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# 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 Nultiple 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.

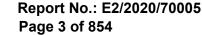
### 2 · Disclaimer

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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# **GENERAL INFORMATION**

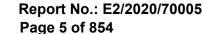
# 1.1 Product description

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 Frequency Chan-Modulation Rated Power (dBm) 802.11 Range nels Technology 23.31 DSSS, 2412-2472 13 24.47 g n HT20 OFDM/ HE: 27.61 (MIMO) ax HE20 **OFDMA** n HT40 9 2422-2462 HE: 27.45 (MIMO) ax HE40 CCK, DQPSK, DBPSK for DSSS Modulation type: 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA in 802.11ax only 802.11 b: 1/2/5.5/11 Mbps 802.11 q: 6/9/12/18/24/36/48/54 Mbps 802.11 n 20MHz: 6.5 - 144.4Mbps **Transistion Rate:** 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 Config 2	Chain 0	2412-2472	-0.1	
		Chain 1	2412-2472	0.8	
		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	2412~2412	3.6	2.13

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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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# 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 a 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 a 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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# 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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# **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
CHANNEL	(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 gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain	Single Transmission Spatial	Multiple Transmission Spatial
⊠ 802.11 b	□ Ch0 □ Ch1 □ Ch2 □ Ch3	⊠ 1TX	□ 2TX
⊠ 802.11 g	□ Ch0 □ Ch1 □ Ch2 □ Ch3	⊠ 1TX	□ 2TX
⊠ 802.11 n	□ Ch0 □ Ch1 □ Ch2 □ Ch3	☐ SISO	⊠ MIMO
⊠ 802.11 ax	□ Ch0 □ Ch1 □ Ch2 □ Ch3	□ SISO	⊠ 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 d	an be			given time.						
<b>8</b> 02.11ax			MHz			<b>8</b> 02.11ax			40MHz	
RU type	26	-tone RU	5	2-tone RU		RU type	26-tone RU			52-tone RU
	RU0	[-121: -96]	RU37	[-121: -70]			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		RU index	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]		
RU index	RU17	N/A	10	06-tone RU			RU17	[218: 243]	1	06-tone RU
and subcarrier	RU18	N/A	RU53	[-122: -17]		and subcarrier	RU18	N/A	RU53	[-243: -138]
range	RU19	N/A	RU54	[17: 122]		range	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	24	12-tone RU			RU27	N/A	2	42-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	4	84-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			
	RADIAT	ED EMISSIC	N TEST (ABOVE	E 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		
902 11 ov UF20	1 to 12	1,6		FULL RU 26/0 52/37 106/53	MCS0	Ch0/Ch1/MIMO		
802.11ax HE20	1 to 13	11, 12, 13	OFDMA	FULL RU 26/8 52/40 106/54	MCS0	Ch0/Ch1/MIMO		
		3		FULL RU 242/61	MCS0	Ch0/Ch1/MIMO		
802.11ax HE40	3 to 11	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 demonstrated in full RU configuration in this report.

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### Note:

The field strength of radiation emission was measuredfor 802.11b/g/n/ax WLAN Transmitter for above tested channel, the worst case NB position was reported.

## 4.4 Antenna Port Conducted Mesurement:

CONDUCTED TEST							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULA- TION	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		
		Pea	ık Output I	Power,EIRP				
		1, 2		FULL RU 26/0 52/37 106/53	MCS0	Ch0/Ch1/MIMO		
		3, 6, 7, 8		FULL RU	MCS0	Ch0/Ch1/MIMO		
802.11ax HE20	1 to 13	9		FULL RU 106/54	MCS0	Ch0/Ch1/MIMO		
		10, 11, 12, 13	OFDMA	FULL RU 26/8 52/40 106/54	MCS0	Ch0/Ch1/MIMO		
		3, 4, 5		FULL RU 242/61	MCS0	Ch0/Ch1/MIMO		
802.11ax HE40	3 to 11	6		FULL RU	MCS0	Ch0/Ch1/MIMO		
		7, 8, 9, 10, 11		FULL RU 242/62	MCS0	Ch0/Ch1/MIMO		
			Power D	ensity				
		1		FULL RU 26/0 52/37 106/53	MCS0	Ch0/Ch1/MIMO		
802.11ax HE20	1 to 13	6, 7, 11, 12,		FULL RU	MCS0	Ch0/Ch1/MIMO		
		13	OFDMA	FULL RU 26/8 52/40 106/54	MCS0	Ch0/Ch1/MIMO		
		3		FULL RU 242/61	MCS0	Ch0/Ch1/MIMO		
802.11ax HE40	3 to 11	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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## **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					
	9kHz~30MHz: +-2.3dB				
	30MHz – 180MHz: +/- 3.37dB				
Baladadaa Wadaal	180MHz -417MHz: +/- 3.19dB				
Polarization: Vertical	0.417GHz-1GHz: +/- 3.19dB				
	1GHz – 18GHz: +/- 4.04dB				
	18GHz – 40GHz: +/- 4.04dB				
	9kHz~30MHz: +-2.3dB				
	30MHz – 167MHz: +/- 4.22dB				
Balad ada a Hadi a dal	167MHz -500MHz: +/- 3.44dB				
Polarization: Horizontal	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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## CONDUCTED EMISSION TEST

## 6.1 Standard Applicable

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

Frequency range	Lin dB(	nits μV)
MHz	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	MFR	MODEL	SERIAL	LAST	CAL DUE.				
TYPE		NUMBER	NUMBER	CAL.					
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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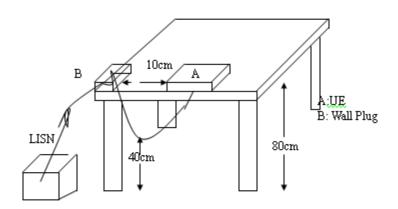
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# 6.4 Test SET-UP (Block Diagram of Configuration)



#### 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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# AC POWER LINE CONDUCTED EMISSION TEST DATA

# Adapter 1

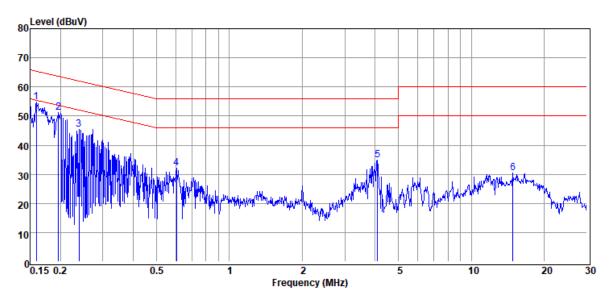
Report Number **Test Site** :Conduction Room C :E2/2020/70005

:WLAN 2.4G **Test Date** :2020-09-02 **Test Mode** 

:120V/60Hz Temp./Humi. :23.7/64 Power

Probe :L1 Engineer :Ashton

Note: :EUT\_ Config 1



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	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 Mode :WLAN 2.4G

Power :120V/60Hz

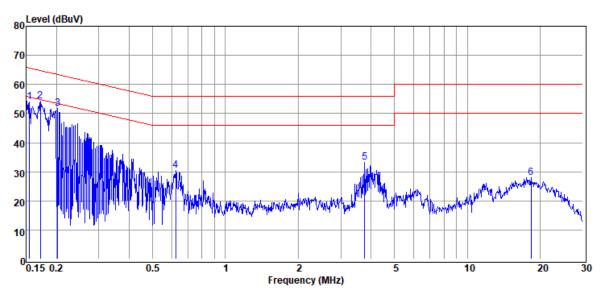
Probe :N

Note: :EUT Config 1 **Test Site** :Conduction Room C

**Test Date** :2020-09-02

Temp./Humi. :23.7/64

Engineer :Ashton

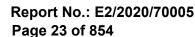


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.15	Peak	43.82	10.21	54.03	65.74	-11.71
0.17	Peak	43.93	10.21	54.14	64.86	-10.72
0.20	Peak	41.43	10.21	51.64	63.49	-11.85
0.62	Peak	20.21	10.28	30.49	56.00	-25.51
3.76	Peak	22.60	10.49	33.09	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 Mode :WLAN 2.4G

Power :120V/60Hz

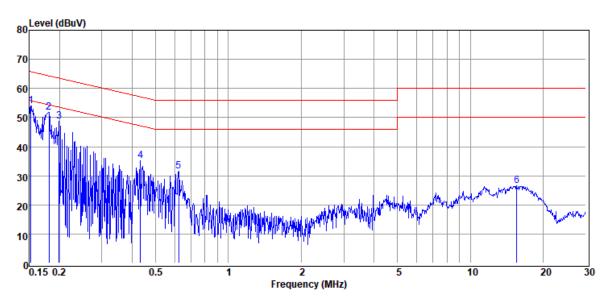
Probe :L1

Note: :EUT Config 2 **Test Site** :Conduction Room C

**Test Date** :2020-09-02

Temp./Humi. :24.0/64

Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	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 Mode :WLAN 2.4G

Power :120V/60Hz

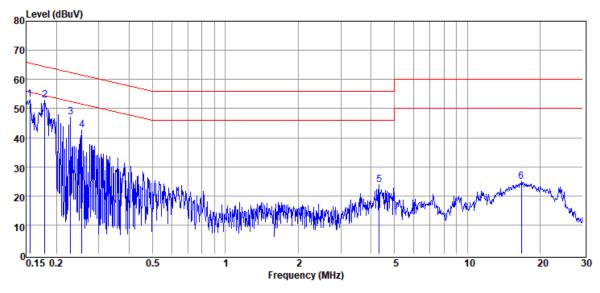
Probe :N

Note: :EUT\_ Config 2 **Test Site** :Conduction Room C

**Test Date** :2020-09-02

Temp./Humi. :24.0/64

Engineer :Ashton



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	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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# Adapter 2

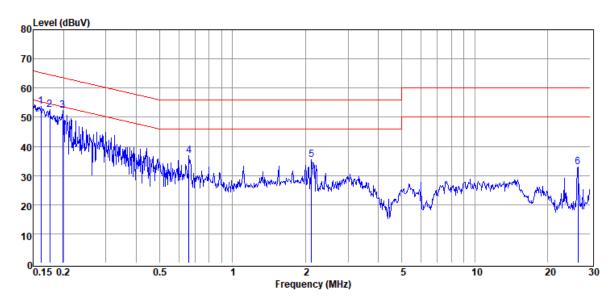
Report Number Test Site :Conduction Room C :E2/2020/70005

Test Mode :WLAN 2.4G **Test Date** :2020-08-14

Power :120V/60Hz Temp./Humi. :24.1/61

Probe :L1 Engineer :Ashton

Note: : Config 1



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	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

