

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT
INTENTIONAL RADIATOR CERTIFICATION TO
FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART
C REQUIREMENT

OF

Applicant: TaiDoc Technology Corp
6F, No.127, Wugong 2nd Road, 24888 Wugu Dist , New Taipei City , Taiwan

Product Name: Blood Glucose Plus Blood Pressure Monitoring System

Brand Name: N/A

Model No.: TD-3261G, TD-3261X(X=0~9,A~Z and blank)

Model Difference: Different product exterior color, logo and market

Report Number: T190304W06-RP

FCC ID: TM73261G01

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

Issue Date: Jun. 13, 2019

Date of Test: Mar. 04, 2019 ~ Jun. 06, 2019

Date of EUT Received: Mar. 04, 2019

Issued by: Compliance Certification Services Inc.Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.26: 2015 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By: _____

Peter Weng
Peter Weng / Engineer

Approved By: _____

Kevin Tsai
Kevin Tsai / Deputy Manager



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Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
T190304W06-RP	Rev.00	Initial creation of document	All	Jun. 13, 2019	Elle Chang

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Blood Glucose Plus Blood Pressure Monitoring System	
Brand Name:	N/A	
Model No.:	TD-3261G, TD-3261X(X=0~9,A~Z and blank)	
Model Difference:	Different product exterior color, logo and market	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	3.6Vdc from Rechargeable Li-polymer Battery or 5.99Vdc from AC/DC adapter	
	Battery:	Model No.: D14500 1S4P / 3261, Supplier: TOP-PWR Technology Co., Ltd
	Adapter:	Model No.: HPU15-102, Supplier: SINPRO

Antenna Designation

Vendor	Type	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
WHA YU GROUP	PCB	C1947-510005-A (SRF2018724)	LTE Band 2	1850 ~ 1910	4.1
			LTE Band 4	1710 ~ 1755	4.1
			LTE Band 5	824 ~ 849	4.1
			LTE Band 12	699 ~ 716	4.1

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

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
5	1.4	824.7	-	848.3
	3	825.5	-	847.5
	5	826.5	-	846.5
	10	829.0	-	844.0
12	1.4	699.7	-	715.3
	3	700.5	-	714.5
	5	701.5	-	713.5
	10	704.0	-	711.0

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

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	27.71	EIRP	0.590	1M10G7D
		16QAM	26.78	EIRP	0.476	1M11D7W
2	3	QPSK	27.65	EIRP	0.582	2M70G7D
		16QAM	26.77	EIRP	0.475	2M71D7W
2	5	QPSK	27.63	EIRP	0.579	4M51G7D
		16QAM	26.78	EIRP	0.476	4M50D7W
2	10	QPSK	27.65	EIRP	0.582	9M03G7D
		16QAM	26.78	EIRP	0.476	9M00D7W
2	15	QPSK	27.67	EIRP	0.585	13M5G7D
		16QAM	26.78	EIRP	0.476	13M5D7W
2	20	QPSK	27.77	EIRP	0.598	18M0G7D
		16QAM	26.80	EIRP	0.479	18M0D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	27.72	EIRP	0.592	1M11G7D
		16QAM	26.80	EIRP	0.479	1M11D7W
4	3	QPSK	27.71	EIRP	0.590	2M71G7D
		16QAM	26.80	EIRP	0.479	2M71D7W
4	5	QPSK	27.72	EIRP	0.592	4M50G7D
		16QAM	26.73	EIRP	0.471	4M50D7W
4	10	QPSK	27.73	EIRP	0.593	9M01G7D
		16QAM	26.79	EIRP	0.478	8M99D7W
4	15	QPSK	27.72	EIRP	0.592	13M5G7D
		16QAM	26.76	EIRP	0.474	13M5D7W
4	20	QPSK	27.79	EIRP	0.601	18M0G7D
		16QAM	26.79	EIRP	0.478	18M0D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	25.56	ERP	0.360	1M10G7D
		16QAM	24.65	ERP	0.292	1M10D7W
5	3	QPSK	25.55	ERP	0.359	2M71G7D
		16QAM	24.61	ERP	0.289	2M72D7W
5	5	QPSK	25.59	ERP	0.362	4M51G7D
		16QAM	24.55	ERP	0.285	4M50D7W
5	10	QPSK	25.65	ERP	0.367	9M02G7D
		16QAM	24.63	ERP	0.290	9M00D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
12	1.4	QPSK	25.57	ERP	0.361	1M10G7D
		16QAM	24.61	ERP	0.289	1M10D7W
12	3	QPSK	25.56	ERP	0.360	2M70G7D
		16QAM	24.62	ERP	0.290	2M71D7W
12	5	QPSK	25.59	ERP	0.362	4M51G7D
		16QAM	24.57	ERP	0.286	4M50D7W
12	10	QPSK	25.65	ERP	0.367	9M02G7D
		16QAM	24.63	ERP	0.290	8M99D7W

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1.4. Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

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

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

1.5. Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

2.4. Measurement Results Explanation Example

For all conducted test items:

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

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Note:

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

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	5	10	15
High Band (Above 1 GHz)	5	10	15

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
LTE Band 2	3.6	695
LTE Band 4		697
LTE Band 5		689
LTE Band 12		686

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2.6. Configuration of Tested System

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

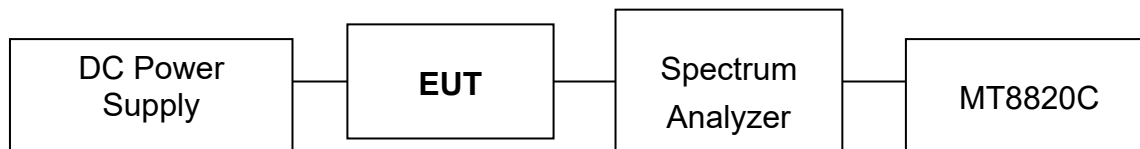


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

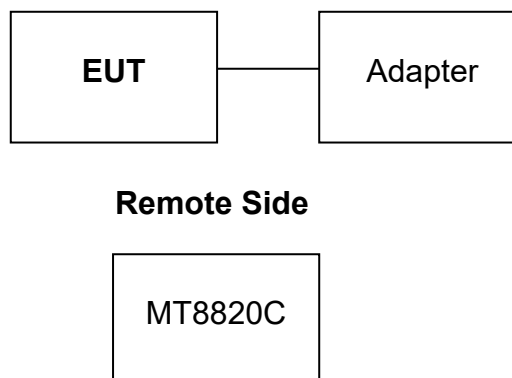


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyser	Anritsu	MT8820C	6201465317	shielded	Un-shielded
2.	DC Power Supply	Anritsu	E3640A	MY52410006	N/A	Unshielded

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3. SUMMARY OF TEST RESULTS

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

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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

BAND	RADIATED EMISSION
LTE Band 2	E2-plan
LTE Band 4	E2-plan
LTE Band 5	E2-plan
LTE Band 12	E2-plan

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LTE Band 2 MODE

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

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LTE Band 4 MODE

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

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LTE Band 5 MODE

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

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LTE Band 12 MODE

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

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Output Power	+/- 1.15 dB
99% Occupied Bandwidth	+/- 0.89%
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.89 dB
Frequency Stability vs. Temperature	+/- 2.64 Hz
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200MHz ~ 1GHz	+/- 4.68
3M Semi Anechoic Chamber / 1GHz ~ 8GHz	+/- 5.18
3M Semi Anechoic Chamber / 8GHz ~ 18GHz	+/- 5.47
3M Semi Anechoic Chamber / 18GHz ~ 26GHz	+/- 3.81
3M Semi Anechoic Chamber / 26GHz ~ 40GHz	+/- 3.87

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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6. RF CONDUCTED OUTPUT POWER MEASUREMENT

6.1. Standard Applicable

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

ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a) (5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

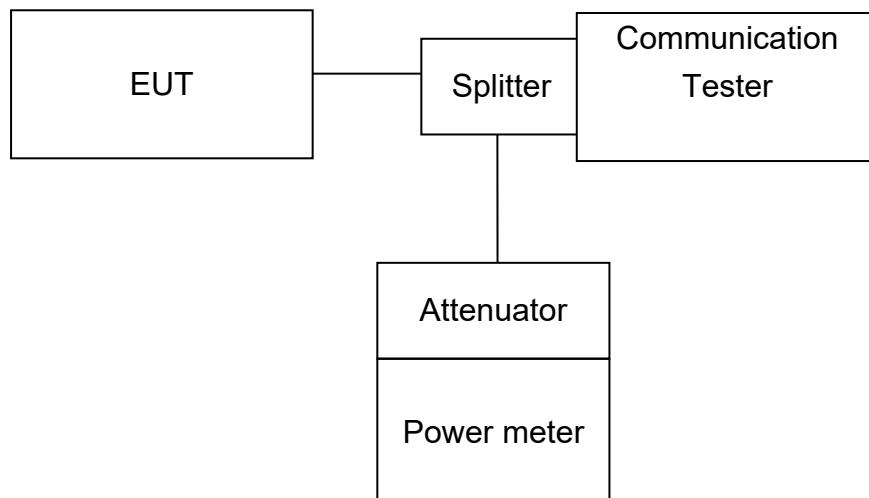
FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

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

FCC 27.50(d)(4) Mobile and portable (hand-held) stations are limited to 1 watts EIRP.

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

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3. Measurement Procedure

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

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

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

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

TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

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

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

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

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

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

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

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6.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyzer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019

6.5. Measurement Result

LTE Result:

FDD Band 2

Antenna gain (dBi) 4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	23.51	27.61	33	-5.39
				1	5	23.56	27.66	33	-5.34
				3	2	23.61	27.71	33	-5.29
				6	0	22.57	26.67	33	-6.33
	18900	1880	QPSK	1	0	23.46	27.56	33	-5.44
				1	5	23.60	27.70	33	-5.3
				3	2	23.46	27.56	33	-5.44
				6	0	22.69	26.79	33	-6.21
	19193	1909.3	QPSK	1	0	23.51	27.61	33	-5.39
				1	5	23.56	27.66	33	-5.34
				3	2	23.51	27.61	33	-5.39
				6	0	22.53	26.63	33	-6.37
	18607	1850.7	16QAM	1	0	22.54	26.64	33	-6.36
				1	5	22.68	26.78	33	-6.22
				3	2	22.66	26.76	33	-6.24
				6	0	21.56	25.66	33	-7.34
	18900	1880	16QAM	1	0	22.58	26.68	33	-6.32
				1	5	22.67	26.77	33	-6.23
				3	2	22.64	26.74	33	-6.26
				6	0	21.52	25.62	33	-7.38
	19193	1909.3	16QAM	1	0	22.68	26.78	33	-6.22
				1	5	22.64	26.74	33	-6.26
				3	2	22.59	26.69	33	-6.31
				6	0	21.52	25.62	33	-7.38

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Antenna gain (dBi) 4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	23.43	27.53	33	-5.47
				1	14	23.55	27.65	33	-5.35
				8	4	22.55	26.65	33	-6.35
				15	0	22.65	26.75	33	-6.25
	18900	1880	QPSK	1	0	23.53	27.63	33	-5.37
				1	14	23.46	27.56	33	-5.44
				8	4	22.59	26.69	33	-6.31
				15	0	22.69	26.79	33	-6.21
	19185	1908.5	QPSK	1	0	23.49	27.59	33	-5.41
				1	14	23.48	27.58	33	-5.42
				8	4	22.63	26.73	33	-6.27
				15	0	22.68	26.78	33	-6.22
	18615	1851.5	16QAM	1	0	22.51	26.61	33	-6.39
				1	14	22.54	26.64	33	-6.36
				8	4	21.65	25.75	33	-7.25
				15	0	21.57	25.67	33	-7.33
	18900	1880	16QAM	1	0	22.51	26.61	33	-6.39
				1	14	22.65	26.75	33	-6.25
				8	4	21.59	25.69	33	-7.31
				15	0	21.60	25.70	33	-7.3
	19185	1908.5	16QAM	1	0	22.64	26.74	33	-6.26
				1	14	22.67	26.77	33	-6.23
				8	4	21.68	25.78	33	-7.22
				15	0	21.68	25.78	33	-7.22

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Antenna gain (dBi) 4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	23.51	27.61	33	-5.39
				1	24	23.47	27.57	33	-5.43
				12	6	22.56	26.66	33	-6.34
				25	0	22.57	26.67	33	-6.33
	18900	1880	QPSK	1	0	23.53	27.63	33	-5.37
				1	24	23.51	27.61	33	-5.39
				12	6	22.63	26.73	33	-6.27
				25	0	22.60	26.70	33	-6.3
	19175	1907.5	QPSK	1	0	23.53	27.63	33	-5.37
				1	24	23.49	27.59	33	-5.41
				12	6	22.66	26.76	33	-6.24
				25	0	22.63	26.73	33	-6.27
	18625	1852.5	16QAM	1	0	22.59	26.69	33	-6.31
				1	24	22.56	26.66	33	-6.34
				12	6	21.63	25.73	33	-7.27
				25	0	21.53	25.63	33	-7.37
	18900	1880	16QAM	1	0	22.68	26.78	33	-6.22
				1	24	22.59	26.69	33	-6.31
				12	6	21.58	25.68	33	-7.32
				25	0	21.64	25.74	33	-7.26
	19175	1907.5	16QAM	1	0	22.65	26.75	33	-6.25
				1	24	22.65	26.75	33	-6.25
				12	6	21.62	25.72	33	-7.28
				25	0	21.51	25.61	33	-7.39

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Antenna gain (dBi) 4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	23.49	27.59	33	-5.41
				1	49	23.53	27.63	33	-5.37
				25	12	22.66	26.76	33	-6.24
				50	0	22.61	26.71	33	-6.29
	18900	1880	QPSK	1	0	23.53	27.63	33	-5.37
				1	49	23.48	27.58	33	-5.42
				25	12	22.51	26.61	33	-6.39
				50	0	22.52	26.62	33	-6.38
	19150	1905	QPSK	1	0	23.55	27.65	33	-5.35
				1	49	23.51	27.61	33	-5.39
				25	12	22.58	26.68	33	-6.32
				50	0	22.61	26.71	33	-6.29
	18650	1855	16QAM	1	0	22.67	26.77	33	-6.23
				1	49	22.52	26.62	33	-6.38
				25	12	21.69	25.79	33	-7.21
				50	0	21.69	25.79	33	-7.21
	18900	1880	16QAM	1	0	22.51	26.61	33	-6.39
				1	49	22.64	26.74	33	-6.26
				25	12	21.52	25.62	33	-7.38
				50	0	21.62	25.72	33	-7.28
	19150	1905	16QAM	1	0	22.68	26.78	33	-6.22
				1	49	22.59	26.69	33	-6.31
				25	12	21.62	25.72	33	-7.28
				50	0	21.52	25.62	33	-7.38

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Antenna gain (dBi) 4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	23.47	27.57	33	-5.43
				1	74	23.57	27.67	33	-5.33
				36	18	22.64	26.74	33	-6.26
				75	0	22.70	26.80	33	-6.2
	18900	1880	QPSK	1	0	23.51	27.61	33	-5.39
				1	74	23.54	27.64	33	-5.36
				36	18	22.60	26.70	33	-6.3
				75	0	22.63	26.73	33	-6.27
	19125	1902.5	QPSK	1	0	23.54	27.64	33	-5.36
				1	74	23.54	27.64	33	-5.36
				36	18	22.58	26.68	33	-6.32
				75	0	22.68	26.78	33	-6.22
	18675	1857.5	16QAM	1	0	22.54	26.64	33	-6.36
				1	74	22.57	26.67	33	-6.33
				36	18	21.58	25.68	33	-7.32
				75	0	21.65	25.75	33	-7.25
	18900	1880	16QAM	1	0	22.63	26.73	33	-6.27
				1	74	22.68	26.78	33	-6.22
				36	18	21.61	25.71	33	-7.29
				75	0	21.59	25.69	33	-7.31
	19125	1902.5	16QAM	1	0	22.62	26.72	33	-6.28
				1	74	22.55	26.65	33	-6.35
				36	18	21.64	25.74	33	-7.26
				75	0	21.70	25.80	33	-7.2

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Antenna gain (dBi) 4.1

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	23.63	27.73	33	-5.27
				1	99	23.43	27.53	33	-5.47
				50	25	22.52	26.62	33	-6.38
				100	0	22.52	26.62	33	-6.38
	18900	1880	QPSK	1	0	23.61	27.71	33	-5.29
				1	99	23.39	27.49	33	-5.51
				50	25	22.67	26.77	33	-6.23
				100	0	22.56	26.66	33	-6.34
	19100	1900	QPSK	1	0	23.67	27.77	33	-5.23
				1	99	23.36	27.46	33	-5.54
				50	25	22.56	26.66	33	-6.34
				100	0	22.70	26.80	33	-6.2
	18700	1860	16QAM	1	0	22.69	26.79	33	-6.21
				1	99	22.58	26.68	33	-6.32
				50	25	21.52	25.62	33	-7.38
				100	0	21.70	25.80	33	-7.2
	18900	1880	16QAM	1	0	22.60	26.70	33	-6.3
				1	99	22.70	26.80	33	-6.2
				50	25	21.58	25.68	33	-7.32
				100	0	21.56	25.66	33	-7.34
	19100	1900	16QAM	1	0	22.70	26.80	33	-6.2
				1	99	22.63	26.73	33	-6.27
				50	25	21.64	25.74	33	-7.26
				100	0	21.69	25.79	33	-7.21

