

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Microsoft Corporation
One Microsoft Way Redmond, WA 98052-6399, U.S.A

Product Name: Portable Computing Device

Brand Name: Microsoft

Model No.: 1952, 1953

Model Difference: The difference between 1952 and 1953 models is the C-Cover.
1952 - Config 1 and 1953 - Config 2

Report Number: E2/2020/70005

FCC ID: C3K1952

FCC Rule Part: §15.247, Cat: DTS

Issue Date: Feb. 24, 2021

Date of Test: Jul. 08, 2020 ~ Nov. 06, 2020, Nov. 26 ~ Dec. 11, 2020
Feb. 22, 2021

Date of EUT Received: Jul. 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 C63.10:2013 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	Remark
E2/2020/70005	Rev.00	Original.	Feb. 24, 2021	Revised By: Karen Huang

Note:

1、Multiple Model numbers or Trademarks

The variant model numbers are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

2、Disclaimer

Antenna information and Variant information between model numbers are provided by the applicant, the test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product description

Product Name:	Portable Computing Device
Brand Name:	Microsoft
Model No.:	1952, 1953
Model Difference:	The difference between 1952 and 1953 models is the C-Cover. 1952 - Config 1 and 1953 - Config 2
HW Version (Product):	EV2
SW Version (Product):	MTEOS.1.311.0
HW Version (Radio):	N/A
SW Version (Radio):	21.80.2.1
Radio Test Tool & Version:	DRTU: 21.21080.0.0-10722
Power Supply:	From Rechargeable Lithium-Ion Polymer Battery or AC/DC Adapter

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Wi-Fi 802.11	Frequency Range	Chan- nels	Rated Power (dBm)	Modulation Technology
b	2412-2472	13	23.31	DSSS,
g			24.47	OFDM/ OFDMA
n_HT20 ax_HE20			HE: 27.61 (MIMO)	
n_HT40 ax_HE40	2422-2462	9	HE: 27.45 (MIMO)	
Modulation type:		CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA in 802.11ax only		
Transistion 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 – 300.0Mbps 802.11 ax_HE20MHz: 8 –286.8 Mbps 802.11 ax_HE40MHz: 16 -573.6 Mbps		

1.2 Antenna Designation

Antenna Type	Config 1 / Config 2	Chain 0 / Chain 1	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	Config 1	Chain 0	2412-2472	-0.1	
		Chain 1	2412-2472	0.8	
	Config 2	Chain 0	2412-2472	-0.5	
		Chain 1	2412-2472	3.6	V

Note: Pre-scanned was done on the above 4 antennas, the Config 2 results higher emission at 2.4GHz. Therefore, the completed set of measurement was done on the antenna to be presented on this test report.

For MIMO mode, higher antenna gains are chosen to ensure higher directional gain is evaluated as below.

Transmission Chain	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
Chain 0	2412~2472	-0.1	2.13
Chain 1		3.6	

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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
ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

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 30 MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50 μ H/50 Ω 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

Fig. 2-1 Conducted (Antenna Port) Configuration Emission



Fig. 2-2 Radiated Emission & Conduction (AC Power Line) Emission



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	DRTU	INTEL	21.21080.0.0-10722	N/A	N/A	N/A

Note: The EUT is tested with all external accessory ports populated.

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3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b)(3)	Peak Output Power	Compliant
§15.247(a)(2)	6dB Emission Bandwidth	Compliant
§15.205 §15.209 §15.247(d)	Conducted Band Edge and Spurious Emission	Compliant
§15.205 §15.209 §15.247(d)	Radiated Band Edge and Spurious Emission	Compliant
§15.247€	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

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
12	2467
13	2472

9 channels are provided for 802.11n/ax 40M

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

EUT	Serial Number	Note
Portable Computing Device	04529170235 (Config 2)	
Portable Computing Device	00658810245 (Config 1)	

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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 given 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 checked="" type="checkbox"/> 1TX	<input 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 checked="" type="checkbox"/> 1TX	<input 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

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4. Observations have been done for 802.11 ax available RU configurations below and found that the lowest, Highest and Full RU results higher emissions.

Only one RU can be enabled at any given time.

802.11ax	20MHz				802.11ax	40MHz			
RU type	26-tone RU		52-tone RU		RU type	26-tone RU		52-tone RU	
RU index and subcarrier range	RU0	[-121: -96]	RU37	[-121: -70]	RU index and subcarrier range	RU0	[-243: -218]	RU37	[-243: -192]
	RU1	[-95: -70]	RU38	[-68: -17]		RU1	[-217: -192]	RU38	[-189: -138]
	RU2	[-68: -43]	RU39	[17: 68]		RU2	[-189: -164]	RU39	[-109: -58]
	RU3	[-42: -17]	RU40	[70: 121]		RU3	[-163: -138]	RU40	[-55: -4]
	RU4	[-16: -4, 4: 16]	RU41	N/A		RU4	[-136: -111]	RU41	[4: 55]
	RU5	[17: 42]	RU42	N/A		RU5	[-109: -84]	RU42	[58: 109]
	RU6	[43: 68]	RU43	N/A		RU6	[-83: -58]	RU43	[138: 189]
	RU7	[70: 95]	RU44	N/A		RU7	[-55: -30]	RU44	[192: 243]
	RU8	[96: 121]	RU45	N/A		RU8	[-29: -4]	RU45	N/A
	RU9	N/A	RU46	N/A		RU9	[4: 29]	RU46	N/A
	RU10	N/A	RU47	N/A		RU10	[30: 55]	RU47	N/A
	RU11	N/A	RU48	N/A		RU11	[58: 83]	RU48	N/A
	RU12	N/A	RU49	N/A		RU12	[84: 109]	RU49	N/A
	RU13	N/A	RU50	N/A		RU13	[111: 136]	RU50	N/A
	RU14	N/A	RU51	N/A		RU14	[138: 163]	RU51	N/A
	RU15	N/A	RU52	N/A		RU15	[164: 189]	RU52	N/A
	RU16	N/A				RU16	[192: 217]		
	RU17	N/A	106-tone RU			RU17	[218: 243]	106-tone RU	
	RU18	N/A	RU53	[-122: -17]		RU18	N/A	RU53	[-243: -138]
	RU19	N/A	RU54	[17: 122]		RU19	N/A	RU54	[-109: -4]
	RU20	N/A	RU55	N/A		RU20	N/A	RU55	[4: 109]
	RU21	N/A	RU56	N/A		RU21	N/A	RU56	[138: 243]
	RU22	N/A	RU57	N/A		RU22	N/A	RU57	N/A
	RU23	N/A	RU58	N/A		RU23	N/A	RU58	N/A
	RU24	N/A	RU59	N/A		RU24	N/A	RU59	N/A
	RU25	N/A	RU60	N/A		RU25	N/A	RU60	N/A
	RU26	N/A				RU26	N/A		
	RU27	N/A	242-tone RU			RU27	N/A	242-tone RU	
	RU28	N/A	RU61	[-122: -2, 2:122]		RU28	N/A	RU61	[-244: -3]
	RU29	N/A	RU62	N/A		RU29	N/A	RU62	[3: 244]
	RU30	N/A	RU63	N/A		RU30	N/A	RU63	N/A
	RU31	N/A	RU64	N/A		RU31	N/A	RU64	N/A
	RU32	N/A				RU32	N/A		
	RU33	N/A				RU33	N/A	484-tone RU	
	RU34	N/A				RU34	N/A	RU65	[-244: -3, 3: 244]
	RU35	N/A				RU35	N/A	RU66	N/A
RU36	N/A			RU36	N/A				

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5. 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.

Note:

Models 1952 and 1953 are electrically and RF equivalent as they use the same motherboard, radio module and on board RF components. Both models share a common WiFi and BT power table. The radio-related firmware and driver versions are the same for the two models. The peak antenna gains are in the antenna gain section of the report. Antenna port conducted emissions measurements are done on model 1953 (FCC ID: C3K1952). Highest antenna gain across the two models in each band has been considered while doing the radiated emission measurements.

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4.3 Radiated Emission Test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
RADIATED EMISSION TEST (BELOW 1 GHz)					
802.11g	1 to 13	6	OFDM	6	Ch0/Ch1
802.11n 20M	1 to 13	6	OFDM	HT 8	MIMO
802.11n 40M	1 to 11	6	OFDM	HT 0/ HT 8	Ch0/Ch1/MIMO
RADIATED EMISSION TEST (ABOVE 1 GHz)					
802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	1	Ch0/Ch1
802.11g	1 to 13	1, 6, 11, 12, 13	OFDM	6	Ch0/Ch1
802.11n 20M	1 to 13	1, 6, 11, 12, 13	OFDM	HT 0/ HT 8	Ch0/Ch1/MIMO
802.11n 40M	3 to 11	3, 6, 9, 10, 11	OFDM	HT 0/ HT 8	Ch0/Ch1/MIMO

RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODU- LATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11ax HE20	1 to 13	1,6	OFDMA	FULL RU 26/0 52/37 106/53	MCS0	Ch0/Ch1/MIMO
		11, 12, 13		FULL RU 26/8 52/40 106/54	MCS0	Ch0/Ch1/MIMO
802.11ax HE40	3 to 11	3		FULL RU 242/61	MCS0	Ch0/Ch1/MIMO
		6		FULL RU	MCS0	Ch0/Ch1/MIMO
		9, 10, 11		FULL RU 242/62	MCS0	Ch0/Ch1/MIMO
Note: Observation has been done on all RU configurations, the Full RU configuration yields higher emssions and average output power, and hence the radiated emission results are demon- strated in full RU configuration in this report.						

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Note:

The field strength of radiation emission was measured for 802.11b/g/n/ax WLAN Transmitter for above tested channel, the worst case NB 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 13	1, 6, 7, 11, 12, 13	DSSS	1	Ch0/Ch1
802.11g	1 to 13	1, 2, 3, 6, 8, 9, 10, 11, 12, 13	OFDM	6	Ch0/Ch1
802.11n 20M	1 to 13	1, 2, 3, 6, 8, 9, 10, 11, 12, 13	OFDM	HT0/HT8	Ch0/Ch1/MIMO
802.11n 40M	3 to 11	3, 4, 5, 6, 7, 8, 9, 10, 11	OFDM	HT0/HT8	Ch0/Ch1/MIMO

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CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODU- LATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
Peak Output Power,EIRP						
802.11ax HE20	1 to 13	1, 2	OFDMA	FULL RU 26/0 52/37 106/53	MCS0	Ch0/Ch1/MIMO
		3, 6, 7, 8		FULL RU	MCS0	Ch0/Ch1/MIMO
		9		FULL RU 106/54	MCS0	Ch0/Ch1/MIMO
		10, 11, 12, 13		FULL RU 26/8 52/40 106/54	MCS0	Ch0/Ch1/MIMO
802.11ax HE40	3 to 11	3, 4, 5		FULL RU 242/61	MCS0	Ch0/Ch1/MIMO
		6		FULL RU	MCS0	Ch0/Ch1/MIMO
		7, 8, 9, 10, 11		FULL RU 242/62	MCS0	Ch0/Ch1/MIMO
Power Density						
802.11ax HE20	1 to 13	1	OFDMA	FULL RU 26/0 52/37 106/53	MCS0	Ch0/Ch1/MIMO
		6, 7, 11, 12,		FULL RU	MCS0	Ch0/Ch1/MIMO
		13		FULL RU 26/8 52/40 106/54	MCS0	Ch0/Ch1/MIMO
802.11ax HE40	3 to 11	3		FULL RU 242/61	MCS0	Ch0/Ch1/MIMO
		6, 7, 9, 10		FULL RU	MCS0	Ch0/Ch1/MIMO
		11		FULL RU 242/62	MCS0	Ch0/Ch1/MIMO
Note: Observation has been done on all RU configurations, the Full RU configuration yields higher ems sions and average output power, and hence the radiated emission results are demonstrated in full RU configuration in this report.						

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Peak Output Power	+/- 0.84 dB
6dB Bandwidth	+/- 51.33 Hz
100 KHz Bandwidth Of Frequency Band Edges	+/- 0.84 dB
Peak Power Density	+/- 1.3 dB
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: +/-2.3dB
	30MHz – 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz – 18GHz: +/- 4.04dB
	18GHz – 40GHz: +/- 4.04dB
Polarization: Horizontal	9kHz~30MHz: +/-2.3dB
	30MHz – 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz – 18GHz: +/- 4.08dB
	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(μV)	
	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

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	03/25/2020	03/24/2021
EMI Test Receiver	R&S	ESCI	101342	04/28/2020	04/27/2021

6.3 EUT Setup

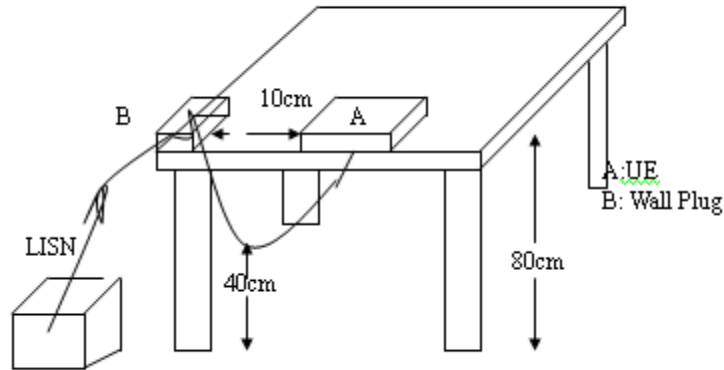
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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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.

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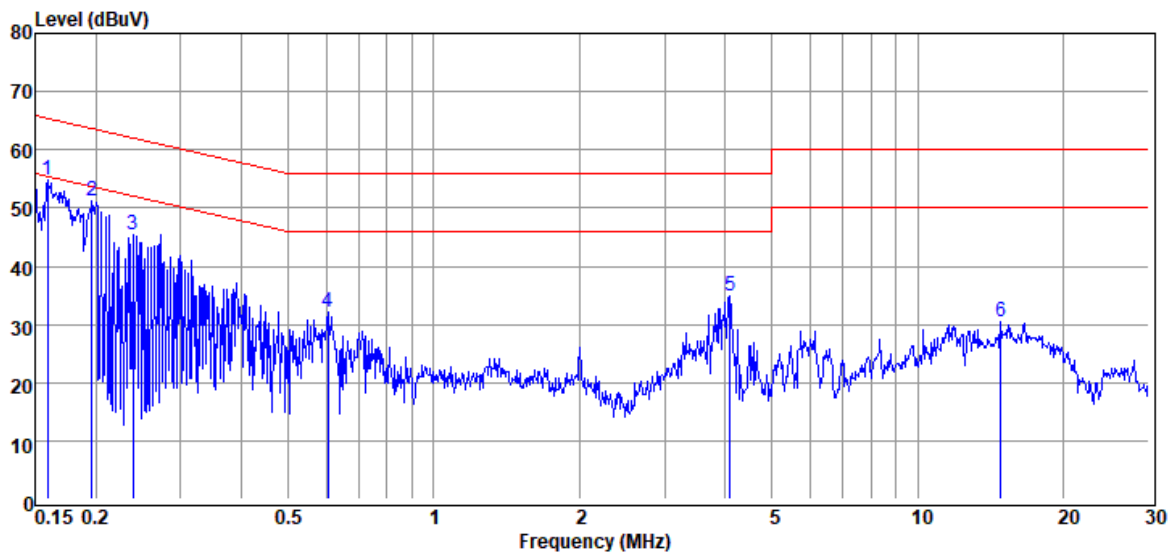
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Adapter 1

Report Number	:E2/2020/70005	Test Site	:Conduction Room C
Test Mode	:WLAN 2.4G	Test Date	:2020-09-02
Power	:120V/60Hz	Temp./Humi.	:23.7/64
Probe	:L1	Engineer	:Ashton
Note:	:EUT_ Config 1		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.16	Peak	44.66	10.22	54.88	65.52	-10.64
0.20	Peak	41.03	10.22	51.25	63.76	-12.51
0.24	Peak	35.13	10.22	45.35	62.13	-16.78
0.60	Peak	21.69	10.29	31.98	56.00	-24.02
4.09	Peak	24.27	10.48	34.75	56.00	-21.25
14.83	Peak	19.66	10.79	30.45	60.00	-29.55

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Report Number :E2/2020/70005

Test Site :Conduction Room C

Test Mode :WLAN 2.4G

Test Date :2020-09-02

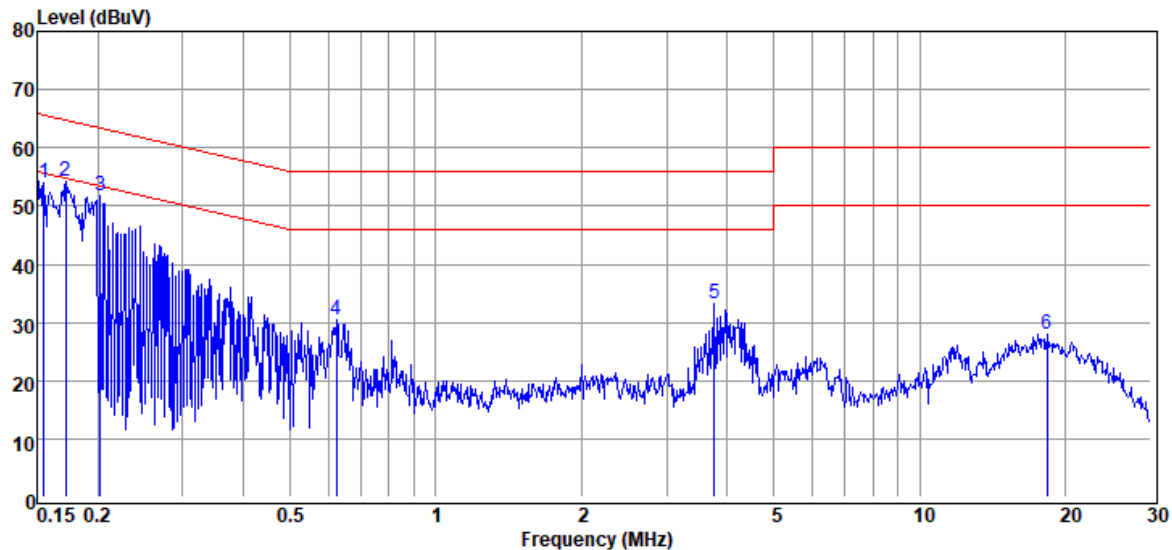
Power :120V/60Hz

Temp./Humi. :23.7/64

Probe :N

Engineer :Ashton

Note: :EUT_ Config 1



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.15	Peak	43.82	10.21	54.03	65.74	-11.71
0.17	Peak	43.93	10.21	54.14	64.86	-10.72
0.20	Peak	41.43	10.21	51.64	63.49	-11.85
0.62	Peak	20.21	10.28	30.49	56.00	-25.51
3.76	Peak	22.60	10.49	33.09	56.00	-22.91
18.33	Peak	17.10	10.84	27.94	60.00	-32.06

