

ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT

FCC Applicant: NEC Platforms,Ltd.
2-3, tsukasa-machi, kanda, chiyoda-ku, Tokyo, 101-8532,
Japan

FCC Manufacturer: NEC Platforms,Ltd.
2-3, tsukasa-machi, kanda, chiyoda-ku, Tokyo, 101-8532,
Japan

Product Name: Mobile Router

Brand Name: NEC Platforms

Model No.: KMP8S3AB1-1A, KMP8S3AA1-1A

Model Difference: N/A

Report Number: TERF2204000398E2

FCC ID 2AA5WKMP8S3AB

Issue Date: July 15, 2022

Date of Test: May 24, 2022~June 10, 2022

Date of EUT Received: April 21, 2022

Approved By

Jay Lin

We hereby certify that:

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

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

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

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2204000398E2	00	Original	June 17, 2022	Candice Li	*
TERF2204000398E2	01	Revise measurement result	July 15, 2022	Candice Li	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Mobile Router
Brand Name:	NEC Platforms
Model No.:	KMP8S3AB1-1A, KMP8S3AA1-1A
Model Difference:	N/A
Hardware Version:	1
Firmware Version:	1
EUT Series No.:	359798890030510
Power Supply:	3.8Vdc
Test Software (Name/Version)	default(link 8821C)

1.2 Operation Frequency Range

LTE Band 41C	
BW (MHz)	Operation Frequency (MHz)
25	2508.5 - 2677.5
30	2511.0 - 2675.0
35	2513.5 - 2672.5
40	2516.0 - 2670.0

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1.3 Antenna Designation

Antenna Type	Antenna Model No.
Inverted L	Ant3
Note: Transmission frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
		Ant3
LTE-Band 41	2496 ~ 2690	-0.2

Note: Antenna information is provided by the applicant.

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
41C	25	QPSK	22.42	EIRP	0.175	22.9010	22M9G7D
		16QAM	22.32	EIRP	0.171	22.9340	22M9D7W
		64QAM	21.03	EIRP	0.127	22.8640	22M9D7W
41C	30	QPSK	24.31	EIRP	0.270	28.3400	28M3D7W
		16QAM	24.30	EIRP	0.269	28.4190	28M4D7W
		64QAM	21.89	EIRP	0.155	28.3110	28M3D7W
41C	35	QPSK	22.44	EIRP	0.175	32.6160	32M6D7W
		16QAM	22.13	EIRP	0.163	32.7190	32M7D7W
		64QAM	19.72	EIRP	0.094	32.6630	32M7D7W
41C	40	QPSK	22.28	EIRP	0.169	37.5270	37M5D7W
		16QAM	22.04	EIRP	0.160	37.6610	37M7D7W
		64QAM	19.63	EIRP	0.092	37.5920	37M6D7W

1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 27C.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

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1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
Note: Test site name is remarked on the equipment list in each section of this report as an indica- tion 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*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
MB(2GHz - 3GHz)	5.1	10	15.1

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2.5 Final Amplifier Voltage and Current Information:

LTE CA Band 41C

Test mode	DC voltage (V)	DC current (mA)
LTE CA Band 41C 20M+20M QPSK	3.8	585

2.6 Test Configuration

Conducted Setup

Radiated Setup



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

2.7 Control Unit(s)

Radiated Emission Test Site: SAC G

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Lapo	WT-02CA	4712966931002	N/A	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§27.50(h)(2)	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §27.53(m)(4)(6)	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask re- quirements	Compliant
§2.1053 §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant
§27.50(a)(1)(B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §27.54	Frequency Stability	Compliant

4 DESCRIPTION OF TEST MODES

4.1 The Test Channel Details

This device supports with carrier aggregation (two carrier) uplink. Intra-Band contiguous and Inter-Band non-contiguous specification as below:

E-UTRA Intra-Band CA configuration / Bandwidth combination set		
E-UTRA CA configuration	Component carriers in order of in-creasing carrier frequency Channel bandwidth for PCC and SCC [MHz]	Maximum ag-gregated band-width [MHz]
CA_41C	5+20 / 20+5	25
	10+20 / 20+10 / 15+15	30
	15+20 / 20+15	35
	20+20	40

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4.2 The Worst-Case Test Modes and Details

1. This EUT is UE LTE 4G 1Tx/3Rx device for single carrier that can support uplink Band 41. For operation of uplink carrier aggregation (CA) mode, the transmitter enabled by 1Tx/3Rx mode.

Downlink CA	Uplink CA
41C-42A	41C
41D	41C
3A-41C-42A	41C
28A-41C-42A	41C
41C-42C	41C
3A-41C-42C	41C

2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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	10	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 Frequency	41C	v	v	v				v	v	v	v	v	v	v				v	v
	41C		v								v	v							v
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #					
		L	M	H	10	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 Peak-to-Average Ratio	41C		v					v	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	10	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	41C	y		y				y	y	y	y	y			y				y

Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #					
		L	M	H	10	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	41C	v	v	v				v	v	v	v	v						v	
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation			RB #					
		L	M	H	10	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	41C	v	v	v				v			v							v	

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.68 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.57 dB	9kHz~30MHz
	+/-	4.85 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.57 dB	9kHz~30MHz
	+/-	4.37 dB	30MHz - 1000MHz
	+/-	4.45 dB	1GHz - 18GHz
	+/-	4.24 dB	18GHz - 40GHz

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

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6 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Gwinstek	SPS-3610	GEV856769	08/04/2021	08/03/2022
Radio Communication Analyzer	Anritsu	MT8821C	6262044670	08/18/2021	08/17/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Temperature Chamber	TERCHY	MHK-120LK	1020582	07/01/2021	06/30/2022
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF158	11/18/2021	11/17/2022
Coaxial Cables	Woken	00100A1F1A185C	RF71	11/18/2021	11/17/2022
Splitter	Woken	DOM35LW1A2	RF255	11/18/2021	11/17/2022

6.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/16/2021	12/15/2022
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/08/2022	04/07/2023
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2021	07/12/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2022	03/14/2023
Attenuator	Marvelous	MVE2213-10	RF05	11/18/2021	11/17/2022
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216 、 210217 、 210218	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219 、 210220 、 210221	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224 、 210306	03/15/2022	03/14/2023

NOTE: N.C.R refers to Not Calibrated Required.

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7 MAXIMUM OUTPUT POWER

7.1 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.

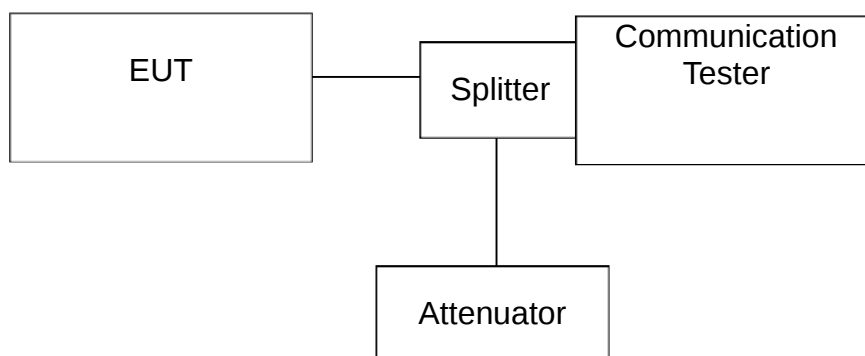
7.1.1 ERP/EIRP LIMIT

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.

7.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

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7.3 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.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/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.

7.4 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)), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);

P_T = transmitter output power, expressed in dBW, dBm, or PSD;

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

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

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7.5 LTE Measurement Results:

7.5.1 Intra-Band

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.2

OUTPUT POWER FOR LTE BAND 41C (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	(dBm)	(W)
5MHz+ 20MHz	39683	2499.3	39800	2511.0	QPSK	1	24	1	0	15.01	15.24	18.14	17.94	0.062
						25	0	100	0	20.62	13.96	21.47	21.27	0.134
	40528	2583.8	40645	2595.5	QPSK	1	24	1	0	14.74	15.11	17.94	17.74	0.059
						25	0	100	0	20.78	14.49	21.70	21.50	0.141
	41373	2668.3	41490	2680.0	QPSK	1	24	1	0	14.70	15.02	17.87	17.67	0.059
						25	0	100	0	20.57	13.87	21.41	21.21	0.132
5MHz+ 20MHz	39683	2499.3	39800	2511.0	16QAM	1	24	1	0	14.75	14.96	17.87	17.67	0.058
						25	0	100	0	19.75	12.87	20.56	20.36	0.109
	40528	2583.8	40645	2595.5	16QAM	1	24	1	0	14.11	14.51	17.32	17.12	0.052
						25	0	100	0	19.83	13.37	20.71	20.51	0.113
	41373	2668.3	41490	2680.0	16QAM	1	24	1	0	14.11	14.44	17.29	17.09	0.051
						25	0	100	0	20.51	13.64	21.32	21.12	0.129
5MHz+ 20MHz	39683	2499.3	39800	2511.0	64QAM	1	24	1	0	14.12	14.53	17.34	17.14	0.052
						25	0	100	0	19.58	12.87	20.42	20.22	0.105
	40528	2583.8	40645	2595.5	64QAM	1	24	1	0	14.15	14.42	17.30	17.10	0.051
						25	0	100	0	19.80	13.21	20.66	20.46	0.111
	41373	2668.3	41490	2680.0	64QAM	1	24	1	0	14.08	14.32	17.21	17.01	0.050
						25	0	100	0	20.42	13.51	21.23	21.03	0.127

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.2

OUTPUT POWER FOR LTE BAND 41C (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	(dBm)	(W)
10MHz+ 20MHz	39705	2501.5	39849	2515.9	QPSK	1	49	1	0	22.37	20.41	24.51	24.31	0.270
						50	0	100	0	20.61	11.26	21.09	20.89	0.123
	40526	2583.6	40670	2598.0	QPSK	1	49	1	0	22.33	20.46	24.51	24.31	0.269
						50	0	100	0	20.73	11.78	21.25	21.05	0.127
	41346	2665.6	41490	2680.0	QPSK	1	49	1	0	22.32	20.48	24.51	24.31	0.270
						50	0	100	0	20.72	11.54	21.22	21.02	0.126
10MHz+ 20MHz	39705	2501.5	39849	2515.9	16QAM	1	49	1	0	22.08	20.43	24.34	24.14	0.260
						50	0	100	0	19.71	10.33	20.18	19.98	0.100
	40526	2583.6	40670	2598.0	16QAM	1	49	1	0	22.19	20.66	24.50	24.30	0.269
						50	0	100	0	19.75	10.68	20.26	20.06	0.101
	41346	2665.6	41490	2680.0	16QAM	1	49	1	0	22.25	20.54	24.49	24.29	0.268
						50	0	100	0	19.75	10.53	20.34	20.14	0.103
10MHz+ 20MHz	39705	2501.5	39849	2515.9	64QAM	1	49	1	0	19.58	18.05	21.89	21.69	0.148
						50	0	100	0	19.60	10.34	20.09	19.89	0.097
	40526	2583.6	40670	2598.0	64QAM	1	49	1	0	19.83	18.18	22.09	21.89	0.155
						50	0	100	0	19.72	10.73	20.24	20.04	0.101
	41346	2665.6	41490	2680.0	64QAM	1	49	1	0	19.73	18.06	21.99	21.79	0.151
						50	0	100	0	19.79	10.61	20.29	20.09	0.102

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.2

OUTPUT POWER FOR LTE BAND 41C (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	(dBm)	(W)
15MHz+ 15MHz	39725	2503.5	39875	2518.5	QPSK	1	74	1	0	22.36	12.42	22.78	22.58	0.181
						75	0	75	0	20.38	10.63	20.82	20.62	0.115
	40545	2585.5	40695	2600.5	QPSK	1	74	1	0	22.27	12.31	22.69	22.49	0.177
						75	0	75	0	20.37	10.88	20.83	20.63	0.116
	41365	2667.5	41515	2682.5	QPSK	1	74	1	0	22.12	12.18	22.54	22.34	0.171
						75	0	75	0	20.38	10.71	20.82	20.62	0.115
15MHz+ 15MHz	39725	2503.5	39875	2518.5	16QAM	1	74	1	0	21.95	11.61	22.33	22.13	0.163
						75	0	75	0	19.47	9.77	19.91	19.71	0.094
	40545	2585.5	40695	2600.5	16QAM	1	74	1	0	22.06	11.72	22.44	22.24	0.168
						75	0	75	0	19.45	10.12	19.93	19.73	0.094
	41365	2667.5	41515	2682.5	16QAM	1	74	1	0	21.97	11.54	22.35	22.15	0.164
						75	0	75	0	19.45	9.82	19.90	19.70	0.093
15MHz+ 15MHz	39725	2503.5	39875	2518.5	64QAM	1	74	1	0	19.60	9.15	19.97	19.77	0.095
						75	0	75	0	19.41	9.73	19.85	19.65	0.092
	40545	2585.5	40695	2600.5	64QAM	1	74	1	0	19.69	9.25	20.07	19.87	0.097
						75	0	75	0	19.36	9.95	19.83	19.63	0.092
	41365	2667.5	41515	2682.5	64QAM	1	74	1	0	19.61	9.07	19.98	19.78	0.095
						75	0	75	0	19.41	9.68	19.85	19.65	0.092

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.2

OUTPUT POWER FOR LTE BAND 41C (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	(dBm)	(W)
15MHz+ 20MHz	39728	2503.8	39899	2520.9	QPSK	1	74	1	0	22.24	12.08	22.64	22.44	0.175
						75	0	100	0	20.22	10.69	20.68	20.48	0.112
	40523	2583.3	40694	2600.4	QPSK	1	74	1	0	22.11	12.08	22.52	22.32	0.171
						75	0	100	0	20.36	10.85	20.82	20.62	0.115
	41319	2662.9	41490	2680.0	QPSK	1	74	1	0	22.14	12.05	22.55	22.35	0.172
						75	0	100	0	20.26	10.63	20.71	20.51	0.112
15MHz+ 20MHz	39728	2503.8	39899	2520.9	16QAM	1	74	1	0	21.87	11.37	22.24	22.04	0.160
						75	0	100	0	19.24	9.80	19.71	19.51	0.089
	40523	2583.3	40694	2600.4	16QAM	1	74	1	0	21.96	11.47	22.33	22.13	0.163
						75	0	100	0	19.31	9.96	19.79	19.59	0.091
	41319	2662.9	41490	2680.0	16QAM	1	74	1	0	21.87	11.37	22.24	22.04	0.160
						75	0	100	0	19.34	9.71	19.79	19.59	0.091
15MHz+ 20MHz	39728	2503.8	39899	2520.9	64QAM	1	74	1	0	19.50	8.88	19.86	19.66	0.092
						75	0	100	0	19.23	9.77	19.70	19.50	0.089
	40523	2583.3	40694	2600.4	64QAM	1	74	1	0	19.56	8.87	19.92	19.72	0.094
						75	0	100	0	19.32	9.82	19.78	19.58	0.091
	41319	2662.9	41490	2680.0	64QAM	1	74	1	0	19.53	8.87	19.89	19.69	0.093
						75	0	100	0	19.24	9.69	19.70	19.50	0.089

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.2

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

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+ 5MHz	39750	2506.0	39867	2517.7	QPSK	1	99	1	0	20.15	19.00	22.62	22.42	0.175
						100	0	25	0	20.71	10.83	21.13	20.93	0.124
	40595	2590.5	40712	2602.2	QPSK	1	99	1	0	20.07	18.91	22.54	22.34	0.171
						100	0	25	0	20.88	11.18	21.32	21.12	0.129
	41440	2675.0	41557	2686.7	QPSK	1	99	1	0	19.88	18.76	22.37	22.17	0.165
						100	0	25	0	20.98	10.83	21.38	21.18	0.131
20MHz+ 5MHz	39750	2506.0	39867	2517.7	16QAM	1	99	1	0	20.05	18.90	22.52	22.32	0.171
						100	0	25	0	19.94	9.98	20.36	20.16	0.104
	40595	2590.5	40712	2602.2	16QAM	1	99	1	0	20.01	18.82	22.47	22.27	0.168
						100	0	25	0	19.99	10.23	20.43	20.23	0.105
	41440	2675.0	41557	2686.7	16QAM	1	99	1	0	19.85	18.71	22.33	22.13	0.163
						100	0	25	0	19.95	9.88	20.36	20.16	0.104
20MHz+ 5MHz	39750	2506.0	39867	2517.7	64QAM	1	99	1	0	18.00	17.12	20.59	20.39	0.109
						100	0	25	0	19.84	9.94	20.26	20.06	0.101
	40595	2590.5	40712	2602.2	64QAM	1	99	1	0	17.56	16.68	20.15	19.95	0.099
						100	0	25	0	19.84	10.17	20.28	20.08	0.102
	41440	2675.0	41557	2686.7	64QAM	1	99	1	0	17.62	16.52	20.12	19.92	0.098
						100	0	25	0	19.94	9.87	20.35	20.15	0.103

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.2

OUTPUT POWER FOR LTE BAND 41C (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	39750	2506.0	39894	2520.4	QPSK	1	99	1	0	22.74	12.44	23.13	22.93	0.196
						100	0	50	0	20.68	10.99	21.12	20.92	0.124
	40571	2588.1	40715	2602.5	QPSK	1	99	1	0	22.65	13.42	23.14	22.94	0.197
						100	0	50	0	20.76	11.21	21.22	21.02	0.126
	41391	2670.1	41535	2684.5	QPSK	1	99	1	0	22.70	12.43	23.09	22.89	0.195
						100	0	50	0	20.86	10.93	21.28	21.08	0.128
20MHz+ 10MHz	39750	2506.0	39894	2520.4	16QAM	1	99	1	0	22.37	11.67	22.72	22.52	0.179
						100	0	50	0	19.72	10.12	20.17	19.97	0.099
	40571	2588.1	40715	2602.5	16QAM	1	99	1	0	22.52	11.81	22.87	22.67	0.185
						100	0	50	0	19.87	10.25	20.32	20.12	0.103
	41391	2670.1	41535	2684.5	16QAM	1	99	1	0	22.45	11.78	22.81	22.61	0.182
						100	0	50	0	19.89	10.02	20.32	20.12	0.103
20MHz+ 10MHz	39750	2506.0	39894	2520.4	64QAM	1	99	1	0	19.97	9.24	20.32	20.12	0.103
						100	0	50	0	19.70	10.01	20.14	19.94	0.099
	40571	2588.1	40715	2602.5	64QAM	1	99	1	0	20.20	9.34	20.54	20.34	0.108
						100	0	50	0	19.71	10.32	20.18	19.98	0.100
	41391	2670.1	41535	2684.5	64QAM	1	99	1	0	20.07	9.26	20.42	20.22	0.105
						100	0	50	0	19.81	10.01	20.24	20.04	0.101

