

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** ASUSTeK COMPUTER INC.  
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

**Product Name:** ASUS Phone (Mobile Phone)

**Brand Name:** ASUS

**Model No.:** ASUS\_I006D

**Model Difference:** N/A

**Report Number:** ER/2021/20014

**FCC ID** MSQI006D

**IC:** 3568A-I006D

**FCC Rule Part:** 2, 27 C

**ISED Rule:** RSS-Gen, 199

**Issue Date:** April 14, 2021

**Date of Test:** January 26, 2021 - April 9, 2021

**Date of EUT Received:** January 26, 2021

**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:**

**Blue Yang / Asst. Manager**

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/20014	Rev.00	Original.	April 14, 2021	Karen Huang

**Note:**

- 1、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

Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_I006D
Model Difference:	N/A
Hardware Version:	V4
Software Version:	Android 11
Power Supply:	3.87Vdc from Rechargeable Li-Polymer Battery Pack or 5 / 9 / 12 / 15 / 20Vdc from AC/DC adapter
IMEI:	004400152020000

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## 1.2 Operation Frequency Range

LTE Band 7		LTE Band 38		LTE Band 41	
BW (MHz)	Operation Frequency (MHz)	BW (MHz)	Operation Frequency (MHz)	BW (MHz)	Operation Frequency (MHz)
5	2502.5 - 2567.5	5	2572.5 - 2617.5	5	2498.5 - 2687.5
10	2505.0 - 2565.0	10	2575.0 - 2615.0	10	2501.0 - 2685.0
15	2507.5 - 2562.5	15	2577.5 - 2612.5	15	2503.5 - 2682.5
20	2510.0 - 2560.0	20	2580.0 - 2610.0	20	2506.0 - 2680.0

## 1.3 Antenna Designation

Antenna Type	Antenna Model No.
PIFA	Ant1
	Ant2
	Ant3
	Ant4
<b>Note:</b> The EUT equipped with multiple antennas, however, transmission of 4G LTE bands are available by the above antenna model numbers.	

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)			
		Ant1	Ant2	Ant3	Ant4
LTE-Band 7	2500 ~ 2570	-3.60	0.03	-4.30	-2.21
LTE-Band 38	2570 ~ 2620	-	-0.79	-	-
LTE-Band 41	2496 ~ 2690	-	0.03	-	-

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

### 1.4.1 Intra-Band

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
7C	30	QPSK	24.64	EIRP	0.291	28.3690	28M4G7D
		16QAM	23.48	EIRP	0.223	28.2910	28M3D7W
		64QAM	20.37	EIRP	0.109	28.2610	28M3D7W
7C	35	QPSK	23.47	EIRP	0.222	32.6450	32M6G7D
		16QAM	22.63	EIRP	0.183	32.6210	32M6D7W
		64QAM	19.59	EIRP	0.091	32.5480	32M5D7W
7C	40	QPSK	23.57	EIRP	0.228	37.6080	37M6G7D
		16QAM	22.89	EIRP	0.194	37.5370	37M5D7W
		64QAM	18.71	EIRP	0.074	37.5000	37M5D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
38C	30	QPSK	22.67	EIRP	0.185	28.4020	28M4G7D
		16QAM	22.19	EIRP	0.165	28.3780	28M4D7W
		64QAM	19.84	EIRP	0.096	28.3430	28M3D7W
38C	40	QPSK	22.67	EIRP	0.185	37.7950	37M8G7D
		16QAM	22.08	EIRP	0.161	37.7220	37M7D7W
		64QAM	20.12	EIRP	0.103	37.7330	37M7D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
41C	25	QPSK	25.31	EIRP	0.340	22.9060	22M9G7D
		16QAM	24.60	EIRP	0.289	22.9550	23M0D7W
		64QAM	23.24	EIRP	0.211	22.8900	22M9D7W
41C	30	QPSK	24.53	EIRP	0.283	28.3480	28M3G7D
		16QAM	23.85	EIRP	0.243	28.3510	28M4D7W
		64QAM	22.35	EIRP	0.172	28.2750	28M3D7W
41C	35	QPSK	23.53	EIRP	0.225	32.6020	32M6G7D
		16QAM	22.71	EIRP	0.187	32.6970	32M7D7W
		64QAM	21.80	EIRP	0.151	32.5610	32M6D7W
41C	40	QPSK	23.50	EIRP	0.224	37.5440	37M5G7D
		16QAM	22.72	EIRP	0.187	37.5270	37M5D7W
		64QAM	21.68	EIRP	0.147	37.5560	37M6D7W

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## 1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 27C.

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

## 1.6 Test Facility

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

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

## 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.

Frequency	RF Cable loss (dB)	Attenuation (dB)	Offset (dB)
MB(2GHz - 3GHz)	5.2	10	15.2

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## 2.5 Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
LTE CA Band 7C 20M+20M QPSK	3.87	566
LTE CA Band 38C 20M+20M QPSK		615
LTE CA Band 41C 20M+20M QPSK		581

## 2.6 Configuration of Tested System

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

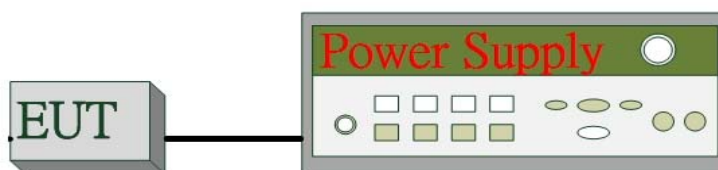


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyser	Anritsu	MT8821C	6261786084	shielded	Un-shielded
2.	DC Power Supply	Agilent	E3640A	MY40005907	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§27.50(h)(2)	RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §27.53(m)	RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §27.53(m)(2)	RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§27.50((B)	RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §27.54	RSS-199 §4.3	Frequency Stability	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 The Test Channel Details

This device is ASUS Phone (Mobile Phone) that supports with carrier aggregation (two carrier) uplink. Intra-Band contiguous specification as below:

E-UTRA Intra-Band CA configuration / Bandwidth combination set			
E-UTRA CA configuration	Component carriers in order of increasing carrier frequency		Maximum aggregated bandwidth [MHz]
	Channel bandwidth for carrier [MHz]	Channel bandwidth for carrier [MHz]	
CA_7C	10	20	30
	20	10	
	15	15	
	15	20	35
	20	15	
	20	20	40
CA_38C	15	15	30
	20	20	40
CA_41C	5	20	25
	20	5	
	10	20	30
	20	10	
	15	15	
	15	20	35
	20	15	
	20	20	40

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## 4.2 The Worst-Case Test Modes and Details

1. Transmissions of each frequency bands are available multiple antennas below, only one antenna can be enabled at any given time by each band, the EUT does not support MIMO mode.
2. Investigation upon available antennas to determine the worst case scenarios below for demonstrating measurements in this report.

BAND	Available Antennas				Worst Case Antenna			
	Ant1	Ant2	Ant3	Ant4	Ant1	Ant2	Ant3	Ant4
LTE Band 7	V	V	V	V		V		
LTE Band 38		V				V		
LTE Band 41		V				V		

3. This EUT is UE LTE 4G 1Tx/2Rx device for single carrier to support uplink Band 2/4/5/7/12/17/25/26/30/38/41/66/71.  
Band 7C/38C/41C are available for operation of uplink carrier aggregation (CA) mode, the transmitter enabled by 2Tx/2Rx mode.
4. For Band Edge and Emission Mask: The widest and narrowest BW combinations were tested. Combinations of same BW is considered equivalent. The RB combinations were selected as the signal activated closest to the band limit for determining the worst case scenario.
5. For Conducted Out of Band Emissions: The widest and narrowest combinations were tested. The RB combination that generates the highest power was determined as the worst case scenario.
6. For peak to average ratio measurements, investigations have been done that result in full RB as the worst case scenario.
7. For Radiated Emission, Pre-Scan has been conducted to determine the worst-case mode of X(E1)Y(E2)Z(H) axis for radiated emission and demonstrate. Measurements are conducted with configurations that generate the highest output power in each band.

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### 4.2.1 Intra-Band

For uplink Intra-Band CA, evaluation has been done for contiguous and non-contiguous channel and bandwidth, configurations that generates highest output power in standalone transmission have been selected for the final test.

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #				
		L	M	H	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Max. Output Power	7C	v	v	v				v	v	v	v	v	v				v	v
	38C	v	v	v				v		v	v	v	v				v	v
	41C	v	v	v			v	v	v	v	v	v	v				v	v
Frequency Stability	7C		v							v	v							v
	38C		v							v	v							v
	41C		v							v	v							v

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #				
		L	M	H	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
26dB and 99% Bandwidth	7C		v					v	v	v	v	v	v					v
	38C		v					v		v	v	v	v					v
	41C		v				v	v	v	v	v	v	v					v
Peak-to-Average Ratio	7C		v					v	v	v	v	v						v
	38C		v					v		v	v	v						v
	41C		v				v	v	v	v	v	v						v

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #				
		L	M	H	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Mask	7C	v	v	v				v		v	v			v				v
	38C	v	v	v						v	v			v				v
	41C	v	v	v			v			v	v			v				v

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #				
		L	M	H	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Conducted Emission	7C	v	v	v				v		v	v						v	
	38C	v	v	v						v	v						v	
	41C	v	v	v			v			v	v						v	

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #				
		L	M	H	15	20	25	30	35	40	QPSK	16QAM	64QAM	Edge left + Edge right	Edge left + Edge left	Edge right + Edge right	Edge right + Edge left	Full
Radiated Emission	7C	v	v	v				v			v						v	
	38C	v	v	v						v	v						v	
	41C	v	v	v			v				v						v	

### Radiated Emission

Band	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
				RBs allocated	RB Start
7C	Low	20_10	QPSK	1/99_1/0	
38C	High	20_20	QPSK	1/99_1/0	
41C	Mid	20_5	QPSK	1/99_1/0	

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 3dB Horizontal Polarization = +/- 3dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 1%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 dB	9kHz~30MHz: +/-2.3dB
	+/-	4.93 dB	30MHz - 1000MHz: +/- 3.37dB
	+/-	4.81 dB	1GHz - 18GHz: +/- 4.04dB
	+/-	4.52 dB	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	+/-	2.64 dB	9kHz~30MHz: +/-2.3dB
	+/-	4.45 dB	30MHz - 1000MHz: +/- 4.22dB
	+/-	4.81 dB	1GHz - 18GHz: +/- 4.08dB
	+/-	4.52 dB	18GHz - 40GHz: +/- 4.08dB

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 MAXIMUM 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

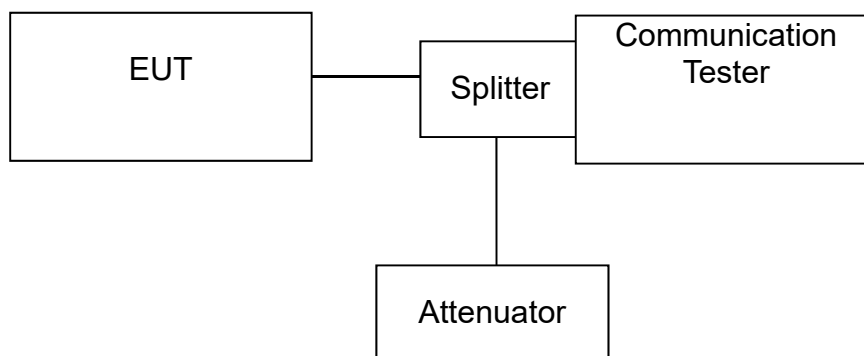
##### FCC 27, 50(h)

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

##### RSS-199 §4.4

For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

### 6.2 Test Set-up



**Note:** Measurement setup for testing on Antenna connector

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### 6.3 Output Power Measurement Applicable Guidance

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

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

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

### 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)<sup>2</sup>), 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.

### 6.5 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	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

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## 6.6 LTE Measurement Results:

### 6.6.1 Intra-Band

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

#### OUTPUT POWER FOR LTE BAND 7 (10MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
10MHz+ 20MHz	20805	2505.5	20949	2519.9	QPSK	1	49	1	0	19.98	21.95	24.09	24.12	0.258
						50	0	100	0	18.23	18.29	21.27	21.30	0.135
	21006	2525.6	21150	2540.0	QPSK	1	49	1	0	20.08	22.35	24.37	24.40	0.276
						50	0	100	0	18.26	18.08	21.18	21.21	0.132
	21206	2545.6	21350	2560.0	QPSK	1	49	1	0	19.33	21.39	23.49	23.52	0.225
						50	0	100	0	17.62	17.80	20.72	20.75	0.119
10MHz+ 20MHz	20805	2505.5	20949	2519.9	16QAM	1	49	1	0	19.16	21.13	23.27	23.30	0.214
						50	0	100	0	17.28	17.32	20.31	20.34	0.108
	21006	2525.6	21150	2540.0	16QAM	1	49	1	0	19.35	21.31	23.45	23.48	0.223
						50	0	100	0	17.49	17.33	20.42	20.45	0.111
	21206	2545.6	21350	2560.0	16QAM	1	49	1	0	18.33	20.13	22.33	22.36	0.172
						50	0	100	0	16.61	16.85	19.74	19.77	0.095
10MHz+ 20MHz	20805	2505.5	20949	2519.9	64QAM	1	49	1	0	15.24	17.23	19.36	19.39	0.087
						50	0	100	0	15.16	15.20	18.19	18.22	0.066
	21006	2525.6	21150	2540.0	64QAM	1	49	1	0	16.20	18.23	20.34	20.37	0.109
						50	0	100	0	15.45	15.25	18.36	18.39	0.069
	21206	2545.6	21350	2560.0	64QAM	1	49	1	0	15.12	17.05	19.20	19.23	0.084
						50	0	100	0	14.74	14.95	17.86	17.89	0.061

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

#### OUTPUT POWER FOR LTE BAND 7 (15MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
15MHz+ 15MHz	20825	2507.5	20975	2522.5	QPSK	1	74	1	0	19.94	20.02	22.99	23.02	0.200
						75	0	75	0	18.43	18.41	21.43	21.46	0.140
	21025	2527.5	21175	2542.5	QPSK	1	74	1	0	19.88	19.93	22.92	22.95	0.197
						75	0	75	0	18.43	18.29	21.37	21.40	0.138
	21225	2547.5	21375	2562.5	QPSK	1	74	1	0	19.56	19.59	22.59	22.62	0.183
						75	0	75	0	17.28	17.51	20.41	20.44	0.111
15MHz+ 15MHz	20825	2507.5	20975	2522.5	16QAM	1	74	1	0	19.61	19.64	22.64	22.67	0.185
						75	0	75	0	17.30	17.28	20.30	20.33	0.108
	21025	2527.5	21175	2542.5	16QAM	1	74	1	0	18.55	18.51	21.54	21.57	0.144
						75	0	75	0	17.35	17.36	20.37	20.40	0.110
	21225	2547.5	21375	2562.5	16QAM	1	74	1	0	18.52	18.57	21.56	21.59	0.144
						75	0	75	0	16.80	16.89	19.86	19.89	0.097
15MHz+ 15MHz	20825	2507.5	20975	2522.5	64QAM	1	74	1	0	15.16	16.18	18.71	18.74	0.075
						75	0	75	0	15.34	15.34	18.35	18.38	0.069
	21025	2527.5	21175	2542.5	64QAM	1	74	1	0	15.43	15.43	18.44	18.47	0.070
						75	0	75	0	15.85	15.80	18.84	18.87	0.077
	21225	2547.5	21375	2562.5	64QAM	1	74	1	0	15.10	15.07	18.10	18.13	0.065
						75	0	75	0	15.00	15.19	18.11	18.14	0.065

