

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

FCC Applicant / Manufacturer: TaiDoc Technology Corp
6F, No. 127, Wugong 2nd Rd., Wugu Dist., 248 New Taipei City, Taiwan

Product Name: TeleHealth Gateway

Brand Name: FORA

Model No.: TD-9017G, GW9017g, TD-9017X(X=0~9,A~F,H~Z and blank)

Model Difference: For different product exterior color, market

Report Number: ER/2021/80053

FCC ID TM79017GLTE

Issue Date: Dec. 24, 2021

Date of Test: Aug. 23, 2021~Dec. 21, 2021

Date of EUT Received: Aug. 18, 2021

Approved By _____

Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2 , 24E & 27 C.

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

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

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Revision History				
Report Number	Revision	Description	Issue Date	Revised By
ER/2021/80053	00	Original.	Dec. 24, 2021	Yami Kuo

Note:

- 1、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	TeleHealth Gateway
Brand Name:	FORA
Model No.:	TD-9017G, GW9017g, TD-9017X(X=0~9,A~F,H~Z and blank)
Model Difference:	For different product exterior color, market
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	9017721340000013(Normal conducted) 9017721340000024(Conducted) 9017721340000035(Conducted for Voltage control) 9017721340000046(Conduction & Radiated)
Power Supply:	6Vdc from AC/DC Adapter

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1.2 Operation Frequency Range

LTE Band 2		
BW (MHz)	Operation Frequency (MHz)	
1.4	1850.7	1909.3
3	1851.5	1908.5
5	1852.5	1907.5
10	1855.0	1905.0
15	1857.5	1902.5
20	1860.0	1900.0

LTE Band 4		
BW (MHz)	Operation Frequency (MHz)	
1.4	1710.7	1754.3
3	1711.5	1753.5
5	1712.5	1752.5
10	1715.0	1750.0
15	1717.5	1747.5
20	1720.0	1745.0

LTE Band 12		
BW (MHz)	Operation Frequency (MHz)	
1.4	699.7	715.3
3	700.5	714.5
5	701.5	713.5
10	704.0	711.0

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1.3 Antenna Designation

Antenna Type	Antenna Model No.
PCB	C1947-510005-A
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Type	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
			Ant0
PCB	LTE-Band 2	1850 ~ 1910	4.1
	LTE-Band 4	1710 ~ 1755	4.1
	LTE-Band 12	699 ~ 716	4.1

Note: Antenna information is provided by the applicant.

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

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
			ERP	EIRP				
2	1.4	QPSK	22.75	EIRP	0.188	1.9080	1M91G7D	11
		16QAM	22.14	EIRP	0.164	1.0894	1M09D7W	11
2	3	QPSK	26.71	EIRP	0.469	2.6875	2M69G7D	11
		16QAM	26.04	EIRP	0.402	2.6926	2M69D7W	11
2	5	QPSK	26.75	EIRP	0.473	4.4900	4M49G7D	11
		16QAM	26.11	EIRP	0.408	4.4845	4M48D7W	11
2	10	QPSK	27.00	EIRP	0.501	8.9756	8M98G7D	11
		16QAM	26.47	EIRP	0.444	8.9578	8M96D7W	11
2	15	QPSK	27.18	EIRP	0.522	13.496	13M5G7D	11
		16QAM	26.69	EIRP	0.467	13.476	13M5D7W	11
2	20	QPSK	27.14	EIRP	0.518	17.941	17M9G7D	11
		16QAM	26.54	EIRP	0.451	17.974	18M0D7W	11

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
			ERP	EIRP				
4	1.4	QPSK	27.03	EIRP	0.505	1.0902	1M09G7D	11
		16QAM	26.67	EIRP	0.465	1.0886	1M09D7W	11
4	3	QPSK	27.02	EIRP	0.504	2.6875	2M69G7D	11
		16QAM	26.64	EIRP	0.461	2.6932	2M69D7W	11
4	5	QPSK	27.06	EIRP	0.508	4.4836	4M48G7D	11
		16QAM	26.51	EIRP	0.448	4.4846	4M48D7W	11
4	10	QPSK	27.09	EIRP	0.512	9.0035	9M00G7D	11
		16QAM	26.51	EIRP	0.448	8.9636	8M96D7W	11
4	15	QPSK	27.29	EIRP	0.536	13.4960	13M5G7D	11
		16QAM	26.83	EIRP	0.482	13.4730	13M5D7W	11
4	20	QPSK	27.18	EIRP	0.522	17.9460	17M9G7D	11
		16QAM	26.62	EIRP	0.459	17.9640	18M0D7W	11

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
12	1.4	QPSK	24.09	ERP	0.256	1.0894	1M09G7D	11
		16QAM	23.49	ERP	0.223	1.0881	1M09D7W	11
12	3	QPSK	24.07	ERP	0.255	2.6888	2M69G7D	11
		16QAM	23.39	ERP	0.218	2.6927	2M69D7W	11
12	5	QPSK	24.01	ERP	0.252	4.4851	4M49G7D	11
		16QAM	23.28	ERP	0.213	4.4880	4M49D7W	11
12	10	QPSK	24.06	ERP	0.255	8.9950	9M00G7D	11
		16QAM	23.18	ERP	0.208	8.9698	8M97D7W	11

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 24E, 27C.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	4.38	10	14.38
High Band (Above 1 GHz)	4.69	10	14.69

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2.5 Final Amplifier Voltage and Current Information:

LTE Band 2

Test mode	DC voltage (V)	DC current (mA)
LTE Band 2_20M QPSK	5	67

LTE Band 4

Test mode	DC voltage (V)	DC current (mA)
LTE Band 4_20M QPSK	5	69

LTE Band 12

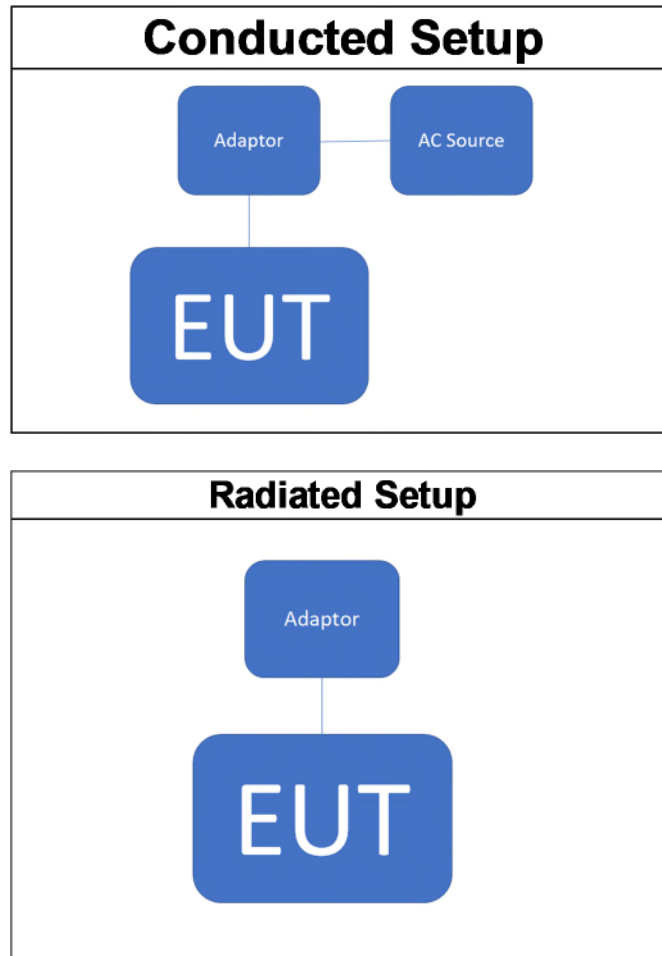
Test mode	DC voltage (V)	DC current (mA)
LTE Band 12_10M QPSK	5	68

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2.6 Test Configuration



Note: Radio Communication Analyzer is placed in remote side for radiated test.

2.7 Control Unit(s)

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	AMIGO	AMS195-0601000FU	N/A	N/A	N/A

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3 SUMMARY OF TEST RESULTS

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

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4 DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. X(E1)Y(E2)Z(H) 3 axis are observed to find higher emissions for radiated spurious emission measurement recorded in this report.

4.2 Measurement Configuration

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	12	v	v	v	v	v	v	v	-	-	v	v	v	v	v
Frequency Stability	2	-	v	-				v			v	-	-	-	v
	4	-	v	-				v			v	-	-	-	v
	12	-	v	-				v	-	-	v	-	-	-	v
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v	v	v	v	-	-	v
	4	v	v	v	v	v	v	v	v	v	v	v	-	-	v
	12	v	v	v	v	v	v	v	-	-	v	v	-	-	v
Peak-to-Average Ratio	2	v	v	v	v	v	v	v	v	v	v	v	-	-	v
	4	v	v	v	v	v	v	v	v	v	v	v	-	-	v
	12	v	v	v	v	v	v	v	-	-	v	v	-	-	v
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Band Edge	2	v	-	v	v	v	v	v	v	v	v	-	v	v	v
	4	v	-	v	v	v	v	v	v	v	v	-	v	v	v
	12	v	-	v	v	v	v	v	-	-	v	-	v	v	v
Conducted Emission	2	v	v	v	v	v	v	v	v	v	v	-	v	-	-
	4	v	v	v	v	v	v	v	v	v	v	-	v	-	-
	12	v	v	v	v	v	v	v	-	-	v	-	v	-	-
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation		RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full
Radiated Emission	2	v	v	v					v		v		v		
	4	v	v	v					v		v		v		
	12	v	v	v	v				-	-	v		v		

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.69 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz
	+/- 4.93 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz
	+/- 4.45 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz

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

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6 MAXMUM OUTPUT POWER

6.1 Standard Applicable

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

6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(c)

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

FCC 27.50(d)

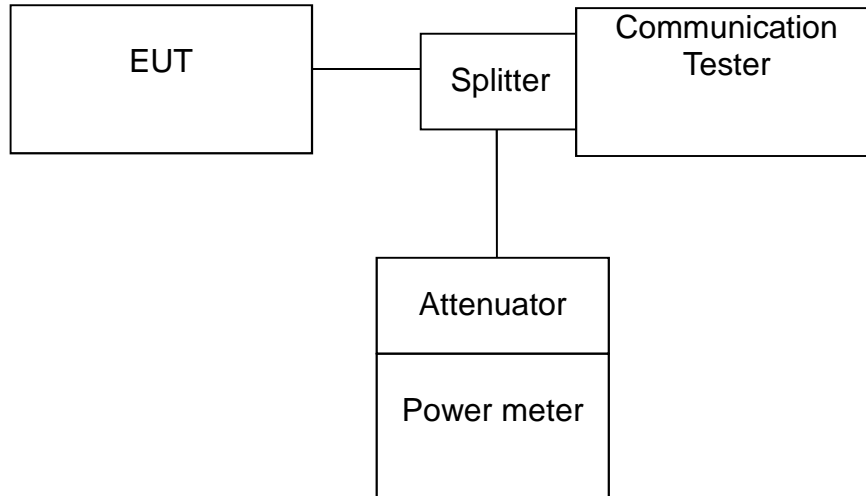
(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

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6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

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

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6.4 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as PT, typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- PT = transmitter output power, expressed in dBW, dBm, or PSD;
- GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

6.5 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/12/2021	05/11/2022
Radio Communication Analyser	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021

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6.6 Measurement Results:

Antenna gain (dBi)		4.1							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	22.12	22.53	33	-10.47
				1	5	22.14	22.52	33	-10.48
				3	2	22.14	22.57	33	-10.43
				6	0	21.14	21.54	33	-11.46
	18900	1880	QPSK	1	0	21.95	22.70	33	-10.3
				1	5	21.99	22.69	33	-10.31
				3	2	22.07	22.75	33	-10.25
				6	0	21.02	21.70	33	-11.3
	19193	1909.3	QPSK	1	0	21.53	22.47	33	-10.53
				1	5	21.91	22.43	33	-10.57
				3	2	21.97	22.48	33	-10.52
				6	0	20.97	21.42	33	-11.58
1.4	18607	1850.7	16QAM	1	0	21.47	21.77	33	-11.23
				1	5	21.46	21.68	33	-11.32
				3	2	21.29	21.66	33	-11.34
				6	0	20.21	20.86	33	-12.14
	18900	1880	16QAM	1	0	21.54	22.14	33	-10.86
				1	5	21.11	22.00	33	-11
				3	2	21.22	21.64	33	-11.36
				6	0	20.20	21.05	33	-11.95
	19193	1909.3	16QAM	1	0	21.31	21.22	33	-11.78
				1	5	21.19	21.30	33	-11.7
				3	2	21.15	21.53	33	-11.47
				6	0	20.16	20.69	33	-12.31

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Antenna gain (dBi)		4.1							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	22.49	26.59	33	-6.41
				1	14	22.39	26.49	33	-6.51
				8	4	21.53	25.63	33	-7.37
				15	0	21.57	25.67	33	-7.33
	18900	1880	QPSK	1	0	22.61	26.71	33	-6.29
				1	14	22.61	26.71	33	-6.29
				8	4	21.66	25.76	33	-7.24
				15	0	21.69	25.79	33	-7.21
	19185	1908.5	QPSK	1	0	22.46	26.56	33	-6.44
				1	14	22.36	26.46	33	-6.54
				8	4	21.47	25.57	33	-7.43
				15	0	21.41	25.51	33	-7.49
3	18615	1851.5	16QAM	1	0	21.60	25.70	33	-7.3
				1	14	21.47	25.57	33	-7.43
				8	4	20.79	24.89	33	-8.11
				15	0	20.85	24.95	33	-8.05
	18900	1880	16QAM	1	0	21.94	26.04	33	-6.96
				1	14	21.77	25.87	33	-7.13
				8	4	20.87	24.97	33	-8.03
				15	0	20.89	24.99	33	-8.01
	19185	1908.5	16QAM	1	0	21.64	25.74	33	-7.26
				1	14	21.57	25.67	33	-7.33
				8	4	20.61	24.71	33	-8.29
				15	0	20.70	24.80	33	-8.2

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Antenna gain (dBi)		4.1							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	22.58	26.68	33	-6.32
				1	24	22.50	26.60	33	-6.4
				12	6	21.60	25.70	33	-7.3
				25	0	21.60	25.70	33	-7.3
	18900	1880	QPSK	1	0	22.63	26.73	33	-6.27
				1	24	22.65	26.75	33	-6.25
				12	6	21.68	25.78	33	-7.22
				25	0	21.68	25.78	33	-7.22
	19175	1907.5	QPSK	1	0	22.58	26.68	33	-6.32
				1	24	22.36	26.46	33	-6.54
				12	6	21.45	25.55	33	-7.45
				25	0	21.50	25.60	33	-7.4
5	18625	1852.5	16QAM	1	0	22.01	26.11	33	-6.89
				1	24	21.90	26.00	33	-7
				12	6	20.86	24.96	33	-8.04
				25	0	20.80	24.90	33	-8.1
	18900	1880	16QAM	1	0	21.95	26.05	33	-6.95
				1	24	21.88	25.98	33	-7.02
				12	6	20.98	25.08	33	-7.92
				25	0	20.98	25.08	33	-7.92
	19175	1907.5	16QAM	1	0	21.78	25.88	33	-7.12
				1	24	21.47	25.57	33	-7.43
				12	6	20.76	24.86	33	-8.14
				25	0	20.77	24.87	33	-8.13

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Antenna gain (dBi)		4.1							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	22.66	26.76	33	-6.24
				1	49	22.45	26.55	33	-6.45
				25	12	21.67	25.77	33	-7.23
				50	0	21.74	25.84	33	-7.16
	18900	1880	QPSK	1	0	22.90	27.00	33	-6
				1	49	22.57	26.67	33	-6.33
				25	12	20.94	25.04	33	-7.96
				50	0	20.97	25.07	33	-7.93
	19150	1905	QPSK	1	0	22.83	26.93	33	-6.07
				1	49	22.38	26.48	33	-6.52
				25	12	21.55	25.65	33	-7.35
				50	0	21.59	25.69	33	-7.31
10	18650	1855	16QAM	1	0	22.18	26.28	33	-6.72
				1	49	21.83	25.93	33	-7.07
				25	12	20.88	24.98	33	-8.02
				50	0	20.98	25.08	33	-7.92
	18900	1880	16QAM	1	0	22.37	26.47	33	-6.53
				1	49	21.92	26.02	33	-6.98
				25	12	19.96	24.06	33	-8.94
				50	0	21.08	25.18	33	-7.82
	19150	1905	16QAM	1	0	22.20	26.30	33	-6.7
				1	49	21.68	25.78	33	-7.22
				25	12	20.78	24.88	33	-8.12
				50	0	19.81	23.91	33	-9.09

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		4.1		LTE Band 2_Uplink frequency band : 1850 to 1910 MHz					
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	23.01	27.11	33	-5.89
				1	74	22.60	26.70	33	-6.3
				36	18	20.87	24.97	33	-8.03
				75	0	21.78	25.88	33	-7.12
	18900	1880	QPSK	1	0	23.08	27.18	33	-5.82
				1	74	21.62	25.72	33	-7.28
				36	18	21.00	25.10	33	-7.9
				75	0	21.90	26.00	33	-7
	19125	1902.5	QPSK	1	0	23.01	27.11	33	-5.89
				1	74	22.35	26.45	33	-6.55
				36	18	21.71	25.81	33	-7.19
				75	0	21.75	25.85	33	-7.15
15	18675	1857.5	16QAM	1	0	22.49	26.59	33	-6.41
				1	74	21.28	25.38	33	-7.62
				36	18	20.91	25.01	33	-7.99
				75	0	21.01	25.11	33	-7.89
	18900	1880	16QAM	1	0	22.59	26.69	33	-6.31
				1	74	22.06	26.16	33	-6.84
				36	18	21.02	25.12	33	-7.88
				75	0	21.12	25.22	33	-7.78
	19125	1902.5	16QAM	1	0	22.38	26.48	33	-6.52
				1	74	21.65	25.75	33	-7.25
				36	18	20.83	24.93	33	-8.07
				75	0	20.90	25.00	33	-8

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Antenna gain (dBi)		4.1							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	22.92	27.02	33	-5.98
				1	99	22.29	26.39	33	-6.61
				50	25	20.74	24.84	33	-8.16
				100	0	20.86	24.96	33	-8.04
	18900	1880	QPSK	1	0	23.02	27.12	33	-5.88
				1	99	22.25	26.35	33	-6.65
				50	25	21.61	25.71	33	-7.29
				100	0	20.96	25.06	33	-7.94
	19100	1900	QPSK	1	0	23.04	27.14	33	-5.86
				1	99	22.15	26.25	33	-6.75
				50	25	21.54	25.64	33	-7.36
				100	0	21.66	25.76	33	-7.24
20	18700	1860	16QAM	1	0	20.42	24.52	33	-8.48
				1	99	21.73	25.83	33	-7.17
				50	25	20.74	24.84	33	-8.16
				100	0	20.86	24.96	33	-8.04
	18900	1880	16QAM	1	0	21.42	25.52	33	-7.48
				1	99	21.57	25.67	33	-7.33
				50	25	20.88	24.98	33	-8.02
				100	0	20.92	25.02	33	-7.98
	19100	1900	16QAM	1	0	22.44	26.54	33	-6.46
				1	99	20.88	24.98	33	-8.02
				50	25	20.81	24.91	33	-8.09
				100	0	20.89	24.99	33	-8.01

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Antenna gain (dBi)		4.1							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	22.88	26.98	30	-3.02
				1	5	22.87	26.97	30	-3.03
				3	2	22.93	27.03	30	-2.97
				6	0	22.19	26.29	30	-3.71
	20175	1732.5	QPSK	1	0	22.41	26.51	30	-3.49
				1	5	22.25	26.35	30	-3.65
				3	2	22.68	26.78	30	-3.22
				6	0	21.96	26.06	30	-3.94
	20393	1754.3	QPSK	1	0	22.55	26.65	30	-3.35
				1	5	22.36	26.46	30	-3.54
				3	2	22.74	26.84	30	-3.16
				6	0	22.02	26.12	30	-3.88
1.4	19957	1710.7	16QAM	1	0	22.57	26.67	30	-3.33
				1	5	22.48	26.58	30	-3.42
				3	2	22.26	26.36	30	-3.64
				6	0	21.31	25.41	30	-4.59
	20175	1732.5	16QAM	1	0	22.21	26.31	30	-3.69
				1	5	22.27	26.37	30	-3.63
				3	2	22.07	26.17	30	-3.83
				6	0	21.05	25.15	30	-4.85
	20393	1754.3	16QAM	1	0	22.39	26.49	30	-3.51
				1	5	22.23	26.33	30	-3.67
				3	2	22.07	26.17	30	-3.83
				6	0	21.11	25.21	30	-4.79

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Antenna gain (dBi)		4.1							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	22.92	27.02	30	-2.98
				1	14	22.78	26.88	30	-3.12
				8	4	22.09	26.19	30	-3.81
				15	0	22.15	26.25	30	-3.75
	20175	1732.5	QPSK	1	0	22.71	26.81	30	-3.19
				1	14	22.35	26.45	30	-3.55
				8	4	21.98	26.08	30	-3.92
				15	0	21.96	26.06	30	-3.94
	20385	1753.5	QPSK	1	0	22.89	26.99	30	-3.01
				1	14	22.64	26.74	30	-3.26
				8	4	21.95	26.05	30	-3.95
				15	0	21.99	26.09	30	-3.91
3	19965	1711.5	16QAM	1	0	22.54	26.64	30	-3.36
				1	14	22.33	26.43	30	-3.57
				8	4	21.24	25.34	30	-4.66
				15	0	21.28	25.38	30	-4.62
	20175	1732.5	16QAM	1	0	22.19	26.29	30	-3.71
				1	14	21.86	25.96	30	-4.04
				8	4	21.01	25.11	30	-4.89
				15	0	21.04	25.14	30	-4.86
	20385	1753.5	16QAM	1	0	22.26	26.36	30	-3.64
				1	14	22.22	26.32	30	-3.68
				8	4	20.99	25.09	30	-4.91
				15	0	21.11	25.21	30	-4.79

