

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



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

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS_I006D

Model Difference: N/A

Report Number: ER/2021/20010

FCC ID MSQI006D

IC: 3568A-I006D

FCC Rule Part: §15.247, Cat: DTS

IC RSS: RSS-247 issue 2 Feb 2017

Issue Date: May 7, 2021

Date of Test: January 26, 2021 - April 6, 2021

Date of EUT Received: January 26, 2021

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By:**Blue Yang / Asst. Manager**

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/20006	Rev.00	Original.	May 7, 2021	Viola Su

Note:

1、Disclaimer

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

2、Test data is referenced from original report

Measurement results in the original test report ER/2021/10055 are partially leveraged in this test report with spot check to demonstrate compliance.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	ASUS Phone (Mobile Phone)	
Brand Name:	ASUS	
Model No.:	ASUS_I006D	
Model Difference:	N/A	
Hardware Version:	V4	
Software Version:	Android 11	
EUT Series No.:	N/A	
Power Supply:	3.87Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC/DC Adapter	
	Battery	Model No: C11P2003 Brand: ASUS
	Adapter	Model No: A299-200150U-US Brand: ASUS

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WLAN 2.4GHz

Wi-Fi	Frequency Range	Channels	Rated Power in dBm (Peak)	Modulation Technology
802.11b	2412~2462	11	23.57	DSSS
802.11g	2412~2462	11	29.66	OFDM
802.11n20	2412~2462	11	29.30	OFDM
802.11n40	2422-2452	7	28.73	OFDM
802.11ax20	2412~2462	11	29.96	OFDMA
802.11ax40	2422-2452	7	29.77	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS		
		64QAM, 16QAM, QPSK, BPSK for OFDM		
		1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA		
Data Rate:		802.11 b: 1/2/5.5/11 Mbps		
		802.11 g: 6/9/12/18/24/36/48/54 Mbps		
		802.11 n_20MHz:6.5 - 144.4Mbps		
		802.11 n_40MHz:13.5 - 300Mbps		
		802.11 ax_20MHz:7.3 - 286.8Mbps		
		802.11 ax_40MHz:14.6 - 573.6Mbps		

1.2 Antenna Designation

Antenna Type	Brand	Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ASUS	ZS590KS	2.4GHz	-0.13
PIFA	ASUS	ZS590KS	2.4GHz	-3.13

Note: Investigation has been done to determine the worst case scenario for the above antennas demonstrated with measurements in this report.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5, Amendment 1, March 2019

ANSI C63.10:2013

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction A	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

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1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference 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 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.

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2.4 Measurement Results Explanation Example

2.4.1 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.

2.4.2 For all conducted test items:

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

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2.5 Configuration of Tested System

Conducted Setup & Radiated Setup



Conduction Setup

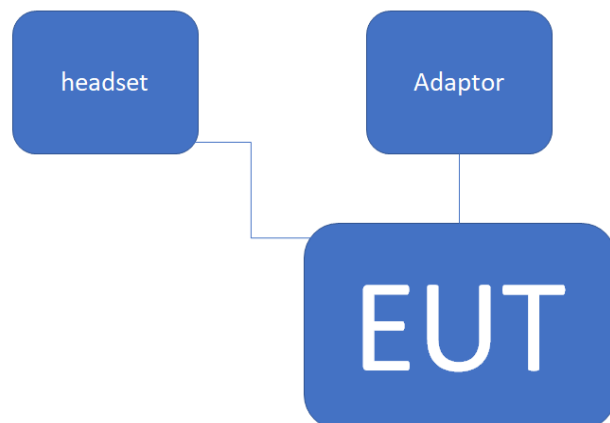


Table 2-1 Equipment Used in Tested System

Item	Equipment	MRF/BRAND	Model/Type No.	Series No.	Version
1.	QRCT4	N/A	N/A	N/A	4.0.00142.0
2.	Notebook	Lenovo	L480	PF-1S9NT5	N/A
3.	Adapter	ASUS	A299-200150U-US	NA	N/A
4.	Headset	1MORE	EARPHONE BLK YODA	NA	N/A

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Power Spectral Density	Compliant
§15.203 §15.247(b)	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n/ax 20M.

9 channels are provided for 802.11n/ax 40M

CHANNEL	FREQUENCY (MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

CHANNEL	FREQUENCY (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 b	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 g	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input checked="" type="checkbox"/> 802.11 n	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ax	<input checked="" type="checkbox"/> Ch0	<input checked="" type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input checked="" type="checkbox"/> MIMO

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.3 Radiated Emission Test:

RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11g	1 to 11	1,6,11	OFDM	6	2TX
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO

RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,11	OFDM	6	2TX
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO
802.11ax (HE20)	1 to 11	1,6,11	OFDMA	MCS0	MIMO
802.11ax (HE40)	3 to 9	3,6,9	OFDMA	MCS0	MIMO

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case E2 position was reported.

4.4 Antenna Port Conducted Measurement:

CONDUCTED TEST					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11b	1 to 11	1,6,11	DSSS	1	2TX
802.11g	1 to 11	1,6,11	OFDM	6	2TX
802.11n (HT20)	1 to 11	1,6,11	OFDM	MCS8	MIMO
802.11n (HT40)	3 to 9	3,6,9	OFDM	MCS8	MIMO
802.11ax (HE20)	1 to 11	1,6,11	OFDMA	MCS0	MIMO
802.11ax (HE40)	3 to 9	3,6,9	OFDMA	MCS0	MIMO

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Peak Output Power	+/- 1 dB
6dB Bandwidth	+/- 1.54 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 1.69 dB
Peak Power Density	+/- 1.54 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 1%

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

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits dB(uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Radiated Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK	NSLK 8127	8127-465	04/09/2020	04/08/2021
Coaxial Cables	N/A	Coaxial Cable	161207	12/07/2020	12/06/2021
Test Software	audix	e3	Ver. 6.11-20180413	01/01/2021	12/31/2021
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021

6.3 EUT Setup

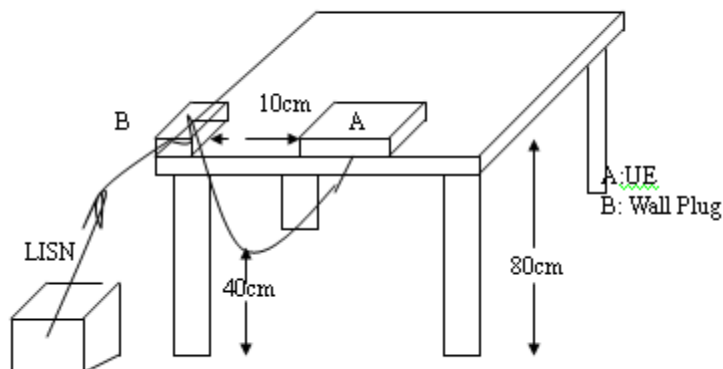
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :ER-2021-20006

Test Site :Conduction 6F

Test Mode :WLAN 2.4G

Test Date :2021-02-20

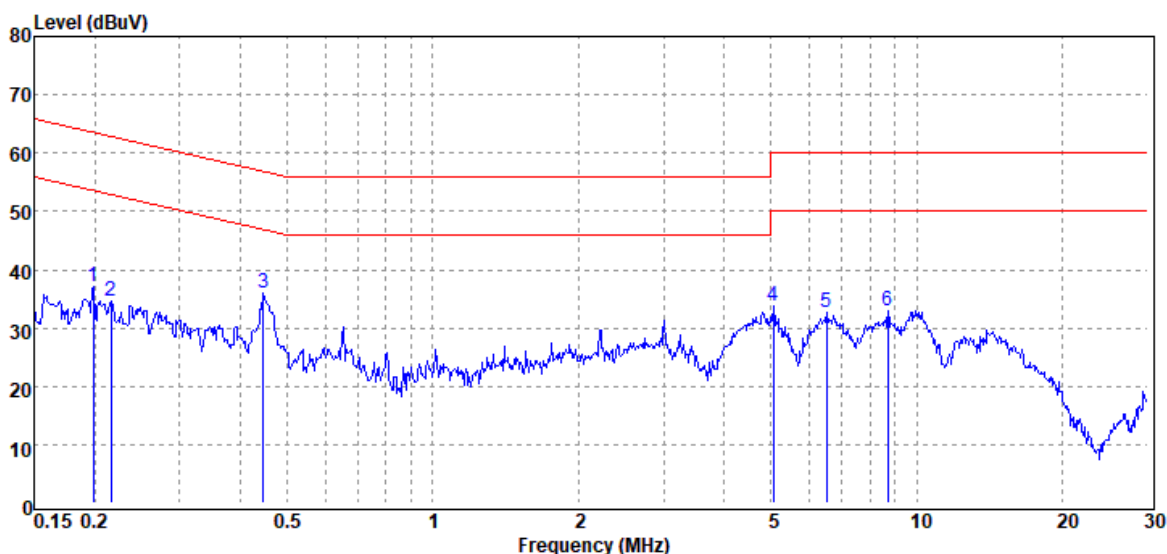
Power :AC 120V/60Hz

Temp./Humi. :22.5/47

Probe :L

Engineer :Neo Tsai

Note :



