

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_I003D

Model Difference: N/A

Report Number: ER/2020/30174

FCC ID MSQI003D

IC: 3568A-I003D

FCC Rule Part: 2, 27

ISED Rule: RSS-199

Issue Date: Sep. 07, 2020

Date of Test: Jul. 16, 2020 ~ Jul. 22, 2020

Date of EUT Received: May 06, 2020

We hereby certify that:

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

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

Approved By:

Jazz Huang

Jazz Huang / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Issue Date	Remark
ER/2020/30174	Rev.00	Original.	Sep. 07, 2020	Revised By: Violetta Tang

Note:

1、Disclaimer

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

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

General:

Product Name:	ASUS Phone (Mobile Phone)	
Brand Name:	ASUS	
Model No.:	ASUS_I003D	
Model Difference:	N/A	
Hardware Version:	R2.0B	
Software Version:	Android Q	
AJ Dongle:	Model No.: F370002, Supplier: MEILU	
Fan Dongle:	Model No.: I003, Supplier: ASUS	
USB Cable:	Model No.: LA9U2015-CS-R, Supplier: ASAP	
Power Supply:	3.85Vdc from Rechargeable Li-polymer Battery or 5V / 9V / 12V / 15V / 20V from AC/DC Adapter	
	Battery:	Model No.: C11P1903, Supplier: SCUD
	Adapter:	Model No.: A299-200150U-US, Supplier: AOHAI
IMEI:	355306110093970 / 355306110093988 (Conducted) 355306110094390 (Radiated)	

1.2 Operation Frequency Range

Band	BW (MHz)	Operation Frequency (MHz)	
41A_n41	60	2506.2	- 2649.90
	80	2506.2	- 2639.91
	100	2506.2	- 2629.89
	120	2506.2	- 2619.90

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1.3 Antenna Designation

Antenna Type	Antenna Model No.
PIFA	Ant1
	Ant9
	Ant11
Note: The EUT equipped with 7 WWAN antennas, however, transmission of 5G NR bands are available by Ant1, Ant9 and Ant11.	

Operating Frequency (MHz)		Ant 1 Peak Gain (dBi)	Ant 9 Peak Gain (dBi)	Ant 11 Peak Gain (dBi)
LTE-Band 41	2496 ~ 2690	-3.0	N/A	N/A
NR Band 41	2496 ~ 2690	N/A	-2.9	-3.8

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

Band	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	
41A_n41	DFT	BPSK	20.37	EIRP	0.109	117.230	117MG7W
		QPSK	20.15	EIRP	0.104	118.080	118MG7W
		16QAM	19.86	EIRP	0.097	118.390	118MD7W
		64QAM	19.69	EIRP	0.093	118.400	118MD7W
		256QAM	19.09	EIRP	0.081	118.550	119MD7W
	CP	QPSK	19.67	EIRP	0.093	117.410	117MG7W
		16QAM	19.58	EIRP	0.091	117.300	117MD7W
		64QAM	19.47	EIRP	0.089	117.350	117MD7W
		256QAM	18.83	EIRP	0.076	117.360	117MD7W

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1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 27.

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

1.6 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 0513)

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

FCC Designation number: TW0027

ISED CAB identifier: TW3702

1.7 Special Accessories

No special accessories were used during testing.

1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

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

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

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

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

2.4 Measurement Results Explanation Example

For all conducted test items:

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

Note:

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

RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
1.4	10	11.4

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2.5 Final Amplifier Voltage and Current Information:

Band	DC voltage (V)	DC current (mA)
41A_n41	3.85	577

2.6 Configuration of Tested System

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

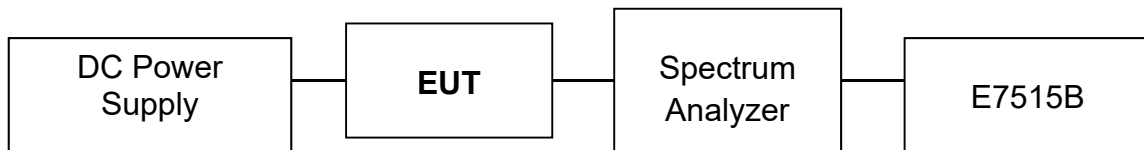


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

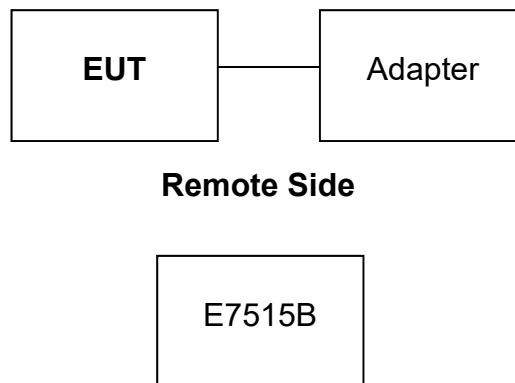


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	UXM 5G	KEYSIGHT	E7515B	MY59321561	shielded	Un-shielded

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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)(4)	RSS-GEN §6.13 RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §27.53(m)(4)	RSS-GEN §6.13 RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§27.50(a)(1)(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 Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Evaluation has been done on all antennas in below table,
 - a. For LTE B41 the Ant. 1 results higher emissions,
 - b. For 5G NR n41 the Ant. 9 results higher emissions
 therefore, only measurement results of the Lower antenna are demonstrated in this test report.

Mode	Bands	Upper Antenna	Lower Antenna
LTE	Band 41	N/A	1
5G NR	n41	11	9

- 3 The EUT only supports with below SCS and Bandwidth in each 5G NR Band.

BAND	SCS (kHz)	Bandwidth (MHz)
41A_n41	30	60, 80, 100, 120

- 4 Due to each single LTE Band transmission generates higher power than the LTE transmission in ENDC mode, the test results of each single LTE band transmission are demonstrated in the test report ER/2020/30083 as the worst case scenarios.
- 5 Due to n41 Band standalone mode (SA) transmission generates higher power than the ENDC mode, the test results of n41 SA mode transmission is demonstrated in the test report ER/2020/30085 as the worst case scenarios.
- 6 Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	H PLAN	E1 PLAN	E2 PLAN
41A_n41		V	

- 7 The worst case scenarios are determined by the ENDC combinations that generate the highest output power, the peak to average ratio and unwanted emission test results are only be presented with the ENDC combinations of the worst case.
- 8 ENDC RSE test results are only demonstrated with the worst case determined by the EIRP test result in section 6.6.1 of this report.
- 9 Each available modulation and channel combination have been evaluated and the DFT-s-OFDM Pi/2 BPSK and DFT-s-OFDM QPSK with middle channel combination result higher EIRP, therefore, the intra-band non-contiguous EIRP results are demonstrated with the 2 modulations.
- 10 PAR is presented with worst case scenario that determined by single LTE Band transmission and SA mode transmission of n41 in test report ER/2020/30083 and ER/2020/30085.

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4.2 Measurement Configuration

4.2.1 ENDC conducted measurements

Test Items	Band	Test Channel			Bandwidth (MHz)				CP-OFDM Modulation				DFT-OFDM Modulation				RB #			
		L	M	H	60	80	100	120	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM	Edge left	Edge right	Full
Max. Output Power	41A_n41	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Frequency Stability	41A_n41		v					v	v											v
Test Items	Band	Test Channel			Bandwidth (MHz)				CP-OFDM Modulation				DFT-OFDM Modulation				RB #			
		L	M	H	60	80	100	120	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM	Edge left	Edge right	Full
26dB and 99% Bandwidth	41A_n41	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v	v			v
Peak-to-Average Ratio	41A_n41		v					v				v								v
Test Items	Band	Test Channel			Bandwidth (MHz)				CP-OFDM Modulation				DFT-OFDM Modulation				RB #			
		L	M	H	60	80	100	120	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM	Edge left	Edge right	Full
Mask	41A_n41	v		v	v	v	v	v	v				v					v	v	v
Test Items	Band	Test Channel			Bandwidth (MHz)				CP-OFDM Modulation				DFT-OFDM Modulation				RB #			
		L	M	H	60	80	100	120	QPSK	16QAM	64QAM	256QAM	BPSK	QPSK	16QAM	64QAM	256QAM	Edge left	Edge right	Full
Conducted Emission	41A_n41	v	v	v			v						v					v		v

4.2.2 ENDC Radiated Emission

41A_n41(intra-band contiguous)						
E-UTRA Band	SCS	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
					RBs allocated	RB Start
41A_n41	30K	41021+516618	20+80	DFT-S-OFDM Pi/2 BPSK	Full	
41A_n41(intra-band non-contiguous)						
E-UTRA Band	SCS	Test Channel	Channel Bandwidth (MHz)	Modulation	Resource Block Allocation	
					RBs allocated	RB Start
41A_n41	30K	41489+507240	20+40	DFT-S-OFDM Pi/2 BPSK	Full	

4.2.3 Frequency Band

List of frequency bands mentioned in the measurement configuration, for comparison with 3GPP, please refer to the following table.

Band	3GPP inter-EN-DC configuration in FR1
41A_n41	DC_41A_n41A

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission:

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

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

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

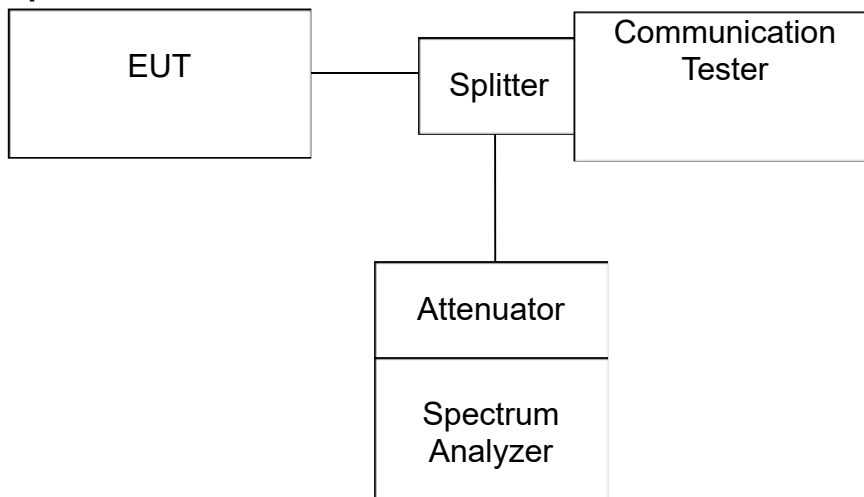
FCC 27.50(h)

(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

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.

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.

