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ELECTROMAGNETIC EMISSIONS CLASS II PERMISSIVE CHANGE REPORT





FCC Applicant: Acer Incorporated

8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City

22181, Taiwan (R.O.C)

FCC Manufacturer: Qunata Computer Inc.

211 Wen Hwa 2nd Rd., Kueishan, Taoyuan 33377, Taiwan

Product Name: 2TX 11ax (WiFi6) + BLE Combo Card

Brand Name: acer

Model No.: MT7921

Report Number: E2/2022/10060

FCC ID HLZMT7921

Issue Date: Apr. 01, 2022

Date of Test: Jan. 06, 2022~Feb. 10, 2022

Date of EUT Received: Jan. 11, 2022

Approved By

Jay Lin

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 comply with FCC rule part §15.407.

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

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Revision History							
Report Number	eport Number Revision Description Issue Date Revised By Remark						
E2/2022/10060	00	Original.	Apr. 01, 2022	Yi-Shan Tsai			

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	2TX 11ax (WiFi6) + BLE Combo Card	
Brand Name:	acer	
Model No.:	MT7921	
EUT Series No.: N8K0LWW0041510F78D7600		
Power Supply:	7.7Vdc from Rechargeable Li-ion Battery Pack 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter	

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac only
	1024QAM for OFDMA in 802.11ax only
	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
	802.11 n_40MHz: 13.5 - 300 Mbps
Transition Rate:	802.11 ac_20MHz: 6.5 - 173.4 Mbps
Transition Rate.	802.11 ac_80MHz: 29.3 - 866.6 Mbps
	802.11 ax_20MHz: 8.6 - 286.8 Mbps
	802.11 ax_40MHz: 17.2 - 573.6 Mbps
	802.11 ax_80MHz: 36 - 1201 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	NB / TB mode	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain (dBi)
					5150~5250	2.88	5.89
			Main		5250~5350	2.88	5.86
			Main		5470~5725	2.83	5.83
		NB			5725~5850	2.85	5.85
					5150~5250	2.87	5.89
			Aux	- 81EABS15.G27	5250~5350	2.81	5.86
					5470~5725	2.81	5.83
PIFA	\\\\\\				5725~5850	2.82	5.85
PIFA	PIFA WNC		Main		5150~5250	2.88	5.83
					5250~5350	2.88	5.82
		TB -			5470~5725	2.91	5.69
					5725~5850	2.87	5.53
					5150~5250	2.75	5.83
			Aux		5250~5350	2.73	5.82
			Aux		5470~5725	2.44	5.69
					5725~5850	2.16	5.53

Note:

- 1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- 2. Antenna information is provided by the applicant.

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1.4 FCC

WLAN for NB

	·			,
Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/	5180~5240	4	21.44 dBm	OFDM
n_HT/	5260~5320	4	21.68 dBm	OFDM
ac_VHT/ ax_HE	5500~5720	12	21.70 dBm	OFDM
20M	5745-5825	5	22.68 dBm	OFDM
n UT	5190~5230	2	20.44 dBm	OFDMA
n_HT ac_VHT/ ax_HE 40M	5270~5310	2	20.81 dBm	OFDMA
	5510~5710	6	20.23 dBm	OFDMA
40101	5755-5795	2	20.56 dBm	OFDMA
	5210	1	15.97 dBm	OFDM
ac_VHT/	5290	1	16.98 dBm	OFDM
ax_HE 80M	5530~5690	3	19.96 dBm	OFDMA
	5775	1	19.40 dBm	OFDMA

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WLAN for TB

	<u>. </u>	VEAN 101 1E	<u></u>	
Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a/	5180~5240	4	21.44 dBm	OFDM
n_HT/	5260~5320	4	21.68 dBm	OFDM
ac_VHT/ ax_HE	5500~5720	12	21.70 dBm	OFDM
20M	5745-5825	5	22.68 dBm	OFDM
n UT	5190~5230	2	20.44 dBm	OFDMA
n_HT ac_VHT/	5270~5310	2	20.81 dBm	OFDMA
ax_HE 40M	5510~5710	6	20.23 dBm	OFDMA
40101	5755-5795	2	20.56 dBm	OFDMA
	5210	1	15.97 dBm	OFDM
ac_VHT/	5290	1	17.24 dBm	OFDMA
ax_HE 80M	5530~5690	3	19.96 dBm	OFDMA
	5775	1	19.40 dBm	OFDMA

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1.5 **Test Methodology of Applied Standards**

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	TW3702
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4	-	
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	TW0028	
(TAF code 3702)		SAC C		
(1741 COUC 3702)		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B		
	ladyuan City, Taiwan 333	Conducted C		
		Conducted D		
		Conducted E]	
		Conducted F		
		Conducted G		

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.7 **Special Accessories**

There are no special accessories used while test was conducted.

Equipment Modifications 1.8

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 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.

2.3.2 **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*6m*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:

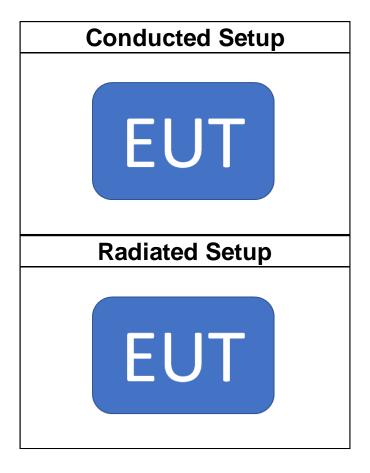
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Configuration of Tested System



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SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant

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DESCRIPTION OF TEST MODES

4.1 **Operating Frequencies**

Operated band in 5150 MHz ~5250 MHz:

Opei	ateu ba	JZJ	U IVII IZ.			
	20 M		40 M		80 M	
СН	Freq (MHz)		СН	Freq (MHz)	СН	Freq (MHz)
36	5180		38	5190	42	5210
40	5200		46	5230		
44	5220					
48	5240					

Operated band in 5250 MHz ~5350 MHz:

Operated ba					
20 M					
Freq (MHz)					
5260					
5280					
5300					
5320					

4	40 M				
СН	Freq (MHz)				
54	5270				
62	5310				

8	80 M						
СН	Freq (MHz)						
58	5290						

Operated band in 5470 MHz ~5725 MHz: 40 M

Freq

(MHz) 5510

5550

5590

5630 5670 5710 80 M

106

122

138

Freq (MHz)

5530

5610

5690

Ope	ialeu D	an	u i
2	20 M		
СН	Freq (MHz)		С
100	5500		10
104	5520		11
108	5540		11
112	5560		12
116	5580		13
120	5600		14
124	5620		
128	5640		
132	5660		
136	5680		
140	5700		
144	5720		

Operated band in 5725 MHz ~5850 MHz:

o por actor is							
2	20 M						
СН	Freq (MHz)						
149	5745						
153	5765						
157	5785						
161	5805						
165	5825						

	٠	•	· · - · · · ·		
M		40 M		8	0 M
Freq		СН	Freq (MHz)	СН	Freq (MHz)
MHz)		5	(MHz)	СП	(MHz)
5745		151	5755	155	5775
5765		159	5795		
5785					

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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 mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case. The given UE is pre-scanned among below modes.

Modulation	Tı	ransmiss	sion Chair	n	Single Transmission Spatial	Multiple Transmission Spatial
⊠ 802.11 a	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	☐ 1TX	⊠ 2TX
⊠ 802.11 ac	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	☐ SISO	⊠ MIMO
⊠ 802.11 ax	⊠ Ch0	⊠ Ch1	☐ Ch2	□ Ch3	☐ SISO	⊠ MIMO

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 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.