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FDD Band 4

Antenna gain (dBi) 4.1

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.59	27.69	30	-2.31
				1	5	23.52	27.62	30	-2.38
				3	2	23.62	27.72	30	-2.28
				6	0	22.52	26.62	30	-3.38
	20175	1732.5	QPSK	1	0	23.52	27.62	30	-2.38
				1	5	23.51	27.61	30	-2.39
				3	2	23.60	27.70	30	-2.3
				6	0	22.58	26.68	30	-3.32
	20393	1754.3	QPSK	1	0	23.53	27.63	30	-2.37
				1	5	23.58	27.68	30	-2.32
				3	2	23.54	27.64	30	-2.36
				6	0	22.57	26.67	30	-3.33
	19957	1710.7	16QAM	1	0	22.70	26.80	30	-3.2
				1	5	22.60	26.70	30	-3.3
				3	2	22.66	26.76	30	-3.24
				6	0	21.70	25.80	30	-4.2
	20175	1732.5	16QAM	1	0	22.63	26.73	30	-3.27
				1	5	22.63	26.73	30	-3.27
				3	2	22.69	26.79	30	-3.21
				6	0	21.63	25.73	30	-4.27
	20393	1754.3	16QAM	1	0	22.67	26.77	30	-3.23
				1	5	22.56	26.66	30	-3.34
				3	2	22.52	26.62	30	-3.38
				6	0	21.67	25.77	30	-4.23

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Antenna gain (dBi) 4.1

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.58	27.68	30	-2.32
				1	14	23.53	27.63	30	-2.37
				8	4	22.62	26.72	30	-3.28
				15	0	22.63	26.73	30	-3.27
	20175	1732.5	QPSK	1	0	23.61	27.71	30	-2.29
				1	14	23.55	27.65	30	-2.35
				8	4	22.67	26.77	30	-3.23
				15	0	22.68	26.78	30	-3.22
	20385	1753.5	QPSK	1	0	23.51	27.61	30	-2.39
				1	14	23.54	27.64	30	-2.36
				8	4	22.66	26.76	30	-3.24
				15	0	22.51	26.61	30	-3.39
	19965	1711.5	16QAM	1	0	22.70	26.80	30	-3.2
				1	14	22.59	26.69	30	-3.31
				8	4	21.54	25.64	30	-4.36
				15	0	21.66	25.76	30	-4.24
	20175	1732.5	16QAM	1	0	22.53	26.63	30	-3.37
				1	14	22.70	26.80	30	-3.2
				8	4	21.69	25.79	30	-4.21
				15	0	21.52	25.62	30	-4.38
	20385	1753.5	16QAM	1	0	22.69	26.79	30	-3.21
				1	14	22.62	26.72	30	-3.28
				8	4	21.56	25.66	30	-4.34
				15	0	21.69	25.79	30	-4.21

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Antenna gain (dBi) 4.1

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.53	27.63	30	-2.37
				1	24	23.58	27.68	30	-2.32
				12	6	22.60	26.70	30	-3.3
				25	0	22.59	26.69	30	-3.31
	20175	1732.5	QPSK	1	0	23.51	27.61	30	-2.39
				1	24	23.62	27.72	30	-2.28
				12	6	22.55	26.65	30	-3.35
				25	0	22.58	26.68	30	-3.32
	20375	1752.5	QPSK	1	0	23.61	27.71	30	-2.29
				1	24	23.58	27.68	30	-2.32
				12	6	22.66	26.76	30	-3.24
				25	0	22.55	26.65	30	-3.35
	19975	1712.5	16QAM	1	0	22.54	26.64	30	-3.36
				1	24	22.52	26.62	30	-3.38
				12	6	21.58	25.68	30	-4.32
				25	0	21.63	25.73	30	-4.27
	20175	1732.5	16QAM	1	0	22.63	26.73	30	-3.27
				1	24	22.53	26.63	30	-3.37
				12	6	21.53	25.63	30	-4.37
				25	0	21.51	25.61	30	-4.39
	20375	1752.5	16QAM	1	0	22.53	26.63	30	-3.37
				1	24	22.51	26.61	30	-3.39
				12	6	21.60	25.70	30	-4.3
				25	0	21.60	25.70	30	-4.3

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Antenna gain (dBi) 4.1

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.57	27.67	30	-2.33
				1	49	23.58	27.68	30	-2.32
				25	12	22.56	26.66	30	-3.34
				50	0	22.67	26.77	30	-3.23
	20175	1732.5	QPSK	1	0	23.57	27.67	30	-2.33
				1	49	23.63	27.73	30	-2.27
				25	12	22.64	26.74	30	-3.26
				50	0	22.57	26.67	30	-3.33
	20375	1750	QPSK	1	0	23.61	27.71	30	-2.29
				1	49	23.60	27.70	30	-2.3
				25	12	22.53	26.63	30	-3.37
				50	0	22.53	26.63	30	-3.37
	20000	1715	16QAM	1	0	22.69	26.79	30	-3.21
				1	49	22.67	26.77	30	-3.23
				25	12	21.53	25.63	30	-4.37
				50	0	21.57	25.67	30	-4.33
	20175	1732.5	16QAM	1	0	22.62	26.72	30	-3.28
				1	49	22.68	26.78	30	-3.22
				25	12	21.61	25.71	30	-4.29
				50	0	21.69	25.79	30	-4.21
	20375	1750	16QAM	1	0	22.66	26.76	30	-3.24
				1	49	22.55	26.65	30	-3.35
				25	12	21.60	25.70	30	-4.3
				50	0	21.61	25.71	30	-4.29

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Antenna gain (dBi) 4.1

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.54	27.64	30	-2.36
				1	74	23.54	27.64	30	-2.36
				36	18	22.53	26.63	30	-3.37
				75	0	22.66	26.76	30	-3.24
	20175	1732.5	QPSK	1	0	23.62	27.72	30	-2.28
				1	74	23.56	27.66	30	-2.34
				36	18	22.64	26.74	30	-3.26
				75	0	22.54	26.64	30	-3.36
	20325	1747.5	QPSK	1	0	23.58	27.68	30	-2.32
				1	74	23.53	27.63	30	-2.37
				36	18	22.67	26.77	30	-3.23
				75	0	22.63	26.73	30	-3.27
	20025	1717.5	16QAM	1	0	22.65	26.75	30	-3.25
				1	74	22.66	26.76	30	-3.24
				36	18	21.55	25.65	30	-4.35
				75	0	21.68	25.78	30	-4.22
	20175	1732.5	16QAM	1	0	22.51	26.61	30	-3.39
				1	74	22.56	26.66	30	-3.34
				36	18	21.57	25.67	30	-4.33
				75	0	21.60	25.70	30	-4.3
	20325	1747.5	16QAM	1	0	22.57	26.67	30	-3.33
				1	74	22.53	26.63	30	-3.37
				36	18	21.64	25.74	30	-4.26
				75	0	21.65	25.75	30	-4.25

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Antenna gain (dBi) 4.1

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.66	27.76	30	-2.24
				1	99	23.53	27.63	30	-2.37
				50	25	22.69	26.79	30	-3.21
				100	0	22.56	26.66	30	-3.34
	20175	1732.5	QPSK	1	0	23.69	27.79	30	-2.21
				1	99	23.63	27.73	30	-2.27
				50	25	22.58	26.68	30	-3.32
				100	0	22.60	26.70	30	-3.3
	20300	1745	QPSK	1	0	23.65	27.75	30	-2.25
				1	99	23.57	27.67	30	-2.33
				50	25	22.62	26.72	30	-3.28
				100	0	22.66	26.76	30	-3.24
	20050	1720	16QAM	1	0	22.69	26.79	30	-3.21
				1	99	22.61	26.71	30	-3.29
				50	25	21.64	25.74	30	-4.26
				100	0	21.53	25.63	30	-4.37
	20175	1732.5	16QAM	1	0	22.58	26.68	30	-3.32
				1	99	22.58	26.68	30	-3.32
				50	25	21.60	25.70	30	-4.3
				100	0	21.64	25.74	30	-4.26
	20300	1745	16QAM	1	0	22.62	26.72	30	-3.28
				1	99	22.54	26.64	30	-3.36
				50	25	21.53	25.63	30	-4.37
				100	0	21.51	25.61	30	-4.39

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FDD Band 5

Antenna gain (dBi) 4.1

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.60	25.55	27.70	38.45	-10.75
				1	5	23.59	25.54	27.69	38.45	-10.76
				3	2	23.58	25.53	27.68	38.45	-10.77
				6	0	22.56	24.51	26.66	38.45	-11.79
	20525	836.5	QPSK	1	0	23.55	25.50	27.65	38.45	-10.8
				1	5	23.52	25.47	27.62	38.45	-10.83
				3	2	23.52	25.47	27.62	38.45	-10.83
				6	0	22.55	24.50	26.65	38.45	-11.8
	20643	848.3	QPSK	1	0	23.61	25.56	27.71	38.45	-10.74
				1	5	23.53	25.48	27.63	38.45	-10.82
				3	2	23.56	25.51	27.66	38.45	-10.79
				6	0	22.51	24.46	26.61	38.45	-11.84
	20407	824.7	16QAM	1	0	22.62	24.57	26.72	38.45	-11.73
				1	5	22.70	24.65	26.80	38.45	-11.65
				3	2	22.60	24.55	26.70	38.45	-11.75
				6	0	21.51	23.46	25.61	38.45	-12.84
	20525	836.5	16QAM	1	0	22.66	24.61	26.76	38.45	-11.69
				1	5	22.61	24.56	26.71	38.45	-11.74
				3	2	22.52	24.47	26.62	38.45	-11.83
				6	0	21.58	23.53	25.68	38.45	-12.77
	20643	848.3	16QAM	1	0	22.62	24.57	26.72	38.45	-11.73
				1	5	22.69	24.64	26.79	38.45	-11.66
				3	2	22.68	24.63	26.78	38.45	-11.67
				6	0	21.60	23.55	25.70	38.45	-12.75

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Antenna gain (dBi) 4.1

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.52	25.47	27.62	38.45	-10.83
				1	14	23.58	25.53	27.68	38.45	-10.77
				8	4	22.57	24.52	26.67	38.45	-11.78
				15	0	22.70	24.65	26.80	38.45	-11.65
	20525	836.5	QPSK	1	0	23.60	25.55	27.70	38.45	-10.75
				1	14	23.51	25.46	27.61	38.45	-10.84
				8	4	22.63	24.58	26.73	38.45	-11.72
				15	0	22.67	24.62	26.77	38.45	-11.68
	20635	847.5	QPSK	1	0	23.53	25.48	27.63	38.45	-10.82
				1	14	23.55	25.50	27.65	38.45	-10.8
				8	4	22.54	24.49	26.64	38.45	-11.81
				15	0	22.52	24.47	26.62	38.45	-11.83
	20415	825.5	16QAM	1	0	22.61	24.56	26.71	38.45	-11.74
				1	14	22.58	24.53	26.68	38.45	-11.77
				8	4	21.55	23.50	25.65	38.45	-12.8
				15	0	21.54	23.49	25.64	38.45	-12.81
	20525	836.5	16QAM	1	0	22.52	24.47	26.62	38.45	-11.83
				1	14	22.52	24.47	26.62	38.45	-11.83
				8	4	21.67	23.62	25.77	38.45	-12.68
				15	0	21.54	23.49	25.64	38.45	-12.81
	20635	847.5	16QAM	1	0	22.66	24.61	26.76	38.45	-11.69
				1	14	22.55	24.50	26.65	38.45	-11.8
				8	4	21.68	23.63	25.78	38.45	-12.67
				15	0	21.62	23.57	25.72	38.45	-12.73

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Antenna gain (dBi) 4.1

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.60	25.55	27.70	38.45	-10.75
				1	24	23.58	25.53	27.68	38.45	-10.77
				12	6	22.64	24.59	26.74	38.45	-11.71
				25	0	22.60	24.55	26.70	38.45	-11.75
	20525	836.5	QPSK	1	0	23.64	25.59	27.74	38.45	-10.71
				1	24	23.52	25.47	27.62	38.45	-10.83
				12	6	22.55	24.50	26.65	38.45	-11.8
				25	0	22.65	24.60	26.75	38.45	-11.7
	20625	846.5	QPSK	1	0	23.61	25.56	27.71	38.45	-10.74
				1	24	23.61	25.56	27.71	38.45	-10.74
				12	6	22.59	24.54	26.69	38.45	-11.76
				25	0	22.64	24.59	26.74	38.45	-11.71
	20425	826.5	16QAM	1	0	22.57	24.52	26.67	38.45	-11.78
				1	24	22.57	24.52	26.67	38.45	-11.78
				12	6	21.64	23.59	25.74	38.45	-12.71
				25	0	21.68	23.63	25.78	38.45	-12.67
	20525	836.5	16QAM	1	0	22.60	24.55	26.70	38.45	-11.75
				1	24	22.58	24.53	26.68	38.45	-11.77
				12	6	21.51	23.46	25.61	38.45	-12.84
				25	0	21.56	23.51	25.66	38.45	-12.79
	20625	846.5	16QAM	1	0	22.60	24.55	26.70	38.45	-11.75
				1	24	22.58	24.53	26.68	38.45	-11.77
				12	6	21.67	23.62	25.77	38.45	-12.68
				25	0	21.63	23.58	25.73	38.45	-12.72

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Antenna gain (dBi) 4.1

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.70	25.65	27.80	38.45	-10.65
				1	49	23.53	25.48	27.63	38.45	-10.82
				25	12	22.61	24.56	26.71	38.45	-11.74
				50	0	22.69	24.64	26.79	38.45	-11.66
	20525	836.5	QPSK	1	0	23.68	25.63	27.78	38.45	-10.67
				1	49	23.56	25.51	27.66	38.45	-10.79
				25	12	22.62	24.57	26.72	38.45	-11.73
				50	0	22.62	24.57	26.72	38.45	-11.73
	20600	844	QPSK	1	0	23.66	25.61	27.76	38.45	-10.69
				1	49	23.62	25.57	27.72	38.45	-10.73
				25	12	22.62	24.57	26.72	38.45	-11.73
				50	0	22.55	24.50	26.65	38.45	-11.8
	20450	829	16QAM	1	0	22.56	24.51	26.66	38.45	-11.79
				1	49	22.68	24.63	26.78	38.45	-11.67
				25	12	21.58	23.53	25.68	38.45	-12.77
				50	0	21.66	23.61	25.76	38.45	-12.69
	20525	836.5	16QAM	1	0	22.60	24.55	26.70	38.45	-11.75
				1	49	22.58	24.53	26.68	38.45	-11.77
				25	12	21.70	23.65	25.80	38.45	-12.65
				50	0	21.52	23.47	25.62	38.45	-12.83
	20600	844	16QAM	1	0	22.57	24.52	26.67	38.45	-11.78
				1	49	22.66	24.61	26.76	38.45	-11.69
				25	12	21.54	23.49	25.64	38.45	-12.81
				50	0	21.52	23.47	25.62	38.45	-12.83

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FDD Band 12

Antenna gain (dBi) 4.1

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	23.61	25.56	27.71	34.77	-7.06
				1	5	23.51	25.46	27.61	34.77	-7.16
				3	2	22.60	24.55	26.70	34.77	-8.07
				6	0	22.61	24.56	26.71	34.77	-8.06
	23095	707.5	QPSK	1	0	23.62	25.57	27.72	34.77	-7.05
				1	5	23.61	25.56	27.71	34.77	-7.06
				3	2	22.60	24.55	26.70	34.77	-8.07
				6	0	22.63	24.58	26.73	34.77	-8.04
	23173	715.5	QPSK	1	0	23.58	25.53	27.68	34.77	-7.09
				1	5	23.55	25.50	27.65	34.77	-7.12
				3	2	22.67	24.62	26.77	34.77	-8
				6	0	22.59	24.54	26.69	34.77	-8.08
	23017	699.7	16QAM	1	0	22.55	24.50	26.65	34.77	-8.12
				1	5	22.57	24.52	26.67	34.77	-8.1
				3	2	22.53	24.48	26.63	34.77	-8.14
				6	0	21.63	23.58	25.73	34.77	-9.04
	23095	707.5	16QAM	1	0	22.66	24.61	26.76	34.77	-8.01
				1	5	22.57	24.52	26.67	34.77	-8.1
				3	2	22.41	24.36	26.51	34.77	-8.26
				6	0	21.51	23.46	25.61	34.77	-9.16
	23173	715.5	16QAM	1	0	22.65	24.60	26.75	34.77	-8.02
				1	5	22.59	24.54	26.69	34.77	-8.08
				3	2	22.55	24.50	26.65	34.77	-8.12
				6	0	21.70	23.65	25.80	34.77	-8.97

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Antenna gain (dBi) 4.1

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	23.58	25.53	27.68	34.77	-7.09
				1	14	23.56	25.51	27.66	34.77	-7.11
				8	4	22.70	24.65	26.80	34.77	-7.97
				15	0	22.51	24.46	26.61	34.77	-8.16
	23095	707.5	QPSK	1	0	23.56	25.51	27.66	34.77	-7.11
				1	14	23.52	25.47	27.62	34.77	-7.15
				8	4	22.69	24.64	26.79	34.77	-7.98
				15	0	22.59	24.54	26.69	34.77	-8.08
	23165	714.5	QPSK	1	0	23.61	25.56	27.71	34.77	-7.06
				1	14	23.53	25.48	27.63	34.77	-7.14
				8	4	22.69	24.64	26.79	34.77	-7.98
				15	0	22.61	24.56	26.71	34.77	-8.06
	23025	700.5	16QAM	1	0	22.58	24.53	26.68	34.77	-8.09
				1	14	22.58	24.53	26.68	34.77	-8.09
				8	4	21.54	23.49	25.64	34.77	-9.13
				15	0	21.53	23.48	25.63	34.77	-9.14
	23095	707.5	16QAM	1	0	22.63	24.58	26.73	34.77	-8.04
				1	14	22.55	24.50	26.65	34.77	-8.12
				8	4	21.61	23.56	25.71	34.77	-9.06
				15	0	21.59	23.54	25.69	34.77	-9.08
	23165	714.5	16QAM	1	0	22.67	24.62	26.77	34.77	-8
				1	14	22.59	24.54	26.69	34.77	-8.08
				8	4	21.63	23.58	25.73	34.77	-9.04
				15	0	21.69	23.64	25.79	34.77	-8.98

