

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: ASUSTeK COMPUTER INC.
1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Manufacturer: ASUSTeK COMPUTER INC.
1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS_AI2302

Report Number: TERF2305001082ER

FCC ID MSQA12302

Date of EUT Received: April 24, 2023

Date of Test: May 02, 2023~June 15, 2023

Issue Date: July 26, 2023

Approved By _____

Blue Yang

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	Revision	Description	Issue Date	Revised By	Remark
TERF2305001082ER	00	Original	July 17, 2023	Violetta Tang	
TERF2305001082ER	01	Updated section 1.4 & 9.5.1	July 26, 2023	Violetta Tang	*

Note:

- 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:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_AI2302
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	R4AIB7N004712UM
Power Supply:	3.89 Vdc from Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC Adapter
Test Software (Name/Version)	QRCT v4.0.210.0 & QRCT v4.0.81.1

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac
	256QAM, 1024QAM for OFDMA in 802.11ax
	256QAM, 1024QAM, 4096QAM for OFDMA in 802.11be
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ac_160MHz: up to 1733.4 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps
	802.11 ax_160MHz: up to 2402 Mbps
	802.11 be_20MHz: up to 344.2 Mbps
	802.11 be_40MHz: up to 688.2 Mbps
	802.11 be_80MHz: up to 1441.2 Mbps
802.11 be_160MHz: up to 2882.4 Mbps	

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna No.	Antenna Model No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ASUS	ANT 7	AI2302	5150~5250	-2.72
				5250~5350	-2.66
				5475~5725	-2.47
				5725~5825	-1.81
		ANT 8		5150~5250	-3.34
				5250~5350	-3.14
				5475~5725	-2.02
				5725~5825	-0.21

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

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
a/ n_HT/ ac_VHT/ ax_HE/ be_EHT 20M	5180~5240	4	22.33 dBm
	5260~5320	4	22.53 dBm
	5500~5720	12	23.09 dBm
	5745~5825	5	24.47 dBm
n_HT ac_VHT/ ax_HE/ be_EHT 40M	5190~5230	2	23.81 dBm
	5270~5310	2	23.70 dBm
	5510~5710	6	23.66 dBm
	5755~5795	2	22.61 dBm
ac_VHT/ ax_HE/ be_EHT 80M	5210	1	16.53 dBm
	5290	1	13.37 dBm
	5530~5690	3	23.18 dBm
	5775	1	19.15 dBm
ac_VHT/ ax_HE/ be_EHT 160M	5250	1	14.62 dBm
	5570	1	15.02 dBm

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

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
 FCC KDB 291074 D02 EMC Measurement v01
 ANSI C63.10:2013

1.6 Test Facility

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

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

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*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.

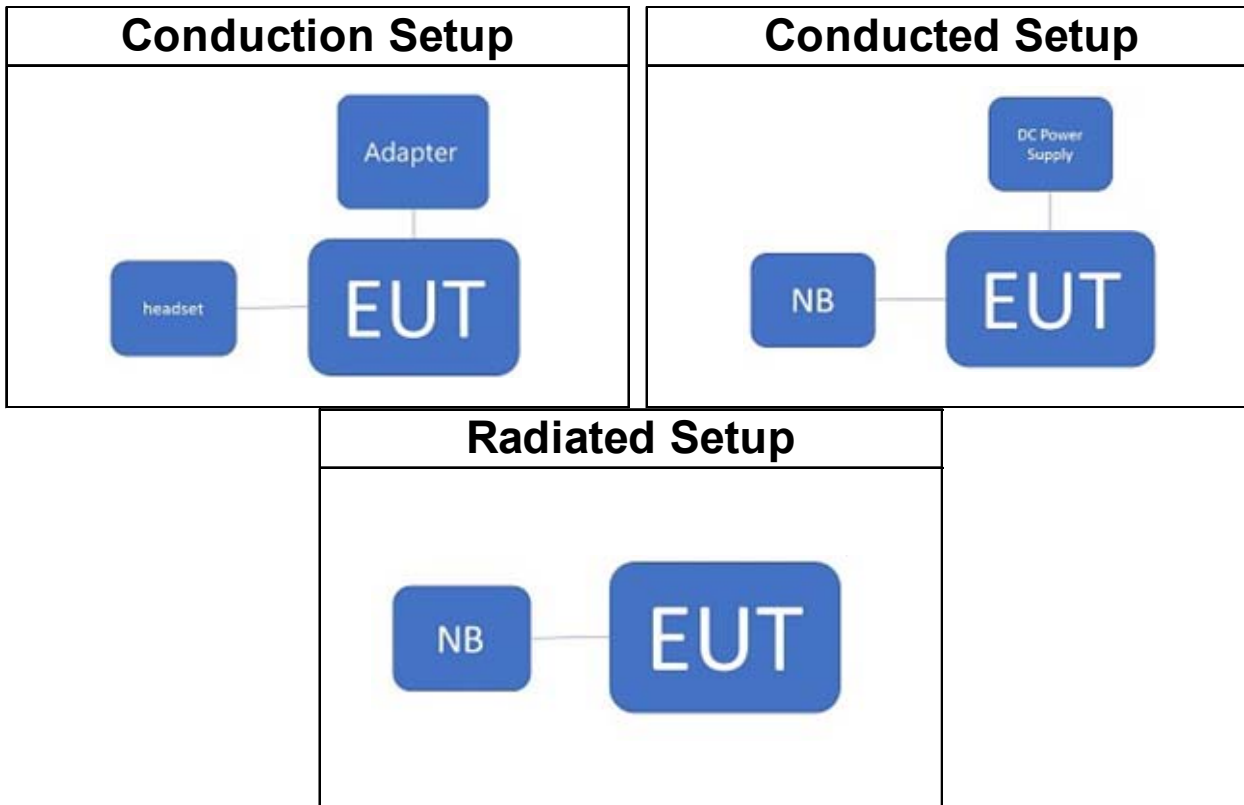
2.4.2 For all conducted test items:

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 Test Configuration



2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	PI	AD2166320	N/A	N/A	N/A
Adapter	京泉華	NCA30UU-20012501	N/A	N/A	N/A
earphone	1MORE	EA010B	N/A	N/A	N/A
Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-014TAK	N/A	N/A
Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	T440P	PC-014TAK 14/10	N/A	N/A
Notebook	Lenovo	T14	PF-380WLW	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.407(e)	Emission Bandwidth	Compliant
§15.407(a)	Maximum Conducted Output Power	Compliant
§15.407(a)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	Undesirable Radiated Emissions	Compliant
§15.407(c)	Transmission in case of Absence of Information	Compliant
§15.203	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230		
44	5220				
48	5240				

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290	50	5250
56	5280	62	5310				
60	5300						
64	5320						

Operated band in 5470 MHz ~5725 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690
112	5560	126	5630		
116	5580	134	5670		
120	5600	142	5710		
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
144	5720				

Operated band in 5725 MHz ~5850 MHz:

20 M		40 M		80 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
114	5570				
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

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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		TERF2305001082ER							Single Transmission Spatial	Multiple Transmission Spatial			
v	802.11 a	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 n	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 ac	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 ax	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX
v	802.11 be	v	Ch0	v	Ch1		Ch2		Ch3		1TX	v	2TX

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.
5. The EUT is support 26/52/106/242/484/996*2 tone RU for ax and be mode, the MRU support 52+26/106+26/484+242/966+484 tone for be mode
6. The 242-tone RU represrnt 20MHz channel, 484-tone RU represrnt 40MHz channel, 966-tone RU represent 80MHz channel.
7. The PSD of partial RU is smaller than full RU following TCB workshop interim guidance Oct.2022.
8. The power tune-up of ax HE20/HE40/HE80/HE160 mode are same with be EHT20/EHT40/EHT80/EHT160 mode, the all test is covered by be mode.
9. The power tune-up of ac VHT20/VHT40 mode are same with be HT20/HT40 mode, the all test is covered by n mode.

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CONDUCTED TEST					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	DATARATE (Mbps)	ANTENNA PORT
802.11a	5180-5240	36 to 48	36,44,48	6	2TX
	5260-5320	52 to 64	52,60,64		
	5500-5720	100 to 144	100,116,140,144		
	5745-5825	149 to 165	149,157,165		
802.11n_HT20	5180-5240	36 to 48	36,44,48	MCS0	2TX
	5260-5320	52 to 64	52,60,64		
	5500-5720	100 to 144	100,116,140,144		
	5745-5825	149 to 165	149,157,165		
802.11n_HT40	5190-5230	38 to 46	38,46	MCS0	2TX
	5270-5310	54 to 62	54,62		
	5510-5670	102 to 142	102,110,134,142		
	5755-5795	151 to 159	151,159		
802.11ac_VHT80	5210	42	42	MCS0	2TX
	5290	58	58		
	5530-5610	106 to 138	106,122,138		
	5775	155	155		
802.11ac_VHT160	5250	50	50	MCS0	2TX
	5570	114	114		

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CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5180~5240	36 to 48	36,44,48	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11be_EHT40	5190~5230	38 to 46	38,46	FULL RU	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11be_EHT80	5210	42	42	FULL RU SU_Punct20_Mid2 RU484+242_Punc20	MCS0	2TX
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			
802.11be_EHT160	5250	50	50	FULL RU 996/67 SU_Punct20_Mid3 SU_Punct20_High SU_Punct40_Mid2 SU_Punct40_High RU996+484_Punc40 996+484 MRU4	MCS0	2TX
	5570	114	114			

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RADIATED EMISSION TEST (BELOW 1 GHz)					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180-5240	36 to 48	44	6	2TX
	5260-5320	52 to 64	60		
	5500-5720	100 to 144	116		
	5745-5825	149 to 165	157		
RADIATED EMISSION TEST (ABOVE 1 GHz)					
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180-5240	36 to 48	36,44,48	6	2TX
	5260-5320	52 to 64	52,60,64		
	5500-5720	100 to 144	100,116,140,144		
	5745-5825	149 to 165	149,157,165		
802.11n_HT20	5180-5240	36 to 48	36,44,48	MCS0	2TX
	5260-5320	52 to 64	52,60,64		
	5500-5720	100 to 144	100,116,140,144		
	5745-5825	149 to 165	149,157,165		
802.11n_HT40	5190-5230	38 to 46	38,46	MCS0	2TX
	5270-5310	54 to 62	54,62		
	5510-5710	102 to 142	102,110,134,142		
	5755-5795	151 to 159	151,159		
802.11ac_VHT80	5210	42	42	MCS0	2TX
	5290	58	58		
	5530-5690	106 to 138	106,122,138		
	5775	155	155		
802.11ac_VHT160	5250	50	50	MCS0	2TX
	5570	114	114		

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RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT
802.11be_EHT20	5180~5240	36 to 48	36,44,48	FULL RU 26/0,26/8 52/37,52/40 106/53,106/54 52+26MRU1,MRU3 106+26MRU1,MRU2	MCS0	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11be_EHT40	5190~5230	38 to 46	38,46	FULL RU	MCS0	2TX
	5270~5310	54 to 62	54,62			
	5510~5710	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11be_EHT80	5210	42	42	FULL RU 484+242_Punc20	MCS0	2TX
	5290	58	58			
	5530~5690	106 to 138	106,122,138			
	5775	155	155			
802.11be_EHT160	5250	50	50	FULL RU 996/67 996+484_Punc40 996+484 MRU4	MCS0	2TX
	5570	114	114			

Note:

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.32 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 2.16 dB
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.8 dB	9kHz~30MHz
	+/-	4.82 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	2.8 dB	9kHz~30MHz
	+/-	4.54 dB	30MHz - 1000MHz
	+/-	4.37 dB	1GHz - 18GHz
	+/-	4.21 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 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESR 7	102525	02/18/2023	02/17/2024
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2022	06/21/2023
LISN	SCHWARZBECK	NSLK 8127	01040	08/23/2022	08/22/2023
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM-BM-3000	161207	06/22/2022	06/21/2023
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

6.2 Conducted Measurement

Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/14/2022	07/13/2023
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Power Meter	Anritsu	ML2496A	2132007	09/21/2022	09/20/2023
Power Sensor	Anritsu	MA2411B	1911391	09/21/2022	09/20/2023
Power Sensor	Anritsu	MA2411B	1911392	09/21/2022	09/20/2023
DC Power Supply	Gwinstek	SPS-3610	GEW902152	01/16/2023	01/15/2024
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/27/2022	09/26/2023
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/15/2022	08/14/2023
Loop Antenna	ETS.LINDGREN	6502	148045	10/05/2022	10/04/2023
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/28/2022	10/27/2023
EMI Test Receiver	R&S	ESCI 7	100759	08/22/2022	08/21/2023
Pre-Amplifier	EMC Instruments	EMC118A45SEE	980868	12/13/2022	12/12/2023
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2022	10/26/2023
Pre-Amplifier	HP	8447D	2944A07676	12/13/2022	12/12/2023
Attenuator	Mini-Circuit	BW-S10W2+	4	12/13/2022	12/12/2023
Filter 5150-5350 MHz	Micro-Tronics	BRM50703	1	12/13/2022	12/12/2023
Filter 5470-5725 MHz	Micro-Tronics	BRM50704	1	12/13/2022	12/12/2023
Filter 5725-5875 MHz	Micro-Tronics	BRM50705	1	12/13/2022	12/12/2023
High Pass Filter	WI	WHKX7.0/18G-8SS	45	12/13/2022	12/12/2023
Coaxial Cable	Huber Suhner	SUCOFLEX 104PEA	MY4251/4PEA	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-500	221104	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-1000	221103	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-1500	221110	12/13/2022	12/12/2023
Coaxial Cable	EMC Instruments	EMC 107-SM-SM-8000	221109	12/13/2022	12/12/2023
Site Cal	SGS	SAC 3	N/A	01/01/2023	12/31/2023
Test Software	audix	e3	Ver. 9 210322	N.C.R	N.C.R

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable

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

Frequency range MHz	Limits (dBuV)	
	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

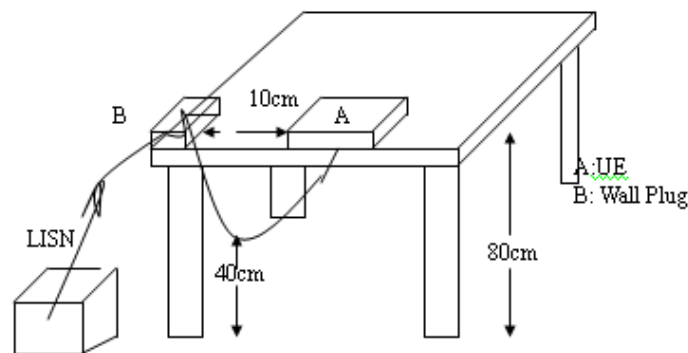
Note

- The lower limit shall apply at the transition frequencies
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

7.2 EUT Setup

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

7.3 Test SET-UP



7.4 Measurement Procedure

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

7.5 Measurement Result

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

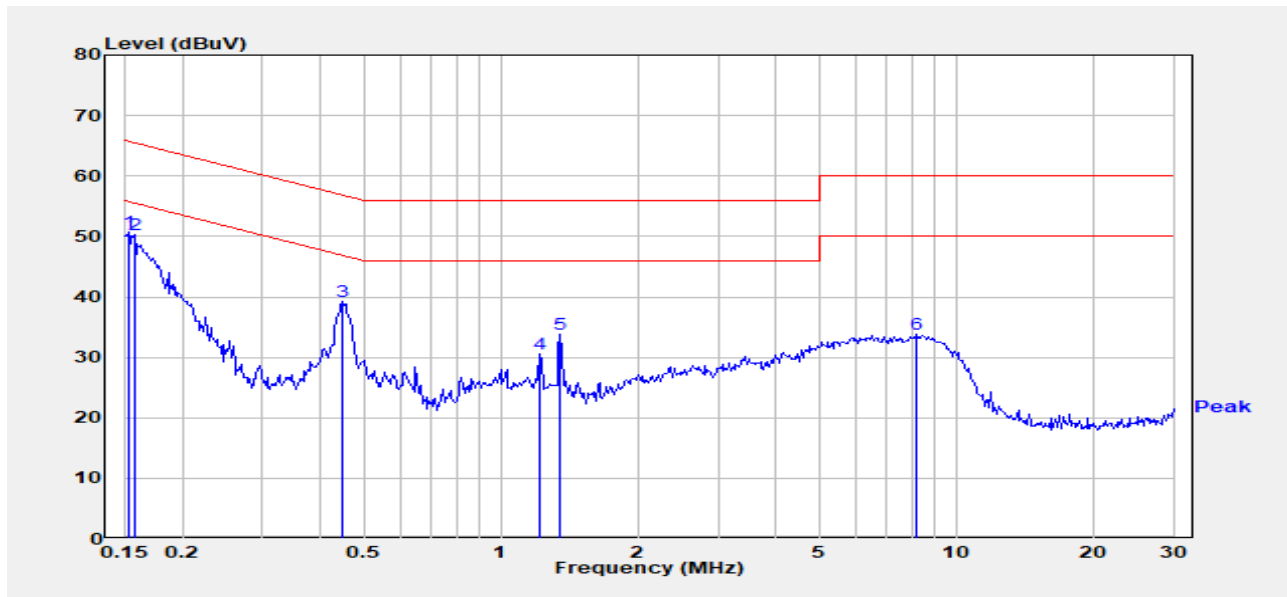
Note2: The * reveals the worst-case results that closest to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2305001082ER	Test Site	:Conduction 1
Test Mode	:Operation (WLAN5G)	Test Date	:2023-05-16
Power	:120V/60Hz	Temp./Humi.	:25.6/62
Probe	:L	Engineer	:Nick Lin
Note:	:Adapter A299-200150U-US		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.152	Peak	40.58	10.25	50.83	65.87	-15.04
0.157	Peak	40.00	10.25	50.25	65.62	-15.37
0.450	Peak	28.94	10.25	39.19	56.88	-17.69
1.220	Peak	19.97	10.57	30.53	56.00	-25.47
1.349	Peak	23.14	10.67	33.82	56.00	-22.18
8.195	Peak	23.13	10.61	33.75	60.00	-26.25