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Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.2

OUTPUT POWER FOR LTE BAND 41C (20MHz + 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)
20MHz+15MHz	39750	2506.0	39921	2523.1	QPSK	1	99	1	0	22.08	12.27	22.51	22.31	0.170
						100	0	75	0	20.22	10.72	20.68	20.48	0.112
	40546	2585.6	40717	2602.7	QPSK	1	99	1	0	21.97	12.28	22.41	22.21	0.166
						100	0	75	0	20.28	10.82	20.75	20.55	0.113
	41341	2665.1	41512	2682.2	QPSK	1	99	1	0	21.96	12.18	22.39	22.19	0.166
						100	0	75	0	20.24	10.61	20.69	20.49	0.112
20MHz+15MHz	39750	2506.0	39921	2523.1	16QAM	1	99	1	0	21.74	11.43	22.13	21.93	0.156
						100	0	75	0	19.25	9.84	19.72	19.52	0.090
	40546	2585.6	40717	2602.7	16QAM	1	99	1	0	21.85	11.51	22.23	22.03	0.160
						100	0	75	0	19.26	9.95	19.74	19.54	0.090
	41341	2665.1	41512	2682.2	16QAM	1	99	1	0	21.78	11.38	22.16	21.96	0.157
						100	0	75	0	19.34	9.61	19.78	19.58	0.091
20MHz+15MHz	39750	2506.0	39921	2523.1	64QAM	1	99	1	0	19.35	9.14	19.75	19.55	0.090
						100	0	75	0	19.20	9.87	19.68	19.48	0.089
	40546	2585.6	40717	2602.7	64QAM	1	99	1	0	19.48	9.13	19.86	19.66	0.093
						100	0	75	0	19.26	9.88	19.73	19.53	0.090
	41341	2665.1	41512	2682.2	64QAM	1	99	1	0	19.31	9.01	19.70	19.50	0.089
						100	0	75	0	19.29	9.61	19.73	19.53	0.090

Part 27 / RSS 199_ EIRP Limit (W)	2
Antenna Gain	-0.2

OUTPUT POWER FOR LTE BAND 41 (20MHz + 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)
20MHz+20MHz	39750	2506.0	39948	2525.8	QPSK	1	99	1	0	22.06	12.12	22.48	22.28	0.169
						100	0	100	0	20.09	10.84	20.58	20.38	0.109
	40521	2583.1	40719	2602.9	QPSK	1	99	1	0	22.01	12.05	22.43	22.23	0.167
						100	0	100	0	20.25	10.99	20.74	20.54	0.113
	41292	2660.2	41490	2680.0	QPSK	1	99	1	0	21.94	12.03	22.36	22.16	0.165
						100	0	100	0	20.19	10.56	20.64	20.44	0.111
20MHz+20MHz	39750	2506.0	39948	2525.8	16QAM	1	99	1	0	21.83	11.37	22.20	22.00	0.159
						100	0	100	0	19.21	9.99	19.70	19.50	0.089
	40521	2583.1	40719	2602.9	16QAM	1	99	1	0	21.87	11.41	22.24	22.04	0.160
						100	0	100	0	19.47	9.99	19.93	19.73	0.094
	41292	2660.2	41490	2680.0	16QAM	1	99	1	0	21.84	11.27	22.21	22.01	0.159
						100	0	100	0	19.25	9.63	19.70	19.50	0.089
20MHz+20MHz	39750	2506.0	39948	2525.8	64QAM	1	99	1	0	19.40	8.93	19.77	19.57	0.091
						100	0	100	0	19.18	9.94	19.67	19.47	0.088
	40521	2583.1	40719	2602.9	64QAM	1	99	1	0	19.46	9.01	19.83	19.63	0.092
						100	0	100	0	19.33	9.82	19.79	19.59	0.091
	41292	2660.2	41490	2680.0	64QAM	1	99	1	0	19.39	8.85	19.76	19.56	0.090
						100	0	100	0	19.19	9.69	19.65	19.45	0.088

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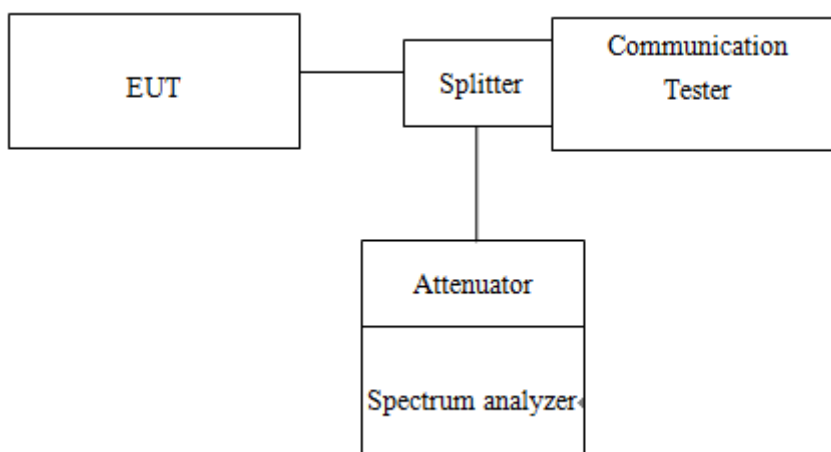
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8 OCCUPIED BANDWIDTH MEASUREMENT

8.1 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.

8.2 Test Set-up



8.3 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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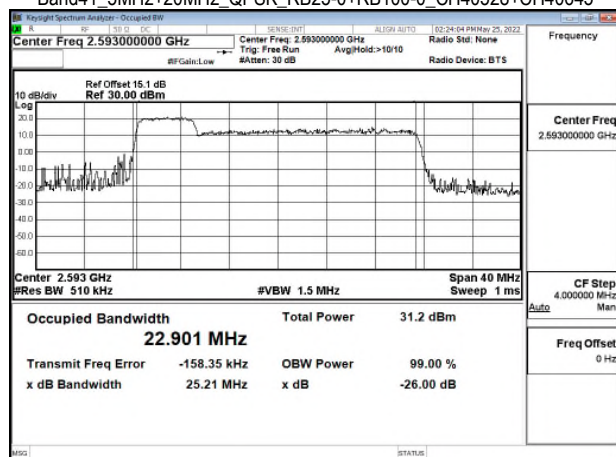
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8.4 Measurement Result

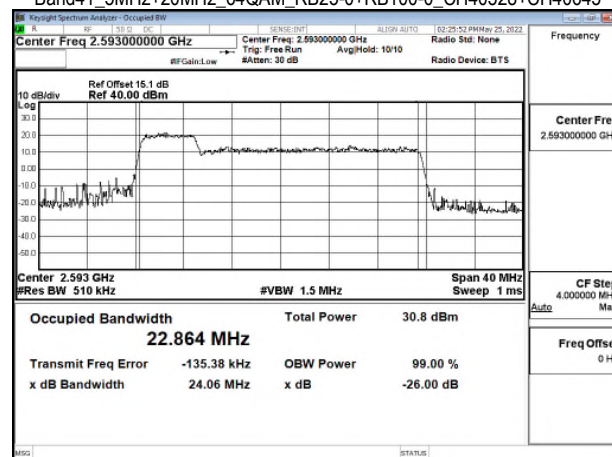
LTE BAND 41C

Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	99% BW (MHz)			26 dB BW (MHz)		
				QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
LTE BAND 41C	5MHz + 20MHz	25/0 + 100/0	2593.0	22.901	22.829	22.864	25.21	26.45	24.06
LTE BAND 41C	20MHz + 5MHz	100/0 + 25/0	2593.0	22.883	22.934	22.852	24.22	25.4	25.46
LTE BAND 41C	10MHz + 20MHz	50/0 + 100/0	2593.0	27.773	27.735	27.799	30.33	34.56	31.7
LTE BAND 41C	20MHz + 10MHz	100/0 + 50/0	2593.0	27.761	27.767	27.735	30.11	30.39	33.98
LTE BAND 41C	15MHz + 15MHz	75/0 + 75/0	2593.0	28.34	28.419	28.311	31.58	34.12	30.22
LTE BAND 41C	15MHz + 20MHz	75/0 + 100/0	2593.0	32.616	32.717	32.663	38.37	37.46	34.43
LTE BAND 41C	20MHz + 15MHz	100/0 + 75/0	2593.0	32.591	32.719	32.602	35.4	36.86	34.78
LTE BAND 41C	20MHz + 20MHz	100/0 + 100/0	2593.0	37.527	37.661	37.592	41.23	41.69	44.41

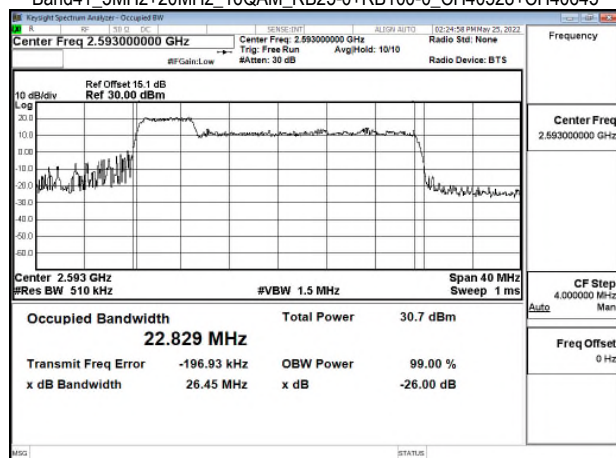
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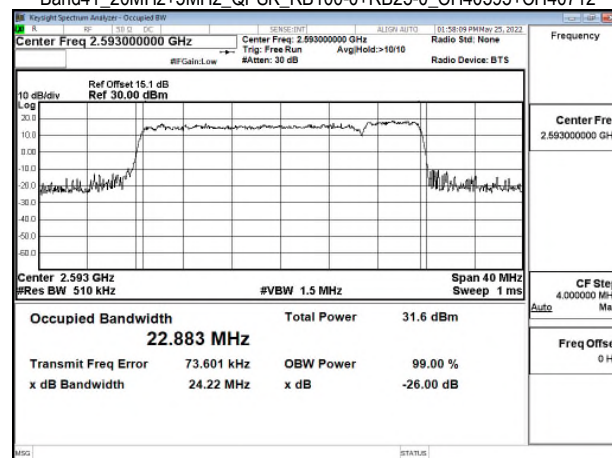
Band41_5MHz+20MHz_64QAM_RB25-0+RB100-0_CH40528+CH40645



Band41_5MHz+20MHz_16QAM_RB25-0+RB100-0_CH40528+CH40645



Band41_20MHz+5MHz_QPSK_RB100-0+RB25-0_CH40595+CH40712

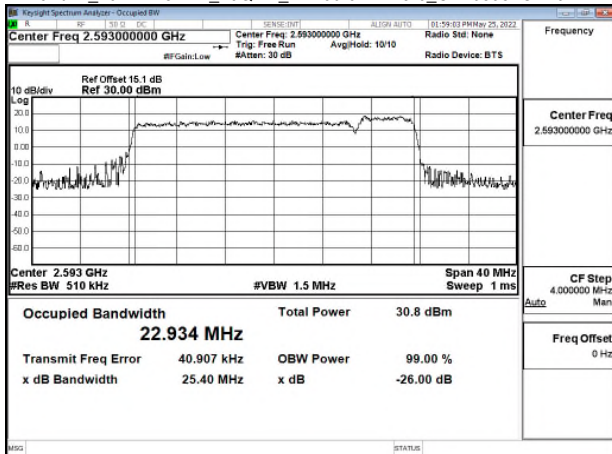


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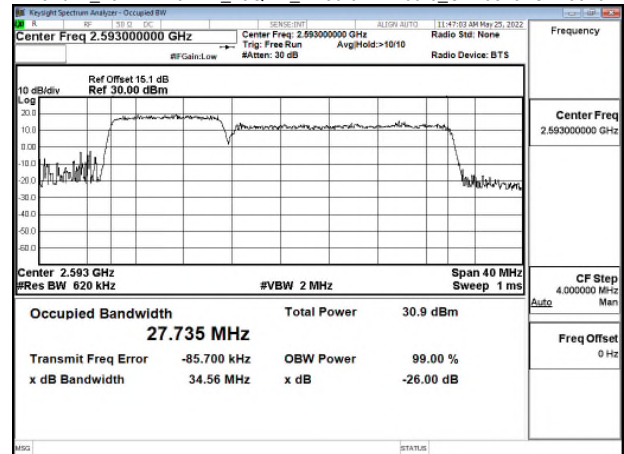
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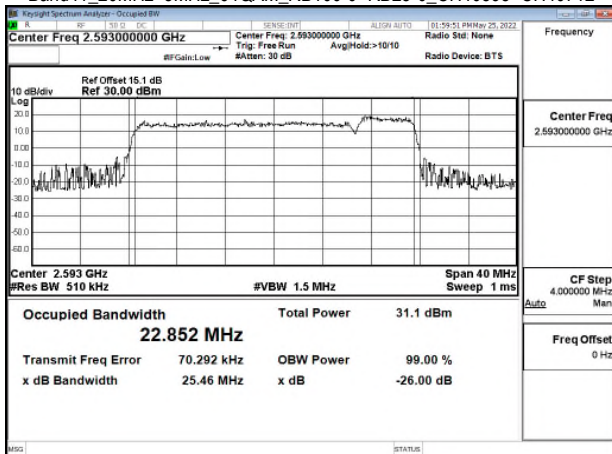
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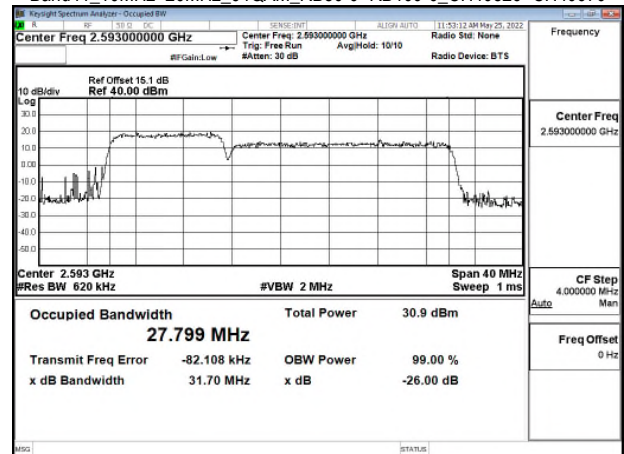
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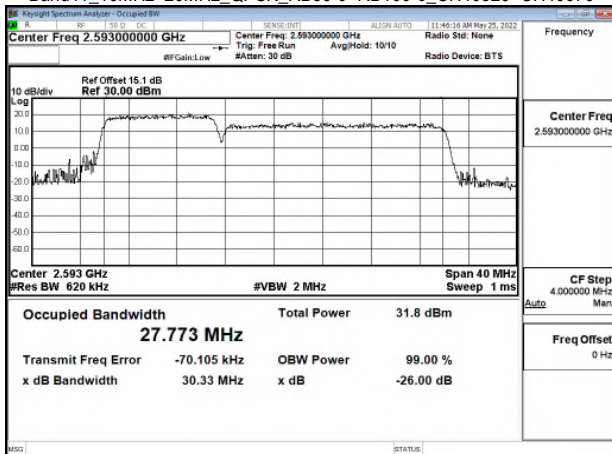
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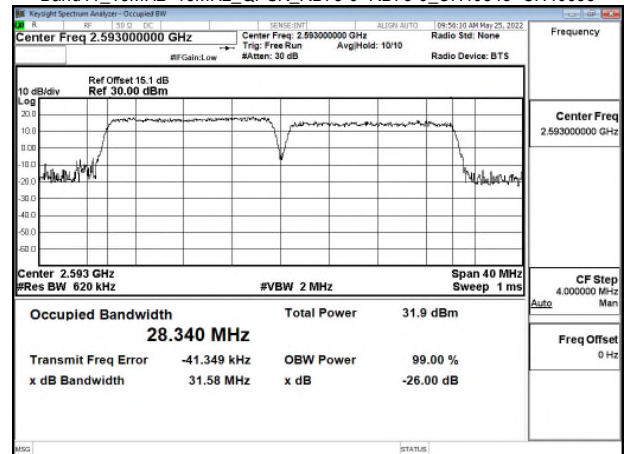
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Band41_10MHz+20MHz_QPSK_RB50-0+RB100-0_CH40526+CH40670