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

## OUTPUT POWER FOR LTE BAND 7 (15MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 20MHz	20828	2507.8	20999	2524.9	QPSK	1	74	1	0	19.97	19.96	22.98	23.01	0.200
						75	0	100	0	18.37	18.33	21.36	21.39	0.138
	21003	2525.3	21174	2542.4	QPSK	1	74	1	0	19.85	19.85	22.86	22.89	0.195
						75	0	100	0	18.29	18.16	21.24	21.27	0.134
	21179	2542.9	21350	2560.0	QPSK	1	74	1	0	19.31	19.37	22.35	22.38	0.173
						75	0	100	0	17.65	17.76	20.72	20.75	0.119
15MHz+ 20MHz	20828	2507.8	20999	2524.9	16QAM	1	74	1	0	19.24	19.24	22.25	22.28	0.169
						75	0	100	0	17.15	17.12	20.15	20.18	0.104
	21003	2525.3	21174	2542.4	16QAM	1	74	1	0	19.02	19.04	22.04	22.07	0.161
						75	0	100	0	17.20	16.99	20.11	20.14	0.103
	21179	2542.9	21350	2560.0	16QAM	1	74	1	0	18.43	18.46	21.46	21.49	0.141
						75	0	100	0	16.57	16.75	19.67	19.70	0.093
15MHz+ 20MHz	20828	2507.8	20999	2524.9	64QAM	1	74	1	0	16.21	15.91	19.07	19.10	0.081
						75	0	100	0	15.91	15.87	18.90	18.93	0.078
	21003	2525.3	21174	2542.4	64QAM	1	74	1	0	16.09	16.26	19.19	19.22	0.083
						75	0	100	0	15.93	15.57	18.76	18.79	0.076
	21179	2542.9	21350	2560.0	64QAM	1	74	1	0	15.46	15.40	18.44	18.47	0.070
						75	0	100	0	15.07	15.28	18.19	18.22	0.066

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

## OUTPUT POWER FOR LTE BAND 7 (20MHz + 10MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
20MHz+ 10MHz	20850	2510.0	20994	2524.4	QPSK	1	99	1	0	22.52	20.44	24.61	24.64	0.291
						100	0	50	0	18.48	18.43	21.47	21.50	0.141
	21051	2530.1	21195	2544.5	QPSK	1	99	1	0	21.37	19.43	23.52	23.55	0.226
						100	0	50	0	18.39	18.23	21.32	21.35	0.136
	21251	2550.1	21395	2564.5	QPSK	1	99	1	0	21.73	19.95	23.94	23.97	0.250
						100	0	50	0	17.52	17.68	20.61	20.64	0.116
20MHz+ 10MHz	20850	2510.0	20994	2524.4	16QAM	1	99	1	0	20.75	18.82	22.90	22.93	0.196
						100	0	50	0	17.46	17.40	20.44	20.47	0.111
	21051	2530.1	21195	2544.5	16QAM	1	99	1	0	19.93	18.11	22.12	22.15	0.164
						100	0	50	0	17.28	17.14	20.22	20.25	0.106
	21251	2550.1	21395	2564.5	16QAM	1	99	1	0	20.32	18.23	22.41	22.44	0.175
						100	0	50	0	16.76	17.12	19.95	19.98	0.100
20MHz+ 10MHz	20850	2510.0	20994	2524.4	64QAM	1	99	1	0	17.06	15.17	19.23	19.26	0.084
						100	0	50	0	15.58	15.49	18.55	18.58	0.072
	21051	2530.1	21195	2544.5	64QAM	1	99	1	0	16.50	14.45	18.61	18.64	0.073
						100	0	50	0	15.32	15.24	18.29	18.32	0.068
	21251	2550.1	21395	2564.5	64QAM	1	99	1	0	16.84	14.79	18.95	18.98	0.079
						100	0	50	0	14.73	14.89	17.82	17.85	0.061

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

### OUTPUT POWER FOR LTE BAND 7 (20MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+15MHz	20850	2510.0	21021	2527.1	QPSK	1	99	1	0	20.43	20.42	23.44	23.47	0.222
						100	0	75	0	18.64	18.49	21.58	21.61	0.145
	21026	2527.6	21197	2544.7	QPSK	1	99	1	0	19.86	19.84	22.86	22.89	0.195
						100	0	75	0	18.48	18.17	21.34	21.37	0.137
	21201	2545.1	21372	2562.2	QPSK	1	99	1	0	19.89	18.88	22.42	22.45	0.176
						100	0	75	0	17.77	18.02	20.91	20.94	0.124
20MHz+15MHz	20850	2510.0	21021	2527.1	16QAM	1	99	1	0	19.61	19.57	22.60	22.63	0.183
						100	0	75	0	17.55	17.49	20.53	20.56	0.114
	21026	2527.6	21197	2544.7	16QAM	1	99	1	0	18.77	18.87	21.83	21.86	0.153
						100	0	75	0	17.28	17.09	20.20	20.23	0.105
	21201	2545.1	21372	2562.2	16QAM	1	99	1	0	19.20	19.20	22.21	22.24	0.168
						100	0	75	0	16.52	16.73	19.64	19.67	0.093
20MHz+15MHz	20850	2510.0	21021	2527.1	64QAM	1	99	1	0	16.77	16.32	19.56	19.59	0.091
						100	0	75	0	15.95	15.83	18.90	18.93	0.078
	21026	2527.6	21197	2544.7	64QAM	1	99	1	0	14.68	14.66	17.68	17.71	0.059
						100	0	75	0	15.27	15.14	18.22	18.25	0.067
	21201	2545.1	21372	2562.2	64QAM	1	99	1	0	15.41	15.51	18.47	18.50	0.071
						100	0	75	0	14.78	14.88	17.84	17.87	0.061

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

### OUTPUT POWER FOR LTE BAND 7 (20MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+20MHz	20850	2510.0	21048	2529.8	QPSK	1	99	1	0	20.59	20.47	23.54	23.57	0.228
						100	0	100	0	18.58	18.46	21.53	21.56	0.143
	21001	2525.1	21199	2544.9	QPSK	1	99	1	0	19.83	19.84	22.85	22.88	0.194
						100	0	100	0	18.48	18.31	21.41	21.44	0.139
	21152	2540.2	21350	2560.0	QPSK	1	99	1	0	19.47	19.52	22.51	22.54	0.179
						100	0	100	0	18.29	18.40	21.36	21.39	0.138
20MHz+20MHz	20850	2510.0	21048	2529.8	16QAM	1	99	1	0	19.85	19.84	22.86	22.89	0.194
						100	0	100	0	17.36	17.09	20.24	20.27	0.106
	21001	2525.1	21199	2544.9	16QAM	1	99	1	0	18.79	18.80	21.81	21.84	0.153
						100	0	100	0	17.49	17.37	20.44	20.47	0.111
	21152	2540.2	21350	2560.0	16QAM	1	99	1	0	18.55	18.52	21.55	21.58	0.144
						100	0	100	0	17.30	17.45	20.39	20.42	0.110
20MHz+20MHz	20850	2510.0	21048	2529.8	64QAM	1	99	1	0	15.67	15.61	18.65	18.68	0.074
						100	0	100	0	15.34	15.19	18.28	18.31	0.068
	21001	2525.1	21199	2544.9	64QAM	1	99	1	0	15.66	15.67	18.68	18.71	0.074
						100	0	100	0	15.30	14.99	18.16	18.19	0.066
	21152	2540.2	21350	2560.0	64QAM	1	99	1	0	14.89	14.97	17.94	17.97	0.063
						100	0	100	0	15.49	15.80	18.66	18.69	0.074

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.79

### OUTPUT POWER FOR LTE BAND 38 (15MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
15MHz+ 15MHz	37825	2577.5	37975	2592.5	QPSK	1	74	1	0	19.96	19.98	22.98	22.19	0.166
						75	0	75	0	18.66	18.81	21.75	20.96	0.125
	37925	2587.5	38075	2602.5	QPSK	1	74	1	0	20.34	20.49	23.43	22.64	0.183
						75	0	75	0	18.79	19.01	21.91	21.12	0.129
	38025	2597.5	38175	2612.5	QPSK	1	74	1	0	20.45	20.44	23.46	22.67	0.185
						75	0	75	0	18.91	18.85	21.89	21.10	0.129
15MHz+ 15MHz	37825	2577.5	37975	2592.5	16QAM	1	74	1	0	19.91	19.87	22.90	22.11	0.163
						75	0	75	0	17.74	17.77	20.77	19.98	0.099
	37925	2587.5	38075	2602.5	16QAM	1	74	1	0	19.75	19.72	22.75	21.96	0.157
						75	0	75	0	17.87	17.95	20.92	20.13	0.103
	38025	2597.5	38175	2612.5	16QAM	1	74	1	0	19.96	19.97	22.98	22.19	0.165
						75	0	75	0	17.80	17.93	20.88	20.09	0.102
15MHz+ 15MHz	37825	2577.5	37975	2592.5	64QAM	1	74	1	0	16.96	16.91	19.95	19.16	0.082
						75	0	75	0	17.61	17.63	20.63	19.84	0.096
	37925	2587.5	38075	2602.5	64QAM	1	74	1	0	16.73	16.79	19.77	18.98	0.079
						75	0	75	0	17.51	17.57	20.55	19.76	0.095
	38025	2597.5	38175	2612.5	64QAM	1	74	1	0	17.20	17.20	20.21	19.42	0.088
						75	0	75	0	17.61	17.63	20.63	19.84	0.096

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.79

### OUTPUT POWER FOR LTE BAND 38 (20MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+ 20MHz	37850	2580.0	38048	2599.8	QPSK	1	99	1	0	20.29	20.21	23.26	22.47	0.177
						100	0	100	0	18.72	18.87	21.81	21.02	0.126
	37901	2585.1	38099	2604.9	QPSK	1	99	1	0	20.32	20.52	23.43	22.64	0.184
						100	0	100	0	18.81	18.98	21.91	21.12	0.129
	37952	2590.2	38150	2610.0	QPSK	1	99	1	0	20.41	20.48	23.46	22.67	0.185
						100	0	100	0	18.76	18.90	21.84	21.05	0.127
20MHz+ 20MHz	37850	2580.0	38048	2599.8	16QAM	1	99	1	0	19.60	19.65	22.64	21.85	0.153
						100	0	100	0	17.67	17.98	20.84	20.05	0.101
	37901	2585.1	38099	2604.9	16QAM	1	99	1	0	19.74	19.80	22.78	21.99	0.158
						100	0	100	0	17.78	17.99	20.90	20.11	0.102
	37952	2590.2	38150	2610.0	16QAM	1	99	1	0	19.82	19.89	22.87	22.08	0.161
						100	0	100	0	17.82	17.92	20.88	20.09	0.102
20MHz+ 20MHz	37850	2580.0	38048	2599.8	64QAM	1	99	1	0	16.91	16.84	19.89	19.10	0.081
						100	0	100	0	17.86	17.93	20.91	20.12	0.103
	37901	2585.1	38099	2604.9	64QAM	1	99	1	0	16.87	16.81	19.85	19.06	0.081
						100	0	100	0	17.71	17.88	20.81	20.02	0.100
	37952	2590.2	38150	2610.0	64QAM	1	99	1	0	17.00	17.15	20.09	19.30	0.085
						100	0	100	0	17.67	17.76	20.73	19.94	0.099

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

### OUTPUT POWER FOR LTE BAND 41 (10MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
10MHz+ 20MHz	39705	2501.5	39849	2515.9	QPSK	1	49	1	0	20.47	22.29	24.48	24.51	0.283
						50	0	100	0	18.68	18.67	21.69	21.72	0.148
	40526	2583.6	40670	2598.0	QPSK	1	49	1	0	20.35	22.17	24.36	24.39	0.275
						50	0	100	0	18.62	18.77	21.71	21.74	0.149
	41346	2665.6	41490	2680.0	QPSK	1	49	1	0	20.31	22.13	24.32	24.35	0.273
						50	0	100	0	18.67	18.29	21.49	21.52	0.142
10MHz+ 20MHz	39705	2501.5	39849	2515.9	16QAM	1	49	1	0	19.58	21.60	23.72	23.75	0.237
						50	0	100	0	17.77	17.83	20.81	20.84	0.121
	40526	2583.6	40670	2598.0	16QAM	1	49	1	0	19.69	21.70	23.82	23.85	0.243
						50	0	100	0	17.72	17.85	20.80	20.83	0.121
	41346	2665.6	41490	2680.0	16QAM	1	49	1	0	19.35	21.36	23.48	23.51	0.224
						50	0	100	0	17.80	17.50	20.66	20.69	0.117
10MHz+ 20MHz	39705	2501.5	39849	2515.9	64QAM	1	49	1	0	18.18	20.21	22.32	22.35	0.172
						50	0	100	0	17.71	17.60	20.67	20.70	0.117
	40526	2583.6	40670	2598.0	64QAM	1	49	1	0	18.18	20.20	22.32	22.35	0.172
						50	0	100	0	17.62	17.77	20.71	20.74	0.118
	41346	2665.6	41490	2680.0	64QAM	1	49	1	0	18.06	19.95	22.12	22.15	0.164
						50	0	100	0	17.74	17.43	20.60	20.63	0.116

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

### OUTPUT POWER FOR LTE BAND 41 (15MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total	(dBm)	(W)
15MHz+ 15MHz	39725	2503.5	39875	2518.5	QPSK	1	74	1	0	20.29	20.25	23.28	23.31	0.214
						75	0	75	0	18.50	18.51	21.52	21.55	0.143
	40545	2585.5	40695	2600.5	QPSK	1	74	1	0	20.28	20.34	23.32	23.35	0.216
						75	0	75	0	18.55	18.67	21.62	21.65	0.146
	41365	2667.5	41515	2682.5	QPSK	1	74	1	0	20.06	20.02	23.05	23.08	0.203
						75	0	75	0	18.61	18.14	21.39	21.42	0.139
15MHz+ 15MHz	39725	2503.5	39875	2518.5	16QAM	1	74	1	0	19.35	19.42	22.40	22.43	0.175
						75	0	75	0	17.49	17.50	20.51	20.54	0.113
	40545	2585.5	40695	2600.5	16QAM	1	74	1	0	19.53	19.61	22.58	22.61	0.182
						75	0	75	0	17.53	17.74	20.65	20.68	0.117
	41365	2667.5	41515	2682.5	16QAM	1	74	1	0	19.35	19.31	22.34	22.37	0.173
						75	0	75	0	17.53	17.15	20.35	20.38	0.109
15MHz+ 15MHz	39725	2503.5	39875	2518.5	64QAM	1	74	1	0	18.10	18.10	21.11	21.14	0.130
						75	0	75	0	17.59	17.55	20.58	20.61	0.115
	40545	2585.5	40695	2600.5	64QAM	1	74	1	0	18.31	18.29	21.31	21.34	0.136
						75	0	75	0	17.48	17.70	20.60	20.63	0.116
	41365	2667.5	41515	2682.5	64QAM	1	74	1	0	17.32	17.28	20.31	20.34	0.108
						75	0	75	0	17.62	17.12	20.39	20.42	0.110

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

**OUTPUT POWER FOR LTE BAND 41 (15MHz + 20MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
15MHz+ 20MHz	39728	2503.8	39899	2520.9	QPSK	1	74	1	0	20.25	20.26	23.27	23.30	0.214
						75	0	100	0	18.64	18.51	21.59	21.62	0.145
	40523	2583.3	40694	2600.4	QPSK	1	74	1	0	20.36	20.32	23.35	23.38	0.218
						75	0	100	0	18.60	18.76	21.69	21.72	0.149
	41319	2662.9	41490	2680.0	QPSK	1	74	1	0	20.14	20.18	23.17	23.20	0.209
						75	0	100	0	18.74	18.23	21.50	21.53	0.142
15MHz+ 20MHz	39728	2503.8	39899	2520.9	16QAM	1	74	1	0	19.45	19.47	22.47	22.50	0.178
						75	0	100	0	17.65	17.63	20.65	20.68	0.117
	40523	2583.3	40694	2600.4	16QAM	1	74	1	0	19.61	19.67	22.65	22.68	0.185
						75	0	100	0	17.52	17.88	20.71	20.74	0.119
	41319	2662.9	41490	2680.0	16QAM	1	74	1	0	19.53	19.49	22.52	22.55	0.180
						75	0	100	0	17.75	17.32	20.55	20.58	0.114
15MHz+ 20MHz	39728	2503.8	39899	2520.9	64QAM	1	74	1	0	18.08	18.11	21.11	21.14	0.130
						75	0	100	0	17.61	17.52	20.58	20.61	0.115
	40523	2583.3	40694	2600.4	64QAM	1	74	1	0	18.47	18.52	21.51	21.54	0.142
						75	0	100	0	17.52	17.65	20.60	20.63	0.115
	41319	2662.9	41490	2680.0	64QAM	1	74	1	0	17.59	17.54	20.58	20.61	0.115
						75	0	100	0	17.79	17.25	20.54	20.57	0.114