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

According to KDB 412172 D01 Power Approach,

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

$$ERP = EIRP - 2.15,$$

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)²), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);

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

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

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

6.5 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBDA	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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6.6 Measurement Results:

6.6.1 ENDC Mode

Antenna gain (dBi)											
-2.9											
41A + n41A(intra-band contiguous)											
Modulation	BW	SCS	RB	41 CH	n41CH	Power 41	Power N41	Total power	EIRP	EIRP limit	Margin
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.92	19.49	23.27	20.37	33	-12.63
DFT-S-OFDM QPSK	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.88	18.99	23.05	20.15	33	-12.85
DFT-S-OFDM 16QAM	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.89	18.19	22.76	19.86	33	-13.14
DFT-S-OFDM 64QAM	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.9	17.66	22.59	19.69	33	-13.31
DFT-S-OFDM 256QAM	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.91	15.40	21.99	19.09	33	-13.91
CP-OFDM QPSK	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.94	17.53	22.57	19.67	33	-13.33
CP-OFDM 16QAM	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.9	17.33	22.48	19.58	33	-13.42
CP-OFDM 64QAM	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.89	16.97	22.37	19.47	33	-13.53
CP-OFDM 256QAM	LTE 20 + NR Max	30K	FULL	Mid CH41120	Mid CH516600	20.9	14.13	21.73	18.83	33	-14.17
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR Max	30K	1RB Left	Mid CH41120	Mid CH516600	20.88	16.97	22.36	19.46	33	-13.54
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR Max	30K	1RB Righth	Mid CH41120	Mid CH516600	20.91	16.37	22.22	19.32	33	-13.68
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR 80	30K	FULL	Mid CH41021	Mid CH516618	20.98	20.81	23.91	21.01	33	-11.99
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR 60	30K	FULL	Mid CH40919	Mid CH516582	20.94	19.99	23.50	20.60	33	-12.40
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR 40	30K	FULL	Mid CH40820	Mid CH516600	20.95	20.69	23.83	20.93	33	-12.07
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR 80	30K	FULL	Low CH39752	Low CH511242	20.91	20.55	23.74	20.84	33	-12.16
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR 80	30K	FULL	High CH41489	High CH525978	20.92	20.51	23.73	20.83	33	-12.17
41A _ n41(intra-band non-contiguous)											
Modulation	BW	SCS	RB	41A CH	n41CH	Power 41A	Power N41	Total power	EIRP	EIRP limit	Margin
DFT-S-OFDM Pi/2 BPSK	NR 100 + LTE 20	30K	FULL	High CH 41489	Low CH 513240	21.01	20.06	23.57	20.67	33	-12.33
DFT-S-OFDM Pi/2 BPSK	NR 80 + LTE 20	30K	FULL	High CH 41489	Low CH 511242	20.94	20.57	23.77	20.87	33	-12.13
DFT-S-OFDM QPSK	NR 60 + LTE 20	30K	FULL	High CH 41489	Low CH 509238	20.95	20.04	23.53	20.63	33	-12.37
DFT-S-OFDM QPSK	NR 40 + LTE 20	30K	FULL	High CH 41489	Low CH 507240	20.93	20.85	23.90	21.00	33	-12.00
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR 100	30K	FULL	Low CH 39752	High CH 523980	20.95	20.47	23.73	20.83	33	-12.17
DFT-S-OFDM Pi/2 BPSK	LTE 20 + NR 80	30K	FULL	Low CH 39752	High CH 525978	20.9	20.19	23.57	20.67	33	-12.33
DFT-S-OFDM QPSK	LTE 20 + NR 60	30K	FULL	Low CH 39752	High CH 527982	20.92	20.21	23.59	20.69	33	-12.31
DFT-S-OFDM QPSK	LTE 20 + NR 40	30K	FULL	Low CH 39752	High CH 529980	20.94	20.34	23.66	20.76	33	-12.24

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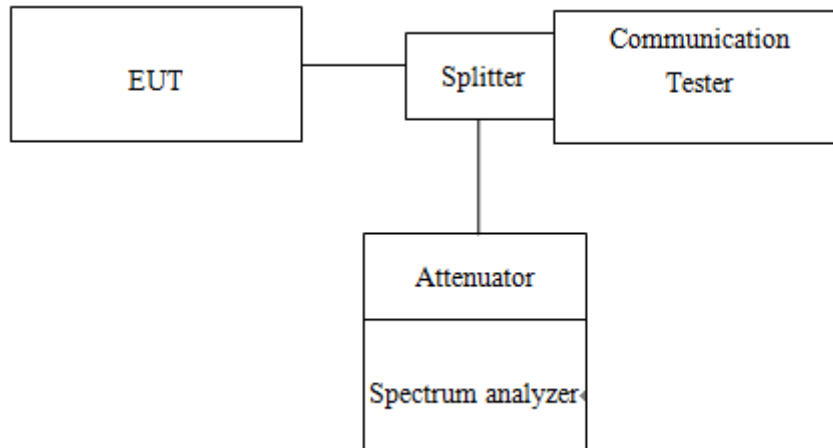
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7 OCCUPIED BANDWIDTH MEASUREMENT

7.1 Standard Applicable

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

7.2 Test Set-up



7.3 Measurement Procedure

99% & 26dB Bandwidth with detector peak

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

99% Bandwidth with detector sample

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

7.4 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40000811	12/23/2019	12/22/2020
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	02/20/2020	02/19/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2020	01/01/2021
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2020	01/01/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	01/02/2020	01/01/2021

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7.5 Measurement Result

Each bandwidth has been evaluated with the modulation that generated highest output power.

5G NR 41A_n41								
DFT-S-OFDM_SCS 30 kHz								
Bandwidth (MHz)		RB Size / RB Offset		Frequency (MHz)		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	100 / 0	2506.2	2536.20	BPSK	55.317	57.32
				2613.0	2583.00		57.220	59.82
				2679.9	2649.90		57.554	59.64
20	60	100 / 0	162 / 0	2506.2	2546.19	BPSK	77.265	80.34
				2622.9	2582.91		77.222	80.20
				2679.9	2639.91		77.308	80.25
20	80	100 / 0	216 / 0	2506.2	2556.21	BPSK	96.657	99.86
				2633.1	2583.09		97.182	100.40
				2679.9	2629.89		97.054	100.30
20	100	100 / 0	270 / 0	2506.2	2566.20	BPSK	116.120	119.30
				2643.0	2583.00		117.230	120.70
				2679.9	2619.90		117.010	120.50
5G NR 41A_n41								
DFT-S-OFDM_SCS 30 kHz								
Bandwidth		RB Size / RB Offset		Frequency		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	100 / 0	2506.2	2536.20	QPSK	55.402	57.74
				2613.0	2583.00		57.600	59.94
				2679.9	2649.90		57.634	60.07
20	60	100 / 0	162 / 0	2506.2	2546.19	QPSK	77.167	79.92
				2622.9	2582.91		77.331	80.15
				2679.9	2639.91		77.482	80.11
20	80	100 / 0	216 / 0	2506.2	2556.21	QPSK	96.498	99.95
				2633.1	2583.09		97.300	100.50
				2679.9	2629.89		97.212	100.50
20	100	100 / 0	270 / 0	2506.2	2566.20	QPSK	115.770	119.20
				2643.0	2583.00		117.120	122.80
				2679.9	2619.90		118.080	120.70

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5G NR 41A_n41								
DFT-S-OFDM_SCS 30 kHz								
Bandwidth		RB Size / RB Offset		Frequency		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	100 / 0	2506.2	2536.20	16QAM	55.402	57.58
				2613.0	2583.00		57.375	59.81
				2679.9	2649.90		57.626	59.97
20	60	100 / 0	162 / 0	2506.2	2546.19	16QAM	77.157	80.02
				2622.9	2582.91		77.572	80.36
				2679.9	2639.91		77.510	80.36
20	80	100 / 0	216 / 0	2506.2	2556.21	16QAM	96.543	99.95
				2633.1	2583.09		97.347	100.80
				2679.9	2629.89		97.167	100.40
20	100	100 / 0	270 / 0	2506.2	2566.20	16QAM	115.260	119.20
				2643.0	2583.00		118.390	120.50
				2679.9	2619.90		118.210	120.50
5G NR 41A_n41								
DFT-S-OFDM_SCS 30 kHz								
Bandwidth		RB Size / RB Offset		Frequency		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	100 / 0	2506.2	2536.20	64QAM	55.233	57.58
				2613.0	2583.00		57.408	59.87
				2679.9	2649.90		57.548	59.85
20	60	100 / 0	162 / 0	2506.2	2546.19	64QAM	77.331	80.27
				2622.9	2582.91		77.476	80.17
				2679.9	2639.91		77.481	80.39
20	80	100 / 0	216 / 0	2506.2	2556.21	64QAM	96.831	100.10
				2633.1	2583.09		97.309	100.50
				2679.9	2629.89		97.182	100.70
20	100	100 / 0	270 / 0	2506.2	2566.20	64QAM	115.400	119.10
				2643.0	2583.00		118.400	120.20
				2679.9	2619.90		118.090	120.40

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5G NR 41A_n41								
DFT-S-OFDM_SCS 30 kHz								
Bandwidth		RB Size / RB Offset		Frequency		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	100 / 0	2506.2	2536.20	256QAM	54.994	57.55
				2613.0	2583.00		57.539	59.84
				2679.9	2649.90		57.592	59.71
20	60	100 / 0	162 / 0	2506.2	2546.19	256QAM	77.359	80.01
				2622.9	2582.91		77.641	80.47
				2679.9	2639.91		77.480	80.27
20	80	100 / 0	216 / 0	2506.2	2556.21	256QAM	96.603	100.00
				2633.1	2583.09		97.606	100.50
				2679.9	2629.89		97.526	100.60
20	100	100 / 0	270 / 0	2506.2	2566.20	256QAM	114.140	119.00
				2643.0	2583.00		118.460	120.50
				2679.9	2619.90		118.550	120.50

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5G NR 41A_n41								
CP-OFDM_SCS 30 kHz								
Bandwidth (MHz)		RB Size / RB Offset		Frequency (MHz)		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	106 / 0	2506.2	2536.20	QPSK	57.475	60.03
				2613.0	2583.00		57.460	59.97
				2679.9	2649.90		57.535	59.82
20	60	100 / 0	162 / 0	2506.2	2546.19	QPSK	77.484	80.34
				2622.9	2582.91		77.452	80.24
				2679.9	2639.91		77.465	79.94
20	80	100 / 0	217 / 0	2506.2	2556.21	QPSK	97.006	100.50
				2633.1	2583.09		97.348	100.90
				2679.9	2629.89		97.250	100.50
20	100	100 / 0	273 / 0	2506.2	2566.20	QPSK	116.270	120.30
				2643.0	2583.00		117.410	120.70
				2679.9	2619.90		117.120	120.60
5G NR 41A_n41								
CP-OFDM_SCS 30 kHz								
Bandwidth		RB Size / RB Offset		Frequency		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	106 / 0	2506.2	2536.20	16QAM	57.527	59.64
				2613.0	2583.00		57.483	59.88
				2679.9	2649.90		57.628	60.04
20	60	100 / 0	162 / 0	2506.2	2546.19	16QAM	77.317	80.21
				2622.9	2582.91		77.622	80.57
				2679.9	2639.91		77.557	80.27
20	80	100 / 0	217 / 0	2506.2	2556.21	16QAM	97.002	100.60
				2633.1	2583.09		97.573	100.90
				2679.9	2629.89		97.187	100.70
20	100	100 / 0	273 / 0	2506.2	2566.20	16QAM	116.000	120.10
				2643.0	2583.00		117.140	120.60
				2679.9	2619.90		117.300	120.50