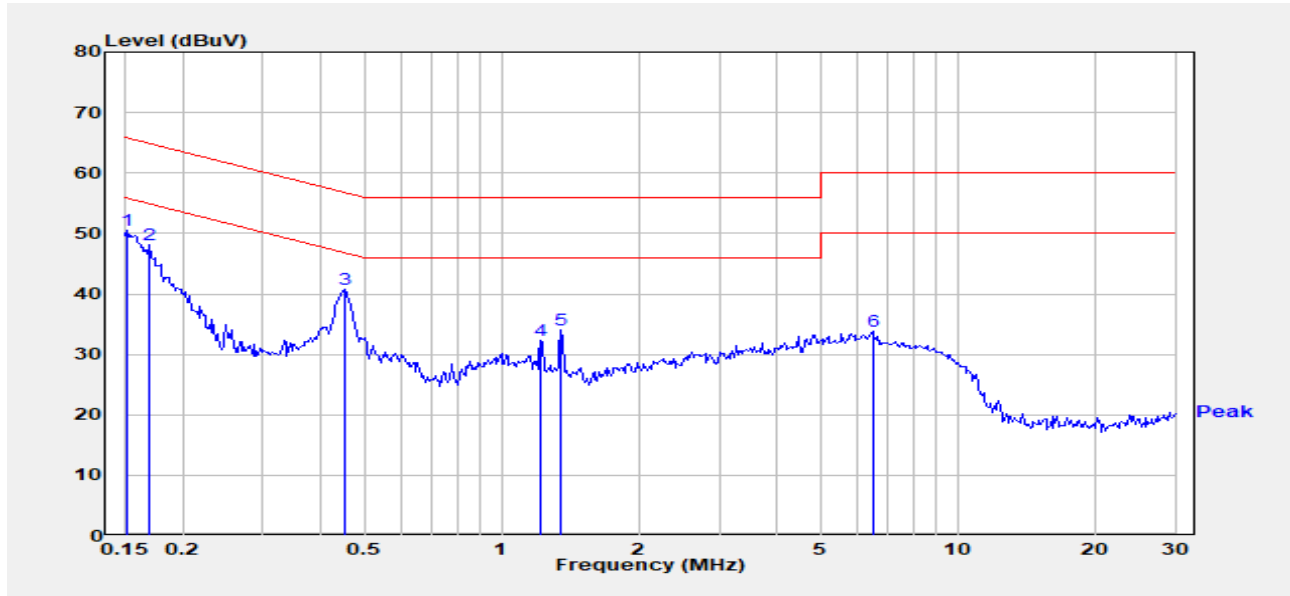
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Report Number :TERF2305001082ER
 Test Mode :Operation (WLAN5G)
 Power :120V/60Hz
 Probe :N
 Note: :Adapter A299-200150U-US

Test Site :Conduction 1
 Test Date :2023-05-16
 Temp./Humi. :25.6/62
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	Peak	40.17	10.25	50.42	65.94	-15.52
0.168	Peak	37.97	10.25	48.22	65.04	-16.82
0.453	Peak	30.52	10.25	40.77	56.82	-16.05
1.220	Peak	21.78	10.57	32.35	56.00	-23.65
1.349	Peak	23.34	10.67	34.01	56.00	-21.99
6.509	Peak	23.22	10.58	33.80	60.00	-26.20

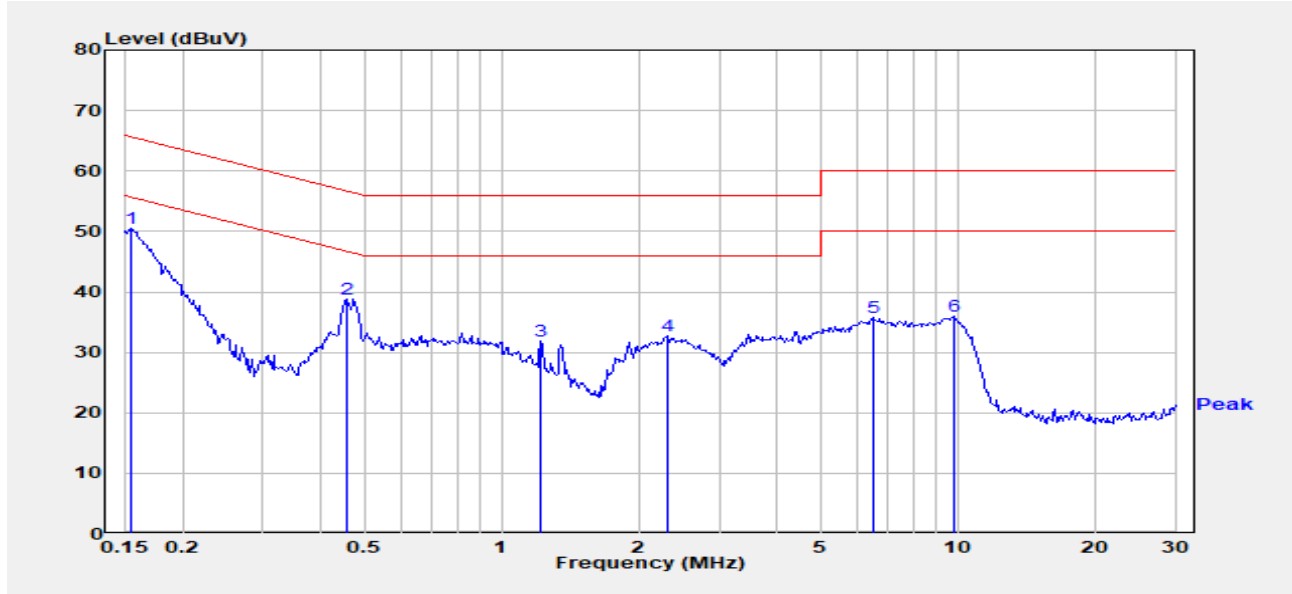
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Report Number :TERF2305001082ER
 Test Mode :Operation (WLAN5G)
 Power :240V/60Hz
 Probe :L
 Note: :Adapter A299-200150U-US

Test Site :Conduction 1
 Test Date :2023-05-16
 Temp./Humi. :25.6/62
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.153	Peak	40.33	10.25	50.58	65.81	-15.23
0.457	Peak	28.49	10.25	38.74	56.75	-18.01
1.220	Peak	21.37	10.57	31.94	56.00	-24.06
2.308	Peak	21.71	10.99	32.70	56.00	-23.30
6.509	Peak	25.21	10.58	35.79	60.00	-24.21
9.853	Peak	25.35	10.64	35.99	60.00	-24.01

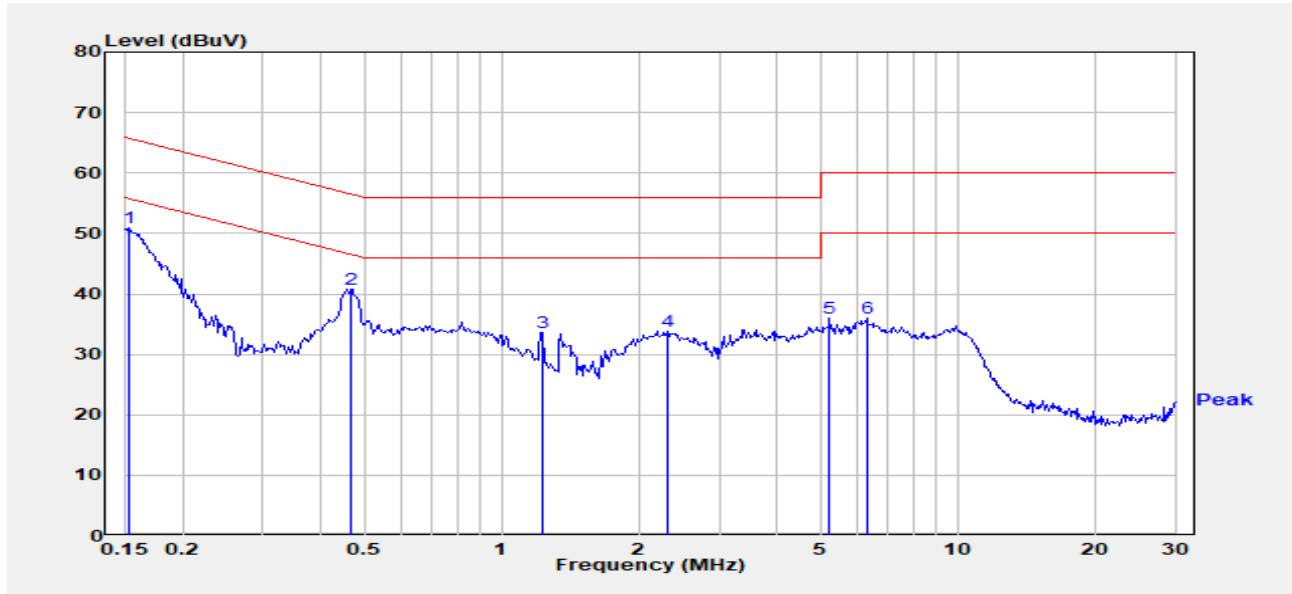
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Report Number :TERF2305001082ER
 Test Mode :Operation (WLAN5G)
 Power :240V/60Hz
 Probe :N
 Note: :Adapter A299-200150U-US

Test Site :Conduction 1
 Test Date :2023-05-16
 Temp./Humi. :25.6/62
 Engineer :Nick Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.152	Peak	40.63	10.25	50.88	65.87	-14.99
0.467	Peak	30.58	10.25	40.83	56.56	-15.73
1.230	Peak	23.09	10.57	33.67	56.00	-22.33
2.308	Peak	22.78	11.00	33.77	56.00	-22.23
5.249	Peak	25.41	10.56	35.97	60.00	-24.03
6.312	Peak	25.32	10.58	35.90	60.00	-24.10

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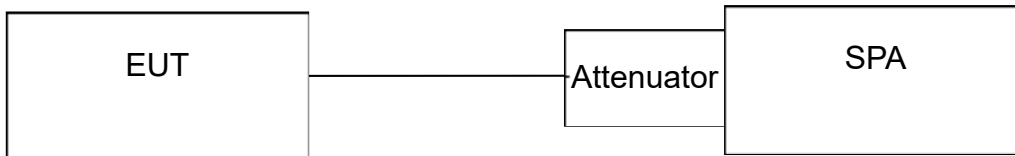
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8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.
The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3.

8.2 Test Setup



8.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. Repeat above procedures until all frequency of interest measured was complete.

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8.4 Measurement Result

8.4.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.49	13.520
5220	23.56	13.720
5240	23.23	13.660
5260	22.30	13.480
5300	22.30	13.480
5320	24.50	13.890
5500	23.10	13.640
5580	25.05	13.990
5700	22.81	13.580
5720(U-NII 2C)	16.56	12.190
5720(U-NII 3)	6.56	8.170

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	22.67	13.550
5220	22.95	13.610
5240	23.23	13.660
5260	23.44	13.700
5300	23.22	13.660
5320	23.12	13.640
5500	23.34	13.680
5580	22.57	13.540
5700	22.99	13.620
5720(U-NII 2C)	16.31	12.120
5720(U-NII 3)	6.31	8.000

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.35	12.140
5785	16.41	12.150
5825	16.39	12.150

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.37	12.140
5785	16.30	12.120
5825	16.35	12.140

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.60	< 5250
5745	5735.55	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.54	< 5250
5745	5735.69	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.24	13.660
5220	23.39	13.690
5240	23.28	13.670
5260	23.39	13.690
5300	23.69	13.750
5320	23.51	13.710
5500	23.46	13.700
5580	23.19	13.650
5700	23.02	13.620
5720(U-NII 2C)	16.81	12.260
5720(U-NII 3)	6.81	8.330

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.09	13.630
5220	23.38	13.690
5240	23.18	13.650
5260	23.15	13.650
5300	22.81	13.580
5320	23.02	13.620
5500	23.06	13.630
5580	23.44	13.700
5700	23.21	13.660
5720(U-NII 2C)	16.72	12.230
5720(U-NII 3)	6.72	8.270

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.65	12.470
5785	17.82	12.510
5825	17.82	12.510

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.78	12.500
5785	17.81	12.510
5825	17.63	12.460

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.03	< 5250
5745	5735.91	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.02	< 5250
5745	5735.83	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	44.67	16.500
5230	48.89	16.890
5270	49.89	16.980
5310	44.18	16.450
5510	44.78	16.510
5550	50.00	16.990
5670	44.68	16.500
5710(U-NII 2C)	39.54	15.970
5710(U-NII 3)	9.54	9.800

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	43.86	16.420
5230	50.00	16.990
5270	47.69	16.780
5310	43.81	16.420
5510	43.43	16.380
5550	50.00	16.990
5670	44.25	16.460
5710(U-NII 2C)	39.64	15.980
5710(U-NII 3)	9.64	9.840

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.56	15.630
5795	36.57	15.630

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.42	15.610
5795	36.44	15.620

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.33	< 5250
5755	5736.81	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.31	< 5250
5755	5736.82	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	91.35	19.610
5290	90.99	19.590
5530	90.11	19.550
5610	95.22	19.790
5690(U-NII 2C)	83.96	19.240
5690(U-NII 3)	13.96	11.450

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.35	18.830

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.12	< 5250
5775	5736.97	174

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	88.97	19.490
5290	89.37	19.510
5530	88.75	19.480
5610	90.17	19.550
5690(U-NII 2C)	81.57	19.120
5690(U-NII 3)	11.57	10.640

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.44	18.830

802.11ac_VHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.34	< 5250
5775	5737.02	170

802.11ac_VHT160_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	172.80	22.380
5570	174.50	22.420

802.11ac_VHT160_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5250	171.60	22.350
5570	170.10	22.310

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802.11be_EHT20_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.54	13.530
5220	full	23.32	13.680
5240	full	23.08	13.630
5260	full	22.88	13.590
5300	full	27.09	14.330
5320	full	22.25	13.470
5500	full	22.66	13.550
5580	full	22.79	13.580
5700	full	22.79	13.580
5720 (U-NII 2C)	full	16.65	12.210
5720 (U-NII 3)	full	6.65	8.220

802.11be_EHT20_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5180	full	22.96	13.610
5220	full	23.53	13.720
5240	full	22.69	13.560
5260	full	22.72	13.560
5300	full	22.38	13.500
5320	full	22.75	13.570
5500	full	23.09	13.630
5580	full	22.69	13.560
5700	full	23.97	13.800
5720 (U-NII 2C)	full	16.30	12.120
5720 (U-NII 3)	full	6.30	7.990

802.11be_EHT20_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	18.82	12.750
5785	full	18.63	12.700
5825	full	18.11	12.580

802.11be_EHT20_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5745	full	19.00	12.790
5785	full	18.68	12.710
5825	full	19.14	12.820

802.11be_EHT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.56	< 5250
5745	5735.40	> 5725

802.11be_EHT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5249.55	< 5250
5745	5735.45	> 5725

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802.11be_EHT40_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	43.85	16.420
5230	full	49.77	16.970
5270	full	50.00	16.990
5310	full	43.34	16.370
5510	full	43.35	16.370
5550	full	50.00	16.990
5670	full	43.07	16.340
5710 (U-NII 2C)	full	36.72	15.650
5710 (U-NII 3)	full	6.72	8.270

802.11be_EHT40_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5190	full	43.37	16.370
5230	full	50.00	16.990
5270	full	50.00	16.990
5310	full	42.38	16.270
5510	full	42.82	16.320
5550	full	50.00	16.990
5670	full	42.73	16.310
5710 (U-NII 2C)	full	37.65	15.760
5710 (U-NII 3)	full	7.65	8.840

802.11be_EHT40_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	38.18	15.820
5795	full	38.04	15.800

802.11be_EHT40_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5755	full	38.05	15.800
5795	full	38.08	15.810

802.11be_EHT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.02	< 5250
5755	5735.99	> 5725

802.11be_EHT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5249.24	< 5250
5755	5736.03	> 5725

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802.11be_EHT80_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	87.94	19.440
5290	full	87.49	19.420
5530	full	87.21	19.410
5610	full	89.73	19.530
5690 (U-NII 2C)	full	77.91	18.920
5690 (U-NII 3)	full	7.91	8.980

802.11be_EHT80_Ch0

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	78.06	18.920

802.11be_EHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5249.05	< 5250
5775	5736.12	> 5725

802.11be_EHT80_Ch1

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5210	full	86.94	19.390
5290	full	85.55	19.320
5530	full	87.56	19.420
5610	full	87.84	19.440
5690 (U-NII 2C)	full	77.98	18.920
5690 (U-NII 3)	full	7.98	9.020

802.11be_EHT80_Ch1

Freq. (MHz)	RU config	6dB BW (MHz)	10 Log (B) (dB)
5775	full	78.09	18.930

802.11be_EHT80_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5248.91	< 5250
5775	5736.23	> 5725

802.11be_EHT160_Ch0

Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	173.00	22.380
5570	full	171.40	22.340

802.11be_EHT160_Ch1

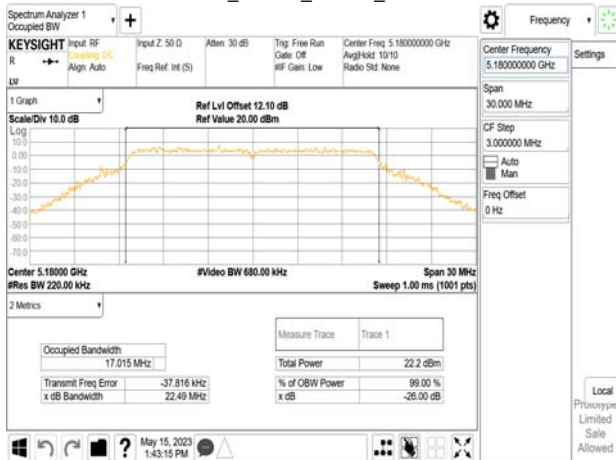
Freq. (MHz)	RU config	26dB BW (MHz)	10 Log (B) (dB)
5250	full	168.00	22.250
5570	full	169.90	22.300

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802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

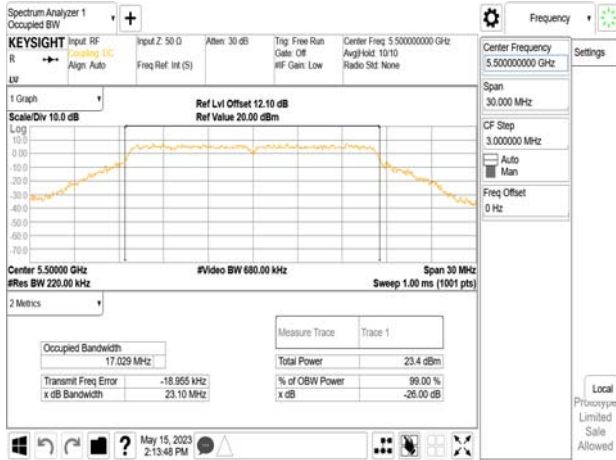


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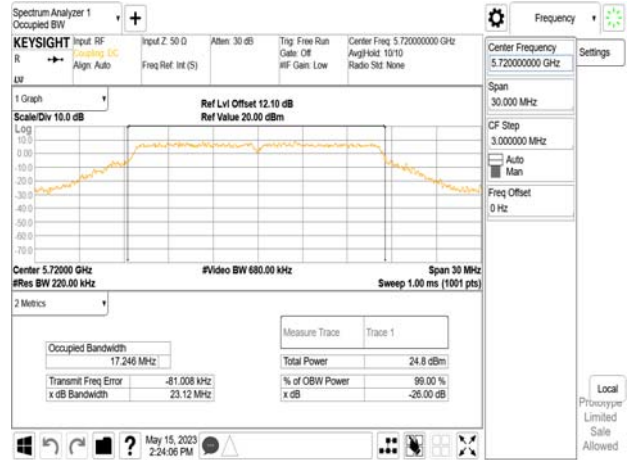
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802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz



