

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

OF

Applicant: Tula Health, Inc.
686 North Arbinger Way Suite 300, Farmington, Utah,
United States

Product Name: Tula Health Genie

Brand Name: Tula Health Genie

Model No.: THG001

Model Difference: N/A

Report Number: ER/2020/50090

FCC ID 2AXOYTULA

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

Issue Date: October 12, 2021

Date of Test: May 27, 2020 ~ May 12, 2021

Date of EUT Received: May 27, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT 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:**Jim Chang / Manager**

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/2020/50090	Rev.00	Original.	October 12, 2021	Revised By: Yuri Tsai

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

General:

Product Name:	Tula Health Genie
Brand Name:	Tula Health Genie
Model No.:	THG001
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	3.8Vdc from Rechargeable Lithium-ion battery or 5V from AC/DC Adapter
IMEI:	861608470000041

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1.2 Operation Frequency Range

Operating Frequency (MHz)		
WCDMA / HSPA+ Band II	1852.4	- 1907.6
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	- 1750.0
	15	1717.5	- 1747.5
	20	1720.0	- 1745.0
13	5	779.5	- 784.5
	10	782	
17	5	706.5	- 713.5
	10	709.0	- 711.0

1.3 Antenna Designation

Vendor	Type	Antenna Part No.	Modulation	Frequency (MHz)		Peak Antenna Gain (dBi)
AW	PCB	AW006-308-021-A0 AW006-308-022-A0 AW006-308-023-A0	WCDMA / HSPA Band II	1852.4	~ 1907.6	0.2
			WCDMA / HSPA Band V	826.4	~ 846.6	-0.5
			LTE Band 2	1850	~ 1910	0.2
			LTE Band 4	1710	~ 1755	-1.5
			LTE Band 13	777	~ 787	0.5
			LTE Band 17	704	~ 716	-1.5

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

	ERP / EIRP (dBm)		W	Type of Emission
WCDMA Band II	21.55	EIRP	0.143	4M16F9W
HSDPA Band II	20.53	EIRP	0.113	4M17F9W
HSUPA Band II	20.08	EIRP	0.102	4M18F9W
WCDMA Band V	21.74	ERP	0.149	4M19F9W
HSDPA Band V	21.59	ERP	0.144	4M19F9W
HSUPA Band V	21.60	ERP	0.145	4M18F9W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
2	1.4	QPSK	23.04	EIRP	0.201	1.0963	1M10G7D	9
		16QAM	22.05	EIRP	0.160	1.1021	1M10D7W	9
		64QAM	21.02	EIRP	0.126	1.1011	1M10D7W	9
2	3	QPSK	22.87	EIRP	0.194	2.6899	2M69G7D	9
		16QAM	21.94	EIRP	0.156	2.6904	2M69D7W	9
		64QAM	20.85	EIRP	0.122	2.6948	2M69D7W	9
2	5	QPSK	22.92	EIRP	0.196	4.4909	4M49G7D	9
		16QAM	21.98	EIRP	0.158	4.4918	4M49D7W	9
		64QAM	20.93	EIRP	0.124	4.5000	4M50D7W	9
2	10	QPSK	22.96	EIRP	0.198	8.9920	8M99G7D	9
		16QAM	21.94	EIRP	0.156	8.9836	8M98D7W	9
		64QAM	20.97	EIRP	0.125	8.9773	8M98D7W	9
2	15	QPSK	23.00	EIRP	0.200	13.501	13M5G7D	9
		16QAM	21.98	EIRP	0.158	13.475	13M5D7W	9
		64QAM	20.96	EIRP	0.125	13.454	13M5D7W	9
2	20	QPSK	23.14	EIRP	0.206	17.956	18M0G7D	9
		16QAM	21.98	EIRP	0.158	17.967	18M0D7W	9
		64QAM	20.97	EIRP	0.125	17.956	18M0D7W	9

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
4	1.4	QPSK	20.25	EIRP	0.106	1.0967	1M10G7D	10
		16QAM	19.16	EIRP	0.082	1.1022	1M10D7W	10
		64QAM	18.22	EIRP	0.066	1.1024	1M10D7W	10
4	3	QPSK	19.93	EIRP	0.098	2.6921	2M69G7D	10
		16QAM	19.14	EIRP	0.082	2.6909	2M69D7W	10
		64QAM	18.15	EIRP	0.065	2.6951	2M70D7W	10
4	5	QPSK	19.67	EIRP	0.093	4.4928	4M49G7D	10
		16QAM	19.06	EIRP	0.081	4.4942	4M49D7W	10
		64QAM	18.12	EIRP	0.065	4.5018	4M50D7W	10
4	10	QPSK	19.77	EIRP	0.095	9.0263	9M03G7D	10
		16QAM	19.01	EIRP	0.080	8.9877	8M99D7W	10
		64QAM	18.04	EIRP	0.064	8.9928	8M99D7W	10
4	15	QPSK	19.75	EIRP	0.094	13.5240	13M5G7D	10
		16QAM	19.15	EIRP	0.082	13.4940	13M5D7W	10
		64QAM	18.03	EIRP	0.064	13.4820	13M5D7W	10
4	20	QPSK	20.03	EIRP	0.101	17.9950	18M0G7D	10
		16QAM	19.28	EIRP	0.085	18.0050	18M0D7W	10
		64QAM	18.30	EIRP	0.068	17.9970	18M0D7W	10

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
13	5	QPSK	22.42	ERP	0.175	4.5174	4M52G7D	10
		16QAM	21.40	ERP	0.138	4.5098	4M51D7W	10
		64QAM	20.35	ERP	0.108	4.5262	4M53D7W	10
13	10	QPSK	22.44	ERP	0.175	8.9703	8M97G7D	10
		16QAM	21.33	ERP	0.136	8.9640	8M96D7W	10
		64QAM	20.22	ERP	0.105	8.9981	9M00D7W	10

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
17	5	QPSK	20.25	ERP	0.106	4.5234	4M52G7D	9
		16QAM	19.30	ERP	0.085	4.5101	4M51D7W	9
		64QAM	18.15	ERP	0.065	4.5348	4M53D7W	9
17	10	QPSK	20.38	ERP	0.109	9.0004	9M00G7D	9
		16QAM	19.24	ERP	0.084	8.9486	8M95D7W	9
		64QAM	18.13	ERP	0.065	8.9571	8M96D7W	9

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C

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.

KDB412172 D01 Determining ERP and EIRP v01r01

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

1.6 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803

FCC Designation number: TW0027

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

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

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

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

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.93	10	13.93
High Band (Above 1 GHz)	4.49	10	14.49

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2.5 Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	3.8	789
WCDMA B5		803
LTE Band 2		784
LTE Band 4		804
LTE Band 13		802
LTE Band 17		804

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2.6 Configuration of Tested System

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

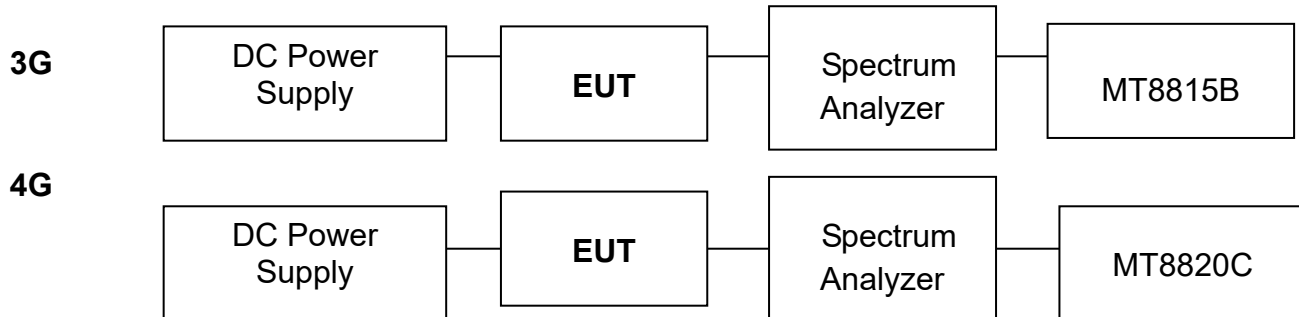


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

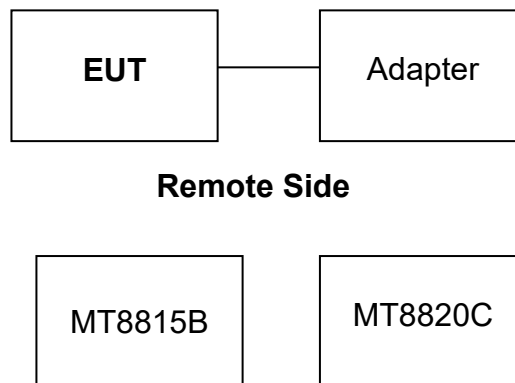


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyser	Anritsu	MT8820C	6200995019	shielded	Un-shielded
2.	Radio Communication Analyser	Anritsu	MT8815B	6200711454	shielded	Un-shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§24.232(c) §27.50(b)(10) §27.50(d)(4) §27.50(c)(10) §27.50(b)(10) §22.913(a)(5)	ERP/ EIRP measurement	Compliant
§2.1049	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §24.238(a) §27.53(c) §27.53(g) §27.53(h) §22.917(a)(b)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask re- quirements	Compliant
§2.1053 §2.1057(a)(1) §24.238(a) §27.53(a) §27.53(c)(f) §27.53(g) §27.53(h) §22.917(a)	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(a)(1)(B)	Peak to Average Ratio	Compliant
§2.1055(a)(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	H PLAN	E1 PLAN	E2 PLAN
WCDMA/HSPA Band II	V		
WCDMA/HSPA Band V	V		
LTE Band 2	V		
LTE Band 4	V		
LTE Band 13	V		
LTE Band 17	V		

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4.2 Measurement Configuration

Test Items	WCDMA / HSPA Bands	Test Channel		
		L	M	H
ERP	Band V	v	v	v
EIRP	Bnad II	v	v	v
FREQUENCY STABILITY	Bnad II	-	v	-
	Band V	-	v	-
OCCUPIED BANDWIDTH	Bnad II	v	v	v
	Band V	v	v	v
PEAK TO AVERAGE RATIO	Bnad II	v	v	v
	Band V	v	v	v
BAND EDGE	Bnad II	v	-	v
	Band V	v	-	v
CONDCUDED EMISSION	Bnad II	v	v	v
	Band V	v	v	v
RADIATED EMISSION	Bnad II	v	v	v
	Band V	v	v	v

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	13	v	v	v	-	-	v	v	-	-	v	v	v	v	v	v
	17	v	v	v	-	-	v	v	-	-	v	v	v	v	v	v
Frequency Stability	2	-	v	-				v			v	-	-	-	-	v
	4	-	v	-				v			v	-	-	-	-	v
	13	-	v	-	-	-		v	-	-	v	-	-	-	-	v
	17	-	v	-	-	-		v	-	-	v	-	-	-	-	v

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
26dB and 99% Bandwidth	2	v	v	v	v	v	v	v	v	v	v	v	v	-	-	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	-	-	v
	13	v	v	v	-	-	v	v	-	-	v	v	v	-	-	v
	17	v	v	v	-	-	v	v	-	-	v	v	v	-	-	v
Peak-to-Average Ratio	2	v	v	v	v	v	v	v	v	v	-	-	v	-	-	v
	4	v	v	v	v	v	v	v	v	v	-	-	v	-	-	v
	13	v	v	v	-	-	v	v	-	-	-	-	v	-	-	v
	17	v	v	v	-	-	v	v	-	-	-	-	v	-	-	v

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
Emission	13	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
Band Edge	2	V	-	V	V	V	V	V	V	V	V	-	-	V	V	V
	4	V	-	V	V	V	V	V	V	V	V	-	-	V	V	V
	17	V	-	V	-	-	V	V	-	-	V	-	-	V	V	V
Conducted Emission	2	V	V	V	V	V	V	V	V	V	V	-	-	V	-	-
	4	V	V	V	V	V	V	V	V	V	V	-	-	V	-	-
	13	V	V	V	-	-	V	V	-	-	V	-	-	V	-	-
	17	V	V	V	-	-	V	V	-	-	V	-	-	V	-	-

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	1	Half	Full
Radiated Emission	2	V	V	V						V	V			V		
	4	V	V	V	V						V			V		
	13	V	V	V	-	-		V	-	-	V			V		
	17	V	V	V	-	-		V	-	-	V			V		

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5 MEASUREMENT UNCERTAINTY

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

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

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

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6 MAXMUM OUTPUT POWER

6.1 Standard Applicable

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

6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

FCC 24.232(c) LTE 2

Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50 (b) LTE 13

(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) LTE 17

(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. **LTE 4**

FCC 22.913(a)

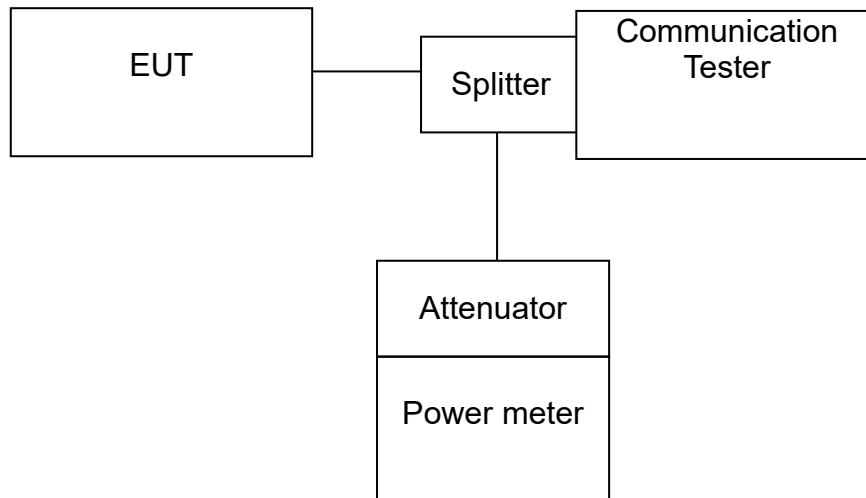
(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

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6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

6.3 Output Power Measurement Applicable Guidance

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

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

According to KDB 412172 D01 Power Approach,

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

$$ERP = EIRP - 2.15,$$

Where:

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

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6.5 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Radio Communication Analyzer	Anritsu	MT8815B	6200711454	04/01/2020	03/31/2021
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
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	12/16/2020	12/15/2021

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

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6.6 WCDMA & HSPA Measurement Results:

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**. RMC 12.2kps is used for this testing.

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	21.11	0.20	19.16	21.31	33.00	-11.69
	1880.0	9400	21.25	0.20	19.30	21.45	33.00	-11.55
	1907.6	9538	21.35	0.20	19.40	21.55	33.00	-11.45
HSDPA	1852.4	9262	19.90	0.20	17.95	20.10	33.00	-12.90
	1880.0	9400	20.23	0.20	18.28	20.43	33.00	-12.57
	1907.6	9538	20.33	0.20	18.38	20.53	33.00	-12.47
HSUPA	1852.4	9262	19.88	0.20	17.93	20.08	33.00	-12.92
	1880.0	9400	19.71	0.20	17.76	19.91	33.00	-13.09
	1907.6	9538	19.79	0.20	17.84	19.99	33.00	-13.01

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	24.39	-0.50	21.74	23.89	38.50	-14.61
	836.6	4183	24.11	-0.50	21.46	23.61	38.50	-14.89
	846.6	4233	24.28	-0.50	21.63	23.78	38.50	-14.72
HSDPA	826.4	4132	24.10	-0.50	21.45	23.60	38.50	-14.90
	836.6	4183	24.24	-0.50	21.59	23.74	38.50	-14.76
	846.6	4233	24.16	-0.50	21.51	23.66	38.50	-14.84
HSUPA	826.4	4132	24.22	-0.50	21.57	23.72	38.50	-14.78
	836.6	4183	24.25	-0.50	21.60	23.75	38.50	-14.75
	846.6	4233	24.17	-0.50	21.52	23.67	38.50	-14.83

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6.6.1 HSPA (HSDPA & HSUPA) Release 6:

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.

6.6.2 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.

Mode	Sub test	Avg. Power (dBm) Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	19.90	20.23	20.33
	2	19.86	20.20	20.31
	3	19.39	19.72	19.81
	4	19.37	19.71	19.83

Mode	Sub test	Avg. Power (dBm) Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	24.10	24.24	24.16
	2	24.11	24.07	24.13
	3	24.16	24.20	24.16
	4	24.10	24.06	24.17

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6.6.3 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.

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	19.88	19.71	19.79
	2	19.87	20.21	20.31
	3	18.91	19.25	19.31
	4	19.89	20.19	20.30
	5	18.88	19.22	19.29

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	24.22	24.25	24.17
	2	24.15	24.23	24.20
	3	24.24	24.14	24.20
	4	24.13	24.10	24.17
	5	24.22	24.19	24.07

6.6.4 WCDMA/HSDPA/HSUPA band II, 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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6.7 LTE Measurement Results:

Antenna gain (dBi)		0.2							
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	22.71	22.91	33	-10.09
				1	5	22.84	23.04	33	-9.96
				3	2	22.68	22.88	33	-10.12
				6	0	21.82	22.02	33	-10.98
	18900	1880	QPSK	1	0	22.68	22.88	33	-10.12
				1	5	22.66	22.86	33	-10.14
				3	2	22.83	23.03	33	-9.97
				6	0	21.71	21.91	33	-11.09
	19193	1909.3	QPSK	1	0	22.72	22.92	33	-10.08
				1	5	22.81	23.01	33	-9.99
				3	2	22.66	22.86	33	-10.14
				6	0	21.78	21.98	33	-11.02
1.4	18607	1850.7	16QAM	1	0	21.67	21.87	33	-11.13
				1	5	21.83	22.03	33	-10.97
				3	2	21.83	22.03	33	-10.97
				6	0	20.67	20.87	33	-12.13
	18900	1880	16QAM	1	0	21.85	22.05	33	-10.95
				1	5	21.70	21.90	33	-11.1
				3	2	21.79	21.99	33	-11.01
				6	0	20.71	20.91	33	-12.09
	19193	1909.3	16QAM	1	0	21.76	21.96	33	-11.04
				1	5	21.68	21.88	33	-11.12
				3	2	21.65	21.85	33	-11.15
				6	0	20.82	21.02	33	-11.98
1.4	18607	1850.7	64QAM	1	0	20.77	20.97	33	-12.03
				1	5	20.82	21.02	33	-11.98
				3	2	20.76	20.96	33	-12.04
				6	0	19.81	20.01	33	-12.99
	18900	1880	64QAM	1	0	20.75	20.95	33	-12.05
				1	5	20.68	20.88	33	-12.12
				3	2	20.72	20.92	33	-12.08
				6	0	19.79	19.99	33	-13.01
	19193	1909.3	64QAM	1	0	20.75	20.95	33	-12.05
				1	5	20.71	20.91	33	-12.09
				3	2	20.69	20.89	33	-12.11
				6	0	19.69	19.89	33	-13.11

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Antenna gain (dBi)		0.2							
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	22.52	22.72	33	-10.28
				1	14	22.67	22.87	33	-10.13
				8	4	21.72	21.92	33	-11.08
				15	0	21.61	21.81	33	-11.19
	18900	1880	QPSK	1	0	22.64	22.84	33	-10.16
				1	14	22.47	22.67	33	-10.33
				8	4	21.74	21.94	33	-11.06
				15	0	21.68	21.88	33	-11.12
	19185	1908.5	QPSK	1	0	22.66	22.86	33	-10.14
				1	14	22.59	22.79	33	-10.21
				8	4	21.59	21.79	33	-11.21
				15	0	21.57	21.77	33	-11.23
3	18615	1851.5	16QAM	1	0	21.61	21.81	33	-11.19
				1	14	21.72	21.92	33	-11.08
				8	4	20.59	20.79	33	-12.21
				15	0	20.53	20.73	33	-12.27
	18900	1880	16QAM	1	0	21.68	21.88	33	-11.12
				1	14	21.61	21.81	33	-11.19
				8	4	20.50	20.70	33	-12.3
				15	0	20.78	20.98	33	-12.02
	19185	1908.5	16QAM	1	0	21.74	21.94	33	-11.06
				1	14	21.61	21.81	33	-11.19
				8	4	20.48	20.68	33	-12.32
				15	0	20.65	20.85	33	-12.15
3	18615	1851.5	64QAM	1	0	20.63	20.83	33	-12.17
				1	14	20.65	20.85	33	-12.15
				8	4	19.57	19.77	33	-13.23
				15	0	19.52	19.72	33	-13.28
	18900	1880	64QAM	1	0	20.52	20.72	33	-12.28
				1	14	20.56	20.76	33	-12.24
				8	4	19.48	19.68	33	-13.32
				15	0	19.57	19.77	33	-13.23
	19185	1908.5	64QAM	1	0	20.57	20.77	33	-12.23
				1	14	20.54	20.74	33	-12.26
				8	4	19.73	19.93	33	-13.07
				15	0	19.57	19.77	33	-13.23

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Antenna gain (dBi)		0.2							
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	22.66	22.86	33	-10.14
				1	24	22.70	22.90	33	-10.1
				12	6	21.74	21.94	33	-11.06
				25	0	21.70	21.90	33	-11.1
	18900	1880	QPSK	1	0	22.65	22.85	33	-10.15
				1	24	22.62	22.82	33	-10.18
				12	6	21.78	21.98	33	-11.02
				25	0	21.70	21.90	33	-11.1
	19175	1907.5	QPSK	1	0	22.72	22.92	33	-10.08
				1	24	22.67	22.87	33	-10.13
				12	6	21.72	21.92	33	-11.08
				25	0	21.61	21.81	33	-11.19
5	18625	1852.5	16QAM	1	0	21.76	21.96	33	-11.04
				1	24	21.75	21.95	33	-11.05
				12	6	20.66	20.86	33	-12.14
				25	0	20.65	20.85	33	-12.15
	18900	1880	16QAM	1	0	21.73	21.93	33	-11.07
				1	24	21.65	21.85	33	-11.15
				12	6	20.68	20.88	33	-12.12
				25	0	20.79	20.99	33	-12.01
	19175	1907.5	16QAM	1	0	21.78	21.98	33	-11.02
				1	24	21.71	21.91	33	-11.09
				12	6	20.66	20.86	33	-12.14
				25	0	20.71	20.91	33	-12.09
5	18625	1852.5	64QAM	1	0	20.73	20.93	33	-12.07
				1	24	20.69	20.89	33	-12.11
				12	6	19.69	19.89	33	-13.11
				25	0	19.61	19.81	33	-13.19
	18900	1880	64QAM	1	0	20.68	20.88	33	-12.12
				1	24	20.61	20.81	33	-12.19
				12	6	19.64	19.84	33	-13.16
				25	0	19.74	19.94	33	-13.06
	19175	1907.5	64QAM	1	0	20.67	20.87	33	-12.13
				1	24	20.70	20.90	33	-12.1
				12	6	19.80	20.00	33	-13
				25	0	19.71	19.91	33	-13.09

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Antenna gain (dBi)		0.2							
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	22.74	22.94	33	-10.06
				1	49	22.62	22.82	33	-10.18
				25	12	21.64	21.84	33	-11.16
				50	0	21.67	21.87	33	-11.13
	18900	1880	QPSK	1	0	22.76	22.96	33	-10.04
				1	49	22.72	22.92	33	-10.08
				25	12	21.77	21.97	33	-11.03
				50	0	21.71	21.91	33	-11.09
	19150	1905	QPSK	1	0	22.65	22.85	33	-10.15
				1	49	22.70	22.90	33	-10.1
				25	12	21.66	21.86	33	-11.14
				50	0	21.77	21.97	33	-11.03
10	18650	1855	16QAM	1	0	21.74	21.94	33	-11.06
				1	49	21.69	21.89	33	-11.11
				25	12	20.71	20.91	33	-12.09
				50	0	20.77	20.97	33	-12.03
	18900	1880	16QAM	1	0	21.61	21.81	33	-11.19
				1	49	21.66	21.86	33	-11.14
				25	12	20.76	20.96	33	-12.04
				50	0	20.76	20.96	33	-12.04
	19150	1905	16QAM	1	0	21.71	21.91	33	-11.09
				1	49	21.60	21.80	33	-11.2
				25	12	20.67	20.87	33	-12.13
				50	0	20.76	20.96	33	-12.04
10	18650	1855	64QAM	1	0	20.60	20.80	33	-12.2
				1	49	20.76	20.96	33	-12.04
				25	12	19.79	19.99	33	-13.01
				50	0	19.73	19.93	33	-13.07
	18900	1880	64QAM	1	0	20.77	20.97	33	-12.03
				1	49	20.75	20.95	33	-12.05
				25	12	19.64	19.84	33	-13.16
				50	0	19.79	19.99	33	-13.01
	19150	1905	64QAM	1	0	20.76	20.96	33	-12.04
				1	49	20.74	20.94	33	-12.06
				25	12	19.67	19.87	33	-13.13
				50	0	19.75	19.95	33	-13.05

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Antenna gain (dBi)		0.2							
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	22.77	22.97	33	-10.03
				1	74	22.80	23.00	33	-10
				36	18	21.73	21.93	33	-11.07
				75	0	21.77	21.97	33	-11.03
	18900	1880	QPSK	1	0	22.73	22.93	33	-10.07
				1	74	22.63	22.83	33	-10.17
				36	18	21.73	21.93	33	-11.07
				75	0	21.64	21.84	33	-11.16
	19125	1902.5	QPSK	1	0	22.73	22.93	33	-10.07
				1	74	22.71	22.91	33	-10.09
				36	18	21.77	21.97	33	-11.03
				75	0	21.75	21.95	33	-11.05
15	18675	1857.5	16QAM	1	0	21.74	21.94	33	-11.06
				1	74	21.68	21.88	33	-11.12
				36	18	20.73	20.93	33	-12.07
				75	0	20.77	20.97	33	-12.03
	18900	1880	16QAM	1	0	21.64	21.84	33	-11.16
				1	74	21.75	21.95	33	-11.05
				36	18	20.72	20.92	33	-12.08
				75	0	20.72	20.92	33	-12.08
	19125	1902.5	16QAM	1	0	21.78	21.98	33	-11.02
				1	74	21.73	21.93	33	-11.07
				36	18	20.73	20.93	33	-12.07
				75	0	20.74	20.94	33	-12.06
15	18675	1857.5	64QAM	1	0	20.66	20.86	33	-12.14
				1	74	20.73	20.93	33	-12.07
				36	18	19.61	19.81	33	-13.19
				75	0	19.68	19.88	33	-13.12
	18900	1880	64QAM	1	0	20.74	20.94	33	-12.06
				1	74	20.68	20.88	33	-12.12
				36	18	19.64	19.84	33	-13.16
				75	0	19.61	19.81	33	-13.19
	19125	1902.5	64QAM	1	0	20.76	20.96	33	-12.04
				1	74	20.75	20.95	33	-12.05
				36	18	19.74	19.94	33	-13.06
				75	0	19.62	19.82	33	-13.18

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Antenna gain (dBi)		0.2							
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	22.68	22.88	33	-10.12
				1	99	22.73	22.93	33	-10.07
				50	25	21.94	22.14	33	-10.86
				100	0	21.88	22.08	33	-10.92
	18900	1880	QPSK	1	0	22.89	23.09	33	-9.91
				1	99	22.91	23.11	33	-9.89
				50	25	21.94	22.14	33	-10.86
				100	0	21.90	22.10	33	-10.9
	19100	1900	QPSK	1	0	22.92	23.12	33	-9.88
				1	99	22.94	23.14	33	-9.86
				50	25	21.79	21.99	33	-11.01
				100	0	21.91	22.11	33	-10.89
20	18700	1860	16QAM	1	0	21.75	21.95	33	-11.05
				1	99	21.68	21.88	33	-11.12
				50	25	20.63	20.83	33	-12.17
				100	0	20.64	20.84	33	-12.16
	18900	1880	16QAM	1	0	21.68	21.88	33	-11.12
				1	99	21.78	21.98	33	-11.02
				50	25	20.71	20.91	33	-12.09
				100	0	20.77	20.97	33	-12.03
	19100	1900	16QAM	1	0	21.60	21.80	33	-11.2
				1	99	21.70	21.90	33	-11.1
				50	25	20.69	20.89	33	-12.11
				100	0	20.79	20.99	33	-12.01
20	18700	1860	64QAM	1	0	20.77	20.97	33	-12.03
				1	99	20.69	20.89	33	-12.11
				50	25	19.62	19.82	33	-13.18
				100	0	19.77	19.97	33	-13.03
	18900	1880	64QAM	1	0	20.67	20.87	33	-12.13
				1	99	20.73	20.93	33	-12.07
				50	25	19.71	19.91	33	-13.09
				100	0	19.75	19.95	33	-13.05
	19100	1900	64QAM	1	0	20.76	20.96	33	-12.04
				1	99	20.75	20.95	33	-12.05
				50	25	19.61	19.81	33	-13.19
				100	0	19.61	19.81	33	-13.19

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Antenna gain (dBi)		-1.5							
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	21.51	20.01	30	-9.99
				1	5	21.55	20.05	30	-9.95
				3	2	21.74	20.24	30	-9.76
				6	0	20.51	19.01	30	-10.99
	20175	1732.5	QPSK	1	0	21.64	20.14	30	-9.86
				1	5	21.58	20.08	30	-9.92
				3	2	21.74	20.24	30	-9.76
				6	0	20.79	19.29	30	-10.71
	20393	1754.3	QPSK	1	0	21.55	20.05	30	-9.95
				1	5	21.75	20.25	30	-9.75
				3	2	21.72	20.22	30	-9.78
				6	0	20.70	19.20	30	-10.8
1.4	19957	1710.7	16QAM	1	0	20.65	19.15	30	-10.85
				1	5	20.63	19.13	30	-10.87
				3	2	20.60	19.10	30	-10.9
				6	0	19.79	18.29	30	-11.71
	20175	1732.5	16QAM	1	0	20.65	19.15	30	-10.85
				1	5	20.56	19.06	30	-10.94
				3	2	20.56	19.06	30	-10.94
				6	0	19.52	18.02	30	-11.98
	20393	1754.3	16QAM	1	0	20.66	19.16	30	-10.84
				1	5	20.55	19.05	30	-10.95
				3	2	20.54	19.04	30	-10.96
				6	0	19.69	18.19	30	-11.81
1.4	19957	1710.7	64QAM	1	0	19.66	18.16	30	-11.84
				1	5	19.72	18.22	30	-11.78
				3	2	19.64	18.14	30	-11.86
				6	0	18.63	17.13	30	-12.87
	20175	1732.5	64QAM	1	0	19.57	18.07	30	-11.93
				1	5	19.60	18.10	30	-11.9
				3	2	19.65	18.15	30	-11.85
				6	0	18.75	17.25	30	-12.75
	20393	1754.3	64QAM	1	0	19.68	18.18	30	-11.82
				1	5	19.67	18.17	30	-11.83
				3	2	19.62	18.12	30	-11.88
				6	0	18.74	17.24	30	-12.76

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Antenna gain (dBi)		-1.5							
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	21.14	19.64	30	-10.36
				1	14	20.39	18.89	30	-11.11
				8	4	20.44	18.94	30	-11.06
				15	0	20.16	18.66	30	-11.34
	20175	1732.5	QPSK	1	0	21.10	19.60	30	-10.4
				1	14	20.90	19.40	30	-10.6
				8	4	20.49	18.99	30	-11.01
				15	0	20.49	18.99	30	-11.01
	20385	1753.5	QPSK	1	0	21.06	19.56	30	-10.44
				1	14	21.43	19.93	30	-10.07
				8	4	20.53	19.03	30	-10.97
				15	0	20.34	18.84	30	-11.16
3	19965	1711.5	16QAM	1	0	20.39	18.89	30	-11.11
				1	14	20.44	18.94	30	-11.06
				8	4	19.41	17.91	30	-12.09
				15	0	19.26	17.76	30	-12.24
	20175	1732.5	16QAM	1	0	20.52	19.02	30	-10.98
				1	14	20.64	19.14	30	-10.86
				8	4	19.51	18.01	30	-11.99
				15	0	19.51	18.01	30	-11.99
	20385	1753.5	16QAM	1	0	20.37	18.87	30	-11.13
				1	14	20.44	18.94	30	-11.06
				8	4	19.48	17.98	30	-12.02
				15	0	19.47	17.97	30	-12.03
3	19965	1711.5	64QAM	1	0	19.56	18.06	30	-11.94
				1	14	19.36	17.86	30	-12.14
				8	4	18.64	17.14	30	-12.86
				15	0	18.57	17.07	30	-12.93
	20175	1732.5	64QAM	1	0	19.28	17.78	30	-12.22
				1	14	19.39	17.89	30	-12.11
				8	4	18.35	16.85	30	-13.15
				15	0	18.44	16.94	30	-13.06
	20385	1753.5	64QAM	1	0	19.34	17.84	30	-12.16
				1	14	19.65	18.15	30	-11.85
				8	4	18.47	16.97	30	-13.03
				15	0	18.45	16.95	30	-13.05

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Antenna gain (dBi)		-1.5							
LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	21.08	19.58	30	-10.42
				1	24	20.56	19.06	30	-10.94
				12	6	20.42	18.92	30	-11.08
				25	0	20.44	18.94	30	-11.06
	20175	1732.5	QPSK	1	0	21.03	19.53	30	-10.47
				1	24	21.05	19.55	30	-10.45
				12	6	20.43	18.93	30	-11.07
				25	0	20.25	18.75	30	-11.25
	20375	1752.5	QPSK	1	0	21.17	19.67	30	-10.33
				1	24	21.17	19.67	30	-10.33
				12	6	20.47	18.97	30	-11.03
				25	0	20.44	18.94	30	-11.06
5	19975	1712.5	16QAM	1	0	20.41	18.91	30	-11.09
				1	24	20.34	18.84	30	-11.16
				12	6	19.28	17.78	30	-12.22
				25	0	19.27	17.77	30	-12.23
	20175	1732.5	16QAM	1	0	20.52	19.02	30	-10.98
				1	24	20.40	18.90	30	-11.1
				12	6	19.31	17.81	30	-12.19
				25	0	19.47	17.97	30	-12.03
	20375	1752.5	16QAM	1	0	20.56	19.06	30	-10.94
				1	24	20.54	19.04	30	-10.96
				12	6	19.44	17.94	30	-12.06
				25	0	19.53	18.03	30	-11.97
5	19975	1712.5	64QAM	1	0	19.62	18.12	30	-11.88
				1	24	19.44	17.94	30	-12.06
				12	6	18.48	16.98	30	-13.02
				25	0	18.31	16.81	30	-13.19
	20175	1732.5	64QAM	1	0	19.42	17.92	30	-12.08
				1	24	19.26	17.76	30	-12.24
				12	6	18.14	16.64	30	-13.36
				25	0	18.29	16.79	30	-13.21
	20375	1752.5	64QAM	1	0	19.43	17.93	30	-12.07
				1	24	19.55	18.05	30	-11.95
				12	6	18.43	16.93	30	-13.07
				25	0	18.59	17.09	30	-12.91

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Antenna gain (dBi)		-1.5							
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	21.18	19.68	30	-10.32
				1	49	20.35	18.85	30	-11.15
				25	12	20.47	18.97	30	-11.03
				50	0	20.42	18.92	30	-11.08
	20175	1732.5	QPSK	1	0	21.09	19.59	30	-10.41
				1	49	21.00	19.50	30	-10.5
				25	12	20.41	18.91	30	-11.09
				50	0	20.26	18.76	30	-11.24
	20350	1750	QPSK	1	0	20.91	19.41	30	-10.59
				1	49	21.27	19.77	30	-10.23
				25	12	20.65	19.15	30	-10.85
				50	0	20.27	18.77	30	-11.23
10	20000	1715	16QAM	1	0	20.40	18.90	30	-11.1
				1	49	20.39	18.89	30	-11.11
				25	12	19.33	17.83	30	-12.17
				50	0	19.42	17.92	30	-12.08
	20175	1732.5	16QAM	1	0	20.33	18.83	30	-11.17
				1	49	20.47	18.97	30	-11.03
				25	12	19.37	17.87	30	-12.13
				50	0	19.36	17.86	30	-12.14
	20350	1750	16QAM	1	0	20.51	19.01	30	-10.99
				1	49	20.30	18.80	30	-11.2
				25	12	19.46	17.96	30	-12.04
				50	0	19.36	17.86	30	-12.14
10	20000	1715	64QAM	1	0	19.54	18.04	30	-11.96
				1	49	19.17	17.67	30	-12.33
				25	12	18.39	16.89	30	-13.11
				50	0	18.30	16.80	30	-13.2
	20175	1732.5	64QAM	1	0	19.22	17.72	30	-12.28
				1	49	19.25	17.75	30	-12.25
				25	12	18.32	16.82	30	-13.18
				50	0	18.48	16.98	30	-13.02
	20350	1750	64QAM	1	0	19.34	17.84	30	-12.16
				1	49	19.54	18.04	30	-11.96
				25	12	18.34	16.84	30	-13.16
				50	0	18.47	16.97	30	-13.03

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Antenna gain (dBi)		-1.5							
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	20.90	19.40	30	-10.6
				1	74	20.45	18.95	30	-11.05
				36	18	20.45	18.95	30	-11.05
				75	0	20.16	18.66	30	-11.34
	20175	1732.5	QPSK	1	0	20.83	19.33	30	-10.67
				1	74	20.91	19.41	30	-10.59
				36	18	20.44	18.94	30	-11.06
				75	0	20.30	18.80	30	-11.2
	20325	1747.5	QPSK	1	0	21.05	19.55	30	-10.45
				1	74	21.25	19.75	30	-10.25
				36	18	20.70	19.20	30	-10.8
				75	0	20.35	18.85	30	-11.15
15	20025	1717.5	16QAM	1	0	20.65	19.15	30	-10.85
				1	74	20.52	19.02	30	-10.98
				36	18	19.31	17.81	30	-12.19
				75	0	19.25	17.75	30	-12.25
	20175	1732.5	16QAM	1	0	20.52	19.02	30	-10.98
				1	74	20.57	19.07	30	-10.93
				36	18	19.39	17.89	30	-12.11
				75	0	19.32	17.82	30	-12.18
	20325	1747.5	16QAM	1	0	20.42	18.92	30	-11.08
				1	74	20.50	19.00	30	-11
				36	18	19.33	17.83	30	-12.17
				75	0	19.34	17.84	30	-12.16
15	20025	1717.5	64QAM	1	0	19.53	18.03	30	-11.97
				1	74	19.16	17.66	30	-12.34
				36	18	18.61	17.11	30	-12.89
				75	0	18.32	16.82	30	-13.18
	20175	1732.5	64QAM	1	0	19.27	17.77	30	-12.23
				1	74	19.25	17.75	30	-12.25
				36	18	18.21	16.71	30	-13.29
				75	0	18.25	16.75	30	-13.25
	20325	1747.5	64QAM	1	0	19.43	17.93	30	-12.07
				1	74	19.50	18.00	30	-12
				36	18	18.36	16.86	30	-13.14
				75	0	18.32	16.82	30	-13.18

