

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART
B, C & SUBPART L and PART 90 R,S REQUIREMENT

OF

Applicant: HP Inc.
1501 Page Mill Road Palo Alto, CA 94304 USA

Product Name: Notebook Computer

Brand Name: HP

Model No.: HSN-I22C

Model Difference: N/A

FCC ID: B94HNI22CPD

Report Number: E2/2018/B0066

FCC Rule Part: 2 , 22H & 24E & 27B, C & L & 90 R,S

Issue Date: Jan. 21, 2019

Date of Test: Nov. 26, 2018 ~ Dec. 24, 2018

Date of EUT Received: Nov. 26, 2018

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 ANSI C63.26-2015 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.

Tested By:

Aken Huang

Aken Huang / Engineer

Approved By:

Vito Pei

Vito Pei / Sr. Engineer



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

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/B0066	Rev.00	Initial creation of document	All	Jan. 08, 2019	Yuri Tsai
E2/2018/B0066	Rev.01	Updated description of test mode & occupied bandwidth	18~29, 95~96	Jan. 21, 2019	Yuri Tsai

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Notebook Computer	
Brand Name:	HP	
Model No.:	HSN-I22C	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	7.7Vdc from Rechargeable Li-polymer Battery or 19.5Vdc from AC/DC Adapter	
	Battery:	1. Model No.: HSTNN-DB9C, Supplier: Dynapack 2. Model No.: HSTNN-IB8U, Supplier: Simplo
	Adapter:	Model No.: TPN-CA17, Supplier: Chicony
IMEI:	359324081047400	

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)	
WCDMA / HSPA+ Band II	1852.4 - 1907.6
WCDMA / HSPA+ Band IV	1712.4 - 1752.6
WCDMA / HSPA+ Band V	826.4 - 846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
2	1.4	1850.7 - 1909.3	17	5	706.5 - 713.5
	3	1851.5 - 1908.5		10	709.0 - 711.0
	5	1852.5 - 1907.5	26	1.4	824.7 - 848.3
	10	1855.0 - 1905.0		3	825.5 - 847.5
	15	1857.5 - 1902.5		5	826.5 - 846.5
	20	1860.0 - 1900.0		10	829.0 - 844.0
4	1.4	1710.7 - 1754.3	26 Part90	15	831.5 - 841.5
	3	1711.5 - 1753.5		1.4	814.7 - 823.3
	5	1712.5 - 1752.5		3	815.5 - 822.5
	10	1715.0 - 1780.0		5	816.5 - 821.5
	15	1717.5 - 1747.5		10	819.0
	20	1720.0 - 1745.0		30	5
5	1.4	824.7 - 848.3	10		2310.0
	3	825.5 - 847.5	38	5	2572.5 - 2617.5
	5	826.5 - 846.5		10	2575.0 - 2615.0
	10	829.0 - 844.0		15	2577.5 - 2612.5
7	5	2502.5 - 2567.5		20	2580.0 - 2610.0
	10	2505.0 - 2565.0	41	5	2498.5 - 2687.5
	15	2507.5 - 2562.5		10	2501.0 - 2685.0
	20	2510.0 - 2560.0		15	2503.5 - 2682.5
12	1.4	699.7 - 715.3		20	2506.0 - 2680.0
	3	700.5 - 714.5	66	1.4	1710.7 - 1779.3
	5	701.5 - 713.5		3	1711.5 - 1778.5
	10	704.0 - 711.0		5	1712.5 - 1777.5
13	5	779.5 - 784.5		10	1715.0 - 1775.0
	10	782		15	1717.5 - 1772.5
				20	1720.0 - 1770.0

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Antenna Designation

Vendor	Type	Main / Aux		Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Awan	PIFA	Main	6036B0232901 (ANP6Y-100277)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-0.87
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.9
				WCDMA / HSPA Band V	826.4 ~ 846.6	-1.73
				LTE Band 2	1850 ~ 1910	-0.87
				LTE Band 4	1710 ~ 1755	-0.66
				LTE Band 5	824 ~ 849	-1.73
				LTE Band 7	2503 ~ 2560	-0.53
				LTE Band 12	699 ~ 716	-1.14
				LTE Band 13	777 ~ 787	-0.23
				LTE Band 17	704 ~ 716	-1.14
				LTE Band 26	824 ~ 849	-1.77
				LTE Band 26 Part 90S	814.7 ~ 823.3	-1.79
				LTE Band 30	2305 ~ 2315	1.92
				LTE Band 38	2573 ~ 2610	0.03
	LTE Band 41	2496 ~ 2690	0.03			
	LTE Band 66	1710 ~ 1780	-0.66			
	PIFA	Aux	6036B0232801 (ANP6Y-100278)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.76
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	0.76
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 17	704 ~ 716	N/A
LTE Band 26				824 ~ 849	N/A	
LTE Band 26 Part 90S				814.7 ~ 823.3	-2.6	
LTE Band 30	2305 ~ 2315	1.23				
LTE Band 38	2573 ~ 2610	-0.33				
LTE Band 41	2496 ~ 2690	-0.33				
LTE Band 66	1710 ~ 1780	N/A				

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Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
HONG-BO	PIFA	Main	6036B0233801 (260-27270)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.79
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.27
				WCDMA / HSPA Band V	826.4 ~ 846.6	-2.06
				LTE Band 2	1850 ~ 1910	0.85
				LTE Band 4	1710 ~ 1755	-0.27
				LTE Band 5	824 ~ 849	-2.06
				LTE Band 7	2503 ~ 2560	1.25
				LTE Band 12	699 ~ 716	-0.63
				LTE Band 13	777 ~ 787	0.01
				LTE Band 17	704 ~ 716	-0.97
				LTE Band 26	824 ~ 849	-2.06
				LTE Band 26 Part90S	814.7 ~ 823.3	-2.06
				LTE Band 30	2305 ~ 2315	3.37
				LTE Band 38	2570 ~ 2620	2.96
				LTE Band 41	2496 ~ 2690	2.96
	LTE Band 66	1710 ~ 1780	-0.27			
	PIFA	Aux	6036B0233901 (260-27271)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.97
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	0.97
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 17	704 ~ 716	N/A
				LTE Band 26	824 ~ 849	N/A
LTE Band 26 Part90S				814.7 ~ 823.3	-5.57	
LTE Band 30	2305 ~ 2315	-1.28				
LTE Band 38	2570 ~ 2620	-4.32				
LTE Band 41	2496 ~ 2690	-0.95				
LTE Band 66	1710 ~ 1780	N/A				

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1.3 Type of Emission & Max ERP/EIRP Power Measurement Result:

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	24.53	EIRP	0.284	4M07F9W
HSDPA Band II	24.50	EIRP	0.282	4M07F9W
HSUPA Band II	23.99	EIRP	0.251	4M07F9W
WCDMA Band IV	23.04	EIRP	0.201	4M07F9W
HSDPA Band IV	23.01	EIRP	0.200	4M07F9W
HSUPA Band IV	22.52	EIRP	0.179	4M07F9W
WCDMA Band V	21.82	ERP	0.152	4M06F9W
HSDPA Band V	21.79	ERP	0.151	4M06F9W
HSUPA Band V	21.64	ERP	0.146	4M06F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	23.88	EIRP	0.244	1M10G7D
	1.4	16QAM	23.73	EIRP	0.236	1M11D7W
	3	QPSK	23.48	EIRP	0.223	2M73G7D
	3	16QAM	23.31	EIRP	0.214	2M72D7W
	5	QPSK	23.59	EIRP	0.229	4M53G7D
	5	16QAM	23.44	EIRP	0.221	4M52D7W
	10	QPSK	23.73	EIRP	0.236	9M09G7D
	10	16QAM	23.48	EIRP	0.223	9M10D7W
	15	QPSK	23.84	EIRP	0.242	13M6G7D
	15	16QAM	23.67	EIRP	0.233	13M6D7W
	20	QPSK	23.90	EIRP	0.245	18M1G7D
	20	16QAM	23.70	EIRP	0.234	18M1D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	23.51	EIRP	0.224	1M11G7D
	1.4	16QAM	22.72	EIRP	0.187	1M11D7W
	3	QPSK	23.20	EIRP	0.209	2M74G7D
	3	16QAM	22.19	EIRP	0.166	2M72D7W
	5	QPSK	23.33	EIRP	0.215	4M53G7D
	5	16QAM	22.32	EIRP	0.171	4M53D7W
	10	QPSK	23.37	EIRP	0.217	9M09G7D
	10	16QAM	22.40	EIRP	0.174	9M05D7W
	15	QPSK	23.41	EIRP	0.219	13M5G7D
	15	16QAM	22.53	EIRP	0.179	13M5D7W
	20	QPSK	23.52	EIRP	0.225	18M0G7D
	20	16QAM	22.64	EIRP	0.184	18M0D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	22.24	ERP	0.167	1M11G7D
	1.4	16QAM	21.61	ERP	0.145	1M13D7W
	3	QPSK	22.09	ERP	0.162	2M73G7D
	3	16QAM	21.46	ERP	0.140	2M72D7W
	5	QPSK	22.23	ERP	0.167	4M52G7D
	5	16QAM	21.49	ERP	0.141	4M53D7W
	10	QPSK	22.26	ERP	0.168	9M12G7D
	10	16QAM	21.59	ERP	0.144	9M09D7W
13	5	QPSK	23.44	ERP	0.221	4M54G7D
	5	16QAM	22.86	ERP	0.193	4M54D7W
	10	QPSK	23.44	ERP	0.221	9M05G7D
	10	16QAM	22.80	ERP	0.191	9M00D7W
7	5	QPSK	24.57	EIRP	0.286	4M53G7D
	5	16QAM	23.70	EIRP	0.234	4M53D7W
	10	QPSK	24.50	EIRP	0.282	9M10G7D
	10	16QAM	23.79	EIRP	0.239	9M10D7W
	15	QPSK	24.66	ERP	0.292	13M6G7D
	15	16QAM	23.96	ERP	0.249	13M6D7W
	20	QPSK	24.75	ERP	0.299	18M0G7D
	20	16QAM	24.07	ERP	0.255	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
12	1.4	QPSK	22.20	ERP	0.166	1M12G7D
	1.4	16QAM	21.52	ERP	0.142	1M12D7W
	3	QPSK	21.92	ERP	0.156	2M73G7D
	3	16QAM	21.23	ERP	0.133	2M72D7W
	5	QPSK	22.04	ERP	0.160	4M53G7D
	5	16QAM	21.35	ERP	0.136	4M54D7W
	10	QPSK	22.21	ERP	0.166	9M21G7D
	10	16QAM	21.48	ERP	0.141	9M23D7W
17	5	QPSK	21.94	ERP	0.156	4M54G7D
	5	16QAM	21.37	ERP	0.137	4M54D7W
	10	QPSK	22.11	ERP	0.163	9M10G7D
	10	16QAM	21.43	ERP	0.139	9M13D7W
26	1.4	QPSK	21.33	ERP	0.136	1M11G7D
	1.4	16QAM	20.72	ERP	0.118	1M13D7W
	3	QPSK	21.02	ERP	0.126	2M73G7D
	3	16QAM	20.12	ERP	0.103	2M74D7W
	5	QPSK	21.10	ERP	0.129	4M51G7D
	5	16QAM	20.32	ERP	0.108	4M52D7W
	10	QPSK	21.24	ERP	0.133	9M11G7D
	10	16QAM	20.41	ERP	0.110	9M07D7W
	15	QPSK	21.37	ERP	0.137	13M6G7D
	15	16QAM	20.57	ERP	0.114	13M6D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26 Part90	1.4	QPSK	21.30	ERP	0.135	1M11G7D
	1.4	16QAM	20.68	ERP	0.117	1M12D7W
	3	QPSK	21.23	ERP	0.133	2M74G7D
	3	16QAM	20.26	ERP	0.106	2M73D7W
	5	QPSK	21.21	ERP	0.132	4M53G7D
	5	16QAM	20.30	ERP	0.107	4M52D7W
	10	QPSK	20.97	ERP	0.125	9M12G7D
	10	16QAM	20.42	ERP	0.110	9M12D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
38	5	QPSK	26.39	EIRP	0.436	4M54G7D
	5	16QAM	25.30	EIRP	0.339	4M52D7W
	10	QPSK	26.40	EIRP	0.437	9M04G7D
	10	16QAM	25.35	EIRP	0.343	9M04D7W
	15	QPSK	26.49	EIRP	0.446	13M6G7D
	15	16QAM	25.44	EIRP	0.350	13M6D7W
	20	QPSK	26.64	EIRP	0.461	18M0G7D
	20	16QAM	25.46	EIRP	0.352	18M0D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	26.28	EIRP	0.425	4M52G7D
	5	16QAM	25.21	EIRP	0.332	4M51D7W
	10	QPSK	26.11	EIRP	0.408	9M06G7D
	10	16QAM	25.10	EIRP	0.324	9M04D7W
	15	QPSK	26.20	EIRP	0.417	13M6G7D
	15	16QAM	25.23	EIRP	0.333	13M6D7W
	20	QPSK	26.32	EIRP	0.429	18M0G7D
	20	16QAM	25.39	EIRP	0.346	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
30	5	QPSK	23.11	EIRP	0.205	4M52G7D
	5	16QAM	22.32	EIRP	0.171	4M51D7W
	10	QPSK	23.32	EIRP	0.215	9M03G7D
	10	16QAM	22.36	EIRP	0.172	9M01D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	23.42	EIRP	0.220	1M11G7D
	1.4	16QAM	22.70	EIRP	0.186	1M11D7W
	3	QPSK	23.05	EIRP	0.202	2M72G7D
	3	16QAM	22.21	EIRP	0.166	2M72D7W
	5	QPSK	23.26	EIRP	0.212	4M52G7D
	5	16QAM	22.31	EIRP	0.170	4M52D7W
	10	QPSK	23.30	EIRP	0.214	9M07G7D
	10	16QAM	22.43	EIRP	0.175	9M08D7W
	15	QPSK	23.34	EIRP	0.216	13M5G7D
	15	16QAM	22.51	EIRP	0.178	13M5D7W
	20	QPSK	23.44	EIRP	0.221	18M0G7D
	20	16QAM	22.63	EIRP	0.183	18M0D7W

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1.4 Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90 R,S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

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

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

1.5 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 code 0513)

FCC Registration Numbers are: 735305 / TW0002

1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There were no modifications incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.3 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.

2.4 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.

2.5 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured ANSI C63.26-2015, 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 ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.6 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.

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Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.9	10	13.6
High Band (Above 1 GHz)	4.1	10	14.1

2.7 Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	7.7	692
WCDMA B4		678
WCDMA B5		667
LTE Band 2		835
LTE Band 4		844
LTE Band 5		678
LTE Band 7		691
LTE Band 12		693
LTE Band 13		701
LTE Band 17		636
LTE Band 26		684
LTE Band 26 (Part 90S)		685
LTE Band 30		831
LTE Band 38		828
LTE Band 41		837
LTE Band 66		839

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2.8 Configuration of Tested System

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

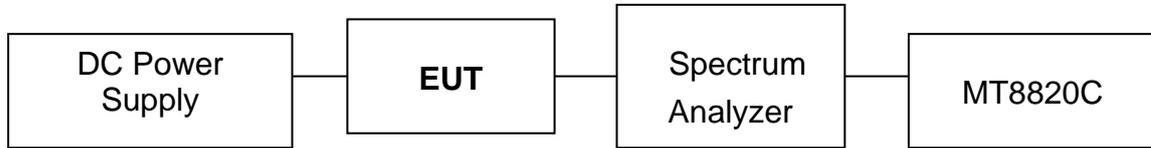
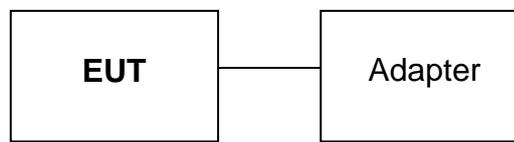


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side



Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6201107337	shielded	Un-shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §90.542 §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691 §90.543	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2) §90.543	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50((B))	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213 §90.539	Frequency Stability	Compliant

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4 DESCRIPTION OF TEST MODES

4.3 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	RADIATED EMISSION
WCDMA/HSPA Band II	E2-plan
WCDMA/HSPA Band V	E2-plan
LTE Band 2	E2-plan
LTE Band 4	E2-plan
LTE Band 5	E2-plan
LTE Band 7	E2-plan
LTE Band 12	E2-plan
LTE Band 13	E2-plan
LTE Band 17	E2-plan
LTE Band 26	E2-plan
LTE Band 26 (Part 90S)	E2-plan
LTE Band 30	E2-plan
LTE Bnad 38	E2-plan
LTE Band 41	E2-plan
LTE Band 66	E2-plan

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538	9262, 9400, 9538	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4233 9262, 9538	WCDMA Band II WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V

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LTE Band 2 MODE

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

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LTE Band 4 MODE

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

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM,	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM,	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM,	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM,	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM,	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 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 AVERAGE 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
CONDUCTED 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	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILA- BLE CHANNEL	TESTED CHANNEL	CHANNEL BAND- WIDTH	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 AVERAGE 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
CONDCU- DETED EMIS- SION	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	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 5 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM,	Full RB
	23230	23230	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 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 AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB/ 49 RB Offest

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LTE Band 26 MODE

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

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STA-BILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM,	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM,	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM,	Full RB
	26740	26740	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVER-AGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 24 RB Offest

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LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM,	Full RB
	27710	27710	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
EMISSION MASK	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0 RB Offest

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 99 RB Offest
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM,	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM,	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM,	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
CONDUCTED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offset
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset
RADIATED EMISSION	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	125 RB, 12 RB Offset

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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM,	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM,	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM,	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM,	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM,	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	16QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	16QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	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

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CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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

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6 MAXMUM OUTPUT POWER

6.3 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.

ERP/EIRP LIMIT

According to FCC §2.1046

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

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

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

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

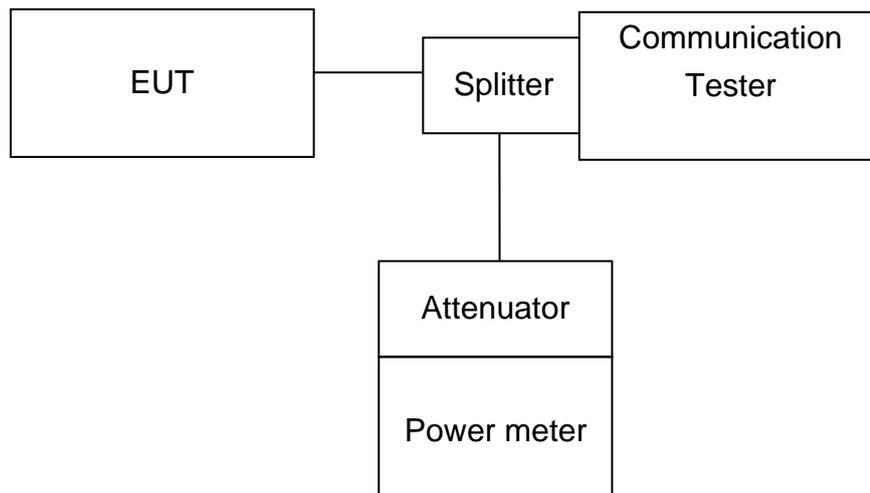
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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

FCC 90.542(a)(7) Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

6.4 Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.5 Measurement Procedure

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

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

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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6.6 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29

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6.7 Measurement Result

RF Conducted Output Power

WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	23.37	0.97	24.34	33.00	-8.66
	1880.0	9400	23.56	0.97	24.53	33.00	-8.47
	1907.6	9538	23.12	0.97	24.09	33.00	-8.91
HSDPA	1852.4	9262	23.21	0.97	24.18	33.00	-8.82
	1880.0	9400	23.53	0.97	24.50	33.00	-8.50
	1907.6	9538	23.09	0.97	24.06	33.00	-8.94
HSUPA	1852.4	9262	22.75	0.97	23.72	33.00	-9.28
	1880.0	9400	23.02	0.97	23.99	33.00	-9.01
	1907.6	9538	22.59	0.97	23.56	33.00	-9.44

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.09	-0.27	22.82	30.00	-7.18
	1732.6	1413	23.12	-0.27	22.85	30.00	-7.15
	1752.6	1513	23.31	-0.27	23.04	30.00	-6.96
HSDPA	1712.4	1312	23.04	-0.27	22.77	30.00	-7.23
	1732.6	1413	23.03	-0.27	22.76	30.00	-7.24
	1752.6	1513	23.28	-0.27	23.01	30.00	-6.99
HSUPA	1712.4	1312	22.56	-0.27	22.29	30.00	-7.71
	1732.6	1413	22.61	-0.27	22.34	30.00	-7.66
	1752.6	1513	22.79	-0.27	22.52	30.00	-7.48

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.55	-1.73	21.82	38.50	-16.68
	836.6	4183	23.38	-1.73	21.65	38.50	-16.85
	846.6	4233	23.43	-1.73	21.70	38.50	-16.80
HSDPA	826.4	4132	23.52	-1.73	21.79	38.50	-16.71
	836.6	4183	23.34	-1.73	21.61	38.50	-16.89
	846.6	4233	23.42	-1.73	21.69	38.50	-16.81
HSUPA	826.4	4132	22.99	-1.73	21.26	38.50	-17.24
	836.6	4183	23.37	-1.73	21.64	38.50	-16.86
	846.6	4233	22.95	-1.73	21.22	38.50	-17.28

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	23.21	23.53	23.09
	2	22.26	22.59	22.06
	3	21.84	22.08	21.61
	4	21.59	21.83	21.35

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	23.04	23.03	23.28
	2	22.03	22.15	22.36
	3	21.54	21.65	21.87
	4	21.29	21.43	21.58

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	23.52	23.34	23.42
	2	22.55	22.88	22.51
	3	22.04	22.43	22.02
	4	21.79	22.18	21.76

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	22.75	23.02	22.59
	2	23.26	23.49	23.09
	3	21.75	21.96	21.55
	4	23.26	23.51	23.06
	5	22.28	22.49	22.08

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	22.56	22.61	22.79
	2	23.06	23.09	23.29
	3	21.55	21.61	21.76
	4	23.07	23.09	23.28
	5	22.09	22.11	22.28

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	22.99	23.37	22.95
	2	23.49	23.35	23.42
	3	21.99	22.41	21.97
	4	23.47	23.35	23.37
	5	22.49	22.88	22.41

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key "UE Power Control" and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key "minimum power" then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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LTE Result:

Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	22.64	23.61	33	-9.39
				1	5	22.62	23.59	33	-9.41
				3	2	22.55	23.52	33	-9.48
				6	0	22.06	23.03	33	-9.97
	18900	1880	QPSK	1	0	22.91	23.88	33	-9.12
				1	5	22.91	23.88	33	-9.12
				3	2	22.87	23.84	33	-9.16
				6	0	22.37	23.34	33	-9.66
	19193	1909.3	QPSK	1	0	22.19	23.16	33	-9.84
				1	5	22.18	23.15	33	-9.85
				3	2	22.09	23.06	33	-9.94
				6	0	21.55	22.52	33	-10.48
	18607	1850.7	16QAM	1	0	22.22	23.19	33	-9.81
				1	5	22.26	23.23	33	-9.77
				3	2	22.12	23.09	33	-9.91
				6	0	21.11	22.08	33	-10.92
	18900	1880	16QAM	1	0	22.62	23.59	33	-9.41
				1	5	22.76	23.73	33	-9.27
				3	2	22.46	23.43	33	-9.57
				6	0	21.43	22.40	33	-10.6
	19193	1909.3	16QAM	1	0	21.83	22.80	33	-10.2
				1	5	21.78	22.75	33	-10.25
				3	2	21.54	22.51	33	-10.49
				6	0	20.59	21.56	33	-11.44

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	22.09	23.06	33	-9.94
				1	14	22.51	23.48	33	-9.52
				8	4	21.69	22.66	33	-10.34
				15	0	21.83	22.80	33	-10.2
	18900	1880	QPSK	1	0	22.49	23.46	33	-9.54
				1	14	22.08	23.05	33	-9.95
				8	4	22.12	23.09	33	-9.91
				15	0	22.02	22.99	33	-10.01
	19185	1908.5	QPSK	1	0	22.06	23.03	33	-9.97
				1	14	22.00	22.97	33	-10.03
				8	4	21.59	22.56	33	-10.44
				15	0	22.02	22.99	33	-10.01
	18615	1851.5	16QAM	1	0	21.92	22.89	33	-10.11
				1	14	22.11	23.08	33	-9.92
				8	4	20.63	21.60	33	-11.4
				15	0	20.70	21.67	33	-11.33
	18900	1880	16QAM	1	0	22.34	23.31	33	-9.69
				1	14	21.93	22.90	33	-10.1
				8	4	20.82	21.79	33	-11.21
				15	0	21.08	22.05	33	-10.95
	19185	1908.5	16QAM	1	0	21.80	22.77	33	-10.23
				1	14	21.61	22.58	33	-10.42
				8	4	20.56	21.53	33	-11.47
				15	0	20.82	21.79	33	-11.21

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	22.22	23.19	33	-9.81
				1	24	22.62	23.59	33	-9.41
				12	6	21.87	22.84	33	-10.16
				25	0	21.95	22.92	33	-10.08
	18900	1880	QPSK	1	0	22.60	23.57	33	-9.43
				1	24	22.10	23.07	33	-9.93
				12	6	22.14	23.11	33	-9.89
				25	0	22.17	23.14	33	-9.86
	19175	1907.5	QPSK	1	0	22.19	23.16	33	-9.84
				1	24	22.12	23.09	33	-9.91
				12	6	21.75	22.72	33	-10.28
				25	0	22.04	23.01	33	-9.99
	18625	1852.5	16QAM	1	0	22.12	23.09	33	-9.91
				1	24	22.24	23.21	33	-9.79
				12	6	20.81	21.78	33	-11.22
				25	0	20.86	21.83	33	-11.17
	18900	1880	16QAM	1	0	22.47	23.44	33	-9.56
				1	24	22.14	23.11	33	-9.89
				12	6	20.92	21.89	33	-11.11
				25	0	21.17	22.14	33	-10.86
19175	1907.5	16QAM	1	0	21.87	22.84	33	-10.16	
			1	24	21.78	22.75	33	-10.25	
			12	6	20.73	21.70	33	-11.3	
			25	0	20.95	21.92	33	-11.08	

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	22.42	23.39	33	-9.61
				1	49	22.71	23.68	33	-9.32
				25	12	21.90	22.87	33	-10.13
				50	0	22.09	23.06	33	-9.94
	18900	1880	QPSK	1	0	22.76	23.73	33	-9.27
				1	49	22.27	23.24	33	-9.76
				25	12	22.26	23.23	33	-9.77
				50	0	22.21	23.18	33	-9.82
	19150	1905	QPSK	1	0	22.31	23.28	33	-9.72
				1	49	22.17	23.14	33	-9.86
				25	12	21.88	22.85	33	-10.15
				50	0	22.15	23.12	33	-9.88
	18650	1855	16QAM	1	0	22.32	23.29	33	-9.71
				1	49	22.42	23.39	33	-9.61
				25	12	21.00	21.97	33	-11.03
				50	0	20.98	21.95	33	-11.05
	18900	1880	16QAM	1	0	22.51	23.48	33	-9.52
				1	49	22.23	23.20	33	-9.8
				25	12	21.04	22.01	33	-10.99
				50	0	21.37	22.34	33	-10.66
19150	1905	16QAM	1	0	22.03	23.00	33	-10	
			1	49	21.90	22.87	33	-10.13	
			25	12	20.90	21.87	33	-11.13	
			50	0	21.12	22.09	33	-10.91	

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	22.59	23.56	33	-9.44
				1	74	22.75	23.72	33	-9.28
				36	18	22.10	23.07	33	-9.93
				75	0	22.21	23.18	33	-9.82
	18900	1880	QPSK	1	0	22.87	23.84	33	-9.16
				1	74	22.47	23.44	33	-9.56
				36	18	22.35	23.32	33	-9.68
				75	0	22.26	23.23	33	-9.77
	19125	1902.5	QPSK	1	0	22.37	23.34	33	-9.66
				1	74	22.10	23.07	33	-9.93
				36	18	22.03	23.00	33	-10
				75	0	22.25	23.22	33	-9.78
	18675	1857.5	16QAM	1	0	22.39	23.36	33	-9.64
				1	74	22.63	23.60	33	-9.4
				36	18	21.04	22.01	33	-10.99
				75	0	21.17	22.14	33	-10.86
	18900	1880	16QAM	1	0	22.70	23.67	33	-9.33
				1	74	22.26	23.23	33	-9.77
				36	18	21.19	22.16	33	-10.84
				75	0	21.43	22.40	33	-10.6
	19125	1902.5	16QAM	1	0	22.20	23.17	33	-9.83
				1	74	21.93	22.90	33	-10.1
				36	18	21.04	22.01	33	-10.99
				75	0	21.20	22.17	33	-10.83

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	22.93	23.90	33	-9.1
				1	99	22.69	23.66	33	-9.34
				50	25	22.13	23.10	33	-9.9
				100	0	22.30	23.27	33	-9.73
	18900	1880	QPSK	1	0	22.63	23.60	33	-9.4
				1	99	22.92	23.89	33	-9.11
				50	25	22.37	23.34	33	-9.66
				100	0	22.24	23.21	33	-9.79
	19100	1900	QPSK	1	0	22.23	23.20	33	-9.8
				1	99	22.52	23.49	33	-9.51
				50	25	22.12	23.09	33	-9.91
				100	0	22.38	23.35	33	-9.65
	18700	1860	16QAM	1	0	22.44	23.41	33	-9.59
				1	99	22.68	23.65	33	-9.35
				50	25	21.16	22.13	33	-10.87
				100	0	21.30	22.27	33	-10.73
	18900	1880	16QAM	1	0	22.73	23.70	33	-9.3
				1	99	22.30	23.27	33	-9.73
				50	25	21.37	22.34	33	-10.66
				100	0	21.46	22.43	33	-10.57
19100	1900	16QAM	1	0	22.26	23.23	33	-9.77	
			1	99	21.97	22.94	33	-10.06	
			50	25	21.14	22.11	33	-10.89	
			100	0	21.36	22.33	33	-10.67	

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.49	23.22	30	-6.78
				1	5	23.51	23.24	30	-6.76
				3	2	22.98	22.71	30	-7.29
				6	0	22.50	22.23	30	-7.77
	20175	1732.5	QPSK	1	0	23.32	23.05	30	-6.95
				1	5	23.31	23.04	30	-6.96
				3	2	22.93	22.66	30	-7.34
				6	0	22.35	22.08	30	-7.92
	20393	1754.3	QPSK	1	0	23.76	23.49	30	-6.51
				1	5	23.78	23.51	30	-6.49
				3	2	22.95	22.68	30	-7.32
				6	0	22.80	22.53	30	-7.47
	19957	1710.7	16QAM	1	0	22.75	22.48	30	-7.52
				1	5	22.76	22.49	30	-7.51
				3	2	22.51	22.24	30	-7.76
				6	0	21.58	21.31	30	-8.69
	20175	1732.5	16QAM	1	0	22.46	22.19	30	-7.81
				1	5	22.61	22.34	30	-7.66
				3	2	22.40	22.13	30	-7.87
				6	0	21.42	21.15	30	-8.85
	20393	1754.3	16QAM	1	0	22.96	22.69	30	-7.31
				1	5	22.99	22.72	30	-7.28
				3	2	22.86	22.59	30	-7.41
				6	0	21.79	21.52	30	-8.48

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.02	22.75	30	-7.25
				1	14	22.89	22.62	30	-7.38
				8	4	22.30	22.03	30	-7.97
				15	0	22.24	21.97	30	-8.03
	20175	1732.5	QPSK	1	0	23.07	22.80	30	-7.2
				1	14	23.09	22.82	30	-7.18
				8	4	21.92	21.65	30	-8.35
				15	0	22.17	21.90	30	-8.1
	20385	1753.5	QPSK	1	0	23.23	22.96	30	-7.04
				1	14	23.47	23.20	30	-6.8
				8	4	22.05	21.78	30	-8.22
				15	0	22.35	22.08	30	-7.92
	19965	1711.5	16QAM	1	0	22.43	22.16	30	-7.84
				1	14	22.28	22.01	30	-7.99
				8	4	21.21	20.94	30	-9.06
				15	0	21.35	21.08	30	-8.92
	20175	1732.5	16QAM	1	0	22.46	22.19	30	-7.81
				1	14	22.18	21.91	30	-8.09
				8	4	21.15	20.88	30	-9.12
				15	0	21.25	20.98	30	-9.02
20385	1753.5	16QAM	1	0	22.17	21.90	30	-8.1	
			1	14	22.43	22.16	30	-7.84	
			8	4	21.04	20.77	30	-9.23	
			15	0	21.46	21.19	30	-8.81	

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.21	22.94	30	-7.06
				1	24	22.98	22.71	30	-7.29
				12	6	22.44	22.17	30	-7.83
				25	0	22.45	22.18	30	-7.82
	20175	1732.5	QPSK	1	0	23.26	22.99	30	-7.01
				1	24	23.20	22.93	30	-7.07
				12	6	22.12	21.85	30	-8.15
				25	0	22.30	22.03	30	-7.97
	20375	1752.5	QPSK	1	0	23.25	22.98	30	-7.02
				1	24	23.60	23.33	30	-6.67
				12	6	22.25	21.98	30	-8.02
				25	0	22.54	22.27	30	-7.73
	19975	1712.5	16QAM	1	0	22.47	22.20	30	-7.8
				1	24	22.49	22.22	30	-7.78
				12	6	21.39	21.12	30	-8.88
				25	0	21.44	21.17	30	-8.83
	20175	1732.5	16QAM	1	0	22.59	22.32	30	-7.68
				1	24	22.30	22.03	30	-7.97
				12	6	21.22	20.95	30	-9.05
				25	0	21.27	21.00	30	-9
20375	1752.5	16QAM	1	0	22.35	22.08	30	-7.92	
			1	24	22.59	22.32	30	-7.68	
			12	6	21.14	20.87	30	-9.13	
			25	0	21.48	21.21	30	-8.79	

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.39	23.12	30	-6.88
				1	49	23.07	22.80	30	-7.2
				25	12	22.50	22.23	30	-7.77
				50	0	22.60	22.33	30	-7.67
	20175	1732.5	QPSK	1	0	23.34	23.07	30	-6.93
				1	49	23.36	23.09	30	-6.91
				25	12	22.24	21.97	30	-8.03
				50	0	22.40	22.13	30	-7.87
	20375	1750	QPSK	1	0	23.29	23.02	30	-6.98
				1	49	23.64	23.37	30	-6.63
				25	12	22.27	22.00	30	-8
				50	0	22.67	22.40	30	-7.6
	20000	1715	16QAM	1	0	22.67	22.40	30	-7.6
				1	49	22.51	22.24	30	-7.76
				25	12	21.41	21.14	30	-8.86
				50	0	21.52	21.25	30	-8.75
	20175	1732.5	16QAM	1	0	22.62	22.35	30	-7.65
				1	49	22.33	22.06	30	-7.94
				25	12	21.31	21.04	30	-8.96
				50	0	21.29	21.02	30	-8.98
20375	1750	16QAM	1	0	22.42	22.15	30	-7.85	
			1	49	22.64	22.37	30	-7.63	
			25	12	21.24	20.97	30	-9.03	
			50	0	21.60	21.33	30	-8.67	

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.43	23.16	30	-6.84
				1	74	23.18	22.91	30	-7.09
				36	18	22.61	22.34	30	-7.66
				75	0	22.69	22.42	30	-7.58
	20175	1732.5	QPSK	1	0	23.36	23.09	30	-6.91
				1	74	23.40	23.13	30	-6.87
				36	18	22.40	22.13	30	-7.87
				75	0	22.51	22.24	30	-7.76
	20325	1747.5	QPSK	1	0	23.36	23.09	30	-6.91
				1	74	23.68	23.41	30	-6.59
				36	18	22.42	22.15	30	-7.85
				75	0	22.72	22.45	30	-7.55
	20025	1717.5	16QAM	1	0	22.71	22.44	30	-7.56
				1	74	22.55	22.28	30	-7.72
				36	18	21.62	21.35	30	-8.65
				75	0	21.66	21.39	30	-8.61
	20175	1732.5	16QAM	1	0	22.80	22.53	30	-7.47
				1	74	22.38	22.11	30	-7.89
				36	18	21.37	21.10	30	-8.9
				75	0	21.42	21.15	30	-8.85
20325	1747.5	16QAM	1	0	22.60	22.33	30	-7.67	
			1	74	22.74	22.47	30	-7.53	
			36	18	21.42	21.15	30	-8.85	
			75	0	21.67	21.40	30	-8.6	

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.37	23.10	30	-6.9
				1	99	23.62	23.35	30	-6.65
				50	25	22.65	22.38	30	-7.62
				100	0	22.75	22.48	30	-7.52
	20175	1732.5	QPSK	1	0	23.45	23.18	30	-6.82
				1	99	23.55	23.28	30	-6.72
				50	25	22.44	22.17	30	-7.83
				100	0	22.55	22.28	30	-7.72
	20300	1745	QPSK	1	0	23.79	23.52	30	-6.48
				1	99	23.45	23.18	30	-6.82
				50	25	22.59	22.32	30	-7.68
				100	0	22.77	22.50	30	-7.5
	20050	1720	16QAM	1	0	22.89	22.62	30	-7.38
				1	99	22.65	22.38	30	-7.62
				50	25	21.68	21.41	30	-8.59
				100	0	21.76	21.49	30	-8.51
	20175	1732.5	16QAM	1	0	22.83	22.56	30	-7.44
				1	99	22.55	22.28	30	-7.72
				50	25	21.48	21.21	30	-8.79
				100	0	21.59	21.32	30	-8.68
20300	1745	16QAM	1	0	22.62	22.35	30	-7.65	
			1	99	22.91	22.64	30	-7.36	
			50	25	21.61	21.34	30	-8.66	
			100	0	21.76	21.49	30	-8.51	

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.89	20.01	22.16	38.45	-16.29
				1	5	23.84	19.96	22.11	38.45	-16.34
				3	2	23.95	20.07	22.22	38.45	-16.23
				6	0	23.10	19.22	21.37	38.45	-17.08
	20525	836.5	QPSK	1	0	23.90	20.02	22.17	38.45	-16.28
				1	5	23.90	20.02	22.17	38.45	-16.28
				3	2	23.90	20.02	22.17	38.45	-16.28
				6	0	22.97	19.09	21.24	38.45	-17.21
	20643	848.3	QPSK	1	0	23.97	20.09	22.24	38.45	-16.21
				1	5	23.96	20.08	22.23	38.45	-16.22
				3	2	23.96	20.08	22.23	38.45	-16.22
				6	0	23.01	19.13	21.28	38.45	-17.17
	20407	824.7	16QAM	1	0	23.34	19.46	21.61	38.45	-16.84
				1	5	23.30	19.42	21.57	38.45	-16.88
				3	2	22.76	18.88	21.03	38.45	-17.42
				6	0	22.20	18.32	20.47	38.45	-17.98
	20525	836.5	16QAM	1	0	23.18	19.30	21.45	38.45	-17
				1	5	23.20	19.32	21.47	38.45	-16.98
				3	2	22.68	18.80	20.95	38.45	-17.5
				6	0	22.02	18.14	20.29	38.45	-18.16
	20643	848.3	16QAM	1	0	23.21	19.33	21.48	38.45	-16.97
				1	5	23.27	19.39	21.54	38.45	-16.91
				3	2	22.70	18.82	20.97	38.45	-17.48
				6	0	22.07	18.19	20.34	38.45	-18.11

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.80	19.92	22.07	38.45	-16.38
				1	14	23.68	19.80	21.95	38.45	-16.5
				8	4	22.78	18.90	21.05	38.45	-17.4
				15	0	22.86	18.98	21.13	38.45	-17.32
	20525	836.5	QPSK	1	0	23.72	19.84	21.99	38.45	-16.46
				1	14	23.64	19.76	21.91	38.45	-16.54
				8	4	22.75	18.87	21.02	38.45	-17.43
				15	0	22.96	19.08	21.23	38.45	-17.22
	20635	847.5	QPSK	1	0	23.68	19.80	21.95	38.45	-16.5
				1	14	23.82	19.94	22.09	38.45	-16.36
				8	4	22.82	18.94	21.09	38.45	-17.36
				15	0	22.75	18.87	21.02	38.45	-17.43
	20415	825.5	16QAM	1	0	23.03	19.15	21.30	38.45	-17.15
				1	14	23.07	19.19	21.34	38.45	-17.11
				8	4	21.82	17.94	20.09	38.45	-18.36
				15	0	21.94	18.06	20.21	38.45	-18.24
	20525	836.5	16QAM	1	0	22.97	19.09	21.24	38.45	-17.21
				1	14	22.90	19.02	21.17	38.45	-17.28
				8	4	21.88	18.00	20.15	38.45	-18.3
				15	0	21.94	18.06	20.21	38.45	-18.24
	20635	847.5	16QAM	1	0	23.19	19.31	21.46	38.45	-16.99
				1	14	23.07	19.19	21.34	38.45	-17.11
				8	4	21.89	18.01	20.16	38.45	-18.29
				15	0	21.86	17.98	20.13	38.45	-18.32

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.84	19.96	22.11	38.45	-16.34
				1	24	23.87	19.99	22.14	38.45	-16.31
				12	6	22.96	19.08	21.23	38.45	-17.22
				25	0	23.01	19.13	21.28	38.45	-17.17
	20525	836.5	QPSK	1	0	23.88	20.00	22.15	38.45	-16.3
				1	24	23.84	19.96	22.11	38.45	-16.34
				12	6	22.94	19.06	21.21	38.45	-17.24
				25	0	23.00	19.12	21.27	38.45	-17.18
	20625	846.5	QPSK	1	0	23.87	19.99	22.14	38.45	-16.31
				1	24	23.96	20.08	22.23	38.45	-16.22
				12	6	22.98	19.10	21.25	38.45	-17.2
				25	0	22.91	19.03	21.18	38.45	-17.27
	20425	826.5	16QAM	1	0	23.18	19.30	21.45	38.45	-17
				1	24	23.15	19.27	21.42	38.45	-17.03
				12	6	21.97	18.09	20.24	38.45	-18.21
				25	0	22.08	18.20	20.35	38.45	-18.1
	20525	836.5	16QAM	1	0	23.11	19.23	21.38	38.45	-17.07
				1	24	23.02	19.14	21.29	38.45	-17.16
				12	6	22.00	18.12	20.27	38.45	-18.18
				25	0	22.05	18.17	20.32	38.45	-18.13
	20625	846.5	16QAM	1	0	23.22	19.34	21.49	38.45	-16.96
				1	24	23.16	19.28	21.43	38.45	-17.02
				12	6	21.96	18.08	20.23	38.45	-18.22
				25	0	21.96	18.08	20.23	38.45	-18.22

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.99	20.11	22.26	38.45	-16.19
				1	49	23.96	20.08	22.23	38.45	-16.22
				25	12	23.03	19.15	21.30	38.45	-17.15
				50	0	23.06	19.18	21.33	38.45	-17.12
	20525	836.5	QPSK	1	0	23.98	20.10	22.25	38.45	-16.2
				1	49	23.93	20.05	22.20	38.45	-16.25
				25	12	23.04	19.16	21.31	38.45	-17.14
				50	0	23.04	19.16	21.31	38.45	-17.14
	20600	844	QPSK	1	0	23.97	20.09	22.24	38.45	-16.21
				1	49	23.95	20.07	22.22	38.45	-16.23
				25	12	23.00	19.12	21.27	38.45	-17.18
				50	0	23.11	19.23	21.38	38.45	-17.07
	20450	829	16QAM	1	0	23.26	19.38	21.53	38.45	-16.92
				1	49	23.29	19.41	21.56	38.45	-16.89
				25	12	22.10	18.22	20.37	38.45	-18.08
				50	0	22.14	18.26	20.41	38.45	-18.04
	20525	836.5	16QAM	1	0	23.26	19.38	21.53	38.45	-16.92
				1	49	23.18	19.30	21.45	38.45	-17
				25	12	22.11	18.23	20.38	38.45	-18.07
				50	0	22.13	18.25	20.40	38.45	-18.05
	20600	844	16QAM	1	0	23.27	19.39	21.54	38.45	-16.91
				1	49	23.32	19.44	21.59	38.45	-16.86
				25	12	22.06	18.18	20.33	38.45	-18.12
				50	0	22.15	18.27	20.42	38.45	-18.03

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Antenna gain (dBi) 1.25

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	23.22	24.47	33	-8.53
				1	24	23.32	24.57	33	-8.43
				12	6	22.38	23.63	33	-9.37
				25	0	22.39	23.64	33	-9.36
	21100	2535	QPSK	1	0	23.11	24.36	33	-8.64
				1	24	23.18	24.43	33	-8.57
				12	6	22.21	23.46	33	-9.54
				25	0	22.22	23.47	33	-9.53
	21375	2567.5	QPSK	1	0	23.14	24.39	33	-8.61
				1	24	23.04	24.29	33	-8.71
				12	6	22.23	23.48	33	-9.52
				25	0	22.26	23.51	33	-9.49
	20775	2502.5	16QAM	1	0	22.42	23.67	33	-9.33
				1	24	22.45	23.70	33	-9.3
				12	6	21.42	22.67	33	-10.33
				25	0	21.41	22.66	33	-10.34
	21100	2535	16QAM	1	0	22.24	23.49	33	-9.51
				1	24	22.29	23.54	33	-9.46
				12	6	21.30	22.55	33	-10.45
				25	0	21.32	22.57	33	-10.43
21375	2567.5	16QAM	1	0	22.25	23.50	33	-9.5	
			1	24	22.28	23.53	33	-9.47	
			12	6	21.28	22.53	33	-10.47	
			25	0	21.26	22.51	33	-10.49	

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Antenna gain (dBi) 1.25

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	23.24	24.49	33	-8.51
				1	49	23.25	24.50	33	-8.5
				25	12	22.15	23.40	33	-9.6
				50	0	22.33	23.58	33	-9.42
	21100	2535	QPSK	1	0	22.86	24.11	33	-8.89
				1	49	23.20	24.45	33	-8.55
				25	12	22.09	23.34	33	-9.66
				50	0	22.27	23.52	33	-9.48
	21350	2565	QPSK	1	0	22.83	24.08	33	-8.92
				1	49	22.99	24.24	33	-8.76
				25	12	21.95	23.20	33	-9.8
				50	0	22.21	23.46	33	-9.54
	20800	2505	16QAM	1	0	22.31	23.56	33	-9.44
				1	49	22.54	23.79	33	-9.21
				25	12	21.27	22.52	33	-10.48
				50	0	21.34	22.59	33	-10.41
	21100	2535	16QAM	1	0	22.38	23.63	33	-9.37
				1	49	22.52	23.77	33	-9.23
				25	12	21.06	22.31	33	-10.69
				50	0	21.14	22.39	33	-10.61
21350	2565	16QAM	1	0	21.98	23.23	33	-9.77	
			1	49	22.36	23.61	33	-9.39	
			25	12	21.11	22.36	33	-10.64	
			50	0	21.26	22.51	33	-10.49	

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Antenna gain (dBi) 1.25

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	23.31	24.56	33	-8.44
				1	74	23.41	24.66	33	-8.34
				36	18	22.29	23.54	33	-9.46
				75	0	22.54	23.79	33	-9.21
	21100	2535	QPSK	1	0	23.00	24.25	33	-8.75
				1	74	23.39	24.64	33	-8.36
				36	18	22.16	23.41	33	-9.59
				75	0	22.37	23.62	33	-9.38
	21375	2562.5	QPSK	1	0	22.99	24.24	33	-8.76
				1	74	23.15	24.40	33	-8.6
				36	18	22.07	23.32	33	-9.68
				75	0	22.26	23.51	33	-9.49
	20825	2507.5	16QAM	1	0	22.43	23.68	33	-9.32
				1	74	22.71	23.96	33	-9.04
				36	18	21.41	22.66	33	-10.34
				75	0	21.55	22.80	33	-10.2
	21100	2535	16QAM	1	0	22.42	23.67	33	-9.33
				1	74	22.61	23.86	33	-9.14
				36	18	21.22	22.47	33	-10.53
				75	0	21.35	22.60	33	-10.4
21375	2562.5	16QAM	1	0	22.15	23.40	33	-9.6	
			1	74	22.38	23.63	33	-9.37	
			36	18	21.19	22.44	33	-10.56	
			75	0	21.26	22.51	33	-10.49	

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Antenna gain (dBi) 1.25

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	23.50	24.75	33	-8.25
				1	99	23.37	24.62	33	-8.38
				50	25	22.45	23.70	33	-9.3
				100	0	22.57	23.82	33	-9.18
	21100	2535	QPSK	1	0	23.47	24.72	33	-8.28
				1	99	23.19	24.44	33	-8.56
				50	25	22.34	23.59	33	-9.41
				100	0	22.51	23.76	33	-9.24
	21350	2560	QPSK	1	0	23.23	24.48	33	-8.52
				1	99	23.12	24.37	33	-8.63
				50	25	22.23	23.48	33	-9.52
				100	0	22.37	23.62	33	-9.38
	20850	2510	16QAM	1	0	22.60	23.85	33	-9.15
				1	99	22.82	24.07	33	-8.93
				50	25	21.47	22.72	33	-10.28
				100	0	21.57	22.82	33	-10.18
	21100	2535	16QAM	1	0	22.44	23.69	33	-9.31
				1	99	22.71	23.96	33	-9.04
				50	25	21.39	22.64	33	-10.36
				100	0	21.51	22.76	33	-10.24
21350	2560	16QAM	1	0	22.35	23.60	33	-9.4	
			1	99	22.43	23.68	33	-9.32	
			50	25	21.24	22.49	33	-10.51	
			100	0	21.35	22.60	33	-10.4	

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.74	19.96	22.11	34.77	-12.66
				1	5	22.79	20.01	22.16	34.77	-12.61
				3	2	22.80	20.02	22.17	34.77	-12.6
				6	0	21.79	19.01	21.16	34.77	-13.61
	23095	707.5	QPSK	1	0	22.75	19.97	22.12	34.77	-12.65
				1	5	22.80	20.02	22.17	34.77	-12.6
				3	2	22.83	20.05	22.20	34.77	-12.57
				6	0	21.85	19.07	21.22	34.77	-13.55
	23173	715.5	QPSK	1	0	22.76	19.98	22.13	34.77	-12.64
				1	5	22.77	19.99	22.14	34.77	-12.63
				3	2	22.71	19.93	22.08	34.77	-12.69
				6	0	21.83	19.05	21.20	34.77	-13.57
	23017	699.7	16QAM	1	0	22.08	19.30	21.45	34.77	-13.32
				1	5	22.09	19.31	21.46	34.77	-13.31
				3	2	21.84	19.06	21.21	34.77	-13.56
				6	0	20.87	18.09	20.24	34.77	-14.53
	23095	707.5	16QAM	1	0	22.08	19.30	21.45	34.77	-13.32
				1	5	22.02	19.24	21.39	34.77	-13.38
				3	2	21.86	19.08	21.23	34.77	-13.54
				6	0	20.93	18.15	20.30	34.77	-14.47
	23173	715.5	16QAM	1	0	22.15	19.37	21.52	34.77	-13.25
				1	5	22.10	19.32	21.47	34.77	-13.3
				3	2	21.87	19.09	21.24	34.77	-13.53
				6	0	20.90	18.12	20.27	34.77	-14.5

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.38	19.60	21.75	34.77	-13.02
				1	14	22.50	19.72	21.87	34.77	-12.9
				8	4	21.63	18.85	21.00	34.77	-13.77
				15	0	21.62	18.84	20.99	34.77	-13.78
	23095	707.5	QPSK	1	0	22.34	19.56	21.71	34.77	-13.06
				1	14	22.55	19.77	21.92	34.77	-12.85
				8	4	21.56	18.78	20.93	34.77	-13.84
				15	0	21.57	18.79	20.94	34.77	-13.83
	23165	714.5	QPSK	1	0	22.46	19.68	21.83	34.77	-12.94
				1	14	22.47	19.69	21.84	34.77	-12.93
				8	4	21.56	18.78	20.93	34.77	-13.84
				15	0	21.70	18.92	21.07	34.77	-13.7
	23025	700.5	16QAM	1	0	21.56	18.78	20.93	34.77	-13.84
				1	14	21.75	18.97	21.12	34.77	-13.65
				8	4	20.52	17.74	19.89	34.77	-14.88
				15	0	20.70	17.92	20.07	34.77	-14.7
	23095	707.5	16QAM	1	0	21.62	18.84	20.99	34.77	-13.78
				1	14	21.86	19.08	21.23	34.77	-13.54
				8	4	20.85	18.07	20.22	34.77	-14.55
				15	0	20.72	17.94	20.09	34.77	-14.68
	23165	714.5	16QAM	1	0	21.79	19.01	21.16	34.77	-13.61
				1	14	21.84	19.06	21.21	34.77	-13.56
				8	4	20.76	17.98	20.13	34.77	-14.64
				15	0	20.69	17.91	20.06	34.77	-14.71

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.55	19.77	21.92	34.77	-12.85
				1	24	22.66	19.88	22.03	34.77	-12.74
				12	6	21.73	18.95	21.10	34.77	-13.67
				25	0	21.80	19.02	21.17	34.77	-13.6
	23095	707.5	QPSK	1	0	22.51	19.73	21.88	34.77	-12.89
				1	24	22.67	19.89	22.04	34.77	-12.73
				12	6	21.75	18.97	21.12	34.77	-13.65
				25	0	21.73	18.95	21.10	34.77	-13.67
	23155	713.5	QPSK	1	0	22.50	19.72	21.87	34.77	-12.9
				1	24	22.64	19.86	22.01	34.77	-12.76
				12	6	21.77	18.99	21.14	34.77	-13.63
				25	0	21.87	19.09	21.24	34.77	-13.53
	23035	701.5	16QAM	1	0	21.70	18.92	21.07	34.77	-13.7
				1	24	21.93	19.15	21.30	34.77	-13.47
				12	6	20.67	17.89	20.04	34.77	-14.73
				25	0	20.87	18.09	20.24	34.77	-14.53
	23095	707.5	16QAM	1	0	21.82	19.04	21.19	34.77	-13.58
				1	24	21.98	19.20	21.35	34.77	-13.42
				12	6	20.94	18.16	20.31	34.77	-14.46
				25	0	20.82	18.04	20.19	34.77	-14.58
23155	713.5	16QAM	1	0	21.89	19.11	21.26	34.77	-13.51	
			1	24	21.90	19.12	21.27	34.77	-13.5	
			12	6	20.84	18.06	20.21	34.77	-14.56	
			25	0	20.84	18.06	20.21	34.77	-14.56	

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	22.72	19.94	22.09	34.77	-12.68
				1	49	22.59	19.81	21.96	34.77	-12.81
				25	12	21.82	19.04	21.19	34.77	-13.58
				50	0	21.88	19.10	21.25	34.77	-13.52
	23095	707.5	QPSK	1	0	22.84	20.06	22.21	34.77	-12.56
				1	49	22.66	19.88	22.03	34.77	-12.74
				25	12	21.81	19.03	21.18	34.77	-13.59
				50	0	21.93	19.15	21.30	34.77	-13.47
	23130	711	QPSK	1	0	22.77	19.99	22.14	34.77	-12.63
				1	49	22.67	19.89	22.04	34.77	-12.73
				25	12	21.83	19.05	21.20	34.77	-13.57
				50	0	21.98	19.20	21.35	34.77	-13.42
	23060	704	16QAM	1	0	21.89	19.11	21.26	34.77	-13.51
				1	49	22.01	19.23	21.38	34.77	-13.39
				25	12	20.85	18.07	20.22	34.77	-14.55
				50	0	21.02	18.24	20.39	34.77	-14.38
	23095	707.5	16QAM	1	0	22.01	19.23	21.38	34.77	-13.39
				1	49	22.11	19.33	21.48	34.77	-13.29
				25	12	20.97	18.19	20.34	34.77	-14.43
				50	0	20.97	18.19	20.34	34.77	-14.43
	23130	711	16QAM	1	0	21.92	19.14	21.29	34.77	-13.48
				1	49	22.05	19.27	21.42	34.77	-13.35
				25	12	20.91	18.13	20.28	34.77	-14.49
				50	0	21.02	18.24	20.39	34.77	-14.38

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Antenna gain (dBi) 0.01

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.37	21.23	23.38	34.77	-11.39
				1	24	23.37	21.23	23.38	34.77	-11.39
				12	6	22.50	20.36	22.51	34.77	-12.26
				25	0	22.51	20.37	22.52	34.77	-12.25
	23230	782	QPSK	1	0	23.42	21.28	23.43	34.77	-11.34
				1	24	23.43	21.29	23.44	34.77	-11.33
				12	6	22.30	20.16	22.31	34.77	-12.46
				25	0	22.36	20.22	22.37	34.77	-12.4
	23255	784.5	QPSK	1	0	23.43	21.29	23.44	34.77	-11.33
				1	24	23.41	21.27	23.42	34.77	-11.35
				12	6	22.38	20.24	22.39	34.77	-12.38
				25	0	22.40	20.26	22.41	34.77	-12.36
	23205	779.5	16QAM	1	0	22.65	20.51	22.66	34.77	-12.11
				1	24	22.63	20.49	22.64	34.77	-12.13
				12	6	21.57	19.43	21.58	34.77	-13.19
				25	0	21.57	19.43	21.58	34.77	-13.19
	23230	782	16QAM	1	0	22.85	20.71	22.86	34.77	-11.91
				1	24	22.67	20.53	22.68	34.77	-12.09
				12	6	21.35	19.21	21.36	34.77	-13.41
				25	0	21.40	19.26	21.41	34.77	-13.36
	23255	784.5	16QAM	1	0	22.70	20.56	22.71	34.77	-12.06
				1	24	22.67	20.53	22.68	34.77	-12.09
				12	6	21.46	19.32	21.47	34.77	-13.3
				25	0	21.45	19.31	21.46	34.77	-13.31

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Antenna gain (dBi) 0.01

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.39	21.25	23.40	34.77	-11.37
				1	49	23.43	21.29	23.44	34.77	-11.33
				25	12	22.38	20.24	22.39	34.77	-12.38
				50	0	22.55	20.41	22.56	34.77	-12.21
	23230	782	16QAM	1	0	22.67	20.53	22.68	34.77	-12.09
				1	49	22.79	20.65	22.80	34.77	-11.97
				25	12	21.43	19.29	21.44	34.77	-13.33
				50	0	21.61	19.47	21.62	34.77	-13.15

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Antenna gain (dBi) -0.97

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.89	19.77	21.92	34.77	-12.85
				1	24	22.84	19.72	21.87	34.77	-12.9
				12	6	21.95	18.83	20.98	34.77	-13.79
				25	0	21.95	18.83	20.98	34.77	-13.79
	23790	710	QPSK	1	0	22.79	19.67	21.82	34.77	-12.95
				1	24	22.90	19.78	21.93	34.77	-12.84
				12	6	21.83	18.71	20.86	34.77	-13.91
				25	0	21.89	18.77	20.92	34.77	-13.85
	23825	713.5	QPSK	1	0	22.83	19.71	21.86	34.77	-12.91
				1	24	22.91	19.79	21.94	34.77	-12.83
				12	6	21.90	18.78	20.93	34.77	-13.84
				25	0	21.92	18.80	20.95	34.77	-13.82
	23755	706.5	16QAM	1	0	22.34	19.22	21.37	34.77	-13.4
				1	24	22.18	19.06	21.21	34.77	-13.56
				12	6	21.00	17.88	20.03	34.77	-14.74
				25	0	21.00	17.88	20.03	34.77	-14.74
	23790	710	16QAM	1	0	22.00	18.88	21.03	34.77	-13.74
				1	24	22.11	18.99	21.14	34.77	-13.63
				12	6	20.91	17.79	19.94	34.77	-14.83
				25	0	20.96	17.84	19.99	34.77	-14.78
23825	713.5	16QAM	1	0	22.22	19.10	21.25	34.77	-13.52	
			1	24	22.15	19.03	21.18	34.77	-13.59	
			12	6	20.97	17.85	20.00	34.77	-14.77	
			25	0	20.94	17.82	19.97	34.77	-14.8	

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Antenna gain (dBi) -0.97

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	23.08	19.96	22.11	34.77	-12.66
				1	49	22.92	19.80	21.95	34.77	-12.82
				25	12	21.97	18.85	21.00	34.77	-13.77
				50	0	22.07	18.95	21.10	34.77	-13.67
	23790	710	QPSK	1	0	23.06	19.94	22.09	34.77	-12.68
				1	49	22.85	19.73	21.88	34.77	-12.89
				25	12	21.96	18.84	20.99	34.77	-13.78
				50	0	22.06	18.94	21.09	34.77	-13.68
	23800	711	QPSK	1	0	22.97	19.85	22.00	34.77	-12.77
				1	49	22.80	19.68	21.83	34.77	-12.94
				25	12	21.95	18.83	20.98	34.77	-13.79
				50	0	22.08	18.96	21.11	34.77	-13.66
	23780	709	16QAM	1	0	22.20	19.08	21.23	34.77	-13.54
				1	49	22.40	19.28	21.43	34.77	-13.34
				25	12	21.10	17.98	20.13	34.77	-14.64
				50	0	21.11	17.99	20.14	34.77	-14.63
	23790	710	16QAM	1	0	22.10	18.98	21.13	34.77	-13.64
				1	49	22.34	19.22	21.37	34.77	-13.4
				25	12	21.04	17.92	20.07	34.77	-14.7
				50	0	21.10	17.98	20.13	34.77	-14.64
23800	711	16QAM	1	0	22.06	18.94	21.09	34.77	-13.68	
			1	49	22.25	19.13	21.28	34.77	-13.49	
			25	12	21.01	17.89	20.04	34.77	-14.73	
			50	0	21.16	18.04	20.19	34.77	-14.58	