Offig offi	<u>e KU</u>	can be en	abled	l at any give	en i	ime.							
8 02.11ax		20	MHz			8 02.11ax			40MHz				
RU type	26	6-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 and	RU17	N/A	10	06-tone RU		RU index and	RU17	[218: 243]	1	06-tone RU			
subcarrier	RU18	N/A	RU53	[-122: -17]		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					

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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RU type 26-tone RU 52-tone RU RU0 [-499: -474] RU37 [-499: -448] RU1 [-473: -448] RU38 [-445: -394] RU2 [-445: -420] RU39 [-365: -314] RU3 [-419: -394] RU40 [-311: -260] RU4 [-392: -367] RU41 [-257: -206] RU5 [-365: -340] RU42 [-203: -152] RU6 [-339: -314] RU43 [-123: -72] RU7 [-311: -286] RU44 [-69: -18] RU8 [-285: -260] RU45 [18: 69] RU9 [-257: -232] RU46 [72: 123] RU10 [-231: -206] RU47 [152: 203] RU11 [-203: -178] RU48 [260: 257] RU12 [-177: -152] RU49 [260: 311] RU13 [-150: -125] RU50 [314: 365] RU14 [-123: -98] RU51 [394: 445] RU4 [-169: -44] 106-tone RU RU16	8 02.11ax	80MHz								
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RU index and subcarrier range RU15 [-97: -72] RU52 [448: 499] RU16 [-69: -44] 106-tone RU RU17 [-43: -18] RU53 [-499: -394] RU18 [-16: -4, 4: 16] RU54 [-365: -260] RU19 [18: 43] RU55 [-257: -152] RU20 [44: 69] RU56 [-123: -18] RU21 [72: 97] RU57 [18: 123] RU22 [98: 123] RU58 [152: 257] RU23 [125: 150] RU59 [260: 365] RU24 [152: 177] RU60 [394: 499] RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU13	[-150: -125]	RU50	[314: 365]					
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RU index and subcarrier range RU17 [-43: -18] RU53 [-499: -394] RU18 [-16: -4, 4: 16] RU54 [-365: -260] RU19 [18: 43] RU55 [-257: -152] RU20 [44: 69] RU56 [-123: -18] RU21 [72: 97] RU57 [18: 123] RU22 [98: 123] RU58 [152: 257] RU23 [125: 150] RU59 [260: 365] RU24 [152: 177] RU60 [394: 499] RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU15	[-97: -72]	RU52	[448: 499]					
subcarrier range RU18 [-16: -4, 4: 16] RU54 [-365: -260] RU19 [18: 43] RU55 [-257: -152] RU20 [44: 69] RU56 [-123: -18] RU21 [72: 97] RU57 [18: 123] RU22 [98: 123] RU58 [152: 257] RU23 [125: 150] RU59 [260: 365] RU24 [152: 177] RU60 [394: 499] RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU16	[-69: -44]	106-tone RU						
range RU19 [18: 43] RU55 [-257: -152] RU20 [44: 69] RU56 [-123: -18] RU21 [72: 97] RU57 [18: 123] RU22 [98: 123] RU58 [152: 257] RU23 [125: 150] RU59 [260: 365] RU24 [152: 177] RU60 [394: 499] RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]	RU index and	RU17	[-43: -18]	RU53	[-499: -394]					
RU20 [44: 69] RU56 [-123: -18] RU21 [72: 97] RU57 [18: 123] RU22 [98: 123] RU58 [152: 257] RU23 [125: 150] RU59 [260: 365] RU24 [152: 177] RU60 [394: 499] RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]	subcarrier	RU18	[-16: -4, 4: 16]	RU54	[-365: -260]					
RU21 [72: 97] RU57 [18: 123] RU22 [98: 123] RU58 [152: 257] RU23 [125: 150] RU59 [260: 365] RU24 [152: 177] RU60 [394: 499] RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]	range	RU19	[18: 43]	RU55	[-257: -152]					
RU22 [98: 123] RU58 [152: 257] RU23 [125: 150] RU59 [260: 365] RU24 [152: 177] RU60 [394: 499] RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU20	[44: 69]	RU56	[-123: -18]					
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RU24 [152: 177] RU60 [394: 499] RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU22	[98: 123]	RU58	[152: 257]					
RU25 [178: 203] 242-tone RU RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU23	[125: 150]	RU59	[260: 365]					
RU26 [206: 231] RU61 [-500: -259] RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU24	[152: 177]	RU60	[394: 499]					
RU27 [232: 257] RU62 [-258: -17] RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU25	[178: 203]	2	42-tone RU					
RU28 [260: 285] RU63 [17: 258] RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU26	[206: 231]	RU61	[-500: -259]					
RU29 [286: 311] RU64 [259: 500] RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU27	[232: 257]	RU62	[-258: -17]					
RU30 [314: 339] 484-tone RU RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU28	[260: 285]	RU63	[17: 258]					
RU31 [340: 365] RU65 [-500: -17] RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU29	[286: 311]	RU64	[259: 500]					
RU32 [367: 392] RU66 [17: 500] RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU30	[314: 339]	4	84-tone RU					
RU33 [394: 419] 996-tone RU RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU31	[340: 365]	RU65	[-500: -17]					
RU34 [420: 445] RU67 [-500: -3, 3: 500]		RU32	[367: 392]	RU66	[17: 500]					
		RU33	[394: 419]	9	96-tone RU					
DUOS (440 470)		RU34	[420: 445]	RU67	[-500: -3, 3: 500]					
RU35 [448: 4/3]		RU35	[448: 473]							
RU36 [474: 499]		RU36	[474: 499]							

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

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		RADIATE	D EMISSION TE	ST (BELOW	1 GHz)		
MODE	FREQUENCY	AVAILABLE	TESTED	MODULATION	DATA RATE (Mbps)		ANTENNA
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION			PORT
	5180~5240	36 to 48	44		,	. ,	
000 44-	5260~5320	52 to 64	60	OFDM			0.T./
802.11a	5500~5720	100 to 144	116	OFDM	6)	2TX
	5745~5825	149 to 165	157				
		RADIATE	D EMISSION TE	ST (ABOVE 1	l GHz)		
MODE	FREQUENCY	AVAILABLE	TESTED	MODUL ATION	DATA	RATE	ANTENNA
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	(Mb	ps)	PORT
	5180~5240	36 to 48	36,44,48		`	1 /	
000.44	5260~5320	52 to 64	52,60,64	OFDM			0.777
802.11a	5500~5720	100 to 144	100,116,140,144	OFDM	6)	2TX
	5745~5825	149 to 165	149,157,165				
	5180~5240	36 to 48	36,44,48				
000 44 14 1700	5260~5320	52 to 64	52,60,64	05014	M MCS0		
802.11ac VHT20	5500~5700	100 to 140	100,116,140	OFDM			MIMO
	5745~5825	149 to 165	149,157,165				
	5190~5230	38 to 46	38,46				
	5270~5310	54 to 62	54,62	OFDM	MCS0		
802.11ac VHT40	5510~5670	102 to 134	102,110,134				MIMO
	5755~5795	151 to 159	151,159				
	5210	42	42				
	5290	58	58				
802.11ac_VHT80	5530~5610	106 to 138	106,122,138	OFDM	MCS0		MIMO
	5775	155	155				
		RADIATE	D EMISSION TE	ST (ABOVE 1	GHz)		
MODE	FREQUENCY	AVAILABLE	TESTED	MODUL ATION	RU	DATA RATE	ANTENNA
MODE	BAND (MHz)	CHANNEL	CHANNEL	MODULATION	CONFIGURATIO	(Mbps)	PORT
	5180~5240	36 to 48	36,44,48			(, ,	
000.44	5260~5320	52 to 64	52,60,64	055144	E		
802.11ax_HE20	5500~5720	100 to 144	100,116,140,144	OFDMA	FULL RU	MCS0	MIMO
	5745~5825 149 to 165 149,157,165						
	5190~5230	38 to 46	38,46				
	5270~5310	54 to 62	54,62				
802.11ax_HE40	5510~5670	102 to 142	102,110,134,142	OFDMA	FULL RU	MCS0	MIMO
	5755~5795	151 to 159	151,159	1			
	5210	42	42				
802.11ax_HE80 –	5290	58	58	OEDAAA	5111 511		141140
	5530~5610	106 to 138	106,122,138	OFDMA	FULL RU	MCS0	MIMO
	5775	155	155	1			

