

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Sharp Corporation, Mobile Communication B.U.
2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi,
Hiroshima, 739-0192, Japan

Manufacturer: Sharp Corporation
1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

Product Name: Smart phone

Report Number: ER/2019/C0074

FCC ID: APYHRO00281

FCC Rule Part: 2, 22H & 24E & 27 C

Issue Date: Feb. 12, 2020

Date of Test: Dec. 09, 2019 ~ Jan. 15, 2020

Date of EUT Received: Dec. 09, 2019

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By: _____

Vito Pei
Vito Pei/ Sr. Engineer



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

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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2019/C0074	Rev.00	Original.	Feb. 12, 2020	Revised By: Karen Huang

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

Product Name:	Smart phone
Hardware Version:	DVT
Software Version:	N/A
Power Supply:	3.85V from Rechargeable Li-ion Battery
Antenna Designation:	Inverted-F Antenna, Gain: -10.3dBi (GSM/GPRS 850, WCDMA B5, LTE B5), -3.7dBi (GSM/GPRS 1900, WCDMA B2, LTE B2), -5.9dBi (WCDMA B4, LTE B4), -3.4dBi (LTE B7) -11.4dBi (LTE B12, LTE B17), -7.6dBi (LTE B13) -2.7dBi (LTE B38, LTE B41)
IMEI:	004401117111399 / 004401117111274 / 004401117111266 004401117111753 / 004401117111803 / 004401117111670

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1.2. GSM / WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)			
GSM/GPRS 850	824.2	-	848.8
GSM/GPRS 1900	1850.2	-	1909.8

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

LTE Band	BW (MHz)	Operation Frequency (MHz)	
2	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
4	1.4	1710.7	- 1754.3
	3	1711.5	- 1753.5
	5	1712.5	- 1752.5
	10	1715.0	- 1780.0
	15	1717.5	- 1747.5
	20	1720.0	- 1745.0
5	1.4	824.7	- 848.3
	3	825.5	- 847.5
	5	826.5	- 846.5
	10	829.0	- 844.0
7	5	2502.5	- 2567.5
	10	2505.0	- 2565.0
	15	2507.5	- 2562.5
	20	2510.0	- 2560.0

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12	1.4	699.7	-	715.3
	3	700.5	-	714.5
	5	701.5	-	713.5
	10	704.0	-	711.0
13	5	779.5	-	784.5
	10	782		
17	5	706.5	-	713.5
	10	709.0	-	711.0
38	5	2572.5	-	2617.5
	10	2575.0	-	2615.0
	15	2577.5	-	2612.5
	20	2580.0	-	2610.0
41	5	2498.5	-	2687.5
	10	2501.0	-	2685.0
	15	2503.5	-	2682.5
	20	2506.0	-	2680.0

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

	ERP / EIRP (dBm)		W	Type of Emission
GPRS 850	22.28	ERP	0.169	249KGXW
GPRS 1900	25.74	EIRP	0.375	249KGXW

	ERP / EIRP (dBm)		W	Type of Emission
WCDMA Band II	18.89	EIRP	0.077	4M16F9W
HSDPA Band II	17.91	EIRP	0.062	4M15F9W
HSUPA Band II	17.87	EIRP	0.061	4M15F9W
WCDMA Band IV	16.75	EIRP	0.047	4M14F9W
HSDPA Band IV	15.79	EIRP	0.038	4M16F9W
HSUPA Band IV	15.74	EIRP	0.037	4M15F9W
WCDMA Band V	14.08	ERP	0.026	4M15F9W
HSDPA Band V	12.87	ERP	0.019	4M15F9W
HSUPA Band V	12.79	ERP	0.019	4M15F9W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	18.76	EIRP	0.075	1M10G7D
		16QAM	17.43	EIRP	0.055	1M10D7W
		64QAM	16.67	EIRP	0.046	1M10D7W
2	3	QPSK	18.75	EIRP	0.075	2M70G7D
		16QAM	18.13	EIRP	0.065	2M71D7W
		64QAM	17.31	EIRP	0.054	2M71D7W
2	5	QPSK	18.83	EIRP	0.076	4M52G7D
		16QAM	18.15	EIRP	0.065	4M51D7W
		64QAM	17.20	EIRP	0.052	4M50D7W
2	10	QPSK	18.86	EIRP	0.077	9M01G7D
		16QAM	18.24	EIRP	0.067	8M98D7W
		64QAM	17.24	EIRP	0.053	8M97D7W
2	15	QPSK	18.85	EIRP	0.077	13M5G7D
		16QAM	18.20	EIRP	0.066	13M5D7W
		64QAM	17.25	EIRP	0.053	13M5D7W
2	20	QPSK	18.87	EIRP	0.077	18M0G7D
		16QAM	18.24	EIRP	0.067	18M0D7W
		64QAM	17.33	EIRP	0.054	18M0D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	16.65	EIRP	0.046	1M10G7D
		16QAM	15.77	EIRP	0.038	1M10D7W
		64QAM	14.93	EIRP	0.031	1M10D7W
4	3	QPSK	16.56	EIRP	0.045	2M70G7D
		16QAM	15.96	EIRP	0.039	2M71D7W
		64QAM	15.21	EIRP	0.033	2M71D7W
4	5	QPSK	16.61	EIRP	0.046	4M52G7D
		16QAM	15.99	EIRP	0.040	4M51D7W
		64QAM	15.19	EIRP	0.033	4M51D7W
4	10	QPSK	16.66	EIRP	0.046	9M00G7D
		16QAM	16.02	EIRP	0.040	8M98D7W
		64QAM	15.15	EIRP	0.033	8M97D7W
4	15	QPSK	16.66	EIRP	0.046	13M5G7D
		16QAM	16.06	EIRP	0.040	13M5D7W
		64QAM	15.11	EIRP	0.032	13M4D7W
4	20	QPSK	16.68	EIRP	0.047	18M0G7D
		16QAM	16.11	EIRP	0.041	17M9D7W
		64QAM	15.28	EIRP	0.034	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	10.63	ERP	0.012	1M10G7D
		16QAM	9.94	ERP	0.010	1M10D7W
		64QAM	8.65	ERP	0.007	1M10D7W
5	3	QPSK	10.51	ERP	0.011	2M70G7D
		16QAM	10.15	ERP	0.010	2M70D7W
		64QAM	9.41	ERP	0.009	2M71D7W
5	5	QPSK	10.69	ERP	0.012	4M52G7D
		16QAM	10.27	ERP	0.011	4M51D7W
		64QAM	9.50	ERP	0.009	4M52D7W
5	10	QPSK	10.61	ERP	0.012	9M01G7D
		16QAM	10.22	ERP	0.011	8M99D7W
		64QAM	9.48	ERP	0.009	8M99D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
7	5	QPSK	19.54	EIRP	0.090	4M50G7D
		16QAM	19.18	EIRP	0.083	4M51D7W
		64QAM	18.52	EIRP	0.071	4M50D7W
7	10	QPSK	19.59	EIRP	0.091	9M01G7D
		16QAM	19.06	EIRP	0.081	8M96D7W
		64QAM	18.45	EIRP	0.070	8M98D7W
7	15	QPSK	19.57	EIRP	0.091	13M5G7D
		16QAM	19.12	EIRP	0.082	13M5D7W
		64QAM	18.49	EIRP	0.071	13M5D7W
7	20	QPSK	19.71	EIRP	0.094	17M9G7D
		16QAM	19.21	EIRP	0.083	18M0D7W
		64QAM	18.56	EIRP	0.072	17M9D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
12	1.4	QPSK	9.17	ERP	0.008	1M11G7D
		16QAM	8.11	ERP	0.006	1M10D7W
		64QAM	7.49	ERP	0.006	1M10D7W
12	3	QPSK	9.46	ERP	0.009	2M70G7D
		16QAM	8.99	ERP	0.008	2M70D7W
		64QAM	8.28	ERP	0.007	2M70D7W
12	5	QPSK	9.51	ERP	0.009	4M49G7D
		16QAM	9.08	ERP	0.008	4M50D7W
		64QAM	8.20	ERP	0.007	4M50D7W
12	10	QPSK	9.57	ERP	0.009	8M95G7D
		16QAM	9.13	ERP	0.008	8M96D7W
		64QAM	8.28	ERP	0.007	8M97D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
38	5	QPSK	20.23	EIRP	0.105	4M51G7D
		16QAM	19.68	EIRP	0.093	4M50D7W
		64QAM	19.01	EIRP	0.080	4M51D7W
38	10	QPSK	20.23	EIRP	0.105	8M98G7D
		16QAM	19.61	EIRP	0.091	8M97D7W
		64QAM	19.00	EIRP	0.079	8M99D7W
38	15	QPSK	20.20	EIRP	0.105	13M5G7D
		16QAM	19.69	EIRP	0.093	13M5D7W
		64QAM	18.99	EIRP	0.079	13M5D7W
38	20	QPSK	20.27	EIRP	0.106	17M9G7D
		16QAM	19.69	EIRP	0.093	17M9D7W
		64QAM	19.07	EIRP	0.081	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
13	5	QPSK	13.59	ERP	0.023	4M51G7D
		16QAM	13.05	ERP	0.020	4M50D7W
		64QAM	12.13	ERP	0.016	4M52D7W
13	10	QPSK	13.48	ERP	0.022	8M95G7D
		16QAM	12.86	ERP	0.019	8M89D7W
		64QAM	11.93	ERP	0.016	8M83D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	21.69	EIRP	0.148	4M50G7D
		16QAM	20.68	EIRP	0.117	4M51D7W
		64QAM	19.74	EIRP	0.094	4M50D7W
41	10	QPSK	21.66	EIRP	0.147	8M99G7D
		16QAM	20.66	EIRP	0.116	8M98D7W
		64QAM	19.68	EIRP	0.093	8M98D7W
41	15	QPSK	21.59	EIRP	0.144	13M5G7D
		16QAM	20.71	EIRP	0.118	13M5D7W
		64QAM	19.70	EIRP	0.093	13M5D7W
41	20	QPSK	21.73	EIRP	0.149	17M9G7D
		16QAM	20.75	EIRP	0.119	17M9D7W
		64QAM	19.75	EIRP	0.094	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
17	5	QPSK	9.37	ERP	0.009	4M50G7D
		16QAM	8.94	ERP	0.008	4M51D7W
		64QAM	8.13	ERP	0.007	4M51D7W
17	10	QPSK	9.53	ERP	0.009	9M00G7D
		16QAM	9.02	ERP	0.008	8M96D7W
		64QAM	8.15	ERP	0.007	8M98D7W

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1.4. Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

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

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

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

1.5. Test Facility

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

FCC Designation number: TW0001

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

1.8. 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

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

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

2.4. 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)	0.5	13.9	14.4
High Band (1 GHz~2GHz)	0.7	14	14.7
High Band (Above 2 GHz)	0.8	14.2	15

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2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.85	658
GPRS 1900		625
HSDPA B2		634
HSDPA B4		657
HSDPA B5		695
LTE Band 2		695
LTE Band 4		694
LTE Band 5		696
LTE Band 7		697
LTE Band 12		686
LTE Band 13		695
LTE Band 17		683
LTE Band 38		699
LTE Band 41		693

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2.6. Configuration of Tested System

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

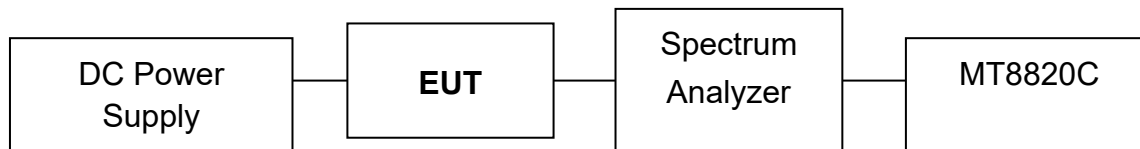


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

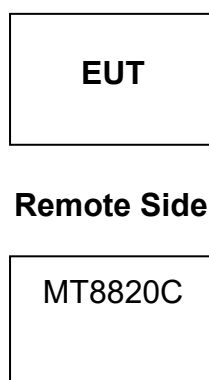


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8820C	6200995019	N/A	N/A
3.	DC Power Supply	Agilent	E3640A	MY52410006	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(d)(4) §22.913(a)(5) §27, 50(h)(2) §27.50(c)(10) §27.50(b)(10)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §24.238(a) §27.53(h) §22.917(a)(b) §27.53(m) §27.53(g) §27.53(c) §27.53(g) §27.53(m)(4)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053, §2.1057(a)(1) §24.238(a) §27.53(h) §22.917(a) §27.53(m)(2) §27.53(g) §27.53(c)(f)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50((B)	Peak to Average Ratio	Compliant
§2.1055 (1) §24.235 §27.54 §22.355	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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

BAND	RADIATED EMISSION
GSM/GPRS 850	H-plane
GSM/GPRS 1900	H-plane
WCDMA/HSPA Band II	H-plane
WCDMA/HSPA Band IV	H-plane
WCDMA/HSPA Band V	H-plane
LTE Band 2	H-plane
LTE Band 4	H-plane
LTE Band 5	H-plane
LTE Band 7	H-plane
LTE Band 12	H-plane
LTE Band 13	H-plane
LTE Band 17	H-plane
LTE Band 38	H-plane
LTE Band 41	H-plane

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GSM/GPRS MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	128 to 251	128, 190, 251	GSM/GPRS 850
EIRP	512 to 810	512, 661, 810	GSM/GPRS 1900
FREQUENCY STABILITY	128 to 251 512 to 810	190 661	GPRS 850 GPRS 1900
OCCUPIED BANDWIDTH	128 to 251 512 to 810	190 661	GSM/GPRS 850 GSM/GPRS 1900
PEAK TO AVERAGE RATIO	512 to 810	512, 661, 810	GSM/GPRS 1900
BAND EDGE	128 to 251 512 to 810	128, 251 512, 810	GSM/GPRS 850 GSM/GPRS 1900
CONDCUDED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM/GPRS 850 GSM/GPRS 1900
RADIATED EMISSION	128 to 251 512 to 810	128, 190, 251 512, 661, 810	GSM 850 GSM 1900

WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	1312, 1413, 1513 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513	4132, 4183, 4233 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9538	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDCUDED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9538	WCDMA Band II WCDMA Band IV WCDMA Band V

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LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVER-AGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	64QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20000 to 20350	20175	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVER-AGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	64QAM	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDCUDED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	20450 to 20600	20525	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	64QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	64QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	64QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	64QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 99 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	64QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDUCTED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	64QAM	Full RB
	23230	23230	10MHz	64QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCU-DETECTED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 24 RB Offest

LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	64QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	64QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCU-DETECTED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23780 to 23800	23780, 23790, 23800	10MHz	QPSK	1 RB, 49 RB Offest

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offset
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	37800 to 38200	37800, 38000, 38200	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	Full RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	Full RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	Full RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	64QAM	Full RB
	37800 to 38200	37800, 38000, 38200	10MHz	64QAM	Full RB
	37825 to 38175	37825, 38000, 38175	15MHz	64QAM	Full RB
	37850 to 38150	37850, 38000, 38150	20MHz	64QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offset Full RB
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offset Full RB
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offset Full RB
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offset Full RB
CONDUCTED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offset
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offset
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offset
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offset
RADIATED EMISSION	37850 to 38150	37850, 38000, 38150	20MHz	QPSK	1 RB, 99 RB Offset
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	37800 to 38200	37800, 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	37825 to 38175	37825, 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	37850 to 38150	37850, 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	64QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	64QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	64QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	64QAM	Full RB
CONDUCTED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offset
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset
RADIATED EMISSION	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB, 0 RB Offset

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5. MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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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.

ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (b)

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

FCC 27.50(c)

(10) Portable stations (hand-held devices) are limited to 3 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.

FCC 27, 50(h)

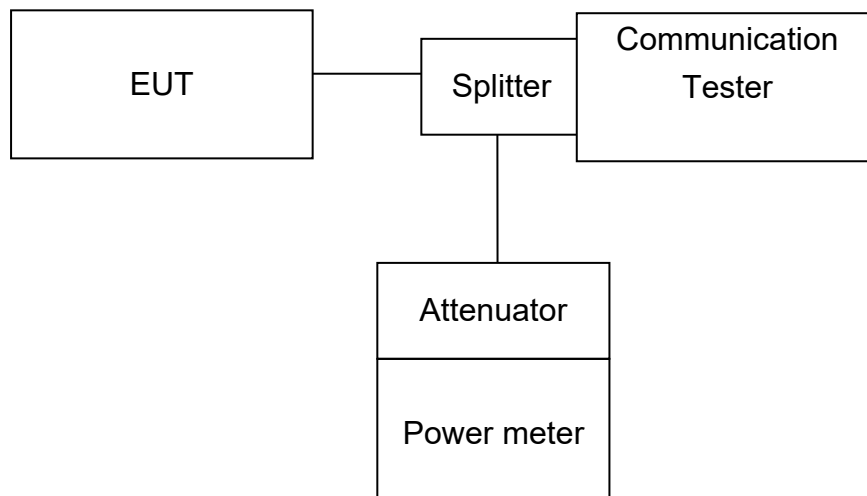
(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

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6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

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

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

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

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

$$ERP/EIRP = P_{Meas} + GT - LC$$

Where:

ERP/EIRP	= effective or equivalent 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;
GT	= gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)
LC	= signal attenuation in the connecting cable between the transmitter and antenna, in dB.2

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

6.5. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/10/2019	12/09/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021

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6.6. Measurement Result

RF Conducted Output Power

GSM/GPRS MODE:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
GSM 850	824.2	128	32.58	-10.30	20.13	22.28	38.50	-16.22
	836.6	190	32.37	-10.30	19.92	22.07	38.50	-16.43
	848.8	251	32.48	-10.30	20.03	22.18	38.50	-16.32
GSM 1900	1850.2	512	29.19	-3.70	23.34	25.49	33.00	-7.51
	1880.0	661	29.36	-3.70	23.51	25.66	33.00	-7.34
	1909.8	810	29.44	-3.70	23.59	25.74	33.00	-7.26
GPRS 850	824.2	128	32.58	-10.30	20.13	22.28	38.50	-16.22
	836.6	190	32.37	-10.30	19.92	22.07	38.50	-16.43
	848.8	251	32.48	-10.30	20.03	22.18	38.50	-16.32
GPRS 1900	1850.2	512	29.19	-3.70	23.34	25.49	33.00	-7.51
	1880.0	661	29.36	-3.70	23.51	25.66	33.00	-7.34
	1909.8	810	29.44	-3.70	23.59	25.74	33.00	-7.26

EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)	Average Burst Power (1DN 3UP) Class 12 (dBm)	Average Burst Power (1DN 4UP) Class 12 (dBm)
GPRS 850	824.2	128	32.58	30.66	28.75	27.79
	836.6	190	32.37	30.54	28.82	27.88
	848.8	251	32.48	30.39	28.81	27.80
GPRS 1900	1850.2	512	29.19	27.01	25.39	24.37
	1880.0	661	29.36	27.21	25.58	24.57
	1909.8	810	29.44	27.30	25.66	24.65

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WCDMA/HSPA MODE:

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

Results:

WCDMA/HSUPA/HSDPA

Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	22.58	-3.70	16.73	18.88	33.00	-14.12
	1880.0	9400	22.59	-3.70	16.74	18.89	33.00	-14.11
	1907.6	9538	22.36	-3.70	16.51	18.66	33.00	-14.34
HSDPA	1852.4	9262	21.60	-3.70	15.75	17.90	33.00	-15.10
	1880.0	9400	21.61	-3.70	15.76	17.91	33.00	-15.09
	1907.6	9538	21.36	-3.70	15.51	17.66	33.00	-15.34
HSUPA	1852.4	9262	21.54	-3.70	15.69	17.84	33.00	-15.16
	1880.0	9400	21.57	-3.70	15.72	17.87	33.00	-15.13
	1907.6	9538	21.34	-3.70	15.49	17.64	33.00	-15.36

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WCDMA/HSUPA/HSDPA

Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	22.62	-5.90	14.57	16.72	30.00	-13.28
	1732.6	1413	22.65	-5.90	14.60	16.75	30.00	-13.25
	1752.6	1513	22.52	-5.90	14.47	16.62	30.00	-13.38
HSDPA	1712.4	1312	21.68	-5.90	13.63	15.78	30.00	-14.22
	1732.6	1413	21.69	-5.90	13.64	15.79	30.00	-14.21
	1752.6	1513	21.50	-5.90	13.45	15.60	30.00	-14.40
HSUPA	1712.4	1312	21.62	-5.90	13.57	15.72	30.00	-14.28
	1732.6	1413	21.64	-5.90	13.59	15.74	30.00	-14.26
	1752.6	1513	21.48	-5.90	13.43	15.58	30.00	-14.42

WCDMA/HSUPA/HSDPA

Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	24.29	-10.30	11.84	13.99	38.50	-24.51
	836.6	4183	24.38	-10.30	11.93	14.08	38.50	-24.42
	846.6	4233	24.33	-10.30	11.88	14.03	38.50	-24.47
HSDPA	826.4	4132	23.05	-10.30	10.60	12.75	38.50	-25.75
	836.6	4183	23.17	-10.30	10.72	12.87	38.50	-25.63
	846.6	4233	23.16	-10.30	10.71	12.86	38.50	-25.64
HSUPA	826.4	4132	23.06	-10.30	10.61	12.76	38.50	-25.74
	836.6	4183	23.09	-10.30	10.64	12.79	38.50	-25.71
	846.6	4233	23.07	-10.30	10.62	12.77	38.50	-25.73

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HSPA (HSDPA & HSUPA) Release 6 MODE:

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

HSDPA SUB-TEST Setting

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

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

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

HSPA SUB-TEST Setting

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

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

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

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Results:

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	21.60	21.61	21.36
	2	21.06	21.13	20.88
	3	21.08	21.10	20.88
	4	21.08	21.09	20.87

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	21.68	21.69	21.50
	2	21.16	21.16	21.08
	3	21.12	21.16	21.03
	4	21.11	21.21	21.03

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	23.05	23.17	23.16
	2	22.58	22.61	22.59
	3	22.53	22.53	22.55
	4	22.53	22.55	22.50

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	21.54	21.57	21.34
	2	19.50	19.53	19.34
	3	20.53	20.54	20.35
	4	19.58	19.52	19.31
	5	21.54	21.48	21.42

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	21.62	21.64	21.48
	2	19.56	19.63	19.49
	3	20.60	20.63	20.49
	4	19.61	19.61	19.46
	5	21.63	21.58	21.51

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	23.06	23.09	23.07
	2	21.16	21.05	21.09
	3	22.10	22.19	22.10
	4	21.04	21.08	21.12
	5	23.12	23.16	23.16

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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Minimum Communications Power Measurement**PCS 1900 band**

PCL	0	1	2	3	4	5	6	7	8
Output power (dBm)	29.73	27.64	25.62	23.57	21.47	19.54	17.92	15.98	13.78

PCL	9	10	11	12	13	14	15
Output power (dBm)	12.08	10.25	8.12	6.29	4.24	2.35	0.32

Note: The EUT output power was controlled by simulator. Set Communication Tester [MT8820C](#) PCL as above, and get the mobile phone output power reading.

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LTE Result:

Antenna gain (dBi) -3.7

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	22.43	18.73	33	-14.27
				1	5	22.14	18.44	33	-14.56
				3	2	22.02	18.32	33	-14.68
				6	0	21.05	17.35	33	-15.65
	18900	1880	QPSK	1	0	22.00	18.30	33	-14.7
				1	5	21.87	18.17	33	-14.83
				3	2	21.82	18.12	33	-14.88
				6	0	21.07	17.37	33	-15.63
	19193	1909.3	QPSK	1	0	22.19	18.49	33	-14.51
				1	5	22.46	18.76	33	-14.24
				3	2	22.03	18.33	33	-14.67
				6	0	21.12	17.42	33	-15.58
	18607	1850.7	16QAM	1	0	21.12	17.42	33	-15.58
				1	5	21.12	17.42	33	-15.58
				3	2	20.81	17.11	33	-15.89
				6	0	20.00	16.30	33	-16.7
	18900	1880	16QAM	1	0	20.95	17.25	33	-15.75
				1	5	20.88	17.18	33	-15.82
				3	2	20.91	17.21	33	-15.79
				6	0	20.10	16.40	33	-16.6
	19193	1909.3	16QAM	1	0	21.13	17.43	33	-15.57
				1	5	21.06	17.36	33	-15.64
				3	2	20.85	17.15	33	-15.85
				6	0	20.24	16.54	33	-16.46
	18607	1850.7	64QAM	1	0	20.26	16.56	33	-16.44
				1	5	20.37	16.67	33	-16.33
				3	2	20.07	16.37	33	-16.63
				6	0	19.47	15.77	33	-17.23
	18900	1880	64QAM	1	0	19.96	16.26	33	-16.74
				1	5	20.19	16.49	33	-16.51
				3	2	20.08	16.38	33	-16.62
				6	0	19.47	15.77	33	-17.23
	19193	1909.3	64QAM	1	0	20.27	16.57	33	-16.43
				1	5	20.19	16.49	33	-16.51
				3	2	19.97	16.27	33	-16.73
				6	0	19.55	15.85	33	-17.15

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Antenna gain (dBi) -3.7

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	22.41	18.71	33	-14.29
				1	14	22.45	18.75	33	-14.25
				8	4	21.45	17.75	33	-15.25
				15	0	21.37	17.67	33	-15.33
	18900	1880	QPSK	1	0	22.29	18.59	33	-14.41
				1	14	22.23	18.53	33	-14.47
				8	4	21.38	17.68	33	-15.32
				15	0	21.33	17.63	33	-15.37
	19185	1908.5	QPSK	1	0	22.07	18.37	33	-14.63
				1	14	22.11	18.41	33	-14.59
				8	4	21.28	17.58	33	-15.42
				15	0	21.34	17.64	33	-15.36
	18615	1851.5	16QAM	1	0	21.79	18.09	33	-14.91
				1	14	21.83	18.13	33	-14.87
				8	4	20.57	16.87	33	-16.13
				15	0	20.47	16.77	33	-16.23
	18900	1880	16QAM	1	0	21.46	17.76	33	-15.24
				1	14	21.33	17.63	33	-15.37
				8	4	20.42	16.72	33	-16.28
				15	0	20.34	16.64	33	-16.36
	19185	1908.5	16QAM	1	0	21.47	17.77	33	-15.23
				1	14	21.30	17.60	33	-15.4
				8	4	20.32	16.62	33	-16.38
				15	0	20.16	16.46	33	-16.54
	18615	1851.5	64QAM	1	0	20.74	17.04	33	-15.96
				1	14	21.01	17.31	33	-15.69
				8	4	19.65	15.95	33	-17.05
				15	0	19.57	15.87	33	-17.13
	18900	1880	64QAM	1	0	20.44	16.74	33	-16.26
				1	14	20.37	16.67	33	-16.33
				8	4	19.42	15.72	33	-17.28
				15	0	19.50	15.80	33	-17.2
	19185	1908.5	64QAM	1	0	20.41	16.71	33	-16.29
				1	14	20.30	16.60	33	-16.4
				8	4	19.45	15.75	33	-17.25
				15	0	19.37	15.67	33	-17.33

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Antenna gain (dBi) -3.7

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	22.53	18.83	33	-14.17
				1	24	22.41	18.71	33	-14.29
				12	6	21.55	17.85	33	-15.15
				25	0	21.54	17.84	33	-15.16
	18900	1880	QPSK	1	0	22.26	18.56	33	-14.44
				1	24	22.21	18.51	33	-14.49
				12	6	21.55	17.85	33	-15.15
				25	0	21.46	17.76	33	-15.24
	19175	1907.5	QPSK	1	0	22.16	18.46	33	-14.54
				1	24	22.26	18.56	33	-14.44
				12	6	21.38	17.68	33	-15.32
				25	0	21.22	17.52	33	-15.48
	18625	1852.5	16QAM	1	0	21.77	18.07	33	-14.93
				1	24	21.85	18.15	33	-14.85
				12	6	20.55	16.85	33	-16.15
				25	0	20.58	16.88	33	-16.12
	18900	1880	16QAM	1	0	21.42	17.72	33	-15.28
				1	24	21.31	17.61	33	-15.39
				12	6	20.35	16.65	33	-16.35
				25	0	20.40	16.70	33	-16.3
	19175	1907.5	16QAM	1	0	21.51	17.81	33	-15.19
				1	24	21.31	17.61	33	-15.39
				12	6	20.40	16.70	33	-16.3
				25	0	20.31	16.61	33	-16.39
	18625	1852.5	64QAM	1	0	20.80	17.10	33	-15.9
				1	24	20.90	17.20	33	-15.8
				12	6	19.64	15.94	33	-17.06
				25	0	19.50	15.80	33	-17.2
	18900	1880	64QAM	1	0	20.54	16.84	33	-16.16
				1	24	20.46	16.76	33	-16.24
				12	6	19.53	15.83	33	-17.17
				25	0	19.34	15.64	33	-17.36
	19175	1907.5	64QAM	1	0	20.50	16.80	33	-16.2
				1	24	20.32	16.62	33	-16.38
				12	6	19.33	15.63	33	-17.37
				25	0	19.24	15.54	33	-17.46

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Antenna gain (dBi) -3.7

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	22.56	18.86	33	-14.14
				1	49	22.49	18.79	33	-14.21
				25	12	21.46	17.76	33	-15.24
				50	0	21.45	17.75	33	-15.25
	18900	1880	QPSK	1	0	22.29	18.59	33	-14.41
				1	49	22.27	18.57	33	-14.43
				25	12	21.42	17.72	33	-15.28
				50	0	21.44	17.74	33	-15.26
	19150	1905	QPSK	1	0	22.18	18.48	33	-14.52
				1	49	22.24	18.54	33	-14.46
				25	12	21.37	17.67	33	-15.33
				50	0	21.32	17.62	33	-15.38
	18650	1855	16QAM	1	0	21.82	18.12	33	-14.88
				1	49	21.94	18.24	33	-14.76
				25	12	20.62	16.92	33	-16.08
				50	0	20.50	16.80	33	-16.2
	18900	1880	16QAM	1	0	21.44	17.74	33	-15.26
				1	49	21.41	17.71	33	-15.29
				25	12	20.49	16.79	33	-16.21
				50	0	20.39	16.69	33	-16.31
	19150	1905	16QAM	1	0	21.50	17.80	33	-15.2
				1	49	21.31	17.61	33	-15.39
				25	12	20.33	16.63	33	-16.37
				50	0	20.29	16.59	33	-16.41
	18650	1855	64QAM	1	0	20.78	17.08	33	-15.92
				1	49	20.94	17.24	33	-15.76
				25	12	19.69	15.99	33	-17.01
				50	0	19.57	15.87	33	-17.13
	18900	1880	64QAM	1	0	20.57	16.87	33	-16.13
				1	49	20.34	16.64	33	-16.36
				25	12	19.53	15.83	33	-17.17
				50	0	19.36	15.66	33	-17.34
	19150	1905	64QAM	1	0	20.55	16.85	33	-16.15
				1	49	20.25	16.55	33	-16.45
				25	12	19.45	15.75	33	-17.25
				50	0	19.28	15.58	33	-17.42

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Antenna gain (dBi) -3.7

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	22.50	18.80	33	-14.2
				1	74	22.55	18.85	33	-14.15
				36	18	21.52	17.82	33	-15.18
				75	0	21.54	17.84	33	-15.16
	18900	1880	QPSK	1	0	22.26	18.56	33	-14.44
				1	74	22.29	18.59	33	-14.41
				36	18	21.42	17.72	33	-15.28
				75	0	21.35	17.65	33	-15.35
	19125	1902.5	QPSK	1	0	22.17	18.47	33	-14.53
				1	74	22.20	18.50	33	-14.5
				36	18	21.26	17.56	33	-15.44
				75	0	21.34	17.64	33	-15.36
	18675	1857.5	16QAM	1	0	21.90	18.20	33	-14.8
				1	74	21.74	18.04	33	-14.96
				36	18	20.49	16.79	33	-16.21
				75	0	20.44	16.74	33	-16.26
	18900	1880	16QAM	1	0	21.45	17.75	33	-15.25
				1	74	21.24	17.54	33	-15.46
				36	18	20.35	16.65	33	-16.35
				75	0	20.39	16.69	33	-16.31
	19125	1902.5	16QAM	1	0	21.54	17.84	33	-15.16
				1	74	21.42	17.72	33	-15.28
				36	18	20.37	16.67	33	-16.33
				75	0	20.22	16.52	33	-16.48
	18675	1857.5	64QAM	1	0	20.81	17.11	33	-15.89
				1	74	20.95	17.25	33	-15.75
				36	18	19.51	15.81	33	-17.19
				75	0	19.51	15.81	33	-17.19
	18900	1880	64QAM	1	0	20.39	16.69	33	-16.31
				1	74	20.42	16.72	33	-16.28
				36	18	19.52	15.82	33	-17.18
				75	0	19.42	15.72	33	-17.28
	19125	1902.5	64QAM	1	0	20.55	16.85	33	-16.15
				1	74	20.36	16.66	33	-16.34
				36	18	19.30	15.60	33	-17.4
				75	0	19.27	15.57	33	-17.43

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Antenna gain (dBi) -3.7

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	22.57	18.87	33	-14.13
				1	99	22.56	18.86	33	-14.14
				50	25	21.59	17.89	33	-15.11
				100	0	21.57	17.87	33	-15.13
	18900	1880	QPSK	1	0	22.34	18.64	33	-14.36
				1	99	22.40	18.70	33	-14.3
				50	25	21.57	17.87	33	-15.13
				100	0	21.57	17.87	33	-15.13
	19100	1900	QPSK	1	0	22.26	18.56	33	-14.44
				1	99	22.27	18.57	33	-14.43
				50	25	21.45	17.75	33	-15.25
				100	0	21.39	17.69	33	-15.31
	18700	1860	16QAM	1	0	21.93	18.23	33	-14.77
				1	99	21.94	18.24	33	-14.76
				50	25	20.62	16.92	33	-16.08
				100	0	20.62	16.92	33	-16.08
	18900	1880	16QAM	1	0	21.55	17.85	33	-15.15
				1	99	21.44	17.74	33	-15.26
				50	25	20.52	16.82	33	-16.18
				100	0	20.50	16.80	33	-16.2
	19100	1900	16QAM	1	0	21.60	17.90	33	-15.1
				1	99	21.44	17.74	33	-15.26
				50	25	20.42	16.72	33	-16.28
				100	0	20.35	16.65	33	-16.35
	18700	1860	64QAM	1	0	20.94	17.24	33	-15.76
				1	99	21.03	17.33	33	-15.67
				50	25	19.69	15.99	33	-17.01
				100	0	19.69	15.99	33	-17.01
	18900	1880	64QAM	1	0	20.58	16.88	33	-16.12
				1	99	20.48	16.78	33	-16.22
				50	25	19.61	15.91	33	-17.09
				100	0	19.53	15.83	33	-17.17
	19100	1900	64QAM	1	0	20.61	16.91	33	-16.09
				1	99	20.44	16.74	33	-16.26
				50	25	19.50	15.80	33	-17.2
				100	0	19.41	15.71	33	-17.29

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Antenna gain (dBi) -5.9

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	22.18	16.28	30	-13.72
				1	5	22.30	16.40	30	-13.6
				3	2	22.43	16.53	30	-13.47
				6	0	21.37	15.47	30	-14.53
	20175	1732.5	QPSK	1	0	22.18	16.28	30	-13.72
				1	5	22.33	16.43	30	-13.57
				3	2	22.36	16.46	30	-13.54
				6	0	21.52	15.62	30	-14.38
	20393	1754.3	QPSK	1	0	22.13	16.23	30	-13.77
				1	5	22.55	16.65	30	-13.35
				3	2	22.25	16.35	30	-13.65
				6	0	21.53	15.63	30	-14.37
	19957	1710.7	16QAM	1	0	21.61	15.71	30	-14.29
				1	5	21.39	15.49	30	-14.51
				3	2	21.27	15.37	30	-14.63
				6	0	20.77	14.87	30	-15.13
	20175	1732.5	16QAM	1	0	21.67	15.77	30	-14.23
				1	5	21.49	15.59	30	-14.41
				3	2	21.24	15.34	30	-14.66
				6	0	20.92	15.02	30	-14.98
	20393	1754.3	16QAM	1	0	21.52	15.62	30	-14.38
				1	5	21.54	15.64	30	-14.36
				3	2	21.11	15.21	30	-14.79
				6	0	20.75	14.85	30	-15.15
	19957	1710.7	64QAM	1	0	20.69	14.79	30	-15.21
				1	5	20.74	14.84	30	-15.16
				3	2	20.43	14.53	30	-15.47
				6	0	20.05	14.15	30	-15.85
	20175	1732.5	64QAM	1	0	20.83	14.93	30	-15.07
				1	5	20.81	14.91	30	-15.09
				3	2	20.36	14.46	30	-15.54
				6	0	19.93	14.03	30	-15.97
	20393	1754.3	64QAM	1	0	20.81	14.91	30	-15.09
				1	5	20.55	14.65	30	-15.35
				3	2	20.50	14.60	30	-15.4
				6	0	20.05	14.15	30	-15.85

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Antenna gain (dBi) -5.9

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	22.44	16.54	30	-13.46
				1	14	22.40	16.50	30	-13.5
				8	4	21.49	15.59	30	-14.41
				15	0	21.55	15.65	30	-14.35
	20175	1732.5	QPSK	1	0	22.33	16.43	30	-13.57
				1	14	22.30	16.40	30	-13.6
				8	4	21.51	15.61	30	-14.39
				15	0	21.52	15.62	30	-14.38
	20385	1753.5	QPSK	1	0	22.46	16.56	30	-13.44
				1	14	22.32	16.42	30	-13.58
				8	4	21.46	15.56	30	-14.44
				15	0	21.43	15.53	30	-14.47
	19965	1711.5	16QAM	1	0	21.79	15.89	30	-14.11
				1	14	21.50	15.60	30	-14.4
				8	4	20.69	14.79	30	-15.21
				15	0	20.56	14.66	30	-15.34
	20175	1732.5	16QAM	1	0	21.83	15.93	30	-14.07
				1	14	21.54	15.64	30	-14.36
				8	4	20.58	14.68	30	-15.32
				15	0	20.54	14.64	30	-15.36
	20385	1753.5	16QAM	1	0	21.74	15.84	30	-14.16
				1	14	21.86	15.96	30	-14.04
				8	4	20.58	14.68	30	-15.32
				15	0	20.52	14.62	30	-15.38
	19965	1711.5	64QAM	1	0	20.87	14.97	30	-15.03
				1	14	20.77	14.87	30	-15.13
				8	4	19.66	13.76	30	-16.24
				15	0	19.67	13.77	30	-16.23
	20175	1732.5	64QAM	1	0	21.11	15.21	30	-14.79
				1	14	20.61	14.71	30	-15.29
				8	4	19.74	13.84	30	-16.16
				15	0	19.55	13.65	30	-16.35
	20385	1753.5	64QAM	1	0	20.94	15.04	30	-14.96
				1	14	20.97	15.07	30	-14.93
				8	4	19.60	13.70	30	-16.3
				15	0	19.63	13.73	30	-16.27

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5	19975	1712.5	QPSK	1	0	22.51	16.61	30	-13.39
				1	24	22.45	16.55	30	-13.45
				12	6	21.47	15.57	30	-14.43
				25	0	21.58	15.68	30	-14.32
	20175	1732.5	QPSK	1	0	22.42	16.52	30	-13.48
				1	24	22.31	16.41	30	-13.59
				12	6	21.41	15.51	30	-14.49
				25	0	21.59	15.69	30	-14.31
	20375	1752.5	QPSK	1	0	22.39	16.49	30	-13.51
				1	24	22.34	16.44	30	-13.56
				12	6	21.57	15.67	30	-14.33
				25	0	21.55	15.65	30	-14.35
	19975	1712.5	16QAM	1	0	21.73	15.83	30	-14.17
				1	24	21.64	15.74	30	-14.26
				12	6	20.69	14.79	30	-15.21
				25	0	20.45	14.55	30	-15.45
	20175	1732.5	16QAM	1	0	21.86	15.96	30	-14.04
				1	24	21.47	15.57	30	-14.43
				12	6	20.65	14.75	30	-15.25
				25	0	20.38	14.48	30	-15.52
	20375	1752.5	16QAM	1	0	21.73	15.83	30	-14.17
				1	24	21.89	15.99	30	-14.01
				12	6	20.52	14.62	30	-15.38
				25	0	20.46	14.56	30	-15.44
	19975	1712.5	64QAM	1	0	20.90	15.00	30	-15
				1	24	20.66	14.76	30	-15.24
				12	6	19.81	13.91	30	-16.09
				25	0	19.58	13.68	30	-16.32
	20175	1732.5	64QAM	1	0	21.09	15.19	30	-14.81
				1	24	20.69	14.79	30	-15.21
				12	6	19.79	13.89	30	-16.11
				25	0	19.56	13.66	30	-16.34
	20375	1752.5	64QAM	1	0	20.93	15.03	30	-14.97
				1	24	20.86	14.96	30	-15.04
				12	6	19.59	13.69	30	-16.31
				25	0	19.67	13.77	30	-16.23

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Antenna gain (dBi) -5.9

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	22.45	16.55	30	-13.45
				1	49	22.45	16.55	30	-13.45
				25	12	21.56	15.66	30	-14.34
				50	0	21.67	15.77	30	-14.23
	20175	1732.5	QPSK	1	0	22.33	16.43	30	-13.57
				1	49	22.14	16.24	30	-13.76
				25	12	21.45	15.55	30	-14.45
				50	0	21.64	15.74	30	-14.26
	20375	1750	QPSK	1	0	22.56	16.66	30	-13.34
				1	49	22.36	16.46	30	-13.54
				25	12	21.54	15.64	30	-14.36
				50	0	21.54	15.64	30	-14.36
	20000	1715	16QAM	1	0	21.70	15.80	30	-14.2
				1	49	21.60	15.70	30	-14.3
				25	12	20.64	14.74	30	-15.26
				50	0	20.63	14.73	30	-15.27
	20175	1732.5	16QAM	1	0	21.92	16.02	30	-13.98
				1	49	21.45	15.55	30	-14.45
				25	12	20.54	14.64	30	-15.36
				50	0	20.51	14.61	30	-15.39
	20375	1750	16QAM	1	0	21.72	15.82	30	-14.18
				1	49	21.89	15.99	30	-14.01
				25	12	20.47	14.57	30	-15.43
				50	0	20.47	14.57	30	-15.43
	20000	1715	64QAM	1	0	20.88	14.98	30	-15.02
				1	49	20.73	14.83	30	-15.17
				25	12	19.80	13.90	30	-16.1
				50	0	19.74	13.84	30	-16.16
	20175	1732.5	64QAM	1	0	21.05	15.15	30	-14.85
				1	49	20.61	14.71	30	-15.29
				25	12	19.76	13.86	30	-16.14
				50	0	19.67	13.77	30	-16.23
	20375	1750	64QAM	1	0	20.82	14.92	30	-15.08
				1	49	20.86	14.96	30	-15.04
				25	12	19.59	13.69	30	-16.31
				50	0	19.65	13.75	30	-16.25

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Antenna gain (dBi) -5.9

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	22.35	16.45	30	-13.55
				1	74	22.40	16.50	30	-13.5
				36	18	21.59	15.69	30	-14.31
				75	0	21.66	15.76	30	-14.24
	20175	1732.5	QPSK	1	0	22.38	16.48	30	-13.52
				1	74	22.13	16.23	30	-13.77
				36	18	21.40	15.50	30	-14.5
				75	0	21.57	15.67	30	-14.33
	20325	1747.5	QPSK	1	0	22.56	16.66	30	-13.34
				1	74	22.25	16.35	30	-13.65
				36	18	21.58	15.68	30	-14.32
				75	0	21.47	15.57	30	-14.43
	20025	1717.5	16QAM	1	0	21.74	15.84	30	-14.16
				1	74	21.57	15.67	30	-14.33
				36	18	20.67	14.77	30	-15.23
				75	0	20.47	14.57	30	-15.43
	20175	1732.5	16QAM	1	0	21.96	16.06	30	-13.94
				1	74	21.47	15.57	30	-14.43
				36	18	20.49	14.59	30	-15.41
				75	0	20.43	14.53	30	-15.47
	20325	1747.5	16QAM	1	0	21.72	15.82	30	-14.18
				1	74	21.73	15.83	30	-14.17
				36	18	20.63	14.73	30	-15.27
				75	0	20.60	14.70	30	-15.3
	20025	1717.5	64QAM	1	0	20.94	15.04	30	-14.96
				1	74	20.70	14.80	30	-15.2
				36	18	19.78	13.88	30	-16.12
				75	0	19.70	13.80	30	-16.2
	20175	1732.5	64QAM	1	0	21.01	15.11	30	-14.89
				1	74	20.67	14.77	30	-15.23
				36	18	19.65	13.75	30	-16.25
				75	0	19.57	13.67	30	-16.33
	20325	1747.5	64QAM	1	0	20.96	15.06	30	-14.94
				1	74	20.95	15.05	30	-14.95
				36	18	19.62	13.72	30	-16.28
				75	0	19.57	13.67	30	-16.33

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Antenna gain (dBi) -5.9

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	22.55	16.65	30	-13.35
				1	99	22.50	16.60	30	-13.4
				50	25	21.65	15.75	30	-14.25
				100	0	21.70	15.80	30	-14.2
	20175	1732.5	QPSK	1	0	22.52	16.62	30	-13.38
				1	99	22.32	16.42	30	-13.58
				50	25	21.59	15.69	30	-14.31
				100	0	21.65	15.75	30	-14.25
	20300	1745	QPSK	1	0	22.58	16.68	30	-13.32
				1	99	22.38	16.48	30	-13.52
				50	25	21.59	15.69	30	-14.31
				100	0	21.57	15.67	30	-14.33
	20050	1720	16QAM	1	0	21.80	15.90	30	-14.1
				1	99	21.69	15.79	30	-14.21
				50	25	20.73	14.83	30	-15.17
				100	0	20.64	14.74	30	-15.26
	20175	1732.5	16QAM	1	0	22.01	16.11	30	-13.89
				1	99	21.56	15.66	30	-14.34
				50	25	20.67	14.77	30	-15.23
				100	0	20.56	14.66	30	-15.34
	20300	1745	16QAM	1	0	21.85	15.95	30	-14.05
				1	99	21.89	15.99	30	-14.01
				50	25	20.64	14.74	30	-15.26
				100	0	20.62	14.72	30	-15.28
	20050	1720	64QAM	1	0	20.96	15.06	30	-14.94
				1	99	20.82	14.92	30	-15.08
				50	25	19.84	13.94	30	-16.06
				100	0	19.75	13.85	30	-16.15
	20175	1732.5	64QAM	1	0	21.18	15.28	30	-14.72
				1	99	20.75	14.85	30	-15.15
				50	25	19.85	13.95	30	-16.05
				100	0	19.75	13.85	30	-16.15
	20300	1745	64QAM	1	0	21.01	15.11	30	-14.89
				1	99	21.02	15.12	30	-14.88
				50	25	19.78	13.88	30	-16.12
				100	0	19.73	13.83	30	-16.17

