

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Product Name: Clover Mini

Brand Name: Clover

Model No.: C305

Model Difference: N/A

Report Number: E2/2022/20117

FCC ID HFS-C305

IC: 1787B-C305

Issue Date: April 14, 2022

Date of Test: March 9, 2022 ~ March 25, 2022

Date of EUT Received: February 22, 2022

Approved By _____

Jay Lin

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISED RSS-247.

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
E2/2022/20117	00	Original	April 14, 2022	Yuri Tsai	

Note:

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

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Clover Mini
Brand Name:	Clover
Model No.:	C305
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	C035UT20430016
Power Supply:	12V from Adapter
Test Software (Name/Version)	QRCT / 4.0.00163.0

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
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
	802.11 n_40MHz: 13.5 - 300 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps

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1.3 Antenna Designation

Antenna Type	Freq. (MHz)	Main / Aux	Peak Antenna Gain (dBi)	Directional Gain (dBi)
PIFA	5150~5250	Main	2.77	5.62
	5250~5350		2.45	5.20
	5470~5725		2.81	5.85
	5725~5850		3.47	6.24
PIFA	5150~5250	Aux	2.45	5.62
	5250~5350		1.92	5.20
	5470~5725		2.86	5.85
	5725~5850		2.99	6.24

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)	Modulation Technology
a/ n_HT/ ac_VHT 20M	5180~5240	4	16.44 dBm	OFDM
	5260~5320	4	20.49 dBm	OFDM
	5500~5720	12	20.48 dBm	OFDM
	5745~5825	5	20.47 dBm	OFDM
n_HT/ ac_VHT 40M	5190~5230	2	15.45 dBm	OFDM
	5270~5310	2	19.45 dBm	OFDM
	5510~5710	6	19.48 dBm	OFDM
	5755~5795	2	19.47 dBm	OFDM
ac_VHT 80M	5210	1	15.41 dBm	OFDM
	5290	1	18.43 dBm	OFDM
	5530~5690	3	18.44 dBm	OFDM
	5775	1	18.47 dBm	OFDM

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1.5 ISED

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
a/ n_HT/ ac_VHT 20M	5180~5240	4	EIRP	21.01	dBm	OFDM
	5260~5320	4	Avg	20.49	dBm	OFDM
	5500~5700	11	Avg	20.48	dBm	OFDM
	5720 (U-NII 2C)	1	Avg	19.03	dBm	OFDM
	5720 (U-NII 3)	1	Avg	14.88	dBm	OFDM
	5745-5825	5	Avg	20.47	dBm	OFDM
n_HT/ ac_VHT 40M	5190~5230	2	EIRP	21.07	dBm	OFDM
	5270~5310	2	Avg	19.45	dBm	OFDM
	5510~5670	5	Avg	19.48	dBm	OFDM
	5710 (U-NII 2C)	1	Avg	18.85	dBm	OFDM
	5710 (U-NII 3)	1	Avg	10.70	dBm	OFDM
	5755-5795	2	Avg	19.47	dBm	OFDM
ac_VHT 80M	5210	1	EIRP	21.03	dBm	OFDM
	5290	1	Avg	18.43	dBm	OFDM
	5530~5610	2	Avg	18.44	dBm	OFDM
	5690 (U-NII 2C)	1	Avg	17.96	dBm	OFDM
	5690 (U-NII 3)	1	Avg	9.01	dBm	OFDM
	5775	1	Avg	18.47	dBm	OFDM

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1.6 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
 RSS-247 issue 2 Feb. 2017
 RSS-Gen, Issue 5 (Amendment 2, February 2021)
 ANSI C63.10:2013

1.7 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 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.

1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 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:

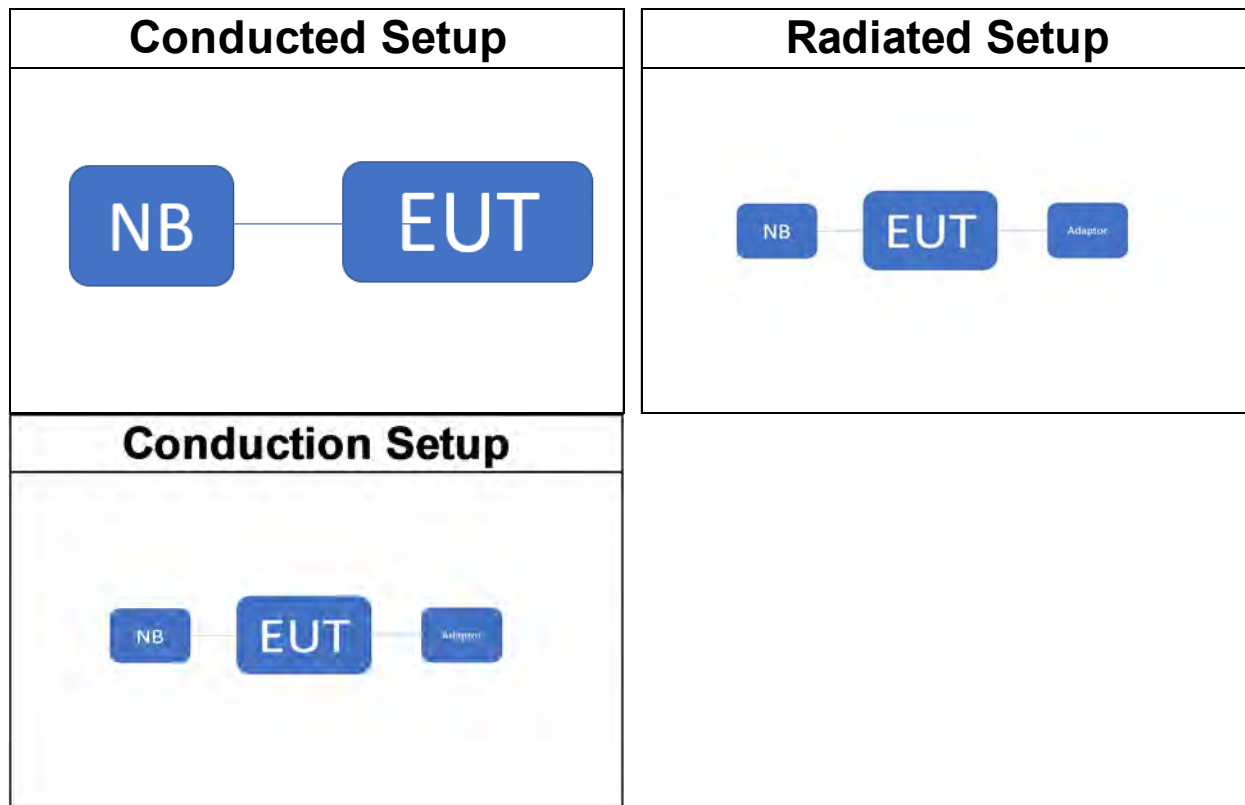
The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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2.5 Test Configuration



2.6 Control Unit(s)

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Notebook	Lenovo	L480	PF-1PG38Y	N/A	N/A
Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Clover	FSP040-RHBN3	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A
AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Adapter	Clover	FSP040-RHBN3	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(e)	RSS-Gen §6.7 RSS-247 §6.2.4.1	Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.203	N/A	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	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290
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)
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		Transmission Chain							Single Transmission Spatial		Multiple Transmission Spatial		
v	802.11 a	v	Ch0	v	Ch1		Ch2		Ch3	v	1TX		2TX
v	802.11 n	v	Ch0	v	Ch1		Ch2		Ch3	v	SISO	v	MIMO
v	802.11 ac	v	Ch0	v	Ch1		Ch2		Ch3	v	SISO	v	MIMO
	802.11 ax		Ch0		Ch1		Ch2		Ch3		SISO		MIMO

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.

RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	44	OFDM	6	ch0
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			

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RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	ch0
	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	OFDM	HT8	MIMO
	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	OFDM	HT8	MIMO
	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	OFDM	VHT0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	ch0
	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	OFDM	HT8	MIMO
	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	OFDM	HT8	MIMO
	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	OFDM	VHT0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

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	+/- 2.34 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 1.62 dB
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

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

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 MEASUREMENT EQUIPMENT USED

6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess- Elektronik	NSLK8127	974	04/19/2021	04/18/2022
EMI Test Receiver	R&S	ESCI	101342	04/28/2021	04/27/2022
Coaxial Cable	EC Lab	RF-HY-CAB- 250	RF-HY-CAB- 250-01	03/27/2021	03/26/2022
Pulse Limiter	EC Lab	VTSD 9561F- N	485	03/27/2021	03/26/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

6.2 Condcuted Measurement

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Power Meter	Anritsu	ML2496A	1326001	08/12/2021	08/11/2022
Power Sensor	Anritsu	MA2411B	1315048	08/12/2021	08/11/2022
Power Sensor	Anritsu	MA2411B	1315049	08/12/2021	08/11/2022
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/06/2021	04/05/2022
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R
Attenuator	Marvelous	MVE2213-10	RF13	11/18/2021	11/17/2022
Attenuator	Marvelous	MVE2213-10	RF14	11/18/2021	11/17/2022
Attenuator	Marvelous	MVE2213-10	RF12	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF151	11/18/2021	11/17/2022

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6.3 Radiated Measurement

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/12/2021	11/11/2022
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC12630SE	980273	11/18/2021	11/17/2022
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF17	11/18/2021	11/17/2022
Lowpass Filter	Woken	EWT-56-0019	RF173	11/18/2021	11/17/2022
Notch Filter	Woken	EWT-14-0251	RF179	11/18/2021	11/17/2022
Notch Filter	Woken	EWT-14-0275	RF180	11/18/2021	11/17/2022
Notch Filter	Woken	EWT-14-0251	RF181	11/18/2021	11/17/2022
Band Reject Filter	Titan Microwave Co. Ltd	T04N5725589 550S01	210519-2-2	07/27/2021	07/26/2022

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

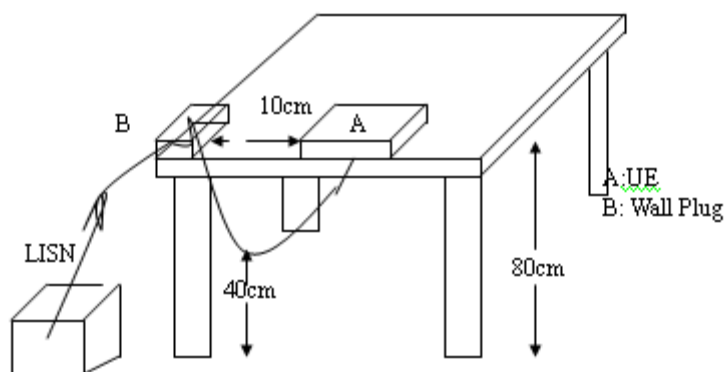
Note

- 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.

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7.5 Measurement Result

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

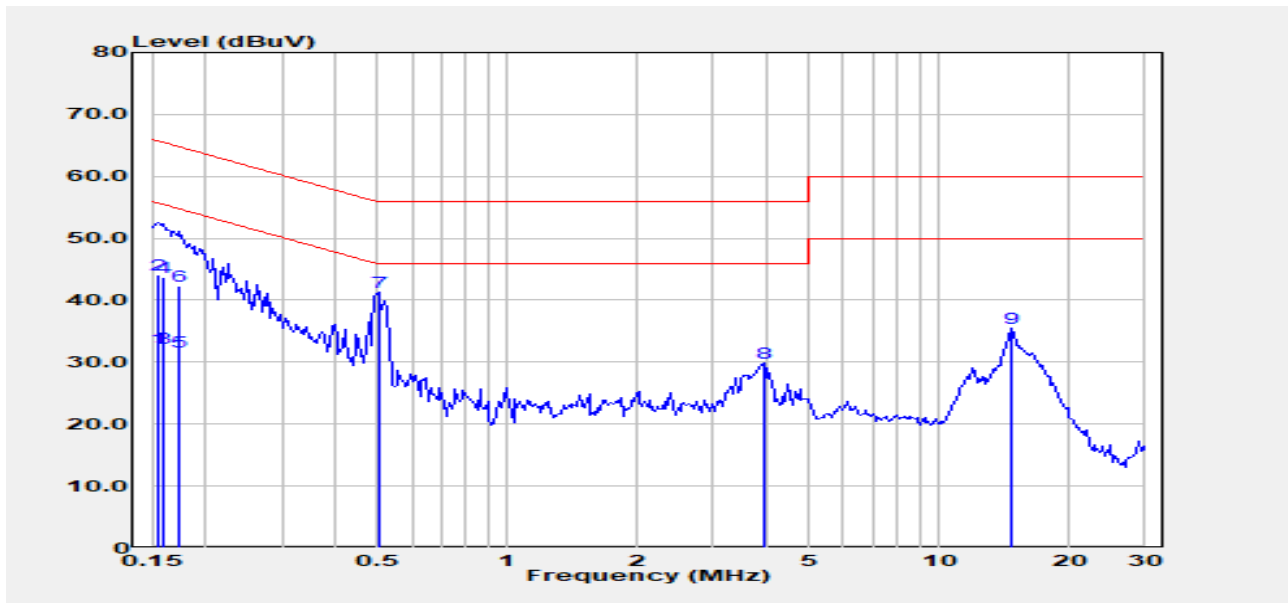
Note2: The * reveals the worst-case results that closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:E2/2022/20117	Test Site	:Conduction C
Test Mode	:5G	Test Date	:2022-03-21
Power	:120V/60Hz	Temp./Humi.	:21.3/66
Probe	:L1	Engineer	:Andy Wang
Note:	: Adapter:FSP040-RHBN3		



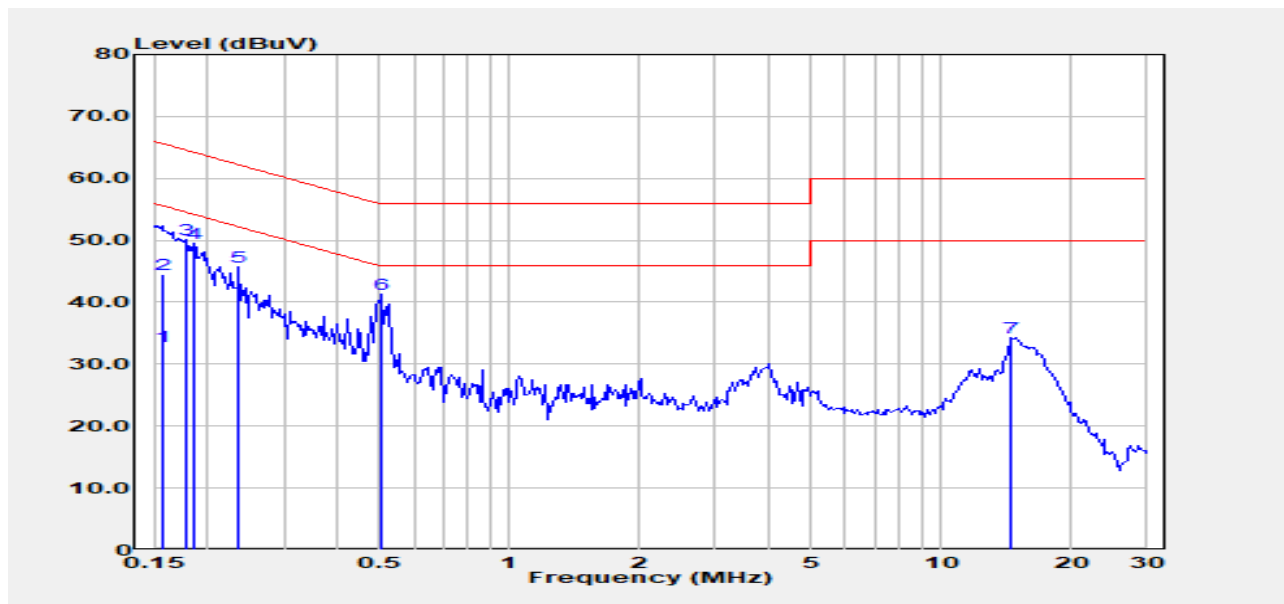
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.155	Average	22.00	10.30	32.30	55.74	-23.44
0.155	QP	33.90	10.30	44.20	65.74	-21.54
0.160	Average	21.90	10.30	32.20	55.47	-23.27
0.160	QP	33.50	10.30	43.80	65.47	-21.67
0.174	Average	21.40	10.30	31.70	54.77	-23.07
0.174	QP	32.10	10.30	42.40	64.77	-22.37
0.502	Peak	30.95	10.31	41.26	56.00	-14.74
3.922	Peak	19.24	10.70	29.94	56.00	-26.06
14.750	Peak	24.75	10.78	35.53	60.00	-24.47

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Report Number :E2/2022/20117 Test Site :Conduction C
 Test Mode :5G Test Date :2022-03-21
 Power :120V/60Hz Temp./Humi. :21.3/66
 Probe :N Engineer :Andy Wang
 Note: : Adapter:FSP040-RHBN3



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
0.156	Average	22.60	10.31	32.91	55.65	-22.74
0.156	QP	34.30	10.31	44.61	65.65	-21.04
0.178	Peak	39.89	10.30	50.20	64.59	-14.39
0.185	Peak	39.21	10.30	49.52	64.24	-14.72
0.237	Peak	35.44	10.30	45.74	62.22	-16.47
0.507	Peak	30.93	10.32	41.25	56.00	-14.75
14.440	Peak	23.41	10.86	34.27	60.00	-25.73

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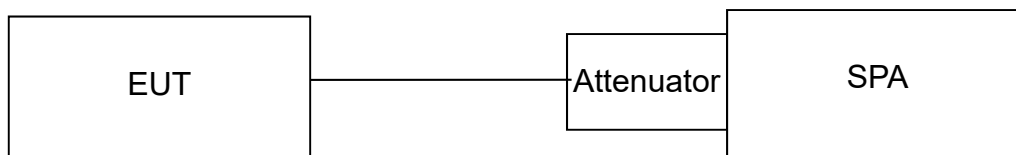
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8 EMISSION BANDWIDTH MEASUREMENT

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 = $3 \times \text{RBW}$,
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. For 99% Bandwidth: Set the spectrum analyzer as
RBW = 1%,
VBW = $3 \times \text{RBW}$,
Span = large enough to capture all products of the modulation process,
Detector=Sample,

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Sweep=auto.