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	22.92	19.00	21.15	38.45	-17.3
				1	5	22.99	19.07	21.22	38.45	-17.23
				3	2	22.88	18.96	21.11	38.45	-17.34
				6	0	21.92	18.00	20.15	38.45	-18.3
	26915	836.5	QPSK	1	0	23.05	19.13	21.28	38.45	-17.17
				1	5	23.05	19.13	21.28	38.45	-17.17
				3	2	22.98	19.06	21.21	38.45	-17.24
				6	0	22.06	18.14	20.29	38.45	-18.16
	27033	848.3	QPSK	1	0	23.08	19.16	21.31	38.45	-17.14
				1	5	23.10	19.18	21.33	38.45	-17.12
				3	2	22.98	19.06	21.21	38.45	-17.24
				6	0	22.10	18.18	20.33	38.45	-18.12
	26797	824.7	16QAM	1	0	22.27	18.35	20.50	38.45	-17.95
				1	5	22.27	18.35	20.50	38.45	-17.95
				3	2	21.77	17.85	20.00	38.45	-18.45
				6	0	21.02	17.10	19.25	38.45	-19.2
	26915	836.5	16QAM	1	0	22.28	18.36	20.51	38.45	-17.94
				1	5	22.41	18.49	20.64	38.45	-17.81
				3	2	21.99	18.07	20.22	38.45	-18.23
				6	0	21.20	17.28	19.43	38.45	-19.02
	27033	848.3	16QAM	1	0	22.38	18.46	20.61	38.45	-17.84
				1	5	22.49	18.57	20.72	38.45	-17.73
				3	2	21.94	18.02	20.17	38.45	-18.28
				6	0	21.20	17.28	19.43	38.45	-19.02

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	22.46	18.54	20.69	38.45	-17.76
				1	14	22.74	18.82	20.97	38.45	-17.48
				8	4	21.90	17.98	20.13	38.45	-18.32
				15	0	21.78	17.86	20.01	38.45	-18.44
	26915	836.5	QPSK	1	0	22.75	18.83	20.98	38.45	-17.47
				1	14	22.79	18.87	21.02	38.45	-17.43
				8	4	21.92	18.00	20.15	38.45	-18.3
				15	0	21.96	18.04	20.19	38.45	-18.26
	27025	847.5	QPSK	1	0	22.61	18.69	20.84	38.45	-17.61
				1	14	22.66	18.74	20.89	38.45	-17.56
				8	4	21.75	17.83	19.98	38.45	-18.47
				15	0	21.89	17.97	20.12	38.45	-18.33
	26805	825.5	16QAM	1	0	21.83	17.91	20.06	38.45	-18.39
				1	14	21.77	17.85	20.00	38.45	-18.45
				8	4	20.78	16.86	19.01	38.45	-19.44
				15	0	21.19	17.27	19.42	38.45	-19.03
	26915	836.5	16QAM	1	0	21.89	17.97	20.12	38.45	-18.33
				1	14	21.78	17.86	20.01	38.45	-18.44
				8	4	20.79	16.87	19.02	38.45	-19.43
				15	0	20.94	17.02	19.17	38.45	-19.28
	27025	847.5	16QAM	1	0	21.87	17.95	20.10	38.45	-18.35
				1	14	21.80	17.88	20.03	38.45	-18.42
				8	4	20.80	16.88	19.03	38.45	-19.42
				15	0	20.87	16.95	19.10	38.45	-19.35

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	22.63	18.71	20.86	38.45	-17.59
				1	24	22.78	18.86	21.01	38.45	-17.44
				12	6	22.03	18.11	20.26	38.45	-18.19
				25	0	21.94	18.02	20.17	38.45	-18.28
	26915	836.5	QPSK	1	0	22.87	18.95	21.10	38.45	-17.35
				1	24	22.86	18.94	21.09	38.45	-17.36
				12	6	21.95	18.03	20.18	38.45	-18.27
				25	0	22.06	18.14	20.29	38.45	-18.16
	27015	846.5	QPSK	1	0	22.72	18.80	20.95	38.45	-17.5
				1	24	22.80	18.88	21.03	38.45	-17.42
				12	6	21.80	17.88	20.03	38.45	-18.42
				25	0	21.93	18.01	20.16	38.45	-18.29
	26815	826.5	16QAM	1	0	21.91	17.99	20.14	38.45	-18.31
				1	24	21.86	17.94	20.09	38.45	-18.36
				12	6	20.94	17.02	19.17	38.45	-19.28
				25	0	21.22	17.30	19.45	38.45	-19
	26915	836.5	16QAM	1	0	22.09	18.17	20.32	38.45	-18.13
				1	24	21.92	18.00	20.15	38.45	-18.3
				12	6	20.96	17.04	19.19	38.45	-19.26
				25	0	21.04	17.12	19.27	38.45	-19.18
27015	846.5	16QAM	1	0	22.00	18.08	20.23	38.45	-18.22	
			1	24	21.94	18.02	20.17	38.45	-18.28	
			12	6	20.88	16.96	19.11	38.45	-19.34	
			25	0	20.90	16.98	19.13	38.45	-19.32	

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	22.74	18.82	20.97	38.45	-17.48
				1	49	22.95	19.03	21.18	38.45	-17.27
				25	12	22.14	18.22	20.37	38.45	-18.08
				50	0	22.04	18.12	20.27	38.45	-18.18
	26915	836.5	QPSK	1	0	23.00	19.08	21.23	38.45	-17.22
				1	49	23.00	19.08	21.23	38.45	-17.22
				25	12	22.13	18.21	20.36	38.45	-18.09
				50	0	22.21	18.29	20.44	38.45	-18.01
	26990	844	QPSK	1	0	22.89	18.97	21.12	38.45	-17.33
				1	49	23.01	19.09	21.24	38.45	-17.21
				25	12	21.96	18.04	20.19	38.45	-18.26
				50	0	22.02	18.10	20.25	38.45	-18.2
	26840	829	16QAM	1	0	21.94	18.02	20.17	38.45	-18.28
				1	49	22.05	18.13	20.28	38.45	-18.17
				25	12	21.04	17.12	19.27	38.45	-19.18
				50	0	21.31	17.39	19.54	38.45	-18.91
	26915	836.5	16QAM	1	0	22.14	18.22	20.37	38.45	-18.08
				1	49	22.02	18.10	20.25	38.45	-18.2
				25	12	21.04	17.12	19.27	38.45	-19.18
				50	0	21.18	17.26	19.41	38.45	-19.04
	26990	844	16QAM	1	0	22.18	18.26	20.41	38.45	-18.04
				1	49	22.08	18.16	20.31	38.45	-18.14
				25	12	20.98	17.06	19.21	38.45	-19.24
				50	0	21.09	17.17	19.32	38.45	-19.13

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	22.91	18.99	21.14	38.45	-17.31
				1	74	23.05	19.13	21.28	38.45	-17.17
				36	18	22.16	18.24	20.39	38.45	-18.06
				75	0	22.23	18.31	20.46	38.45	-17.99
	26915	836.5	QPSK	1	0	23.14	19.22	21.37	38.45	-17.08
				1	74	23.04	19.12	21.27	38.45	-17.18
				36	18	22.15	18.23	20.38	38.45	-18.07
				75	0	22.24	18.32	20.47	38.45	-17.98
	26965	841.5	QPSK	1	0	22.95	19.03	21.18	38.45	-17.27
				1	74	23.07	19.15	21.30	38.45	-17.15
				36	18	22.00	18.08	20.23	38.45	-18.22
				75	0	22.11	18.19	20.34	38.45	-18.11
	26865	831.5	16QAM	1	0	22.01	18.09	20.24	38.45	-18.21
				1	74	22.20	18.28	20.43	38.45	-18.02
				36	18	21.20	17.28	19.43	38.45	-19.02
				75	0	21.35	17.43	19.58	38.45	-18.87
	26915	836.5	16QAM	1	0	22.32	18.40	20.55	38.45	-17.9
				1	74	22.15	18.23	20.38	38.45	-18.07
				36	18	21.22	17.30	19.45	38.45	-19
				75	0	21.32	17.40	19.55	38.45	-18.9
	26965	841.5	16QAM	1	0	22.34	18.42	20.57	38.45	-17.88
				1	74	22.21	18.29	20.44	38.45	-18.01
				36	18	21.05	17.13	19.28	38.45	-19.17
				75	0	21.19	17.27	19.42	38.45	-19.03

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	23.03	19.09	21.24	50	-28.76
				1	5	22.74	18.80	20.95	50	-29.05
				3	2	22.67	18.73	20.88	50	-29.12
				6	0	21.95	18.01	20.16	50	-29.84
	26740	819	QPSK	1	0	22.94	19.00	21.15	50	-28.85
				1	5	22.87	18.93	21.08	50	-28.92
				3	2	23.09	19.15	21.30	50	-28.7
				6	0	22.19	18.25	20.40	50	-29.6
	26783	823.3	QPSK	1	0	22.97	19.03	21.18	50	-28.82
				1	5	22.92	18.98	21.13	50	-28.87
				3	2	22.74	18.80	20.95	50	-29.05
				6	0	22.02	18.08	20.23	50	-29.77
	26697	814.7	16QAM	1	0	22.27	18.33	20.48	50	-29.52
				1	5	22.18	18.24	20.39	50	-29.61
				3	2	22.00	18.06	20.21	50	-29.79
				6	0	20.98	17.04	19.19	50	-30.81
	26740	819	16QAM	1	0	22.47	18.53	20.68	50	-29.32
				1	5	22.19	18.25	20.40	50	-29.6
				3	2	21.91	17.97	20.12	50	-29.88
				6	0	21.05	17.11	19.26	50	-30.74
26783	823.3	16QAM	1	0	22.35	18.41	20.56	50	-29.44	
			1	5	22.38	18.44	20.59	50	-29.41	
			3	2	21.98	18.04	20.19	50	-29.81	
			6	0	21.30	17.36	19.51	50	-30.49	

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3	26705	815.5	QPSK	1	0	22.22	18.28	20.43	50	-29.57
				1	14	22.57	18.63	20.78	50	-29.22
				8	4	21.96	18.02	20.17	50	-29.83
				15	0	21.72	17.78	19.93	50	-30.07
	26740	819	QPSK	1	0	22.86	18.92	21.07	50	-28.93
				1	14	23.02	19.08	21.23	50	-28.77
				8	4	21.69	17.75	19.90	50	-30.1
				15	0	22.05	18.11	20.26	50	-29.74
	26775	822.5	QPSK	1	0	22.63	18.69	20.84	50	-29.16
				1	14	22.46	18.52	20.67	50	-29.33
				8	4	21.94	18.00	20.15	50	-29.85
				15	0	22.05	18.11	20.26	50	-29.74
	26705	815.5	16QAM	1	0	22.05	18.11	20.26	50	-29.74
				1	14	21.96	18.02	20.17	50	-29.83
				8	4	20.59	16.65	18.80	50	-31.2
				15	0	21.28	17.34	19.49	50	-30.51
	26740	819	16QAM	1	0	21.79	17.85	20.00	50	-30
				1	14	21.94	18.00	20.15	50	-29.85
				8	4	21.03	17.09	19.24	50	-30.76
				15	0	20.87	16.93	19.08	50	-30.92
	26775	822.5	16QAM	1	0	21.80	17.86	20.01	50	-29.99
				1	14	21.77	17.83	19.98	50	-30.02
				8	4	20.74	16.80	18.95	50	-31.05
				15	0	20.97	17.03	19.18	50	-30.82

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	22.42	18.48	20.63	50	-29.37
				1	24	22.61	18.67	20.82	50	-29.18
				12	6	21.97	18.03	20.18	50	-29.82
				25	0	22.14	18.20	20.35	50	-29.65
	26740	819	QPSK	1	0	22.85	18.91	21.06	50	-28.94
				1	24	22.77	18.83	20.98	50	-29.02
				12	6	22.03	18.09	20.24	50	-29.76
				25	0	22.06	18.12	20.27	50	-29.73
	26765	821.5	QPSK	1	0	22.64	18.70	20.85	50	-29.15
				1	24	23.00	19.06	21.21	50	-28.79
				12	6	21.91	17.97	20.12	50	-29.88
				25	0	21.80	17.86	20.01	50	-29.99
	26715	816.5	16QAM	1	0	22.09	18.15	20.30	50	-29.7
				1	24	21.64	17.70	19.85	50	-30.15
				12	6	21.07	17.13	19.28	50	-30.72
				25	0	21.25	17.31	19.46	50	-30.54
	26740	819	16QAM	1	0	22.06	18.12	20.27	50	-29.73
				1	24	21.69	17.75	19.90	50	-30.1
				12	6	20.85	16.91	19.06	50	-30.94
				25	0	21.03	17.09	19.24	50	-30.76
	26765	821.5	16QAM	1	0	21.79	17.85	20.00	50	-30
				1	24	21.89	17.95	20.10	50	-29.9
				12	6	20.74	16.80	18.95	50	-31.05
				25	0	21.04	17.10	19.25	50	-30.75

Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	22.71	18.77	20.92	50	-29.08
				1	49	22.76	18.82	20.97	50	-29.03
				25	12	21.92	17.98	20.13	50	-29.87
				50	0	22.15	18.21	20.36	50	-29.64
	26740	819	16QAM	1	0	22.21	18.27	20.42	50	-29.58
				1	49	22.19	18.25	20.40	50	-29.6
				25	12	21.26	17.32	19.47	50	-30.53
				50	0	21.19	17.25	19.40	50	-30.6

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Antenna gain (dBi) 3.37

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	27685	2307.5	QPSK	1	0	19.60	22.97	24	-1.03
				1	24	19.74	23.11	24	-0.89
				12	6	18.76	22.13	24	-1.87
				25	0	18.76	22.13	24	-1.87
	27710	2310	QPSK	1	0	19.70	23.07	24	-0.93
				1	24	19.63	23.00	24	-1
				12	6	18.73	22.10	24	-1.9
				25	0	18.73	22.10	24	-1.9
	27735	2312.5	QPSK	1	0	19.69	23.06	24	-0.94
				1	24	19.70	23.07	24	-0.93
				12	6	18.79	22.16	24	-1.84
				25	0	18.78	22.15	24	-1.85
	27685	2307.5	16QAM	1	0	18.94	22.31	24	-1.69
				1	24	18.92	22.29	24	-1.71
				12	6	17.81	21.18	24	-2.82
				25	0	17.81	21.18	24	-2.82
	27710	2310	16QAM	1	0	18.91	22.28	24	-1.72
				1	24	18.95	22.32	24	-1.68
				12	6	17.79	21.16	24	-2.84
				25	0	17.79	21.16	24	-2.84
27735	2312.5	16QAM	1	0	18.89	22.26	24	-1.74	
			1	24	18.92	22.29	24	-1.71	
			12	6	17.82	21.19	24	-2.81	
			25	0	17.82	21.19	24	-2.81	

Antenna gain (dBi) 3.37

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	27710	2310	QPSK	1	0	19.95	23.32	24	-0.68
				1	49	19.87	23.24	24	-0.76
				25	12	18.99	22.36	24	-1.64
				50	0	18.93	22.30	24	-1.7
	27710	2310	16QAM	1	0	18.99	22.36	24	-1.64
				1	49	18.93	22.30	24	-1.7
				25	12	17.91	21.28	24	-2.72
				50	0	17.93	21.30	24	-2.7

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	23.34	26.30	33	-6.7
				1	24	23.34	26.30	33	-6.7
				12	6	22.33	25.29	33	-7.71
				25	0	22.29	25.25	33	-7.75
	38000	2595	QPSK	1	0	23.41	26.37	33	-6.63
				1	24	23.41	26.37	33	-6.63
				12	6	22.39	25.35	33	-7.65
				25	0	22.36	25.32	33	-7.68
	38225	2617.5	QPSK	1	0	23.43	26.39	33	-6.61
				1	24	23.43	26.39	33	-6.61
				12	6	22.45	25.41	33	-7.59
				25	0	22.40	25.36	33	-7.64
	37775	2572.5	16QAM	1	0	22.26	25.22	33	-7.78
				1	24	22.26	25.22	33	-7.78
				12	6	21.27	24.23	33	-8.77
				25	0	21.43	24.39	33	-8.61
	38000	2595	16QAM	1	0	22.34	25.30	33	-7.7
				1	24	22.34	25.30	33	-7.7
				12	6	21.33	24.29	33	-8.71
				25	0	21.47	24.43	33	-8.57
38225	2617.5	16QAM	1	0	22.33	25.29	33	-7.71	
			1	24	22.31	25.27	33	-7.73	
			12	6	21.39	24.35	33	-8.65	
			25	0	21.51	24.47	33	-8.53	

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	23.41	26.37	33	-6.63
				1	49	23.44	26.40	33	-6.6
				25	12	22.25	25.21	33	-7.79
				50	0	22.34	25.30	33	-7.7
	38000	2595	QPSK	1	0	23.44	26.40	33	-6.6
				1	49	23.28	26.24	33	-6.76
				25	12	22.15	25.11	33	-7.89
				50	0	22.34	25.30	33	-7.7
	38200	2615	QPSK	1	0	23.37	26.33	33	-6.67
				1	49	23.34	26.30	33	-6.7
				25	12	22.41	25.37	33	-7.63
				50	0	22.11	25.07	33	-7.93
	37800	2575	16QAM	1	0	22.31	25.27	33	-7.73
				1	49	22.39	25.35	33	-7.65
				25	12	21.33	24.29	33	-8.71
				50	0	21.18	24.14	33	-8.86
	38000	2595	16QAM	1	0	22.27	25.23	33	-7.77
				1	49	22.22	25.18	33	-7.82
				25	12	21.27	24.23	33	-8.77
				50	0	21.47	24.43	33	-8.57
38200	2615	16QAM	1	0	22.00	24.96	33	-8.04	
			1	49	22.25	25.21	33	-7.79	
			25	12	21.34	24.30	33	-8.7	
			50	0	21.19	24.15	33	-8.85	

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	23.47	26.43	33	-6.57
				1	74	23.53	26.49	33	-6.51
				36	19	22.46	25.42	33	-7.58
				75	0	22.48	25.44	33	-7.56
	38000	2595	QPSK	1	0	23.47	26.43	33	-6.57
				1	74	23.40	26.36	33	-6.64
				36	19	22.32	25.28	33	-7.72
				75	0	22.41	25.37	33	-7.63
	38175	2612.5	QPSK	1	0	23.41	26.37	33	-6.63
				1	74	23.39	26.35	33	-6.65
				36	19	22.45	25.41	33	-7.59
				75	0	22.30	25.26	33	-7.74
	37825	2577.5	16QAM	1	0	22.48	25.44	33	-7.56
				1	74	22.46	25.42	33	-7.58
				36	19	21.44	24.40	33	-8.6
				75	0	21.32	24.28	33	-8.72
	38000	2595	16QAM	1	0	22.39	25.35	33	-7.65
				1	74	22.25	25.21	33	-7.79
				36	19	21.48	24.44	33	-8.56
				75	0	21.50	24.46	33	-8.54
	38175	2612.5	16QAM	1	0	22.18	25.14	33	-7.86
				1	74	22.27	25.23	33	-7.77
				36	19	21.51	24.47	33	-8.53
				75	0	21.31	24.27	33	-8.73

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	23.68	26.64	33	-6.36
				1	99	23.62	26.58	33	-6.42
				50	25	22.51	25.47	33	-7.53
				100	0	22.54	25.50	33	-7.5
	38000	2595	QPSK	1	0	23.57	26.53	33	-6.47
				1	99	23.58	26.54	33	-6.46
				50	25	22.53	25.49	33	-7.51
				100	0	22.52	25.48	33	-7.52
	38150	2610	QPSK	1	0	23.55	26.51	33	-6.49
				1	99	23.51	26.47	33	-6.53
				50	25	22.48	25.44	33	-7.56
				100	0	22.50	25.46	33	-7.54
	37850	2580	16QAM	1	0	22.50	25.46	33	-7.54
				1	99	22.49	25.45	33	-7.55
				50	25	21.55	24.51	33	-8.49
				100	0	21.53	24.49	33	-8.51
	38000	2595	16QAM	1	0	22.44	25.40	33	-7.6
				1	99	22.45	25.41	33	-7.59
				50	25	21.58	24.54	33	-8.46
				100	0	21.54	24.50	33	-8.5
38150	2610	16QAM	1	0	22.36	25.32	33	-7.68	
			1	99	22.39	25.35	33	-7.65	
			50	25	21.53	24.49	33	-8.51	
			100	0	21.49	24.45	33	-8.55	

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	23.29	26.25	33	-6.75
				1	24	23.23	26.19	33	-6.81
				12	6	22.29	25.25	33	-7.75
				25	0	22.26	25.22	33	-7.78
	40620	2593	QPSK	1	0	23.29	26.25	33	-6.75
				1	24	23.30	26.26	33	-6.74
				12	6	22.28	25.24	33	-7.76
				25	0	22.25	25.21	33	-7.79
	41565	2687.5	QPSK	1	0	23.32	26.28	33	-6.72
				1	24	23.30	26.26	33	-6.74
				12	6	22.37	25.33	33	-7.67
				25	0	22.32	25.28	33	-7.72
	39675	2498.5	16QAM	1	0	22.13	25.09	33	-7.91
				1	24	22.14	25.10	33	-7.9
				12	6	21.30	24.26	33	-8.74
				25	0	21.35	24.31	33	-8.69
	40620	2593	16QAM	1	0	22.23	25.19	33	-7.81
				1	24	22.23	25.19	33	-7.81
				12	6	21.28	24.24	33	-8.76
				25	0	21.32	24.28	33	-8.72
41565	2687.5	16QAM	1	0	22.25	25.21	33	-7.79	
			1	24	22.21	25.17	33	-7.83	
			12	6	21.34	24.30	33	-8.7	
			25	0	21.41	24.37	33	-8.63	

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	22.95	25.91	33	-7.09
				1	49	23.02	25.98	33	-7.02
				25	12	21.83	24.79	33	-8.21
				50	0	22.14	25.10	33	-7.9
	40620	2593	QPSK	1	0	22.98	25.94	33	-7.06
				1	49	23.11	26.07	33	-6.93
				25	12	21.80	24.76	33	-8.24
				50	0	22.01	24.97	33	-8.03
	41540	2685	QPSK	1	0	23.15	26.11	33	-6.89
				1	49	22.95	25.91	33	-7.09
				25	12	21.99	24.95	33	-8.05
				50	0	22.07	25.03	33	-7.97
	39700	2501	16QAM	1	0	21.83	24.79	33	-8.21
				1	49	21.90	24.86	33	-8.14
				25	12	20.85	23.81	33	-9.19
				50	0	20.85	23.81	33	-9.19
	40620	2593	16QAM	1	0	21.94	24.90	33	-8.1
				1	49	22.14	25.10	33	-7.9
				25	12	21.06	24.02	33	-8.98
				50	0	20.91	23.87	33	-9.13
	41540	2685	16QAM	1	0	22.04	25.00	33	-8
				1	49	22.02	24.98	33	-8.02
				25	12	21.29	24.25	33	-8.75
				50	0	21.12	24.08	33	-8.92

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Antenna gain (dBi) 2.96

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	23.01	25.97	33	-7.03
				1	74	23.08	26.04	33	-6.96
				36	18	22.02	24.98	33	-8.02
				75	0	22.16	25.12	33	-7.88
	40620	2593	QPSK	1	0	23.03	25.99	33	-7.01
				1	74	23.19	26.15	33	-6.85
				36	18	21.94	24.90	33	-8.1
				75	0	22.17	25.13	33	-7.87
	41515	2682.5	QPSK	1	0	23.24	26.20	33	-6.8
				1	74	23.04	26.00	33	-7
				36	18	22.13	25.09	33	-7.91
				75	0	22.26	25.22	33	-7.78
	39725	2503.5	16QAM	1	0	21.97	24.93	33	-8.07
				1	74	22.01	24.97	33	-8.03
				36	18	21.00	23.96	33	-9.04
				75	0	21.04	24.00	33	-9
	40620	2593	16QAM	1	0	22.12	25.08	33	-7.92
				1	74	22.27	25.23	33	-7.77
				36	18	21.21	24.17	33	-8.83
				75	0	21.06	24.02	33	-8.98
	41515	2682.5	16QAM	1	0	22.22	25.18	33	-7.82
				1	74	22.05	25.01	33	-7.99
				36	18	21.31	24.27	33	-8.73
				75	0	21.18	24.14	33	-8.86

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	23.15	26.11	33	-6.89
				1	99	23.11	26.07	33	-6.93
				50	25	22.15	25.11	33	-7.89
				100	0	22.22	25.18	33	-7.82
	40620	2593	QPSK	1	0	23.19	26.15	33	-6.85
				1	99	23.26	26.22	33	-6.78
				50	25	22.11	25.07	33	-7.93
				100	0	22.24	25.20	33	-7.8
	41490	2680	QPSK	1	0	23.36	26.32	33	-6.68
				1	99	23.23	26.19	33	-6.81
				50	25	22.30	25.26	33	-7.74
				100	0	22.45	25.41	33	-7.59
	39750	2506	16QAM	1	0	22.08	25.04	33	-7.96
				1	99	22.13	25.09	33	-7.91
				50	25	21.21	24.17	33	-8.83
				100	0	21.24	24.20	33	-8.8
	40620	2593	16QAM	1	0	22.29	25.25	33	-7.75
				1	99	22.35	25.31	33	-7.69
				50	25	21.27	24.23	33	-8.77
				100	0	21.23	24.19	33	-8.81
41490	2680	16QAM	1	0	22.43	25.39	33	-7.61	
			1	99	22.22	25.18	33	-7.82	
			50	25	21.35	24.31	33	-8.69	
			100	0	21.33	24.29	33	-8.71	

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	23.38	23.11	30	-6.89
				1	5	23.43	23.16	30	-6.84
				3	2	22.99	22.72	30	-7.28
				6	0	22.20	21.93	30	-8.07
	132322	1745	QPSK	1	0	23.46	23.19	30	-6.81
				1	5	23.45	23.18	30	-6.82
				3	2	22.76	22.49	30	-7.51
				6	0	22.29	22.02	30	-7.98
	132665	1779.3	QPSK	1	0	23.69	23.42	30	-6.58
				1	5	23.66	23.39	30	-6.61
				3	2	22.93	22.66	30	-7.34
				6	0	22.50	22.23	30	-7.77
	131979	1710.7	16QAM	1	0	22.69	22.42	30	-7.58
				1	5	22.68	22.41	30	-7.59
				3	2	22.33	22.06	30	-7.94
				6	0	21.22	20.95	30	-9.05
	132322	1745	16QAM	1	0	22.85	22.58	30	-7.42
				1	5	22.92	22.65	30	-7.35
				3	2	22.36	22.09	30	-7.91
				6	0	21.29	21.02	30	-8.98
	132665	1779.3	16QAM	1	0	22.97	22.70	30	-7.3
				1	5	22.91	22.64	30	-7.36
				3	2	22.64	22.37	30	-7.63
				6	0	21.49	21.22	30	-8.78

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	22.88	22.61	30	-7.39
				1	14	22.79	22.52	30	-7.48
				8	4	21.88	21.61	30	-8.39
				15	0	22.13	21.86	30	-8.14
	132322	1745	QPSK	1	0	22.76	22.49	30	-7.51
				1	14	23.32	23.05	30	-6.95
				8	4	21.74	21.47	30	-8.53
				15	0	22.22	21.95	30	-8.05
	132657	1778.5	QPSK	1	0	23.16	22.89	30	-7.11
				1	14	23.16	22.89	30	-7.11
				8	4	21.90	21.63	30	-8.37
				15	0	22.18	21.91	30	-8.09
	131987	1711.5	16QAM	1	0	22.48	22.21	30	-7.79
				1	14	22.04	21.77	30	-8.23
				8	4	20.88	20.61	30	-9.39
				15	0	21.16	20.89	30	-9.11
	132322	1745	16QAM	1	0	22.34	22.07	30	-7.93
				1	14	22.40	22.13	30	-7.87
				8	4	20.92	20.65	30	-9.35
				15	0	21.28	21.01	30	-8.99
	132657	1778.5	16QAM	1	0	22.36	22.09	30	-7.91
				1	14	22.26	21.99	30	-8.01
				8	4	20.91	20.64	30	-9.36
				15	0	21.03	20.76	30	-9.24

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Antenna gain (dBi) -0.27

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	23.04	22.77	30	-7.23
				1	24	22.81	22.54	30	-7.46
				12	6	22.07	21.80	30	-8.2
				25	0	22.23	21.96	30	-8.04
	132322	1745	QPSK	1	0	22.82	22.55	30	-7.45
				1	24	23.53	23.26	30	-6.74
				12	6	21.95	21.68	30	-8.32
				25	0	22.43	22.16	30	-7.84
	132647	1777.5	QPSK	1	0	23.20	22.93	30	-7.07
				1	24	23.20	22.93	30	-7.07
				12	6	22.04	21.77	30	-8.23
				25	0	22.28	22.01	30	-7.99
	131997	1712.5	16QAM	1	0	22.51	22.24	30	-7.76
				1	24	22.13	21.86	30	-8.14
				12	6	21.08	20.81	30	-9.19
				25	0	21.27	21.00	30	-9
	132322	1745	16QAM	1	0	22.40	22.13	30	-7.87
				1	24	22.58	22.31	30	-7.69
				12	6	21.11	20.84	30	-9.16
				25	0	21.43	21.16	30	-8.84
	132647	1777.5	16QAM	1	0	22.49	22.22	30	-7.78
				1	24	22.41	22.14	30	-7.86
				12	6	20.97	20.70	30	-9.3
				25	0	21.21	20.94	30	-9.06

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	23.18	22.91	30	-7.09
				1	49	23.02	22.75	30	-7.25
				25	12	22.21	21.94	30	-8.06
				50	0	22.36	22.09	30	-7.91
	132322	1745	QPSK	1	0	23.03	22.76	30	-7.24
				1	49	23.57	23.30	30	-6.7
				25	12	22.12	21.85	30	-8.15
				50	0	22.55	22.28	30	-7.72
	132622	1775	QPSK	1	0	23.33	23.06	30	-6.94
				1	49	23.41	23.14	30	-6.86
				25	12	22.16	21.89	30	-8.11
				50	0	22.31	22.04	30	-7.96
	132022	1715	16QAM	1	0	22.57	22.30	30	-7.7
				1	49	22.32	22.05	30	-7.95
				25	12	21.18	20.91	30	-9.09
				50	0	21.45	21.18	30	-8.82
	132322	1745	16QAM	1	0	22.50	22.23	30	-7.77
				1	49	22.70	22.43	30	-7.57
				25	12	21.17	20.90	30	-9.1
				50	0	21.46	21.19	30	-8.81
132622	1775	16QAM	1	0	22.54	22.27	30	-7.73	
			1	49	22.57	22.30	30	-7.7	
			25	12	21.07	20.80	30	-9.2	
			50	0	21.28	21.01	30	-8.99	

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	23.33	23.06	30	-6.94
				1	74	23.11	22.84	30	-7.16
				36	18	22.39	22.12	30	-7.88
				75	0	22.45	22.18	30	-7.82
	132322	1745	QPSK	1	0	23.21	22.94	30	-7.06
				1	74	23.61	23.34	30	-6.66
				36	18	22.28	22.01	30	-7.99
				75	0	22.61	22.34	30	-7.66
	132597	1772.5	QPSK	1	0	23.53	23.26	30	-6.74
				1	74	23.52	23.25	30	-6.75
				36	18	22.19	21.92	30	-8.08
				75	0	22.40	22.13	30	-7.87
	132047	1717.5	16QAM	1	0	22.63	22.36	30	-7.64
				1	74	22.42	22.15	30	-7.85
				36	18	21.36	21.09	30	-8.91
				75	0	21.51	21.24	30	-8.76
	132322	1745	16QAM	1	0	22.60	22.33	30	-7.67
				1	74	22.73	22.46	30	-7.54
				36	18	21.32	21.05	30	-8.95
				75	0	21.57	21.30	30	-8.7
	132597	1772.5	16QAM	1	0	22.63	22.36	30	-7.64
				1	74	22.78	22.51	30	-7.49
				36	18	21.14	20.87	30	-9.13
				75	0	21.48	21.21	30	-8.79

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	23.18	22.91	30	-7.09
				1	99	23.51	23.24	30	-6.76
				50	25	22.50	22.23	30	-7.77
				100	0	22.63	22.36	30	-7.64
	132322	1745	QPSK	1	0	23.69	23.42	30	-6.58
				1	99	23.25	22.98	30	-7.02
				50	25	22.47	22.20	30	-7.8
				100	0	22.64	22.37	30	-7.63
	132572	1770	QPSK	1	0	23.71	23.44	30	-6.56
				1	99	23.55	23.28	30	-6.72
				50	25	22.26	21.99	30	-8.01
				100	0	22.55	22.28	30	-7.72
	132072	1720	16QAM	1	0	22.72	22.45	30	-7.55
				1	99	22.45	22.18	30	-7.82
				50	25	21.46	21.19	30	-8.81
				100	0	21.62	21.35	30	-8.65
	132322	1745	16QAM	1	0	22.66	22.39	30	-7.61
				1	99	22.90	22.63	30	-7.37
				50	25	21.42	21.15	30	-8.85
				100	0	21.66	21.39	30	-8.61
132572	1770	16QAM	1	0	22.76	22.49	30	-7.51	
			1	99	22.89	22.62	30	-7.38	
			50	25	21.17	20.90	30	-9.1	
			100	0	21.53	21.26	30	-8.74	

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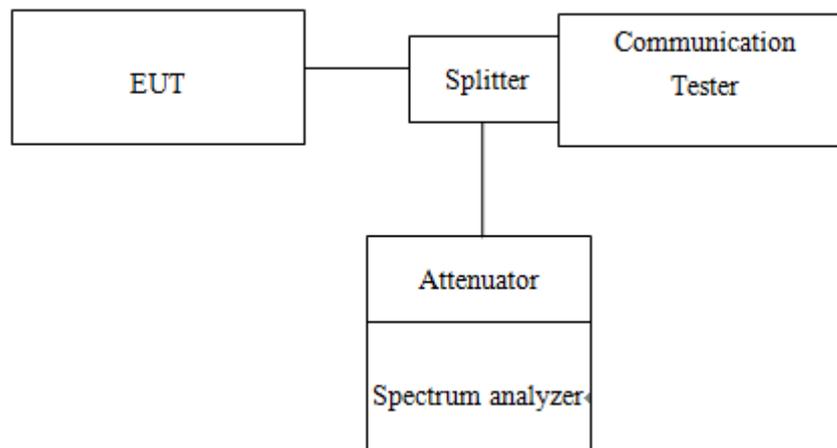
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7 OCCUPIED BANDWIDTH MEASUREMENT

7.3 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.

7.4 Test Set-up



7.5 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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7.6 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25

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7.7 Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.05690	4.06770	4.06510	4.592	4.588	4.599
1880.00	9400	4.05330	4.05600	4.06440	4.599	4.599	4.592
1907.60	9538	4.05650	4.06330	4.05980	4.595	4.601	4.595

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.06650	4.05830	4.06670	4.597	4.594	4.613
1732.60	1413	4.07240	4.06590	4.05800	4.586	4.608	4.592
1752.60	1513	4.07240	4.05930	4.07060	4.592	4.596	4.596

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.06280	4.05960	4.06430	4.608	4.602	4.591
836.60	4183	4.05320	4.05610	4.05890	4.607	4.584	4.589
846.60	4233	4.05990	4.06110	4.06070	4.597	4.606	4.605

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LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.1048	1.1066	1.324	1.325
1880.0	18900	1.1036	1.1135	1.326	1.330
1909.3	19193	1.1047	1.1133	1.336	1.326

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.7183	2.7161	3.039	3.047
1880.0	18900	2.7170	2.7210	3.070	3.062
1908.5	19185	2.7295	2.7163	3.042	3.047

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.5308	4.5195	5.077	5.119
1880.0	18900	4.5233	4.5187	5.082	5.334
1907.5	19175	4.5274	4.5195	5.093	5.085

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	9.0851	9.0958	10.626	10.596
1880.0	18900	9.0769	9.0944	10.605	10.617
1905.0	19150	9.0764	9.0836	10.585	10.582

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.541	13.523	15.695	15.509
1880.0	18900	13.572	13.578	15.790	15.889
1902.5	19125	13.588	13.530	16.016	15.597

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.986	17.971	20.219	20.048
1880.0	18900	18.058	18.080	20.604	20.078
1900.0	19100	17.992	17.974	20.415	19.828

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LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.1071	1.1072	1.320	1.323
1732.5	20175	1.1103	1.1068	1.321	1.325
1754.3	20393	1.1106	1.1078	1.327	1.328

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.7308	2.7095	3.059	3.030
1732.5	20175	2.7297	2.7211	3.063	3.052
1753.5	20385	2.7388	2.7184	3.063	3.051

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5286	4.5331	5.092	5.123
1732.5	20175	4.5253	4.5108	5.076	5.113
1752.5	20375	4.5312	4.5160	5.112	5.049

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	9.0603	9.0382	10.530	10.454
1732.5	20175	9.0863	9.0457	10.610	10.529
1750.0	20350	9.0690	9.0479	10.564	10.469

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.535	13.510	15.805	15.507
1732.5	20175	13.529	13.504	15.821	15.494
1747.5	20325	13.507	13.511	15.490	15.846

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	18.038	18.008	20.252	20.062
1732.5	20175	17.990	18.011	19.996	19.811
1745.0	20300	17.965	17.962	19.840	20.160

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.1128	1.1282	1.325	1.331
836.5	20525	1.1062	1.1158	1.313	1.319
848.3	20643	1.1141	1.1186	1.330	1.330

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.7223	2.7194	3.065	3.055
836.5	20525	2.7162	2.7182	3.045	3.055
847.5	20635	2.7289	2.7211	3.047	3.047

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5158	4.5128	5.090	5.094
836.5	20525	4.5201	4.5101	5.077	5.067
846.5	20625	4.5241	4.5326	5.067	5.045

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	9.0276	9.0413	10.542	10.518
836.5	20525	9.1212	9.0930	10.600	10.536
844.0	20600	9.0163	8.9836	10.487	10.406

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LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.5185	4.5250	5.106	5.100
2535.0	21100	4.5117	4.5216	5.132	5.099
2567.5	21425	4.5302	4.5210	5.117	5.108

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	9.1014	9.1048	10.610	10.692
2535.0	21100	9.0808	9.0498	10.567	10.533
2565.0	21400	9.0594	9.0264	10.558	10.487

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.562	13.565	15.489	15.871
2535.0	21100	13.472	13.515	15.571	15.615
2562.5	21375	13.504	13.516	15.780	15.485

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	18.043	18.034	20.183	19.946
2535.0	21100	17.979	17.951	19.949	19.816
2560.0	21350	18.030	18.043	20.419	20.141

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.1079	1.1162	1.306	1.301
707.5	23095	1.1220	1.1206	1.326	1.339
715.3	23173	1.1100	1.1116	1.322	1.325

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.7042	2.7144	3.039	3.032
707.5	23095	2.7233	2.7201	3.042	3.034
714.5	23165	2.7343	2.7196	3.033	3.036

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.4894	4.4938	5.007	5.045
707.5	23095	4.5337	4.5439	5.115	5.120
713.5	23155	4.4877	4.4820	5.025	4.993

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	9.1124	9.0486	10.483	10.530
707.5	23095	9.2141	9.2273	10.696	10.696
711.0	23130	8.9619	8.9651	10.396	10.373

LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	4.5413	4.5367	5.057	5.084
782.0	23230	4.4969	4.5038	5.055	5.022
784.5	23255	4.5077	4.5030	5.101	5.073

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	9.050	8.997	10.378	10.501

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LTE BAND 17 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
706.5	23755	4.5409	4.5386	5.113	5.133
710.0	23790	4.5252	4.5249	5.099	5.120
713.5	23825	4.4768	4.4897	5.026	4.978

LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
709.0	23780	9.0980	9.1331	10.494	10.447
710.0	23790	9.0146	9.0117	10.385	10.391
711.0	23800	8.9673	8.9697	10.389	10.413

LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	26797	1.1115	1.1257	1.315	1.315
836.5	26915	1.1038	1.1195	1.315	1.329
848.3	27033	1.1037	1.1079	1.318	1.329

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	26805	2.7168	2.7333	3.037	3.034
836.5	26915	2.7189	2.7392	3.054	3.059
847.5	27025	2.7251	2.7082	3.055	3.041

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	26815	4.5052	4.5184	5.078	5.079
836.5	26915	4.5110	4.5201	5.109	5.086
846.5	27015	4.5030	4.5202	5.062	5.028

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	26840	9.0521	9.0333	10.459	10.537
836.5	26915	9.1081	9.0654	10.553	10.510
844.0	26990	9.0069	9.0364	10.502	10.408

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
831.5	26865	13.568	13.584	15.756	15.468
836.5	26915	13.627	13.610	15.610	15.641
841.5	26965	13.509	13.458	15.416	15.286

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LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.1087	1.1128	1.322	1.331
819.0	26740	1.1032	1.1090	1.315	1.324
823.3	26783	1.1044	1.1167	1.327	1.313

LTE BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.7383	2.7138	3.050	3.027
819.0	26740	2.7183	2.7281	3.042	3.050
822.5	26775	2.7206	2.7279	3.047	3.035

LTE BAND 26 for part 90S Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.5287	4.5066	5.091	5.038
819.0	26740	4.5223	4.5210	5.055	5.065
821.5	26765	4.5090	4.5141	5.009	5.095

LTE BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
819.0	26740	9.1249	9.1171	10.590	10.519

LTE BAND 30 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2307.5	27685	4.5123	4.5006	5.060	5.081
2310.0	27710	4.5062	4.5024	5.071	5.093
2312.5	27735	4.5240	4.5108	5.100	5.052

LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	16QAM	QPSK
2310.0	27710	9.0298	9.0132	10.570	10.450

LTE BAND 38 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2572.5	37775	4.5133	4.5161	5.011	5.222
2595.0	38000	4.5252	4.5063	5.047	5.038
2617.5	38225	4.5436	4.4947	5.086	5.016

LTE BAND 38 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2575.0	37800	9.0143	9.0284	10.385	10.515
2595.0	38000	9.0056	9.0303	10.420	10.540
2615.0	38200	9.0377	9.0360	10.386	10.577

LTE BAND 38 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2577.5	37825	13.536	13.573	15.516	16.081
2595.0	38000	13.550	13.542	15.672	15.601
2612.5	38175	13.548	13.542	15.476	15.751

LTE BAND 38 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2580.0	37850	17.969	17.971	20.325	20.756
2595.0	38000	17.976	17.967	20.251	19.642
2610.0	38150	17.965	17.960	20.248	19.729

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LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.5237	4.5096	5.099	5.303
2593.0	40620	4.5182	4.5070	5.069	5.071
2687.5	41565	4.5106	4.5133	5.089	5.224

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2501.0	39700	9.0570	9.0231	10.450	10.441
2593.0	40620	9.0014	9.0191	10.391	10.514
2685.0	41540	9.0517	9.0399	10.713	10.615

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.535	13.536	15.396	15.645
2593.0	40620	13.565	13.573	15.733	15.654
2682.5	41515	13.539	13.599	15.325	16.697

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2506.0	39750	17.928	17.966	20.054	20.077
2593.0	40620	17.957	17.940	20.069	19.940
2680.0	41490	17.931	17.919	20.383	19.814

LTE BAND 66 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	131979	1.1037	1.1087	1.315	1.319
1745.0	132322	1.1087	1.1097	1.319	1.323
1779.3	132665	1.1067	1.1028	1.320	1.321

LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	131987	2.7232	2.7216	3.048	3.045
1745.0	132322	2.7155	2.7118	3.062	3.053
1778.5	132657	2.7179	2.7041	3.048	3.039

LTE BAND 66 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.5228	4.5201	5.060	5.109
1745.0	132322	4.5045	4.5143	5.100	5.143
1777.5	132647	4.5154	4.5156	5.095	5.104

LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	132022	9.0684	9.0759	10.498	10.435
1745.0	132322	9.0450	9.0766	10.532	10.540
1775.0	132622	9.0455	9.0437	10.494	10.486

LTE BAND 66 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.4920	13.5210	15.560	15.348
1745.0	132322	13.4950	13.5380	15.513	15.685
1772.5	132597	13.5170	13.4980	15.456	15.602

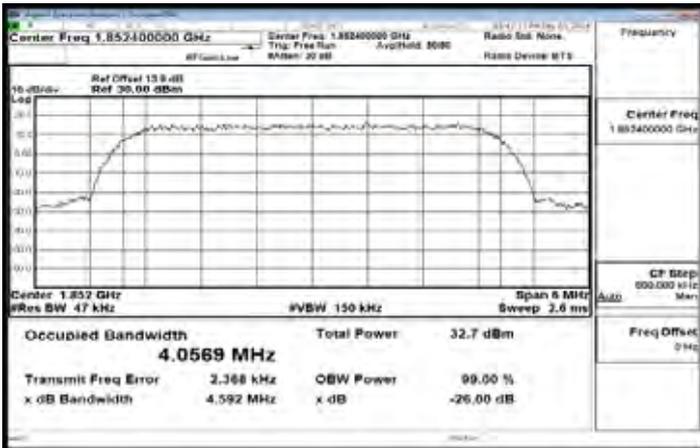
LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	132072	17.9440	17.9470	19.872	19.917
1745.0	132322	17.9720	17.9650	19.874	20.009
1770.0	132572	17.9960	17.9840	20.056	20.003

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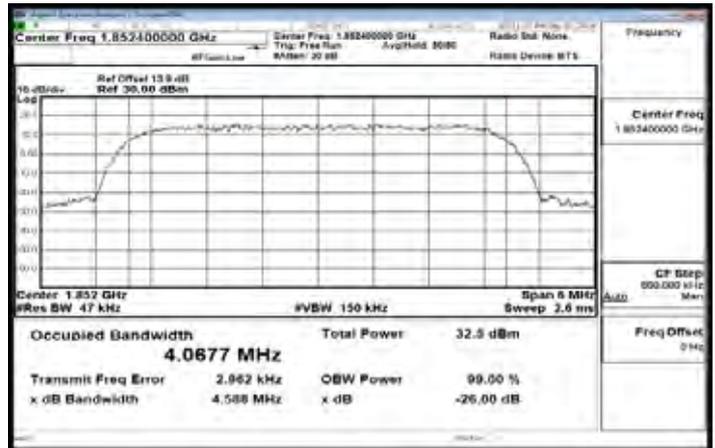
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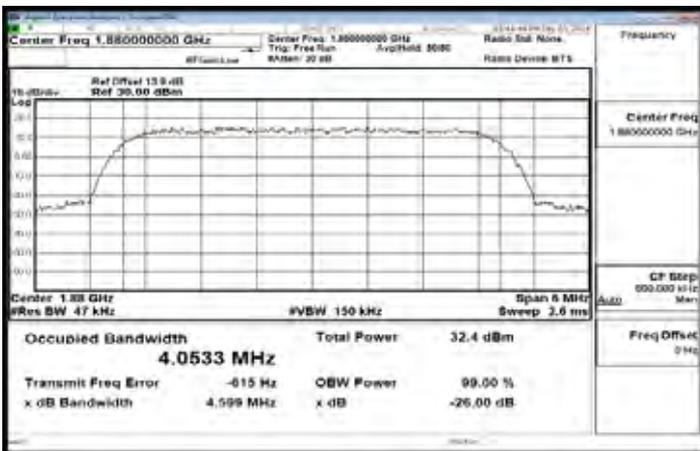
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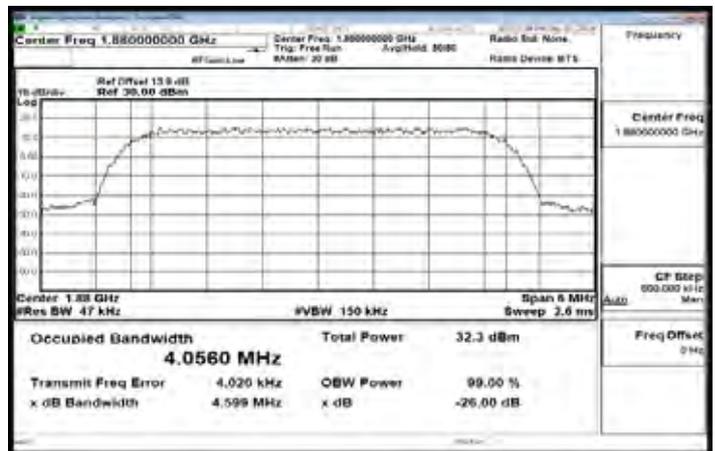
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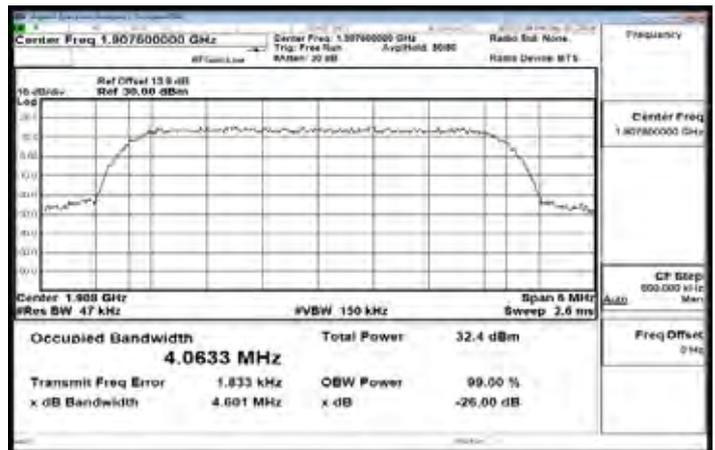
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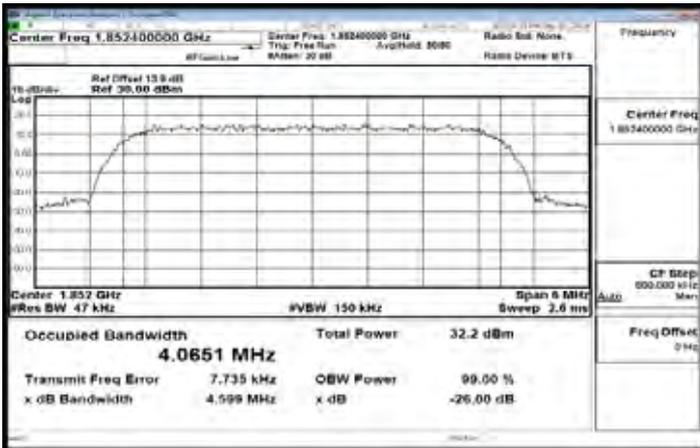
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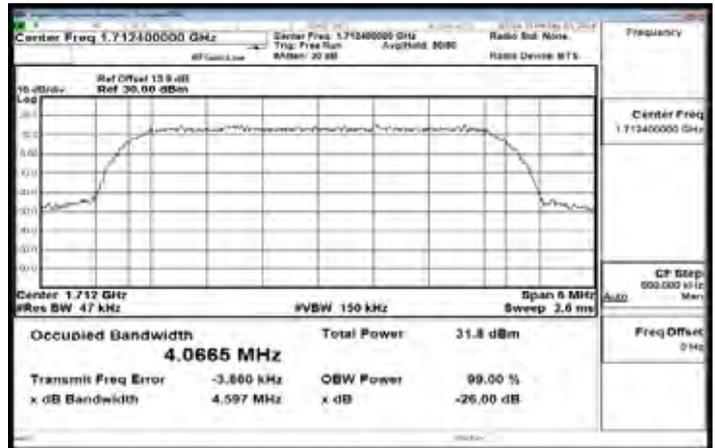
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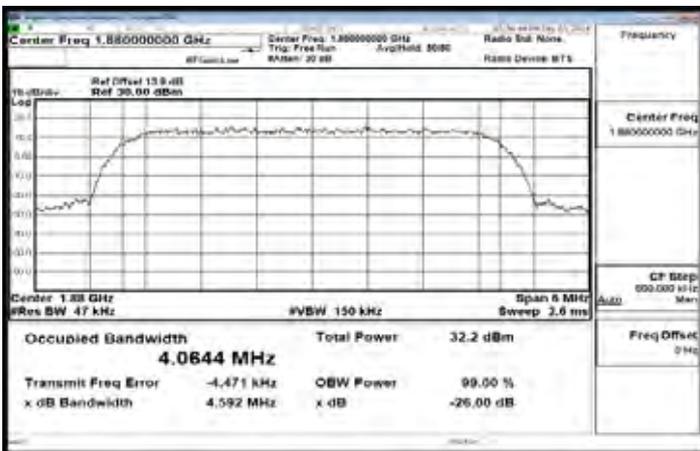
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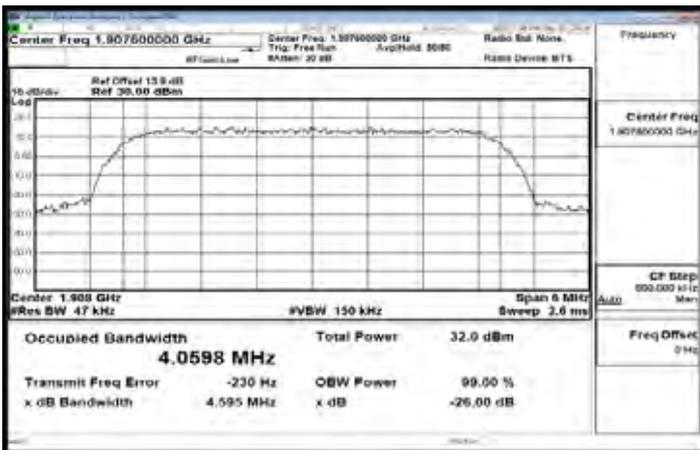
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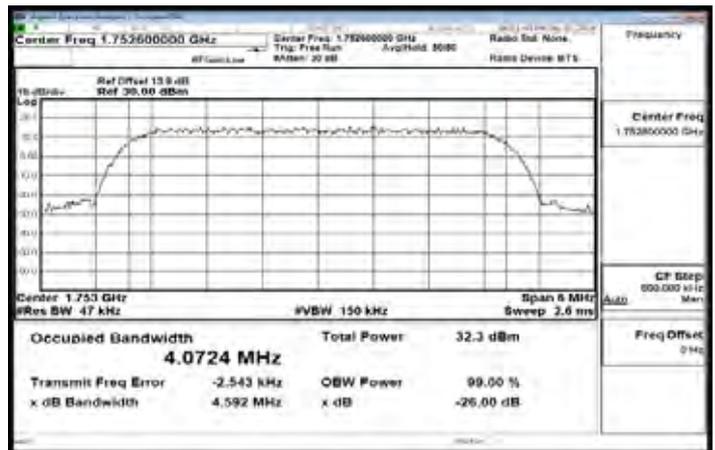
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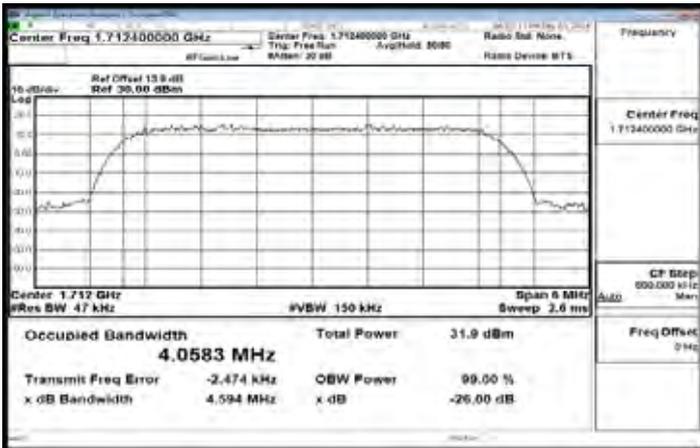


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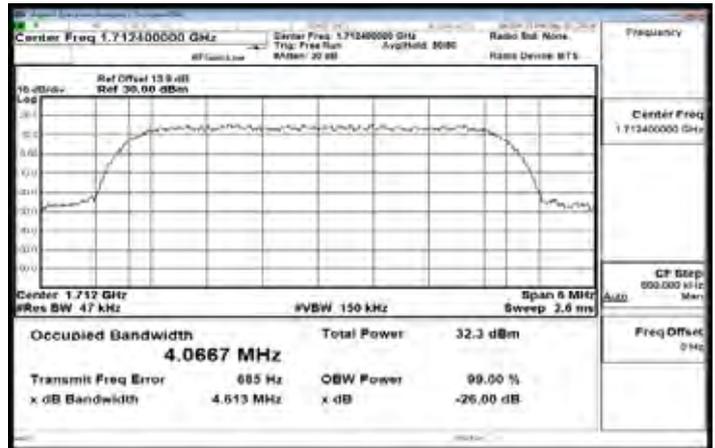
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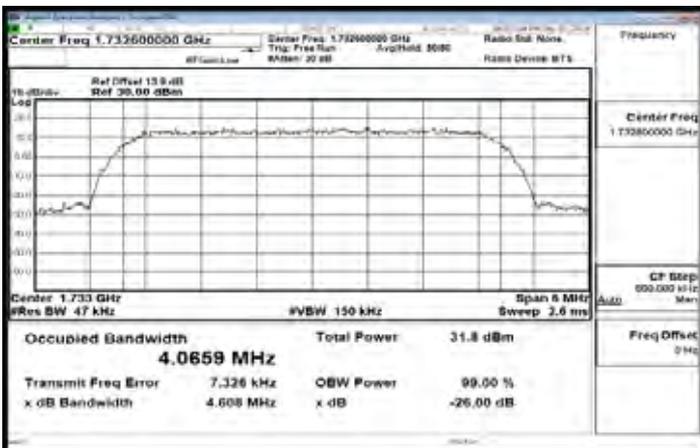
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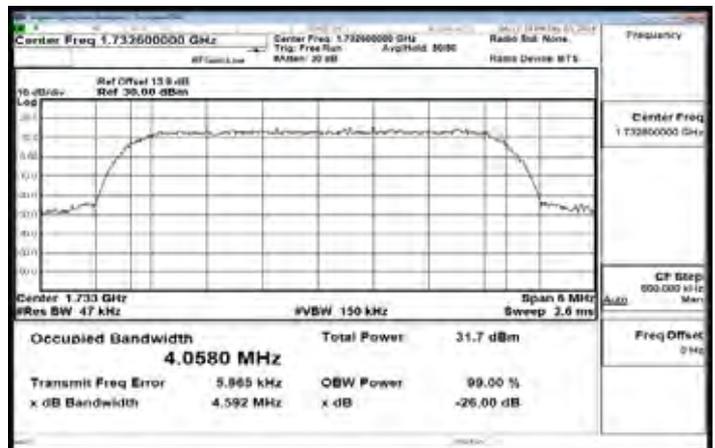
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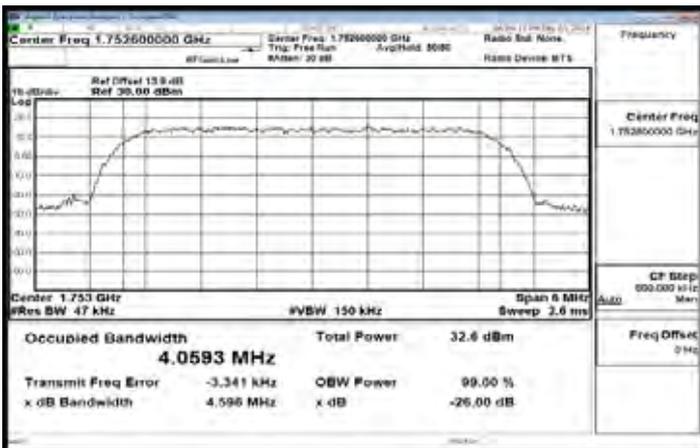
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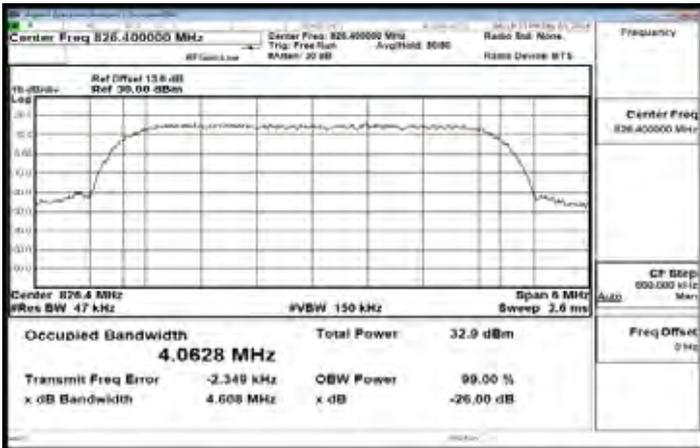