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Antenna gain (dBi)		-1.5							
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	21.30	19.80	30	-10.2
				1	99	20.74	19.24	30	-10.76
				50	25	20.65	19.15	30	-10.85
				100	0	20.55	19.05	30	-10.95
	20175	1732.5	QPSK	1	0	21.20	19.70	30	-10.3
				1	99	21.27	19.77	30	-10.23
				50	25	20.61	19.11	30	-10.89
				100	0	20.63	19.13	30	-10.87
	20300	1745	QPSK	1	0	21.28	19.78	30	-10.22
				1	99	21.53	20.03	30	-9.97
				50	25	20.87	19.37	30	-10.63
				100	0	20.56	19.06	30	-10.94
20	20050	1720	16QAM	1	0	20.78	19.28	30	-10.72
				1	99	20.63	19.13	30	-10.87
				50	25	19.56	18.06	30	-11.94
				100	0	19.58	18.08	30	-11.92
	20175	1732.5	16QAM	1	0	20.65	19.15	30	-10.85
				1	99	20.78	19.28	30	-10.72
				50	25	19.62	18.12	30	-11.88
				100	0	19.69	18.19	30	-11.81
	20300	1745	16QAM	1	0	20.69	19.19	30	-10.81
				1	99	20.66	19.16	30	-10.84
				50	25	19.65	18.15	30	-11.85
				100	0	19.70	18.20	30	-11.8
20	20050	1720	64QAM	1	0	19.79	18.29	30	-11.71
				1	99	19.56	18.06	30	-11.94
				50	25	18.74	17.24	30	-12.76
				100	0	18.70	17.20	30	-12.8
	20175	1732.5	64QAM	1	0	19.59	18.09	30	-11.91
				1	99	19.57	18.07	30	-11.93
				50	25	18.52	17.02	30	-12.98
				100	0	18.61	17.11	30	-12.89
	20300	1745	64QAM	1	0	19.61	18.11	30	-11.89
				1	99	19.80	18.30	30	-11.7
				50	25	18.58	17.08	30	-12.92
				100	0	18.71	17.21	30	-12.79

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Antenna gain (dBi)		0.5								
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)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	24.04	22.39	24.54	34.77	-12.38
				1	24	24.07	22.42	24.57	34.77	-12.35
				12	6	22.90	21.25	23.40	34.77	-13.52
				25	0	22.98	21.33	23.48	34.77	-13.44
	23230	782	QPSK	1	0	23.93	22.28	24.43	34.77	-12.49
				1	24	24.01	22.36	24.51	34.77	-12.41
				12	6	23.05	21.40	23.55	34.77	-13.37
				25	0	22.91	21.26	23.41	34.77	-13.51
	23255	784.5	QPSK	1	0	24.06	22.41	24.56	34.77	-12.36
				1	24	24.01	22.36	24.51	34.77	-12.41
				12	6	22.93	21.28	23.43	34.77	-13.49
				25	0	22.99	21.34	23.49	34.77	-13.43
5	23205	779.5	16QAM	1	0	22.96	21.31	23.46	34.77	-13.46
				1	24	22.91	21.26	23.41	34.77	-13.51
				12	6	21.88	20.23	22.38	34.77	-14.54
				25	0	22.04	20.39	22.54	34.77	-14.38
	23230	782	16QAM	1	0	23.05	21.40	23.55	34.77	-13.37
				1	24	22.95	21.30	23.45	34.77	-13.47
				12	6	22.01	20.36	22.51	34.77	-14.41
				25	0	21.88	20.23	22.38	34.77	-14.54
	23255	784.5	16QAM	1	0	23.00	21.35	23.50	34.77	-13.42
				1	24	23.02	21.37	23.52	34.77	-13.40
				12	6	22.04	20.39	22.54	34.77	-14.38
				25	0	22.02	20.37	22.52	34.77	-14.40
5	23205	779.5	64QAM	1	0	21.99	20.34	22.49	34.77	-14.43
				1	24	21.96	20.31	22.46	34.77	-14.46
				12	6	20.86	19.21	21.36	34.77	-15.56
				25	0	20.95	19.30	21.45	34.77	-15.47
	23230	782	64QAM	1	0	22.00	20.35	22.50	34.77	-14.42
				1	24	21.93	20.28	22.43	34.77	-14.49
				12	6	20.96	19.31	21.46	34.77	-15.46
				25	0	20.95	19.30	21.45	34.77	-15.47
	23255	784.5	64QAM	1	0	21.98	20.33	22.48	34.77	-14.44
				1	24	21.87	20.22	22.37	34.77	-14.55
				12	6	20.90	19.25	21.40	34.77	-15.52
				25	0	20.93	19.28	21.43	34.77	-15.49

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Antenna gain (dBi)		0.5								
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)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	24.09	22.44	24.59	34.77	-12.33
				1	49	24.02	22.37	24.52	34.77	-12.40
				25	12	22.95	21.30	23.45	34.77	-13.47
				50	0	23.02	21.37	23.52	34.77	-13.40
10	23230	782	16QAM	1	0	22.98	21.33	23.48	34.77	-13.44
				1	49	22.88	21.23	23.38	34.77	-13.54
				25	12	21.91	20.26	22.41	34.77	-14.51
				50	0	21.93	20.28	22.43	34.77	-14.49
10	23230	782	64QAM	1	0	21.87	20.22	22.37	34.77	-14.55
				1	49	21.85	20.20	22.35	34.77	-14.57
				25	12	20.92	19.27	21.42	34.77	-15.50
				50	0	20.96	19.31	21.46	34.77	-15.46

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Antenna gain (dBi)		-1.5								
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)	ERP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	23.90	20.25	22.40	34.77	-14.52
				1	24	23.82	20.17	22.32	34.77	-14.60
				12	6	22.95	19.30	21.45	34.77	-15.47
				25	0	22.95	19.30	21.45	34.77	-15.47
	23790	710	QPSK	1	0	23.81	20.16	22.31	34.77	-14.61
				1	24	23.83	20.18	22.33	34.77	-14.59
				12	6	22.90	19.25	21.40	34.77	-15.52
				25	0	22.83	19.18	21.33	34.77	-15.59
	23825	713.5	QPSK	1	0	23.79	20.14	22.29	34.77	-14.63
				1	24	23.90	20.25	22.40	34.77	-14.52
				12	6	22.85	19.20	21.35	34.77	-15.57
				25	0	22.82	19.17	21.32	34.77	-15.60
5	23755	706.5	16QAM	1	0	22.85	19.20	21.35	34.77	-15.57
				1	24	22.95	19.30	21.45	34.77	-15.47
				12	6	21.79	18.14	20.29	34.77	-16.63
				25	0	21.86	18.21	20.36	34.77	-16.56
	23790	710	16QAM	1	0	22.84	19.19	21.34	34.77	-15.58
				1	24	22.77	19.12	21.27	34.77	-15.65
				12	6	21.86	18.21	20.36	34.77	-16.56
				25	0	21.88	18.23	20.38	34.77	-16.54
	23825	713.5	16QAM	1	0	22.81	19.16	21.31	34.77	-15.61
				1	24	22.82	19.17	21.32	34.77	-15.60
				12	6	21.80	18.15	20.30	34.77	-16.62
				25	0	21.84	18.19	20.34	34.77	-16.58
5	23755	706.5	64QAM	1	0	21.80	18.15	20.30	34.77	-16.62
				1	24	21.72	18.07	20.22	34.77	-16.70
				12	6	20.80	17.15	19.30	34.77	-17.62
				25	0	20.67	17.02	19.17	34.77	-17.75
	23790	710	64QAM	1	0	21.76	18.11	20.26	34.77	-16.66
				1	24	21.66	18.01	20.16	34.77	-16.76
				12	6	20.79	17.14	19.29	34.77	-17.63
				25	0	20.71	17.06	19.21	34.77	-17.71
	23825	713.5	64QAM	1	0	21.64	17.99	20.14	34.77	-16.78
				1	24	21.68	18.03	20.18	34.77	-16.74
				12	6	20.79	17.14	19.29	34.77	-17.63
				25	0	20.78	17.13	19.28	34.77	-17.64

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Antenna gain (dBi)

-1.5

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)	ERP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	23.98	20.33	22.48	34.77	-14.44
				1	49	23.01	19.36	21.51	34.77	-15.41
				25	12	22.92	19.27	21.42	34.77	-15.50
				50	0	22.88	19.23	21.38	34.77	-15.54
	23790	710	QPSK	1	0	23.93	20.28	22.43	34.77	-14.49
				1	49	23.37	19.72	21.87	34.77	-15.05
				25	12	22.95	19.30	21.45	34.77	-15.47
				50	0	22.86	19.21	21.36	34.77	-15.56
	23800	711	QPSK	1	0	24.03	20.38	22.53	34.77	-14.39
				1	49	24.01	20.36	22.51	34.77	-14.41
				25	12	22.93	19.28	21.43	34.77	-15.49
				50	0	22.93	19.28	21.43	34.77	-15.49
10	23780	709	16QAM	1	0	22.82	19.17	21.32	34.77	-15.60
				1	49	22.86	19.21	21.36	34.77	-15.56
				25	12	21.87	18.22	20.37	34.77	-16.55
				50	0	21.93	18.28	20.43	34.77	-16.49
	23790	710	16QAM	1	0	22.80	19.15	21.30	34.77	-15.62
				1	49	22.80	19.15	21.30	34.77	-15.62
				25	12	21.89	18.24	20.39	34.77	-16.53
				50	0	21.77	18.12	20.27	34.77	-16.65
	23800	711	16QAM	1	0	22.89	19.24	21.39	34.77	-15.53
				1	49	22.77	19.12	21.27	34.77	-15.65
				25	12	21.77	18.12	20.27	34.77	-16.65
				50	0	21.81	18.16	20.31	34.77	-16.61
10	23780	709	64QAM	1	0	21.77	18.12	20.27	34.77	-16.65
				1	49	21.71	18.06	20.21	34.77	-16.71
				25	12	20.66	17.01	19.16	34.77	-17.76
				50	0	20.61	16.96	19.11	34.77	-17.81
	23790	710	64QAM	1	0	21.78	18.13	20.28	34.77	-16.64
				1	49	21.71	18.06	20.21	34.77	-16.71
				25	12	20.76	17.11	19.26	34.77	-17.66
				50	0	20.74	17.09	19.24	34.77	-17.68
	23800	711	64QAM	1	0	21.71	18.06	20.21	34.77	-16.71
				1	49	21.61	17.96	20.11	34.77	-16.81
				25	12	20.74	17.09	19.24	34.77	-17.68
				50	0	20.79	17.14	19.29	34.77	-17.63

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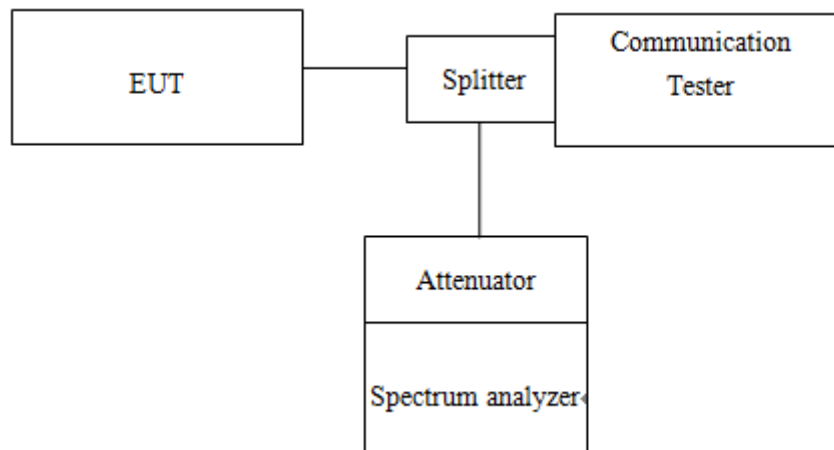
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7 OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

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

7.2 Test Set-up



7.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

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

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7.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
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
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
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)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.15530	4.17460	4.17450	4.688	4.684	4.668
1880.00	9400	4.15350	4.16390	4.17730	4.693	4.650	4.662
1907.60	9538	4.16090	4.16710	4.15420	4.689	4.678	4.666
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	4.17870	4.16420	4.16770	4.701	4.668	4.684
836.60	4183	4.18550	4.19010	4.18240	4.759	5.014	4.670
846.60	4233	4.17750	4.16820	4.18230	4.714	4.680	4.696

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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	1.0963	1.1020	1.1010	1.280	1.304	1.296
1880.0	18900	1.0946	1.1018	1.1011	1.270	1.294	1.306
1909.3	19193	1.0963	1.1021	1.0990	1.271	1.302	1.291

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	4.4907	4.4862	4.4990	4.942	4.947	4.935
1880.0	18900	4.4909	4.4867	4.4953	4.926	4.950	4.939
1907.5	19175	4.4891	4.4918	4.5000	5.128	4.920	4.891

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	13.495	13.463	13.452	14.647	14.616	14.569
1880.0	18900	13.501	13.475	13.454	14.677	14.661	14.708
1902.5	19125	13.479	13.458	13.441	14.669	14.617	14.598

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	1.0962	1.1011	1.0991	1.276	1.299	1.299
1732.5	20175	1.0967	1.1022	1.1024	1.281	1.307	1.304
1754.3	20393	1.0957	1.1013	1.1000	1.283	1.306	1.300

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19975	4.4902	4.4914	4.5018	4.955	4.898	5.176
1732.5	20175	4.4928	4.4942	4.5002	5.088	4.949	5.411
1752.5	20375	4.4877	4.4933	4.4979	4.942	4.932	4.921

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	13.500	13.478	13.478	14.622	14.830	14.574
1732.5	20175	13.524	13.494	13.482	14.619	14.684	14.581
1747.5	20325	13.469	13.432	13.408	14.546	14.564	14.627

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	2.6849	2.6848	2.6936	2.913	2.929	2.913
1880.0	18900	2.6898	2.6904	2.6948	2.934	2.914	2.913
1908.5	19185	2.6899	2.6890	2.6930	2.931	2.926	2.916

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	8.9880	8.9612	8.9735	9.784	9.735	9.780
1880.0	18900	8.9890	8.9705	8.9773	9.722	9.733	9.830
1905.0	19150	8.9920	8.9836	8.9726	9.782	9.720	9.807

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	17.956	17.967	17.956	19.387	19.384	19.467
1880.0	18900	17.929	17.950	17.934	19.367	19.966	19.369
1900.0	19100	17.933	17.965	17.914	19.373	19.354	19.364

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	2.6886	2.6860	2.6937	3.144	2.914	2.906
1732.5	20175	2.6921	2.6909	2.6898	2.913	2.934	2.910
1753.5	20385	2.6874	2.6875	2.6951	2.919	2.914	2.907

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	8.9910	8.9553	8.9928	9.848	9.694	9.787
1732.5	20175	9.0263	8.9877	8.9853	9.776	9.704	9.801
1750.0	20350	9.0057	8.9543	8.9613	9.747	9.732	9.767

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	17.995	17.996	17.976	19.789	19.406	19.536
1732.5	20175	17.984	18.005	17.997	19.458	19.368	19.407
1745.0	20300	17.870	17.903	17.884	19.310	19.298	19.673

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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	4.5118	4.5098	4.5262	5.271	5.187	5.209
782.0	23230	4.5174	4.5043	4.5190	5.279	5.128	5.169
784.5	23255	4.5021	4.4988	4.5082	5.252	5.417	5.124

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	8.970	8.964	8.998	9.967	9.938	10.050

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	4.5056	4.5083	4.5200	5.157	5.133	5.172
710.0	23790	4.4920	4.4904	4.5123	5.160	5.145	5.303
713.5	23825	4.5234	4.5101	4.5348	5.252	5.166	5.171

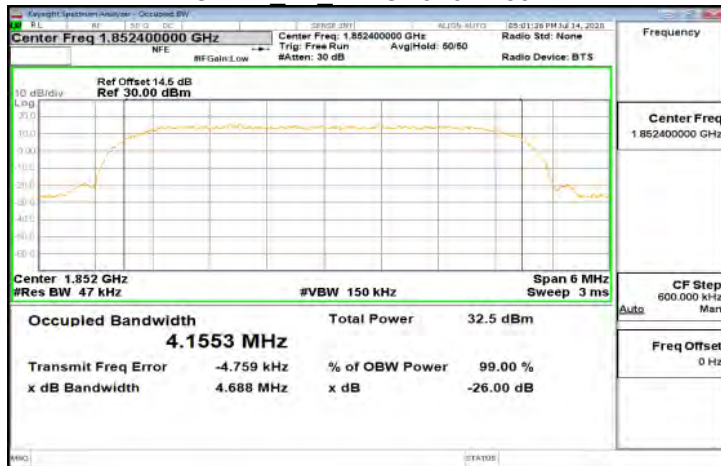
LTE BAND 17 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
709.0	23780	9.0004	8.9287	8.9471	10.320	10.033	10.120
710.0	23790	8.9551	8.9279	8.9379	9.943	9.878	9.865
711.0	23800	8.9768	8.9486	8.9571	10.020	9.984	9.950

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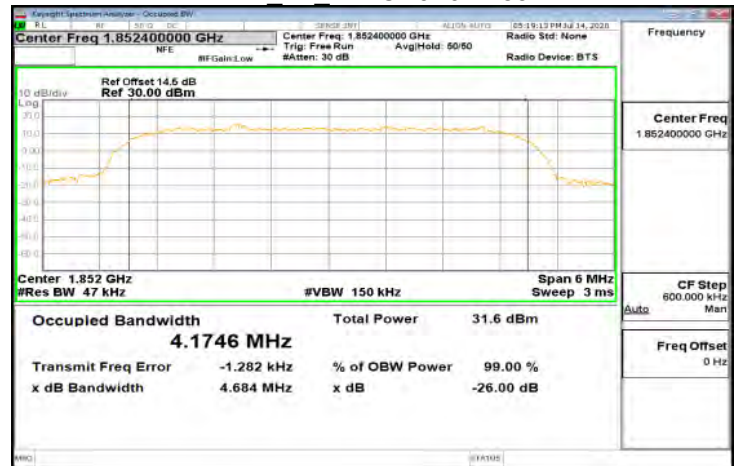
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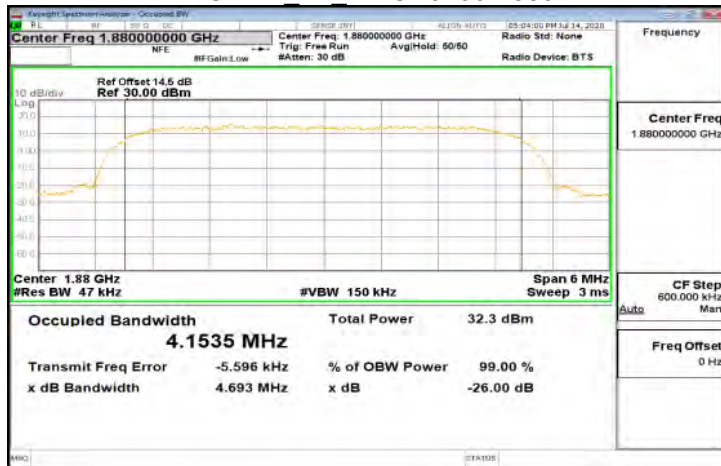
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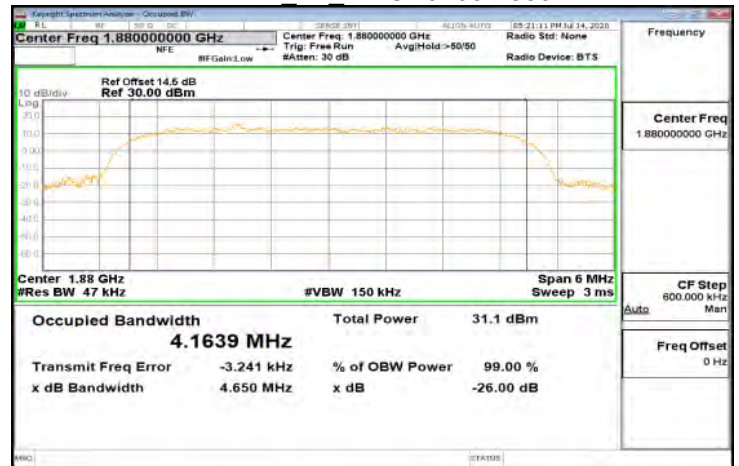
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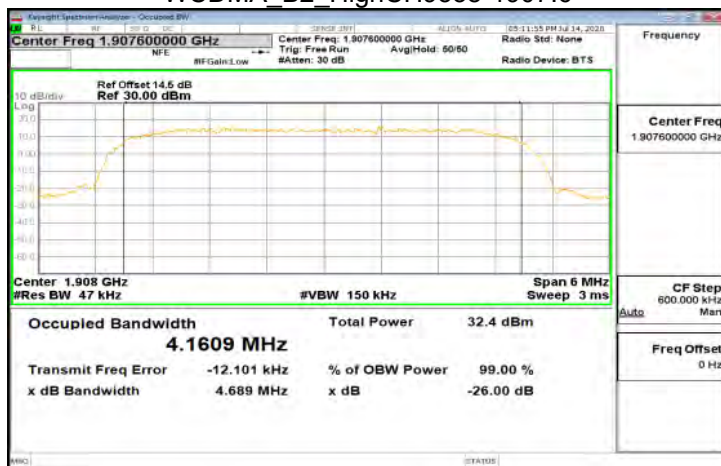
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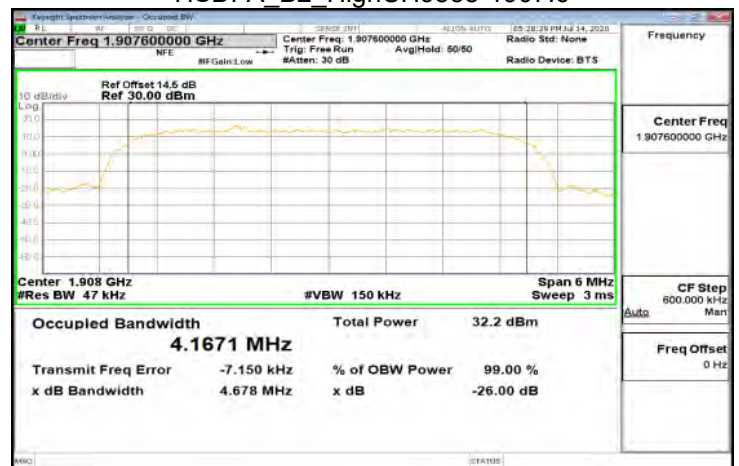
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WCDMA B2 HighCH9538-1907.6



HSDPA B2 HighCH9538-1907.6

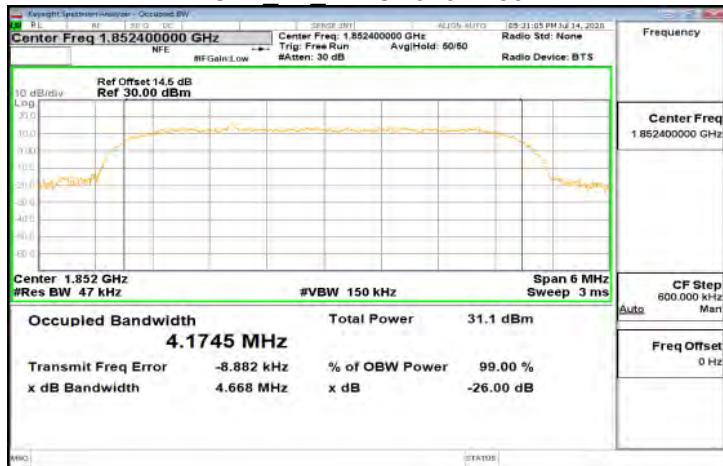


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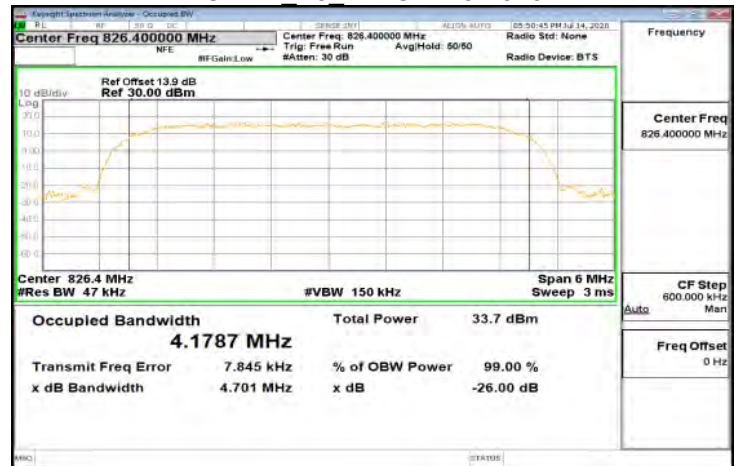
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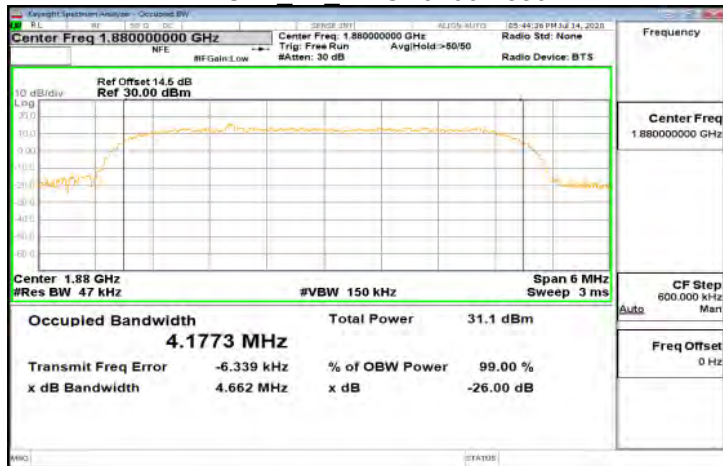
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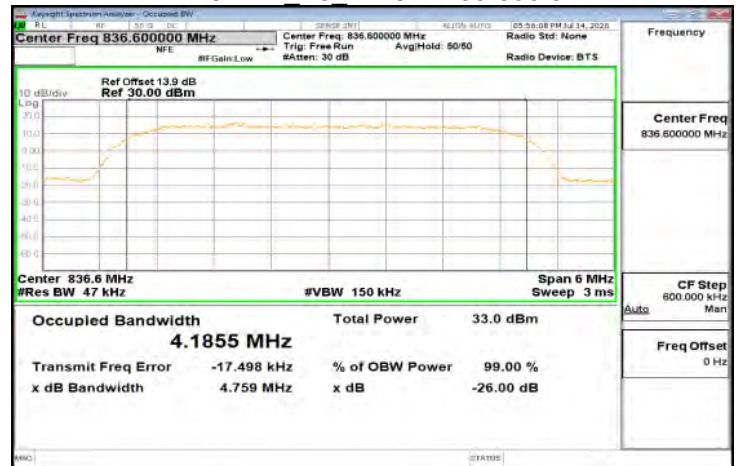
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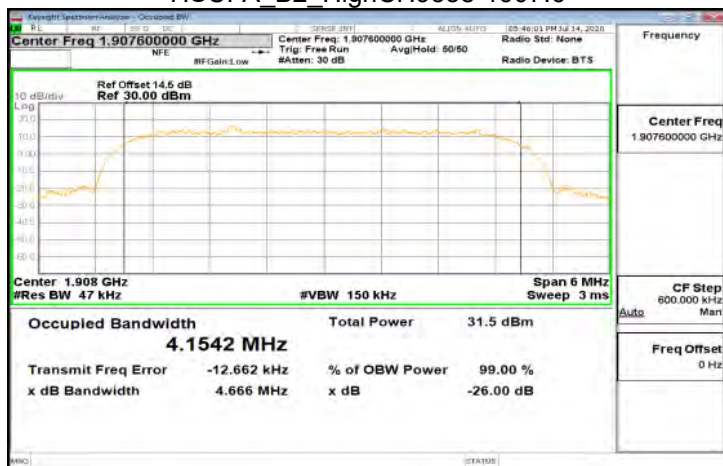
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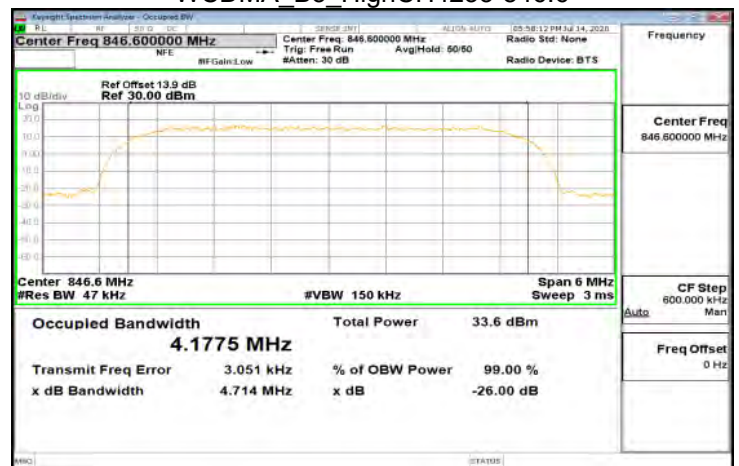
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HSUPA B2 HighCH9538-1907.6



WCDMA B5 HighCH4233-846.6

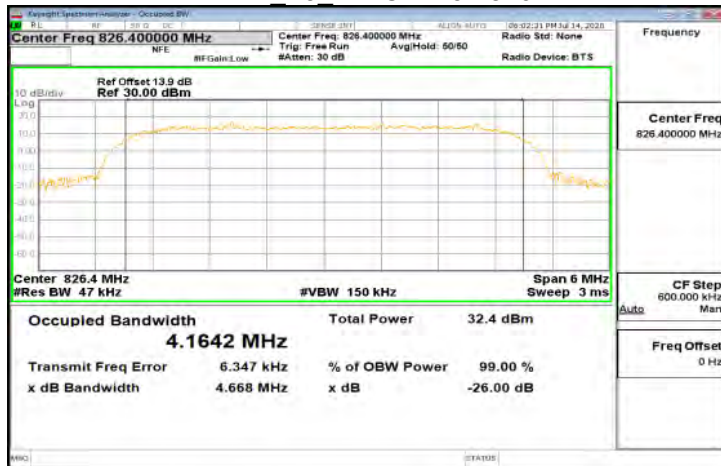


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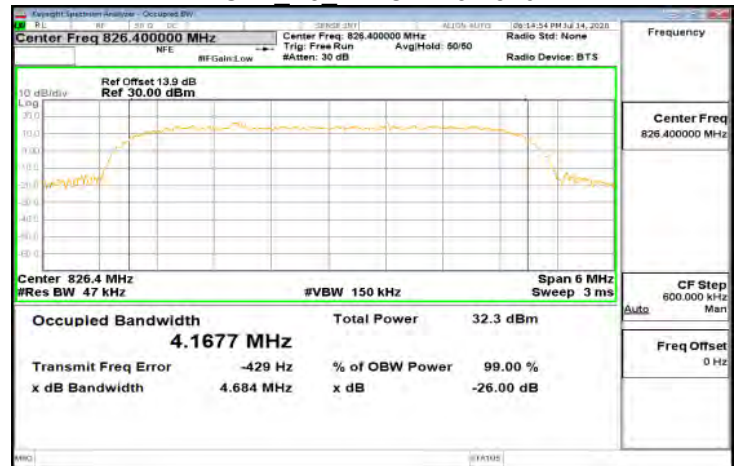
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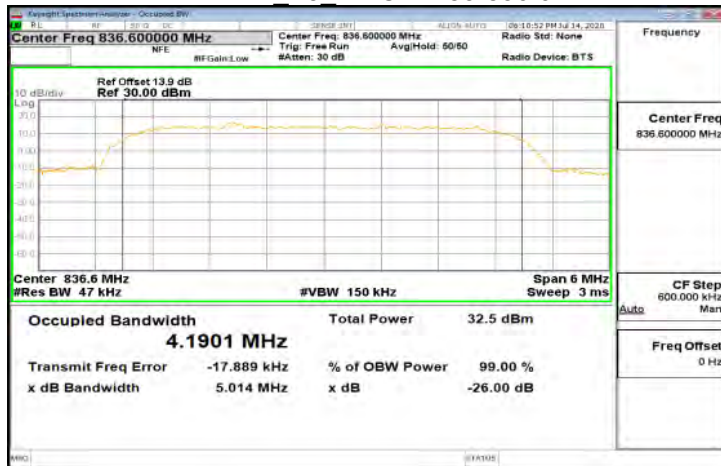
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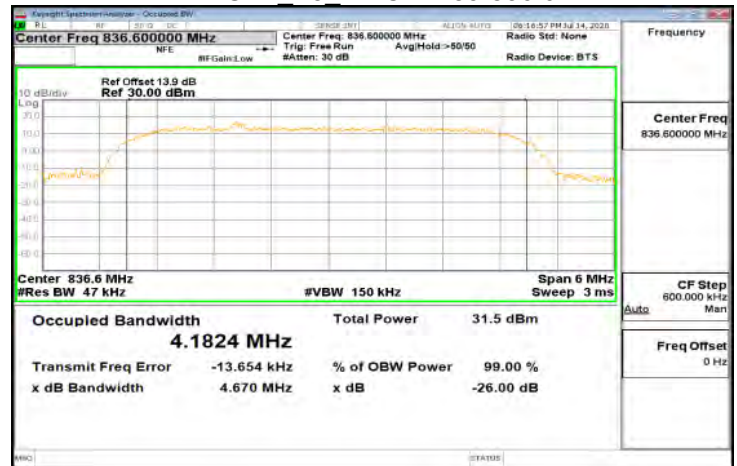
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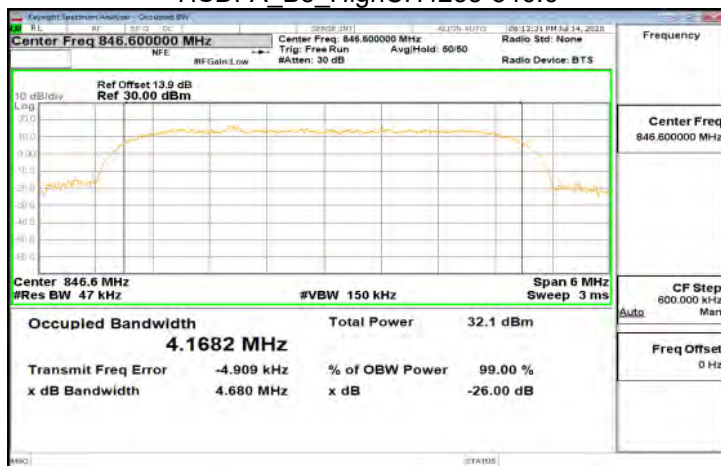
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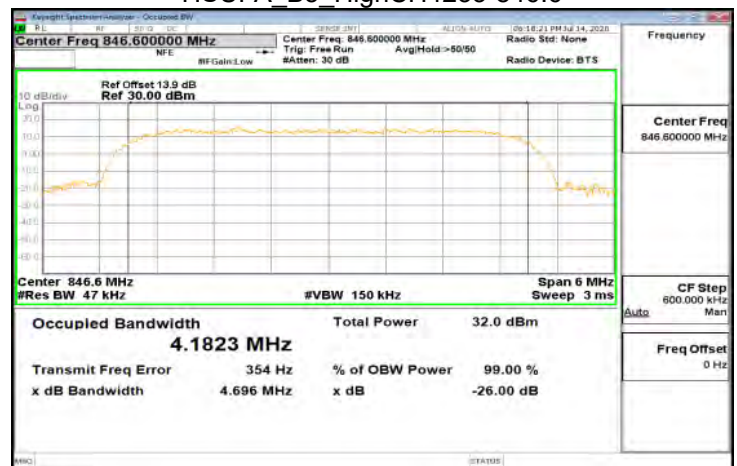
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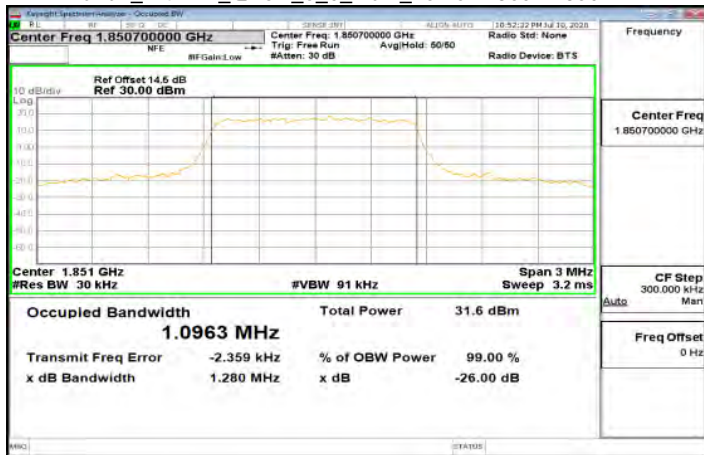