7. Turn on the 99% bandwidth function, max reading.
8. 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	23.57	13.720
5220	22.54	13.530
5240	23.70	13.750
5260	22.70	13.560
5300	23.48	13.710
5320	23.48	13.710
5500	22.34	13.490
5580	21.64	13.350
5700	21.96	13.420
5720(U-NII 2C)	16.95	12.290
5720(U-NII 3)	6.95	8.420

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	23.57	13.720
5220	22.58	13.540
5240	21.32	13.290
5260	22.26	13.480
5300	21.11	13.240
5320	23.62	13.730
5500	22.68	13.560
5580	22.05	13.430
5700	23.02	13.620
5720(U-NII 2C)	16.15	12.080
5720(U-NII 3)	6.15	7.890

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	15.94	12.020
5785	15.47	11.890
5825	15.40	11.880

802.11a_Ch1

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

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.33	< 5250
5745	5736.75	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.33	< 5250
5745	5736.76	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.25	13.270
5220	21.55	13.330
5240	21.74	13.370
5260	22.55	13.530
5300	22.76	13.570
5320	22.79	13.580
5500	21.66	13.360
5580	22.49	13.520
5700	23.08	13.630
5720(U-NII 2C)	16.55	12.190
5720(U-NII 3)	6.55	8.160

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.66	13.360
5220	21.73	13.370
5240	23.14	13.640
5260	23.52	13.710
5300	22.85	13.590
5320	23.12	13.640
5500	21.95	13.410
5580	25.08	13.990
5700	22.34	13.490
5720(U-NII 2C)	15.94	12.020
5720(U-NII 3)	5.94	7.730

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.18	12.350
5785	15.95	12.030
5825	14.72	11.680

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.30	12.380
5785	16.92	12.280
5825	17.32	12.390

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.88	< 5250
5745	5736.17	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.89	< 5250
5745	5736.17	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.41	16.060
5230	40.63	16.090
5270	40.14	16.040
5310	40.84	16.110
5510	40.37	16.060
5550	41.02	16.130
5670	41.27	16.160
5710(U-NII 2C)	35.41	15.490
5710(U-NII 3)	5.41	7.330

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	40.67	16.090
5230	41.03	16.130
5270	40.40	16.060
5310	40.91	16.120
5510	40.69	16.090
5550	40.67	16.090
5670	40.46	16.070
5710(U-NII 2C)	35.42	15.490
5710(U-NII 3)	5.42	7.340

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.13	15.460
5795	36.34	15.600

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	35.67	15.520
5795	35.18	15.460

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.10	< 5250
5755	5736.98	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.11	< 5250
5755	5736.98	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	82.95	19.190
5290	90.55	19.570
5530	90.87	19.580
5610	90.01	19.540
5690(U-NII 2C)	80.25	19.040
5690(U-NII 3)	10.25	10.110

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.57	19.120
5290	89.65	19.530
5530	88.46	19.470
5610	90.25	19.550
5690(U-NII 2C)	80.18	19.040
5690(U-NII 3)	10.18	10.080

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.31	18.830

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.59	18.780

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.96	< 5250
5775	5737.20	> 5725

802.11ac_VHT80_Ch1

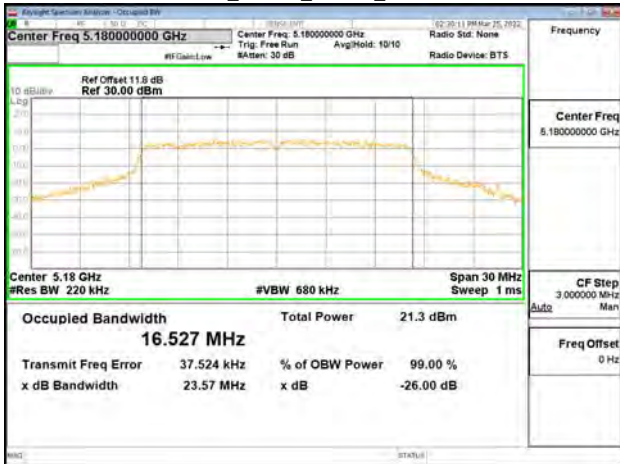
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.93	< 5250
5775	5737.24	> 5725

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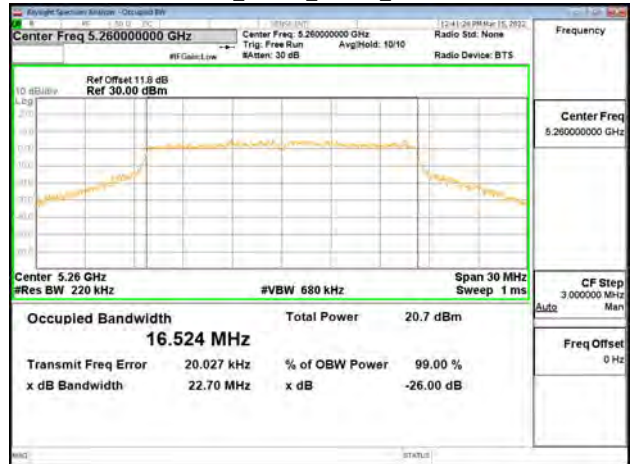
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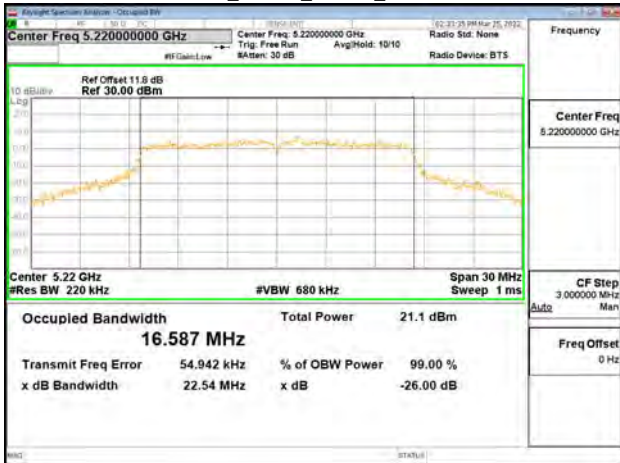
802.11a_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



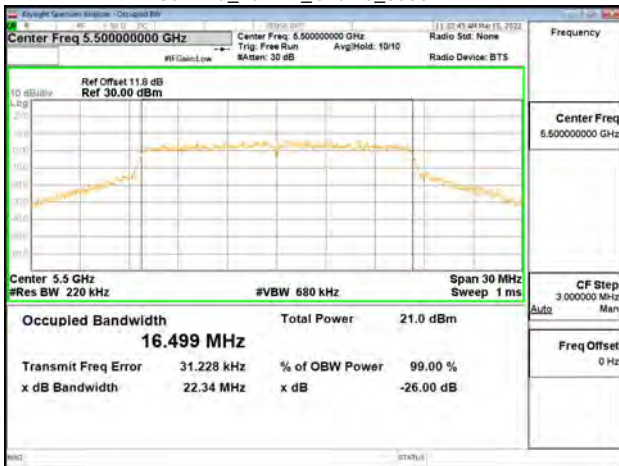
802.11a_20MHz_Chain0_5320MHz



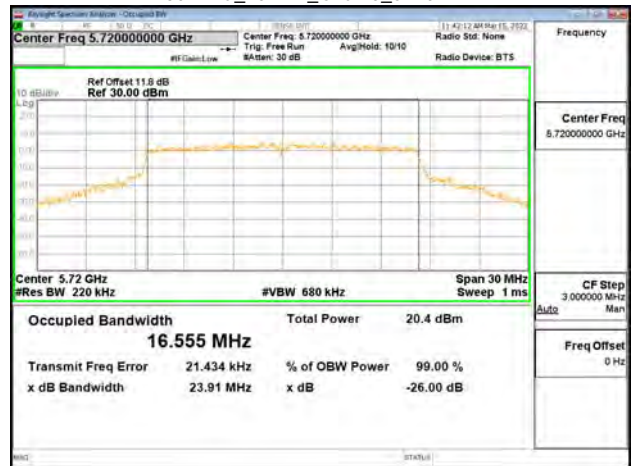
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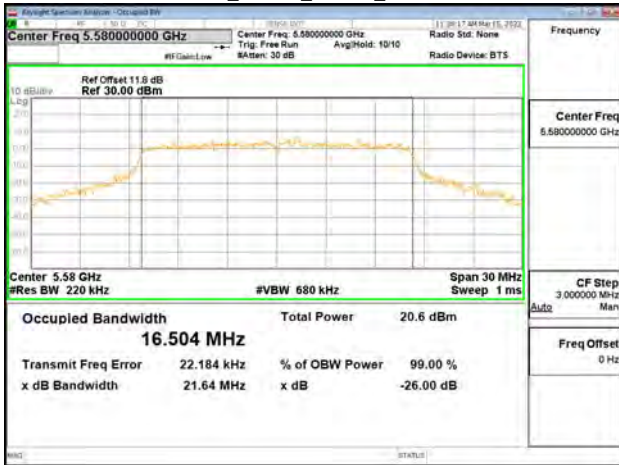
802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz



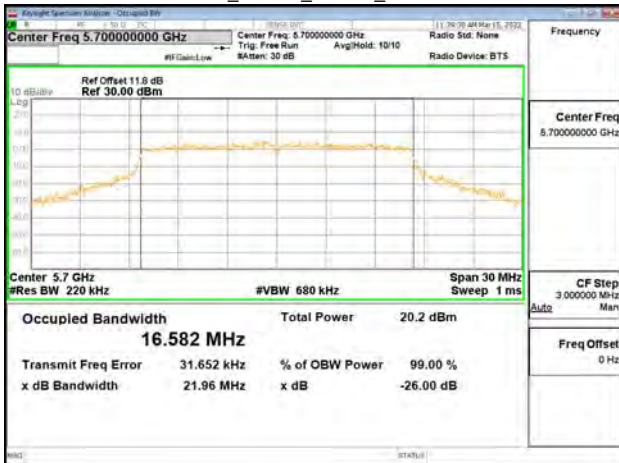
802.11a_20MHz_Chain0_5580MHz



802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz



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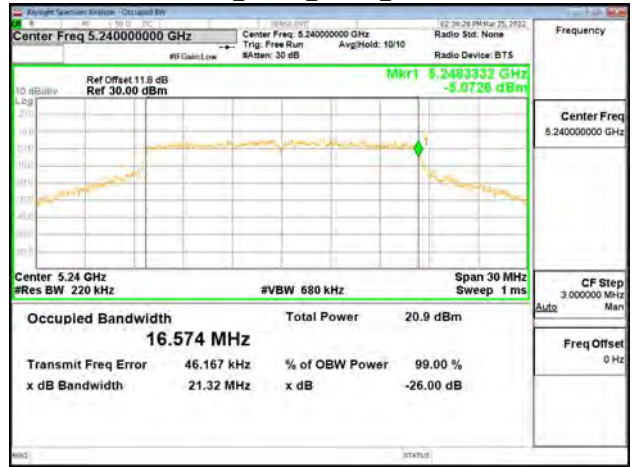
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802.11a_20MHz_Chain0_5825MHz



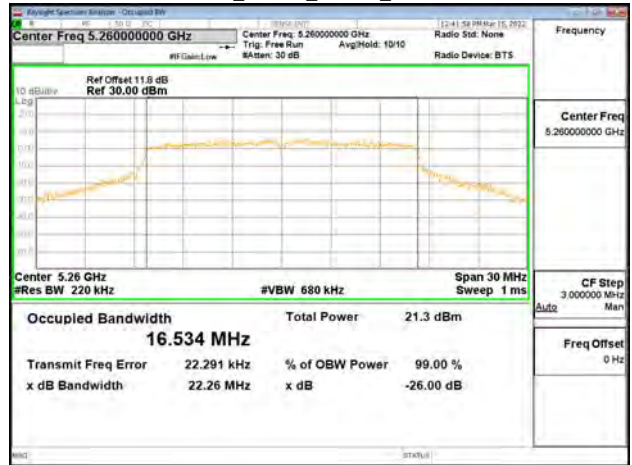
802.11a_20MHz_Chain1_5240MHz



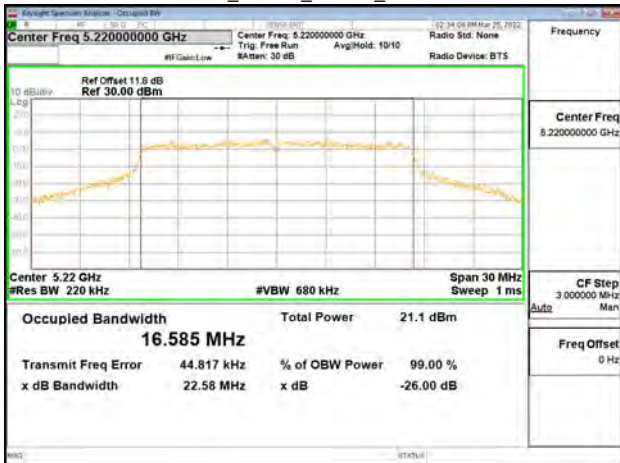
802.11a_20MHz_Chain1_5180MHz



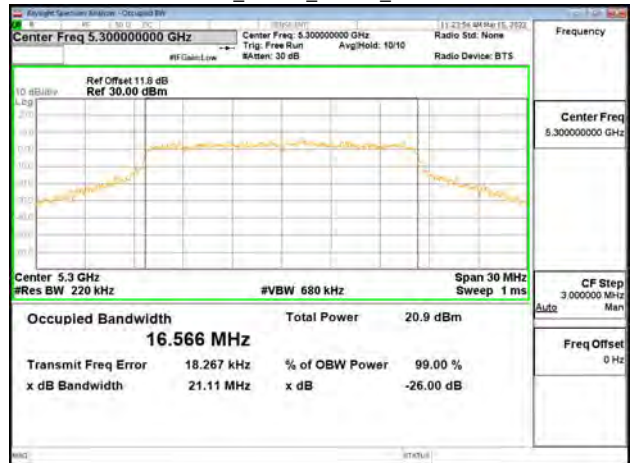
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz

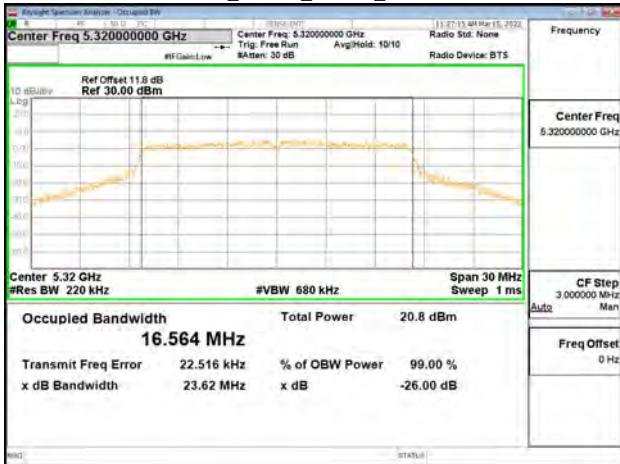


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802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz



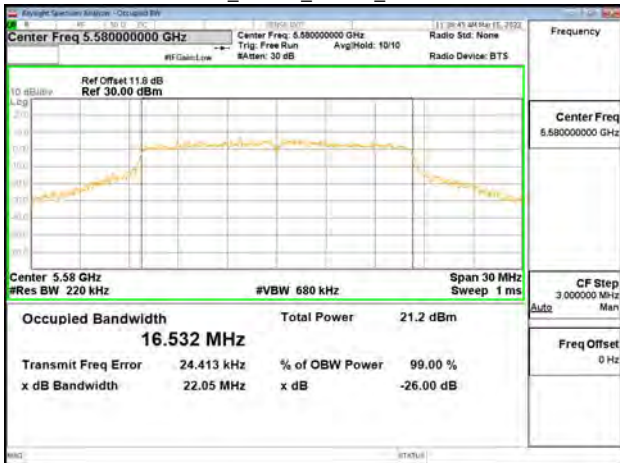
802.11a_20MHz_Chain1_5500MHz



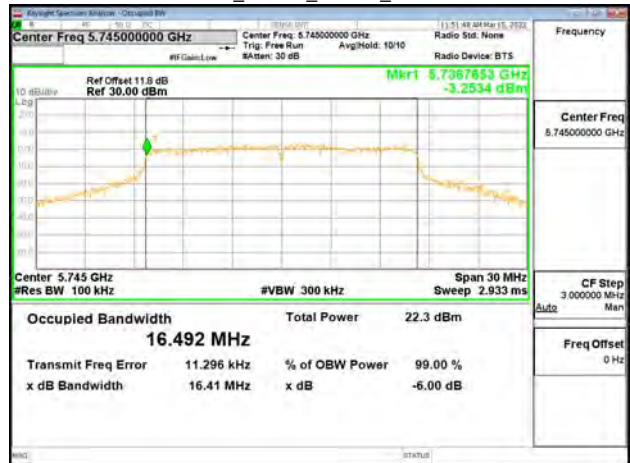
802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz



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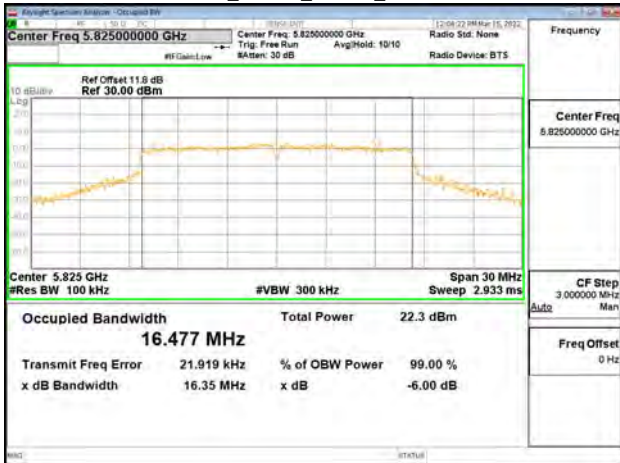
802.11a_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



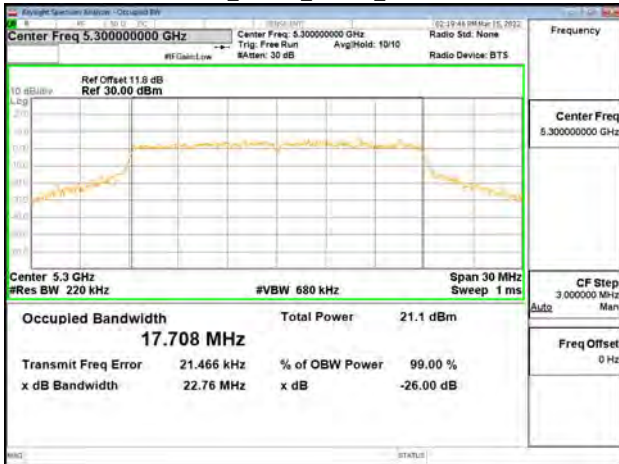
802.11n_20MHz_Chain0_5260MHz



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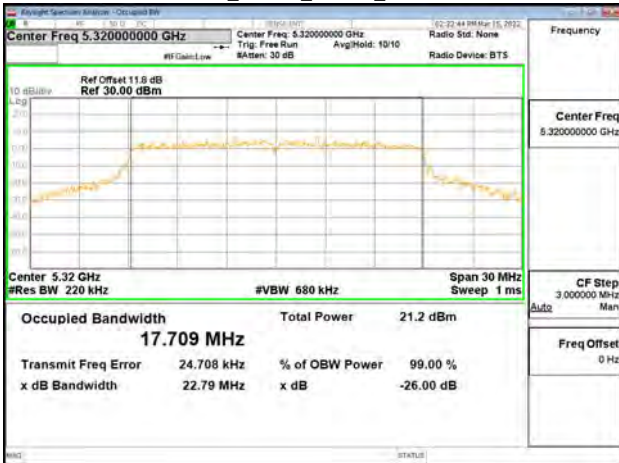
802.11n_20MHz_Chain0_5300MHz



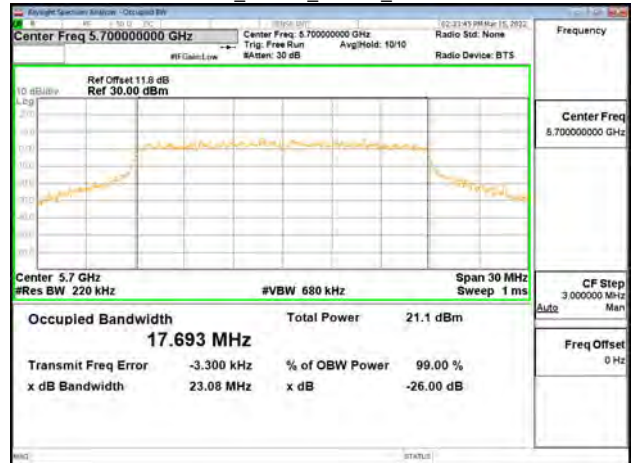
802.11n_20MHz_Chain0_5580MHz



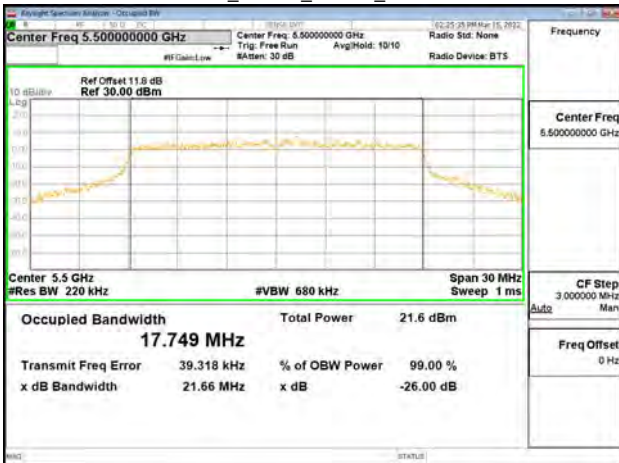
802.11n_20MHz_Chain0_5320MHz



802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz

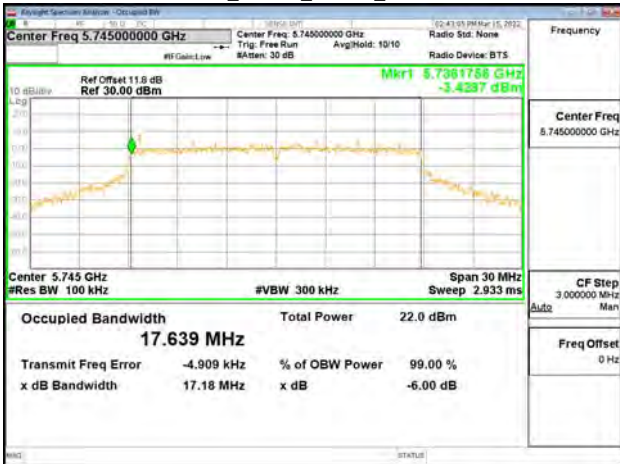


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802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain1_5180MHz



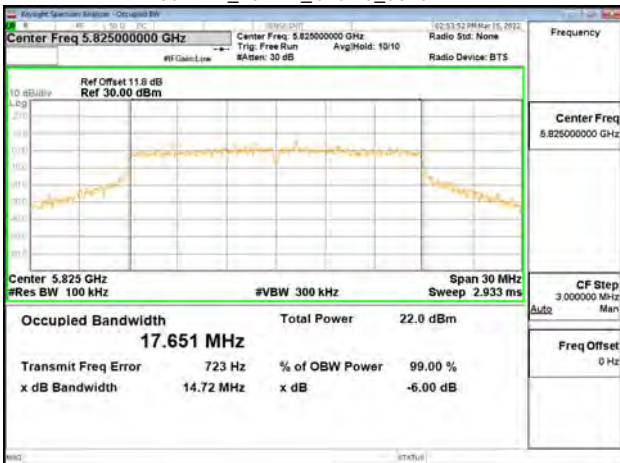
802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain1_5240MHz



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802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5500MHz



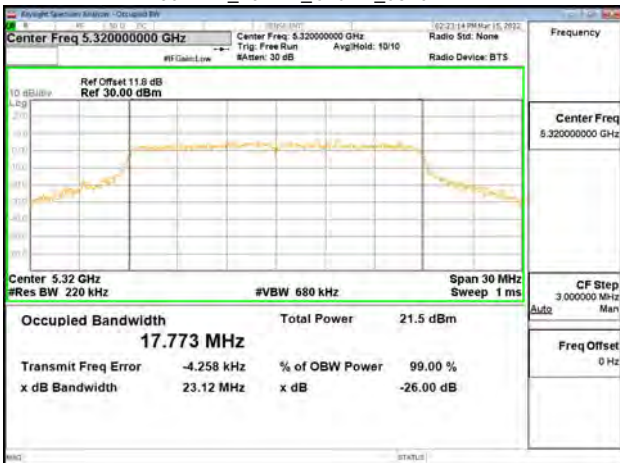
802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz



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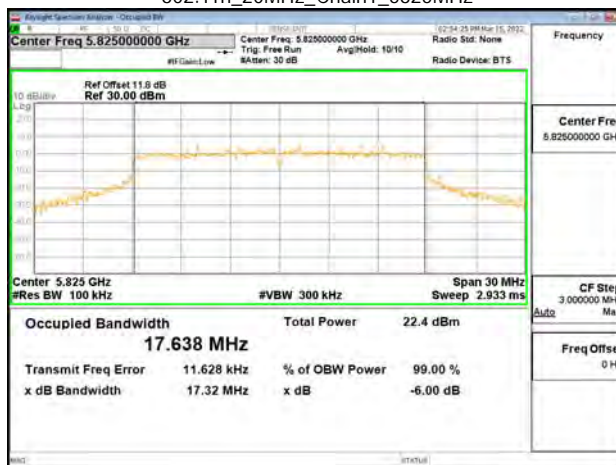
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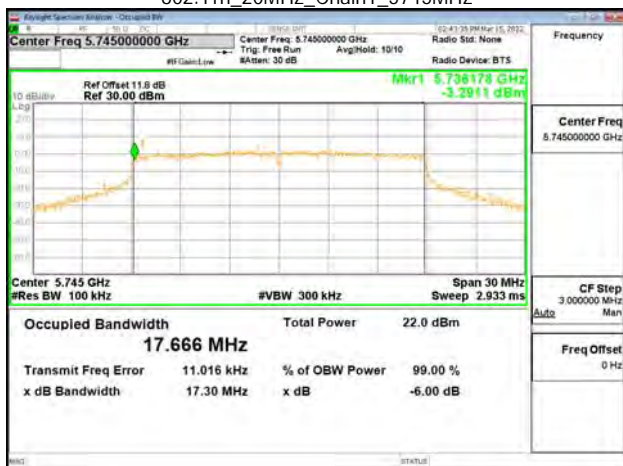
802.11n_20MHz_Chain1_5720MHz



802.11n_20MHz_Chain1_5825MHz



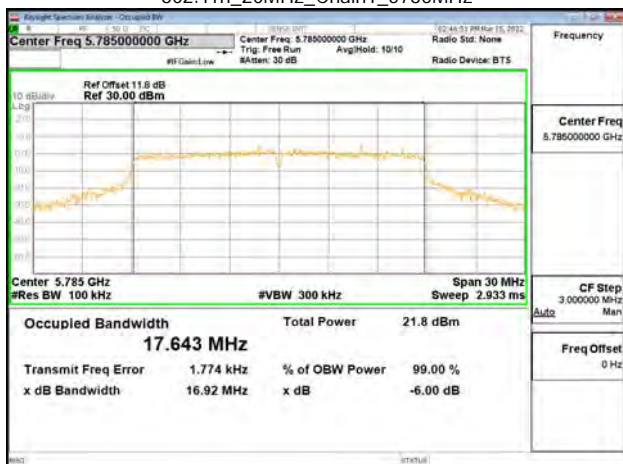
802.11n_20MHz_Chain1_5745MHz



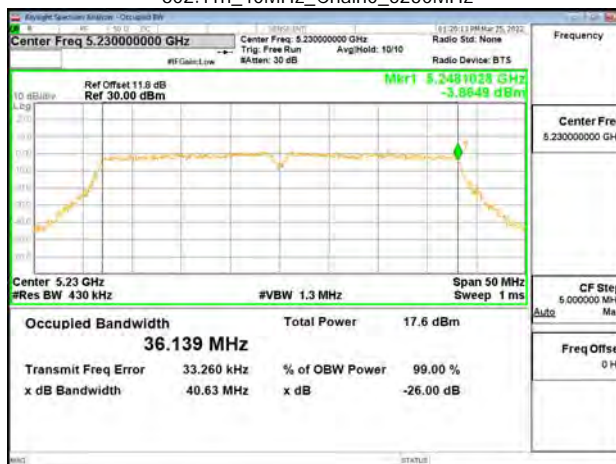
802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz

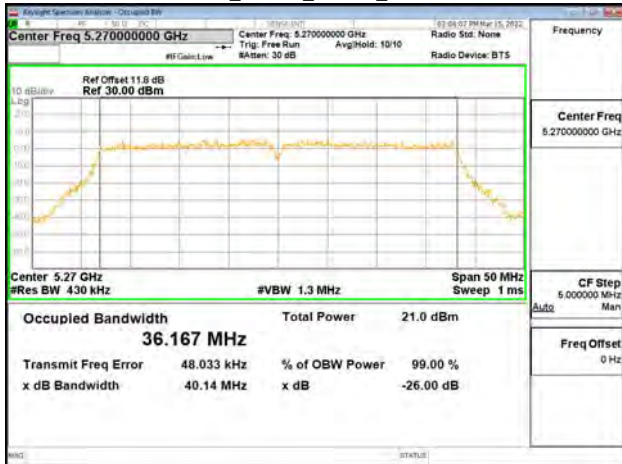


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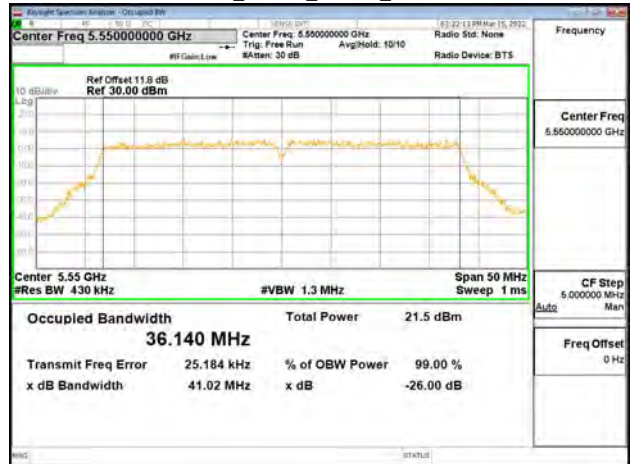
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802.11n_40MHz_Chain0_5270MHz



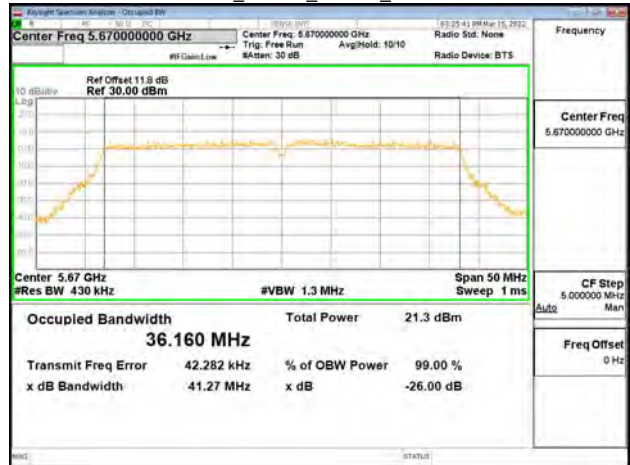
802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz

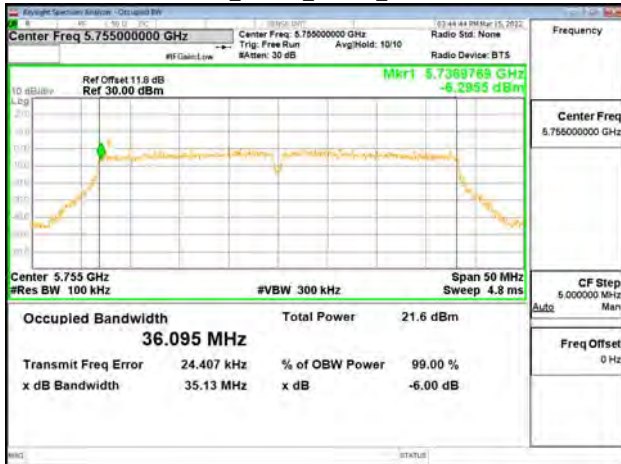


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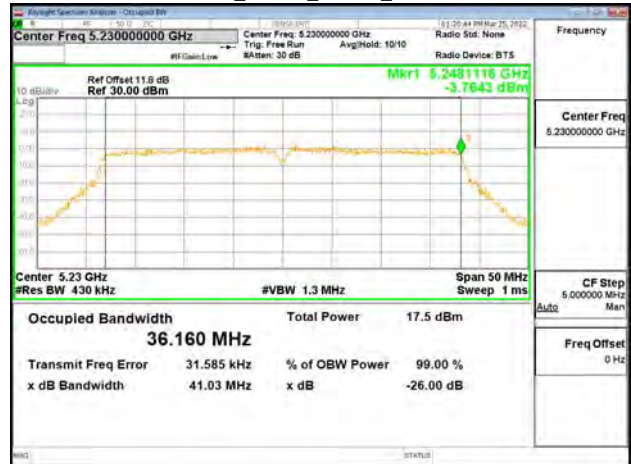
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802.11n_40MHz_Chain0_5755MHz



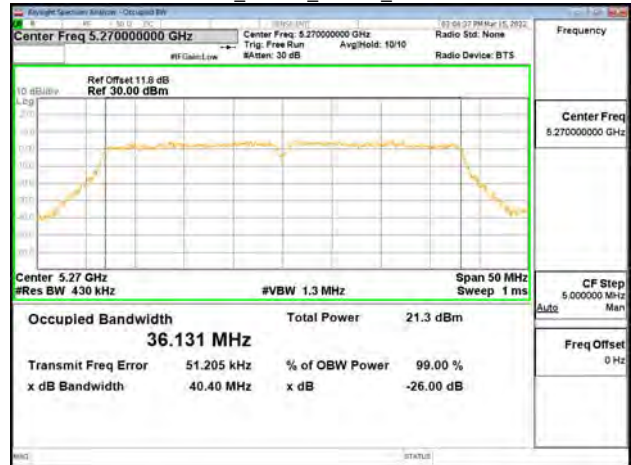
802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz

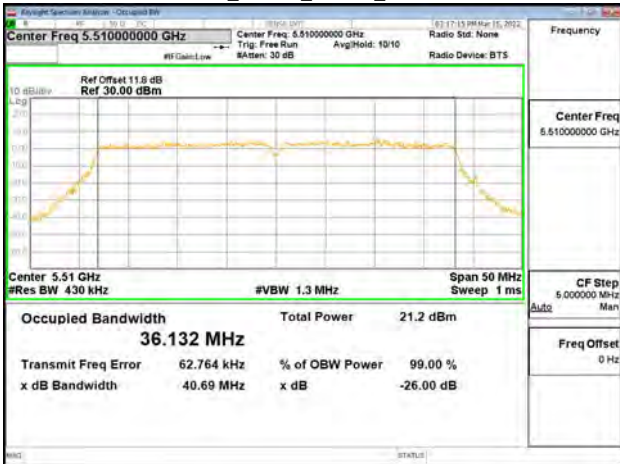


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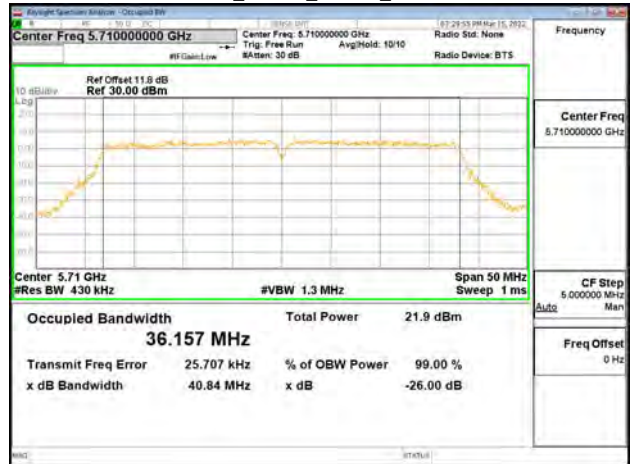
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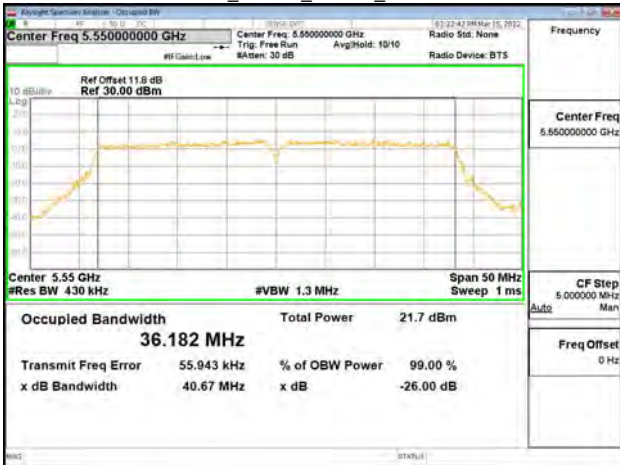
802.11n_40MHz_Chain1_5510MHz



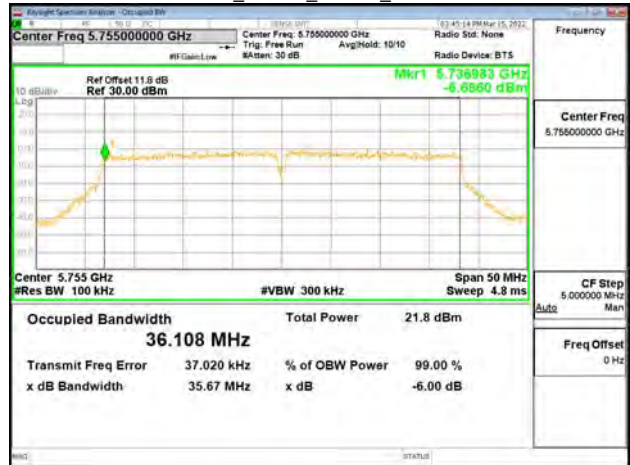
802.11n_40MHz_Chain1_5710MHz



802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz



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802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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802.11ac_80MHz_Chain1_5210MHz



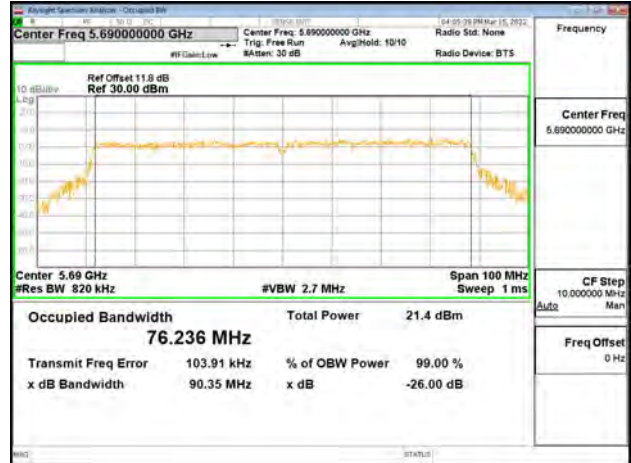
802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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8.4.2 ISED Occupied Bandwidth

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.550	12.190
5220	16.528	12.180
5240	16.561	12.190
5260	16.528	12.180
5300	16.537	12.180
5320	16.503	12.180
5500	16.510	12.180
5580	16.514	12.180
5700	16.535	12.180
5720(U-NII 2C)	13.248	11.220
5720(U-NII 3)	3.248	5.120

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.520	16.310
5785	16.541	16.360
5825	16.535	16.360

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802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.540	12.190
5220	16.511	12.180
5240	16.561	12.190
5260	16.510	12.180
5300	16.511	12.180
5320	16.543	12.190
5500	16.534	12.180
5580	16.504	12.180
5700	16.527	12.180
5720(U-NII 2C)	13.271	11.230
5720(U-NII 3)	3.271	5.150

802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.594	16.250
5785	16.554	16.140
5825	16.554	16.300

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802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.683	12.480
5220	17.704	12.480
5240	17.706	12.480
5260	17.685	12.480
5300	17.697	12.480
5320	17.700	12.480
5500	17.698	12.480
5580	17.708	12.480
5700	17.695	12.480
5720(U-NII 2C)	13.846	11.410
5720(U-NII 3)	3.846	5.850

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.718	17.450
5785	17.695	17.490
5825	17.728	17.410

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802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.685	12.480
5220	17.688	12.480
5240	17.701	12.480
5260	17.691	12.480
5300	17.703	12.480
5320	17.686	12.480
5500	17.733	12.490
5580	17.769	12.500
5700	17.734	12.490
5720(U-NII 2C)	13.868	11.420
5720(U-NII 3)	3.868	5.870

802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.741	17.430
5785	17.725	17.120
5825	17.752	17.390

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802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.120	15.580
5230	36.136	15.580
5270	36.217	15.590
5310	36.174	15.580
5510	36.198	15.590
5550	36.137	15.580
5670	36.229	15.590
5710(U-NII 2C)	33.085	15.200
5710(U-NII 3)	3.085	4.890

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.181	36.100
5795	36.123	36.070

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.221	15.590
5230	36.117	15.580
5270	36.120	15.580
5310	36.155	15.580
5510	36.147	15.580
5550	36.138	15.580
5670	36.164	15.580
5710(U-NII 2C)	33.091	15.200
5710(U-NII 3)	3.091	4.900

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.163	36.270
5795	36.094	36.040

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802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.616	18.790
5290	76.112	18.810
5530	76.016	18.810
5610	76.076	18.810
5690(U-NII 2C)	73.054	18.640
5690(U-NII 3)	3.054	4.850

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	76.296	76.690

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.477	18.780
5290	76.196	18.820
5530	76.106	18.810
5610	75.979	18.810
5690(U-NII 2C)	73.095	18.640
5690(U-NII 3)	3.095	4.910

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.970	76.500

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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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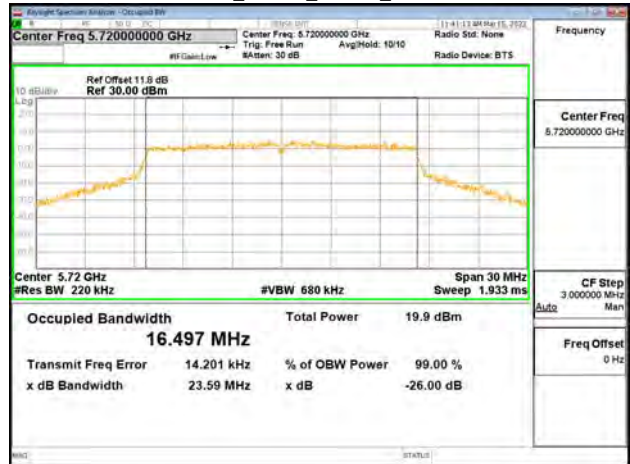
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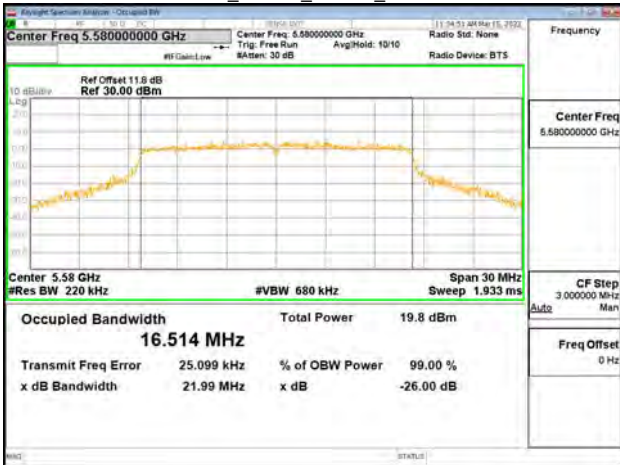
802.11a_20MHz_Chain0_5500MHz



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



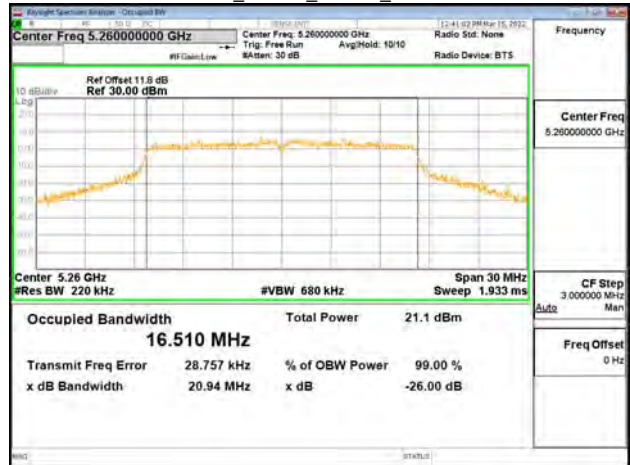
802.11a_20MHz_Chain1_5240MHz



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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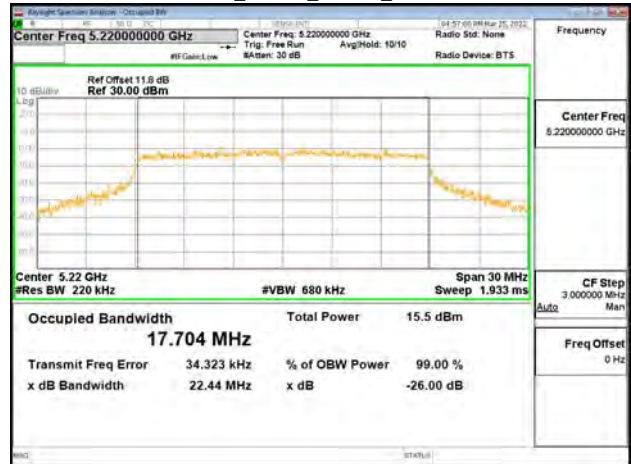
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802.11a_20MHz_Chain1_5785MHz