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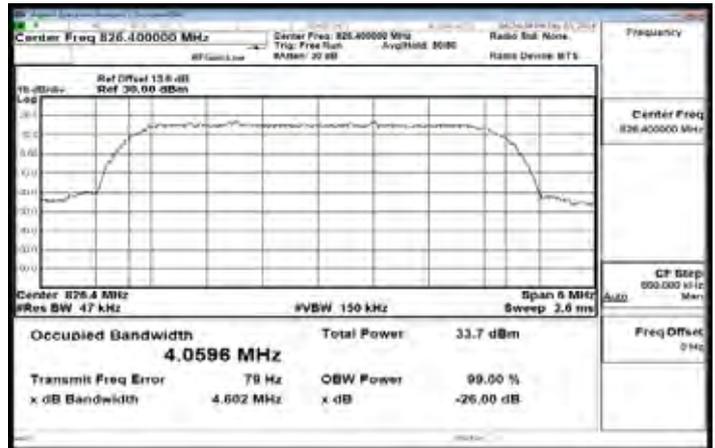
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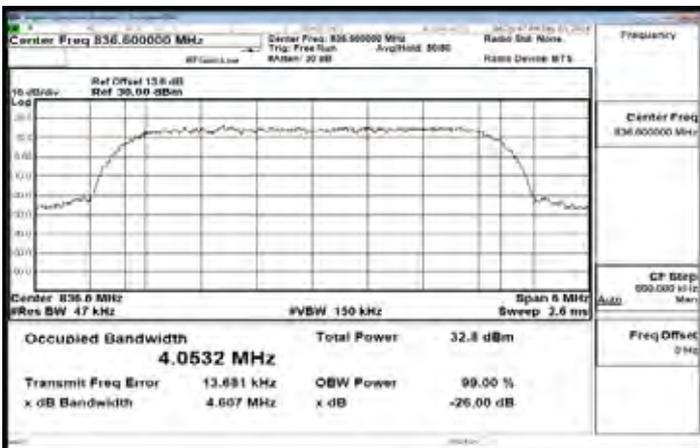
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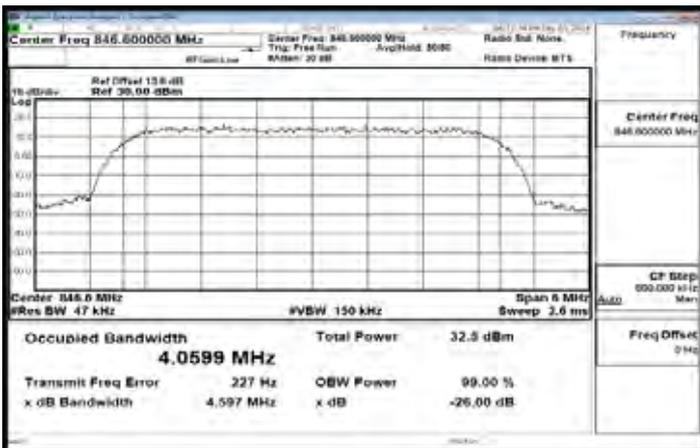
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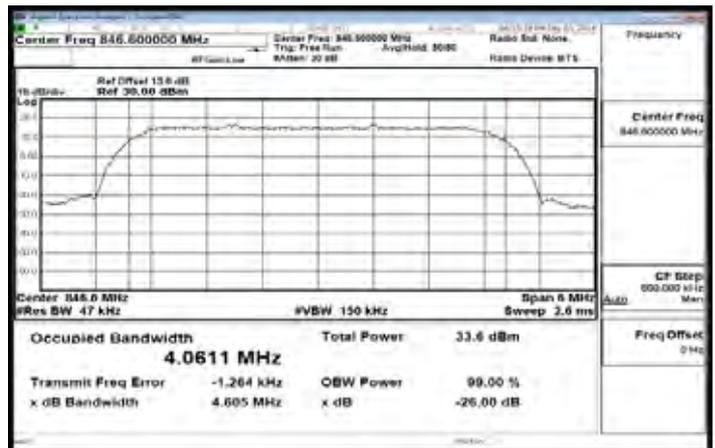
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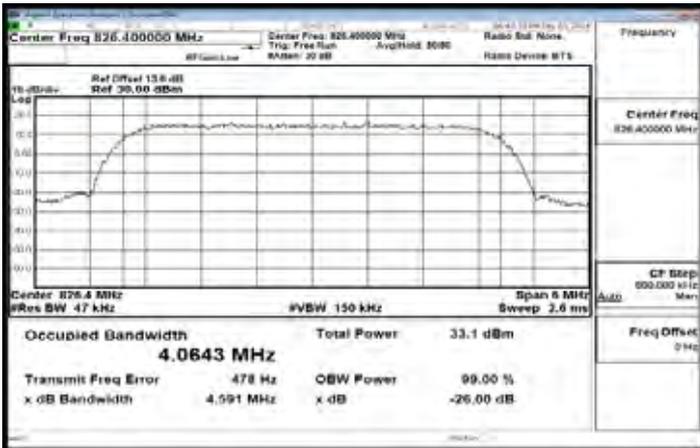


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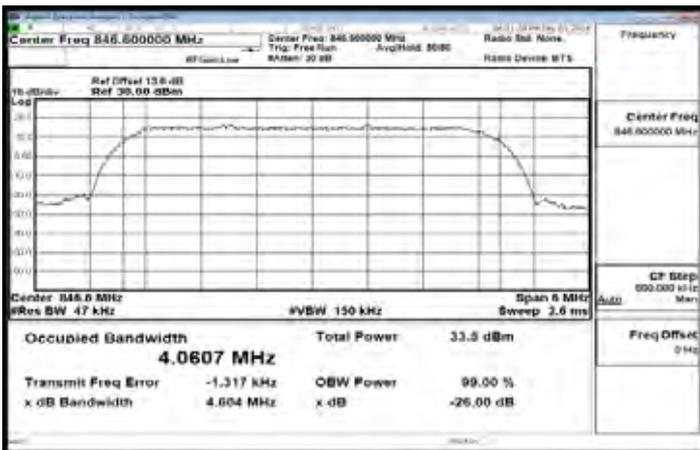
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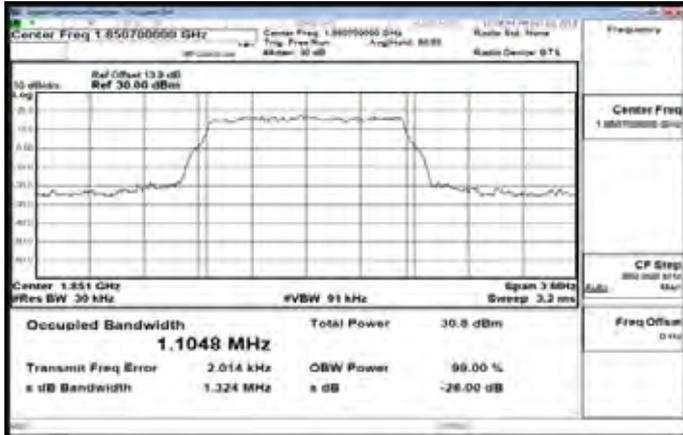


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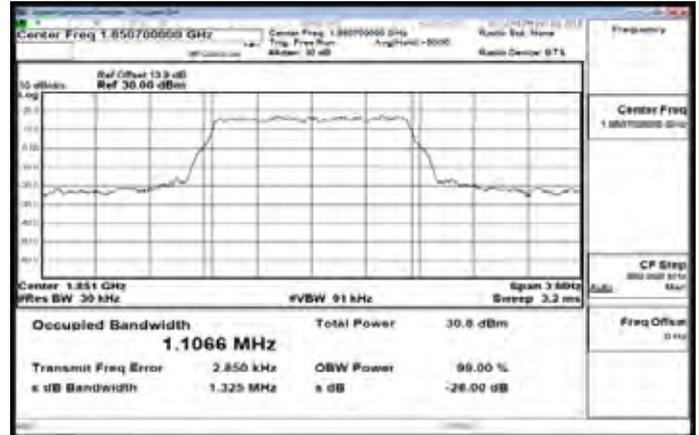
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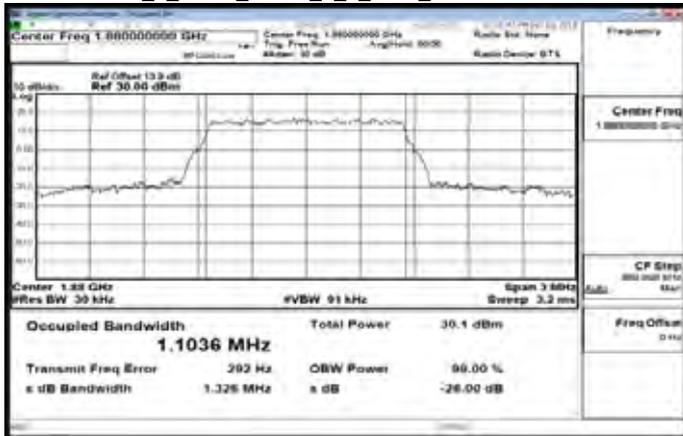
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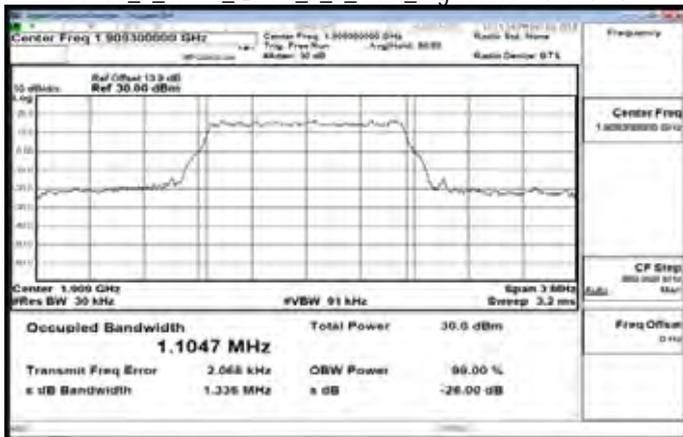
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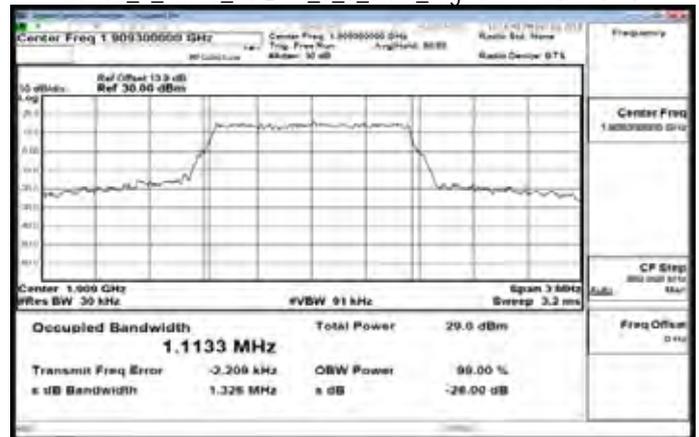
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Band2_1_4MHz_QPSK_6_0_Main_HighCH19193-1909.3



Band2_1_4MHz_16QAM_6_0_Main_HighCH19193-1909.3



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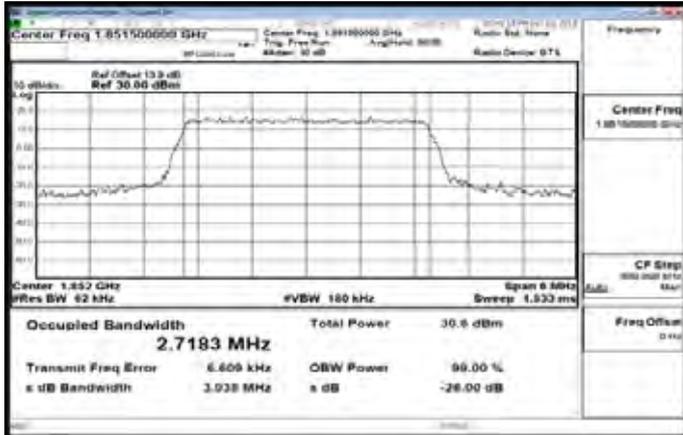
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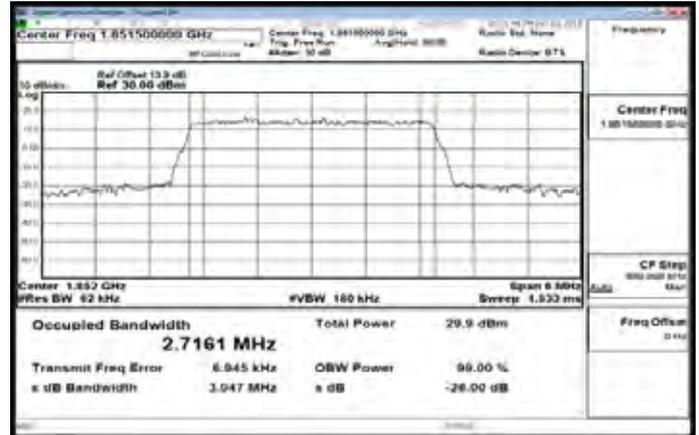
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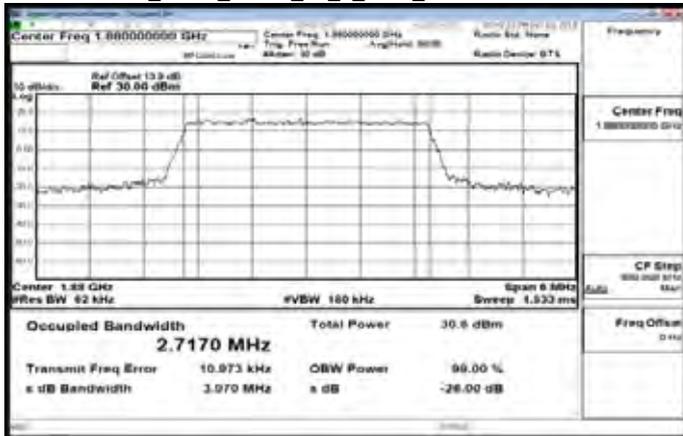
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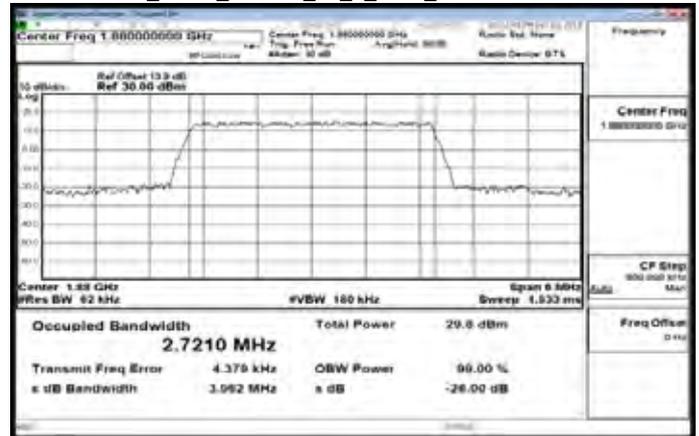
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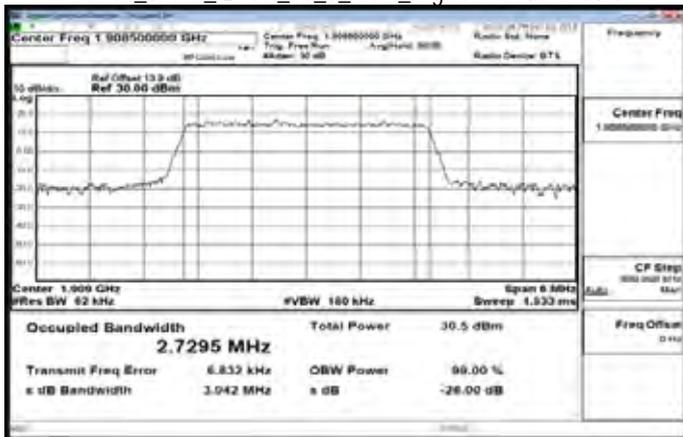
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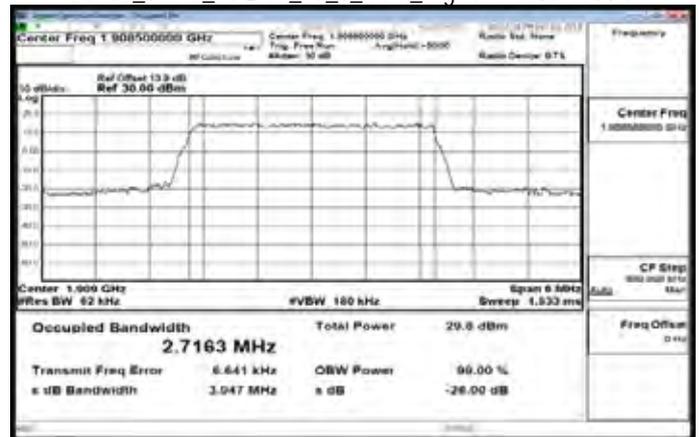
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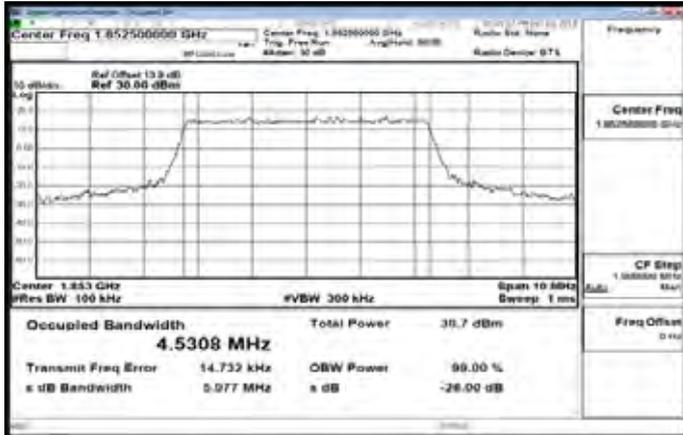
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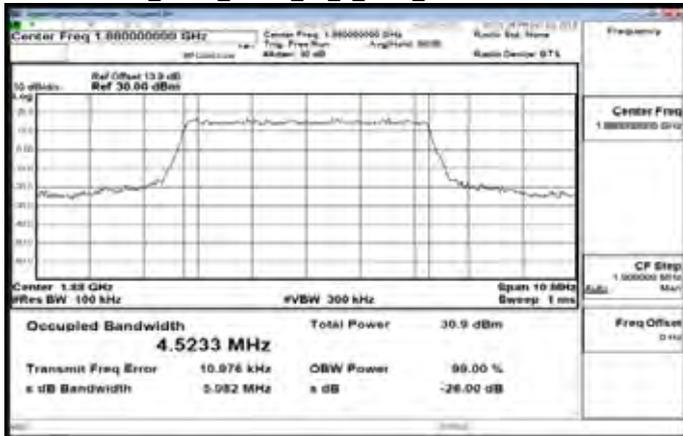
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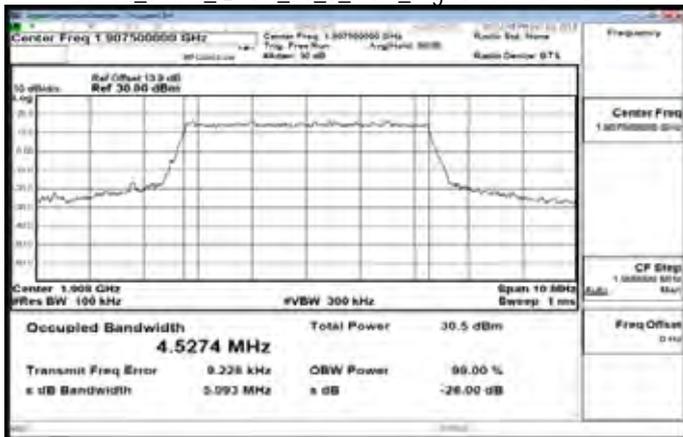
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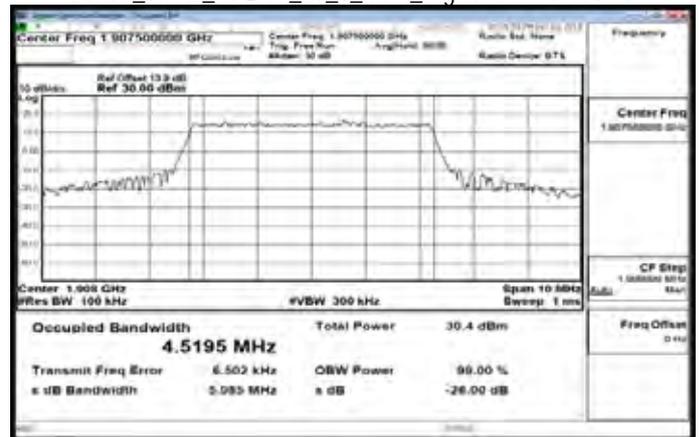
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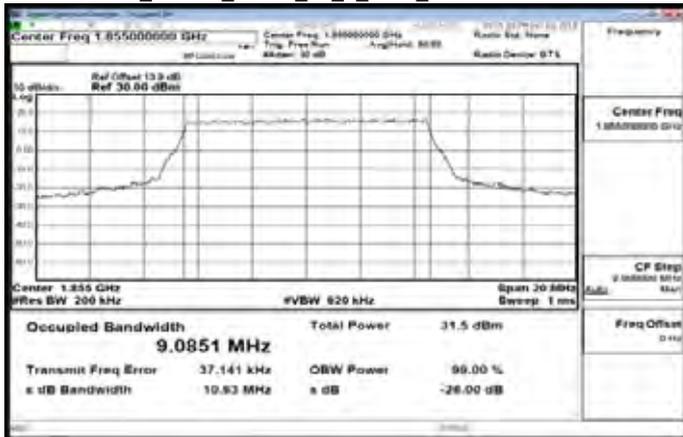
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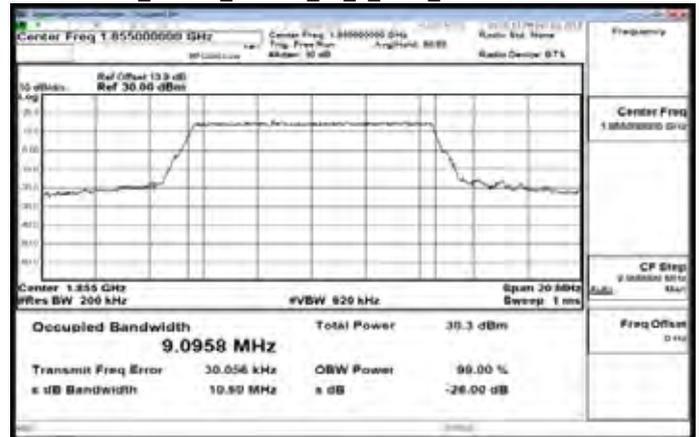
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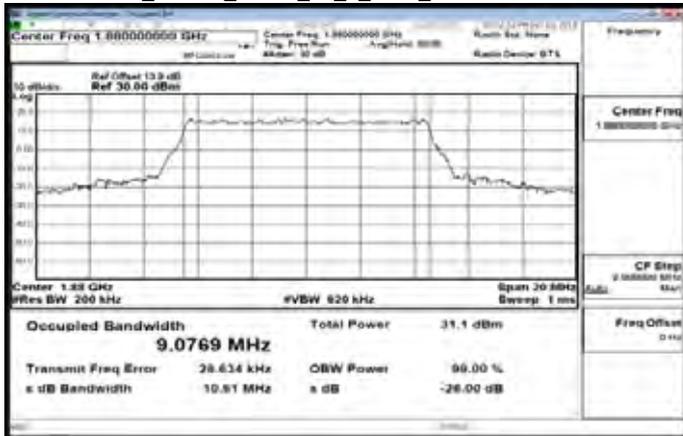
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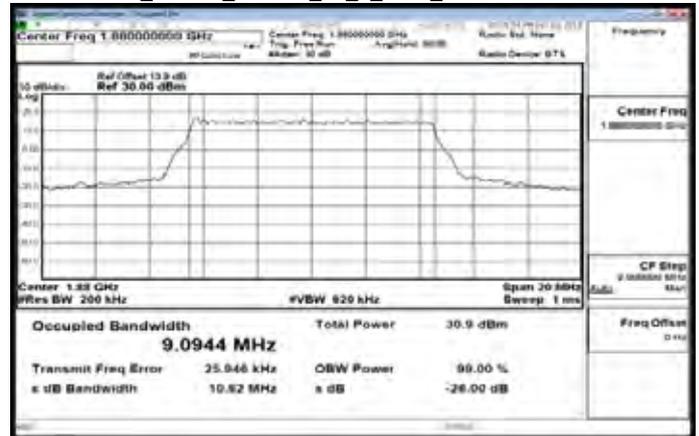
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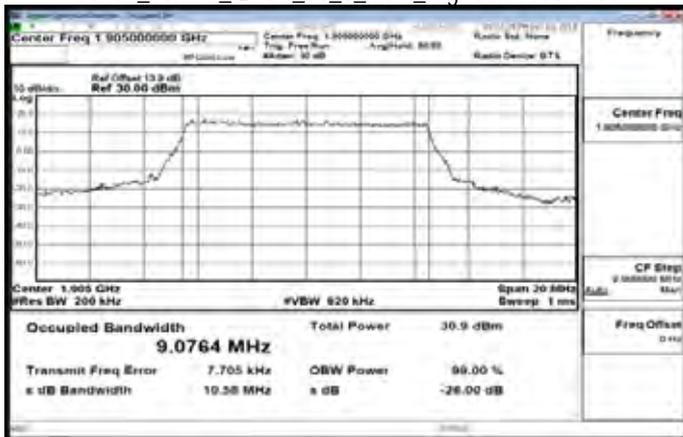
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Band2_10MHz_QPSK_50_0_Main_HighCH19150-1905



Band2_10MHz_16QAM_50_0_Main_HighCH19150-1905



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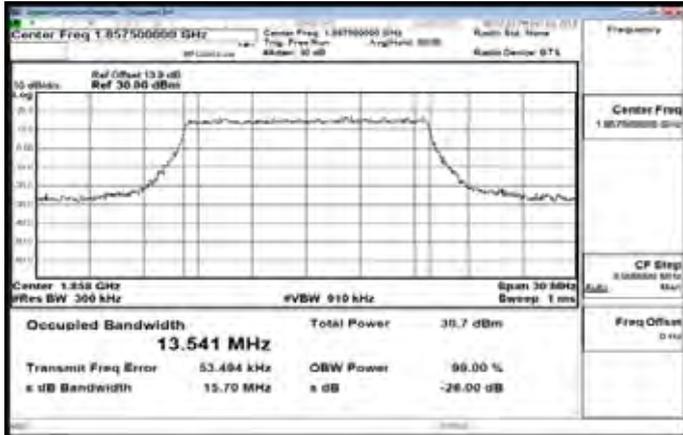
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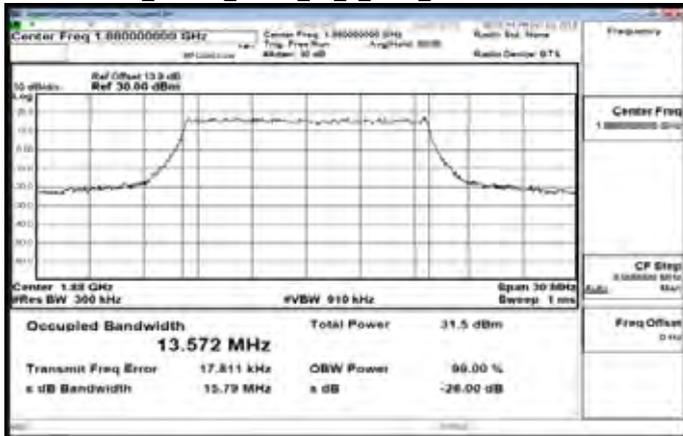
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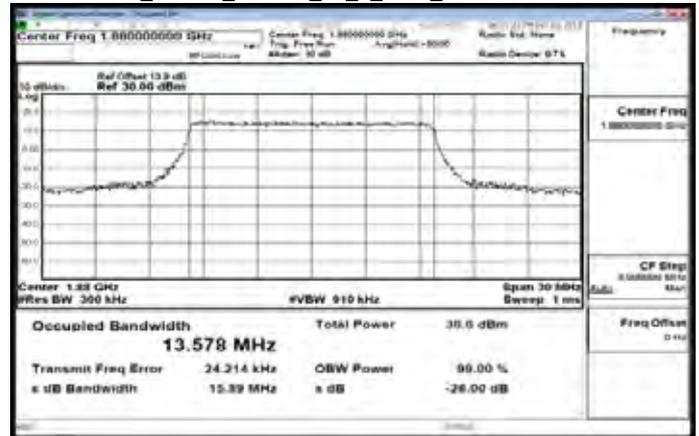
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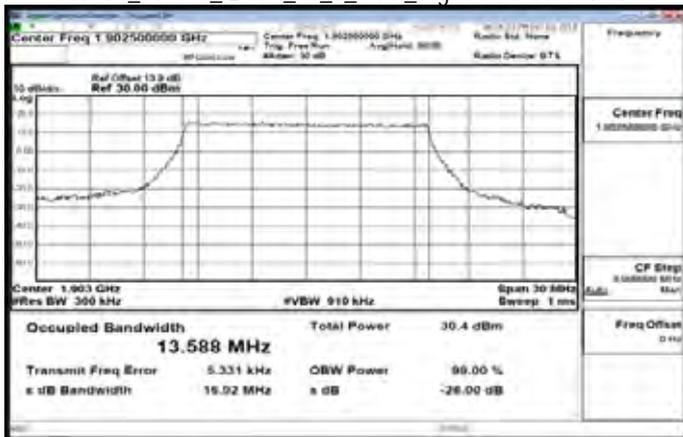
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Band2_15MHz_QPSK_75_0_Main_HighCH19125-1902.5



Band2_15MHz_16QAM_75_0_Main_HighCH19125-1902.5



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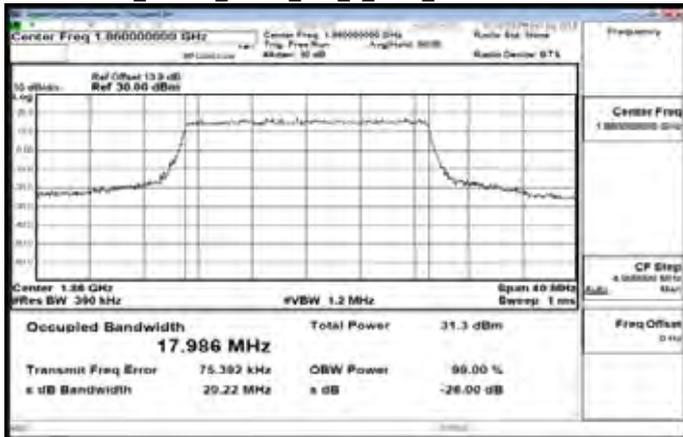
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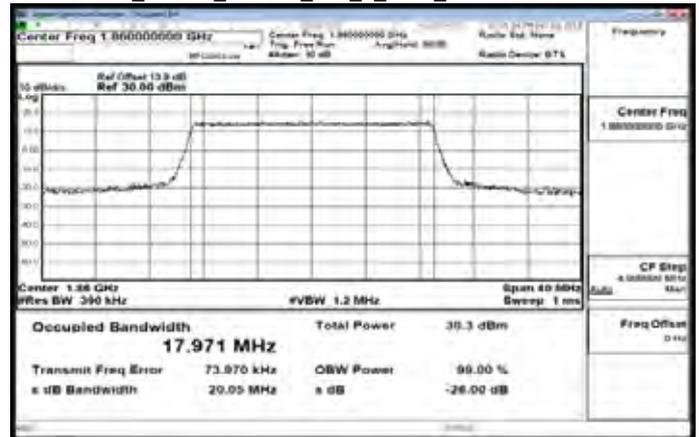
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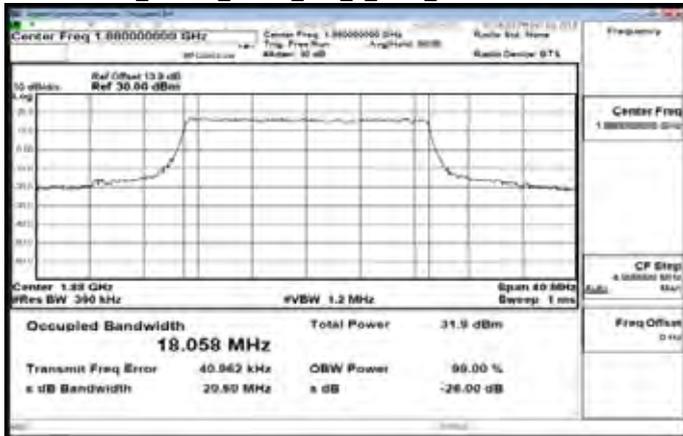
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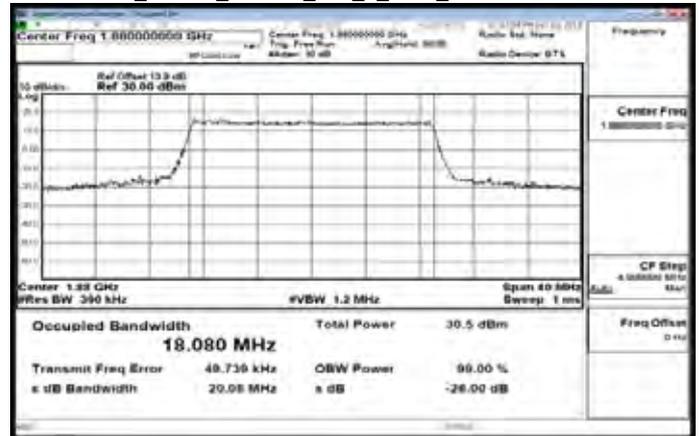
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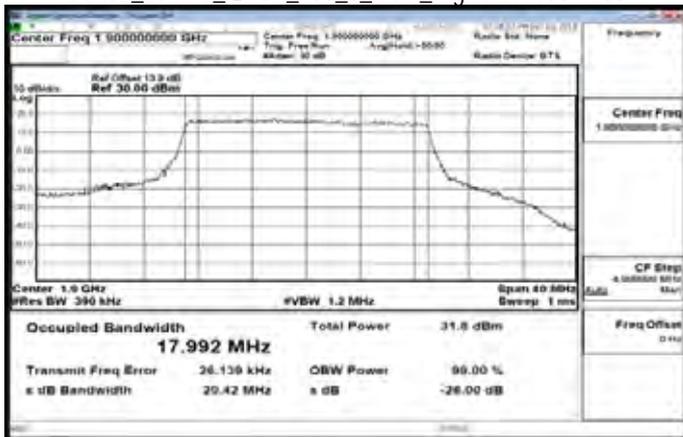
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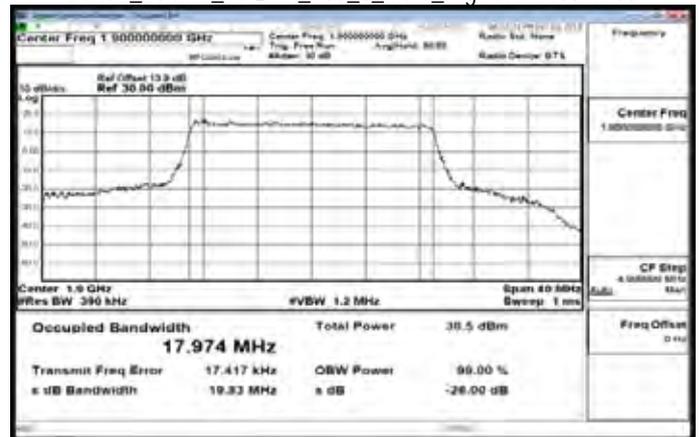
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Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900



Band2_20MHz_16QAM_100_0_Main_HighCH19100-1900



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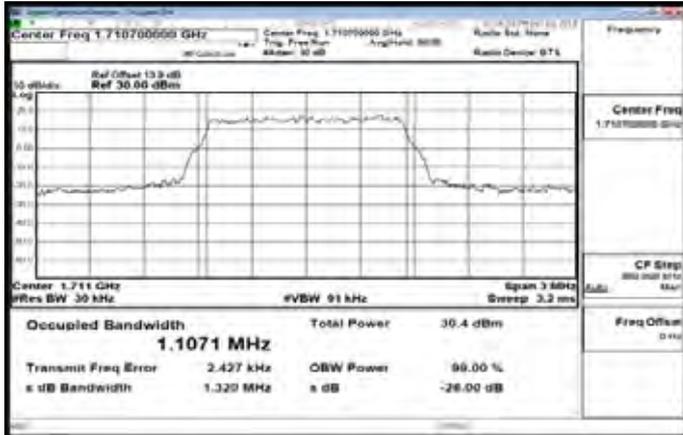
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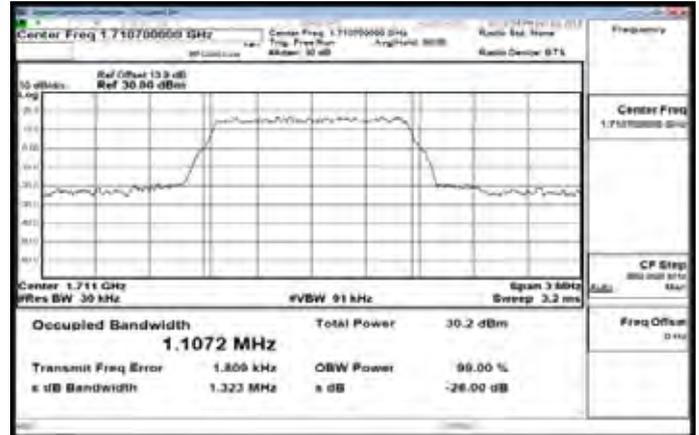
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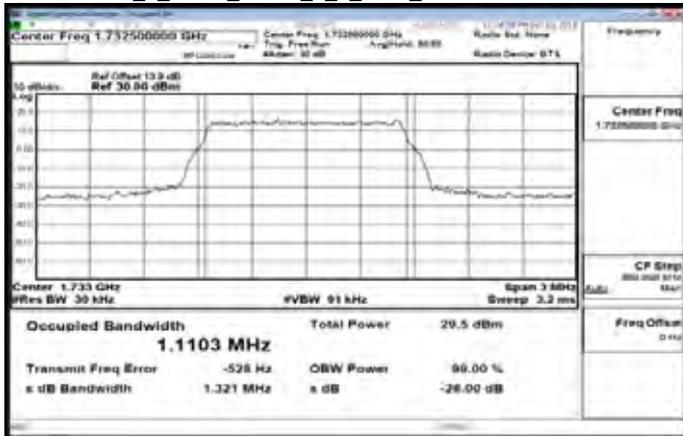
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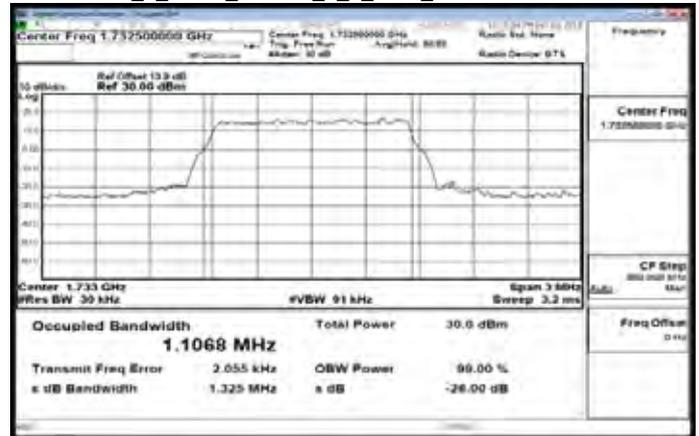
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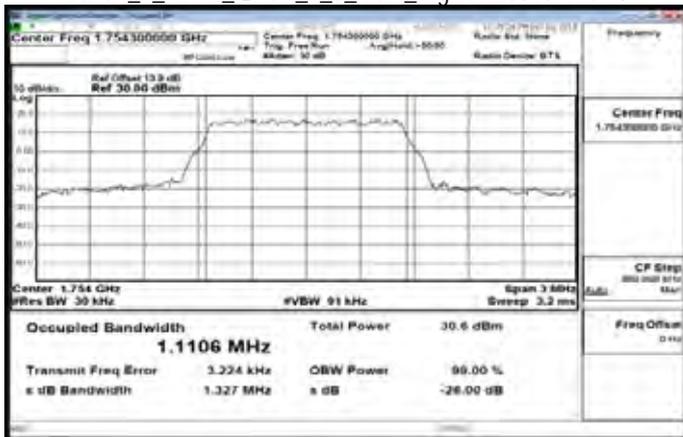
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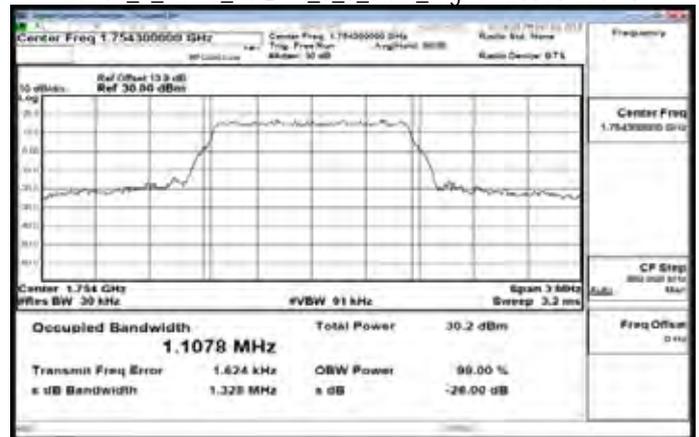
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Band4_1_4MHz_16QAM_6_0_Main_HighCH20393-1754.3



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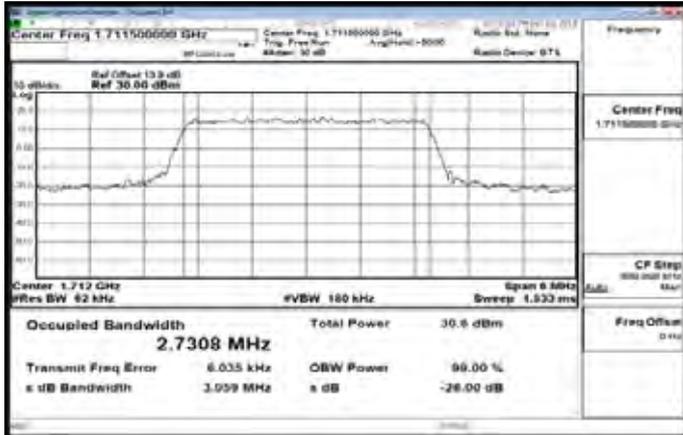
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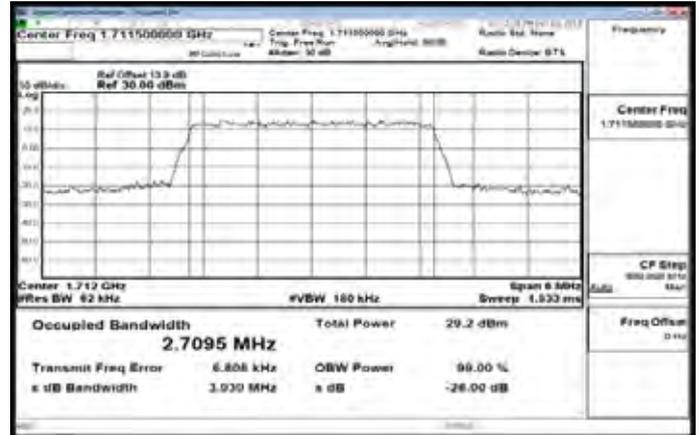
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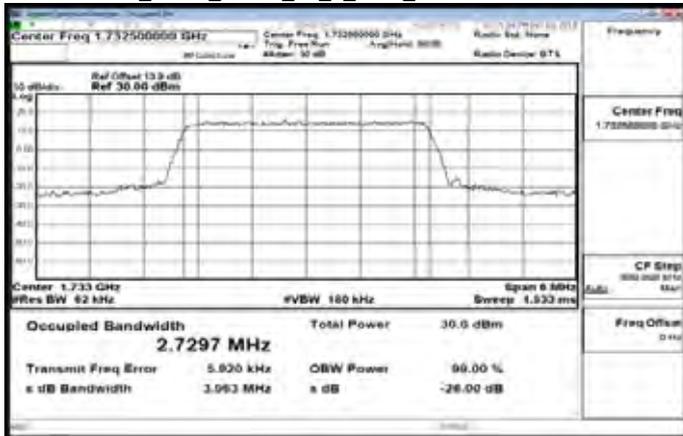
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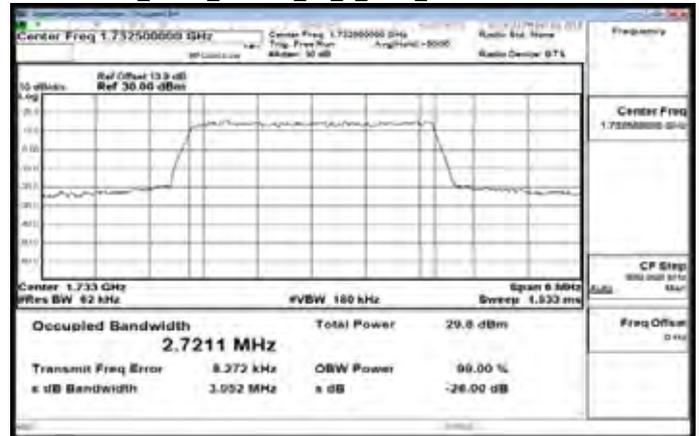
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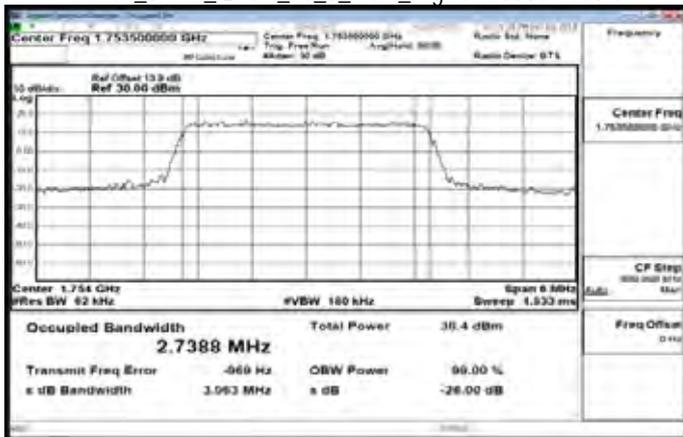
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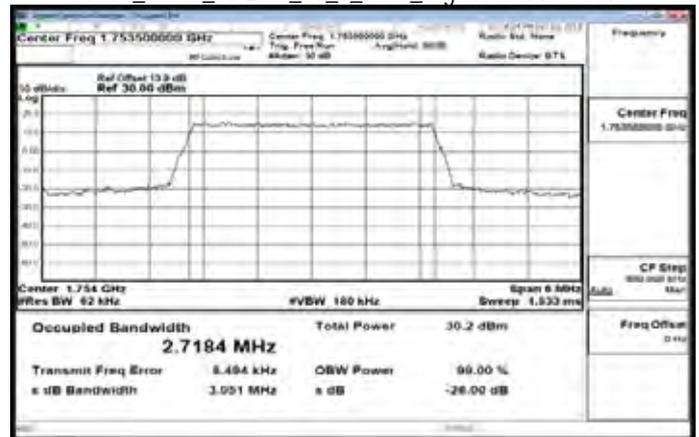
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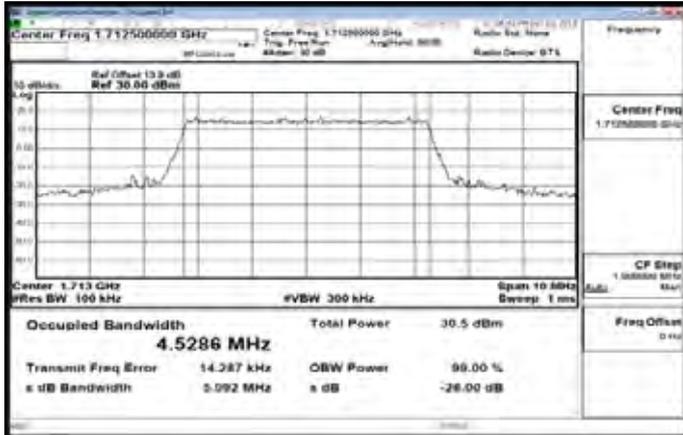
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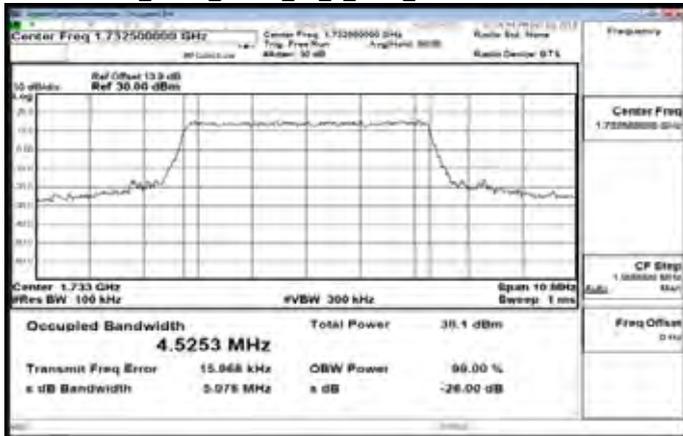
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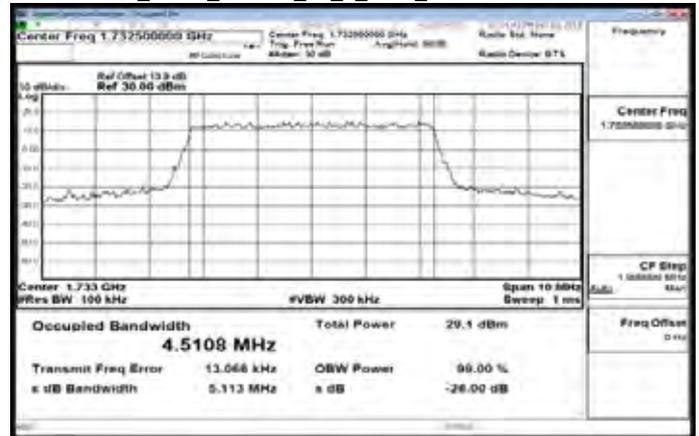
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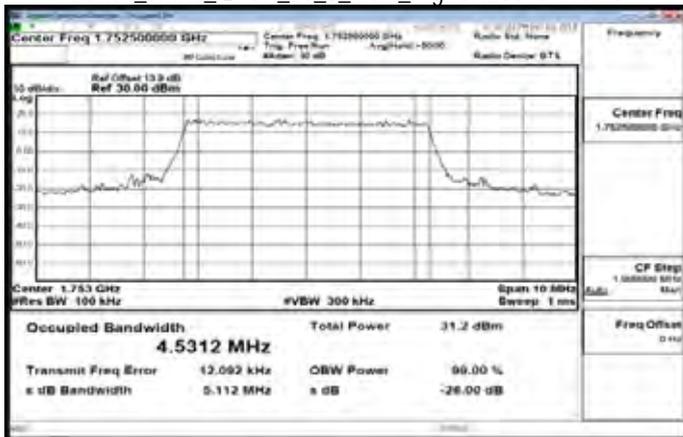
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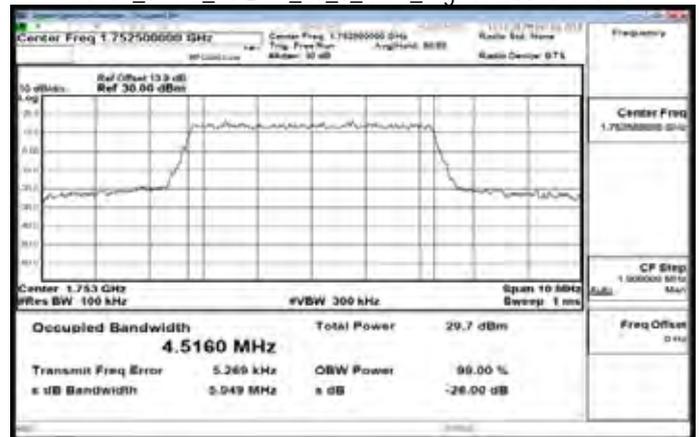
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Band4_5MHz_16QAM_25_0_Main_HighCH20375-1752.5



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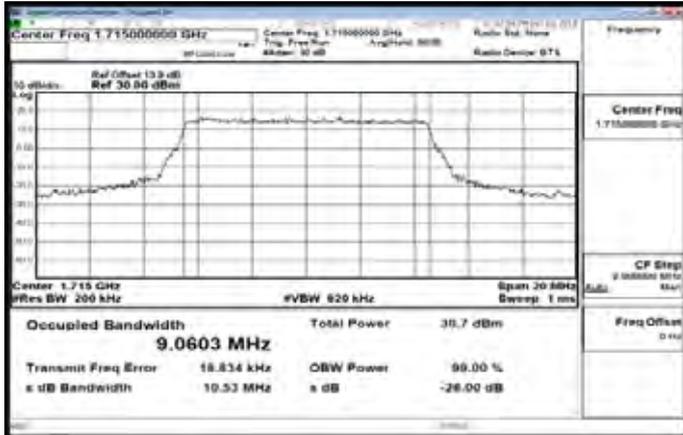
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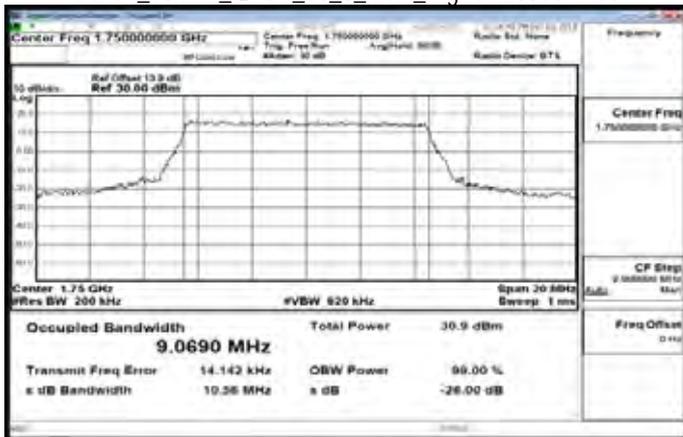
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Band4_10MHz_16QAM_50_0_Main_HighCH20350-1750



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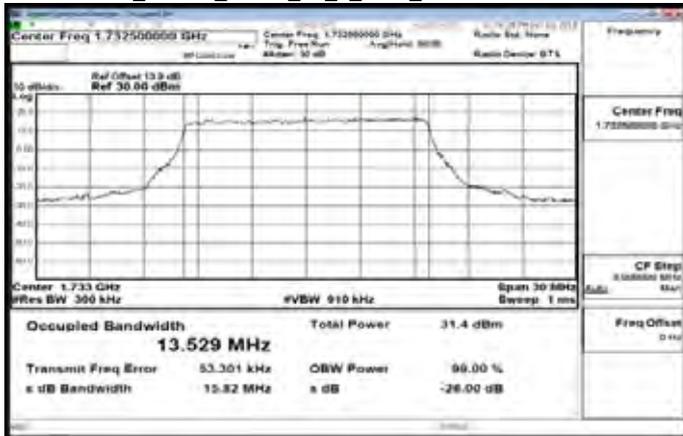
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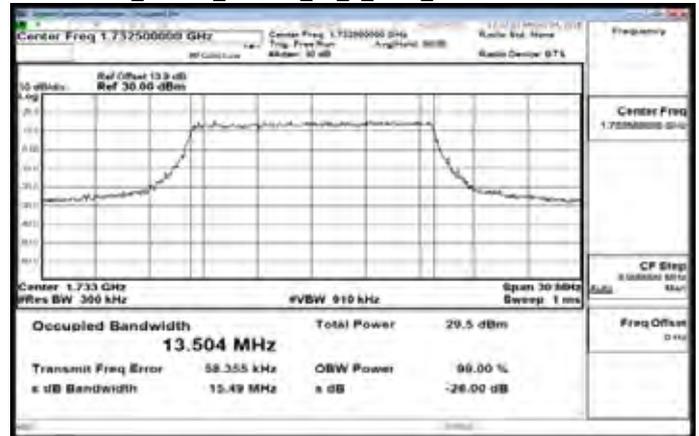
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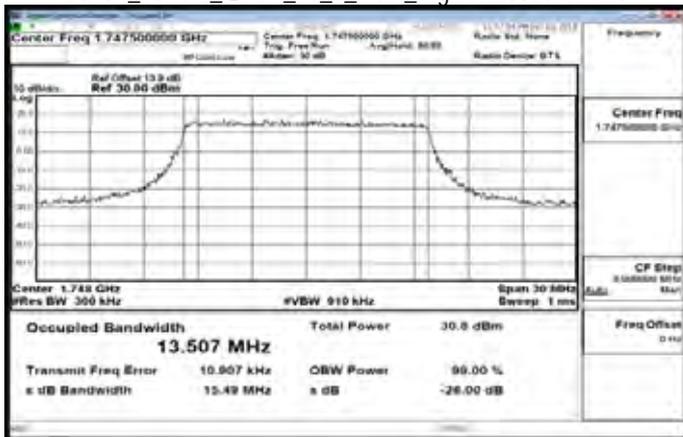
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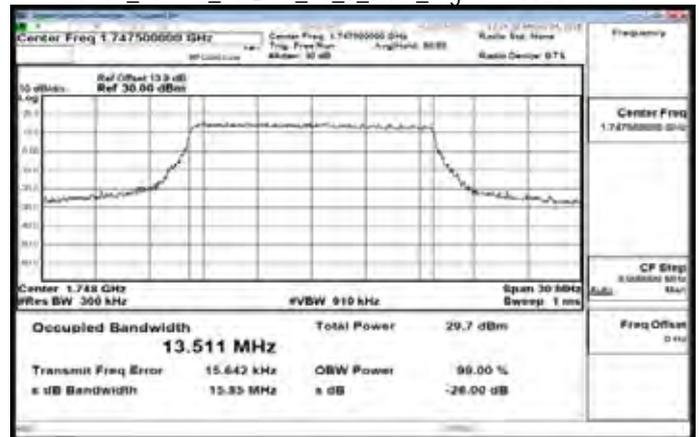
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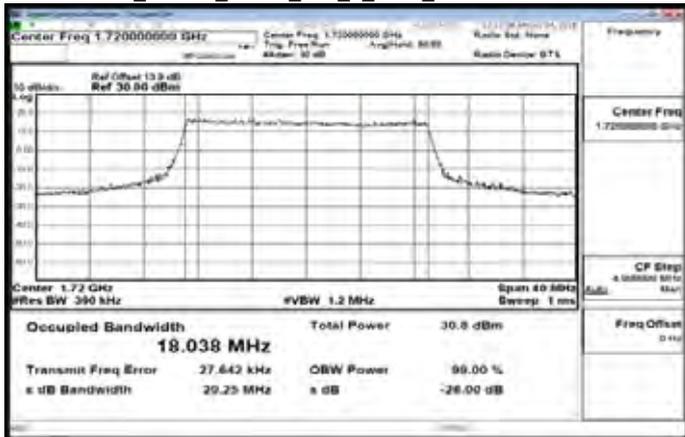
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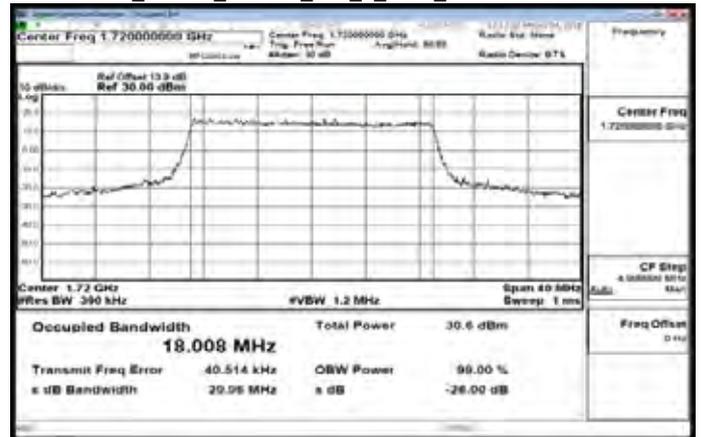
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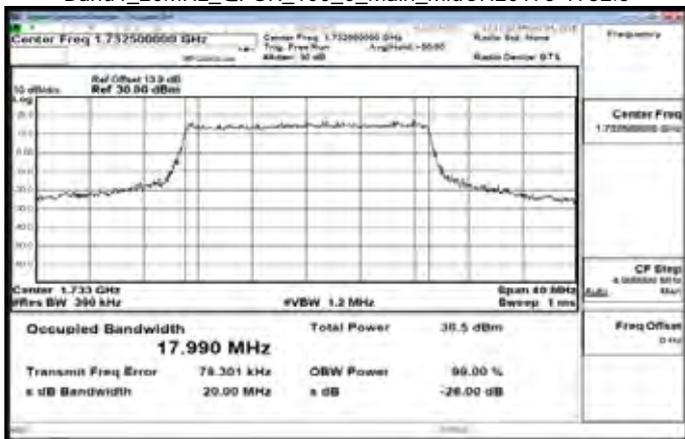
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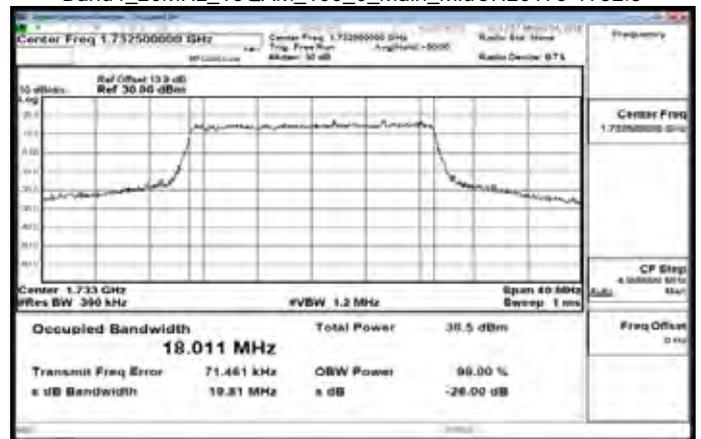
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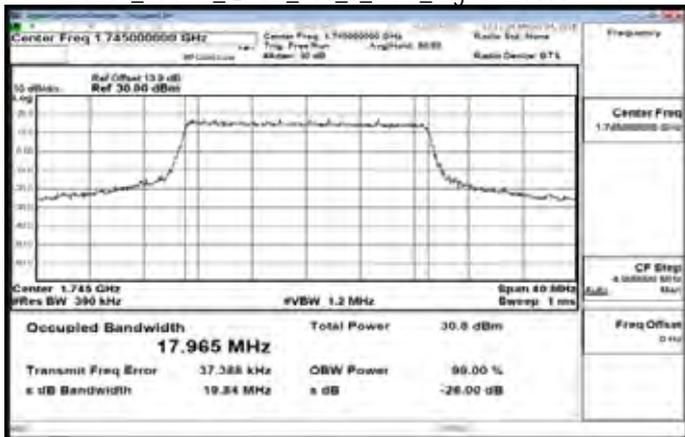
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Band4_20MHz_QPSK_100_0_Main_HighCH20300-1745