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Report Number :E2/2020/70005

Test Site :Conduction Room C

Test Mode :WLAN 2.4G

Test Date :2020-09-02

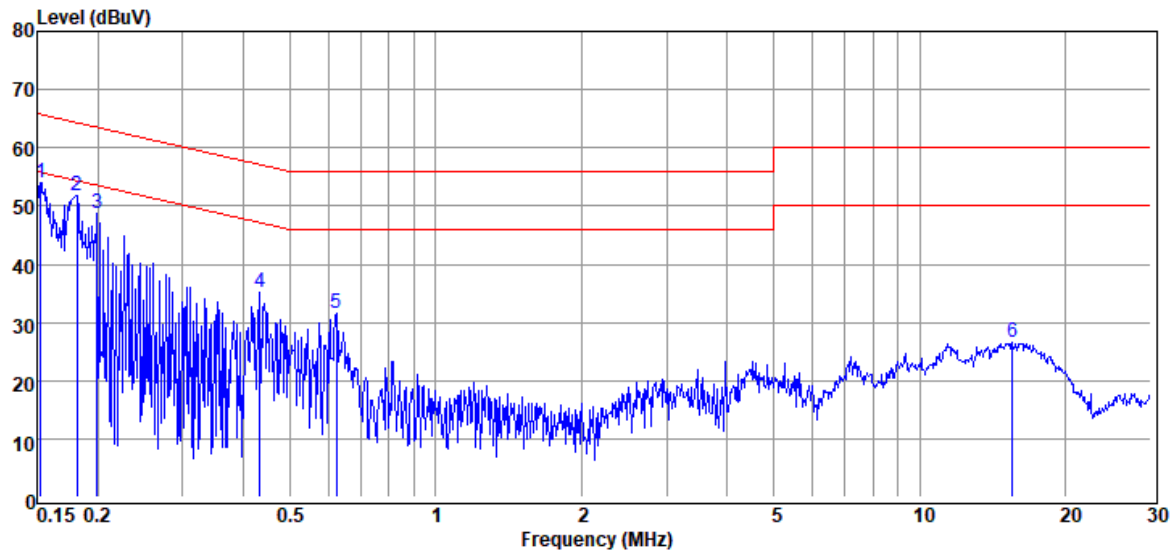
Power :120V/60Hz

Temp./Humi. :24.0/64

Probe :L1

Engineer :Ashton

Note: :EUT_ Config 2



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level	FS				
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.15	Peak	43.90	10.22	54.12	65.87	-11.75
0.18	Peak	41.47	10.22	51.69	64.42	-12.73
0.20	Peak	38.51	10.22	48.73	63.62	-14.89
0.43	Peak	24.84	10.22	35.06	57.20	-22.14
0.62	Peak	21.25	10.29	31.54	56.00	-24.46
15.55	Peak	15.74	10.80	26.54	60.00	-33.46

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Report Number :E2/2020/70005

Test Site :Conduction Room C

Test Mode :WLAN 2.4G

Test Date :2020-09-02

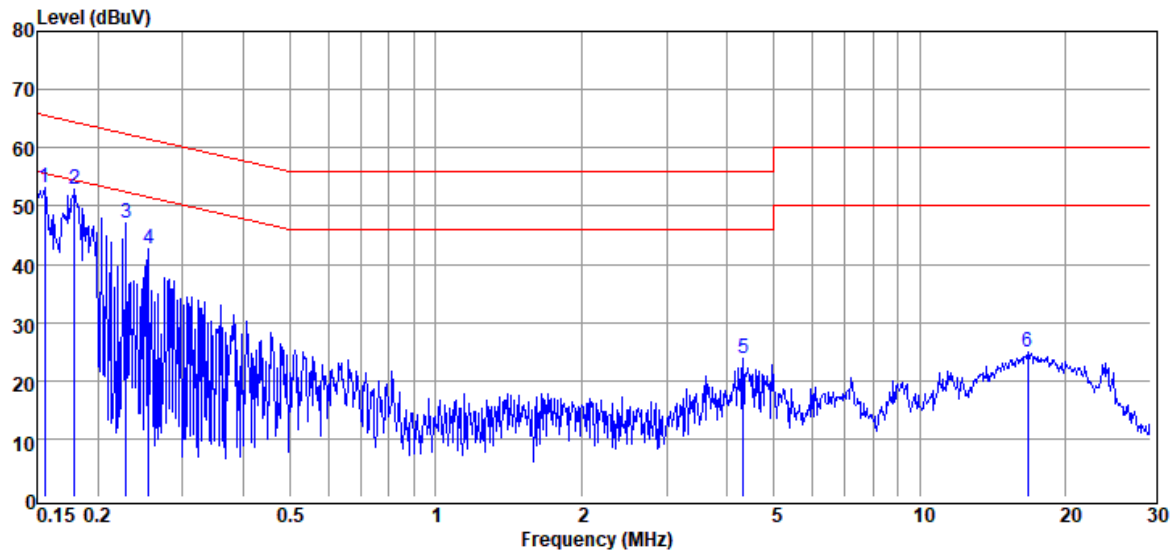
Power :120V/60Hz

Temp./Humi. :24.0/64

Probe :N

Engineer :Ashton

Note: :EUT_ Config 2



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.16	Peak	42.96	10.21	53.17	65.69	-12.52
0.18	Peak	42.55	10.21	52.76	64.50	-11.74
0.23	Peak	36.73	10.21	46.94	62.48	-15.54
0.25	Peak	32.30	10.21	42.51	61.60	-19.09
4.32	Peak	13.26	10.50	23.76	56.00	-32.24
16.75	Peak	14.22	10.82	25.04	60.00	-34.96

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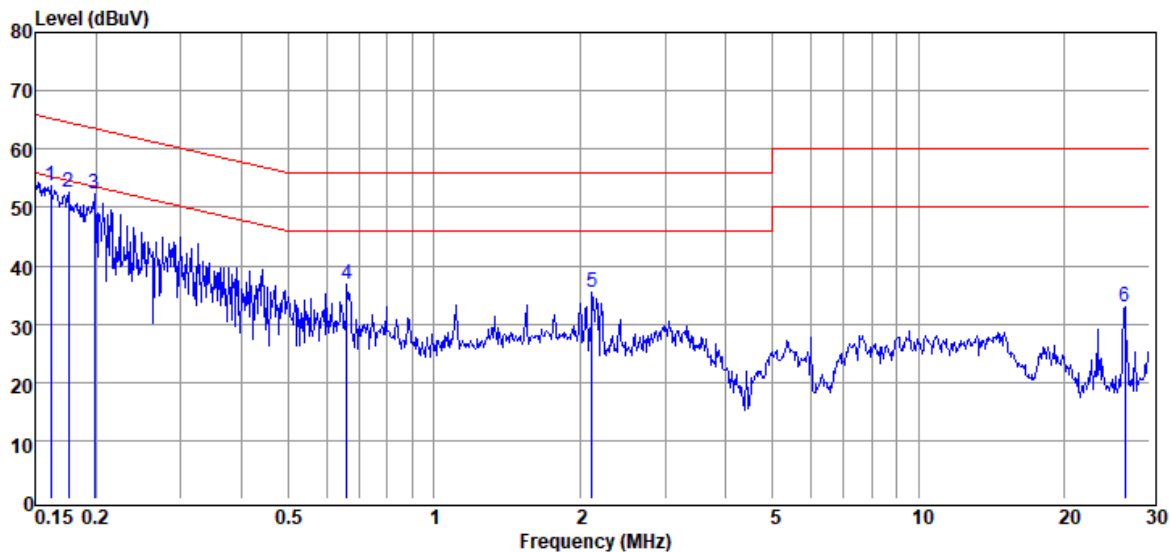
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Adapter 2

Report Number :E2/2020/70005
Test Mode :WLAN 2.4G
Power :120V/60Hz
Probe :L1
Note: : Config 1

Test Site :Conduction Room C
Test Date :2020-08-14
Temp./Humi. :24.1/61
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.16	Peak	43.52	10.22	53.74	65.38	-11.64
0.18	Peak	42.43	10.22	52.65	64.68	-12.03
0.20	Peak	42.03	10.22	52.25	63.67	-11.42
0.66	Peak	26.39	10.31	36.70	56.00	-19.30
2.12	Peak	24.86	10.45	35.31	56.00	-20.69
26.70	Peak	21.98	11.01	32.99	60.00	-27.01

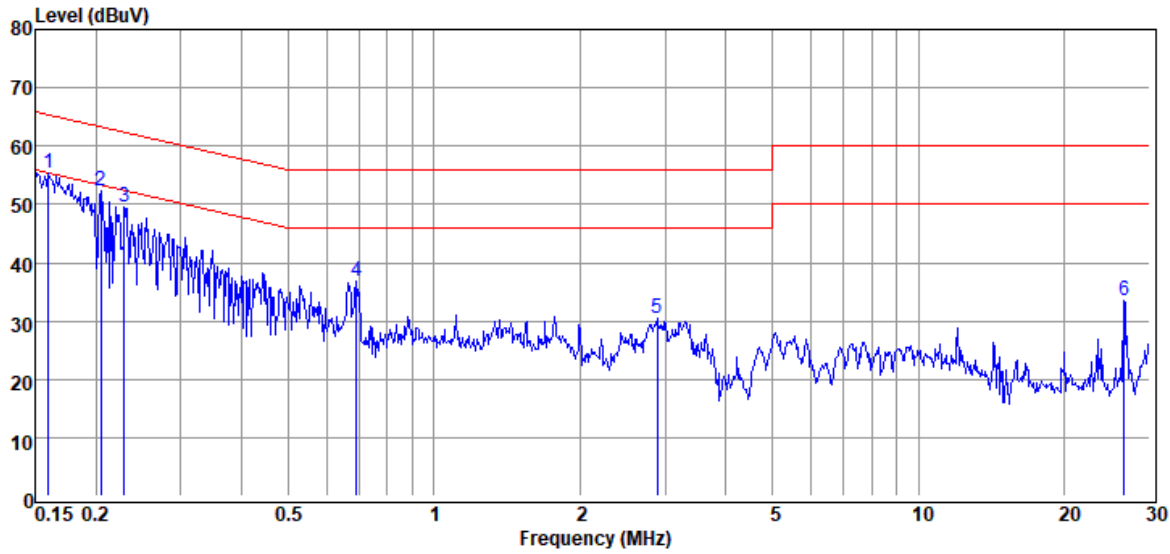
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Report Number :E2/2020/70005
Test Mode :WLAN 2.4G
Power :120V/60Hz
Probe :N
Note: : Config 1

Test Site :Conduction Room C
Test Date :2020-08-14
Temp./Humi. :24.1/61
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.16	Peak	45.21	10.21	55.42	65.47	-10.05
0.21	Peak	42.15	10.21	52.36	63.40	-11.04
0.23	Peak	39.37	10.21	49.58	62.48	-12.90
0.69	Peak	26.50	10.33	36.83	56.00	-19.17
2.88	Peak	20.04	10.47	30.51	56.00	-25.49
26.56	Peak	22.43	11.01	33.44	60.00	-26.56

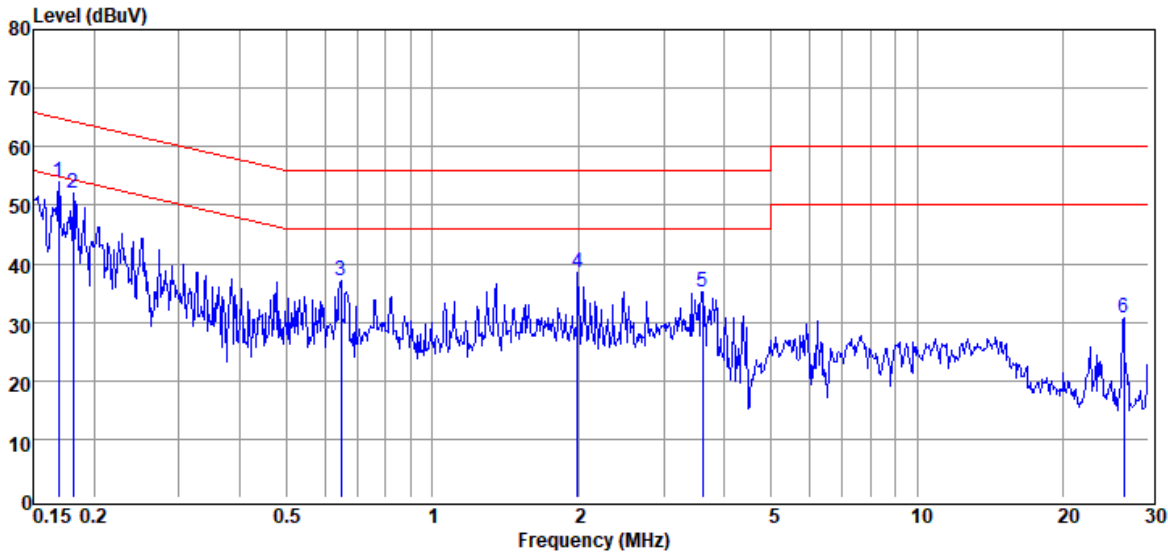
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Report Number :E2/2020/70005
Test Mode :WLAN 2.4G
Power :120V/60Hz
Probe :L1
Note: : Config 2

Test Site :Conduction Room C
Test Date :2020-08-14
Temp./Humi. :24.1/61
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode		Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.17	Peak	43.63	10.22	53.85	64.99	-11.14
0.18	Peak	41.91	10.22	52.13	64.42	-12.29
0.65	Peak	26.90	10.31	37.21	56.00	-18.79
1.99	Peak	28.07	10.45	38.52	56.00	-17.48
3.60	Peak	24.75	10.48	35.23	56.00	-20.77
26.70	Peak	19.69	11.01	30.70	60.00	-29.30

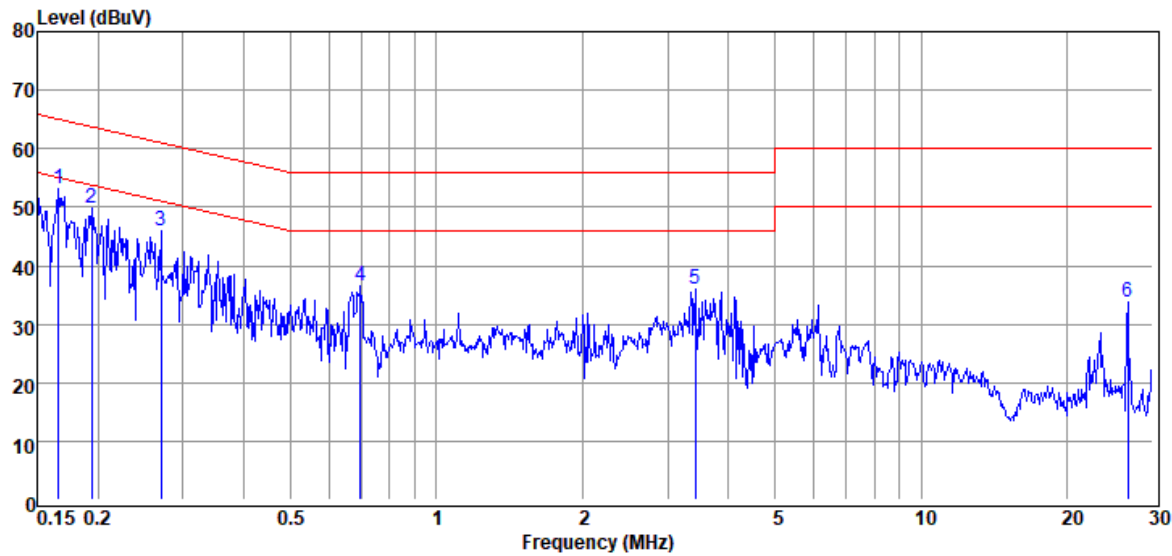
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Report Number :E2/2020/70005
Test Mode :WLAN 2.4G
Power :120V/60Hz
Probe :N
Note: : Config 2

Test Site :Conduction Room C
Test Date :2020-08-14
Temp./Humi. :24.1/61
Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
MHz	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.17	Peak	42.88	10.21	53.09	65.16	-12.07
0.19	Peak	39.71	10.21	49.92	63.84	-13.92
0.27	Peak	35.62	10.21	45.83	61.12	-15.29
0.70	Peak	26.32	10.33	36.65	56.00	-19.35
3.42	Peak	25.48	10.48	35.96	56.00	-20.04
26.70	Peak	22.78	11.02	33.80	60.00	-26.20

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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	99.50	0.02	0.12	0.01
802.11g	97.89	0.09	0.48	1.00
802.11n_20	99.59	0.02	0.08	0.01
802.11n_40	99.49	0.02	0.11	0.01
802.11ax_20	99.68	0.01	0.05	0.01
802.11ax_40	99.04	0.04	0.11	0.01

7.3 Duty Cycle test plots

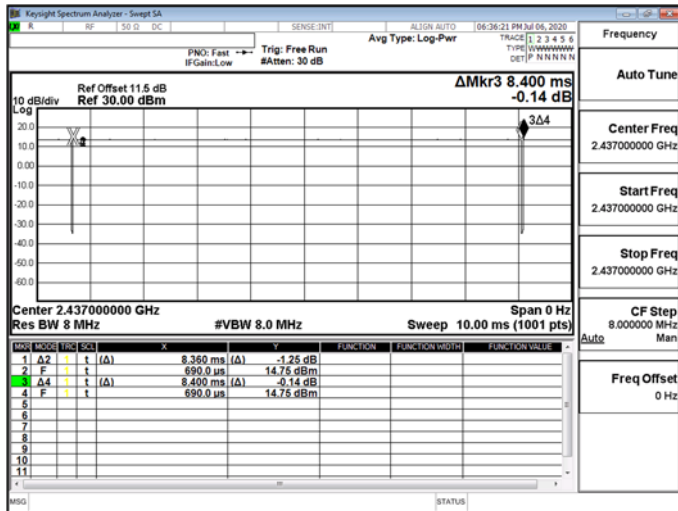
Please refer to next page for test plots.