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Antenna gain (dBi) 4.1

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	23.62	25.57	27.72	34.77	-7.05
				1	24	23.58	25.53	27.68	34.77	-7.09
				12	6	22.68	24.63	26.78	34.77	-7.99
				25	0	22.62	24.57	26.72	34.77	-8.05
	23095	707.5	QPSK	1	0	23.61	25.56	27.71	34.77	-7.06
				1	24	23.56	25.51	27.66	34.77	-7.11
				12	6	22.53	24.48	26.63	34.77	-8.14
				25	0	22.58	24.53	26.68	34.77	-8.09
	23155	713.5	QPSK	1	0	23.64	25.59	27.74	34.77	-7.03
				1	24	23.57	25.52	27.67	34.77	-7.1
				12	6	22.59	24.54	26.69	34.77	-8.08
				25	0	22.57	24.52	26.67	34.77	-8.1
	23035	701.5	16QAM	1	0	22.62	24.57	26.72	34.77	-8.05
				1	24	22.56	24.51	26.66	34.77	-8.11
				12	6	21.58	23.53	25.68	34.77	-9.09
				25	0	21.53	23.48	25.63	34.77	-9.14
	23095	707.5	16QAM	1	0	22.59	24.54	26.69	34.77	-8.08
				1	24	22.51	24.46	26.61	34.77	-8.16
				12	6	21.67	23.62	25.77	34.77	-9
				25	0	21.54	23.49	25.64	34.77	-9.13
	23155	713.5	16QAM	1	0	22.59	24.54	26.69	34.77	-8.08
				1	24	22.55	24.50	26.65	34.77	-8.12
				12	6	21.57	23.52	25.67	34.77	-9.1
				25	0	21.67	23.62	25.77	34.77	-9

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Antenna gain (dBi) 4.1

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.66	25.61	27.76	34.77	-7.01
				1	49	23.58	25.53	27.68	34.77	-7.09
				25	12	22.65	24.60	26.75	34.77	-8.02
				50	0	22.54	24.49	26.64	34.77	-8.13
	23095	707.5	QPSK	1	0	23.68	25.63	27.78	34.77	-6.99
				1	49	23.57	25.52	27.67	34.77	-7.1
				25	12	22.68	24.63	26.78	34.77	-7.99
				50	0	22.53	24.48	26.63	34.77	-8.14
	23130	711	QPSK	1	0	23.70	25.65	27.80	34.77	-6.97
				1	49	23.54	25.49	27.64	34.77	-7.13
				25	12	22.69	24.64	26.79	34.77	-7.98
				50	0	22.61	24.56	26.71	34.77	-8.06
	23060	704	16QAM	1	0	22.59	24.54	26.69	34.77	-8.08
				1	49	22.65	24.60	26.75	34.77	-8.02
				25	12	21.61	23.56	25.71	34.77	-9.06
				50	0	21.66	23.61	25.76	34.77	-9.01
	23095	707.5	16QAM	1	0	22.64	24.59	26.74	34.77	-8.03
				1	49	22.68	24.63	26.78	34.77	-7.99
				25	12	21.62	23.57	25.72	34.77	-9.05
				50	0	21.70	23.65	25.80	34.77	-8.97
	23130	711	16QAM	1	0	22.59	24.54	26.69	34.77	-8.08
				1	49	22.58	24.53	26.68	34.77	-8.09
				25	12	21.60	23.55	25.70	34.77	-9.07
				50	0	21.58	23.53	25.68	34.77	-9.09

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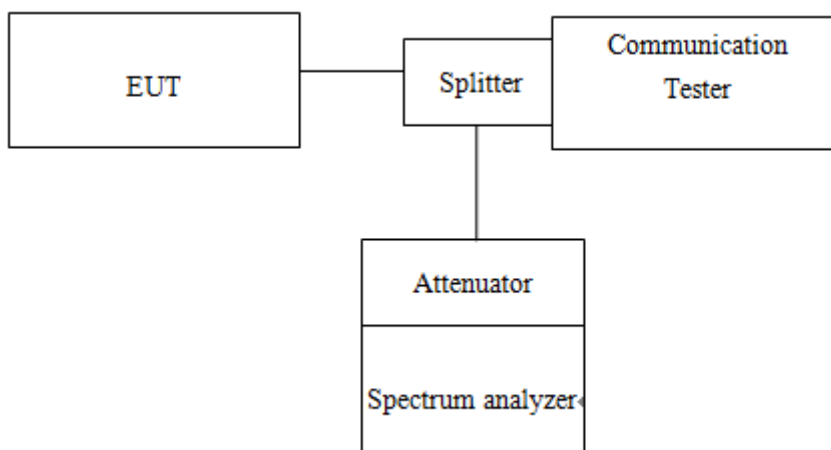
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7. OCCUPIED BANDWIDTH MEASUREMENT

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%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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7.4. Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUM-BER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY57120290	02/13/2019	02/12/2020
Radio Communication Analyser	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
DC Power Supply	Agilent	E3640A	MY52410006	12/04/2018	12/03/2019
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2019	01/01/2020
Coaxial Cables	N/A	WK CE Cable	N/A	01/02/2019	01/01/2020

7.5. Measurement Result

LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0977	1.1017	1.341	1.334
1880.0	18900	1.0975	1.0998	1.326	1.353
1909.3	19193	1.1027	1.1074	1.319	1.349

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.7025	2.7030	2.960	3.019
1880.0	18900	2.6964	2.6993	2.995	3.023
1908.5	19185	2.7032	2.7084	3.022	3.034

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.5072	4.4994	5.041	4.922
1880.0	18900	4.5028	4.5033	5.081	5.004
1907.5	19175	4.4957	4.4857	5.072	4.990

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	8.9985	8.9985	10.208	10.004
1880.0	18900	9.0293	8.9841	10.230	10.107
1905.0	19150	9.0053	8.9864	10.104	10.090

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.490	13.486	15.734	15.517
1880.0	18900	13.511	13.536	15.601	15.667
1902.5	19125	13.459	13.439	15.383	15.279

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.907	17.951	20.119	20.148
1880.0	18900	18.047	18.005	20.679	20.592
1900.0	19100	17.885	17.934	20.002	20.141

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LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.1036	1.1042	1.294	1.353
1732.5	20175	1.1051	1.1067	1.312	1.387
1754.3	20393	1.0997	1.1010	1.345	1.405

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.7010	2.7074	3.004	2.993
1732.5	20175	2.7052	2.7010	2.982	3.020
1753.5	20385	2.6961	2.7062	3.020	3.019

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.4960	4.4920	5.069	5.039
1732.5	20175	4.4921	4.5041	5.039	5.010
1752.5	20375	4.4967	4.4957	5.009	4.964

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	8.9901	8.9658	10.051	10.125
1732.5	20175	9.0098	8.9854	10.161	10.160
1750.0	20350	8.9897	8.9742	10.103	10.207

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.528	13.497	15.677	15.418
1732.5	20175	13.533	13.549	15.739	15.756
1747.5	20325	13.453	13.464	15.045	15.805

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.940	17.958	20.462	20.450
1732.5	20175	18.006	18.019	20.632	20.441
1745.0	20300	17.870	17.895	20.137	20.138

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.1016	1.1029	1.316	1.353
836.5	20525	1.1006	1.0997	1.334	1.312
848.3	20643	1.1013	1.1023	1.331	1.329

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.7071	2.7152	3.010	3.009
836.5	20525	2.6993	2.7079	2.973	3.017
847.5	20635	2.7014	2.7032	2.994	2.996

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5051	4.5048	5.071	4.932
836.5	20525	4.5107	4.4997	5.016	5.038
846.5	20625	4.4861	4.5044	5.024	5.005

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	9.0092	8.9941	10.239	10.077
836.5	20525	9.0248	9.0019	10.230	10.119
844.0	20600	9.0112	8.9863	10.096	10.061

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LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.1001	1.0995	1.308	1.336
707.5	23095	1.1021	1.1020	1.332	1.349
715.3	23173	1.0980	1.1027	1.314	1.330

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.7047	2.7110	2.989	3.022
707.5	23095	2.7005	2.7087	3.009	3.019
714.5	23165	2.6997	2.6988	2.975	2.968

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5063	4.4996	5.054	4.994
707.5	23095	4.5028	4.4947	5.051	5.041
713.5	23155	4.4935	4.4901	5.017	5.042

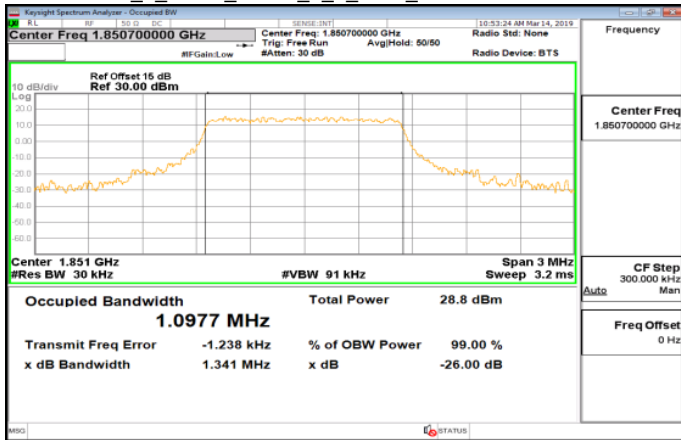
LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	8.9625	8.9671	10.211	10.149
707.5	23095	9.0186	8.9908	10.111	10.101
711.0	23130	9.0085	8.9907	9.970	10.094

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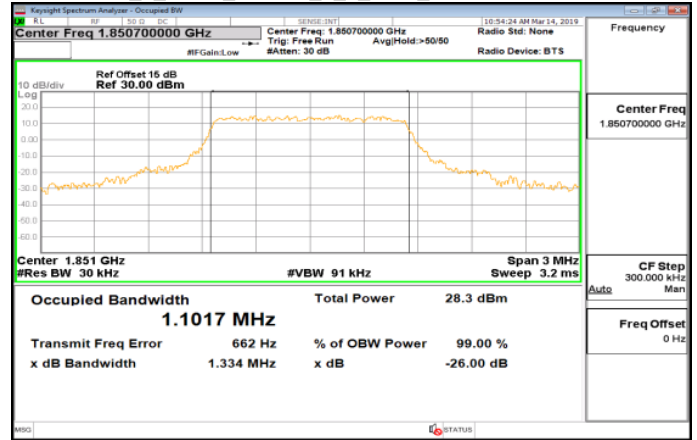
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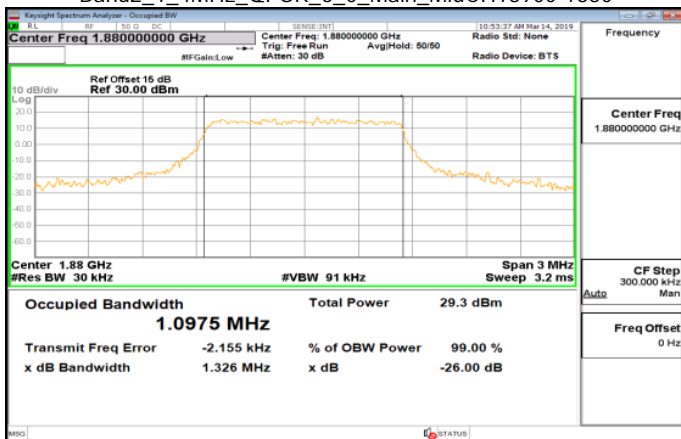
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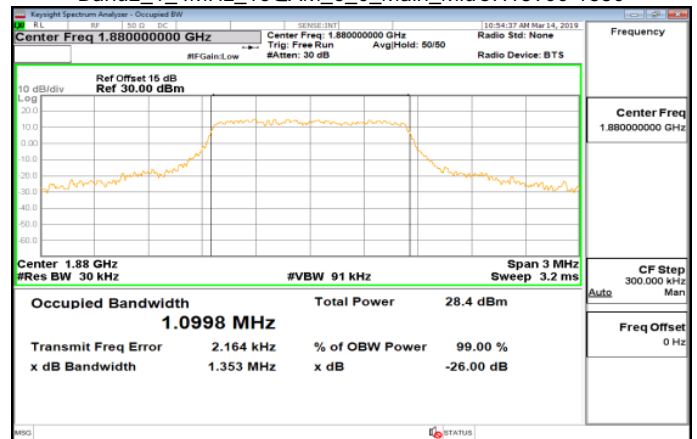
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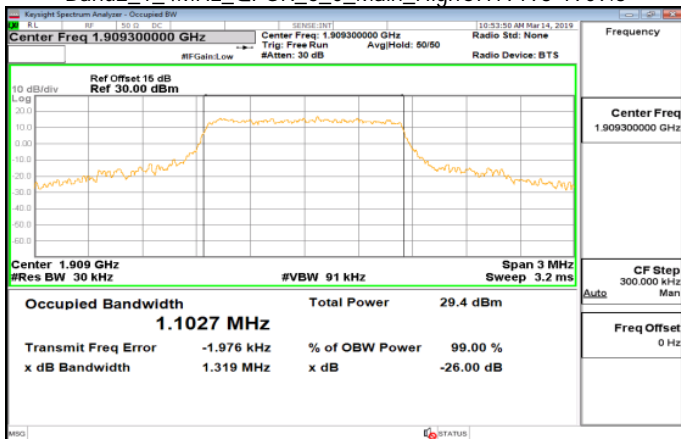
Band2_1_4MHz_QPSK_6_0_Main_MidCH18900-1880



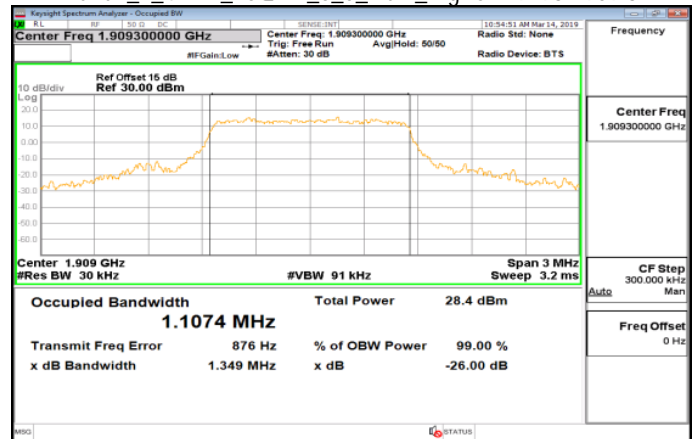
Band2_1_4MHz_16QAM_6_0_Main_MidCH18900-1880