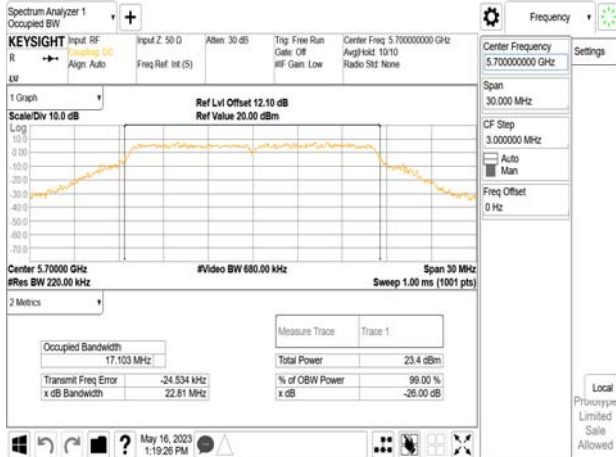
802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

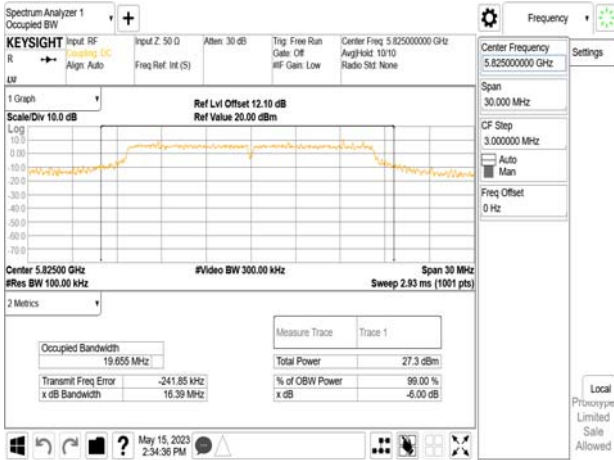


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802.11a_20MHz_Chain0_5825MHz



802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz

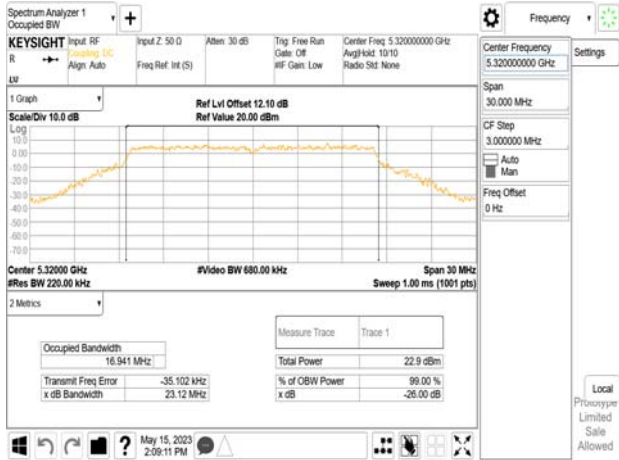


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802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz



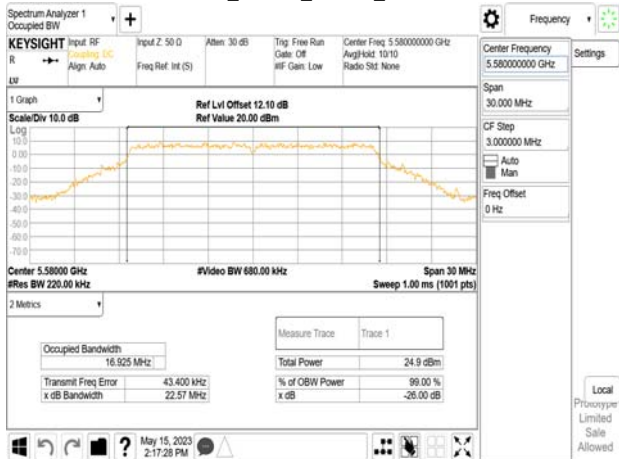
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz

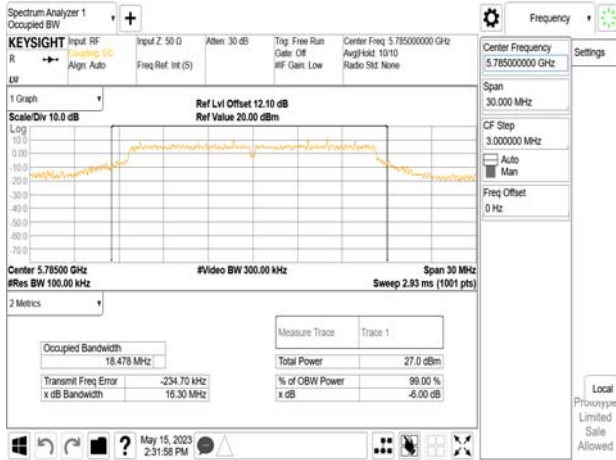


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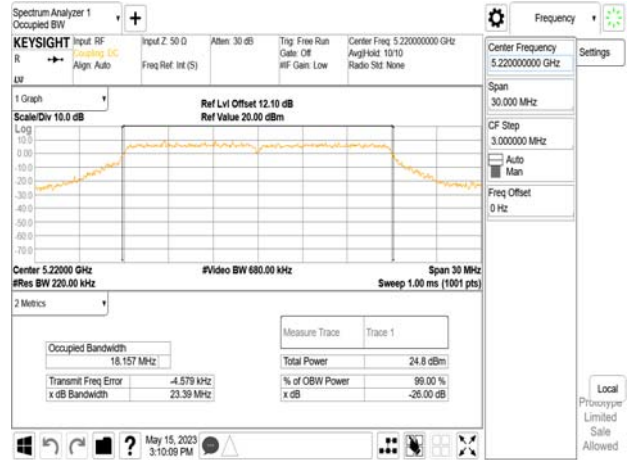
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802.11a_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz

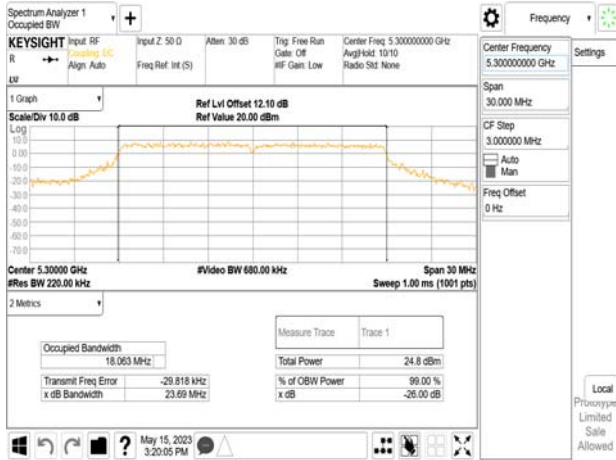


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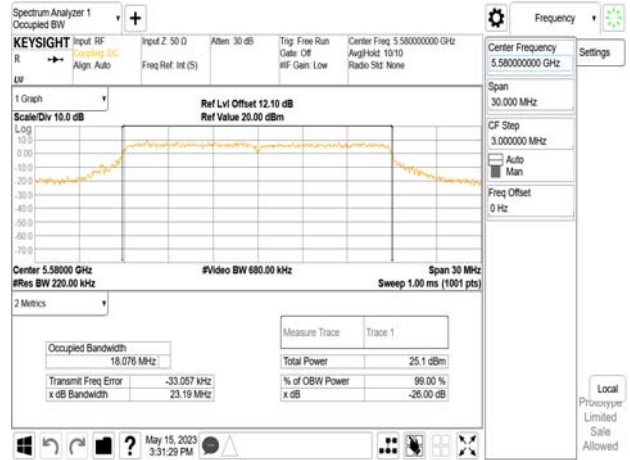
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802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5320MHz



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz



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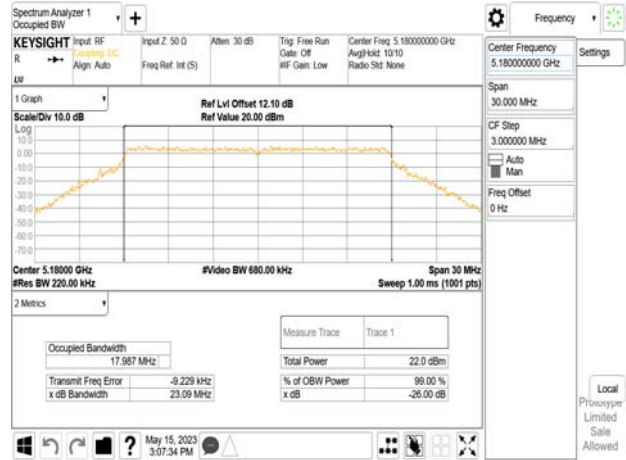
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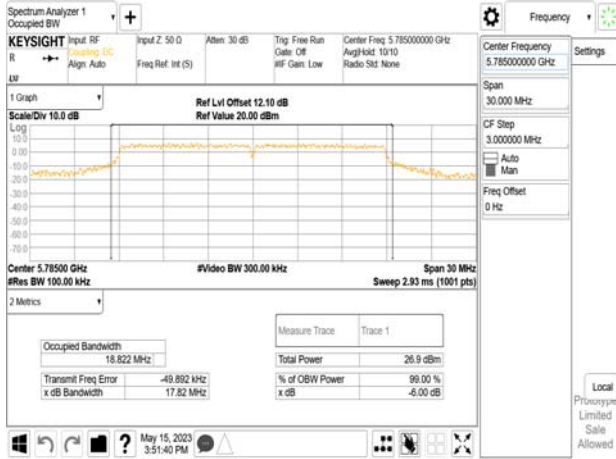
802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain1_5180MHz



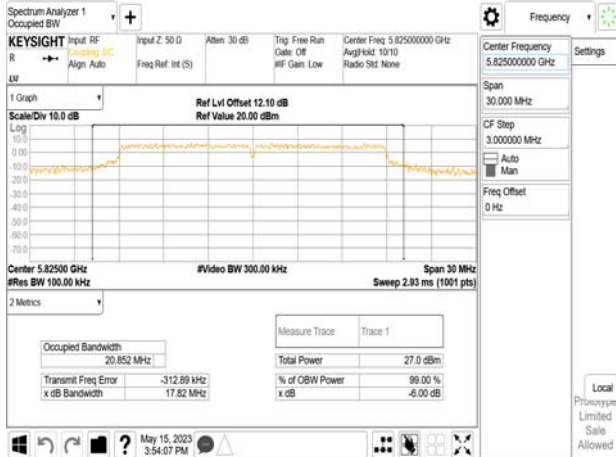
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain1_5240MHz

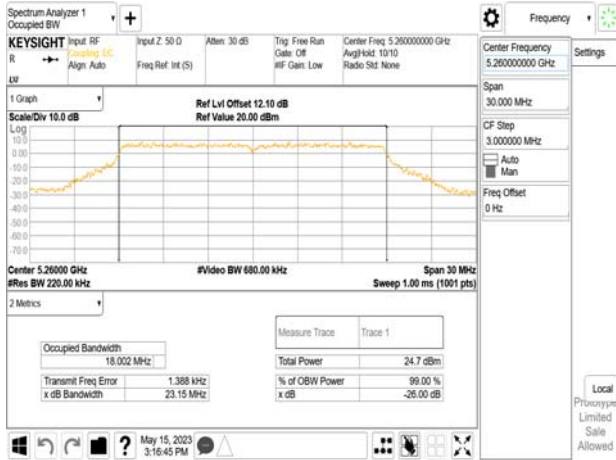


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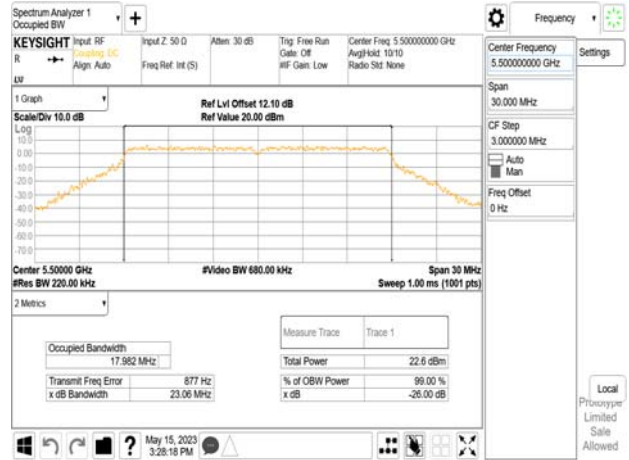
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802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz

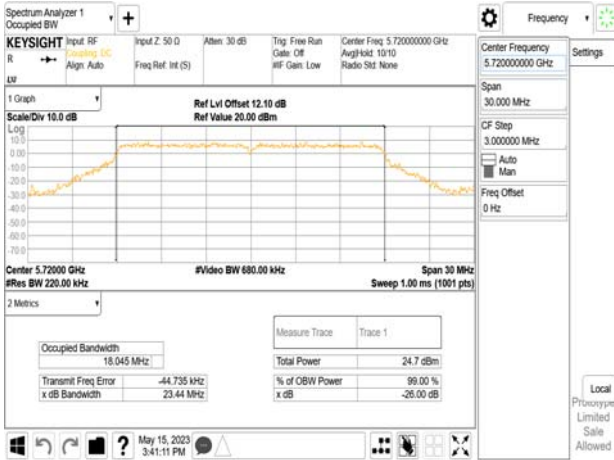


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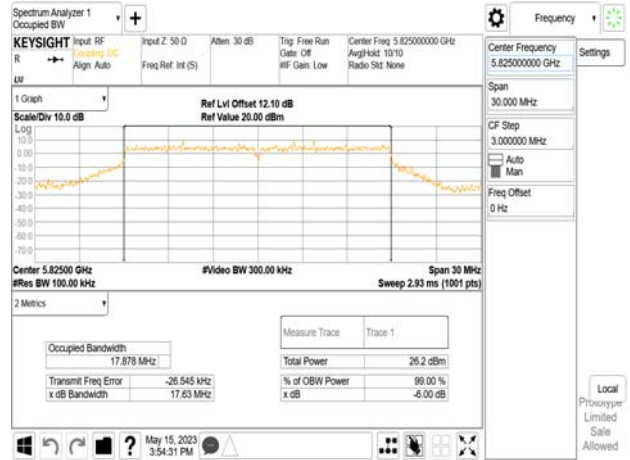
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802.11n_20MHz_Chain1_5720MHz



802.11n_20MHz_Chain1_5825MHz



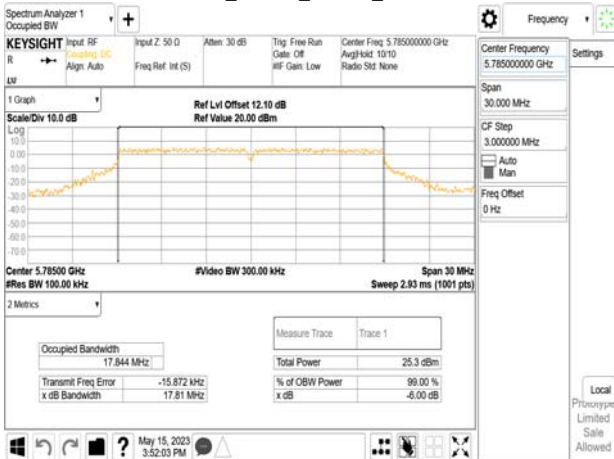
802.11n_20MHz_Chain1_5745MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz



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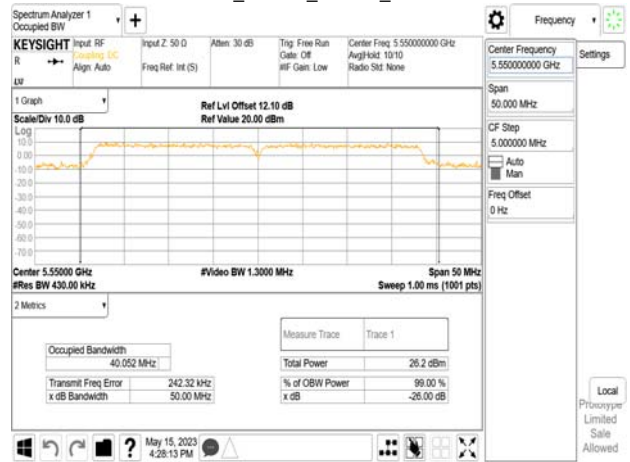
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802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz



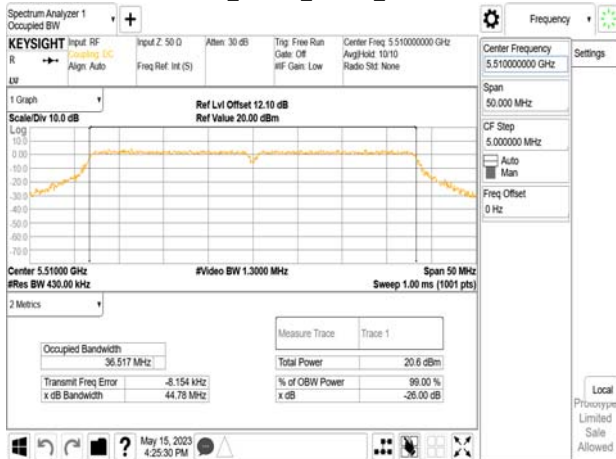
802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



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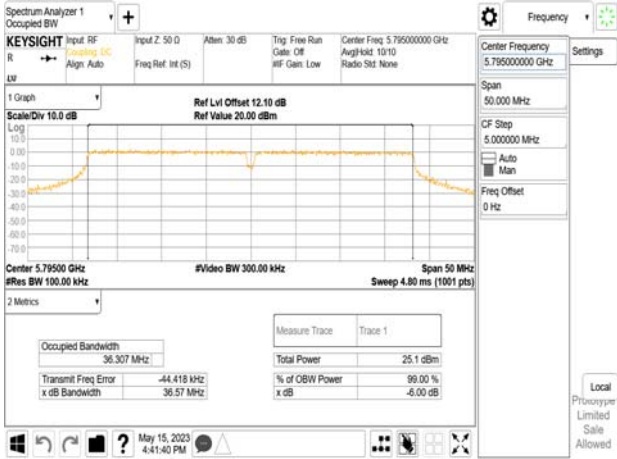
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz

