

FCC Test Report

Product Name : Sub6 5G module
Brand Name : WNC
Model No. : IMQC
FCC ID : NKRIMQC

Applicant : Wistron NeWeb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park,
Hsinchu 308, Taiwan

Date of Receipt : Oct. 07, 2021
Issued Date : Mar. 23, 2022
Report No. : 21A0144R-RFUSWWAV02-A
Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

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Test Report Certification



Product Name : Sub6 5G module
Applicant : Wistron NeWeb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308,
Taiwan
Manufacturer : Wistron NeWeb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308,
Taiwan
Brand Name : WNC
Model No. : IMQC
FCC ID : NKRIMQC
EUT Voltage : DC 3.3 ~ 4.3V
Testing Voltage : DC 3.8V
Applicable Standard : FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart D, Subpart F, Subpart L
FCC CFR Title 47 Part 90 Subpart R
ANSI/TIA-603-E
Test Lab : Hsin Chu Laboratory
Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
County 310, Taiwan, R.O.C.
TEL: +886-3-582-8001 / FAX: +886-3-582-8958
Test Result : Complied

Documented By :



(Amelia Wu / Project Specialist)

Approved By :



(Louis Hsu / Deputy Manager)

The test results relate only to the samples tested.

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Revision History

Version	Description	Issued Date
V1.0	Initial issue of report	Mar. 23, 2022

TABLE OF CONTENTS

Description	Page
1. General Information	6
1.1. EUT Description.....	6
1.2. Mode of Operation	8
1.3. Comments and Remarks	8
1.4. Tested System Details	9
1.5. Configuration of Tested System	9
1.6. EUT Operation of during Test	9
2. Technical Test	10
2.1. Summary of Test Result.....	10
2.2. Test Environment.....	14
2.3. List of Test Equipment	16
2.4. Measurement Uncertainty.....	17
3. RF Output Power	18
3.1. Test Setup.....	18
3.2. Test Procedure	18
3.3. Test Methodology and Reference Procedures	18
3.4. Test Result of RF Output Power	19
4. Occupied Bandwidth.....	32
4.1. Test Setup.....	32
4.2. Test Procedure	32
4.3. Test Methodology and Reference Procedures	32
4.4. Test Result of Occupied Bandwidth	33
5. Peak to Average Ratio	92
5.1. Test Setup.....	92
5.2. Test Procedure	92
5.3. Test Methodology and Reference Procedures	92
5.4. Test Result of Peak to Average Ratio	93
6. Spurious Emissions	142
6.1. Test Setup.....	142
6.2. Test Procedure	143
6.3. Test Methodology and Reference Procedures	143
6.4. Test Result of Conducted Spurious Emission	144
6.5. Test Result of Radiated Spurious Emission	171
7. Conducted Band Edge.....	183

7.1. Test Setup.....	183
7.2. Test Procedure	183
7.3. Test Methodology and Reference Procedures.....	183
7.4. Test Result of Conducted Band Edge	184
8. Frequency Stability	203
8.1. Test Setup.....	203
8.2. Test Procedure	203
8.3. Test Methodology and Reference Procedures.....	203
8.4. Test Result of Frequency Stability.....	204
Appendix A.....	228
☐ Test Setup Photograph	228

1. General Information

1.1. EUT Description

Product Name	Sub6 5G module
Brand Name	WNC
Model No.	IMQC
Uplink Frequency Range (MHz)	LTE Band 2: 1850~1910 LTE Band 5: 824~849 LTE Band 12: 699~716 LTE Band 14: 788~798 LTE Band 29: N/A LTE Band 30: 2305~2315 LTE Band 66: 1710~1780
Downlink Frequency Range (MHz)	LTE Band 2: 1930~1990 LTE Band 5: 869~894 LTE Band 12: 729~746 LTE Band 14: 758~768 LTE Band 29: 717~728 LTE Band 30: 2350~2360 LTE Band 66: 2110~2200
Bandwidth (MHz)	LTE Band 2: 1.4 / 3 / 5 / 10 / 15 / 20 LTE Band 5: 1.4 / 3 / 5 / 10 LTE Band 12: 1.4 / 3 / 5 / 10 LTE Band 14: 5 / 10 LTE Band 29: N/A LTE Band 30: 5 / 10 LTE Band 66: 1.4 / 3 / 5 / 10 / 15 / 20
CA Band	5B
Type of Modulation	QPSK / 16QAM / 64QAM / 256QAM
Hardware Version	V2.2
Software Version	V19
IMEI No.	016069000000920

WWAN Antenna Information

Brand	Model	Type	Antenna Gain (dBi)												
			LTE							5G NR					
			Band 2	Band 5	Band 12	Band 14	Band 29	Band 30	Band 66	n2	n5	n12	n30	n66	n77
WNC	IMQC	Dipole	3.87	4.41	3.10	3.10	RX only	0.50	3.91	3.87	4.41	3.10	0.50	3.91	3.50

Band	ANT0		ANT1		ANT2	ANT3	ANT4	ANT5	ANT6	ANT7
	TX0	RX0	TX1	RX1	RX2	RX3	RX4	RX5	RX6	RX7
LTE Band 29	-	v	-	v	-	-	-	-	-	-
LTE Band 12	v	v	-	v	-	-	-	-	-	-
LTE Band 14	v	v	-	v	-	-	-	-	-	-
LTE Band 5	v	v	-	v	-	-	-	-	-	-
LTE Band 66	v	v	v	v	v	v	v	-	-	-
LTE Band 2	v	v	v	v	v	v	v	-	-	-
LTE Band 30	-	-	v	v	v	v	v	-	-	-
5G NR n12	v	v	-	v	-	-	-	-	-	-
5G NR n5	v	v	-	v	-	-	-	-	-	-
5G NR n66	v	v	v	v	v	v	v	-	-	-
5G NR n2	v	v	v	v	v	v	v	-	-	-
5G NR n30	-	-	v	v	v	v	v	-	-	-
5G NR n77	v	v	v	v	v	v	v	v	v	v

1. LTE Band 66 works on ANT1, ANT2, ANT3 and ANT4. But, LTE Band 66 TX/RX works on ANT0 instead of ANT4 as the CA ENDC combos include LTE Band 2/LTE Band 66 transmit simultaneously or LTE Band 30/LTE Band 66 transmit simultaneously or LTE Band 66/5G NR n30 transmit simultaneously.
2. LTE Band 2 works on ANT1, ANT2, ANT3 and ANT4. But, LTE Band 2 TX/RX works on ANT0 instead of ANT4 as the CA ENDC combos include LTE Band 2/LTE Band 30 transmit simultaneously or LTE Band 2/5G NR n30 transmit simultaneously.
3. 5G NR n66 works on ANT1, ANT2, ANT3 and ANT4. But, 5G NR n66 TX/RX works on ANT0 instead of ANT4 as the CA ENDC combos include 5G NR n2/5G NR n66 transmit simultaneously or LTE Band 2/5G NR n66 transmit simultaneously or LTE Band 30/5G NR n66 transmit simultaneously or 5G NR n30/5G NR n66 transmit simultaneously.
4. 5G NR n2 works on ANT1, ANT2, ANT3 and ANT4. But, 5G NR n2 TX/RX works on ANT0 instead of ANT4 as the CA ENDC combos include LTE Band 66/5G NR n2 transmit simultaneously or LTE Band 30/5G NR n2 transmit simultaneously.
5. 5G NR n77 supports 1TX (ANT0) only in NSA mode.
5G NR n77 supports 2TX only in SA mode.
6. 5G NR n77 supports 8RX. (ANT0~ANT7).

Note:

1. Regarding frequency band operation, the lowest, middle and highest frequency of channel were selected to perform the test, and the details were shown on this report.
2. The EUT description is from the customer declaration.
3. The device was tested under all bandwidths, RB configurations and modulations, and the worst case was found in QPSK modulation and show in "Conducted Band Edge" & "Spurious Emission".
4. The device supports Intra-Band Carrier Aggregation modes in LTE band 5. And the test result of CA 5B is recorded in this report.

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode	Mode 1: LTE Band 2
	Mode 2: LTE Band 5
	Mode 3: LTE Band 12
	Mode 4: LTE Band 14
	Mode 5: LTE Band 30
	Mode 6: LTE Band 66
	Mode 7: LTE CA Band 5B

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.3. Comments and Remarks

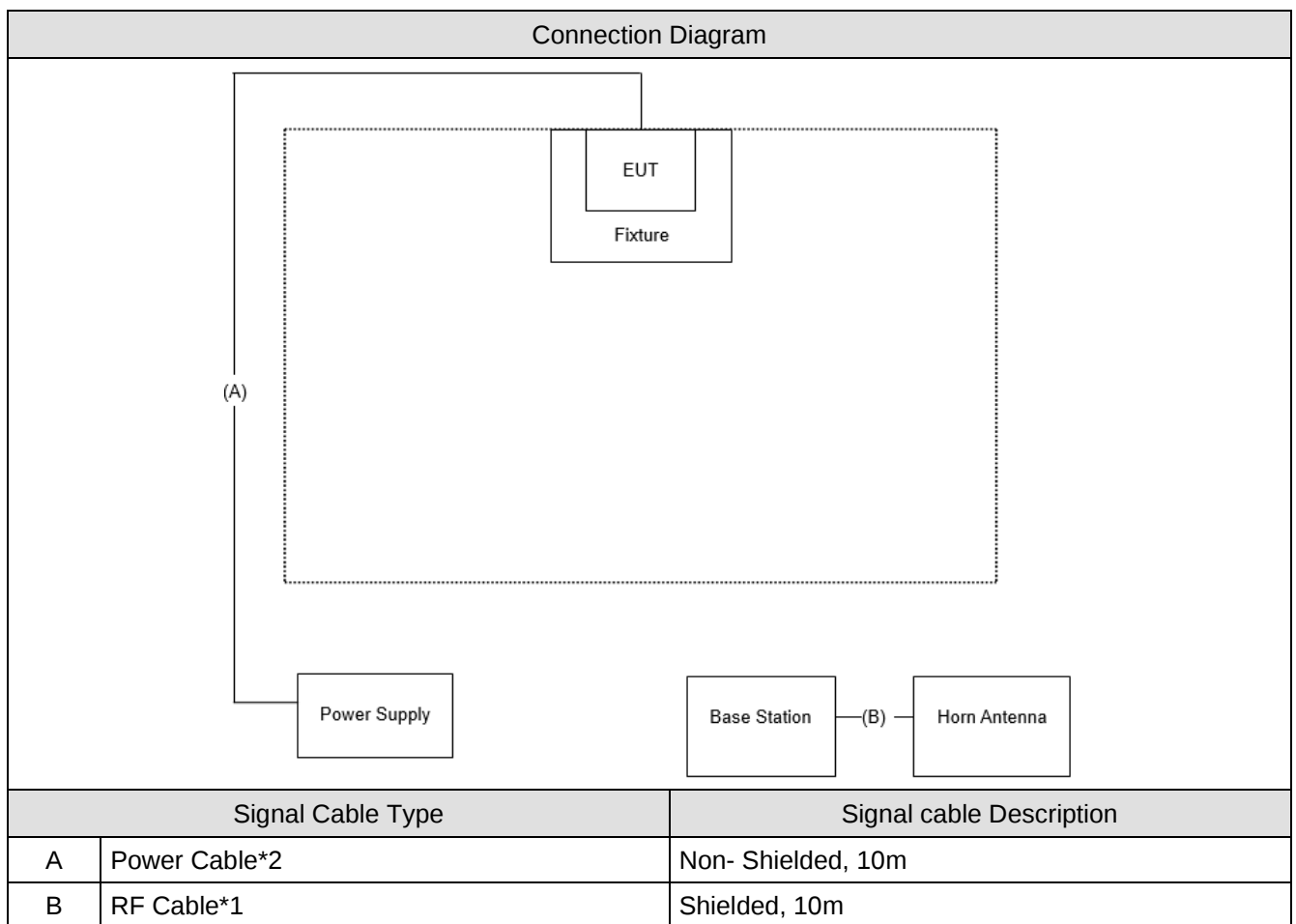
The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.4. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system.

	Product	Manufacturer	Model No.	Serial No.
1	Power Supply	Topward	6303D	8095908
2	Base Station	Anritsu	MT8821	62619115489
3	Horn Antenna	Schwarzbeck	BBHA 9120D	1640
4	Fixture	WNC	IMQC	N/A

1.5. Configuration of Tested System



1.6. EUT Operation of during Test

1	Set the EUT as shown.
2	EUT is connected through the base station
3	Configure test mode, test channel and data rate.
4	Let the EUT start sending or receiving continuously.
5	Verify that the device is working properly.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
☐ Deviations from the test standards as below description:

LTE Band 2			
FCC Part 24 Subpart E			
Performed Item	FCC Reference Section	Limit	Result
RF Output Power	§2.1033	< 2 Watts	Pass
	§2.1046		
	§24.232		
Occupied Bandwidth	§2.1049	N/A	Pass
Peak to Average Ratio	§24.232(d)	≤ 13 dB	Pass
Conducted Band Edge	§27.238	< -13 dBm	Pass
Spurious Emission	§2.1053	< -13 dBm	Pass
	§24.238		
Frequency Stability	§2.1055	± 2.5 ppm	Pass
	§24.235		

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

LTE Band 5			
FCC Part 22 Subpart H			
Performed Item	FCC Reference Section	Limit	Result
RF Output Power	§2.1033	< 7 Watts	Pass
	§2.1046		
	§22.913		
Occupied Bandwidth	§2.1049	N/A	Pass
Peak to Average Ratio	§22.913	≤ 13 dB	Pass
Conducted Band Edge	§2.1053	< -13 dBm	Pass
	§22.917		
Spurious Emission	§22.917	< -13 dBm	Pass
Frequency Stability	§2.1055	± 2.5 ppm	Pass
	§22.335		

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

LTE Band 12			
FCC Part 27 Subpart F			
Performed Item	FCC Reference Section	Limit	Result
RF Output Power	§2.1033	< 3 Watts ERP	Pass
	§2.1046		
	§27.50		
Occupied Bandwidth	§2.1049	N/A	Pass
Peak to Average Ratio	§27.50	< 13 dB	Pass
Conducted Band Edge	§2.1053	< -13 dBm	Pass
	§27.53		
Spurious Emission	§27.53	< -13 dBm	Pass
Frequency Stability	§2.1055	± 2.5 ppm	Pass
	§27.54		

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

LTE Band 14			
FCC Part 90 Subpart R			
Performed Item	FCC Reference Section	Limit	Result
RF Output Power	§2.1033	< 3 Watts ERP	Pass
	§2.1046		
	§90.542		
Occupied Bandwidth	§2.1049	N/A	Pass
Peak to Average Ratio	§27.50	< 13 dB	Pass
Conducted Band Edge	§2.1053	< -35 dBm	Pass
	§90.543	< -35 dBm (769-775 MHz & 799-805 MHz)	
Spurious Emission	§90.543	< -13 dBm < -70 dBW/MHz e.i.r.p. of all emissions, including harmonics in the band 1559-1610 MHz	Pass
Frequency Stability	§2.1055 §90.543	± 2.5 ppm	Pass

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

LTE Band 30			
FCC Part 27 Subpart D			
Performed Item	FCC Reference Section	Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	< 250 mW within any 5 MHz bandwidth in average value EIRP: < 50 mW within any 1 MHz bandwidth in average value	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak to Average Ratio	§27.50	< 13 dB	Pass
Conducted Band Edge	§2.1053 §27.53	< -40 dBm	Pass
Spurious Emission	§27.53	< -40 dBm	Pass
Frequency Stability	§2.1055 §27.54	± 2.5 ppm	Pass

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

LTE Band 66			
FCC Part 27 Subpart L			
Performed Item	FCC Reference Section	Limit	Result
RF Output Power	§2.1033 §2.1046 §27.50	< 1 Watts	Pass
Occupied Bandwidth	§2.1049	N/A	Pass
Peak to Average Ratio	§27.50	< 13 dB	Pass
Conducted Band Edge	§2.1053 §27.53	< -13 dBm	Pass
Spurious Emission	§27.53	< -13 dBm	Pass
Frequency Stability	§2.1055 §27.54	± 2.5 ppm	Pass

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

LTE CA Band 5B			
FCC Part 22 Subpart H			
Performed Item	FCC Reference Section	Limit	Result
RF Output Power	§2.1033	< 7 Watts	Pass
	§2.1046		
	§22.913		
Occupied Bandwidth	§2.1049	N/A	Pass
Peak to Average Ratio	§22.913	≤ 13 dB	Pass
Conducted Band Edge	§2.1053	< -13 dBm	Pass
	§22.917		
Spurious Emission	§22.917	< -13 dBm	Pass
Frequency Stability	§2.1055	± 2.5 ppm	Pass
	§22.335		

Note: Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.2. Test Environment

Ambient conditions in the laboratory:

Items	Test Item	Actually	Tested by	Test Date	Test Site
Temperature (°C)	RF Output Power	21	Getaz Yang	2022/1/18	SR12-H
Humidity (%RH)		62			
Temperature (°C)	Occupied Bandwidth	23	Max Chang	2021/12/22	SR12-H
Humidity (%RH)		61			
Temperature (°C)	Peak to Average Ratio	21	Max Chang	2021/12/28 ~ 2022/01/21	SR12-H
Humidity (%RH)		58 ~ 61			
Temperature (°C)	Conducted Band Edge	21 ~ 22	Max Chang	2021/12/23 ~ 2022/01/21	SR12-H
Humidity (%RH)		58 ~ 62			
Temperature (°C)	Conducted Spurious Emission	23	Max Chang	2021/12/24 ~ 2022/01/22	SR12-H
Humidity (%RH)		60			
Temperature (°C)	Radiated Spurious Emission	23	Gray Liao	2021/2/23 ~ 2022/01/20	CB4-H
Humidity (%RH)		61			
Temperature (°C)	Frequency Stability	20	Max Chang	2021/12/27	SR12-H
Humidity (%RH)		60			

Note: Test site information refers to Laboratory Information.

Laboratory Information**USA : FCC Registration Number: TW3024****Canada CAB identifier : TW3024**

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
Address	1. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C.
Phone number	1. +886-3-582-8001 2. +886-3-582-8001
Fax number	1. +886-3-582-8958 2. +886-3-582-8958
E mail address	info.tw@dekra.com
Website	http://www.dekra.com.tw
Note: Test site for address 1 includes SR2-H. Test site for address 2 includes CB2-H, CB3-H, CB4-H, SR10-H and SR12-H.	

2.3. List of Test Equipment

SR12-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
High Speed Peak Power Meter Dual Input	Anritsu	ML2496A	1602004	2021/11/12	2022/11/11
Pulse Power Sensor	Anritsu	MA2411B	1531043	2021/11/12	2022/11/11
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2022/01/07	2023/01/06
Pulse Power Sensor	Anritsu	MA2411B	1531044	2021/11/12	2022/11/11
Power Meter	Keysight	8990B	MY51000248	2021/05/21	2022/05/20
Power Sensor	Keysight	N1923A	MY57240005	2021/05/21	2022/05/20
Spectrum Analyzer	Keysight	N9030B	MY57140404	2021/05/14	2022/05/13
Spectrum Analyzer	Keysight	N9010B	MY57110159	2021/03/29	2022/03/28
Radio Communication Tester	Anritsu	MT8821C	6261915489	2021/11/26	2022/11/25
Spectrum Analyzer	Agilent	N9010A	US47140172	2021/05/28	2022/05/27
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30

CB4-H

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
Signal Analyzer	R&S	FSVA40	101455	2021/10/22	2022/10/21
Signal & Spectrum Analyzer	R&S	FSV40	101049	2021/03/31	2022/03/30
Signal Analyzer	R&S	FSVA40	101435	2021/06/04	2022/06/03
EXA Signal Analyzer	Keysight	N9010A	MY51440132	2022/01/07	2023/01/06
Trilog Broadband Antenna	Schwarzbeck	VULB 9168	1209	2021/05/28	2022/05/27
Horn Antenna	Schwarzbeck	BBHA 9120D	01640	2021/09/03	2022/09/02
Horn Antenna	Schwarzbeck	BBHA 9170	203	2021/03/11	2022/03/10
Pre-Amplifier	EMCI	EMC01820I	980364	2021/08/27	2022/08/26
Pre-Amplifier	EMEC	EM01G18GA	060835	2021/07/12	2022/07/11
Pre-Amplifier	DEKRA	AP-400C	201801231	2021/12/24	2022/12/23
Radio Communication Tester	Anritsu	MT8821C	6261915489	2021/11/26	2022/11/25
Coaxial Cable(10m)	Suhner	SF102_SF104	CB4-H	2021/08/09	2022/08/08
Coaxial Cable(3m)	Suhner,Rosnol	SF102_Rosnol	CB4-H	2021/08/17	2022/08/18
Radiated Software	AUDIX	e3 V9	CB4-H	N/A	N/A

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

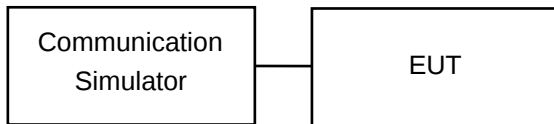
2.4. Measurement Uncertainty

Uncertainties have been calculated according to the DEKRA internal document with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Test Item	Uncertainty
RF Output Power	± 1.16 dB
Occupied Bandwidth	± 217.9 Hz
Peak to Average Ratio	± 1.16 dB
Conducted Band Edge	± 1.16 dB
Spurious Emissions	± 3.25 dB below 1 GHz ± 3.32 dB above 1 GHz
Frequency Stability	± 217.9 Hz

3. RF Output Power

3.1. Test Setup



3.2. Test Procedure

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum conducted RF output power under transmission mode and specific channel frequency. The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_T - L_C$$

where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas}, typically dBW or dBm);

P_{Meas} = measured transmitter output power or PSD, in dBm or dBW;

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

L_C = signal attenuation in the connecting cable between the transmitter and antenna, in dB

3.3. Test Methodology and Reference Procedures

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

3.4. Test Result of RF Output Power

Mode 1: LTE Band 2

Mode					Conducted Power				EIRP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	64-QAM EIRP(W)	256-QAM EIRP(W)	Limit EIRP(W)
1.4	18607	1850.7	1	0	22.49	21.67	20.69	18.01	0.433	0.358	0.286	0.154	2
				2	22.47	21.60	20.67	17.85	0.431	0.352	0.284	0.149	2
				5	22.36	21.50	20.45	17.77	0.420	0.344	0.270	0.146	2
			6	0	21.44	20.37	19.64	17.66	0.340	0.265	0.224	0.142	2
	18900	1880	1	0	22.57	21.78	20.55	17.81	0.441	0.367	0.277	0.147	2
				2	22.46	21.72	20.52	17.69	0.430	0.362	0.275	0.143	2
				5	22.39	21.69	20.33	17.67	0.423	0.360	0.263	0.143	2
			6	0	21.42	20.46	19.28	17.66	0.338	0.271	0.207	0.142	2
	19193	1909.3	1	0	22.54	21.69	20.87	17.80	0.438	0.360	0.298	0.147	2
				2	22.47	21.61	20.75	17.71	0.431	0.353	0.290	0.144	2
				5	22.40	21.58	20.37	17.55	0.424	0.351	0.265	0.139	2
			6	0	21.43	20.54	19.72	17.51	0.339	0.276	0.229	0.137	2
3	18615	1851.5	1	0	22.55	21.63	20.76	17.77	0.439	0.355	0.290	0.146	2
				7	22.45	21.62	20.69	17.66	0.429	0.354	0.286	0.142	2
				14	22.37	21.56	20.42	17.59	0.421	0.349	0.269	0.140	2
			15	0	21.47	20.45	19.59	17.41	0.342	0.270	0.222	0.134	2
	18900	1880	1	0	22.60	21.70	20.69	17.78	0.444	0.361	0.286	0.146	2
				7	22.51	21.60	20.56	17.62	0.435	0.352	0.277	0.141	2
				14	22.46	21.58	20.39	17.52	0.430	0.351	0.267	0.138	2
			15	0	21.45	20.52	19.25	17.35	0.340	0.275	0.205	0.132	2
	19185	1908.5	1	0	22.50	21.69	20.89	17.81	0.434	0.360	0.299	0.147	2
				7	22.47	21.67	20.86	17.71	0.431	0.358	0.297	0.144	2
				14	22.43	21.66	20.35	17.58	0.427	0.357	0.264	0.140	2
			15	0	21.42	20.44	19.76	17.40	0.338	0.270	0.231	0.134	2

Note:

1. RF Output Power (W) EIRP = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power				EIRP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	64-QAM EIRP(W)	256-QAM EIRP(W)	Limit EIRP(W)
5	18625	1852.5	1	0	22.56	21.52	20.84	17.66	0.440	0.346	0.296	0.142	2
				12	22.48	21.49	20.75	17.53	0.432	0.344	0.290	0.138	2
				24	22.42	21.39	20.52	17.42	0.426	0.336	0.275	0.135	2
			25	0	21.60	20.60	19.66	17.33	0.352	0.280	0.225	0.132	2
	18900	1880	1	0	22.63	21.79	20.74	17.66	0.447	0.368	0.289	0.142	2
				12	22.52	21.69	20.59	17.53	0.436	0.360	0.279	0.138	2
				24	22.45	21.61	20.41	17.46	0.429	0.353	0.268	0.136	2
			25	0	21.49	20.58	19.34	17.32	0.344	0.279	0.209	0.132	2
	19175	1907.5	1	0	22.59	21.62	20.95	17.63	0.443	0.354	0.303	0.141	2
				12	22.54	21.57	20.92	17.55	0.438	0.350	0.301	0.139	2
				24	22.44	21.48	20.45	17.51	0.428	0.343	0.270	0.137	2
			25	0	21.49	20.53	19.86	17.31	0.344	0.275	0.236	0.131	2
10	18650	1855	1	0	22.55	21.61	20.93	17.62	0.439	0.353	0.302	0.141	2
				24	22.48	21.60	20.83	17.53	0.432	0.352	0.295	0.138	2
				49	22.37	21.55	20.62	17.49	0.421	0.348	0.281	0.137	2
			50	0	21.48	20.46	19.72	17.41	0.343	0.271	0.229	0.134	2
	18900	1880	1	0	22.53	21.71	20.77	17.61	0.437	0.361	0.291	0.141	2
				24	22.47	21.61	20.67	17.55	0.431	0.353	0.284	0.139	2
				49	22.37	21.57	20.44	17.51	0.421	0.350	0.270	0.137	2
			50	0	21.51	20.51	19.40	17.39	0.345	0.274	0.212	0.134	2
	19150	1905	1	0	22.47	21.61	21.03	17.88	0.431	0.353	0.309	0.150	2
				24	22.44	21.60	21.02	17.72	0.428	0.352	0.308	0.144	2
				49	22.42	21.50	20.49	17.66	0.426	0.344	0.273	0.142	2
			50	0	21.50	20.50	19.93	17.43	0.344	0.274	0.240	0.135	2

Note:

1. RF Output Power (W) EIRP = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power				EIRP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	64-QAM EIRP(W)	256-QAM EIRP(W)	Limit EIRP(W)
15	18675	1857.5	1	0	22.43	21.53	20.98	17.73	0.427	0.347	0.305	0.145	2
				37	22.33	21.44	20.93	17.66	0.417	0.340	0.302	0.142	2
				74	22.30	21.33	20.65	17.58	0.414	0.331	0.283	0.140	2
			75	0	21.38	20.39	19.82	17.48	0.335	0.267	0.234	0.136	2
	18900	1880	1	0	22.43	21.61	20.82	17.68	0.427	0.353	0.294	0.143	2
				37	22.33	21.51	20.72	17.56	0.417	0.345	0.288	0.139	2
				74	22.29	21.49	20.53	17.49	0.413	0.344	0.275	0.137	2
			75	0	21.35	20.37	19.48	17.35	0.333	0.265	0.216	0.132	2
	19125	1902.5	1	0	22.44	21.57	21.06	17.88	0.428	0.350	0.311	0.150	2
				37	22.35	21.49	21.06	17.76	0.419	0.344	0.311	0.146	2
				74	22.33	21.44	20.59	17.66	0.417	0.340	0.279	0.142	2
			75	0	21.29	20.32	19.94	17.51	0.328	0.262	0.240	0.137	2
20	18700	1860	1	0	22.33	21.48	21.02	17.81	0.417	0.343	0.308	0.147	2
				49	22.32	21.47	20.95	17.71	0.416	0.342	0.303	0.144	2
				99	22.31	21.33	20.69	17.66	0.415	0.331	0.286	0.142	2
			100	0	21.37	20.37	19.88	17.48	0.334	0.265	0.237	0.136	2
	18900	1880	1	0	22.64	21.80	20.89	17.65	0.448	0.369	0.299	0.142	2
				49	22.32	21.55	20.79	17.61	0.416	0.348	0.292	0.141	2
				99	22.28	21.34	20.61	17.55	0.412	0.332	0.281	0.139	2
			100	0	21.39	20.38	19.56	17.41	0.336	0.266	0.220	0.134	2
	19100	1900	1	0	22.36	21.55	21.15	18.11	0.420	0.348	0.318	0.158	2
				49	22.35	21.54	21.12	17.89	0.419	0.348	0.316	0.150	2
				99	22.28	21.49	20.66	17.75	0.412	0.344	0.284	0.145	2
			100	0	21.41	20.41	19.96	17.55	0.337	0.268	0.242	0.139	2

Note:

1. RF Output Power (W) EIRP = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 2: LTE Band 5

Mode					Conducted Power				ERP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	64-QAM ERP(W)	256-QAM ERP(W)	Limit ERP(W)
1.4	20407	824.7	1	0	22.79	21.91	21.20	18.33	0.320	0.261	0.222	0.115	7
				2	22.77	21.84	21.11	18.21	0.318	0.257	0.217	0.111	7
				5	22.70	21.75	20.92	18.12	0.313	0.252	0.208	0.109	7
			6	0	21.77	20.91	20.68	18.09	0.253	0.207	0.197	0.108	7
	20525	836.5	1	0	22.87	22.13	21.11	18.26	0.326	0.275	0.217	0.113	7
				2	22.84	22.05	20.97	18.18	0.324	0.270	0.210	0.111	7
				5	22.75	22.00	20.95	18.15	0.317	0.267	0.209	0.110	7
			6	0	21.87	20.83	20.51	18.11	0.259	0.204	0.189	0.109	7
	20643	848.3	1	0	22.93	22.06	21.11	18.33	0.330	0.270	0.217	0.115	7
				2	22.90	22.01	20.94	18.21	0.328	0.267	0.209	0.111	7
				5	22.88	21.91	20.89	18.15	0.327	0.261	0.207	0.110	7
			6	0	21.89	20.87	20.56	18.10	0.260	0.206	0.191	0.109	7
3	20415	825.5	1	0	22.11	22.10	21.22	18.36	0.274	0.273	0.223	0.115	7
				7	22.00	22.00	21.16	18.25	0.267	0.267	0.220	0.112	7
				14	21.98	21.92	21.03	18.18	0.265	0.262	0.213	0.111	7
			15	0	21.80	20.79	20.77	18.15	0.255	0.202	0.201	0.110	7
	20525	836.5	1	0	22.99	22.07	21.24	18.28	0.335	0.271	0.224	0.113	7
				7	22.89	22.04	21.08	18.21	0.327	0.269	0.216	0.111	7
				14	22.80	22.03	21.07	18.16	0.321	0.269	0.215	0.110	7
			15	0	21.83	20.84	20.52	18.11	0.256	0.204	0.190	0.109	7
	20635	847.5	1	0	23.01	22.11	21.15	18.23	0.337	0.274	0.219	0.112	7
				7	22.91	22.06	20.96	18.18	0.329	0.270	0.210	0.111	7
				14	22.88	21.95	20.99	18.15	0.327	0.264	0.211	0.110	7
			15	0	21.86	20.89	20.66	18.12	0.258	0.207	0.196	0.109	7

Note:

1. RF Output Power (W) ERP = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power				ERP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	64-QAM ERP(W)	256-QAM ERP(W)	Limit ERP(W)
5	20425	825.6	1	0	22.86	22.11	21.31	18.41	0.325	0.274	0.228	0.117	7
				12	22.83	22.01	21.19	18.28	0.323	0.267	0.221	0.113	7
				24	22.76	21.95	21.06	18.21	0.318	0.264	0.215	0.111	7
			25	0	21.82	20.80	20.84	18.18	0.256	0.202	0.204	0.111	7
	20525	836.5	1	0	23.01	22.16	21.27	18.31	0.337	0.277	0.225	0.114	7
				12	22.92	22.09	21.09	18.25	0.330	0.272	0.216	0.112	7
				24	22.88	21.98	21.14	18.22	0.327	0.265	0.219	0.112	7
			25	0	21.85	20.88	20.58	18.17	0.258	0.206	0.192	0.110	7
	20625	846.5	1	0	23.02	22.10	21.22	18.28	0.337	0.273	0.223	0.113	7
				12	22.98	22.06	21.04	18.21	0.334	0.270	0.214	0.111	7
				24	22.90	22.04	21.06	18.18	0.328	0.269	0.215	0.111	7
			25	0	21.91	20.93	20.73	18.10	0.261	0.208	0.199	0.109	7
10	20450	829	1	0	22.87	21.93	21.36	18.35	0.326	0.262	0.230	0.115	7
				24	22.86	21.92	21.23	18.27	0.325	0.262	0.223	0.113	7
				49	22.80	21.88	21.10	18.21	0.321	0.259	0.217	0.111	7
			50	0	21.86	20.86	20.85	18.13	0.258	0.205	0.205	0.109	7
	20525	836.5	1	0	22.90	22.04	21.34	18.37	0.328	0.269	0.229	0.116	7
				24	22.89	22.03	21.11	18.31	0.327	0.269	0.217	0.114	7
				49	22.97	22.13	21.16	18.25	0.333	0.275	0.220	0.112	7
			50	0	21.88	20.91	20.67	18.13	0.259	0.207	0.196	0.109	7
	20600	844	1	0	23.03	22.17	21.29	18.33	0.338	0.277	0.226	0.115	7
				24	22.93	22.11	21.14	18.24	0.330	0.274	0.219	0.112	7
				49	22.85	21.99	21.09	18.19	0.324	0.266	0.216	0.111	7
			50	0	22.07	21.05	20.78	18.13	0.271	0.214	0.201	0.109	7

Note:

1. RF Output Power (W) ERP = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 3: LTE Band 12

Mode					Conducted Power				ERP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	64-QAM ERP(W)	256-QAM ERP(W)	Limit ERP(W)
1.4	23017	699.7	1	0	23.00	22.17	21.07	18.59	0.248	0.205	0.159	0.090	3
				2	22.97	22.08	21.03	18.47	0.247	0.201	0.158	0.087	3
				5	22.94	22.04	20.99	18.37	0.245	0.199	0.156	0.086	3
			6	0	21.98	20.96	20.58	18.21	0.196	0.155	0.142	0.082	3
	23095	707.5	1	0	23.12	22.28	21.35	18.61	0.255	0.210	0.170	0.090	3
				2	23.04	22.21	21.28	18.52	0.251	0.207	0.167	0.089	3
				5	23.00	22.14	21.39	18.46	0.248	0.204	0.171	0.087	3
			6	0	21.98	20.97	20.25	18.35	0.196	0.156	0.132	0.085	3
	23173	715.3	1	0	22.95	21.91	21.51	18.74	0.245	0.193	0.176	0.093	3
				2	22.85	21.89	21.42	18.68	0.240	0.192	0.173	0.092	3
				5	22.84	21.84	21.35	18.57	0.239	0.190	0.170	0.090	3
			6	0	21.83	20.95	20.74	18.49	0.190	0.155	0.148	0.088	3
3	23025	700.5	1	0	23.05	22.27	21.10	18.64	0.251	0.210	0.160	0.091	3
				7	23.00	22.19	21.13	18.61	0.248	0.206	0.161	0.090	3
				14	22.94	22.16	21.08	18.51	0.245	0.205	0.160	0.088	3
			15	0	22.01	20.99	20.54	18.38	0.198	0.156	0.141	0.086	3
	23095	707.5	1	0	23.08	22.24	21.38	18.71	0.253	0.208	0.171	0.092	3
				7	23.04	22.20	21.38	18.66	0.251	0.207	0.171	0.091	3
				14	22.98	22.17	21.44	18.55	0.247	0.205	0.173	0.089	3
			15	0	21.94	20.94	20.24	18.33	0.195	0.155	0.132	0.085	3
	23165	714.5	1	0	22.92	22.11	21.53	18.66	0.244	0.202	0.177	0.091	3
				7	22.87	22.03	21.44	18.55	0.241	0.199	0.173	0.089	3
				14	22.81	21.99	21.37	18.51	0.238	0.197	0.171	0.088	3
			15	0	21.90	20.89	20.79	18.44	0.193	0.153	0.149	0.087	3

Note:

1. RF Output Power (W) ERP = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power				ERP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	64-QAM ERP(W)	256-QAM ERP(W)	Limit ERP(W)
5	23035	701.5	1	0	23.02	22.16	21.18	18.66	0.249	0.205	0.163	0.091	3
				12	23.01	22.15	21.18	18.55	0.249	0.204	0.163	0.089	3
				24	22.95	22.11	21.11	18.48	0.245	0.202	0.161	0.088	3
			25	0	21.95	20.96	20.63	18.33	0.195	0.155	0.144	0.085	3
	23095	707.5	1	0	23.11	22.24	21.47	18.63	0.255	0.208	0.175	0.091	3
				12	23.10	22.23	21.40	18.51	0.254	0.208	0.172	0.088	3
				24	23.01	22.14	21.46	18.45	0.249	0.204	0.174	0.087	3
			25	0	21.67	21.04	20.34	18.40	0.183	0.158	0.135	0.086	3
	23155	713.5	1	0	23.04	22.06	21.60	18.66	0.251	0.200	0.180	0.091	3
				12	22.95	22.03	21.51	18.57	0.245	0.199	0.176	0.090	3
				24	22.90	21.98	21.46	18.49	0.243	0.196	0.174	0.088	3
			25	0	21.94	20.86	20.85	18.41	0.195	0.152	0.151	0.086	3
10	23060	704	1	0	23.05	22.16	21.23	18.63	0.251	0.205	0.165	0.091	3
				24	23.04	22.15	21.19	18.55	0.251	0.204	0.164	0.089	3
				49	23.01	22.11	21.15	18.48	0.249	0.202	0.162	0.088	3
			50	0	22.04	21.04	20.66	18.41	0.199	0.158	0.145	0.086	3
	23095	707.5	1	0	23.13	22.29	21.57	18.71	0.256	0.211	0.179	0.092	3
				24	23.10	22.27	21.43	18.66	0.254	0.210	0.173	0.091	3
				49	23.00	22.21	21.48	18.61	0.248	0.207	0.175	0.090	3
			50	0	22.10	21.10	20.38	18.48	0.202	0.160	0.136	0.088	3
	23130	711	1	0	23.04	22.22	21.61	18.63	0.251	0.207	0.180	0.091	3
				24	23.03	22.21	21.55	18.53	0.250	0.207	0.178	0.089	3
				49	22.92	22.07	21.53	18.48	0.244	0.200	0.177	0.088	3
			50	0	22.11	21.10	20.94	18.41	0.202	0.160	0.155	0.086	3