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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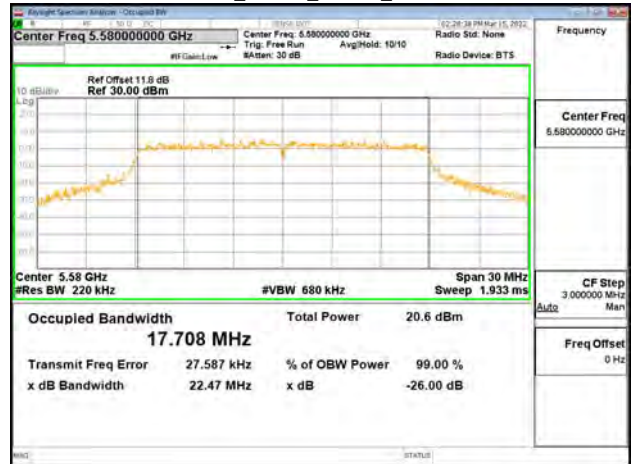
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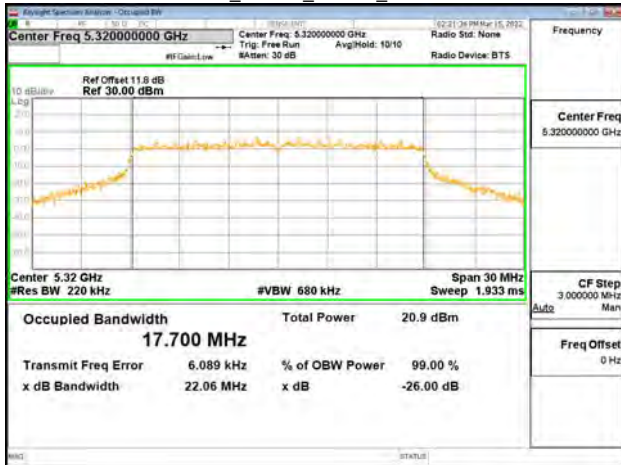
802.11n_20MHz_Chain0_5300MHz



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

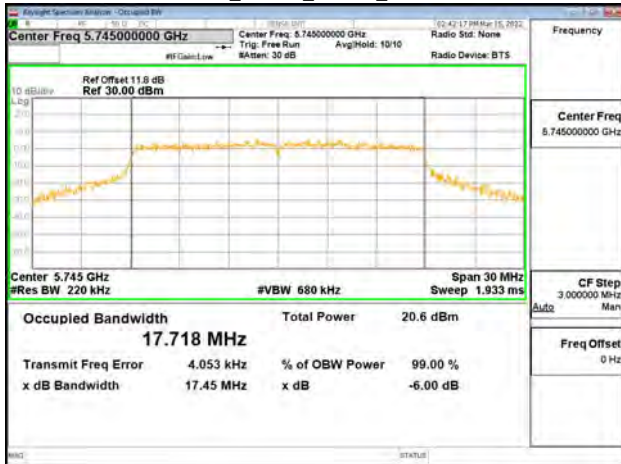


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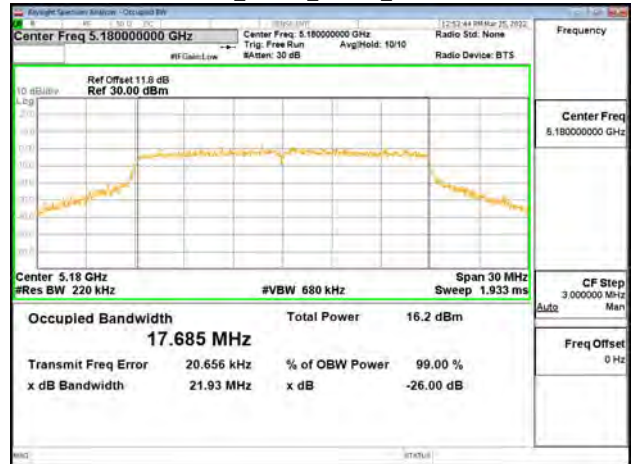
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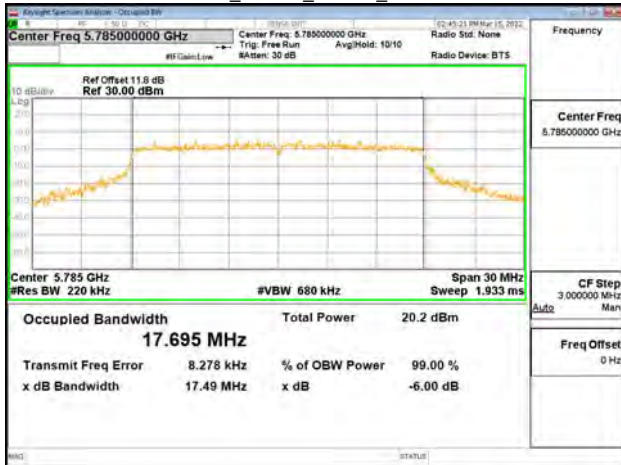
802.11n_20MHz_Chain0_5745MHz



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

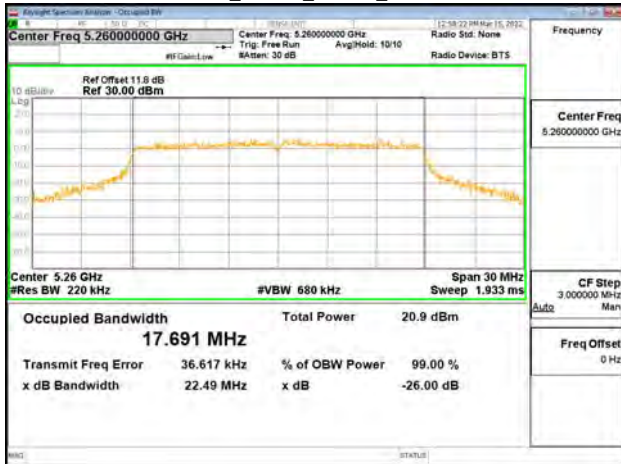


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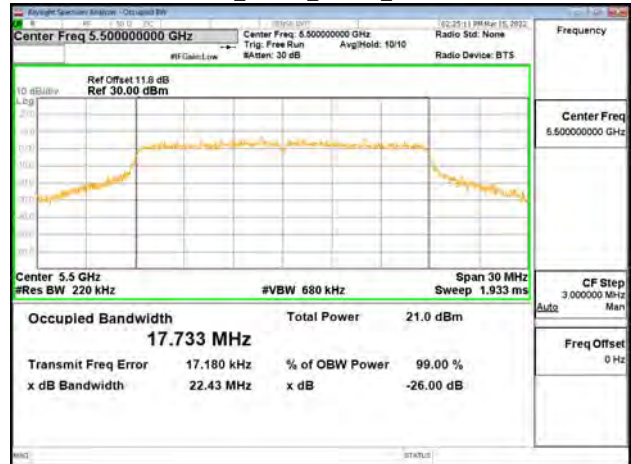
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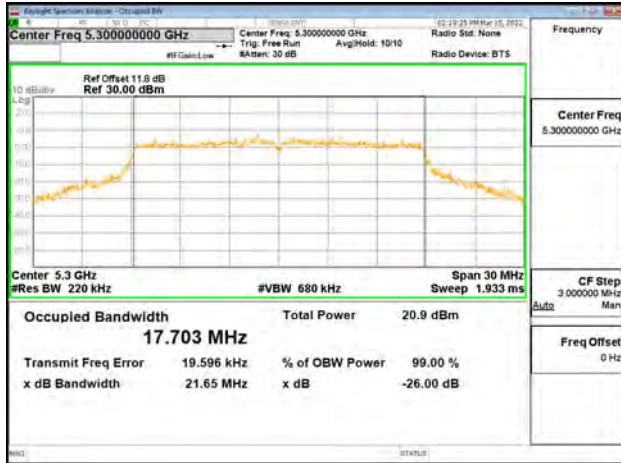
802.11n_20MHz_Chain1_5260MHz



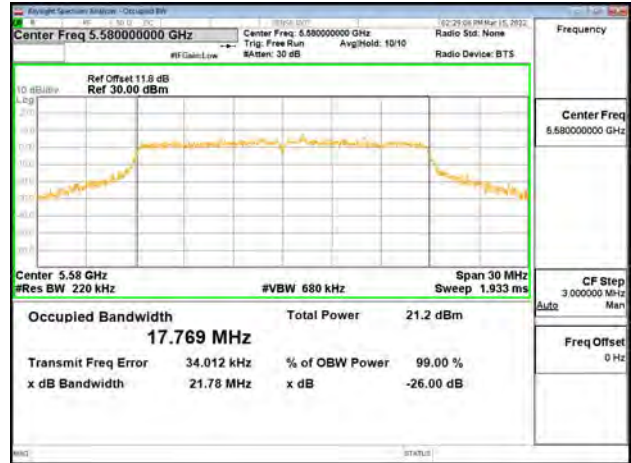
802.11n_20MHz_Chain1_5500MHz



802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz

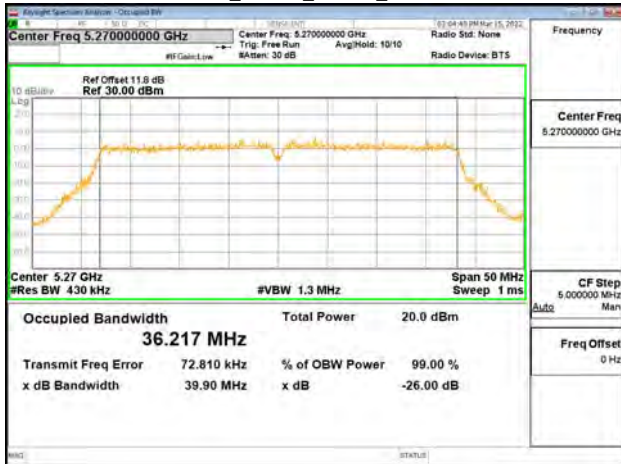


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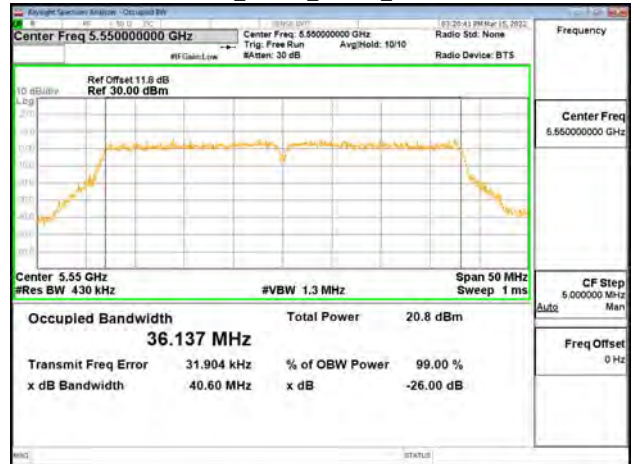
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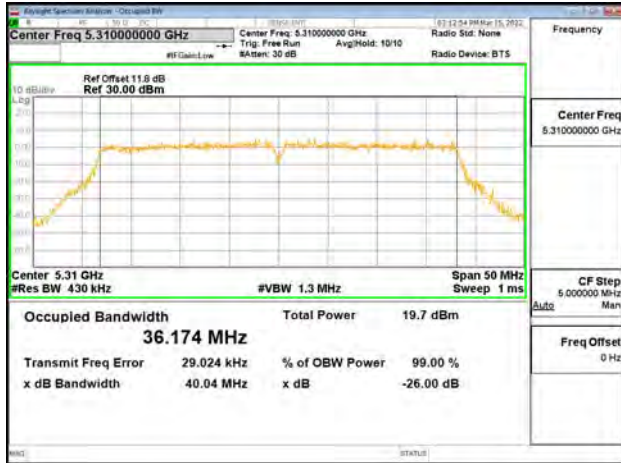
802.11n_40MHz_Chain0_5270MHz



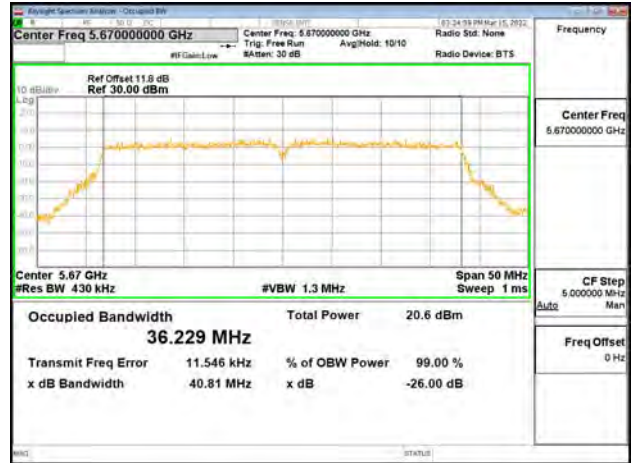
802.11n_40MHz_Chain0_5550MHz



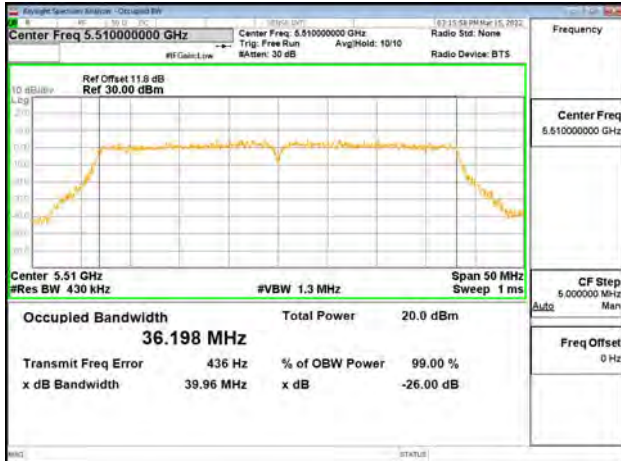
802.11n_40MHz_Chain0_5310MHz



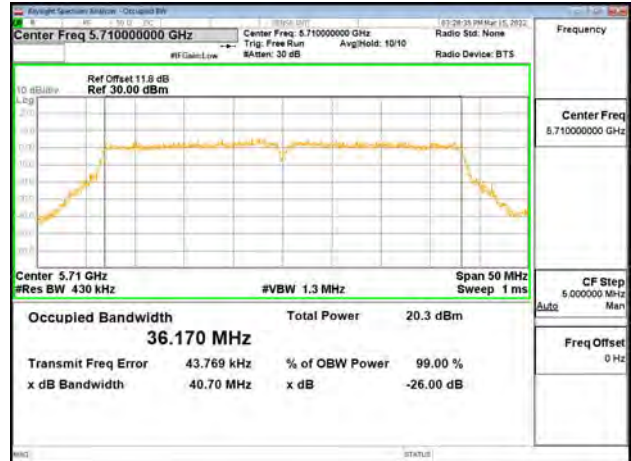
802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



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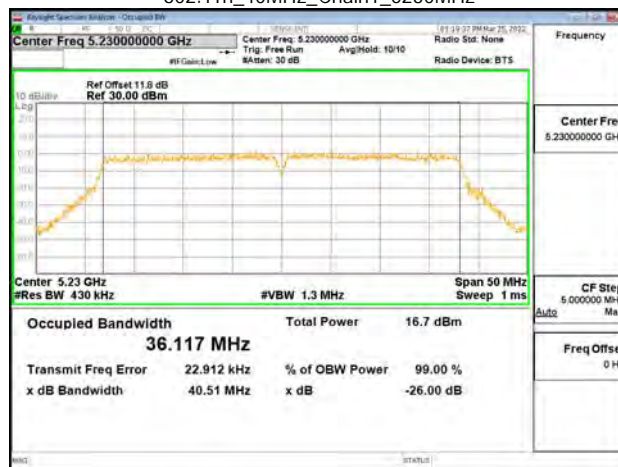
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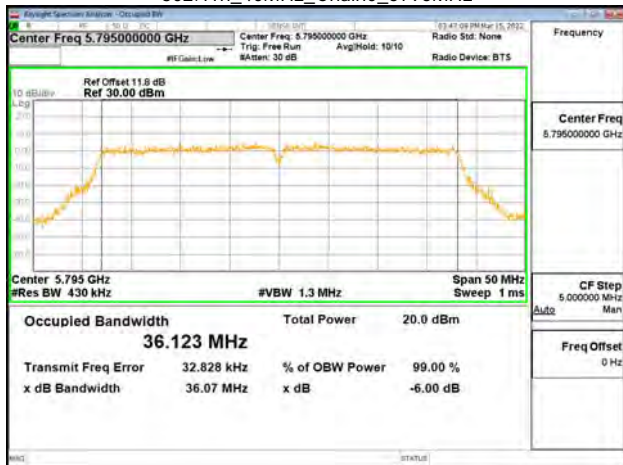
802.11n_40MHz_Chain0_5755MHz



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

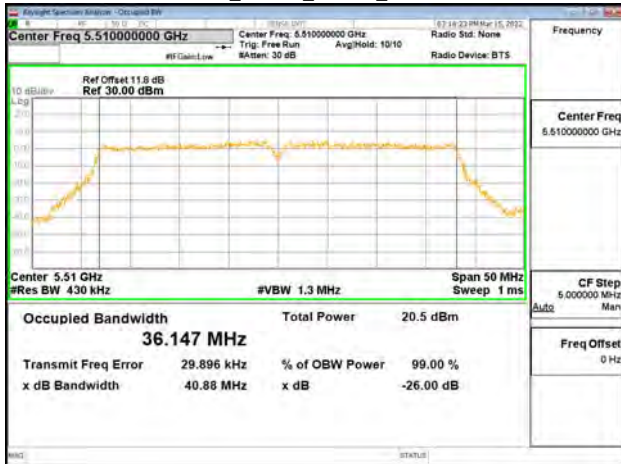


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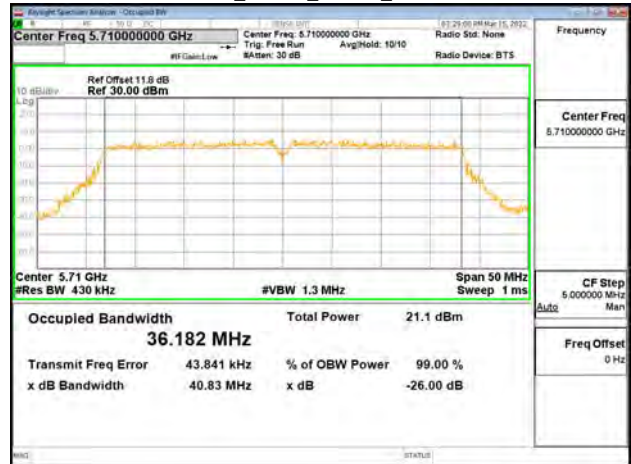
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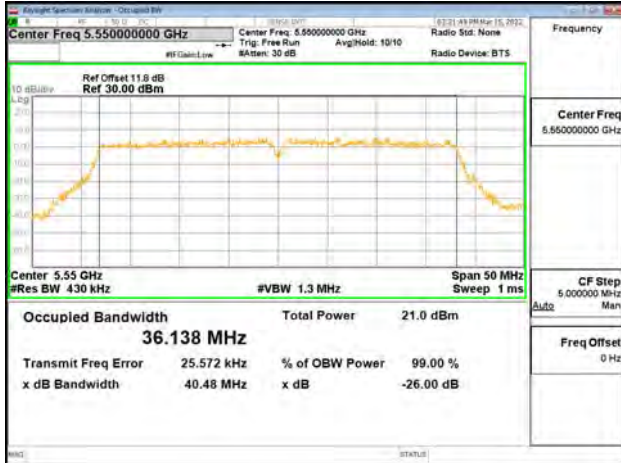
802.11n_40MHz_Chain1_5510MHz