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Antenna gain (dBi)		4.1							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	22.96	27.06	30	-2.94
				1	24	22.74	26.84	30	-3.16
				12	6	22.15	26.25	30	-3.75
				25	0	22.15	26.25	30	-3.75
	20175	1732.5	QPSK	1	0	22.61	26.71	30	-3.29
				1	24	22.26	26.36	30	-3.64
				12	6	21.97	26.07	30	-3.93
				25	0	21.95	26.05	30	-3.95
	20375	1752.5	QPSK	1	0	22.78	26.88	30	-3.12
				1	24	22.50	26.60	30	-3.4
				12	6	21.98	26.08	30	-3.92
				25	0	21.98	26.08	30	-3.92
5	19975	1712.5	16QAM	1	0	21.91	26.01	30	-3.99
				1	24	22.12	26.22	30	-3.78
				12	6	21.28	25.38	30	-4.62
				25	0	21.19	25.29	30	-4.71
	20175	1732.5	16QAM	1	0	22.41	26.51	30	-3.49
				1	24	22.15	26.25	30	-3.75
				12	6	21.03	25.13	30	-4.87
				25	0	21.05	25.15	30	-4.85
	20375	1752.5	16QAM	1	0	22.36	26.46	30	-3.54
				1	24	22.34	26.44	30	-3.56
				12	6	21.09	25.19	30	-4.81
				25	0	21.11	25.21	30	-4.79

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Antenna gain (dBi)		4.1							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	22.99	27.09	30	-2.91
				1	49	22.59	26.69	30	-3.31
				25	12	21.13	25.23	30	-4.77
				50	0	21.18	25.28	30	-4.72
	20175	1732.5	QPSK	1	0	22.89	26.99	30	-3.01
				1	49	21.77	25.87	30	-4.13
				25	12	21.01	25.11	30	-4.89
				50	0	21.00	25.10	30	-4.9
	20350	1750	QPSK	1	0	22.86	26.96	30	-3.04
				1	49	22.60	26.70	30	-3.3
				25	12	20.97	25.07	30	-4.93
				50	0	21.03	25.13	30	-4.87
10	20000	1715	16QAM	1	0	22.36	26.46	30	-3.54
				1	49	22.02	26.12	30	-3.88
				25	12	21.16	25.26	30	-4.74
				50	0	21.24	25.34	30	-4.66
	20175	1732.5	16QAM	1	0	22.41	26.51	30	-3.49
				1	49	21.94	26.04	30	-3.96
				25	12	21.08	25.18	30	-4.82
				50	0	20.99	25.09	30	-4.91
	20350	1750	16QAM	1	0	22.41	26.51	30	-3.49
				1	49	22.17	26.27	30	-3.73
				25	12	21.04	25.14	30	-4.86
				50	0	21.09	25.19	30	-4.81

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Antenna gain (dBi)		4.1							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.19	27.29	30	-2.71
				1	74	22.58	26.68	30	-3.32
				36	18	21.13	25.23	30	-4.77
				75	0	22.13	26.23	30	-3.77
	20175	1732.5	QPSK	1	0	23.10	27.20	30	-2.8
				1	74	22.43	26.53	30	-3.47
				36	18	20.93	25.03	30	-4.97
				75	0	21.04	25.14	30	-4.86
	20325	1747.5	QPSK	1	0	23.06	27.16	30	-2.84
				1	74	22.58	26.68	30	-3.32
				36	18	21.97	26.07	30	-3.93
				75	0	22.03	26.13	30	-3.87
15	20025	1717.5	16QAM	1	0	22.73	26.83	30	-3.17
				1	74	22.24	26.34	30	-3.66
				36	18	21.14	25.24	30	-4.76
				75	0	21.12	25.22	30	-4.78
	20175	1732.5	16QAM	1	0	22.51	26.61	30	-3.39
				1	74	21.81	25.91	30	-4.09
				36	18	21.05	25.15	30	-4.85
				75	0	21.09	25.19	30	-4.81
	20325	1747.5	16QAM	1	0	22.42	26.52	30	-3.48
				1	74	21.92	26.02	30	-3.98
				36	18	21.01	25.11	30	-4.89
				75	0	21.04	25.14	30	-4.86

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Antenna gain (dBi)		4.1							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.08	27.18	30	-2.82
				1	99	22.21	26.31	30	-3.69
				50	25	21.07	25.17	30	-4.83
				100	0	22.04	26.14	30	-3.86
	20175	1732.5	QPSK	1	0	22.32	26.42	30	-3.58
				1	99	22.18	26.28	30	-3.72
				50	25	21.86	25.96	30	-4.04
				100	0	22.00	26.10	30	-3.9
	20300	1745	QPSK	1	0	22.88	26.98	30	-3.02
				1	99	22.29	26.39	30	-3.61
				50	25	21.90	26.00	30	-4
				100	0	22.00	26.10	30	-3.9
20	20050	1720	16QAM	1	0	22.52	26.62	30	-3.38
				1	99	21.67	25.77	30	-4.23
				50	25	21.03	25.13	30	-4.87
				100	0	21.04	25.14	30	-4.86
	20175	1732.5	16QAM	1	0	22.49	26.59	30	-3.41
				1	99	21.72	25.82	30	-4.18
				50	25	20.91	25.01	30	-4.99
				100	0	21.04	25.14	30	-4.86
	20300	1745	16QAM	1	0	22.44	26.54	30	-3.46
				1	99	21.95	26.05	30	-3.95
				50	25	20.91	25.01	30	-4.99
				100	0	21.05	25.15	30	-4.85

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Antenna gain (dBi)		4.1								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.12	24.07	26.22	34.77	-10.70
				1	5	22.14	24.09	26.24	34.77	-10.68
				3	2	22.14	24.09	26.24	34.77	-10.68
				6	0	21.14	23.09	25.24	34.77	-11.68
	23095	707.5	QPSK	1	0	21.95	23.90	26.05	34.77	-10.87
				1	5	21.99	23.94	26.09	34.77	-10.83
				3	2	22.07	24.02	26.17	34.77	-10.75
				6	0	21.02	22.97	25.12	34.77	-11.80
	23173	715.5	QPSK	1	0	21.53	23.48	25.63	34.77	-11.29
				1	5	21.91	23.86	26.01	34.77	-10.91
				3	2	21.97	23.92	26.07	34.77	-10.85
				6	0	20.97	22.92	25.07	34.77	-11.85
1.4	23017	699.7	16QAM	1	0	21.47	23.42	25.57	34.77	-11.35
				1	5	21.46	23.41	25.56	34.77	-11.36
				3	2	21.29	23.24	25.39	34.77	-11.53
				6	0	20.21	22.16	24.31	34.77	-12.61
	23095	707.5	16QAM	1	0	21.54	23.49	25.64	34.77	-11.28
				1	5	21.11	23.06	25.21	34.77	-11.71
				3	2	21.22	23.17	25.32	34.77	-11.60
				6	0	20.20	22.15	24.30	34.77	-12.62
	23173	715.5	16QAM	1	0	21.31	23.26	25.41	34.77	-11.51
				1	5	21.19	23.14	25.29	34.77	-11.63
				3	2	21.15	23.10	25.25	34.77	-11.67
				6	0	20.16	22.11	24.26	34.77	-12.66

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Antenna gain (dBi)	4.1
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LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.12	24.07	26.22	34.77	-10.70
				1	14	22.11	24.06	26.21	34.77	-10.71
				8	4	21.12	23.07	25.22	34.77	-11.70
				15	0	21.10	23.05	25.20	34.77	-11.72
	23095	707.5	QPSK	1	0	22.06	24.01	26.16	34.77	-10.76
				1	14	21.97	23.92	26.07	34.77	-10.85
				8	4	21.05	23.00	25.15	34.77	-11.77
				15	0	21.02	22.97	25.12	34.77	-11.80
	23165	714.5	QPSK	1	0	21.97	23.92	26.07	34.77	-10.85
				1	14	21.89	23.84	25.99	34.77	-10.93
				8	4	20.94	22.89	25.04	34.77	-11.88
				15	0	20.93	22.88	25.03	34.77	-11.89
3	23025	700.5	16QAM	1	0	21.43	23.38	25.53	34.77	-11.39
				1	14	21.44	23.39	25.54	34.77	-11.38
				8	4	20.14	22.09	24.24	34.77	-12.68
				15	0	20.19	22.14	24.29	34.77	-12.63
	23095	707.5	16QAM	1	0	21.35	23.30	25.45	34.77	-11.47
				1	14	21.36	23.31	25.46	34.77	-11.46
				8	4	20.10	22.05	24.20	34.77	-12.72
				15	0	20.13	22.08	24.23	34.77	-12.69
	23165	714.5	16QAM	1	0	21.11	23.06	25.21	34.77	-11.71
				1	14	21.08	23.03	25.18	34.77	-11.74
				8	4	19.99	21.94	24.09	34.77	-12.83
				15	0	20.01	21.96	24.11	34.77	-12.81

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Antenna gain (dBi)	4.1
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LTE Band 12 Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.06	24.01	26.16	34.77	-10.76
				1	24	22.02	23.97	26.12	34.77	-10.80
				12	6	21.17	23.12	25.27	34.77	-11.65
				25	0	21.17	23.12	25.27	34.77	-11.65
	23095	707.5	QPSK	1	0	22.02	23.97	26.12	34.77	-10.80
				1	24	21.92	23.87	26.02	34.77	-10.90
				12	6	21.10	23.05	25.20	34.77	-11.72
				25	0	21.03	22.98	25.13	34.77	-11.79
	23155	713.5	QPSK	1	0	21.89	23.84	25.99	34.77	-10.93
				1	24	21.83	23.78	25.93	34.77	-10.99
				12	6	20.91	22.86	25.01	34.77	-11.91
				25	0	20.97	22.92	25.07	34.77	-11.85
5	23035	701.5	16QAM	1	0	21.33	23.28	25.43	34.77	-11.49
				1	24	21.10	23.05	25.20	34.77	-11.72
				12	6	20.20	22.15	24.30	34.77	-12.62
				25	0	20.14	22.09	24.24	34.77	-12.68
	23095	707.5	16QAM	1	0	21.14	23.09	25.24	34.77	-11.68
				1	24	20.95	22.90	25.05	34.77	-11.87
				12	6	20.13	22.08	24.23	34.77	-12.69
				25	0	20.03	21.98	24.13	34.77	-12.79
	23155	713.5	16QAM	1	0	21.09	23.04	25.19	34.77	-11.73
				1	24	21.01	22.96	25.11	34.77	-11.81
				12	6	19.95	21.90	24.05	34.77	-12.87
				25	0	20.03	21.98	24.13	34.77	-12.79

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Antenna gain (dBi)		4.1								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	22.09	24.04	26.19	34.77	-10.73
				1	49	21.96	23.91	26.06	34.77	-10.86
				25	12	21.08	23.03	25.18	34.77	-11.74
				50	0	21.09	23.04	25.19	34.77	-11.73
	23095	707.5	QPSK	1	0	22.11	24.06	26.21	34.77	-10.71
				1	49	20.87	22.82	24.97	34.77	-11.95
				25	12	20.00	21.95	24.10	34.77	-12.82
				50	0	21.07	23.02	25.17	34.77	-11.75
	23130	711	QPSK	1	0	21.89	23.84	25.99	34.77	-10.93
				1	49	21.71	23.66	25.81	34.77	-11.11
				25	12	21.01	22.96	25.11	34.77	-11.81
				50	0	21.01	22.96	25.11	34.77	-11.81
10	23060	704	16QAM	1	0	21.23	23.18	25.33	34.77	-11.59
				1	49	21.19	23.14	25.29	34.77	-11.63
				25	12	20.20	22.15	24.30	34.77	-12.62
				50	0	20.09	22.04	24.19	34.77	-12.73
	23095	707.5	16QAM	1	0	21.19	23.14	25.29	34.77	-11.63
				1	49	21.00	22.95	25.10	34.77	-11.82
				25	12	20.09	22.04	24.19	34.77	-12.73
				50	0	19.09	21.04	23.19	34.77	-13.73
	23130	711	16QAM	1	0	21.10	23.05	25.20	34.77	-11.72
				1	49	20.87	22.82	24.97	34.77	-11.95
				25	12	20.05	22.00	24.15	34.77	-12.77
				50	0	17.06	19.01	21.16	34.77	-15.76

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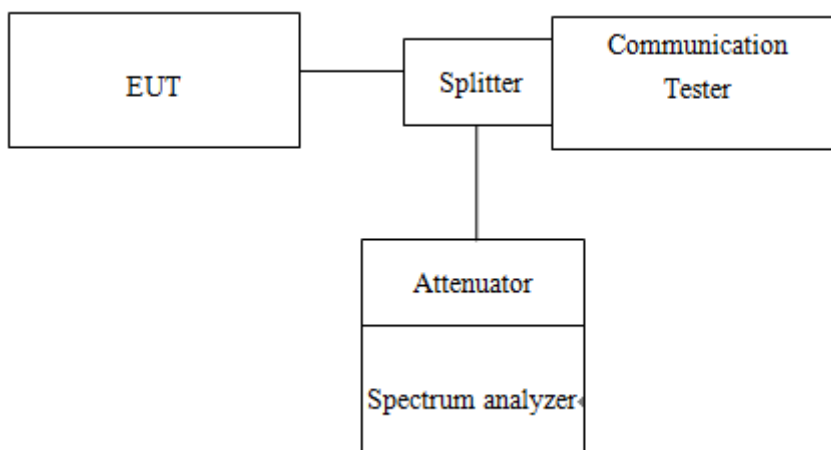
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7 OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

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

7.2 Test Set-up



7.3 Measurement Procedure

99% &26dB Bandwidth with detector peak

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

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7.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/12/2021	05/11/2022
Radio Communication Analyer	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021

7.5 Measurement Result

LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0904	1.0880	1.328	1.287
1880.0	18900	1.8930	1.0867	1.308	1.293
1909.3	19193	1.9080	1.0894	1.312	1.303

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.6855	2.6901	2.933	2.976
1880.0	18900	2.6844	2.6889	2.927	2.973
1908.5	19185	2.6875	2.6926	2.931	2.983

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.4891	4.4845	5.000	4.982
1880.0	18900	4.4900	4.4802	5.029	5.005
1907.5	19175	4.4777	4.4700	5.016	4.968

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	8.9756	8.9778	10.140	10.000
1880.0	18900	8.9602	8.9506	10.180	10.030
1905.0	19150	8.9654	8.9429	10.070	9.894

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.496	13.476	15.32	15.47
1880.0	18900	13.445	13.446	15.39	15.61
1902.5	19125	13.448	13.468	15.34	15.65

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.941	17.974	20.34	20.31
1880.0	18900	17.918	17.931	20.26	20.18
1900.0	19100	17.922	17.940	20.28	20.21

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LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.0902	1.0886	1.310	1.308
1732.5	20175	1.0902	1.0881	1.356	1.313
1754.3	20393	1.0890	1.0874	1.306	1.301

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6864	2.6927	2.938	2.993
1732.5	20175	2.6861	2.6916	2.958	2.977
1753.5	20385	2.6875	2.6932	2.948	2.992

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19975	4.4816	4.4845	5.027	4.999
1732.5	20175	4.4836	4.4846	5.028	4.979
1752.5	20375	4.4777	4.4841	5.043	4.958

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9666	8.9462	10.280	10.040
1732.5	20175	9.0035	8.9482	10.210	10.070
1750.0	20350	8.9982	8.9636	10.190	10.120

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.481	13.473	15.30	15.73
1732.5	20175	13.448	13.454	15.49	15.60
1747.5	20325	13.496	13.472	15.40	15.62

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.922	17.950	20.25	20.33
1732.5	20175	17.890	17.912	20.22	20.03
1745.0	20300	17.946	17.964	20.24	20.17

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0882	1.0876	1.302	1.298
707.5	23095	1.0880	1.0872	1.308	1.309
715.3	23173	1.0894	1.0881	1.300	1.302

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.6864	2.6909	2.960	2.990
707.5	23095	2.6888	2.6924	2.964	2.983
714.5	23165	2.6871	2.6927	2.961	2.969

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.4839	4.4849	5.022	4.962
707.5	23095	4.4851	4.4880	5.006	4.982
713.5	23155	4.4726	4.4707	4.991	4.932

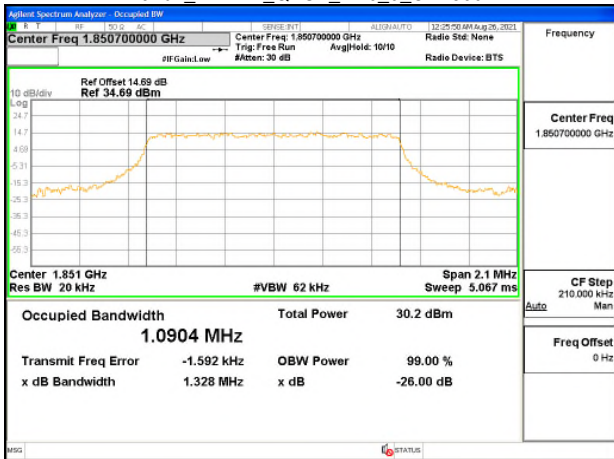
LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	8.9950	8.9584	10.230	10.020
707.5	23095	8.9920	8.9698	10.200	9.968
711.0	23130	8.9591	8.9253	9.952	9.833

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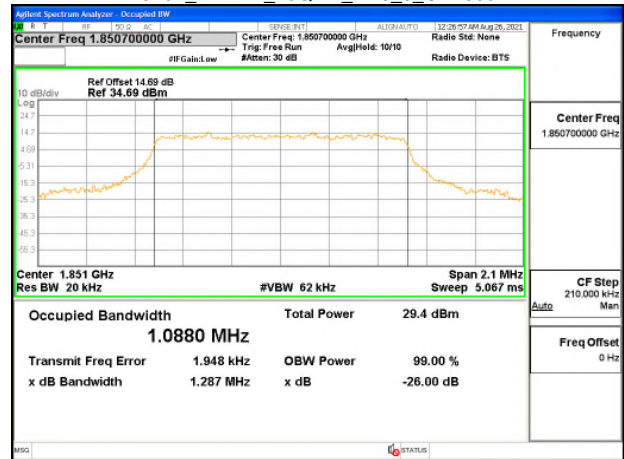
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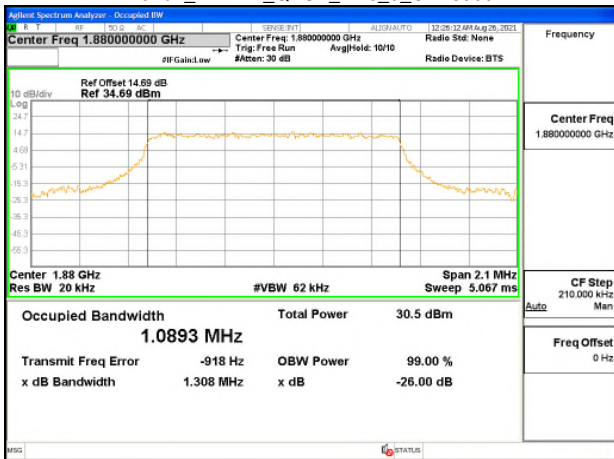
Band2_1.4MHz_QPSK_RB6_0_CH18607