Note:

1. RF Output Power (W) ERP = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 4: LTE Band 14

Mode					Conducted Power				ERP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	64-QAM ERP(W)	256-QAM ERP(W)	Limit ERP(W)
5	23305	790.5	1	0	22.90	22.03	20.98	18.39	0.243	0.199	0.156	0.086	3
				12	22.87	22.01	20.85	18.33	0.241	0.198	0.151	0.085	3
				24	22.77	21.93	20.77	18.21	0.236	0.194	0.149	0.082	3
			25	0	21.85	20.86	20.02	18.21	0.191	0.152	0.125	0.082	3
	23330	793	1	0	22.98	22.12	21.13	18.42	0.247	0.203	0.161	0.086	3
				12	22.89	22.06	21.35	18.26	0.242	0.200	0.170	0.083	3
				24	22.86	22.03	21.02	18.12	0.240	0.199	0.157	0.081	3
			25	0	21.75	20.73	20.42	18.06	0.186	0.147	0.137	0.080	3
	23355	795.5	1	0	22.92	21.94	21.06	18.61	0.244	0.195	0.159	0.090	3
				12	22.88	21.89	21.02	18.53	0.242	0.192	0.157	0.089	3
				24	22.83	21.79	20.94	18.45	0.239	0.188	0.155	0.087	3
			25	0	21.73	20.73	20.02	18.31	0.185	0.147	0.125	0.084	3
10	23330	793	1	0	22.99	22.13	21.22	18.55	0.248	0.203	0.165	0.089	3
				24	22.82	21.93	21.46	18.46	0.238	0.194	0.174	0.087	3
				49	22.71	21.83	21.13	18.36	0.232	0.190	0.161	0.085	3
			50	0	21.78	20.76	20.55	18.22	0.187	0.148	0.141	0.083	3

Note:

1. RF Output Power (W) ERP = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15dB
2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 5: LTE Band 30

Mode					Conducted Power				EIRP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	64-QAM EIRP(W)	256-QAM EIRP(W)	Limit EIRP(W)
5	27685	2307.5	1	0	22.47	21.64	20.67	17.75	0.198	0.164	0.131	0.067	0.25
				12	22.46	21.63	20.51	17.70	0.198	0.163	0.126	0.066	0.25
				24	22.39	21.56	20.66	17.66	0.195	0.161	0.131	0.065	0.25
			25	0	21.41	20.43	19.57	17.39	0.155	0.124	0.102	0.062	0.25
	27710	2310	1	0	22.54	21.64	20.72	17.79	0.201	0.164	0.132	0.067	0.25
				12	22.53	21.63	20.58	17.72	0.201	0.163	0.128	0.066	0.25
				24	22.41	21.52	20.72	17.67	0.195	0.159	0.132	0.066	0.25
			25	0	21.30	20.40	19.59	17.41	0.151	0.123	0.102	0.062	0.25
	27735	2312.5	1	0	22.51	21.69	20.70	17.81	0.200	0.166	0.132	0.068	0.25
				12	22.50	21.68	20.55	17.75	0.200	0.165	0.127	0.067	0.25
				24	22.38	21.63	20.71	17.69	0.194	0.163	0.132	0.066	0.25
			25	0	21.38	20.37	19.57	17.45	0.154	0.122	0.102	0.062	0.25
10	27710	2310	1	0	22.55	21.70	20.99	17.87	0.202	0.166	0.141	0.069	0.25
				24	22.52	21.59	20.65	17.75	0.200	0.162	0.130	0.067	0.25
				49	22.37	21.52	20.78	17.68	0.194	0.159	0.134	0.066	0.25
			50	0	21.35	20.35	19.77	17.38	0.153	0.122	0.106	0.061	0.25

Note:

1. RF Output Power (W) EIRP = Conducted Output Power (dBm) + Antenna Gain (dBi)
2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 6: LTE Band 66

Mode					Conducted Power				EIRP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	64-QAM EIRP(W)	256-QAM EIRP(W)	Limit EIRP(W)
1.4	131979	1710.7	1	0	22.67	21.78	20.62	17.69	0.455	0.371	0.284	0.145	1
				2	22.64	21.75	20.39	17.61	0.452	0.368	0.269	0.142	1
				5	22.56	21.59	20.32	17.55	0.444	0.355	0.265	0.140	1
			6	0	21.69	20.76	19.36	17.51	0.363	0.293	0.212	0.139	1
	132322	1745	1	0	22.33	21.47	20.66	17.88	0.421	0.345	0.286	0.151	1
				2	22.30	21.45	20.25	17.79	0.418	0.344	0.261	0.148	1
				5	22.23	21.36	20.29	17.72	0.411	0.337	0.263	0.146	1
			6	0	21.29	20.21	19.33	17.58	0.331	0.258	0.211	0.141	1
	132665	1779.3	1	0	22.27	21.45	20.49	17.81	0.415	0.344	0.275	0.149	1
				2	22.22	21.43	20.49	17.74	0.410	0.342	0.275	0.146	1
				5	22.10	21.32	20.37	17.68	0.399	0.333	0.268	0.144	1
			6	0	21.29	20.35	19.44	17.54	0.331	0.267	0.216	0.140	1
3	131987	1711.5	1	0	22.64	21.73	20.66	17.77	0.452	0.366	0.286	0.147	1
				7	22.59	21.71	20.46	17.65	0.447	0.365	0.274	0.143	1
				14	22.48	21.59	20.45	17.61	0.436	0.355	0.273	0.142	1
			15	0	21.60	20.65	19.37	17.48	0.356	0.286	0.213	0.138	1
	132322	1745	1	0	22.32	21.43	20.70	17.81	0.420	0.342	0.289	0.149	1
				7	22.31	21.37	20.33	17.72	0.419	0.337	0.265	0.146	1
				14	22.14	21.23	20.35	17.63	0.403	0.327	0.267	0.143	1
			15	0	21.31	20.32	19.32	17.53	0.333	0.265	0.210	0.139	1
	132657	1778.5	1	0	22.21	21.49	20.58	17.77	0.409	0.347	0.281	0.147	1
				7	22.17	21.47	20.52	17.71	0.406	0.345	0.277	0.145	1
				14	22.02	21.37	20.38	17.63	0.392	0.337	0.269	0.143	1
			15	0	21.25	20.24	19.49	17.52	0.328	0.260	0.219	0.139	1

Note:

1. RF Output Power (W) EIRP = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power				EIRP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	64-QAM EIRP(W)	256-QAM EIRP(W)	Limit EIRP(W)
5	131997	1712.5	1	0	22.67	21.86	20.72	17.67	0.455	0.378	0.290	0.144	1
				12	22.66	21.85	20.50	17.55	0.454	0.377	0.276	0.140	1
				24	22.57	21.69	20.48	17.51	0.445	0.363	0.275	0.139	1
			25	0	21.60	20.63	19.40	17.44	0.356	0.284	0.214	0.136	1
	132322	1745	1	0	22.36	21.52	20.76	17.69	0.424	0.349	0.293	0.145	1
				12	22.35	21.51	20.39	17.55	0.423	0.348	0.269	0.140	1
				24	22.25	21.33	20.37	17.51	0.413	0.334	0.268	0.139	1
			25	0	21.34	20.34	19.42	17.43	0.335	0.266	0.215	0.136	1
	132647	1777.5	1	0	22.36	21.33	20.63	17.73	0.424	0.334	0.284	0.146	1
				12	22.32	21.29	20.57	17.66	0.420	0.331	0.281	0.144	1
				24	22.22	21.15	20.46	17.54	0.410	0.321	0.274	0.140	1
			25	0	21.26	20.26	19.50	17.46	0.329	0.261	0.219	0.137	1
10	132022	1715	1	0	22.62	21.83	20.76	17.71	0.450	0.375	0.293	0.145	1
				24	22.56	21.80	20.56	17.63	0.444	0.372	0.280	0.143	1
				49	22.49	21.73	20.52	17.55	0.437	0.366	0.277	0.140	1
			50	0	21.61	20.59	19.41	17.46	0.356	0.282	0.215	0.137	1
	132322	1745	1	0	22.36	21.51	20.82	17.81	0.424	0.348	0.297	0.149	1
				24	22.35	21.46	20.49	17.69	0.423	0.344	0.275	0.145	1
				49	22.17	21.34	20.46	17.57	0.406	0.335	0.274	0.141	1
			50	0	21.35	20.37	19.45	17.46	0.336	0.268	0.217	0.137	1
	132622	1775	1	0	22.29	21.40	20.68	17.77	0.417	0.340	0.288	0.147	1
				24	22.27	21.37	20.67	17.68	0.415	0.337	0.287	0.144	1
				49	22.12	21.27	20.53	17.55	0.401	0.330	0.278	0.140	1
			50	0	21.37	20.39	19.56	17.41	0.337	0.269	0.222	0.136	1

Note:

1. RF Output Power (W) EIRP = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode					Conducted Power				EIRP Power				Limit
BW (MHz)	Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK EIRP(W)	16-QAM EIRP(W)	64-QAM EIRP(W)	256-QAM EIRP(W)	Limit EIRP(W)
15	132047	1717.5	1	0	22.43	21.64	20.77	17.68	0.431	0.359	0.294	0.144	1
				37	22.39	21.63	20.57	17.55	0.427	0.358	0.281	0.140	1
				74	22.23	21.54	20.57	17.48	0.411	0.351	0.281	0.138	1
			75	0	21.50	20.50	19.47	17.45	0.348	0.276	0.218	0.137	1
	132322	1745	1	0	22.17	21.35	20.90	17.81	0.406	0.336	0.303	0.149	1
				37	22.16	21.30	20.58	17.77	0.405	0.332	0.281	0.147	1
				74	22.06	21.18	20.53	17.68	0.395	0.323	0.278	0.144	1
			75	0	21.20	20.21	19.50	17.51	0.324	0.258	0.219	0.139	1
	132597	1772.5	1	0	22.11	21.30	20.77	17.83	0.400	0.332	0.294	0.149	1
				37	22.07	21.25	20.70	17.69	0.396	0.328	0.289	0.145	1
				74	21.94	21.18	20.55	17.61	0.385	0.323	0.279	0.142	1
			75	0	21.21	20.20	19.59	17.48	0.325	0.258	0.224	0.138	1
20	132072	1720	1	0	22.68	21.87	20.86	17.73	0.456	0.378	0.300	0.146	1
				49	22.47	21.67	20.61	17.62	0.435	0.361	0.283	0.142	1
				99	22.34	21.64	20.63	17.53	0.422	0.359	0.284	0.139	1
			100	0	21.49	20.48	19.55	17.44	0.347	0.275	0.222	0.136	1
	132322	1745	1	0	22.21	21.44	20.98	17.83	0.409	0.343	0.308	0.149	1
				49	22.20	21.43	20.65	17.71	0.408	0.342	0.286	0.145	1
				99	22.19	21.23	20.62	17.66	0.407	0.327	0.284	0.144	1
			100	0	21.21	20.23	19.53	17.49	0.325	0.259	0.221	0.138	1
	132572	1770	1	0	22.22	21.36	20.84	17.83	0.410	0.337	0.299	0.149	1
				49	22.21	21.35	20.71	17.77	0.409	0.336	0.290	0.147	1
				99	22.10	21.21	20.57	17.62	0.399	0.325	0.281	0.142	1
			100	0	21.22	20.20	19.62	17.51	0.326	0.258	0.225	0.139	1

Note:

1. RF Output Power (W) EIRP = Conducted Output Power (dBm) + Antenna Gain (dBi)

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

Mode 7: LTE CA Band 5B

PCC				SCC					Power				ERP Power				Limit
BW (MHz)	Frequency (MHz)	RB No.	RB offset	BW (MHz)	UL Channel	Frequency (MHz)	RB No.	RB offset	QPSK (dBm)	16-QAM (dBm)	64-QAM (dBm)	256-QAM (dBm)	QPSK ERP(W)	16-QAM ERP(W)	64-QAM ERP(W)	256-QAM ERP(W)	Limit (W) ERP
5	826.8	1	24	10	20500	834	1	0	23.26	22.41	21.65	18.28	0.356	0.293	0.246	0.113	7
		25	0				50	0	20.70	19.75	19.32	18.16	0.198	0.159	0.144	0.110	7
	831.8	1	24			839	1	0	23.42	22.53	21.72	18.40	0.370	0.301	0.250	0.116	7
		25	0				50	0	20.73	19.77	19.49	18.21	0.199	0.160	0.150	0.111	7
	836.8	1	24		20600	844	1	0	23.58	22.72	21.81	18.63	0.384	0.315	0.255	0.123	7
		25	0				50	0	20.85	19.88	19.64	18.23	0.205	0.164	0.155	0.112	7
10	829	1	49	5	20522	836.2	1	0	23.47	22.71	21.79	18.53	0.374	0.314	0.254	0.120	7
		50	0				25	0	20.90	19.92	19.72	18.19	0.207	0.165	0.158	0.111	7
	834	1	49		20572	841.2	1	0	23.64	22.88	22.01	18.71	0.389	0.327	0.267	0.125	7
		50	0				25	0	20.96	19.98	19.77	18.36	0.210	0.167	0.160	0.115	7
	839	1	49		20622	846.2	1	0	23.71	23.01	22.21	18.74	0.395	0.337	0.280	0.126	7
		50	0				25	0	21.14	20.14	19.86	18.22	0.219	0.174	0.163	0.112	7
	829	1	49		20549	838.9	1	0	23.40	22.66	21.75	18.41	0.368	0.310	0.252	0.117	7
		50	0				50	0	20.76	19.79	19.55	18.11	0.200	0.160	0.152	0.109	7
	831.6	1	49		20575	841.5	1	0	23.50	22.76	21.82	18.63	0.377	0.318	0.256	0.123	7
		50	0				50	0	20.81	19.77	19.45	18.20	0.203	0.160	0.148	0.111	7
	834.1	1	49		20600	844	1	0	23.60	22.82	21.90	18.65	0.385	0.322	0.261	0.123	7
		50	0				50	0	20.84	19.84	19.66	18.33	0.204	0.162	0.156	0.115	7

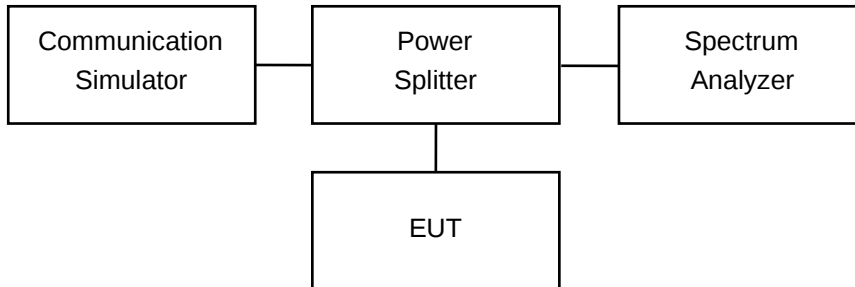
Note:

1. RF Output Power (W) ERP = Conducted Output Power (dBm) + Antenna Gain (dBi) - 2.15 dB

2. Power (W) = $(10^{(\text{Power(dBm)}/10)}) \times 10^{-3}$

4. Occupied Bandwidth

4.1. Test Setup



4.2. Test Procedure

The EUT makes a call to the communication simulator. The 26dB bandwidth and 99% occupied bandwidth measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement.

4.3. Test Methodology and Reference Procedures

KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

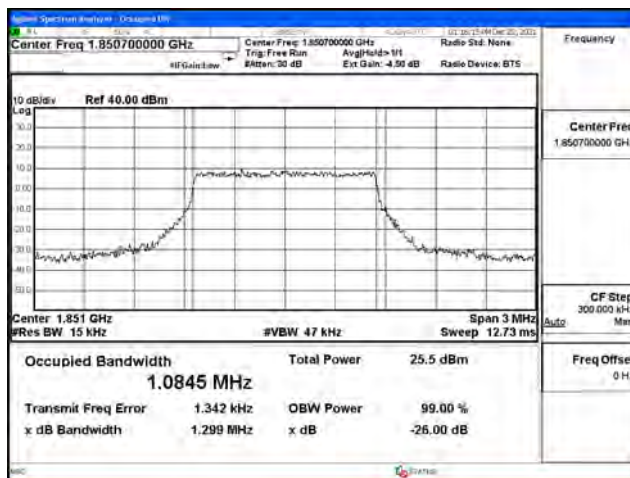
4.4. Test Result of Occupied Bandwidth

Mode 1: LTE Band 2

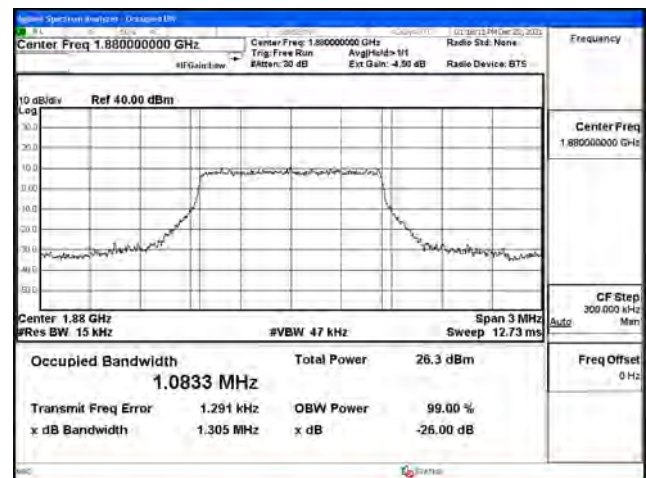
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
1.4	QPSK	18607	1850.7	1.299	1.085	N/A
		18900	1880	1.305	1.083	N/A
		19193	1909.3	1.310	1.082	N/A
	16-QAM	18607	1850.7	1.310	1.086	N/A
		18900	1880	1.294	1.083	N/A
		19193	1909.3	1.330	1.085	N/A
	64-QAM	18607	1850.7	1.309	1.086	N/A
		18900	1880	1.278	1.082	N/A
		19193	1909.3	1.296	1.084	N/A
	256-QAM	18607	1850.7	1.320	1.080	N/A
		18900	1880	1.319	1.077	N/A
		19193	1909.3	1.298	1.080	N/A
3	QPSK	18615	1851.5	2.977	2.696	N/A
		18900	1880	3.003	2.698	N/A
		19185	1908.5	3.000	2.691	N/A
	16-QAM	18615	1851.5	3.015	2.698	N/A
		18900	1880	3.002	2.696	N/A
		19185	1908.5	2.993	2.697	N/A
	64-QAM	18615	1851.5	3.019	2.696	N/A
		18900	1880	3.011	2.693	N/A
		19185	1908.5	2.985	2.697	N/A
	256-QAM	18615	1851.5	2.950	2.681	N/A
		18900	1880	2.961	2.678	N/A
		19185	1908.5	2.981	2.682	N/A
5	QPSK	18625	1852.5	5.063	4.493	N/A
		18900	1880	5.051	4.490	N/A
		19175	1907.5	5.017	4.487	N/A
	16-QAM	18625	1852.5	5.053	4.491	N/A
		18900	1880	5.084	4.491	N/A
		19175	1907.5	5.057	4.489	N/A
	64-QAM	18625	1852.5	5.065	4.488	N/A
		18900	1880	4.976	4.489	N/A
		19175	1907.5	5.000	4.489	N/A
	256-QAM	18625	1852.5	4.982	4.474	N/A
		18900	1880	4.970	4.472	N/A
		19175	1907.5	4.934	4.469	N/A

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
10	QPSK	18650	1855	9.822	8.963	N/A
		18900	1880	9.869	8.966	N/A
		19150	1905	9.749	8.962	N/A
	16-QAM	18650	1855	9.803	8.952	N/A
		18900	1880	9.820	8.981	N/A
		19150	1905	9.952	8.983	N/A
	64-QAM	18650	1855	9.829	8.959	N/A
		18900	1880	9.851	8.981	N/A
		19150	1905	9.893	8.984	N/A
	256-QAM	18650	1855	9.753	8.949	N/A
		18900	1880	9.701	8.958	N/A
		19150	1905	9.754	8.960	N/A
15	QPSK	18900	1857.5	14.520	13.429	N/A
		18900	1880	14.540	13.451	N/A
		19125	1902.5	14.710	13.479	N/A
	16-QAM	18900	1857.5	13.950	13.408	N/A
		18900	1880	14.500	13.462	N/A
		19125	1902.5	14.670	13.467	N/A
	64-QAM	18900	1857.5	14.440	13.440	N/A
		18900	1880	14.510	13.424	N/A
		19125	1902.5	14.540	13.476	N/A
	256-QAM	18900	1857.5	14.570	13.399	N/A
		18900	1880	15.570	13.450	N/A
		19125	1902.5	14.630	13.439	N/A
20	QPSK	18700	1860	19.300	17.871	N/A
		18900	1880	19.190	17.946	N/A
		19100	1900	19.310	17.933	N/A
	16-QAM	18700	1860	19.370	17.866	N/A
		18900	1880	19.020	17.924	N/A
		19100	1900	19.180	17.959	N/A
	64-QAM	18700	1860	19.460	17.880	N/A
		18900	1880	19.250	17.934	N/A
		19100	1900	19.280	17.949	N/A
	256-QAM	18700	1860	19.400	17.875	N/A
		18900	1880	19.190	17.897	N/A
		19100	1900	19.490	17.931	N/A