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			CONDUCTE	D TEST			
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA (Mb	ANTENNA PORT	
	5180~5240	36 to 48	36,44,48		(IVID	ρoj	1 01(1
802.11a	5260~5320 5500~5720	52 to 64 100 to 144	52,60,64 100,116,140,144	OFDM	6	6	2TX
	5745~5825 5180~5240	149 to 165 36 to 48	149,157,165 36,44,48				
802.11ac VHT20	5260~5320	52 to 64	52,60,64	OFDM	MC	120	MIMO
002.11dC V11120	5500~5700 5745~5825	100 to 140 149 to 165	100,116,140 149,157,165	OI DIVI	IVIC	,00	WIIWIO
	5190~5230 5270~5310	38 to 46 54 to 62	38,46 54,62				
802.11ac VHT40	5510~5670	102 to 134	102,110,134	OFDM	MC	cso	MIMO
	5755~5795 5210	151 to 159 42	151,159 42				
802.11ac_VHT80	5290 5530~5610	58 106 to 138	58 106,122,138	OFDM	MCS0		MIMO
	5775	155	155				
			CONDUCTE	D TEST			
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATIO	DATA RATE (Mbps)	ANTENNA PORT
	5180~5240 5260~5320	36 to 48 52 to 64	36,44,48 52,60,64				
802.11ax_HE20	5500~5720 5745~5825	100 to 144 149 to 165	100,116,140,144	OFDMA	FULL RU	MCS0	MIMO
	5190~5230	38 to 46	38,46				
802.11ax_HE40	5270~5310 5510~5670	54 to 62 102 to 142	54,62 102,110,134,142	OFDMA	FULL RU	MCS0	MIMO
	5755~5795	151 to 159	151,159				
802.11ax HE80	5210 5290	42 58	42 58	OFDMA	FULL RU	MCS0	MIMO
802.11ax_HE80	5530~5610 5775	106 to 138 155	106,122,138 155	OI DIVII	1 OLL IVO	WIGGO	IVIIIVIO

Note: NB

The field strength of radiation emission was measured as NB Plane for channel Low, Mid and High.

Note: TB

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Un	certain	ty
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measurement	+/-	1.68	dB
Temperature	+/-	0.4	٥°
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty						
	+/-	2.57	dB	9kHz~30MHz		
Polarization: Vertical +/- 4.85 dB +/- 4.45 dB +/- 4.24 dB	30MHz - 1000MHz					
	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		
	+/-	2.57	dB	9kHz~30MHz		
Polarization: Horizontal	+/-	4.37	dB	30MHz - 1000MHz		
Folarization. Horizontal	+/-	4.45	dB	1GHz - 18GHz		
	+/-	4.24	dB	18GHz - 40GHz		

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 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

6.1.1 Output Power

				e-CRF Title	47 §15.407	
Band	Ó	EUT CATEGORY	Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
		Fixed point-to- point	1 Watt(30dBm)	Not required	Not required	23dBi
11 11111 4	Out door AP		1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
U-NII-1		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
V		Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	٧	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	When EIRP >500mW At least 6dB below EIRP 1W (30dBm)	6dBi
U-NII-2C	٧	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required	177 (3045111)	6dBi
	V Other 1 Watt(30dBm)		1 Watt(30dBm)	Not required	Not required	6dBi
U-NII-3		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required

^{1.} If transmitting antennas of directional gain greater than the antenna requirements column, the Maximum transmit power shall be reduced by the amount in dB that the direction-al gain of the antenna.

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^{2.} For the 10 log B, B is the 26 dB emission bandwidth.



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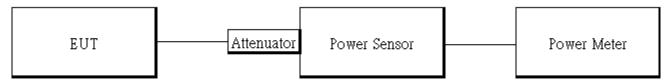
6.2 Measurement Equipment Used:

	Conducted E	mission Test	Site: Conducte	ed D	
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUM- BER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/24/2022
Power Meter	Anritsu	ML2496A	2138002	11/12/2021	11/11/2022
Power Sensor	Anritsu	MA2411B	1911390	09/20/2021	09/19/2022
Power Sensor	Anritsu	MA2411B	1911398	09/22/2021	09/21/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213- 10	RF13	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT- 218FS-10	RF15	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT- 218FS-10	RF16	11/18/2021	11/17/2022
DC Block	PASTER- NACK	PE8210	RF158	11/18/2021	11/17/2022

NOTE: N.C.R refers to Not Calibrated Required.

6.3 Test Setup

6.3.1 Output Power



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6.4 **Measurement Procedure**

6.4.1 **Output Power Measurements**

- 1. Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules . 2.
- Remove the antenna from the EUT and then connect a low loss RF cable from the an-3. tenna port to the power meter
- Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
- Record the max. reading and add 10 log(1/duty cycle).
- Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
- 7. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

 \hat{G}_k is the gain in dBi of the kth antenna.

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

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6.5 **Output Power Measurement Result**

6.5.1 **FCC Output power**

WLAN for NB

802.11a Ch0

UZ.IIa_	<u> </u>						
СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12	15.60	36.332	23.98	PASS
44	5220	6	13.5	17.27	53.370	23.98	PASS
48	5240	6	15.5	18.78	75.560	23.98	PASS
52	5260	6	15.5	18.84	76.576	23.98	PASS
60	5300	6	15	18.58	72.160	23.98	PASS
64	5320	6	12	15.53	35.751	23.98	PASS
100	5500	6	13	17.09	51.203	23.98	PASS
116	5580	6	15.5	18.85	76.788	23.98	PASS
140	5700	6	14	17.78	60.020	23.98	PASS
144	5720(U-NII 2C)	6	14.5	16.48	44.50	23.46	PASS
144	5720 (U-NII 3)	6	14.5	12.84	19.22	30	PASS
149	5745	6	15.5	19.61	91.473	30	PASS
157	5785	6	15.5	19.63	91.895	30	PASS
165	5825	6	15.5	19.90	97.790	30	PASS

802.11a Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	11.5	15.11	32.456	23.98	PASS
44	5220	6	13.5	17.01	50.268	23.98	PASS
48	5240	6	15.5	18.64	73.163	23.98	PASS
52	5260	6	15.5	18.68	73.840	23.98	PASS
60	5300	6	15	18.41	69.389	23.98	PASS
64	5320	6	12.5	15.92	39.111	23.98	PASS
100	5500	6	11	16.49	44.596	23.98	PASS
116	5580	6	15	15.48	35.342	23.98	PASS
140	5700	6	13.5	17.44	55.500	23.98	PASS
144	5720(U-NII 2C)	6	14.5	16.09	40.63	23.9	PASS
144	5720 (U-NII 3)	6	14.5	12.97	19.80	30	PASS
149	5745	6	15.5	19.44	87.962	30	PASS
157	5785	6	15.5	19.52	89.597	30	PASS
165	5825	6	15.5	19.64	92.107	30	PASS

