

TEST REPORT

Reference No. : WTD25D07189956W005
FCC ID..... : 2AIDGTV-240SD
Applicant..... : General Sound Corporation
Address : 736 E 29th Street, Los Angeles, CA 90011, United States
Manufacturer : Huizhou Gold Alliance Electronics Co., LTD.
Address : 11 Changlong Road, Daling, Huidong, Huizhou, Guangdong Province, China
Product..... : 23.8 inch LED TV
Model(s)..... : PDVA-PR8238602YBI, TV-240SD, ATSC-PR8238602YBI, TV-2450S
Standards..... : CFR47 FCC Part 15 E Section 15.407
Date of Receipt Sample : 2025-07-18
Date of Test..... : 2025-07-22 to 2025-07-30
Date of Issue : 2025-08-20
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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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD25D07189956W005	2025-07-18	2025-07-22 to 2025-07-30	2025-08-20	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product: 23.8 inch LED TV

Model(s): PDVA-PR8238602YBI, TV-240SD, ATSC-PR8238602YBI, TV-2450S

Model Description: Only the model names and brand names are different.
With DVD: PDVA-PR8238602YBI, TV-240SD.
Without DVD: ATSC-PR8238602YBI, TV-2450S
Model TV-240SD was tested in the report.

Test Sample No.: 1-1/1

Wi-Fi Specification: 5G-802.11a/n(HT20/40)/ac(VHT20/40/80)

Hardware Version: TPD.SK331.PB802 D24128

Software Version: 506301755

4.2 Details of E.U.T.

Operation Frequency: 802.11a/n(HT20)/ac(VHT20):
U-NII-1: 5180-5240MHz, U-NII-2A: 5260-5320MHz(DFS),
U-NII-2C: 5500-5700MHz(DFS), U-NII-3: 5745-5825MHz
802.11n(HT40)/ac(VHT40):
U-NII-1: 5190-5230MHz, U-NII-2A: 5270-5310MHz(DFS),
U-NII-2C: 5510-5670MHz(DFS), U-NII-3: 5755-5795MHz
802.11ac(VHT80):
U-NII-1: 5210MHz, U-NII-2A: 5290MHz(DFS),
U-NII-2C: 5530-5610MHz(DFS), U-NII-3: 5775MHz

Conducted output power: U-NII-1:
Ant.1: 17.11dBm, Ant.2: 17.76dBm, Total: 19.44dBm Max.
U-NII-2A:
Ant.1: 16.41dBm, Ant.2: 17.18dBm, Total: 18.72dBm Max.
U-NII-2C:
Ant.1: 16.93dBm, Ant.2: 17.90dBm, Total: 18.90dBm Max.
U-NII-3:
Ant.1: 16.76dBm, Ant.2: 16.71dBm, Total: 18.63dBm Max.

Type of Modulation: OFDM

Antenna installation: internal permanent antenna

Quantity of Antenna: 2

Antenna Gain:

Operation Frequencies (MHz) /Antenna Gain (dBi)				
2400~2500	5150~5250	5250~5350	5470~5725	5725~5850
3.99	4.02	4.02	3.64	3.87

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: AC 100-240V~50/60Hz or DC 12V = 3.5A

DFS Function: Slave without radar detection

TPC Function: Not support

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-2A (5.25-5.35GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	54	5270
56	5280	58	5290
60	5300	62	5310
64	5320		

U-NII-2C (5.47-5.725GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	102	5510
104	5520	106	5530
108	5540	110	5550
112	5560	116	5580
118	5590	120	5600
122	5610	124	5620
126	5630	128	5640
132	5660	134	5670
136	5680	140	5700

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):

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

channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	56	5280
64	5320		

channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	120	5600
140	5700		

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

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

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

channel	Frequency(MHz)	channel	Frequency(MHz)
54	5270	62	5310

channel	Frequency(MHz)	channel	Frequency(MHz)
102	5510	110	5550
134	5670		

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

For 802.11ac(VHT80):

channel	Frequency(MHz)	channel	Frequency(MHz)
42	5210		

channel	Frequency(MHz)	channel	Frequency(MHz)
58	5290		

channel	Frequency(MHz)	channel	Frequency(MHz)
106	5530	122	5610

channel	Frequency(MHz)	channel	Frequency(MHz)
155	5775		

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.

Test Items	Mode	Data Rate	TX/RX
Radiated Emissions	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
	802.11ac(VHT20/40/80)	MCS0	TX
Duty Cycle	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
	802.11ac(VHT20/40/80)	MCS0	TX
Band Edge	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
	802.11ac(VHT20/40/80)	MCS0	TX
6dB Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
	802.11ac(VHT20/40/80)	MCS0	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
	802.11ac(VHT20/40/80)	MCS0	TX
Conducted Output Power	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
	802.11ac(VHT20/40/80)	MCS0	TX
Power Spectral Density	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
	802.11ac(VHT20/40/80)	MCS0	TX
Frequency Stability	Un-modulation	/	TX

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.

4.6 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.7 Abnormalities from Standard Conditions

None.

5 Equipment Used during Test

5.1 Equipments List

Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMI Test Receiver	R&S	ESCI	100947	2025-07-04	2026-07-03
2	LISN	R&S	ENV216	100115	2025-07-04	2026-07-03
3	Cable	Top	TYPE16(3.5M)	-	2025-06-03	2026-06-02
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
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	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2025-07-20	2026-07-19
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2025-04-19	2026-04-18
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2025-01-17	2026-01-16
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2025-04-19	2026-04-18
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2025-04-19	2026-04-18
8	Coaxial Cable (above 1GHz)	ZT26-NJ-NJ-8M/FA	1GHz-18GHz	NA	2024-04-22	2025-04-21
9	Microwave Broadband Preamplifier	SCHWARZBECK	BBV 9721	100472	2025-07-04	2026-07-03
10	Spectrum Analyzer	R&S	FSP40	100501	2025-07-04	2026-07-03
11	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2025-07-04	2026-07-03
12	Test software	EZ-EMC	RA-03A1-1	-	N/A	N/A
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2024-11-04	2025-11-03
3	Active Loop Antenna	Com-Power Corp.	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 Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
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
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 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)

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R. China.

6 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a) 15.407(b)(9)	PASS
Radiated Emissions	15.407(b) (9) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	PASS
6dB Bandwidth	15.407(e)	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)(l)	PASS
Restricted bands around fundamental frequency	15.407(b)	PASS
Frequency stability	15.407(g)	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+A1-2024
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 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	1.389	1.437	0.97	96.66	0.15	-0.30
U-NII-1 802.11n(HT20)	1.294	1.342	0.96	96.42	0.16	-0.32
U-NII-1 802.11n(HT40)	0.649	0.691	0.94	93.92	0.27	-0.54
U-NII-1 802.11ac(VHT20)	1.309	1.367	0.96	95.76	0.19	-0.38
U-NII-1 802.11ac(VHT40)	0.653	0.695	0.94	93.96	0.27	-0.54
U-NII-1 802.11ac(VHT80)	0.324	0.367	0.88	88.28	0.54	-1.08
U-NII-2A 802.11a	1.389	1.437	0.97	96.66	0.15	-0.30
U-NII-2A 802.11n(HT20)	1.299	1.347	0.96	96.44	0.16	-0.32
U-NII-2A 802.11n(HT40)	0.648	0.692	0.94	93.64	0.29	-0.57
U-NII-2A 802.11ac(VHT20)	1.304	1.362	0.96	95.74	0.19	-0.38
U-NII-2A 802.11ac(VHT40)	0.652	0.696	0.94	93.68	0.28	-0.57
U-NII-2A 802.11ac(VHT80)	0.324	0.368	0.88	88.04	0.55	-1.11
U-NII-2C 802.11a	1.389	1.433	0.97	96.93	0.14	-0.27
U-NII-2C 802.11n(HT20)	1.294	1.343	0.96	96.35	0.16	-0.32
U-NII-2C 802.11n(HT40)	0.646	0.692	0.93	93.35	0.30	-0.60
U-NII-2C 802.11ac(VHT20)	1.304	1.353	0.96	96.38	0.16	-0.32
U-NII-2C 802.11ac(VHT40)	0.652	0.696	0.94	93.68	0.28	-0.57
U-NII-2C 802.11ac(VHT80)	0.323	0.367	0.88	88.01	0.55	-1.11

U-NII-3 802.11a	1.392	1.442	0.97	96.53	0.15	-0.31
U-NII-3 802.11n(HT20)	1.302	1.347	0.97	96.66	0.15	-0.30
U-NII-3 802.11n(HT40)	0.648	0.692	0.94	93.64	0.29	-0.57
U-NII-3 802.11ac(VHT20)	1.312	1.362	0.96	96.33	0.16	-0.32
U-NII-3 802.11ac(VHT40)	0.652	0.696	0.94	93.68	0.28	-0.57
U-NII-3 802.11ac(VHT80)	0.324	0.368	0.88	88.04	0.55	-1.11

Remark:

Duty cycle=On Time/period;

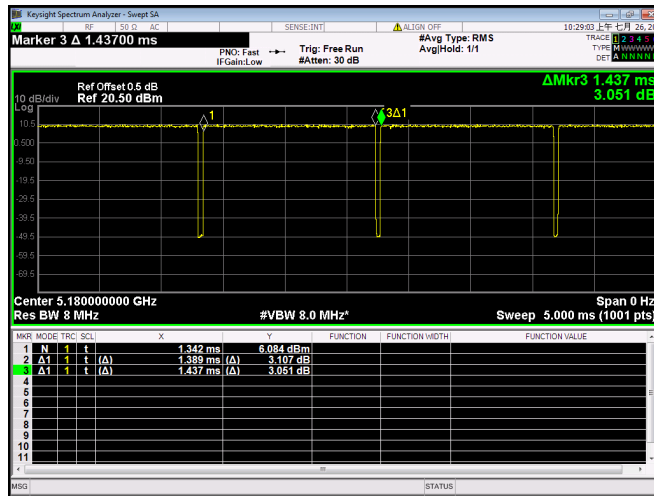
Duty cycle factor= $10 \cdot \log(1/\text{Duty cycle})$;

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

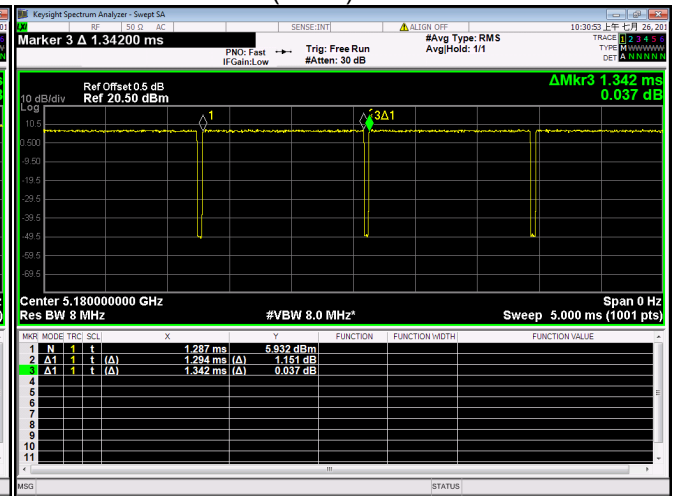
Test result plots shown as follows:

