

TEST REPORT

Reference No. : WTH26D03056304W005
FCC ID..... : 2BC96NB-CMA08
Applicant..... : NETVUE INC.
Address : 1055 East Colorado Boulevard 5th Floor Pasadena, CA, 91106,
United States
Manufacturer : NETVUE INC.
Address : 1055 East Colorado Boulevard 5th Floor Pasadena, CA, 91106,
United States
Product..... : Birdfy Cam BA6A
Model(s)..... : NB-CMA08, NB-CMA08-XXXXXX
(XXXXXX can be A-Z, 0-9,a-z or blank, indicate different color)
Standards..... : FCC 47CFR Part 15 Section 15.407
Date of Receipt Sample : 2026-03-12
Date of Test..... : 2026-03-13 to 2026-03-31
Date of Issue : 2026-04-07
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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2 Contents

	Page
1 COVER PAGE	1
2 CONTENTS	2
3 REVISION HISTORY	4
4 GENERAL INFORMATION	5
4.1 GENERAL DESCRIPTION OF E.U.T.	5
4.2 DETAILS OF E.U.T.	5
4.3 CHANNEL LIST	6
4.4 TEST MODE DESCRIPTION	7
4.5 TEST FACILITY	7
5 EQUIPMENT USED DURING TEST	8
5.1 EQUIPMENTS LIST	8
5.2 MEASUREMENT UNCERTAINTY	9
6 TEST SUMMARY	10
7 DUTY CYCLE	11
7.1 SUMMARY OF TEST RESULTS	11
8 CONDUCTED EMISSION	19
8.1 E.U.T. OPERATION	19
8.2 EUT SETUP	19
8.3 MEASUREMENT DESCRIPTION	19
8.4 CONDUCTED EMISSION TEST RESULT	20
9 RADIATED EMISSIONS	22
9.1 EUT OPERATION	22
9.2 TEST SETUP	23
9.3 SPECTRUM ANALYZER SETUP	24
9.4 TEST PROCEDURE	25
9.5 CORRECTED AMPLITUDE & MARGIN CALCULATION	25
9.6 SUMMARY OF TEST RESULTS	26
10 BAND EDGE	40
10.1 TEST PRODUCE	40
10.2 TEST RESULT	41
11 6 DB BANDWIDTH	55
11.1 TEST PROCEDURE	55
11.2 TEST RESULT	55
12 26 DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	65
12.1 TEST PROCEDURE	65
12.2 TEST RESULT	65
13 CONDUCTED OUTPUT POWER	84
13.1 TEST PROCEDURE	84
13.2 TEST RESULT	86
14 POWER SPECTRAL DENSITY	106
14.1 TEST PROCEDURE	106
14.2 TEST RESULT	107

15 FREQUENCY STABILITY127
15.1 TEST PROCEDURE127
15.2 TEST RESULT128

16 ANTENNA REQUIREMENT129

17 RF EXPOSURE129

18 PHOTOGRAPHS OF TEST SETUP AND EUT.....129

3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTH26D03056304W005	2026-03-12	2026-03-13 to 2026-03-31	2026-04-07	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Birdfy Cam BA6A
Model(s):	NB-CMA08, NB-CMA08-XXXXXX (XXXXXX can be A-Z, 0-9, a-z or blank, indicate different color)
Model Description:	The differences between the products are limited to color, model name, and RF antenna design. Radiated Spurious Emission (RSE) differential testing will be performed on the different antenna versions. Model NB-CMA08 with the different antenna versions was tested in the report.
Test Sample No.:	1-1/1
Wi-Fi Specification:	5G-802.11a/n(HT20/40)/ac(VHT20/40)/ax(HE20/40)
Hardware Version:	P66V1
Software Version:	4021

4.2 Details of E.U.T.

Operation Frequency:	802.11a/n(HT20)/ac(VHT20)/ax(HE20): U-NII-1: 5180-5240MHz, U-NII-3: 5745-5825MHz 802.11n(HT40)/ac(VHT40)/ax(HE40): U-NII-1: 5190-5230MHz, U-NII-3: 5755-5795MHz
Max. RF output power:	U-NII-1: 13.31dBm U-NII-3: 15.27dBm
Type of Modulation:	OFDM, OFDMA
Antenna installation:	Monopole Antenna
Antenna Gain:	Ant.1: 2.9dBi Ant.2: 3.82dBi

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTERK lab has not verified the authenticity of its information.

Ratings:	DC 5V, 2A from USB Type-C Rechargeable Li-ion Battery: 3.6V, 9000mAh, 32.4Wh
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4.3 Channel List

U-NII-1 (5.15-5.25GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	38	5190
40	5200	42	5210
44	5220	46	5230
48	5240		
U-NII-3 (5.725-5.85GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	151	5755
153	5765	155	5775
157	5785	159	5795
161	5805	165	5825

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20)/ax(HE20):

channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	40	5200
48	5240		

channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	157	5785
165	5825		

For 802.11n(HT40)/ac(VHT40)/ax(HE40):

channel	Frequency(MHz)	channel	Frequency(MHz)
38	5190	46	5230

channel	Frequency(MHz)	channel	Frequency(MHz)
151	5755	159	5795

4.4 Test Mode Description

During testing, Channel and Power Controlling Software provided by the applicant was used to control the operating channel as well as the maximum output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Transmitting duty cycle is no less 98%.

The software is TermAssist and SecureCRT tool Use together.

Test Items	Mode	Data Rate	TX/RX
Radiated Emissions	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Duty Cycle	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Band Edge	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
6dB Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Conducted Output Power	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Power Spectral Density	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)/ac(VHT20/40)/ax(HE20/40)	MCS0	TX
Frequency Stability	Un-modulation	/	TX

Note: 802.11 ax HE20/HE40 only support full RU, only full RU is recorded in the report.

4.5 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration number 523476, September 10, 2019.

5 Equipment Used during Test

5.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
Conducted emissions from the AC mains power ports 2#						
1	EMI Test Receiver	R&S	ESCI	101155	2025-07-04	2026-07-03
2	LISN	SCHWARZBECK	NSLK 8128	8128-259	2025-06-03	2026-06-02
3	Pulse Limiter	CYBERTEK	EM5010	261115-001-0024	2025-07-04	2026-07-03
4	Cable	Laplace	RF300	-	2025-07-04	2026-07-03
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2025-04-19	2026-04-18
2	Amplifier	Agilent	8447D	2944A10178	2025-07-04	2026-07-03
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2025-07-20	2026-07-19
4	Coaxial Cable	Top	TYPE16(13M)	-	2025-04-19	2026-04-18
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1314	2025-08-09	2026-08-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2025-07-04	2026-07-03
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2025-07-04	2026-07-03
8	Coaxial Cable (above 1GHz)	ZT26-NJ-NJ-8M/FA	1GHz-18GHz	NA	2025-04-19	2026-04-18
9	Microwave Broadband Preamplifier	SCHWARZBECK	BBV 9721	100472	2025-07-04	2026-07-03
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2025-04-19	2026-04-18
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2025-07-05	2026-07-04
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2025-04-21	2026-04-20
4	Amplifier	ANRITSU	MH648A	M43381	2025-04-19	2026-04-18
5	Cable	HUBER+SUHNER	CBL2	525178	2025-04-19	2026-04-18
RF Conducting						
1	Spectrum Analyzer	R&S	FSP40	100501	2025-07-04	2026-07-03
2	EXA Signal Analyzer	Malaysia Keysight	N9010A	MY50520207	2025-04-19	2026-04-18

Test Software:

Test Item	Software name	Software version
Conducted Emission Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

5.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

6 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a)	PASS
Radiated Emissions	15.407(a) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	PASS
6dB Bandwidth	15.407(a)	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	PASS
Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Restricted bands around fundamental frequency	15.407(a)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

7 Duty cycle

Test Requirement: FCC 47CFR Part 15 Section 15.407
KDB789033 D02 General U-NII Test Procedures New Rules v02r01, Section (B)

Test Method: ANSI C63.10-2020

Test Limit: N/A

Test Result: PASS

Remark: Through Pre-scan, and found 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.

7.1 Summary of Test Results

Type of Modulation	On time ms	Period ms	Duty Cycle linear	Duty Cycle %	Duty Cycle Factor(dB)	Average Factor(dB)
U-NII-1 802.11a	1.36	11.40	0.12	11.93	9.23	-18.47
U-NII-1 802.11n(HT20)	5.01	15.10	0.33	33.18	4.79	-9.58
U-NII-1 802.11n(HT40)	4.76	14.90	0.32	31.95	4.96	-9.91
U-NII-1 802.11ac(VHT20)	4.96	15.10	0.33	32.85	4.83	-9.67
U-NII-1 802.11ac(VHT40)	4.81	14.90	0.32	32.28	4.91	-9.82
U-NII-1 802.11ax(HE20)	3.81	13.90	0.27	27.41	5.62	-11.24
U-NII-1 802.11ax(HE40)	3.76	13.90	0.27	27.05	5.68	-11.36
U-NII-3 802.11a	1.36	11.44	0.12	11.89	9.25	-18.50
U-NII-3 802.11n(HT20)	5.01	15.10	0.33	33.18	4.79	-9.58
U-NII-3 802.11n(HT40)	4.76	14.90	0.32	31.95	4.96	-9.91
U-NII-3 802.11ac(VHT20)	5.01	15.10	0.33	33.18	4.79	-9.58
U-NII-3 802.11ac(VHT40)	4.81	14.90	0.32	32.28	4.91	-9.82
U-NII-3 802.11ax(HE20)	3.81	13.90	0.27	27.41	5.62	-11.24
U-NII-3 802.11ax(HE40)	3.76	13.90	0.27	27.05	5.68	-11.36

Remark:

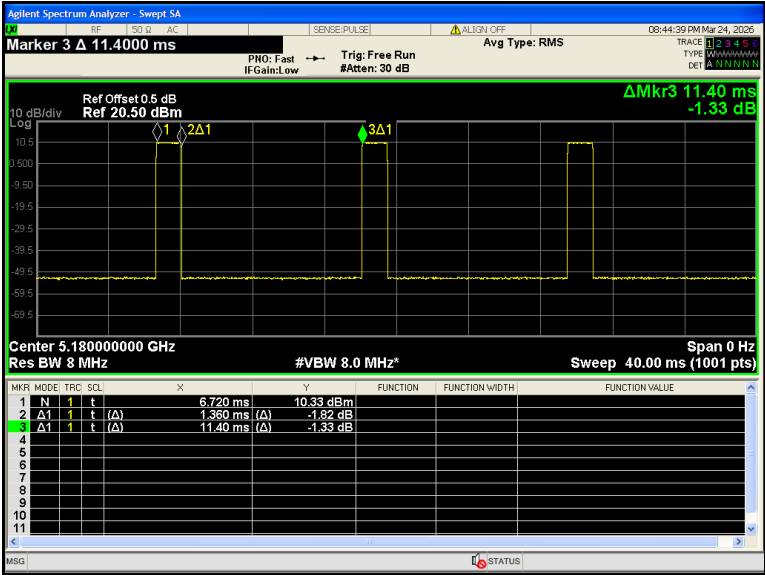
Duty cycle=On Time/period;

Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$;

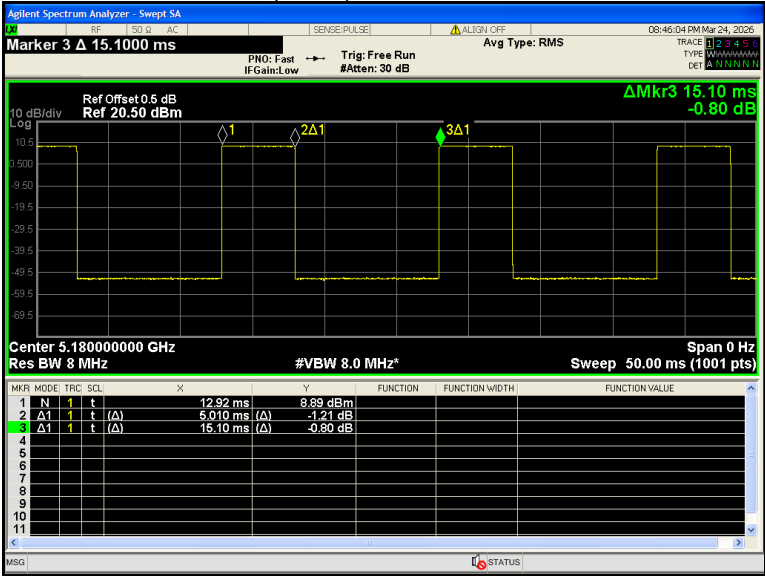
Average factor= $20 \log_{10} \text{Duty cycle}$

Test result plots shown as follows:

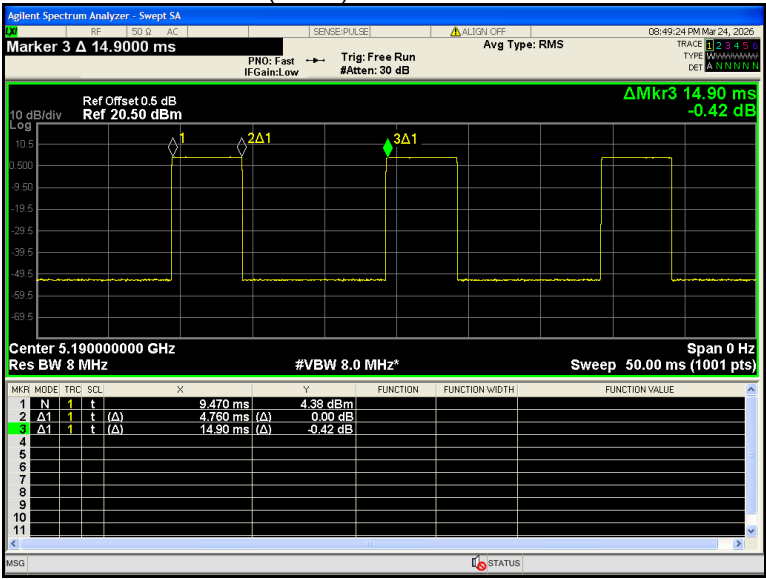
802.11a U-NII-1 Low channel



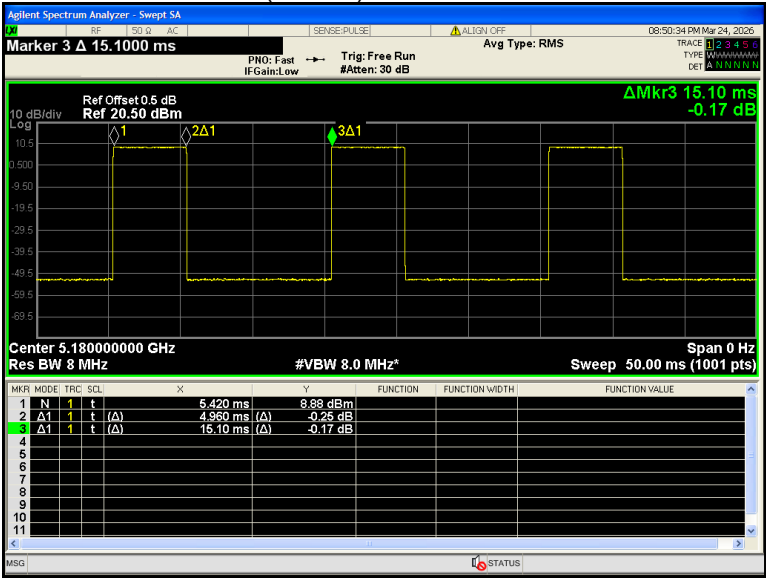
802.11n(HT20) U-NII-1 Low channel



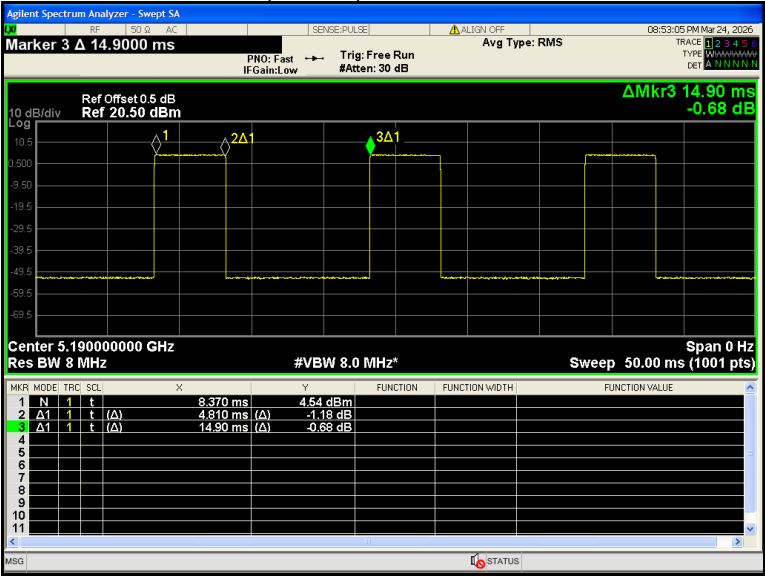
802.11n(HT40) U-NII-1 Low channel



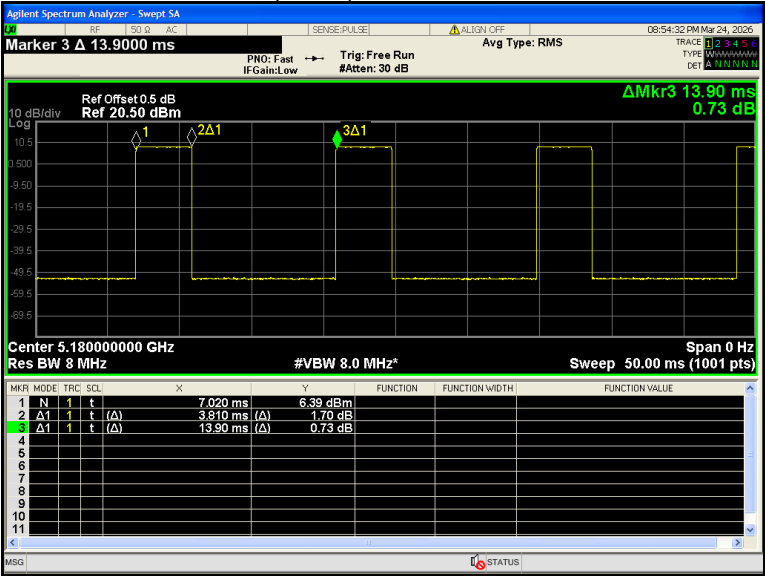
802.11ac(VHT20) U-NII-1 Low channel



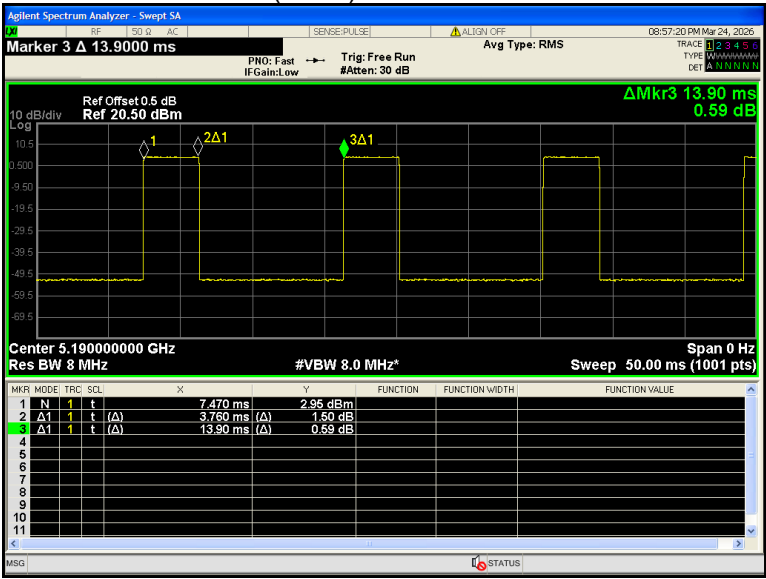
802.11ac(VHT40) U-NII-1 Low channel



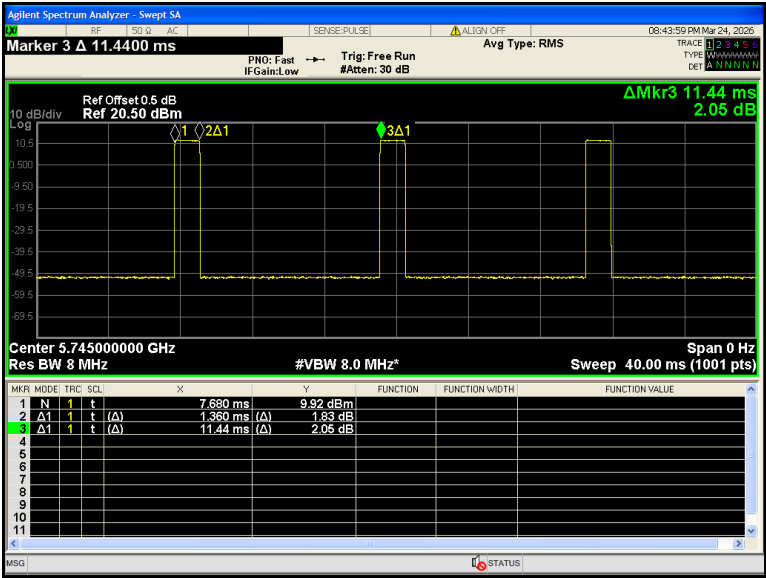
802.11ax(HE20) U-NII-1 Low channel



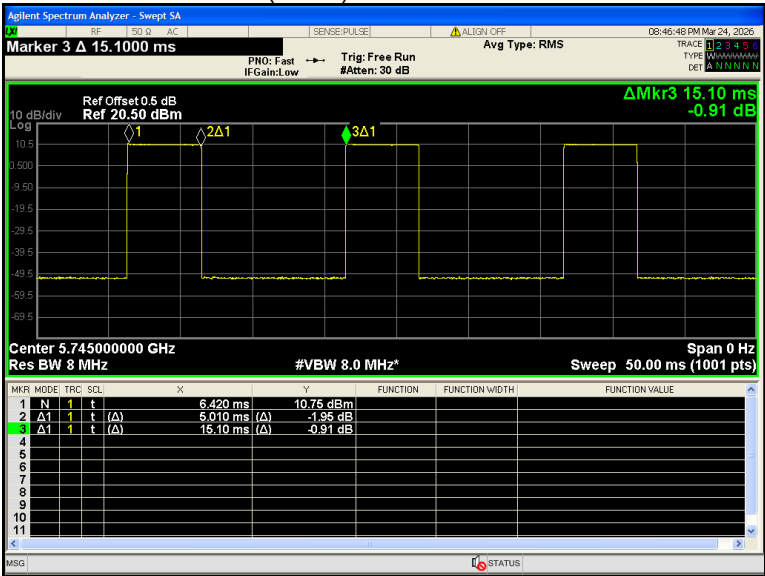
802.11ax(HE40) U-NII-1 Low channel



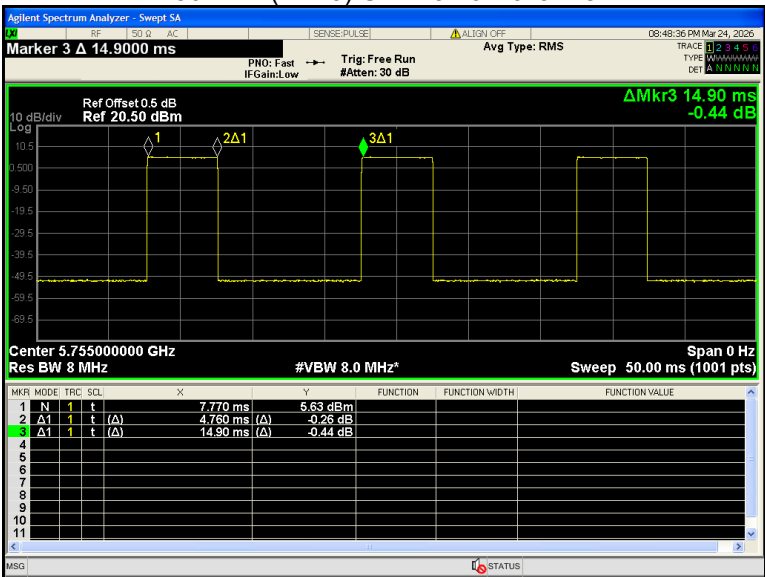
802.11a U-NII-3 Low channel



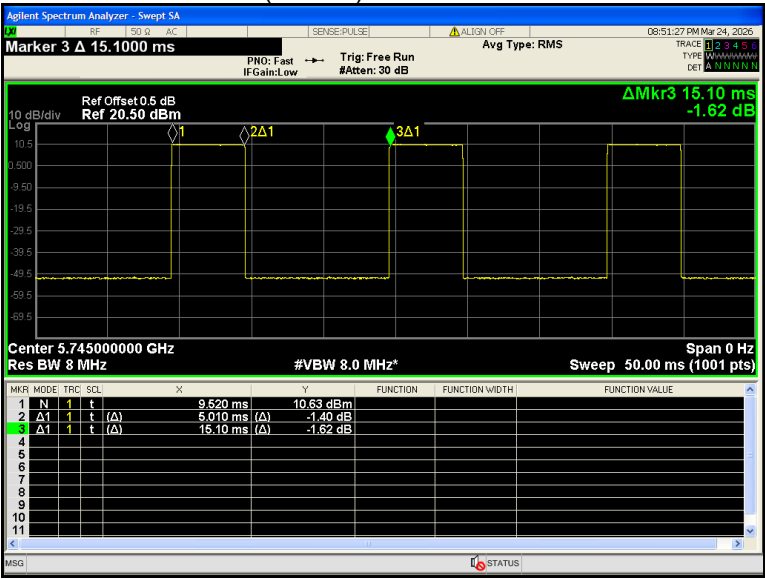
802.11n(HT20) U-NII-3 Low channel



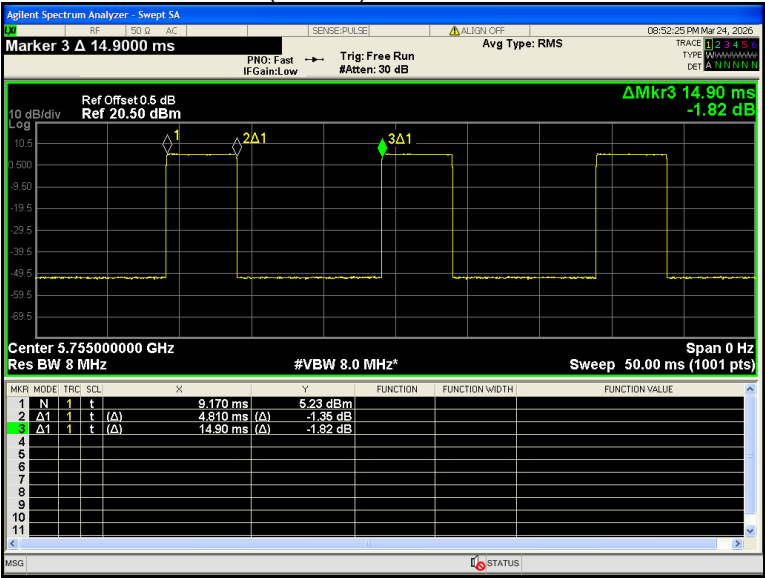
802.11n(HT40) U-NII-3 Low channel



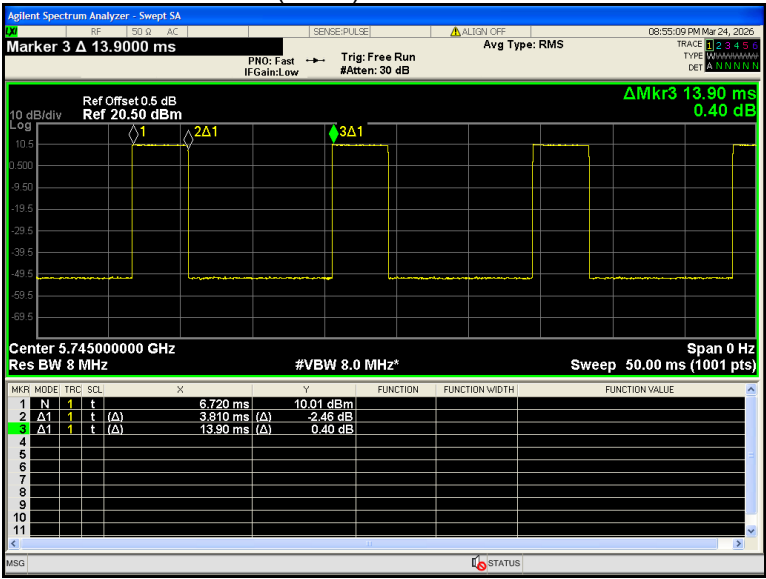
802.11ac(VHT20) U-NII-3 Low channel



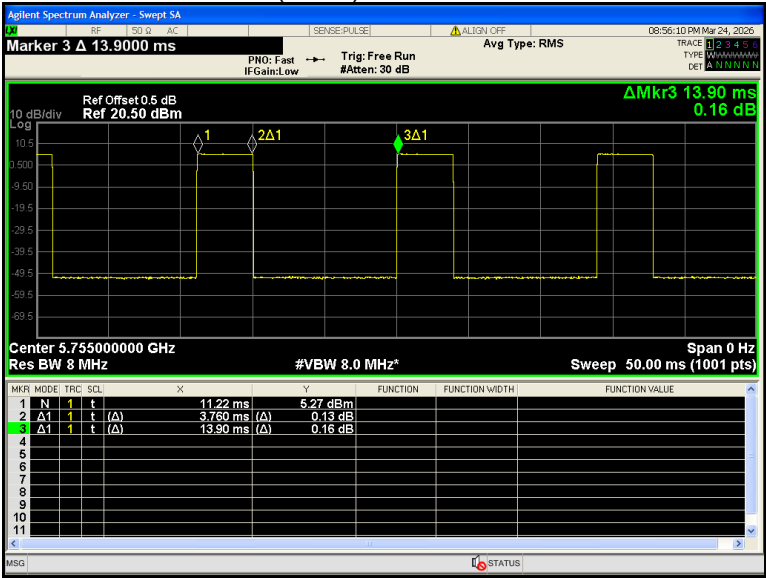
802.11ac(VHT40) U-NII-3 Low channel



802.11ax(HE20) U-NII-3 Low channel



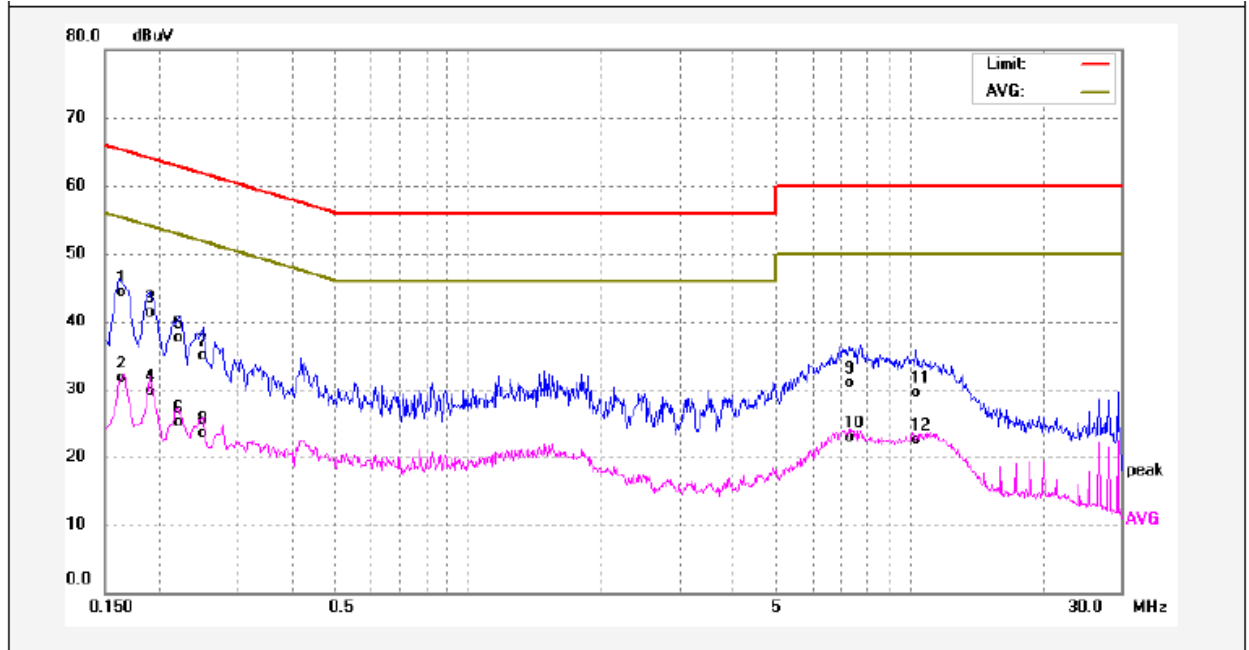
802.11ax(HE40) U-NII-3 Low channel



8.4 Conducted Emission Test Result

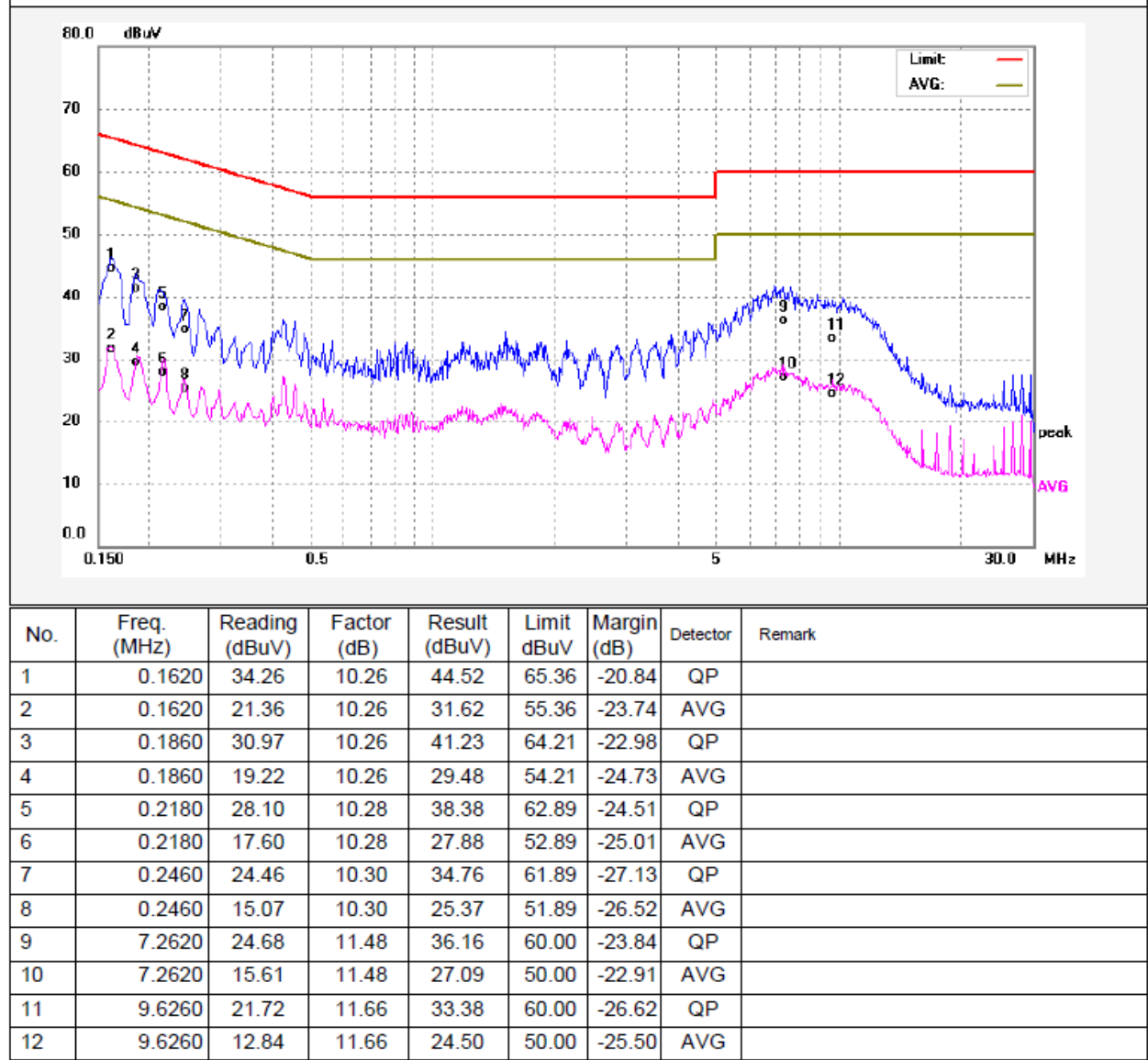
Remark: only the worst data (U-NII-3 802.11a Low channel mode) were reported

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1620	34.07	10.24	44.31	65.36	-21.05	QP	
2	0.1620	21.48	10.24	31.72	55.36	-23.64	AVG	
3	0.1900	30.97	10.28	41.25	64.03	-22.78	QP	
4	0.1900	19.46	10.28	29.74	54.03	-24.29	AVG	
5	0.2220	27.22	10.28	37.50	62.74	-25.24	QP	
6	0.2220	14.87	10.28	25.15	52.74	-27.59	AVG	
7	0.2500	24.58	10.25	34.83	61.75	-26.92	QP	
8	0.2500	13.19	10.25	23.44	51.75	-28.31	AVG	
9	7.2980	19.33	11.59	30.92	60.00	-29.08	QP	
10	7.2980	11.31	11.59	22.90	50.00	-27.10	AVG	
11	10.3060	17.60	11.84	29.44	60.00	-30.56	QP	
12	10.3060	10.65	11.84	22.49	50.00	-27.51	AVG	

Neutral line:



9 Radiated Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.209 & 15.407

Test Method: ANSI C63.10-2020

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Distance	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

9.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

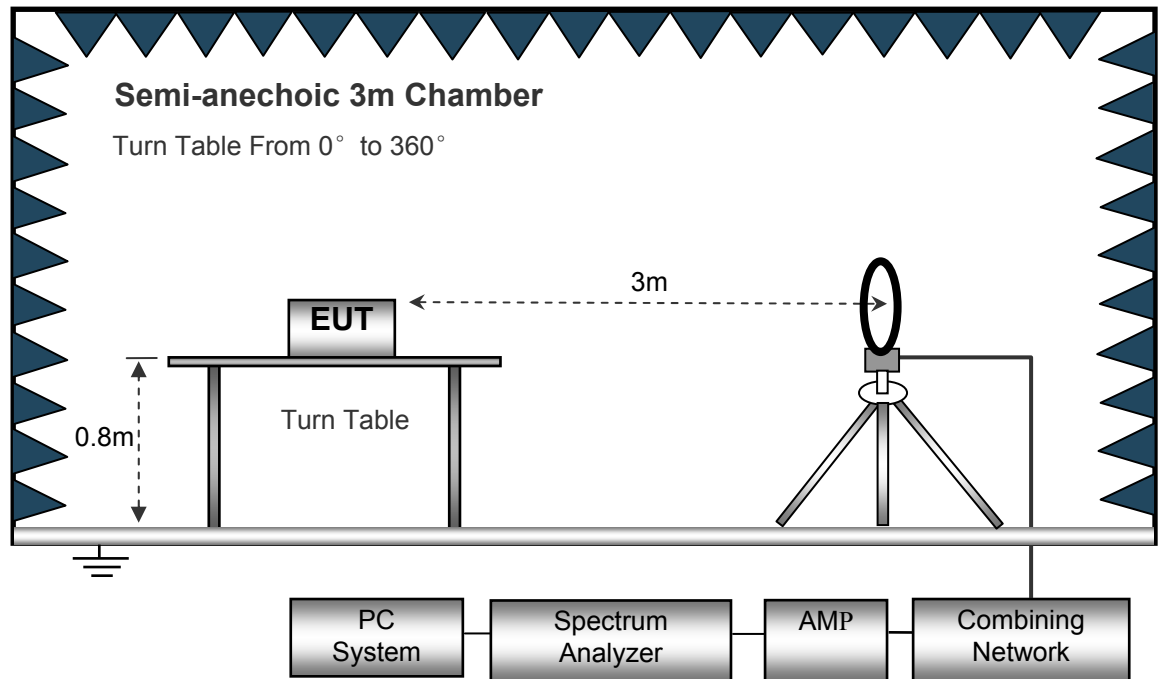
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

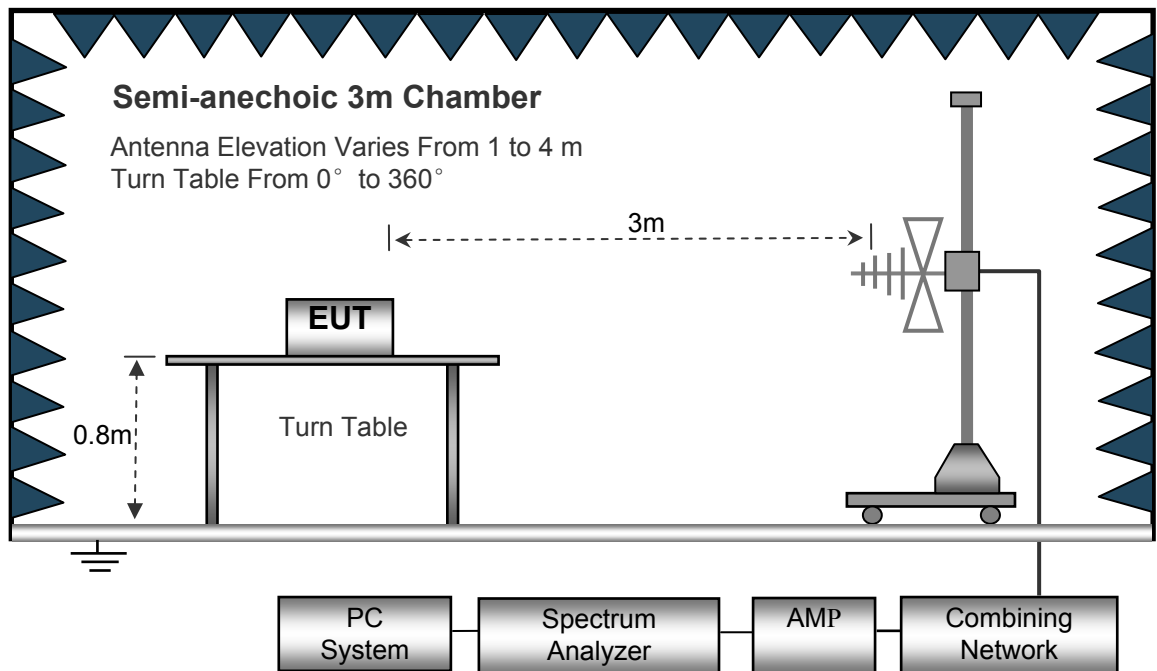
9.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10-2020.