Band4_20MHz_16QAM_100_0_Main_HighCH20300-1745



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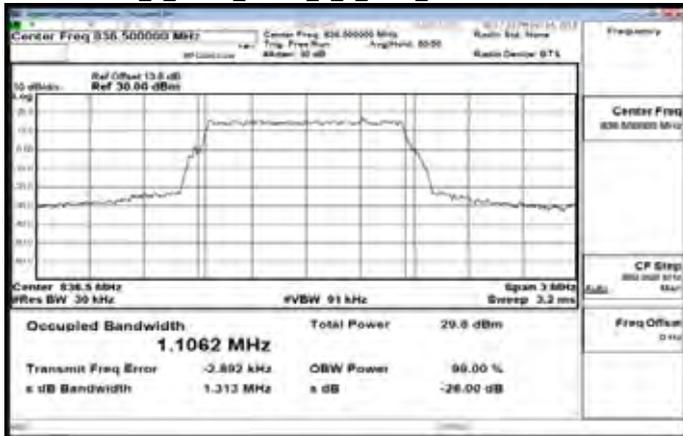
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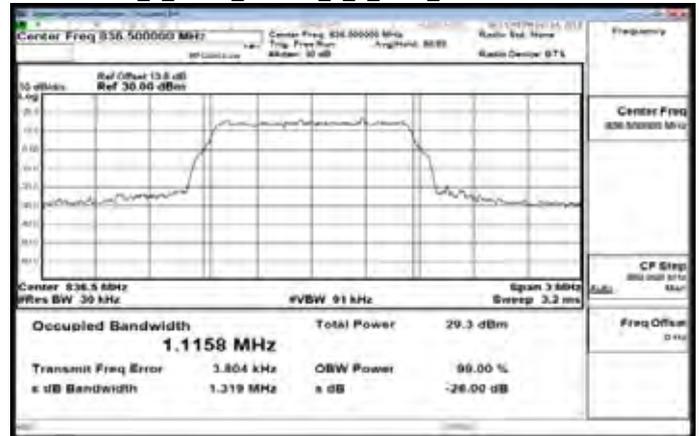
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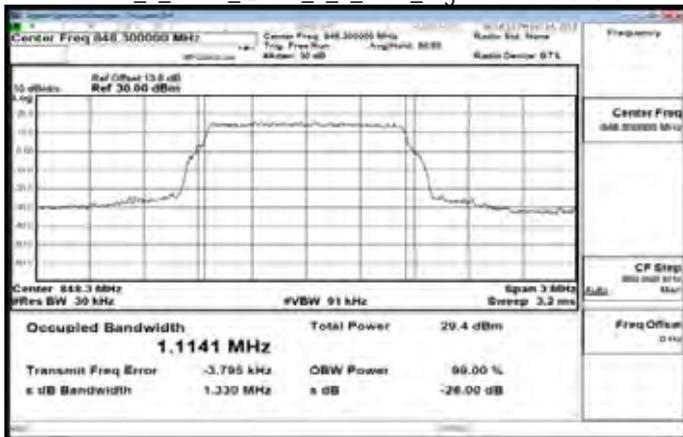
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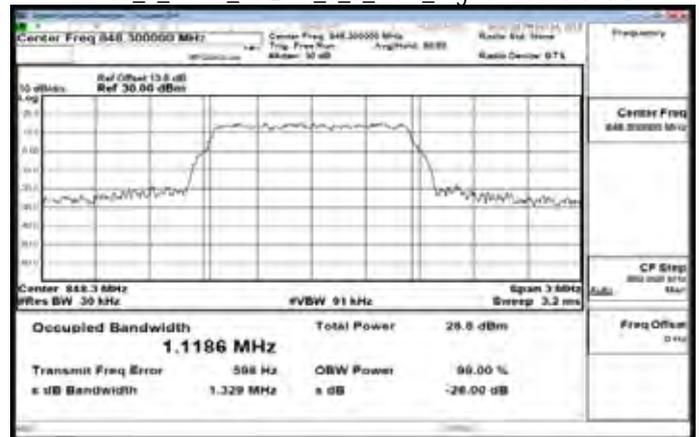
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Band5_1_4MHz_QPSK_6_0_Main_HighCH20643-848.3



Band5_1_4MHz_16QAM_6_0_Main_HighCH20643-848.3



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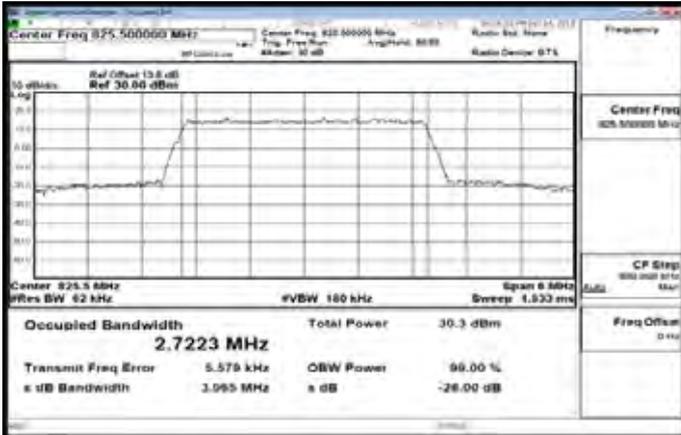
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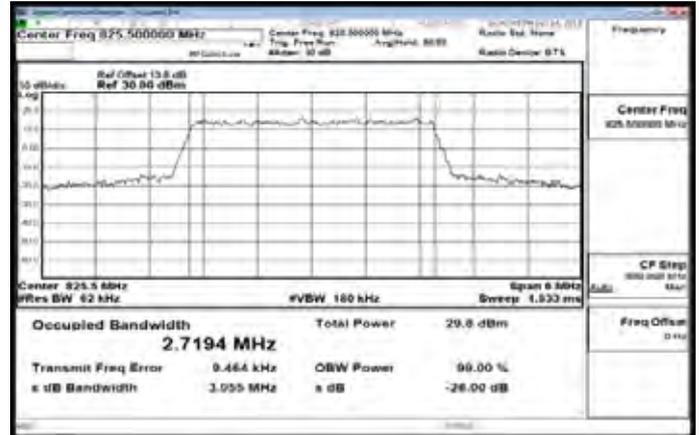
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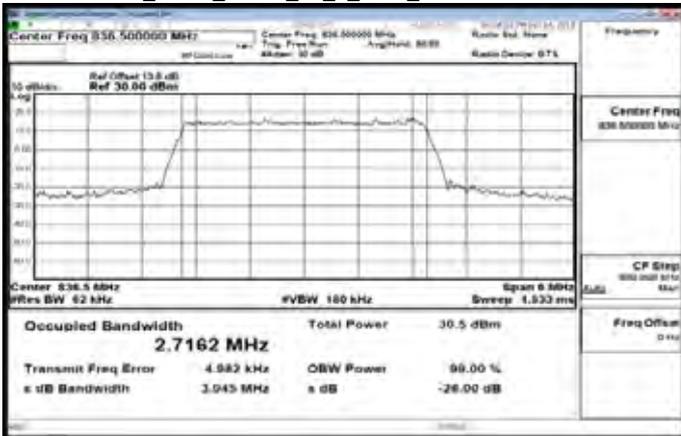
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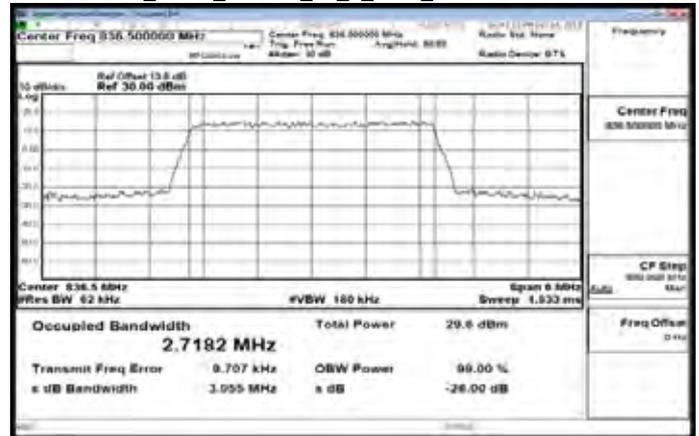
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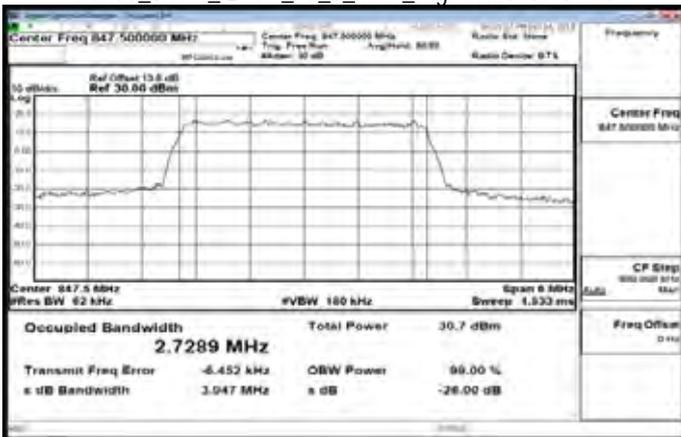
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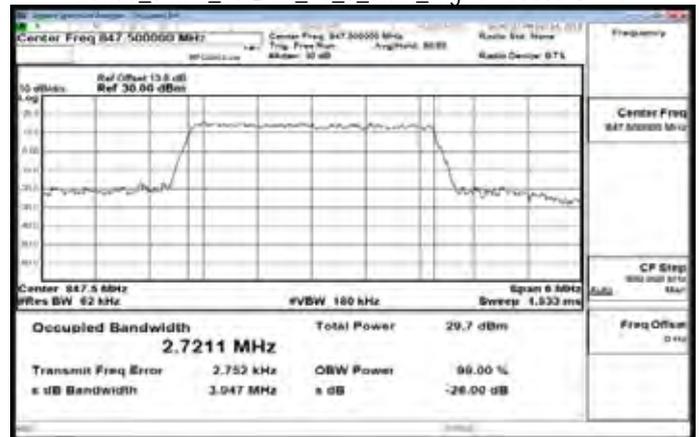
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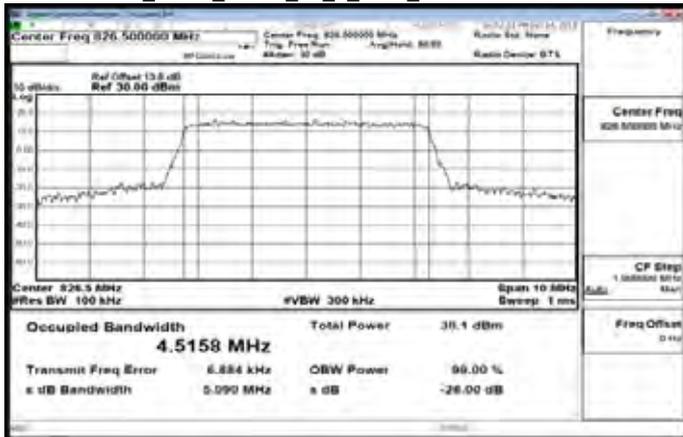
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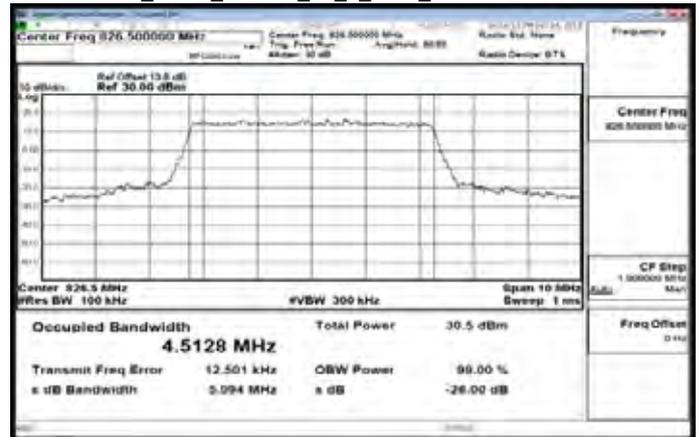
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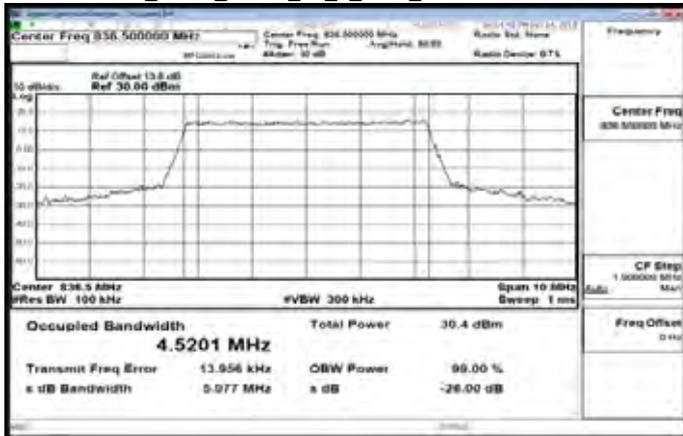
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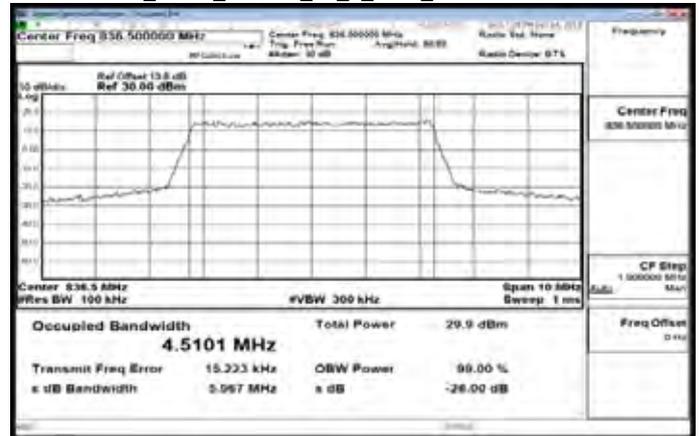
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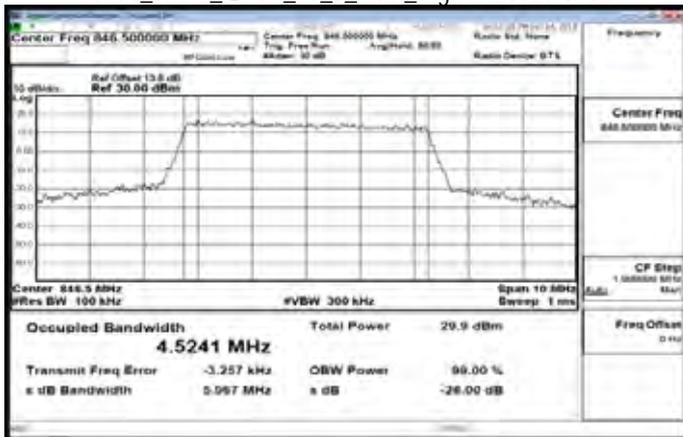
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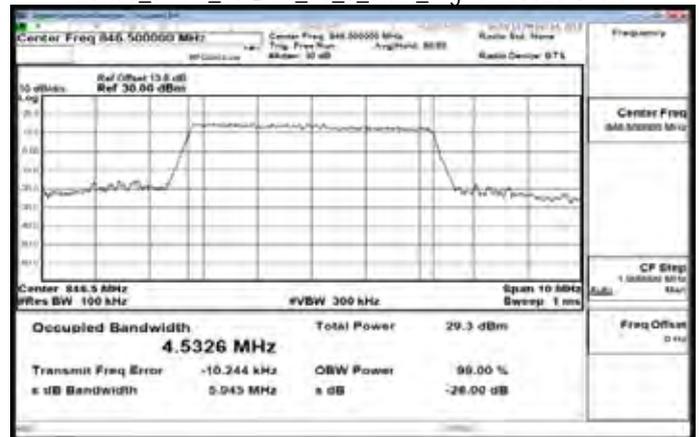
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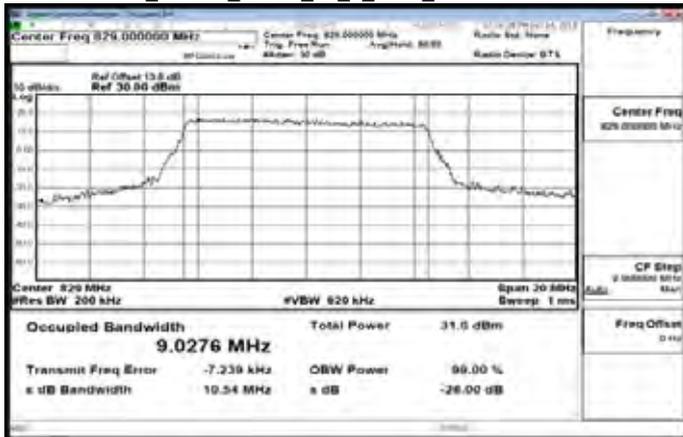
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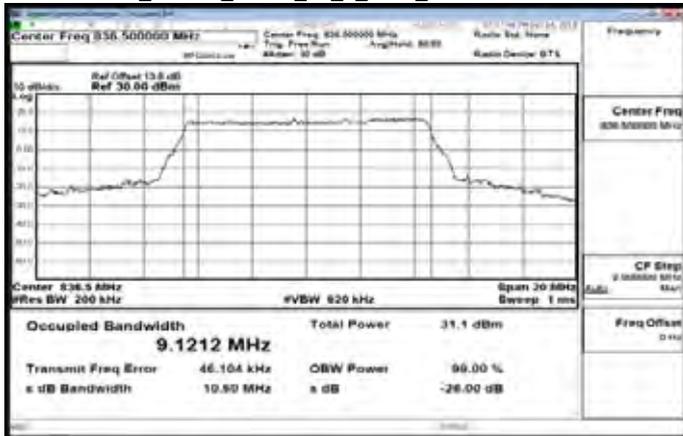
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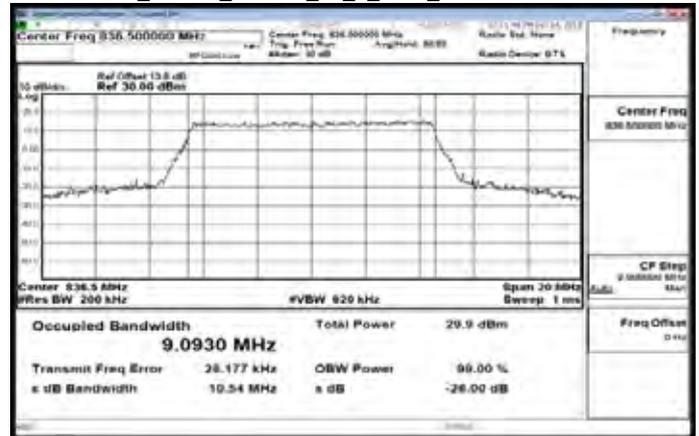
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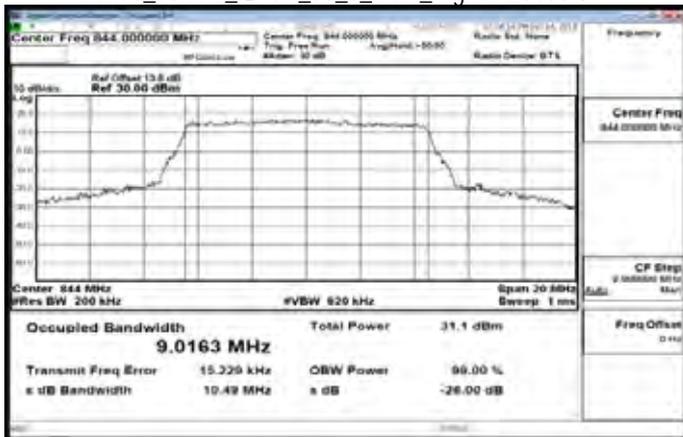
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Band5_10MHz_16QAM_50_0_Main_HighCH20600-844



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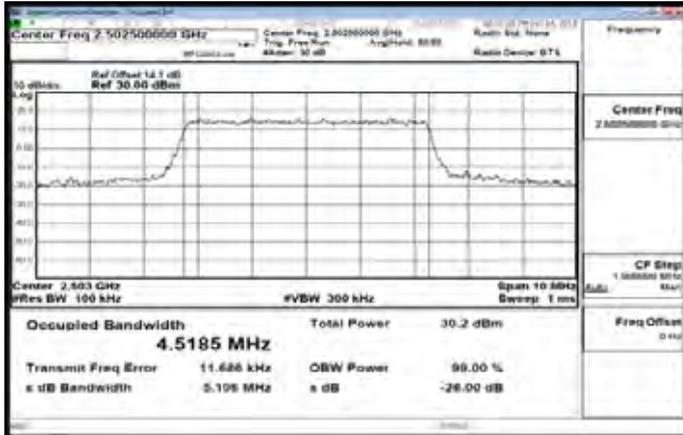
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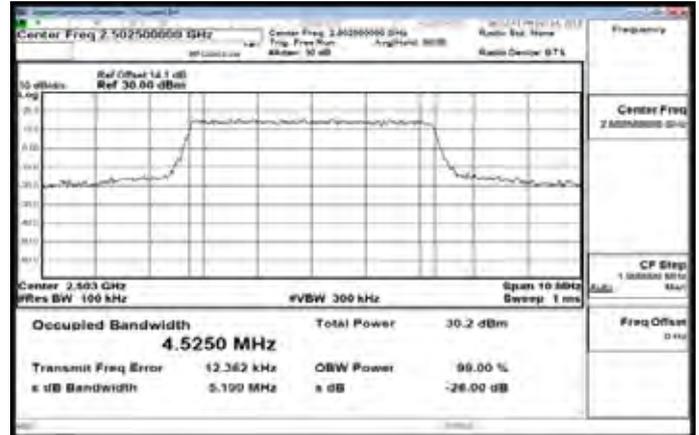
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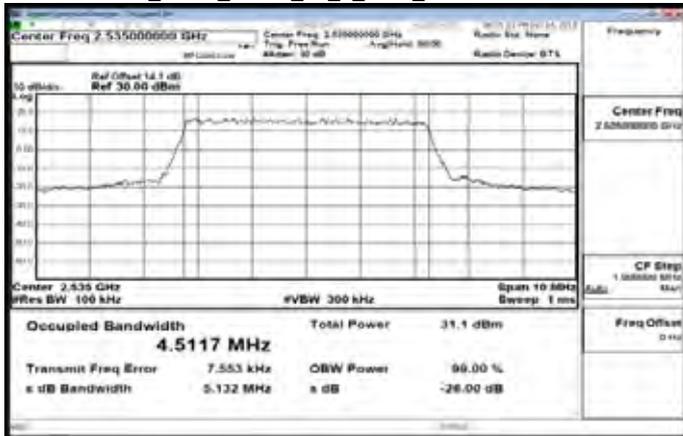
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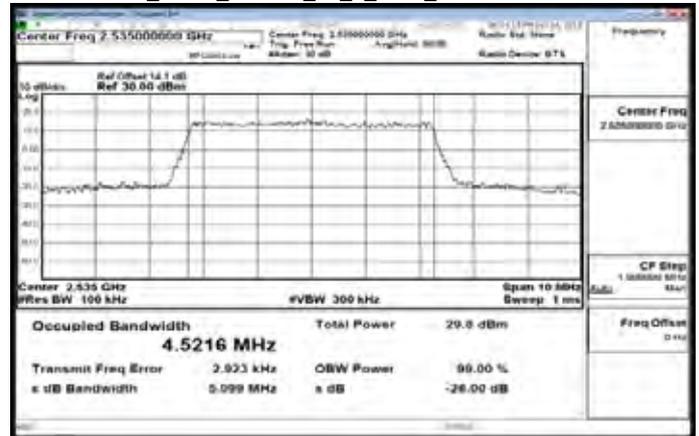
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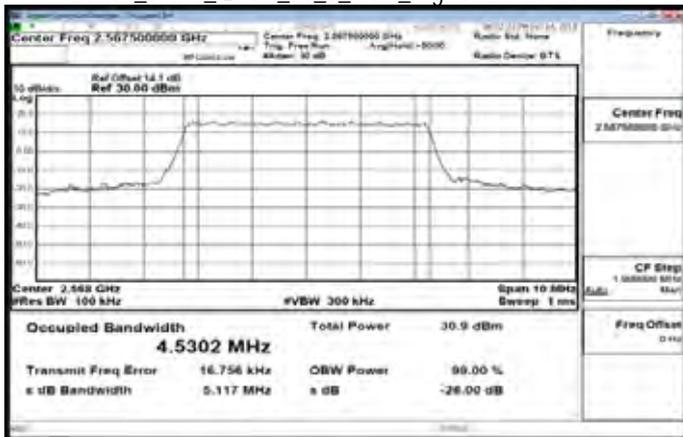
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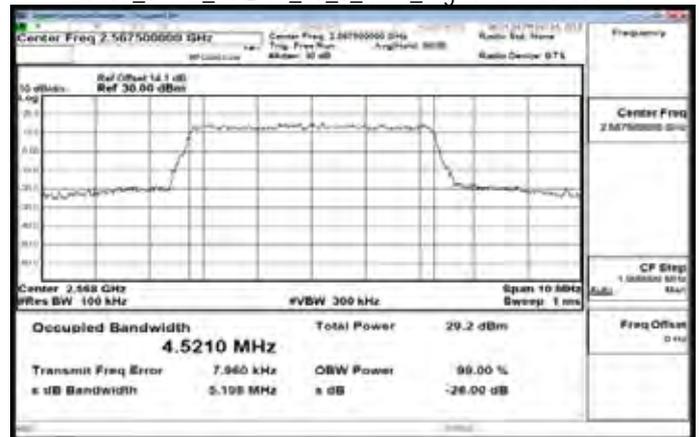
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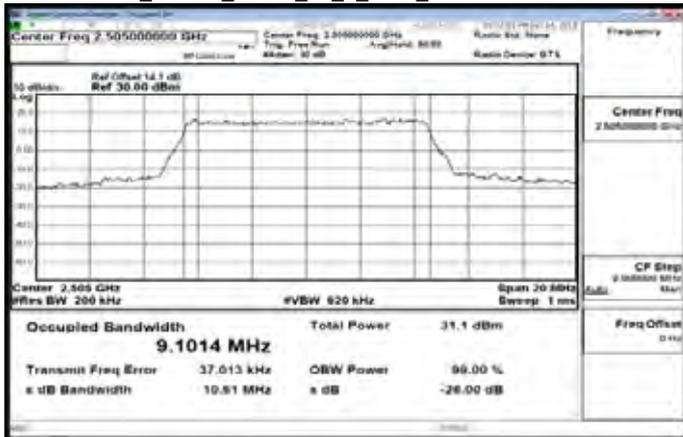
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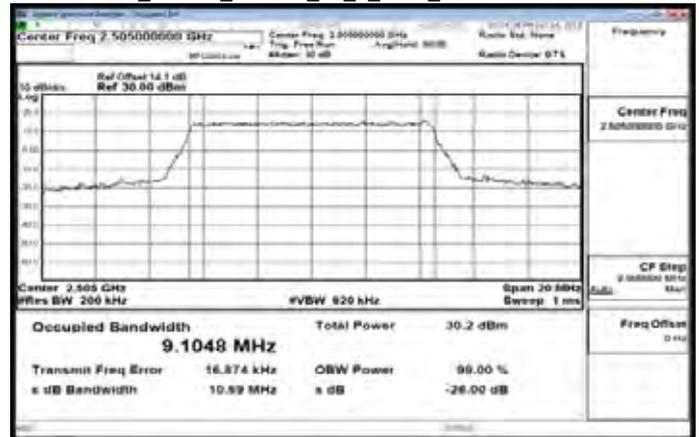
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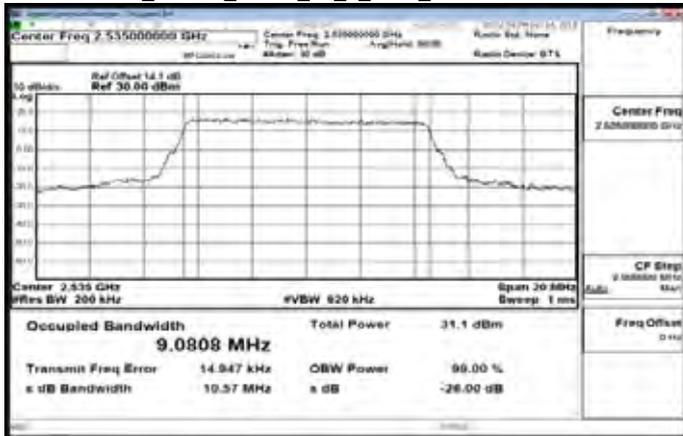
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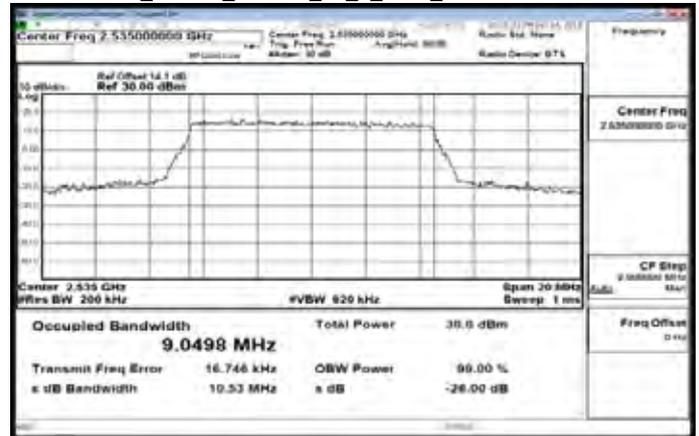
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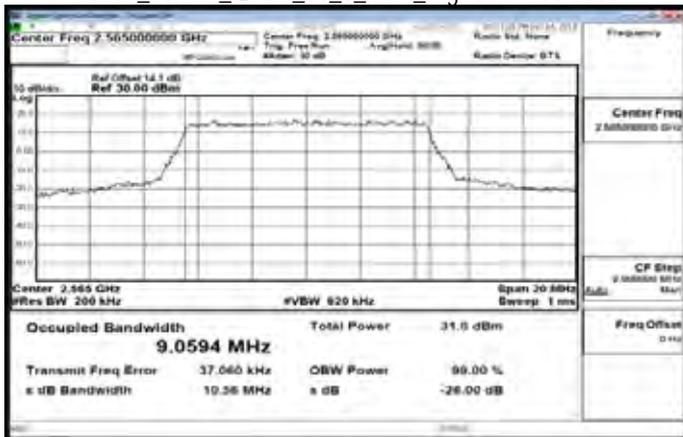
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Band7_10MHz_16QAM_50_0_Main_HighCH21400-2565



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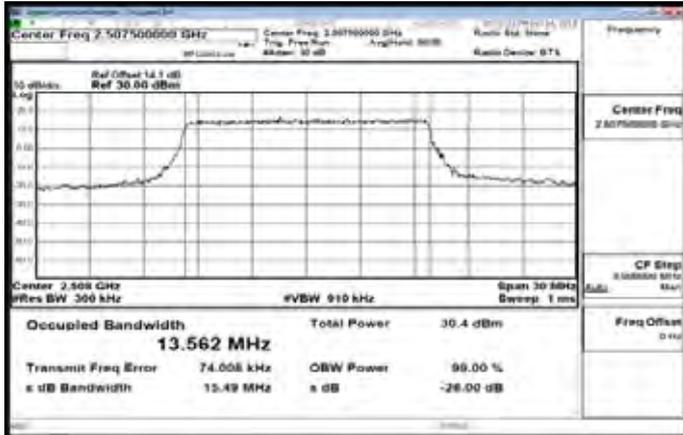
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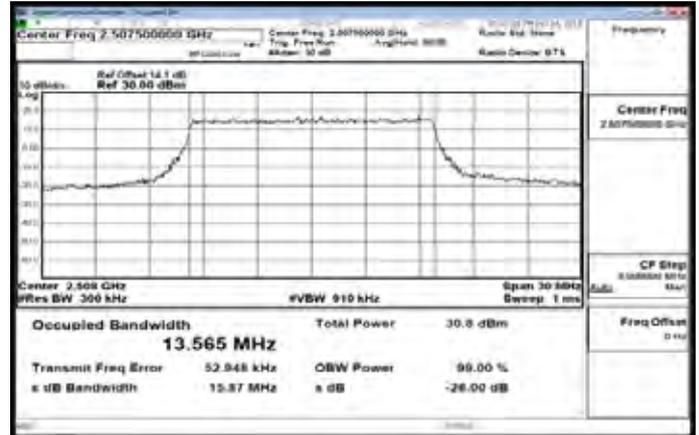
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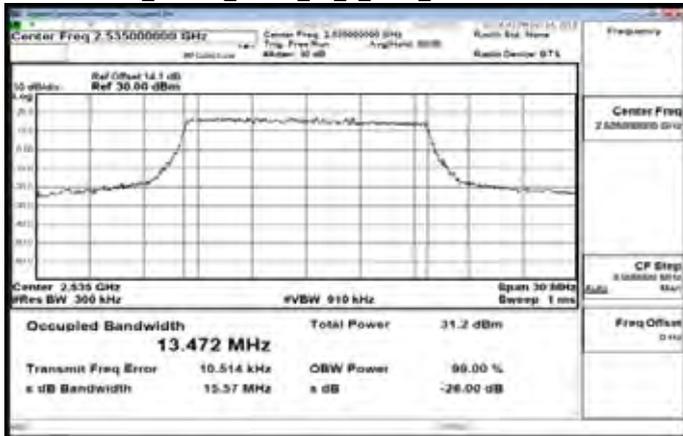
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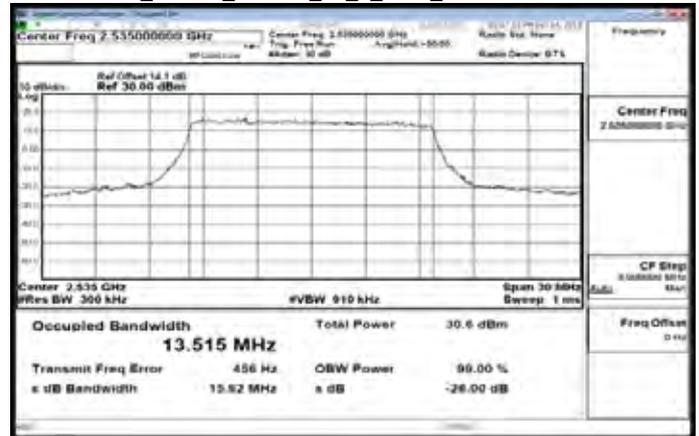
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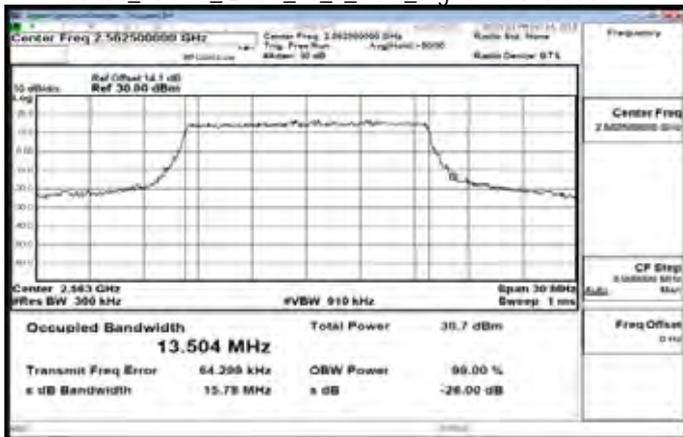
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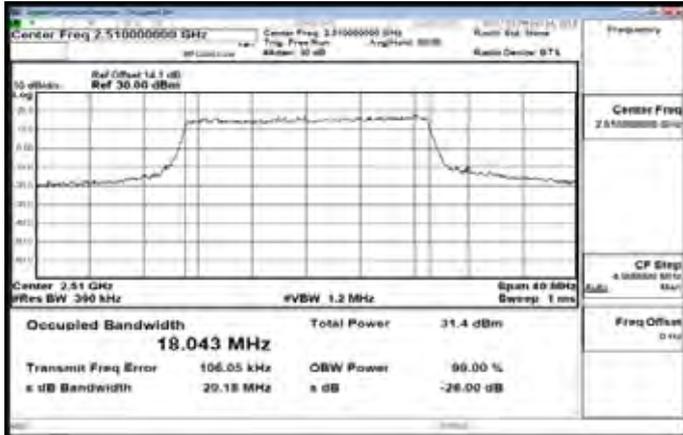
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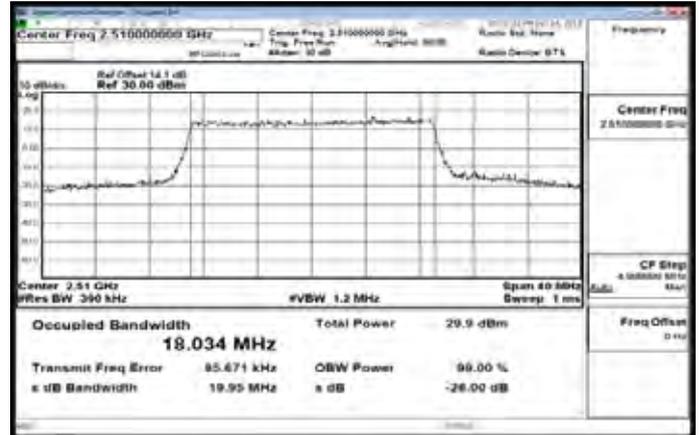
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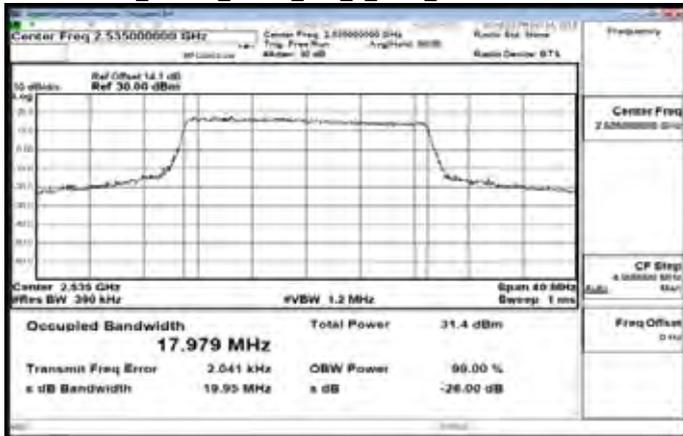
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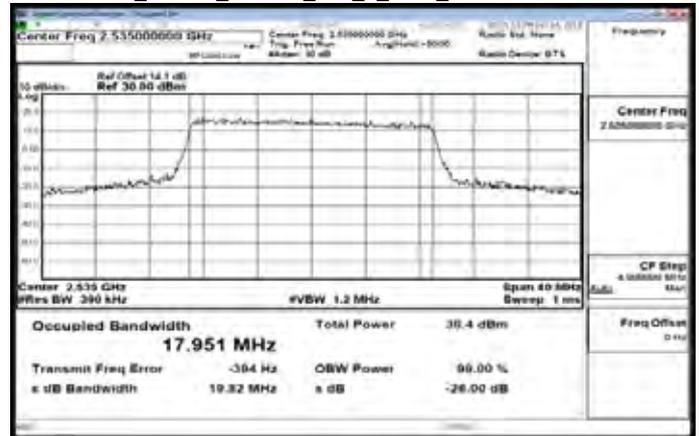
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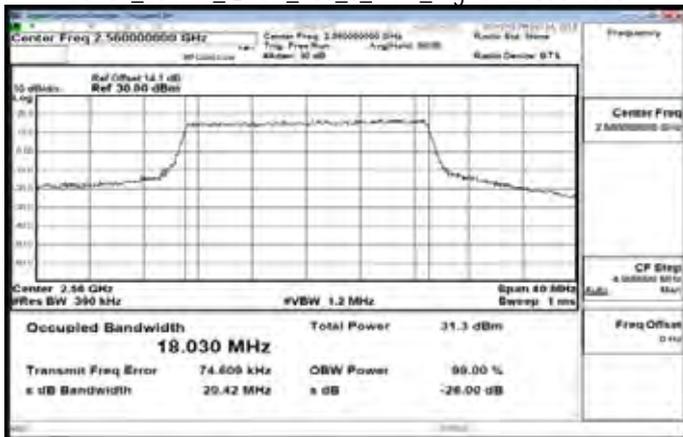
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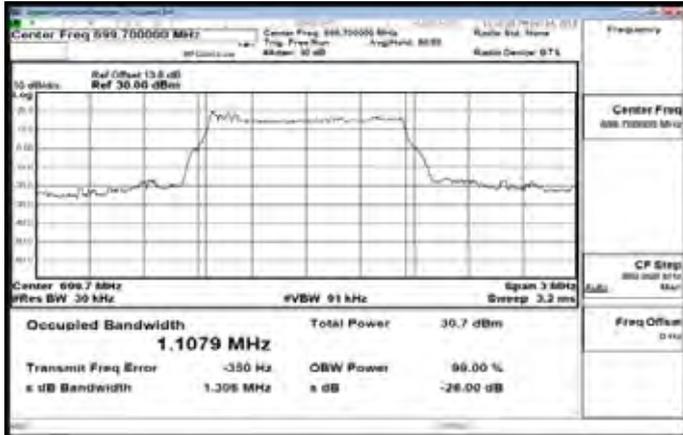
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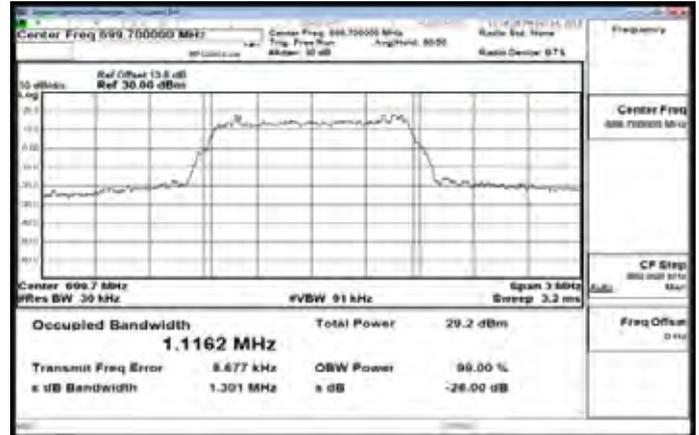
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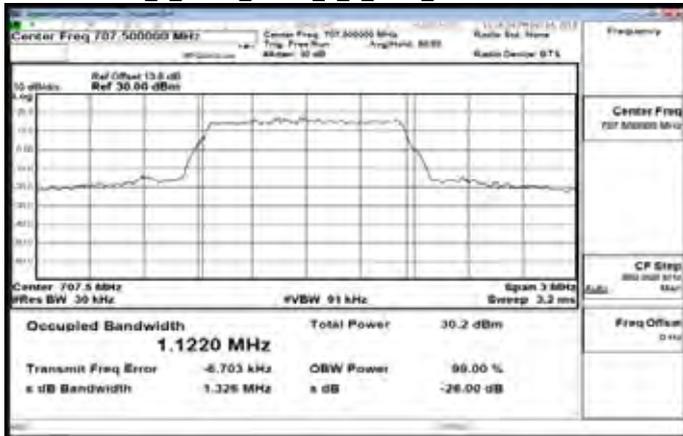
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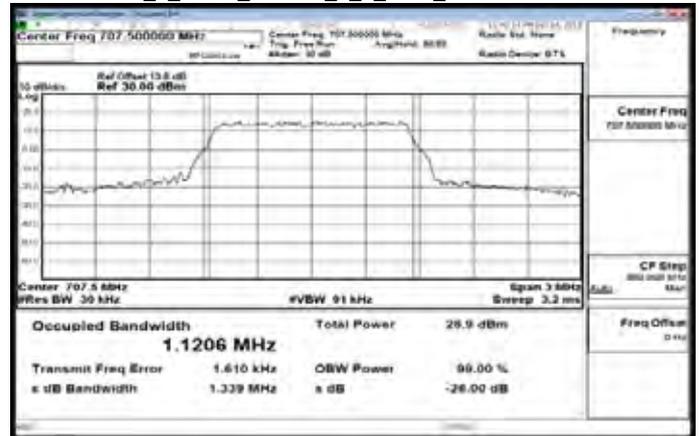
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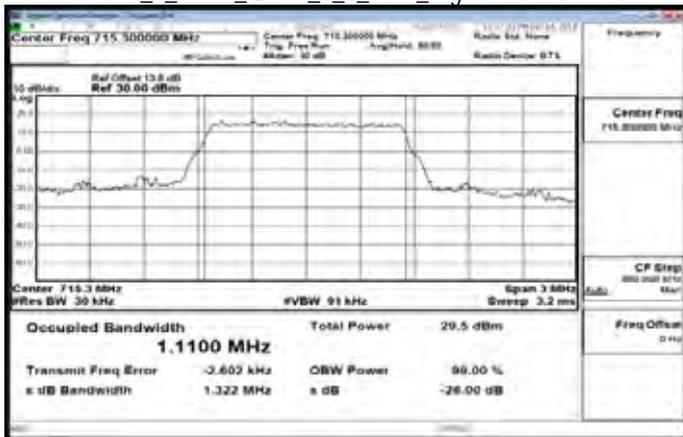
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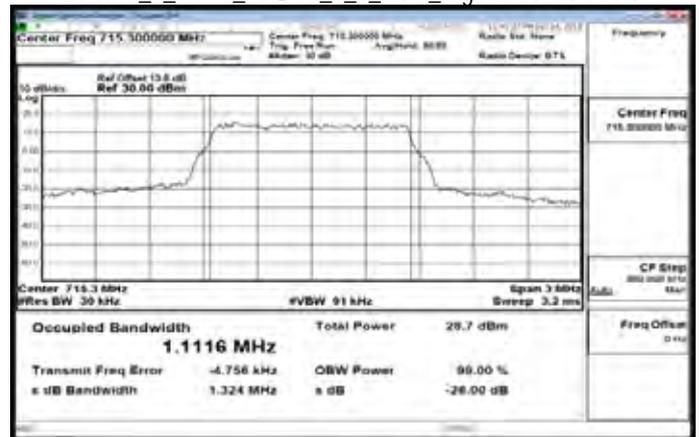
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Band12_1_4MHz_16QAM_6_0_Main_HighCH23173-715.3



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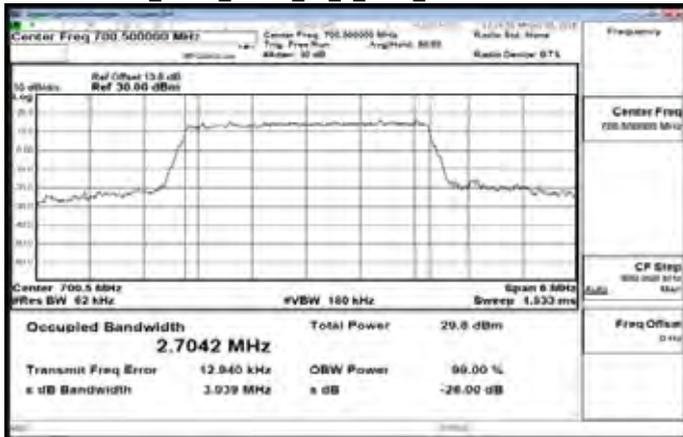
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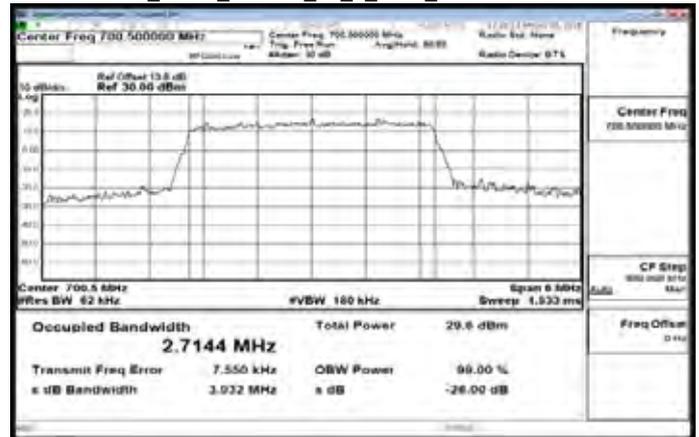
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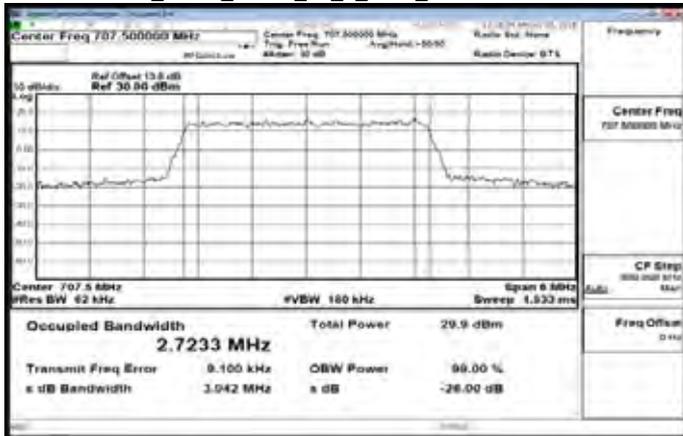
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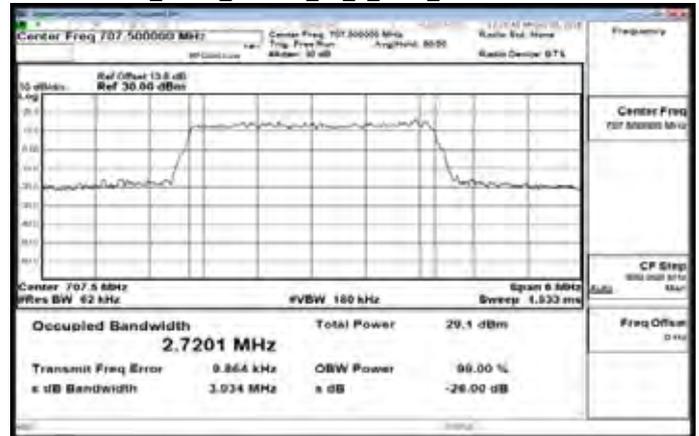
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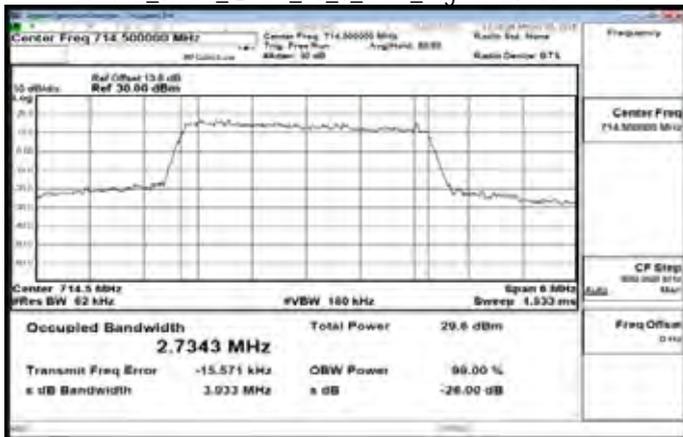
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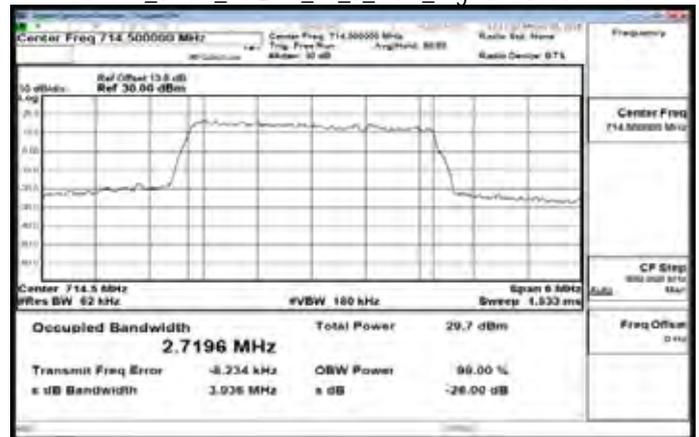
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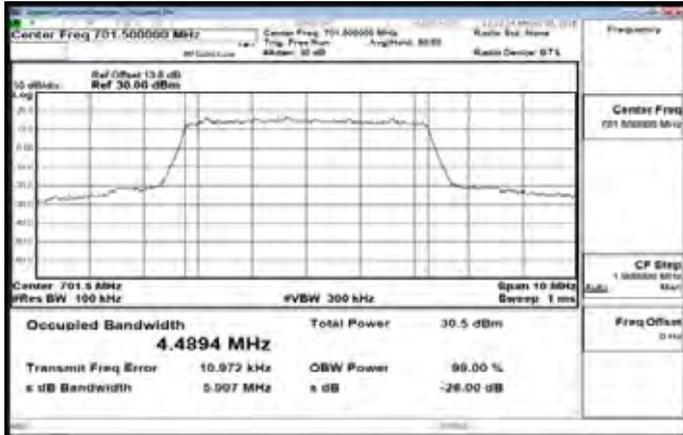
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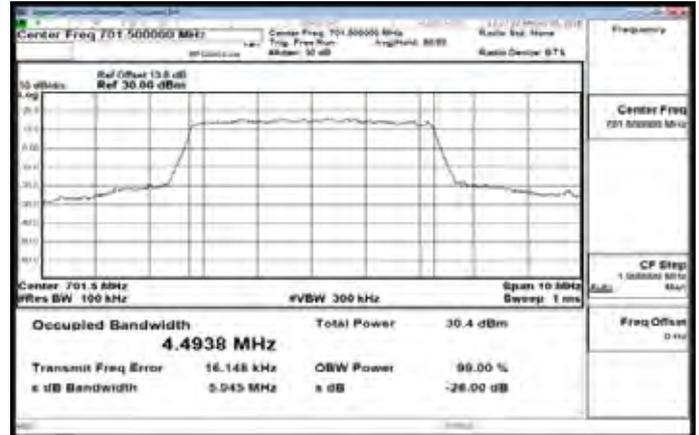
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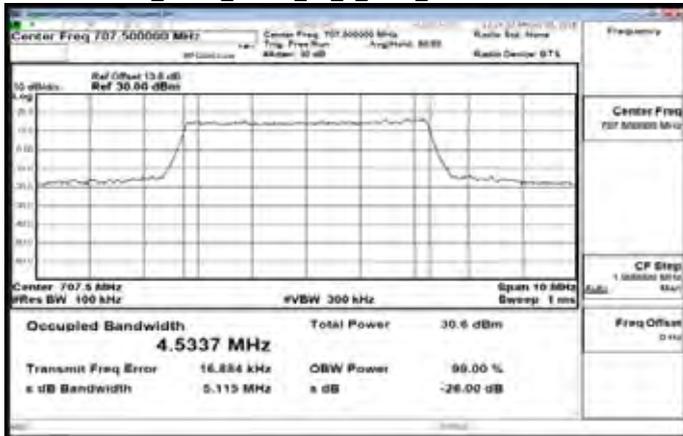
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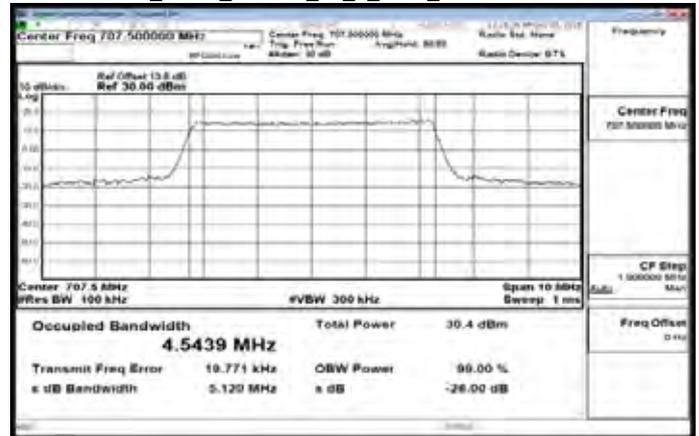
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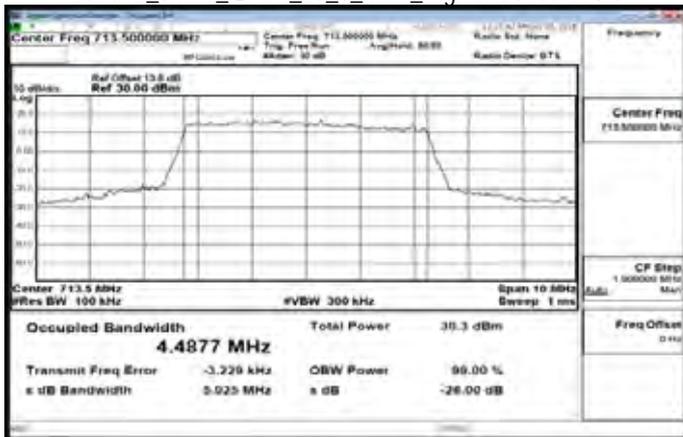
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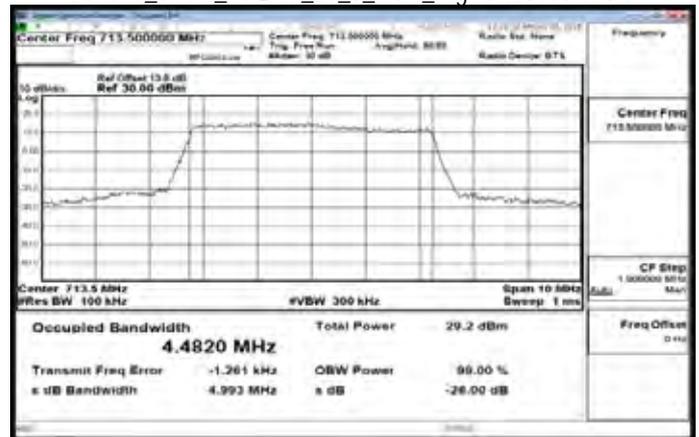
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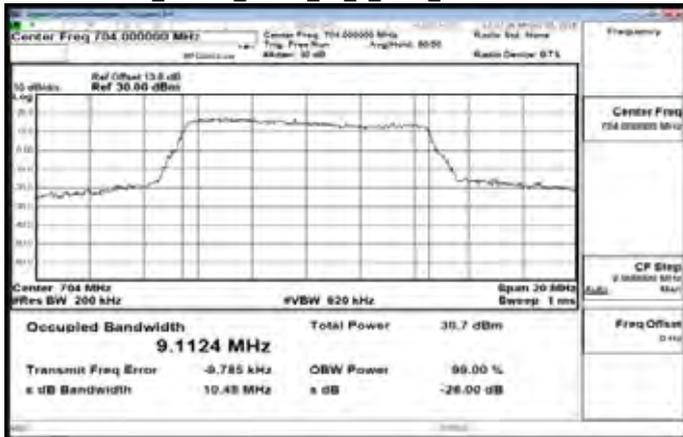
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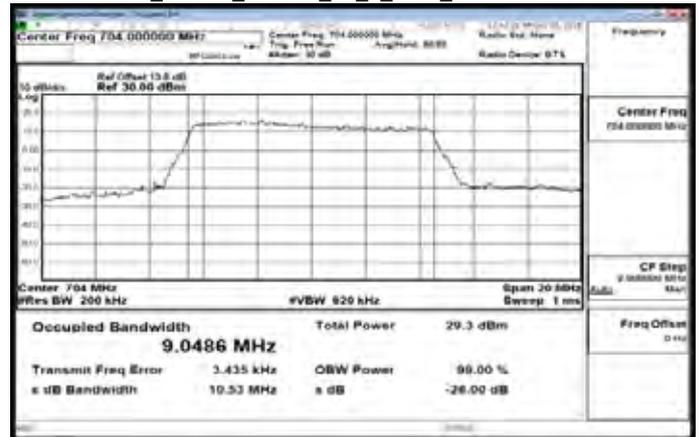
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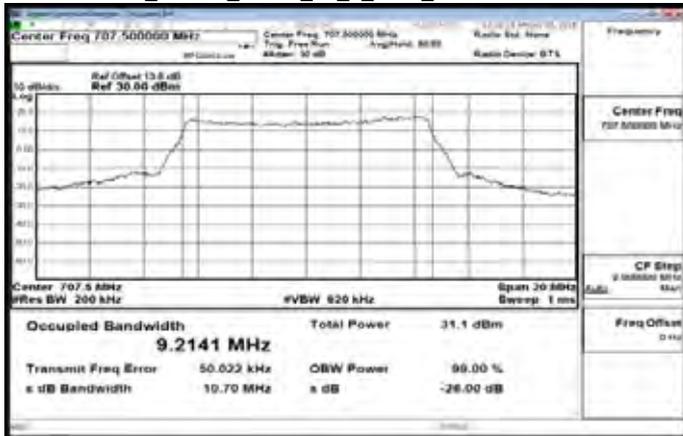
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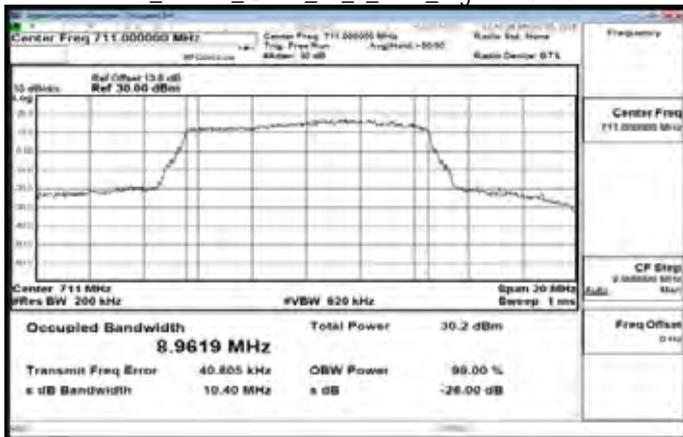
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Band12_10MHz_QPSK_50_0_Main_HighCH23130-711