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBuV	dB	dBuV	dBuV	dB
0.20	Peak	36.94	0.04	36.98	63.67	-26.69
0.22	Peak	34.69	0.04	34.73	62.96	-28.23
0.45	Peak	35.82	0.13	35.95	56.93	-20.98
5.06	Peak	33.34	0.55	33.89	60.00	-26.11
6.52	Peak	32.10	0.65	32.75	60.00	-27.25
8.73	Peak	32.23	0.77	33.00	60.00	-27.00

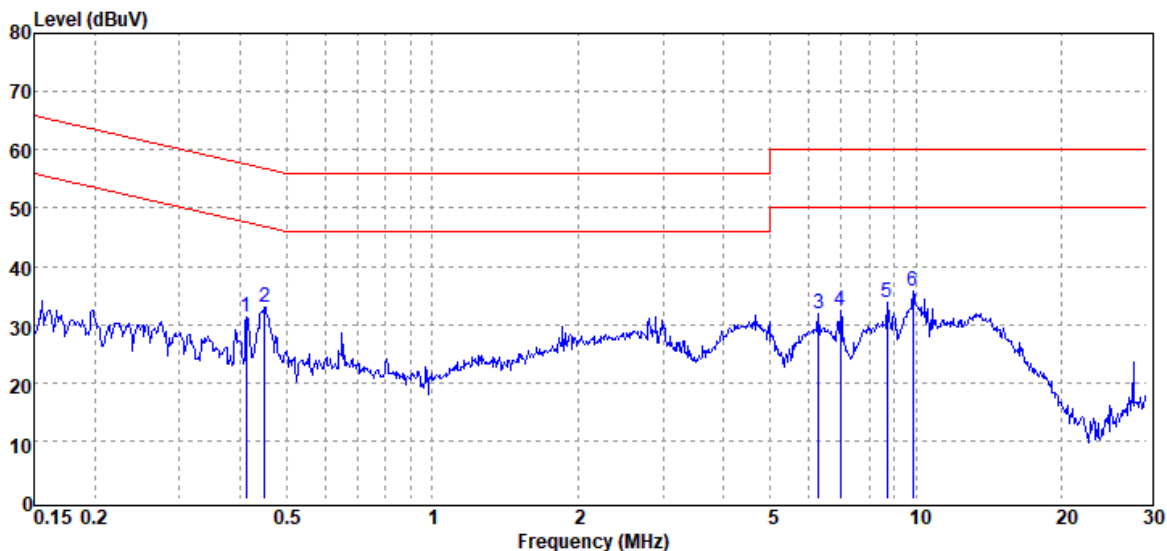
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Report Number :ER-2021-20006
 Test Mode :WLAN 2.4G
 Power :AC 120V/60Hz
 Probe :N
 Note: :

Test Site :Conduction 6F
 Test Date :2021-02-20
 Temp./Humi. :22.5/47
 Engineer :Neo Tsai



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.41	Peak	31.08	0.17	31.25	57.59	-26.34
0.45	Peak	32.80	0.20	33.00	56.89	-23.89
6.29	Peak	31.41	0.55	31.96	60.00	-28.04
6.99	Peak	31.84	0.58	32.42	60.00	-27.58
8.73	Peak	33.09	0.66	33.75	60.00	-26.25
9.86	Peak	35.09	0.70	35.79	60.00	-24.21

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7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

7.2 Duty Cycle:

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	98.22	0.08	1.51	0.01
802.11g	99.20	0.03	0.51	0.01
802.11n_20	99.70	0.01	0.19	0.01
802.11n_40	99.71	0.01	0.19	0.01
802.11ax_20	100.00	0.00	0.00	0.01
802.11ax_40	99.61	0.02	0.24	0.01

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7.3 Duty Cycle test plots

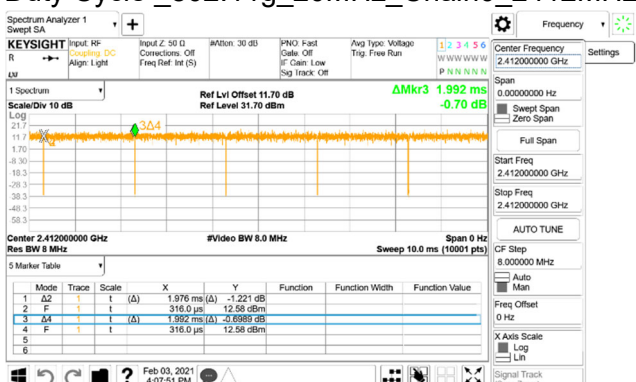
Duty Cycle _802.11b_20MHz_Chain0_2412MHz



Duty Cycle _802.11ax_20MHz_Chain0_2412MHz



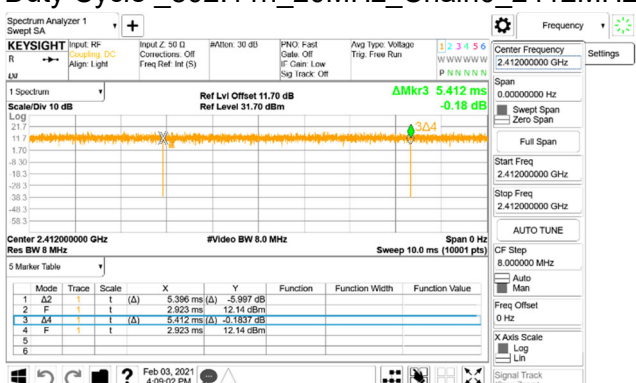
Duty Cycle _802.11g_20MHz_Chain0_2412MHz



Duty Cycle _802.11n_40MHz_Chain0_2422MHz



Duty Cycle _802.11n_20MHz_Chain0_2412MHz



Duty Cycle _802.11ax_40MHz_Chain0_2422MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Note:

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k}$ = / 20 10Gk if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

The antenna gain is not grater than 6 dBi. Therefore, reduction of power is not required.

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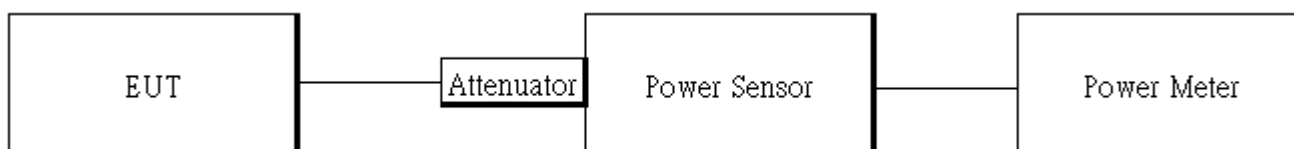
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8.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1242004	11/06/2020	11/05/2021
Power Sensor	Anritsu	MA2411B	1207365	11/06/2020	11/05/2021
Power Sensor	Anritsu	MA2411B	1207368	11/06/2020	11/05/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	8	12/16/2020	12/15/2021

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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8.6 Measurement Result

802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18	21.41	30.00	PASS
6	2437	1	18	21.30	30.00	PASS
11	2462	1	18	21.25	30.00	PASS
802.11b Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18	18.77	30.00	PASS
6	2437	1	18	18.79	30.00	PASS
11	2462	1	18	18.70	30.00	PASS

802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18	20.39	30.00	PASS
6	2437	1	18	20.70	30.00	PASS
11	2462	1	18	20.73	30.00	PASS
802.11b Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18	18.23	30.00	PASS
6	2437	1	18	18.11	30.00	PASS
11	2462	1	18	18.16	30.00	PASS

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802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	18	20.06	20.98	23.55	30.00	PASS
6	2437	1	18	19.83	20.88	23.40	30.00	PASS
11	2462	1	18	20.07	21.00	23.57	30.00	PASS
802.11b_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	1	18	17.45	18.27	20.97	30.00	PASS
6	2437	1	18	17.26	18.27	20.88	30.00	PASS
11	2462	1	18	17.43	18.19	20.91	30.00	PASS

802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.5	25.81	30.00	PASS
6	2437	6	17.5	26.55	30.00	PASS
11	2462	6	16.5	25.59	30.00	PASS
802.11g Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.5	17.28	30.00	PASS
6	2437	6	17.5	18.24	30.00	PASS
11	2462	6	16.5	17.14	30.00	PASS