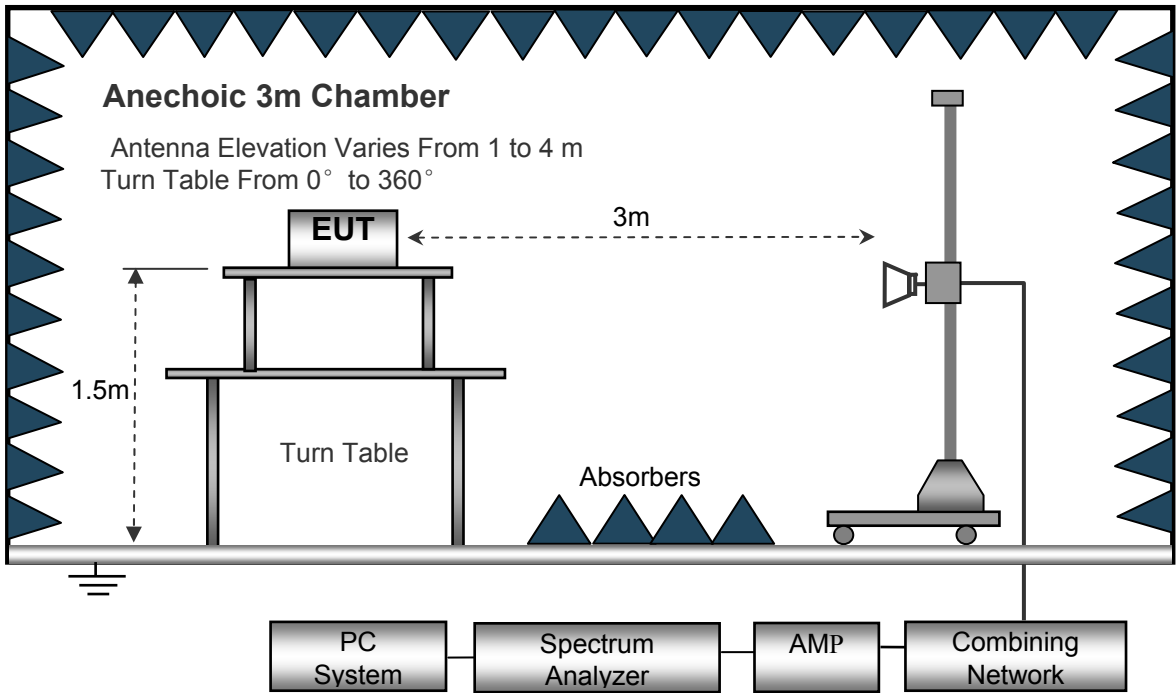
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



9.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
IF Bandwidth.....10kHz
Video Bandwidth.....10kHz
Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....100kHz
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....1MHz
Video Bandwidth.....3MHz
DetectorAve.
Resolution Bandwidth.....1MHz
Video Bandwidth.....10Hz

9.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

9.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

9.6 Summary of Test Results

Remark:

Both antennas are of the same type but with different gains, where the gain of Antenna 2 is higher than Antenna 1. Following pre-tests, only the data for 802.11a with Antenna 2 mode is recorded as it represents the worst-case configuration.

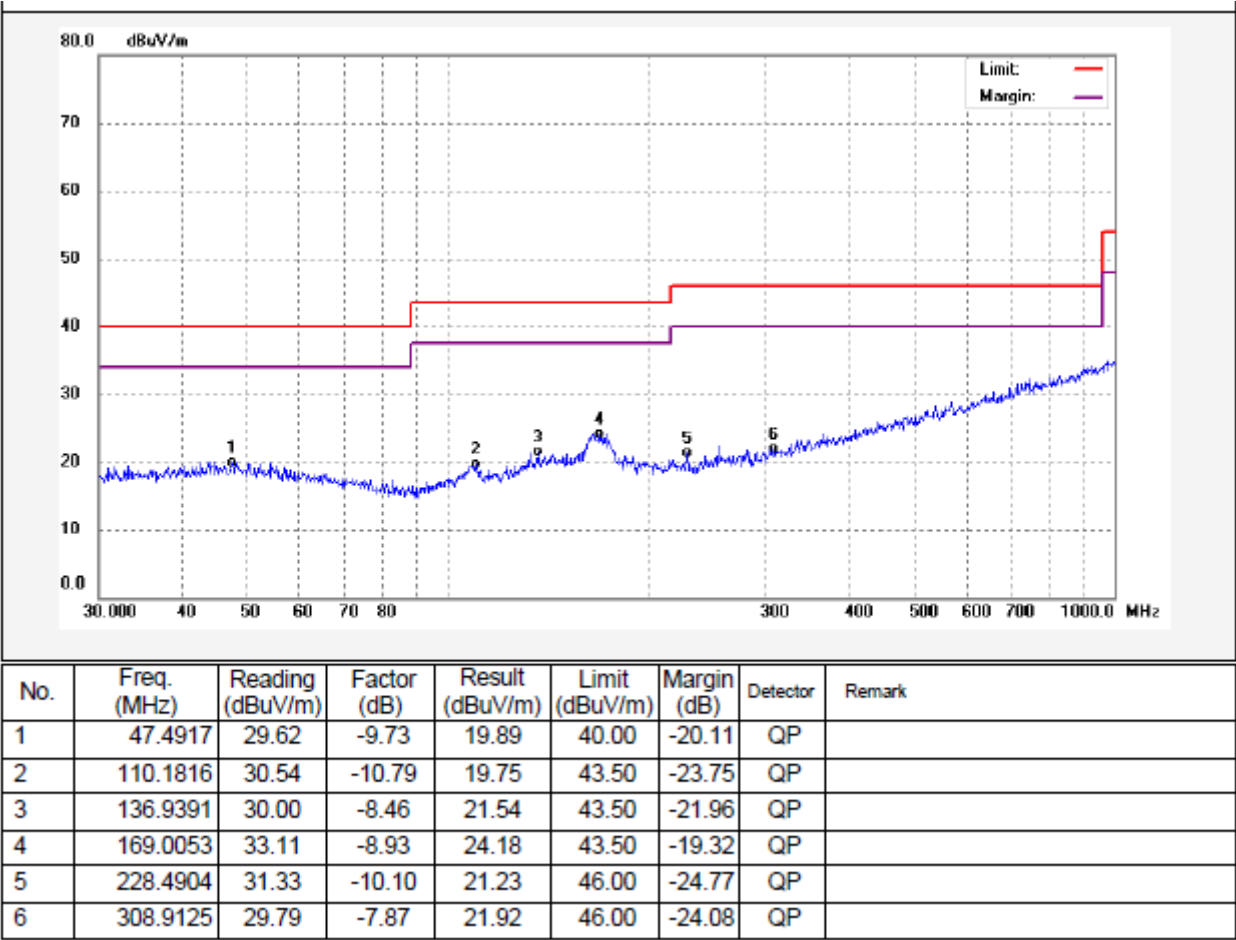
Test Frequency: 9KHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

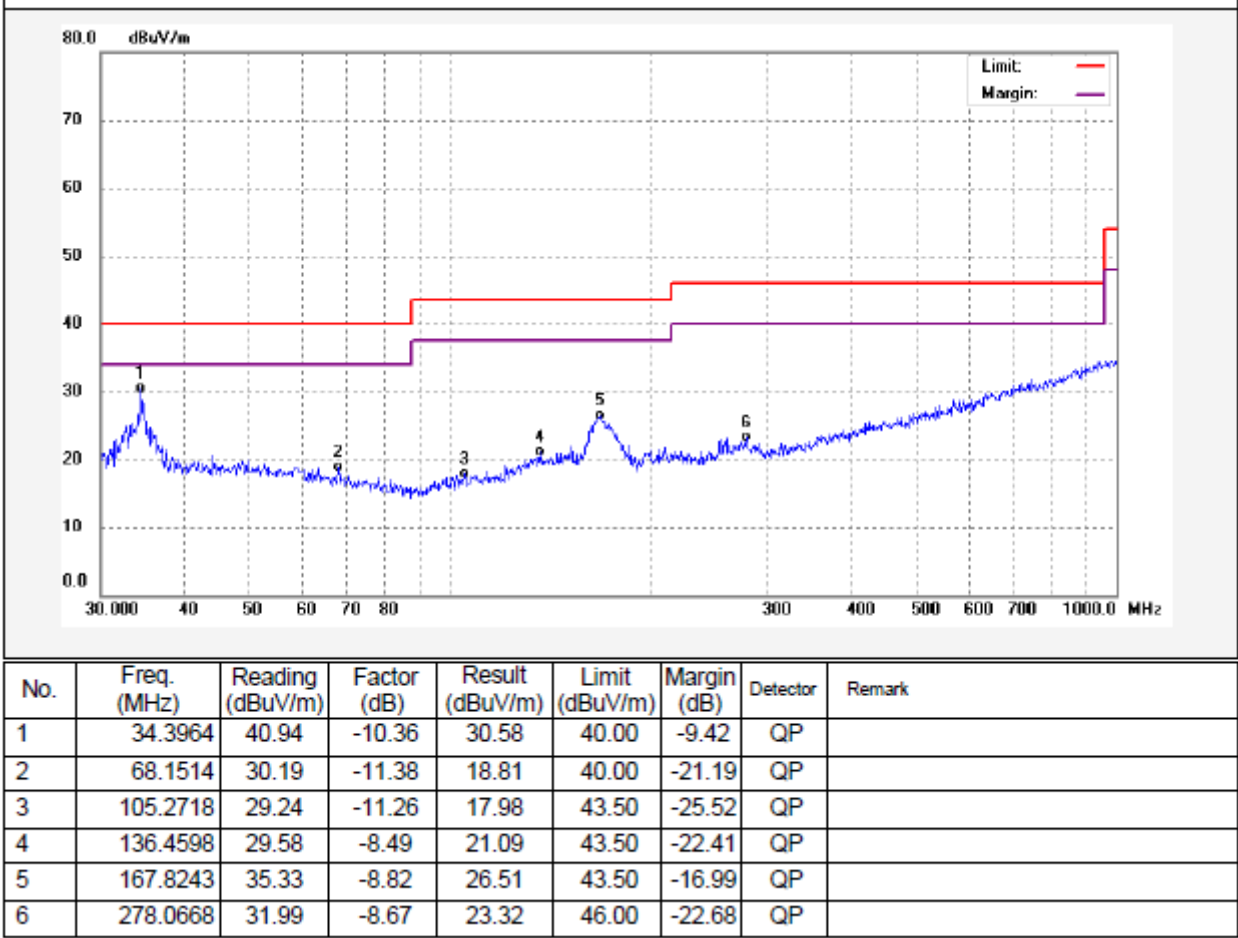
Test Frequency : 30MHz ~1GHz

Worst case-5745MHz:

Antenna Polarization: Horizontal



Antenna Polarization: Vertical

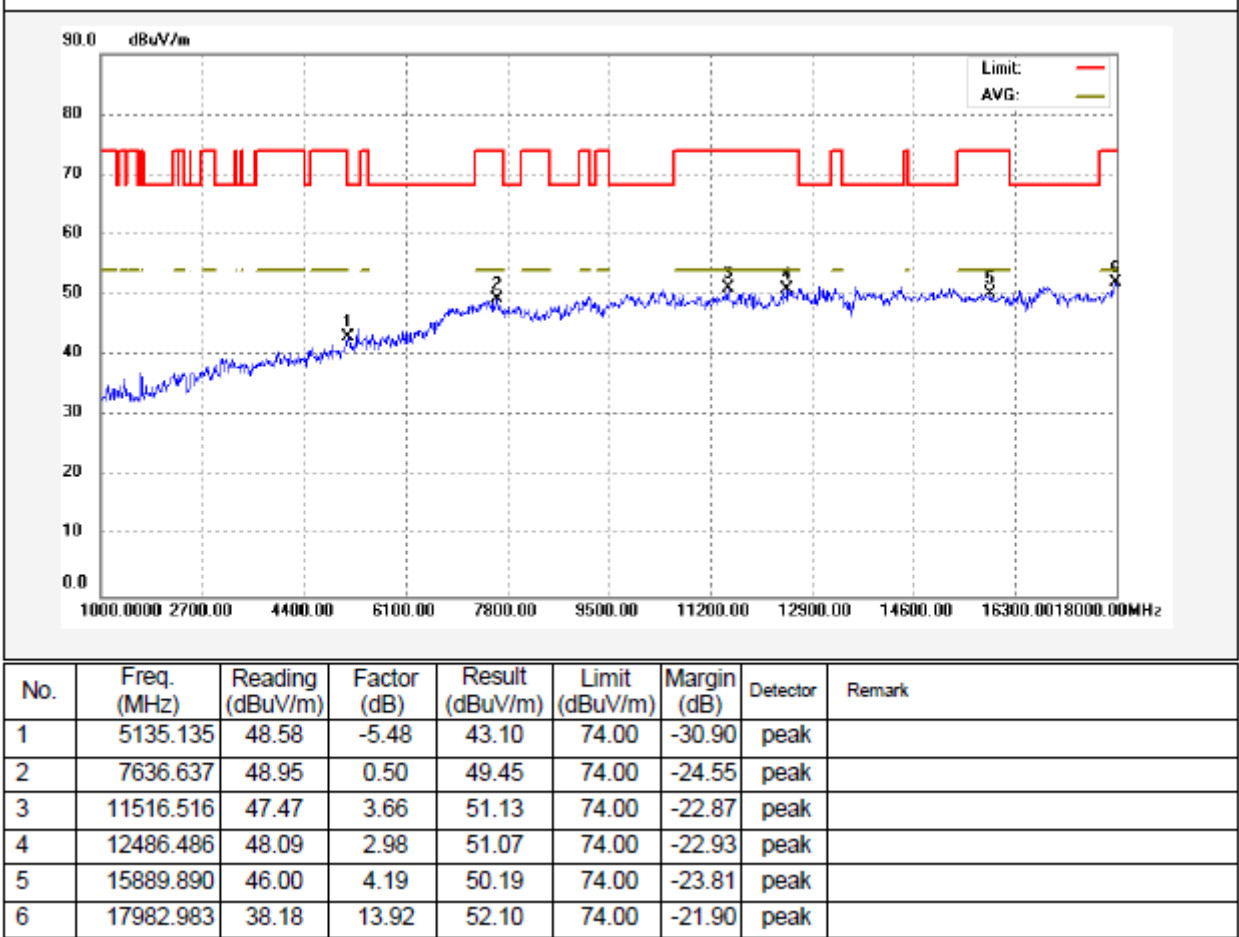


Test Frequency: 1GHz ~ 18GHz

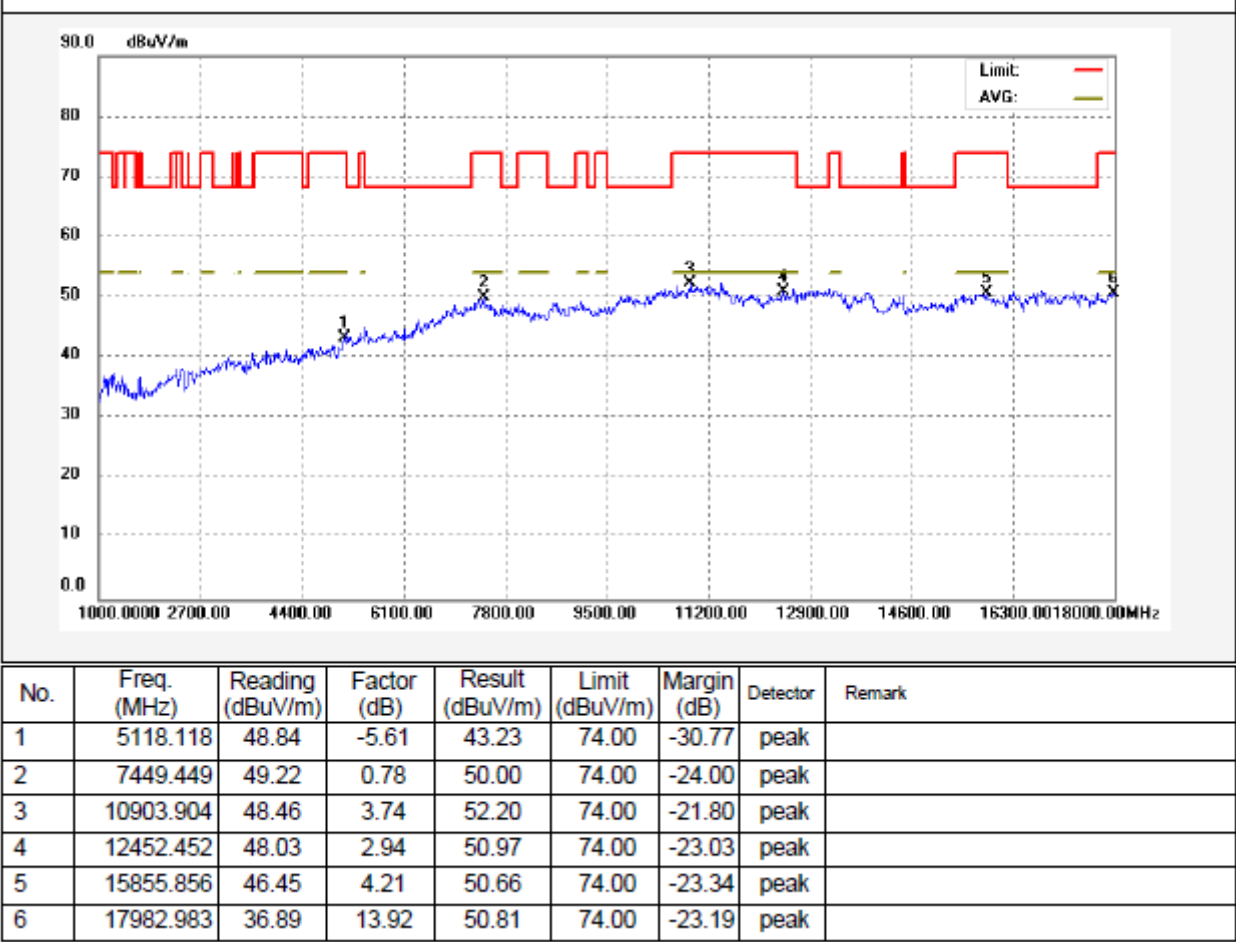
U-NII-1

Low:

Antenna Polarization: Horizontal

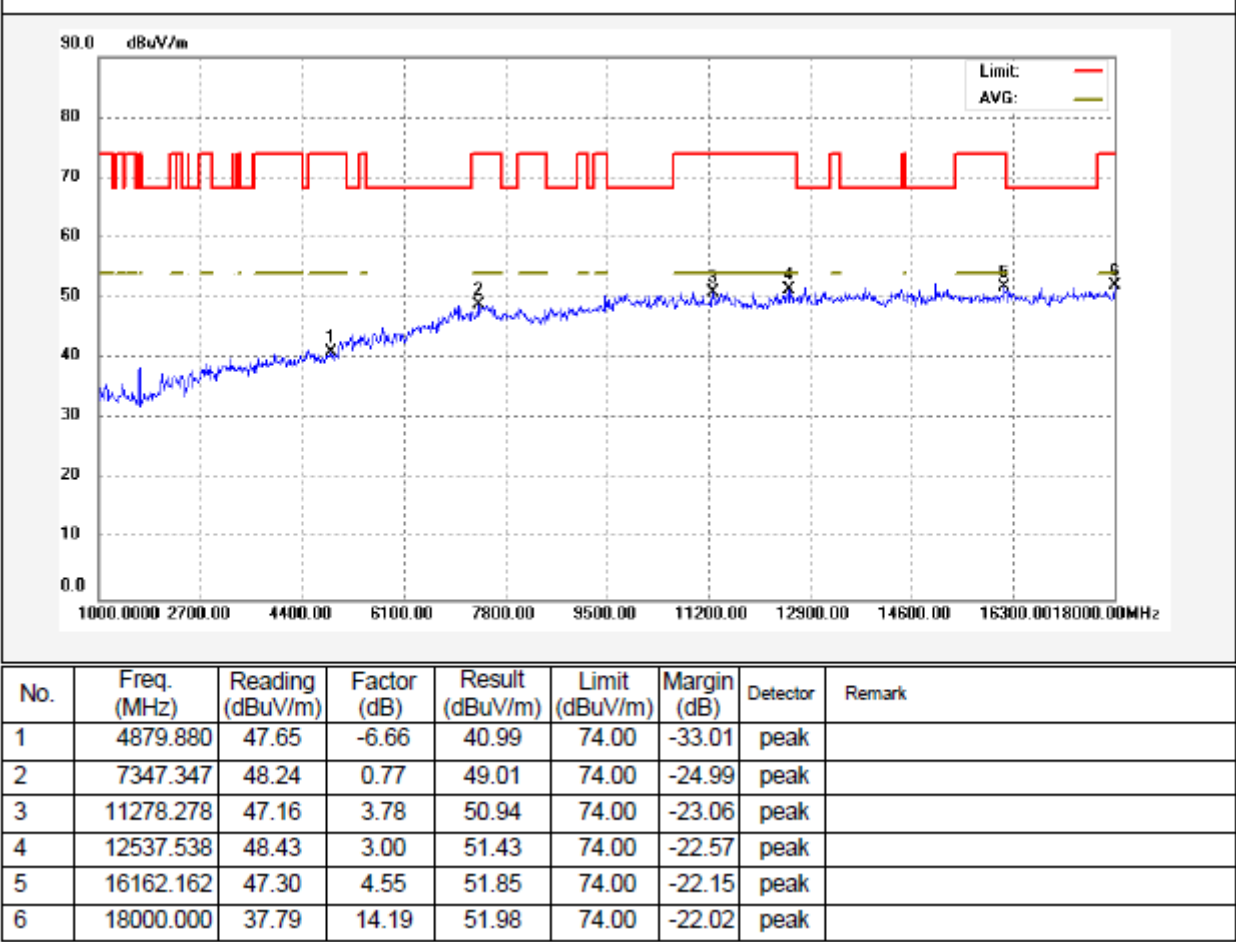


Antenna Polarization: Vertical

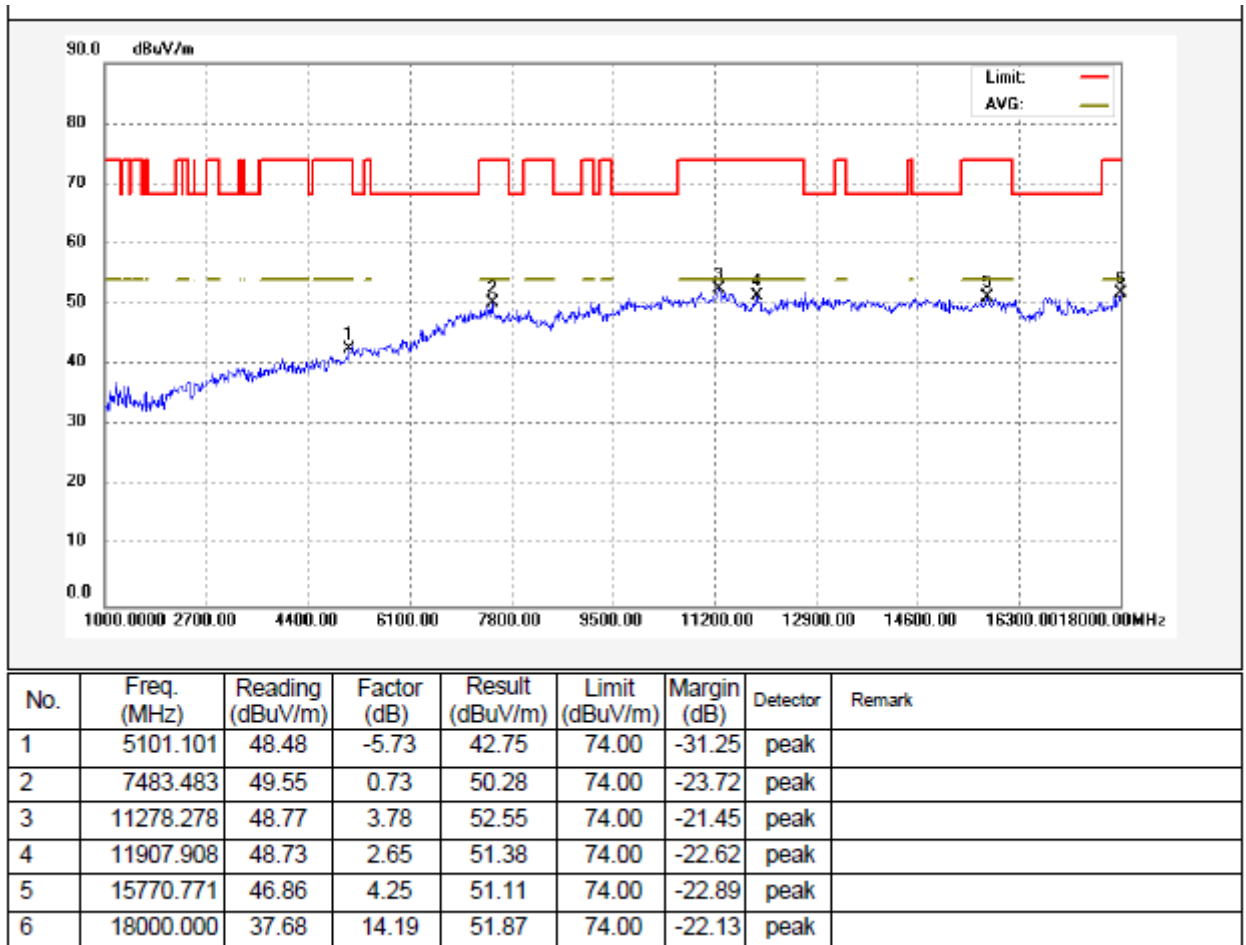


Middle:

Antenna Polarization: Horizontal

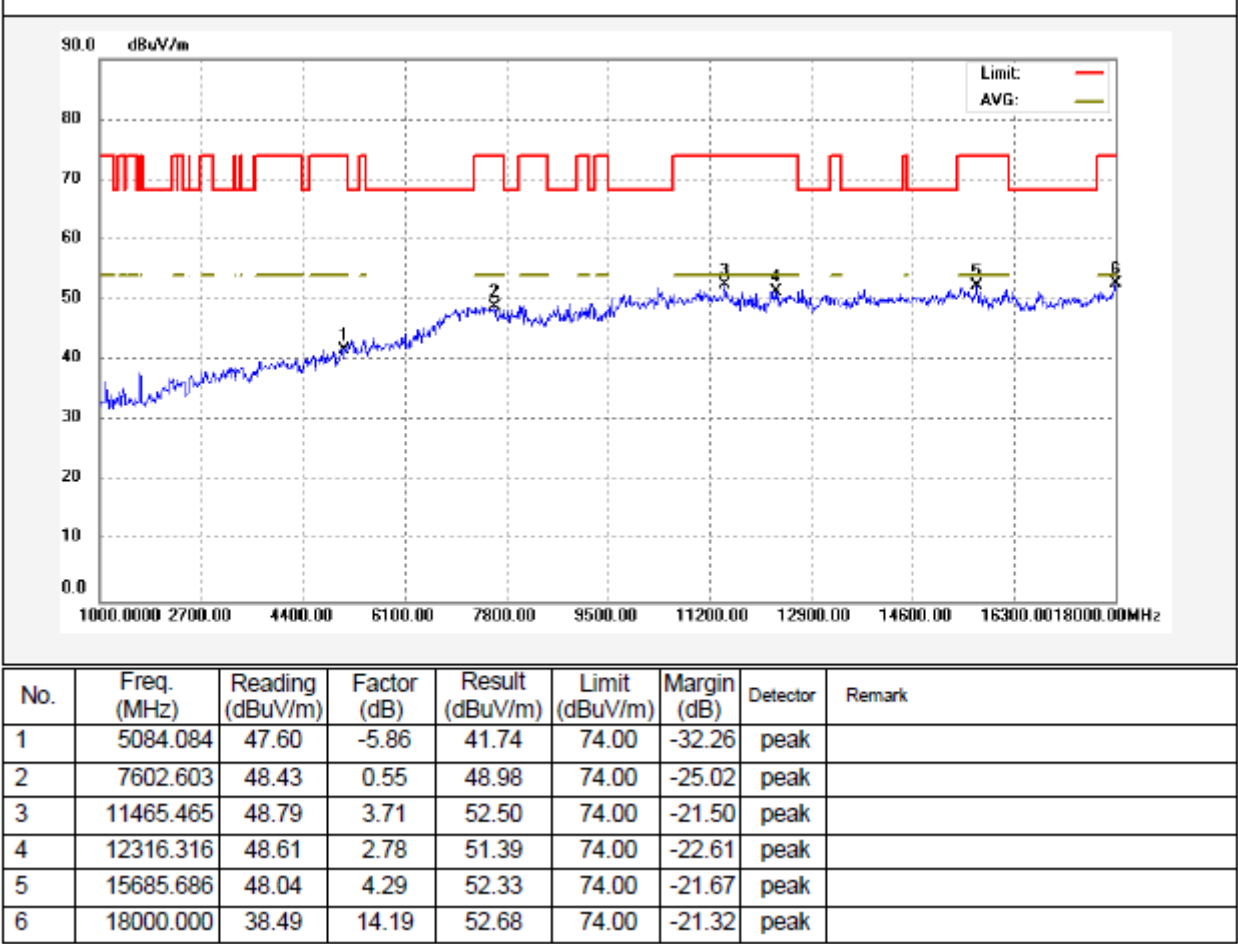


Antenna Polarization: Vertical

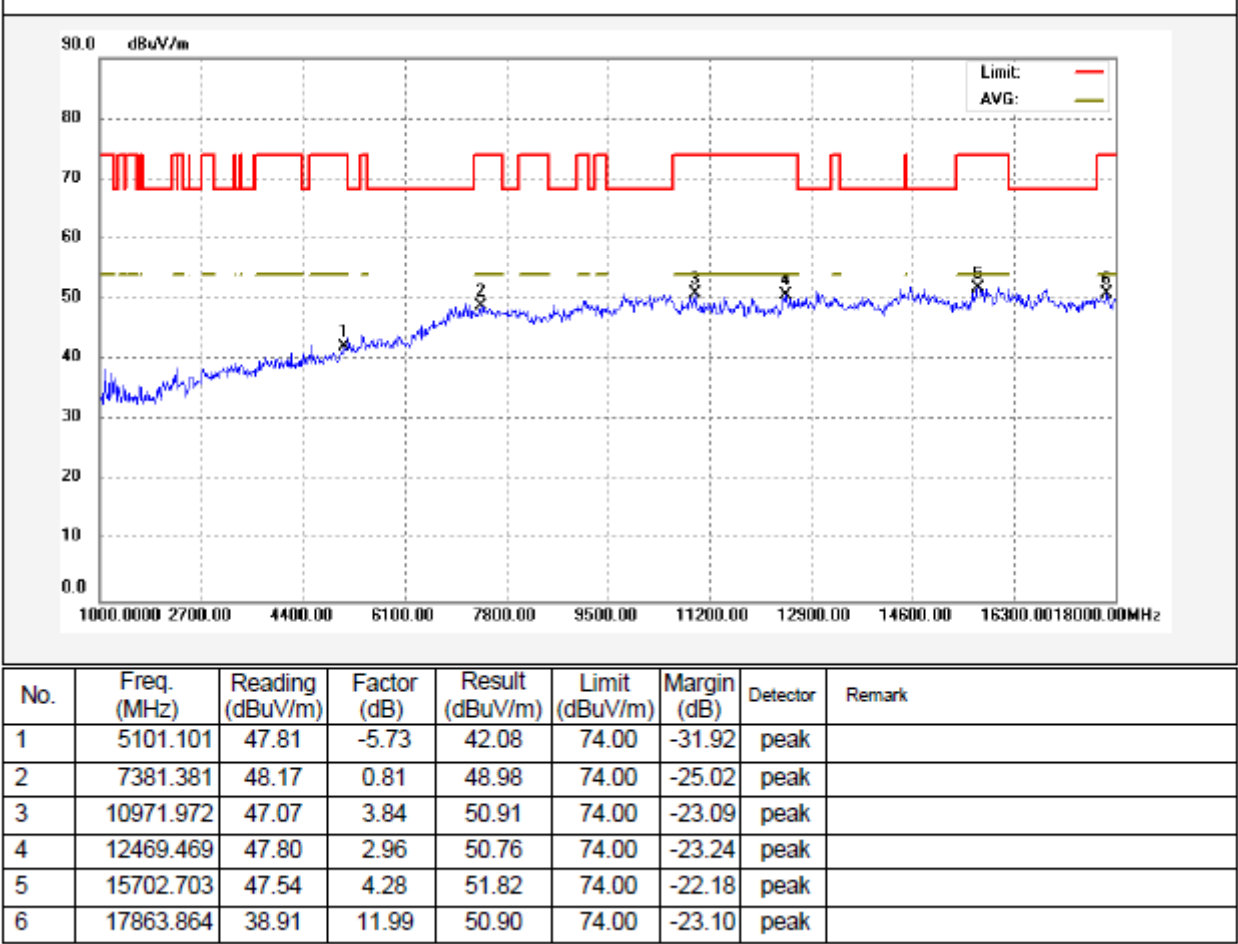


High:

Antenna Polarization: Horizontal

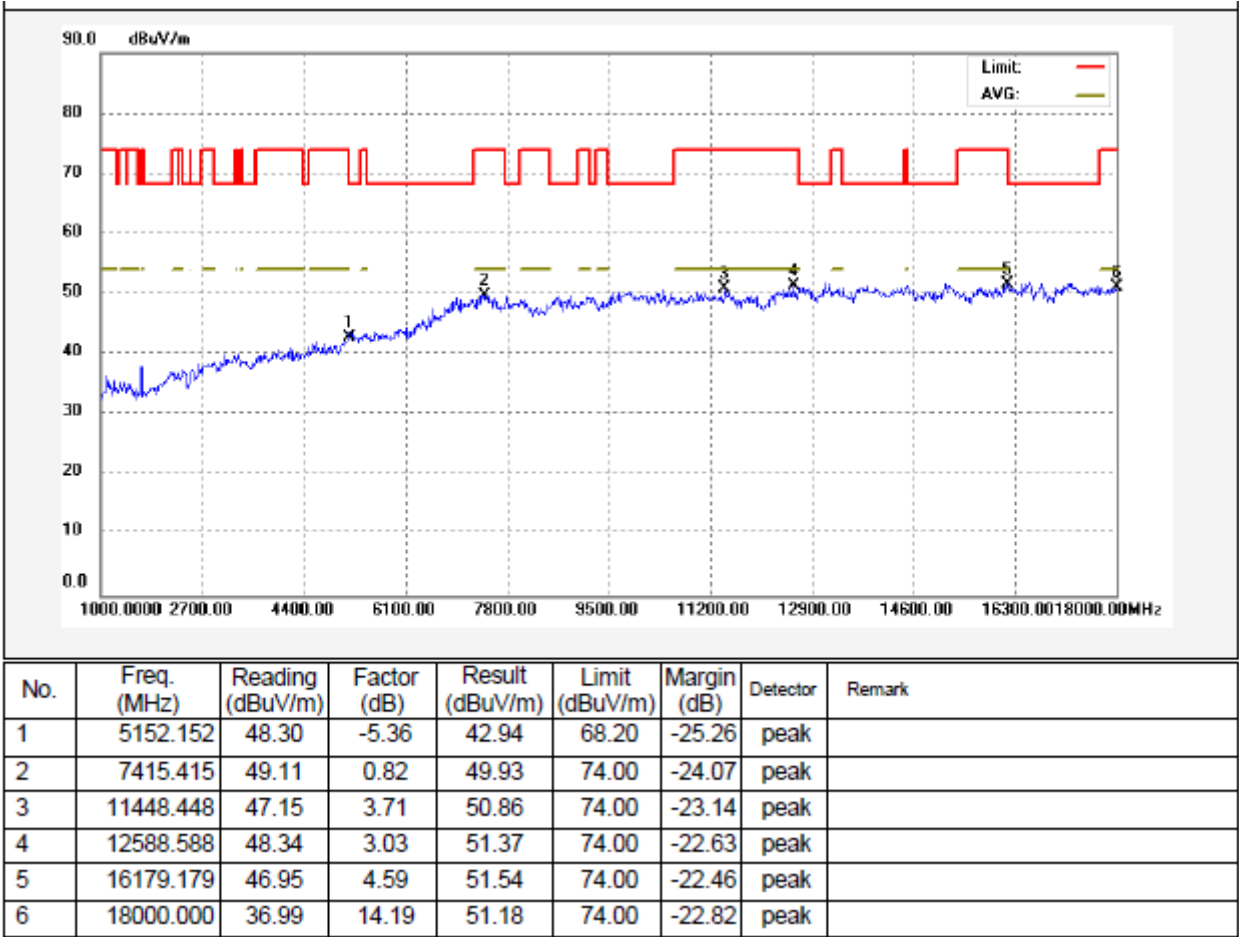


Antenna Polarization: Vertical

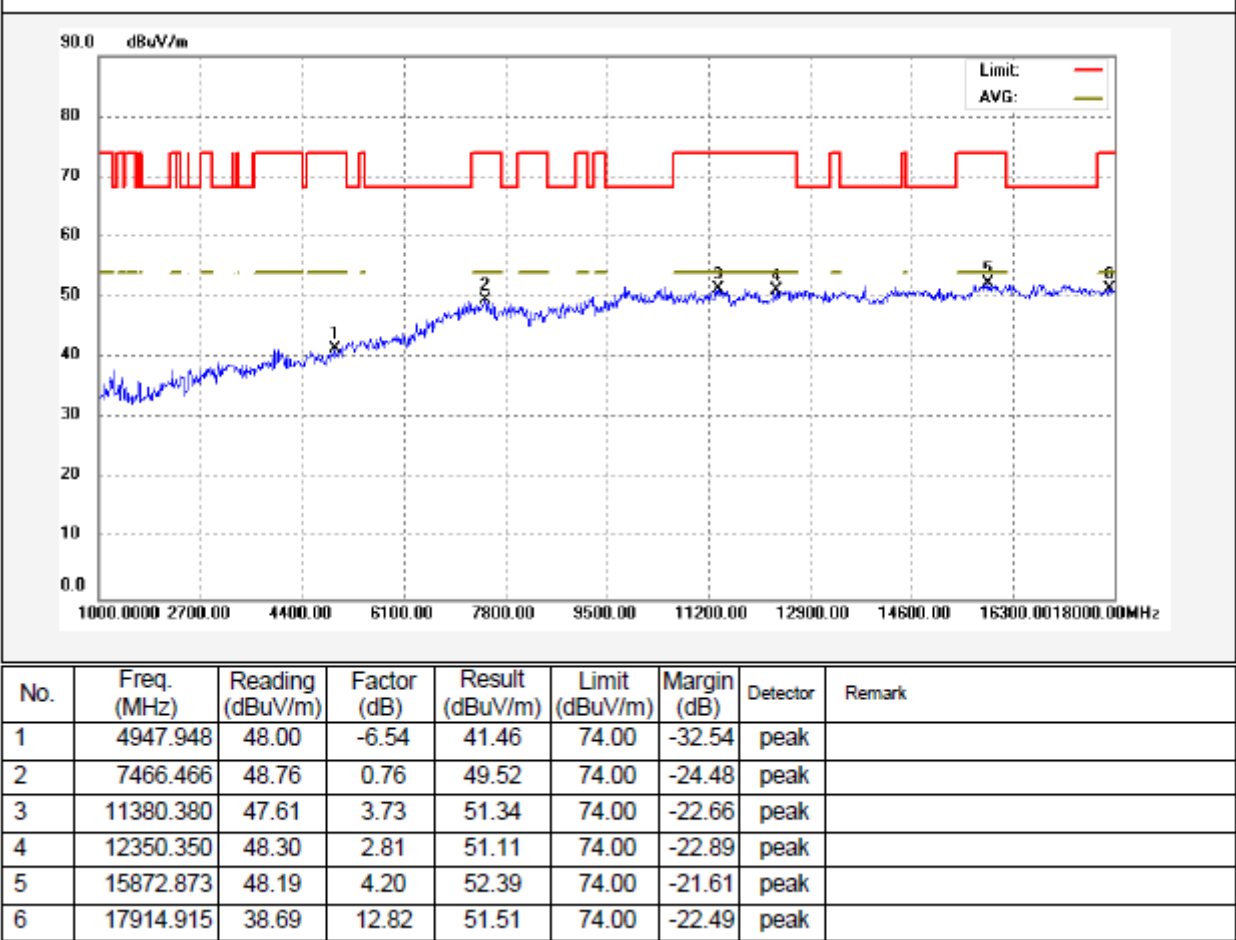


U-NII-3
Low:

Antenna Polarization: Horizontal

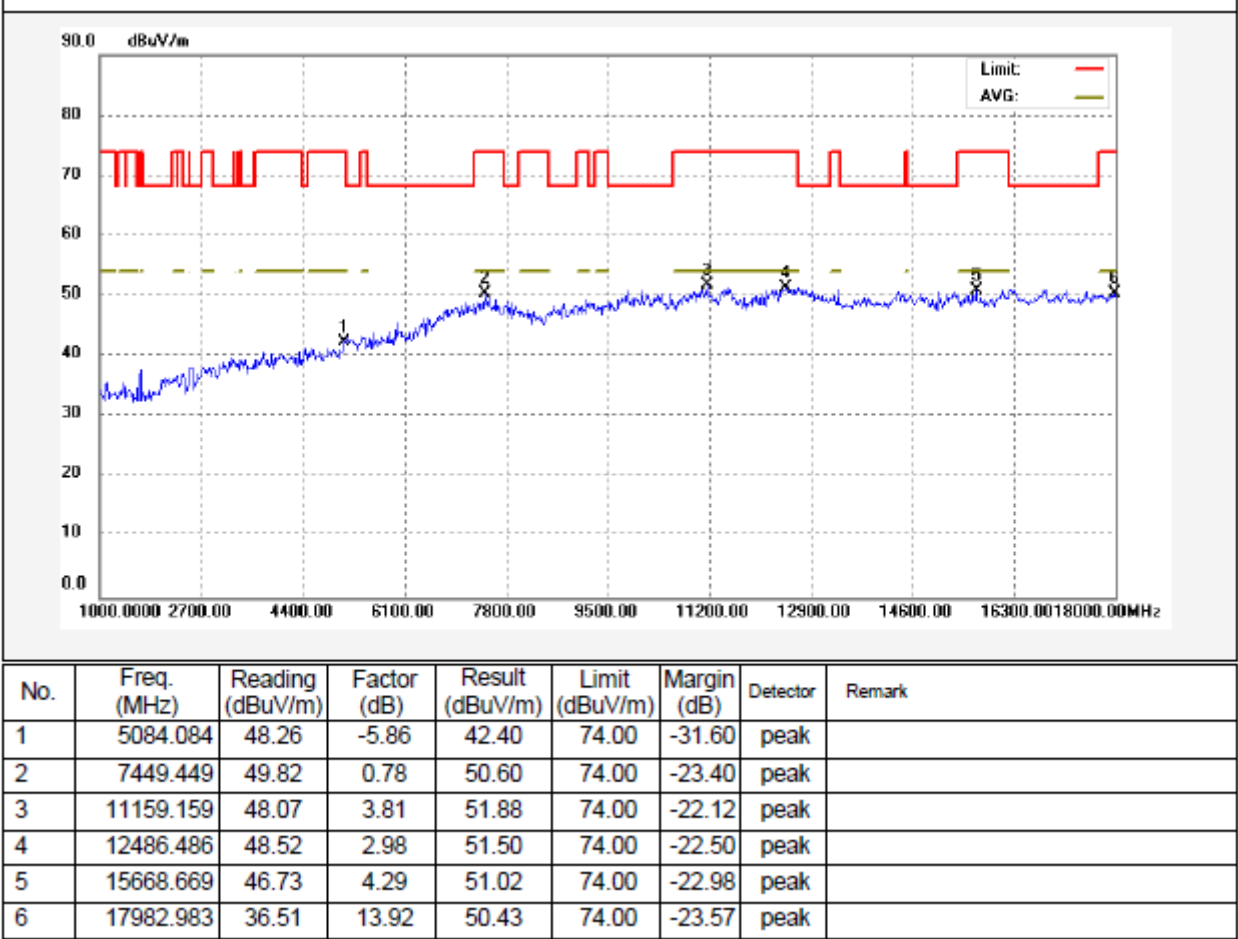


Antenna Polarization: Vertical

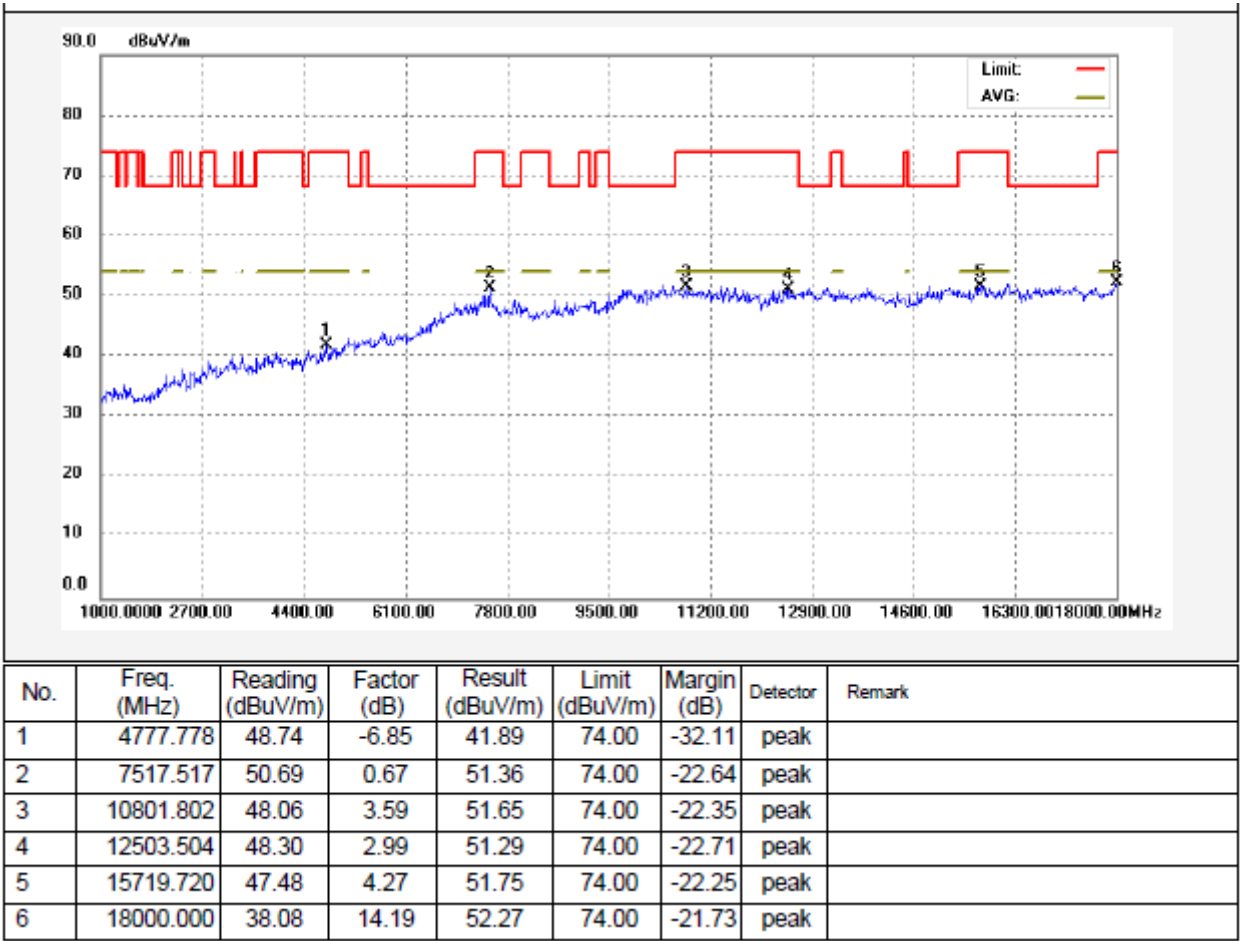


Middle:

Antenna Polarization: Horizontal

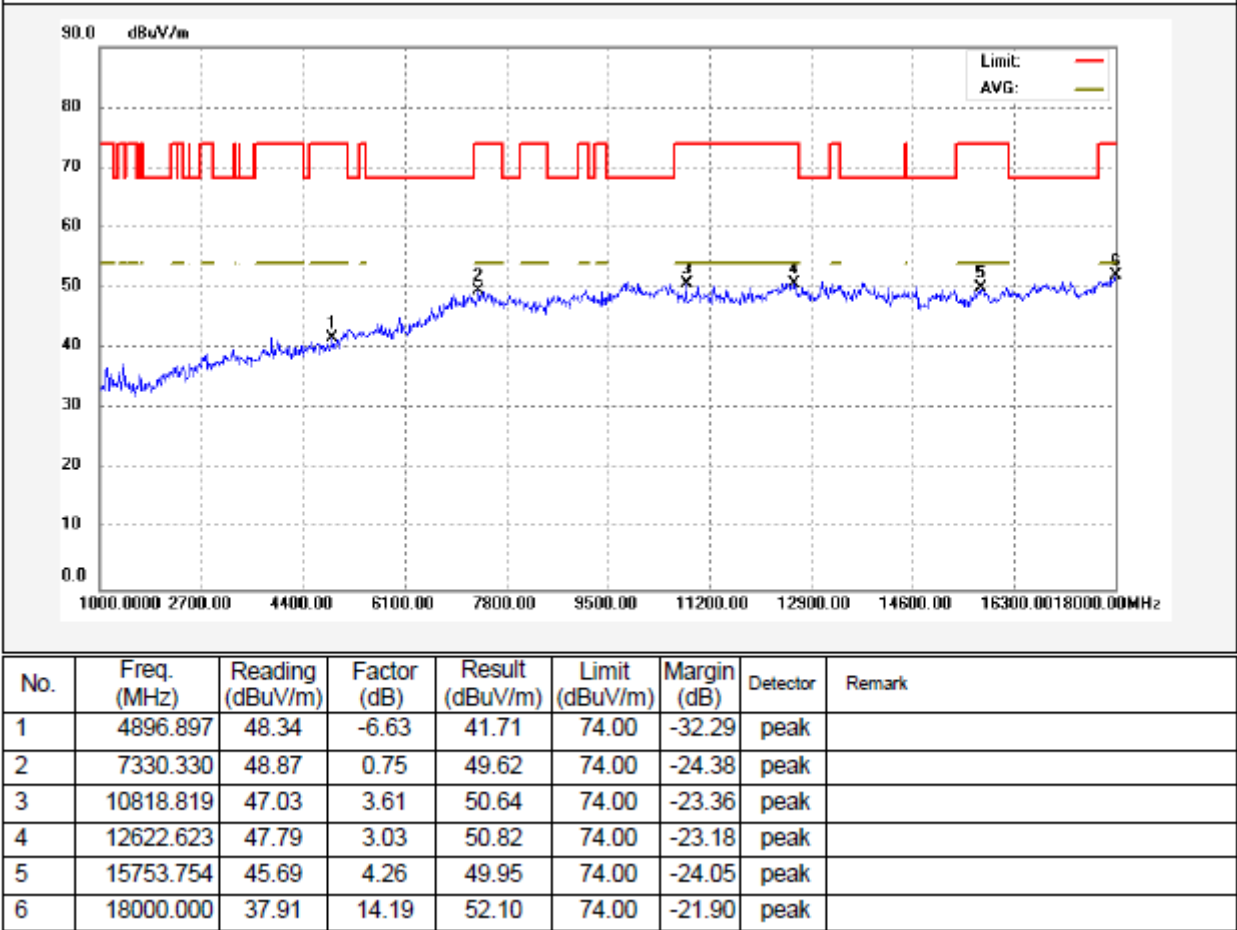


Antenna Polarization: Vertical

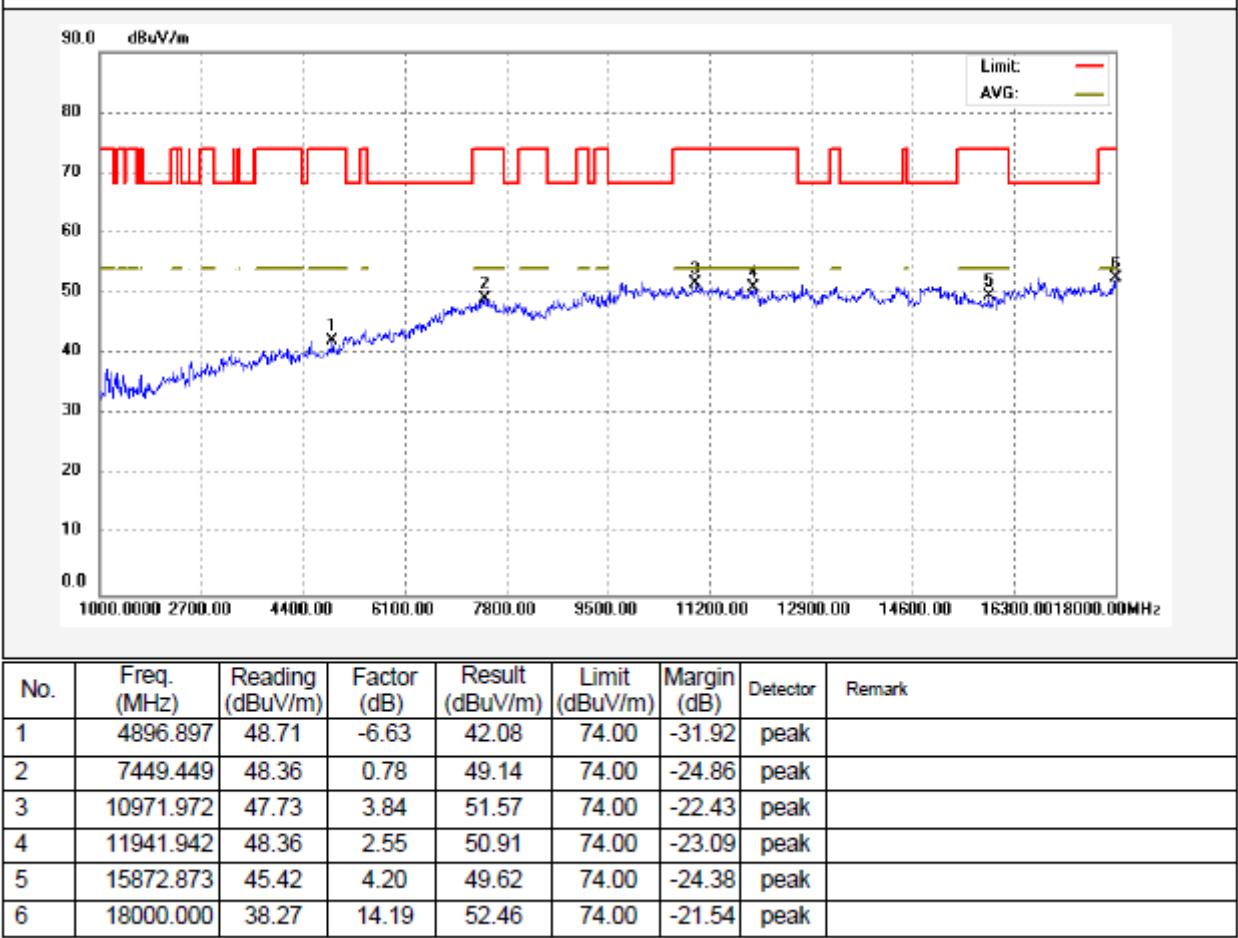


High:

Antenna Polarization: Horizontal



Antenna Polarization: Vertical



Test Frequency: 18GHz~40GHz

The measurements were more than 20 dB below the limit and not reported.

10 Band Edge

Test Requirement:	FCC 47CFR Part 15 Section 15.407
Test Method:	ANSI C63.10-2020
Test Limit:	For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27dBm/MHz. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. For transmitters operating in the 5.725-5.85 GHz band: (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
Test Result:	PASS

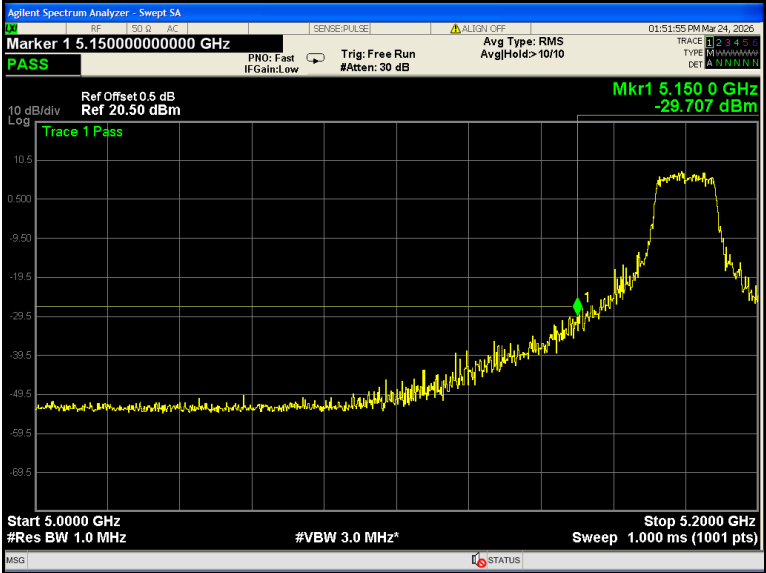
10.1 Test Produce

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. To convert the conducted power to EIRP as required by FCC 15.407, calculate and apply a Reference Level Offset or Correction factor table in the spectrum analyzer:
 Path Loss: Measure the loss of the cable and any external attenuators set into Reference Level Offset.
 Antenna Gain (G): Determine the maximum directional gain of the antenna in dBi.
 MIMO/Beamforming: If the EUT supports multiple outputs, calculate the Directional Gain according to KDB 662911, set Directional Antenna Gain (dBi) into Correction factor table.
 Follow the procedures specified in KDB Publication 662911 adjusting emission levels measured on individual outputs by $10\log(N_{ANT})$, where N_{ANT} is the number of outputs, set $10\log(N_{ANT})$, into Correction factor table.
4. Set RBW to 1000 kHz and VBW of spectrum analyzer to 3000 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
5. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
6. Repeat above procedures until all measured frequencies were complete.

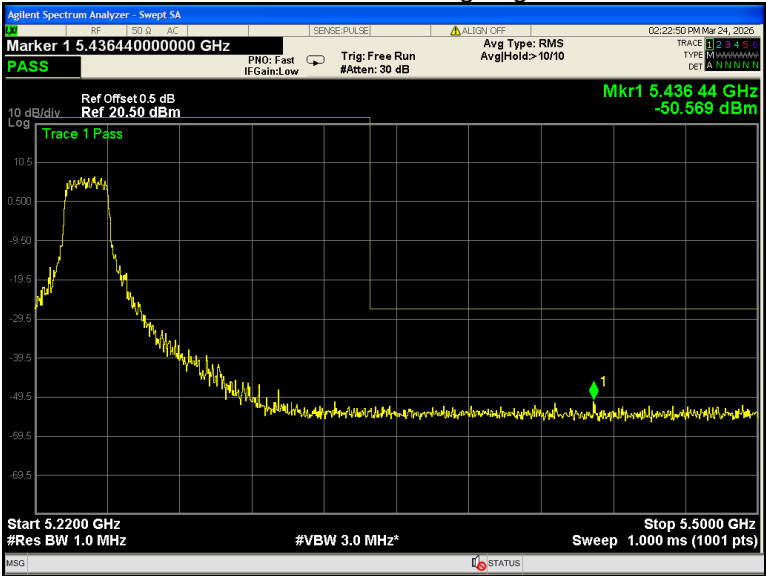
10.2 Test Result

Test result plots shown as follows:

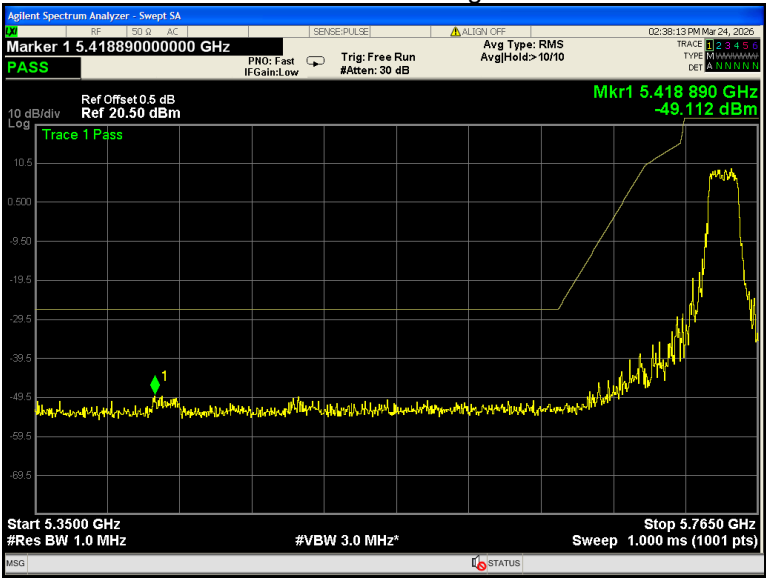
802.11a U-NII-1 Band edge-left side



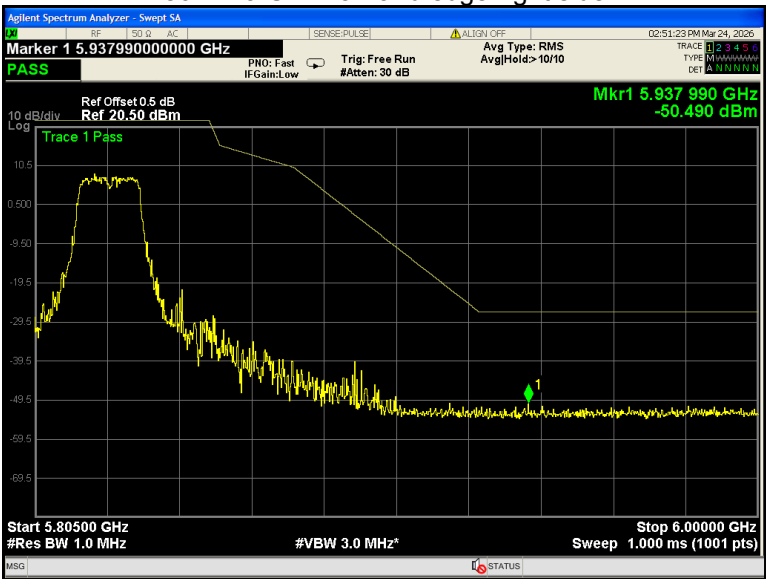
802.11a U-NII-1 Band edge-right side



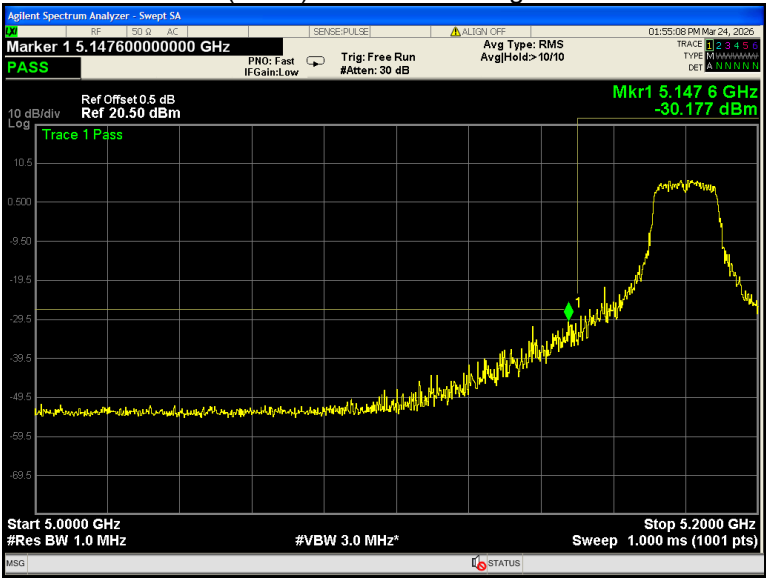
802.11a U-NII-3 Band edge-left side



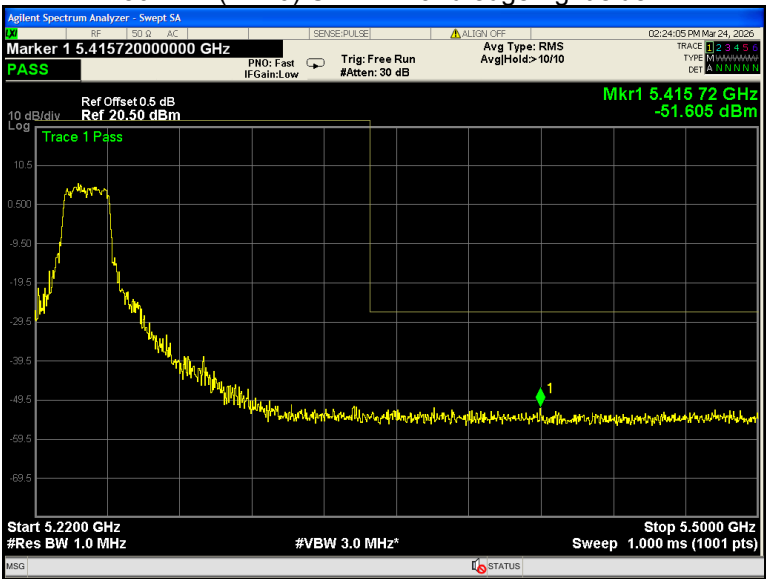
802.11a U-NII-3 Band edge-right side



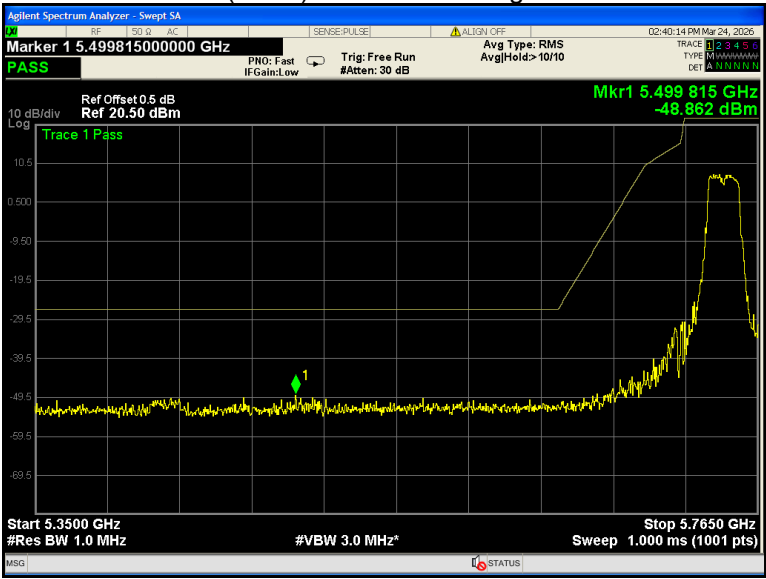
802.11n(HT20) U-NII-1 Band edge-left side



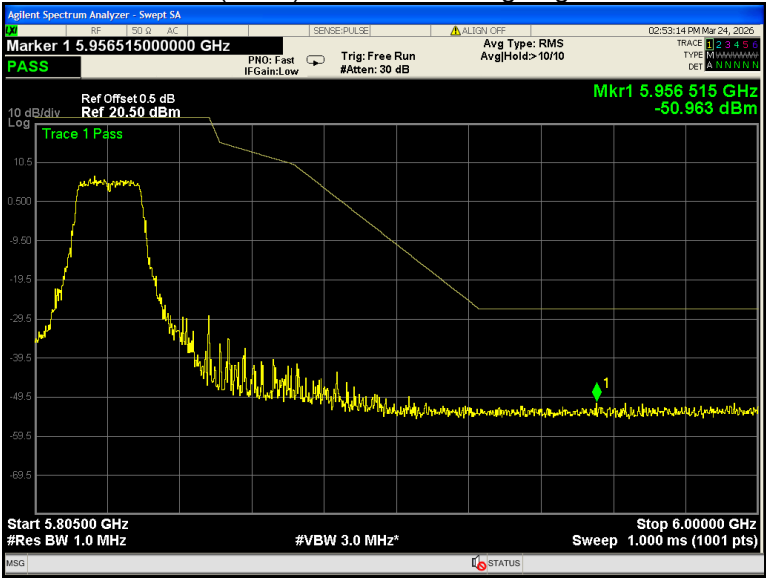
802.11n(HT20) U-NII-1 Band edge-right side



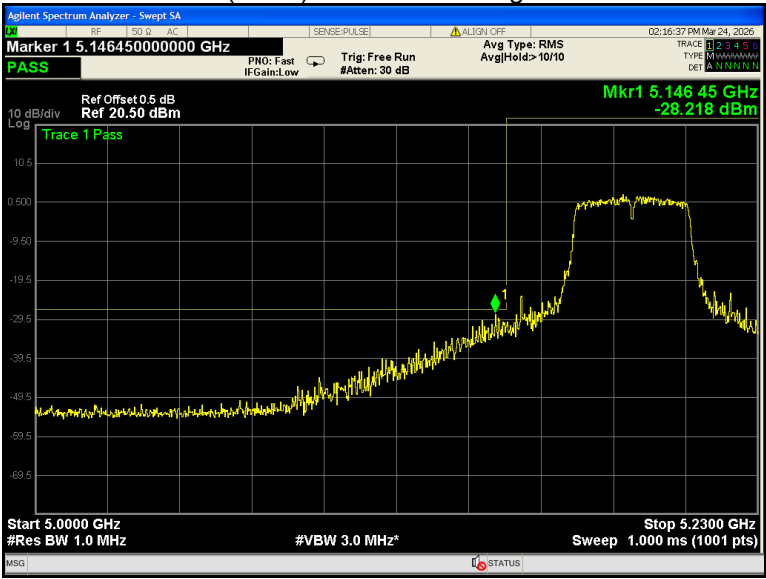
802.11n(HT20) U-NII-3 Band edge-left side



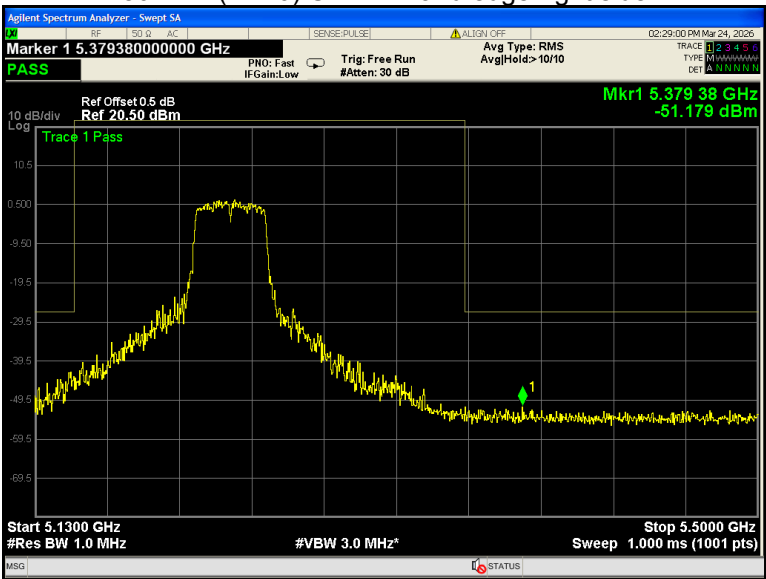
802.11n(HT20) U-NII-3 Band edge-right side



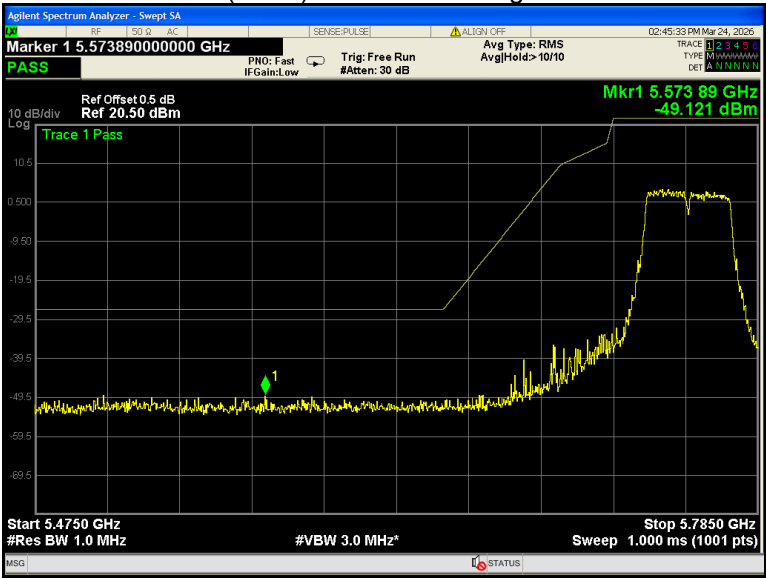
802.11n(HT40) U-NII-1 Band edge-left side



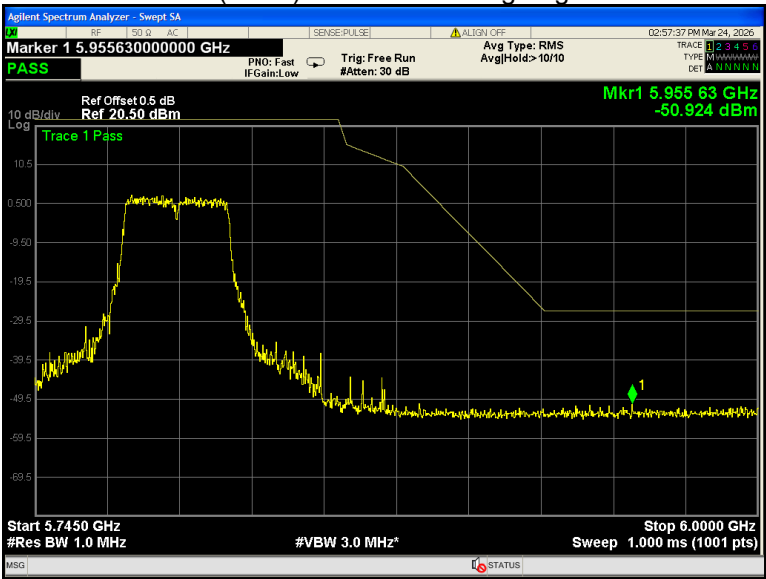
802.11n(HT40) U-NII-1 Band edge-right side



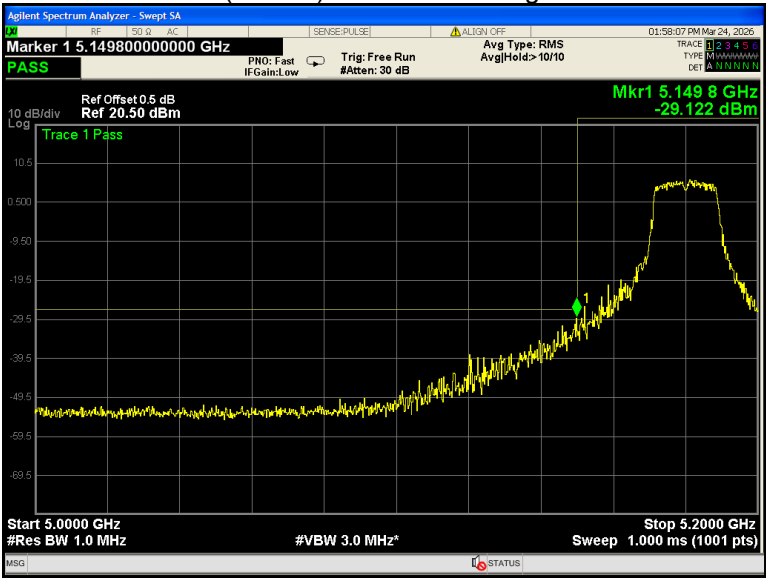
802.11n(HT40) U-NII-3 Band edge-left side



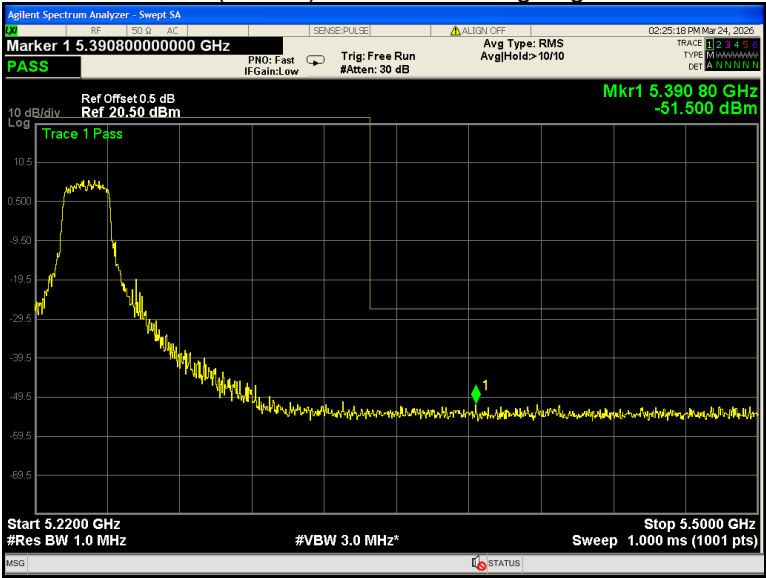
802.11n(HT40) U-NII-3 Band edge-right side



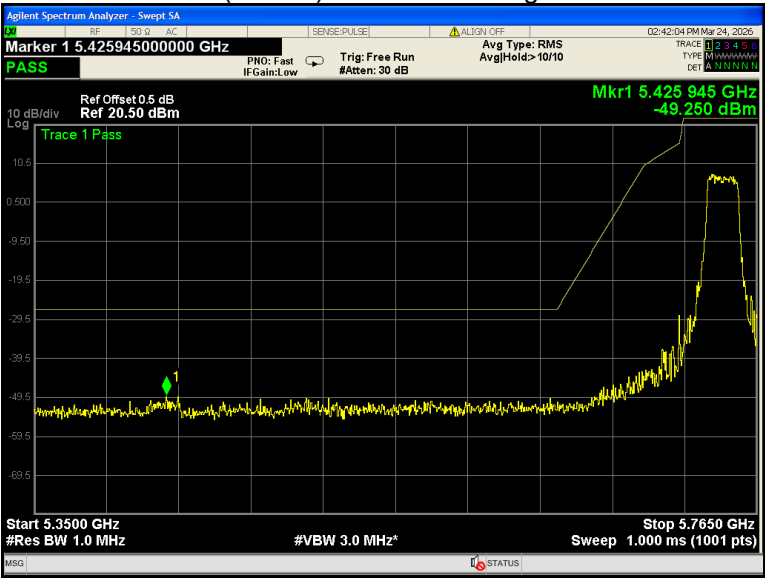
802.11ac(VHT20) U-NII-1 Band edge-left side



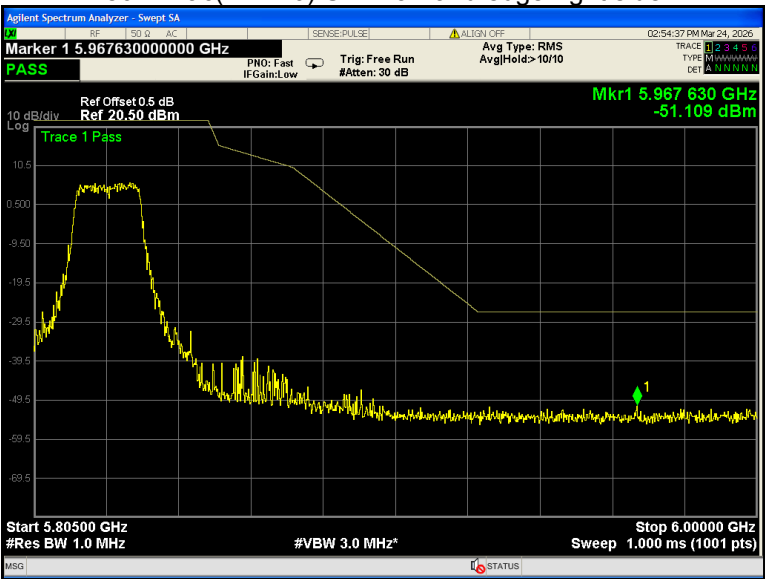
802.11ac(VHT20) U-NII-1 Band edge-right side



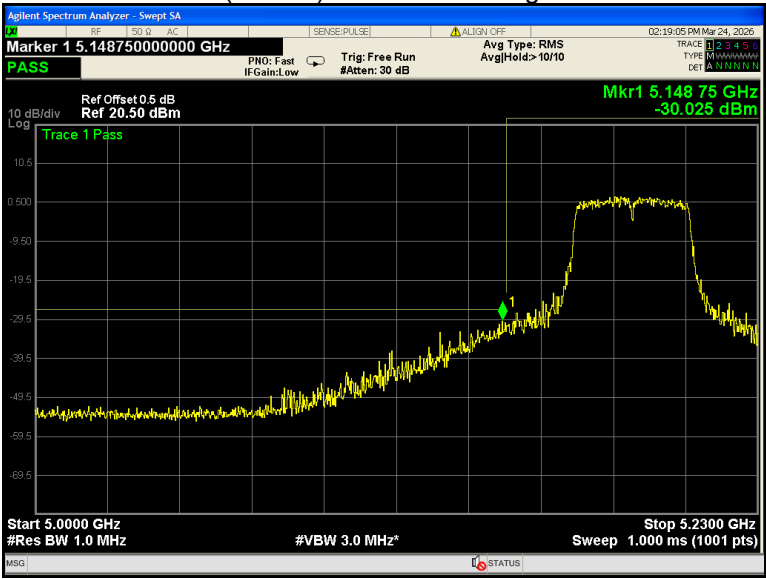
802.11ac(VHT20) U-NII-3 Band edge-left side