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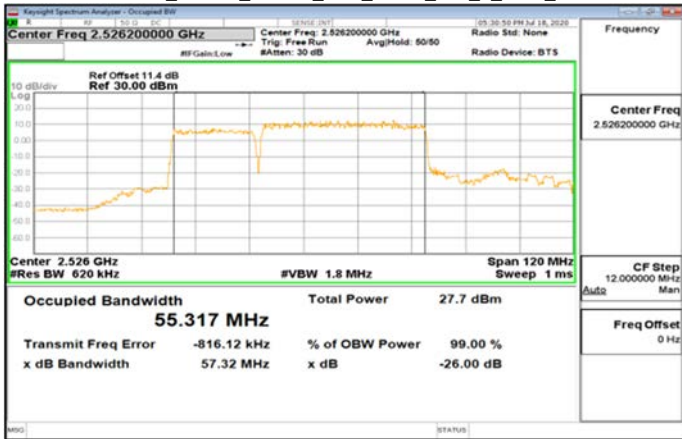
5G NR 41A_n41								
CP-OFDM_SCS 30 kHz								
Bandwidth		RB Size / RB Offset		Frequency		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	106 / 0	2506.2	2536.20	64QAM	57.512	59.65
				2613.0	2583.00		57.460	59.86
				2679.9	2649.90		57.544	59.70
20	60	100 / 0	162 / 0	2506.2	2546.19	64QAM	77.389	79.94
				2622.9	2582.91		77.543	80.69
				2679.9	2639.91		77.458	80.33
20	80	100 / 0	217 / 0	2506.2	2556.21	64QAM	97.107	100.50
				2633.1	2583.09		97.374	100.50
				2679.9	2629.89		97.247	100.70
20	100	100 / 0	273 / 0	2506.2	2566.20	64QAM	115.890	120.10
				2643.0	2583.00		117.210	120.50
				2679.9	2619.90		117.350	120.70
5G NR 41A_n41								
CP-OFDM_SCS 30 kHz								
Bandwidth		RB Size / RB Offset		Frequency		Modulation	99% BW (MHz)	26 dB BW (MHz)
LTE	NR	LTE	NR	LTE	NR			
20	40	100 / 0	106 / 0	2506.2	2536.20	256QAM	57.517	59.98
				2613.0	2583.00		57.556	59.69
				2679.9	2649.90		57.633	59.81
20	60	100 / 0	162 / 0	2506.2	2546.19	256QAM	77.521	80.11
				2622.9	2582.91		77.649	80.32
				2679.9	2639.91		77.544	80.35
20	80	100 / 0	217 / 0	2506.2	2556.21	256QAM	96.965	100.30
				2633.1	2583.09		97.544	100.40
				2679.9	2629.89		97.430	100.80
20	100	100 / 0	273 / 0	2506.2	2566.20	256QAM	114.380	120.00
				2643.0	2583.00		117.360	120.70
				2679.9	2619.90		117.170	120.50

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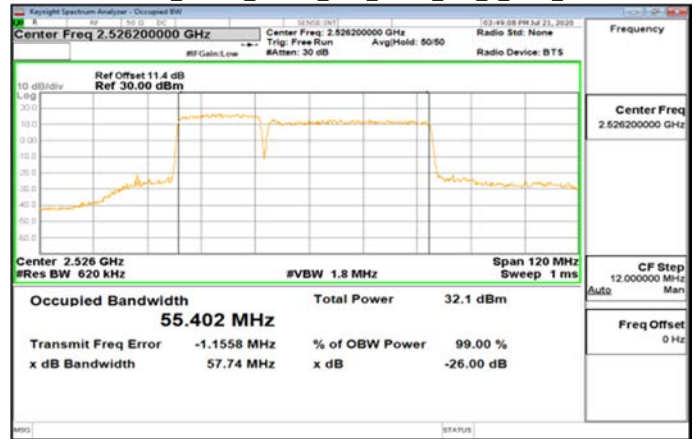
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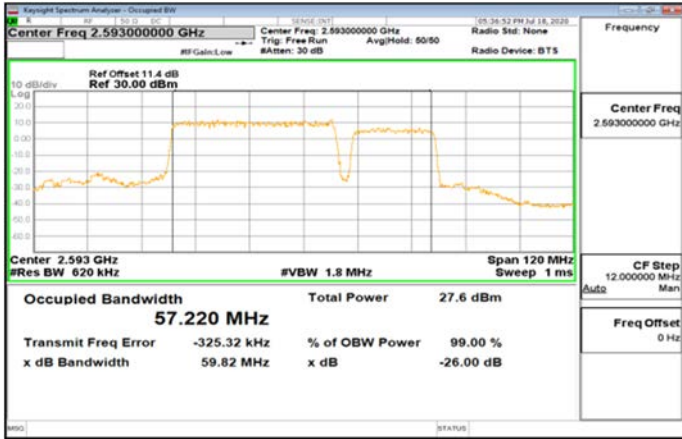
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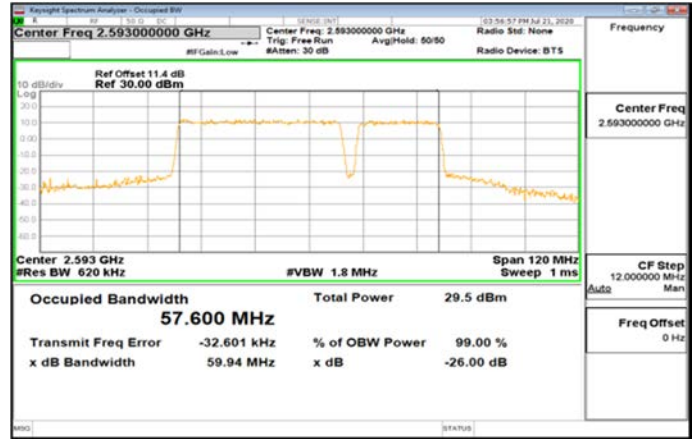
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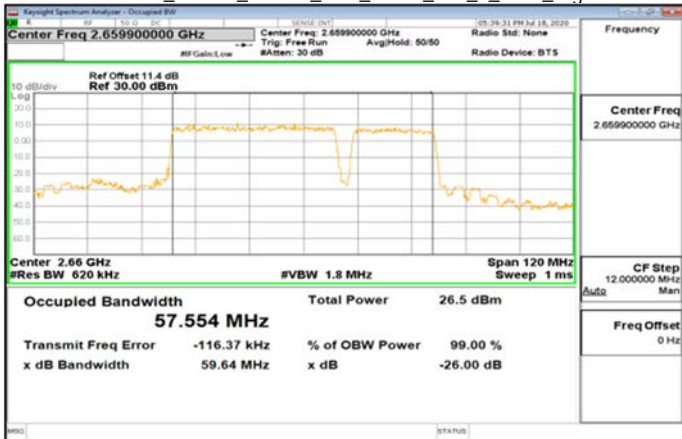
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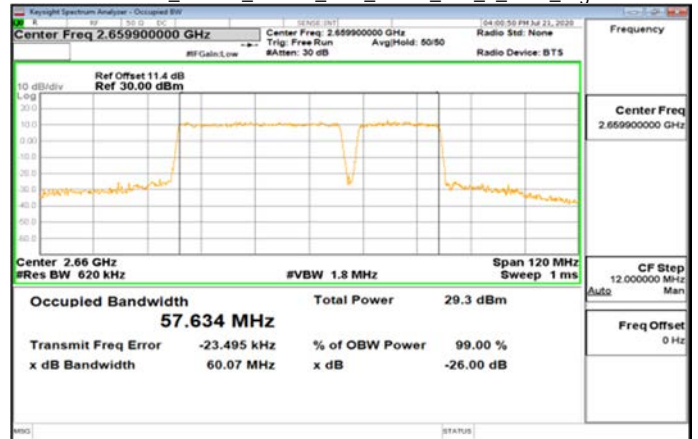
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Band41_20MHz_40MHz_DFT_BPSK_100_0_Main_High



Band41_20MHz_40MHz_DFT_QPSK_100_0_Main_High

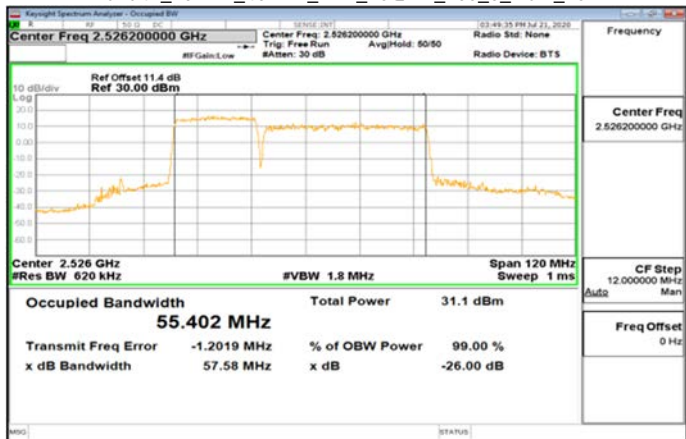


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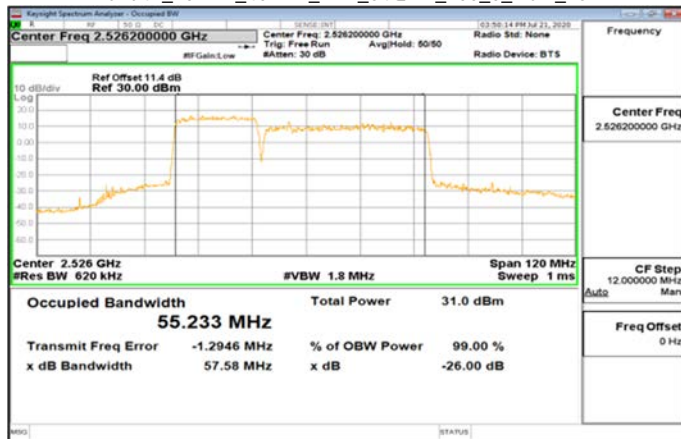
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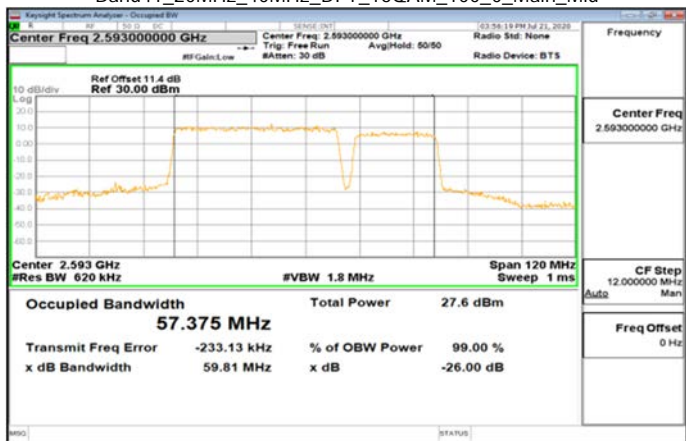
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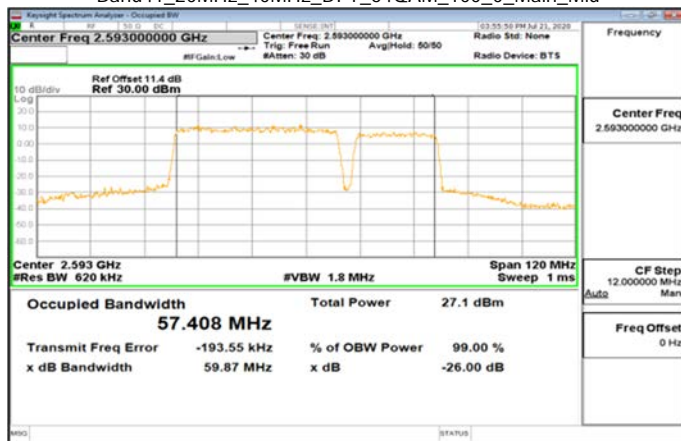
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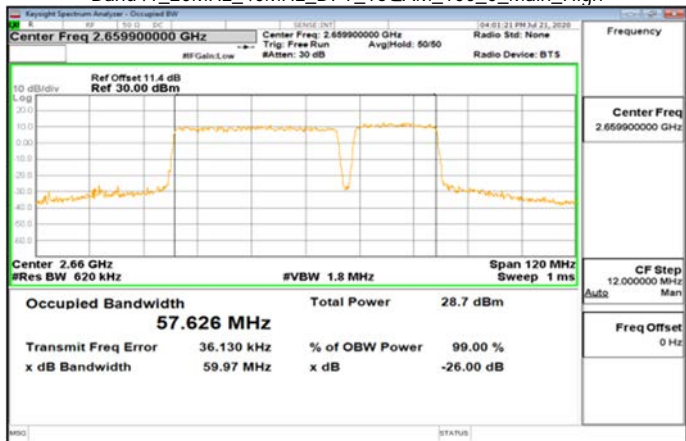
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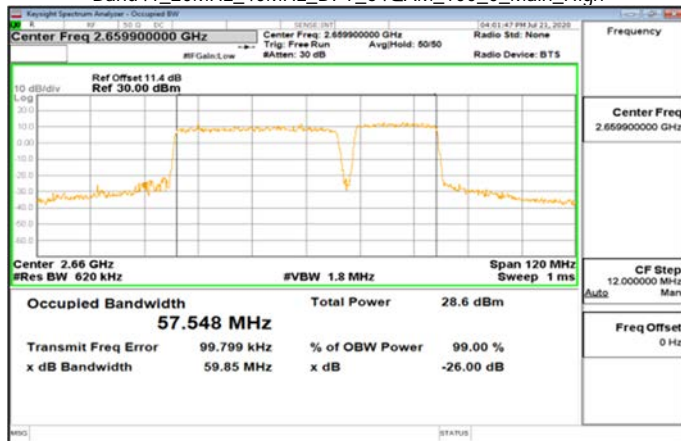
Band41_20MHz_40MHz_DFT_64QAM_100_0_Main_Mid