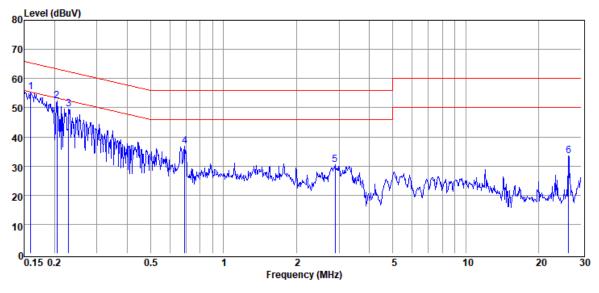
Probe :N

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	dΒμV	dB	dΒμV	dΒμV	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

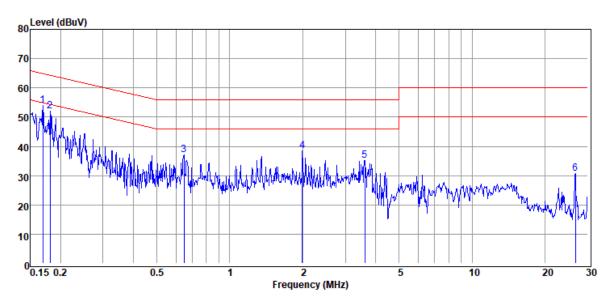
Probe :L1

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	dΒμV	dB	dΒμV	dΒμV	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

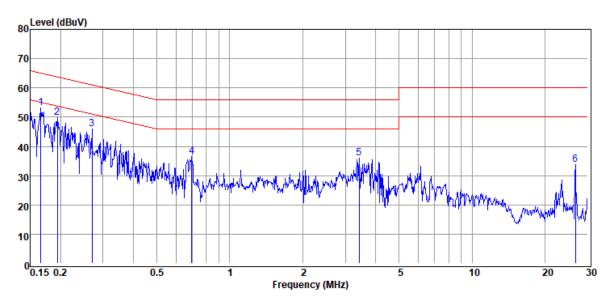
Probe :N

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
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	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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### **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

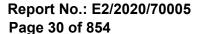
# 7.3 Duty Cycle test plots

Please refer to next page for test plots.

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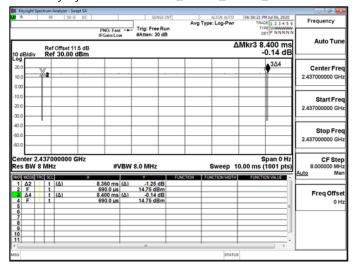
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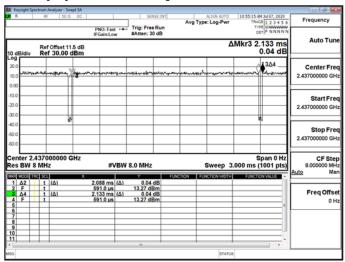




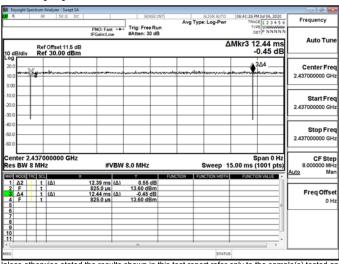
### Duty Cycle\WLAN\802.11b\_20MHz\_Chain1\_2437MHz



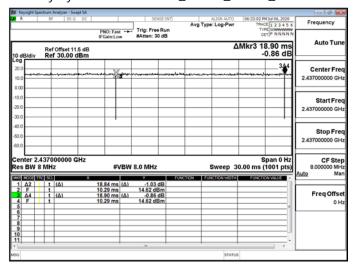
# Duty Cycle\WLAN\802.11g\_20MHz\_Chain1\_2437MHz



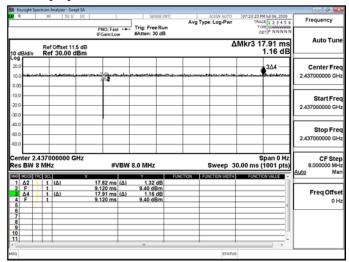
### Duty Cycle\WLAN\802.11n\_20MHz\_Chain1\_2437MHz



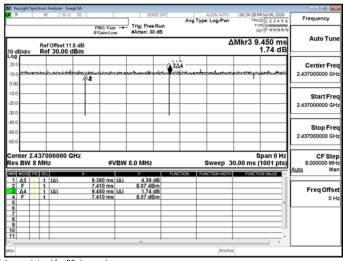
## Duty Cycle\WLAN\802.11ax\_20MHz\_Chain1\_2437MHz



## Duty Cycle\WLAN\802.11n\_40MHz\_Chain1\_2437MHz



### Duty Cycle\WLAN\802.11ax\_40MHz\_Chain1\_2437MHz



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# 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 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). 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.

If all transmit signals are *completely uncorrelated*, then

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

where

NANT = the total number of antennas

G is the gain in dBi.

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

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# 8.2 Measurement Equipment Used

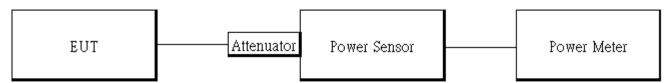
	Conducted Emission Test Site						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021		
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021		
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021		
Attenuator	Marvelous	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

802.1	1b Ch0				
СН	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
802.1	1b Ch0				
СН	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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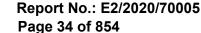
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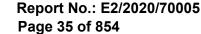




802.11g Ch0 **Peak Output** Limit Freq. Data CH **Power RESULT** (MHz) Rate (dBm) (dBm) 6 **PASS** 2412 21.91 30.00 1 2 2417 6 23.51 30.00 **PASS PASS** 3 2422 6 24.35 30.00 6 **PASS** 2437 24.31 30.00 6 24.23 **PASS** 7 2442 6 30.00 6 24.33 30.00 **PASS** 8 2447 9 6 23.57 30.00 **PASS** 2452 **PASS**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

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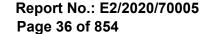
802.1	1n_HT20N	/I Ch0			
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	HT0	21.05	30.00	PASS
2	2417	HT0	23.73	30.00	PASS
3	2422	HT0	24.35	30.00	PASS
6	2437	HT0	24.50	30.00	PASS
7	2442	HT0	24.32	30.00	PASS
8	2447	HT0	24.33	30.00	PASS
9	2452	HT0	23.58	30.00	PASS
10	2457	HT0	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
802.1	1n_HT20N	/I Ch0		-	
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	HT0	15.91	30.00	PASS
2	2417	HT0	10.00	20.00	D 400
_		пто	18.98	30.00	PASS
3	2422	HT0	19.94	30.00	PASS
6	2422 2437				
_		HT0	19.94	30.00	PASS
6	2437	HT0 HT0	19.94 19.94	30.00 30.00	PASS PASS
6	2437 2442	HT0 HT0 HT0	19.94 19.94 19.89	30.00 30.00 30.00	PASS PASS PASS
6 7 8	2437 2442 2447	HTO HTO HTO	19.94 19.94 19.89 19.82	30.00 30.00 30.00 30.00	PASS PASS PASS PASS
6 7 8 9	2437 2442 2447 2452	HT0 HT0 HT0 HT0	19.94 19.94 19.89 19.82 18.72	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS
6 7 8 9	2437 2442 2447 2452 2457	HT0 HT0 HT0 HT0 HT0	19.94 19.94 19.89 19.82 18.72 18.74	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS

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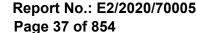


802.1	1n_HT40N	/I Ch0			
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	20.64	30.00	PASS
4	2427	HT0	22.43	30.00	PASS
5	2432	HT0	21.73	30.00	PASS
6	2437	HT0	24.45	30.00	PASS
7	2442	HT0	21.43	30.00	PASS
8	2447	HT0	19.32	30.00	PASS
9	2452	HT0	17.91	30.00	PASS
10	2457	HT0	17.04	30.00	PASS
11	2462	HT0	19.13	30.00	PASS
802.1	1n_HT40N	/I Ch0		•	
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
			(* )	ζ- /	
3	2422	HT0	14.48	30.00	PASS
3	2422 2427	HT0 HT0	, ,		PASS PASS
		-	14.48	30.00	
4	2427	HT0	14.48 16.71	30.00 30.00	PASS
4 5	2427 2432	HT0 HT0	14.48 16.71 15.98	30.00 30.00 30.00	PASS PASS
4 5 6	2427 2432 2437	HT0 HT0 HT0	14.48 16.71 15.98 19.91	30.00 30.00 30.00 30.00	PASS PASS PASS
4 5 6 7	2427 2432 2437 2442	HT0 HT0 HT0 HT0	14.48 16.71 15.98 19.91 15.19	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
4 5 6 7 8	2427 2432 2437 2442 2447	HT0 HT0 HT0 HT0	14.48 16.71 15.98 19.91 15.19 13.61	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS

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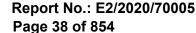




802.11ax\_HE20M Ch0 **Peak Output** Limit RU Freq. Data CH Power **RESULT** Config (dBm) (MHz) Rate (dBm) **PASS** full 20.15 30.00 **PASS** 26/0 22.30 30.00 MCS<sub>0</sub> 1 2412 **PASS** 52/37 24.29 30.00 PASS 23.13 30.00 106/53 **PASS** full 23.20 30.00 **PASS** 2 MCS0 2417 26/0 23.94 30.00 52/37 23.83 30.00 **PASS** 2422 MCS0 **PASS** 3 full 24.18 30.00 **PASS** 24.51 30.00 6 2437 MCS0 full **PASS** 2442 MCS0 full 24.33 30.00 7 **PASS** 8 2447 MCS0 full 24.27 30.00 full 23.16 30.00 **PASS** 9 2452 MCS0 **PASS** 106/54 24.17 30.00 **PASS** full 23.73 30.00 **PASS** 24.24 30.00 26/8 10 2457 MCS0 **PASS** 52/40 24.27 30.00 24.03 30.00 **PASS** 106/54 PASS full 20.07 30.00 **PASS** 26/8 21.70 30.00 MCS0 11 2462 PASS 24.91 30.00 52/40 106/54 23.63 30.00 **PASS** 17.21 30.00 **PASS** full **PASS** 23.74 26/8 30.00 MCS<sub>0</sub> 12 2467 **PASS** 52/40 23.84 30.00 **PASS** 106/54 21.48 30.00 30.00 **PASS** full 18.95 17.95 30.00 **PASS** 26/8 13 2472 MCS0 **PASS** 52/40 18.73 30.00 **PASS** 18.31 30.00 106/54

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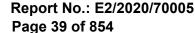