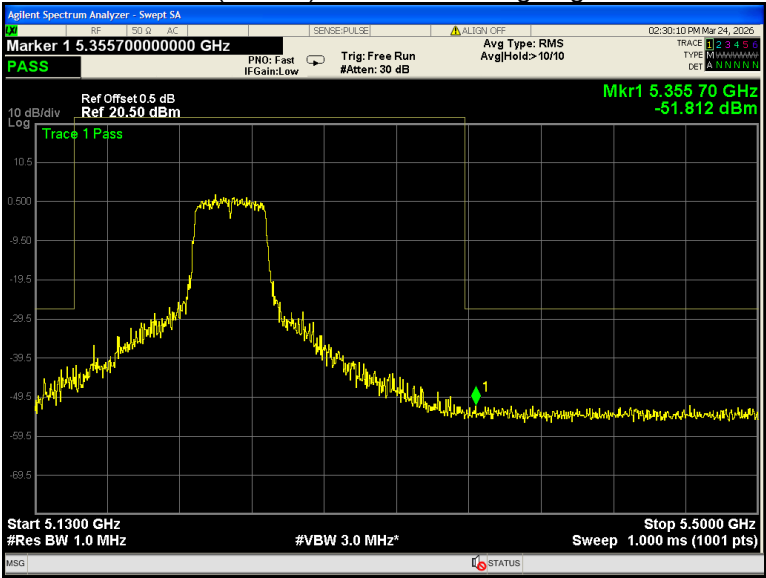
802.11ac(VHT20) U-NII-3 Band edge-right side



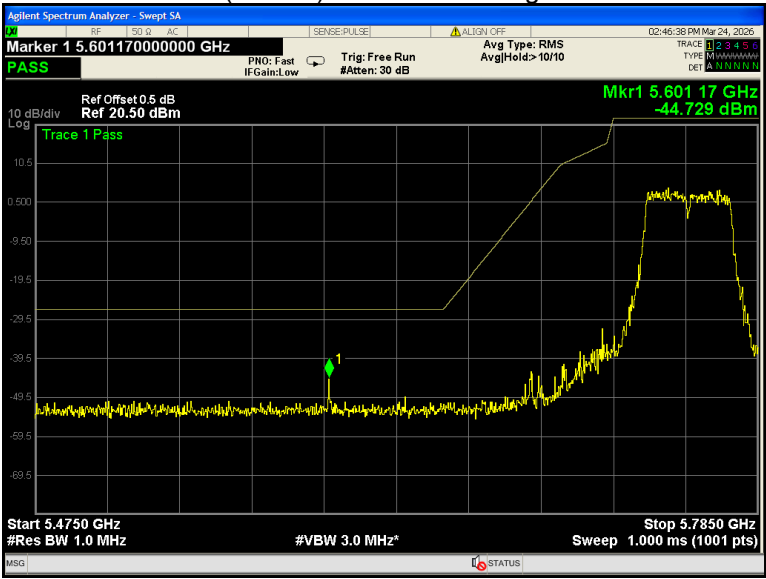
802.11ac(VHT40) U-NII-1 Band edge-left side



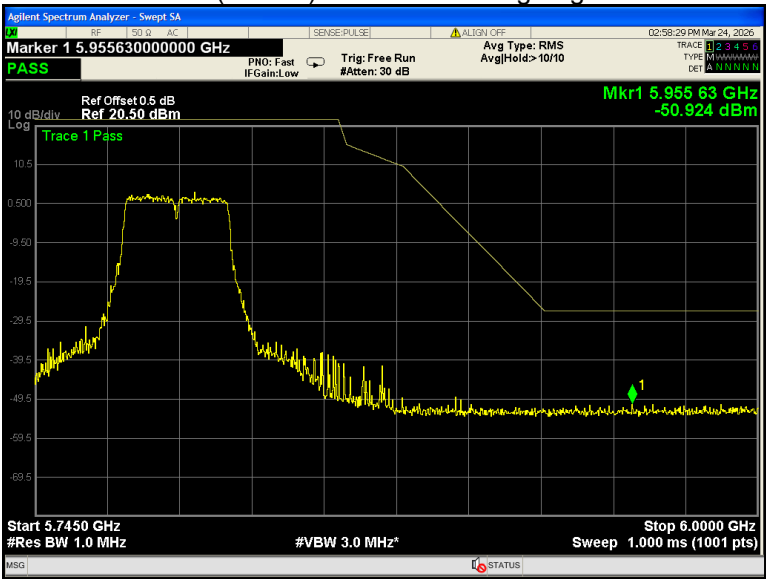
802.11ac(VHT40) U-NII-1 Band edge-right side



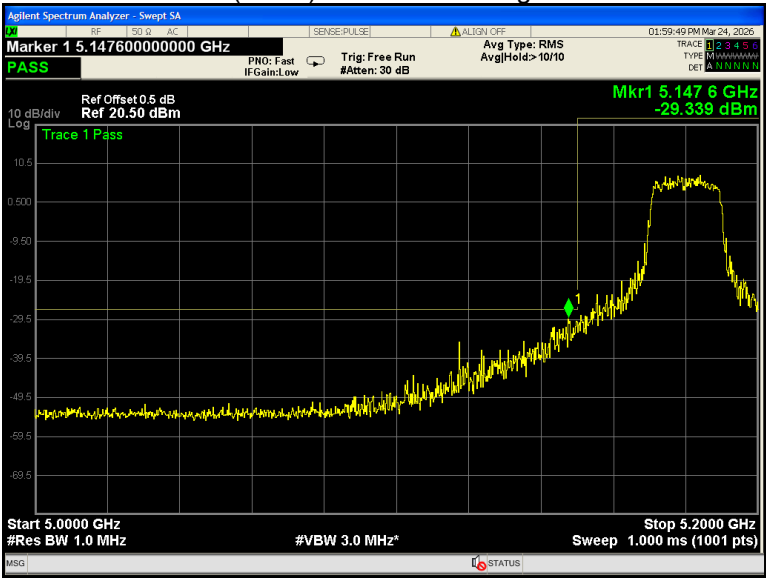
802.11ac(VHT40) U-NII-3 Band edge-left side



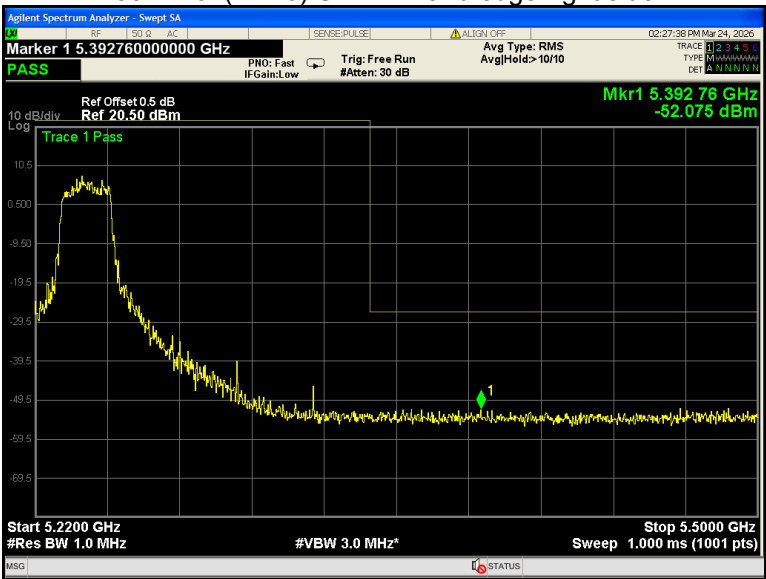
802.11ac(VHT40) U-NII-3 Band edge-right side



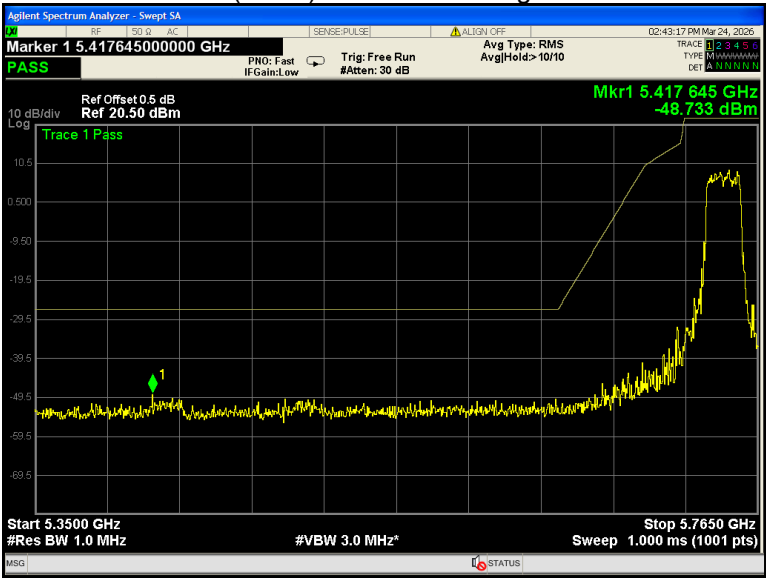
802.11ax(HE20) U-NII-1 Band edge-left side



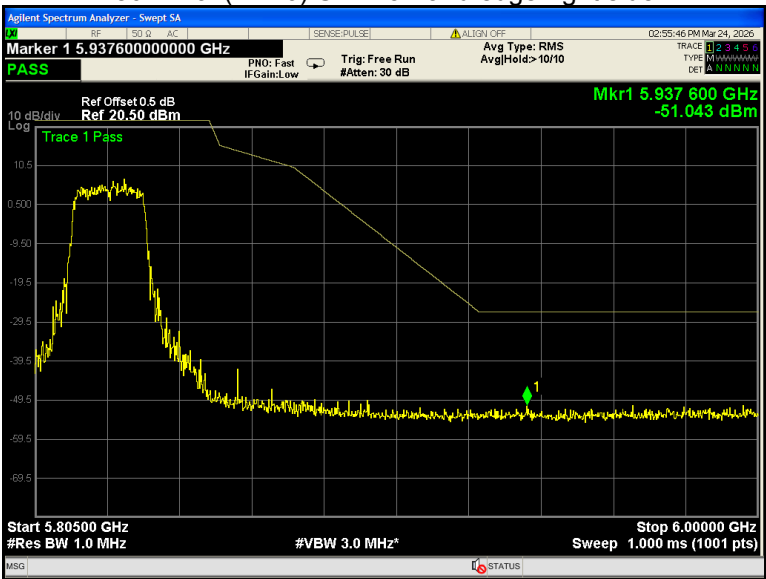
802.11ax(HE20) U-NII-1 Band edge-right side



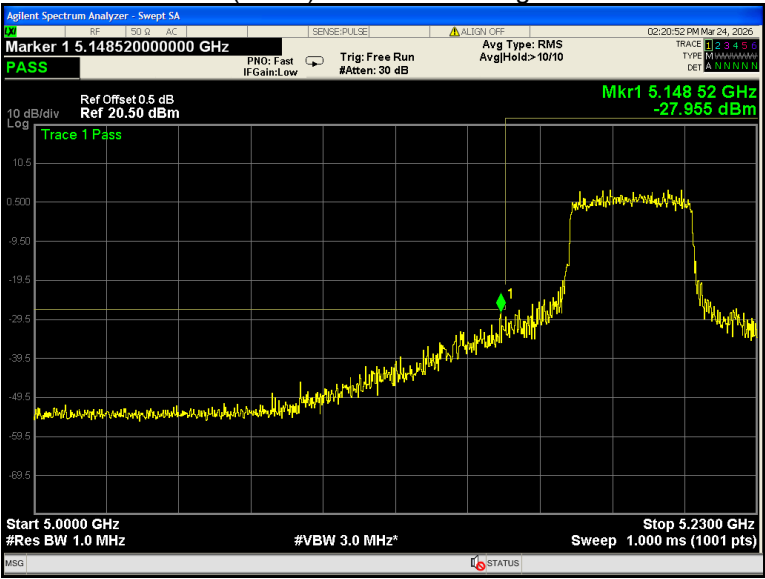
802.11ax(HE20) U-NII-3 Band edge-left side



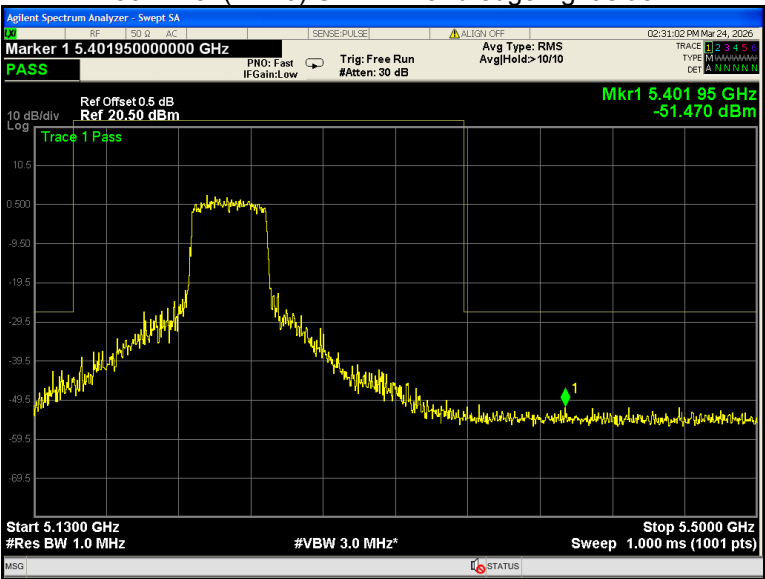
802.11ax(HE20) U-NII-3 Band edge-right side



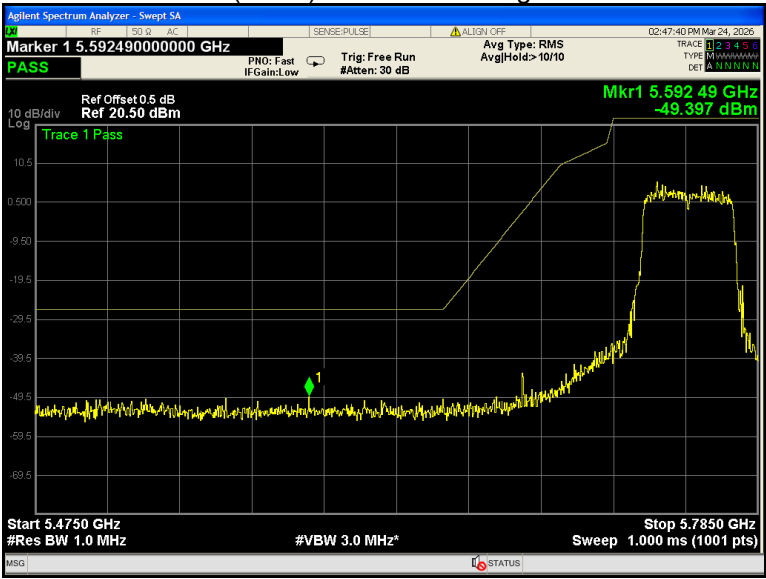
802.11ax(HE40) U-NII-1 Band edge-left side



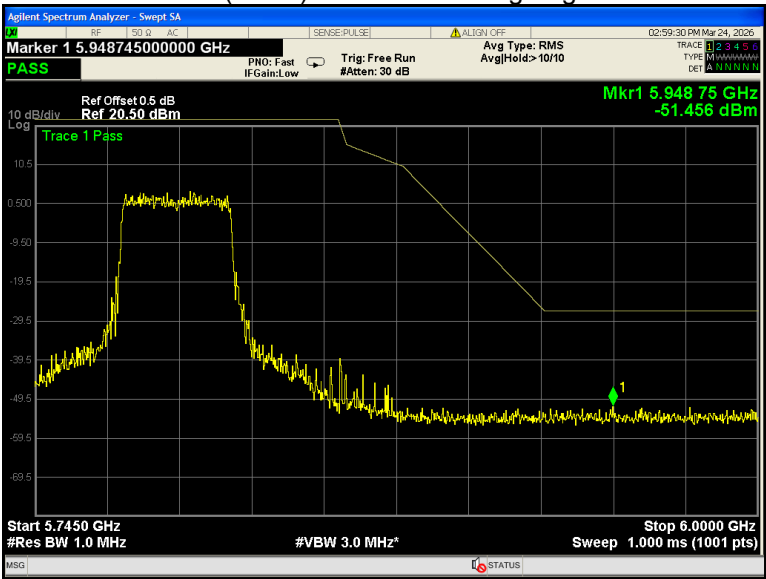
802.11ax(HE40) U-NII-1 Band edge-right side



802.11ax(HE40) U-NII-3 Band edge-left side



802.11ax(HE40) U-NII-3 Band edge-right side



11 6 dB Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407(e) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section C
Test Limit:	≥ 500 kHz
Test Result:	PASS

11.1 Test Procedure

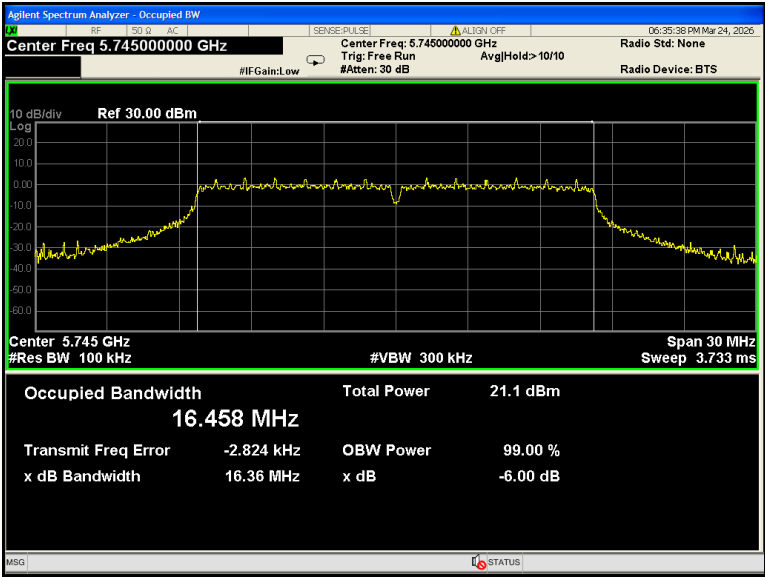
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

11.2 Test Result

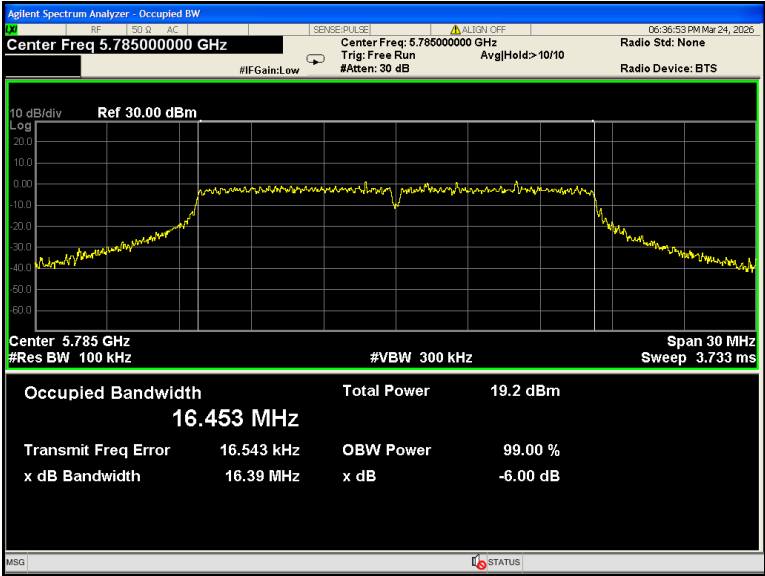
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.36	16.39	16.33
	802.11n(HT20)	17.56	17.57	17.58
	802.11n(HT40)	36.39	/	36.37
	802.11ac(VHT20)	17.56	17.57	17.62
	802.11ac(VHT40)	36.41	/	36.34
	802.11ax(HE20)	18.60	18.64	18.14
	802.11ax(HE40)	36.71	/	37.71

Test result plots shown as follows:

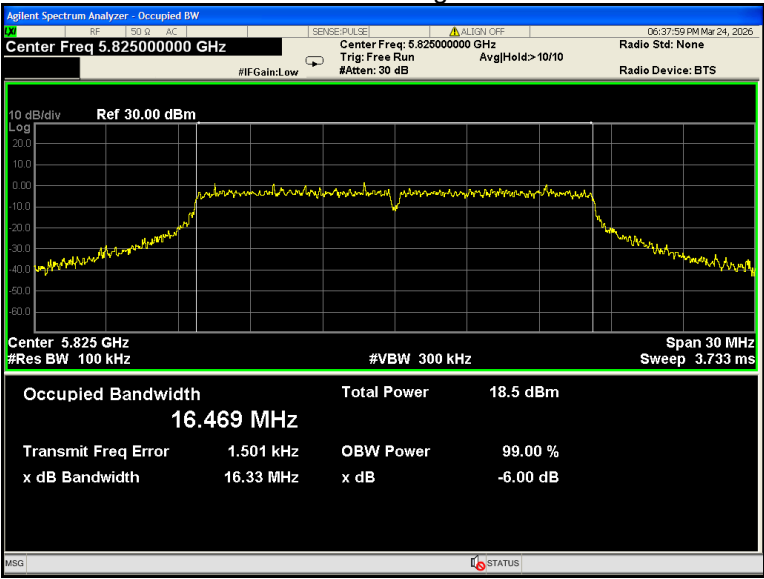
802.11a U-NII-3 Low channel



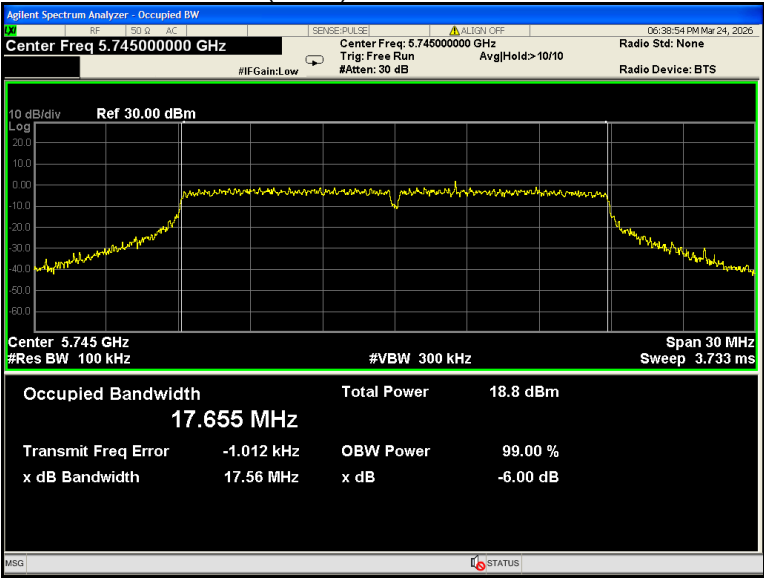
802.11a U-NII-3 Middle channel



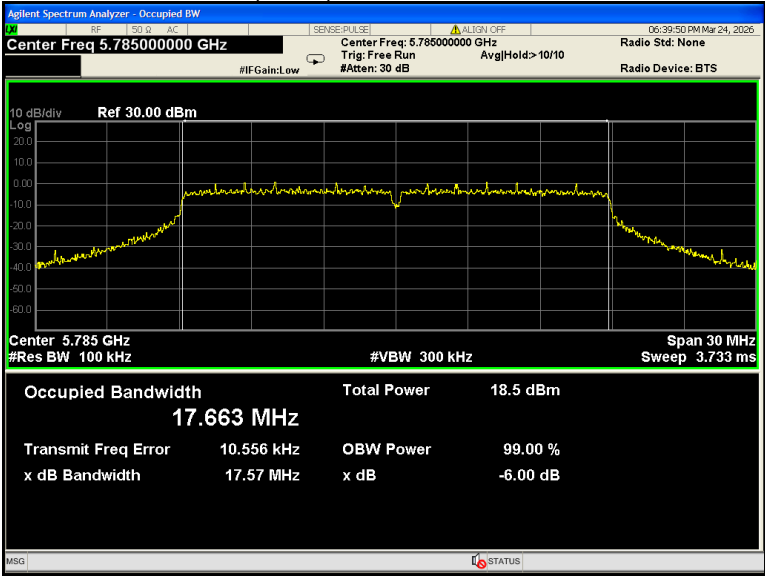
802.11a U-NII-3 High channel



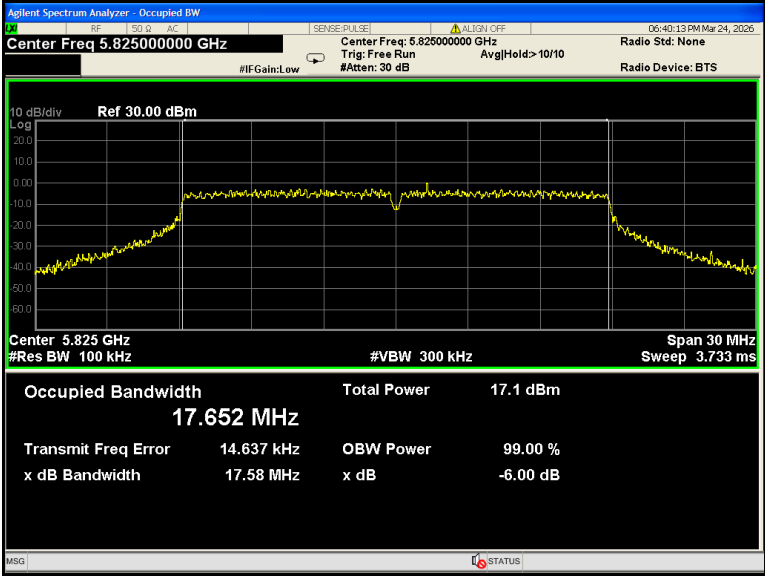
802.11n(HT20) U-NII-3 Low channel



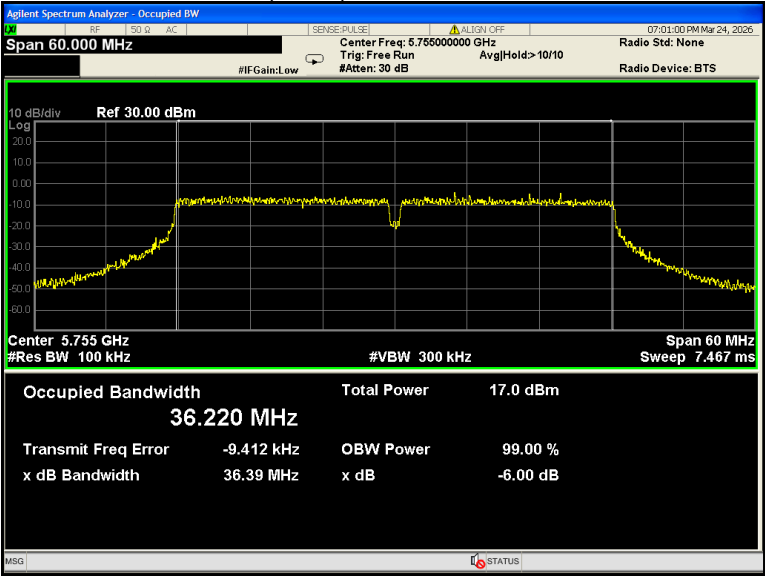
802.11n(HT20) U-NII-3 Middle channel



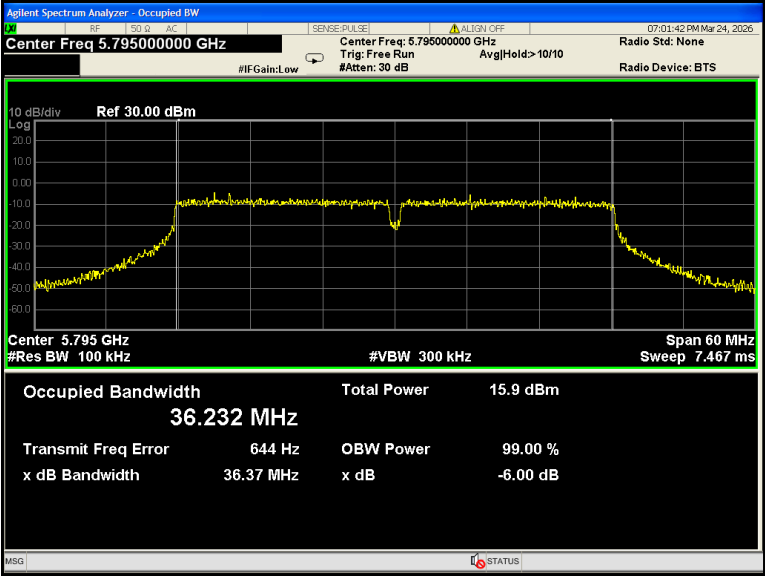
802.11n(HT20) U-NII-3 High channel



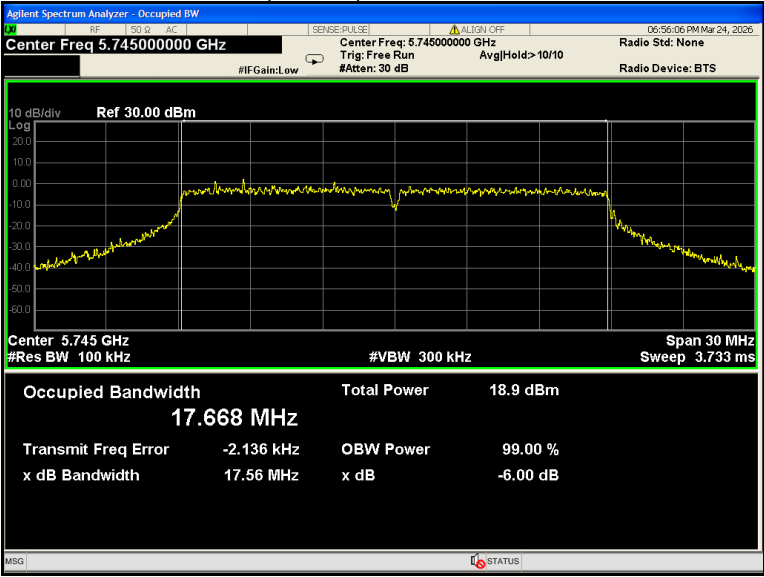
802.11n(HT40) U-NII-3 Low channel



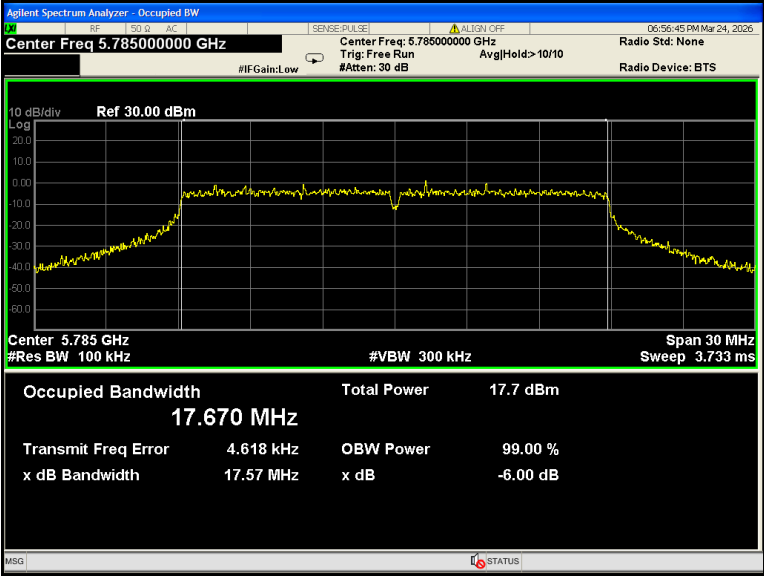
802.11n(HT40) U-NII-3 High channel



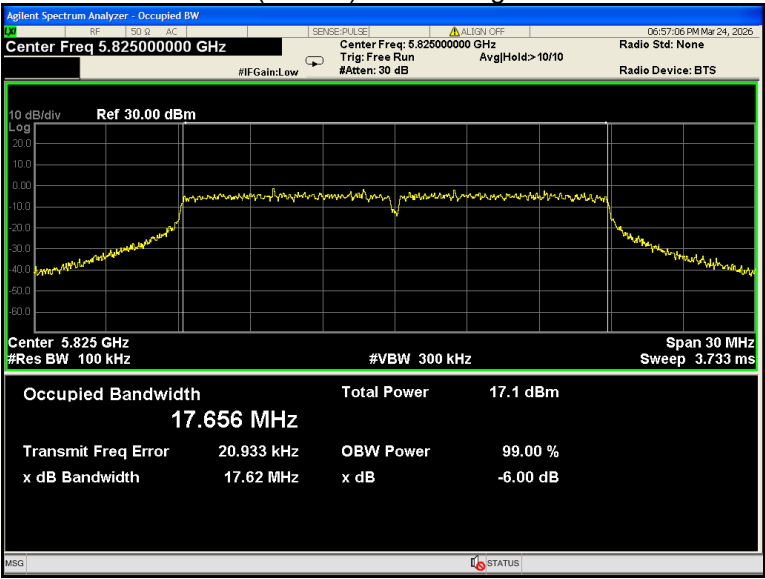
802.11ac(VHT20) U-NII-3 Low channel



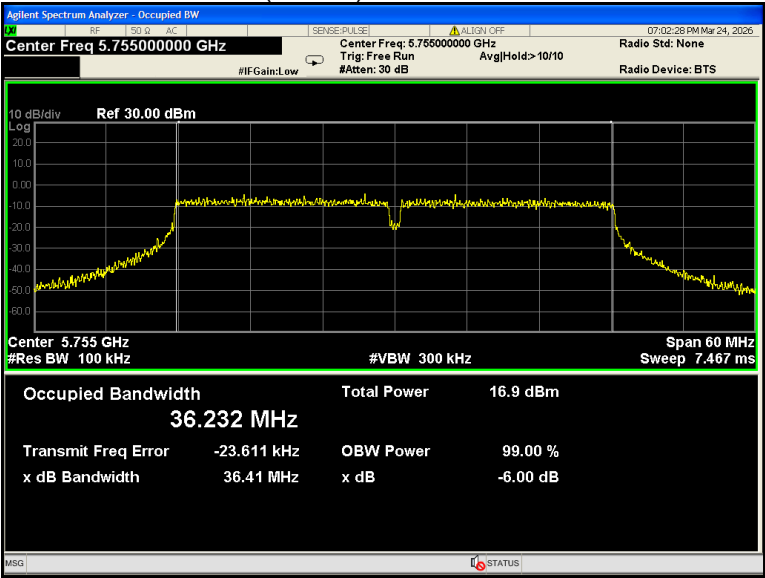
802.11ac(VHT20) -NII-3 Middle channel



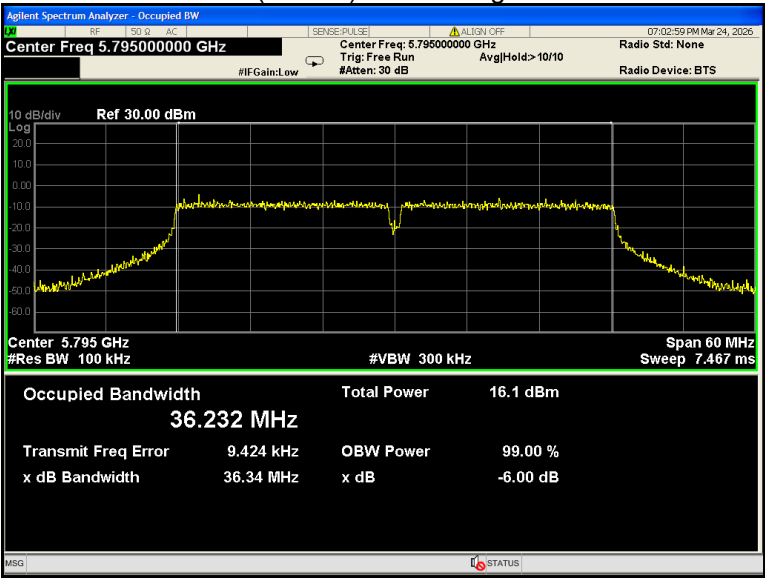
802.11ac(VHT20) U-NII-3 High channel



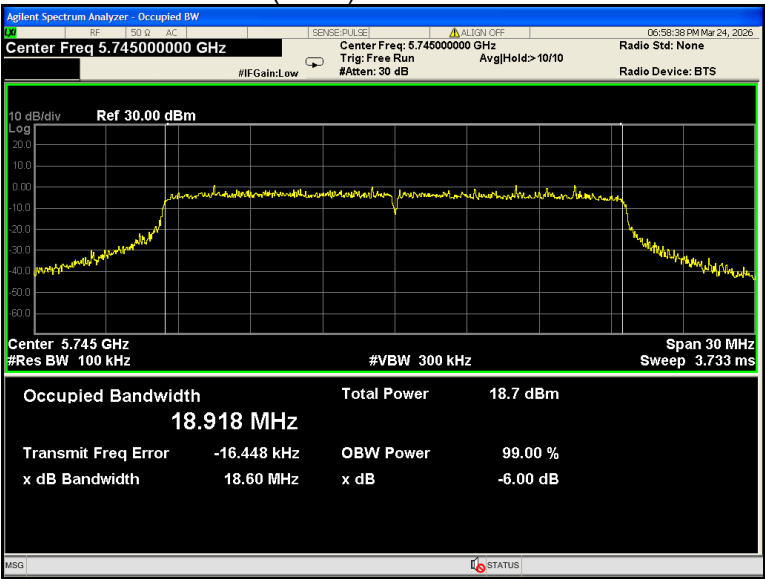
802.11ac(VHT40) U-NII-3 Low channel



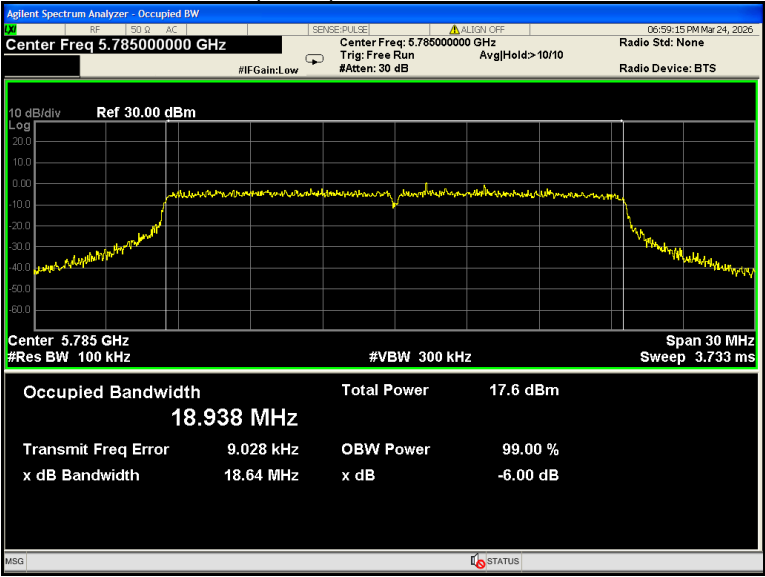
802.11ac(VHT40) U-NII-3 High channel



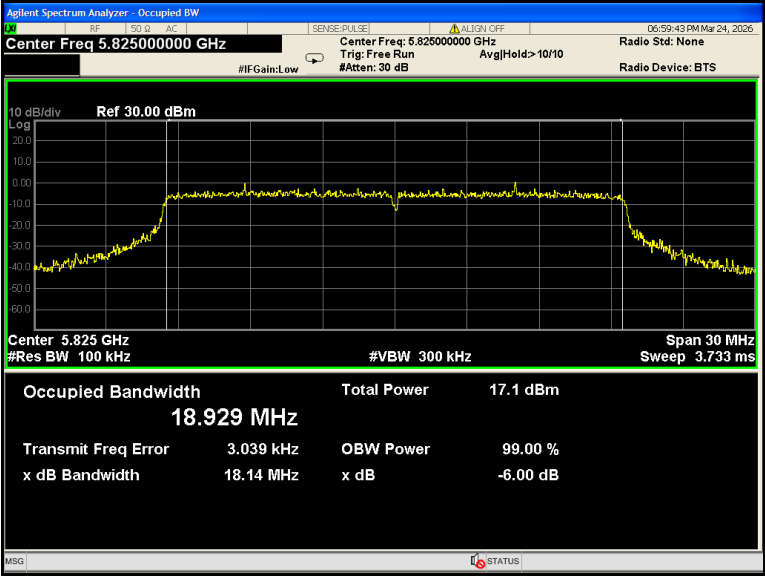
802.11ax(HE20) U-NII-3 Low channel



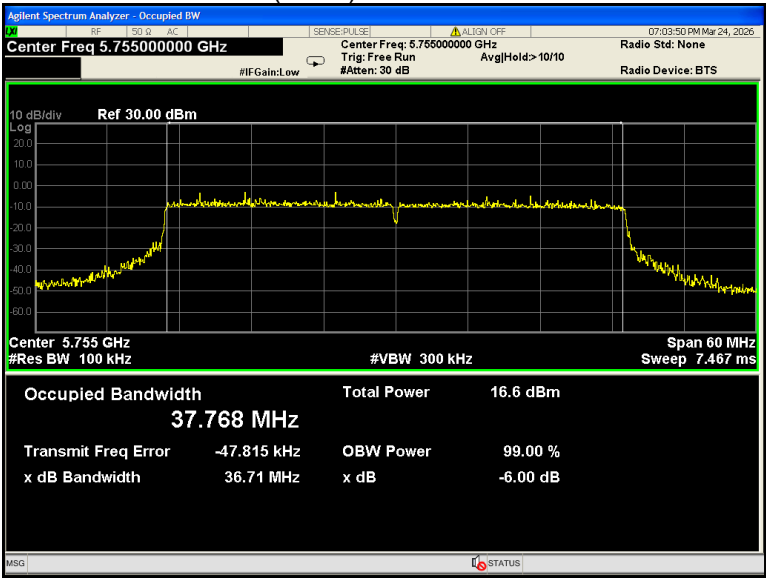
802.11ax(HE20) U-NII-3 Middle channel



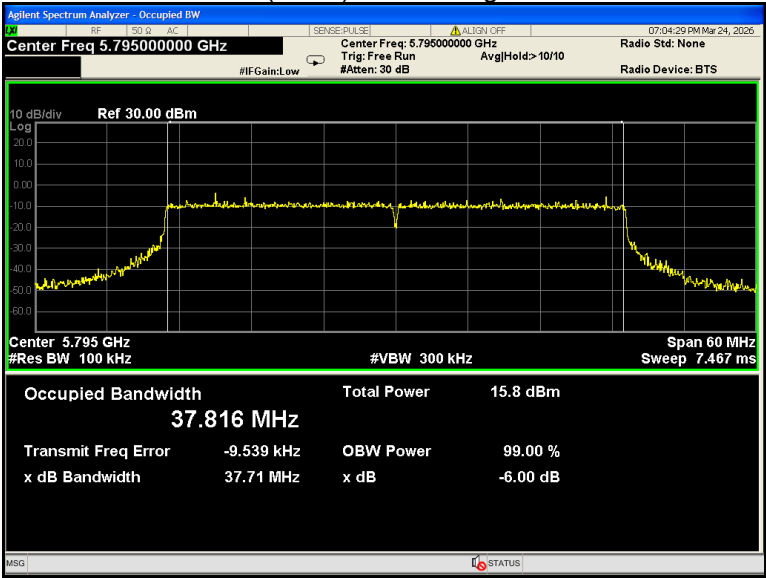
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