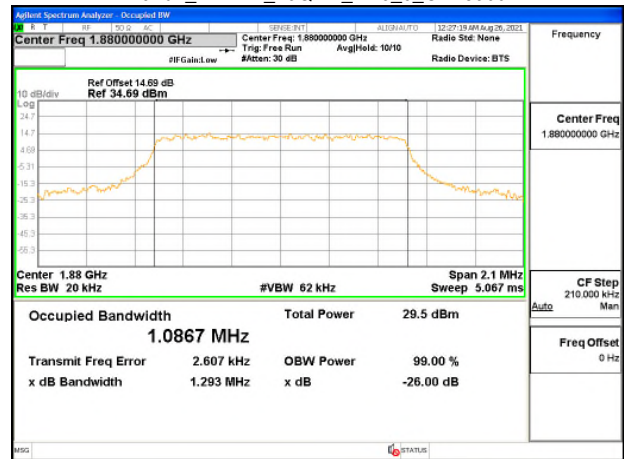
Band2_1.4MHz_16QAM_RB6_0_CH18607



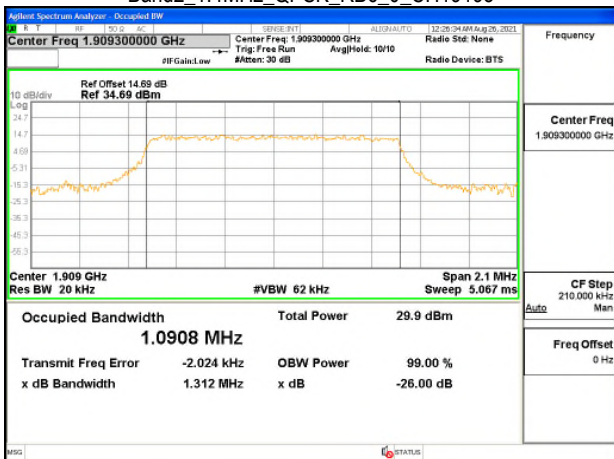
Band2_1.4MHz_QPSK_RB6_0_CH18900



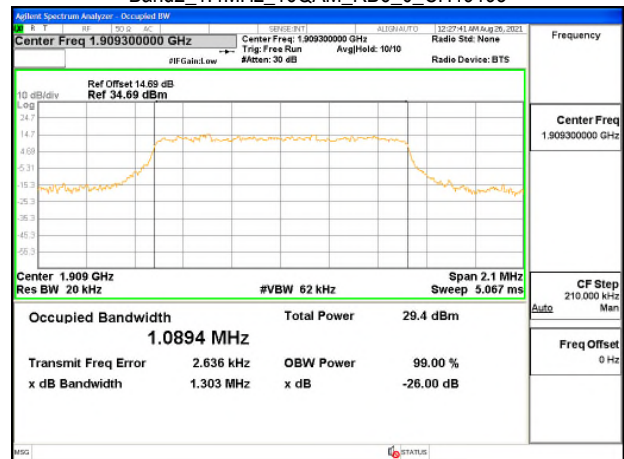
Band2_1.4MHz_16QAM_RB6_0_CH18900



Band2_1.4MHz_QPSK_RB6_0_CH19193



Band2_1.4MHz_16QAM_RB6_0_CH19193

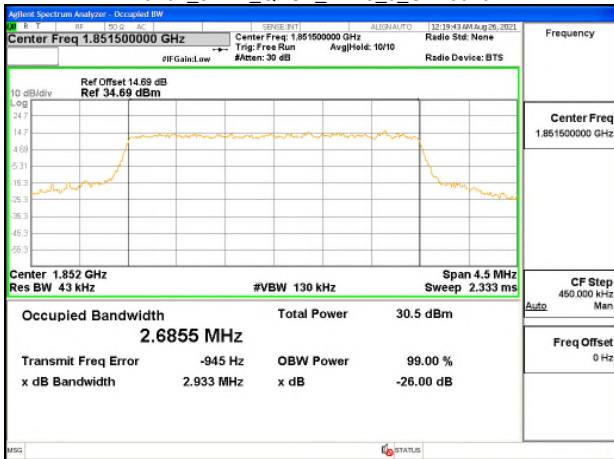


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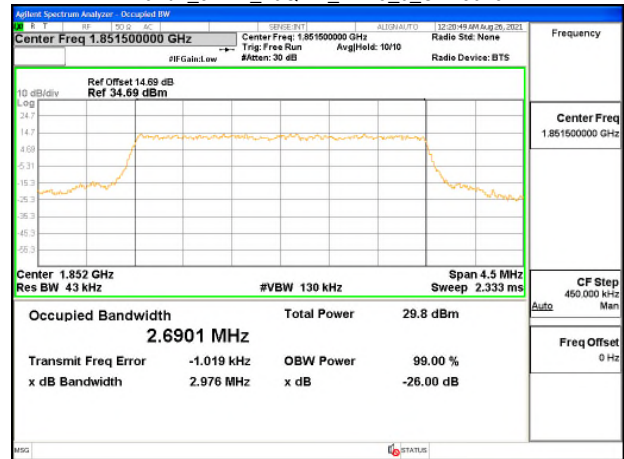
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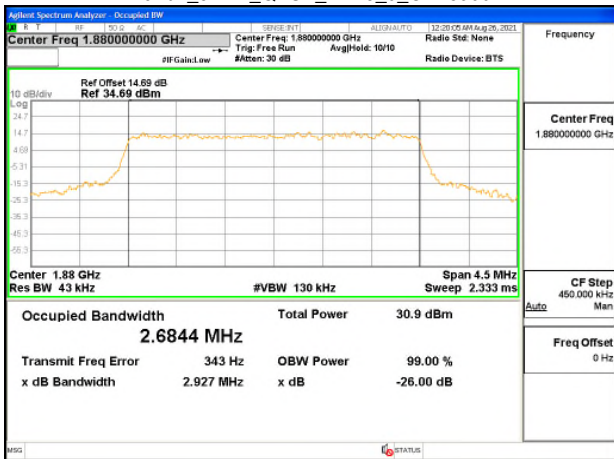
Band2_3MHz_QPSK_RB15_0_CH18615



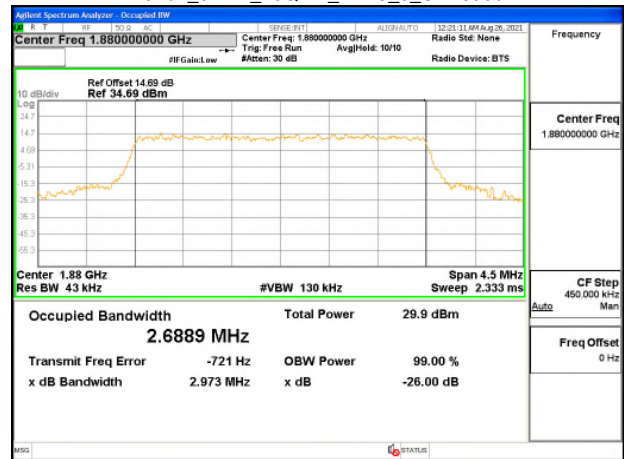
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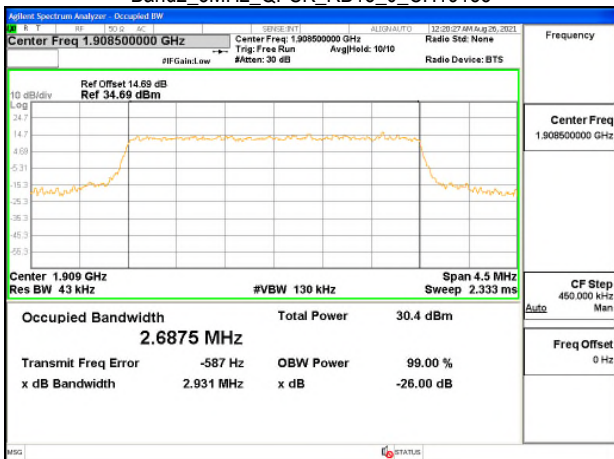
Band2_3MHz_QPSK_RB15_0_CH18900



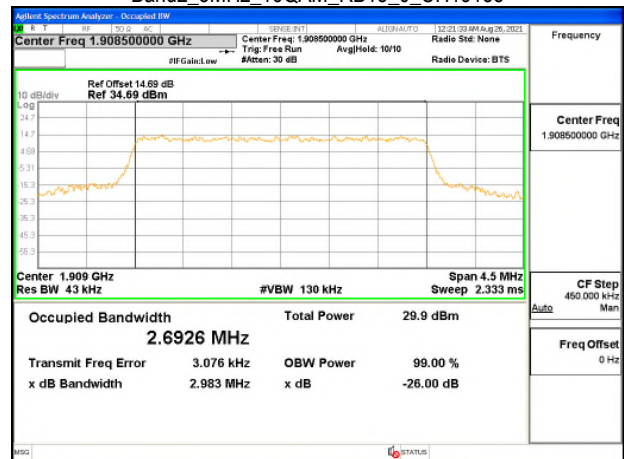
Band2_3MHz_16QAM_RB15_0_CH18900



Band2_3MHz_QPSK_RB15_0_CH19185



Band2_3MHz_16QAM_RB15_0_CH19185

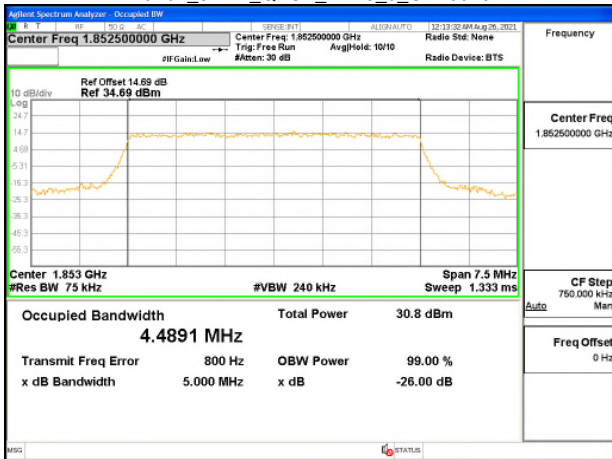


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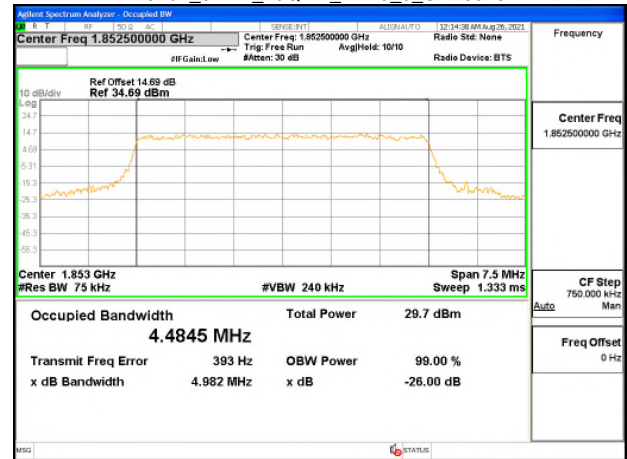
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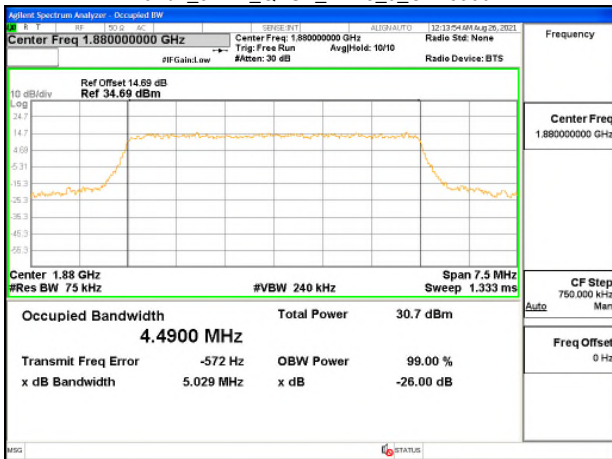
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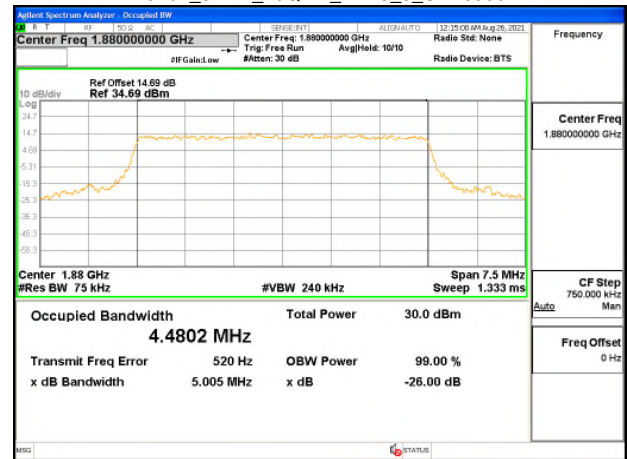
Band2_5MHz_16QAM_RB25_0_CH18625



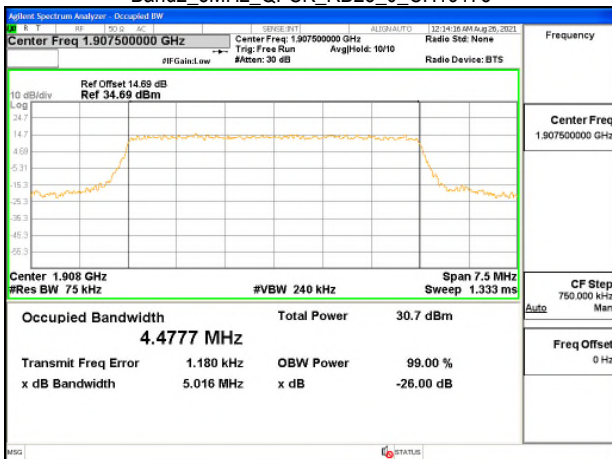
Band2_5MHz_QPSK_RB25_0_CH18900



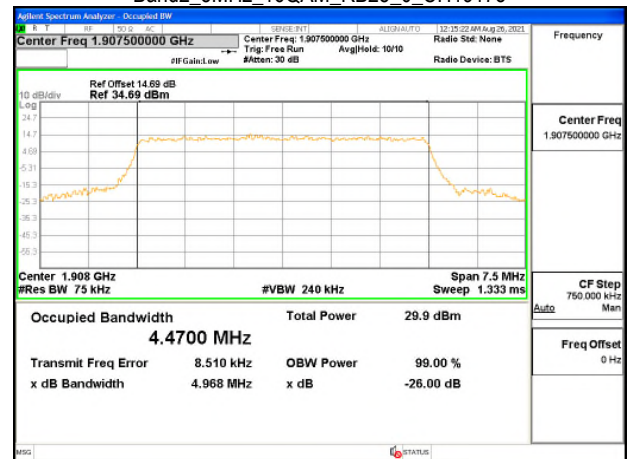
Band2_5MHz_16QAM_RB25_0_CH18900



Band2_5MHz_QPSK_RB25_0_CH19175



Band2_5MHz_16QAM_RB25_0_CH19175

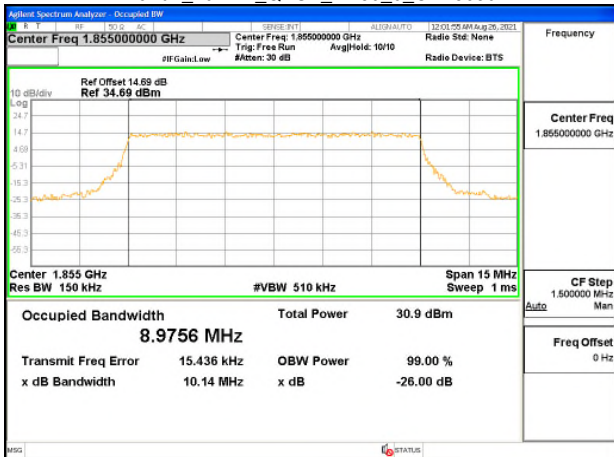


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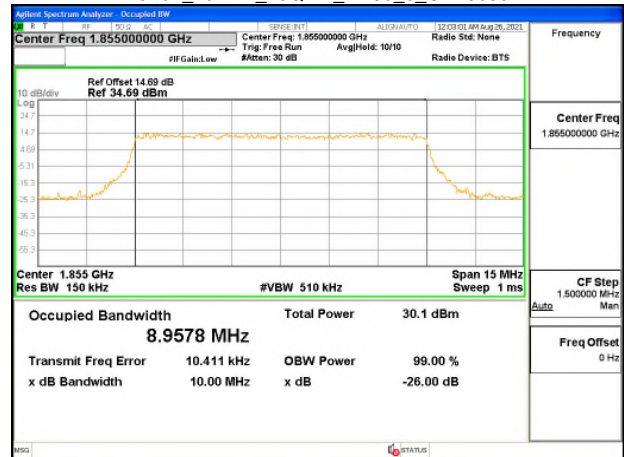
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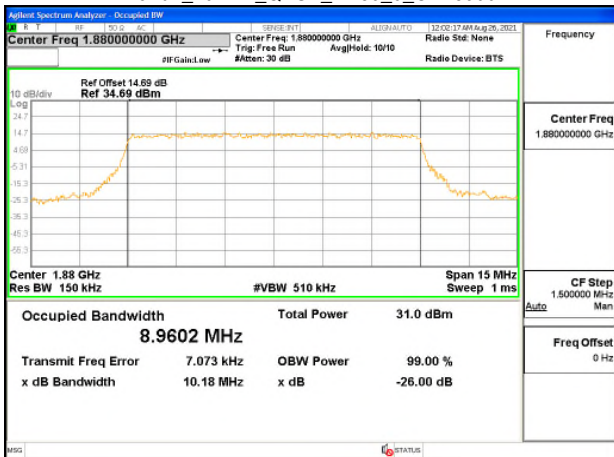
Band2_10MHz_QPSK_RB50_0_CH18650



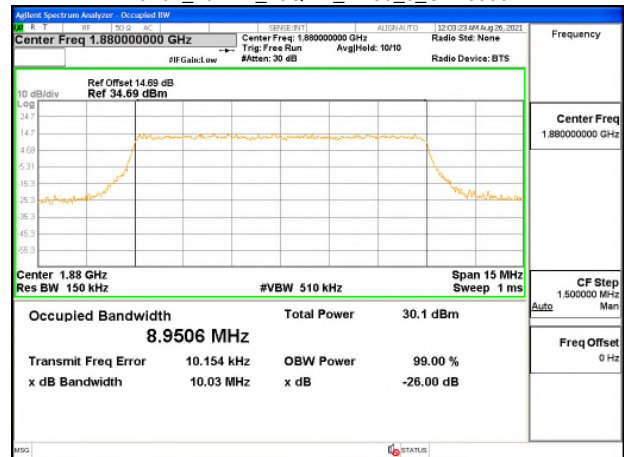
Band2_10MHz_16QAM_RB50_0_CH18650



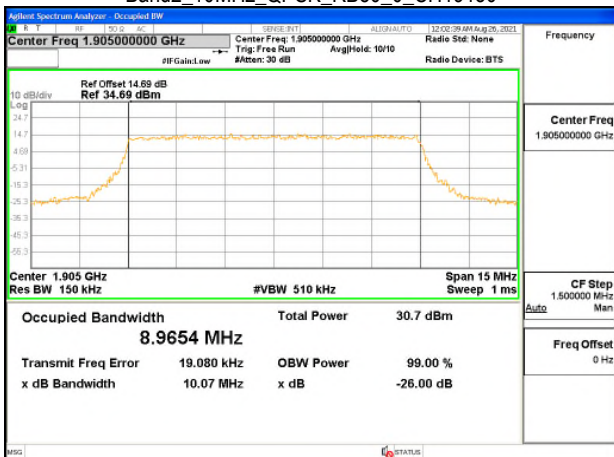
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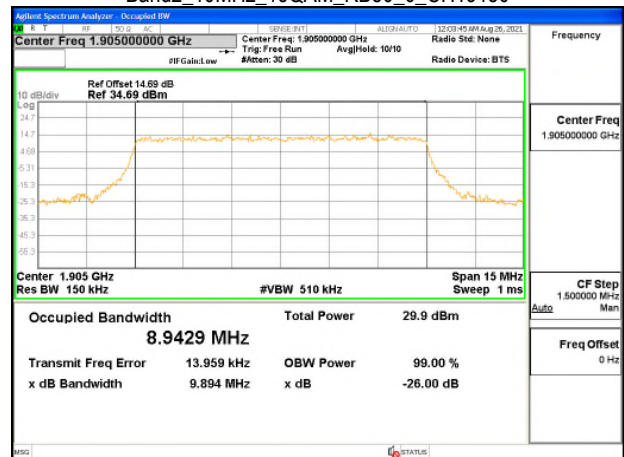
Band2_10MHz_16QAM_RB50_0_CH18900



Band2_10MHz_QPSK_RB50_0_CH19150



Band2_10MHz_16QAM_RB50_0_CH19150

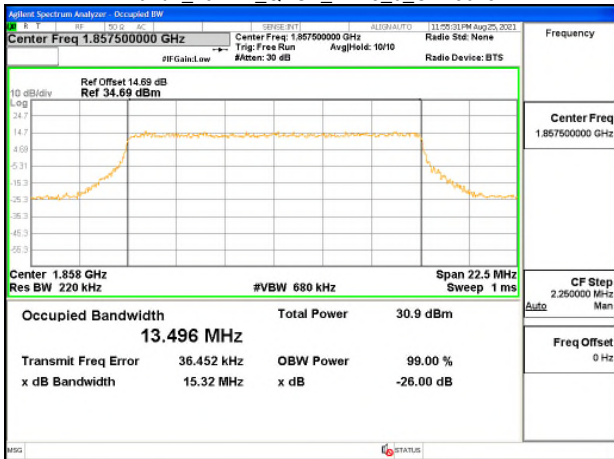


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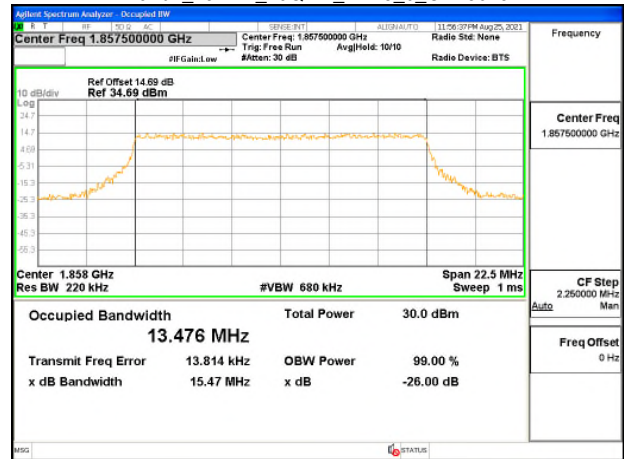
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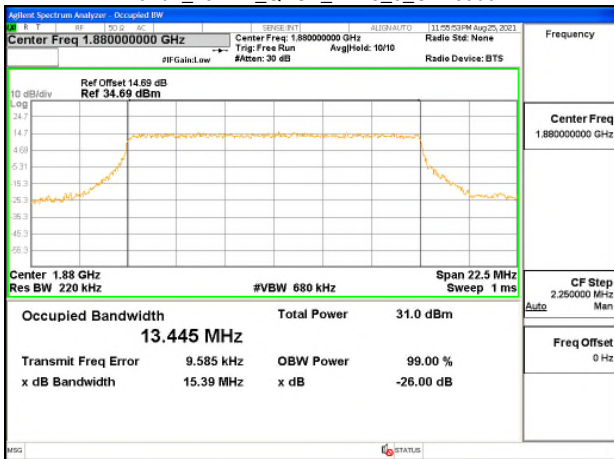
Band2_15MHz_QPSK_RB75_0_CH18675