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

**OUTPUT POWER FOR LTE BAND 41 (20MHz + 10MHz)**

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+ 10MHz	39750	2506.0	39894	2520.4	QPSK	1	99	1	0	22.34	20.37	24.48	24.51	0.282
						100	0	50	0	18.66	18.63	21.66	21.69	0.147
	40571	2588.1	40715	2602.5	QPSK	1	99	1	0	22.39	20.34	24.50	24.53	0.283
						100	0	50	0	18.65	18.71	21.69	21.72	0.149
	41391	2670.1	41535	2684.5	QPSK	1	99	1	0	22.15	20.11	24.26	24.29	0.268
						100	0	50	0	18.60	18.11	21.37	21.40	0.138
20MHz+ 10MHz	39750	2506.0	39894	2520.4	16QAM	1	99	1	0	21.46	19.53	23.61	23.64	0.231
						100	0	50	0	17.64	17.63	20.65	20.68	0.117
	40571	2588.1	40715	2602.5	16QAM	1	99	1	0	21.74	19.16	23.65	23.68	0.233
						100	0	50	0	17.72	17.78	20.76	20.79	0.120
	41391	2670.1	41535	2684.5	16QAM	1	99	1	0	21.15	19.27	23.32	23.35	0.216
						100	0	50	0	17.62	17.16	20.41	20.44	0.111
20MHz+ 10MHz	39750	2506.0	39894	2520.4	64QAM	1	99	1	0	20.19	18.20	22.32	22.35	0.172
						100	0	50	0	17.69	17.59	20.65	20.68	0.117
	40571	2588.1	40715	2602.5	64QAM	1	99	1	0	19.87	17.90	22.01	22.04	0.160
						100	0	50	0	17.70	17.86	20.79	20.82	0.121
	41391	2670.1	41535	2684.5	64QAM	1	99	1	0	18.21	16.26	20.35	20.38	0.109
						100	0	50	0	17.67	17.28	20.49	20.52	0.113

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

### OUTPUT POWER FOR LTE BAND 41 (20MHz + 15MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+ 15MHz	39750	2506.0	39921	2523.1	QPSK	1	99	1	0	20.35	20.27	23.32	23.35	0.216
						100	0	75	0	18.47	18.49	21.49	21.52	0.142
	40546	2585.6	40717	2602.7	QPSK	1	99	1	0	20.49	20.49	23.50	23.53	0.225
						100	0	75	0	18.54	18.81	21.69	21.72	0.149
	41341	2665.1	41512	2682.2	QPSK	1	99	1	0	20.17	20.07	23.13	23.16	0.207
						100	0	75	0	18.70	18.22	21.48	21.51	0.141
20MHz+ 15MHz	39750	2506.0	39921	2523.1	16QAM	1	99	1	0	19.45	19.37	22.42	22.45	0.176
						100	0	75	0	17.57	17.58	20.59	20.62	0.115
	40546	2585.6	40717	2602.7	16QAM	1	99	1	0	19.71	19.63	22.68	22.71	0.187
						100	0	75	0	17.63	17.80	20.73	20.76	0.119
	41341	2665.1	41512	2682.2	16QAM	1	99	1	0	19.38	19.39	22.40	22.43	0.175
						100	0	75	0	17.69	17.21	20.47	20.50	0.112
20MHz+ 15MHz	39750	2506.0	39921	2523.1	64QAM	1	99	1	0	18.15	18.08	21.13	21.16	0.130
						100	0	75	0	17.63	17.59	20.62	20.65	0.116
	40546	2585.6	40717	2602.7	64QAM	1	99	1	0	18.76	18.76	21.77	21.80	0.151
						100	0	75	0	17.57	17.82	20.71	20.74	0.118
	41341	2665.1	41512	2682.2	64QAM	1	99	1	0	17.42	17.33	20.39	20.42	0.110
						100	0	75	0	17.66	17.27	20.48	20.51	0.112

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

### OUTPUT POWER FOR LTE BAND 41 (20MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+ 20MHz	39750	2506.0	39948	2525.8	QPSK	1	99	1	0	20.35	20.29	23.33	23.36	0.217
						100	0	100	0	18.48	18.49	21.50	21.53	0.142
	40521	2583.1	40719	2602.9	QPSK	1	99	1	0	20.43	20.49	23.47	23.50	0.224
						100	0	100	0	18.55	18.73	21.65	21.68	0.147
	41292	2660.2	41490	2680.0	QPSK	1	99	1	0	20.35	20.30	23.34	23.37	0.217
						100	0	100	0	18.76	18.27	21.53	21.56	0.143
20MHz+ 20MHz	39750	2506.0	39948	2525.8	16QAM	1	99	1	0	19.44	19.48	22.47	22.50	0.178
						100	0	100	0	17.64	17.64	20.65	20.68	0.117
	40521	2583.1	40719	2602.9	16QAM	1	99	1	0	19.65	19.71	22.69	22.72	0.187
						100	0	100	0	17.62	17.88	20.76	20.79	0.120
	41292	2660.2	41490	2680.0	16QAM	1	99	1	0	19.54	19.49	22.53	22.56	0.180
						100	0	100	0	17.83	17.33	20.60	20.63	0.116
20MHz+ 20MHz	39750	2506.0	39948	2525.8	64QAM	1	99	1	0	18.15	18.09	21.13	21.16	0.131
						100	0	100	0	17.55	17.52	20.55	20.58	0.114
	40521	2583.1	40719	2602.9	64QAM	1	99	1	0	18.62	18.66	21.65	21.68	0.147
						100	0	100	0	17.65	17.80	20.74	20.77	0.119
	41292	2660.2	41490	2680.0	64QAM	1	99	1	0	17.68	17.62	20.66	20.69	0.117
						100	0	100	0	17.81	17.22	20.54	20.57	0.114

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

### OUTPUT POWER FOR LTE BAND 41 (20MHz + 5MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
20MHz+ 5MHz	39750	2506.0	39867	2517.7	QPSK	1	99	1	0	23.47	20.48	25.24	25.27	0.336
						100	0	25	0	19.17	18.69	21.95	21.98	0.158
	40595	2590.5	40712	2602.2	QPSK	1	99	1	0	23.50	20.55	25.28	25.31	0.340
						100	0	25	0	19.22	18.86	22.05	22.08	0.162
	41440	2675.0	41557	2686.7	QPSK	1	99	1	0	22.89	19.91	24.66	24.69	0.295
						100	0	25	0	18.85	18.01	21.46	21.49	0.141
20MHz+ 5MHz	39750	2506.0	39867	2517.7	16QAM	1	99	1	0	22.53	19.54	24.30	24.33	0.271
						100	0	25	0	18.14	17.67	20.92	20.95	0.124
	40595	2590.5	40712	2602.2	16QAM	1	99	1	0	22.81	19.81	24.57	24.60	0.289
						100	0	25	0	18.20	17.85	21.04	21.07	0.128
	41440	2675.0	41557	2686.7	16QAM	1	99	1	0	22.15	19.16	23.92	23.95	0.248
						100	0	25	0	17.88	17.13	20.53	20.56	0.114
20MHz+ 5MHz	39750	2506.0	39867	2517.7	64QAM	1	99	1	0	21.32	18.33	23.09	23.12	0.205
						100	0	25	0	18.19	17.66	20.94	20.97	0.125
	40595	2590.5	40712	2602.2	64QAM	1	99	1	0	20.73	17.73	22.49	22.52	0.179
						100	0	25	0	18.30	17.88	21.11	21.14	0.130
	41440	2675.0	41557	2686.7	64QAM	1	99	1	0	19.14	16.15	20.91	20.94	0.124
						100	0	25	0	17.91	17.16	20.56	20.59	0.115

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	0.03

### OUTPUT POWER FOR LTE BAND 41 (5MHz + 20MHz)

Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		Conducted Average (dBm)			EIRP Average (dBm)	EIRP Average (W)
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	PCC	SCC1	Total		
5MHz+ 20MHz	39683	2499.3	39800	2511.0	QPSK	1	24	1	0	20.49	23.46	25.23	25.26	0.336
						25	0	100	0	18.62	19.23	21.95	21.98	0.158
	40528	2583.8	40645	2595.5	QPSK	1	24	1	0	20.47	23.46	25.23	25.26	0.336
						25	0	100	0	18.58	19.25	21.94	21.97	0.157
	41373	2668.3	41490	2680.0	QPSK	1	24	1	0	20.27	23.26	25.03	25.06	0.320
						25	0	100	0	18.59	18.82	21.72	21.75	0.150
5MHz+ 20MHz	39683	2499.3	39800	2511.0	16QAM	1	24	1	0	19.61	22.58	24.35	24.38	0.274
						25	0	100	0	17.59	18.19	20.91	20.94	0.124
	40528	2583.8	40645	2595.5	16QAM	1	24	1	0	19.51	22.50	24.27	24.30	0.269
						25	0	100	0	17.58	18.14	20.88	20.91	0.123
	41373	2668.3	41490	2680.0	16QAM	1	24	1	0	19.48	22.47	24.24	24.27	0.267
						25	0	100	0	17.59	17.78	20.70	20.73	0.118
5MHz+ 20MHz	39683	2499.3	39800	2511.0	64QAM	1	24	1	0	18.47	21.44	23.21	23.24	0.211
						25	0	100	0	17.66	18.09	20.89	20.92	0.124
	40528	2583.8	40645	2595.5	64QAM	1	24	1	0	18.26	21.52	23.20	23.23	0.210
						25	0	100	0	17.69	18.19	20.96	20.99	0.126
	41373	2668.3	41490	2680.0	64QAM	1	24	1	0	18.00	20.98	22.75	22.78	0.190
						25	0	100	0	17.63	17.82	20.74	20.77	0.119

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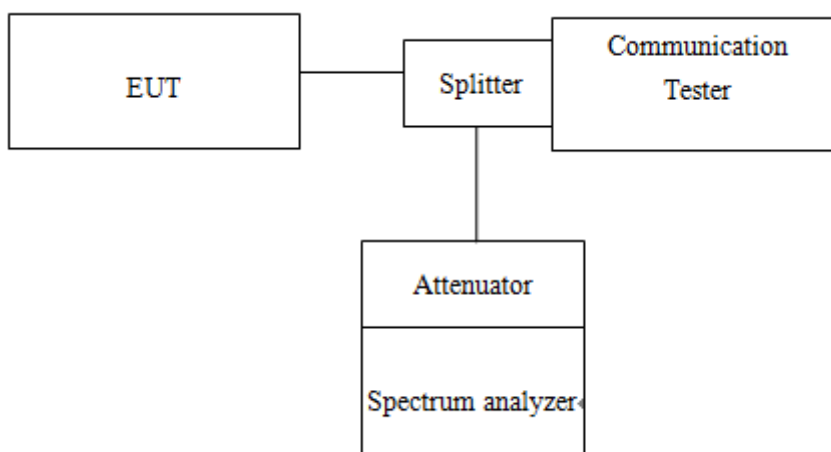


## 7 OCCUPIED BANDWIDTH MEASUREMENT

### 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

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	MT8821C	6261786084	01/20/2021	01/19/2022
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
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

## 7.5 Measurement Result

### LTE BAND 7

Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	99% BW (MHz)			26 dB BW (MHz)		
				QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 7	10MHz + 20MHz	50/0 + 100/0	2535.0	27.695	27.683	27.693	29.22	29.28	29.42
LTE BAND 7	20MHz + 10MHz	100/0 + 50/0	2535.0	27.792	27.710	27.668	29.45	29.34	29.38
LTE BAND 7	15MHz + 15MHz	75/0 + 75/0	2535.0	28.369	28.291	28.261	30.02	30	29.87
LTE BAND 7	15MHz + 20MHz	75/0 + 100/0	2535.0	32.598	32.621	32.512	34.43	34.4	34.29
LTE BAND 7	20MHz + 15MHz	100/0 + 75/0	2535.0	32.645	32.575	32.548	34.55	34.52	34.47
LTE BAND 7	20MHz + 20MHz	100/0 + 100/0	2535.0	37.608	37.537	37.5	51.83	43.63	39.66

### LTE BAND 38

Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	99% BW (MHz)			26 dB BW (MHz)		
				QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 38	15MHz + 15MHz	75/0 + 75/0	2595.0	28.402	28.378	28.343	33.77	31.66	33.51
LTE BAND 38	20MHz + 20MHz	100/0 + 100/0	2595.0	37.795	37.722	37.733	52.59	45.23	49.02

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## LTE BAND 41

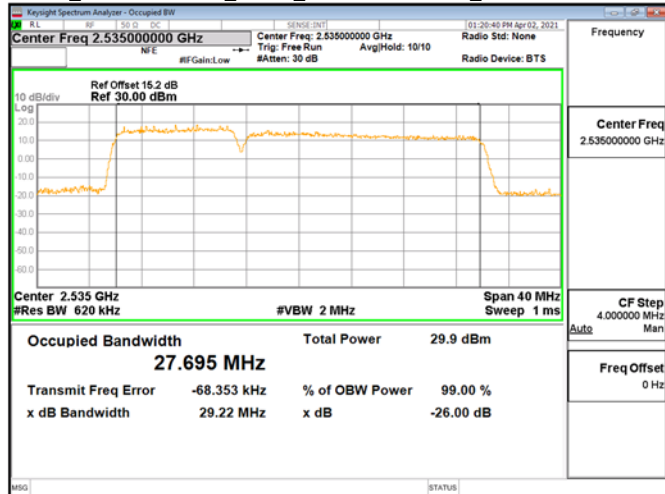
Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	99% BW (MHz)			26 dB BW (MHz)		
				QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 41	5MHz + 20MHz	25/0 + 100/0	2593.0	22.865	22.867	22.814	24.17	24.04	24
LTE BAND 41	20MHz + 5MHz	100/0 + 25/0	2593.0	22.906	22.955	22.89	24.15	23.99	24.19
LTE BAND 41	10MHz + 20MHz	50/0 + 100/0	2593.0	27.715	27.676	27.726	29.26	29.2	29.47
LTE BAND 41	20MHz + 10MHz	100/0 + 50/0	2593.0	27.777	27.820	27.801	29.37	29.39	29.27
LTE BAND 41	15MHz + 15MHz	75/0 + 75/0	2593.0	28.348	28.351	28.275	30.03	30.2	30.06
LTE BAND 41	15MHz + 20MHz	75/0 + 100/0	2593.0	32.602	32.697	32.418	34.44	34.55	34
LTE BAND 41	20MHz + 15MHz	100/0 + 75/0	2593.0	32.595	32.613	32.561	34.11	34.74	34.45
LTE BAND 41	20MHz + 20MHz	100/0 + 100/0	2593.0	37.544	37.527	37.556	39.74	39.71	39.73