12 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407 (a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section D
Test Limit:	No restriction limits
Test Result:	PASS

12.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 1% to 5% of the OBW, VBW = 3x RBW

12.2 Test Result

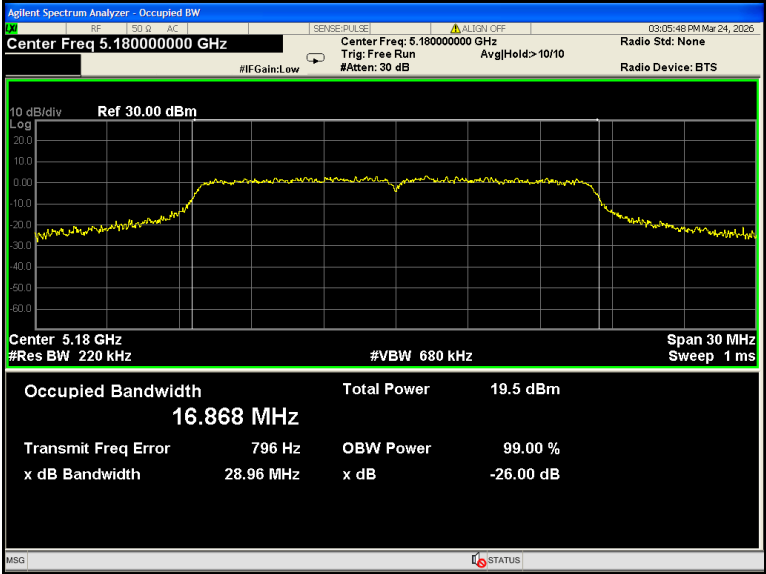
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	28.96	26.43	24.87	16.868	16.740	16.714
	802.11n(HT20)	25.41	27.06	24.53	17.870	17.903	17.855
	802.11n(HT40)	49.71	/	50.59	36.337	/	36.418
	802.11ac(VHT20)	26.66	26.82	25.22	17.882	17.845	17.864
	802.11ac(VHT40)	46.34	/	46.04	36.348	/	36.396
	802.11ax(HE20)	25.53	23.55	23.31	19.037	19.028	18.999
	802.11ax(HE40)	43.75	/	43.32	37.806	/	37.840

Band	Operation mode	99% Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	16.527	16.587	16.619
	802.11n(HT20)	17.778	17.796	17.793
	802.11n(HT40)	36.402	/	36.343
	802.11ac(VHT20)	17.793	17.783	17.749
	802.11ac(VHT40)	36.355		36.399
	802.11ax(HE20)	18.947	18.970	18.952
	802.11ax(HE40)	37.908		37.938

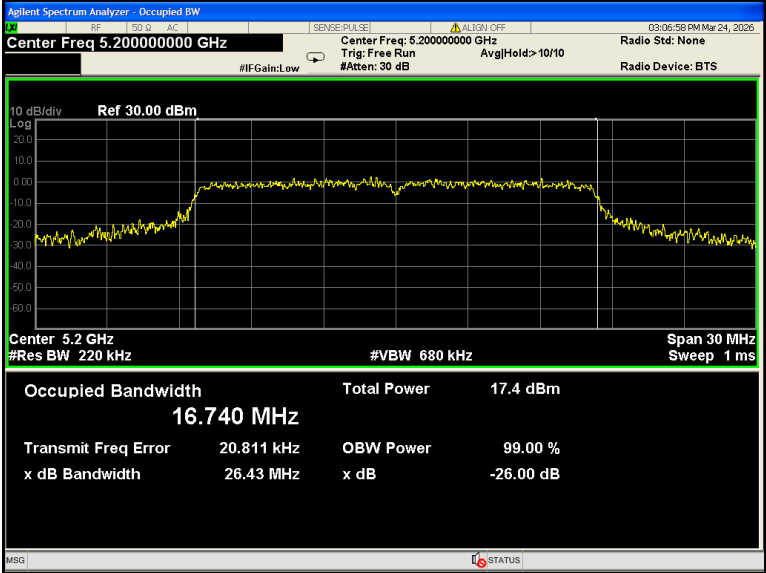
Test result plots shown as follows:

26 dB Bandwidth and 99% Occupied Bandwidth

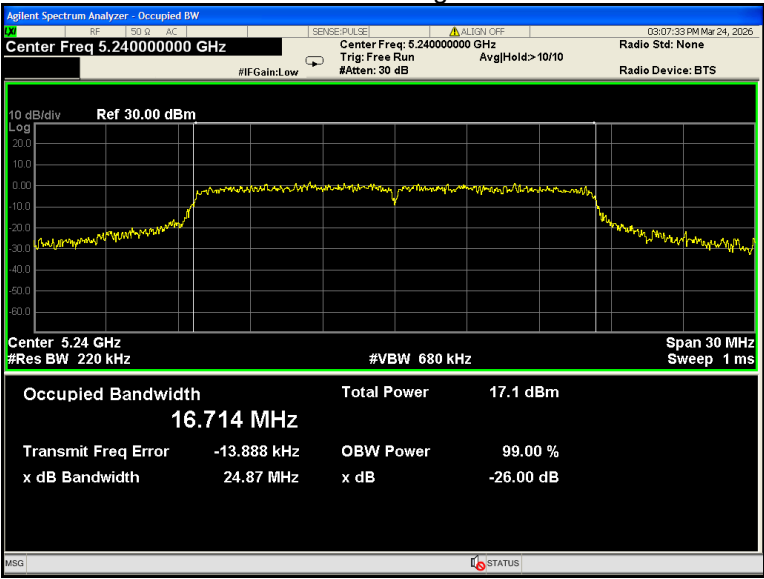
802.11a U-NII-1 Low channel



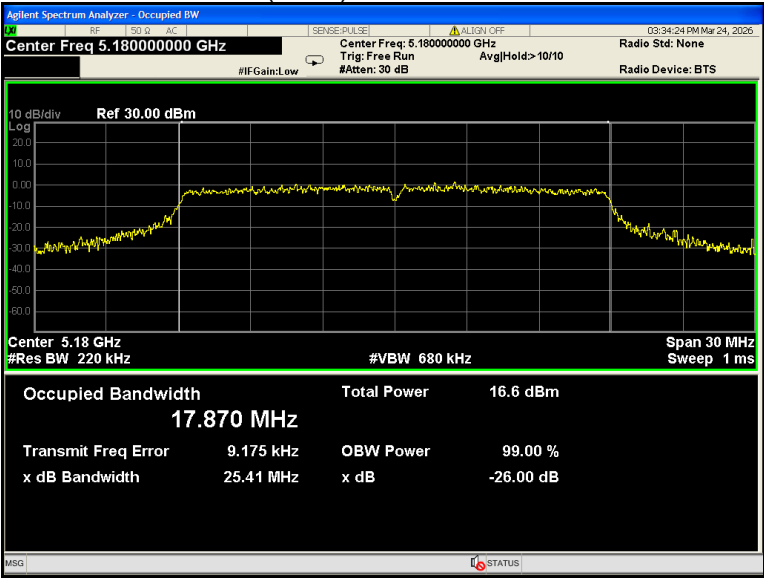
802.11a U-NII-1 Middle channel



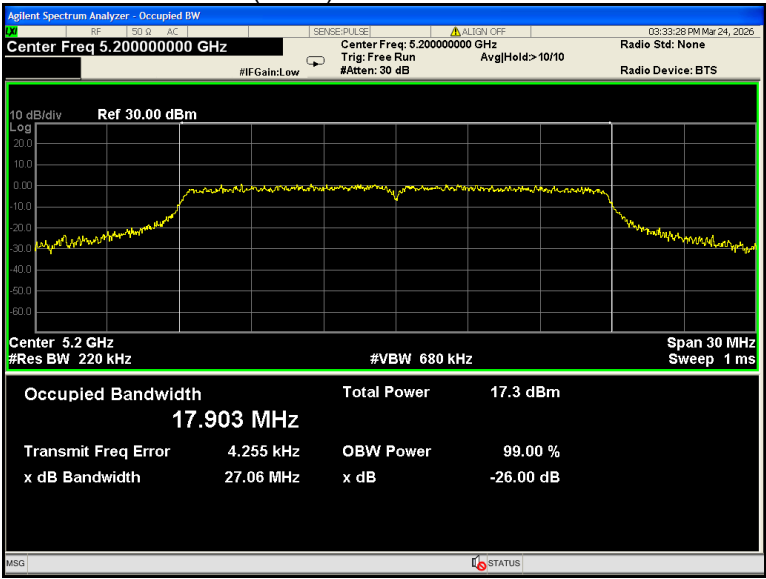
802.11a U-NII-1 High channel



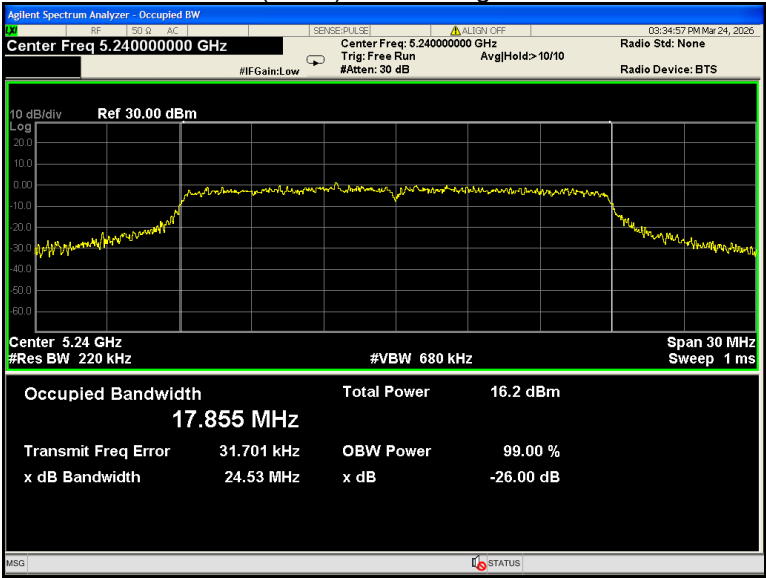
802.11n(HT20) U-NII-1 Low channel



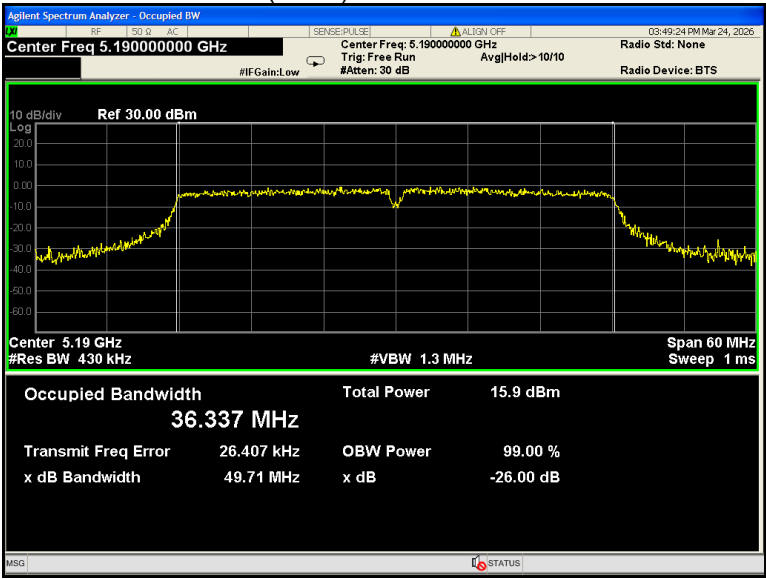
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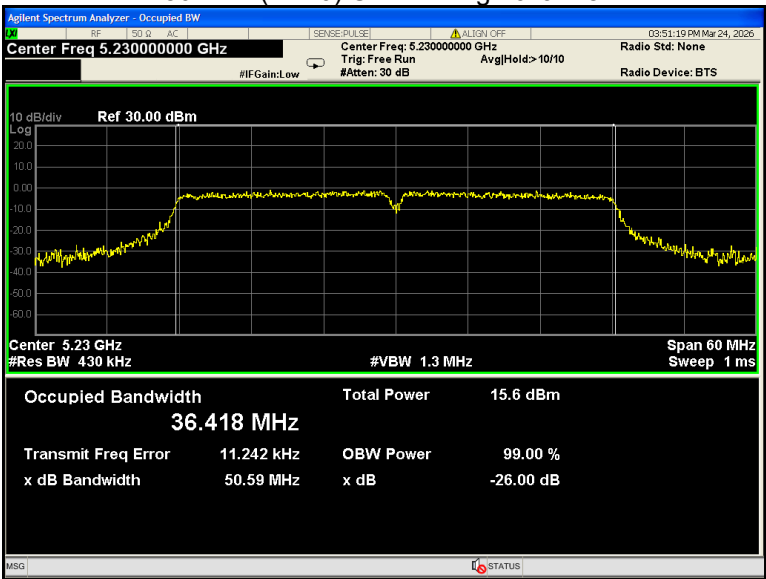
802.11n(HT20) U-NII-1 High channel