802.11ax\_HE20M Ch0 RU Avg. Output Power Limit Freq. Data CH **RESULT** Config (dBm) (dBm) (MHz) Rate **PASS** full 14.94 30.00 **PASS** 26/0 16.84 30.00 1 2412 MCS0 52/37 **PASS** 12.80 30.00 **PASS** 106/53 18.41 30.00 **PASS** full 18.18 30.00 2 2417 MCS0 **PASS** 26/0 19.46 30.00 30.00 PASS 52/37 19.74 MCS0 **PASS** 2422 19.64 30.00 3 full **PASS** 2437 MCS<sub>0</sub> 19.88 30.00 6 full **PASS** 2442 MCS0 19.74 30.00 7 full 8 MCS0 19.78 **PASS** 2447 full 30.00 PASS full 18.23 30.00 9 MCS<sub>0</sub> 2452 **PASS** 106/54 19.93 30.00 PASS full 18.44 30.00 26/8 **PASS** 19.59 30.00 MCS<sub>0</sub> 10 2457 **PASS** 19.88 52/40 30.00 106/54 19.75 30.00 **PASS PASS** full 14.85 30.00 **PASS** 26/8 16.85 30.00 MCS<sub>0</sub> 11 2462 14.37 30.00 **PASS** 52/40 **PASS** 106/54 11.83 30.00 full 12.25 30.00 **PASS** 12.99 **PASS** 26/8 30.00 12 2467 MCS0 **PASS** 52/40 13.89 30.00 **PASS** 10.99 30.00 106/54 **PASS** full 8.52 30.00 **PASS** 26/8 6.84 30.00 13 2472 MCS0 **PASS** 52/40 7.96 30.00 **PASS** 106/54 7.35 30.00

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802.11ax\_HE40M Ch0 **Peak Output** Freq. Data RU Limit CH Power **RESULT** (MHz) Rate Config (dBm) (dBm) 19.75 **PASS** full 30.00 3 2422 MCS0 PASS 242/61 24.07 30.00 21.90 30.00 **PASS** full MCS0 4 2427 **PASS** 242/61 23.47 30.00 30.00 PASS full 20.83 5 MCS0 2432 PASS 242/61 23.34 30.00 MCS0 24.26 30.00 PASS 6 2437 full PASS full 21.38 30.00 7 2442 MCS0 242/62 PASS 23.26 30.00 **PASS** full 20.44 30.00 MCS0 8 2447 PASS 242/62 23.33 30.00 PASS full 16.54 30.00 9 2452 MCS0 PASS 242/62 24.32 30.00 full 17.32 30.00 PASS 10 2457 MCS0 PASS 242/62 24.16 30.00 30.00 full 16.61 **PASS** MCS0 11 2462 30.00 PASS 242/62 21.15 802.11ax\_HE40M Ch0 Freq. Data RU Avg. Output Power Limit CH **RESULT** (MHz) Rate Confia (dBm) (dBm) 14.48 30.00 PASS full 3 2422 MCS0 PASS 13.22 30.00 242/61 PASS 30.00 full 16.24 4 MCS0 2427 **PASS** 242/61 19.49 30.00 15.98 30.00 **PASS** full 5 MCS0 2432 **PASS** 18.72 30.00 242/61 2437 MCS0 full 19.96 30.00 **PASS** 6 PASS full 15.47 30.00 7 2442 MCS0 PASS 242/62 18.72 30.00 PASS full 14.49 30.00 MCS0 8 2447 242/62 18.47 30.00 **PASS** PASS 10.86 30.00 full 9 MCS0 2452 242/62 15.48 30.00 **PASS** full 9.91 30.00 PASS MCS0 10 2457 242/62 30.00 **PASS** 12.74 full 6.47 30.00 **PASS** MCS0 11 2462 7.72 **PASS** 242/62 30.00

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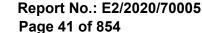
Mode: Chain 1

MHz    Rate   (dBm)   (dBm)	802.1	1b Ch1				
6         2437         1         23.31         30.00         PAS           7         2442         1         22.72         30.00         PAS           11         2462         1         22.68         30.00         PAS           12         2467         1         19.70         30.00         PAS           13         2472         1         18.78         30.00         PAS           802.11b Ch1         CH         Freq. (MHz)         Data Rate         Avg. Output (dBm)         Limit (dBm)         RESU           1         2412         1         19.94         30.00         PAS           6         2437         1         19.99         30.00         PAS           7         2442         1         19.97         30.00         PAS           11         2462         1         19.87         30.00         PAS           12         2467         1         16.49         30.00         PAS	СН	-		Power		RESULT
7         2442         1         22.72         30.00         PAS           11         2462         1         22.68         30.00         PAS           12         2467         1         19.70         30.00         PAS           13         2472         1         18.78         30.00         PAS           802.11b Ch1         CH         Freq. (MHz)         Data Rate         Avg. Output (dBm)         Limit (dBm)         RESU           1         2412         1         19.94         30.00         PAS           6         2437         1         19.99         30.00         PAS           7         2442         1         19.97         30.00         PAS           11         2462         1         19.87         30.00         PAS           12         2467         1         16.49         30.00         PAS	1	2412	1	22.37	30.00	PASS
11       2462       1       22.68       30.00       PAS         12       2467       1       19.70       30.00       PAS         13       2472       1       18.78       30.00       PAS         802.11b Ch1         CH       Freq. (MHz)       Data Rate       Avg. Output (dBm)       Limit (dBm)       RESU         1       2412       1       19.94       30.00       PAS         6       2437       1       19.99       30.00       PAS         7       2442       1       19.97       30.00       PAS         11       2462       1       19.87       30.00       PAS         12       2467       1       16.49       30.00       PAS	6	2437	1	23.31	30.00	PASS
12       2467       1       19.70       30.00       PAS         13       2472       1       18.78       30.00       PAS         802.11b Ch1       Avg. Output       Limit (dBm)         Power (dBm)         1       2412       1       19.94       30.00       PAS         6       2437       1       19.99       30.00       PAS         7       2442       1       19.97       30.00       PAS         11       2462       1       19.87       30.00       PAS         12       2467       1       16.49       30.00       PAS	7	2442	1	22.72	30.00	PASS
13       2472       1       18.78       30.00       PASS         802.11b Ch1       CH       Freq. (MHz)       Data Rate       Avg. Output (dBm)       Limit (dBm)       RESU         1       2412       1       19.94       30.00       PAS         6       2437       1       19.99       30.00       PAS         7       2442       1       19.97       30.00       PAS         11       2462       1       19.87       30.00       PAS         12       2467       1       16.49       30.00       PAS	11	2462	1	22.68	30.00	PASS
CH   Freq. (MHz)   Data   Rate   Power (dBm)   Power (dBm)   RESULT   Power (dBm)   RESULT   Power (dBm)   Power	12	2467	1	19.70	30.00	PASS
CH         Freq. (MHz)         Data Rate         Avg. Output (dBm)         Limit (dBm)         RESU           1         2412         1         19.94         30.00         PAS           6         2437         1         19.99         30.00         PAS           7         2442         1         19.97         30.00         PAS           11         2462         1         19.87         30.00         PAS           12         2467         1         16.49         30.00         PAS	13	2472	1	18.78	30.00	PASS
CH (MHz)         Rate         Power (dBm)         RESU           1 2412         1 19.94         30.00         PAS           6 2437         1 19.99         30.00         PAS           7 2442         1 19.97         30.00         PAS           11 2462         1 19.87         30.00         PAS           12 2467         1 16.49         30.00         PAS	802.1	1b Ch1		1		1
1       2412       1       19.94       30.00       PAS         6       2437       1       19.99       30.00       PAS         7       2442       1       19.97       30.00       PAS         11       2462       1       19.87       30.00       PAS         12       2467       1       16.49       30.00       PAS	СН	· ·		Ū .		RESULT
7       2442       1       19.97       30.00       PAS         11       2462       1       19.87       30.00       PAS         12       2467       1       16.49       30.00       PAS	1	2412	1	• •	30.00	PASS
11     2462     1     19.87     30.00     PAS       12     2467     1     16.49     30.00     PAS	6	2437	1	19.99	30.00	PASS
12 2467 1 16.49 30.00 PAS	7	2442	1	19.97	30.00	PASS
12 2.6.	11	2462	1	19.87	30.00	PASS
13 2472 1 14.50 30.00 PAS						DACC
	12	2467	1	16.49	30.00	PASS

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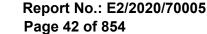




802.11g Ch1 **Peak Output** Freq. Data Limit **RESULT** CH **Power** (MHz) Rate (dBm) (dBm) **PASS** 2412 6 22.55 30.00 PASS 6 6 2437 24.41 30.00 PASS 2442 6 24.45 30.00 9 **PASS** 2452 6 24.47 30.00 **PASS** 10 2457 6 23.92 30.00 **PASS** 6 11 2462 21.02 30.00 6 **PASS** 12 2467 18.86 30.00 PASS 13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

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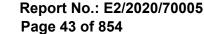


802.1	1n_HT20N	/I Ch1			
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	HT0	22.62	30.00	PASS
2	2417	HT0	24.44	30.00	PASS
6	2437	HT0	24.73	30.00	PASS
7	2442	HT0	24.54	30.00	PASS
9	2452	HT0	24.58	30.00	PASS
10	2457	HT0	24.36	30.00	PASS
11	2462	HT0	18.98	30.00	PASS
12	2467	HT0	17.46	30.00	PASS
13	2472	HT0	18.29	30.00	PASS
802.1	1n_HT20N	/I Ch1			
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
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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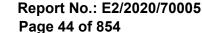


802.1	1n_HT40M	l Ch1			
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	22.41	30.00	PASS
4	2427	HT0	23.30	30.00	PASS
5	2432	HT0	23.11	30.00	PASS
6	2437	HT0	24.59	30.00	PASS
7	2442	HT0	20.14	30.00	PASS
8	2447	HT0	23.38	30.00	PASS
9	2452	HT0	17.95	30.00	PASS
10	2457	HT0	17.26	30.00	PASS
11	2462	HT0	18.23	30.00	PASS
802.1	1n_HT40M	l Ch1			
СН	Freq. (MHz)	Data Rate	Avg. Output	Limit (dBm)	RESULT
	(MHz)	Rate	Power (dBm)	(dBm)	
<b>CH</b> 3	•	Rate HT0			PASS
	(MHz)	Rate HT0 HT0	Power (dBm)	(dBm)	PASS PASS
3	(MHz)	Rate HT0 HT0 HT0	Power (dBm) 16.48	(dBm) 30.00	PASS PASS PASS
3	(MHz) 2422 2427	Rate HT0 HT0	Power (dBm)  16.48  17.94	(dBm) 30.00 30.00	PASS PASS
3 4 5	(MHz) 2422 2427 2432	Rate HT0 HT0 HT0	Power (dBm)  16.48  17.94  17.59	(dBm) 30.00 30.00 30.00	PASS PASS PASS
3 4 5 6	2422 2427 2432 2437	Rate HT0 HT0 HT0 HT0	Power (dBm)  16.48  17.94  17.59  19.95	(dBm) 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
3 4 5 6 7	2422 2427 2432 2437 2442	HTO HTO HTO HTO HTO	Power (dBm)  16.48  17.94  17.59  19.95  14.80	(dBm) 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS
3 4 5 6 7 8	(MHz)  2422  2427  2432  2437  2442  2447	Rate  HT0  HT0  HT0  HT0  HT0  HT0  HT0	Power (dBm)  16.48  17.94  17.59  19.95  14.80  17.45	(dBm)  30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS

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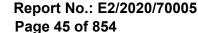




802.11ax\_HE20M Ch1 **Peak Output** Freq. Data Limit CH **RU** Config **RESULT Power** (dBm) (MHz) Rate (dBm) 22.22 **PASS** 30.00 full 26/0 23.64 30.00 **PASS** MCS<sub>0</sub> 1 2412 **PASS** 52/37 23.35 30.00 **PASS** 106/53 22.85 30.00 PASS 24.16 30.00 full MCS0 2 2417 **PASS** 24.02 30.00 106/53 **PASS** 6 2437 MCS<sub>0</sub> full 24.42 30.00 2442 MCS<sub>0</sub> 24.56 **PASS** full 30.00 9 **PASS** 2452 MCS<sub>0</sub> full 24.51 30.00 **PASS** full 23.24 30.00 **PASS** 24.26 26/8 30.00 10 2457 MCS<sub>0</sub> **PASS** 24.25 30.00 52/40 **PASS** 24.04 30.00 106/54 PASS full 20.12 30.00 **PASS** 25.11 30.00 26/8 MCS0 11 2462 PASS 24.75 30.00 52/40 PASS 25.13 30.00 106/54 18.14 30.00 **PASS** full **PASS** 25.21 30.00 26/8 MCS<sub>0</sub> 12 2467 **PASS** 24.70 30.00 52/40 **PASS** 25.06 30.00 106/54 **PASS** 18.56 30.00 full 20.72 30.00 **PASS** 26/8 2472 MCS0 13 52/40 20.40 **PASS** 30.00 **PASS** 106/54 20.05 30.00

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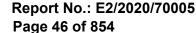




802.11ax\_HE20M Ch1 Freq. Data Avg. Output Limit **RU** Config CH **RESULT** Rate (dBm) (MHz) Power (dBm) PASS full 16.97 30.00 PASS 26/0 18.36 30.00 1 2412 MCS<sub>0</sub> **PASS** 52/37 18.38 30.00 **PASS** 106/53 17.90 30.00 30.00 **PASS** 19.54 full MCS<sub>0</sub> 2 2417 PASS 19.68 30.00 106/53 **PASS** 2437 MCS0 19.73 6 full 30.00 **PASS** 2442 MCS0 19.73 30.00 full **PASS** 9 2452 MCS<sub>0</sub> full 19.82 30.00 full 18.20 **PASS** 30.00 PASS 19.66 30.00 26/8 MCS0 10 2457 **PASS** 52/40 19.55 30.00 PASS 19.75 30.00 106/54 **PASS** 14.92 30.00 full PASS 14.88 30.00 26/8 MCS<sub>0</sub> 11 2462 13.37 30.00 **PASS** 52/40 **PASS** 15.33 30.00 106/54 **PASS** 12.84 30.00 full **PASS** 15.48 30.00 26/8 MCS0 12 2467 **PASS** 13.47 30.00 52/40 14.38 30.00 **PASS** 106/54 **PASS** full 7.91 30.00 7.36 **PASS** 26/8 30.00 13 2472 MCS<sub>0</sub> 52/40 7.72 **PASS** 30.00 **PASS** 106/54 7.04 30.00

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802.11ax\_HE40M Ch1 **Peak Output** Freq. Data Limit CH **RU** Config Power **RESULT** Rate (dBm) (MHz) (dBm) PASS full 22.34 30.00 3 2422 MCS0 PASS 242/61 21.71 30.00 **PASS** full 23.18 30.00 MCS<sub>0</sub> 4 2427 30.00 PASS 242/61 24.23 **PASS** MCS0 22.55 30.00 full 5 2432 PASS 6 2437 MCS0 full 24.42 30.00 PASS full 22.89 30.00 7 2442 MCS<sub>0</sub> 242/62 24.16 30.00 **PASS** full 21.13 30.00 PASS 8 2447 MCS0 **PASS** 242/62 30.00 23.85 19.12 **PASS** full 30.00 9 2452 MCS0 PASS 242/62 25.10 30.00 PASS full 15.84 30.00 2457 MCS<sub>0</sub> 10 PASS 242/62 24.60 30.00 **PASS** full 17.82 30.00 2462 MCS0 11 22.54 30.00 PASS 242/62 802.11ax\_HE40M Ch1 Frea. Limit Data Avg. Output CH **RU** Config RESULT (MHz) Rate (dBm) Power (dBm) PASS 15.99 full 30.00 3 2422 MCS<sub>0</sub> PASS 242/61 16.47 30.00 PASS full 17.74 30.00 MCS<sub>0</sub> 4 2427 242/61 19.66 30.00 **PASS** MCS0 full 17.17 30.00 PASS 5 2432 19.98 30.00 PASS 6 2437 MCS0 full **PASS** full 16.98 30.00 7 2442 MCS<sub>0</sub> PASS 242/62 19.46 30.00 PASS 15.49 30.00 full 8 MCS0 2447 PASS 242/62 30.00 18.97 PASS 30.00 full 13.42 9 2452 MCS0 **PASS** 242/62 15.41 30.00 30.00 PASS full 8.11 10 2457 MCS0 30.00 PASS 242/62 14.48 full 7.47 30.00 **PASS** 2462 MCS0 11 242/62 10.30 30.00 **PASS** 

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Mode: MIMO

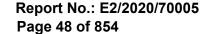
802.1	1n_HT20N	л мімо					
СН	Freq. (MHz)	Data Rate		Output wer CH 0	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	HT8	21.02	21.41	24.23	30.00	PASS
2	2417	HT8	24.09	24.45	27.28	30.00	PASS
3	2417	HT8	24.07	24.43	27.38	30.00	PASS
6	2437	HT8	24.22	24.37	27.30	30.00	PASS
7	2442	HT8	24.21	24.57	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
	1n_HT20N		17.70	17.00	22.01	00.00	1
СН	Freq. (MHz)	Data	Avg. Output Power (dBm)		Total Avg. Output Power	Limit	RESULT
		Rate	(dE	3m)		(dBm)	KESULI
		Rate	CH 1	Bm) CH 0	(dBm)	(dBm)	KESULI
1	2412	HT8		•		(dBm) 30.00	PASS
1 2			CH 1	CH 0	(dBm)		
	2412	HT8	CH 1 15.83	CH 0 15.98	(dBm) 18.93	30.00	PASS
2	2412 2417	HT8 HT8	CH 1 15.83 19.75	CH 0 15.98 20.12	(dBm) 18.93 22.97	30.00	PASS PASS
2	2412 2417 2422	HT8 HT8 HT8	CH 1 15.83 19.75 19.78	CH 0 15.98 20.12 20.12	(dBm) 18.93 22.97 22.98	30.00 30.00 30.00	PASS PASS PASS
2 3 6	2412 2417 2422 2437	HT8 HT8 HT8 HT8	CH 1 15.83 19.75 19.78 19.85	CH 0 15.98 20.12 20.12 20.01	(dBm)  18.93 22.97 22.98 22.96	30.00 30.00 30.00 30.00	PASS PASS PASS PASS
2 3 6 7	2412 2417 2422 2437 2442	HT8 HT8 HT8 HT8	CH 1 15.83 19.75 19.78 19.85 19.68	CH 0 15.98 20.12 20.12 20.01 20.19	(dBm)  18.93 22.97 22.98 22.96 22.97	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS
2 3 6 7 9	2412 2417 2422 2437 2442 2452	HT8 HT8 HT8 HT8 HT8	CH 1 15.83 19.75 19.78 19.85 19.68 18.35	CH 0 15.98 20.12 20.12 20.01 20.19 18.47	(dBm)  18.93 22.97 22.98 22.96 22.97 21.44	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS
2 3 6 7 9	2412 2417 2422 2437 2442 2452 2457	HT8 HT8 HT8 HT8 HT8 HT8 HT8 HT8	CH 1 15.83 19.75 19.78 19.85 19.68 18.35 19.23	CH 0 15.98 20.12 20.12 20.01 20.19 18.47 19.38	(dBm)  18.93 22.97 22.98 22.96 22.97 21.44 22.33	30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS

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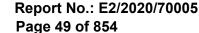


802.11n_HT40M MIMO										
СН	Freq. (MHz)	Data Rate	Po	Output wer	Total Peak Output Power	Limit (dBm)	RESULT			
	(141112)		CH 1	CH 0	(dBm)	(aBiii)				
3	2422	HT8	19.65	19.89	22.78	30.00	PASS			
4	2427	HT8	22.57	23.08	25.84	30.00	PASS			
5	2432	HT8	21.47	21.88	24.69	30.00	PASS			
6	2437	HT8	24.31	24.44	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			
802.1	1n_HT40N	MIMO					•			
	_									
	_		Avg. C	Output	Total Avg. Output					
	Freq.	Data	_	Output wer	Total Avg. Output	Limit	DESIII T			
СН			Po	•	Power	Limit (dBm)	RESULT			
	Freq.	Data	Po	wer	• .		RESULT			
	Freq.	Data	Po <sup>s</sup> (dE	wer Bm)	Power		RESULT PASS			
СН	Freq. (MHz)	Data Rate	Por (dE	wer Bm) CH 0	Power (dBm)	(dBm)				
CH 3	Freq. (MHz)	Data Rate HT8	Por (dE CH 1	wer Bm) CH 0	Power (dBm) 16.99	(dBm) 30.00	PASS			
CH 3 4	Freq. (MHz)  2422 2427	Data Rate HT8 HT8	Por (dE CH 1 13.85 16.97	wer Bm) CH 0 14.06	Power (dBm)  16.99 20.22	(dBm) 30.00 30.00	PASS PASS			
CH  3 4 5	Freq. (MHz)  2422 2427 2432	Data Rate HT8 HT8 HT8	Por (dE CH 1 13.85 16.97 15.68	wer Bm) CH 0 14.06 17.40 16.11	Power (dBm)  16.99  20.22  18.93	(dBm) 30.00 30.00 30.00	PASS PASS PASS			
CH  3 4 5 6	Freq. (MHz)  2422 2427 2432 2437	Data Rate HT8 HT8 HT8	Por (dE CH 1 13.85 16.97 15.68 19.85	wer 3m) CH 0 14.06 17.40 16.11 19.97	Power (dBm) 16.99 20.22 18.93 22.94	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS			
CH  3 4 5 6 7	Freq. (MHz)  2422 2427 2432 2437 2442	Data Rate  HT8 HT8 HT8 HT8 HT8 HT8	Por (dE CH 1 13.85 16.97 15.68 19.85 14.68	wer 3m) CH 0 14.06 17.40 16.11 19.97 15.13	Power (dBm)  16.99  20.22  18.93  22.94  17.94	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS			
CH  3 4 5 6 7 8	Freq. (MHz)  2422 2427 2432 2437 2442 2447	Data Rate  HT8 HT8 HT8 HT8 HT8 HT8 HT8	Por (dE CH 1 13.85 16.97 15.68 19.85 14.68 13.37	wer 3m) CH 0 14.06 17.40 16.11 19.97 15.13 14.02	Power (dBm)  16.99  20.22  18.93  22.94  17.94  16.74	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS			