Band12_10MHz_16QAM_50_0_Main_HighCH23130-711



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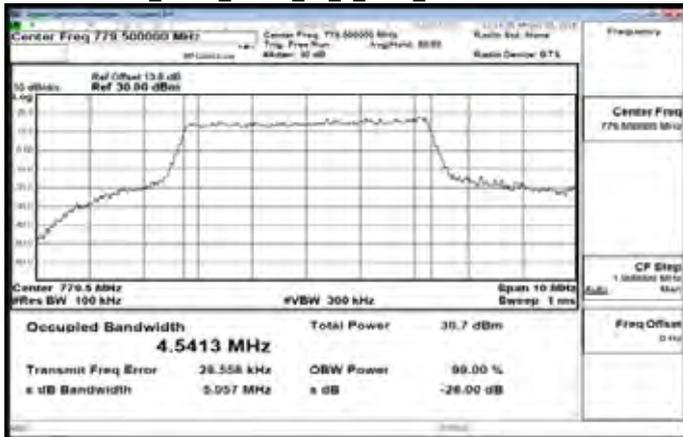
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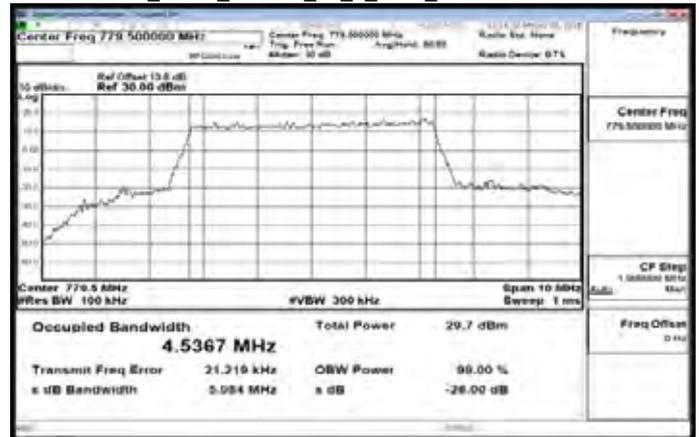
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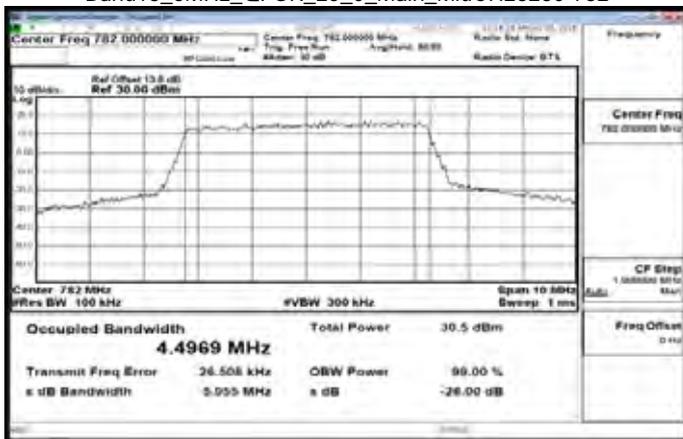
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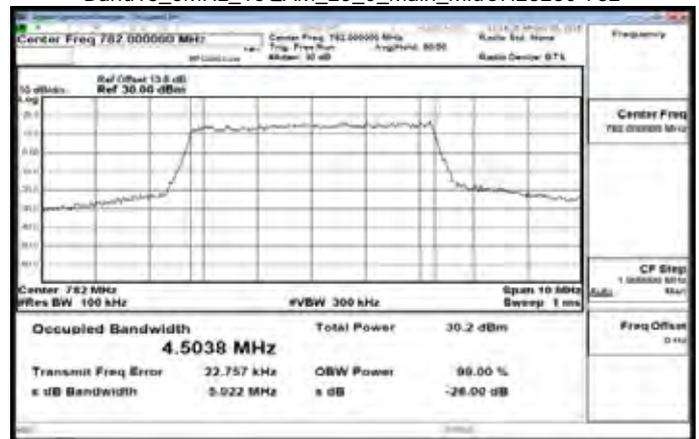
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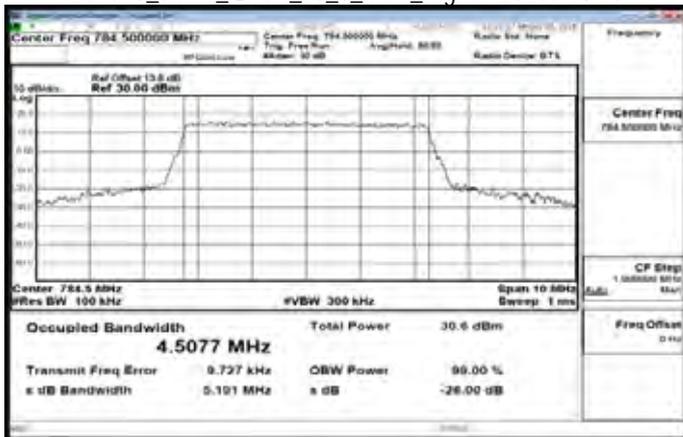
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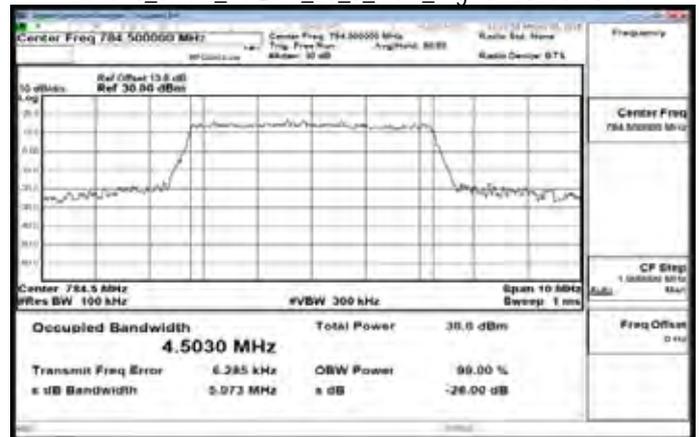
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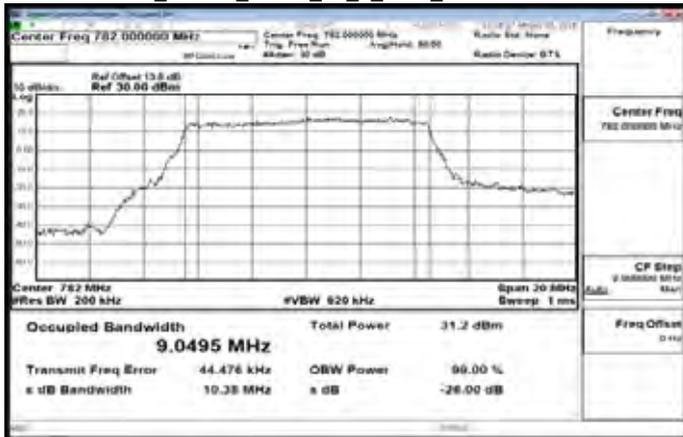
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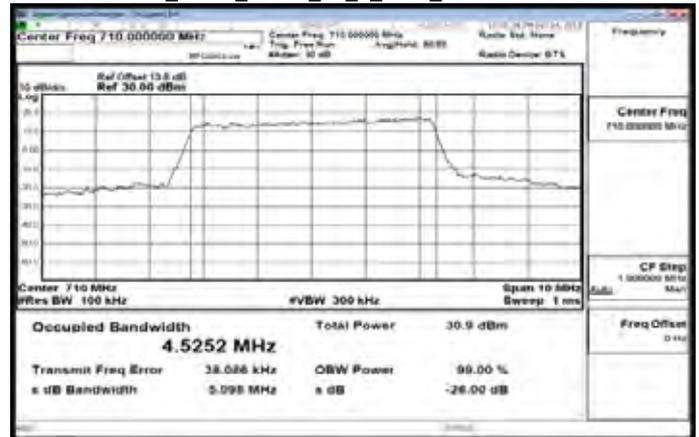
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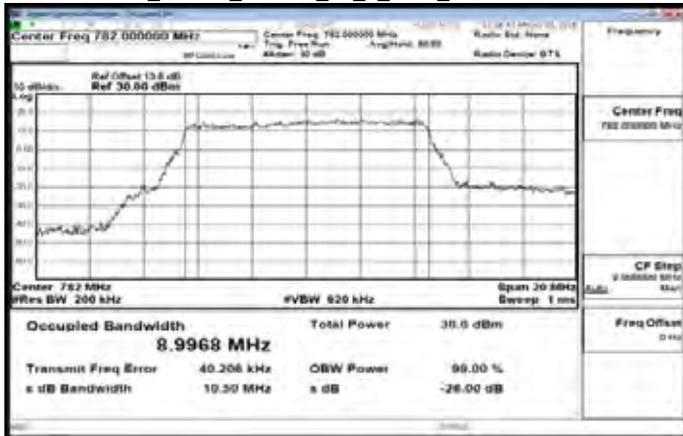
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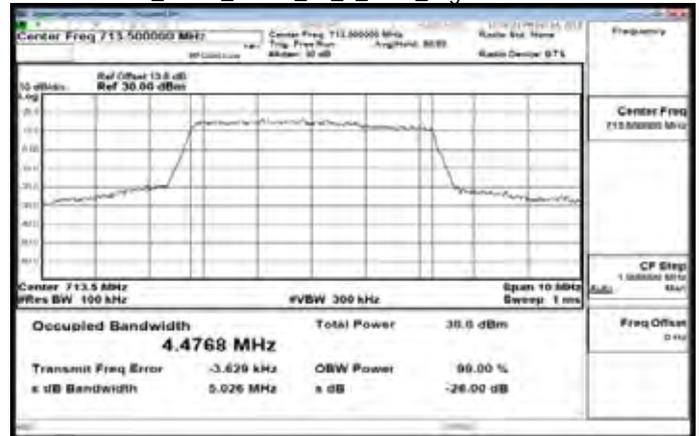
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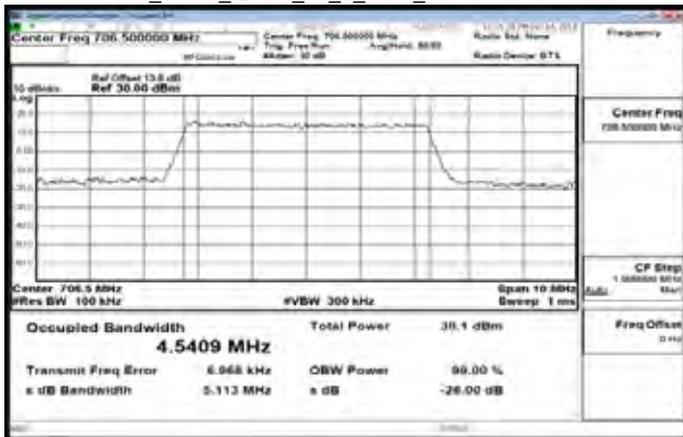
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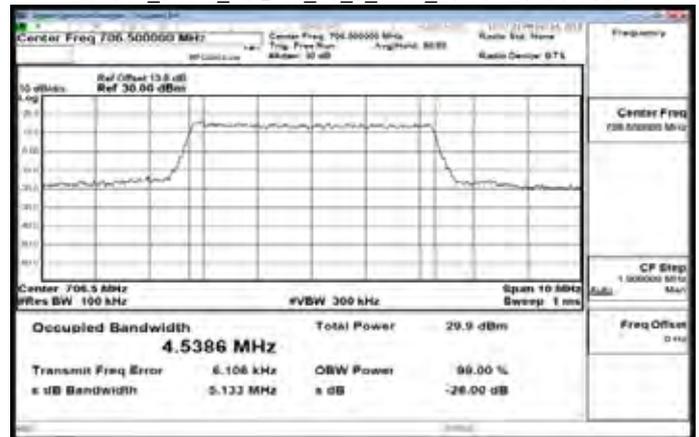
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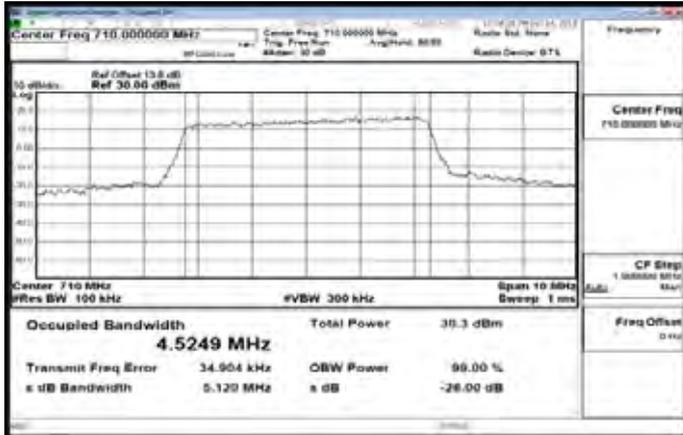
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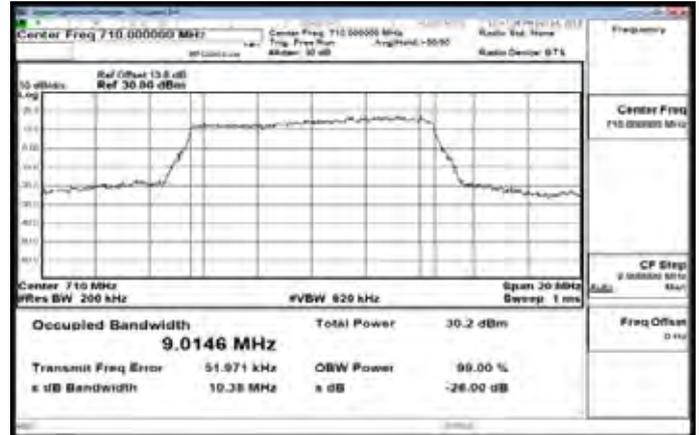
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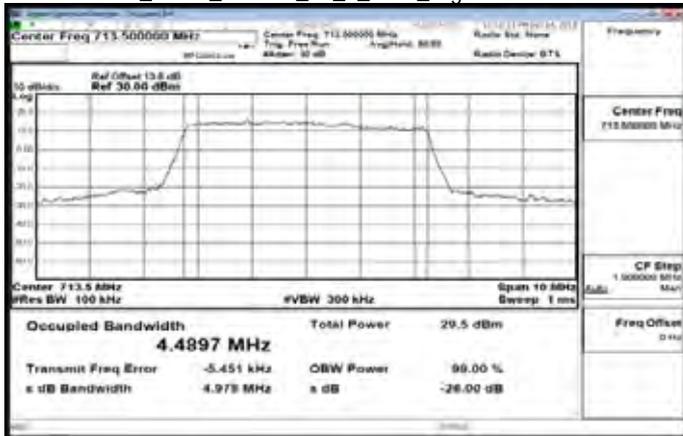
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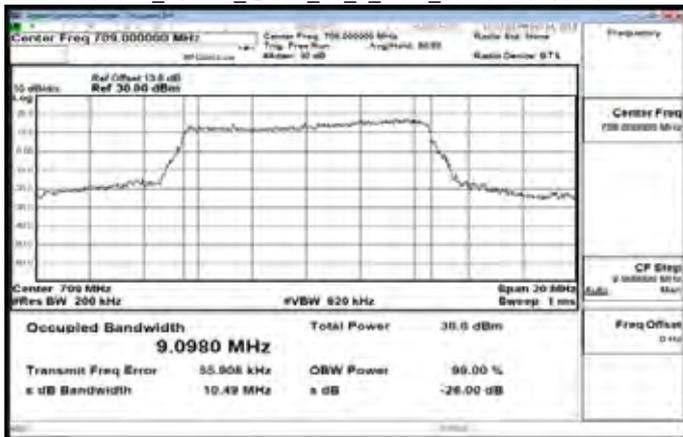
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Band17_10MHz_16QAM_50_0_Main_LowCH23780-709



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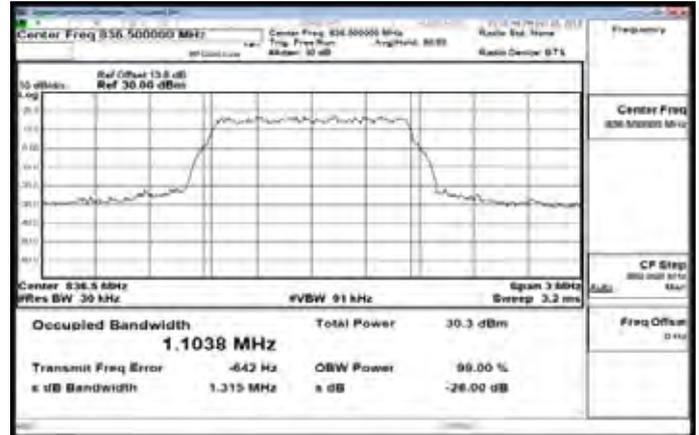
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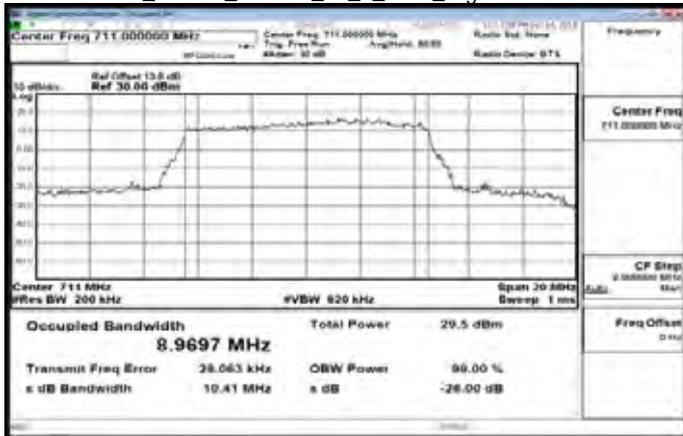
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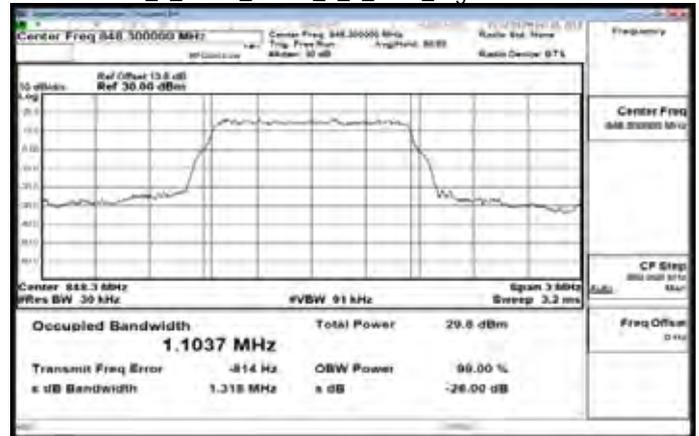
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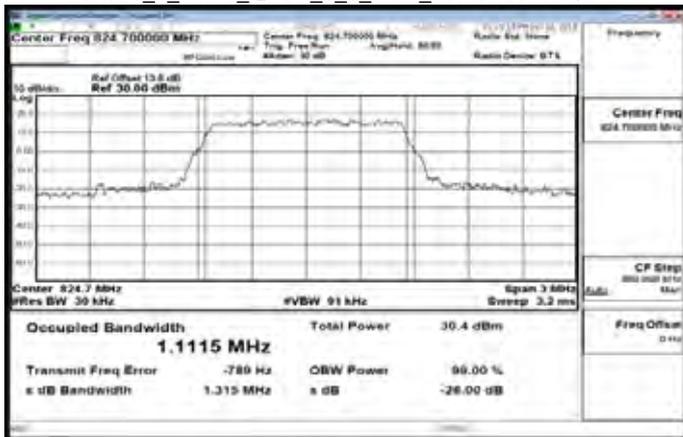
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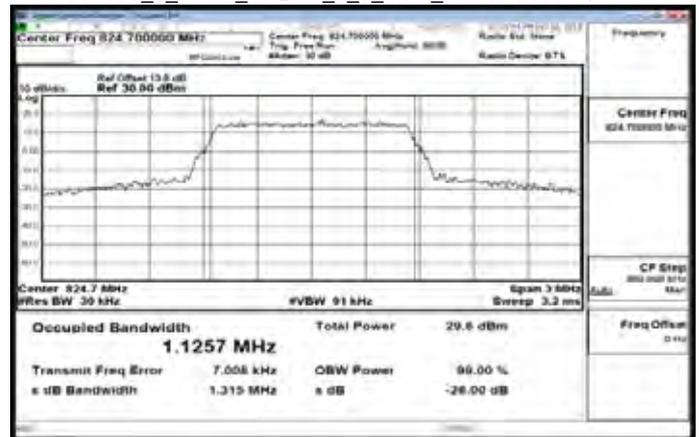
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Band26_1_4MHz_16QAM_6_0_Main_LowCH26797-824.7



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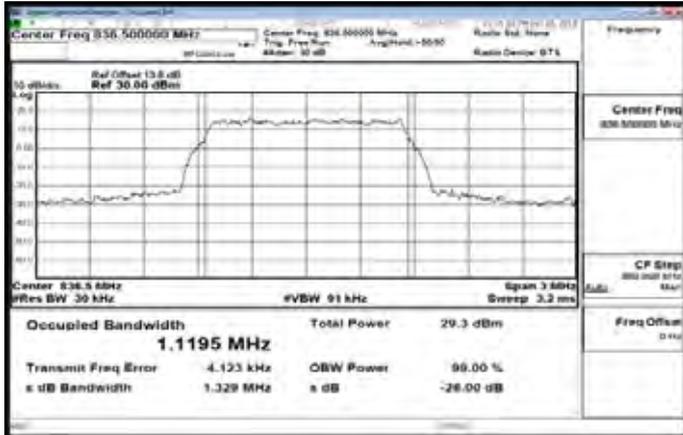
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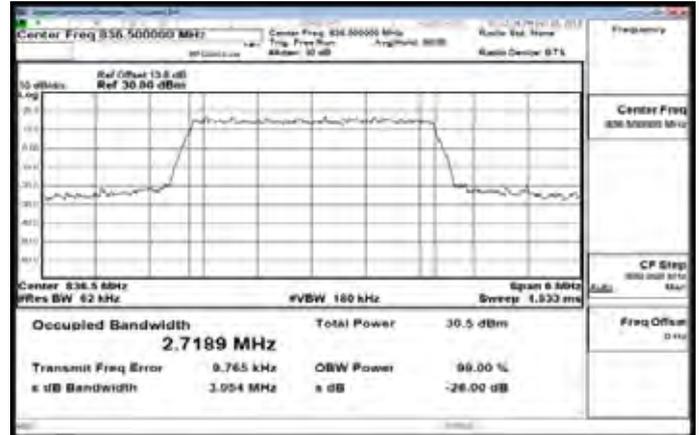
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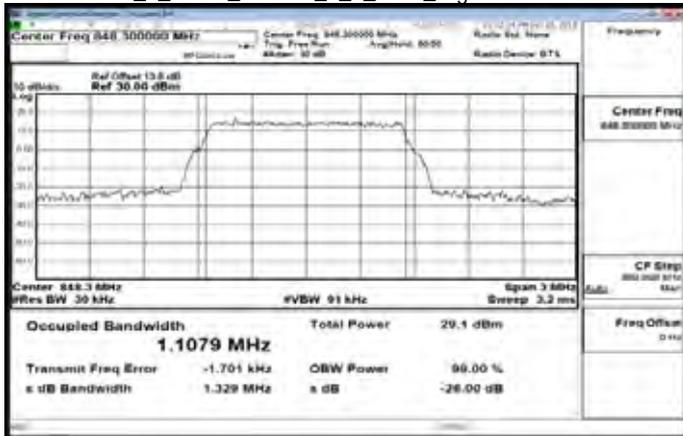
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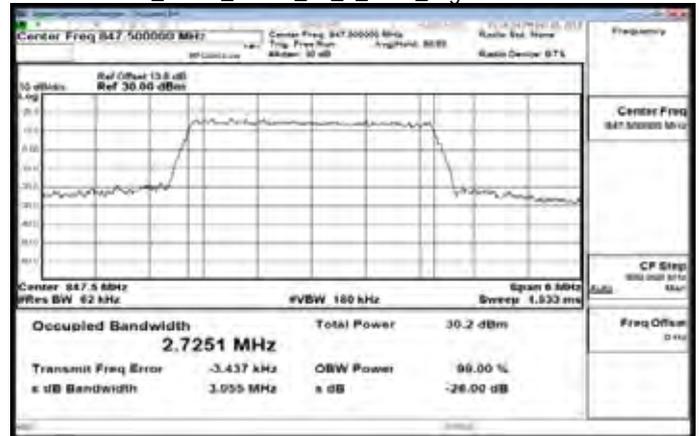
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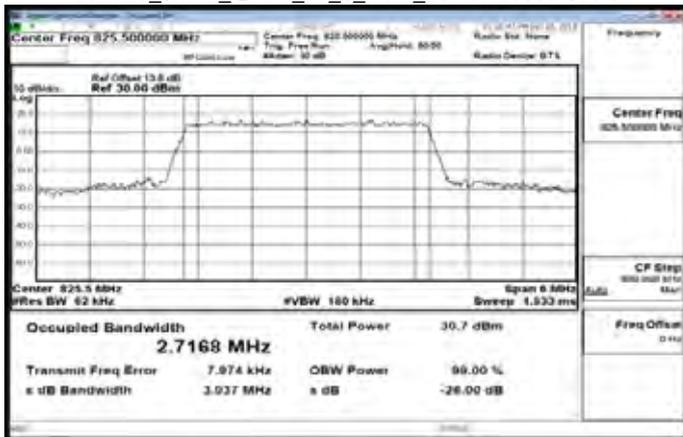
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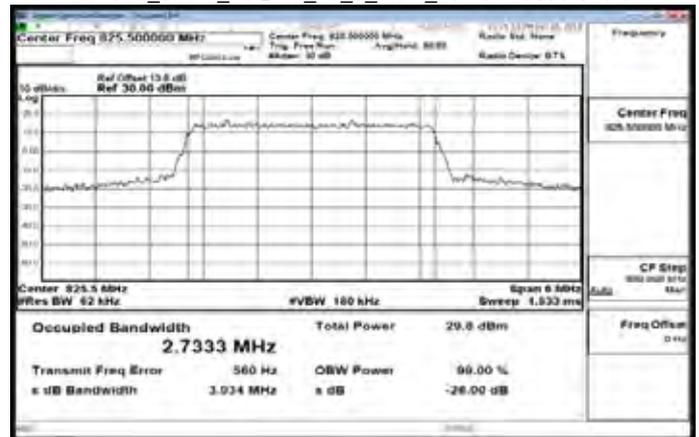
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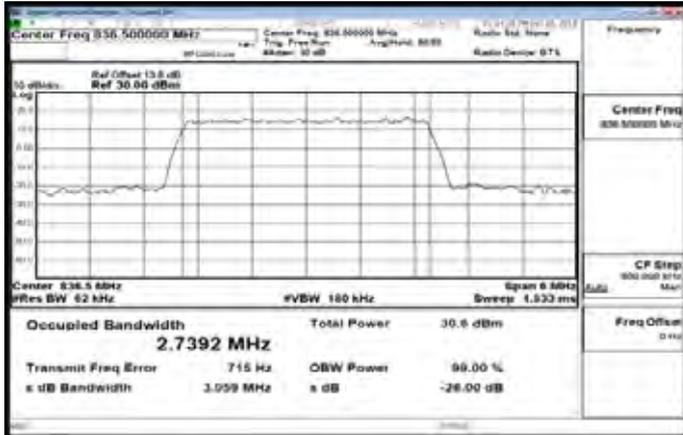
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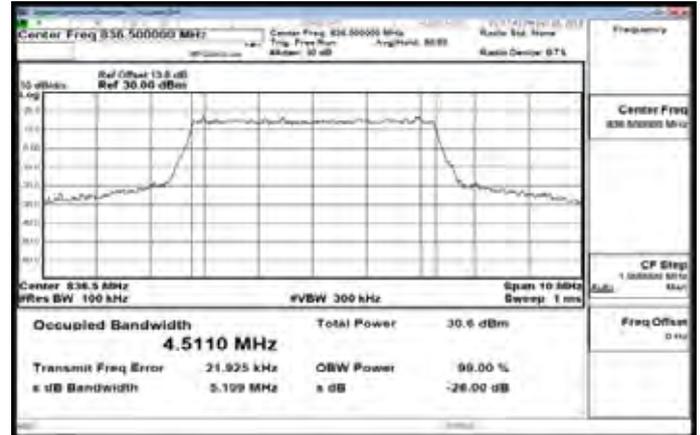
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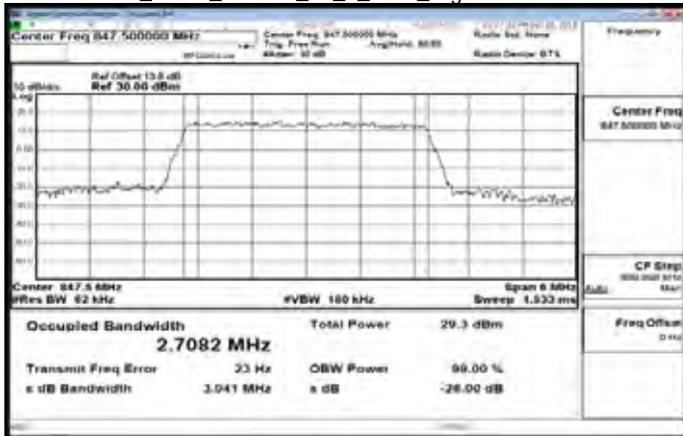
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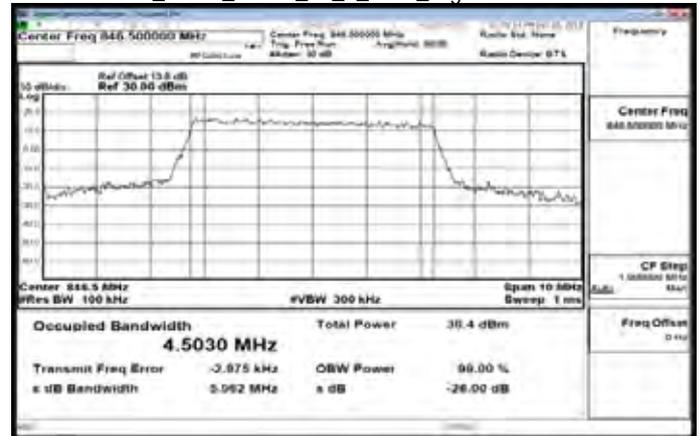
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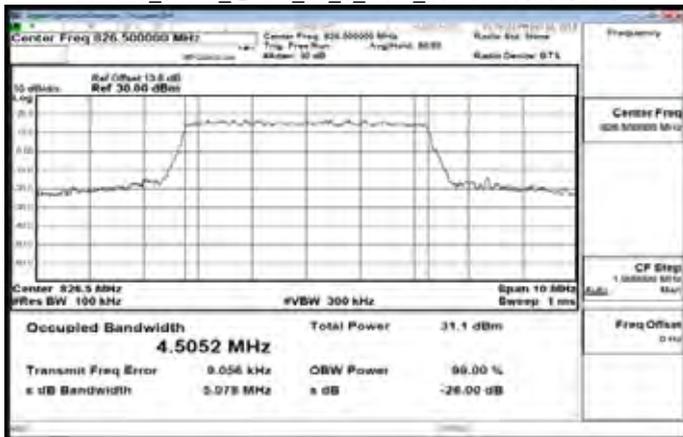
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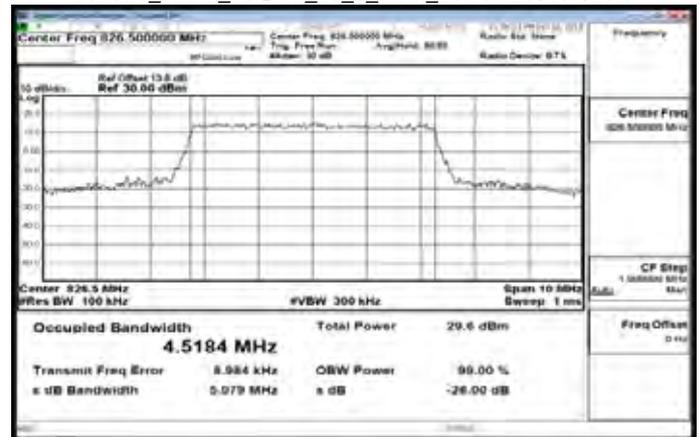
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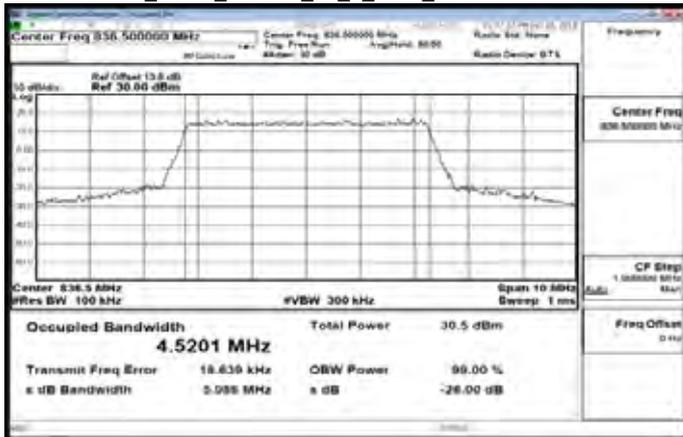
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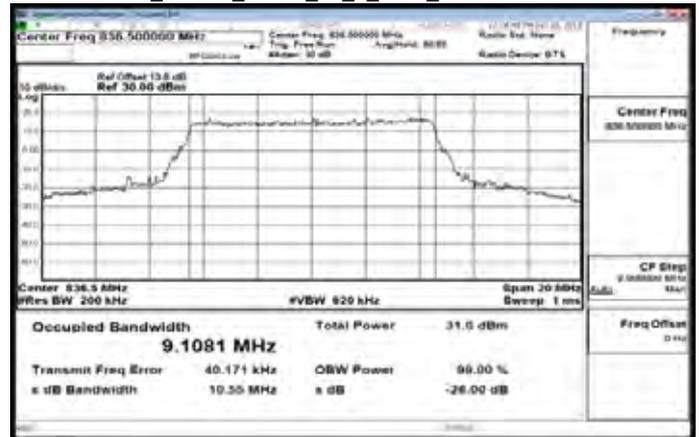
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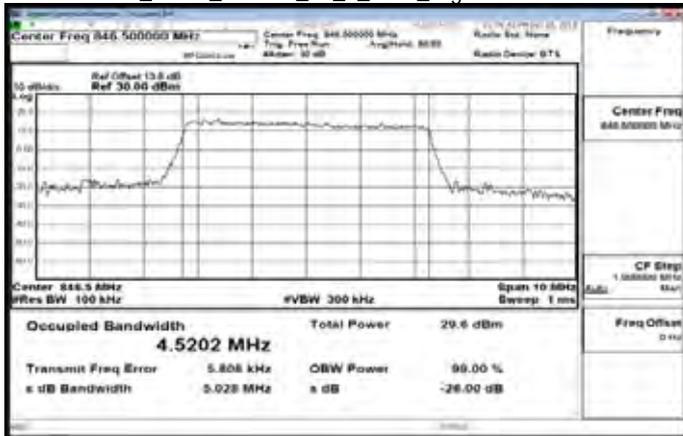
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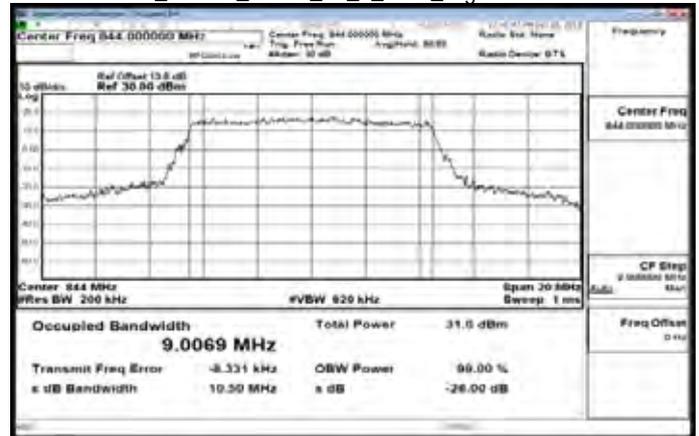
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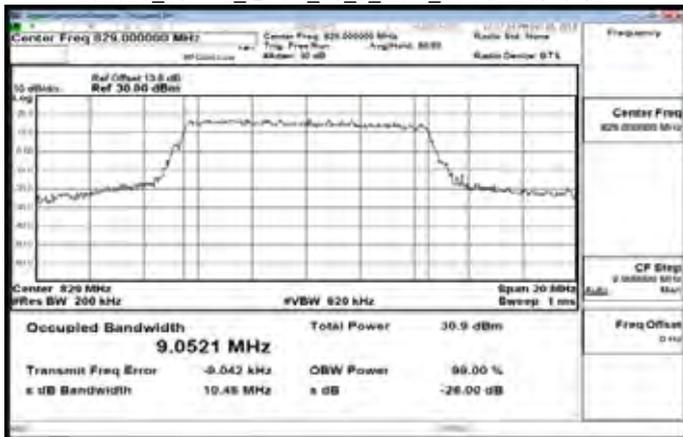
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Band26_10MHz_QPSK_50_0_Main_HighCH26990-844



Band26_10MHz_QPSK_50_0_Main_LowCH26840-829



Band26_10MHz_16QAM_50_0_Main_LowCH26840-829



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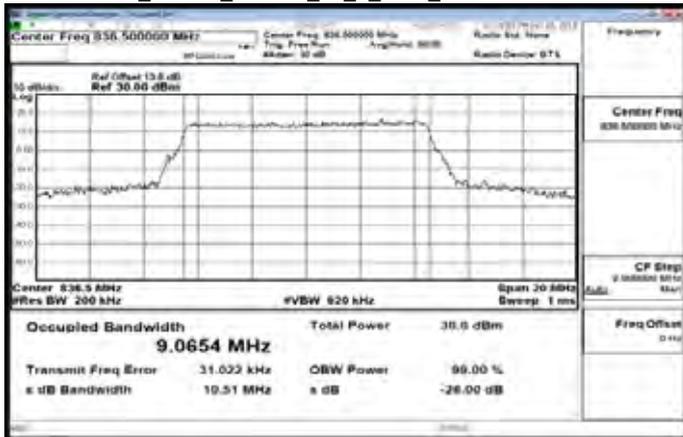
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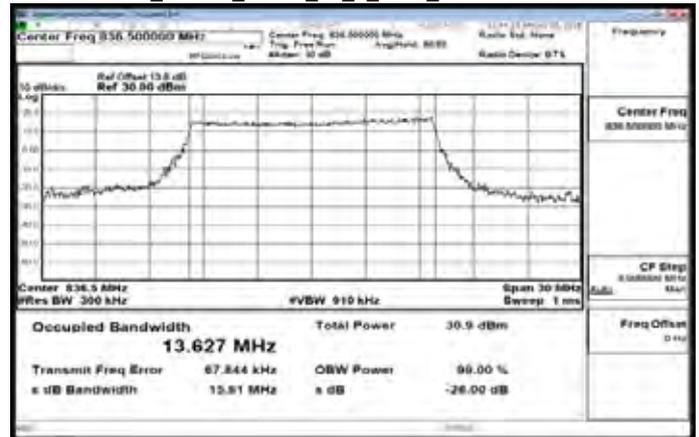
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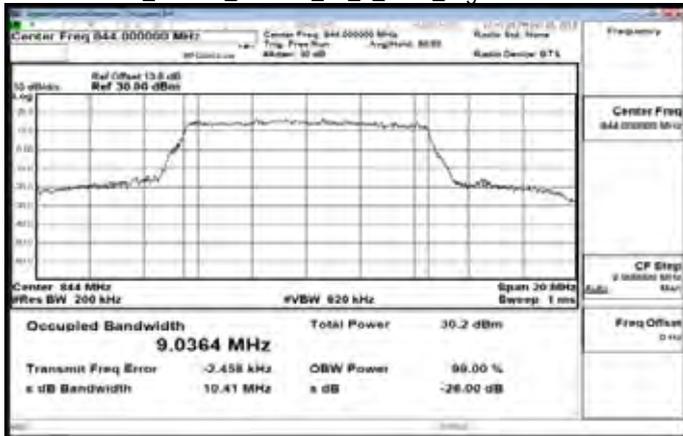
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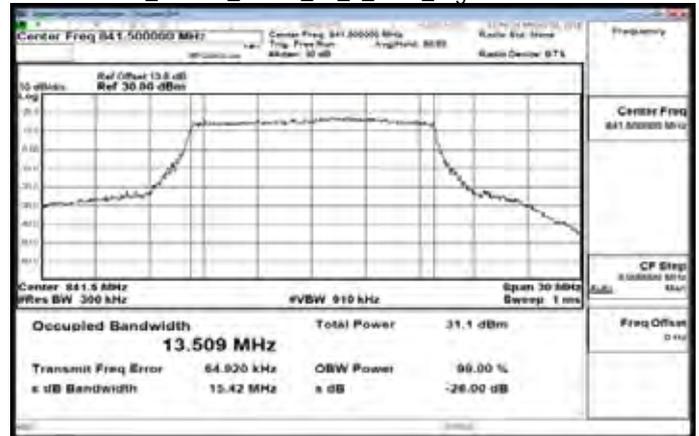
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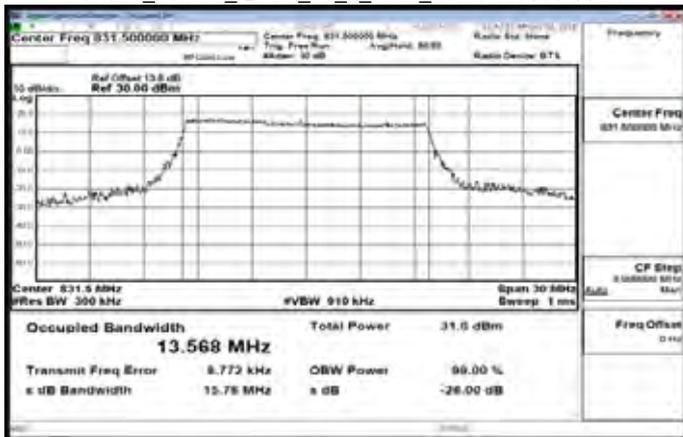
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Band26_15MHz_16QAM_75_0_Main_LowCH26865-831.5



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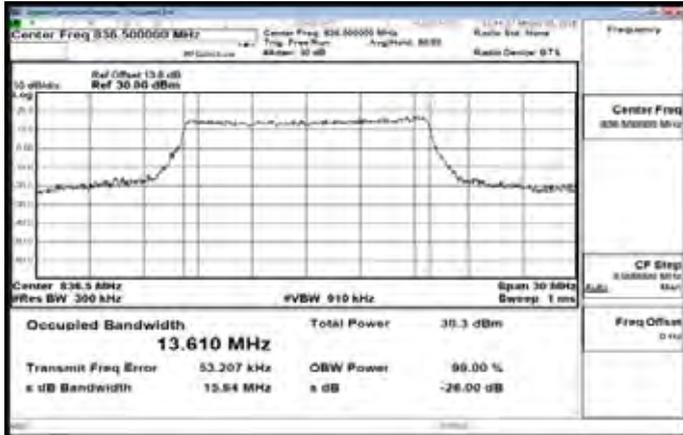
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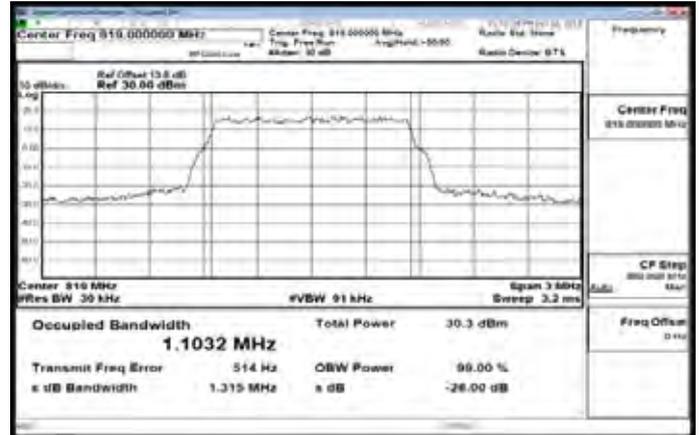
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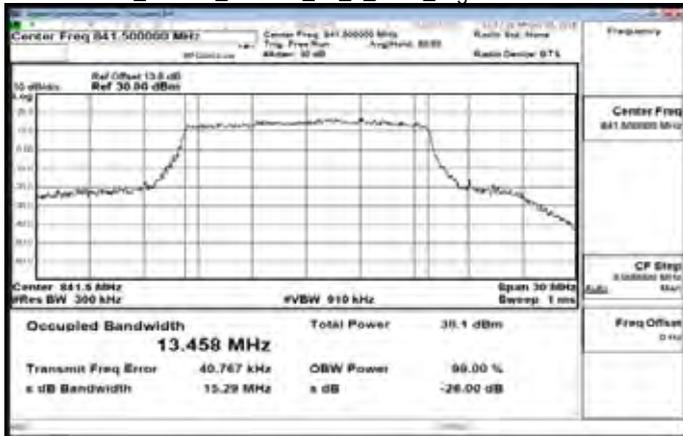
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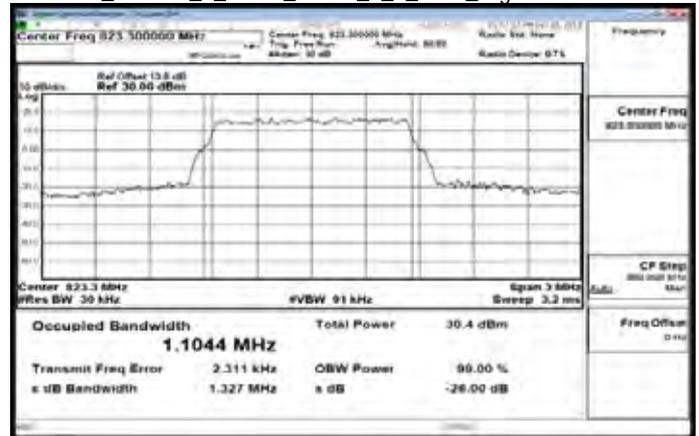
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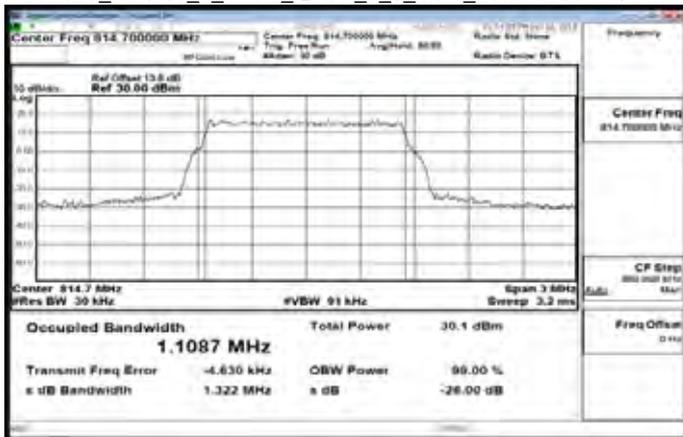
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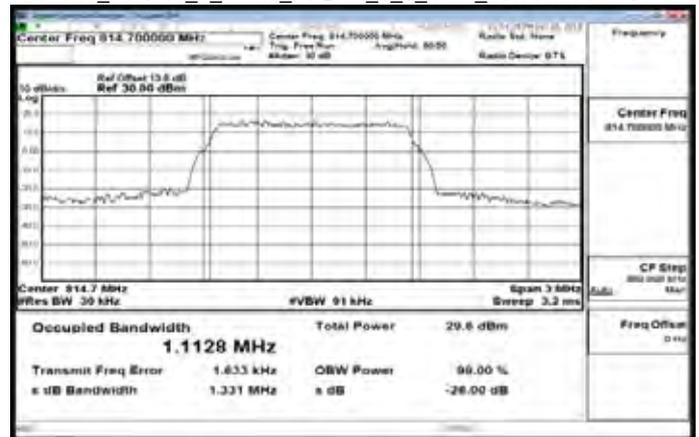
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Band26_Part90s_1_4MHz_16QAM_6_0_Main_LowCH26697-814.7



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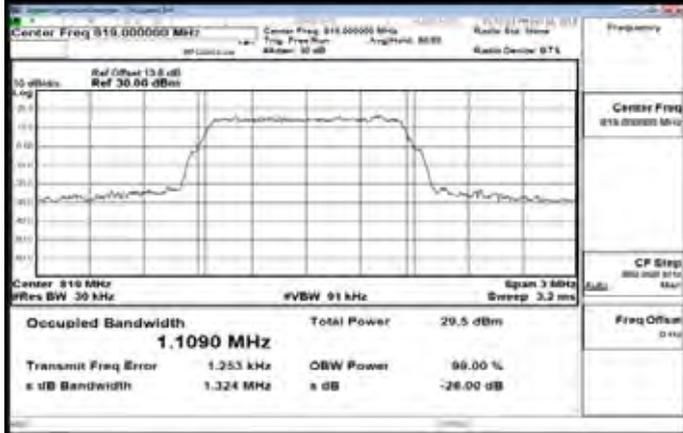
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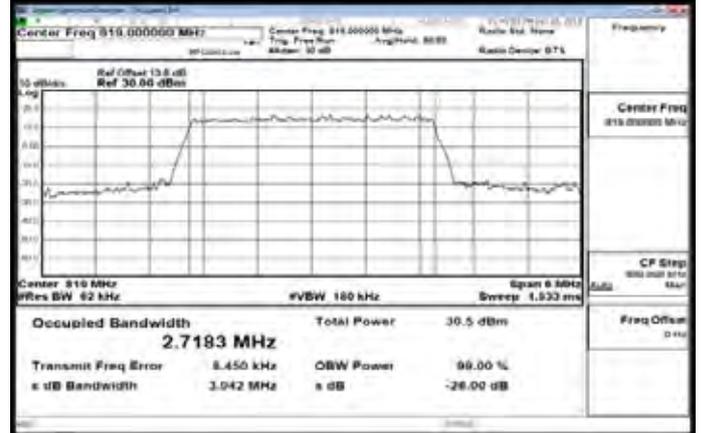
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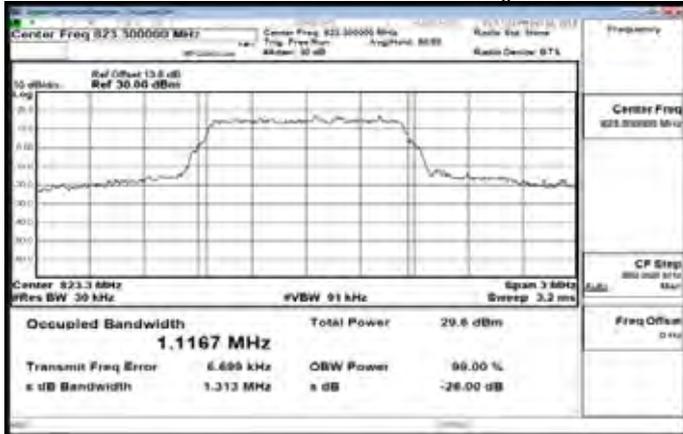
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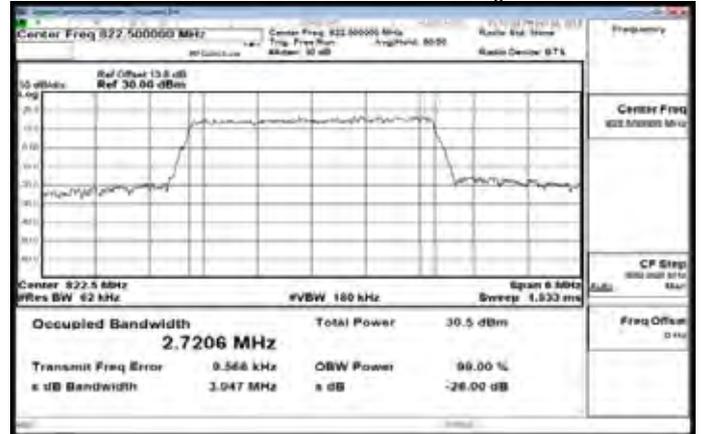
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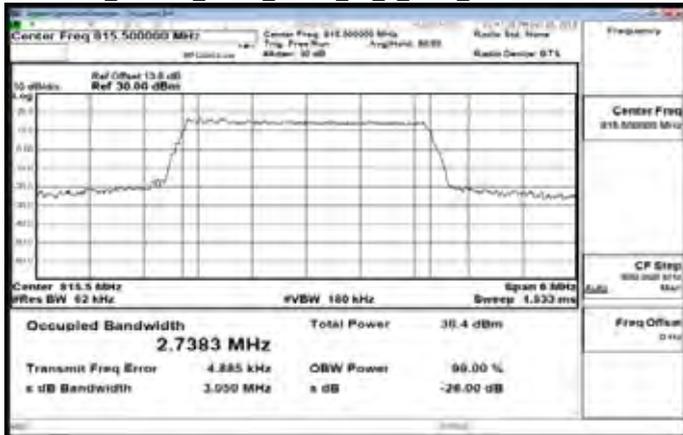
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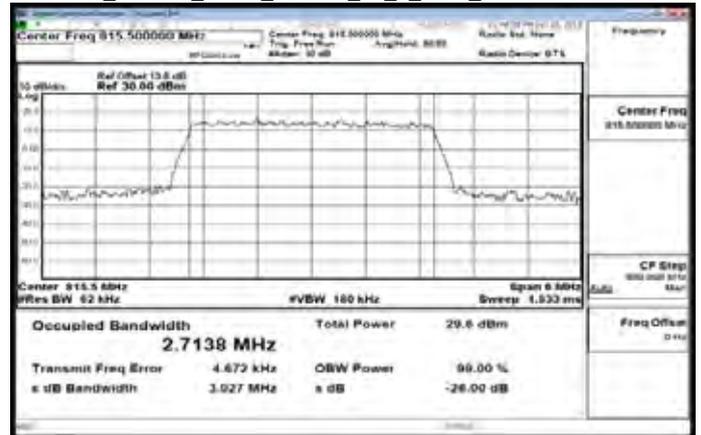
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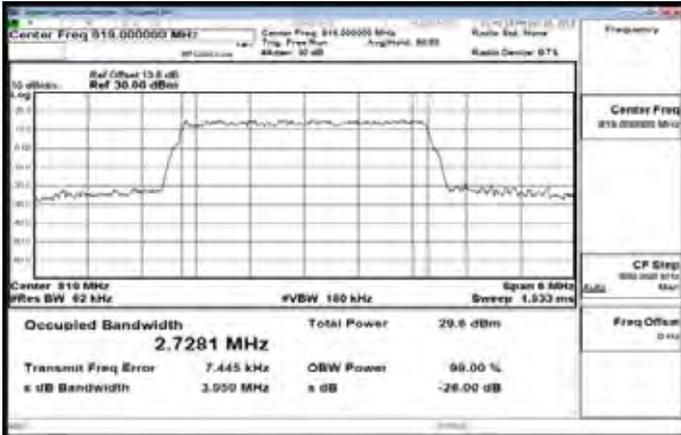
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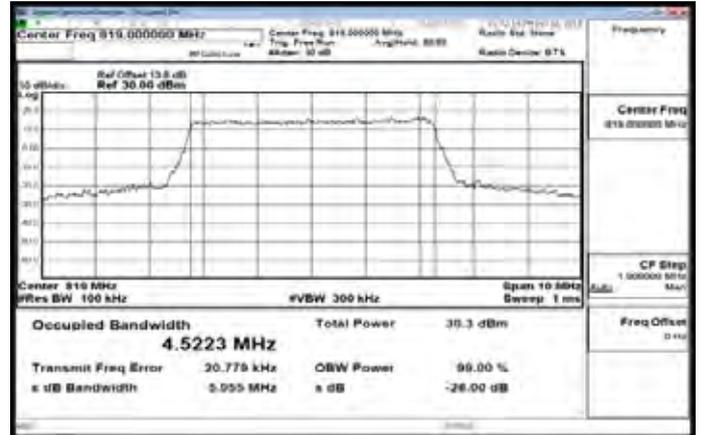
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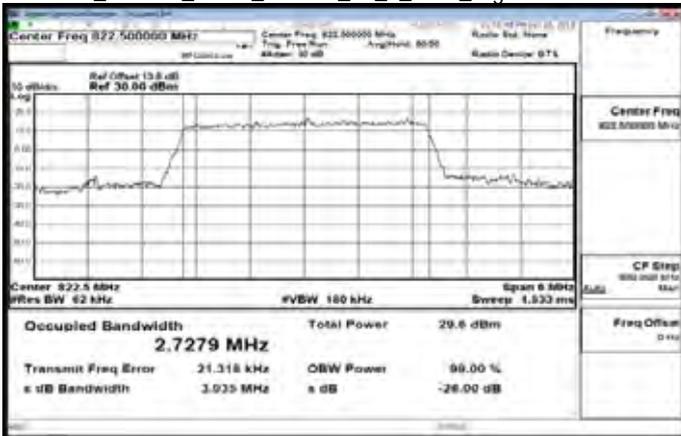
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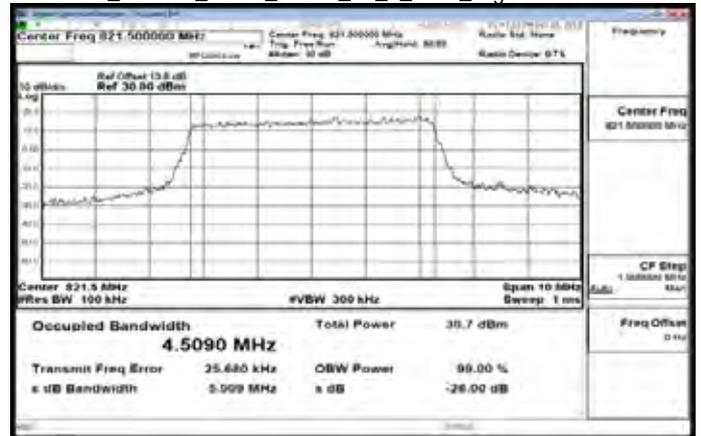
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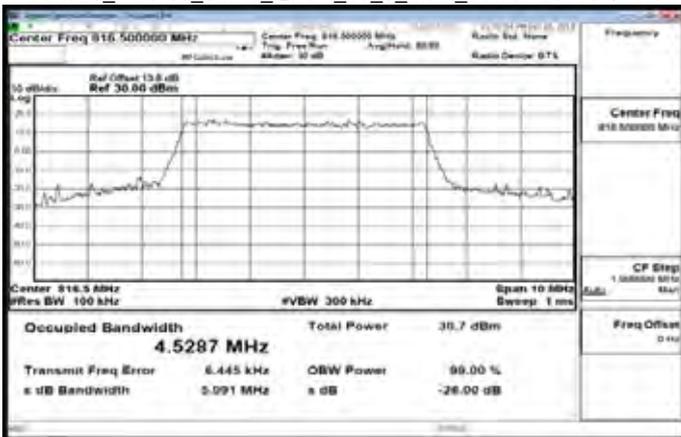
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Band26_Part90s_5MHz_QPSK_25_0_Main_LowCH26715-816.5



Band26_Part90s_5MHz_16QAM_25_0_Main_LowCH26715-816.5



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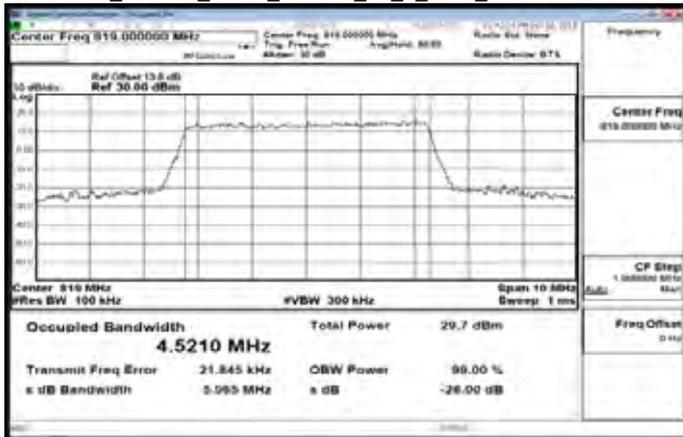
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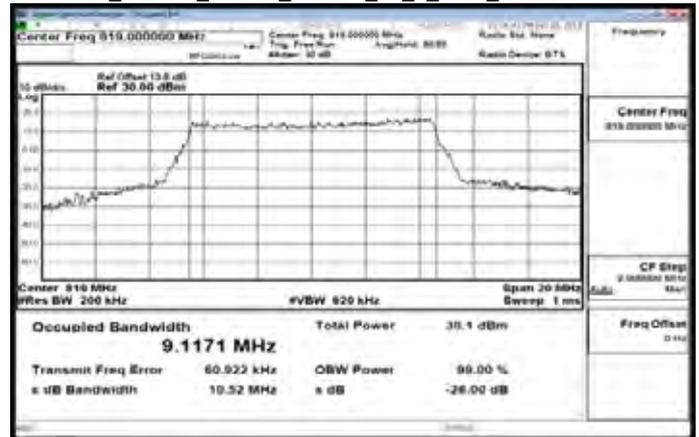
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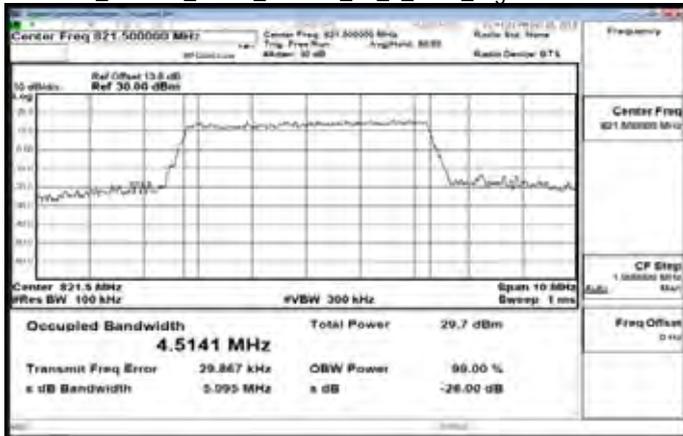
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Band26_Part90s_10MHz_QPSK_50_0_Main_MidCH26740-819