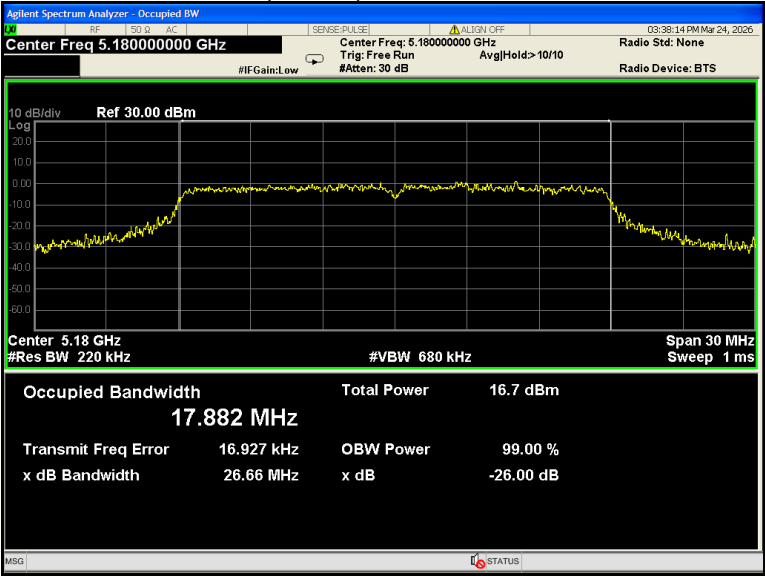
802.11n(HT40) U-NII-1 Low channel



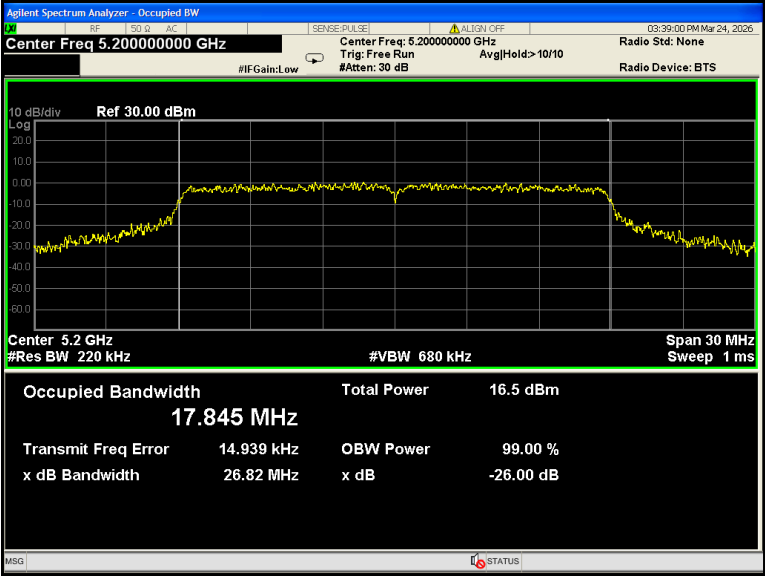
802.11n(HT40) U-NII-1 High channel



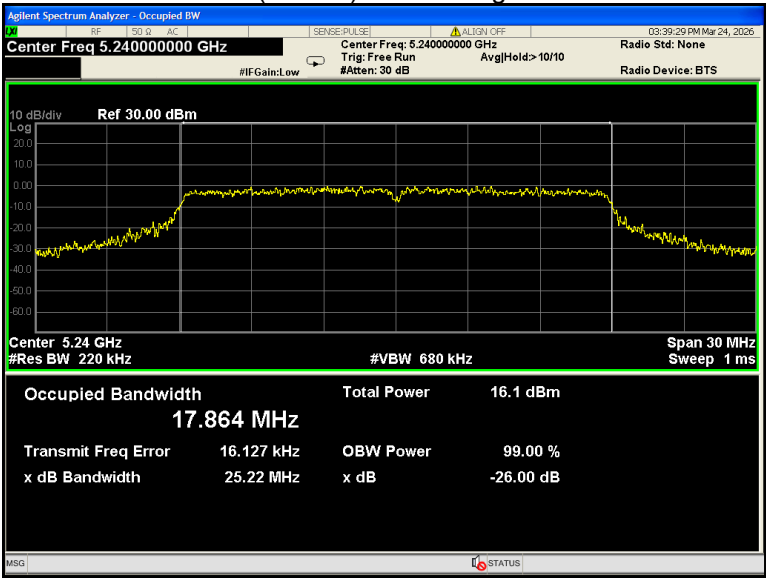
802.11ac(VHT20) U-NII-1 Low channel



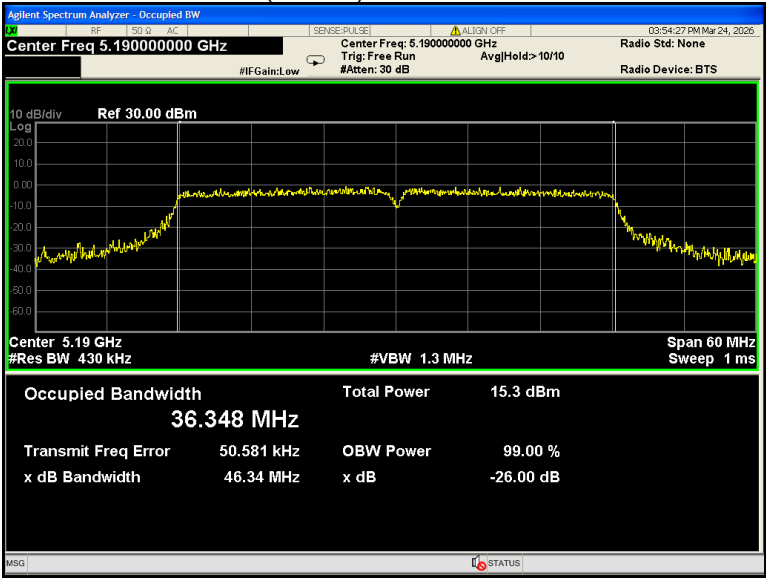
802.11ac(VHT20) U-NII-1 Middle channel



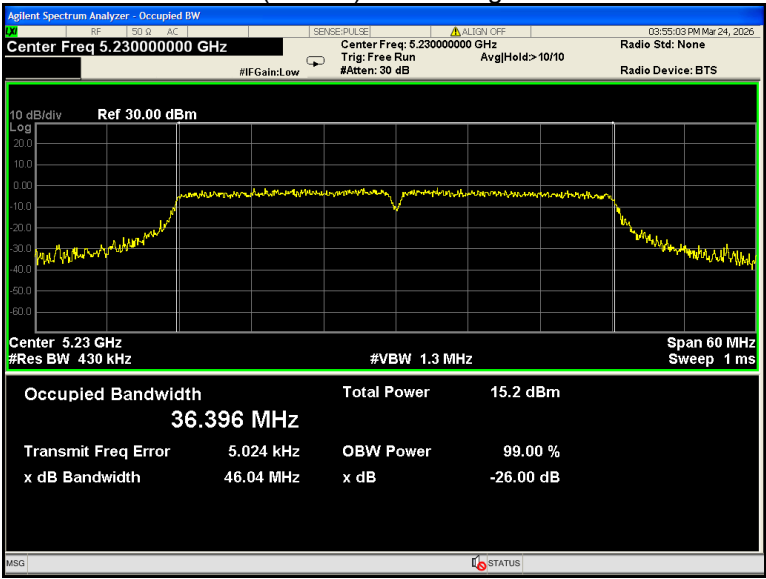
802.11ac(VHT20) U-NII-1 High channel



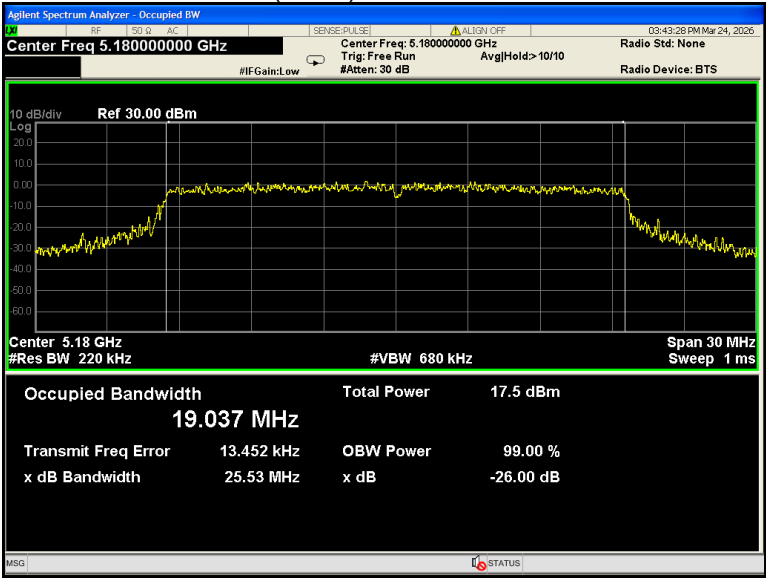
802.11ac(VHT40) U-NII-1 Low channel



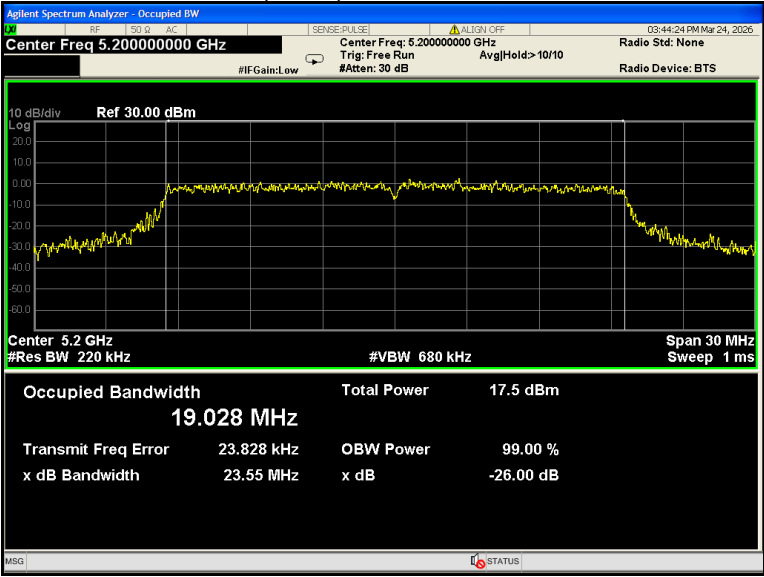
802.11ac(VHT40)U-NII-1 High channel



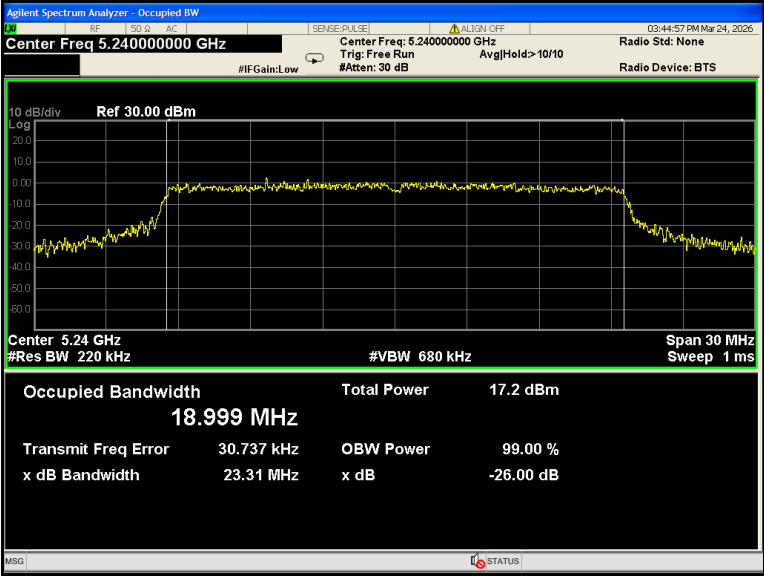
802.11ax(HE20) U-NII-1 Low channel



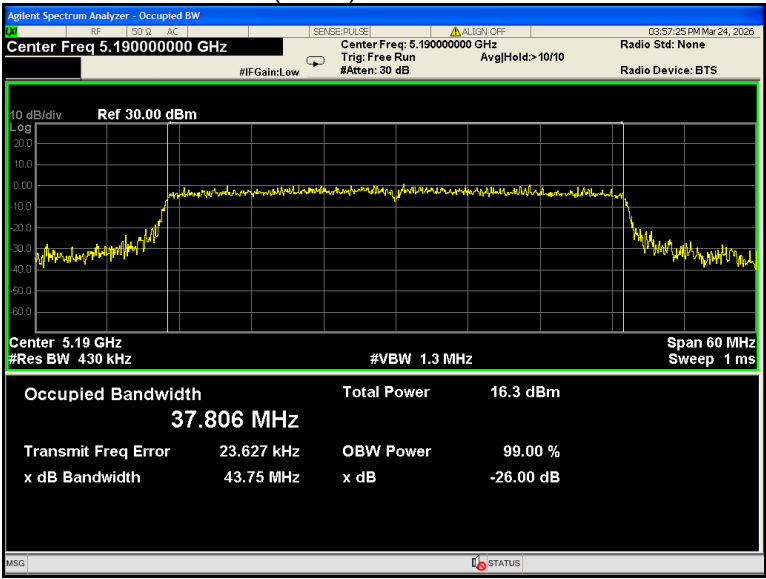
802.11ax(HE20)U-NII-1 Middle channel



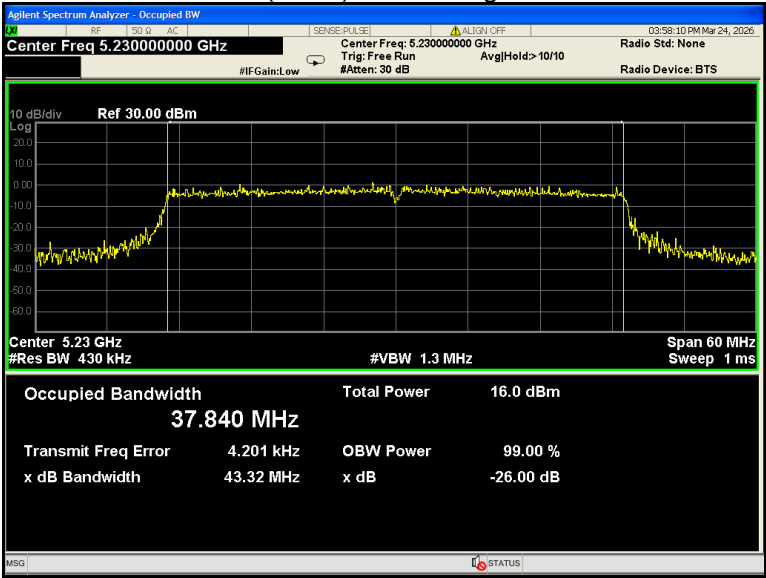
802.11ax(HE20) U-NII-1 High channel



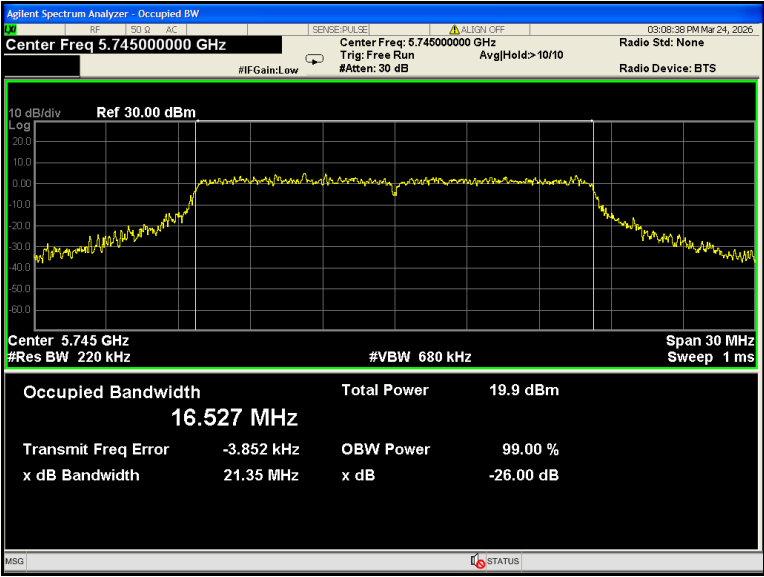
802.11ax(HE40) U-NII-1 Low channel



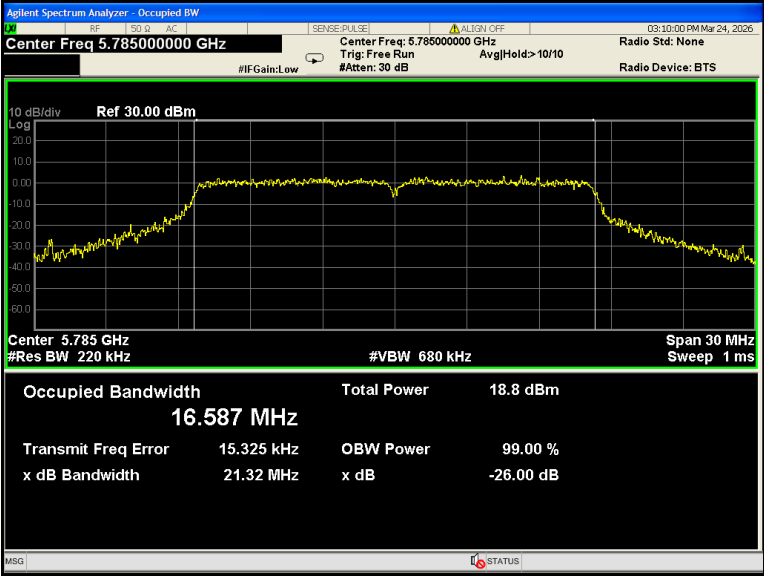
802.11ax(HE40) U-NII-1 High channel



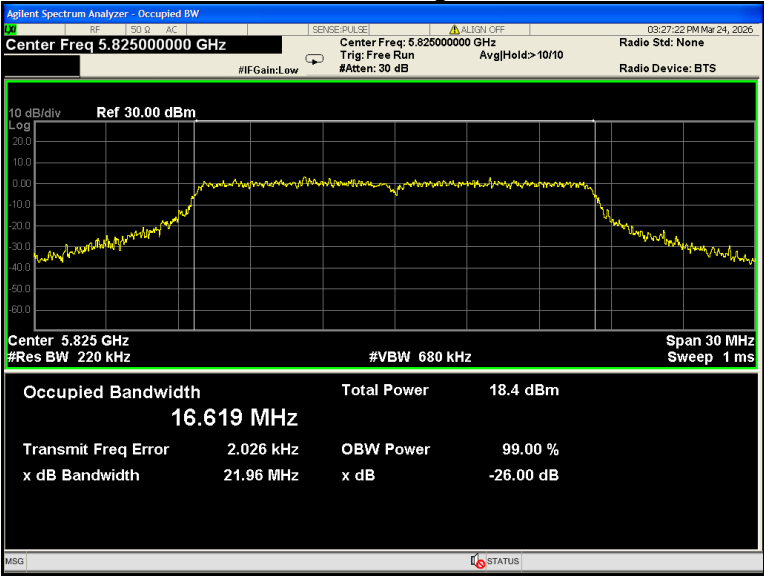
802.11a U-NII-3 Low channel



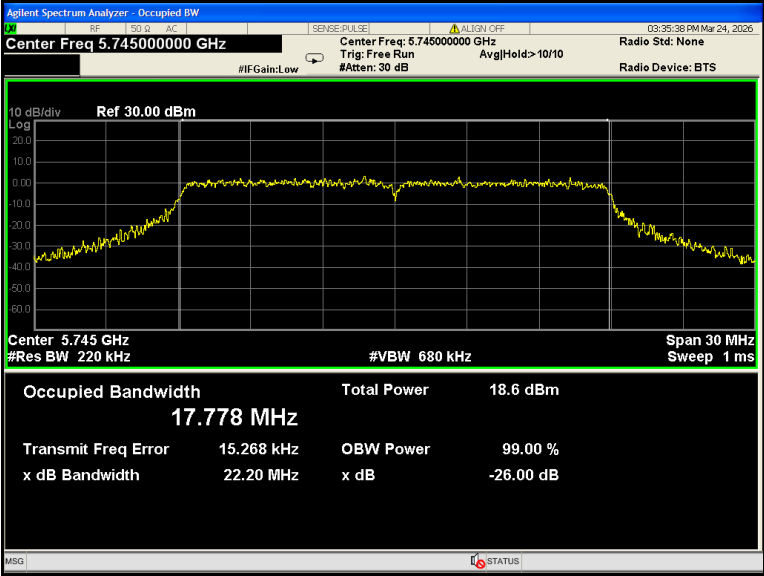
802.11a U-NII-3 Middle channel



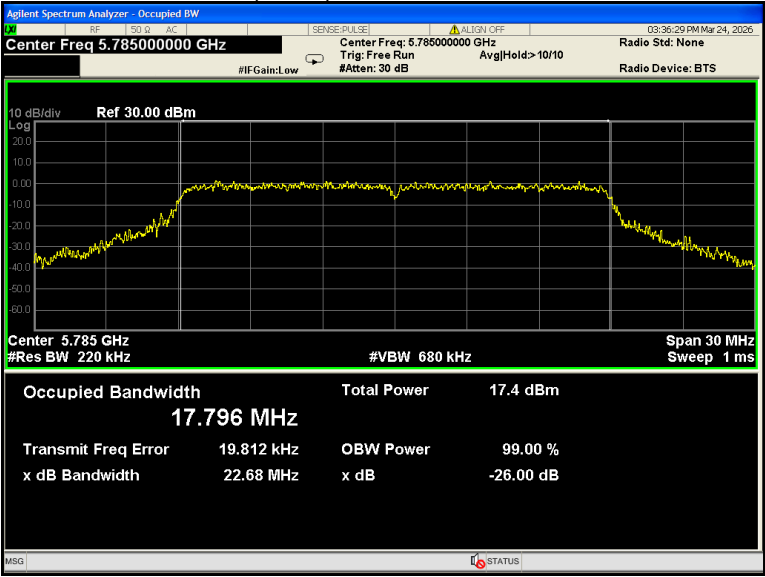
802.11a U-NII-3 High channel



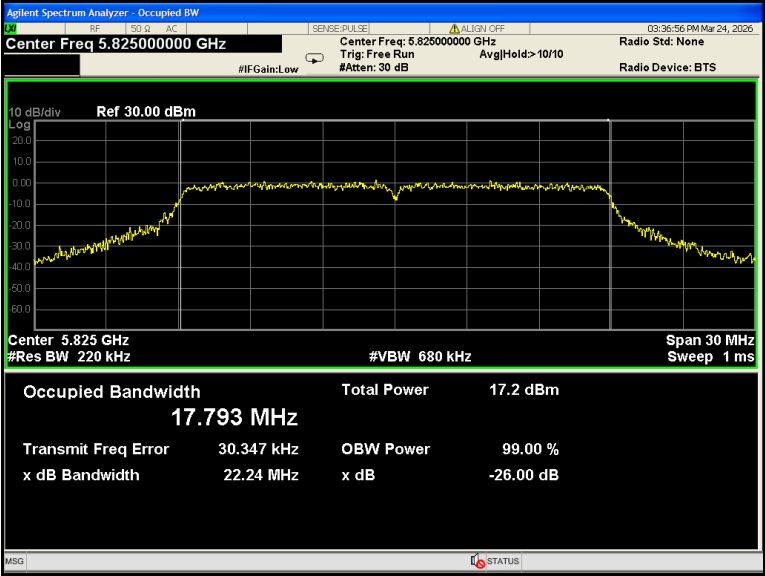
802.11n(HT20) U-NII-3 Low channel



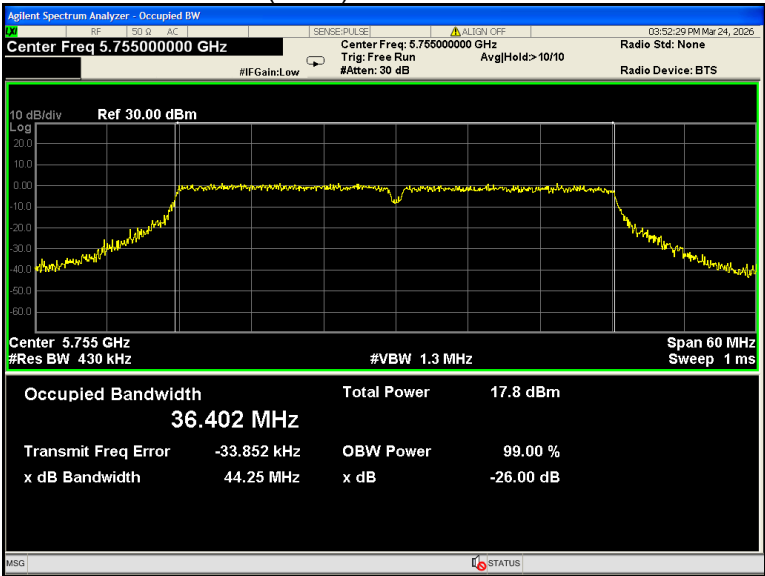
802.11n(HT20) U-NII-3 Middle channel



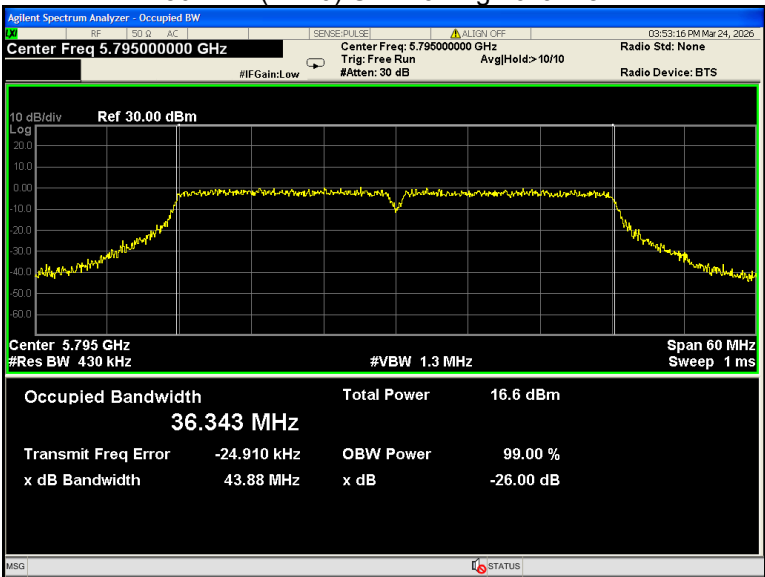
802.11n(HT20) U-NII-3 High channel



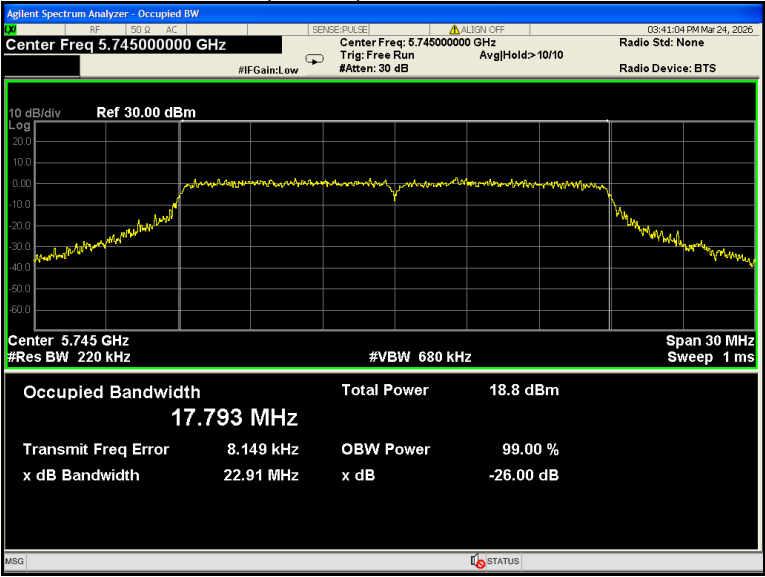
802.11n(HT40) U-NII-3 Low channel



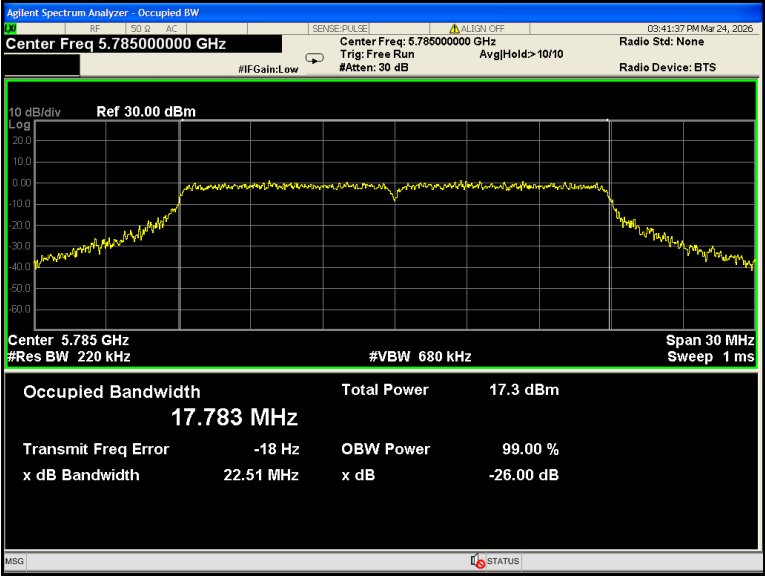
802.11n(HT40) U-NII-3 High channel



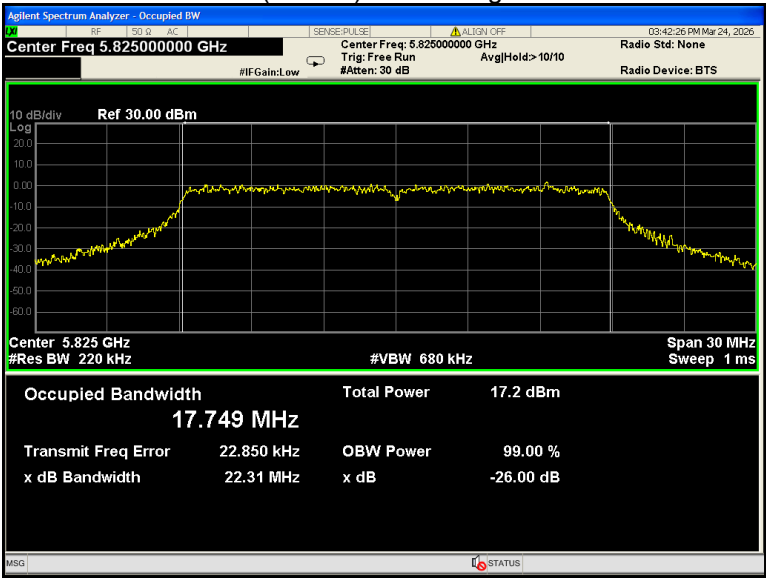
802.11ac(VHT20) U-NII-3 Low channel



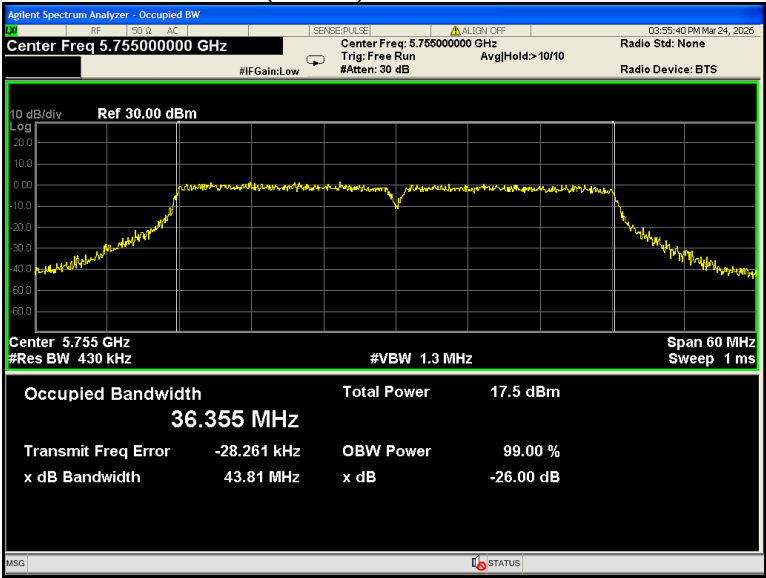
802.11ac(VHT20) U-NII-3 Middle channel



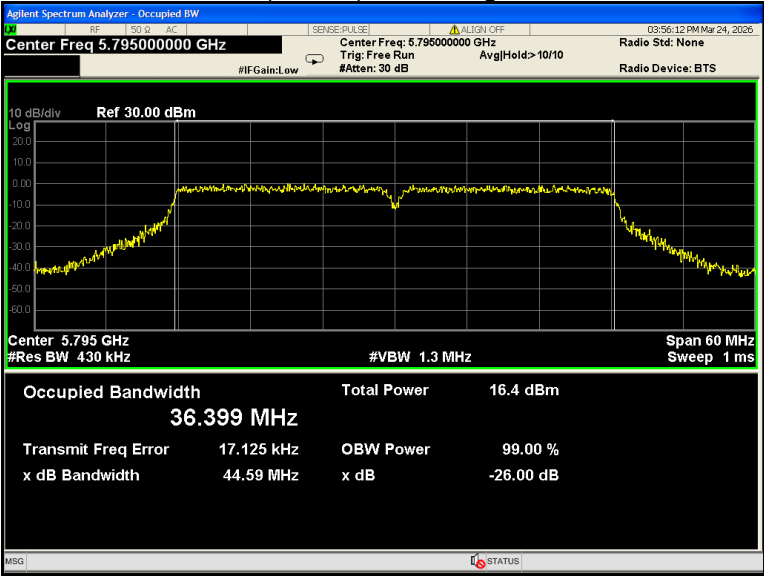
802.11ac(VHT20) U-NII-3 High channel



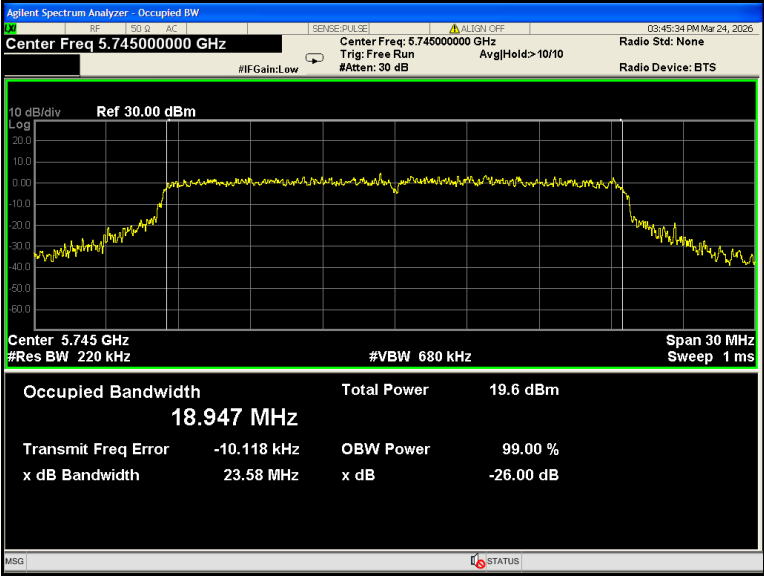
802.11ac(VHT40) U-NII-3 Low channel



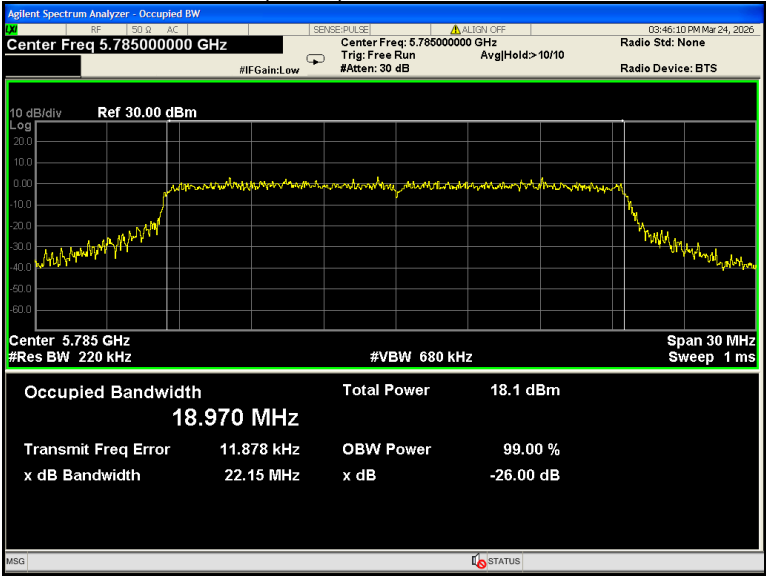
802.11ac(VHT40)U-NII-3 High channel



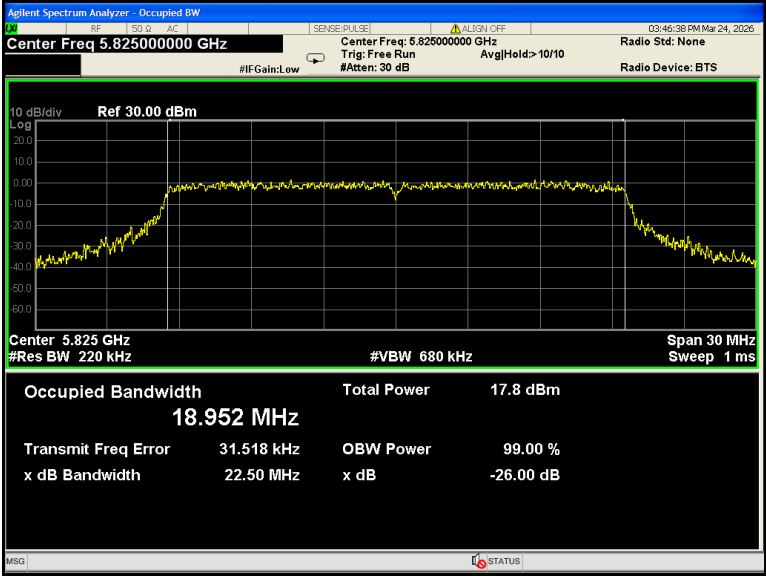
802.11ax(HE20) U-NII-3 Low channel



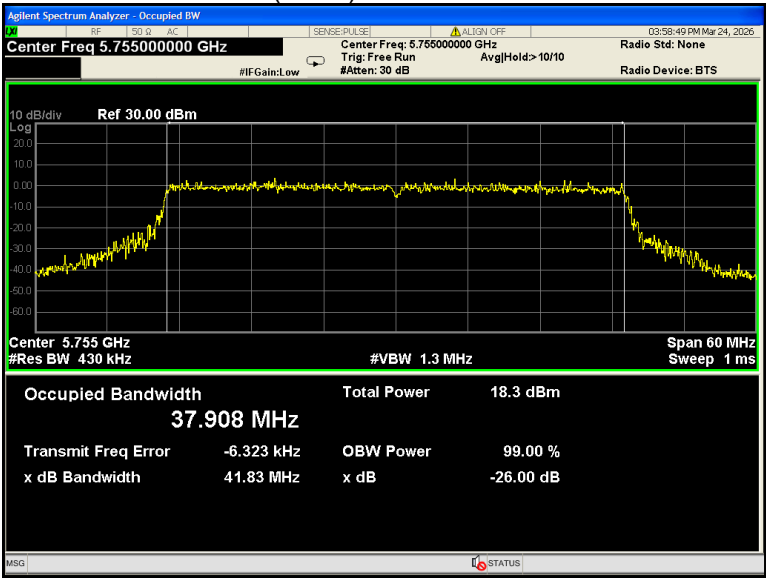
802.11ax(HE20)U-NII-3 Middle channel



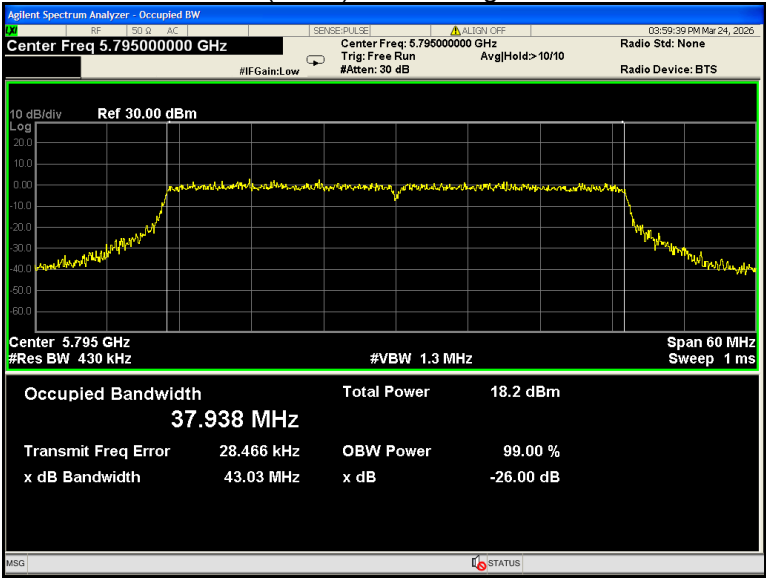
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



13 Conducted Output Power

Test Requirement:	FCC 47CFR Part 15 Section 15.407(a)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 KDB789033 D02 General U-NII Test Procedures New Rules v02r01 Section E
Test Limit:	For the band 5.15-5.25 GHz For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. For the band 5.725-5.850 GHz For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.
Test Result:	PASS
Remark:	Conducted output power= measurement power+10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power

13.1 Test Procedure

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW $\geq$ 3 MHz.
- (iv) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This ensures that bin-to-bin spacing is $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with

no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

(viii) Trace average at least 100 traces in power averaging (rms) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

13.2 Test Result

Band	Operation mode	Channel	Conducted Output Power (dBm)
U-NII-1	802.11a	Low	13.29
		Middle	13.31
		High	12.94
	802.11n(HT20)	Low	12.06
		Middle	12.04
		High	11.68
	802.11n(HT40)	Low	10.81
		High	10.54
	802.11ac(VHT20)	Low	11.81
		Middle	11.68
		High	11.31
	802.11ac(VHT40)	Low	10.83
		High	10.57
	802.11ax(HE20)	Low	11.17
		Middle	11.08
		High	11.05
	802.11ax(HE40)	Low	10.46
		High	10.57

Band	Operation mode	Channel	Conducted Output Power (dBm)
U-NII-3	802.11a	Low	15.27
		Middle	13.96
		High	13.50
	802.11n(HT20)	Low	13.63
		Middle	12.23
		High	11.84
	802.11n(HT40)	Low	12.59
		High	11.62
	802.11ac(VHT20)	Low	13.49
		Middle	12.25
		High	11.90
	802.11ac(VHT40)	Low	12.73
		High	11.51
	802.11ax(HE20)	Low	13.75
		Middle	12.65
		High	11.95
	802.11ax(HE40)	Low	12.74
		High	11.56

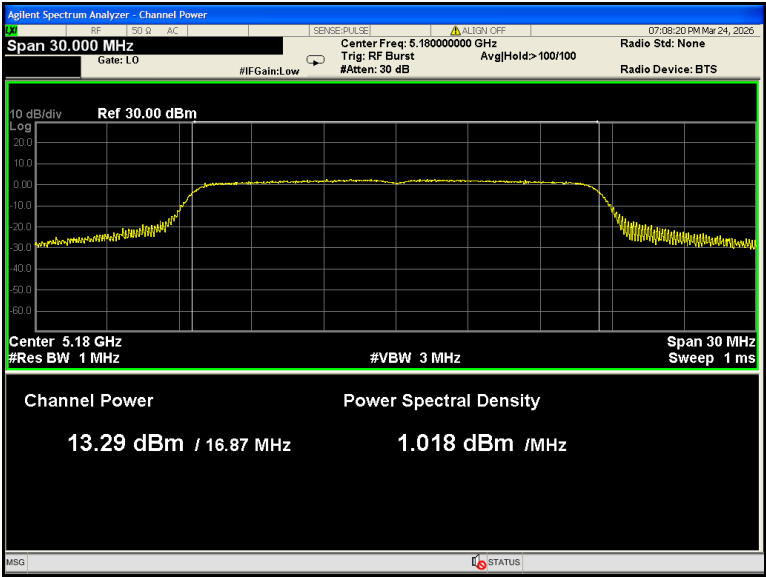
Note:

1. Conducted Output Power = Measurements + Duty Cycle Factor

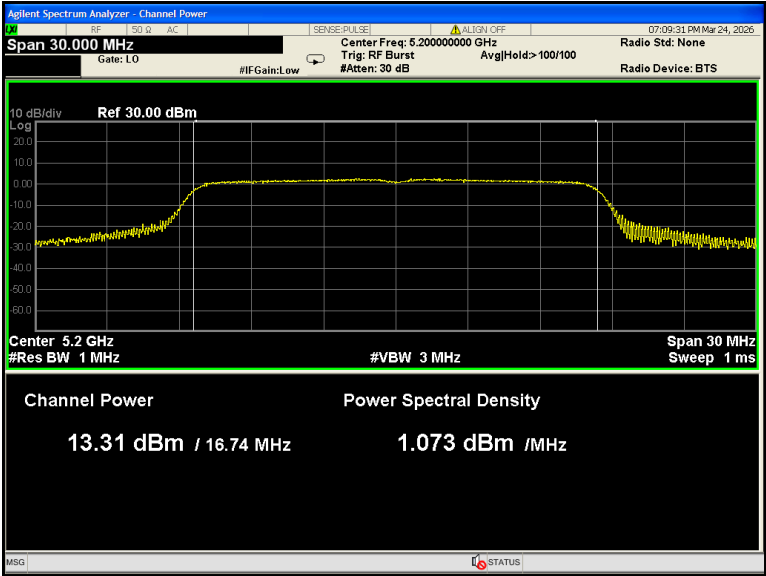
* Directional gain = G_{ANT} which is less than 6dBi. So the limit does not be reduced.

Test result plots shown as follows:

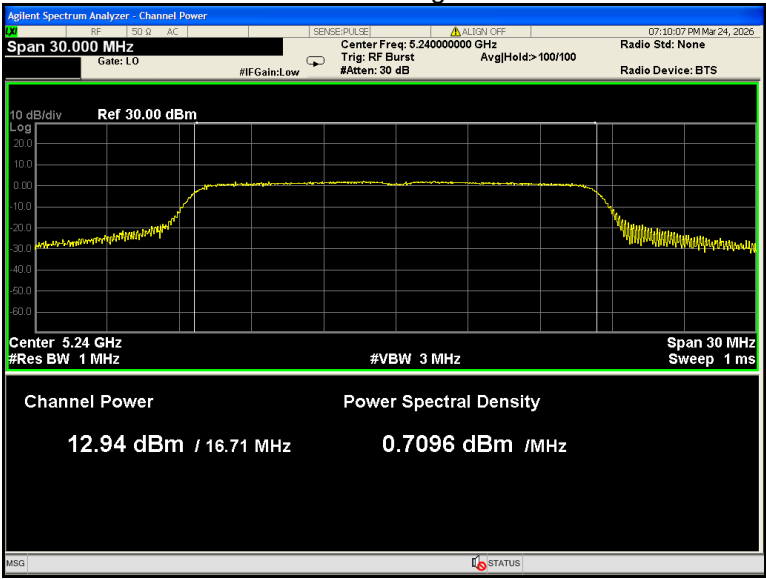
802.11a U-NII-1 Low channel



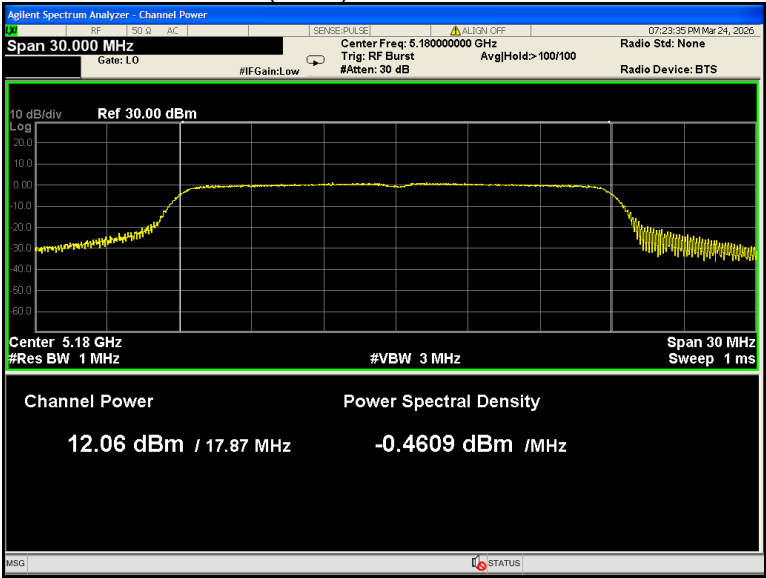
802.11a U-NII-1 Middle channel



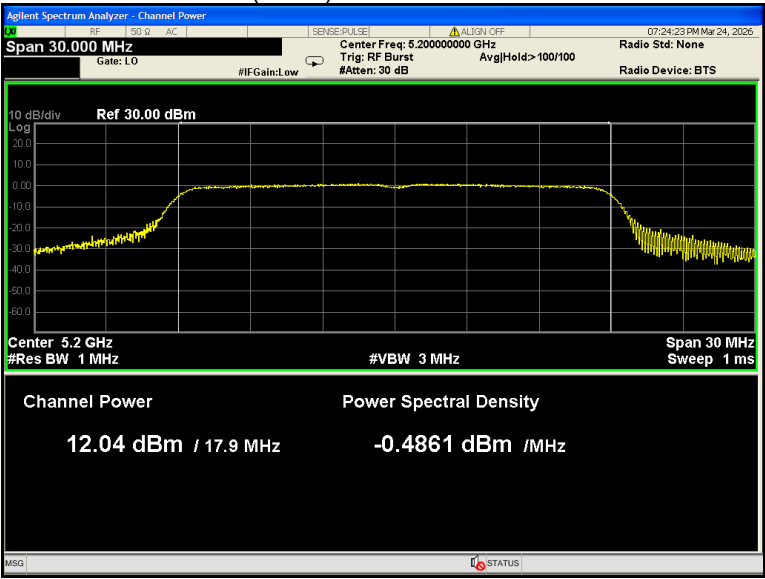
802.11a U-NII-1 High channel



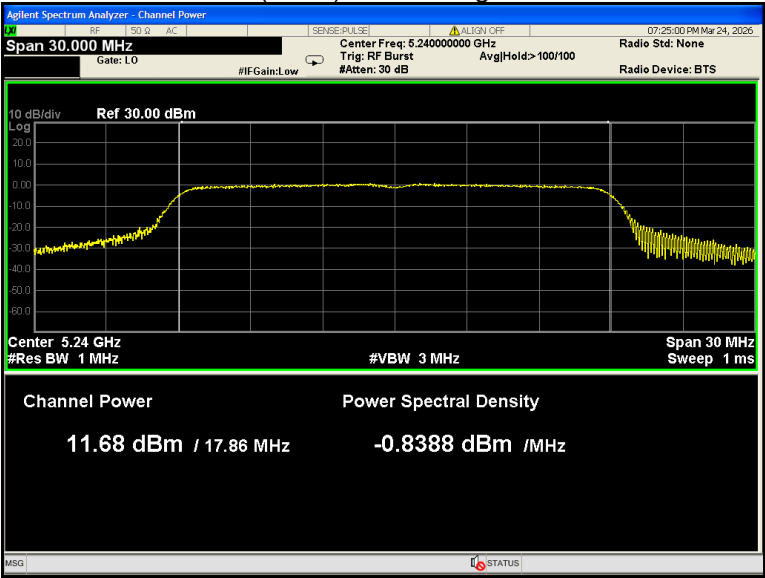
802.11n(HT20) U-NII-1 Low channel



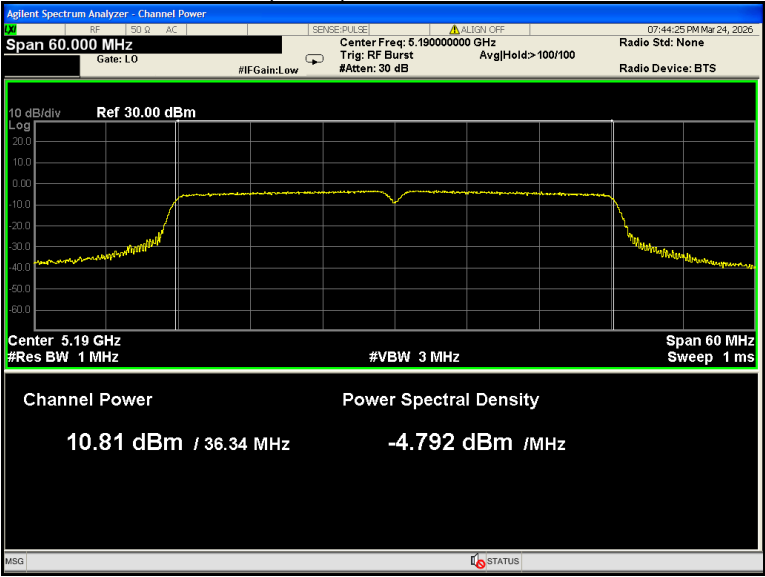
802.11n(HT20) U-NII-1 Middle channel



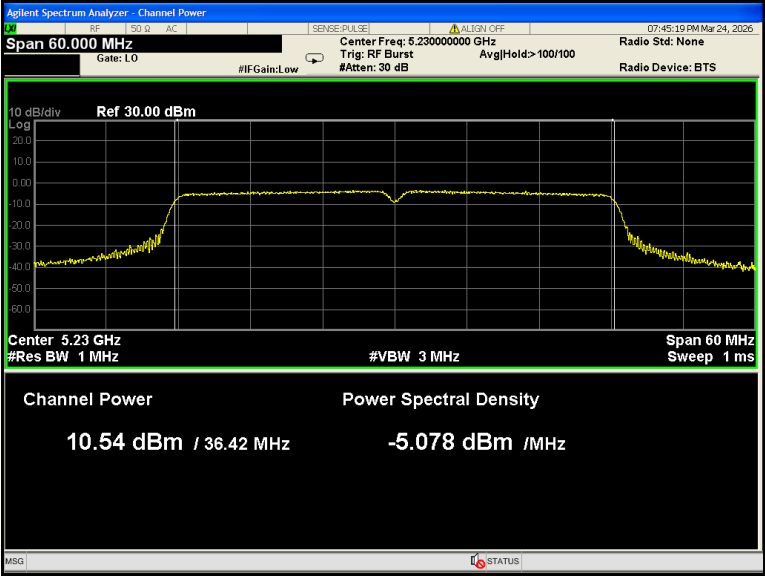
802.11n(HT20) U-NII-1 High channel



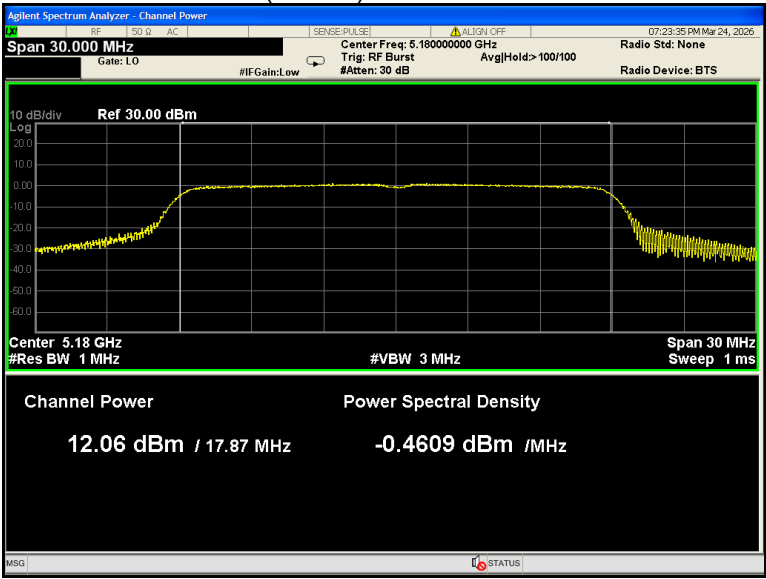
802.11n(HT40) U-NII-1 Low channel



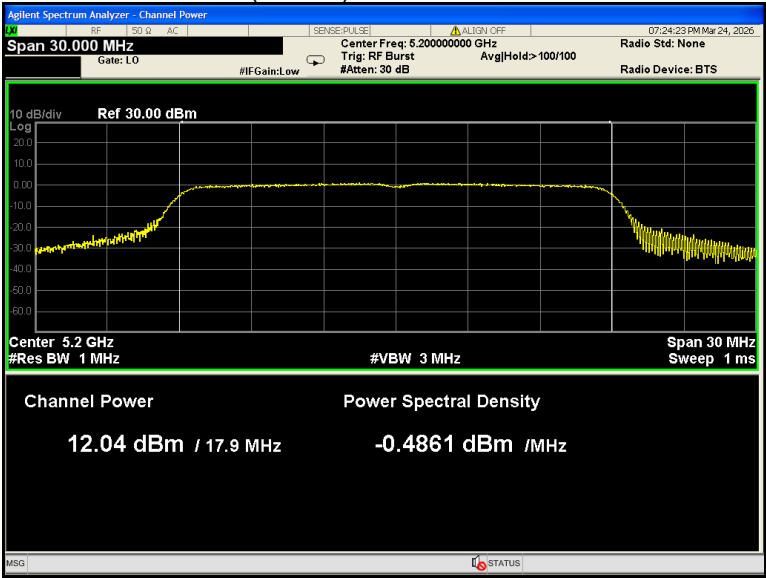
802.11n(HT40) U-NII-1 High channel



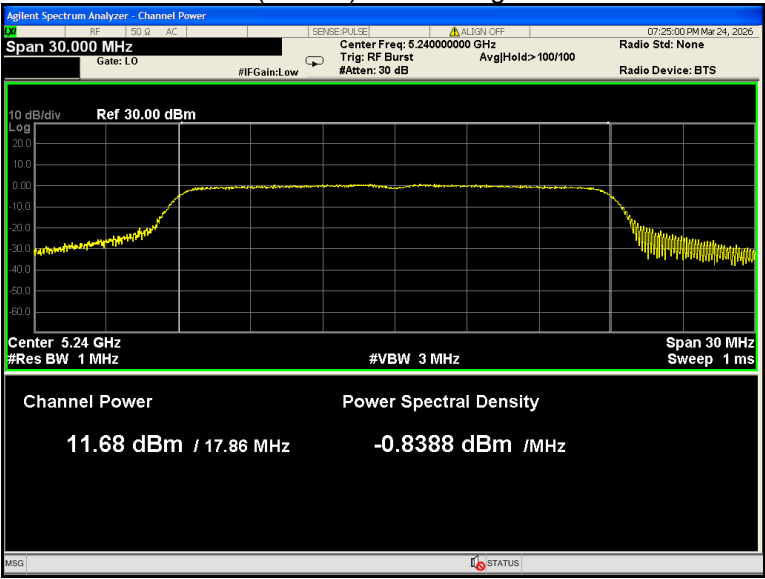
802.11ac(VHT20) U-NII-1 Low channel



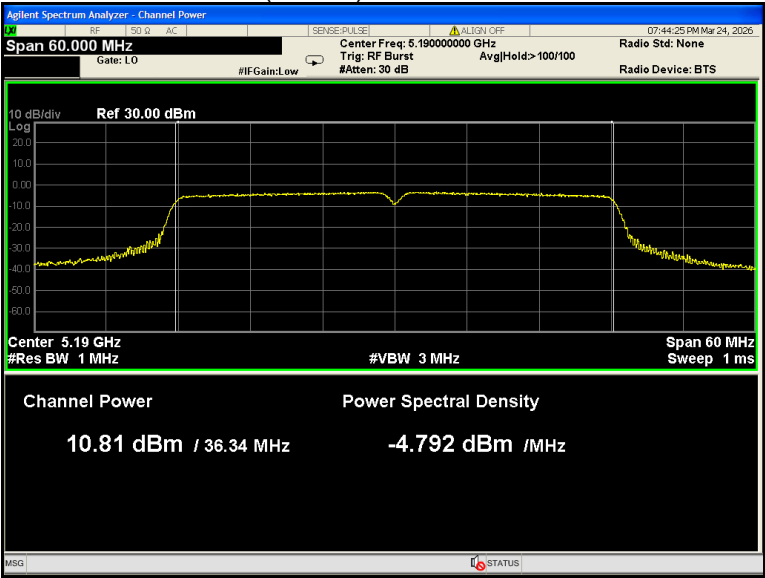
802.11ac(VHT20) U-NII-1 Middle channel



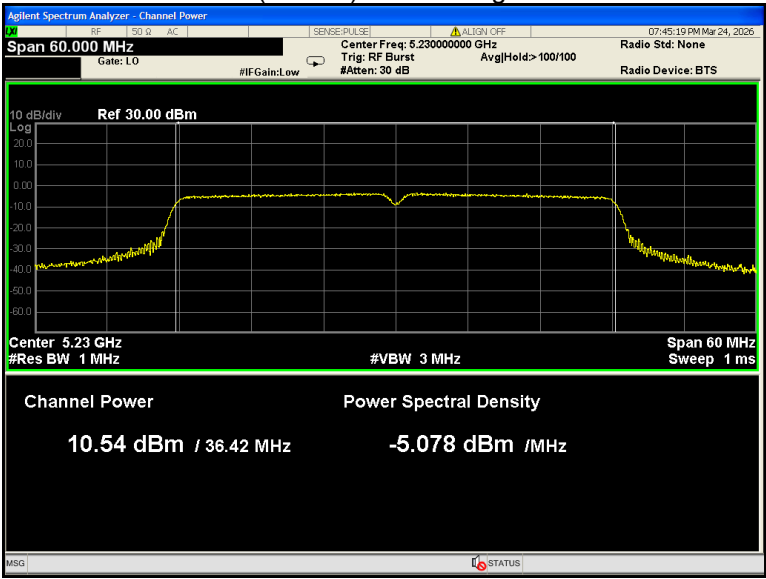
802.11ac(VHT20) U-NII-1 High channel



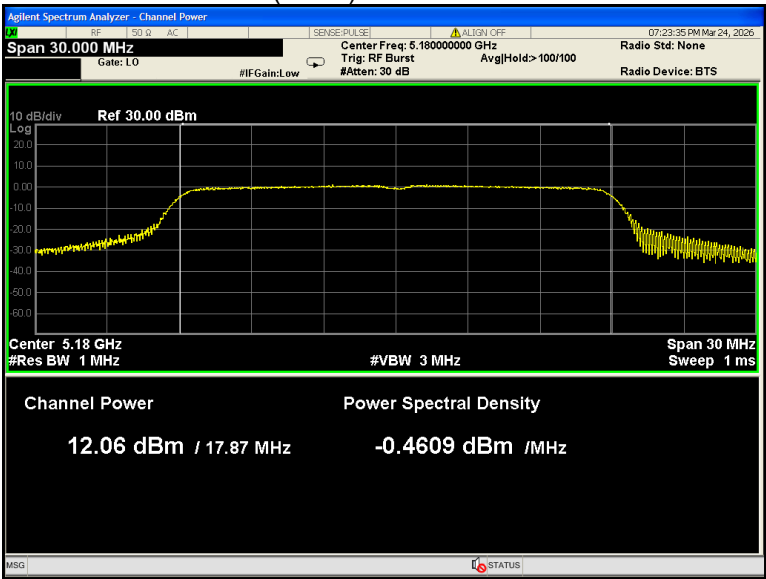
802.11ac(VHT40) U-NII-1 Low channel



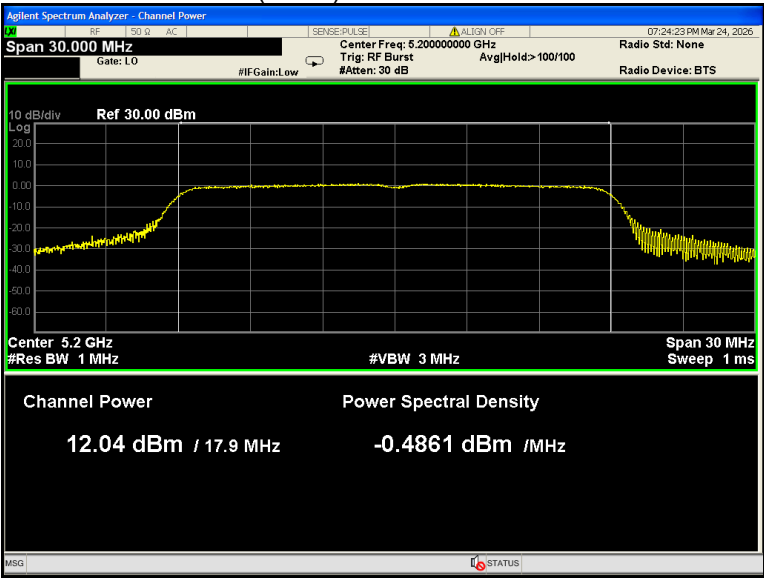
802.11ac(VHT40) U-NII-1 High channel



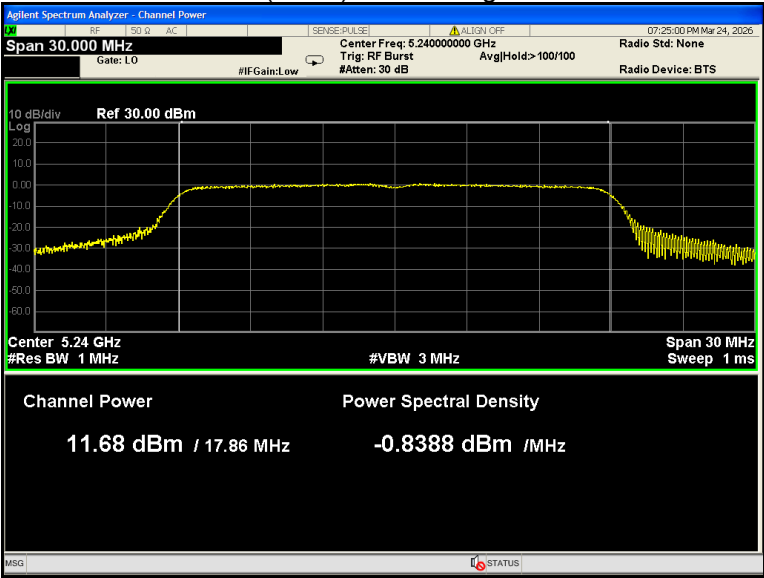
802.11ax(HE20) U-NII-1 Low channel



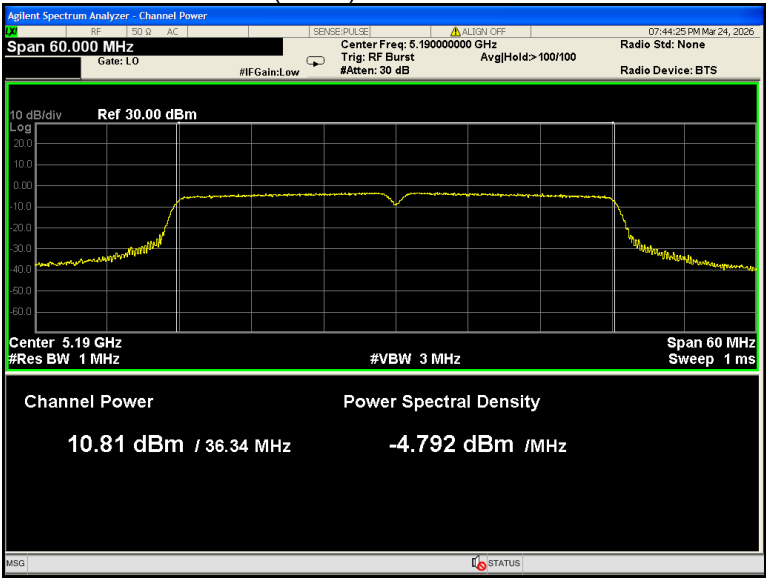
802.11ax(HE20) U-NII-1 Middle channel



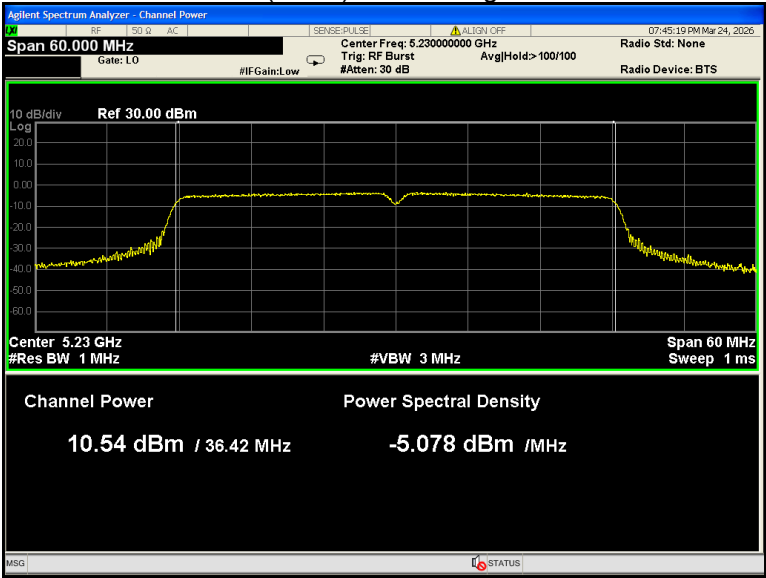
802.11ax(HE20) U-NII-1 High channel



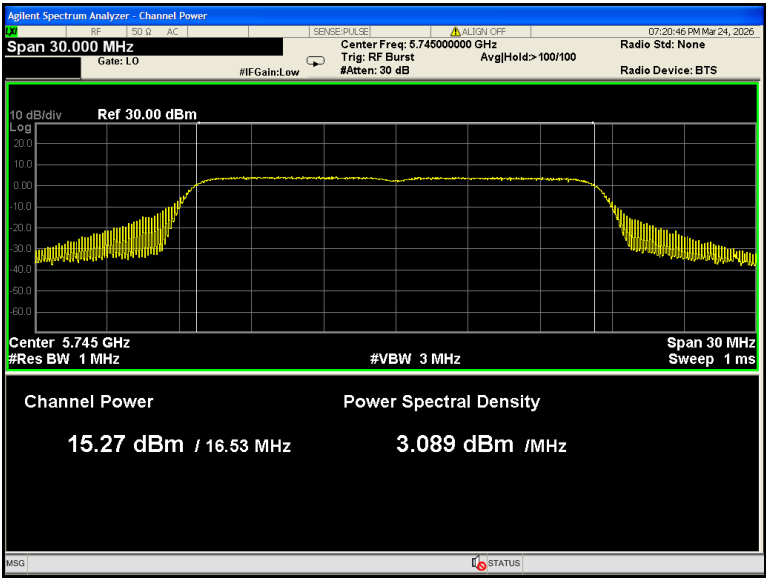
802.11ax(HE40) U-NII-1 Low channel



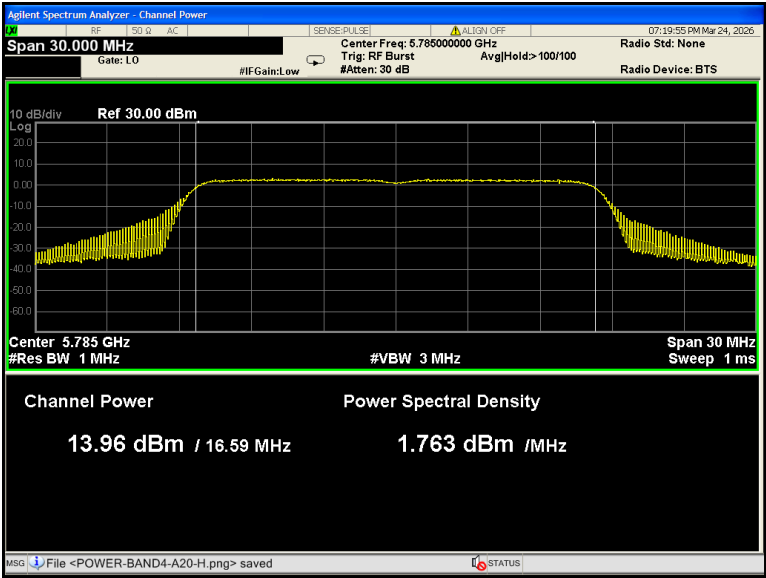
802.11ax(HE40) U-NII-1 High channel



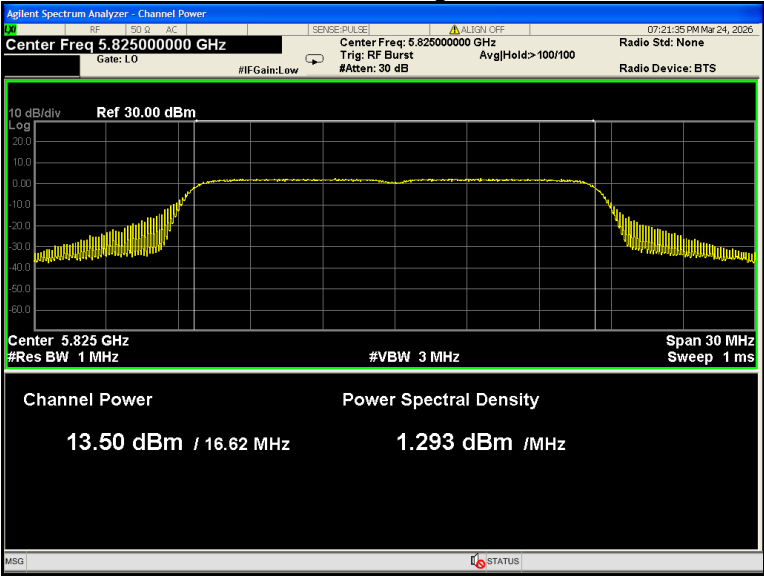
802.11a U-NII-3 Low channel



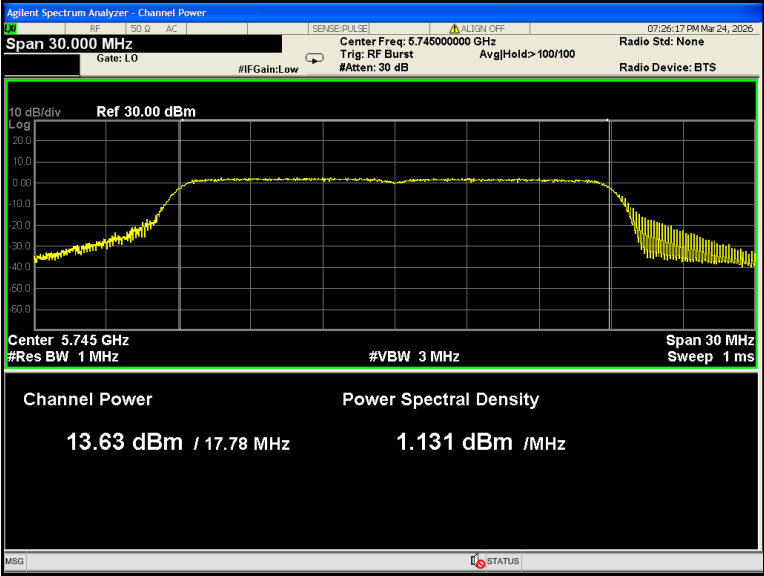
802.11a U-NII-3 Middle channel



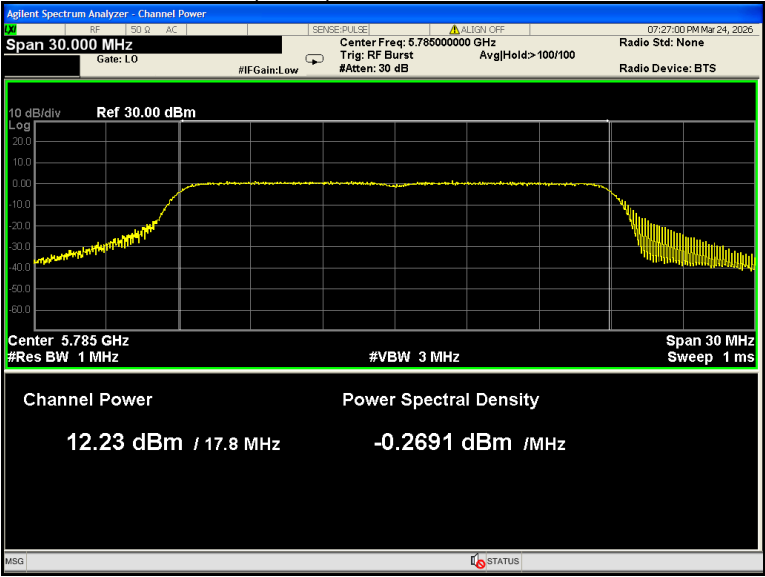
802.11a U-NII-3 High channel



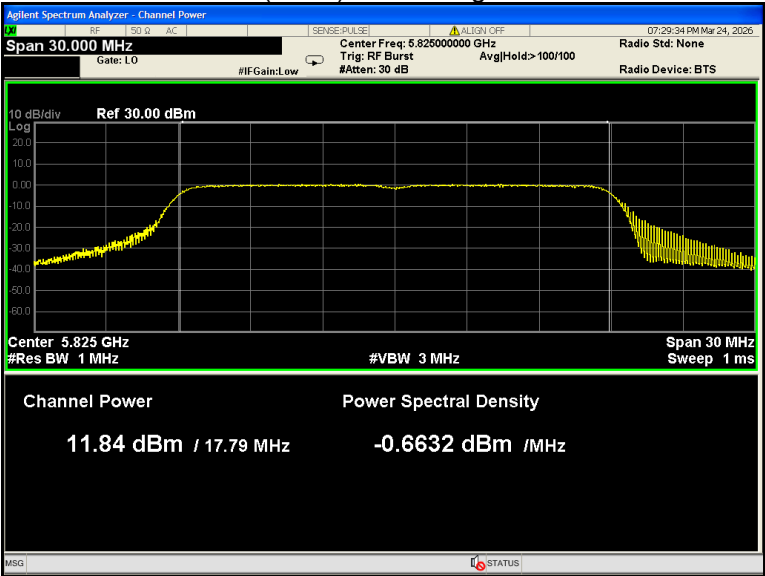
802.11n(HT20) U-NII-3 Low channel



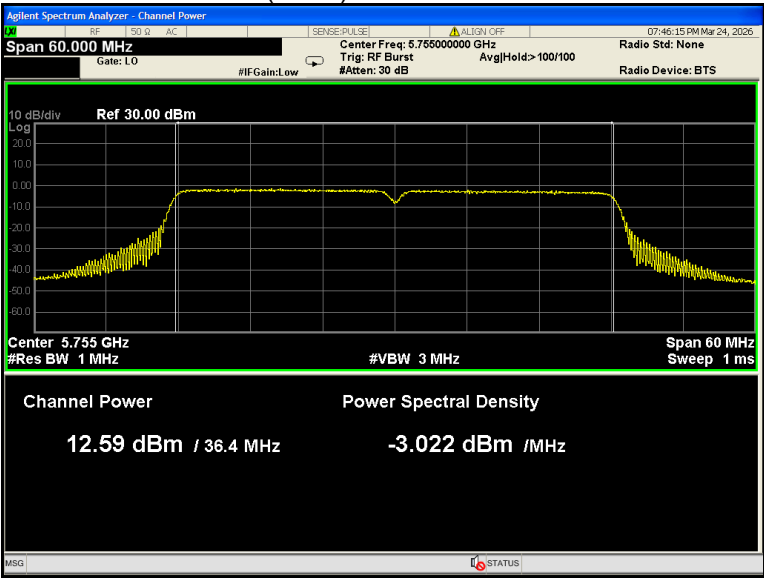
802.11n(HT20) U-NII-3 Middle channel



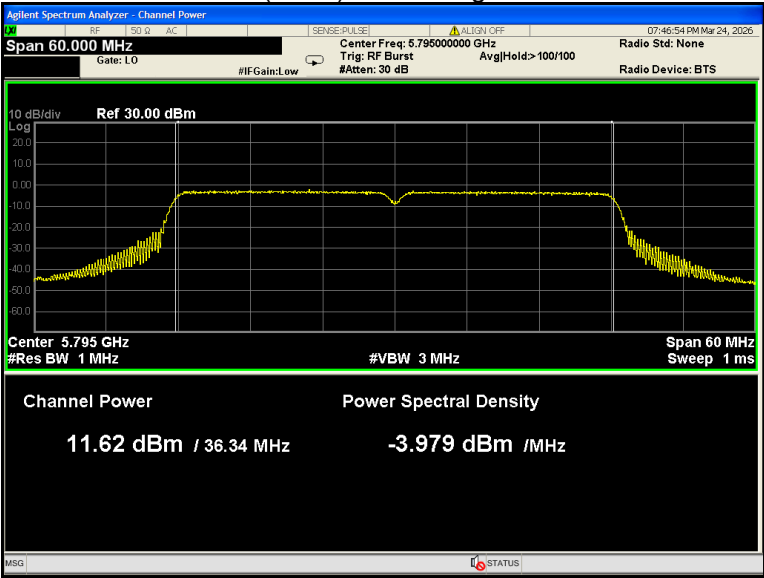
802.11n(HT20) U-NII-3 High channel



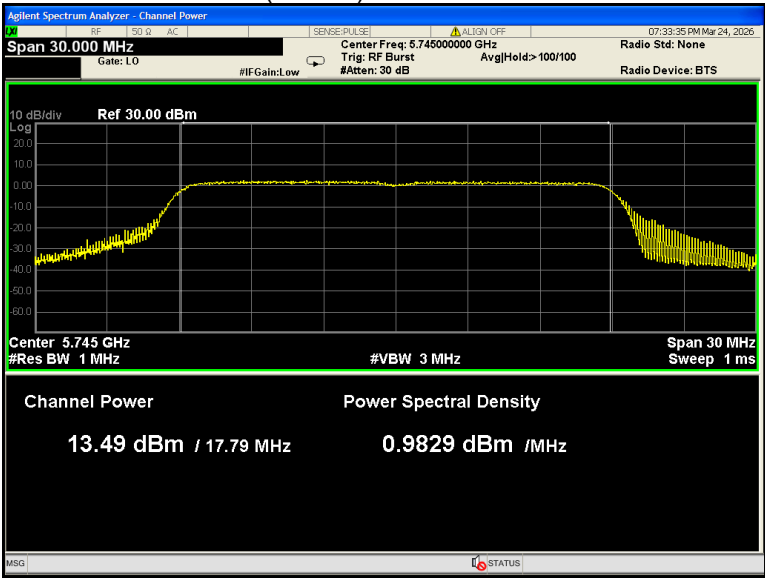
802.11n(HT40) U-NII-3 Low channel



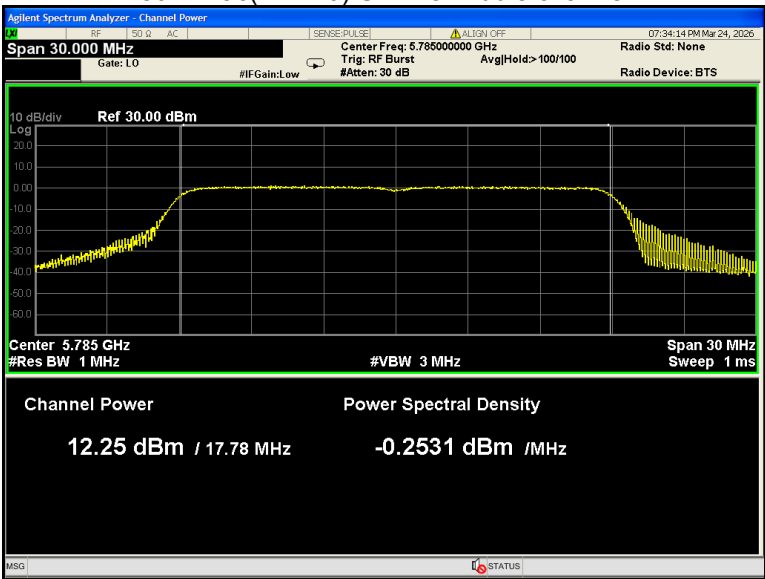
802.11n(HT40) U-NII-3 High channel



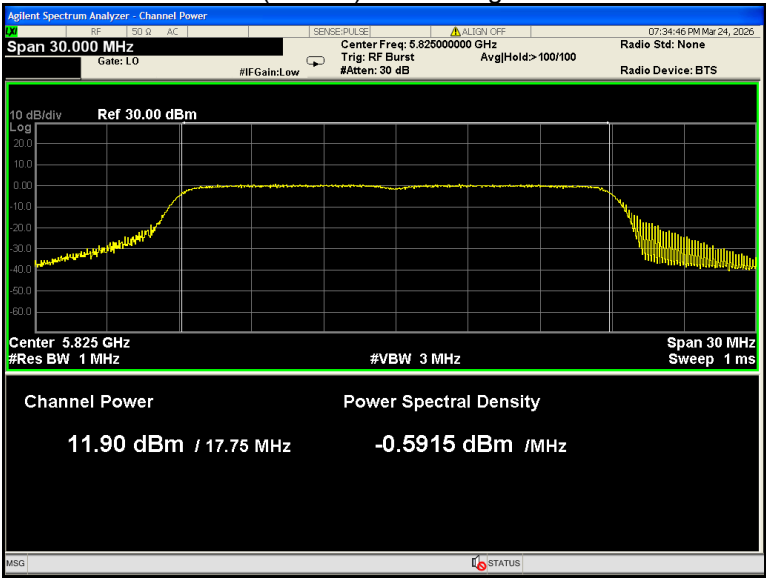
802.11ac(VHT20) U-NII-3 Low channel



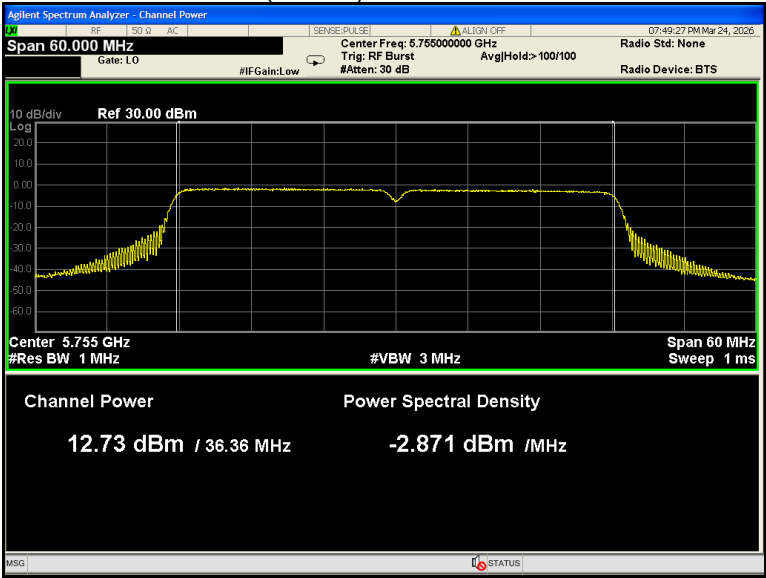
802.11ac(VHT20) U-NII-3 Middle channel



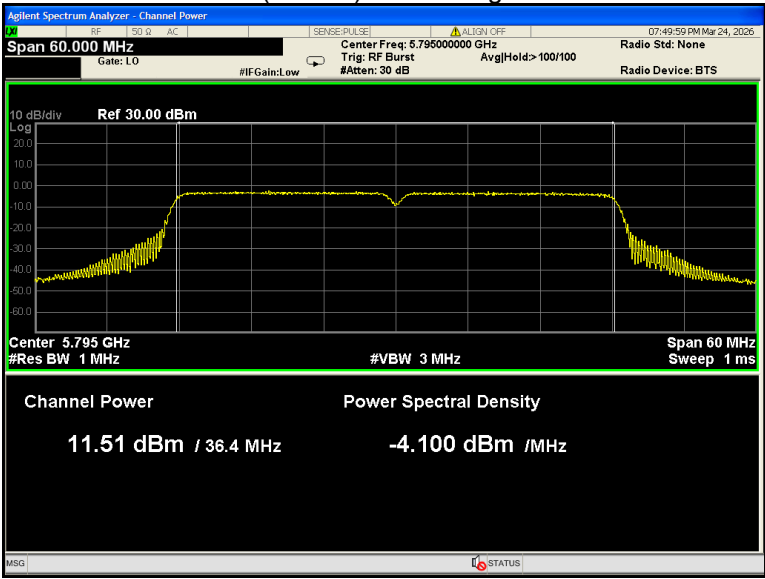
802.11ac(VHT20) U-NII-3 High channel



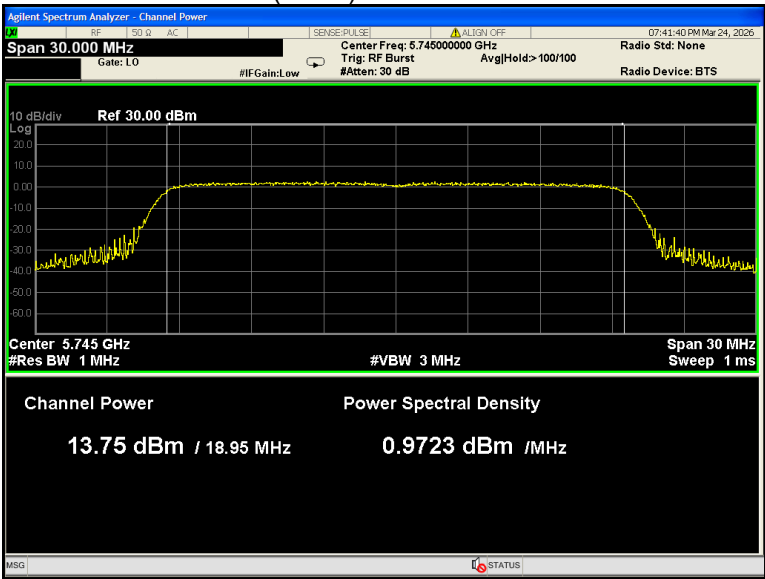
802.11ac(VHT40) U-NII-3 Low channel



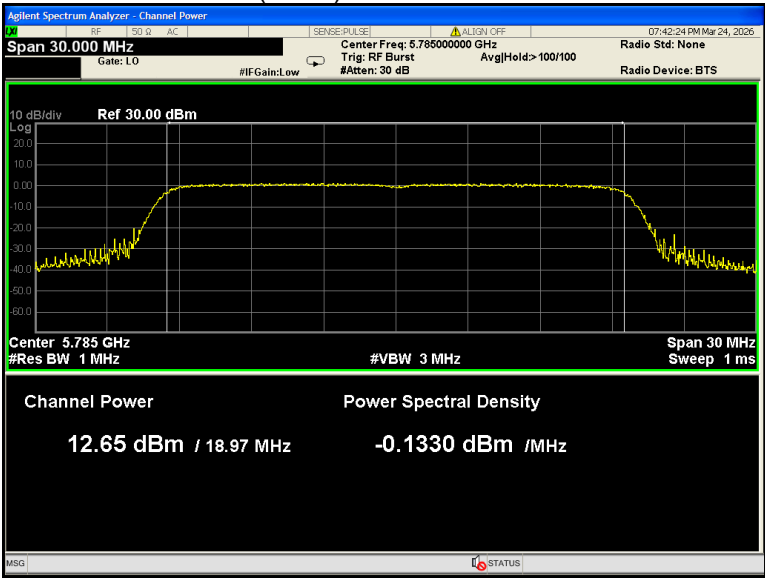
802.11ac(VHT40) U-NII-3 High channel



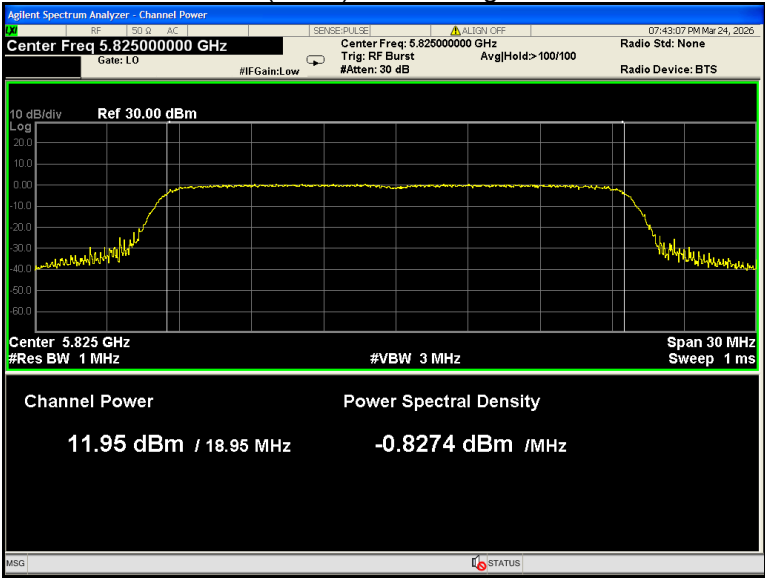
802.11ax(HE20) U-NII-3 Low channel



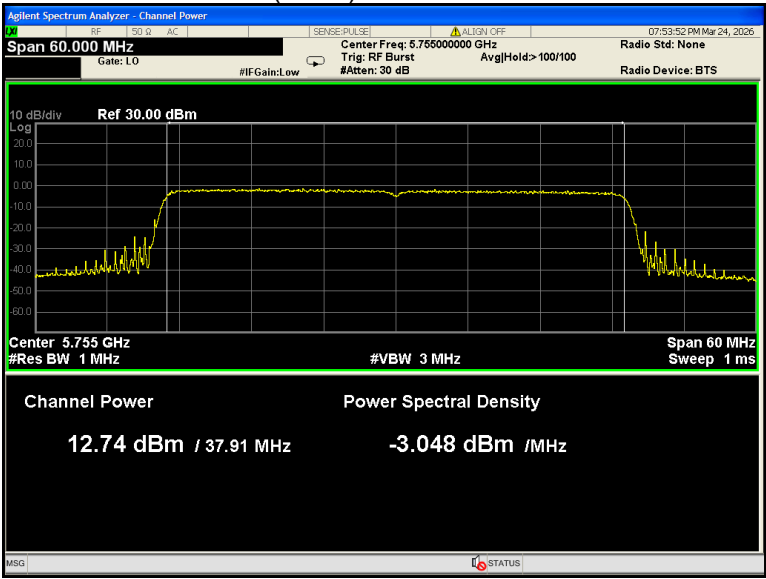
802.11ax(HE20) U-NII-3 Middle channel



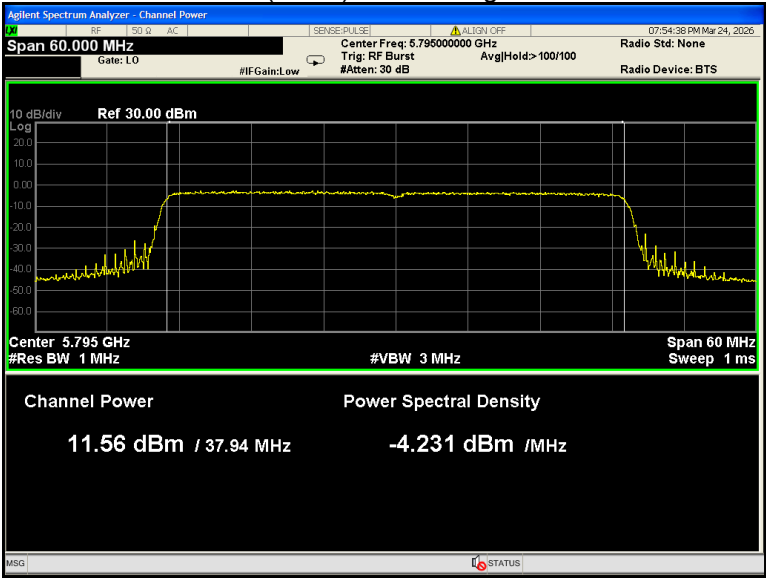
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



14 Power Spectral Density

Test Requirement:	FCC 47CFR Part 15 Section 15.407(a)
Test Method:	KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Test Limit:	For the band 5.15-5.25 GHz For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands The maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. For the band 5.725-5.850 GHz The maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.
Test Result:	PASS

14.1 Test Procedure

1. Create an average power spectrum for the EUT operating mode being tested by following the instructions in II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...." (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
2. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
3. Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) If Method SA-2 or SA-2 Alternative was used, add $10 \log (1/x)$, where x is the duty cycle, to the peak of the spectrum.
 - b) If Method SA-3 Alternative was used and the linear mode was used in II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
4. The result is the Maximum PSD over 1 MHz reference bandwidth
5. For devices operating in the bands 5.15–5.25 GHz, 5.25–5.35 GHz, and 5.47–5.725 GHz, the preceding procedures make use of 1 MHz RBW. For devices operating in the band 5.725–5.85 GHz, the preceding procedures make use of 1 MHz RBW

14.2 Test Result

Band	Operation mode	Channel	Power Spectral Density (dBm/MHz)
U-NII-1	802.11a	Low	2.483
		Middle	2.509
		High	1.925
	802.11n(HT20)	Low	2.223
		Middle	2.485
		High	2.012
	802.11n(HT40)	Low	-2.919
		High	-3.342
	802.11ac(VHT20)	Low	1.063
		Middle	1.267
		High	0.838
	802.11ac(VHT40)	Low	-2.778
		High	-3.139
	802.11ax(HE20)	Low	1.262
		Middle	1.126
		High	0.581
	802.11ax(HE40)	Low	-2.865
		High	-3.240

Band	Operation mode	Channel	Power Spectral Density (dBm/500kHz)
U-NII-3	802.11a	Low	1.789
		Middle	0.138
		High	-0.381
	802.11n(HT20)	Low	-0.824
		Middle	-2.011
		High	-2.534
	802.11n(HT40)	Low	-4.841
		High	-5.818
	802.11ac(VHT20)	Low	-0.937
		Middle	-2.024
		High	-2.728
	802.11ac(VHT40)	Low	-4.725
		High	-5.914
	802.11ax(HE20)	Low	-0.900
		Middle	-1.791
		High	-2.797
	802.11ax(HE40)	Low	-4.708
		High	-6.006

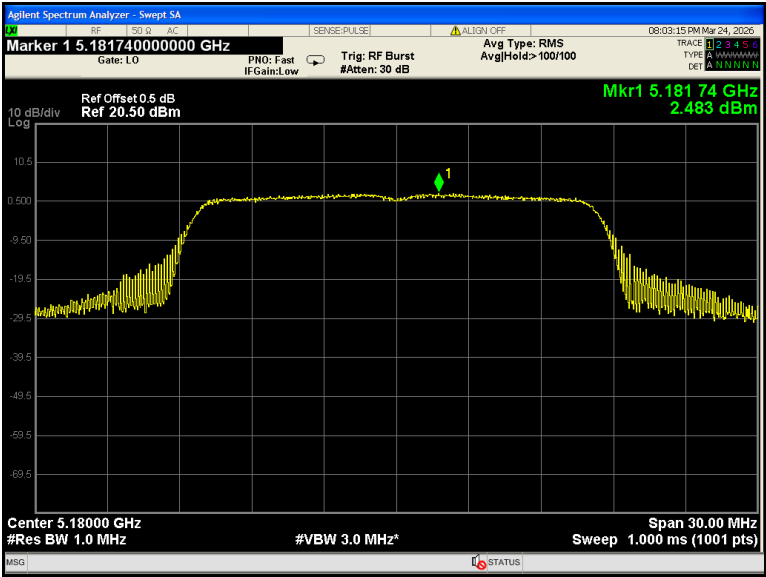
Note:

1. Conducted Output Power Spectral Density = Measurements + Duty Cycle Factor

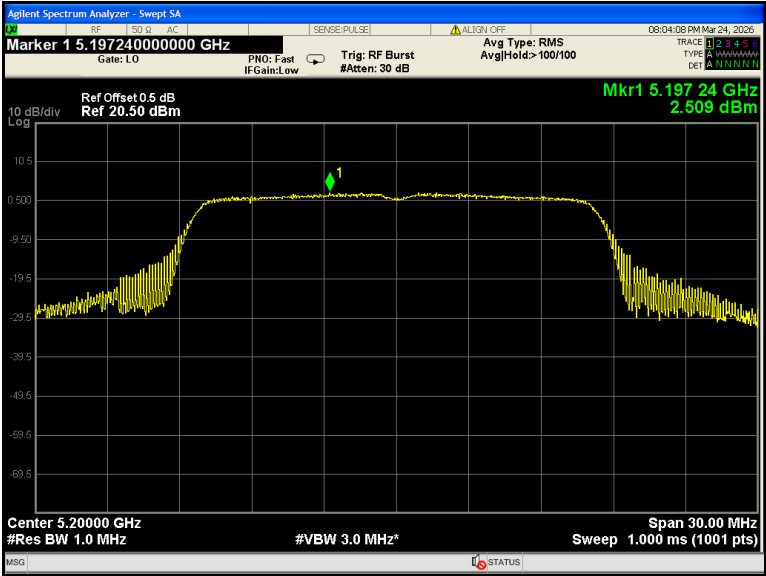
* Directional gain = G_{ANT} which is less than 6dBi. So the limit does not be reduced.

Test result plots shown as follows:

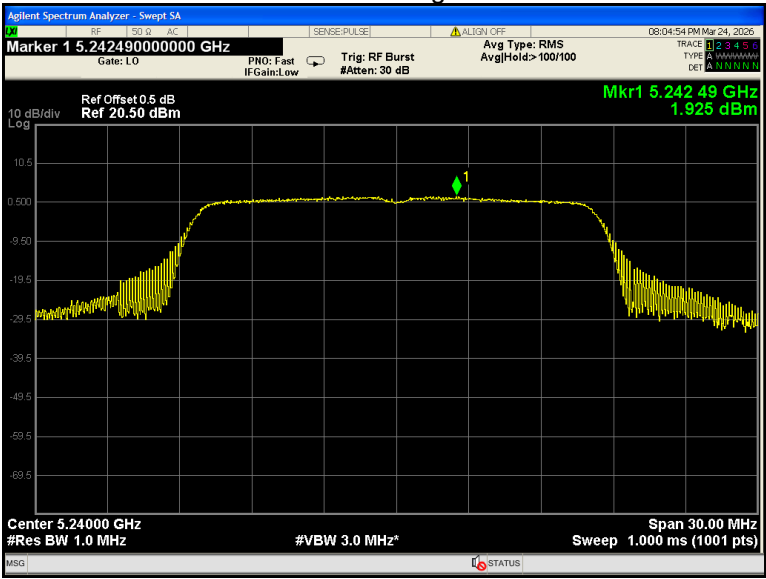
802.11a U-NII-1 Low channel



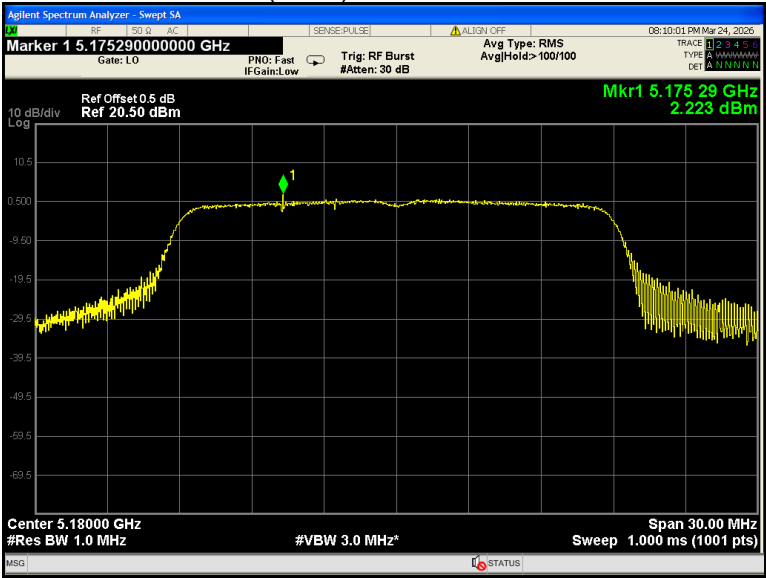
802.11a U-NII-1 Middle channel



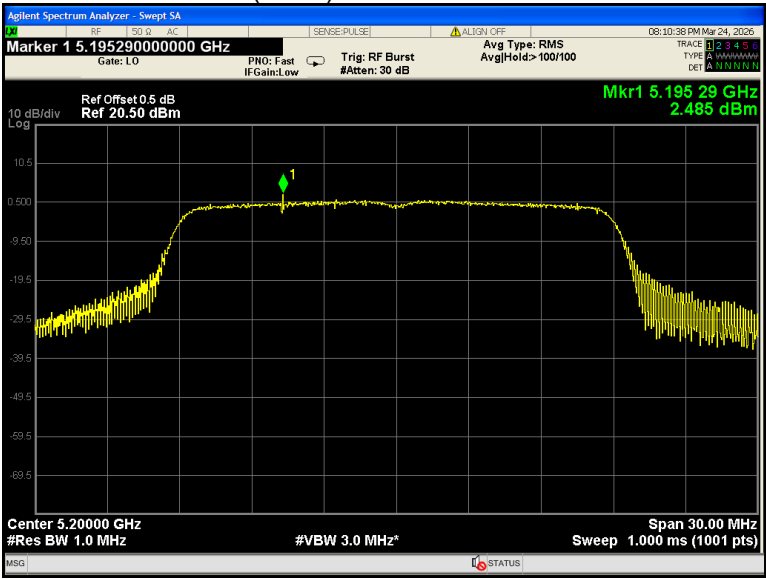
802.11a U-NII-1 High channel



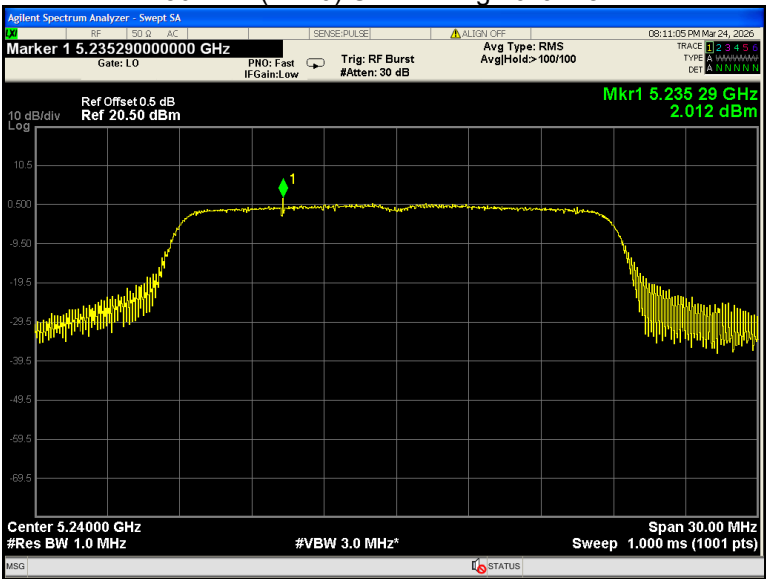
802.11n(HT20) U-NII-1 Low channel



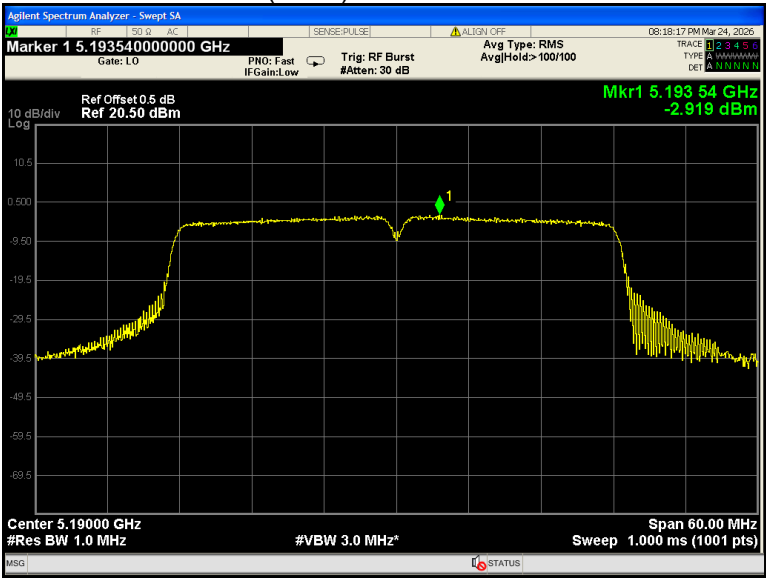
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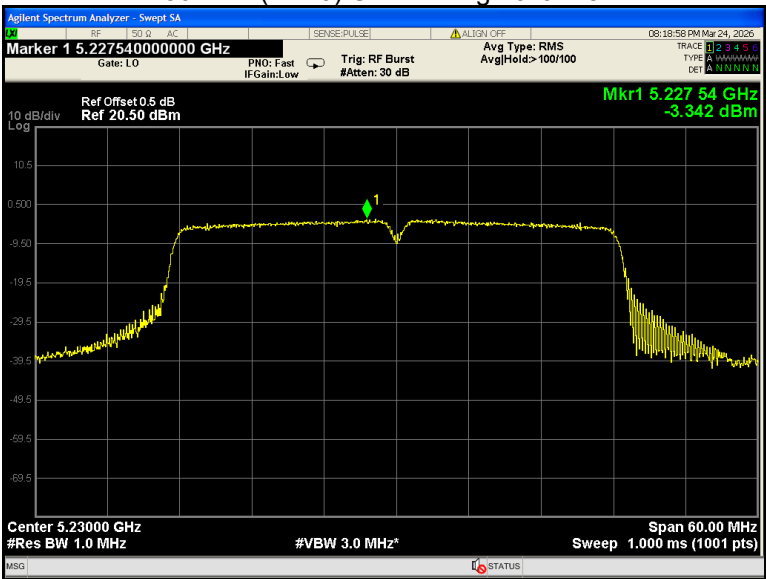
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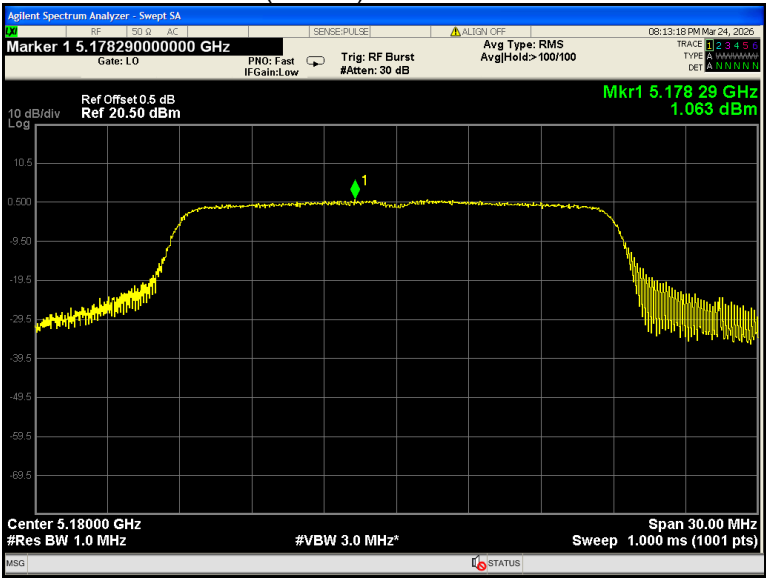
802.11n(HT40) U-NII-1 Low channel