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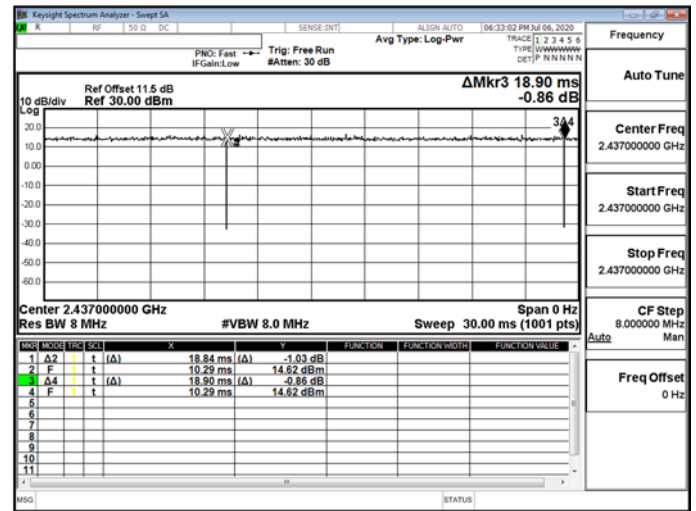
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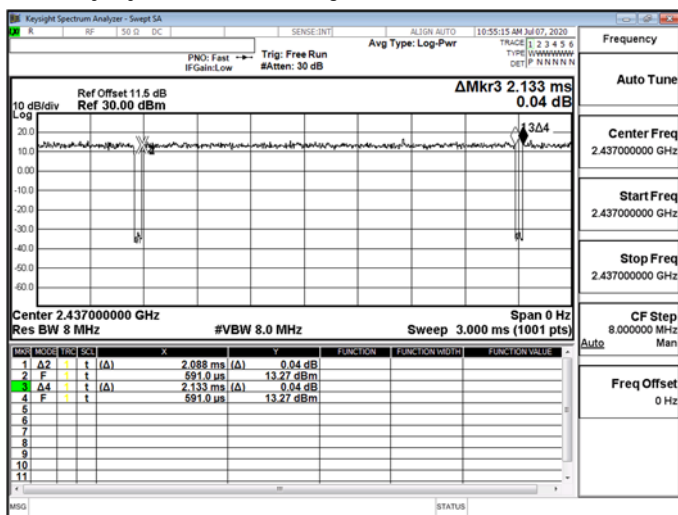
Duty CycleWLAN\802.11b_20MHz_Chain1_2437MHz



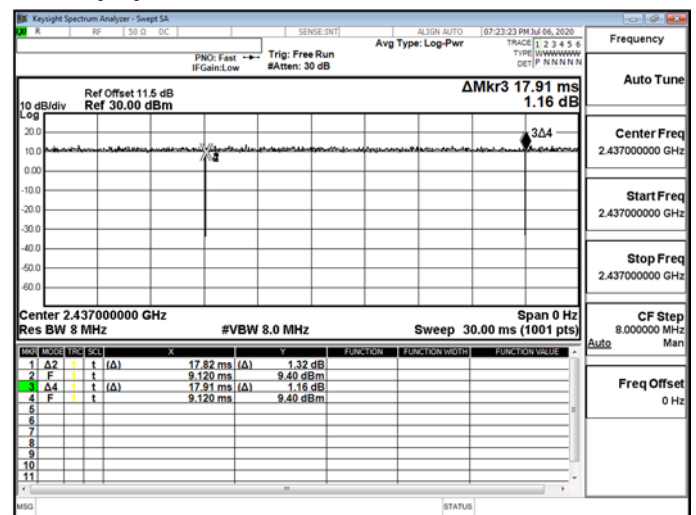
Duty CycleWLAN\802.11ax_20MHz_Chain1_2437MHz



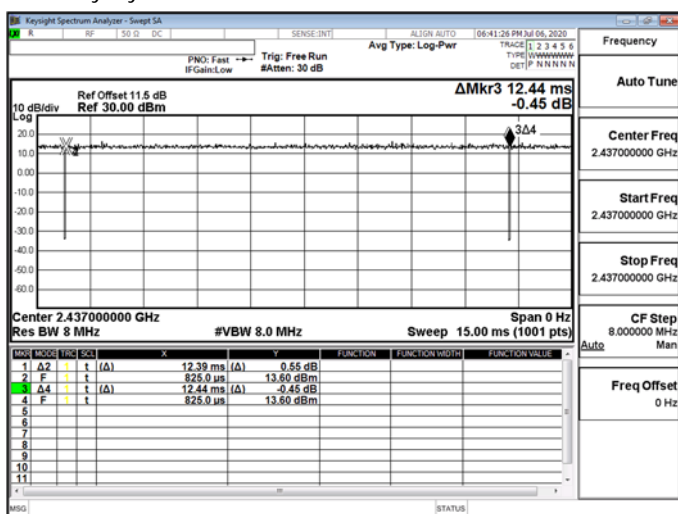
Duty CycleWLAN\802.11g_20MHz_Chain1_2437MHz



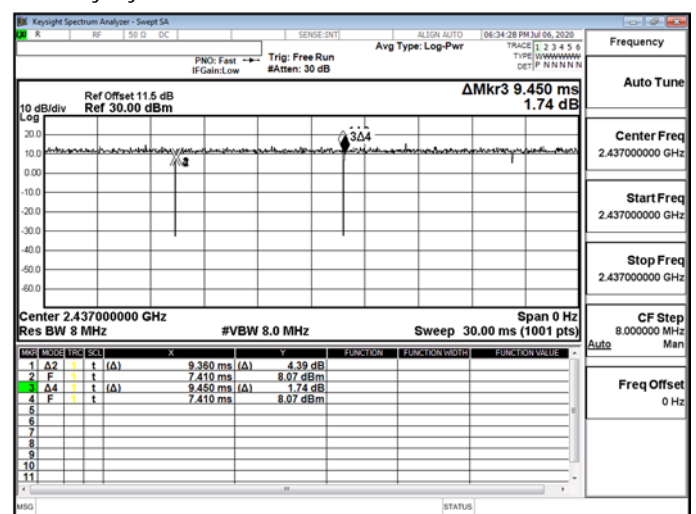
Duty CycleWLAN\802.11n_40MHz_Chain1_2437MHz



Duty CycleWLAN\802.11n_20MHz_Chain1_2437MHz



Duty CycleWLAN\802.11ax_40MHz_Chain1_2437MHz



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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.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from 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). d). (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.

(ii) If all transmit signals are *completely uncorrelated*, then

$$\text{Directional gain} = 10 \log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10})/NANT] \text{ dBi}$$

where

NANT = the total number of antennas

G is the gain in dBi.

The antenna gain is not greater than 6 dBi. Therefore, reduction of limit for power is not required.

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8.2 Measurement Equipment Used

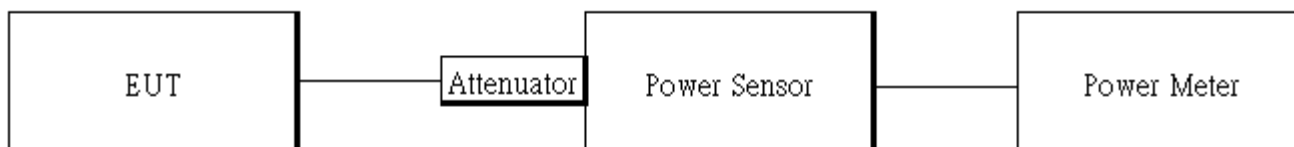
Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021
Attenuator	Marvelous	MVE2213-10	RF80	11/20/2019	11/19/2020
IPEX-4 Cable	Woken	00100A1H646 027	N/A	N/A	N/A

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Attenuator	Marvelous	MVE2213-10	RF80	11/19/2020	11/18/2021

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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8.5 Measurement Result

Mode: Chain 0

802.11b Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	22.01	30.00	PASS
6	2437	1	22.12	30.00	PASS
7	2442	1	22.56	30.00	PASS
11	2462	1	22.57	30.00	PASS
12	2467	1	20.56	30.00	PASS
13	2472	1	17.95	30.00	PASS
802.11b Ch0					
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	19.90	30.00	PASS
6	2437	1	19.94	30.00	PASS
7	2442	1	19.83	30.00	PASS
11	2462	1	19.86	30.00	PASS
12	2467	1	17.73	30.00	PASS
13	2472	1	14.40	30.00	PASS

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802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	21.91	30.00	PASS
2	2417	6	23.51	30.00	PASS
3	2422	6	24.35	30.00	PASS
6	2437	6	24.31	30.00	PASS
7	2442	6	24.23	30.00	PASS
8	2447	6	24.33	30.00	PASS
9	2452	6	23.57	30.00	PASS
10	2457	6	23.18	30.00	PASS
11	2462	6	20.27	30.00	PASS
12	2467	6	20.86	30.00	PASS
13	2472	6	18.39	30.00	PASS
802.11g Ch0					
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.94	30.00	PASS
2	2417	6	19.62	30.00	PASS
3	2422	6	19.87	30.00	PASS
6	2437	6	19.95	30.00	PASS
7	2442	6	19.87	30.00	PASS
8	2447	6	19.85	30.00	PASS
9	2452	6	19.22	30.00	PASS
10	2457	6	19.49	30.00	PASS
11	2462	6	15.90	30.00	PASS
12	2467	6	12.82	30.00	PASS
13	2472	6	8.04	30.00	PASS

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802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	HT0	21.05	30.00	PASS
2	2417	HT0	23.73	30.00	PASS
3	2422	HT0	24.35	30.00	PASS
6	2437	HT0	24.50	30.00	PASS
7	2442	HT0	24.32	30.00	PASS
8	2447	HT0	24.33	30.00	PASS
9	2452	HT0	23.58	30.00	PASS
10	2457	HT0	23.61	30.00	PASS
11	2462	HT0	18.93	30.00	PASS
12	2467	HT0	17.54	30.00	PASS
13	2472	HT0	17.78	30.00	PASS
802.11n_HT20M Ch0					
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	HT0	15.91	30.00	PASS
2	2417	HT0	18.98	30.00	PASS
3	2422	HT0	19.94	30.00	PASS
6	2437	HT0	19.94	30.00	PASS
7	2442	HT0	19.89	30.00	PASS
8	2447	HT0	19.82	30.00	PASS
9	2452	HT0	18.72	30.00	PASS
10	2457	HT0	18.74	30.00	PASS
11	2462	HT0	13.87	30.00	PASS
12	2467	HT0	12.39	30.00	PASS
13	2472	HT0	7.31	30.00	PASS

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802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	20.64	30.00	PASS
4	2427	HT0	22.43	30.00	PASS
5	2432	HT0	21.73	30.00	PASS
6	2437	HT0	24.45	30.00	PASS
7	2442	HT0	21.43	30.00	PASS
8	2447	HT0	19.32	30.00	PASS
9	2452	HT0	17.91	30.00	PASS
10	2457	HT0	17.04	30.00	PASS
11	2462	HT0	19.13	30.00	PASS
802.11n_HT40M Ch0					
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	14.48	30.00	PASS
4	2427	HT0	16.71	30.00	PASS
5	2432	HT0	15.98	30.00	PASS
6	2437	HT0	19.91	30.00	PASS
7	2442	HT0	15.19	30.00	PASS
8	2447	HT0	13.61	30.00	PASS
9	2452	HT0	12.37	30.00	PASS
10	2457	HT0	9.73	30.00	PASS
11	2462	HT0	8.79	30.00	PASS

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802.11ax_HE20M Ch0						
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	20.15	30.00	PASS
			26/0	22.30	30.00	PASS
			52/37	24.29	30.00	PASS
			106/53	23.13	30.00	PASS
2	2417	MCS0	full	23.20	30.00	PASS
			26/0	23.94	30.00	PASS
			52/37	23.83	30.00	PASS
3	2422	MCS0	full	24.18	30.00	PASS
6	2437	MCS0	full	24.51	30.00	PASS
7	2442	MCS0	full	24.33	30.00	PASS
8	2447	MCS0	full	24.27	30.00	PASS
9	2452	MCS0	full	23.16	30.00	PASS
			106/54	24.17	30.00	PASS
10	2457	MCS0	full	23.73	30.00	PASS
			26/8	24.24	30.00	PASS
			52/40	24.27	30.00	PASS
			106/54	24.03	30.00	PASS
11	2462	MCS0	full	20.07	30.00	PASS
			26/8	21.70	30.00	PASS
			52/40	24.91	30.00	PASS
			106/54	23.63	30.00	PASS
12	2467	MCS0	full	17.21	30.00	PASS
			26/8	23.74	30.00	PASS
			52/40	23.84	30.00	PASS
			106/54	21.48	30.00	PASS
13	2472	MCS0	full	18.95	30.00	PASS
			26/8	17.95	30.00	PASS
			52/40	18.73	30.00	PASS
			106/54	18.31	30.00	PASS

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802.11ax_HE20M Ch0						
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	14.94	30.00	PASS
			26/0	16.84	30.00	PASS
			52/37	12.80	30.00	PASS
			106/53	18.41	30.00	PASS
2	2417	MCS0	full	18.18	30.00	PASS
			26/0	19.46	30.00	PASS
			52/37	19.74	30.00	PASS
3	2422	MCS0	full	19.64	30.00	PASS
6	2437	MCS0	full	19.88	30.00	PASS
7	2442	MCS0	full	19.74	30.00	PASS
8	2447	MCS0	full	19.78	30.00	PASS
9	2452	MCS0	full	18.23	30.00	PASS
			106/54	19.93	30.00	PASS
10	2457	MCS0	full	18.44	30.00	PASS
			26/8	19.59	30.00	PASS
			52/40	19.88	30.00	PASS
			106/54	19.75	30.00	PASS
11	2462	MCS0	full	14.85	30.00	PASS
			26/8	16.85	30.00	PASS
			52/40	14.37	30.00	PASS
			106/54	11.83	30.00	PASS
12	2467	MCS0	full	12.25	30.00	PASS
			26/8	12.99	30.00	PASS
			52/40	13.89	30.00	PASS
			106/54	10.99	30.00	PASS
13	2472	MCS0	full	8.52	30.00	PASS
			26/8	6.84	30.00	PASS
			52/40	7.96	30.00	PASS
			106/54	7.35	30.00	PASS

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802.11ax_HE40M Ch0						
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	19.75	30.00	PASS
			242/61	24.07	30.00	PASS
4	2427	MCS0	full	21.90	30.00	PASS
			242/61	23.47	30.00	PASS
5	2432	MCS0	full	20.83	30.00	PASS
			242/61	23.34	30.00	PASS
6	2437	MCS0	full	24.26	30.00	PASS
7	2442	MCS0	full	21.38	30.00	PASS
			242/62	23.26	30.00	PASS
8	2447	MCS0	full	20.44	30.00	PASS
			242/62	23.33	30.00	PASS
9	2452	MCS0	full	16.54	30.00	PASS
			242/62	24.32	30.00	PASS
10	2457	MCS0	full	17.32	30.00	PASS
			242/62	24.16	30.00	PASS
11	2462	MCS0	full	16.61	30.00	PASS
			242/62	21.15	30.00	PASS
802.11ax_HE40M Ch0						
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	14.48	30.00	PASS
			242/61	13.22	30.00	PASS
4	2427	MCS0	full	16.24	30.00	PASS
			242/61	19.49	30.00	PASS
5	2432	MCS0	full	15.98	30.00	PASS
			242/61	18.72	30.00	PASS
6	2437	MCS0	full	19.96	30.00	PASS
7	2442	MCS0	full	15.47	30.00	PASS
			242/62	18.72	30.00	PASS
8	2447	MCS0	full	14.49	30.00	PASS
			242/62	18.47	30.00	PASS
9	2452	MCS0	full	10.86	30.00	PASS
			242/62	15.48	30.00	PASS
10	2457	MCS0	full	9.91	30.00	PASS
			242/62	12.74	30.00	PASS
11	2462	MCS0	full	6.47	30.00	PASS
			242/62	7.72	30.00	PASS

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Mode: Chain 1

802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	22.37	30.00	PASS
6	2437	1	23.31	30.00	PASS
7	2442	1	22.72	30.00	PASS
11	2462	1	22.68	30.00	PASS
12	2467	1	19.70	30.00	PASS
13	2472	1	18.78	30.00	PASS
802.11b Ch1					
CH	Freq. (MHz)	Data Rate	Avg. Output	Limit (dBm)	RESULT
			Power (dBm)		
1	2412	1	19.94	30.00	PASS
6	2437	1	19.99	30.00	PASS
7	2442	1	19.97	30.00	PASS
11	2462	1	19.87	30.00	PASS
12	2467	1	16.49	30.00	PASS
13	2472	1	14.50	30.00	PASS

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802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	22.55	30.00	PASS
6	2437	6	24.41	30.00	PASS
7	2442	6	24.45	30.00	PASS
9	2452	6	24.47	30.00	PASS
10	2457	6	23.92	30.00	PASS
11	2462	6	21.02	30.00	PASS
12	2467	6	18.86	30.00	PASS
13	2472	6	19.44	30.00	PASS
802.11g Ch1					
CH	Freq. (MHz)	Data Rate	Avg. Output	Limit (dBm)	RESULT
			Power (dBm)		
1	2412	6	17.48	30.00	PASS
2	2417	6	19.87	30.00	PASS
6	2437	6	19.99	30.00	PASS
7	2442	6	19.96	30.00	PASS
9	2452	6	19.93	30.00	PASS
10	2457	6	18.77	30.00	PASS
11	2462	6	15.99	30.00	PASS
12	2467	6	13.90	30.00	PASS
13	2472	6	8.96	30.00	PASS

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802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)		RESULT
1	2412	HT0	22.62		30.00	PASS
2	2417	HT0	24.44		30.00	PASS
6	2437	HT0	24.73		30.00	PASS
7	2442	HT0	24.54		30.00	PASS
9	2452	HT0	24.58		30.00	PASS
10	2457	HT0	24.36		30.00	PASS
11	2462	HT0	18.98		30.00	PASS
12	2467	HT0	17.46		30.00	PASS
13	2472	HT0	18.29		30.00	PASS
802.11n_HT20M Ch1						
CH	Freq. (MHz)	Data Rate	Avg. Output	Limit (dBm)		RESULT
			Power (dBm)			
1	2412	HT0	17.44		30.00	PASS
2	2417	HT0	19.92		30.00	PASS
6	2437	HT0	19.94		30.00	PASS
7	2442	HT0	19.96		30.00	PASS
9	2452	HT0	19.96		30.00	PASS
10	2457	HT0	19.47		30.00	PASS
11	2462	HT0	13.96		30.00	PASS
12	2467	HT0	12.35		30.00	PASS
13	2472	HT0	7.97		30.00	PASS

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802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	22.41	30.00	PASS
4	2427	HT0	23.30	30.00	PASS
5	2432	HT0	23.11	30.00	PASS
6	2437	HT0	24.59	30.00	PASS
7	2442	HT0	20.14	30.00	PASS
8	2447	HT0	23.38	30.00	PASS
9	2452	HT0	17.95	30.00	PASS
10	2457	HT0	17.26	30.00	PASS
11	2462	HT0	18.23	30.00	PASS
802.11n_HT40M Ch1					
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	16.48	30.00	PASS
4	2427	HT0	17.94	30.00	PASS
5	2432	HT0	17.59	30.00	PASS
6	2437	HT0	19.95	30.00	PASS
7	2442	HT0	14.80	30.00	PASS
8	2447	HT0	17.45	30.00	PASS
9	2452	HT0	12.39	30.00	PASS
10	2457	HT0	9.87	30.00	PASS
11	2462	HT0	7.95	30.00	PASS