Band41_15MHz+15MHz_QPSK_RB75-0+RB75-0_CH40545+CH40695

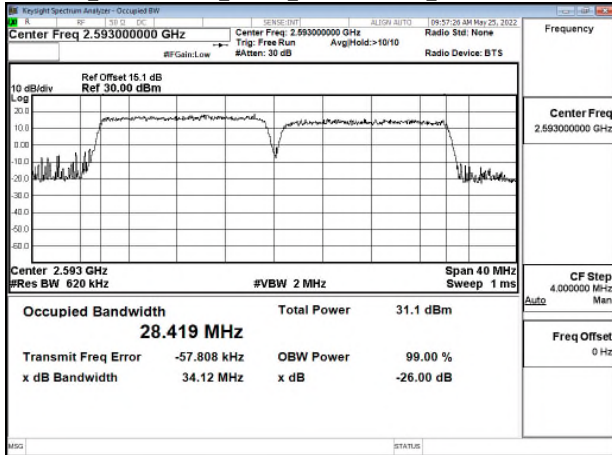


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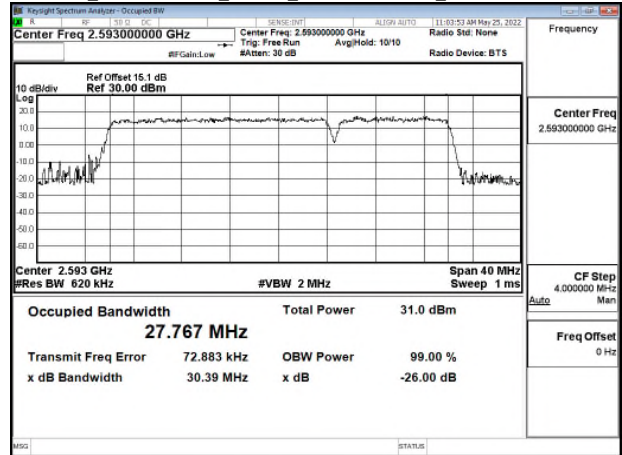
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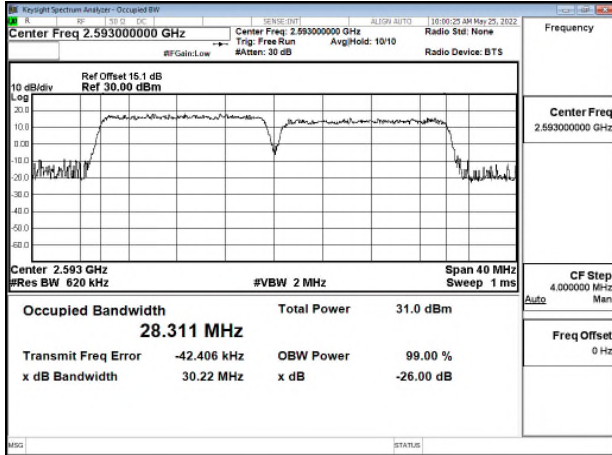
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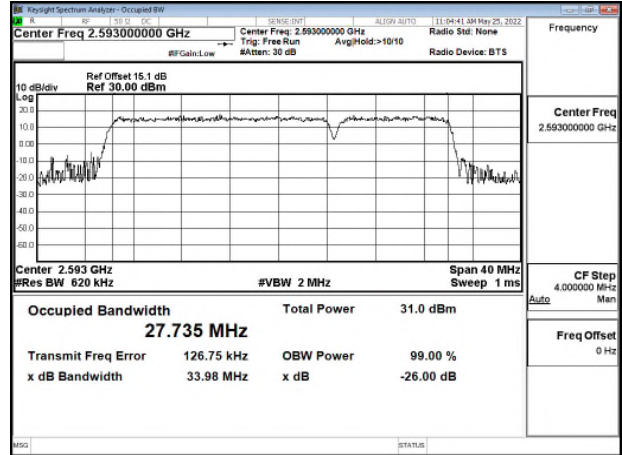
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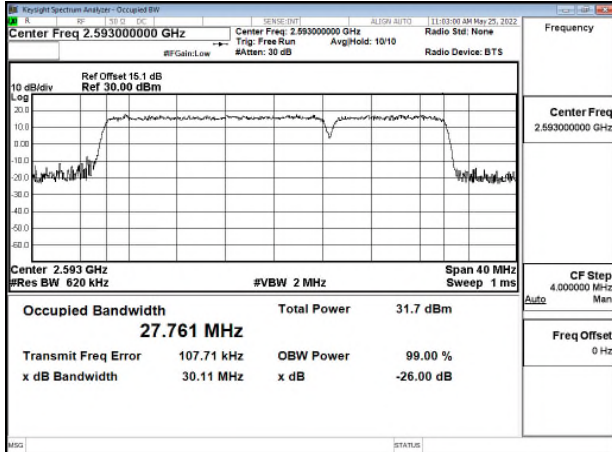
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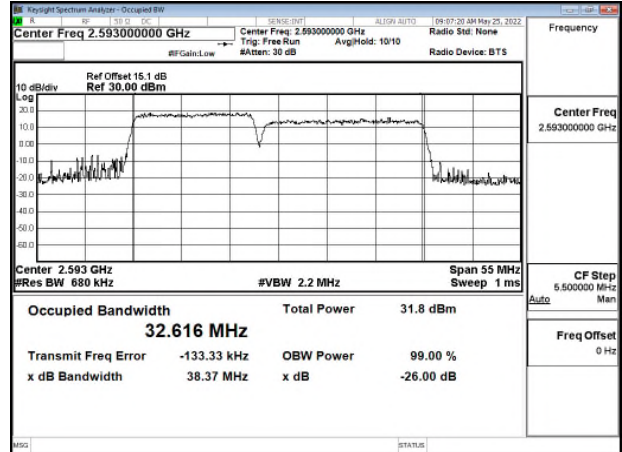
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Band41_20MHz+10MHz_QPSK_RB100-0+RB50-0_CH40571+CH40715



Band41_15MHz+20MHz_QPSK_RB75-0+RB100-0_CH40523+CH40694

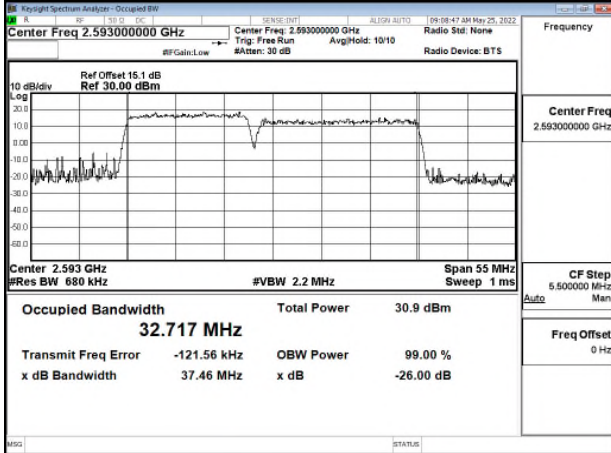


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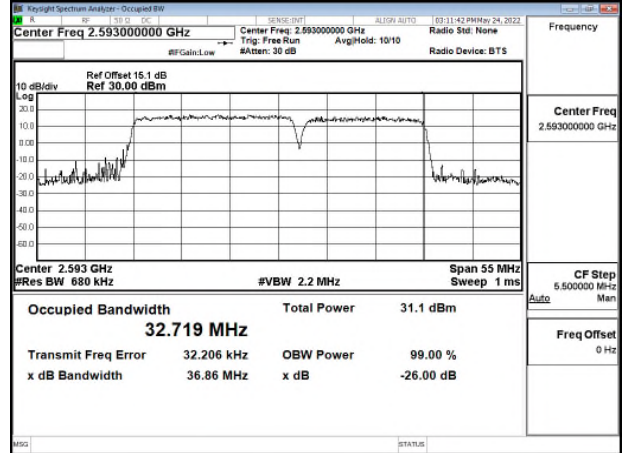
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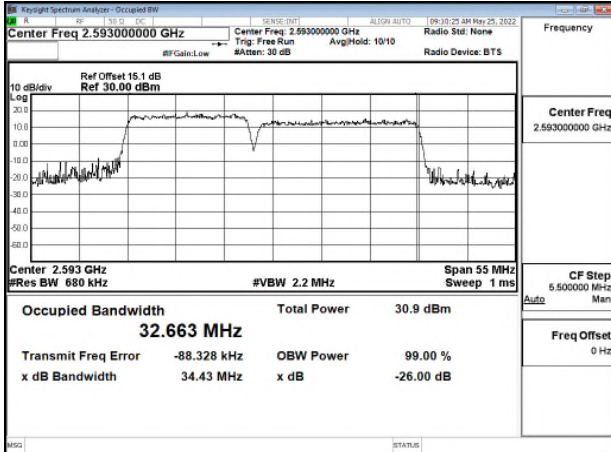
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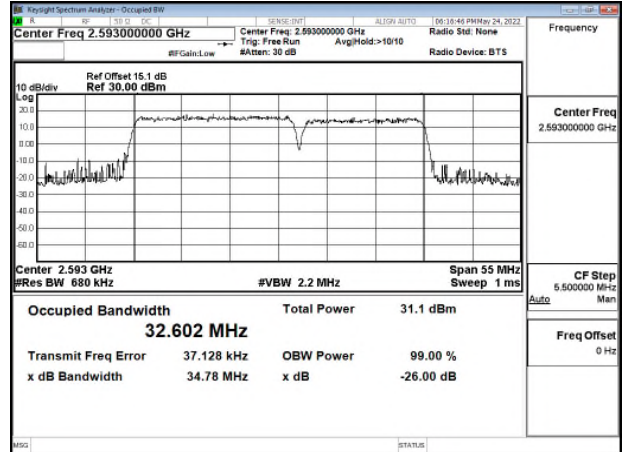
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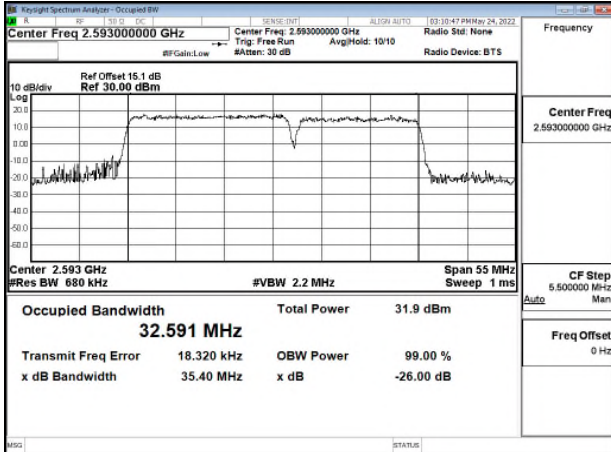
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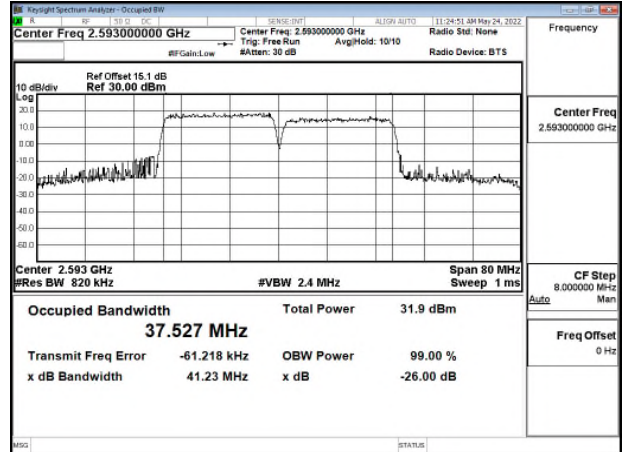
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Band41_20MHz+15MHz_QPSK_RB100-0+RB75-0_CH40546+CH40717



Band41_20MHz+20MHz_QPSK_RB100-0+RB100-0_CH40521+CH40719

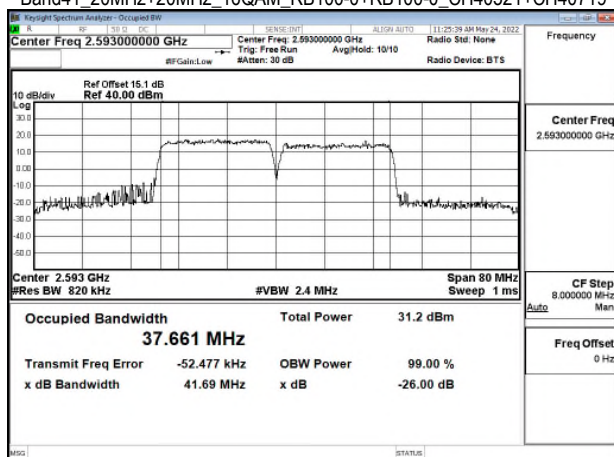


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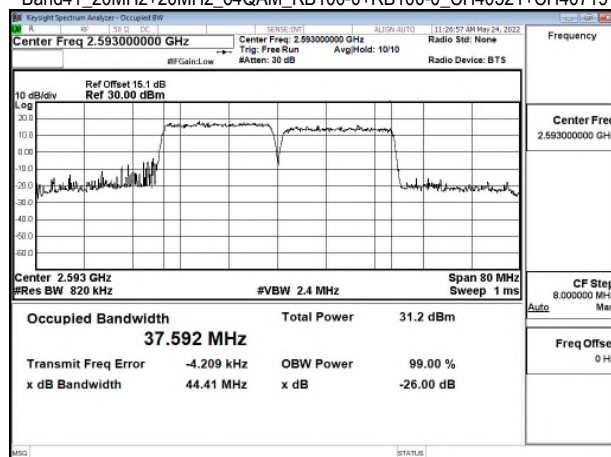
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Band41_20MHz+20MHz_16QAM_RB100-0+RB100-0_CH40521+CH40719



Band41_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH40521+CH40719



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9 OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1 Standard Applicable

FCC §27.53(h)

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

FCC §27.53(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.

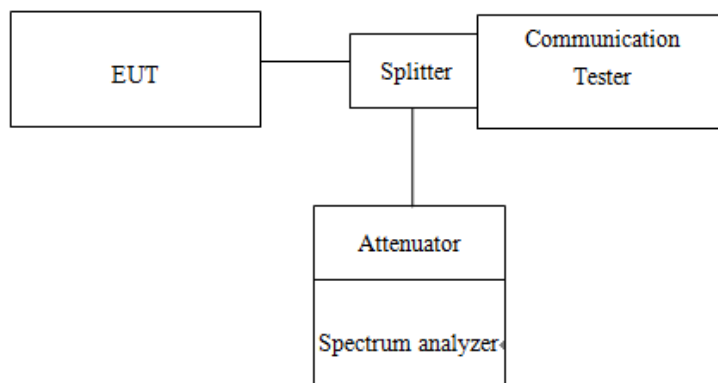
Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission 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.

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9.2 Test SET-UP



9.3 Measurement Procedure

9.3.1 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.

9.3.2 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 $RBW \geq 1\% \text{ EBW}$.
3. Allow trace to fully stabilize
4. Repeat above procedures until all default test channel measured were complete.

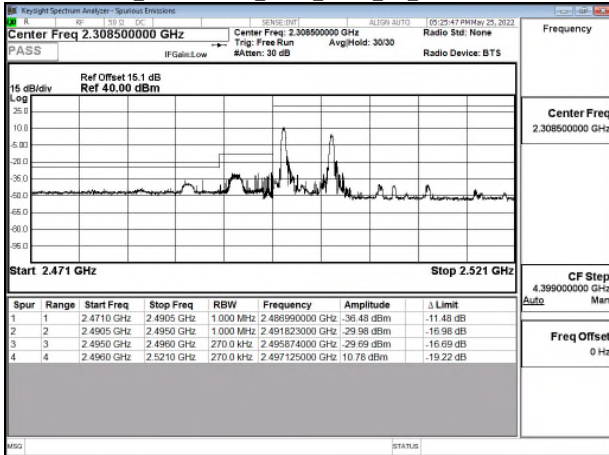
9.4 Band Edge Measurement Result:

Refer to next pages.

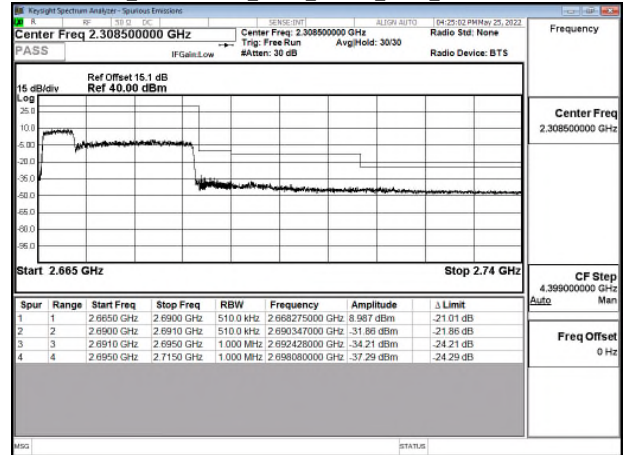
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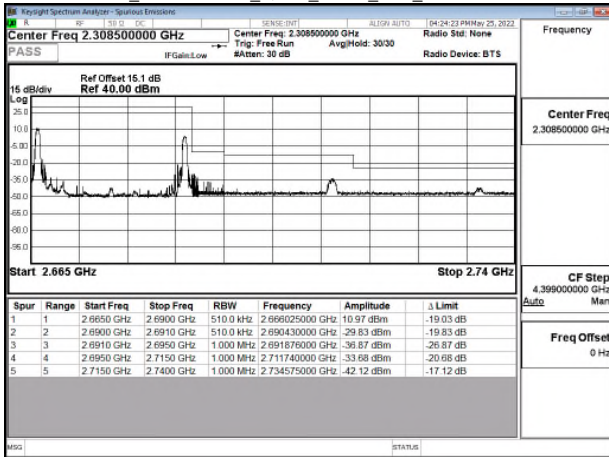
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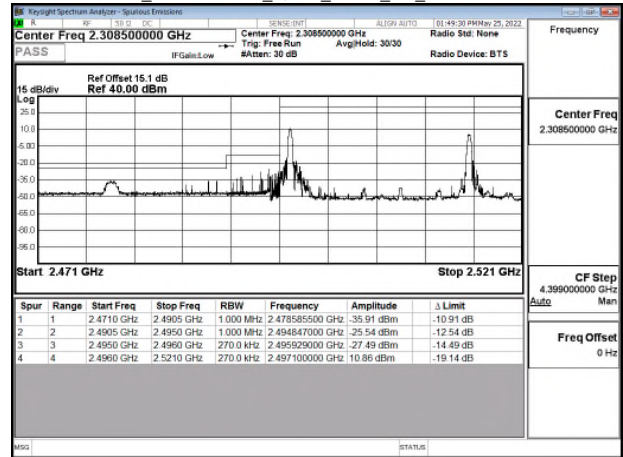
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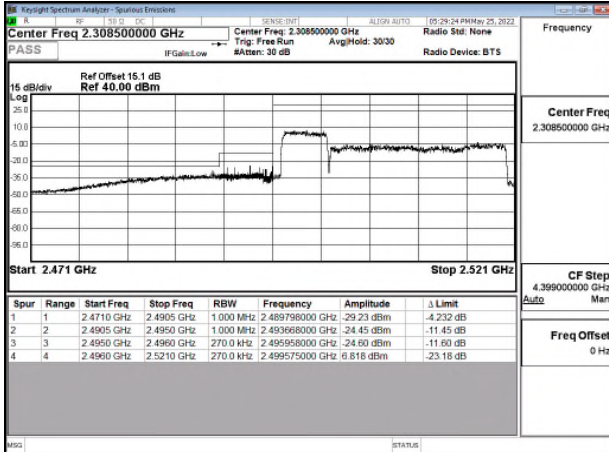
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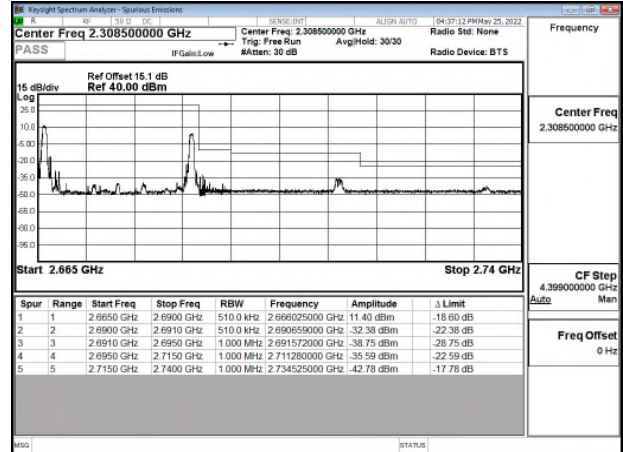
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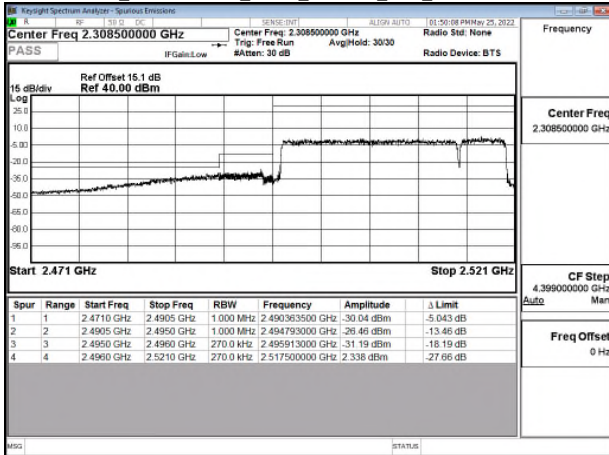