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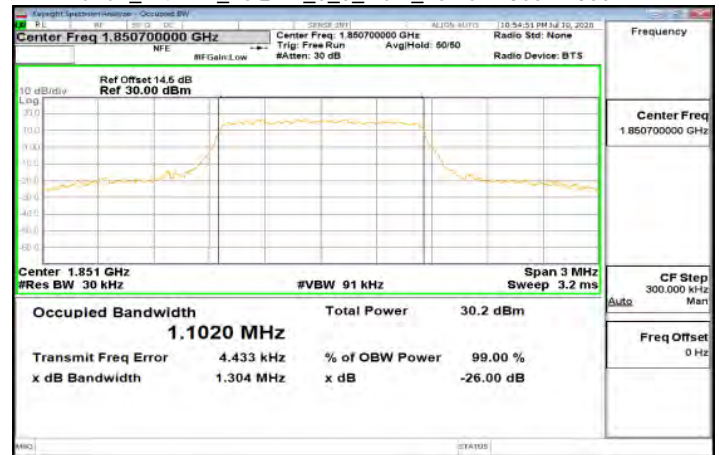
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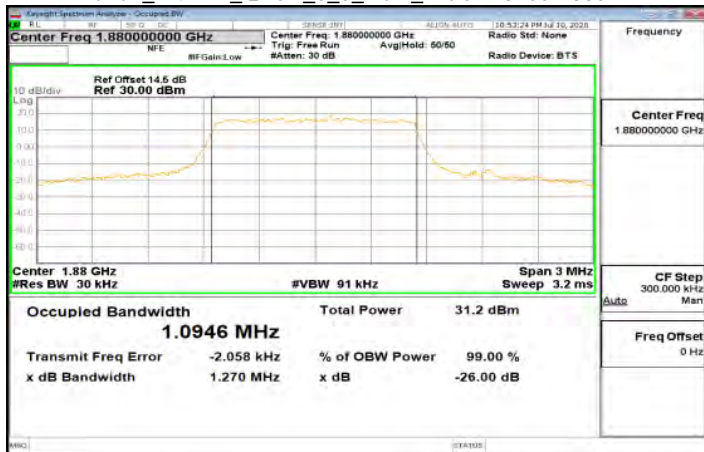
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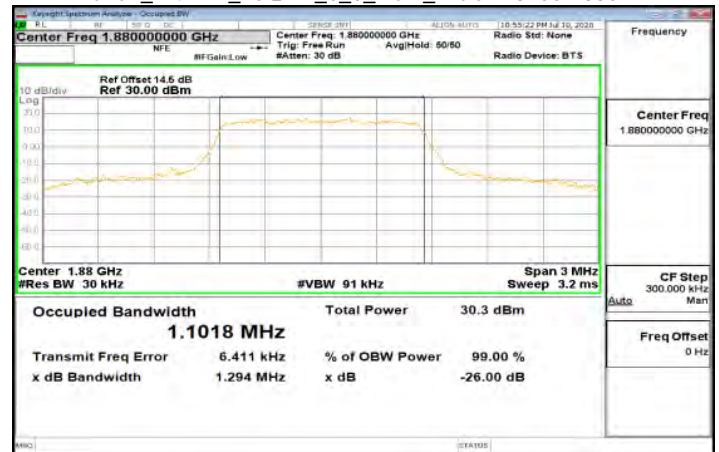
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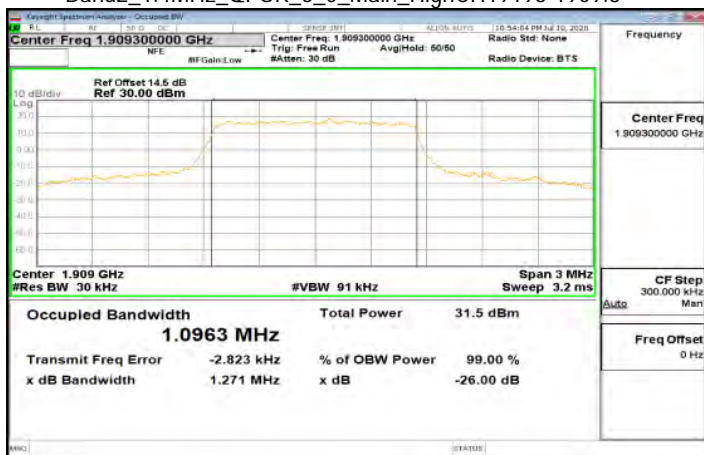
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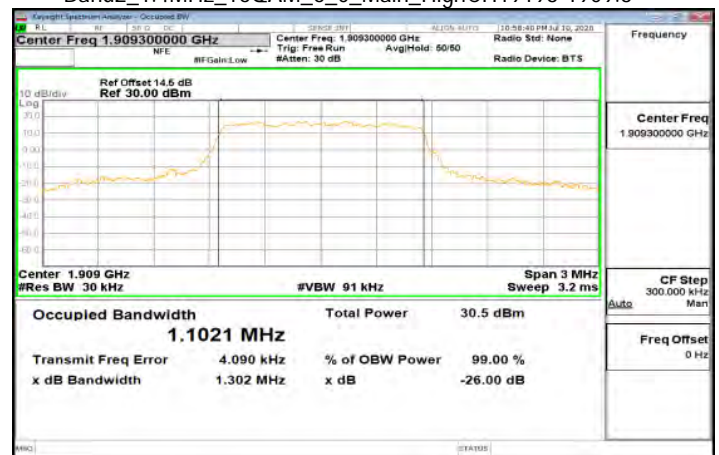
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Band2_1.4MHz_QPSK_6_0_Main_HighCH19193-1909.3



Band2_1.4MHz_16QAM_6_0_Main_HighCH19193-1909.3

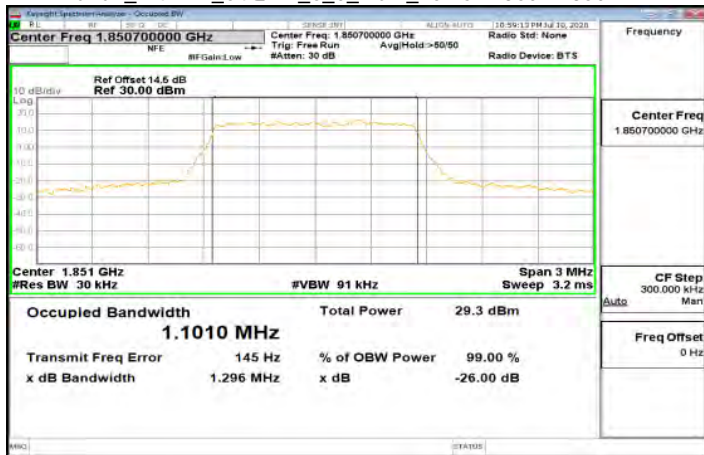


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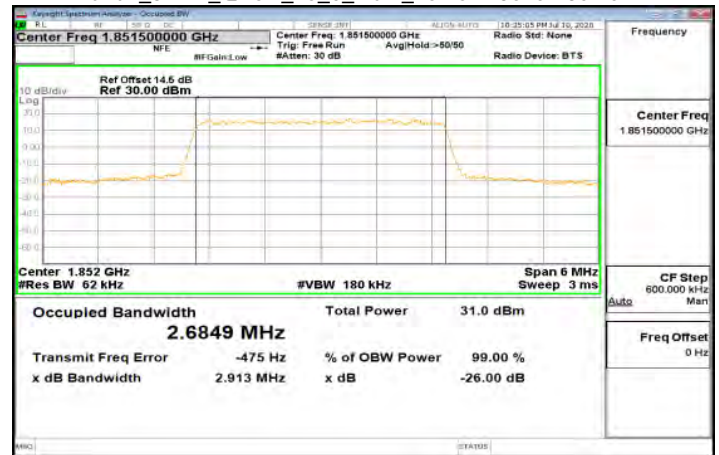
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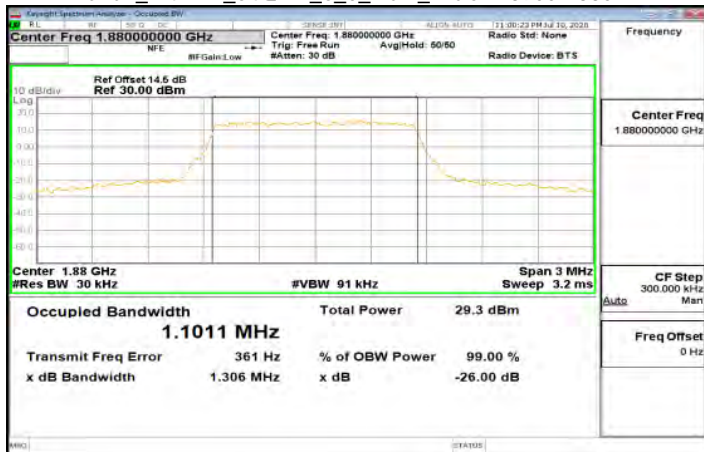
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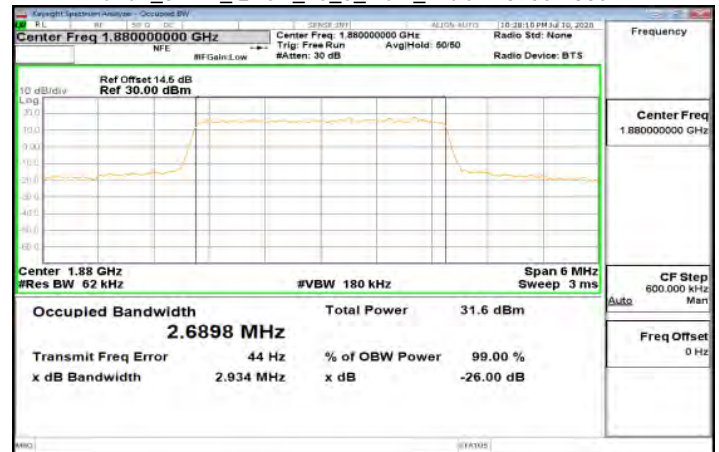
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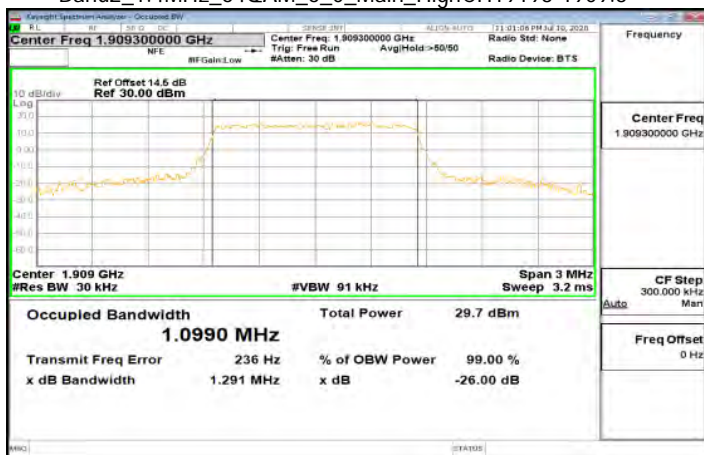
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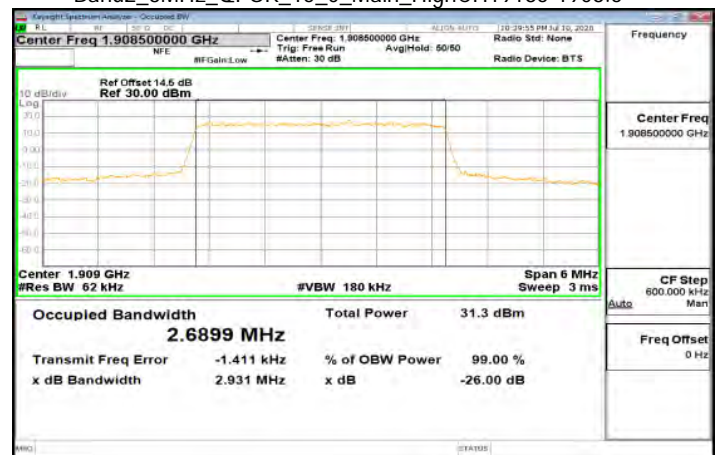
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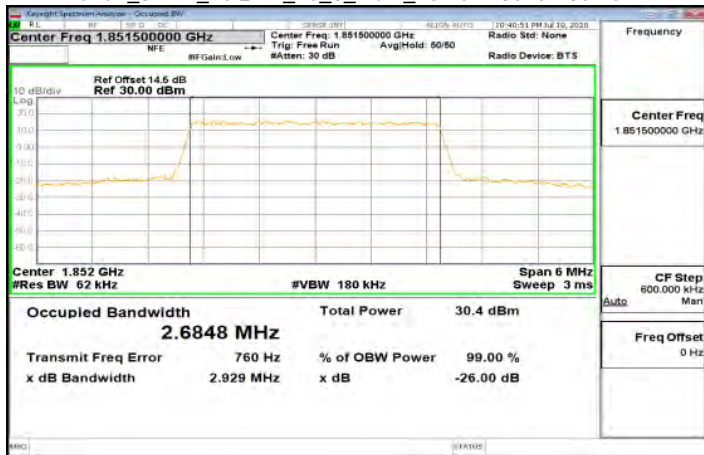


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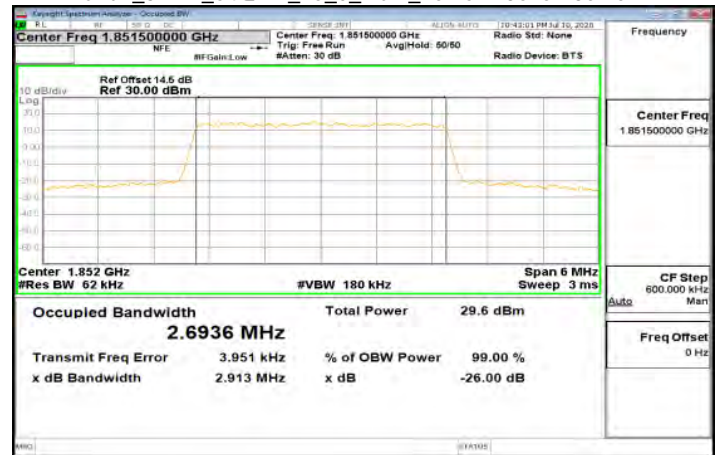
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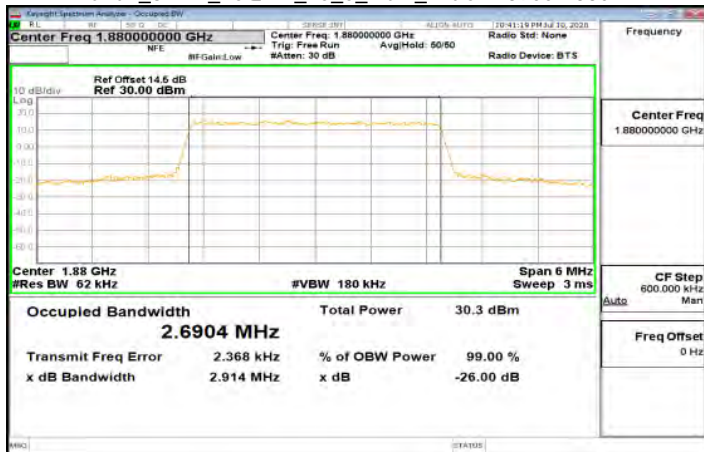
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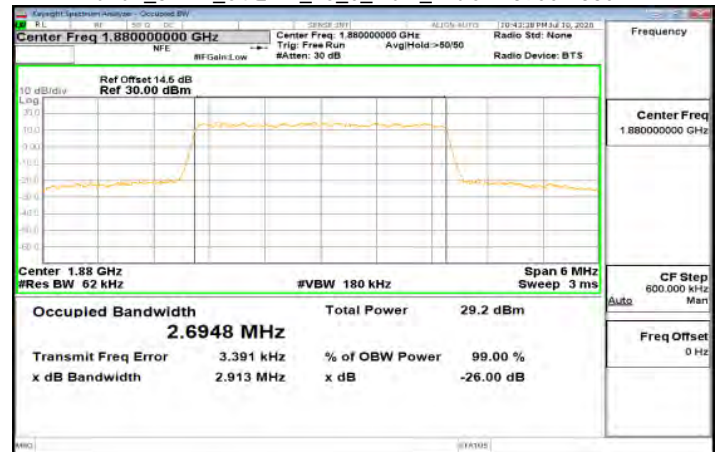
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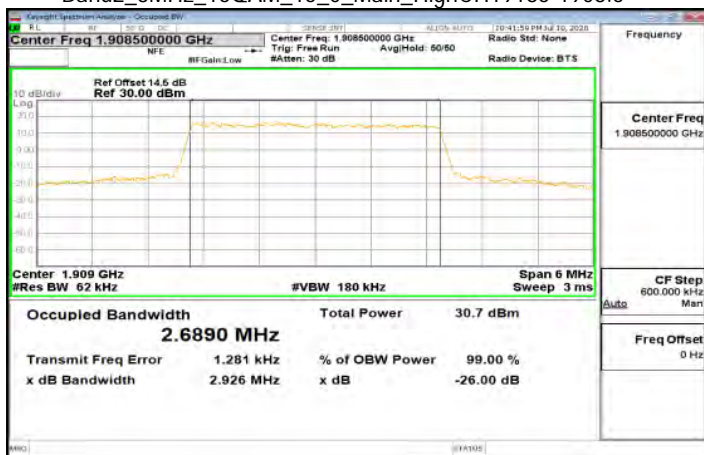
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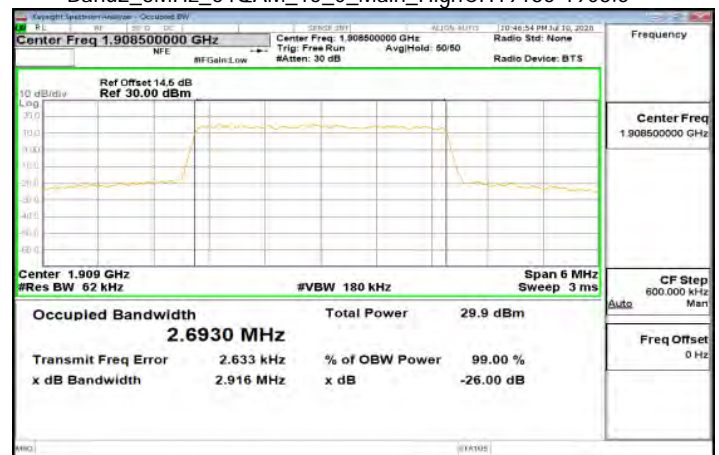
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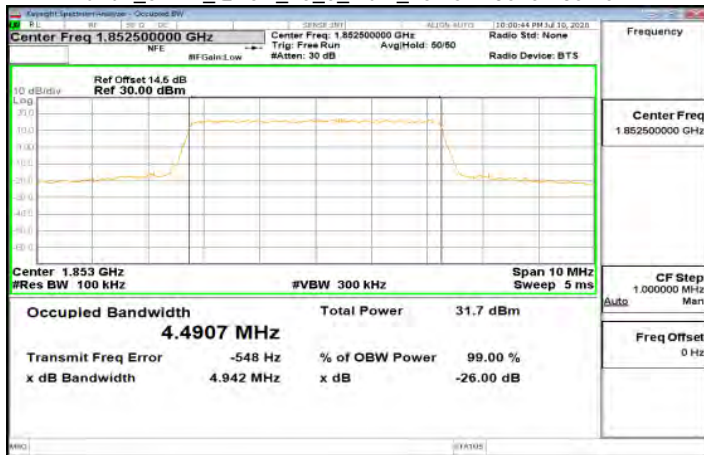


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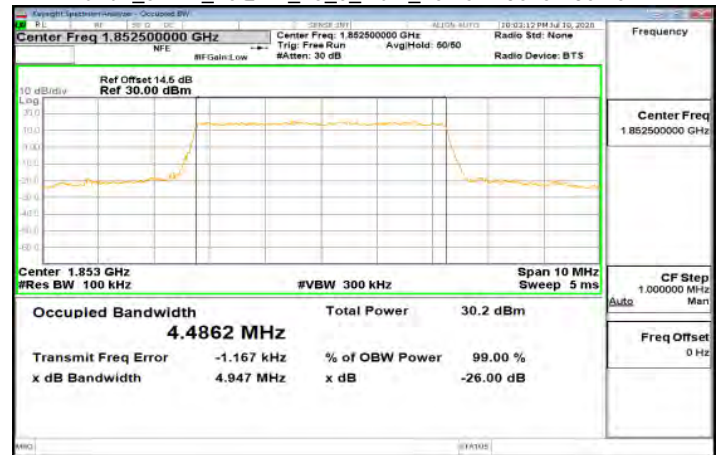
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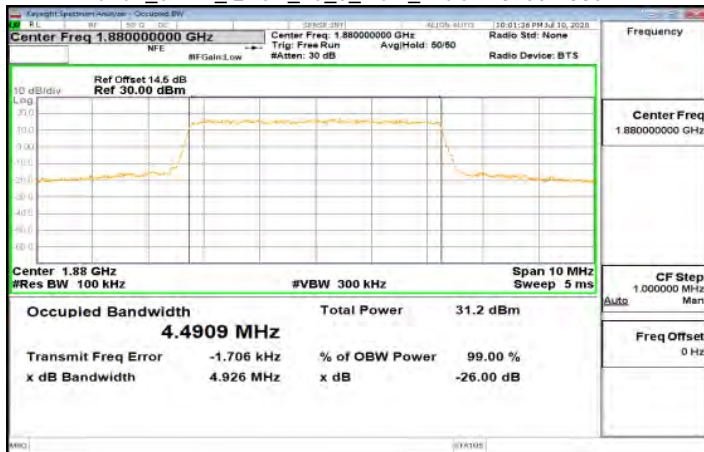
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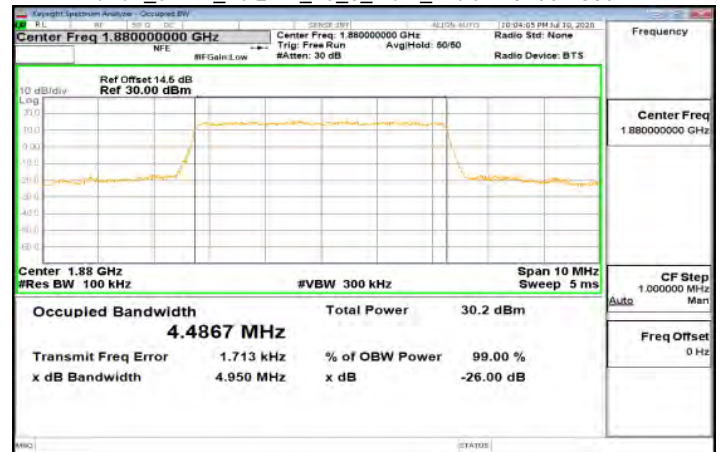
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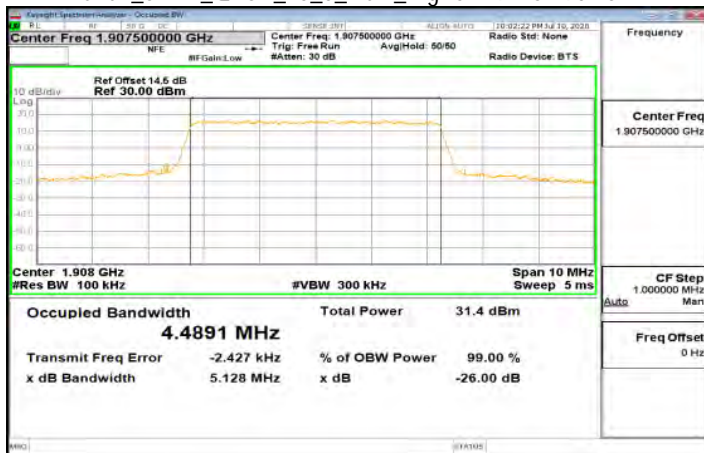
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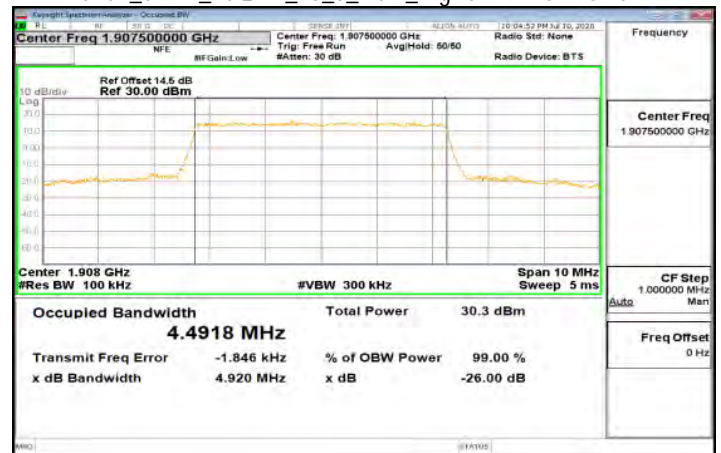
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Band2_5MHz_QPSK_25_0_Main_HighCH19175-1907.5



Band2_5MHz_16QAM_25_0_Main_HighCH19175-1907.5

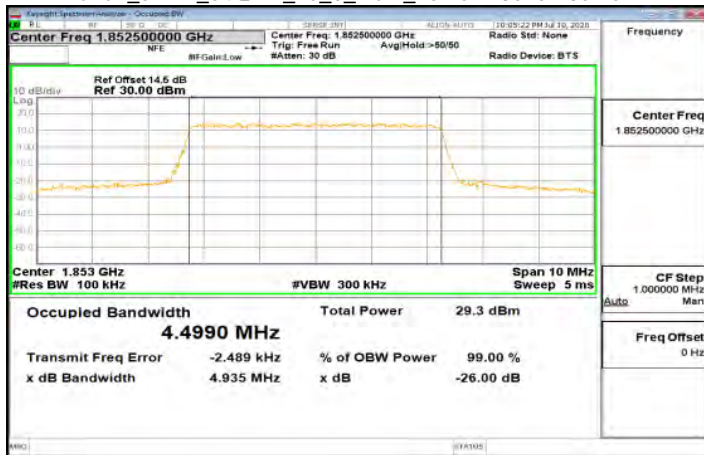


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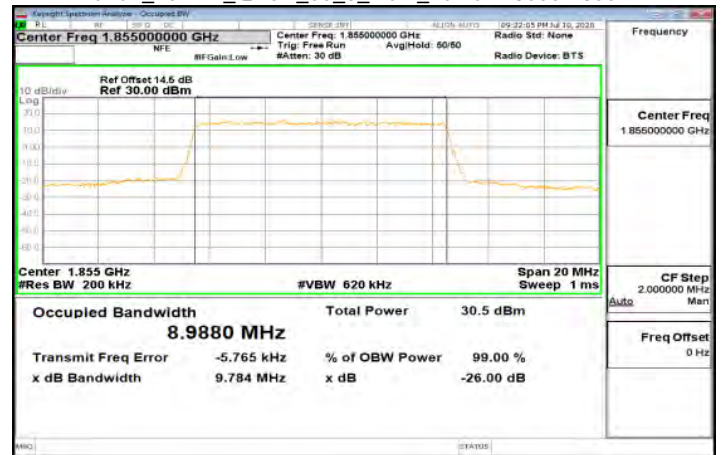
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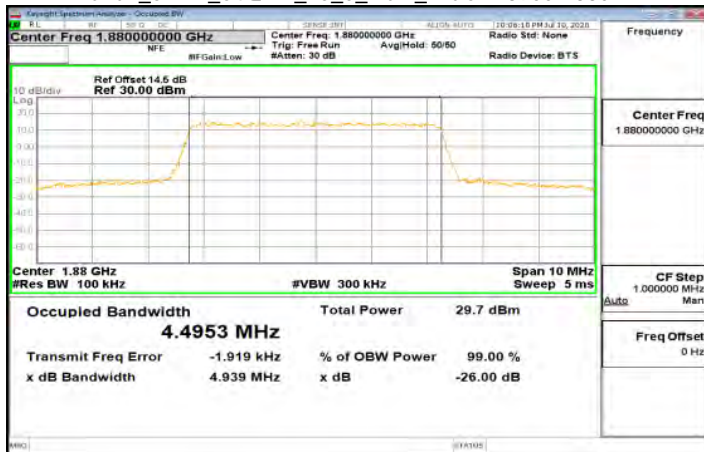
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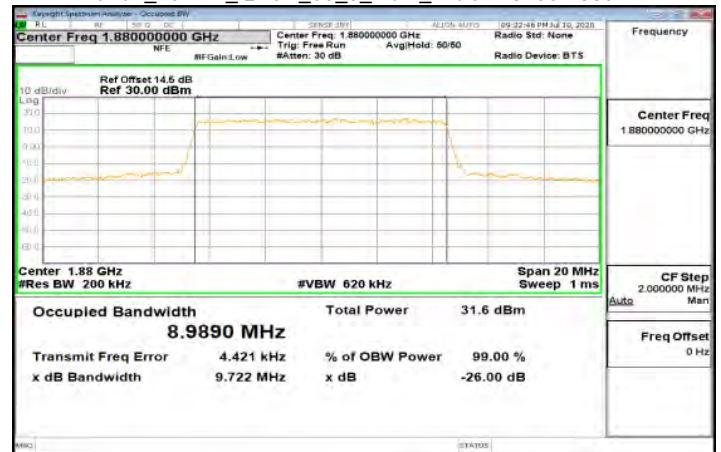
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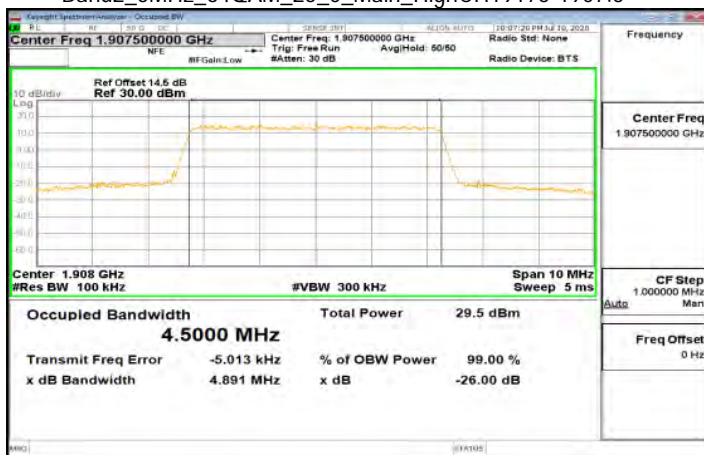
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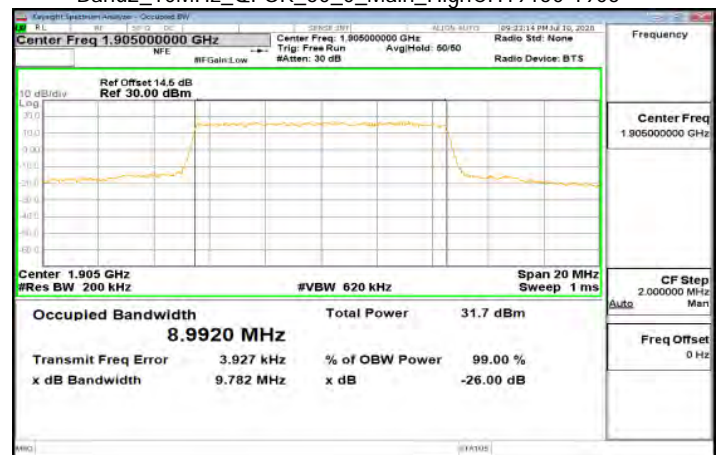
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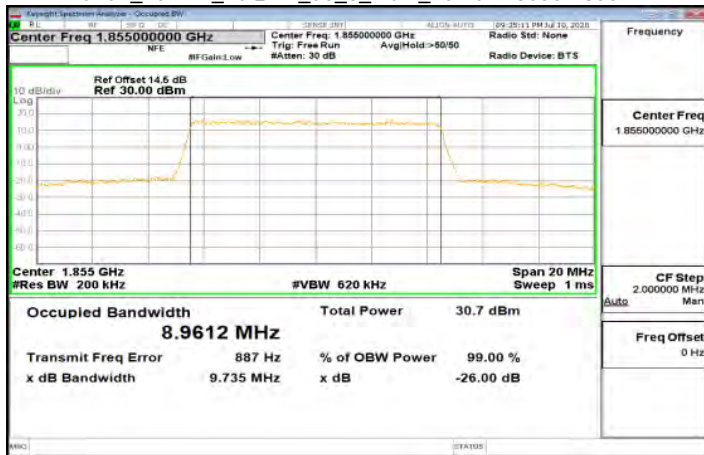


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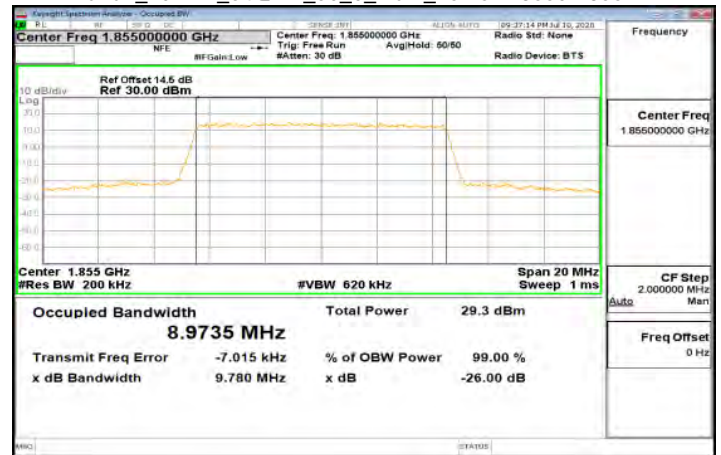
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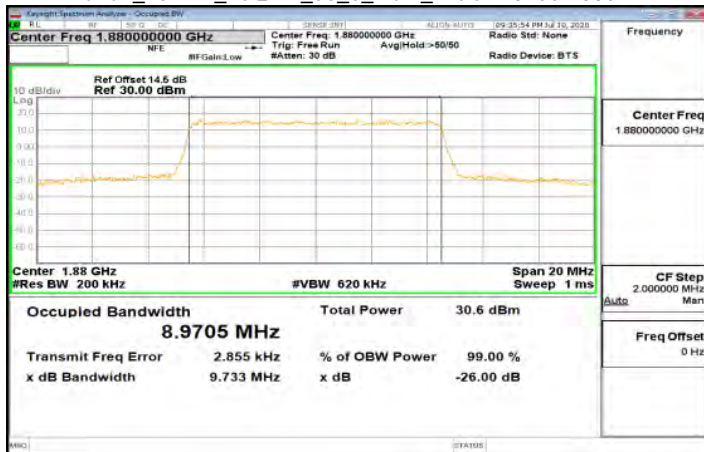
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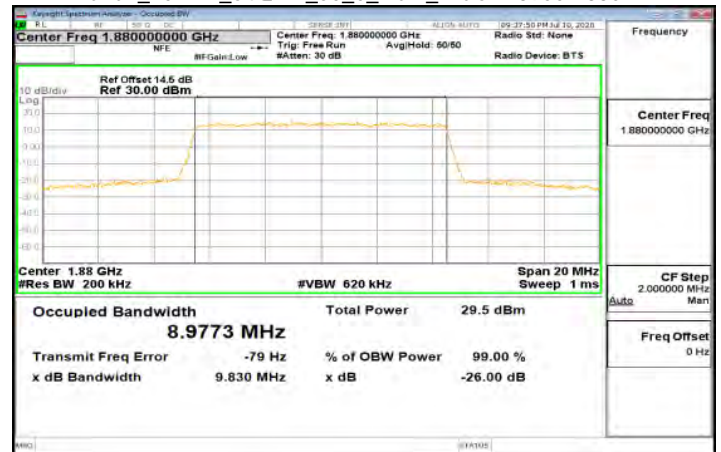
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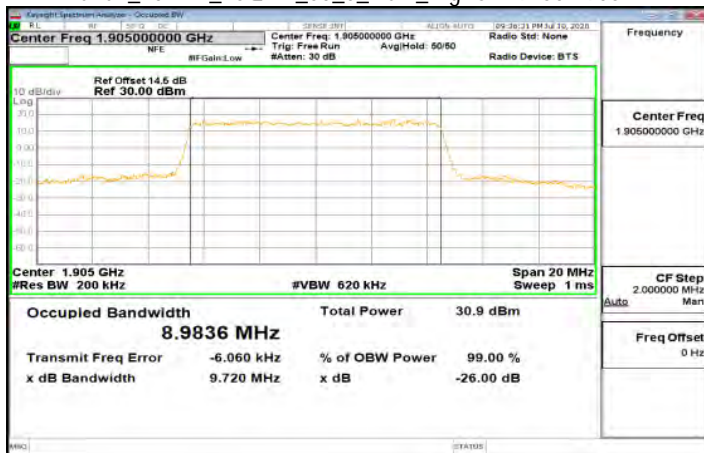
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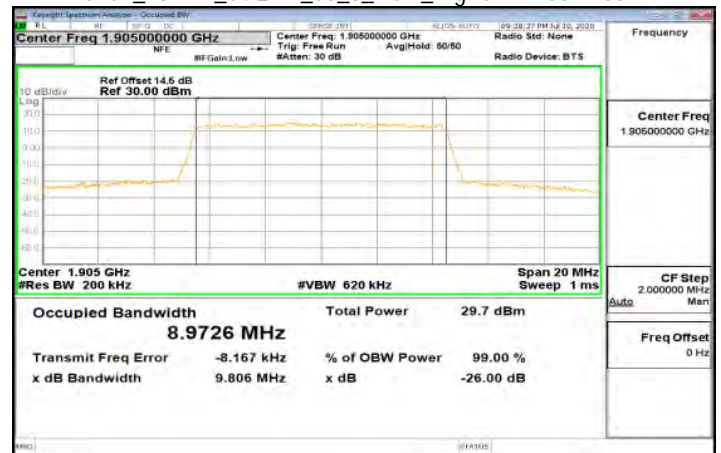
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Band2_10MHz_16QAM_50_0_Main_HighCH19150-1905



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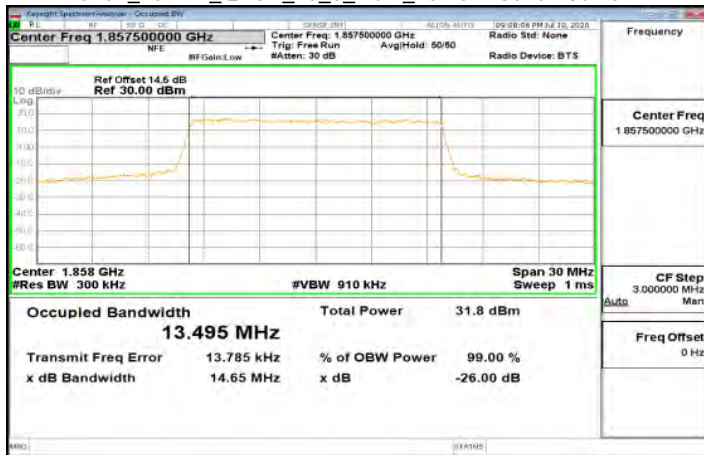