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802.11ax_HE20M Ch1						
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	full	22.22	30.00	PASS
			26/0	23.64	30.00	PASS
			52/37	23.35	30.00	PASS
			106/53	22.85	30.00	PASS
2	2417	MCS0	full	24.16	30.00	PASS
			106/53	24.02	30.00	PASS
6	2437	MCS0	full	24.42	30.00	PASS
7	2442	MCS0	full	24.56	30.00	PASS
9	2452	MCS0	full	24.51	30.00	PASS
10	2457	MCS0	full	23.24	30.00	PASS
			26/8	24.26	30.00	PASS
			52/40	24.25	30.00	PASS
			106/54	24.04	30.00	PASS
11	2462	MCS0	full	20.12	30.00	PASS
			26/8	25.11	30.00	PASS
			52/40	24.75	30.00	PASS
			106/54	25.13	30.00	PASS
12	2467	MCS0	full	18.14	30.00	PASS
			26/8	25.21	30.00	PASS
			52/40	24.70	30.00	PASS
			106/54	25.06	30.00	PASS
13	2472	MCS0	full	18.56	30.00	PASS
			26/8	20.72	30.00	PASS
			52/40	20.40	30.00	PASS
			106/54	20.05	30.00	PASS

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802.11ax_HE20M Ch1						
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output	Limit (dBm)	RESULT
				Power (dBm)		
1	2412	MCS0	full	16.97	30.00	PASS
			26/0	18.36	30.00	PASS
			52/37	18.38	30.00	PASS
			106/53	17.90	30.00	PASS
2	2417	MCS0	full	19.54	30.00	PASS
			106/53	19.68	30.00	PASS
6	2437	MCS0	full	19.73	30.00	PASS
7	2442	MCS0	full	19.73	30.00	PASS
9	2452	MCS0	full	19.82	30.00	PASS
10	2457	MCS0	full	18.20	30.00	PASS
			26/8	19.66	30.00	PASS
			52/40	19.55	30.00	PASS
			106/54	19.75	30.00	PASS
11	2462	MCS0	full	14.92	30.00	PASS
			26/8	14.88	30.00	PASS
			52/40	13.37	30.00	PASS
			106/54	15.33	30.00	PASS
12	2467	MCS0	full	12.84	30.00	PASS
			26/8	15.48	30.00	PASS
			52/40	13.47	30.00	PASS
			106/54	14.38	30.00	PASS
13	2472	MCS0	full	7.91	30.00	PASS
			26/8	7.36	30.00	PASS
			52/40	7.72	30.00	PASS
			106/54	7.04	30.00	PASS

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802.11ax_HE40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)		RESULT
3	2422	MCS0	full	22.34		30.00	PASS
			242/61	21.71		30.00	PASS
4	2427	MCS0	full	23.18		30.00	PASS
			242/61	24.23		30.00	PASS
5	2432	MCS0	full	22.55		30.00	PASS
6	2437	MCS0	full	24.42		30.00	PASS
7	2442	MCS0	full	22.89		30.00	PASS
			242/62	24.16		30.00	PASS
8	2447	MCS0	full	21.13		30.00	PASS
			242/62	23.85		30.00	PASS
9	2452	MCS0	full	19.12		30.00	PASS
			242/62	25.10		30.00	PASS
10	2457	MCS0	full	15.84		30.00	PASS
			242/62	24.60		30.00	PASS
11	2462	MCS0	full	17.82		30.00	PASS
			242/62	22.54		30.00	PASS
802.11ax_HE40M Ch1							
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output	Limit (dBm)		RESULT
				Power (dBm)			
3	2422	MCS0	full	15.99		30.00	PASS
			242/61	16.47		30.00	PASS
4	2427	MCS0	full	17.74		30.00	PASS
			242/61	19.66		30.00	PASS
5	2432	MCS0	full	17.17		30.00	PASS
6	2437	MCS0	full	19.98		30.00	PASS
7	2442	MCS0	full	16.98		30.00	PASS
			242/62	19.46		30.00	PASS
8	2447	MCS0	full	15.49		30.00	PASS
			242/62	18.97		30.00	PASS
9	2452	MCS0	full	13.42		30.00	PASS
			242/62	15.41		30.00	PASS
10	2457	MCS0	full	8.11		30.00	PASS
			242/62	14.48		30.00	PASS
11	2462	MCS0	full	7.47		30.00	PASS
			242/62	10.30		30.00	PASS

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Mode: MIMO

802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)		RESULT
			CH 1	CH 0				
1	2412	HT8	21.02	21.41	24.23	30.00		PASS
2	2417	HT8	24.09	24.45	27.28	30.00		PASS
3	2422	HT8	24.22	24.52	27.38	30.00		PASS
6	2437	HT8	24.21	24.37	27.30	30.00		PASS
7	2442	HT8	24.16	24.62	27.41	30.00		PASS
9	2452	HT8	23.43	23.58	26.52	30.00		PASS
10	2457	HT8	24.27	24.09	27.19	30.00		PASS
11	2462	HT8	17.25	17.44	20.36	30.00		PASS
12	2467	HT8	16.93	17.10	20.03	30.00		PASS
13	2472	HT8	19.90	19.35	22.64	30.00		PASS
802.11n_HT20M MIMO								
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)		RESULT
			CH 1	CH 0				
1	2412	HT8	15.83	15.98	18.93	30.00		PASS
2	2417	HT8	19.75	20.12	22.97	30.00		PASS
3	2422	HT8	19.78	20.12	22.98	30.00		PASS
6	2437	HT8	19.85	20.01	22.96	30.00		PASS
7	2442	HT8	19.68	20.19	22.97	30.00		PASS
9	2452	HT8	18.35	18.47	21.44	30.00		PASS
10	2457	HT8	19.23	19.38	22.33	30.00		PASS
11	2462	HT8	12.13	12.32	15.25	30.00		PASS
12	2467	HT8	11.72	11.96	14.87	30.00		PASS
13	2472	HT8	9.35	9.16	12.28	30.00		PASS

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802.11n_HT40M MIMO							
CH	Freq. (MHz)	Data Rate	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
			CH 1	CH 0			
3	2422	HT8	19.65	19.89	22.78	30.00	PASS
4	2427	HT8	22.57	23.08	25.84	30.00	PASS
5	2432	HT8	21.47	21.88	24.69	30.00	PASS
6	2437	HT8	24.31	24.44	27.39	30.00	PASS
7	2442	HT8	20.12	20.87	23.52	30.00	PASS
8	2447	HT8	19.58	19.87	22.74	30.00	PASS
9	2452	HT8	16.48	16.94	19.73	30.00	PASS
10	2457	HT8	18.21	18.54	21.39	30.00	PASS
11	2462	HT8	17.90	18.42	21.18	30.00	PASS
802.11n_HT40M MIMO							
CH	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
			CH 1	CH 0			
3	2422	HT8	13.85	14.06	16.99	30.00	PASS
4	2427	HT8	16.97	17.40	20.22	30.00	PASS
5	2432	HT8	15.68	16.11	18.93	30.00	PASS
6	2437	HT8	19.85	19.97	22.94	30.00	PASS
7	2442	HT8	14.68	15.13	17.94	30.00	PASS
8	2447	HT8	13.37	14.02	16.74	30.00	PASS
9	2452	HT8	10.88	11.30	14.13	30.00	PASS
10	2457	HT8	10.72	11.18	13.99	30.00	PASS
11	2462	HT8	7.62	8.17	10.94	30.00	PASS

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802.11ax_HE20M MIMO								
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 1	CH 0			
1	2412	MCS0	full	20.43	20.71	23.58	30.00	PASS
			26/0	21.22	21.45	24.35	30.00	PASS
			52/37	22.51	22.63	25.58	30.00	PASS
			106/53	24.48	24.71	27.61	30.00	PASS
2	2417	MCS0	full	24.02	23.92	26.98	30.00	PASS
			52/37	22.64	22.74	25.70	30.00	PASS
			106/53	22.63	22.51	25.58	30.00	PASS
3	2422	MCS0	full	24.21	23.03	26.67	30.00	PASS
6	2437	MCS0	full	24.50	24.67	27.60	30.00	PASS
7	2442	MCS0	full	24.16	24.55	27.37	30.00	PASS
8	2447	MCS0	full	24.32	24.21	27.28	30.00	PASS
9	2452	MCS0	full	23.35	23.70	26.54	30.00	PASS
10	2457	MCS0	full	23.50	23.62	26.57	30.00	PASS
			26/8	22.53	22.72	25.64	30.00	PASS
			52/40	22.77	22.93	25.86	30.00	PASS
			106/54	22.72	22.78	25.76	30.00	PASS
11	2462	MCS0	full	19.00	19.23	22.13	30.00	PASS
			26/8	24.00	24.25	27.14	30.00	PASS
			52/40	21.57	21.74	24.67	30.00	PASS
			106/54	19.62	19.83	22.74	30.00	PASS
12	2467	MCS0	full	18.76	19.10	21.94	30.00	PASS
			26/8	21.06	21.24	24.16	30.00	PASS
			52/40	21.87	22.00	24.95	30.00	PASS
			106/54	21.03	21.23	24.14	30.00	PASS
13	2472	MCS0	full	16.95	17.60	20.30	30.00	PASS
			26/8	16.52	16.83	19.69	30.00	PASS
			52/40	9.37	10.18	12.80	30.00	PASS
			106/54	13.62	14.01	16.83	30.00	PASS

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802.11ax_HE20M MIMO								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				CH 1	CH 0			
1	2412	MCS0	full	14.75	14.99	17.90	30.00	PASS
			26/0	15.70	15.95	18.85	30.00	PASS
			52/37	12.85	13.05	15.98	30.00	PASS
			106/53	14.15	14.28	17.24	30.00	PASS
2	2417	MCS0	full	17.91	17.99	20.97	30.00	PASS
			52/37	17.69	17.72	20.73	30.00	PASS
			106/53	17.78	17.83	20.83	30.00	PASS
3	2422	MCS0	full	19.67	19.55	22.63	30.00	PASS
6	2437	MCS0	full	19.90	19.97	22.96	30.00	PASS
7	2442	MCS0	full	19.55	20.05	22.83	30.00	PASS
8	2447	MCS0	full	19.77	19.71	22.76	30.00	PASS
9	2452	MCS0	full	18.09	18.13	21.13	30.00	PASS
10	2457	MCS0	full	18.15	18.27	21.23	30.00	PASS
			26/8	17.33	17.64	20.51	30.00	PASS
			52/40	17.66	17.89	20.80	30.00	PASS
			106/54	17.86	18.01	20.96	30.00	PASS
11	2462	MCS0	full	13.71	13.87	16.81	30.00	PASS
			26/8	12.38	12.47	15.45	30.00	PASS
			52/40	10.66	10.81	13.76	30.00	PASS
			106/54	13.75	14.02	16.91	30.00	PASS
12	2467	MCS0	full	8.31	8.59	11.48	30.00	PASS
			26/8	9.85	10.05	12.98	30.00	PASS
			52/40	11.42	11.48	14.47	30.00	PASS
			106/54	9.90	10.02	12.98	30.00	PASS
13	2472	MCS0	full	6.84	7.05	9.97	30.00	PASS
			26/8	6.31	6.62	9.49	30.00	PASS
			52/40	2.41	2.38	5.42	30.00	PASS
			106/54	0.75	1.08	3.94	30.00	PASS

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802.11ax_HE40M MIMO								
CH	Freq. (MHz)	Data Rate	RU Config	Peak Output Power		Total Peak Output Power (dBm)	Limit (dBm)	RESULT
				CH 1	CH 0			
3	2422	MCS0	full	19.03	19.33	22.19	30.00	PASS
			242/61	24.33	24.53	27.44	30.00	PASS
4	2427	MCS0	full	18.55	18.78	21.68	30.00	PASS
		MCS0	242/61	22.32	22.66	25.50	30.00	PASS
5	2432	MCS0	full	21.40	21.89	24.66	30.00	PASS
		MCS0	242/61	23.42	23.40	26.42	30.00	PASS
6	2437	MCS0	full	24.38	24.49	27.45	30.00	PASS
7	2442	MCS0	full	21.88	22.42	25.17	30.00	PASS
			242/62	22.94	23.02	25.99	30.00	PASS
8	2447	MCS0	full	20.13	20.52	23.34	30.00	PASS
			242/62	20.65	21.24	23.97	30.00	PASS
9	2452	MCS0	full	16.63	16.98	19.82	30.00	PASS
			242/62	20.45	20.99	23.74	30.00	PASS
10	2457	MCS0	full	15.44	15.68	18.57	30.00	PASS
			242/62	22.06	22.69	25.40	30.00	PASS
11	2462	MCS0	full	18.53	18.65	21.60	30.00	PASS
			242/62	18.27	18.57	21.43	30.00	PASS
802.11ax_HE40M MIMO								
CH	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)		Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
				CH 1	CH 0			
3	2422	MCS0	full	12.34	12.53	15.49	30.00	PASS
			242/61	13.04	13.25	16.20	30.00	PASS
4	2427	MCS0	full	14.99	15.11	18.10	30.00	PASS
		MCS0	242/61	17.85	18.01	20.98	30.00	PASS
5	2432	MCS0	full	15.87	16.01	18.99	30.00	PASS
		MCS0	242/61	18.05	18.23	21.19	30.00	PASS
6	2437	MCS0	full	19.88	19.94	22.96	30.00	PASS
7	2442	MCS0	full	15.19	15.64	18.47	30.00	PASS
			242/62	17.91	18.00	21.01	30.00	PASS
8	2447	MCS0	full	13.39	13.81	16.66	30.00	PASS
			242/62	17.86	17.99	20.98	30.00	PASS
9	2452	MCS0	full	9.75	10.08	12.97	30.00	PASS
			242/62	12.35	12.45	15.45	30.00	PASS
10	2457	MCS0	full	7.53	7.68	10.66	30.00	PASS
			242/62	10.95	11.38	14.22	30.00	PASS
11	2462	MCS0	full	6.12	6.44	9.34	30.00	PASS
			242/62	5.07	5.52	8.35	30.00	PASS

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

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9 6DB BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

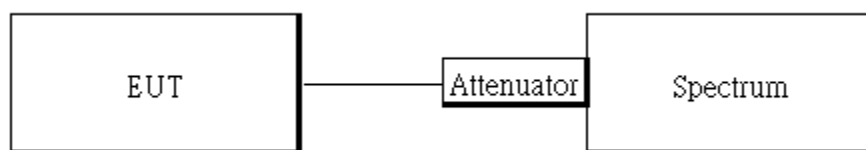
9.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	MVE2213-10	RF80	11/20/2019	11/19/2020
IPEX-4 Cable	Woken	00100A1H646027	N/A	N/A	N/A

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF256	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-10	RF80	11/19/2020	11/18/2021

9.3 Test Set-up



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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= 1.5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold for 6dB Bandwidth test.
5. Mark the peak frequency and –6dB (upper and lower) frequency
6. Repeat above procedures until all test default channel is completed

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9.5 6dB Bandwidth

Mode: Chain 0

802.11b Ch0				802.11g Ch0			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8596.00	> 500	PASS	2412	15150.00	> 500	PASS
2437	9059.00	> 500	PASS	2437	15130.00	> 500	PASS
2442	9081.00	> 500	PASS	2442	15160.00	> 500	PASS
2462	9046.00	> 500	PASS	2462	15140.00	> 500	PASS
2467	9084.00	> 500	PASS	2467	15490.00	> 500	PASS
2472	8607.00	> 500	PASS	2472	16410.00	> 500	PASS

802.11_n_HT20 Ch0				802.11_n_HT40 Ch0			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	13920.00	> 500	PASS	2422	35090.00	> 500	PASS
2437	15050.00	> 500	PASS	2437	33850.00	> 500	PASS
2442	12940.00	> 500	PASS	2442	31410.00	> 500	PASS
2462	16190.00	> 500	PASS	2452	32590.00	> 500	PASS
2467	15070.00	> 500	PASS	2457	35070.00	> 500	PASS
2472	17630.00	> 500	PASS	2462	36390.00	> 500	PASS

802.11_ax_HE20 Ch0									
Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result					
2412	full	16530.00	> 500	PASS					
	26/0	2066.00	> 500	PASS					
2437	full	18020.00	> 500	PASS					
	26/0	2085.00	> 500	PASS					
2442	full	16990.00	> 500	PASS					
	26/0	2078.00	> 500	PASS					
2462	full	16490.00	> 500	PASS					
	26/0	2089.00	> 500	PASS					
2467	full	17530.00	> 500	PASS					
	26/0	2076.00	> 500	PASS					
2472	full	18700.00	> 500	PASS					
	26/0	2051.00	> 500	PASS					

802.11_ax_HE40 Ch0				
Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	35780.00	> 500	PASS
2437	full	35000.00	> 500	PASS
2442	full	35030.00	> 500	PASS
2452	full	34890.00	> 500	PASS
2457	full	34970.00	> 500	PASS
2462	full	37760.00	> 500	PASS

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Mode: Chain 1

802.11b Ch1				802.11g Ch1			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	9055.00	> 500	PASS	2412	15150.00	> 500	PASS
2437	9083.00	> 500	PASS	2437	15150.00	> 500	PASS
2442	9052.00	> 500	PASS	2442	15150.00	> 500	PASS
2462	9079.00	> 500	PASS	2462	15300.00	> 500	PASS
2467	9083.00	> 500	PASS	2467	15320.00	> 500	PASS
2472	9087.00	> 500	PASS	2472	16390.00	> 500	PASS

802.11_n_HT20 Ch1				802.11_n_HT40 Ch1			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15080.00	> 500	PASS	2422	35260.00	> 500	PASS
2437	13920.00	> 500	PASS	2437	31260.00	> 500	PASS
2442	13900.00	> 500	PASS	2442	31300.00	> 500	PASS
2462	15910.00	> 500	PASS	2452	32510.00	> 500	PASS
2467	16300.00	> 500	PASS	2457	32900.00	> 500	PASS
2472	17620.00	> 500	PASS	2462	36390.00	> 500	PASS

802.11_ax_HE20 Ch1

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	17030.00	> 500	PASS
	26/0	2086.00	> 500	PASS
2437	full	17360.00	> 500	PASS
	26/0	2091.00	> 500	PASS
2442	full	16630.00	> 500	PASS
	26/0	2029.00	> 500	PASS
2462	full	16110.00	> 500	PASS
	26/0	2081.00	> 500	PASS
2467	full	18040.00	> 500	PASS
	26/0	2077.00	> 500	PASS
2472	full	18530.00	> 500	PASS
	26/0	2049.00	> 500	PASS