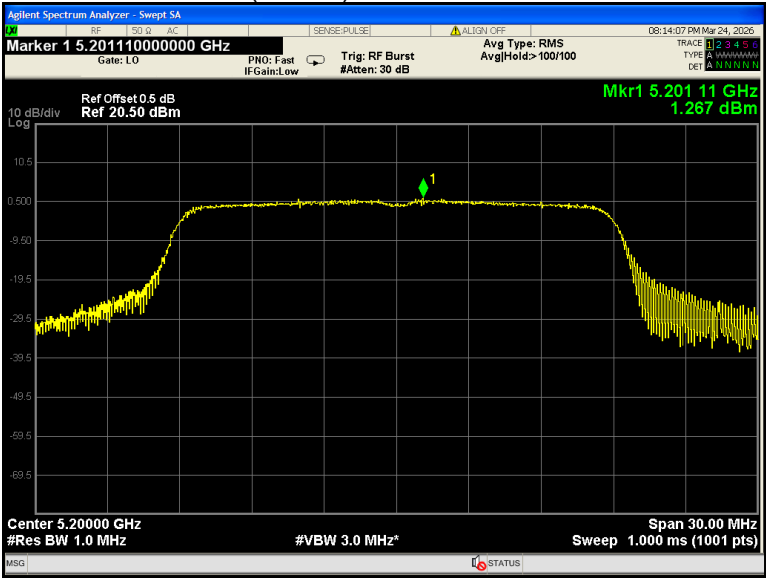
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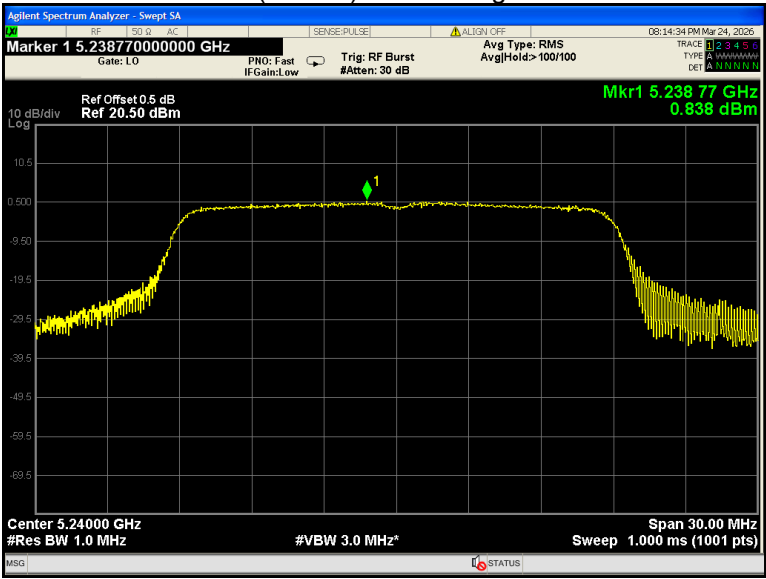
802.11ac(VHT20) U-NII-1 Low channel



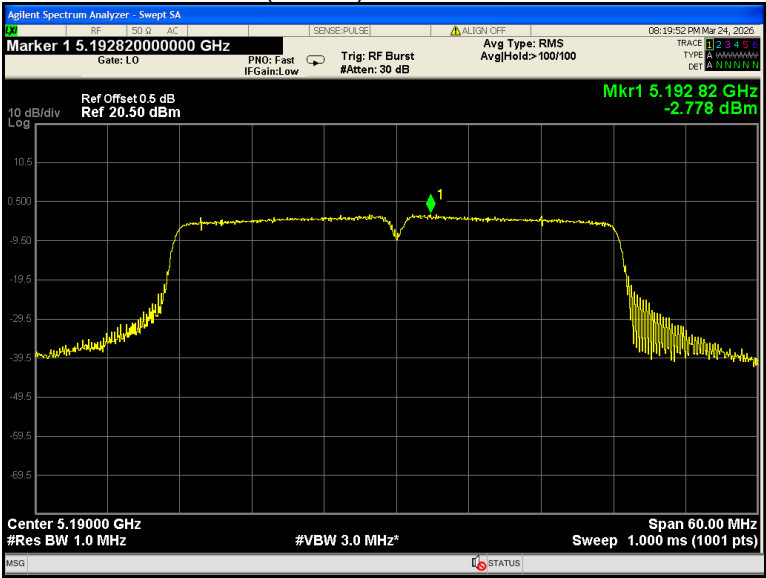
802.11ac(VHT20) U-NII-1 Middle channel



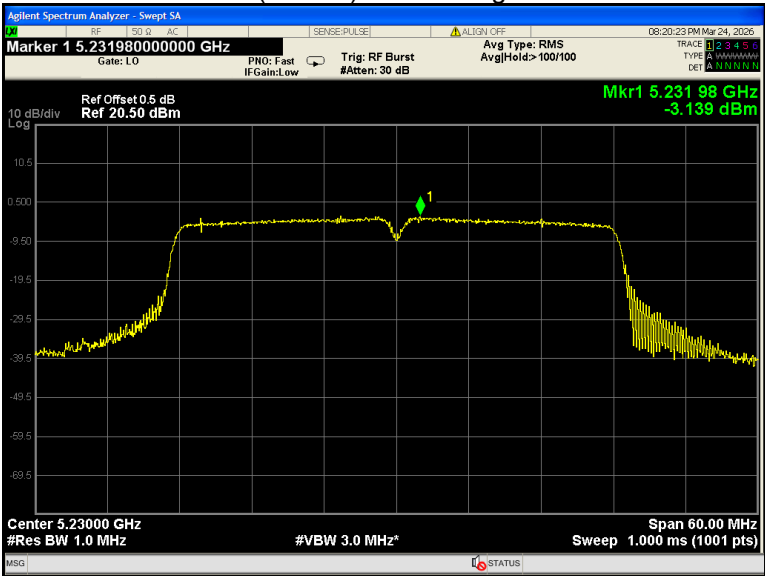
802.11ac(VHT20) U-NII-1 High channel



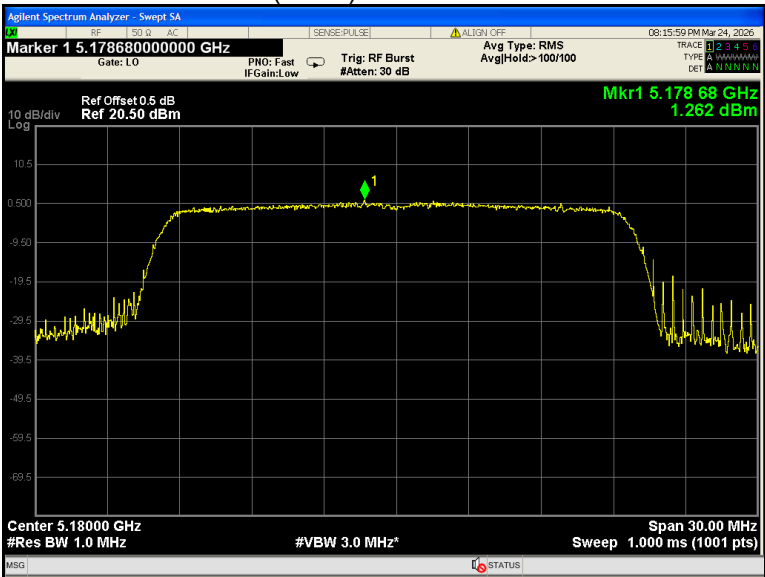
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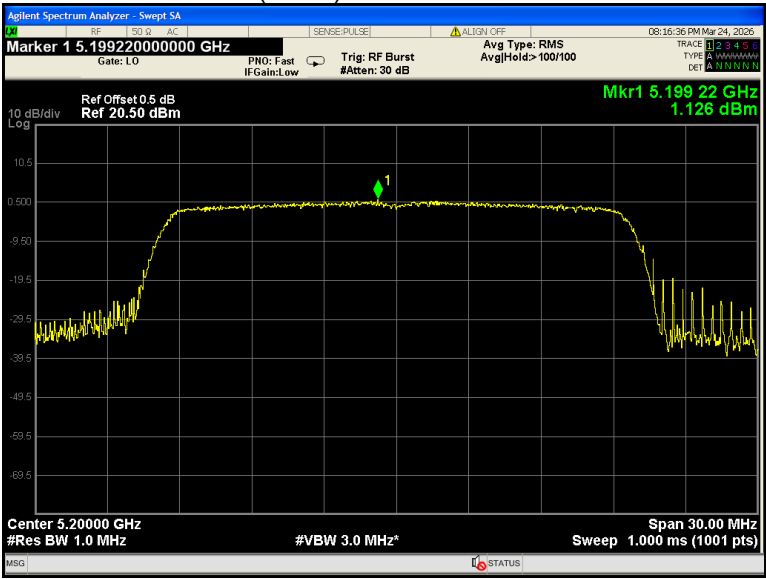
802.11ac(VHT40) U-NII-1 High channel



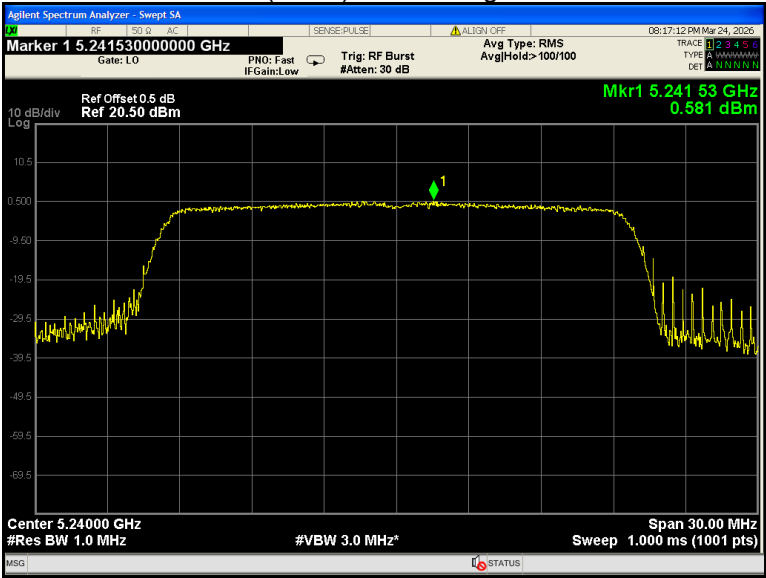
802.11ax(HE20) U-NII-1 Low channel



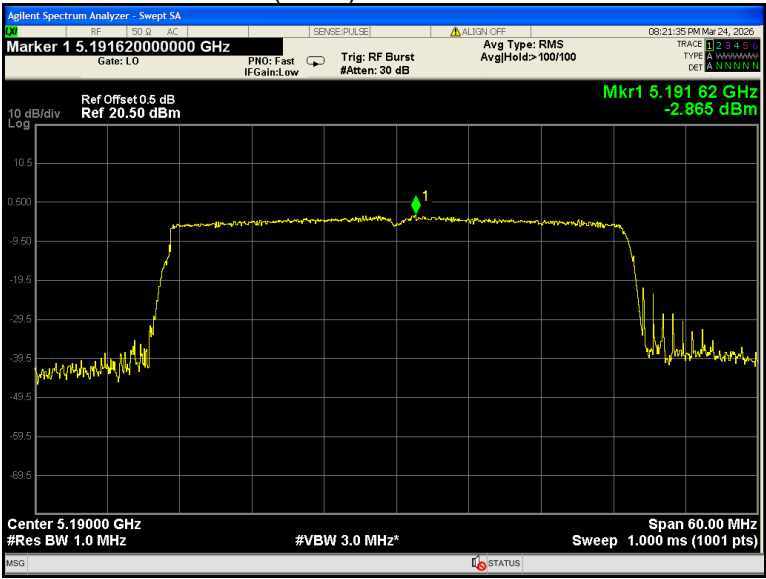
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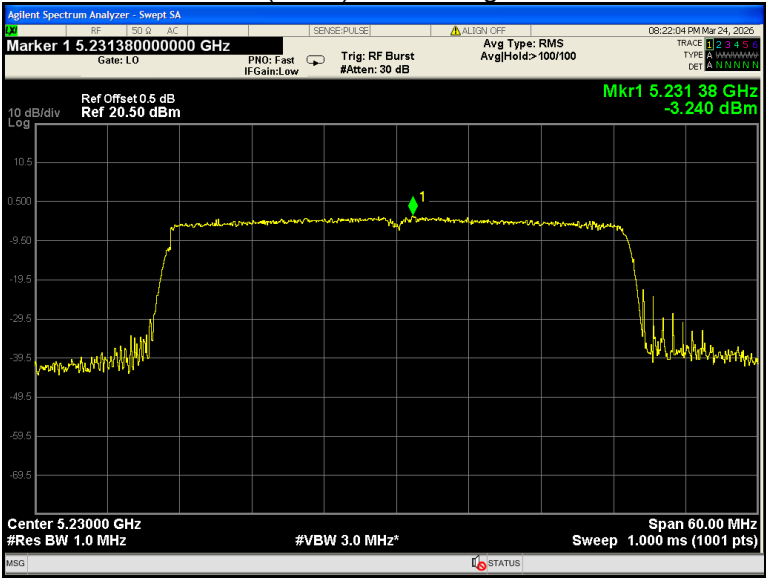
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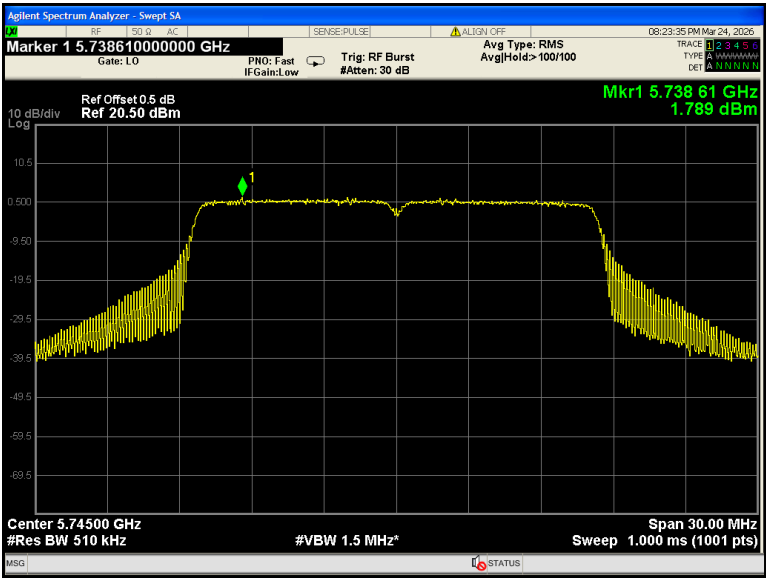
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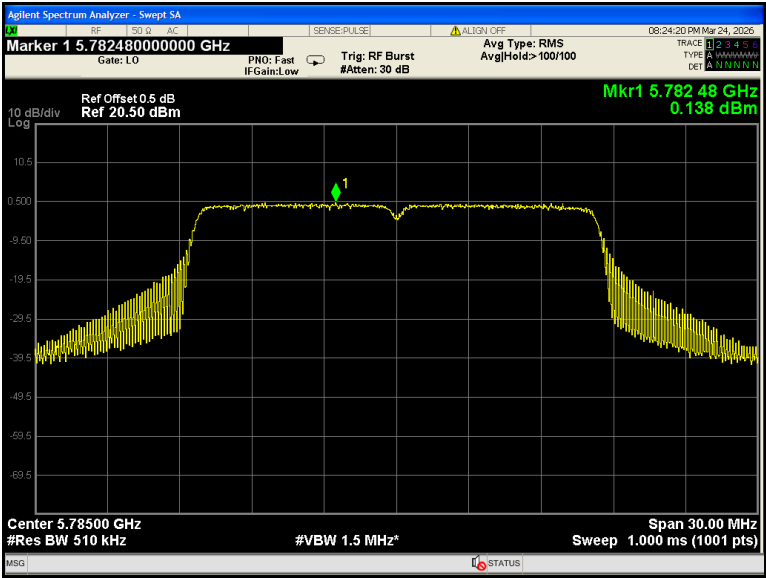
802.11ax(HE40) U-NII-1 High channel



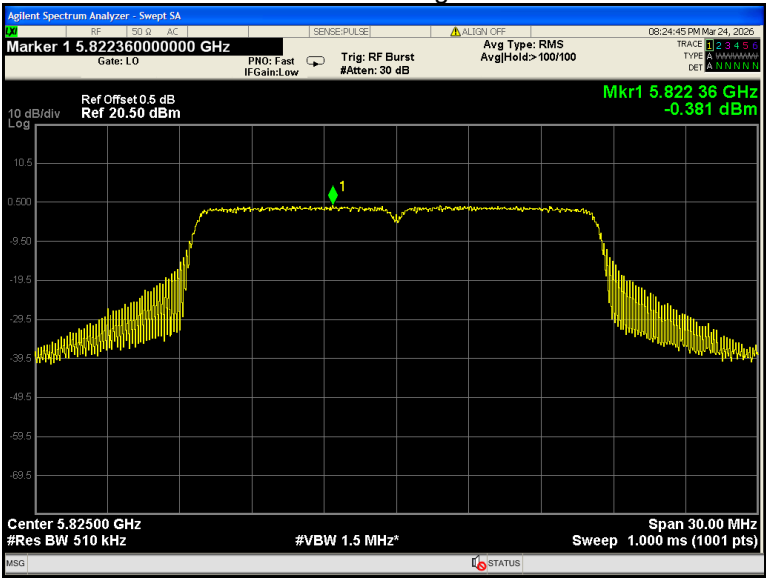
802.11a U-NII-3 Low channel



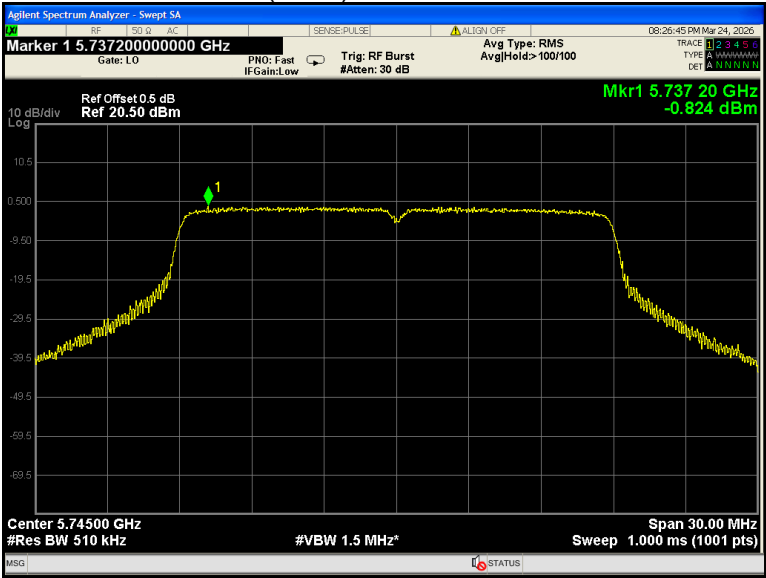
802.11a U-NII-3 Middle channel



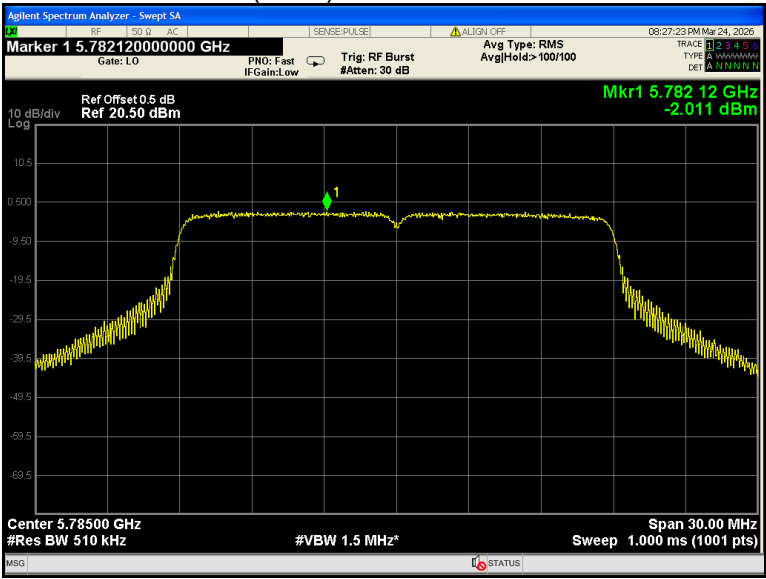
802.11a U-NII-3 High channel



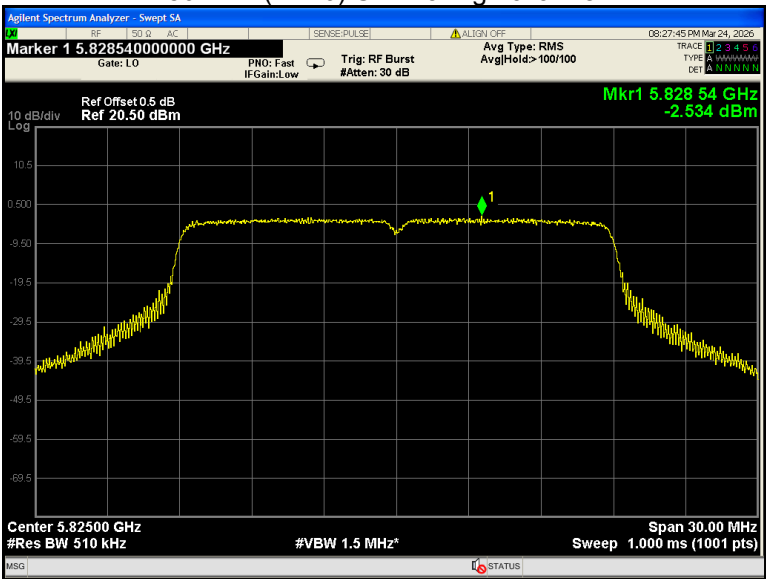
802.11n(HT20) U-NII-3 Low channel



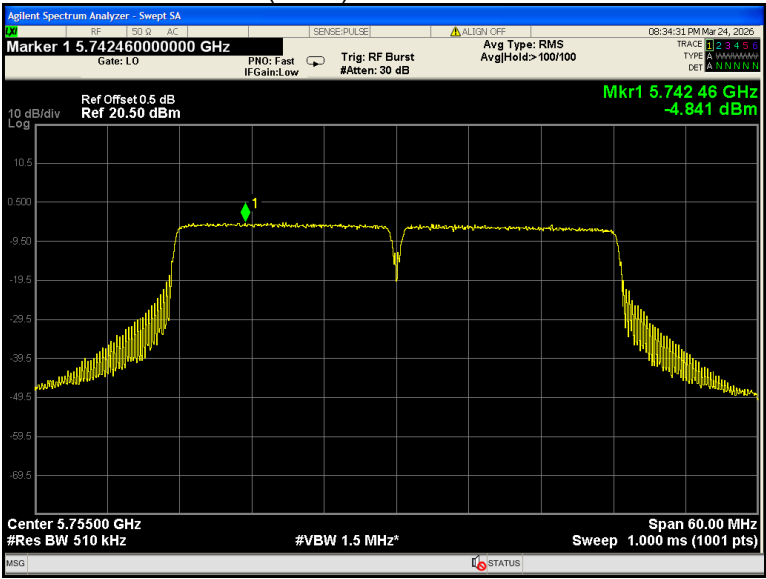
802.11n(HT20) U-NII-3 Middle channel



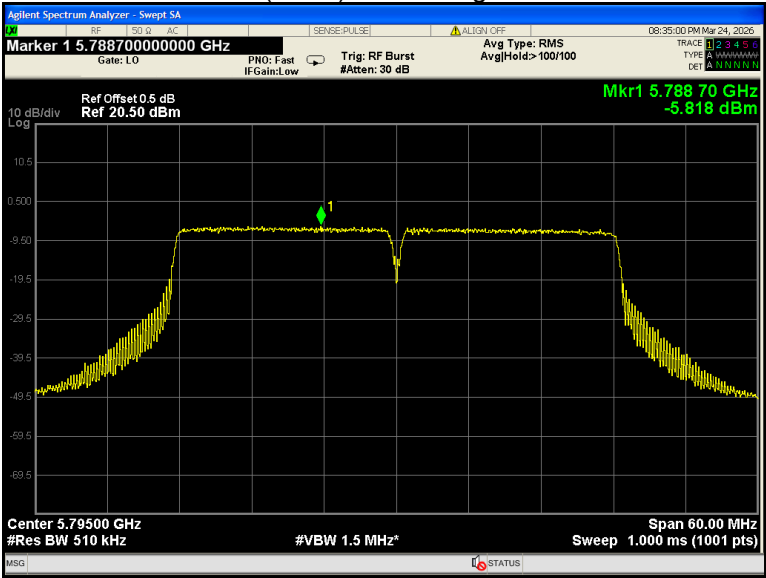
802.11n(HT20) U-NII-3 High channel



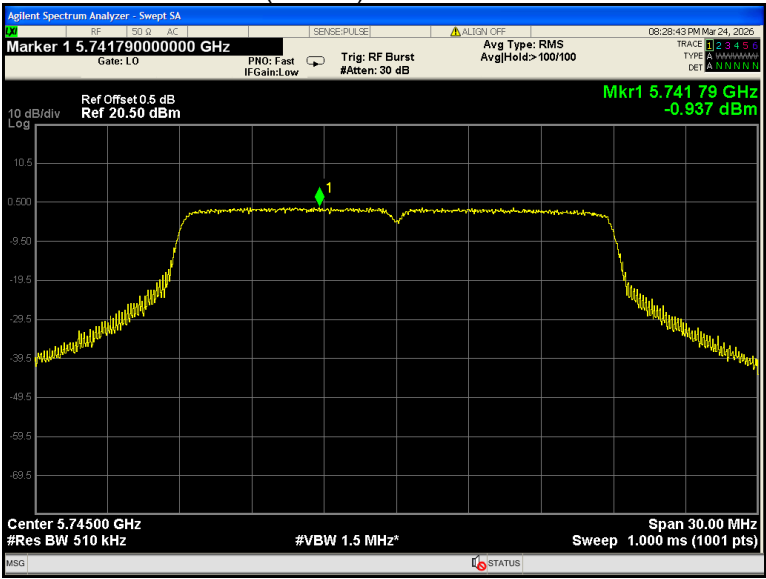
802.11n(HT40) U-NII-3 Low channel



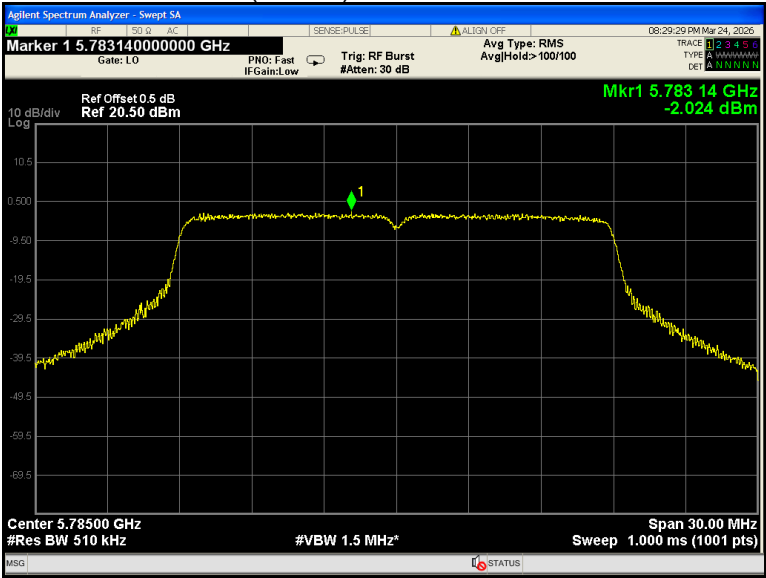
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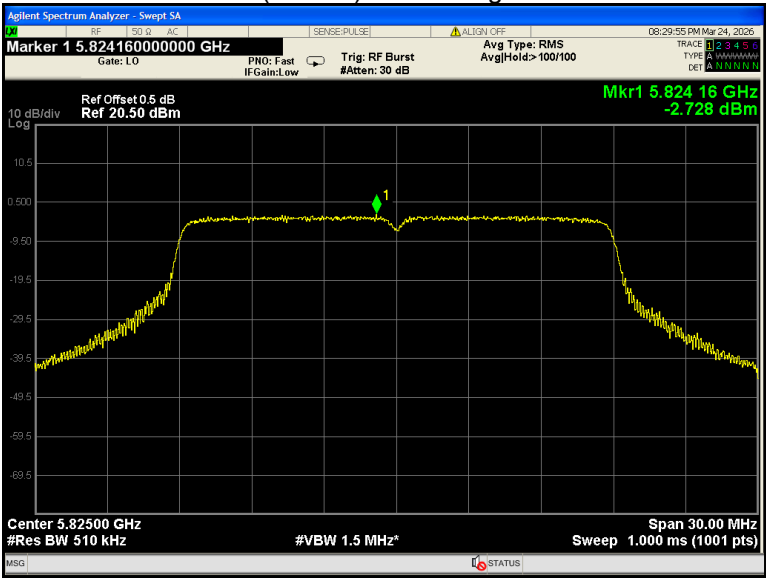
802.11ac(VHT20) U-NII-3 Low channel



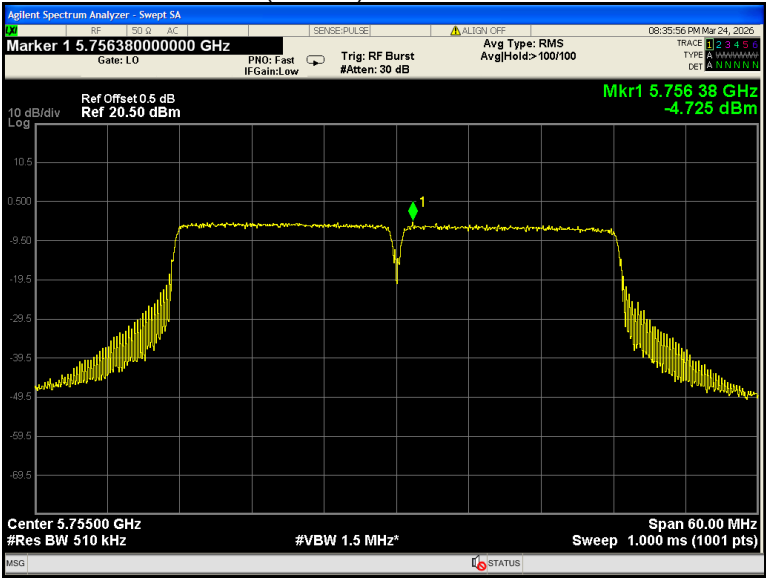
802.11ac(VHT20) U-NII-3 Middle channel



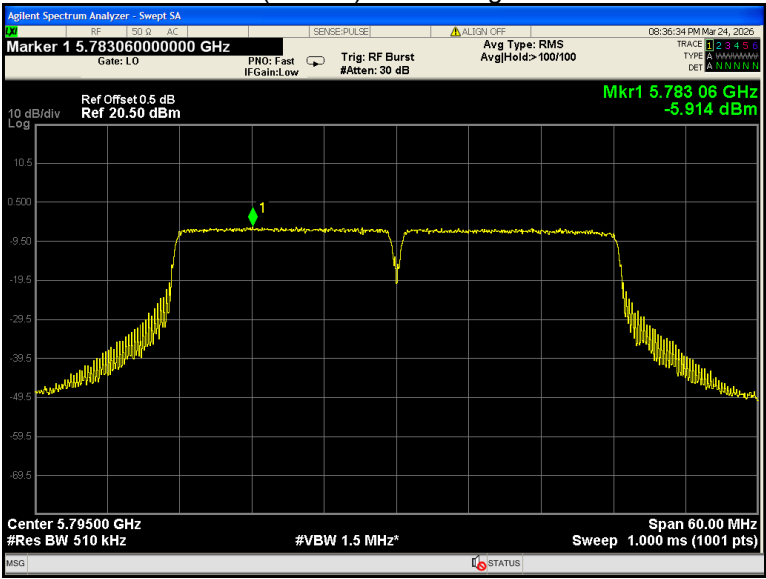
802.11ac(VHT20) U-NII-3 High channel



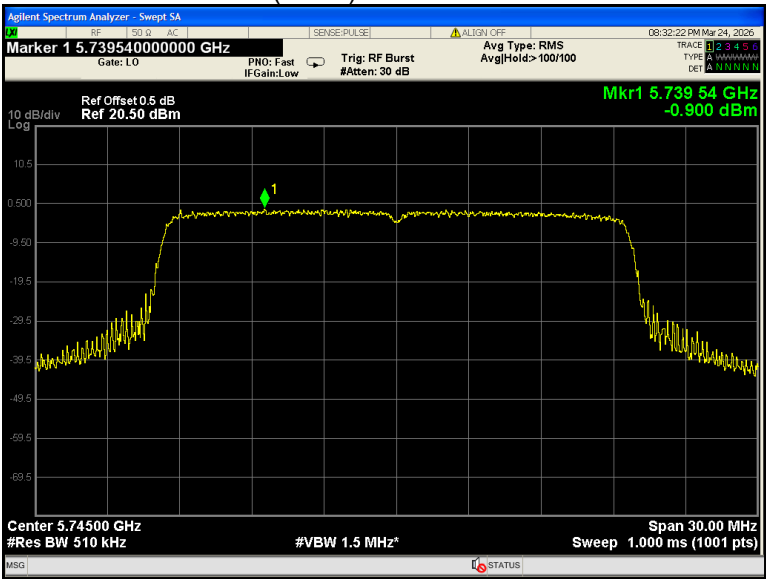
802.11ac(VHT40) U-NII-3 Low channel



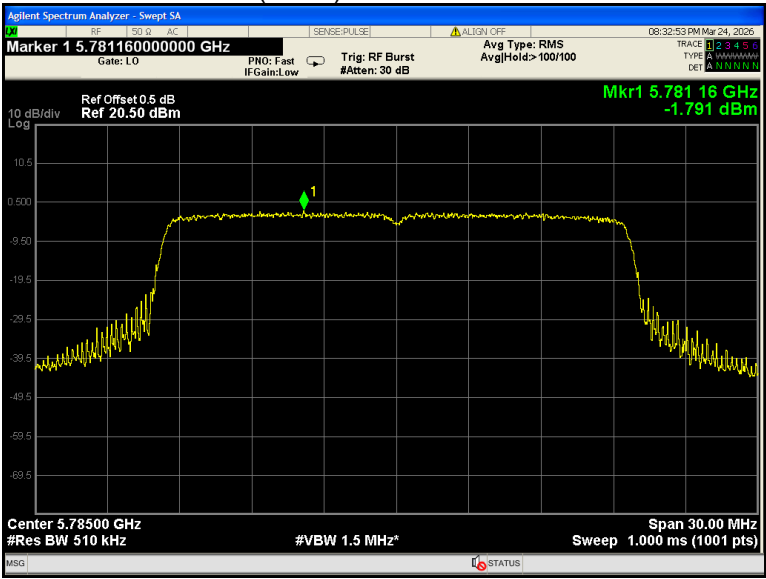
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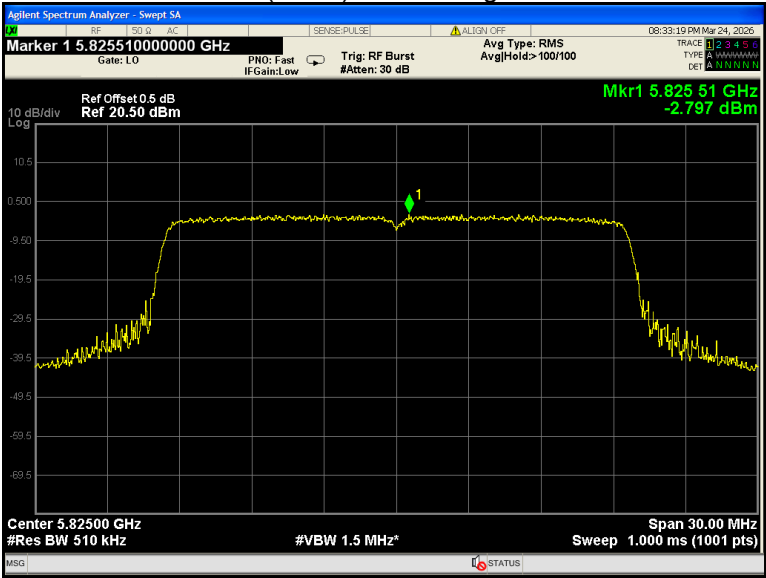
802.11ax(HE20) U-NII-3 Low channel



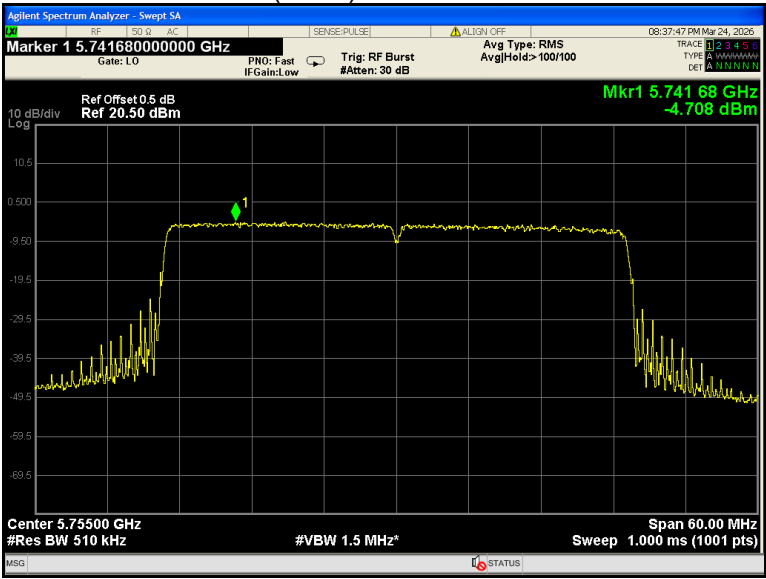
802.11ax(HE20) U-NII-3 Middle channel



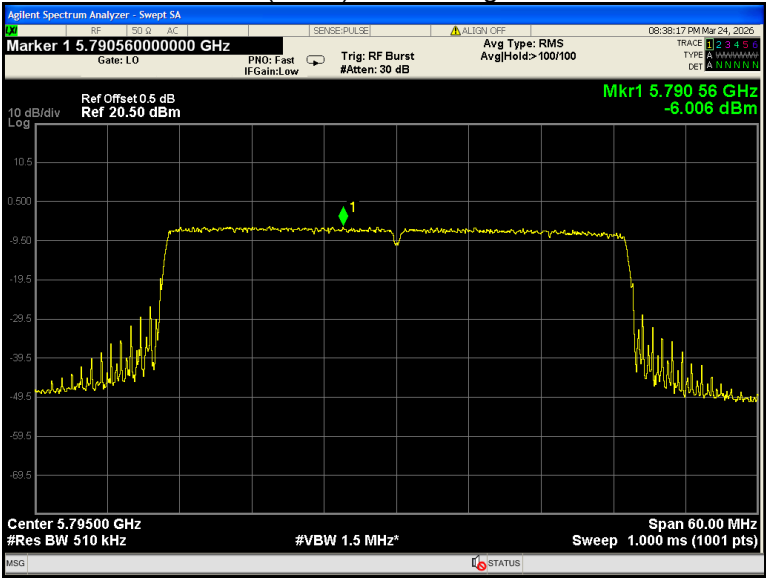
802.11ax(HE20) U-NII-3 High channel



802.11ax(HE40) U-NII-3 Low channel



802.11ax(HE40) U-NII-3 High channel



15 Frequency Stability

Test Requirement:	FCC 47CFR Part 15 Section 15.407(g)
Test Method:	ANSI C63.10-2020
Test Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual or 20ppm.
Test Result:	PASS

15.1 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
EUT have transmitted absence of unmodulation signal and fixed channelise. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
2. Extreme temperature rule is 0°C~ 50°C.

15.2 Test Result

U-NII-1 Test Frequency:5180MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit (ppm)
50	3.6	0.0013	2.08	20
45		0.0024	3.88	20
30		-0.0053	-8.66	20
20		0.0000	0.00	20
10		-0.0073	-12.02	20
0		-0.0065	-10.63	20
20	3.24	-0.0002	-0.32	20
20	3.96	-0.0007	-1.18	20

U-NII-3 Test Frequency:5785MHz				
Temperature (°C)	Power Supply (VAC)	Frequency Error (MHz)	Frequency Error (ppm)	Limit (ppm)
50	3.6	0.0085	13.98	20
45		0.0027	4.37	20
30		0.0015	2.51	20
20		0.0023	3.77	20
10		-0.0015	-2.47	20
0		0.0015	2.38	20
20	3.24	0.0057	9.27	20
20	3.96	0.0065	10.72	20

16 Antenna Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

This product has a Monopole Antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

17 RF Exposure

Remark: refer to RF Exposure Report: WTH26D03056304W006.

18 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-NB-CMA08-Photos.

=====End of Report=====