Band2_1_4MHz_QPSK_6_0_Main_HighCH19193-1909.3



Band2_1_4MHz_16QAM_6_0_Main_HighCH19193-1909.3

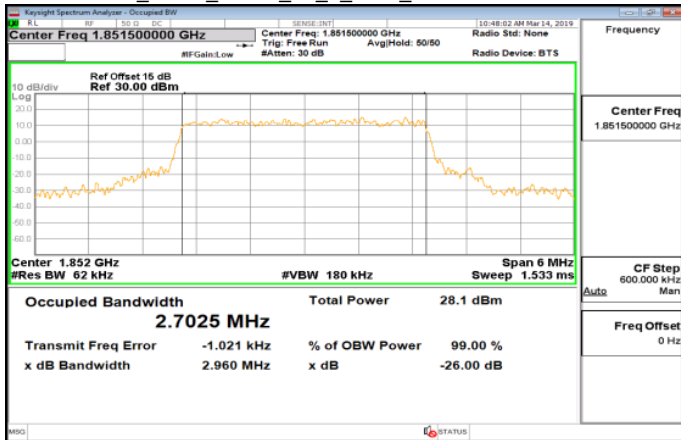


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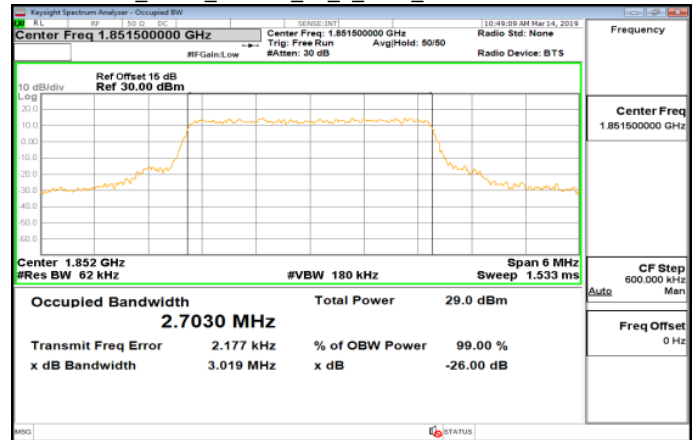
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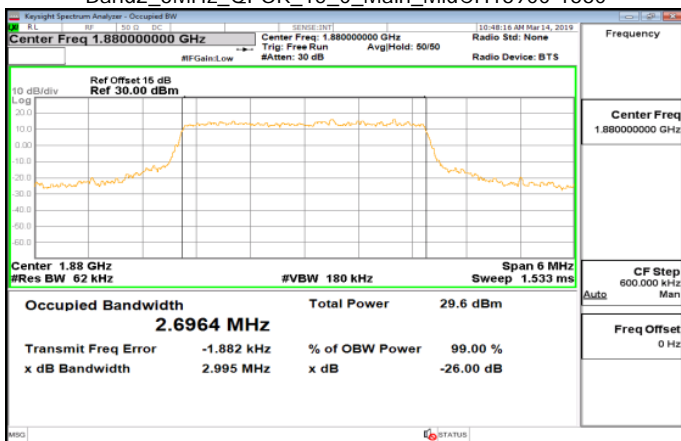
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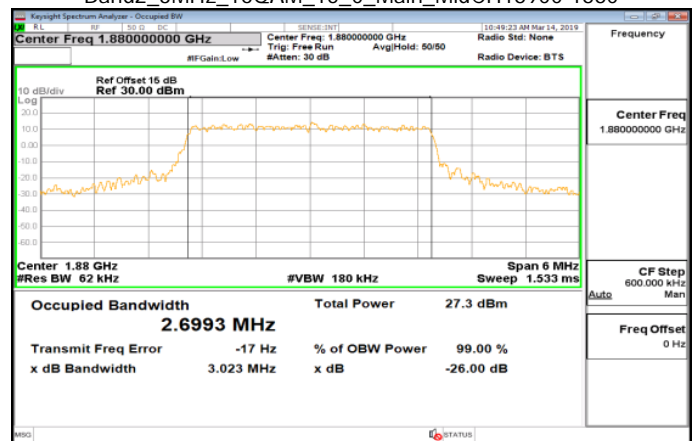
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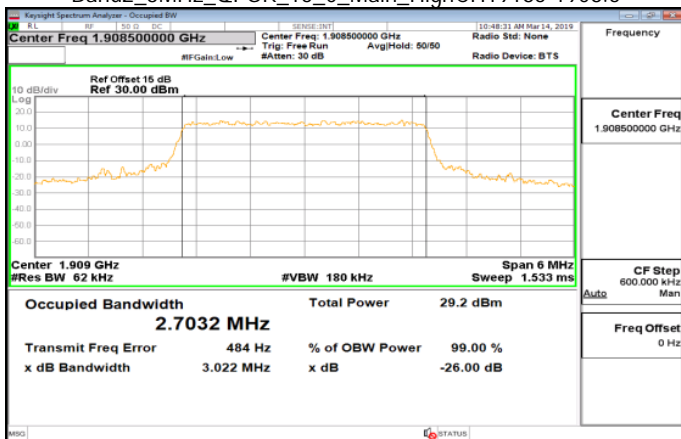
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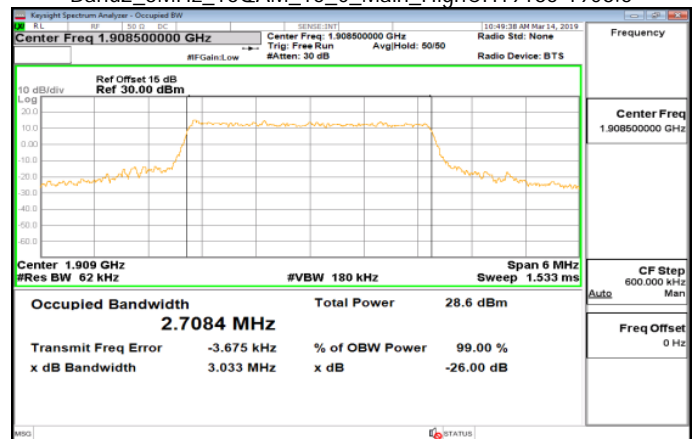
Band2_3MHz_16QAM_15_0_Main_MidCH18900-1880



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Band2_3MHz_16QAM_15_0_Main_HighCH19185-1908.5

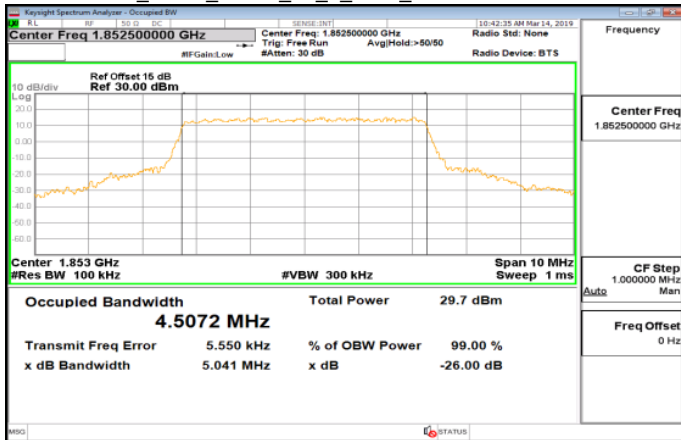


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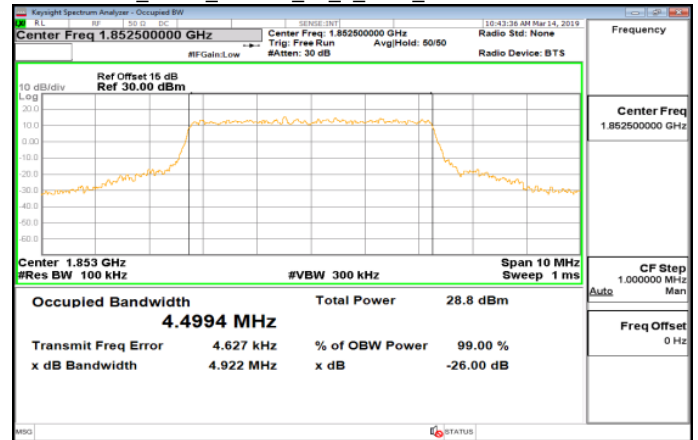
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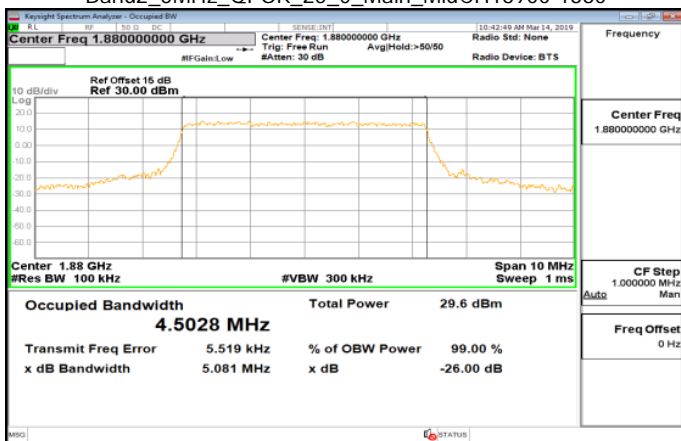
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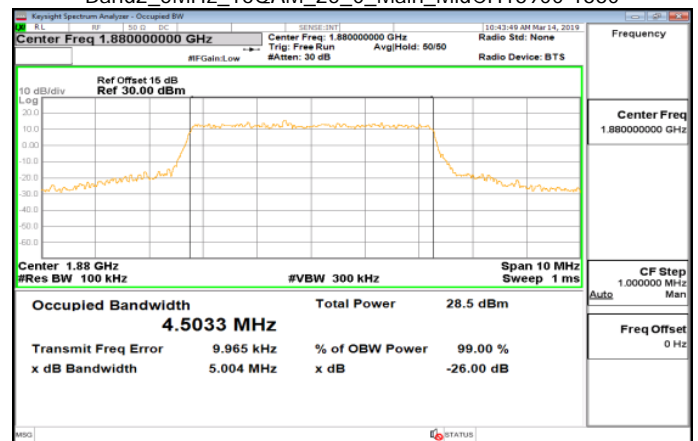
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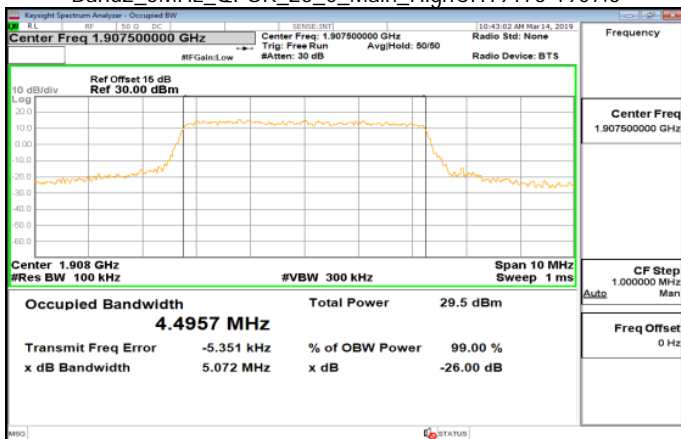
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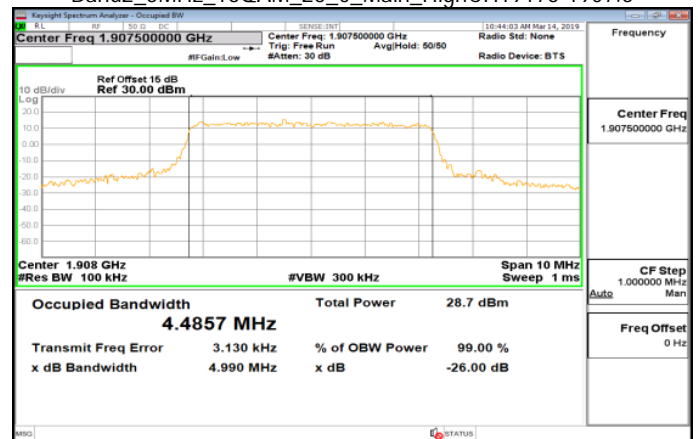
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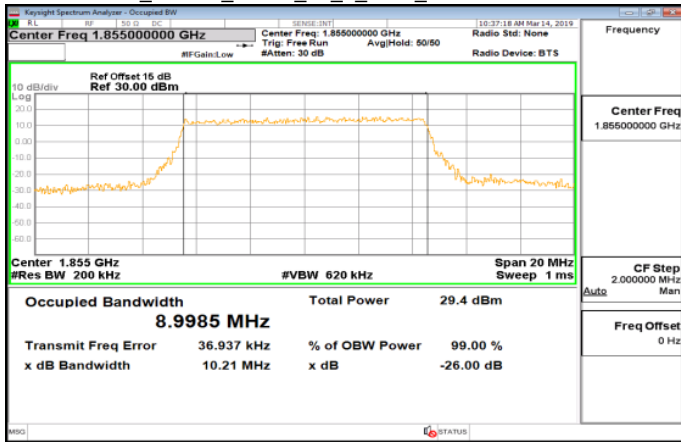


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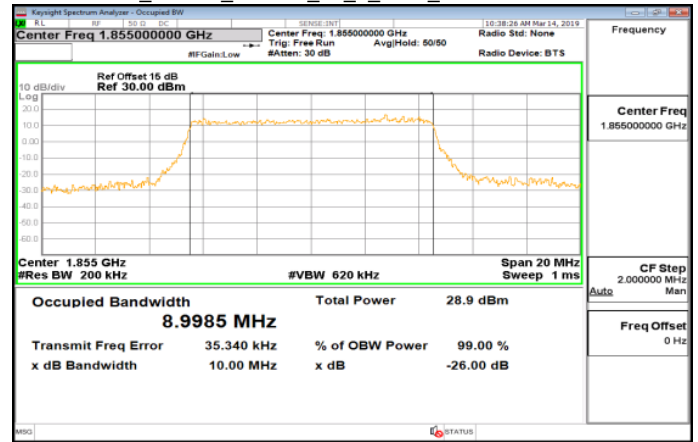
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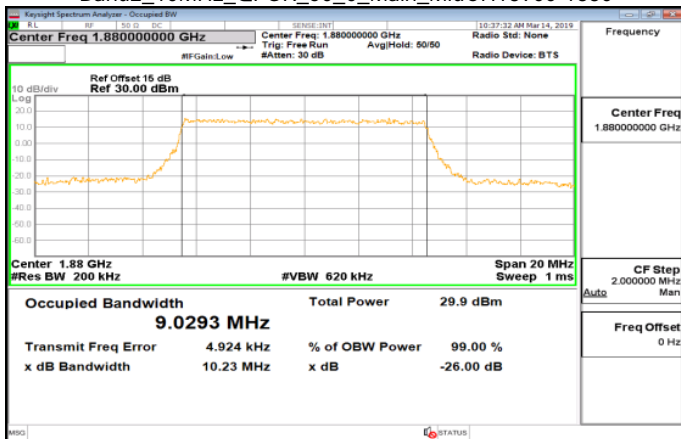
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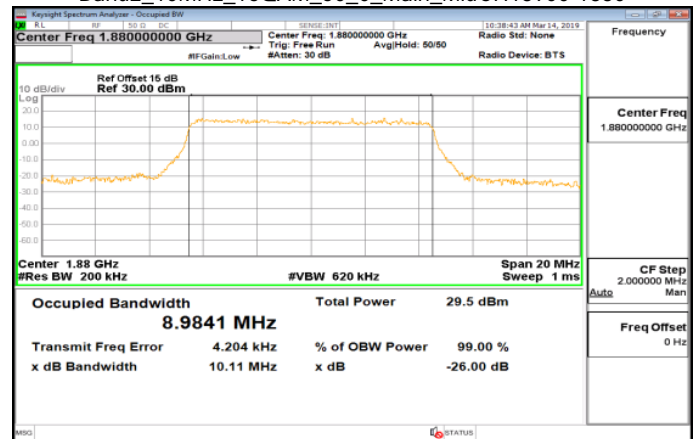
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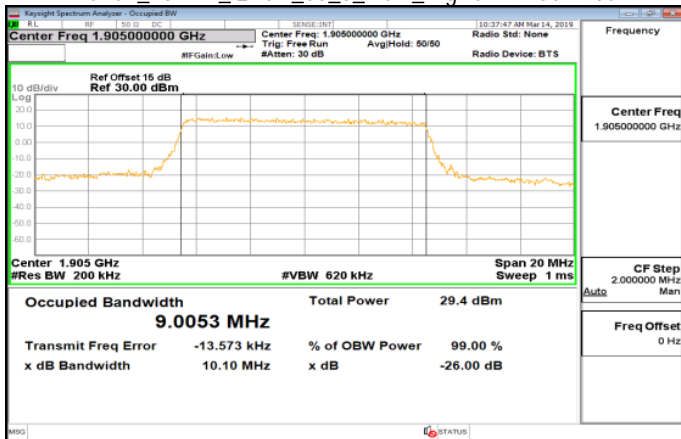
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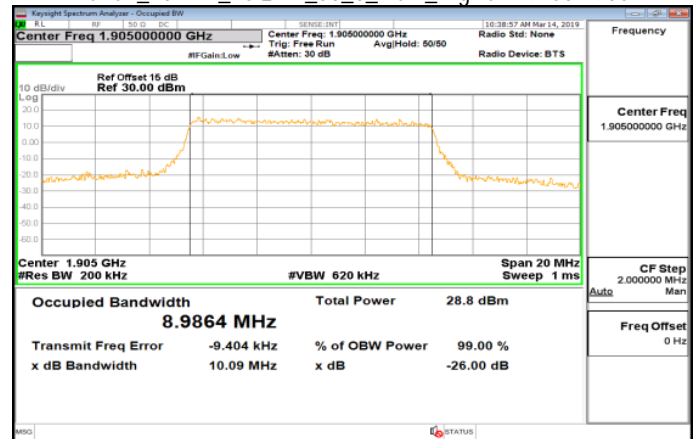
Band2_10MHz_16QAM_50_0_Main_MidCH18900-1880