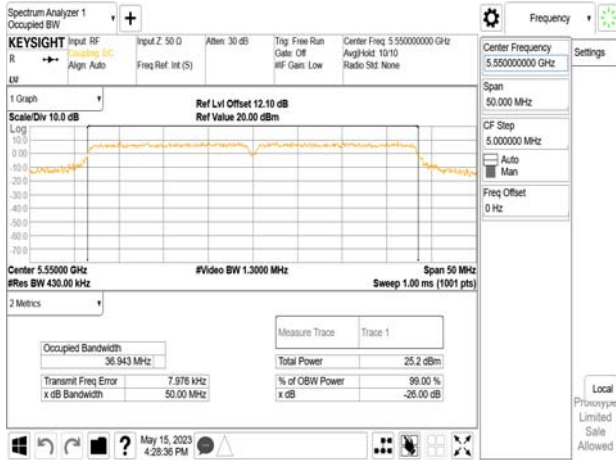


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802.11n_40MHz_Chain1_5550MHz



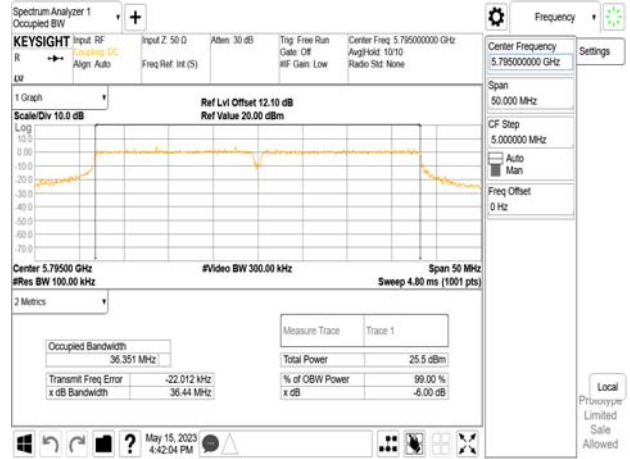
802.11n_40MHz_Chain1_5755MHz



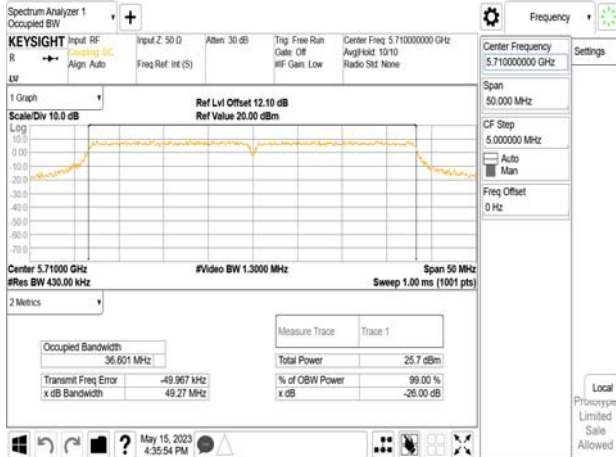
802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz



802.11n_40MHz_Chain1_5710MHz



802.11ac_80MHz_Chain0_5210MHz

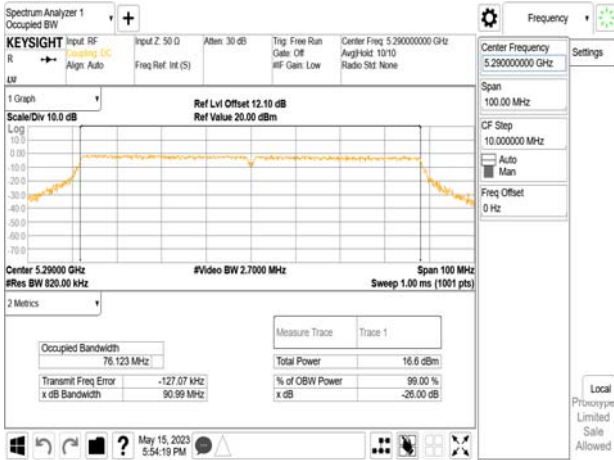


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802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain1_5210MHz



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802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



802.11ac_80MHz_Chain1_5610MHz



802.11ac_160MHz_Chain0_5250MHz



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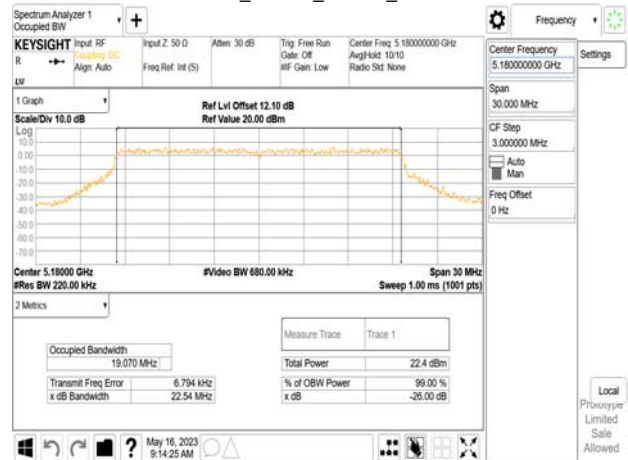
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802.11ac_160MHz_Chain0_5570MHz



802.11be_20MHz_Chain0_5180MHz



802.11ac_160MHz_Chain1_5250MHz



802.11be_20MHz_Chain0_5220MHz



802.11ac_160MHz_Chain1_5570MHz



802.11be_20MHz_Chain0_5240MHz

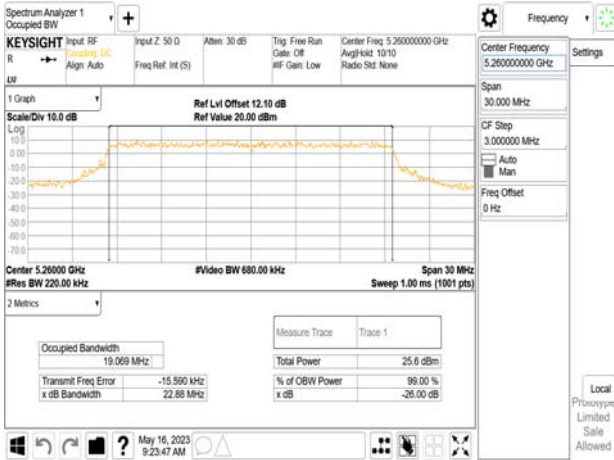


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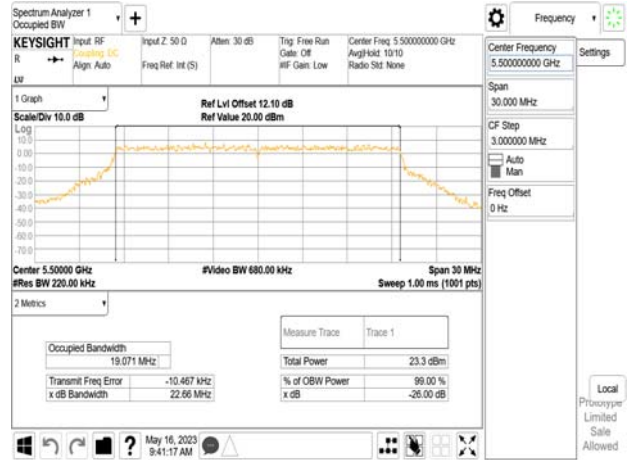
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802.11be_20MHz_Chain0_52600MHz



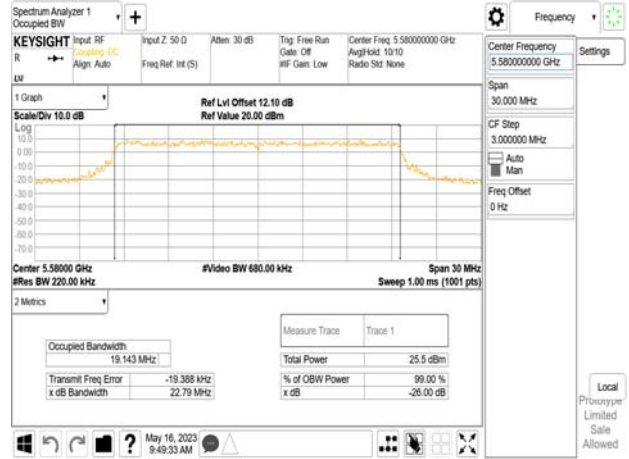
802.11be_20MHz_Chain0_55000MHz



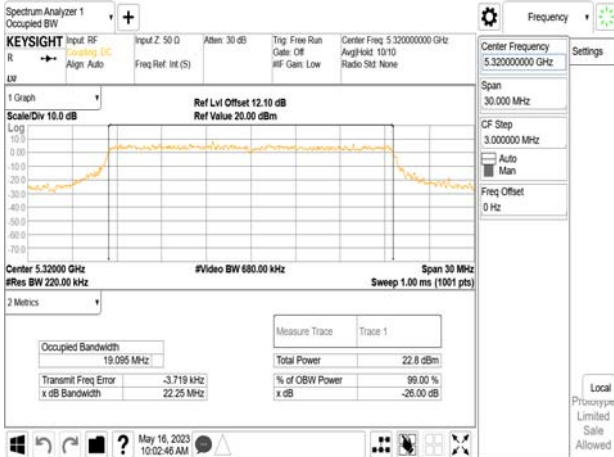
802.11be_20MHz_Chain0_53000MHz



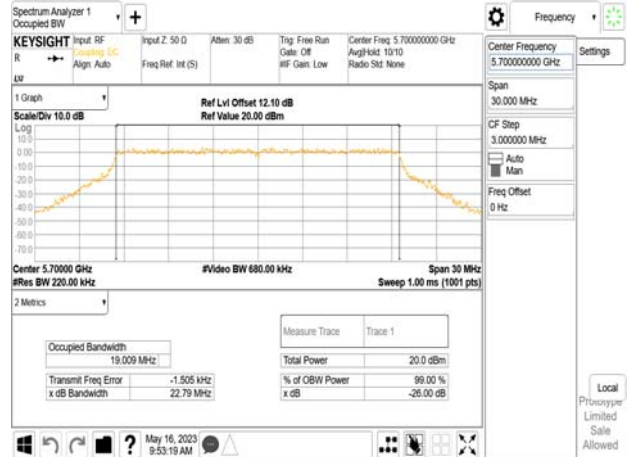
802.11be_20MHz_Chain0_55800MHz



802.11be_20MHz_Chain0_53200MHz



802.11be_20MHz_Chain0_57000MHz

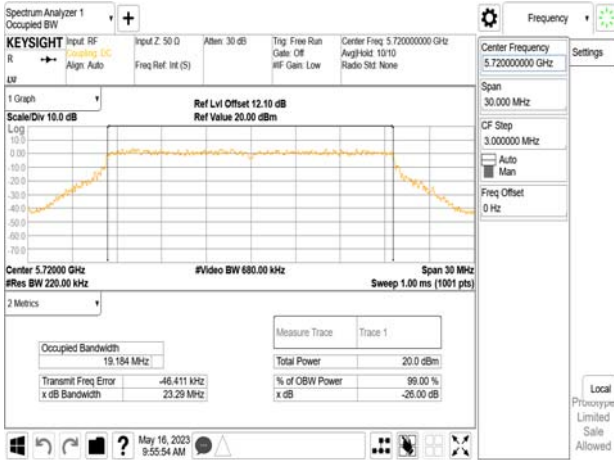


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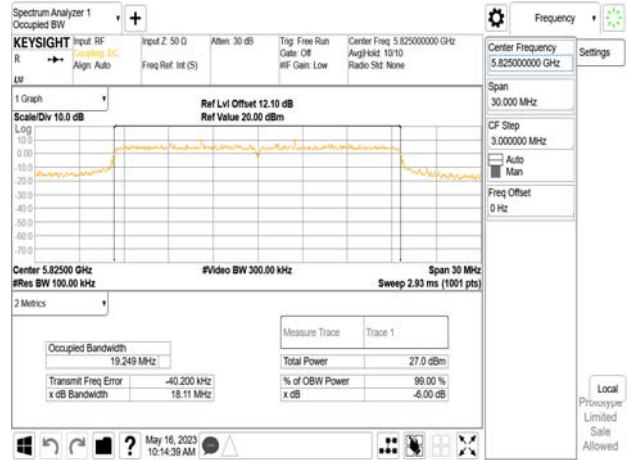
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802.11be_20MHz_Chain0_5720MHz



802.11be_20MHz_Chain0_5825MHz



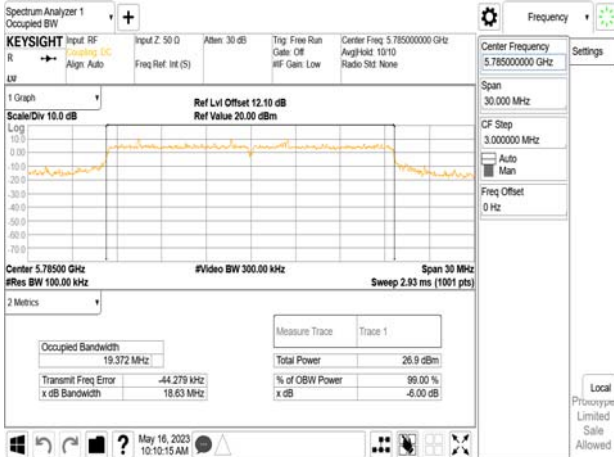
802.11be_20MHz_Chain0_5745MHz



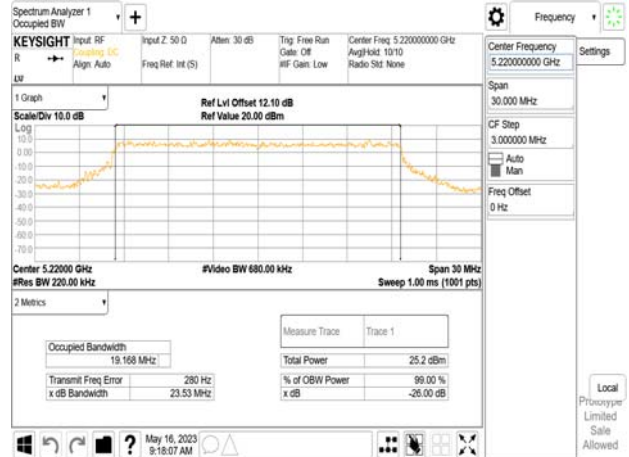
802.11be_20MHz_Chain1_5180MHz



802.11be_20MHz_Chain0_5785MHz



802.11be_20MHz_Chain1_5220MHz



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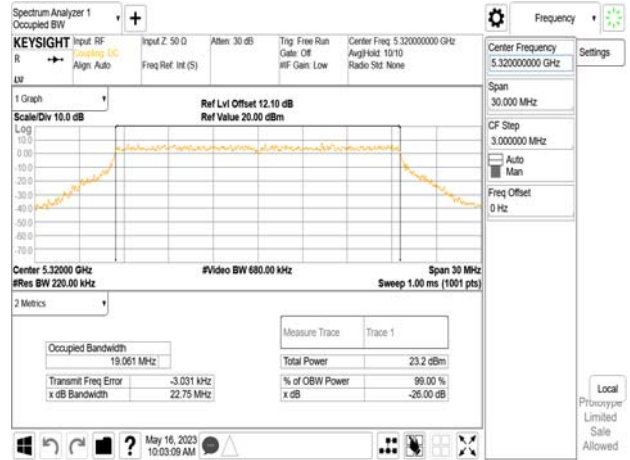
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802.11be_20MHz_Chain1_5240MHz



802.11be_20MHz_Chain1_5320MHz



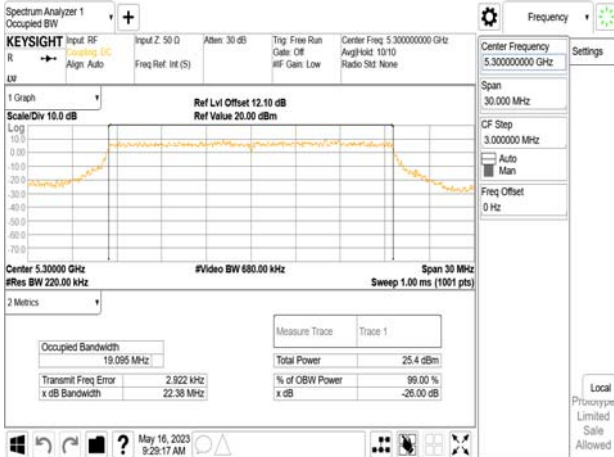
802.11be_20MHz_Chain1_5260MHz



802.11be_20MHz_Chain1_5500MHz



802.11be_20MHz_Chain1_5300MHz



802.11be_20MHz_Chain1_5580MHz

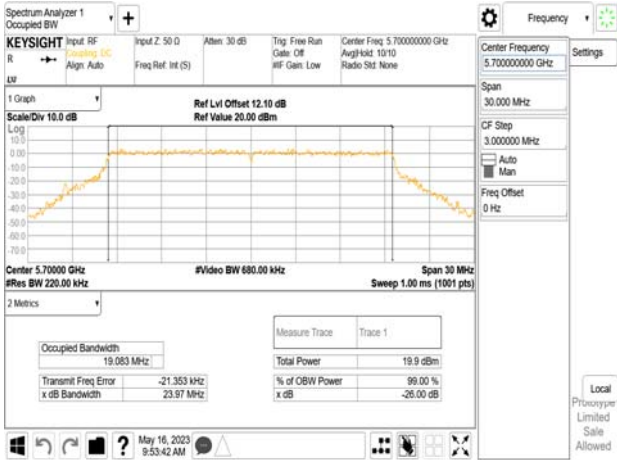


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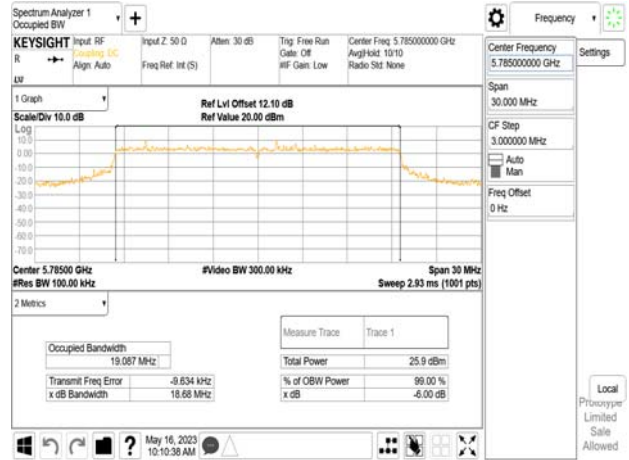
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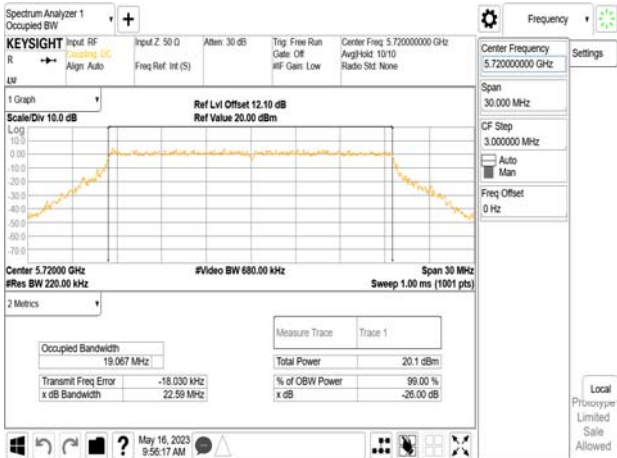
802.11be_20MHz_Chain1_5700MHz