802.11_ax_HE40 Ch1

Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	36130.00	> 500	PASS
2437	full	35820.00	> 500	PASS
2442	full	35290.00	> 500	PASS
2452	full	35130.00	> 500	PASS
2457	full	36070.00	> 500	PASS
2462	full	37750.00	> 500	PASS

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Mode: MIMO

802.11_n_HT20 Ch0				802.11_n_HT20 Ch1			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	15080.00	> 500	PASS	2412	16300.00	> 500	PASS
2437	15150.00	> 500	PASS	2437	15730.00	> 500	PASS
2442	15050.00	> 500	PASS	2442	16900.00	> 500	PASS
2462	14800.00	> 500	PASS	2462	15420.00	> 500	PASS
2467	15140.00	> 500	PASS	2467	16340.00	> 500	PASS
2472	17630.00	> 500	PASS	2472	17650.00	> 500	PASS

802.11_n_HT40 Ch0				802.11_n_HT40 Ch1			
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	32620.00	> 500	PASS	2422	35110.00	> 500	PASS
2437	32580.00	> 500	PASS	2437	32630.00	> 500	PASS
2442	35080.00	> 500	PASS	2442	32570.00	> 500	PASS
2452	33880.00	> 500	PASS	2452	31400.00	> 500	PASS
2457	33810.00	> 500	PASS	2457	35130.00	> 500	PASS
2462	36360.00	> 500	PASS	2462	36400.00	> 500	PASS

802.11_ax_HE20 Ch0					802.11_ax_HE20 Ch1				
Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2412	full	17460.00	> 500	PASS	2412	full	15150.00	> 500	PASS
	26/0	2077.00	> 500	PASS		26/0	2075.00	> 500	PASS
2437	full	17370.00	> 500	PASS	2437	full	15090.00	> 500	PASS
	26/0	2059.00	> 500	PASS		26/0	2062.00	> 500	PASS
2442	full	15820.00	> 500	PASS	2442	full	15570.00	> 500	PASS
	26/0	2081.00	> 500	PASS		26/0	2067.00	> 500	PASS
2462	full	16130.00	> 500	PASS	2462	full	15720.00	> 500	PASS
	26/0	2083.00	> 500	PASS		26/0	2079.00	> 500	PASS
2467	full	18250.00	> 500	PASS	2467	full	17290.00	> 500	PASS
	26/0	2090.00	> 500	PASS		26/0	2072.00	> 500	PASS
2472	full	18580.00	> 500	PASS	2472	full	18560.00	> 500	PASS
	26/0	2038.00	> 500	PASS		26/0	2046.00	> 500	PASS

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802.11_ax_HE40 Ch0					802.11_ax_HE40 Ch1				
Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result	Freq. (MHz)	RU Config	6dB BW (kHz)	Limit (kHz)	Result
2422	full	34240.00	> 500	PASS	2422	full	35650.00	> 500	PASS
2437	full	35070.00	> 500	PASS	2437	full	35100.00	> 500	PASS
2442	full	35140.00	> 500	PASS	2442	full	33870.00	> 500	PASS
2452	full	33910.00	> 500	PASS	2452	full	35100.00	> 500	PASS
2457	full	35570.00	> 500	PASS	2457	full	35720.00	> 500	PASS
2462	full	37510.00	> 500	PASS	2462	full	37490.00	> 500	PASS

*Refer to next page for plots

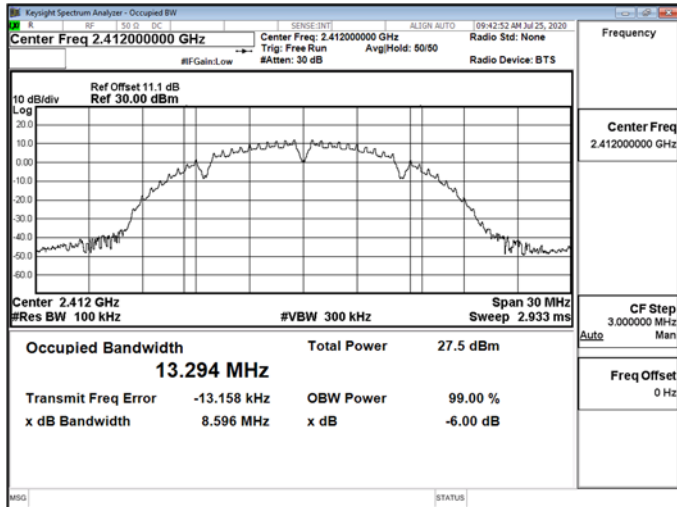
Note: For the test plots, Detector: PEAK, Trace: MAX Hold

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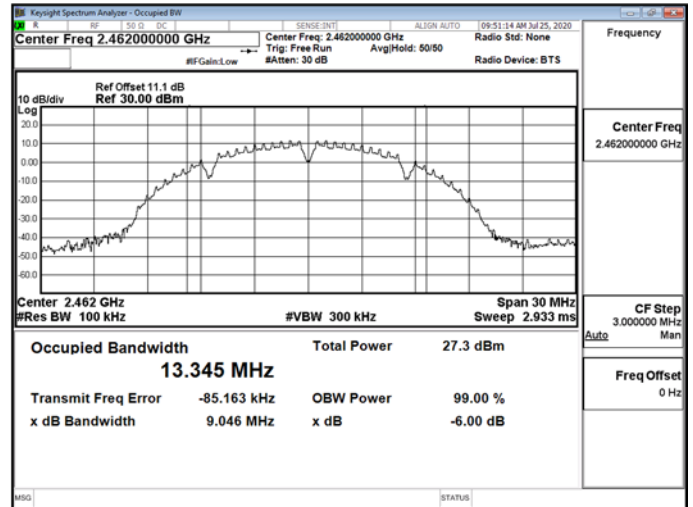
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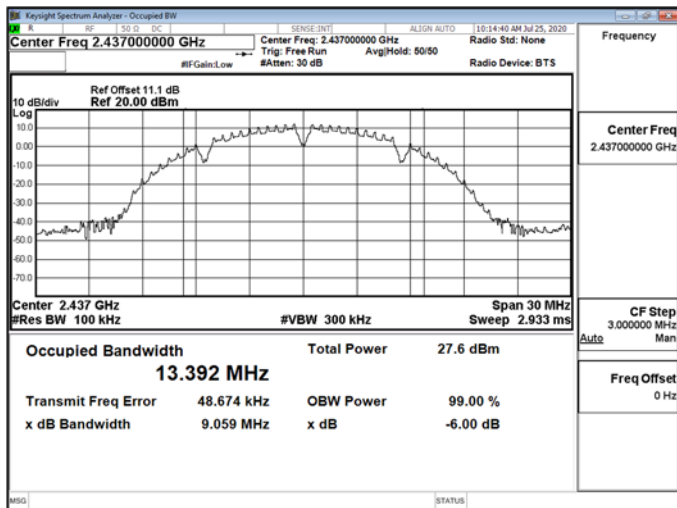
Chain 0 OBW 6dB\WLAN\802.11b_20MHz_Chain0_2412MHz



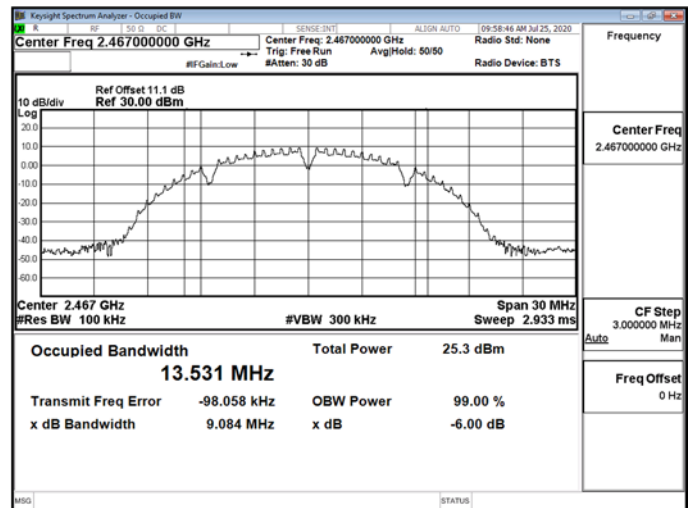
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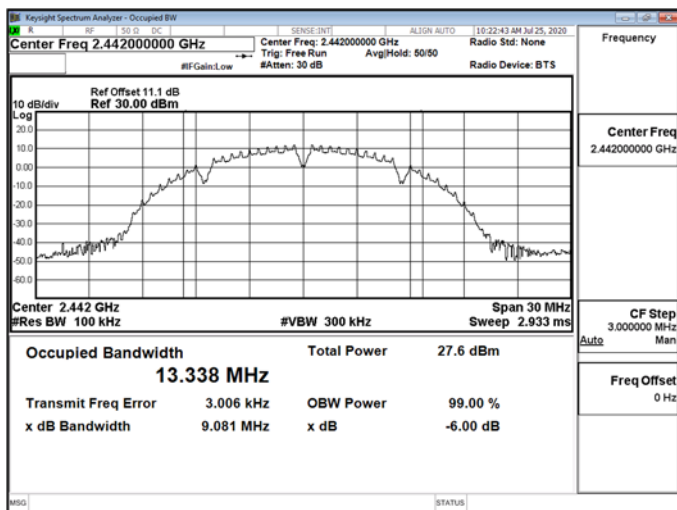
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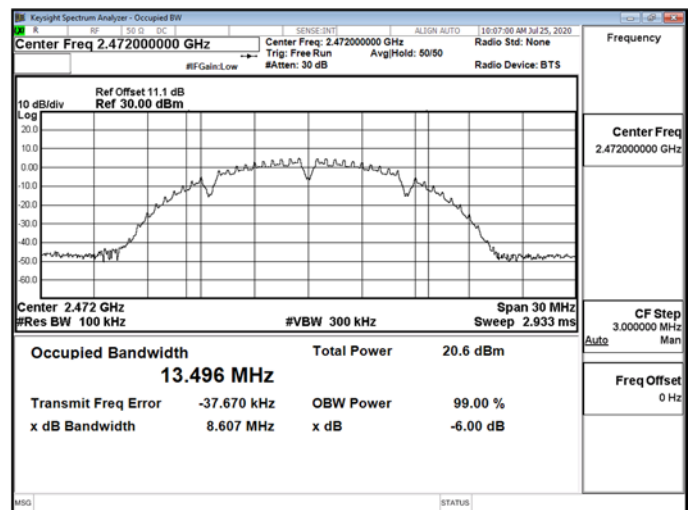
OBW 6dB\WLAN\802.11b_20MHz_Chain0_2467MHz



OBW 6dB\WLAN\802.11b_20MHz_Chain0_2442MHz



OBW 6dB\WLAN\802.11b_20MHz_Chain0_2472MHz

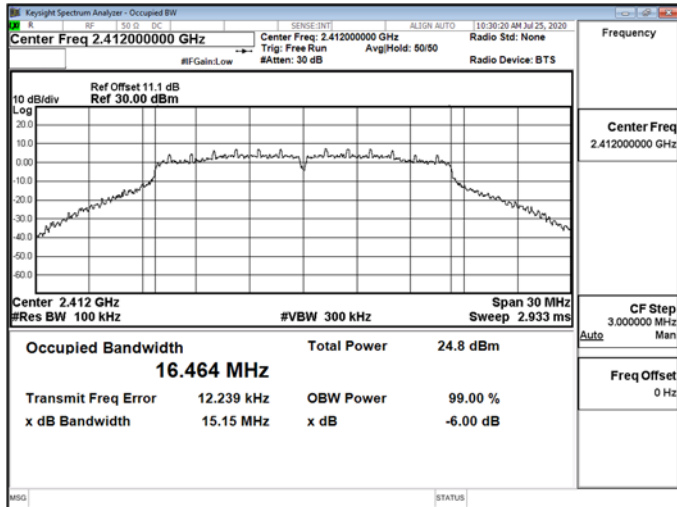


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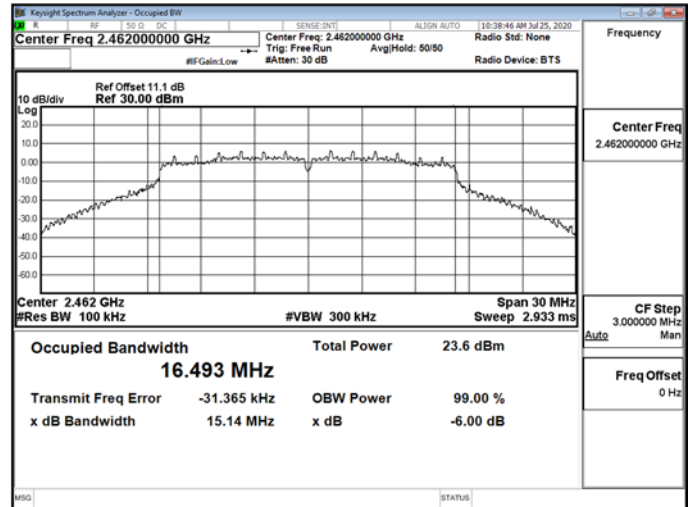
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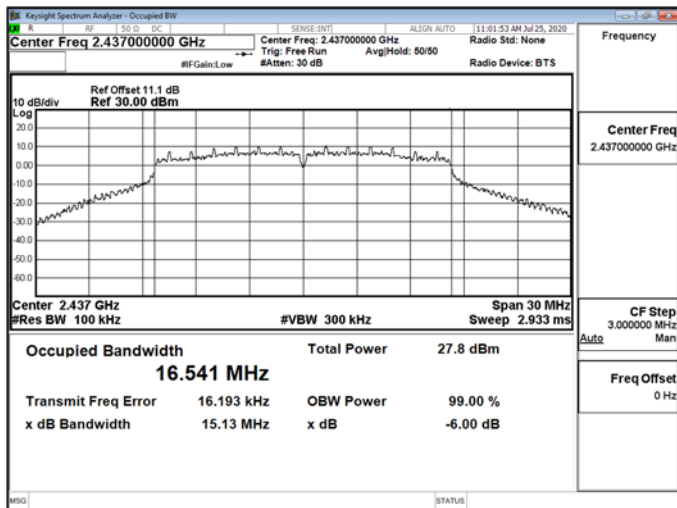
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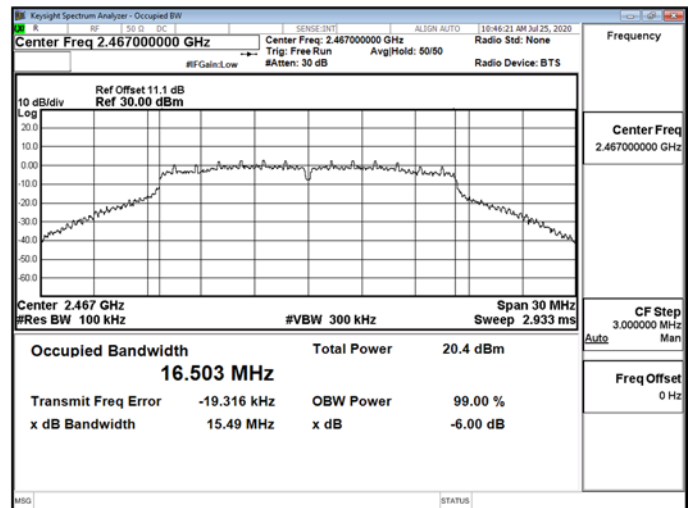
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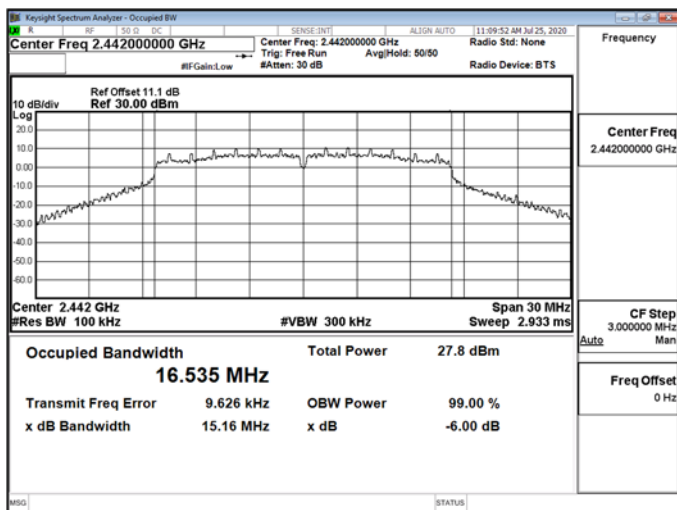
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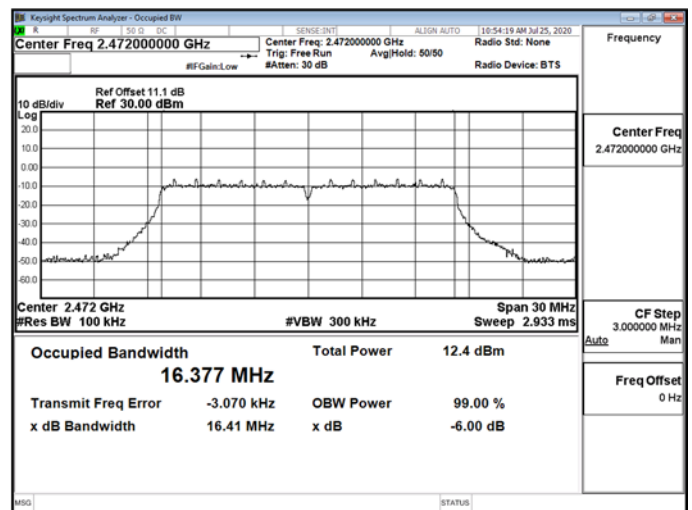
OBW 6dBIWLAN\802.11g_20MHz_Chain0_2467MHz