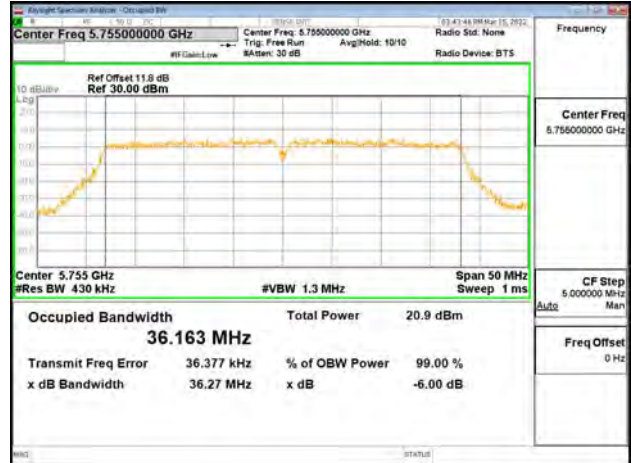
802.11n_40MHz_Chain1_5710MHz



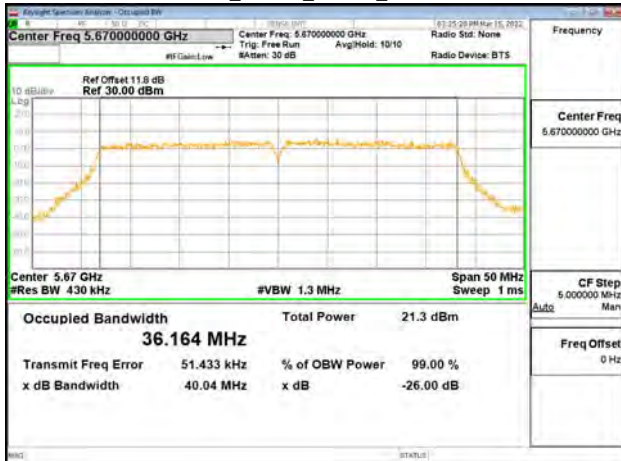
802.11n_40MHz_Chain1_5550MHz



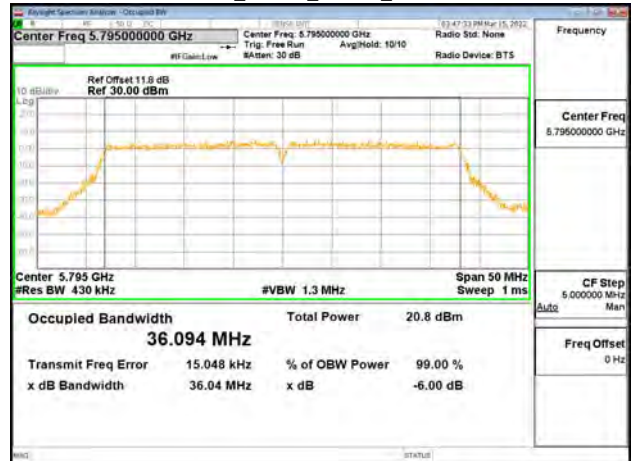
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz



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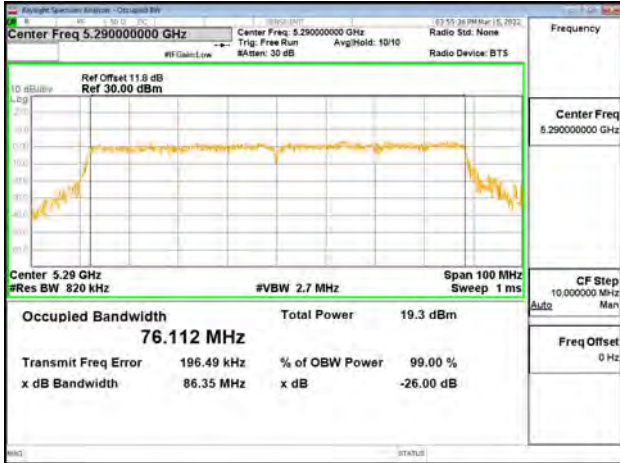
802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



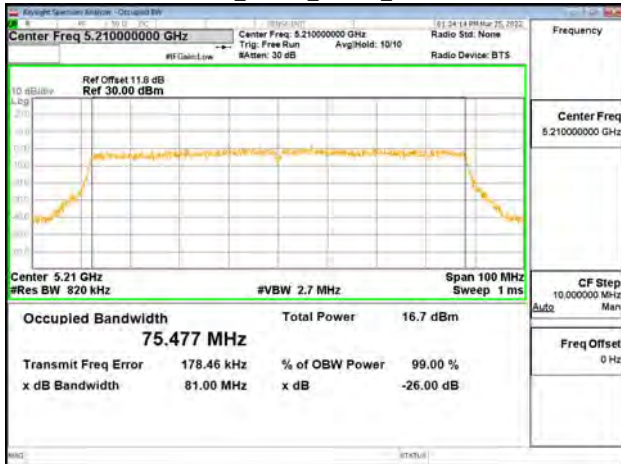
802.11ac_80MHz_Chain0_5775MHz



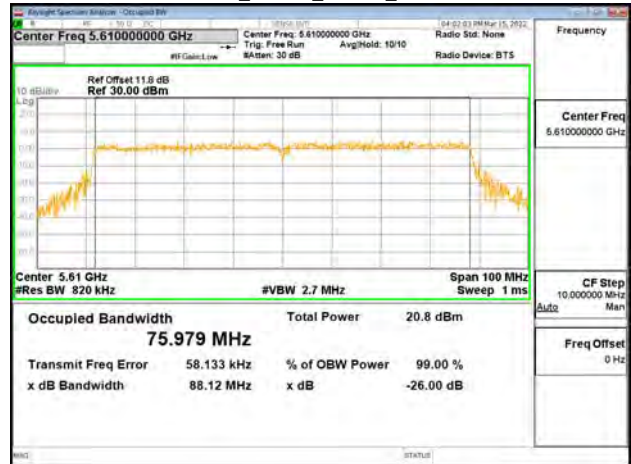
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802.11ac_80MHz_Chain1_5210MHz



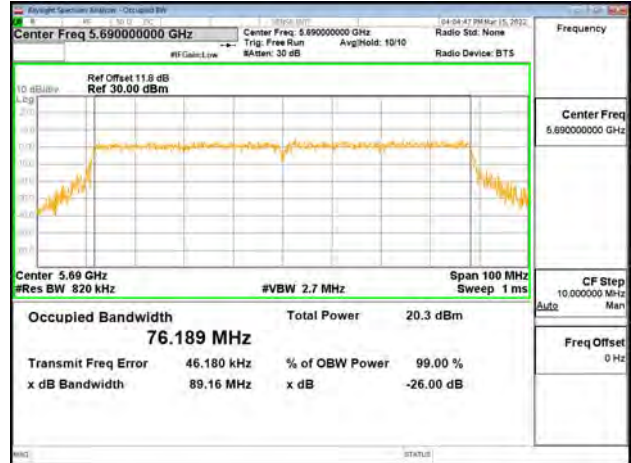
802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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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.

9.1.2 Output Power

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

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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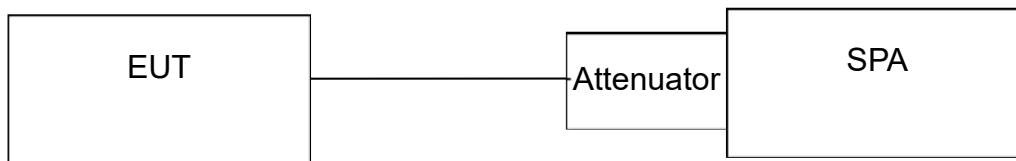
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FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	200 mW or $10 + 10 \log_{10} B$ dBm	N/A	N/A
5250~5350		OEM devices installed in vehicles	30 mW or $1.76 + 10 \log_{10} B$	N/A	At least 3dB below 30mW EIRP
	V	Other device	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
		Outdoor Fixed with EIRP>200mW	$-13 \text{ dBW/MHz for } 0^\circ \leq \theta < 8^\circ$ $-13 - 0.716 (\theta - 8) \text{ dBW/MHz for } 8^\circ \leq \theta < 40^\circ$ $-35.9 - 1.22 (\theta - 40) \text{ dBW/MHz for } 40^\circ \leq \theta \leq 45^\circ$ $-42 \text{ dBW/MHz for } \theta > 45^\circ$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	V	All	1.0 W or $17 + 10 \log_{10} B$ dBm	250 mW or $11 + 10 \log_{10} B$	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	V	All	N/A	1 W	N/A

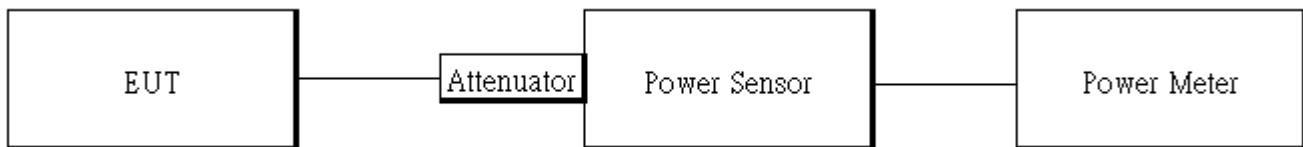
- For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- For the $10 \log B$, B is the 99% emission bandwidth.

9.2 Test Setup

9.2.1 Duty Cycle



9.2.2 Output Power



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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/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, cable loss is specified below.

Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = / 20 \log G_k$ 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

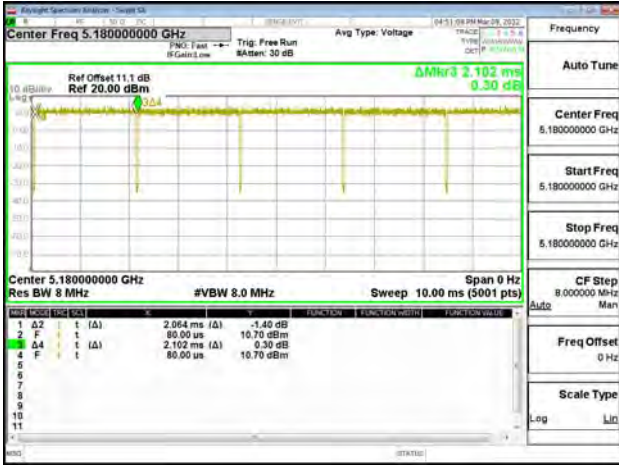
Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	98.19	0.08	0.48	0.01
802.11n_20	98.06	0.09	0.52	0.01
802.11ac_20	98.17	0.08	0.52	0.01
802.11n_40	96.34	0.16	1.05	2.00
802.11ac_40	96.36	0.16	1.05	2.00
802.11ac_80	92.80	0.32	2.16	3.00

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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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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	18	16.36	43.245	23.98	PASS
44	5220	6	18	16.41	43.745	23.98	PASS
48	5240	6	18	16.44	44.049	23.98	PASS
52	5260	6	18	16.40	43.645	23.98	PASS
60	5300	6	17.5	16.42	43.846	23.98	PASS
64	5320	6	17.5	16.37	43.344	23.98	PASS
100	5500	6	18	16.42	43.846	23.98	PASS
116	5580	6	17.5	16.39	43.544	23.98	PASS
140	5700	6	17.5	16.38	43.444	23.98	PASS
144	5720(U-NII 2C)	6	17.5	14.85	30.52	23.29	PASS
144	5720 (U-NII 3)	6	17.5	10.98	12.52	30	PASS
149	5745	6	17.5	16.40	43.645	30	PASS
157	5785	6	17.5	16.43	43.947	30	PASS
165	5825	6	18	16.48	44.456	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	18	16.35	43.145	23.98	PASS
44	5220	6	18	16.30	42.651	23.98	PASS
48	5240	6	18	16.37	43.344	23.98	PASS
52	5260	6	18	16.34	43.046	23.98	PASS
60	5300	6	18	16.40	43.645	23.98	PASS
64	5320	6	17.5	16.35	43.145	23.98	PASS
100	5500	6	17.5	16.29	42.553	23.98	PASS
116	5580	6	18	16.37	43.344	23.98	PASS
140	5700	6	17.5	16.27	42.358	23.98	PASS
144	5720(U-NII 2C)	6	17.5	14.89	30.82	23.08	PASS
144	5720 (U-NII 3)	6	17.5	10.70	11.74	30	PASS
149	5745	6	17.5	16.39	43.544	30	PASS
157	5785	6	17.5	16.38	43.444	30	PASS
165	5825	6	17.5	16.36	43.245	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	HT0	13	12.47	17.640	23.98	PASS
44	5220	HT0	13	12.43	17.479	23.98	PASS
48	5240	HT0	13	12.44	17.519	23.98	PASS
52	5260	HT0	17.5	16.45	44.107	23.98	PASS
60	5300	HT0	17.5	16.48	44.413	23.98	PASS
64	5320	HT0	17	16.40	43.602	23.98	PASS
100	5500	HT0	17.5	16.42	43.803	23.98	PASS
116	5580	HT0	17.5	16.47	44.311	23.98	PASS
140	5700	HT0	17	16.43	43.904	23.98	PASS
144	5720(U-NII 2C)	HT0	17	14.98	31.46	23.98	PASS
144	5720 (U-NII 3)	HT0	17	10.95	12.44	30	PASS
149	5745	HT0	17	16.39	43.502	30	PASS
157	5785	HT0	17	16.46	44.209	30	PASS
165	5825	HT0	17.5	16.46	44.209	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	HT0	13	12.41	17.398	23.98	PASS
44	5220	HT0	13	12.40	17.358	23.98	PASS
48	5240	HT0	13	12.38	17.279	23.98	PASS
52	5260	HT0	17.5	16.38	43.402	23.98	PASS
60	5300	HT0	17.5	16.39	43.502	23.98	PASS
64	5320	HT0	17.5	16.37	43.302	23.98	PASS
100	5500	HT0	17.5	16.40	43.602	23.98	PASS
116	5580	HT0	17.5	16.44	44.006	23.98	PASS
140	5700	HT0	17.5	16.41	43.703	23.98	PASS
144	5720(U-NII 2C)	HT0	17	15.00	31.62	23.98	PASS
144	5720 (U-NII 3)	HT0	17	10.71	11.78	30	PASS
149	5745	HT0	17	16.38	43.402	30	PASS
157	5785	HT0	17	16.38	43.402	30	PASS
165	5825	HT0	17.5	16.41	43.703	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
36	5180	HT8	13	12.35	12.24	15.39	34.594	23.98	PASS
44	5220	HT8	13	12.31	12.28	15.39	34.594	23.98	PASS
48	5240	HT8	13	12.32	12.27	15.39	34.594	23.98	PASS
52	5260	HT8	18	17.32	17.25	20.38	109.144	23.98	PASS
60	5300	HT8	18	17.4	17.36	20.48	111.686	23.98	PASS
64	5320	HT8	18	17.41	17.37	20.49	111.944	23.98	PASS
100	5500	HT8	18	17.39	17.36	20.47	111.429	23.98	PASS
116	5580	HT8	18	17.41	17.35	20.48	111.686	23.98	PASS
140	5700	HT8	17	17.01	16.92	20.06	101.391	23.98	PASS
144	5720(U-NII 2C)	HT8	17.5	15.93	15.94	19.03	80.058	23.02	PASS
144	5720 (U-NII 3)	HT8	17.5	11.90	11.65	14.88	30.743	29.76	PASS
149	5745	HT8	17.5	17.34	17.31	20.42	110.154	29.76	PASS
157	5785	HT8	17.5	17.31	17.29	20.40	109.648	29.76	PASS
165	5825	HT8	18	17.39	17.35	20.47	111.429	29.76	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	HT0	13	12.51	17.832	23.98	PASS
46	5230	HT0	13	12.48	17.709	23.98	PASS
54	5270	HT0	17	16.44	44.075	23.98	PASS
62	5310	HT0	17	16.49	44.585	23.98	PASS
102	5510	HT0	17	16.45	44.177	23.98	PASS
110	5550	HT0	17	16.48	44.483	23.98	PASS
134	5670	HT0	16.5	16.44	44.075	23.98	PASS
142	5710(U-NII 2C)	HT0	16.5	15.85	38.50	23.98	PASS
142	5710 (U-NII 3)	HT0	16.5	7.70	5.88	30	PASS
151	5755	HT0	16.5	16.39	43.571	30	PASS
159	5795	HT0	16.5	16.41	43.772	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	HT0	13	12.44	17.547	23.98	PASS
46	5230	HT0	13	12.42	17.466	23.98	PASS
54	5270	HT0	17.5	16.47	44.381	23.98	PASS
62	5310	HT0	17	16.48	44.483	23.98	PASS
102	5510	HT0	17	16.41	43.772	23.98	PASS
110	5550	HT0	17	16.44	44.075	23.98	PASS
134	5670	HT0	17	16.43	43.974	23.98	PASS
142	5710(U-NII 2C)	HT0	16.5	15.79	37.96	23.98	PASS
142	5710 (U-NII 3)	HT0	16.5	7.64	5.81	30	PASS
151	5755	HT0	16.5	16.36	43.271	30	PASS
159	5795	HT0	16.5	16.39	43.571	30	PASS

802.11n_HT40 MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				Ch0	Ch1				
38	5190	HT8	13	12.31	12.25	15.45	35.075	23.98	PASS
46	5230	HT8	13	12.31	12.24	15.45	35.075	23.98	PASS
54	5270	HT8	17	16.33	16.23	19.45	88.105	23.98	PASS
62	5310	HT8	16.5	16.26	16.21	19.41	87.297	23.98	PASS
102	5510	HT8	16.5	16.23	16.21	19.39	86.896	23.98	PASS
110	5550	HT8	17	16.32	16.25	19.46	88.308	23.98	PASS
134	5670	HT8	16.5	16.36	16.25	19.48	88.716	23.98	PASS
142	5710(U-NII 2C)	HT8	16.5	15.76	15.60	18.85	76.791	23.98	PASS
142	5710 (U-NII 3)	HT8	16.5	7.60	7.45	10.70	11.741	29.76	PASS
151	5755	HT8	16.5	16.32	16.28	19.47	88.512	29.76	PASS
159	5795	HT8	16.5	16.29	16.25	19.44	87.902	29.76	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	0	12.42	17.459	23.98	PASS
44	5220	MCS0	13	12.40	17.379	23.98	PASS
48	5240	MCS0	13	12.39	17.339	23.98	PASS
52	5260	MCS0	18.5	17.37	54.578	23.98	PASS
60	5300	MCS0	18	17.34	54.203	23.98	PASS
64	5320	MCS0	18	17.35	54.328	23.98	PASS
100	5500	MCS0	18.5	17.37	54.578	23.98	PASS
116	5580	MCS0	18.5	17.41	55.083	23.98	PASS
140	5700	MCS0	18	17.39	54.830	23.98	PASS
144	5720(U-NII 2C)	MCS0	18	15.90	38.93	23.98	PASS
144	5720 (U-NII 3)	MCS0	18	11.88	15.40	30	PASS
149	5745	MCS0	18	17.36	54.453	30	PASS
157	5785	MCS0	18.5	17.37	54.578	30	PASS
165	5825	MCS0	18.5	17.35	54.328	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13	12.33	17.101	23.98	PASS
44	5220	MCS0	13	12.34	17.140	23.98	PASS
48	5240	MCS0	13	12.32	17.062	23.98	PASS
52	5260	MCS0	18.5	17.35	54.328	23.98	PASS
60	5300	MCS0	18.5	17.33	54.078	23.98	PASS
64	5320	MCS0	18	17.32	53.954	23.98	PASS
100	5500	MCS0	18.5	17.34	54.203	23.98	PASS
116	5580	MCS0	18.5	17.29	53.582	23.98	PASS
140	5700	MCS0	18.5	17.37	54.578	23.98	PASS
144	5720(U-NII 2C)	MCS0	18.5	15.95	39.31	23.98	PASS
144	5720 (U-NII 3)	MCS0	18.5	11.66	14.64	30	PASS
149	5745	MCS0	18	17.34	54.203	30	PASS
157	5785	MCS0	18	17.33	54.078	30	PASS
165	5825	MCS0	18.5	17.34	54.203	30	PASS

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802.11ac VHT20 MIMO

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	13	12.31	12.23	15.36	34.356	23.98	PASS
44	5220	MCS0	13	12.3	12.22	15.35	34.277	23.98	PASS
48	5240	MCS0	13	12.29	12.21	15.34	34.198	23.98	PASS
52	5260	MCS0	18.5	17.29	17.26	20.37	108.893	23.98	PASS
60	5300	MCS0	18	17.27	17.2	20.33	107.895	23.98	PASS
64	5320	MCS0	18	17.33	17.23	20.37	108.893	23.98	PASS
100	5500	MCS0	18	17.29	17.22	20.35	108.393	23.98	PASS
116	5580	MCS0	18	17.26	17.25	20.35	108.393	23.98	PASS
140	5700	MCS0	17	16.98	16.77	19.97	99.312	23.98	PASS
144	5720(U-NII 2C)	MCS0	18	15.84	15.86	18.94	78.326	23.02	PASS
144	5720 (U-NII 3)	MCS0	18	11.81	11.57	14.78	30.077	29.76	PASS
149	5745	MCS0	18	17.34	17.27	20.40	109.648	29.76	PASS
157	5785	MCS0	18	17.32	17.25	20.38	109.144	29.76	PASS
165	5825	MCS0	18.5	17.37	17.36	20.46	111.173	29.76	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	13	12.35	17.183	23.98	PASS
46	5230	MCS0	13	12.32	17.065	23.98	PASS
54	5270	MCS0	17.5	16.42	43.863	23.98	PASS
62	5310	MCS0	17	16.35	43.162	23.98	PASS
102	5510	MCS0	17.5	16.40	43.662	23.98	PASS
110	5550	MCS0	17.5	16.40	43.662	23.98	PASS
134	5670	MCS0	17	16.38	43.461	23.98	PASS
142	5710(U-NII 2C)	MCS0	17	15.75	37.61	23.98	PASS
142	5710 (U-NII 3)	MCS0	17	7.59	5.75	30	PASS
151	5755	MCS0	17	16.39	43.562	30	PASS
159	5795	MCS0	17	16.41	43.763	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	13	12.04	15.999	23.98	PASS
46	5230	MCS0	13	11.94	15.635	23.98	PASS
54	5270	MCS0	17.5	16.41	43.763	23.98	PASS
62	5310	MCS0	17	16.31	42.766	23.98	PASS
102	5510	MCS0	17	16.35	43.162	23.98	PASS
110	5550	MCS0	17.5	16.39	43.562	23.98	PASS
134	5670	MCS0	17	16.35	43.162	23.98	PASS
142	5710(U-NII 2C)	MCS0	17	15.74	37.52	23.98	PASS
142	5710 (U-NII 3)	MCS0	17	7.59	5.74	30	PASS
151	5755	MCS0	17	16.37	43.361	30	PASS
159	5795	MCS0	17	16.39	43.562	30	PASS

