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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.: 1958, 1959

Model Difference: The difference between 1958 and 1959 models is the C-Cover.

1958 - Config 1 and 1959 - Config 2

Report Number: E2/2020/70036

FCC ID: C3K1958

FCC Rule Part: §15.247, Cat: DTS

Issue Date: Feb. 24, 2021

Date of Test: Jul. 08, 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										
E2/2020/70036	Rev.00	Original.	Feb. 24, 2021	Revised By: Tiffany Kao						
	Timeny via									

Note:

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

2 · Disclaimer

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

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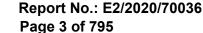




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GENERAL INFORMATION

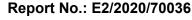
1.1 Product description

<u> </u>	
Product Name:	Portable Computing Device
Brand Name:	Microsoft
Model No.:	1958, 1959
Model Difference:	The difference between 1958 and 1959 models is the C-Cover. 1958 - Config 1 and 1959 - 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 from AC/DC Adapter

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Wi-Fi 802.11	Frequency Range	Channels	Rat	Rated Power (dBm)		
b				DSSS,		
g	2412-2472	13				
n_HT20 ax_HE20			HT / HE:	27.79(MIMO)	OFDM	
n_HT40 n_HE40	2422-2462	9	HT / HE:	27.27(MIMO)		
Modulation	type:	64QAM,	PSK, DBPSK fo 16QAM, QPSK, If for OFDMA in	BPSK for OFDM		
Transistion	Rate:	802.11 g: 802.11 n ₂ 802.11 n ₃ 802.11 ax	1/2/5.5/11 Mbp 6/9/12/18/24/36 _20MHz: 6.5 – 1 _40MHz: 13.5 – k_HE20MHz: 8 - k_HE40MHz: 16	6/48/54 Mbps 44.4Mbps 300.0Mbps -286.8 Mbps		

1.2 Antenna Designation

Antenna Type	Config	Chain 0 / Chain 1	Freq. (MHz)	Peak Antenna Gain (dBi)	Worst Antenna Gain
PIFA	Config 1	Chain 0	2412-2472	1.5	
		Chain 1	2412-2472	1.5	
	0 5 0	Chain 0	2412-2472	2.2	V
	Config 2	Chain 1	2412-2472	2.1	

Note: Pre-scanned was done on the above 4 antennas, the Config 2 cover type 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)
Chain0	2412~2472	2.2	2.15
Chain1	2412~2412	2.1	2.10

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 FCC KDB 662911 D01 Multiple Transmitter Output v02r01 ANSI C63.10:2013

1.4 Test Facility

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

FCC Designation number: TW0028

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is 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 Radiated Emission & Conduction (AC Power Line)



Fig. 2-2 Conducted (Antenna Port) Configuration 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	21.80.2.1	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 & Radiated Band Edge and Spurious Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.203 §15.247(b)	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

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

CLIANINIEI	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

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, heighest and Full RU results higher emissions.

Only one RU can be enabled at any given time.

802.11ax		20	MHz			8 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			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	106-tone RU			RU index	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 1958 and 1959 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 1959 (FCC ID: C3K1958). Highest antenna gain across the two models in each band has been considered while doing the radiated emission measurements.

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	HT0/HT8	Ch0/Ch1/MIMO				
802.11n 40M	3 to 11	6	OFDM	HT0/HT8	Ch0/Ch1/MIMO				
	RADIAT	ED EMISSIC	N TEST (ABOVI	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	HT0/HT8	Ch0/Ch1/MIMO				
802.11n 40M	3 to 11	3, 6, 9, 10, 11	OFDM	HT0/HT8	Ch0/Ch1/MIMO				

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RADIATED EMISSION TEST (ABOVE 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODU- LATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT	
	1 to 13	1		FULL RU 26/0 52/37 106/53	MCS0	Ch0/Ch1/MIMO	
802.11ax HE20		6		FULL RU	MCS0	Ch0/Ch1/MIMO	
		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.

Note:

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

4.4 Antenna Port Conducted Mesurement:

CONDUCTED TEST								
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT			
802.11b	1 to 13	1, 6, 7, 11, 12, 13	DSSS	1	Ch0/Ch1			
802.11g	1 to 13	1, 6, 7, 11, 12, 13	OFDM	6	Ch0/Ch1			
802.11n 20M	1 to 13	1, 6, 7, 11, 12, 13	OFDM	HT0/HT8	Ch0/Ch1/MIMO			
802.11n 40M	3 to 11	3, 6, 7, 9, 10, 11	OFDM	HT0/HT8	Ch0/Ch1/MIMO			

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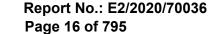
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		(CONDUCT	ED TEST		
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODU- LATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
		Pea	ık Output l	Power,EIRP		
		1, 2, 6		FULL RU 26/0 52/37 106/53	MCS0	Ch0/Ch1/MIMO
802.11ax HE20	1 to 13	7		FULL RU	MCS0	Ch0/Ch1/MIMO
		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, 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						
Polarization: Vertical	9kHz~30MHz: +-2.3dB					
	30MHz - 180MHz: +/- 3.37dB					
	180MHz -417MHz: +/- 3.19dB					
	0.417GHz-1GHz: +/- 3.19dB					
	1GHz - 18GHz: +/- 4.04dB					
	18GHz - 40GHz: +/- 4.04dB					
	9kHz~30MHz: +-2.3dB					
	30MHz - 167MHz: +/- 4.22dB					
Balad ada a Had 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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6 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 ′uV)
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				
Test Software	audix	e3	Ver. 6.11- 20180419c	N.C.R	N.C.R				

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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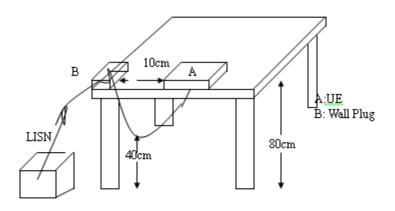
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6.4 Test SET-UP (Block Diagram of Configuration)



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

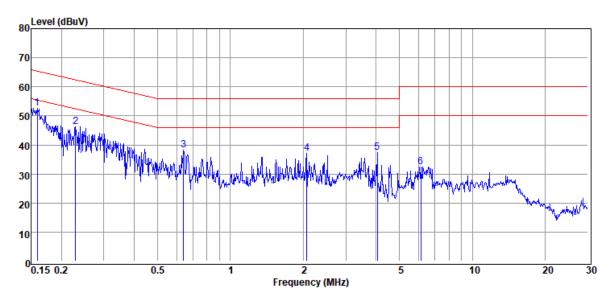
Report Number **Test Site** :Conduction Room C :E2/2020/70036

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

Power :120V/60Hz Temp./Humi. :24.3/62

Probe :L1 Engineer :Kailin

Note: :EUT Config 1

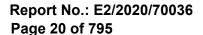


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.16	Peak	42.47	10.22	52.69	65.52	-12.83
0.23	Peak	36.03	10.22	46.25	62.48	-16.23
0.64	Peak	27.95	10.31	38.26	56.00	-17.74
2.07	Peak	26.70	10.45	37.15	56.00	-18.85
4.05	Peak	27.00	10.48	37.48	56.00	-18.52
6.12	Peak	21.90	10.57	32.47	60.00	-27.53

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Note:

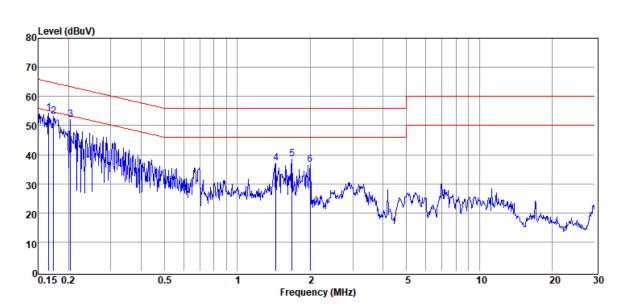
Report Number Test Site :Conduction Room C :E2/2020/70036

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

Power :120V/60Hz Temp./Humi. :24.3/62

Probe :N Engineer :Kailin

:EUT_Config 1



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.17	Peak	43.99	10.21	54.20	65.16	-10.96
0.17	Peak	42.88	10.21	53.09	64.77	-11.68
0.20	Peak	41.85	10.21	52.06	63.45	-11.39
1.44	Peak	26.76	10.44	37.20	56.00	-18.80
1.68	Peak	27.94	10.44	38.38	56.00	-17.62
2.00	Peak	25.97	10.45	36.42	56.00	-19.58

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Report Number :E2/2020/70036

Test Mode :WLAN 2.4G

Power :120V/60Hz

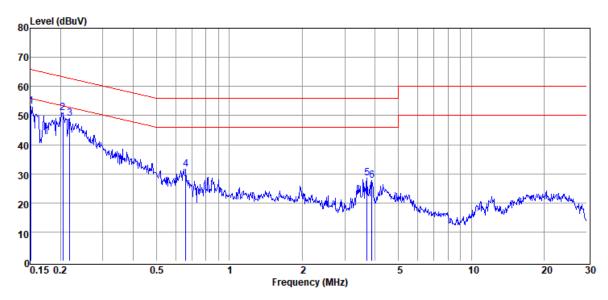
Probe :L1

Note: : EUT_Config 2 Test Site :Conduction Room C

Test Date :2020-08-14

:24.1/61 Temp./Humi.

Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.15	Peak	42.85	10.22	53.07	65.91	-12.84
0.21	Peak	40.77	10.22	50.99	63.40	-12.41
0.22	Peak	38.75	10.22	48.97	62.88	-13.91
0.66	Peak	21.16	10.31	31.47	56.00	-24.53
3.70	Peak	17.99	10.48	28.47	56.00	-27.53
3.88	Peak	17.15	10.48	27.63	56.00	-28.37

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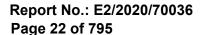
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Report Number :E2/2020/70036

Test Mode :WLAN 2.4G

Power :120V/60Hz

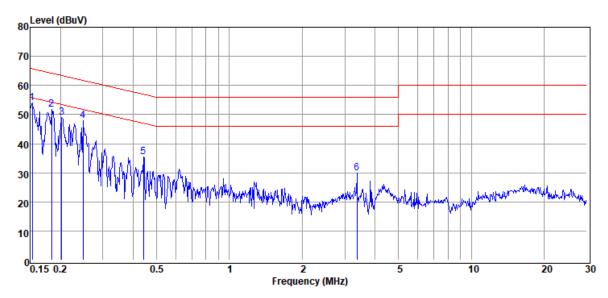
Probe :N

Note: : EUT_Config 2 Test Site :Conduction Room C

Test Date :2020-08-14

Temp./Humi. :24.1/61

Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.15	Peak	43.81	10.21	54.02	65.82	-11.80
0.18	Peak	41.50	10.21	51.71	64.28	-12.57
0.20	Peak	38.76	10.21	48.97	63.49	-14.52
0.25	Peak	37.76	10.21	47.97	61.82	-13.85
0.44	Peak	25.09	10.22	35.31	57.02	-21.71
3.36	Peak	19.54	10.48	30.02	56.00	-25.98

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Adapter 2

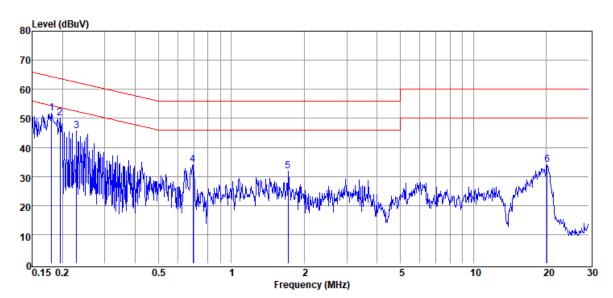
Report Number **Test Site** :Conduction Room C :E2/2020/70036

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

:120V/60Hz Temp./Humi. :23.4/65 Power

Probe :L1 Engineer :Kailin

:EUT_Config 1 Note:



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.18	Peak	41.46	10.22	51.68	64.46	-12.78
0.20	Peak	39.80	10.22	50.02	63.80	-13.78
0.23	Peak	35.58	10.22	45.80	62.48	-16.68
0.69	Peak	23.65	10.33	33.98	56.00	-22.02
1.72	Peak	21.39	10.45	31.84	56.00	-24.16
20.16	Peak	23.29	10.85	34.14	60.00	-25.86

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Report Number :E2/2020/70036

Test Mode :WLAN 2.4G

Power :120V/60Hz

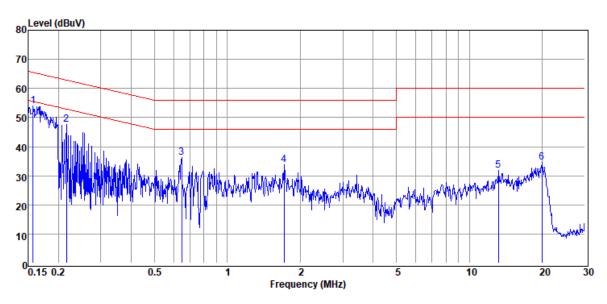
Probe :N

Note: :EUT_Config 1 **Test Site** :Conduction Room C

Test Date :2020-09-02

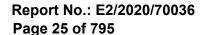
Temp./Humi. :23.4/65

Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.16	Peak	43.74	10.21	53.95	65.60	-11.65
0.22	Peak	37.46	10.21	47.67	62.96	-15.29
0.65	Peak	25.98	10.31	36.29	56.00	-19.71
1.72	Peak	23.28	10.45	33.73	56.00	-22.27
13.20	Peak	20.98	10.77	31.75	60.00	-28.25
19.95	Peak	23.88	10.86	34.74	60.00	-25.26

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Report Number :E2/2020/70036

Test Mode :WLAN 2.4G

Power :120V/60Hz

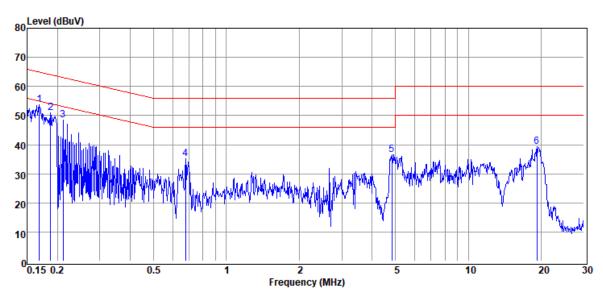
Probe :L1

Note: : EUT_Config 2 **Test Site** :Conduction Room C

Test Date :2020-09-02

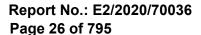
Temp./Humi. :23.6/65

Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.17	Peak	43.56	10.22	53.78	65.03	-11.25
0.19	Peak	40.74	10.22	50.96	64.15	-13.19
0.21	Peak	38.10	10.22	48.32	63.14	-14.82
0.68	Peak	24.72	10.31	35.03	56.00	-20.97
4.82	Peak	26.11	10.50	36.61	56.00	-19.39
19.22	Peak	28.35	10.84	39.19	60.00	-20.81

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Report Number :E2/2020/70036

Test Mode :WLAN 2.4G

Power :120V/60Hz

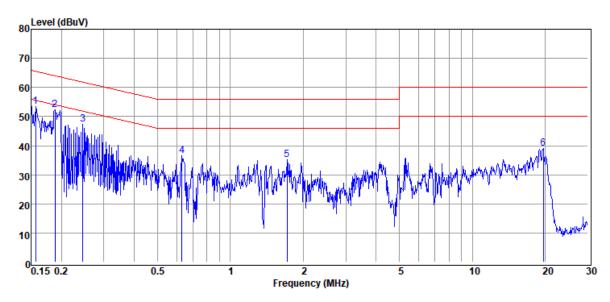
Probe :N

Note: : EUT_Config 2 **Test Site** :Conduction Room C

Test Date :2020-09-02

Temp./Humi. :23.6/65

Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.16	Peak	43.25	10.21	53.46	65.65	-12.19
0.19	Peak	42.18	10.21	52.39	64.11	-11.72
0.25	Peak	36.99	10.21	47.20	61.91	-14.71
0.63	Peak	26.22	10.28	36.50	56.00	-19.50
1.72	Peak	24.78	10.45	35.23	56.00	-20.77
19.64	Peak	28.13	10.86	38.99	60.00	-21.01

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7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 Measurement Procedure:

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

7.2 Duty Cycle:

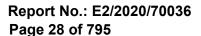
	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	99.48	0.02	0.12	0.01
802.11g	97.80	0.10	0.48	1.00
802.11n_20	99.73	0.01	0.05	0.01
802.11n_40	99.51	0.02	0.11	0.01
802.11ax_20	99.51	0.02	0.11	0.01
802.11ax_40	99.02	0.04	0.21	0.01

7.3 Duty Cycle test plots

*Refer to next page for plots

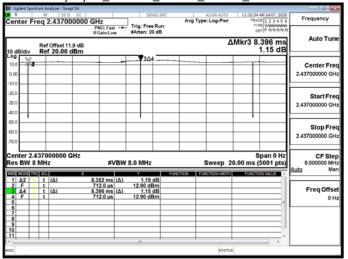
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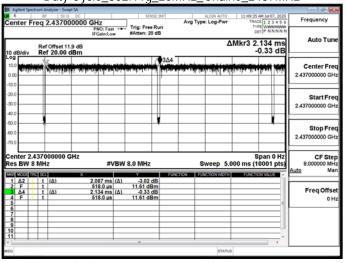




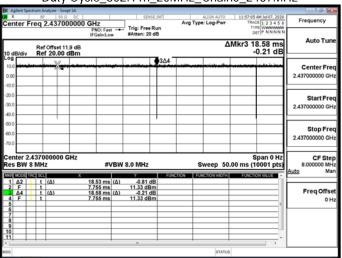
Duty Cycle_802.11b_20MHz_Chain0_2437MHz



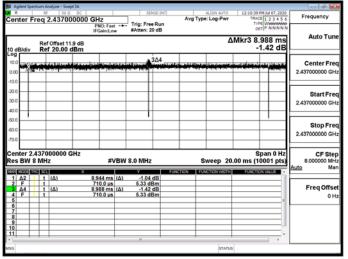
Duty Cycle_802.11g_20MHz_Chain0_2437MHz



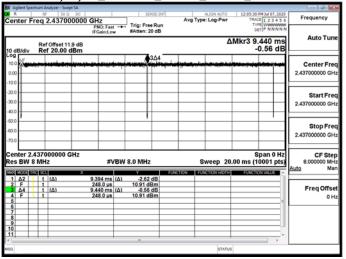
Duty Cycle_802.11n_20MHz_Chain0_2437MHz



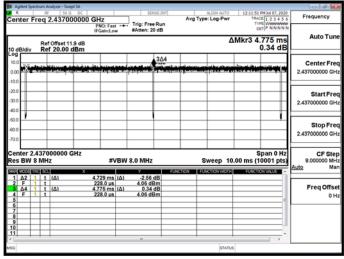
Duty Cycle_802.11n_40MHz_Chain0_2437MHz



Duty Cycle_802.11ax_20MHz_Chain0_2412MHz



Duty Cycle 802.11ax 40MHz Chain0 2422MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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.

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

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

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 power is not required.

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8.2 Measurement Equipment Used

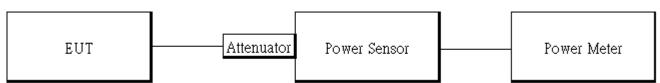
	Conducted Emission Test Site							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Power Meter	Anritsu	ML2496A	1804002	04/06/2020	04/05/2021			
Power Sensor	Anritsu	MA2411B	1726105	04/06/2020	04/05/2021			
Power Sensor	Anritsu	MA2411B	1726106	04/06/2020	04/05/2021			
Attenuator	Marvelous	WATT-218FS- 10	RF268	11/20/2019	11/19/2020			
I Pex4 Cables	Woken	00100A1H646 027	RF508	06/01/2020	05/31/2021			

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							
Attenuator	Marvelous	WATT-218FS- 10	RF19	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

СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21.36	30.00	PASS
6	2437	1	21.47	30.00	PASS
7	2442	1	21.09	30.00	PASS
11	2462	1	21.16	30.00	PASS
12	2467	1	19.57	30.00	PASS
13	2472	1	16.62	30.00	PASS
802.1	1b Ch0				
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18.88	30.00	PASS
6	2437	1	18.93	30.00	PASS
7	2442	1	18.90	30.00	PASS
11	2462	1	18.92	30.00	PASS
12	2467	1	17.94	30.00	PASS
					PASS

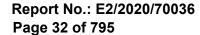
802.1	1g Ch0				
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	21.74	30.00	PASS
2	2417	6	23.36	30.00	PASS
6	2437	6	23.47	30.00	PASS
7	2442	6	23.59	30.00	PASS
10	2457	6	23.48	30.00	PASS
11	2462	6	20.66	30.00	PASS
12	2467	6	19.53	30.00	PASS
13	2472	6	17.51	30.00	PASS
802.1	1g Ch0		•	•	•
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	16.85	30.00	PASS
2	2417	6	18.92	30.00	PASS
6	2437	6	18.88	30.00	PASS
7	2442	6	18.89	30.00	PASS
10	2457	6	18.94	30.00	PASS
11	2462	6	15.72	30.00	PASS
12	2467	6	14.48	30.00	PASS
13	2472	6	7.38	30.00	PASS