OBW 6dBIWLAN\802.11g_20MHz_Chain0_2442MHz



OBW 6dBIWLAN\802.11g_20MHz_Chain0_2472MHz

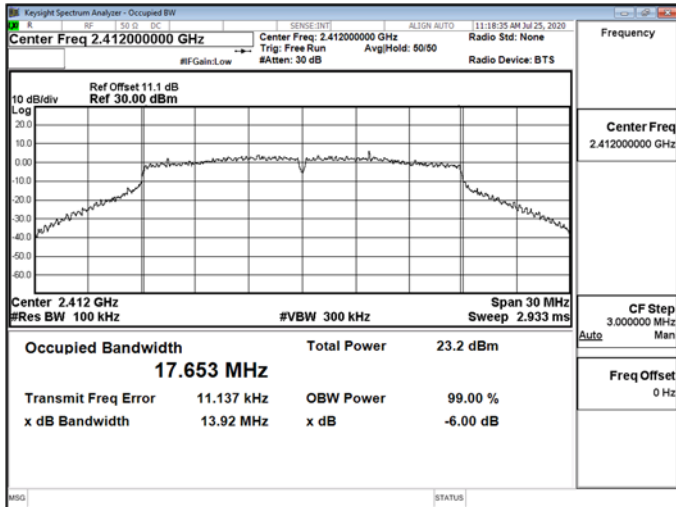


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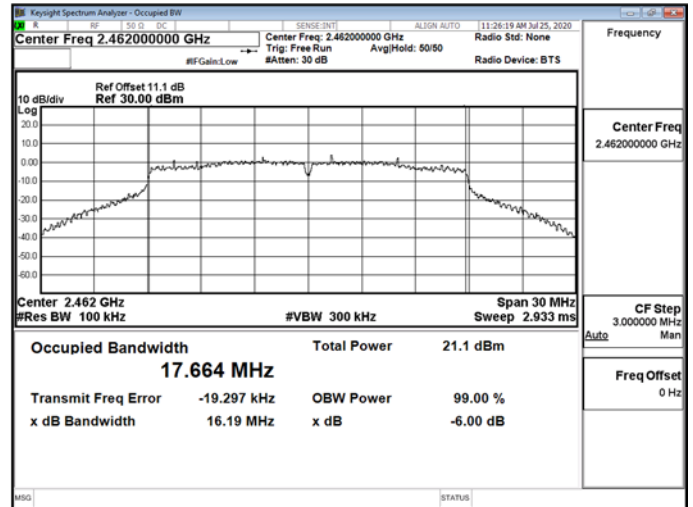
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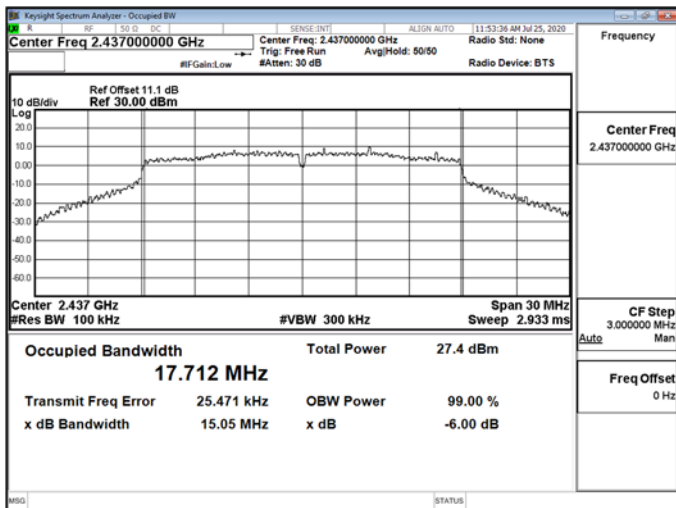
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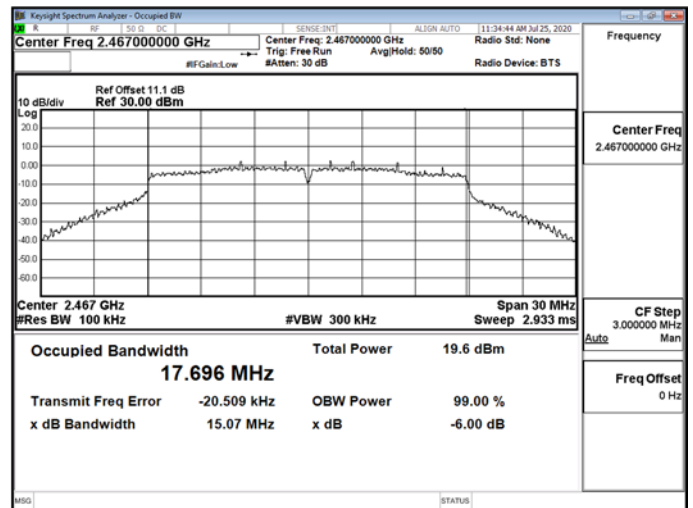
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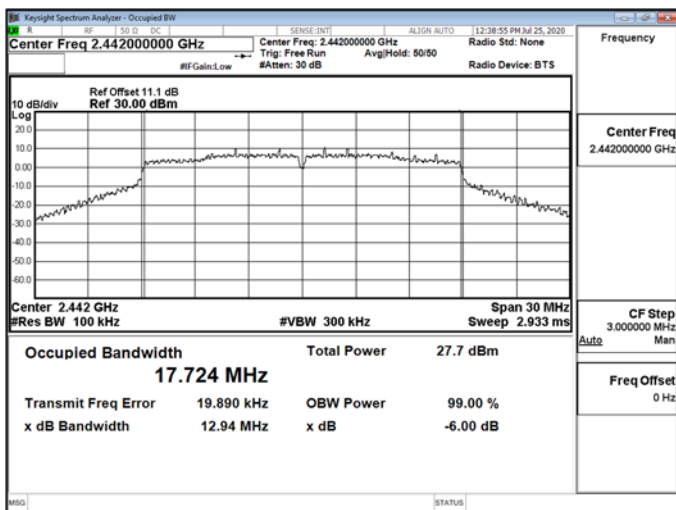
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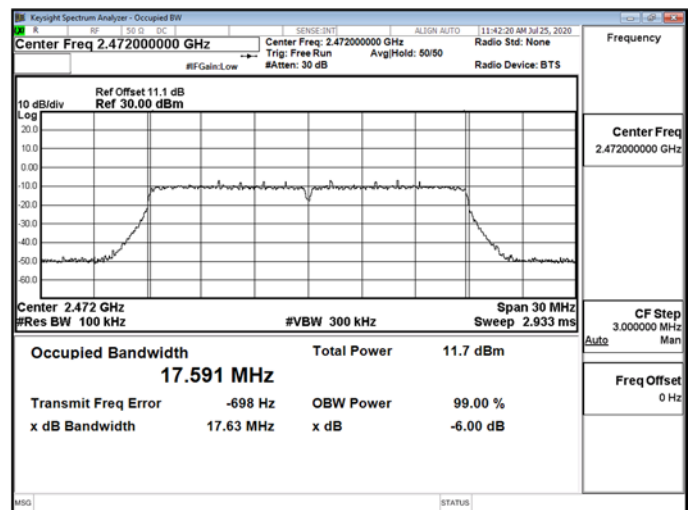
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OBW 6dBIWLAN\802.11n_20MHz_Chain0_2442MHz



OBW 6dBIWLAN\802.11n_20MHz_Chain0_2472MHz

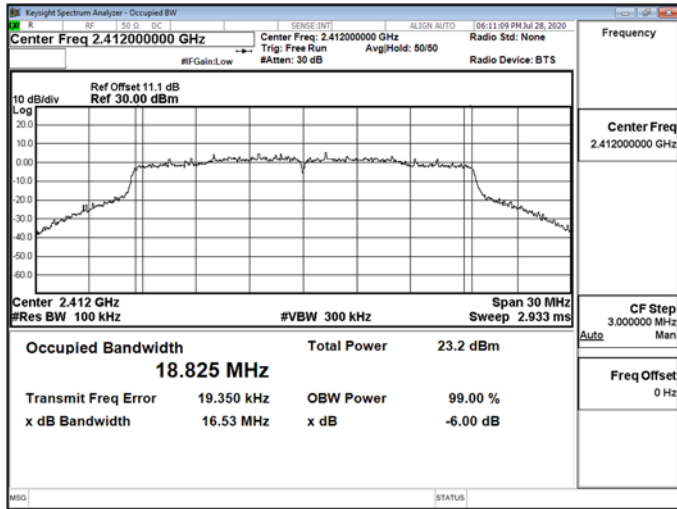


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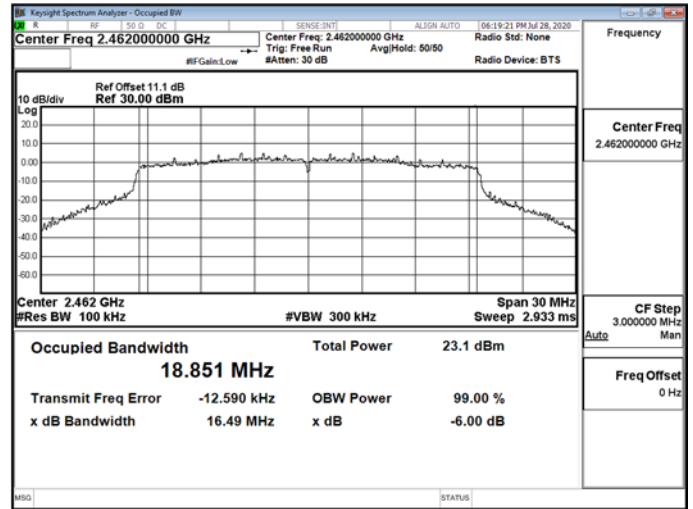
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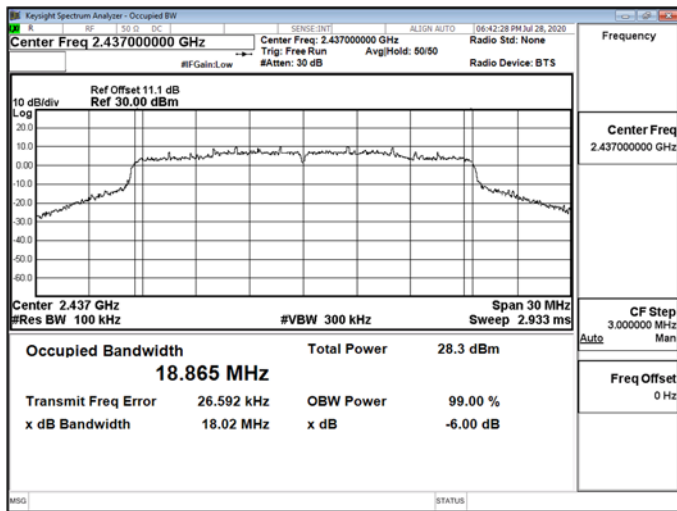
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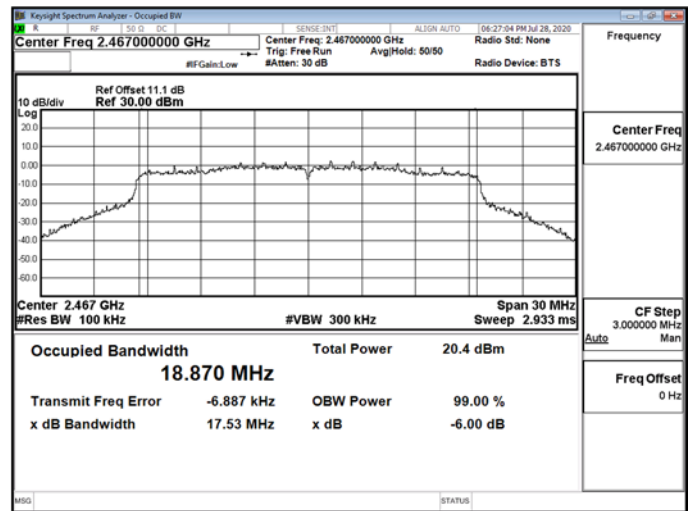
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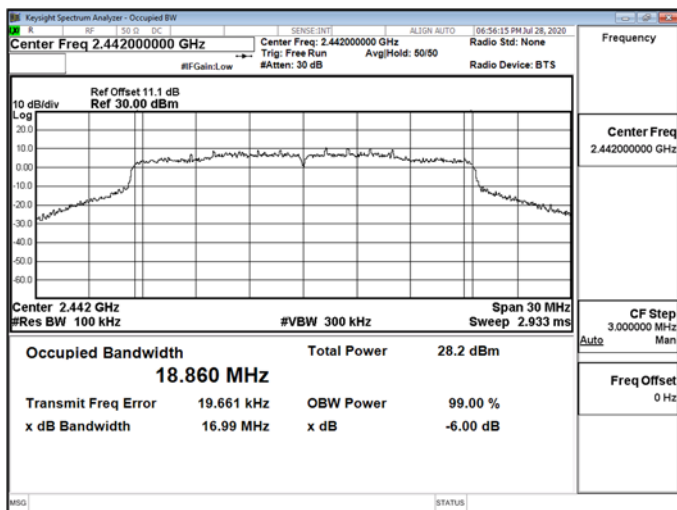
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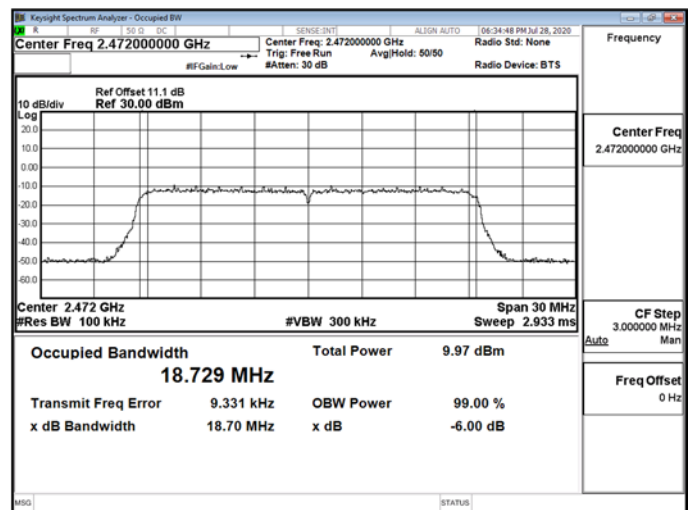
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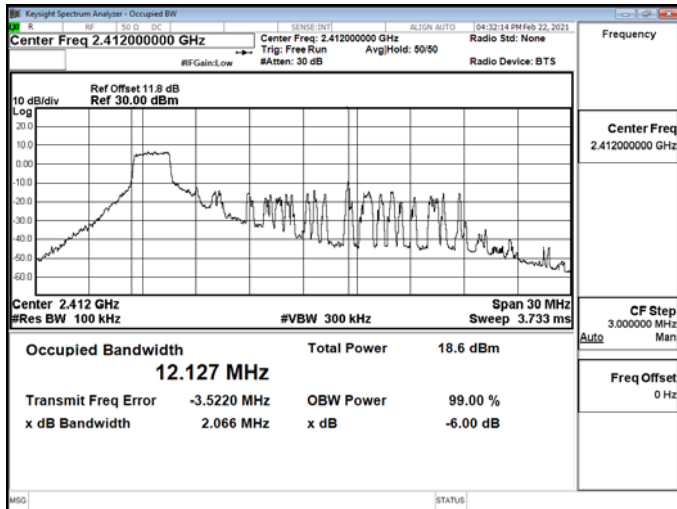


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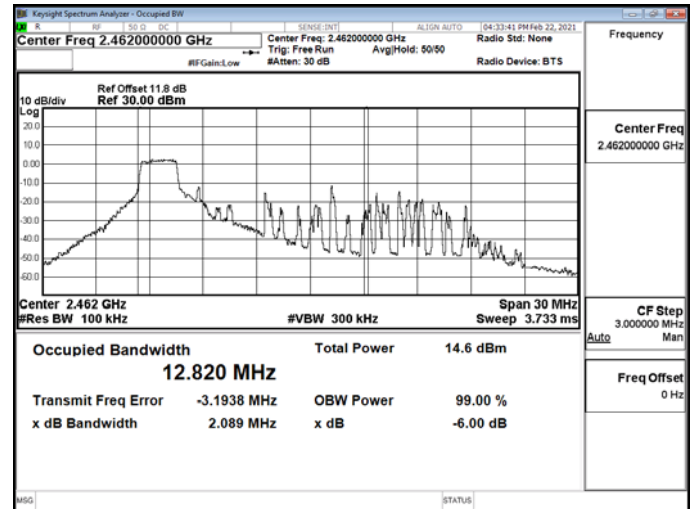
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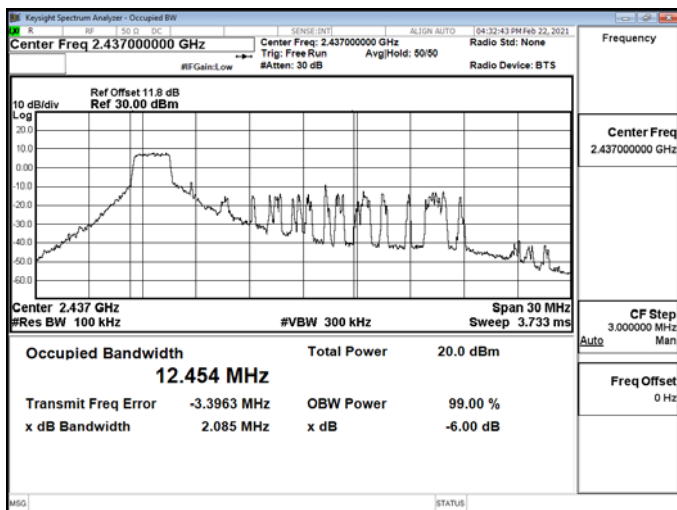
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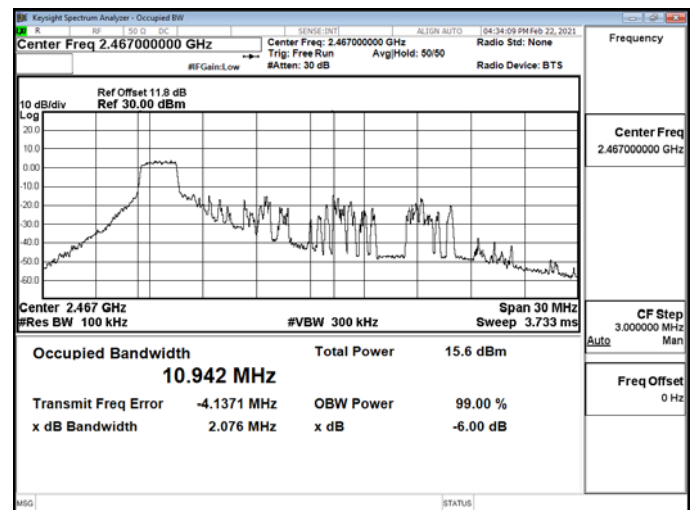
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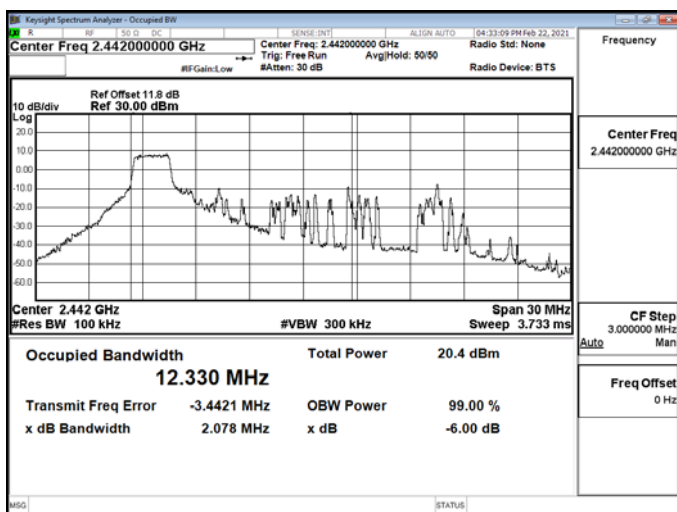
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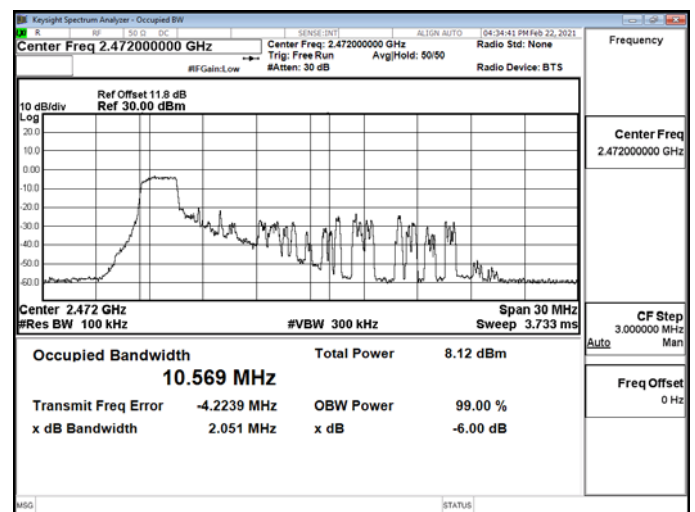
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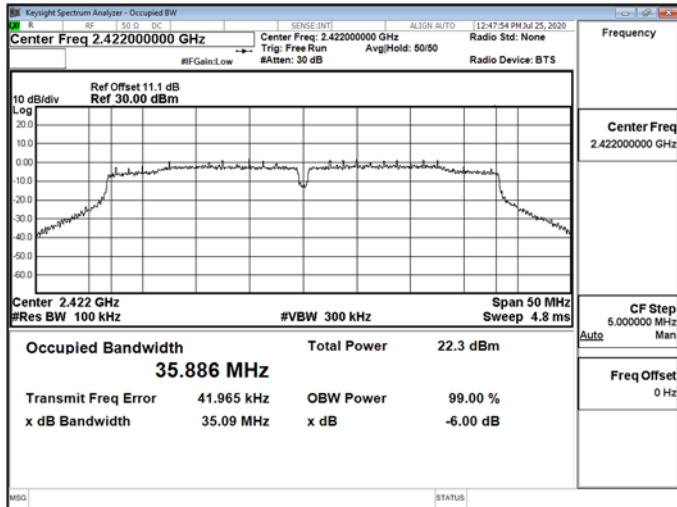