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802.11ax\_HE20M MIMO Total Peak **Peak Output** RU Limit Freq. Data **RESULT** CH Power **Output Power** (MHz) Config (dBm) Rate CH<sub>1</sub> CH<sub>0</sub> (dBm) full 20.71 **PASS** 20.43 23.58 30.00 PASS 26/0 21.22 21.45 24.35 30.00 MCS0 1 2412 **PASS** 52/37 22.51 22.63 25.58 30.00 106/53 24.48 24.71 27.61 30.00 **PASS** 26.98 **PASS** 24.02 23.92 30.00 full MCS0 22.74 **PASS** 22.64 25.70 30.00 2 2417 52/37 PASS 22.51 25.58 30.00 106/53 22.63 **PASS** 3 2422 MCS<sub>0</sub> full 24.21 23.03 26.67 30.00 6 2437 MCS0 full 24.50 24.67 27.60 30.00 **PASS PASS** 2442 MCS0 full 24.16 24.55 27.37 30.00 7 PASS MCS0 24.21 27.28 8 2447 full 24.32 30.00 9 **PASS** 2452 MCS<sub>0</sub> full 23.35 23.70 26.54 30.00 PASS 23.50 23.62 26.57 30.00 full 30.00 **PASS** 22.53 22.72 25.64 26/8 MCS<sub>0</sub> 10 2457 22.77 22.93 25.86 30.00 **PASS** 52/40 22.78 **PASS** 22.72 25.76 30.00 106/54 **PASS** full 19.00 19.23 22.13 30.00 **PASS** 24.00 24.25 27.14 30.00 26/8 MCS0 11 2462 21.74 **PASS** 21.57 24.67 30.00 52/40 **PASS** 19.62 19.83 22.74 30.00 106/54 19.10 **PASS** 18.76 21.94 30.00 full **PASS** 21.24 30.00 21.06 24.16 26/8 MCS0 2467 12 21.87 22.00 24.95 30.00 **PASS** 52/40 21.23 **PASS** 21.03 24.14 30.00 106/54 **PASS** full 16.95 17.60 20.30 30.00 **PASS** 26/8 19.69 16.52 16.83 30.00 MCS<sub>0</sub> 13 2472 52/40 9.37 12.80 30.00 **PASS** 10.18

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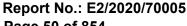
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**PASS** 





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СН	Freq. (MHz)	Data Rate	RU Config	Po	Output wer Bm) CH 0	Total Avg. Output Power (dBm)	Limit (dBm)	RESULT
			full	14.75	14.99	17.90	30.00	PASS
4	0.440	1,4000	26/0	15.70	15.95	18.85	30.00	PASS
1	2412	MCS0	52/37	12.85	13.05	15.98	30.00	PASS
			106/53	14.15	14.28	17.24	30.00	PASS
			full	17.91	17.99	20.97	30.00	PASS
2	2417	MCS0	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
			full	18.15	18.27	21.23	30.00	PASS
4.0		MCS0	26/8	17.33	17.64	20.51	30.00	PASS
10	2457	IVICSU	52/40	17.66	17.89	20.80	30.00	PASS
			106/54	17.86	18.01	20.96	30.00	PASS
			full	13.71	13.87	16.81	30.00	PASS
4.4	2462	MCS0	26/8	12.38	12.47	15.45	30.00	PASS
11	2462	IVICSO	52/40	10.66	10.81	13.76	30.00	PASS
			106/54	13.75	14.02	16.91	30.00	PASS
			full	8.31	8.59	11.48	30.00	PASS
12	2467	MCS0	26/8	9.85	10.05	12.98	30.00	PASS
12	2467	INICSO	52/40	11.42	11.48	14.47	30.00	PASS
			106/54	9.90	10.02	12.98	30.00	PASS
			full	6.84	7.05	9.97	30.00	PASS
13	2472	MCS0	26/8	6.31	6.62	9.49	30.00	PASS
13	27/2	INICOU	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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	Freq.	Doto	RU	Peak C	Output	Total Peak	Limit	
СН		Data		Pov	wer	Output Power		RESUL1
	(MHz)	Rate	Config	CH1	CH 0	(dBm)	(dBm)	
3	2422	MCS0	full	19.03	19.33	22.19	30.00	PASS
J	2422	IVICSU	242/61	24.33	24.53	27.44	30.00	PASS
_	2427	MCS0	full	18.55	18.78	21.68	30.00	PASS
4	2427	MCS0	242/61	22.32	22.66	25.50	30.00	PASS
_	2422	MCS0	full	21.40	21.89	24.66	30.00	PASS
5	2432	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
	2442	MCS0	full	21.88	22.42	25.17	30.00	PASS
7	2442	IVICSU	242/62	22.94	23.02	25.99	30.00	PASS
_	2447	MCS0	full	20.13	20.52	23.34	30.00	PASS
8	2447	IVICOU	242/62	20.65	21.24	23.97	30.00	PASS
_	2452	MCS0	full	16.63	16.98	19.82	30.00	PASS
9	2452	IVICSU	242/62	20.45	20.99	23.74	30.00	PASS
		MCS0	full	15.44	15.68	18.57	30.00	PASS
10	2457	IVICSU	242/62	22.06	22.69	25.40	30.00	PASS
		MCS0	full	18.53	18.65	21.60	30.00	PASS
11	2462	IVICSU	242/62	18.27	18.57	21.43	30.00	PASS
302.1	1ax_HE40	OM MIMC	)					
				Avg. Output				
СН	From			Power		Lintal Ava ()utbut L		
	Freq.	Data	RU	Pov	wer	Total Avg. Output	Limit	RESULT
СΠ	(MHz)	Data Rate	RU Config	(dE	Bm)	Power	Limit (dBm)	RESUL
υп			Config	(dE CH 1	Bm) CH 0	Power (dBm)	(dBm)	
	(MHz)	Rate	Config full	(dE	CH 0 12.53	Power (dBm) 15.49		PASS
3			Config	(dE CH 1	Bm) CH 0	Power (dBm)	(dBm)	PASS PASS
3	(MHz)	Rate	Config full	(dE CH 1 12.34	CH 0 12.53	Power (dBm) 15.49	(dBm) 30.00	PASS PASS PASS
	(MHz)	Rate MCS0	full 242/61	(dE CH 1 12.34 13.04 14.99 17.85	Bm) CH 0 12.53 13.25	Power (dBm) 15.49 16.20	(dBm) 30.00 30.00	PASS PASS PASS PASS
3 4	(MHz) 2422 2427	MCS0 MCS0 MCS0 MCS0	full 242/61 full	(dE CH 1 12.34 13.04 14.99	CH 0 12.53 13.25 15.11	Power (dBm)  15.49  16.20  18.10	30.00 30.00 30.00	PASS PASS PASS PASS PASS
3	(MHz)	Rate MCS0 MCS0 MCS0	full 242/61 full 242/61	(dE CH 1 12.34 13.04 14.99 17.85	CH 0 12.53 13.25 15.11 18.01	Power (dBm) 15.49 16.20 18.10 20.98	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
3 4	(MHz) 2422 2427	MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full	(dE CH 1 12.34 13.04 14.99 17.85 15.87	CH 0 12.53 13.25 15.11 18.01 16.01	Power (dBm) 15.49 16.20 18.10 20.98 18.99	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS
3 4 5 6	(MHz)  2422  2427  2432  2437	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 242/61	(dE CH 1 12.34 13.04 14.99 17.85 15.87 18.05	Bm) CH 0 12.53 13.25 15.11 18.01 16.01 18.23	Power (dBm) 15.49 16.20 18.10 20.98 18.99 21.19	30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS
3 4 5	(MHz) 2422 2427 2432	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 242/61 full	(dE CH 1 12.34 13.04 14.99 17.85 15.87 18.05 19.88	Bm) CH 0 12.53 13.25 15.11 18.01 16.01 18.23 19.94	Power (dBm)  15.49 16.20 18.10 20.98 18.99 21.19 22.96	30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS PASS
3 4 5 6 7	(MHz)  2422  2427  2432  2437  2442	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 241/61 full full full	(dB CH1 12.34 13.04 14.99 17.85 15.87 18.05 19.88 15.19	Bm) CH 0 12.53 13.25 15.11 18.01 16.01 18.23 19.94 15.64	Power (dBm)  15.49  16.20  18.10  20.98  18.99  21.19  22.96  18.47	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS PASS
3 4 5 6	(MHz)  2422  2427  2432  2437	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 242/61 full full 242/62	(dB CH1 12.34 13.04 14.99 17.85 15.87 18.05 19.88 15.19 17.91	Bm) CH 0 12.53 13.25 15.11 18.01 16.01 18.23 19.94 15.64 18.00	Power (dBm)  15.49  16.20  18.10  20.98  18.99  21.19  22.96  18.47  21.01	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS PASS
3 4 5 6 7	(MHz)  2422  2427  2432  2437  2442  2447	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 242/61 full 242/62 full	(dE CH1 12.34 13.04 14.99 17.85 15.87 18.05 19.88 15.19 17.91 13.39	Bm) CH 0 12.53 13.25 15.11 18.01 16.01 18.23 19.94 15.64 18.00 13.81	Power (dBm)  15.49 16.20 18.10 20.98 18.99 21.19 22.96 18.47 21.01 16.66	(dBm)  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00	PASS PASS PASS PASS PASS PASS PASS PASS
3 4 5 6 7	(MHz)  2422  2427  2432  2437  2442	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 242/62 full 242/62	(dE CH1 12.34 13.04 14.99 17.85 15.87 18.05 19.88 15.19 17.91 13.39 17.86	Bm)  CH 0  12.53  13.25  15.11  18.01  16.01  18.23  19.94  15.64  18.00  13.81  17.99	Power (dBm)  15.49 16.20 18.10 20.98 18.99 21.19 22.96 18.47 21.01 16.66 20.98	30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS PASS
3 4 5 6 7 8	(MHz)  2422  2427  2432  2437  2442  2447  2452	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 242/61 full 242/62 full 242/62 full	(dB CH1 12.34 13.04 14.99 17.85 15.87 18.05 19.88 15.19 17.91 13.39 17.86 9.75	Bm) CH 0 12.53 13.25 15.11 18.01 16.01 18.23 19.94 15.64 18.00 13.81 17.99 10.08	Power (dBm)  15.49  16.20  18.10  20.98  18.99  21.19  22.96  18.47  21.01  16.66  20.98  12.97	(dBm)  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00	PASS PASS PASS PASS PASS PASS PASS PASS
3 4 5 6 7	(MHz)  2422  2427  2432  2437  2442  2447	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 242/62 full 242/62 full 242/62	(dE CH1 12.34 13.04 14.99 17.85 15.87 18.05 19.88 15.19 17.91 13.39 17.86 9.75 12.35	Bm) CH 0 12.53 13.25 15.11 18.01 16.01 18.23 19.94 15.64 18.00 13.81 17.99 10.08 12.45	Power (dBm)  15.49  16.20  18.10  20.98  18.99  21.19  22.96  18.47  21.01  16.66  20.98  12.97  15.45	(dBm)  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00  30.00	PASS PASS PASS PASS PASS PASS PASS PASS
3 4 5 6 7 8	(MHz)  2422  2427  2432  2437  2442  2447  2452	MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0 MCS0	full 242/61 full 242/61 full 242/62 full 242/62 full 242/62 full 242/62	(dE CH1 12.34 13.04 14.99 17.85 15.87 18.05 19.88 15.19 17.91 13.39 17.86 9.75 12.35 7.53	Bm) CH 0 12.53 13.25 15.11 18.01 16.01 18.23 19.94 15.64 18.00 13.81 17.99 10.08 12.45 7.68	Power (dBm)  15.49 16.20 18.10 20.98 18.99 21.19 22.96 18.47 21.01 16.66 20.98 12.97 15.45 10.66	(dBm)  30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS PASS