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502.1	1n_HT20N	/I Ch0			
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	HT0	21.07	30.00	PASS
2	2417	HT0	23.44	30.00	PASS
6	2437	HT0	23.58	30.00	PASS
7	2442	HT0	23.72	30.00	PASS
10	2457	HT0	23.52	30.00	PASS
11	2462	HT0	20.67	30.00	PASS
12	2467	HT0	18.65	30.00	PASS
13	2472	HT0	17.25	30.00	PASS
802.1	1n_HT20N	/I Ch0			
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
CH 1			Power		RESULT PASS
	(MHz)	Rate	Power (dBm)	(dBm)	
1	(MHz)	Rate HT0	Power (dBm) 15.89	(dBm)	PASS
1 2	(MHz) 2412 2417	Rate HT0 HT0	Power (dBm) 15.89 18.86	(dBm) 30.00 30.00	PASS PASS
1 2 6	2412 2417 2437	Rate HT0 HT0 HT0	Power (dBm) 15.89 18.86 18.86	(dBm) 30.00 30.00 30.00	PASS PASS PASS
1 2 6 7	2412 2417 2437 2442	Rate HT0 HT0 HT0 HT0 HT0	Power (dBm) 15.89 18.86 18.86	(dBm) 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
1 2 6 7	2412 2417 2437 2442 2457	Rate HT0 HT0 HT0 HT0 HT0 HT0	Power (dBm) 15.89 18.86 18.86 18.89 18.90	(dBm) 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS

802.1	1n_HT40N	/I Ch0			
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	22.12	30.00	PASS
4	2427	HT0	22.82	30.00	PASS
5	2432	HT0	23.42	30.00	PASS
6	2437	HT0	23.76	30.00	PASS
7	2442	HT0	23.94	30.00	PASS
8	2447	HT0	22.96	30.00	PASS
9	2452	HT0	18.62	30.00	PASS
10	2457	HT0	17.07	30.00	PASS
11	2462	HT0	17.14	30.00	PASS
802.1	1n_HT40N	/I Ch0		•	•
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	15.91	30.00	PASS
4	2427	HT0	17.45	30.00	PASS
5	2432	HT0	18.48	30.00	PASS
6	2437	HT0	18.89	30.00	PASS
7	2442	HT0	18.04	30.00	PASS
8	2447	HT0	17.33	30.00	PASS
9	2452	HT0	12.95	30.00	PASS
10	2457	HT0	9.97	30.00	PASS
11	2462	HT0	6.91	30.00	PASS

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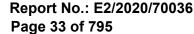
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СН	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	22.18	30.00	PASS
1	2412	MCS 0	26/0	22.86	30.00	PASS
'		IVICSU	52/37	22.76	30.00	PASS
			106/53	22.82	30.00	PASS
			full	23.57	30.00	PASS
2	2417	MCS 0	26/0	23.33	30.00	PASS
2	2417	IVICSU	52/37	23.35	30.00	PASS
			106/53	23.37	30.00	PASS
6			full	23.77	30.00	PASS
	2437	MCS 0	26/0	23.33	30.00	PASS
		IVICSU	52/37	23.35	30.00	PASS
			106/53	23.37	30.00	PASS
7	2442	MCS 0	full	23.77	30.00	PASS
	2457		full	23.76	30.00	PASS
10		MCS 0	26/8	23.32	30.00	PASS
10		IVICS	52/40	23.53	30.00	PASS
			106/54	23.51	30.00	PASS
			full	19.63	30.00	PASS
11	2462	MCS 0	26/8	24.63	30.00	PASS
11	2402	IVICSU	52/40	24.82	30.00	PASS
			106/54	21.12	30.00	PASS
			full	17.72	30.00	PASS
12	2467	MCS 0	26/8	24.29	30.00	PASS
12	Z40 <i>1</i>	IVICSU	52/40	24.61	30.00	PASS
			106/54	24.79	30.00	PASS
			full	17.37	30.00	PASS
13	2472	MCS 0	26/8	20.17	30.00	PASS
13	2412	INICSU	52/40	21.43	30.00	PASS
			106/54	21.32	30.00	PASS

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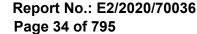
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802.1	802.11ax_HE20M Ch0						
СН	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Limit (dBm)	RESULT	
	2412	MCS 0	full	16.85	30.00	PASS	
1			26/0	17.47	30.00	PASS	
I			52/37	17.91	30.00	PASS	
			106/53	18.23	30.00	PASS	
	2417	MCS 0	full	18.55	30.00	PASS	
2			26/0	18.59	30.00	PASS	
			52/37	18.73	30.00	PASS	
			106/53	18.76	30.00	PASS	
	2437	MCS 0	full	18.89	30.00	PASS	
6			26/0	18.91	30.00	PASS	
U			52/37	18.86	30.00	PASS	
			106/53	18.91	30.00	PASS	
7	2442	MCS 0	full	18.86	30.00	PASS	
		MCS 0	full	18.81	30.00	PASS	
10	2457		26/8	18.53	30.00	PASS	
10			52/40	18.75	30.00	PASS	
			106/54	18.84	30.00	PASS	
	2462	MCS 0	full	14.48	30.00	PASS	
11			26/8	13.46	30.00	PASS	
' '			52/40	14.47	30.00	PASS	
			106/54	16.23	30.00	PASS	
	2467	MCS 0	full	12.47	30.00	PASS	
12			26/8	12.89	30.00	PASS	
12			52/40	13.18	30.00	PASS	
			106/54	14.94	30.00	PASS	
	2472	MCS 0	full	6.93	30.00	PASS	
13			26/8	7.90	30.00	PASS	
13			52/40	9.67	30.00	PASS	
Ì			106/54	9.43	30.00	PASS	

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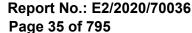
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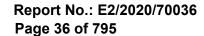




802.11ax_HE40M Ch0 Peak Output Data RU Limit Freq. **RESULT** CH Power (MHz) Confia (dBm) Rate (dBm) full 21.79 30.00 PASS 3 2422 MCS₀ 22.25 242/61 30.00 **PASS** 30.00 PASS full 22.77 4 2427 MCS₀ 242/61 23.06 30.00 **PASS** full 30.00 PASS 23.32 5 2432 MCS₀ 242/61 30.00 **PASS** 23.08 PASS 30.00 6 2437 MCS 0 full 23.83 30.00 **PASS** full 23.86 7 MCS₀ 2442 242/62 23.44 30.00 **PASS** full 22.25 30.00 **PASS** MCS₀ 8 2447 242/62 PASS 30.00 23.54 30.00 PASS full 18.69 9 MCS₀ 2452 **PASS** 242/62 22.52 30.00 full 17.26 30.00 PASS 10 2457 MCS₀ PASS 242/62 30.00 24.53 30.00 **PASS** full 17.67 MCS₀ 11 2462 **PASS** 242/62 24.32 30.00 802.11ax_HE40M Ch0 Avg. Output Freq. Data RU Limit CH Power RESULT (MHz) Rate Config (dBm) (dBm) full 15.93 30.00 **PASS** MCS₀ 3 2422 PASS 242/61 16.96 30.00 17.45 30.00 **PASS** full 4 2427 MCS₀ PASS 30.00 242/61 18.21 PASS full 18.19 30.00 MCS₀ 5 2432 PASS 242/61 18.89 30.00 2437 MCS 0 full 18.92 30.00 **PASS** 6 PASS full 18.91 30.00 7 2442 MCS₀ **PASS** 242/62 30.00 18.83 full 16.35 30.00 **PASS** 8 2447 MCS₀ 242/62 18.67 30.00 **PASS** PASS full 12.92 30.00 9 2452 MCS₀ 242/62 **PASS** 17.22 30.00 9.73 30.00 **PASS** full 10 2457 MCS₀ 242/62 14.47 30.00 PASS full 7.93 30.00 **PASS** MCS₀ 11 2462 242/62 13.93 30.00 **PASS**

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Mode: Chain 1

802.1	1b Ch1				
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	21.58	30.00	PASS
6	2437	1	24.72	30.00	PASS
7	2442	1	21.18	30.00	PASS
11	2462	1	21.39	30.00	PASS
12	2467	1	20.02	30.00	PASS
13	2472	1	16.73	30.00	PASS
802.1	1b Ch1				
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	18.94	30.00	PASS
6	2437	1	18.98	30.00	PASS
7	2442	1	18.97	30.00	PASS
11	2462	1	18.95	30.00	PASS
12	2467	1	17.45	30.00	PASS
13	2472	1	14.48	30.00	PASS

802.1	1g Ch1							
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT			
1	2412	6	22.92	30.00	PASS			
2	2417	6	23.34	30.00	PASS			
6	2437	6	23.66	30.00	PASS			
7	2442	6	23.76	30.00	PASS			
10	2457	6	23.48	30.00	PASS			
11	2462	6	21.69	30.00	PASS			
12	2467	6	18.57	30.00	PASS			
13	2472	6	18.62	30.00	PASS			
802.1	802.11g Ch1							
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT			
1	2412	6	17.96	30.00	PASS			
2	2417	6	18.97	30.00	PASS			
6	2437	6	18.96	30.00	PASS			
7	2442	6	18.98	30.00	PASS			
10	2457	6	18.98	30.00	PASS			
11	2462	6	16.72	30.00	PASS			
12	2467	6	13.73	30.00	PASS			
13	2472	6	8.95	30.00	PASS			

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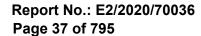
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			Deals Outered		
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	HT0	22.28	30.00	PASS
2	2417	HT0	23.36	30.00	PASS
6	2437	HT0	23.73	30.00	PASS
7	2442	HT0	23.91	30.00	PASS
10	2457	HT0	23.46	30.00	PASS
11	2462	HT0	21.47	30.00	PASS
12	2467	HT0	18.08	30.00	PASS
13	2472	HT0	17.83	30.00	PASS
302.1	1n_HT20M (Ch1			
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
CH 1	I .		Power		RESULT PASS
	(MHz)	Rate	Power (dBm)	(dBm)	
1	(MHz) 2412	Rate HT0	Power (dBm) 17.22	(dBm) 30.00	PASS
1 2	(MHz) 2412 2417	Rate HT0 HT0	Power (dBm) 17.22 18.97	(dBm) 30.00 30.00	PASS PASS
1 2 6	(MHz) 2412 2417 2437	Rate HT0 HT0 HT0	Power (dBm) 17.22 18.97 18.95	(dBm) 30.00 30.00 30.00	PASS PASS PASS
1 2 6 7	(MHz) 2412 2417 2437 2442	HTO HTO HTO HTO	Power (dBm) 17.22 18.97 18.95 18.97	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
1 2 6 7 10	(MHz) 2412 2417 2437 2442 2457	HT0 HT0 HT0 HT0 HT0 HT0 HT0	Power (dBm) 17.22 18.97 18.95 18.97	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS

802.1	1n_HT40N	/I Ch1			
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	22.48	30.00	PASS
4	2427	HT0	22.94	30.00	PASS
5	2432	HT0	23.49	30.00	PASS
6	2437	HT0	24.11	30.00	PASS
7	2442	HT0	24.17	30.00	PASS
8	2447	HT0	24.13	30.00	PASS
9	2452	HT0	19.26	30.00	PASS
10	2457	HT0	17.22	30.00	PASS
11	2462	HT0	17.29	30.00	PASS
802.1	n_HT40N	/I Ch1	·		•
СН	Freq. (MHz)	Data Rate	Avg. Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT0	16.23	30.00	PASS
4	2427	HT0	17.28	30.00	PASS
5	2432	HT0	18.38	30.00	PASS
6	2437	HT0	18.97	30.00	PASS
7	2442	HT0	18.98	30.00	PASS
8	2447	HT0	18.65	30.00	PASS
9	2452	HT0	13.48	30.00	PASS
10	2457	HT0	9.73	30.00	PASS
11	2462	HT0	6.94	30.00	PASS

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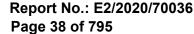
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СН	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT								
			full	22.26	30.00	PASS								
1	2412	MCS 0	26/0	23.35	30.00	PASS								
'	2412	IVIC3 U	52/37	23.27	30.00	PASS								
			106/53	22.71	30.00	PASS								
			full	23.54	30.00	PASS								
2	2417	MCS 0	26/0	23.59	30.00	PASS								
2	241/	IVICSU	52/37	23.33	30.00	PASS								
			106/53	23.35	30.00	PASS								
			full	23.73	30.00	PASS								
6	2437	MCS 0	26/0	23.86	30.00	PASS								
U	2437	IVIC3 U	52/37	23.69	30.00	PASS								
			106/53	23.57	30.00	PASS								
7	2442	MCS 0	full	23.92	30.00	PASS								
			full	23.71	30.00	PASS								
10	2457	2457	2457	MCSO	7 MCSO	MCSO	MCSO	MCSO	MCSO	MCS 0	26/8	23.85	30.00	PASS
10		o/ INICSU	52/40	23.32	30.00	PASS								
			106/54	23.38	30.00	PASS								
			full	21.27	30.00	PASS								
11	2462	MCS 0	26/8	24.76	30.00	PASS								
11	2402	IVICOU	52/40	24.47	30.00	PASS								
			106/54	25.18	30.00	PASS								
			full	18.24	30.00	PASS								
12	2467	MCS 0	26/8	24.14	30.00	PASS								
12	2407	IVICOU	52/40	24.52	30.00	PASS								
			106/54	24.72	30.00	PASS								
			full	19.22	30.00	PASS								
13	2472	MCS 0	26/8	20.62	30.00	PASS								
13	2412	INICOU	52/40	20.28	30.00	PASS								
			106/54	20.14	30.00	PASS								

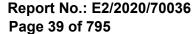
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СН	Freq. (MHz)	Data Rate	RU Config	Avg. Output Power (dBm)	Limit (dBm)	RESULT
			full	16.97	30.00	PASS
1	2412	MCS 0	26/0	18.23	30.00	PASS
'	2412	IVIC3 U	52/37	18.47	30.00	PASS
			106/53	17.74	30.00	PASS
			full	18.53	30.00	PASS
2	2417	MCS 0	26/0	18.57	30.00	PASS
2	2417	IVICSU	52/37	18.71	30.00	PASS
			106/53	18.69	30.00	PASS
			full	18.96	30.00	PASS
6	2437	MCS 0	26/0	18.97	30.00	PASS
U	2437	IVICSU	52/37	18.96	30.00	PASS
			106/53	18.93	30.00	PASS
7	2442	MCS 0	full	18.97	30.00	PASS
			full	18.60	30.00	PASS
10	2457	MCS 0	26/8	18.68	30.00	PASS
10		IVIC3 U	52/40	18.43	30.00	PASS
			106/54	18.60	30.00	PASS
			full	15.98	30.00	PASS
11	2462	MCS 0	26/8	13.73	30.00	PASS
11	2402	IVICSU	52/40	13.22	30.00	PASS
			106/54	15.47	30.00	PASS
			full	12.96	30.00	PASS
12	2467	MCS 0	26/8	14.46	30.00	PASS
12	2407	IVICSU	52/40	13.23	30.00	PASS
			106/54	14.23	30.00	PASS
			full	8.48	30.00	PASS
13	2472	MCS 0	26/8	7.95	30.00	PASS
13	24/2	IVICSU	52/40	7.70	30.00	PASS
			106/54	7.48	30.00	PASS

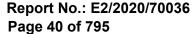
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СН	Freq. (MHz)	Data Rate	RU Config	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS 0	full	22.16	30.00	PASS
J	2422	IWICS	242/61	21.92	30.00	PASS
4	2427	MCS 0	full	23.36	30.00	PASS
7	2427	IVICS	242/61	23.29	30.00	PASS
5	2432	MCS 0	full	23.76	30.00	PASS
J	2432	IWICS	242/61	23.41	30.00	PASS
6	2437	MCS 0	full	24.27	30.00	PASS
7	2442	MCS 0	full	24.15	30.00	PASS
,	2442	IWICS	242/62	23.55	30.00	PASS
8	2447	MCS 0	full	24.30	30.00	PASS
0	2447	IVICS	242/62	23.58	30.00	PASS
9	2452	MCS 0	full	19.67	30.00	PASS
7	2432	IVICSU	242/62	21.39	30.00	PASS
10	2457	MCS 0	full	16.14	30.00	PASS
10	2437	IVICSU	242/62	24.31	30.00	PASS
11	2462	MCS 0	full	18.41	30.00	PASS
11	2462	INICSU	242/62	22.32	30.00	PASS
υZ. I	1ax_HE40	OM Ch1			1	1
CH	Freq. (MHz)	DM Ch1 Data Rate	RU Config	Avg. Output Power	Limit (dBm)	RESULT
	Freq.	Data		Power (dBm)	(dBm)	RESULT
	Freq.	Data	full	Power (dBm) 15.97	(dBm) 30.00	PASS
СН	Freq. (MHz)	Data Rate	full 242/61	Power (dBm) 15.97 16.43	(dBm) 30.00 30.00	PASS PASS
СН	Freq. (MHz)	Data Rate	full 242/61 full	Power (dBm) 15.97 16.43 18.37	(dBm) 30.00 30.00 30.00	PASS PASS PASS
CH 3	Freq. (MHz)	Data Rate MCS 0	full 242/61 full 242/61	Power (dBm) 15.97 16.43 18.37 18.71	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
CH 3	Freq. (MHz)	Data Rate MCS 0	full 242/61 full 242/61 full full	Power (dBm) 15.97 16.43 18.37 18.71 18.83	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS
3 4 5	Freq. (MHz) 2422 2427 2432	Data Rate MCS 0 MCS 0	full 242/61 full 242/61 full 242/61	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78	30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS
3 4	Freq. (MHz) 2422 2427	Data Rate MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full 242/61 full	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98	30.00 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS
3 4 5	Freq. (MHz) 2422 2427 2432	Data Rate MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full full full	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97	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	Freq. (MHz) 2422 2427 2432 2437	Data Rate MCS 0 MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full 242/61 full full full 242/62	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97 18.76	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	Freq. (MHz) 2422 2427 2432 2437	Data Rate MCS 0 MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full full 242/62 full	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97 18.76 18.96	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	Freq. (MHz) 2422 2427 2432 2437 2442	Data Rate MCS 0 MCS 0 MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full full 242/62 full 242/62	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97 18.76 18.96 18.83	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	Freq. (MHz) 2422 2427 2432 2437 2442 2447	Data Rate MCS 0 MCS 0 MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full full 242/62 full 242/62 full full full 242/62 full 242/62	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97 18.76 18.96 18.83 13.73	(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 8	Freq. (MHz) 2422 2427 2432 2437 2442	Data Rate MCS 0 MCS 0 MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full 242/62 full 242/62 full 242/62	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97 18.76 18.96 18.83 13.73 15.92	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
CH 3 4 5 6 7 8	Freq. (MHz) 2422 2427 2432 2437 2442 2447 2452	Data Rate MCS 0 MCS 0 MCS 0 MCS 0 MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full 242/62 full 242/62 full 242/62 full 242/62 full 242/62 full 242/62 full	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97 18.76 18.96 18.83 13.73 15.92 8.73	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
CH 3 4 5 6 7 8	Freq. (MHz) 2422 2427 2432 2437 2442 2447	Data Rate MCS 0 MCS 0 MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full 242/62 full 242/62 full 242/62 full 242/62 full 242/62	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97 18.76 18.96 18.83 13.73 15.92 8.73 14.42	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
CH 3 4 5 6 7 8	Freq. (MHz) 2422 2427 2432 2437 2442 2447 2452	Data Rate MCS 0 MCS 0 MCS 0 MCS 0 MCS 0 MCS 0	full 242/61 full 242/61 full 242/61 full 242/62 full 242/62 full 242/62 full 242/62 full 242/62 full 242/62 full	Power (dBm) 15.97 16.43 18.37 18.71 18.83 18.78 18.98 18.97 18.76 18.96 18.83 13.73 15.92 8.73	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

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Mode: MIMO

802.1	1n_HT20N	M MIMO					
СН	Freq. (MHz)	Data Rate	Peak Output Power (dBm) Total Peak Output Power (dBm) (dBm)		Limit (dBm)	RESULT	
			CH 1	CH 0	(ubiii)		
1	2412	HT8	20.94	21.11	24.04	30.00	PASS
2	2417	HT8	23.26	23.52	26.40	30.00	PASS
6	2437	HT8	23.55	23.72	26.65	30.00	PASS
7	2442	HT8	23.63	23.74	26.70	30.00	PASS
10	2457	HT8	23.47	23.79	26.64	30.00	PASS
11	2462	HT8	17.48	17.67	20.59	30.00	PASS
12	2467	HT8	17.77	18.13	20.96	30.00	PASS
13	2472	HT8	17.76	17.97	20.88	30.00	PASS
802.1	n_HT201	M MIMO					•
			Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	Po	wer	include tune up	Limit	RESULT
CIT	(MHz)	Rate	(dE	3m)	tolerance Power	(dBm)	KLJULI
			CH 1	CH 0	(dBm)		
1	2412	HT8	15.83	15.97	18.92	30.00	PASS
2	2417	HT8	18.85	18.94	21.92	30.00	PASS
6	2437	HT8	18.81	18.95	21.90	30.00	PASS
7	2442	HT8	18.86	18.96	21.93	30.00	PASS
10	2457	HT8	18.85	18.96	21.93	30.00	PASS
11	2462	HT8	12.39	12.48	15.46	30.00	PASS
12	2467	HT8	12.84	12.97	15.93	30.00	PASS
13	2472	HT8	7.98	7.81	10.92	30.00	PASS