Band2_10MHz_QPSK_50_0_Main_HighCH19150-1905



Band2_10MHz_16QAM_50_0_Main_HighCH19150-1905

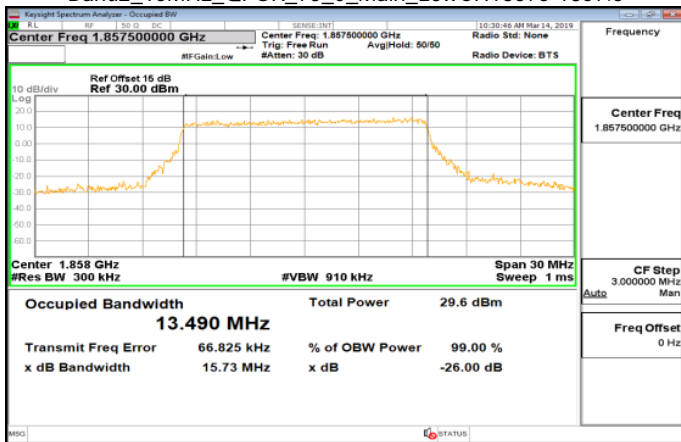


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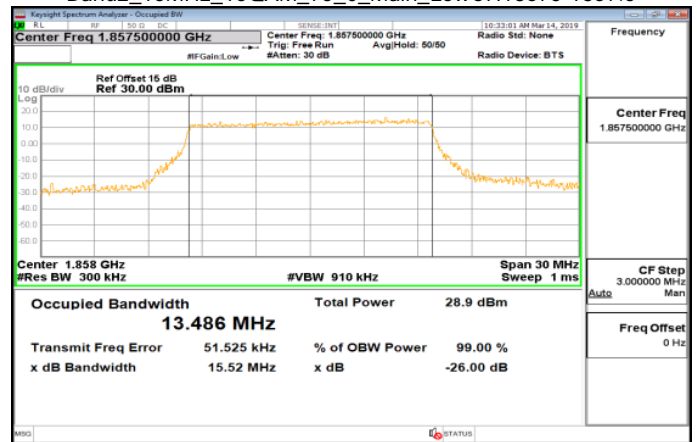
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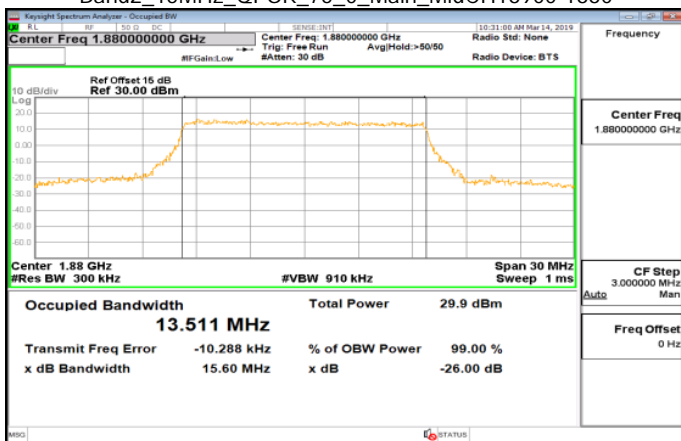
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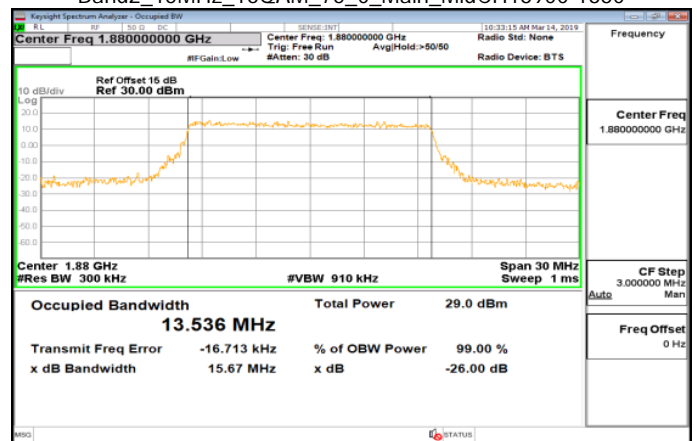
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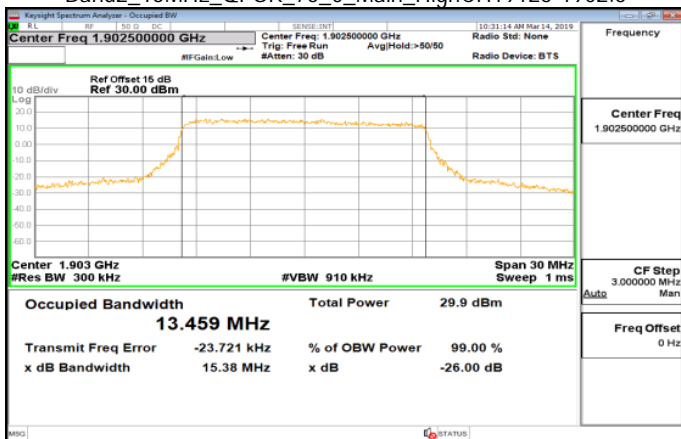
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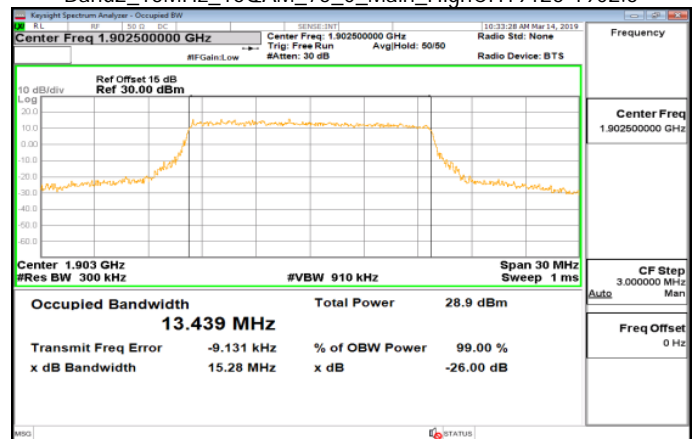
Band2_15MHz_16QAM_75_0_Main_MidCH18900-1880



Band2_15MHz_QPSK_75_0_Main_HighCH19125-1902.5



Band2_15MHz_16QAM_75_0_Main_HighCH19125-1902.5

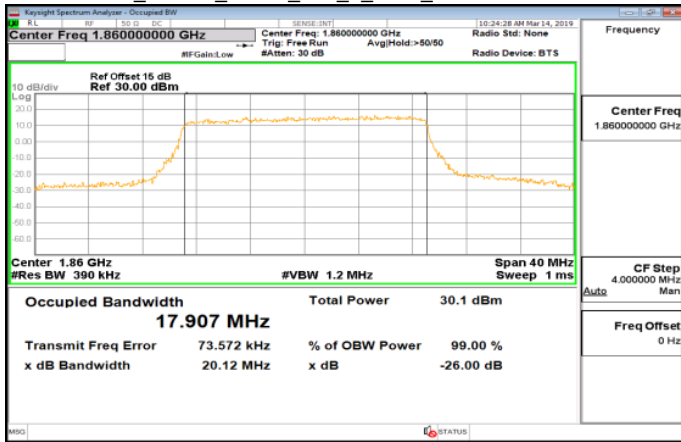


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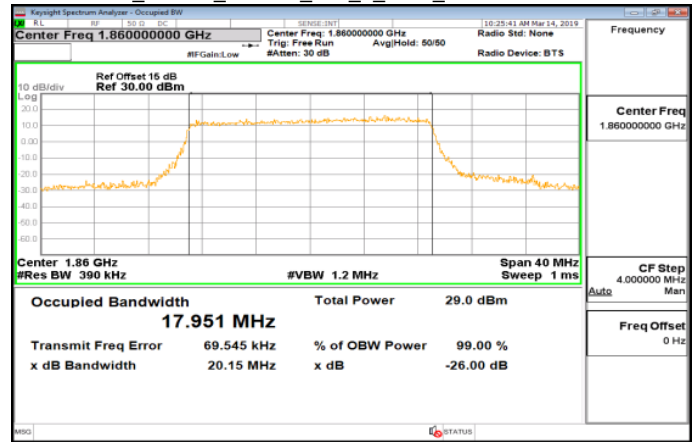
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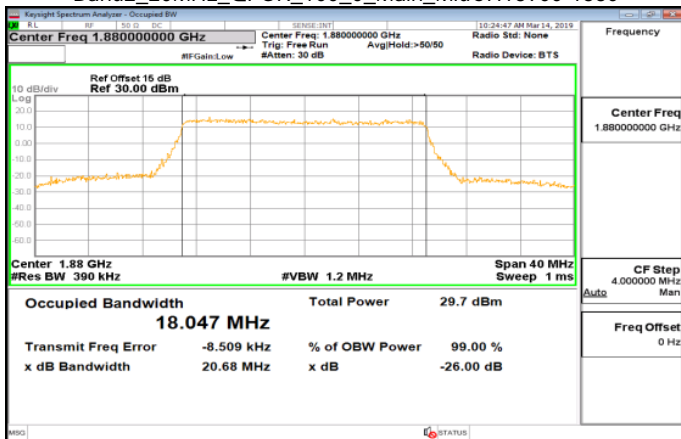
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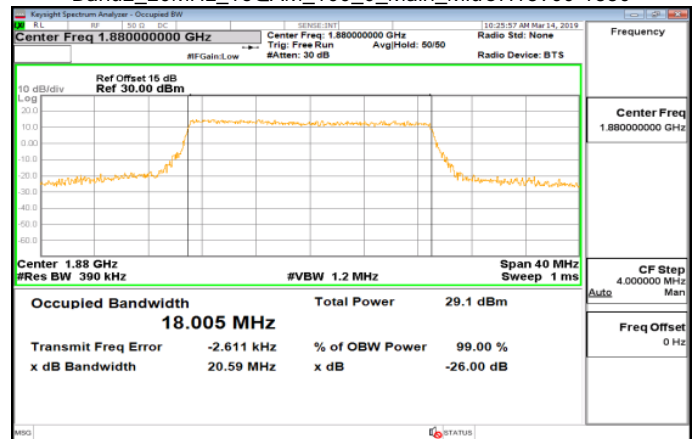
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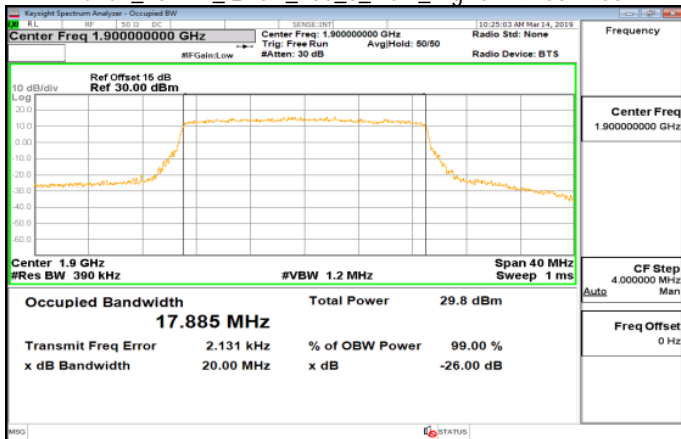
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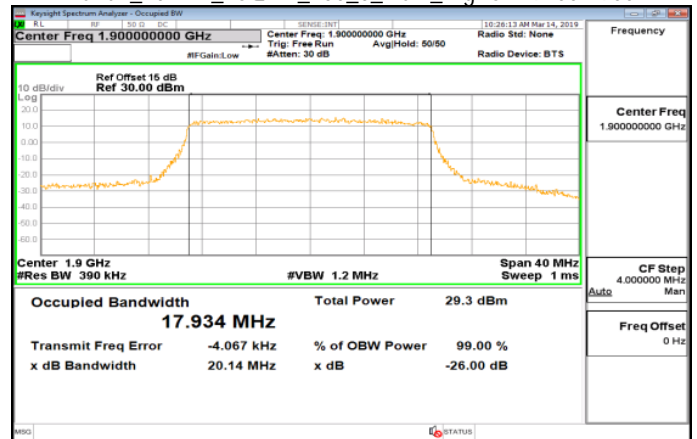
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Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900



Band2_20MHz_16QAM_100_0_Main_HighCH19100-1900

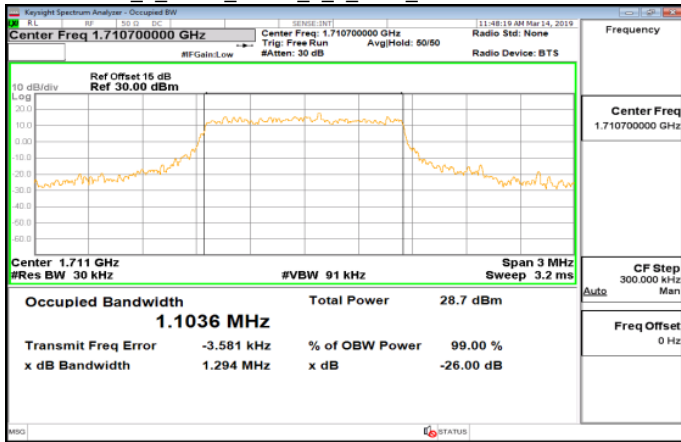


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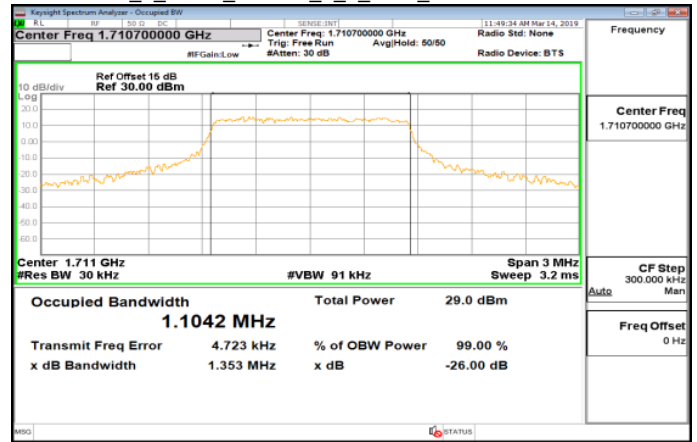
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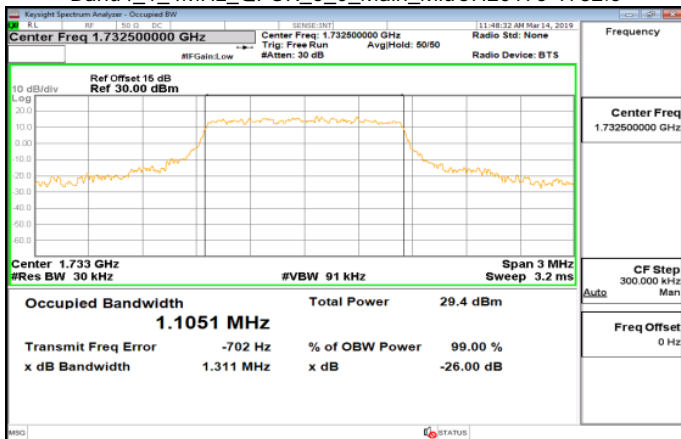
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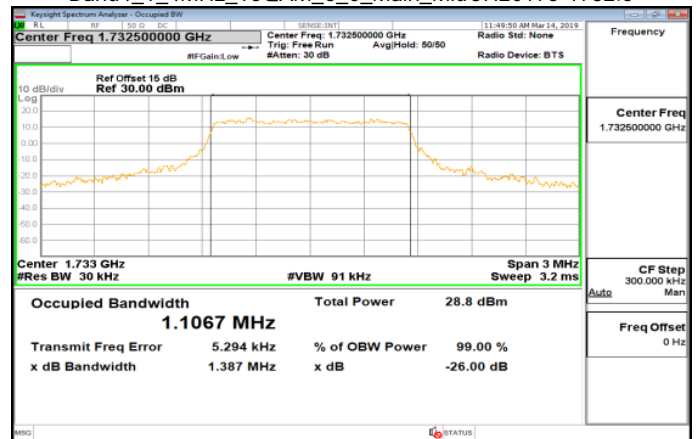
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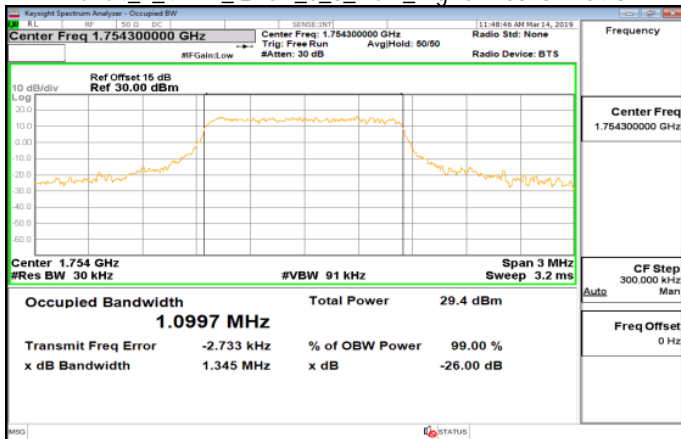
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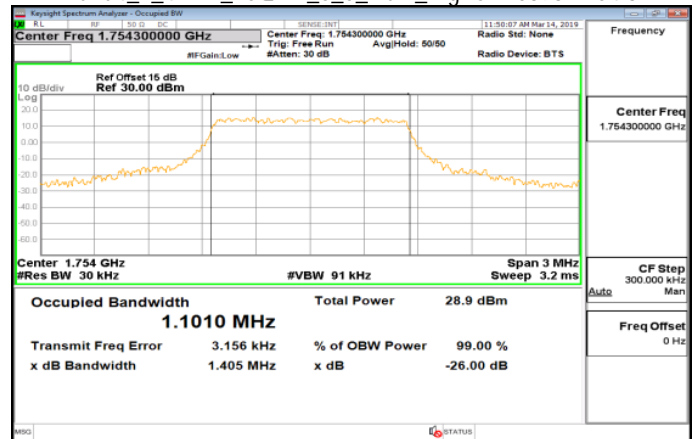
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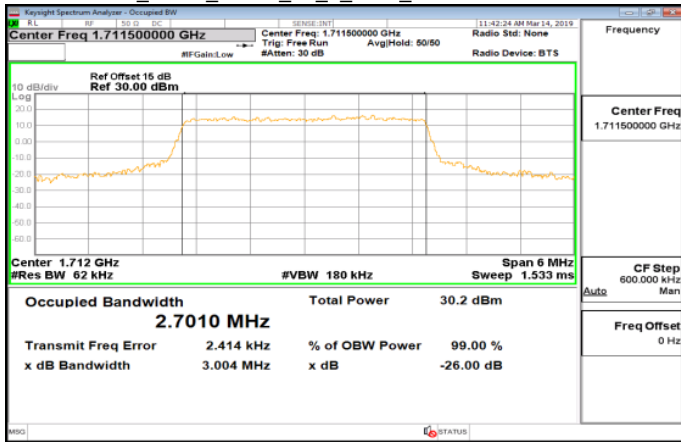