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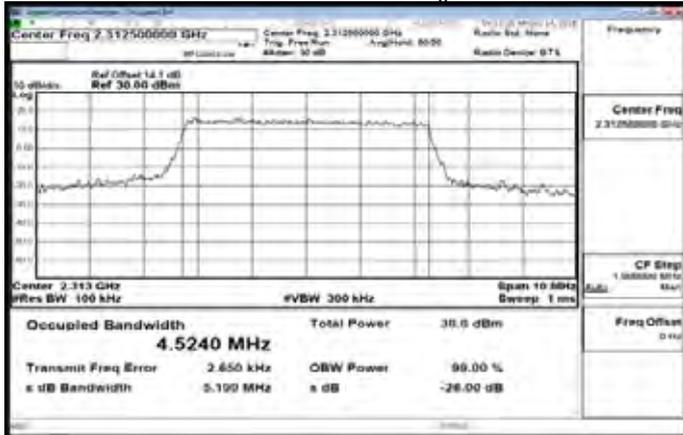
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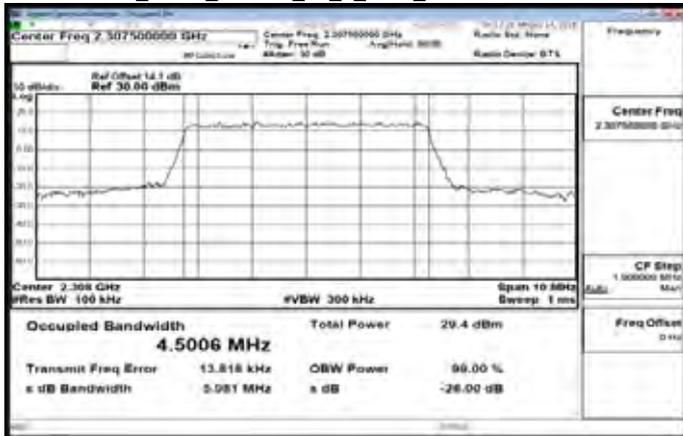
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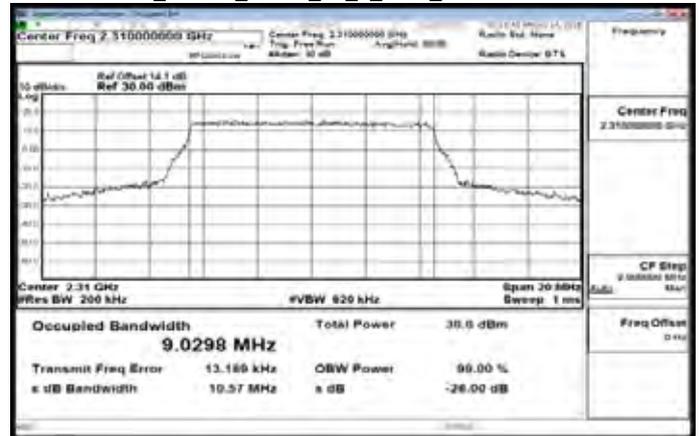
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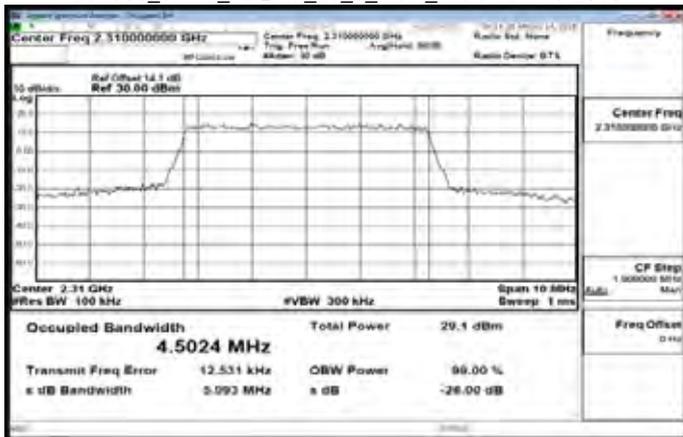
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Band30_10MHz_16QAM_50_0_Main_MidCH27710-2310



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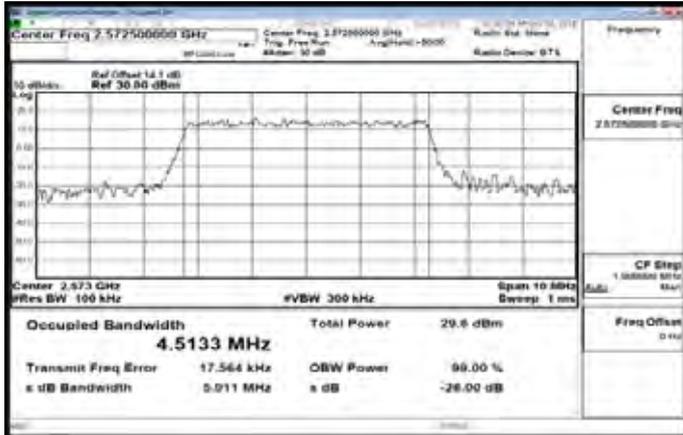
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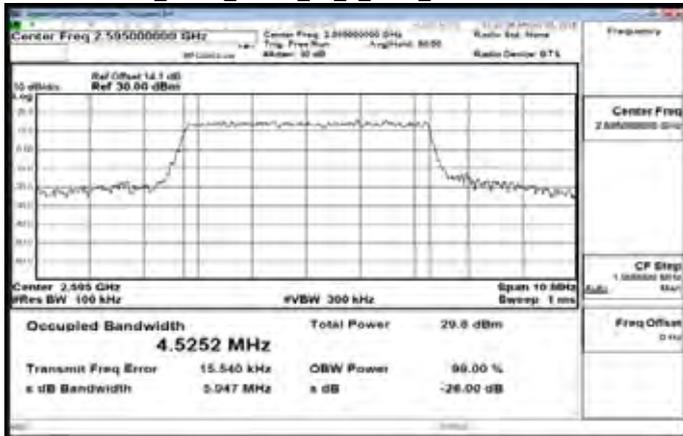
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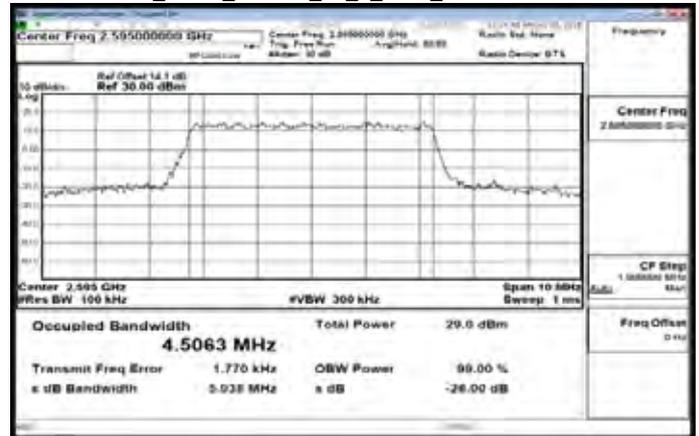
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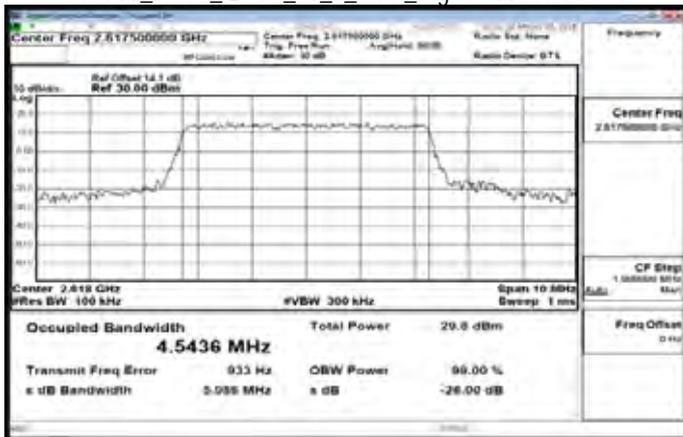
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Band38_5MHz_16QAM_25_0_Main_HighCH38225-2617.5



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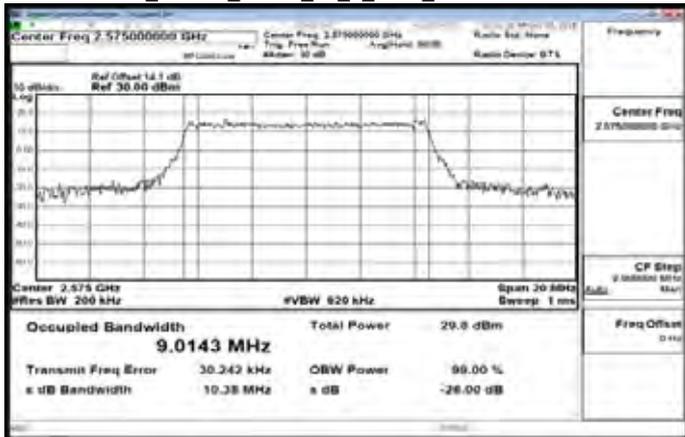
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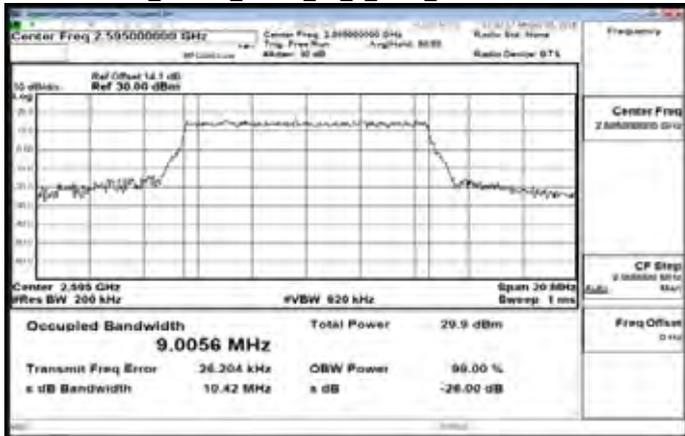
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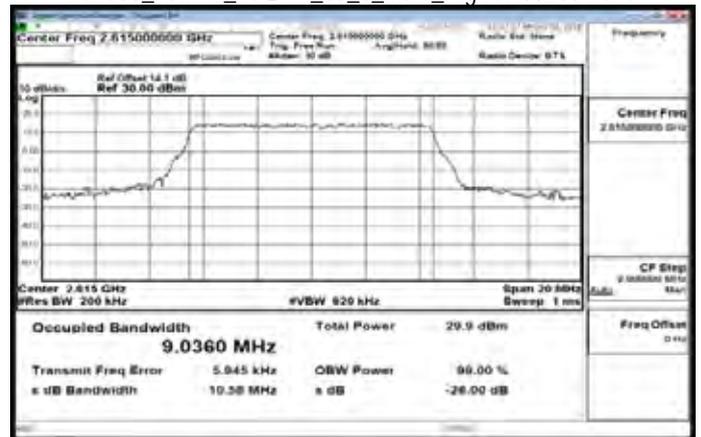
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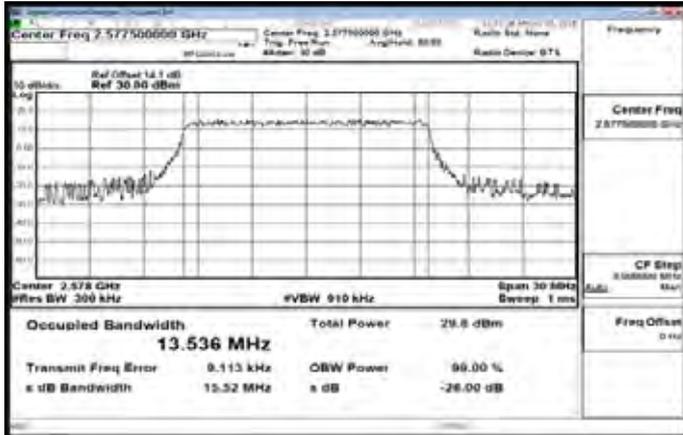
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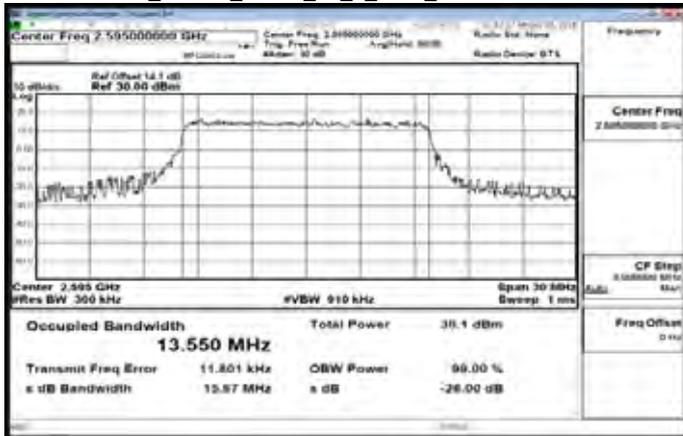
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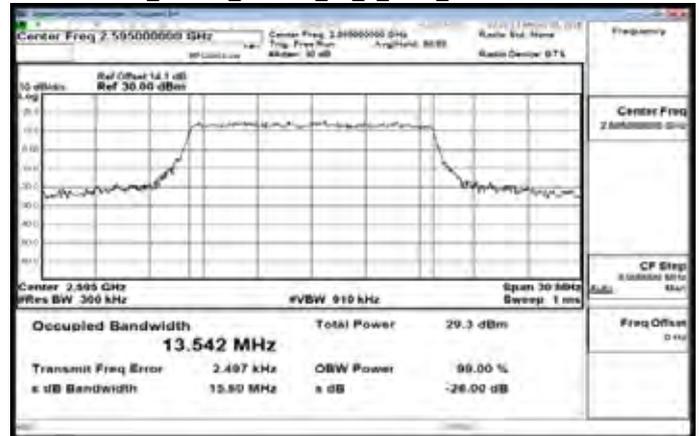
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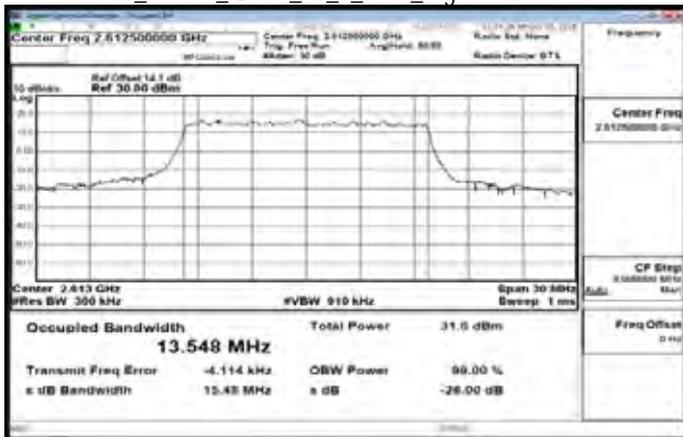
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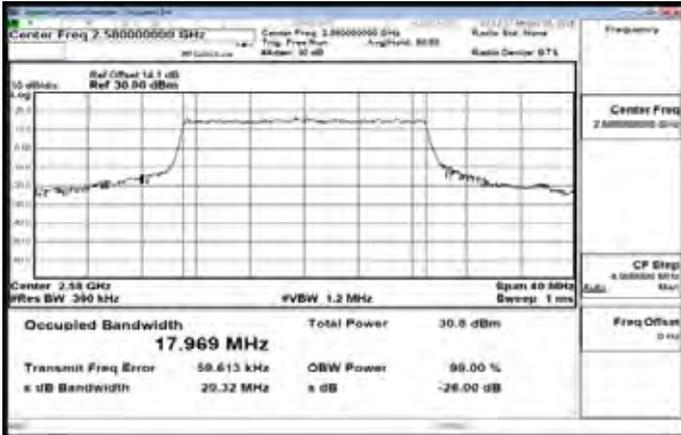
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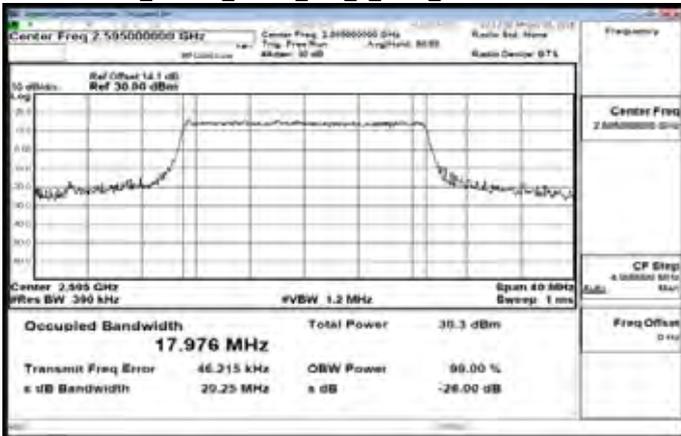
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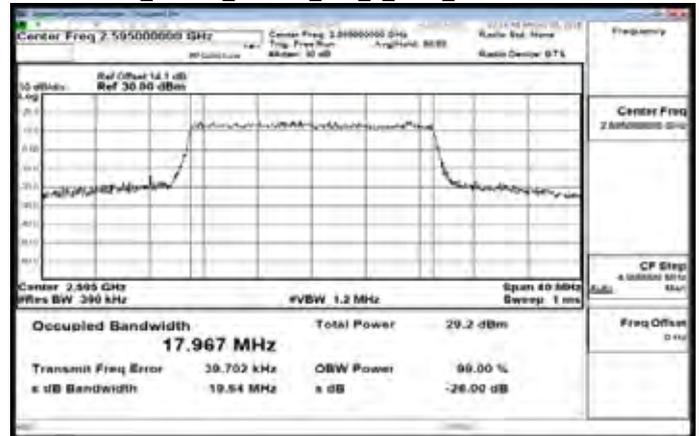
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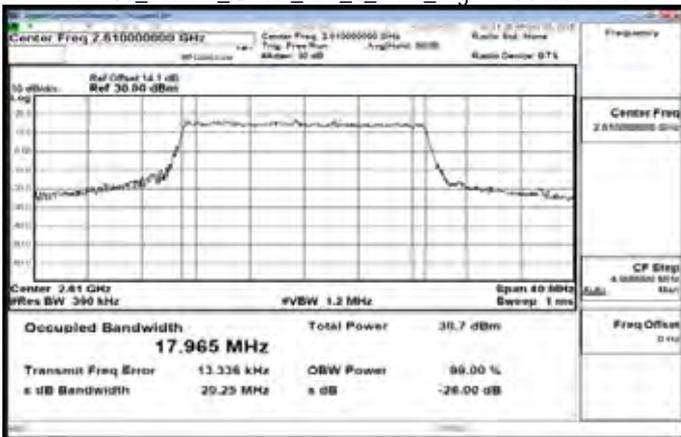
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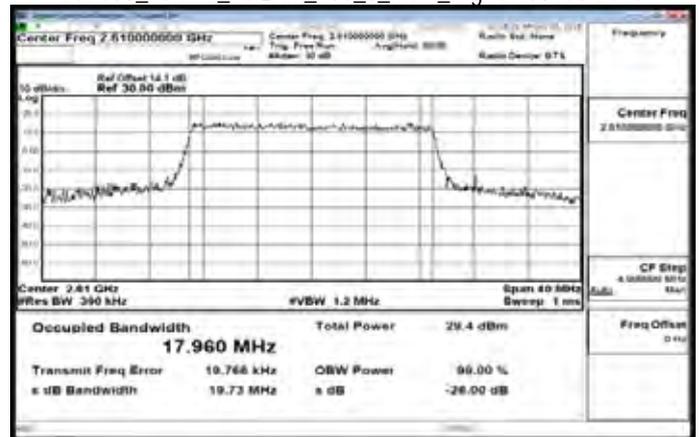
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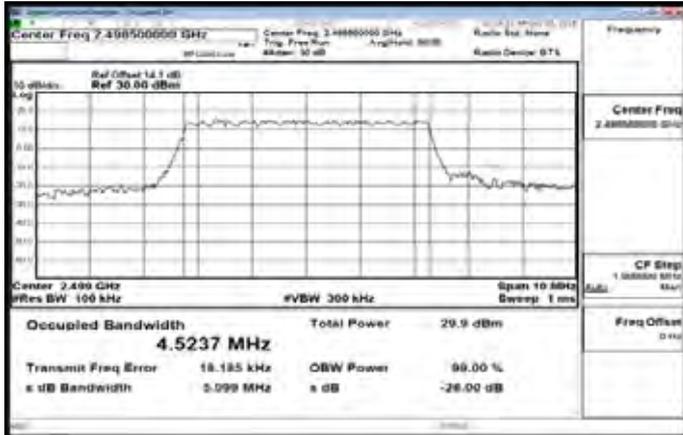
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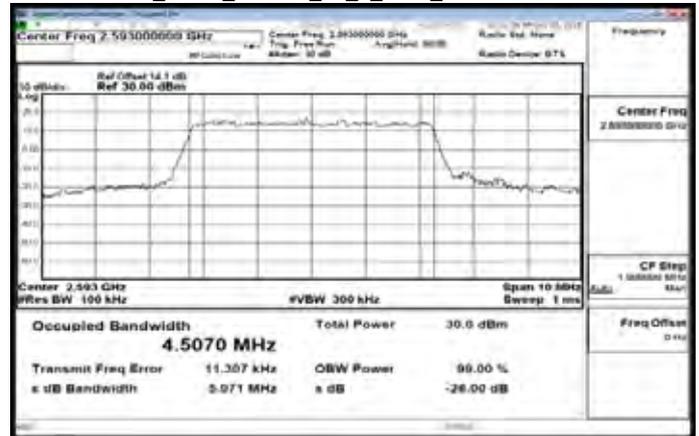
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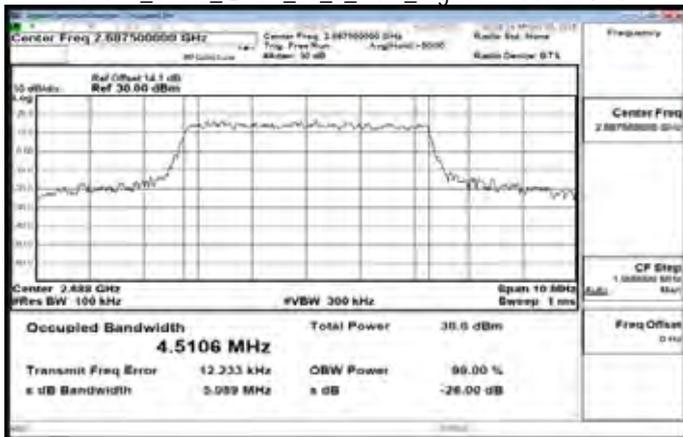
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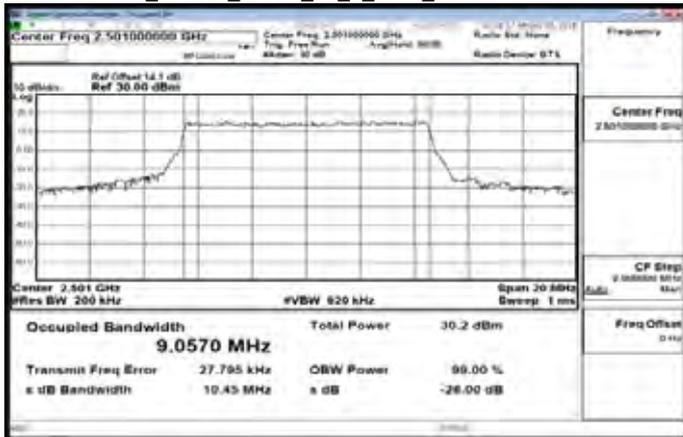
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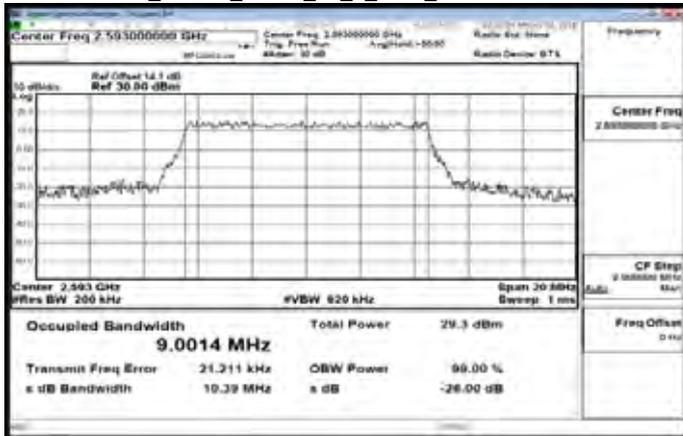
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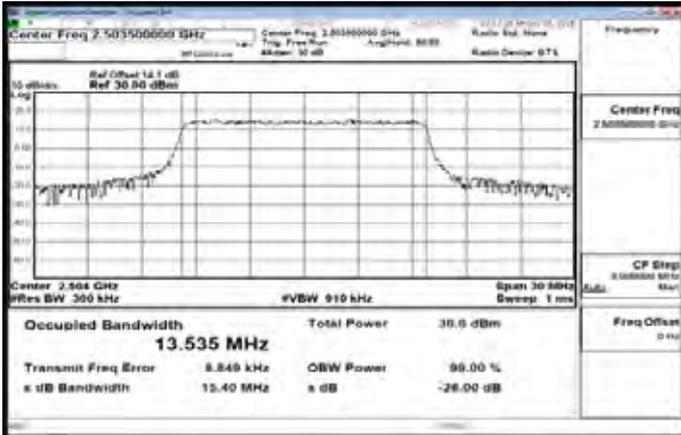
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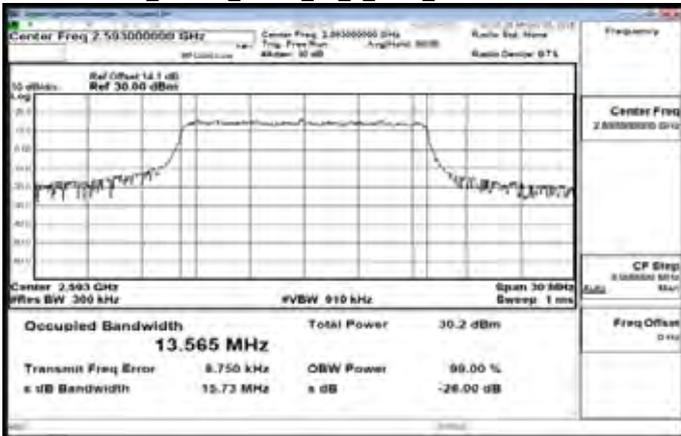
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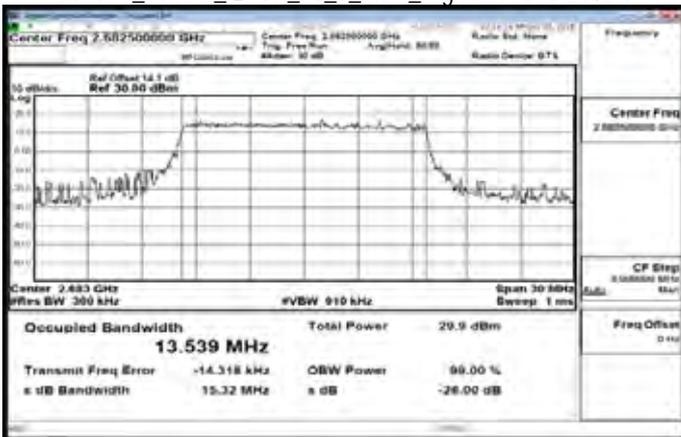
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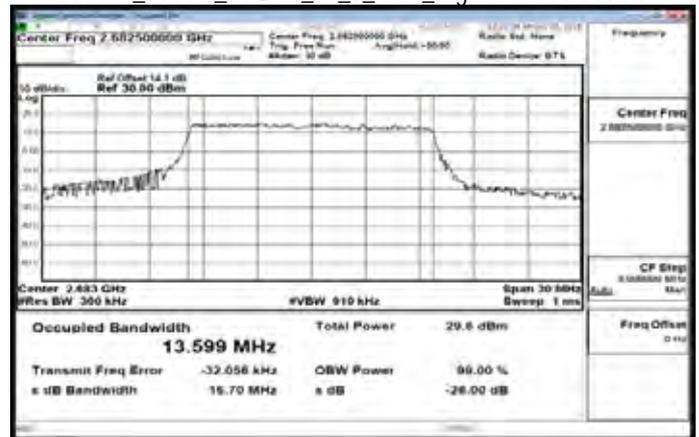
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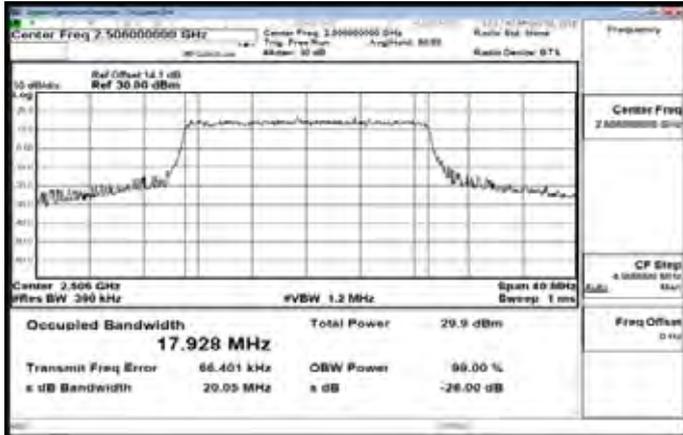
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Band41_20MHz_QPSK_100_0_Main_LowCH39750-2506



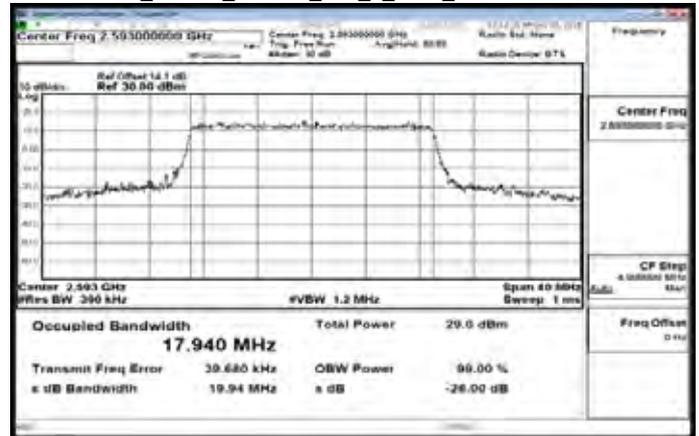
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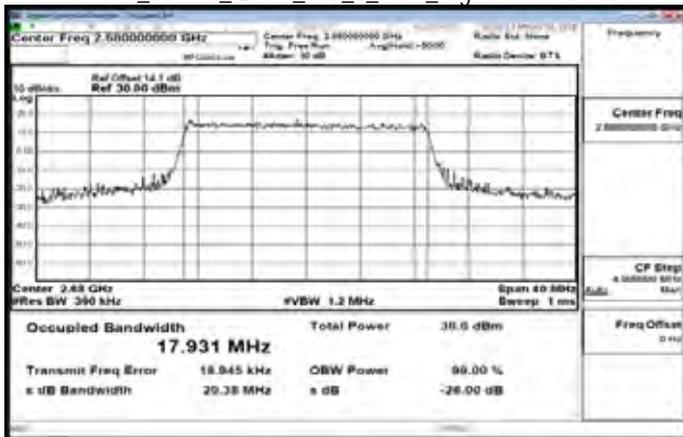
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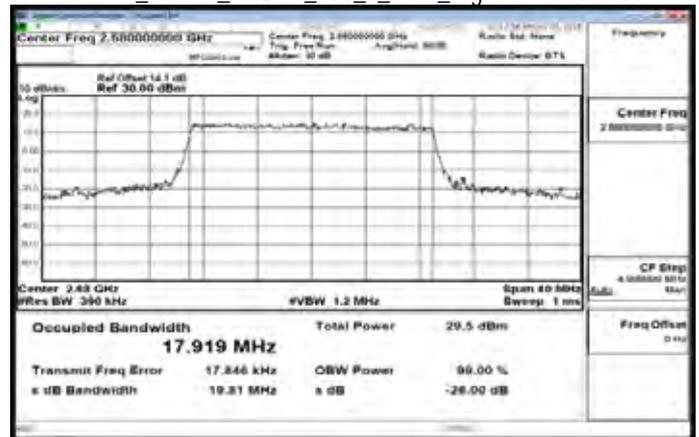
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Band41_20MHz_16QAM_100_0_Main_HighCH41490-2680



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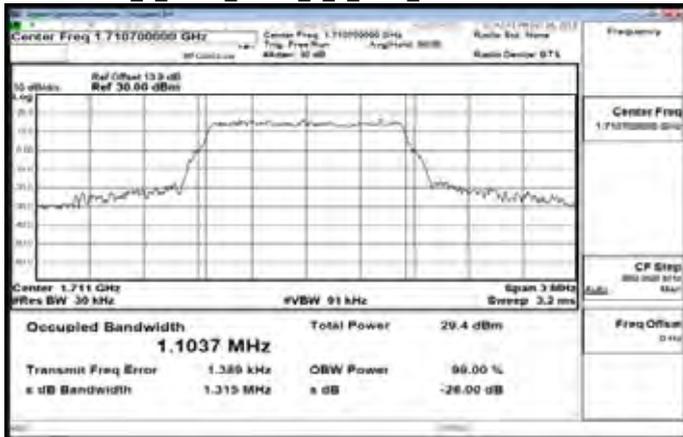
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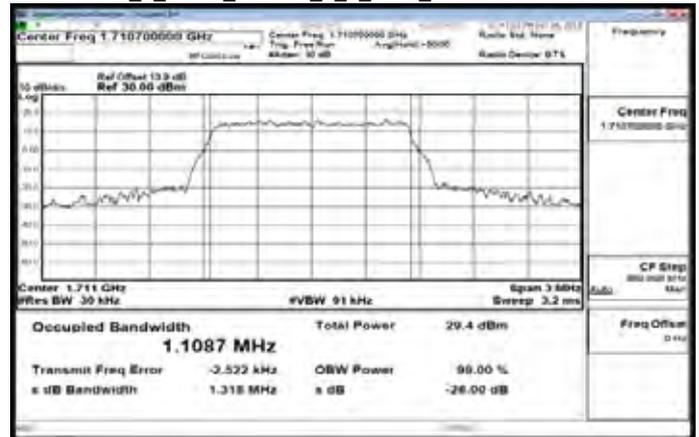
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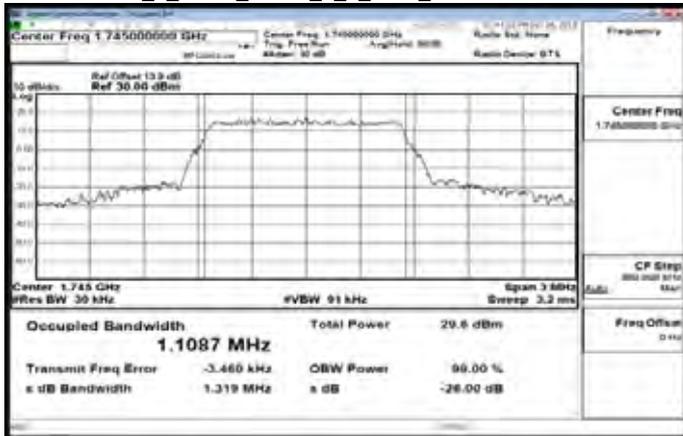
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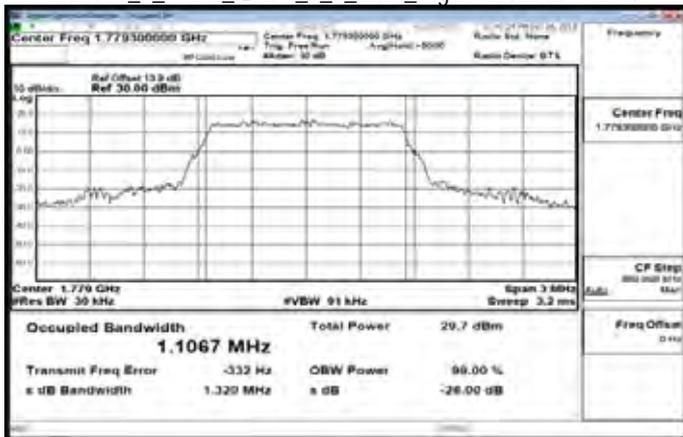
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Band66_1_4MHz_16QAM_6_0_Main_HighCH132665-1779.3



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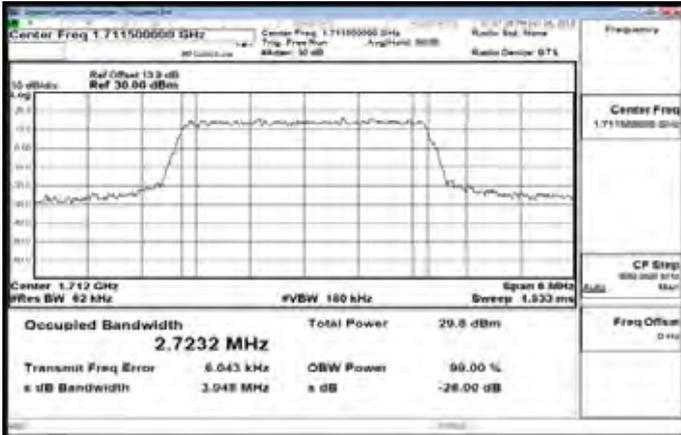
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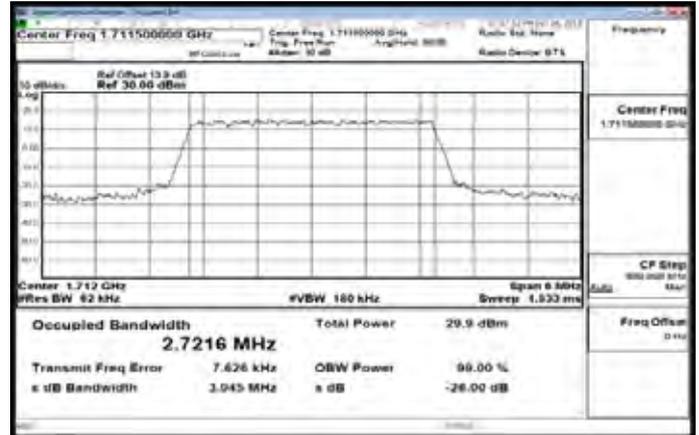
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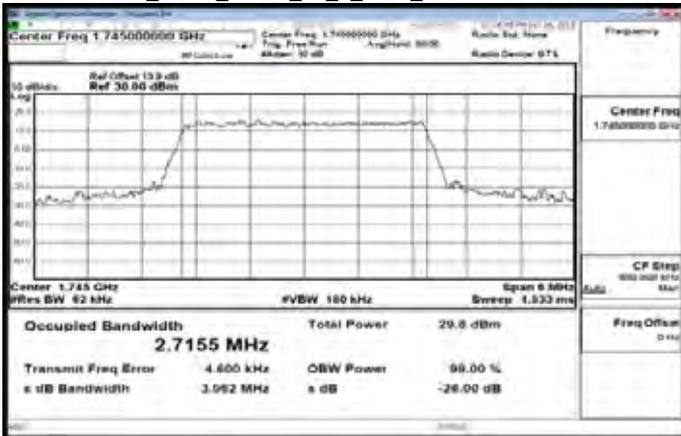
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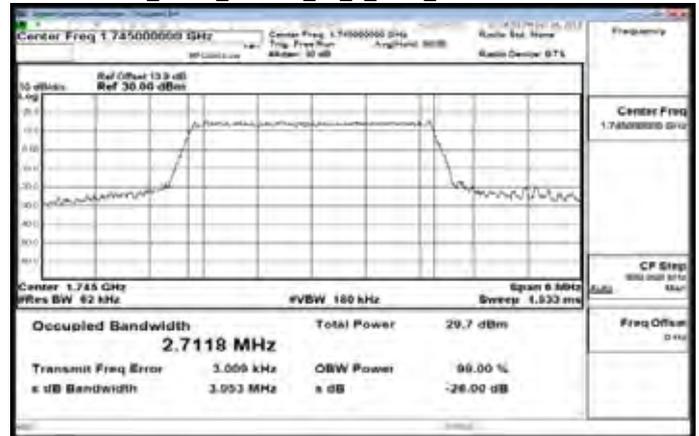
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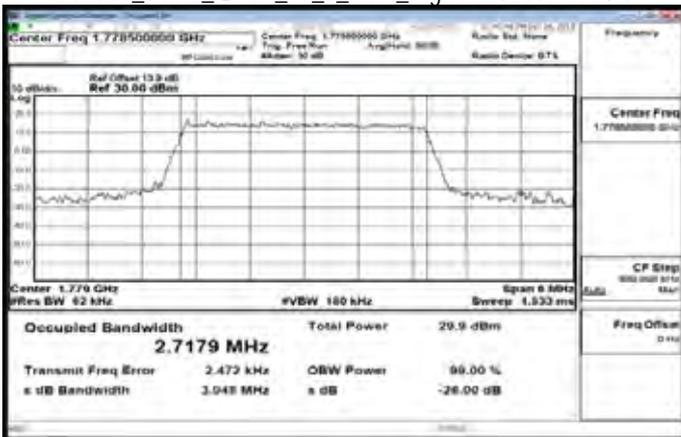
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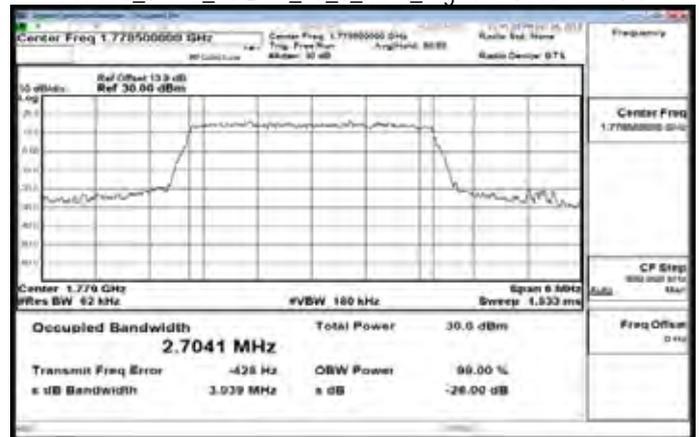
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Band66_3MHz_16QAM_15_0_Main_HighCH132657-1778.5



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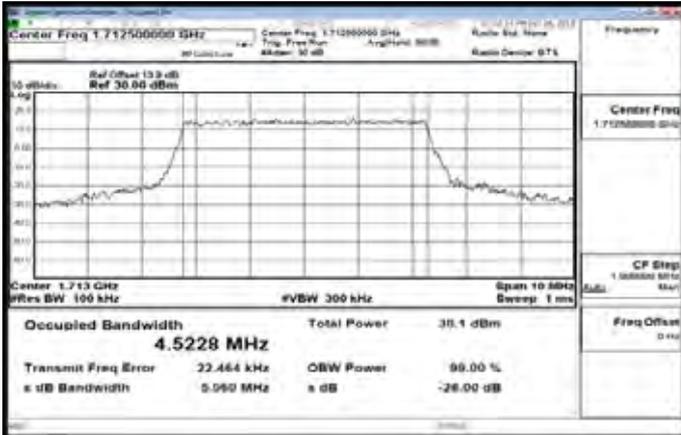
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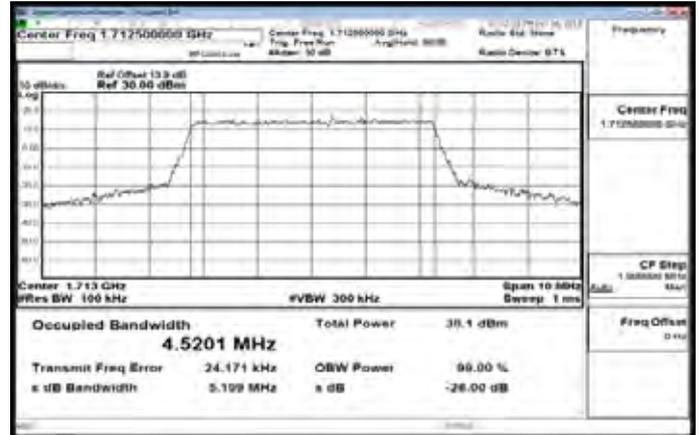
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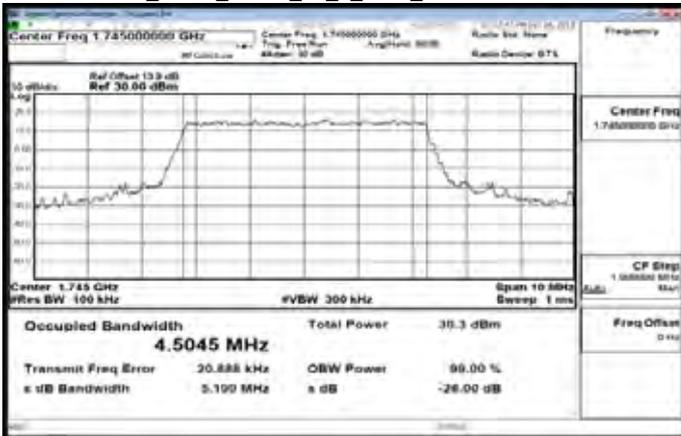
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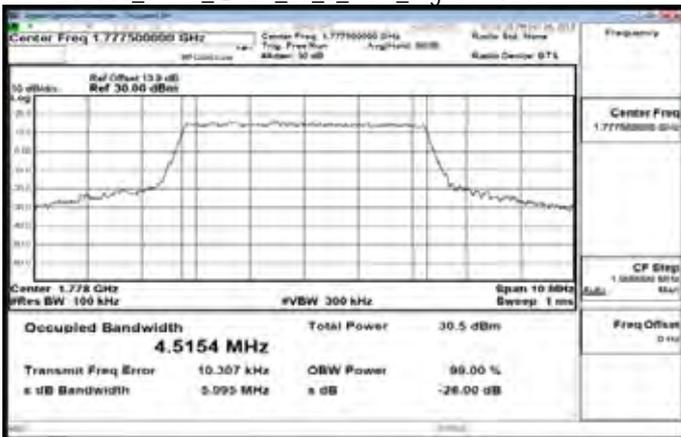
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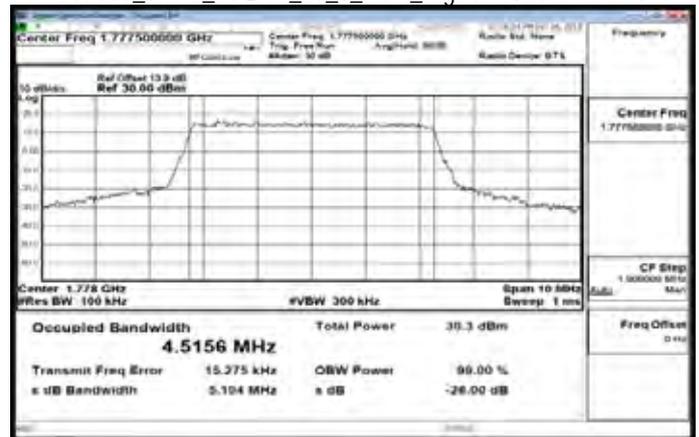
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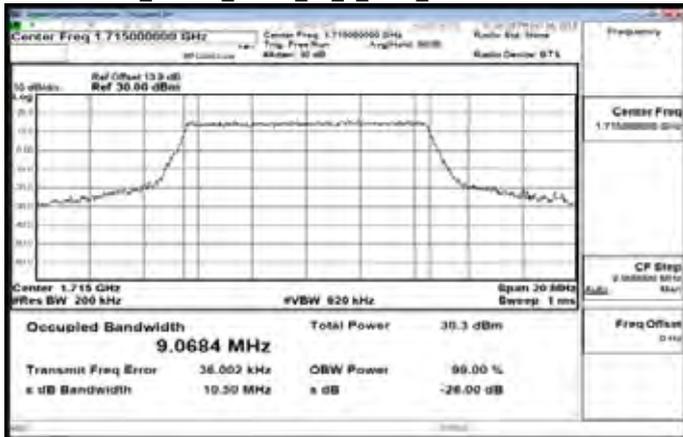
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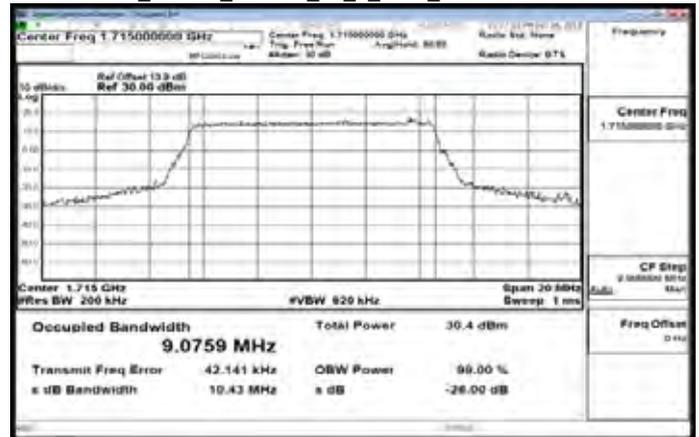
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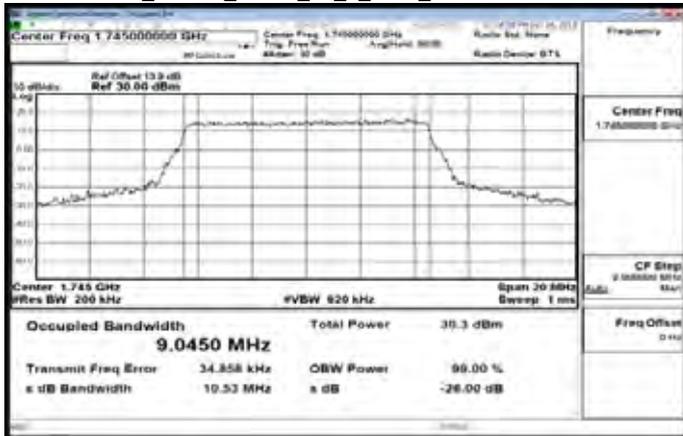
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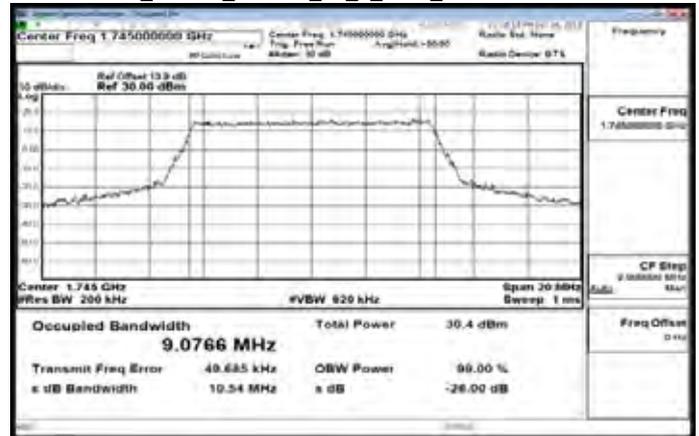
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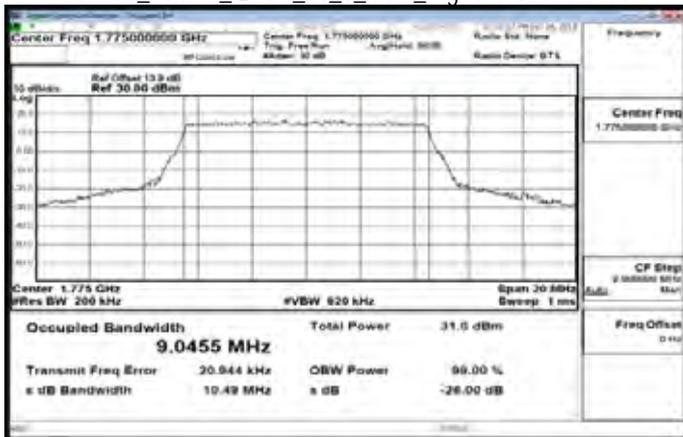
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Band66_10MHz_16QAM_50_0_Main_HighCH132622-1775



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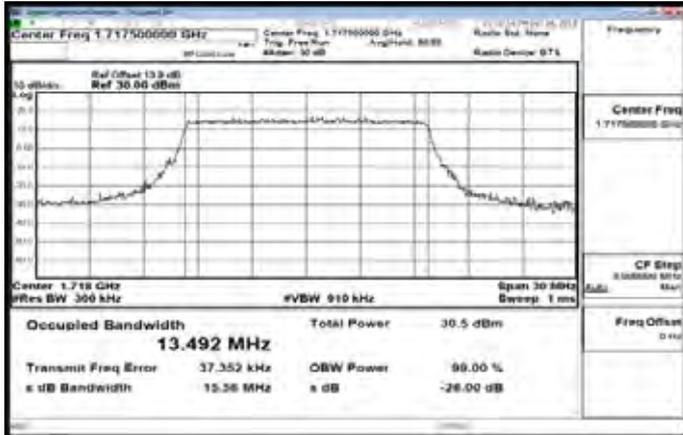
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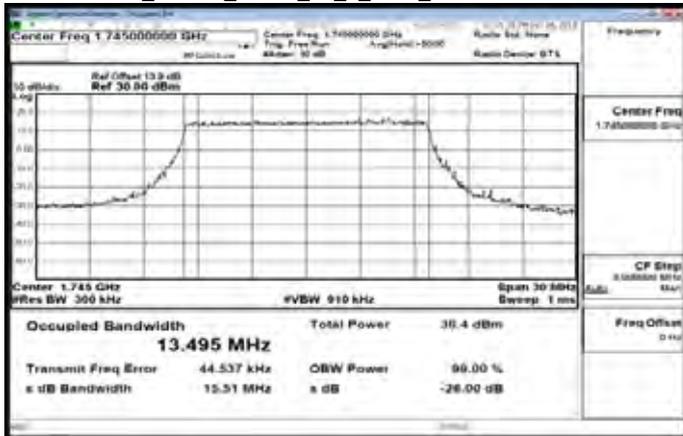
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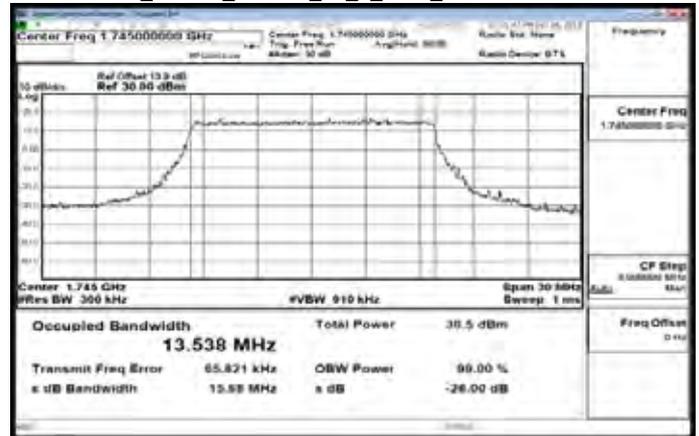
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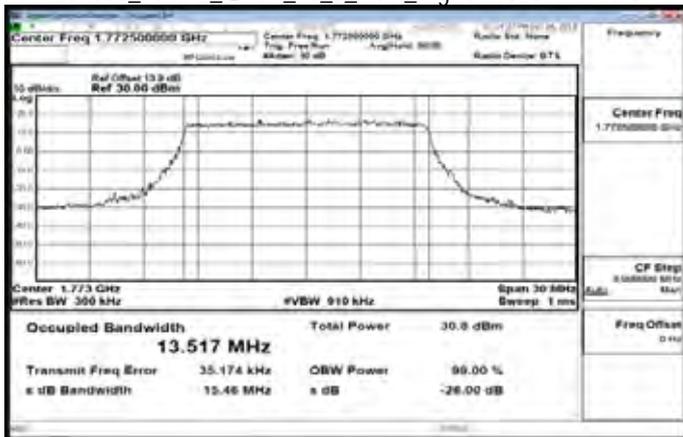
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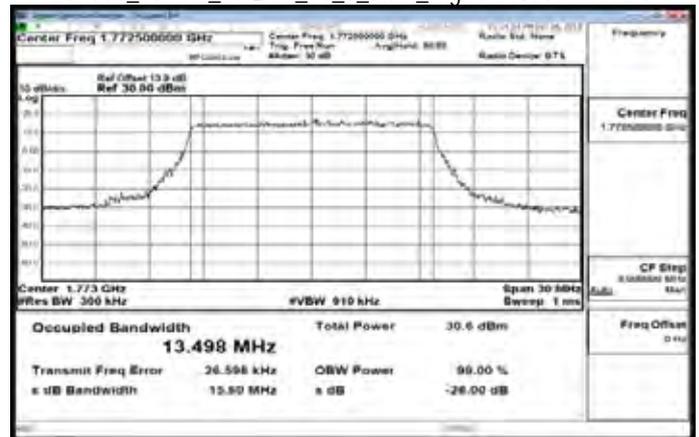
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Band66_15MHz_16QAM_75_0_Main_HighCH132597-1772.5



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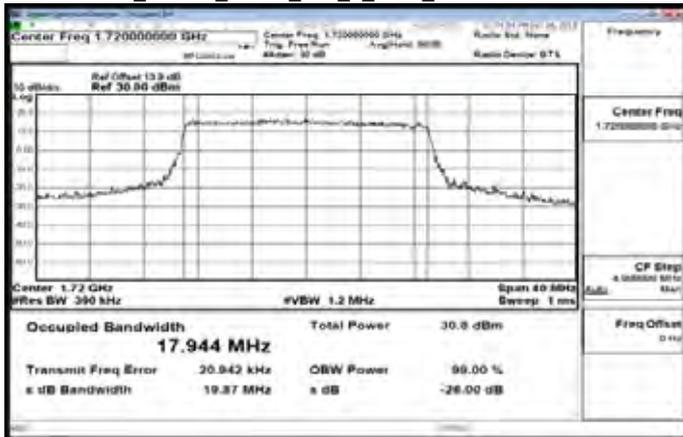
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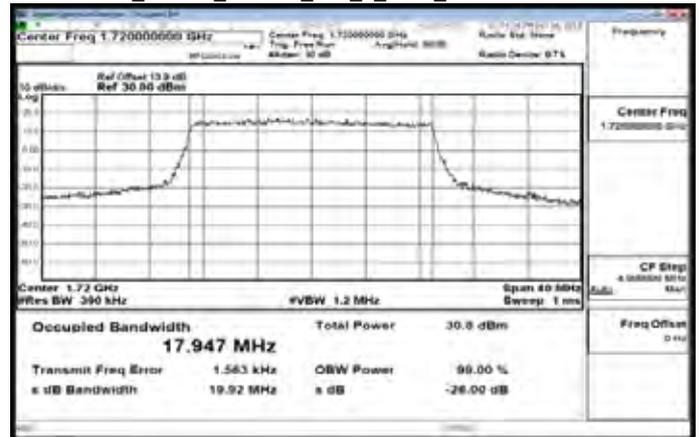
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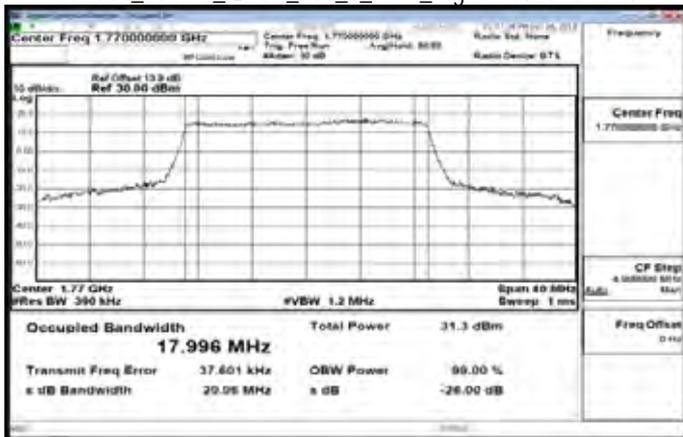
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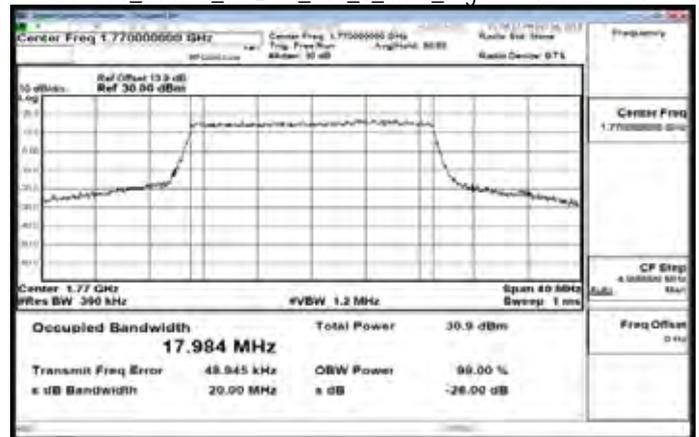
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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.3 Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(h), Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

FCC §27.53(c)

(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;

§27.53 (f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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.

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FCC §27.53(h) (3)

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.

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 paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

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

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§90.691 Emission mask requirements for EA-based systems.

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

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

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

§90.543 Emission limitations

(e) For operations in the 758-768 MHz and the 788-798 MHz bands, 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:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

(2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log(P)$ dB.