Band41_20MHz_40MHz_DFT_16QAM_100_0_Main_High



Band41_20MHz_40MHz_DFT_64QAM_100_0_Main_High

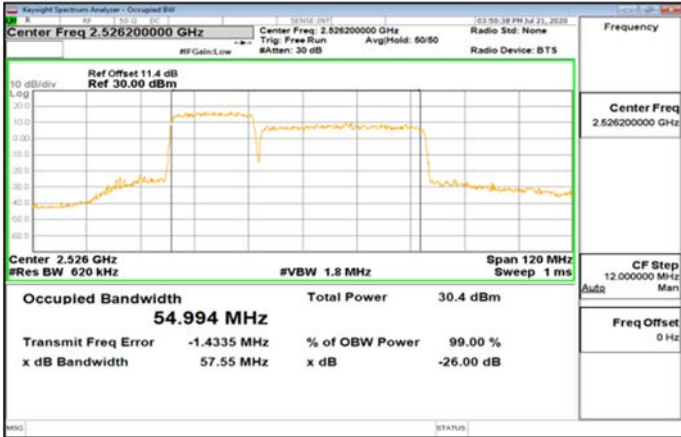


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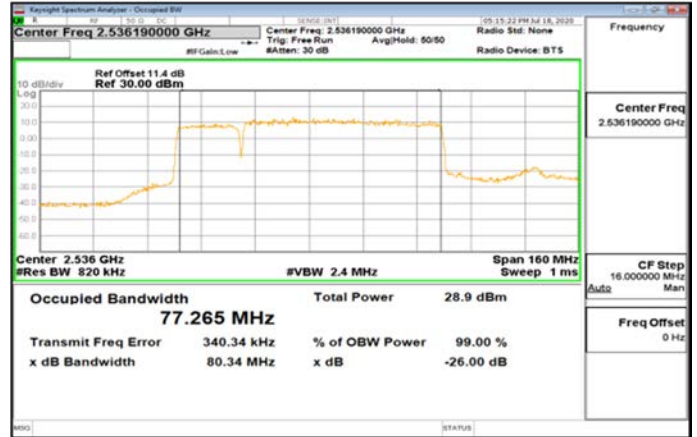
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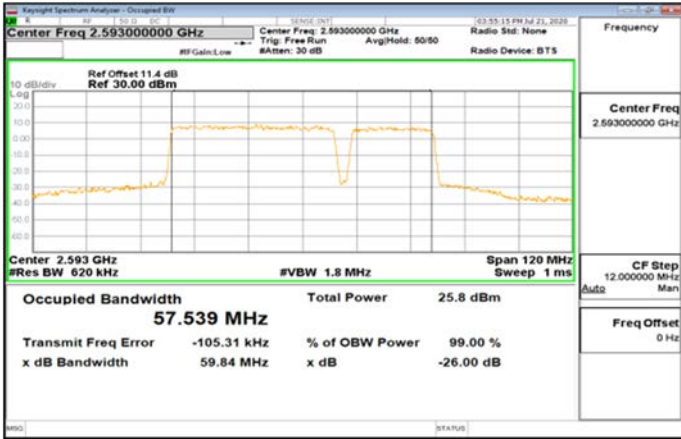
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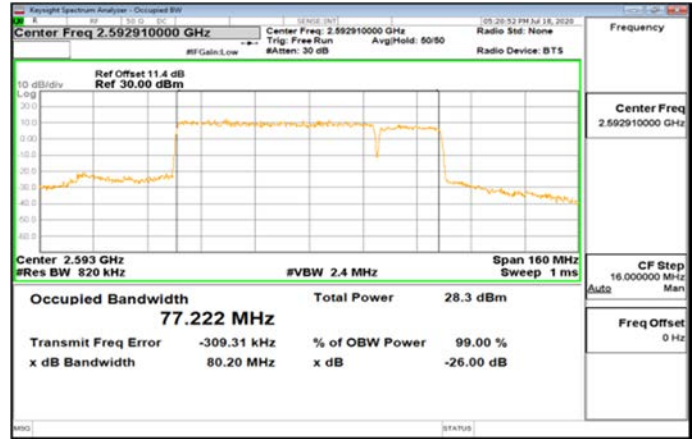
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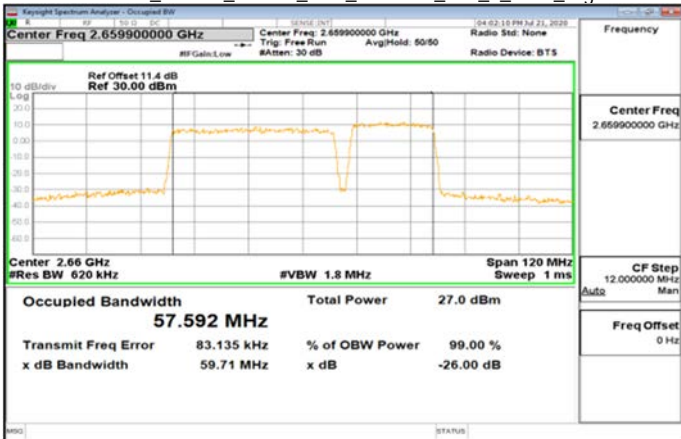
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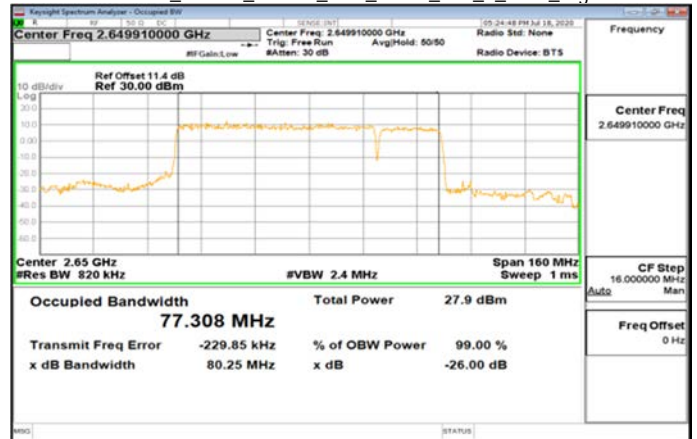
Band41_20MHz_60MHz_DFT_BPSK_162_0_Main_Mid