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Antenna gain (dBi) -10.3

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	22.93	10.48	12.63	38.45	-25.82
				1	5	23.06	10.61	12.76	38.45	-25.69
				3	2	22.66	10.21	12.36	38.45	-26.09
				6	0	21.89	9.44	11.59	38.45	-26.86
	20525	836.5	QPSK	1	0	22.92	10.47	12.62	38.45	-25.83
				1	5	23.08	10.63	12.78	38.45	-25.67
				3	2	22.62	10.17	12.32	38.45	-26.13
				6	0	21.83	9.38	11.53	38.45	-26.92
	20643	848.3	QPSK	1	0	22.96	10.51	12.66	38.45	-25.79
				1	5	22.99	10.54	12.69	38.45	-25.76
				3	2	22.64	10.19	12.34	38.45	-26.11
				6	0	22.01	9.56	11.71	38.45	-26.74
	20407	824.7	16QAM	1	0	22.08	9.63	11.78	38.45	-26.67
				1	5	21.71	9.26	11.41	38.45	-27.04
				3	2	21.90	9.45	11.60	38.45	-26.85
				6	0	20.92	8.47	10.62	38.45	-27.83
	20525	836.5	16QAM	1	0	22.10	9.65	11.80	38.45	-26.65
				1	5	21.95	9.50	11.65	38.45	-26.8
				3	2	22.39	9.94	12.09	38.45	-26.36
				6	0	21.01	8.56	10.71	38.45	-27.74
	20643	848.3	16QAM	1	0	22.22	9.77	11.92	38.45	-26.53
				1	5	21.95	9.50	11.65	38.45	-26.8
				3	2	22.30	9.85	12.00	38.45	-26.45
				6	0	20.77	8.32	10.47	38.45	-27.98
	20407	824.7	64QAM	1	0	21.07	8.62	10.77	38.45	-27.68
				1	5	20.87	8.42	10.57	38.45	-27.88
				3	2	20.72	8.27	10.42	38.45	-28.03
				6	0	19.69	7.24	9.39	38.45	-29.06
	20525	836.5	64QAM	1	0	21.00	8.55	10.70	38.45	-27.75
				1	5	20.76	8.31	10.46	38.45	-27.99
				3	2	20.91	8.46	10.61	38.45	-27.84
				6	0	19.78	7.33	9.48	38.45	-28.97
	20643	848.3	64QAM	1	0	21.10	8.65	10.80	38.45	-27.65
				1	5	20.88	8.43	10.58	38.45	-27.87
				3	2	20.85	8.40	10.55	38.45	-27.9
				6	0	19.71	7.26	9.41	38.45	-29.04

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Antenna gain (dBi) -10.3

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	22.86	10.41	12.56	38.45	-25.89
				1	14	22.86	10.41	12.56	38.45	-25.89
				8	4	22.12	9.67	11.82	38.45	-26.63
				15	0	22.12	9.67	11.82	38.45	-26.63
	20525	836.5	QPSK	1	0	22.93	10.48	12.63	38.45	-25.82
				1	14	22.96	10.51	12.66	38.45	-25.79
				8	4	22.13	9.68	11.83	38.45	-26.62
				15	0	22.07	9.62	11.77	38.45	-26.68
	20635	847.5	QPSK	1	0	22.77	10.32	12.47	38.45	-25.98
				1	14	22.79	10.34	12.49	38.45	-25.96
				8	4	22.14	9.69	11.84	38.45	-26.61
				15	0	21.95	9.50	11.65	38.45	-26.8
	20415	825.5	16QAM	1	0	22.30	9.85	12.00	38.45	-26.45
				1	14	22.39	9.94	12.09	38.45	-26.36
				8	4	21.30	8.85	11.00	38.45	-27.45
				15	0	21.18	8.73	10.88	38.45	-27.57
	20525	836.5	16QAM	1	0	22.60	10.15	12.30	38.45	-26.15
				1	14	22.24	9.79	11.94	38.45	-26.51
				8	4	20.90	8.45	10.60	38.45	-27.85
				15	0	20.97	8.52	10.67	38.45	-27.78
	20635	847.5	16QAM	1	0	22.07	9.62	11.77	38.45	-26.68
				1	14	22.41	9.96	12.11	38.45	-26.34
				8	4	21.14	8.69	10.84	38.45	-27.61
				15	0	21.14	8.69	10.84	38.45	-27.61
	20415	825.5	64QAM	1	0	21.69	9.24	11.39	38.45	-27.06
				1	14	21.67	9.22	11.37	38.45	-27.08
				8	4	20.53	8.08	10.23	38.45	-28.22
				15	0	20.30	7.85	10.00	38.45	-28.45
	20525	836.5	64QAM	1	0	21.86	9.41	11.56	38.45	-26.89
				1	14	21.57	9.12	11.27	38.45	-27.18
				8	4	20.24	7.79	9.94	38.45	-28.51
				15	0	20.19	7.74	9.89	38.45	-28.56
	20635	847.5	64QAM	1	0	21.32	8.87	11.02	38.45	-27.43
				1	14	21.62	9.17	11.32	38.45	-27.13
				8	4	20.45	8.00	10.15	38.45	-28.3
				15	0	20.32	7.87	10.02	38.45	-28.43

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Antenna gain (dBi) -10.3

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.10	10.65	12.80	38.45	-25.65
				1	24	23.07	10.62	12.77	38.45	-25.68
				12	6	22.23	9.78	11.93	38.45	-26.52
				25	0	22.19	9.74	11.89	38.45	-26.56
	20525	836.5	QPSK	1	0	23.14	10.69	12.84	38.45	-25.61
				1	24	22.97	10.52	12.67	38.45	-25.78
				12	6	22.13	9.68	11.83	38.45	-26.62
				25	0	22.19	9.74	11.89	38.45	-26.56
	20625	846.5	QPSK	1	0	23.05	10.60	12.75	38.45	-25.7
				1	24	23.05	10.60	12.75	38.45	-25.7
				12	6	22.14	9.69	11.84	38.45	-26.61
				25	0	22.07	9.62	11.77	38.45	-26.68
	20425	826.5	16QAM	1	0	22.19	9.74	11.89	38.45	-26.56
				1	24	22.17	9.72	11.87	38.45	-26.58
				12	6	21.24	8.79	10.94	38.45	-27.51
				25	0	21.21	8.76	10.91	38.45	-27.54
	20525	836.5	16QAM	1	0	22.05	9.60	11.75	38.45	-26.7
				1	24	22.72	10.27	12.42	38.45	-26.03
				12	6	21.10	8.65	10.80	38.45	-27.65
				25	0	21.12	8.67	10.82	38.45	-27.63
	20625	846.5	16QAM	1	0	22.11	9.66	11.81	38.45	-26.64
				1	24	22.22	9.77	11.92	38.45	-26.53
				12	6	21.15	8.70	10.85	38.45	-27.6
				25	0	21.03	8.58	10.73	38.45	-27.72
	20425	826.5	64QAM	1	0	21.42	8.97	11.12	38.45	-27.33
				1	24	21.46	9.01	11.16	38.45	-27.29
				12	6	20.51	8.06	10.21	38.45	-28.24
				25	0	20.47	8.02	10.17	38.45	-28.28
	20525	836.5	64QAM	1	0	21.25	8.80	10.95	38.45	-27.5
				1	24	21.95	9.50	11.65	38.45	-26.8
				12	6	20.37	7.92	10.07	38.45	-28.38
				25	0	20.41	7.96	10.11	38.45	-28.34
	20625	846.5	64QAM	1	0	21.32	8.87	11.02	38.45	-27.43
				1	24	21.49	9.04	11.19	38.45	-27.26
				12	6	20.39	7.94	10.09	38.45	-28.36
				25	0	20.25	7.80	9.95	38.45	-28.5

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Antenna gain (dBi) -10.3

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.06	10.61	12.76	38.45	-25.69
				1	49	22.93	10.48	12.63	38.45	-25.82
				25	12	22.23	9.78	11.93	38.45	-26.52
				50	0	22.22	9.77	11.92	38.45	-26.53
	20525	836.5	QPSK	1	0	22.94	10.49	12.64	38.45	-25.81
				1	49	23.01	10.56	12.71	38.45	-25.74
				25	12	22.19	9.74	11.89	38.45	-26.56
				50	0	22.17	9.72	11.87	38.45	-26.58
	20600	844	QPSK	1	0	22.89	10.44	12.59	38.45	-25.86
				1	49	22.88	10.43	12.58	38.45	-25.87
				25	12	22.18	9.73	11.88	38.45	-26.57
				50	0	21.97	9.52	11.67	38.45	-26.78
	20450	829	16QAM	1	0	22.49	10.04	12.19	38.45	-26.26
				1	49	22.55	10.10	12.25	38.45	-26.2
				25	12	21.30	8.85	11.00	38.45	-27.45
				50	0	21.18	8.73	10.88	38.45	-27.57
	20525	836.5	16QAM	1	0	22.67	10.22	12.37	38.45	-26.08
				1	49	22.38	9.93	12.08	38.45	-26.37
				25	12	21.08	8.63	10.78	38.45	-27.67
				50	0	21.15	8.70	10.85	38.45	-27.6
	20600	844	16QAM	1	0	22.11	9.66	11.81	38.45	-26.64
				1	49	22.53	10.08	12.23	38.45	-26.22
				25	12	21.19	8.74	10.89	38.45	-27.56
				50	0	21.18	8.73	10.88	38.45	-27.57
	20450	829	64QAM	1	0	21.71	9.26	11.41	38.45	-27.04
				1	49	21.79	9.34	11.49	38.45	-26.96
				25	12	20.57	8.12	10.27	38.45	-28.18
				50	0	20.39	7.94	10.09	38.45	-28.36
	20525	836.5	64QAM	1	0	21.93	9.48	11.63	38.45	-26.82
				1	49	21.63	9.18	11.33	38.45	-27.12
				25	12	20.38	7.93	10.08	38.45	-28.37
				50	0	20.37	7.92	10.07	38.45	-28.38
	20600	844	64QAM	1	0	21.38	8.93	11.08	38.45	-27.37
				1	49	21.80	9.35	11.50	38.45	-26.95
				25	12	20.47	8.02	10.17	38.45	-28.28
				50	0	20.39	7.94	10.09	38.45	-28.36

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Antenna gain (dBi) -3.4

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	22.68	19.28	33	-13.72
				1	24	22.83	19.43	33	-13.57
				12	6	21.77	18.37	33	-14.63
				25	0	21.83	18.43	33	-14.57
	21100	2535	QPSK	1	0	22.69	19.29	33	-13.71
				1	24	22.85	19.45	33	-13.55
				12	6	21.94	18.54	33	-14.46
				25	0	21.97	18.57	33	-14.43
	21375	2567.5	QPSK	1	0	22.73	19.33	33	-13.67
				1	24	22.94	19.54	33	-13.46
				12	6	22.11	18.71	33	-14.29
				25	0	21.98	18.58	33	-14.42
	20775	2502.5	16QAM	1	0	21.99	18.59	33	-14.41
				1	24	22.25	18.85	33	-14.15
				12	6	20.79	17.39	33	-15.61
				25	0	20.82	17.42	33	-15.58
	21100	2535	16QAM	1	0	22.18	18.78	33	-14.22
				1	24	21.91	18.51	33	-14.49
				12	6	21.03	17.63	33	-15.37
				25	0	20.82	17.42	33	-15.58
	21375	2567.5	16QAM	1	0	21.92	18.52	33	-14.48
				1	24	22.58	19.18	33	-13.82
				12	6	20.92	17.52	33	-15.48
				25	0	20.85	17.45	33	-15.55
	20775	2502.5	64QAM	1	0	21.33	17.93	33	-15.07
				1	24	21.49	18.09	33	-14.91
				12	6	20.29	16.89	33	-16.11
				25	0	20.18	16.78	33	-16.22
	21100	2535	64QAM	1	0	21.52	18.12	33	-14.88
				1	24	21.45	18.05	33	-14.95
				12	6	20.24	16.84	33	-16.16
				25	0	20.22	16.82	33	-16.18
	21375	2567.5	64QAM	1	0	21.28	17.88	33	-15.12
				1	24	21.92	18.52	33	-14.48
				12	6	20.35	16.95	33	-16.05
				25	0	20.20	16.80	33	-16.2

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Antenna gain (dBi) -3.4

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	22.76	19.36	33	-13.64
				1	49	22.82	19.42	33	-13.58
				25	12	21.94	18.54	33	-14.46
				50	0	21.91	18.51	33	-14.49
	21100	2535	QPSK	1	0	22.65	19.25	33	-13.75
				1	49	22.99	19.59	33	-13.41
				25	12	22.03	18.63	33	-14.37
				50	0	22.04	18.64	33	-14.36
	21350	2565	QPSK	1	0	22.73	19.33	33	-13.67
				1	49	22.93	19.53	33	-13.47
				25	12	22.14	18.74	33	-14.26
				50	0	21.91	18.51	33	-14.49
	20800	2505	16QAM	1	0	21.98	18.58	33	-14.42
				1	49	22.24	18.84	33	-14.16
				25	12	20.86	17.46	33	-15.54
				50	0	20.87	17.47	33	-15.53
	21100	2535	16QAM	1	0	22.09	18.69	33	-14.31
				1	49	21.89	18.49	33	-14.51
				25	12	21.11	17.71	33	-15.29
				50	0	20.83	17.43	33	-15.57
	21350	2565	16QAM	1	0	22.01	18.61	33	-14.39
				1	49	22.46	19.06	33	-13.94
				25	12	20.91	17.51	33	-15.49
				50	0	20.80	17.40	33	-15.6
	20800	2505	64QAM	1	0	21.29	17.89	33	-15.11
				1	49	21.50	18.10	33	-14.9
				25	12	20.18	16.78	33	-16.22
				50	0	20.18	16.78	33	-16.22
	21100	2535	64QAM	1	0	21.55	18.15	33	-14.85
				1	49	21.44	18.04	33	-14.96
				25	12	20.33	16.93	33	-16.07
				50	0	20.23	16.83	33	-16.17
	21350	2565	64QAM	1	0	21.36	17.96	33	-15.04
				1	49	21.85	18.45	33	-14.55
				25	12	20.34	16.94	33	-16.06
				50	0	20.14	16.74	33	-16.26

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Antenna gain (dBi) -3.4

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	22.59	19.19	33	-13.81
				1	74	22.70	19.30	33	-13.7
				36	18	21.89	18.49	33	-14.51
				75	0	21.75	18.35	33	-14.65
	21100	2535	QPSK	1	0	22.66	19.26	33	-13.74
				1	74	22.86	19.46	33	-13.54
				36	18	21.92	18.52	33	-14.48
				75	0	21.93	18.53	33	-14.47
	21375	2562.5	QPSK	1	0	22.81	19.41	33	-13.59
				1	74	22.97	19.57	33	-13.43
				36	18	22.12	18.72	33	-14.28
				75	0	21.90	18.50	33	-14.5
	20825	2507.5	16QAM	1	0	21.94	18.54	33	-14.46
				1	74	22.12	18.72	33	-14.28
				36	18	20.87	17.47	33	-15.53
				75	0	20.75	17.35	33	-15.65
	21100	2535	16QAM	1	0	22.18	18.78	33	-14.22
				1	74	21.93	18.53	33	-14.47
				36	18	21.02	17.62	33	-15.38
				75	0	20.90	17.50	33	-15.5
	21375	2562.5	16QAM	1	0	21.94	18.54	33	-14.46
				1	74	22.52	19.12	33	-13.88
				36	18	20.96	17.56	33	-15.44
				75	0	20.90	17.50	33	-15.5
	20825	2507.5	64QAM	1	0	21.34	17.94	33	-15.06
				1	74	21.55	18.15	33	-14.85
				36	18	20.20	16.80	33	-16.2
				75	0	20.14	16.74	33	-16.26
	21100	2535	64QAM	1	0	21.49	18.09	33	-14.91
				1	74	21.39	17.99	33	-15.01
				36	18	20.26	16.86	33	-16.14
				75	0	20.25	16.85	33	-16.15
	21375	2562.5	64QAM	1	0	21.36	17.96	33	-15.04
				1	74	21.89	18.49	33	-14.51
				36	18	20.28	16.88	33	-16.12
				75	0	20.13	16.73	33	-16.27

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Antenna gain (dBi) -3.4

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	22.79	19.39	33	-13.61
				1	99	22.89	19.49	33	-13.51
				50	25	21.94	18.54	33	-14.46
				100	0	21.94	18.54	33	-14.46
	21100	2535	QPSK	1	0	22.71	19.31	33	-13.69
				1	99	23.01	19.61	33	-13.39
				50	25	22.04	18.64	33	-14.36
				100	0	22.05	18.65	33	-14.35
	21350	2560	QPSK	1	0	22.83	19.43	33	-13.57
				1	99	23.11	19.71	33	-13.29
				50	25	22.15	18.75	33	-14.25
				100	0	22.02	18.62	33	-14.38
	20850	2510	16QAM	1	0	22.13	18.73	33	-14.27
				1	99	22.29	18.89	33	-14.11
				50	25	20.99	17.59	33	-15.41
				100	0	20.93	17.53	33	-15.47
	21100	2535	16QAM	1	0	22.28	18.88	33	-14.12
				1	99	22.09	18.69	33	-14.31
				50	25	21.11	17.71	33	-15.29
				100	0	20.97	17.57	33	-15.43
	21350	2560	16QAM	1	0	22.05	18.65	33	-14.35
				1	99	22.61	19.21	33	-13.79
				50	25	21.06	17.66	33	-15.34
				100	0	20.99	17.59	33	-15.41
	20850	2510	64QAM	1	0	21.47	18.07	33	-14.93
				1	99	21.62	18.22	33	-14.78
				50	25	20.35	16.95	33	-16.05
				100	0	20.29	16.89	33	-16.11
	21100	2535	64QAM	1	0	21.63	18.23	33	-14.77
				1	99	21.48	18.08	33	-14.92
				50	25	20.41	17.01	33	-15.99
				100	0	20.34	16.94	33	-16.06
	21350	2560	64QAM	1	0	21.43	18.03	33	-14.97
				1	99	21.96	18.56	33	-14.44
				50	25	20.36	16.96	33	-16.04
				100	0	20.29	16.89	33	-16.11

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Antenna gain (dBi) -11.4

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.37	8.82	10.97	34.77	-23.8
				1	5	22.53	8.98	11.13	34.77	-23.64
				3	2	22.71	9.16	11.31	34.77	-23.46
				6	0	21.76	8.21	10.36	34.77	-24.41
	23095	707.5	QPSK	1	0	22.67	9.12	11.27	34.77	-23.5
				1	5	22.58	9.03	11.18	34.77	-23.59
				3	2	22.72	9.17	11.32	34.77	-23.45
				6	0	21.46	7.91	10.06	34.77	-24.71
	23173	715.5	QPSK	1	0	22.67	9.12	11.27	34.77	-23.5
				1	5	22.69	9.14	11.29	34.77	-23.48
				3	2	22.51	8.96	11.11	34.77	-23.66
				6	0	21.55	8.00	10.15	34.77	-24.62
	23017	699.7	16QAM	1	0	21.48	7.93	10.08	34.77	-24.69
				1	5	21.53	7.98	10.13	34.77	-24.64
				3	2	21.66	8.11	10.26	34.77	-24.51
				6	0	20.51	6.96	9.11	34.77	-25.66
	23095	707.5	16QAM	1	0	21.63	8.08	10.23	34.77	-24.54
				1	5	21.49	7.94	10.09	34.77	-24.68
				3	2	21.52	7.97	10.12	34.77	-24.65
				6	0	20.59	7.04	9.19	34.77	-25.58
	23173	715.5	16QAM	1	0	21.58	8.03	10.18	34.77	-24.59
				1	5	21.51	7.96	10.11	34.77	-24.66
				3	2	21.63	8.08	10.23	34.77	-24.54
				6	0	20.48	6.93	9.08	34.77	-25.69
	23017	699.7	64QAM	1	0	21.00	7.45	9.60	34.77	-25.17
				1	5	20.80	7.25	9.40	34.77	-25.37
				3	2	21.04	7.49	9.64	34.77	-25.13
				6	0	20.09	6.54	8.69	34.77	-26.08
	23095	707.5	64QAM	1	0	20.85	7.30	9.45	34.77	-25.32
				1	5	20.95	7.40	9.55	34.77	-25.22
				3	2	20.99	7.44	9.59	34.77	-25.18
				6	0	20.08	6.53	8.68	34.77	-26.09
	23173	715.5	64QAM	1	0	20.92	7.37	9.52	34.77	-25.25
				1	5	20.91	7.36	9.51	34.77	-25.26
				3	2	21.02	7.47	9.62	34.77	-25.15
				6	0	19.98	6.43	8.58	34.77	-26.19

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Antenna gain (dBi) -11.4

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.99	9.44	11.59	34.77	-23.18
				1	14	22.77	9.22	11.37	34.77	-23.4
				8	4	21.91	8.36	10.51	34.77	-24.26
				15	0	22.18	8.63	10.78	34.77	-23.99
	23095	707.5	QPSK	1	0	23.01	9.46	11.61	34.77	-23.16
				1	14	22.79	9.24	11.39	34.77	-23.38
				8	4	21.97	8.42	10.57	34.77	-24.2
				15	0	21.91	8.36	10.51	34.77	-24.26
	23165	714.5	QPSK	1	0	22.72	9.17	11.32	34.77	-23.45
				1	14	22.76	9.21	11.36	34.77	-23.41
				8	4	22.07	8.52	10.67	34.77	-24.1
				15	0	21.87	8.32	10.47	34.77	-24.3
	23025	700.5	16QAM	1	0	21.91	8.36	10.51	34.77	-24.26
				1	14	22.21	8.66	10.81	34.77	-23.96
				8	4	21.10	7.55	9.70	34.77	-25.07
				15	0	21.17	7.62	9.77	34.77	-25
	23095	707.5	16QAM	1	0	22.54	8.99	11.14	34.77	-23.63
				1	14	22.53	8.98	11.13	34.77	-23.64
				8	4	21.11	7.56	9.71	34.77	-25.06
				15	0	21.03	7.48	9.63	34.77	-25.14
	23165	714.5	16QAM	1	0	22.32	8.77	10.92	34.77	-23.85
				1	14	21.91	8.36	10.51	34.77	-24.26
				8	4	20.82	7.27	9.42	34.77	-25.35
				15	0	20.86	7.31	9.46	34.77	-25.31
	23025	700.5	64QAM	1	0	21.17	7.62	9.77	34.77	-25
				1	14	21.21	7.66	9.81	34.77	-24.96
				8	4	20.31	6.76	8.91	34.77	-25.86
				15	0	20.43	6.88	9.03	34.77	-25.74
	23095	707.5	64QAM	1	0	21.69	8.14	10.29	34.77	-24.48
				1	14	21.83	8.28	10.43	34.77	-24.34
				8	4	20.24	6.69	8.84	34.77	-25.93
				15	0	20.25	6.70	8.85	34.77	-25.92
	23165	714.5	64QAM	1	0	21.55	8.00	10.15	34.77	-24.62
				1	14	21.16	7.61	9.76	34.77	-25.01
				8	4	20.09	6.54	8.69	34.77	-26.08
				15	0	20.09	6.54	8.69	34.77	-26.08

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Antenna gain (dBi) -11.4

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	23.06	9.51	11.66	34.77	-23.11
				1	24	23.05	9.50	11.65	34.77	-23.12
				12	6	22.14	8.59	10.74	34.77	-24.03
				25	0	22.17	8.62	10.77	34.77	-24
	23095	707.5	QPSK	1	0	23.04	9.49	11.64	34.77	-23.13
				1	24	23.02	9.47	11.62	34.77	-23.15
				12	6	22.06	8.51	10.66	34.77	-24.11
				25	0	22.08	8.53	10.68	34.77	-24.09
	23155	713.5	QPSK	1	0	22.87	9.32	11.47	34.77	-23.3
				1	24	22.98	9.43	11.58	34.77	-23.19
				12	6	22.09	8.54	10.69	34.77	-24.08
				25	0	22.04	8.49	10.64	34.77	-24.13
	23035	701.5	16QAM	1	0	22.63	9.08	11.23	34.77	-23.54
				1	24	22.35	8.80	10.95	34.77	-23.82
				12	6	21.16	7.61	9.76	34.77	-25.01
				25	0	21.11	7.56	9.71	34.77	-25.06
	23095	707.5	16QAM	1	0	22.37	8.82	10.97	34.77	-23.8
				1	24	22.59	9.04	11.19	34.77	-23.58
				12	6	21.10	7.55	9.70	34.77	-25.07
				25	0	20.96	7.41	9.56	34.77	-25.21
	23155	713.5	16QAM	1	0	22.49	8.94	11.09	34.77	-23.68
				1	24	22.55	9.00	11.15	34.77	-23.62
				12	6	21.19	7.64	9.79	34.77	-24.98
				25	0	20.99	7.44	9.59	34.77	-25.18
	23035	701.5	64QAM	1	0	21.75	8.20	10.35	34.77	-24.42
				1	24	21.49	7.94	10.09	34.77	-24.68
				12	6	20.30	6.75	8.90	34.77	-25.87
				25	0	20.29	6.74	8.89	34.77	-25.88
	23095	707.5	64QAM	1	0	21.56	8.01	10.16	34.77	-24.61
				1	24	21.71	8.16	10.31	34.77	-24.46
				12	6	20.23	6.68	8.83	34.77	-25.94
				25	0	20.16	6.61	8.76	34.77	-26.01
	23155	713.5	64QAM	1	0	21.68	8.13	10.28	34.77	-24.49
				1	24	21.66	8.11	10.26	34.77	-24.51
				12	6	20.33	6.78	8.93	34.77	-25.84
				25	0	20.11	6.56	8.71	34.77	-26.06

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Antenna gain (dBi) -11.4

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.00	9.45	11.60	34.77	-23.17
				1	49	22.95	9.40	11.55	34.77	-23.22
				25	12	22.10	8.55	10.70	34.77	-24.07
				50	0	22.37	8.82	10.97	34.77	-23.8
	23095	707.5	QPSK	1	0	23.12	9.57	11.72	34.77	-23.05
				1	49	22.82	9.27	11.42	34.77	-23.35
				25	12	22.10	8.55	10.70	34.77	-24.07
				50	0	21.95	8.40	10.55	34.77	-24.22
	23130	711	QPSK	1	0	22.82	9.27	11.42	34.77	-23.35
				1	49	22.91	9.36	11.51	34.77	-23.26
				25	12	22.12	8.57	10.72	34.77	-24.05
				50	0	21.99	8.44	10.59	34.77	-24.18
	23060	704	16QAM	1	0	22.09	8.54	10.69	34.77	-24.08
				1	49	22.25	8.70	10.85	34.77	-23.92
				25	12	21.17	7.62	9.77	34.77	-25
				50	0	21.25	7.70	9.85	34.77	-24.92
	23095	707.5	16QAM	1	0	22.56	9.01	11.16	34.77	-23.61
				1	49	22.68	9.13	11.28	34.77	-23.49
				25	12	21.16	7.61	9.76	34.77	-25.01
				50	0	21.10	7.55	9.70	34.77	-25.07
	23130	711	16QAM	1	0	22.42	8.87	11.02	34.77	-23.75
				1	49	22.09	8.54	10.69	34.77	-24.08
				25	12	20.96	7.41	9.56	34.77	-25.21
				50	0	21.03	7.48	9.63	34.77	-25.14
	23060	704	64QAM	1	0	21.20	7.65	9.80	34.77	-24.97
				1	49	21.38	7.83	9.98	34.77	-24.79
				25	12	20.36	6.81	8.96	34.77	-25.81
				50	0	20.44	6.89	9.04	34.77	-25.73
	23095	707.5	64QAM	1	0	21.75	8.20	10.35	34.77	-24.42
				1	49	21.83	8.28	10.43	34.77	-24.34
				25	12	20.29	6.74	8.89	34.77	-25.88
				50	0	20.27	6.72	8.87	34.77	-25.9
	23130	711	64QAM	1	0	21.57	8.02	10.17	34.77	-24.6
				1	49	21.22	7.67	9.82	34.77	-24.95
				25	12	20.12	6.57	8.72	34.77	-26.05
				50	0	20.13	6.58	8.73	34.77	-26.04

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Antenna gain (dBi) -7.6

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.08	13.33	15.48	34.77	-19.29
				1	24	23.11	13.36	15.51	34.77	-19.26
				12	6	22.36	12.61	14.76	34.77	-20.01
				25	0	22.34	12.59	14.74	34.77	-20.03
	23230	782	QPSK	1	0	23.30	13.55	15.70	34.77	-19.07
				1	24	23.25	13.50	15.65	34.77	-19.12
				12	6	22.35	12.60	14.75	34.77	-20.02
				25	0	22.27	12.52	14.67	34.77	-20.1
	23255	784.5	QPSK	1	0	23.20	13.45	15.60	34.77	-19.17
				1	24	23.34	13.59	15.74	34.77	-19.03
				12	6	22.40	12.65	14.80	34.77	-19.97
				25	0	22.33	12.58	14.73	34.77	-20.04
	23205	779.5	16QAM	1	0	22.05	12.30	14.45	34.77	-20.32
				1	24	22.39	12.64	14.79	34.77	-19.98
				12	6	21.38	11.63	13.78	34.77	-20.99
				25	0	21.42	11.67	13.82	34.77	-20.95
	23230	782	16QAM	1	0	22.37	12.62	14.77	34.77	-20
				1	24	22.80	13.05	15.20	34.77	-19.57
				12	6	21.37	11.62	13.77	34.77	-21
				25	0	21.22	11.47	13.62	34.77	-21.15
	23255	784.5	16QAM	1	0	22.64	12.89	15.04	34.77	-19.73
				1	24	22.78	13.03	15.18	34.77	-19.59
				12	6	21.45	11.70	13.85	34.77	-20.92
				25	0	21.49	11.74	13.89	34.77	-20.88
	23205	779.5	64QAM	1	0	21.28	11.53	13.68	34.77	-21.09
				1	24	21.63	11.88	14.03	34.77	-20.74
				12	6	20.63	10.88	13.03	34.77	-21.74
				25	0	20.64	10.89	13.04	34.77	-21.73
	23230	782	64QAM	1	0	21.57	11.82	13.97	34.77	-20.8
				1	24	21.88	12.13	14.28	34.77	-20.49
				12	6	20.59	10.84	12.99	34.77	-21.78
				25	0	20.47	10.72	12.87	34.77	-21.9
	23255	784.5	64QAM	1	0	21.84	12.09	14.24	34.77	-20.53
				1	24	21.79	12.04	14.19	34.77	-20.58
				12	6	20.66	10.91	13.06	34.77	-21.71
				25	0	20.78	11.03	13.18	34.77	-21.59

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Antenna gain (dBi) -7.6

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.23	13.48	15.63	34.77	-19.14
				1	49	23.18	13.43	15.58	34.77	-19.19
				25	12	22.36	12.61	14.76	34.77	-20.01
				50	0	22.32	12.57	14.72	34.77	-20.05
	23230	782	16QAM	1	0	22.61	12.86	15.01	34.77	-19.76
				1	49	22.48	12.73	14.88	34.77	-19.89
				25	12	21.39	11.64	13.79	34.77	-20.98
				50	0	21.46	11.71	13.86	34.77	-20.91
	23230	782	64QAM	1	0	21.68	11.93	14.08	34.77	-20.69
				1	49	21.51	11.76	13.91	34.77	-20.86
				25	12	20.40	10.65	12.80	34.77	-21.97
				50	0	20.52	10.77	12.92	34.77	-21.85

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Antenna gain (dBi) -11.4

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.74	9.19	11.34	34.77	-23.43
				1	24	22.86	9.31	11.46	34.77	-23.31
				12	6	21.99	8.44	10.59	34.77	-24.18
				25	0	22.01	8.46	10.61	34.77	-24.16
	23790	710	QPSK	1	0	22.80	9.25	11.40	34.77	-23.37
				1	24	22.75	9.20	11.35	34.77	-23.42
				12	6	21.97	8.42	10.57	34.77	-24.2
				25	0	21.79	8.24	10.39	34.77	-24.38
	23825	713.5	QPSK	1	0	22.56	9.01	11.16	34.77	-23.61
				1	24	22.92	9.37	11.52	34.77	-23.25
				12	6	21.87	8.32	10.47	34.77	-24.3
				25	0	21.93	8.38	10.53	34.77	-24.24
	23755	706.5	16QAM	1	0	22.32	8.77	10.92	34.77	-23.85
				1	24	22.15	8.60	10.75	34.77	-24.02
				12	6	21.02	7.47	9.62	34.77	-25.15
				25	0	21.05	7.50	9.65	34.77	-25.12
	23790	710	16QAM	1	0	22.06	8.51	10.66	34.77	-24.11
				1	24	22.00	8.45	10.60	34.77	-24.17
				12	6	20.87	7.32	9.47	34.77	-25.3
				25	0	21.03	7.48	9.63	34.77	-25.14
	23825	713.5	16QAM	1	0	22.19	8.64	10.79	34.77	-23.98
				1	24	22.49	8.94	11.09	34.77	-23.68
				12	6	20.90	7.35	9.50	34.77	-25.27
				25	0	20.88	7.33	9.48	34.77	-25.29
	23755	706.5	64QAM	1	0	21.48	7.93	10.08	34.77	-24.69
				1	24	21.26	7.71	9.86	34.77	-24.91
				12	6	20.18	6.63	8.78	34.77	-25.99
				25	0	20.08	6.53	8.68	34.77	-26.09
	23790	710	64QAM	1	0	21.08	7.53	9.68	34.77	-25.09
				1	24	21.16	7.61	9.76	34.77	-25.01
				12	6	20.12	6.57	8.72	34.77	-26.05
				25	0	20.13	6.58	8.73	34.77	-26.04
	23825	713.5	64QAM	1	0	21.30	7.75	9.90	34.77	-24.87
				1	24	21.68	8.13	10.28	34.77	-24.49
				12	6	20.10	6.55	8.70	34.77	-26.07
				25	0	20.11	6.56	8.71	34.77	-26.06

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Antenna gain (dBi) -11.4

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	22.85	9.30	11.45	34.77	-23.32
				1	49	22.99	9.44	11.59	34.77	-23.18
				25	12	22.09	8.54	10.69	34.77	-24.08
				50	0	22.12	8.57	10.72	34.77	-24.05
	23790	710	QPSK	1	0	22.87	9.32	11.47	34.77	-23.3
				1	49	22.90	9.35	11.50	34.77	-23.27
				25	12	22.11	8.56	10.71	34.77	-24.06
				50	0	21.96	8.41	10.56	34.77	-24.21
	23800	711	QPSK	1	0	22.75	9.20	11.35	34.77	-23.42
				1	49	23.08	9.53	11.68	34.77	-23.09
				25	12	22.00	8.45	10.60	34.77	-24.17
				50	0	22.04	8.49	10.64	34.77	-24.13
	23780	709	16QAM	1	0	22.48	8.93	11.08	34.77	-23.69
				1	49	22.27	8.72	10.87	34.77	-23.9
				25	12	21.16	7.61	9.76	34.77	-25.01
				50	0	21.15	7.60	9.75	34.77	-25.02
	23790	710	16QAM	1	0	22.06	8.51	10.66	34.77	-24.11
				1	49	22.03	8.48	10.63	34.77	-24.14
				25	12	21.05	7.50	9.65	34.77	-25.12
				50	0	21.03	7.48	9.63	34.77	-25.14
	23800	711	16QAM	1	0	22.20	8.65	10.80	34.77	-23.97
				1	49	22.57	9.02	11.17	34.77	-23.6
				25	12	21.06	7.51	9.66	34.77	-25.11
				50	0	21.04	7.49	9.64	34.77	-25.13
	23780	709	64QAM	1	0	21.61	8.06	10.21	34.77	-24.56
				1	49	21.39	7.84	9.99	34.77	-24.78
				25	12	20.33	6.78	8.93	34.77	-25.84
				50	0	20.26	6.71	8.86	34.77	-25.91
	23790	710	64QAM	1	0	21.20	7.65	9.80	34.77	-24.97
				1	49	21.20	7.65	9.80	34.77	-24.97
				25	12	20.19	6.64	8.79	34.77	-25.98
				50	0	20.22	6.67	8.82	34.77	-25.95
	23800	711	64QAM	1	0	21.32	7.77	9.92	34.77	-24.85
				1	49	21.70	8.15	10.30	34.77	-24.47
				25	12	20.24	6.69	8.84	34.77	-25.93
				50	0	20.15	6.60	8.75	34.77	-26.02

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Antenna gain (dBi) -2.7

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	22.83	20.13	33	-12.87
				1	24	22.83	20.13	33	-12.87
				12	6	22.13	19.43	33	-13.57
				25	0	22.03	19.33	33	-13.67
	38000	2595	QPSK	1	0	22.93	20.23	33	-12.77
				1	24	22.88	20.18	33	-12.82
				12	6	22.01	19.31	33	-13.69
				25	0	22.18	19.48	33	-13.52
	38225	2617.5	QPSK	1	0	22.88	20.18	33	-12.82
				1	24	22.89	20.19	33	-12.81
				12	6	22.26	19.56	33	-13.44
				25	0	22.07	19.37	33	-13.63
	37775	2572.5	16QAM	1	0	22.38	19.68	33	-13.32
				1	24	22.08	19.38	33	-13.62
				12	6	21.09	18.39	33	-14.61
				25	0	21.17	18.47	33	-14.53
	38000	2595	16QAM	1	0	22.30	19.60	33	-13.4
				1	24	22.23	19.53	33	-13.47
				12	6	21.07	18.37	33	-14.63
				25	0	21.09	18.39	33	-14.61
	38225	2617.5	16QAM	1	0	22.33	19.63	33	-13.37
				1	24	22.14	19.44	33	-13.56
				12	6	21.01	18.31	33	-14.69
				25	0	21.08	18.38	33	-14.62
	37775	2572.5	64QAM	1	0	21.71	19.01	33	-13.99
				1	24	21.44	18.74	33	-14.26
				12	6	20.54	17.84	33	-15.16
				25	0	20.40	17.70	33	-15.3
	38000	2595	64QAM	1	0	21.63	18.93	33	-14.07
				1	24	21.51	18.81	33	-14.19
				12	6	20.48	17.78	33	-15.22
				25	0	20.44	17.74	33	-15.26
	38225	2617.5	64QAM	1	0	21.65	18.95	33	-14.05
				1	24	21.36	18.66	33	-14.34
				12	6	20.50	17.80	33	-15.2
				25	0	20.54	17.84	33	-15.16

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Antenna gain (dBi) -2.7

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	22.69	19.99	33	-13.01
				1	49	22.73	20.03	33	-12.97
				25	12	22.06	19.36	33	-13.64
				50	0	22.02	19.32	33	-13.68
	38000	2595	QPSK	1	0	22.75	20.05	33	-12.95
				1	49	22.93	20.23	33	-12.77
				25	12	22.03	19.33	33	-13.67
				50	0	22.08	19.38	33	-13.62
	38200	2615	QPSK	1	0	22.86	20.16	33	-12.84
				1	49	22.78	20.08	33	-12.92
				25	12	22.12	19.42	33	-13.58
				50	0	22.12	19.42	33	-13.58
	37800	2575	16QAM	1	0	22.20	19.50	33	-13.5
				1	49	22.15	19.45	33	-13.55
				25	12	21.25	18.55	33	-14.45
				50	0	21.05	18.35	33	-14.65
	38000	2595	16QAM	1	0	22.31	19.61	33	-13.39
				1	49	22.21	19.51	33	-13.49
				25	12	21.12	18.42	33	-14.58
				50	0	21.08	18.38	33	-14.62
	38200	2615	16QAM	1	0	22.26	19.56	33	-13.44
				1	49	22.17	19.47	33	-13.53
				25	12	21.01	18.31	33	-14.69
				50	0	21.09	18.39	33	-14.61
	37800	2575	64QAM	1	0	21.65	18.95	33	-14.05
				1	49	21.41	18.71	33	-14.29
				25	12	20.55	17.85	33	-15.15
				50	0	20.40	17.70	33	-15.3
	38000	2595	64QAM	1	0	21.66	18.96	33	-14.04
				1	49	21.46	18.76	33	-14.24
				25	12	20.46	17.76	33	-15.24
				50	0	20.38	17.68	33	-15.32
	38200	2615	64QAM	1	0	21.70	19.00	33	-14
				1	49	21.40	18.70	33	-14.3
				25	12	20.34	17.64	33	-15.36
				50	0	20.51	17.81	33	-15.19

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Antenna gain (dBi) -2.7

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	22.77	20.07	33	-12.93
				1	74	22.82	20.12	33	-12.88
				36	19	22.13	19.43	33	-13.57
				75	0	22.03	19.33	33	-13.67
	38000	2595	QPSK	1	0	22.73	20.03	33	-12.97
				1	74	22.81	20.11	33	-12.89
				36	19	22.07	19.37	33	-13.63
				75	0	22.06	19.36	33	-13.64
	38175	2612.5	QPSK	1	0	22.71	20.01	33	-12.99
				1	74	22.90	20.20	33	-12.8
				36	19	22.22	19.52	33	-13.48
				75	0	22.18	19.48	33	-13.52
	37825	2577.5	16QAM	1	0	22.39	19.69	33	-13.31
				1	74	22.12	19.42	33	-13.58
				36	19	21.26	18.56	33	-14.44
				75	0	21.00	18.30	33	-14.7
	38000	2595	16QAM	1	0	22.35	19.65	33	-13.35
				1	74	22.06	19.36	33	-13.64
				36	19	21.07	18.37	33	-14.63
				75	0	20.99	18.29	33	-14.71
	38175	2612.5	16QAM	1	0	22.36	19.66	33	-13.34
				1	74	22.04	19.34	33	-13.66
				36	19	21.05	18.35	33	-14.65
				75	0	21.02	18.32	33	-14.68
	37825	2577.5	64QAM	1	0	21.66	18.96	33	-14.04
				1	74	21.52	18.82	33	-14.18
				36	19	20.60	17.90	33	-15.1
				75	0	20.47	17.77	33	-15.23
	38000	2595	64QAM	1	0	21.57	18.87	33	-14.13
				1	74	21.60	18.90	33	-14.1
				36	19	20.50	17.80	33	-15.2
				75	0	20.44	17.74	33	-15.26
	38175	2612.5	64QAM	1	0	21.69	18.99	33	-14.01
				1	74	21.34	18.64	33	-14.36
				36	19	20.49	17.79	33	-15.21
				75	0	20.45	17.75	33	-15.25

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Antenna gain (dBi) -2.7

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	22.84	20.14	33	-12.86
				1	99	22.89	20.19	33	-12.81
				50	25	22.14	19.44	33	-13.56
				100	0	22.14	19.44	33	-13.56
	38000	2595	QPSK	1	0	22.93	20.23	33	-12.77
				1	99	22.93	20.23	33	-12.77
				50	25	22.14	19.44	33	-13.56
				100	0	22.20	19.50	33	-13.5
	38150	2610	QPSK	1	0	22.90	20.20	33	-12.8
				1	99	22.97	20.27	33	-12.73
				50	25	22.30	19.60	33	-13.4
				100	0	22.22	19.52	33	-13.48
	37850	2580	16QAM	1	0	22.39	19.69	33	-13.31
				1	99	22.18	19.48	33	-13.52
				50	25	21.26	18.56	33	-14.44
				100	0	21.17	18.47	33	-14.53
	38000	2595	16QAM	1	0	22.39	19.69	33	-13.31
				1	99	22.26	19.56	33	-13.44
				50	25	21.26	18.56	33	-14.44
				100	0	21.14	18.44	33	-14.56
	38150	2610	16QAM	1	0	22.38	19.68	33	-13.32
				1	99	22.17	19.47	33	-13.53
				50	25	21.17	18.47	33	-14.53
				100	0	21.16	18.46	33	-14.54
	37850	2580	64QAM	1	0	21.75	19.05	33	-13.95
				1	99	21.56	18.86	33	-14.14
				50	25	20.63	17.93	33	-15.07
				100	0	20.55	17.85	33	-15.15
	38000	2595	64QAM	1	0	21.70	19.00	33	-14
				1	99	21.61	18.91	33	-14.09
				50	25	20.62	17.92	33	-15.08
				100	0	20.47	17.77	33	-15.23
	38150	2610	64QAM	1	0	21.77	19.07	33	-13.93
				1	99	21.49	18.79	33	-14.21
				50	25	20.52	17.82	33	-15.18
				100	0	20.54	17.84	33	-15.16

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Antenna gain (dBi) -2.7

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	22.99	20.29	33	-12.71
				1	24	22.87	20.17	33	-12.83
				12	6	22.29	19.59	33	-13.41
				25	0	22.18	19.48	33	-13.52
	40620	2593	QPSK	1	0	24.39	21.69	33	-11.31
				1	24	24.32	21.62	33	-11.38
				12	6	23.38	20.68	33	-12.32
				25	0	23.39	20.69	33	-12.31
	41565	2687.5	QPSK	1	0	24.00	21.30	33	-11.7
				1	24	24.05	21.35	33	-11.65
				12	6	22.70	20.00	33	-13
				25	0	23.19	20.49	33	-12.51
	39675	2498.5	16QAM	1	0	22.35	19.65	33	-13.35
				1	24	22.34	19.64	33	-13.36
				12	6	21.42	18.72	33	-14.28
				25	0	21.26	18.56	33	-14.44
	40620	2593	16QAM	1	0	23.38	20.68	33	-12.32
				1	24	23.12	20.42	33	-12.58
				12	6	22.32	19.62	33	-13.38
				25	0	22.40	19.70	33	-13.3
	41565	2687.5	16QAM	1	0	23.35	20.65	33	-12.35
				1	24	23.06	20.36	33	-12.64
				12	6	22.36	19.66	33	-13.34
				25	0	22.13	19.43	33	-13.57
	39675	2498.5	64QAM	1	0	20.48	17.78	33	-15.22
				1	24	21.29	18.59	33	-14.41
				12	6	20.42	17.72	33	-15.28
				25	0	20.53	17.83	33	-15.17
	40620	2593	64QAM	1	0	22.40	19.70	33	-13.3
				1	24	22.28	19.58	33	-13.42
				12	6	21.36	18.66	33	-14.34
				25	0	21.28	18.58	33	-14.42
	41565	2687.5	64QAM	1	0	22.44	19.74	33	-13.26
				1	24	22.27	19.57	33	-13.43
				12	6	21.40	18.70	33	-14.3
				25	0	21.26	18.56	33	-14.44

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Antenna gain (dBi) -2.7

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	22.95	20.25	33	-12.75
				1	49	22.98	20.28	33	-12.72
				25	12	22.34	19.64	33	-13.36
				50	0	22.19	19.49	33	-13.51
	40620	2593	QPSK	1	0	24.36	21.66	33	-11.34
				1	49	24.25	21.55	33	-11.45
				25	12	23.29	20.59	33	-12.41
				50	0	23.34	20.64	33	-12.36
	41540	2685	QPSK	1	0	23.82	21.12	33	-11.88
				1	49	23.96	21.26	33	-11.74
				25	12	22.59	19.89	33	-13.11
				50	0	23.27	20.57	33	-12.43
	39700	2501	16QAM	1	0	22.48	19.78	33	-13.22
				1	49	22.20	19.50	33	-13.5
				25	12	21.26	18.56	33	-14.44
				50	0	21.26	18.56	33	-14.44
	40620	2593	16QAM	1	0	23.33	20.63	33	-12.37
				1	49	23.19	20.49	33	-12.51
				25	12	22.29	19.59	33	-13.41
				50	0	22.30	19.60	33	-13.4
	41540	2685	16QAM	1	0	23.36	20.66	33	-12.34
				1	49	23.09	20.39	33	-12.61
				25	12	22.39	19.69	33	-13.31
				50	0	22.09	19.39	33	-13.61
	39700	2501	64QAM	1	0	21.46	18.76	33	-14.24
				1	49	21.30	18.60	33	-14.4
				25	12	20.47	17.77	33	-15.23
				50	0	20.45	17.75	33	-15.25
	40620	2593	64QAM	1	0	22.32	19.62	33	-13.38
				1	49	22.30	19.60	33	-13.4
				25	12	21.30	18.60	33	-14.4
				50	0	21.32	18.62	33	-14.38
	41540	2685	64QAM	1	0	22.38	19.68	33	-13.32
				1	49	22.14	19.44	33	-13.56
				25	12	21.43	18.73	33	-14.27
				50	0	21.25	18.55	33	-14.45