U-NII-1

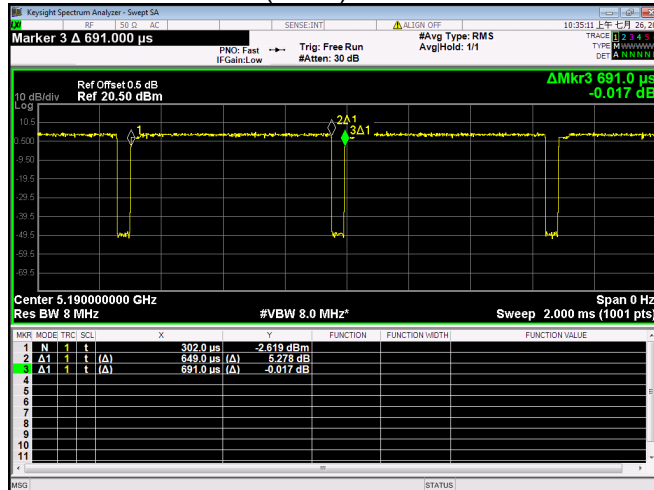
802.11a Low channel



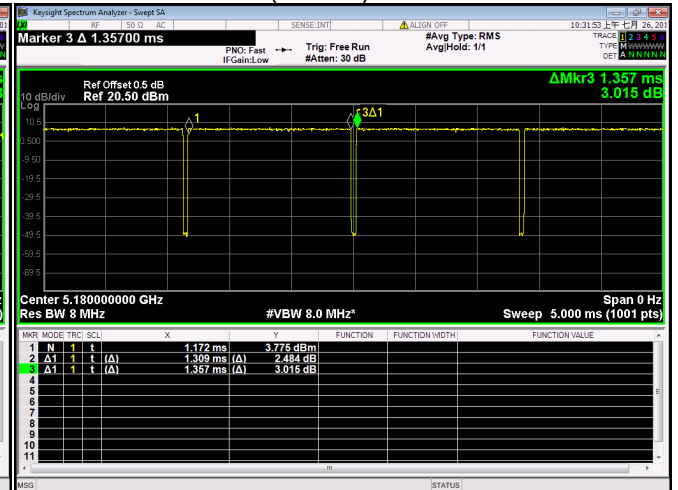
802.11n(HT20) Low channel



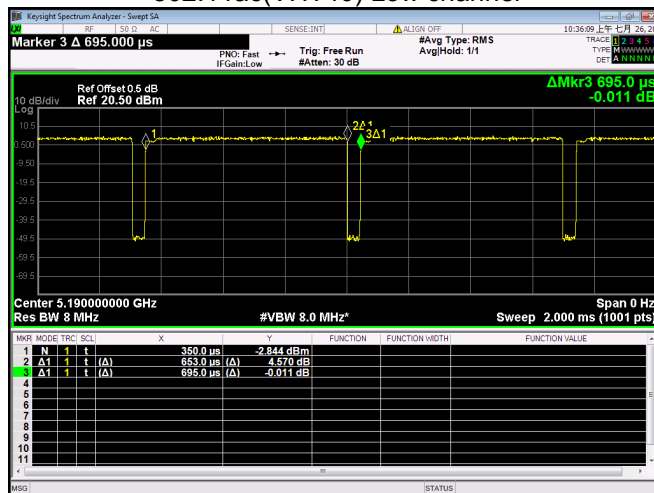
802.11n(HT40) Low channel



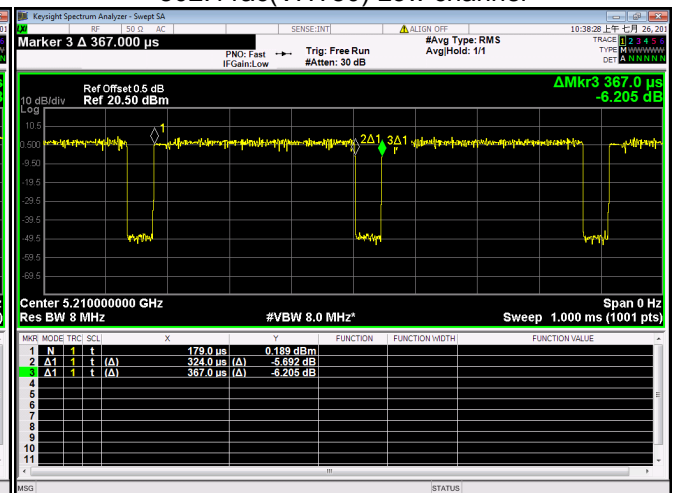
802.11ac(VHT20) Low channel



802.11ac(VHT40) Low channel

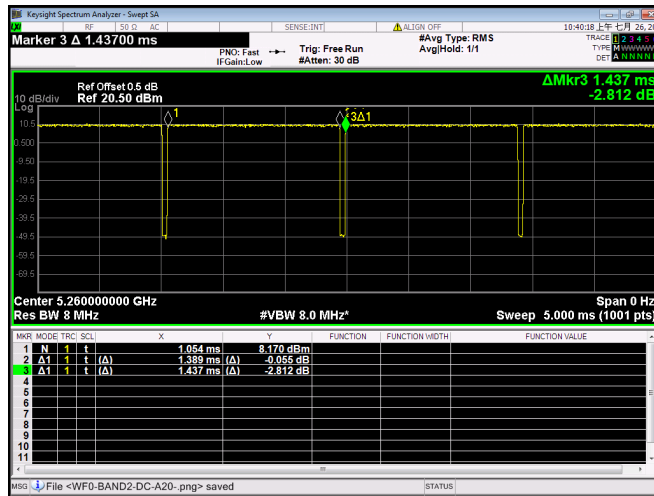


802.11ac(VHT80) Low channel

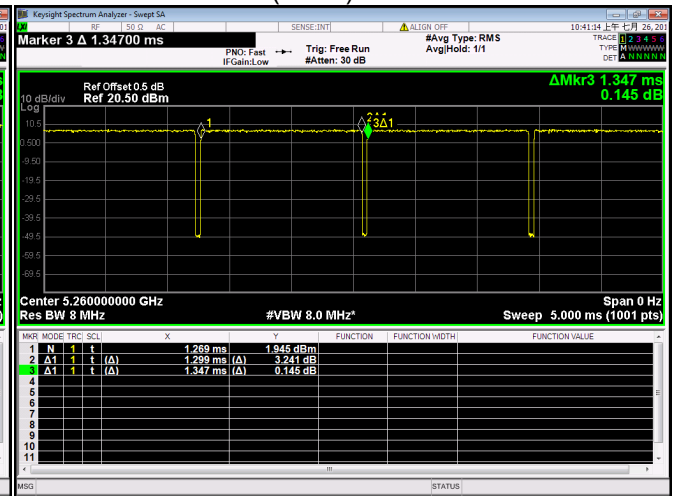


U-NII-2A

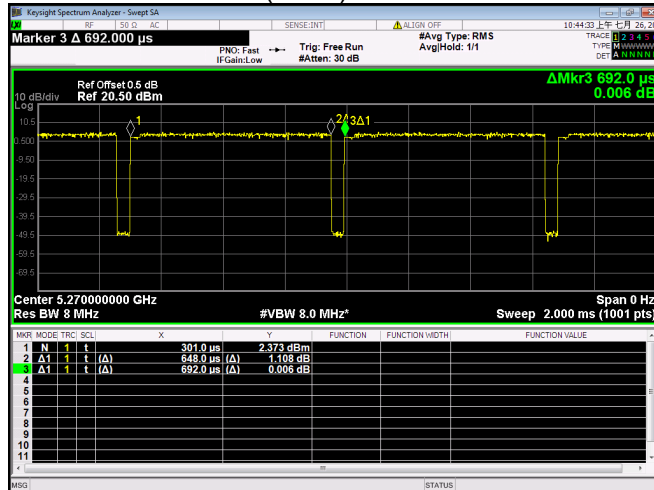
802.11a Low channel



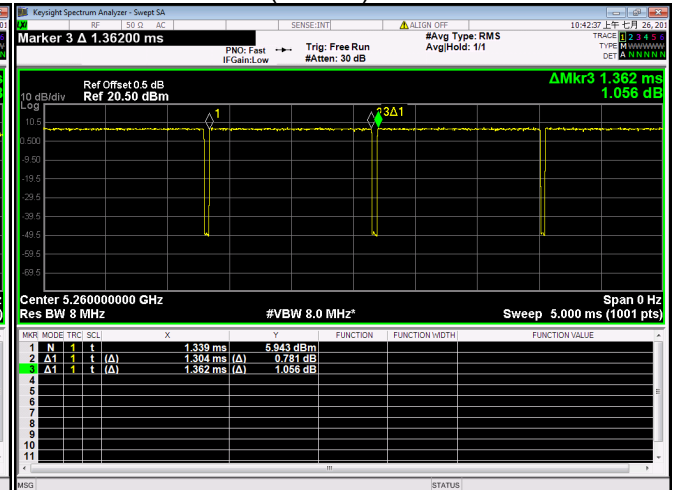
802.11n(HT20) Low channel



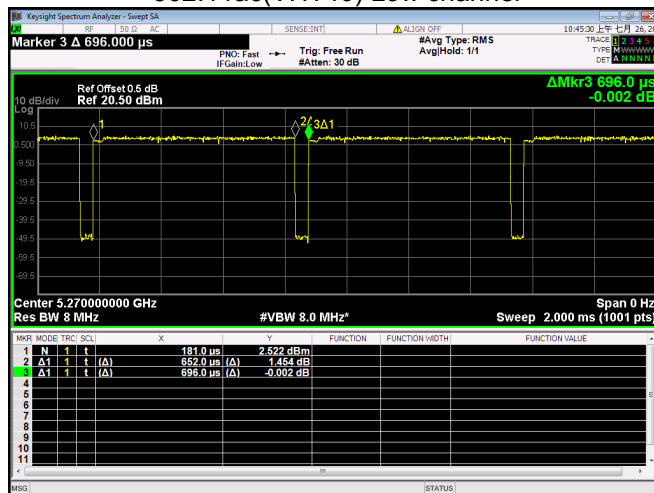
802.11n(HT40) Low channel



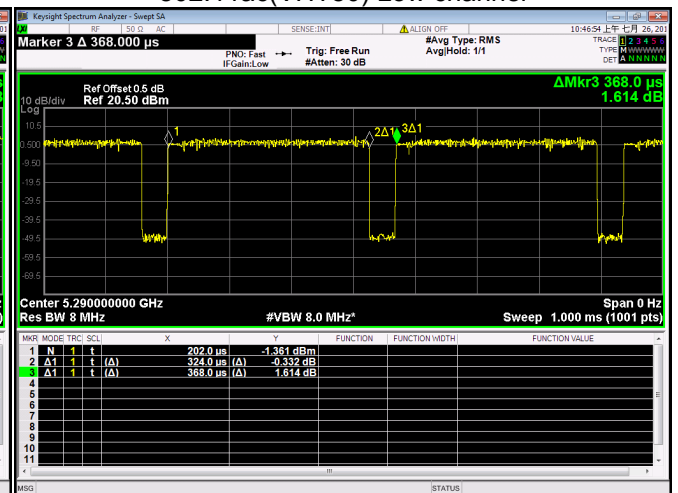
802.11ac(VHT20) Low channel



802.11ac(VHT40) Low channel

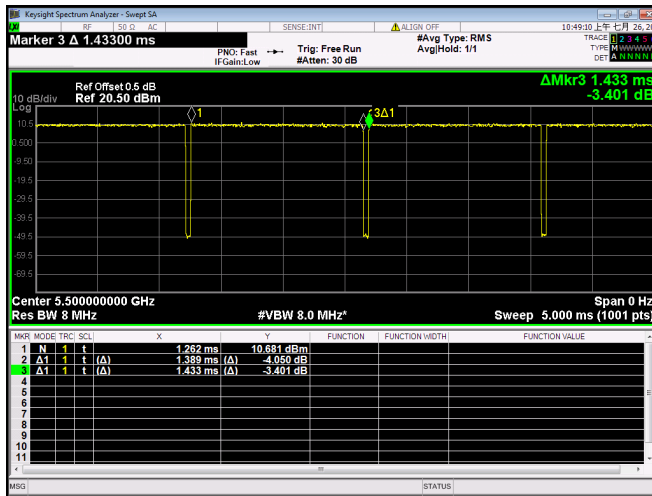


802.11ac(VHT80) Low channel

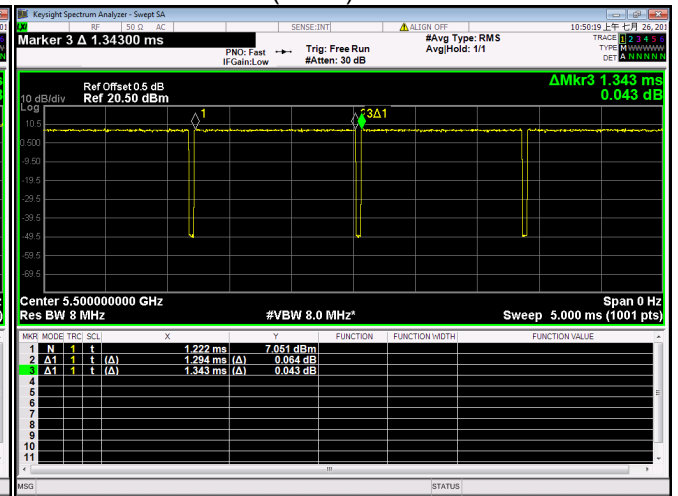


U-NII-2C

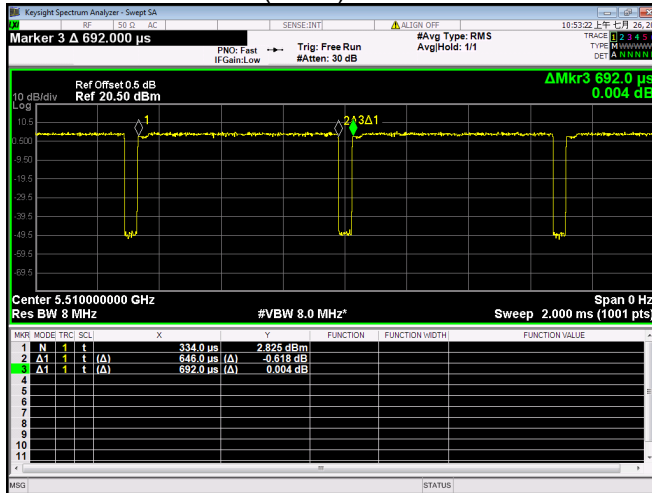
802.11a Low channel



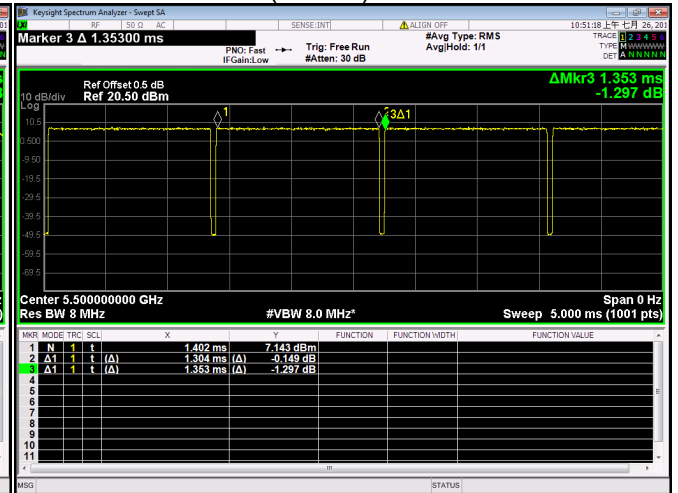
802.11n(HT20) Low channel



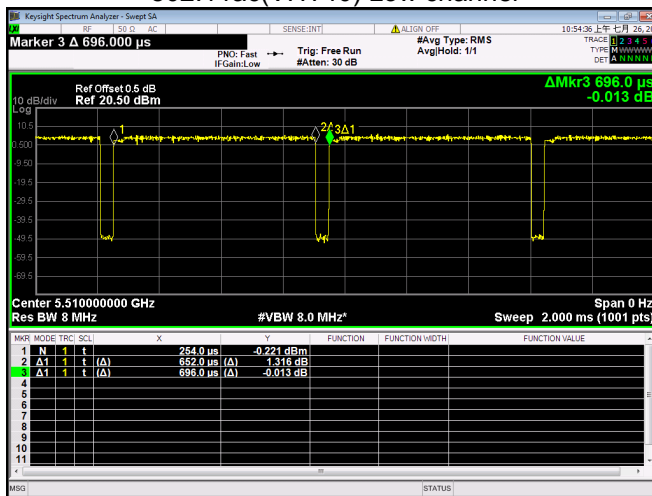
802.11n(HT40) Low channel



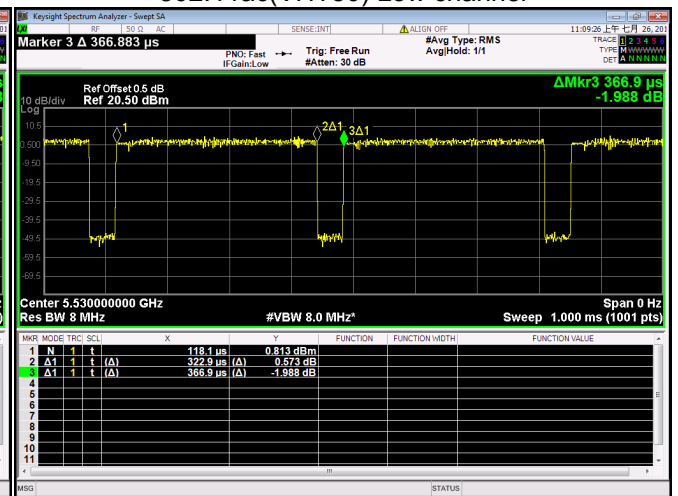
802.11ac(VHT20) Low channel



802.11ac(VHT40) Low channel

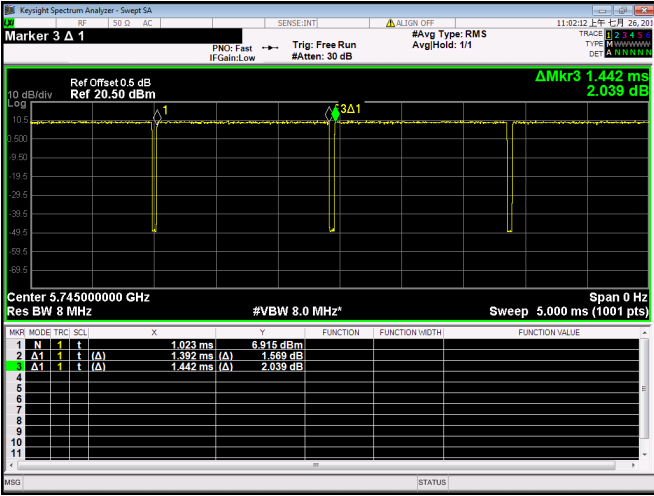


802.11ac(VHT80) Low channel

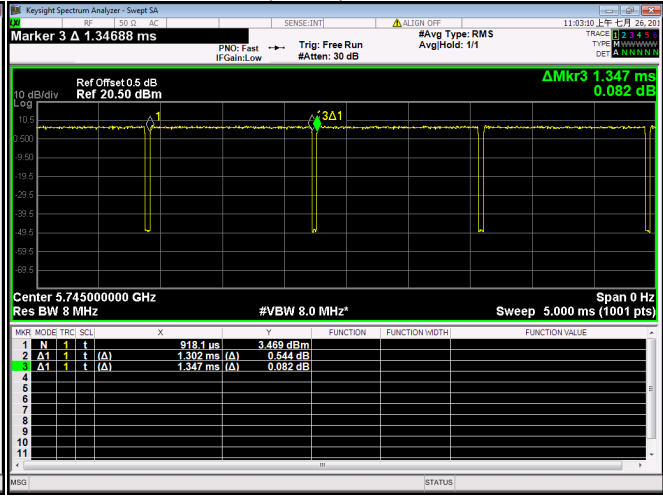


U-NII-3

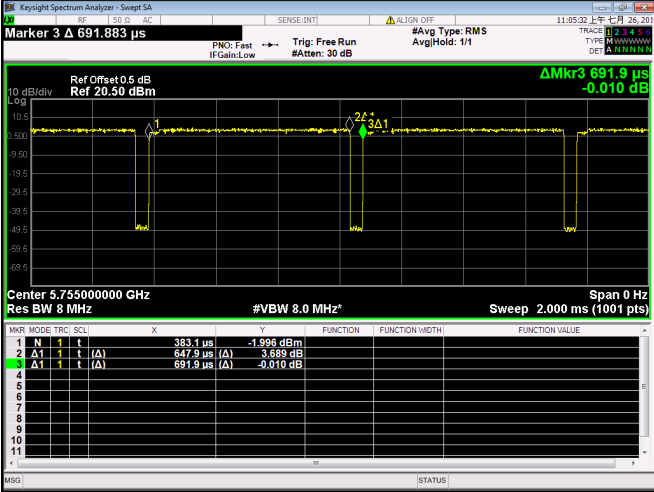
802.11a Low channel



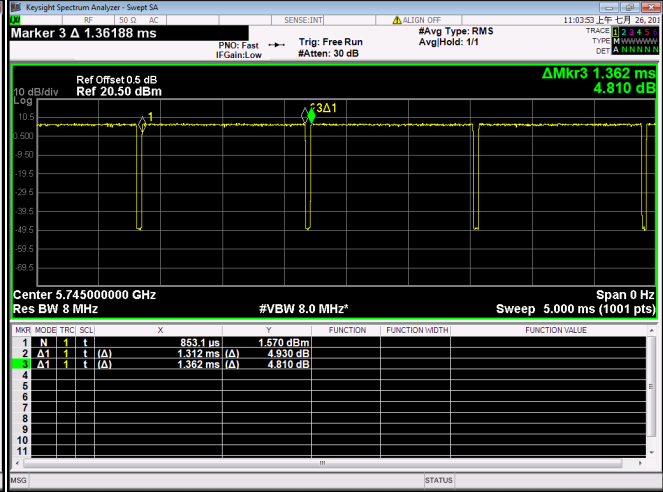
802.11n(HT20) Low channel



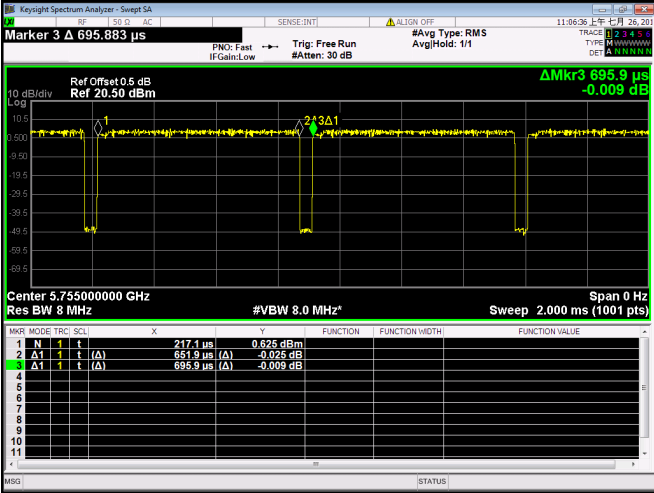
802.11n(HT40) Low channel



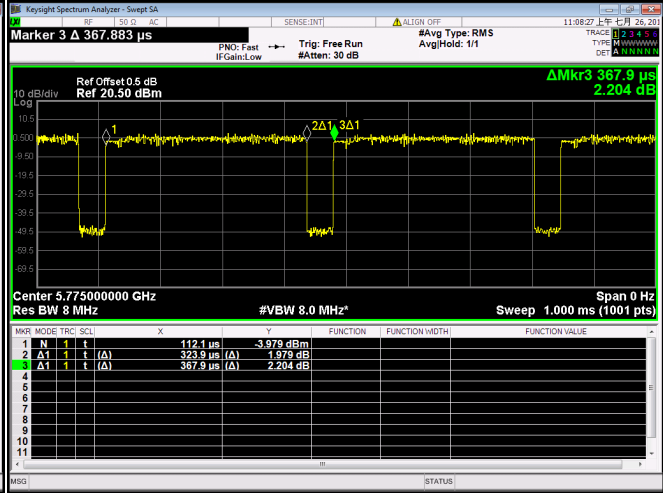
802.11ac(VHT20) Low channel



802.11ac(VHT40) Low channel



802.11ac(VHT80) Low channel



8 Conducted Emission

Test Requirement: 47CFR FCC Part15 Subpart C §15.207
Test Method: ANSI C63.10-2020+A1-2024
Test Result: PASS
Frequency Range: 150kHz to 30MHz
Limit:

Frequency (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
*Decreases with the logarithm of the frequency.		

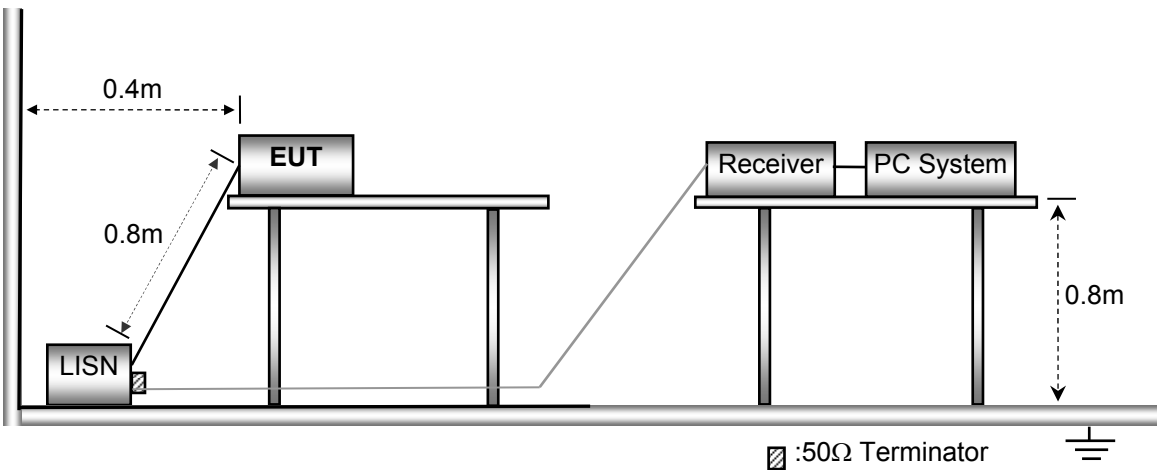
8.1 E.U.T. Operation

Operating Environment:
Temperature: 25.6 °C
Humidity: 52.6% RH
Atmospheric Pressure: 101.2kPa

EUT Operation:
The test was performed in Transmitting mode, the worst test data were shown in the report.

8.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020+A1-2024.



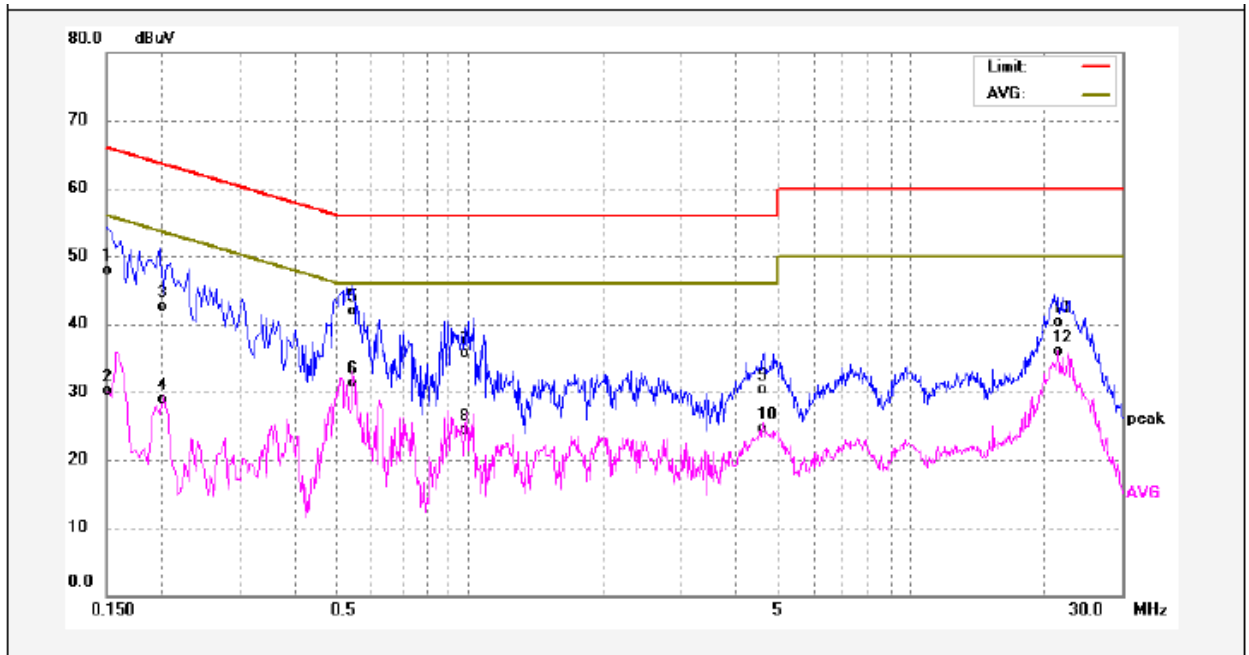
8.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

8.4 Conducted Emission Test Result

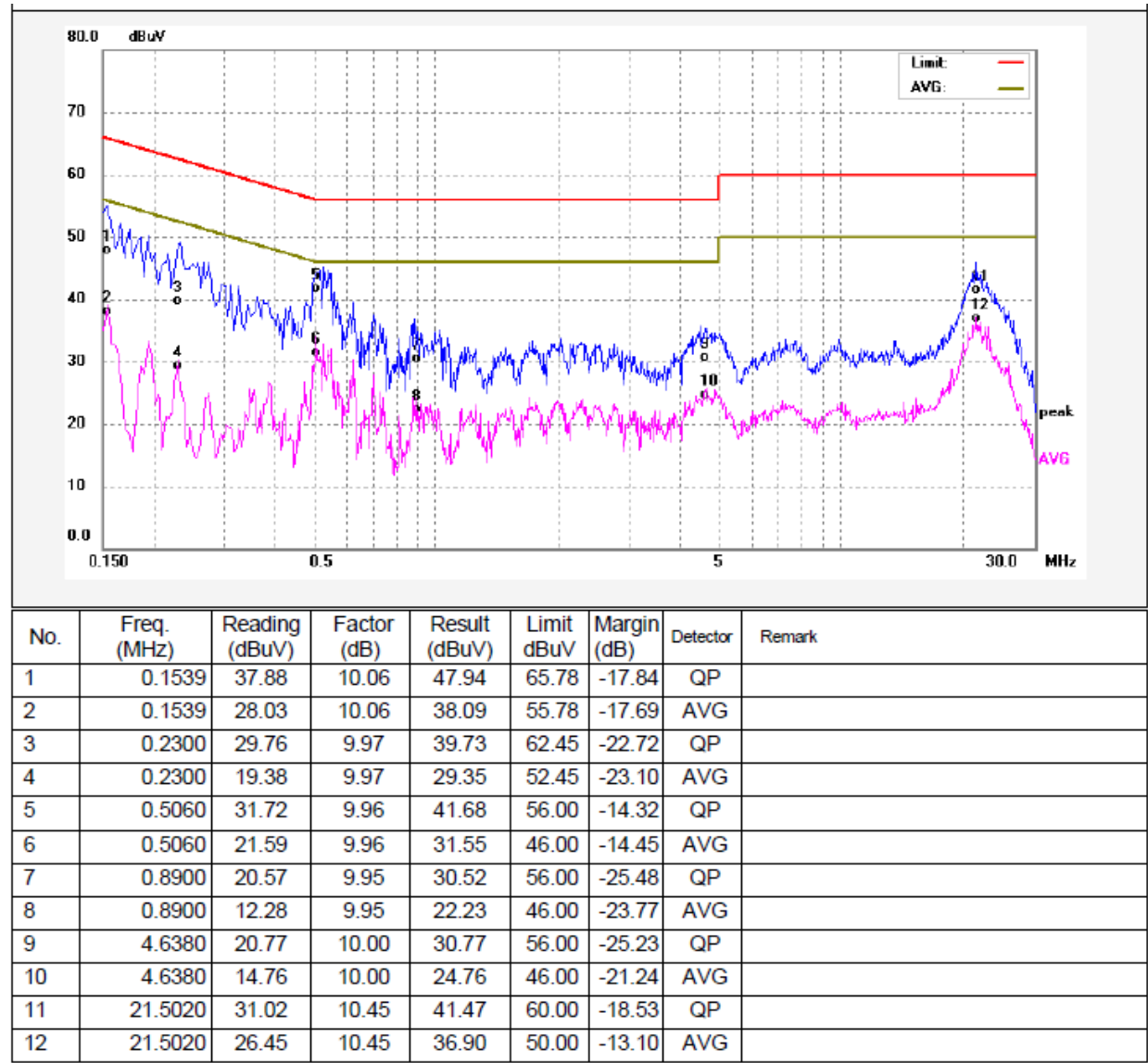
Remark: An initial pre-scan was performed on the live and neutral lines, only the worst data (U-NII-1 802.11n(HT20) mode High channel mode) were reported.

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1500	37.71	10.21	47.92	65.99	-18.07	QP	
2	0.1500	19.96	10.21	30.17	55.99	-25.82	AVG	
3	0.2020	32.49	9.95	42.44	63.52	-21.08	QP	
4	0.2020	18.86	9.95	28.81	53.52	-24.71	AVG	
5	0.5420	31.99	9.97	41.96	56.00	-14.04	QP	
6	0.5420	21.32	9.97	31.29	46.00	-14.71	AVG	
7	0.9820	25.84	9.85	35.69	56.00	-20.31	QP	
8	0.9820	14.39	9.85	24.24	46.00	-21.76	AVG	
9	4.6060	20.41	9.96	30.37	56.00	-25.63	QP	
10	4.6060	14.49	9.96	24.45	46.00	-21.55	AVG	
11	21.5060	30.00	10.38	40.38	60.00	-19.62	QP	
12	21.5060	25.51	10.38	35.89	50.00	-14.11	AVG	

Neutral line:



9 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.407
KDB 662911 D01 Multiple Transmitter Output v02r01, October 31, 2013

Test Method: ANSI C63.10-2020+A1-2024

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(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
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: 23.8 °C

Humidity: 52.5 % RH

Atmospheric Pressure: 101.3kPa

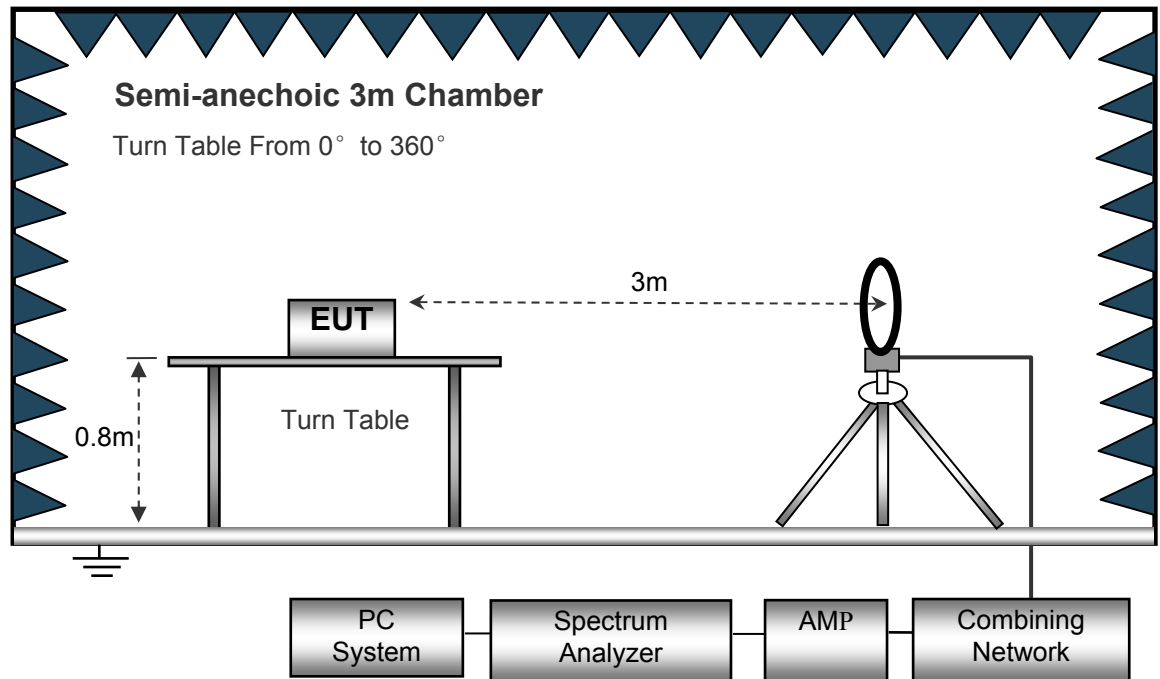
EUT Operation:

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

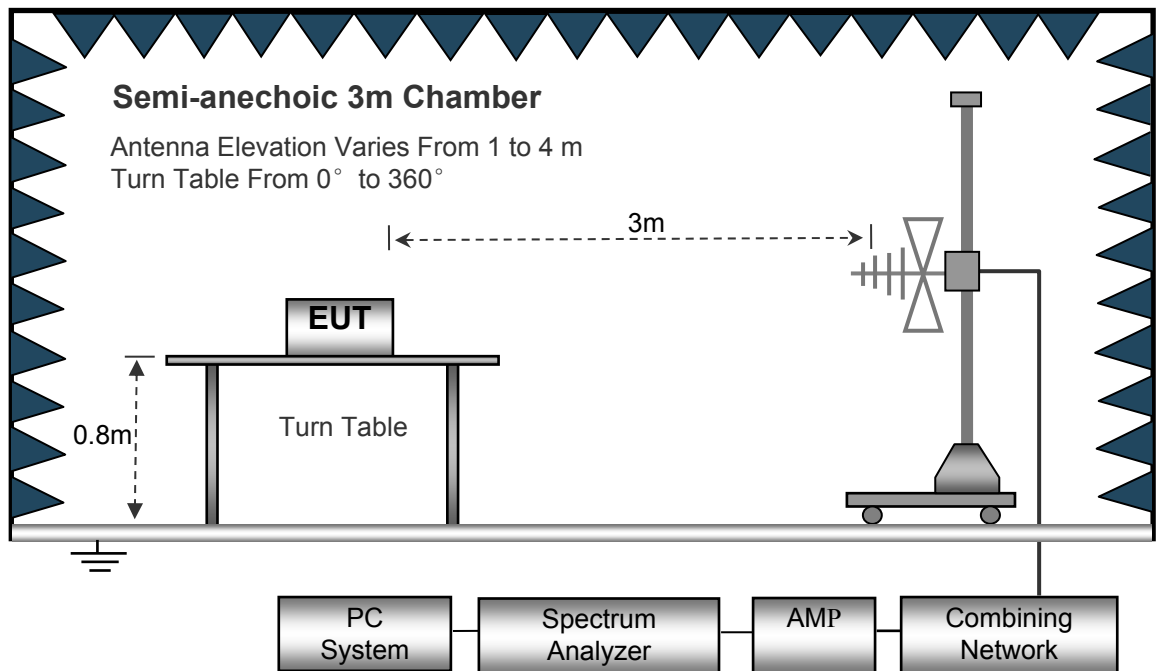
9.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10-2020+A1-2024.

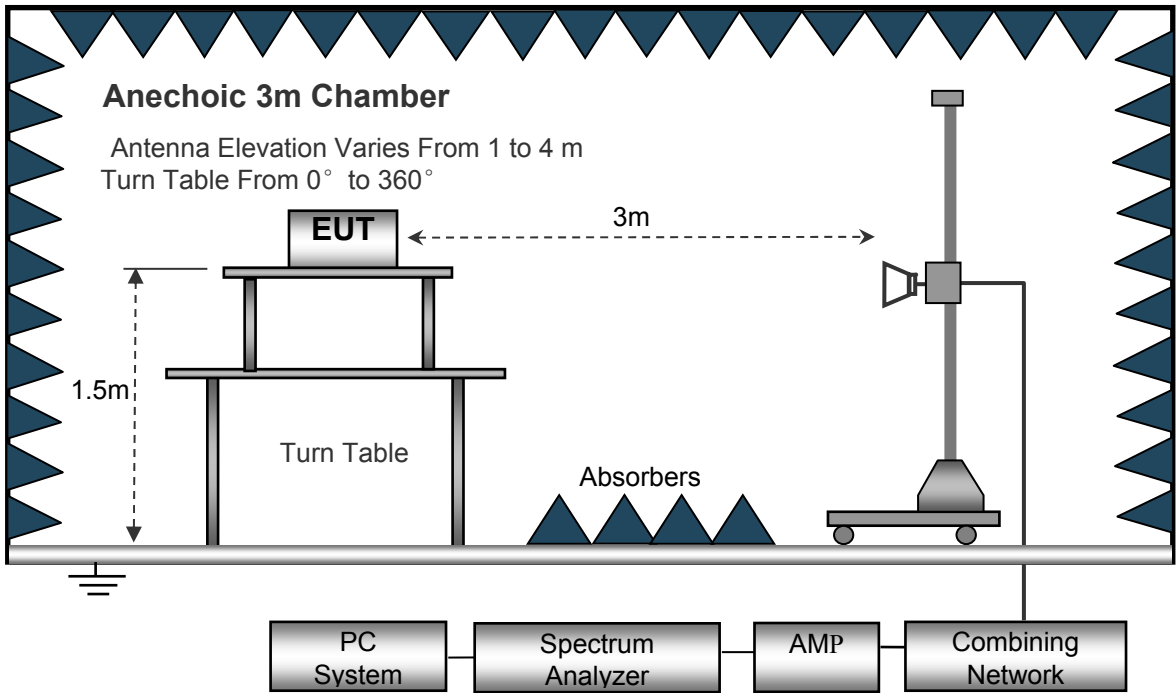
The test setup for emission measurement below 30MHz.