Band41_20MHz_40MHz_DFT_256QAM_100_0_Main_High



Band41_20MHz_60MHz_DFT_BPSK_162_0_Main_High

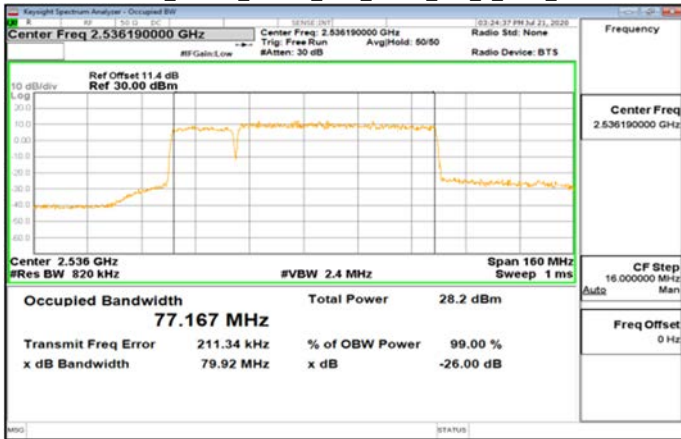


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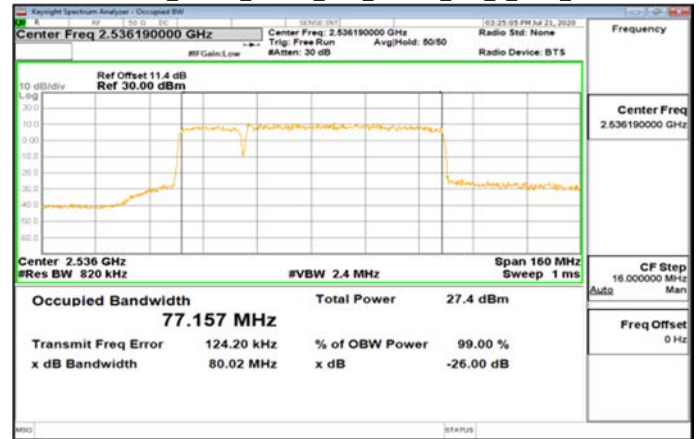
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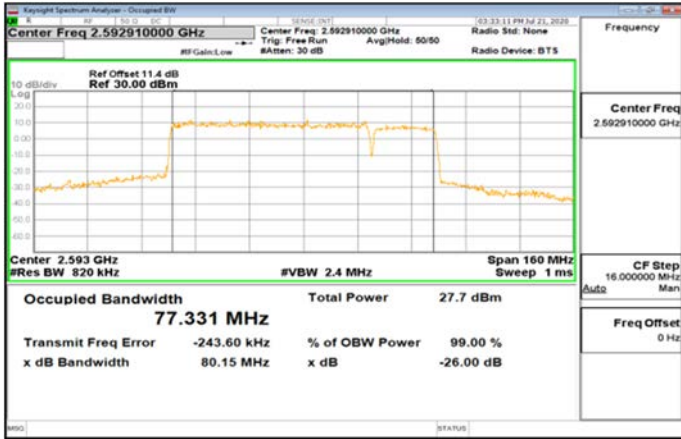
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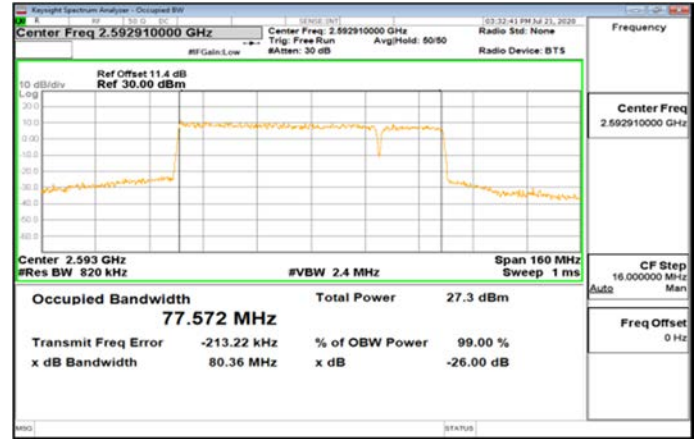
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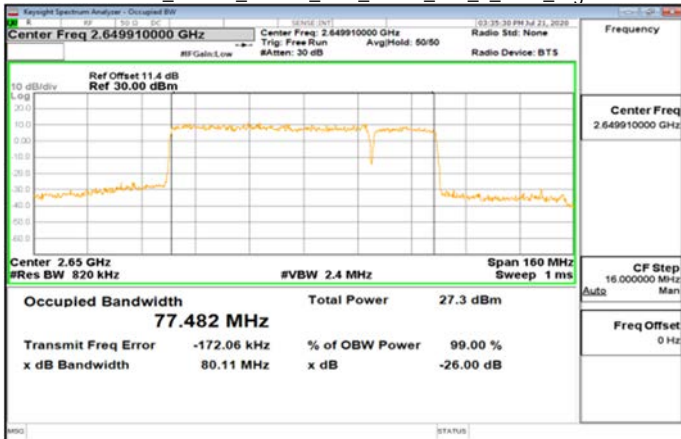
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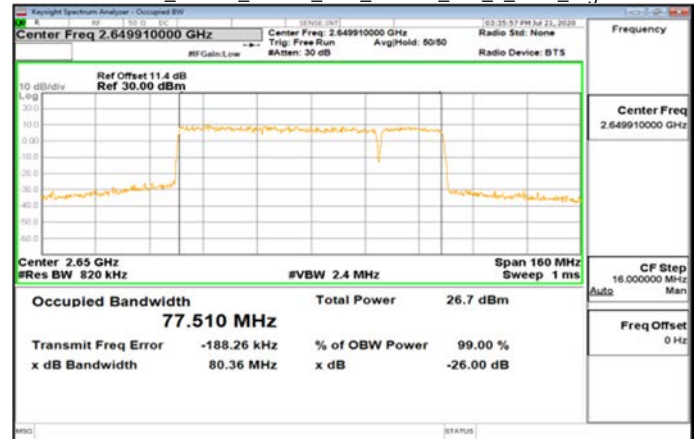
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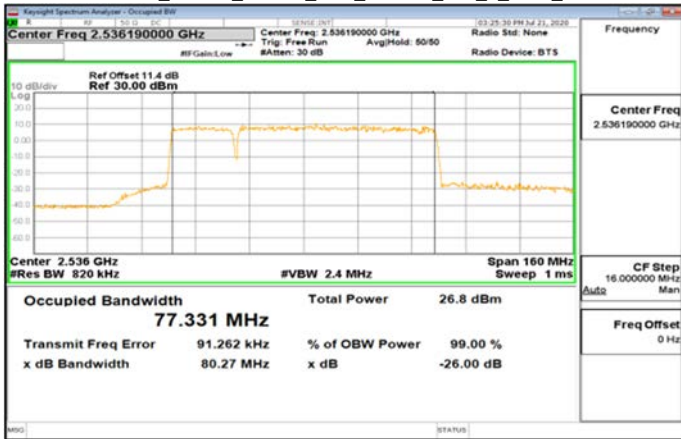


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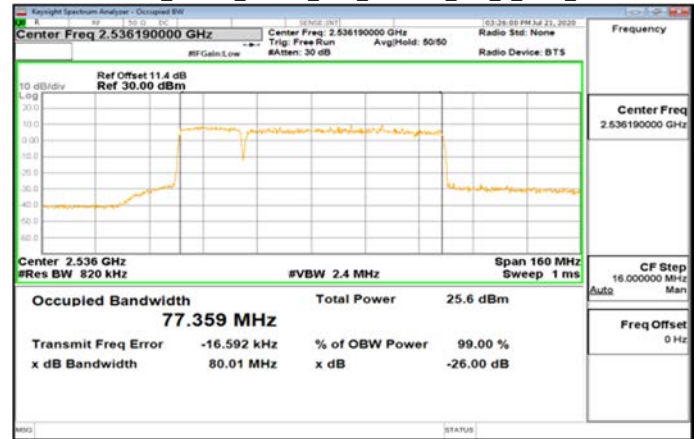
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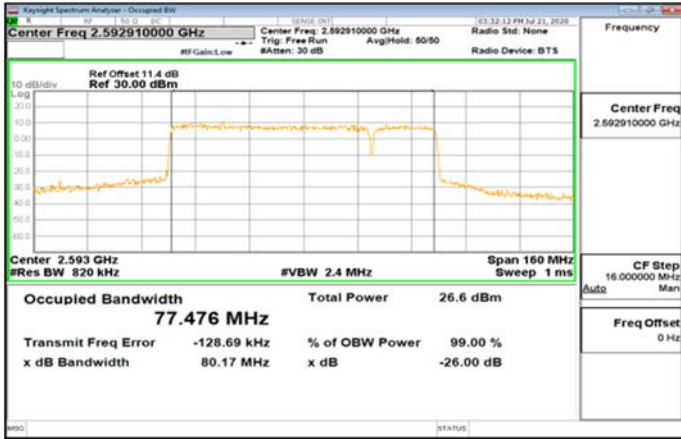
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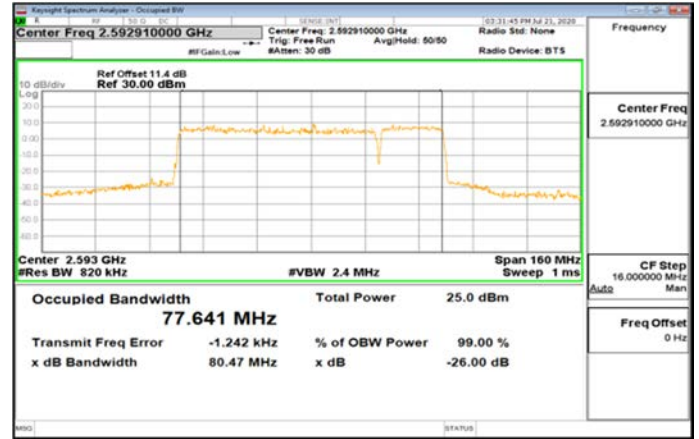
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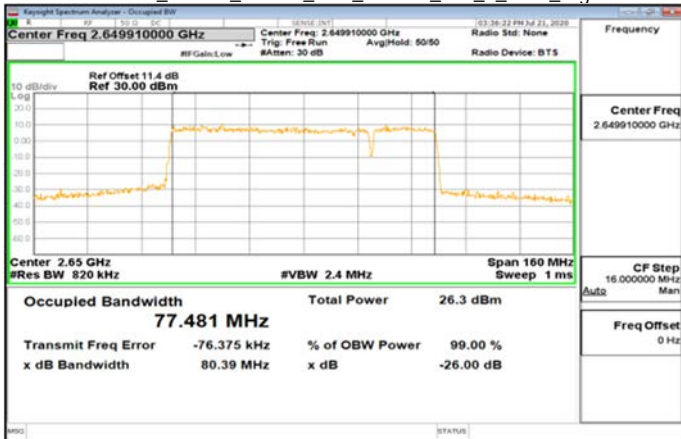
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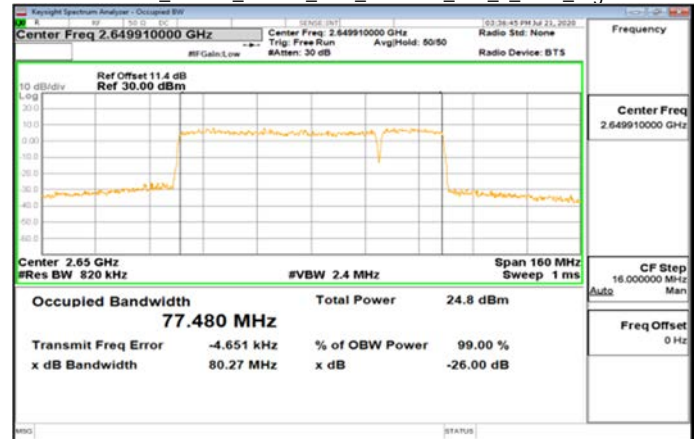
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Band41_20MHz_60MHz_DFT_64QAM_162_0_Main_High



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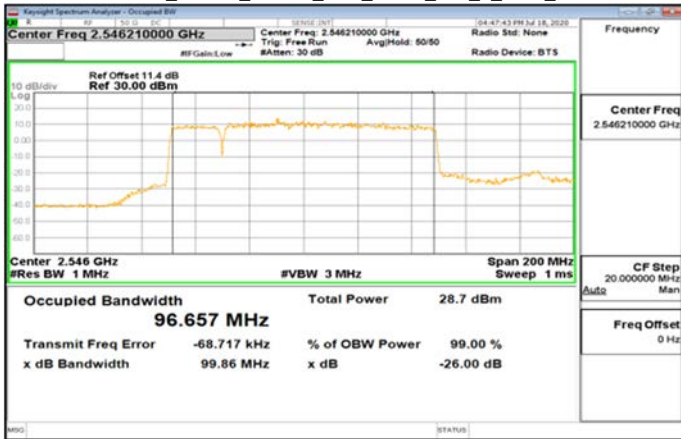