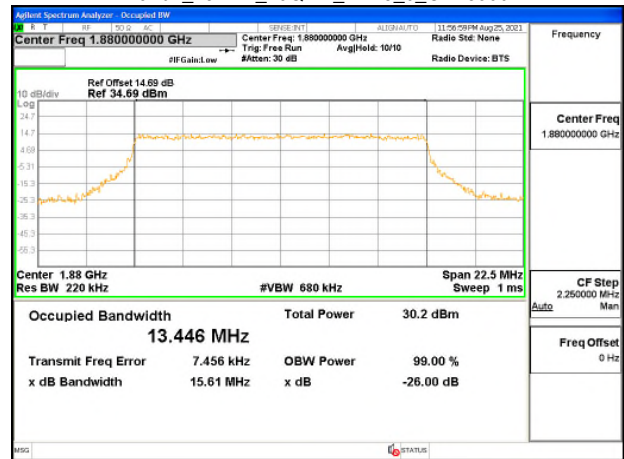
Band2_15MHz_16QAM_RB75_0_CH18675



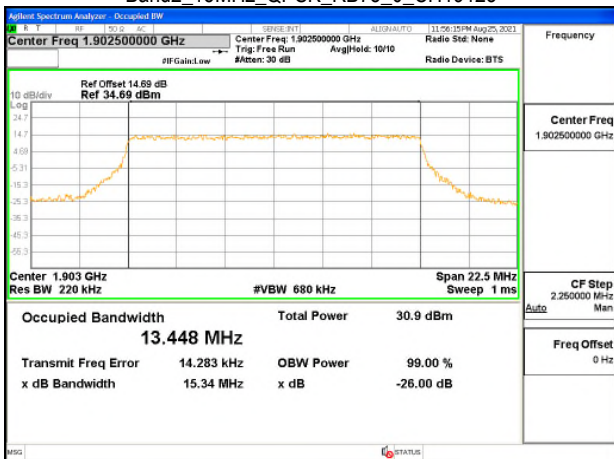
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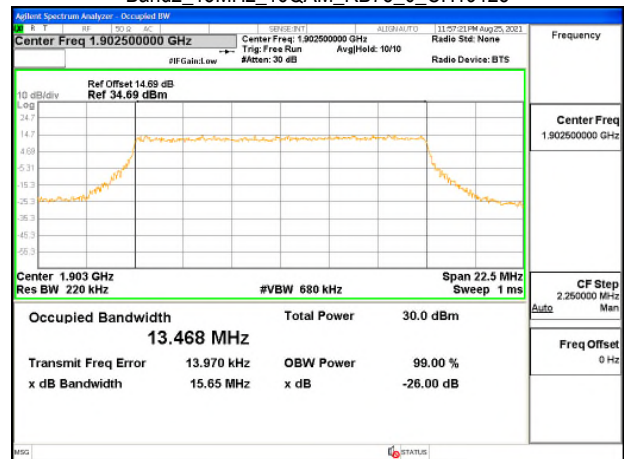
Band2_15MHz_16QAM_RB75_0_CH18900



Band2_15MHz_QPSK_RB75_0_CH19125



Band2_15MHz_16QAM_RB75_0_CH19125

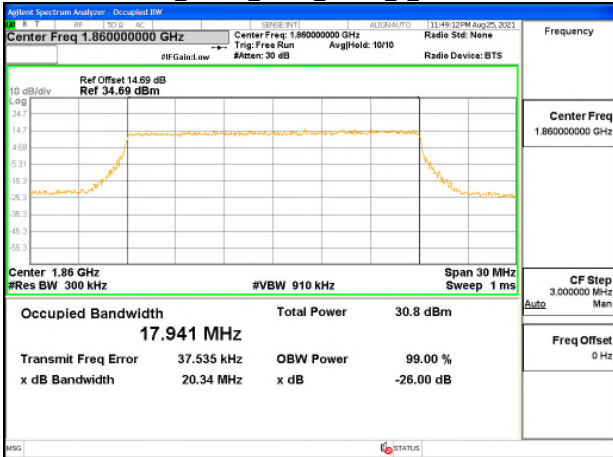


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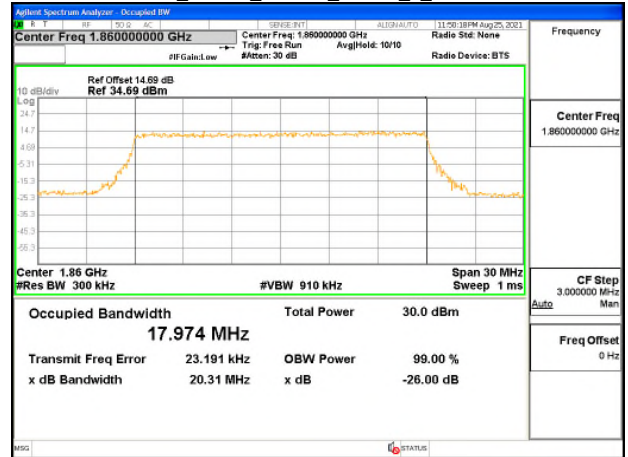
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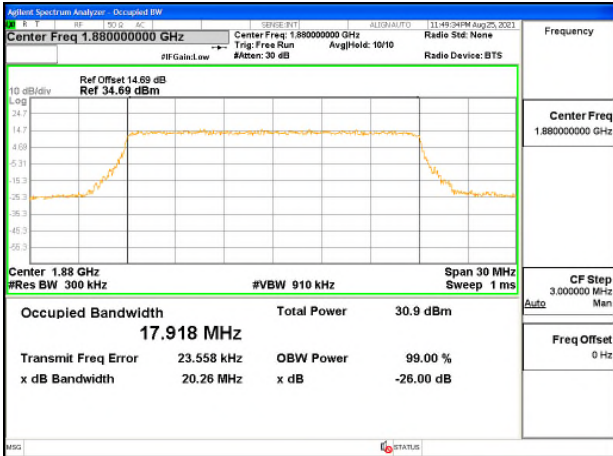
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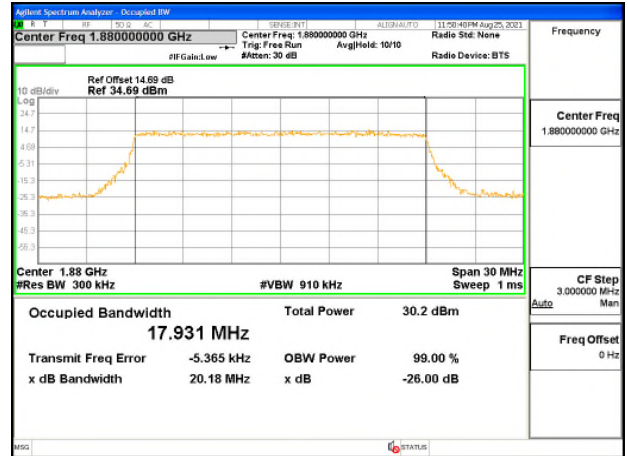
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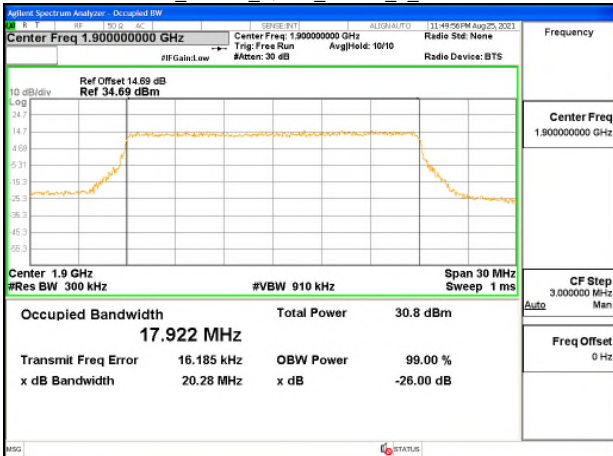
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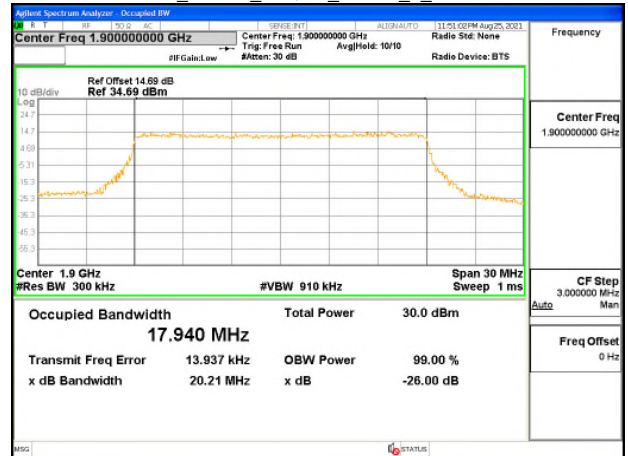
Band2_20MHz_16QAM_RB100_0_CH18900



Band2_20MHz_QPSK_RB100_0_CH19100



Band2_20MHz_16QAM_RB100_0_CH19100

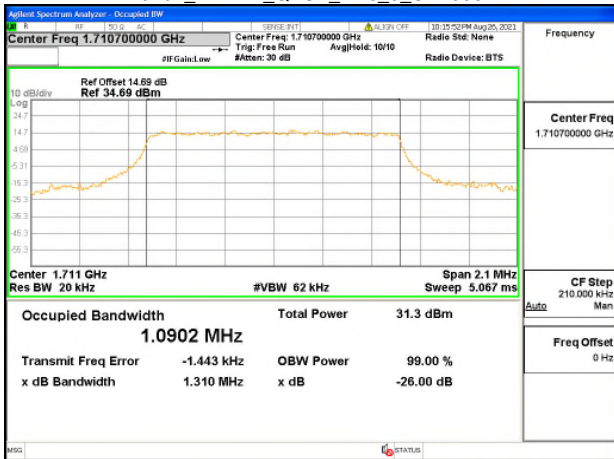


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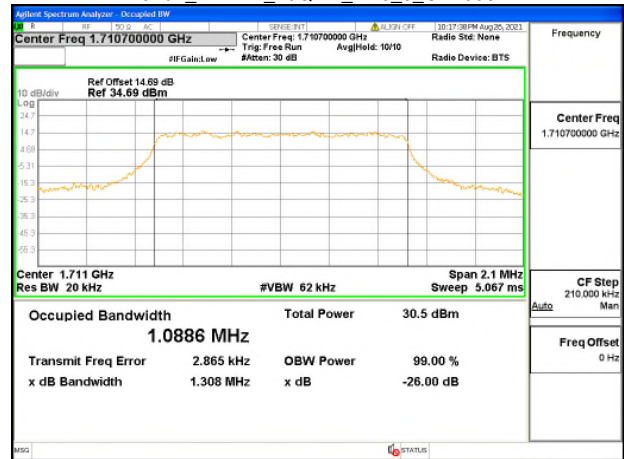
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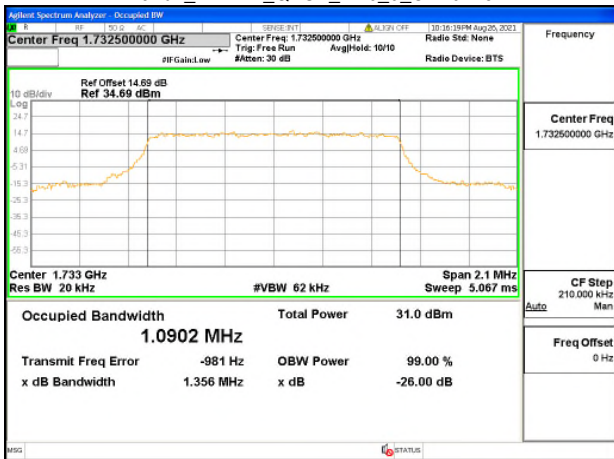
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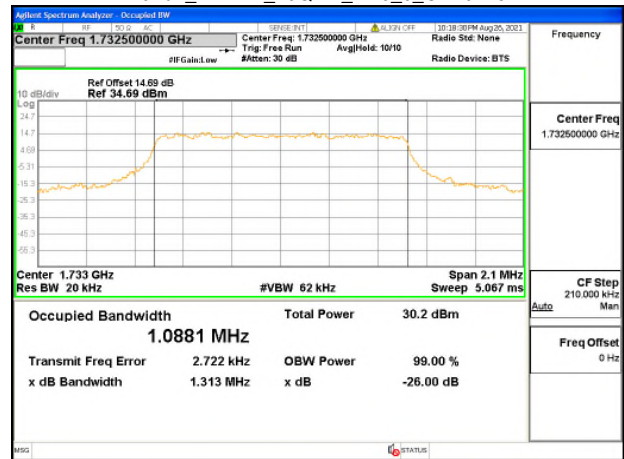
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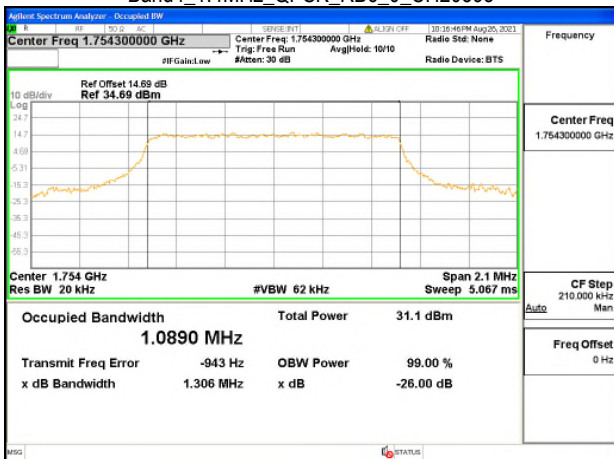
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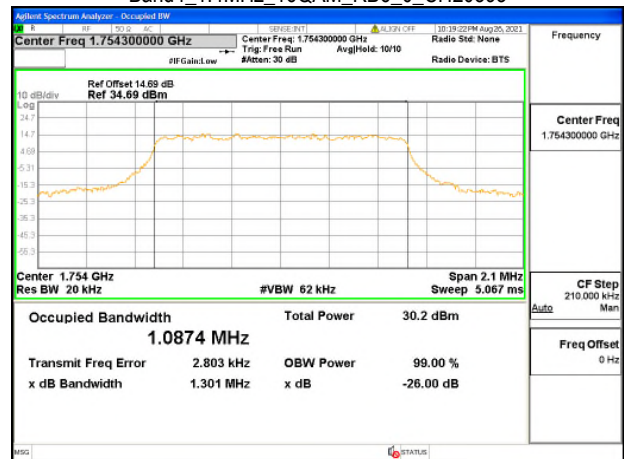
Band4_1.4MHz_16QAM_RB6_0_CH20175



Band4_1.4MHz_QPSK_RB6_0_CH20393



Band4_1.4MHz_16QAM_RB6_0_CH20393

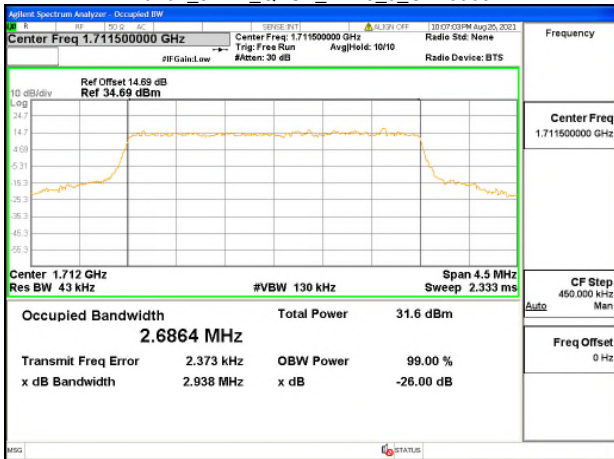


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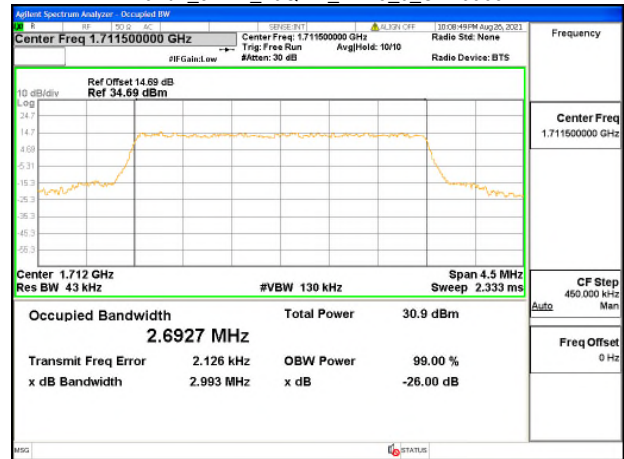
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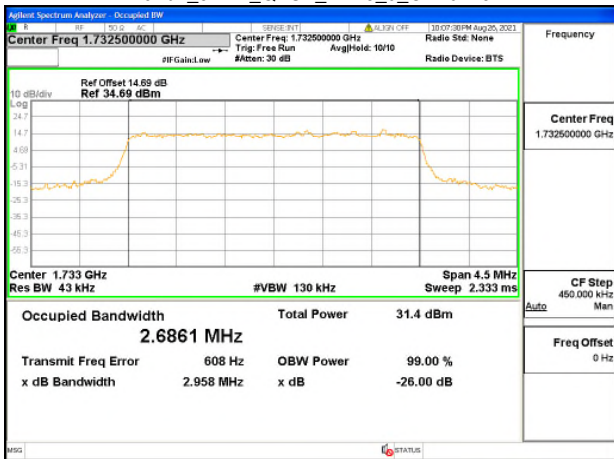
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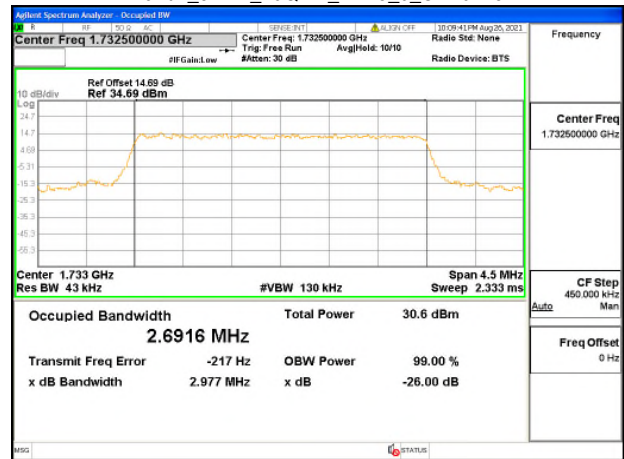
Band4_3MHz_16QAM_RB15_0_CH19965