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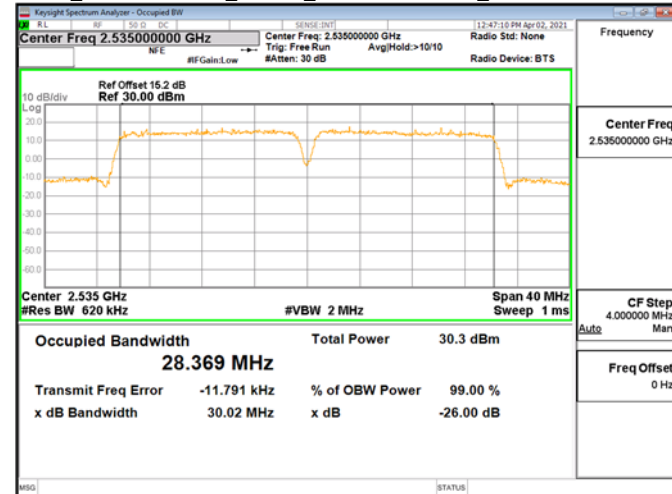
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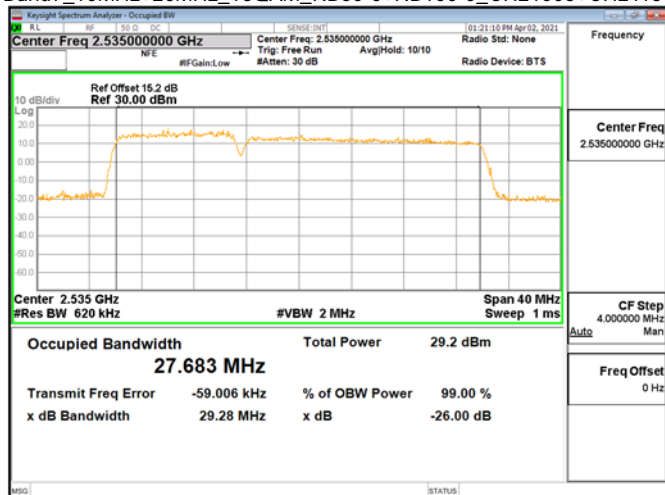
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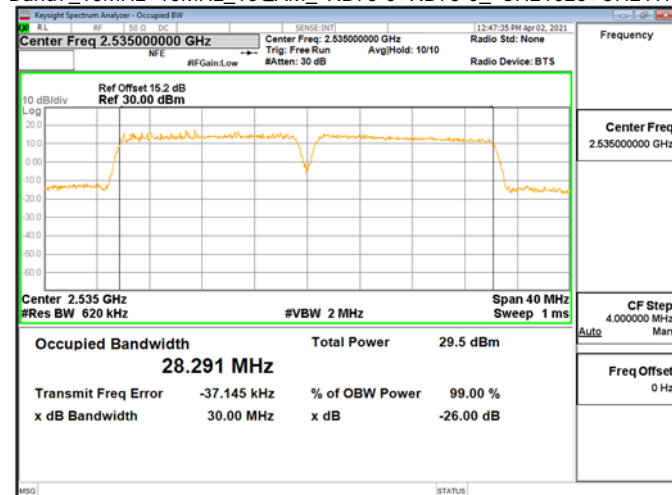
Band7\_15MHz+15MHz\_QPSK\_RB75-0+RB75-0\_CH21025+CH21175



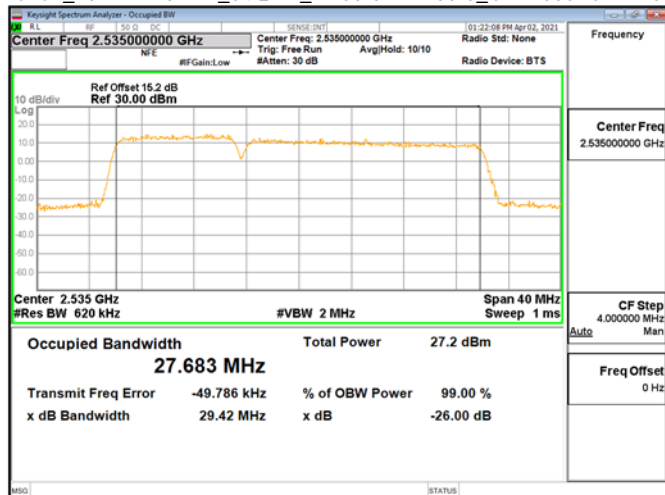
Band7\_10MHz+20MHz\_16QAM\_RB50-0+RB100-0\_CH21006+CH21150



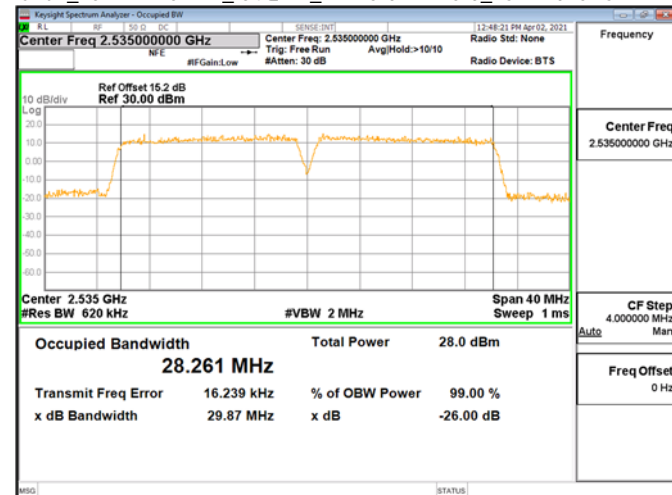
Band7\_15MHz+15MHz\_16QAM\_RB75-0+RB75-0\_CH21025+CH21175



Band7\_10MHz+20MHz\_64QAM\_RB50-0+RB100-0\_CH21006+CH21150



Band7\_15MHz+15MHz\_64QAM\_RB75-0+RB75-0\_CH21025+CH21175

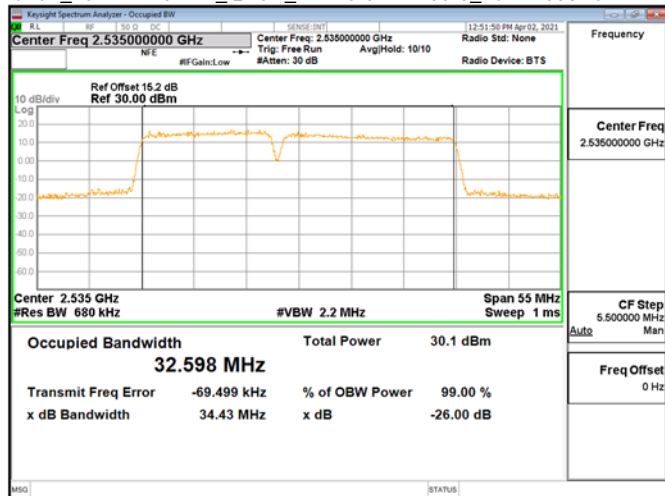


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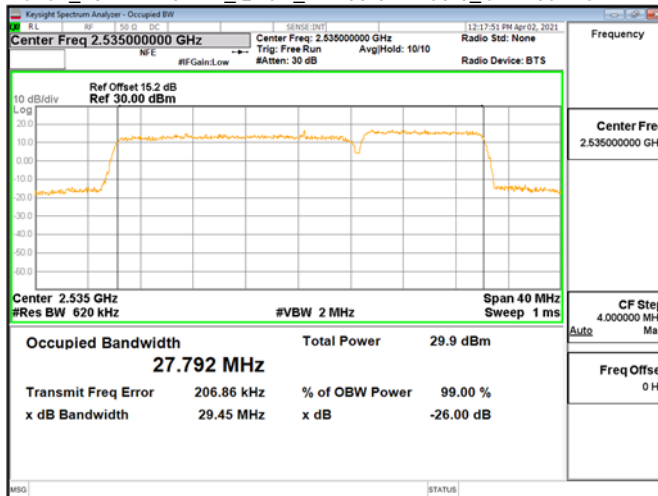
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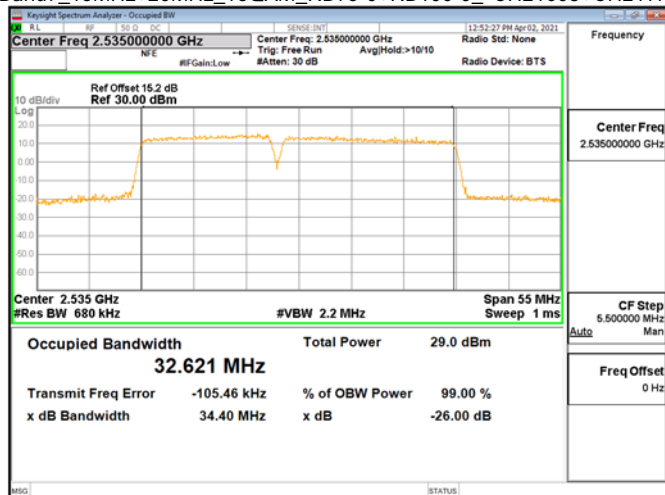
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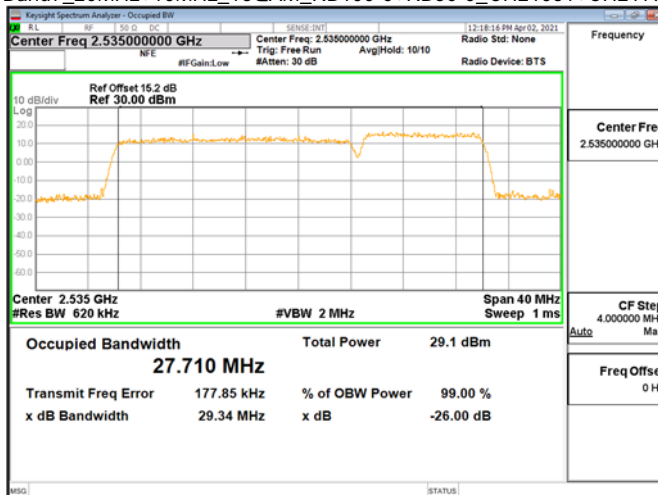
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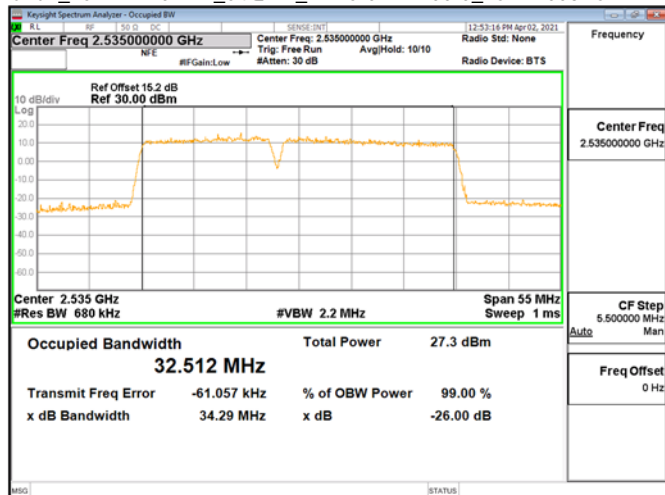
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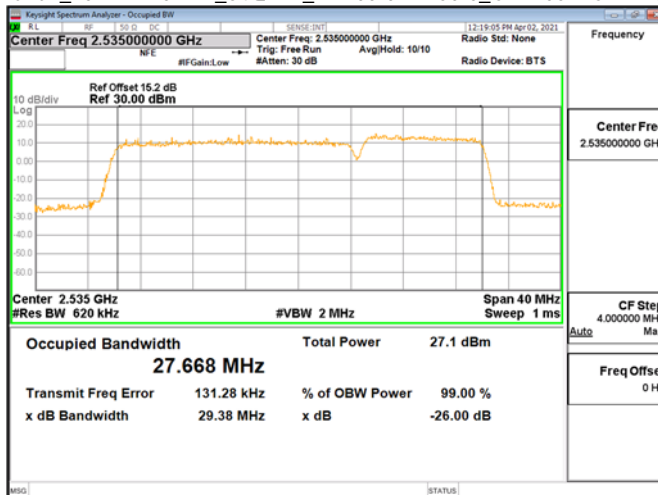
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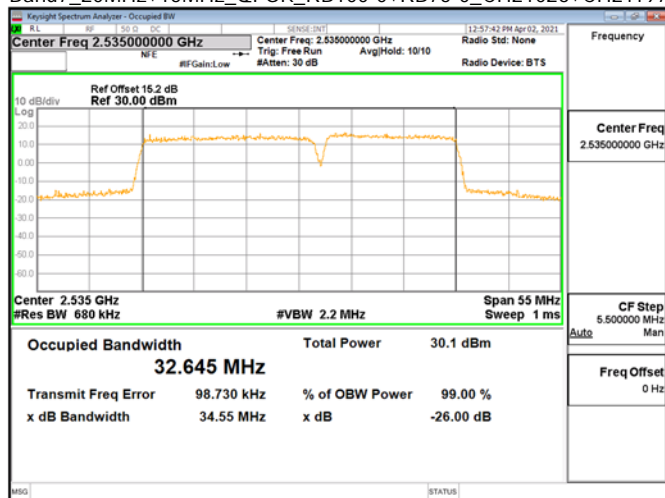
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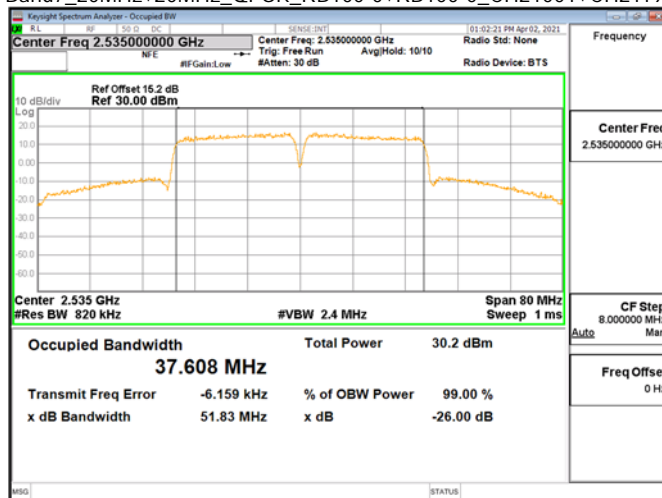
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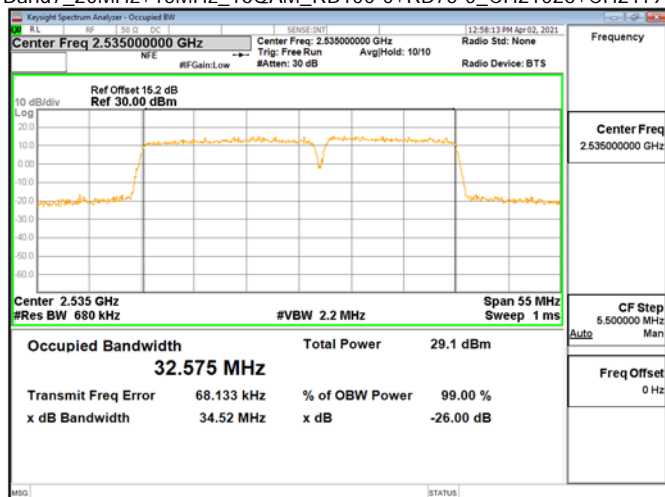
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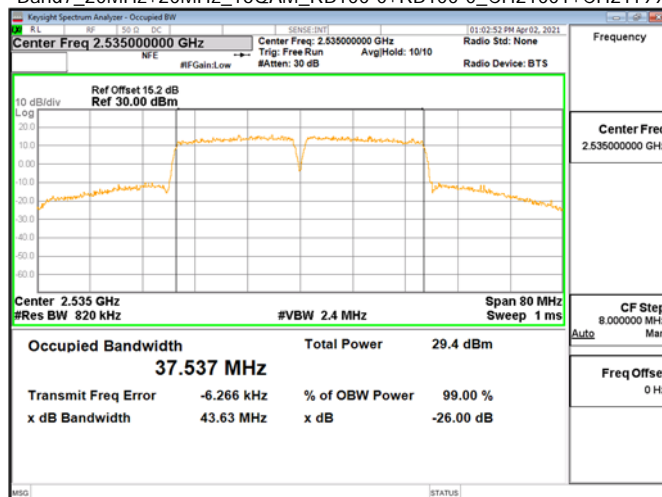
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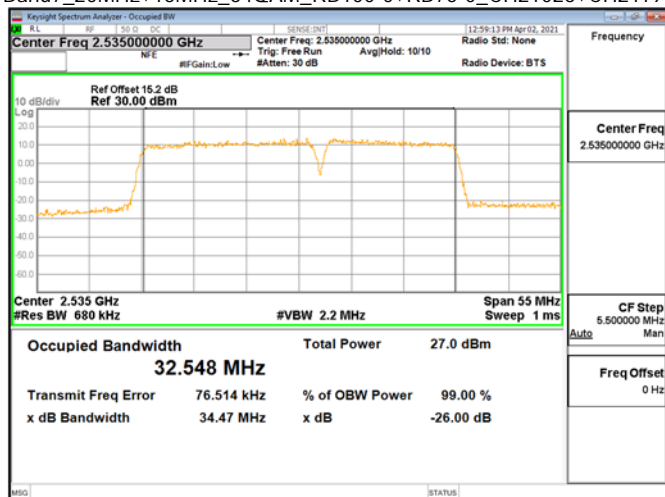
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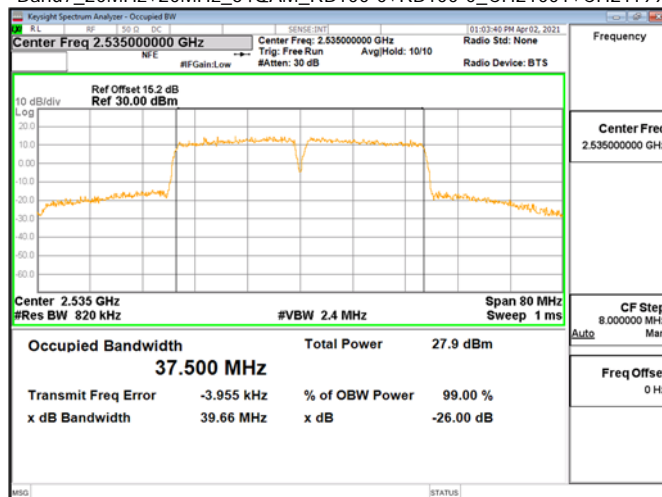
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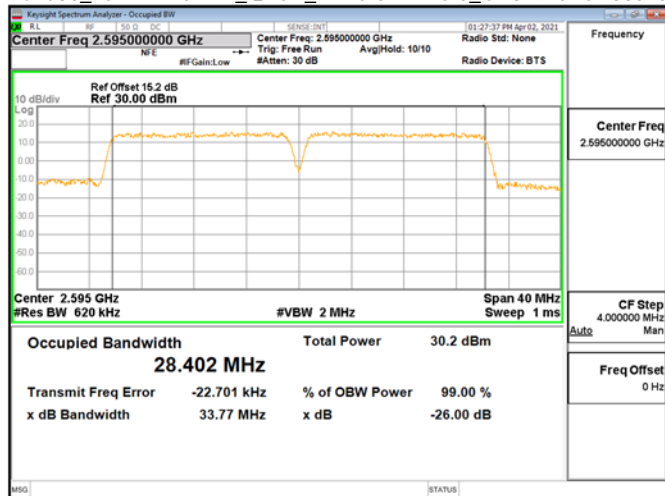