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Antenna gain (dBi) -2.7

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	22.90	20.20	33	-12.8
				1	74	22.92	20.22	33	-12.78
				36	18	22.20	19.50	33	-13.5
				75	0	22.11	19.41	33	-13.59
	40620	2593	QPSK	1	0	24.25	21.55	33	-11.45
				1	74	24.29	21.59	33	-11.41
				36	18	23.33	20.63	33	-12.37
				75	0	23.28	20.58	33	-12.42
	41515	2682.5	QPSK	1	0	23.93	21.23	33	-11.77
				1	74	24.13	21.43	33	-11.57
				36	18	22.64	19.94	33	-13.06
				75	0	23.16	20.46	33	-12.54
	39725	2503.5	16QAM	1	0	22.40	19.70	33	-13.3
				1	74	22.23	19.53	33	-13.47
				36	18	21.34	18.64	33	-14.36
				75	0	21.25	18.55	33	-14.45
	40620	2593	16QAM	1	0	23.36	20.66	33	-12.34
				1	74	23.04	20.34	33	-12.66
				36	18	22.35	19.65	33	-13.35
				75	0	22.40	19.70	33	-13.3
	41515	2682.5	16QAM	1	0	23.41	20.71	33	-12.29
				1	74	23.21	20.51	33	-12.49
				36	18	22.25	19.55	33	-13.45
				75	0	22.11	19.41	33	-13.59
	39725	2503.5	64QAM	1	0	21.52	18.82	33	-14.18
				1	74	21.24	18.54	33	-14.46
				36	18	20.46	17.76	33	-15.24
				75	0	20.51	17.81	33	-15.19
	40620	2593	64QAM	1	0	22.33	19.63	33	-13.37
				1	74	22.40	19.70	33	-13.3
				36	18	21.23	18.53	33	-14.47
				75	0	21.38	18.68	33	-14.32
	41515	2682.5	64QAM	1	0	22.34	19.64	33	-13.36
				1	74	22.14	19.44	33	-13.56
				36	18	21.37	18.67	33	-14.33
				75	0	21.30	18.60	33	-14.4

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20	39750	2506	QPSK	1	0	23.08	20.38	33	-12.62
				1	99	23.04	20.34	33	-12.66
				50	25	22.38	19.68	33	-13.32
				100	0	22.29	19.59	33	-13.41
	40620	2593	QPSK	1	0	24.43	21.73	33	-11.27
				1	99	24.40	21.70	33	-11.3
				50	25	23.40	20.70	33	-12.3
				100	0	23.39	20.69	33	-12.31
	41490	2680	QPSK	1	0	24.01	21.31	33	-11.69
				1	99	24.15	21.45	33	-11.55
				50	25	22.70	20.00	33	-13
				100	0	23.30	20.60	33	-12.4
	39750	2506	16QAM	1	0	22.51	19.81	33	-13.19
				1	99	22.36	19.66	33	-13.34
				50	25	21.42	18.72	33	-14.28
				100	0	21.41	18.71	33	-14.29
	40620	2593	16QAM	1	0	23.45	20.75	33	-12.25
				1	99	23.22	20.52	33	-12.48
				50	25	22.41	19.71	33	-13.29
				100	0	22.47	19.77	33	-13.23
	41490	2680	16QAM	1	0	23.45	20.75	33	-12.25
				1	99	23.25	20.55	33	-12.45
				50	25	22.40	19.70	33	-13.3
				100	0	22.29	19.59	33	-13.41
	39750	2506	64QAM	1	0	21.64	18.94	33	-14.06
				1	99	21.43	18.73	33	-14.27
				50	25	20.55	17.85	33	-15.15
				100	0	20.53	17.83	33	-15.17
	40620	2593	64QAM	1	0	22.42	19.72	33	-13.28
				1	99	22.42	19.72	33	-13.28
				50	25	21.38	18.68	33	-14.32
				100	0	21.42	18.72	33	-14.28
	41490	2680	64QAM	1	0	22.45	19.75	33	-13.25
				1	99	22.28	19.58	33	-13.42
				50	25	21.48	18.78	33	-14.22
				100	0	21.33	18.63	33	-14.37

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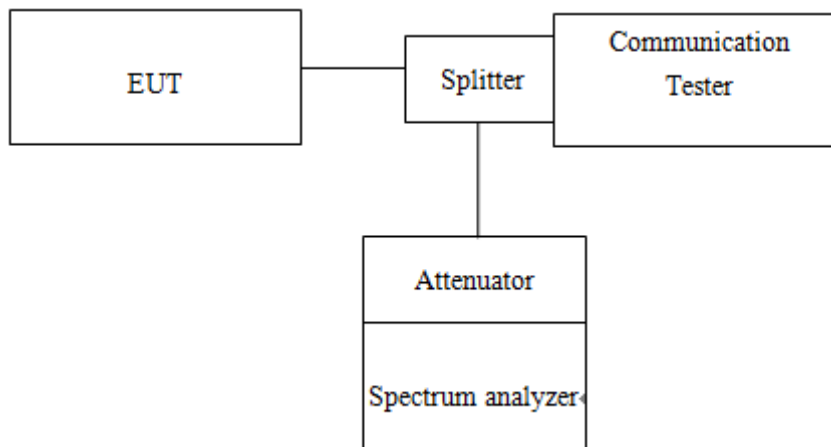
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7. OCCUPIED BANDWIDTH MEASUREMENT

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

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8820C	6200995019	04/01/2019	03/31/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/10/2019	12/09/2020
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2019	05/16/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/13/2019	02/12/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

7.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		GSM 850	GPRS 850	GPRS 850	GPRS 850
824.2	128	0.24110	0.24791	0.320	0.312
836.6	190	0.24883	0.23933	0.311	0.310
848.8	251	0.24228	0.24146	0.308	0.307

Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		GSM 1900	GPRS 1900	GSM 1900	GPRS 1900
1850.2	512	0.24405	0.24241	0.313	0.316
1880.0	661	0.24940	0.24603	0.316	0.317
1909.8	810	0.24437	0.23776	0.309	0.313

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Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.14560	4.14050	4.13980	4.711	4.702	4.698
1880.00	9400	4.15690	4.14630	4.12860	4.699	4.683	4.694
1907.60	9538	4.13340	4.15410	4.14950	4.693	4.681	4.688

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.13850	4.15370	4.15000	4.695	4.706	4.697
1732.60	1413	4.13620	4.16190	4.13930	4.693	4.692	4.706
1752.60	1513	4.14170	4.13490	4.14180	4.700	4.702	4.678

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.13370	4.13530	4.13720	4.687	4.688	4.695
836.60	4183	4.14890	4.14960	4.13620	4.696	4.682	4.682
846.60	4233	4.15300	4.14130	4.15030	4.681	4.678	4.708

LTE BAND 2 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	18607	1.0954	1.1005	1.0927	1.237	1.251	1.234
1880.0	18900	1.0976	1.1003	1.0970	1.243	1.248	1.232
1909.3	19193	1.0952	1.1003	1.0965	1.237	1.246	1.229

LTE BAND 2 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	18615	2.7032	2.7061	2.7064	2.975	3.007	3.023
1880.0	18900	2.7001	2.7052	2.7023	2.994	3.003	3.008
1908.5	19185	2.6996	2.7049	2.7033	2.990	3.007	3.006

LTE BAND 2 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	18625	4.5034	4.5070	4.4969	4.959	4.979	4.974
1880.0	18900	4.5156	4.5045	4.5035	5.006	4.965	4.959
1907.5	19175	4.5129	4.5070	4.4903	4.968	5.000	4.932

LTE BAND 2 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	18650	8.9889	8.9681	8.9726	9.810	9.754	9.833
1880.0	18900	8.9847	8.9821	8.9696	9.807	9.790	9.780
1905.0	19150	9.0091	8.9523	8.9697	9.761	9.688	9.810

LTE BAND 2 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	18675	13.453	13.448	13.446	14.650	14.672	14.647
1880.0	18900	13.459	13.463	13.475	15.709	15.608	14.630
1902.5	19125	13.483	13.471	13.452	16.386	14.667	14.980

LTE BAND 2 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	18700	17.923	17.959	17.902	21.574	21.356	19.663
1880.0	18900	17.944	17.974	17.932	19.476	20.333	19.456
1900.0	19100	17.950	17.951	17.952	20.687	19.548	19.471

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LTE BAND 4 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	19957	1.0953	1.0990	1.0965	1.243	1.244	1.240
1732.5	20175	1.0977	1.0963	1.1000	1.240	1.245	1.252
1754.3	20393	1.0927	1.0940	1.0987	1.235	1.240	1.236

LTE BAND 4 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	19965	2.7023	2.7017	2.7076	3.000	3.015	3.005
1732.5	20175	2.6980	2.7055	2.7050	3.000	3.002	2.993
1753.5	20385	2.7000	2.6990	2.7025	3.004	3.002	3.021

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19957	4.5063	4.5004	4.5049	5.014	4.975	4.972
1732.5	20175	4.5087	4.5052	4.5071	5.006	4.961	4.960
1752.5	20375	4.5166	4.5045	4.5125	5.011	4.986	4.960

LTE BAND 4 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	20000	8.9926	8.9635	8.9717	9.774	9.764	9.776
1732.5	20175	8.9927	8.9836	8.9689	9.799	9.741	9.806
1750.0	20350	8.9956	8.9721	8.9668	9.799	9.778	9.773

LTE BAND 4 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	20025	13.459	13.461	13.449	14.667	16.544	14.664
1732.5	20175	13.474	13.463	13.447	14.641	14.618	16.990
1747.5	20325	13.468	13.441	13.445	14.670	14.610	16.836

LTE BAND 4 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	20050	17.959	17.943	17.936	19.422	20.543	20.560
1732.5	20175	17.943	17.932	17.921	19.362	19.481	21.209
1745.0	20300	17.906	17.915	17.879	19.860	19.448	19.567

LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.0962	1.0991	1.0953	1.242	1.245	1.236
836.5	20525	1.0975	1.0990	1.0955	1.241	1.251	1.242
848.3	20643	1.0971	1.0986	1.0928	1.236	1.233	1.241

LTE BAND 5 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	20415	2.7039	2.7014	2.6975	3.009	2.996	3.006
836.5	20525	2.7015	2.7012	2.7062	3.009	3.021	3.007
847.5	20635	2.7015	2.7009	2.7012	3.007	3.003	2.988

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	4.5014	4.4884	4.5137	4.987	4.956	4.984
836.5	20525	4.5141	4.5001	4.5035	4.986	4.949	4.957
846.5	20625	4.5164	4.5070	4.5155	4.996	4.964	4.979

LTE BAND 5 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	20450	8.9922	8.9884	8.9727	9.792	9.759	9.776
836.5	20525	8.9792	8.9663	8.9680	9.803	9.800	9.781
844.0	20600	9.0116	8.9736	8.9873	9.757	9.812	9.787

LTE BAND 7 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2502.5	20775	4.5038	4.5023	4.5005	4.965	4.954	4.953
2535.0	21100	4.4992	4.5002	4.4974	4.970	4.966	4.973
2567.5	21425	4.5021	4.5081	4.4942	4.963	4.950	4.958

LTE BAND 7 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2505.0	20800	9.0113	8.9623	8.9770	9.883	9.720	9.765
2535.0	21100	9.0029	8.9405	8.9734	9.855	9.753	9.745
2565.0	21400	8.9966	8.9640	8.9670	9.773	9.697	9.838

LTE BAND 7 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2507.5	20825	13.453	13.441	13.442	14.645	14.628	14.626
2535.0	21100	13.449	13.479	13.439	14.637	14.635	14.721
2562.5	21375	13.475	13.463	13.457	14.647	14.802	14.750

LTE BAND 7 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2510.0	20850	17.911	17.946	17.896	19.391	19.441	19.423
2535.0	21100	17.931	17.955	17.931	19.293	19.444	19.519
2560.0	21350	17.944	17.952	17.938	19.488	21.579	19.417

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LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
699.7	23017	1.1043	1.0959	1.1018	1.210	1.193	1.228
707.5	23095	1.0905	1.0961	1.0932	1.213	1.211	1.221
715.3	23173	1.1103	1.0961	1.0891	1.239	1.186	1.209

LTE BAND 12 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
700.5	23025	2.6567	2.6775	2.6945	2.884	2.881	2.927
707.5	23095	2.6995	2.6910	2.7041	2.984	2.956	2.991
714.5	23165	2.6982	2.6991	2.6912	3.007	3.011	2.872

LTE BAND 12 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
701.5	23035	4.4889	4.4652	4.4761	4.800	4.811	4.773
707.5	23095	4.4773	4.4724	4.4768	4.832	4.810	4.831
713.5	23155	4.4513	4.4964	4.4999	4.758	4.989	4.954

LTE BAND 12 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
704.0	23060	8.9242	8.8975	8.8862	12.917	9.455	9.416
707.5	23095	8.9401	8.9553	8.9645	11.800	9.762	11.824
711.0	23130	8.9534	8.9193	8.9717	9.516	9.770	9.785

LTE BAND 13 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
779.5	23205	4.4878	4.4471	4.4553	4.969	4.727	4.734
782.0	23230	4.4979	4.5031	4.5190	4.969	4.985	4.965
784.5	23255	4.5072	4.4984	4.5099	4.988	4.992	4.986

LTE BAND 13 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
782.0	23230	8.949	8.885	8.832	9.368	10.649	9.372

LTE BAND 17 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
706.5	23755	4.4960	4.5035	4.5116	4.973	4.970	4.980
710.0	23790	4.5010	4.5088	4.5102	4.992	4.947	4.981
713.5	23825	4.5027	4.5033	4.5088	4.986	4.958	4.972

LTE BAND 17 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
709.0	23780	8.9939	8.9637	8.9761	9.796	9.788	9.777
710.0	23790	8.9967	8.9502	8.9756	9.778	9.722	9.781
711.0	23800	8.9823	8.9481	8.9551	9.806	9.783	9.768

LTE BAND 38 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2572.5	37775	4.4998	4.5028	4.5115	4.947	4.931	4.907
2595.0	38000	4.5075	4.5020	4.5052	4.953	4.959	4.908
2617.5	38225	4.5093	4.5044	4.5084	4.992	4.954	4.933

LTE BAND 38 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2575.0	37800	8.9686	8.9722	8.9646	9.746	9.692	9.737
2595.0	38000	8.9724	8.9670	8.9710	9.783	9.763	9.778
2615.0	38200	8.9765	8.9689	8.9894	9.748	9.670	9.806

LTE BAND 38 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2577.5	37825	13.472	13.477	13.440	14.650	14.633	14.632
2595.0	38000	13.461	13.475	13.424	14.588	14.661	14.710
2612.5	38175	13.472	13.471	13.464	14.519	14.554	14.665

LTE BAND 38 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2580.0	37850	17.902	17.929	17.915	19.393	19.446	19.555
2595.0	38000	17.886	17.858	17.880	19.346	19.441	19.359
2610.0	38150	17.918	17.878	17.905	19.350	19.477	19.226

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LTE BAND 41 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2498.5	39675	4.5007	4.5066	4.5042	4.919	4.972	4.947
2593.0	40620	4.5028	4.5066	4.5027	4.965	5.005	4.959
2687.5	41565	4.5038	4.5024	4.5036	4.986	4.992	4.955

LTE BAND 41 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2501.0	39700	8.9895	8.9572	8.9720	9.799	9.779	9.814
2593.0	40620	8.9595	8.9739	8.9773	9.642	9.709	9.750
2685.0	41540	8.9690	8.9807	8.9696	9.740	9.746	9.823

LTE BAND 41 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2503.5	39725	13.509	13.441	13.449	14.540	14.517	14.682
2593.0	40620	13.466	13.486	13.457	14.580	14.658	14.526
2682.5	41515	13.483	13.455	13.462	14.575	14.650	14.577

LTE BAND 41 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2506.0	39750	17.914	17.888	17.862	19.505	19.339	19.256
2593.0	40620	17.920	17.871	17.864	19.496	19.475	19.464
2680.0	41490	17.915	17.838	17.884	19.370	19.350	19.321

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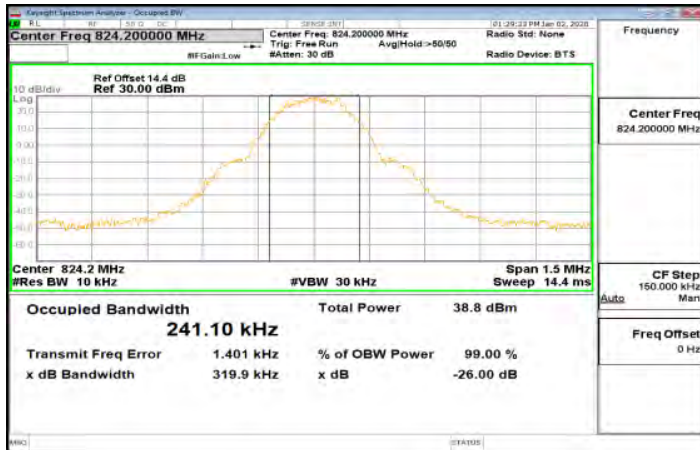
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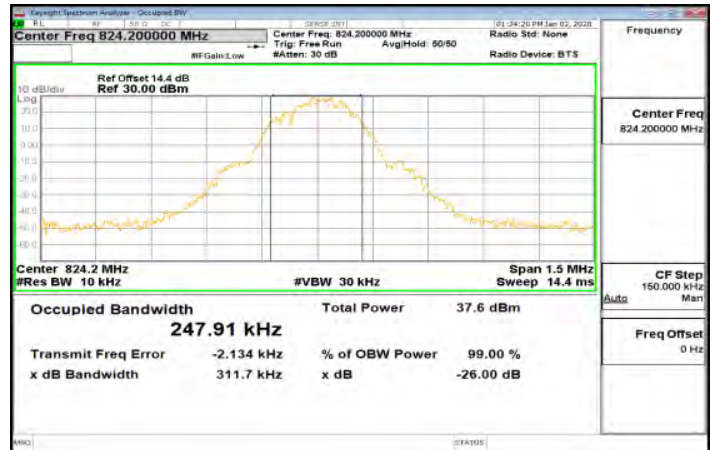
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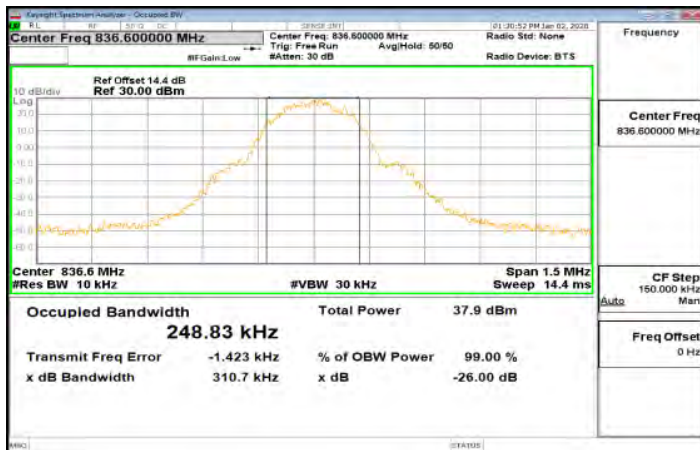
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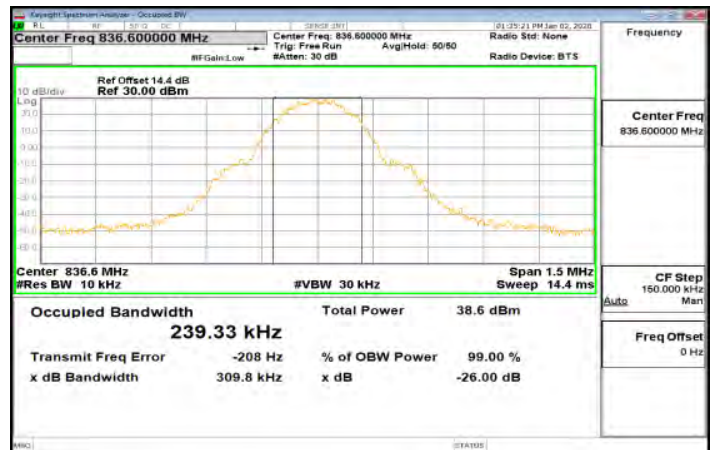
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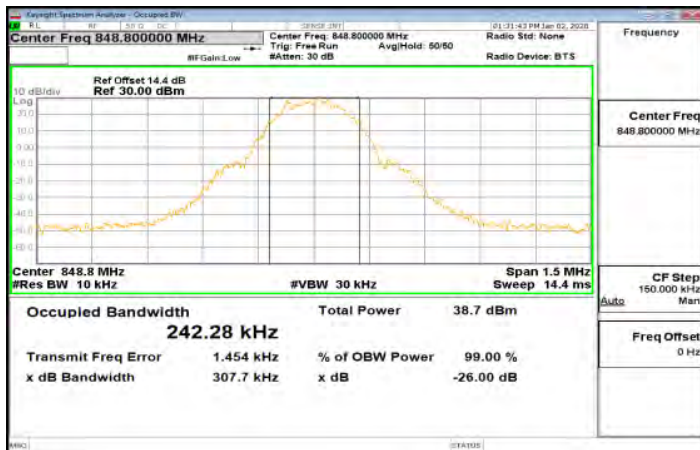
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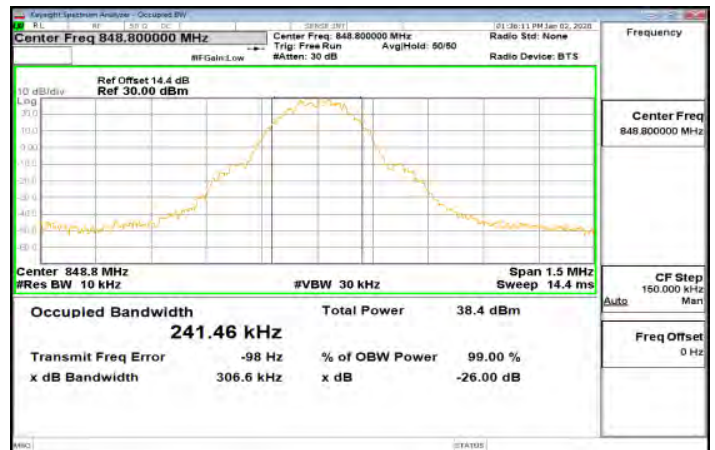
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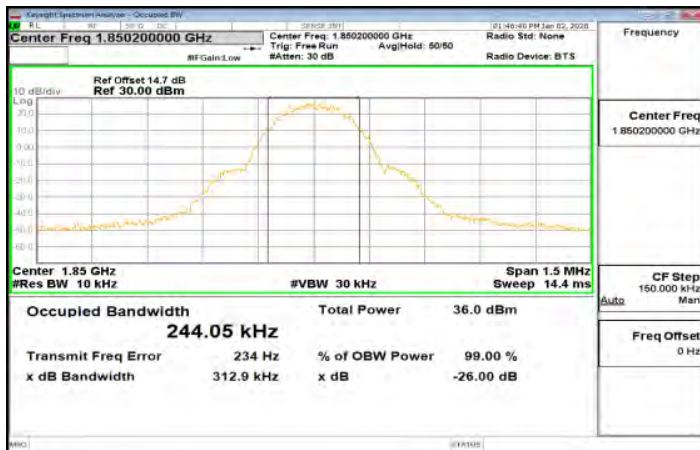


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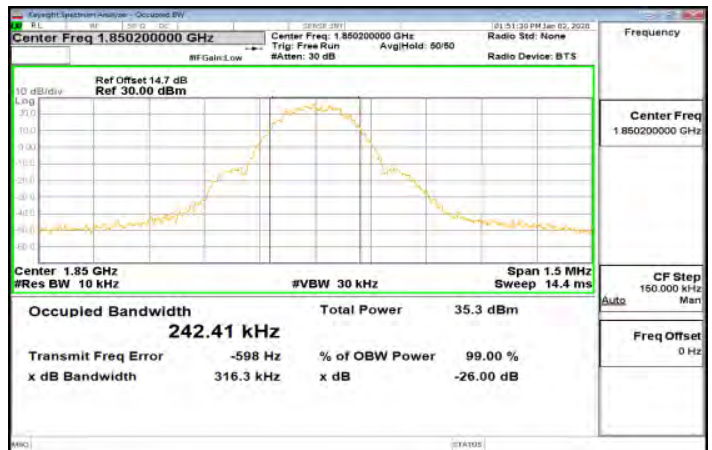
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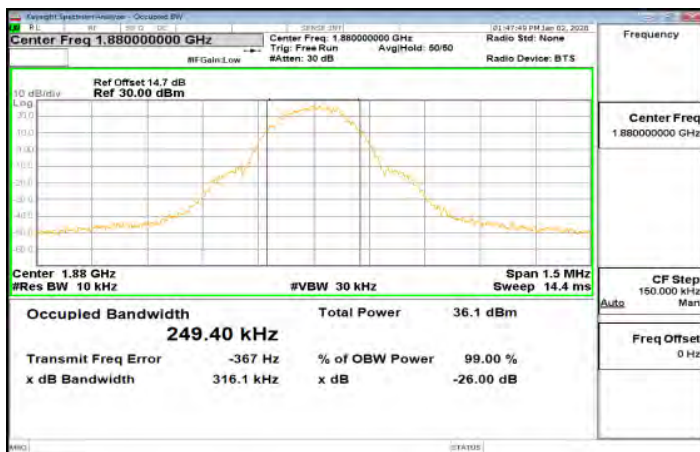
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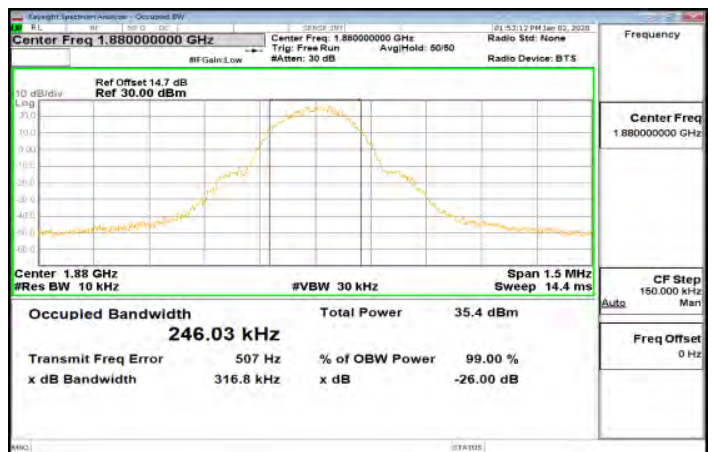
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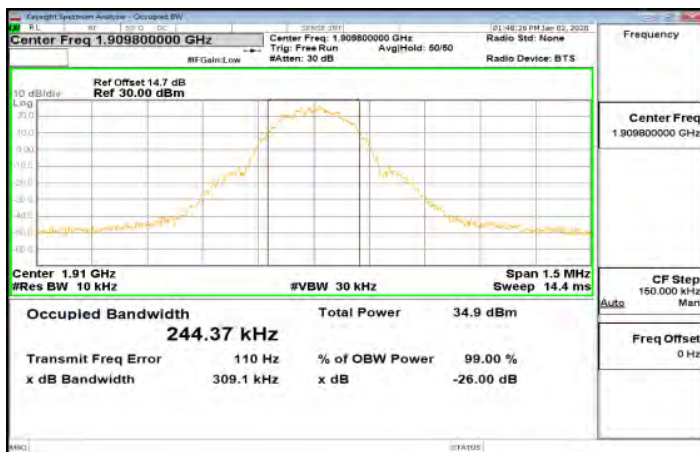
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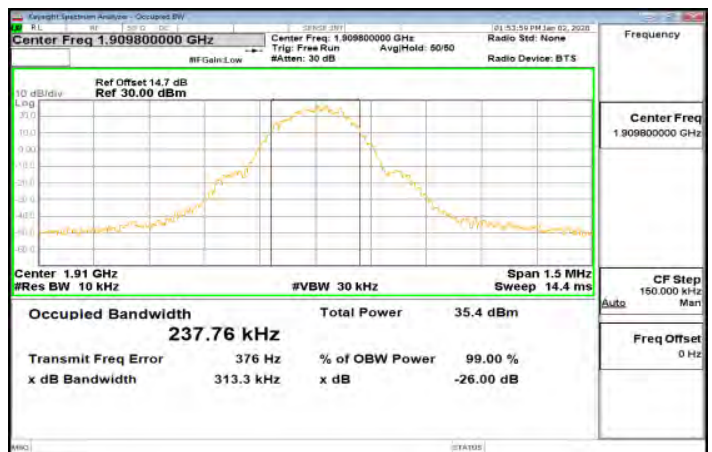
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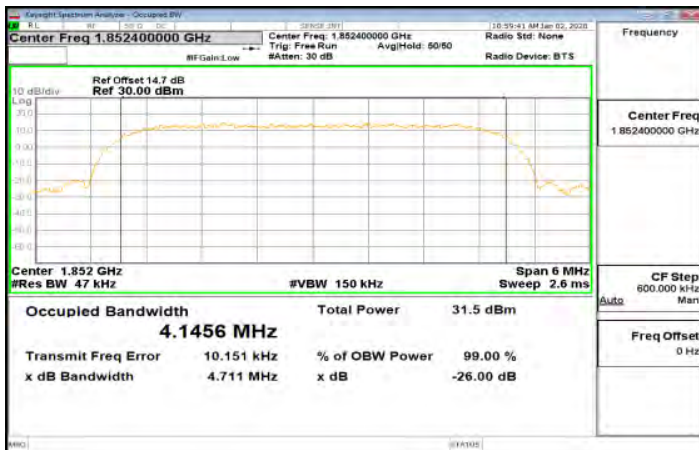


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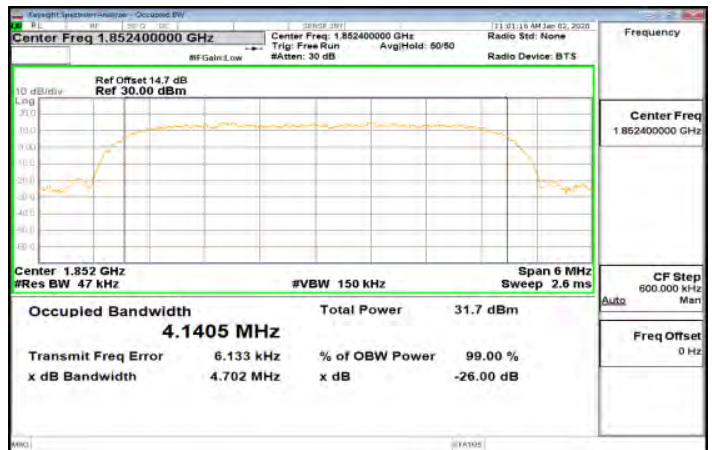
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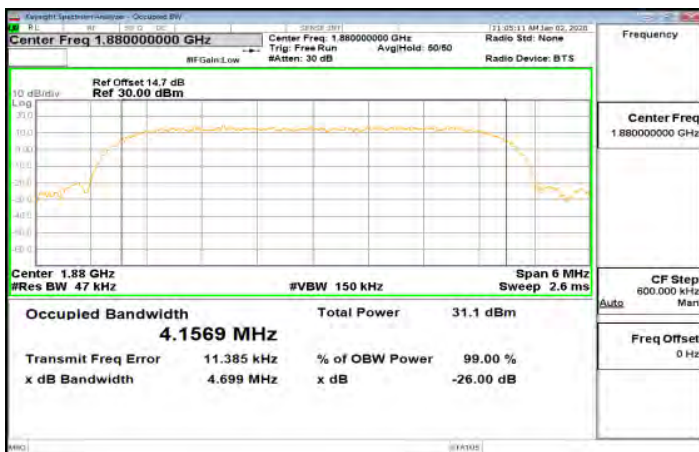
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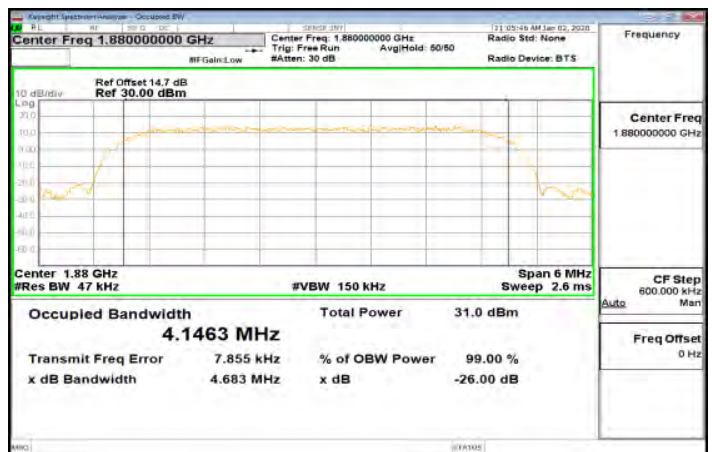
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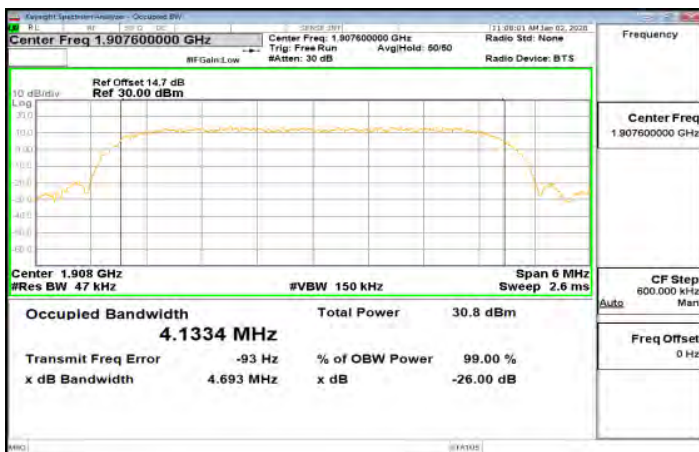
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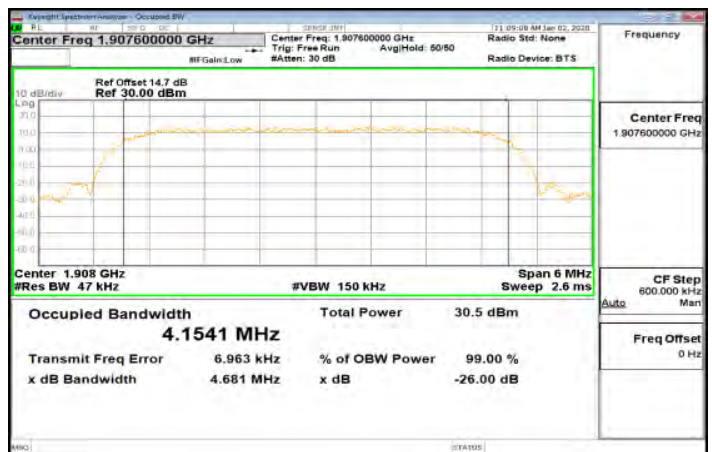
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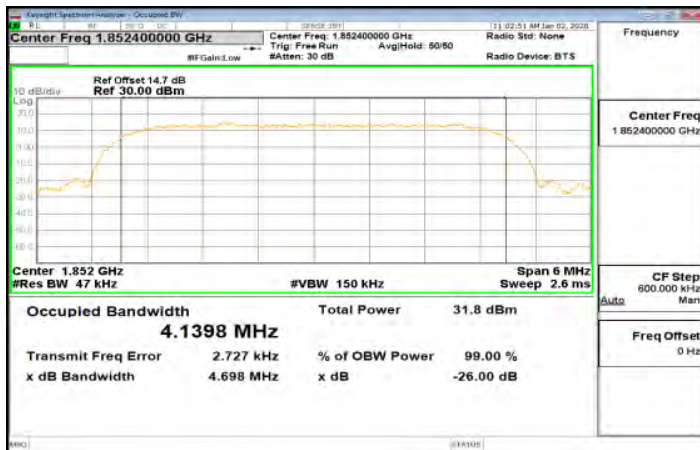


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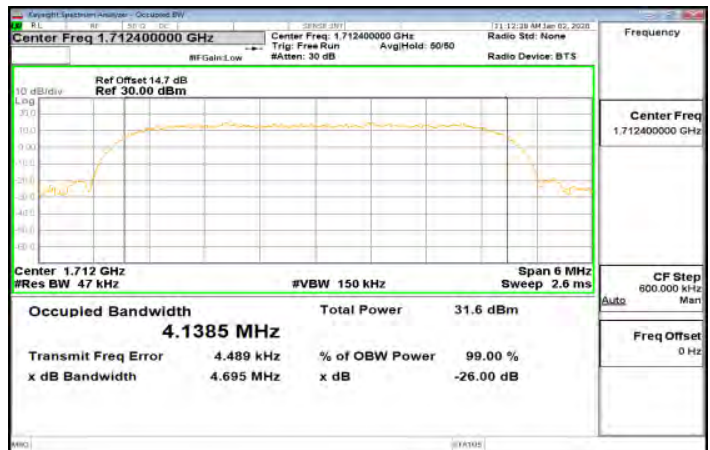
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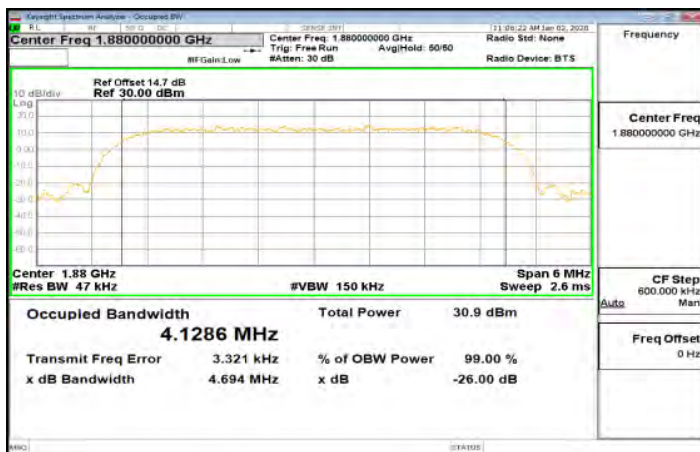
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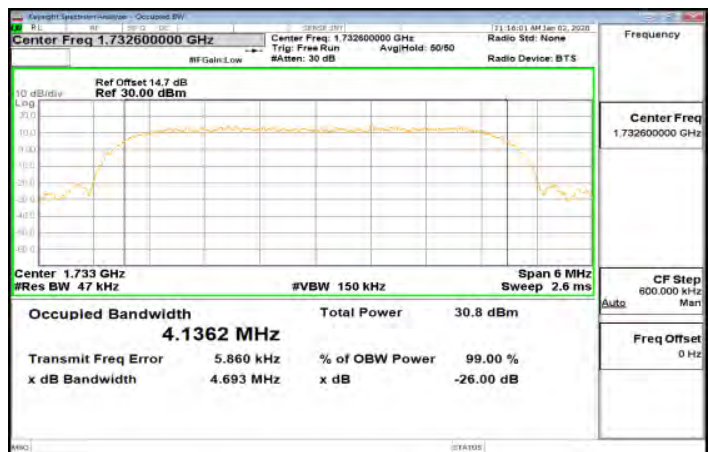
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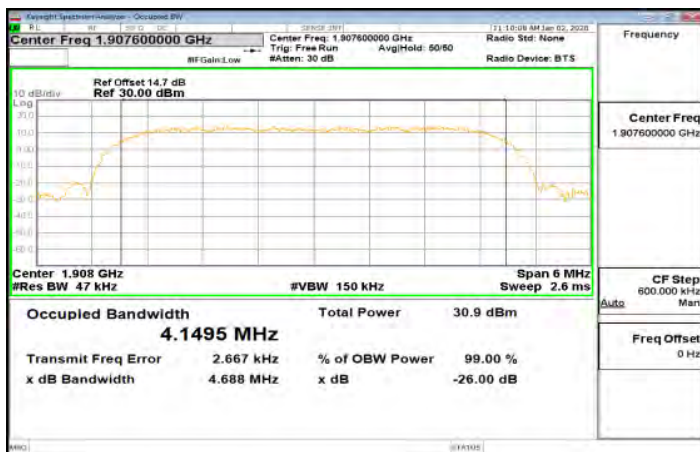
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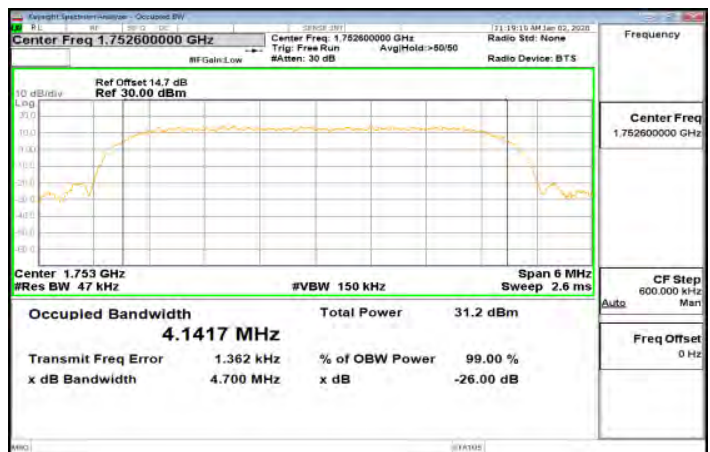
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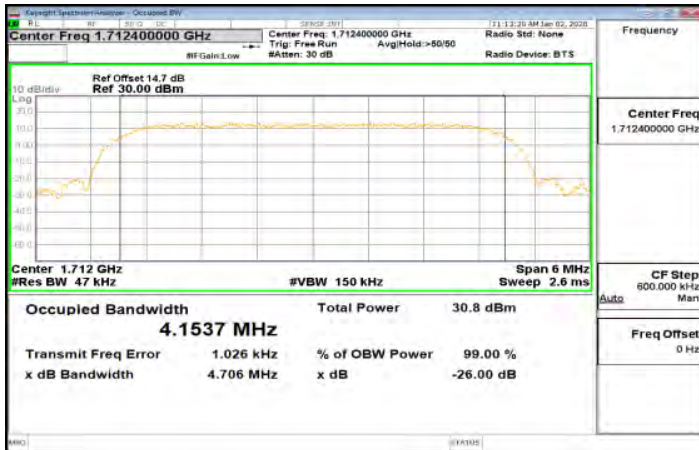


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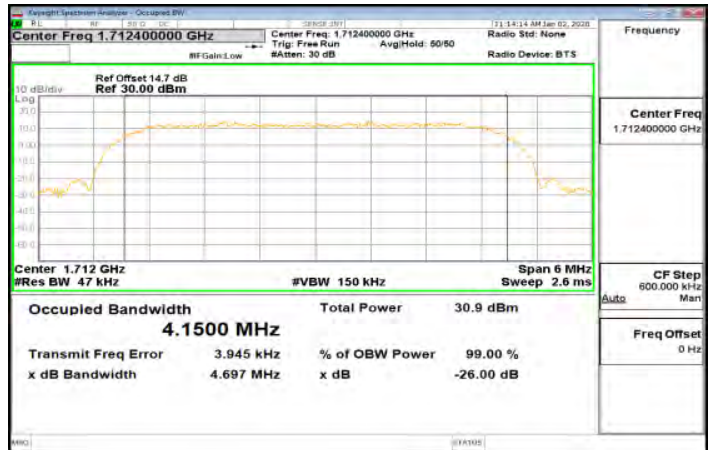
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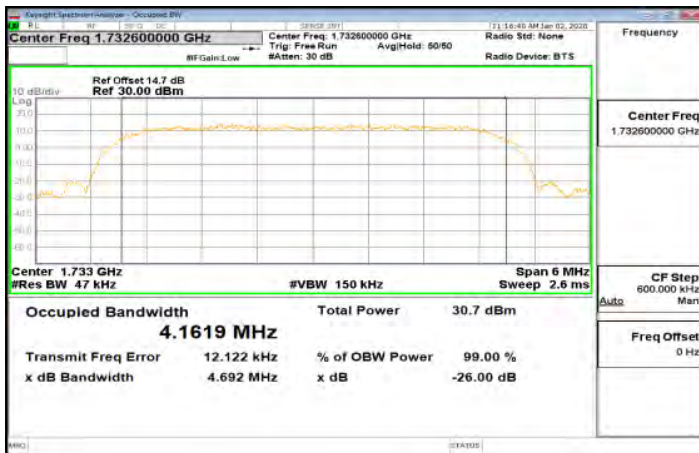
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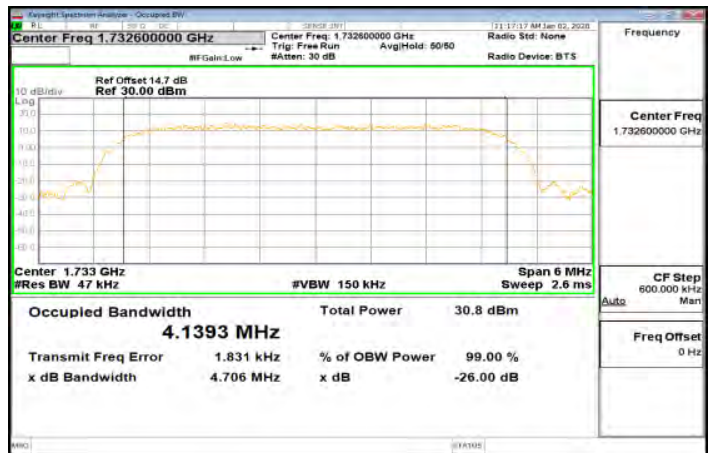
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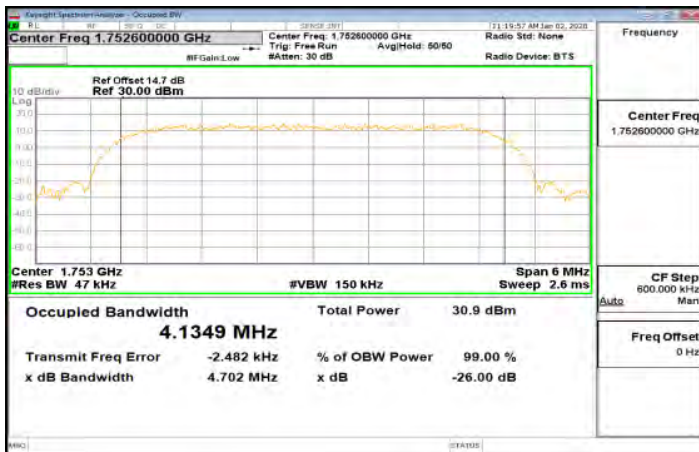
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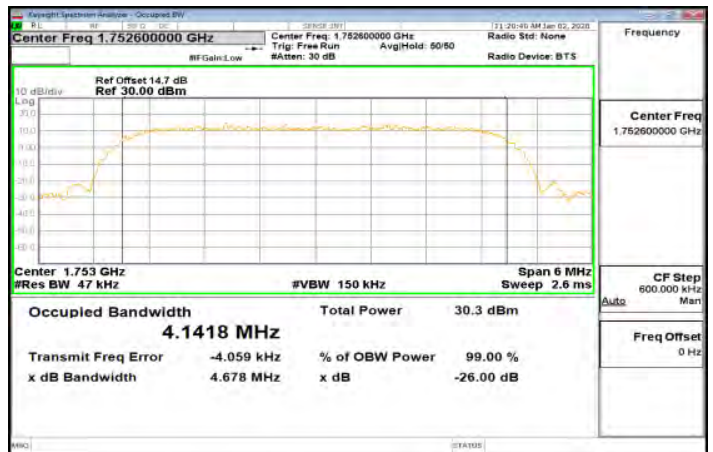
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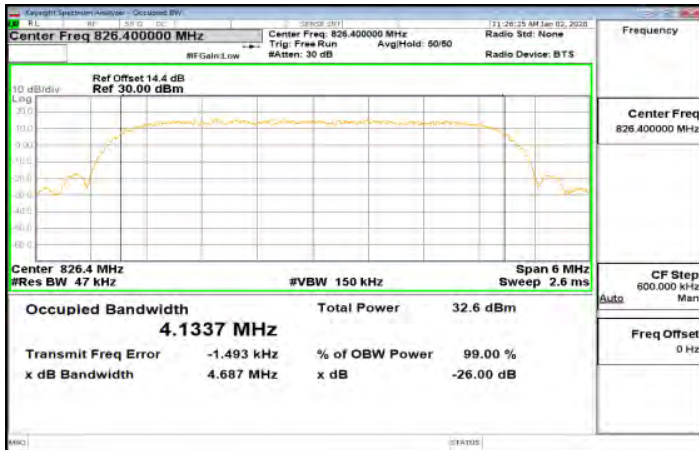