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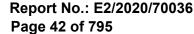
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002.1	1n_HT40N	// MIMO					
СН	Freq. (MHz)	Data Rate	Po	Output wer Bm) CH 0	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	HT8	19.64	19.88	22.77	30.00	PASS
4	2427	HT8	22.66	22.74	25.71	30.00	PASS
5	2432	HT8	23.29	23.58	26.45	30.00	PASS
6	2437	HT8	23.81	23.97	26.90	30.00	PASS
7	2442	HT8	23.06	23.25	26.17	30.00	PASS
8	2447	HT8	22.18	22.49	25.35	30.00	PASS
9	2452	HT8	18.36	18.61	21.50	30.00	PASS
10	2457	HT8	16.82	17.15	20.00	30.00	PASS
11	2462	HT8	17.11	17.42	20.28	30.00	PASS
802.1	1n_HT40N	MIMO	-				
			Avg. 0	Output	Max. Avg. Output		
СН	Freq.	Data	Po	wer	include tune up	Limit	RESULT
011	(MHz)	Rate	•	3m)	tolerance Power	(dBm)	KESSE
			CH1	CH 0	(dBm)		
3	2422	HT8	13.81	13.96	16.92	30.00	PASS
4	2427	HT8	17.32	17.38	20.38	30.00	PASS
5	2432	HT8	18.37	18.45	21.44	30.00	PASS
6	2437	HT8	18.84	18.96	21.93	30.00	PASS
7	2442	HT8	17.68	17.75	20.75	30.00	PASS
8	2447	HT8	16.49	16.55	19.55	30.00	PASS
9	2452	HT8	12.85	12.96	15.94	30.00	PASS
9							
10	2457	HT8	9.62	9.73	12.71	30.00	PASS

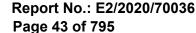
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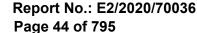




802.11ax_HE20M MIMO Peak Output **Total Peak** RU Freq. Data Power Limit CH **Output Power RESULT** Config (dBm) (MHz) Rate (dBm) (dBm) CH 1 CH 0 **PASS** full 18.42 18.76 21.60 30.00 PASS 26/0 21.91 22.07 25.00 30.00 2412 MCS₀ 1 PASS 52/37 21.68 30.00 21.76 24.73 106/53 24.38 27.49 30.00 PASS 24.57 **PASS** full 23.77 23.84 30.00 26.82 26/0 24.19 24.37 27.29 30.00 **PASS** 2 2417 MCS₀ PASS 52/37 21.89 21.96 24.94 30.00 PASS 106/53 22.11 22.17 25.15 30.00 full 23.88 23.97 26.94 30.00 PASS **PASS** 20.97 21.09 24.04 30.00 26/0 2437 MCS₀ 6 52/37 24.41 30.00 **PASS** 21.26 21.53 PASS 106/53 22.27 22.44 25.37 30.00 PASS MCS0 30.00 2442 full 23.82 23.96 26.90 7 full 23.78 23.96 26.88 30.00 **PASS** 26/8 20.82 20.94 23.89 30.00 **PASS** 10 2457 MCS₀ 52/40 22.18 22.36 25.28 30.00 **PASS** 30.00 PASS 106/54 22.15 25.27 22.36 PASS 19.34 19.55 22.46 30.00 full 26/8 24.45 24.58 27.53 30.00 **PASS** MCS0 2462 11 52/40 24.17 30.00 PASS 24.33 27.26 106/54 21.21 21.34 24.29 30.00 **PASS PASS** 15.91 19.03 30.00 full 16.12 **PASS** 22.15 30.00 26/8 22.68 25.43 MCS₀ 12 2467 PASS 52/40 23.42 23.61 26.53 30.00 106/54 24.67 24.89 27.79 30.00 **PASS** full 18.19 18.31 21.26 30.00 **PASS PASS** 26/8 17.46 17.85 20.67 30.00 2472 MCS0 13 52/40 19.68 19.84 22.77 30.00 **PASS** PASS 106/54 17.22 17.54 20.39 30.00

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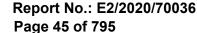




802.11ax_HE20M MIMO Avg. Output Max. Avg. Output Freq. Data RU include tune up Limit Power СН **RESULT** Config (MHz) Rate (dBm) (dBm) tolerance Power CH1 CH 0 (dBm) full 12.85 12.97 15.94 30.00 **PASS** PASS 26/0 15.88 15.95 18.95 30.00 1 2412 MCS0 30.00 **PASS** 52/37 15.88 15.94 18.94 17.95 PASS 106/53 14.86 14.97 30.00 PASS full 18.76 18.82 21.82 30.00 26/0 14.42 14.49 17.49 30.00 PASS MCS0 2 2417 52/37 **PASS** 16.35 16.43 19.42 30.00 PASS 106/53 16.88 16.94 19.94 30.00 full 16.83 16.95 21.95 30.00 PASS 19.92 30.00 **PASS** 26/0 16.83 16.95 2437 MCS0 6 52/37 16.85 16.94 19.93 30.00 **PASS** 106/53 16.88 16.94 19.94 30.00 PASS PASS 7 2442 MCS0 full 18.85 18.94 21.93 30.00 **PASS** full 18.64 18.75 21.73 30.00 26/8 16.88 16.98 19.96 30.00 **PASS** 10 2457 MCS0 PASS 52/40 16.25 16.63 19.48 30.00 PASS 106/54 16.92 19.86 30.00 16.73 PASS full 13.86 13.95 30.00 16.94 26/8 13.11 13.05 16.11 30.00 **PASS** MCS0 11 2462 **PASS** 52/40 12.85 12.97 15.94 30.00 15.87 **PASS** 106/54 15.96 18.95 30.00 full 7.39 7.46 10.46 30.00 **PASS** 13.87 13.97 30.00 **PASS** 26/8 16.95 MCS₀ 12 2467 PASS 52/40 11.37 11.46 14.45 30.00 **PASS** 106/54 13.88 13.97 16.96 30.00 PASS 9.46 30.00 full 6.37 6.48 PASS 7.89 7.93 30.00 26/8 10.94 13 2472 MCS0 PASS 52/40 6.87 6.94 9.94 30.00 **PASS** 106/54 6.89 6.95 9.95 30.00

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				Peak (Output	Total Deals		
011	Freq.	Data	RU	Po	wer	Total Peak	Limit	DEO!!!
СН	(MHz)	Rate	Config	(dE	3m)	Output Power	(dBm)	RESUL
				CH 1	ĆH 0	(dBm)	, ,	
3	2422	MCS0	full	19.94	20.11	23.04	30.00	PASS
3	2422	IVICSU	242/61	21.84	21.95	24.91	30.00	PASS
4	2427	MCS0	full	22.62	22.75	25.70	30.00	PASS
4	2427	IVICOU	242/61	22.67	22.73	25.71	30.00	PASS
5	2432	MCS0	full	22.85	23.08	25.98	30.00	PASS
J	2432	IVICOU	242/61	23.09	23.28	26.20	30.00	PASS
6	2437	MCS0	full	24.17	24.35	27.27	30.00	PASS
7	2442	MCS0	full	23.16	23.27	26.23	30.00	PASS
,	2772	IVIOSO	242/62	23.45	23.41	26.44	30.00	PASS
8	2447	MCS0	full	22.08	22.21	25.16	30.00	PASS
0	2777	101030	242/62	23.44	23.57	26.52	30.00	PASS
9	2452	MCS0	full	18.41	18.74	21.59	30.00	PASS
,	2432	IVICOU	242/62	23.21	23.11	26.17	30.00	PASS
10	2457	MCS0	full	16.29	16.46	19.39	30.00	PASS
10	2437	IVICOU	242/62	22.38	22.59	25.50	30.00	PASS
11	2462	MCS0	full	19.22	19.41	22.33	30.00	PASS
			242/62	21.15	21.32	24.25	30.00	PASS
02.1	1ax_HE40	M MIMC)					
				_	Output	Max. Avg. Output		
СН	Freq.	Data	RU	Po	wer	include tune up	Limit	RESUL
011	(MHz)	Rate	Config	(dE	-	tolerance Power	(dBm)	112002
				CH1	CH 0	(dBm)		
3	2422	MCS0	full	13.12	13.21	16.22	30.00	PASS
			242/61	16.31	16.46	19.44	30.00	PASS
4	2427	MCS0	full	16.12	16.23	19.23	30.00	PASS
			242/61	16.82	16.92	19.92	30.00	PASS
5	2432	MCS0	full	16.65	16.72	19.74	30.00	PASS
			242/61	16.89	16.97	19.98	30.00	PASS
6	2437	MCS0	full	18.81	18.96	21.94	30.00	PASS
7	2442	MCS0	full	16.68	16.87	19.83	30.00	PASS
			242/62	18.71	18.62	21.72	30.00	PASS
8	2447	MCS0	full	15.33	15.42	18.43	30.00	PASS
			242/62	18.43	18.47	21.50	30.00	PASS
9	2452	MCS0	full	11.87	11.95	14.96	30.00	PASS
-		303	242/62	17.79	18.11	21.01	30.00	PASS
10	2457	MCS0	full	8.15	8.21	11.23	30.00	PASS
	2107	11.550	242/62	10.81	11.19	14.06	30.00	PASS
	24/2	MCCO	full	6.81	6.97	9.94	30.00	PASS
11	2462	MCS0	242/62	8.27	8.35	11.36	30.00	PASS

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

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Notation

Notation

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9 6DB BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

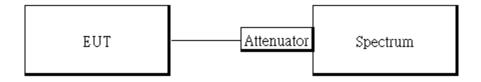
9.2 Measurement Equipment Used

Conducted Emission Test Site						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.	
TYPE		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/21/2019	11/20/2020	
DC Block	PASTER-	PE8210	RF256	11/20/2019	11/19/2020	
DC Block	NACK	F L 02 10	111 230	11/20/2019	11/19/2020	
Attenuator	Marvelous	WATT-218FS-10	RF268	11/20/2019	11/19/2020	
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/20/2019	11/19/2020	
I Pex4 Cables	Woken	00100A1H646027	RF508	06/01/2020	05/31/2021	

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.