802.11be_20MHz_Chain1_5785MHz



802.11be_20MHz_Chain1_5720MHz



802.11be_20MHz_Chain1_5825MHz



802.11be_20MHz_Chain1_5745MHz



802.11be_40MHz_Chain0_5190MHz



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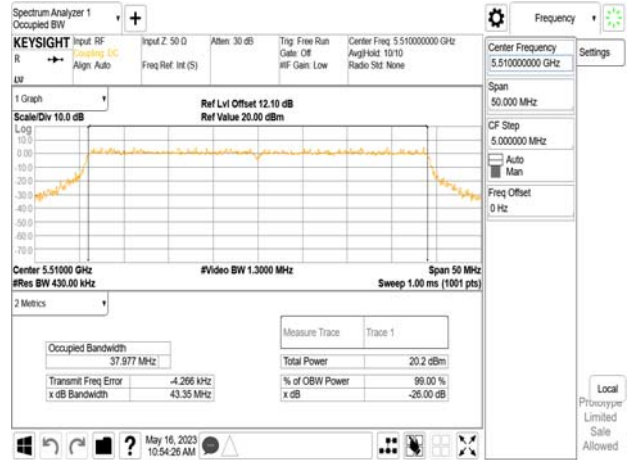
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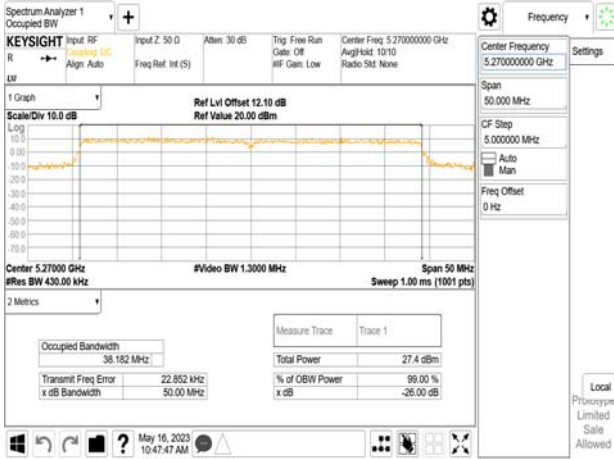
802.11be_40MHz_Chain0_5230MHz



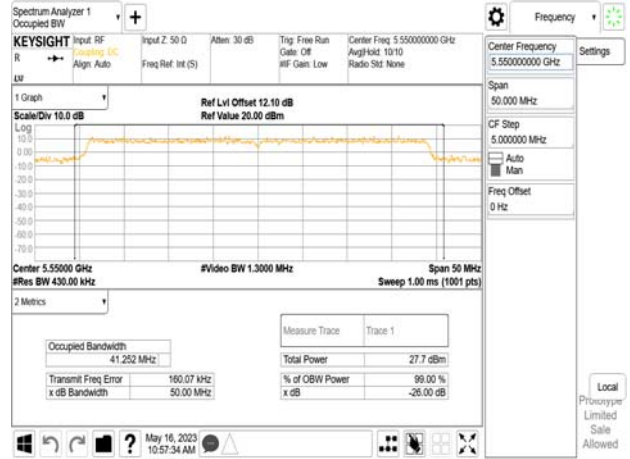
802.11be_40MHz_Chain0_5510MHz



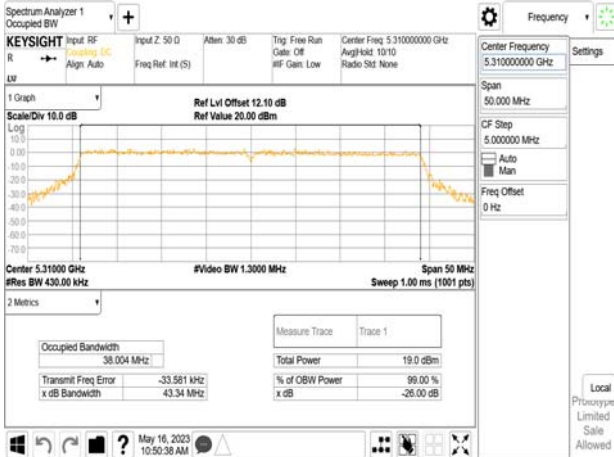
802.11be_40MHz_Chain0_5270MHz



802.11be_40MHz_Chain0_5550MHz



802.11be_40MHz_Chain0_5310MHz



802.11be_40MHz_Chain0_5670MHz

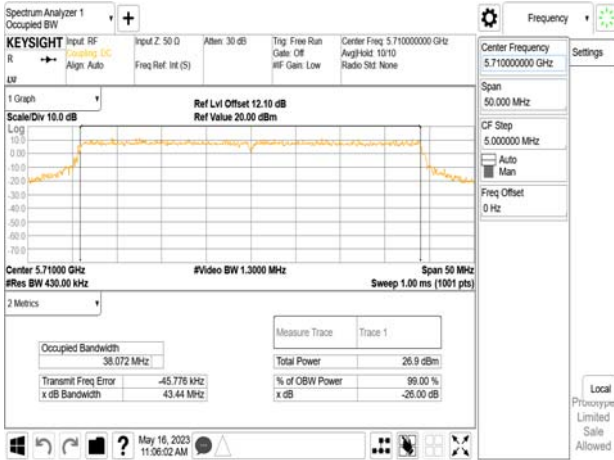


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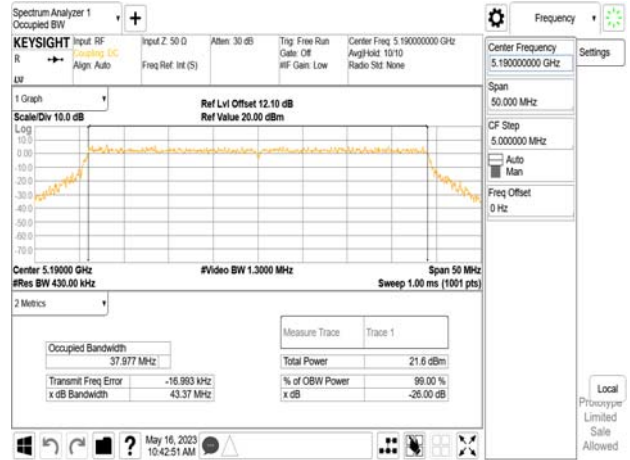
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802.11be_40MHz_Chain0_5710MHz



802.11be_40MHz_Chain1_5190MHz



802.11be_40MHz_Chain0_5755MHz



802.11be_40MHz_Chain1_5230MHz



802.11be_40MHz_Chain0_5795MHz



802.11be_40MHz_Chain1_5270MHz



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802.11be_40MHz_Chain1_5310MHz



802.11be_40MHz_Chain1_5670MHz



802.11be_40MHz_Chain1_5510MHz



802.11be_40MHz_Chain1_5710MHz



802.11be_40MHz_Chain1_5550MHz



802.11be_40MHz_Chain1_5755MHz



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802.11be_40MHz_Chain1_5795MHz



802.11be_80MHz_Chain0_5530MHz



802.11be_80MHz_Chain0_5210MHz



802.11be_80MHz_Chain0_5610MHz



802.11be_80MHz_Chain0_5290MHz



802.11be_80MHz_Chain0_5690MHz



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802.11be_80MHz_Chain0_5775MHz



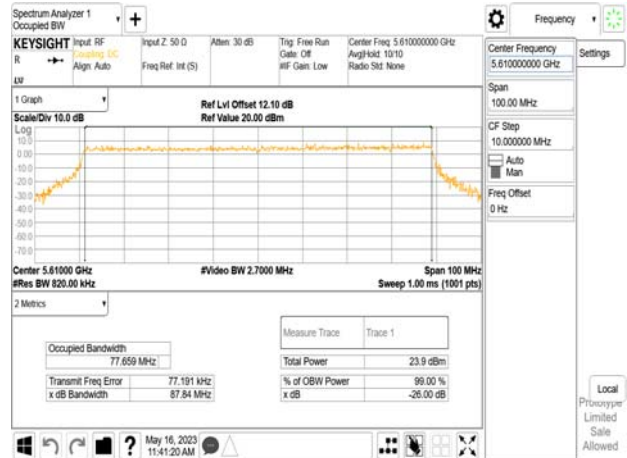
802.11be_80MHz_Chain1_5530MHz



802.11be_80MHz_Chain1_5210MHz



802.11be_80MHz_Chain1_5610MHz



802.11be_80MHz_Chain1_5290MHz



802.11be_80MHz_Chain1_5690MHz



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802.11be_80MHz_Chain1_5775MHz



802.11be_160MHz_Chain1_5250MHz



802.11be_160MHz_Chain0_5250MHz



802.11be_160MHz_Chain1_5570MHz



802.11be_160MHz_Chain0_5570MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

9.1.1 Duty Cycle

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.

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9.1.2 FCC

Band	EUT CATEGORY		e-CRF Title 47 §15.407			
			Conducted Output Power	EIRP	TPC	Antenna Directional Gain Requirements
U-NII-1		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	23dBi
		Out door AP	1 Watt(30dBm)	Elevation angle above 30 degrees 125mW (21dBm)	Not required	6dBi
		Indoor AP	1 Watt(30dBm)	Not required	Not required	6dBi
	V	Other	250mW(23.98dBm)	Not required	Not required	6dBi
U-NII-2A	V	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	V	Other	250mW(23.98dBm) or 11dBm+10 log B	Not required		6dBi
U-NII-3	V	Other	1 Watt(30dBm)	Not required	Not required	6dBi
		Fixed point-to-point	1 Watt(30dBm)	Not required	Not required	Not required
U-NII-4		Indoor AP (a channel spans 5725~5850 and 5850~5895MHz)	Not required	36dBm	Not required	Not required
		indoor client (a channel spans 5725~5850 and 5850~5895MHz)	Not required	30dBm	Not required	Not required
		subordinate device	Not required	36dBm	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.

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

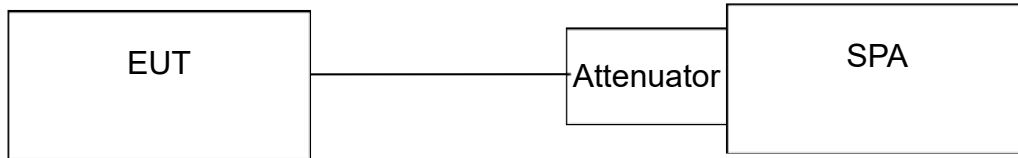
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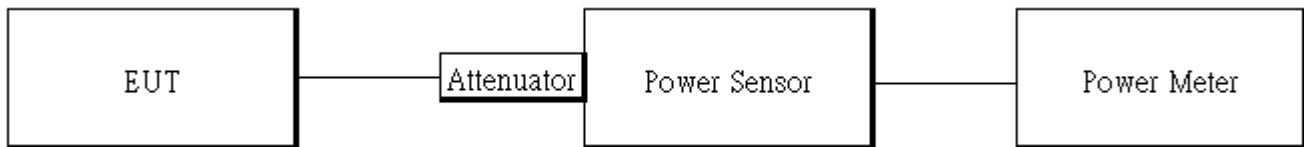
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9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



9.3 Measurement Procedure

9.3.1 Duty Cycle Measurements

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

9.3.2 Output Power Measurements

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
4. Power Meter is used as the auxiliary test equipment to conduct the output power measurement.
5. Record the max. reading and add $10 \log(1/\text{duty cycle})$.
6. 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.

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Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

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9.4 Duty Cycle Measurement Result

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	99.24	0.03	0.48	0.01
802.11n_20	99.67	0.01	0.19	0.01
802.11ac_20	99.67	0.01	0.19	0.01
802.11n_40	99.65	0.02	0.19	0.01
802.11ac_40	99.65	0.02	0.19	0.01
802.11ac_80	99.34	0.03	0.37	0.01
802.11ac_160	98.87	0.05	0.63	0.01
802.11ax_20	99.67	0.01	0.18	0.01
802.11ax_40	99.56	0.02	0.24	0.01
802.11ax_80	99.19	0.04	0.45	0.01
802.11ax_160	98.80	0.05	0.76	0.01
802.11be_20	99.67	0.01	0.18	0.01
802.11be_40	99.56	0.02	0.24	0.01
802.11be_80	99.20	0.03	0.45	0.01
802.11be_160	98.65	0.06	0.76	0.01

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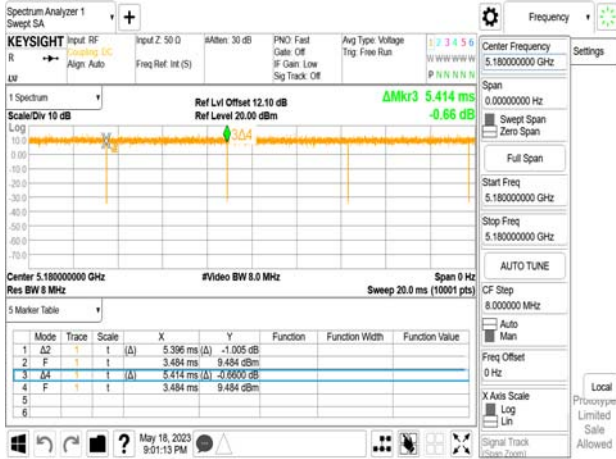
802.11a_20MHz_Chain0_5180MHz



802.11ac_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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802.11ac_160MHz_Chain0_5250MHz



802.11ax_80MHz_Chain0_5210MHz



802.11ax_20MHz_Chain0_5180MHz



802.11ax_160MHz_Chain0_5250MHz



802.11ax_40MHz_Chain0_5190MHz



802.11be_20MHz_Chain0_5180MHz



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802.11be_40MHz_Chain0_5190MHz



802.11be_160MHz_Chain0_5250MHz



802.11be_80MHz_Chain0_5210MHz



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9.5 Output Power Measurement Result

9.5.1 FCC Output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	17	16.46	44.291	23.98	PASS
44	5220	6	19.5	19.03	80.041	23.98	PASS
48	5240	6	19.5	19.05	80.411	23.98	PASS
52	5260	6	19.5	19.18	82.854	23.98	PASS
60	5300	6	19.5	19.11	81.529	23.98	PASS
64	5320	6	17.5	16.84	48.341	23.98	PASS
100	5500	6	18.5	17.92	61.989	23.98	PASS
116	5580	6	19.5	19.12	81.717	23.98	PASS
140	5700	6	18	17.44	55.503	23.98	PASS
144	5720(U-NII 2C)	6	19.5	17.56	57.07	23.19	PASS
144	5720 (U-NII 3)	6	19.5	13.54	22.61	30	PASS
149	5745	6	21.5	21.05	127.442	30	PASS
157	5785	6	21.5	21.02	126.565	30	PASS
165	5825	6	21.5	21.10	128.918	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	17.5	16.40	43.683	23.98	PASS
44	5220	6	19.5	18.64	73.167	23.98	PASS
48	5240	6	19.5	18.79	75.738	23.98	PASS
52	5260	6	19.5	18.77	75.390	23.98	PASS
60	5300	6	19.5	19.03	80.041	23.98	PASS
64	5320	6	17.5	16.59	45.637	23.98	PASS
100	5500	6	18.5	17.57	57.189	23.98	PASS
116	5580	6	19.5	19.08	80.968	23.98	PASS
140	5700	6	18	17.24	53.005	23.98	PASS
144	5720(U-NII 2C)	6	19.5	17.07	50.97	23.12	PASS
144	5720 (U-NII 3)	6	19.5	12.95	19.71	30	PASS
149	5745	6	22	20.91	123.399	30	PASS
157	5785	6	22	20.95	124.541	30	PASS
165	5825	6	22	20.89	122.832	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	6	17.5	16.47	16.41	19.45	88.177	23.98	PASS
44	5220	6	20	19.09	18.89	22.00	158.657	23.98	PASS
48	5240	6	20	19.29	19.00	22.16	164.469	23.98	PASS
52	5260	6	20	19.32	19.10	22.22	166.910	23.98	PASS
60	5300	6	20	19.45	19.12	22.30	169.886	23.98	PASS
64	5320	6	18	17.17	17.04	20.12	102.776	23.98	PASS
100	5500	6	19	18.01	18.00	21.02	126.428	23.98	PASS
116	5580	6	20	19.56	19.18	22.39	173.284	23.98	PASS
140	5700	6	18.5	17.69	17.39	20.56	113.659	23.98	PASS
144	5720(U-NII 2C)	6	20	17.61	17.56	20.63	115.584	23.12	PASS
144	5720 (U-NII 3)	6	20	13.59	13.44	16.56	45.244	30	PASS
149	5745	6	22.5	21.37	21.34	24.37	273.430	30	PASS
157	5785	6	22.5	21.31	21.25	24.29	268.753	30	PASS
165	5825	6	22.5	21.45	21.36	24.42	276.609	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	16.39	43.595	23.98	PASS
44	5220	MCS0	19.5	19.02	79.880	23.98	PASS
48	5240	MCS0	19.5	19.11	81.552	23.98	PASS
52	5260	MCS0	19.5	19.15	82.307	23.98	PASS
60	5300	MCS0	19.5	19.11	81.552	23.98	PASS
64	5320	MCS0	17	16.31	42.799	23.98	PASS
100	5500	MCS0	17.5	16.99	50.054	23.98	PASS
116	5580	MCS0	20	19.73	94.067	23.98	PASS
140	5700	MCS0	15	14.26	26.695	23.98	PASS
144	5720(U-NII 2C)	MCS0	19.5	17.53	56.58	23.98	PASS
144	5720 (U-NII 3)	MCS0	19.5	13.60	22.93	30	PASS
149	5745	MCS0	21.5	21.00	126.019	30	PASS
157	5785	MCS0	21.5	21.05	127.478	30	PASS
165	5825	MCS0	21.5	20.96	124.864	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17.5	16.37	43.395	23.98	PASS
44	5220	MCS0	19.5	18.68	73.864	23.98	PASS
48	5240	MCS0	19.5	18.82	76.284	23.98	PASS
52	5260	MCS0	19.5	18.83	76.460	23.98	PASS
60	5300	MCS0	19.5	19.04	80.248	23.98	PASS
64	5320	MCS0	17	16.13	41.062	23.98	PASS
100	5500	MCS0	18	16.90	49.027	23.98	PASS
116	5580	MCS0	20	19.57	90.664	23.98	PASS
140	5700	MCS0	14.5	13.78	23.902	23.98	PASS
144	5720(U-NII 2C)	MCS0	19.5	17.07	50.90	23.98	PASS
144	5720 (U-NII 3)	MCS0	19.5	13.11	20.46	30	PASS
149	5745	MCS0	22	20.96	124.864	30	PASS
157	5785	MCS0	22	20.91	123.434	30	PASS
165	5825	MCS0	21.5	20.75	118.969	30	PASS