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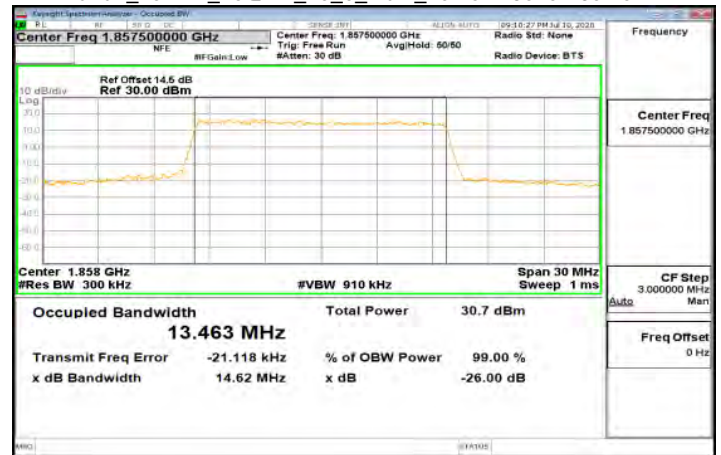
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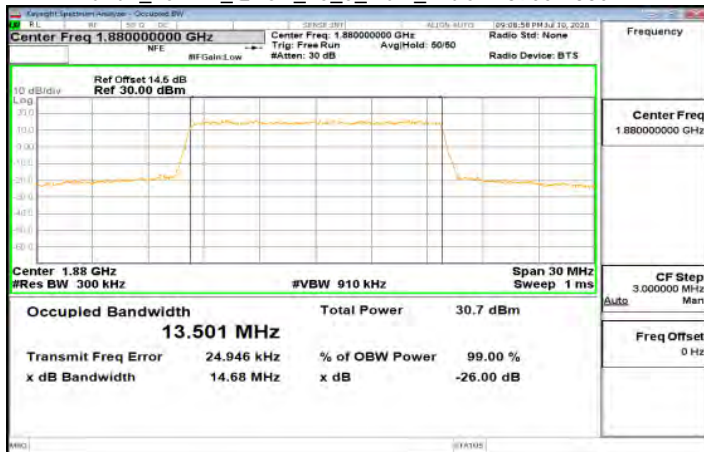
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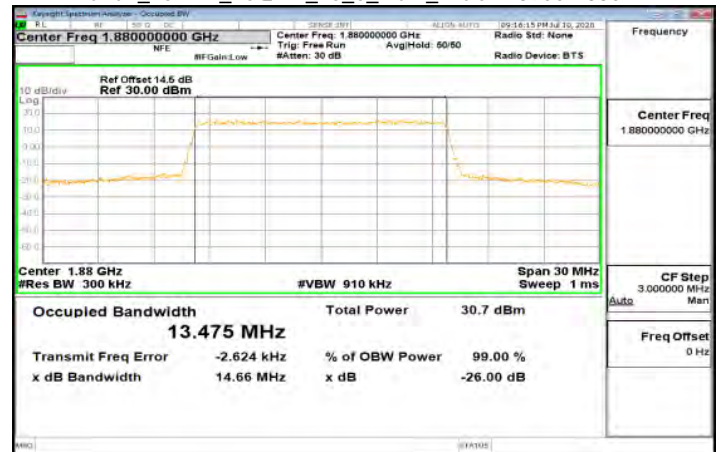
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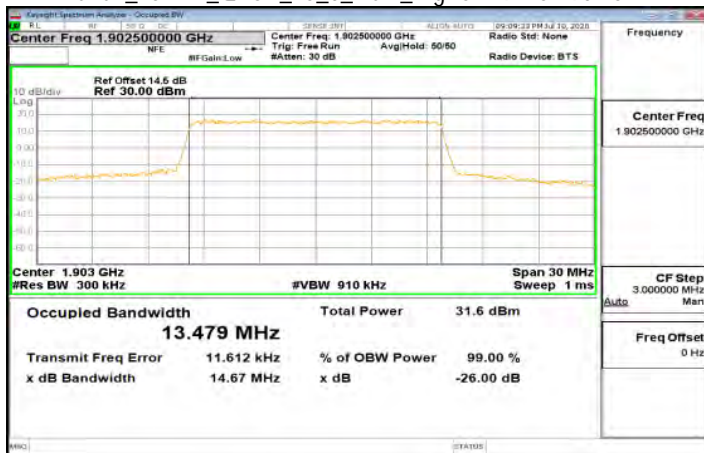
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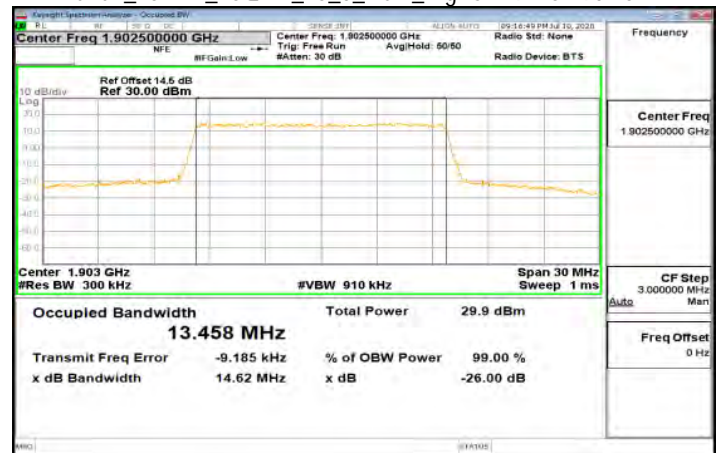
Band2_15MHz_16QAM_75_0_Main_MidCH18900-1880



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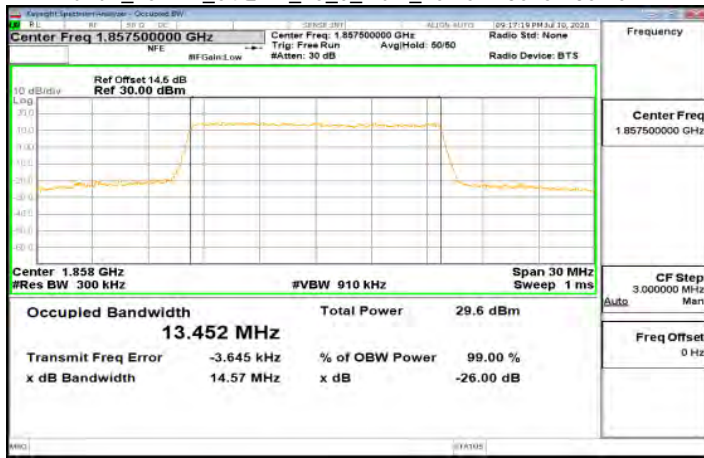


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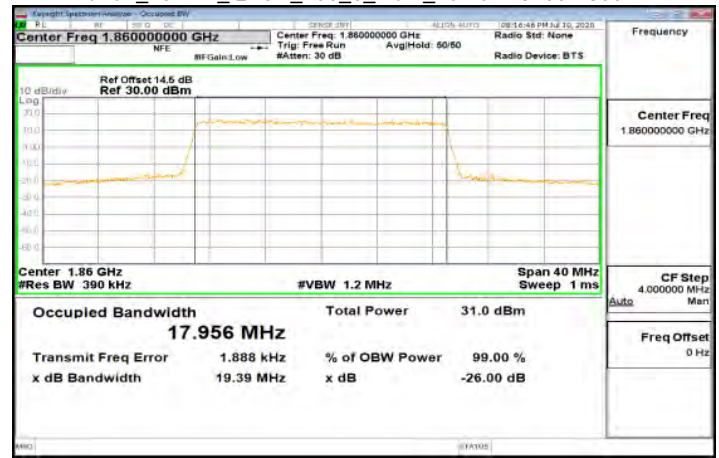
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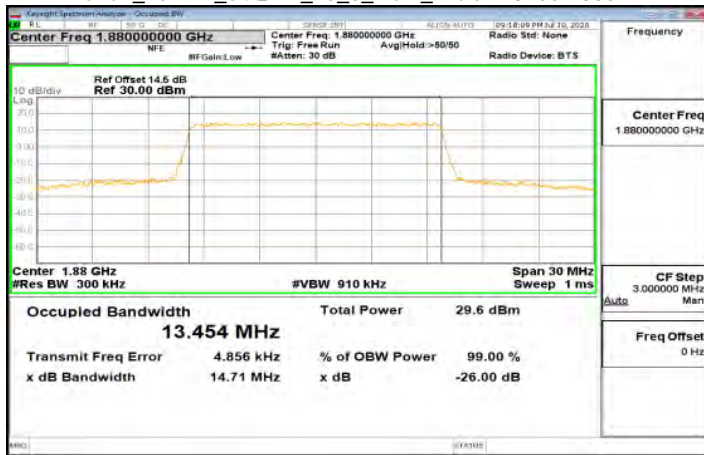
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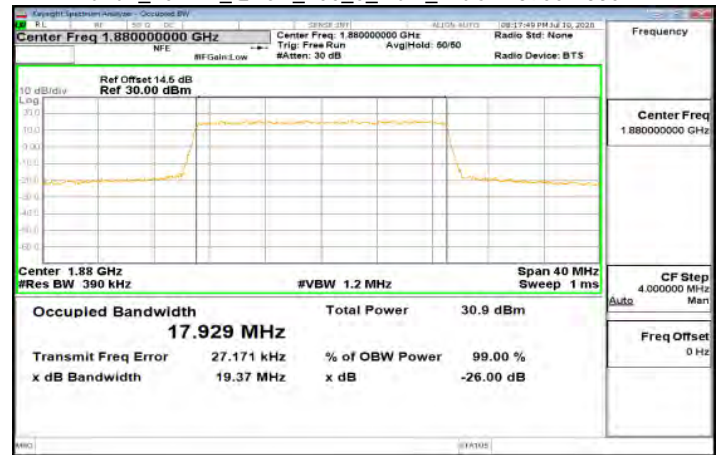
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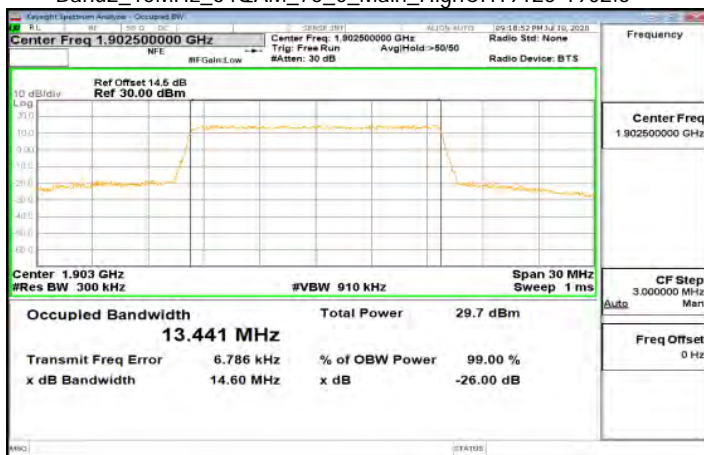
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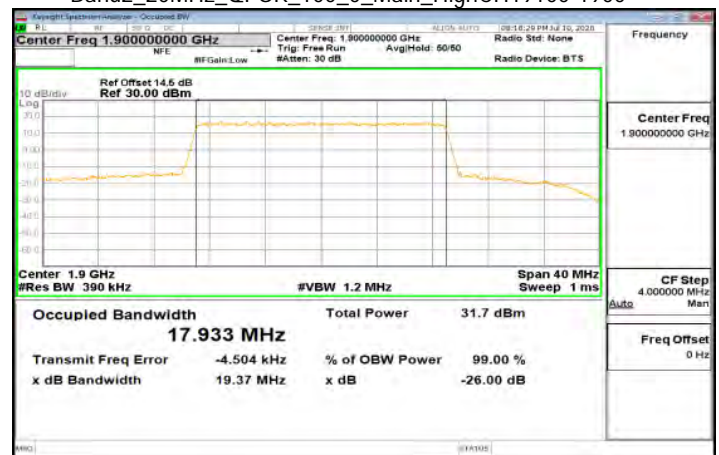
Band2_20MHz_QPSK_100_0_Main_MidCH18900-1880



Band2_15MHz_64QAM_75_0_Main_HighCH19125-1902.5



Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900

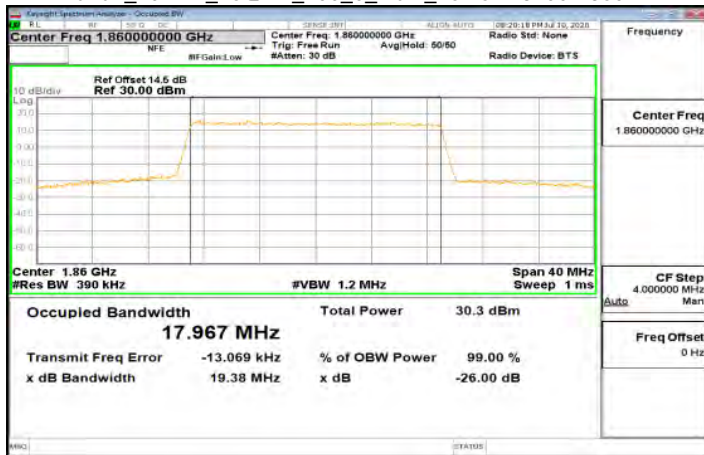


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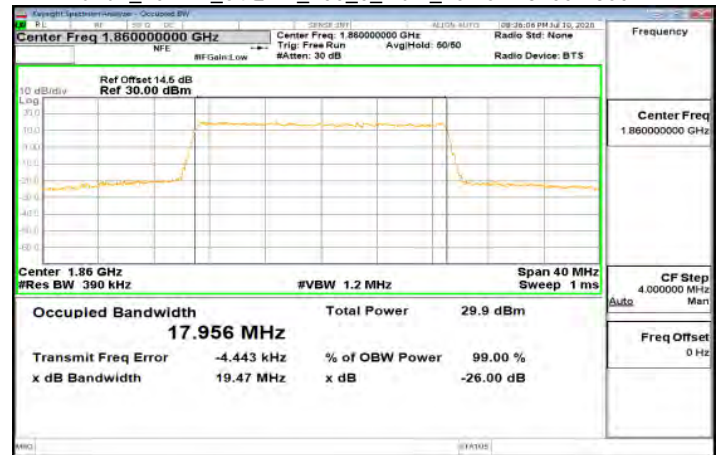
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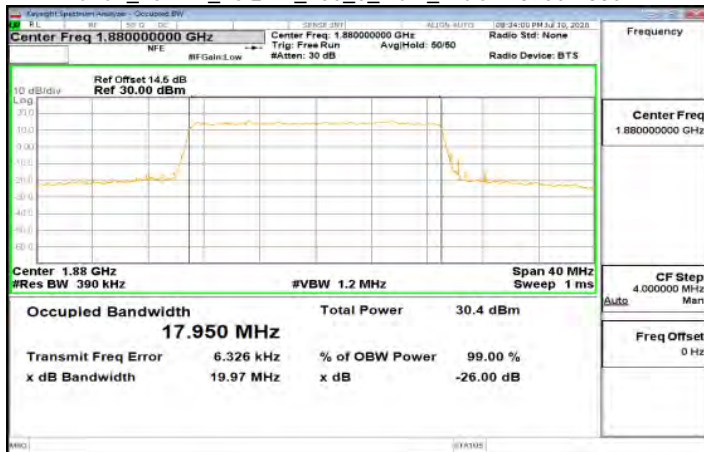
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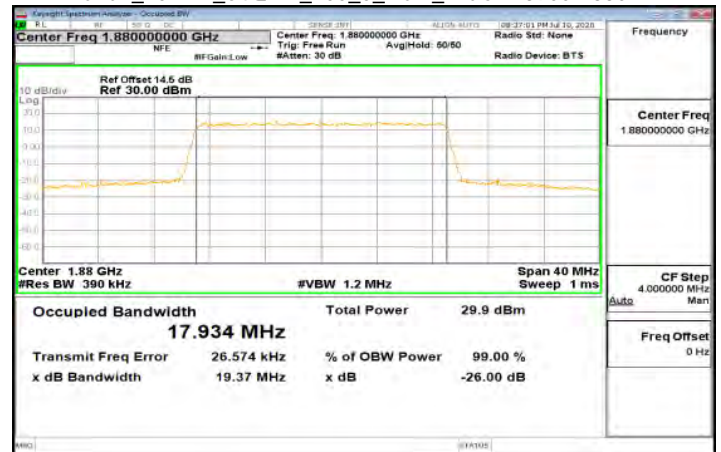
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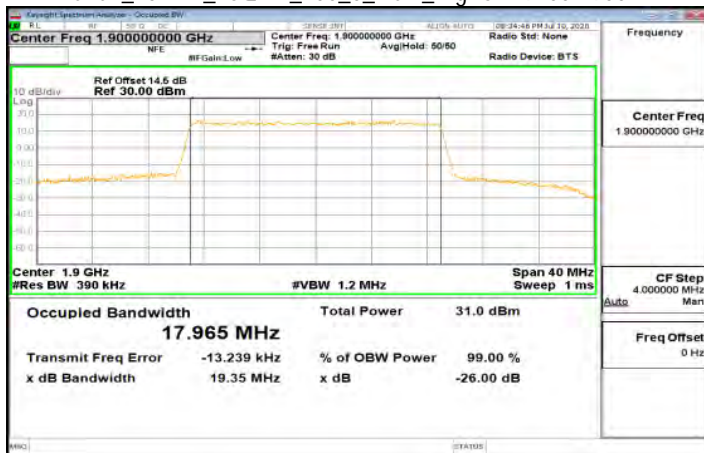
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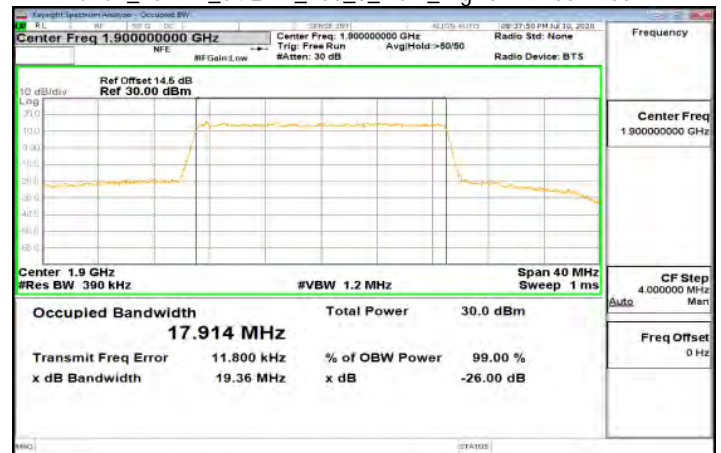
Band2_20MHz_64QAM_100_0_Main_MidCH18900-1880



Band2_20MHz_16QAM_100_0_Main_HighCH19100-1900



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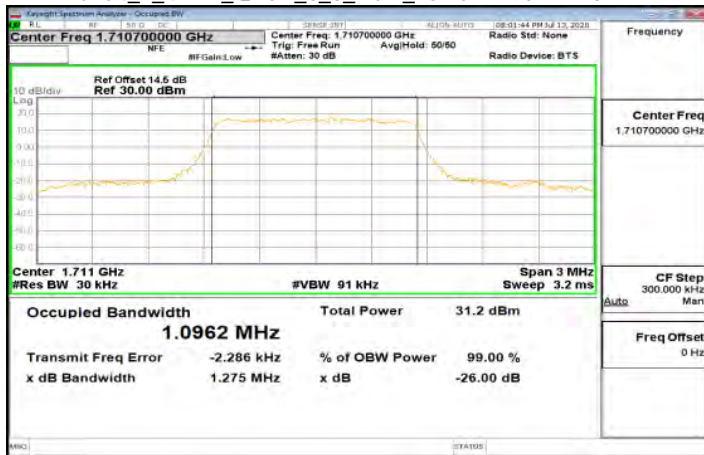


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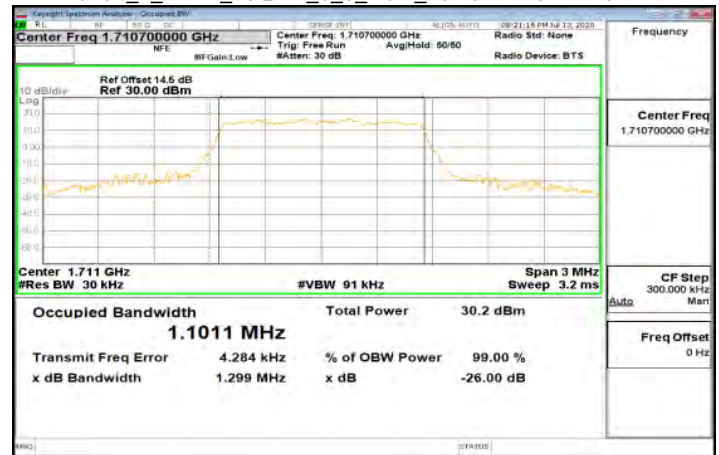
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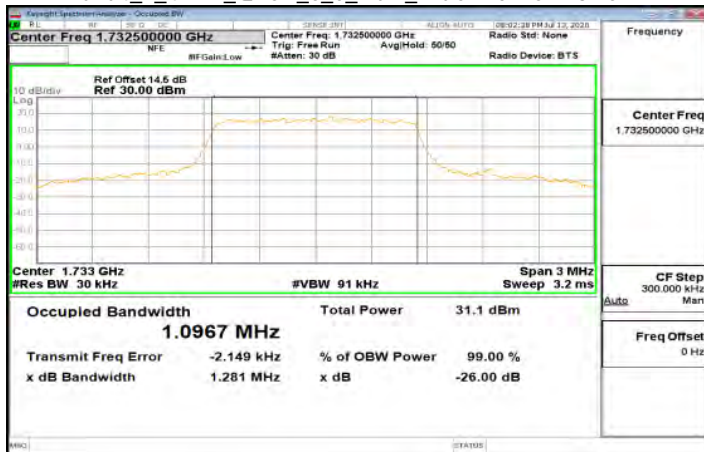
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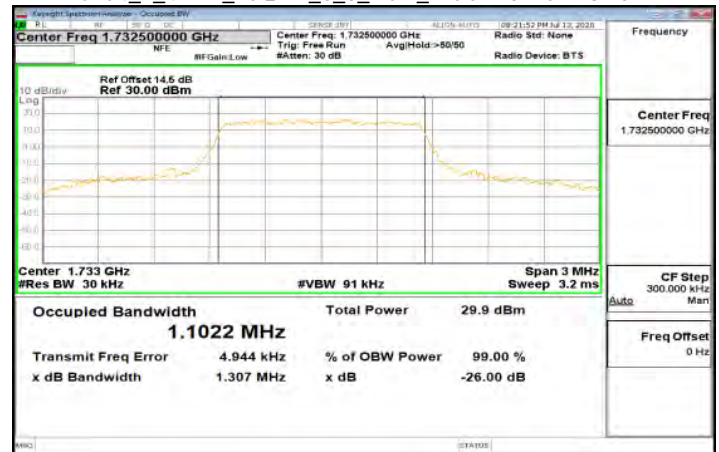
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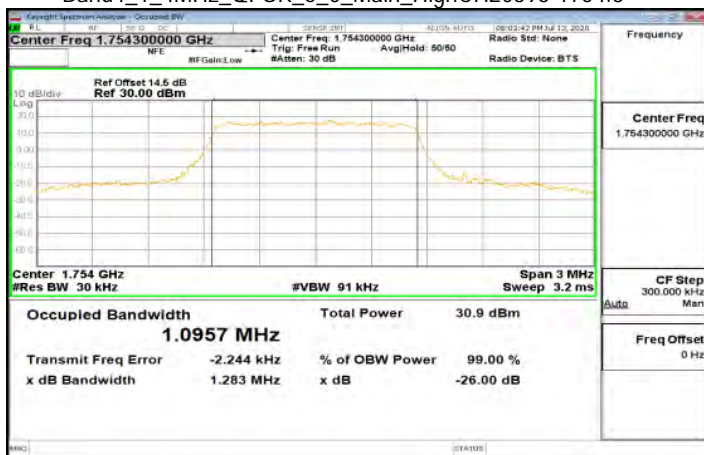
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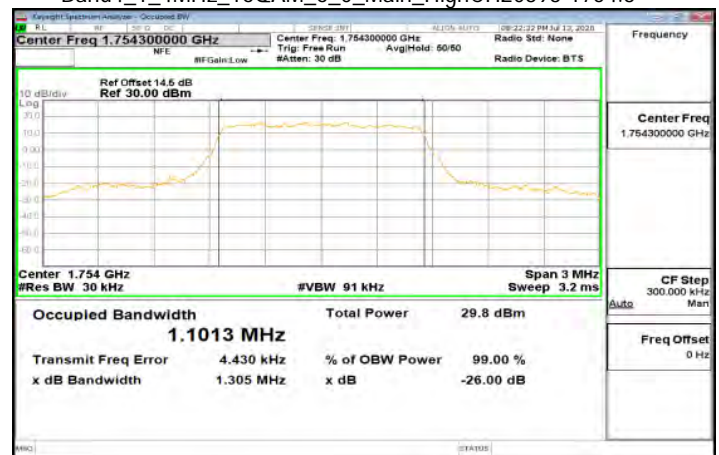
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Band4_1_4MHz_16QAM_6_0_Main_HighCH20393-1754.3

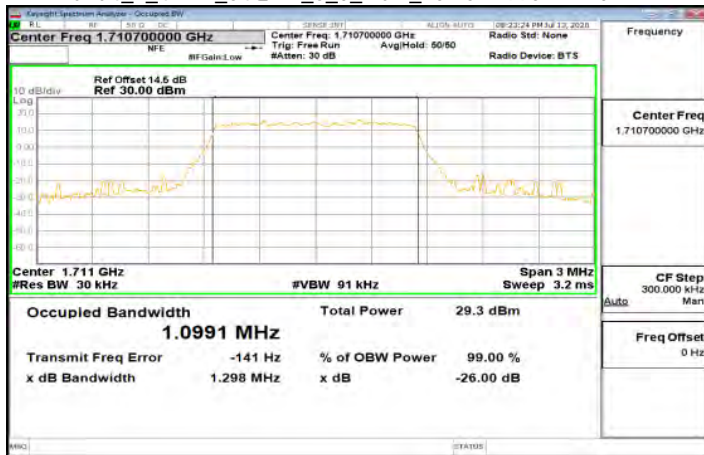


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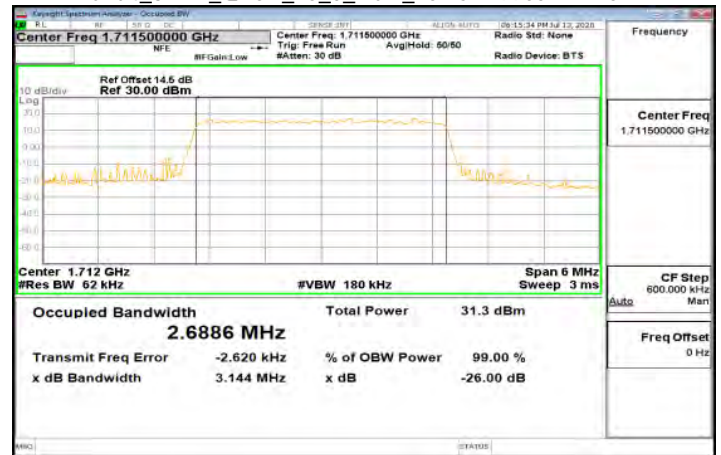
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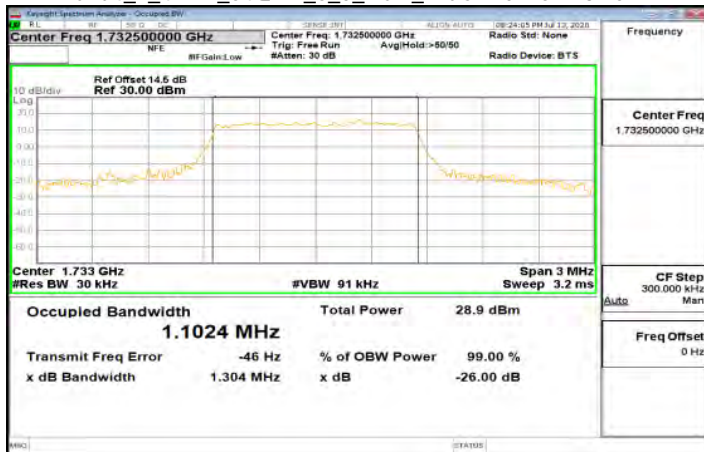
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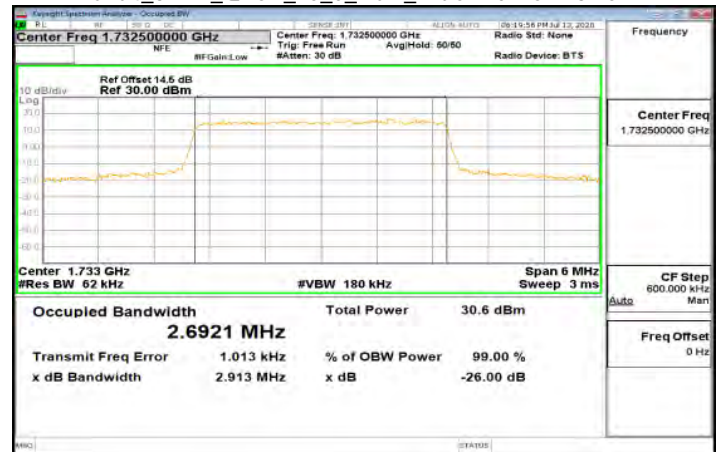
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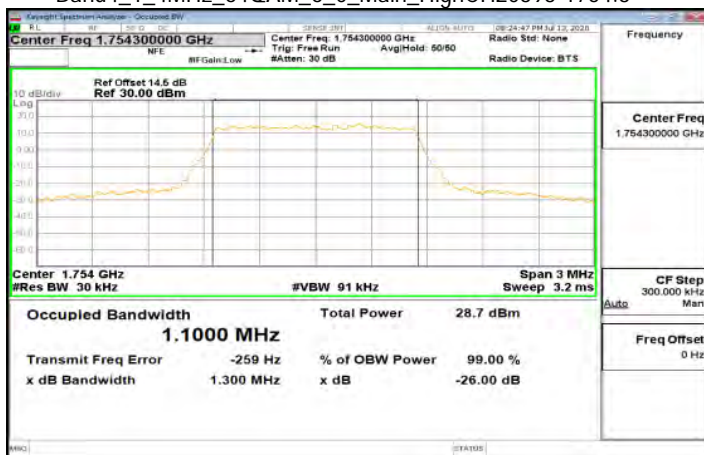
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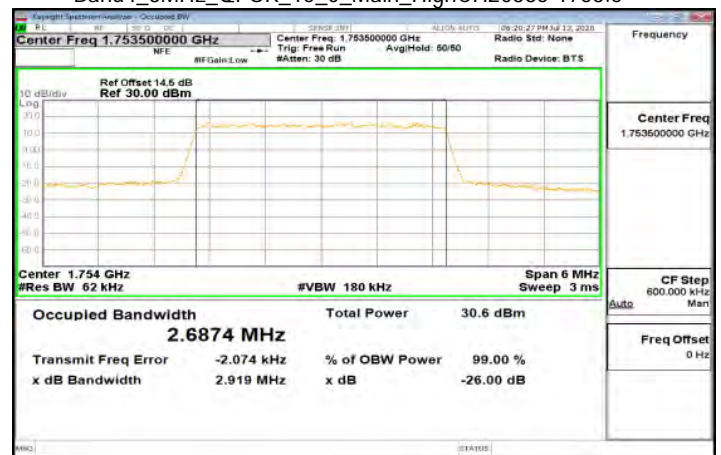
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Band4_1_4MHz_64QAM_6_0_Main_HighCH20393-1754.3



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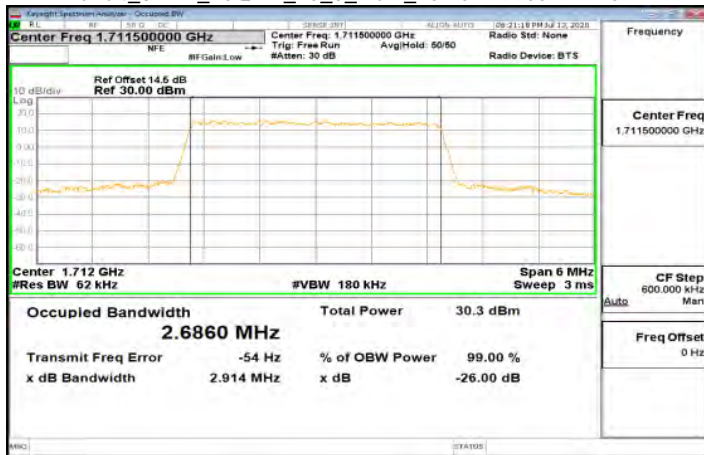


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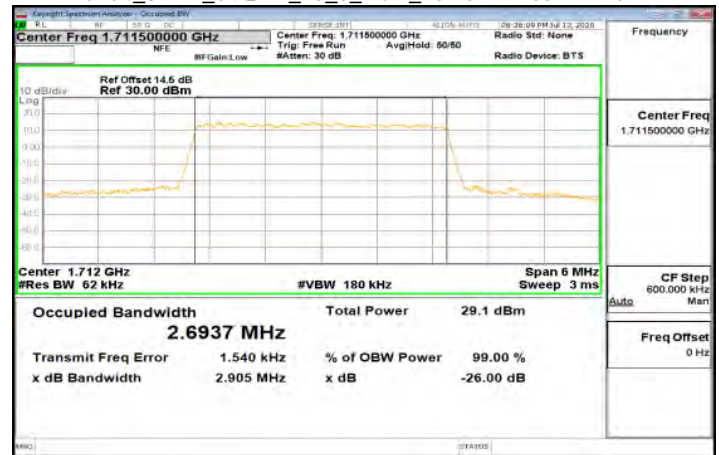
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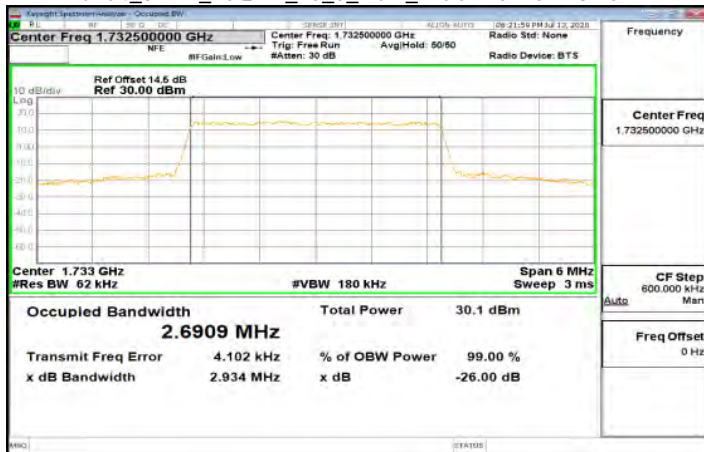
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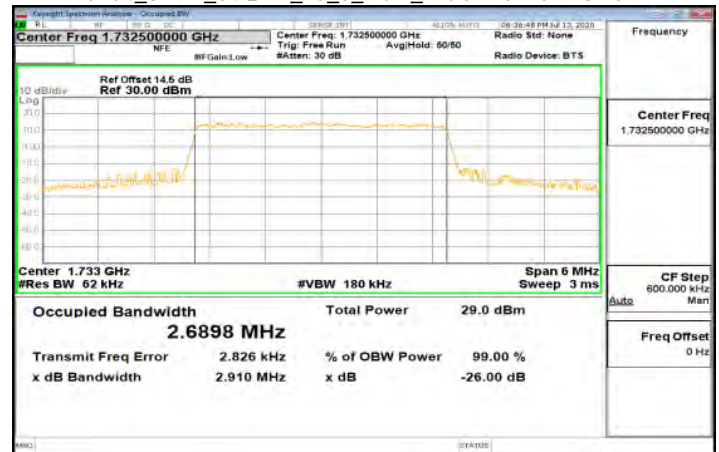
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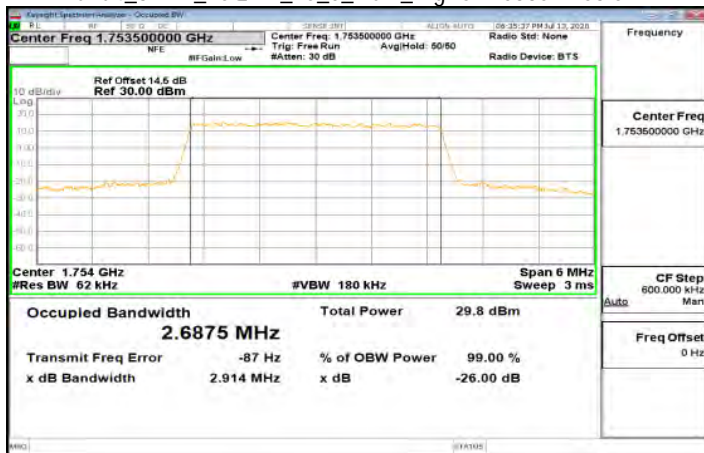
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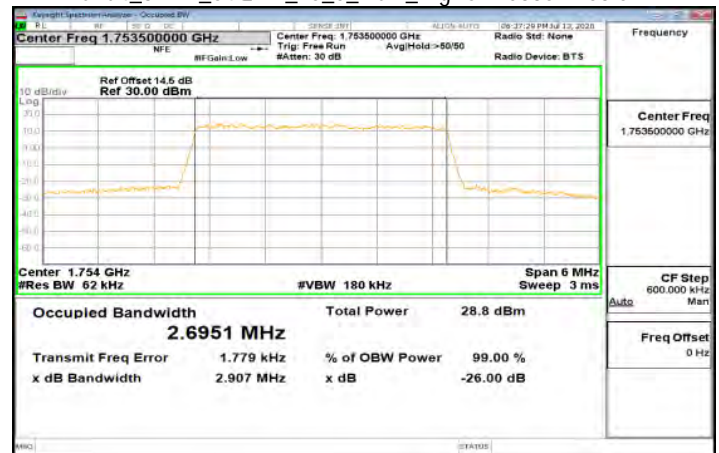
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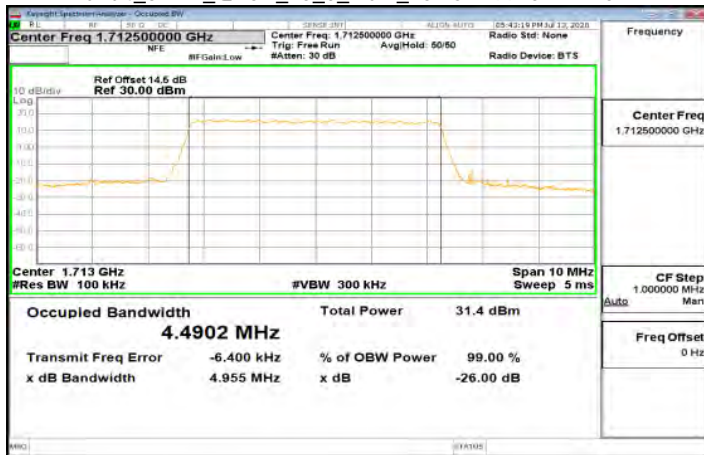