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802.11ac VHT40 MIMO

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	13	12.17	11.78	15.15	32.734	23.98	PASS
46	5230	MCS0	13	12.05	11.72	15.06	32.063	23.98	PASS
54	5270	MCS0	18	16.25	16.17	19.38	86.696	23.98	PASS
62	5310	MCS0	17.5	16.21	16.16	19.36	86.298	23.98	PASS
102	5510	MCS0	17.5	16.19	16.15	19.34	85.901	23.98	PASS
110	5550	MCS0	18	16.22	16.21	19.39	86.896	23.98	PASS
134	5670	MCS0	17.5	16.24	16.21	19.40	87.096	23.98	PASS
142	5710(U-NII 2C)	MCS0	17.5	15.59	15.56	18.75	74.945	23.98	PASS
142	5710 (U-NII 3)	MCS0	17.5	7.43	7.41	10.59	11.459	29.76	PASS
151	5755	MCS0	17.5	16.28	16.23	19.43	87.700	29.76	PASS
159	5795	MCS0	17.5	16.26	16.22	19.41	87.297	29.76	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	13	12.50	17.801	23.98	PASS
58	5290	MCS0	16	15.47	35.274	23.98	PASS
106	5530	MCS0	16.5	15.47	35.274	23.98	PASS
122	5610	MCS0	16	15.45	35.112	23.98	PASS
138	5690(U-NII 2C)	MCS0	16	14.94	31.21	23.98	PASS
138	5690 (U-NII 3)	MCS0	16	6.01	3.99	30	PASS
155	5775	MCS0	16	15.48	35.355	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	13	12.42	17.476	23.98	PASS
58	5290	MCS0	16	15.38	34.550	23.98	PASS
106	5530	MCS0	16	15.36	34.392	23.98	PASS
122	5610	MCS0	16	15.40	34.710	23.98	PASS
138	5690(U-NII 2C)	MCS0	16	14.82	30.31	23.98	PASS
138	5690 (U-NII 3)	MCS0	16	5.85	3.85	30	PASS
155	5775	MCS0	16	15.44	35.031	30	PASS

802.11ac VHT80 MIMO

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	13	12.12	12.03	15.41	34.754	23.98	PASS
58	5290	MCS0	16	15.14	15.05	18.43	69.663	23.98	PASS
106	5530	MCS0	16	15.12	15.08	18.43	69.663	23.98	PASS
122	5610	MCS0	16	15.19	15.01	18.44	69.823	23.98	PASS
138	5690(U-NII 2C)	MCS0	16	14.69	14.57	17.96	62.521	23.98	PASS
138	5690 (U-NII 3)	MCS0	16	5.75	5.61	9.01	7.960	29.76	PASS
155	5775	MCS0	16	15.17	15.1	18.47	70.307	29.76	PASS

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9.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.40	43.645	23.18	PASS
60	5300	16.42	43.846	23.18	PASS
64	5320	16.37	43.344	23.18	PASS
100	5500	16.42	43.846	23.18	PASS
116	5580	16.39	43.544	23.18	PASS
140	5700	16.38	43.444	23.18	PASS
144	5720(U-NII 2C)	14.85	30.525	22.22	PASS
144	5720 (U-NII 3)	10.98	12.521	30	PASS
149	5745	16.40	43.645	30	PASS
157	5785	16.43	43.947	30	PASS
165	5825	16.48	44.456	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.34	43.046	23.18	PASS
60	5300	16.40	43.645	23.18	PASS
64	5320	16.35	43.145	23.19	PASS
100	5500	16.29	42.553	23.18	PASS
116	5580	16.37	43.344	23.18	PASS
140	5700	16.27	42.358	23.18	PASS
144	5720(U-NII 2C)	14.89	30.818	22.23	PASS
144	5720 (U-NII 3)	10.70	11.736	30	PASS
149	5745	16.39	43.544	30	PASS
157	5785	16.38	43.444	30	PASS
165	5825	16.36	43.245	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.45	44.107	23.48	PASS
60	5300	16.48	44.413	23.48	PASS
64	5320	16.40	43.602	23.48	PASS
100	5500	16.42	43.803	23.48	PASS
116	5580	16.47	44.311	23.48	PASS
140	5700	16.43	43.904	23.48	PASS
144	5720(U-NII 2C)	14.98	31.459	22.41	PASS
144	5720 (U-NII 3)	10.95	12.445	30	PASS
149	5745	16.39	43.502	30	PASS
157	5785	16.46	44.209	30	PASS
165	5825	16.46	44.209	30	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	16.38	43.402	23.48	PASS
60	5300	16.39	43.502	23.48	PASS
64	5320	16.37	43.302	23.48	PASS
100	5500	16.40	43.602	23.49	PASS
116	5580	16.44	44.006	23.5	PASS
140	5700	16.41	43.703	23.49	PASS
144	5720(U-NII 2C)	15.00	31.624	22.42	PASS
144	5720 (U-NII 3)	10.71	11.778	30	PASS
149	5745	16.38	43.402	30	PASS
157	5785	16.38	43.402	30	PASS
165	5825	16.41	43.703	30	PASS

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802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	17.32	17.25	20.38	109.144	23.48	PASS
60	5300	17.4	17.36	20.48	111.686	23.48	PASS
64	5320	17.41	17.37	20.49	111.944	23.48	PASS
100	5500	17.39	17.36	20.47	111.429	23.48	PASS
116	5580	17.41	17.35	20.48	111.686	23.48	PASS
140	5700	17.01	16.92	20.06	101.391	23.48	PASS
144	5720(U-NII 2C)	15.932	15.935	19.03	80.058	22.41	PASS
144	5720 (U-NII 3)	11.905	11.646	14.88	30.743	29.76	PASS
149	5745	17.34	17.31	20.42	110.154	29.76	PASS
157	5785	17.31	17.29	20.40	109.648	29.76	PASS
165	5825	17.39	17.35	20.47	111.429	29.76	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.44	44.075	23.98	PASS
62	5310	16.49	44.585	23.98	PASS
102	5510	16.45	44.177	23.98	PASS
110	5550	16.48	44.483	23.98	PASS
134	5670	16.44	44.075	23.98	PASS
142	5710(U-NII 2C)	15.85	38.499	23.98	PASS
142	5710 (U-NII 3)	7.70	5.882	30	PASS
151	5755	16.39	43.571	30	PASS
159	5795	16.41	43.772	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.47	44.381	23.98	PASS
62	5310	16.48	44.483	23.98	PASS
102	5510	16.41	43.772	23.98	PASS
110	5550	16.44	44.075	23.98	PASS
134	5670	16.43	43.974	23.98	PASS
142	5710(U-NII 2C)	15.79	37.963	23.98	PASS
142	5710 (U-NII 3)	7.64	5.809	30	PASS
151	5755	16.36	43.271	30	PASS
159	5795	16.39	43.571	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	16.33	16.23	19.45	88.105	23.98	PASS
62	5310	16.26	16.21	19.41	87.297	23.98	PASS
102	5510	16.23	16.21	19.39	86.896	23.98	PASS
110	5550	16.32	16.25	19.46	88.308	23.98	PASS
134	5670	16.36	16.25	19.48	88.716	23.98	PASS
142	5710(U-NII 2C)	15.763	15.602	18.85	76.791	23.98	PASS
142	5710 (U-NII 3)	7.6032	7.4491	10.70	11.741	29.76	PASS
151	5755	16.32	16.28	19.47	88.512	29.76	PASS
159	5795	16.29	16.25	19.44	87.902	29.76	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.37	54.578	23.48	PASS
60	5300	17.34	54.203	23.48	PASS
64	5320	17.35	54.328	23.48	PASS
100	5500	17.37	54.578	23.48	PASS
116	5580	17.41	55.083	23.48	PASS
140	5700	17.39	54.830	23.48	PASS
144	5720(U-NII 2C)	15.90	38.928	22.41	PASS
144	5720 (U-NII 3)	11.88	15.400	30	PASS
149	5745	17.36	54.453	30	PASS
157	5785	17.37	54.578	30	PASS
165	5825	17.35	54.328	30	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	17.35	54.328	23.48	PASS
60	5300	17.33	54.078	23.48	PASS
64	5320	17.32	53.954	23.48	PASS
100	5500	17.34	54.203	23.49	PASS
116	5580	17.29	53.582	23.5	PASS
140	5700	17.37	54.578	23.49	PASS
144	5720(U-NII 2C)	15.95	39.312	22.42	PASS
144	5720 (U-NII 3)	11.66	14.642	30	PASS
149	5745	17.34	54.203	30	PASS
157	5785	17.33	54.078	30	PASS
165	5825	17.34	54.203	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
52	5260	17.29	17.26	20.37	108.893	23.48	PASS
60	5300	17.27	17.2	20.33	107.895	23.48	PASS
64	5320	17.33	17.23	20.37	108.893	23.48	PASS
100	5500	17.29	17.22	20.35	108.393	23.48	PASS
116	5580	17.26	17.25	20.35	108.393	23.48	PASS
140	5700	16.98	16.77	19.97	99.312	23.48	PASS
144	5720(U-NII 2C)	15.842	15.855	18.94	78.326	22.41	PASS
144	5720 (U-NII 3)	11.815	11.566	14.78	30.077	29.76	PASS
149	5745	17.34	17.27	20.40	109.648	29.76	PASS
157	5785	17.32	17.25	20.38	109.144	29.76	PASS
165	5825	17.37	17.36	20.46	111.173	29.76	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.42	43.863	23.98	PASS
62	5310	16.35	43.162	23.98	PASS
102	5510	16.40	43.662	23.98	PASS
110	5550	16.40	43.662	23.98	PASS
134	5670	16.38	43.461	23.98	PASS
142	5710(U-NII 2C)	15.75	37.615	23.98	PASS
142	5710 (U-NII 3)	7.59	5.747	30	PASS
151	5755	16.39	43.562	30	PASS
159	5795	16.41	43.763	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	16.41	43.763	23.98	PASS
62	5310	16.31	42.766	23.98	PASS
102	5510	16.35	43.162	23.98	PASS
110	5550	16.39	43.562	23.98	PASS
134	5670	16.35	43.162	23.98	PASS
142	5710(U-NII 2C)	15.74	37.520	23.98	PASS
142	5710 (U-NII 3)	7.59	5.741	30	PASS
151	5755	16.37	43.361	30	PASS
159	5795	16.39	43.562	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
54	5270	16.25	16.17	19.38	86.696	23.98	PASS
62	5310	16.21	16.16	19.36	86.298	23.98	PASS
102	5510	16.19	16.15	19.34	85.901	23.98	PASS
110	5550	16.22	16.21	19.39	86.896	23.98	PASS
134	5670	16.24	16.21	19.40	87.096	23.98	PASS
142	5710(U-NII 2C)	15.593	15.562	18.75	74.945	23.98	PASS
142	5710 (U-NII 3)	7.4332	7.4091	10.59	11.459	29.76	PASS
151	5755	16.28	16.23	19.43	87.700	29.76	PASS
159	5795	16.26	16.22	19.41	87.297	29.76	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	15.47	35.274	23.98	PASS
106	5530	15.47	35.274	23.98	PASS
122	5610	15.45	35.112	23.98	PASS
138	5690(U-NII 2C)	14.94	31.207	23.98	PASS
138	5690 (U-NII 3)	6.01	3.986	30	PASS
155	5775	15.48	35.355	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	15.38	34.550	23.98	PASS
106	5530	15.36	34.392	23.98	PASS
122	5610	15.40	34.710	23.98	PASS
138	5710(U-NII 2C)	14.82	30.308	23.98	PASS
138	5690 (U-NII 3)	5.85	3.846	30	PASS
155	5775	15.44	35.031	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		Ch0	Ch1				
58	5290	15.14	15.05	18.43	69.663	23.98	PASS
106	5530	15.12	15.08	18.43	69.663	23.98	PASS
122	5610	15.19	15.01	18.44	69.823	23.98	PASS
138	5710(U-NII 2C)	14.688	14.571	17.96	62.521	23.98	PASS
138	5690 (U-NII 3)	5.7508	5.6061	9.01	7.960	29.76	PASS
155	5775	15.17	15.1	18.47	70.307	29.76	PASS

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802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.36	2.77	19.13	81.846	22.19	PASS
44	5220	16.41	2.77	19.18	82.794	22.18	PASS
48	5240	16.44	2.77	19.21	83.368	22.19	PASS
52	5260	16.40	2.45	18.85	76.736	29.18	PASS
60	5300	16.42	2.45	18.87	77.090	29.18	PASS
64	5320	16.37	2.45	18.82	76.208	29.18	PASS
100	5500	16.42	2.81	19.23	83.753	29.18	PASS
116	5580	16.39	2.81	19.20	83.176	29.18	PASS
140	5700	16.38	2.81	19.19	82.985	29.18	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.35	2.450	18.80	75.858	23.01	PASS
44	5220	16.30	2.450	18.75	74.989	23.01	PASS
48	5240	16.37	2.450	18.82	76.208	23.01	PASS
52	5260	16.34	1.920	18.26	66.988	30	PASS
60	5300	16.40	1.920	18.32	67.920	30	PASS
64	5320	16.35	1.920	18.27	67.143	30	PASS
100	5500	16.29	2.860	19.15	82.224	30	PASS
116	5580	16.37	2.860	19.23	83.753	30	PASS
140	5700	16.27	2.860	19.13	81.846	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.47	2.77	15.24	33.420	22.48	PASS
44	5220	12.43	2.77	15.20	33.113	22.48	PASS
48	5240	12.44	2.77	15.21	33.189	22.48	PASS
52	5260	16.45	2.45	18.90	77.625	29.48	PASS
60	5300	16.48	2.45	18.93	78.163	29.48	PASS
64	5320	16.40	2.45	18.85	76.736	29.48	PASS
100	5500	16.42	2.81	19.23	83.753	29.48	PASS
116	5580	16.47	2.81	19.28	84.723	29.48	PASS
140	5700	16.43	2.81	19.24	83.946	29.48	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.41	2.450	14.86	30.620	23.01	PASS
44	5220	12.40	2.450	14.85	30.549	23.01	PASS
48	5240	12.38	2.450	14.83	30.409	23.01	PASS
52	5260	16.38	1.920	18.30	67.608	30	PASS
60	5300	16.39	1.920	18.31	67.764	30	PASS
64	5320	16.37	1.920	18.29	67.453	30	PASS
100	5500	16.40	2.860	19.26	84.333	30	PASS
116	5580	16.44	2.860	19.30	85.114	30	PASS
140	5700	16.41	2.860	19.27	84.528	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.39	5.62	21.01	126.183	22.48	PASS
44	5220	15.39	5.62	21.01	126.183	22.48	PASS
48	5240	15.39	5.62	21.01	126.183	22.48	PASS
52	5260	20.38	5.20	25.58	361.410	29.48	PASS
60	5300	20.48	5.20	25.68	369.828	29.48	PASS
64	5320	20.49	5.20	25.69	370.681	29.48	PASS
100	5500	20.47	5.85	26.32	428.549	29.48	PASS
116	5580	20.48	5.85	26.33	429.536	29.48	PASS
140	5700	20.06	5.85	25.91	389.942	29.48	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.51	2.77	15.28	33.729	23.01	PASS
46	5230	12.48	2.77	15.25	33.497	23.01	PASS
54	5270	16.44	2.45	18.89	77.446	30	PASS
62	5310	16.49	2.45	18.94	78.343	30	PASS
102	5510	16.45	2.81	19.26	84.333	30	PASS
110	5550	16.48	2.81	19.29	84.918	30	PASS
134	5670	16.44	2.81	19.25	84.140	30	PASS

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802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.44	2.450	14.89	30.832	23.01	PASS
46	5230	12.42	2.450	14.87	30.690	23.01	PASS
54	5270	16.47	1.920	18.39	69.024	30	PASS
62	5310	16.48	1.920	18.40	69.183	30	PASS
102	5510	16.41	2.860	19.27	84.528	30	PASS
110	5550	16.44	2.860	19.30	85.114	30	PASS
134	5670	16.43	2.860	19.29	84.918	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.45	5.62	21.07	127.938	23.01	PASS
46	5230	15.45	5.62	21.07	127.938	23.01	PASS
54	5270	19.45	5.20	24.65	291.743	30	PASS
62	5310	19.41	5.20	24.61	289.068	30	PASS
102	5510	19.39	5.85	25.24	334.195	30	PASS
110	5550	19.46	5.85	25.31	339.625	30	PASS
134	5670	19.48	5.85	25.33	341.193	30	PASS

802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.42	2.77	15.19	33.037	22.48	PASS
44	5220	12.40	2.77	15.17	32.885	22.48	PASS
48	5240	12.39	2.77	15.16	32.810	22.48	PASS
52	5260	17.37	2.45	19.82	95.940	29.48	PASS
60	5300	17.34	2.45	19.79	95.280	29.48	PASS
64	5320	17.35	2.45	19.80	95.499	29.48	PASS
100	5500	17.37	2.81	20.18	104.232	29.48	PASS
116	5580	17.41	2.81	20.22	105.196	29.48	PASS
140	5700	17.39	2.81	20.20	104.713	29.48	PASS

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802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.33	2.450	14.78	30.061	23.01	PASS
44	5220	12.34	2.450	14.79	30.130	23.01	PASS
48	5240	12.32	2.450	14.77	29.992	23.01	PASS
52	5260	17.35	1.920	19.27	84.528	30	PASS
60	5300	17.33	1.920	19.25	84.140	30	PASS
64	5320	17.32	1.920	19.24	83.946	30	PASS
100	5500	17.34	2.860	20.20	104.713	30	PASS
116	5580	17.29	2.860	20.15	103.514	30	PASS
140	5700	17.37	2.860	20.23	105.439	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	15.36	5.62	20.98	125.314	22.48	PASS
44	5220	15.35	5.62	20.97	125.026	22.48	PASS
48	5240	15.34	5.62	20.96	124.738	22.48	PASS
52	5260	20.37	5.20	25.57	360.579	29.48	PASS
60	5300	20.33	5.20	25.53	357.273	29.48	PASS
64	5320	20.37	5.20	25.57	360.579	29.48	PASS
100	5500	20.35	5.85	26.20	416.869	29.48	PASS
116	5580	20.35	5.85	26.20	416.869	29.48	PASS
140	5700	19.97	5.85	25.82	381.944	29.48	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.35	2.77	15.12	32.509	23.01	PASS
46	5230	12.32	2.77	15.09	32.285	23.01	PASS
54	5270	16.42	2.45	18.87	77.090	30	PASS
62	5310	16.35	2.45	18.80	75.858	30	PASS
102	5510	16.40	2.81	19.21	83.368	30	PASS
110	5550	16.40	2.81	19.21	83.368	30	PASS
134	5670	16.38	2.81	19.19	82.985	30	PASS

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802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.04	2.450	14.49	28.119	23.01	PASS
46	5230	11.94	2.450	14.39	27.479	23.01	PASS
54	5270	16.41	1.920	18.33	68.077	30	PASS
62	5310	16.31	1.920	18.23	66.527	30	PASS
102	5510	16.35	2.860	19.21	83.368	30	PASS
110	5550	16.39	2.860	19.25	84.140	30	PASS
134	5670	16.35	2.860	19.21	83.368	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.15	5.62	20.77	119.399	23.01	PASS
46	5230	15.06	5.62	20.68	116.950	23.01	PASS
54	5270	19.38	5.20	24.58	287.078	30	PASS
62	5310	19.36	5.20	24.56	285.759	30	PASS
102	5510	19.34	5.85	25.19	330.370	30	PASS
110	5550	19.39	5.85	25.24	334.195	30	PASS
134	5670	19.40	5.85	25.25	334.965	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.50	2.77	15.27	33.651	23.01	PASS
58	5290	15.47	2.45	17.92	61.944	30	PASS
106	5530	15.47	2.81	18.28	67.298	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	12.42	2.450	14.87	30.690	23.01	PASS
58	5290	15.38	1.920	17.30	53.703	30	PASS
106	5530	15.36	2.860	18.22	66.374	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	15.41	5.62	21.03	126.765	23.01	PASS
58	5290	18.43	5.20	23.63	230.675	30	PASS
106	5530	18.43	5.85	24.28	267.917	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

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

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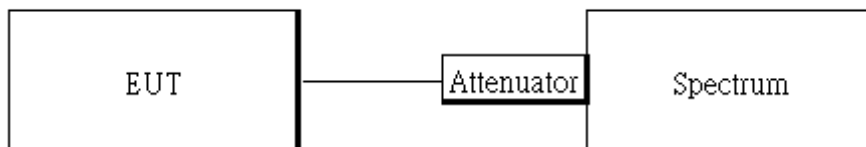
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FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250		OEM devices installed in vehicles	N/A	N/A
	V	Other device	10 dBm/MHz	N/A
5250~5350		OEM devices installed in vehicles	N/A	N/A
	V	Other device	N/A	11 dBm/MHz
5470-5600 and 5650-5725	V	All		11 dBm/MHz
5725~5850	V	All	N/A	30 dBm/500kHz