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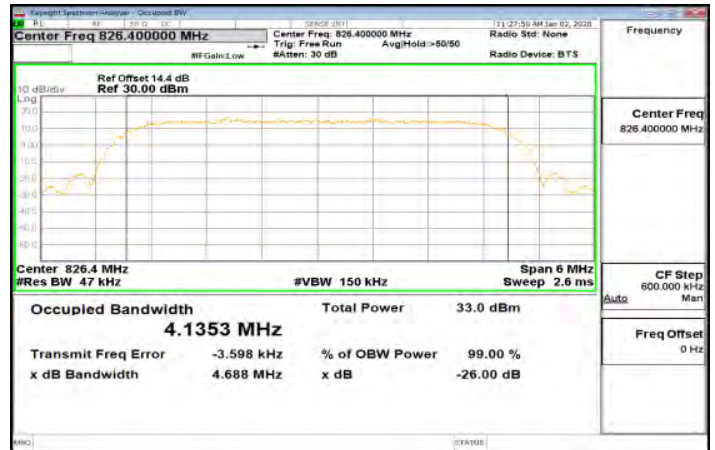
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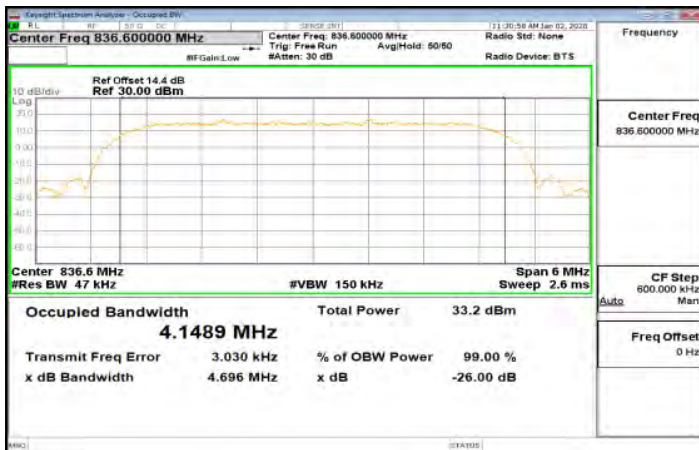
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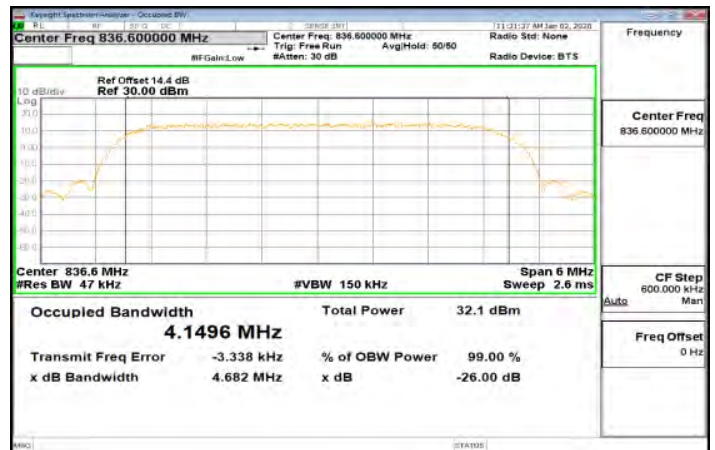
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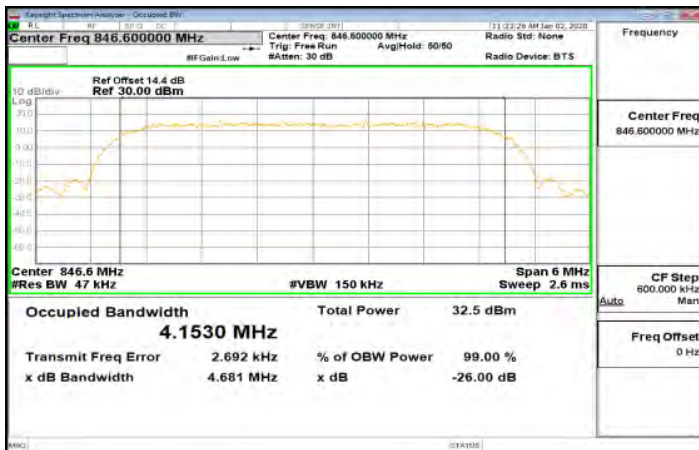
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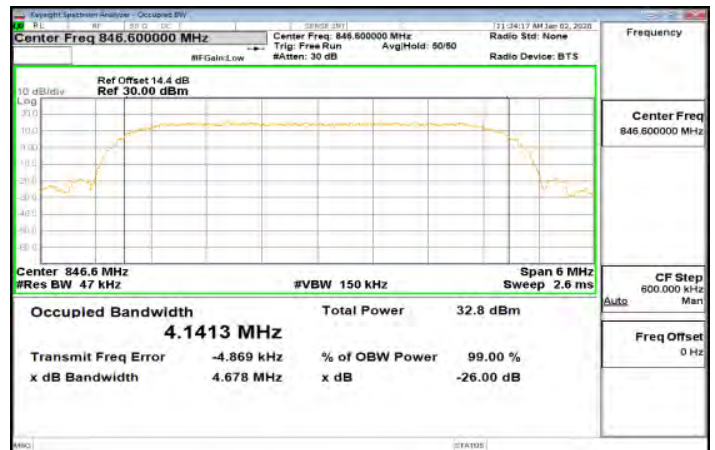
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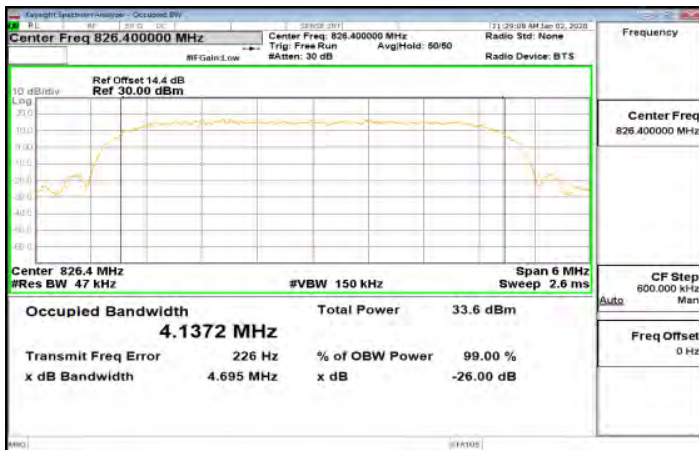


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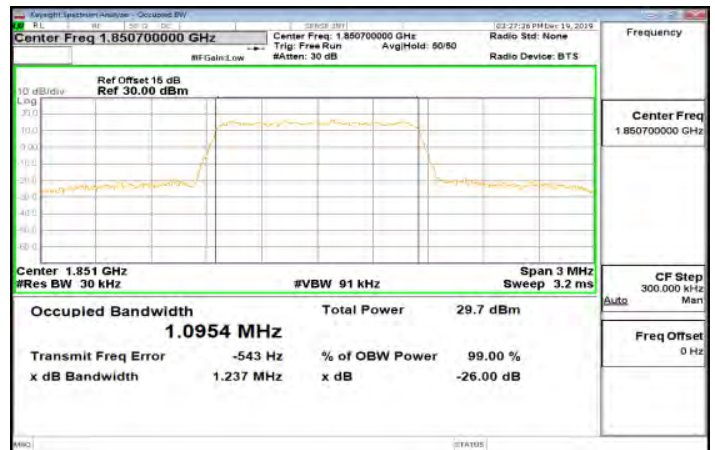
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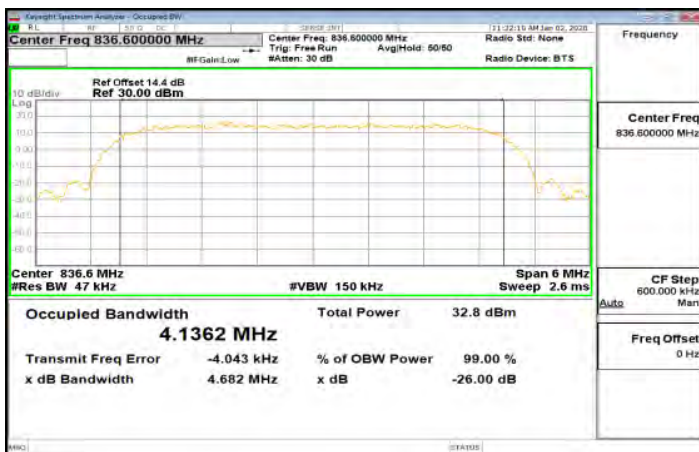
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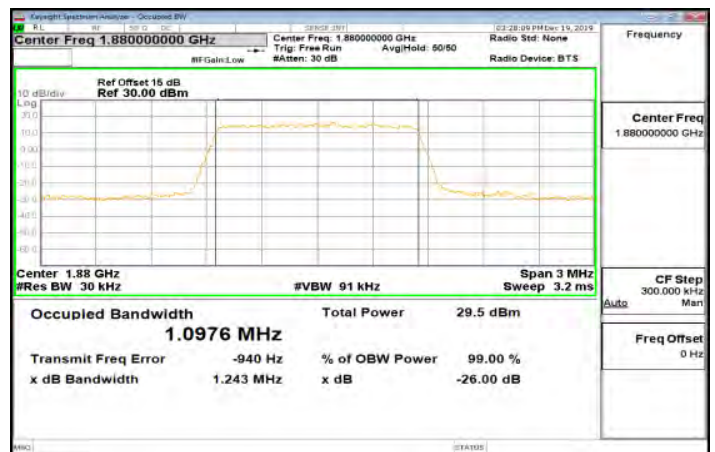
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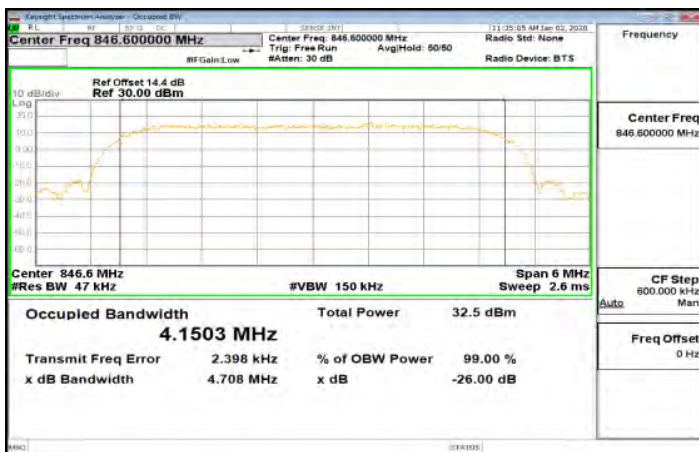
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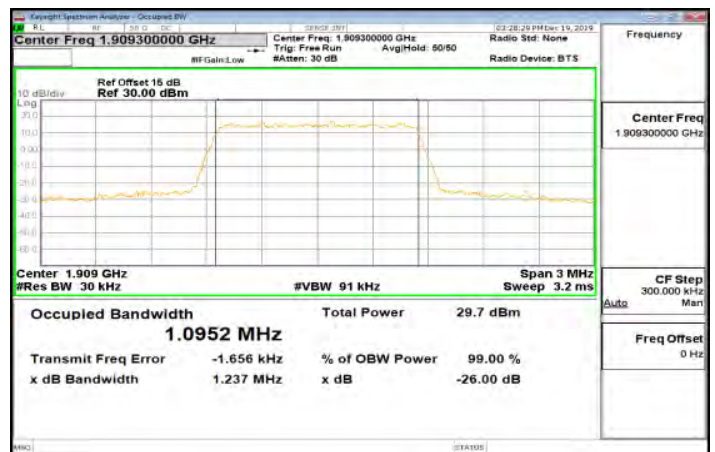
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HSUPA_B5_HighCH4233-846.6



Band2_1_4MHz_QPSK_6_0_Main_HighCH19193-1909.3



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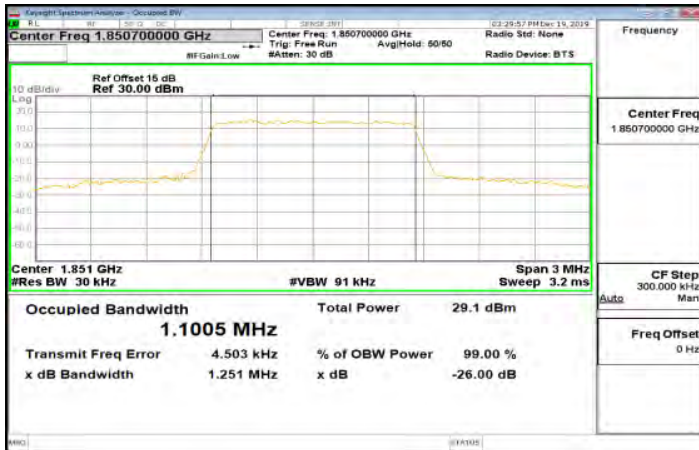
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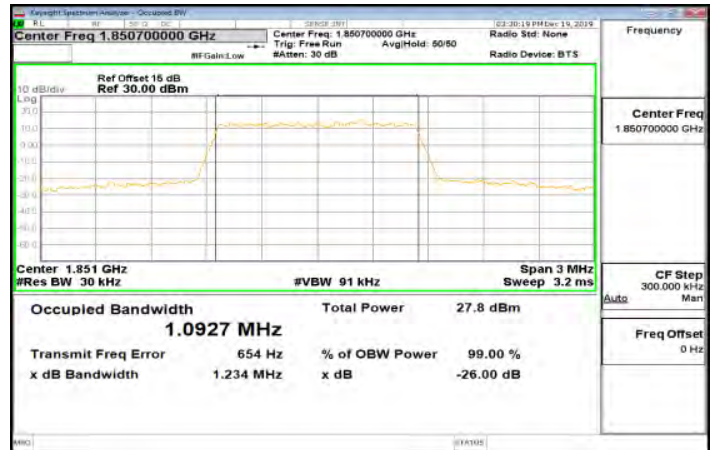
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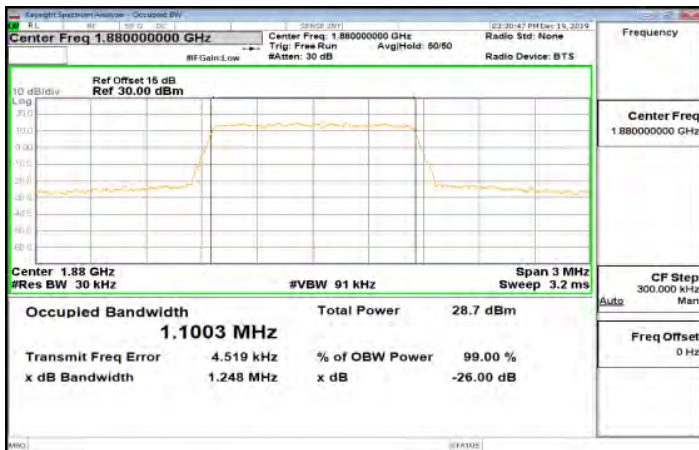
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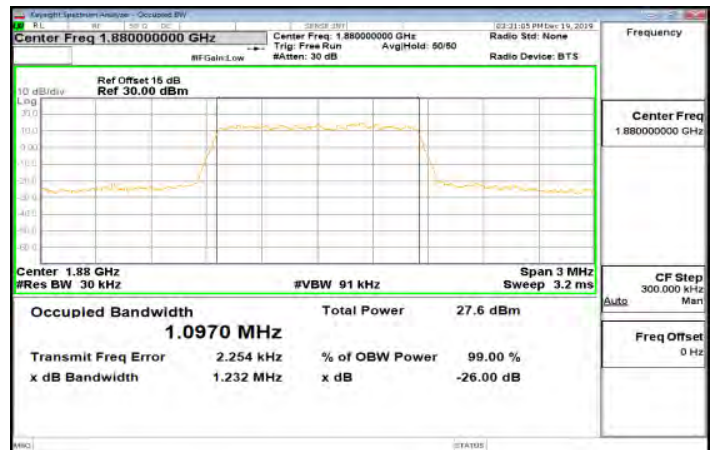
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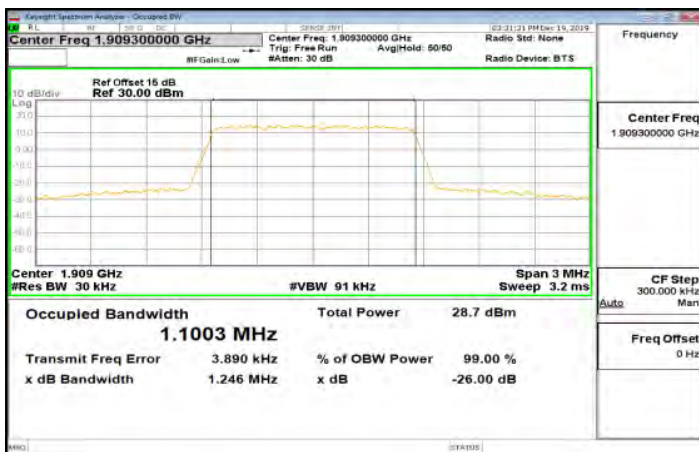
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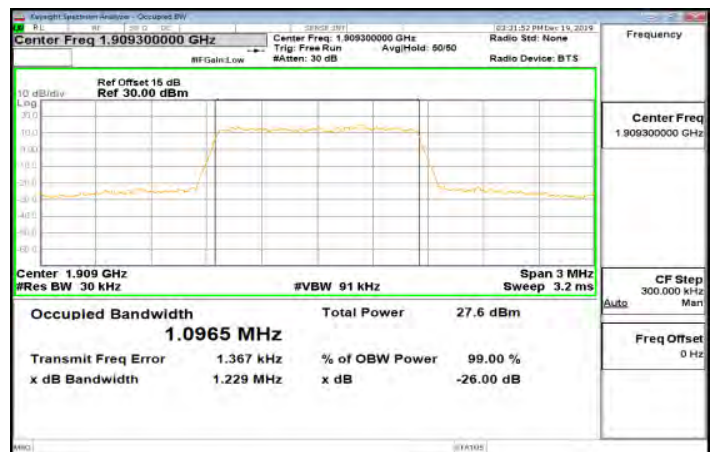
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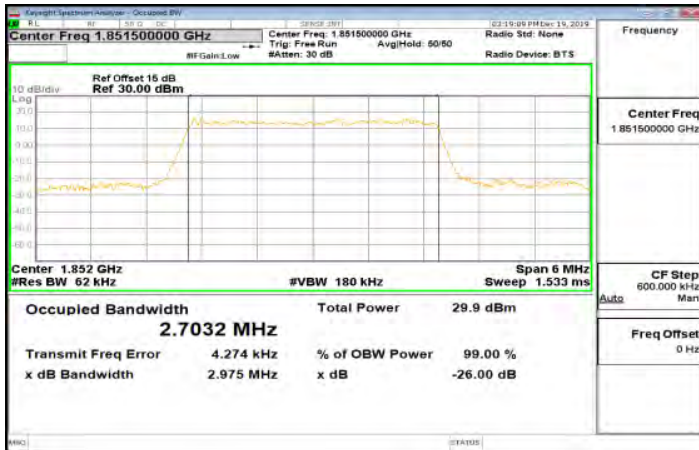


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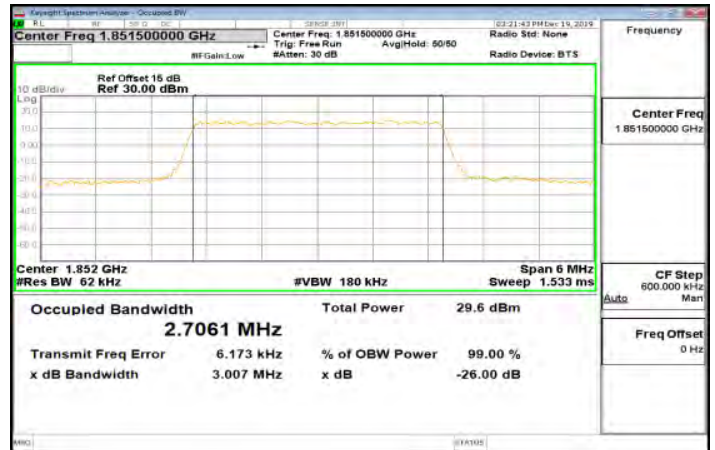
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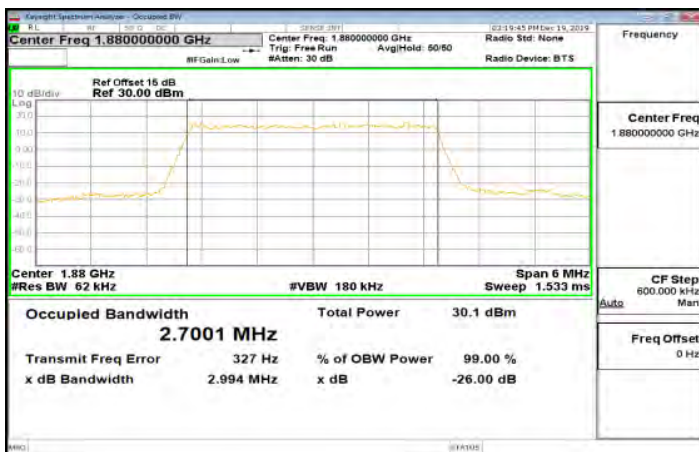
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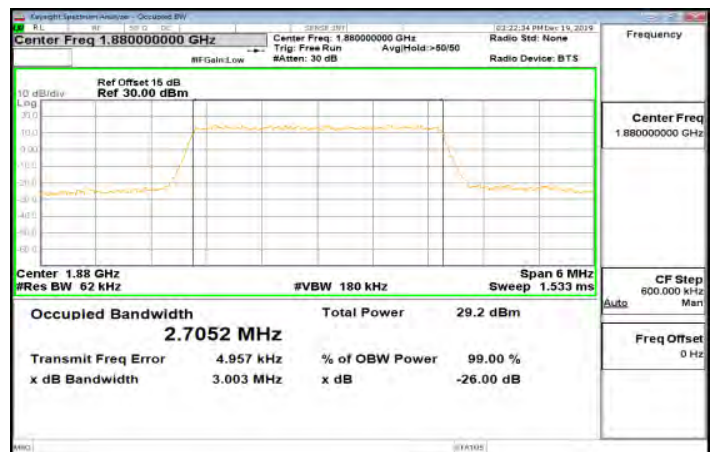
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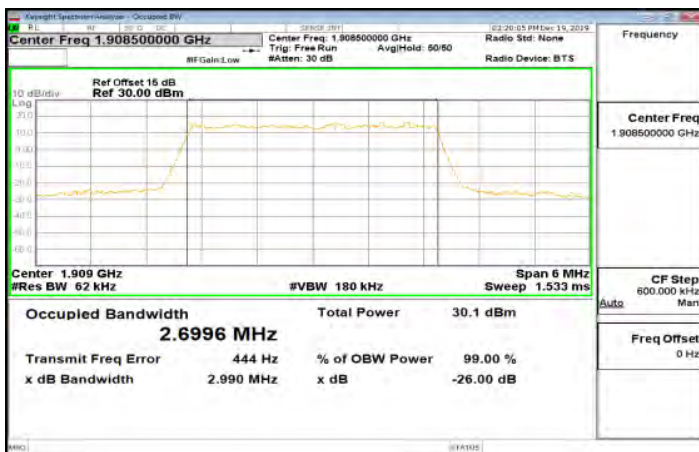
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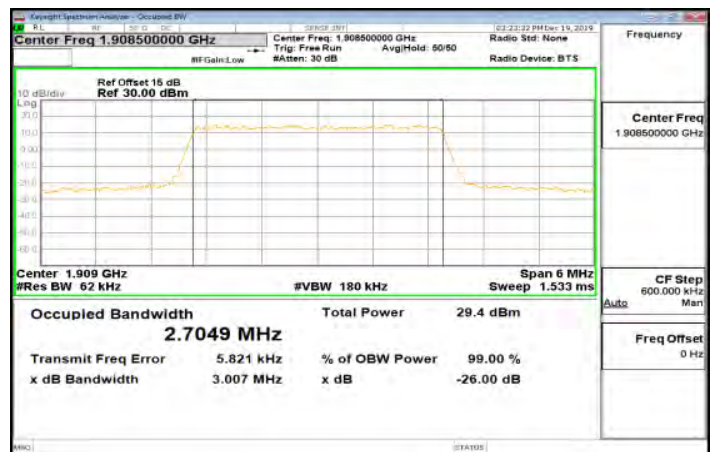
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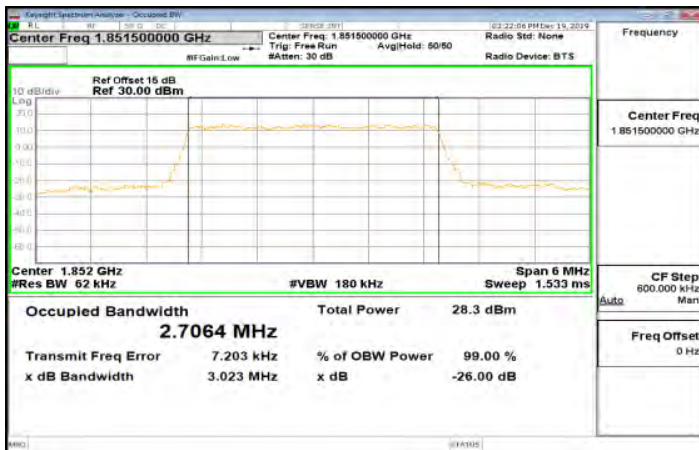


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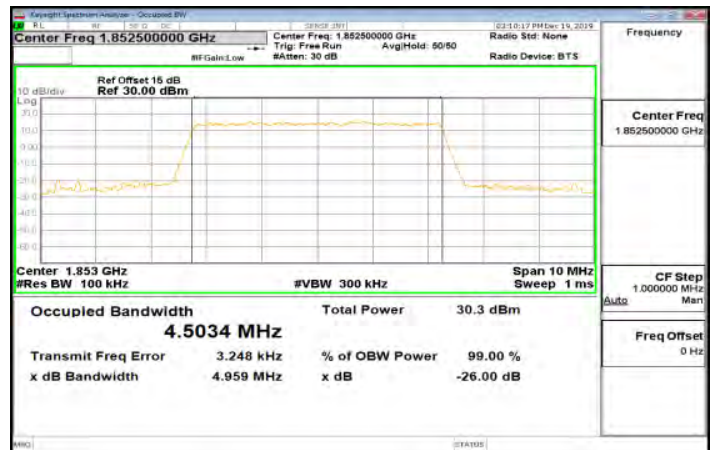
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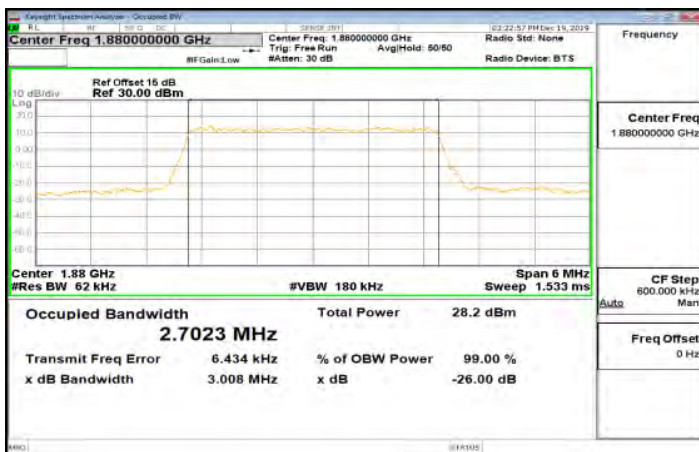
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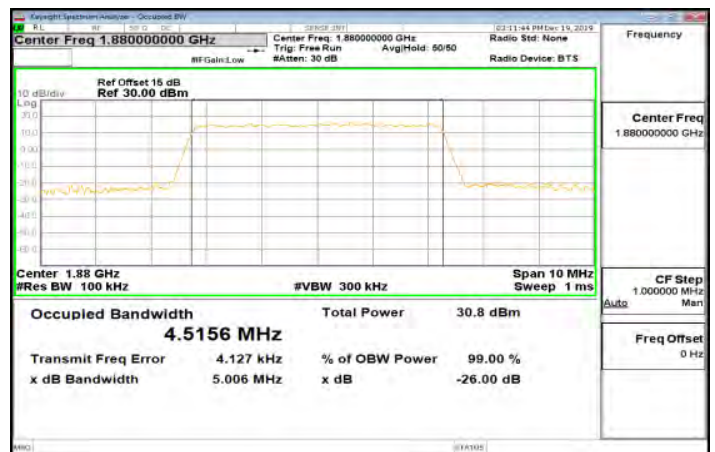
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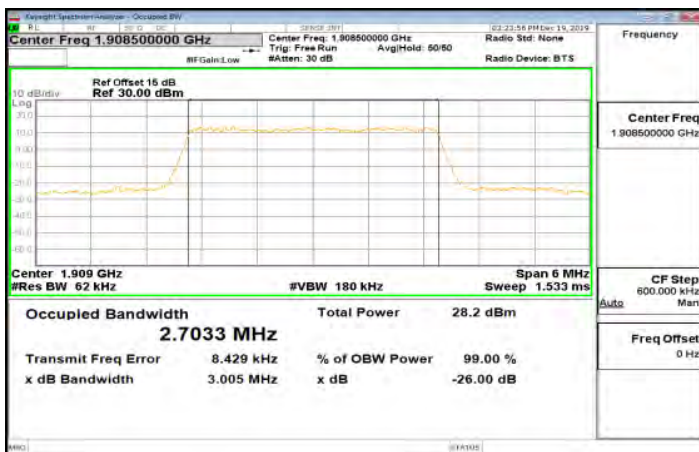
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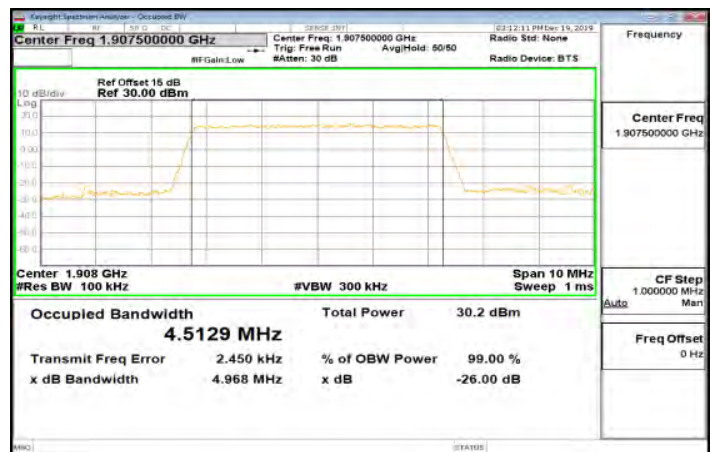
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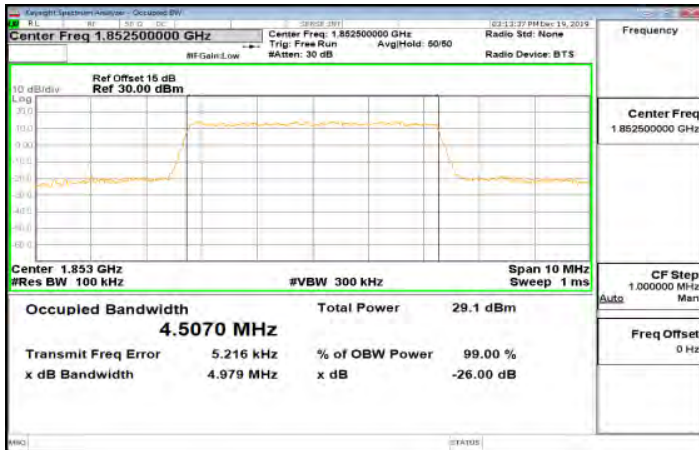


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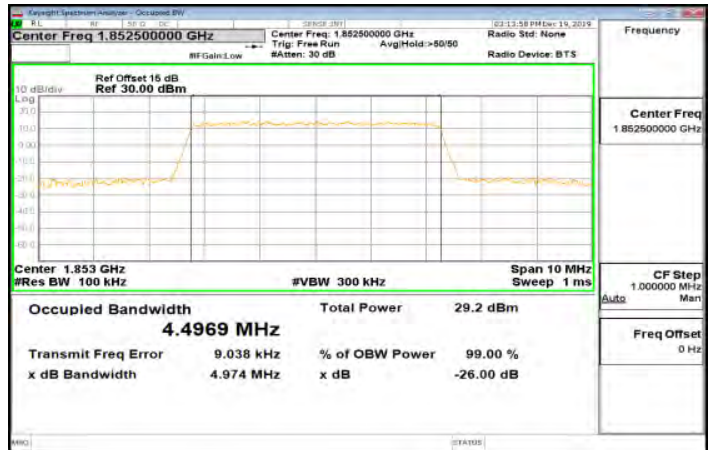
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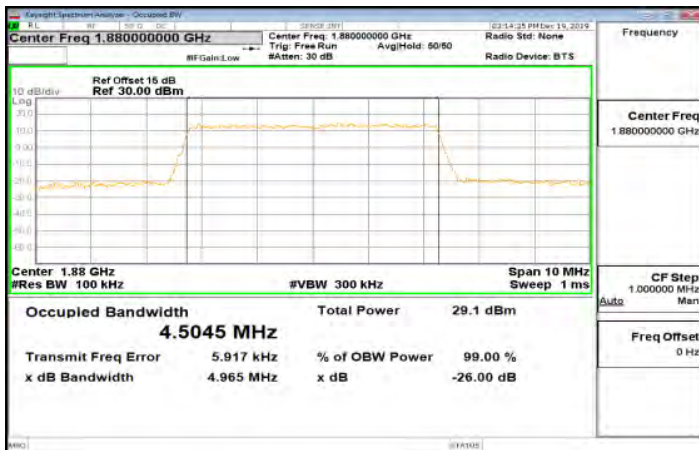
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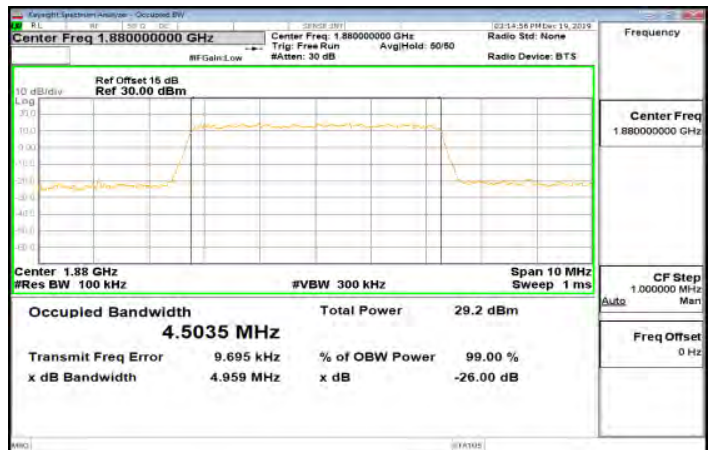
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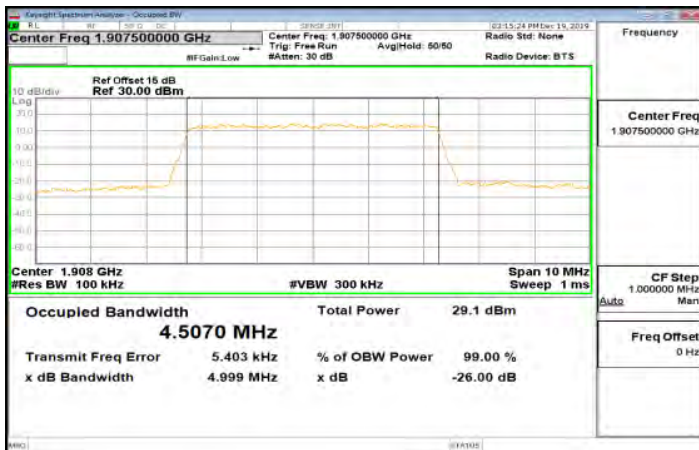
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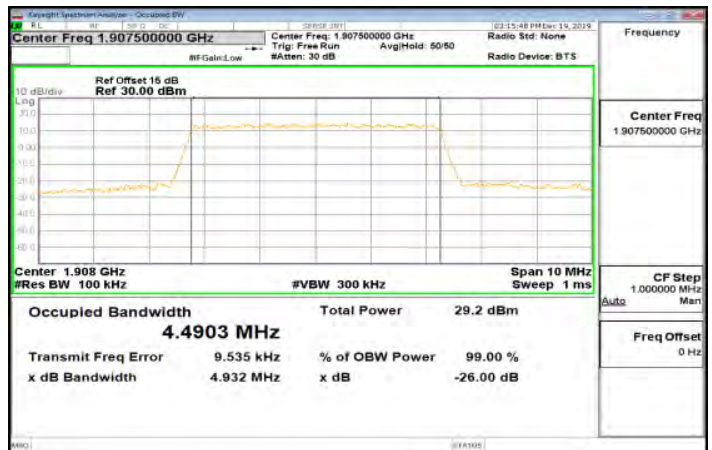
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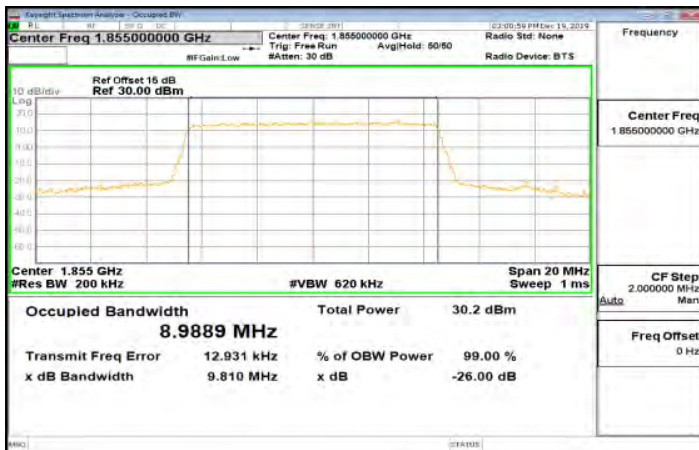


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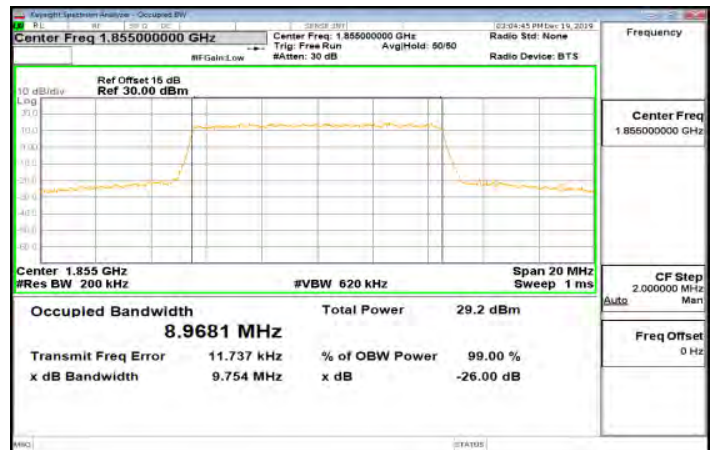
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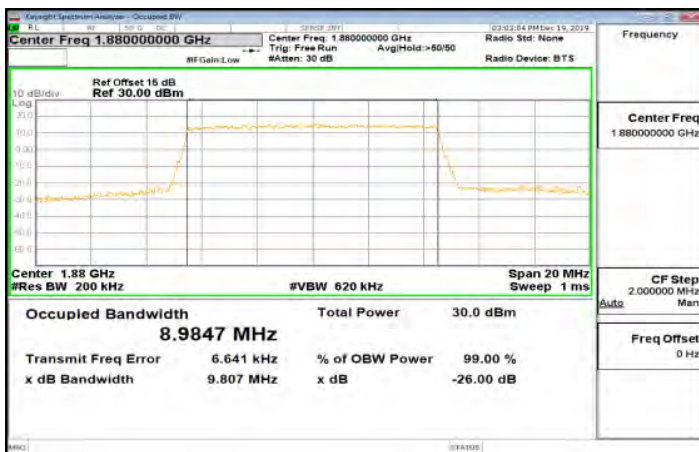
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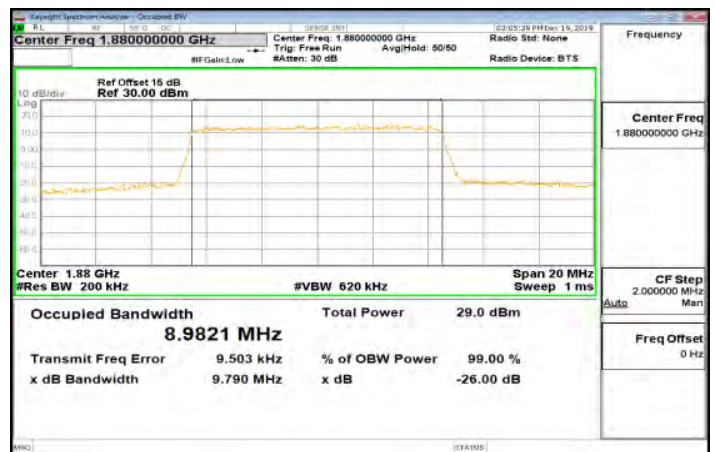
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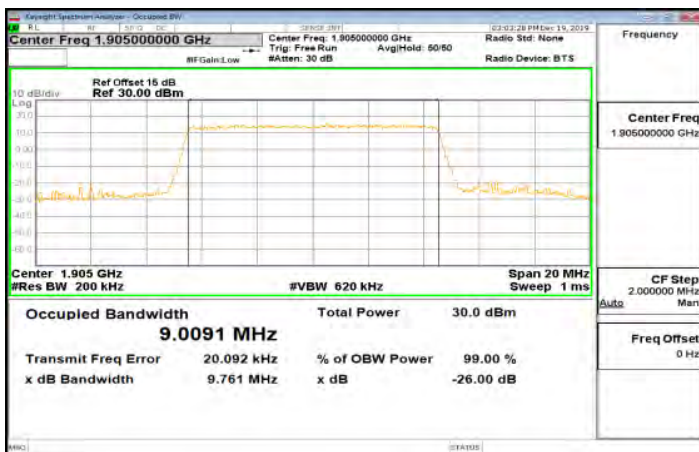
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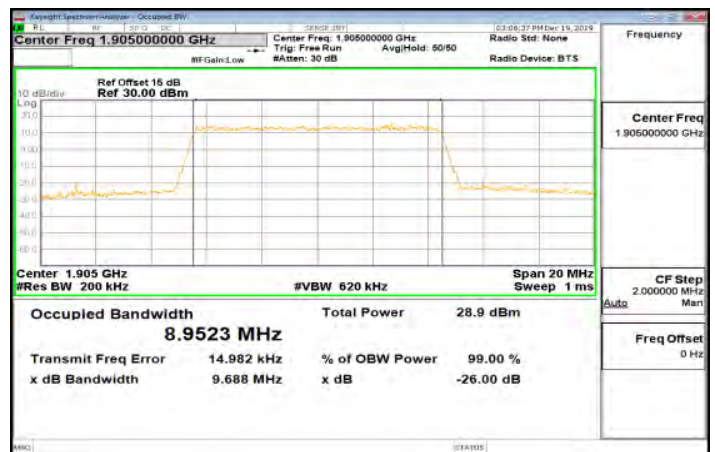
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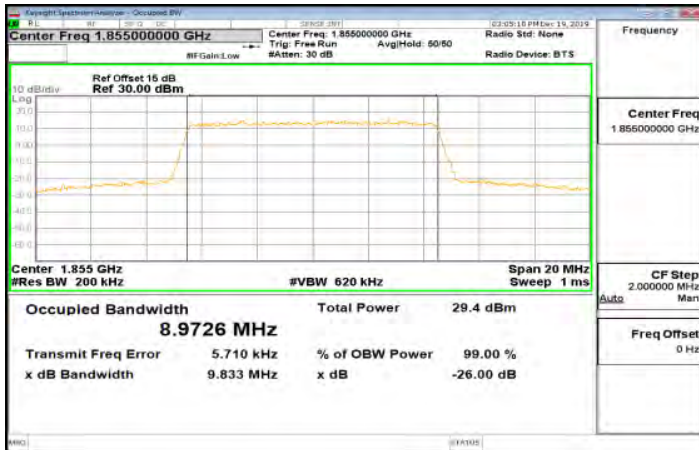