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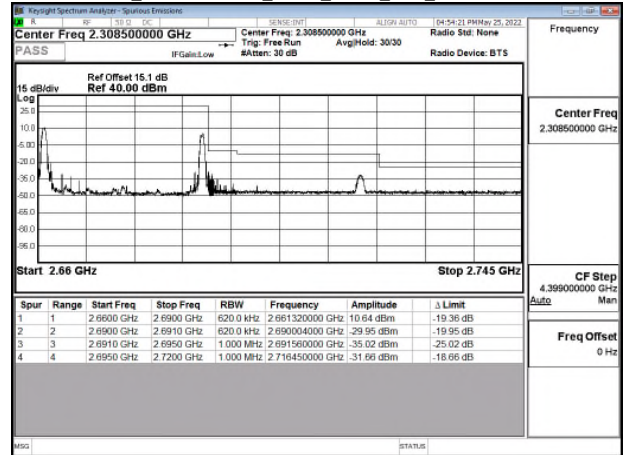
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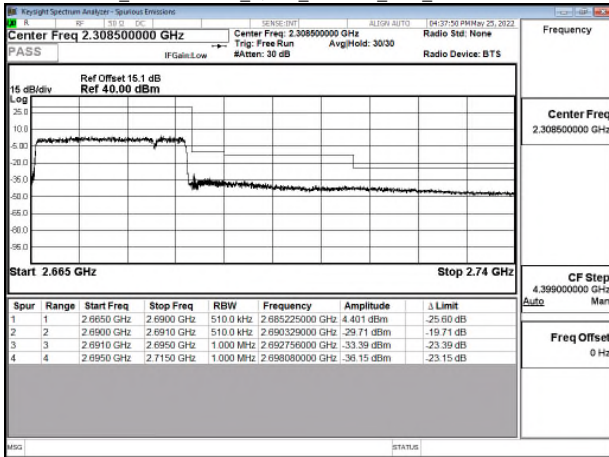
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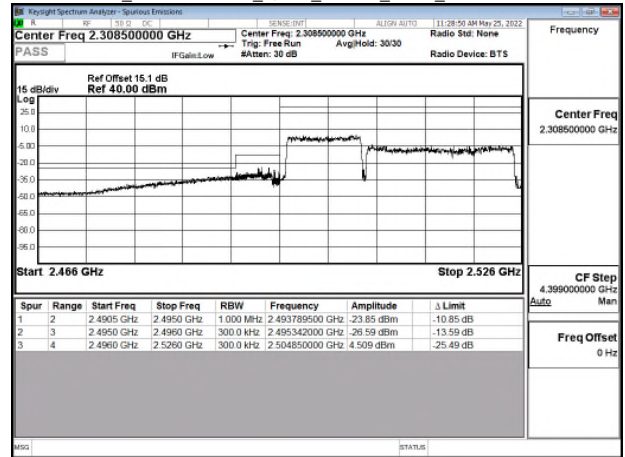
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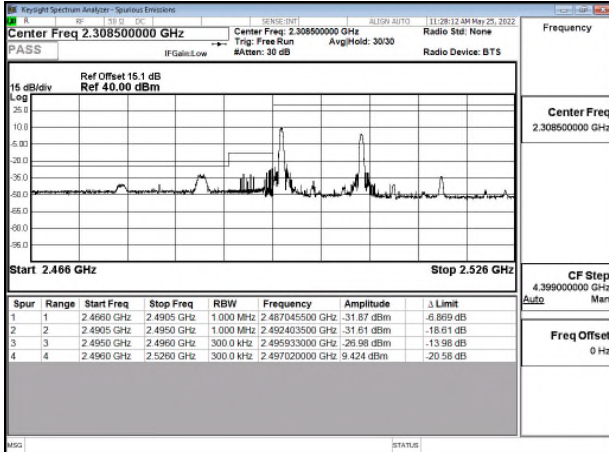
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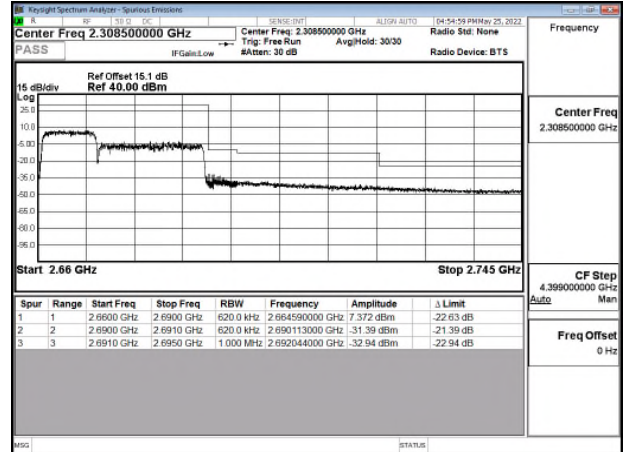
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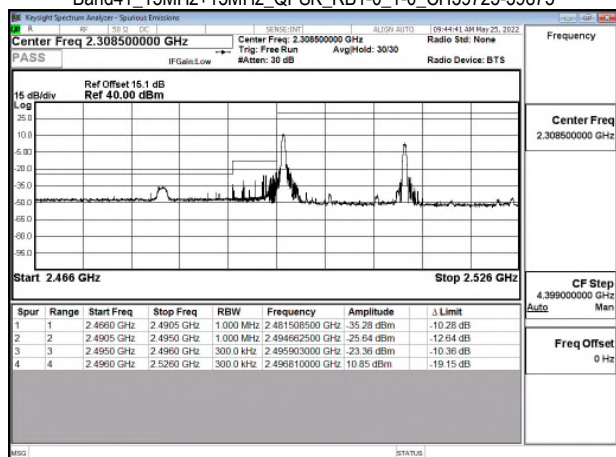


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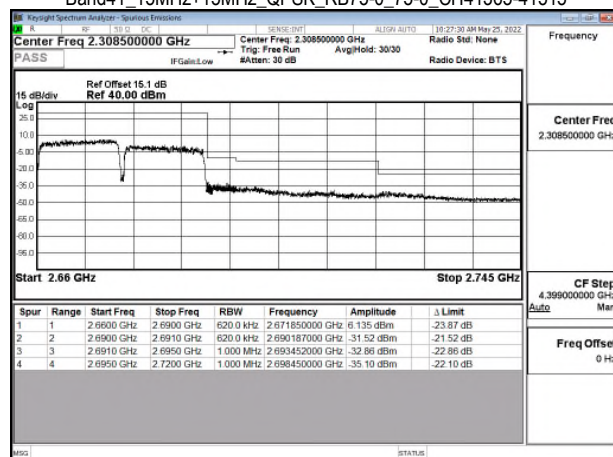
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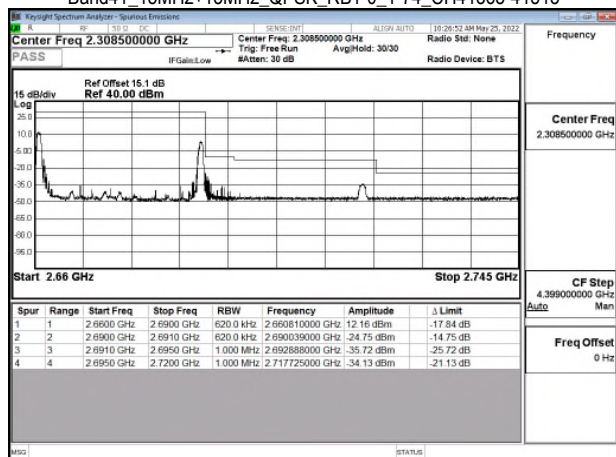
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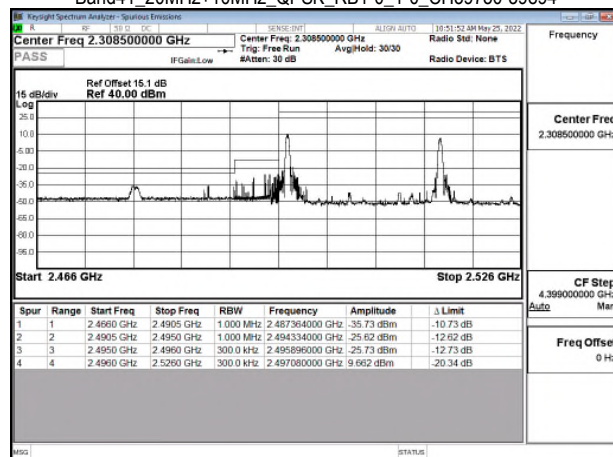
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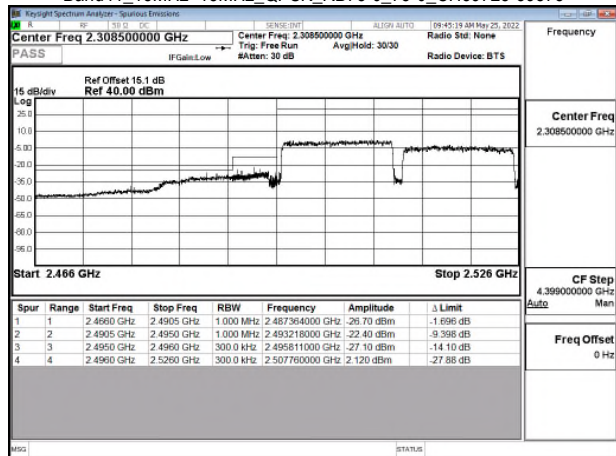
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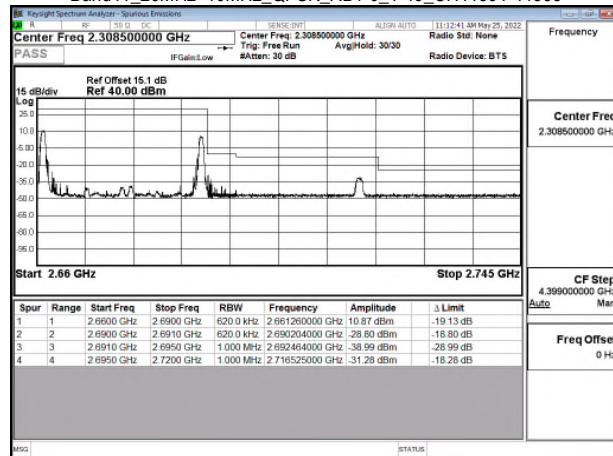
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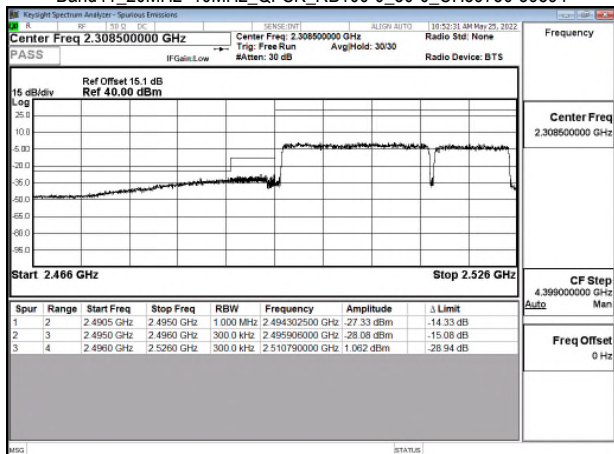


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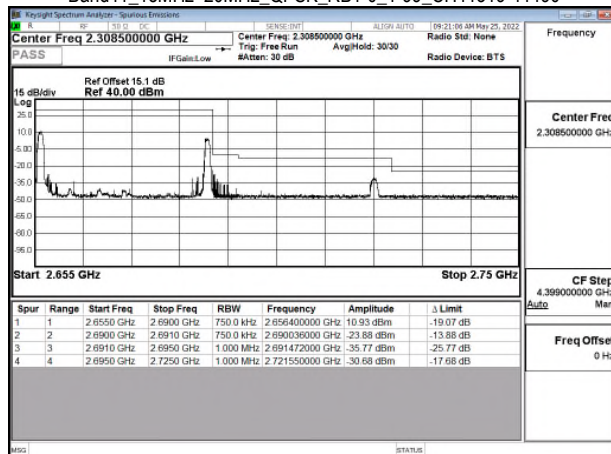
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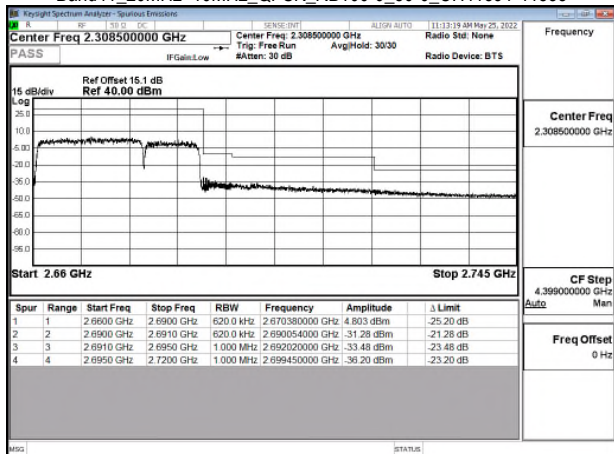
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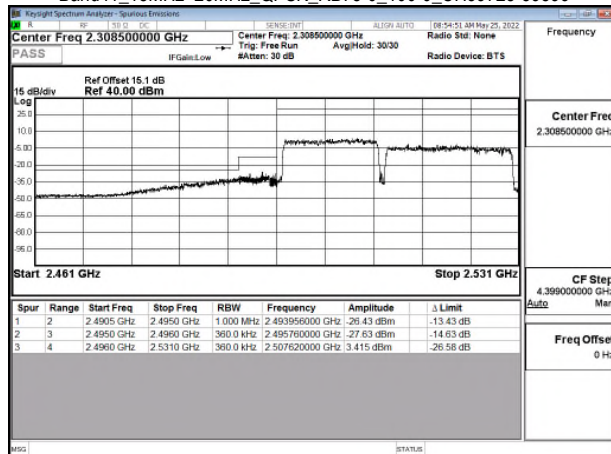
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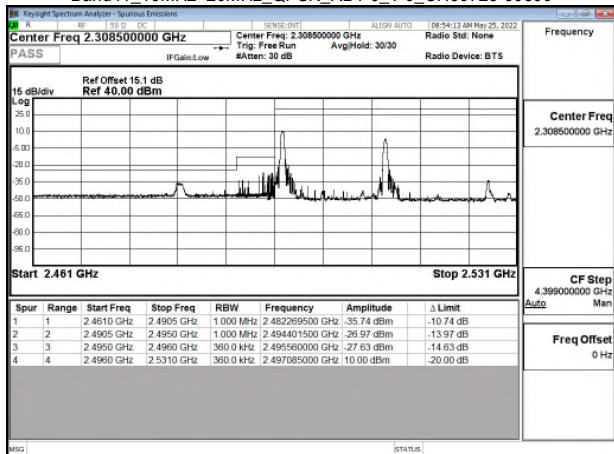
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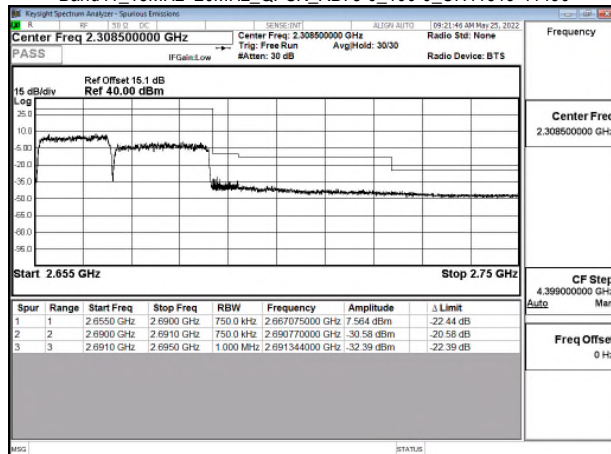
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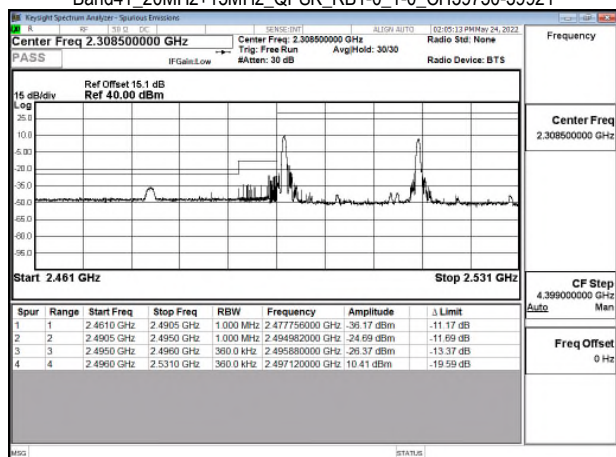