802.11n_HT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	17.5	16.51	16.42	19.48	88.713	23.98	PASS
44	5220	MCS0	20	19.17	19.07	22.13	163.491	23.98	PASS
48	5240	MCS0	20	19.39	19.24	22.33	171.013	23.98	PASS
52	5260	MCS0	20	19.33	19.27	22.31	170.402	23.98	PASS
60	5300	MCS0	20	19.42	19.34	22.39	173.574	23.98	PASS
64	5320	MCS0	17.5	16.60	16.43	19.53	89.753	23.98	PASS
100	5500	MCS0	18	17.08	17.05	20.08	101.852	23.98	PASS
116	5580	MCS0	20.5	20.17	19.98	23.09	203.737	23.98	PASS
140	5700	MCS0	15	14.34	13.90	17.14	51.763	23.98	PASS
144	5720(U-NII 2C)	MCS0	20	17.66	17.50	20.60	114.761	23.23	PASS
144	5720 (U-NII 3)	MCS0	20	13.73	13.54	16.66	46.322	30	PASS
149	5745	MCS0	22.5	21.44	21.40	24.43	277.632	30	PASS
157	5785	MCS0	22.5	21.49	21.38	24.45	278.612	30	PASS
165	5825	MCS0	22	21.12	20.95	24.05	254.126	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14.5	14.44	27.767	23.98	PASS
46	5230	MCS0	20.5	20.67	116.553	23.98	PASS
54	5270	MCS0	20.5	20.62	115.219	23.98	PASS
62	5310	MCS0	14	14.00	25.091	23.98	PASS
102	5510	MCS0	15.5	15.60	36.268	23.98	PASS
110	5550	MCS0	20.5	20.61	114.954	23.98	PASS
134	5670	MCS0	16	15.97	39.493	23.98	PASS
142	5710(U-NII 2C)	MCS0	20.5	19.74	94.11	23.98	PASS
142	5710 (U-NII 3)	MCS0	20.5	13.56	22.71	30	PASS
151	5755	MCS0	18.5	18.60	72.364	30	PASS
159	5795	MCS0	19.5	19.61	91.311	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	15	14.40	27.512	23.98	PASS
46	5230	MCS0	20.5	20.35	108.274	23.98	PASS
54	5270	MCS0	20.5	20.20	104.598	23.98	PASS
62	5310	MCS0	14	13.70	23.417	23.98	PASS
102	5510	MCS0	16	15.49	35.361	23.98	PASS
110	5550	MCS0	20.5	20.27	106.297	23.98	PASS
134	5670	MCS0	16	15.83	38.240	23.98	PASS
142	5710(U-NII 2C)	MCS0	20.5	19.34	85.91	23.98	PASS
142	5710 (U-NII 3)	MCS0	20.5	13.20	20.88	30	PASS
151	5755	MCS0	18.5	18.06	63.903	30	PASS
159	5795	MCS0	19.5	19.12	81.569	30	PASS

802.11n_HT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	15	14.46	14.43	17.45	55.598	23.98	PASS
46	5230	MCS0	21	20.91	20.70	23.81	240.536	23.98	PASS
54	5270	MCS0	21	20.72	20.67	23.70	234.455	23.98	PASS
62	5310	MCS0	14.5	14.09	13.92	17.01	50.250	23.98	PASS
102	5510	MCS0	16.5	16.05	15.93	19.00	79.359	23.98	PASS
110	5550	MCS0	21	20.71	20.59	23.66	232.057	23.98	PASS
134	5670	MCS0	16.5	16.07	16.03	19.06	80.456	23.98	PASS
142	5710(U-NII 2C)	MCS0	21	19.76	19.49	22.66	184.319	23.98	PASS
142	5710 (U-NII 3)	MCS0	21	13.58	13.35	16.50	44.634	30	PASS
151	5755	MCS0	19	18.65	18.55	21.61	144.738	30	PASS
159	5795	MCS0	20	19.63	19.57	22.61	182.206	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17	16.38	43.495	23.98	PASS
44	5220	MCS0	19.5	19.00	79.513	23.98	PASS
48	5240	MCS0	19.5	19.07	80.804	23.98	PASS
52	5260	MCS0	19.5	19.09	81.177	23.98	PASS
60	5300	MCS0	19.5	19.10	81.365	23.98	PASS
64	5320	MCS0	17	16.30	42.701	23.98	PASS
100	5500	MCS0	17.5	16.98	49.939	23.98	PASS
116	5580	MCS0	20	19.70	93.419	23.98	PASS
140	5700	MCS0	14.5	13.90	24.572	23.98	PASS
144	5720(U-NII 2C)	MCS0	19.5	17.52	56.45	23.98	PASS
144	5720 (U-NII 3)	MCS0	19.5	13.59	22.88	30	PASS
149	5745	MCS0	21.5	20.98	125.440	30	PASS
157	5785	MCS0	21.5	20.91	123.434	30	PASS
165	5825	MCS0	21.5	20.93	124.004	30	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	17.5	16.36	43.295	23.98	PASS
44	5220	MCS0	19.5	18.67	73.695	23.98	PASS
48	5240	MCS0	19.5	18.78	75.585	23.98	PASS
52	5260	MCS0	19.5	18.74	74.892	23.98	PASS
60	5300	MCS0	19.5	18.98	79.147	23.98	PASS
64	5320	MCS0	17	16.12	40.967	23.98	PASS
100	5500	MCS0	18	16.88	48.802	23.98	PASS
116	5580	MCS0	20	19.53	89.833	23.98	PASS
140	5700	MCS0	14.5	13.72	23.574	23.98	PASS
144	5720(U-NII 2C)	MCS0	19.5	17.05	50.67	23.98	PASS
144	5720 (U-NII 3)	MCS0	19.5	13.09	20.36	30	PASS
149	5745	MCS0	22	20.92	123.719	30	PASS
157	5785	MCS0	22	20.89	122.867	30	PASS
165	5825	MCS0	21.5	20.68	117.067	30	PASS

802.11ac_VHT20_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	MCS0	17.5	16.50	16.41	19.47	88.509	23.98	PASS
44	5220	MCS0	20	19.09	19.00	22.06	160.690	23.98	PASS
48	5240	MCS0	20	19.29	19.09	22.21	166.181	23.98	PASS
52	5260	MCS0	20	19.30	19.10	22.22	166.564	23.98	PASS
60	5300	MCS0	20	19.36	19.17	22.28	169.071	23.98	PASS
64	5320	MCS0	17.5	16.59	16.39	19.51	89.244	23.98	PASS
100	5500	MCS0	18	17.06	16.98	20.03	100.805	23.98	PASS
116	5580	MCS0	20.5	20.11	19.69	22.92	195.872	23.98	PASS
140	5700	MCS0	15	14.16	13.80	17.00	50.100	23.98	PASS
144	5720(U-NII 2C)	MCS0	20	17.55	17.52	20.55	113.560	23.23	PASS
144	5720 (U-NII 3)	MCS0	20	13.62	13.56	16.61	45.834	30	PASS
149	5745	MCS0	22.5	21.40	21.36	24.39	275.087	30	PASS
157	5785	MCS0	22.5	21.35	21.28	24.33	271.006	30	PASS
165	5825	MCS0	22	21.10	20.92	24.03	252.673	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	14.5	14.43	27.703	23.98	PASS
46	5230	MCS0	20.5	20.65	116.017	23.98	PASS
54	5270	MCS0	20.5	20.58	114.162	23.98	PASS
62	5310	MCS0	14	13.98	24.976	23.98	PASS
102	5510	MCS0	15.5	15.58	36.101	23.98	PASS
110	5550	MCS0	20.5	20.59	114.425	23.98	PASS
134	5670	MCS0	16	15.95	39.312	23.98	PASS
142	5710(U-NII 2C)	MCS0	20.5	19.53	89.67	23.98	PASS
142	5710 (U-NII 3)	MCS0	20.5	13.35	21.64	30	PASS
151	5755	MCS0	18.5	18.59	72.198	30	PASS
159	5795	MCS0	19.5	19.59	90.891	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	15	14.38	27.386	23.98	PASS
46	5230	MCS0	20.5	20.33	107.776	23.98	PASS
54	5270	MCS0	20.5	20.18	104.117	23.98	PASS
62	5310	MCS0	14	13.63	23.042	23.98	PASS
102	5510	MCS0	16	15.47	35.198	23.98	PASS
110	5550	MCS0	20.5	20.18	104.117	23.98	PASS
134	5670	MCS0	16	15.81	38.065	23.98	PASS
142	5710(U-NII 2C)	MCS0	20.5	19.24	83.95	23.98	PASS
142	5710 (U-NII 3)	MCS0	20.5	13.10	20.41	30	PASS
151	5755	MCS0	18.5	18.05	63.756	30	PASS
159	5795	MCS0	19.5	19.11	81.381	30	PASS

802.11ac_VHT40_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	MCS0	15	14.45	14.42	17.44	55.470	23.98	PASS
46	5230	MCS0	21	20.87	20.68	23.78	238.867	23.98	PASS
54	5270	MCS0	21	20.65	20.58	23.62	230.180	23.98	PASS
62	5310	MCS0	14.5	14.07	13.90	16.99	50.019	23.98	PASS
102	5510	MCS0	16.5	16.01	15.96	18.99	79.261	23.98	PASS
110	5550	MCS0	21	20.65	20.58	23.62	230.180	23.98	PASS
134	5670	MCS0	16.5	16.05	16.00	19.03	79.994	23.98	PASS
142	5710(U-NII 2C)	MCS0	21	19.69	19.44	22.60	181.778	23.98	PASS
142	5710 (U-NII 3)	MCS0	21	13.51	13.30	16.44	44.019	30	PASS
151	5755	MCS0	19	18.63	18.53	21.59	144.073	30	PASS
159	5795	MCS0	20	19.62	19.55	22.59	181.579	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	14	13.43	22.023	23.98	PASS
58	5290	MCS0	10.5	10.08	10.183	23.98	PASS
106	5530	MCS0	13.5	13.21	20.935	23.98	PASS
122	5610	MCS0	17.5	17.31	53.812	23.98	PASS
138	5690(U-NII 2C)	MCS0	21	19.85	96.62	23.98	PASS
138	5690 (U-NII 3)	MCS0	21	12.06	16.07	30	PASS
155	5775	MCS0	16.5	16.16	41.293	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	14	13.21	20.935	23.98	PASS
58	5290	MCS0	10.5	10.00	9.997	23.98	PASS
106	5530	MCS0	13.5	12.62	18.276	23.98	PASS
122	5610	MCS0	17.5	16.97	49.759	23.98	PASS
138	5690(U-NII 2C)	MCS0	21	19.89	97.56	23.98	PASS
138	5690 (U-NII 3)	MCS0	21	11.41	13.84	30	PASS
155	5775	MCS0	16.5	15.76	37.660	30	PASS

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802.11ac_VHT80_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
42	5210	MCS0	14.5	13.61	13.43	16.53	44.978	23.98	PASS
58	5290	MCS0	11	10.40	10.32	13.37	21.723	23.98	PASS
106	5530	MCS0	14	13.22	13.08	16.16	41.301	23.98	PASS
122	5610	MCS0	18	17.35	17.33	20.35	108.369	23.98	PASS
138	5690(U-NII 2C)	MCS0	21.5	20.24	20.03	23.18	207.883	23.98	PASS
138	5690 (U-NII 3)	MCS0	21.5	12.45	11.55	15.06	32.092	30	PASS
155	5775	MCS0	17	16.17	16.11	19.15	82.208	30	PASS

802.11ac_VHT160_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	MCS0	11	11.11	12.910	23.98	PASS
114	5570	MCS0	8	8.83	7.637	23.98	PASS

802.11ac_VHT160_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	MCS0	11	10.71	11.774	23.98	PASS
114	5570	MCS0	8.5	8.46	7.014	23.98	PASS

802.11ac_VHT160_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
50	5250	MCS0	11.5	11.12	10.98	14.06	25.470	23.98	PASS
114	5570	MCS0	9	8.96	8.64	11.81	15.180	23.98	PASS

802.11ax_HE20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	16.5	15.98	39.668	23.98	PASS
44	5220	MCS0	full	19.5	19.12	81.740	23.98	PASS
48	5240	MCS0	full	19.5	19.21	83.452	23.98	PASS
52	5260	MCS0	full	19.5	19.28	84.808	23.98	PASS
60	5300	MCS0	full	19.5	19.21	83.452	23.98	PASS
64	5320	MCS0	full	17	16.43	43.998	23.98	PASS
100	5500	MCS0	full	17.5	17.07	50.984	23.98	PASS
116	5580	MCS0	full	19.5	19.28	84.808	23.98	PASS
140	5700	MCS0	full	14	13.39	21.849	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	19.5	17.66	58.284	23.98	PASS
144	5720 (U-NII 3)	MCS0	full	19.5	13.67	23.268	30	PASS
149	5745	MCS0	full	21.5	21.13	129.848	30	PASS
157	5785	MCS0	full	21.5	21.10	128.954	30	PASS
165	5825	MCS0	full	21.5	21.06	127.772	30	PASS

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802.11ax_HE20_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	17	15.62	36.512	23.98	PASS
44	5220	MCS0	full	19.5	18.75	75.065	23.98	PASS
48	5240	MCS0	full	19.5	18.88	77.346	23.98	PASS
52	5260	MCS0	full	19.5	18.92	78.061	23.98	PASS
60	5300	MCS0	full	19.5	19.10	81.365	23.98	PASS
64	5320	MCS0	full	17	16.37	43.395	23.98	PASS
100	5500	MCS0	full	17.5	16.65	46.284	23.98	PASS
116	5580	MCS0	full	19.5	19.19	83.068	23.98	PASS
140	5700	MCS0	full	14	13.25	21.156	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	19.5	17.25	53.036	23.98	PASS
144	5720 (U-NII 3)	MCS0	full	19.5	13.12	20.489	30	PASS
149	5745	MCS0	full	22	21.05	127.478	30	PASS
157	5785	MCS0	full	22	21.07	128.067	30	PASS
165	5825	MCS0	full	21.5	20.72	118.150	30	PASS

802.11ax_HE20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	17	16.11	16.05	19.09	81.185	23.98	PASS
44	5220	MCS0	full	20	19.24	19.12	22.20	165.770	23.98	PASS
48	5240	MCS0	full	20	19.43	19.17	22.32	170.475	23.98	PASS
52	5260	MCS0	full	20	19.54	19.40	22.49	177.224	23.98	PASS
60	5300	MCS0	full	20	19.59	19.24	22.43	175.113	23.98	PASS
64	5320	MCS0	full	17.5	16.77	16.68	19.74	94.187	23.98	PASS
100	5500	MCS0	full	18	17.26	17.13	20.21	104.958	23.98	PASS
116	5580	MCS0	full	20	19.74	19.31	22.54	179.679	23.98	PASS
140	5700	MCS0	full	14.5	13.70	13.61	16.67	46.450	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	20	17.72	17.72	20.74	118.465	23.98	PASS
144	5720 (U-NII 3)	MCS0	full	20	13.73	13.59	16.68	46.529	30	PASS
149	5745	MCS0	full	22.5	21.42	21.40	24.42	276.992	30	PASS
157	5785	MCS0	full	22.5	21.45	21.38	24.43	277.319	30	PASS
165	5825	MCS0	full	22	21.16	20.98	24.09	256.188	30	PASS

802.11ax_HE40_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	15	15.07	32.130	23.98	PASS
46	5230	MCS0	full	20.5	20.41	109.879	23.98	PASS
54	5270	MCS0	full	20.5	20.54	113.218	23.98	PASS
62	5310	MCS0	full	13	12.93	19.630	23.98	PASS
102	5510	MCS0	full	15	14.73	29.711	23.98	PASS
110	5550	MCS0	full	20.5	20.63	29.711	23.98	PASS
134	5670	MCS0	full	15.5	15.30	33.878	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	20	19.21	83.354	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	20	11.83	15.254	30	PASS
151	5755	MCS0	full	18.5	18.33	68.064	30	PASS
159	5795	MCS0	full	19	18.85	76.721	30	PASS

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802.11ax_HE40_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	15.5	14.97	31.399	23.98	PASS
46	5230	MCS0	full	20.5	20.00	99.980	23.98	PASS
54	5270	MCS0	full	20.5	20.24	105.661	23.98	PASS
62	5310	MCS0	full	13	12.86	19.316	23.98	PASS
102	5510	MCS0	full	15	14.45	27.856	23.98	PASS
110	5550	MCS0	full	20.5	20.21	27.856	23.98	PASS
134	5670	MCS0	full	15	14.93	31.111	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	20	18.94	78.261	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	20	12.02	15.910	30	PASS
151	5755	MCS0	full	18.5	18.07	64.108	30	PASS
159	5795	MCS0	full	19	18.55	71.600	30	PASS

802.11ax_HE40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	15.5	15.21	15.14	18.18	65.835	23.98	PASS
46	5230	MCS0	full	21	20.67	20.48	23.59	228.323	23.98	PASS
54	5270	MCS0	full	21	20.67	20.64	23.66	232.513	23.98	PASS
62	5310	MCS0	full	13.5	12.95	12.87	15.92	39.081	23.98	PASS
102	5510	MCS0	full	15.5	14.90	14.79	17.85	61.021	23.98	PASS
110	5550	MCS0	full	21	20.66	20.60	23.64	61.021	23.98	PASS
134	5670	MCS0	full	16	15.63	15.21	18.43	69.735	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	20.5	19.36	19.13	22.27	168.820	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	20.5	11.98	12.21	15.13	32.561	30	PASS
151	5755	MCS0	full	19	18.48	18.47	21.48	140.749	30	PASS
159	5795	MCS0	full	19.5	18.94	18.92	21.94	156.295	30	PASS