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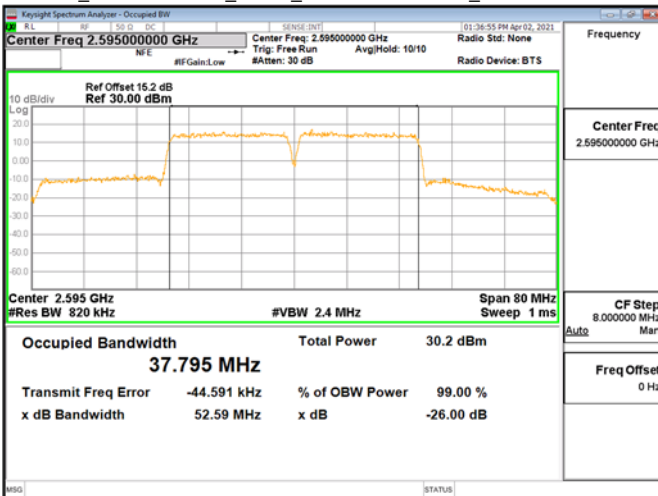
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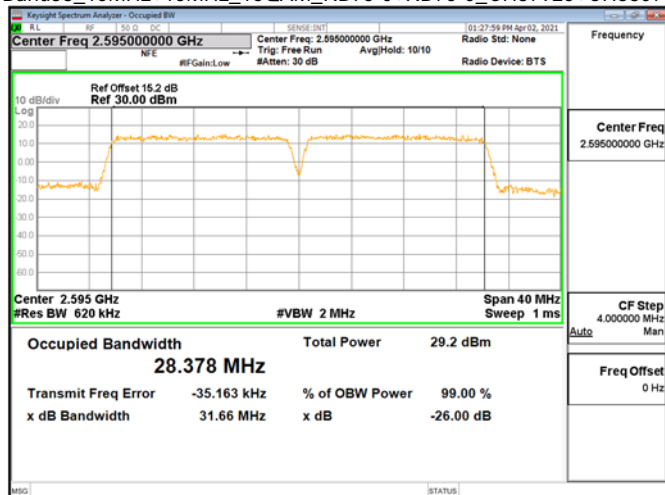
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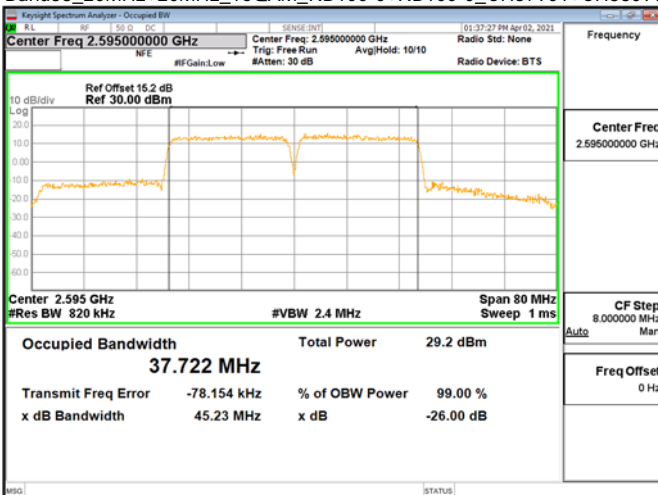
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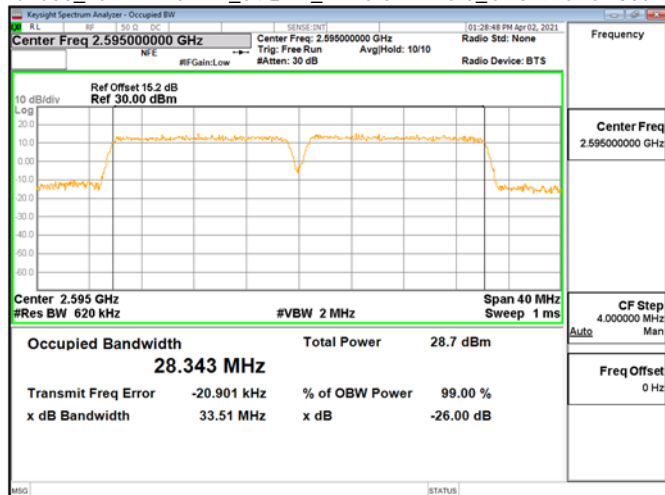
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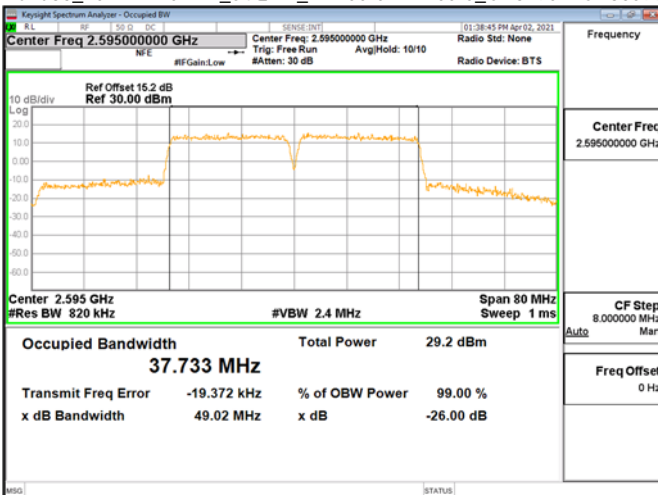
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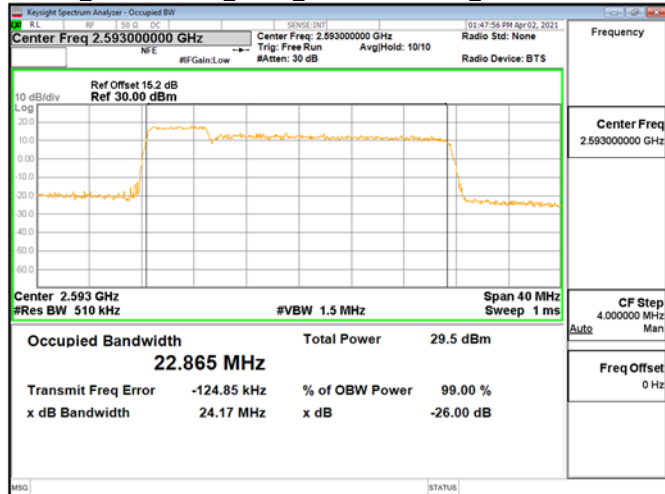


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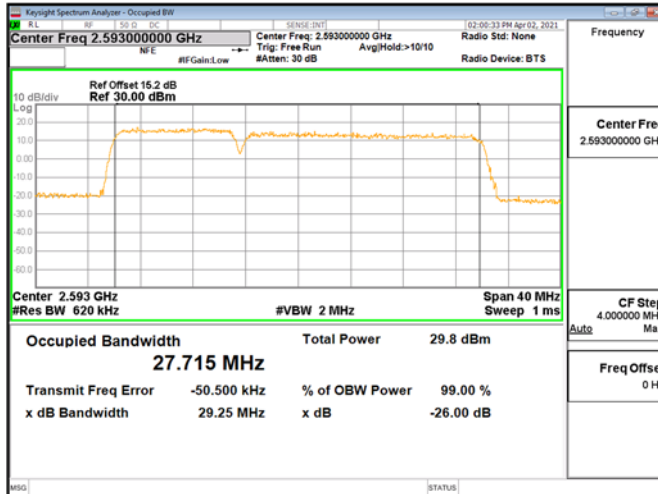
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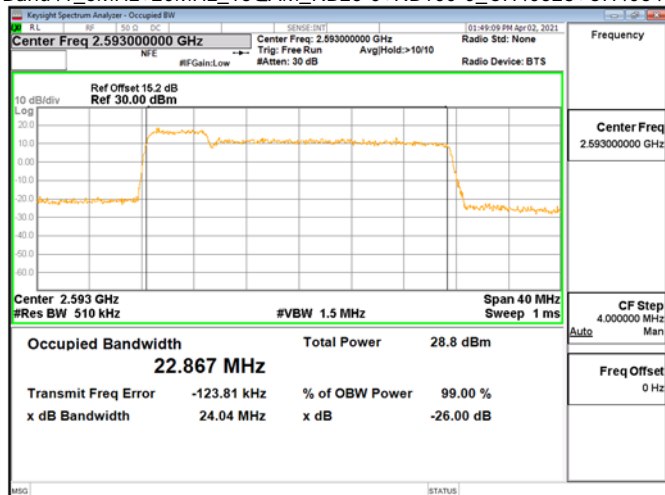
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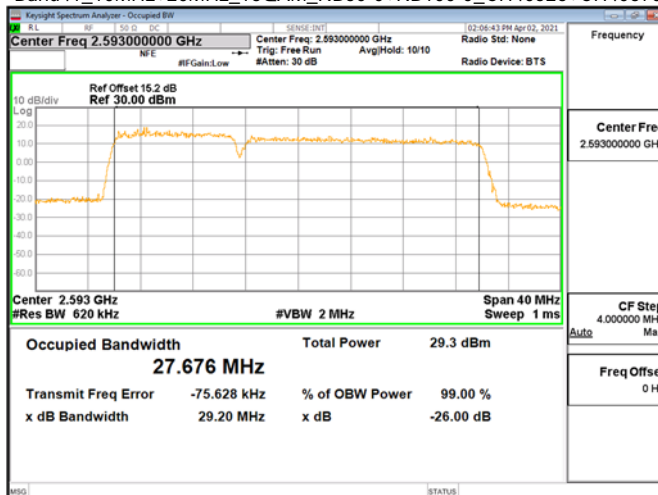
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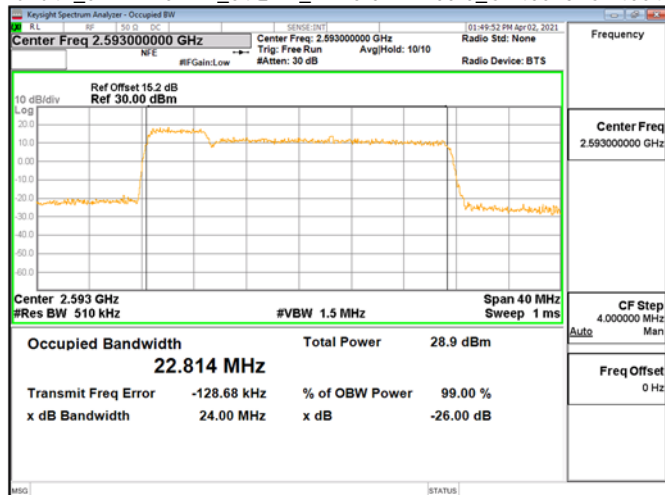
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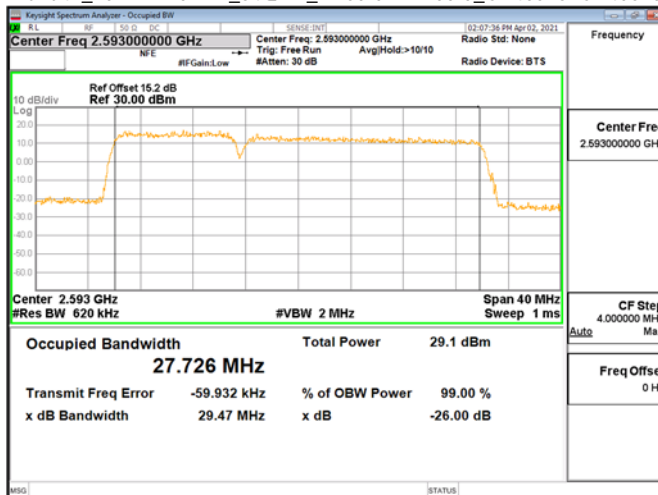
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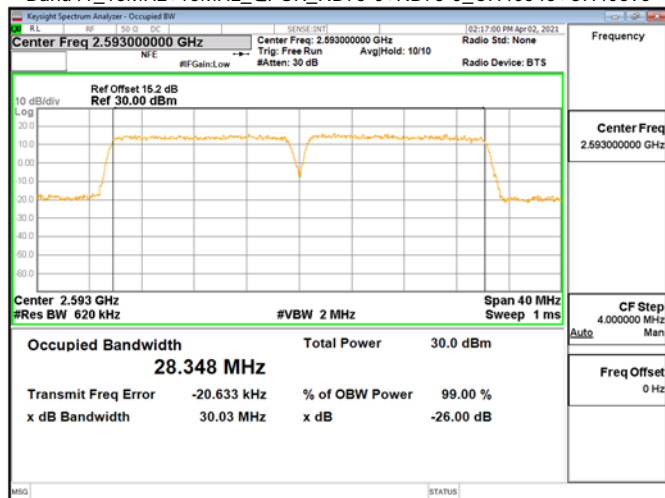
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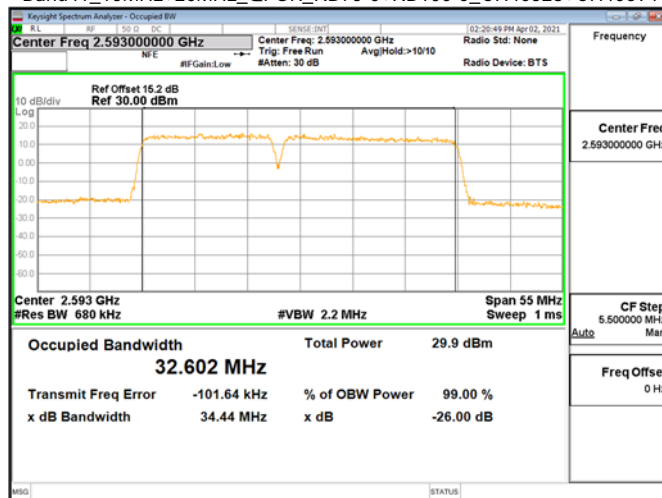
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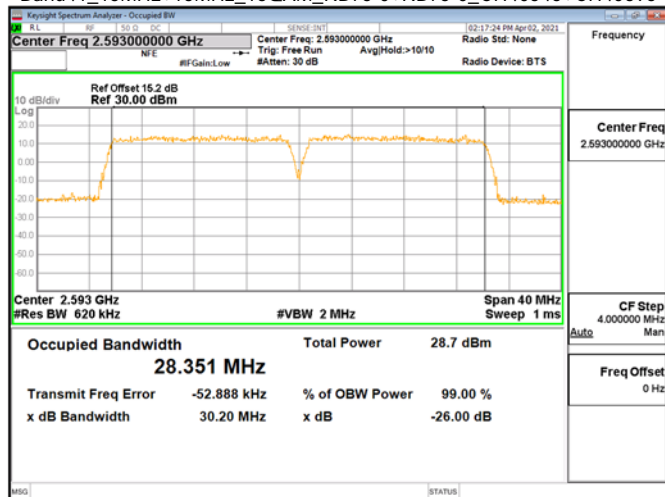
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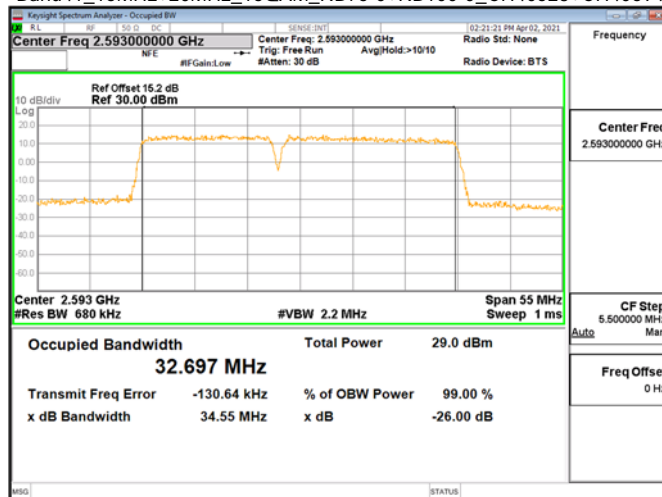
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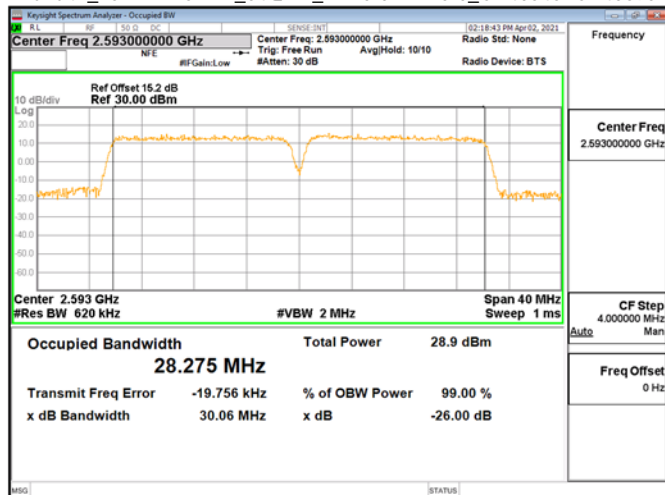
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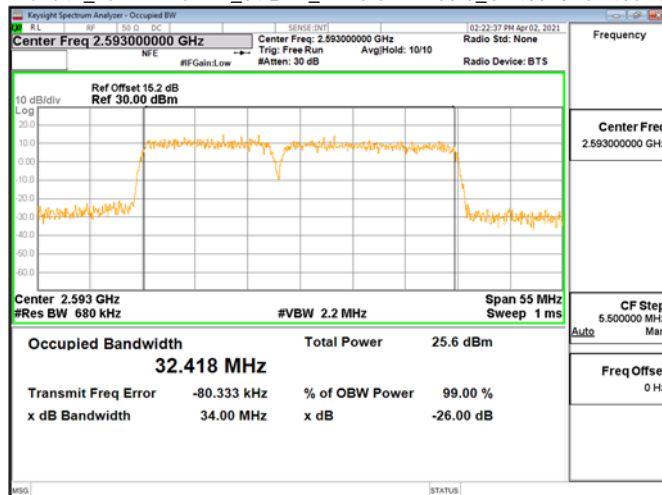
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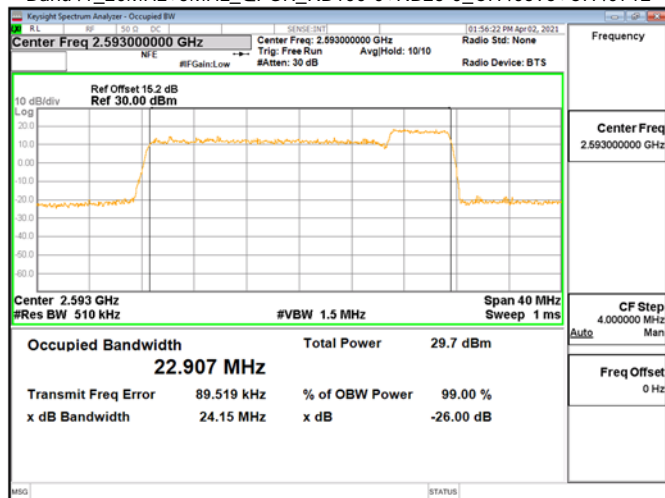