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802.11a_2TX

CII	Frequency	Data	Power	Avg. POV	VER (dBm)	TOTAL	TOTAL	REQUIRED	DECLUT
СН	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	6	11	14.2	14.08	18.21	66.222	23.98	PASS
44	5220	6	13.5	15.98	15.83	19.98	99.541	23.98	PASS
48	5240	6	14.5	17.54	17.18	21.44	139.316	23.98	PASS
52	5260	6	14.5	17.51	17.35	21.50	141.254	23.98	PASS
60	5300	6	14.5	17.96	17.22	21.68	147.231	23.98	PASS
64	5320	6	11.5	14.71	14.21	18.54	71.450	23.98	PASS
100	5500	6	11.5	16.01	15.52	19.85	96.605	23.98	PASS
116	5580	6	15.5	17.72	17.54	21.70	147.911	23.98	PASS
140	5700	6	13.5	16.58	16.22	20.48	111.686	23.98	PASS
144	5720(U-NII 2C)	6	14.5	15.39	14.78	19.16	82.499	23.46	PASS
144	5720 (U-NII 3)	6	14.5	11.75	11.65	15.77	37.759	30	PASS
149	5745	6	16	18.81	18.39	22.68	185.353	30	PASS
157	5785	6	16	18.77	18.42	22.67	184.927	30	PASS
165	5825	6	15.5	18.65	18.25	22.53	179.061	30	PASS

802 11ac VHT20 Ch0

802.11ac_	_VH120_Ch0						
СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.5	15.81	38.108	23.98	PASS
44	5220	MCS0	15	17.19	52.362	23.98	PASS
48	5240	MCS0	16.5	18.03	63.536	23.98	PASS
52	5260	MCS0	17	18.39	69.027	23.98	PASS
60	5300	MCS0	16	17.89	61.520	23.98	PASS
64	5320	MCS0	13.5	15.57	36.059	23.98	PASS
100	5500	MCS0	14	16.79	47.755	23.98	PASS
116	5580	MCS0	17	18.62	72.781	23.98	PASS
140	5700	MCS0	15	17.52	56.496	23.98	PASS
144	5720(U-NII 2C)	MCS0	16	16.70	46.79	23.98	PASS
144	5720 (U-NII 3)	MCS0	16	13.15	20.67	30	PASS
149	5745	MCS0	16	18.55	71.617	30	PASS
157	5785	MCS0	16	18.51	70.961	30	PASS
165	5825	MCS0	16	18.53	71.288	30	PASS

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802.11ac VHT20 Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13	15.39	34.595	23.98	PASS
44	5220	MCS0	14.5	16.76	47.426	23.98	PASS
48	5240	MCS0	16.5	17.89	61.520	23.98	PASS
52	5260	MCS0	17	18.27	67.146	23.98	PASS
60	5300	MCS0	15.5	17.32	53.953	23.98	PASS
64	5320	MCS0	13.5	15.38	34.516	23.98	PASS
100	5500	MCS0	13.5	16.29	42.562	23.98	PASS
116	5580	MCS0	16.5	18.13	65.016	23.98	PASS
140	5700	MCS0	14.5	17.25	53.091	23.98	PASS
144	5720(U-NII 2C)	MCS0	16	16.33	42.95	23.98	PASS
144	5720 (U-NII 3)	MCS0	16	12.72	18.72	30	PASS
149	5745	MCS0	15.5	18.07	64.123	30	PASS
157	5785	MCS0	16	18.28	67.300	30	PASS
165	5825	MCS0	15.5	17.98	62.808	30	PASS

802.11ac VHT20 MIMO

СН	Frequency	Data	Power	Avg. POW	VER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
On	(MHz)	Rate	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	KESULI
36	5180	MCS0	13	14.71	14.53	18.77	75.336	23.98	PASS
44	5220	MCS0	14	15.85	15.78	19.97	99.312	23.98	PASS
48	5240	MCS0	15.5	16.72	16.62	20.82	120.781	23.98	PASS
52	5260	MCS0	15.5	17.25	16.58	21.08	128.233	23.98	PASS
60	5300	MCS0	15	16.6	16.07	20.49	111.944	23.98	PASS
64	5320	MCS0	13	14.5	14.05	18.43	69.663	23.98	PASS
100	5500	MCS0	13	15.45	15.03	19.40	87.096	23.98	PASS
116	5580	MCS0	16	16.52	15.97	20.40	109.648	23.98	PASS
140	5700	MCS0	15	16.12	15.88	20.15	103.514	23.98	PASS
144	5720(U-NII 2C)	MCS0	16.5	15.70	15.45	19.73	93.914	23.98	PASS
144	5720 (U-NII 3)	MCS0	16.5	12.15	11.84	16.15	41.212	30	PASS
149	5745	MCS0	16	17.21	16.69	21.11	129.122	30	PASS
157	5785	MCS0	16	17.28	16.77	21.18	131.220	30	PASS
165	5825	MCS0	16	17.53	16.85	21.35	136.458	30	PASS

802.11ac VHT40 Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14	15.07	32.134	23.98	PASS
46	5230	MCS0	17	17.46	55.715	23.98	PASS
54	5270	MCS0	17.5	17.74	59.425	23.98	PASS
62	5310	MCS0	14.5	15.19	33.035	23.98	PASS
102	5510	MCS0	15.5	16.90	48.975	23.98	PASS
110	5550	MCS0	16.5	17.30	53.700	23.98	PASS
134	5670	MCS0	16.5	17.26	53.207	23.98	PASS
142	5710(U-NII 2C)	MCS0	15.5	15.90	38.92	23.98	PASS
142	5710 (U-NII 3)	MCS0	15.5	7.60	5.75	30	PASS
151	5755	MCS0	16	17.28	53.453	30	PASS
159	5795	MCS0	16	17.21	52.598	30	PASS

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802.11ac VHT40 Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13.5	14.64	29.105	23.98	PASS
46	5230	MCS0	16.5	16.95	49.542	23.98	PASS
54	5270	MCS0	17	17.30	53.700	23.98	PASS
62	5310	MCS0	14.5	14.91	30.972	23.98	PASS
102	5510	MCS0	15	16.36	43.249	23.98	PASS
110	5550	MCS0	16	16.79	47.750	23.98	PASS
134	5670	MCS0	16.5	17.13	51.638	23.98	PASS
142	5710(U-NII 2C)	MCS0	15.5	15.75	37.62	23.98	PASS
142	5710 (U-NII 3)	MCS0	15.5	7.02	5.04	30	PASS
151	5755	MCS0	16	17.14	51.757	30	PASS
159	5795	MCS0	16	17.05	50.696	30	PASS

802.11ac VHT40 MIMO

011	Frequency	Data	Power	Avg. POV	VER (dBm)	TOTAL	TOTAL	REQUIRED	RESULT
СН	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESOLI
38	5190	MCS0	14	13.45	12.54	18.05	63.826	23.98	PASS
46	5230	MCS0	16.5	15.41	14.77	20.13	103.039	23.98	PASS
54	5270	MCS0	16.5	15.86	15.16	20.55	113.501	23.98	PASS
62	5310	MCS0	14	13.44	12.58	18.06	63.973	23.98	PASS
102	5510	MCS0	14	14.75	14.07	19.45	88.105	23.98	PASS
110	5550	MCS0	16	15.33	14.67	20.04	100.925	23.98	PASS
134	5670	MCS0	15.5	15.41	14.78	20.14	103.276	23.98	PASS
142	5710(U-NII 2C)	MCS0	16	14.34	14.30	19.35	86.162	23.98	PASS
142	5710 (U-NII 3)	MCS0	16	6.04	5.57	10.84	12.138	30	PASS
151	5755	MCS0	16	15.17	14.97	20.10	102.329	30	PASS
159	5795	MCS0	16	15.09	14.84	20.00	100.000	30	PASS