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

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# **6DB BANDWIDTH MEASUREMENT**

# 9.1 Standard Applicable

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

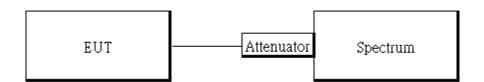
# 9.2 Measurement Equipment Used

Conducted Emission Test Site										
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.					
TYPE		NUMBER	NUMBER	CAL.						
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/08/2020	07/07/2021					
DC Block	PASTERNACK	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	MFR	MODEL	SERIAL	LAST	CAL DUE.
TYPE		NUMBER	NUMBER	CAL.	
DC Block	PASTERNACK	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_HT40 Ch0			
802.11_n	_HT20 Ch0			802.11_n	_HT40 Ch0		
802.11_n	_HT20 Ch0	Limit	Posult	802.11_n Freq.	_HT40 Ch0	Limit	Pocult
		Limit (kHz)	Result	_		Limit (kHz)	Result
Freq.	6dB BW	_	<b>Result</b> PASS	Freq.	6dB BW		<b>Result</b> PASS
Freq. (MHz)	6dB BW (kHz)	(kHz)		Freq. (MHz)	6dB BW (kHz)	(kHz)	
Freq. (MHz) 2412	6dB BW (kHz) 13920.00	( <b>kHz</b> ) > 500	PASS	Freq. (MHz) 2422	6dB BW (kHz) 35090.00	( <b>kHz</b> ) > 500	PASS
Freq. (MHz) 2412 2437	6dB BW (kHz) 13920.00 15050.00	( <b>kHz</b> ) > 500 > 500	PASS PASS	Freq. (MHz) 2422 2437	6dB BW (kHz) 35090.00 33850.00	( <b>kHz</b> ) > 500 > 500	PASS PASS
Freq. (MHz) 2412 2437 2442	6dB BW (kHz) 13920.00 15050.00 12940.00	(kHz) > 500 > 500 > 500	PASS PASS PASS	Freq. (MHz) 2422 2437 2442	6dB BW (kHz) 35090.00 33850.00 31410.00	<ul><li>(kHz)</li><li>&gt; 500</li><li>&gt; 500</li><li>&gt; 500</li></ul>	PASS PASS PASS

### 802.11 ax HE20 Ch0

	- DII	AJD DW	1.1		Ĭ				
Freq.	RU	6dB BW	Limit	Result					
(MHz)	Config	(kHz)	(kHz)	rtoodit					
2412	full	16530.00	> 500	PASS					
2412	26/0	2066.00	> 500	PASS					
2437	full	18020.00	> 500	PASS					
2437	26/0	2085.00	> 500	PASS	802.11_a	x_HE40 C	h0		
2442	full	16990.00	> 500	PASS	Freq.	RU	6dB BW	Limit	Result
2442	26/0	2078.00	> 500	PASS	(MHz)	Config	(kHz)	(kHz)	Result
2462	full	16490.00	> 500	PASS	2422	full	35780.00	> 500	PASS
2402	26/0	2089.00	> 500	PASS	2437	full	35000.00	> 500	PASS
2467	full	17530.00	> 500	PASS	2442	full	35030.00	> 500	PASS
2407	26/0	2076.00	> 500	PASS	2452	full	34890.00	> 500	PASS
2472	full	18700.00	> 500	PASS	2457	full	34970.00	> 500	PASS
2412	26/0	2051.00	> 500	PASS	2462	full	37760.00	> 500	PASS

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### Mode: Chain 1

802.11b	Ch1			802.11g Ch1				
Freq.	6dB BW	Limit	Result	Freq.	6dB BW	Limit	Result	
(MHz)	(kHz)	(kHz)	Nesuit	(MHz)	(kHz)	(kHz)	Nesuit	
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_r	_HT20 Ch1			802.11_n_HT40 Ch1					
Freq.	6dB BW	Limit	Result	Freq.	6dB BW	Limit	Result		
(MHz)	(kHz)	(kHz)	Nesuit	(MHz)	(kHz)	(kHz)	Nesuit		
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		

	_			
Freq.	RU	6dB BW	Limit	_
(MHz)	Config	(kHz)	(kHz)	ľ

802.11 ax HE20 Ch1

Freq.	RU	6dB BW	Limit	Result					
(MHz)	Config	(kHz)	(kHz)	Nesuit					
2412	full	17030.00	> 500	PASS					
2412	26/0	2086.00	> 500	PASS					
2437	full	17360.00	> 500	PASS					
2437	26/0	2091.00	> 500	PASS	802.11_a	x_HE40 C	h1		
2442	full	16630.00	> 500	PASS	Freq.	RU	6dB BW	Limit	Result
2442	26/0	2029.00	> 500	PASS	(MHz)	Config	(kHz)	(kHz)	Result
2462	full	16110.00	> 500	PASS	2422	full	36130.00	> 500	PASS
2402	26/0	2081.00	> 500	PASS	2437	full	35820.00	> 500	PASS
2467	full	18040.00	> 500	PASS	2442	full	35290.00	> 500	PASS
2407	26/0	2077.00	> 500	PASS	2452	full	35130.00	> 500	PASS
2472	full	18530.00	> 500	PASS	2457	full	36070.00	> 500	PASS
2412	26/0	2049.00	> 500	PASS	2462	full	37750.00	> 500	PASS

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Mode: MIMO

802.11_r	_HT20 Ch0			802.11_n_HT20 Ch1					
Freq.	6dB BW	Limit	Result	Freq.	6dB BW	Limit	Result		
(MHz)	(kHz)	(kHz)	. to our	(MHz)	(kHz)	(kHz)	I to ount		
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_r	_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_a	x_HE20 C	h0			802.11_ax_HE20 Ch1				
Freq.	RU	6dB BW	Limit	Result	Freq. (MHz)	RU	6dB BW	Limit	Result
(MHz)	Config	(kHz)	(kHz)	rtoodit		Config	(kHz)	(kHz)	rtooait
2412	full	17460.00	> 500	PASS	2412	full	15150.00	> 500	PASS
2412	26/0	2077.00	> 500	PASS	2412	26/0	2075.00	> 500	PASS
2437	full	17370.00	> 500	PASS	2437	full	15090.00	> 500	PASS
2437	26/0	2059.00	> 500	PASS		26/0	2062.00	> 500	PASS
2442	full	15820.00	> 500	PASS	2442	full	15570.00	> 500	PASS
2442	26/0	2081.00	> 500	PASS		26/0	2067.00	> 500	PASS
2462	full	16130.00	> 500	PASS	2462	full	15720.00	> 500	PASS
2402	26/0	2083.00	> 500	PASS	2402	26/0	2079.00	> 500	PASS
2467	full	18250.00	> 500	PASS	2467	full	17290.00	> 500	PASS
2407	26/0	2090.00	> 500	PASS	2407	26/0	2072.00	> 500	PASS
2472	full	18580.00	> 500	PASS	2472	full	18560.00	> 500	PASS
2412	26/0	2038.00	> 500	PASS	2412	26/0	2046.00	> 500	PASS

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802.11_a	802.11_ax_HE40 Ch0					802.11_ax_HE40 Ch1					
Freq.	RU	6dB BW	Limit	Result	Freq.	RU	6dB BW	Limit	Result		
(MHz)	Config	(kHz)	(kHz)	rtoodit	(MHz)	Config	(kHz)	(kHz)	rtoouit		
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		

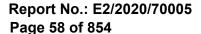
\*Refer to next page for plots

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

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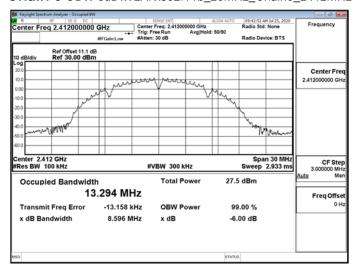
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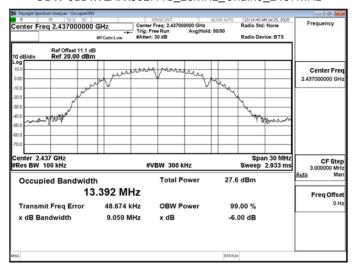




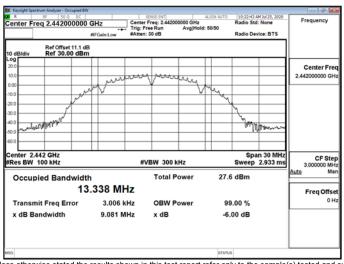
# Chain 0 OBW 6dB\WLAN\802.11b\_20MHz\_Chain0\_2412MHz



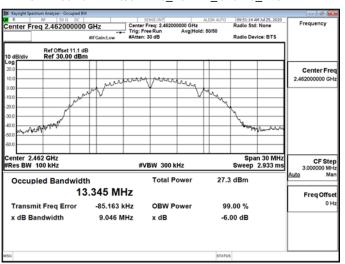
### OBW 6dB\WLAN\802.11b\_20MHz\_Chain0\_2437MHz