(4) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(5) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

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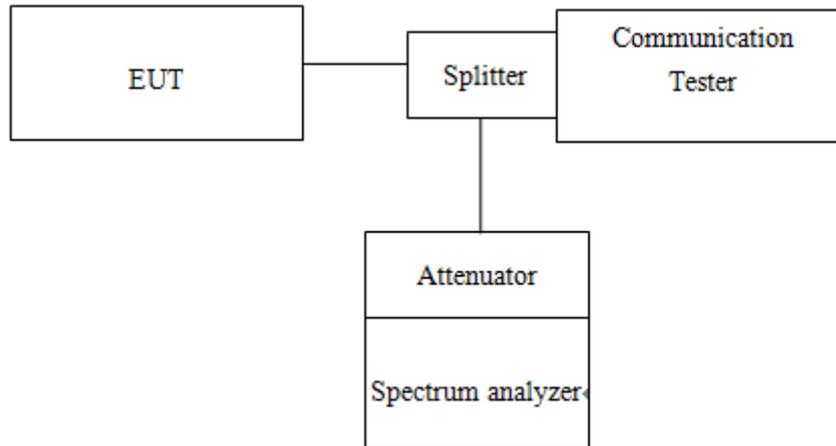
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8.4 Test SET-UP



8.5 Measurement Procedure Conducted Emission

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

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

Band Edge

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

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8.6 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25

8.7 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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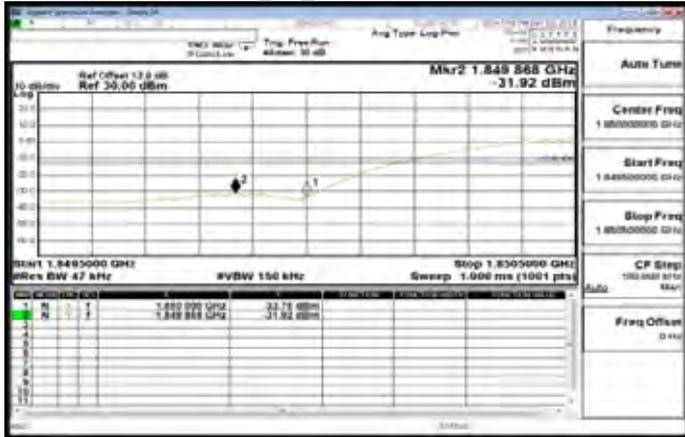
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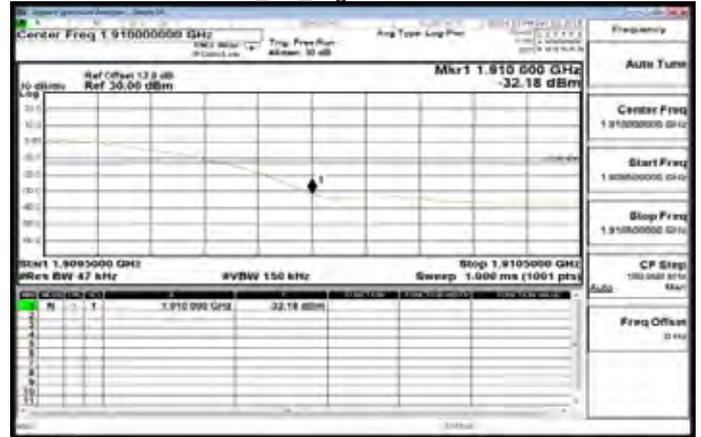
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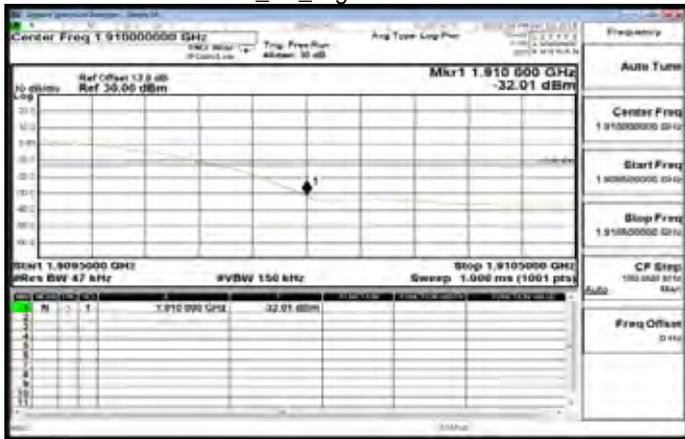
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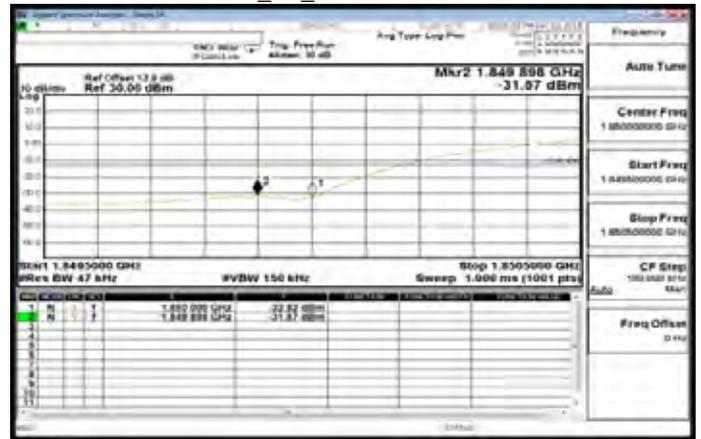
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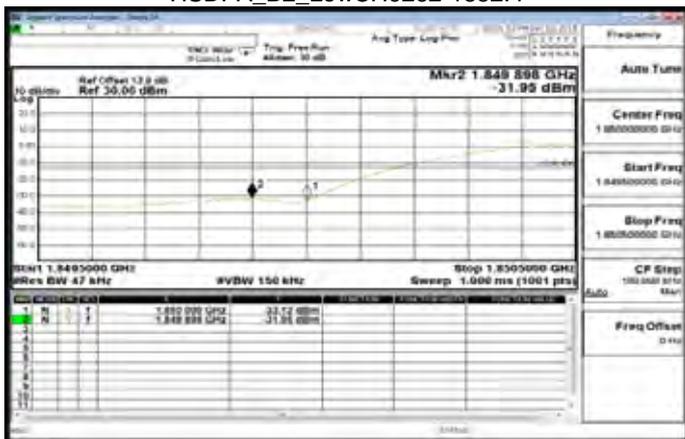
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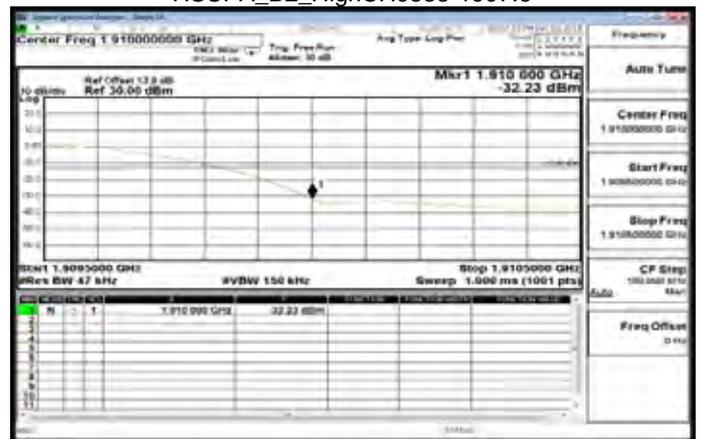
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HSUPA_B2_HighCH9538-1907.6



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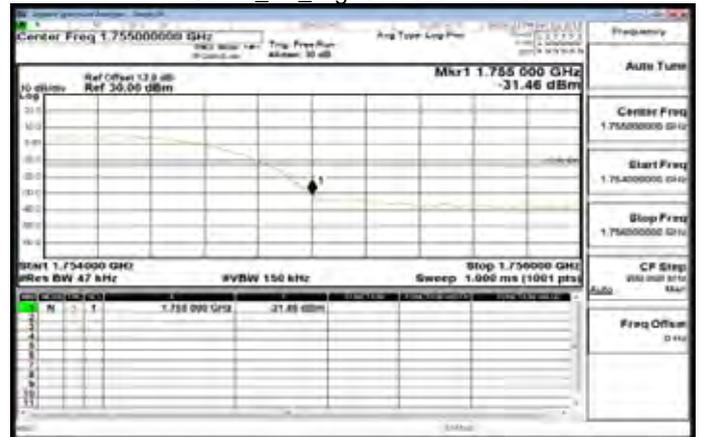
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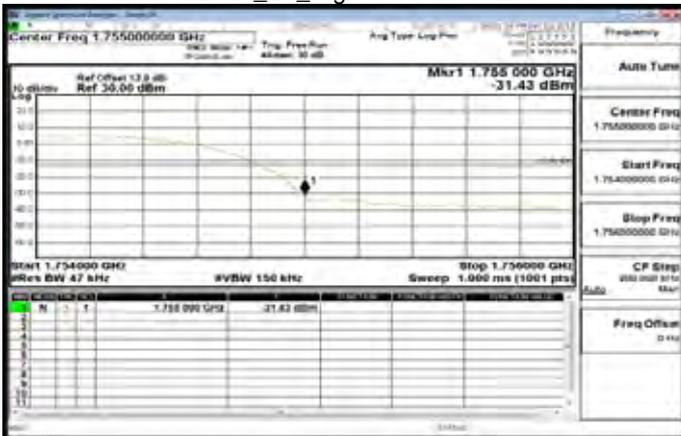
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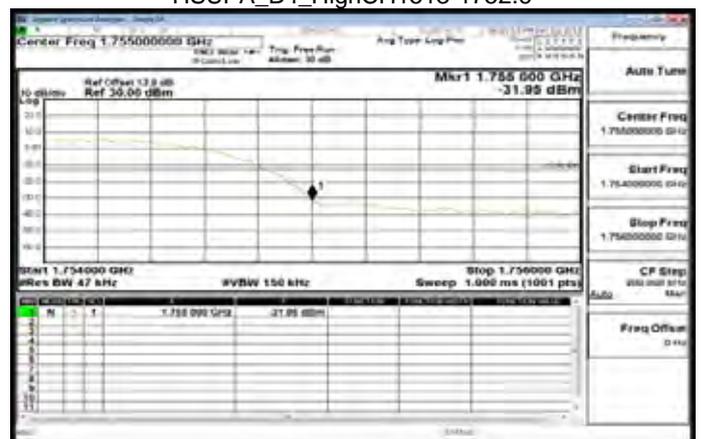
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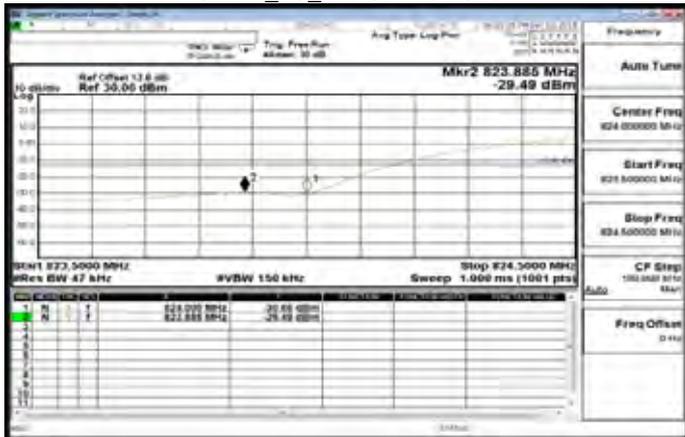


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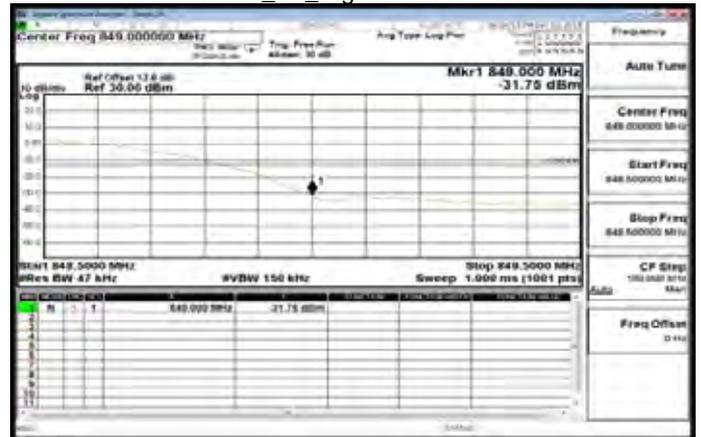
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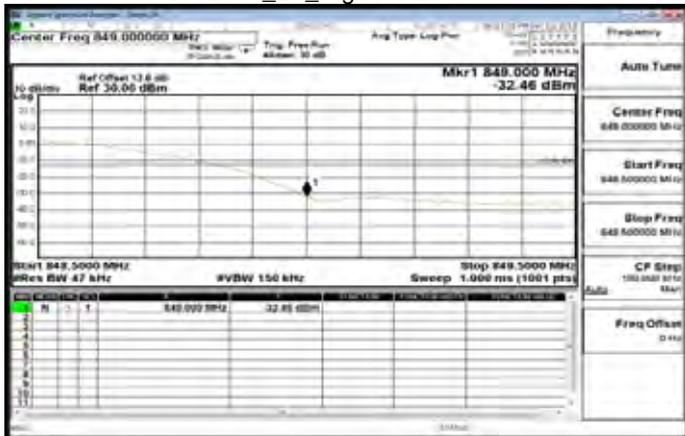
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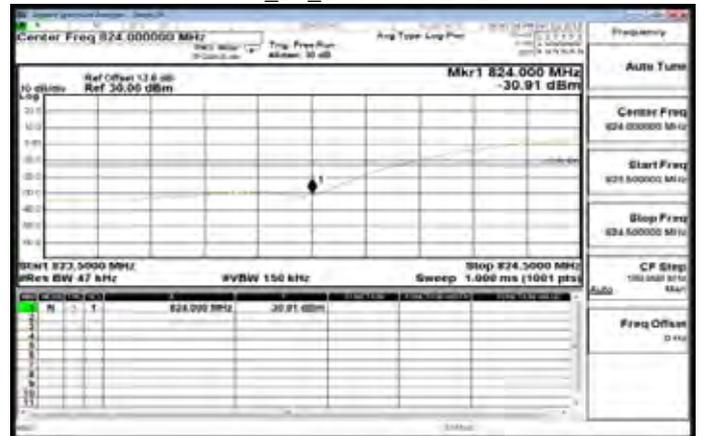
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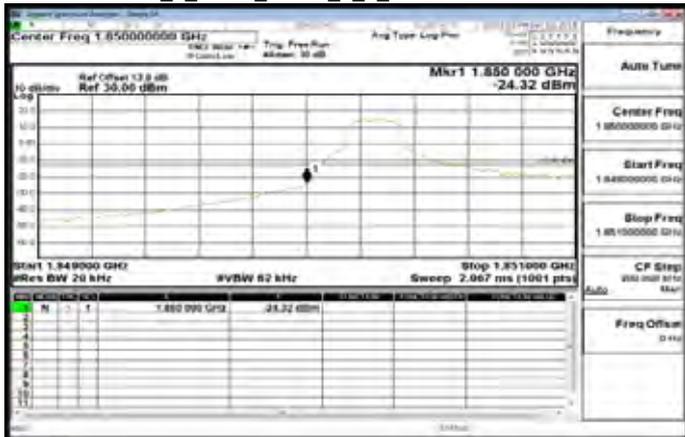


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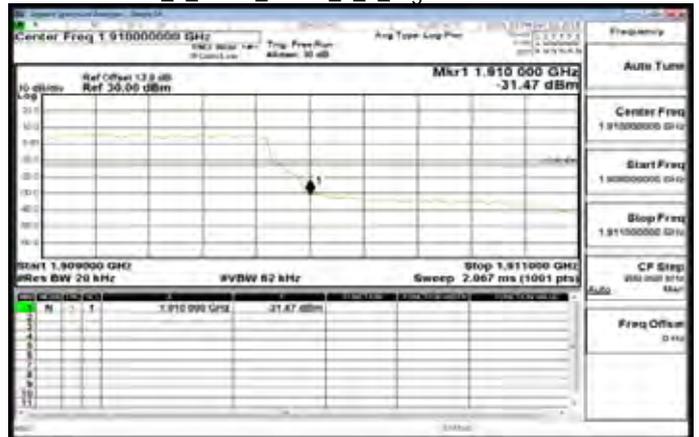
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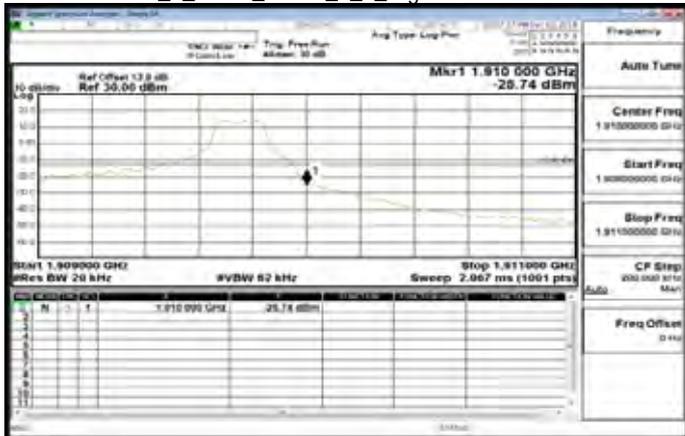
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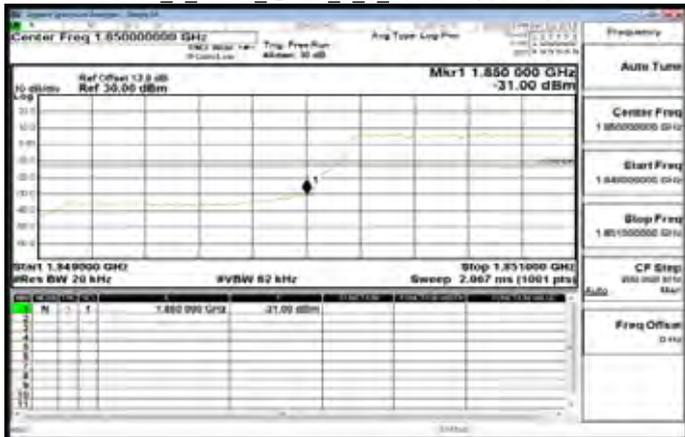
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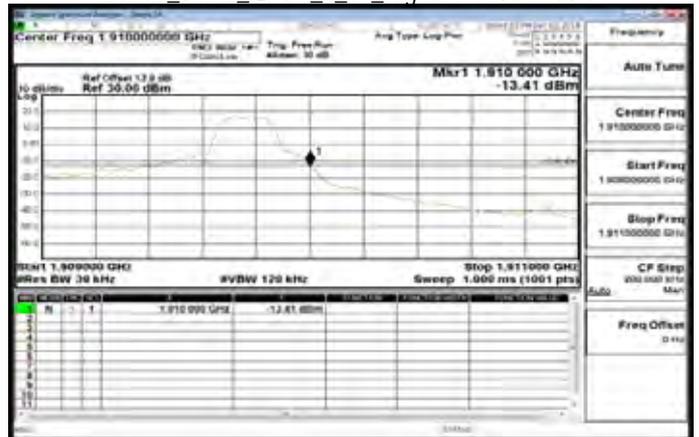
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Band2_1_4MHz_QPSK_6_0_LowCH18607-1850.7



Band2_3MHz_QPSK_1_14_HighCH19185-1908.5



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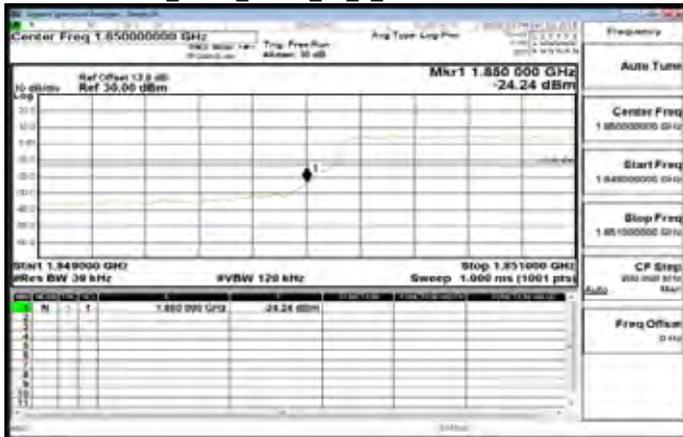
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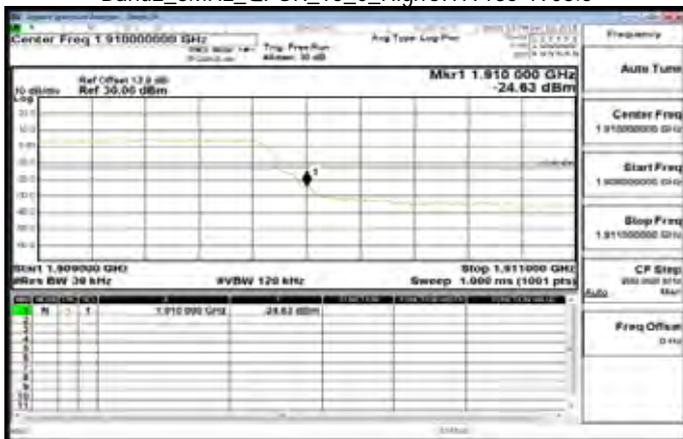
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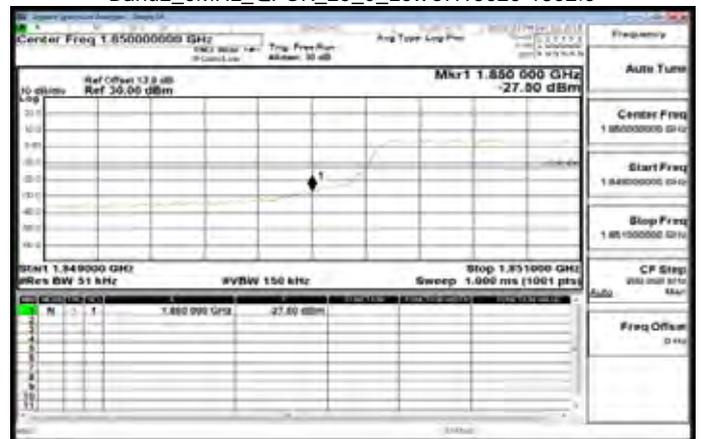
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Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



Band2_5MHz_QPSK_25_0_LowCH18625-1852.5



Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



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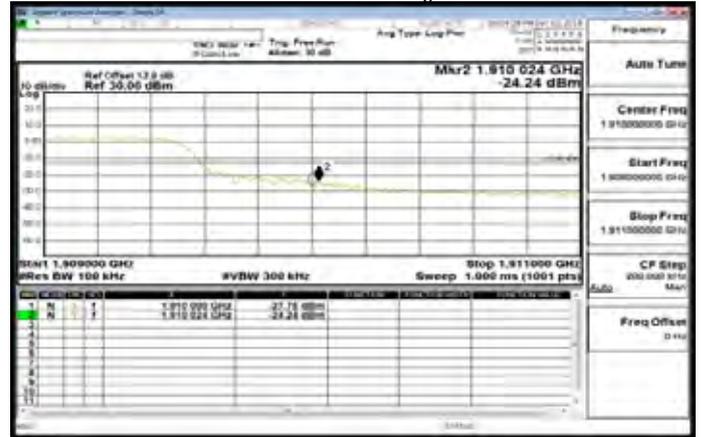
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Band2_10MHz_QPSK_1_0_LowCH18650-1855



Band2_10MHz_QPSK_50_0_HighCH19150-1905



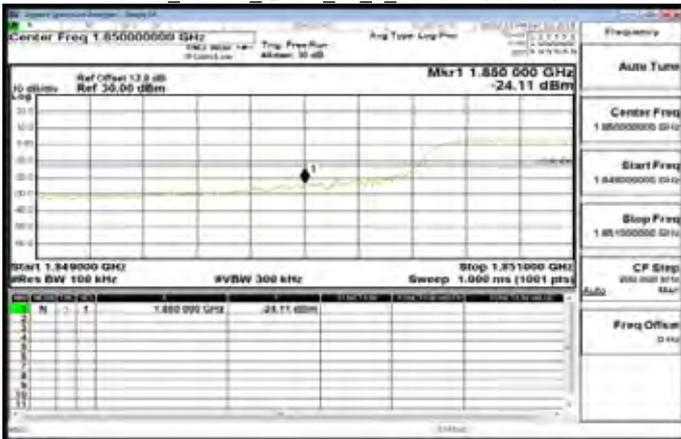
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Band2_15MHz_QPSK_1_0_LowCH18675-1857.5



Band2_10MHz_QPSK_50_0_LowCH18650-1855



Band2_15MHz_QPSK_1_74_HighCH19125-1902.5



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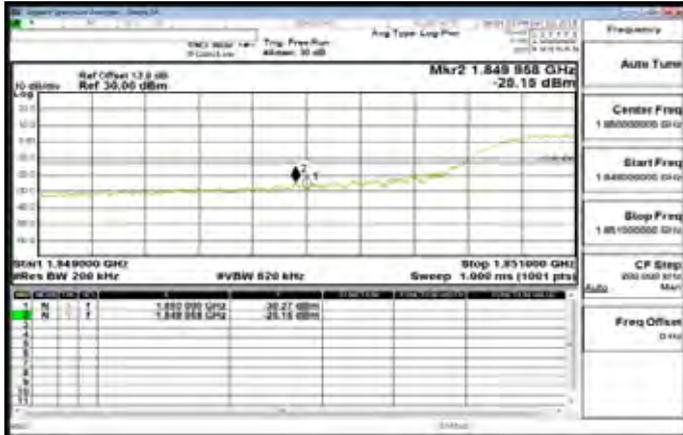
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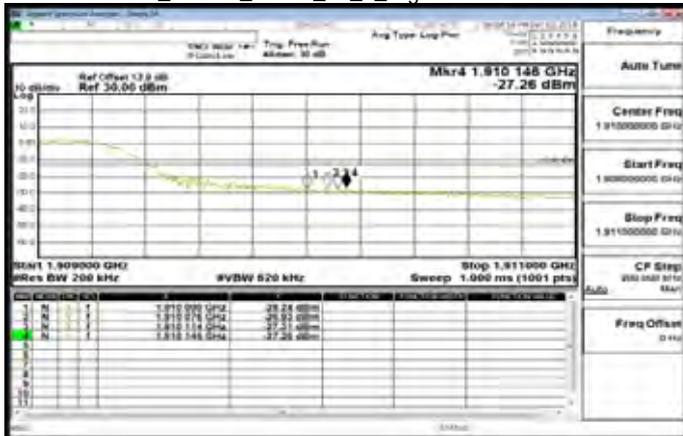
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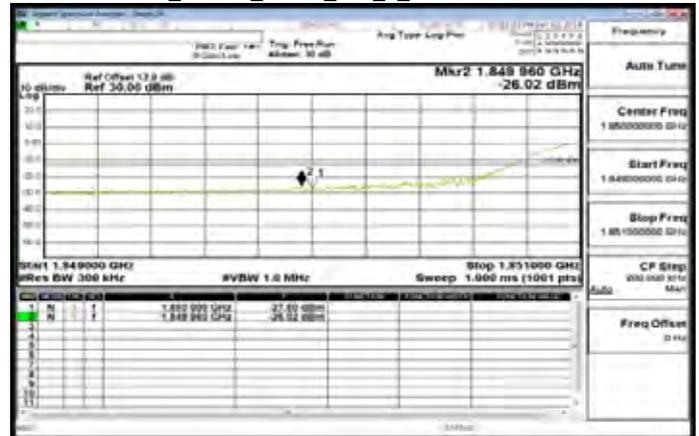
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Band2_15MHz_QPSK_75_0_HighCH19125-1902.5



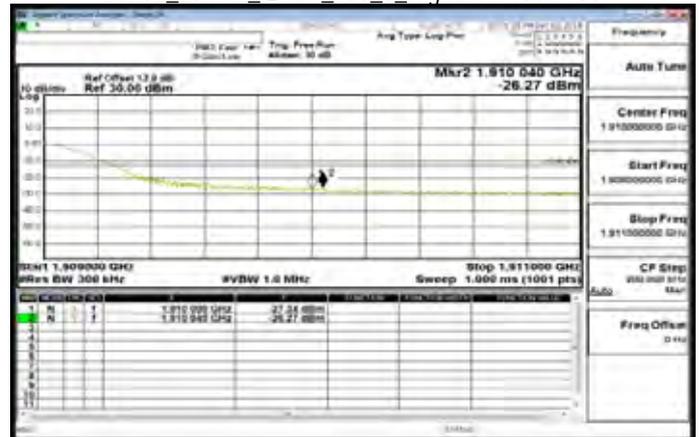
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Band2_20MHz_QPSK_100_0_HighCH19100-1900



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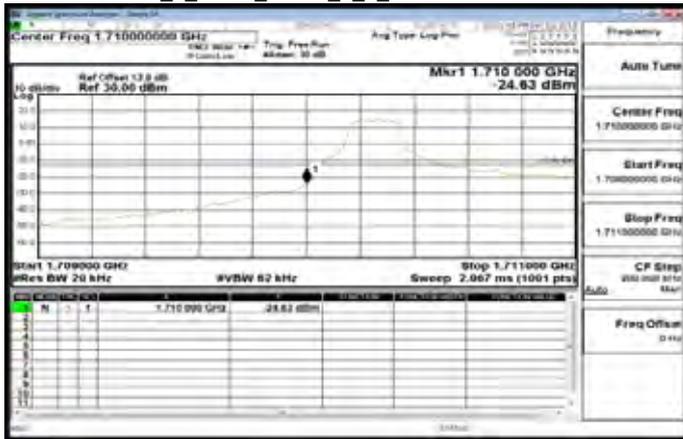
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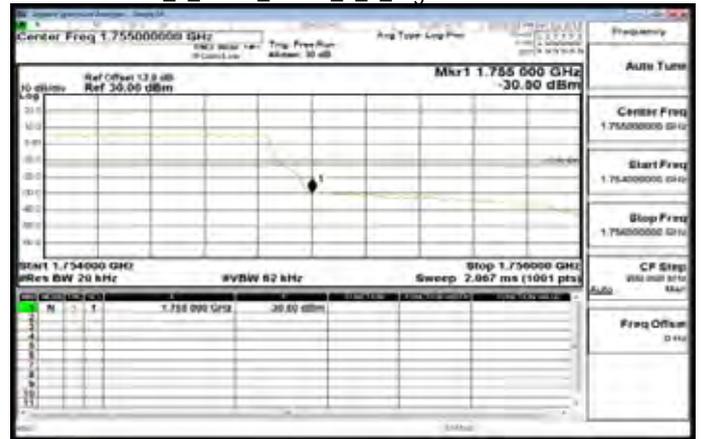
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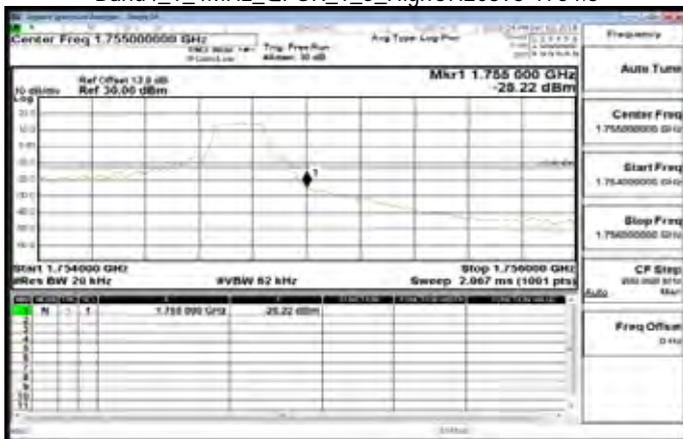
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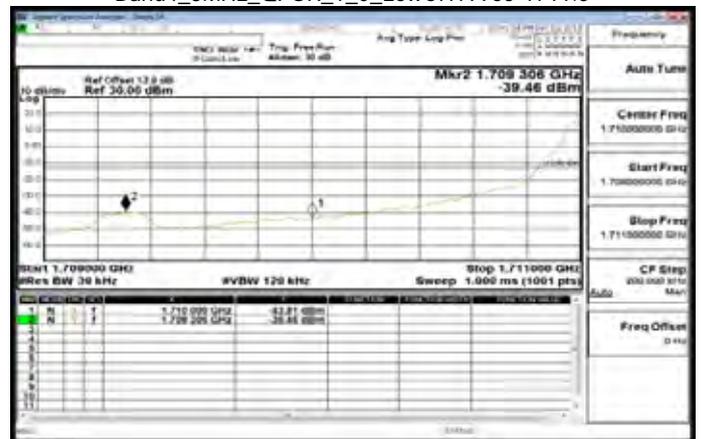
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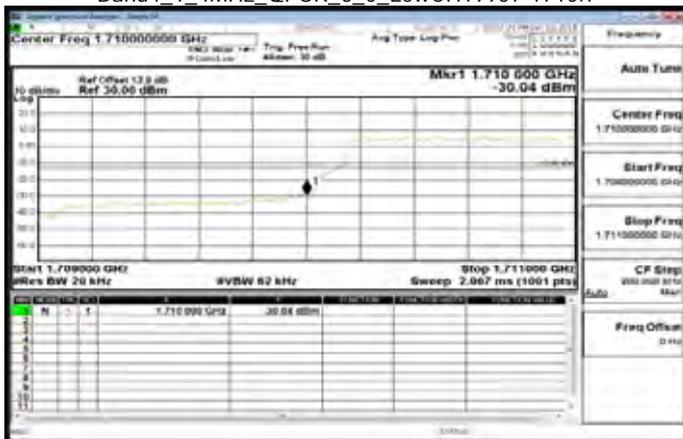
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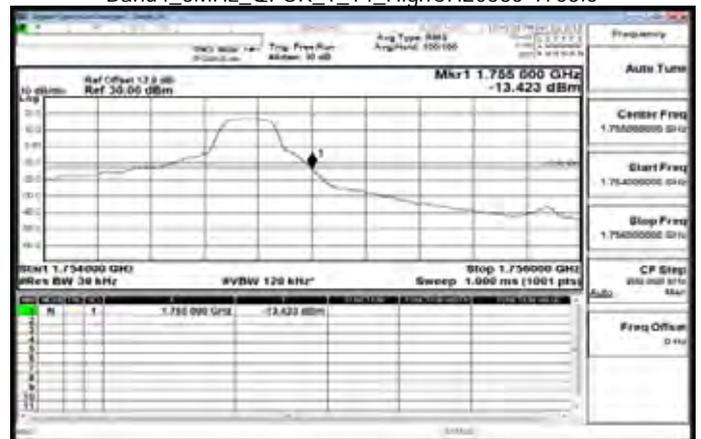
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Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



Band4_3MHz_QPSK_1_14_HighCH20385-1753.5



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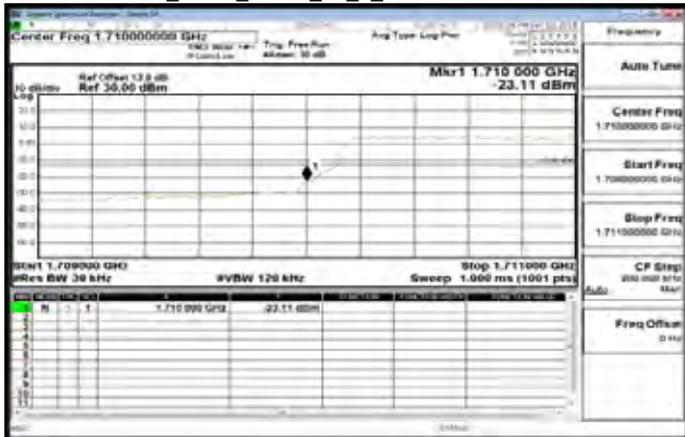
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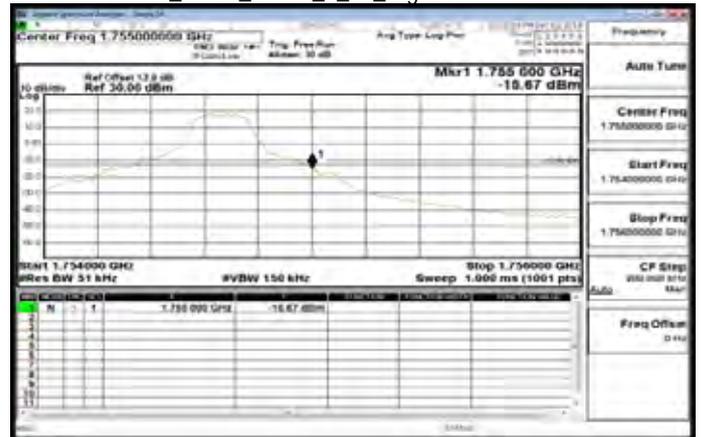
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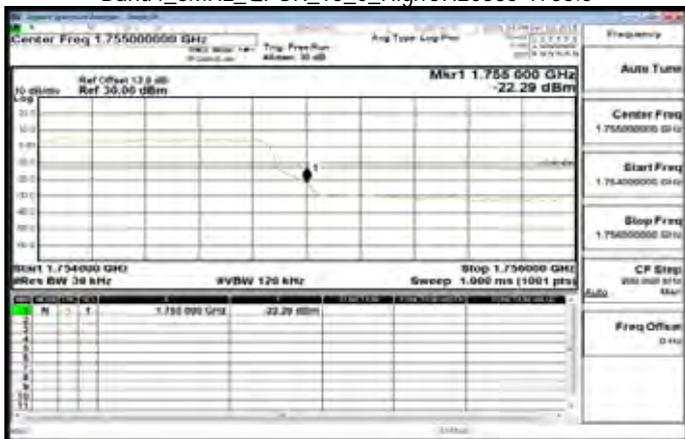
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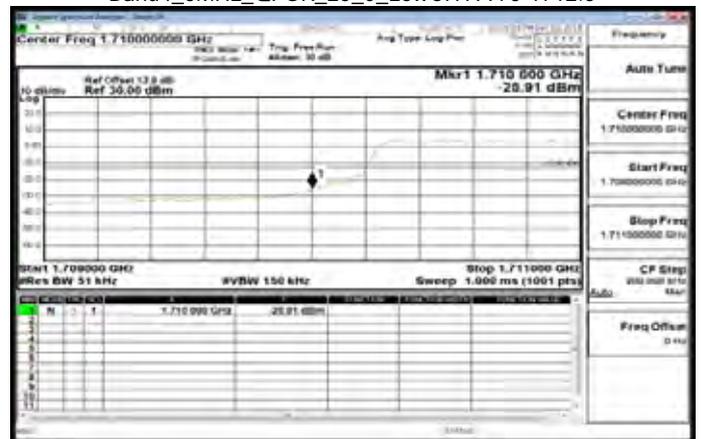
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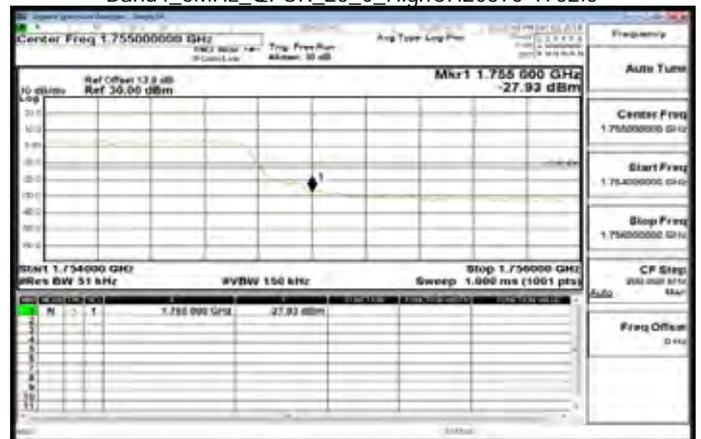
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Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



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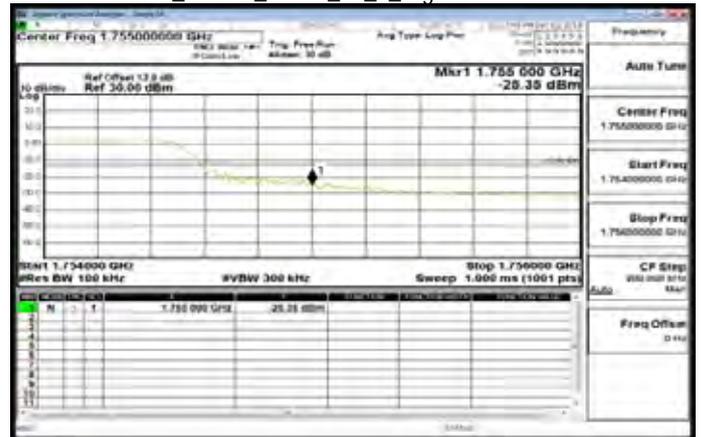
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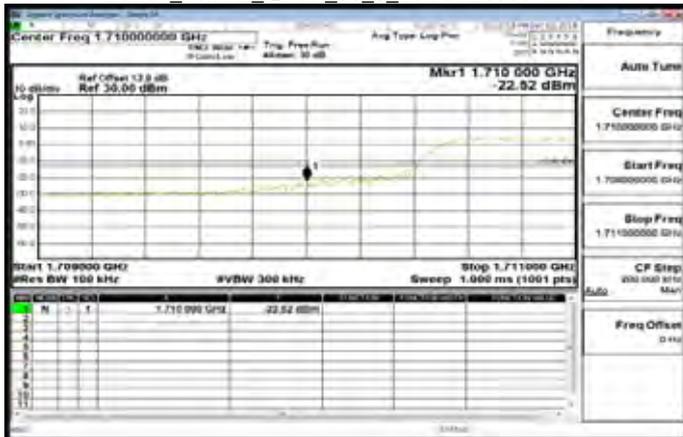
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Band4_10MHz_QPSK_50_0_LowCH20000-1715



Band4_15MHz_QPSK_1_74_HighCH20325-1747.5



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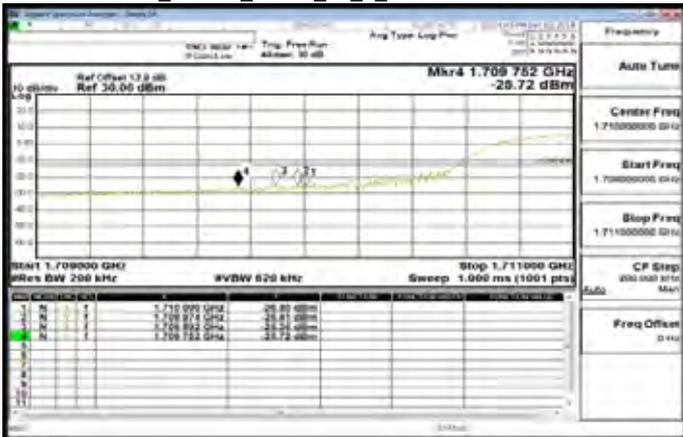
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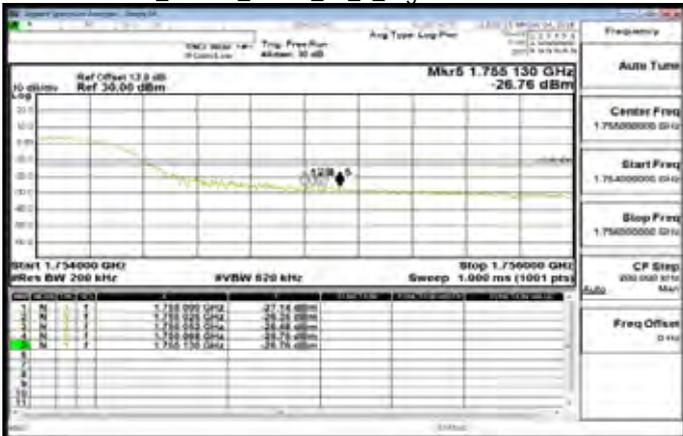
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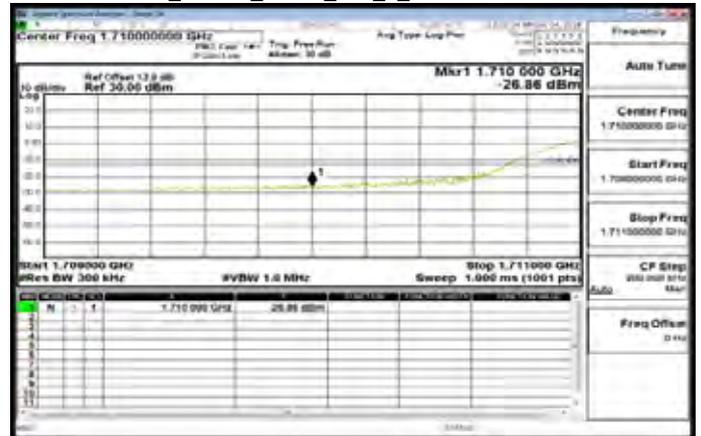
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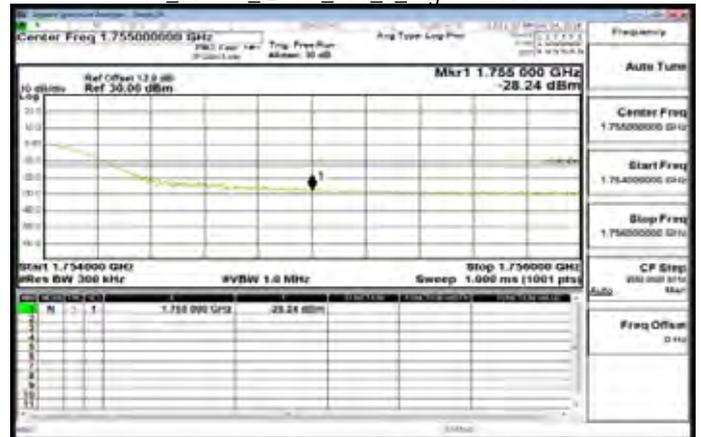
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Band4_20MHz_QPSK_100_0_HighCH20300-1745



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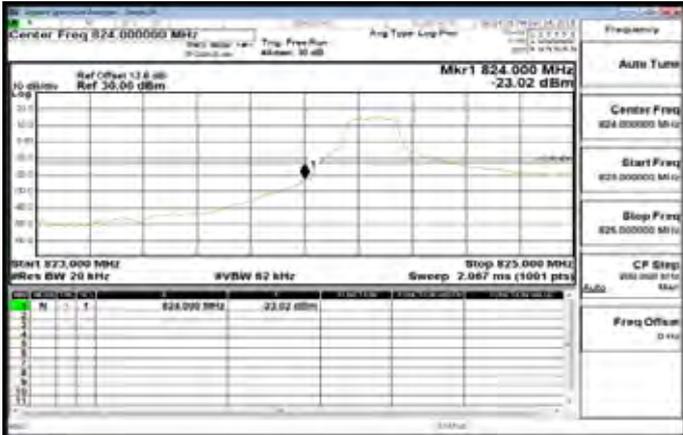
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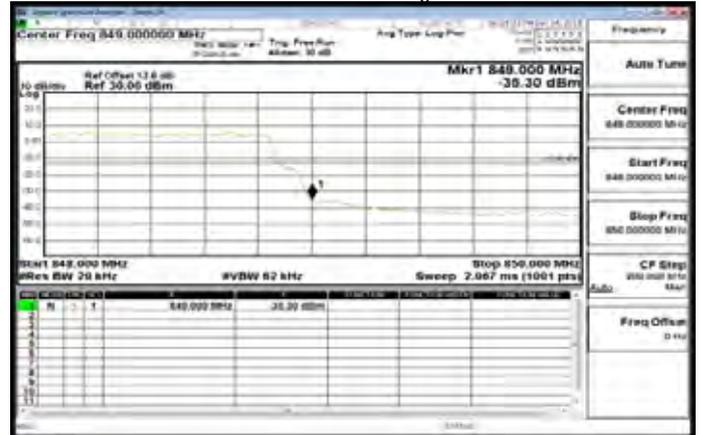
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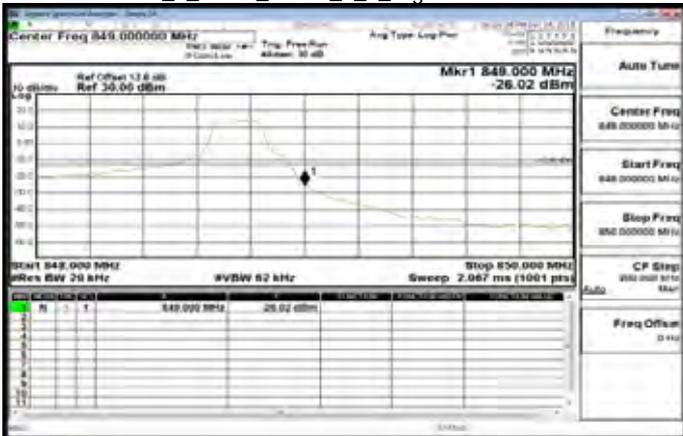
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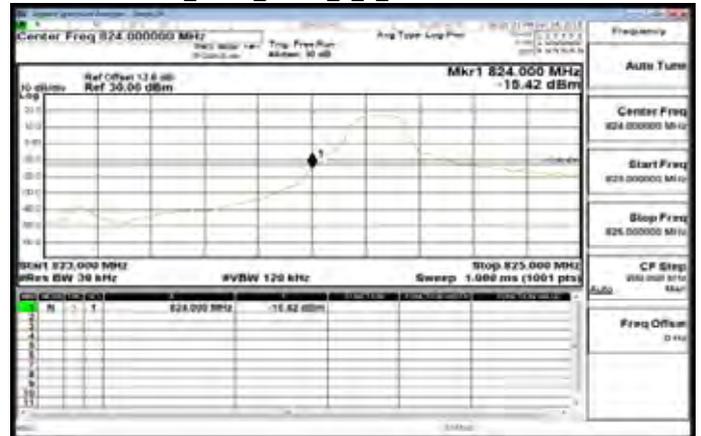
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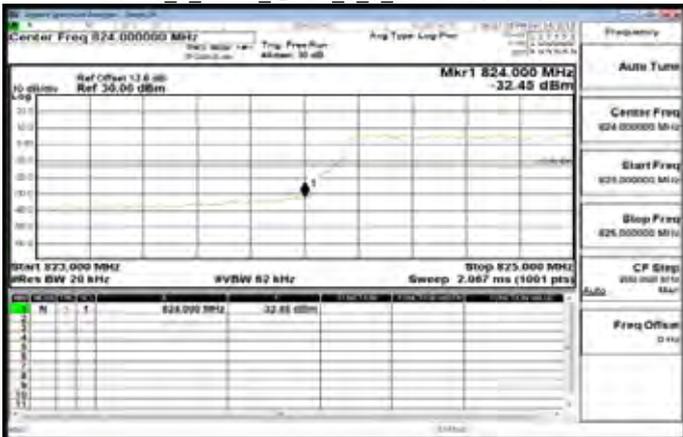
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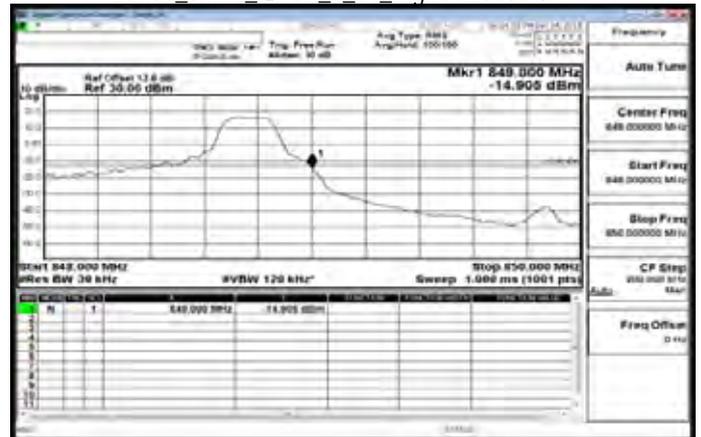
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Band5_3MHz_QPSK_1_14_HighCH20635-847.5



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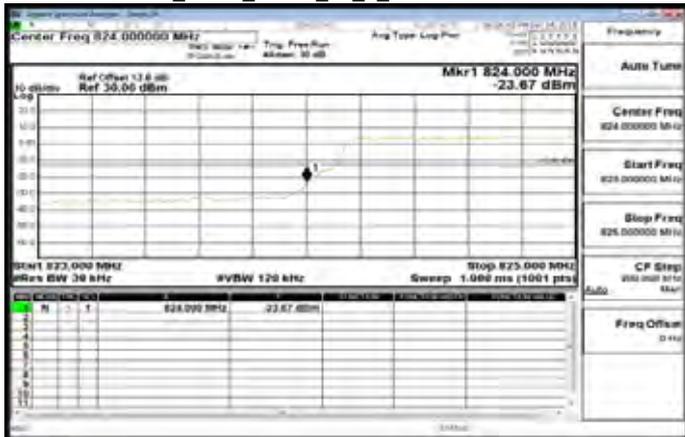
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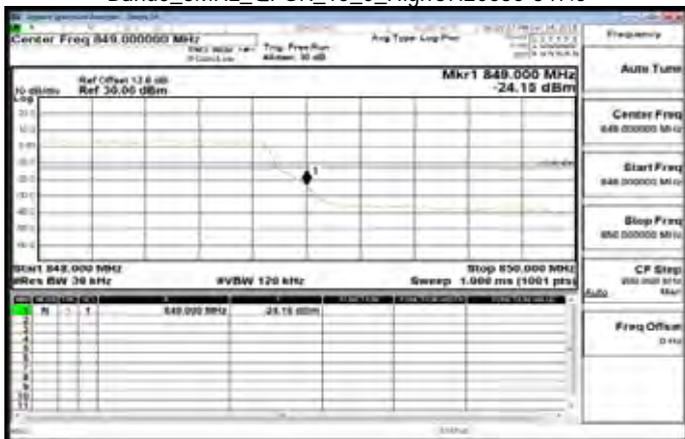
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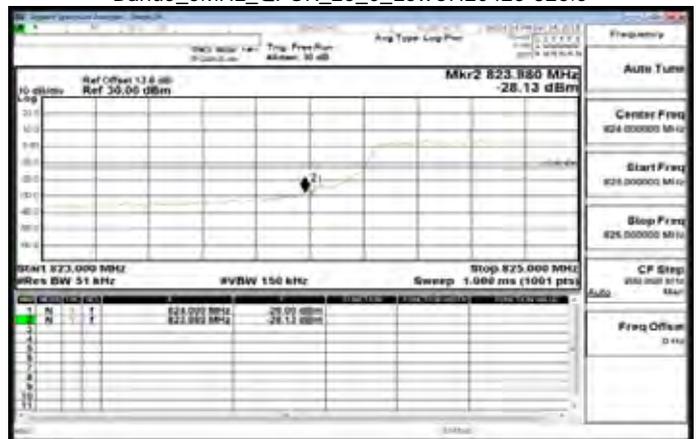
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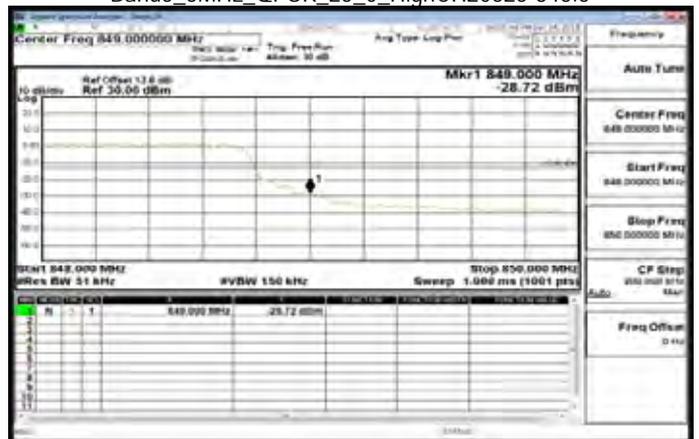
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Band5_5MHz_QPSK_25_0_HighCH20625-846.5



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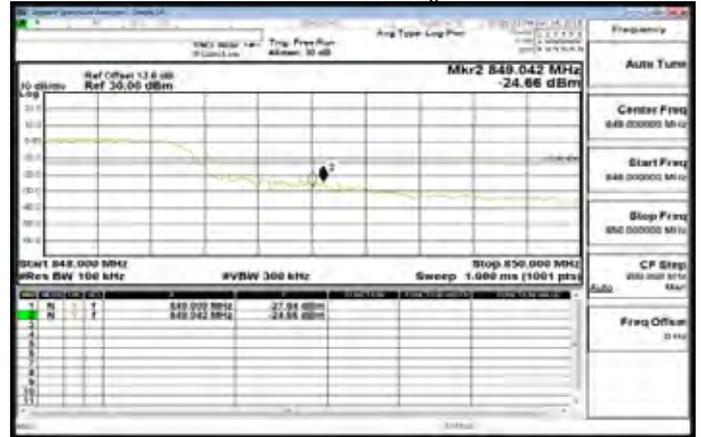
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Band5_10MHz_QPSK_1_0_LowCH20450-829



Band5_10MHz_QPSK_50_0_HighCH20600-844



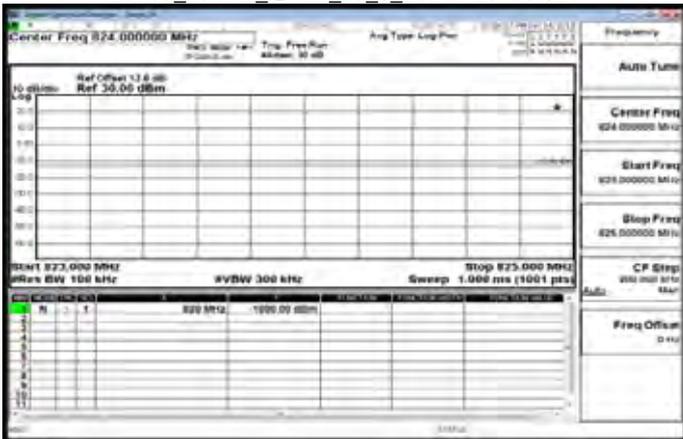
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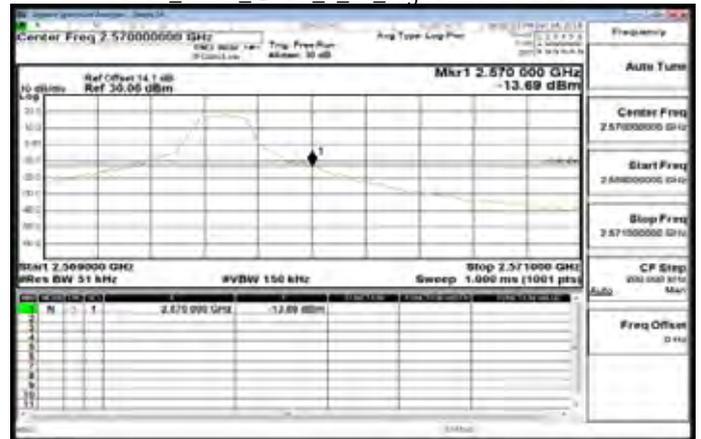
Band7_5MHz_QPSK_1_0_LowCH20775-2502.5



Band5_10MHz_QPSK_50_0_LowCH20450-829



Band7_5MHz_QPSK_1_24_HighCH21425-2567.5



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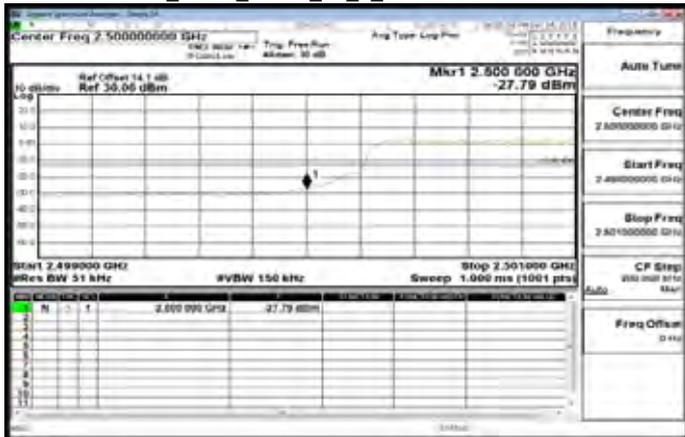
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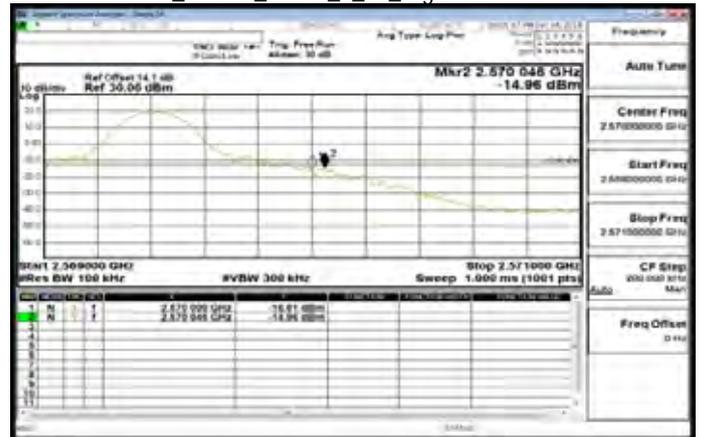
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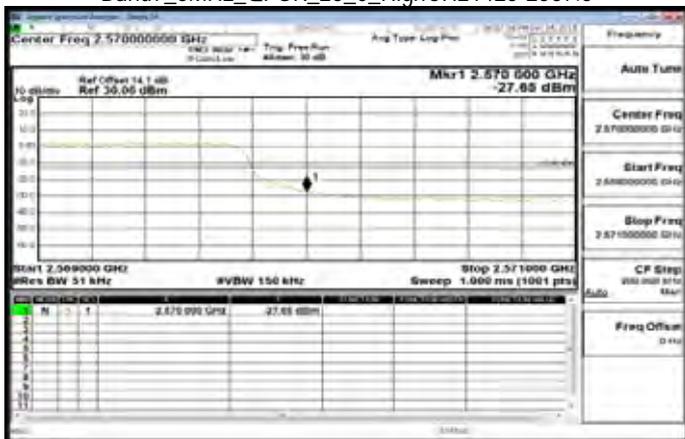
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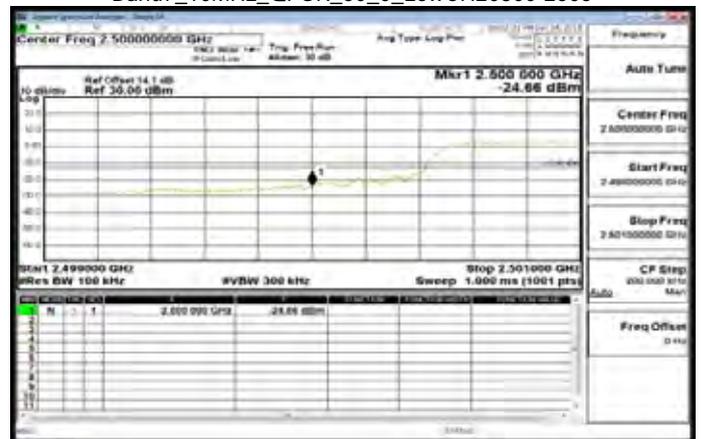
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Band7_5MHz_QPSK_25_0_HighCH21425-2567.5