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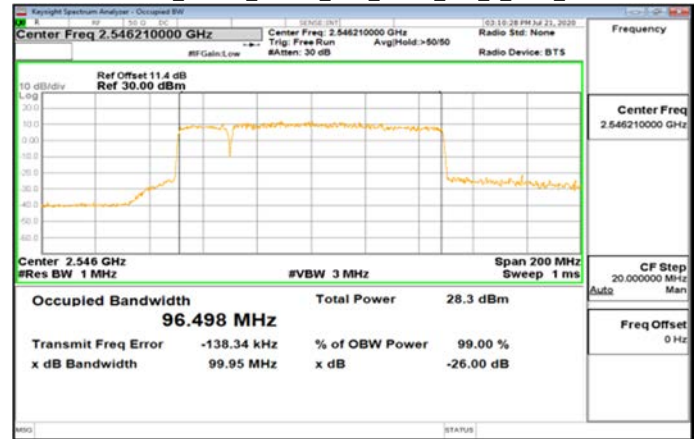
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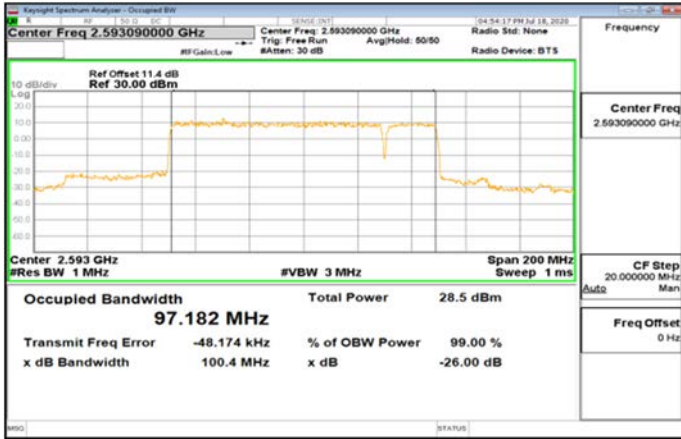
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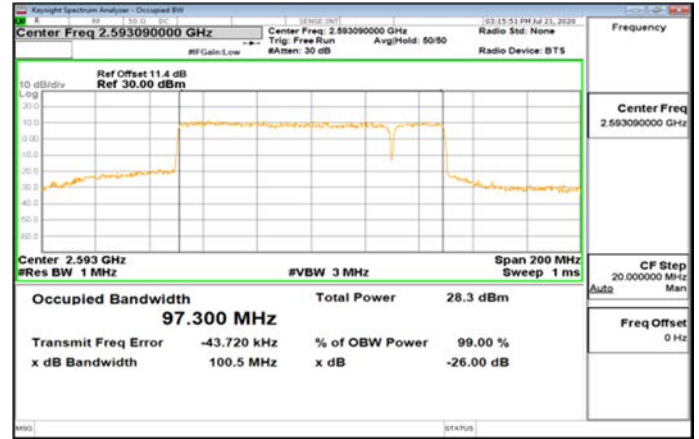
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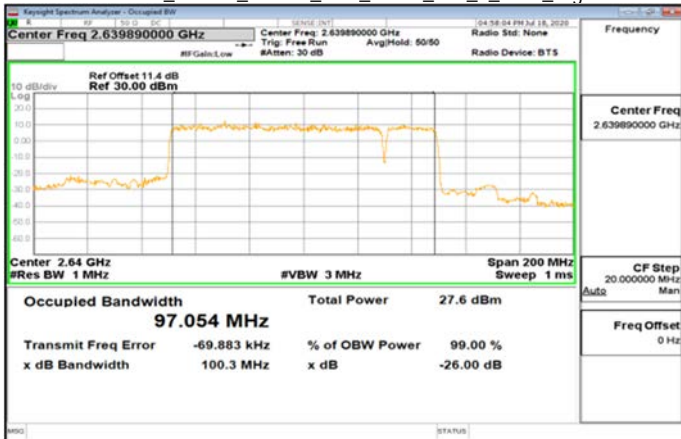
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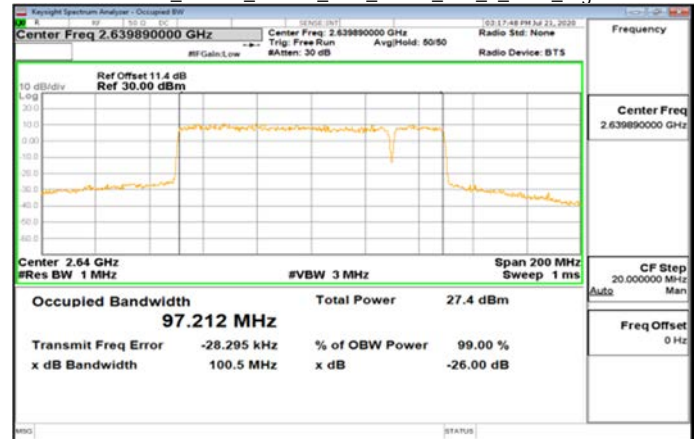
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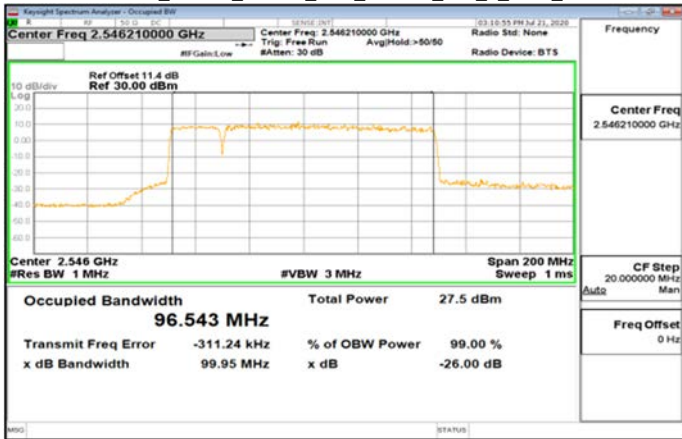


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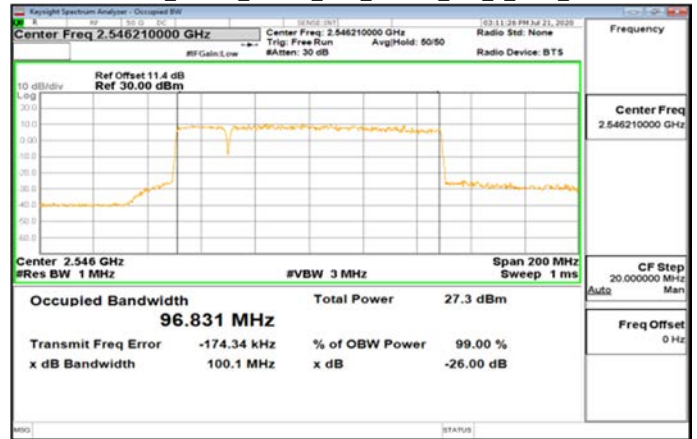
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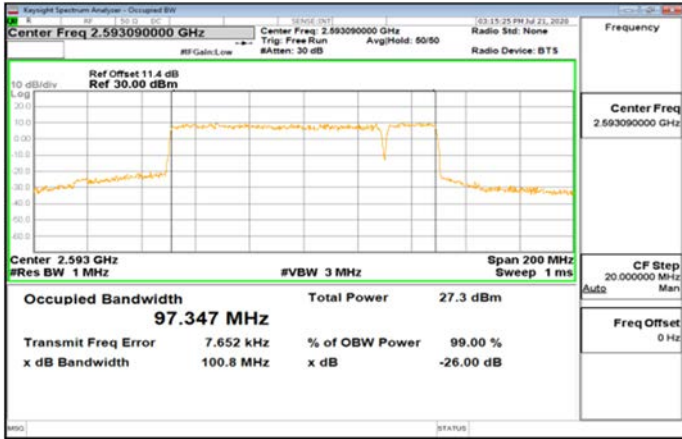
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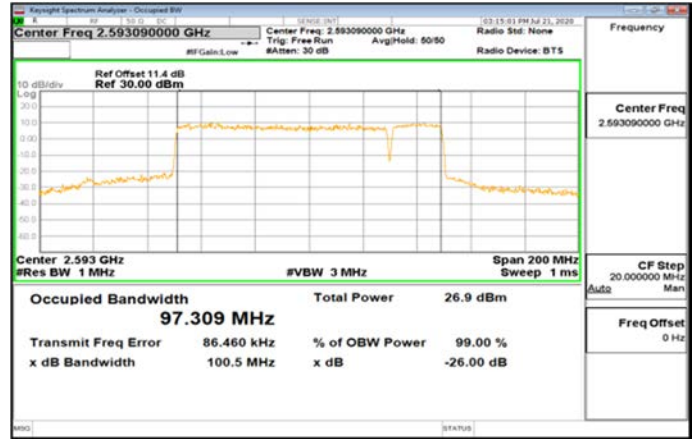
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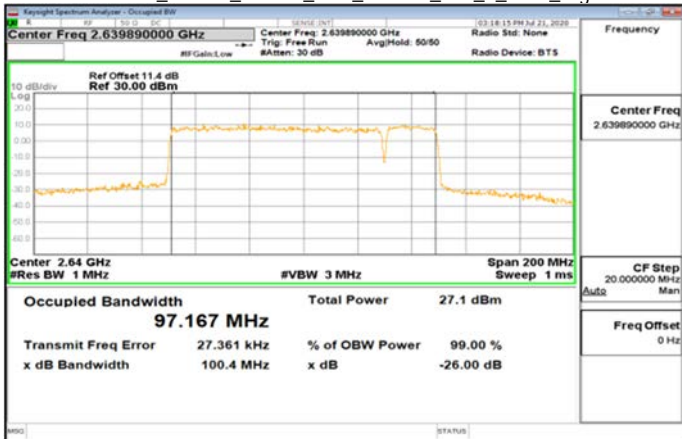
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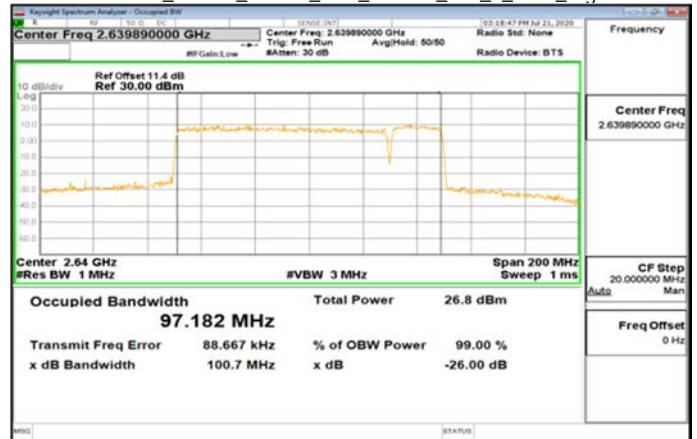
Band41_20MHz_80MHz_DFT_64QAM_216_0_Main_Mid