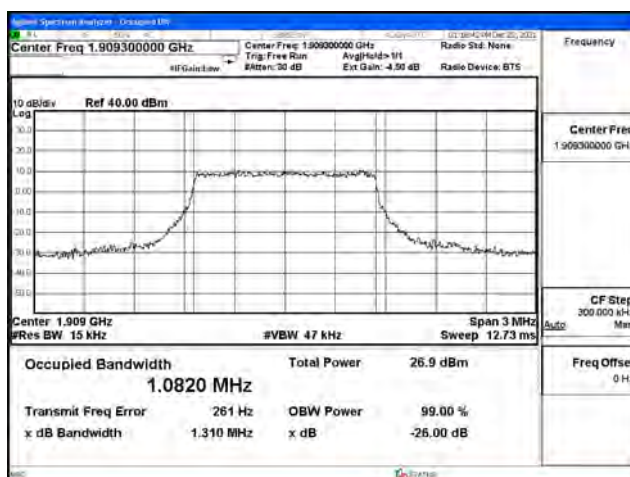
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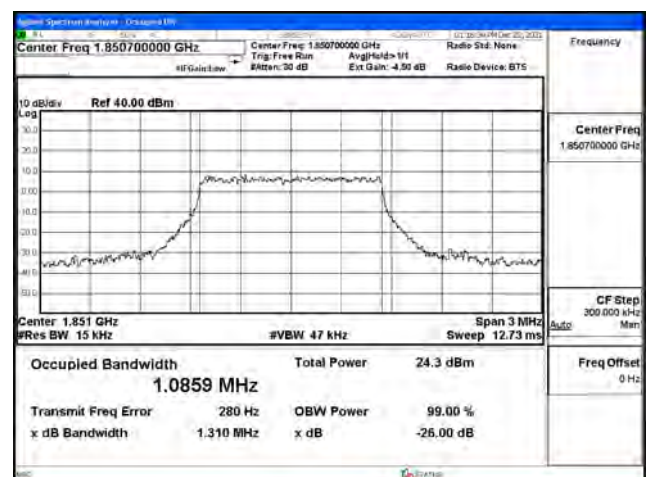
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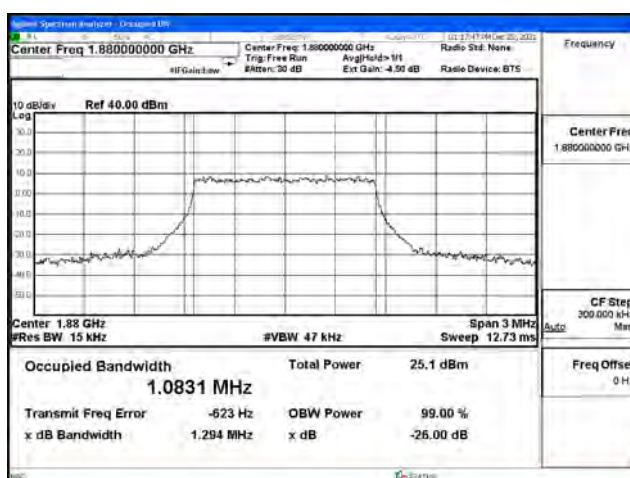
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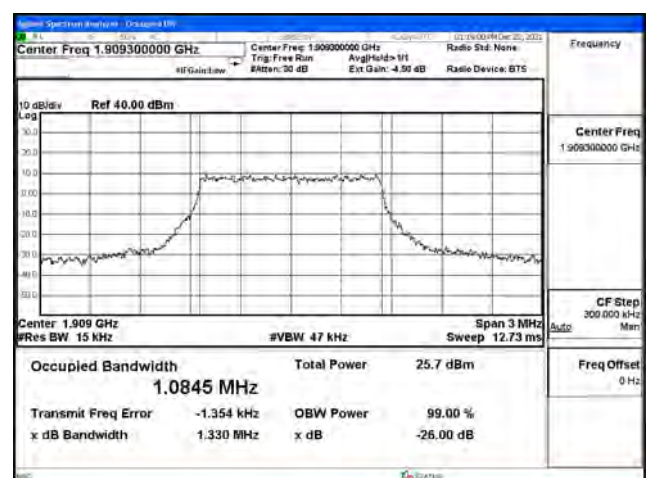
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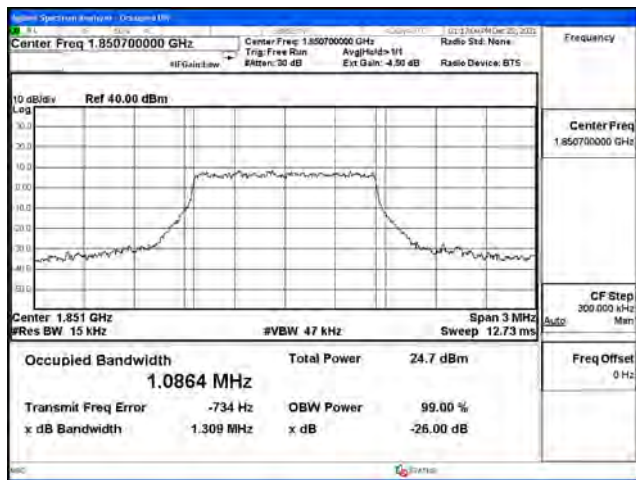
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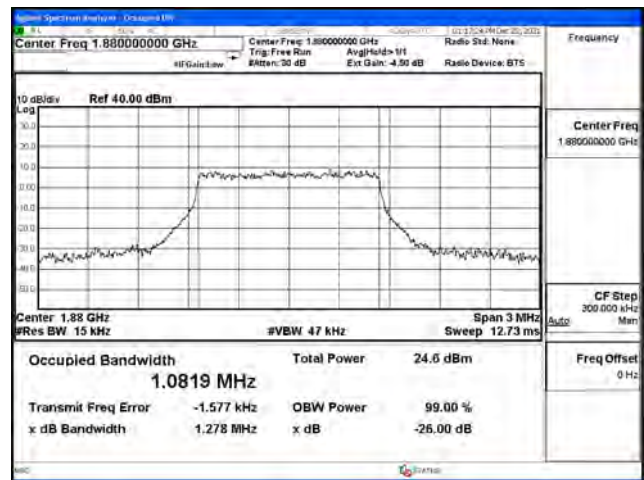
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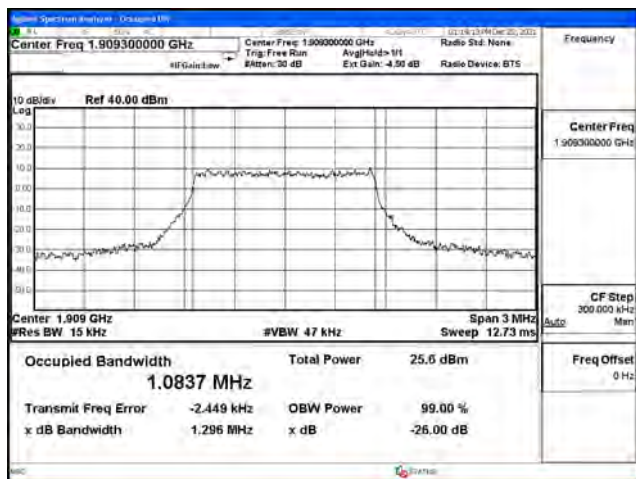
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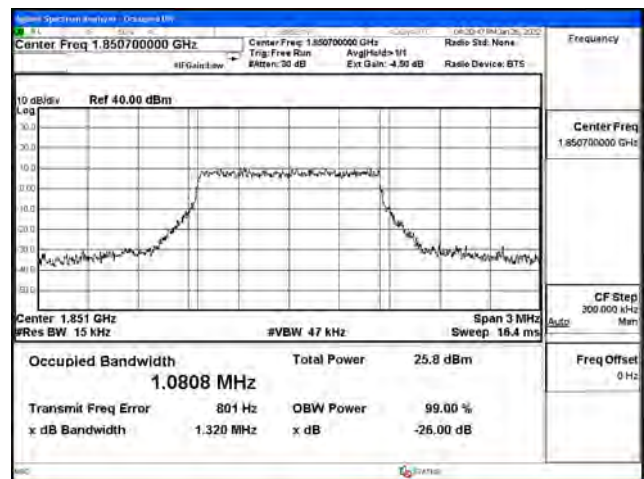
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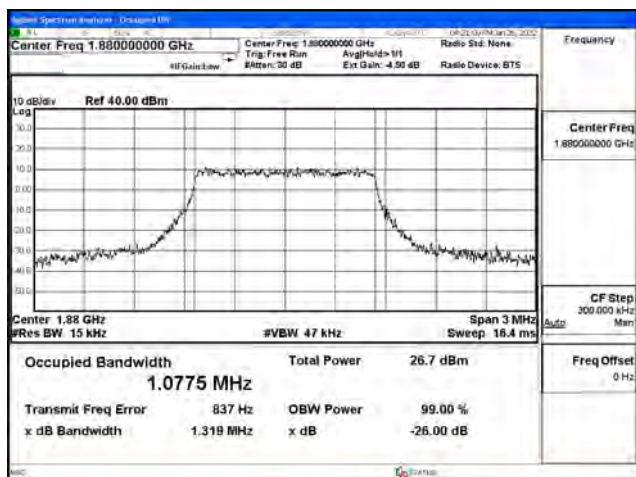
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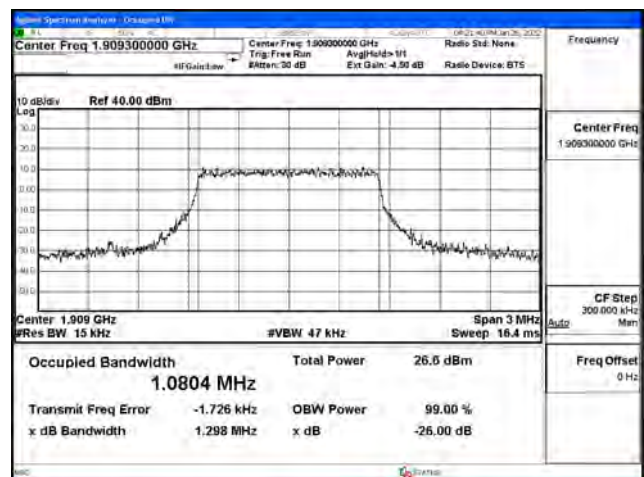
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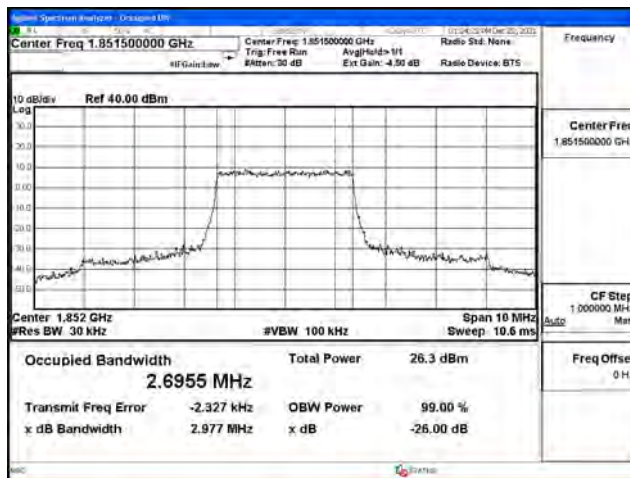
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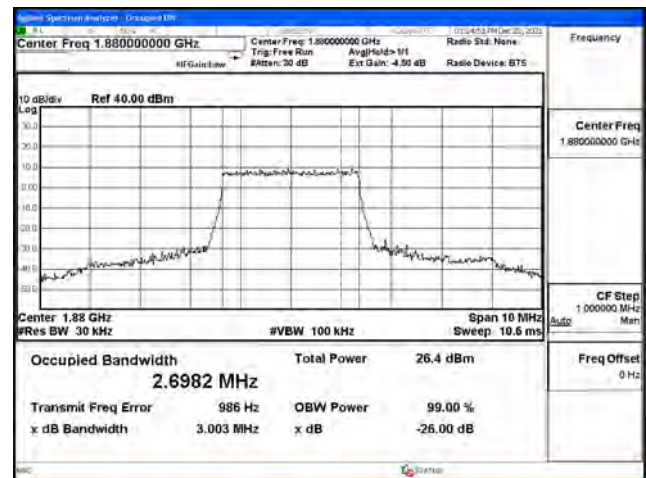
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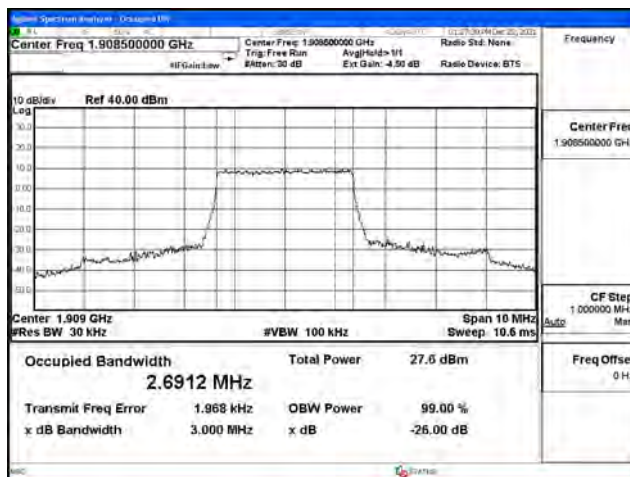
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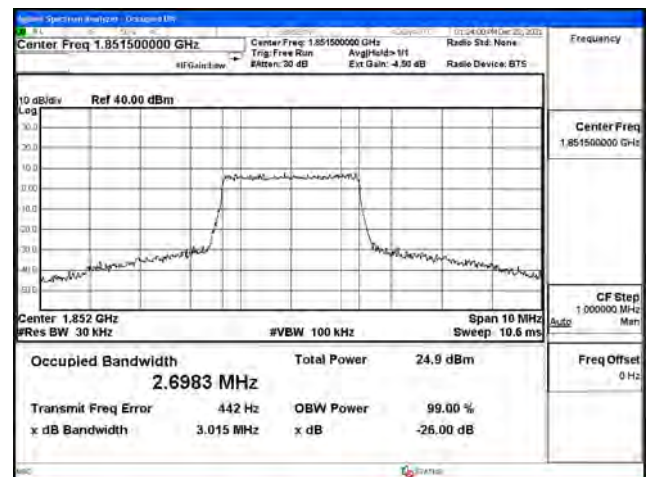
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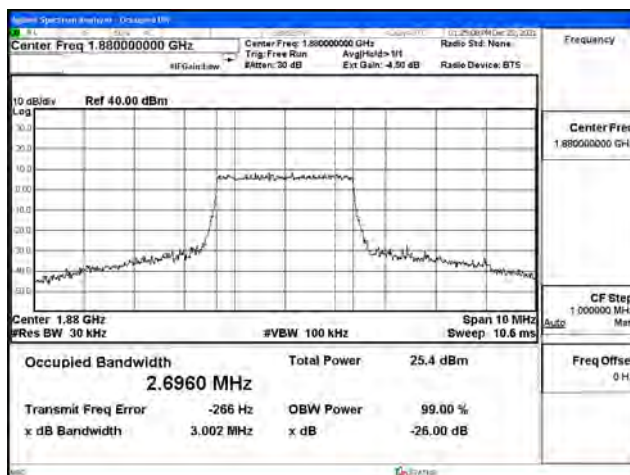
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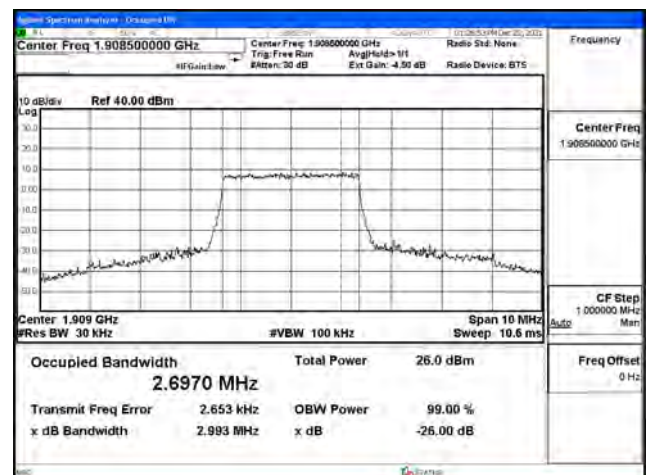
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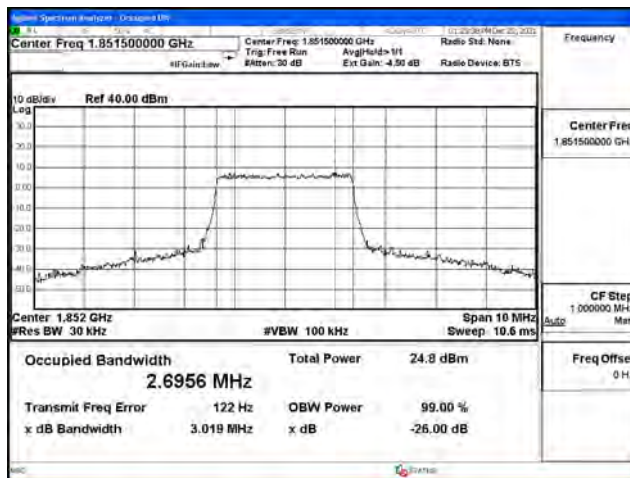
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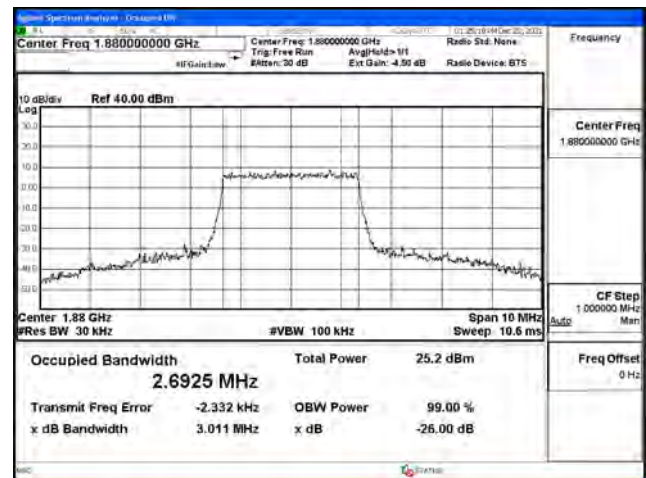
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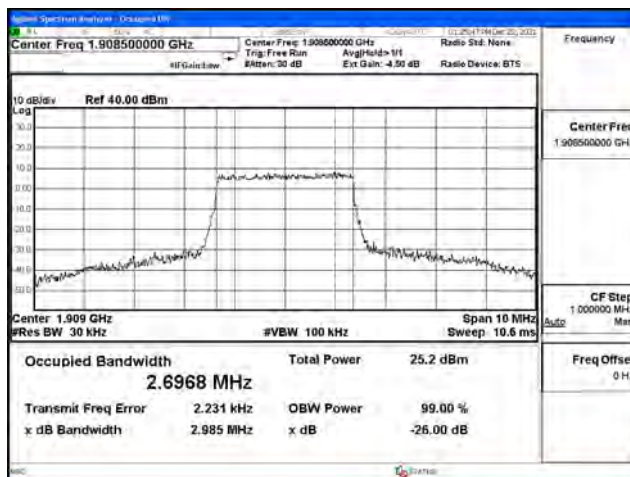
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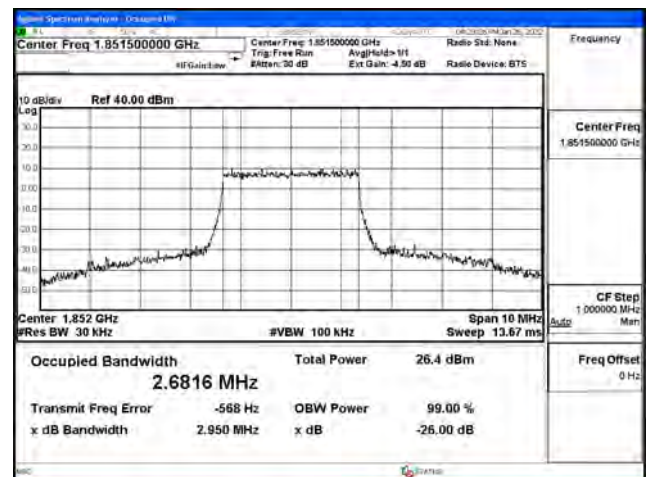
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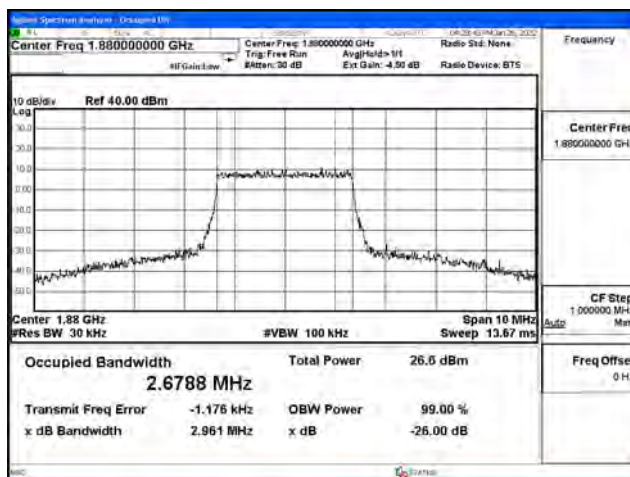
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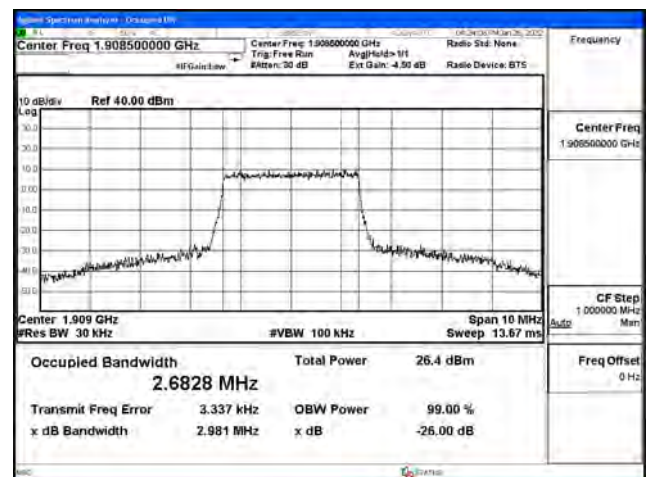
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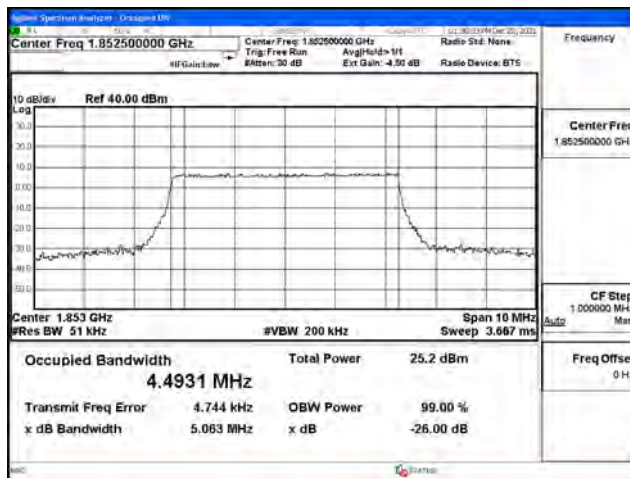
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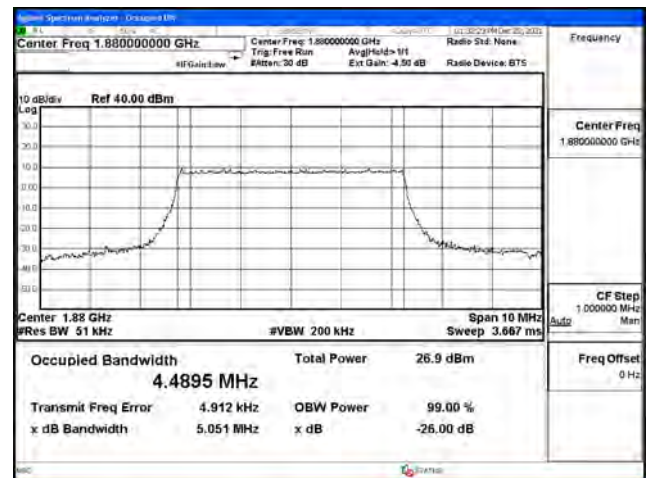
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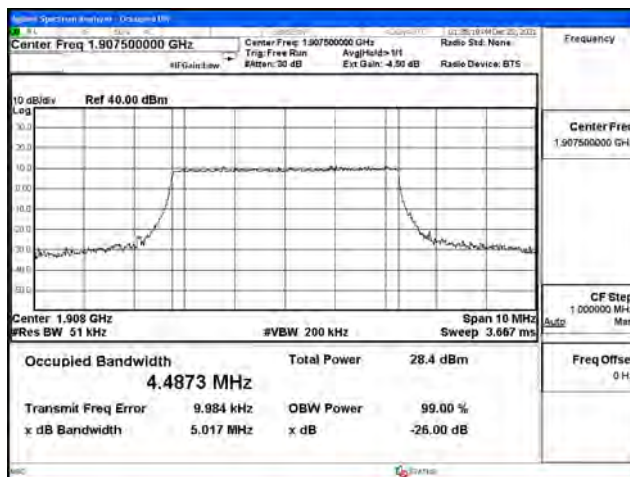
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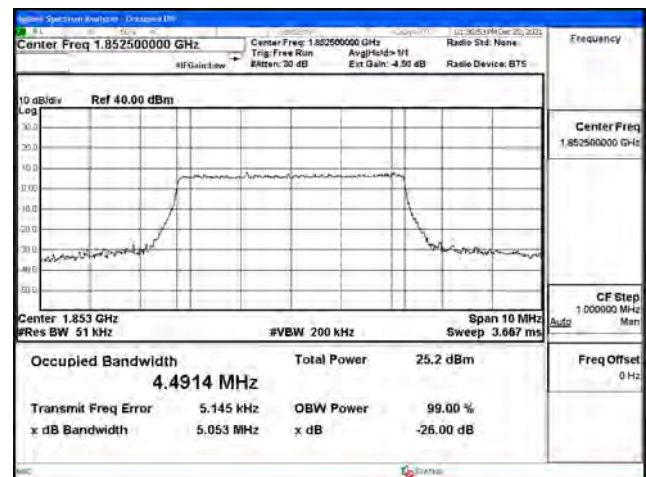
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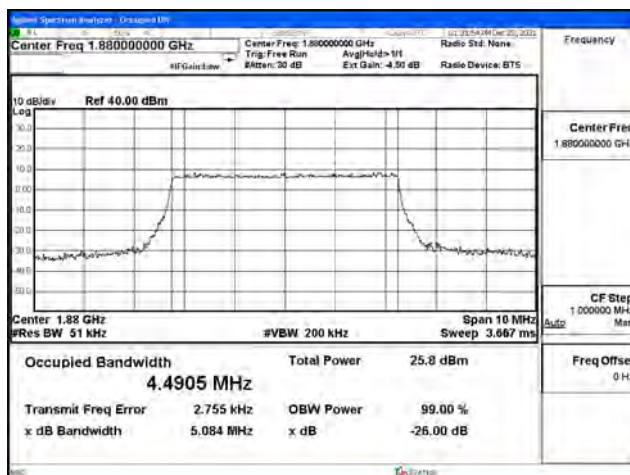
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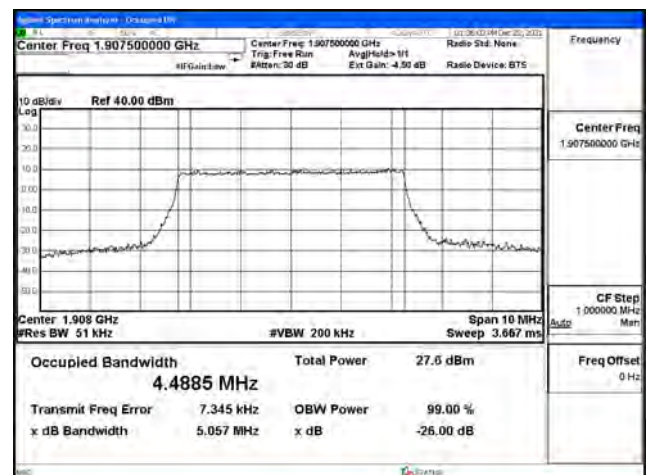
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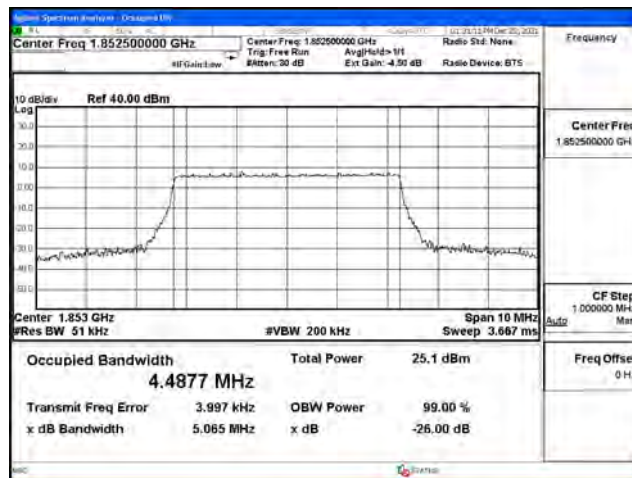
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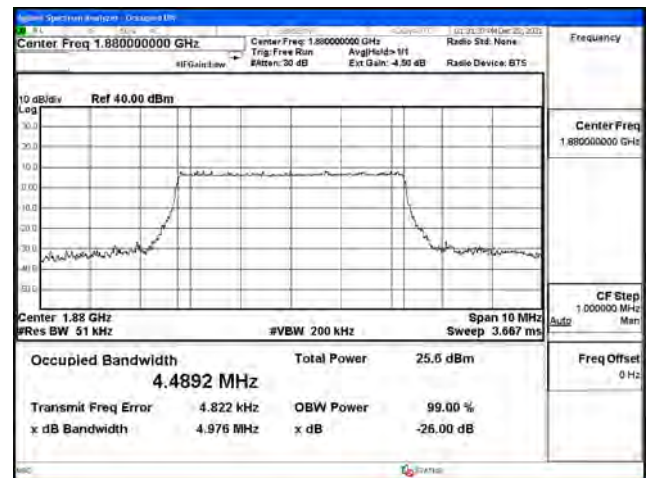
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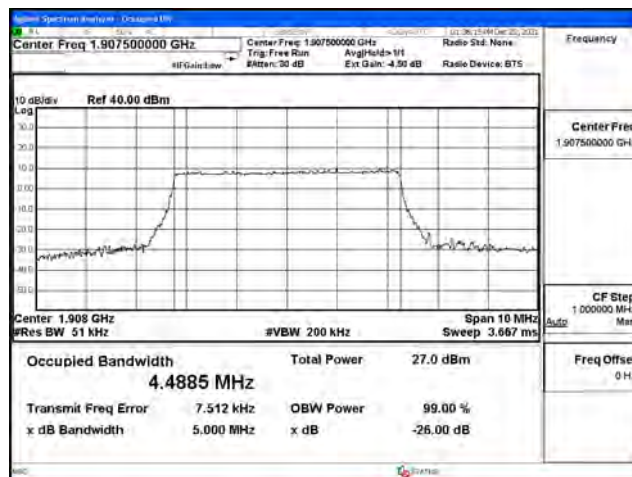
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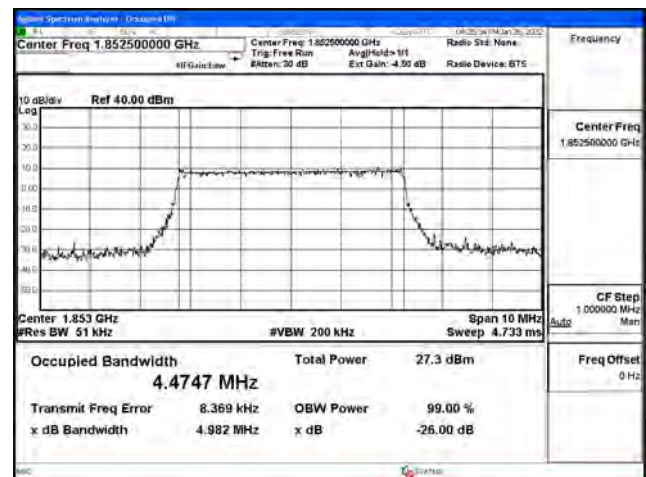
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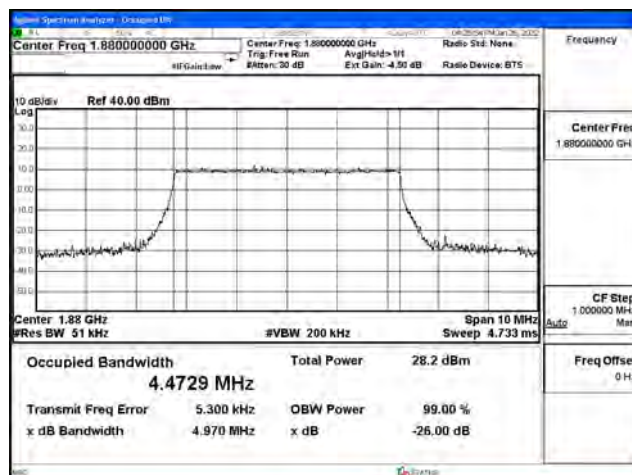
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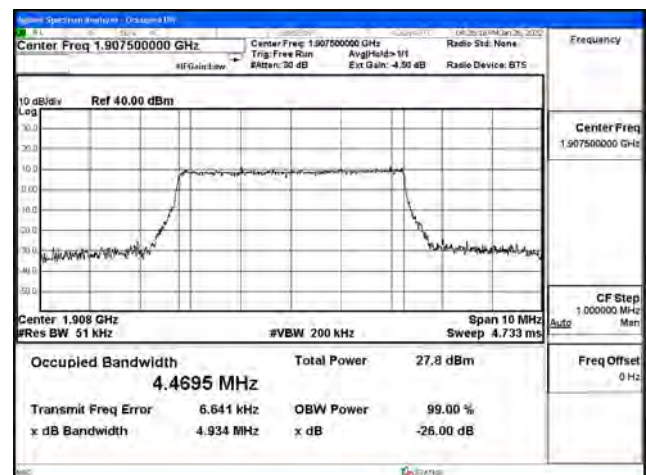
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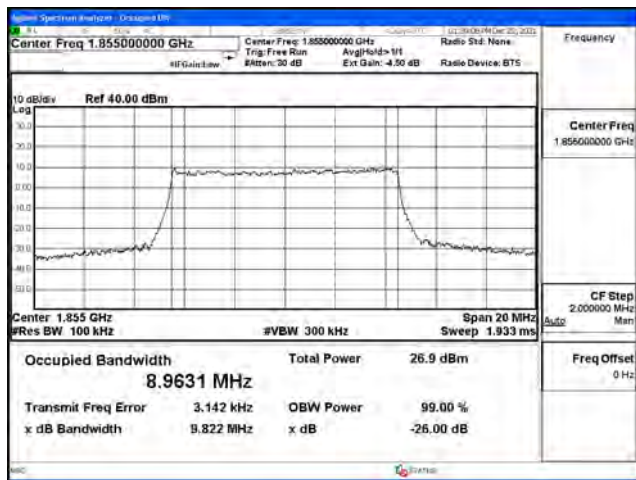
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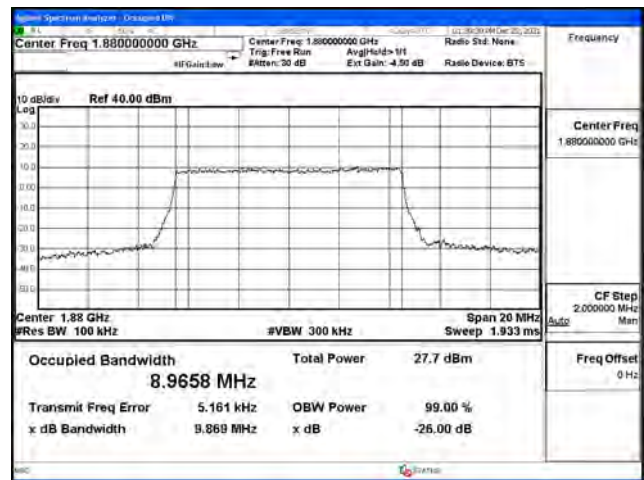
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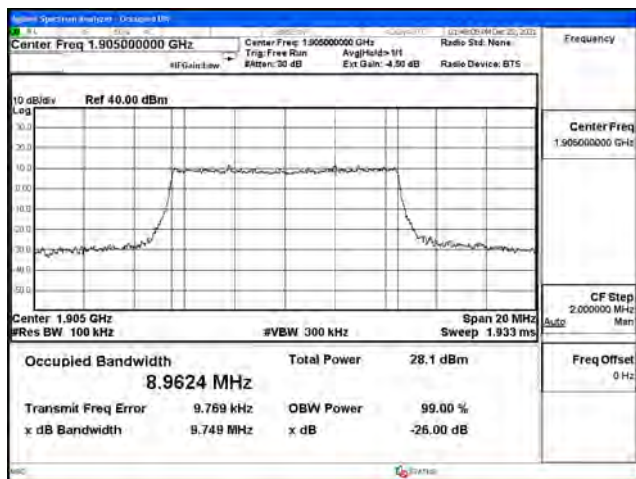
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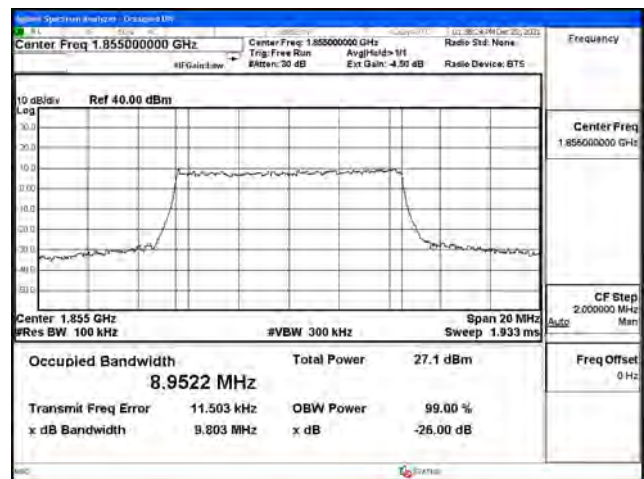
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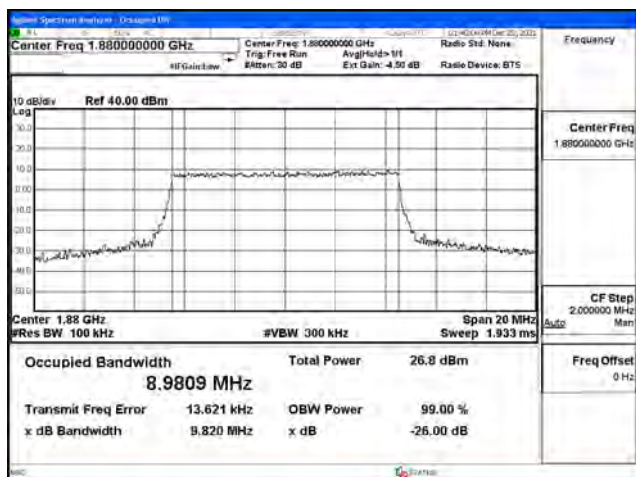
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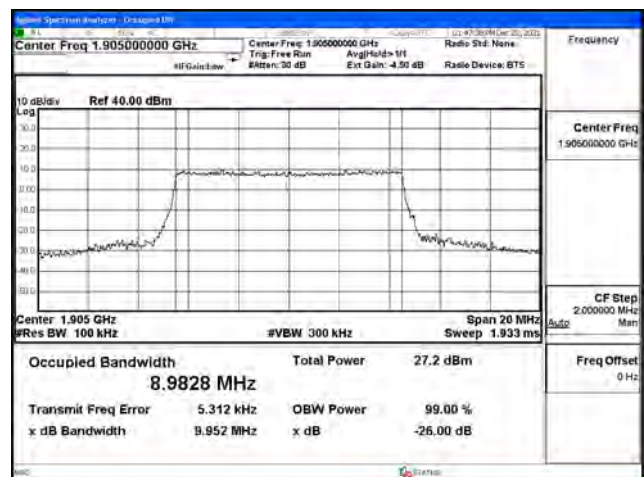
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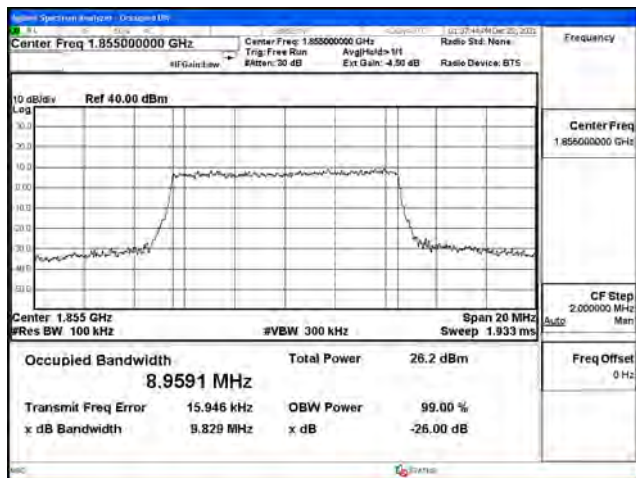
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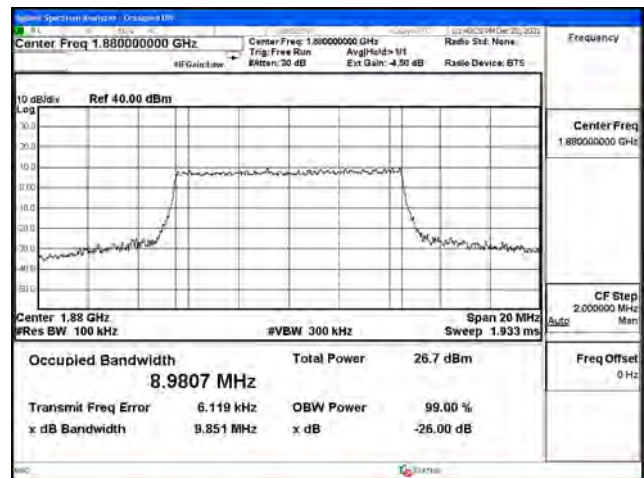
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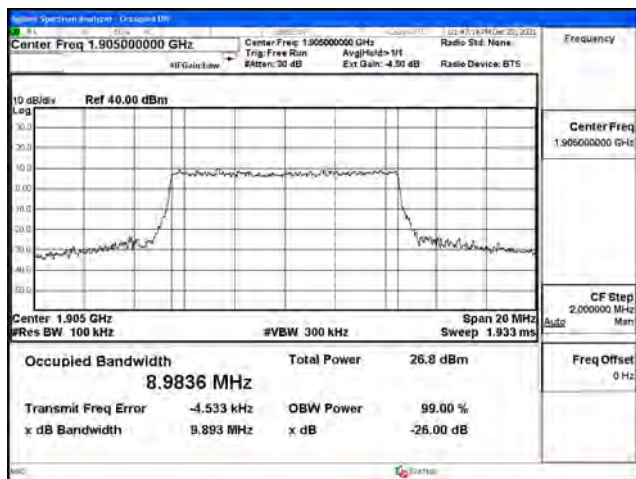
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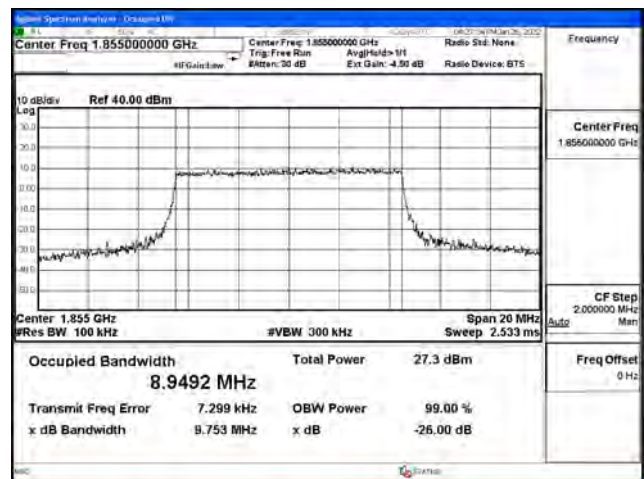
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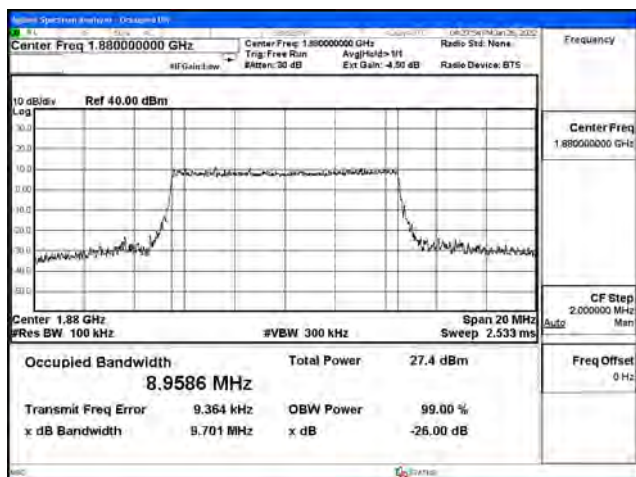
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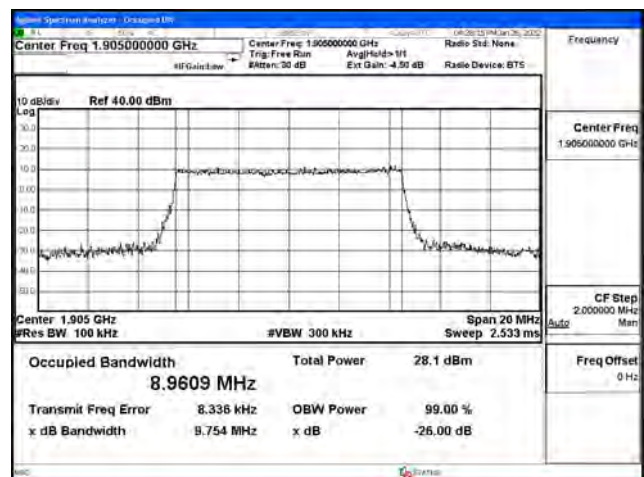
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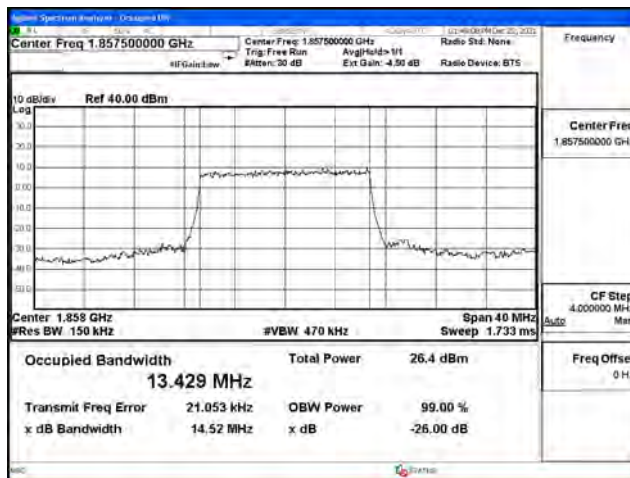
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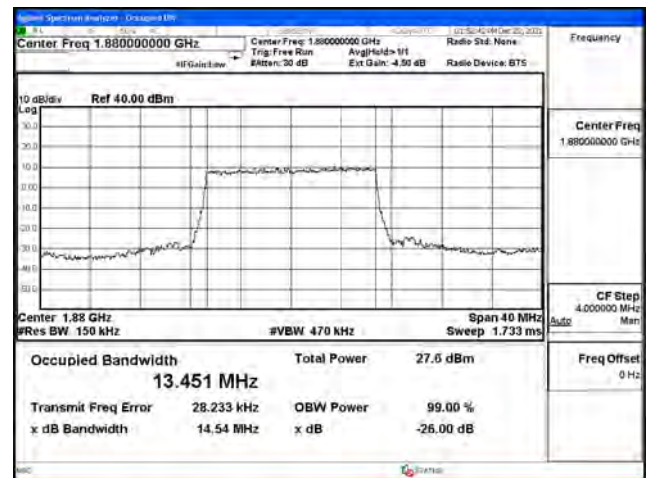
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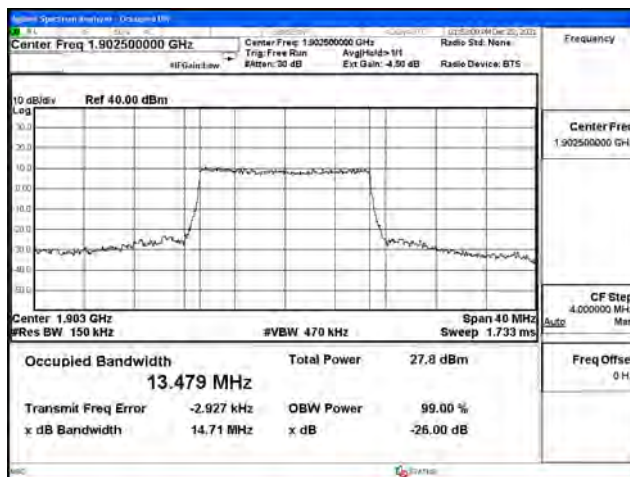
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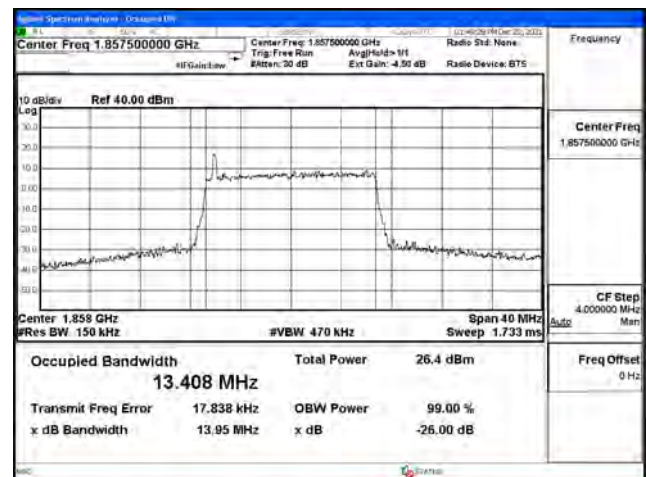
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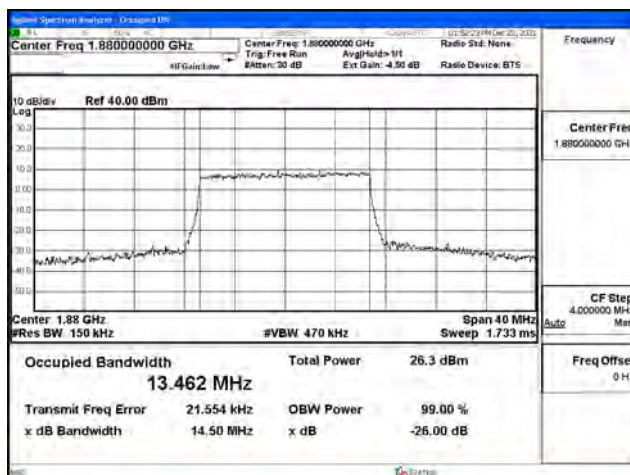
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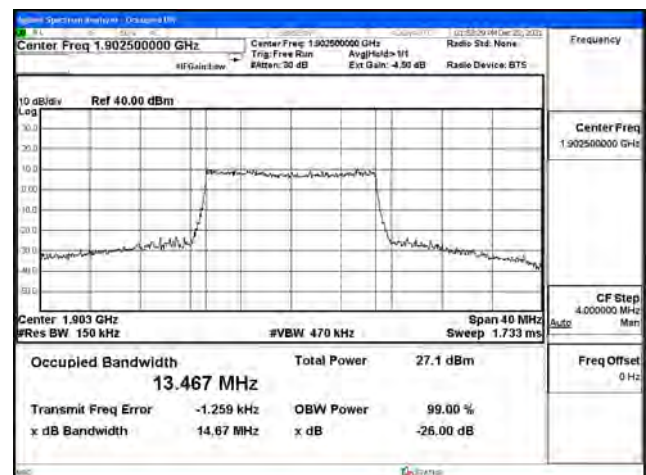
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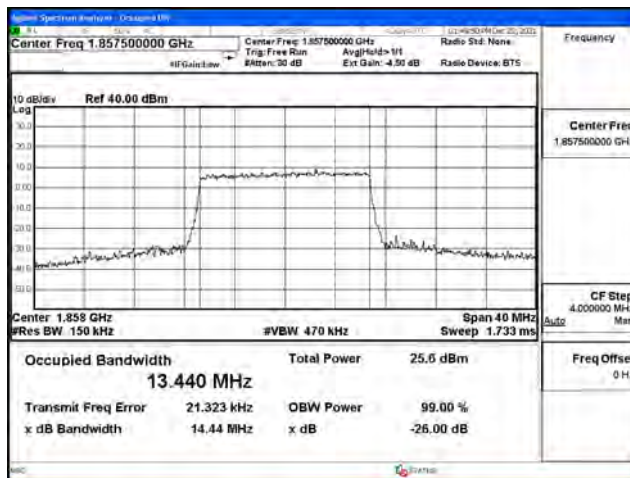
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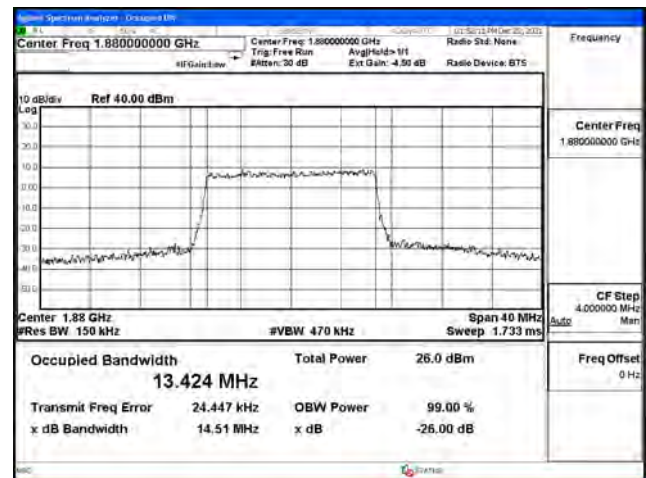
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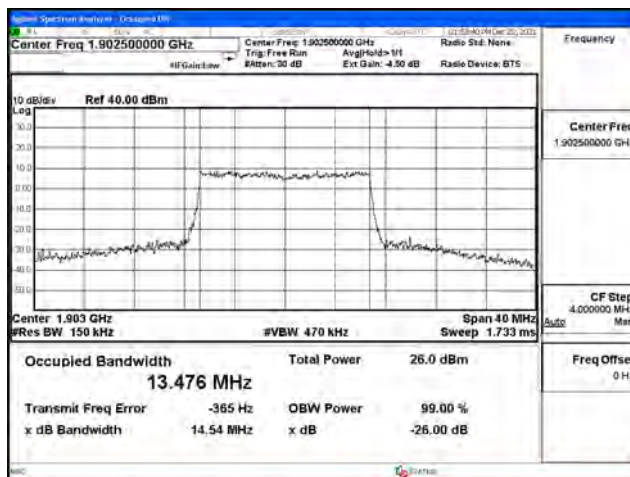
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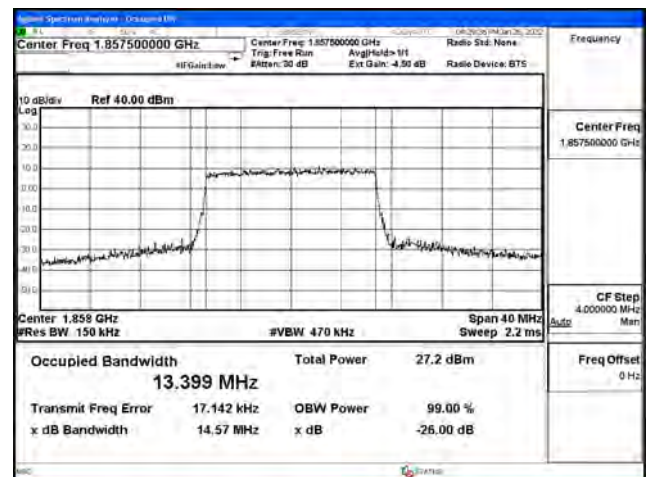
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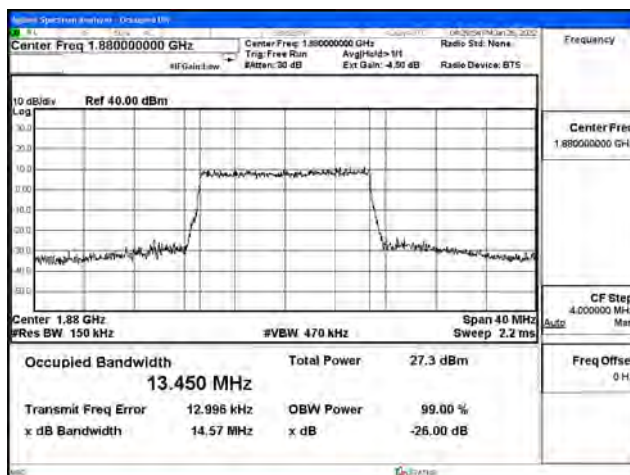
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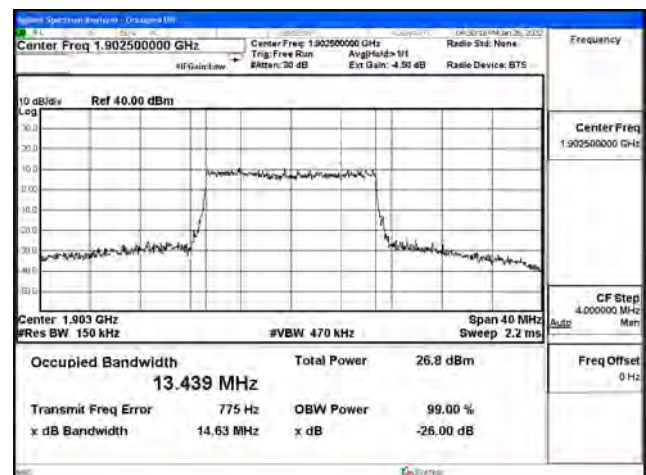
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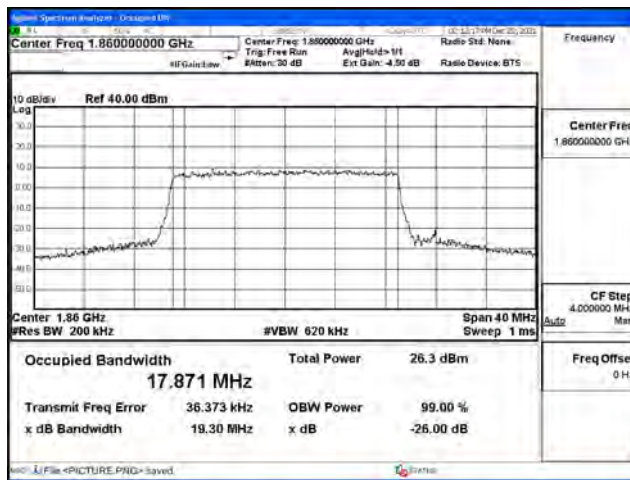
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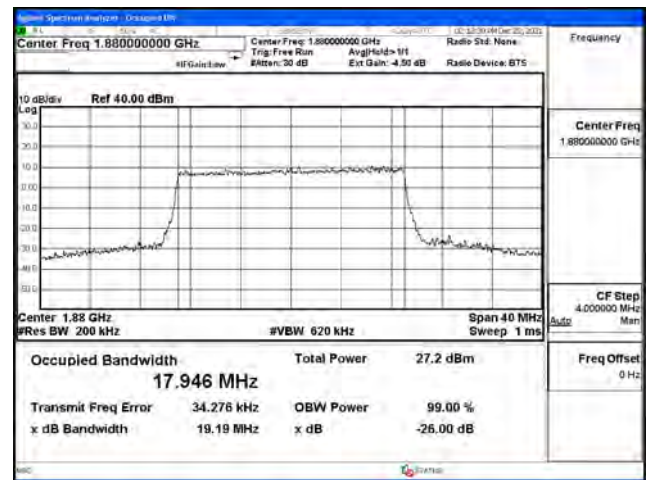
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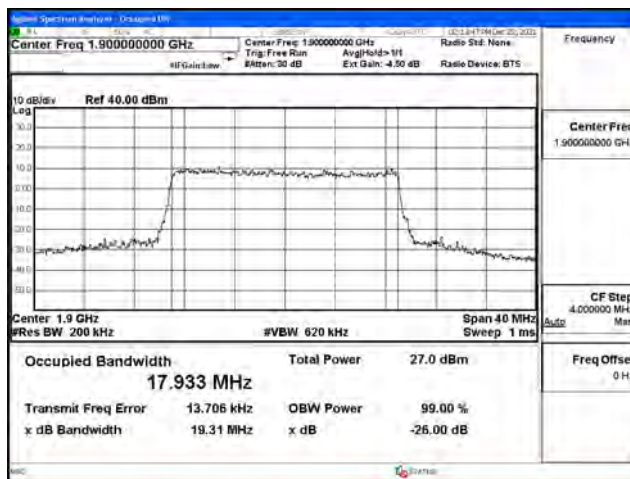
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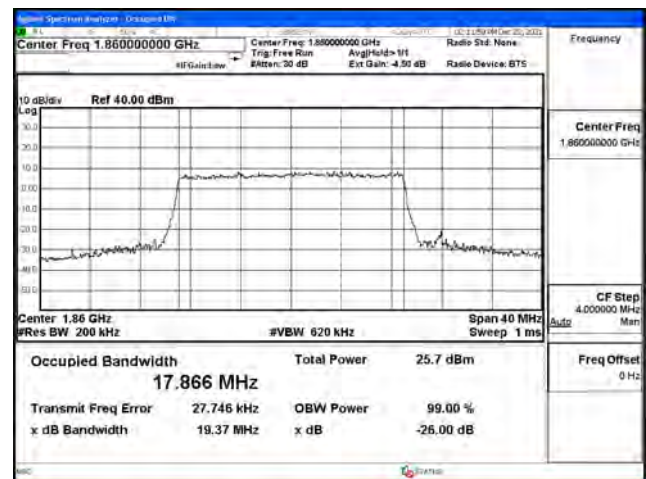
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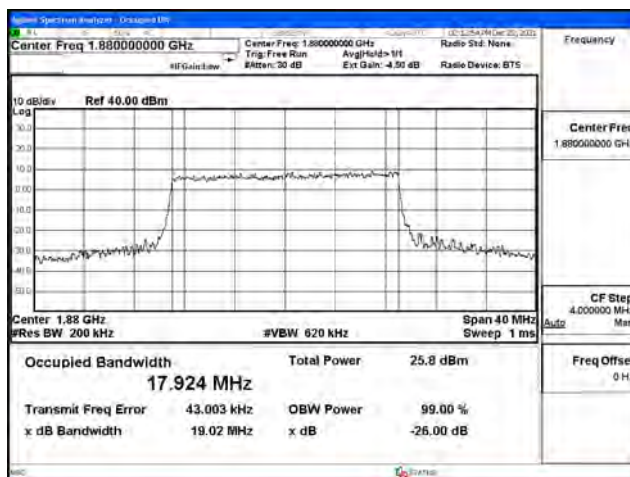
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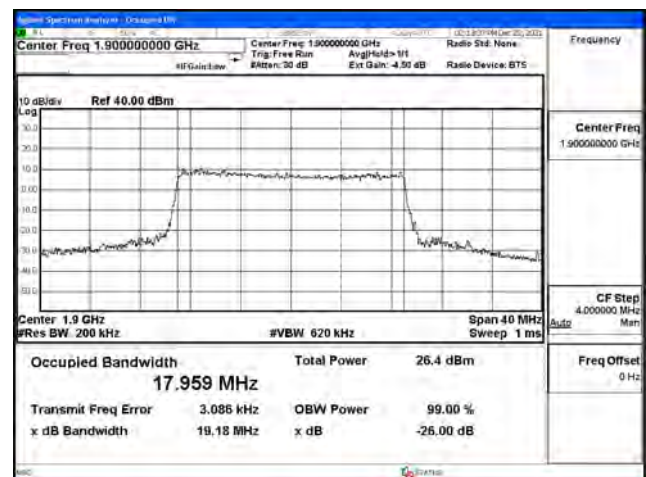
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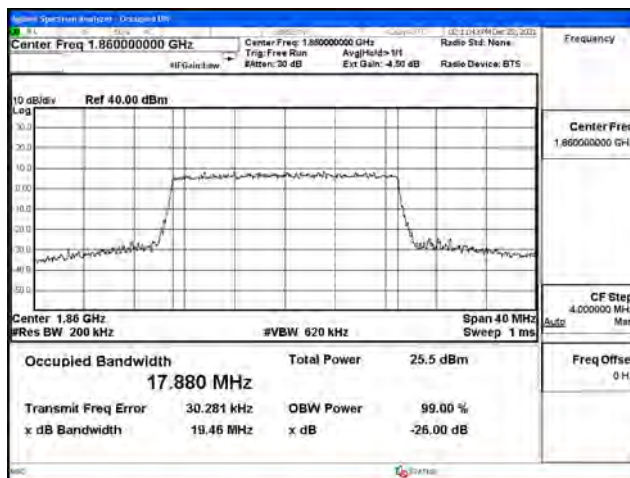
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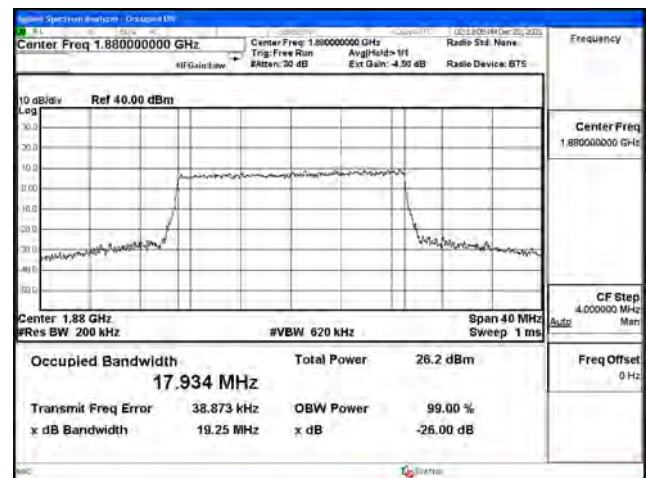
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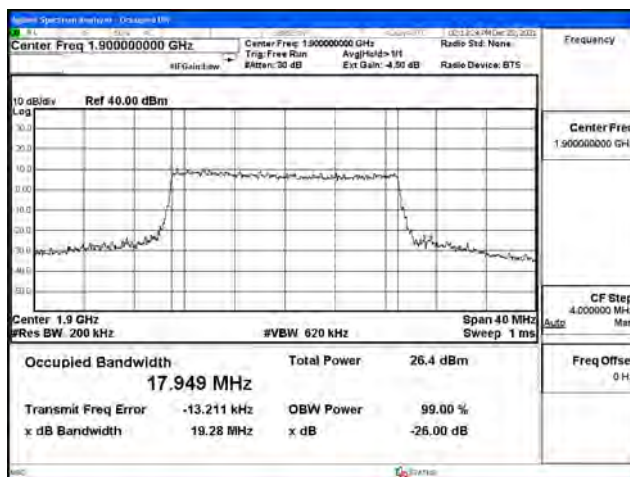
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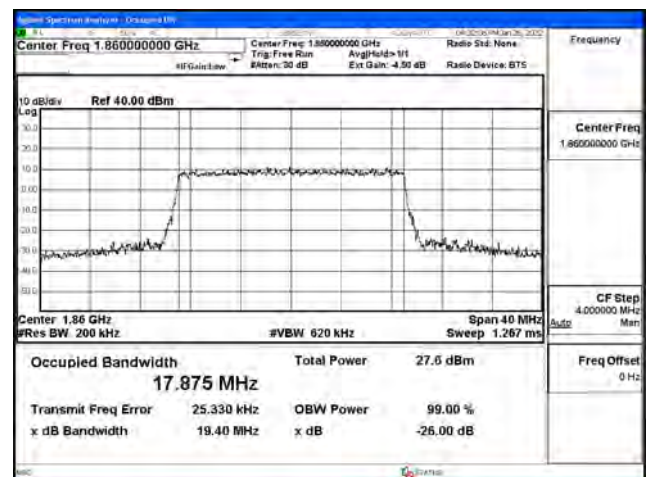
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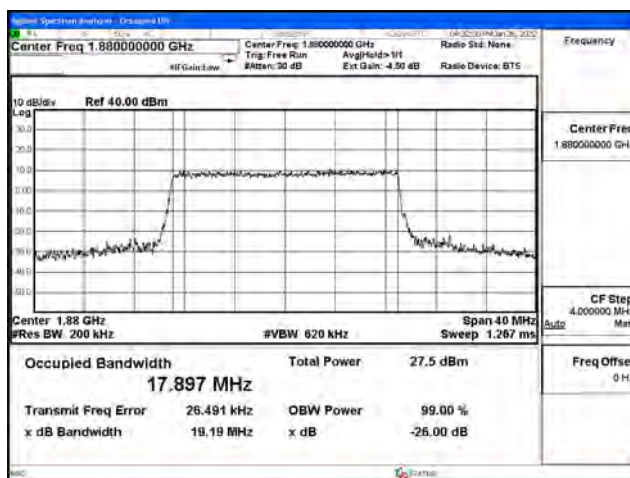
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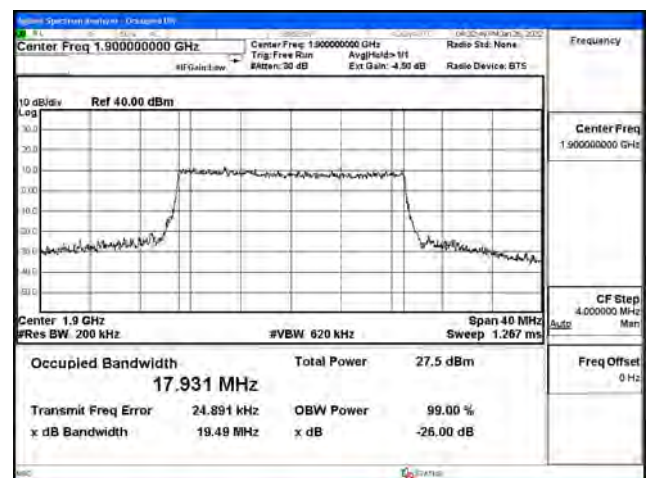
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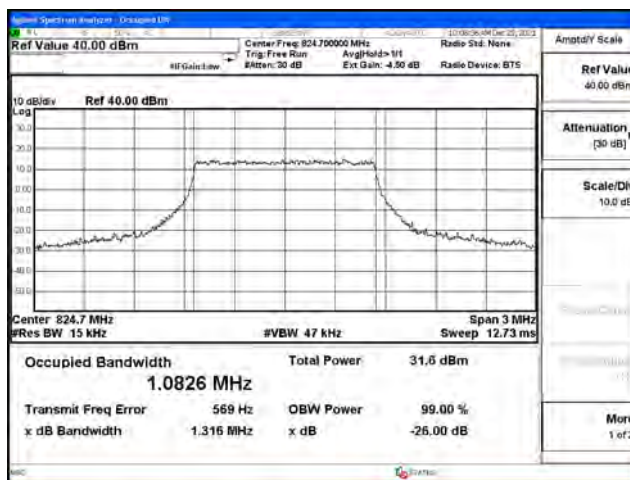