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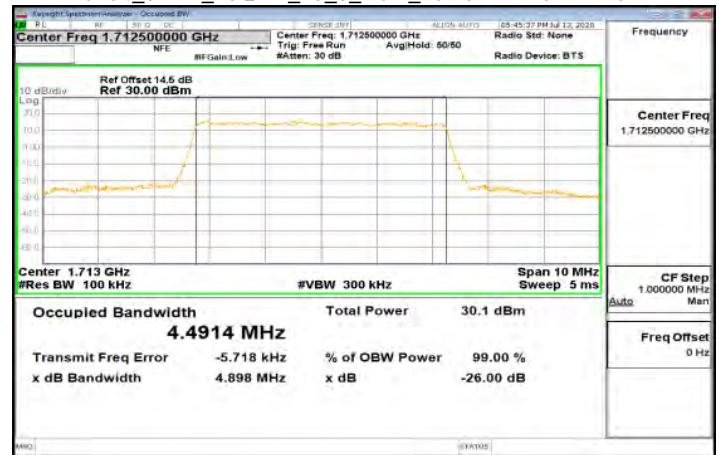
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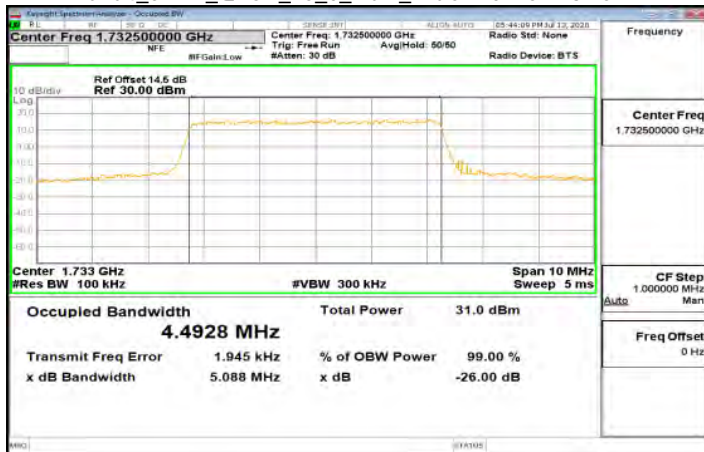
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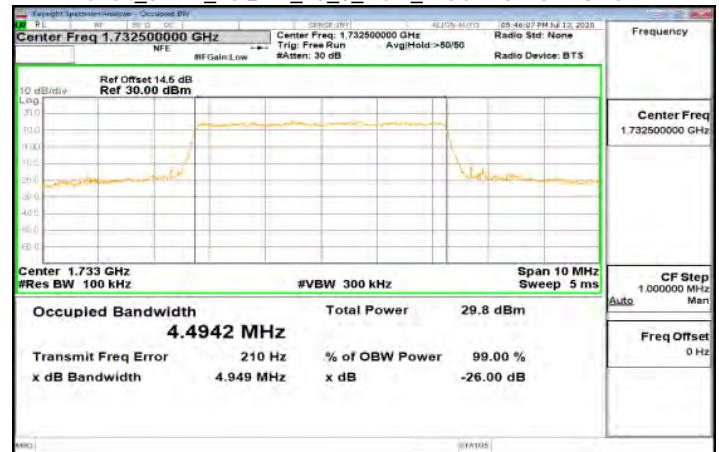
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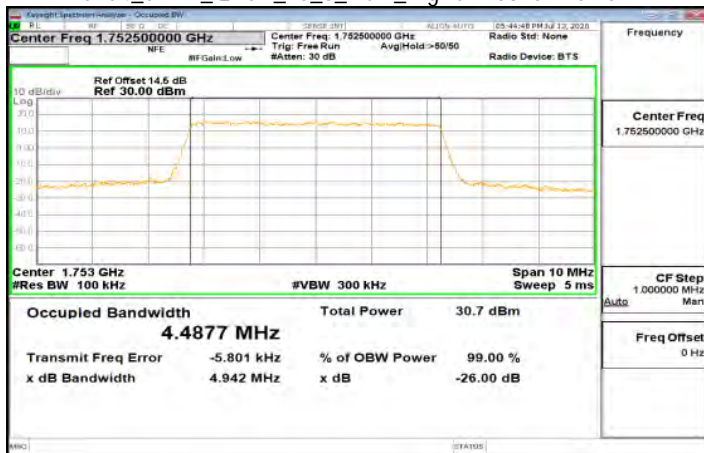
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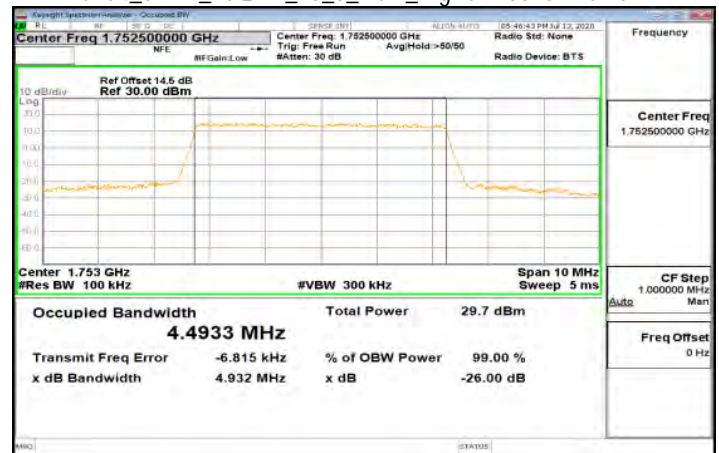
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Band4_5MHz_QPSK_25_0_Main_HighCH20375-1752.5



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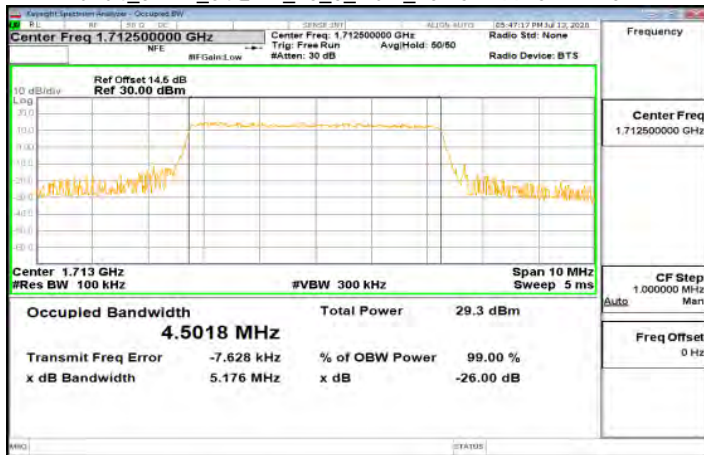


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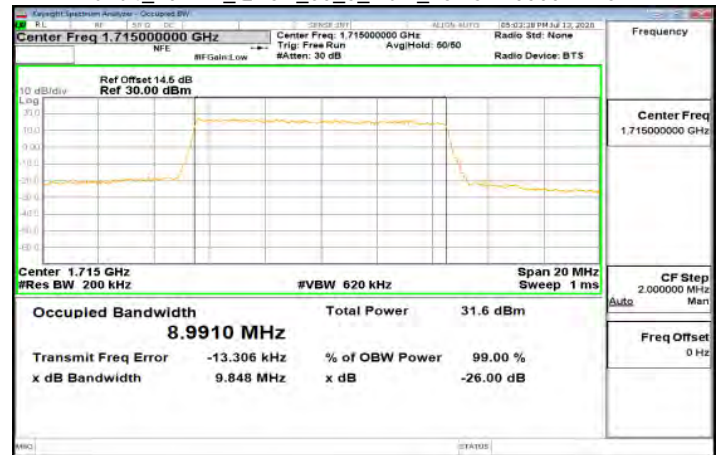
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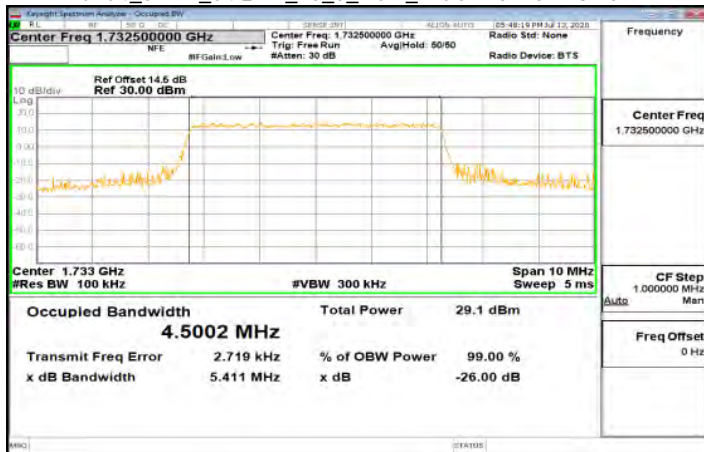
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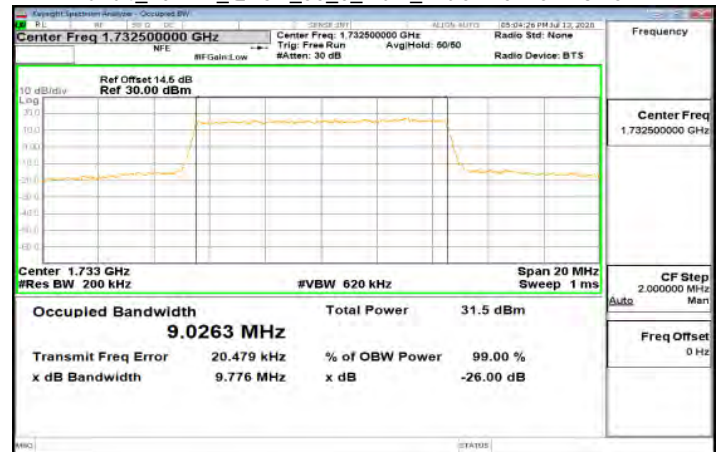
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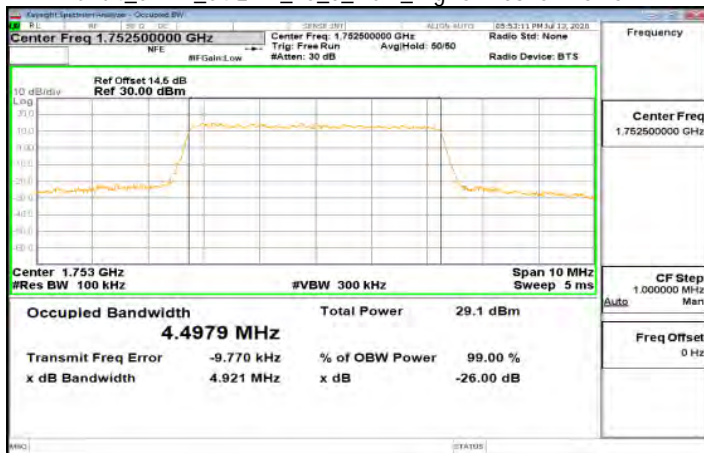
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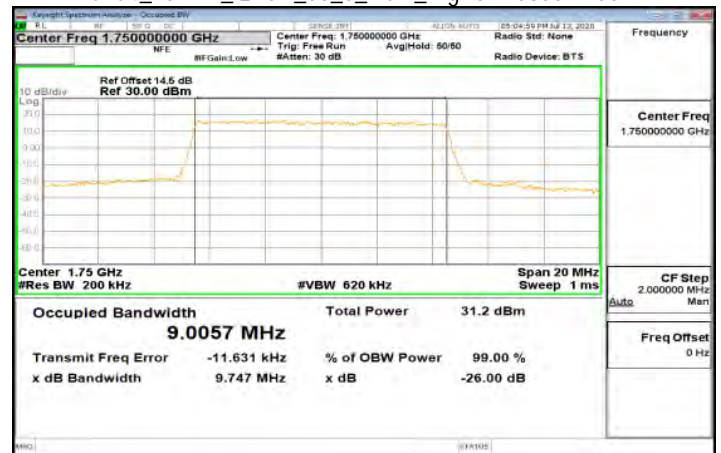
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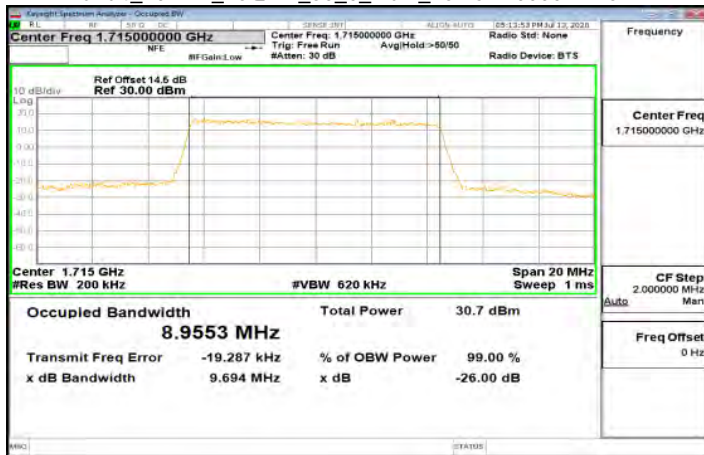


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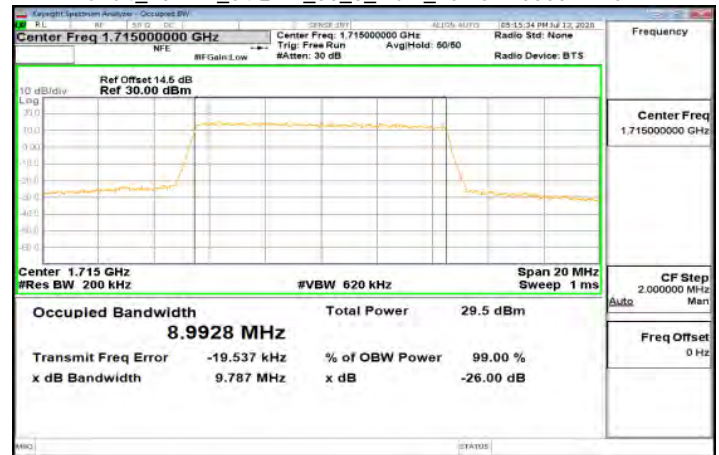
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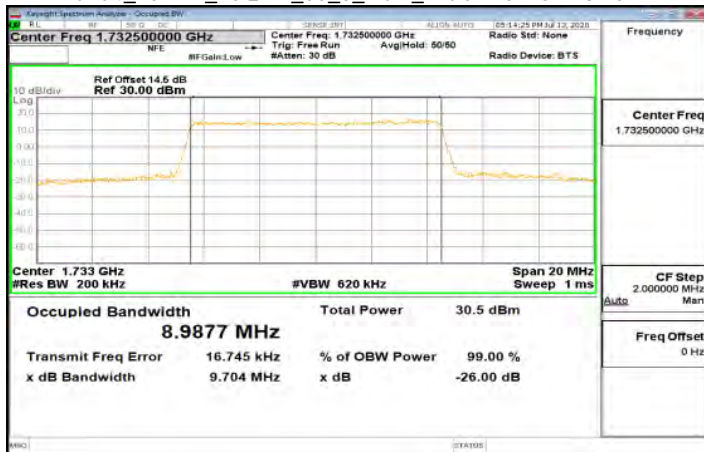
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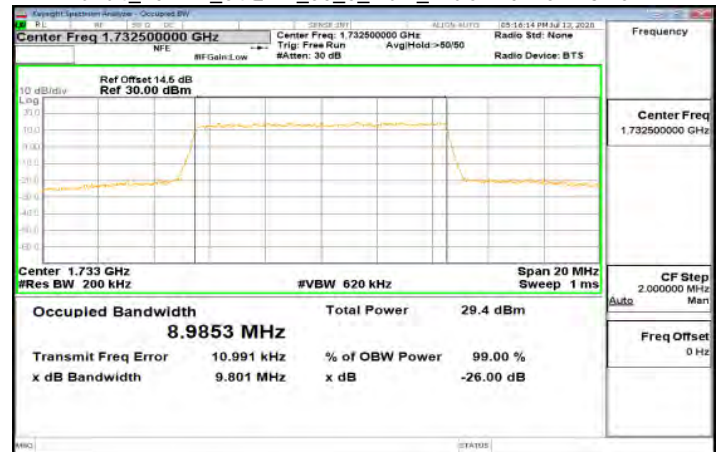
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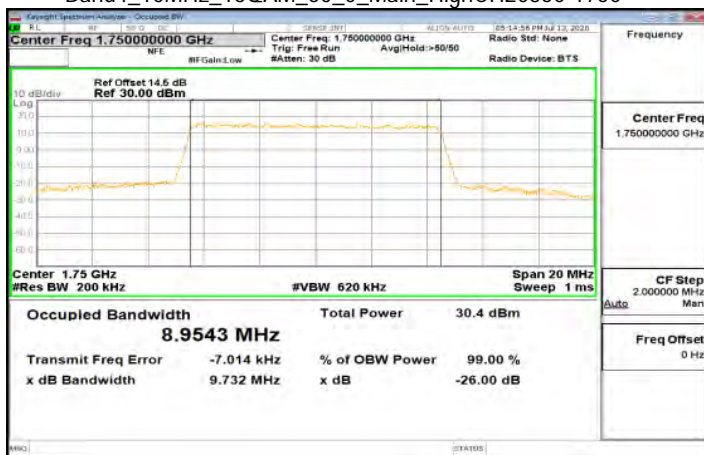
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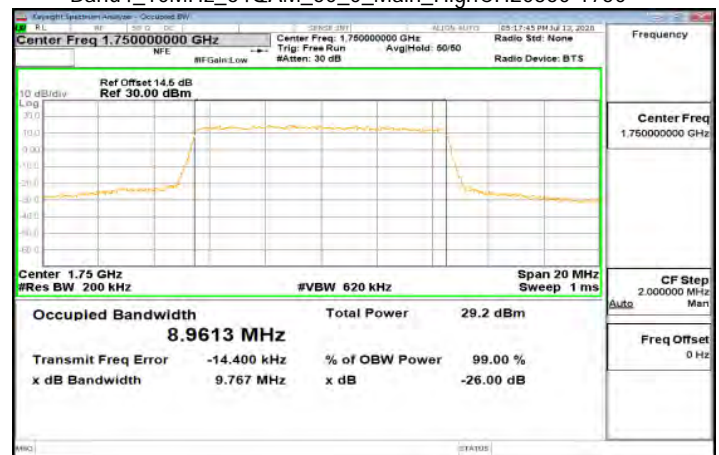
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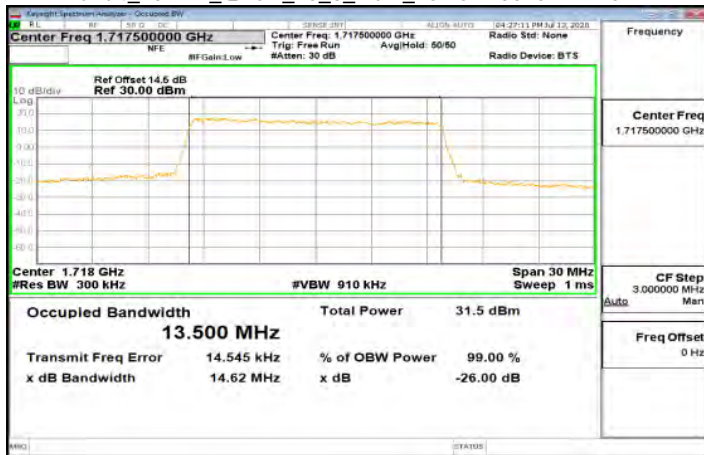


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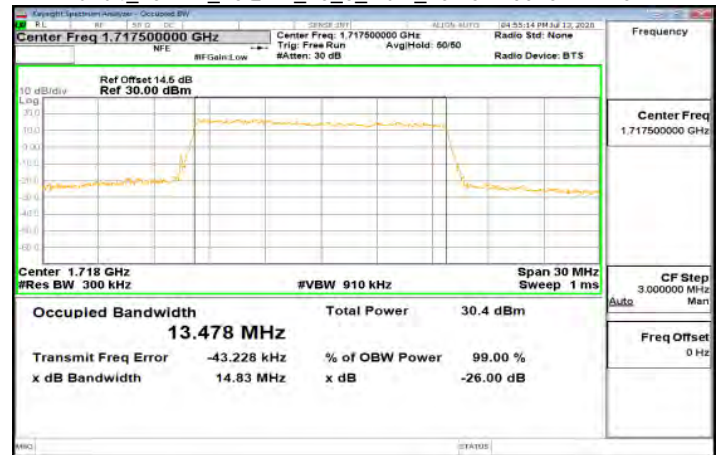
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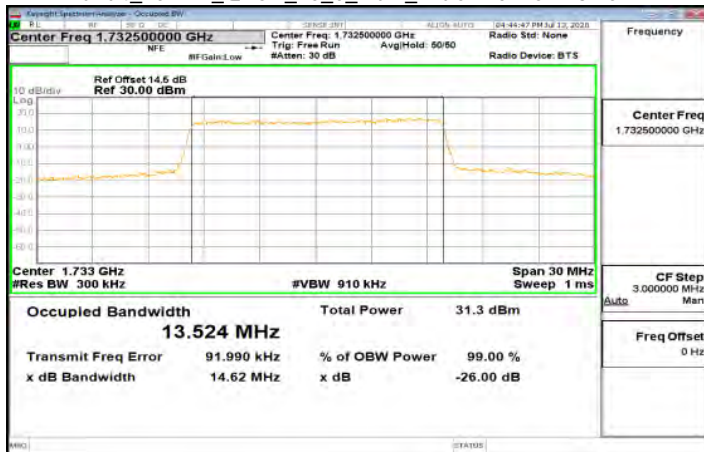
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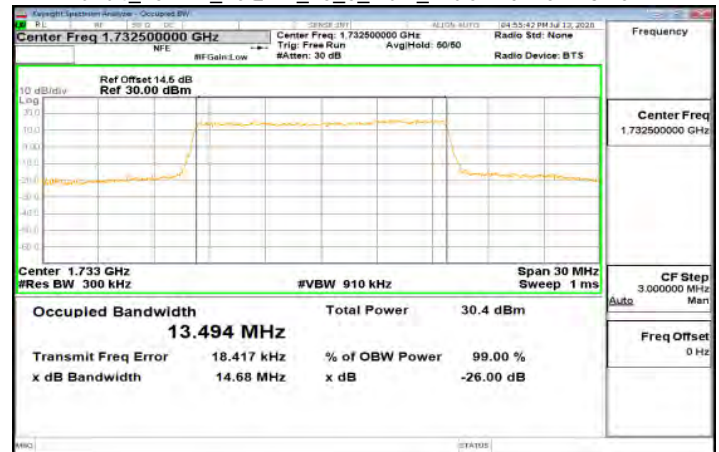
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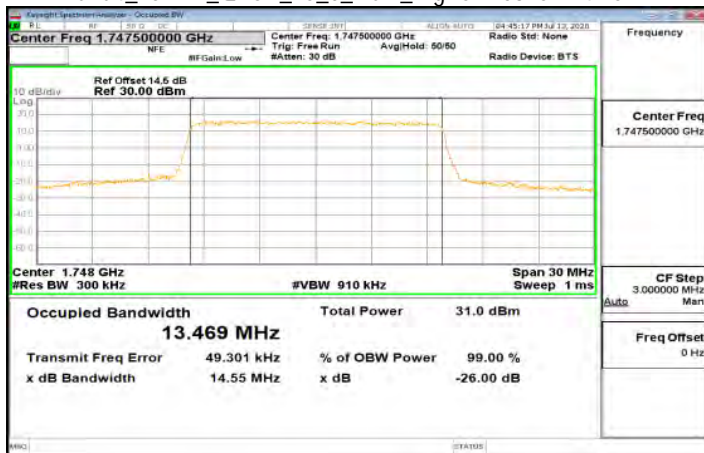
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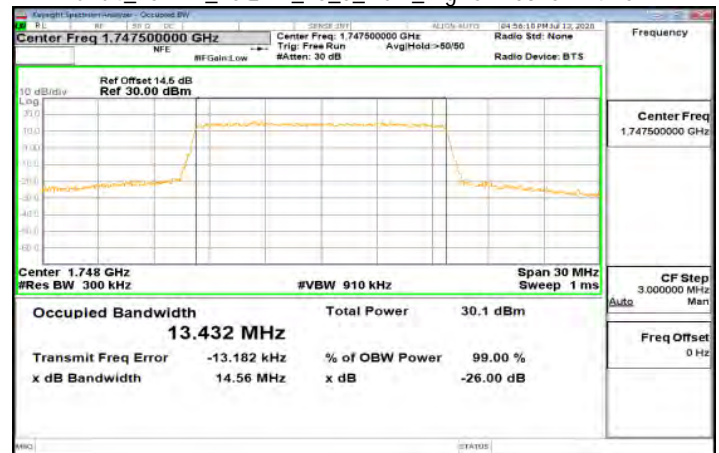
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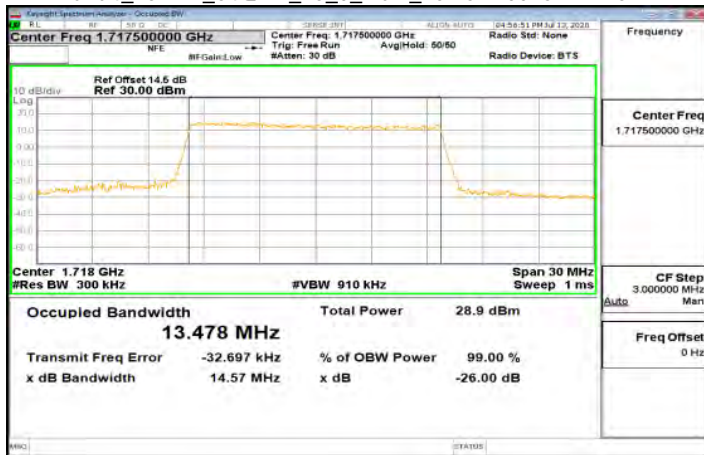


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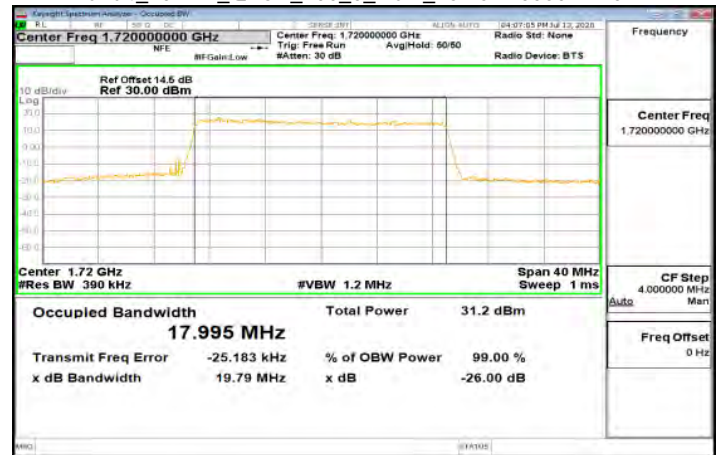
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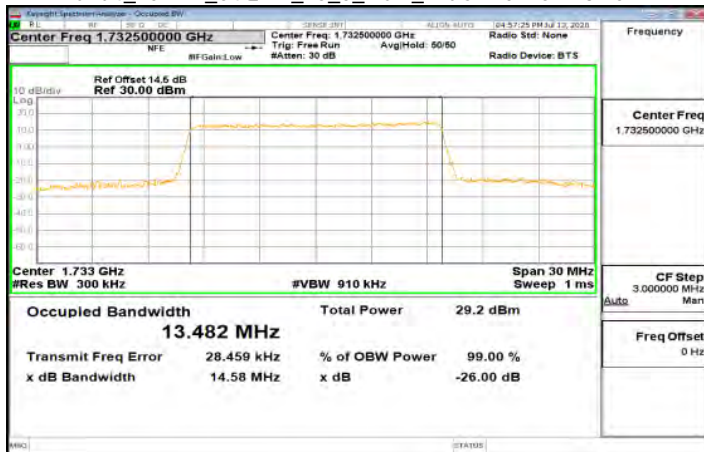
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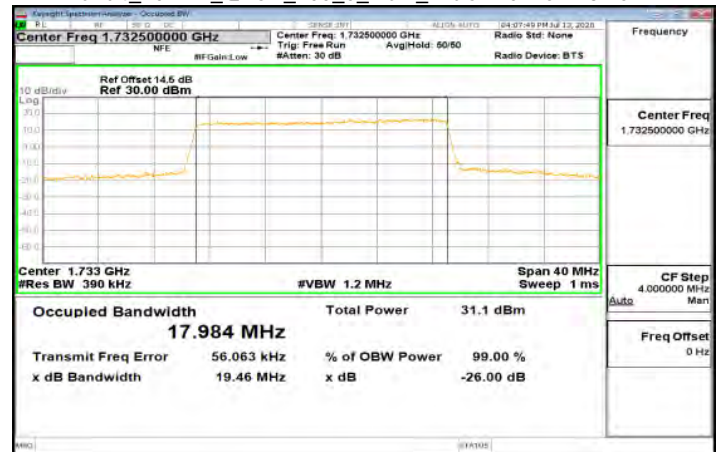
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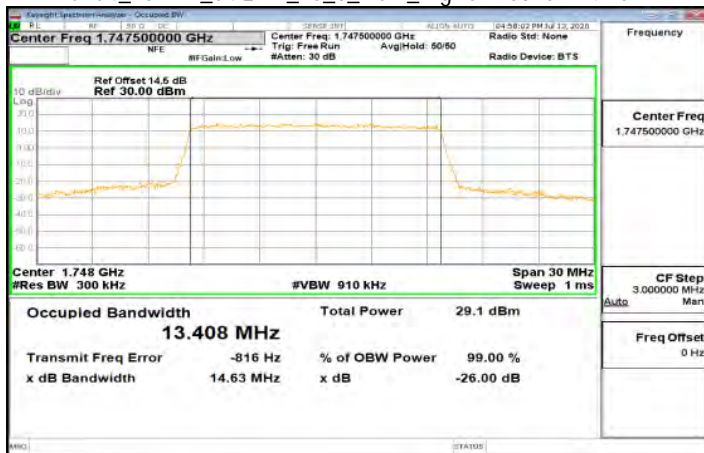
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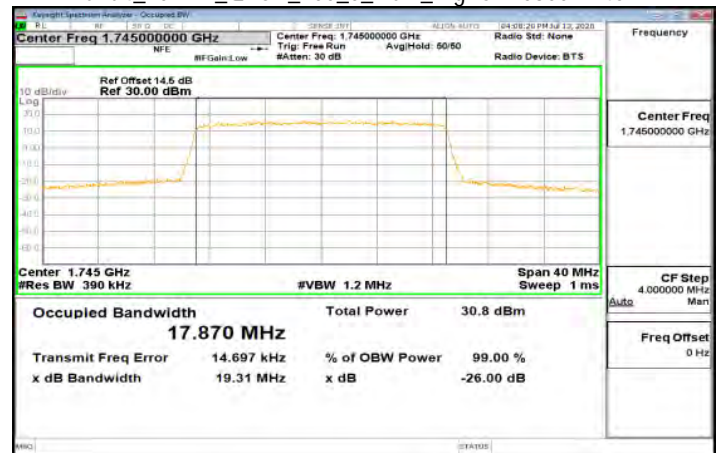
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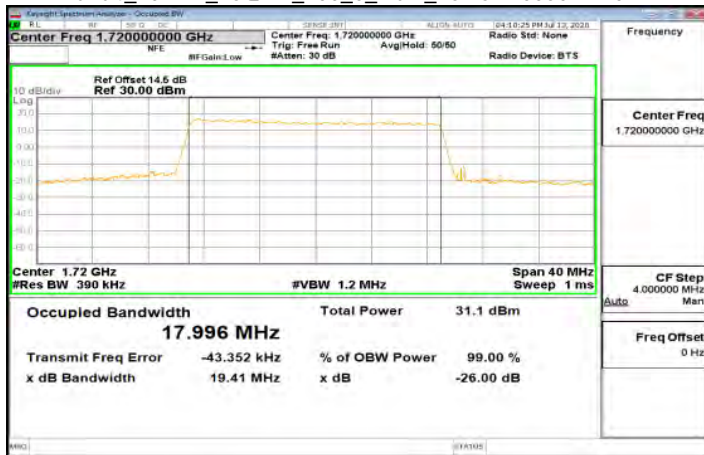


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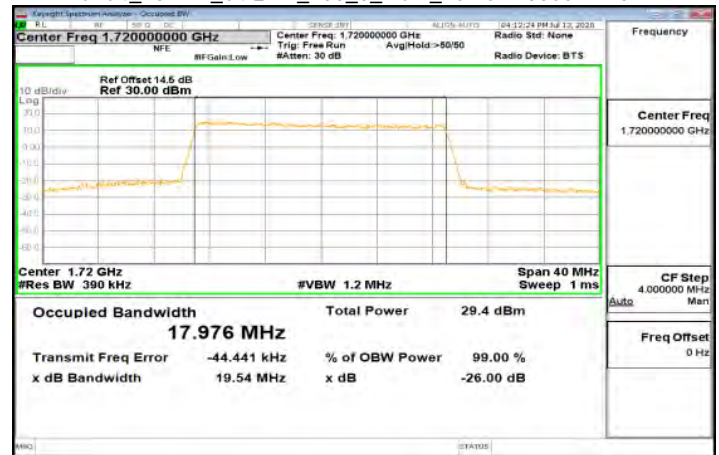
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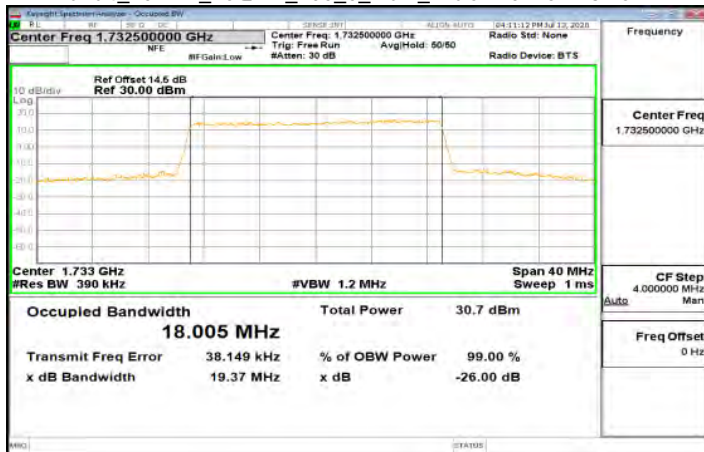
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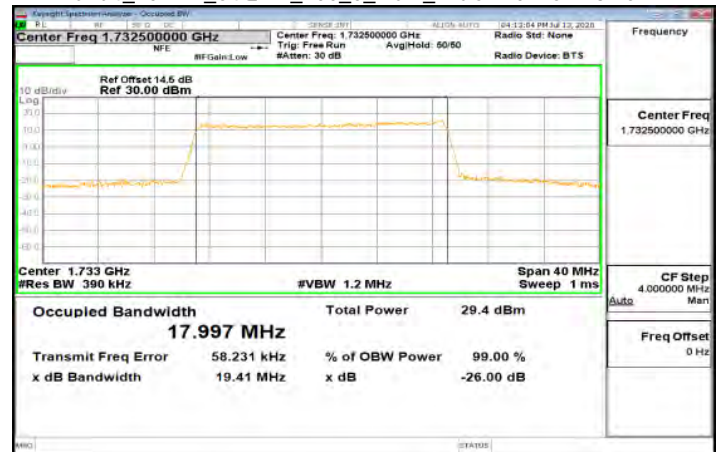
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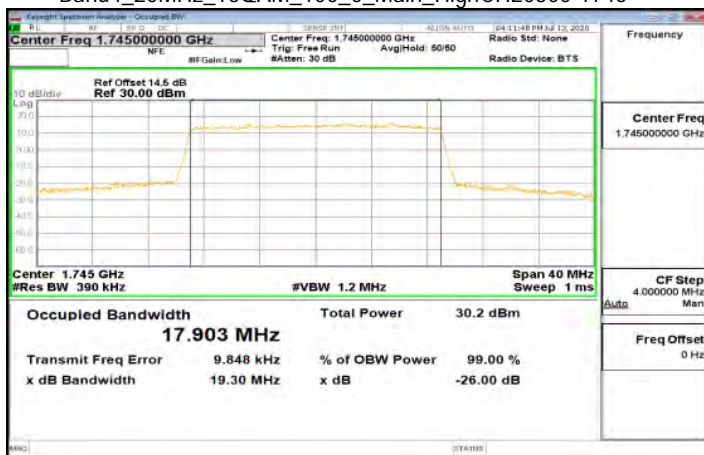
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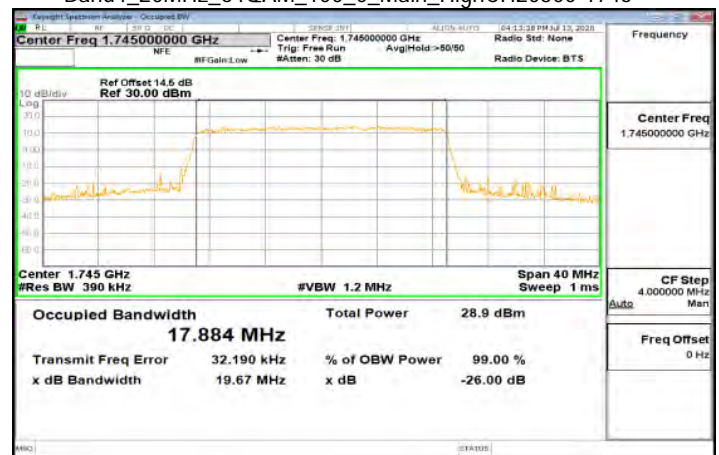
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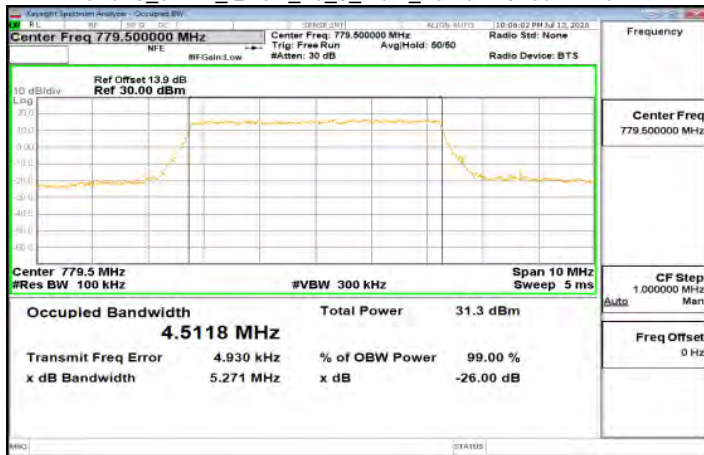