For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

10.2 Test Setup



10.3 Measurement Procedure

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- 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,

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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. 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.
8. MIMO mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

Note: 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

$g_{j,k} = 1/20 \cdot 10G_k$ 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)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	6.79	6.47	0.00	6.79		11.00 dBm/MHz	-4.21
5220	6.58	6.31	0.00	6.58		11.00 dBm/MHz	-4.42
5240	6.22	5.94	0.00	6.22		11.00 dBm/MHz	-4.78
5260	5.83	6.48	0.00	6.48		11.00 dBm/MHz	-4.52
5300	4.76	5.75	0.00	5.75		11.00 dBm/MHz	-5.26
5320	5.32	6.00	0.00	6.00		11.00 dBm/MHz	-5.00
5500	6.18	6.46	0.00	6.46		11.00 dBm/MHz	-4.54
5580	6.14	6.63	0.00	6.63		11.00 dBm/MHz	-4.37
5700	6.52	6.75	0.00	6.75		11.00 dBm/MHz	-4.25
5720 (U-NII 2C)	6.23	6.79	0.00	6.79		11.00 dBm/MHz	-4.21
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-0.27	0.37	0.00	2.22	2.59	30.00 dBm/500kHz	-27.41
5745	1.34	2.55	0.00	2.22	4.77	30.00 dBm/500kHz	-25.23
5785	0.82	2.08	0.00	2.22	4.30	30.00 dBm/500kHz	-25.70
5825	1.48	2.86	0.00	2.22	5.08	30.00 dBm/500kHz	-24.92
POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	0.96	1.50	0.00	4.25		11.00 dBm/MHz	-6.75
5220	1.29	0.78	0.00	4.05		11.00 dBm/MHz	-6.95
5240	1.05	0.57	0.00	3.82		11.00 dBm/MHz	-7.18
5260	5.35	6.03	0.00	8.71		11.00 dBm/MHz	-2.29
5300	5.86	5.83	0.00	8.85		11.00 dBm/MHz	-2.15
5320	5.81	6.20	0.00	9.02		11.00 dBm/MHz	-1.98
5500	6.08	6.20	0.00	9.15		11.00 dBm/MHz	-1.85
5580	6.24	6.99	0.00	9.64		11.00 dBm/MHz	-1.36
5700	6.12	6.73	0.00	9.44		11.00 dBm/MHz	-1.56
5720 (U-NII 2C)	6.20	6.57	0.00	9.40		11.00 dBm/MHz	-1.60
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maximum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-0.13	0.54	0.00	2.22	5.45	29.76 dBm/500kHz	-24.31
5745	1.40	1.59	0.00	2.22	6.72	29.76 dBm/500kHz	-23.04
5785	1.27	1.66	0.00	2.22	6.70	29.76 dBm/500kHz	-23.06
5825	1.34	1.72	0.00	2.22	6.76	29.76 dBm/500kHz	-23.00

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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)	Maxmum Corr'd PSD(dBm/MHz)	Limit	Margin (dB)	
5190	-0.77	-1.47	0.16	2.06	11.00 dBm/MHz	-8.94	
5230	-1.72	-1.86	0.16	1.38	11.00 dBm/MHz	-9.62	
5270	1.37	2.19	0.16	4.97	11.00 dBm/MHz	-6.03	
5310	1.31	1.33	0.16	4.49	11.00 dBm/MHz	-6.51	
5510	1.37	2.07	0.16	4.90	11.00 dBm/MHz	-6.10	
5550	2.20	2.18	0.16	5.36	11.00 dBm/MHz	-5.64	
5670	2.24	2.36	0.16	5.47	11.00 dBm/MHz	-5.53	
5710 (U-NII 2C)	1.61	2.51	0.16	5.25	11.00 dBm/MHz	-5.75	
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5710 (U-NII 3)	-4.85	-4.08	0.16	2.22	0.94	29.76 dBm/500kHz	-28.82
5755	-3.39	-2.96	0.16	2.22	2.22	29.76 dBm/500kHz	-27.54
5795	-3.47	-2.25	0.16	2.22	2.58	29.76 dBm/500kHz	-27.18

POWER DENSITY 802.11ac VHT80 MODE							
Frequency (MHz)	Ch0 meas PSD (dBm/MHz)	Ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Maxmum Corr'd PSD(dBm/MHz)	Limit	Margin (dB)	
5210	-5.68	-5.65	0.32	-2.33	11.00 dBm/MHz	-13.33	
5290	-3.33	-3.26	0.32	0.04	11.00 dBm/MHz	-10.96	
5530	-3.84	-3.47	0.32	-0.32	11.00 dBm/MHz	-11.32	
5610	-3.23	-2.34	0.32	0.57	11.00 dBm/MHz	-10.43	
5690 (U-NII 2C)	-3.12	-3.11	0.32	0.22	11.00 dBm/MHz	-10.78	
Frequency (MHz)	Ch0 meas PSD (dBm/300kHz)	Ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Maxmum Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5690 (U-NII 3)	-9.14	-7.73	0.32	2.22	-2.83	29.76 dBm/500kHz	-32.59
5775	-8.15	-7.36	0.32	2.22	-2.19	29.76 dBm/500kHz	-31.95

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EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	6.79	2.77	9.56	10	-0.44
5220	6.58	2.77	9.35	10	-0.65
5240	6.22	2.77	8.99	10	-1.01

EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	4.25	5.62	9.87	10	-0.13
5220	4.05	5.62	9.67	10	-0.33
5240	3.82	5.62	9.44	10	-0.56

EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5190	2.06	5.62	7.68	10	-2.32
5230	1.38	5.62	7.00	10	-3.00

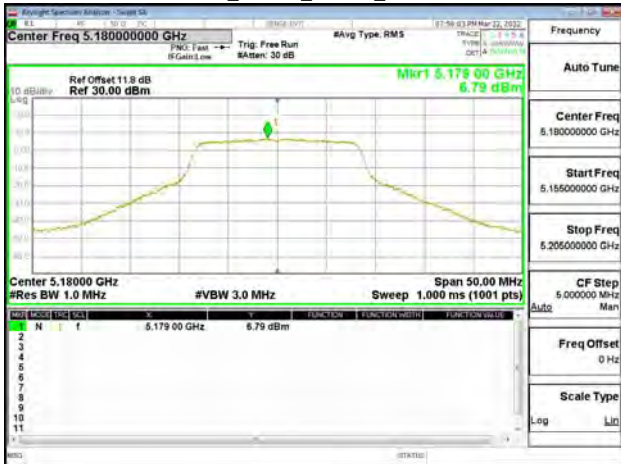
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5210	-2.33	5.62	3.29	10	-6.71

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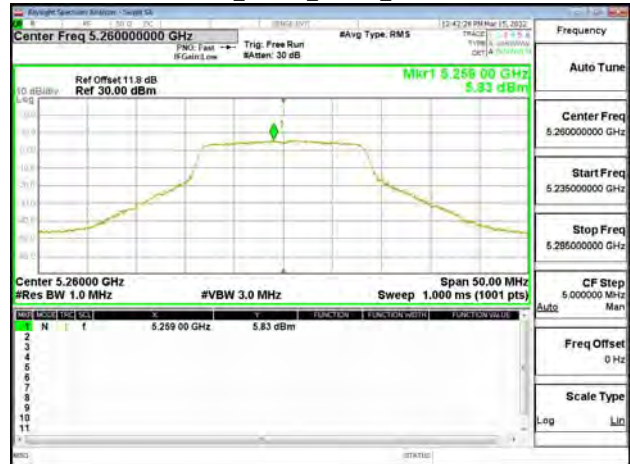
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802.11a_20MHz_Chain0_5180MHz



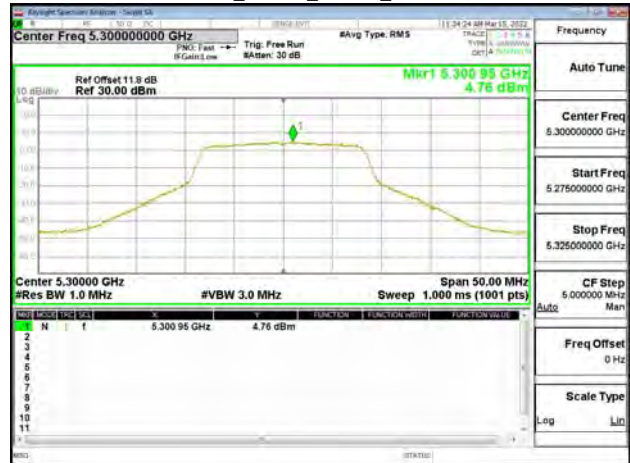
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



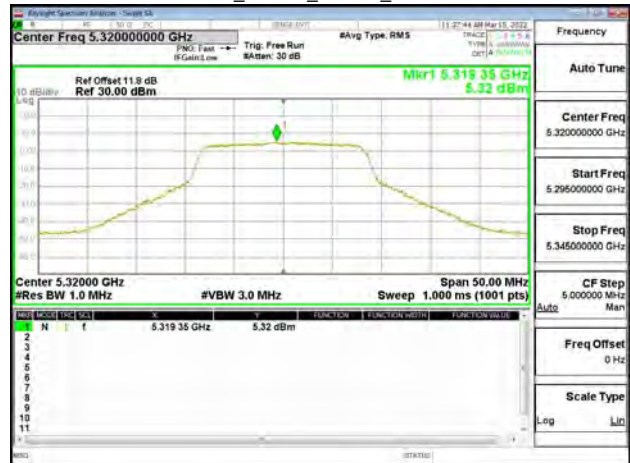
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz

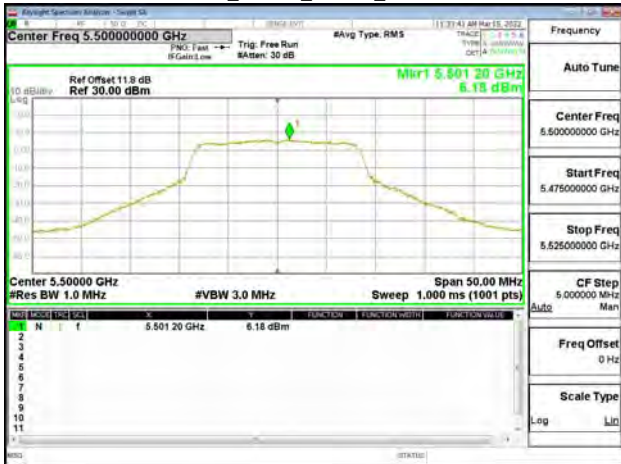


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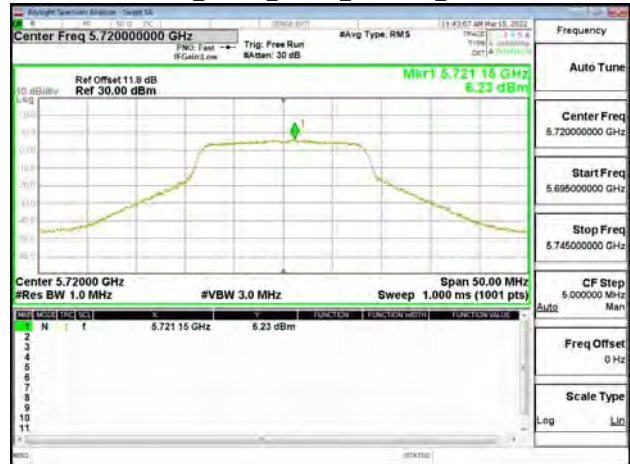
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802.11a_20MHz_Chain0_5500MHz



802.11a_20MHz_Chain0_5720MHz_UNII 2C



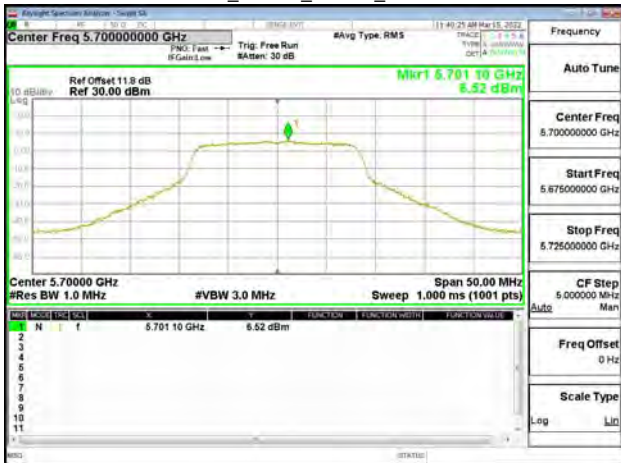
802.11a_20MHz_Chain0_5580MHz



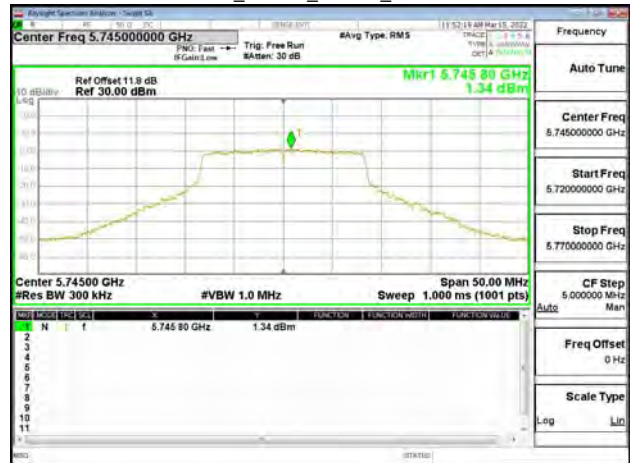
802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz



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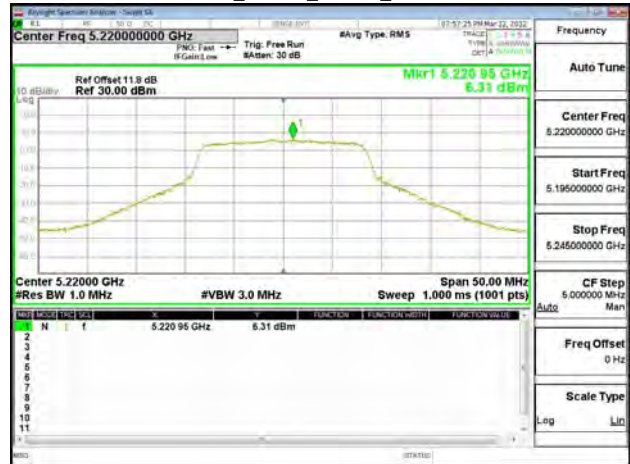
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802.11a_20MHz_Chain0_5785MHz



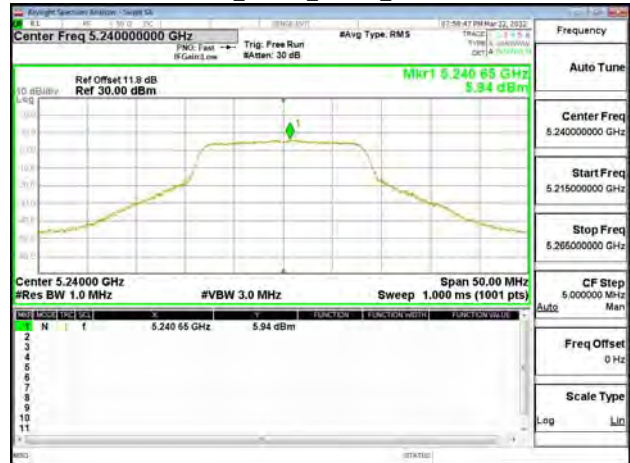
802.11a_20MHz_Chain1_5220MHz



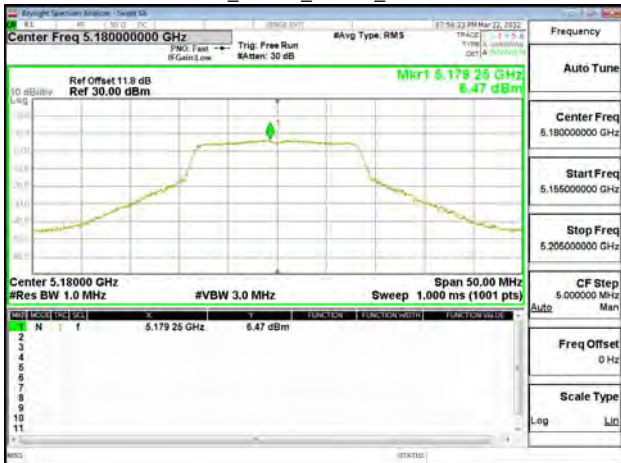
802.11a_20MHz_Chain0_5825MHz



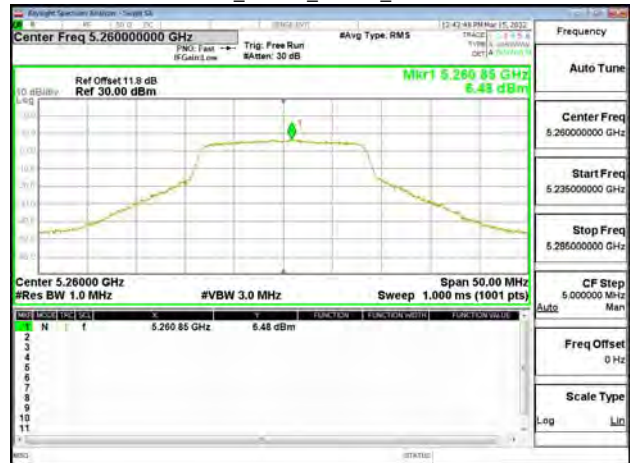
802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz

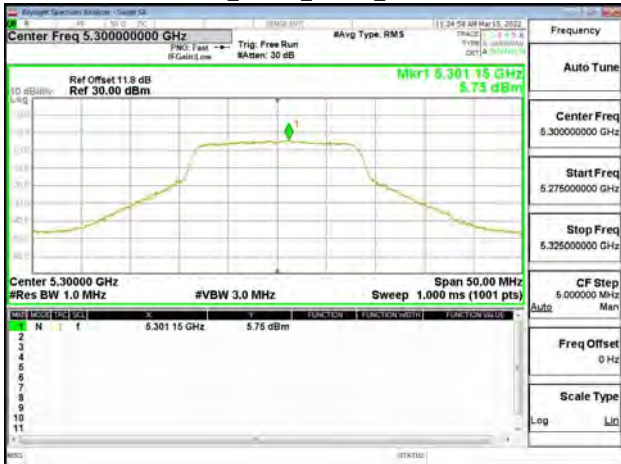


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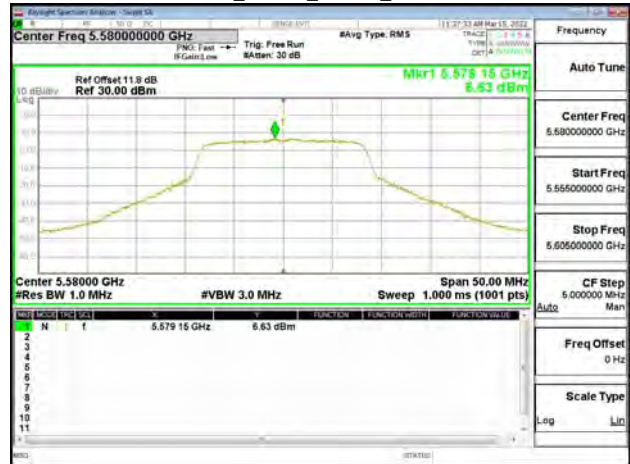
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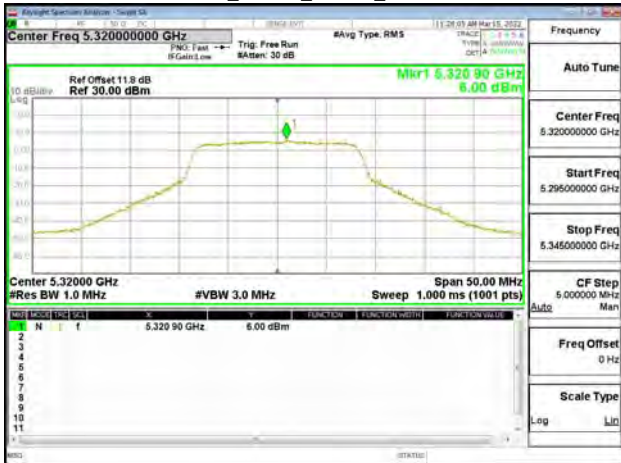
802.11a_20MHz_Chain1_5300MHz



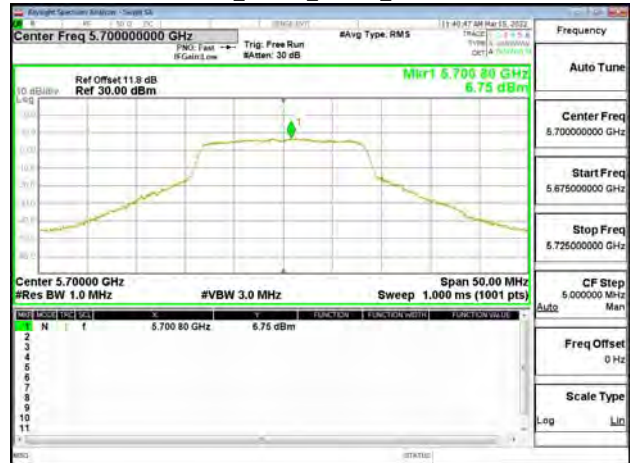
802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5320MHz