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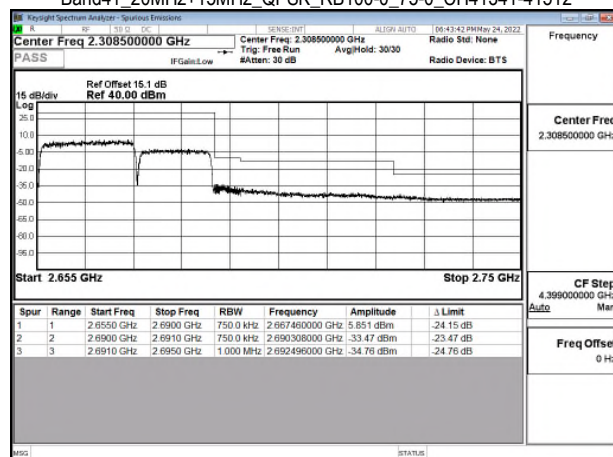
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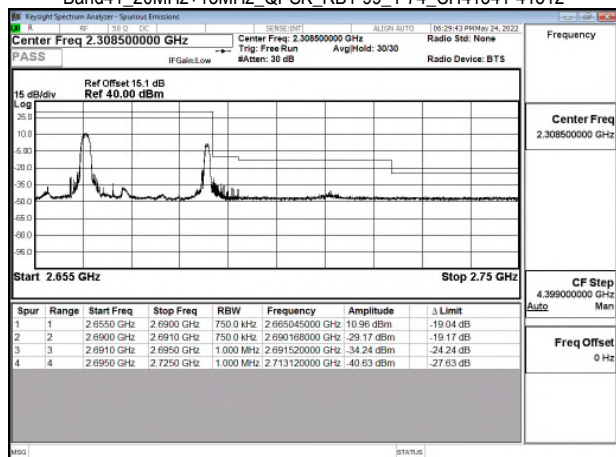
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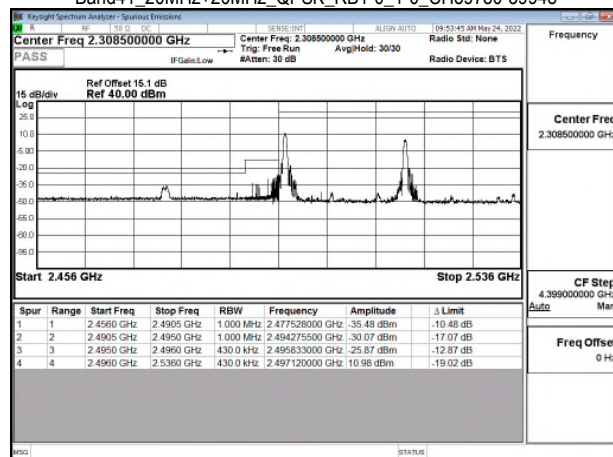
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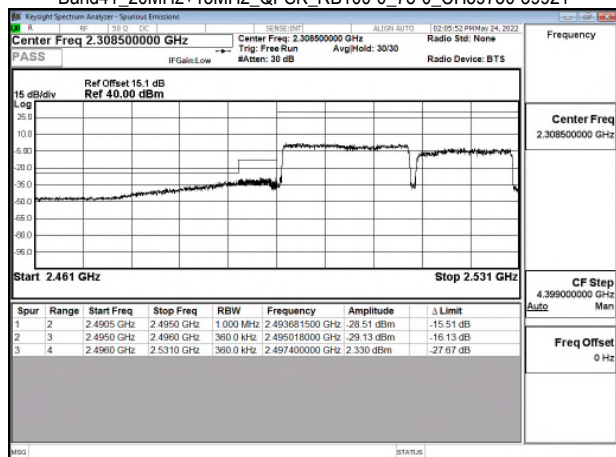
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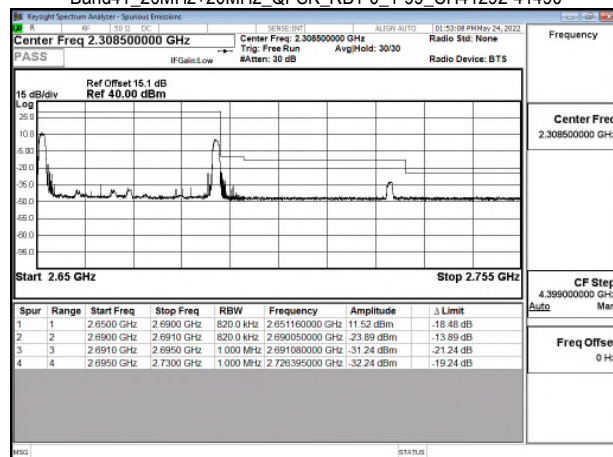
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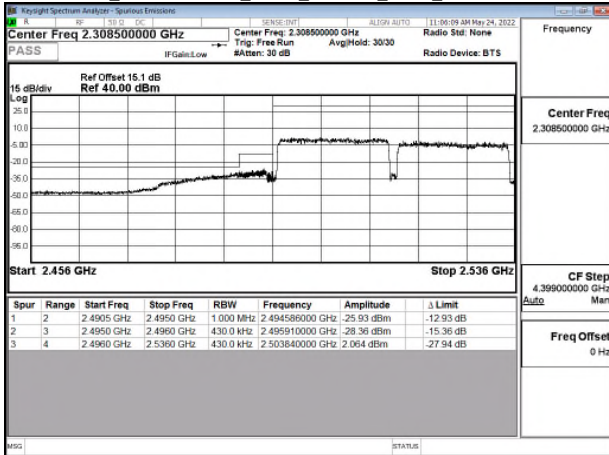


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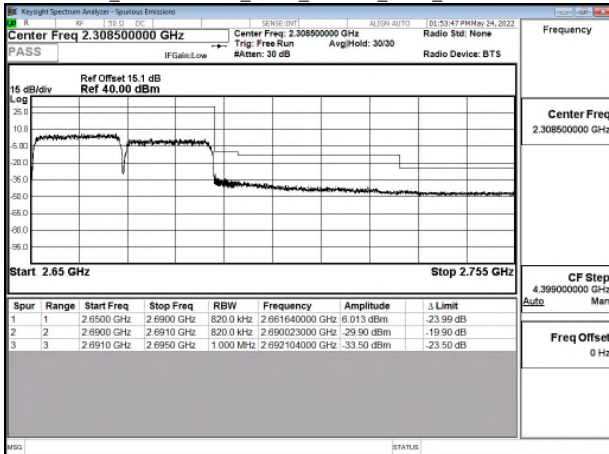
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Band41_20MHz+20MHz_QPSK_RB100-0_100-0_CH39750-39948



Band41_20MHz+20MHz_QPSK_RB100-0_100-0_CH41292-41490



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9.5 Spurious Emission Measurement Result:

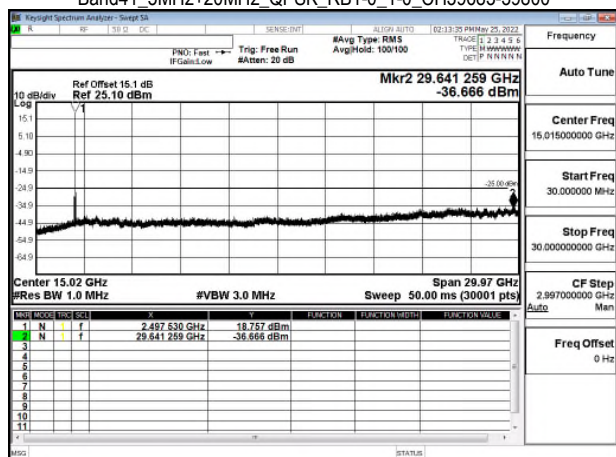
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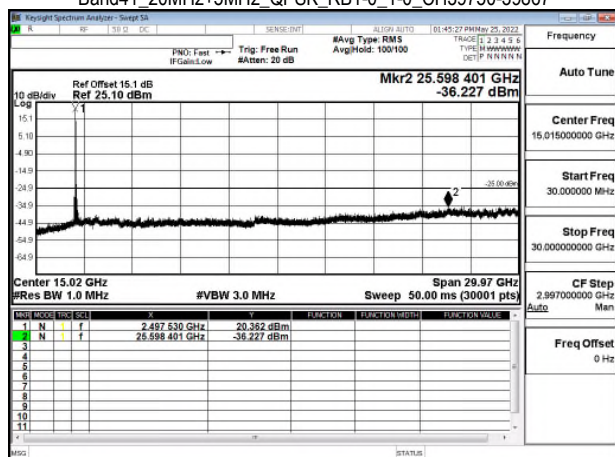
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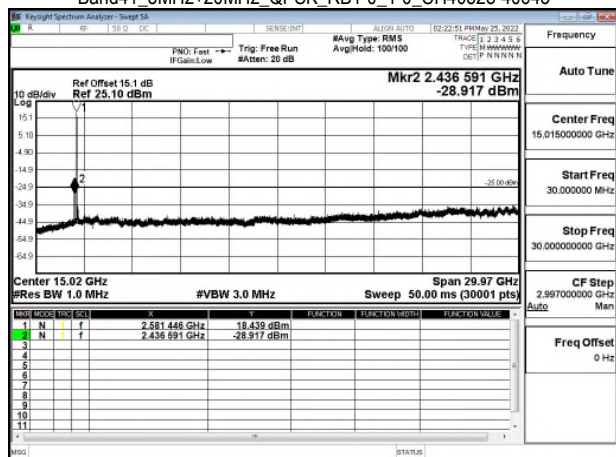
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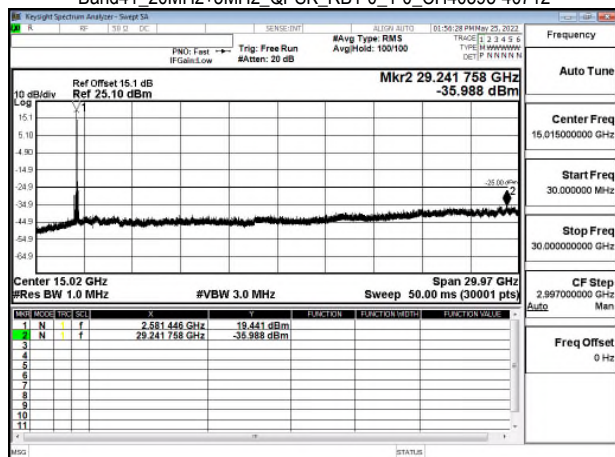
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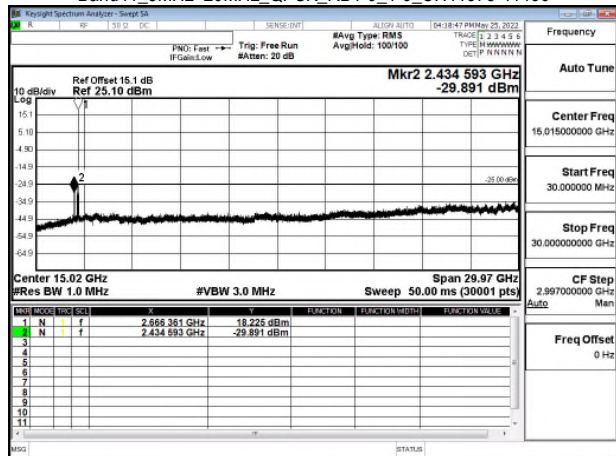
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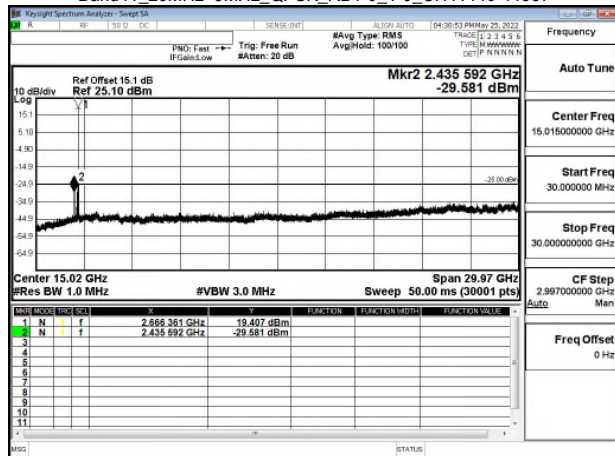
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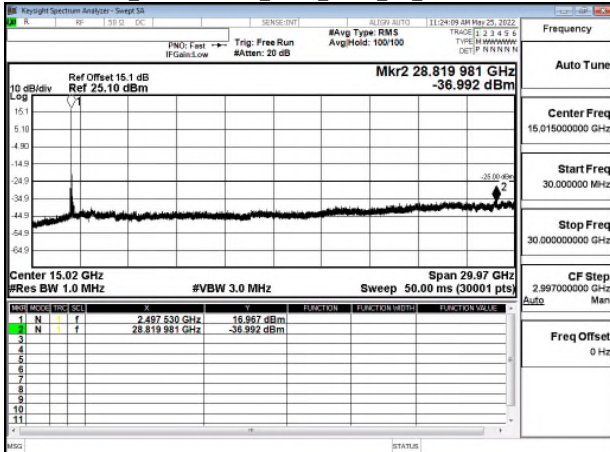


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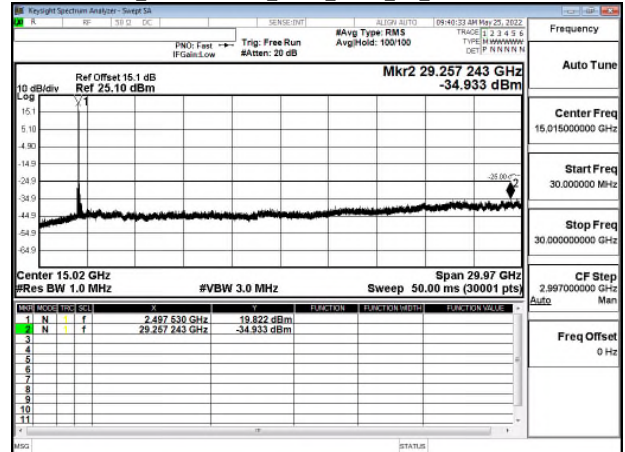
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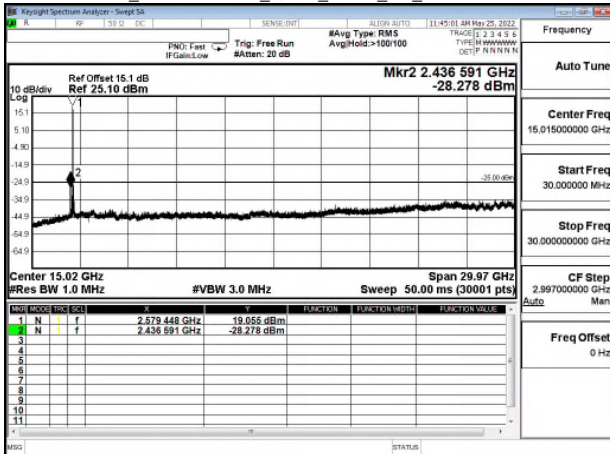
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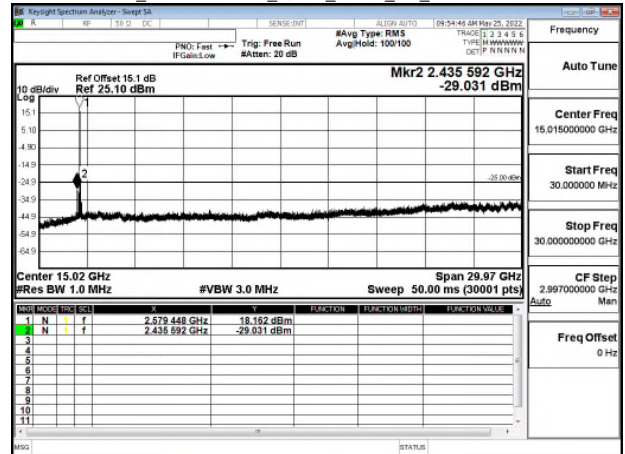
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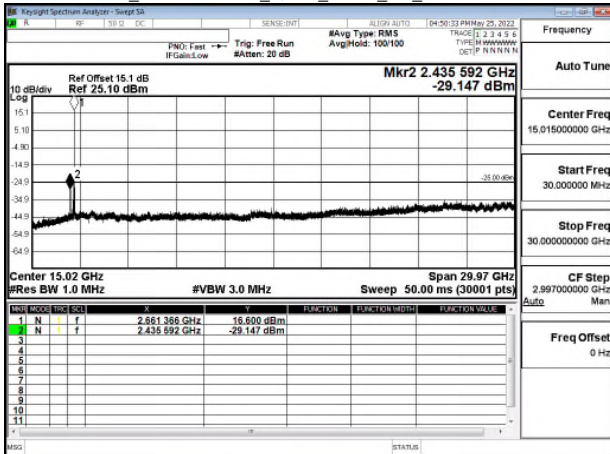
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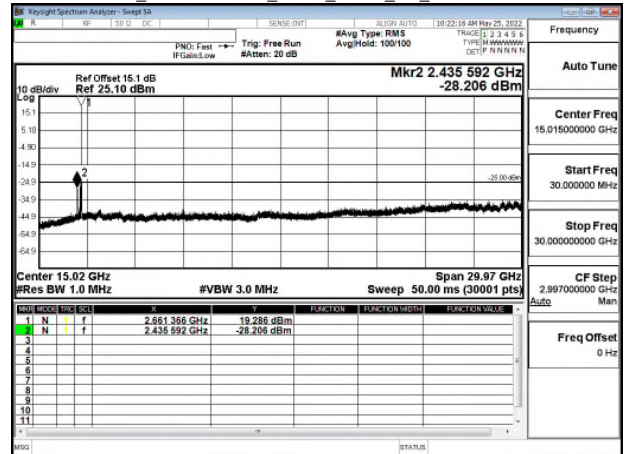
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Band41_10MHz+20MHz_QPSK_RB1-0_1-0_CH41346-41490