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802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.5	25.95	30.00	PASS
6	2437	6	17.5	26.66	30.00	PASS
11	2462	6	16.5	25.69	30.00	PASS
802.11g Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.5	16.69	30.00	PASS
6	2437	6	17.5	17.59	30.00	PASS
11	2462	6	16.5	16.76	30.00	PASS

802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	16.5	26.96	26.31	29.66	30.00	PASS
6	2437	6	17.5	25.92	26.01	28.98	30.00	PASS
11	2462	6	16.5	25.64	26.12	28.90	30.00	PASS
802.11g_2TX								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	6	16.5	16.59	17.37	20.04	30.00	PASS
6	2437	6	17.5	17.51	18.34	20.99	30.00	PASS
11	2462	6	16.5	16.73	17.16	20.00	30.00	PASS

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802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	25.20	30.00	PASS
6	2437	MCS0	17.5	26.52	30.00	PASS
11	2462	MCS0	16.5	25.60	30.00	PASS
802.11n_HT20M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	16.68	30.00	PASS
6	2437	MCS0	17.5	18.15	30.00	PASS
11	2462	MCS0	16.5	16.94	30.00	PASS
802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	25.02	30.00	PASS
6	2437	MCS0	17.5	26.72	30.00	PASS
11	2462	MCS0	16.5	25.46	30.00	PASS
802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16	16.00	30.00	PASS
6	2437	MCS0	17.5	17.46	30.00	PASS
11	2462	MCS0	16.5	16.62	30.00	PASS

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802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	16	25.18	25.13	28.17	30.00	PASS
6	2437	MCS8	17.5	25.99	25.97	28.99	30.00	PASS
11	2462	MCS8	16.5	25.93	26.62	29.30	30.00	PASS
802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
1	2412	MCS8	16	15.91	16.78	19.39	30.00	PASS
6	2437	MCS8	17.5	17.44	18.16	20.84	30.00	PASS
11	2462	MCS8	16.5	16.57	17.03	19.83	30.00	PASS
802.11ax_HE20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT	
1	2412	MCS0	full	15	24.54	30.00	PASS	
			26/0	18.5	27.15	30.00	PASS	
			52/37	18	27.84	30.00	PASS	
			106/53	18	27.22	30.00	PASS	
6	2437	MCS0	full	17.5	26.85	30.00	PASS	
11	2462	MCS0	full	15.5	25.71	30.00	PASS	
			26/8	18	27.94	30.00	PASS	
			52/40	18	27.01	30.00	PASS	
			106/54	18	28.13	30.00	PASS	
802.11ax_HE20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT	
1	2412	MCS0	full	15	15.59	30.00	PASS	
			26/0	18.5	18.35	30.00	PASS	
			52/37	18	17.94	30.00	PASS	
			106/53	18	18.04	30.00	PASS	
6	2437	MCS0	full	17.5	18.11	30.00	PASS	
11	2462	MCS0	full	15.5	16.10	30.00	PASS	
			26/8	18	18.26	30.00	PASS	
			52/40	18	18.25	30.00	PASS	
			106/54	18	18.98	30.00	PASS	

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802.11ax_HE20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	24.63	30.00	PASS
			26/0	18.5	27.41	30.00	PASS
			52/37	18	27.65	30.00	PASS
			106/53	18	27.47	30.00	PASS
6	2437	MCS0	full	17.5	27.25	30.00	PASS
11	2462	MCS0	full	15.5	25.52	30.00	PASS
			26/8	18	27.36	30.00	PASS
			52/40	18	27.81	30.00	PASS
			106/54	18	28.49	30.00	PASS
802.11ax_HE20M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	15	14.87	30.00	PASS
			26/0	18.5	17.93	30.00	PASS
			52/37	18	17.47	30.00	PASS
			106/53	18	17.68	30.00	PASS
6	2437	MCS0	full	17.5	17.60	30.00	PASS
11	2462	MCS0	full	15.5	15.51	30.00	PASS
			26/8	18	17.83	30.00	PASS
			52/40	18	17.71	30.00	PASS
			106/54	18	18.43	30.00	PASS

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802.11ax_HE20M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	15	24.26	25.50	27.93	30.00	PASS
			26/0	18.5	27.07	18.20	27.60	30.00	PASS
			52/37	18	26.76	27.13	29.96	30.00	PASS
			106/53	18	26.81	27.06	29.95	30.00	PASS
6	2437	MCS0	full	17.5	26.26	26.21	29.25	30.00	PASS
11	2462	MCS0	full	15.5	25.28	25.42	28.36	30.00	PASS
			26/8	18	26.94	26.92	29.94	30.00	PASS
			52/40	18	26.81	26.76	29.80	30.00	PASS
			106/54	18	26.95	26.86	29.92	30.00	PASS
802.11ax_HE20M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
1	2412	MCS0	full	15	14.84	15.73	18.32	30.00	PASS
			26/0	18.5	17.75	18.18	20.98	30.00	PASS
			52/37	18	17.41	17.84	20.64	30.00	PASS
			106/53	18	17.50	18.19	20.87	30.00	PASS
6	2437	MCS0	full	17.5	17.43	18.25	20.87	30.00	PASS
11	2462	MCS0	full	15.5	15.49	16.07	18.80	30.00	PASS
			26/8	18	17.44	18.26	20.88	30.00	PASS
			52/40	18	17.47	18.25	20.89	30.00	PASS
			106/54	18	17.70	18.22	20.98	30.00	PASS

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802.11n_HT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	24.02	30.00	PASS
6	2437	MCS0	17.5	26.10	30.00	PASS
9	2452	MCS0	14.5	23.25	30.00	PASS
802.11n_HT40M Ch0						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	16.43	30.00	PASS
6	2437	MCS0	17.5	18.25	30.00	PASS
9	2452	MCS0	14.5	15.43	30.00	PASS

802.11n_HT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	24.49	30.00	PASS
6	2437	MCS0	17.5	25.92	30.00	PASS
9	2452	MCS0	15	23.85	30.00	PASS
802.11n_HT40M Ch1						
CH	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	15.94	30.00	PASS
6	2437	MCS0	17.5	17.44	30.00	PASS
9	2452	MCS0	15	15.02	30.00	PASS

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802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	16	24.19	24.52	27.37	30.00	PASS
6	2437	MCS8	17.5	25.63	25.81	28.73	30.00	PASS
9	2452	MCS8	15	23.96	23.89	26.94	30.00	PASS
802.11n_HT40M MIMO								
CH	Freq. (MHz)	Data Rate	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
				CH 0	CH 1			
3	2422	MCS8	16	15.89	16.34	19.14	30.00	PASS
6	2437	MCS8	17.5	17.33	18.26	20.84	30.00	PASS
9	2452	MCS8	15	14.89	15.49	18.22	30.00	PASS

802.11ax_HE40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	24.02	30.00	PASS
			242/61	18	27.04	30.00	PASS
6	2437	MCS0	full	17.5	26.18	30.00	PASS
9	2452	MCS0	full	14.5	22.86	30.00	PASS
			242/62	17.5	26.51	30.00	PASS
802.11ax_HE40M Ch0							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	15.85	30.00	PASS
			242/61	18	18.32	30.00	PASS
6	2437	MCS0	full	17.5	18.08	30.00	PASS
9	2452	MCS0	full	14.5	14.80	30.00	PASS
			242/62	17.5	18.06	30.00	PASS

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802.11ax_HE40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	24.21	30.00	PASS
			242/61	18	27.33	30.00	PASS
6	2437	MCS0	full	17.5	26.55	30.00	PASS
9	2452	MCS0	full	14.5	23.60	30.00	PASS
			242/62	17.5	27.31	30.00	PASS
802.11ax_HE40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	15.37	30.00	PASS
			242/61	18	18.05	30.00	PASS
6	2437	MCS0	full	17.5	17.46	30.00	PASS
9	2452	MCS0	full	14.5	14.41	30.00	PASS
			242/62	17.5	17.65	30.00	PASS

802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	15.5	23.83	24.21	27.03	30.00	PASS
			242/6	18	26.63	26.88	29.77	30.00	PASS
6	2437	MCS0	full	17.5	26.15	26.23	29.20	30.00	PASS
9	2452	MCS0	full	14.5	22.82	23.17	26.01	30.00	PASS
			242/6	17.5	26.38	26.66	29.53	30.00	PASS
802.11ax_HE40M MIMO									
CH	Freq. (MHz)	Data Rate	RU Config	Power set	Avg. Output Power (dBm)		Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
					CH 0	CH 1			
3	2422	MCS0	full	15.5	15.23	15.92	18.62	30.00	PASS
			242/6	18	17.65	18.26	20.99	30.00	PASS
6	2437	MCS0	full	17.5	17.28	18.14	20.76	30.00	PASS
9	2452	MCS0	full	14.5	14.35	14.78	17.60	30.00	PASS
			242/6	17.5	17.48	18.25	20.91	30.00	PASS