Band41_20MHz_80MHz_DFT_16QAM_216_0_Main_High



Band41_20MHz_80MHz_DFT_64QAM_216_0_Main_High

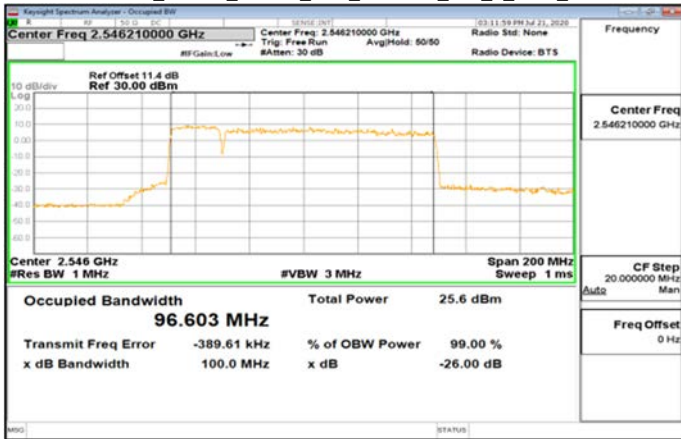


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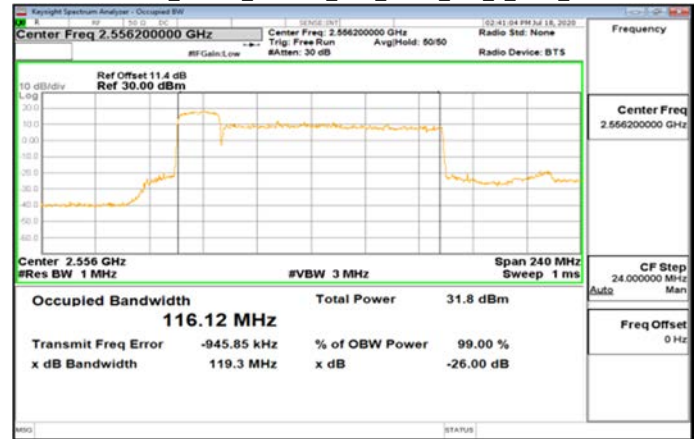
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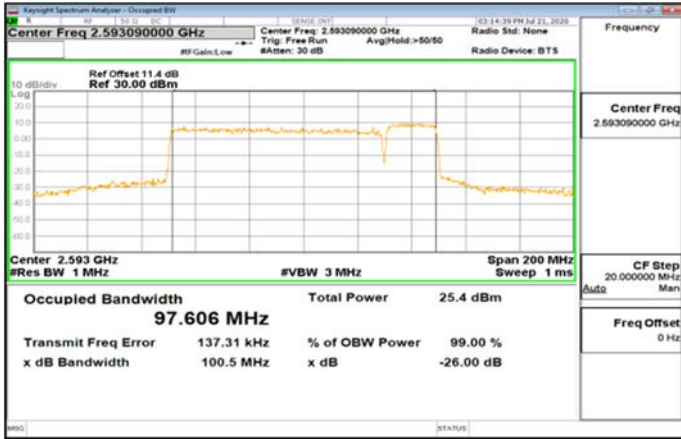
Band41_20MHz_80MHz_DFT_256QAM_216_0_Main_Low



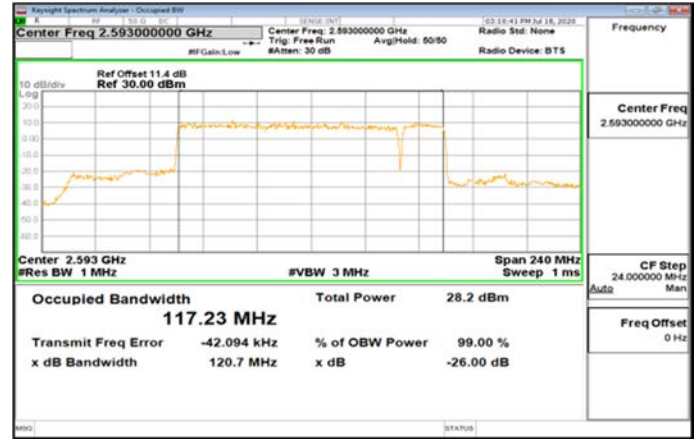
Band41_20MHz_100MHz_DFT_BPSK_270_0_Main_Low



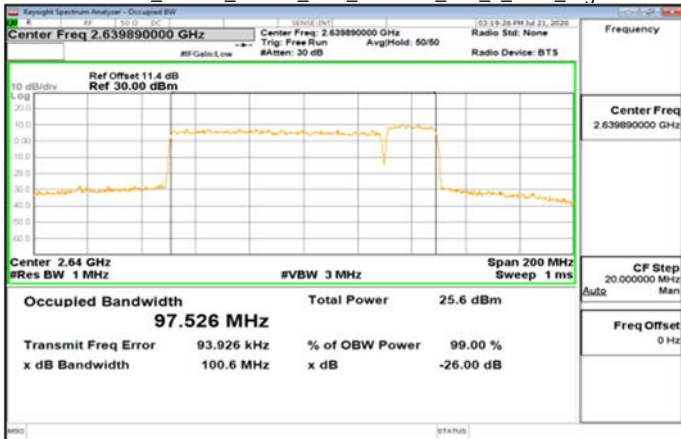
Band41_20MHz_80MHz_DFT_256QAM_216_0_Main_Mid



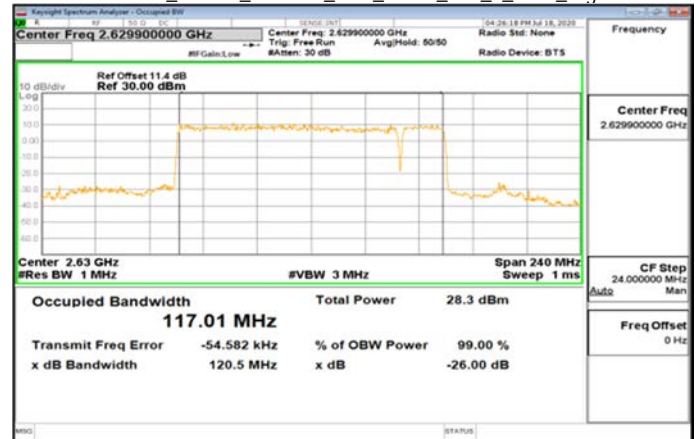
Band41_20MHz_100MHz_DFT_BPSK_270_0_Main_Mid



Band41_20MHz_80MHz_DFT_256QAM_216_0_Main_High



Band41_20MHz_100MHz_DFT_BPSK_270_0_Main_High

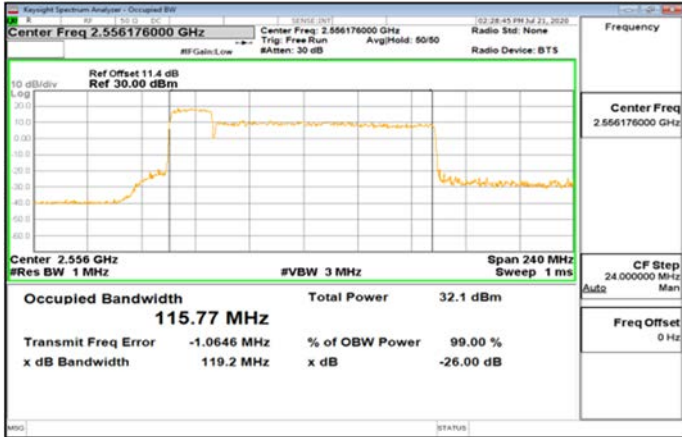


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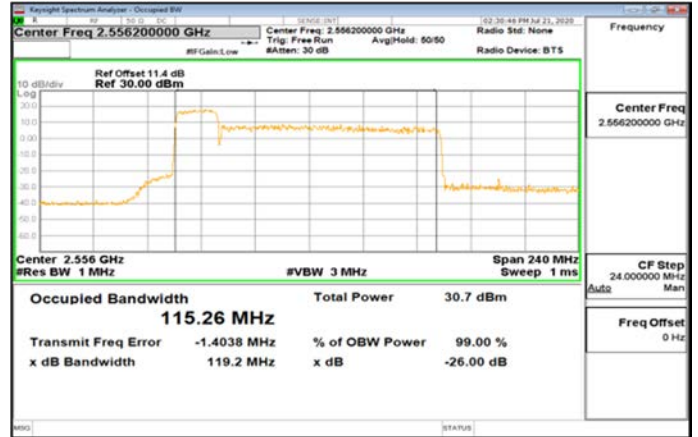
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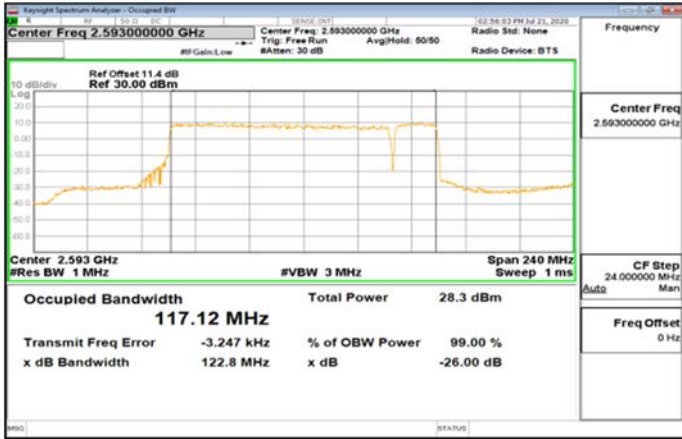
Band41_20MHz_100MHz_DFT_QPSK_270_0_Main_Low



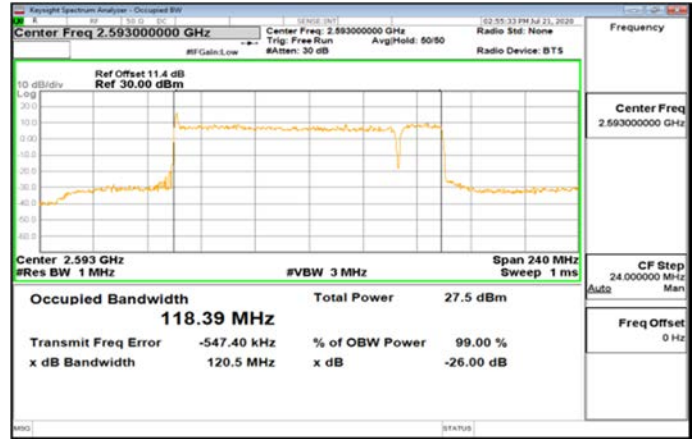
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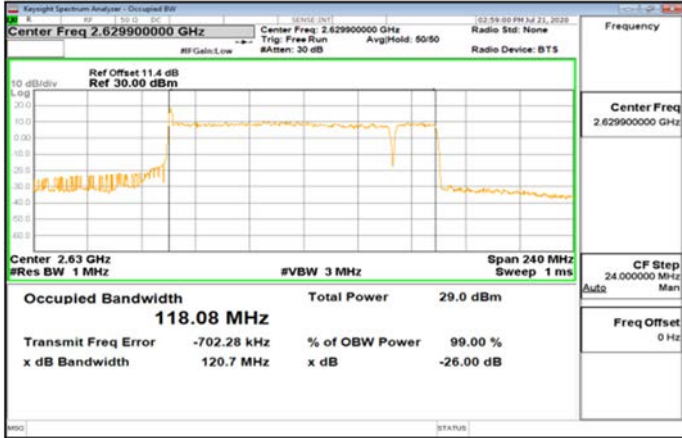
Band41_20MHz_100MHz_DFT_QPSK_270_0_Main_Mid



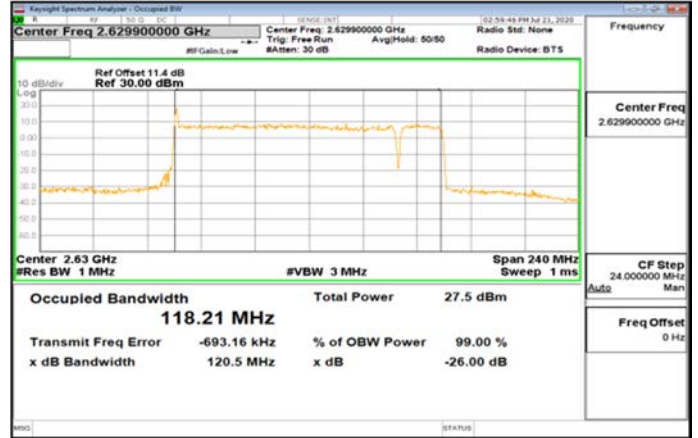
Band41_20MHz_100MHz_DFT_16QAM_270_0_Main_Mid