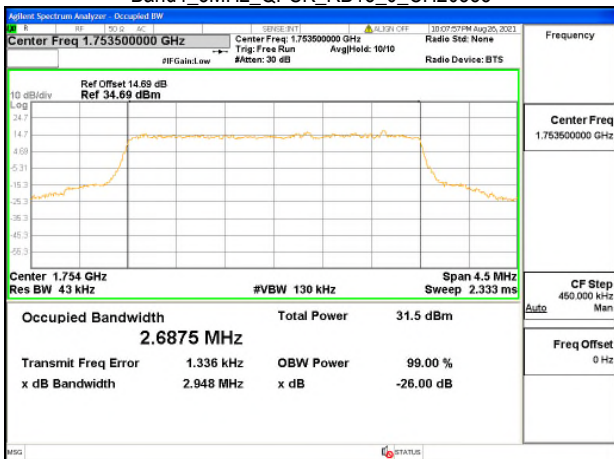
Band4_3MHz_QPSK_RB15_0_CH20175



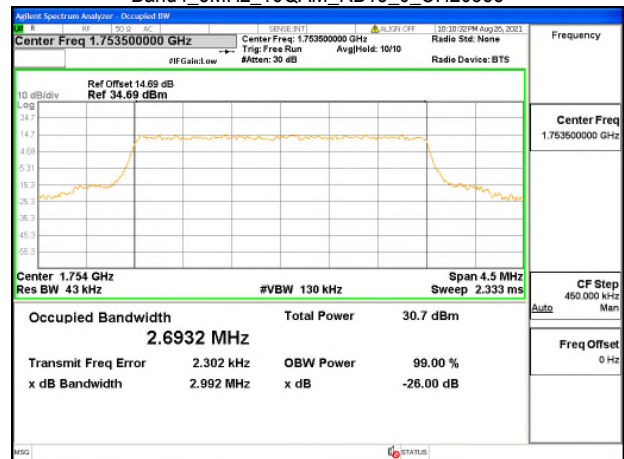
Band4_3MHz_16QAM_RB15_0_CH20175



Band4_3MHz_QPSK_RB15_0_CH20385



Band4_3MHz_16QAM_RB15_0_CH20385

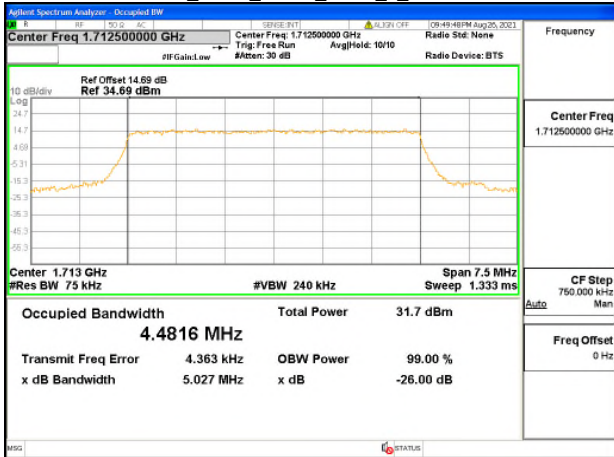


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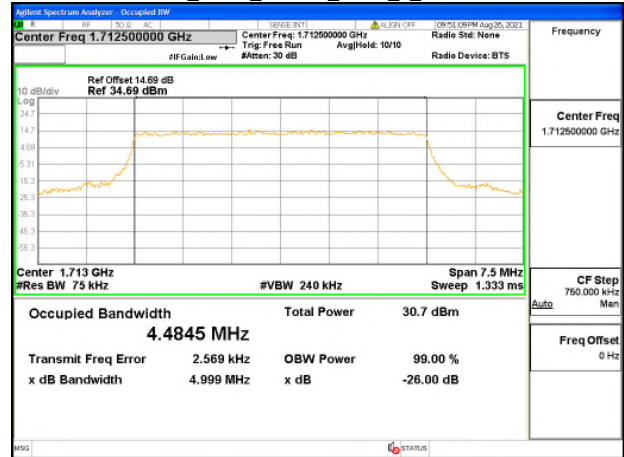
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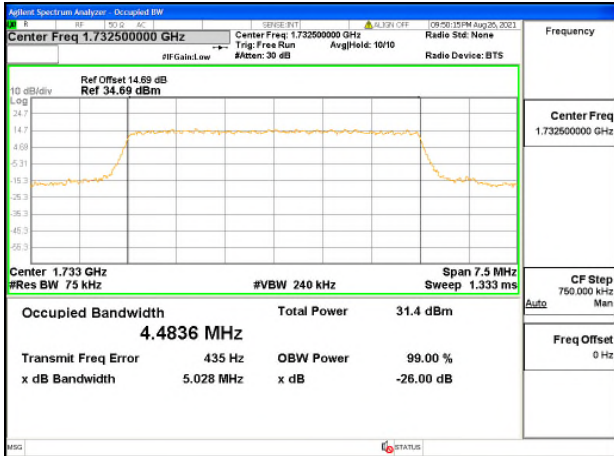
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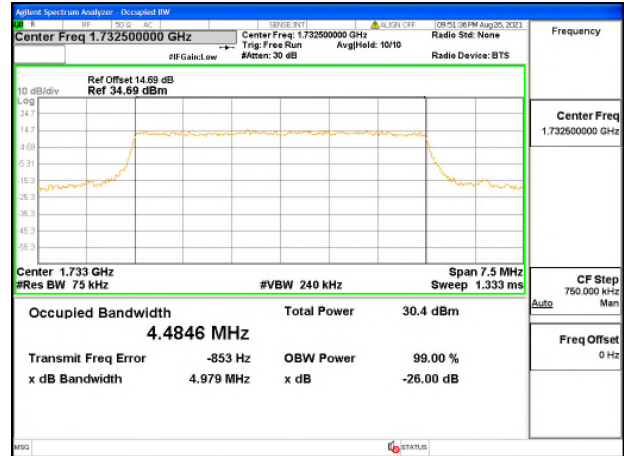
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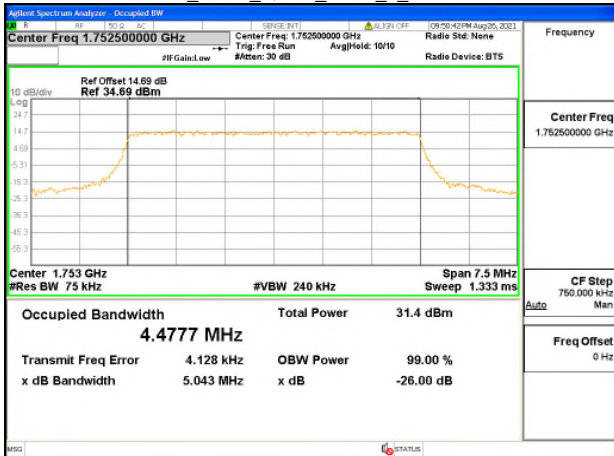
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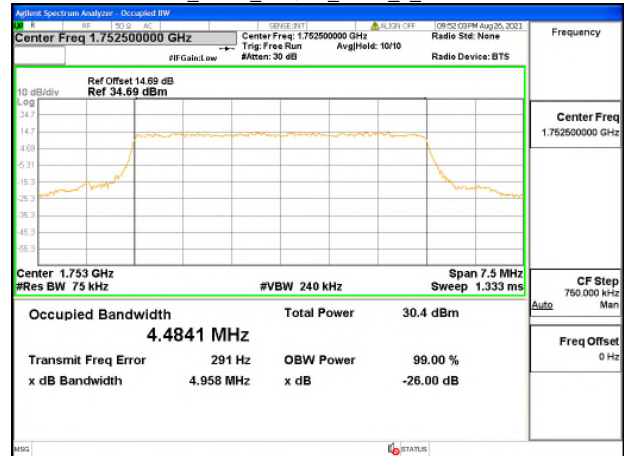
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Band4_5MHz_QPSK_RB25_0_CH20375



Band4_5MHz_16QAM_RB25_0_CH20375

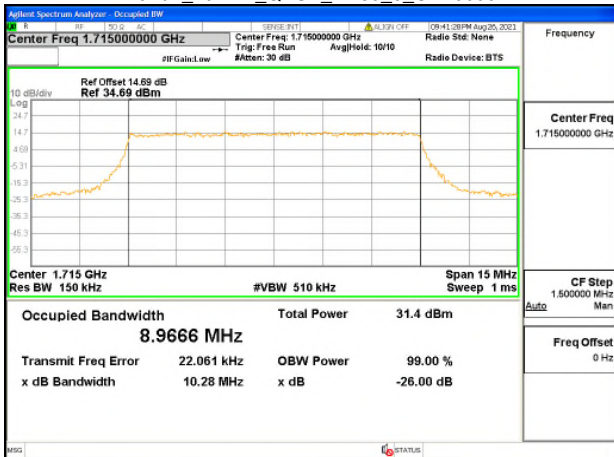


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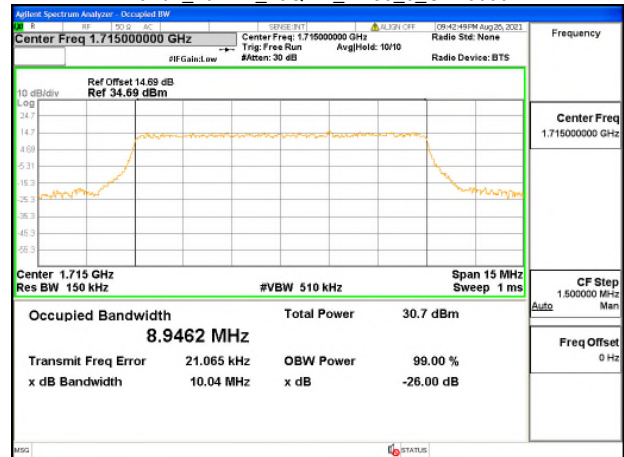
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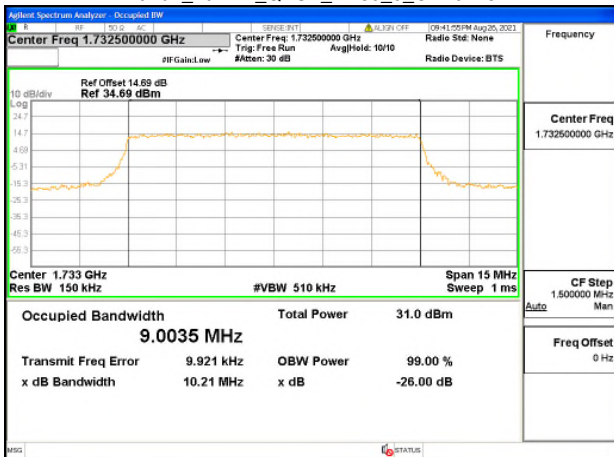
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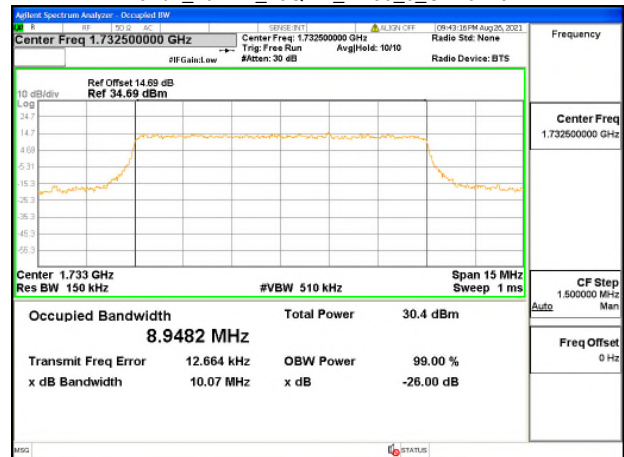
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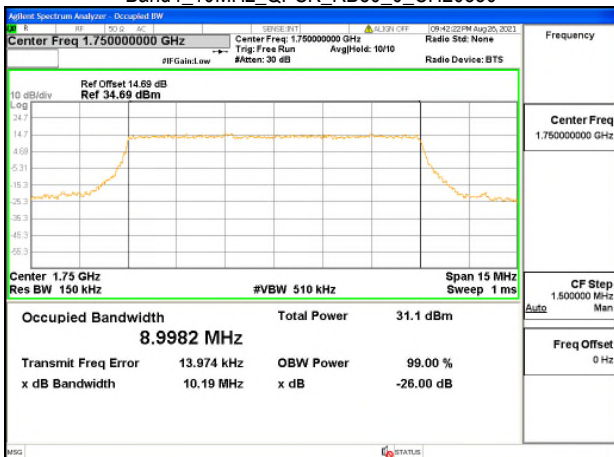
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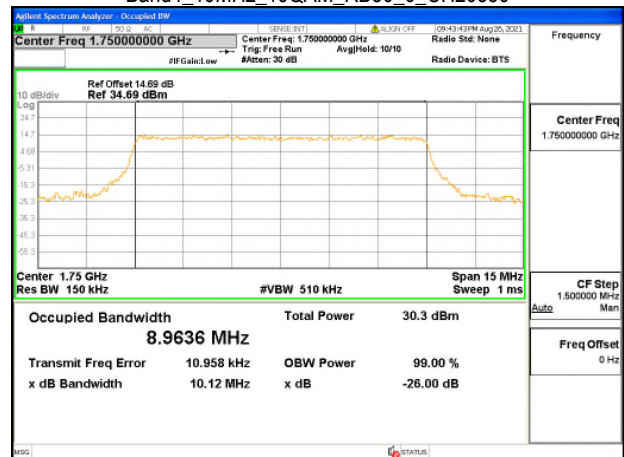
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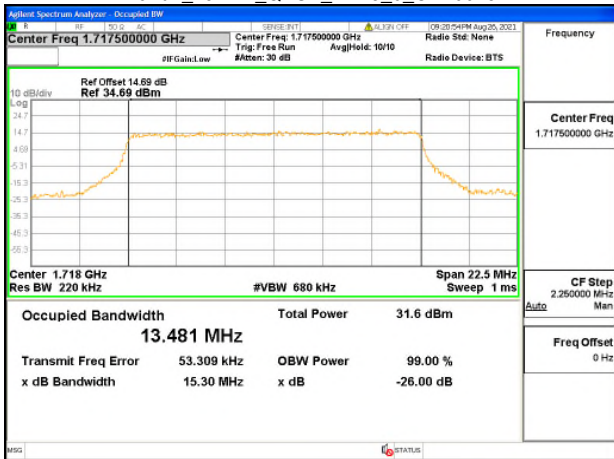


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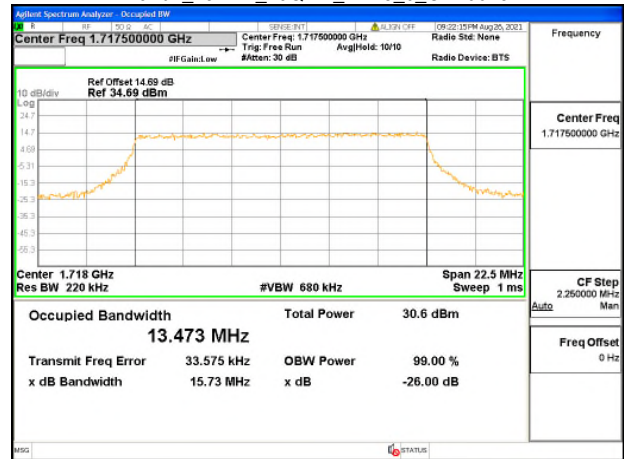
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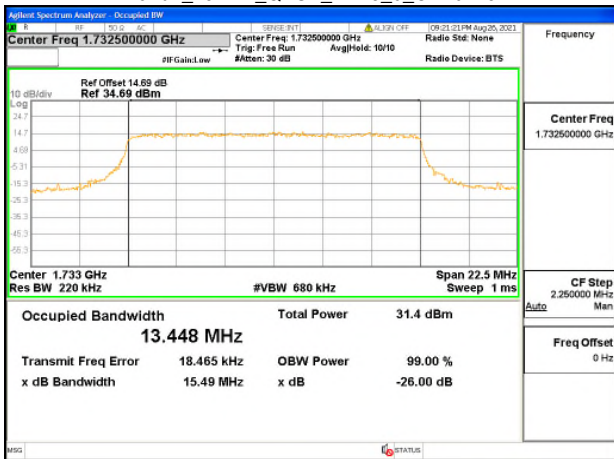
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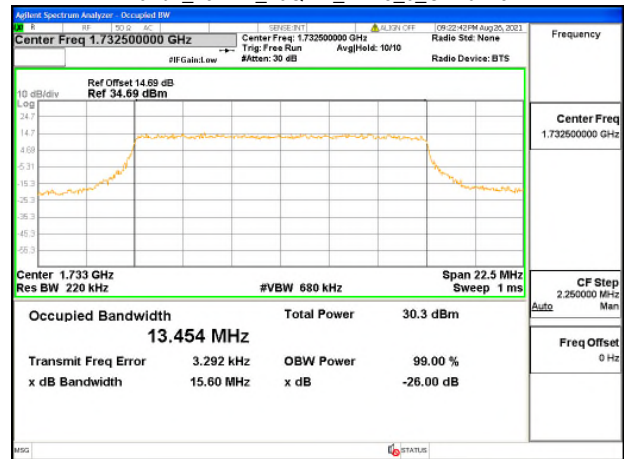
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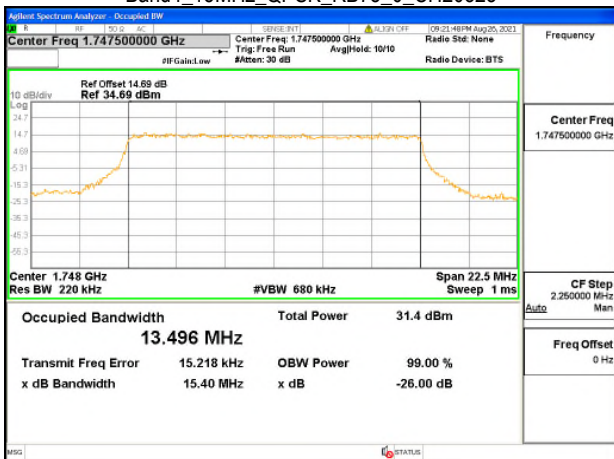
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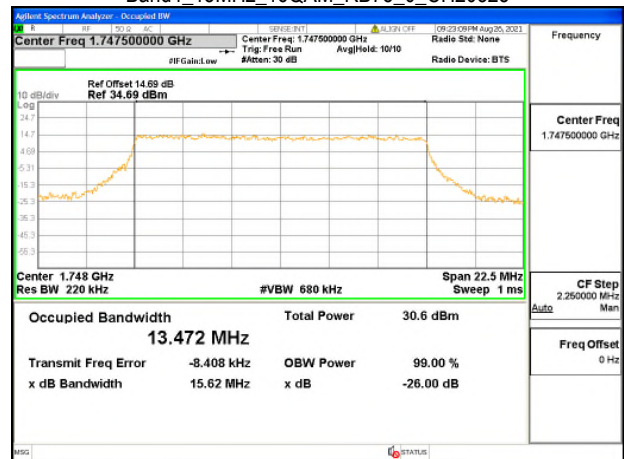
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Band4_15MHz_QPSK_RB75_0_CH20325



Band4_15MHz_16QAM_RB75_0_CH20325

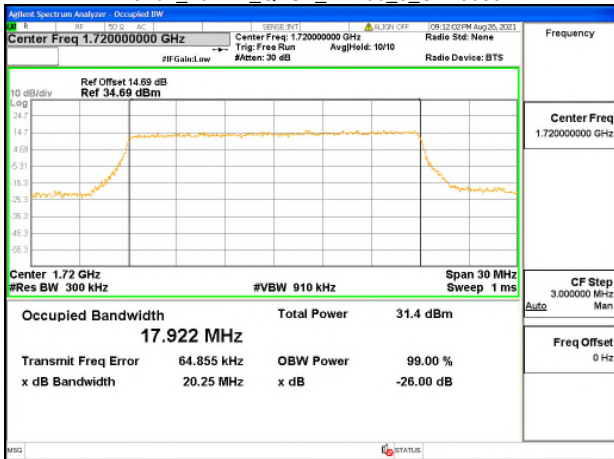


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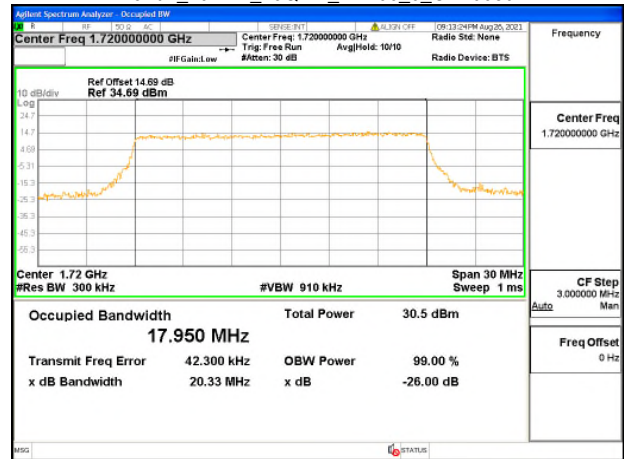
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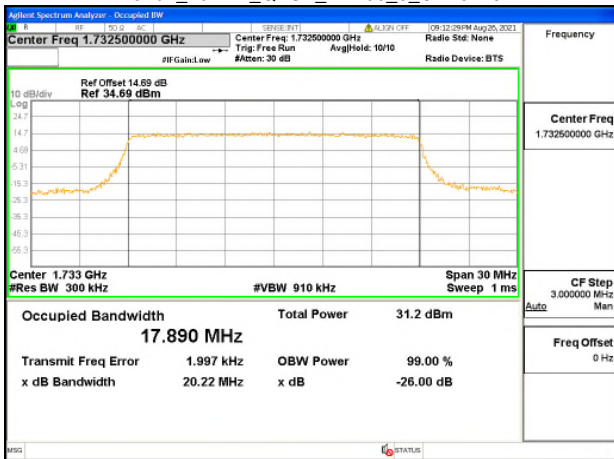
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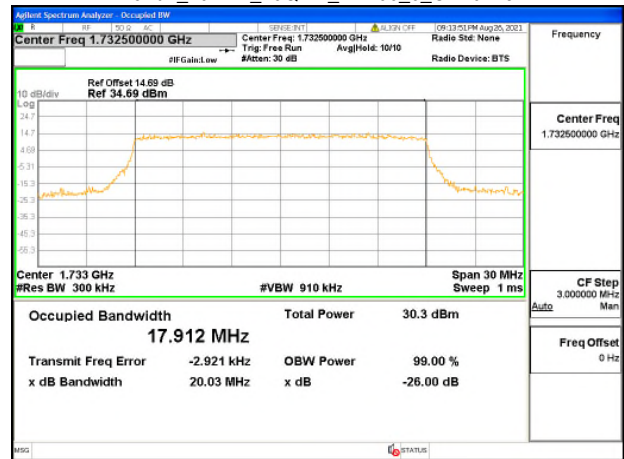
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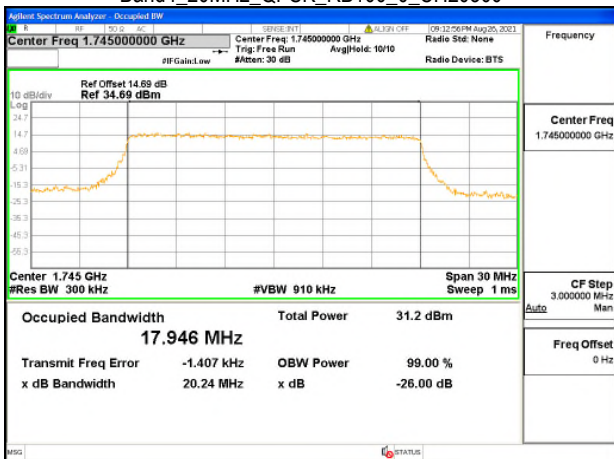
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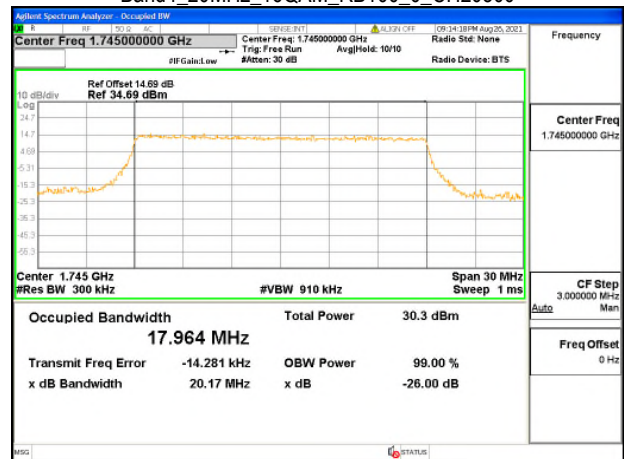
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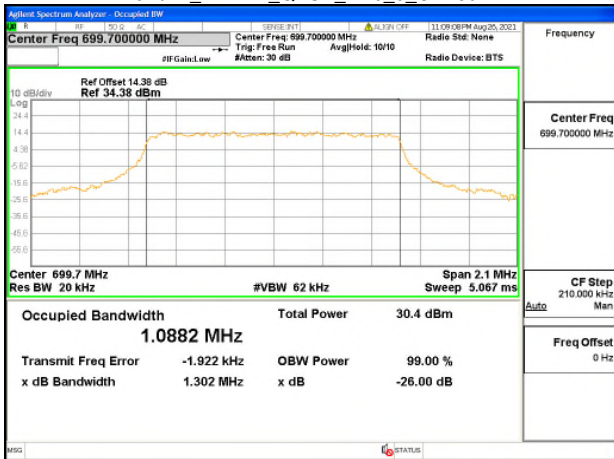