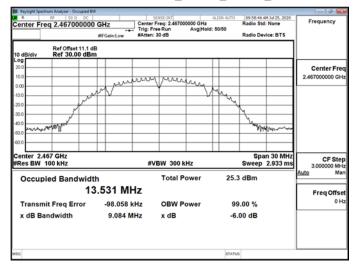
### OBW 6dB\WLAN\802.11b\_20MHz\_Chain0\_2442MHz



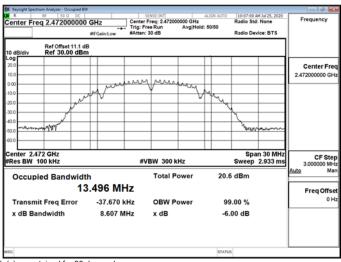
# OBW 6dB\WLAN\802.11b\_20MHz\_Chain0\_2462MHz



#### OBW 6dB\WLAN\802.11b\_20MHz\_Chain0\_2467MHz



### OBW 6dB\WLAN\802.11b\_20MHz\_Chain0\_2472MHz

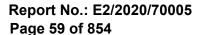


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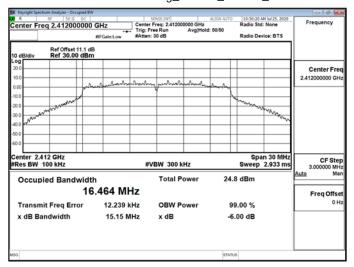
No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號

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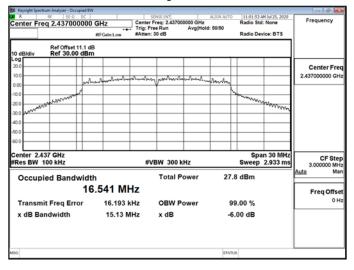




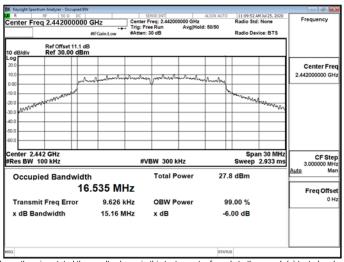
### OBW 6dB\WLAN\802.11g\_20MHz\_Chain0\_2412MHz



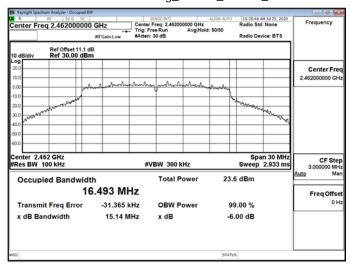
### OBW 6dB\WLAN\802.11g\_20MHz\_Chain0\_2437MHz



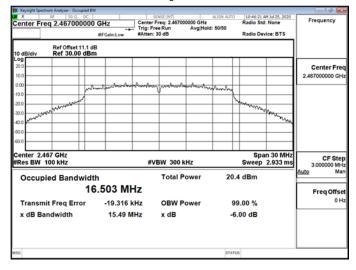
### OBW 6dB\WLAN\802.11q\_20MHz\_Chain0\_2442MHz



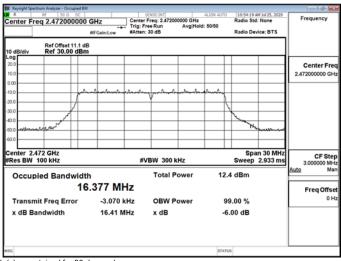
### OBW 6dB\WLAN\802.11g\_20MHz\_Chain0\_2462MHz



### OBW 6dB\WLAN\802.11g\_20MHz\_Chain0\_2467MHz

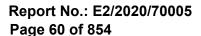


### OBW 6dB\WLAN\802.11q\_20MHz\_Chain0\_2472MHz



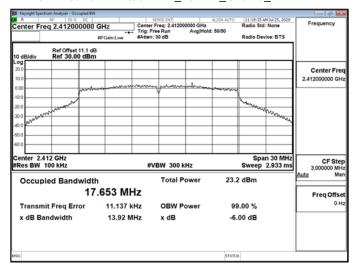
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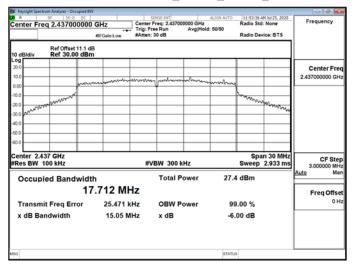




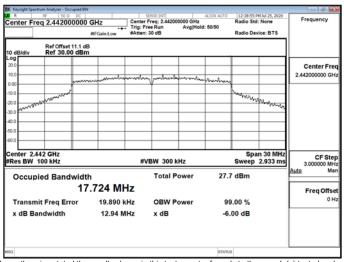
### OBW 6dB\WLAN\802.11n\_20MHz\_Chain0\_2412MHz



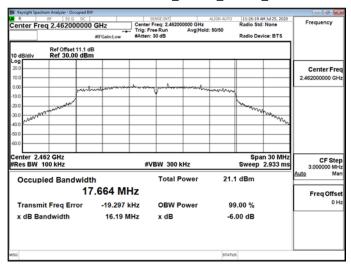
#### OBW 6dB\WLAN\802.11n\_20MHz\_Chain0\_2437MHz



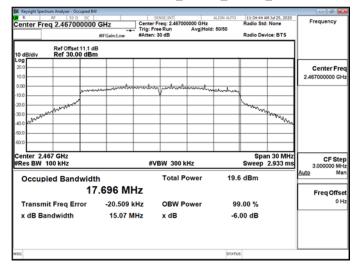
### OBW 6dB\WLAN\802.11n\_20MHz\_Chain0\_2442MHz



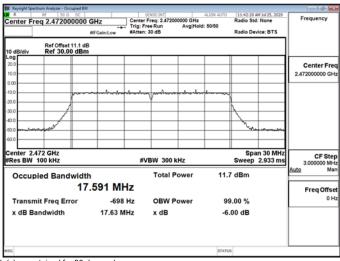
### OBW 6dB\WLAN\802.11n\_20MHz\_Chain0\_2462MHz



#### OBW 6dB\WLAN\802.11n\_20MHz\_Chain0\_2467MHz

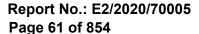


### OBW 6dB\WLAN\802.11n\_20MHz\_Chain0\_2472MHz



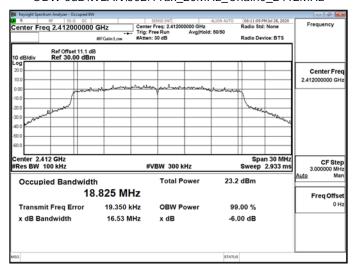
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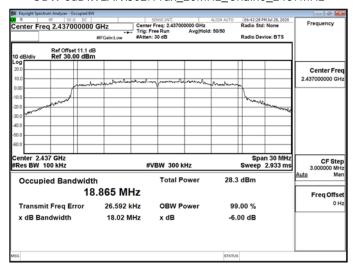




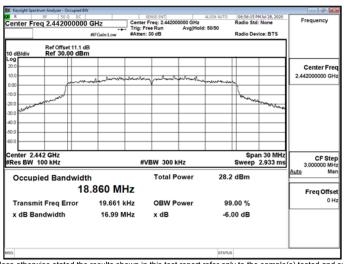
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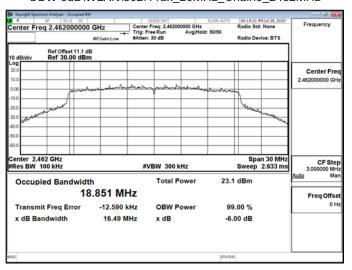
### OBW 6dB\WLAN\802.11ax\_20MHz\_Chain0\_2437MHz



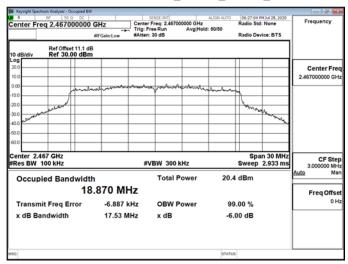
### OBW 6dB\WLAN\802.11ax\_20MHz\_Chain0\_2442MHz



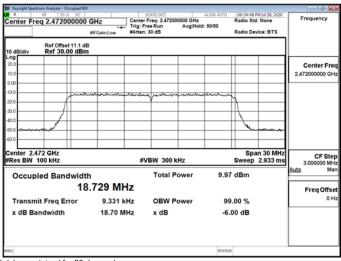
### OBW 6dB\WLAN\802.11ax\_20MHz\_Chain0\_2462MHz



### OBW 6dB\WLAN\802.11ax\_20MHz\_Chain0\_2467MHz

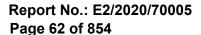


### OBW 6dB\WLAN\802.11ax\_20MHz\_Chain0\_2472MHz



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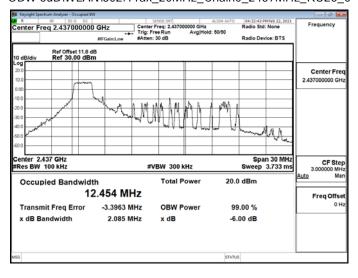




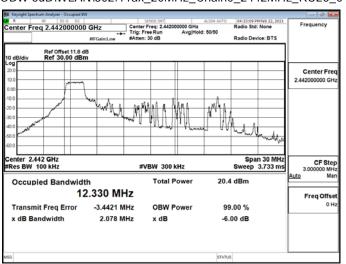
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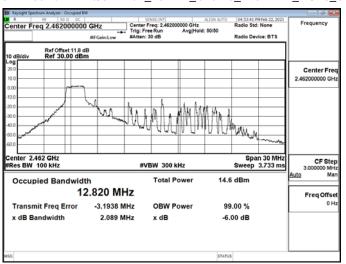
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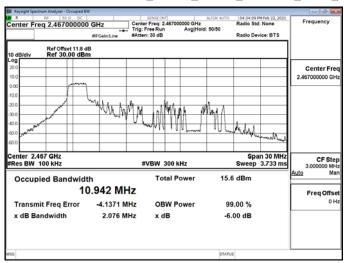
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# OBW 6dB\WLAN\802.11ax\_20MHz\_Chain0\_2462MHz\_RU26\_0



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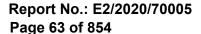


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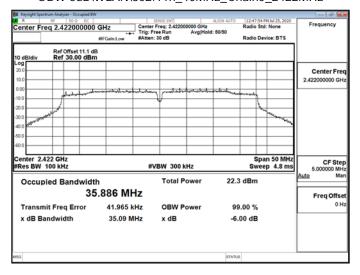
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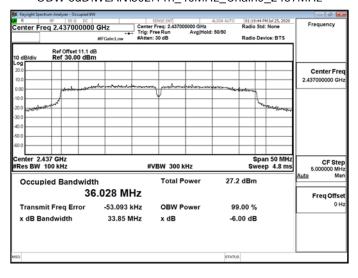