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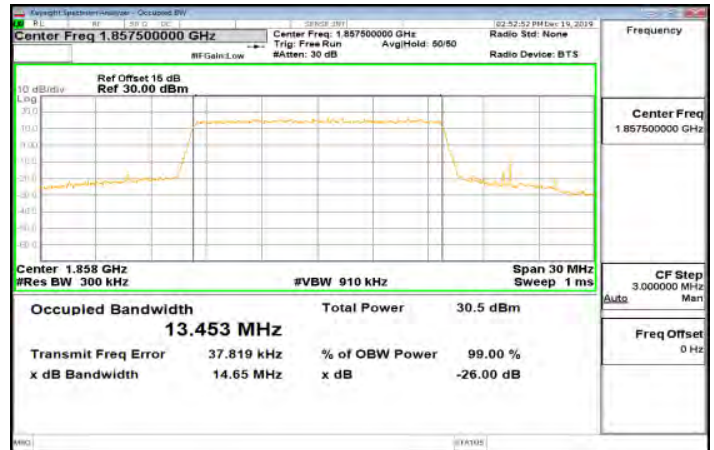
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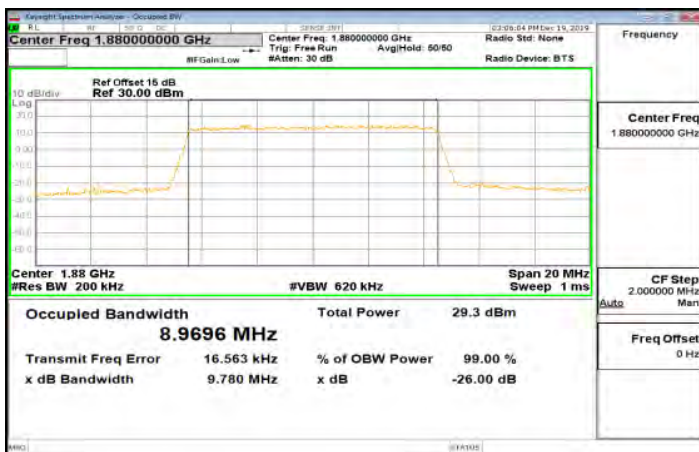
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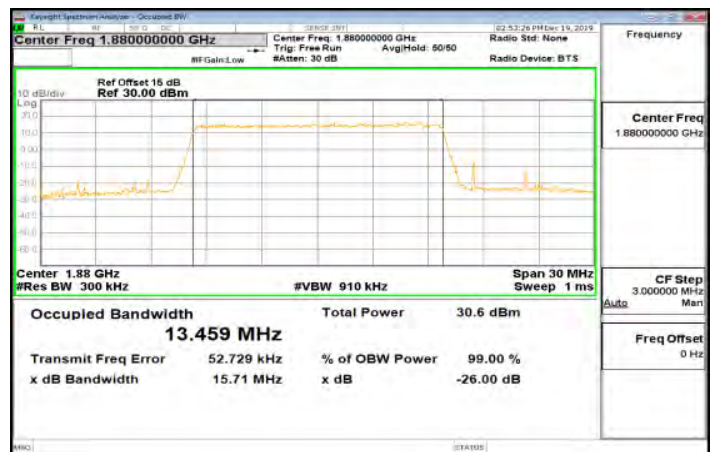
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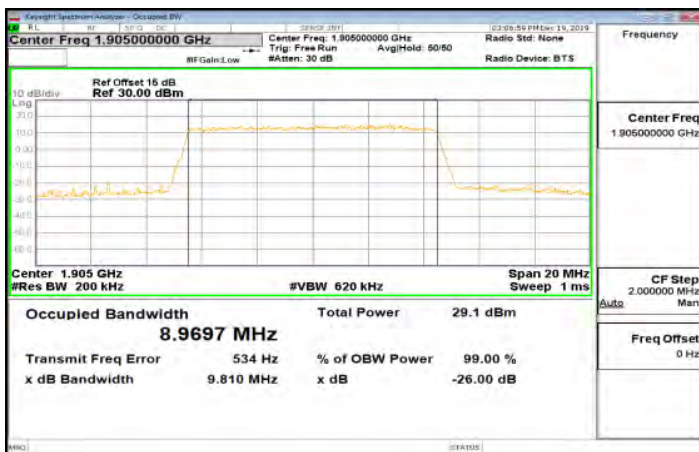
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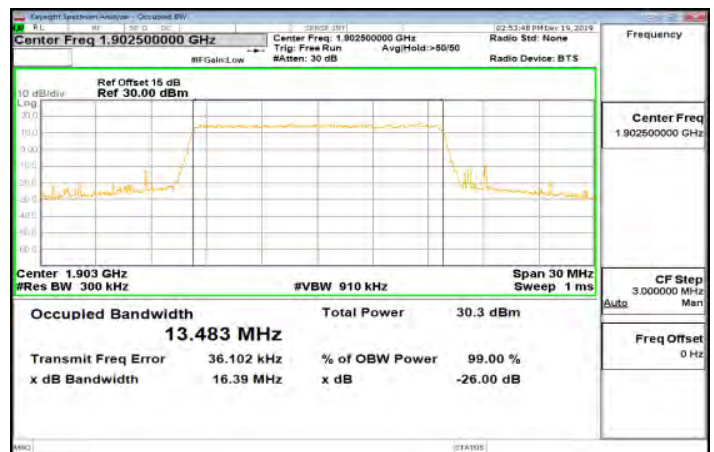
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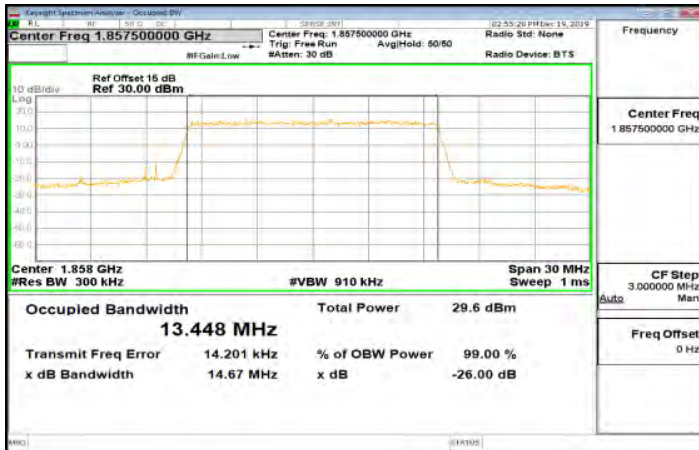


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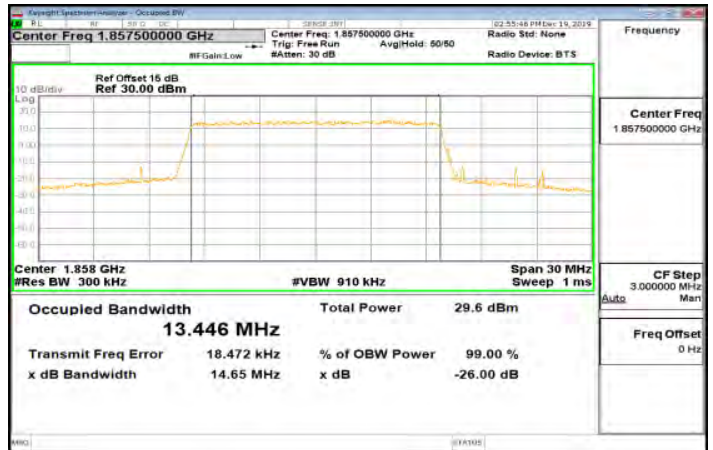
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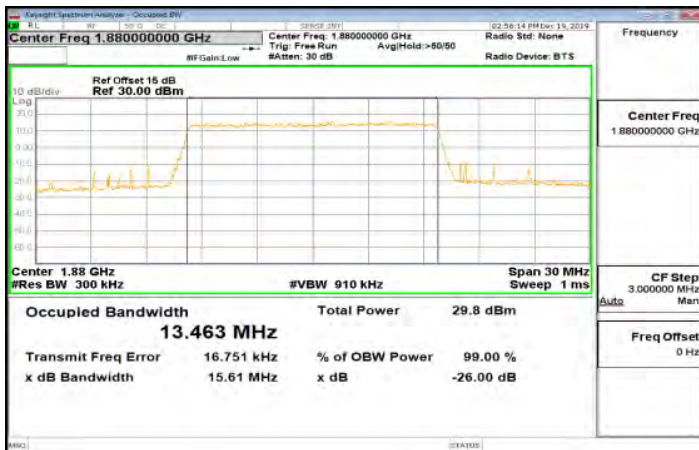
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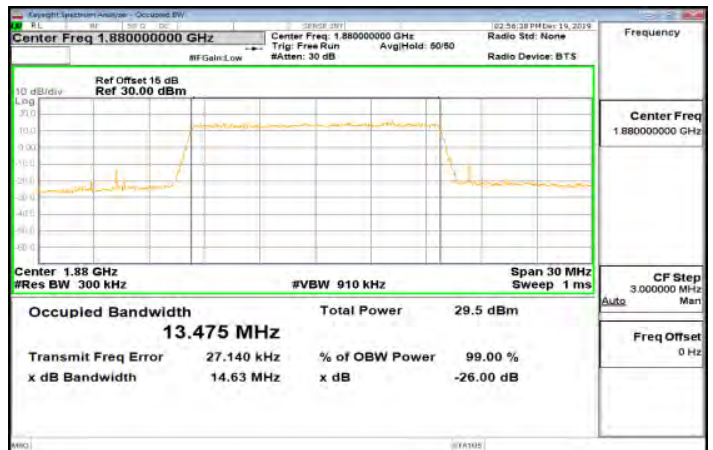
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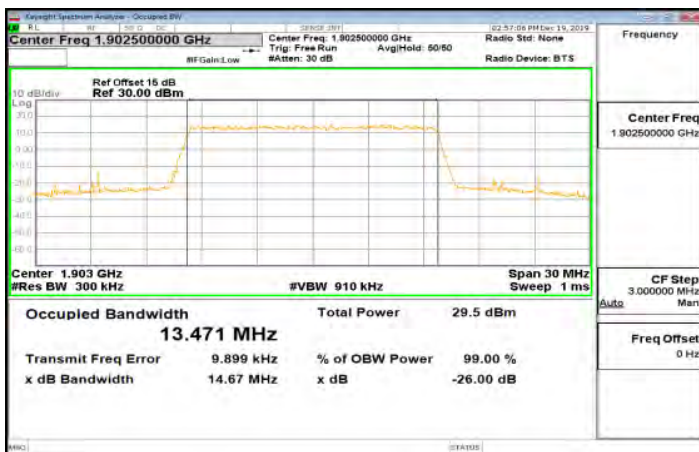
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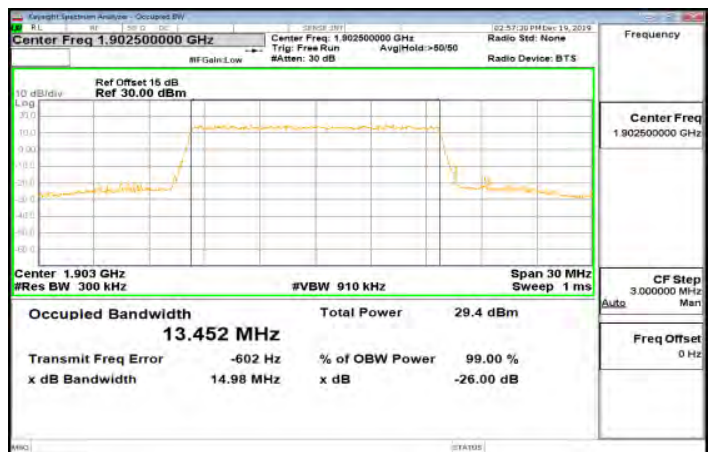
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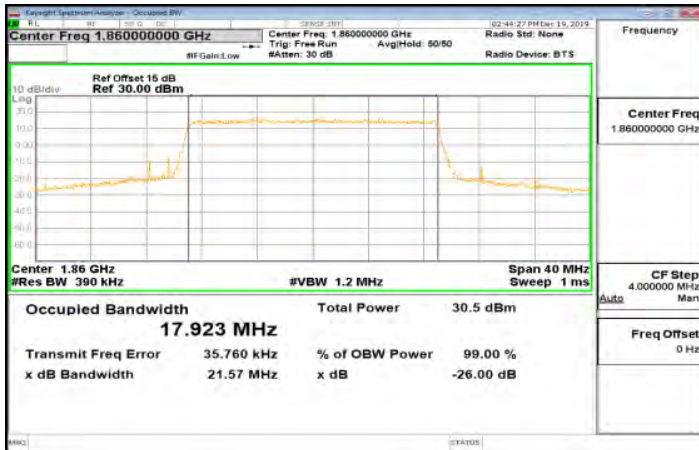


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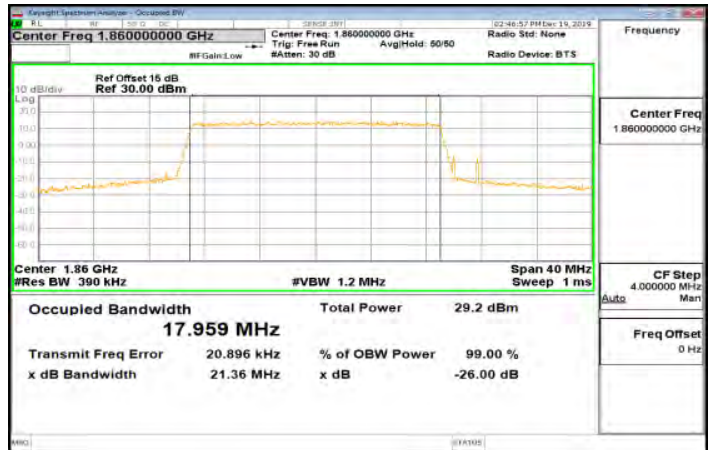
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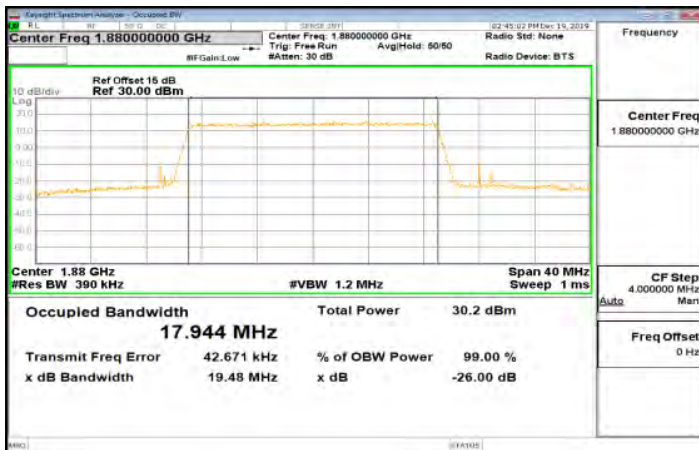
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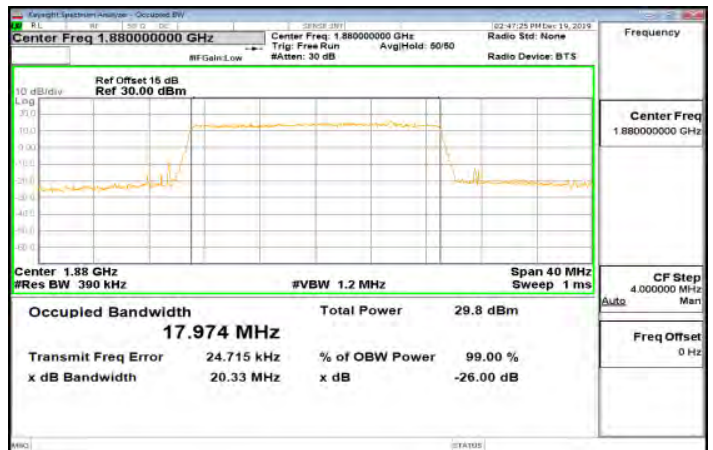
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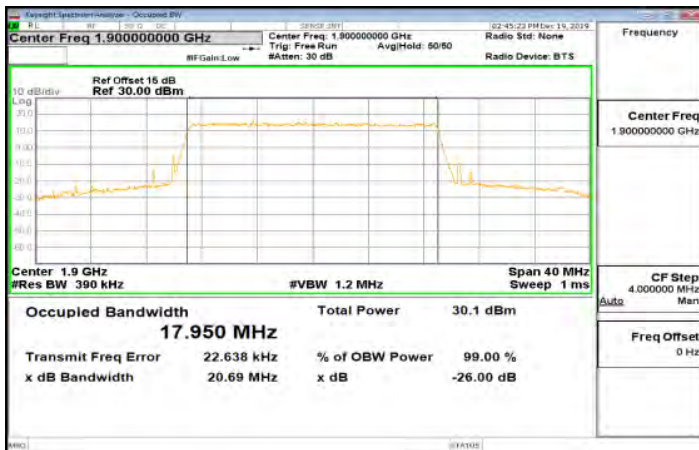
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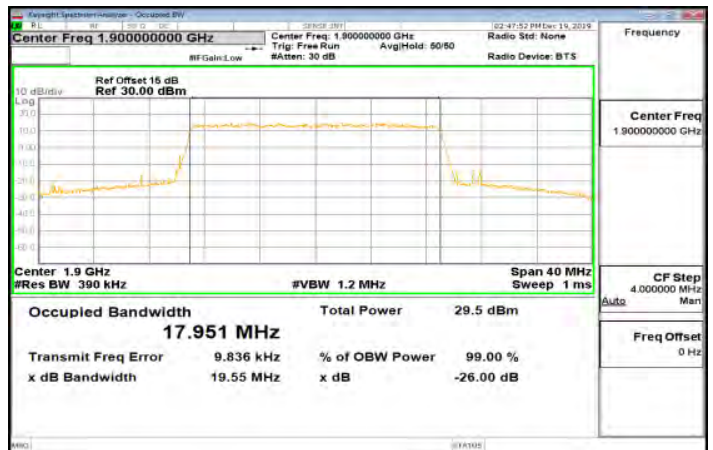
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Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900



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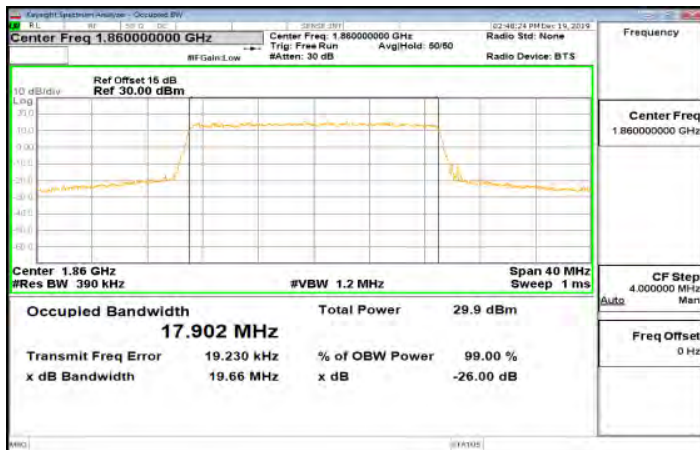


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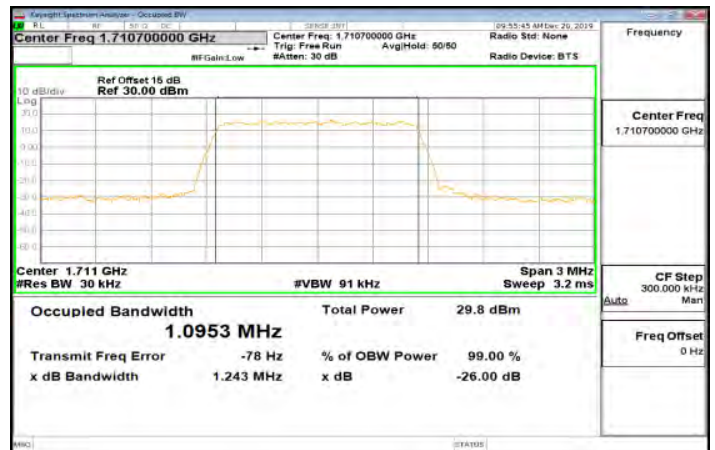
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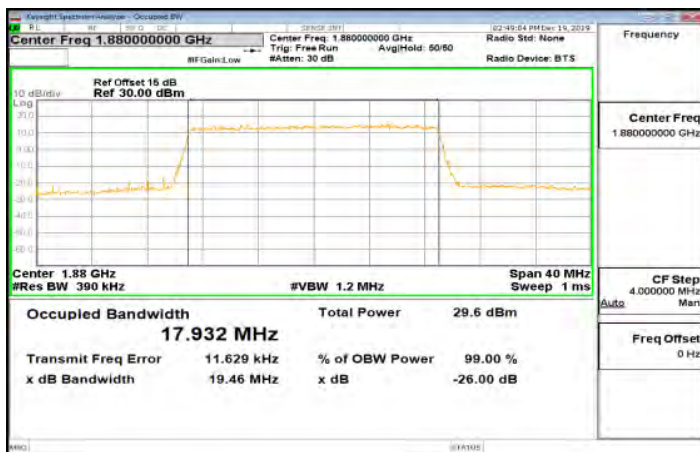
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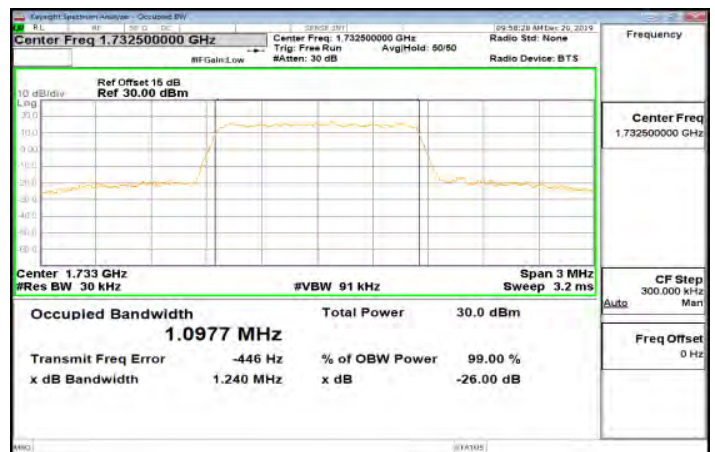
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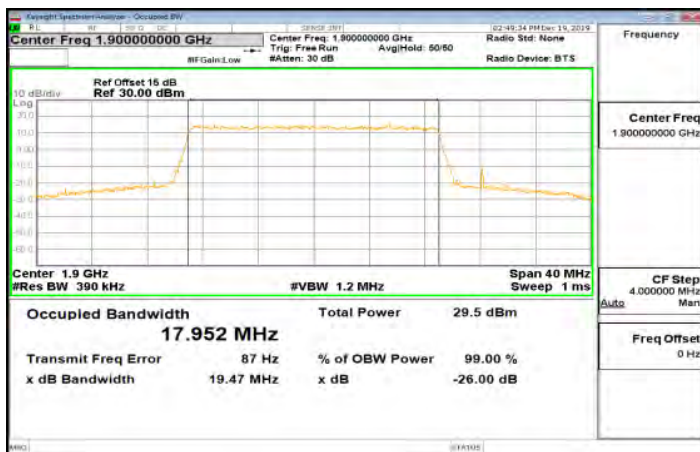
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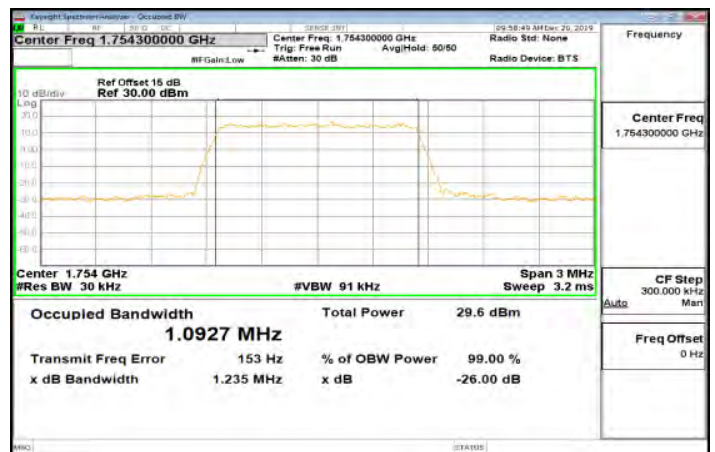
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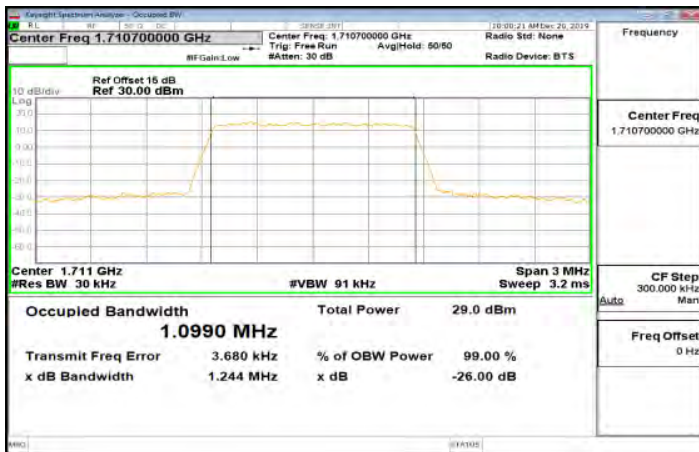


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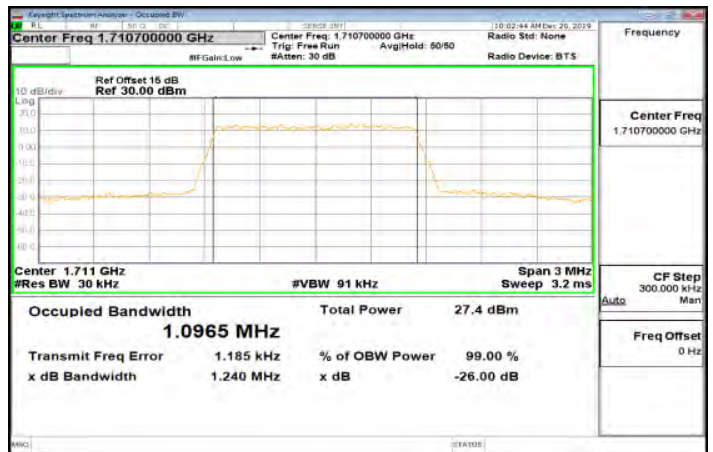
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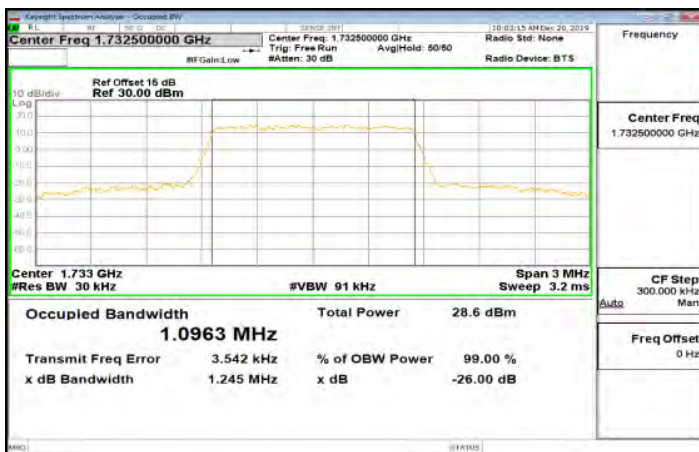
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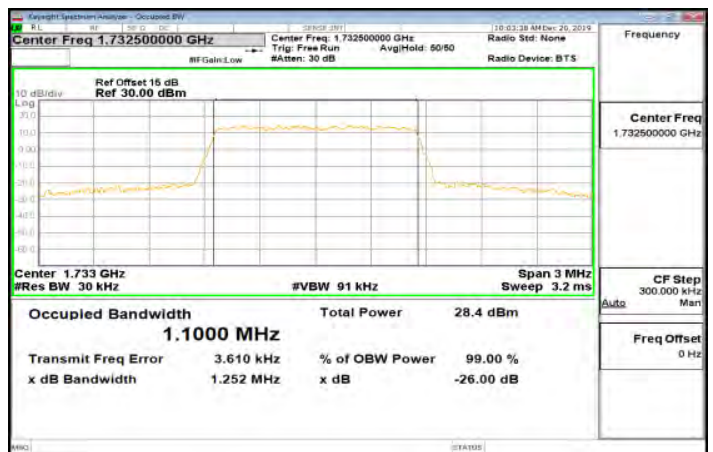
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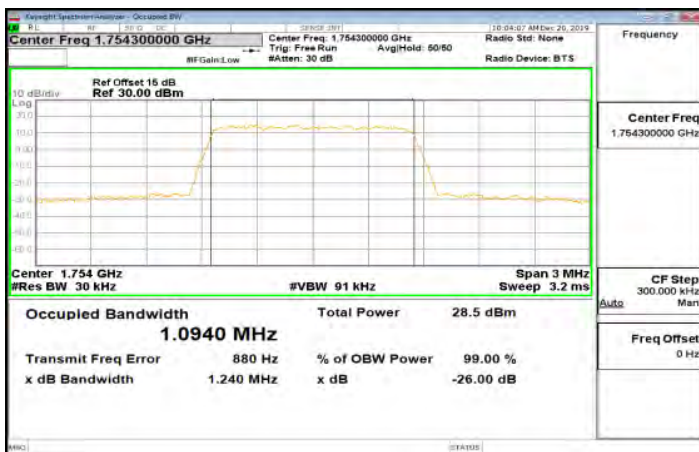
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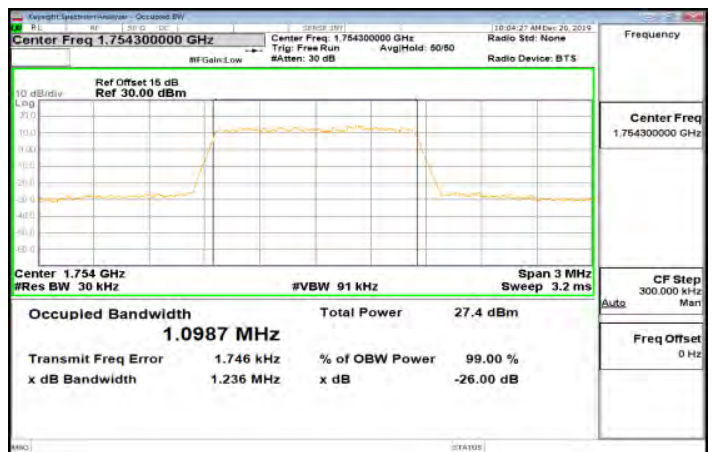
Band4_1_4MHz_64QAM_6_0_Main_MidCH20175-1732.5



Band4_1_4MHz_16QAM_6_0_Main_HighCH20393-1754.3



Band4_1_4MHz_64QAM_6_0_Main_HighCH20393-1754.3

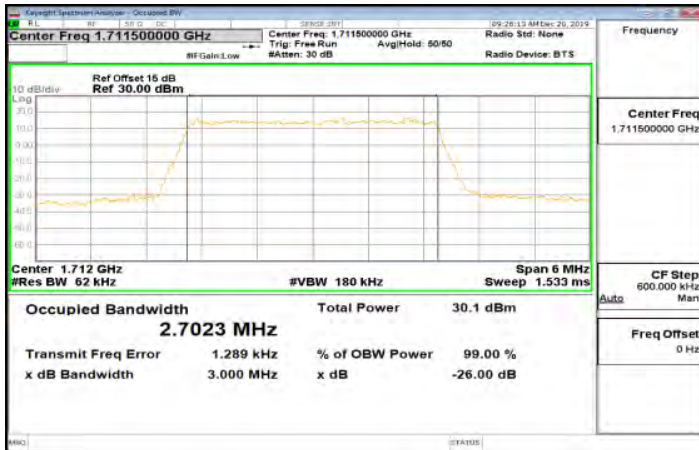


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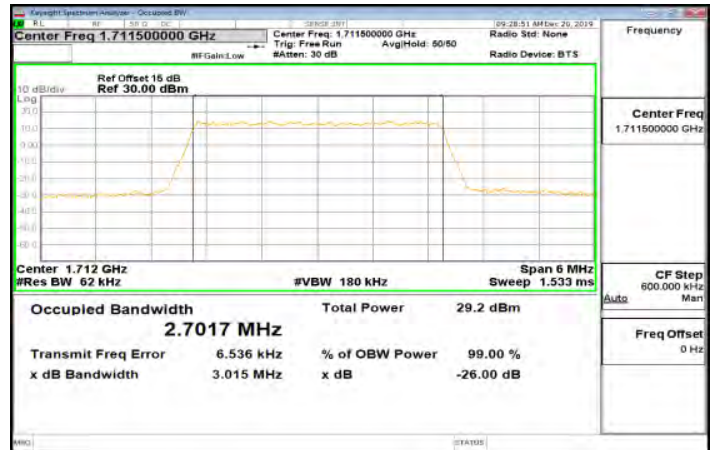
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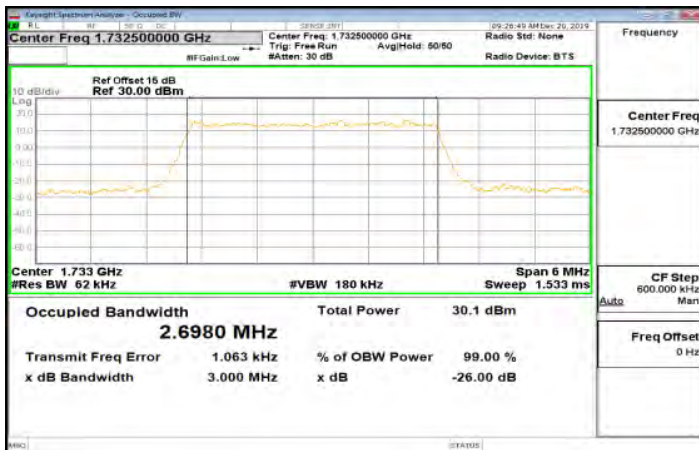
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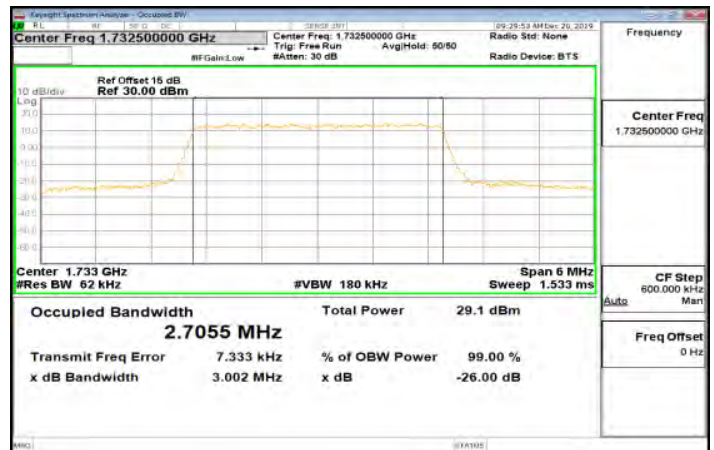
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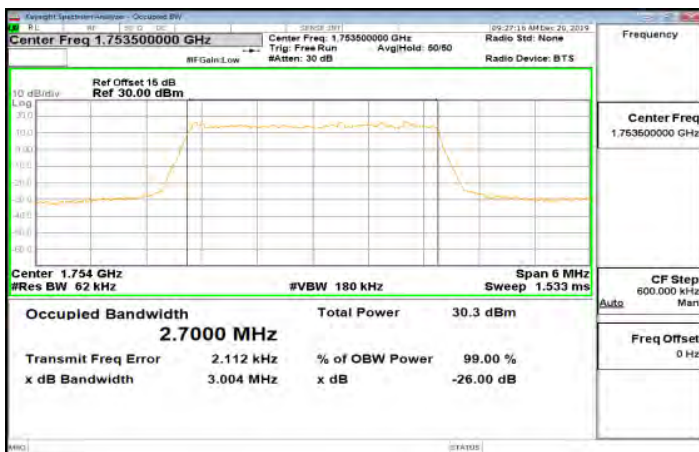
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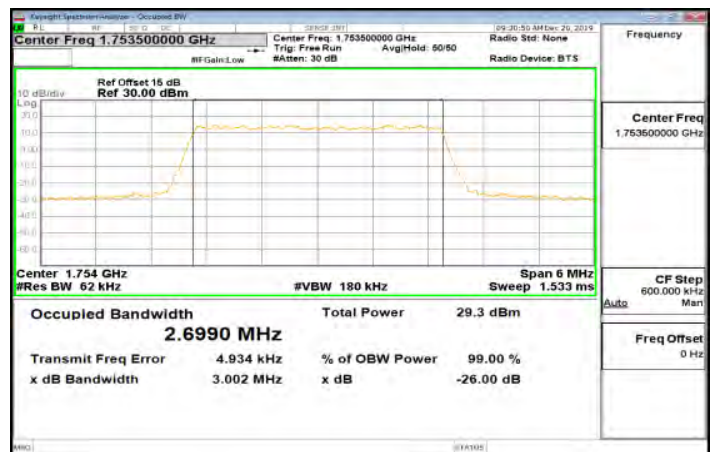
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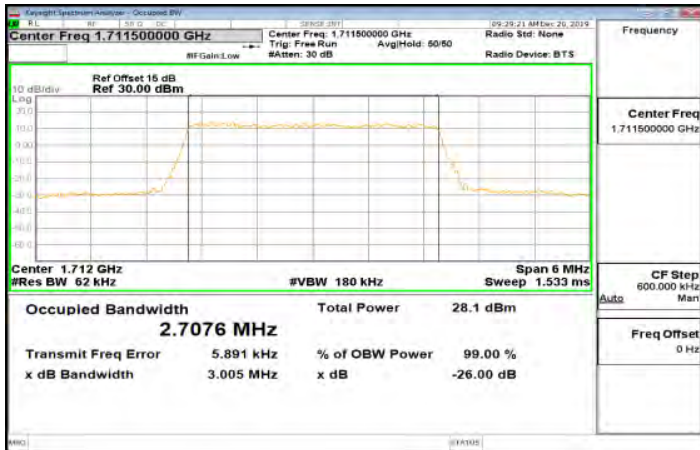


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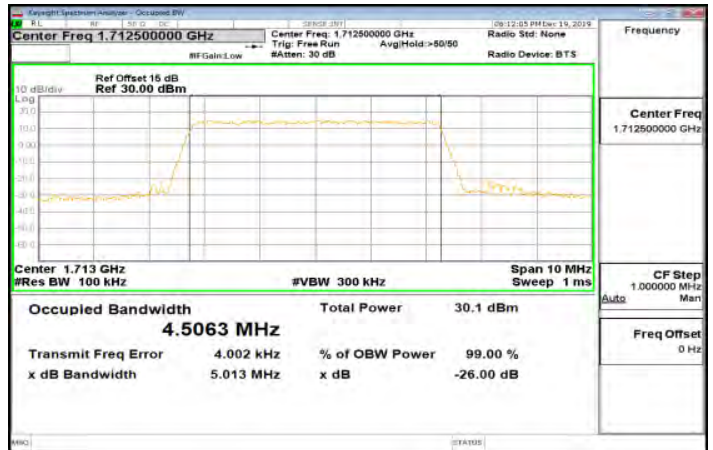
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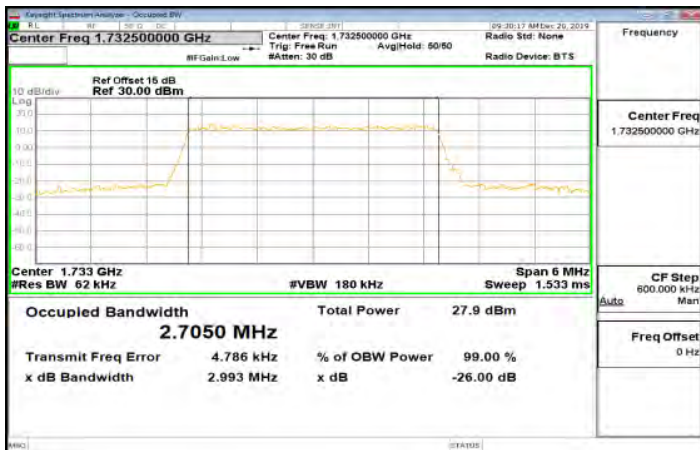
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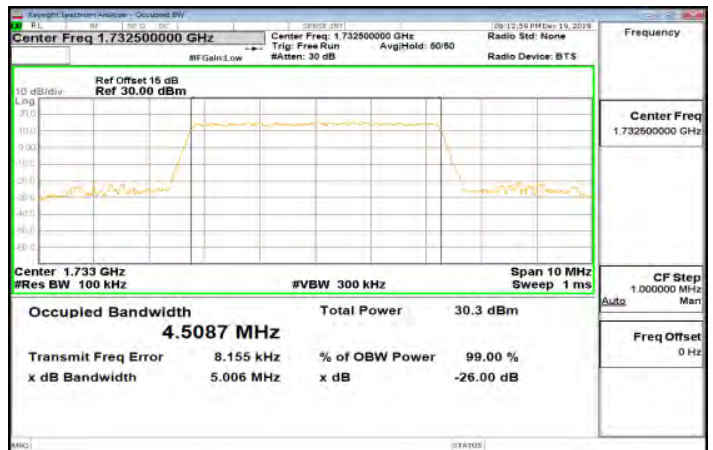
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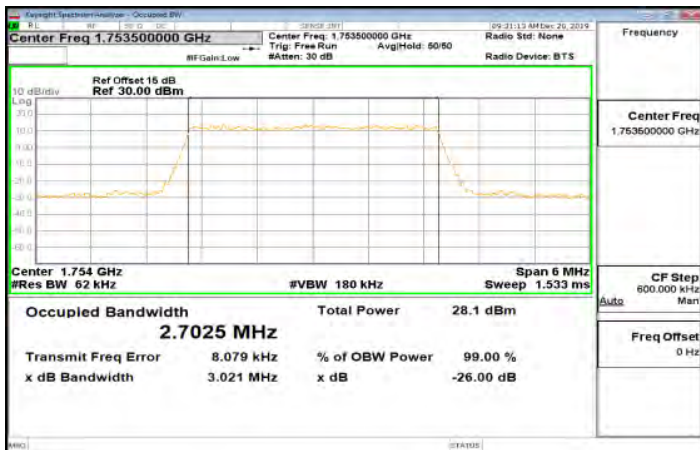
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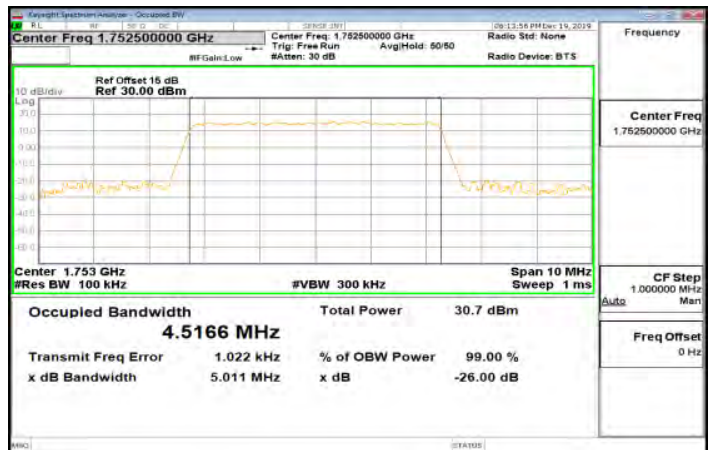
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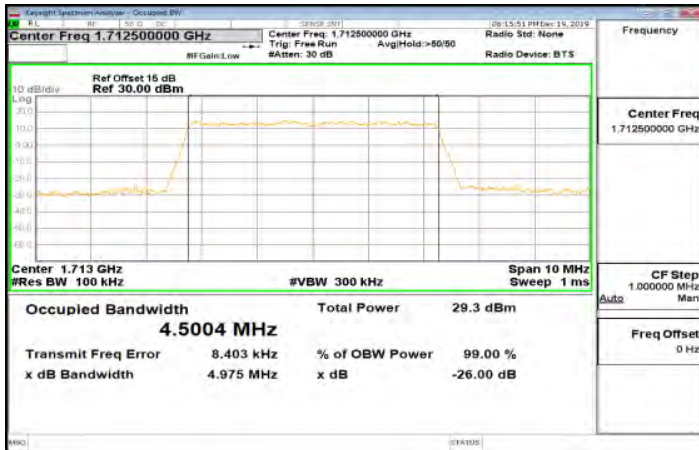


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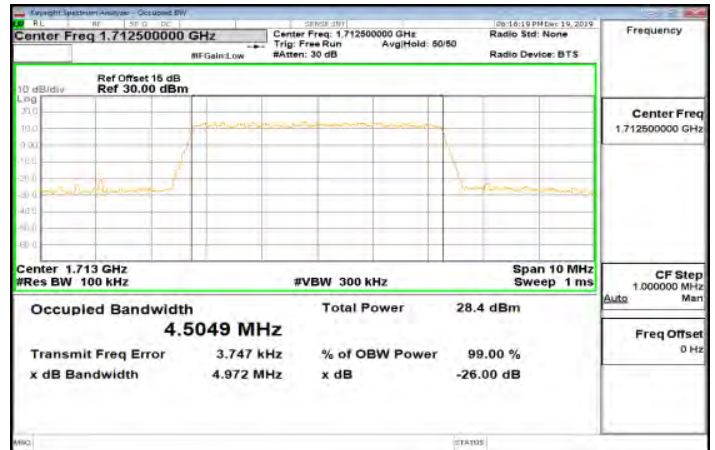
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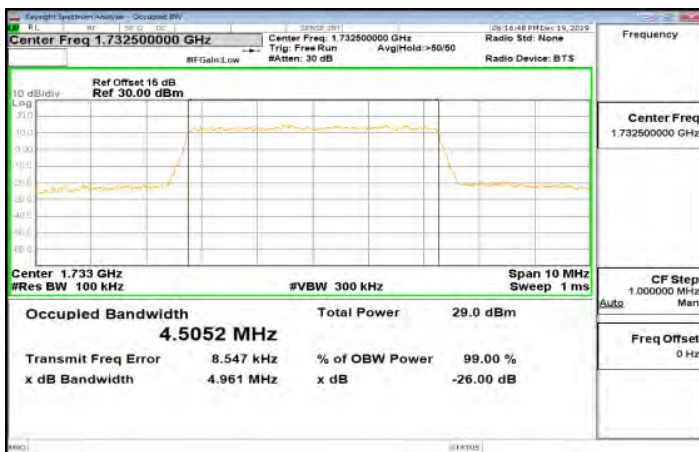
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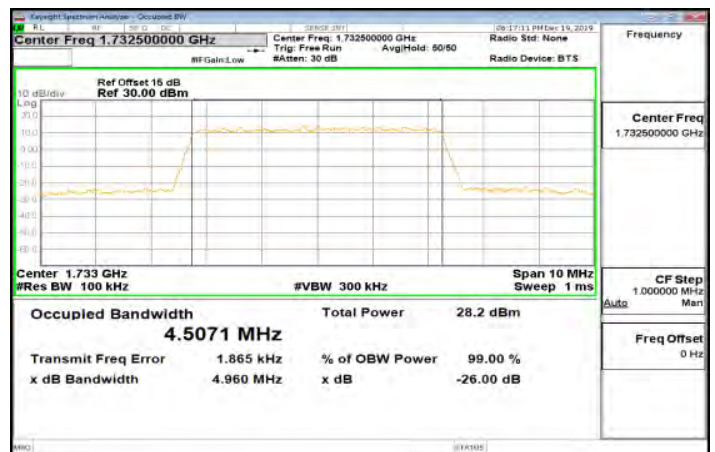
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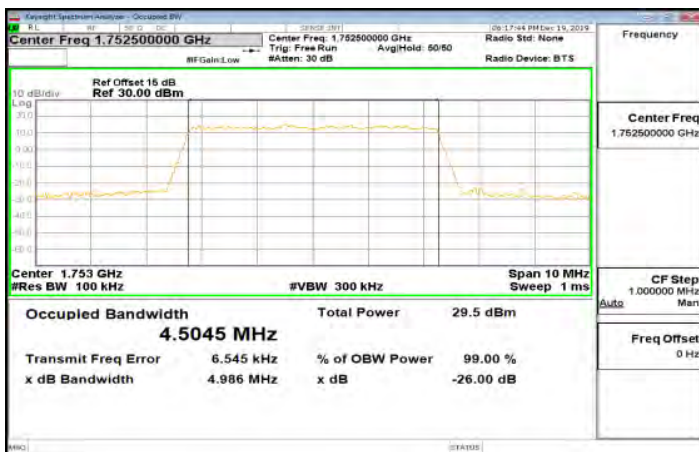
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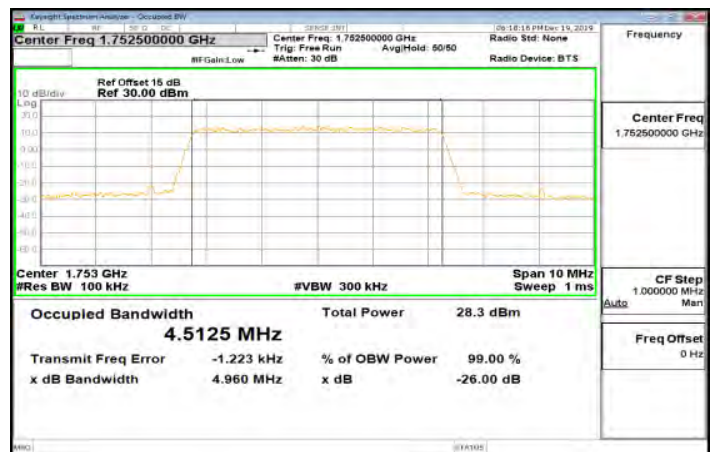
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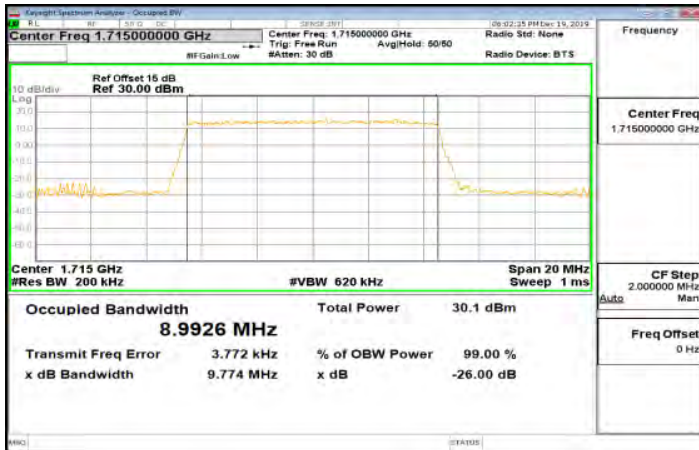