SGS Conducted Room						
EQUIPMENT	MODEL	SERIAL	LAST	CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.		
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/20/2020	11/19/2021	
DC Block	PASTERNACK	PE8210	RF152	11/19/2020	11/18/2021	
Attenuator	Marvelous	WATT-218FS-10	RF19	11/19/2020	11/18/2021	
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/19/2020	11/18/2021	
I Pex4 Cables	Woken	00100A1H646027	RF508	06/01/2020	05/31/2021	

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 EBW,

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						
Freq.	6dB BW	Limit	Result			
(MHz)	(kHz)	(kHz)	Nesuit			
2412	8583.00	> 500	PASS			
2437	8582.00	> 500	PASS			
2442	9054.00	> 500	PASS			
2462	9050.00	> 500	PASS			
2467	9039.00	> 500	PASS			
2472	9056.00	> 500	PASS			

802 11 n HT20 Ch0

002.11_11_11120 CH0						
Freq.	6dB BW	Limit	Result			
(MHz)	(kHz)	(kHz)	Result			
2412	12560.00	> 500	PASS			
2437	15050.00	> 500	PASS			
2442	16060.00	> 500	PASS			
2462	15790.00	> 500	PASS			
2467	16550.00	> 500	PASS			
2472	17670.00	> 500	PASS			

802.11_ax_HE20 Ch0

Freq.	RU	6dB BW	Limit	Result
(MHz)	Config	(kHz)	(kHz)	Result
2412	full	17460.00	> 500	PASS
2412	26/0	2083.00	> 500	PASS
2437	full	16430.00	> 500	PASS
2431	26/0	2072.00	> 500	PASS
2442	full	17630.00	> 500	PASS
2442	26/0	2072.00	> 500	PASS
2462	full	16640.00	> 500	PASS
2402	26/0	2083.00	> 500	PASS
2467	full	18390.00	> 500	PASS
2407	26/0	2094.00	> 500	PASS
2472	full	18640.00	> 500	PASS
24/2	26/0	2044.00	> 500	PASS

802.11a Ch0

002.119 0110				
Freq.	6dB BW	Limit	Result	
(MHz)	(kHz)	(kHz)	Nesuit	
2412	15140.00	> 500	PASS	
2437	15130.00	> 500	PASS	
2442	15150.00	> 500	PASS	
2462	15140.00	> 500	PASS	
2467	15320.00	> 500	PASS	
2472	16360.00	> 500	PASS	

802.11_n_HT40 Ch0

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Result
2422	33930.00	> 500	PASS
2437	30980.00	> 500	PASS
2442	29190.00	> 500	PASS
2452	29830.00	> 500	PASS
2457	30730.00	> 500	PASS
2462	36350.00	> 500	PASS

802.11_ax_HE40 Ch0

Freq.	RU	6dB BW	Limit	Result
(MHz)	Config	(kHz)	(kHz)	Result
2422	full	34720.00	> 500	PASS
2437	full	35920.00	> 500	PASS
2442	full	31380.00	> 500	PASS
2452	full	34820.00	> 500	PASS
2457	full	36230.00	> 500	PASS
2462	full	37650.00	> 500	PASS

Note: detector (peak) and trace settings (max hold) for test plots.

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Mode: Chain 1

802.11b Ch1				
Freq.	6dB BW	Limit	Result	
(MHz)	(kHz)	(kHz)	Nesuit	
2412	9031.00	> 500	PASS	
2437	9057.00	> 500	PASS	
2442	9051.00	> 500	PASS	
2462	9069.00	> 500	PASS	
2467	9068.00	> 500	PASS	
2472	8591.00	> 500	PASS	

802.11_n	802.11_n_HT20 Ch1				
Freq.	6dB BW	Limit	Result		
(MHz)	(kHz)	(kHz)	Nesun		
2412	17631.00	> 500	PASS		
2437	17647.00	> 500	PASS		
2442	17656.00	> 500	PASS		
2462	17659.00	> 500	PASS		
2467	17663.00	> 500	PASS		
2472	17574.00	> 500	PASS		

802.11_ax_HE20 Ch1

Freq.	RU	6dB BW	Limit	Result
(MHz)	Config	(kHz)	(kHz)	Nesuit
2412	full	17810.00	> 500	PASS
2412	26/0	2082.00	> 500	PASS
2437	full	18630.00	> 500	PASS
2431	26/0	2083.00	> 500	PASS
2442	full	16550.00	> 500	PASS
2442	26/0	2075.00	> 500	PASS
2462	full	17600.00	> 500	PASS
2402	26/0	2075.00	> 500	PASS
2467	full	15930.00	> 500	PASS
2407	26/0	2068.00	> 500	PASS
2472	full	18570.00	> 500	PASS
2412	26/0	2047.00	> 500	PASS

802.11g Ch1				
Freq.	6dB BW	Limit	Result	
(MHz)	(kHz)	(kHz)	Nesuit	
2412	15150.00	> 500	PASS	
2437	15070.00	> 500	PASS	
2442	15140.00	> 500	PASS	
2462	14490.00	> 500	PASS	
2467	15140.00	> 500	PASS	
2472	16360.00	> 500	PASS	

802.11_n_HT40 Ch1					
Freq.	6dB BW	Limit	Result		
(MHz)	(kHz)	(kHz)	Nesuit		
2422	33870.00	> 500	PASS		
2437	31380.00	> 500	PASS		
2442	32530.00	> 500	PASS		
2452	32590.00	> 500	PASS		
2457	35070.00	> 500	PASS		
2462	36350.00	> 500	PASS		

802.11_ax_HE40 Ch1

Freq.	RU	6dB BW	Limit	Result
(MHz)	Config	(kHz)	(kHz)	Resuit
2422	full	35280.00	> 500	PASS
2437	full	31180.00	> 500	PASS
2442	full	31820.00	> 500	PASS
2452	full	35930.00	> 500	PASS
2457	full	34430.00	> 500	PASS
2462	full	37570.00	> 500	PASS

Note: detector (peak) and trace settings (max hold) for test plots.

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Mode: MIMO

802.11_n_HT20 Ch0					
Freq.	6dB BW	Limit	Result		
(MHz)	(kHz)	(kHz)	Nesuit		
2412	15700.00	> 500	PASS		
2437	16270.00	> 500	PASS		
2442	17550.00	> 500	PASS		
2462	15050.00	> 500	PASS		
2467	15660.00	> 500	PASS		
2472	17630.00	> 500	PASS		

802.11_n_HT20 Ch1					
Freq.	6dB BW	Limit	Result		
(MHz)	(kHz)	(kHz)	Nesuit		
2412	17170.00	> 500	PASS		
2437	15070.00	> 500	PASS		
2442	14470.00	> 500	PASS		
2462	16320.00	> 500	PASS		
2467	16530.00	> 500	PASS		
2472	17620.00	> 500	PASS		

802.11_n_HT40 Ch0

Freq.	6dB BW	Limit	Result		
(MHz)	(kHz)	(kHz)	Nesuit		
2422	35070.00	> 500	PASS		
2437	30680.00	> 500	PASS		
2442	32590.00	> 500	PASS		
2452	35050.00	> 500	PASS		
2457	35110.00	> 500	PASS		
2462	36390.00	> 500	PASS		

002. П_П_П140 СП1					
Freq.	6dB BW	Limit	Result		
(MHz)	(kHz)	(kHz)	Nesuit		
2422	35270.00	> 500	PASS		
2437	32560.00	> 500	PASS		
2442	34990.00	> 500	PASS		
2452	35110.00	> 500	PASS		
2457	35130.00	> 500	PASS		
2462	36380.00	> 500	PASS		

802.11_ax_HE20 Ch0

802.11	ax HE20 Ch1
002.11	_un_iii_zo oiii

002.11_dA_11220 0110						
Freq.	RU	6dB BW	Limit	Result	Freq.	ı
(MHz)	Config	(kHz)	(kHz)	Nesuit	(MHz)	Co
2412	full	13940.00	> 500	PASS	2412	1
2412	26/0	2074.00	> 500	PASS	2412	2
2437	full	13470.00	> 500	PASS	2437	1
2437	26/0	2071.00	> 500	PASS	2437	2
2442	full	15120.00	> 500	PASS	2442	1
	26/0	2070.00	> 500	PASS	2442	2
2462	full	15080.00	> 500	PASS	2462	1
2402	26/0	2086.00	> 500	PASS	2402	2
2467	full	15170.00	> 500	PASS	2467	1
2407	26/0	2066.00	> 500	PASS	2407	2
2472	full	18550.00	> 500	PASS	2472	1
	26/0	2045.00	> 500	PASS	2472	2

Freq.	RU	6dB BW	Limit	Result	
(MHz)	Config	(kHz)	(kHz)		
2412	full	15110.00	> 500	PASS	
2412	26/0	2073.00	> 500	PASS	
2437	full	16660.00	> 500	PASS	
2431	26/0	2067.00	> 500	PASS	
2442	full	15000.00	> 500	PASS	
	26/0	2081.00	> 500	PASS	
2462	full	15080.00	> 500	PASS	
2402	26/0	2072.00	> 500	PASS	
2467	full	13830.00	> 500	PASS	
2407	26/0	2062.00	> 500	PASS	
2472	full	18540.00	> 500	PASS	
2412	26/0	2036.00	> 500	PASS	

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802.11_ax_HE40 Ch0

802.11_ax_HE40 Ch1

<u> </u>						002
	Freq.	RU	6dB BW	Limit	Result	Fre
	(MHz)	Config	(kHz)	(kHz)	Result	(MH
	2422	full	35050.00	> 500	PASS	242
	2437	full	35060.00	> 500	PASS	243
	2442	full	32620.00	> 500	PASS	244
	2452	full	35060.00	> 500	PASS	245
	2457	full	35060.00	> 500	PASS	245
	2462	full	37510.00	> 500	PASS	246

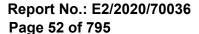
Freq.	RU	6dB BW	Limit	Result	
(MHz)	Config	(kHz)	(kHz)	Resuit	
2422	full	35080.00	> 500	PASS	
2437	full	32870.00	> 500	PASS	
2442	full	28000.00	> 500	PASS	
2452	full	35040.00	> 500	PASS	
2457	full	35160.00	> 500	PASS	
2462	full	37410.00	> 500	PASS	

Note: detector (peak) and trace settings (max hold) for test plots.