Band41_20MHz_100MHz_DFT_QPSK_270_0_Main_High



Band41_20MHz_100MHz_DFT_16QAM_270_0_Main_High

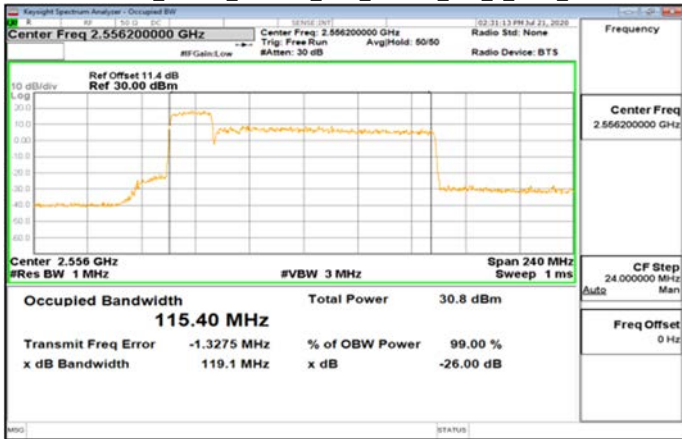


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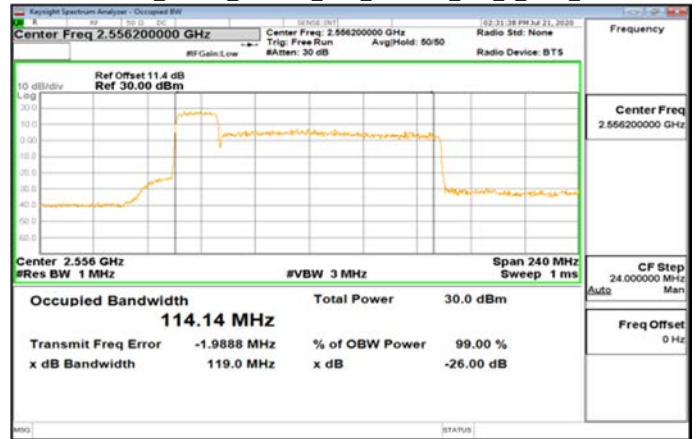
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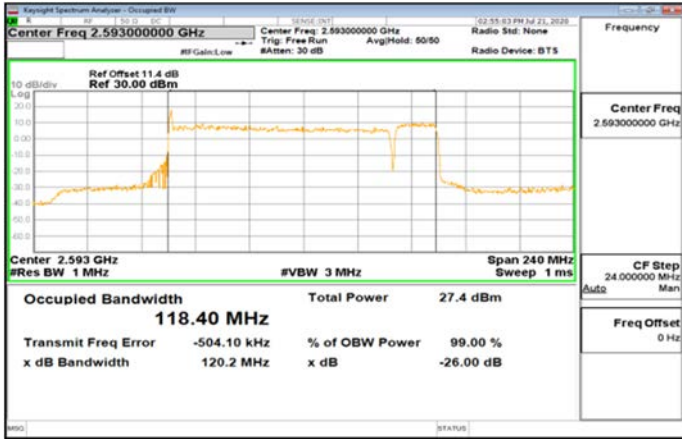
Band41_20MHz_100MHz_DFT_64QAM_270_0_Main_Low



Band41_20MHz_100MHz_DFT_256QAM_270_0_Main_Low



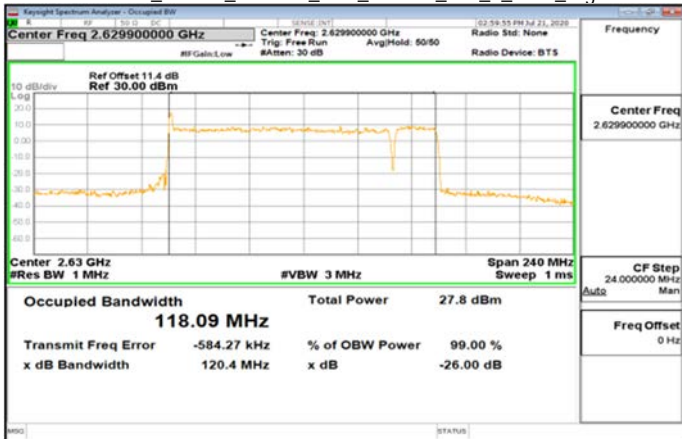
Band41_20MHz_100MHz_DFT_64QAM_270_0_Main_Mid



Band41_20MHz_100MHz_DFT_256QAM_270_0_Main_Mid



Band41_20MHz_100MHz_DFT_64QAM_270_0_Main_High



Band41_20MHz_100MHz_DFT_256QAM_270_0_Main_High

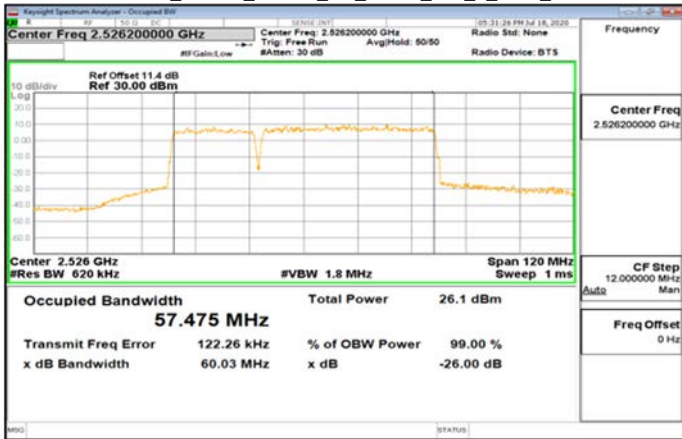


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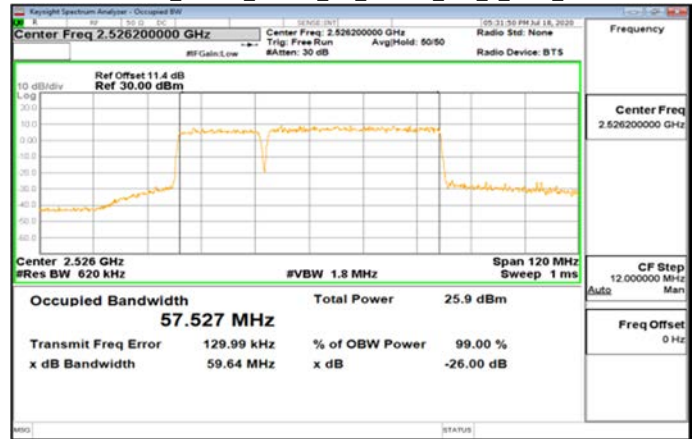
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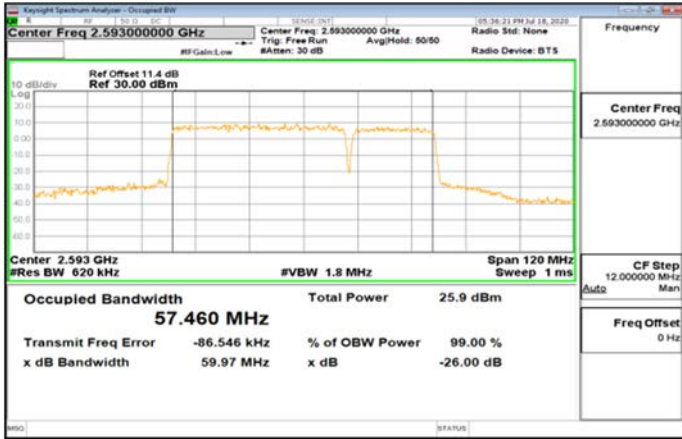
Band41_20MHz_40MHz_CP_OPSK_106_0_Main_Low



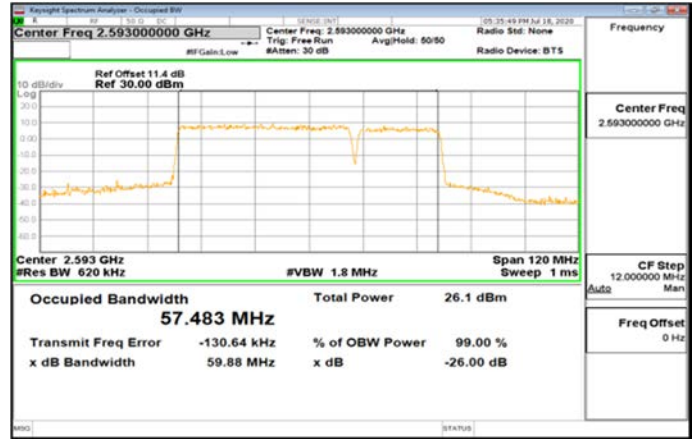
Band41_20MHz_40MHz_CP_16QAM_106_0_Main_Low



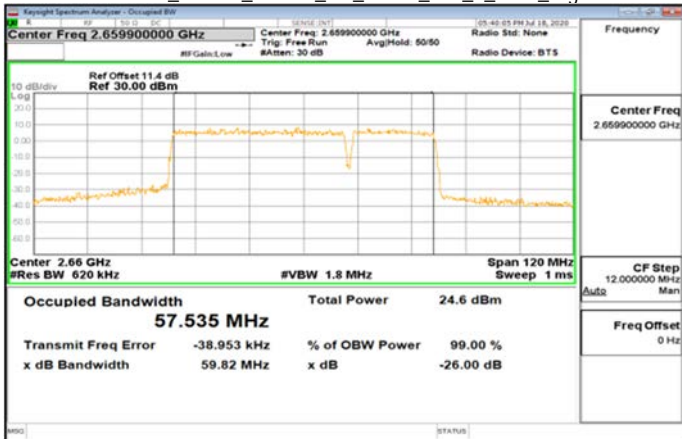
Band41_20MHz_40MHz_CP_OPSK_106_0_Main_Mid



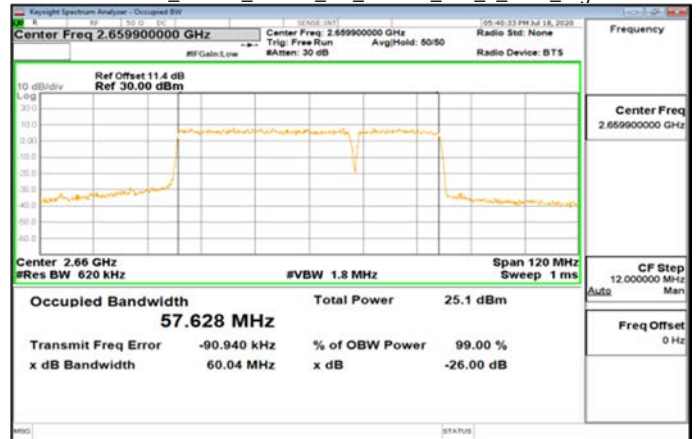
Band41_20MHz_40MHz_CP_16QAM_106_0_Main_Mid



Band41_20MHz_40MHz_CP_OPSK_106_0_Main_High



Band41_20MHz_40MHz_CP_16QAM_106_0_Main_High



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