Mode 2: LTE Band 5

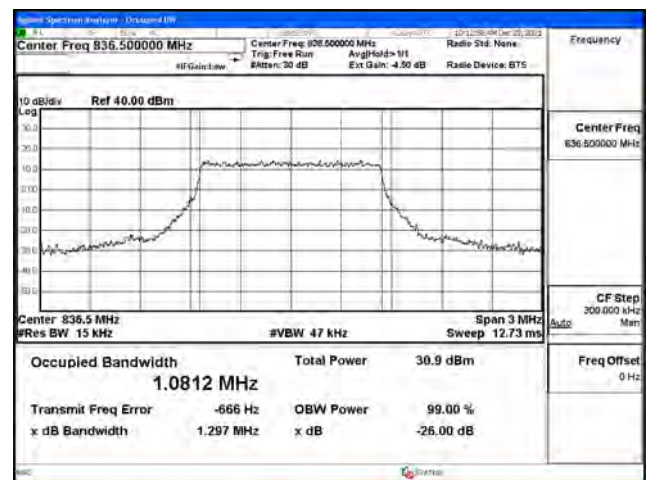
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
1.4	QPSK	20407	824.7	1.316	1.083	N/A
		20525	836.5	1.297	1.081	N/A
		20643	848.3	1.279	1.084	N/A
	16-QAM	20407	824.7	1.321	1.086	N/A
		20525	836.5	1.289	1.086	N/A
		20643	848.3	1.314	1.085	N/A
	64-QAM	20407	824.7	1.318	1.083	N/A
		20525	836.5	1.303	1.087	N/A
		20643	848.3	1.319	1.087	N/A
	256-QAM	20407	824.7	1.295	1.080	N/A
		20525	836.5	1.294	1.078	N/A
		20643	848.3	1.260	1.080	N/A
3	QPSK	20415	825.5	2.911	2.695	N/A
		20525	836.5	3.032	2.690	N/A
		20635	847.5	2.979	2.688	N/A
	16-QAM	20415	825.5	3.012	2.692	N/A
		20525	836.5	2.992	2.698	N/A
		20635	847.5	2.999	2.692	N/A
	64-QAM	20415	825.5	3.020	2.693	N/A
		20525	836.5	2.992	2.692	N/A
		20635	847.5	3.015	2.697	N/A
	256-QAM	20415	825.5	2.979	2.687	N/A
		20525	836.5	2.992	2.691	N/A
		20635	847.5	2.982	2.688	N/A
5	QPSK	20425	826.5	5.030	4.490	N/A
		20525	836.5	5.120	4.495	N/A
		20625	846.5	5.059	4.484	N/A
	16-QAM	20425	826.5	4.971	4.478	N/A
		20525	836.5	5.011	4.487	N/A
		20625	846.5	4.955	4.486	N/A
	64-QAM	20425	826.5	5.021	4.482	N/A
		20525	836.5	5.015	4.495	N/A
		20625	846.5	5.055	4.486	N/A
	256-QAM	20425	826.5	4.898	4.478	N/A
		20525	836.5	4.929	4.469	N/A
		20625	846.5	4.998	4.472	N/A

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
10	QPSK	20450.0	829.0	9.778	8.949	N/A
		20525.0	836.5	9.878	8.957	N/A
		20600.0	844.0	9.745	8.941	N/A
	16-QAM	20450.0	829.0	9.690	8.946	N/A
		20525.0	836.5	9.842	8.964	N/A
		20600.0	844.0	9.769	8.961	N/A
	64-QAM	20450.0	829.0	9.715	8.930	N/A
		20525.0	836.5	9.795	8.949	N/A
		20600.0	844.0	9.808	8.952	N/A
	256-QAM	20450.0	829.0	9.653	8.933	N/A
		20525.0	836.5	9.759	8.947	N/A
		20600.0	844.0	9.705	8.945	N/A