Band41_15MHz+15MHz_QPSK_RB1-0_1-0_CH41365-41515

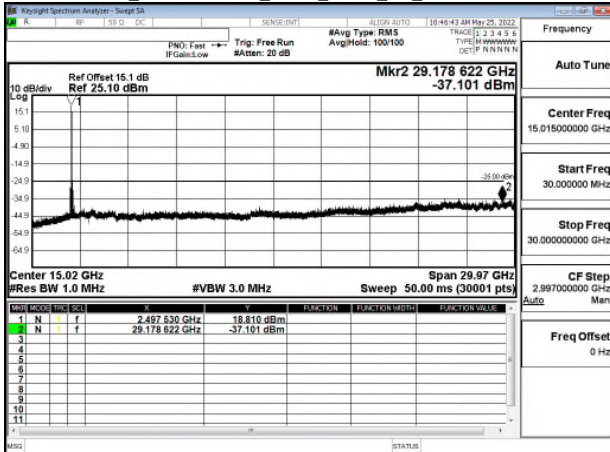


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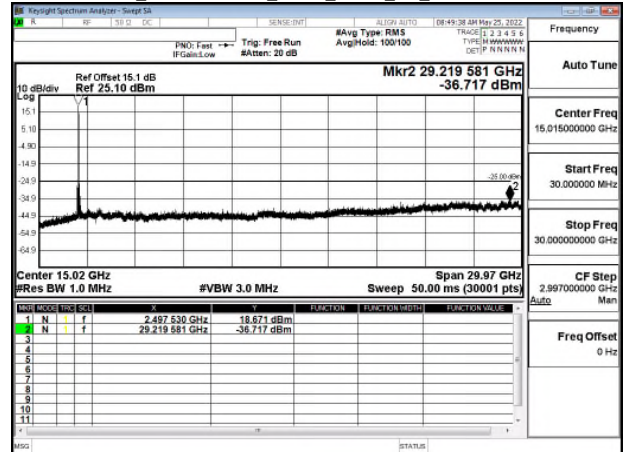
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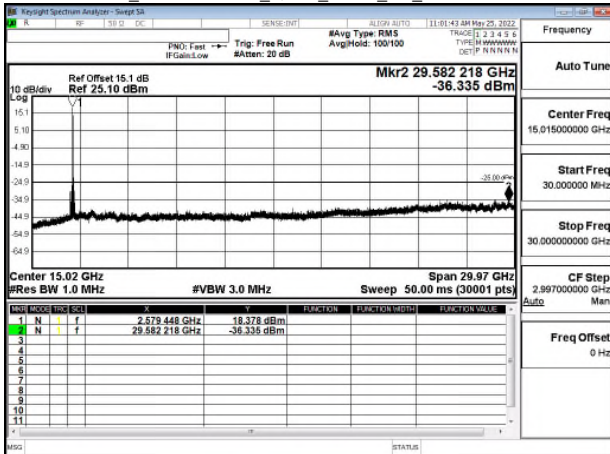
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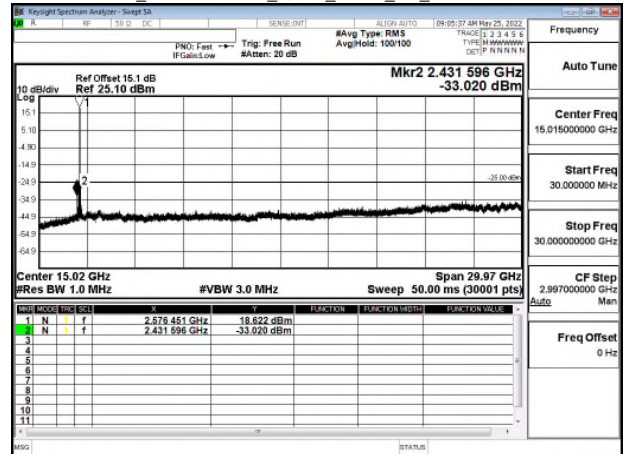
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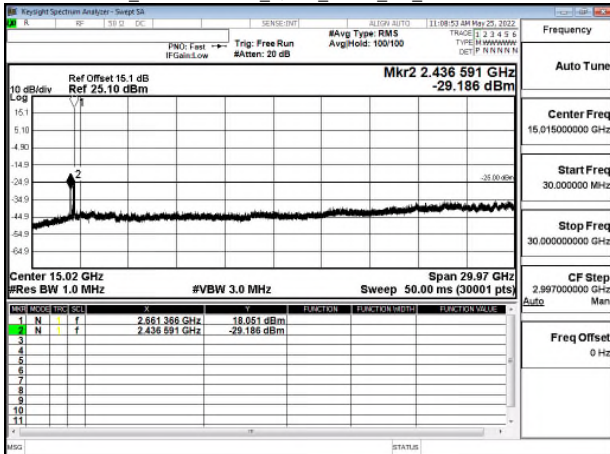
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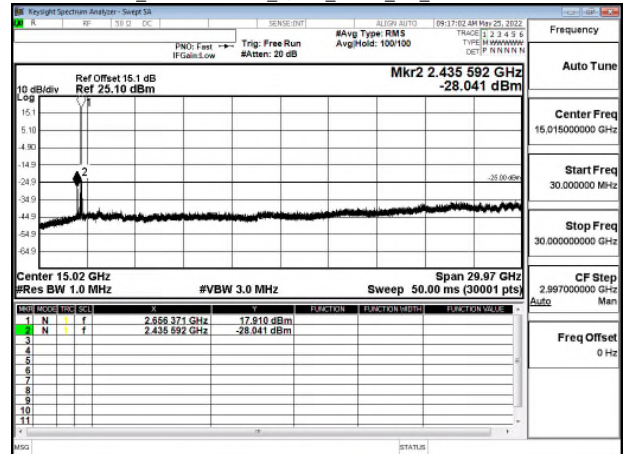
Band41_15MHz+20MHz_QPSK_RB1-0_1-0_CH40523-40694



Band41_20MHz+10MHz_QPSK_RB1-0_1-0_CH41391-41535



Band41_15MHz+20MHz_QPSK_RB1-0_1-0_CH41319-41490

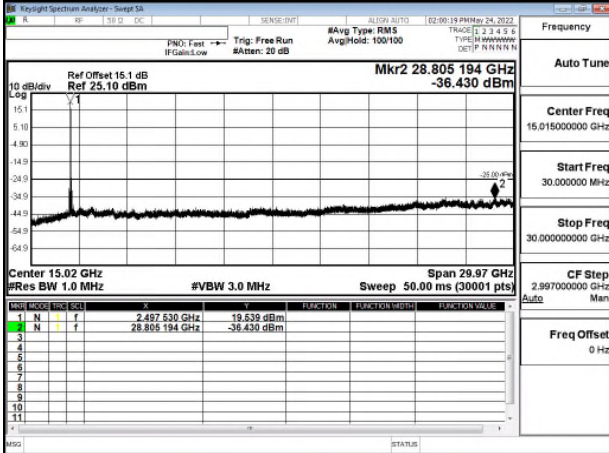


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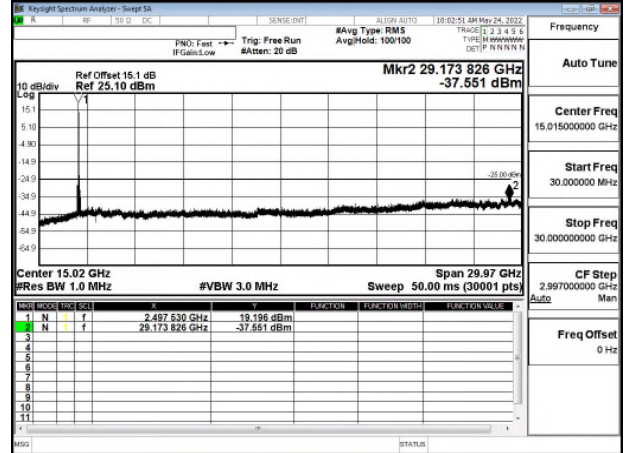
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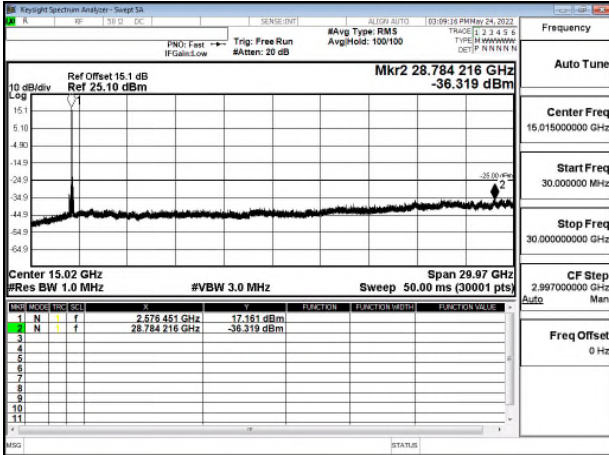
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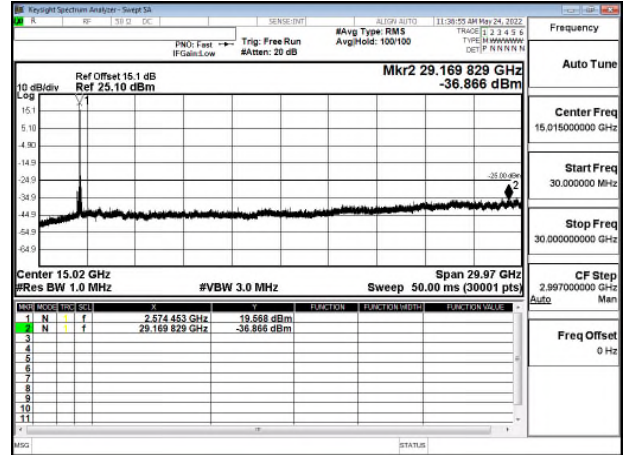
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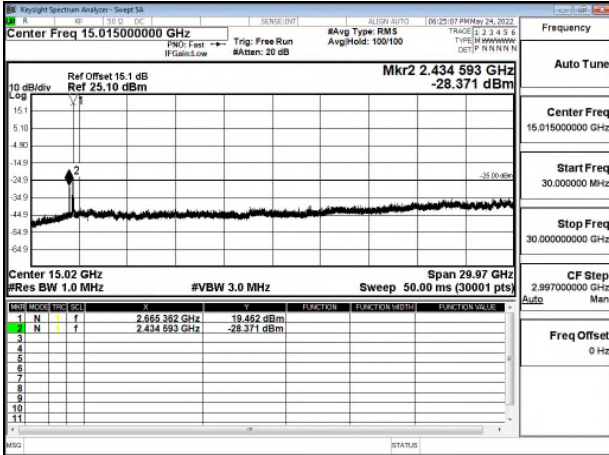
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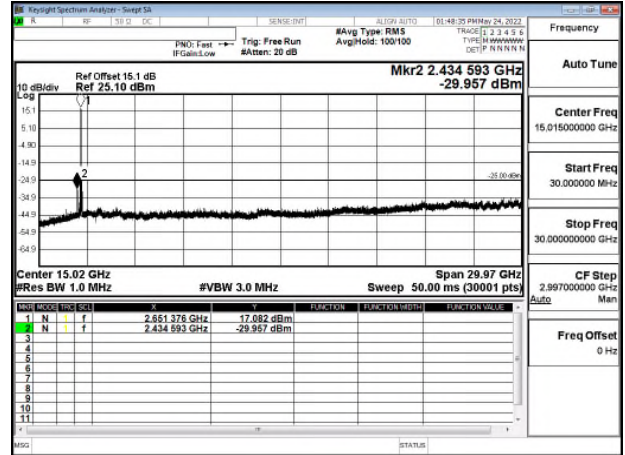
Band41_20MHz+20MHz_QPSK_RB1-0_1-0_CH40521-40719



Band41_20MHz+15MHz_QPSK_RB1-0_1-0_CH41341-41512



Band41_20MHz+20MHz_QPSK_RB1-0_1-0_CH41292-41490



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10 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

10.1 Standard Applicable

According to FCC §2.1053,

FCC §27.53(h)

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

FCC §27.53(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.

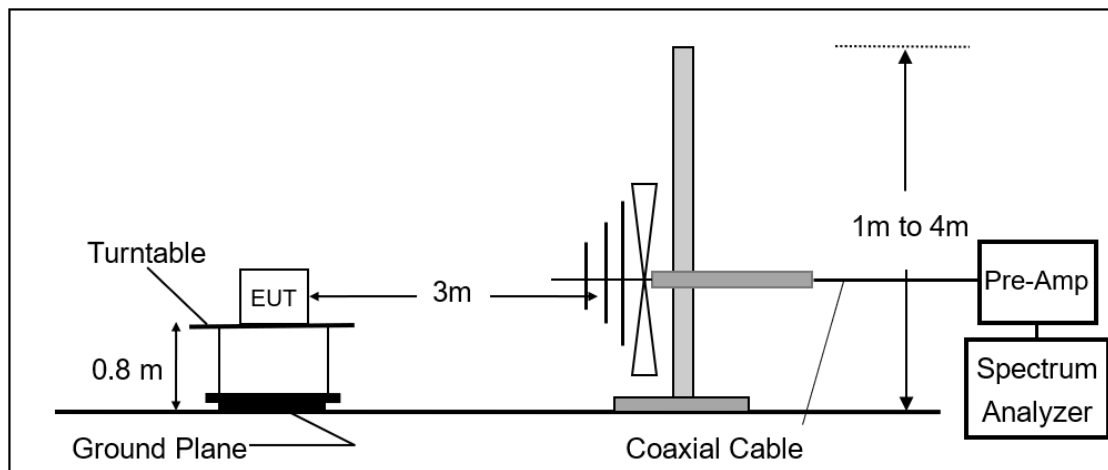
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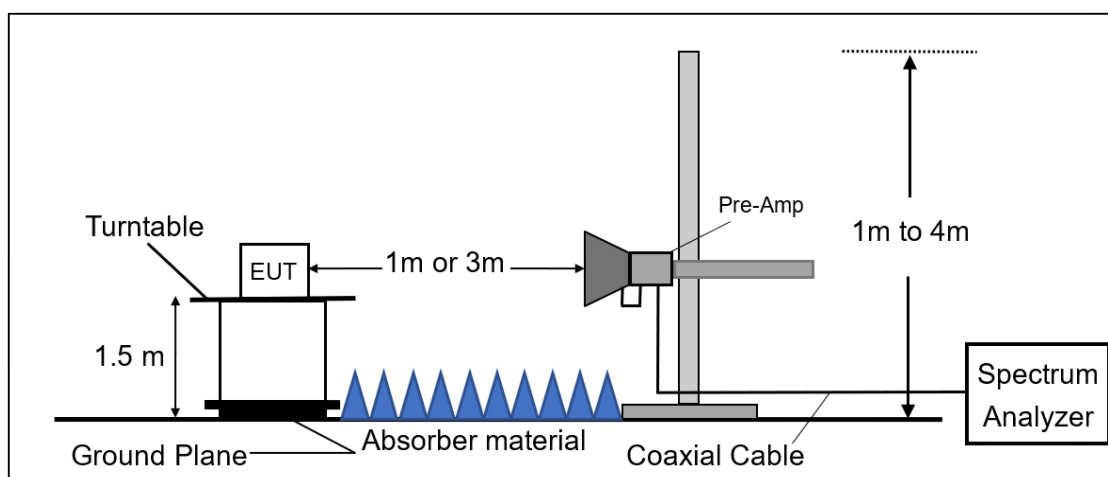
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10.2 EUT Setup

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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10.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

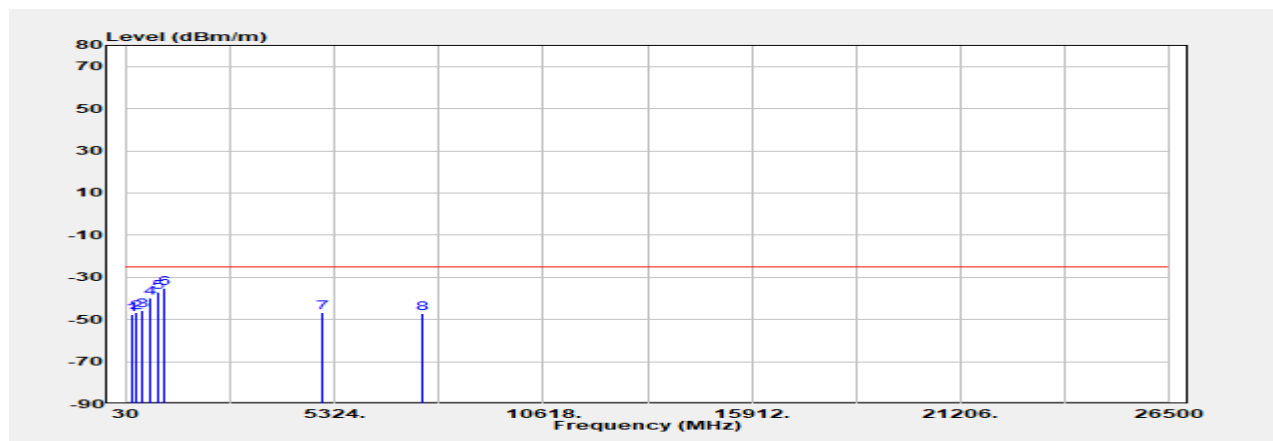
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10.4 Measurement Result:

Report Number :TERF2204000398E2
 Operation Mode :41C
 Test Mode :Tx CH LOW
 EUT Pol :E1 Plane
 Test Frequency :2501.5 MHz + 2515.9 MHz

Test Site :SAC G
 Test Date :2022-06-10
 Temp./Humi. :21.7/70
 Antenna Pol. :Vertical
 Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
161.920	-47.40	-43.55	-1.05	-2.80	-25.00	-22.40
251.160	-46.75	-47.95	4.31	-3.11	-25.00	-21.75
440.310	-45.64	-46.93	4.04	-2.75	-25.00	-20.64
603.270	-39.99	-40.78	3.61	-2.82	-25.00	-14.99
835.100	-37.10	-37.79	4.59	-3.90	-25.00	-12.10
980.600	-35.27	-34.55	3.80	-4.52	-25.00	-10.27
5017.400	-46.86	-48.43	12.53	-10.96	-25.00	-21.86
7526.100	-47.13	-44.77	11.25	-13.61	-25.00	-22.13

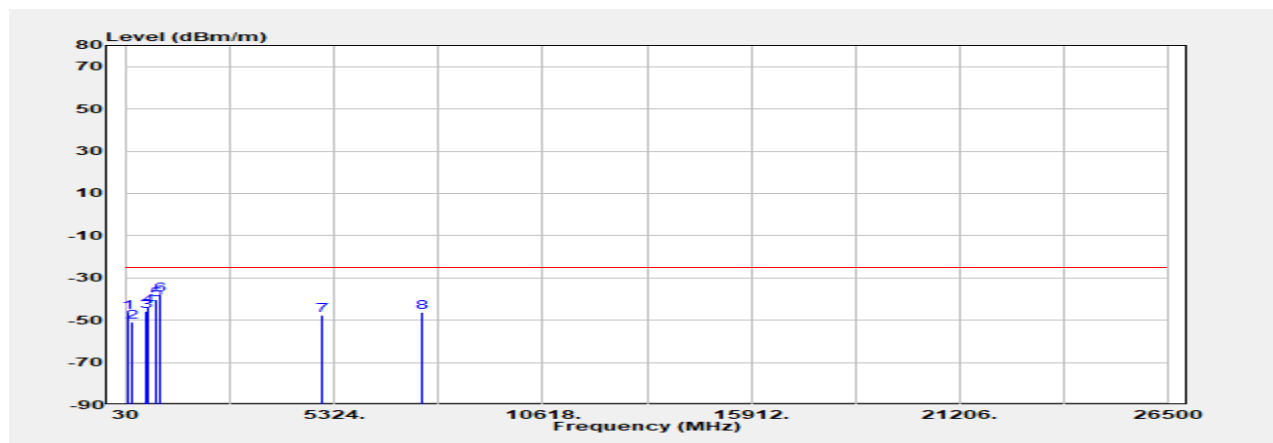
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Report Number :TERF2204000398E2
Operation Mode :41C
Test Mode :Tx CH LOW
EUT Pol :E1 Plane
Test Frequency :2501.5 MHz + 2515.9 MHz

Test Site :SAC G
Test Date :2022-06-10
Temp./Humi. :21.7/70
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
42.610	-46.04	-30.3	-13.31	-2.43	-25.00	-21.04
154.160	-50.68	-46.45	-1.41	-2.82	-25.00	-25.68
516.940	-45.60	-46.9	4.09	-2.79	-25.00	-20.60
551.860	-43.68	-44.8	4.20	-3.08	-25.00	-18.68
773.020	-40.41	-40.22	3.13	-3.32	-25.00	-15.41
857.410	-38.14	-38.8	4.58	-3.92	-25.00	-13.14
5017.400	-47.46	-49.03	12.53	-10.96	-25.00	-22.46
7526.100	-46.40	-44.04	11.25	-13.61	-25.00	-21.40

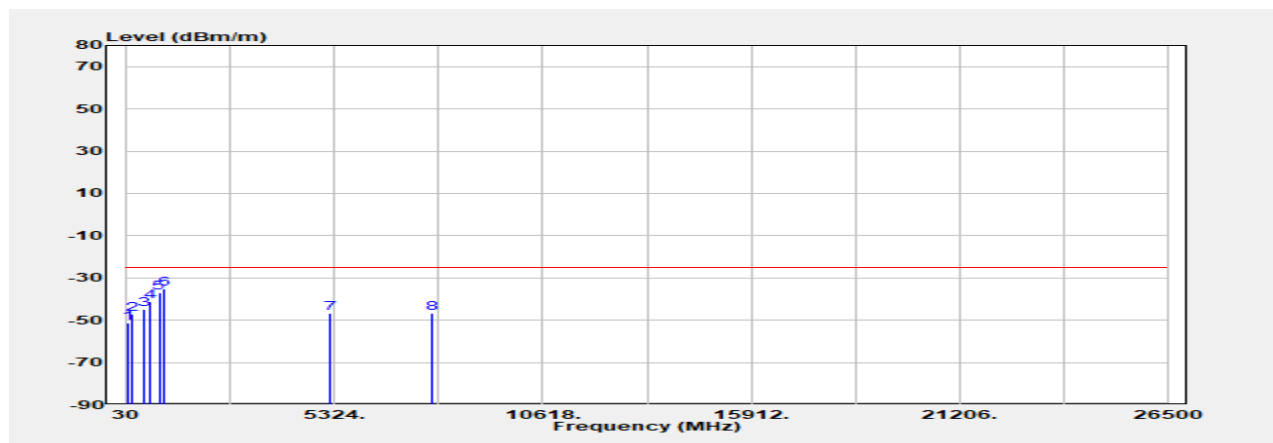
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Report Number :TERF2204000398E2
Operation Mode :41C
Test Mode :Tx CH MID
EUT Pol :E1 Plane
Test Frequency :2583.6 MHz + 2598 MHz

Test Site :SAC G
Test Date :2022-06-10
Temp./Humi. :21.7/70
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-51.29	-39.18	-9.56	-2.55	-25.00	-26.29
186.170	-47.30	-46.96	2.59	-2.93	-25.00	-22.30
472.320	-44.90	-46.01	4.14	-3.03	-25.00	-19.90
612.970	-41.12	-41.65	3.45	-2.92	-25.00	-16.12
849.650	-36.98	-37.84	4.65	-3.79	-25.00	-11.98
988.360	-35.09	-34.5	3.96	-4.55	-25.00	-10.09
5181.600	-46.82	-48.42	12.75	-11.15	-25.00	-21.82
7772.400	-46.67	-44.91	11.86	-13.62	-25.00	-21.67

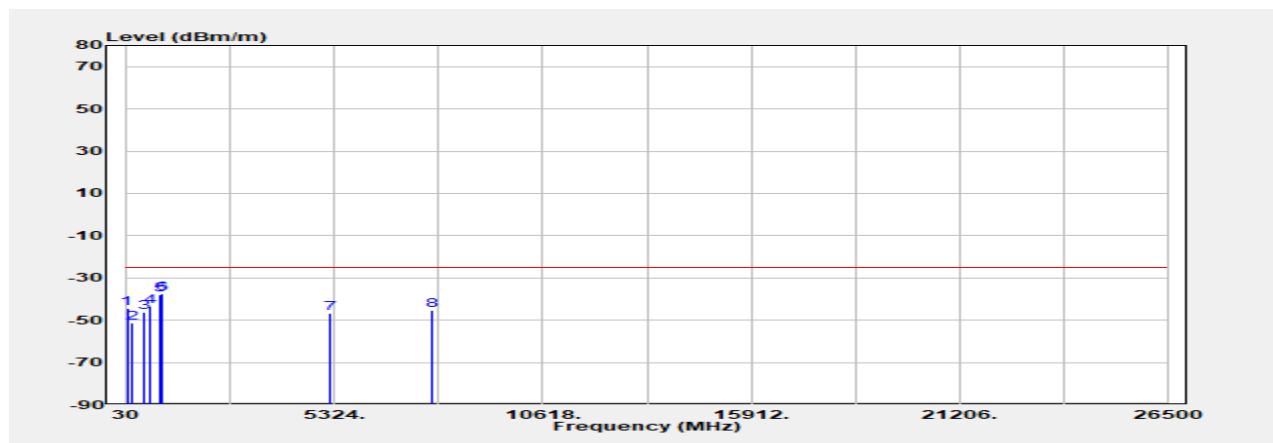
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Report Number :TERF2204000398E2
Operation Mode :41C
Test Mode :Tx CH MID
EUT Pol :E1 Plane
Test Frequency :2583.6 MHz + 2598 MHz

Test Site :SAC G
Test Date :2022-06-10
Temp./Humi. :21.7/70
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
35.820	-44.38	-28.28	-13.69	-2.41	-25.00	-19.38
178.410	-51.44	-49.63	1.07	-2.88	-25.00	-26.44
462.620	-46.11	-47.42	4.11	-2.80	-25.00	-21.11
610.060	-43.53	-44.47	3.47	-2.80	-25.00	-18.53
857.410	-38.14	-38.8	4.58	-3.92	-25.00	-13.14
950.530	-37.70	-37.07	3.80	-4.43	-25.00	-12.70
5181.600	-46.72	-48.32	12.75	-11.15	-25.00	-21.72
7772.400	-45.19	-43.43	11.86	-13.62	-25.00	-20.19

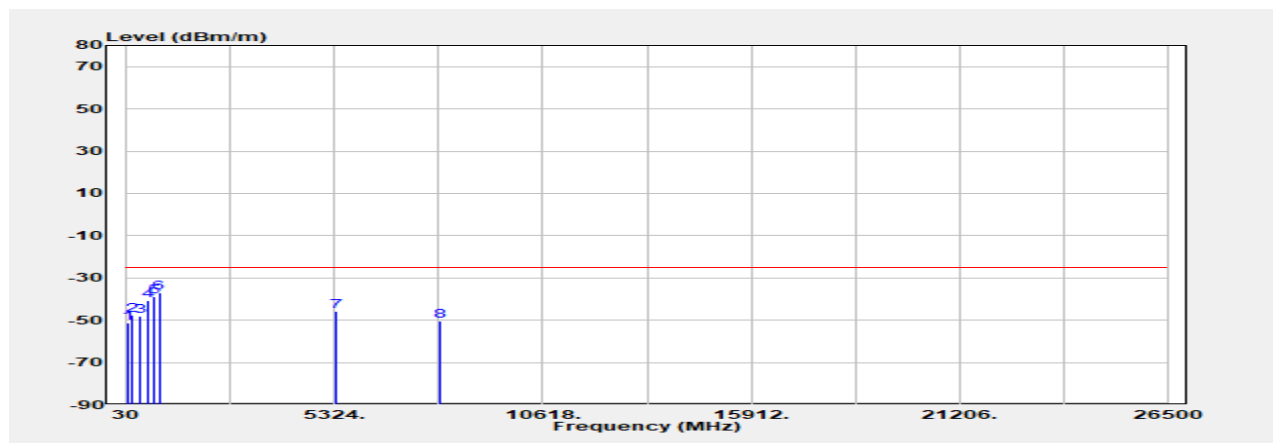
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Report Number :TERF2204000398E2
Operation Mode :41C
Test Mode :Tx CH HIGH
EUT Pol :E1 Plane
Test Frequency :2665.6 MHz + 2680 MHz

Test Site :SAC G
Test Date :2022-06-10
Temp./Humi. :21.7/70
Antenna Pol. :Vertical
Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
60.070	-51.29	-39.18	-9.56	-2.55	-25.00	-26.29
161.920	-47.40	-43.55	-1.05	-2.80	-25.00	-22.40
348.160	-47.94	-49.17	4.50	-3.27	-25.00	-22.94
552.830	-40.64	-41.76	4.22	-3.10	-25.00	-15.64
727.430	-38.78	-38.05	3.15	-3.88	-25.00	-13.78
849.650	-36.98	-37.84	4.65	-3.79	-25.00	-11.98
5345.600	-45.62	-47.67	13.39	-11.34	-25.00	-20.62
8018.400	-50.32	-47.49	11.16	-13.99	-25.00	-25.32

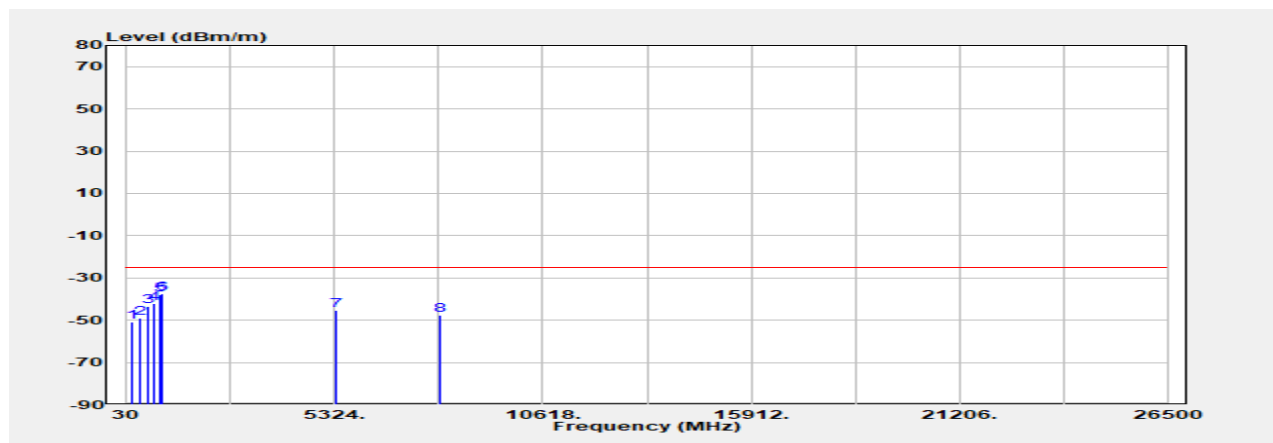
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Report Number :TERF2204000398E2
Operation Mode :41C
Test Mode :Tx CH HIGH
EUT Pol :E1 Plane
Test Frequency :2665.6 MHz + 2680 MHz

Test Site :SAC G
Test Date :2022-06-10
Temp./Humi. :21.7/70
Antenna Pol. :Horizontal
Engineer :Quentin Liu



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
154.160	-50.68	-46.45	-1.41	-2.82	-25.00	-25.68
350.100	-48.79	-50.08	4.54	-3.25	-25.00	-23.79
551.860	-43.68	-44.8	4.20	-3.08	-25.00	-18.68
706.090	-42.08	-42.22	3.49	-3.35	-25.00	-17.08
857.410	-38.14	-38.8	4.58	-3.92	-25.00	-13.14
950.530	-37.70	-37.07	3.80	-4.43	-25.00	-12.70
5345.600	-45.53	-47.58	13.39	-11.34	-25.00	-20.53
8018.400	-47.46	-44.63	11.16	-13.99	-25.00	-22.46

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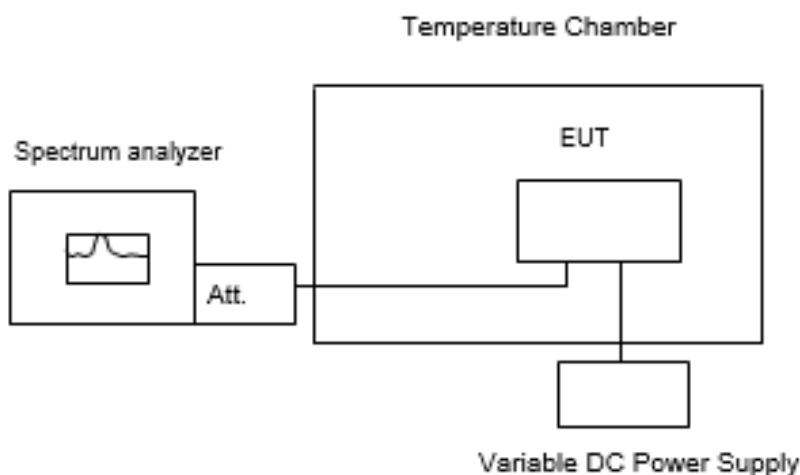
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11 FREQUENCY STABILITY MEASUREMENT

11.1 Standard Applicabl

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

11.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

11.3 Measurement Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Set chamber temperature to 25°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint as declared by the manufacturer, record the maximum frequency change.

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11.4 Measurement Result

Note: The battery is rated 3.8Vdc.

Reference Freq.:	LTE CAB41: Mid Channel (MHz)		2593
	Channel Bandwidth:		20MHz+20MHz
Power Supply Vdc	Temp. (°C)	Frequency (MHz)	Frequency Error (ppm)
Freq. ERROR vs. VOLTAGE			
4.37	25	2593.000014	0.0055
3.8	25	2593.000013	0.0048
3.23	25	2592.999997	-0.0010
3.4	25	2593.000014	0.0054
(End Point)			
Freq. ERROR vs. Temp.			
3.8	-30	2593.000005	5.1000
3.8	-20	2592.999993	-6.7000
3.8	-10	2592.999998	-1.7000
3.8	0	2592.999997	-2.6000
3.8	10	2593.000015	14.9000
3.8	20	2592.999983	-17.5000
3.8	30	2593.000017	16.9000
3.8	40	2592.999994	-6.1000
3.8	50	2593.000019	18.5000

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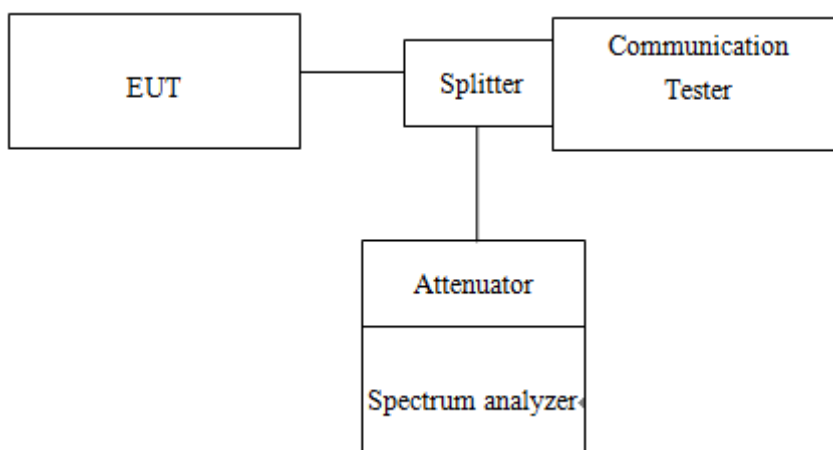
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12 PEAK TO AVERAGE RATIO

12.1 Standard Applicable

The peak-to-average ratio (PAR) of the transmission may not exceed 13dB.