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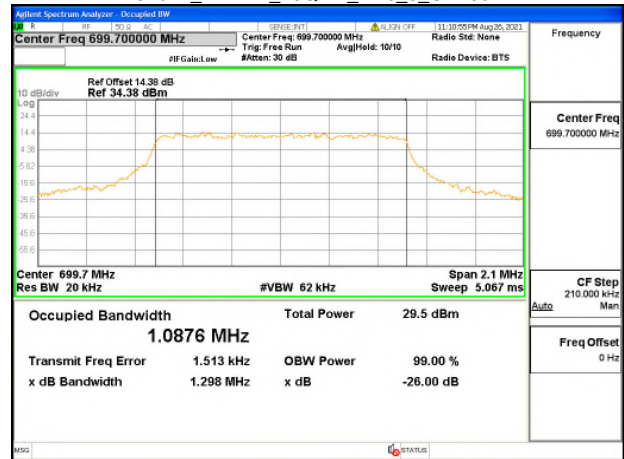
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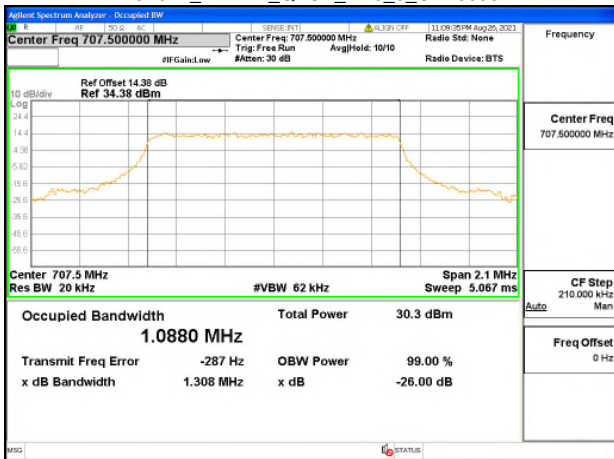
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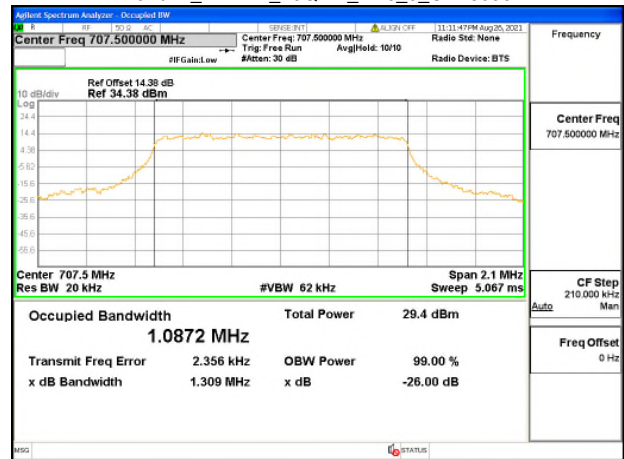
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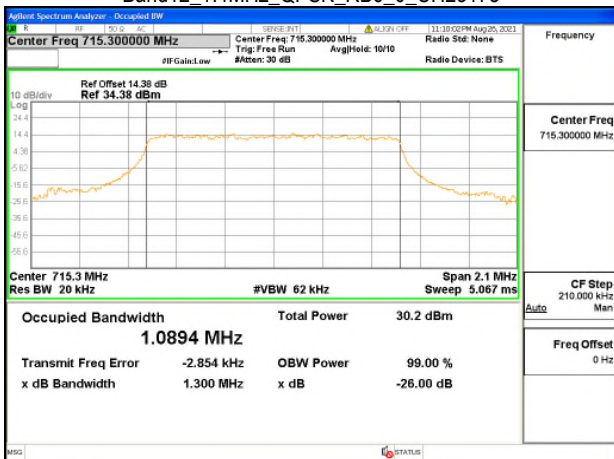
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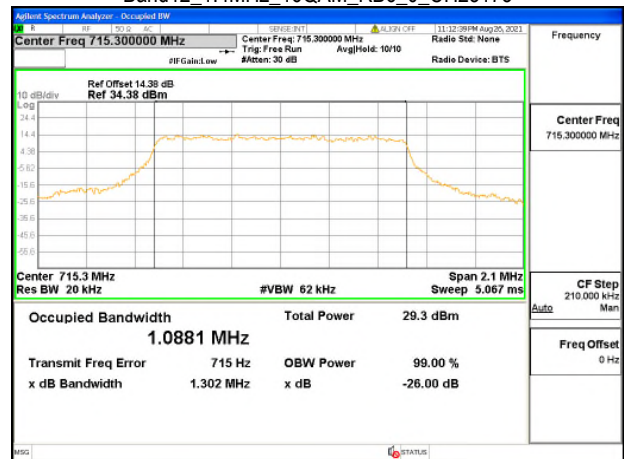
Band12_1.4MHz_16QAM_RB6_0_CH23095



Band12_1.4MHz_QPSK_RB6_0_CH23173



Band12_1.4MHz_16QAM_RB6_0_CH23173

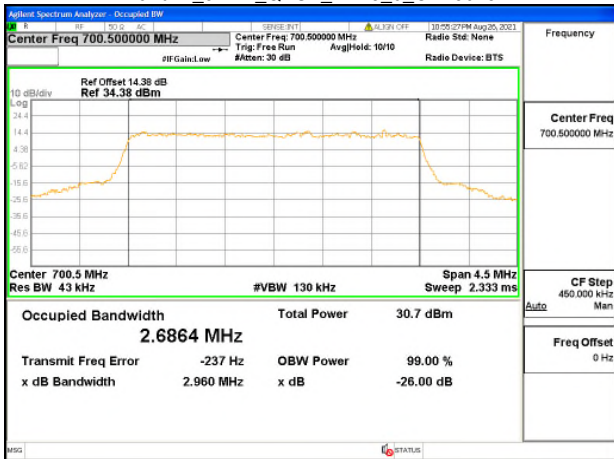


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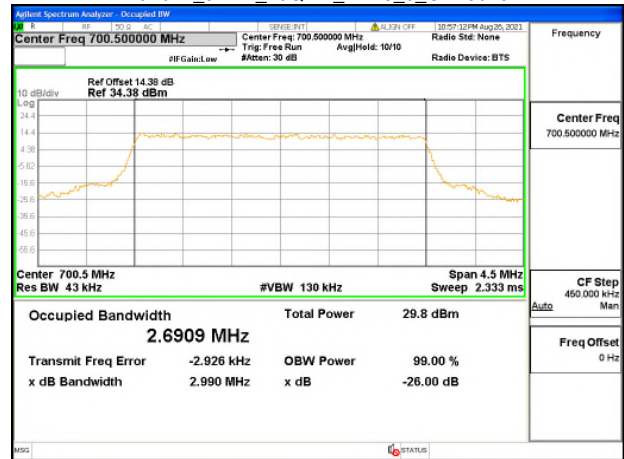
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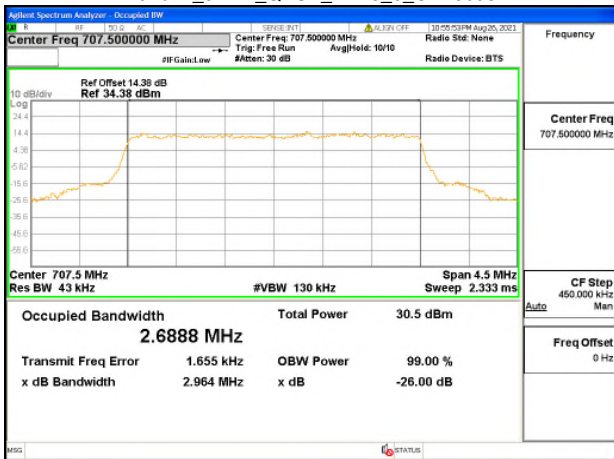
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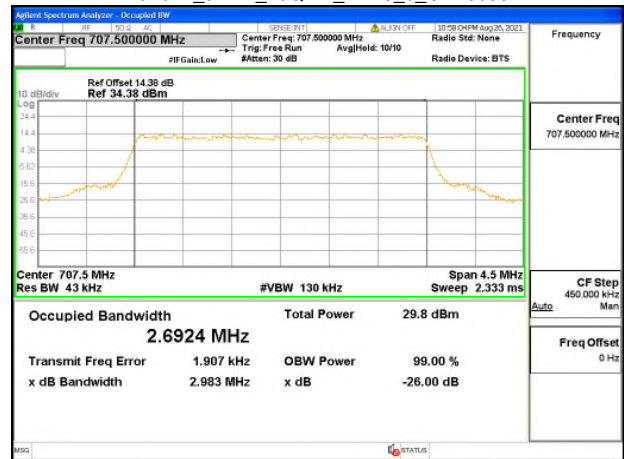
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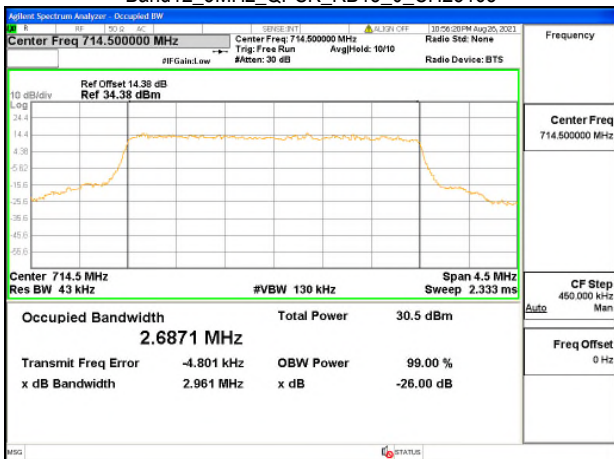
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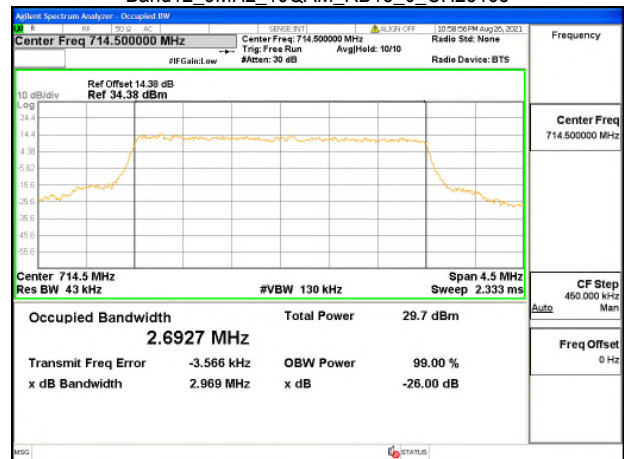
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Band12_3MHz_QPSK_RB15_0_CH23165



Band12_3MHz_16QAM_RB15_0_CH23165

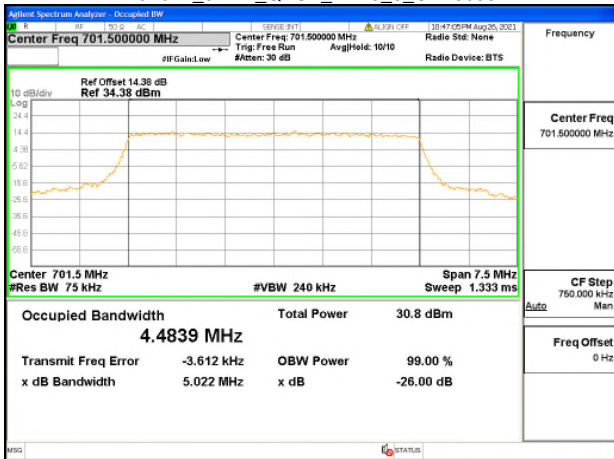


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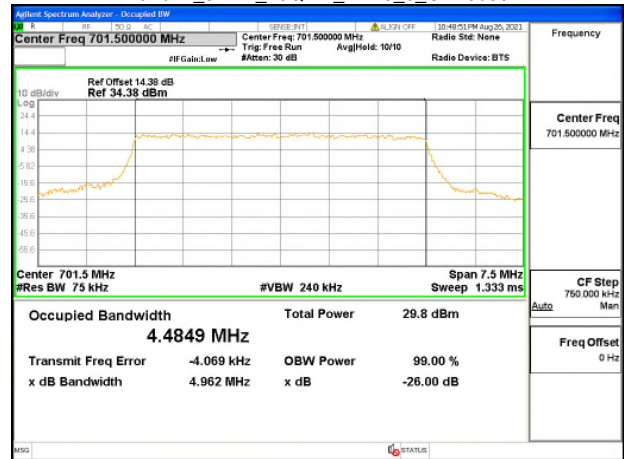
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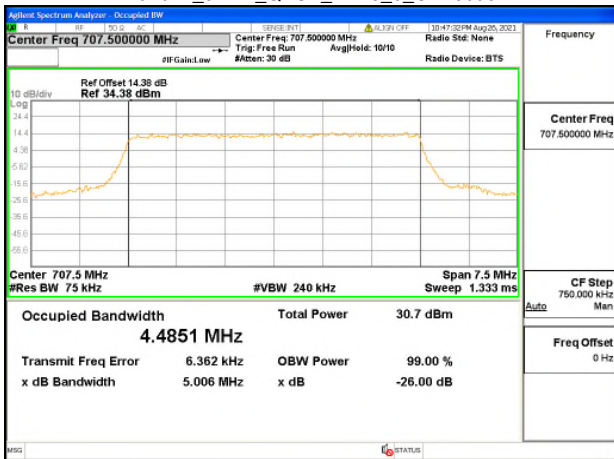
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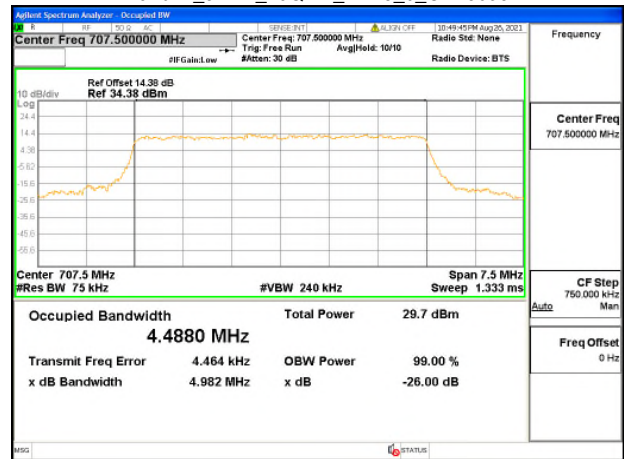
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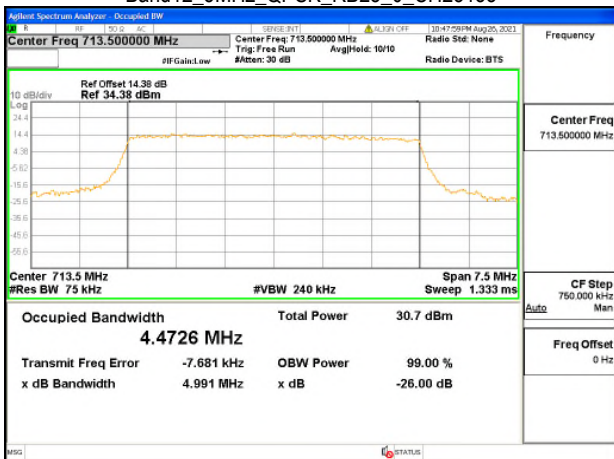
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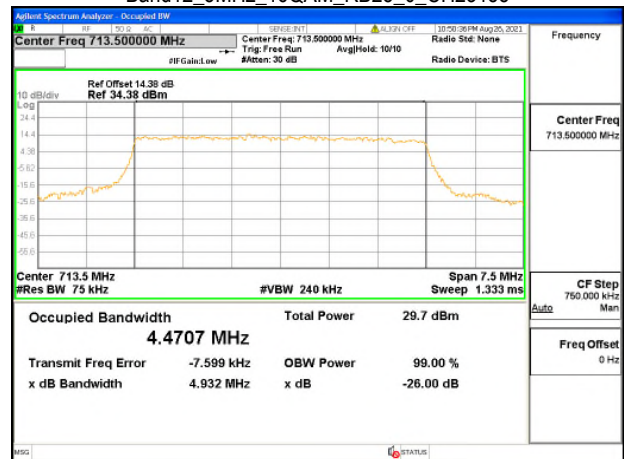
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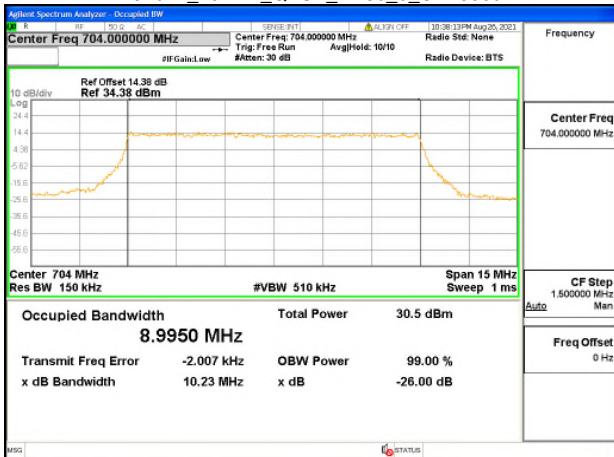


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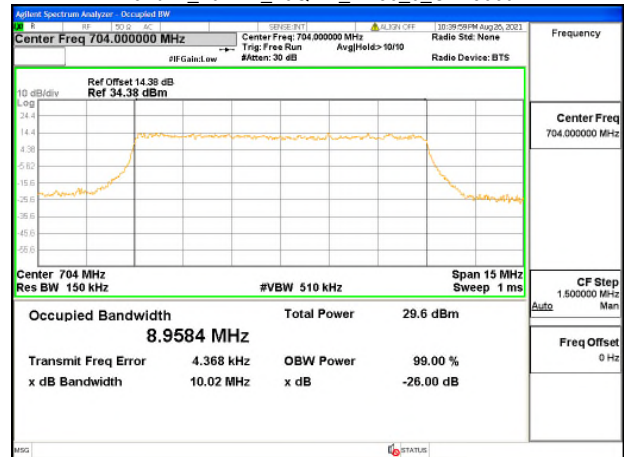
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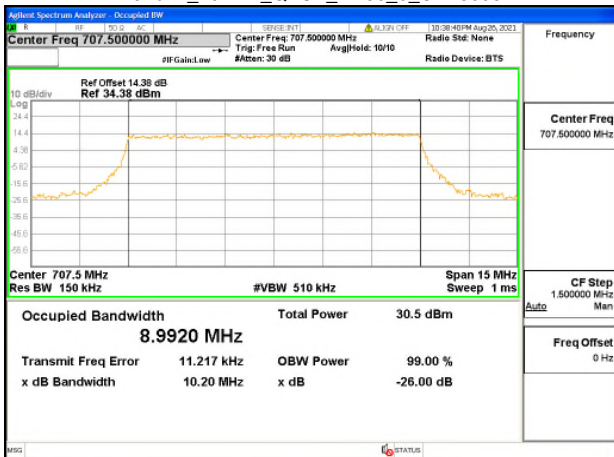
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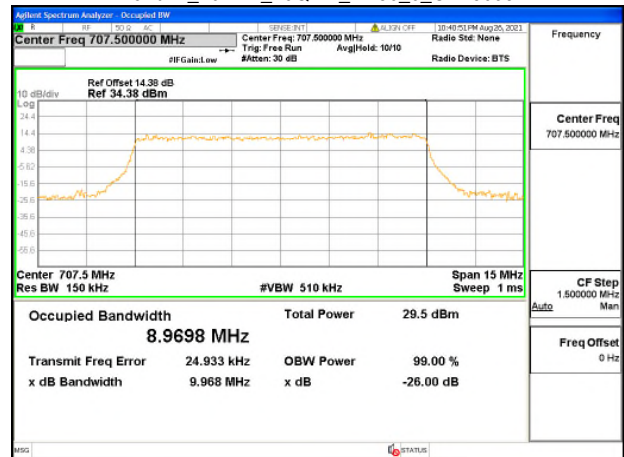
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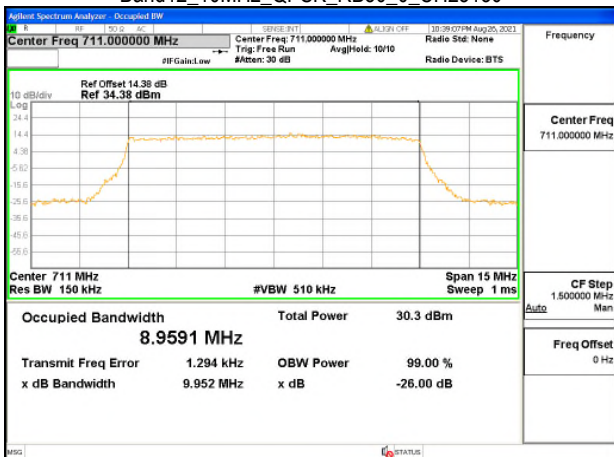
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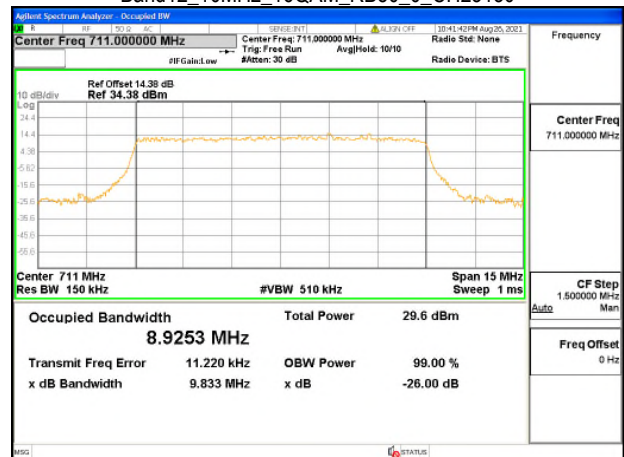
Band12_10MHz_16QAM_RB50_0_CH23095