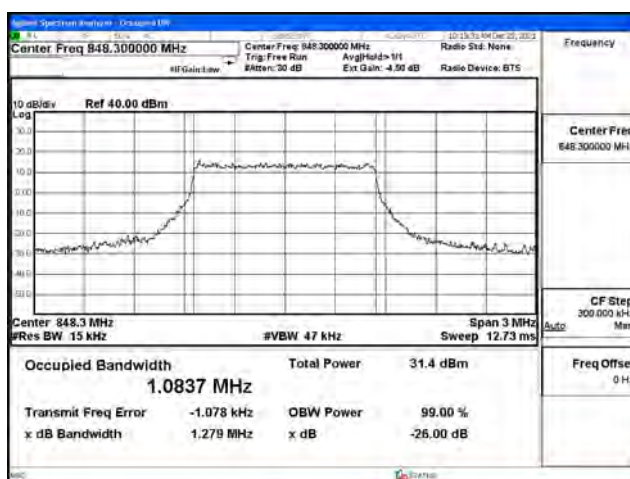
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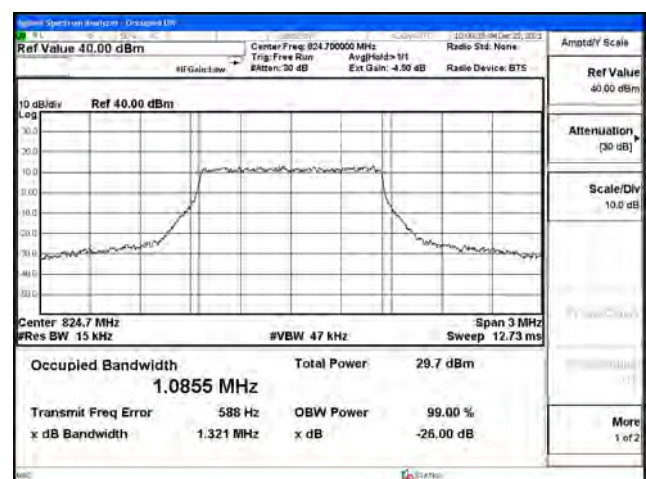
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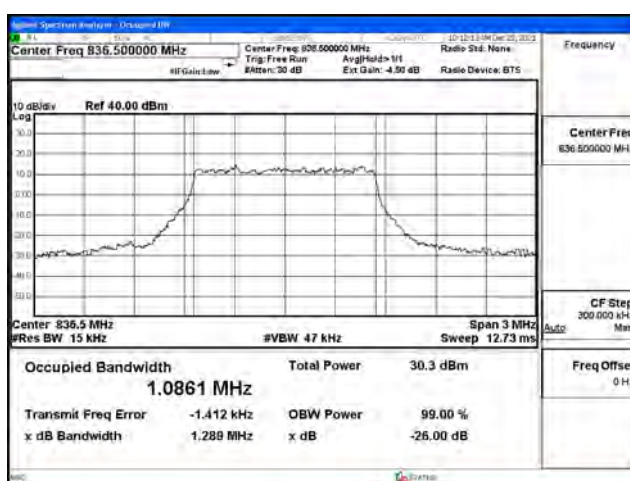
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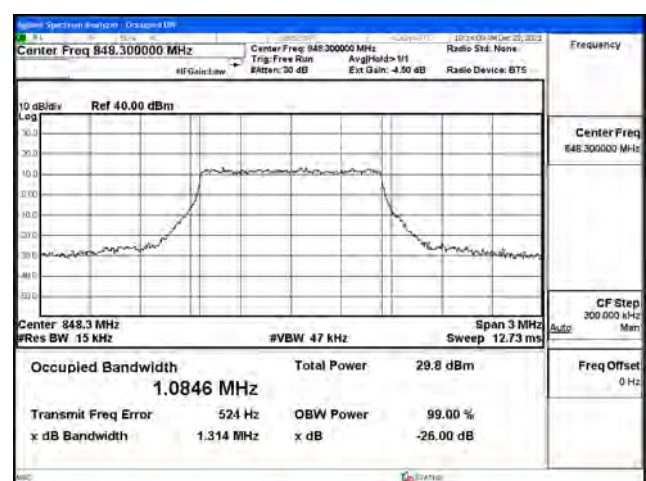
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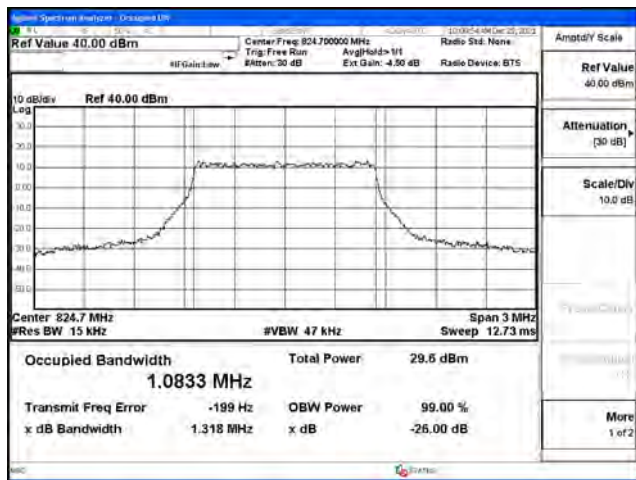
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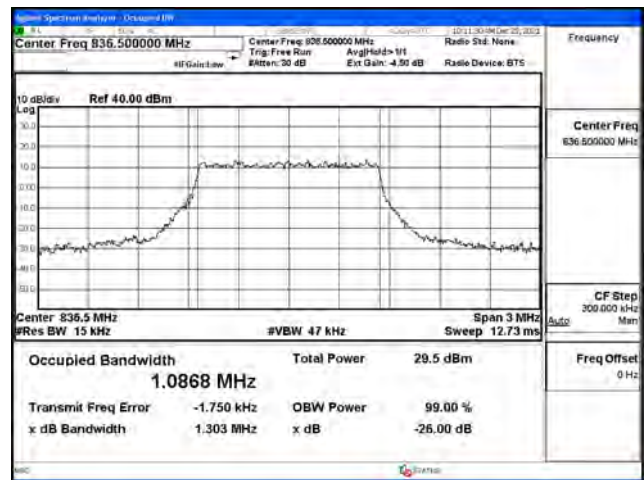
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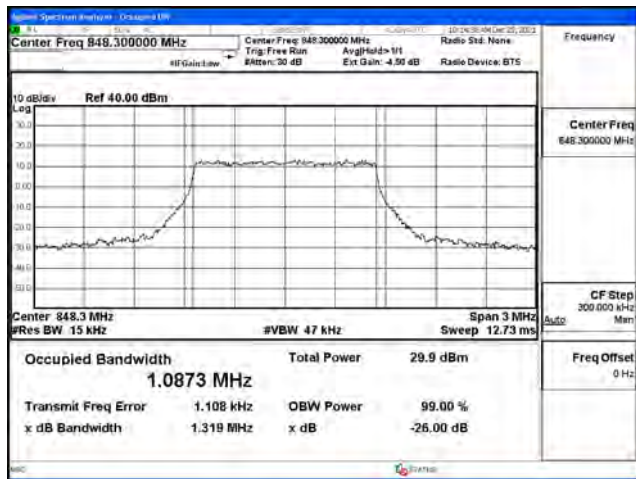
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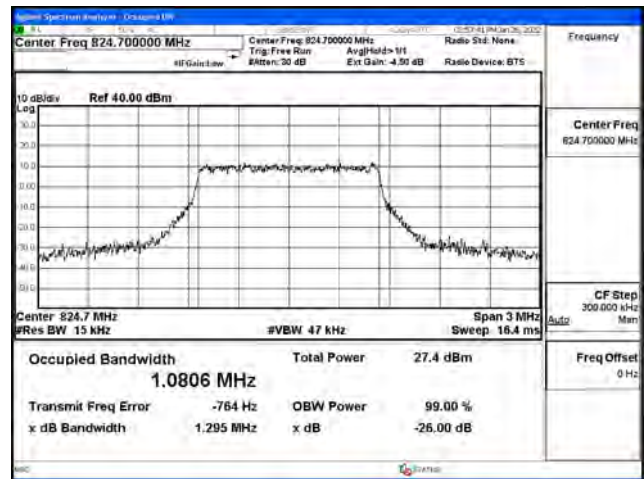
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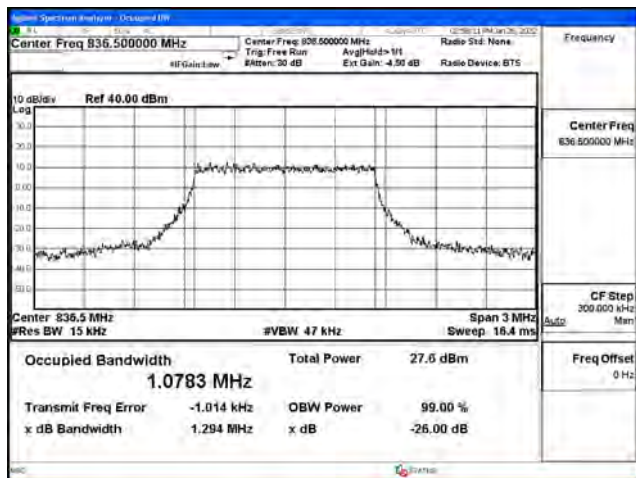
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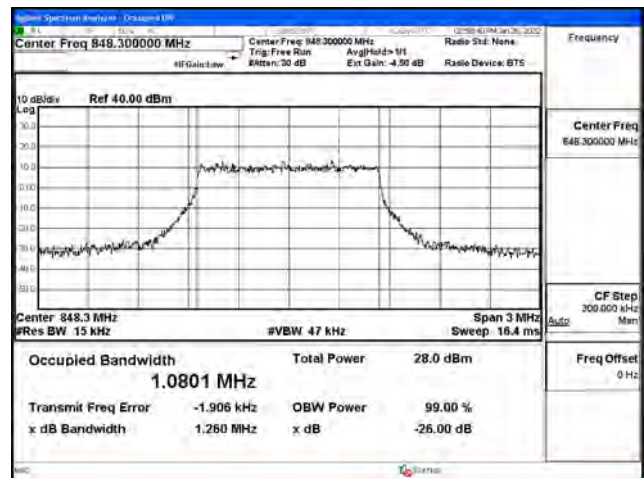
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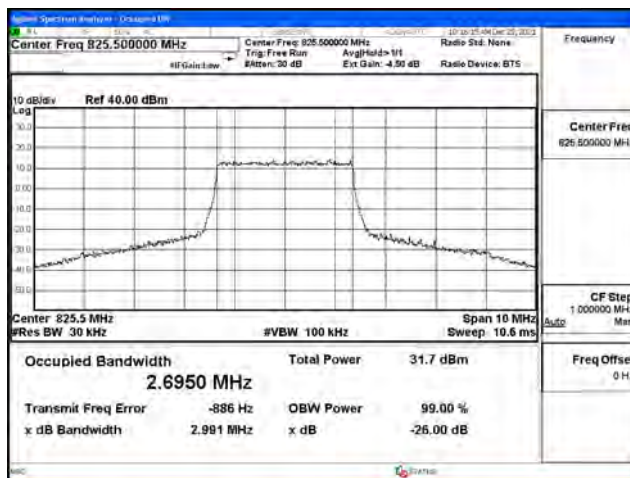
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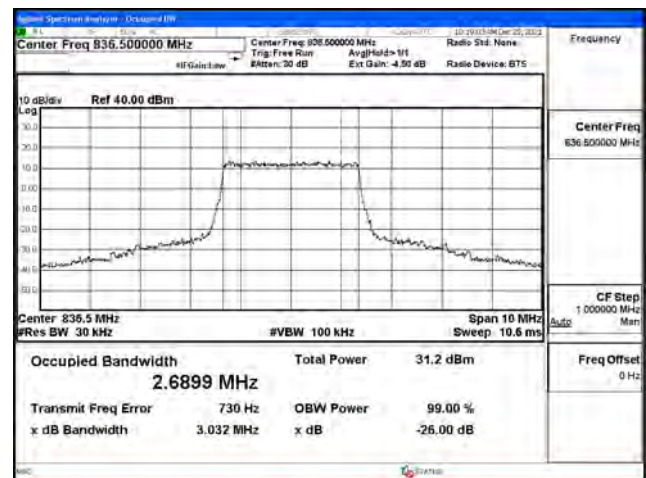
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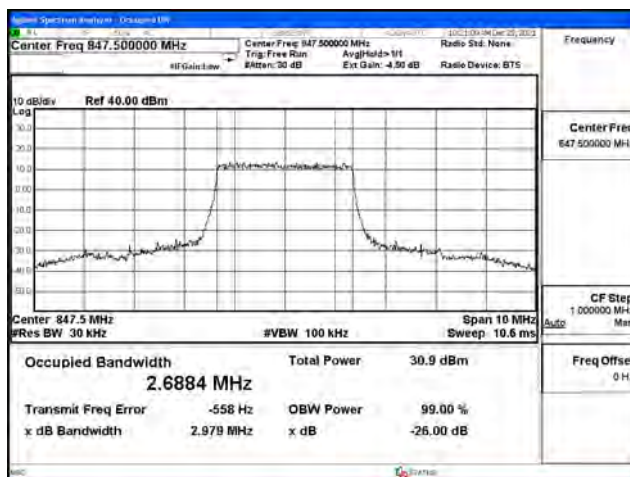
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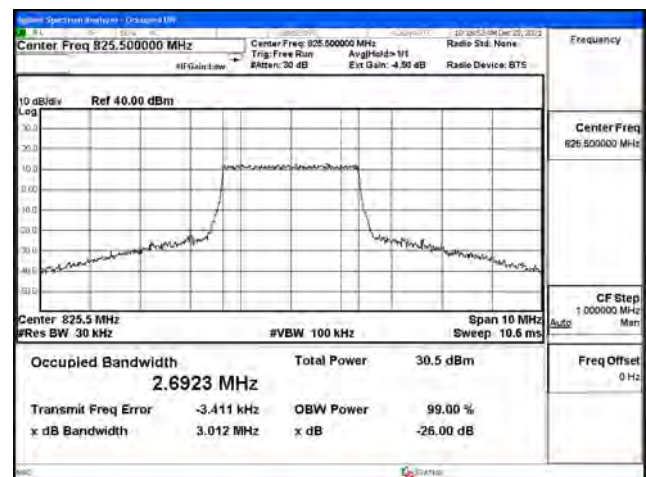
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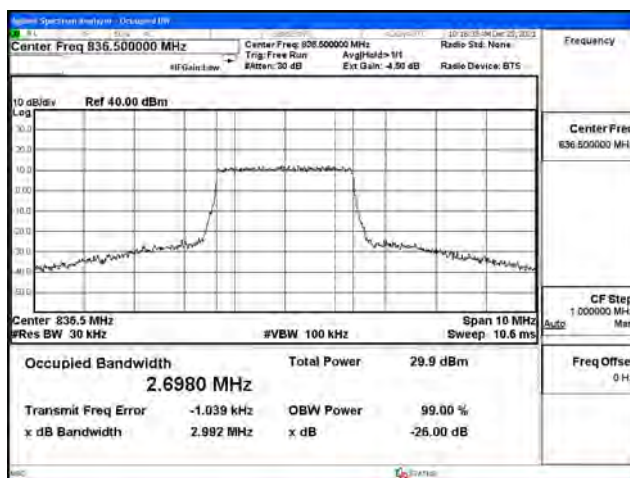
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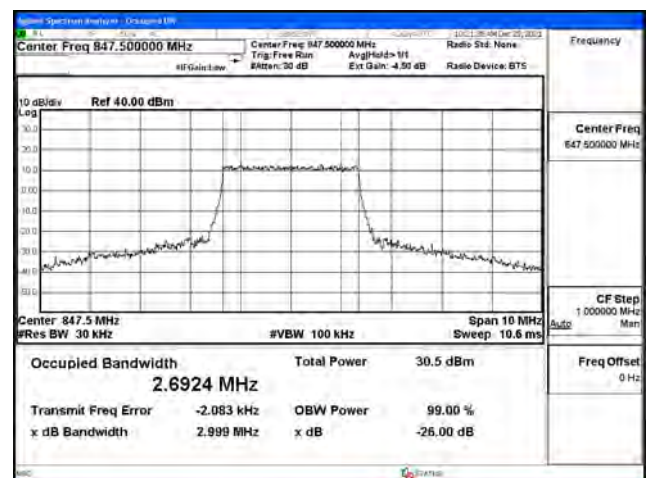
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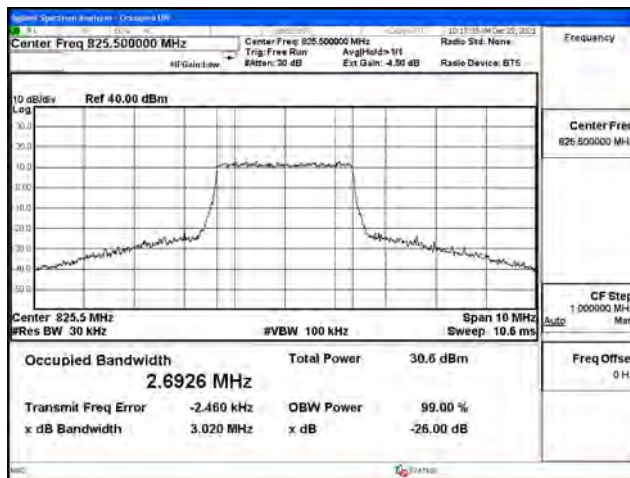
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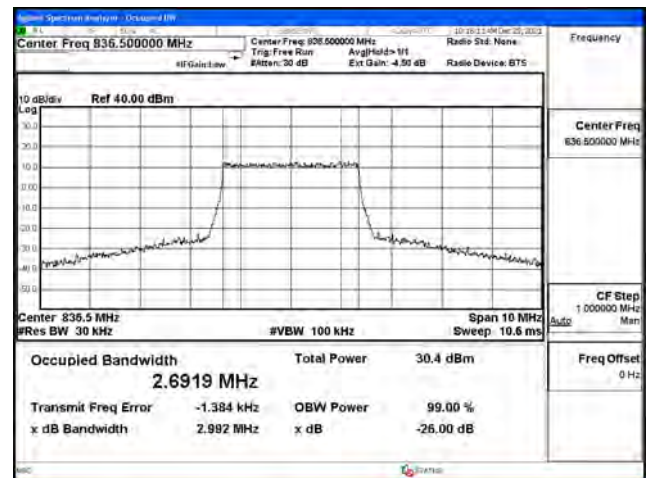
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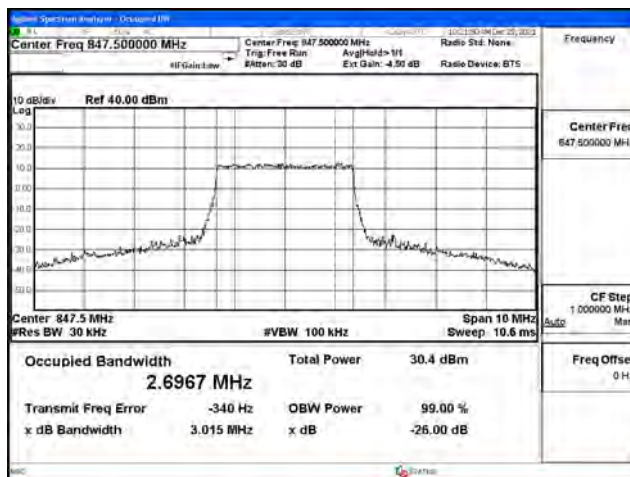
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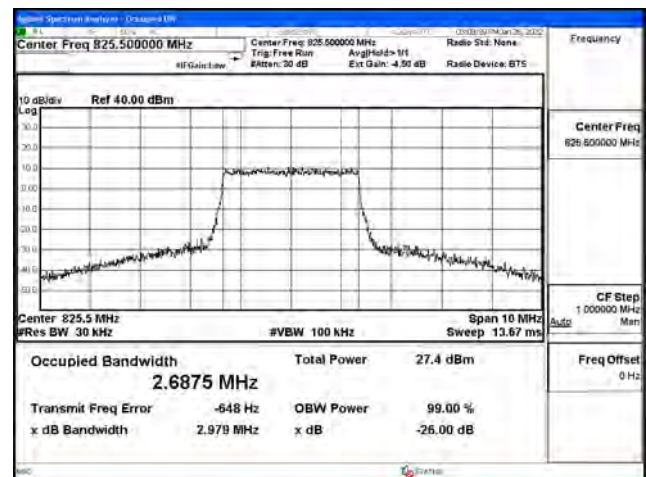
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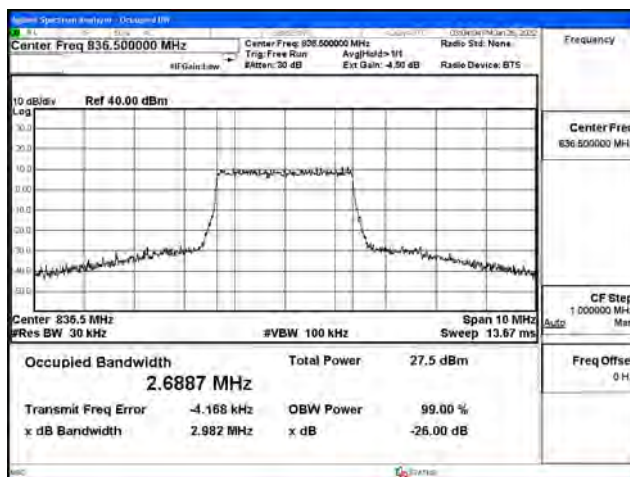
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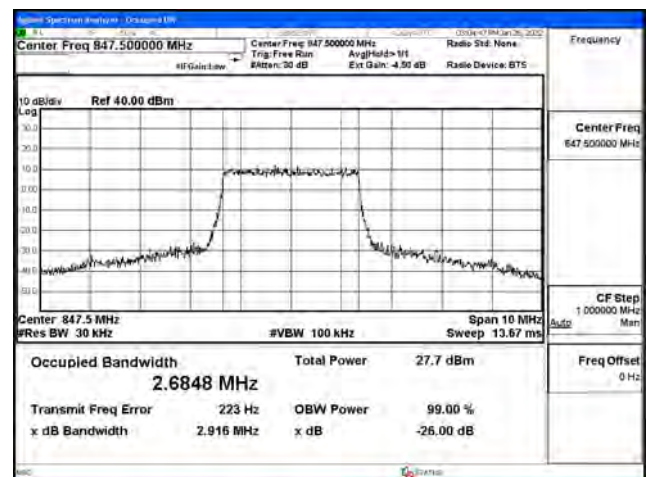
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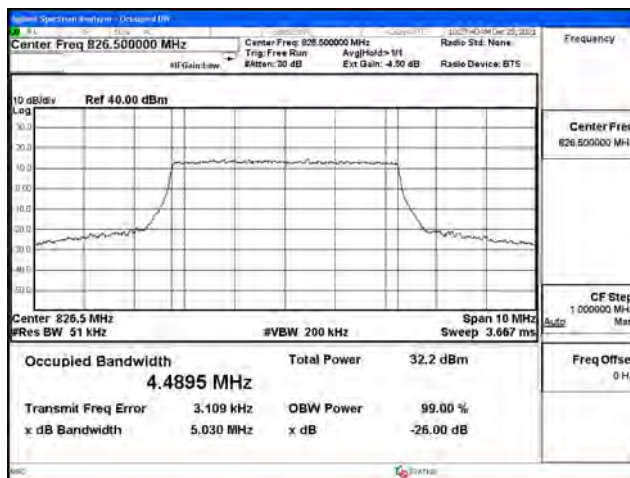
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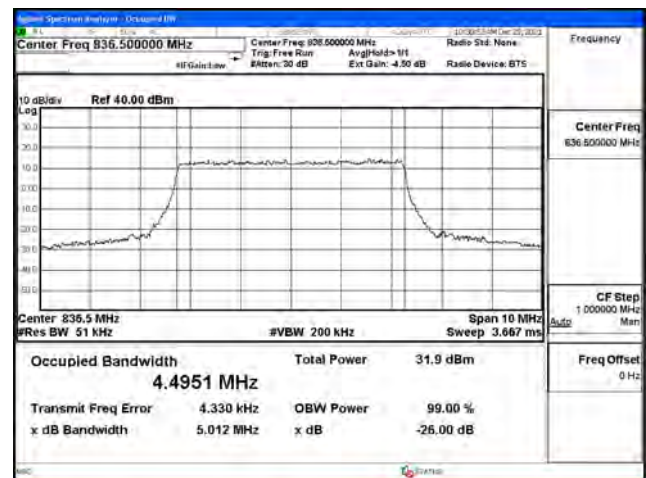
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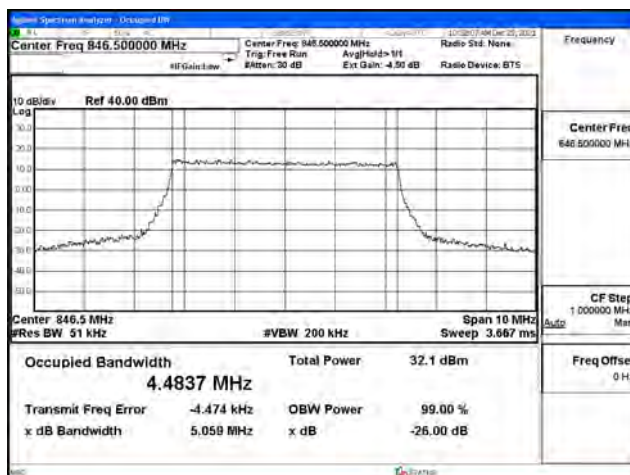
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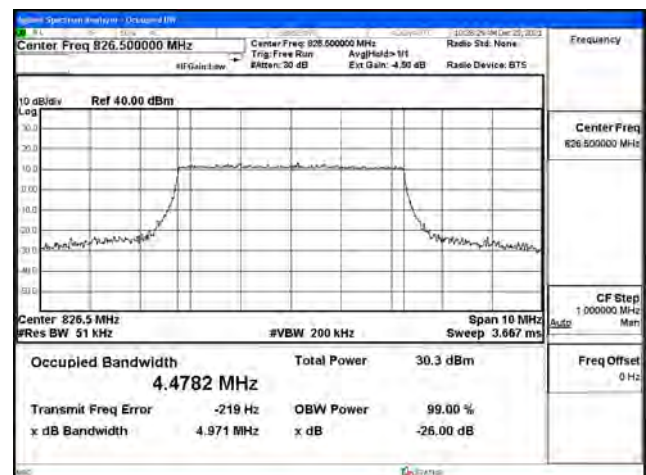
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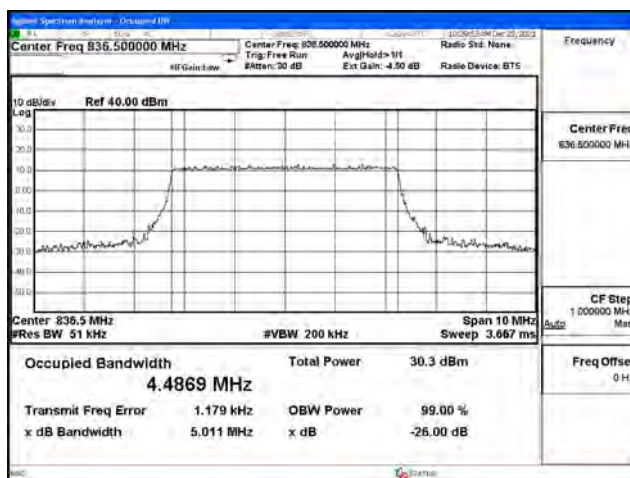
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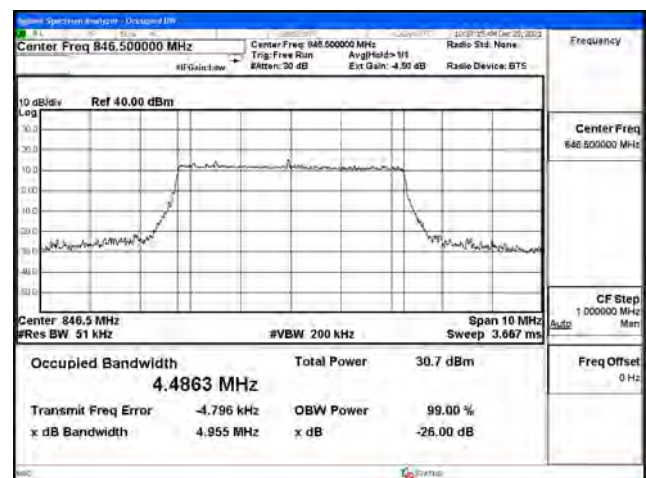
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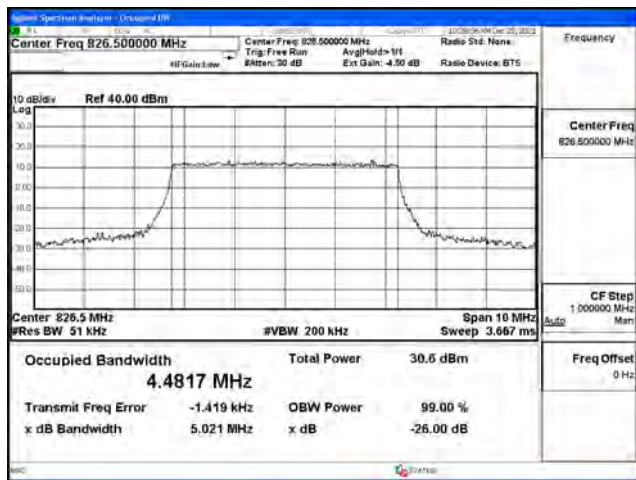
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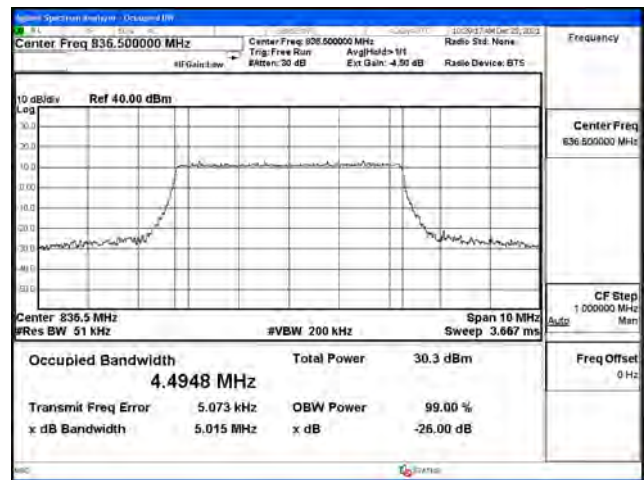
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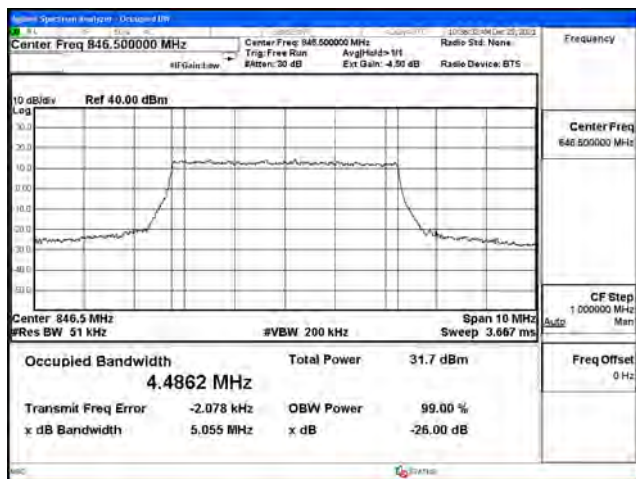
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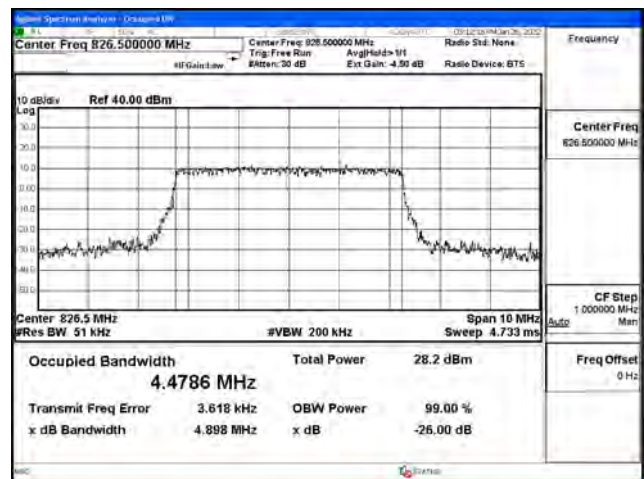
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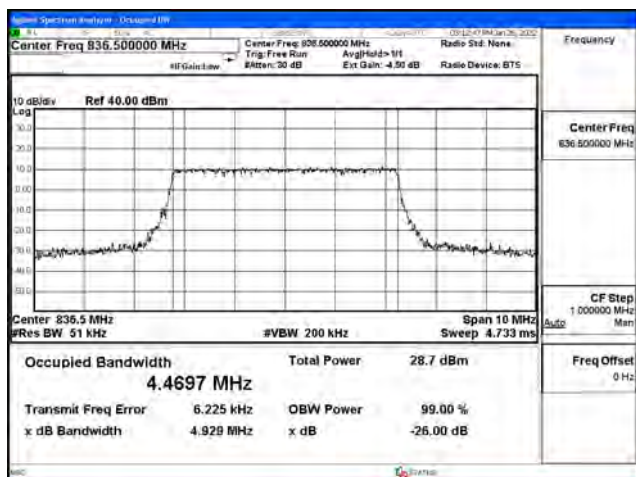
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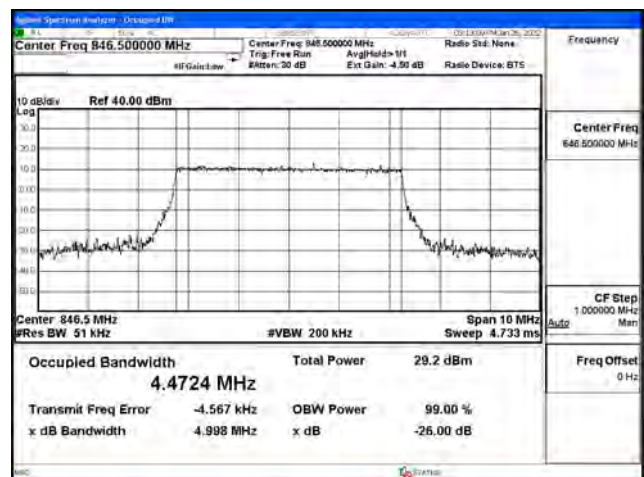
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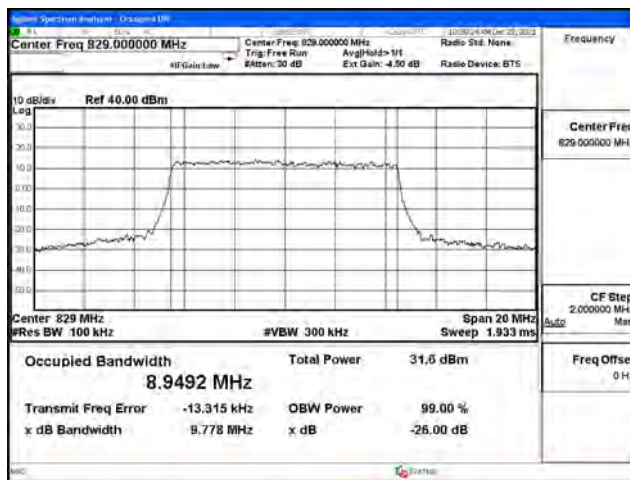
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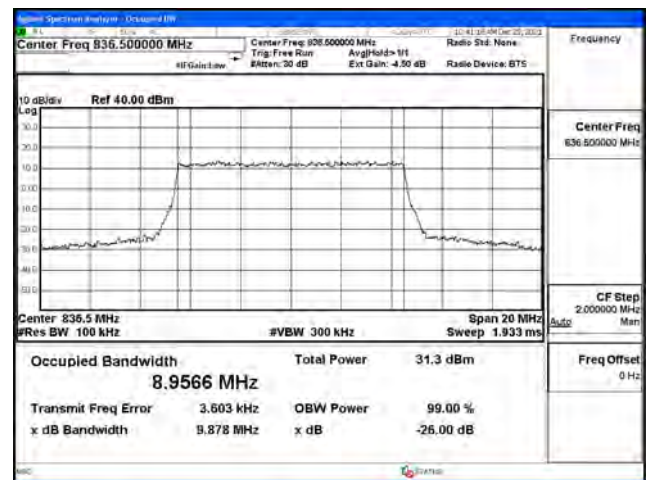
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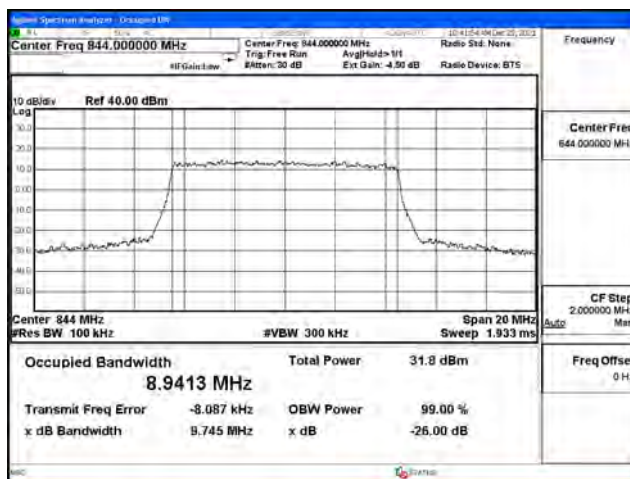
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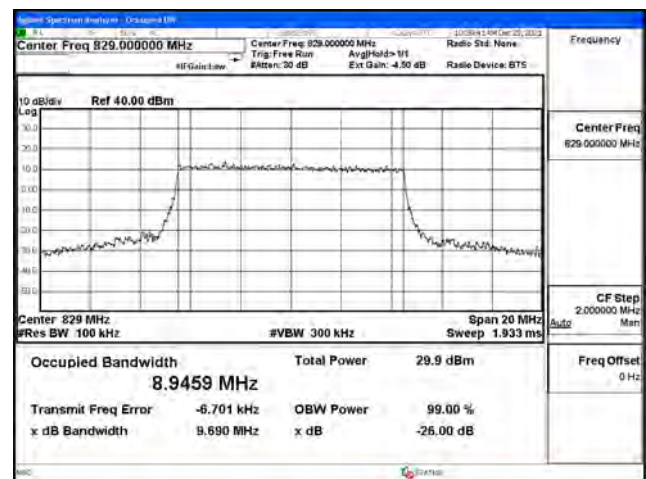
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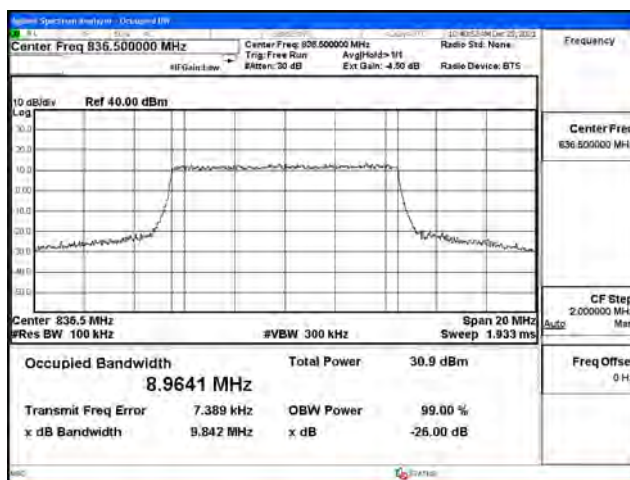
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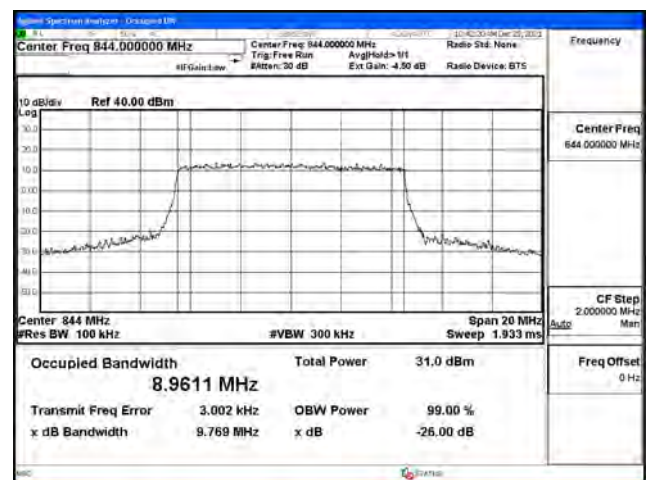
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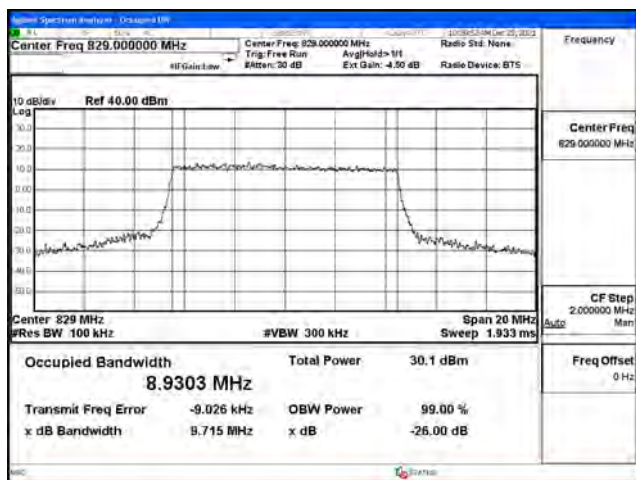
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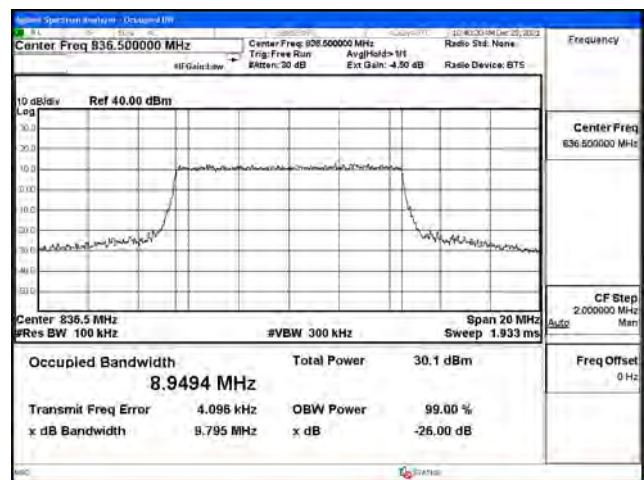
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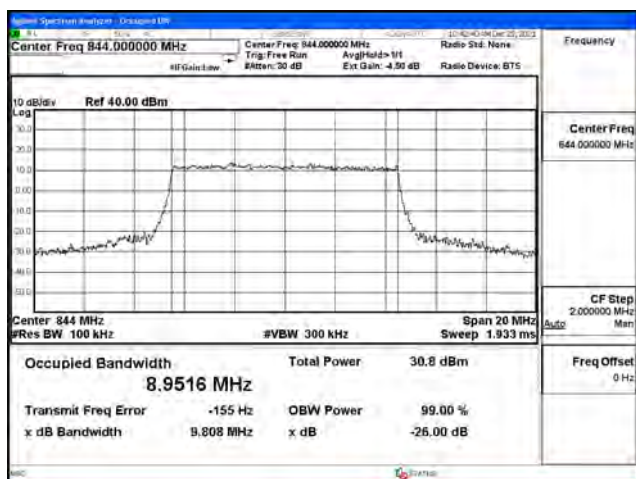
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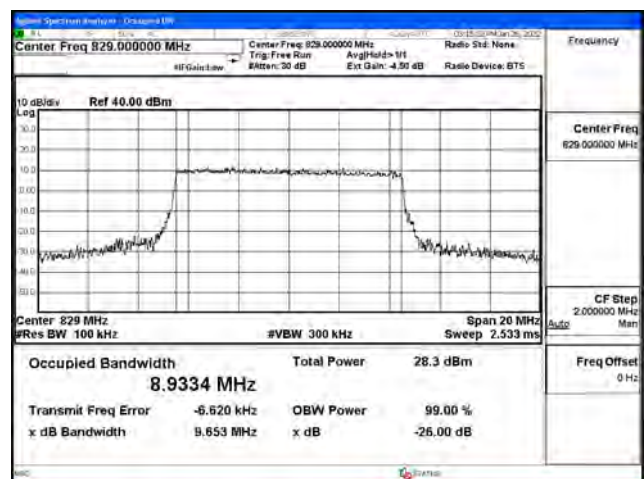
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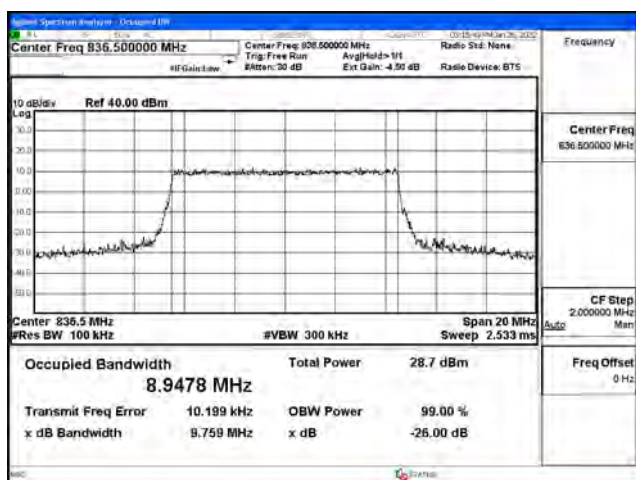
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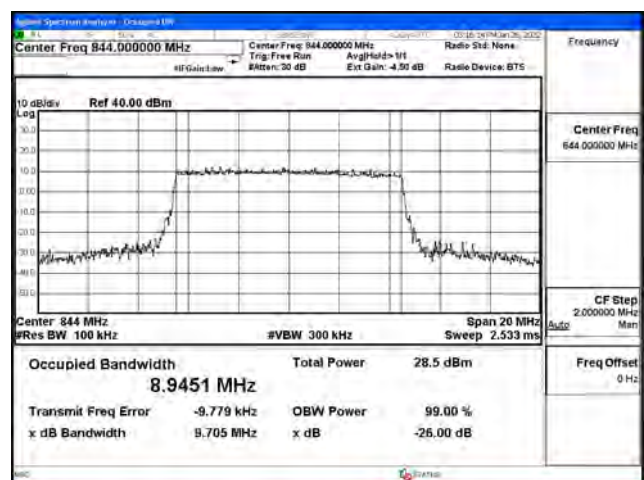
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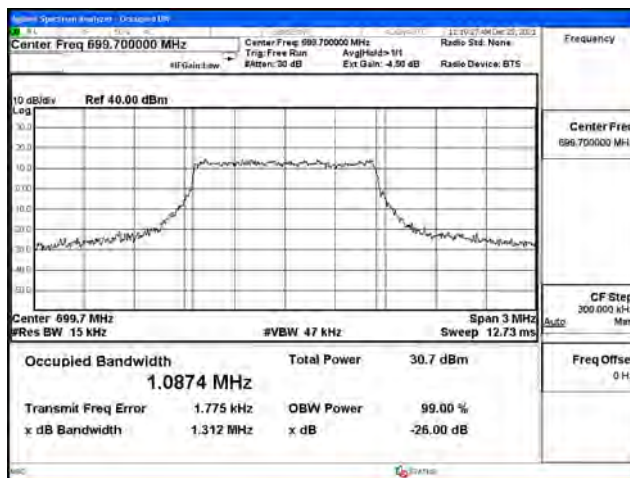


Mode 3: LTE Band 12

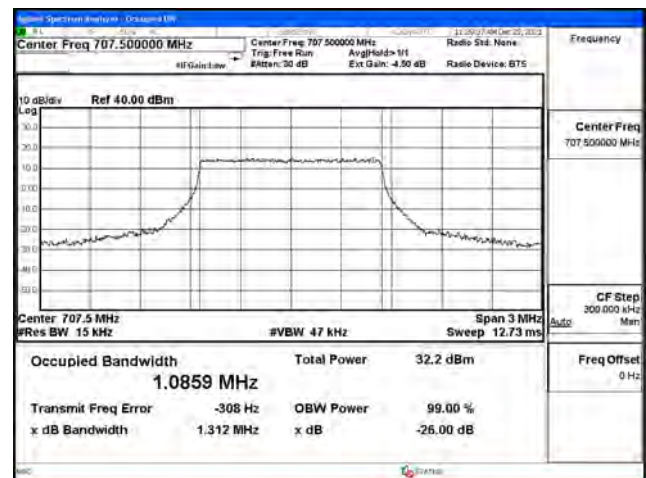
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
1.4	QPSK	23017	699.7	1.312	1.087	N/A
		23097	707.5	1.312	1.086	N/A
		23173	715.3	1.328	1.083	N/A
	16-QAM	23017	699.7	1.324	1.085	N/A
		23097	707.5	1.295	1.084	N/A
		23173	715.3	1.325	1.083	N/A
	64-QAM	23017	699.7	1.309	1.083	N/A
		23097	707.5	1.300	1.084	N/A
		23173	715.3	1.302	1.085	N/A
	256-QAM	23017	699.7	1.285	1.081	N/A
		23097	707.5	1.331	1.078	N/A
		23173	715.3	1.310	1.080	N/A
3	QPSK	23025	700.5	3.016	2.693	N/A
		23095	707.5	3.001	2.700	N/A
		23165	714.5	2.978	2.692	N/A
	16-QAM	23025	700.5	2.994	2.689	N/A
		23095	707.5	2.979	2.692	N/A
		23165	714.5	3.008	2.695	N/A
	64-QAM	23025	700.5	2.984	2.688	N/A
		23095	707.5	2.985	2.687	N/A
		23165	714.5	3.019	2.693	N/A
	256-QAM	23025	700.5	2.923	2.682	N/A
		23095	707.5	2.942	2.689	N/A
		23165	714.5	2.977	2.682	N/A
5	QPSK	23035	710.5	5.037	4.485	N/A
		23095	707.5	5.019	4.473	N/A
		23155	713.5	5.080	4.495	N/A
	16-QAM	23035	710.5	5.056	4.478	N/A
		23095	707.5	5.058	4.483	N/A
		23155	713.5	4.996	4.482	N/A
	64-QAM	23035	710.5	5.038	4.477	N/A
		23095	707.5	4.961	4.482	N/A
		23155	713.5	5.068	4.475	N/A
	256-QAM	23035	710.5	4.979	4.467	N/A
		23095	707.5	5.032	4.476	N/A
		23155	713.5	5.037	4.475	N/A

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
10	QPSK	23060	704.0	9.833	8.938	N/A
		23095	707.5	9.927	8.971	N/A
		23130	711.0	9.815	8.947	N/A
	16-QAM	23060	704.0	9.720	8.943	N/A
		23095	707.5	9.793	8.955	N/A
		23130	711.0	9.899	8.961	N/A
	64-QAM	23060	704.0	9.655	8.928	N/A
		23095	707.5	9.760	8.954	N/A
		23130	711.0	9.849	8.968	N/A
	256-QAM	23060	704.0	9.649	8.922	N/A
		23095	707.5	9.563	8.929	N/A
		23130	711.0	9.741	8.942	N/A