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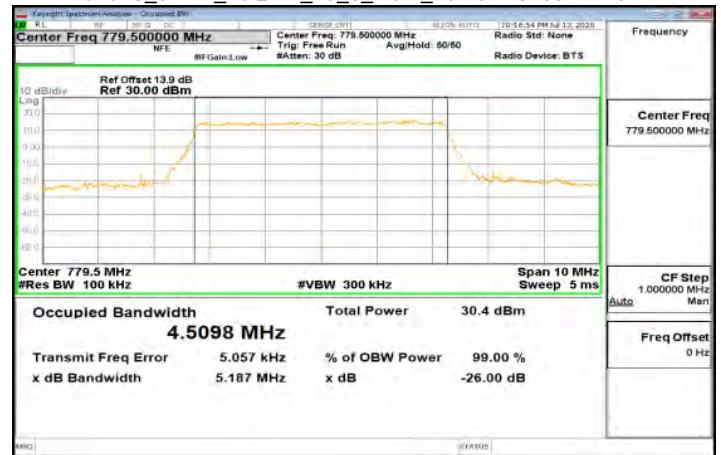
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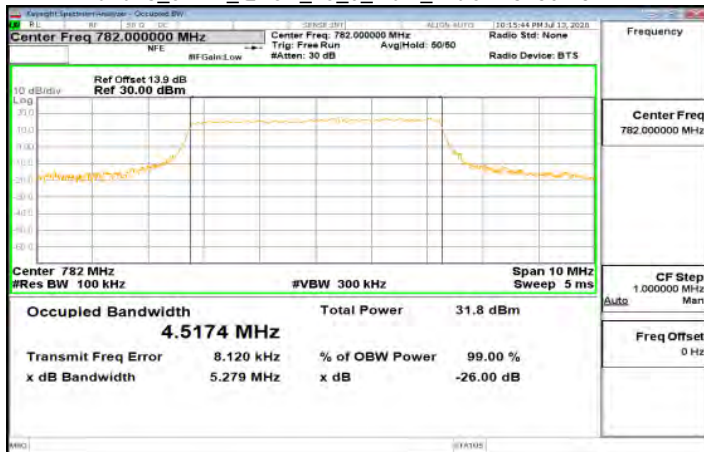
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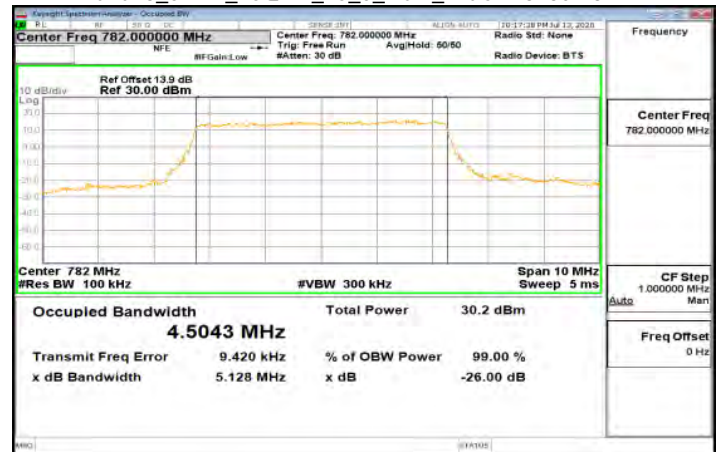
Band13_5MHz_16QAM_25_0_Main_LowCH23205-779.5



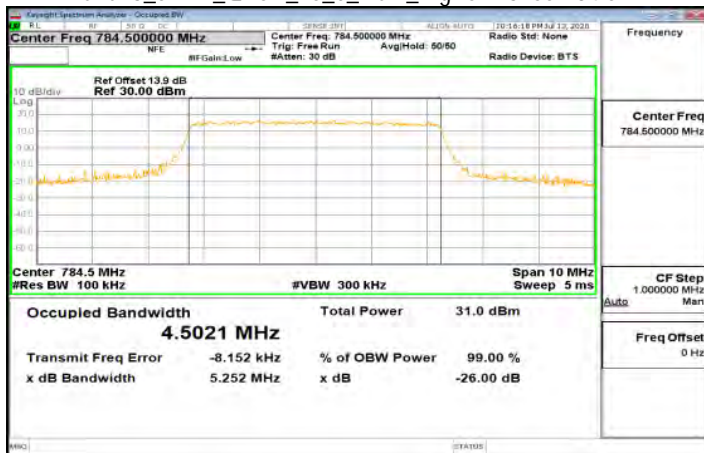
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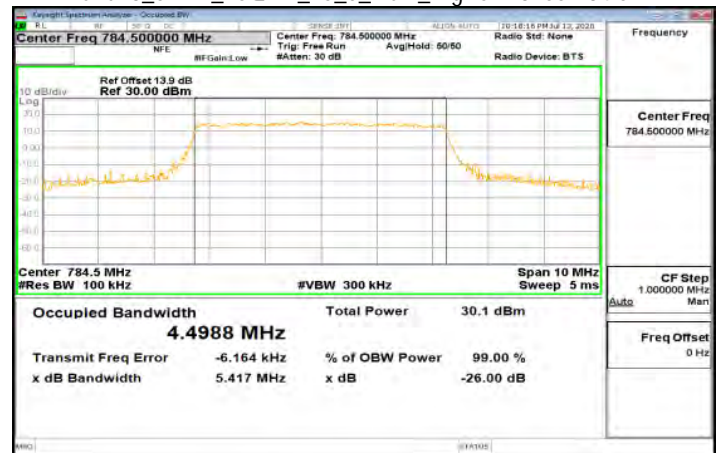
Band13_5MHz_16QAM_25_0_Main_MidCH23230-782



Band13_5MHz_QPSK_25_0_Main_HighCH23255-784.5



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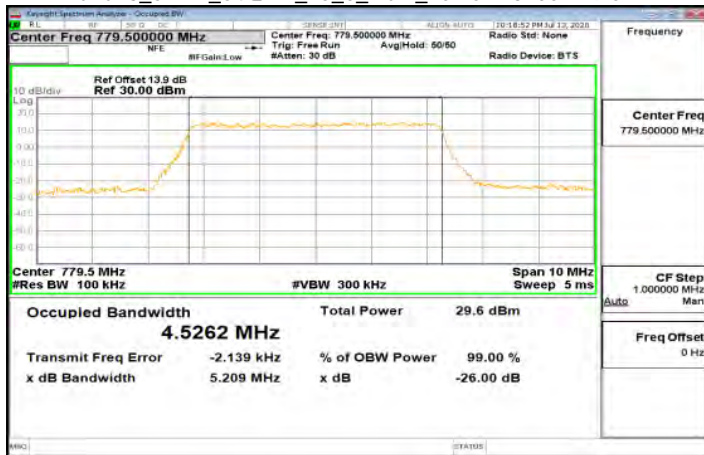


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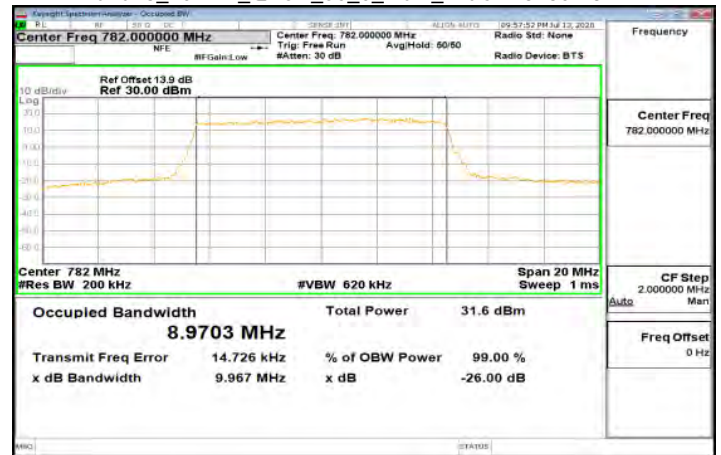
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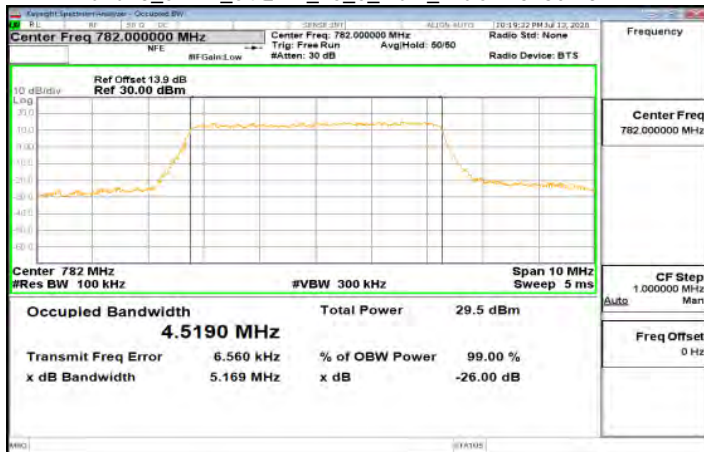
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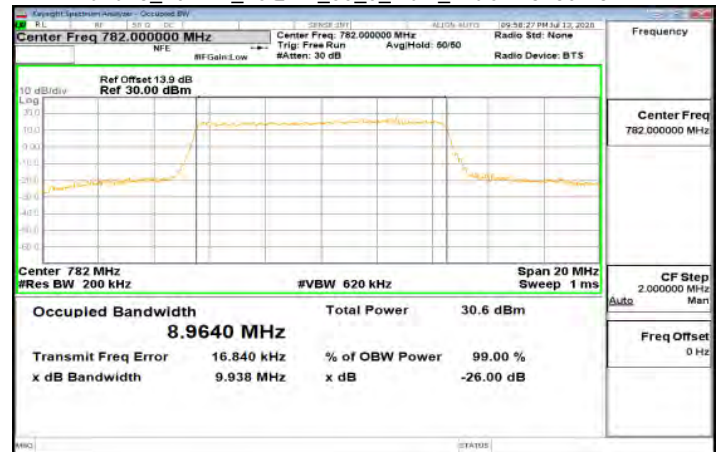
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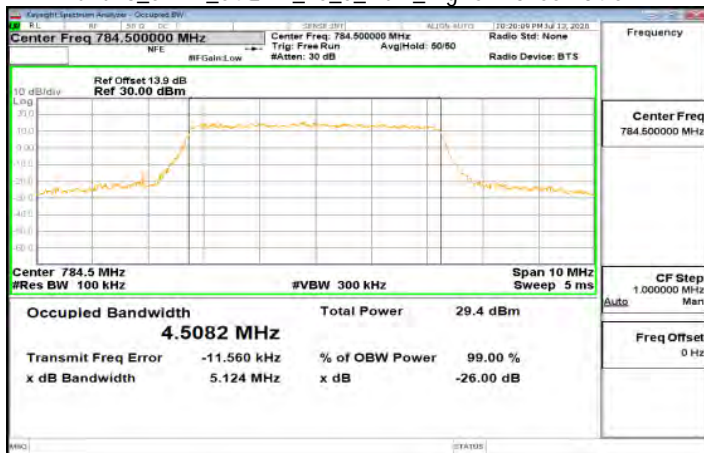
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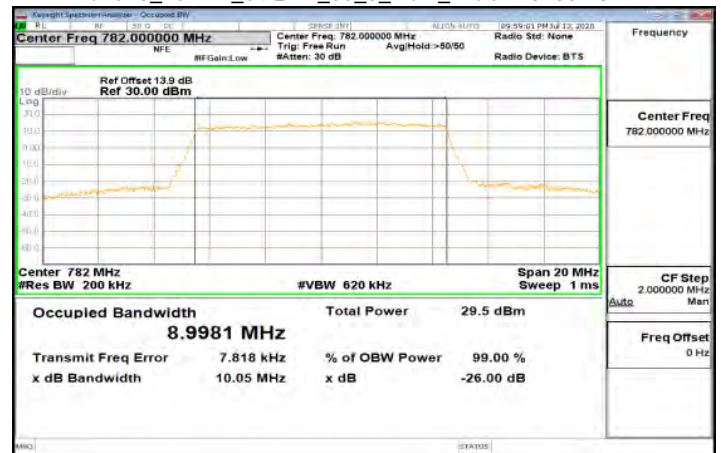
Band13_10MHz_16QAM_50_0_Main_MidCH23230-782



Band13_5MHz_64QAM_25_0_Main_HighCH23255-784.5



Band13_10MHz_64QAM_50_0_Main_MidCH23230-782

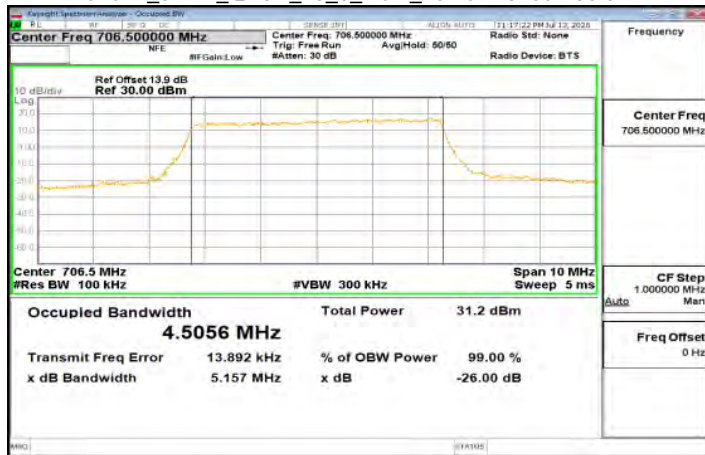


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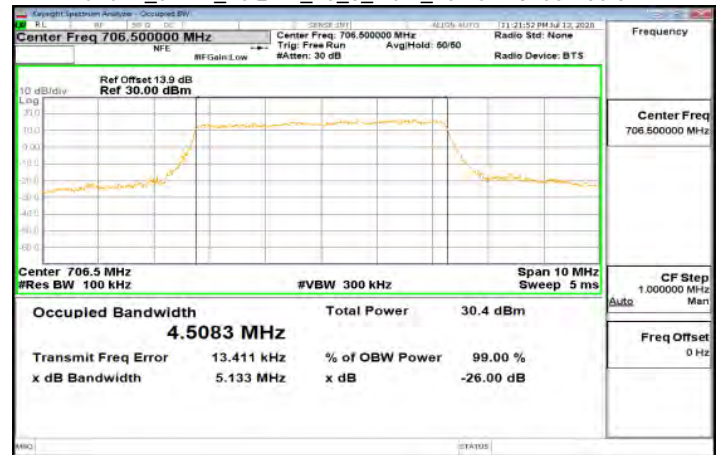
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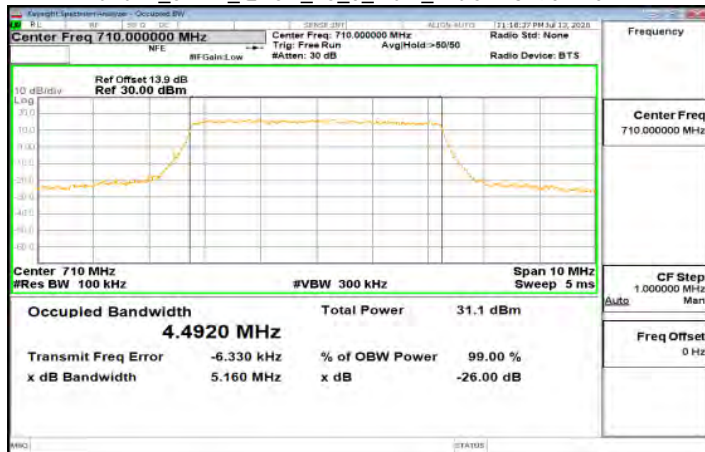
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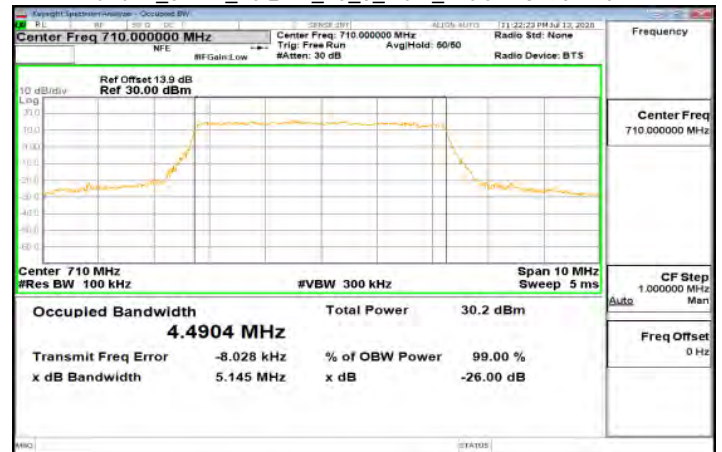
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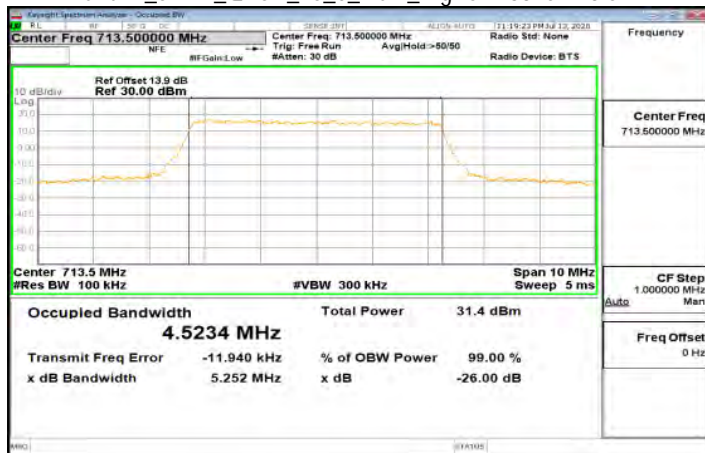
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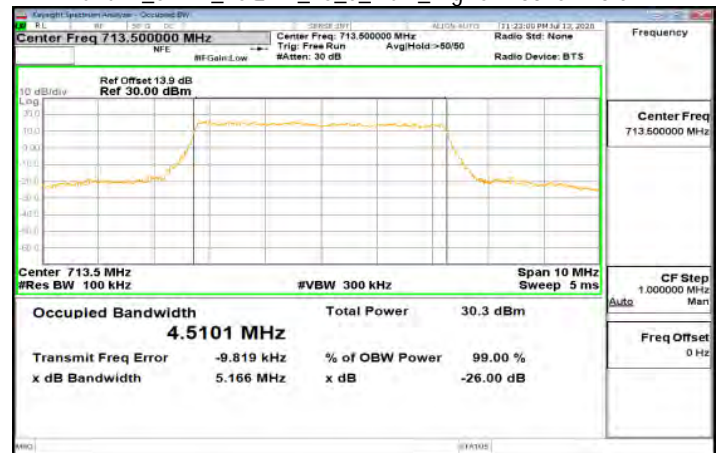
Band17_5MHz_16QAM_25_0_Main_MidCH23790-710



Band17_5MHz_QPSK_25_0_Main_HighCH23825-713.5



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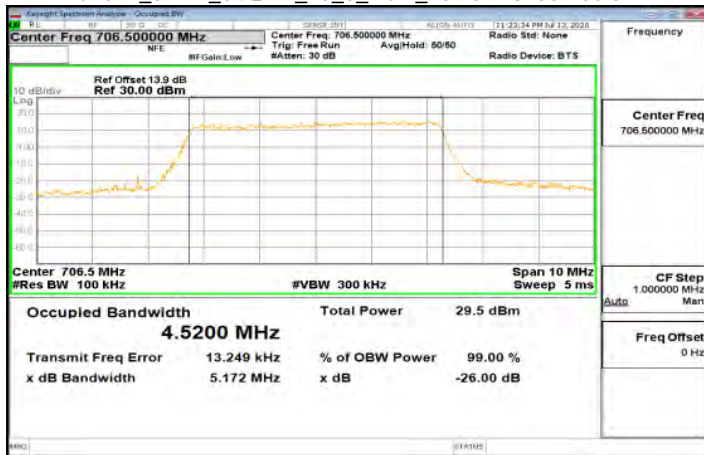


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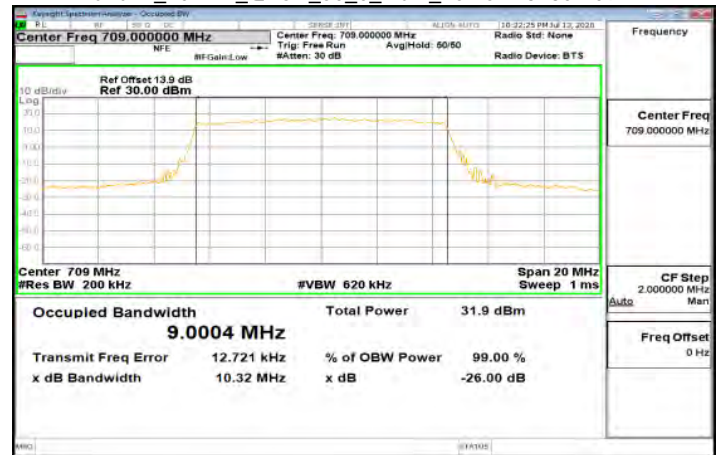
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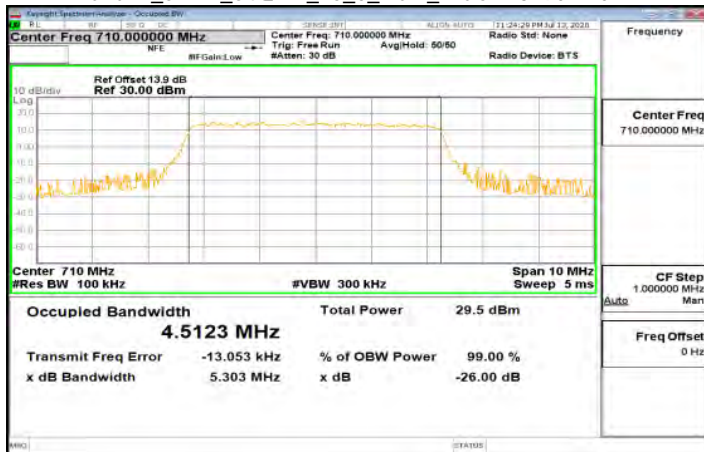
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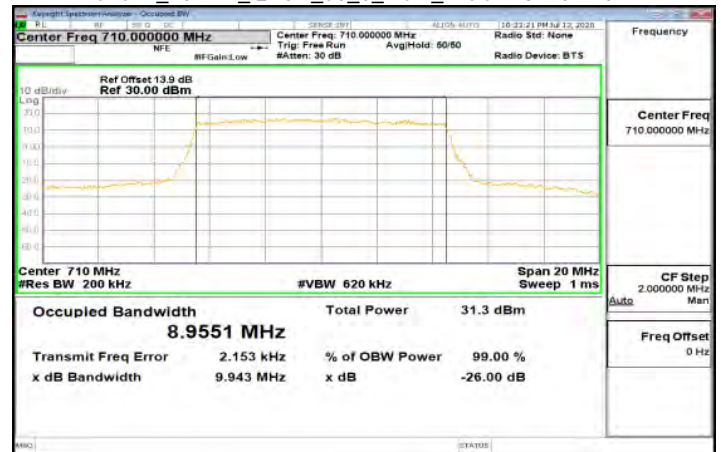
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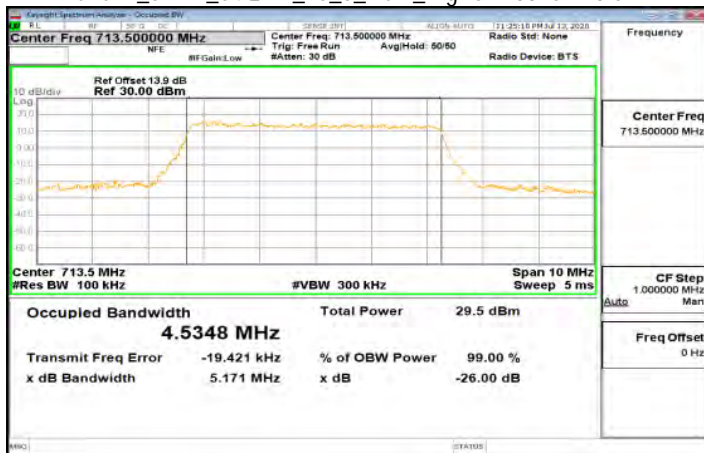
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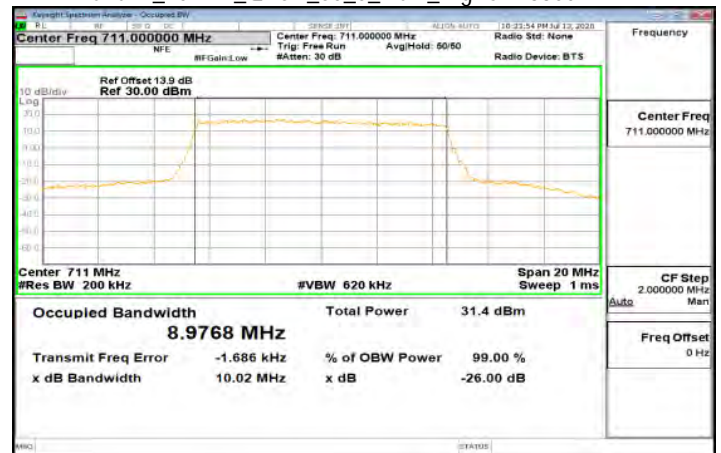
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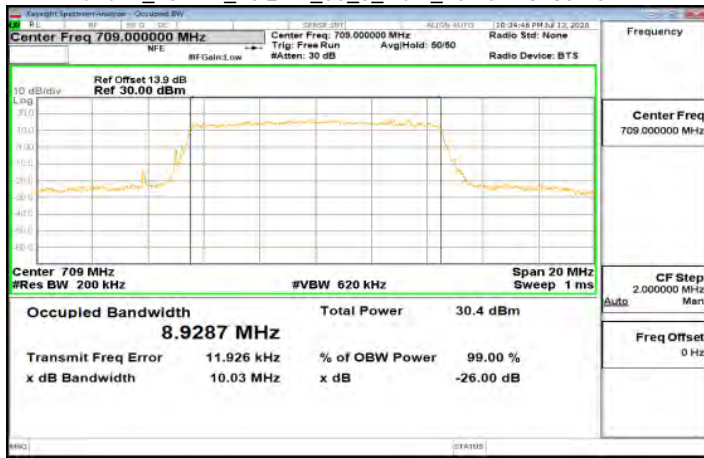


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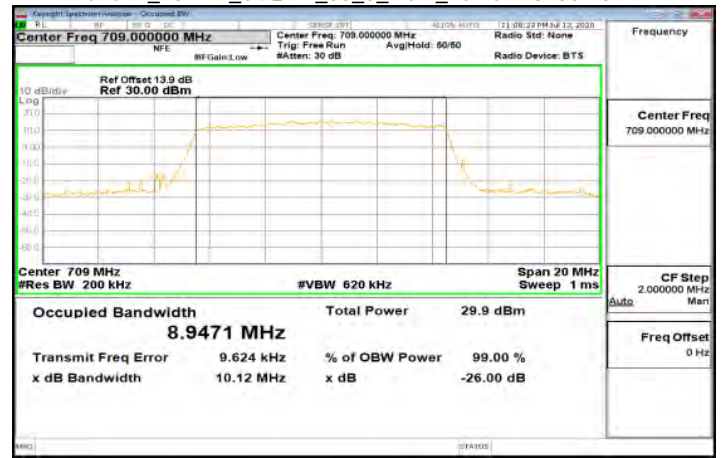
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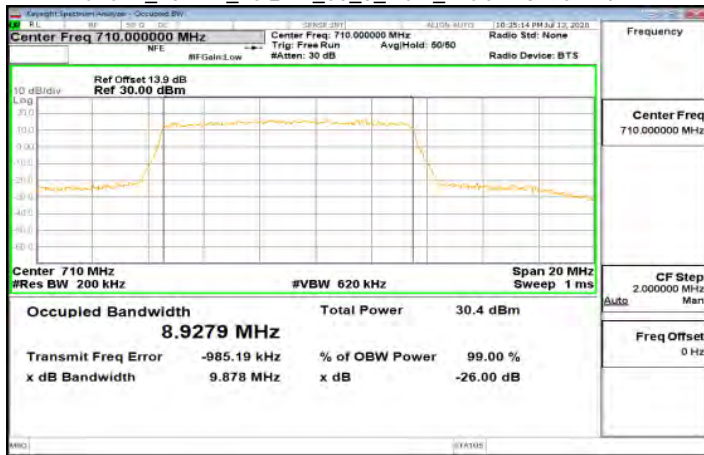
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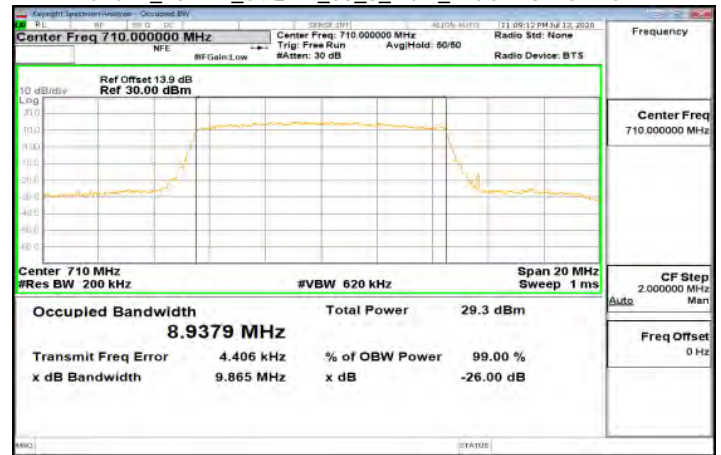
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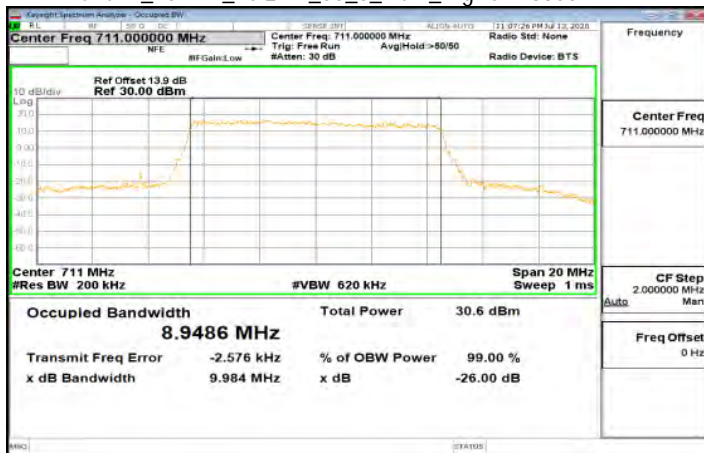
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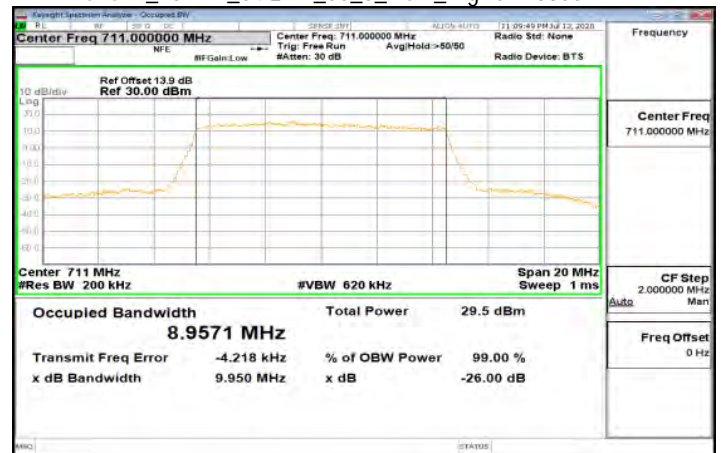
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Band17_10MHz_16QAM_50_0_Main_HighCH23800-711



Band17_10MHz_64QAM_50_0_Main_HighCH23800-711



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8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

8.1 Standard Applicable

FCC §24.238(a), §27.53(h), §22.917(a)

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

FCC §27.53(c) for LTE B13

For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(h)(3) for LTE B4

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

FCC §27.53(g) LTE B17

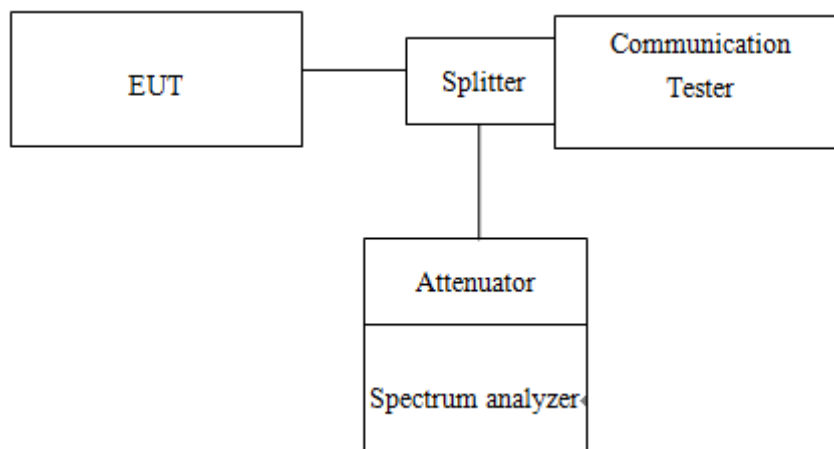
Compliance for operations in the 600 MHz, 698-746 MHz, 746-758 MHz and the 776-788 MHz band with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's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

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log(P)$ dB;

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations;

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations

8.2 Test SET-UP



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8.3 Measurement Procedure

8.3.1 Conducted Emission

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

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

8.3.2 Band Edge

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

8.4 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	04/01/2020	03/31/2021
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
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
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

8.5 Measurement Result:

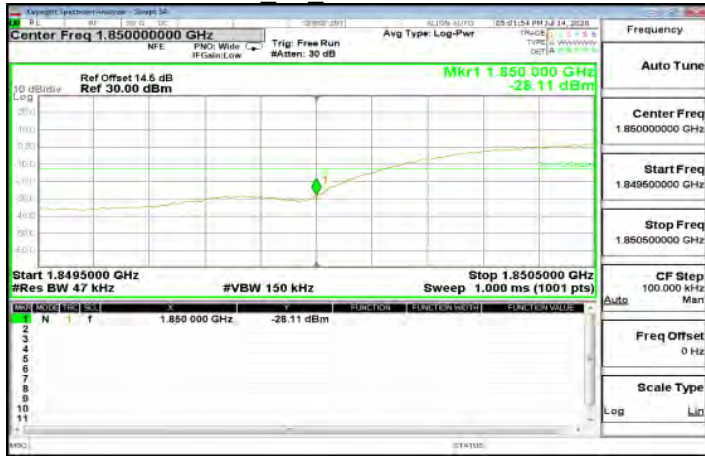
Refer to next pages.