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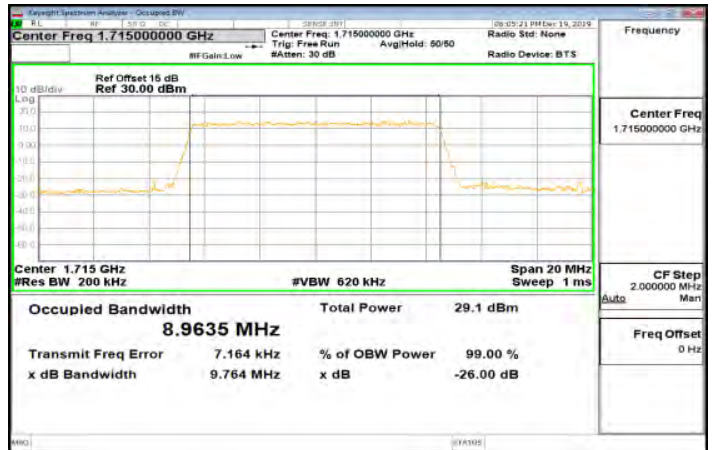
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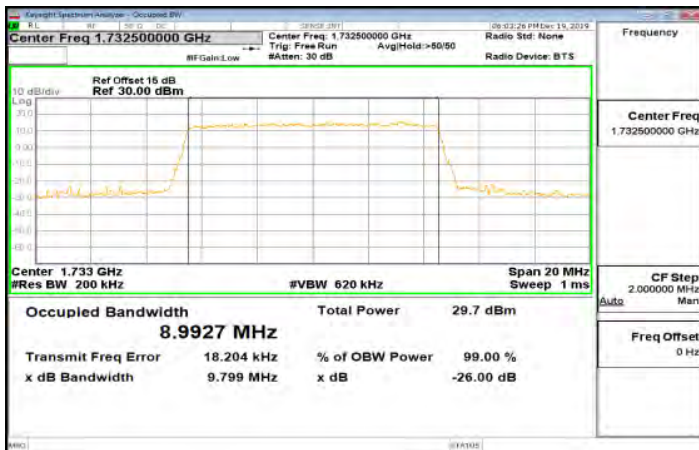
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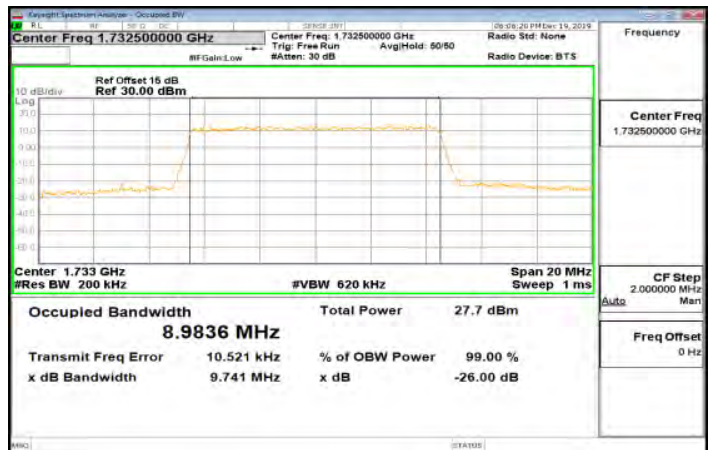
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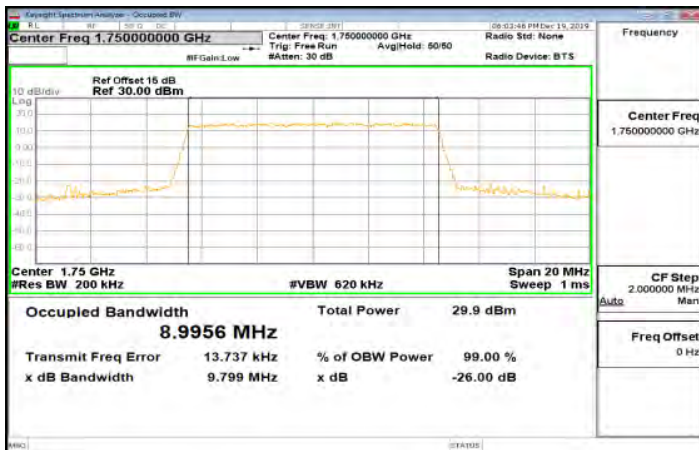
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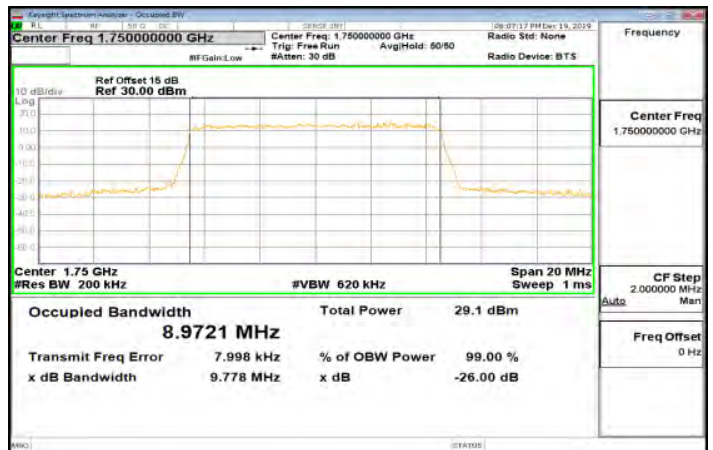
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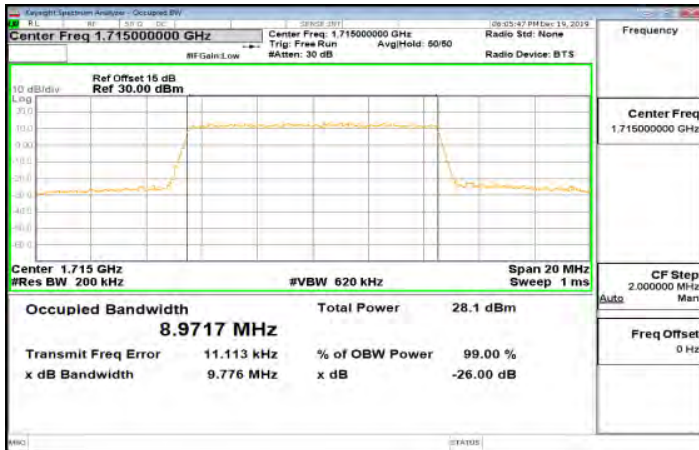


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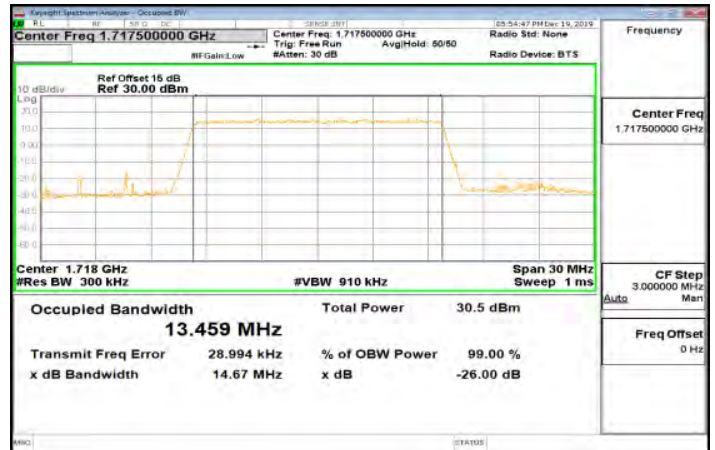
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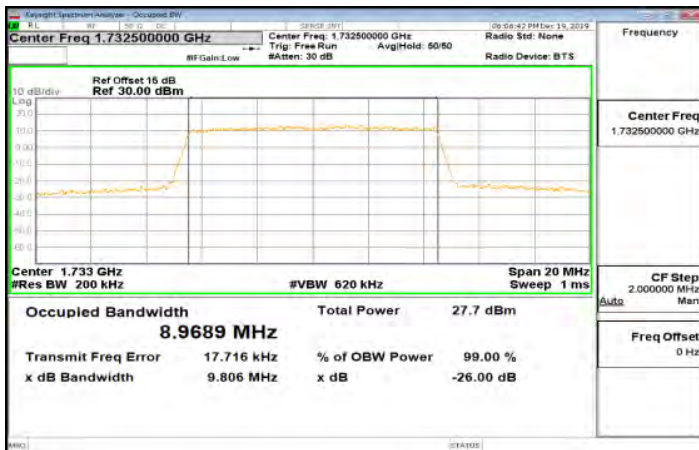
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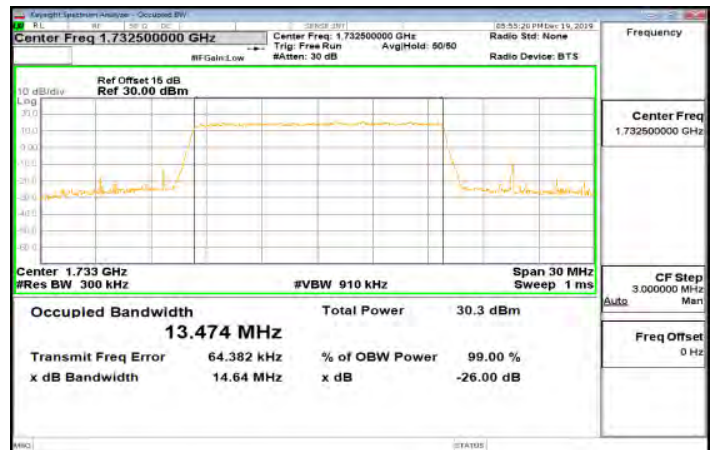
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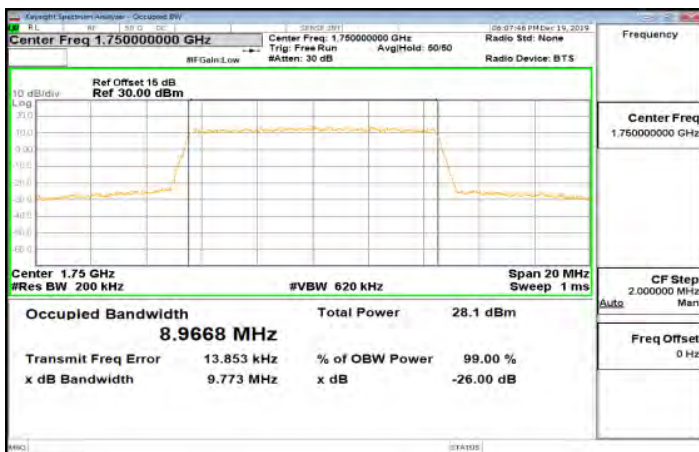
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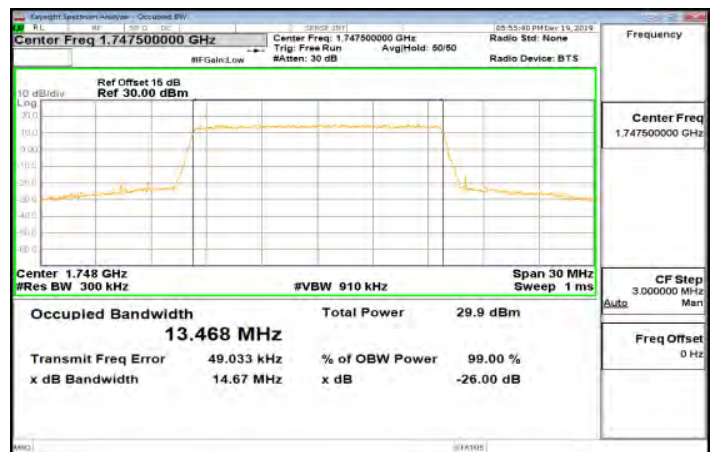
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Band4_10MHz_64QAM_50_0_Main_HighCH20350-1750



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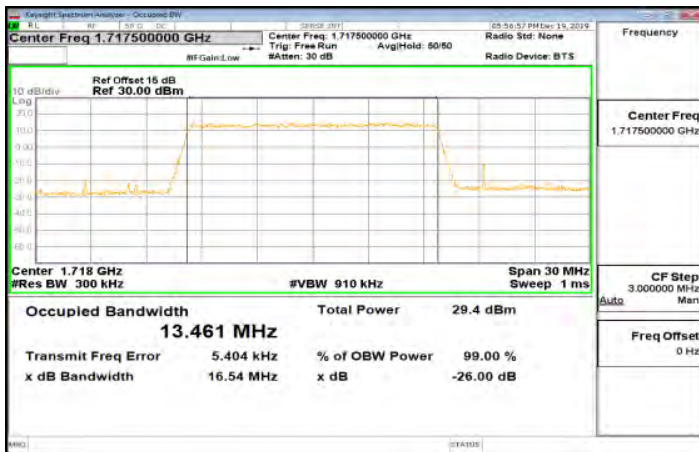


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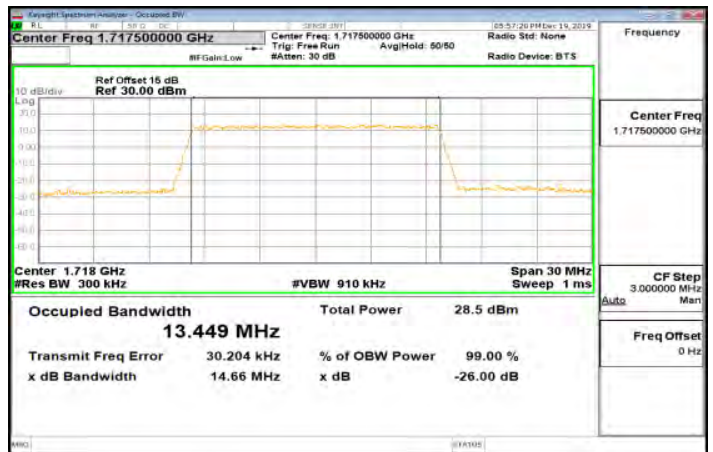
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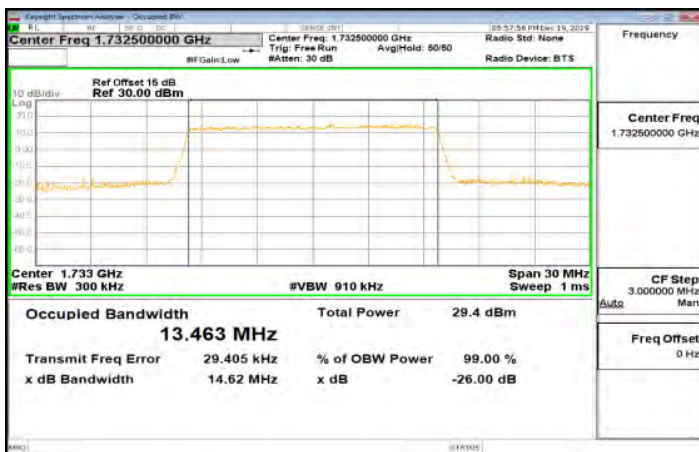
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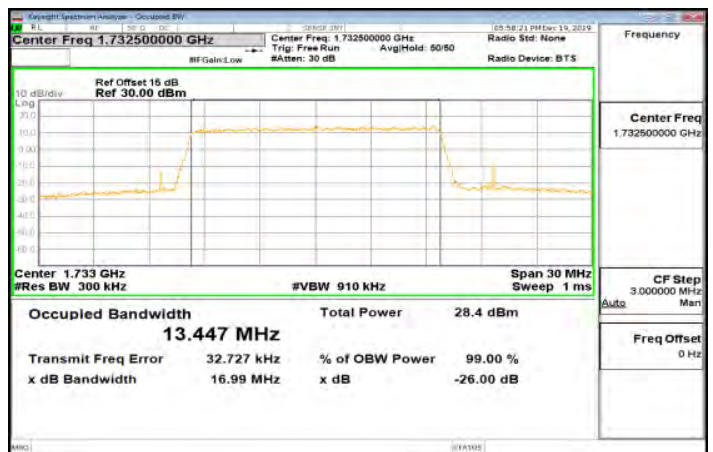
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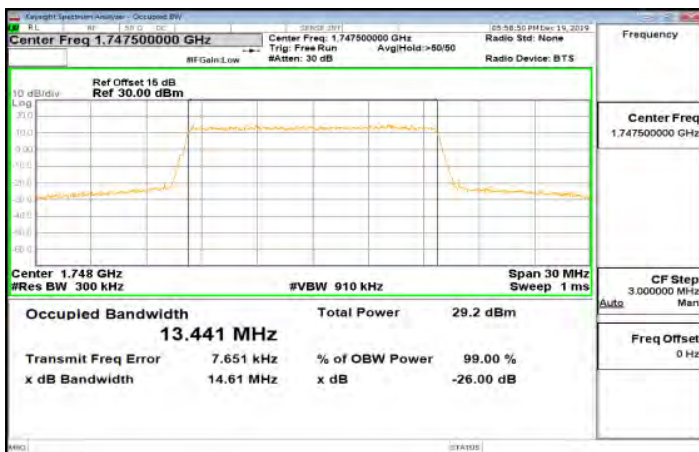
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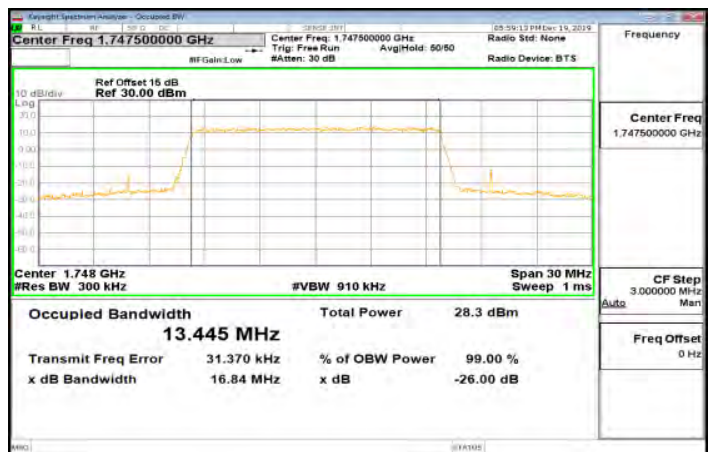
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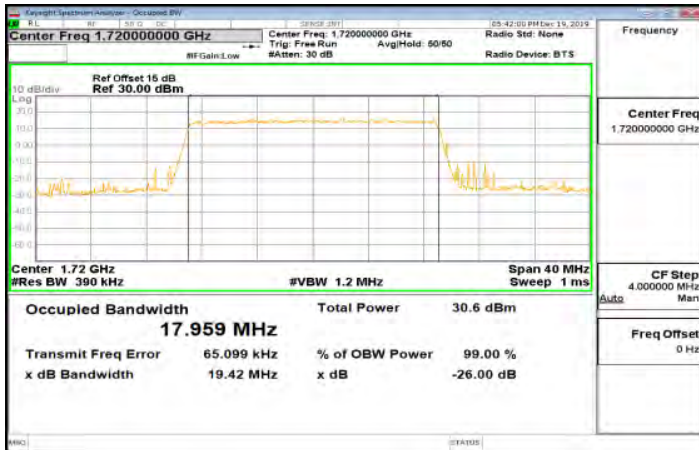


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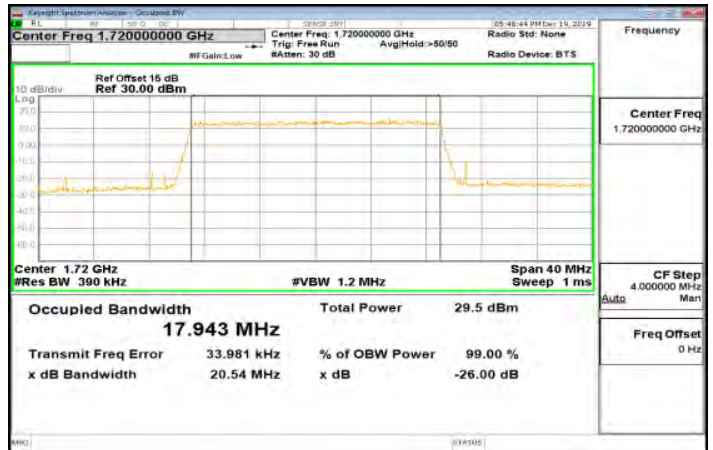
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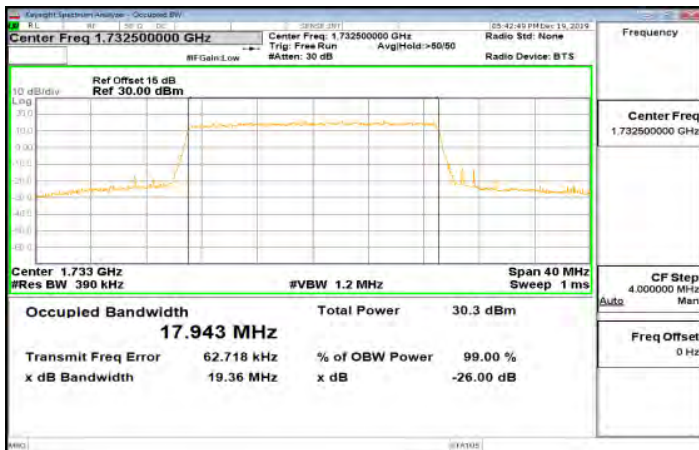
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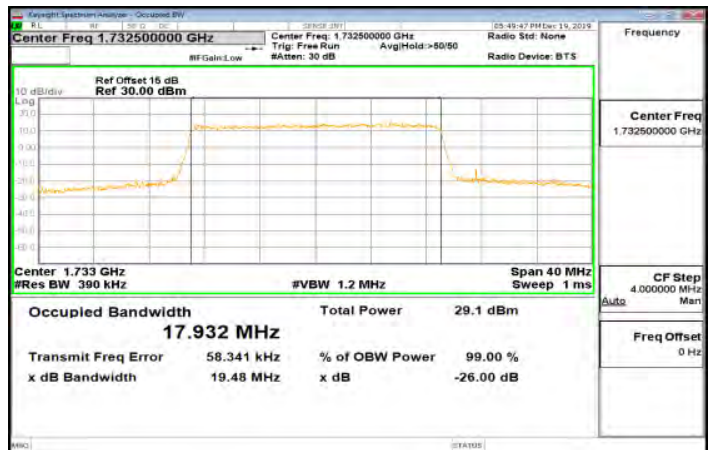
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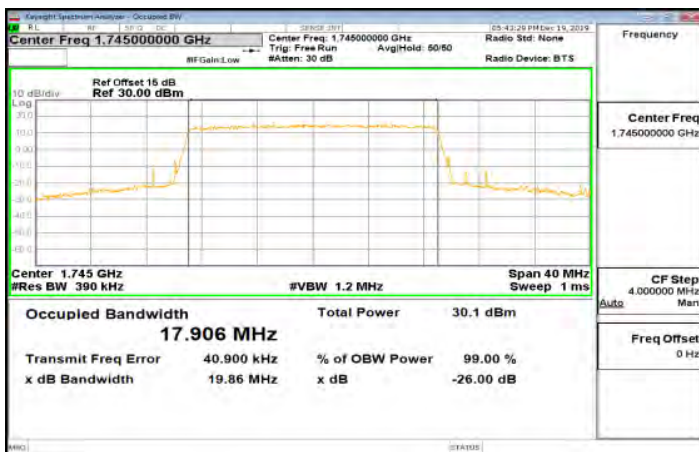
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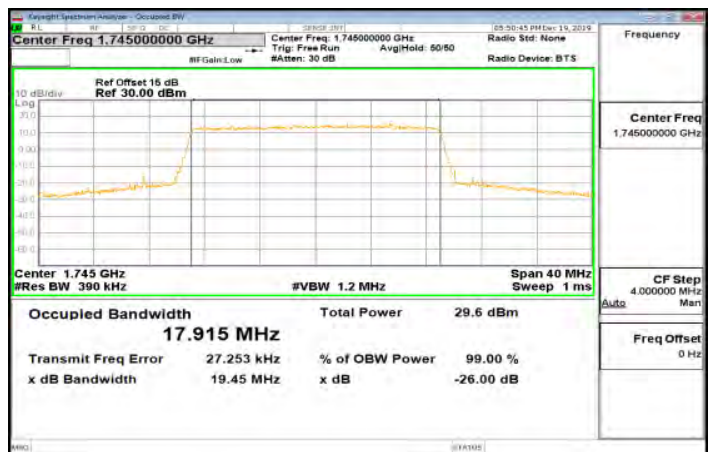
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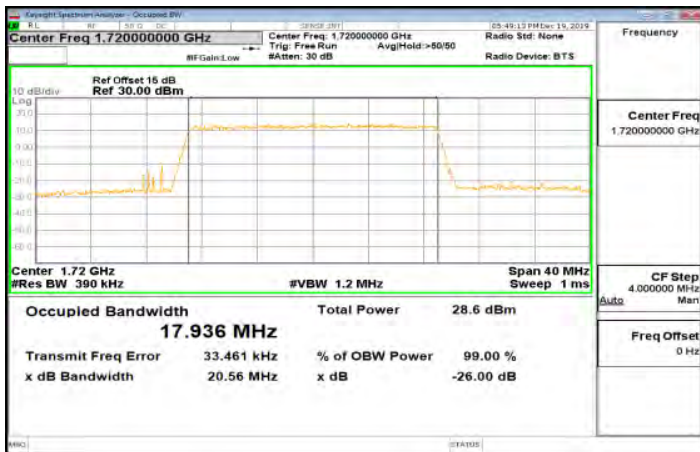


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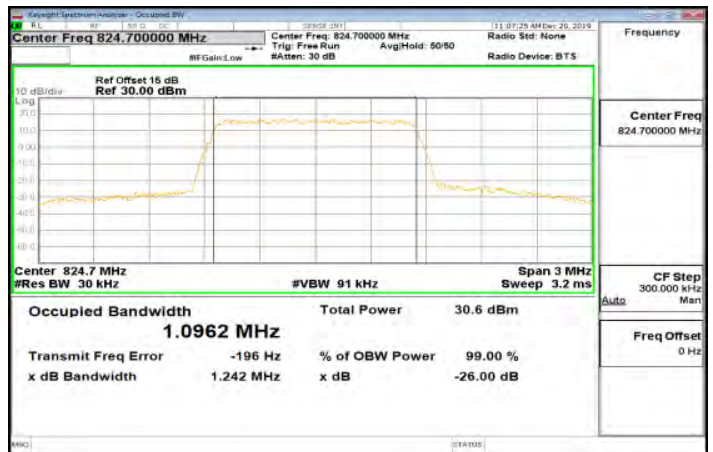
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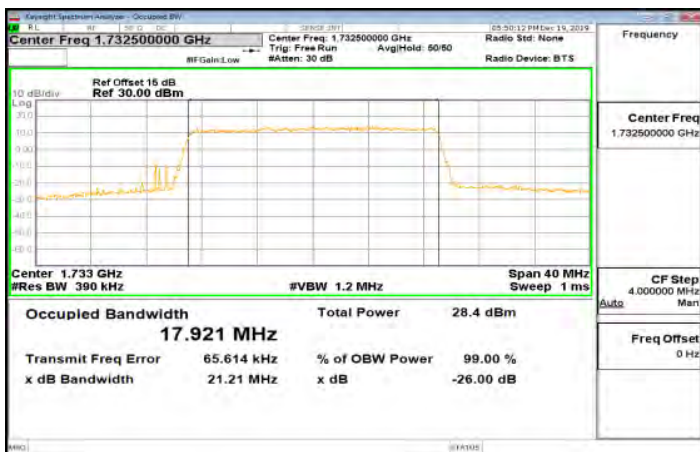
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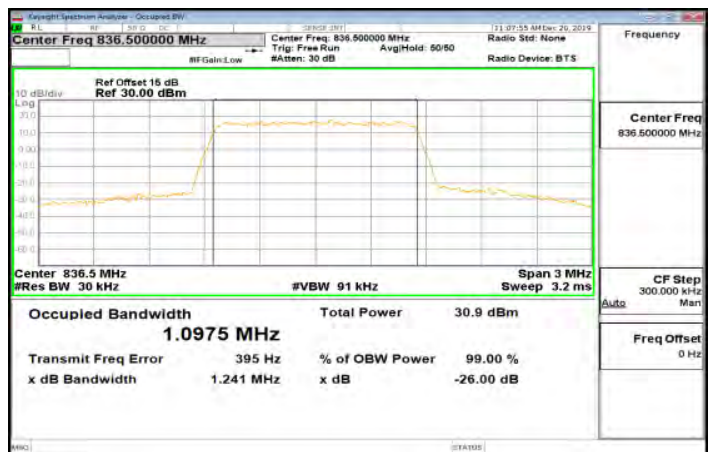
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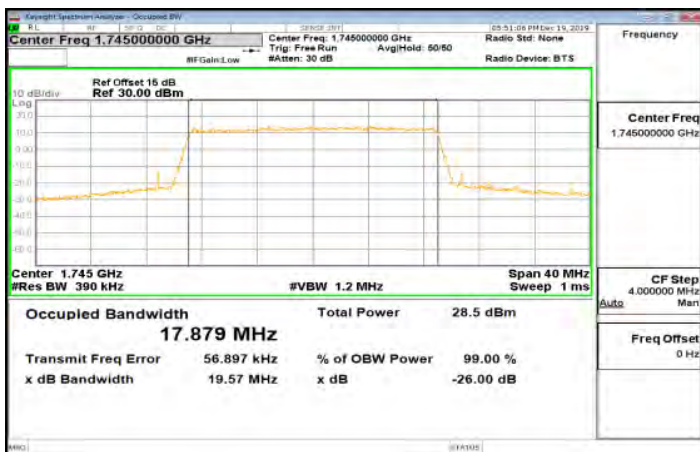
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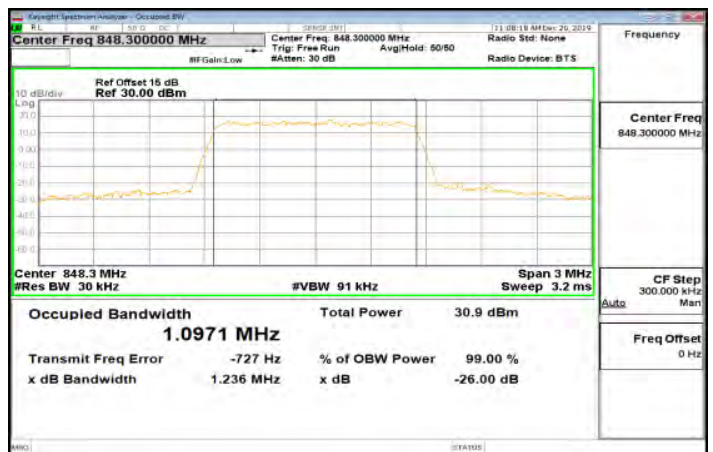
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Band4_20MHz_64QAM_100_0_Main_HighCH20300-1745



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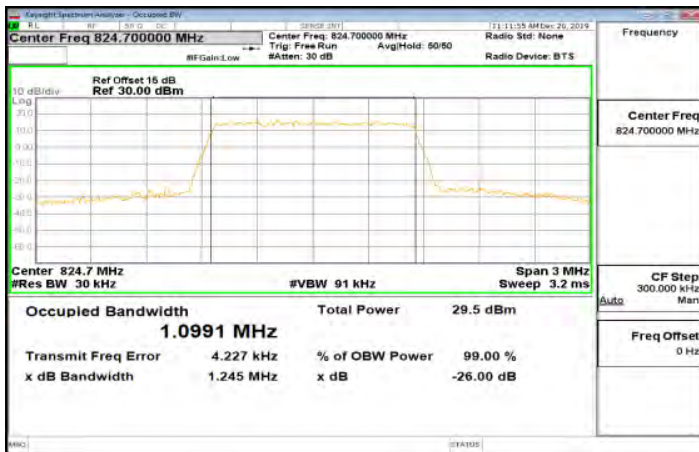


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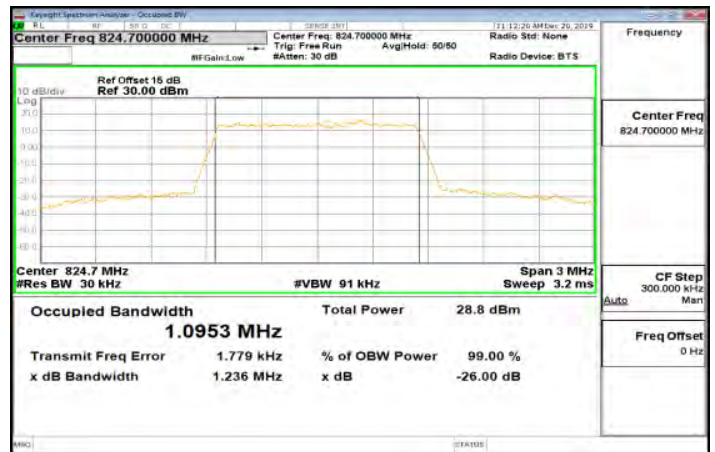
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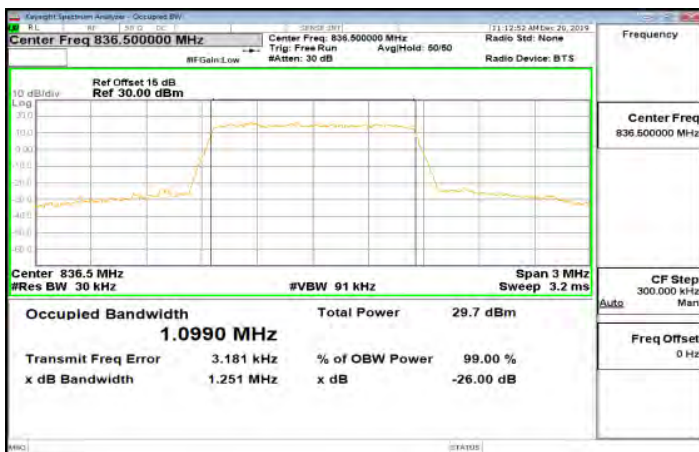
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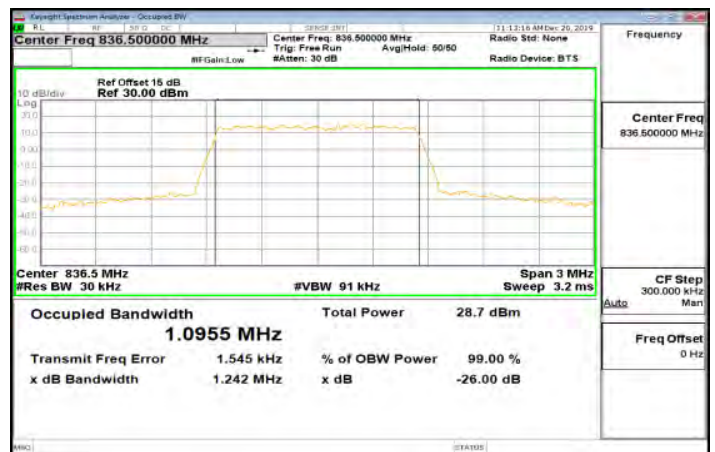
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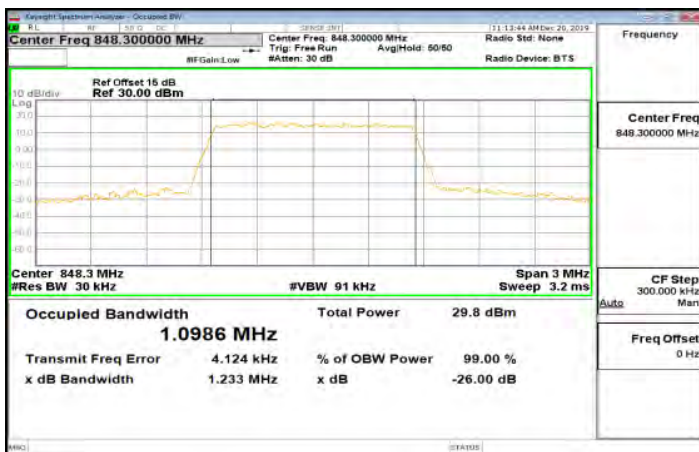
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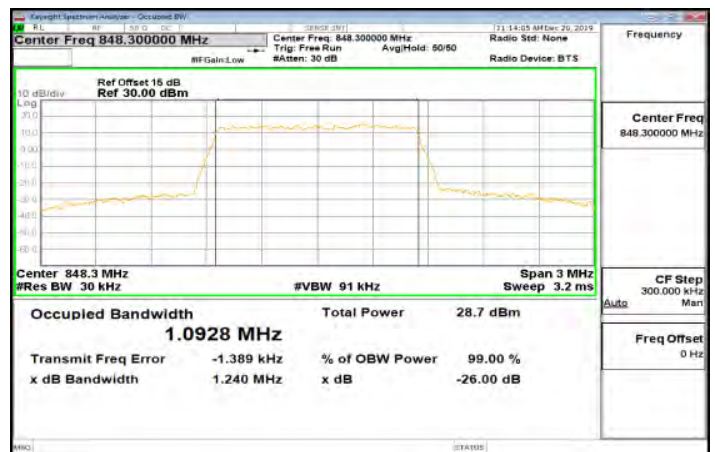
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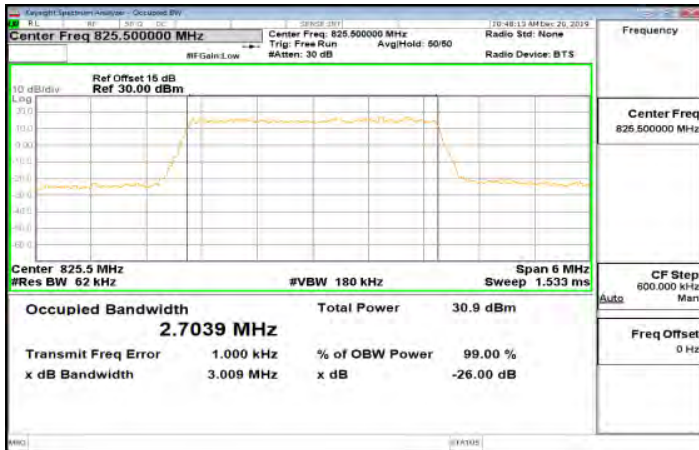


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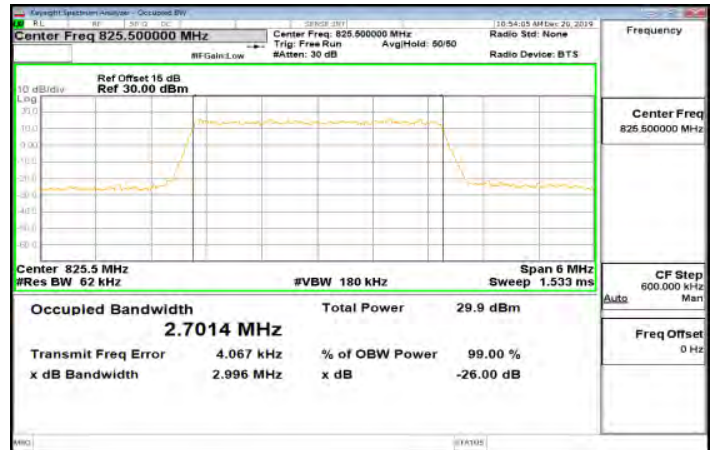
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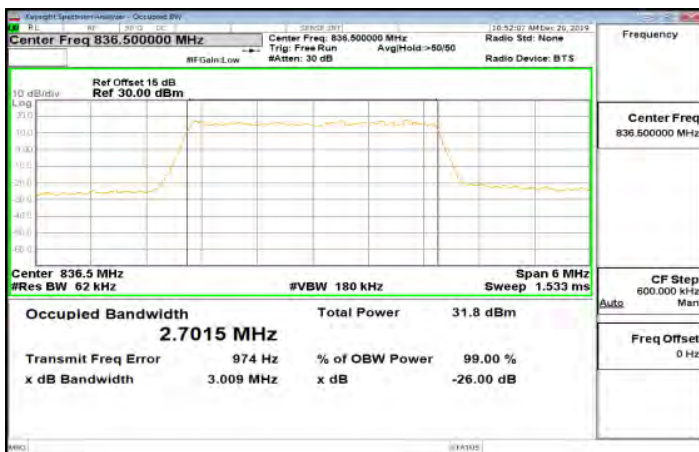
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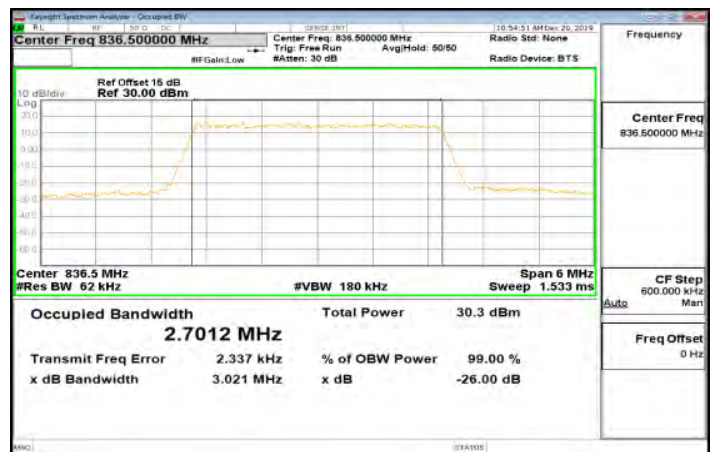
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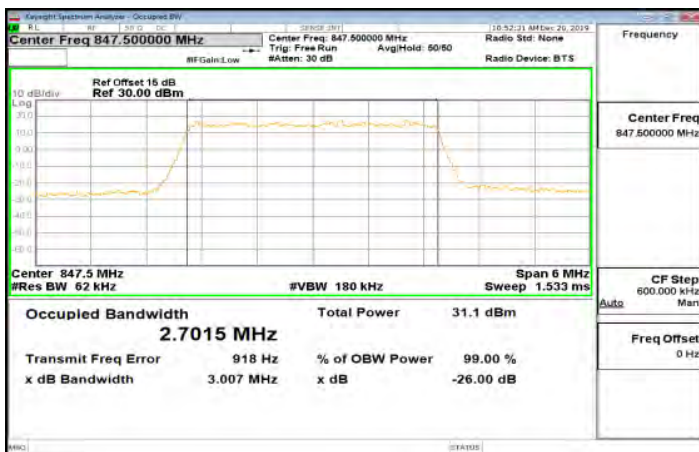
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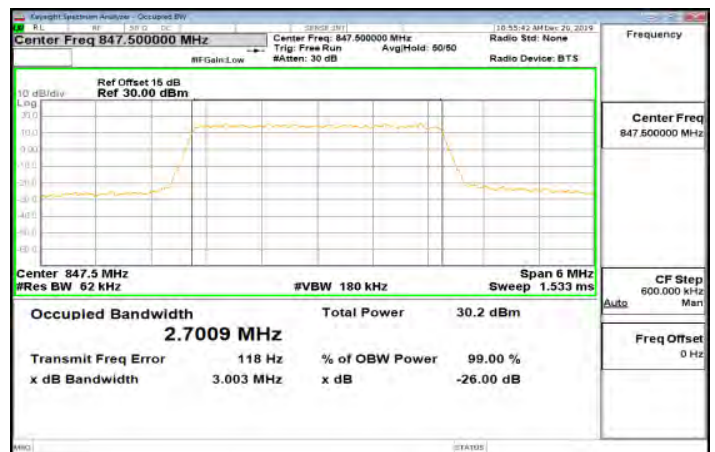
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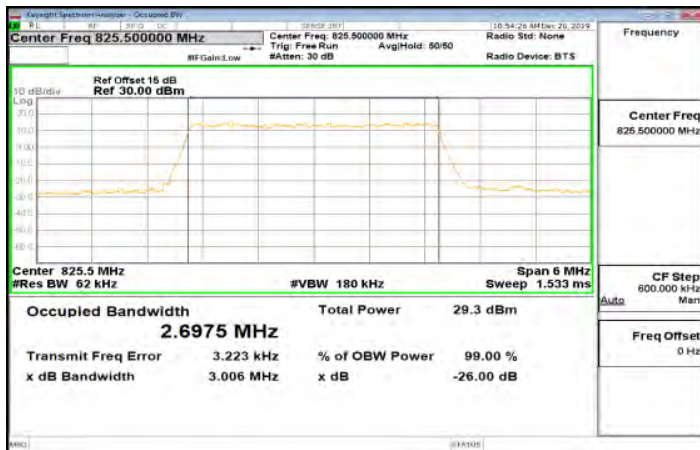