802 11ac VHT80 Ch0

002.11ac_	_V11100_C110						
СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	13.5	12.81	19.091	23.98	PASS
58	5290	MCS0	14.5	13.99	25.051	23.98	PASS
106	5530	MCS0	15	14.98	31.465	23.98	PASS
122	5610	MCS0	17	16.23	41.959	23.98	PASS
138	5690(U-NII 2C)	MCS0	17.5	16.16	41.31	23.98	PASS
138	5690 (U-NII 3)	MCS0	17.5	4.20	2.63	30	PASS
155	5775	MCS0	16.5	16.47	44.343	30	PASS

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802.11ac_VHT80_Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	13.5	12.68	18.528	23.98	PASS
58	5290	MCS0	14.5	13.87	24.368	23.98	PASS
106	5530	MCS0	14.5	14.40	27.531	23.98	PASS
122	5610	MCS0	17	15.99	39.703	23.98	PASS
138	5690(U-NII 2C)	MCS0	17	15.53	35.72	23.98	PASS
138	5690 (U-NII 3)	MCS0	17	5.58	3.61	30	PASS
155	5775	MCS0	16.5	16.10	40.722	30	PASS

802.11ac_VHT80_MIMO

011	Frequency	Data	Power	Avg. POW	VER (dBm)	TOTAL POWER	TOTAL	REQUIRED	DECULT.
СН	(MHz)	Rate	set	Ch0	Ch1	(dBm)	POWER (mW)	LIMIT (dBm)	RESULT
42	5210	MCS0	14	9.66	9.54	15.97	39.537	23.98	PASS
58	5290	MCS0	14.5	10.81	10.41	16.98	49.888	23.98	PASS
106	5530	MCS0	13.5	11.55	10.75	17.54	56.754	23.98	PASS
122	5610	MCS0	17	12.97	12.48	19.10	81.283	23.98	PASS
138	5690(U-NII 2C)	MCS0	15	11.55	11.21	17.76	59.641	23.98	PASS
138	5690 (U-NII 3)	MCS0	15	-0.41	1.26	6.88	4.870	30	PASS
155	5775	MCS0	16	12.72	12.38	18.92	77.983	30	PASS

802 11ax HF20 Ch0

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	15	14.72	29.642	23.98	PASS
44	5220	MCS0	full	17	17.14	51.750	23.98	PASS
48	5240	MCS0	full	19	18.25	66.821	23.98	PASS
52	5260	MCS0	full	19	18.65	73.267	23.98	PASS
60	5300	MCS0	full	18.5	17.94	62.217	23.98	PASS
64	5320	MCS0	full	16	15.75	37.576	23.98	PASS
100	5500	MCS0	full	16.5	16.95	49.535	23.98	PASS
116	5580	MCS0	full	19	18.69	73.945	23.98	PASS
140	5700	MCS0	full	17.5	17.61	57.665	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	16.5	14.96	31.302	22.93	PASS
144	5720 (U-NII 3)	MCS0	full	16.5	10.51	11.249	30	PASS
149	5745	MCS0	full	19.5	18.81	76.017	30	PASS
157	5785	MCS0	full	19.5	18.71	74.287	30	PASS
165	5825	MCS0	full	20	19.61	91.392	30	PASS

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802.11ax HE20 Ch1

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	15	14.53	28.373	23.98	PASS
44	5220	MCS0	full	17	16.94	49.421	23.98	PASS
48	5240	MCS0	full	19	18.05	63.813	23.98	PASS
52	5260	MCS0	full	19	18.42	69.488	23.98	PASS
60	5300	MCS0	full	18.5	17.75	59.554	23.98	PASS
64	5320	MCS0	full	16	15.61	36.384	23.98	PASS
100	5500	MCS0	full	16	16.43	43.945	23.98	PASS
116	5580	MCS0	full	19	18.62	72.763	23.98	PASS
140	5700	MCS0	full	17	17.23	52.834	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	19.5	16.45	44.182	23.77	PASS
144	5720 (U-NII 3)	MCS0	full	19.5	13.18	20.818	30	PASS
149	5745	MCS0	full	19	18.27	67.129	30	PASS
157	5785	MCS0	full	19	18.15	65.300	30	PASS
165	5825	MCS0	full	19	18.41	69.328	30	PASS

802.11ax HE20 MIMO

СН	Frequency	Data	RU config.	Power	Avg. POW	/ER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
СП	(MHz)	Rate	Ko comig.	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	KESULI
36	5180	MCS0	full	15.5	14.52	14.34	17.84	60.814	23.98	PASS
44	5220	MCS0	full	17.5	16.83	16.72	20.18	104.232	23.98	PASS
48	5240	MCS0	full	19	17.79	17.49	21.05	127.350	23.98	PASS
52	5260	MCS0	full	19.5	18.35	18.14	21.66	146.555	23.98	PASS
60	5300	MCS0	full	18.5	17.48	17.13	20.72	118.032	23.98	PASS
64	5320	MCS0	full	16	15.34	15.18	18.67	73.621	23.98	PASS
100	5500	MCS0	full	17.5	16.58	16.32	19.86	96.828	23.98	PASS
116	5580	MCS0	full	19	18.32	18.17	21.66	146.555	23.98	PASS
140	5700	MCS0	full	18.5	17.18	16.84	20.42	110.154	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	20	17.10	16.63	20.28	106.695	22.93	PASS
144	5720 (U-NII 3)	MCS0	full	20	12.65	13.37	16.43	43.991	30	PASS
149	5745	MCS0	full	18.5	18.24	17.85	21.46	139.959	30	PASS
157	5785	MCS0	full	18.5	18.17	17.76	21.38	137.404	30	PASS
165	5825	MCS0	full	19.5	18.74	18.59	22.08	161.436	30	PASS

902 44av UE40 Ch0

002.11ax_	HE4U_CNU		1		I		1	
СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	12.5	11.73	14.891	23.98	PASS
46	5230	MCS0	full	18.5	17.62	57.798	23.98	PASS
54	5270	MCS0	full	19	18.01	63.229	23.98	PASS
62	5310	MCS0	full	14.5	13.42	21.974	23.98	PASS
102	5510	MCS0	full	17.5	17.07	50.923	23.98	PASS
110	5550	MCS0	full	18	17.52	50.923	23.98	PASS
134	5670	MCS0	full	18	17.33	54.065	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	18.5	16.42	43.814	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	18.5	8.59	7.226	30	PASS
151	5755	MCS0	full	18	17.57	57.137	30	PASS
159	5795	MCS0	full	18	17.55	56.874	30	PASS

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802.11ax HE40 Ch1

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	12	11.61	14.485	23.98	PASS
46	5230	MCS0	full	18.5	17.39	54.817	23.98	PASS
54	5270	MCS0	full	18.5	17.62	57.798	23.98	PASS
62	5310	MCS0	full	14.5	13.31	21.425	23.98	PASS
102	5510	MCS0	full	17	16.52	44.866	23.98	PASS
110	5550	MCS0	full	17.5	17.05	44.866	23.98	PASS
134	5670	MCS0	full	18	17.15	51.870	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	18.5	16.25	42.146	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	18.5	7.65	5.818	30	PASS
151	5755	MCS0	full	18.5	17.35	54.314	30	PASS
159	5795	MCS0	full	18.5	17.31	53.816	30	PASS