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

Note:

All test mode were tested, and only the worst-case were record in the report.

Test Mode: TX (Ant. 1+ Ant. 2)

Test Frequency: 9KHz~30MHz

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

Test Frequency: 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 Low Channel 5180MHz									
164.47	47.20	QP	217	1.5	H	-11.62	35.58	43.50	-7.92
164.47	44.03	QP	333	1.7	V	-11.62	32.41	43.50	-11.09
4536.38	58.49	PK	163	1.3	H	-2.03	56.46	74.00	-17.54
4536.38	43.93	Ave	163	1.3	H	-2.03	41.90	54.00	-12.10
5130.38	49.67	PK	118	1.2	H	-1.02	48.65	74.00	-25.35
5130.38	39.83	Ave	118	1.2	H	-1.02	38.81	54.00	-15.19
10360.00	41.84	PK	168	1.6	H	5.33	47.17	74.00	-26.83
10360.00	28.94	Ave	168	1.6	H	5.33	34.27	54.00	-19.73
802.11a U-NII-1 Middle channel 5200MHz									
164.47	46.85	QP	117	1.8	H	-11.62	35.23	43.50	-8.27
164.47	43.85	QP	284	1.2	V	-11.62	32.23	43.50	-11.27
4508.30	57.49	PK	171	1.1	H	-1.94	55.55	74.00	-18.45
4508.30	43.50	Ave	171	1.1	H	-1.94	41.56	54.00	-12.44
5114.84	49.86	PK	260	1.3	H	-1.06	48.80	74.00	-25.20
5114.84	40.07	Ave	260	1.3	H	-1.06	39.01	54.00	-14.99
10400.00	40.72	PK	173	1.3	H	5.21	45.93	74.00	-28.07
10400.00	27.59	Ave	173	1.3	H	5.21	32.80	54.00	-21.20

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 High channel 5240MHz									
164.47	45.93	QP	48	1.4	H	-11.62	34.31	43.50	-9.19
164.47	42.63	QP	172	1.3	V	-11.62	31.01	43.50	-12.49
4538.04	56.29	PK	149	1.1	H	-2.24	54.05	74.00	-19.95
4538.04	42.44	Ave	149	1.1	H	-2.24	40.20	54.00	-13.80
5133.04	49.40	PK	196	1.8	H	-1.09	48.31	74.00	-25.69
5133.04	39.08	Ave	196	1.8	H	-1.09	37.99	54.00	-16.01
10480.00	40.41	PK	325	2.0	H	5.14	45.55	74.00	-28.45
10480.00	27.81	Ave	325	2.0	H	5.14	32.95	54.00	-21.05
802.11a U-NII-2A Low Channel 5260MHz									
164.47	45.50	QP	239	1.6	H	-11.62	33.88	43.50	-9.62
164.47	43.17	QP	23	1.6	V	-11.62	31.55	43.50	-11.95
4533.29	53.93	PK	308	1.9	H	-2.03	51.90	74.00	-22.10
4533.29	40.44	Ave	308	1.9	H	-2.03	38.41	54.00	-15.59
5112.88	53.38	PK	257	1.0	H	-1.02	52.36	74.00	-21.64
5112.88	38.72	Ave	257	1.0	H	-1.02	37.70	54.00	-16.30
10520.00	41.41	PK	248	1.5	H	5.33	46.74	74.00	-27.26
10520.00	33.42	Ave	248	1.5	H	5.33	38.75	54.00	-15.25

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2A middle channel 5280MHz									
164.47	44.84	QP	130	1.1	H	-11.62	33.22	43.50	-10.28
164.47	42.70	QP	227	1.1	V	-11.62	31.08	43.50	-12.42
4521.58	52.53	PK	328	1.8	H	-1.94	50.59	74.00	-23.41
4521.58	39.35	Ave	328	1.8	H	-1.94	37.41	54.00	-16.59
5136.47	53.33	PK	227	1.9	H	-1.06	52.27	74.00	-21.73
5136.47	38.97	Ave	227	1.9	H	-1.06	37.91	54.00	-16.09
10560.00	40.22	PK	270	1.3	H	5.21	45.43	74.00	-28.57
10560.00	32.95	Ave	270	1.3	H	5.21	38.16	54.00	-15.84
802.11a U-NII-2A High channel 5320MHz									
164.47	44.68	QP	233	1.2	H	-11.62	33.06	43.50	-10.44
164.47	41.80	QP	161	1.4	V	-11.62	30.18	43.50	-13.32
4501.80	51.97	PK	325	1.2	H	-2.24	49.73	74.00	-24.27
4501.80	38.03	Ave	325	1.2	H	-2.24	35.79	54.00	-18.21
5114.68	52.59	PK	62	1.2	H	-1.09	51.50	74.00	-22.50
5114.68	37.98	Ave	62	1.2	H	-1.09	36.89	54.00	-17.11
10640.00	40.52	PK	350	1.7	H	5.14	45.66	74.00	-28.34
10640.00	32.77	Ave	350	1.7	H	5.14	37.91	54.00	-16.09

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2C Low Channel 5500MHz									
164.47	41.90	QP	324	1.1	H	-11.62	30.28	43.50	-13.22
164.47	46.10	QP	206	1.8	V	-11.62	34.48	43.50	-9.02
4522.63	53.20	PK	259	1.4	H	-2.03	51.17	74.00	-22.83
4522.63	39.94	Ave	259	1.4	H	-2.03	37.91	54.00	-16.09
5147.06	54.22	PK	356	1.7	H	-1.02	53.20	74.00	-20.80
5147.06	38.21	Ave	356	1.7	H	-1.02	37.19	54.00	-16.81
11000.00	41.23	PK	188	1.0	H	5.33	46.56	74.00	-27.44
11000.00	37.65	Ave	188	1.0	H	5.33	42.98	54.00	-11.02
802.11a U-NII-2C Middle channel 5600MHz									
164.47	41.52	QP	274	1.4	H	-11.62	29.90	43.50	-13.60
164.47	44.72	QP	30	1.9	V	-11.62	33.10	43.50	-10.40
4528.16	52.24	PK	329	1.3	H	-1.94	50.30	74.00	-23.70
4528.16	38.58	Ave	329	1.3	H	-1.94	36.64	54.00	-17.36
5144.75	54.42	PK	4	1.5	H	-1.06	53.36	74.00	-20.64
5144.75	38.28	Ave	4	1.5	H	-1.06	37.22	54.00	-16.78
11200.00	40.96	PK	258	1.6	H	5.21	46.17	74.00	-27.83
11200.00	36.68	Ave	258	1.6	H	5.21	41.89	54.00	-12.11

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2C High channel 5700MHz									
164.47	41.18	QP	277	1.7	H	-11.62	29.56	43.50	-13.94
164.47	43.55	QP	357	2.0	V	-11.62	31.93	43.50	-11.57
4535.96	51.15	PK	26	1.7	H	-2.24	48.91	74.00	-25.09
4535.96	37.24	Ave	26	1.7	H	-2.24	35.00	54.00	-19.00
5143.48	54.17	PK	247	1.2	H	-1.09	53.08	74.00	-20.92
5143.48	38.06	Ave	247	1.2	H	-1.09	36.97	54.00	-17.03
11400.00	40.85	PK	308	1.3	H	5.14	45.99	74.00	-28.01
11400.00	36.39	Ave	308	1.3	H	5.14	41.53	54.00	-12.47
802.11a U-NII-3 Low Channel 5745MHz									
164.47	45.00	QP	159	1.1	H	-11.62	33.38	43.50	-10.12
164.47	41.51	QP	227	1.1	V	-11.62	29.89	43.50	-13.61
4506.76	55.08	PK	330	1.9	H	-2.06	53.02	74.00	-20.98
4506.76	41.32	Ave	330	1.9	H	-2.06	39.26	54.00	-14.74
5376.56	41.45	PK	297	1.4	H	5.93	47.38	74.00	-26.62
5376.56	28.79	Ave	297	1.4	H	5.93	34.72	54.00	-19.28
11490.00	46.12	PK	225	1.2	H	-1.25	44.87	74.00	-29.13
11490.00	39.27	Ave	225	1.2	H	-1.25	38.02	54.00	-15.98

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-3 middle channel 5785MHz									
164.47	44.01	QP	48	1.8	H	-11.62	32.39	43.50	-11.11
164.47	40.61	QP	299	1.5	V	-11.62	28.99	43.50	-14.51
4536.81	53.71	PK	228	1.5	H	-2.03	51.68	74.00	-22.32
4536.81	41.19	Ave	228	1.5	H	-2.03	39.16	54.00	-14.84
5362.77	41.56	PK	75	1.3	H	5.81	47.37	74.00	-26.63
5362.77	27.94	Ave	75	1.3	H	5.81	33.75	54.00	-20.25
11570.00	45.72	PK	218	1.8	H	-1.22	44.50	74.00	-29.50
11570.00	37.68	Ave	218	1.8	H	-1.22	36.46	54.00	-17.54
802.11a U-NII-3 High channel 5825MHz									
164.47	42.86	QP	70	1.6	H	-11.62	31.24	43.50	-12.26
164.47	40.02	QP	259	1.7	V	-11.62	28.40	43.50	-15.10
4526.85	52.72	PK	261	1.6	H	-1.84	50.88	74.00	-23.12
4526.85	39.95	Ave	261	1.6	H	-1.84	38.11	54.00	-15.89
5366.76	41.68	PK	239	1.3	H	5.84	47.52	74.00	-26.48
5366.76	28.31	Ave	239	1.3	H	5.84	34.15	54.00	-19.85
11650.00	45.05	PK	304	1.5	H	-1.30	43.75	74.00	-30.25
11650.00	37.94	Ave	304	1.5	H	-1.30	36.64	54.00	-17.36

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 Low Channel 5180MHz									
164.47	42.16	QP	345	1.9	H	-11.62	30.54	43.50	-12.96
164.47	39.95	QP	308	1.1	V	-11.62	28.33	43.50	-15.17
4512.27	51.83	PK	259	1.1	H	-2.14	49.69	74.00	-24.31
4512.27	38.63	Ave	259	1.1	H	-2.14	36.49	54.00	-17.51
5125.84	45.77	PK	347	1.6	H	-1.06	44.71	74.00	-29.29
5125.84	37.51	Ave	347	1.6	H	-1.06	36.45	54.00	-17.55
10360.00	41.57	PK	340	1.6	H	5.33	46.90	74.00	-27.10
10360.00	28.81	Ave	340	1.6	H	5.33	34.14	54.00	-19.86
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
164.47	41.17	QP	271	1.7	H	-11.62	29.55	43.50	-13.95
164.47	38.54	QP	180	1.6	V	-11.62	26.92	43.50	-16.58
4532.08	50.94	PK	81	1.8	H	-2.12	48.82	74.00	-25.18
4532.08	38.53	Ave	81	1.8	H	-2.12	36.41	54.00	-17.59
5110.74	46.21	PK	26	1.3	H	-1.06	45.15	74.00	-28.85
5110.74	36.89	Ave	26	1.3	H	-1.06	35.83	54.00	-18.17
10400.00	42.08	PK	116	1.6	H	5.21	47.29	74.00	-26.71
10400.00	28.71	Ave	116	1.6	H	5.21	33.92	54.00	-20.08

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 High channel 5240MHz									
164.47	42.46	QP	302	1.9	H	-11.62	30.84	43.50	-12.66
164.47	38.96	QP	290	1.9	V	-11.62	27.34	43.50	-16.16
4514.16	50.02	PK	73	1.6	H	-1.96	48.06	74.00	-25.94
4514.16	37.73	Ave	73	1.6	H	-1.96	35.77	54.00	-18.23
5133.41	46.57	PK	15	1.7	H	-1.06	45.51	74.00	-28.49
5133.41	38.29	Ave	15	1.7	H	-1.06	37.23	54.00	-16.77
10480.00	43.03	PK	68	1.8	H	5.14	48.17	74.00	-25.83
10480.00	28.54	Ave	68	1.8	H	5.14	33.68	54.00	-20.32
802.11n(HT20) U-NII-2A Low Channel 5260MHz									
164.47	45.79	QP	241	1.9	H	-11.62	34.17	43.50	-9.33
164.47	44.04	QP	101	1.7	V	-11.62	32.42	43.50	-11.08
4508.44	51.59	PK	277	1.8	H	-2.03	49.56	74.00	-24.44
4508.44	40.99	Ave	277	1.8	H	-2.03	38.96	54.00	-15.04
5128.33	55.12	PK	262	1.5	H	-1.02	54.10	74.00	-19.90
5128.33	36.76	Ave	262	1.5	H	-1.02	35.74	54.00	-18.26
10520.00	47.03	PK	182	1.4	H	5.33	52.36	74.00	-21.64
10520.00	32.73	Ave	182	1.4	H	5.33	38.06	54.00	-15.94

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2A middle channel 5280MHz									
164.47	47.28	QP	204	1.9	H	-11.62	35.66	43.50	-7.84
164.47	43.26	QP	83	1.4	V	-11.62	31.64	43.50	-11.86
4536.13	51.31	PK	255	2.0	H	-1.94	49.37	74.00	-24.63
4536.13	42.03	Ave	255	2.0	H	-1.94	40.09	54.00	-13.91
5140.15	56.12	PK	262	1.5	H	-1.06	55.06	74.00	-18.94
5140.15	38.59	Ave	262	1.5	H	-1.06	37.53	54.00	-16.47
10560.00	46.58	PK	84	1.6	H	5.21	51.79	74.00	-22.21
10560.00	34.09	Ave	84	1.6	H	5.21	39.30	54.00	-14.70
802.11n(HT20) U-NII-2A High channel 5320MHz									
164.47	47.02	QP	317	1.9	H	-11.62	35.40	43.50	-8.10
164.47	43.21	QP	150	1.6	V	-11.62	31.59	43.50	-11.91
4518.59	52.74	PK	105	2.0	H	-2.24	50.50	74.00	-23.50
4518.59	40.86	Ave	105	2.0	H	-2.24	38.62	54.00	-15.38
5112.54	56.44	PK	174	1.0	H	-1.09	55.35	74.00	-18.65
5112.54	39.87	Ave	174	1.0	H	-1.09	38.78	54.00	-15.22
10640.00	47.31	PK	305	1.6	H	5.14	52.45	74.00	-21.55
10640.00	34.07	Ave	305	1.6	H	5.14	39.21	54.00	-14.79

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2C Low Channel 5500MHz									
164.47	44.96	QP	324	2.0	H	-11.62	33.34	43.50	-10.16
164.47	42.73	QP	278	1.5	V	-11.62	31.11	43.50	-12.39
4513.44	57.32	PK	316	1.3	H	-2.03	55.29	74.00	-18.71
4513.44	32.85	Ave	316	1.3	H	-2.03	30.82	54.00	-23.18
5149.92	46.64	PK	17	1.5	H	-1.02	45.62	74.00	-28.38
5149.92	40.11	Ave	17	1.5	H	-1.02	39.09	54.00	-14.91
11000.00	49.10	PK	288	1.9	H	5.33	54.43	74.00	-19.57
11000.00	37.71	Ave	288	1.9	H	5.33	43.04	54.00	-10.96
802.11n(HT20) U-NII-2C Middle channel 5600MHz									
164.47	46.17	QP	47	2.0	H	-11.62	34.55	43.50	-8.95
164.47	42.19	QP	82	1.3	V	-11.62	30.57	43.50	-12.93
4504.28	57.45	PK	82	1.3	H	-1.94	55.51	74.00	-18.49
4504.28	33.10	Ave	82	1.3	H	-1.94	31.16	54.00	-22.84
5123.52	46.95	PK	354	1.5	H	-1.06	45.89	74.00	-28.11
5123.52	40.42	Ave	354	1.5	H	-1.06	39.36	54.00	-14.64
11200.00	50.07	PK	109	1.4	H	5.21	55.28	74.00	-18.72
11200.00	39.19	Ave	109	1.4	H	5.21	44.40	54.00	-9.60

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2C High channel 5700MHz									
164.47	45.35	QP	38	1.1	H	-11.62	33.73	43.50	-9.77
164.47	40.78	QP	226	1.9	V	-11.62	29.16	43.50	-14.34
4531.69	57.38	PK	262	1.8	H	-2.24	55.14	74.00	-18.86
4531.69	32.07	Ave	262	1.8	H	-2.24	29.83	54.00	-24.17
5112.26	46.79	PK	93	1.9	H	-1.09	45.70	74.00	-28.30
5112.26	39.46	Ave	93	1.9	H	-1.09	38.37	54.00	-15.63
11400.00	49.46	PK	120	1.1	H	5.14	54.60	74.00	-19.40
11400.00	37.70	Ave	120	1.1	H	5.14	42.84	54.00	-11.16
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
164.47	40.64	QP	341	1.9	H	-11.62	29.02	43.50	-14.48
164.47	35.42	QP	55	1.7	V	-11.62	23.80	43.50	-19.70
4502.58	57.91	PK	138	1.4	H	-2.06	55.85	74.00	-18.15
4502.58	45.71	Ave	138	1.4	H	-2.06	43.65	54.00	-10.35
5370.49	44.25	PK	81	1.9	H	5.93	50.18	74.00	-23.82
5370.49	35.87	Ave	81	1.9	H	5.93	41.80	54.00	-12.20
11490.00	45.20	PK	8	1.3	H	-1.25	43.95	74.00	-30.05
11490.00	38.56	Ave	8	1.3	H	-1.25	37.31	54.00	-16.69

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-3 middle channel 5785MHz									
164.47	42.01	QP	21	1.8	H	-11.62	30.39	43.50	-13.11
164.47	39.86	QP	4	1.5	V	-11.62	28.24	43.50	-15.26
4521.37	57.70	PK	126	1.3	H	-2.03	55.67	74.00	-18.33
4521.37	44.30	Ave	126	1.3	H	-2.03	42.27	54.00	-11.73
5382.43	51.06	PK	64	1.4	H	5.81	56.87	74.00	-17.13
5382.43	38.06	Ave	64	1.4	H	5.81	43.87	54.00	-10.13
11570.00	45.21	PK	150	2.0	H	-1.22	43.99	74.00	-30.01
11570.00	38.63	Ave	150	2.0	H	-1.22	37.41	54.00	-16.59
802.11n(HT20) U-NII-3 High channel 5825MHz									
164.47	43.02	QP	38	1.1	H	-11.62	31.40	43.50	-12.10
164.47	38.69	QP	299	1.0	V	-11.62	27.07	43.50	-16.43
4508.06	57.74	PK	43	1.9	H	-1.84	55.90	74.00	-18.10
4508.06	44.59	Ave	43	1.9	H	-1.84	42.75	54.00	-11.25
5385.68	48.73	PK	141	1.0	H	5.84	54.57	74.00	-19.43
5385.68	38.45	Ave	141	1.0	H	5.84	44.29	54.00	-9.71
11650.00	45.35	PK	216	1.7	H	-1.30	44.05	74.00	-29.95
11650.00	39.99	Ave	216	1.7	H	-1.30	38.69	54.00	-15.31

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-1 Low Channel 5180MHz									
164.47	42.18	QP	2	1.4	H	-11.62	30.56	43.50	-12.94
164.47	37.55	QP	214	1.9	V	-11.62	25.93	43.50	-17.57
4506.91	45.77	PK	125	1.2	H	-1.86	43.91	74.00	-30.09
4506.91	40.27	Ave	125	1.2	H	-1.86	38.41	54.00	-15.59
5122.38	42.19	PK	229	1.7	H	-1.06	41.13	74.00	-32.87
5122.38	40.45	Ave	229	1.7	H	-1.06	39.39	54.00	-14.61
10360.00	46.77	PK	119	1.2	H	5.33	52.10	74.00	-21.90
10360.00	38.94	Ave	119	1.2	H	5.33	44.27	54.00	-9.73
802.11ac(VHT20) U-NII-1 Middle channel 5200MHz									
164.47	41.77	QP	342	1.7	H	-11.62	30.15	43.50	-13.35
164.47	36.74	QP	97	1.1	V	-11.62	25.12	43.50	-18.38
4533.20	45.94	PK	284	1.8	H	-1.82	44.12	74.00	-29.88
4533.20	40.67	Ave	284	1.8	H	-1.82	38.85	54.00	-15.15
5127.43	42.47	PK	9	2.0	H	-1.06	41.41	74.00	-32.59
5127.43	41.31	Ave	9	2.0	H	-1.06	40.25	54.00	-13.75
10400.00	41.11	PK	29	1.1	H	5.21	46.32	74.00	-27.68
10400.00	29.11	Ave	29	1.1	H	5.21	34.32	54.00	-19.68

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-1 High channel 5240MHz									
164.47	41.85	QP	109	1.4	H	-11.62	30.23	43.50	-13.27
164.47	36.39	QP	354	1.6	V	-11.62	24.77	43.50	-18.73
4533.00	46.00	PK	264	1.0	H	-1.81	44.19	74.00	-29.81
4533.00	40.97	Ave	264	1.0	H	-1.81	39.16	54.00	-14.84
5138.62	43.42	PK	250	1.5	H	-1.06	42.36	74.00	-31.64
5138.62	40.32	Ave	250	1.5	H	-1.06	39.26	54.00	-14.74
10480.00	41.06	PK	284	1.1	H	5.14	46.20	74.00	-27.80
10480.00	28.72	Ave	284	1.1	H	5.14	33.86	54.00	-20.14
802.11ac(VHT20) U-NII-2A Low Channel 5260MHz									
164.47	44.38	QP	83	1.3	H	-11.62	32.76	43.50	-10.74
164.47	39.90	QP	189	1.4	V	-11.62	28.28	43.50	-15.22
4500.91	42.24	PK	181	1.3	H	-2.03	40.21	74.00	-33.79
4500.91	29.64	Ave	181	1.3	H	-2.03	27.61	54.00	-26.39
5132.01	46.17	PK	188	1.2	H	-1.02	45.15	74.00	-28.85
5132.01	37.68	Ave	188	1.2	H	-1.02	36.66	54.00	-17.34
10520.00	42.04	PK	83	1.6	H	5.33	47.37	74.00	-26.63
10520.00	39.02	Ave	83	1.6	H	5.33	44.35	54.00	-9.65

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-2A middle channel 5280MHz									
164.47	43.21	QP	176	1.6	H	-11.62	31.59	43.50	-11.91
164.47	38.93	QP	276	1.1	V	-11.62	27.31	43.50	-16.19
4507.41	41.16	PK	74	1.3	H	-1.94	39.22	74.00	-34.78
4507.41	29.05	Ave	74	1.3	H	-1.94	27.11	54.00	-26.89
5140.72	46.13	PK	72	1.4	H	-1.06	45.07	74.00	-28.93
5140.72	39.58	Ave	72	1.4	H	-1.06	38.52	54.00	-15.48
10560.00	40.82	PK	272	1.4	H	5.21	46.03	74.00	-27.97
10560.00	39.83	Ave	272	1.4	H	5.21	45.04	54.00	-8.96
802.11ac(VHT20) U-NII-2A High channel 5320MHz									
164.47	43.18	QP	174	1.7	H	-11.62	31.56	43.50	-11.94
164.47	37.44	QP	168	1.4	V	-11.62	25.82	43.50	-17.68
4528.42	42.51	PK	290	1.1	H	-2.24	40.27	74.00	-33.73
4528.42	29.91	Ave	290	1.1	H	-2.24	27.67	54.00	-26.33
5131.54	47.62	PK	97	1.6	H	-1.09	46.53	74.00	-27.47
5131.54	38.70	Ave	97	1.6	H	-1.09	37.61	54.00	-16.39
10640.00	42.18	PK	7	1.6	H	5.14	47.32	74.00	-26.68
10640.00	37.65	Ave	7	1.6	H	5.14	42.79	54.00	-11.21

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-2C Low Channel 5500MHz									
164.47	43.10	QP	119	1.4	H	-11.62	31.48	43.50	-12.02
164.47	36.39	QP	43	1.2	V	-11.62	24.77	43.50	-18.73
4531.24	42.63	PK	101	2.0	H	-2.03	40.60	74.00	-33.40
4531.24	38.85	Ave	101	2.0	H	-2.03	36.82	54.00	-17.18
5125.78	46.89	PK	141	1.7	H	-1.02	45.87	74.00	-28.13
5125.78	40.22	Ave	141	1.7	H	-1.02	39.20	54.00	-14.80
11000.00	41.91	PK	304	1.5	H	5.33	47.24	74.00	-26.76
11000.00	41.76	Ave	304	1.5	H	5.33	47.09	54.00	-6.91
802.11ac(VHT20) U-NII-2C Middle channel 5600MHz									
164.47	41.86	QP	109	1.5	H	-11.62	30.24	43.50	-13.26
164.47	36.75	QP	33	1.5	V	-11.62	25.13	43.50	-18.37
4504.07	42.18	PK	158	1.5	H	-1.94	40.24	74.00	-33.76
4504.07	39.11	Ave	158	1.5	H	-1.94	37.17	54.00	-16.83
5133.03	46.54	PK	167	1.3	H	-1.06	45.48	74.00	-28.52
5133.03	40.09	Ave	167	1.3	H	-1.06	39.03	54.00	-14.97
11200.00	41.20	PK	77	1.8	H	5.21	46.41	74.00	-27.59
11200.00	41.57	Ave	77	1.8	H	5.21	46.78	54.00	-7.22