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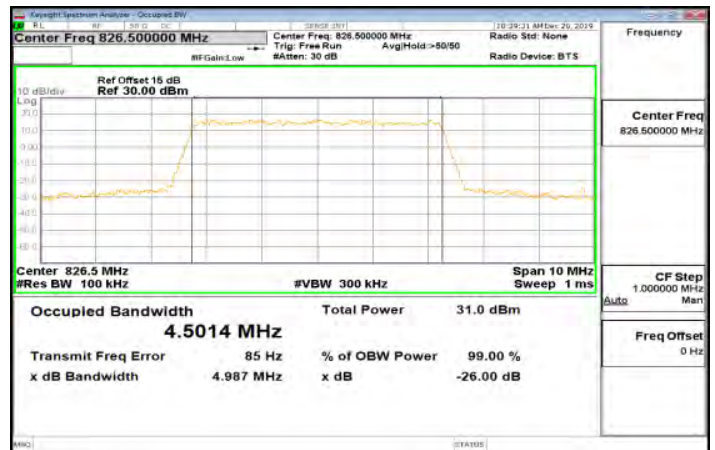
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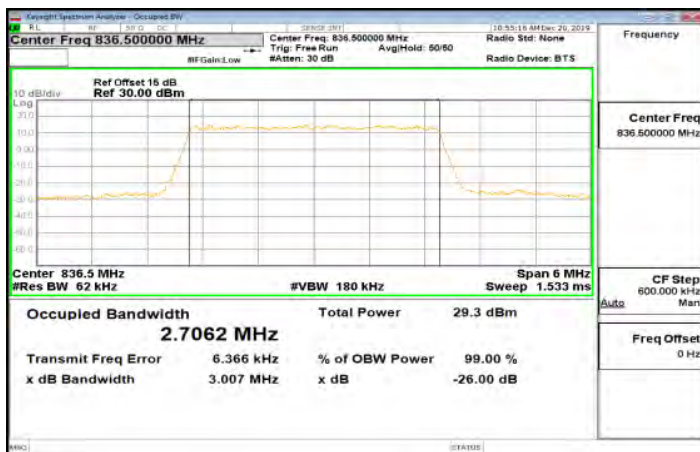
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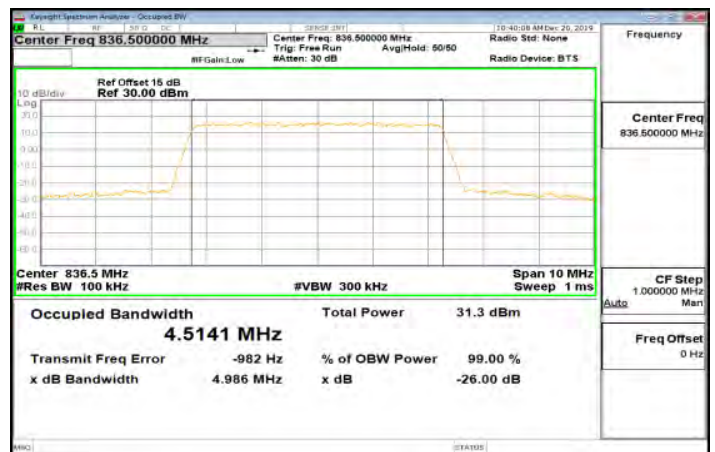
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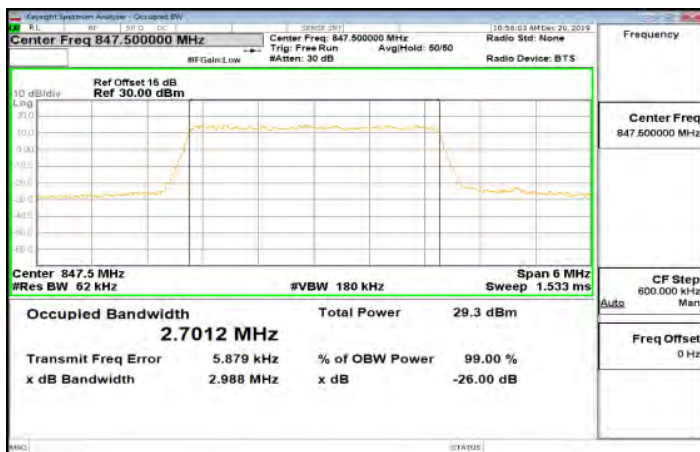
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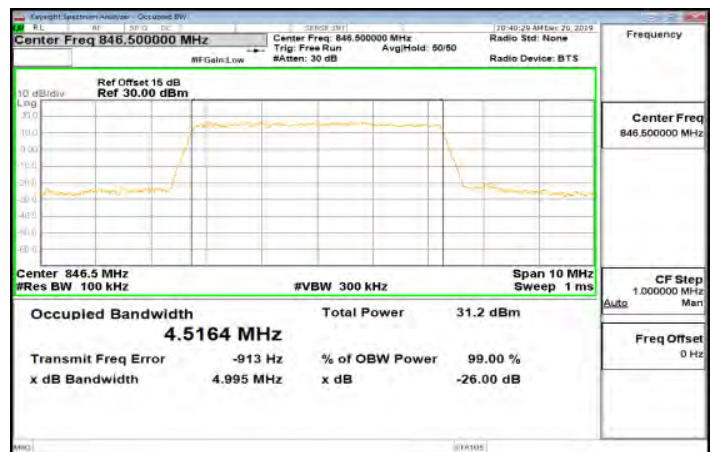
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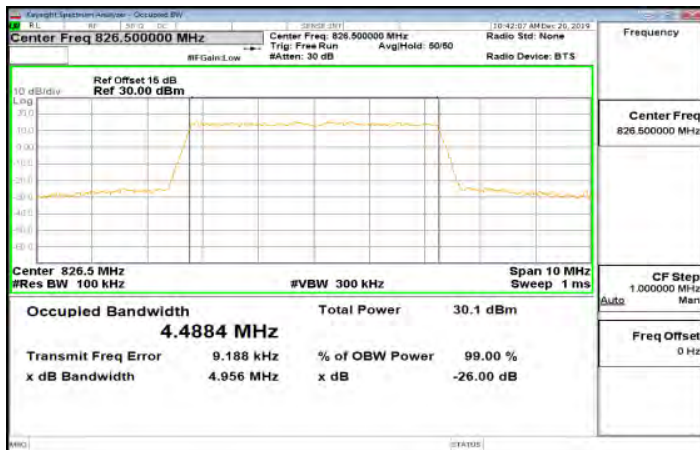


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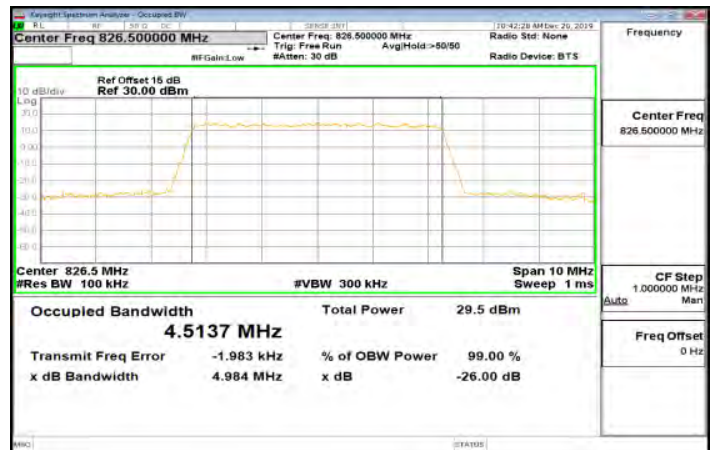
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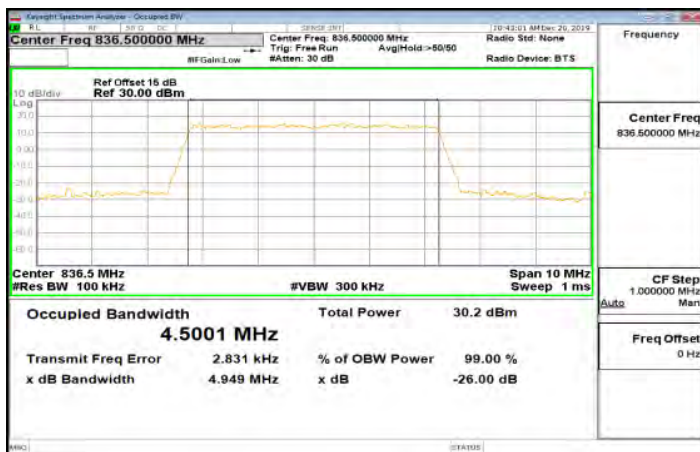
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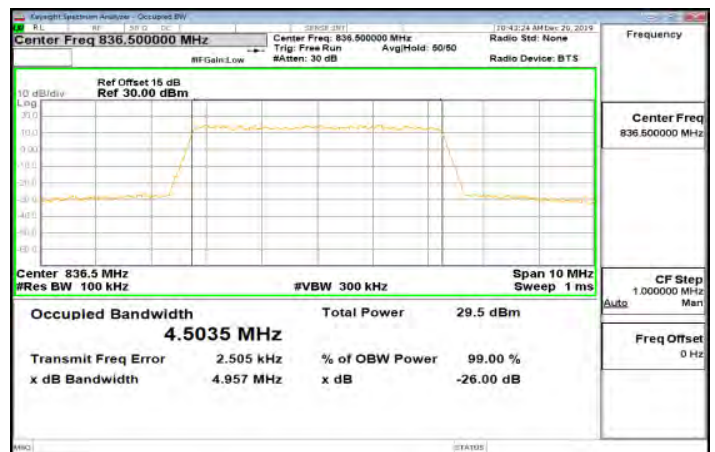
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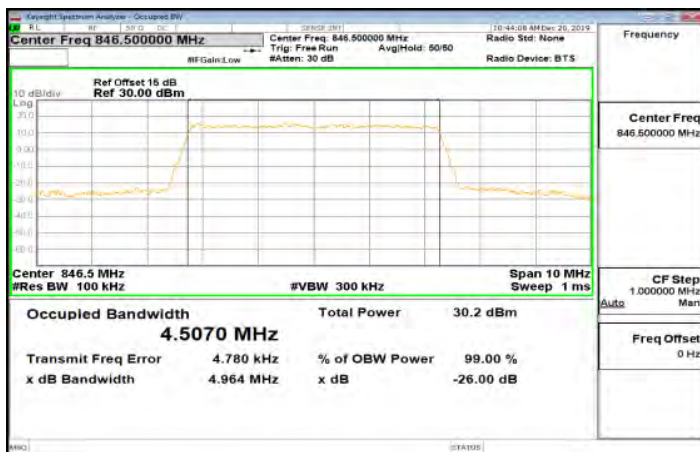
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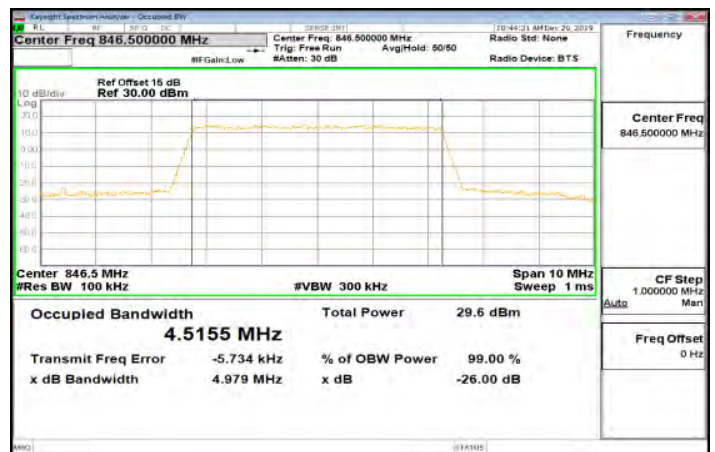
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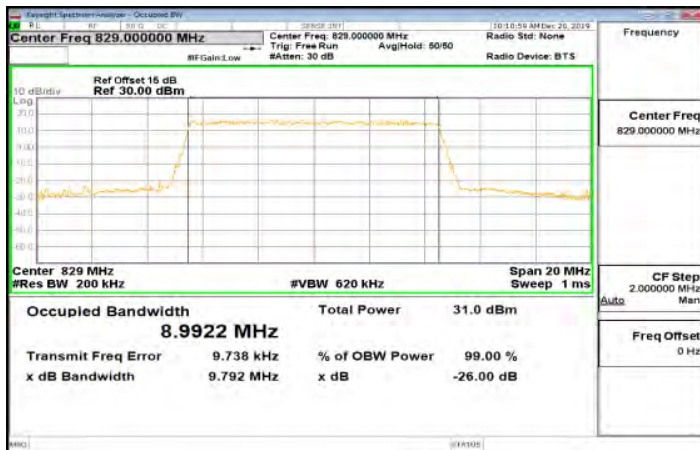


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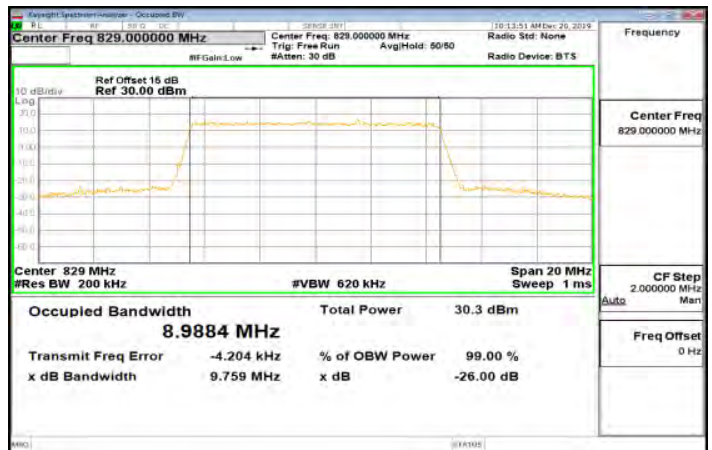
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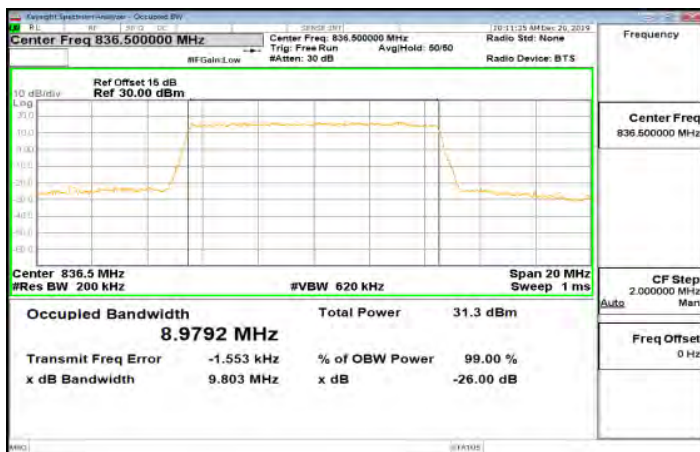
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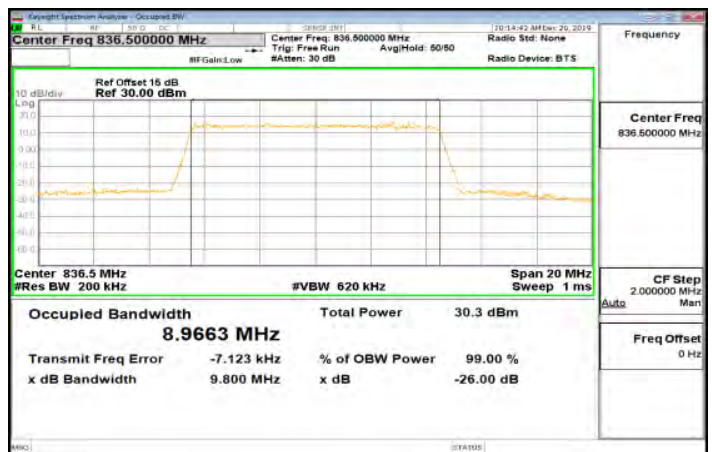
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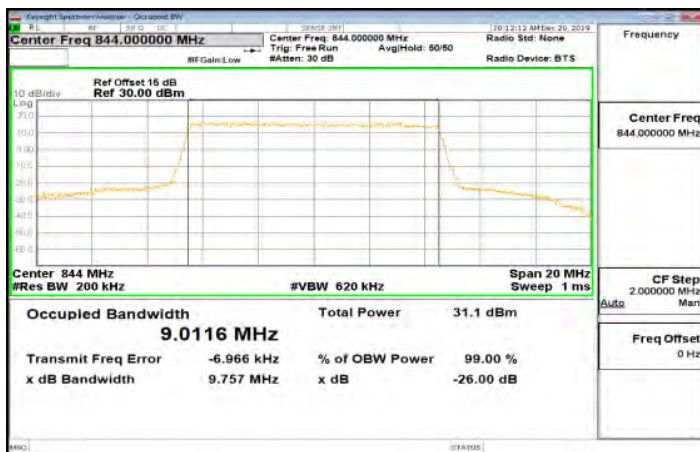
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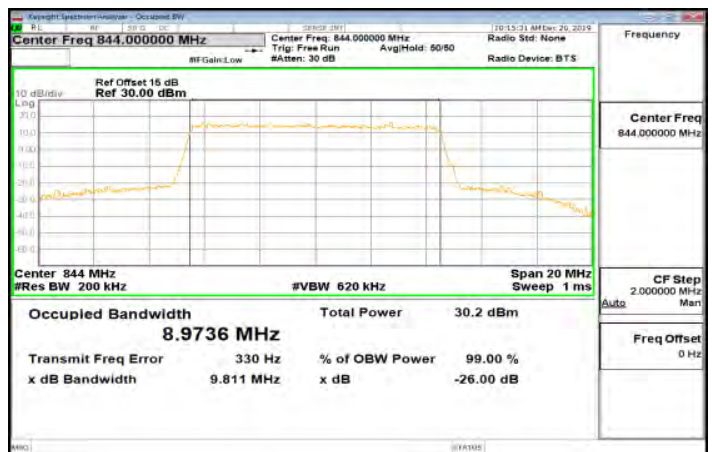
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Band5_10MHz_QPSK_50_0_Main_HighCH20600-844



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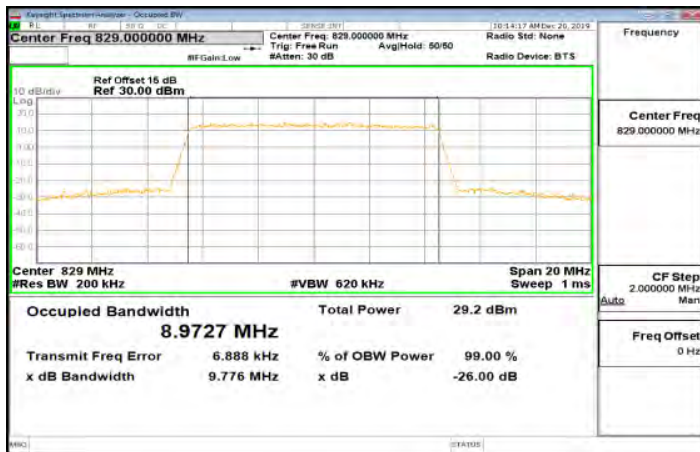


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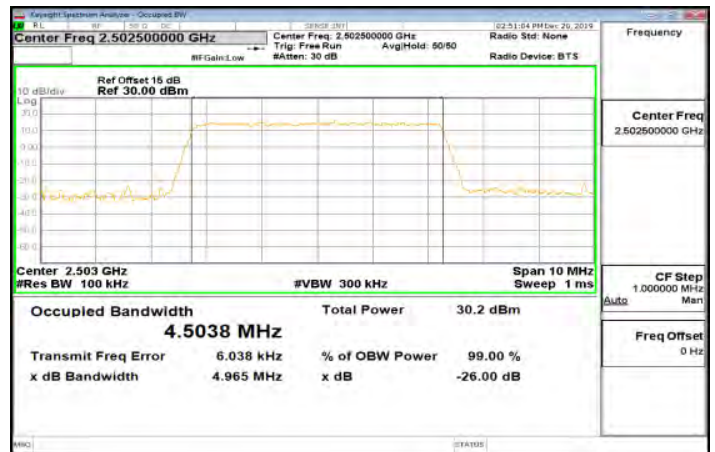
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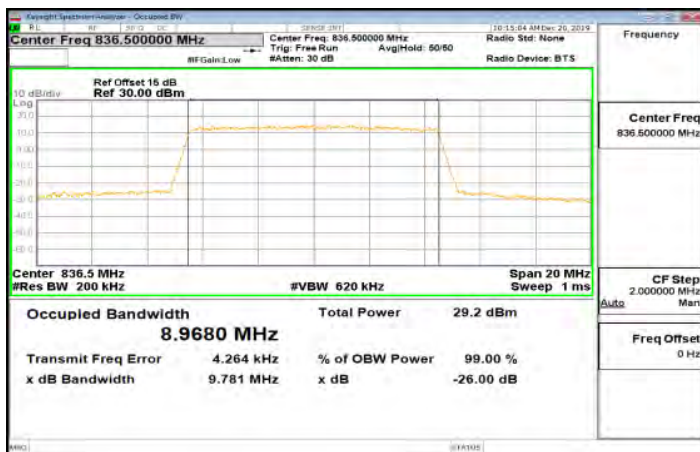
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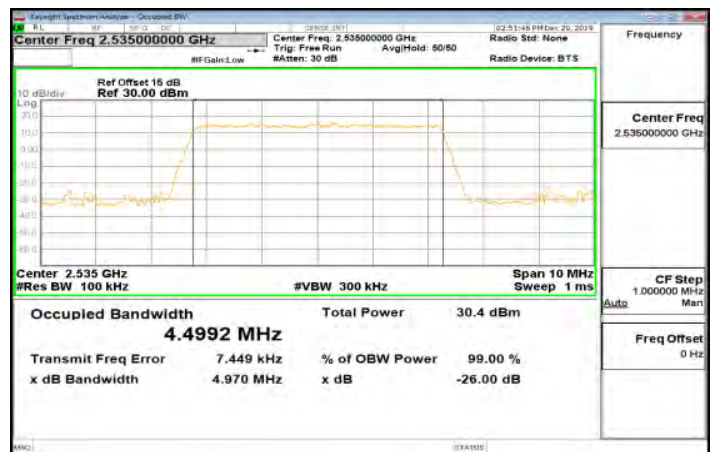
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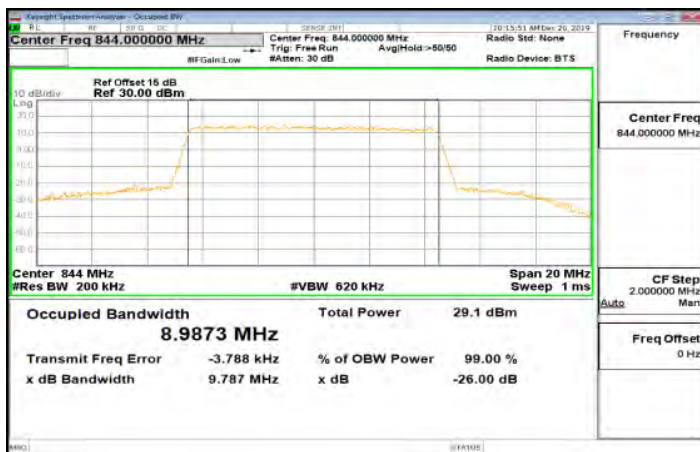
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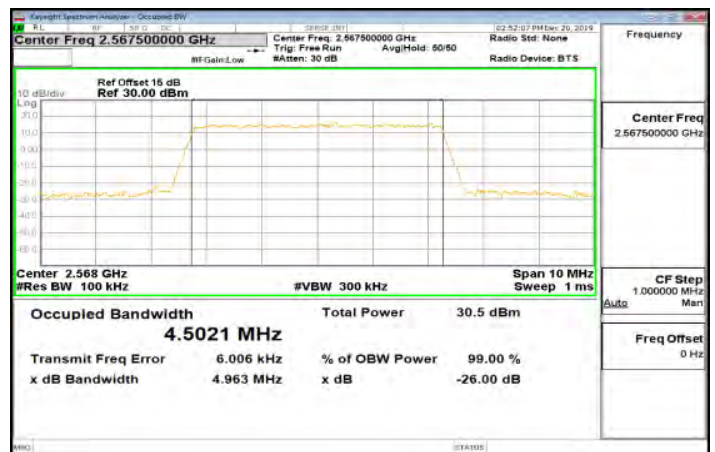
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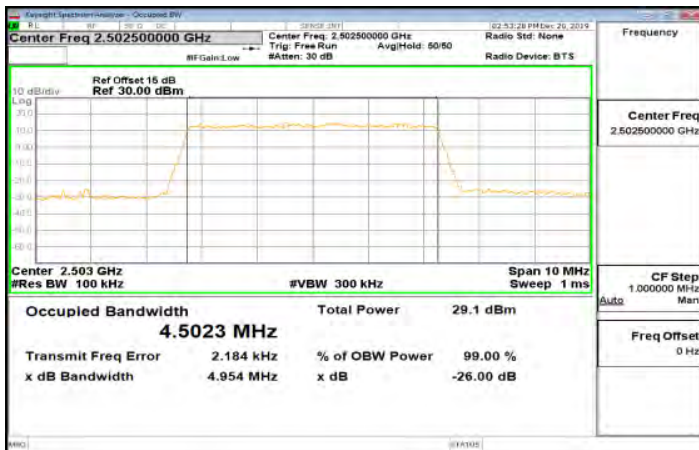


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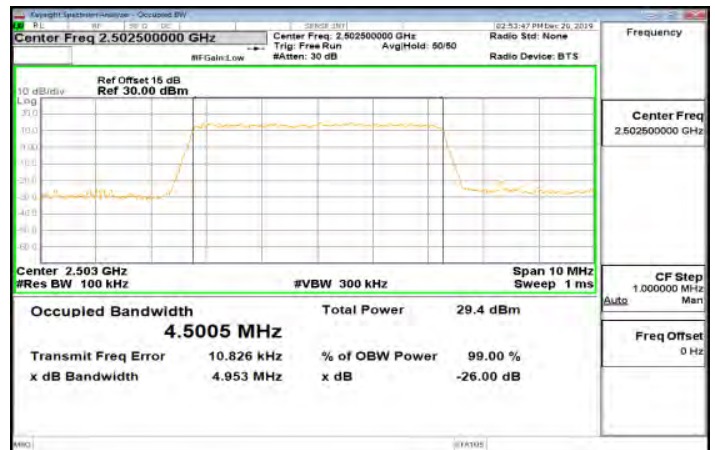
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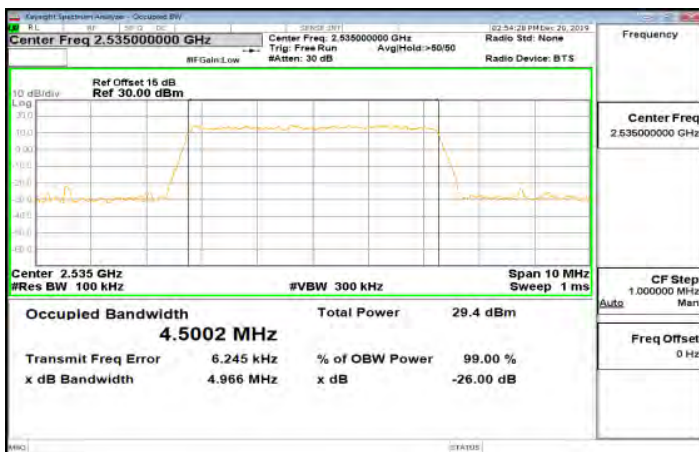
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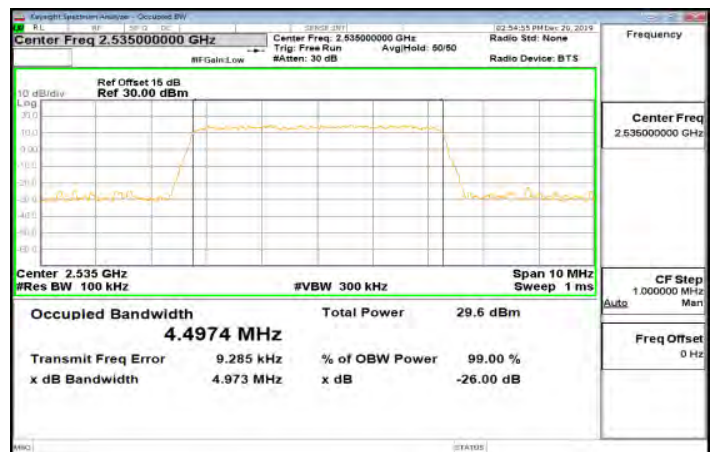
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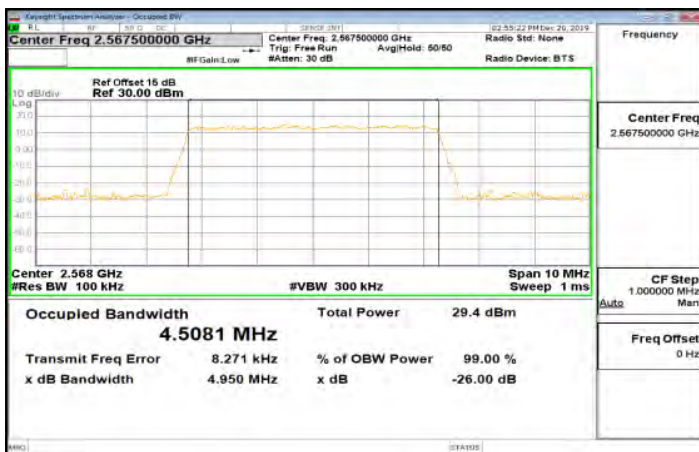
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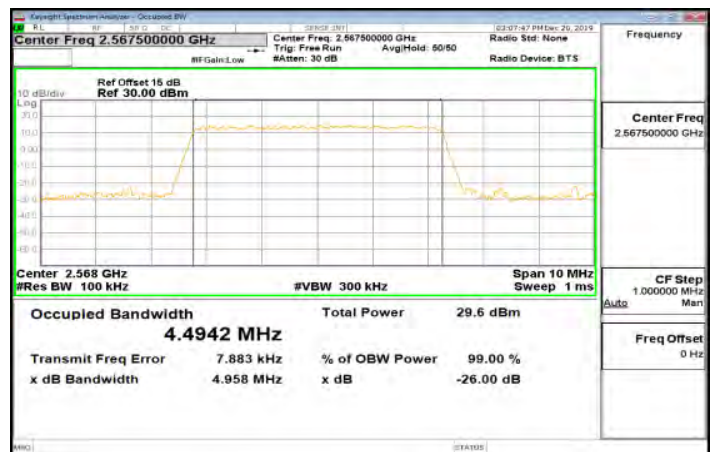
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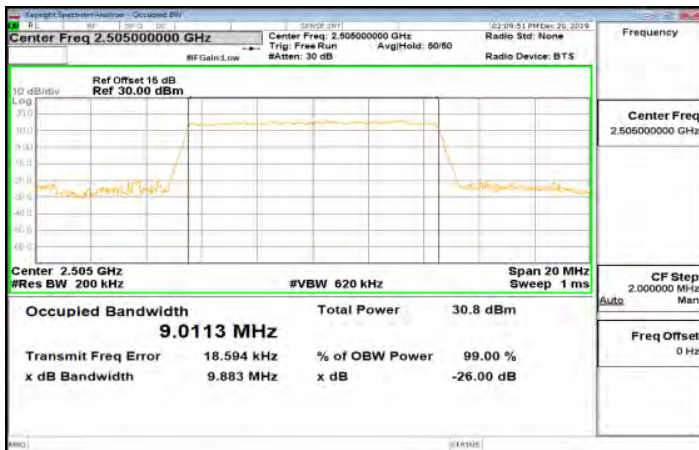


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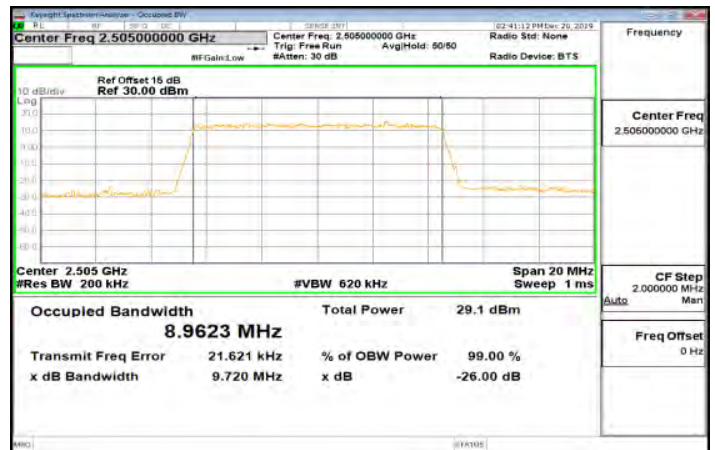
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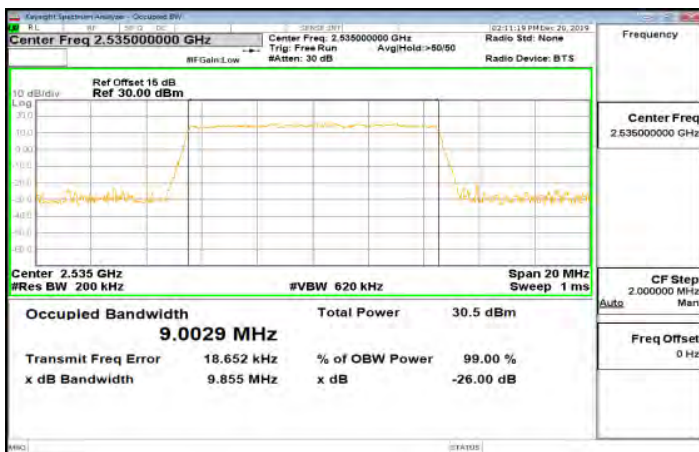
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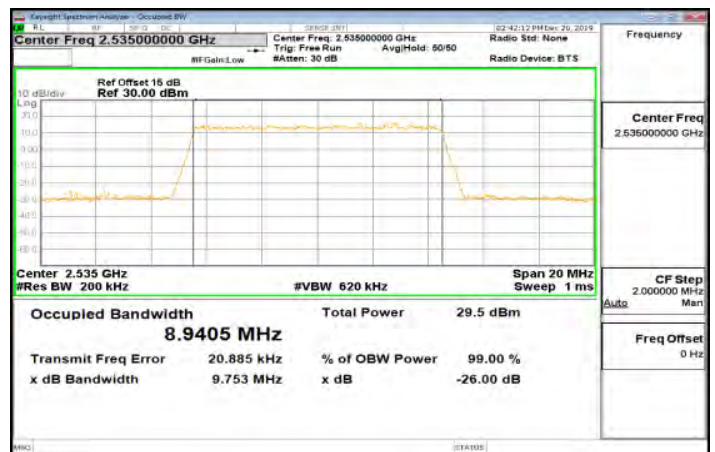
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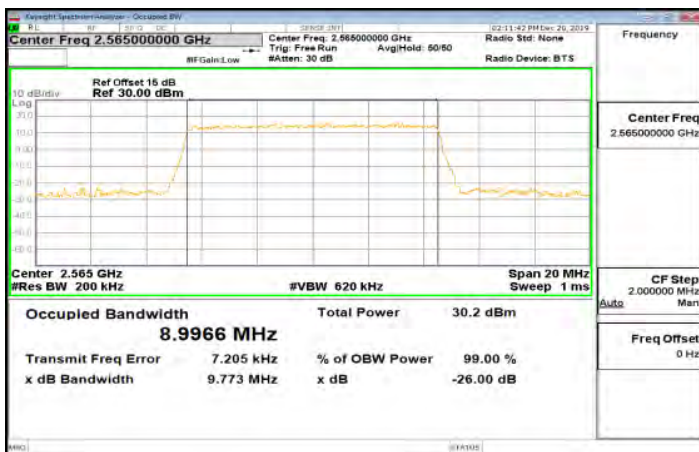
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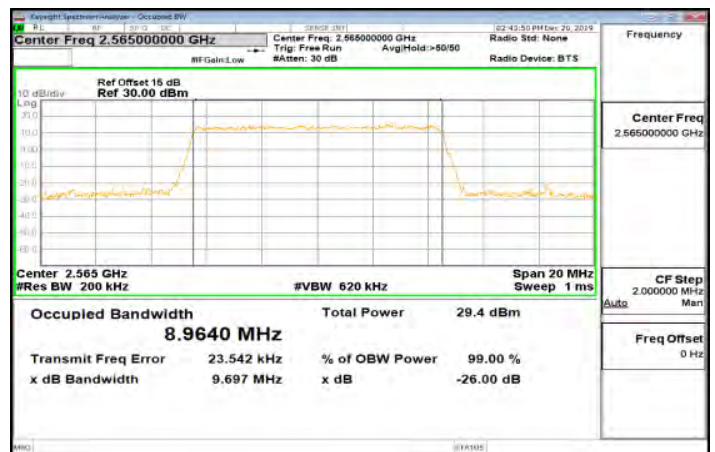
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Band7_10MHz_QPSK_50_0_Main_HighCH21400-2565



Band7_10MHz_16QAM_50_0_Main_HighCH21400-2565



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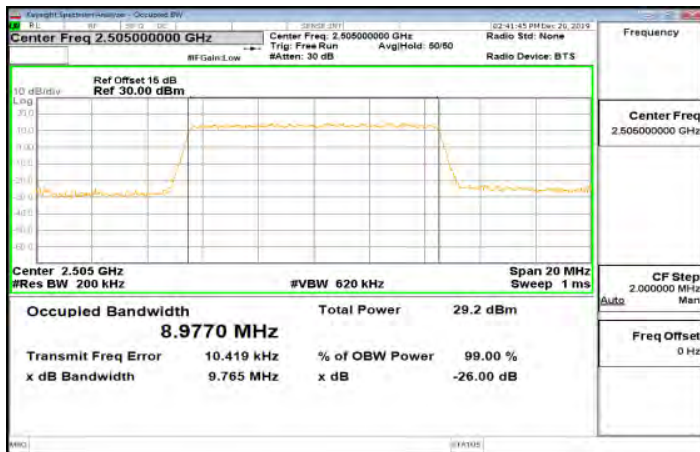
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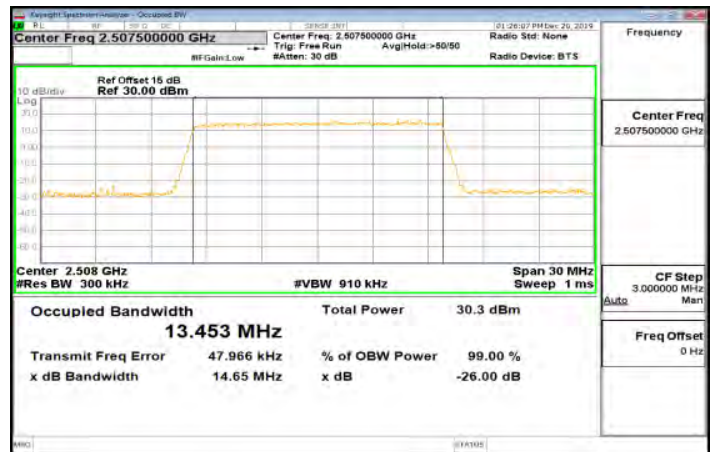
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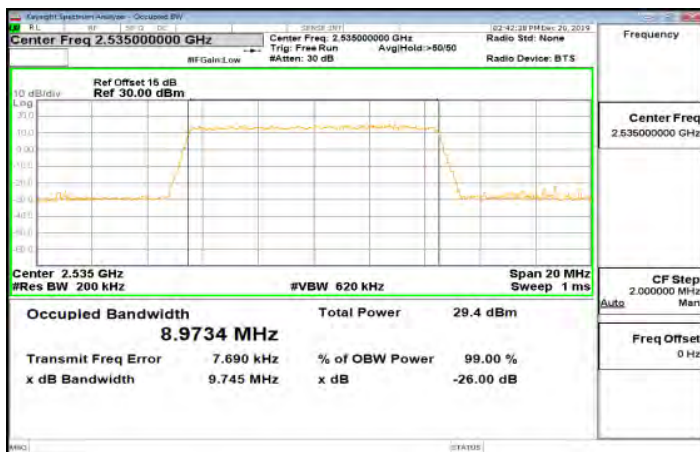
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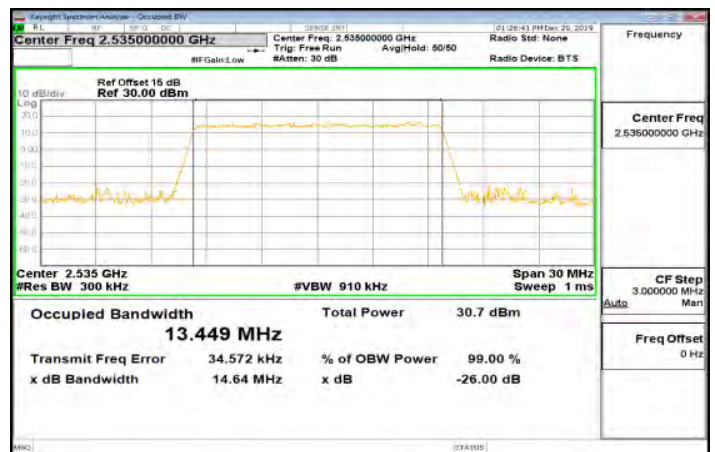
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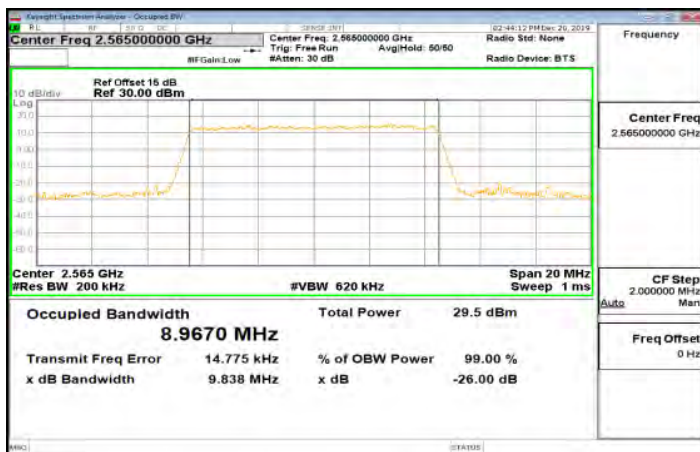
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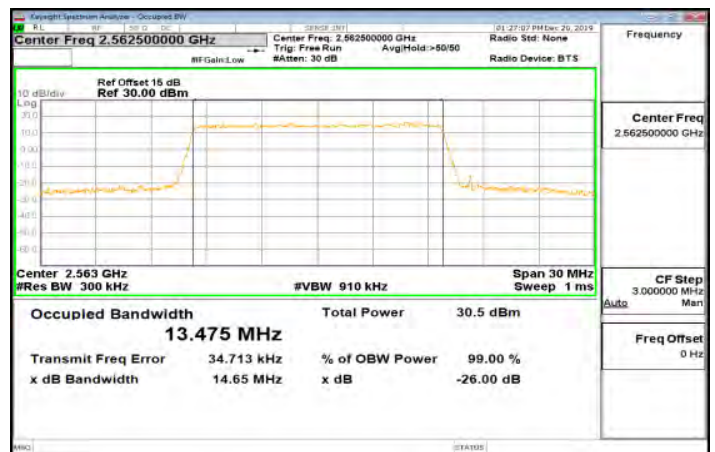
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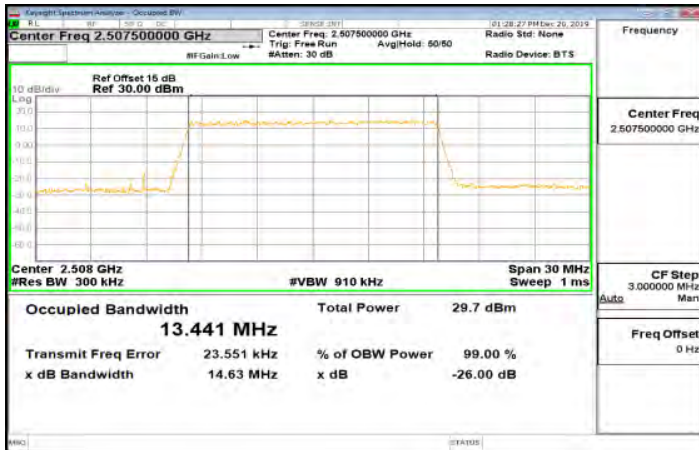