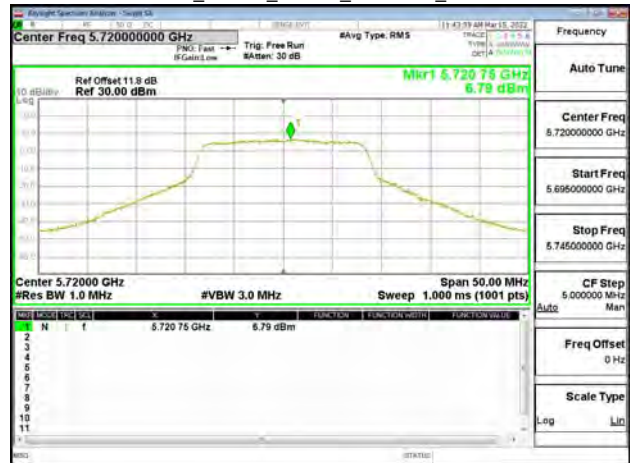
802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz_UNII 2C



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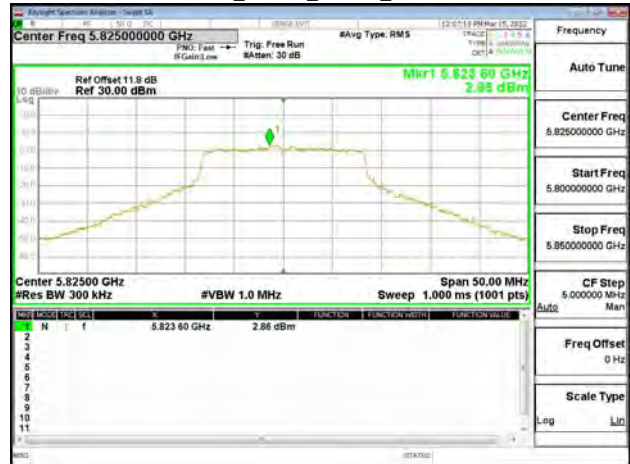
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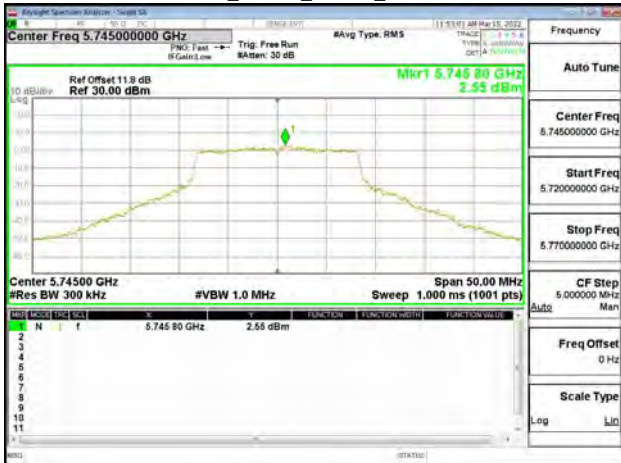
802.11a_20MHz_Chain1_5720MHz_UNI13



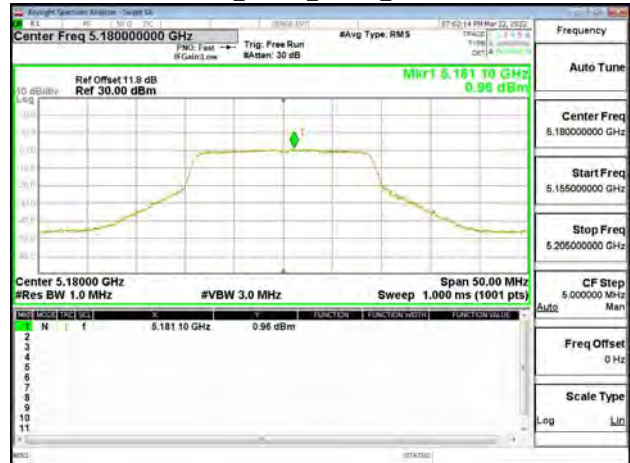
802.11a_20MHz_Chain1_5825MHz



802.11a_20MHz_Chain1_5745MHz



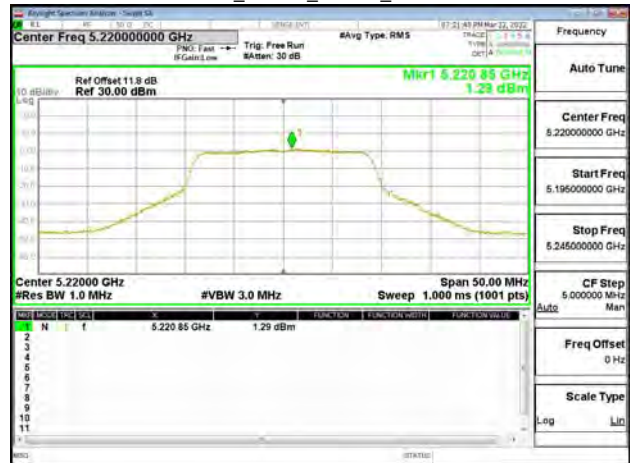
802.11n_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain0_5220MHz



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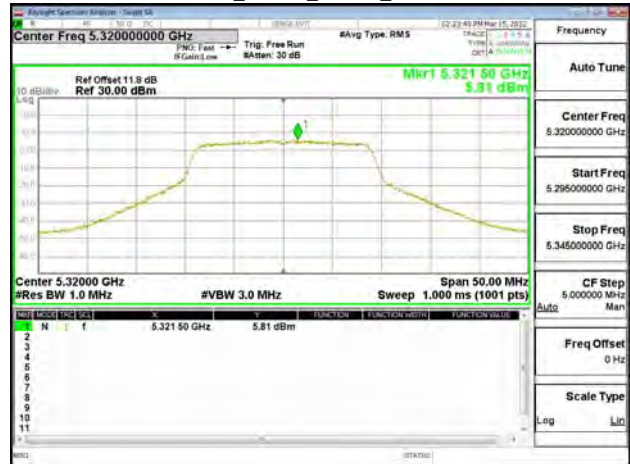
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802.11n_20MHz_Chain0_5240MHz



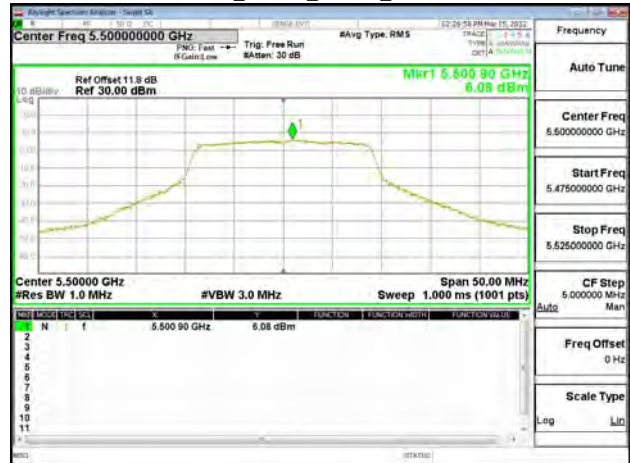
802.11n_20MHz_Chain0_5320MHz



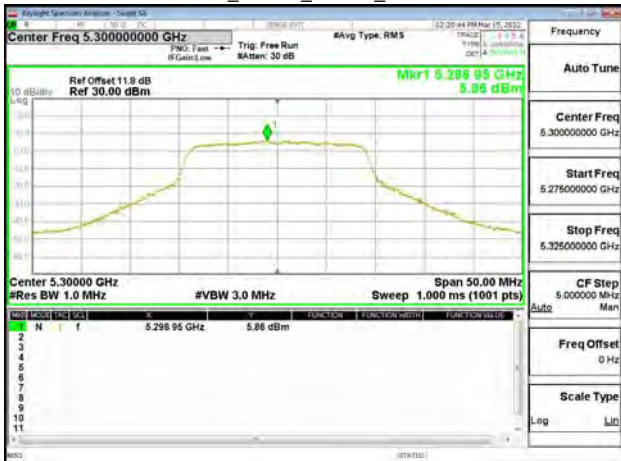
802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz

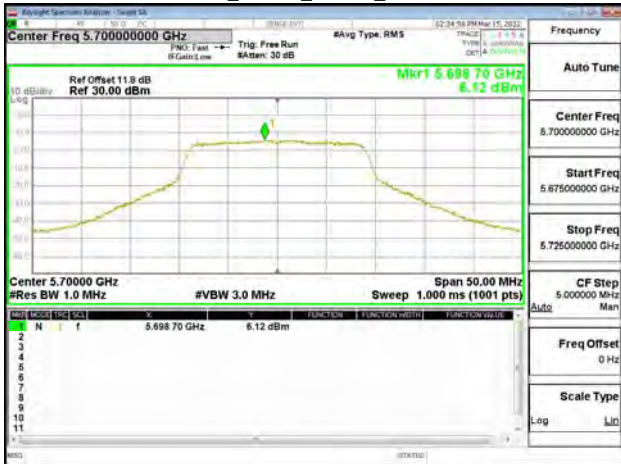


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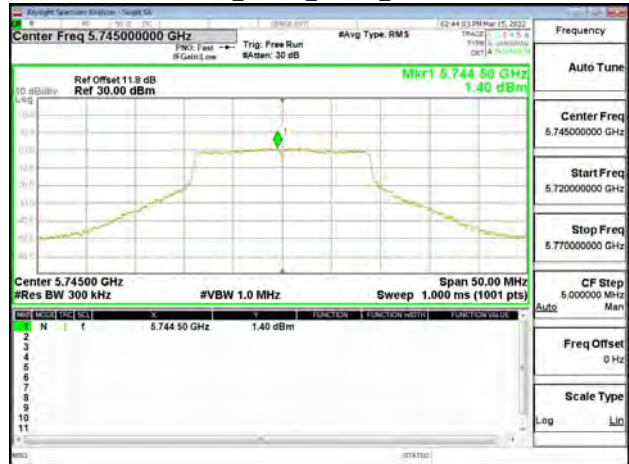
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802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5745MHz



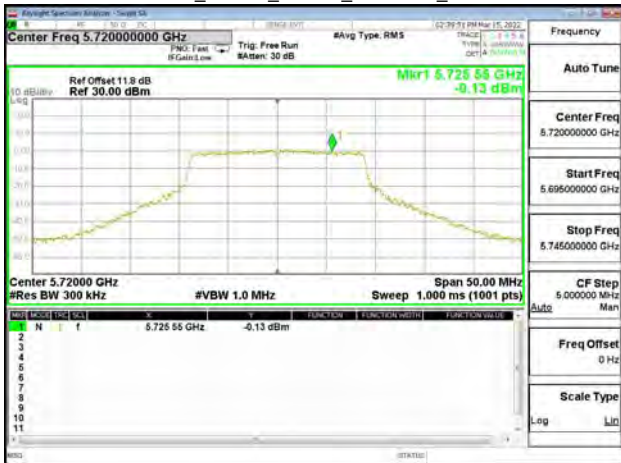
802.11n_20MHz_Chain0_5720MHz_UNII 2C



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5720MHz_UNII 3



802.11n_20MHz_Chain0_5825MHz

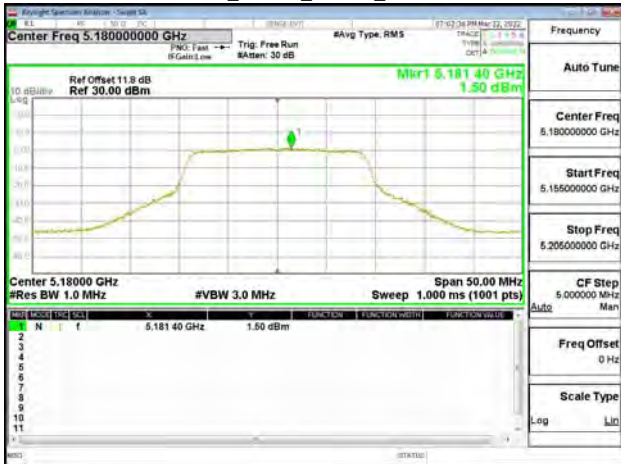


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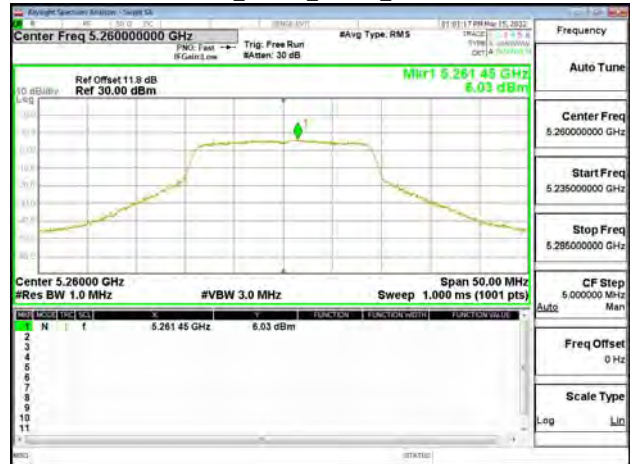
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802.11n_20MHz_Chain1_5180MHz



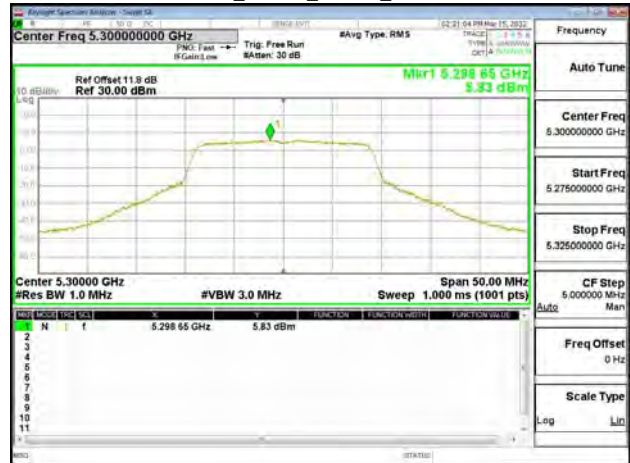
802.11n_20MHz_Chain1_5260MHz



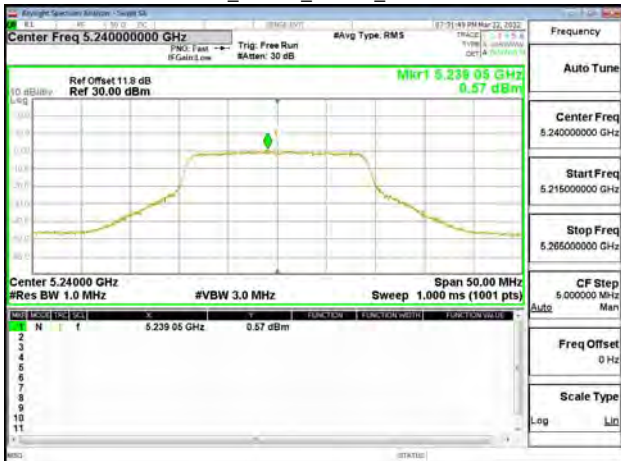
802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz

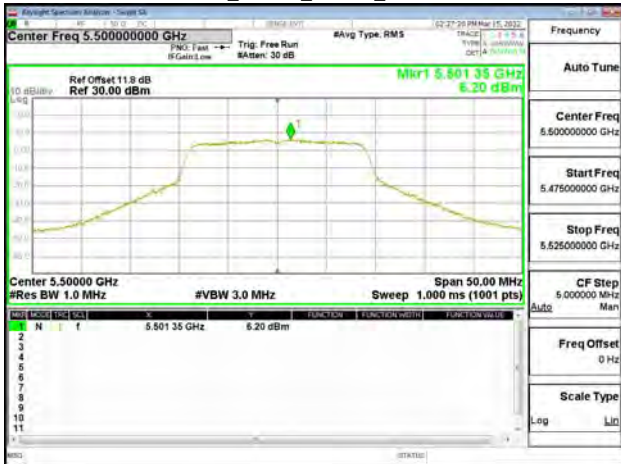


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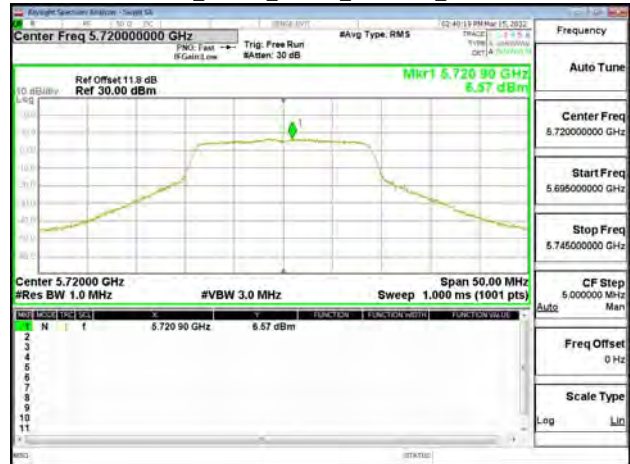
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802.11n_20MHz_Chain1_5500MHz



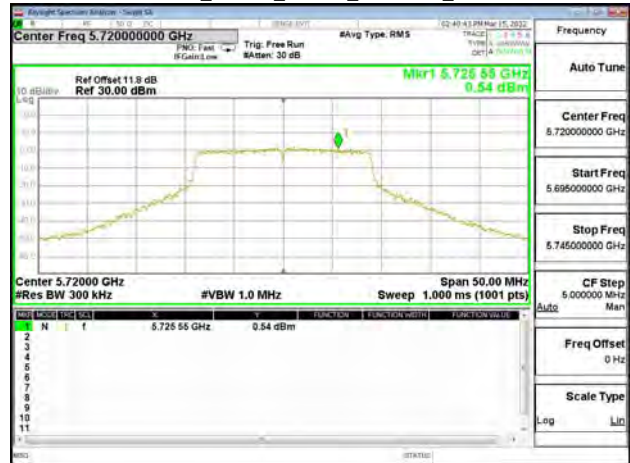
802.11n_20MHz_Chain1_5720MHz_UNII 2C



802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5720MHz_UNII 3



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5745MHz

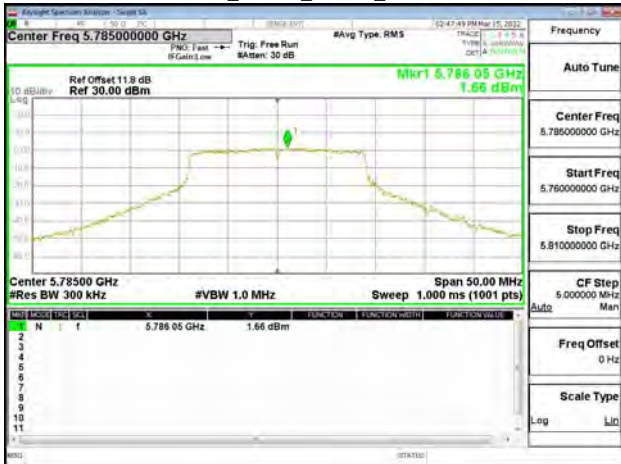


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802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz



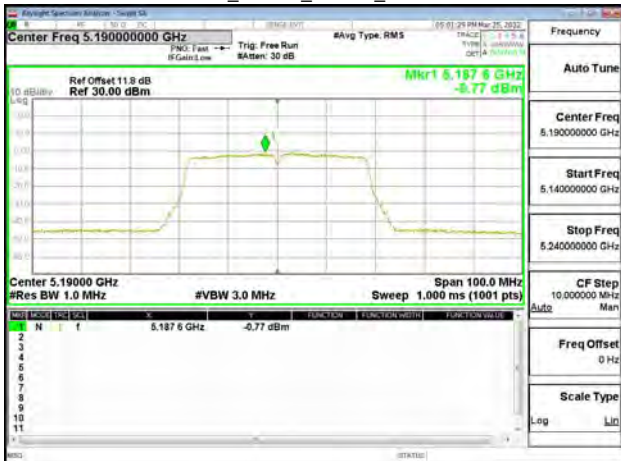
802.11n_20MHz_Chain1_5825MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz



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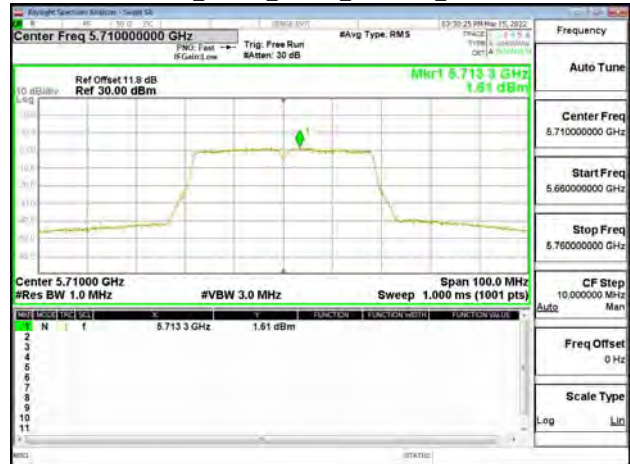
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802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz_UNII 2C



802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5710MHz_UNII 3



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5755MHz



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