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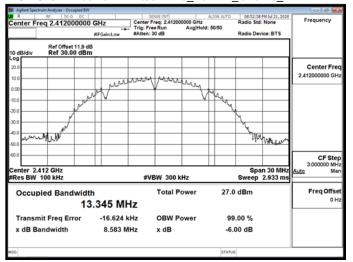
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^{*}Refer to next page for plots

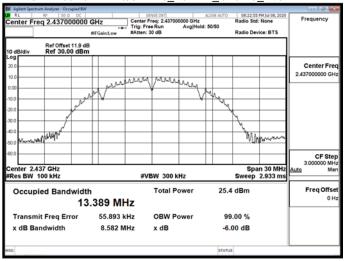




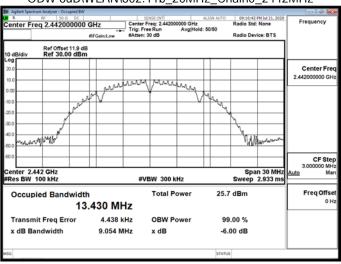
Ch0 OBW 6dB\WLAN\802.11b_20MHz_Chain0_2412MHz



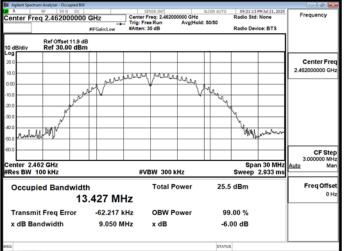
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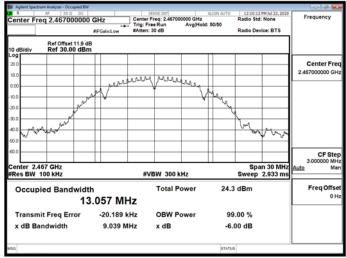
OBW 6dB\WLAN\802.11b 20MHz Chain0 2442MHz



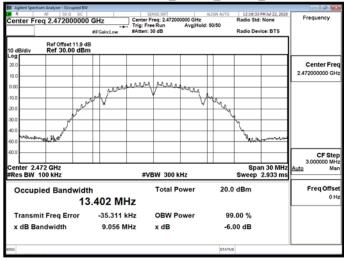
OBW 6dB\WLAN\802.11b 20MHz Chain0 2462MHz



OBW 6dB\WLAN\802.11b 20MHz Chain0 2467MHz



OBW 6dB\WLAN\802.11b_20MHz_Chain0_2472MHz

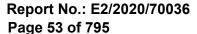


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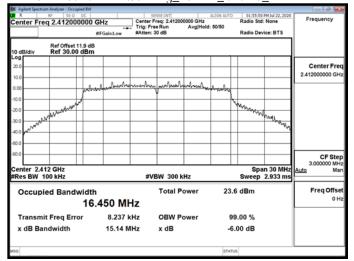
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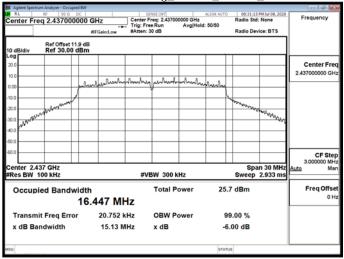




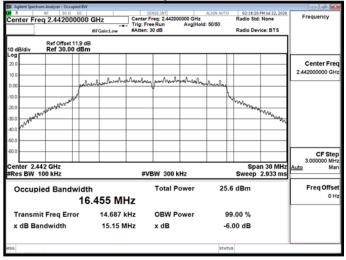
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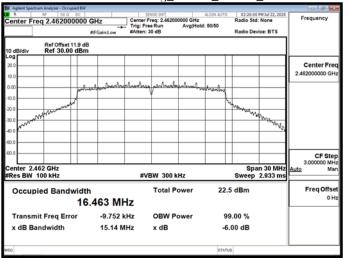
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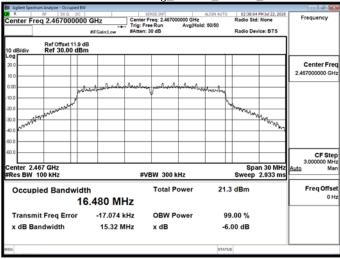
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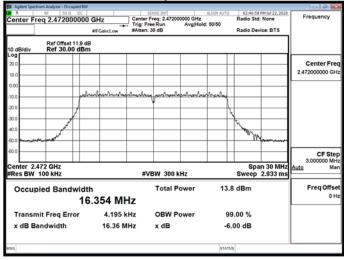
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OBW 6dB\WLAN\802.11q_20MHz_Chain0_2467MHz



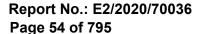
OBW 6dB\WLAN\802.11g_20MHz_Chain0_2472MHz



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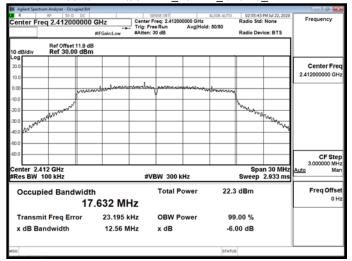
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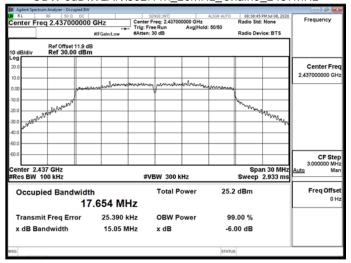




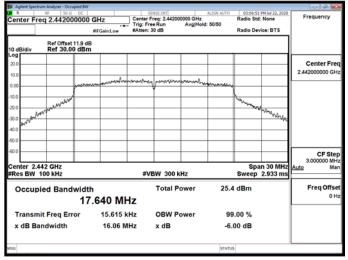
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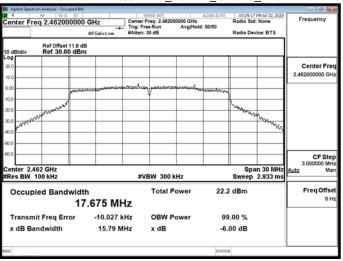
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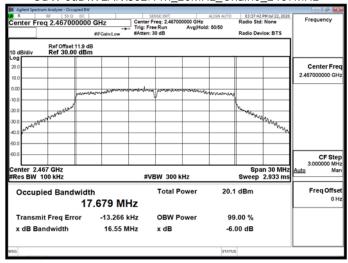
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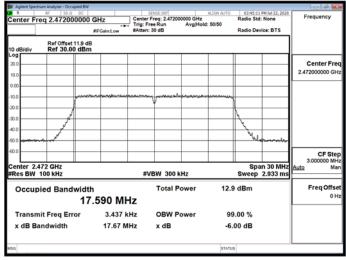
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OBW 6dB\WLAN\802.11n 20MHz Chain0 2467MHz



OBW 6dB\WLAN\802.11n_20MHz_Chain0_2472MHz

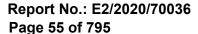


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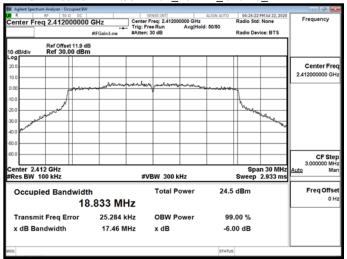
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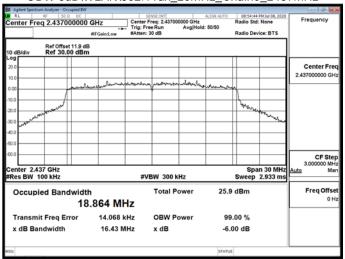




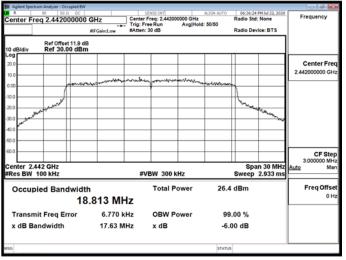
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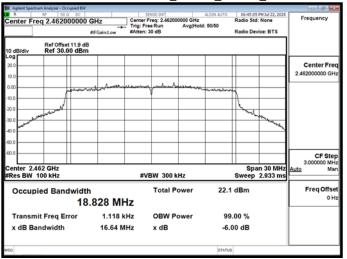
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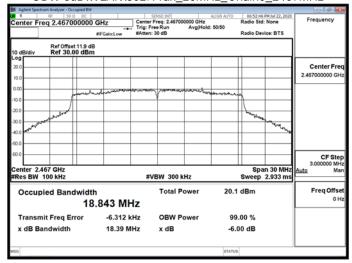
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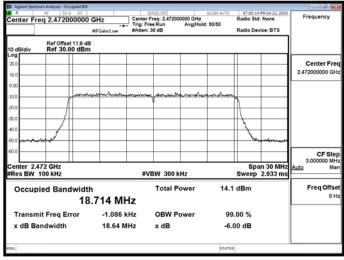
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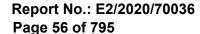
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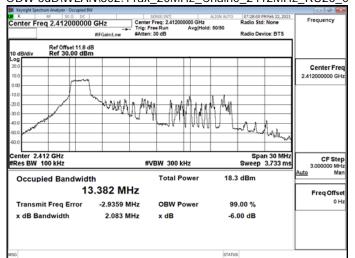
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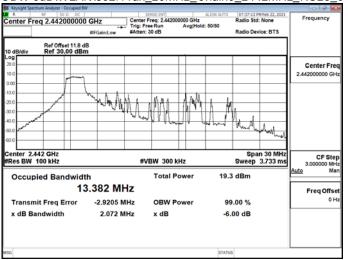
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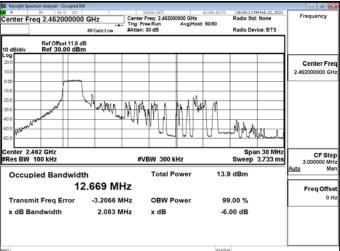
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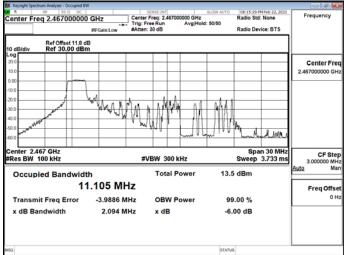
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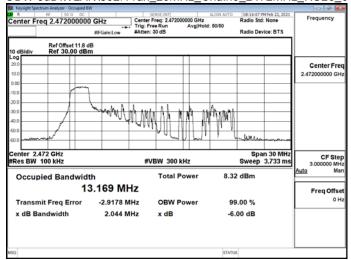
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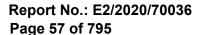
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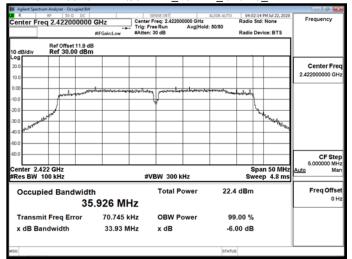
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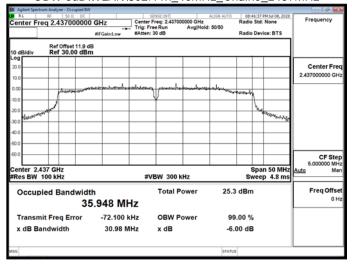