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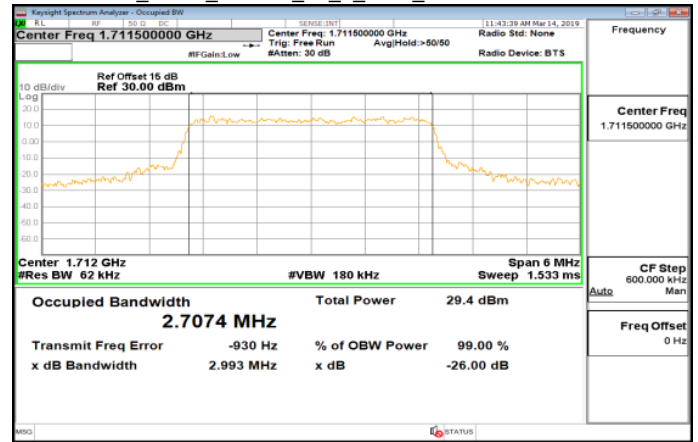
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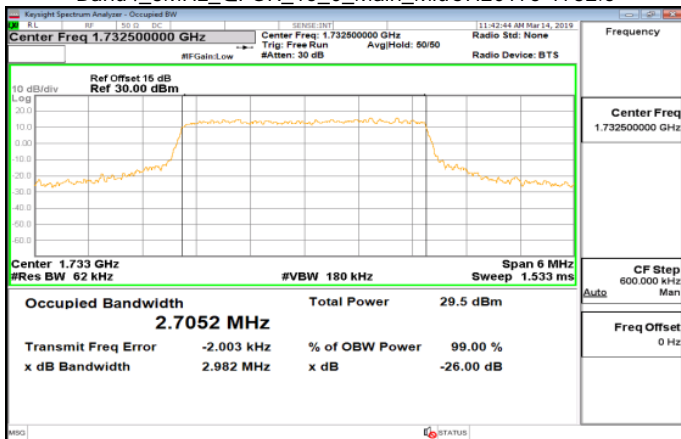
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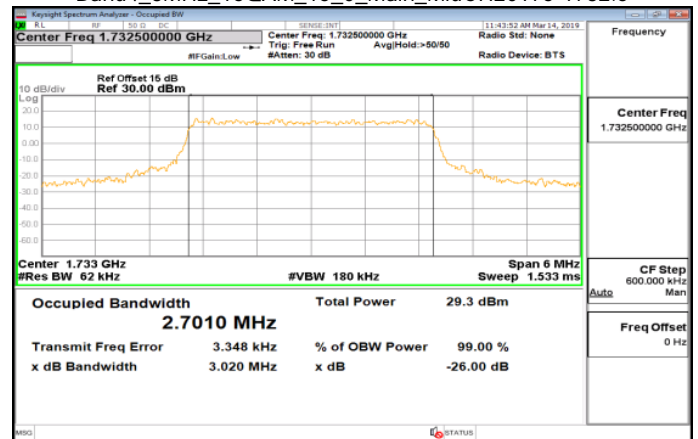
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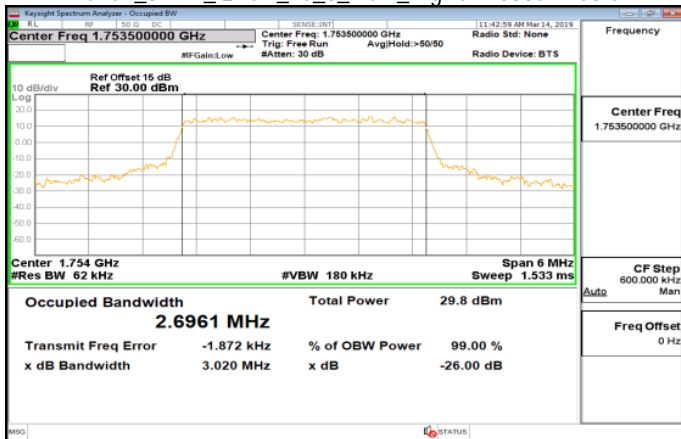
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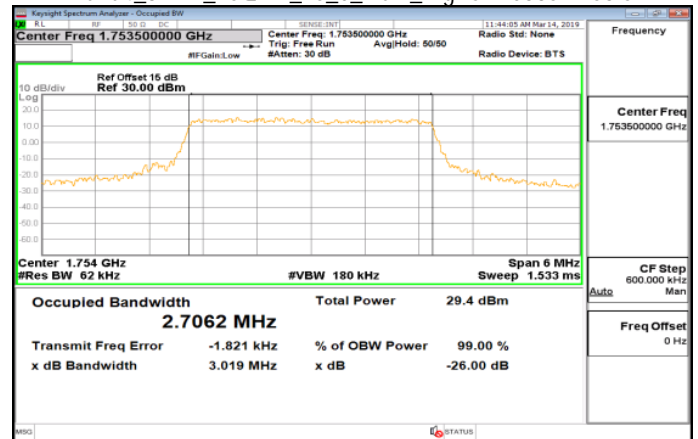
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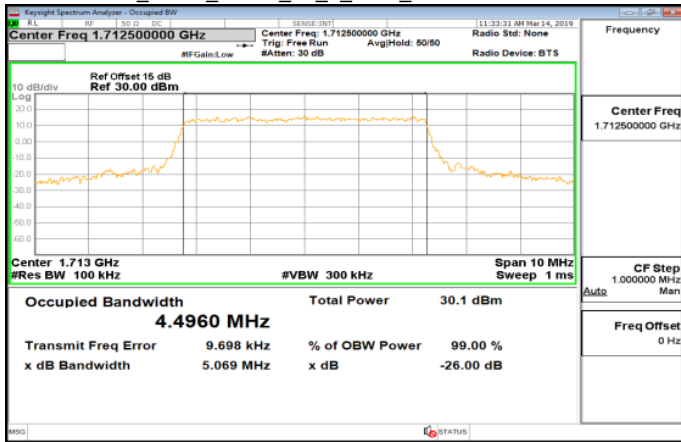


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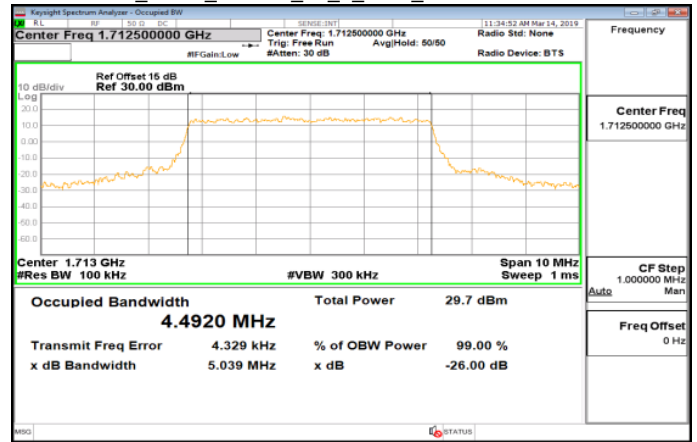
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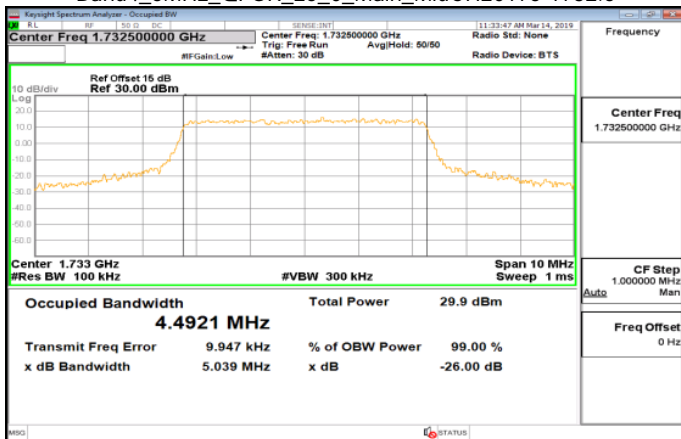
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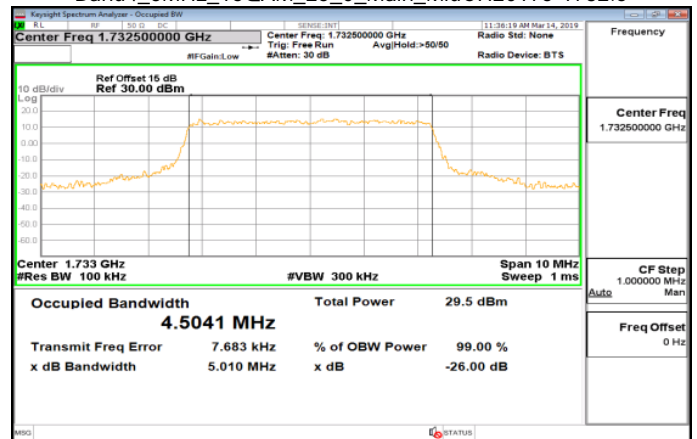
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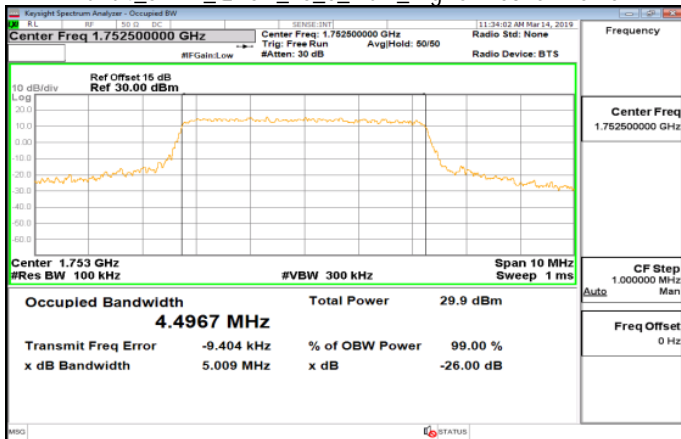
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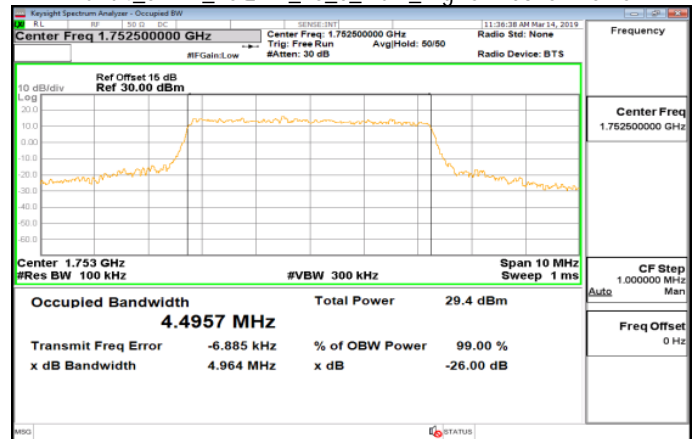
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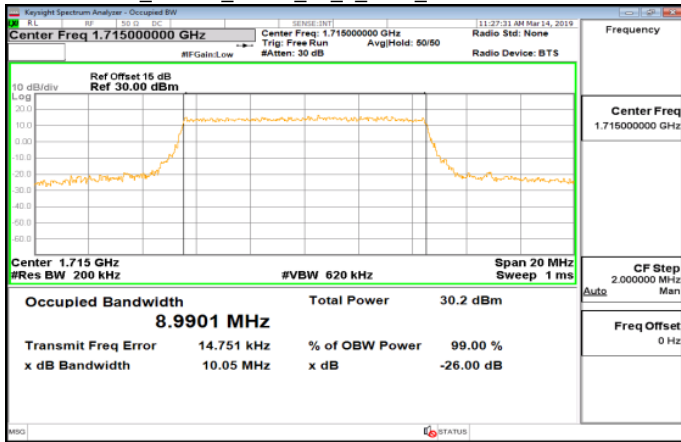


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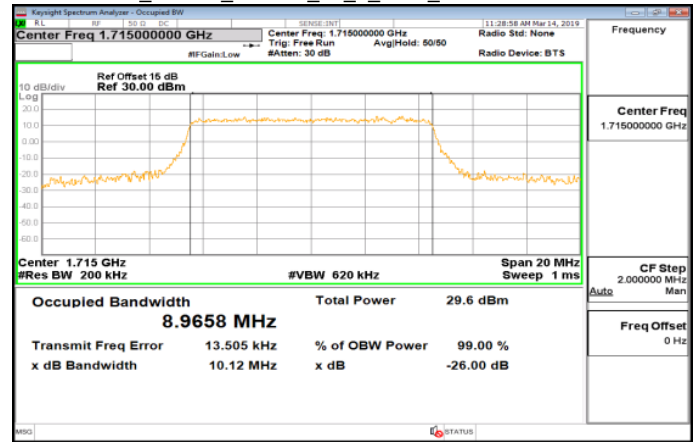
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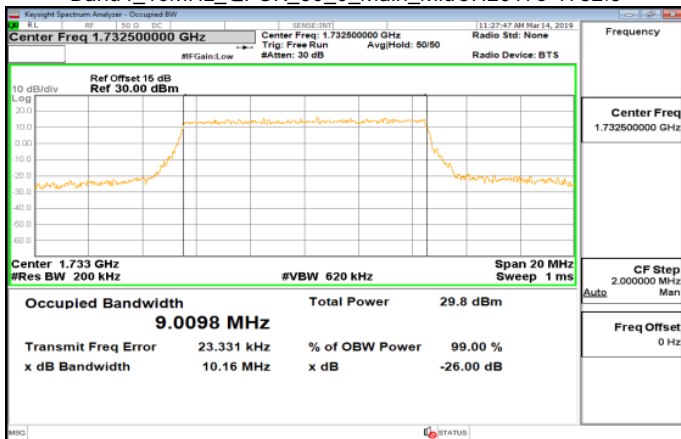
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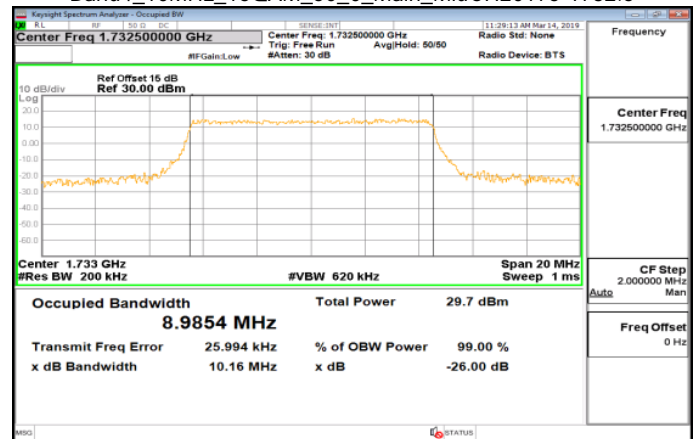
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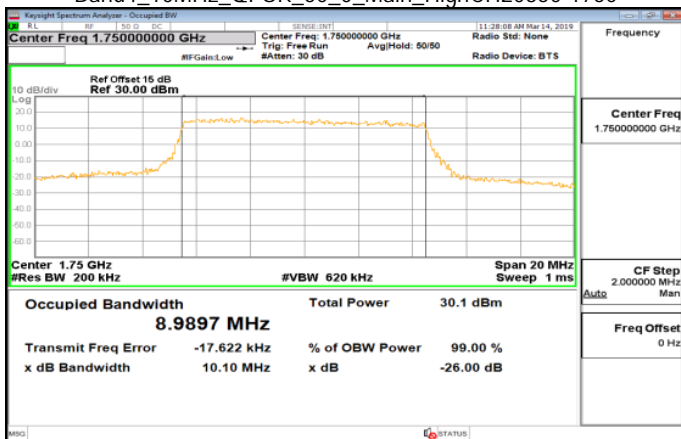
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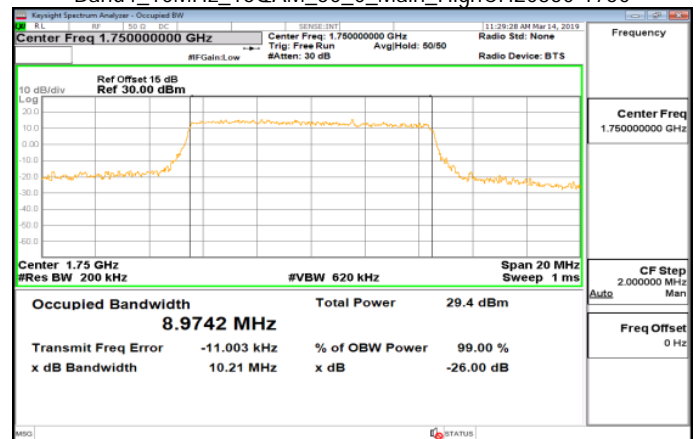
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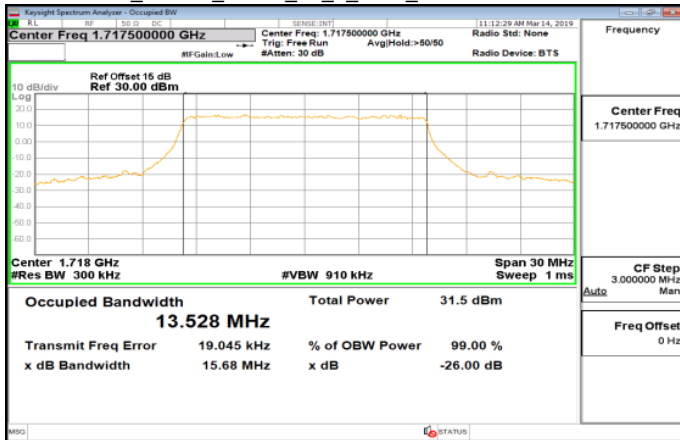