Band12_10MHz_QPSK_RB50_0_CH23130



Band12_10MHz_16QAM_RB50_0_CH23130



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

FCC §24.238(a), §27.53(h)

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

FCC §27.53(g)

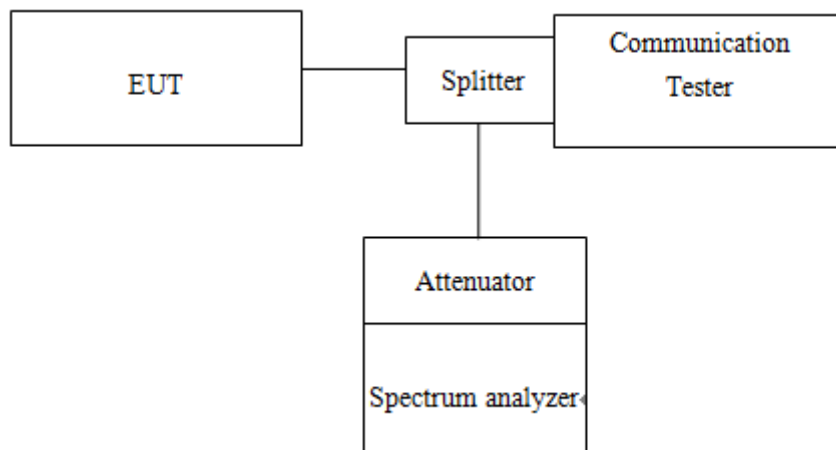
Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)(1)

(h) *AWS emission limits*—(1) *General protection levels*. Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

8.2 Test SET-UP



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8.3 Measurement Procedure

8.3.1 Conducted Emission

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

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

8.3.2 Band Edge

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

8.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/12/2021	05/11/2022
Radio Communication Analyer	Anritsu	MT8820C	6200995019	03/28/2021	03/27/2022
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021

8.5 Band Edge Measurement Result:

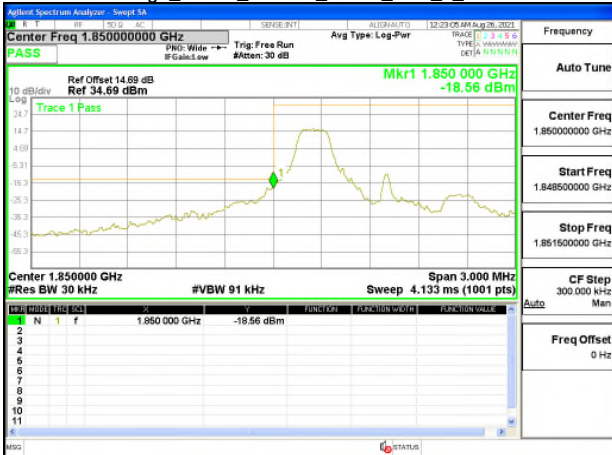
Refer to next pages.

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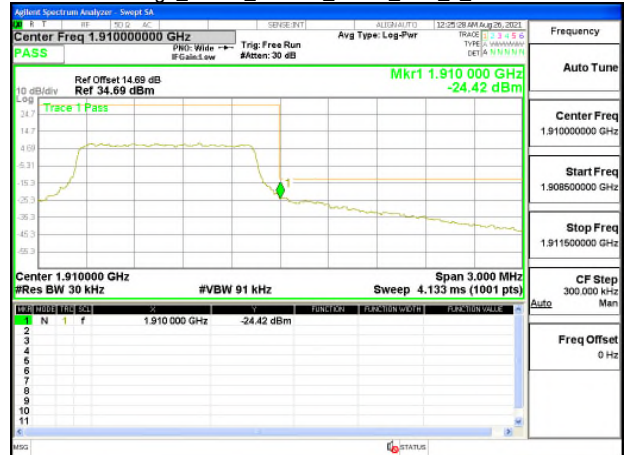
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Band Edge_Band2_1.4MHz_QPSK_RB1_0_CH18607



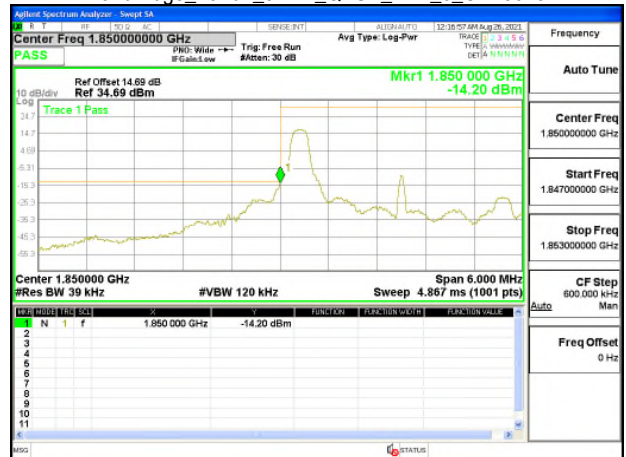
Band Edge_Band2_1.4MHz_QPSK_RB6_0_CH19193



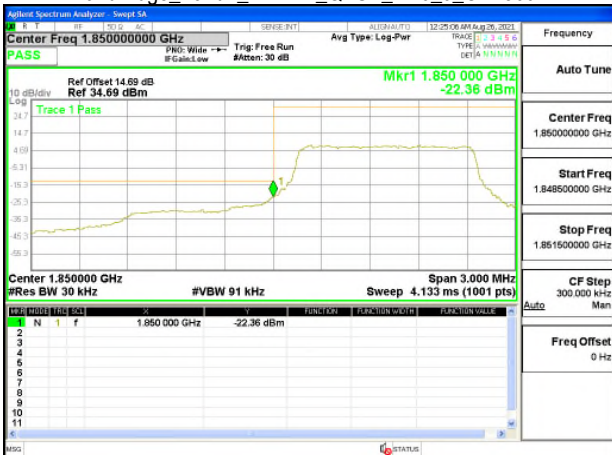
Band Edge_Band2_1.4MHz_QPSK_RB1_5_CH19193



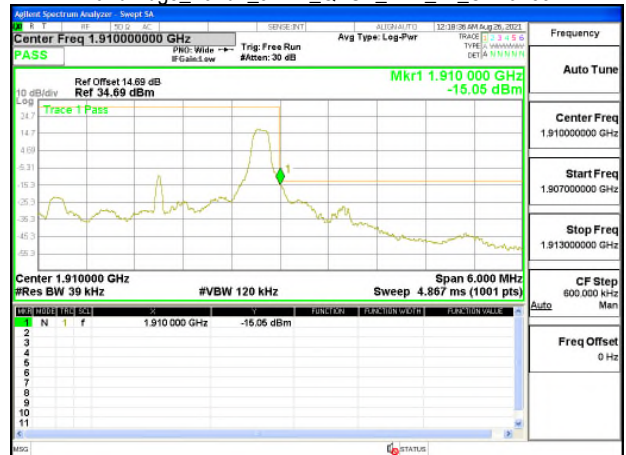
Band Edge_Band2_3MHz_QPSK_RB1_0_CH18615



Band Edge_Band2_1.4MHz_QPSK_RB6_0_CH18607



Band Edge_Band2_3MHz_QPSK_RB1_14_CH19185

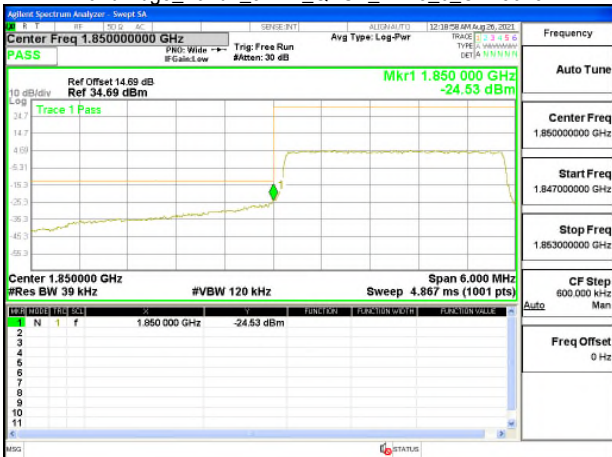


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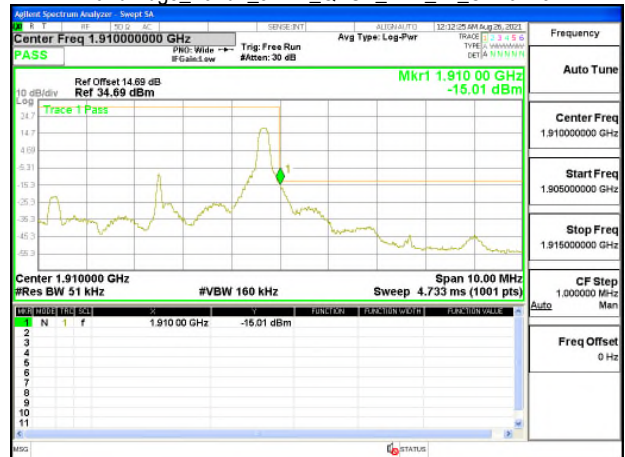
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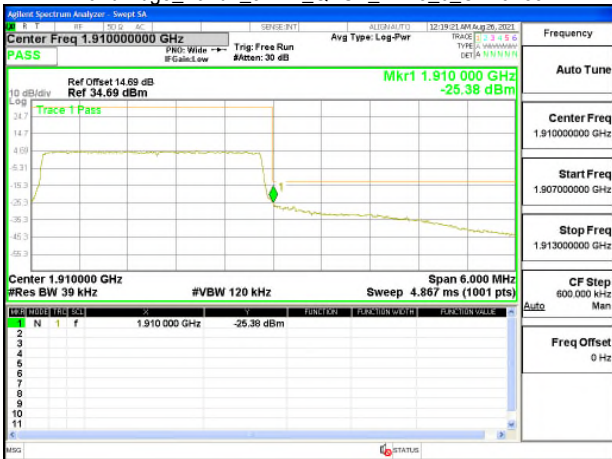
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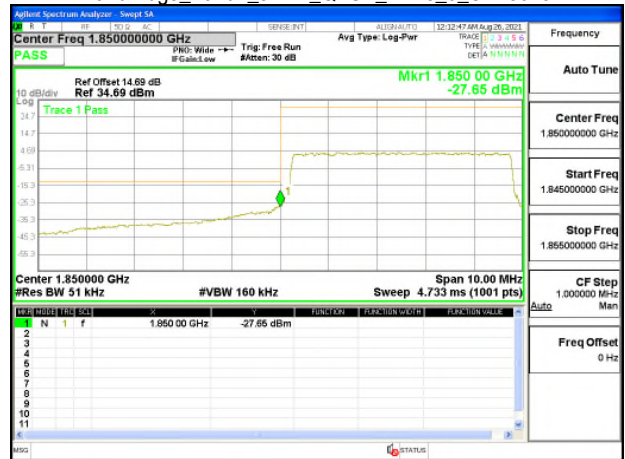
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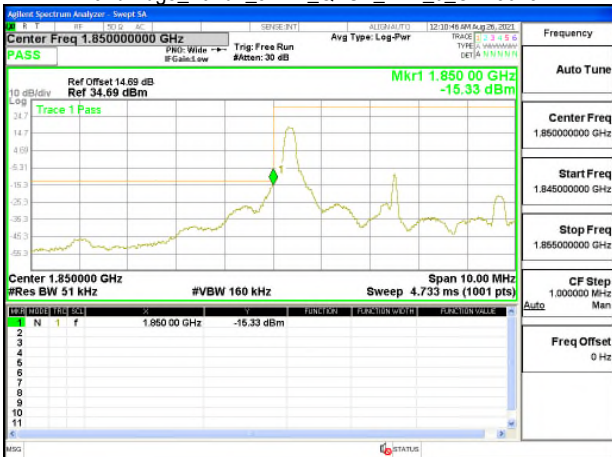
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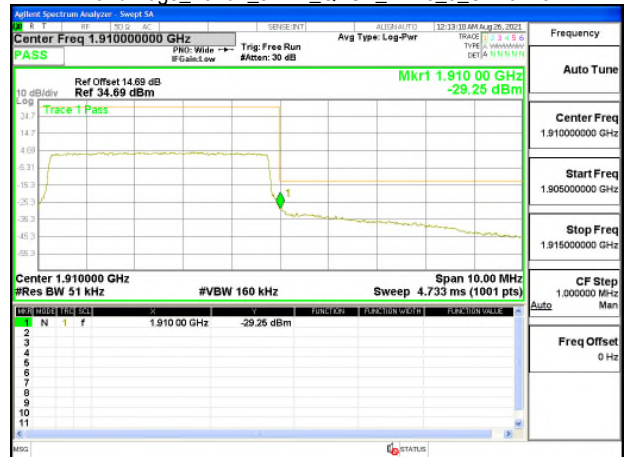
Band Edge_Band2_5MHz_QPSK_RB25_0_CH18625



Band Edge_Band2_5MHz_QPSK_RB1_0_CH18625



Band Edge_Band2_5MHz_QPSK_RB25_0_CH19175

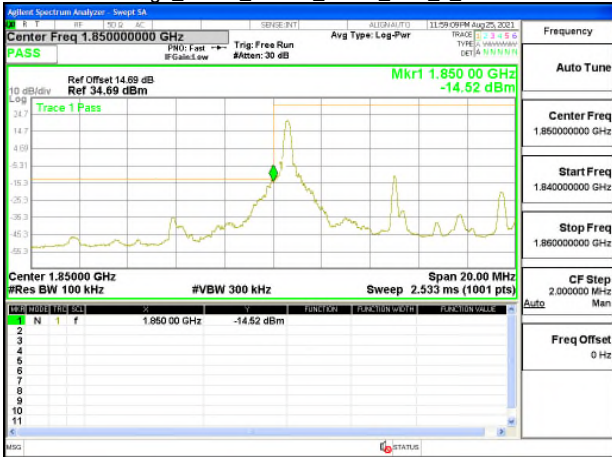


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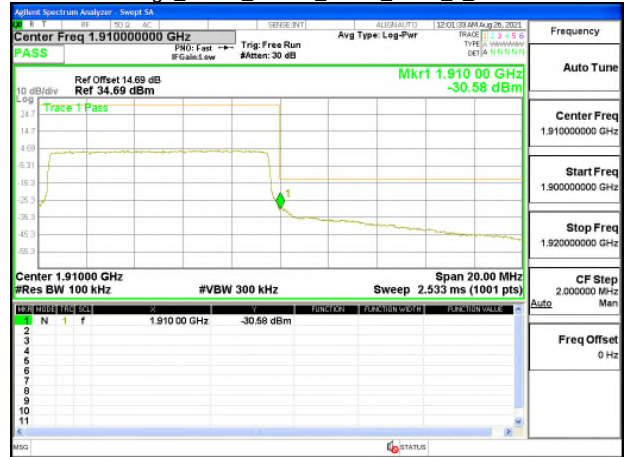
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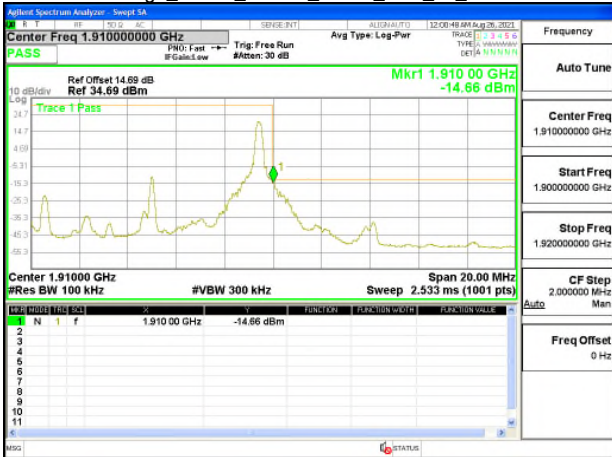
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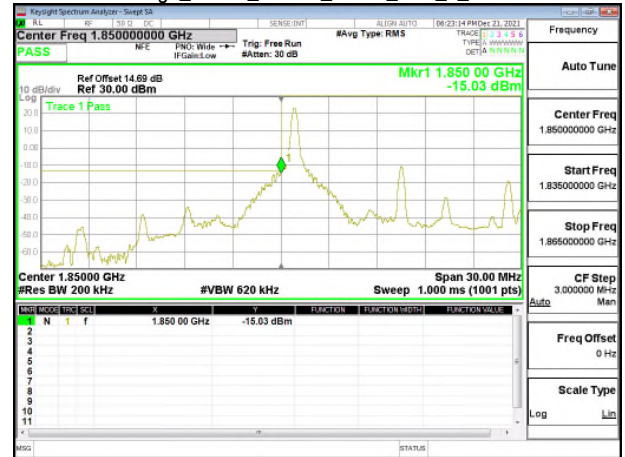
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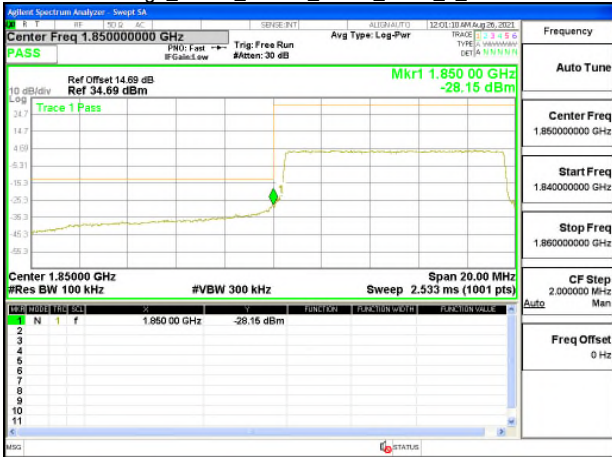
Band Edge_Band2_10MHz_QPSK_RB1_49_CH19150



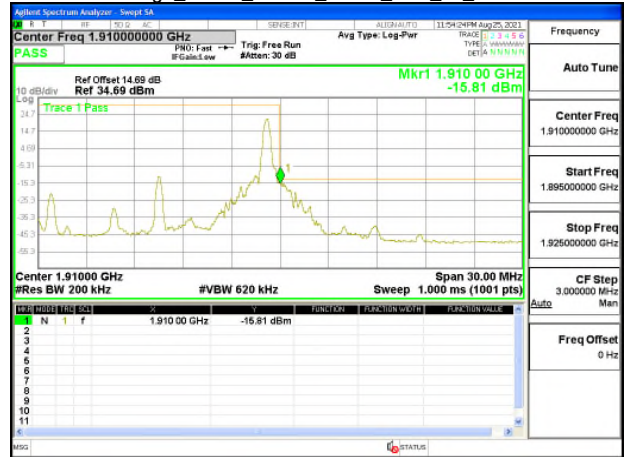
Band Edge_Band2_15MHz_QPSK_RB1_0_CH18675