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-2C High channel 5700MHz									
164.47	41.55	QP	258	1.8	H	-11.62	29.93	43.50	-13.57
164.47	37.18	QP	13	1.0	V	-11.62	25.56	43.50	-17.94
4523.51	41.21	PK	227	1.9	H	-2.24	38.97	74.00	-35.03
4523.51	38.29	Ave	227	1.9	H	-2.24	36.05	54.00	-17.95
5132.75	48.35	PK	120	1.3	H	-1.09	47.26	74.00	-26.74
5132.75	41.53	Ave	120	1.3	H	-1.09	40.44	54.00	-13.56
11400.00	41.74	PK	53	1.4	H	5.14	46.88	74.00	-27.12
11400.00	42.00	Ave	53	1.4	H	5.14	47.14	54.00	-6.86
802.11ac(VHT20) U-NII-3 Low Channel 5745MHz									
164.47	41.64	QP	208	1.7	H	-11.62	30.02	43.50	-13.48
164.47	36.00	QP	280	1.8	V	-11.62	24.38	43.50	-19.12
4531.31	43.82	PK	177	1.6	H	-1.92	41.90	74.00	-32.10
4531.31	38.67	Ave	177	1.6	H	-1.92	36.75	54.00	-17.25
5380.41	38.86	PK	110	1.8	H	5.93	44.79	74.00	-29.21
5380.41	27.75	Ave	110	1.8	H	5.93	33.68	54.00	-20.32
11490.00	45.87	PK	264	1.7	H	-1.03	44.84	74.00	-29.16
11490.00	39.44	Ave	264	1.7	H	-1.03	38.41	54.00	-15.59

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT20) U-NII-3 middle channel 5785MHz									
164.47	42.58	QP	70	1.3	H	-11.62	30.96	43.50	-12.54
164.47	35.12	QP	236	1.3	V	-11.62	23.50	43.50	-20.00
4505.54	44.62	PK	269	1.6	H	-1.97	42.65	74.00	-31.35
4505.54	39.16	Ave	269	1.6	H	-1.97	37.19	54.00	-16.81
5373.83	42.08	PK	101	1.4	H	5.81	47.89	74.00	-26.11
5373.83	29.08	Ave	101	1.4	H	5.81	34.89	54.00	-19.11
11570.00	45.21	PK	321	1.1	H	-1.05	44.16	74.00	-29.84
11570.00	38.15	Ave	321	1.1	H	-1.05	37.10	54.00	-16.90
802.11ac(VHT20) U-NII-3 High channel 5825MHz									
164.47	42.35	QP	276	1.5	H	-11.62	30.73	43.50	-12.77
164.47	34.18	QP	147	1.9	V	-11.62	22.56	43.50	-20.94
4522.04	44.79	PK	101	1.0	H	-1.88	42.91	74.00	-31.09
4522.04	39.89	Ave	101	1.0	H	-1.88	38.01	54.00	-15.99
5379.98	41.58	PK	238	1.1	H	5.84	47.42	74.00	-26.58
5379.98	29.08	Ave	238	1.1	H	5.84	34.92	54.00	-19.08
11650.00	46.62	PK	329	2.0	H	-1.06	45.56	74.00	-28.44
11650.00	38.45	Ave	329	2.0	H	-1.06	37.39	54.00	-16.61

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-1 Low Channel 5190MHz									
164.47	41.46	QP	121	1.9	H	-11.62	29.84	43.50	-13.66
164.47	35.16	QP	214	1.1	V	-11.62	23.54	43.50	-19.96
4537.73	54.95	PK	217	1.1	H	-1.89	53.06	74.00	-20.94
4537.73	43.30	Ave	217	1.1	H	-1.89	41.41	54.00	-12.59
5132.05	47.22	PK	174	1.5	H	-1.06	46.16	74.00	-27.84
5132.05	37.86	Ave	174	1.5	H	-1.06	36.80	54.00	-17.20
10380.00	38.91	PK	115	1.5	H	5.26	44.17	74.00	-29.83
10380.00	26.29	Ave	115	1.5	H	5.26	31.55	54.00	-22.45
802.11n(HT40) U-NII-1 High channel 5230MHz									
164.47	42.07	QP	333	1.1	H	-11.62	30.45	43.50	-13.05
164.47	35.05	QP	319	1.6	V	-11.62	23.43	43.50	-20.07
4530.33	55.61	PK	107	1.7	H	-1.94	53.67	74.00	-20.33
4530.33	43.12	Ave	107	1.7	H	-1.94	41.18	54.00	-12.82
5133.15	47.31	PK	221	1.4	H	-1.06	46.25	74.00	-27.75
5133.15	38.39	Ave	221	1.4	H	-1.06	37.33	54.00	-16.67
10460.00	42.65	PK	318	1.3	H	5.28	47.93	74.00	-26.07
10460.00	29.48	Ave	318	1.3	H	5.28	34.76	54.00	-19.24

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-2A Low Channel 5270MHz									
164.47	41.14	QP	300	1.6	H	-11.62	29.52	43.50	-13.98
164.47	35.50	QP	215	1.1	V	-11.62	23.88	43.50	-19.62
4514.50	53.61	PK	53	1.0	H	-1.89	51.72	74.00	-22.28
4514.50	40.27	Ave	53	1.0	H	-1.89	38.38	54.00	-15.62
5120.48	45.30	PK	331	2.0	H	-1.06	44.24	74.00	-29.76
5120.48	41.30	Ave	331	2.0	H	-1.06	40.24	54.00	-13.76
10540.00	45.41	PK	348	1.2	H	5.26	50.67	74.00	-23.33
10540.00	38.33	Ave	348	1.2	H	5.26	43.59	54.00	-10.41
802.11n(HT40) U-NII-2A High channel 5310MHz									
164.47	40.75	QP	236	1.9	H	-11.62	29.13	43.50	-14.37
164.47	36.15	QP	334	1.7	V	-11.62	24.53	43.50	-18.97
4517.48	53.26	PK	81	2.0	H	-1.94	51.32	74.00	-22.68
4517.48	40.95	Ave	81	2.0	H	-1.94	39.01	54.00	-14.99
5129.27	45.61	PK	282	1.9	H	-1.06	44.55	74.00	-29.45
5129.27	41.00	Ave	282	1.9	H	-1.06	39.94	54.00	-14.06
10620.00	41.93	PK	45	1.1	H	5.28	47.21	74.00	-26.79
10620.00	29.73	Ave	45	1.1	H	5.28	35.01	54.00	-18.99

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-2C Low Channel 5510MHz									
164.47	40.33	QP	201	1.8	H	-11.62	28.71	43.50	-14.79
164.47	37.01	QP	268	1.3	V	-11.62	25.39	43.50	-18.11
4534.44	51.39	PK	257	1.5	H	-1.89	49.50	74.00	-24.50
4534.44	39.69	Ave	257	1.5	H	-1.89	37.80	54.00	-16.20
5138.13	54.29	PK	138	1.1	H	-1.06	53.23	74.00	-20.77
5138.13	37.66	Ave	138	1.1	H	-1.06	36.60	54.00	-17.40
11020.00	41.92	PK	84	1.4	H	5.26	47.18	74.00	-26.82
11020.00	36.76	Ave	84	1.4	H	5.26	42.02	54.00	-11.98
802.11n(HT40) U-NII-2C Middle channel 5550MHz									
164.47	40.99	QP	195	1.1	H	-11.62	29.37	43.50	-14.13
164.47	37.23	QP	83	1.9	V	-11.62	25.61	43.50	-17.89
4523.45	50.71	PK	38	1.1	H	-1.94	48.77	74.00	-25.23
4523.45	39.07	Ave	38	1.1	H	-1.94	37.13	54.00	-16.87
5110.51	54.57	PK	216	1.9	H	-1.06	53.51	74.00	-20.49
5110.51	39.06	Ave	216	1.9	H	-1.06	38.00	54.00	-16.00
11100.00	46.01	PK	320	1.5	H	5.28	51.29	74.00	-22.71
11100.00	36.82	Ave	320	1.5	H	5.28	42.10	54.00	-11.90
802.11n(HT40) U-NII-2C High channel 5670MHz									
164.47	41.92	QP	130	1.2	H	-11.62	30.30	43.50	-13.20
164.47	37.60	QP	284	1.8	V	-11.62	25.98	43.50	-17.52
4509.65	50.73	PK	163	1.2	H	-1.94	48.79	74.00	-25.21
4509.65	39.34	Ave	163	1.2	H	-1.94	37.40	54.00	-16.60
5132.47	54.27	PK	112	1.3	H	-1.06	53.21	74.00	-20.79
5132.47	38.81	Ave	112	1.3	H	-1.06	37.75	54.00	-16.25
11340.00	41.90	PK	249	1.2	H	5.28	47.18	74.00	-26.82
11340.00	33.35	Ave	249	1.2	H	5.28	38.63	54.00	-15.37

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-3 Low Channel 5755MHz									
164.47	41.87	QP	296	1.8	H	-11.62	30.25	43.50	-13.25
164.47	36.15	QP	286	1.8	V	-11.62	24.53	43.50	-18.97
4524.02	53.06	PK	305	1.6	H	-1.96	51.10	74.00	-22.90
4524.02	40.15	Ave	305	1.6	H	-1.96	38.19	54.00	-15.81
5380.06	39.96	PK	173	1.2	H	5.88	45.84	74.00	-28.16
5380.06	26.31	Ave	173	1.2	H	5.88	32.19	54.00	-21.81
11510.00	45.29	PK	101	1.6	H	-1.01	44.28	74.00	-29.72
11510.00	37.24	Ave	101	1.6	H	-1.01	36.23	54.00	-17.77
802.11n(HT40) U-NII-3 High Channel 5795MHz									
164.47	42.83	QP	231	1.1	H	-11.62	31.21	43.50	-12.29
164.47	36.43	QP	108	1.4	V	-11.62	24.81	43.50	-18.69
4521.14	52.15	PK	61	1.1	H	-1.92	50.23	74.00	-23.77
4521.14	40.01	Ave	61	1.1	H	-1.92	38.09	54.00	-15.91
5385.45	42.34	PK	97	1.3	H	5.63	47.97	74.00	-26.03
5385.45	28.18	Ave	97	1.3	H	5.63	33.81	54.00	-20.19
11590.00	46.56	PK	76	1.3	H	-1.04	45.52	74.00	-28.48
11590.00	38.06	Ave	76	1.3	H	-1.04	37.02	54.00	-16.98

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-1 Low Channel 5190MHz									
164.47	41.89	QP	140	1.3	H	-11.62	30.27	43.50	-13.23
164.47	36.67	QP	28	1.8	V	-11.62	25.05	43.50	-18.45
4527.40	49.55	PK	317	1.9	H	-1.91	47.64	74.00	-26.36
4527.40	37.62	Ave	317	1.9	H	-1.91	35.71	54.00	-18.29
5139.19	46.39	PK	164	2.0	H	-1.06	45.33	74.00	-28.67
5139.19	39.57	Ave	164	2.0	H	-1.06	38.51	54.00	-15.49
10380.00	40.58	PK	206	1.7	H	5.26	45.84	74.00	-28.16
10380.00	26.67	Ave	206	1.7	H	5.26	31.93	54.00	-22.07
802.11ac(VHT40) U-NII-1 High channel 5230MHz									
164.47	42.36	QP	352	1.4	H	-11.62	30.74	43.50	-12.76
164.47	37.10	QP	225	1.6	V	-11.62	25.48	43.50	-18.02
4530.25	48.72	PK	80	1.8	H	-1.93	46.79	74.00	-27.21
4530.25	37.07	Ave	80	1.8	H	-1.93	35.14	54.00	-18.86
5127.80	46.46	PK	168	1.2	H	-1.06	45.40	74.00	-28.60
5127.80	40.39	Ave	168	1.2	H	-1.06	39.33	54.00	-14.67
10460.00	40.94	PK	134	1.0	H	5.28	46.22	74.00	-27.78
10460.00	29.00	Ave	134	1.0	H	5.28	34.28	54.00	-19.72

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-2A Low Channel 5270MHz									
164.47	42.62	QP	127	1.0	H	-11.62	31.00	43.50	-12.50
164.47	40.51	QP	46	1.3	V	-11.62	28.89	43.50	-14.61
4500.41	40.08	PK	73	1.2	H	-1.89	38.19	74.00	-35.81
4500.41	29.98	Ave	73	1.2	H	-1.89	28.09	54.00	-25.91
5137.47	45.42	PK	233	1.0	H	-1.06	44.36	74.00	-29.64
5137.47	40.45	Ave	233	1.0	H	-1.06	39.39	54.00	-14.61
10540.00	39.87	PK	121	1.4	H	5.26	45.13	74.00	-28.87
10540.00	30.42	Ave	121	1.4	H	5.26	35.68	54.00	-18.32
802.11ac(VHT40) U-NII-2A High channel 5310MHz									
164.47	41.79	QP	232	1.1	H	-11.62	30.17	43.50	-13.33
164.47	39.54	QP	42	1.3	V	-11.62	27.92	43.50	-15.58
4538.20	40.59	PK	161	1.8	H	-1.94	38.65	74.00	-35.35
4538.20	30.08	Ave	161	1.8	H	-1.94	28.14	54.00	-25.86
5119.64	46.99	PK	201	1.5	H	-1.06	45.93	74.00	-28.07
5119.64	41.77	Ave	201	1.5	H	-1.06	40.71	54.00	-13.29
10620.00	40.76	PK	115	1.7	H	5.28	46.04	74.00	-27.96
10620.00	44.49	Ave	115	1.7	H	5.28	49.77	54.00	-4.23

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-2C Low Channel 5510MHz									
164.47	42.34	QP	329	1.7	H	-11.62	30.72	43.50	-12.78
164.47	41.65	QP	67	1.9	V	-11.62	30.03	43.50	-13.47
4536.34	39.94	PK	217	1.0	H	-1.89	38.05	74.00	-35.95
4536.34	45.04	Ave	217	1.0	H	-1.89	43.15	54.00	-10.85
5143.94	47.92	PK	314	1.6	H	-1.06	46.86	74.00	-27.14
5143.94	37.71	Ave	314	1.6	H	-1.06	36.65	54.00	-17.35
11020.00	38.87	PK	112	1.9	H	5.26	44.13	74.00	-29.87
11020.00	44.27	Ave	112	1.9	H	5.26	49.53	54.00	-4.47
802.11ac(VHT40) U-NII-2C Middle channel 5550MHz									
164.47	41.58	QP	186	1.2	H	-11.62	29.96	43.50	-13.54
164.47	40.89	QP	348	1.1	V	-11.62	29.27	43.50	-14.23
4502.91	39.94	PK	309	1.0	H	-1.94	38.00	74.00	-36.00
4502.91	45.36	Ave	309	1.0	H	-1.94	43.42	54.00	-10.58
5134.75	48.29	PK	38	1.2	H	-1.06	47.23	74.00	-26.77
5134.75	36.79	Ave	38	1.2	H	-1.06	35.73	54.00	-18.27
11100.00	39.95	PK	139	1.2	H	5.28	45.23	74.00	-28.77
11100.00	43.33	Ave	139	1.2	H	5.28	48.61	54.00	-5.39
802.11ac(VHT40) U-NII-2C High channel 5670MHz									
164.47	40.63	QP	83	1.0	H	-11.62	29.01	43.50	-14.49
164.47	41.60	QP	85	1.6	V	-11.62	29.98	43.50	-13.52
4539.35	40.10	PK	204	1.2	H	-1.94	38.16	74.00	-35.84
4539.35	45.26	Ave	204	1.2	H	-1.94	43.32	54.00	-10.68
5134.88	48.44	PK	14	1.7	H	-1.06	47.38	74.00	-26.62
5134.88	36.69	Ave	14	1.7	H	-1.06	35.63	54.00	-18.37
11340.00	40.15	PK	202	1.2	H	5.28	45.43	74.00	-28.57
11340.00	41.35	Ave	202	1.2	H	5.28	46.63	54.00	-7.37

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT40) U-NII-3 Low Channel 5755MHz									
164.47	43.05	QP	110	1.1	H	-11.62	31.43	43.50	-12.07
164.47	37.85	QP	1	1.8	V	-11.62	26.23	43.50	-17.27
4510.97	47.70	PK	69	1.3	H	-1.92	45.78	74.00	-28.22
4510.97	35.44	Ave	69	1.3	H	-1.92	33.52	54.00	-20.48
5353.88	40.11	PK	121	1.7	H	5.88	45.99	74.00	-28.01
5353.88	26.24	Ave	121	1.7	H	5.88	32.12	54.00	-21.88
11510.00	45.35	PK	305	1.6	H	-1.07	44.28	74.00	-29.72
11510.00	37.58	Ave	305	1.6	H	-1.07	36.51	54.00	-17.49
802.11ac(VHT40) U-NII-3 High Channel 5795MHz									
164.47	42.30	QP	217	1.5	H	-11.62	30.68	43.50	-12.82
164.47	38.59	QP	112	1.6	V	-11.62	26.97	43.50	-16.53
4536.21	47.30	PK	133	1.5	H	-1.86	45.44	74.00	-28.56
4536.21	34.85	Ave	133	1.5	H	-1.86	32.99	54.00	-21.01
5385.33	40.88	PK	263	1.6	H	5.63	46.51	74.00	-27.49
5385.33	29.10	Ave	263	1.6	H	5.63	34.73	54.00	-19.27
11590.00	45.79	PK	267	1.1	H	-1.03	44.76	74.00	-29.24
11590.00	37.36	Ave	267	1.1	H	-1.03	36.33	54.00	-17.67

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT80) U-NII-1 Low Channel 5210MHz									
164.47	41.58	QP	183	1.8	H	-11.62	29.96	43.50	-13.54
164.47	39.13	QP	179	1.9	V	-11.62	27.51	43.50	-15.99
4516.29	34.77	PK	237	2.0	H	-1.88	32.89	74.00	-41.11
4516.29	40.15	Ave	237	2.0	H	-1.88	38.27	54.00	-15.73
5118.21	29.62	PK	132	1.2	H	-1.06	28.56	74.00	-45.44
5118.21	45.00	Ave	132	1.2	H	-1.06	43.94	54.00	-10.06
10420.00	42.22	PK	50	1.0	H	4.65	46.87	74.00	-27.13
10420.00	28.54	Ave	50	1.0	H	4.65	33.19	54.00	-20.81
802.11ac(VHT80) U-NII-2A Low Channel 5290MHz									
164.47	40.77	QP	184	1.6	H	-11.62	29.15	43.50	-14.35
164.47	32.51	QP	89	1.6	V	-11.62	20.89	43.50	-22.61
4539.03	39.67	PK	218	1.5	H	-1.88	37.79	74.00	-36.21
4539.03	29.39	Ave	218	1.5	H	-1.88	27.51	54.00	-26.49
5112.44	44.43	PK	171	1.4	H	-1.06	43.37	74.00	-30.63
5112.44	42.10	Ave	171	1.4	H	-1.06	41.04	54.00	-12.96
10580.00	27.10	PK	64	1.4	H	4.65	31.75	74.00	-42.25
10580.00	27.71	Ave	64	1.4	H	4.65	32.36	54.00	-21.64

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11ac(VHT80) U-NII-2C Low Channel 5530MHz									
164.47	32.41	QP	1	1.4	H	-11.62	20.79	43.50	-22.71
164.47	39.06	QP	201	1.6	V	-11.62	27.44	43.50	-16.06
4520.53	29.34	PK	52	1.7	H	-1.88	27.46	74.00	-46.54
4520.53	44.56	Ave	52	1.7	H	-1.88	42.68	54.00	-11.32
5131.59	41.20	PK	230	1.1	H	-1.06	40.14	74.00	-33.86
5131.59	27.01	Ave	230	1.1	H	-1.06	25.95	54.00	-28.05
11060.00	44.43	PK	161	1.4	H	4.65	49.08	74.00	-24.92
11060.00	37.44	Ave	161	1.4	H	4.65	42.09	54.00	-11.91
802.11ac(VHT80) U-NII-3 Low channel 5775MHz									
164.47	32.22	QP	34	1.2	H	-11.62	20.60	43.50	-22.90
164.47	38.47	QP	352	1.3	V	-11.62	26.85	43.50	-16.65
4515.62	39.39	PK	160	1.9	H	-1.85	37.54	74.00	-36.46
4515.62	43.15	Ave	160	1.9	H	-1.85	41.30	54.00	-12.70
5364.66	42.05	PK	183	1.7	H	4.83	46.88	74.00	-27.12
5364.66	29.30	Ave	183	1.7	H	4.83	34.13	54.00	-19.87
11550.00	45.84	PK	319	1.3	H	-1.14	44.70	74.00	-29.30
11550.00	39.26	Ave	319	1.3	H	-1.14	38.12	54.00	-15.88

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+A1-2024
Test Limit:	For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz. Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following: a) 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; b) 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; c) 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and d) -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.
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. 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.
4. 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.
5. Repeat above procedures until all measured frequencies were complete.

10.2 Test Result

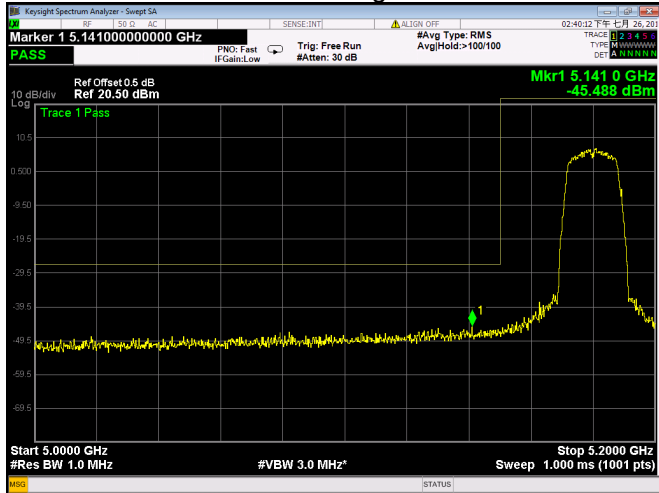
Note: Both Ant. 1 and Ant. 2 have been tested separately, and the report only shows the worst case.

Test result plots shown as follows:

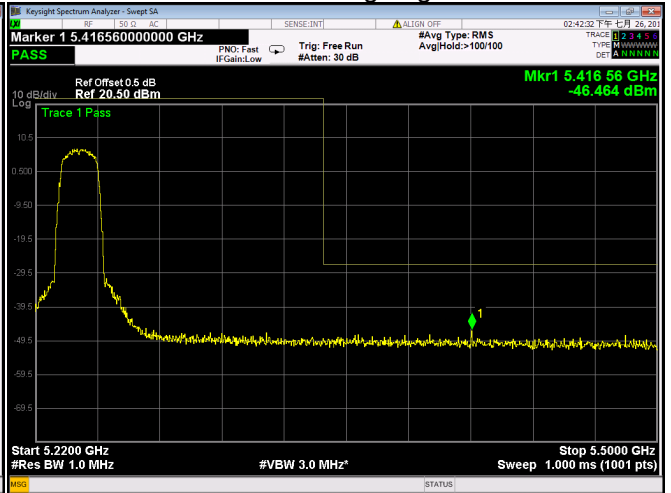
Ant. 1

U-NII-1

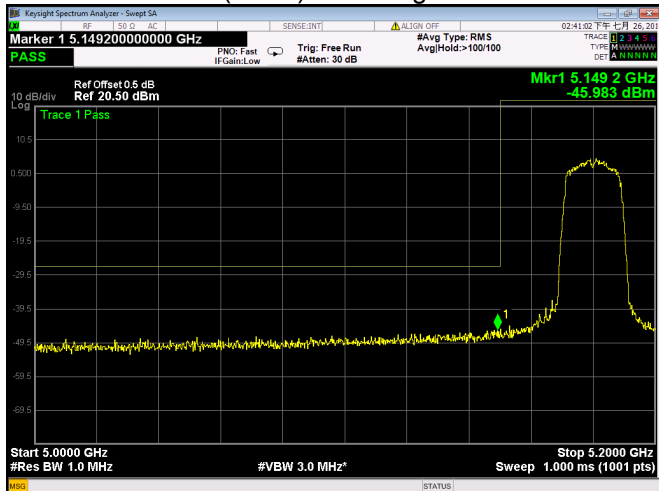
802.11a Band edge-left side



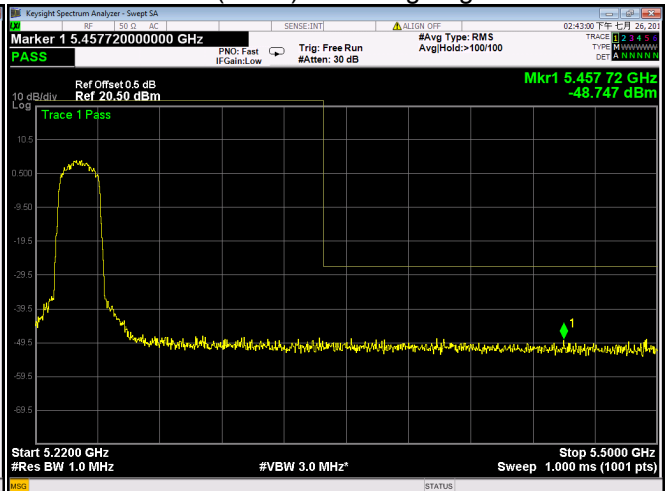
802.11a Band edge-right side



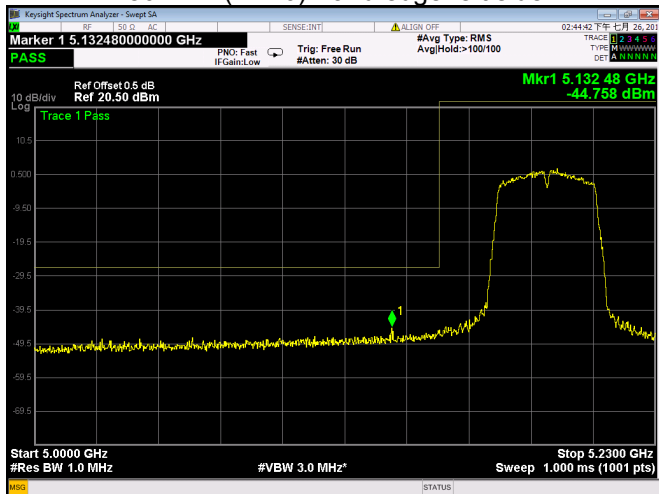
802.11n(HT20) Band edge-left side



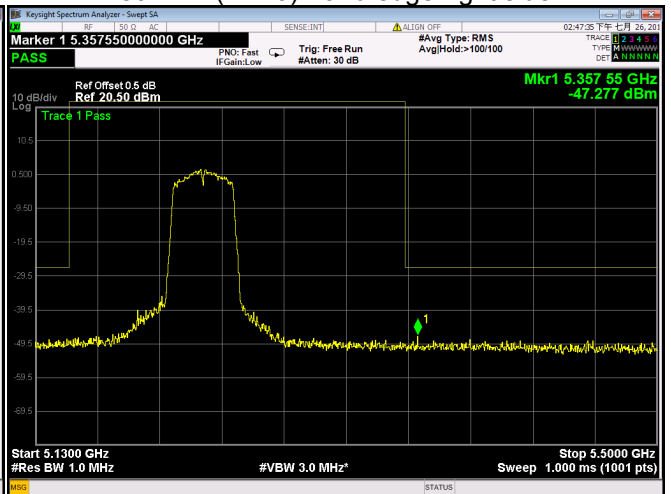
802.11n(HT20) Band edge-right side



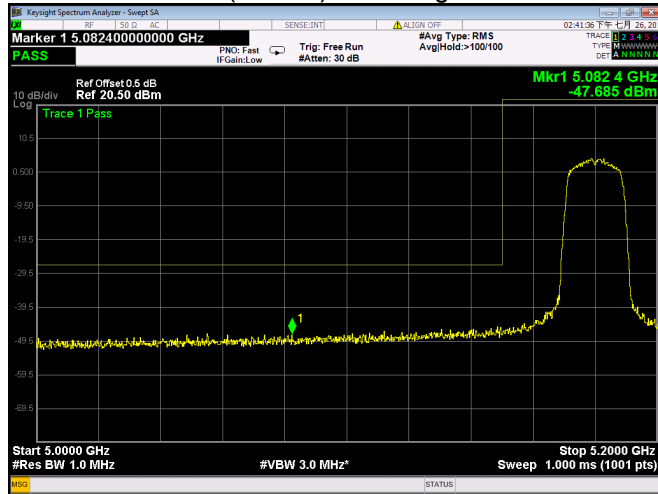
802.11n(HT40) Band edge-left side



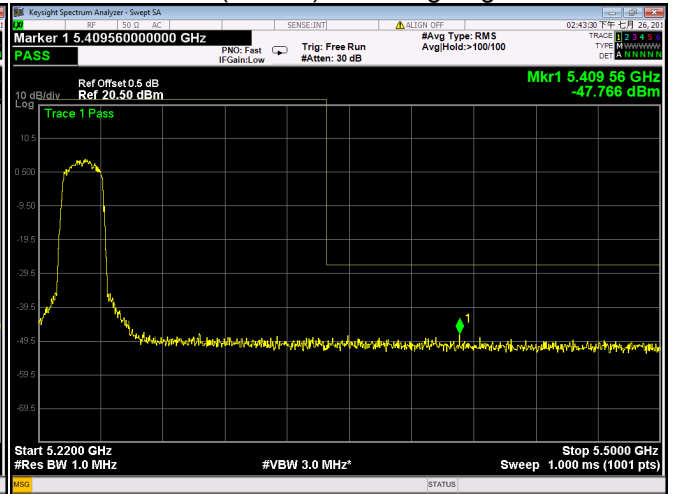
802.11n(HT40) Band edge-right side



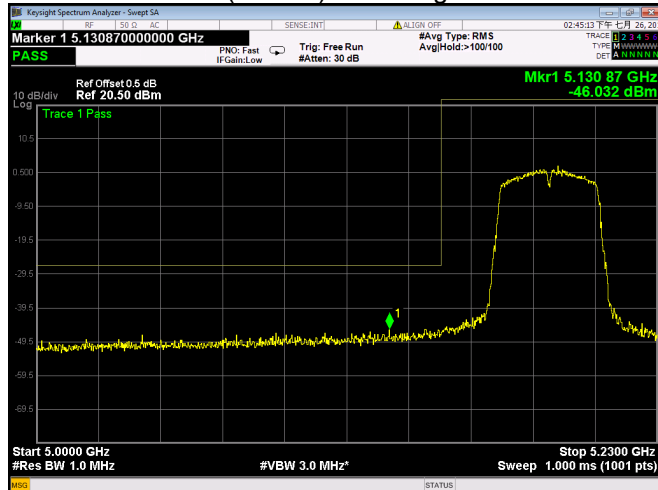
802.11ac (VHT20) Band edge-left side



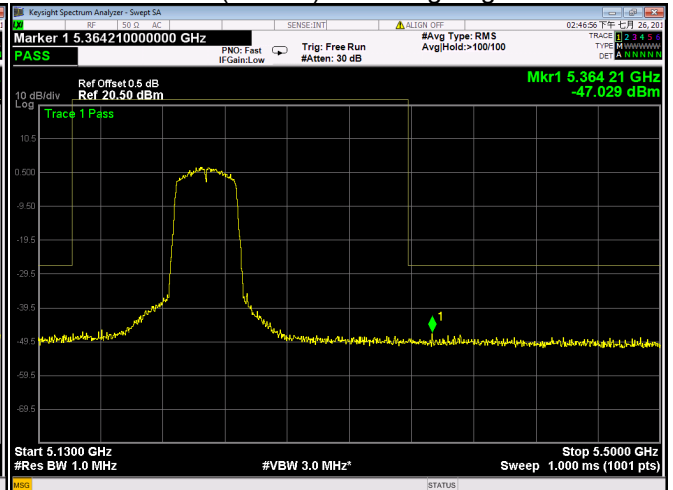
802.11ac (VHT20) Band edge-right side



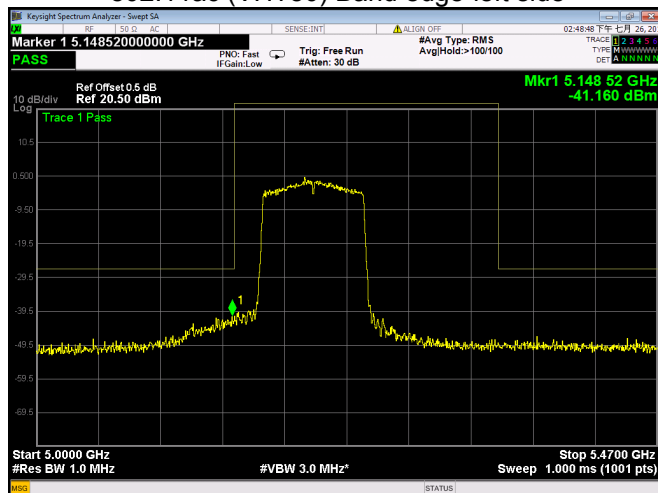
802.11ac (VHT40) Band edge-left side



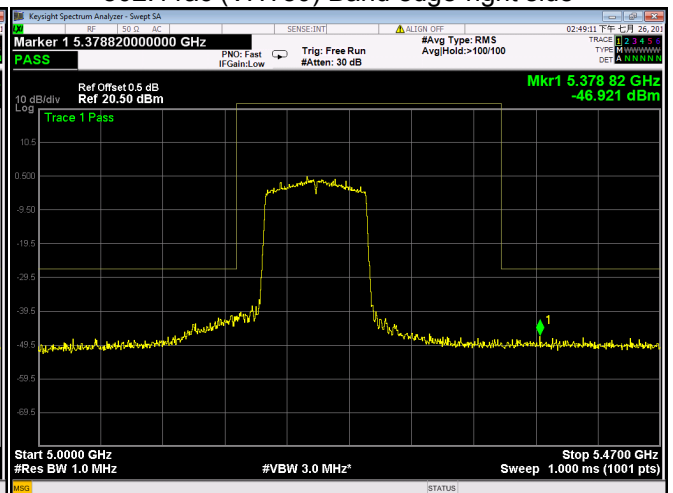
802.11ac (VHT40) Band edge-right side



802.11ac (VHT80) Band edge-left side

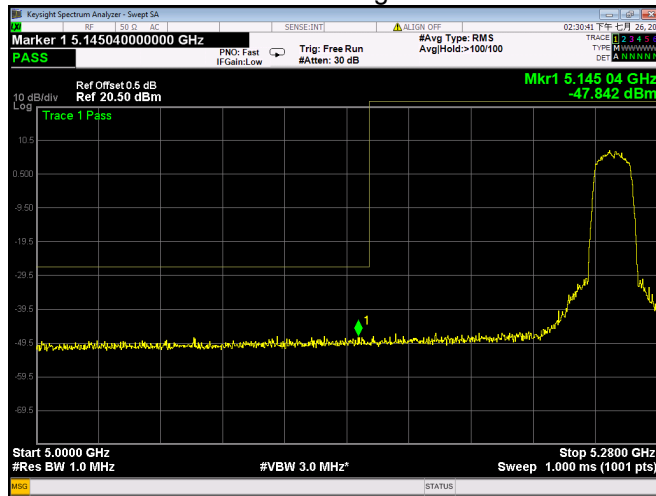


802.11ac (VHT80) Band edge-right side

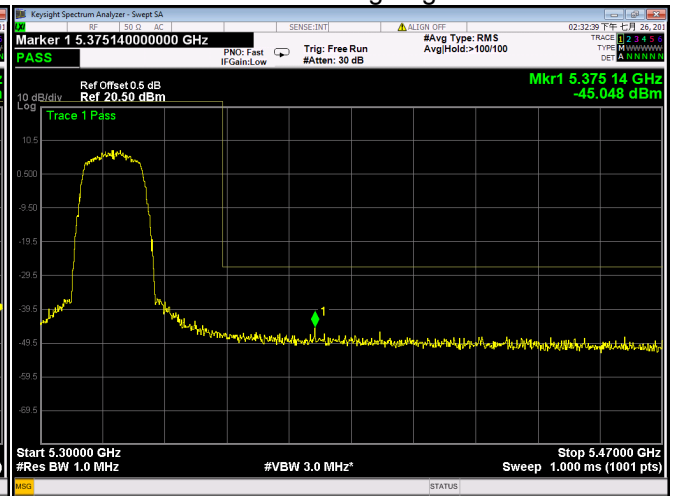


U-NII-2A

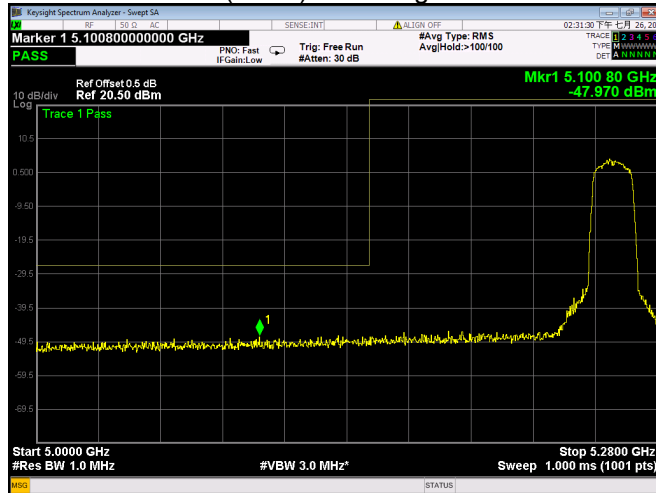
802.11a Band edge-left side



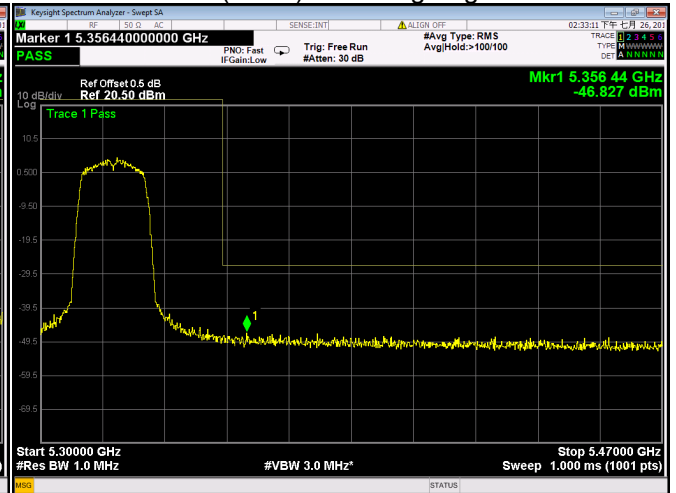
802.11a Band edge-right side



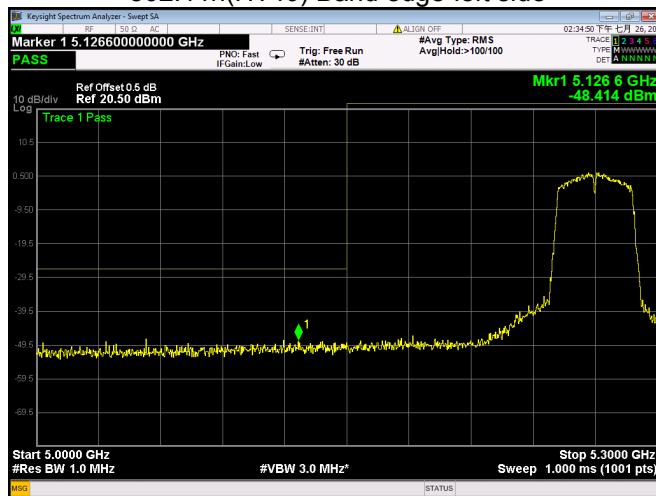
802.11n(HT20) Band edge-left side



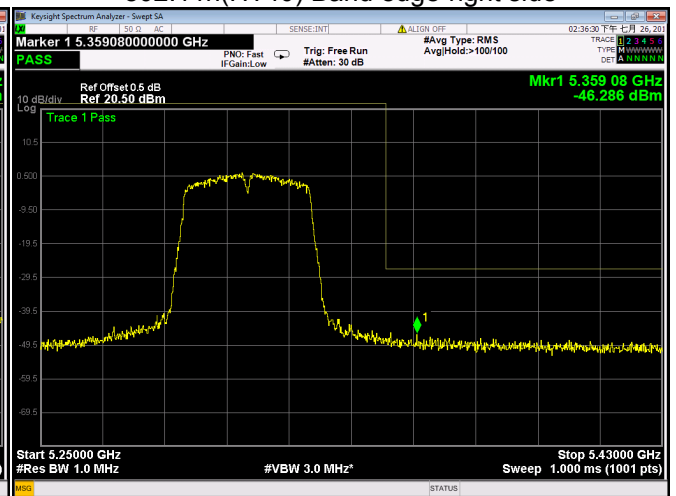
802.11n(HT20) Band edge-right side



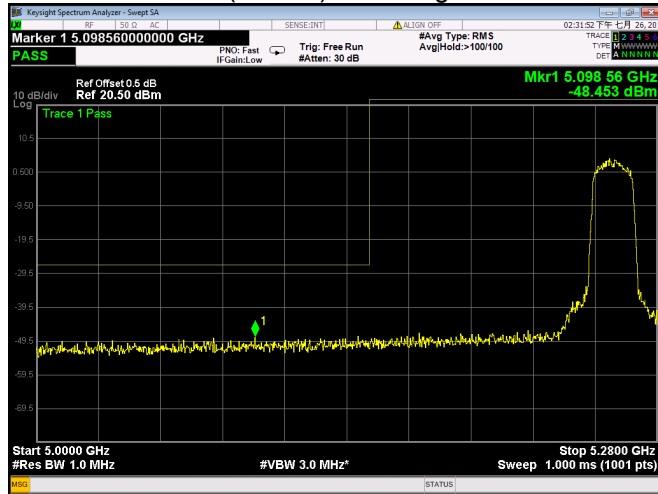
802.11n(HT40) Band edge-left side



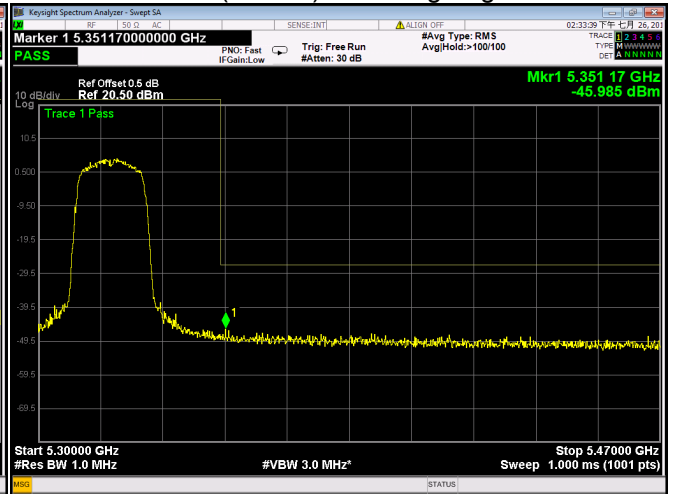
802.11n(HT40) Band edge-right side



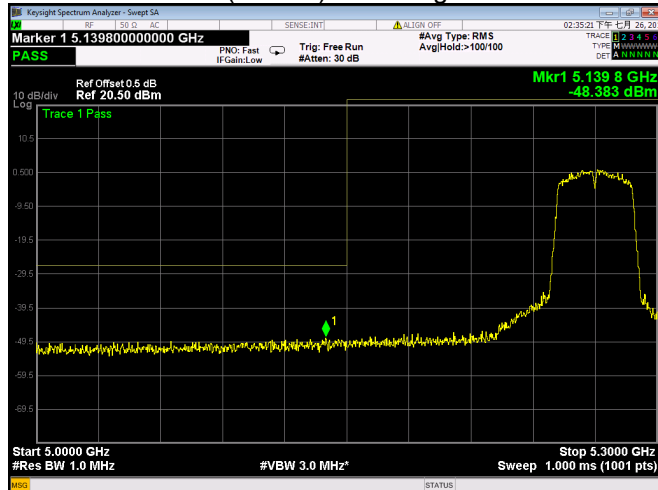
802.11ac (VHT20) Band edge-left side



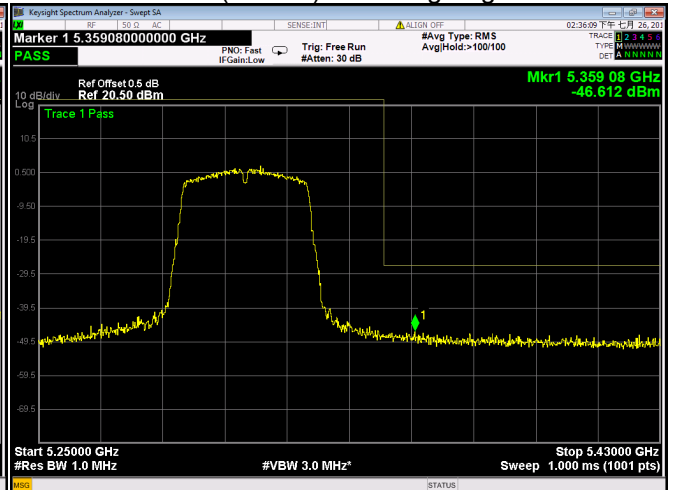
802.11ac (VHT20) Band edge-right side



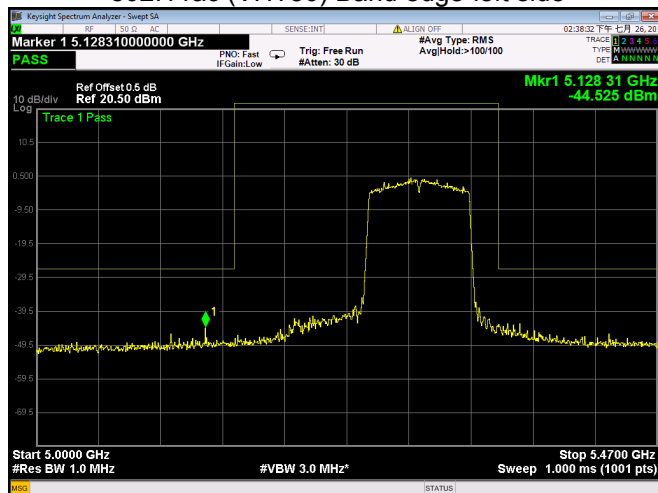
802.11ac (VHT40) Band edge-left side



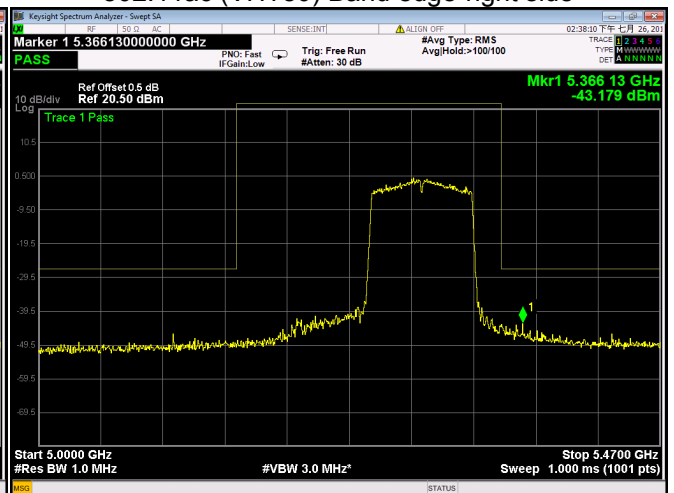
802.11ac (VHT40) Band edge-right side



802.11ac (VHT80) Band edge-left side

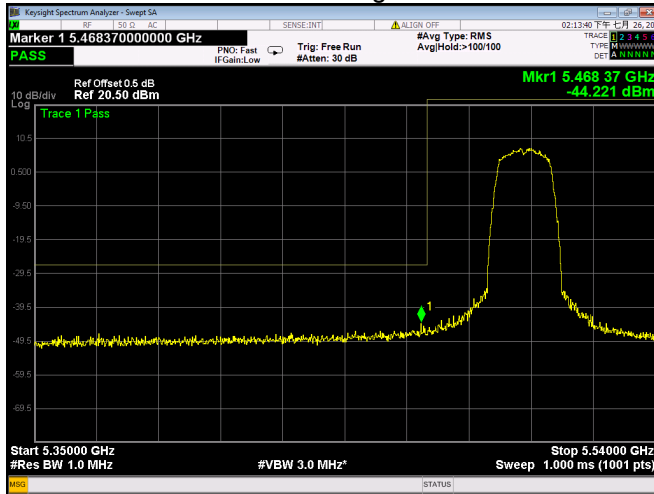


802.11ac (VHT80) Band edge-right side

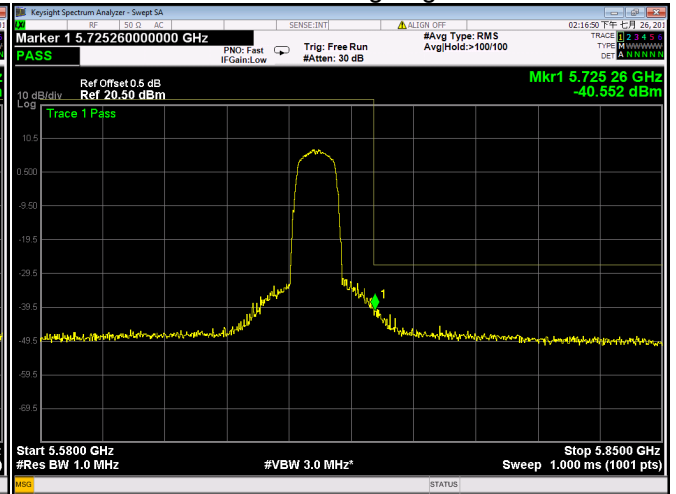


U-NII-2C

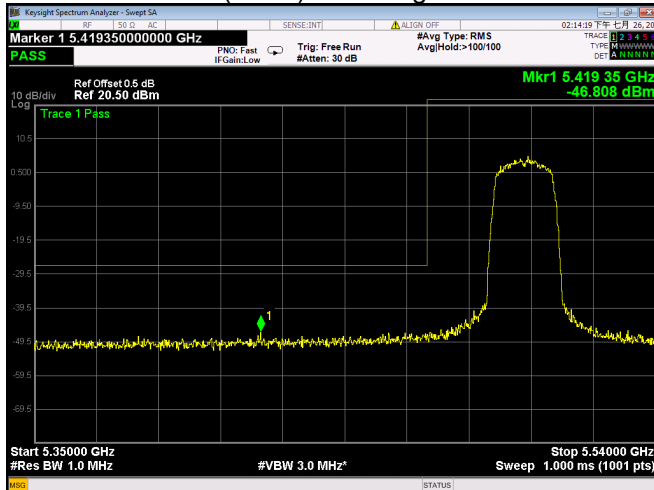
802.11a Band edge-left side



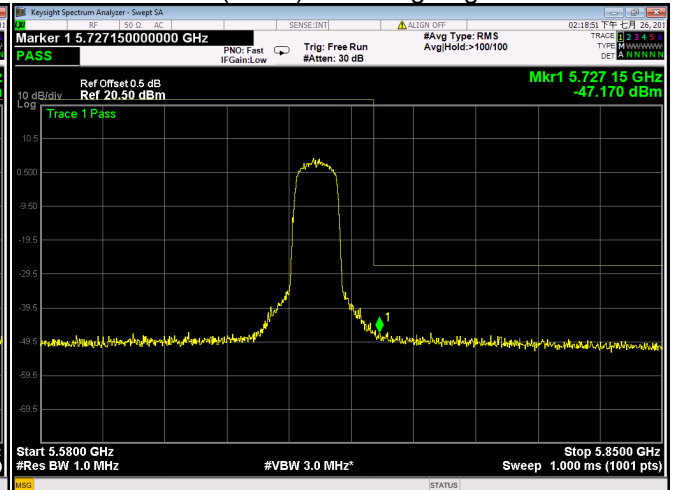
802.11a Band edge-right side



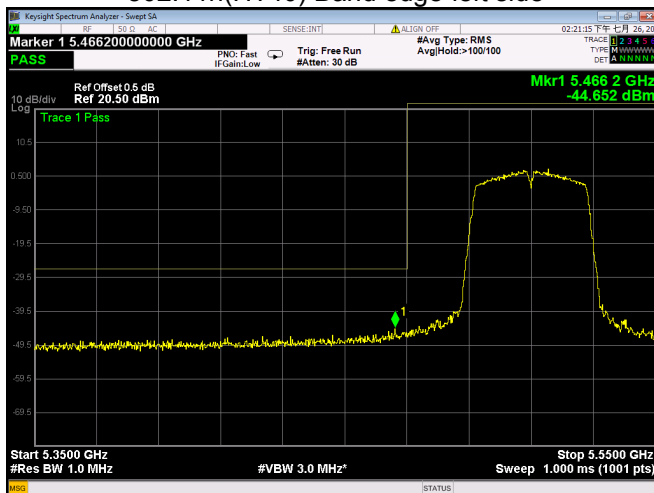
802.11n(HT20) Band edge-left side



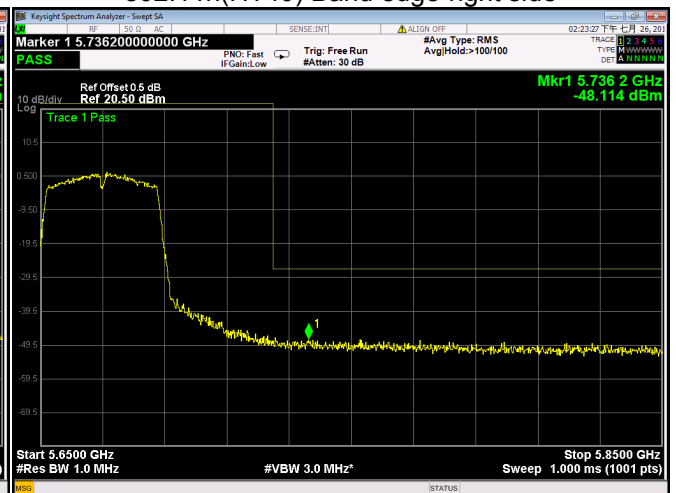
802.11n(HT20) Band edge-right side



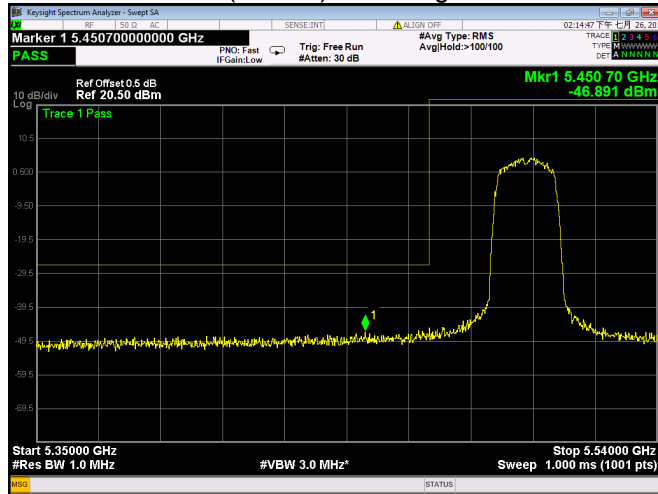
802.11n(HT40) Band edge-left side