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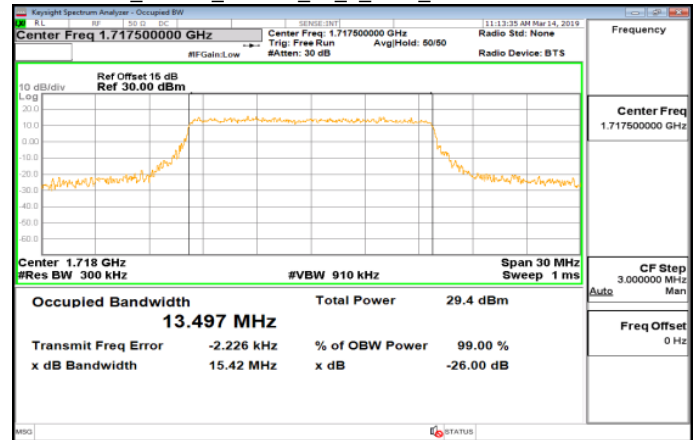
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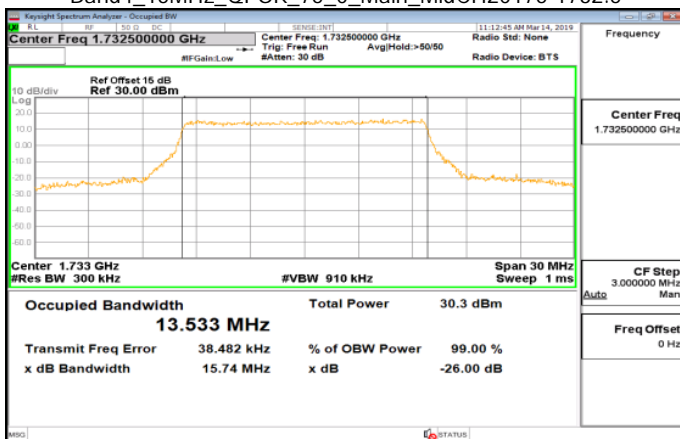
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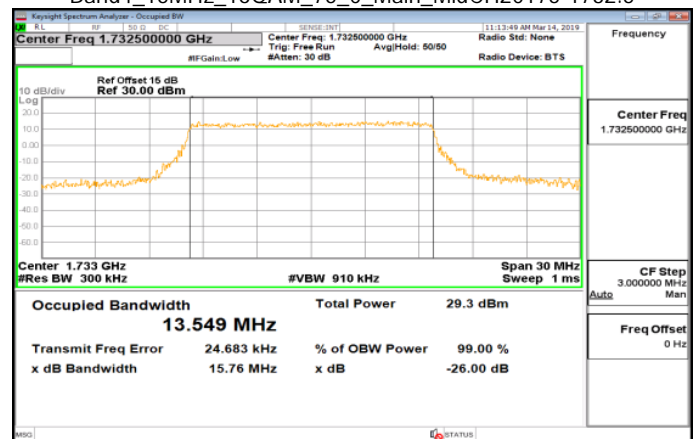
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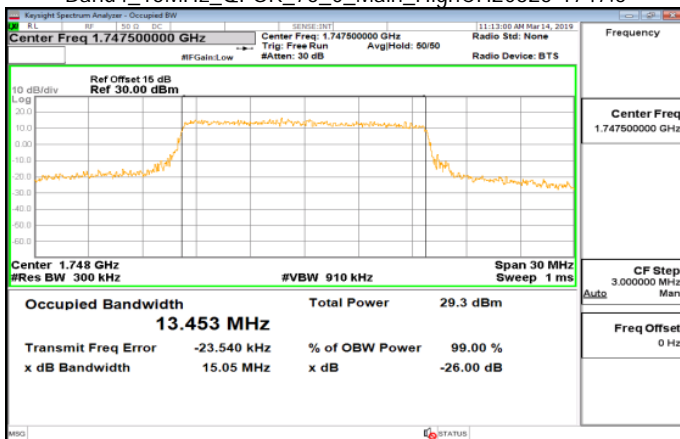
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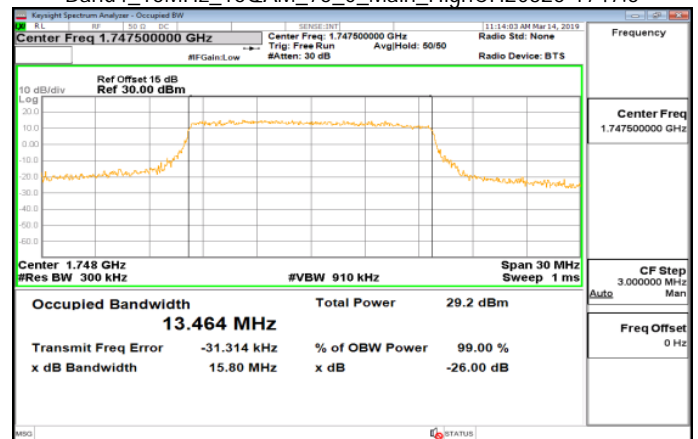
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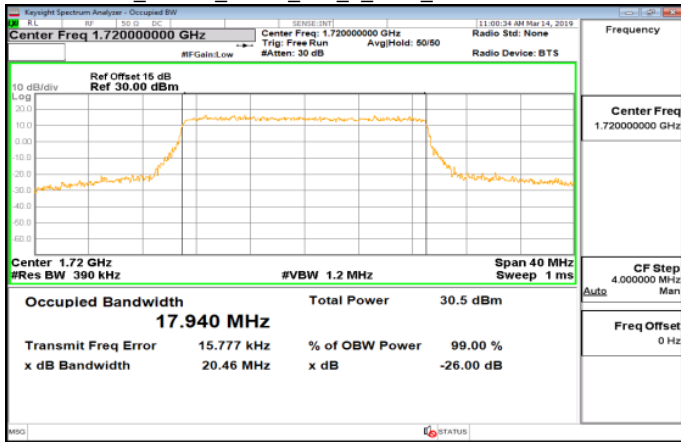


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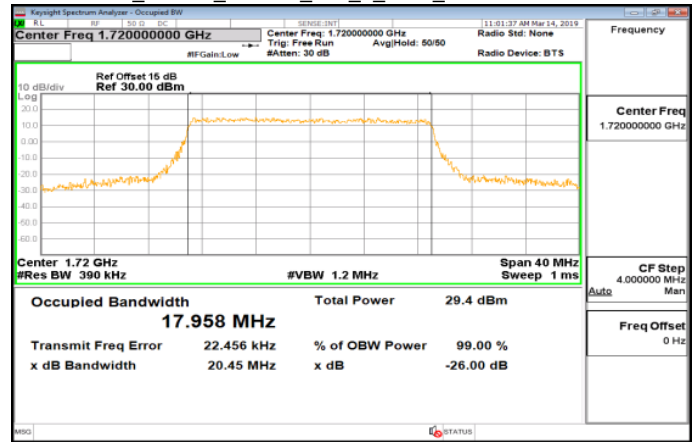
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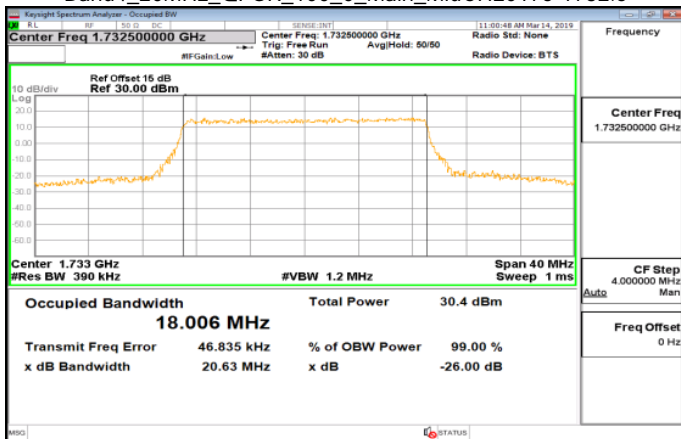
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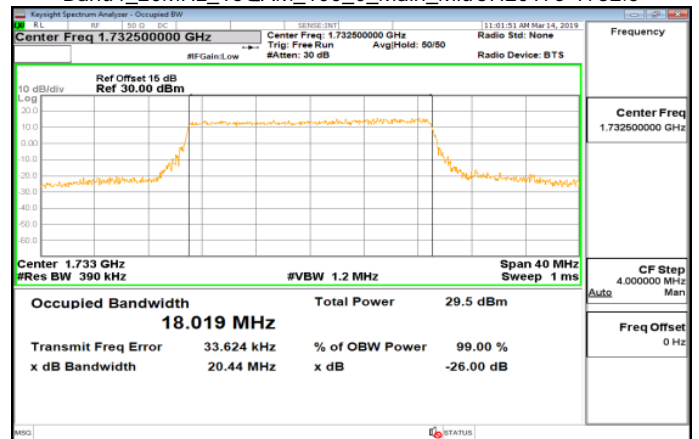
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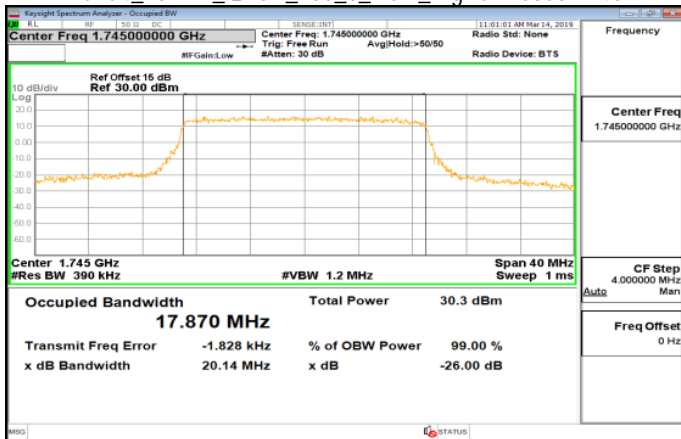
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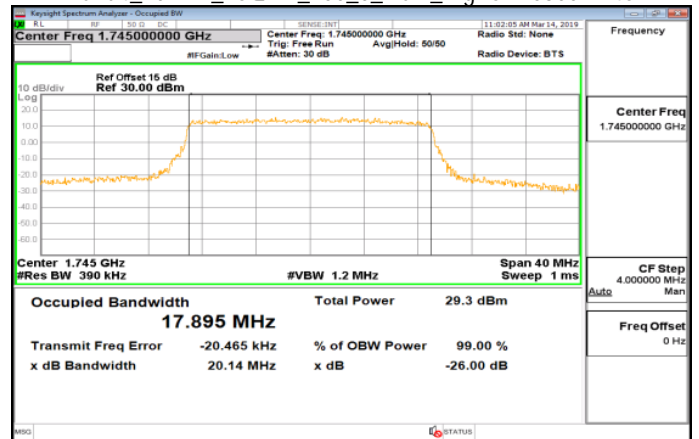
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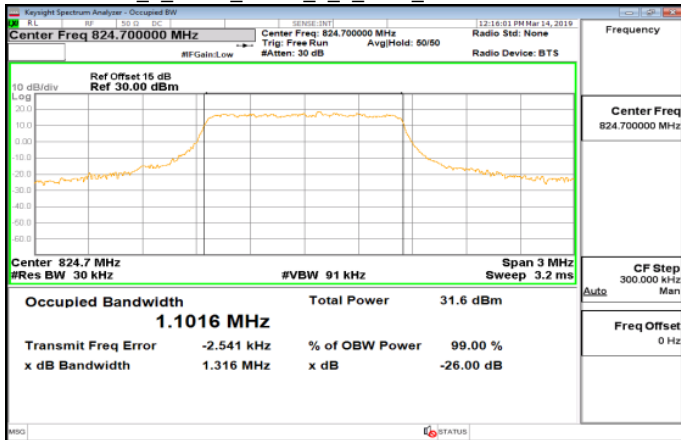


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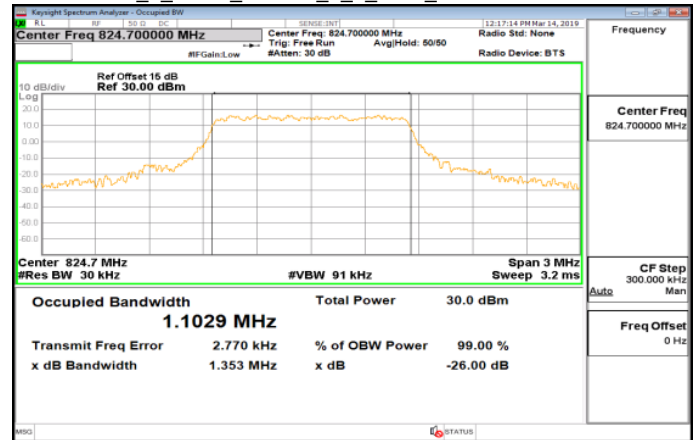
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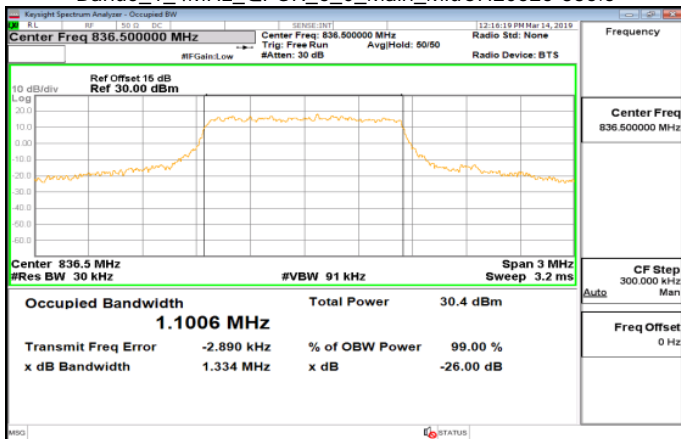
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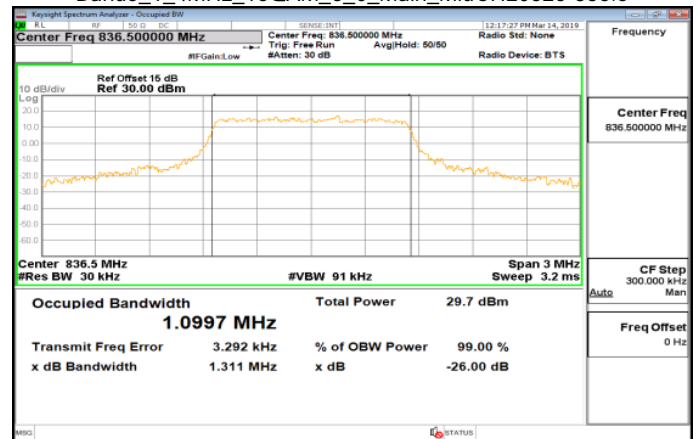
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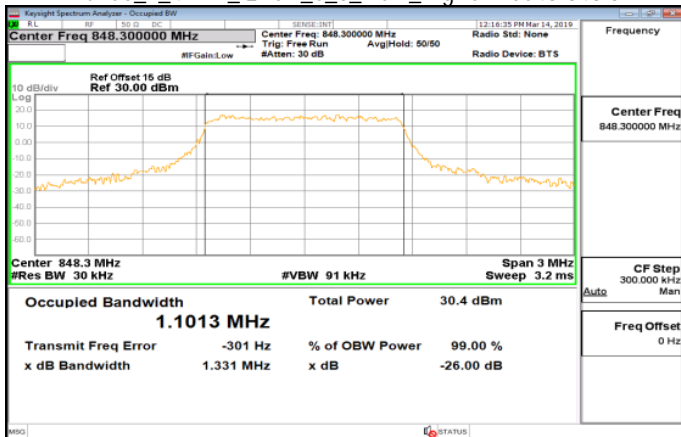
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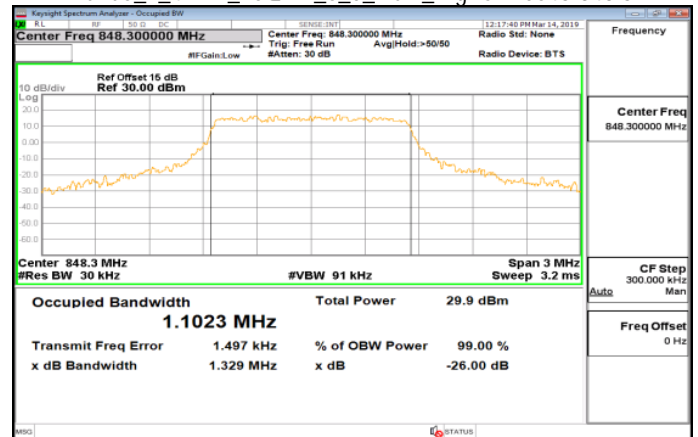
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Band5_1_4MHz_16QAM_6_0_Main_HighCH20643-848.3