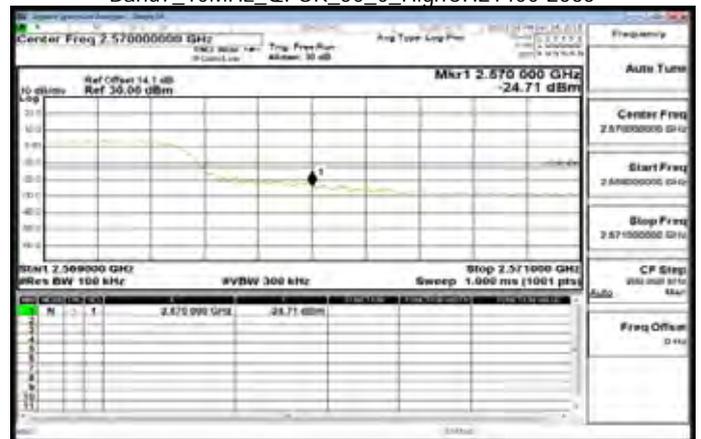
Band7_10MHz_QPSK_50_0_LowCH20800-2505



Band7_10MHz_QPSK_1_0_LowCH20800-2505



Band7_10MHz_QPSK_50_0_HighCH21400-2565



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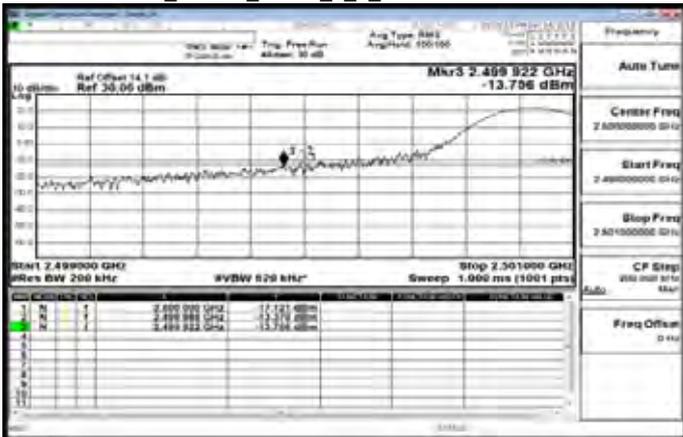
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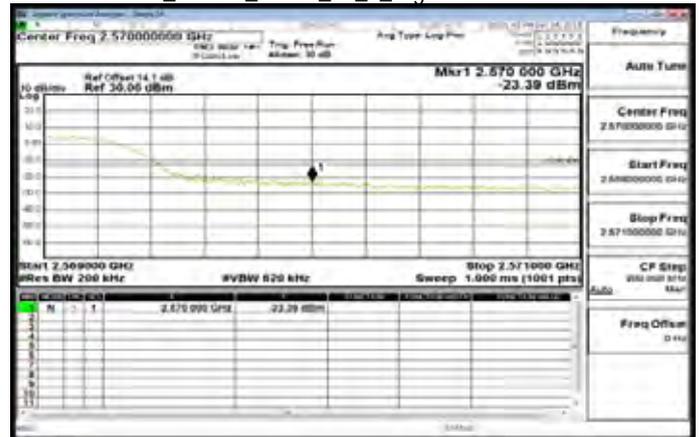
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Band7_15MHz_QPSK_1_0_LowCH20825-2507.5



Band7_15MHz_QPSK_75_0_HighCH21375-2562.5



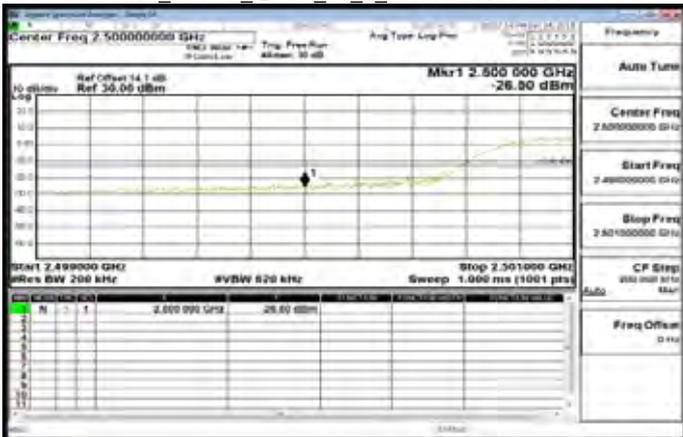
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Band7_20MHz_QPSK_1_0_LowCH20850-2510



Band7_15MHz_QPSK_75_0_LowCH20825-2507.5



Band7_20MHz_QPSK_1_99_HighCH21350-2560



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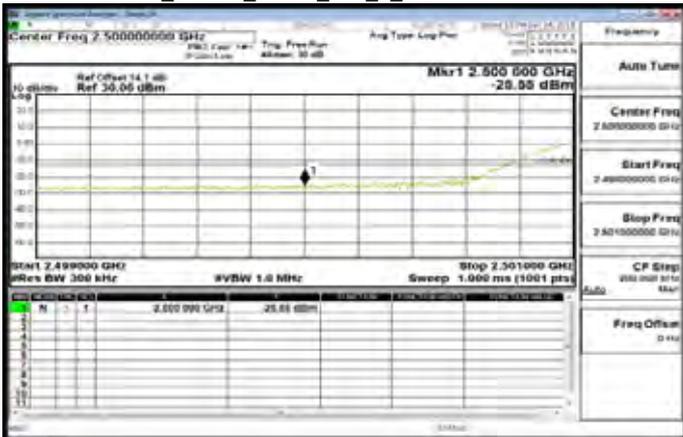
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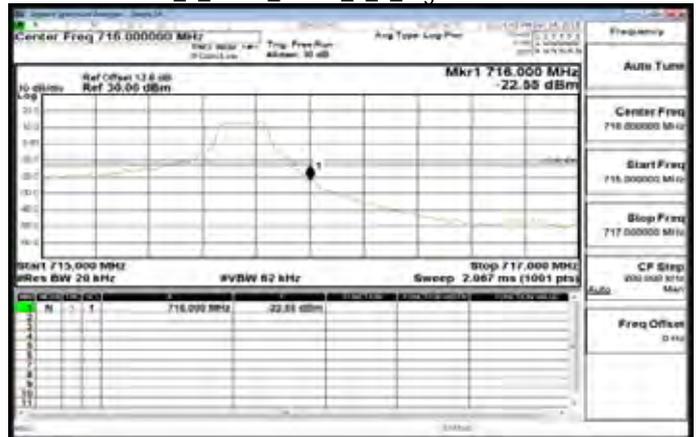
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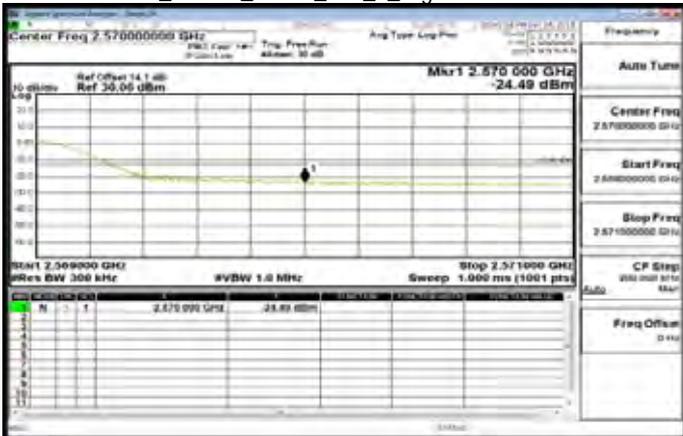
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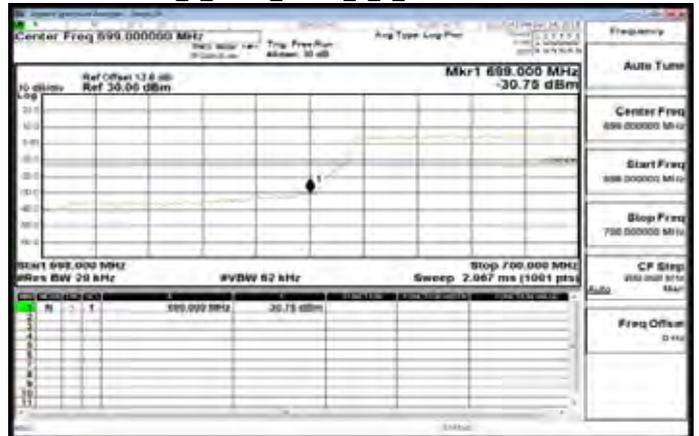
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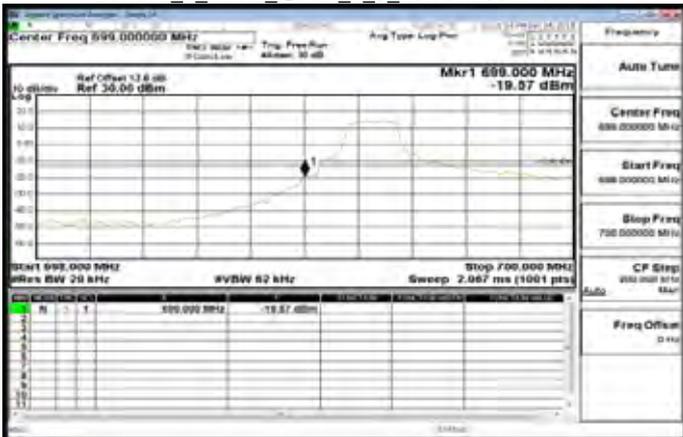
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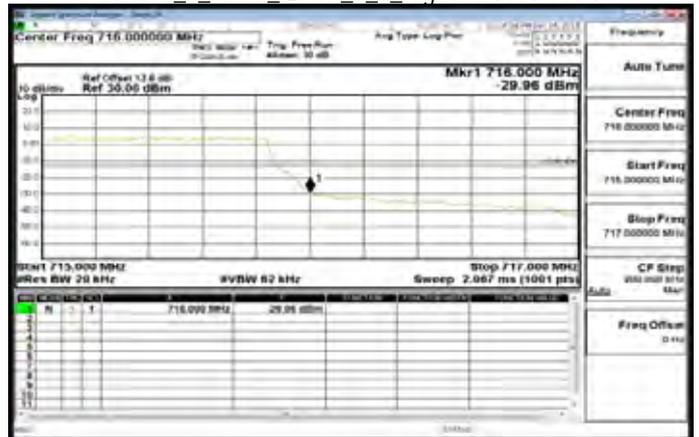
Band12_1_4MHz_QPSK_6_0_LowCH23017-699.7



Band12_1_4MHz_QPSK_1_0_LowCH23017-699.7



Band12_1_4MHz_QPSK_6_0_HighCH23173-715.3



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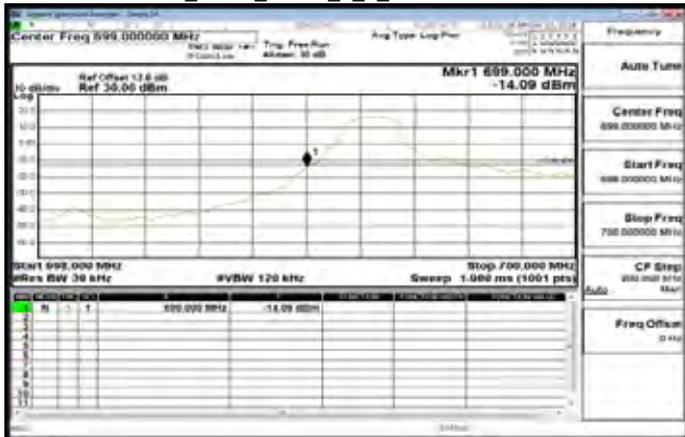
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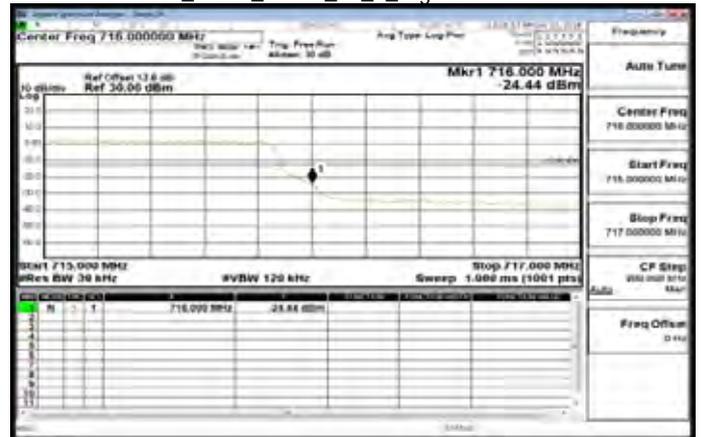
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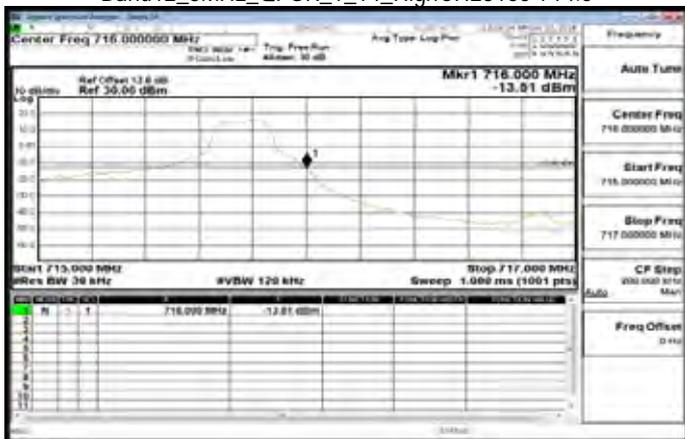
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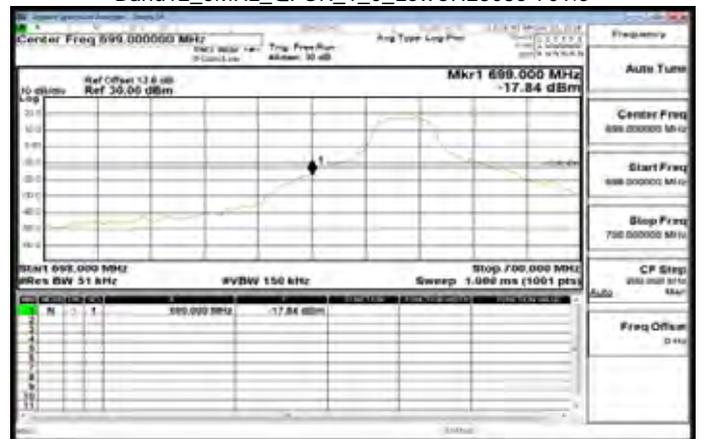
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Band12_3MHz_QPSK_1_14_HighCH23165-714.5



Band12_5MHz_QPSK_1_0_LowCH23035-701.5



Band12_3MHz_QPSK_15_0_LowCH23025-700.5



Band12_5MHz_QPSK_1_24_HighCH23155-713.5



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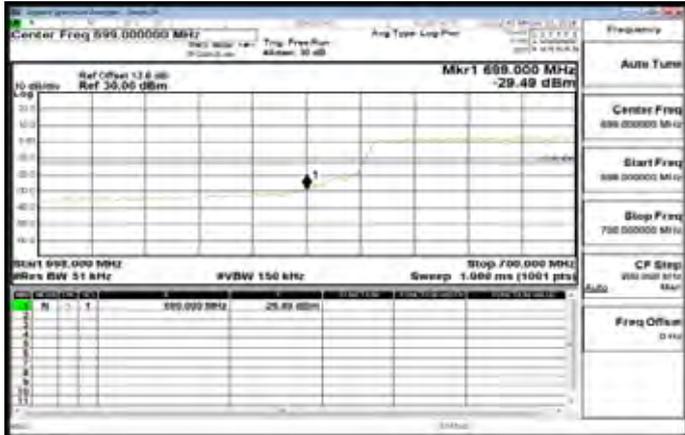
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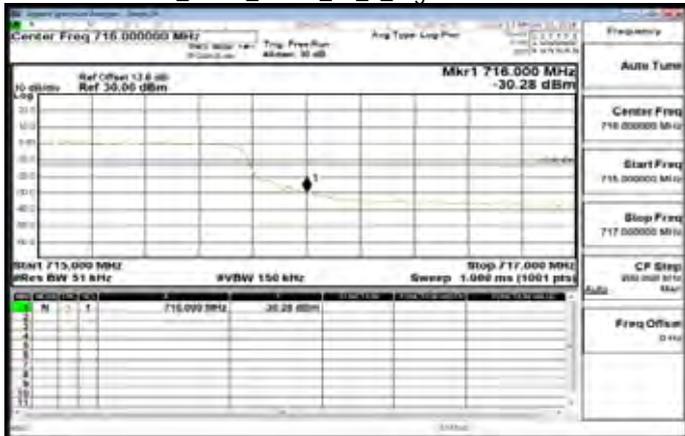
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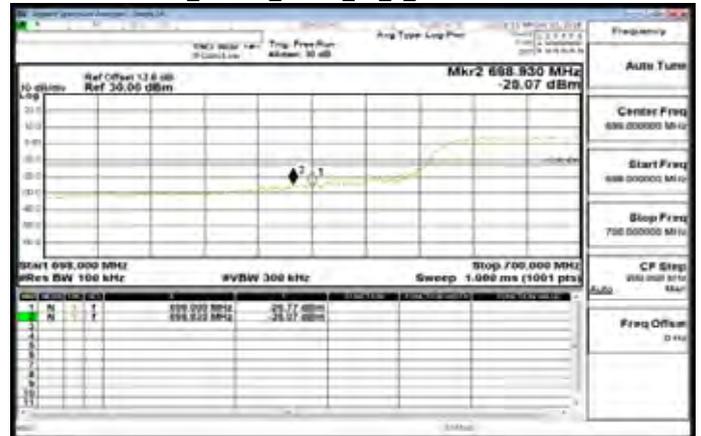
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Band12_5MHz_QPSK_25_0_HighCH23155-713.5



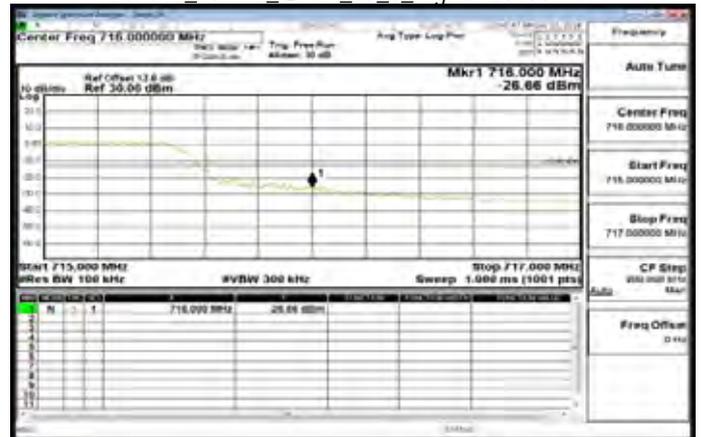
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Band12_10MHz_QPSK_1_0_LowCH23060-704



Band12_10MHz_QPSK_50_0_HighCH23130-711



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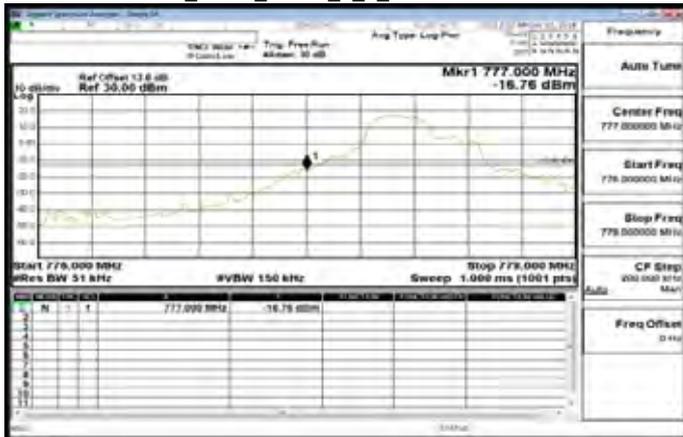
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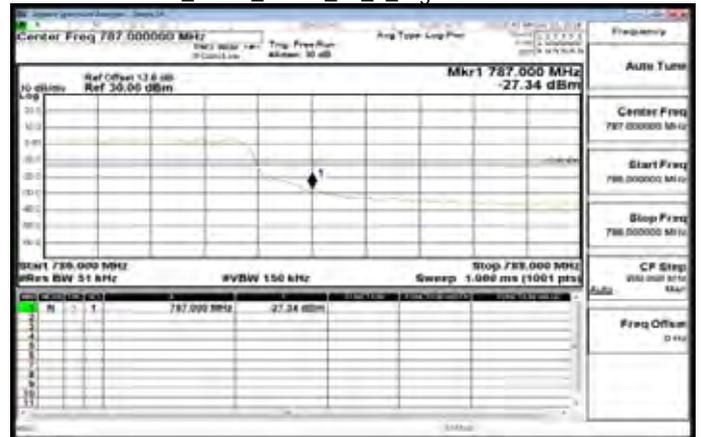
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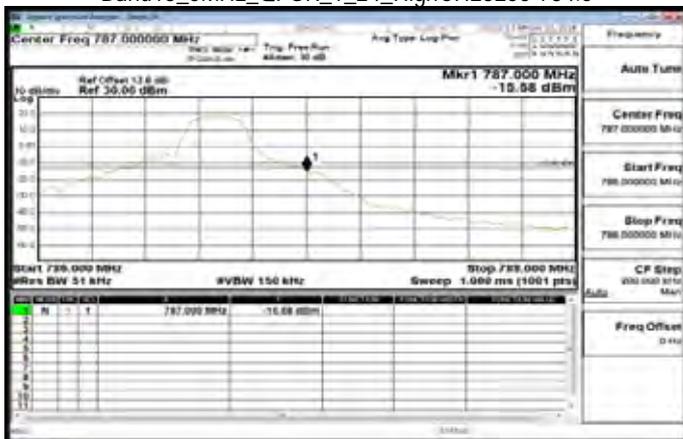
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Band13_5MHz_QPSK_25_0_HighCH23255-784.5



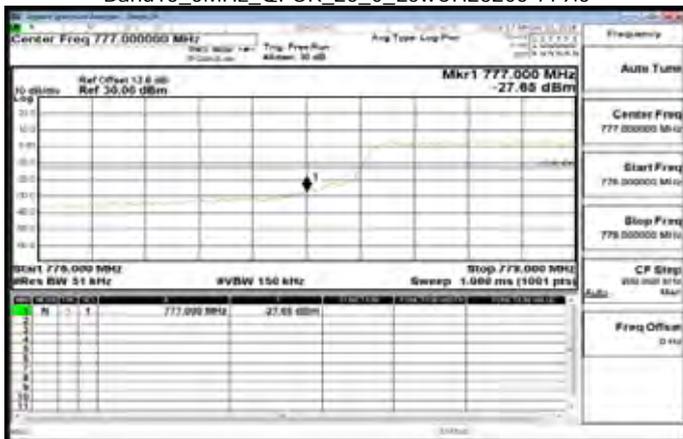
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Band13_10MHz_QPSK_1_0_LowCH23230-782



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Band13_10MHz_QPSK_1_49_HighCH23230-782



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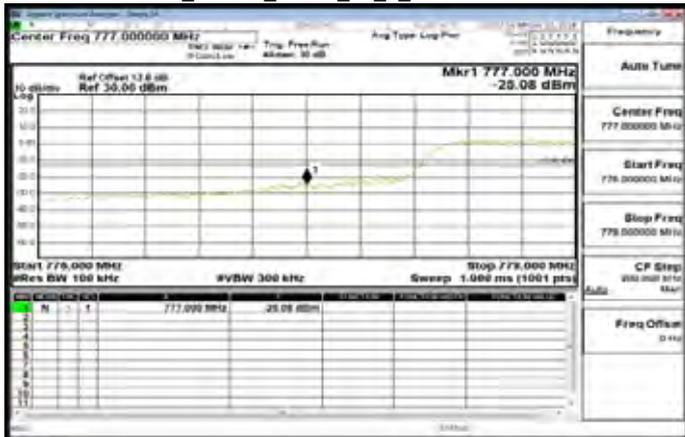
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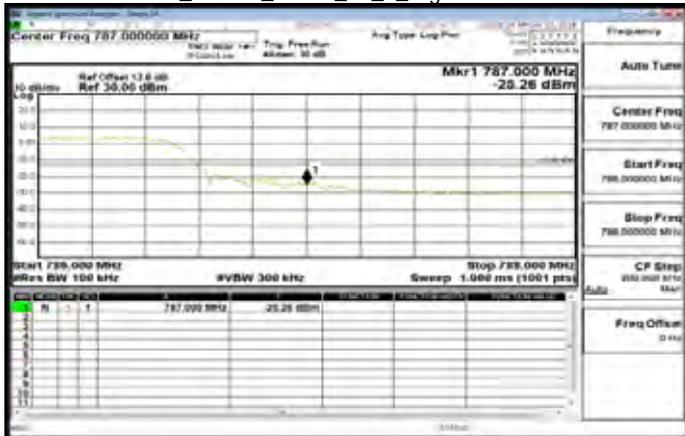
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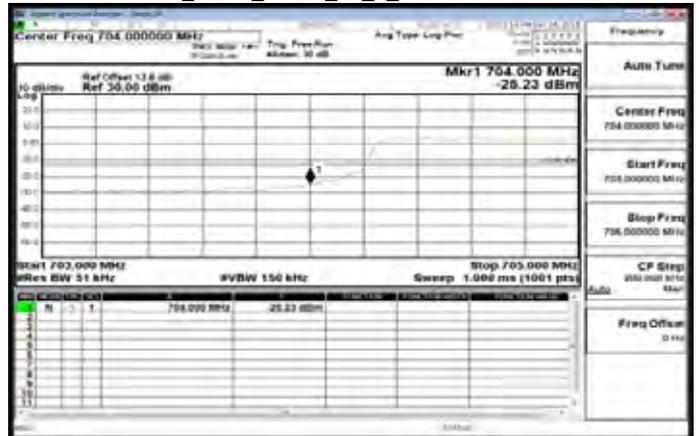
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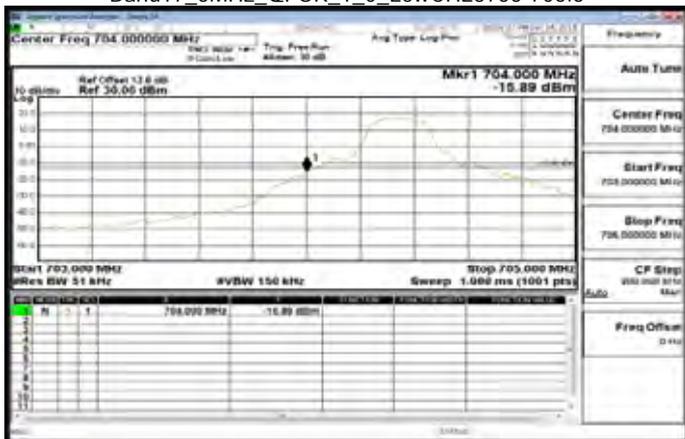
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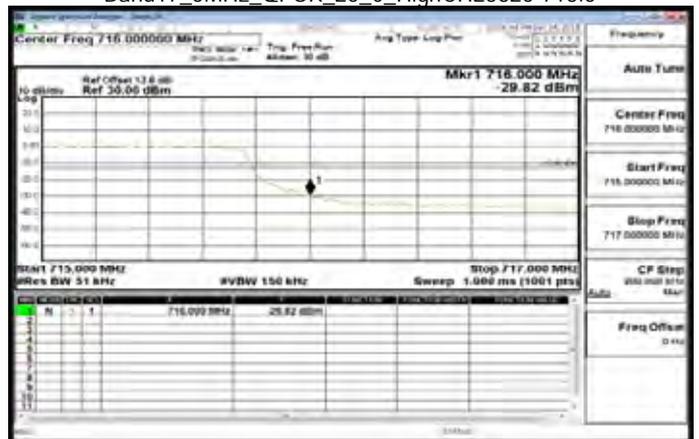
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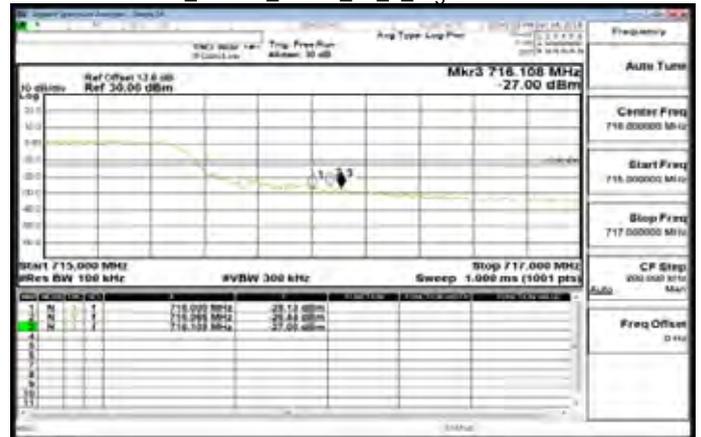
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Band17_10MHz_QPSK_1_0_LowCH23780-709



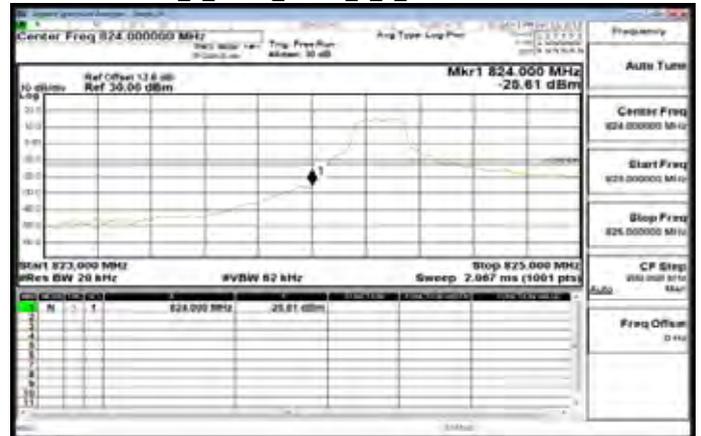
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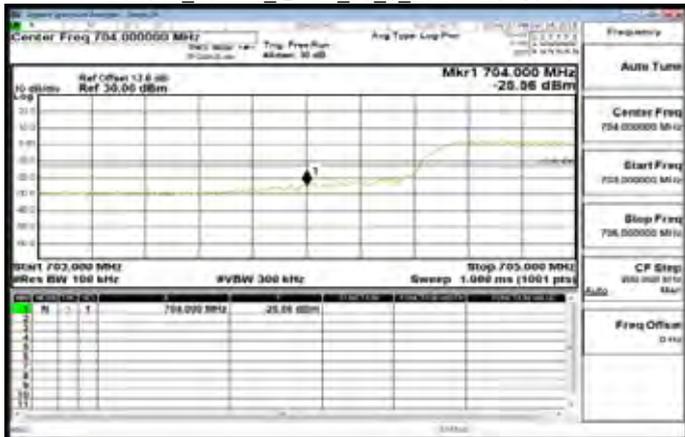
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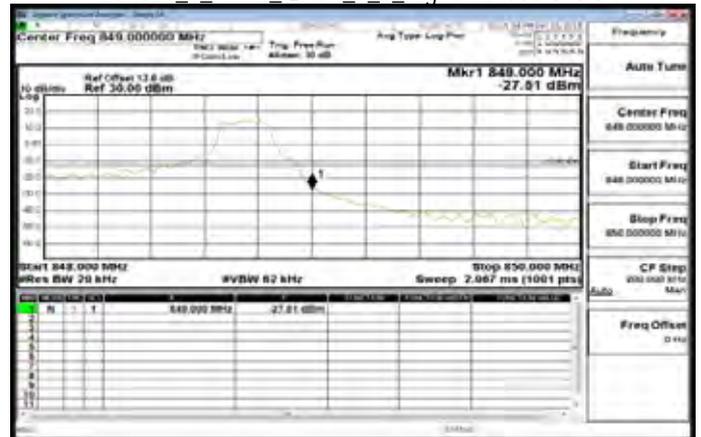
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Band17_10MHz_QPSK_50_0_LowCH23780-709



Band26_1_4MHz_QPSK_1_5_HighCH27033-848.3



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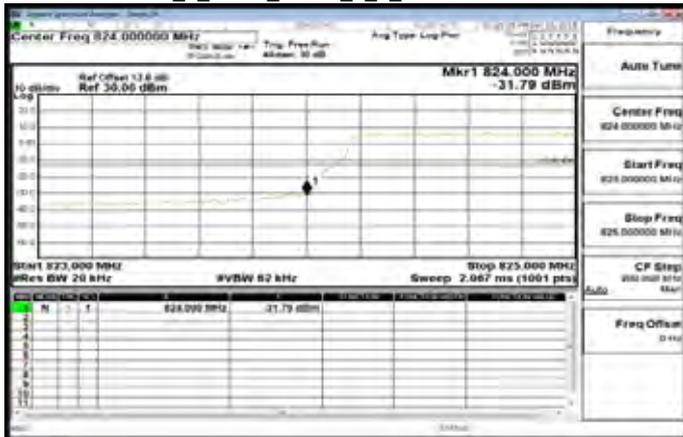
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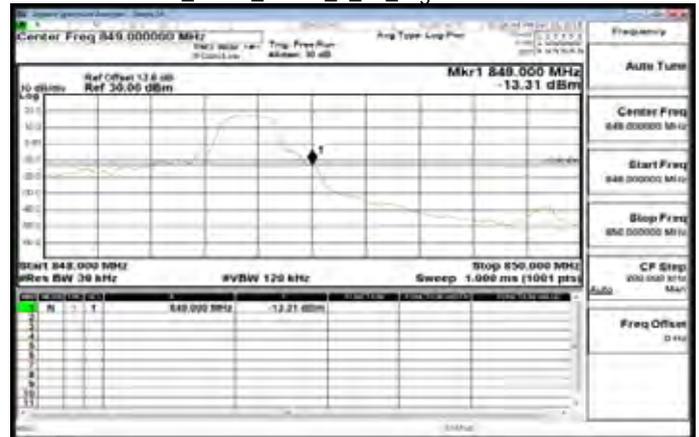
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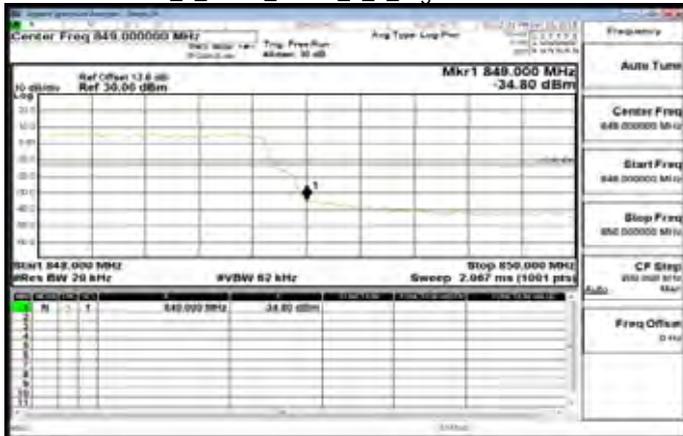
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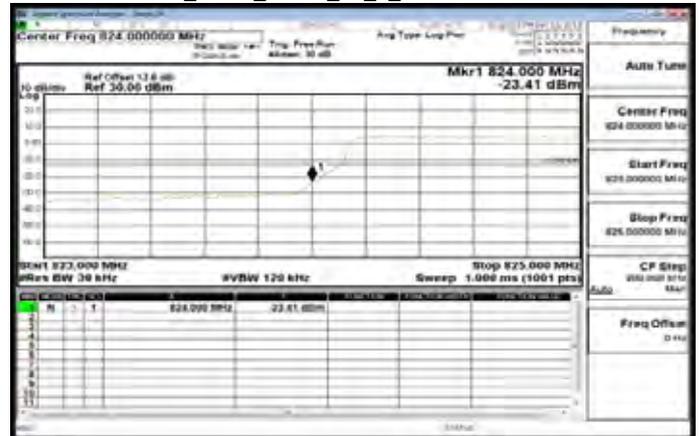
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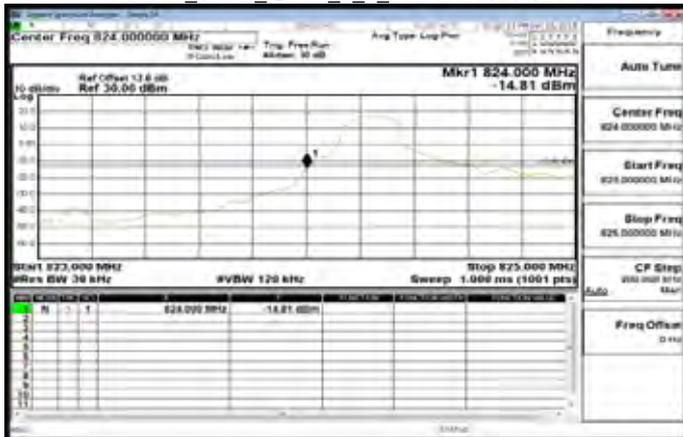
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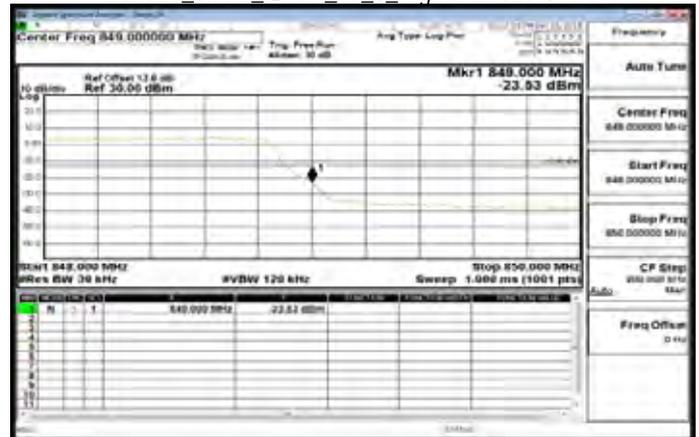
Band26_3MHz_QPSK_15_0_LowCH26805-825.5



Band26_3MHz_QPSK_1_0_LowCH26805-825.5



Band26_3MHz_QPSK_15_0_HighCH27025-847.5



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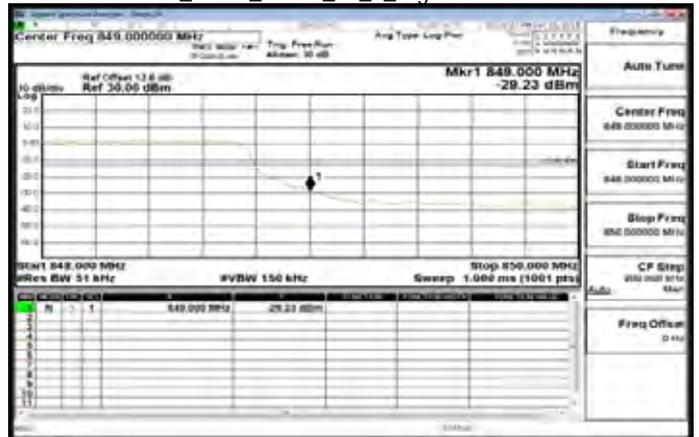
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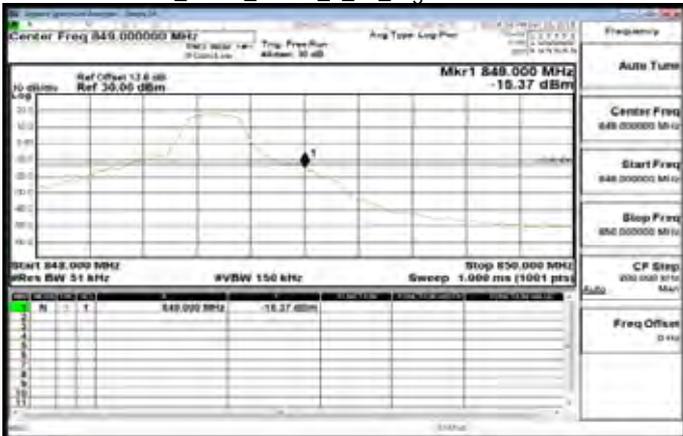
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Band26_5MHz_QPSK_25_0_HighCH27015-846.5



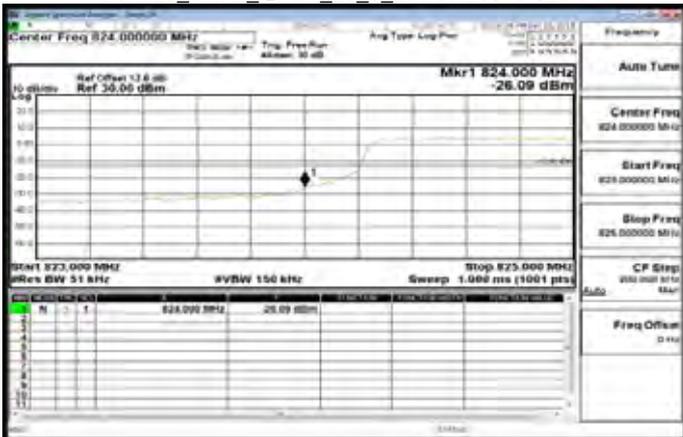
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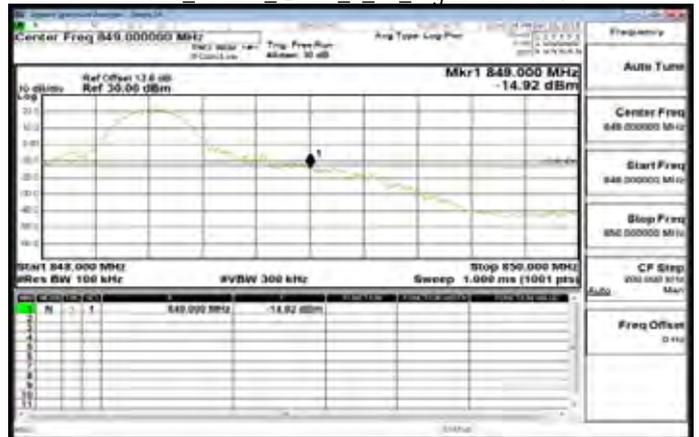
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Band26_5MHz_QPSK_25_0_LowCH26815-826.5



Band26_10MHz_QPSK_1_49_HighCH26990-844



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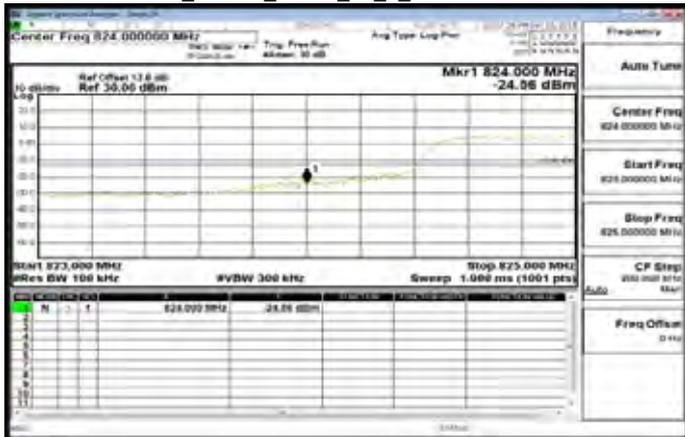
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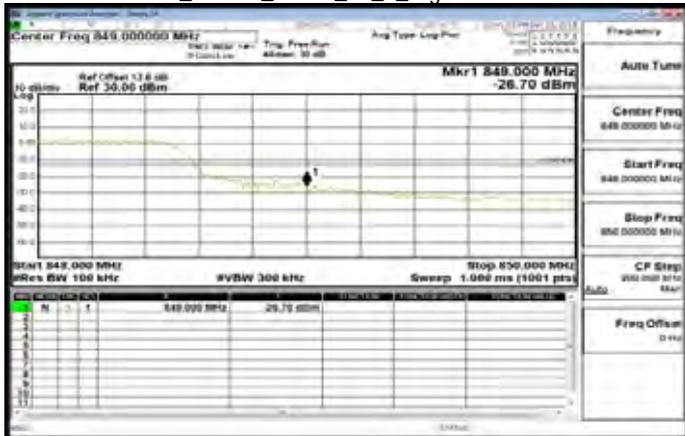
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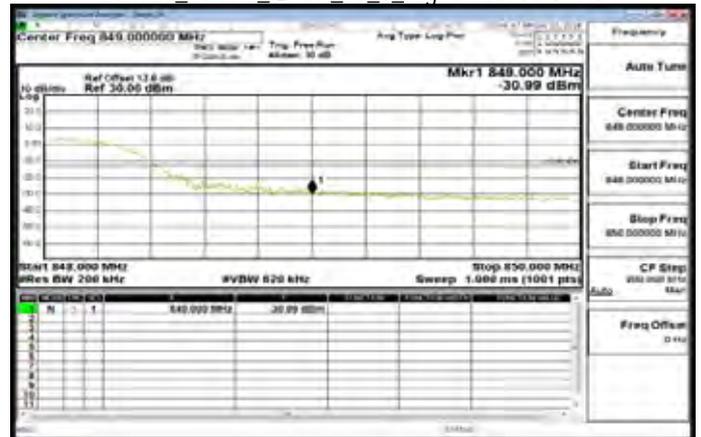
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Band26_15MHz_QPSK_75_0_HighCH26965-841.5



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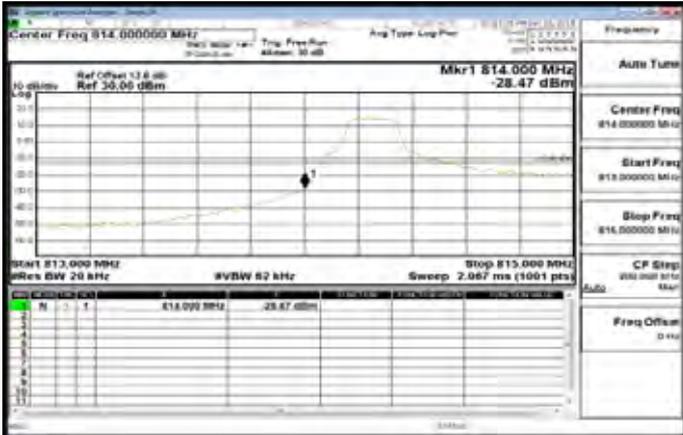
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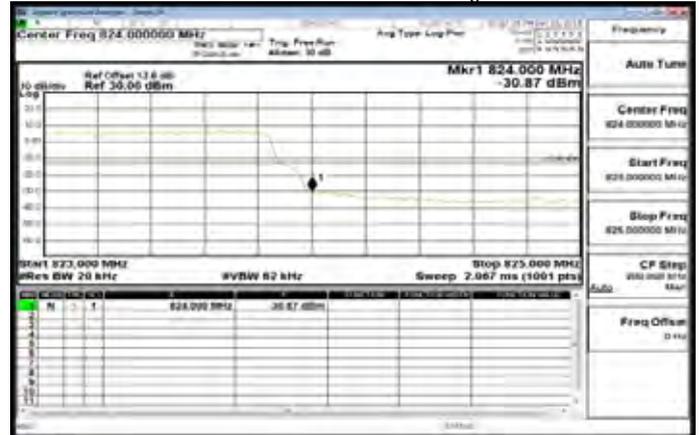
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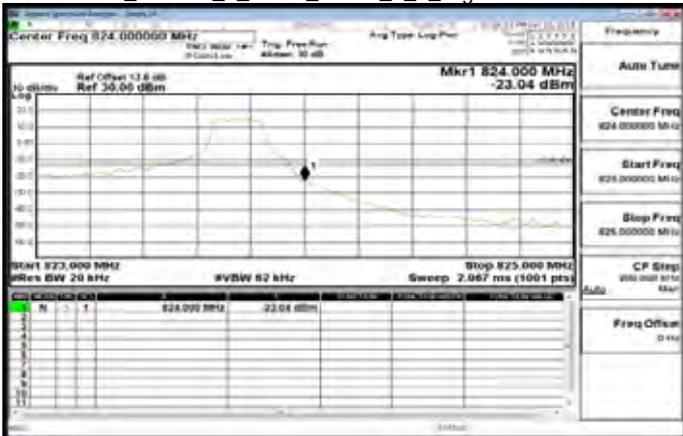
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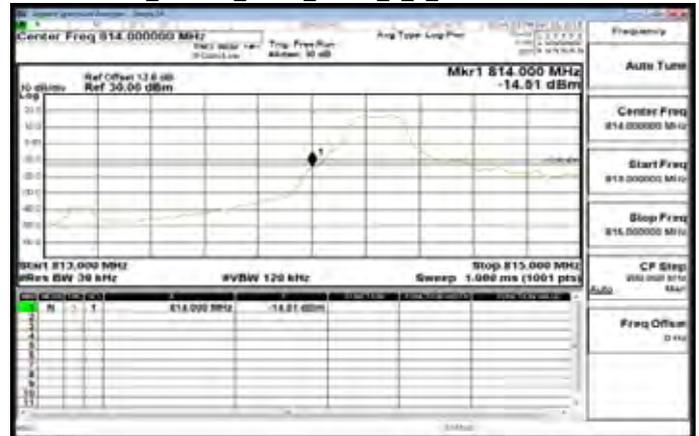
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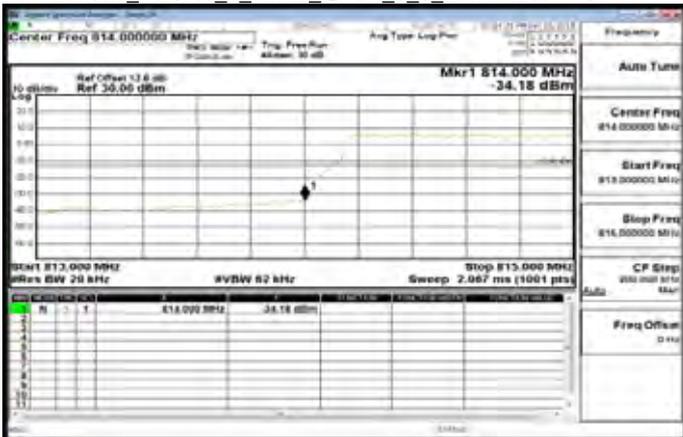
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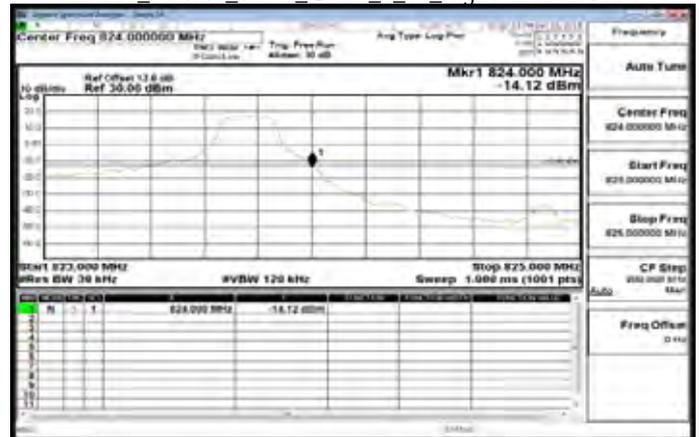
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Band26_Part90s_3MHz_QPSK_1_14_HighCH26775-822.5



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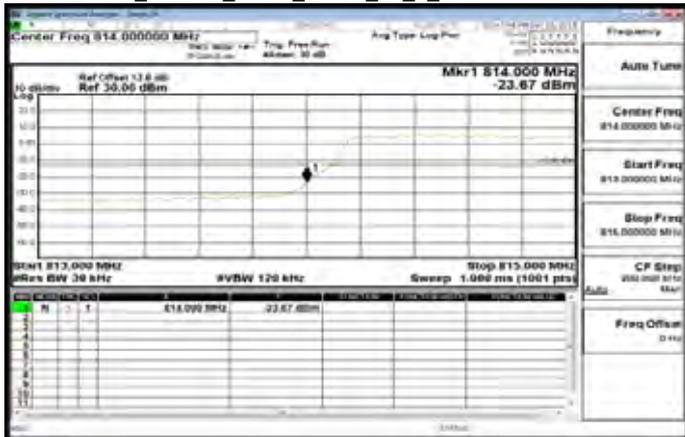
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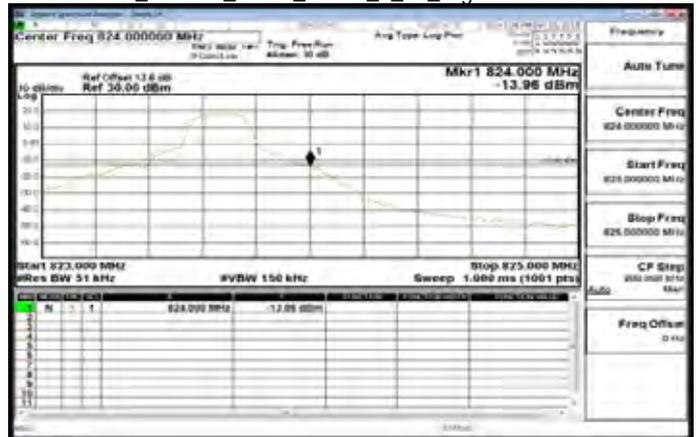
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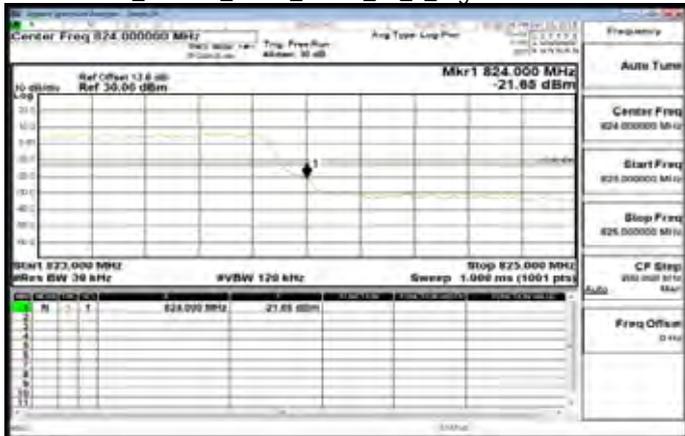
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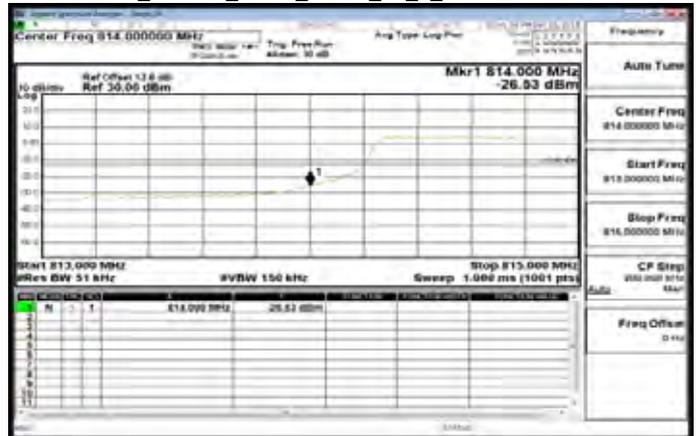
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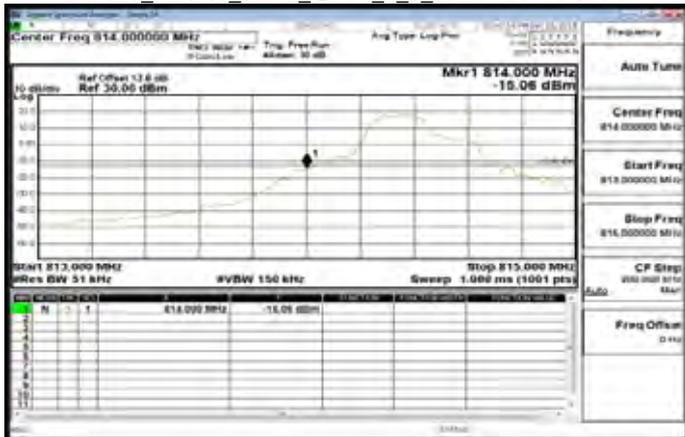
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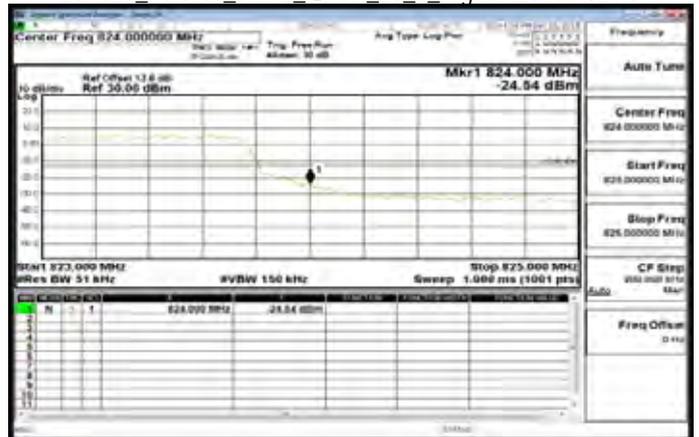
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Band26_Part90s_5MHz_QPSK_25_0_HighCH26765-821.5



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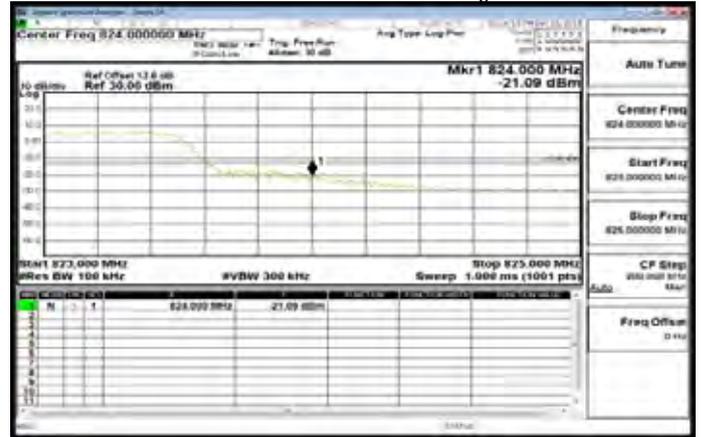
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Band26_Part90s_10MHz_QPSK_1_0_LowCH26740-819



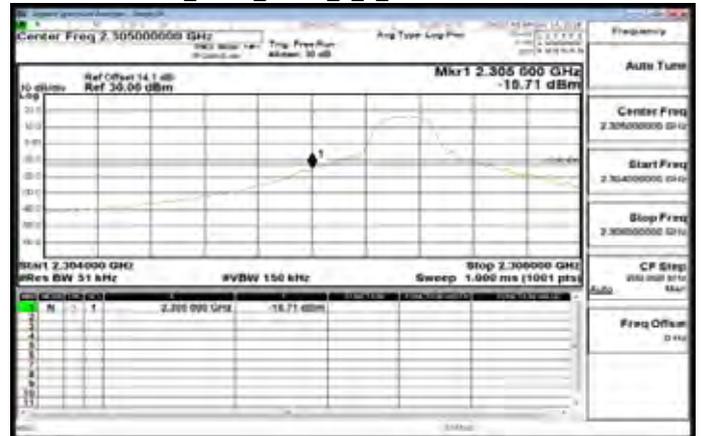
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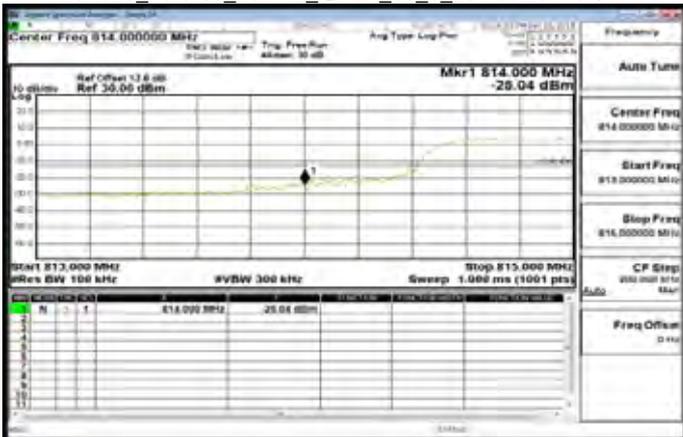
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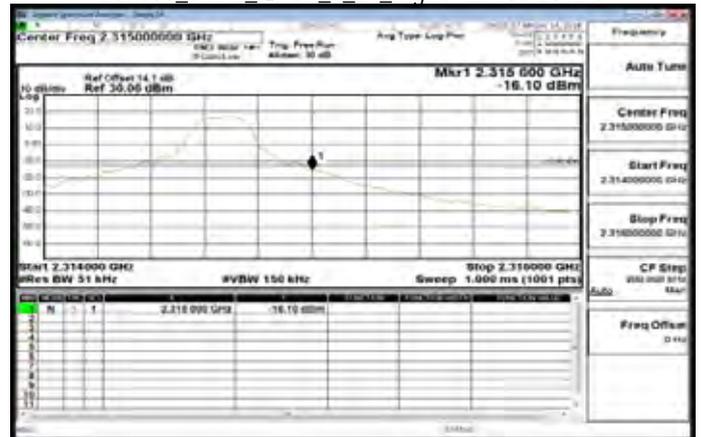
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