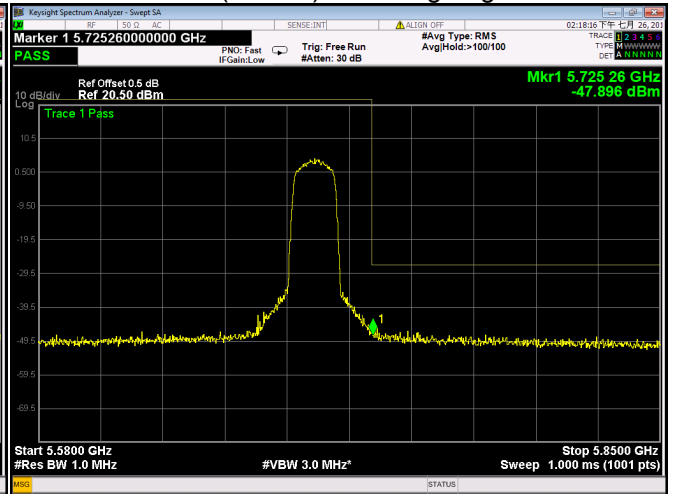
802.11n(HT40) Band edge-right side



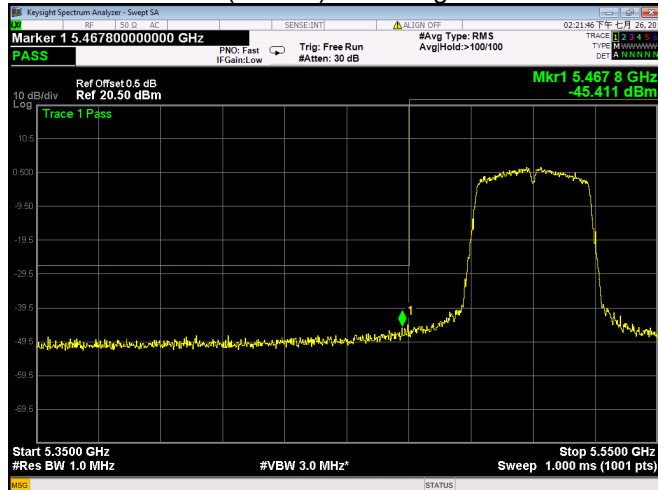
802.11ac (VHT20) Band edge-left side



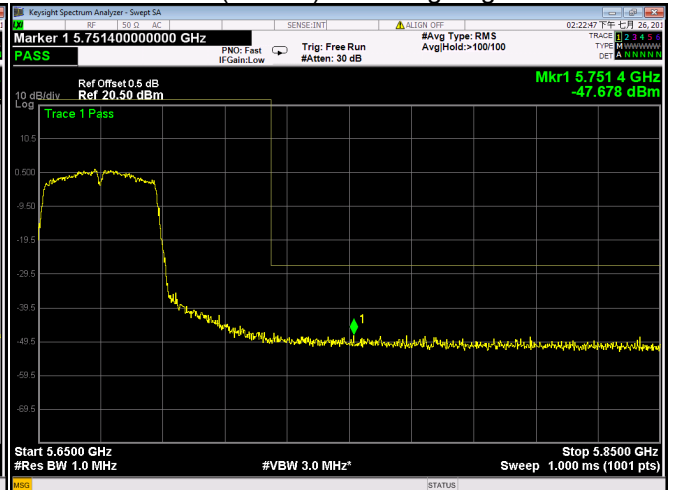
802.11ac (VHT20) Band edge-right side



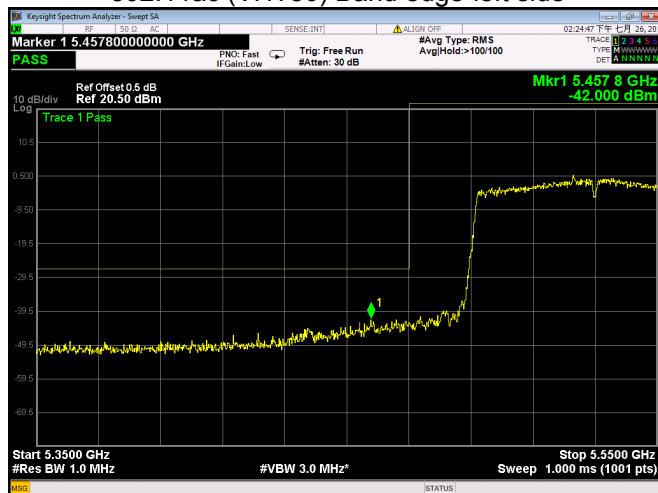
802.11ac (VHT40) Band edge-left side



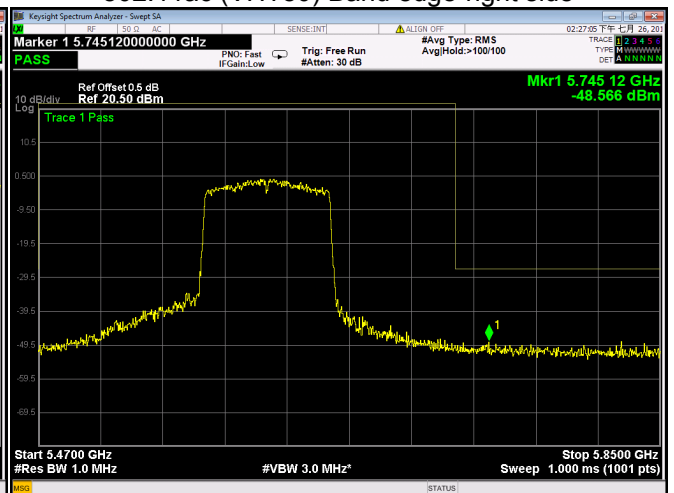
802.11ac (VHT40) Band edge-right side



802.11ac (VHT80) Band edge-left side

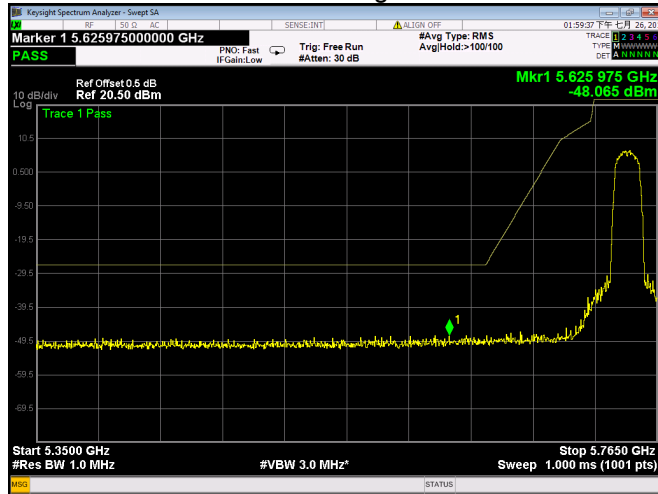


802.11ac (VHT80) Band edge-right side

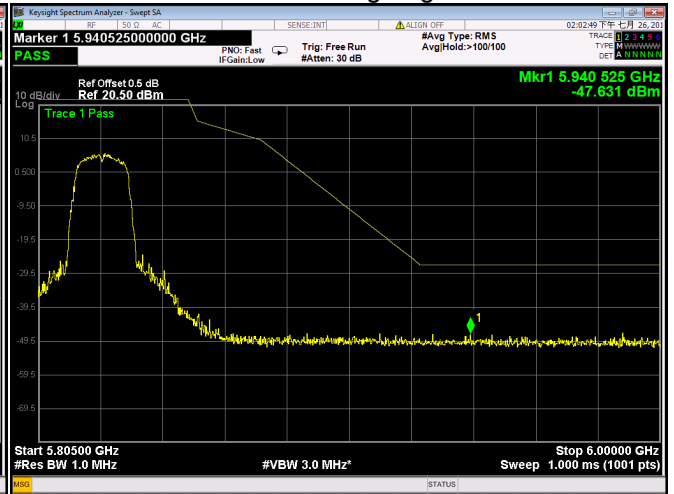


U-NII-3

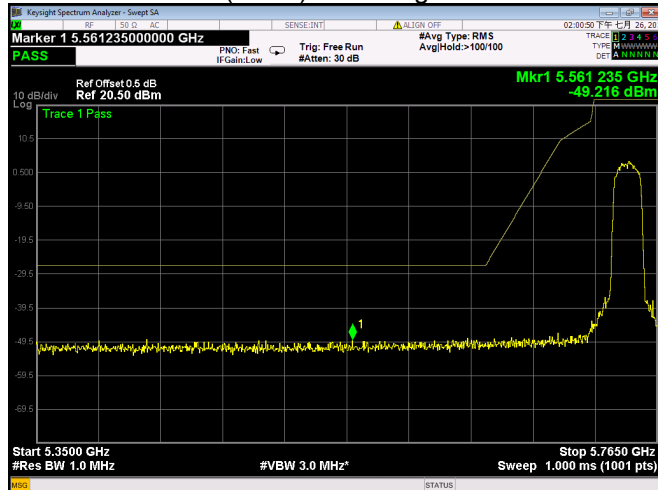
802.11a Band edge-left side



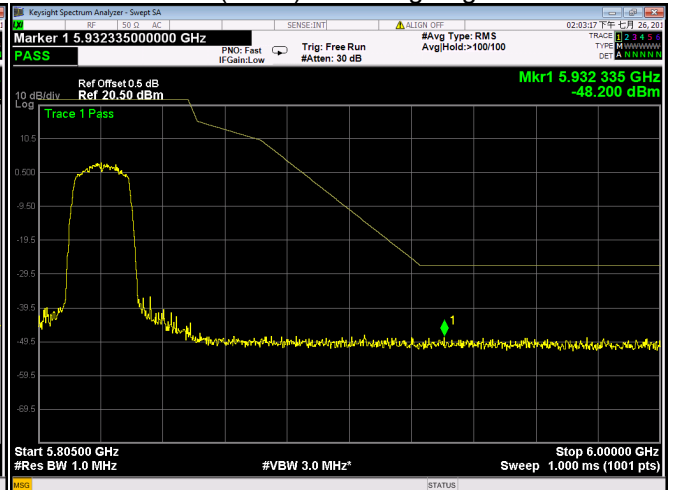
802.11a Band edge-right side



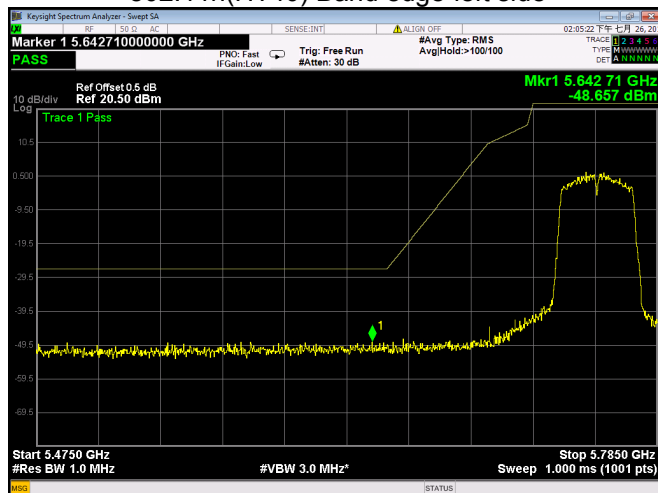
802.11n(HT20) Band edge-left side



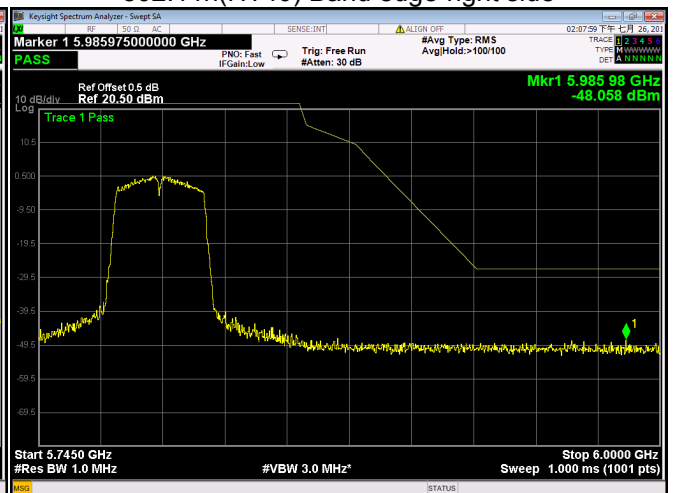
802.11n(HT20) Band edge-right side



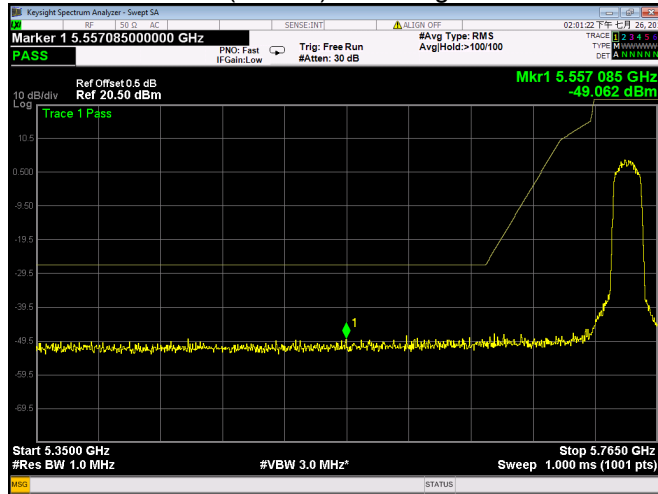
802.11n(HT40) Band edge-left side



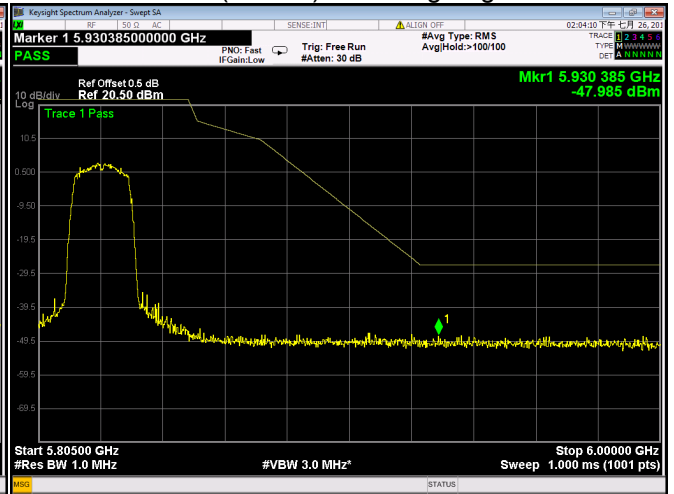
802.11n(HT40) Band edge-right side



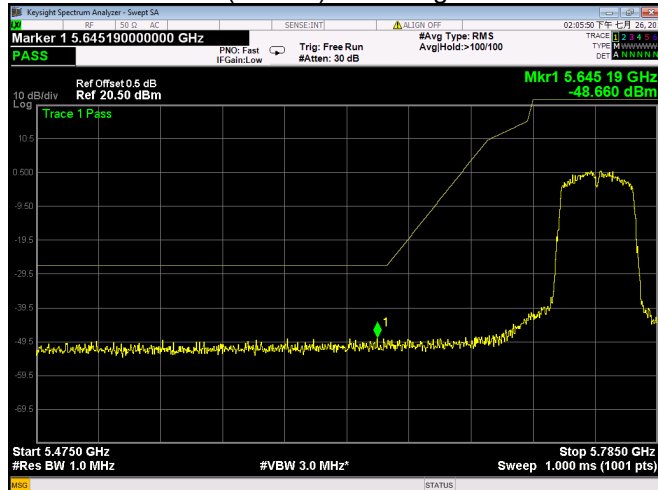
802.11ac (VHT20) Band edge-left side



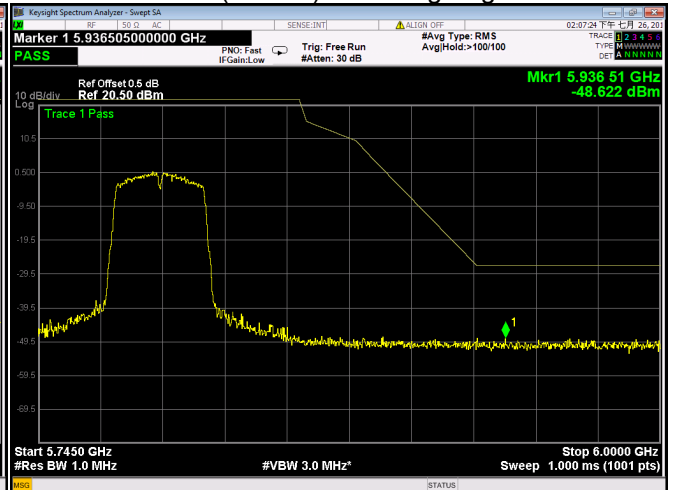
802.11ac (VHT20) Band edge-right side



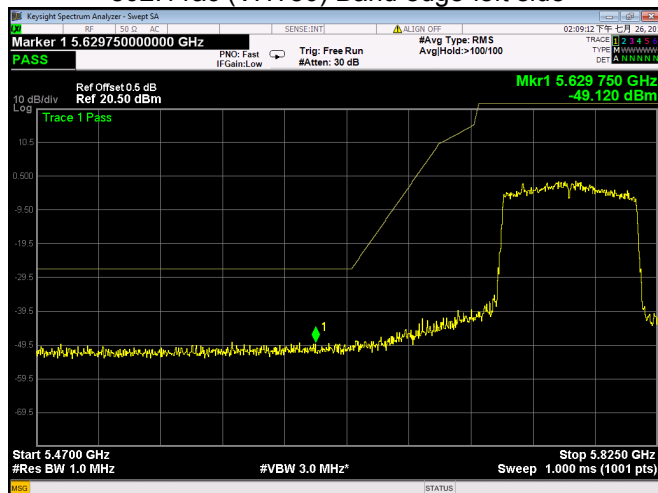
802.11ac (VHT40) Band edge-left side



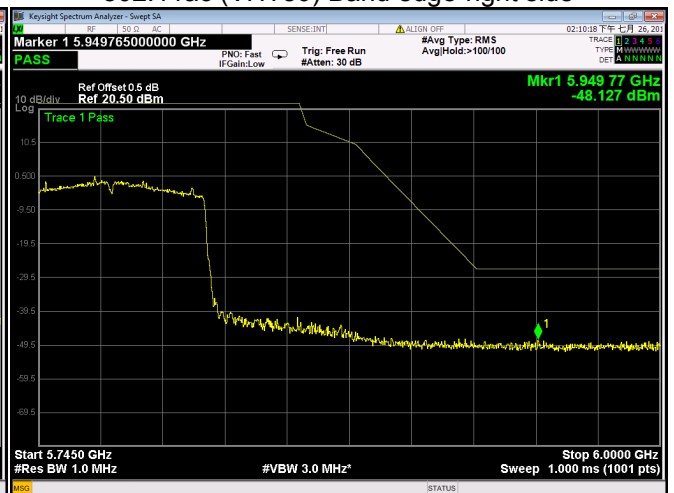
802.11ac (VHT40) Band edge-right side



802.11ac (VHT80) Band edge-left side



802.11ac (VHT80) Band edge-right side



11 6 dB Bandwidth

Test Requirement:	FCC 47CFR Part 15 Section 15.407(e)
Test Method:	KDB662911 D01 Multiple Transmitter Output v02r01 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. The following procedure shall be used for measuring this bandwidth:
 - a) Set RBW = 100 kHz.
 - b) Set the video bandwidth (VBW) ≥ 3 times RBW.
 - c) Detector = Peak.
 - d) Trace mode = max hold.
 - e) Sweep = auto couple.
 - f) Allow the trace to stabilize.
 - g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

11.2 Test Result

Ant. 1

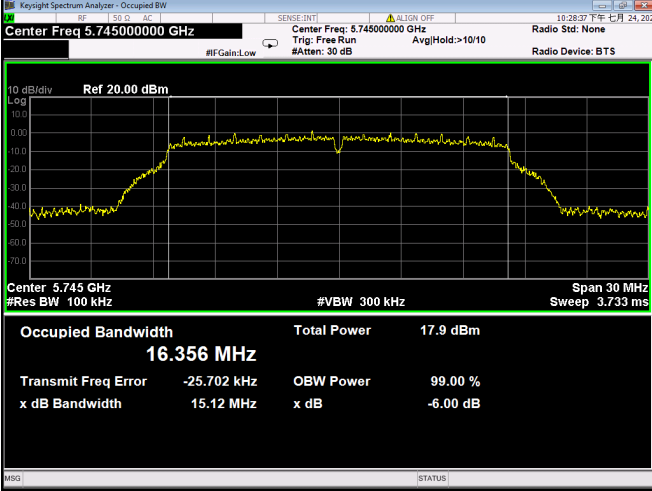
Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
U-NII-3	802.11a	15.12	15.10	15.31
	802.11n(HT20)	13.88	14.98	15.69
	802.11n(HT40)	35.05	/	34.99
	802.11ac (VHT20)	15.02	17.51	15.13
	802.11ac (VHT40)	35.12	/	35.07
	802.11ac (VHT80)	/	75.16	/

Note: Both Ant. 1 and Ant. 2 have been tested separately, and the report only shows the worst case.