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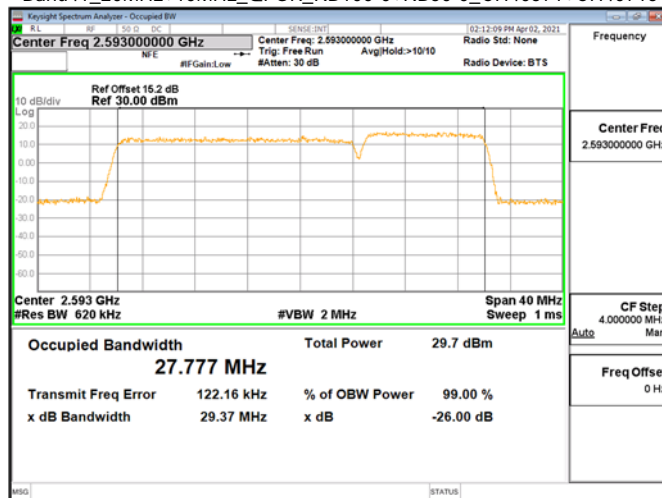
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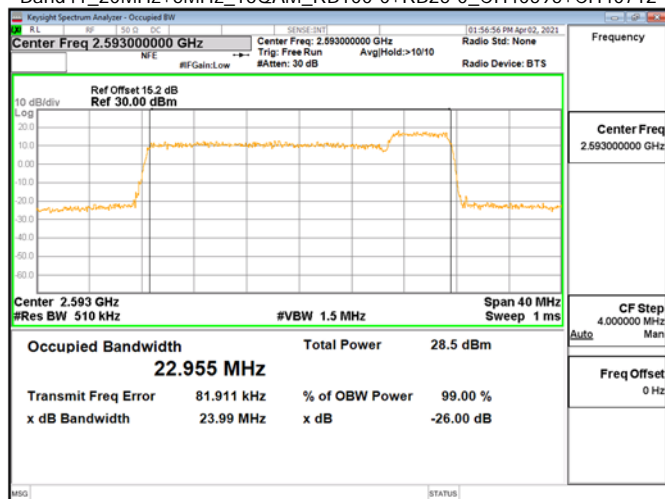
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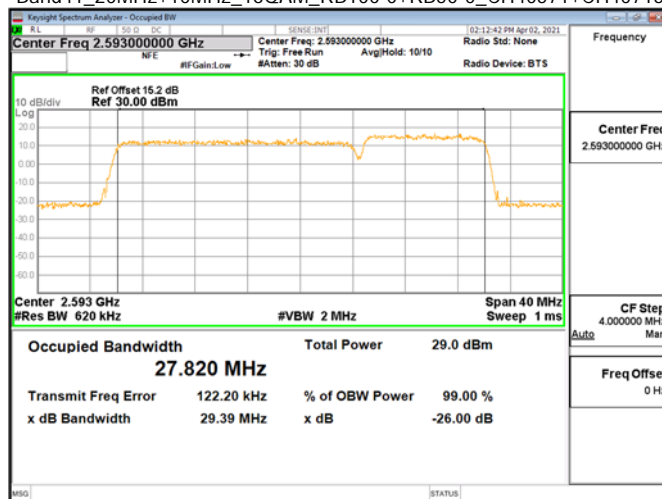
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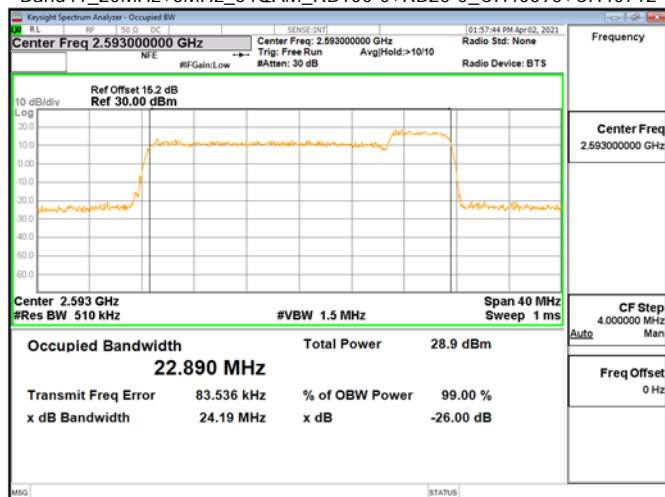
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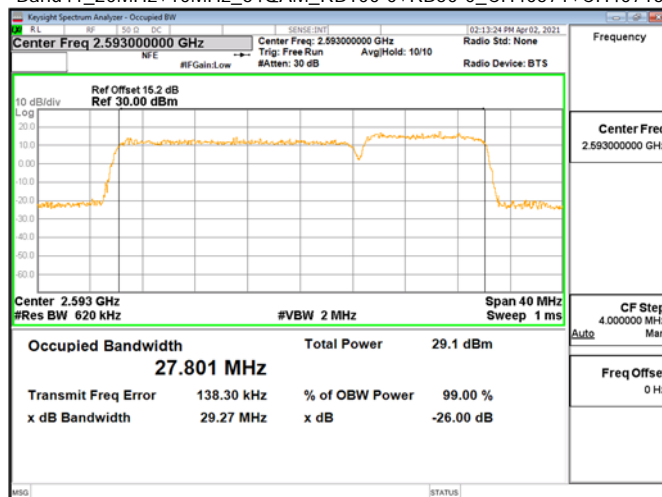
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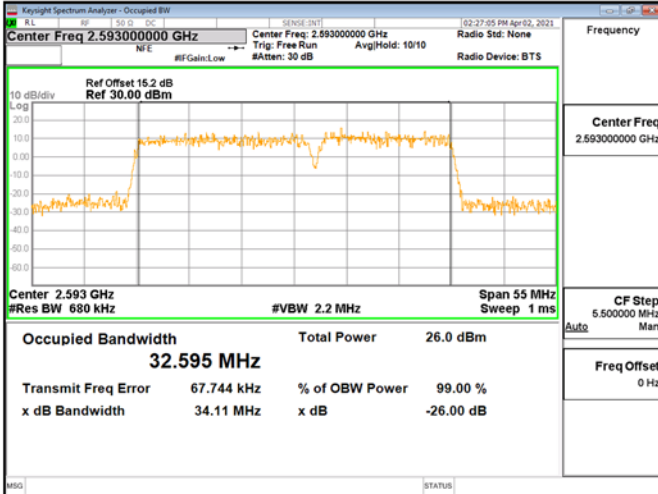


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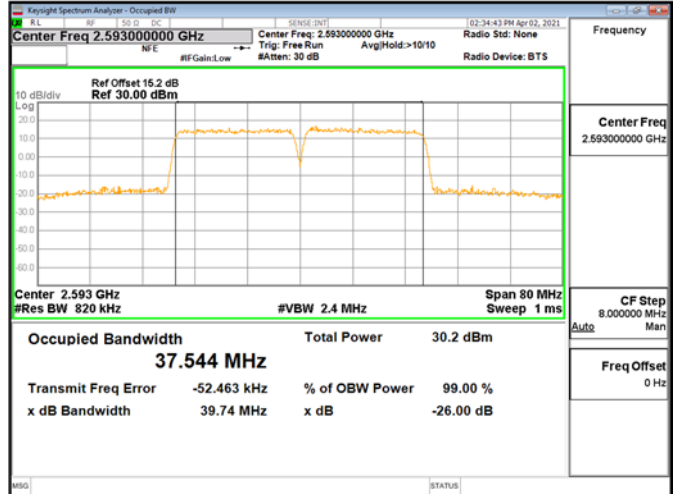
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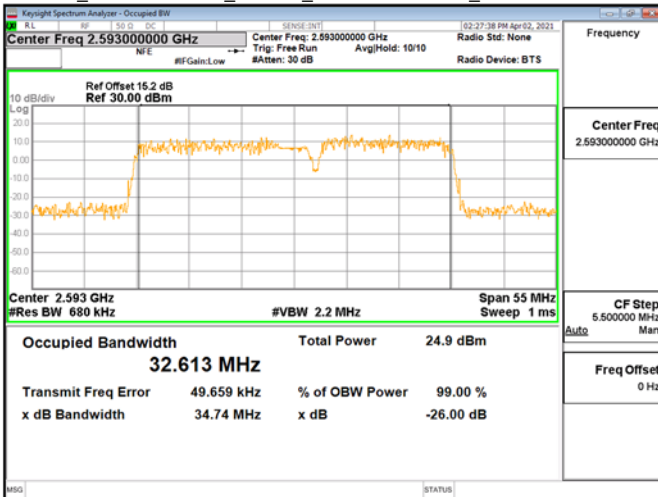
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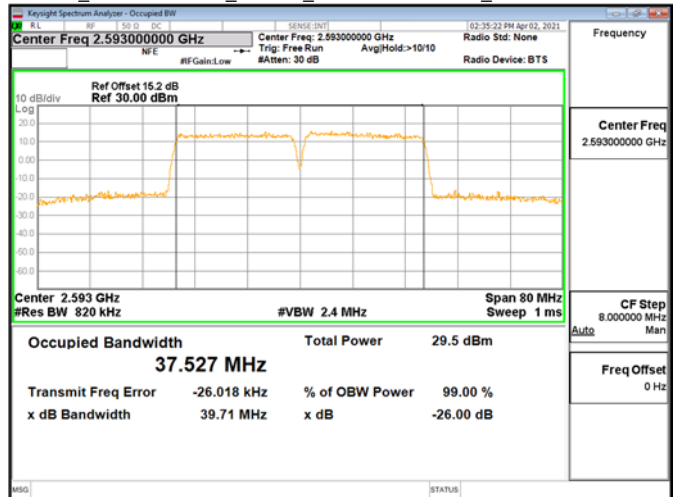
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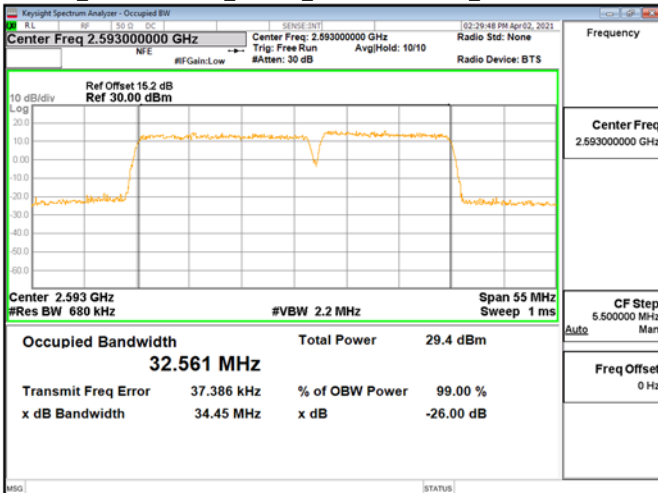
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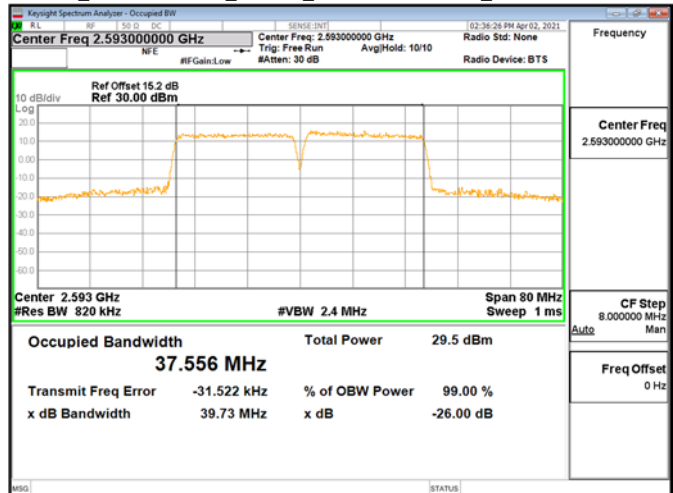
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Band41\_20MHz+20MHz\_64QAM\_RB100-0+RB100-0\_CH40521+CH40719