802.11ax_HE80_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	13.5	13.13	20.537	23.98	PASS
58	5290	MCS0	full	10.5	9.77	9.474	23.98	PASS
106	5530	MCS0	full	12.5	12.43	17.480	23.98	PASS
122	5610	MCS0	full	16.5	16.33	42.907	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	17.5	16.93	49.265	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	17.5	6.99	5.002	30	PASS
155	5775	MCS0	full	15.5	15.42	34.796	30	PASS

802.11ax_HE80_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	13.5	12.96	19.748	23.98	PASS
58	5290	MCS0	full	10	9.65	9.216	23.98	PASS
106	5530	MCS0	full	13	12.35	17.161	23.98	PASS
122	5610	MCS0	full	16.5	16.32	42.809	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	17.5	16.82	48.111	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	17.5	6.92	4.921	30	PASS
155	5775	MCS0	full	16	15.40	34.636	30	PASS

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802.11ax_HE80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	14	13.31	13.28	16.30	42.664	23.98	PASS
58	5290	MCS0	full	10.5	10.05	10.00	13.03	20.094	23.98	PASS
106	5530	MCS0	full	13	12.54	12.37	15.46	35.168	23.98	PASS
122	5610	MCS0	full	17	16.62	16.53	19.58	90.800	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	18	17.20	17.13	20.20	104.817	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	18	7.26	7.23	10.30	10.705	30	PASS
155	5775	MCS0	full	16	15.48	15.42	18.46	70.077	30	PASS

802.11ax_HE160_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	MCS0	full	11	11.25	13.343	23.98	PASS
114	5570	MCS0	full	11	11.50	14.133	23.98	PASS

802.11ax_HE160_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	MCS0	full	11	11.14	13.009	23.98	PASS
114	5570	MCS0	full	11	11.36	13.685	23.98	PASS

802.11ax_HE160_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	12	11.62	11.53	14.59	28.760	23.98	PASS
114	5570	MCS0	full	12	11.58	11.46	14.53	28.400	23.98	PASS

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802.11be_EHT20_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	16.5	16.07	40.498	23.98	PASS
		MCS0	26/0	7	6.79	4.780	23.98	PASS
		MCS0	52/37	9.5	9.45	8.819	23.98	PASS
		MCS0	106/53	12.75	12.26	16.844	23.98	PASS
		MCS0	52+26 MRU1	11.5	11.21	13.226	23.98	PASS
		MCS0	106+26 MRU1	13.75	13.29	21.352	23.98	PASS
44	5220	MCS0	full	19.5	19.23	83.837	23.98	PASS
48	5240	MCS0	full	19.5	19.24	84.030	23.98	PASS
52	5260	MCS0	full	19.5	19.39	86.983	23.98	PASS
60	5300	MCS0	full	19.5	19.28	84.808	23.98	PASS
64	5320	MCS0	full	17	16.44	44.100	23.98	PASS
		MCS0	26/8	11	7.77	5.990	23.98	PASS
		MCS0	52/40	13.5	10.55	11.361	23.98	PASS
		MCS0	106/54	12.25	13.56	22.721	23.98	PASS
		MCS0	52+26 MRU3	14.25	12.13	16.347	23.98	PASS
		MCS0	106+26 MRU2	0	14.17	26.148	23.98	PASS
100	5500	MCS0	full	17.5	17.18	52.292	23.98	PASS
		MCS0	26/0	8.5	8.47	7.038	23.98	PASS
		MCS0	52/37	11	11.16	13.075	23.98	PASS
		MCS0	106/53	14.25	13.62	23.038	23.98	PASS
		MCS0	52+26 MRU1	12.5	12.45	17.597	23.98	PASS
		MCS0	106+26 MRU1	14.5	14.36	27.317	23.98	PASS
116	5580	MCS0	full	20	19.74	94.283	23.98	PASS
140	5700	MCS0	full	14	13.43	22.051	23.98	PASS
		MCS0	26/8	5	4.88	3.079	23.98	PASS
		MCS0	52/40	8	7.16	5.205	23.98	PASS
		MCS0	106/54	10.75	10.14	10.338	23.98	PASS
		MCS0	52+26 MRU3	9	8.97	7.897	23.98	PASS
		MCS0	106+26 MRU2	11.25	10.80	12.035	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	19.5	17.74	59.368	23.21	PASS
144	5720 (U-NII 3)	MCS0	full	19.5	13.75	23.701	30	PASS
149	5745	MCS0	full	22	21.45	139.777	30	PASS
		MCS0	26/0	10.75	10.43	11.052	30	PASS
		MCS0	52/37	13.75	13.43	22.051	30	PASS
		MCS0	106/53	13.75	13.37	21.749	30	PASS
		MCS0	52+26 MRU1	15.25	14.88	30.792	30	PASS
		MCS0	106+26 MRU1	17.5	17.25	53.142	30	PASS
157	5785	MCS0	full	22	21.45	139.777	30	PASS
165	5825	MCS0	full	21.5	21.07	128.067	30	PASS
		MCS0	26/8	12	11.97	15.756	30	PASS
		MCS0	52/40	14.5	13.58	22.826	30	PASS
		MCS0	106/54	17.5	17.27	53.387	30	PASS
		MCS0	52+26 MRU3	16.25	15.80	38.057	30	PASS
		MCS0	106+26 MRU2	18	17.72	59.216	30	PASS

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802.11be_EHT20_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	full	16.5	16.01	39.943	23.98	PASS
		MCS0	26/0	7	6.62	4.597	23.98	PASS
		MCS0	52/37	9.5	9.33	8.579	23.98	PASS
		MCS0	106/53	12.75	12.18	16.536	23.98	PASS
		MCS0	52+26 MRU1	11.5	11.20	13.196	23.98	PASS
		MCS0	106+26 MRU1	13.75	13.12	20.532	23.98	PASS
44	5220	MCS0	full	19.5	18.76	75.238	23.98	PASS
48	5240	MCS0	full	19.5	18.90	77.703	23.98	PASS
52	5260	MCS0	full	20	19.27	84.613	23.98	PASS
60	5300	MCS0	full	19.5	19.12	81.740	23.98	PASS
64	5320	MCS0	full	17	16.42	43.897	23.98	PASS
		MCS0	26/8	11	6.90	4.903	23.98	PASS
		MCS0	52/40	13.5	10.04	10.103	23.98	PASS
		MCS0	106/54	12.25	13.22	21.010	23.98	PASS
		MCS0	52+26 MRU3	14.25	11.77	15.047	23.98	PASS
		MCS0	106+26 MRU2	0	13.80	24.012	23.98	PASS
100	5500	MCS0	full	18	17.11	51.456	23.98	PASS
		MCS0	26/0	8.5	8.32	6.799	23.98	PASS
		MCS0	52/37	11	11.05	12.748	23.98	PASS
		MCS0	106/53	14.25	13.58	22.826	23.98	PASS
		MCS0	52+26 MRU1	12.5	12.39	17.355	23.98	PASS
		MCS0	106+26 MRU1	14.5	14.27	26.757	23.98	PASS
116	5580	MCS0	full	19.5	19.20	83.260	23.98	PASS
140	5700	MCS0	full	14	13.27	21.254	23.98	PASS
		MCS0	26/8	5	4.53	2.841	23.98	PASS
		MCS0	52/40	8	6.99	5.005	23.98	PASS
		MCS0	106/54	10.75	10.05	10.126	23.98	PASS
		MCS0	52+26 MRU3	9	8.44	6.989	23.98	PASS
		MCS0	106+26 MRU2	11.25	10.66	11.653	23.98	PASS
144	5720(U-NII 2C)	MCS0	full	20	17.67	58.422	23.12	PASS
144	5720 (U-NII 3)	MCS0	full	20	13.54	22.569	30	PASS
149	5745	MCS0	full	22	21.09	128.658	30	PASS
		MCS0	26/0	10.75	10.30	10.726	30	PASS
		MCS0	52/37	13.75	13.32	21.500	30	PASS
		MCS0	106/53	13.75	13.21	20.962	30	PASS
		MCS0	52+26 MRU1	15.25	14.77	30.022	30	PASS
		MCS0	106+26 MRU1	17.5	17.19	52.413	30	PASS
157	5785	MCS0	full	22	21.12	129.549	30	PASS
165	5825	MCS0	full	21.5	20.75	118.969	30	PASS
		MCS0	26/8	12	11.89	15.468	30	PASS
		MCS0	52/40	14.5	13.47	22.255	30	PASS
		MCS0	106/54	17.5	17.18	52.292	30	PASS
		MCS0	52+26 MRU3	16.25	15.75	37.621	30	PASS
		MCS0	106+26 MRU2	18	17.68	58.673	30	PASS

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802.11be_EHT20_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
36	5180	MCS0	full	17	16.29	16.13	19.23	83.664	23.98	PASS
		MCS0	26/0	7	6.97	6.88	9.94	9.863	23.98	PASS
		MCS0	52/37	9.5	9.63	9.49	12.58	18.093	23.98	PASS
		MCS0	106/53	12.75	12.48	12.35	15.43	34.915	23.98	PASS
		MCS0	52+26 MRU1	11.5	11.42	11.37	14.41	27.604	23.98	PASS
MCS0	106+26 MRU1	13.75	13.34	13.32	16.34	43.099	23.98	PASS		
44	5220	MCS0	full	20	19.31	19.14	22.24	167.513	23.98	PASS
48	5240	MCS0	full	20	19.45	19.16	22.32	170.690	23.98	PASS
52	5260	MCS0	full	20	19.59	19.43	22.53	178.871	23.98	PASS
60	5300	MCS0	full	20	19.62	19.34	22.50	177.702	23.98	PASS
64	5320	MCS0	full	17.5	16.80	16.74	19.78	95.165	23.98	PASS
		MCS0	26/8	7.75	7.97	7.06	10.55	11.359	23.98	PASS
		MCS0	52/40	11	10.67	10.16	13.44	22.065	23.98	PASS
		MCS0	106/54	13.5	13.67	13.38	16.54	45.103	23.98	PASS
		MCS0	52+26 MRU3	12.25	12.32	11.99	15.17	32.906	23.98	PASS
MCS0	106+26 MRU2	14.25	14.22	13.87	17.06	50.853	23.98	PASS		
100	5500	MCS0	full	18	17.29	17.25	20.28	106.775	23.98	PASS
		MCS0	26/0	8.5	8.57	8.47	11.53	14.239	23.98	PASS
		MCS0	52/37	11	11.20	11.12	14.17	26.151	23.98	PASS
		MCS0	106/53	14.25	13.99	13.94	16.98	49.885	23.98	PASS
		MCS0	52+26 MRU1	12.5	12.53	12.52	15.54	35.807	23.98	PASS
MCS0	106+26 MRU1	14.5	14.40	14.39	17.41	55.076	23.98	PASS		
116	5580	MCS0	full	20	19.77	19.32	22.57	180.529	23.98	PASS
140	5700	MCS0	full	14.5	13.72	13.63	16.69	46.665	23.98	PASS
		MCS0	26/8	5	4.93	4.65	7.81	6.035	23.98	PASS
		MCS0	52/40	8	7.28	7.09	10.20	10.473	23.98	PASS
		MCS0	106/54	10.75	10.22	10.19	13.22	20.988	23.98	PASS
		MCS0	52+26 MRU3	9	9.06	8.70	11.90	15.482	23.98	PASS
MCS0	106+26 MRU2	11.25	10.96	10.84	13.92	24.632	23.98	PASS		
144	5720(U-NII 2C)	MCS0	full	20	17.79	17.81	20.82	120.668	23.12	PASS
144	5720 (U-NII 3)	MCS0	full	20	13.80	13.68	16.76	47.393	30	PASS
149	5745	MCS0	full	22.5	21.46	21.38	24.43	277.641	30	PASS
		MCS0	26/0	10.75	10.51	10.40	13.47	22.233	30	PASS
		MCS0	52/37	13.75	13.48	13.43	16.47	44.358	30	PASS
		MCS0	106/53	13.75	13.43	13.36	16.41	43.750	30	PASS
		MCS0	52+26 MRU1	15.25	14.94	14.85	17.91	61.800	30	PASS
MCS0	106+26 MRU1	17.5	17.35	17.29	20.33	108.013	30	PASS		
157	5785	MCS0	full	22.5	21.48	21.44	24.47	280.201	30	PASS
165	5825	MCS0	full	22	21.26	21.09	24.19	262.451	30	PASS
		MCS0	26/8	12	11.99	11.98	15.00	31.620	30	PASS
		MCS0	52/40	14.5	13.61	13.57	16.60	45.758	30	PASS
		MCS0	106/54	17.5	17.35	17.28	20.33	107.890	30	PASS
		MCS0	52+26 MRU3	16.25	15.88	15.83	18.87	77.086	30	PASS
MCS0	106+26 MRU2	18	17.83	17.81	20.83	121.190	30	PASS		

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802.11be_EHT40_Ch0

CH	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	20.5	20.43	110.386	23.98	PASS
54	5270	MCS0	full	20.5	20.55	113.479	23.98	PASS
62	5310	MCS0	full	13.5	13.16	20.697	23.98	PASS
102	5510	MCS0	full	15	14.81	30.263	23.98	PASS
110	5550	MCS0	full	20.5	20.64	30.263	23.98	PASS
134	5670	MCS0	full	16	15.60	36.301	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	20.5	19.50	89.110	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	20.5	12.12	16.308	30	PASS
151	5755	MCS0	full	18.5	18.46	70.132	30	PASS
159	5795	MCS0	full	19	18.93	78.148	30	PASS

802.11be_EHT40_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	full	16	15.33	34.113	23.98	PASS
46	5230	MCS0	full	20.5	20.06	101.371	23.98	PASS
54	5270	MCS0	full	21	20.48	111.664	23.98	PASS
62	5310	MCS0	full	13.5	13.05	20.180	23.98	PASS
102	5510	MCS0	full	15.5	14.70	29.506	23.98	PASS
110	5550	MCS0	full	21	20.46	29.506	23.98	PASS
134	5670	MCS0	full	15.5	15.21	33.183	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	20.5	19.38	86.605	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	20.5	12.46	17.606	30	PASS
151	5755	MCS0	full	19	18.24	66.668	30	PASS
159	5795	MCS0	full	19	18.80	75.843	30	PASS

802.11be_EHT40_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
38	5190	MCS0	full	15.5	15.62	15.52	18.58	72.106	23.98	PASS
46	5230	MCS0	full	21	20.81	20.79	23.81	240.407	23.98	PASS
54	5270	MCS0	full	21	20.68	20.64	23.67	232.782	23.98	PASS
62	5310	MCS0	full	13.5	13.17	13.10	16.14	41.158	23.98	PASS
102	5510	MCS0	full	15.5	15.07	15.05	18.07	64.113	23.98	PASS
110	5550	MCS0	full	21	20.73	20.55	23.65	64.113	23.98	PASS
134	5670	MCS0	full	16	15.70	15.24	18.49	70.559	23.98	PASS
142	5710(U-NII 2C)	MCS0	full	20.5	19.55	19.43	22.52	178.571	23.98	PASS
142	5710 (U-NII 3)	MCS0	full	20.5	12.17	12.51	15.37	34.465	30	PASS
151	5755	MCS0	full	19	18.68	18.72	21.71	148.235	30	PASS
159	5795	MCS0	full	19.5	19.16	19.11	22.14	163.852	30	PASS

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802.11be_EHT80_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	13.5	13.16	20.679	23.98	PASS
		MCS0	SU_Punct20_Mid2	12.5	11.69	14.741	23.98	PASS
		MCS0	RU484+242_Punc20	11	12.00	15.832	23.98	PASS
58	5290	MCS0	full	10	10.06	10.128	23.98	PASS
		MCS0	SU_Punct20_Mid2	8.75	8.63	7.287	23.98	PASS
		MCS0	RU484+242_Punc20	7.5	8.71	7.422	23.98	PASS
106	5530	MCS0	full	12.5	12.46	17.601	23.98	PASS
		MCS0	SU_Punct20_Mid2	11	10.54	11.312	23.98	PASS
		MCS0	RU484+242_Punc20	10	10.80	12.010	23.98	PASS
122	5610	MCS0	full	16.5	16.39	43.504	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	17.5	16.95	49.492	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	17.5	7.01	5.025	30	PASS
155	5775	MCS0	full	15.5	15.43	34.876	30	PASS
		MCS0	SU_Punct20_Mid2	14.25	13.67	23.256	30	PASS
		MCS0	RU484+242_Punc20	13	13.85	24.240	30	PASS

802.11be_EHT80_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	full	13.5	12.98	19.840	23.98	PASS
		MCS0	SU_Punct20_Mid2	12.5	11.36	13.663	23.98	PASS
		MCS0	RU484+242_Punc20	11	11.92	15.543	23.98	PASS
58	5290	MCS0	full	10	9.74	9.409	23.98	PASS
		MCS0	SU_Punct20_Mid2	8.75	8.17	6.554	23.98	PASS
		MCS0	RU484+242_Punc20	7.5	7.96	6.245	23.98	PASS
106	5530	MCS0	full	13	12.39	17.319	23.98	PASS
		MCS0	SU_Punct20_Mid2	11	10.28	10.654	23.98	PASS
		MCS0	RU484+242_Punc20	10	10.72	11.790	23.98	PASS
122	5610	MCS0	full	16.5	16.37	43.304	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	17.5	16.84	48.333	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	17.5	6.94	4.943	30	PASS
155	5775	MCS0	full	16	15.42	34.796	30	PASS
		MCS0	SU_Punct20_Mid2	14.25	13.30	21.357	30	PASS
		MCS0	RU484+242_Punc20	13	13.81	24.018	30	PASS

802.11be_EHT80_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
42	5210	MCS0	full	14	13.39	13.30	16.36	43.256	23.98	PASS
		MCS0	SU_Punct20_Mid2	12.5	11.82	11.70	14.78	30.030	23.98	PASS
		MCS0	RU484+242_Punc20	11	12.05	11.94	15.01	31.700	23.98	PASS
58	5290	MCS0	full	10.5	10.06	10.01	13.05	20.185	23.98	PASS
		MCS0	SU_Punct20_Mid2	8.75	8.65	8.20	11.45	13.951	23.98	PASS
		MCS0	RU484+242_Punc20	7.5	8.85	8.08	11.50	14.116	23.98	PASS
106	5530	MCS0	full	13	12.55	12.42	15.50	35.487	23.98	PASS
		MCS0	SU_Punct20_Mid2	11	10.86	10.69	13.79	23.939	23.98	PASS
		MCS0	RU484+242_Punc20	10	10.81	10.78	13.81	24.045	23.98	PASS
122	5610	MCS0	full	17	16.63	16.58	19.62	91.627	23.98	PASS
138	5690(U-NII 2C)	MCS0	full	18	17.23	17.18	20.25	105.897	23.98	PASS
138	5690 (U-NII 3)	MCS0	full	18	7.30	7.28	10.33	10.791	30	PASS
155	5775	MCS0	full	16	15.51	15.44	18.49	70.637	30	PASS
		MCS0	SU_Punct20_Mid2	14.25	13.77	13.65	16.73	47.050	30	PASS
		MCS0	RU484+242_Punc20	13	13.86	13.84	16.87	48.587	30	PASS