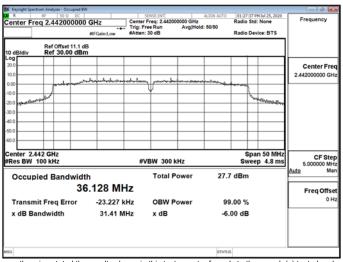
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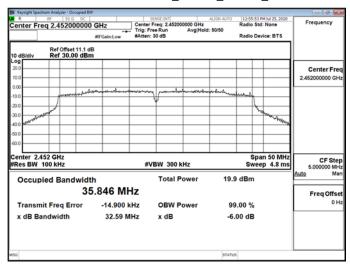
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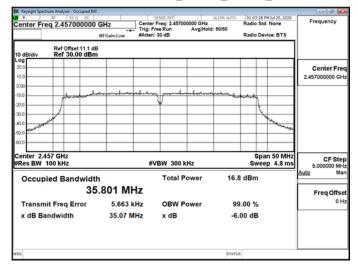
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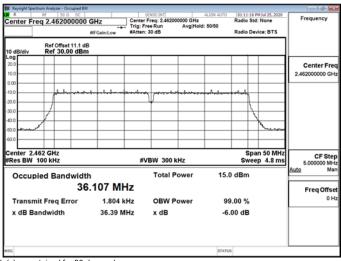
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#### OBW 6dB\WLAN\802.11n\_40MHz\_Chain0\_2457MHz

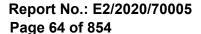


### OBW 6dB\WLAN\802.11n\_40MHz\_Chain0\_2462MHz



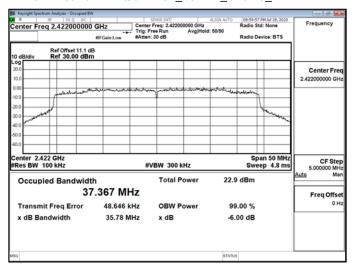
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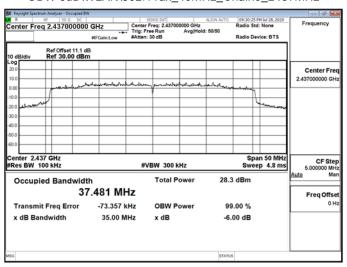




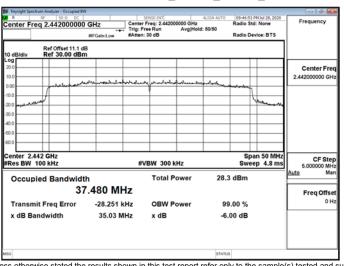
#### OBW 6dB\WLAN\802.11ax\_40MHz\_Chain0\_2422MHz



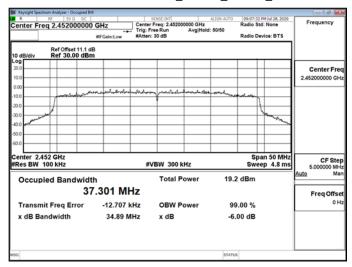
### OBW 6dB\WLAN\802.11ax\_40MHz\_Chain0\_2437MHz



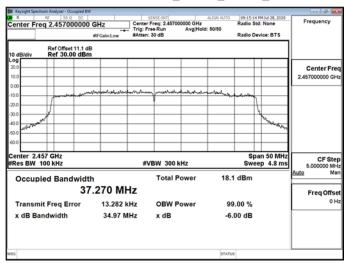
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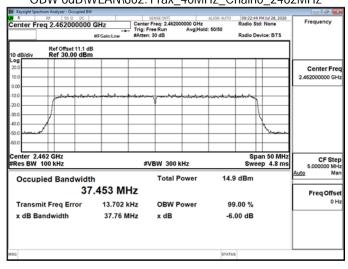
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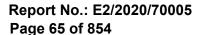


# OBW 6dB\WLAN\802.11ax\_40MHz\_Chain0\_2462MHz



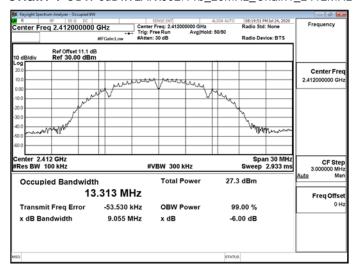
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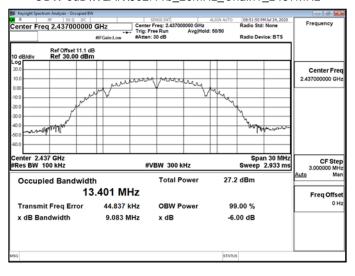




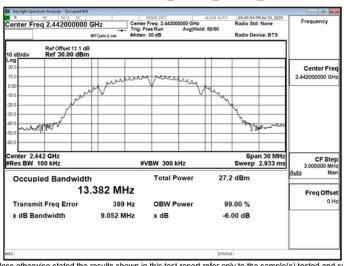
# Chain 1 OBW 6dB\WLAN\802.11b\_20MHz\_Chain1\_2412MHz



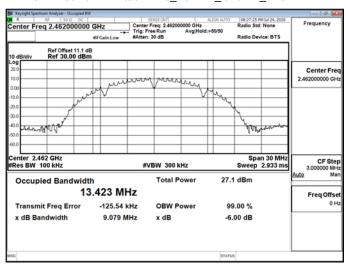
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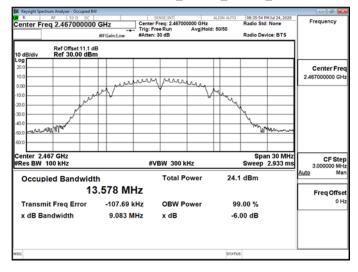
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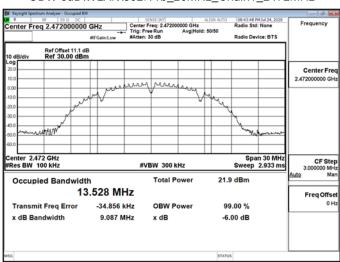
# OBW 6dB\WLAN\802.11b\_20MHz\_Chain1\_2462MHz



#### OBW 6dB\WLAN\802.11b\_20MHz\_Chain1\_2467MHz

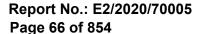


### OBW 6dB\WLAN\802.11b\_20MHz\_Chain1\_2472MHz



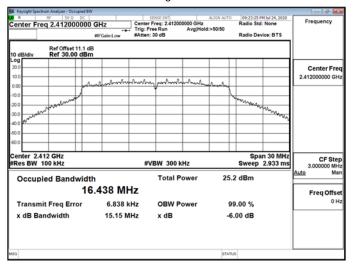
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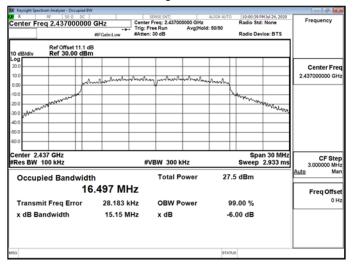




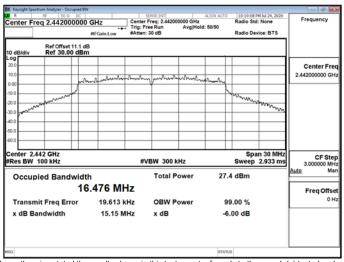
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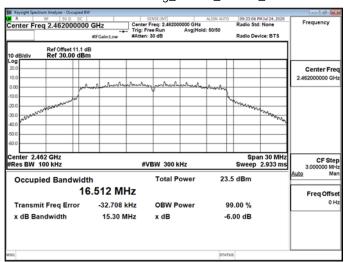
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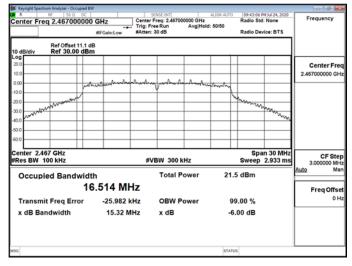
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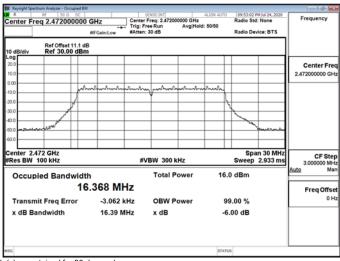
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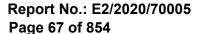


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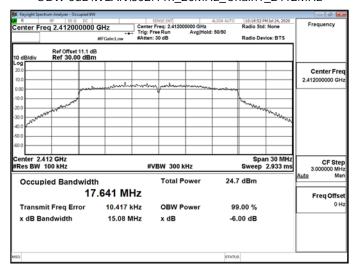
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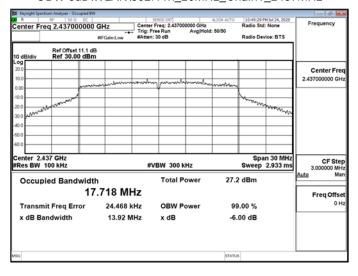




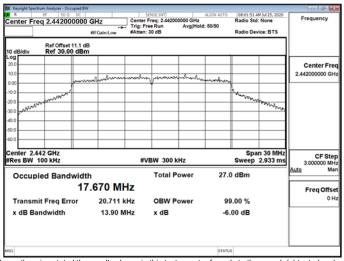
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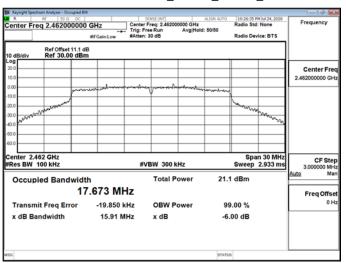
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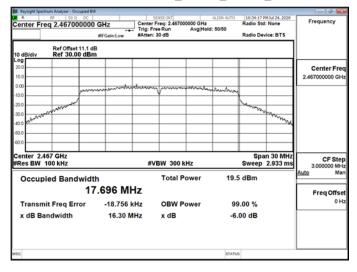
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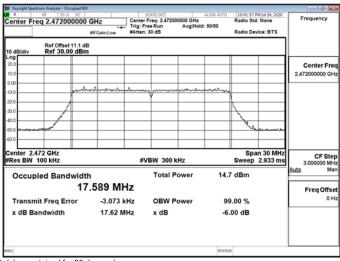
### OBW 6dB\WLAN\802.11n\_20MHz\_Chain1\_2462MHz



#### OBW 6dB\WLAN\802.11n\_20MHz\_Chain1\_2467MHz



### OBW 6dB\WLAN\802.11n\_20MHz\_Chain1\_2472MHz



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