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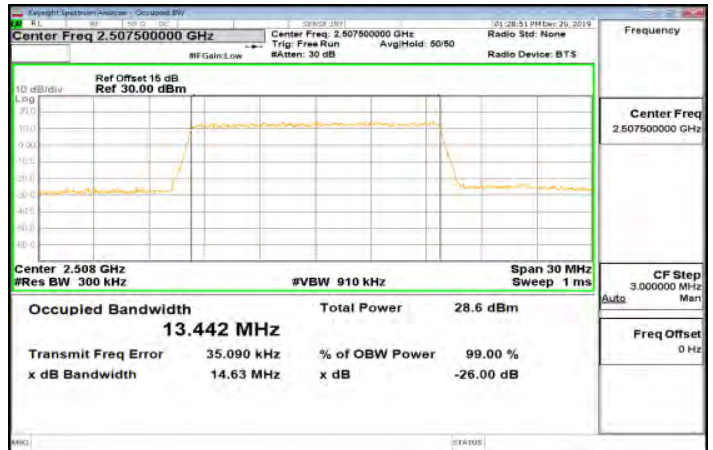
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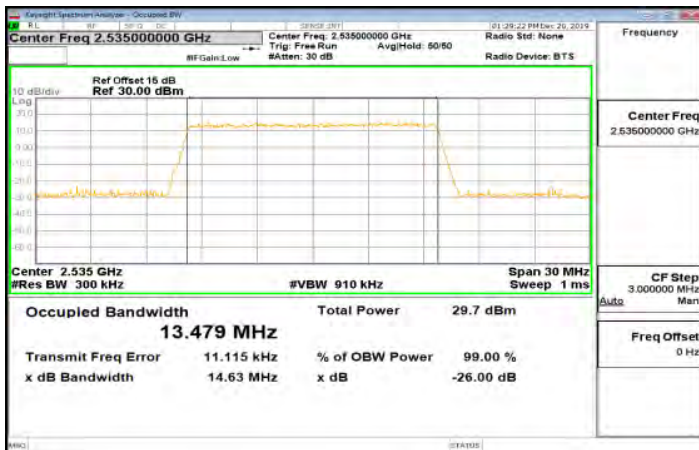
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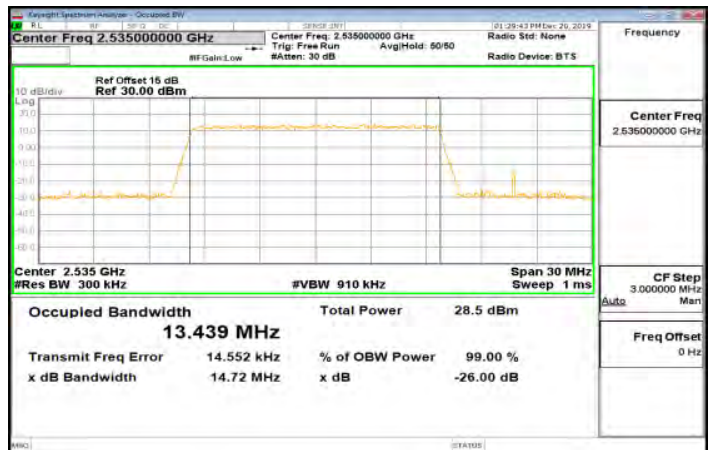
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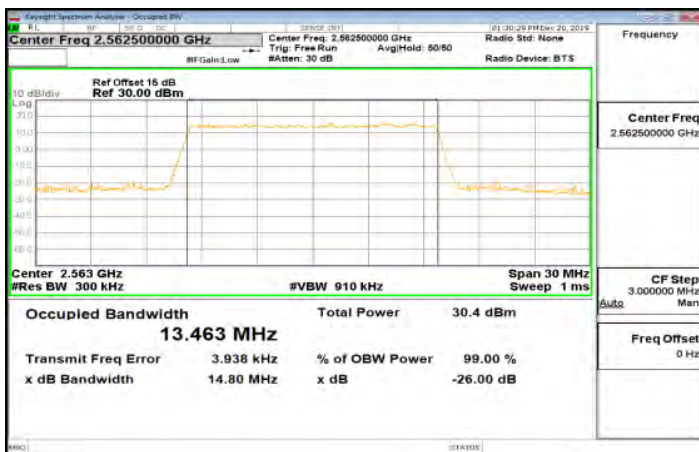
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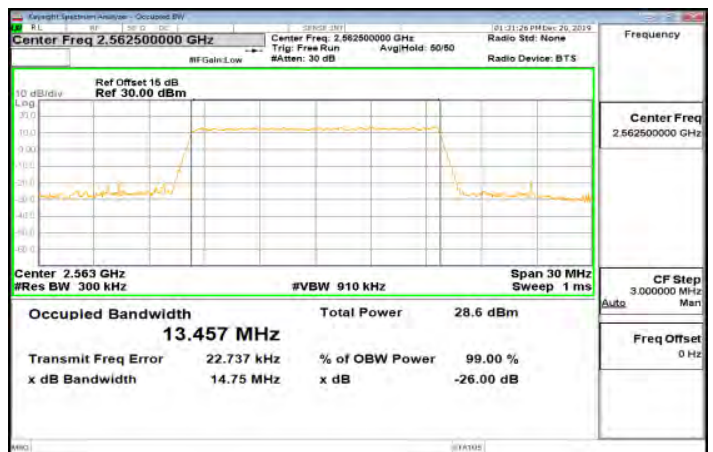
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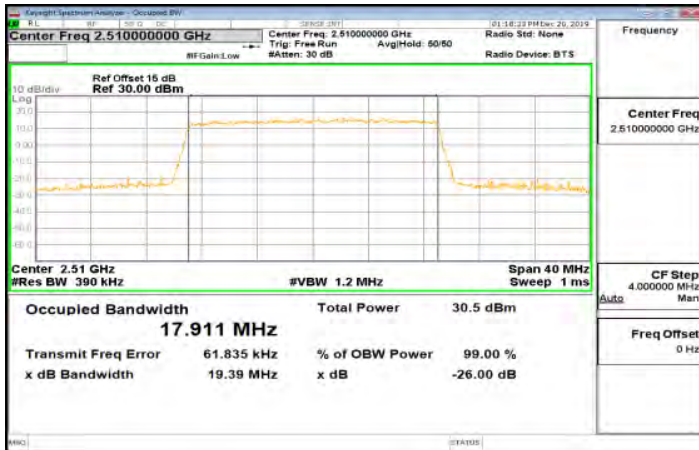


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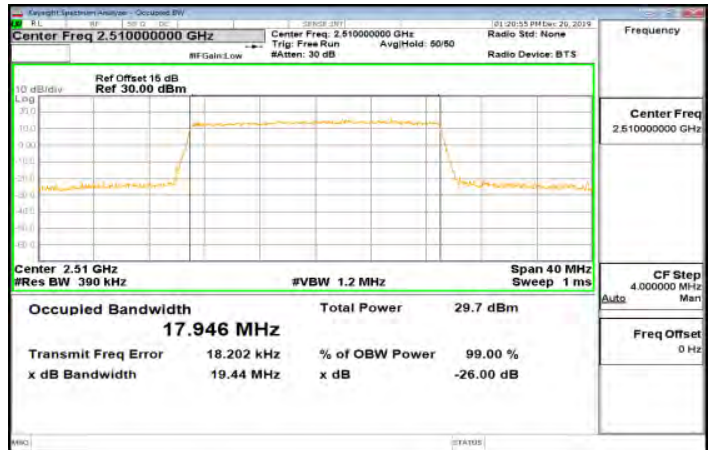
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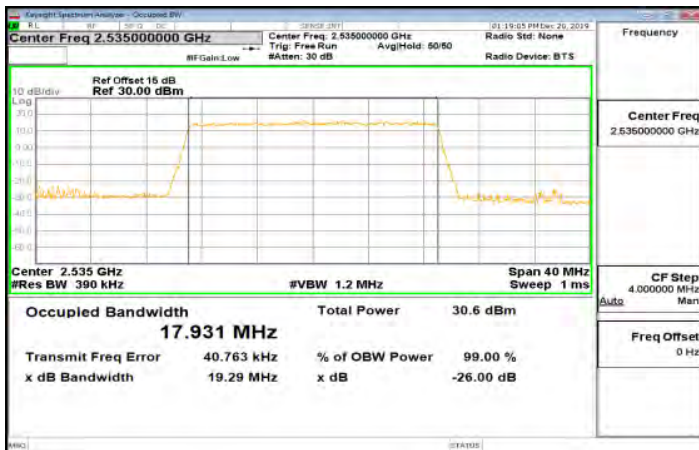
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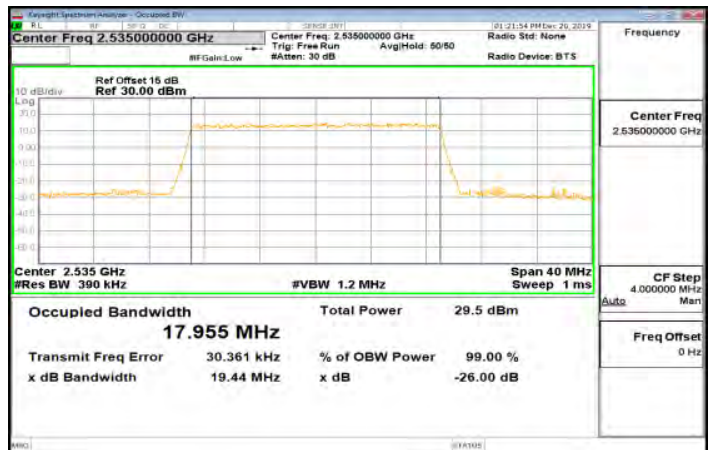
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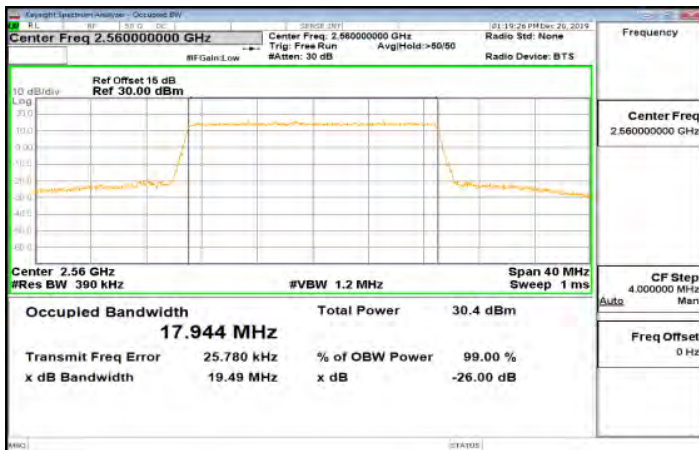
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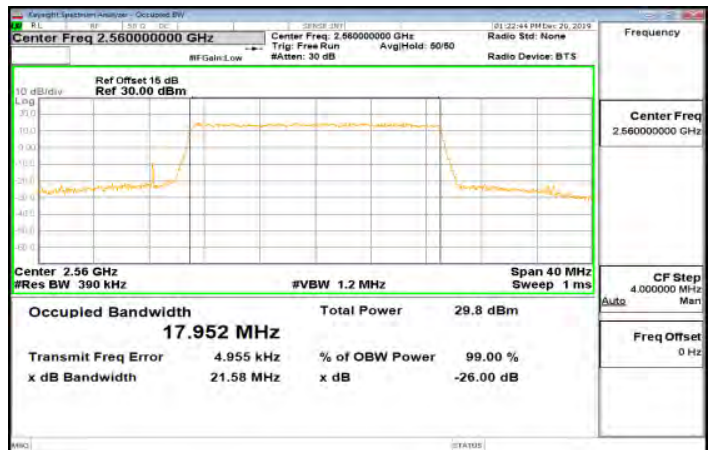
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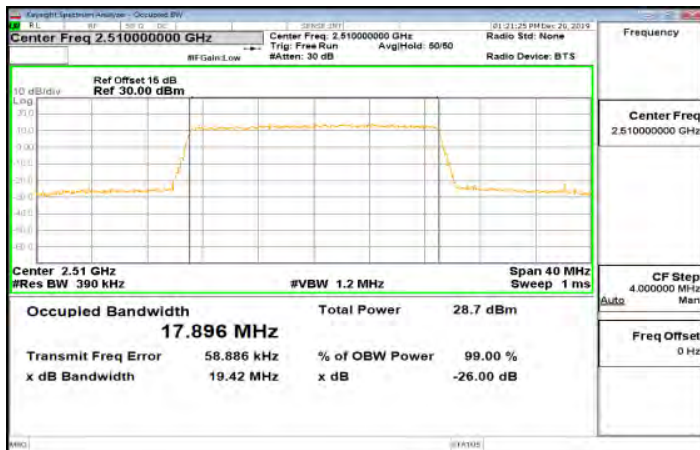


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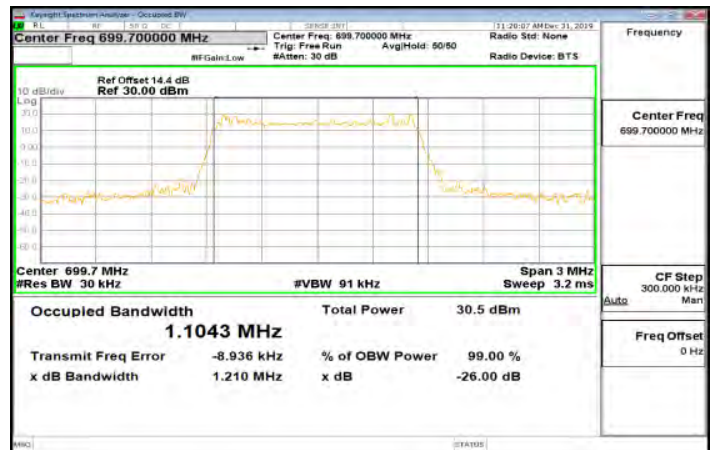
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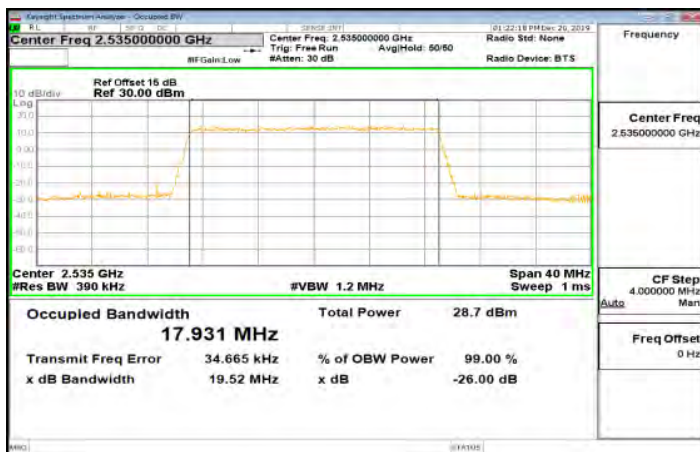
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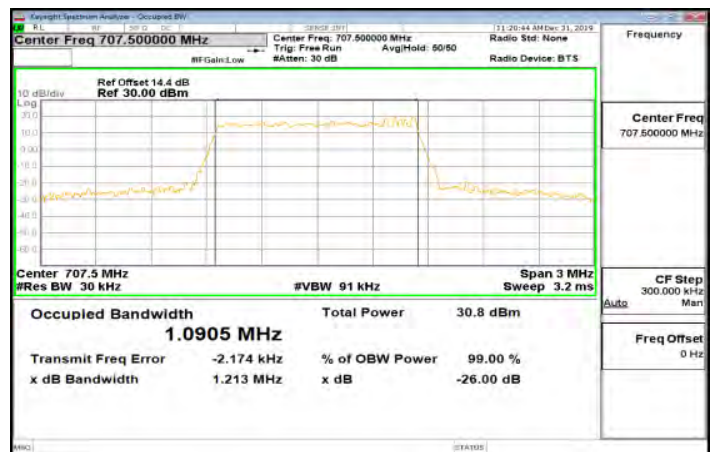
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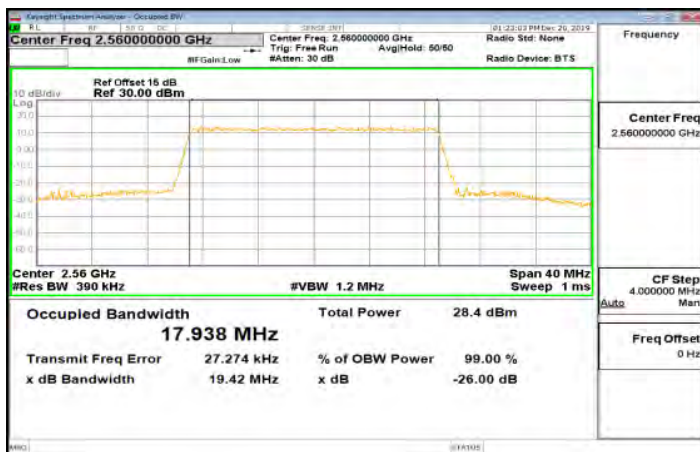
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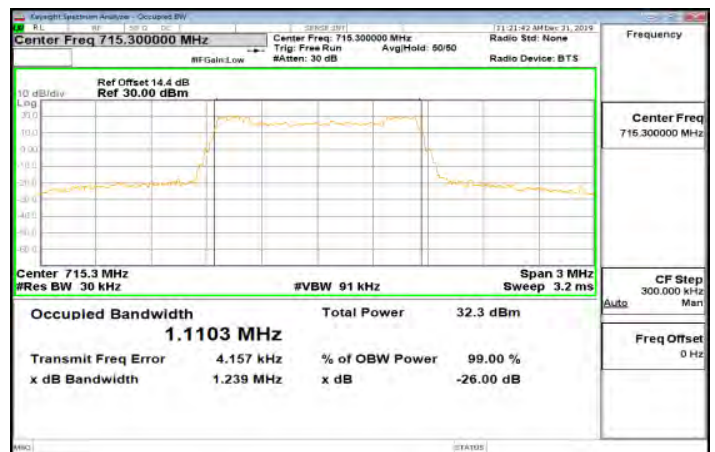
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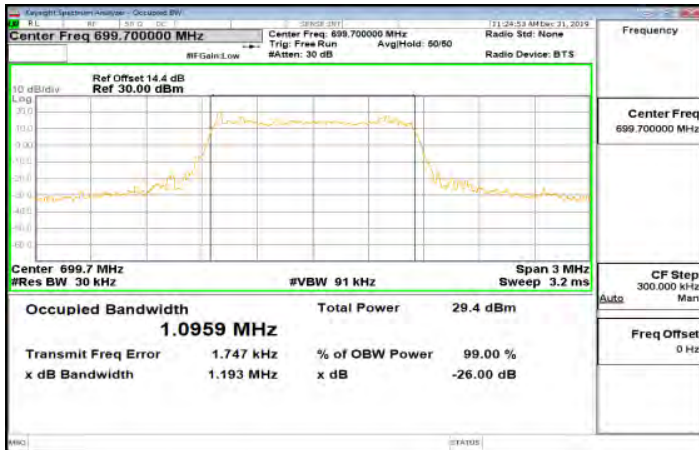


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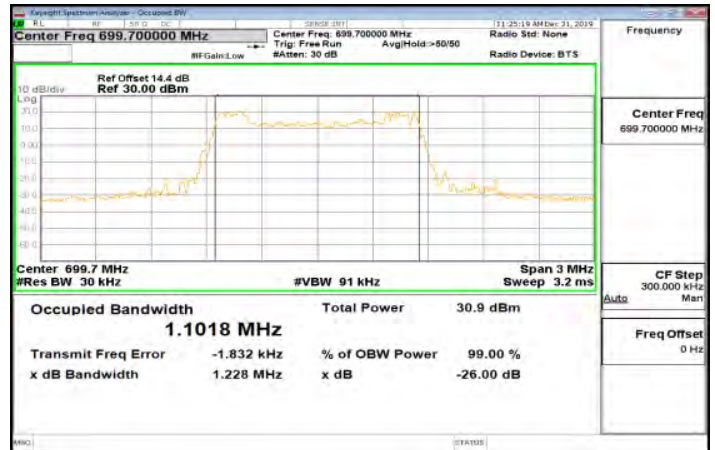
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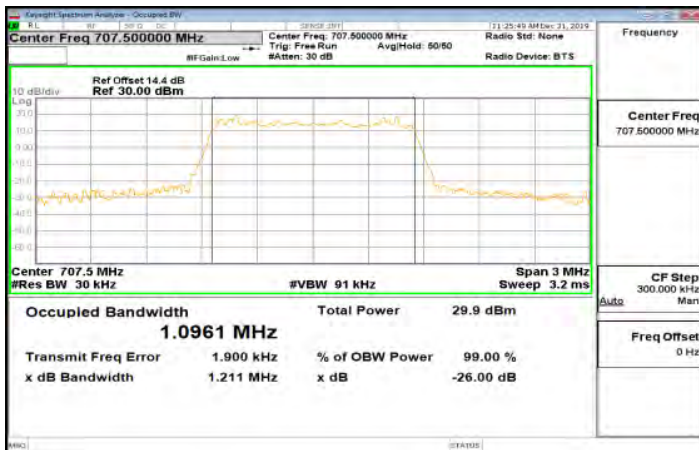
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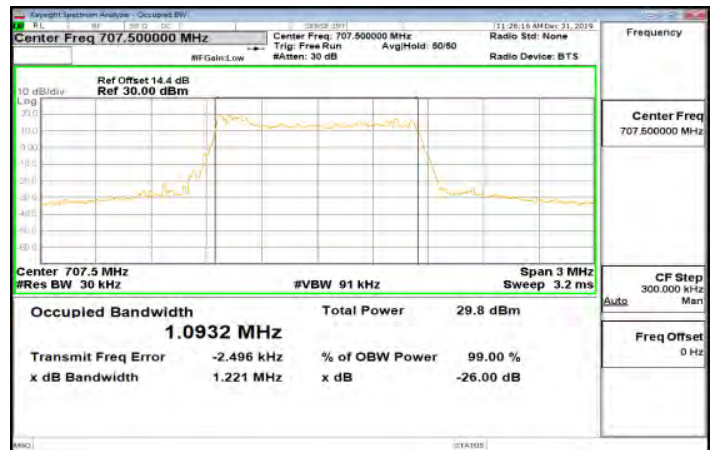
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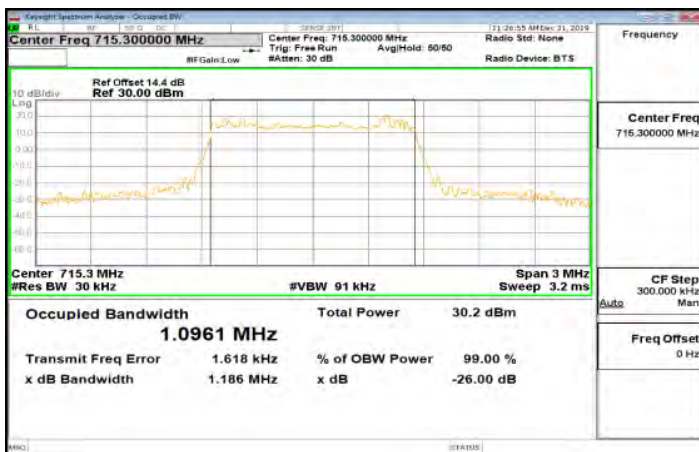
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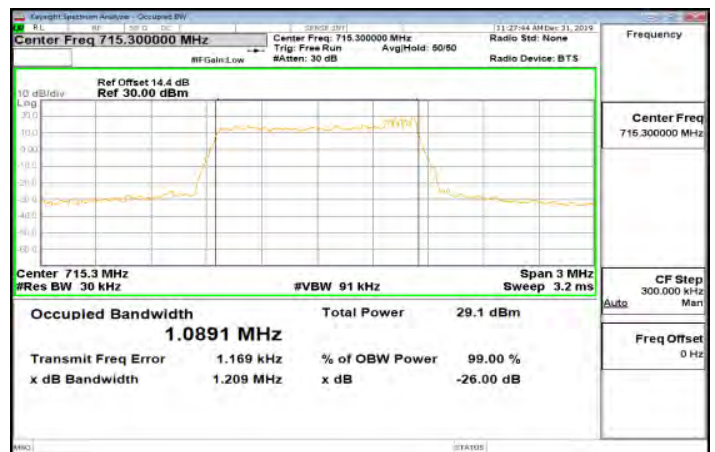
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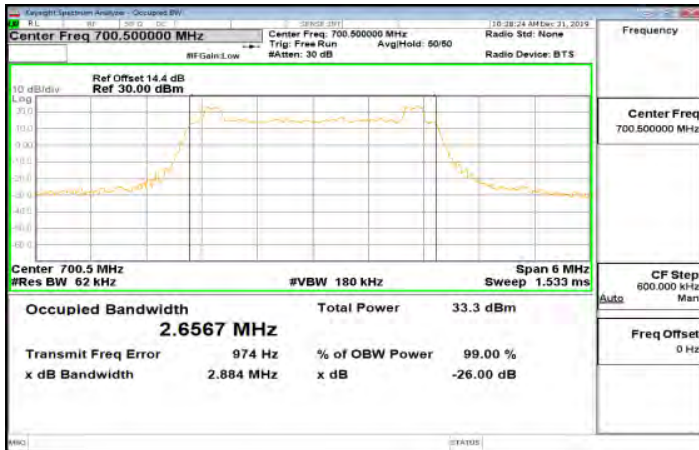


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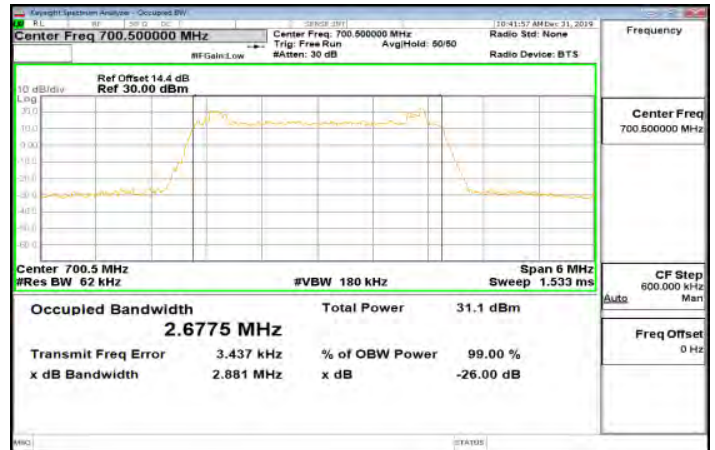
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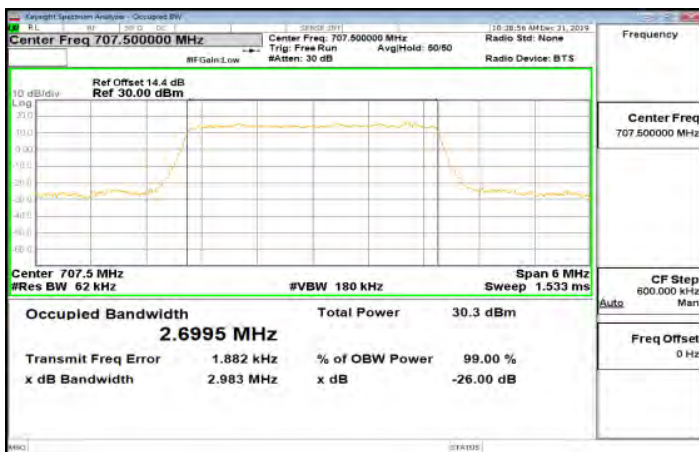
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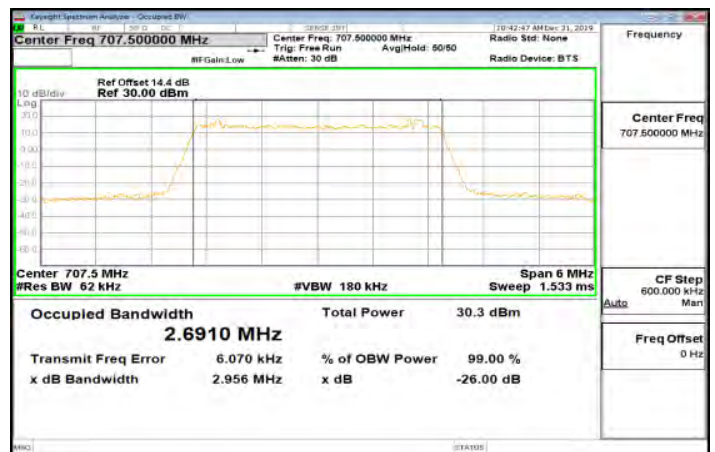
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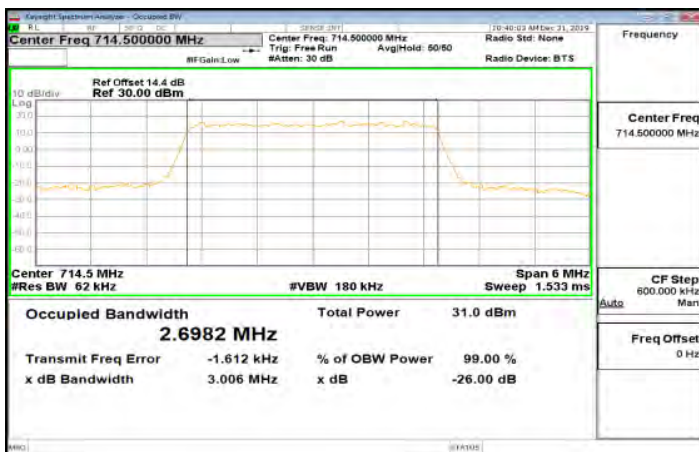
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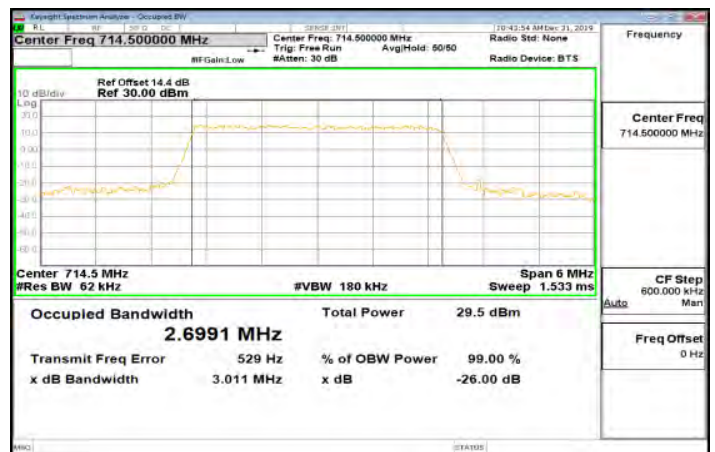
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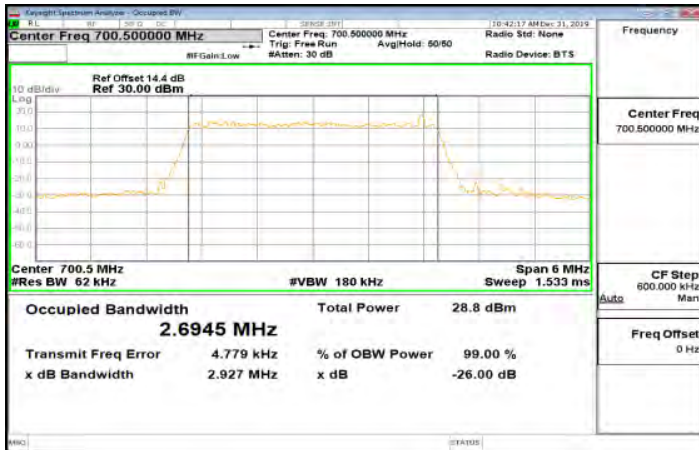


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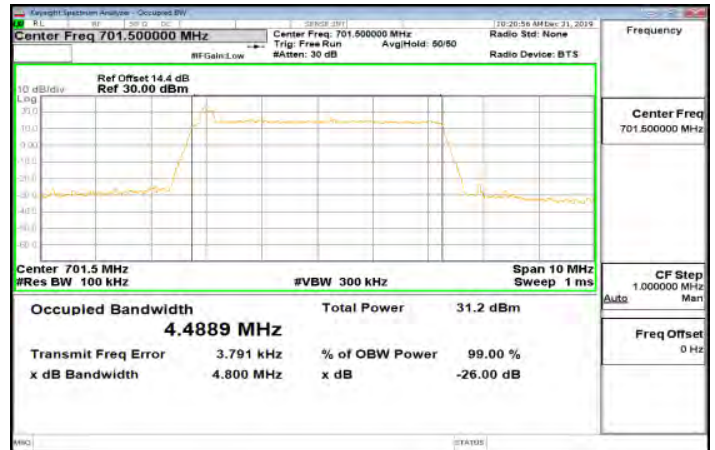
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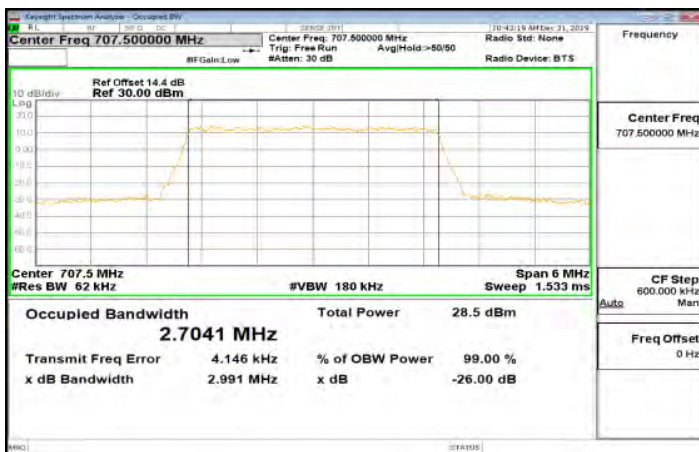
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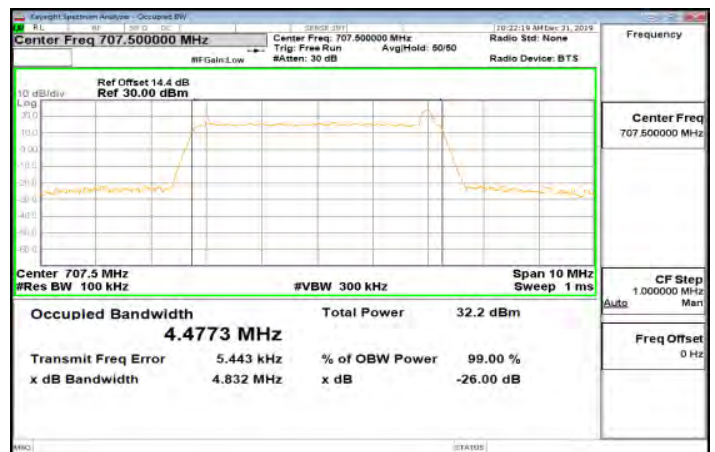
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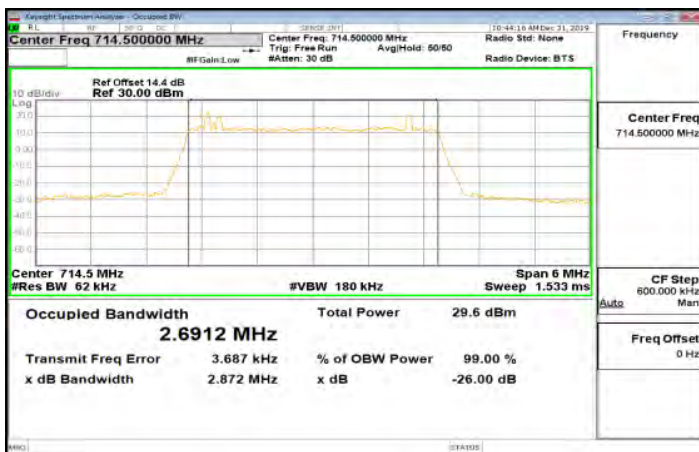
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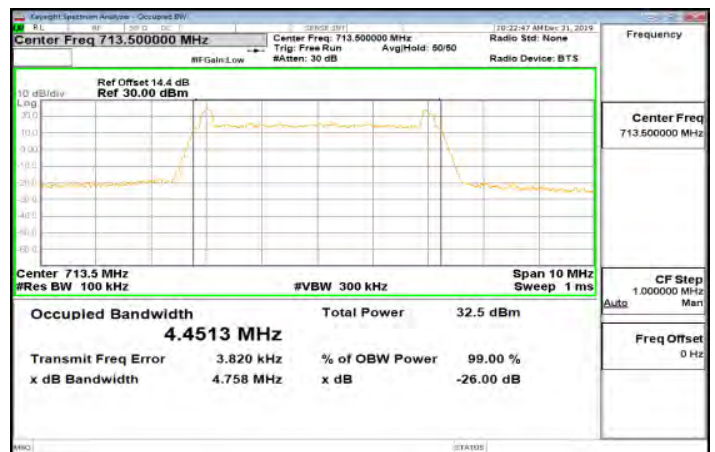
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Band12_3MHz_64QAM_15_0_Main_HighCH23165-714.5



Band12_5MHz_QPSK_25_0_Main_HighCH23155-713.5



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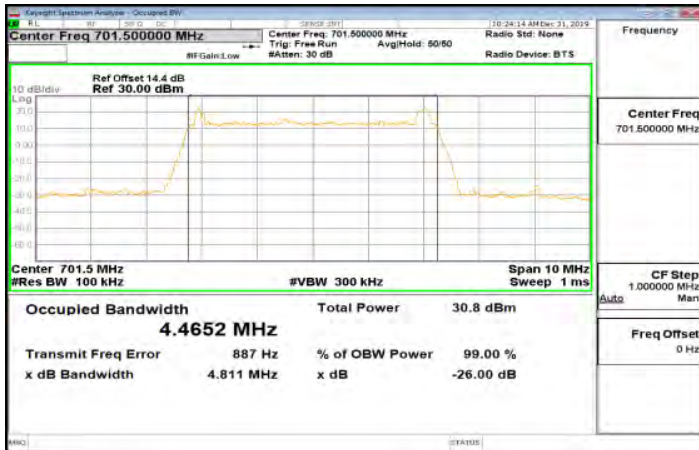
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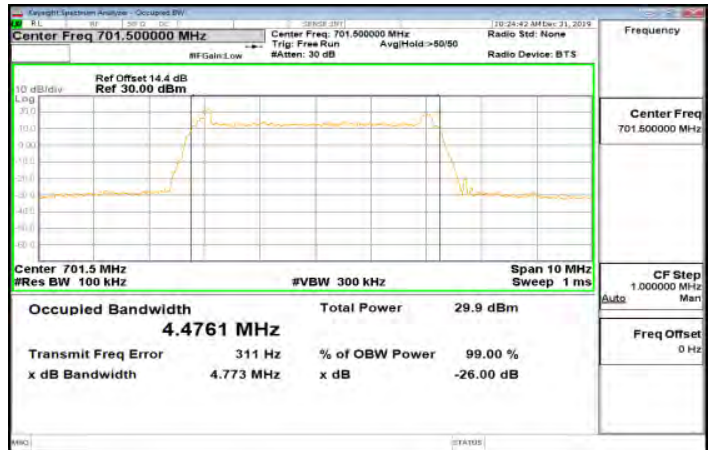
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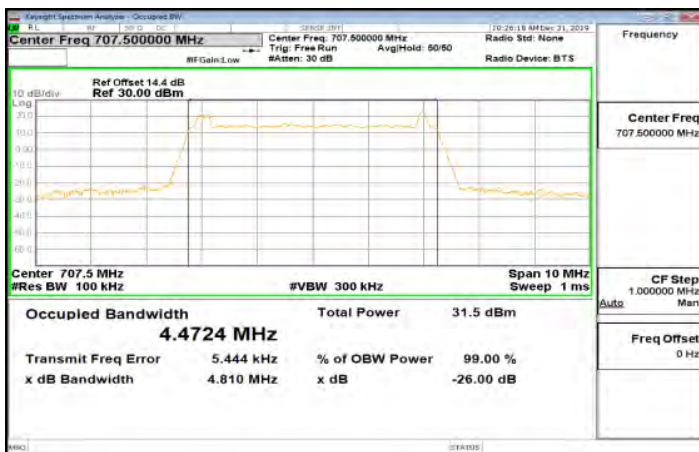
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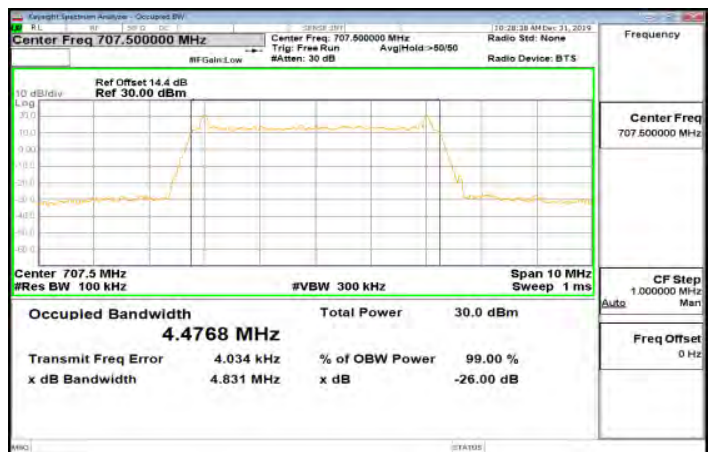
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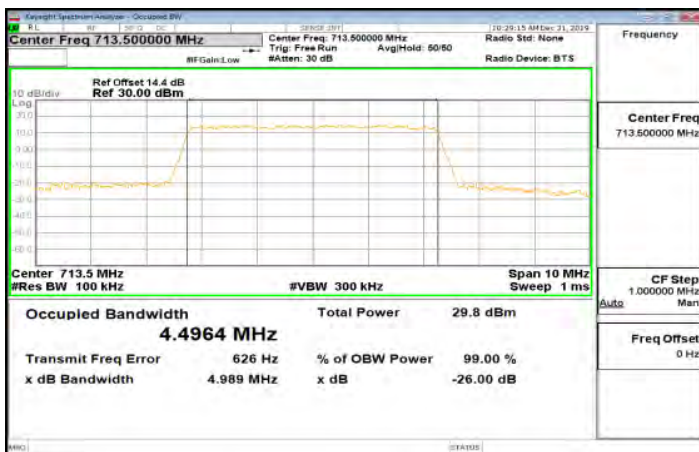
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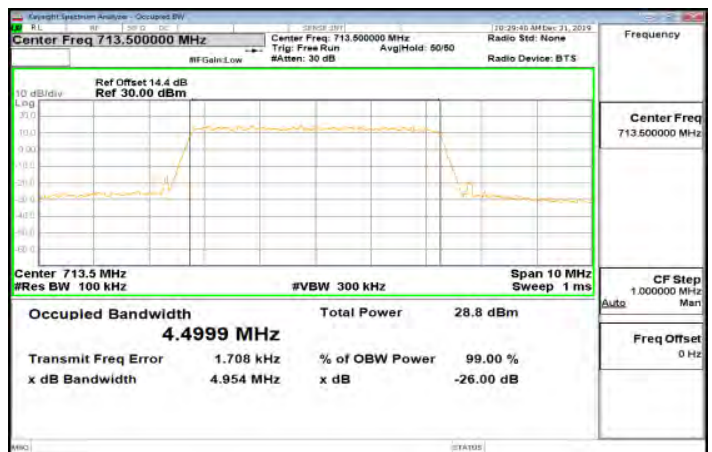
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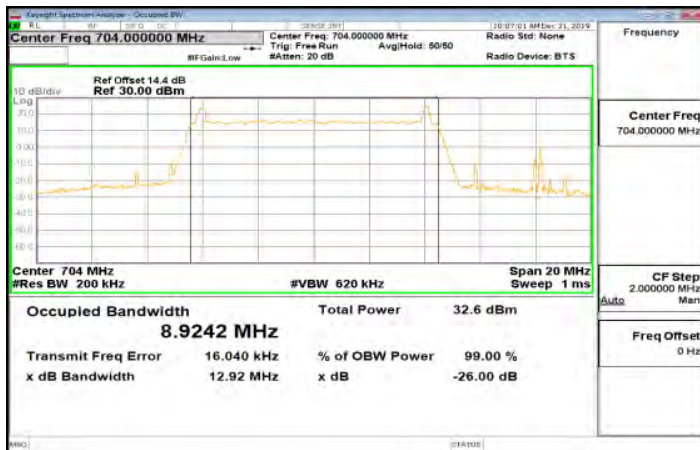


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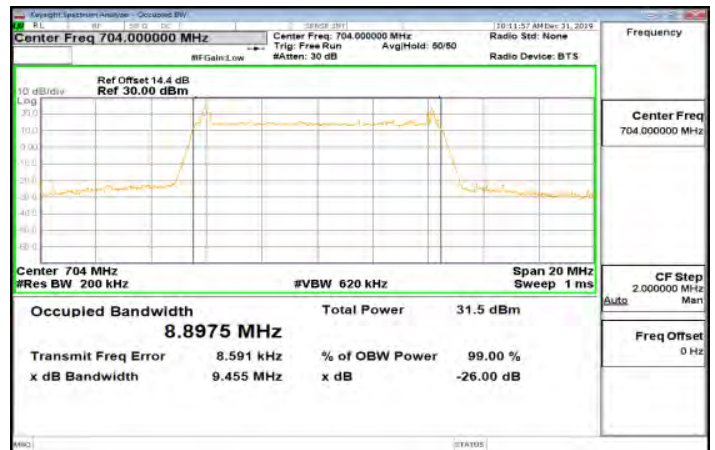
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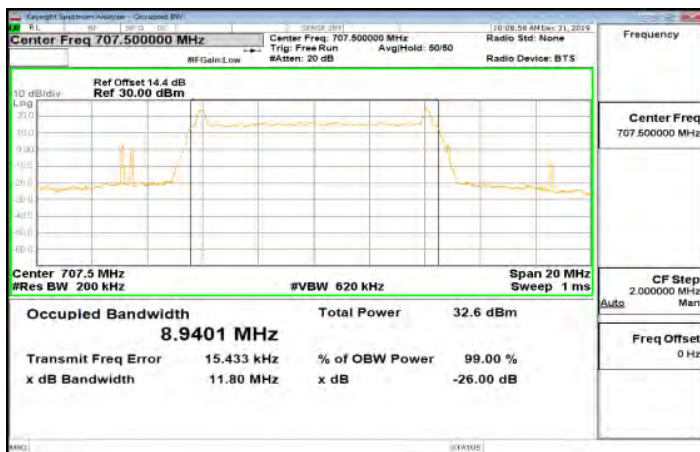
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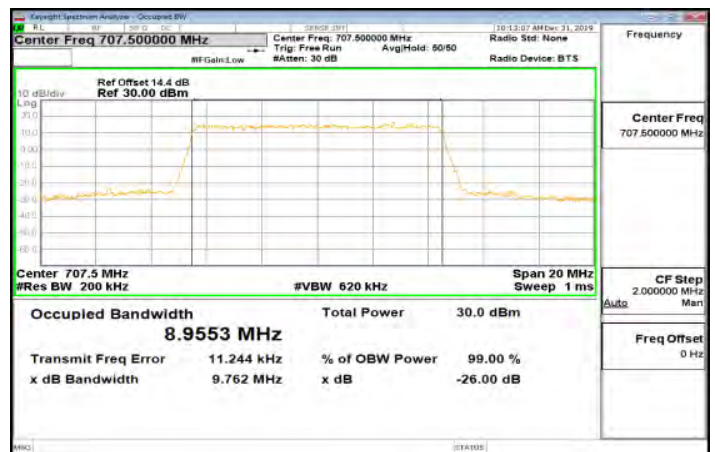
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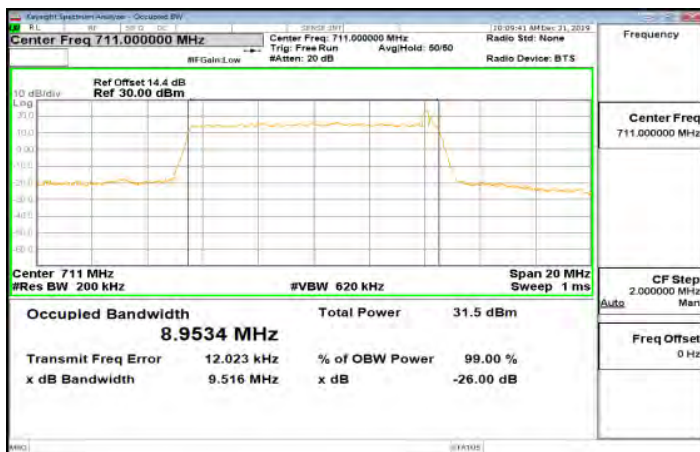
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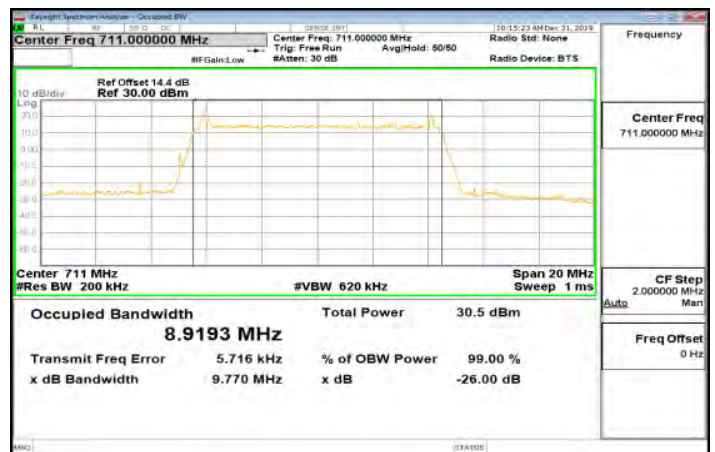
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Band12_10MHz_QPSK_50_0_Main_HighCH23130-711



Band12_10MHz_16QAM_50_0_Main_HighCH23130-711



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