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*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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EIRP

802.11b Ch0							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	18.77	-0.75	18.02	36	PASS
6	2437	1	18.79	-0.75	18.04	36	PASS
11	2462	1	18.70	-0.75	17.95	36	PASS

802.11b Ch1							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	1	18.23	-3.13	15.10	36	PASS
6	2437	1	18.11	-3.13	14.98	36	PASS
11	2462	1	18.16	-3.13	15.03	36	PASS

802.11b_2TX									
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	1	17.45	18.27	20.97	1.23	22.20	36	PASS
6	2437	1	17.26	18.27	20.88	1.23	22.11	36	PASS
11	2462	1	17.43	18.19	20.91	1.23	22.14	36	PASS

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802.11g Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	17.28	-0.75	16.53	36	PASS
6	2437	6	18.24	-0.75	17.49	36	PASS
11	2462	6	17.14	-0.75	16.39	36	PASS

802.11g Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	6	16.69	-3.13	13.56	36	PASS
6	2437	6	17.59	-3.13	14.46	36	PASS
11	2462	6	16.76	-3.13	13.63	36	PASS

802.11g_2TX

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	6	16.59	17.37	20.04	1.23	21.27	36	PASS
6	2437	6	17.51	18.34	20.99	1.23	22.22	36	PASS
11	2462	6	16.73	17.16	20.00	1.23	21.23	36	PASS

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802.11n_HT20M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.68	-0.75	15.93	36	PASS
6	2437	MCS0	18.15	-0.75	17.40	36	PASS
11	2462	MCS0	16.94	-0.75	16.19	36	PASS

802.11n_HT20M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.00	-3.13	12.87	36	PASS
6	2437	MCS0	17.46	-3.13	14.33	36	PASS
11	2462	MCS0	16.62	-3.13	13.49	36	PASS

802.11n_HT20M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
1	2412	MCS8	25.18	25.13	19.39	1.23	20.62	36	PASS
6	2437	MCS8	25.99	25.97	20.84	1.23	22.07	36	PASS
11	2462	MCS8	25.93	26.62	19.83	1.23	21.06	36	PASS

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802.11n_HT40M Ch0

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16.43	-0.75	15.68	36	PASS
6	2437	MCS0	18.25	-0.75	17.50	36	PASS
9	2452	MCS0	15.43	-0.75	14.68	36	PASS

802.11n_HT40M Ch1

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	15.94	-3.13	12.81	36	PASS
6	2437	MCS0	17.44	-3.13	14.31	36	PASS
9	2452	MCS0	15.02	-3.13	11.89	36	PASS

802.11n_HT40M MIMO

CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	RESULT
			CH 0	CH 1					
3	2422	MCS8	15.89	16.34	19.14	1.23	20.37	36	PASS
6	2437	MCS8	17.33	18.26	20.84	1.23	22.07	36	PASS
9	2452	MCS8	14.89	15.49	18.22	1.23	19.45	36	PASS

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802.11ax_HE20M Ch0								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	full	15.59	-0.75	14.84	36	PASS
			26/0	18.35	-0.75	17.60	36	PASS
			52/37	17.94	-0.75	17.19	36	PASS
			106/53	18.04	-0.75	17.29	36	PASS
6	2437	MCS0	full	18.11	-0.75	17.36	36	PASS
11	2462	MCS0	full	16.10	-0.75	15.35	36	PASS
			26/8	18.26	-0.75	17.51	36	PASS
			52/40	18.25	-0.75	17.50	36	PASS
			106/54	18.98	-0.75	18.23	36	PASS

802.11ax_HE20M Ch1								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
1	2412	MCS0	full	14.87	-3.13	11.74	36	PASS
			26/0	17.93	-3.13	14.80	36	PASS
			52/37	17.47	-3.13	14.34	36	PASS
			106/53	17.68	-3.13	14.55	36	PASS
6	2437	MCS0	full	17.60	-3.13	14.47	36	PASS
11	2462	MCS0	full	15.51	-3.13	12.38	36	PASS
			26/8	17.83	-3.13	14.70	36	PASS
			52/40	17.71	-3.13	14.58	36	PASS
			106/54	18.43	-3.13	15.30	36	PASS

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802.11ax_HE20M MIMO										
CH	Freq. (MHz)	Data Rate	RU Confi g	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
1	2412	MCS0	full	14.84	15.73	18.32	1.23	19.55	36	PASS
			26/0	17.75	18.18	20.98	1.23	22.21	36	PASS
			52/37	17.41	17.84	20.64	1.23	21.87	36	PASS
			106/53	17.50	18.19	20.87	1.23	22.10	36	PASS
6	2437	MCS0	full	17.43	18.25	20.87	1.23	22.10	36	PASS
11	2462	MCS0	full	15.49	16.07	18.80	1.23	20.03	36	PASS
			26/8	17.44	18.26	20.88	1.23	22.11	36	PASS
			52/40	17.47	18.25	20.89	1.23	22.12	36	PASS
			106/54	17.70	18.22	20.98	1.23	22.21	36	PASS

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802.11ax_HE40M Ch0

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	full	15.85	-0.75	15.10	36	PASS
			242/61	18.32	-0.75	17.57	36	PASS
6	2437	MCS0	full	18.08	-0.75	17.33	36	PASS
9	2452	MCS0	full	14.80	-0.75	14.05	36	PASS
			242/62	18.06	-0.75	17.31	36	PASS

802.11ax_HE40M Ch1

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
3	2422	MCS0	full	15.37	-3.13	12.24	36	PASS
			242/61	18.05	-3.13	14.92	36	PASS
6	2437	MCS0	full	17.46	-3.13	14.33	36	PASS
9	2452	MCS0	full	14.41	-3.13	11.28	36	PASS
			242/62	17.65	-3.13	14.52	36	PASS

802.11ax_HE40M MIMO

CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit	RESULT
				CH 0	CH 1					
3	2422	MCS0	full	15.23	15.92	18.62	1.23	19.85	36	PASS
			242/61	17.65	18.26	20.99	1.23	22.22	36	PASS
6	2437	MCS0	full	17.28	18.14	20.76	1.23	21.99	36	PASS
9	2452	MCS0	full	14.35	14.78	17.60	1.23	18.83	36	PASS
			242/62	17.48	18.25	20.91	1.23	22.14	36	PASS

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9 EMISSION BANDWIDTH MEASUREMENT

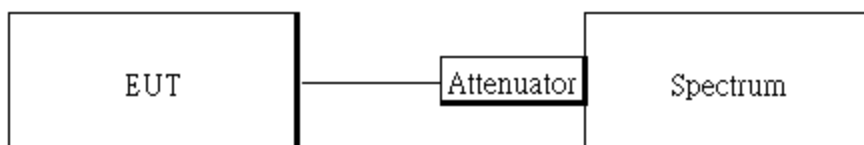
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071571	06/27/2020	06/26/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as
 RBW= 100kHz ,
 VBW = 3 X RBW,
 Span= 2 to 5 times of the OBW,
 Sweep=auto,
 Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Set the spectrum analyzer as
 RBW= 1 % to 5% of 99% Bandwidth ,
 VBW \geq 3 X RBW,
 Span= large enough to capture all products of the modulation process,
 Sweep=auto,
 Detector = Peak, and Max hold for 99% Bandwidth test.
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all test default channel is completed

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9.5 6dB Bandwidth

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8105.00	> 500	PASS
2437	8103.00	> 500	PASS
2462	8064.00	> 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8107.00	> 500	PASS
2437	8108.00	> 500	PASS
2462	8060.00	> 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16080.00	> 500	PASS
2437	16350.00	> 500	PASS
2462	16320.00	> 500	PASS

802.11g Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15950.00	> 500	PASS
2437	16390.00	> 500	PASS
2462	16380.00	> 500	PASS

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16950.00	> 500	PASS
2437	17560.00	> 500	PASS
2462	17210.00	> 500	PASS

802.11_n_HT20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17180.00	> 500	PASS
2437	17600.00	> 500	PASS
2462	17600.00	> 500	PASS

802.11_ax_HE20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18830.00	> 500	PASS
2437	18940.00	> 500	PASS
2462	18950.00	> 500	PASS