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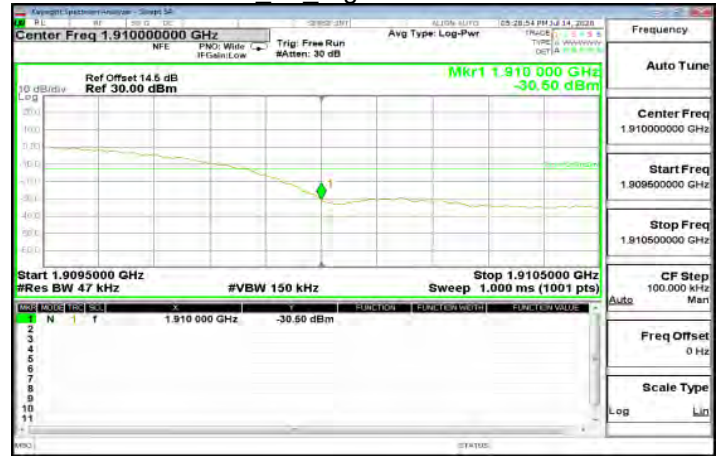
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Bandedge

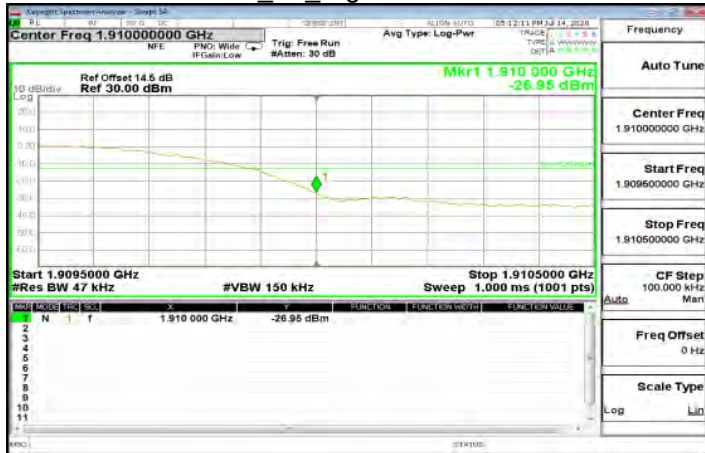
WCDMA B2 LowCH9262-1852.4



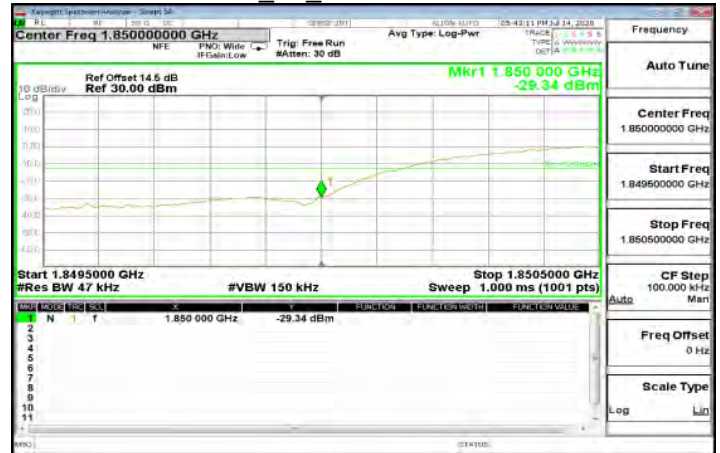
HSDPA B2 HighCH9538-1907.6



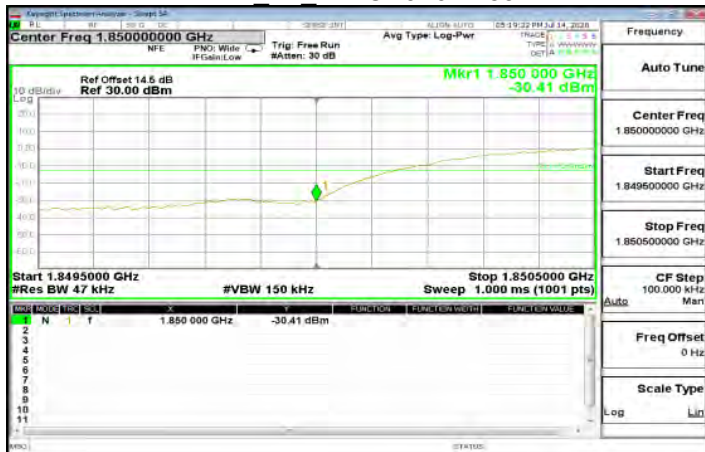
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HSUPA B2 LowCH9262-1852.4



HSDPA B2 LowCH9262-1852.4



HSUPA B2 HighCH9538-1907.6

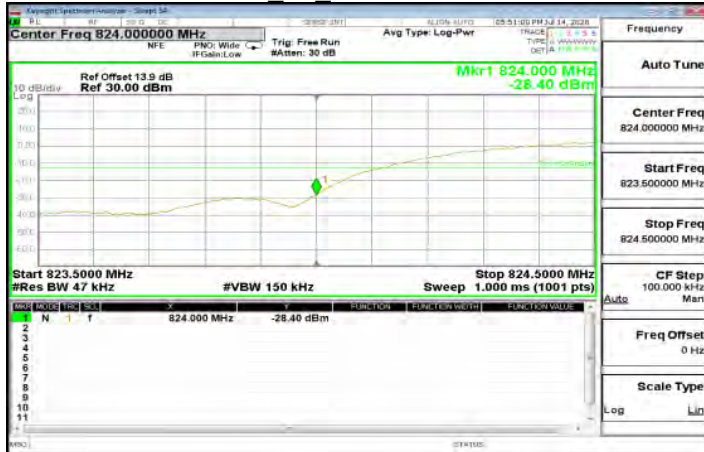


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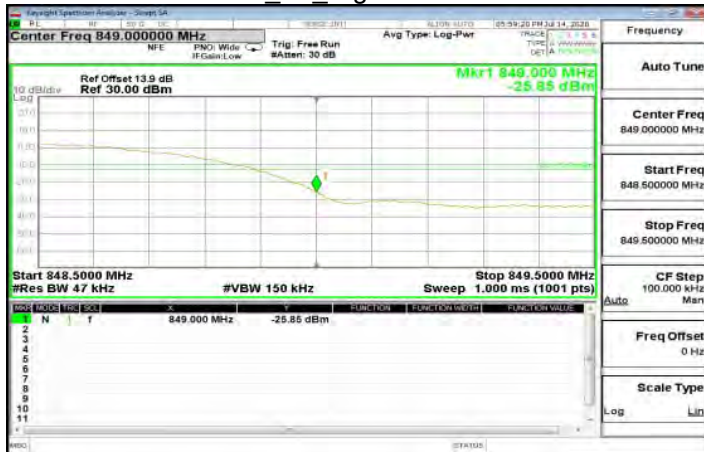
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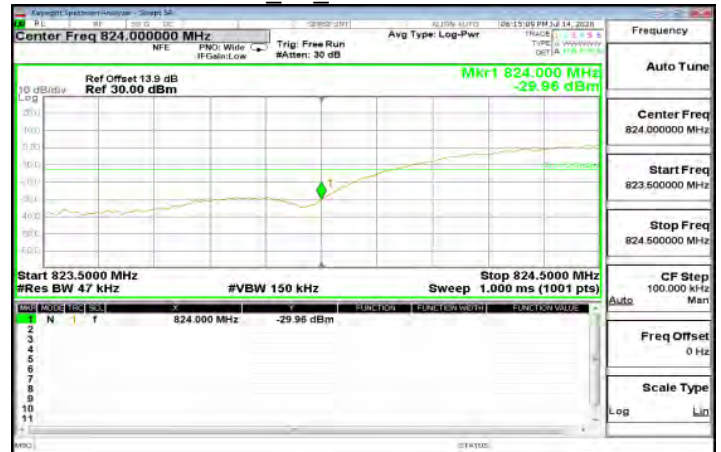
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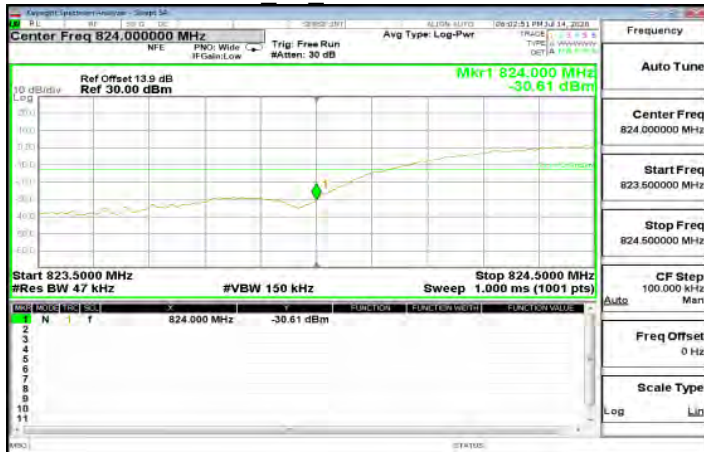
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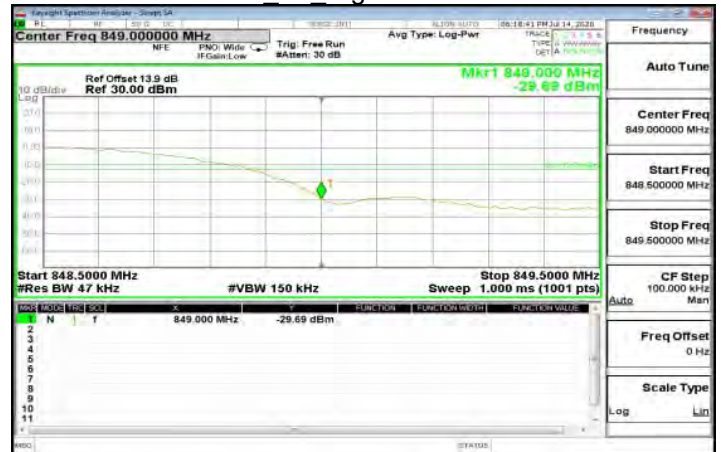
HSUPA B5 LowCH4132-826.4



HSDPA B5 LowCH4132-826.4



HSUPA B5 HighCH4233-846.6

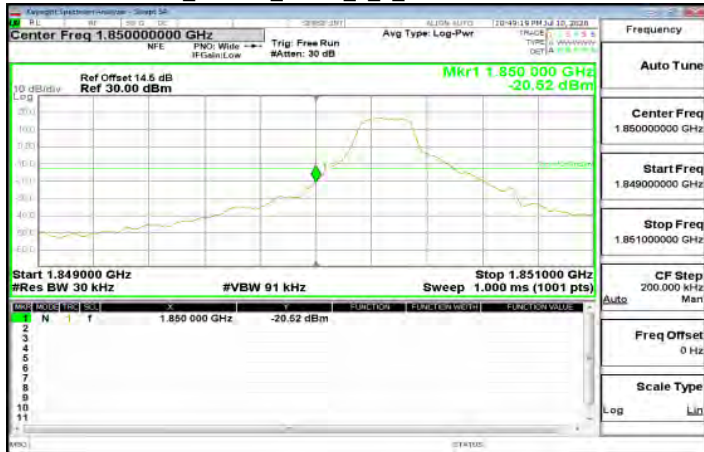


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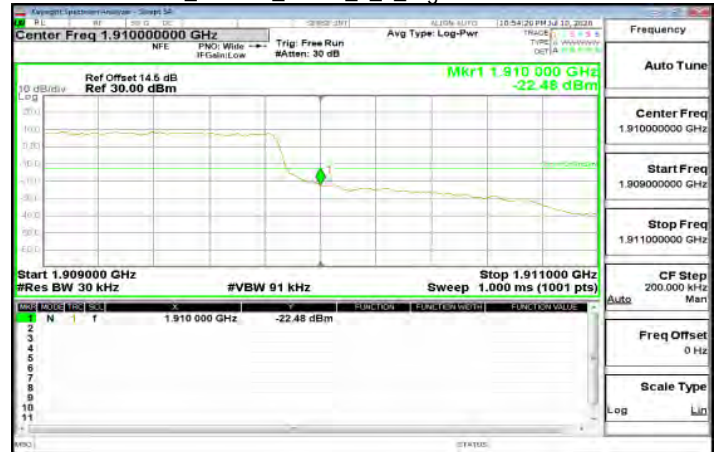
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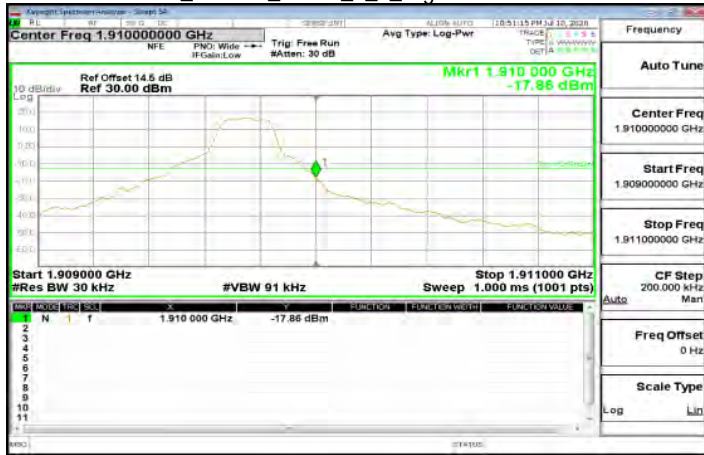
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LTE\Band2_1.4MHz_QPSK_6_0_HighCH19193-1909.3



LTE\Band2_1.4MHz_QPSK_1_5_HighCH19193-1909.3



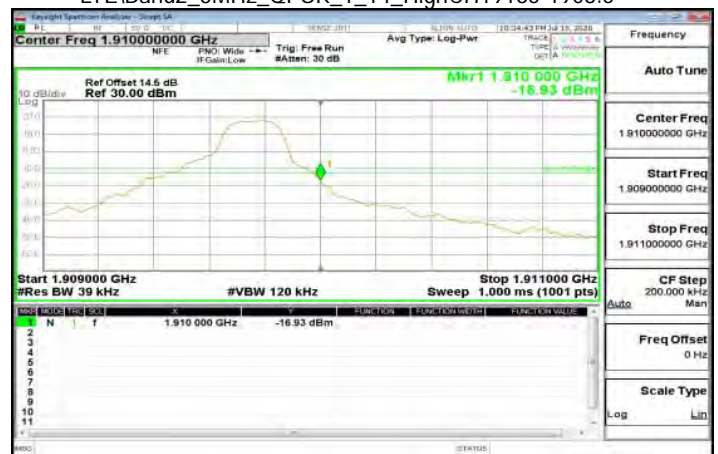
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LTE\Band2_1.4MHz_QPSK_6_0_LowCH18607-1850.7



LTE\Band2_3MHz_QPSK_1_14_HighCH19185-1908.5



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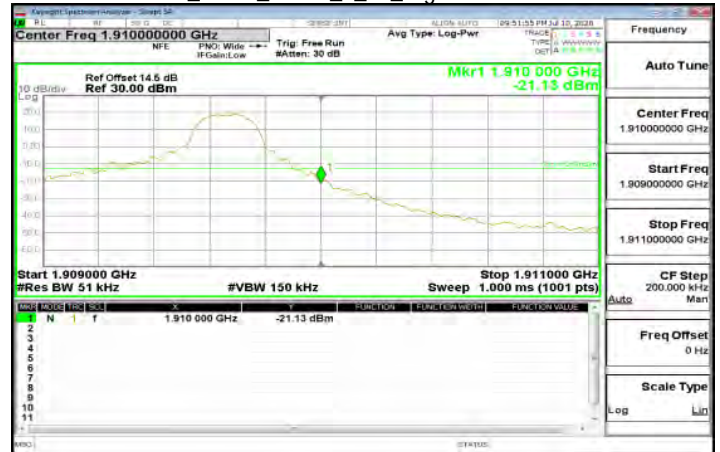
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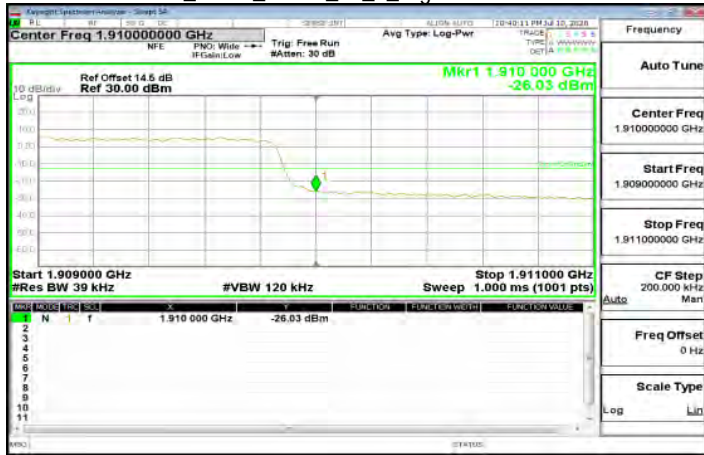
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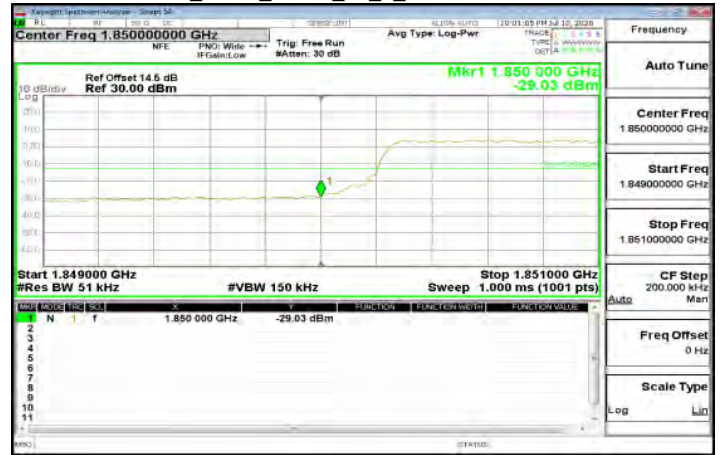
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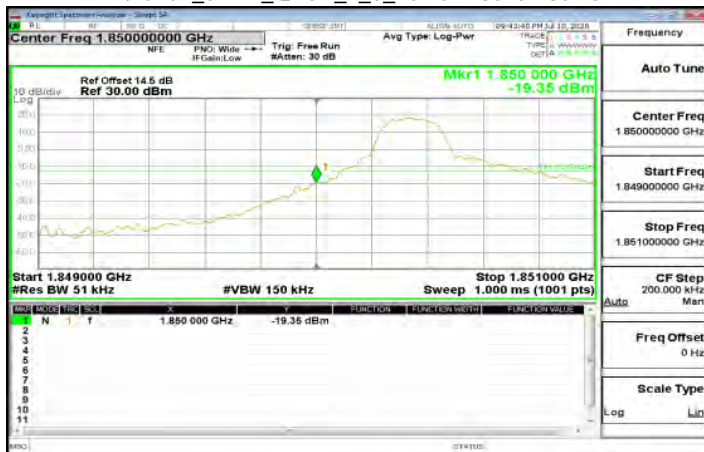
LTE\Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



LTE\Band2_5MHz_QPSK_25_0_LowCH18625-1852.5



LTE\Band2_5MHz_QPSK_1_0_LowCH18625-1852.5



LTE\Band2_5MHz_QPSK_25_0_HighCH19175-1907.5



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LTE\Band2_10MHz_QPSK_1_0_LowCH18650-1855



LTE\Band2_10MHz_QPSK_50_0_HighCH19150-1905



LTE\Band2_10MHz_QPSK_1_49_HighCH19150-1905



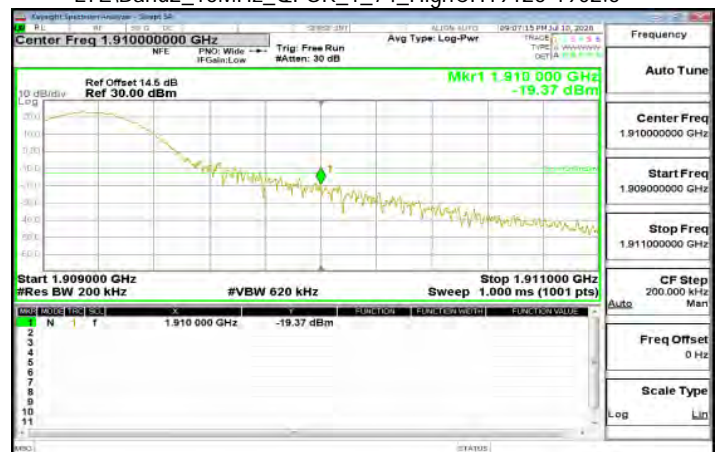
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LTE\Band2_10MHz_QPSK_50_0_LowCH18650-1855



LTE\Band2_15MHz_QPSK_1_74_HighCH19125-1902.5

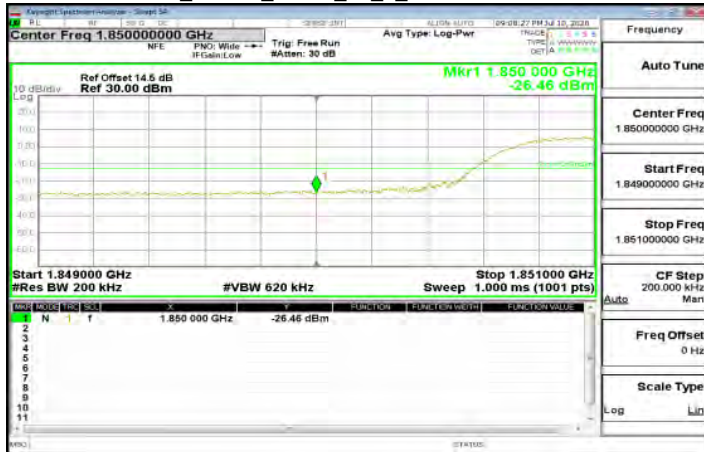


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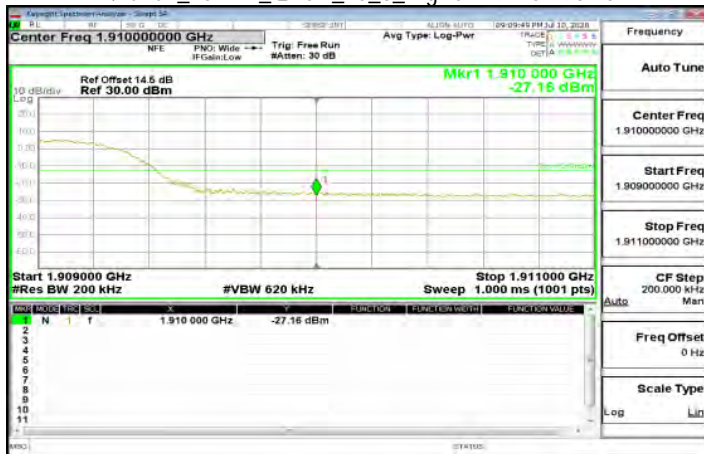
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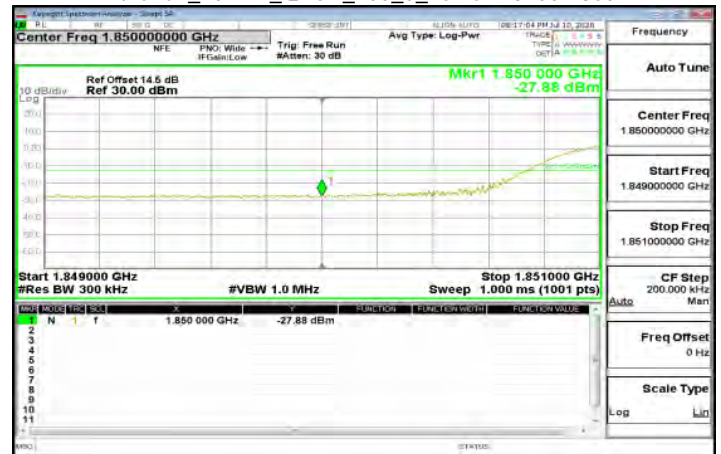
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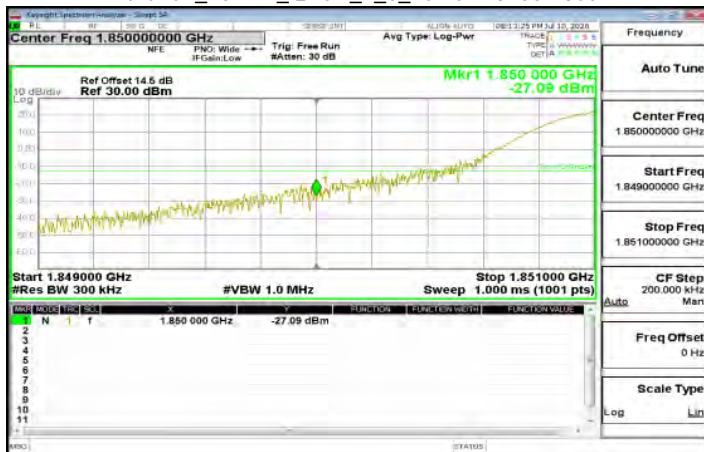
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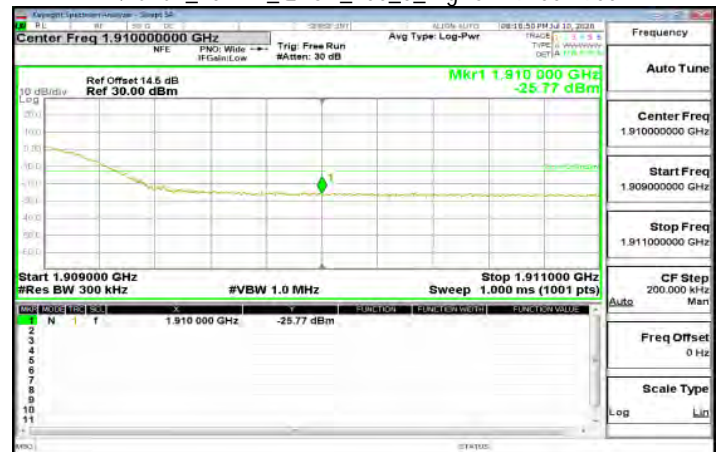
LTE\Band2_20MHz_QPSK_100_0_LowCH18700-1860



LTE\Band2_20MHz_QPSK_1_0_LowCH18700-1860



LTE\Band2_20MHz_QPSK_100_0_HighCH19100-1900

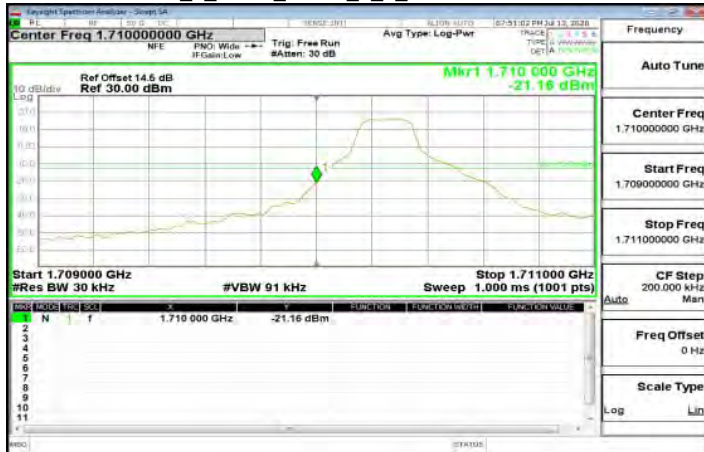


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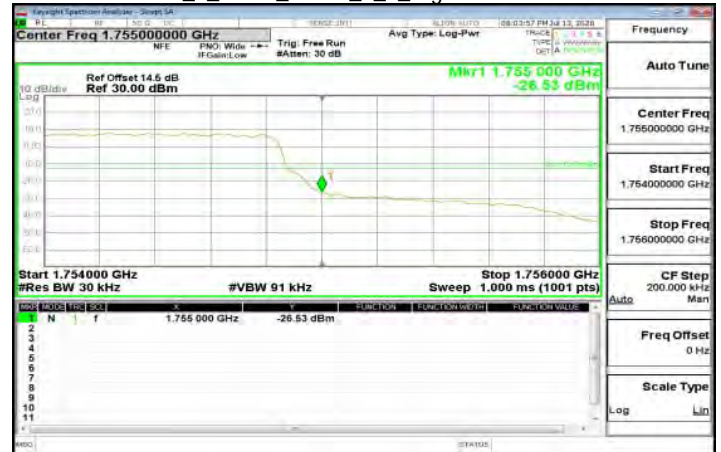
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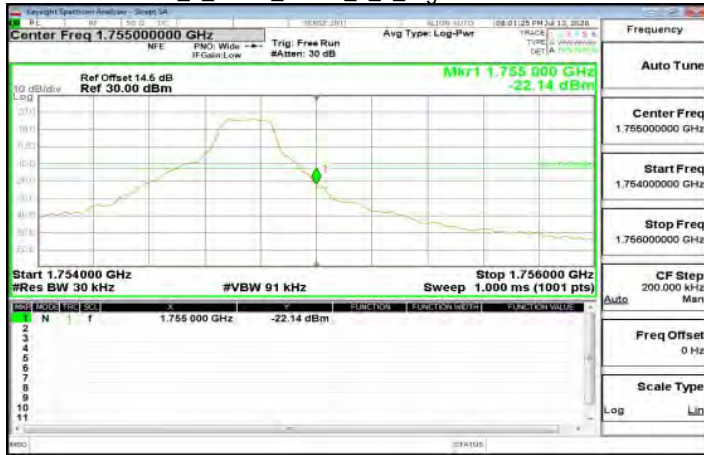
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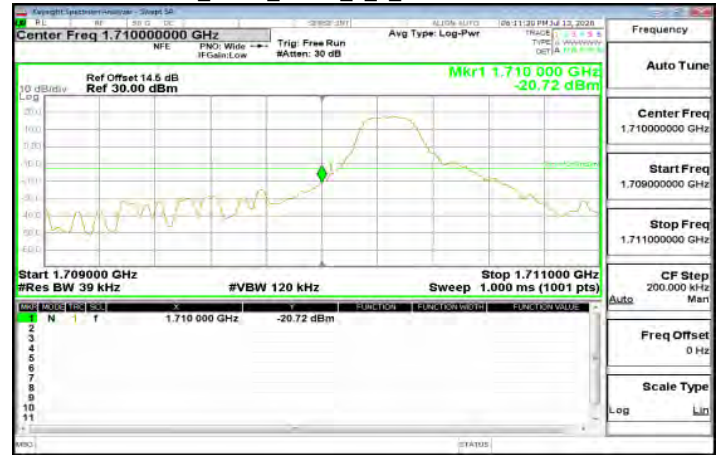
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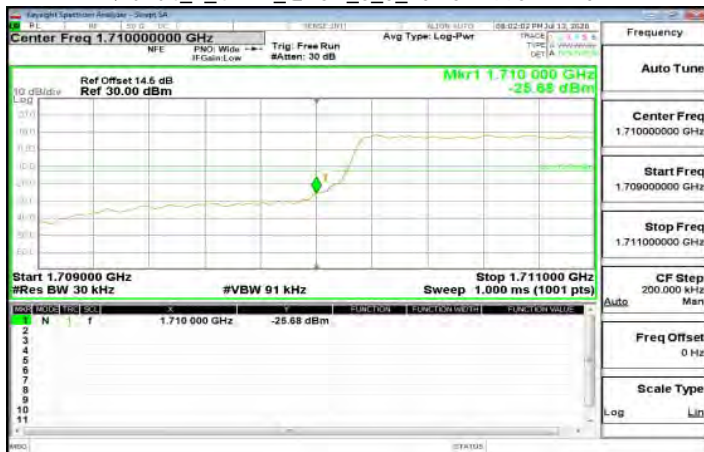
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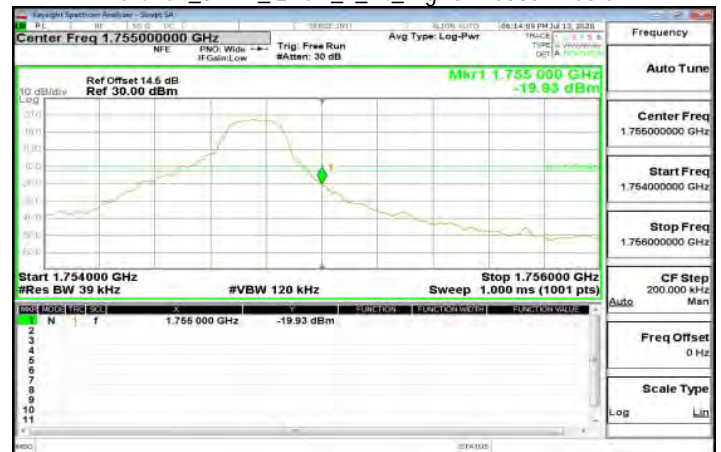
LTE\Band4_3MHz_QPSK_1_0_LowCH19965-1711.5



LTE\Band4_1_4MHz_QPSK_6_0_LowCH19957-1710.7



LTE\Band4_3MHz_QPSK_1_14_HighCH20385-1753.5



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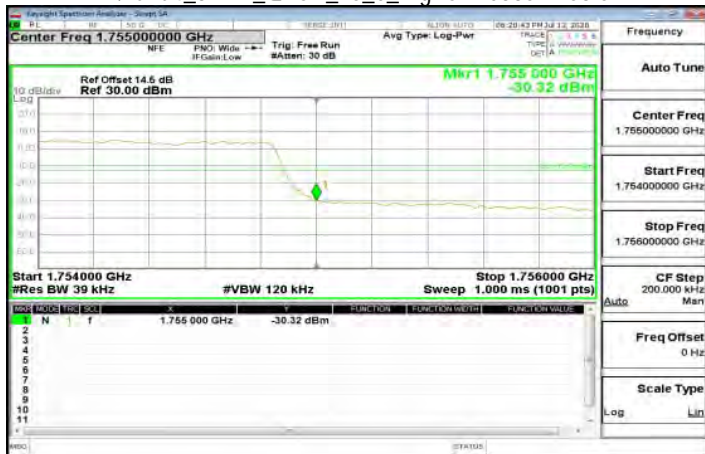
LTE\Band4_3MHz_QPSK_15_0_LowCH19965-1711.5



LTE\Band4_5MHz_QPSK_1_24_HighCH20375-1752.5



LTE\Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



LTE\Band4_5MHz_QPSK_25_0_LowCH19975-1712.5



LTE\Band4_5MHz_QPSK_1_0_LowCH19975-1712.5



LTE\Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



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LTE\Band4_10MHz_QPSK_1_0_LowCH20000-1715



LTE\Band4_10MHz_QPSK_50_0_HighCH20350-1750



LTE\Band4_10MHz_QPSK_1_49_HighCH20350-1750



LTE\Band4_15MHz_QPSK_1_0_LowCH20025-1717.5



LTE\Band4_10MHz_QPSK_50_0_LowCH20000-1715



LTE\Band4_15MHz_QPSK_1_74_HighCH20325-1747.5



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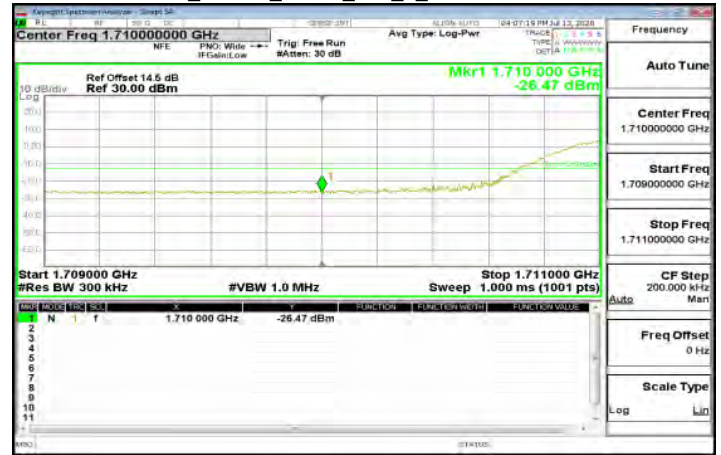
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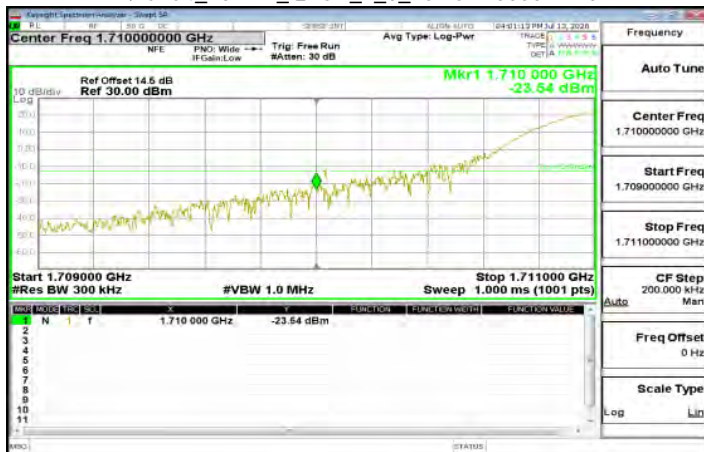
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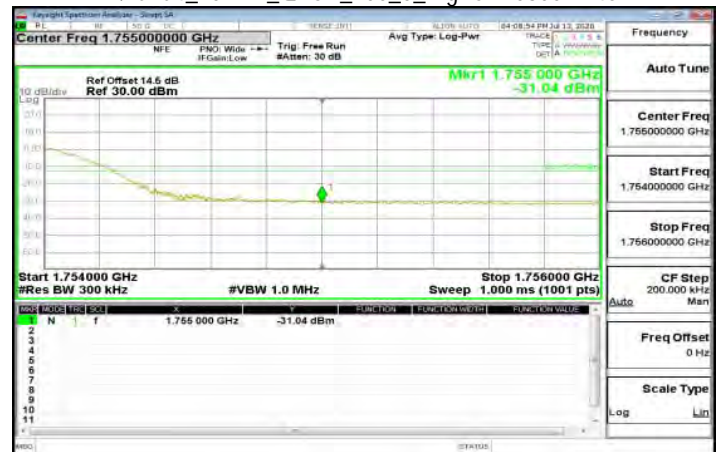
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LTE\Band4_20MHz_QPSK_1_0_LowCH20050-1720



LTE\Band4_20MHz_QPSK_100_0_HighCH20300-1745



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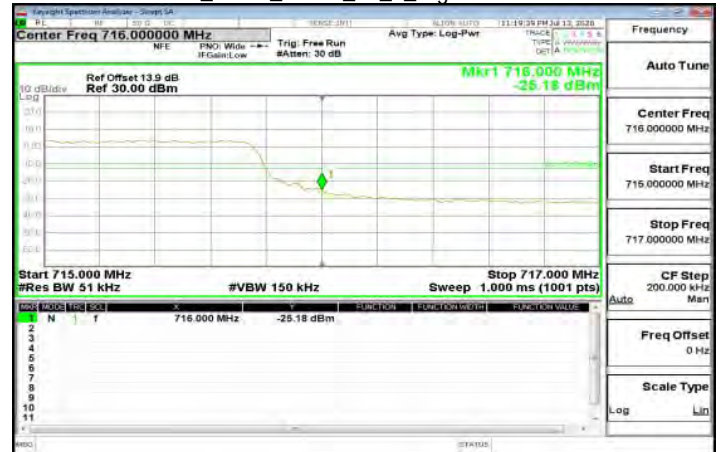
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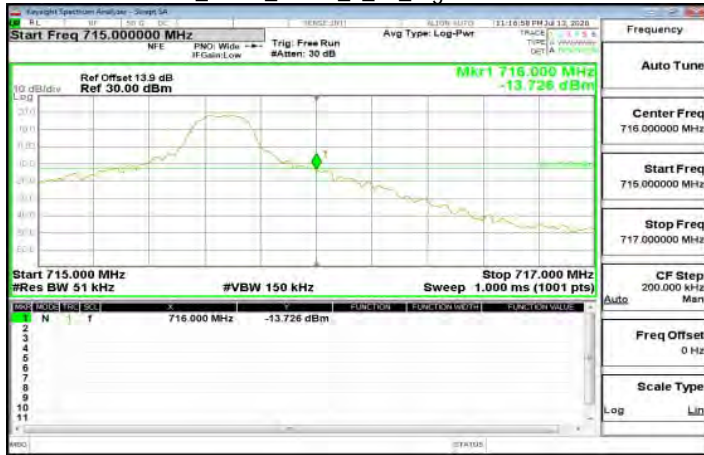
LTE\Band17_5MHz_QPSK_1_0_LowCH23755-706.5