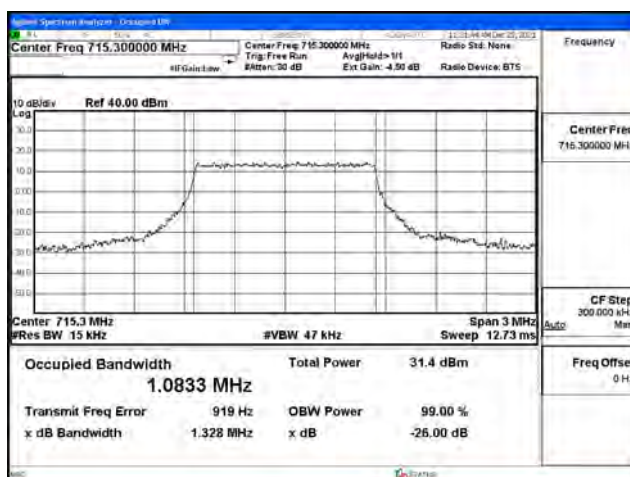
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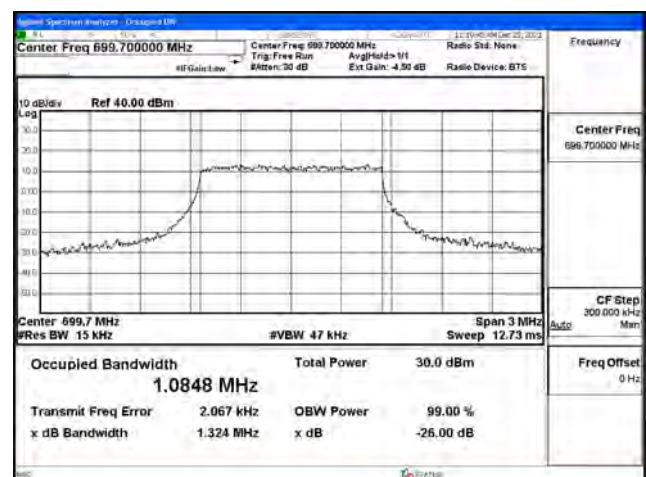
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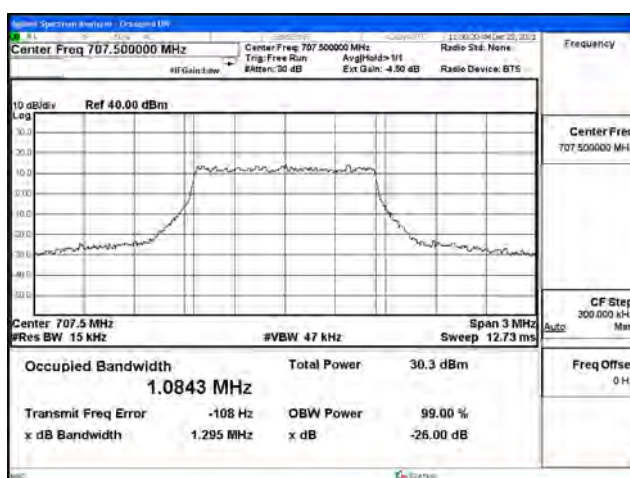
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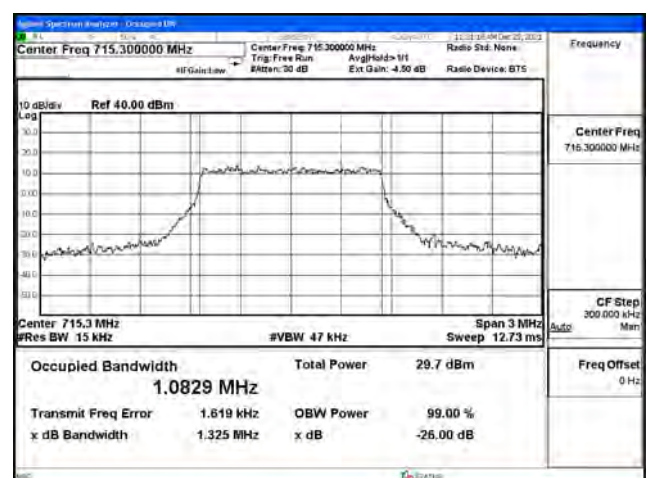
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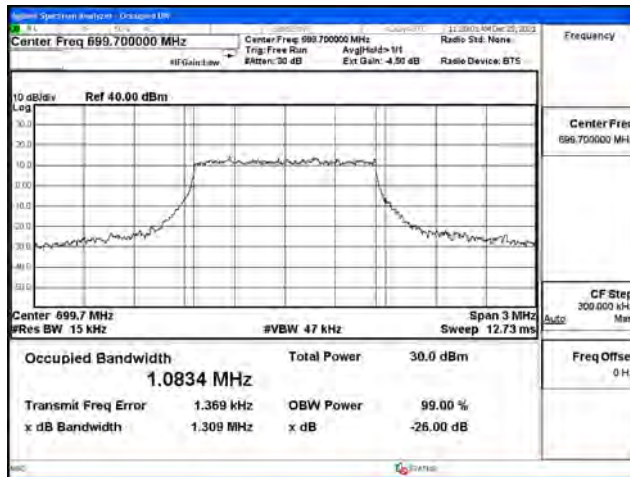
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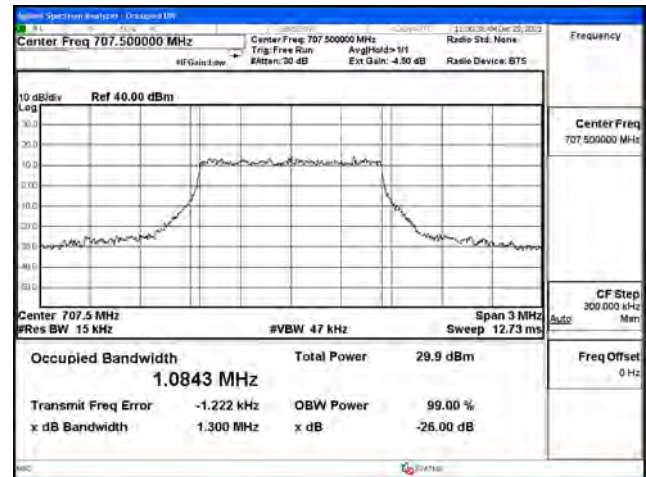
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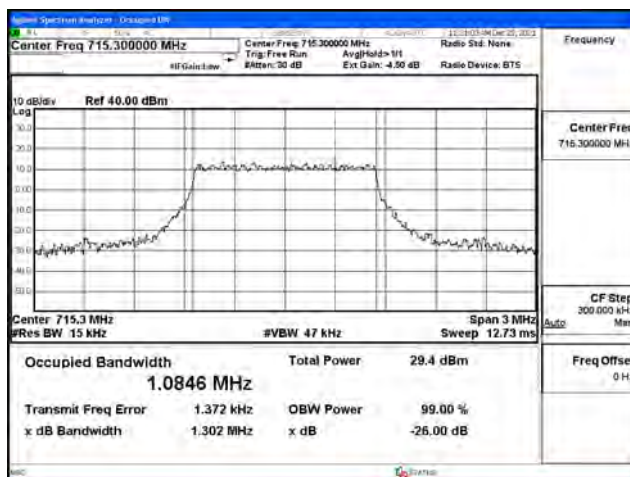
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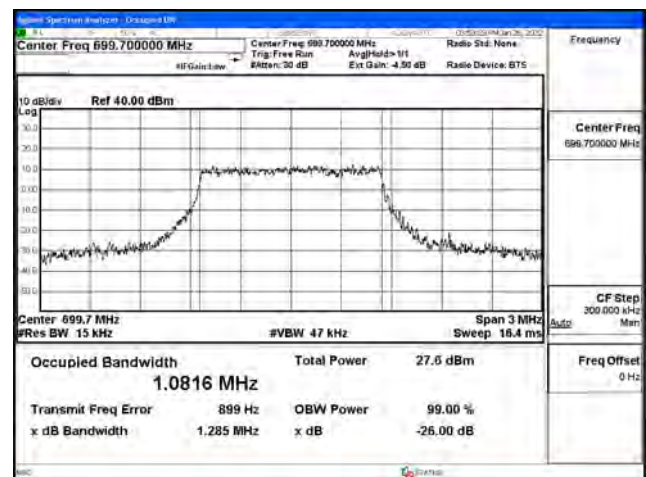
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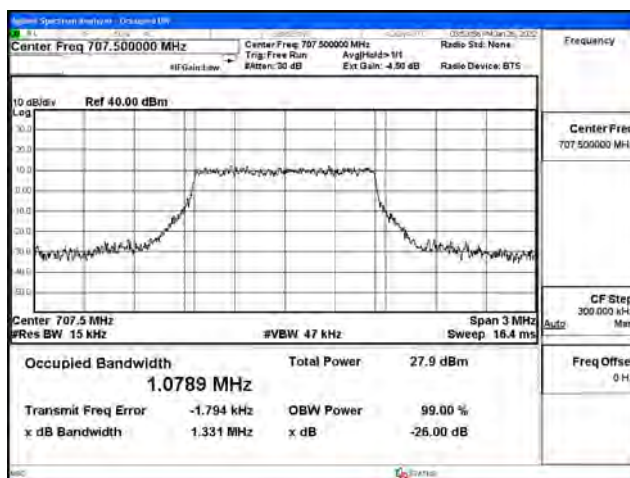
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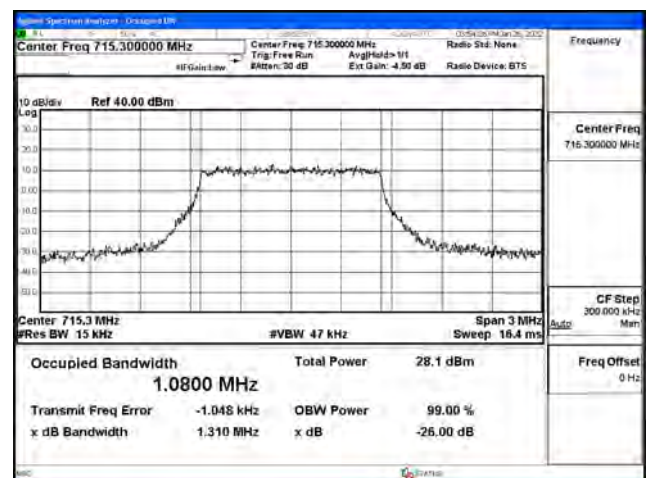
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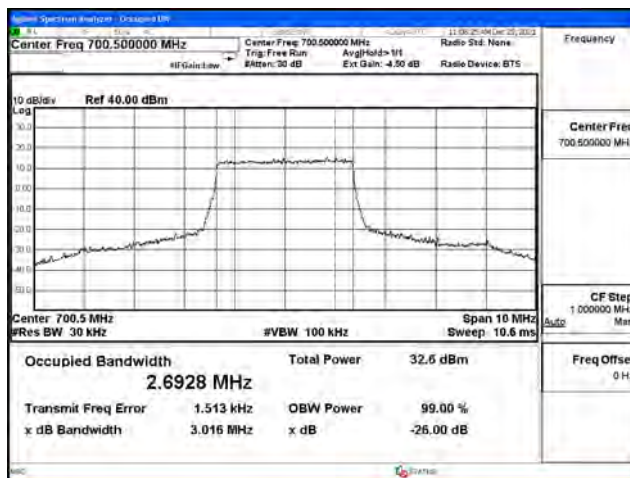
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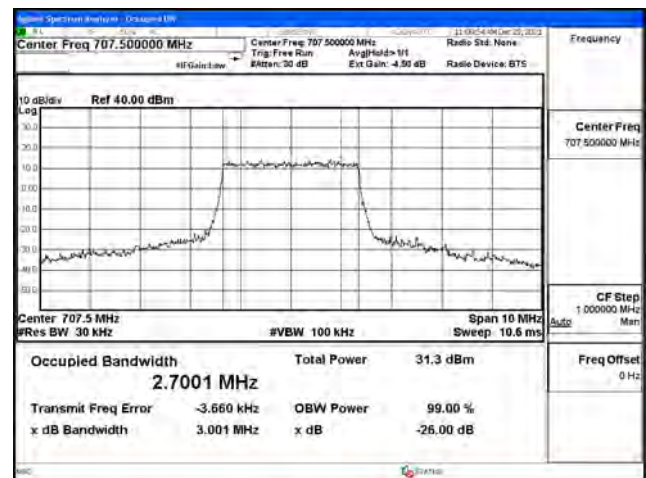
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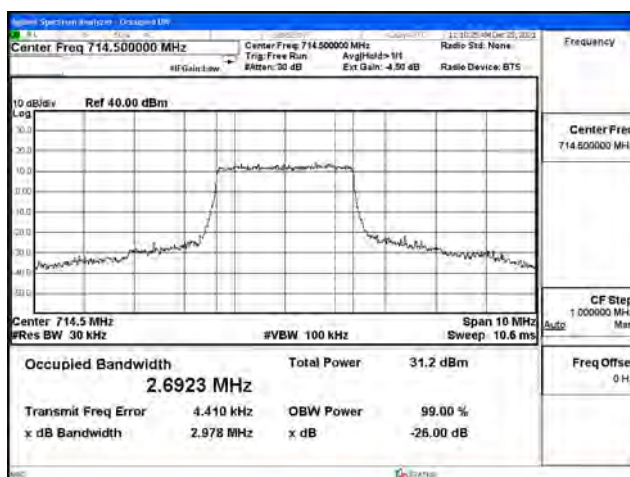
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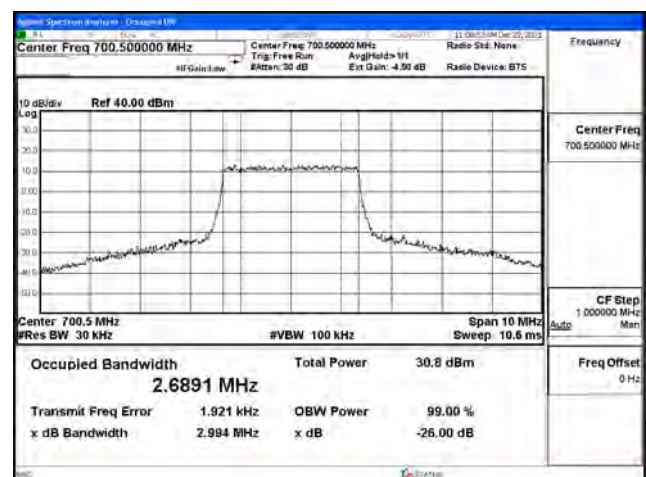
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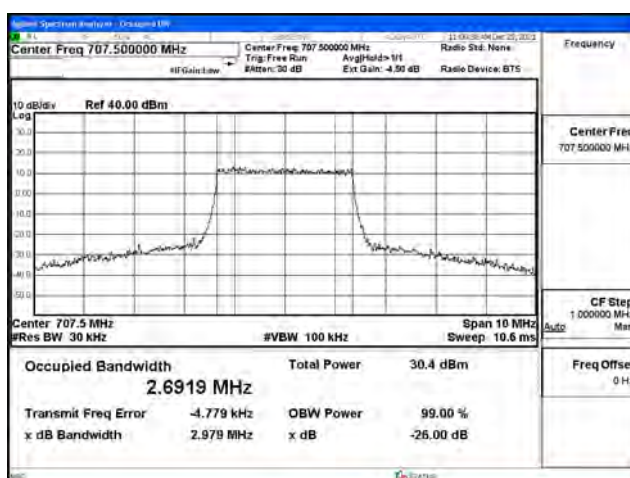
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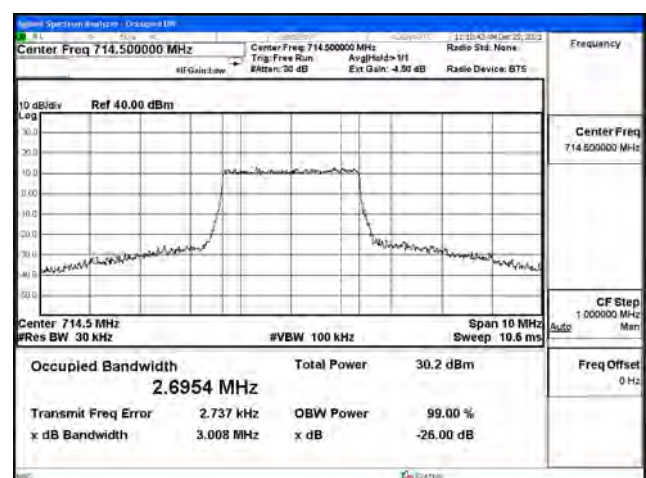
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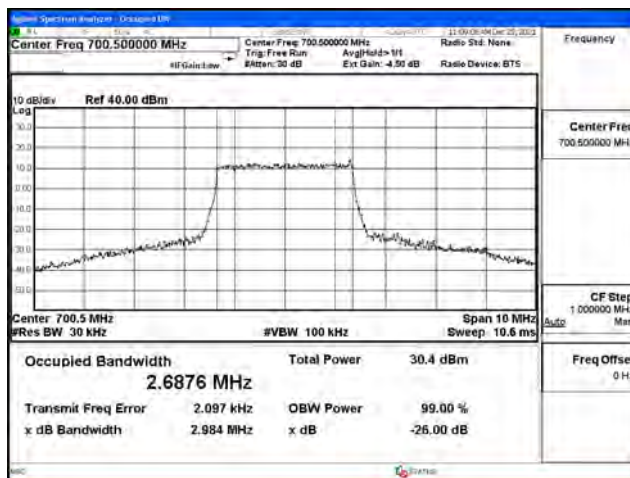
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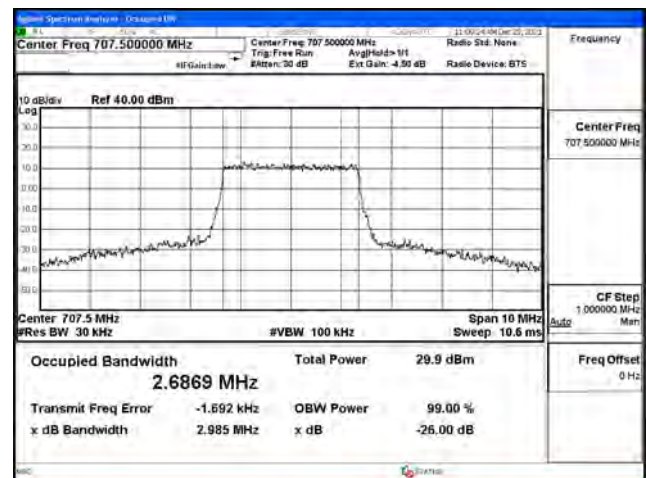
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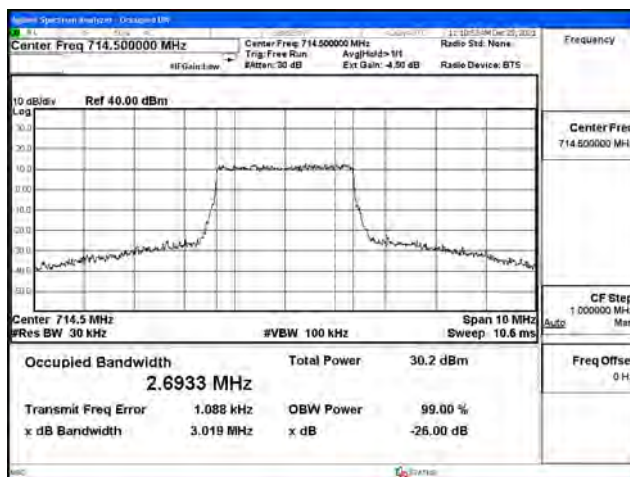
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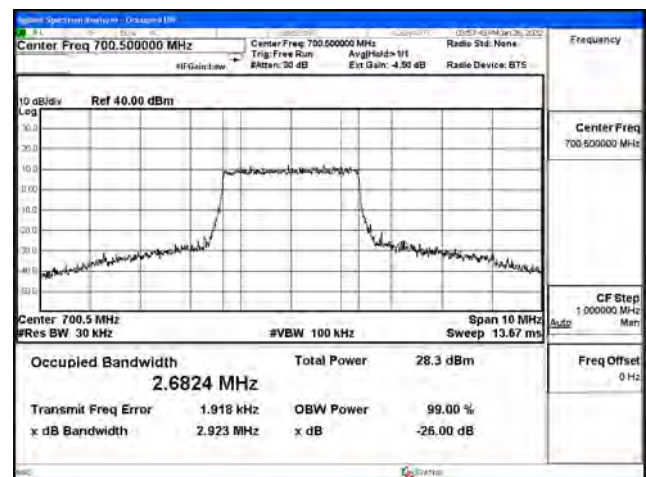
64QAM_CH23095_3M_15RB0



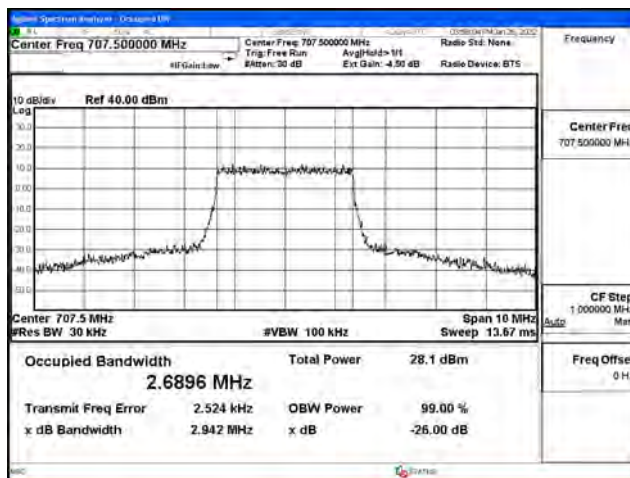
64QAM_CH23165_3M_15RB0



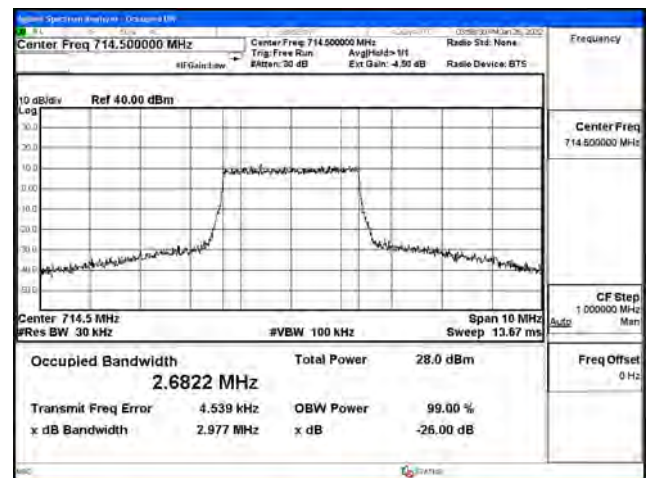
256QAM_CH23025_3M_15RB0



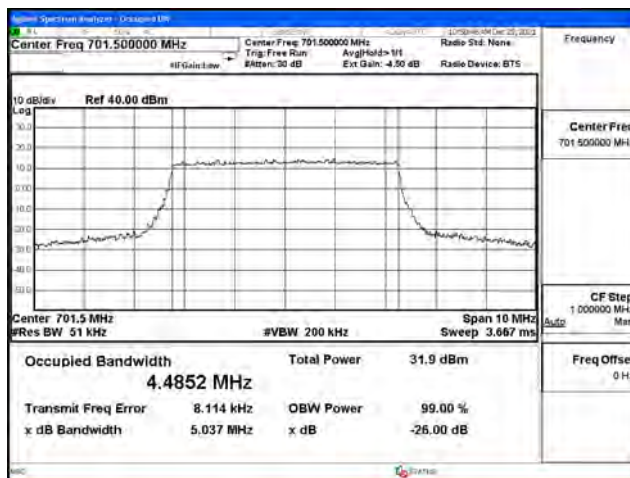
256QAM_CH23095_3M_15RB0



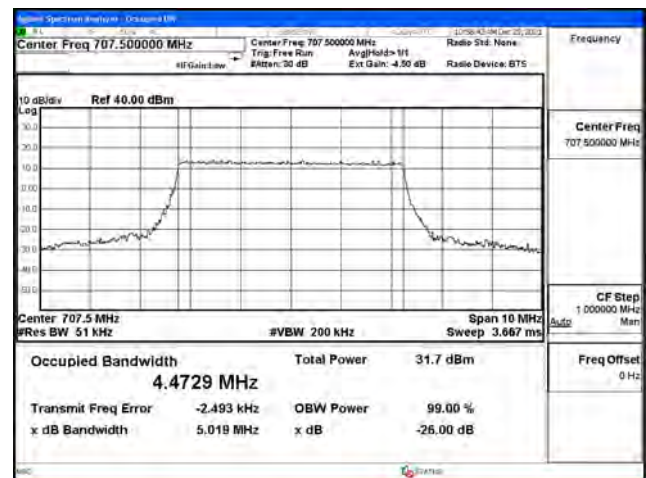
256QAM_CH23165_3M_15RB0



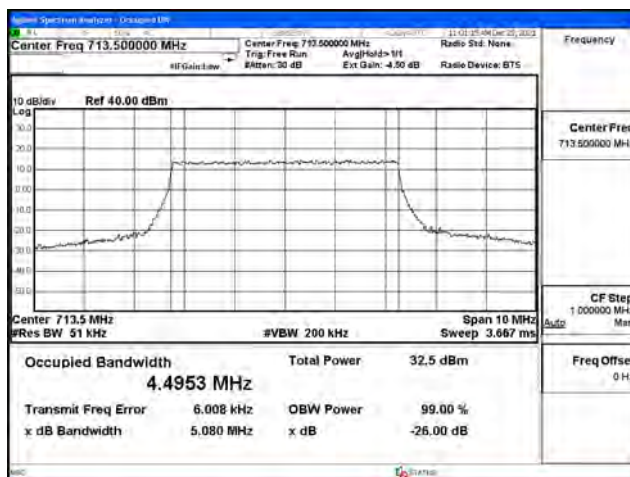
QPSK_CH23035_5M_25RB0



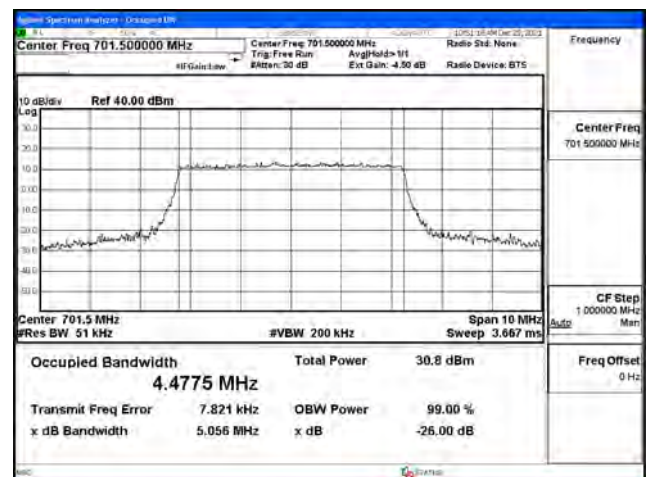
QPSK_CH23095_5M_25RB0



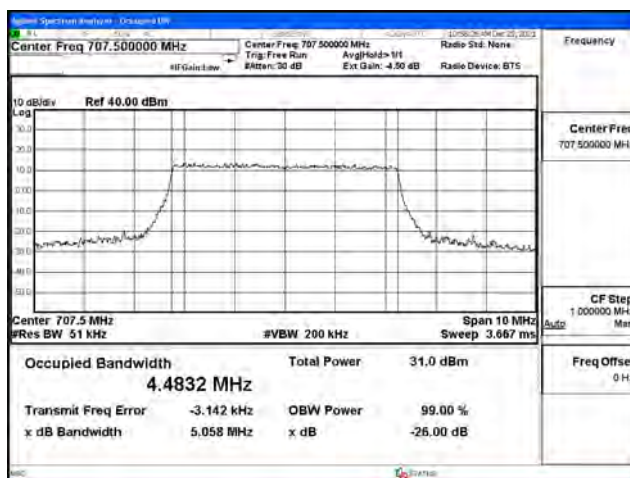
QPSK_CH23155_5M_25RB0



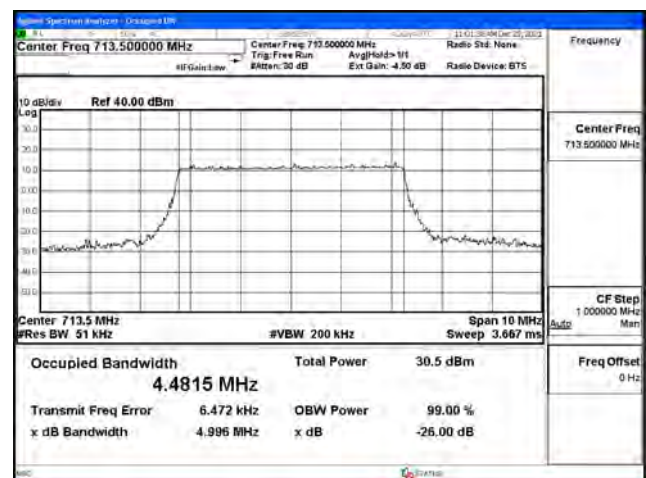
16QAM_CH23035_5M_25RB0



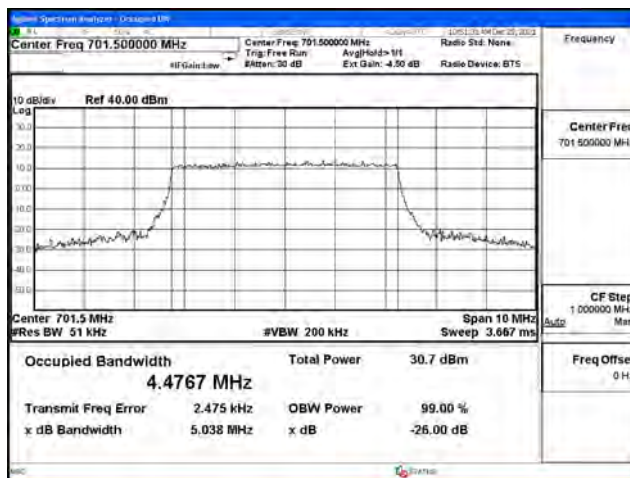
16QAM_CH23095_5M_25RB0



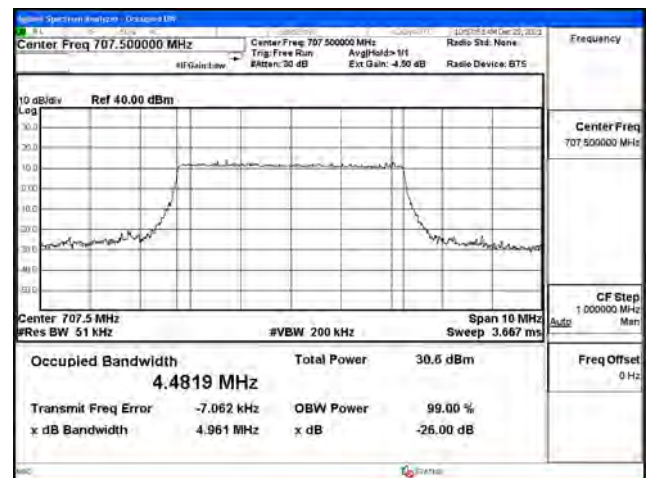
16QAM_CH23155_5M_25RB0



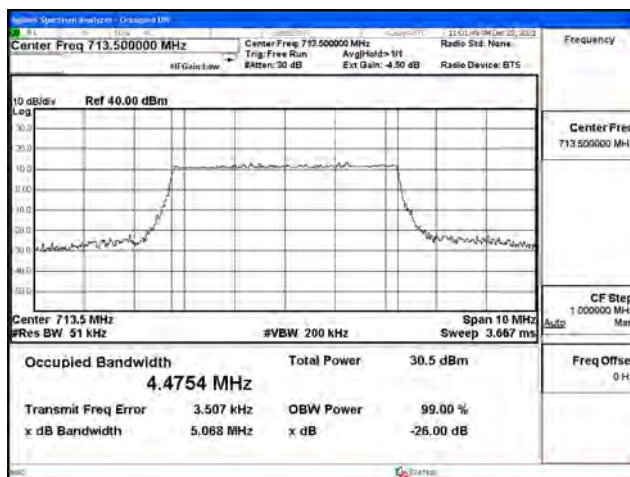
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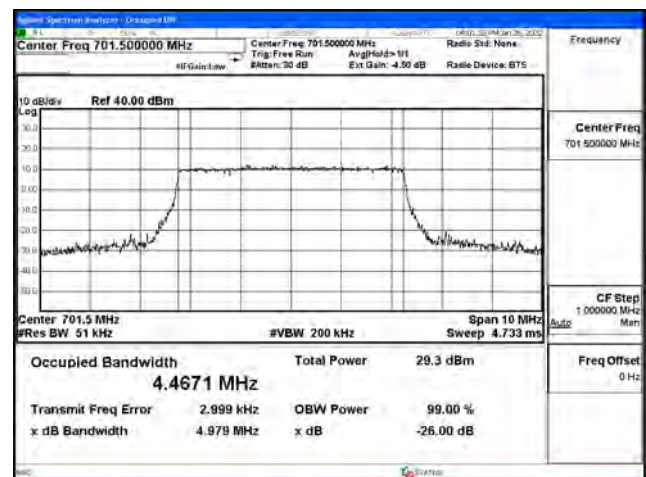
64QAM_CH23095_5M_25RB0



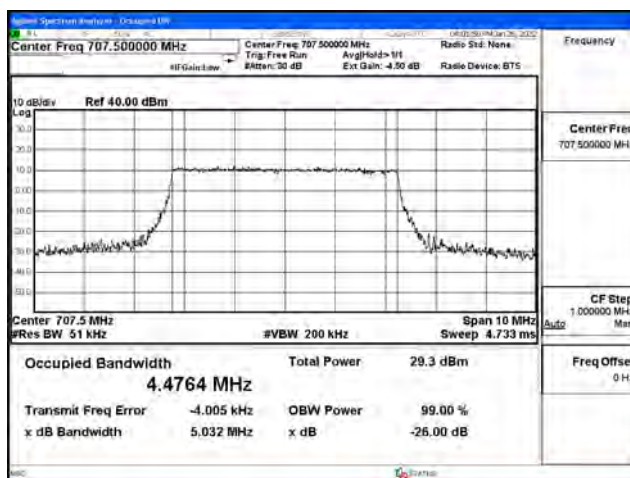
64QAM_CH23155_5M_25RB0



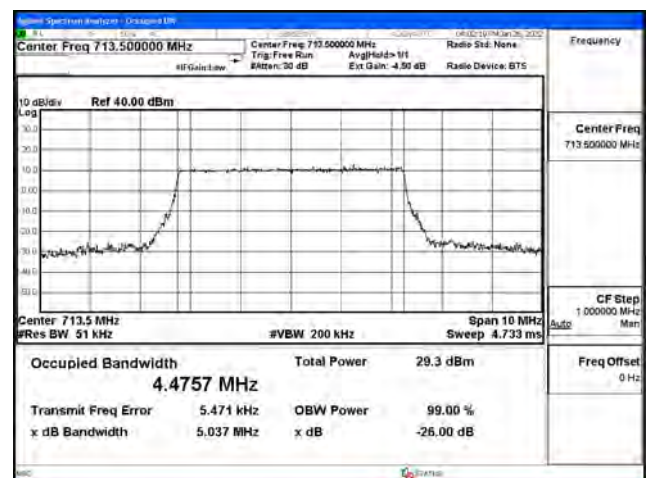
256QAM_CH23035_5M_25RB0



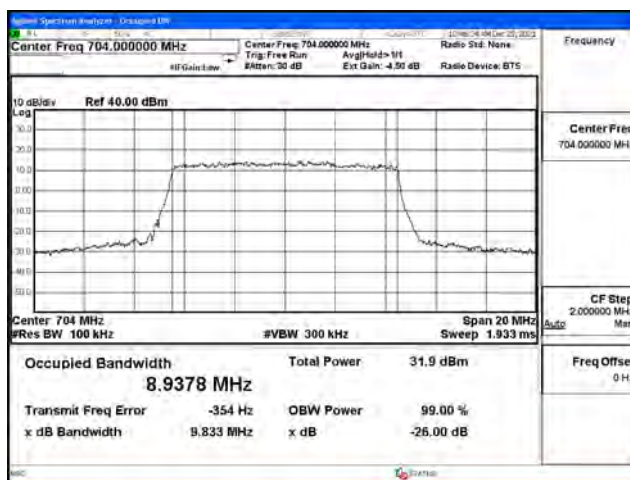
256QAM_CH23095_5M_25RB0



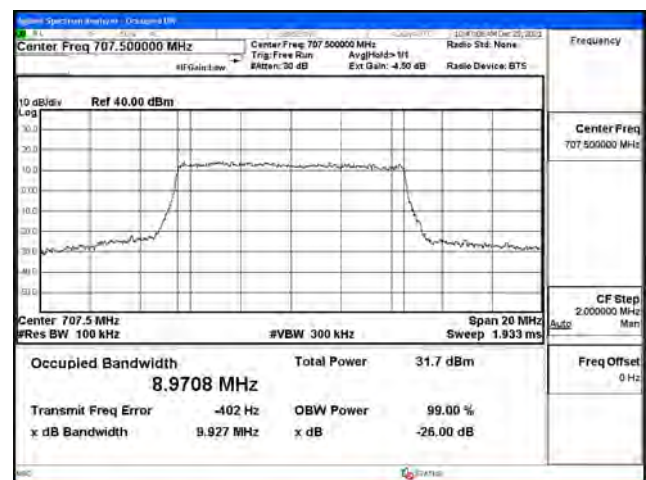
256QAM_CH23155_5M_25RB0



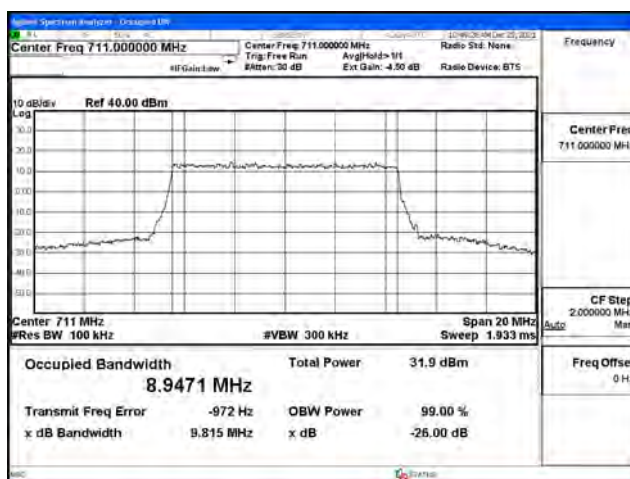
QPSK_CH23060_10M_50RB0



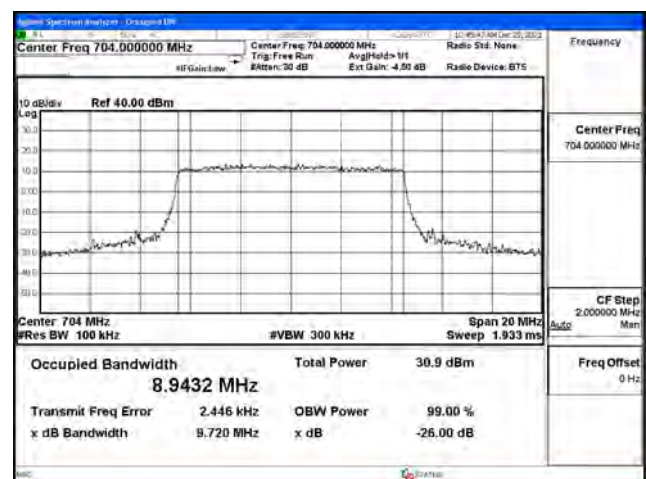
QPSK_CH23095_10M_50RB0



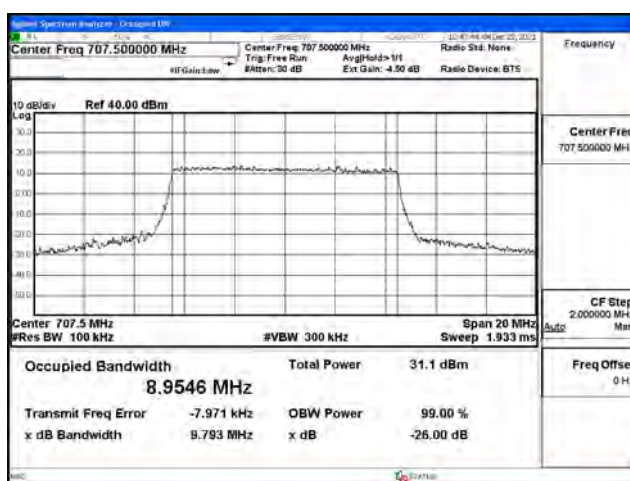
QPSK_CH23130_10M_50RB0



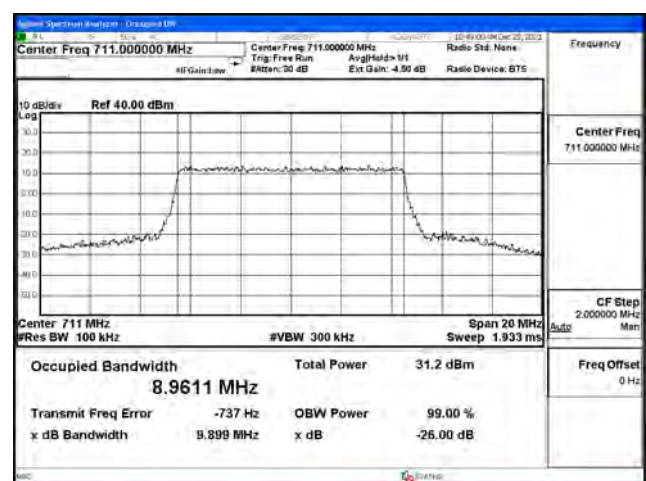
16QAM_CH23060_10M_50RB0



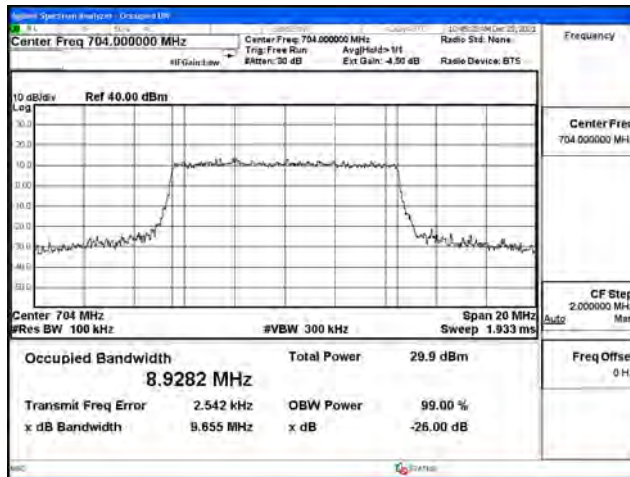
16QAM_CH23095_10M_50RB0



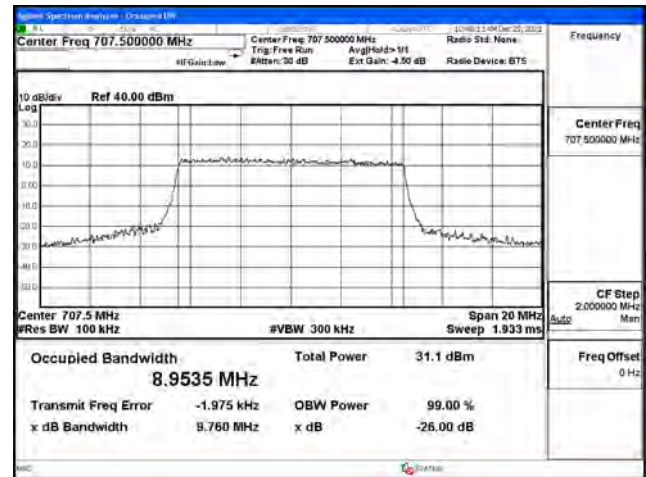
16QAM_CH23130_10M_50RB0



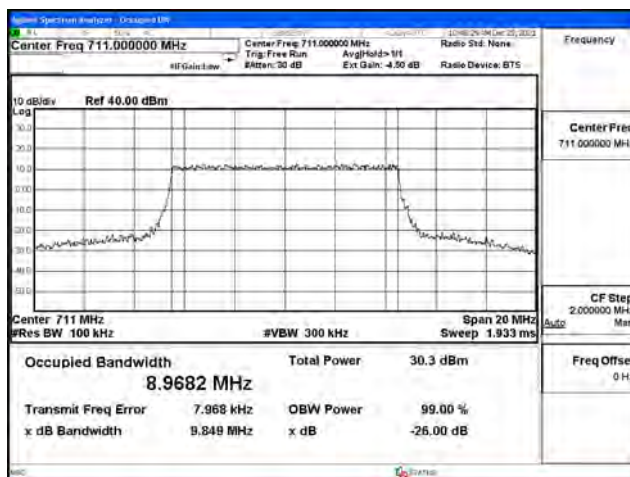
64QAM_CH23060_10M_50RB0



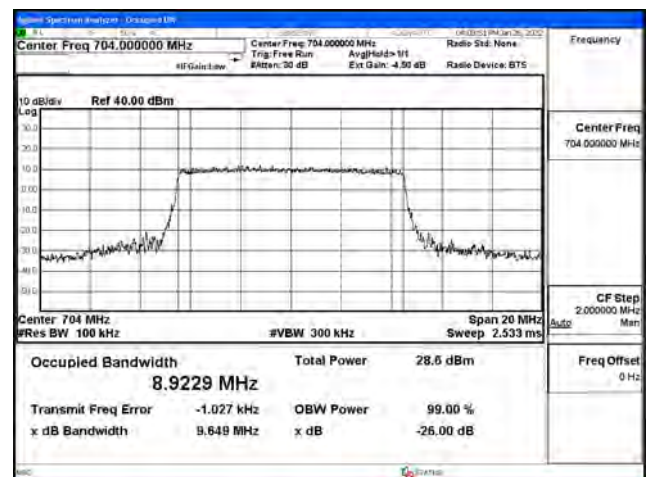
64QAM_CH23095_10M_50RB0



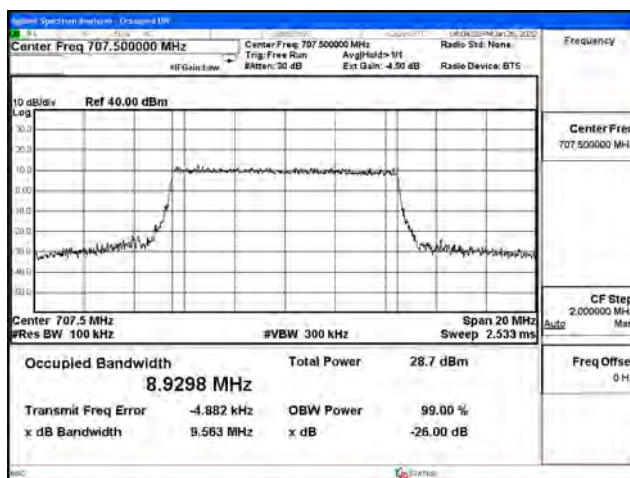
64QAM_CH23130_10M_50RB0



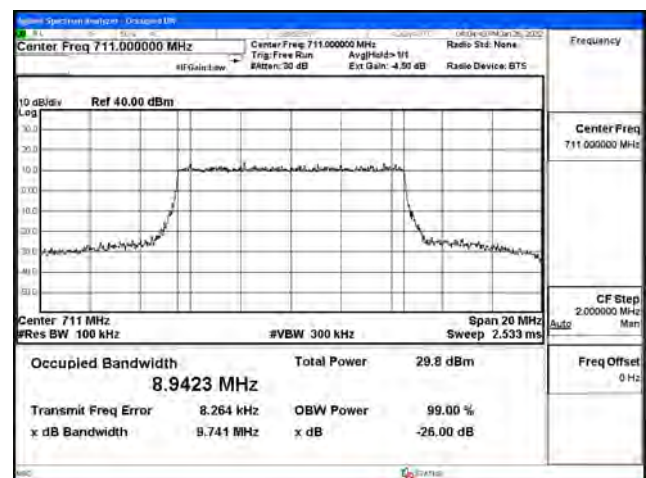
256QAM_CH23060_10M_50RB0



256QAM_CH23095_10M_50RB0



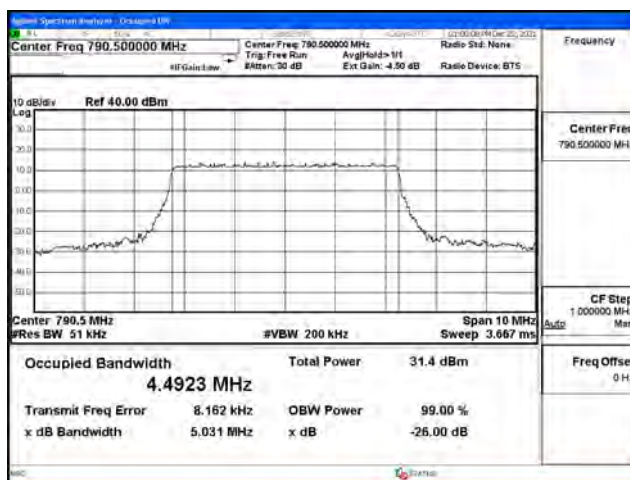
256QAM_CH23130_10M_50RB0



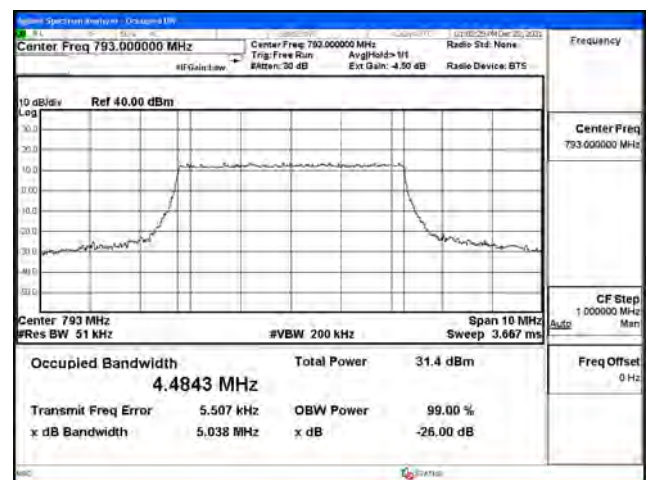
Mode 4: LTE Band 14

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
5	QPSK	23305	790.5	5.031	4.492	N/A
		23330	793	5.038	4.484	N/A
		23355	795.5	5.042	4.482	N/A
	16-QAM	23305	790.5	5.033	4.487	N/A
		23330	793	5.033	4.480	N/A
		23355	795.5	5.070	4.490	N/A
	64-QAM	23305	790.5	5.042	4.490	N/A
		23330	793	5.051	4.486	N/A
		23355	795.5	4.982	4.489	N/A
	256QAM	23305	790.5	5.014	4.468	N/A
		23330	793	4.997	4.465	N/A
		23355	795.5	5.019	4.465	N/A
10	QPSK	23330	793	9.829	8.948	N/A
	16-QAM	23330	793	9.754	8.960	N/A
	64-QAM	23330	793	9.729	8.936	N/A
	256-QAM	23330	793	9.805	8.937	N/A