802.11_ax_HE20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18720.00	> 500	PASS
2437	18890.00	> 500	PASS
2462	18870.00	> 500	PASS

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802.11_n_HT40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35400.00	> 500	PASS
2437	36080.00	> 500	PASS
2452	35720.00	> 500	PASS

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35750.00	> 500	PASS
2437	36350.00	> 500	PASS
2452	35750.00	> 500	PASS

802.11_ax_HE40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	37590.00	> 500	PASS
2437	37900.00	> 500	PASS
2452	37500.00	> 500	PASS

802.11_ax_HE40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	37140.00	> 500	PASS
2437	37900.00	> 500	PASS
2452	37750.00	> 500	PASS

* Note: Offset 11.7dB for 2.4G 802.11b/g/n_20

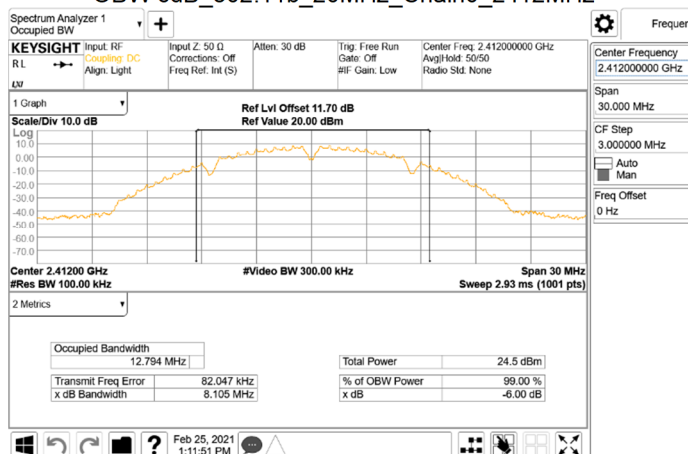
*Refer to next page for plots

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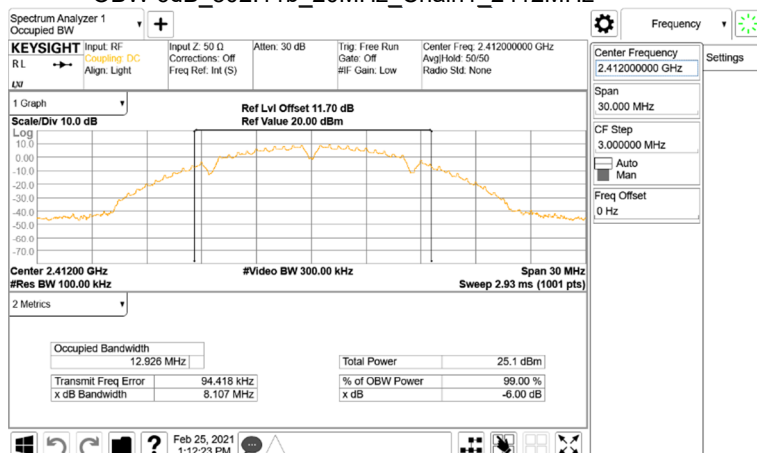
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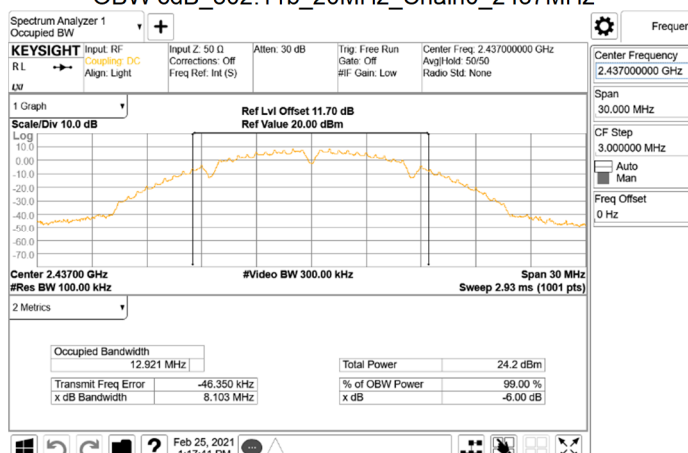
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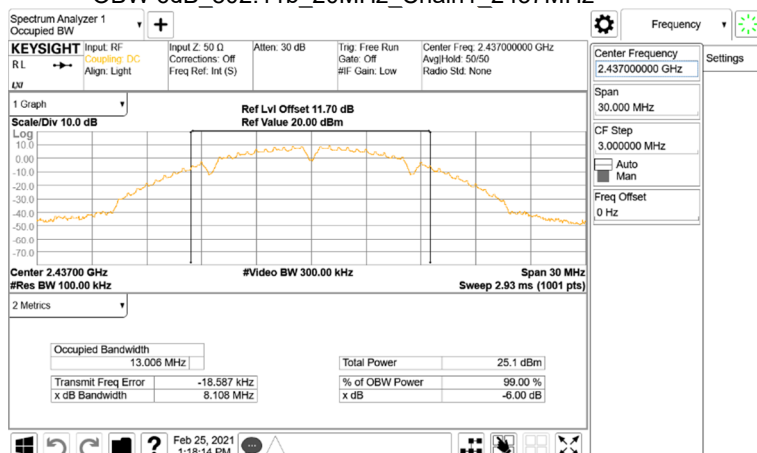
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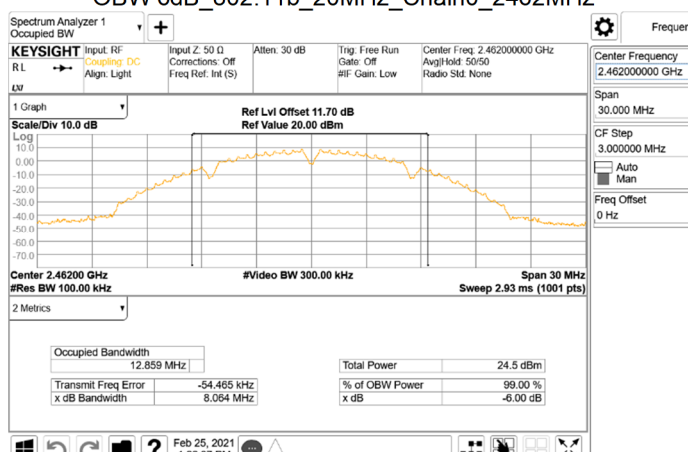
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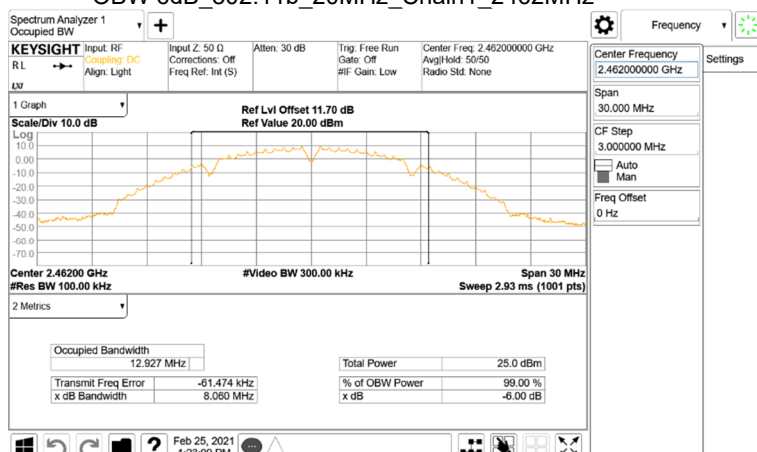
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OBW 6dB_802.11b_20MHz_Chain0_2462MHz