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## 8 OUT OF BAND EMISSION AT ANTENNA TERMINALS

### 8.1 Standard Applicable

#### FCC §27.53(h)

#### RSS-199 §4.5

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(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

#### RSS-199 §4.5

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least  $43 + 10 \log_{10} P$  for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

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$40 + 10 \log_{10} p$  from the channel edges to 5 MHz away

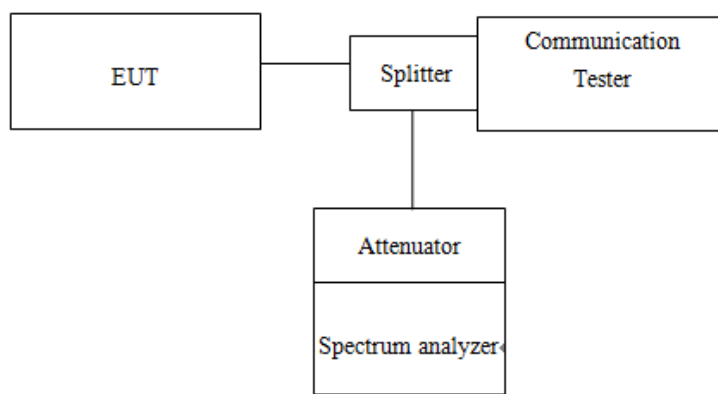
$43 + 10 \log_{10} p$  between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$  at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than  $43 + 10 \log_{10} p$  on all frequencies between 2490.5 MHz and 2496 MHz, and  $55 + 10 \log_{10} p$  at or below 2490.5 MHz.

In (a) and (b),  $p$  is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

## 8.2 Test SET-UP



## 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 or Mask

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.

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## 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	MT8821C	6261786084	01/20/2021	01/19/2022
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
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

## 8.5 Measurement Result:

Refer to next pages.

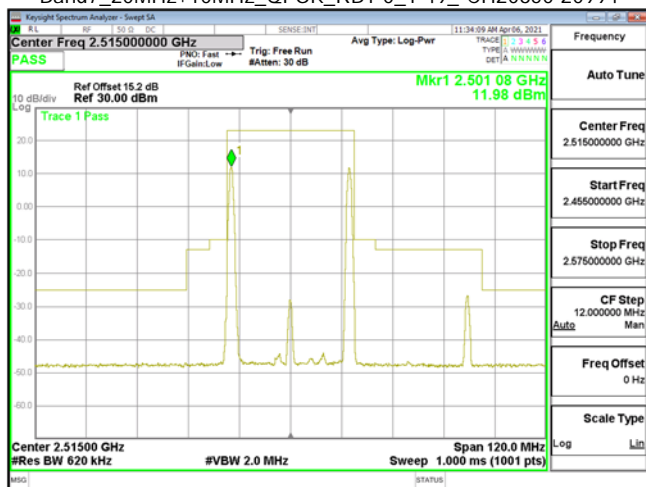
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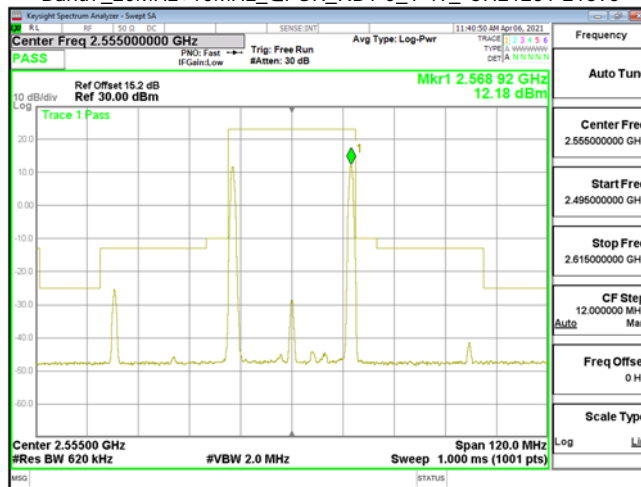
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## Emission Mask

Band7\_20MHz+10MHz\_QPSK\_RB1-0\_1-49\_CH20850-20994



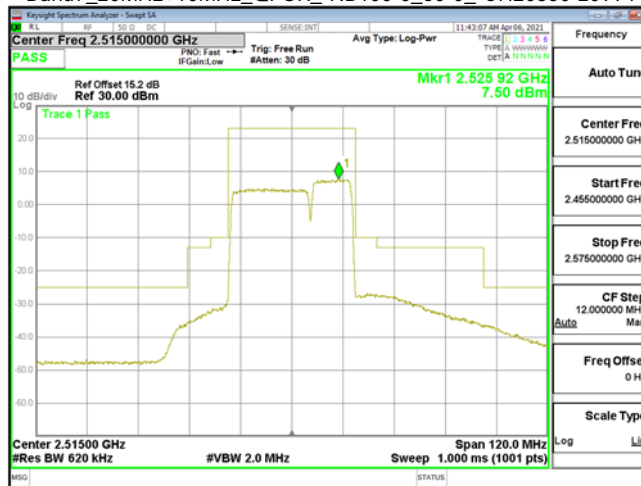
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Band7\_20MHz+10MHz\_QPSK\_RB1-0\_1-49\_CH21051-21195



Band7\_20MHz+10MHz\_QPSK\_RB100-0\_50-0\_CH20850-20994

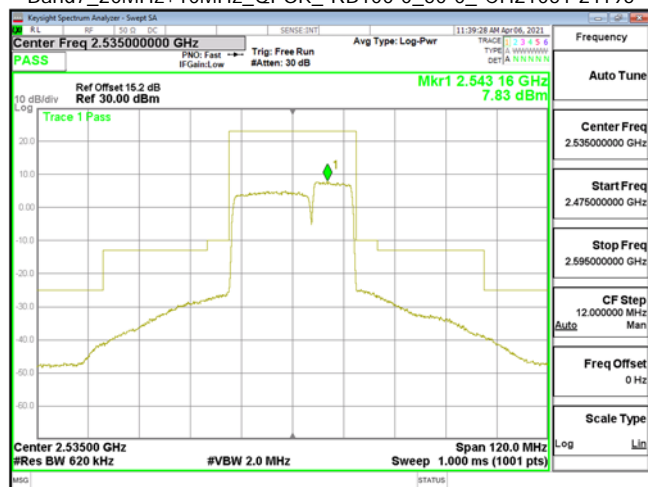


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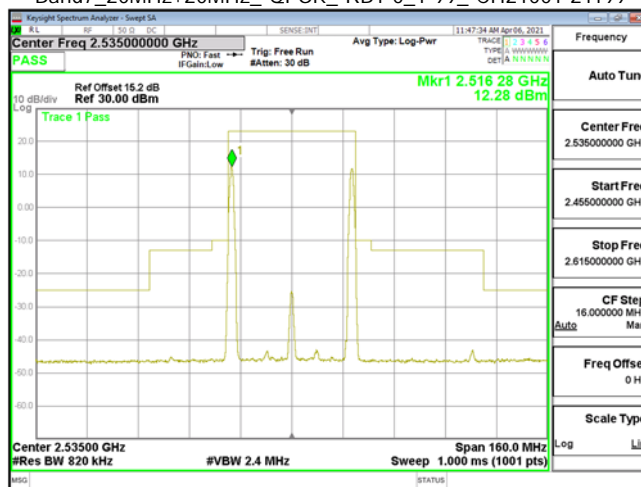
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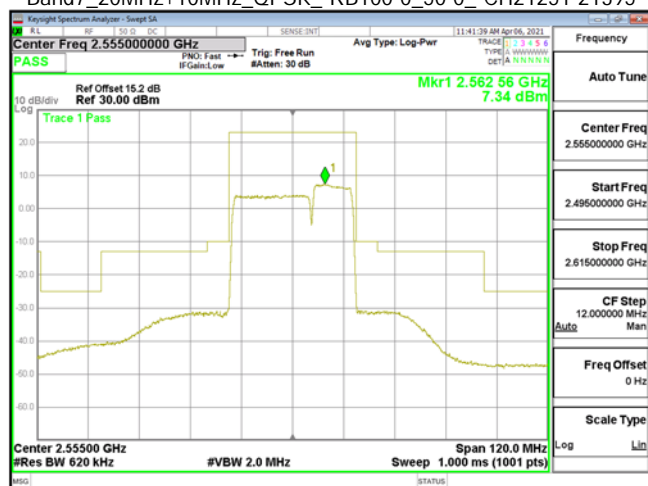
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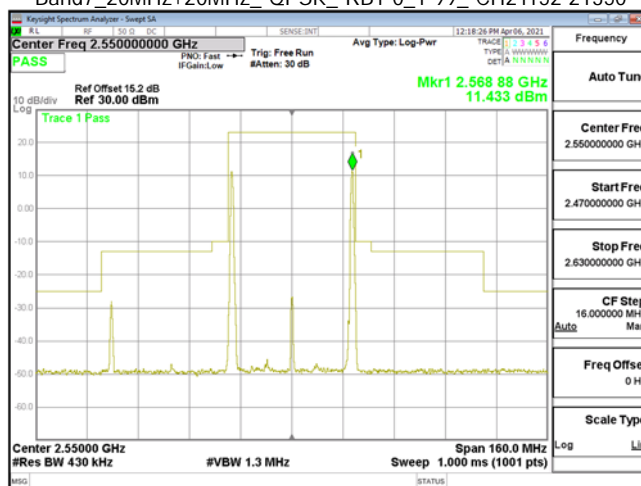
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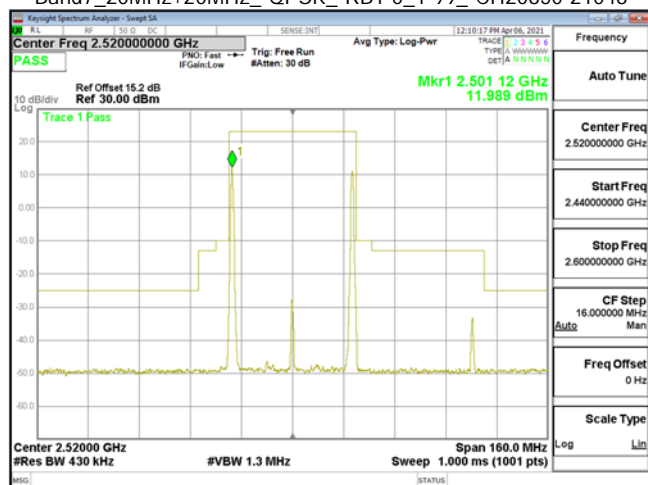
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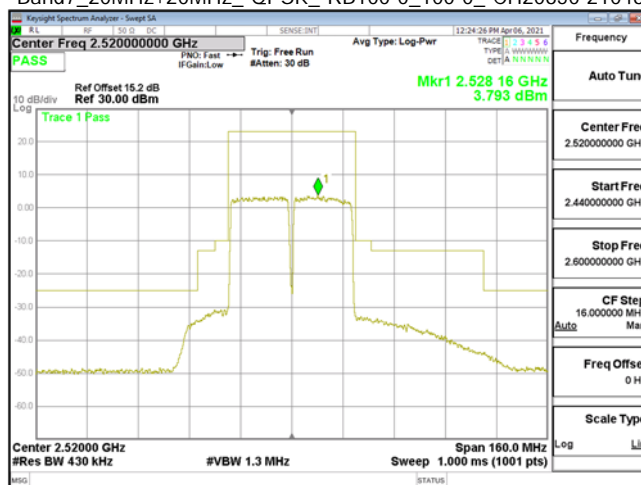
Band7\_20MHz+20MHz\_QPSK\_RB1-0\_1-99\_CH21152-21350