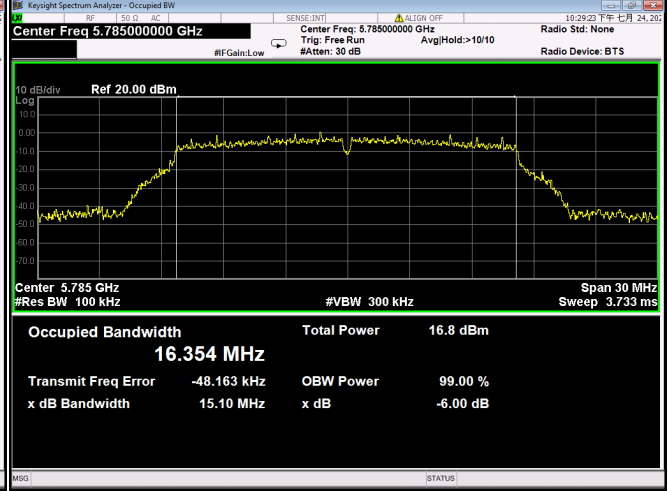
Test plots refer to next page:

Test result plot:

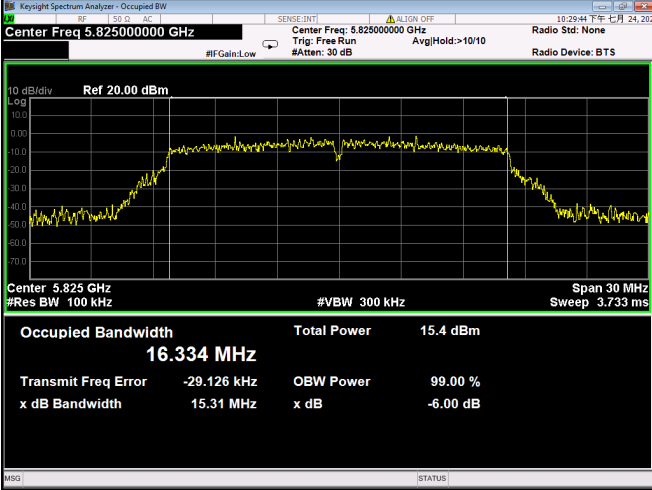
802.11a U-NII-3 Low channel



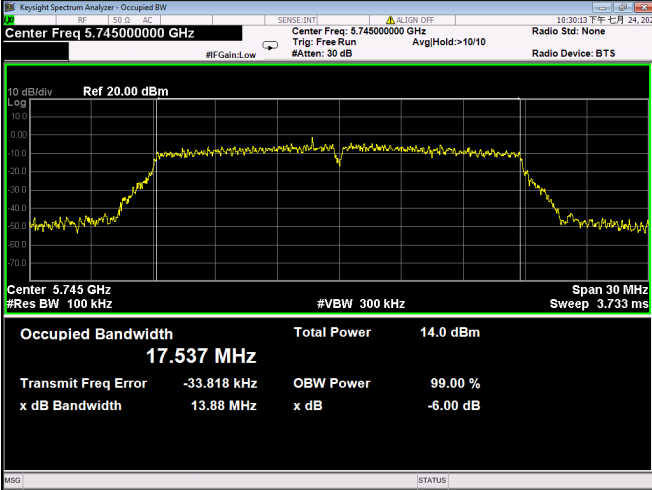
802.11a U-NII-3 Middle channel



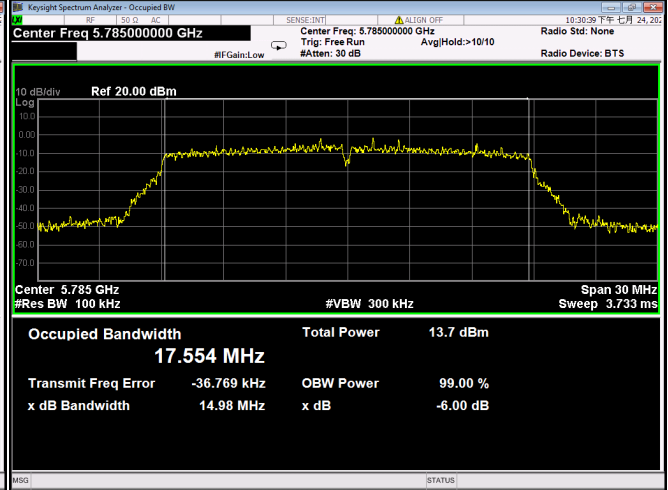
802.11a U-NII-3 High channel



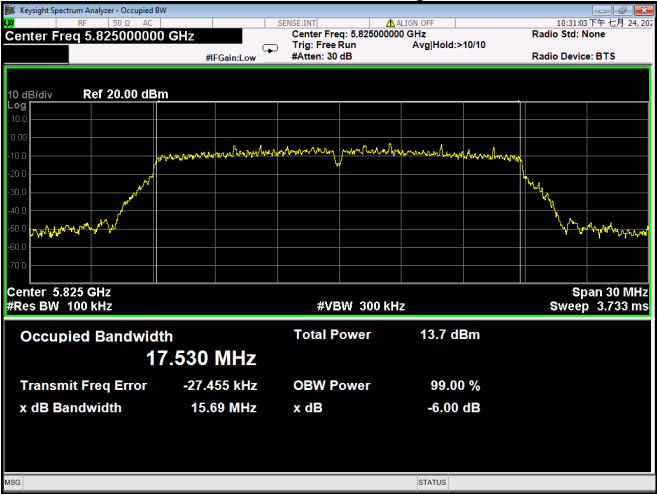
802.11n HT20 U-NII-3 Low channel



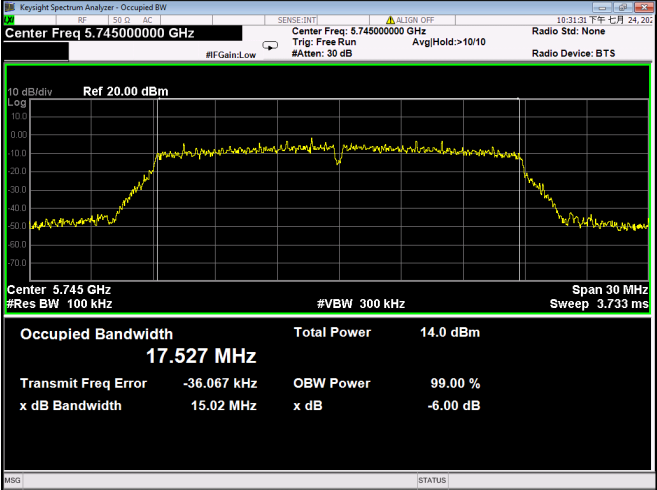
802.11n HT20 U-NII-3 Middle channel



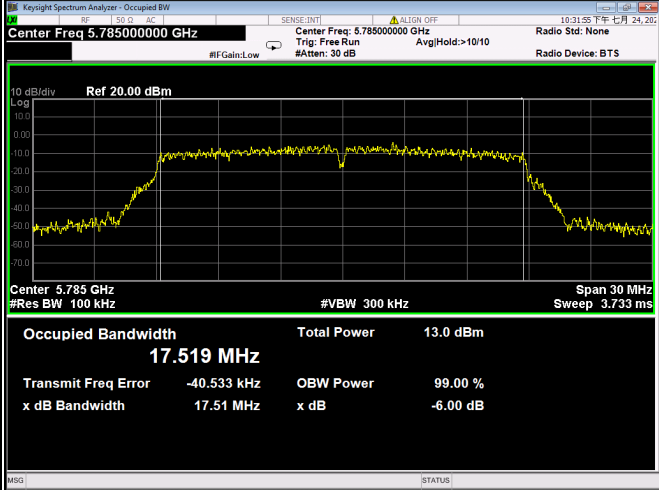
802.11n HT20 U-NII-3 High channel



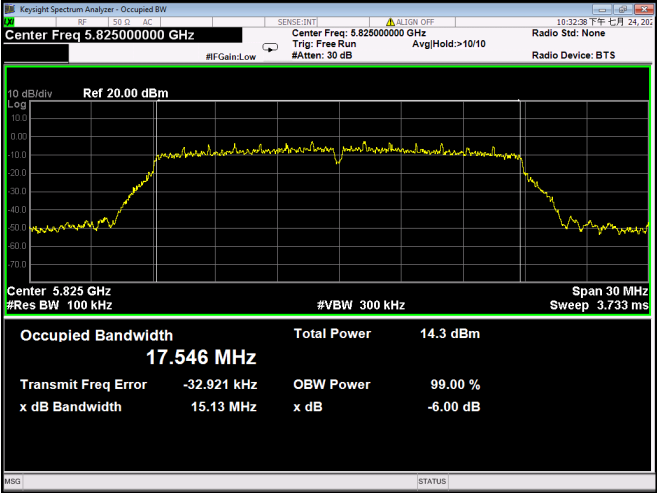
802.11ac VHT20 U-NII-3 Low channel



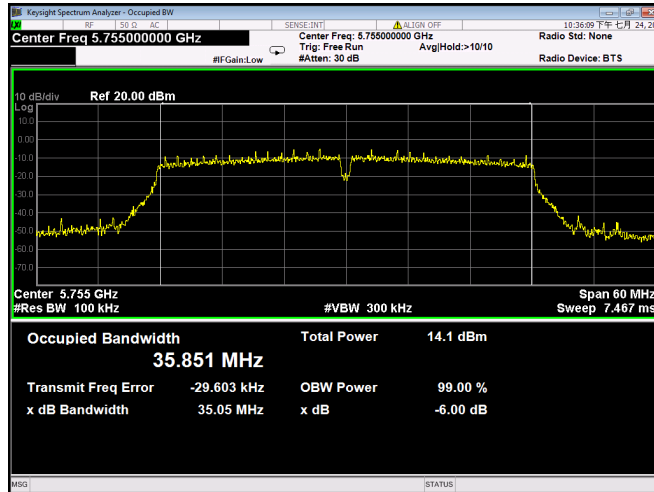
802.11ac VHT20 U-NII-3 Middle channel



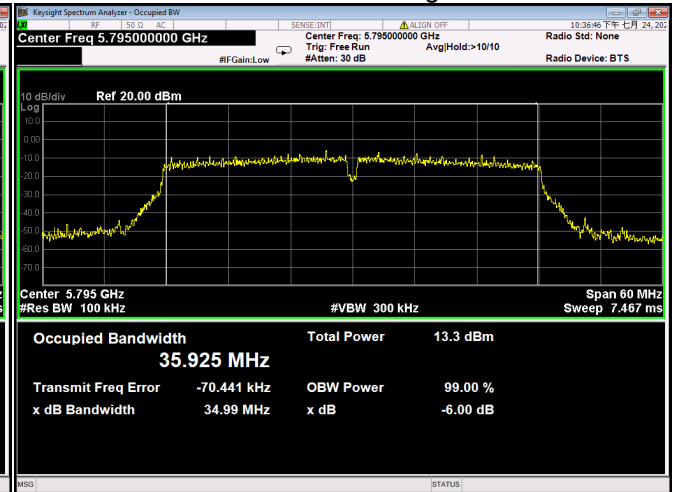
802.11ac VHT20 U-NII-3 High channel



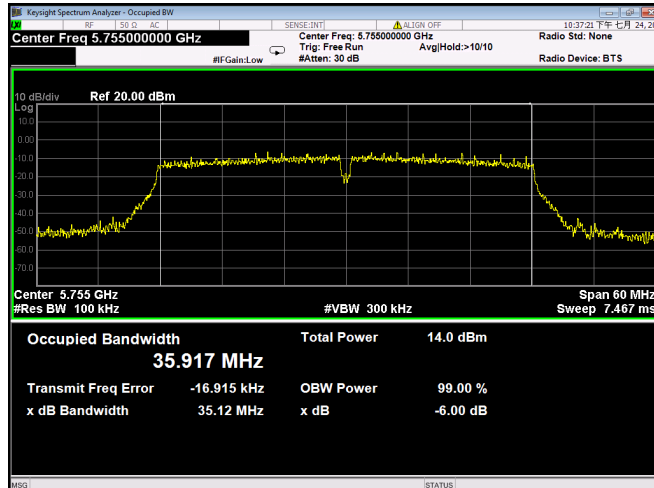
802.11n HT40 U-NII-3 Low channel



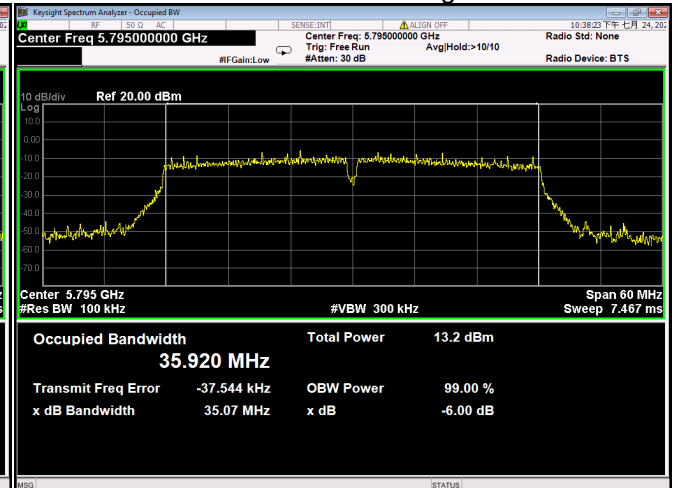
802.11n HT40 U-NII-3 High channel



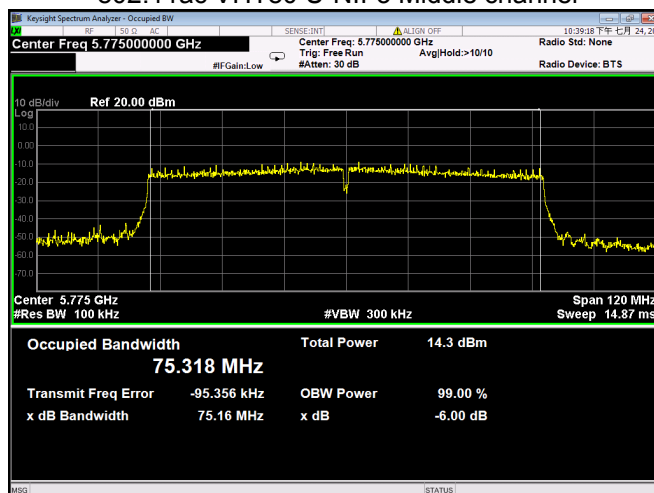
802.11ac VHT40 U-NII-3 Low channel



802.11ac VHT40 U-NII-3 High channel



802.11ac VHT80 U-NII-3 Middle channel



12 26 dB Bandwidth and 99% Occupied Bandwidth

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 D
Test Limit:	No restriction limits
Test Result:	PASS

12.1 Test Procedure

Emission Bandwidth (EBW)

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

99% Occupied Bandwidth

The following procedure shall be used for measuring (99%) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1% to 5% of the OBW
- Set VBW $\geq$ 3 times RBW
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument (if available).
- If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Note: For devices that use channel aggregation refer to III.A and III.C for determining 99% bandwidth.

12.2 Test Result

Ant. 1

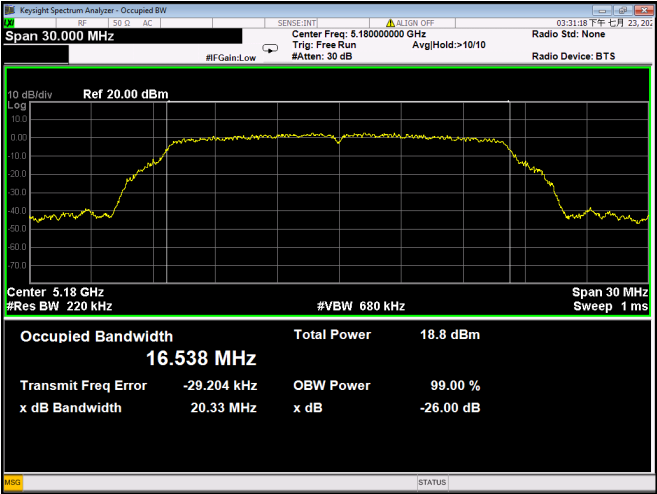
Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
U-NII-1	802.11a	20.33	20.07	20.32	16.538	16.524	16.526
	802.11n(HT20)	20.36	20.33	20.16	17.571	17.583	17.552
	802.11n(HT40)	40.64	/	40.20	36.012	/	36.011
	802.11ac (VHT20)	20.17	20.26	20.37	17.557	17.554	17.592
	802.11ac (VHT40)	40.40	/	40.28	35.957	/	36.035
	802.11ac (VHT80)	/	80.41	/	/	75.429	/
U-NII-2A	802.11a	20.21	20.07	19.91	16.463	16.453	16.444
	802.11n(HT20)	20.20	20.12	20.35	17.572	17.572	17.558
	802.11n(HT40)	40.67	/	40.50	35.997	/	36.013
	802.11ac (VHT20)	20.02	19.99	20.17	17.560	17.551	17.556
	802.11ac (VHT40)	40.35	/	40.38	35.974	/	36.023
	802.11ac (VHT80)	80.54	/	/	75.447	/	/
U-NII-2C	802.11a	20.36	19.72	19.79	16.420	16.445	16.434
	802.11n(HT20)	19.94	20.24	20.23	17.548	17.556	17.559
	802.11n(HT40)	40.69	40.43	40.29	36.017	36.003	36.001
	802.11ac (VHT20)	20.12	20.04	20.15	17.535	17.551	17.550
	802.11ac (VHT40)	40.68	40.51	40.12	36.033	36.027	36.025
	802.11ac (VHT80)	80.40	/	80.35	75.392	/	75.442
U-NII-3	802.11a	/	/	/	16.490	16.474	16.482
	802.11n(HT20)	/	/	/	17.580	17.557	17.578
	802.11n(HT40)	/	/	/	35.982	/	36.002
	802.11ac (VHT20)	/	/	/	17.556	17.554	17.535
	802.11ac (VHT40)	/	/	/	35.974	/	36.027
	802.11ac (VHT80)	/	/	/	/	75.469	/

Note: Both Ant. 1 and Ant. 2 have been tested separately, and the report only shows the worst case.

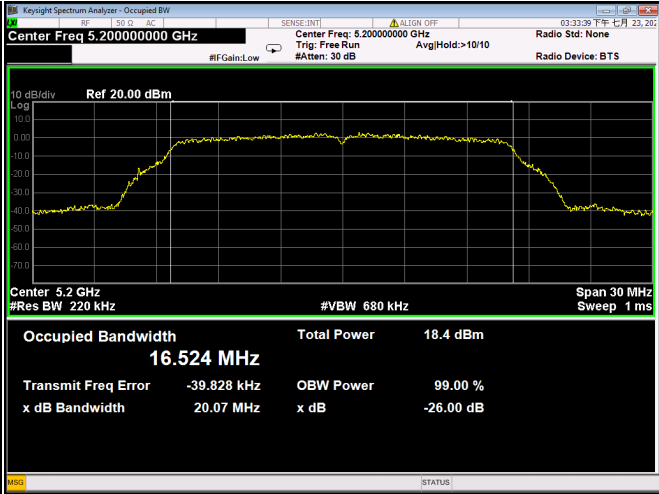
Test plots refer to next page:

U-NII-1

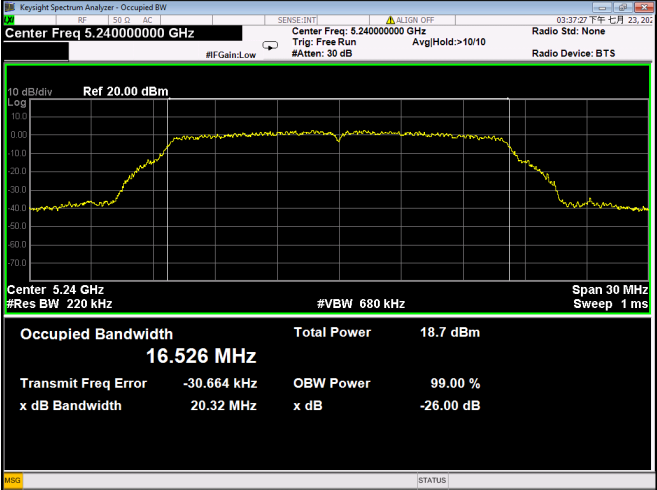
802.11a Low channel



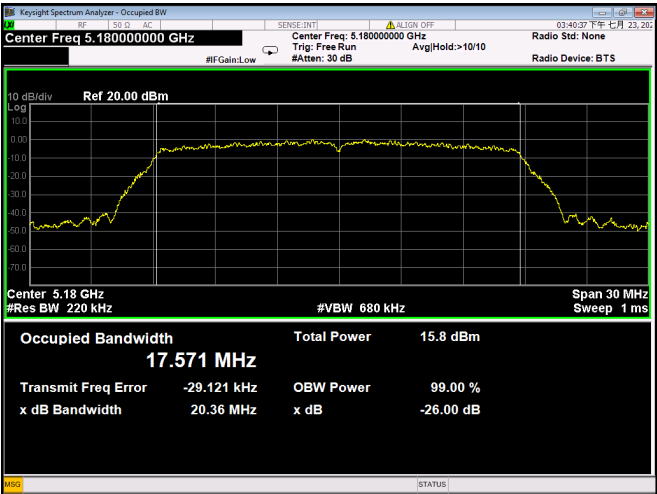
802.11a Middle channel



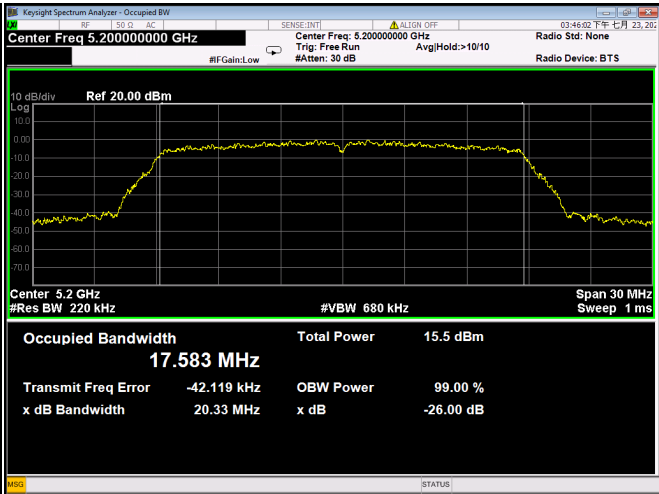
802.11a High channel



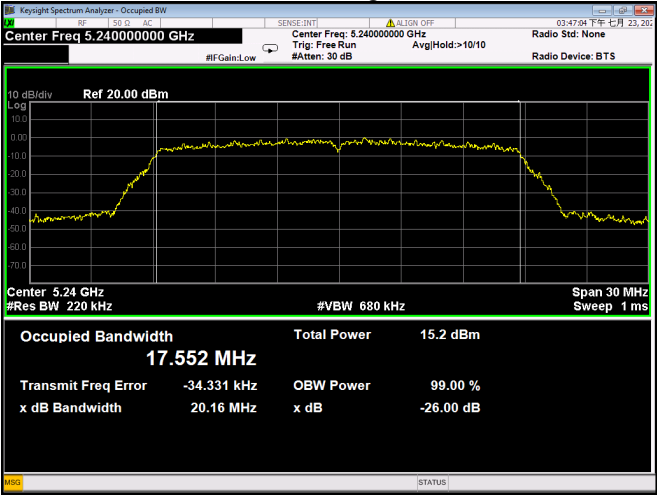
802.11n HT20 Low channel



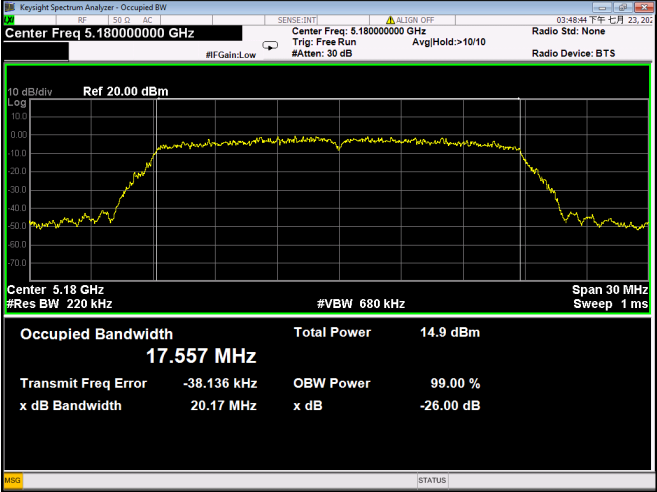
802.11n HT20 Middle channel



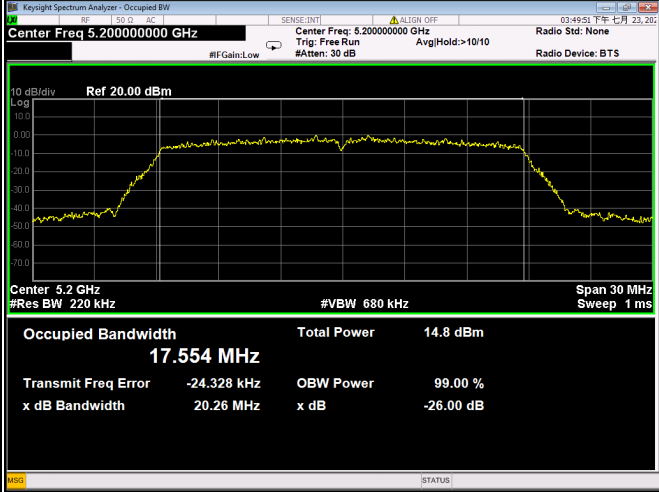
802.11n HT20 High channel



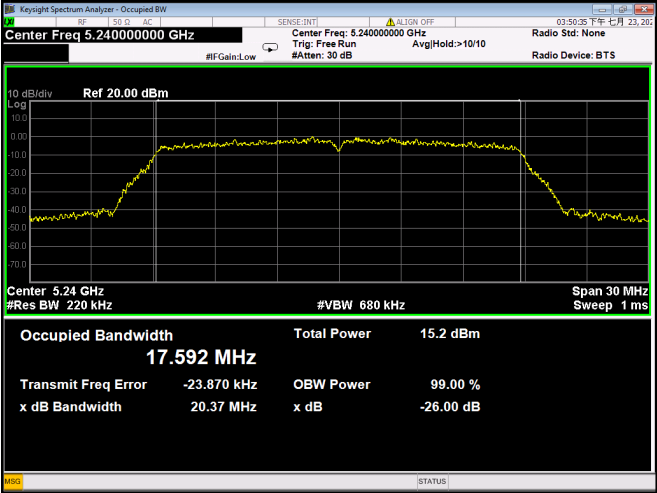
802.11ac VHT20 Low channel



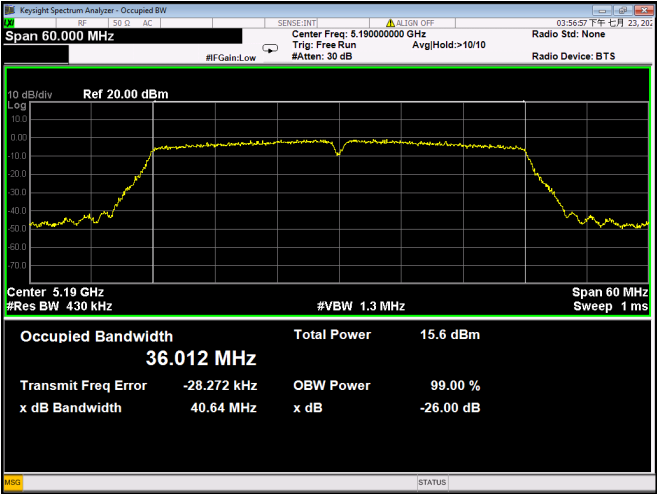
802.11ac VHT20 Middle channel



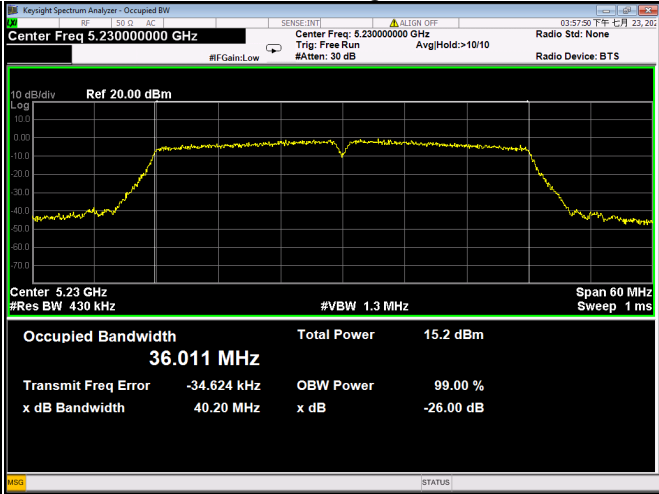
802.11ac VHT20 High channel



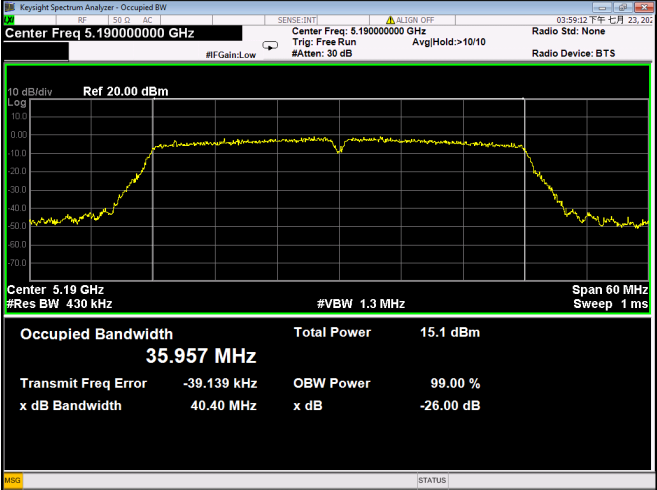
802.11n HT40 Low channel



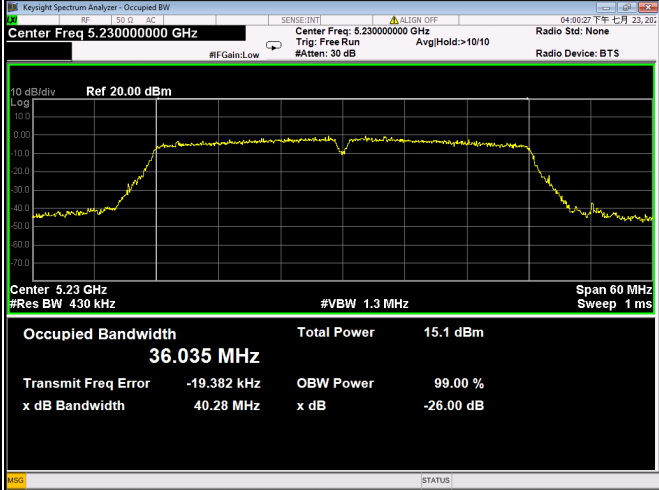
802.11n HT40 High channel



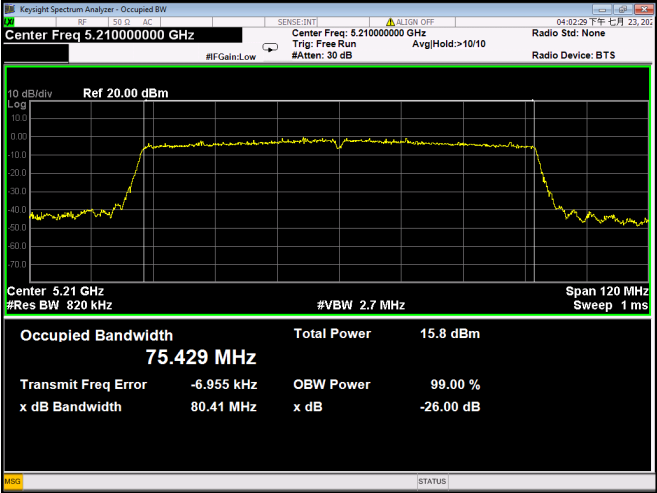
802.11ac VHT40 Low channel



802.11ac VHT40 High channel

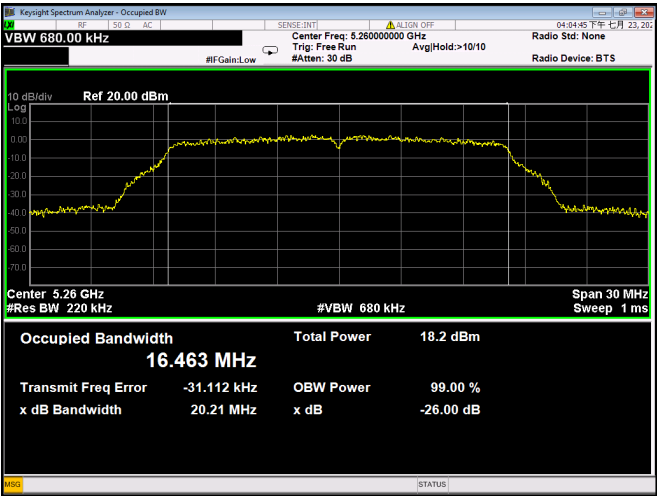


802.11ac VHT80 Middle channel

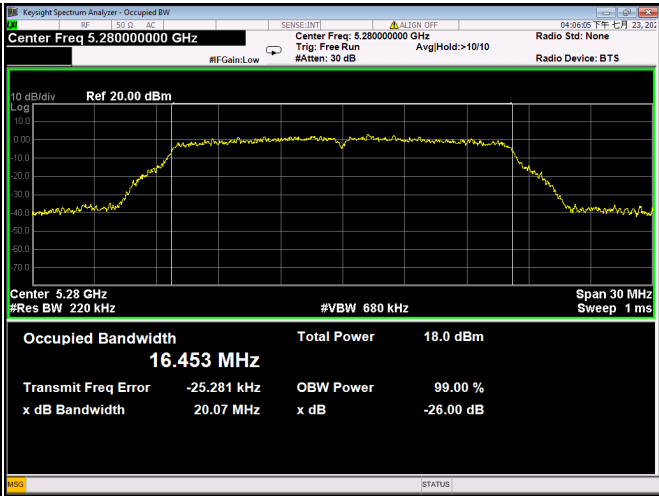


U-NII-2A

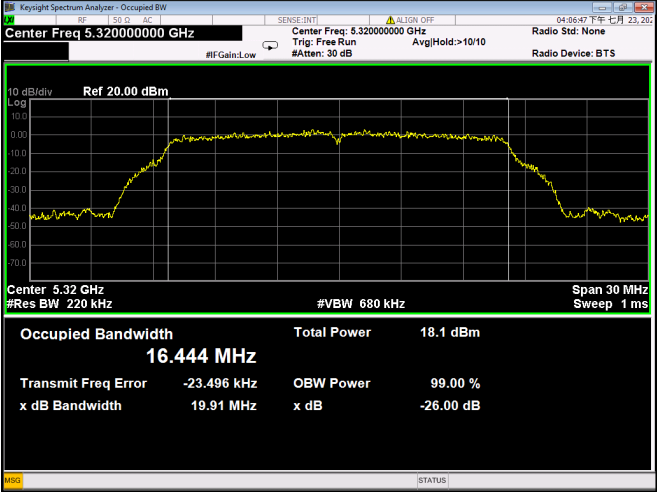
802.11a Low channel



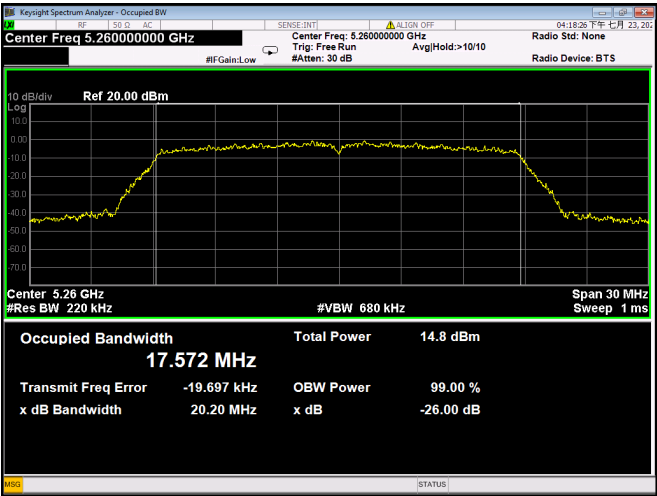
802.11a Middle channel



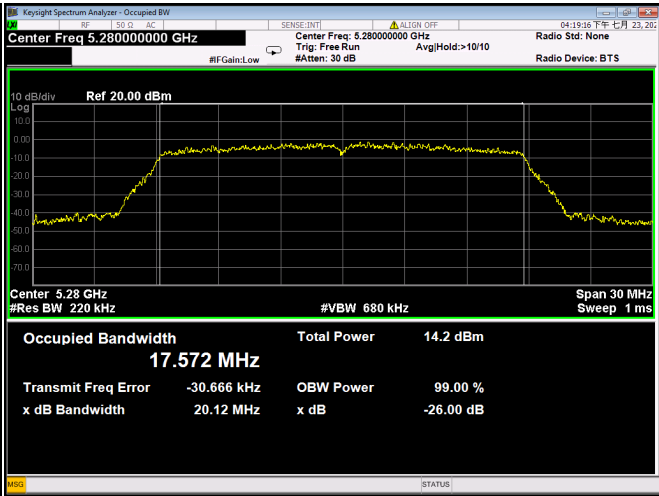
802.11a High channel



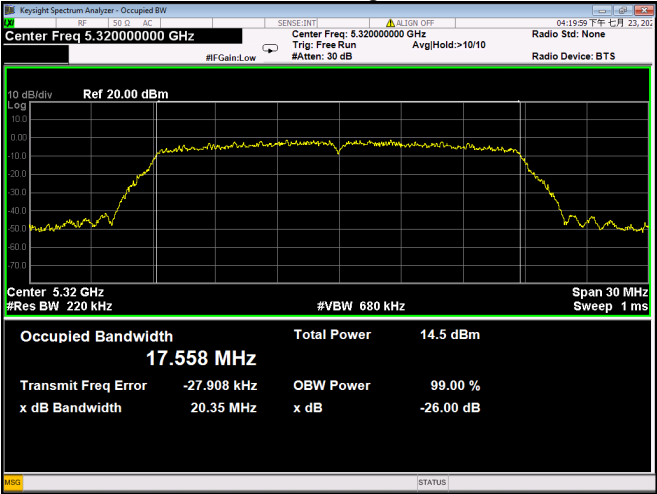
802.11n HT20 Low channel



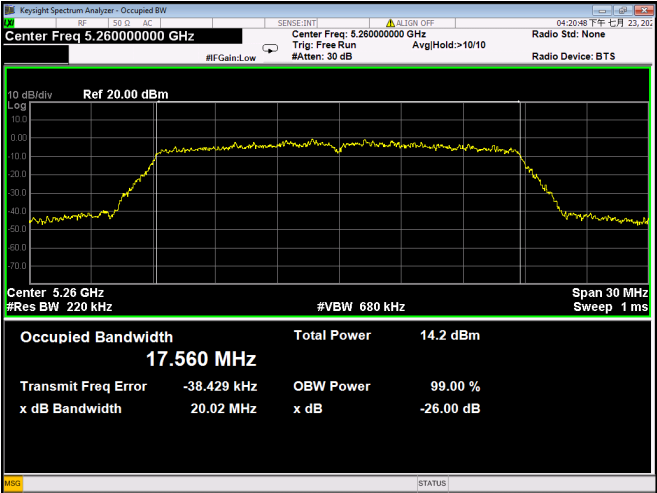
802.11n HT20 Middle channel



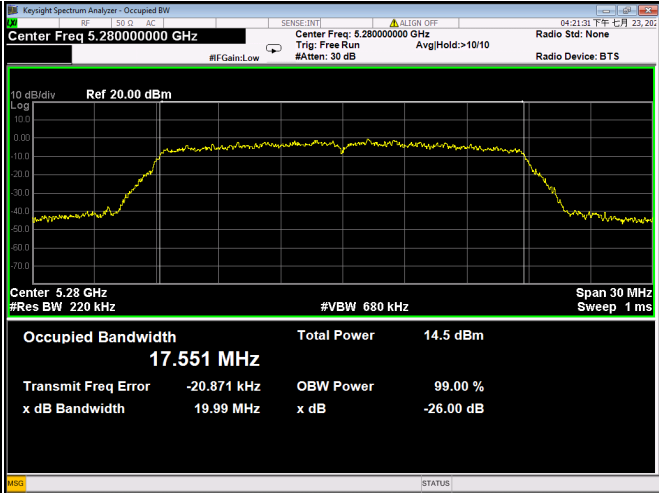
802.11n HT20 High channel



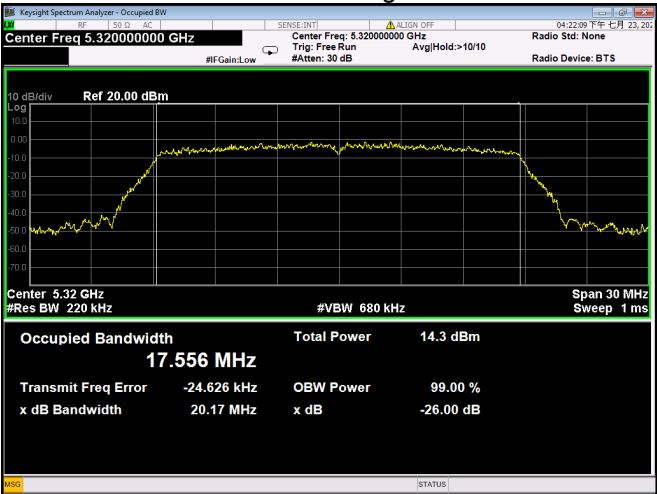
802.11ac VHT20 Low channel



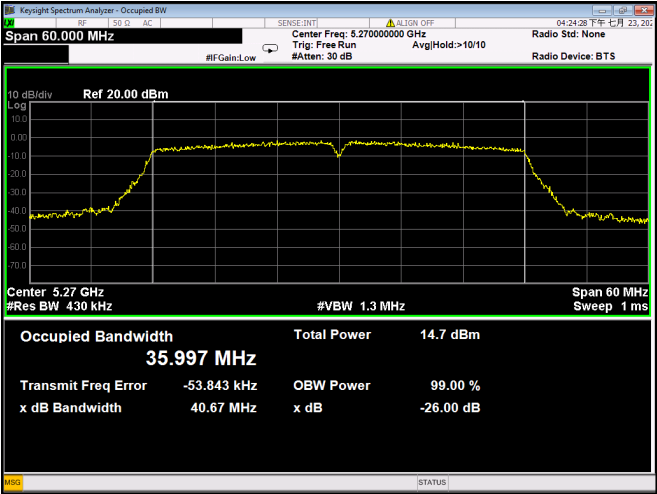
802.11ac VHT20 Middle channel



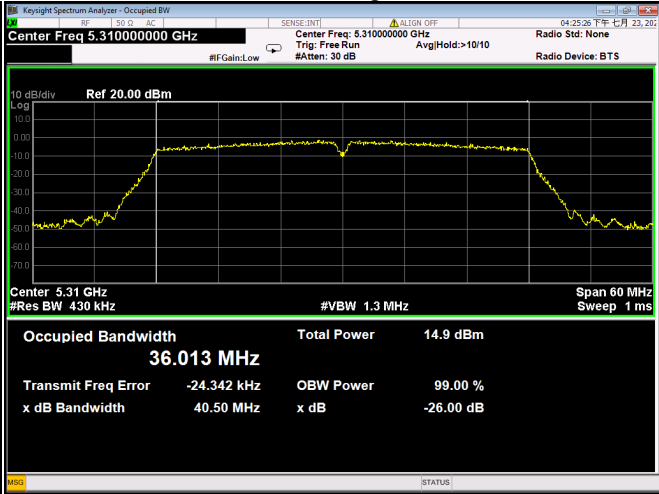
802.11ac VHT20 High channel



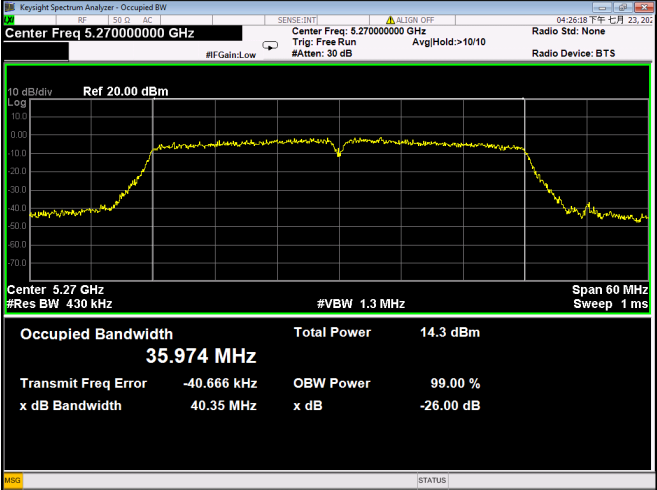
802.11n HT40 Low channel



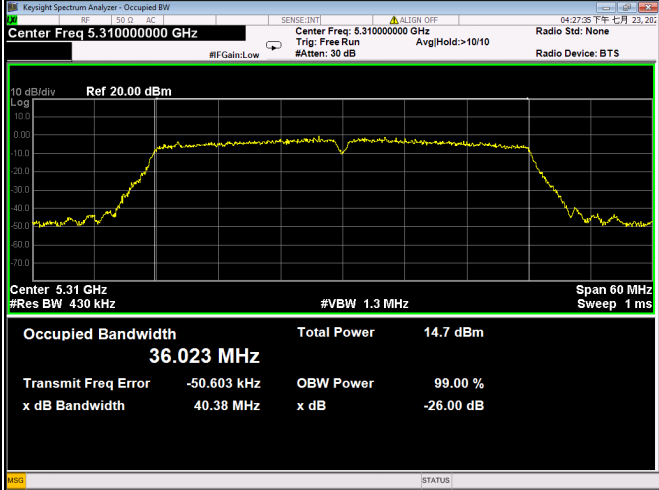
802.11n HT40 High channel



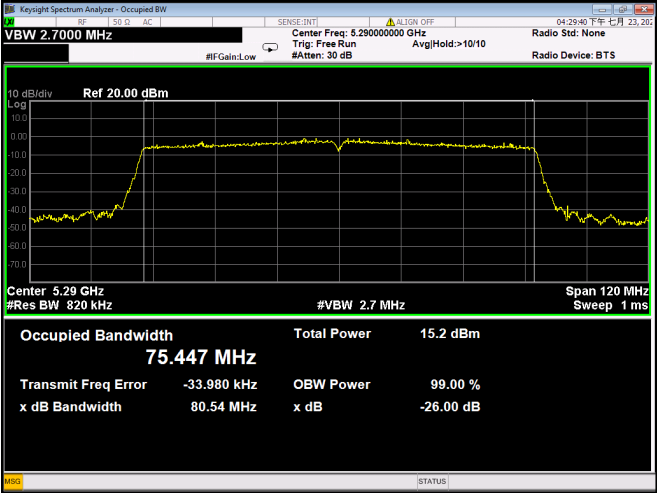
802.11ac VHT40 Low channel



802.11ac VHT40 High channel

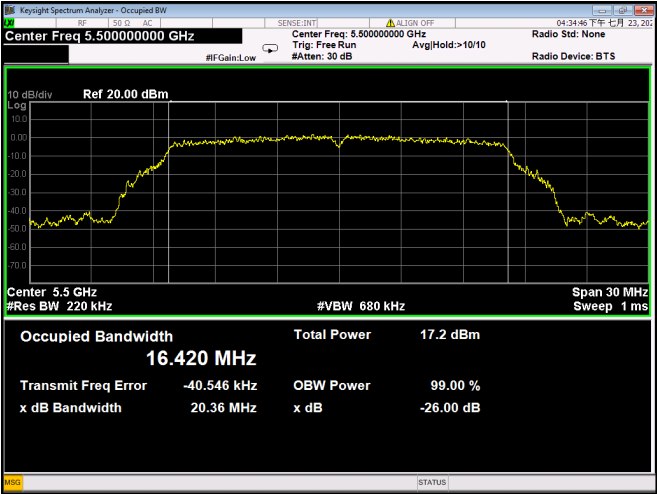


802.11ac VHT80 Middle channel

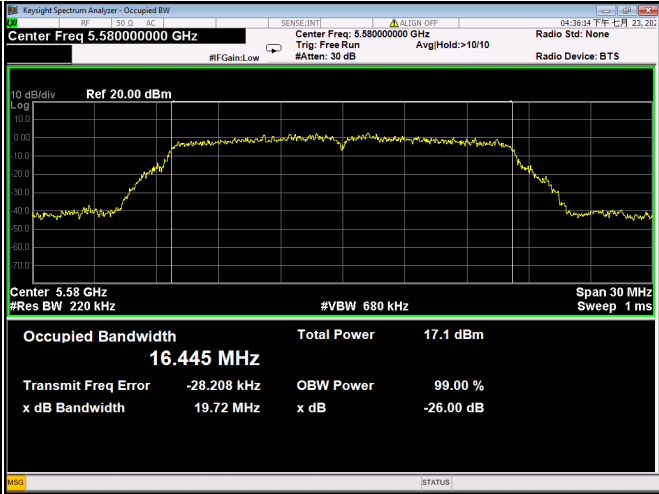


U-NII-2C

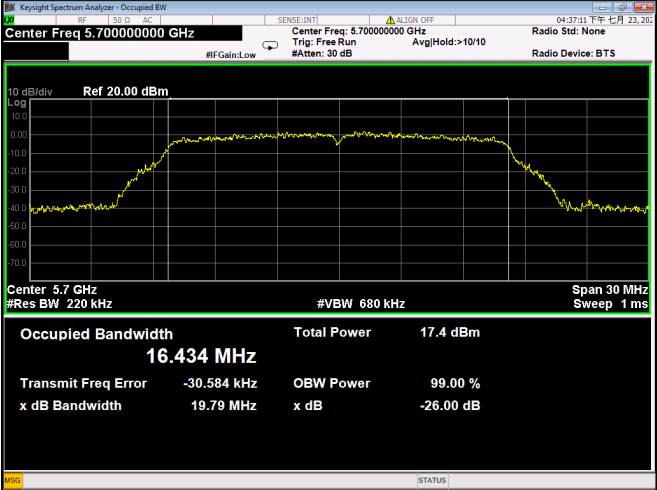
802.11a Low channel



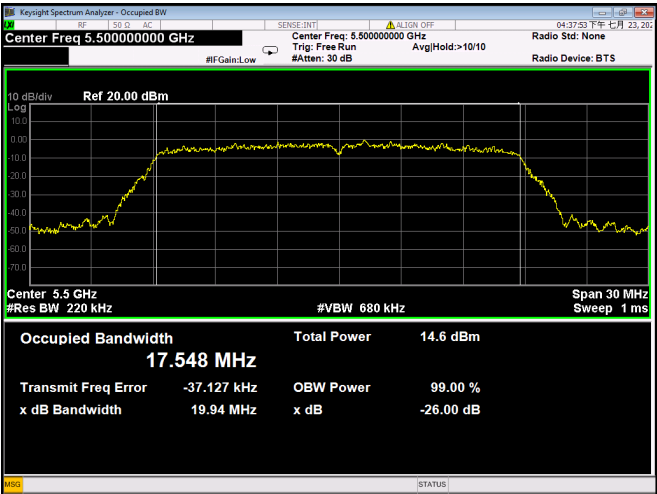
802.11a Middle channel



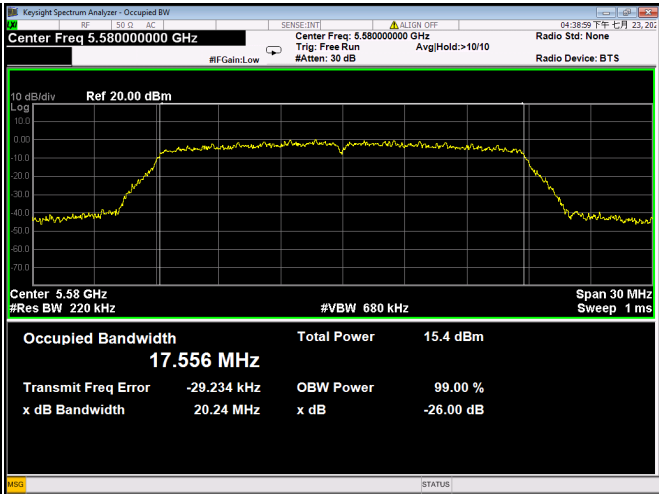
802.11a High channel



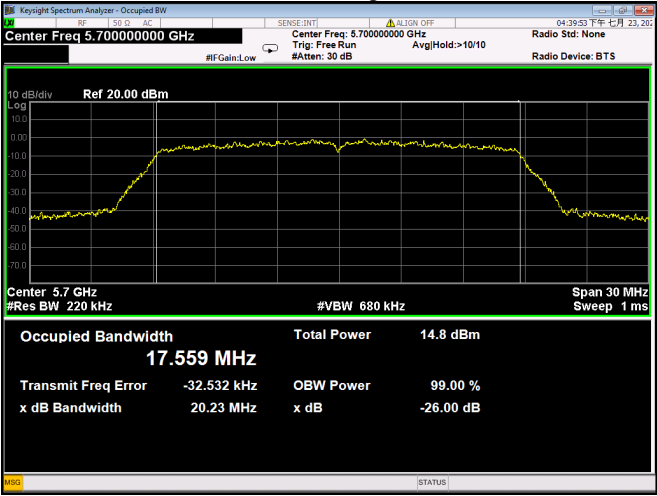
802.11n HT20 Low channel



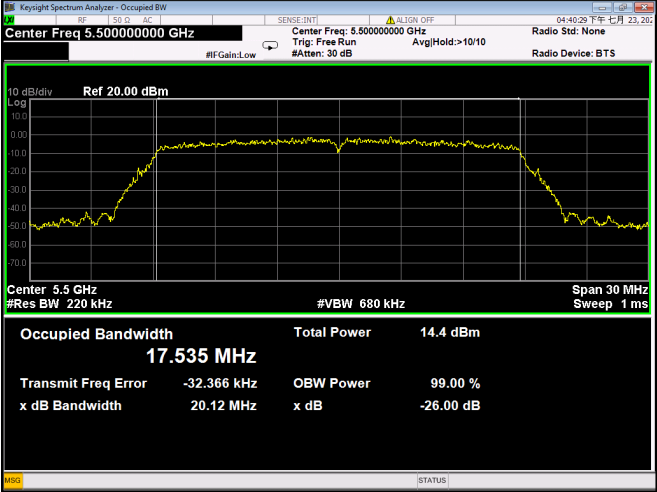
802.11n HT20 Middle channel



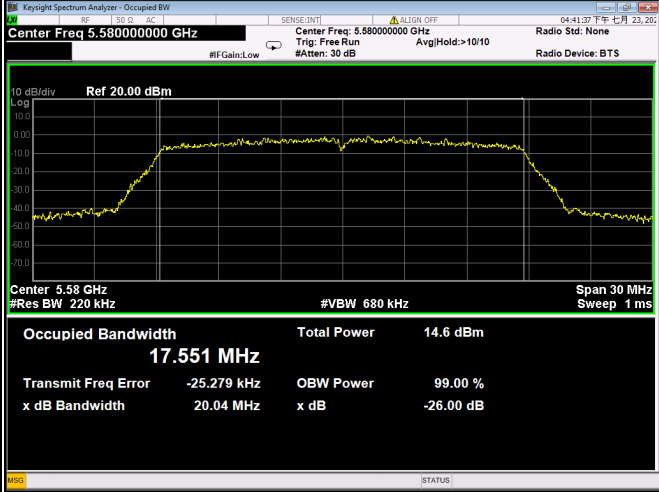
802.11n HT20 High channel



802.11ac VHT20 Low channel



802.11ac VHT20 Middle channel



802.11ac VHT20 High channel