802.11ax HE40 MIMO

011	Frequency	Data	Durantin	Power	Avg. POW	VER (dBm)	TOTAL	TOTAL	REQUIRED	DECLUT
СН	(MHz)	Rate	RU config.	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
38	5190	MCS0	full	12.5	10.98	10.48	14.85	30.549	23.98	PASS
46	5230	MCS0	full	18.5	16.41	16.25	20.44	110.662	23.98	PASS
54	5270	MCS0	full	18.5	16.96	16.43	20.81	120.504	23.98	PASS
62	5310	MCS0	full	14	12.49	12.25	16.48	44.463	23.98	PASS
102	5510	MCS0	full	16	15.84	15.08	19.59	90.991	23.98	PASS
110	5550	MCS0	full	18.5	16.64	15.7	20.30	90.991	23.98	PASS
134	5670	MCS0	full	18.5	16.53	15.66	20.23	105.439	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	13.5	10.82	10.66	14.85	30.540	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	13.5	2.99	2.06	6.66	4.634	30	PASS
151	5755	MCS0	full	18.5	16.45	16.27	20.47	111.429	30	PASS
159	5795	MCS0	full	18.5	16.53	16.37	20.56	113.763	30	PASS

802.11ax HE80 Ch0

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	13.5	11.43	13.906	23.98	PASS
58	5290	MCS0	full	14	12.26	16.835	23.98	PASS
106	5530	MCS0	full	16.5	15.33	34.136	23.98	PASS
122	5610	MCS0	full	18.5	16.64	46.155	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	19	16.16	41.309	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	19	5.16	3.279	30	PASS
155	5775	MCS0	full	17.5	16.46	44.281	30	PASS

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802.11ax HE80 Ch1

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	13.5	11.31	13.527	23.98	PASS
58	5290	MCS0	full	14	12.13	16.339	23.98	PASS
106	5530	MCS0	full	16	14.67	29.323	23.98	PASS
122	5610	MCS0	full	18.5	16.32	42.876	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	19	15.71	37.212	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	19	6.53	4.496	30	PASS
155	5775	MCS0	full	17.5	16.20	41.708	30	PASS

802.11ax_HE80_MIMO

СН	Frequency	Data	RU config.	Power	Avg. POW	VER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
Сп	(MHz)	Rate	Ro comig.	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	RESULI
42	5210	MCS0	full	13	10.66	10.48	14.56	28.576	23.98	PASS
58	5290	MCS0	full	13.5	11.47	11.14	15.30	33.884	23.98	PASS
106	5530	MCS0	full	15.5	14.42	13.68	18.06	63.973	23.98	PASS
122	5610	MCS0	full	18.5	15.41	15.08	19.24	83.946	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	19.5	16.14	15.78	19.96	98.977	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	19.5	5.13	6.61	9.92	9.824	30	PASS
155	5775	MCS0	full	18.5	15.59	15.21	19.40	87.096	30	PASS

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WLAN for TB

802.11a Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12	15.60	36.332	23.98	PASS
44	5220	6	13.5	17.27	53.370	23.98	PASS
48	5240	6	15.5	18.78	75.560	23.98	PASS
52	5260	6	15.5	18.84	76.576	23.98	PASS
60	5300	6	15	18.58	72.160	23.98	PASS
64	5320	6	12	15.53	35.751	23.98	PASS
100	5500	6	13	17.09	51.203	23.98	PASS
116	5580	6	15.5	18.85	76.788	23.98	PASS
140	5700	6	14	17.78	60.020	23.98	PASS
144	5720(U-NII 2C)	6	14.5	16.48	44.50	23.46	PASS
144	5720 (U-NII 3)	6	14.5	12.84	19.22	30	PASS
149	5745	6	15.5	19.61	91.473	30	PASS
157	5785	6	15.5	19.63	91.895	30	PASS
165	5825	6	15.5	19.90	97.790	30	PASS

802.11a Ch1

002.11a_V							
СН	Frequency	Data	Power	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
	(MHz)	Rate	set	(dBm)	(mW)	(dBm)	
36	5180	6	11.5	15.11	32.456	23.98	PASS
44	5220	6	13.5	17.01	50.268	23.98	PASS
48	5240	6	15.5	18.64	73.163	23.98	PASS
52	5260	6	15.5	18.68	73.840	23.98	PASS
60	5300	6	15	18.41	69.389	23.98	PASS
64	5320	6	12.5	15.92	39.111	23.98	PASS
100	5500	6	11	16.49	44.596	23.98	PASS
116	5580	6	15	15.48	35.342	23.98	PASS
140	5700	6	13.5	17.44	55.500	23.98	PASS
144	5720(U-NII 2C)	6	14.5	16.09	40.63	23.9	PASS
144	5720 (U-NII 3)	6	14.5	12.97	19.80	30	PASS
149	5745	6	15.5	19.44	87.962	30	PASS
157	5785	6	15.5	19.52	89.597	30	PASS
165	5825	6	15.5	19.64	92.107	30	PASS

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802.11a_2TX

СН	Frequency	Data	Power	Avg. POV	VER (dBm)	TOTAL POWER	TOTAL	REQUIRED	DECLUT
Сп	(MHz)	Rate	set	Ch0	Ch1	(dBm)	POWER (mW)	LIMIT (dBm)	RESULT
36	5180	6	11	14.2	14.08	18.21	66.222	23.98	PASS
44	5220	6	13.5	15.98	15.83	19.98	99.541	23.98	PASS
48	5240	6	14.5	17.54	17.18	21.44	139.316	23.98	PASS
52	5260	6	14.5	17.51	17.35	21.50	141.254	23.98	PASS
60	5300	6	14.5	17.96	17.22	21.68	147.231	23.98	PASS
64	5320	6	11.5	14.71	14.21	18.54	71.450	23.98	PASS
100	5500	6	11.5	16.01	15.52	19.85	96.605	23.98	PASS
116	5580	6	15.5	17.72	17.54	21.70	147.911	23.98	PASS
140	5700	6	13.5	16.58	16.22	20.48	111.686	23.98	PASS
144	5720(U-NII 2C)	6	14.5	15.39	14.78	19.16	82.499	23.46	PASS
144	5720 (U-NII 3)	6	14.5	11.75	11.65	15.77	37.759	30	PASS
149	5745	6	16	18.81	18.39	22.68	185.353	30	PASS
157	5785	6	16	18.77	18.42	22.67	184.927	30	PASS
165	5825	6	15.5	18.65	18.25	22.53	179.061	30	PASS

802.11ac VHT20 Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13.5	15.81	38.108	23.98	PASS
44	5220	MCS0	15	17.19	52.362	23.98	PASS
48	5240	MCS0	16.5	18.03	63.536	23.98	PASS
52	5260	MCS0	17	18.39	69.027	23.98	PASS
60	5300	MCS0	16	17.89	61.520	23.98	PASS
64	5320	MCS0	13.5	15.57	36.059	23.98	PASS
100	5500	MCS0	14	16.79	47.755	23.98	PASS
116	5580	MCS0	17	18.62	72.781	23.98	PASS
140	5700	MCS0	15	17.52	56.496	23.98	PASS
144	5720(U-NII 2C)	MCS0	16	16.70	46.79	23.98	PASS
144	5720 (U-NII 3)	MCS0	16	13.15	20.67	30	PASS
149	5745	MCS0	16	18.55	71.617	30	PASS
157	5785	MCS0	16	18.51	70.961	30	PASS
165	5825	MCS0	16	18.53	71.288	30	PASS