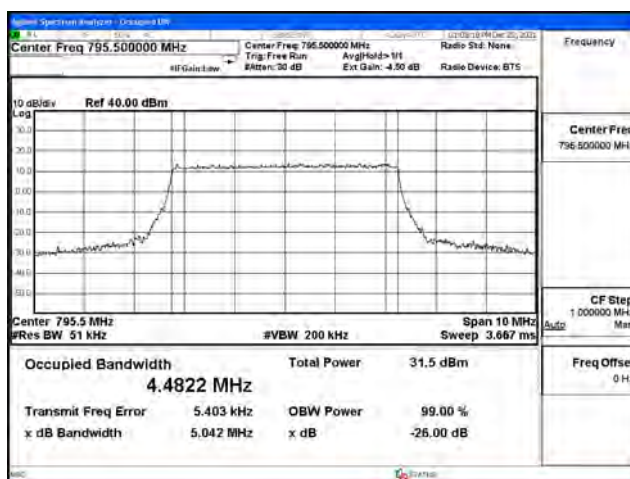
QPSK_CH23305_5M_25RB0



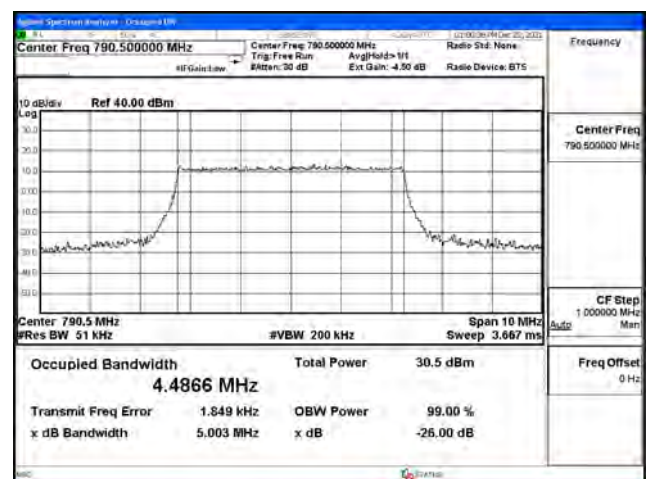
QPSK_CH23330_5M_25RB0



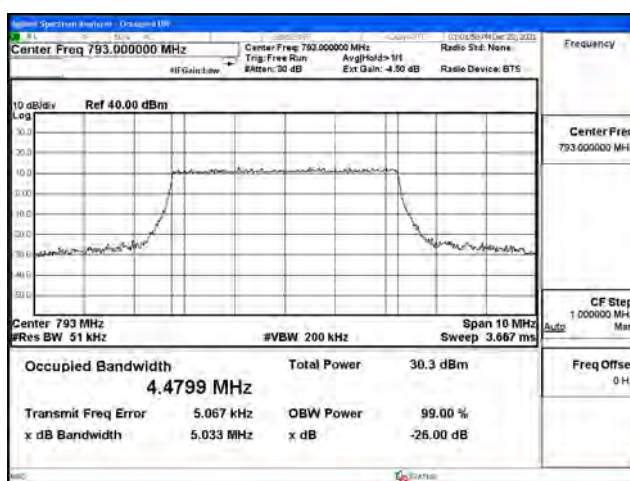
QPSK_CH23355_5M_25RB0



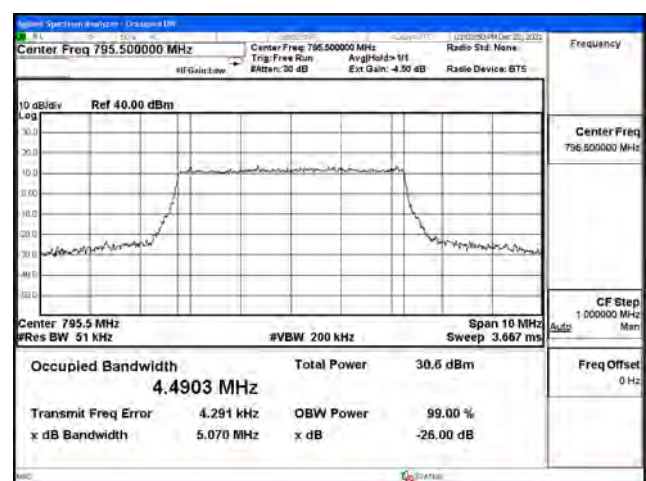
16QAM_CH23305_5M_25RB0



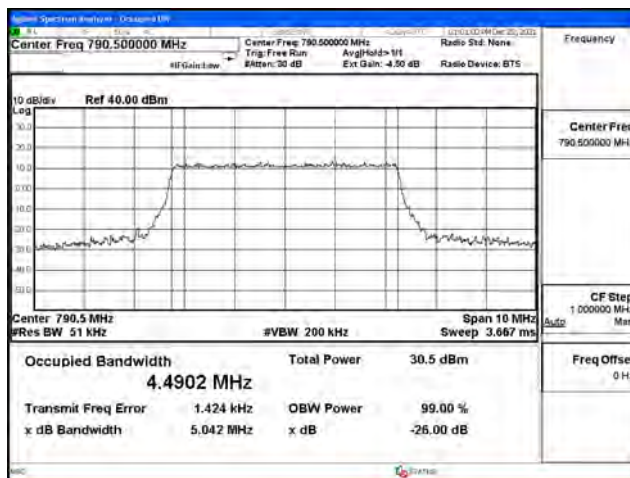
16QAM_CH23330_5M_25RB0



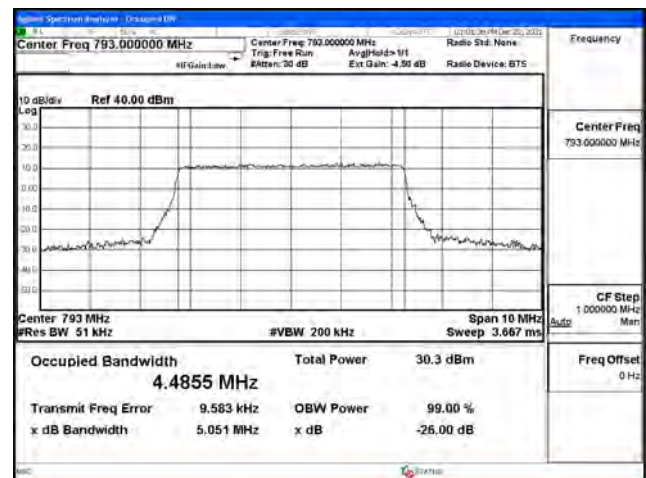
16QAM_CH23355_5M_25RB0



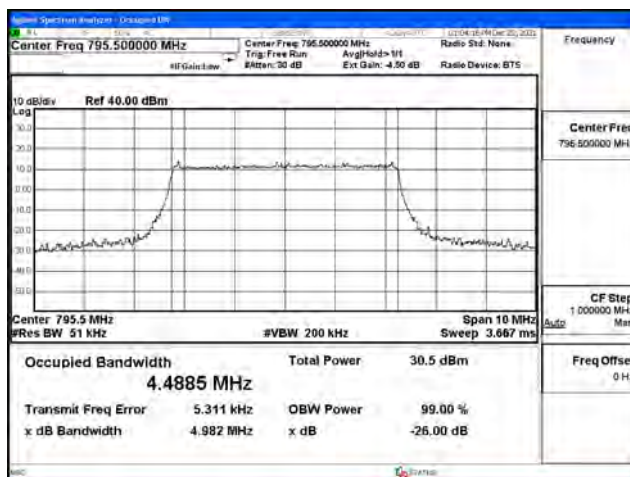
64QAM_CH23305_5M_25RB0



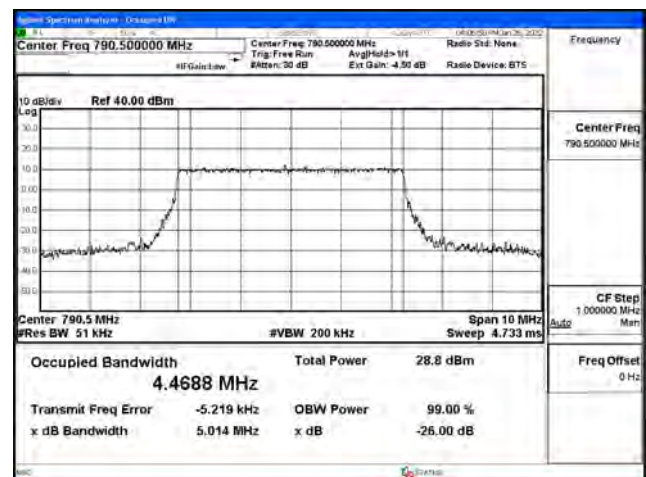
64QAM_CH23330_5M_25RB0



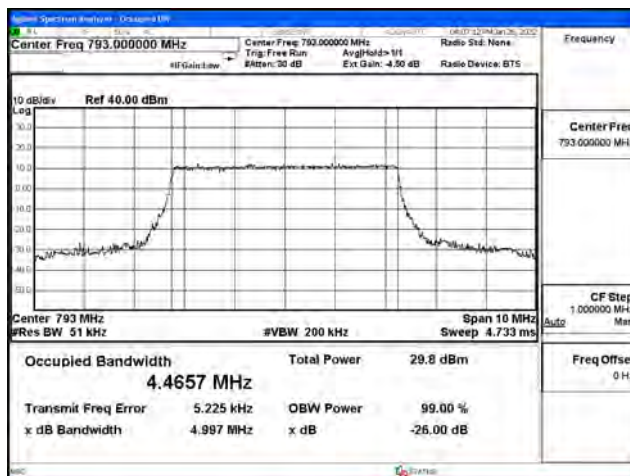
64QAM_CH23355_5M_25RB0



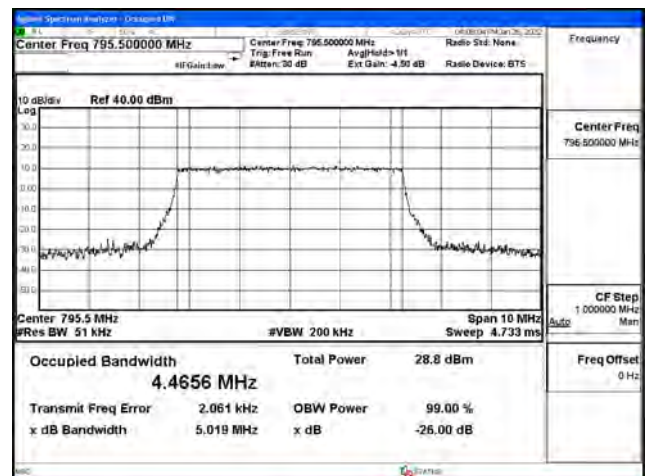
256QAM_CH23305_5M_25RB0



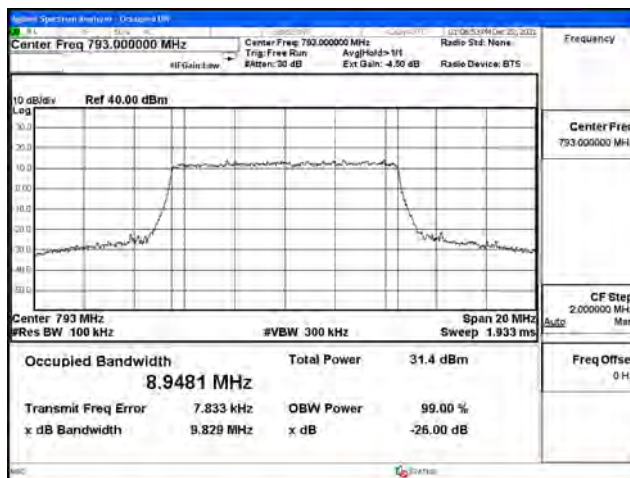
256QAM_CH23330_5M_25RB0



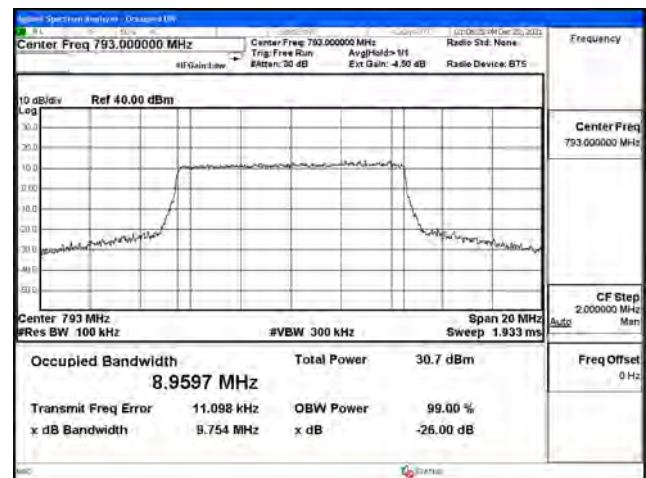
256QAM_CH23355_5M_25RB0



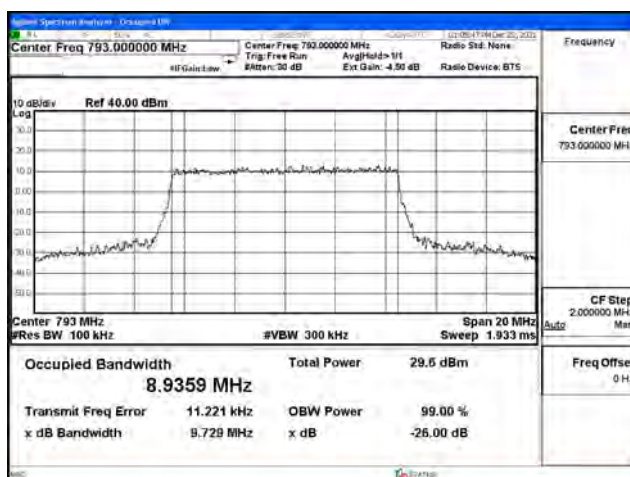
QPSK_CH23330_10M_50RB0



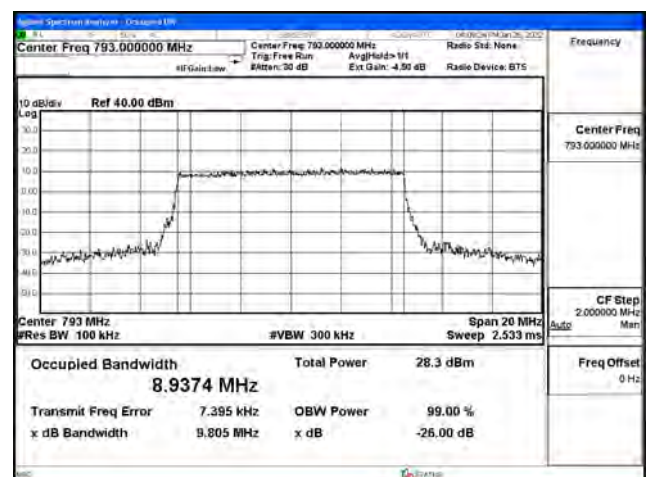
16QAM_CH23330_10M_50RB0



64QAM_CH23330_10M_50RB0



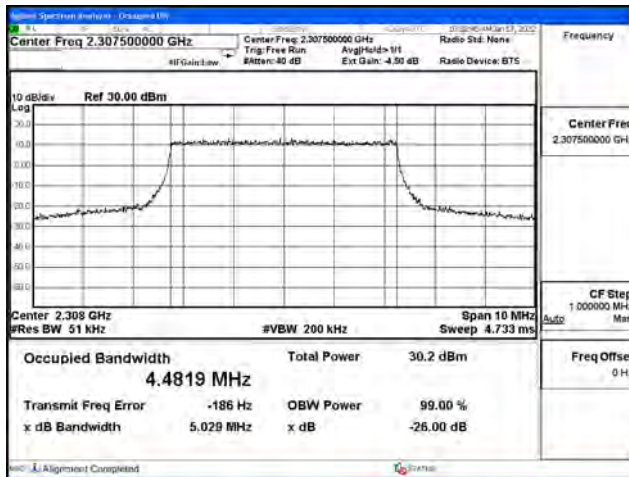
256QAM_CH23330_10M_50RB0



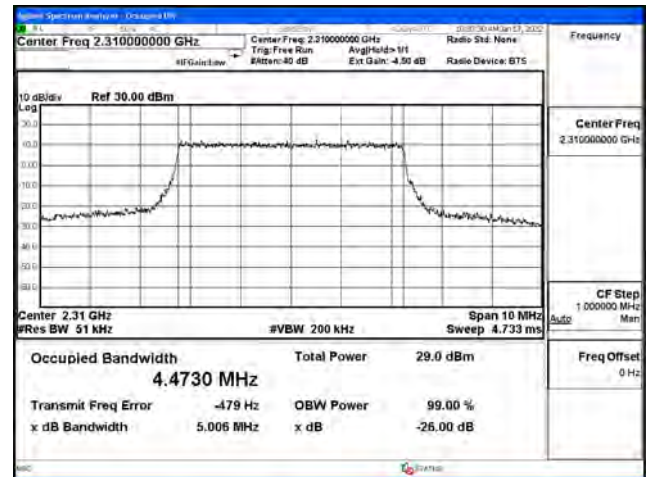
Mode 5: LTE Band 30

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
5	QPSK	27685	2307.5	5.029	4.481	N/A
		27710	2310	5.006	4.473	N/A
		27735	2312.5	5.044	4.478	N/A
	16-QAM	27685	2307.5	4.974	4.480	N/A
		27710	2310	5.033	4.479	N/A
		27735	2312.5	5.039	4.483	N/A
	64-QAM	27685	2307.5	5.005	4.476	N/A
		27710	2310	5.014	4.485	N/A
		27735	2312.5	5.000	4.478	N/A
	256-QAM	27685	2307.5	5.045	4.481	N/A
		27710	2310	4.959	4.476	N/A
		27735	2312.5	4.986	4.467	N/A
10	QPSK	27710	2310	9.896	8.957	N/A
	16-QAM	27710	2310	9.788	8.945	N/A
	64-QAM	27710	2310	9.775	8.945	N/A
	256-QAM	27710	2310	9.662	8.953	N/A

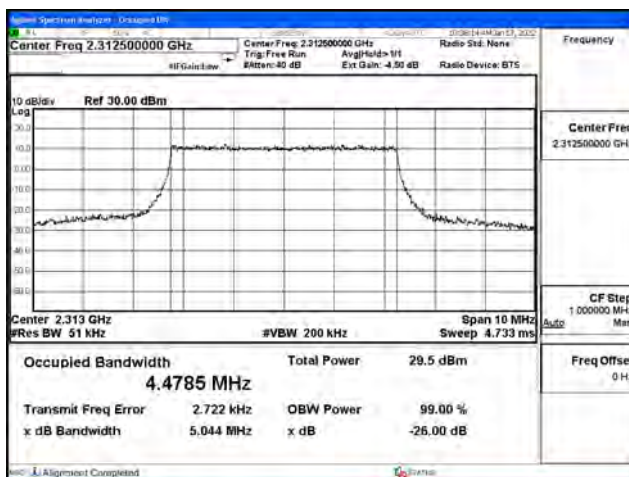
QPSK_CH27685_5M_25RB0



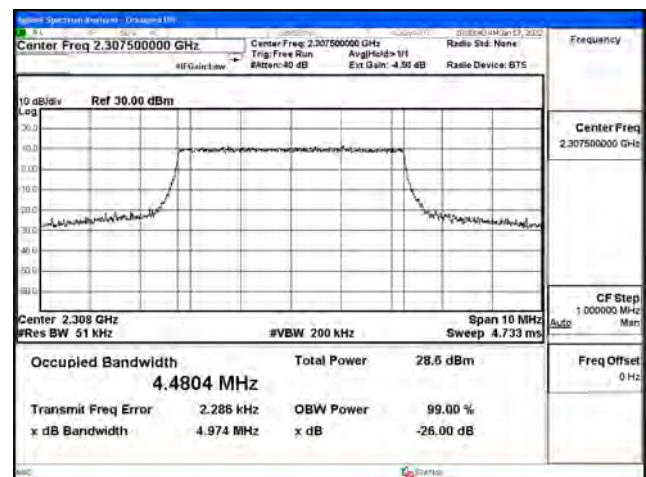
QPSK_CH27710_5M_25RB0



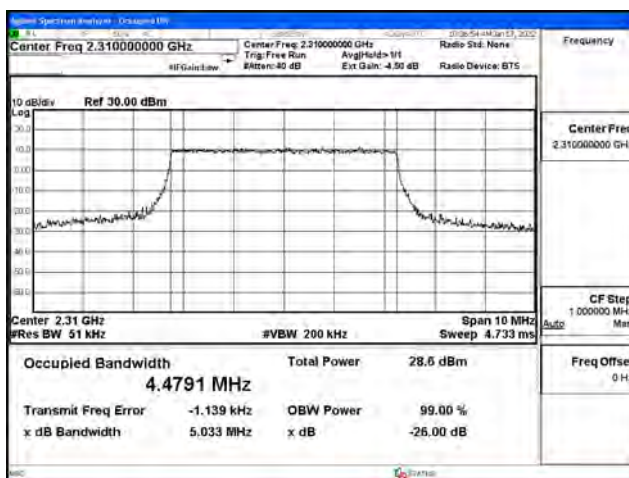
QPSK_CH27735_5M_25RB0



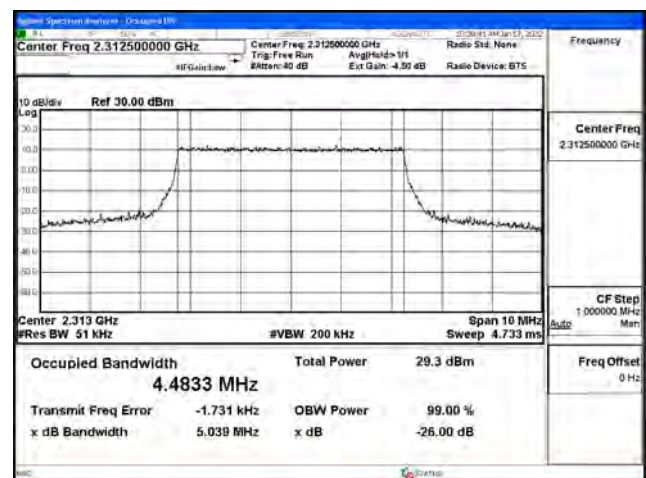
16QAM_CH27685_5M_25RB0



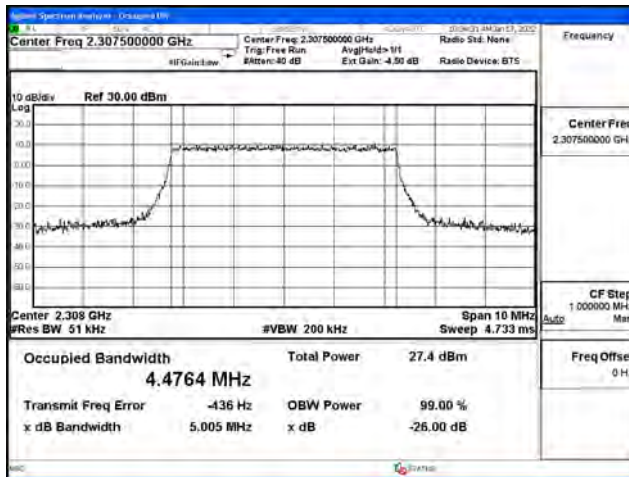
16QAM_CH27710_5M_25RB0



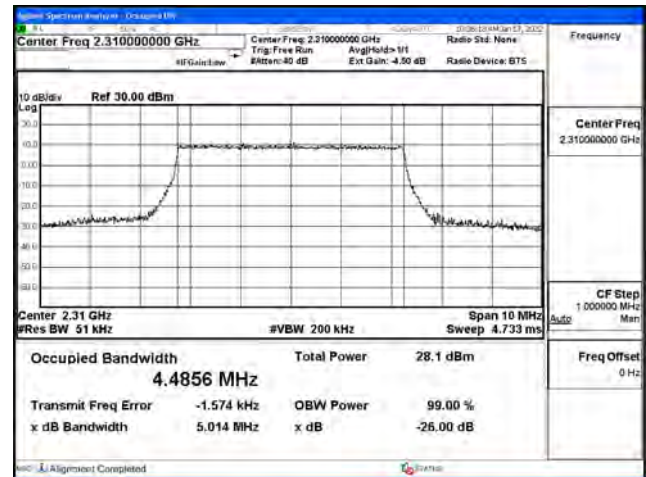
16QAM_CH27735_5M_25RB0



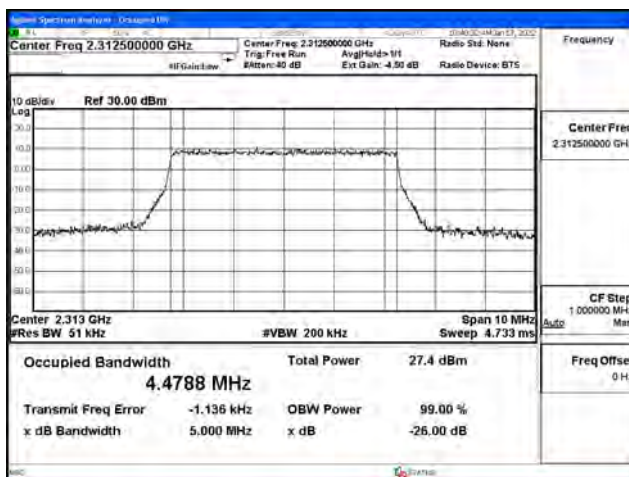
64QAM_CH27685_5M_25RB0



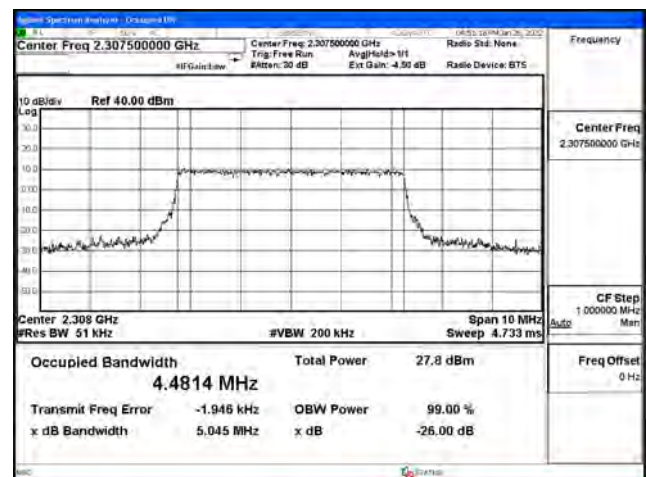
64QAM_CH27710_5M_25RB0



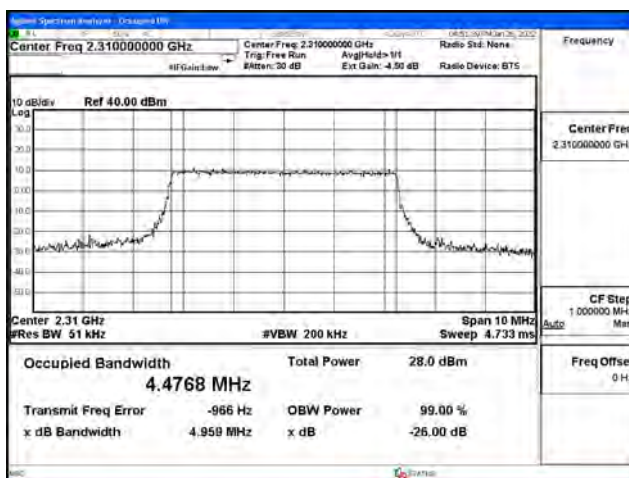
64QAM_CH27735_5M_25RB0



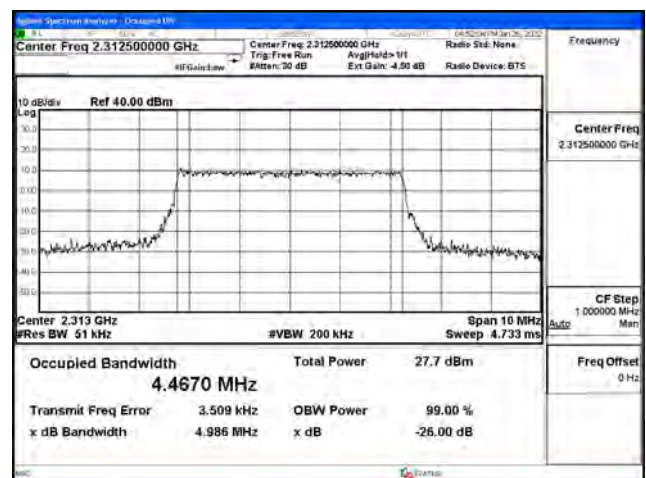
256QAM_CH27685_5M_25RB0



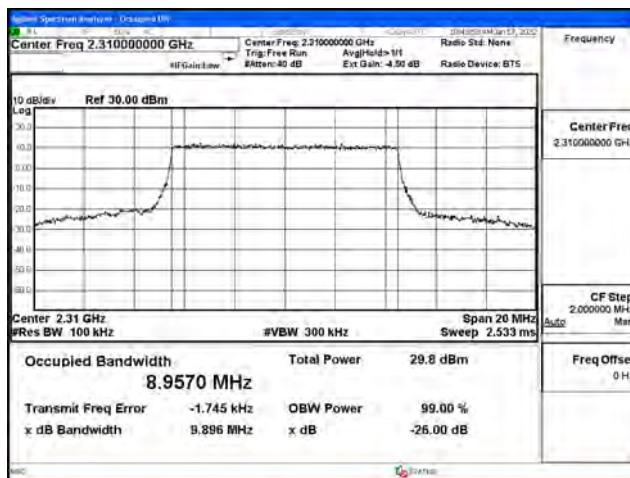
256QAM_CH27710_5M_25RB0



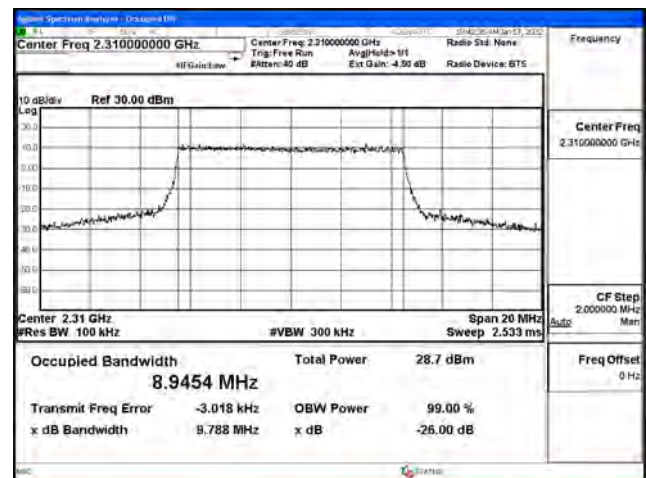
256QAM_CH27735_5M_25RB0



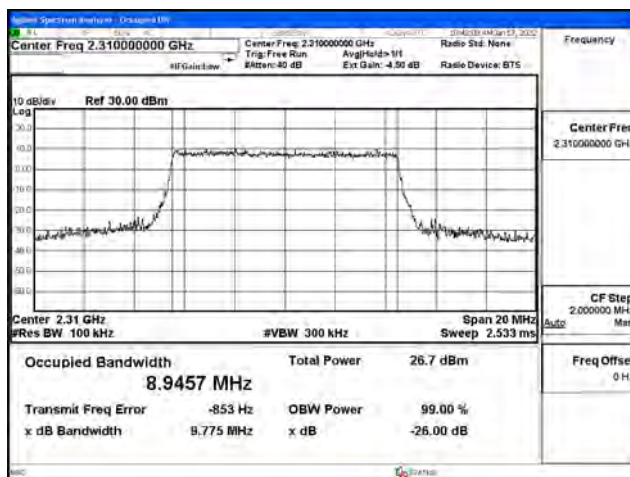
QPSK_CH27710_10M_50RB0



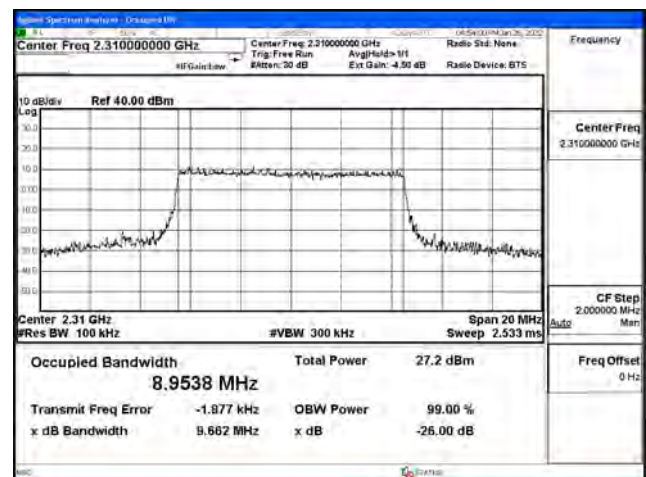
16QAM_CH27710_10M_50RB0



64QAM_CH27710_10M_50RB0



256QAM_CH27710_10M_50RB0

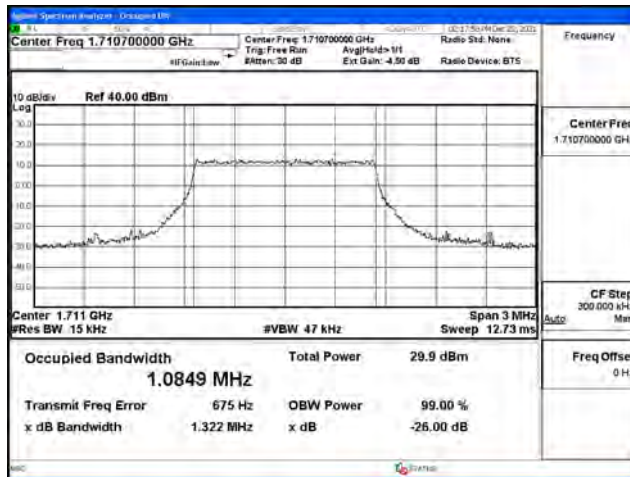


Mode 6: LTE Band 66

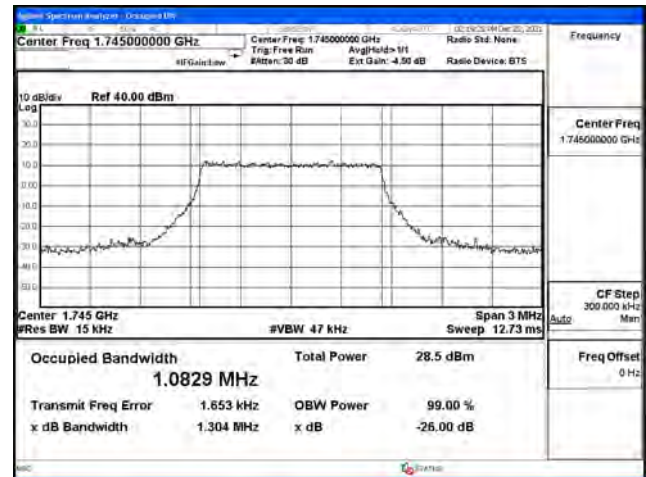
Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
1.4	QPSK	131979	1710.7	1.322	1.085	N/A
		132322	1745	1.304	1.083	N/A
		132665	1779.3	1.276	1.084	N/A
	16-QAM	131979	1710.7	1.287	1.086	N/A
		132322	1745	1.272	1.082	N/A
		132665	1779.3	1.331	1.086	N/A
	64-QAM	131979	1710.7	1.290	1.086	N/A
		132322	1745	1.300	1.086	N/A
		132665	1779.3	1.303	1.086	N/A
	256-QAM	131979	1710.7	1.325	1.080	N/A
		132322	1745	1.301	1.078	N/A
		132665	1779.3	1.298	1.081	N/A
3	QPSK	131987	1711.5	3.022	2.693	N/A
		132322	1745	2.970	2.695	N/A
		132657	1778.5	3.017	2.698	N/A
	16-QAM	131987	1711.5	2.976	2.697	N/A
		132322	1745	2.999	2.694	N/A
		132657	1778.5	3.006	2.697	N/A
	64-QAM	131987	1711.5	2.962	2.707	N/A
		132322	1745	3.016	2.697	N/A
		132657	1778.5	3.004	2.693	N/A
	256-QAM	131987	1711.5	2.938	2.686	N/A
		132322	1745	2.941	2.688	N/A
		132657	1778.5	2.955	2.684	N/A
5	QPSK	131997	1712.5	5.022	4.483	N/A
		132322	1745	5.074	4.485	N/A
		132647	1777.5	5.050	4.494	N/A
	16-QAM	131997	1712.5	5.011	4.485	N/A
		132322	1745	5.012	4.488	N/A
		132647	1777.5	5.046	4.488	N/A
	64-QAM	131997	1712.5	4.946	4.473	N/A
		132322	1745	5.005	4.492	N/A
		132647	1777.5	4.973	4.483	N/A
	256-QAM	131997	1712.5	4.981	4.469	N/A
		132322	1745	5.067	4.462	N/A
		132647	1777.5	4.999	4.469	N/A