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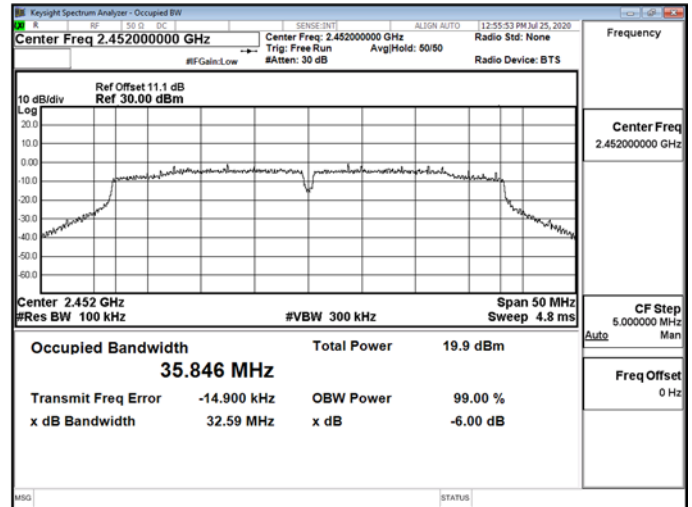
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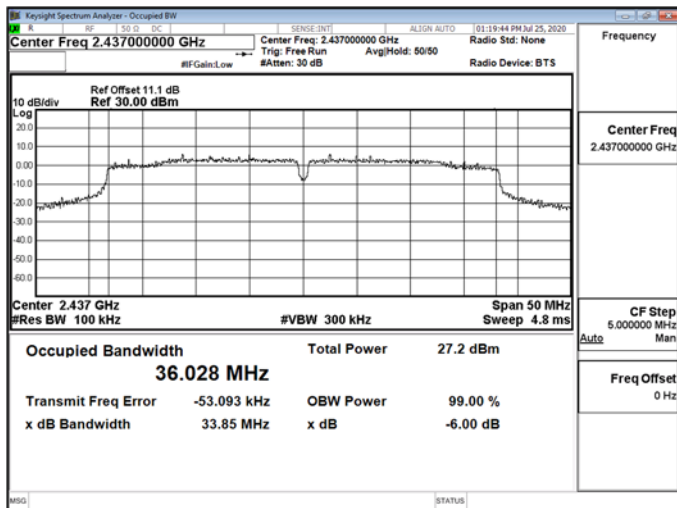
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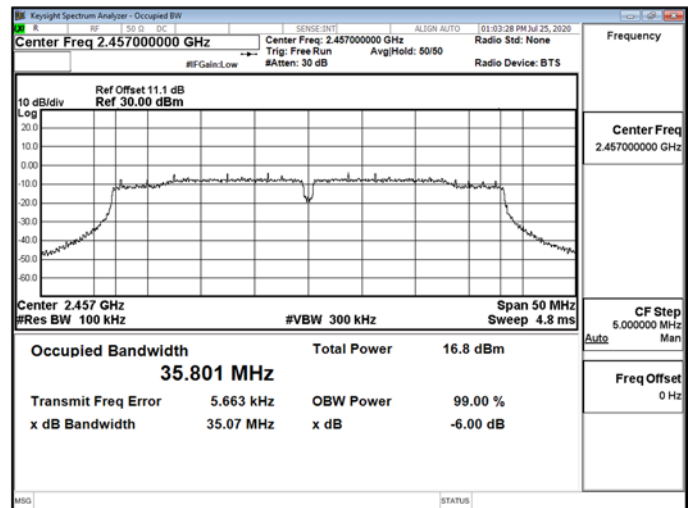
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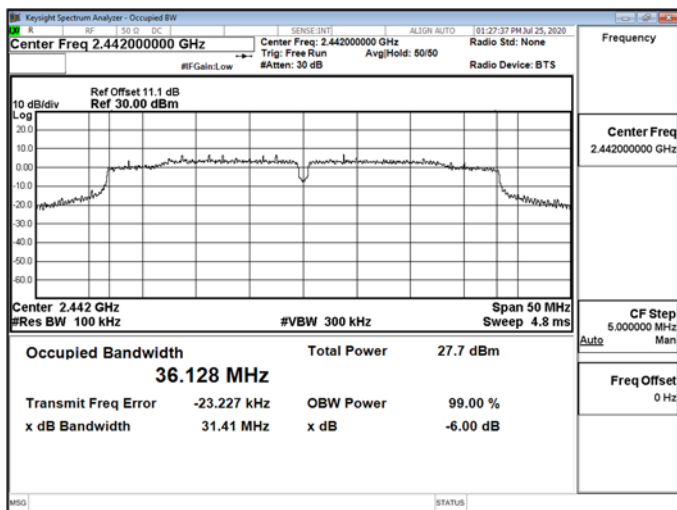
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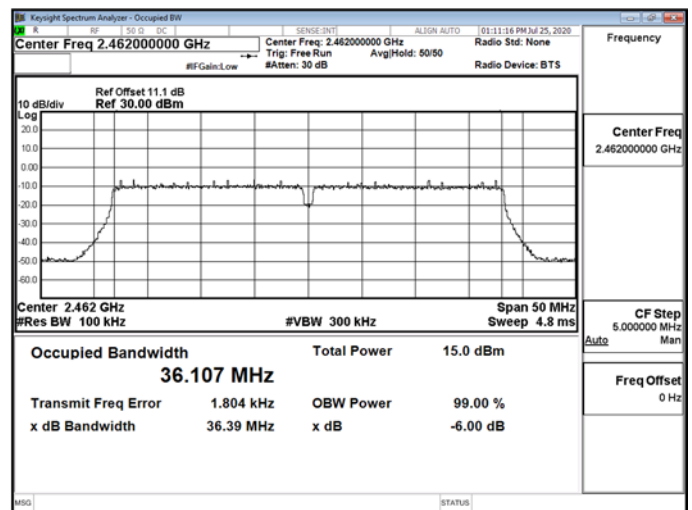
OBW 6dBIWLAN\802.11n_40MHz_Chain0_2457MHz



OBW 6dBIWLAN\802.11n_40MHz_Chain0_2442MHz



OBW 6dBIWLAN\802.11n_40MHz_Chain0_2462MHz

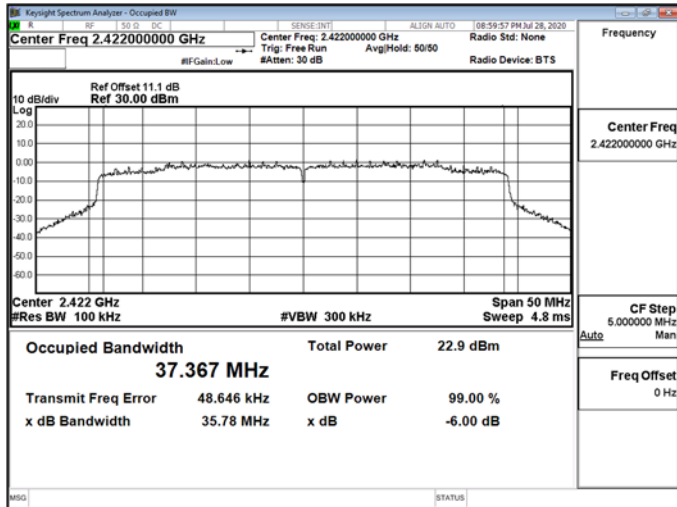


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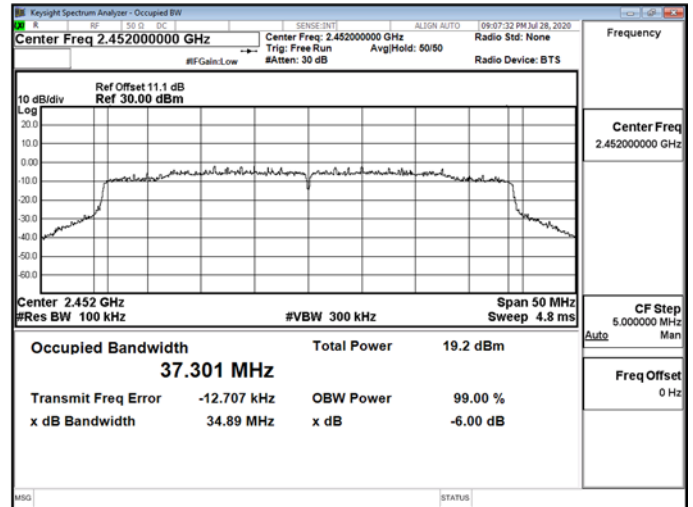
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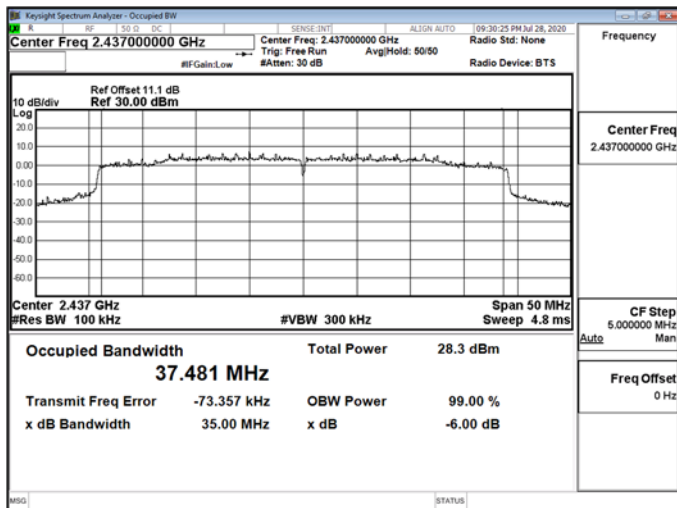
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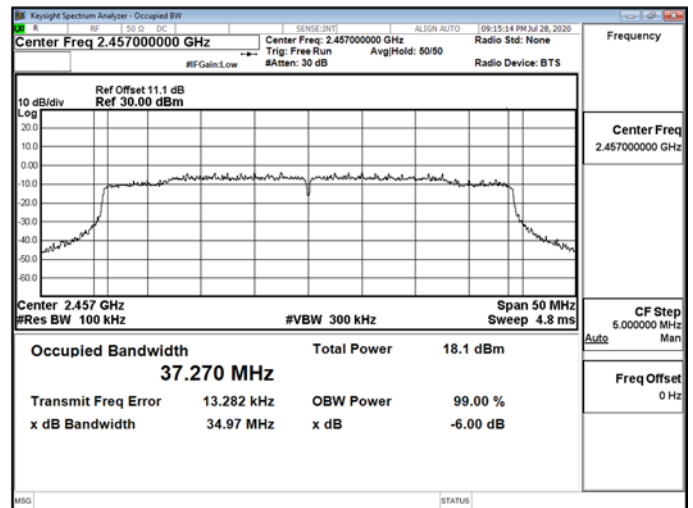
OBW 6dBWLAN802.11ax_40MHz_Chain0_2452MHz



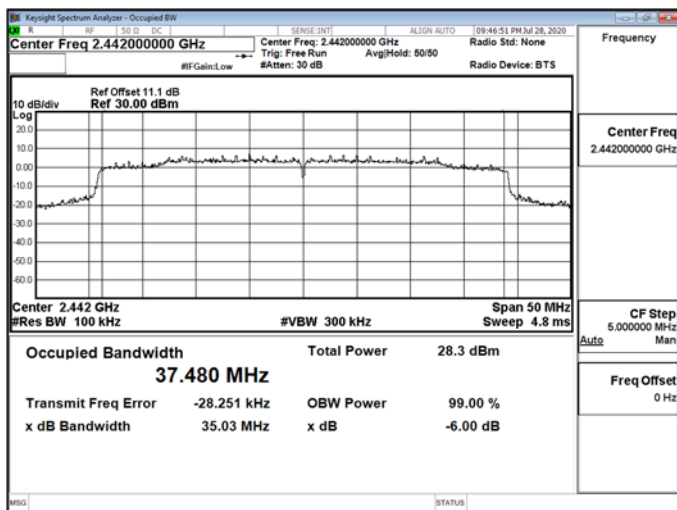
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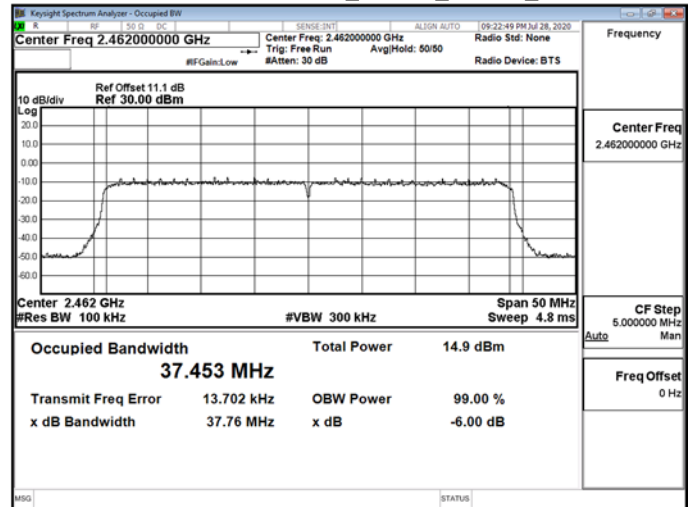
OBW 6dBWLAN802.11ax_40MHz_Chain0_2457MHz



OBW 6dBWLAN802.11ax_40MHz_Chain0_2442MHz



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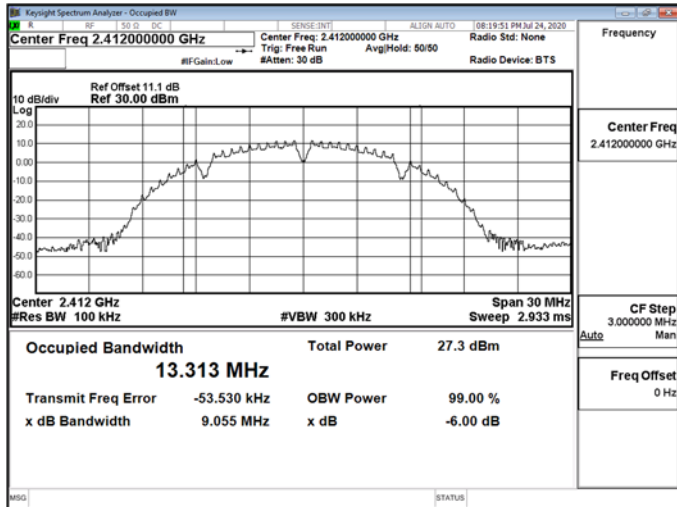


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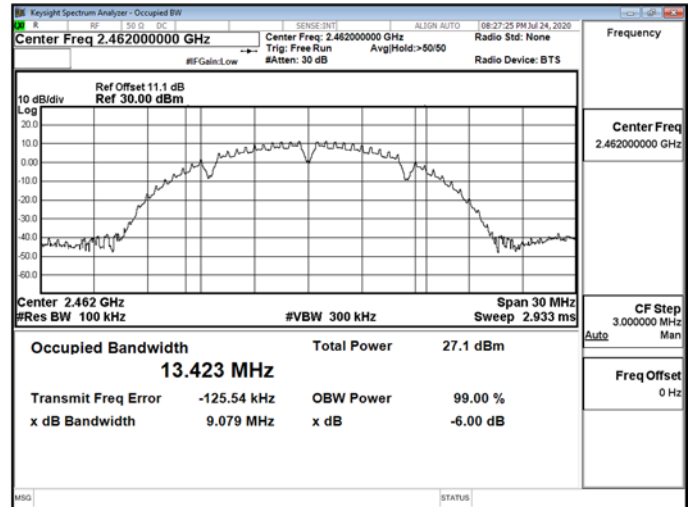
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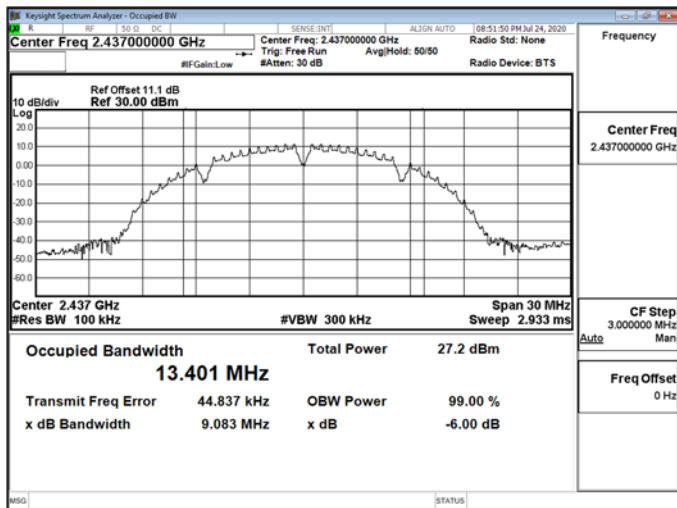
Chain 1 OBW 6dBIWLAN\802.11b_20MHz_Chain1_2412MHz