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802.11ac VHT20 Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13	15.39	34.595	23.98	PASS
44	5220	MCS0	14.5	16.76	47.426	23.98	PASS
48	5240	MCS0	16.5	17.89	61.520	23.98	PASS
52	5260	MCS0	17	18.27	67.146	23.98	PASS
60	5300	MCS0	15.5	17.32	53.953	23.98	PASS
64	5320	MCS0	13.5	15.38	34.516	23.98	PASS
100	5500	MCS0	13.5	16.29	42.562	23.98	PASS
116	5580	MCS0	16.5	18.13	65.016	23.98	PASS
140	5700	MCS0	14.5	17.25	53.091	23.98	PASS
144	5720(U-NII 2C)	MCS0	16	16.33	42.95	23.98	PASS
144	5720 (U-NII 3)	MCS0	16	12.72	18.72	30	PASS
149	5745	MCS0	15.5	18.07	64.123	30	PASS
157	5785	MCS0	16	18.28	67.300	30	PASS
165	5825	MCS0	15.5	17.98	62.808	30	PASS

802.11ac VHT20 MIMO

СН	Frequency	Data	Power	Avg. POV	VER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
СП	(MHz)	Rate	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	KESULI
36	5180	MCS0	13	14.71	14.53	18.77	75.336	23.98	PASS
44	5220	MCS0	14	15.85	15.78	19.97	99.312	23.98	PASS
48	5240	MCS0	15.5	16.72	16.62	20.82	120.781	23.98	PASS
52	5260	MCS0	15.5	17.25	16.58	21.08	128.233	23.98	PASS
60	5300	MCS0	15	16.6	16.07	20.49	111.944	23.98	PASS
64	5320	MCS0	13	14.5	14.05	18.43	69.663	23.98	PASS
100	5500	MCS0	13	15.45	15.03	19.40	87.096	23.98	PASS
116	5580	MCS0	16	16.52	15.97	20.40	109.648	23.98	PASS
140	5700	MCS0	15	16.12	15.88	20.15	103.514	23.98	PASS
144	5720(U-NII 2C)	MCS0	16.5	15.70	15.45	19.73	93.914	23.98	PASS
144	5720 (U-NII 3)	MCS0	16.5	12.15	11.84	16.15	41.212	30	PASS
149	5745	MCS0	16	17.21	16.69	21.11	129.122	30	PASS
157	5785	MCS0	16	17.28	16.77	21.18	131.220	30	PASS
165	5825	MCS0	16	17.53	16.85	21.35	136.458	30	PASS

802.11ac VHT40 Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14	15.07	32.134	23.98	PASS
46	5230	MCS0	17	17.46	55.715	23.98	PASS
54	5270	MCS0	17.5	17.74	59.425	23.98	PASS
62	5310	MCS0	14.5	15.19	33.035	23.98	PASS
102	5510	MCS0	15.5	16.90	48.975	23.98	PASS
110	5550	MCS0	16.5	17.30	53.700	23.98	PASS
134	5670	MCS0	16.5	17.26	53.207	23.98	PASS
142	5710(U-NII 2C)	MCS0	15.5	15.90	38.92	23.98	PASS
142	5710 (U-NII 3)	MCS0	15.5	7.60	5.75	30	PASS
151	5755	MCS0	16	17.28	53.453	30	PASS
159	5795	MCS0	16	17.21	52.598	30	PASS

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802.11ac VHT40 Ch1

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13.5	14.64	29.105	23.98	PASS
46	5230	MCS0	16.5	16.95	49.542	23.98	PASS
54	5270	MCS0	17	17.30	53.700	23.98	PASS
62	5310	MCS0	14.5	14.91	30.972	23.98	PASS
102	5510	MCS0	15	16.36	43.249	23.98	PASS
110	5550	MCS0	16	16.79	47.750	23.98	PASS
134	5670	MCS0	16.5	17.13	51.638	23.98	PASS
142	5710(U-NII 2C)	MCS0	15.5	15.75	37.62	23.98	PASS
142	5710 (U-NII 3)	MCS0	15.5	7.02	5.04	30	PASS
151	5755	MCS0	16	17.14	51.757	30	PASS
159	5795	MCS0	16	17.05	50.696	30	PASS

802.11ac VHT40 MIMO

011	Frequency	Data	Power	Avg. POV	VER (dBm)	TOTAL	TOTAL	REQUIRED	DE0111 T
СН	(MHz)	Rate	set	Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
38	5190	MCS0	14	13.45	12.54	18.05	63.826	23.98	PASS
46	5230	MCS0	16.5	15.41	14.77	20.13	103.039	23.98	PASS
54	5270	MCS0	16.5	15.86	15.16	20.55	113.501	23.98	PASS
62	5310	MCS0	14	13.44	12.58	18.06	63.973	23.98	PASS
102	5510	MCS0	14	14.75	14.07	19.45	88.105	23.98	PASS
110	5550	MCS0	16	15.33	14.67	20.04	100.925	23.98	PASS
134	5670	MCS0	15.5	15.41	14.78	20.14	103.276	23.98	PASS
142	5710(U-NII 2C)	MCS0	16	14.34	14.30	19.35	86.162	23.98	PASS
142	5710 (U-NII 3)	MCS0	16	6.04	5.57	10.84	12.138	30	PASS
151	5755	MCS0	16	15.17	14.97	20.10	102.329	30	PASS
159	5795	MCS0	16	15.09	14.84	20.00	100.000	30	PASS

802.11ac VHT80 Ch0

СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	13	12.88	19.401	23.98	PASS
58	5290	MCS0	14.5	13.99	25.051	23.98	PASS
106	5530	MCS0	15	14.98	31.465	23.98	PASS
122	5610	MCS0	17	16.23	41.959	23.98	PASS
138	5690(U-NII 2C)	MCS0	17.5	16.16	41.31	23.98	PASS
138	5690 (U-NII 3)	MCS0	17.5	4.20	2.63	30	PASS
155	5775	MCS0	16.5	16.47	44.343	30	PASS

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СН	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	13	12.75	18.829	23.98	PASS
58	5290	MCS0	14.5	13.87	24.368	23.98	PASS
106	5530	MCS0	14.5	14.40	27.531	23.98	PASS
122	5610	MCS0	17	15.99	39.703	23.98	PASS
138	5690(U-NII 2C)	MCS0	17	15.53	35.72	23.98	PASS
138	5690 (U-NII 3)	MCS0	17	5.58	3.61	30	PASS
155	5775	MCS0	16.5	16.10	40.722	30	PASS

802.11ac VHT80 MIMO

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СН	Frequency	Data	Power	Avg. POW	VER (dBm)	TOTAL POWER	TOTAL POWER	REQUIRED LIMIT	RESULT
СП	(MHz)	Rate	set	Ch0	Ch1	(dBm)	(mW)	(dBm)	RESULI
42	5210	MCS0	14	9.66	9.54	15.97	39.537	23.98	PASS
58	5290	MCS0	14.5	10.81	10.41	16.98	49.888	23.98	PASS
106	5530	MCS0	13.5	11.55	10.75	17.54	56.754	23.98	PASS
122	5610	MCS0	17	12.97	12.48	19.10	81.283	23.98	PASS
138	5690(U-NII 2C)	MCS0	16.5	13.60	13.03	19.70	93.250	23.98	PASS
138	5690 (U-NII 3)	MCS0	16.5	1.64	3.08	8.79	7.568	30	PASS
155	5775	MCS0	16	12.72	12.38	18.92	77.983	30	PASS

802 11ax HF20 Ch0

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	16	15.91	38.986	23.98	PASS
44	5220	MCS0	full	17	17.14	51.750	23.98	PASS
48	5240	MCS0	full	19	18.25	66.821	23.98	PASS
52	5260	MCS0	full	19	18.65	73.267	23.98	PASS
60	5300	MCS0	full	18.5	17.94	62.217	23.98	PASS
64	5320	MCS0	full	16	15.75	37.576	23.98	PASS
100	5500	MCS0	full	16.5	16.95	49.535	23.98	PASS
116	5580	MCS0	full	19	18.69	73.945	23.98	PASS
140	5700	MCS0	full	17.5	17.61	57.665	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	19.5	17.11	51.353	22.93	PASS
144	5720 (U-NII 3)	MCS0	full	19.5	12.66	18.456	30	PASS
149	5745	MCS0	full	19.5	18.81	76.017	30	PASS
157	5785	MCS0	full	19.5	18.71	74.287	30	PASS
165	5825	MCS0	full	20	19.61	91.392	30	PASS