OBW 6dB_802.11b_20MHz_Chain1_2462MHz



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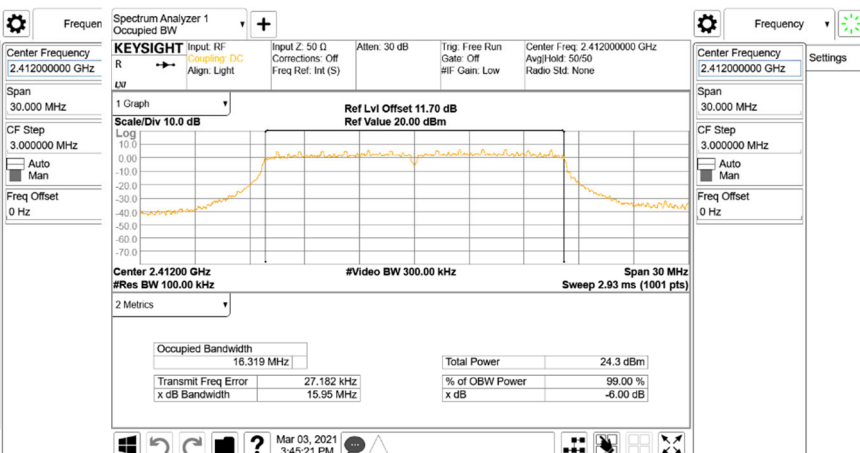
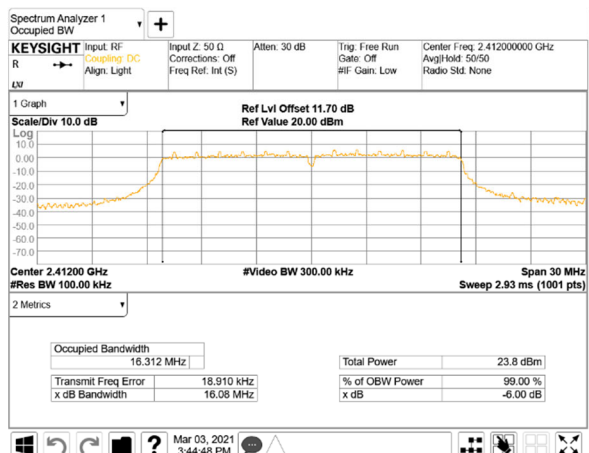
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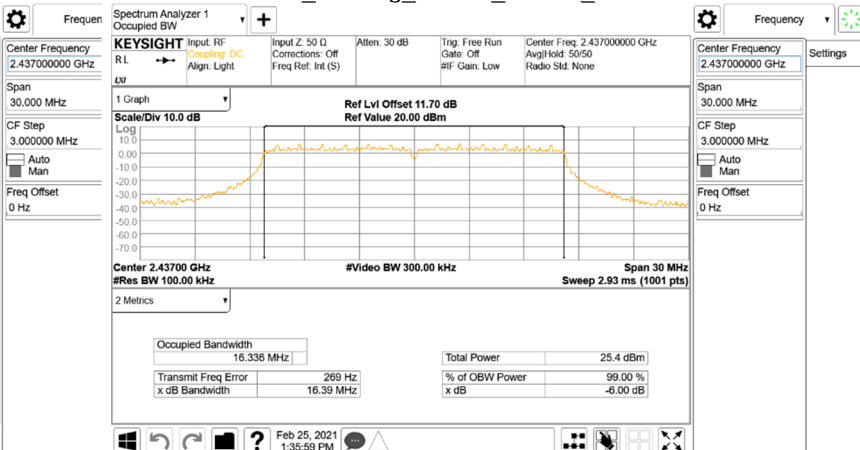
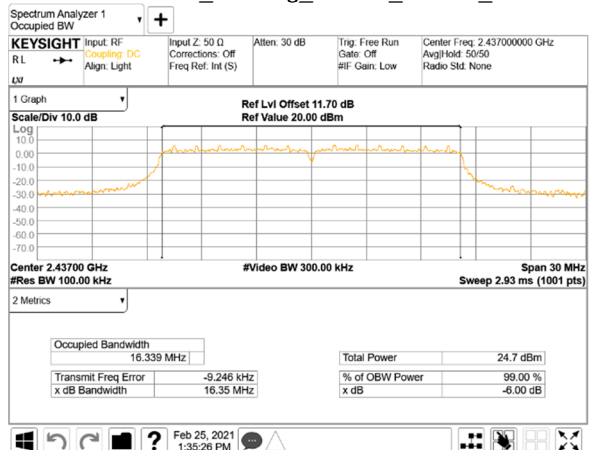
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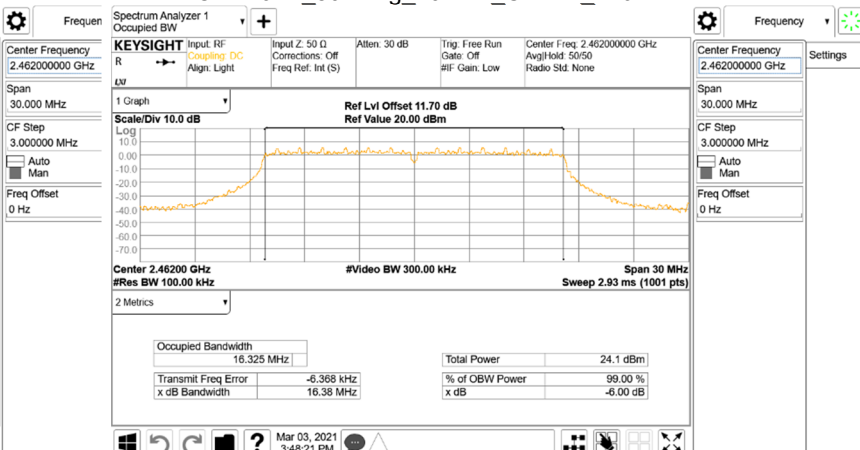
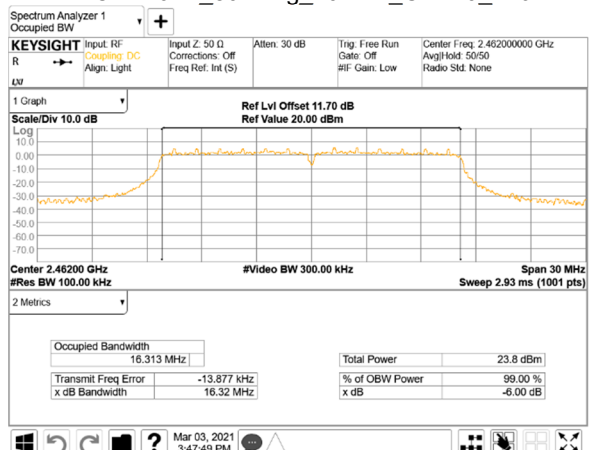
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OBW 6dB_802.11g_20MHz_Chain0_2462MHz