LTE\Band17_5MHz_QPSK_25_0_HighCH23825-713.5



LTE\Band17_5MHz_QPSK_1_24_HighCH23825-713.5



LTE\Band17_10MHz_QPSK_1_0_LowCH23780-709



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LTE\Band17_10MHz_QPSK_1_49_HighCH23800-711

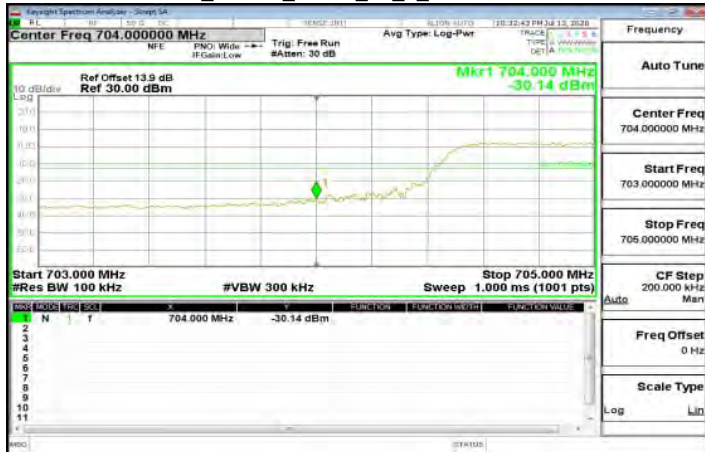


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LTE\Band17_10MHz_QPSK_50_0_LowCH23780-709



LTE\Band17_10MHz_QPSK_50_0_HighCH23800-711

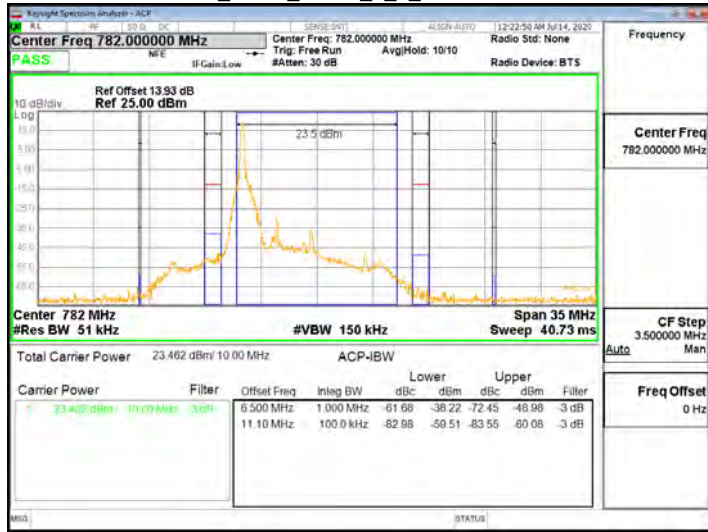


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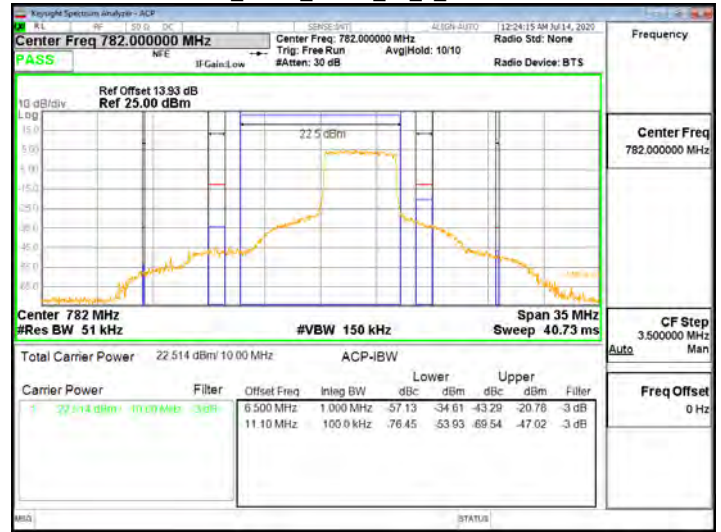
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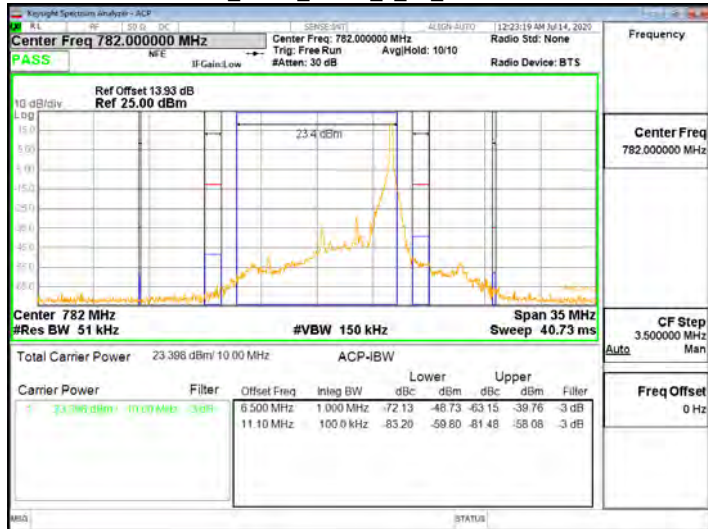
Mask Band13_5MHz_QPSK_1_0_CH23205



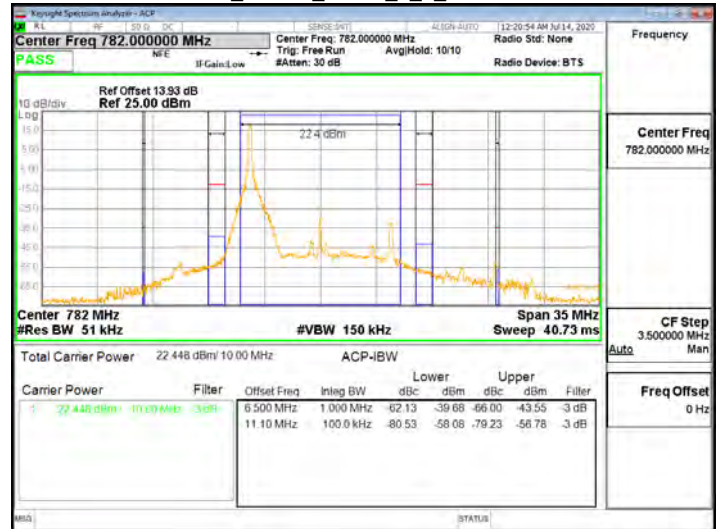
Band13_5MHz_QPSK_25_0_CH23255



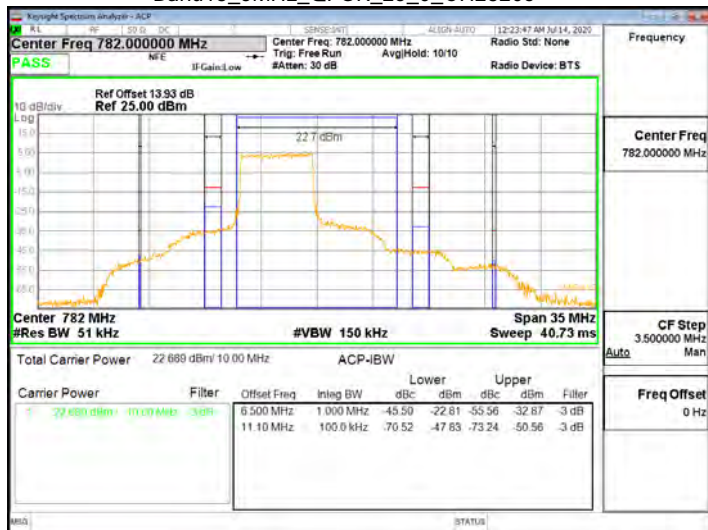
Band13_5MHz_QPSK_1_24_CH23255



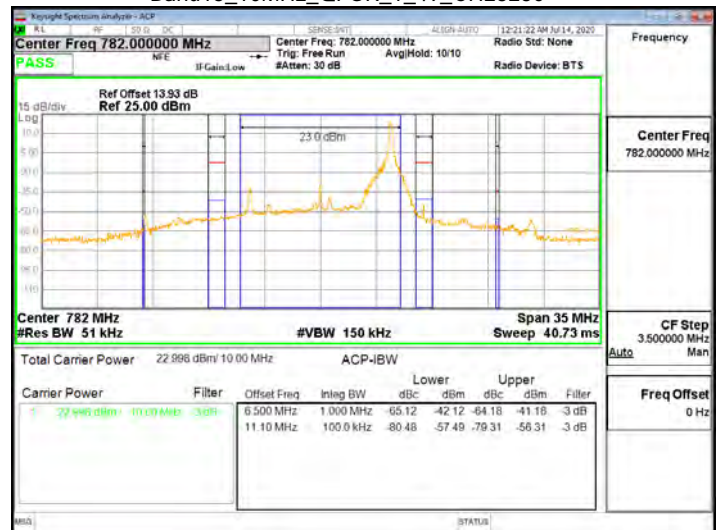
Band13_10MHz_QPSK_1_0_CH23230



Band13_5MHz_QPSK_25_0_CH23205



Band13_10MHz_QPSK_1_49_CH23230

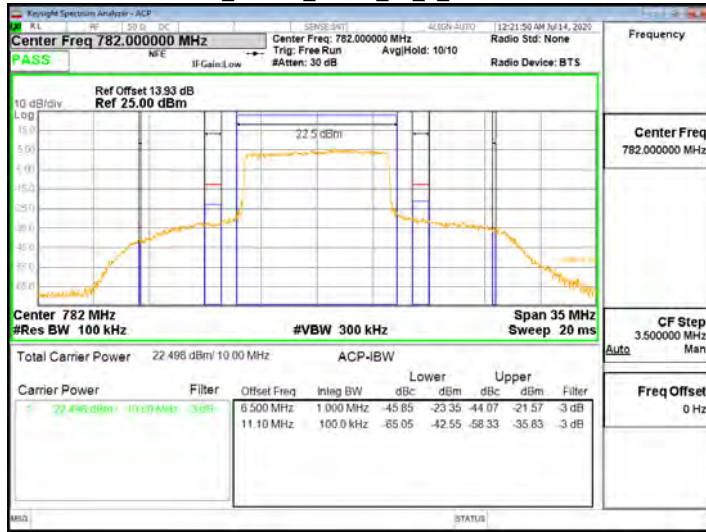


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Band13_10MHz_QPSK_50_0_CH23230



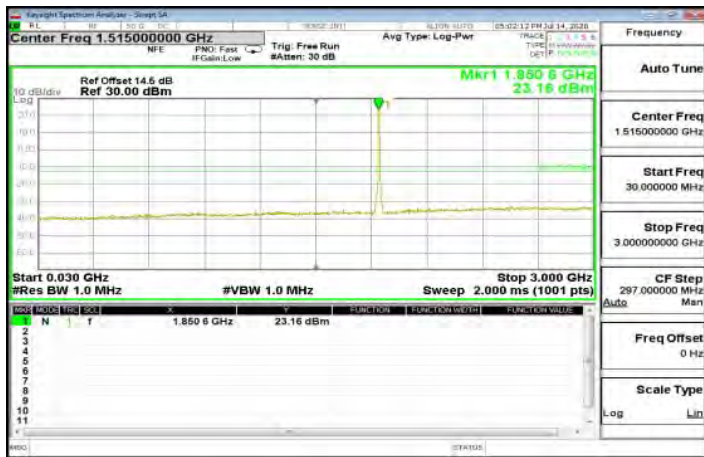
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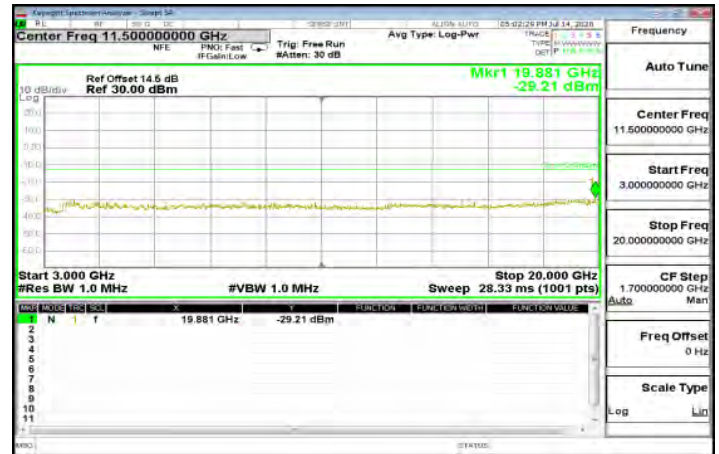
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Out of Band Emission

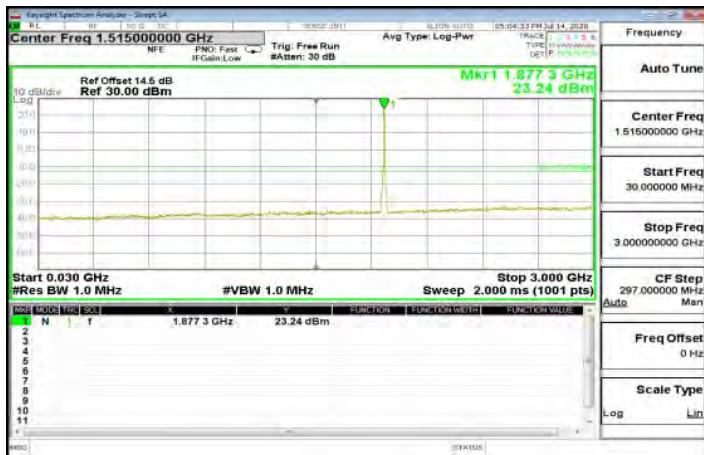
Spurious Emission Low_WCDMA_B2_LowCH9262-1852.4



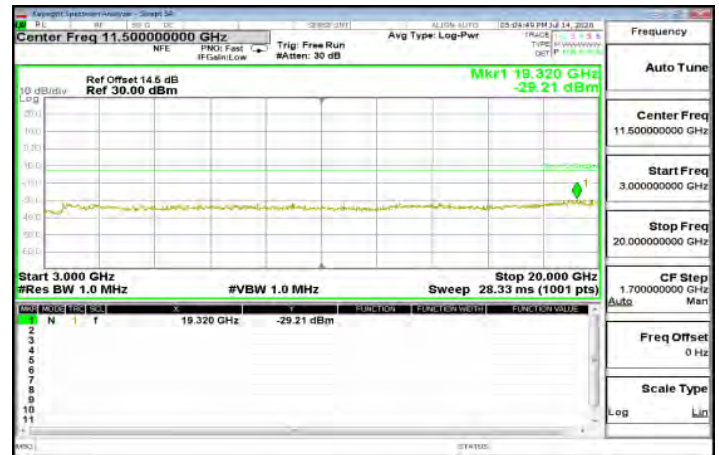
Spurious Emission High_WCDMA_B2_Low CH9262-1852.4



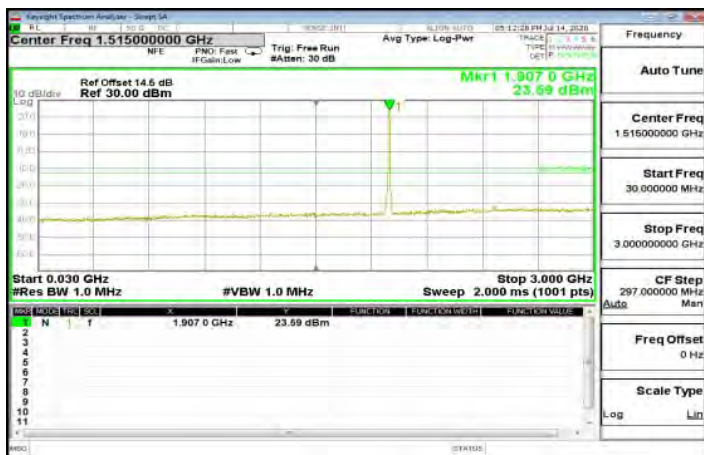
Spurious Emission Low_WCDMA_B2_Mid CH9400-1880



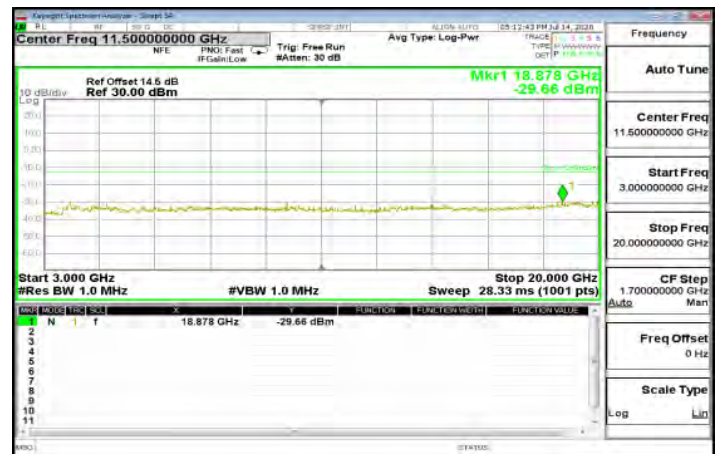
Spurious Emission High_WCDMA_B2_Mid CH9400-1880



Spurious Emission Low_WCDMA_B2_High CH9538-1907.6



Spurious Emission High_WCDMA_B2_High CH9538-1907.6



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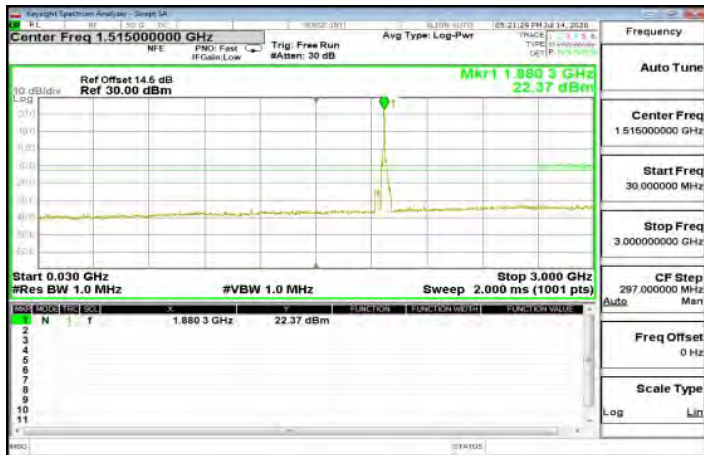
Spurious Emission Low_HSDPA_B2_LowCH9262-1852.4



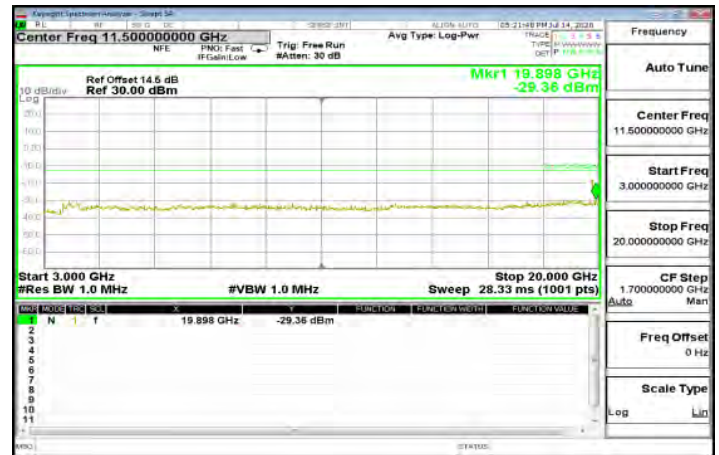
Spurious Emission High_HSDPA_B2_Low CH9262-1852.4



Spurious Emission Low_HSDPA_B2_Mid CH9400-1880



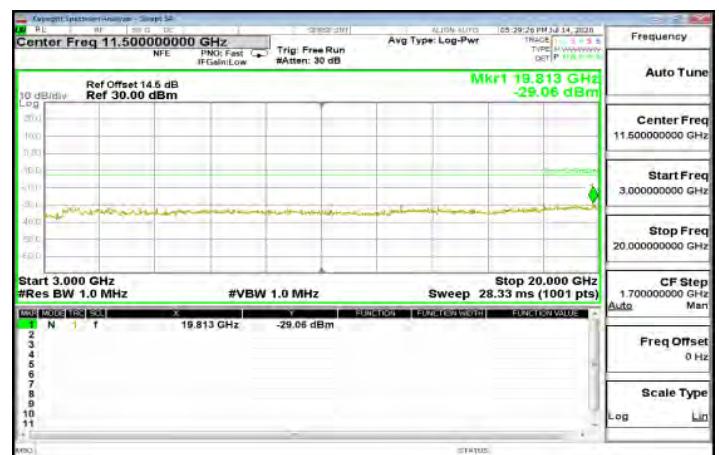
Spurious Emission High_HSDPA_B2_Mid CH9400-1880



Spurious Emission Low_HSDPA_B2_High CH9538-1907.6



Spurious Emission High_HSDPA_B2_HighCH9538-1907.6



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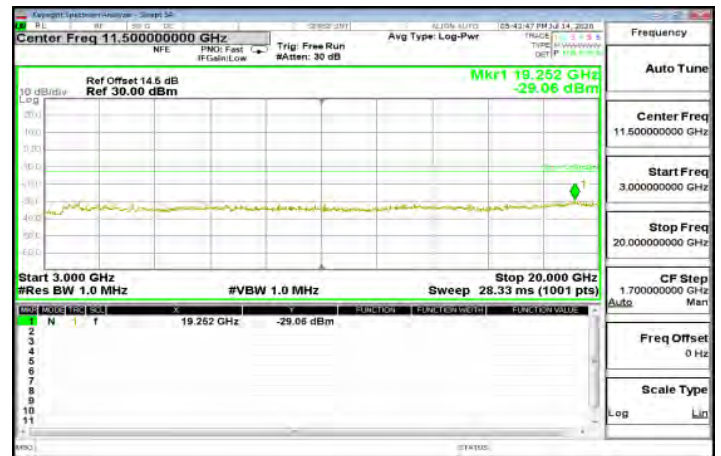
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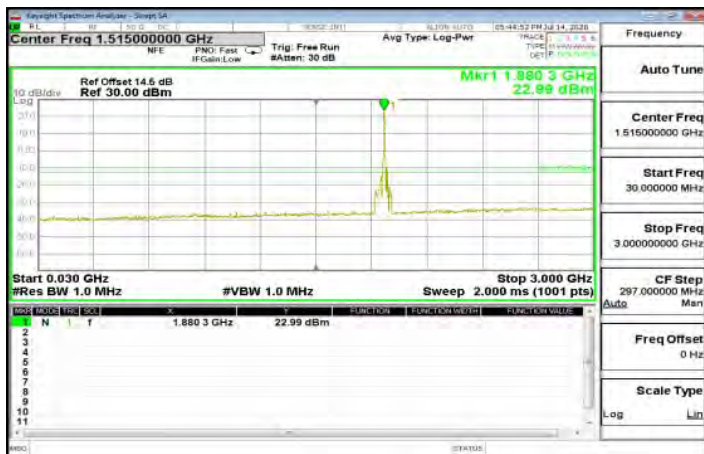
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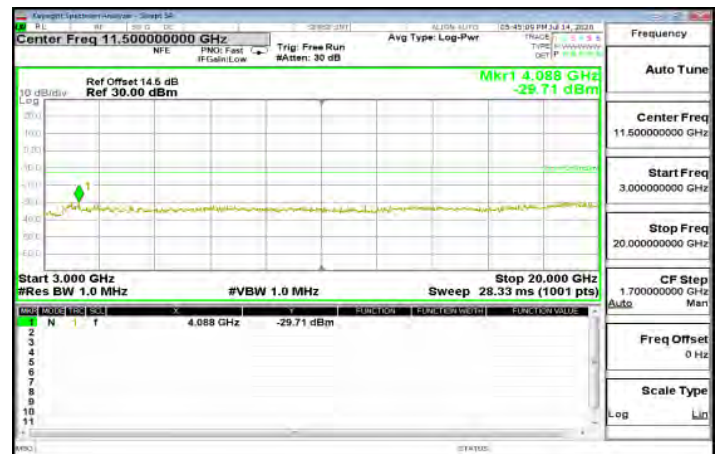
Spurious Emission High_ HSUPA_B2_Low CH9262-1852.4



Spurious Emission Low_ HSUPA_B2_Mid CH9400-1880



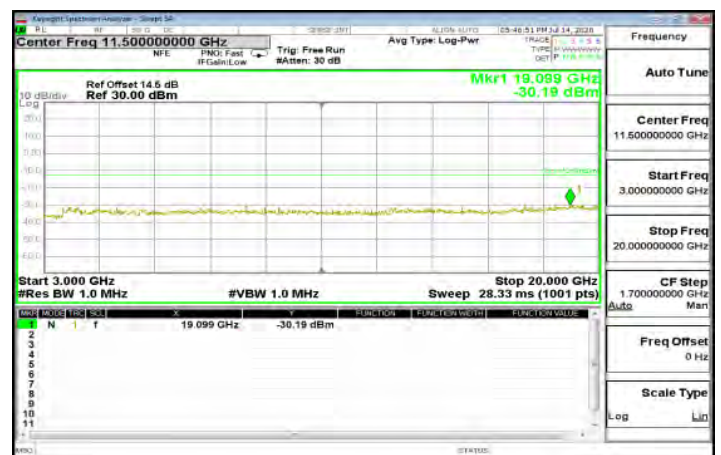
Spurious Emission High_ HSUPA_B2_Mid CH9400-1880



Spurious Emission Low_ HSUPA_B2_High CH9538-1907.6



Spurious Emission High_ HSUPA_B2_HighCH9538-1907.6

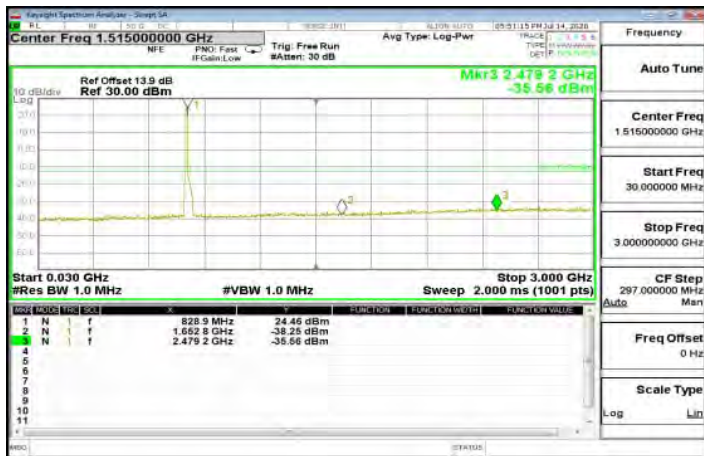


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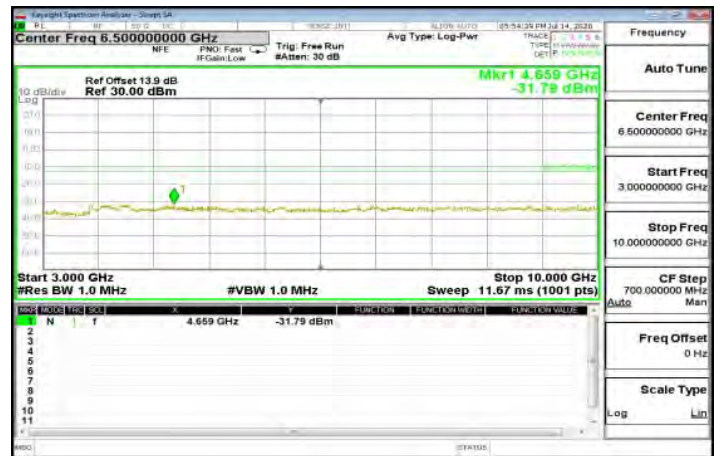
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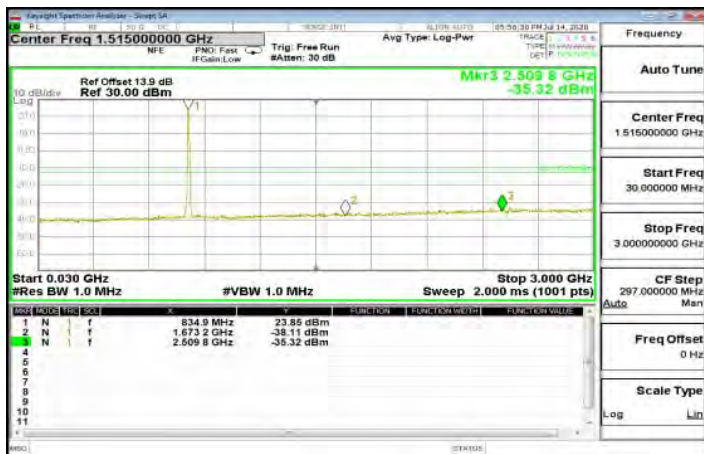
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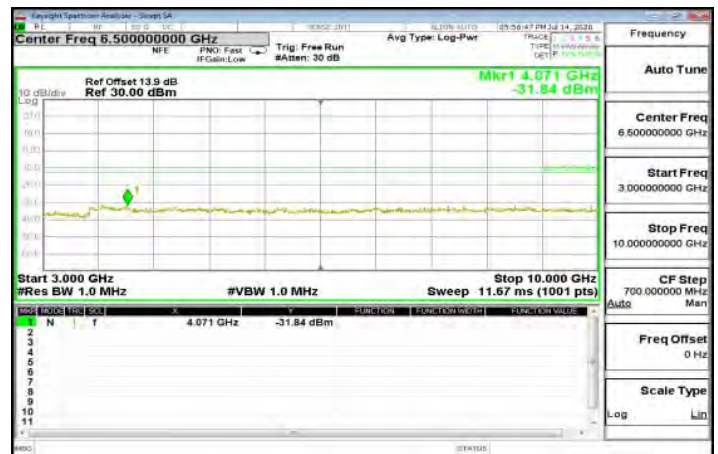
Spurious Emission High_WCDMA_B5_Low CH4132-826.4



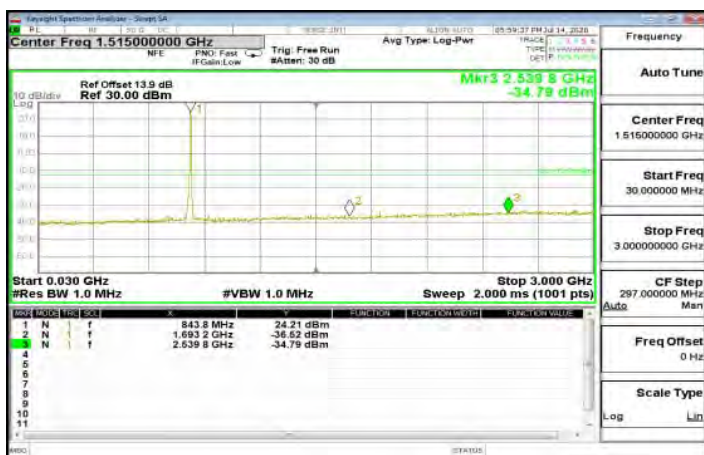
Spurious Emission Low_WCDMA_B5_Mid CH4183-836.6



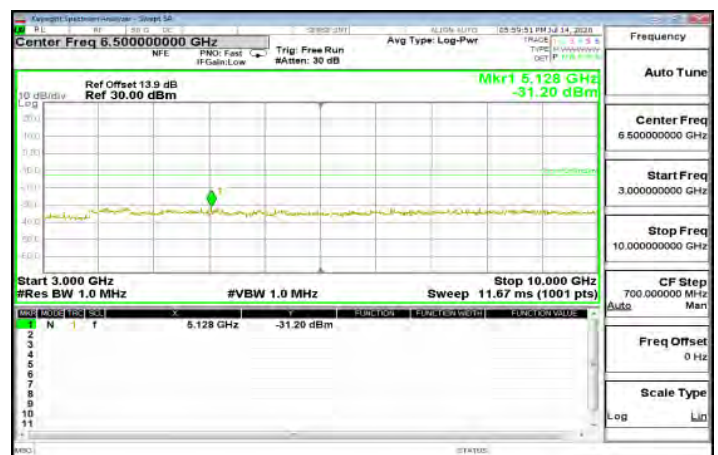
Spurious Emission High_WCDMA_B5_Mid CH4183-836.6



Spurious Emission Low_WCDMA_B5_High CH4233-846.6



Spurious Emission High_WCDMA_B5_HighCH4233-846.6

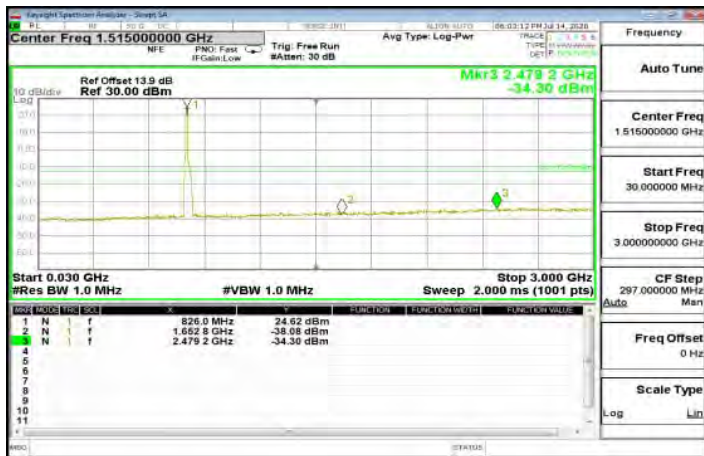


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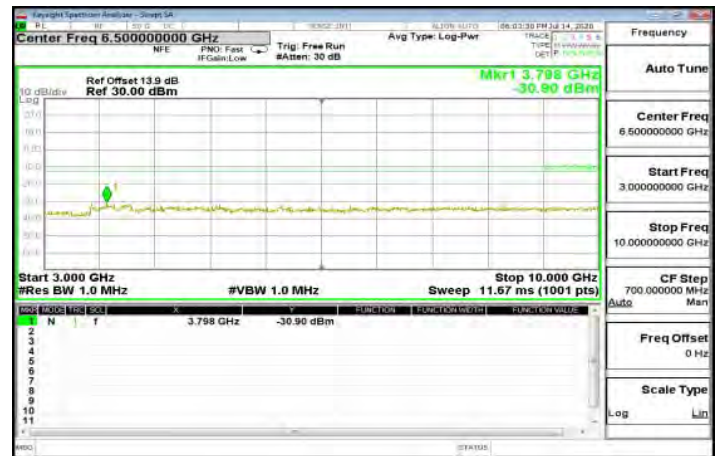
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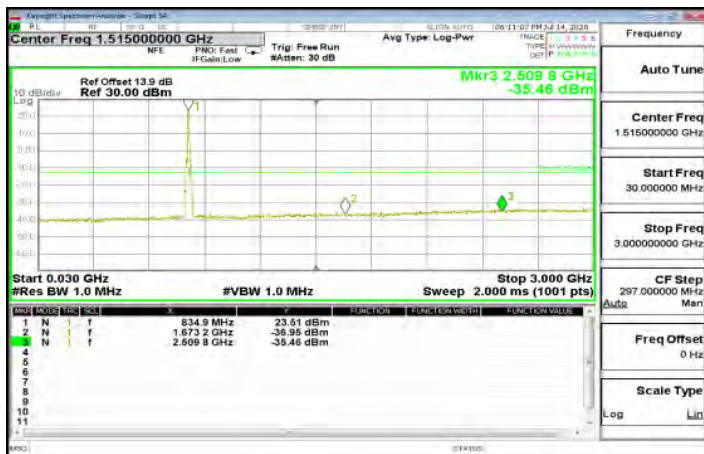
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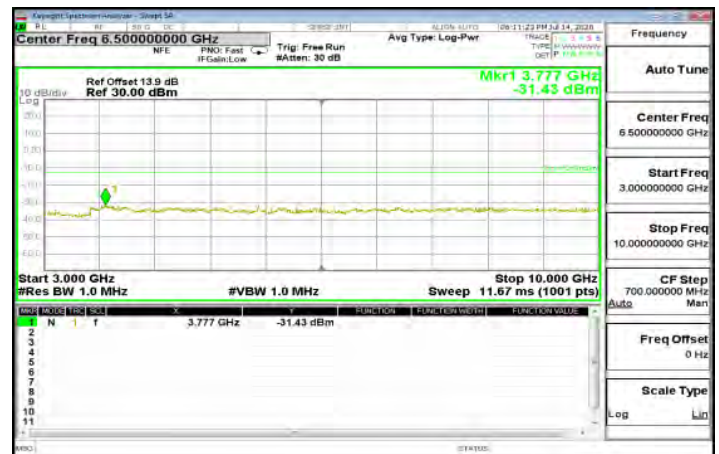
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Spurious Emission Low_ HSDPA_B5_Mid CH4183-836.6



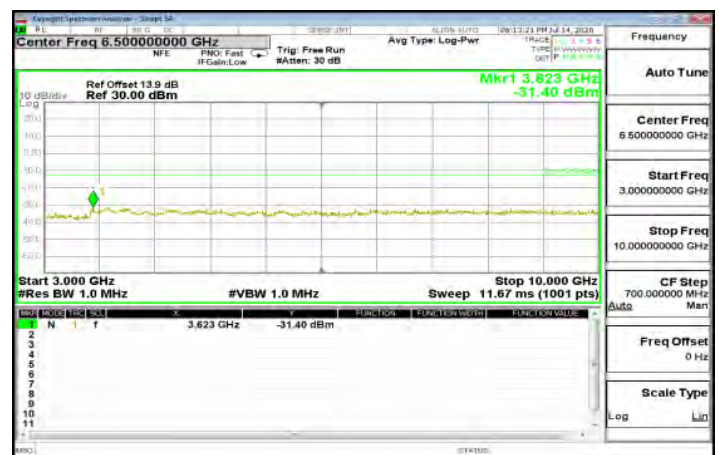
Spurious Emission High_ HSDPA_B5_Mid CH4183-836.6



Spurious Emission Low_ HSDPA_B5_High CH4233-846.6



Spurious Emission High_ HSDPA_B5_HighCH4233-846.6



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