12.2 Test SET-UP



12.3 Measurement Procedure

1. KDB 971168 D01 is employed as the following procedure is proper adjusted accordingly:
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth; & internal = 1ms
3. Set the number of counts to a value that stabilizes the measured CCDF curve.

12.4 Measurement Result

LTE BAND 41C

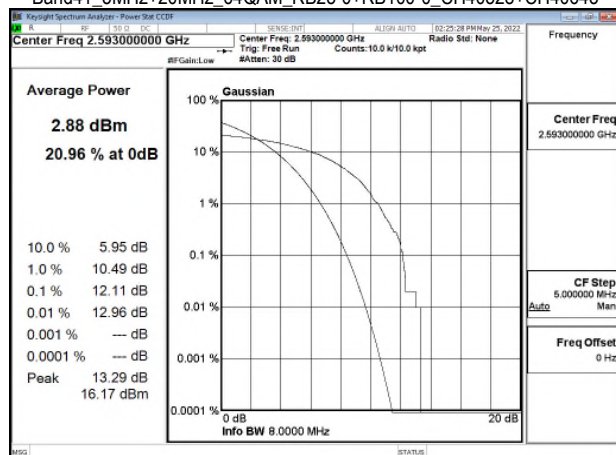
Band	Bandwidth	RB Allocation/RB Offset	Frequency (MHz)	PAPR (dB)	
				64QAM	Limit
LTE BAND 41C	5MHz + 20MHz	25/0 + 100/0	2593.0	12.110	13
LTE BAND 41C	20MHz + 5MHz	100/0 + 25/0	2593.0	7.750	13
LTE BAND 41C	10MHz + 20MHz	50/0 + 100/0	2593.0	7.610	13
LTE BAND 41C	20MHz + 10MHz	100/0 + 50/0	2593.0	11.110	13
LTE BAND 41C	15MHz + 15MHz	75/0 + 75/0	2593.0	7.720	13
LTE BAND 41C	15MHz + 20MHz	75/0 + 100/0	2593.0	8.490	13
LTE BAND 41C	20MHz + 15MHz	100/0 + 75/0	2593.0	11.800	13
LTE BAND 41C	20MHz + 20MHz	100/0 + 100/0	2593.0	11.110	13

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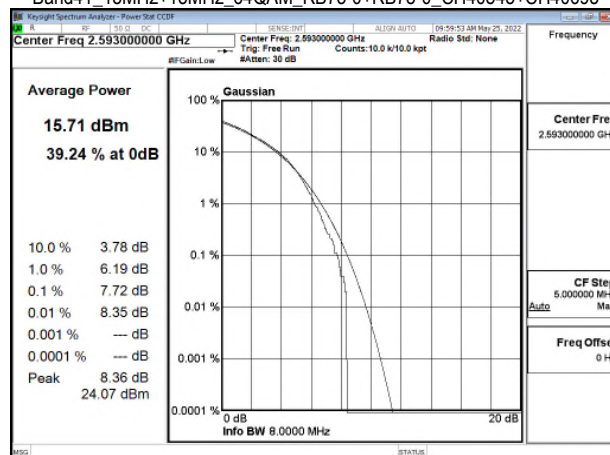
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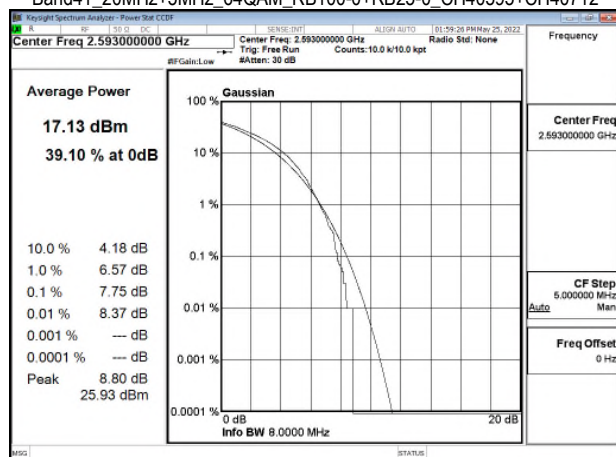
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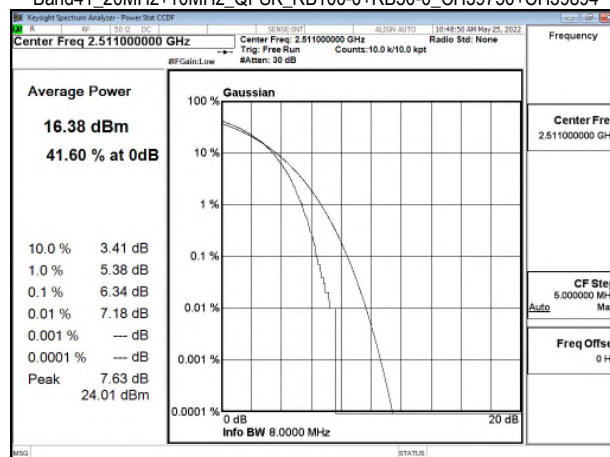
Band41_15MHz+15MHz_64QAM_RB75-0+RB75-0_CH40545+CH40695



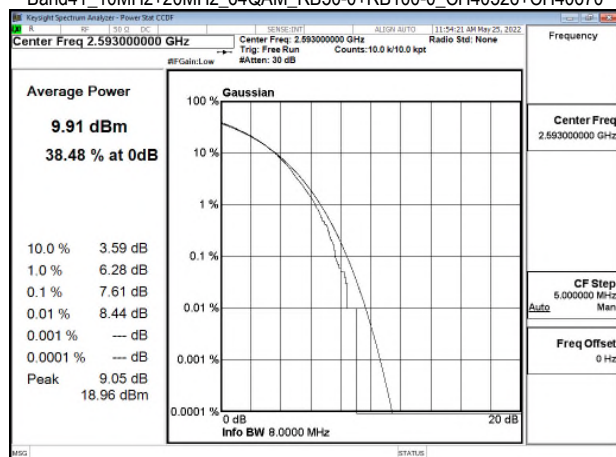
Band41_20MHz+5MHz_64QAM_RB100-0+RB25-0_CH40595+CH40712



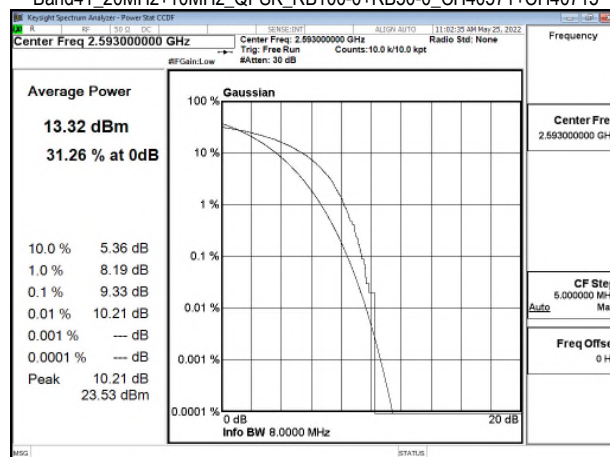
Band41_20MHz+10MHz_QPSK_RB100-0+RB50-0_CH39750+CH39894



Band41_10MHz+20MHz_64QAM_RB50-0+RB100-0_CH40526+CH40670



Band41_20MHz+10MHz_QPSK_RB100-0+RB50-0_CH40571+CH40715

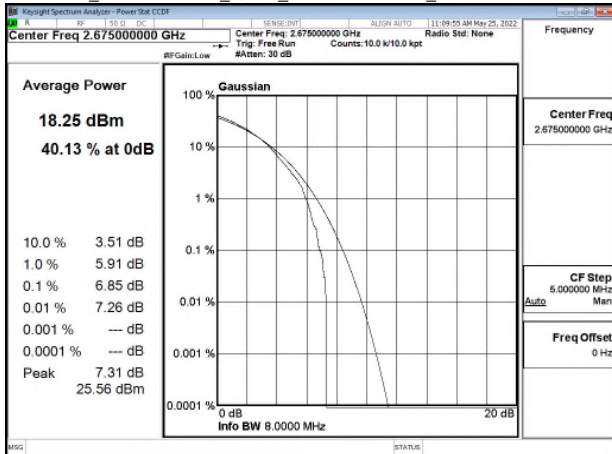


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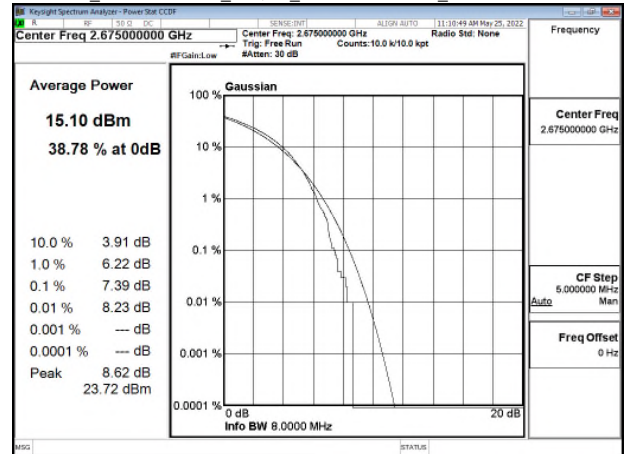
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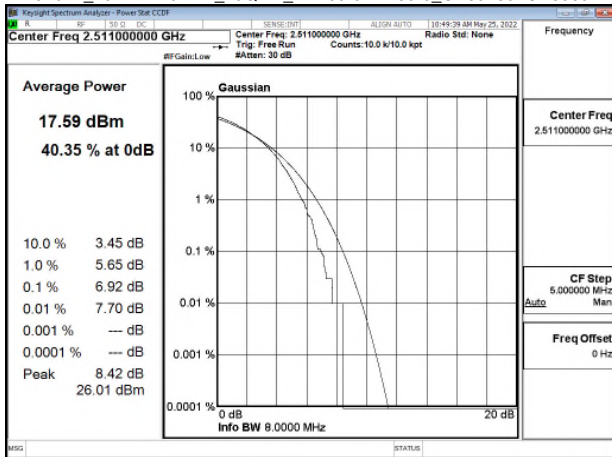
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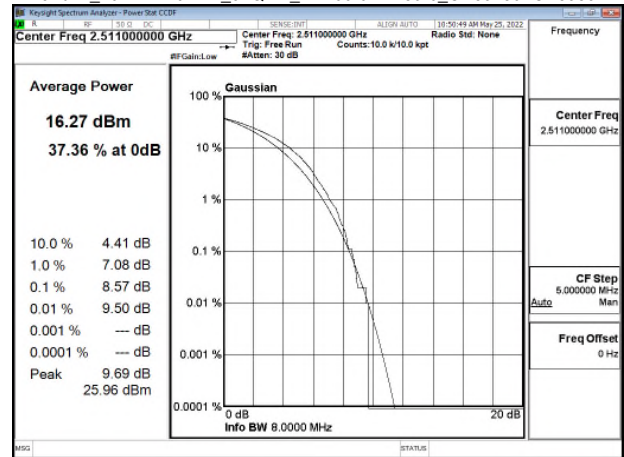
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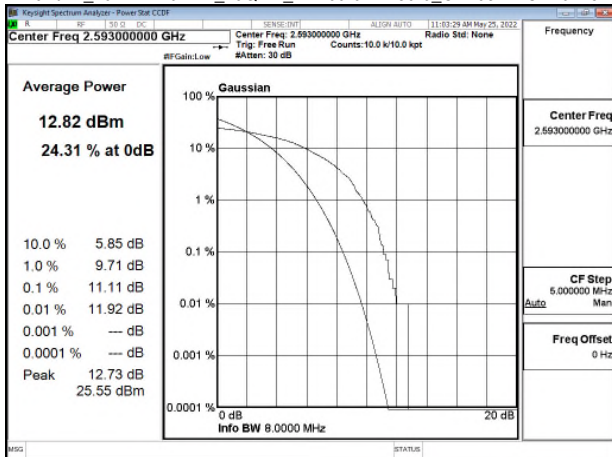
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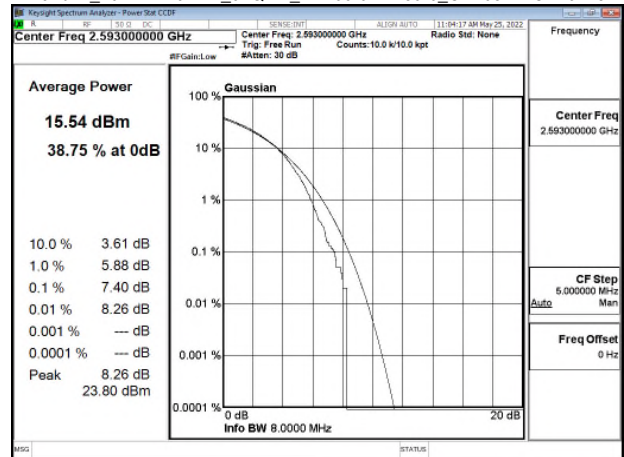
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Band41_20MHz+10MHz_16QAM_RB100-0+RB50-0_CH40571+CH40715



Band41_20MHz+10MHz_64QAM_RB100-0+RB50-0_CH40571+CH40715

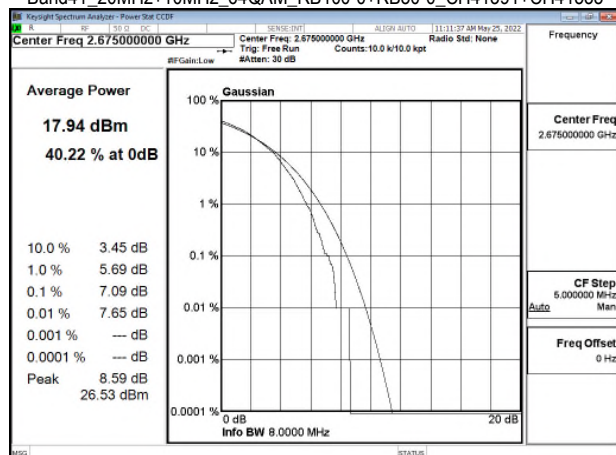


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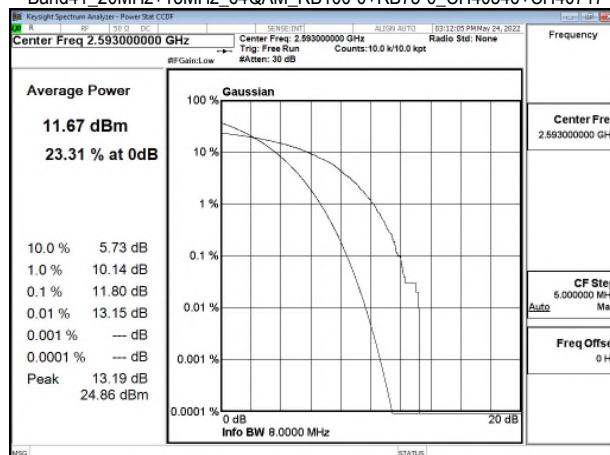
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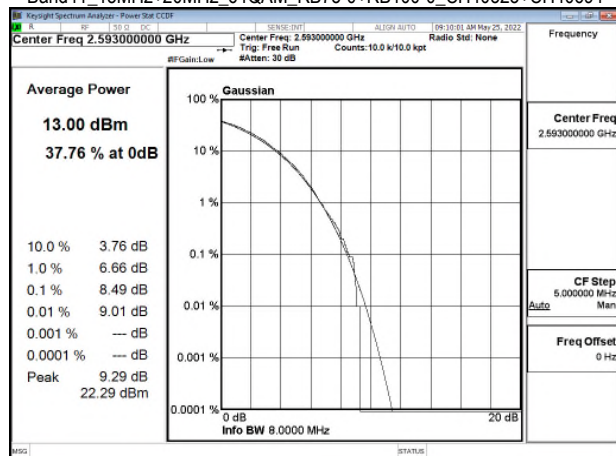
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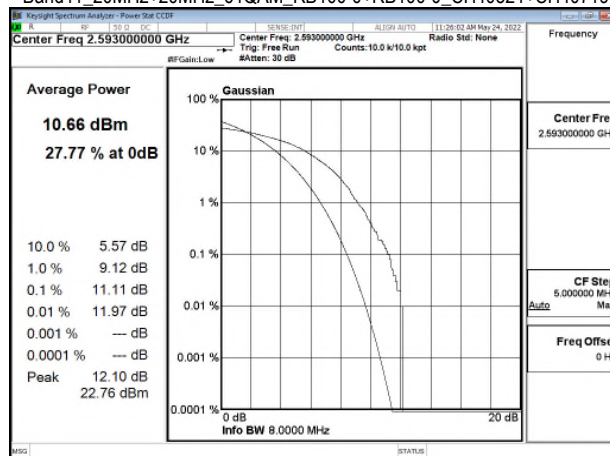
Band41_20MHz+15MHz_64QAM_RB100-0+RB75-0_CH40546+CH40717



Band41_15MHz+20MHz_64QAM_RB75-0+RB100-0_CH40523+CH40694



Band41_20MHz+20MHz_64QAM_RB100-0+RB100-0_CH40521+CH40719



~ End of Report ~

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