OBW 6dB_802.11g_20MHz_Chain1_2462MHz



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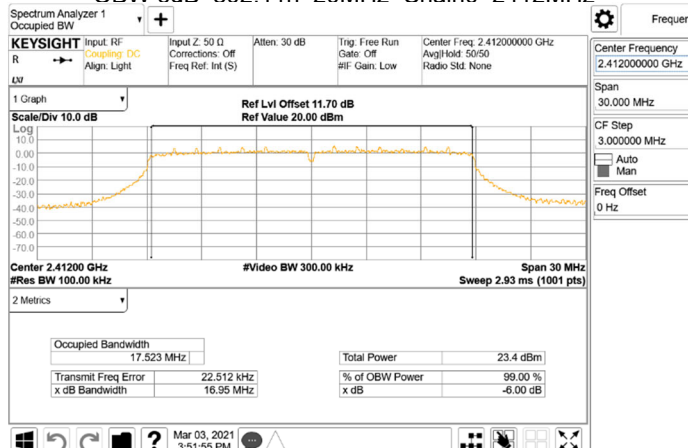
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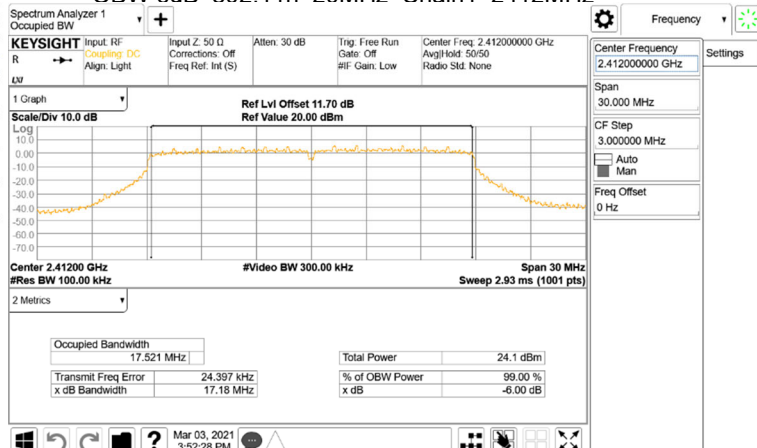
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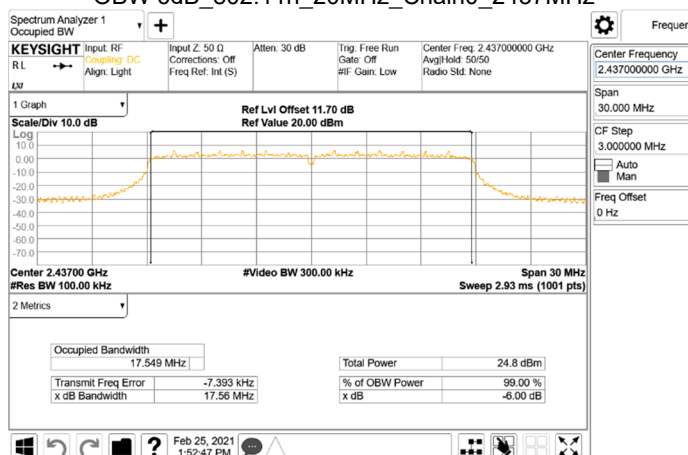
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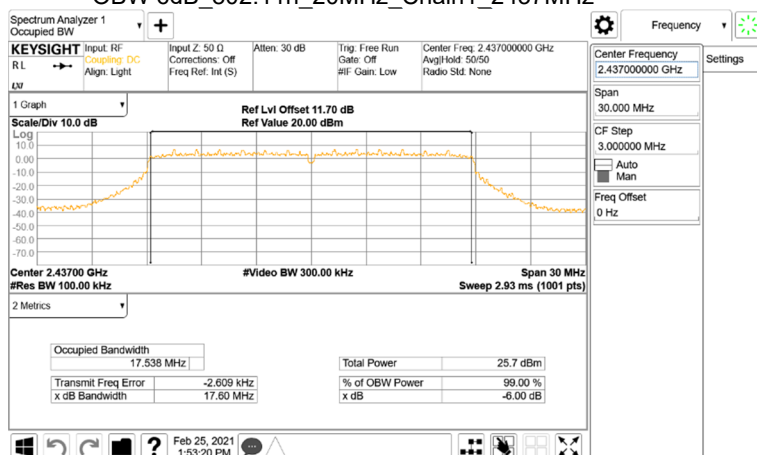
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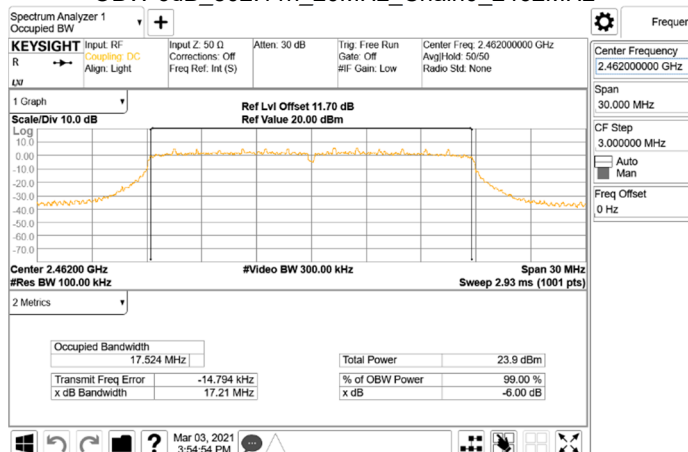
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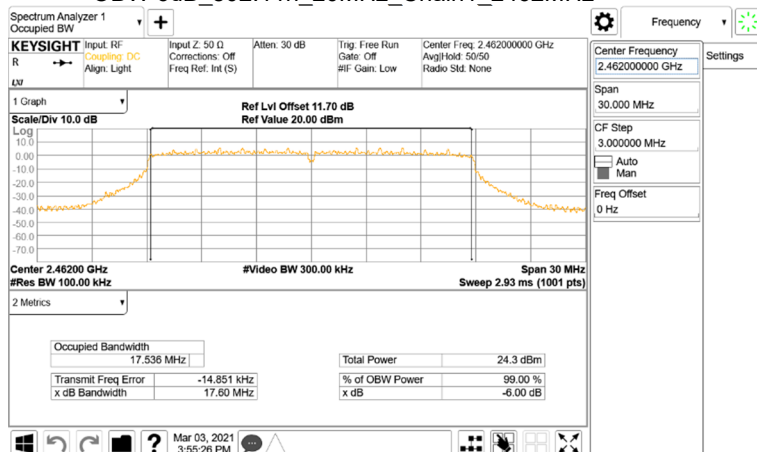
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OBW 6dB 802.11n_20MHz_Chain0_2462MHz



OBW 6dB 802.11n_20MHz_Chain1_2462MHz



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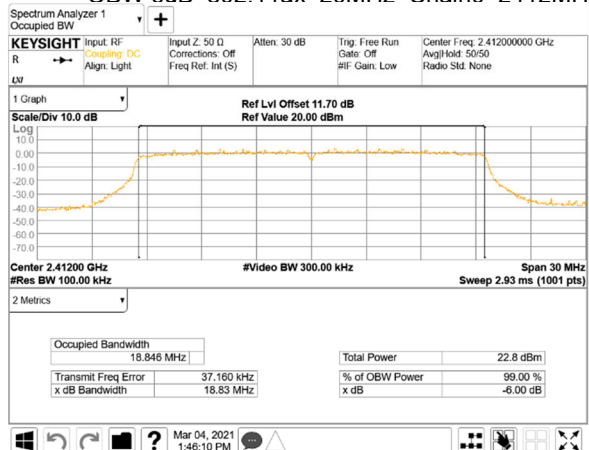
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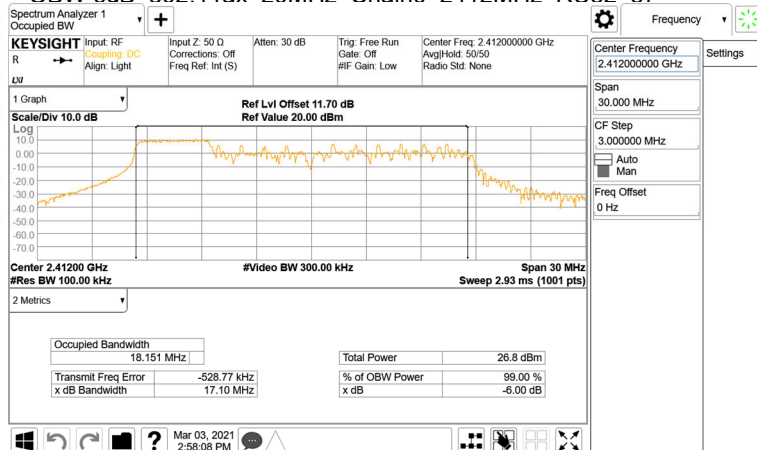
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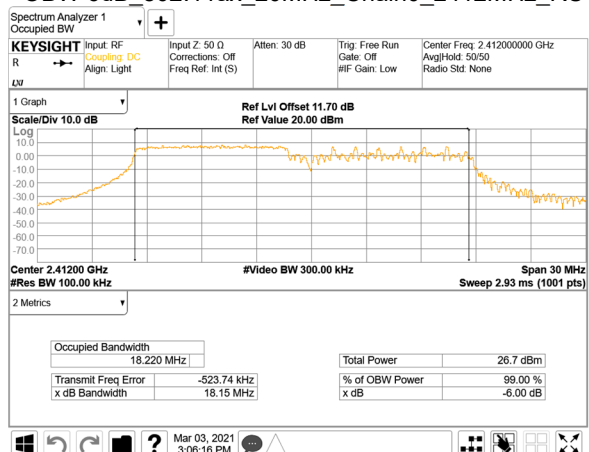
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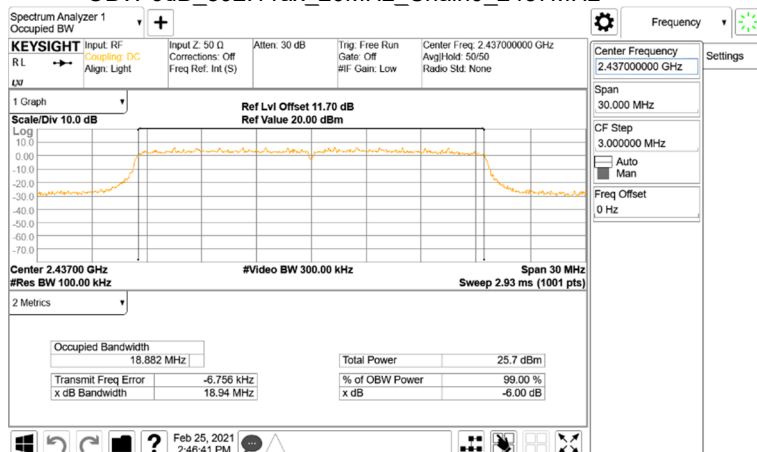
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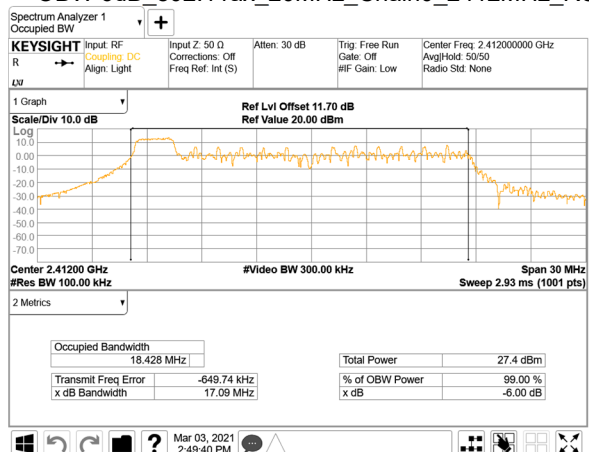
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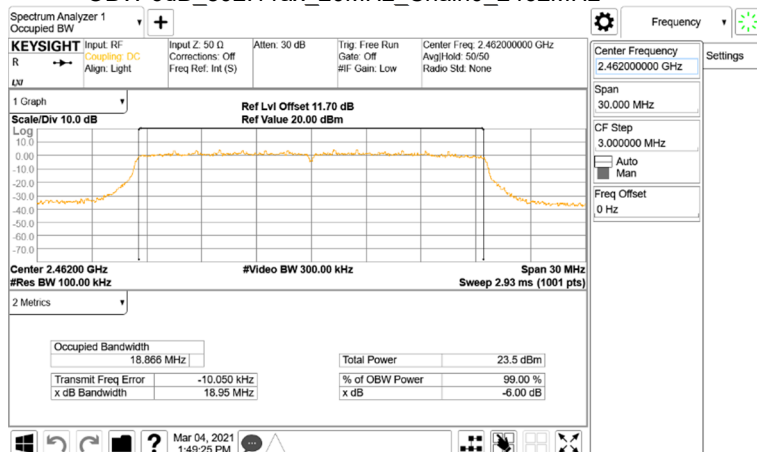
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OBW 6dB 802.11ax_20MHz_Chain0_2462MHz