Band Edge_Band2_10MHz_QPSK_RB50_0_CH18650



Band Edge_Band2_15MHz_QPSK_RB1_74_CH19125

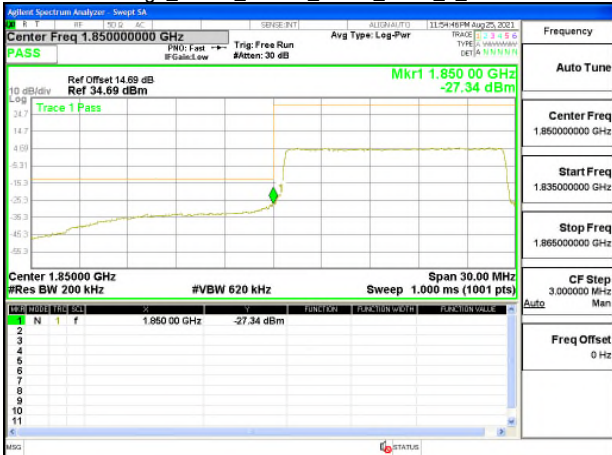


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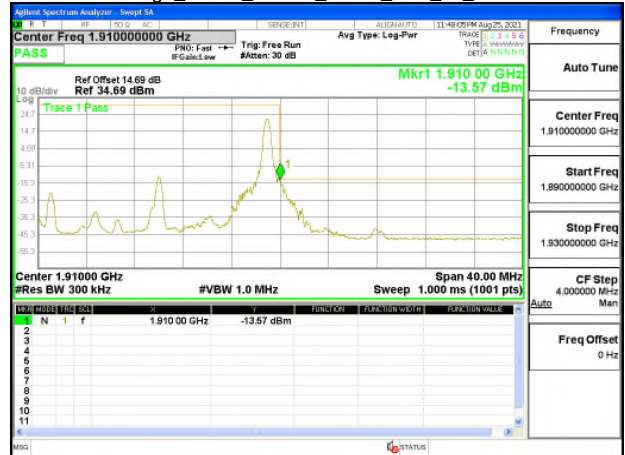
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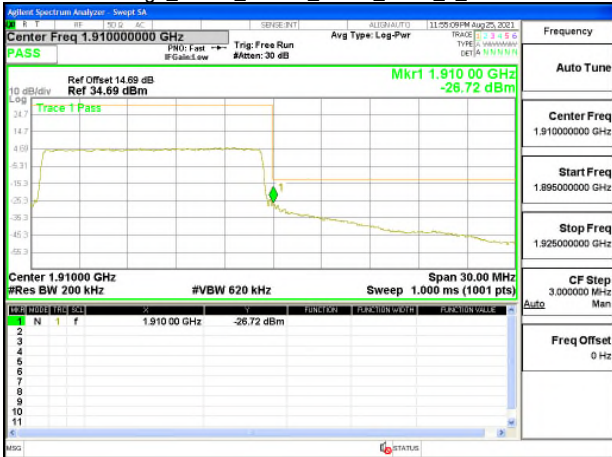
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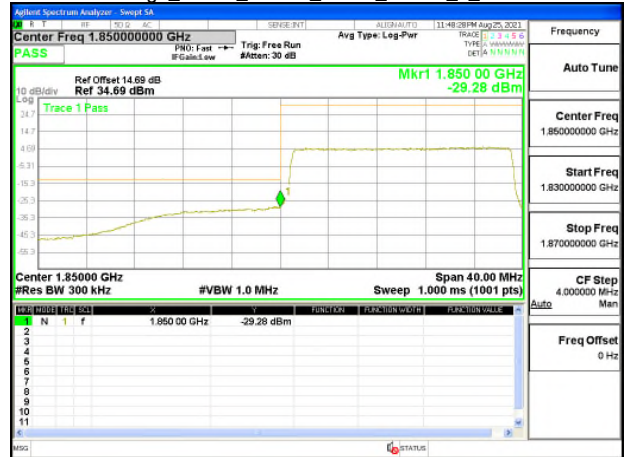
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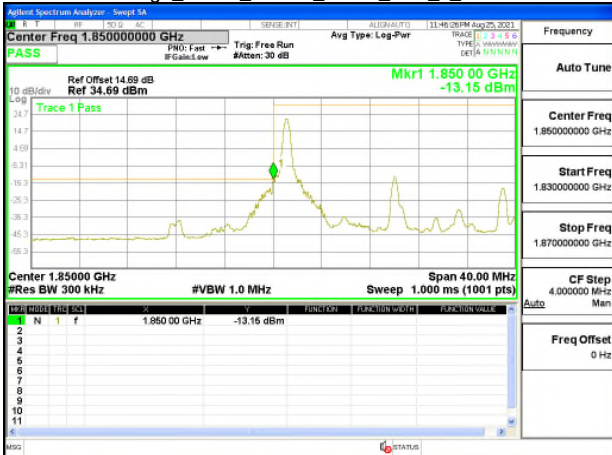
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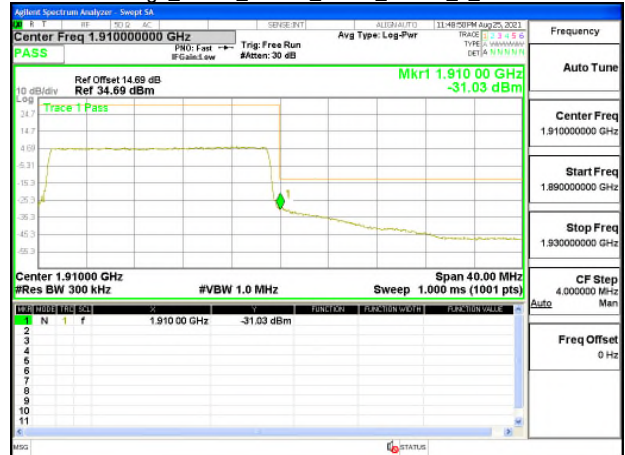
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Band Edge_Band2_20MHz_QPSK_RB1_0_CH18700



Band Edge_Band2_20MHz_QPSK_RB100_0_CH19100

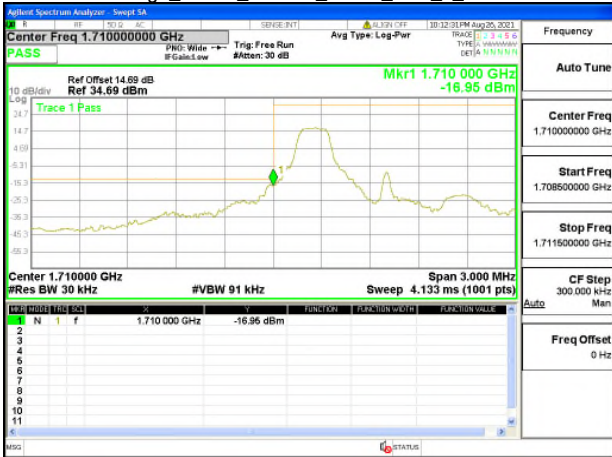


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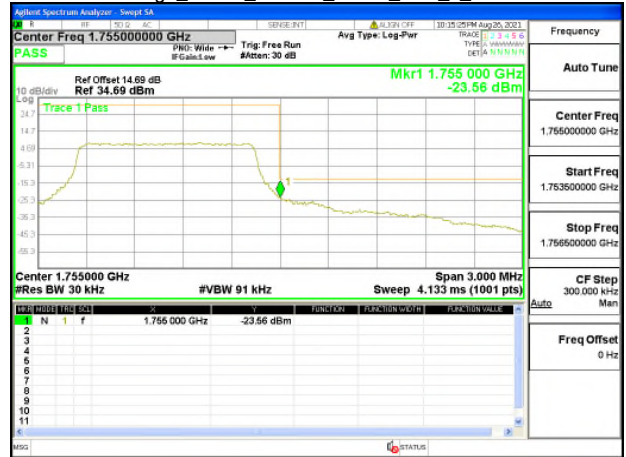
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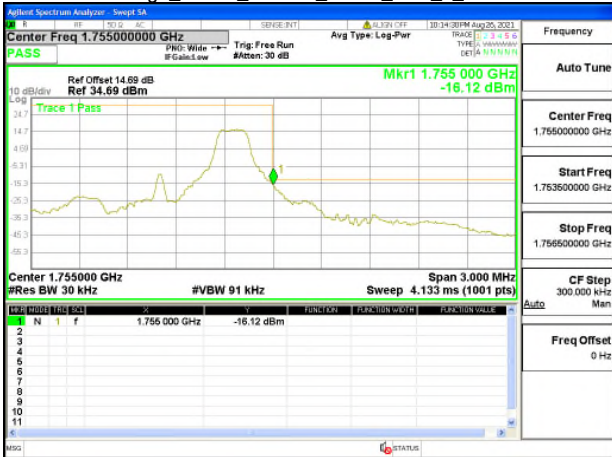
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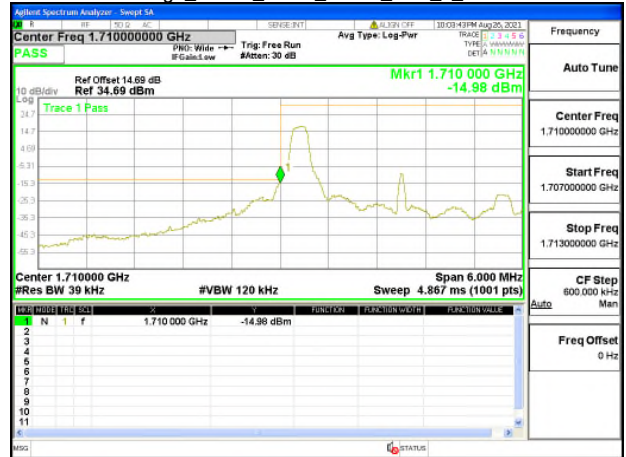
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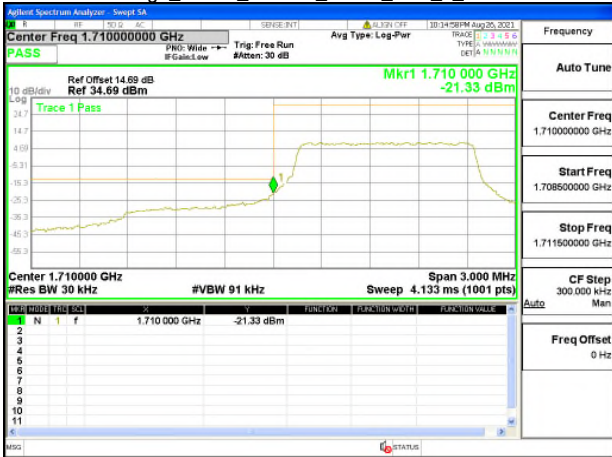
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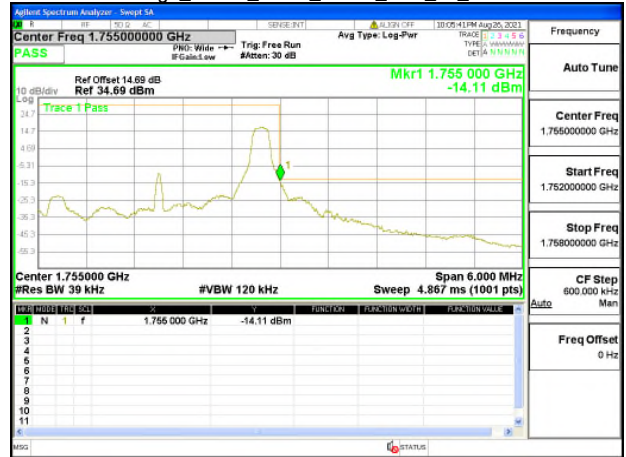
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Band Edge_Band4_3MHz_QPSK_RB1_14_CH20385

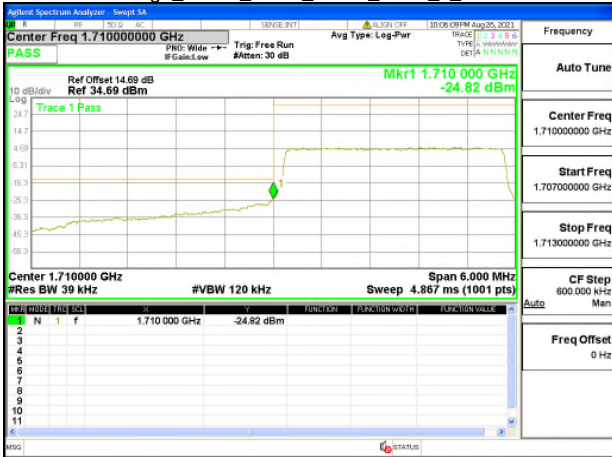


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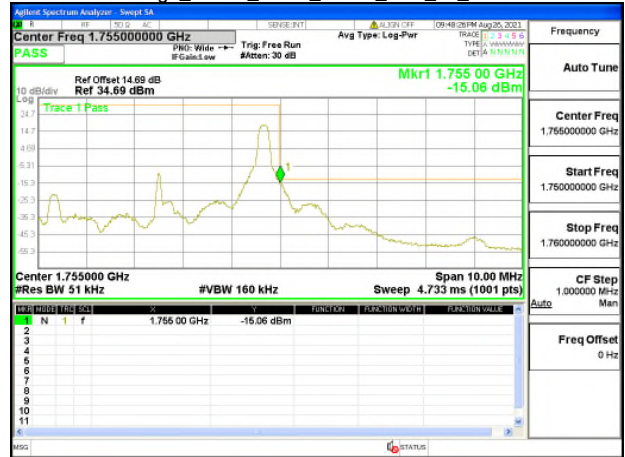
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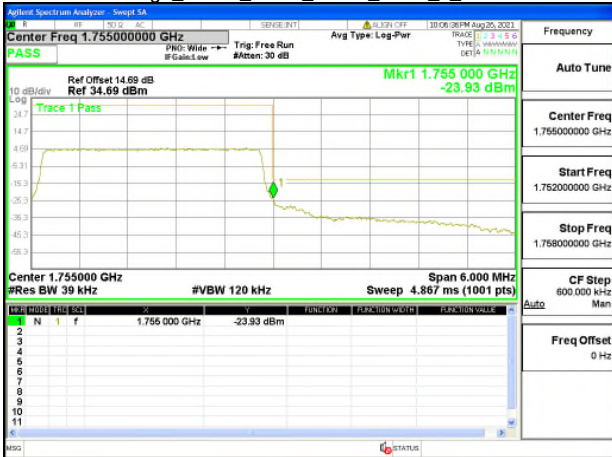
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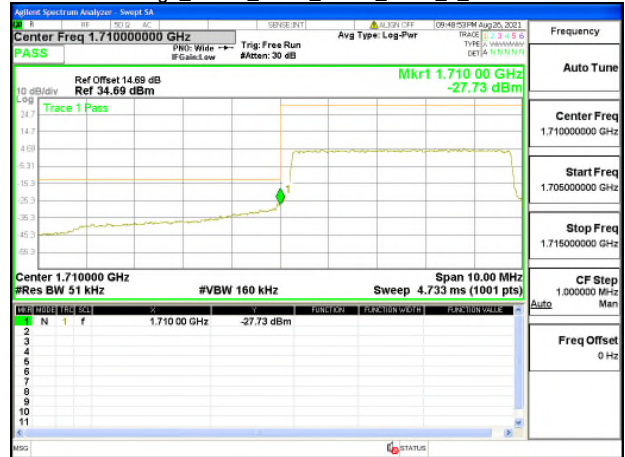
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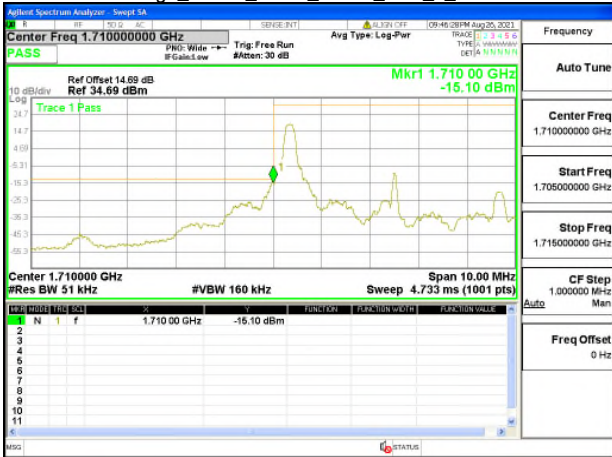
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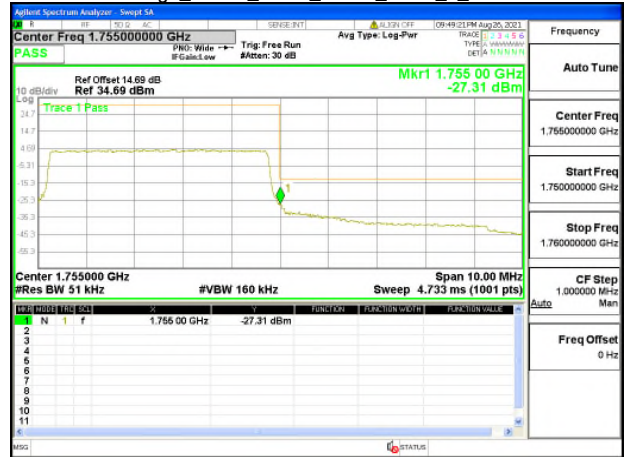
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Band Edge_Band4_5MHz_QPSK_RB1_0_CH19975



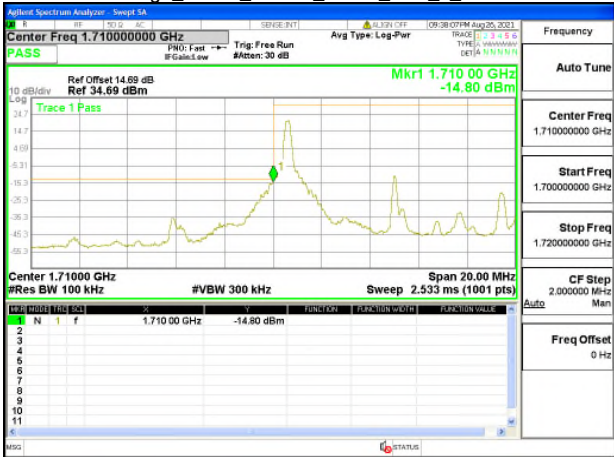
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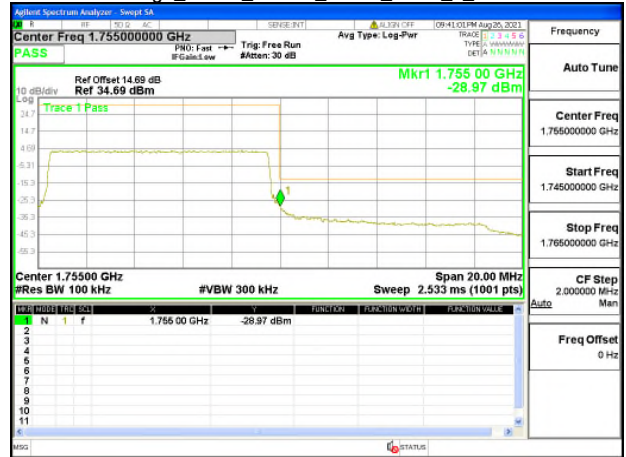
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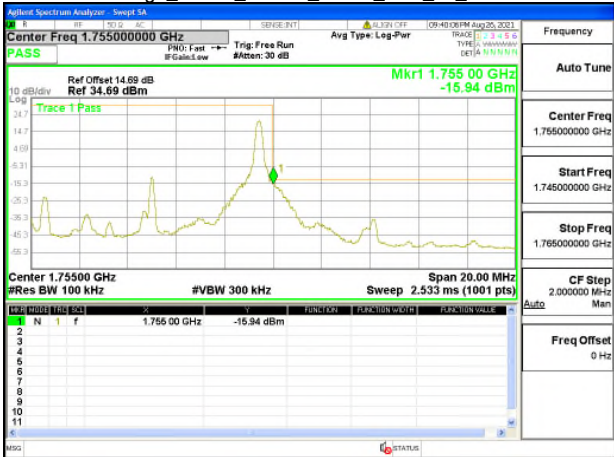
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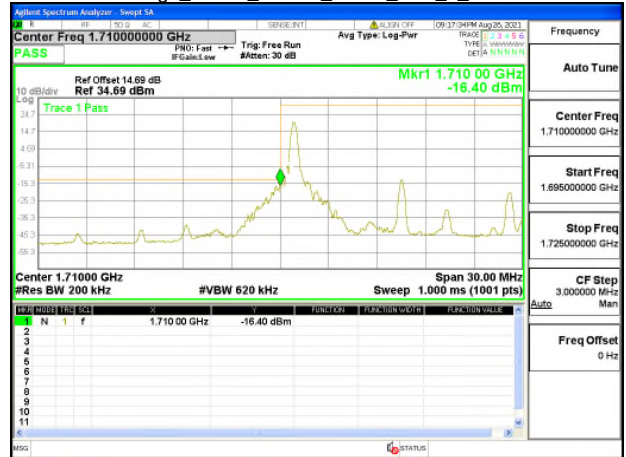
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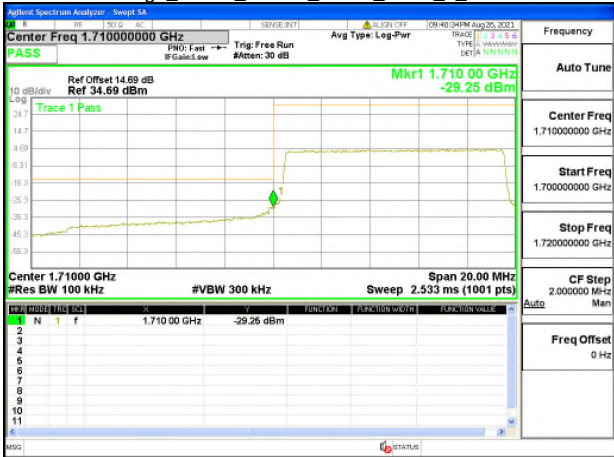
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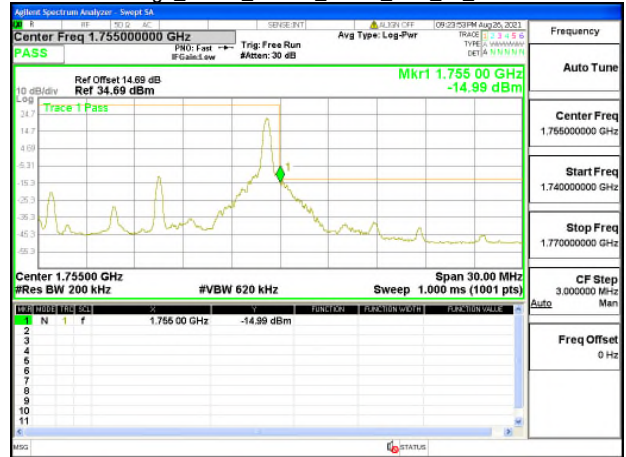
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Band Edge_Band4_10MHz_QPSK_RB50_0_CH20000



Band Edge_Band4_15MHz_QPSK_RB1_74_CH20325



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