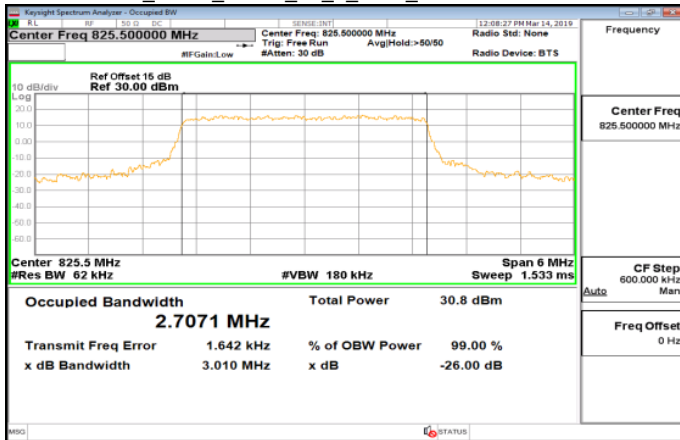


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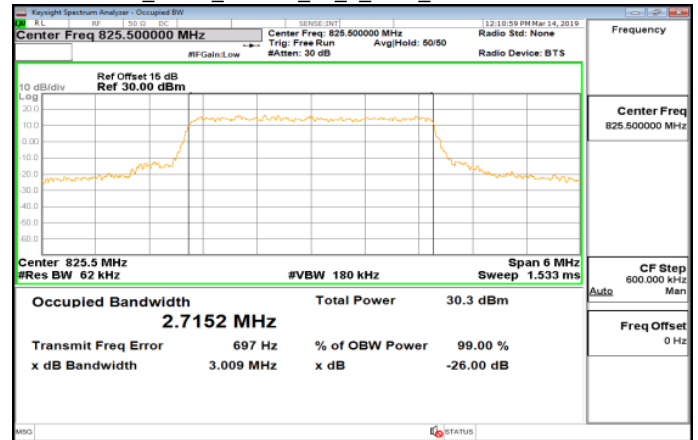
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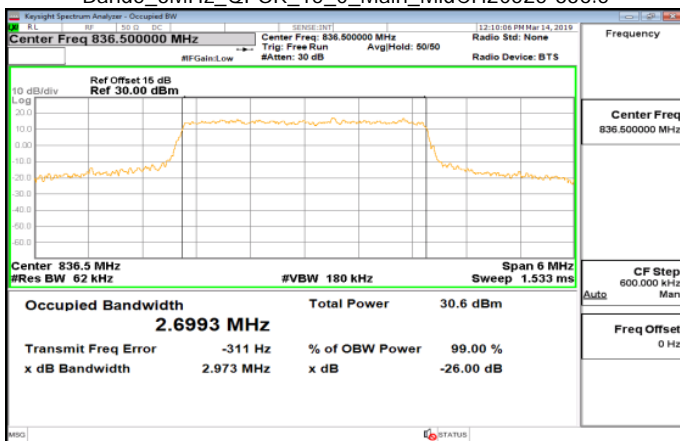
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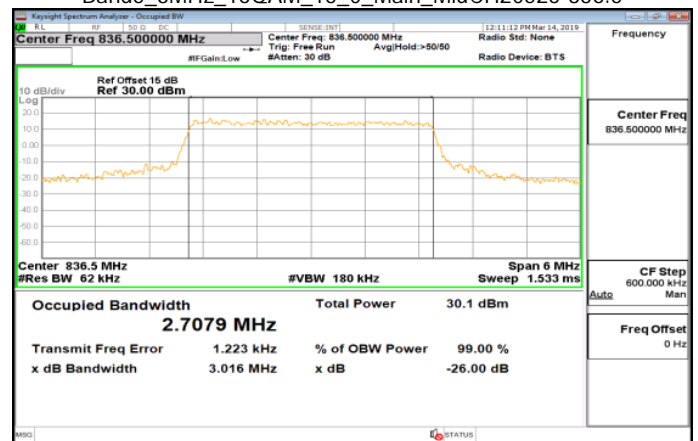
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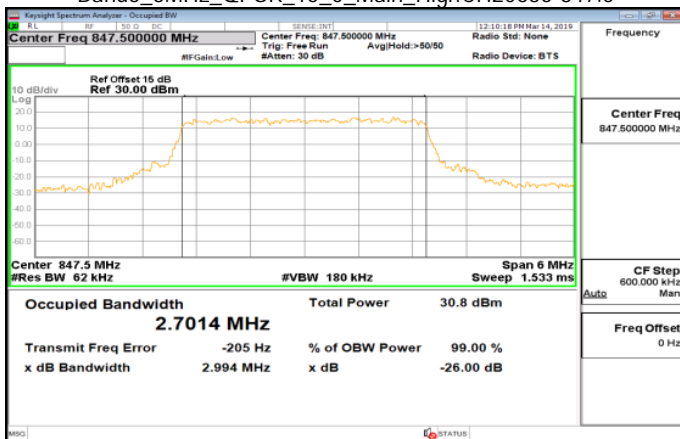
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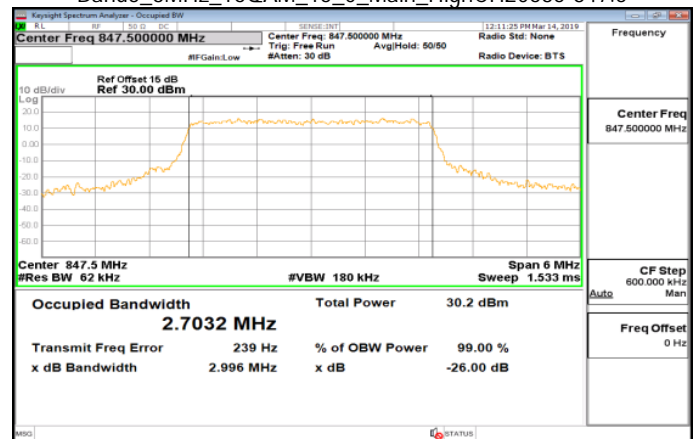
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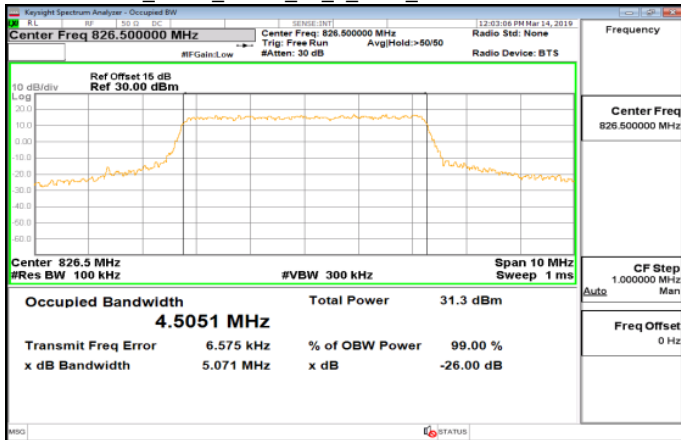


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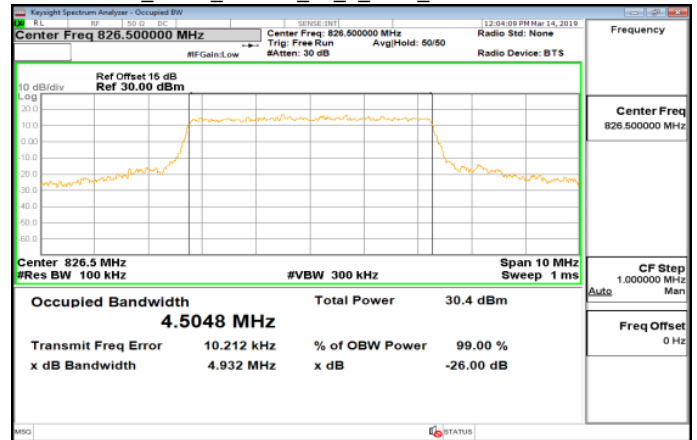
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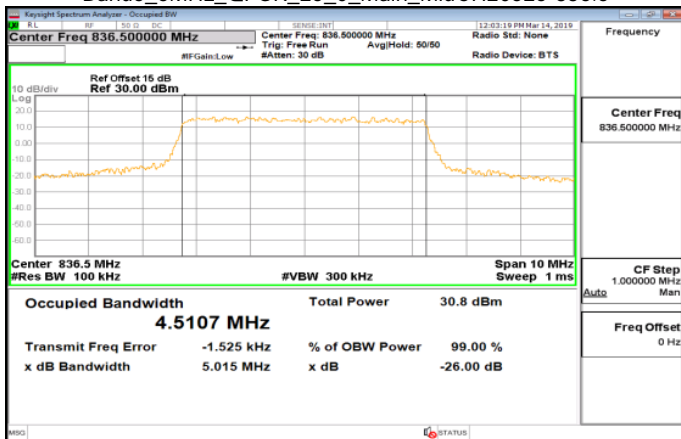
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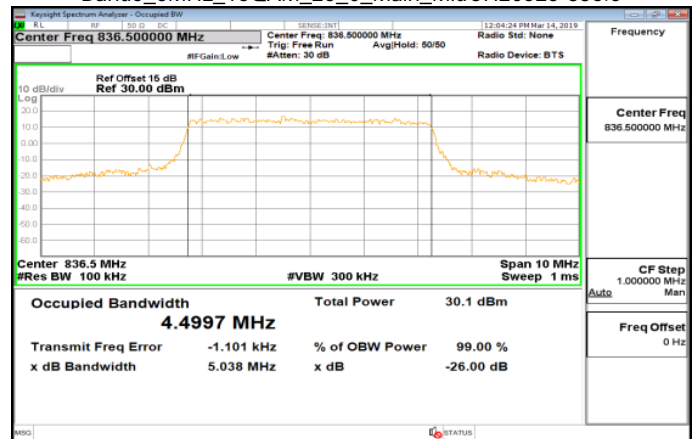
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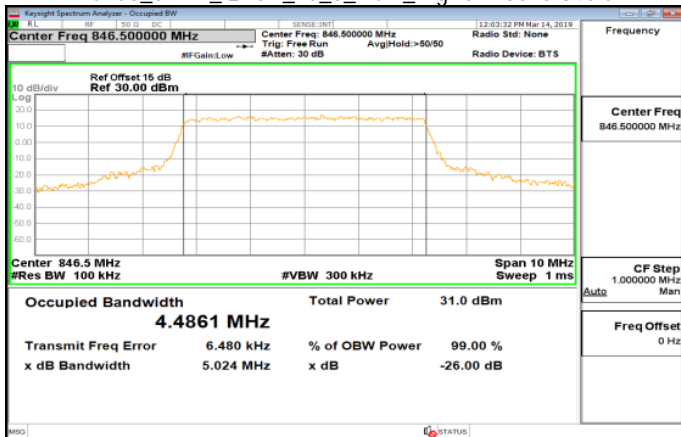
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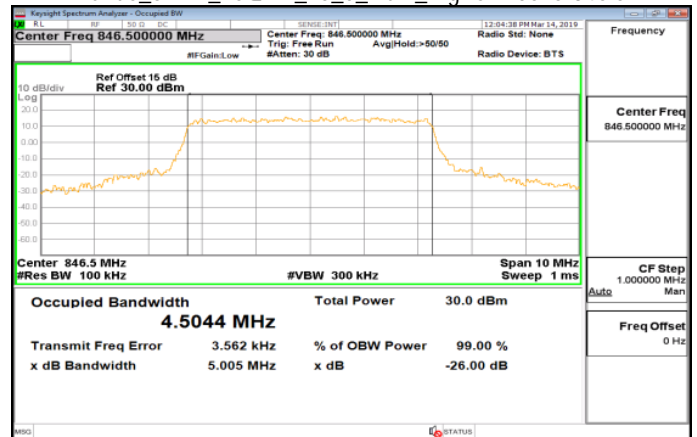
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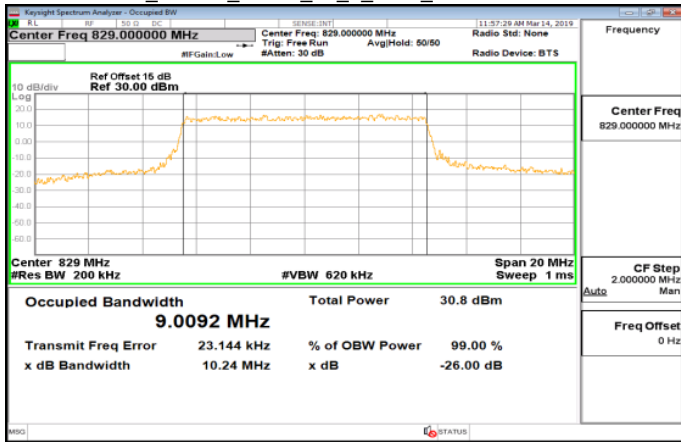


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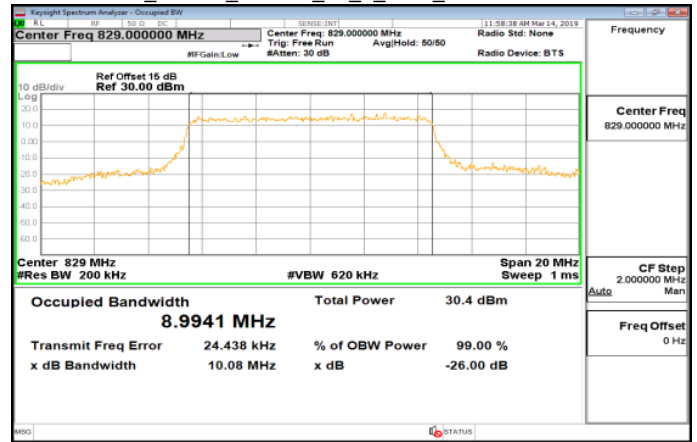
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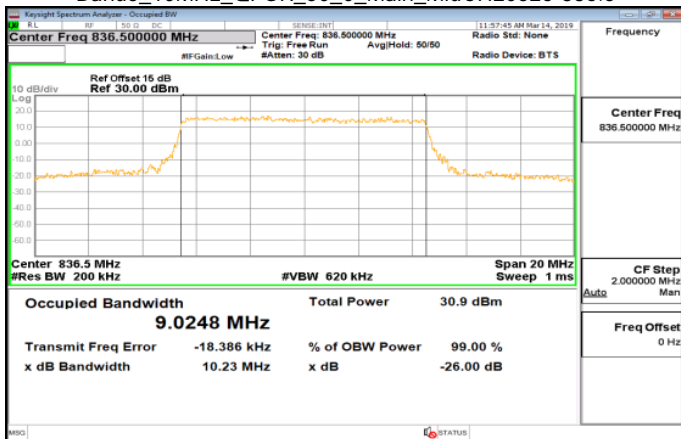
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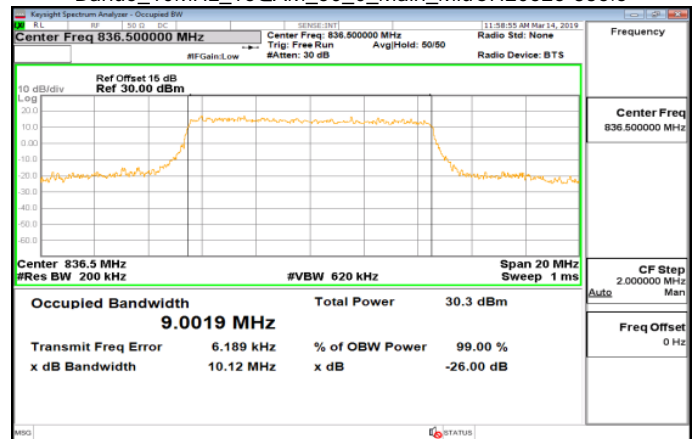
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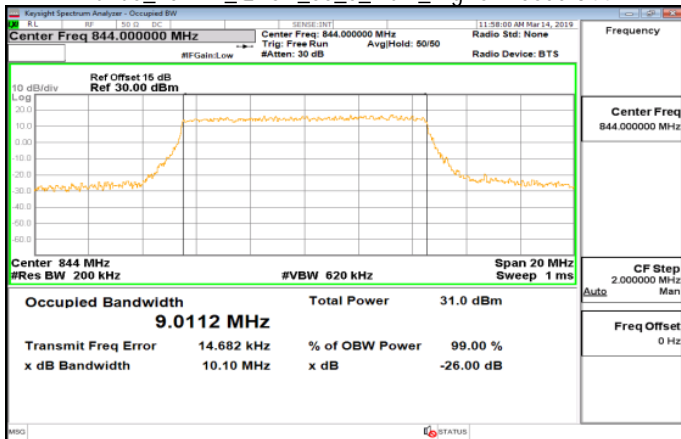
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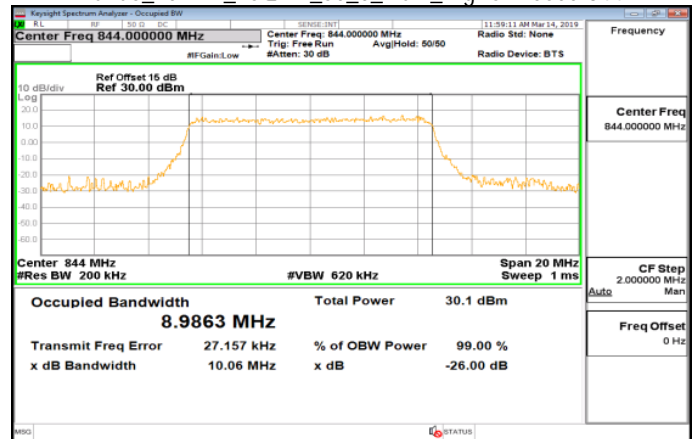
Band5_10MHz_16QAM_50_0_Main_MidCH20525-836.5



Band5_10MHz_QPSK_50_0_Main_HighCH20600-844



Band5_10MHz_16QAM_50_0_Main_HighCH20600-844



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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