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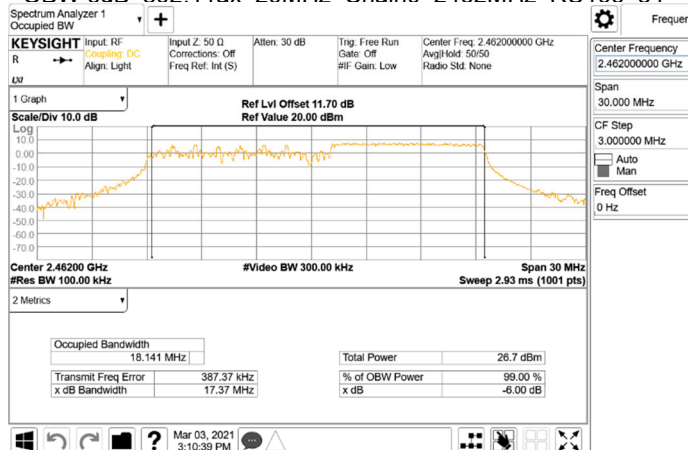
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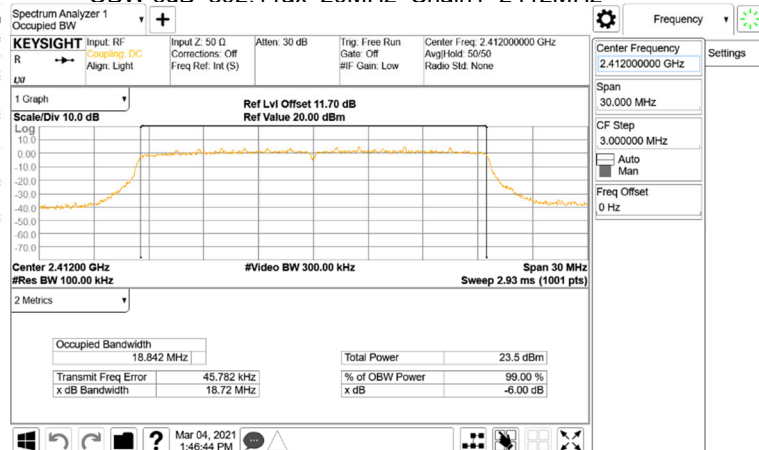
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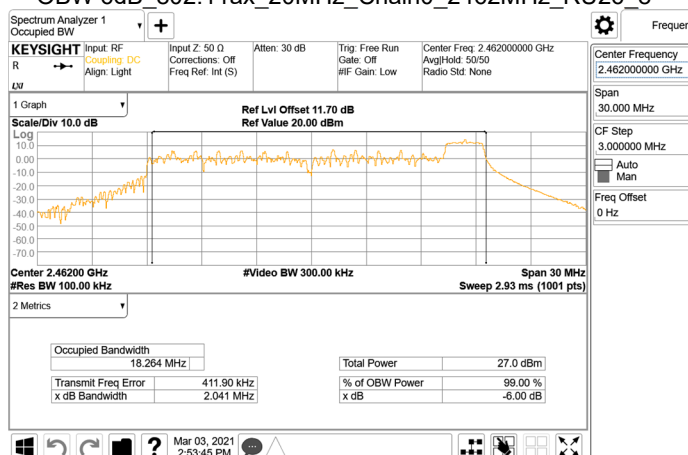
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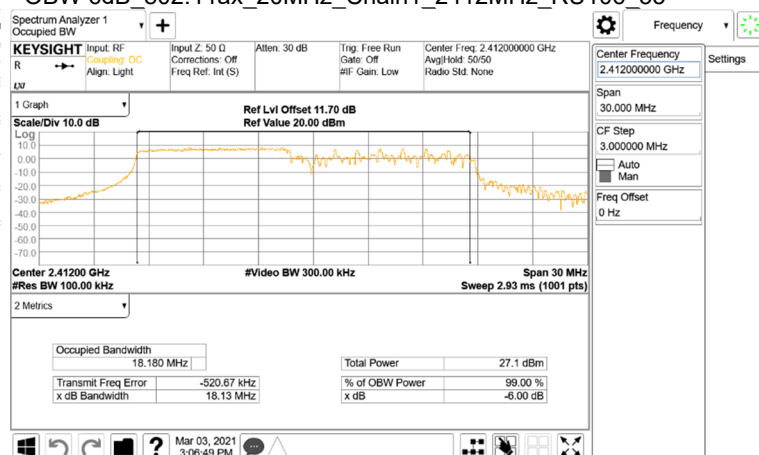
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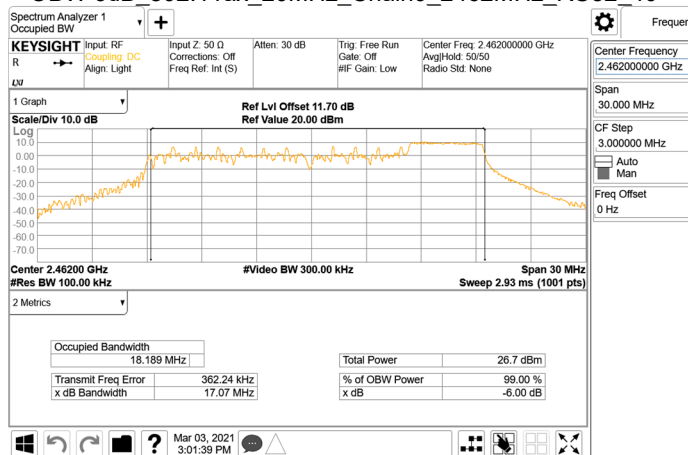
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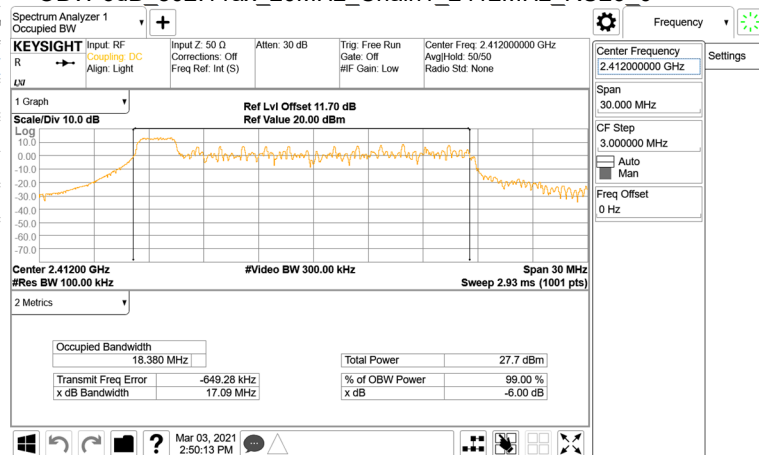
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