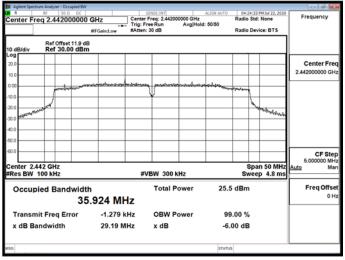
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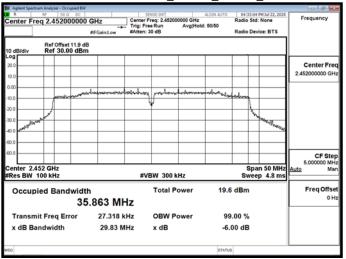
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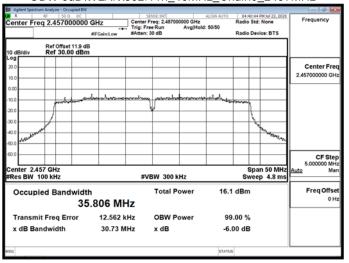
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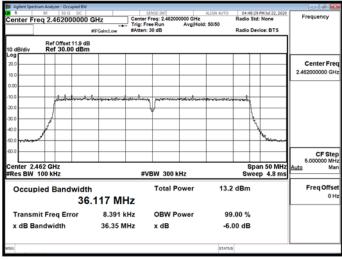
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OBW 6dB\WLAN\802.11n 40MHz Chain0 2457MHz



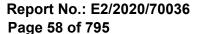
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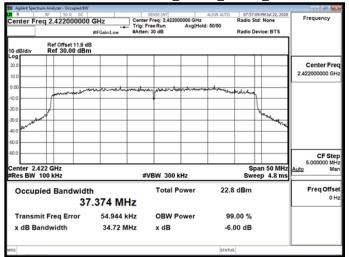
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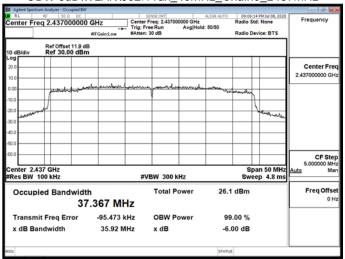




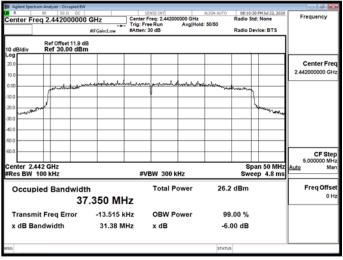
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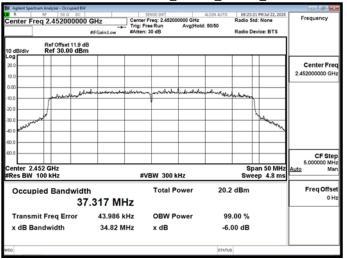
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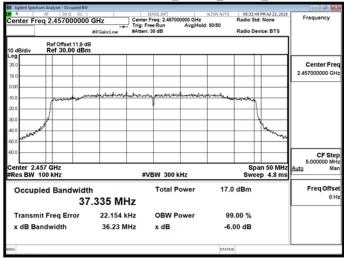
OBW 6dB\WLAN\802.11ax_40MHz_Chain0_2442MHz



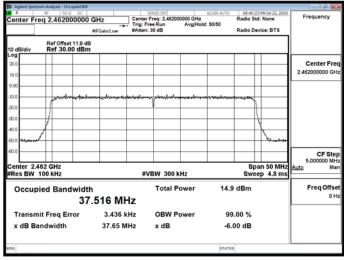
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OBW 6dB\WLAN\802.11ax_40MHz_Chain0_2457MHz



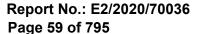
OBW 6dB\WLAN\802.11ax_40MHz_Chain0_2462MHz



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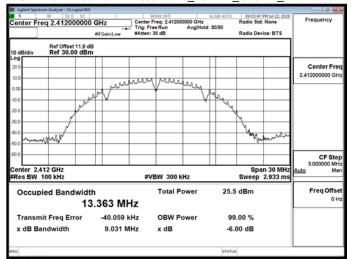
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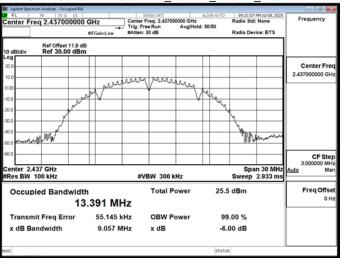




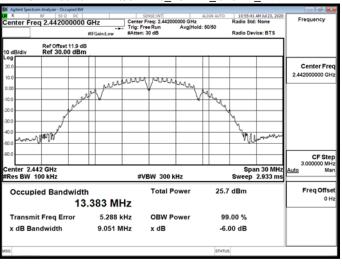
Ch1 OBW 6dB\WLAN\802.11b_20MHz_Chain1_2412MHz



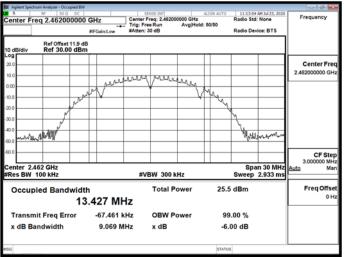
OBW 6dB\WLAN\802.11b 20MHz Chain1 2437MHz



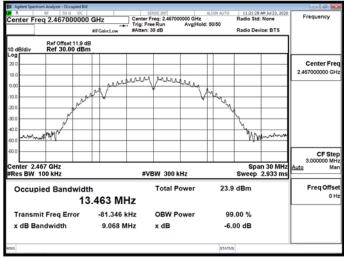
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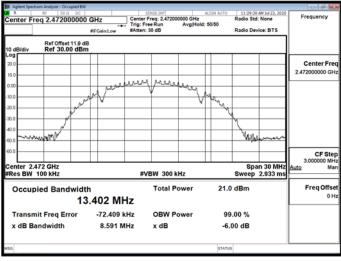
OBW 6dB\WLAN\802.11b_20MHz_Chain1_2462MHz



OBW 6dB\WLAN\802.11b_20MHz_Chain1_2467MHz

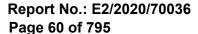


OBW 6dB\WLAN\802.11b_20MHz_Chain1_2472MHz



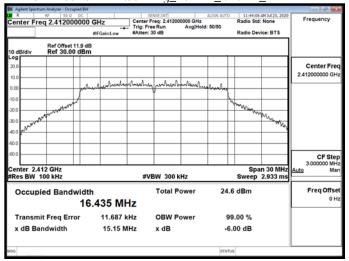
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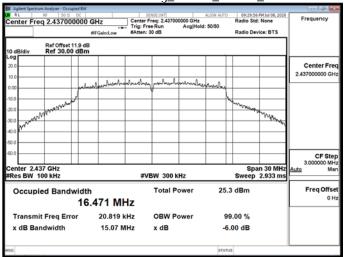




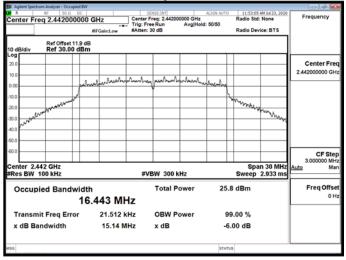
OBW 6dB\WLAN\802.11g 20MHz Chain1 2412MHz



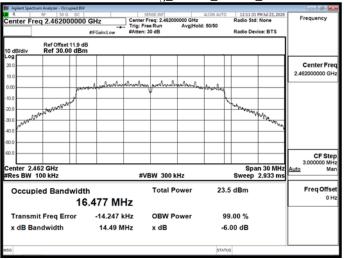
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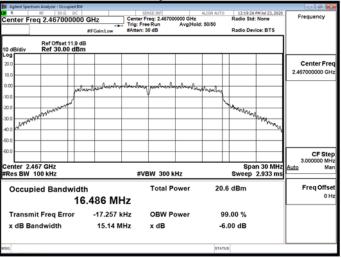
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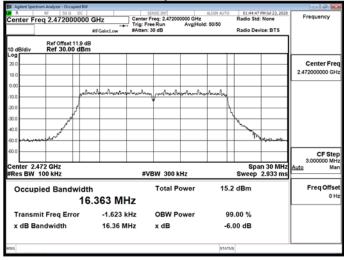
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OBW 6dB\WLAN\802.11g_20MHz_Chain1_2467MHz



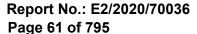
OBW 6dB\WLAN\802.11g_20MHz_Chain1_2472MHz



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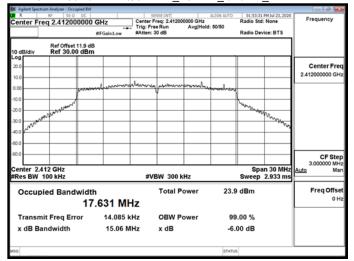
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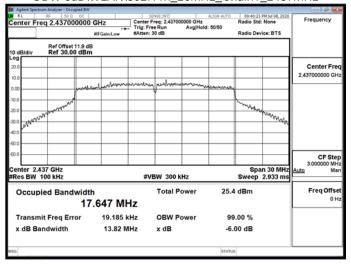




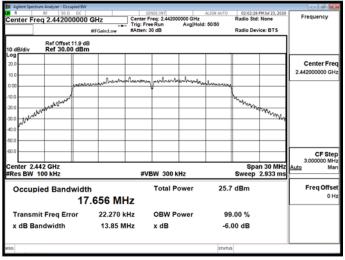
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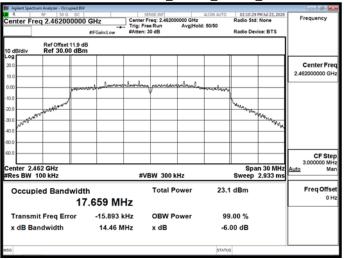
OBW 6dB\WLAN\802.11n 20MHz Chain1 2437MHz



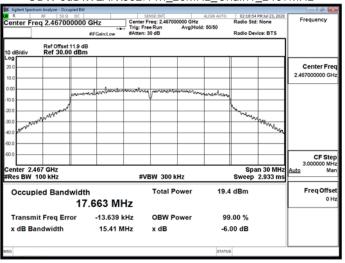
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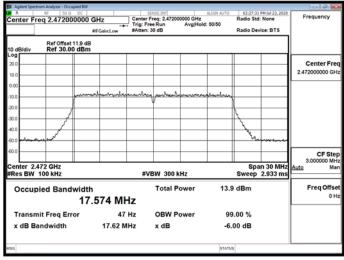
OBW 6dB\WLAN\802.11n_20MHz_Chain1_2462MHz



OBW 6dB\WLAN\802.11n 20MHz Chain1 2467MHz



OBW 6dB\WLAN\802.11n_20MHz_Chain1_2472MHz



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