Bandwidth (MHz)	Modulation	Channel	Frequency (MHz)	Measure Level (MHz)		Limit (MHz)
				26dB BW	99% BW	
10	QPSK	132022	1715	9.890	8.973	N/A
		132322	1745	9.738	8.971	N/A
		132622	1775	9.882	8.966	N/A
	16-QAM	132022	1715	9.817	8.968	N/A
		132322	1745	9.839	8.999	N/A
		132622	1775	9.886	8.979	N/A
	64-QAM	132022	1715	9.751	8.953	N/A
		132322	1745	9.798	8.968	N/A
		132622	1775	9.838	8.972	N/A
	256-QAM	132022	1715	9.720	8.954	N/A
		132322	1745	9.800	8.949	N/A
		132622	1775	9.720	8.953	N/A
15	QPSK	132047	1717.5	14.690	13.468	N/A
		132322	1745	14.550	13.465	N/A
		132597	1772.5	14.740	13.482	N/A
	16-QAM	132047	1717.5	14.630	13.464	N/A
		132322	1745	13.456	14.610	N/A
		132597	1772.5	14.520	13.456	N/A
	64-QAM	132047	1717.5	14.650	13.468	N/A
		132322	1745	14.650	13.441	N/A
		132597	1772.5	14.440	13.411	N/A
	256-QAM	132047	1717.5	14.450	13.440	N/A
		132322	1745	14.490	13.448	N/A
		132597	1772.5	14.450	13.436	N/A
20	QPSK	132072	1720	19.460	17.893	N/A
		132322	1745	19.330	17.962	N/A
		132572	1770	19.500	17.889	N/A
	16-QAM	132072	1720	19.290	17.893	N/A
		132322	1745	19.530	17.947	N/A
		132572	1770	19.450	17.897	N/A
	64-QAM	132072	1720	19.390	17.925	N/A
		132322	1745	19.490	17.902	N/A
		132572	1770	19.070	17.885	N/A
	256-QAM	132072	1720	19.320	17.908	N/A
		132322	1745	19.310	17.877	N/A
		132572	1770	19.000	17.867	N/A

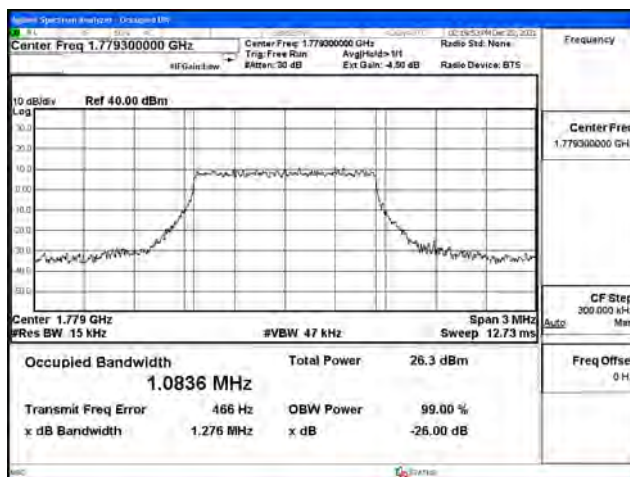
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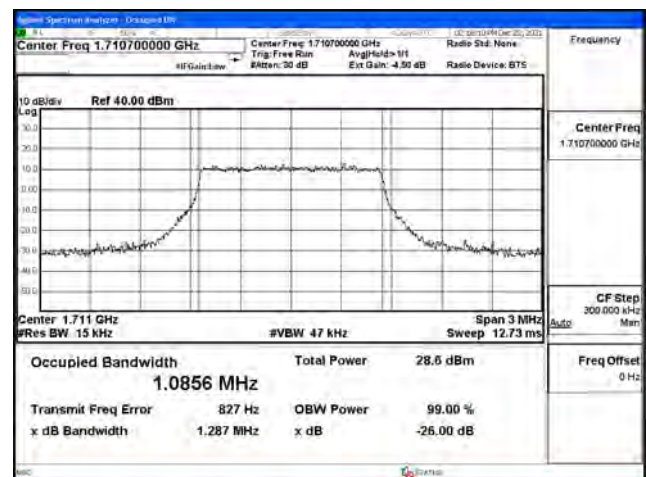
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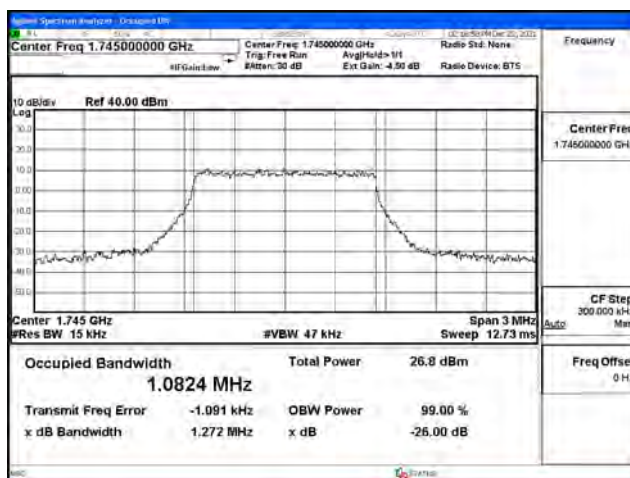
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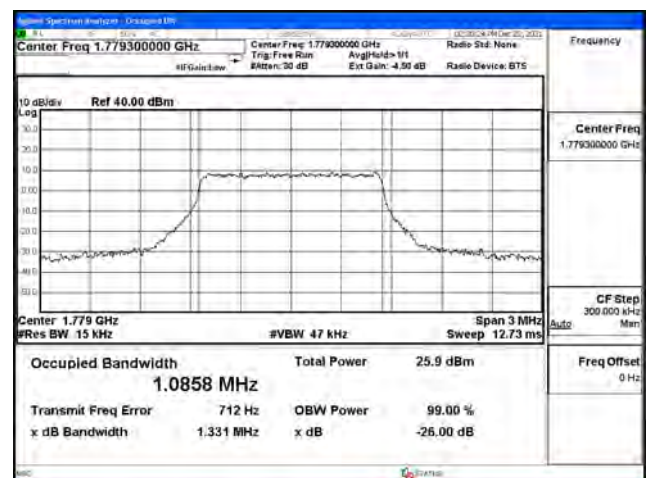
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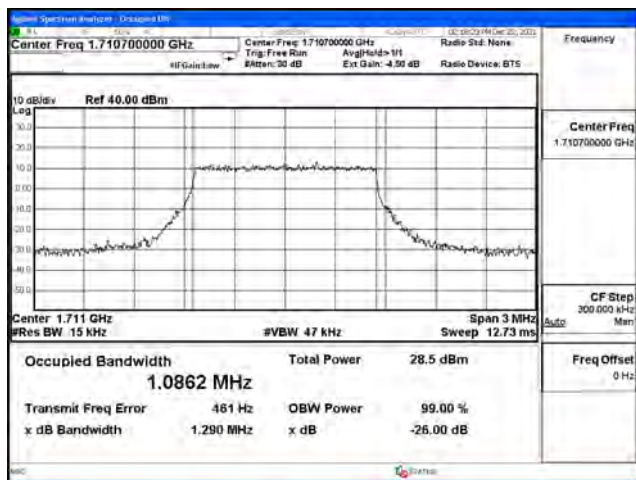
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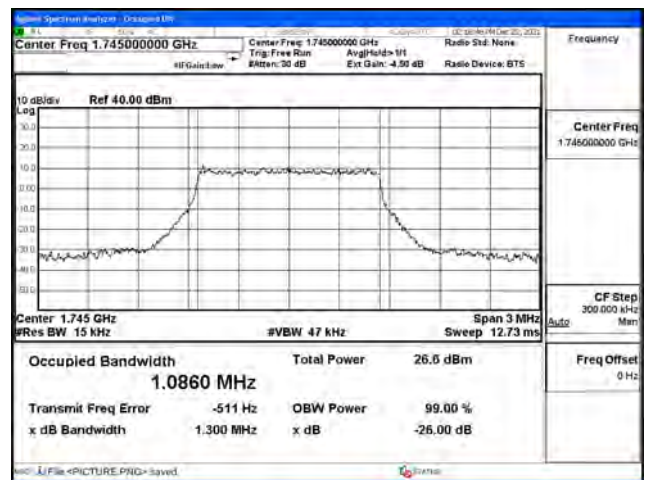
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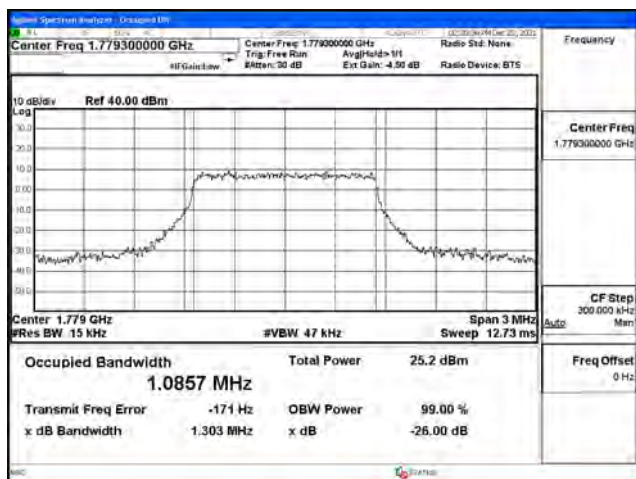
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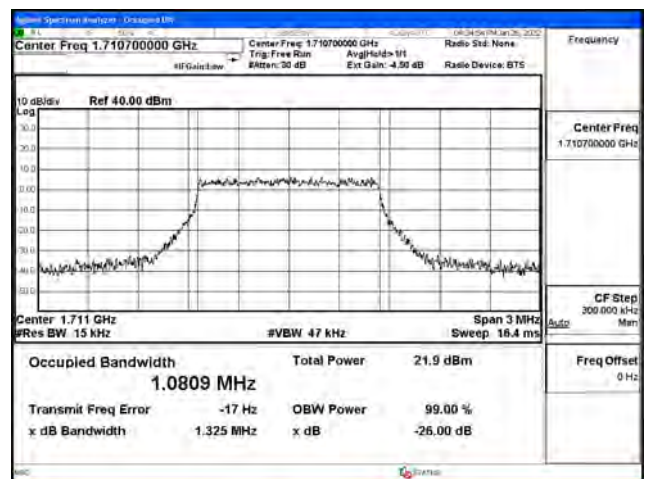
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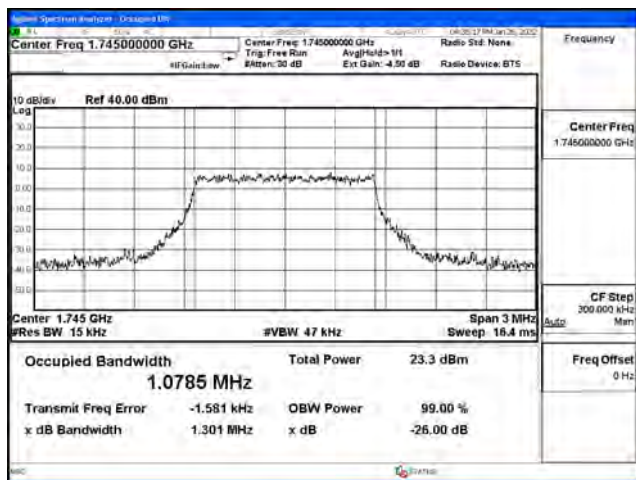
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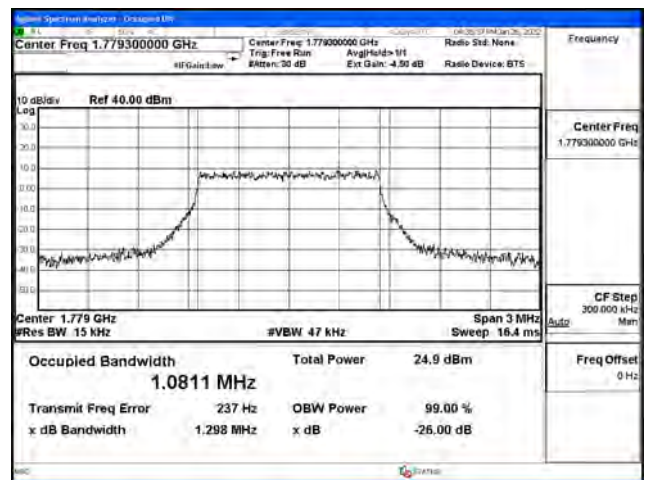
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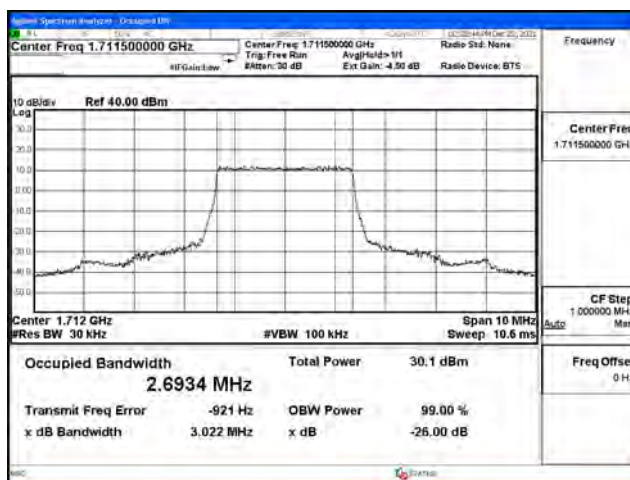
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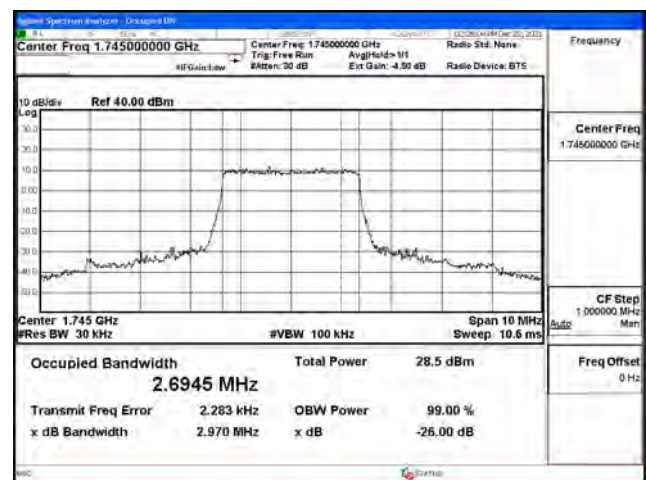
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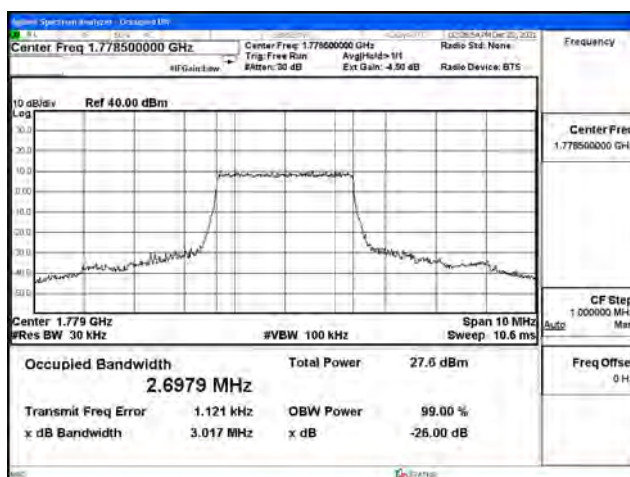
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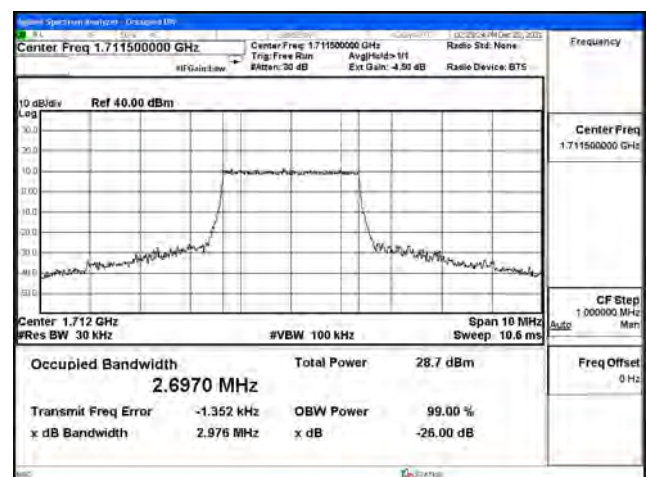
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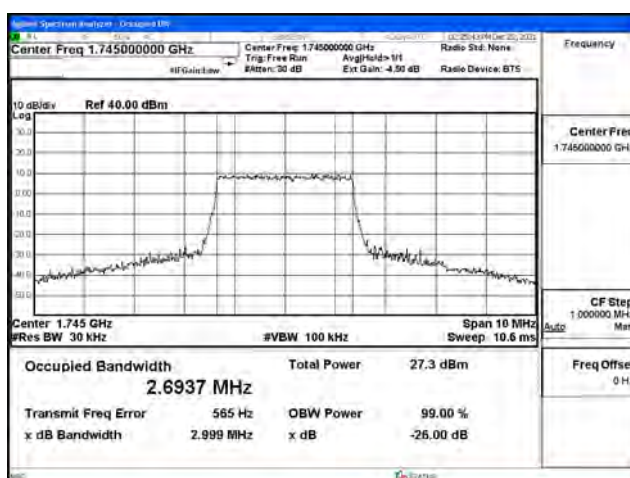
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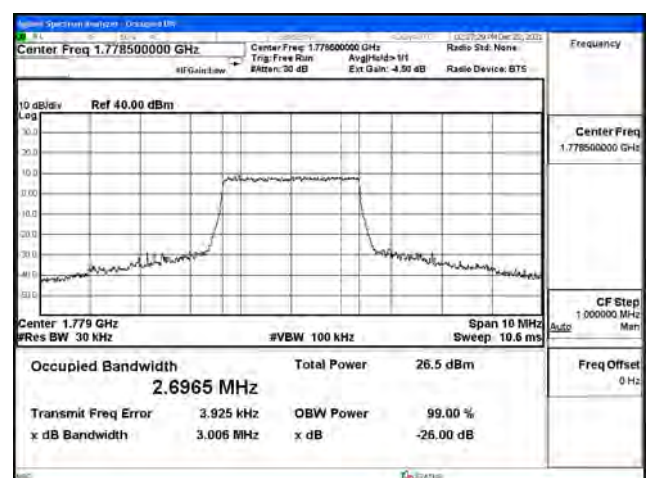
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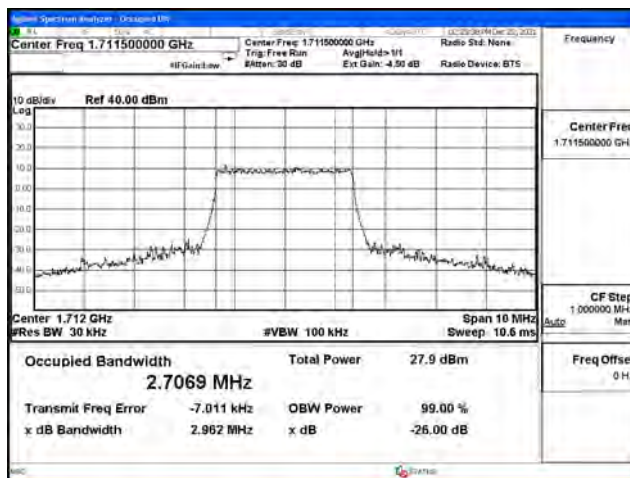
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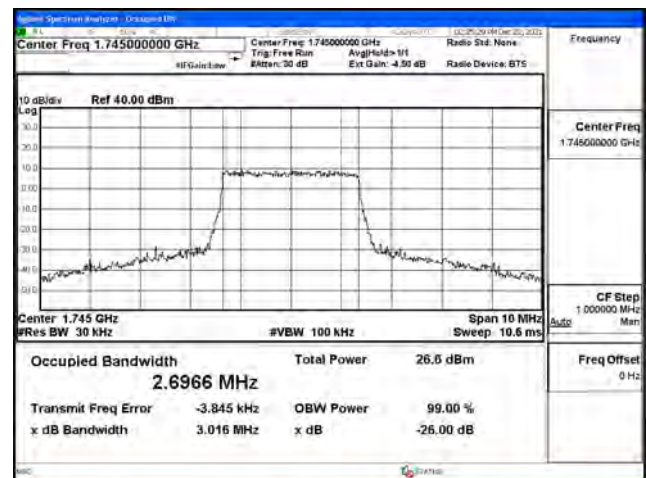
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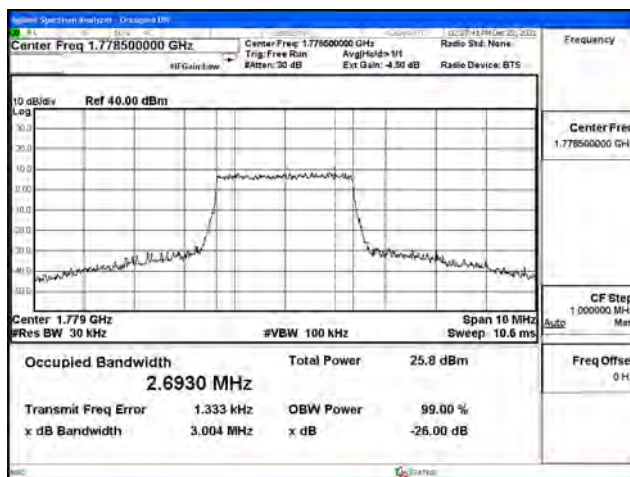
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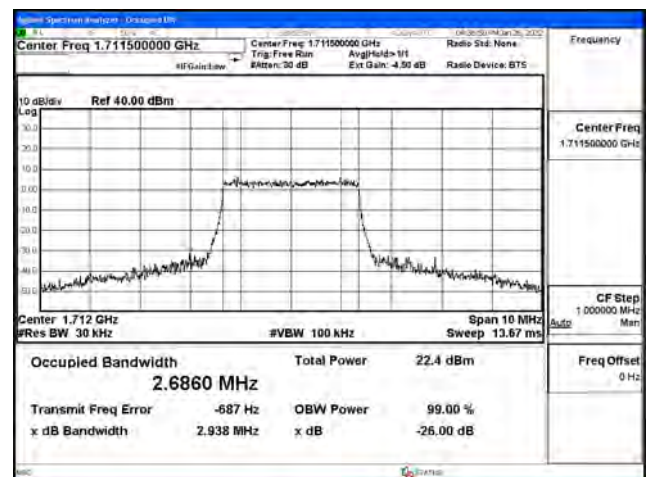
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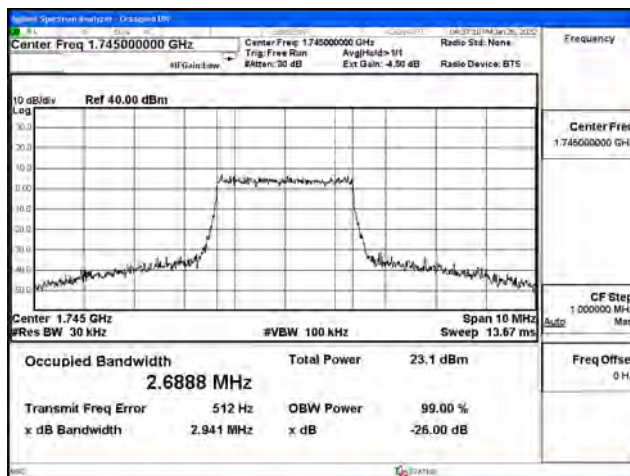
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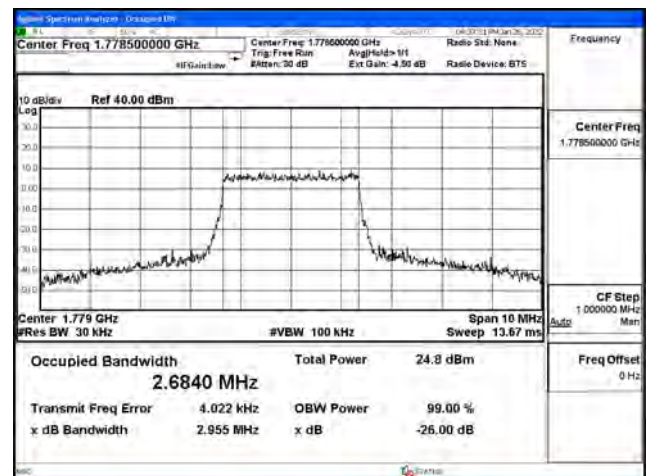
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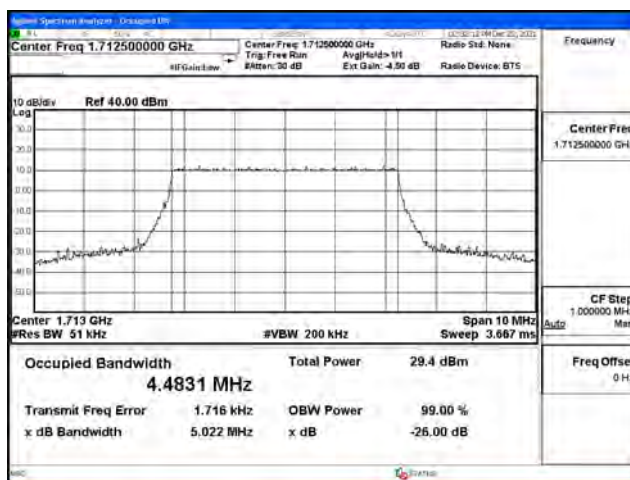
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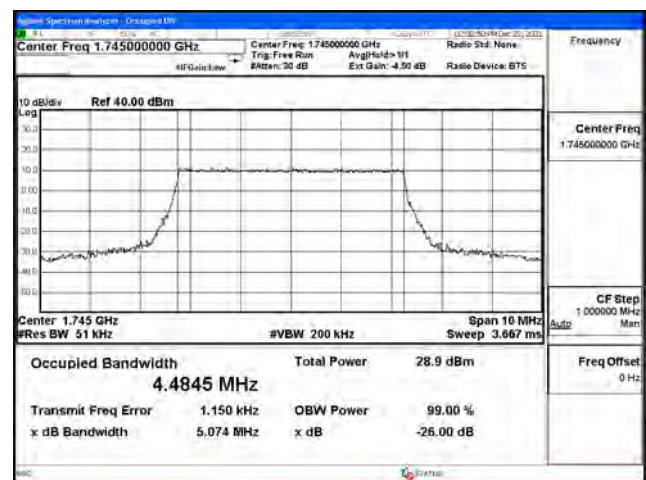
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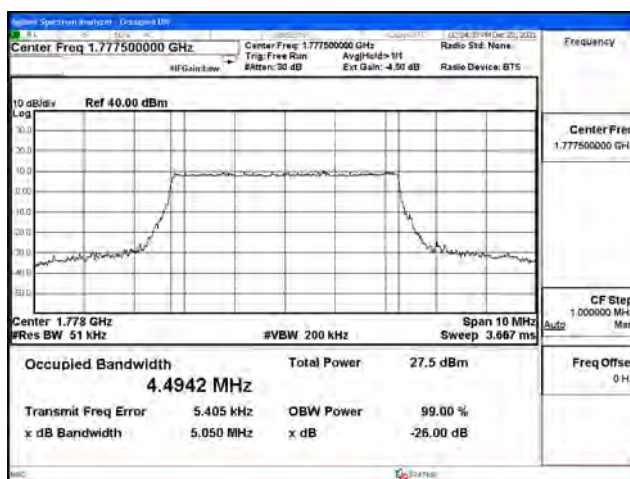
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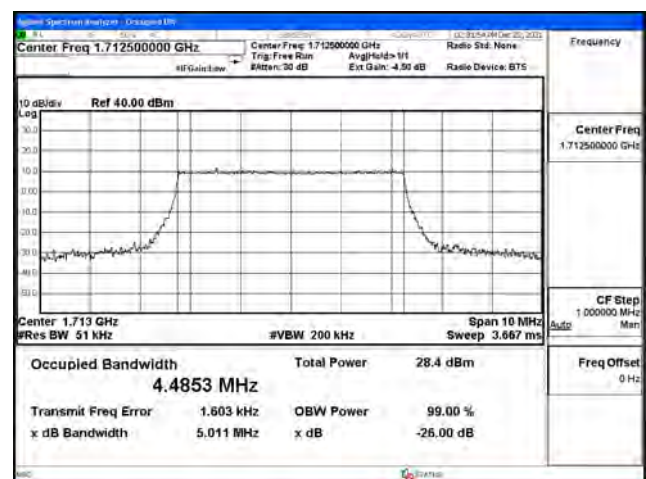
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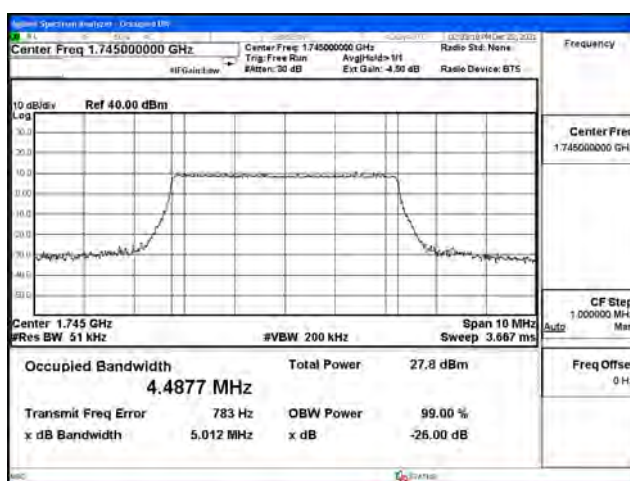
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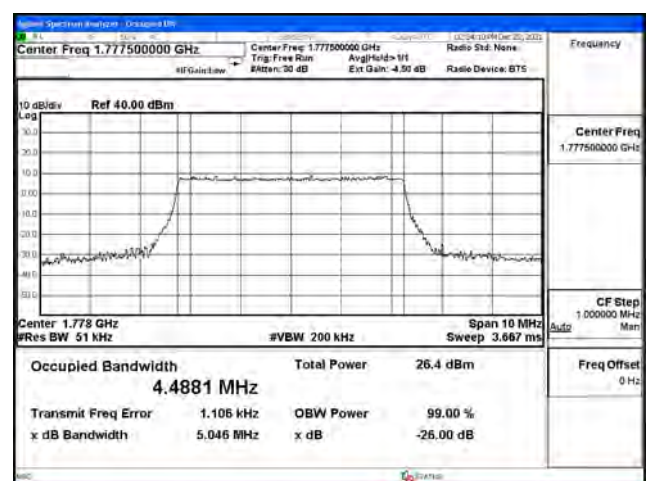
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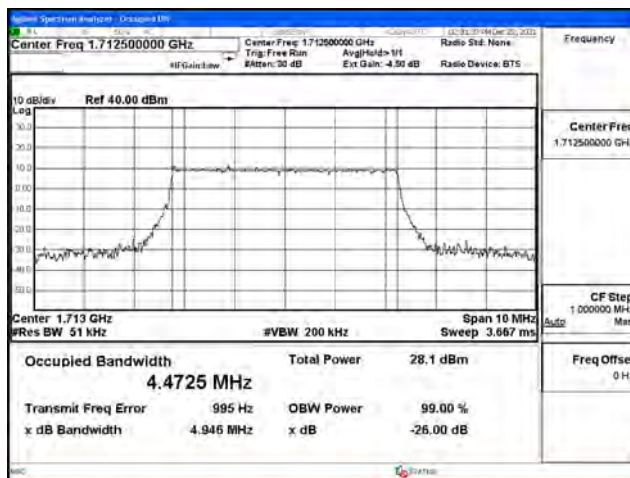
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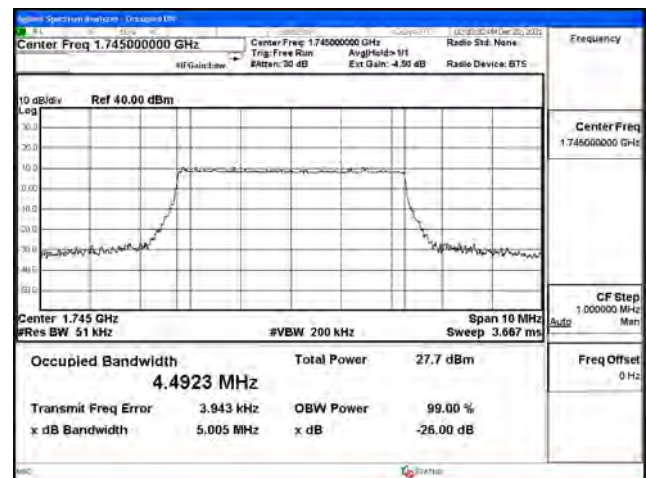
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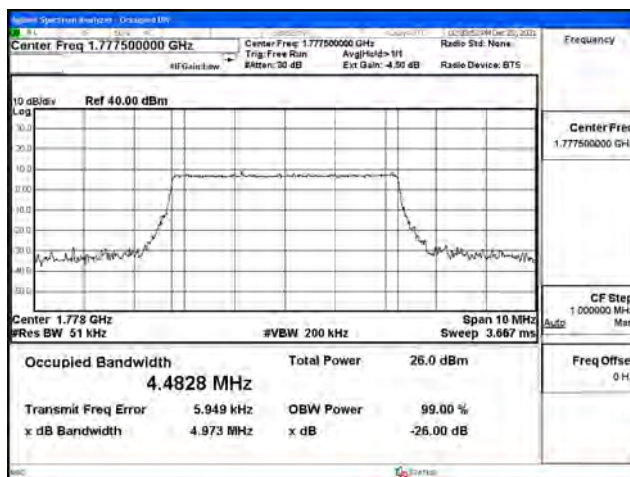
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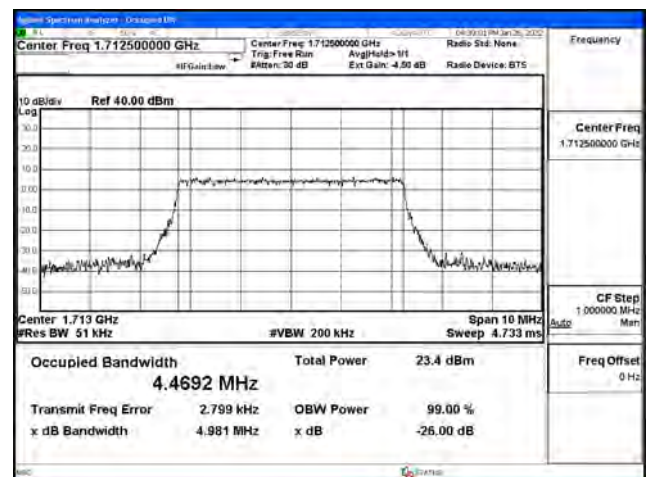
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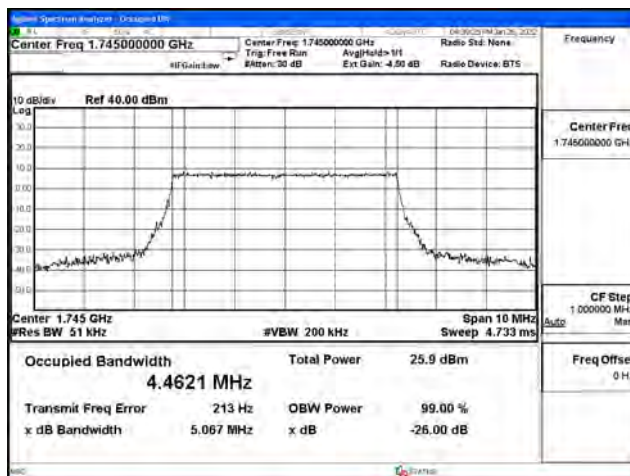
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