Band7\_20MHz+20MHz\_QPSK\_RB1-0\_1-99\_CH20850-21048



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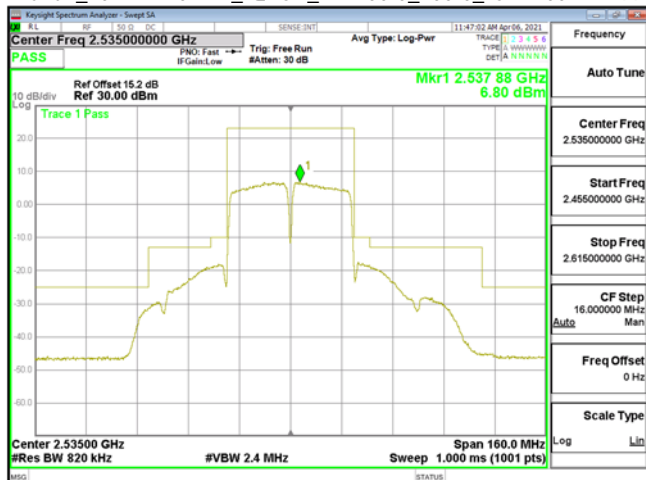
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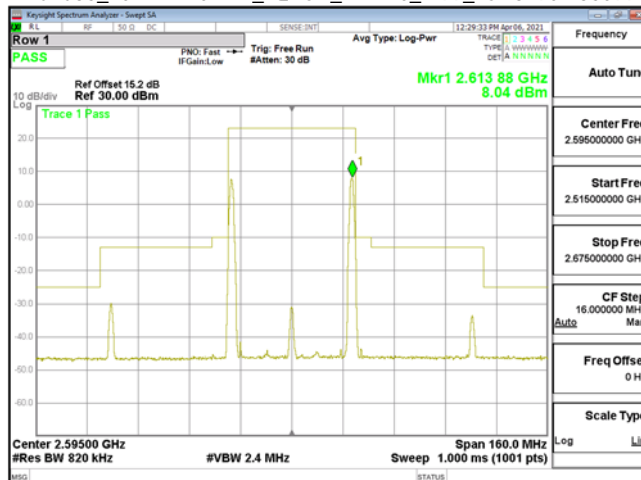
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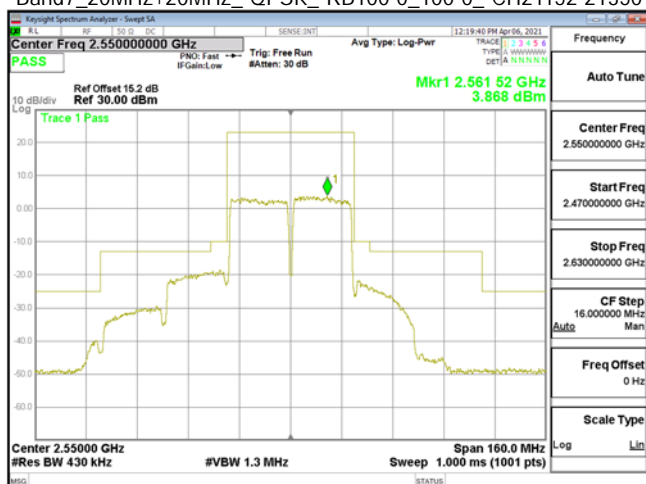
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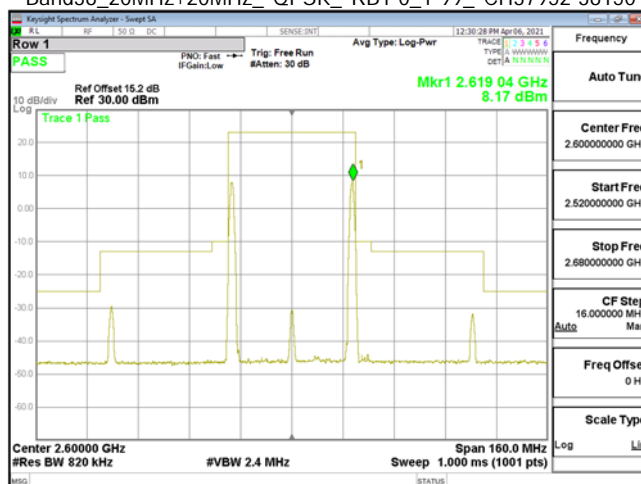
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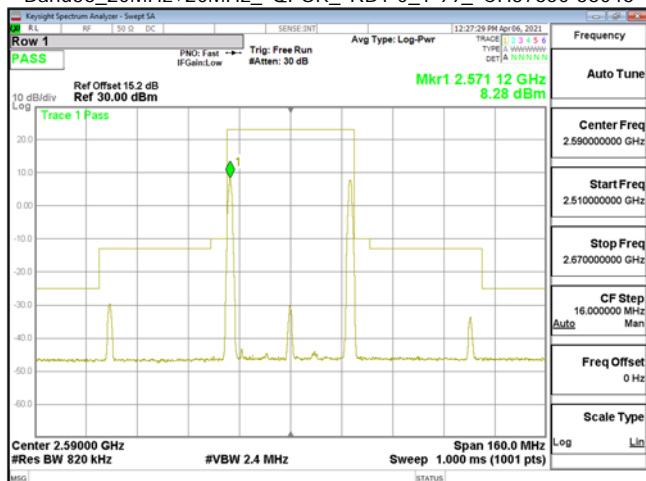
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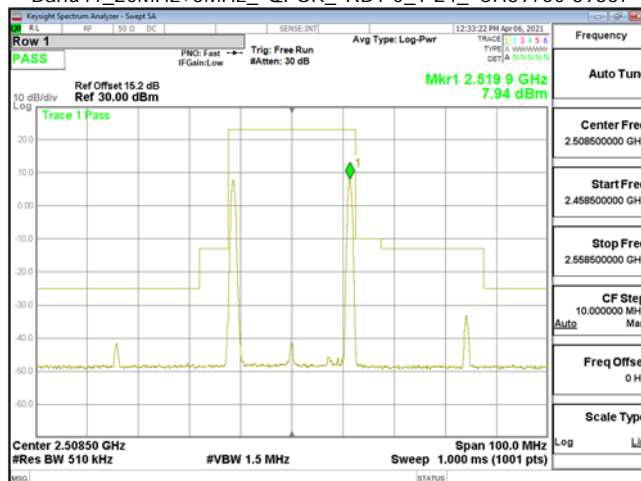
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Band41\_20MHz+5MHz\_QPSK\_RB1-0\_1-24\_CH39750-39867

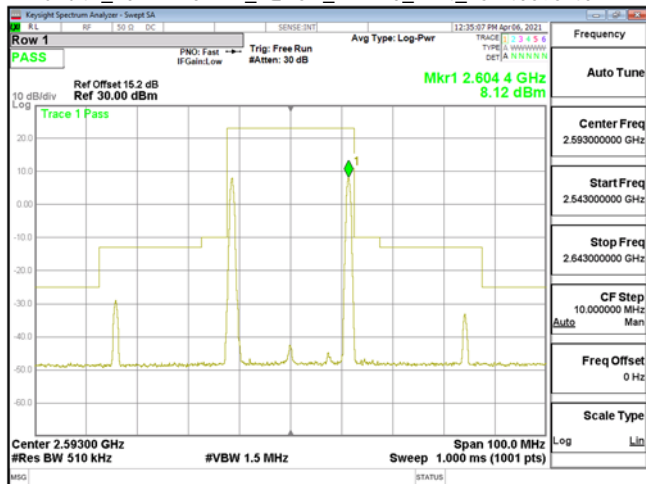


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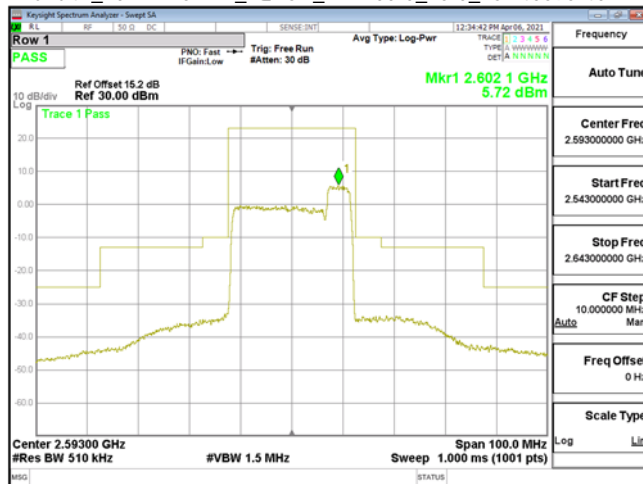
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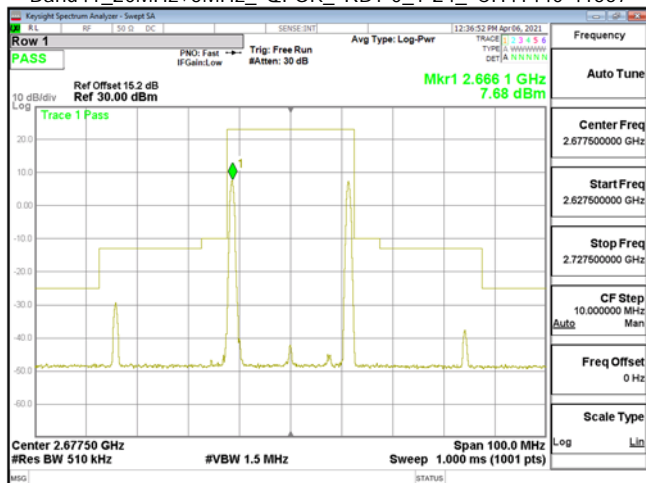
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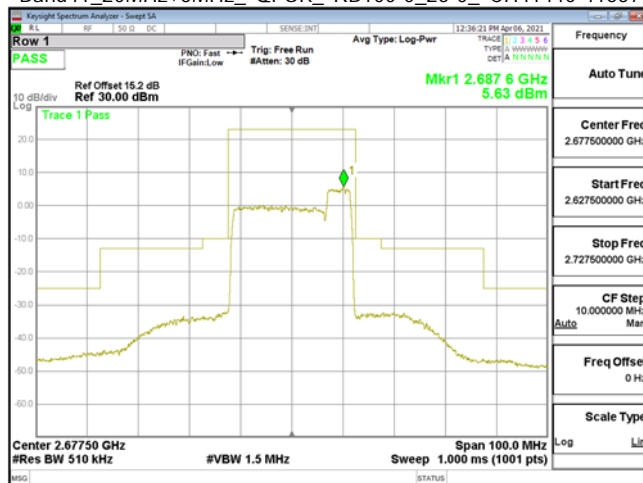
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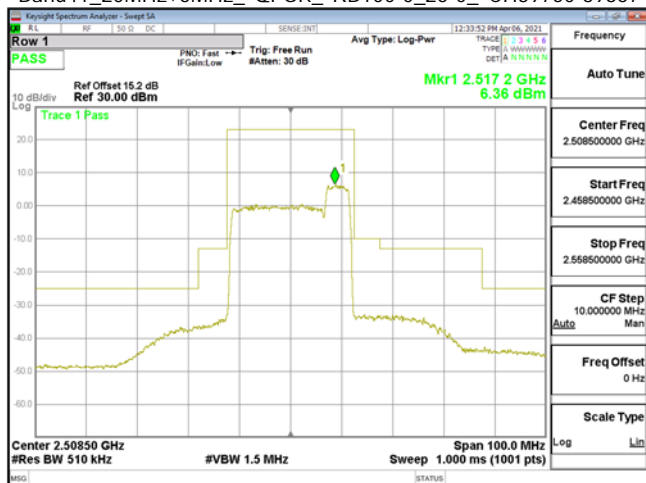
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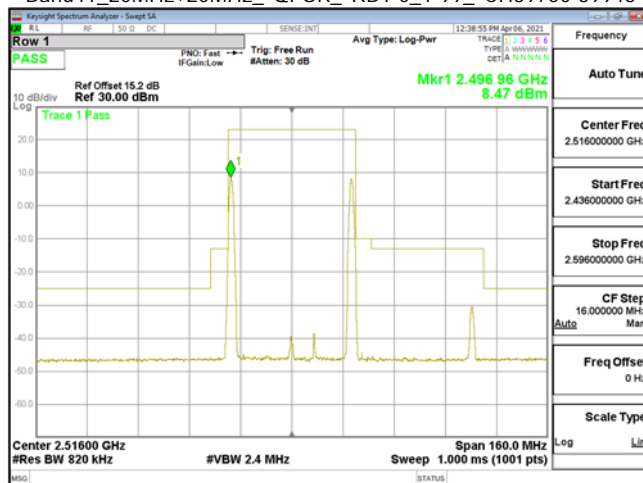
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Band41\_20MHz+20MHz\_QPSK\_RB1-0\_1-99\_CH39750-39948

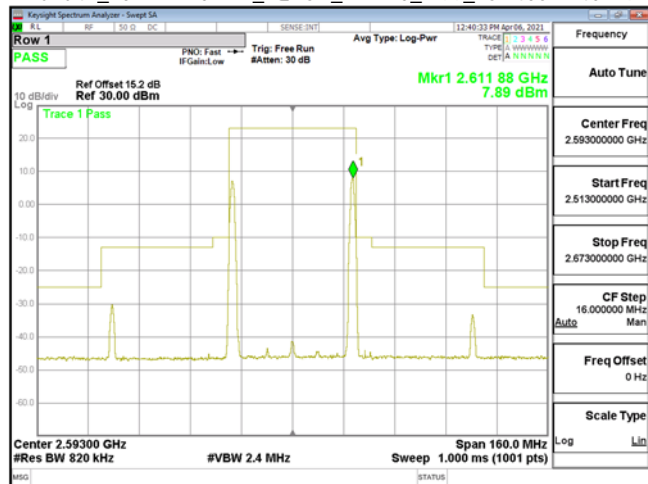


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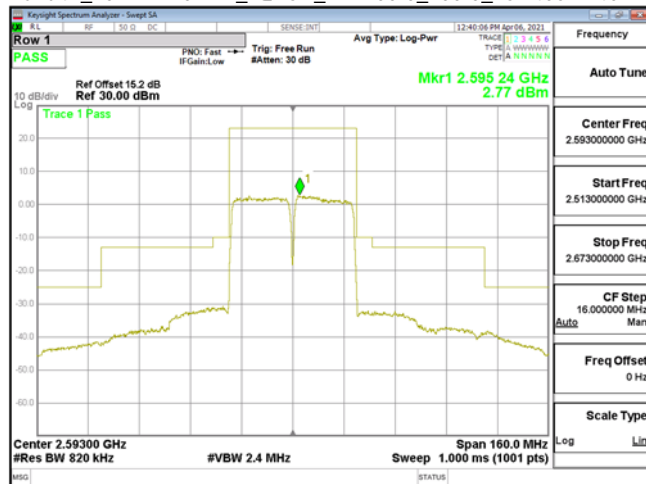
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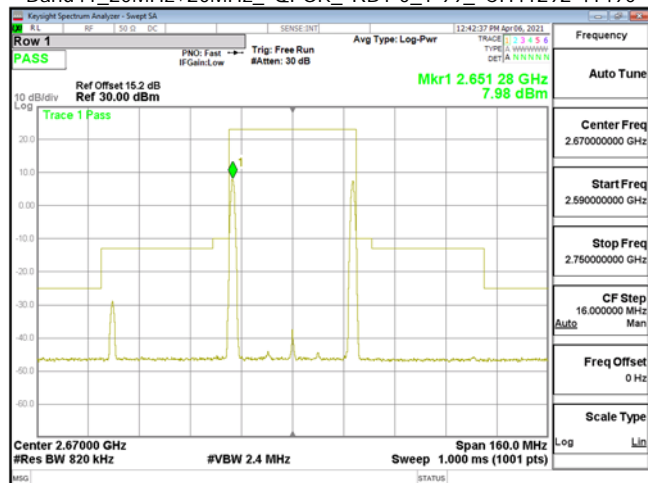
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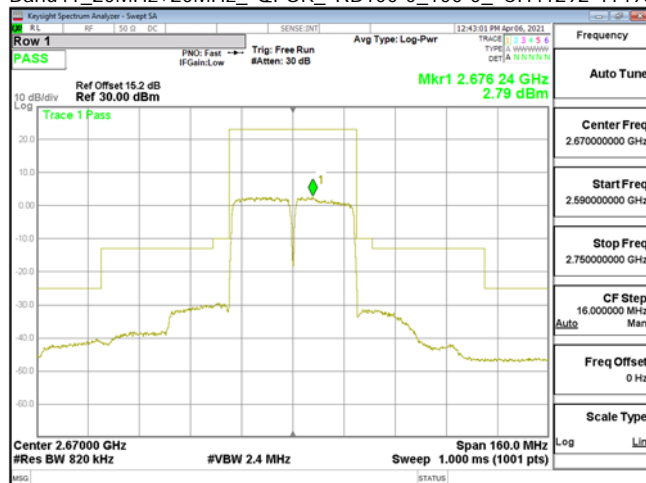
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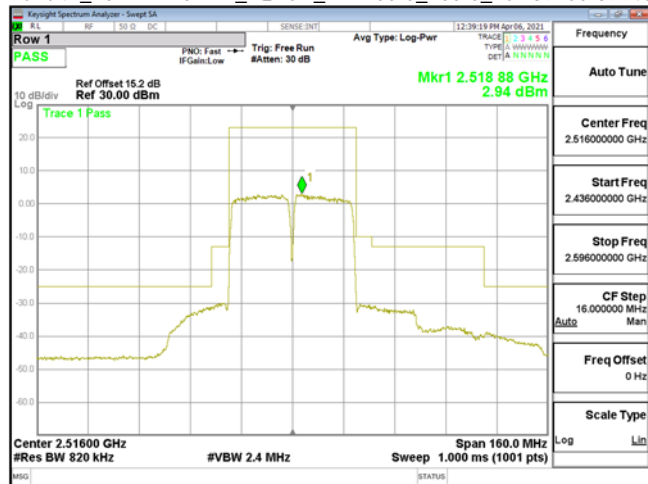
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Band41\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH41292-41490



Band41\_20MHz+20MHz\_QPSK\_RB100-0\_100-0\_CH39750-39948



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