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802.11be_EHT160_Ch0

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	MCS0	full	12	11.56	14.330	23.98	PASS
		MCS0	996/67	9.75	8.98	7.911	23.98	PASS
		MCS0	SU Punct20 Mid3	11.25	10.58	11.435	23.98	PASS
		MCS0	SU Punct40 Mid2	10.5	10.14	10.333	23.98	PASS
		MCS0	RU996+484 Punc40	9.5	10.33	10.796	23.98	PASS
		MCS0	996+484 MRU4	9.75	10.36	10.870	23.98	PASS
114	5570	MCS0	full	12	11.83	15.249	23.98	PASS
		MCS0	996/67	9.75	9.10	8.133	23.98	PASS
		MCS0	SU Punct20 High	11.25	11.26	13.373	23.98	PASS
		MCS0	SU Punct40 High	10.25	10.32	10.771	23.98	PASS
		MCS0	RU996+484 Punc40	9	10.22	10.526	23.98	PASS
		MCS0	996+484 MRU4	9	10.26	10.623	23.98	PASS

802.11be_EHT160_Ch1

CH	Frequency (MHz)	Data Rate	RU config.	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
50	5250	MCS0	full	12	11.44	13.939	23.98	PASS
		MCS0	996/67	9.75	8.83	7.643	23.98	PASS
		MCS0	SU Punct20 Mid3	11.25	10.33	10.796	23.98	PASS
		MCS0	SU Punct40 Mid2	10.5	9.91	9.800	23.98	PASS
		MCS0	RU996+484 Punc40	9.5	9.91	9.800	23.98	PASS
		MCS0	996+484 MRU4	9.75	9.97	9.937	23.98	PASS
114	5570	MCS0	full	12	11.67	14.697	23.98	PASS
		MCS0	996/67	9.75	8.93	7.821	23.98	PASS
		MCS0	SU Punct20 High	11.25	10.75	11.892	23.98	PASS
		MCS0	SU Punct40 High	10.25	9.61	9.146	23.98	PASS
		MCS0	RU996+484 Punc40	9	9.70	9.338	23.98	PASS
		MCS0	996+484 MRU4	9	9.84	9.644	23.98	PASS

802.11be_EHT160_2TX

CH	Frequency (MHz)	Data Rate	RU config.	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
					Ch0	Ch1				
50	5250	MCS0	full	12	11.64	11.58	14.62	28.970	23.98	PASS
		MCS0	996/67	9.75	9.19	9.00	12.11	16.238	23.98	PASS
		MCS0	SU Punct20 Mid3	11.25	10.99	10.57	13.79	23.957	23.98	PASS
		MCS0	SU Punct40 Mid2	10.5	10.36	9.93	13.16	20.700	23.98	PASS
		MCS0	RU996+484 Punc40	9.5	10.50	10.09	13.31	21.425	23.98	PASS
		MCS0	996+484 MRU4	9.75	10.54	10.03	13.30	21.389	23.98	PASS
114	5570	MCS0	full	12	12.07	11.95	15.02	31.767	23.98	PASS
		MCS0	996/67	9.75	9.26	9.08	12.18	16.521	23.98	PASS
		MCS0	SU Punct20 High	11.25	11.34	10.93	14.15	25.997	23.98	PASS
		MCS0	SU Punct40 High	10.25	10.41	9.62	13.04	20.148	23.98	PASS
		MCS0	RU996+484 Punc40	9	10.28	9.72	13.02	20.037	23.98	PASS
		MCS0	996+484 MRU4	9	10.29	9.85	13.08	20.347	23.98	PASS

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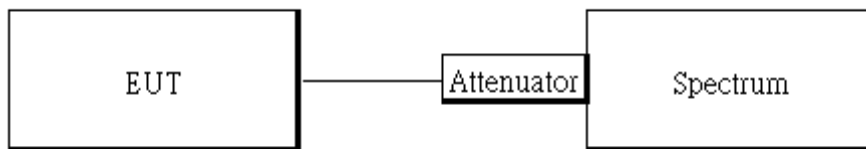
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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 FCC Standard

Operation Bands	EUT CATEGORY		e-CRF Title 47 §15.407 Power Spectral Density	Antenna Directional Gain Requirements
U-NII-1		Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
		Indoor Access Point (Master)	17dBm / MHz	6dBi
		Fixed point-to-point Access Point	17dBm / MHz	23dBi
	V	Client device	11dBm / MHz	6dBi
U-NII-2A	V	All	11dBm / MHz	6dBi
U-NII-2C	V	All	11dBm / MHz	6dBi
U-NII-3	V	All	30dBm / 500kHz	6dBi
U-NII-4		Indoor AP	20dBm / MHz e.i.r.p.	Not required
		indoor client	14dBm / MHz e.i.r.p.	Not required
		subordinate device	20dBm / MHz e.i.r.p.	Not required
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.				

10.2 Test Setup



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10.3 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. **For U-NII1, U-NII-2A, U-NII-2C Band:**
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging. In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. (1)Duty cycle ≥ 98% : Record the max. reading.
(2)Duty cycle < 98% : Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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

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

G_k is the gain in dBi of the kth antenna.

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

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10.4 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	5.312	5.573	0.00	8.45		11.00 dBm/MHz	-2.55
5220	7.871	7.822	0.00	10.86		11.00 dBm/MHz	-0.14
5240	7.954	7.989	0.00	10.98		11.00 dBm/MHz	-0.02
5260	7.995	7.561	0.00	10.79		11.00 dBm/MHz	-0.21
5300	7.966	7.920	0.00	10.95		11.00 dBm/MHz	-0.05
5320	5.764	5.975	0.00	8.88		11.00 dBm/MHz	-2.12
5500	5.659	5.633	0.00	8.66		11.00 dBm/MHz	-2.34
5580	7.358	7.903	0.00	10.65		11.00 dBm/MHz	-0.35
5700	7.008	6.881	0.00	9.96		11.00 dBm/MHz	-1.04
5720 (U-NII 2C)	8.001	7.896	0.00	10.96		11.00 dBm/MHz	-0.04
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	2.564	2.480	0.00	2.22	7.75	30.00 dBm/500kHz	-22.25
5745	5.886	5.146	0.00	2.22	10.76	30.00 dBm/500kHz	-19.24
5785	5.886	5.535	0.00	2.22	10.94	30.00 dBm/500kHz	-19.06
5825	5.454	4.829	0.00	2.22	10.38	30.00 dBm/500kHz	-19.62
POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	5.489	5.309	0.00	8.41		11.00 dBm/MHz	-2.59
5220	7.738	7.655	0.00	10.71		11.00 dBm/MHz	-0.29
5240	7.863	7.964	0.00	10.92		11.00 dBm/MHz	-0.08
5260	7.915	7.644	0.00	10.79		11.00 dBm/MHz	-0.21
5300	7.657	7.434	0.00	10.56		11.00 dBm/MHz	-0.44
5320	4.854	5.019	0.00	7.95		11.00 dBm/MHz	-3.05
5500	4.524	4.542	0.00	7.54		11.00 dBm/MHz	-3.46
5580	7.606	8.157	0.00	10.90		11.00 dBm/MHz	-0.10
5700	2.604	3.068	0.00	5.85		11.00 dBm/MHz	-5.15
5720 (U-NII 2C)	7.978	7.674	0.00	10.84		11.00 dBm/MHz	-0.16
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	2.278	2.253	0.00	2.22	7.50	30.00 dBm/500kHz	-22.50
5745	4.487	3.357	0.00	2.22	9.19	30.00 dBm/500kHz	-20.81
5785	5.343	3.622	0.00	2.22	9.80	30.00 dBm/500kHz	-20.20
5825	4.768	3.936	0.00	2.22	9.60	30.00 dBm/500kHz	-20.40

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POWER DENSITY 802.11n HT40 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	0.500	0.366	0.00	3.44		11.00 dBm/MHz	-7.56
5230	5.259	5.158	0.00	8.22		11.00 dBm/MHz	-2.78
5270	5.100	4.695	0.00	7.91		11.00 dBm/MHz	-3.09
5310	-0.276	-0.190	0.00	2.78		11.00 dBm/MHz	-8.22
5510	0.549	0.754	0.00	3.66		11.00 dBm/MHz	-7.34
5550	5.793	4.738	0.00	8.31		11.00 dBm/MHz	-2.69
5670	2.224	2.162	0.00	5.20		11.00 dBm/MHz	-5.80
5710 (U-NII 2C)	6.116	5.408	0.00	8.79		11.00 dBm/MHz	-2.21
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	0.608	-0.110	0.00	2.22	5.49	30.00 dBm/500kHz	-24.51
5755	-0.737	-0.726	0.00	2.22	4.50	30.00 dBm/500kHz	-25.50
5795	0.402	0.243	0.00	2.22	5.55	30.00 dBm/500kHz	-24.45
POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	-3.720	-2.599	0.00	-0.11		11.00 dBm/MHz	-11.11
5290	-7.257	-6.968	0.00	-4.10		11.00 dBm/MHz	-15.10
5530	-5.149	-4.744	0.00	-1.93		11.00 dBm/MHz	-12.93
5610	-0.140	0.560	0.00	3.23		11.00 dBm/MHz	-7.77
5690 (U-NII 2C)	2.808	1.574	0.00	5.24		11.00 dBm/MHz	-5.76
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-1.927	-3.347	0.00	2.22	2.65	30.00 dBm/500kHz	-27.35
5775	-5.648	-5.600	0.00	2.22	-0.39	30.00 dBm/500kHz	-30.39
POWER DENSITY 802.11ac VHT160 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5250	-8.472	-7.968	0.00	-5.20		11.00 dBm/MHz	-16.20
5570	-12.169	-11.452	0.00	-8.79		11.00 dBm/MHz	-19.79

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POWER DENSITY 802.11be EHT20 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	full	4.607	4.537	0.00	7.58		11.00 dBm/MHz	-3.42
	26/0	4.255	4.315	0.00	7.30		11.00 dBm/MHz	-3.70
	52/37	3.885	4.266	0.00	7.09		11.00 dBm/MHz	-3.91
	106/53	4.508	4.157	0.00	7.35		11.00 dBm/MHz	-3.65
	52+26 MRU1	4.050	4.335	0.00	7.21		11.00 dBm/MHz	-3.79
	106+26 MRU1	3.876	4.216	0.00	7.06		11.00 dBm/MHz	-3.94
5220	full	7.478	7.669	0.00	10.58		11.00 dBm/MHz	-0.42
5240	full	7.824	7.494	0.00	10.67		11.00 dBm/MHz	-0.33
5260	full	7.684	7.385	0.00	10.55		11.00 dBm/MHz	-0.45
5300	full	7.510	7.252	0.00	10.39		11.00 dBm/MHz	-0.61
5320	full	4.820	5.051	0.00	7.95		11.00 dBm/MHz	-3.05
	26/8	3.769	4.940	0.00	7.40		11.00 dBm/MHz	-3.60
	52/40	4.068	4.861	0.00	7.49		11.00 dBm/MHz	-3.51
	106/54	4.426	5.088	0.00	7.78		11.00 dBm/MHz	-3.22
	52+26 MRU3	4.209	4.765	0.00	7.51		11.00 dBm/MHz	-3.49
	106+26 MRU2	4.090	4.529	0.00	7.33		11.00 dBm/MHz	-3.67
5500	full	4.778	4.667	0.00	7.73		11.00 dBm/MHz	-3.27
	26/0	4.271	4.449	0.00	7.37		11.00 dBm/MHz	-3.63
	52/37	4.413	4.181	0.00	7.31		11.00 dBm/MHz	-3.69
	106/53	4.399	4.353	0.00	7.39		11.00 dBm/MHz	-3.61
	52+26 MRU1	4.365	4.402	0.00	7.39		11.00 dBm/MHz	-3.61
	106+26 MRU1	4.199	4.464	0.00	7.34		11.00 dBm/MHz	-3.66
5580	full	6.973	7.480	0.00	10.24		11.00 dBm/MHz	-0.76
5700	full	2.230	2.563	0.00	5.41		11.00 dBm/MHz	-5.59
	26/8	1.970	2.375	0.00	5.19		11.00 dBm/MHz	-5.81
	52/40	1.950	2.191	0.00	5.08		11.00 dBm/MHz	-5.92
	106/54	2.240	1.773	0.00	5.02		11.00 dBm/MHz	-5.98
	52+26 MRU3	2.065	1.929	0.00	5.01		11.00 dBm/MHz	-5.99
	106+26 MRU2	1.826	1.974	0.00	4.91		11.00 dBm/MHz	-6.09
5720 (U-NII 2C)	full	2.210	2.482	0.00	5.36		11.00 dBm/MHz	-5.64
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	full	-3.521	-3.296	0.00	2.22	1.82	30.00 dBm/500kHz	-28.18
5745	full	4.197	3.352	0.00	2.22	9.03	30.00 dBm/500kHz	-20.97
	26/0	3.413	3.139	0.00	2.22	8.51	30.00 dBm/500kHz	-21.49
	52/37	3.395	3.031	0.00	2.22	8.45	30.00 dBm/500kHz	-21.55
	106/53	3.257	3.319	0.00	2.22	8.52	30.00 dBm/500kHz	-21.48
	52+26 MRU1	3.301	3.007	0.00	2.22	8.39	30.00 dBm/500kHz	-21.61
	106+26 MRU1	3.692	3.400	0.00	2.22	8.78	30.00 dBm/500kHz	-21.22
5785	full	5.263	4.183	0.00	2.22	9.99	30.00 dBm/500kHz	-20.01
5825	full	4.581	5.036	0.00	2.22	10.04	30.00 dBm/500kHz	-19.96
	26/8	4.441	4.654	0.00	2.22	9.78	30.00 dBm/500kHz	-20.22
	52/40	3.739	3.905	0.00	2.22	9.05	30.00 dBm/500kHz	-20.95
	106/54	4.738	4.380	0.00	2.22	9.79	30.00 dBm/500kHz	-20.21
	52+26 MRU3	4.389	4.034	0.00	2.22	9.45	30.00 dBm/500kHz	-20.55
	106+26 MRU2	4.194	4.399	0.00	2.22	9.53	30.00 dBm/500kHz	-20.47

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POWER DENSITY 802.11be EHT40 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5190	full	0.798	0.413	0.00	3.62		11.00 dBm/MHz	-7.38
5230	full	6.013	6.653	0.00	9.36		11.00 dBm/MHz	-1.64
5270	full	6.400	6.150	0.00	9.29		11.00 dBm/MHz	-1.71
5310	full	-1.955	-1.717	0.00	1.18		11.00 dBm/MHz	-9.82
5510	full	-0.889	-1.067	0.00	2.03		11.00 dBm/MHz	-8.97
5550	full	6.277	5.547	0.00	8.94		11.00 dBm/MHz	-2.06
5670	full	0.975	1.167	0.00	4.08		11.00 dBm/MHz	-6.92
5710 (U-NII 2C)	full	5.780	5.674	0.00	8.74		11.00 dBm/MHz	-2.26
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	full	0.599	0.641	0.00	2.22	5.85	30.00 dBm/500kHz	-24.15
5755	full	-0.720	-1.010	0.00	2.22	4.37	30.00 dBm/500kHz	-25.63
5795	full	-0.346	-0.574	0.00	2.22	4.77	30.00 dBm/500kHz	-25.23
POWER DENSITY 802.11be EHT80 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5210	full	-3.531	-3.791	0.00	-0.65		11.00 dBm/MHz	-11.65
	SU_Punct20_Mid2	-3.179	-4.500	0.00	-0.78		11.00 dBm/MHz	-11.78
	RU484+242_Punc20	-3.485	-3.974	0.00	-0.71		11.00 dBm/MHz	-11.71
5290	full	-7.551	-7.524	0.00	-4.53		11.00 dBm/MHz	-15.53
	SU_Punct20_Mid2	-7.739	-7.914	0.00	-4.82		11.00 dBm/MHz	-15.82
	RU484+242_Punc20	-8.805	-7.102	0.00	-4.86		11.00 dBm/MHz	-15.86
5530	full	-5.658	-5.438	0.00	-2.54		11.00 dBm/MHz	-13.54
	SU_Punct20_Mid2	-6.052	-5.729	0.00	-2.88		11.00 dBm/MHz	-13.88
	RU484+242_Punc20	-6.077	-5.479	0.00	-2.76		11.00 dBm/MHz	-13.76
5610	full	-0.611	-0.331	0.00	2.54		11.00 dBm/MHz	-8.46
5690 (U-NII 2C)	full	0.434	0.277	0.00	3.37		11.00 dBm/MHz	-7.63
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	full	-4.726	-4.118	0.00	2.22	0.82	30.00 dBm/500kHz	-29.18
5775	full	-6.687	-6.801	0.00	2.22	-1.51	30.00 dBm/500kHz	-31.51
	SU_Punct20_Mid2	-7.390	-6.715	0.00	2.22	-1.81	30.00 dBm/501kHz	-31.81
	RU484+242_Punc20	-6.883	-6.662	0.00	2.22	-1.54	30.00 dBm/502kHz	-31.54
POWER DENSITY 802.11be EHT160 MODE								
Frequency (MHz)	RU config.	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5250	full	-7.508	-7.957	0.00	-4.72		11.00 dBm/MHz	-15.72
	996/67	-7.568	-8.277	0.00	-4.90		11.00 dBm/MHz	-15.90
	SU_Punct20_Mid3	-7.819	-7.815	0.00	-4.81		11.00 dBm/MHz	-15.81
	SU_Punct40_Mid2	-7.997	-7.669	0.00	-4.82		11.00 dBm/MHz	-15.82
	RU996+484_Punc40	-7.915	-7.653	0.00	-4.77		11.00 dBm/MHz	-15.77
	996+484 MRU4	-8.487	-7.956	0.00	-5.20		11.00 dBm/MHz	-16.20
5570	full	-8.817	-8.290	0.00	-5.54		11.00 dBm/MHz	-16.54
	996/67	-8.983	-8.514	0.00	-5.73		11.00 dBm/MHz	-16.73
	SU_Punct20_High	-8.688	-8.775	0.00	-5.72		11.00 dBm/MHz	-16.72
	SU_Punct40_High	-9.025	-8.860	0.00	-5.93		11.00 dBm/MHz	-16.93
	RU996+484_Punc40	-8.936	-8.506	0.00	-5.71		11.00 dBm/MHz	-16.71
	996+484 MRU4	-9.258	-8.793	0.00	-6.01		11.00 dBm/MHz	-17.01

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