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СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	16	15.75	37.576	23.98	PASS
44	5220	MCS0	full	17	16.94	49.421	23.98	PASS
48	5240	MCS0	full	19	18.05	63.813	23.98	PASS
52	5260	MCS0	full	19	18.42	69.488	23.98	PASS
60	5300	MCS0	full	18.5	17.75	59.554	23.98	PASS
64	5320	MCS0	full	16	15.61	36.384	23.98	PASS
100	5500	MCS0	full	16	16.43	43.945	23.98	PASS
116	5580	MCS0	full	19	18.62	72.763	23.98	PASS
140	5700	MCS0	full	17	17.23	52.834	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	19.5	16.45	44.182	23.77	PASS
144	5720 (U-NII 3)	MCS0	full	19.5	13.18	20.818	30	PASS
149	5745	MCS0	full	19	18.27	67.129	30	PASS
157	5785	MCS0	full	19	18.15	65.300	30	PASS
165	5825	MCS0	full	19	18.41	69.328	30	PASS

802.11ax HE20 MIMO

СН	Frequency	Data	Dillocation	Power	Avg. POW	Avg. POWER (dBm)		TOTAL POWER	REQUIRED LIMIT	RESULT
Сп	(MHz)	Rate	RU config.	set	Ch0	Ch1	POWER (dBm)	(mW)	(dBm)	RESULI
36	5180	MCS0	full	16.5	15.75	15.61	19.09	81.096	23.98	PASS
44	5220	MCS0	full	17.5	16.83	16.72	20.18	104.232	23.98	PASS
48	5240	MCS0	full	19	17.79	17.49	21.05	127.350	23.98	PASS
52	5260	MCS0	full	19.5	18.35	18.14	21.66	146.555	23.98	PASS
60	5300	MCS0	full	18.5	17.48	17.13	20.72	118.032	23.98	PASS
64	5320	MCS0	full	16	15.34	15.18	18.67	73.621	23.98	PASS
100	5500	MCS0	full	17.5	16.58	16.32	19.86	96.828	23.98	PASS
116	5580	MCS0	full	19	18.32	18.17	21.66	146.555	23.98	PASS
140	5700	MCS0	full	18.5	17.18	16.84	20.42	110.154	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	20	17.10	16.63	20.28	106.695	22.93	PASS
144	5720 (U-NII 3)	MCS0	full	20	12.65	13.37	16.43	43.991	30	PASS
149	5745	MCS0	full	18.5	18.24	17.85	21.46	139.959	30	PASS
157	5785	MCS0	full	18.5	18.17	17.76	21.38	137.404	30	PASS
165	5825	MCS0	full	19.5	18.74	18.59	22.08	161.436	30	PASS

802.11ax HE40 Ch0

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	15.5	15.34	34.191	23.98	PASS
46	5230	MCS0	full	18.5	17.62	57.798	23.98	PASS
54	5270	MCS0	full	19	18.01	63.229	23.98	PASS
62	5310	MCS0	full	16	15.46	35.149	23.98	PASS
102	5510	MCS0	full	17.5	17.07	50.923	23.98	PASS
110	5550	MCS0	full	18	17.52	50.923	23.98	PASS
134	5670	MCS0	full	18	17.33	54.065	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	18.5	16.42	43.814	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	18.5	8.59	7.226	30	PASS
151	5755	MCS0	full	18	17.57	57.137	30	PASS
159	5795	MCS0	full	18	17.55	56.874	30	PASS

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802.11ax HE40 Ch1

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СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	15	14.95	31.255	23.98	PASS
46	5230	MCS0	full	18.5	17.39	54.817	23.98	PASS
54	5270	MCS0	full	18.5	17.62	57.798	23.98	PASS
62	5310	MCS0	full	16	15.16	32.803	23.98	PASS
102	5510	MCS0	full	17	16.52	44.866	23.98	PASS
110	5550	MCS0	full	17.5	17.05	44.866	23.98	PASS
134	5670	MCS0	full	18	17.15	51.870	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	18.5	16.25	42.146	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	18.5	7.65	5.818	30	PASS
151	5755	MCS0	full	18.5	17.35	54.314	30	PASS
159	5795	MCS0	full	18.5	17.31	53.816	30	PASS

802.11ax HE40 MIMO

CII	Frequency	Data	RU config.	Power set	Avg. POW	Avg. POWER (dBm)		TOTAL	REQUIRED	DECLUT
СН	(MHz)	Rate			Ch0	Ch1	POWER (dBm)	POWER (mW)	LIMIT (dBm)	RESULT
38	5190	MCS0	full	15.5	14.24	13.82	18.14	65.163	23.98	PASS
46	5230	MCS0	full	18.5	16.41	16.25	20.44	110.662	23.98	PASS
54	5270	MCS0	full	18.5	16.96	16.43	20.81	120.504	23.98	PASS
62	5310	MCS0	full	15.5	14.35	13.81	18.20	66.069	23.98	PASS
102	5510	MCS0	full	16	15.84	15.08	19.59	90.991	23.98	PASS
110	5550	MCS0	full	18.5	16.64	15.7	20.30	90.991	23.98	PASS
134	5670	MCS0	full	18.5	16.53	15.66	20.23	105.439	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	18.5	15.96	15.78	19.98	99.516	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	18.5	8.13	7.18	11.79	15.103	30	PASS
151	5755	MCS0	full	18.5	16.45	16.27	20.47	111.429	30	PASS
159	5795	MCS0	full	18.5	16.53	16.37	20.56	113.763	30	PASS

802.11ax HE80 Ch0

СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	12.5	10.95	12.451	23.98	PASS
58	5290	MCS0	full	16	14.34	27.178	23.98	PASS
106	5530	MCS0	full	16.5	15.33	34.136	23.98	PASS
122	5610	MCS0	full	18.5	16.64	46.155	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	19	16.16	41.309	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	19	5.16	3.279	30	PASS
155	5775	MCS0	full	17.5	16.46	44.281	30	PASS

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СН	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	12.5	10.83	12.112	23.98	PASS
58	5290	MCS0	full	16	14.09	25.658	23.98	PASS
106	5530	MCS0	full	16	14.67	29.323	23.98	PASS
122	5610	MCS0	full	18.5	16.32	42.876	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	19	15.71	37.212	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	19	6.53	4.496	30	PASS
155	5775	MCS0	full	17.5	16.20	41.708	30	PASS

802.11ax_HE80_MIMO

СН	Frequency (MHz)		RU config.			Avg. POWER (dBm)		TOTAL POWER	REQUIRED LIMIT	RESULT
Ch			Ko comig.	set	Ch0	Ch1	POWER (dBm)	_	(dBm)	RESULI
42	5210	MCS0	full	13	10.72	10.44	14.57	28.642	23.98	PASS
58	5290	MCS0	full	15.5	13.52	12.96	17.24	52.966	23.98	PASS
106	5530	MCS0	full	15.5	14.42	13.68	18.06	63.973	23.98	PASS
122	5610	MCS0	full	18.5	15.41	15.08	19.24	83.946	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	19.5	16.14	15.78	19.96	98.977	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	19.5	5.13	6.61	9.92	9.824	30	PASS
155	5775	MCS0	full	18.5	15.59	15.21	19.40	87.096	30	PASS

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