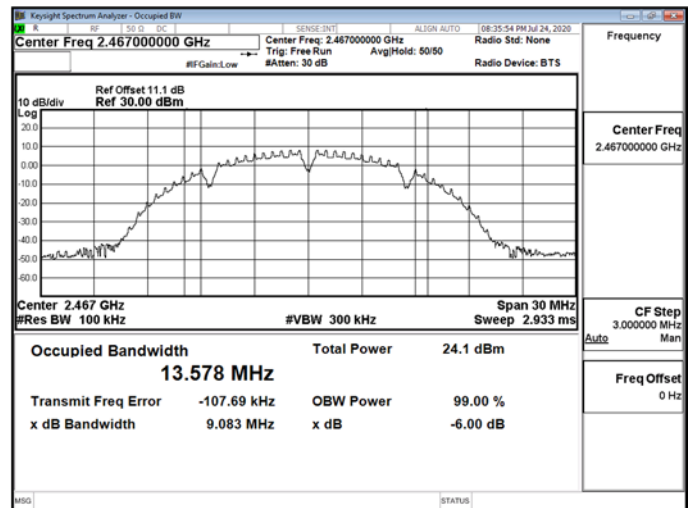
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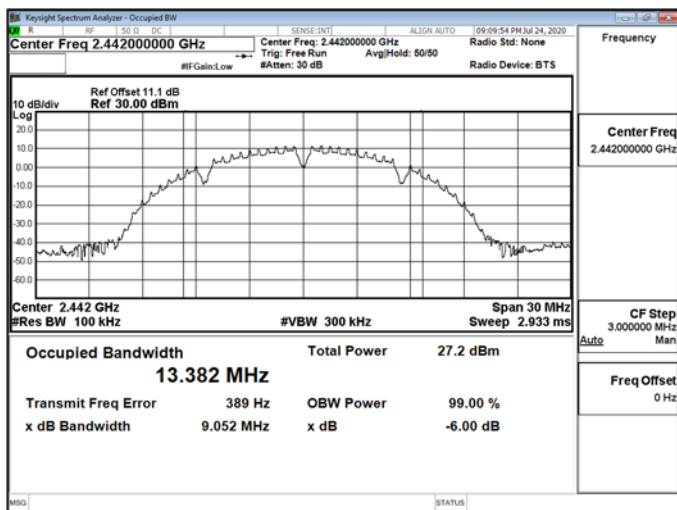
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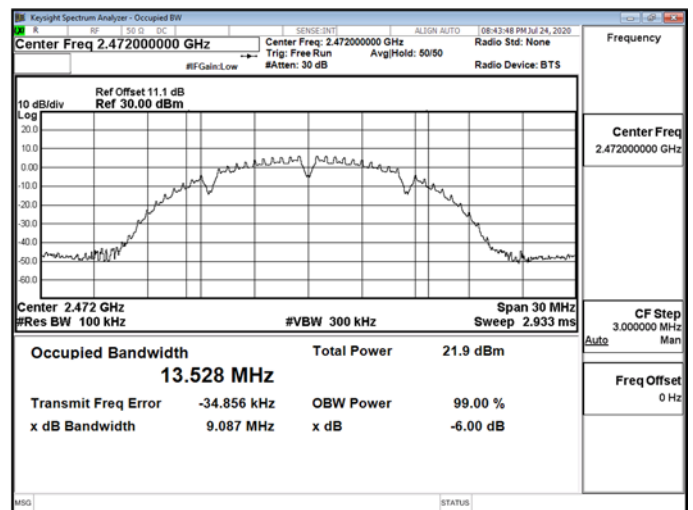
OBW 6dBIWLAN\802.11b_20MHz_Chain1_2467MHz



OBW 6dBIWLAN\802.11b_20MHz_Chain1_2442MHz



OBW 6dBIWLAN\802.11b_20MHz_Chain1_2472MHz

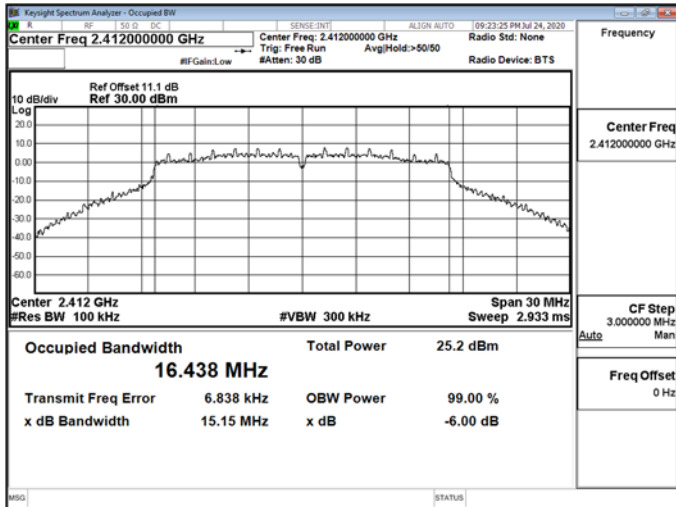


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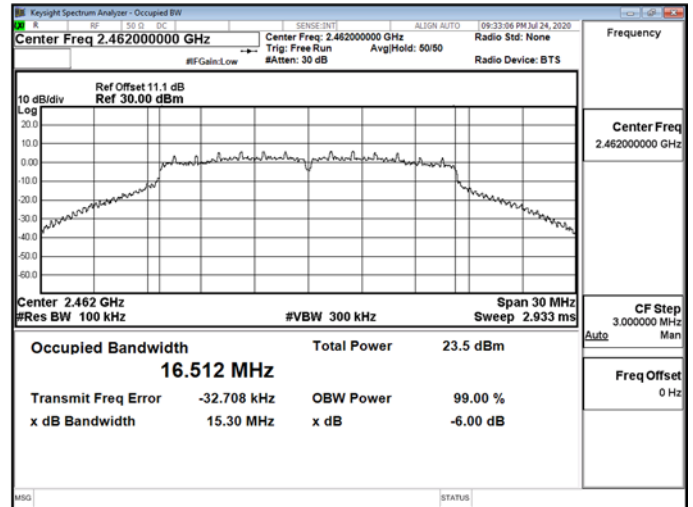
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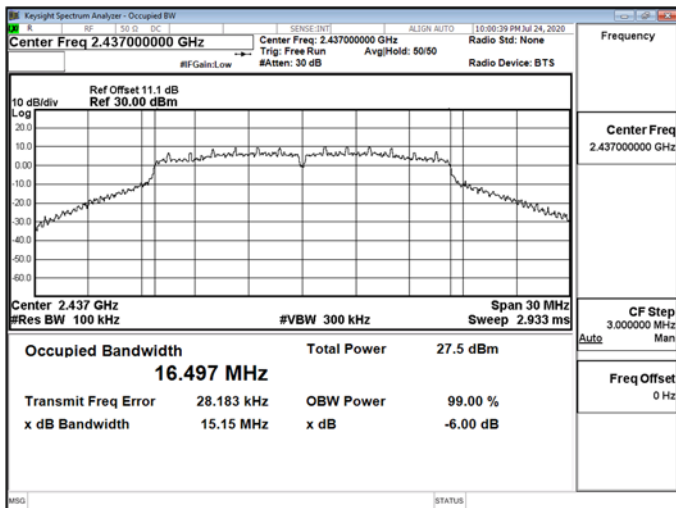
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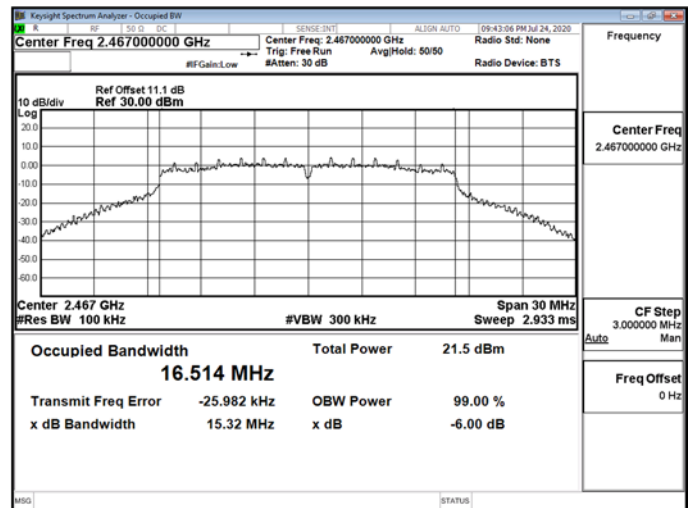
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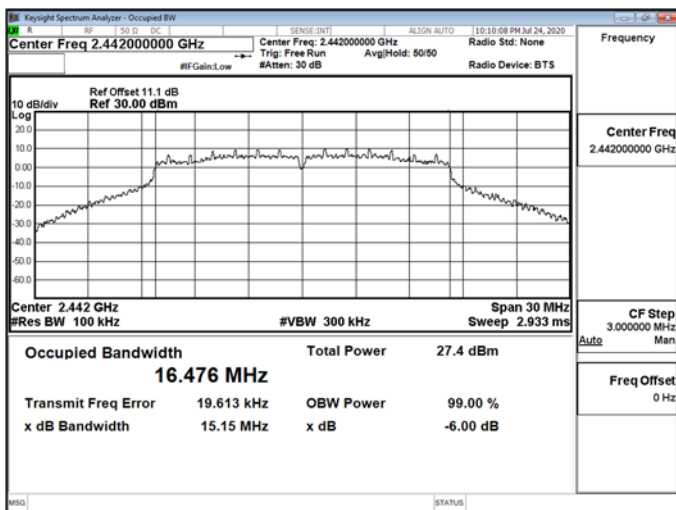
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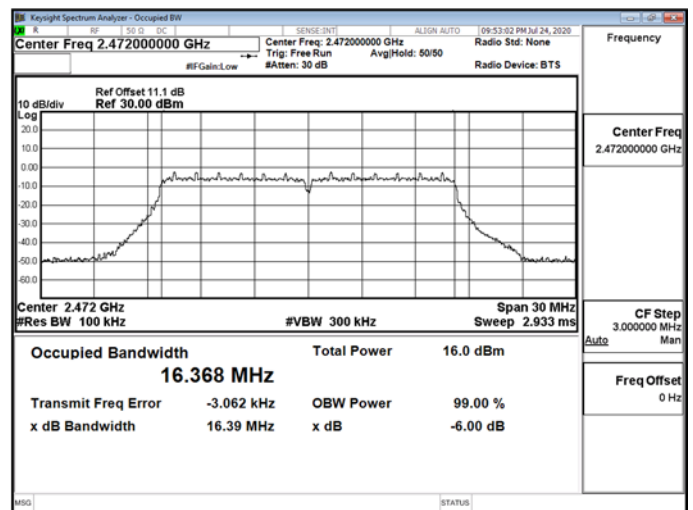
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OBW 6dBIWLAN\802.11g_20MHz_Chain1_2442MHz



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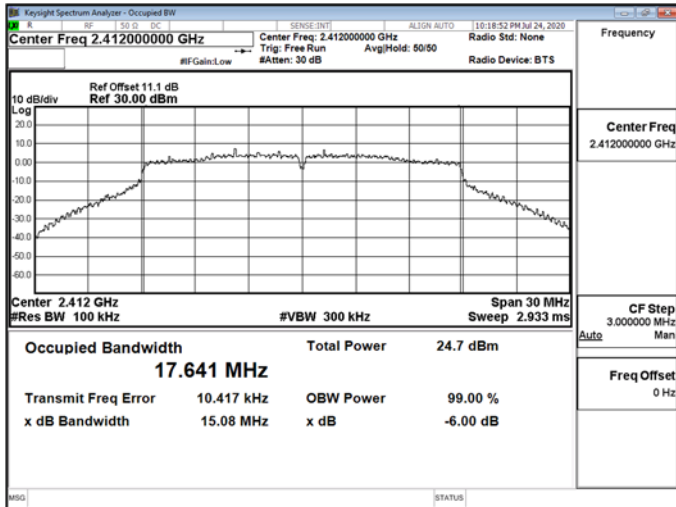


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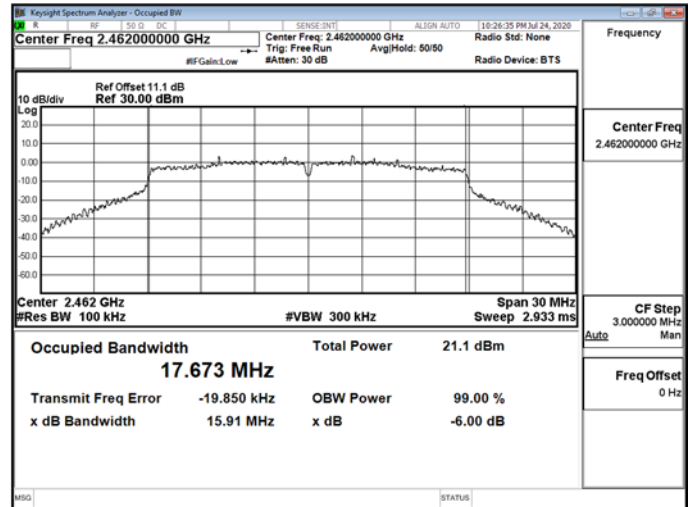
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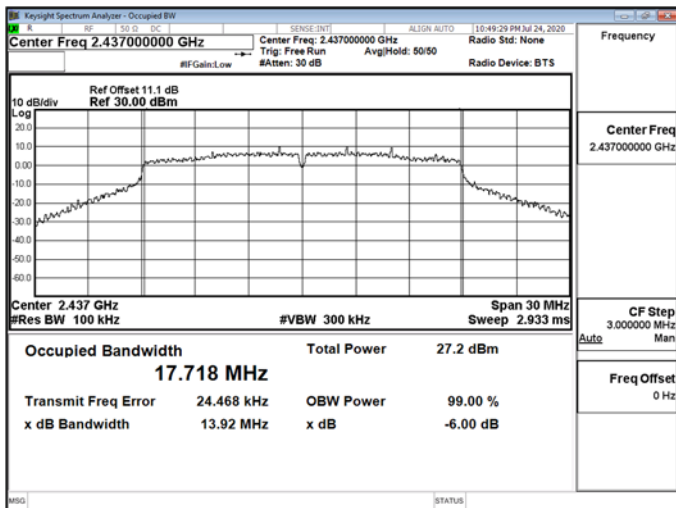
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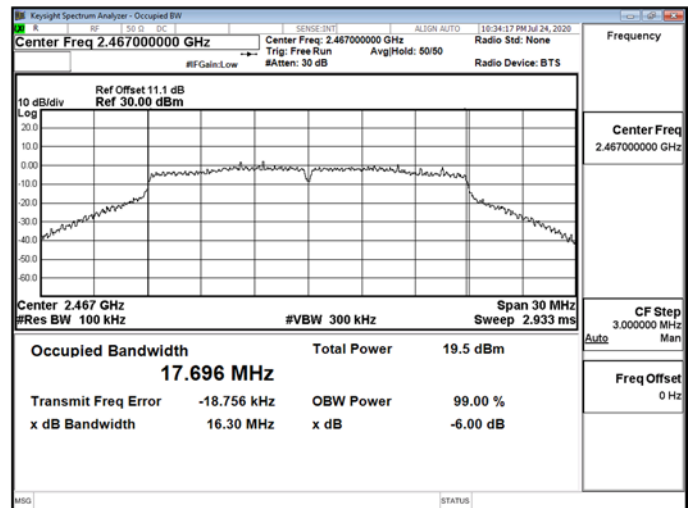
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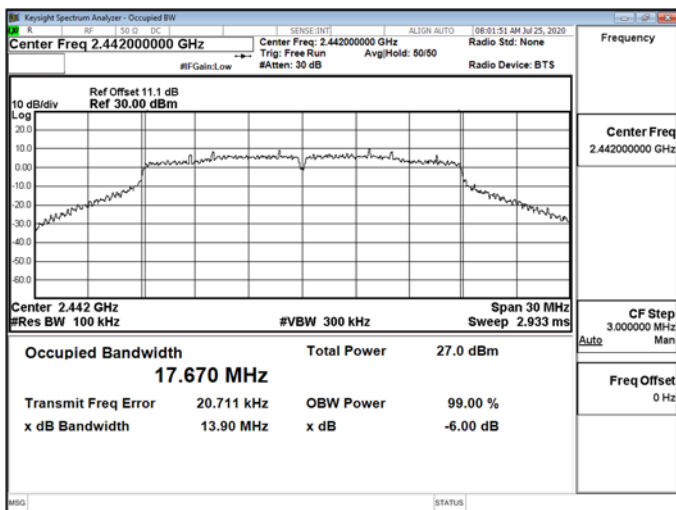
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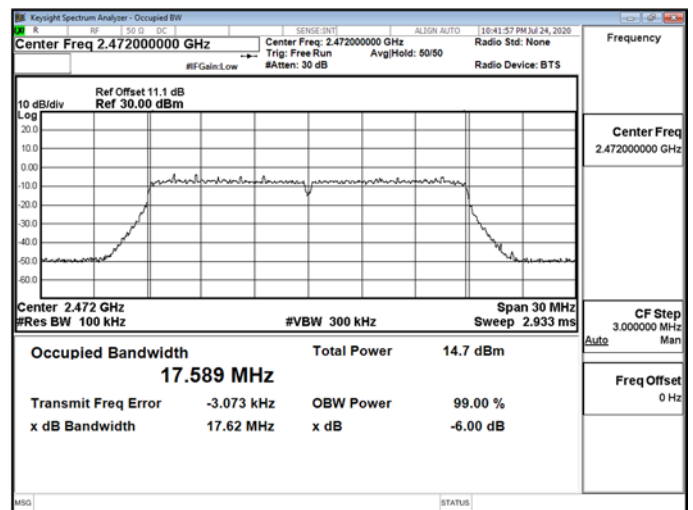
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OBW 6dBIWLAN\802.11n_20MHz_Chain1_2442MHz



OBW 6dBIWLAN\802.11n_20MHz_Chain1_2472MHz



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