



RF TEST REPORT

Report No.: SET2021-16816

Product Name: Fixed Android UHF Reader

Model No. : URA4

FCC ID: 2AC6AURA4

Applicant: Shenzhen Chainway Information Technology Co., Ltd.

Address: 9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China.

Dates of Testing: 02/04/2021 - 12/14/2021

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China.

Tel: 86 755 26627338 **Fax:** 86 755 26627238

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Test Report

Product Name.....: Fixed Android UHF Reader

Brand Name.....: CHAINWAY

Trade Name.....: CHAINWAY

Applicant.....: Shenzhen Chainway Information Technology Co., Ltd.

Applicant Address.....: 9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China.

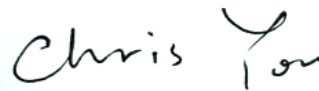
Manufacturer.....: Shenzhen Chainway Information Technology Co., Ltd.

Manufacturer Address.....: 9F Building 2, Daqian Industrial Park, District 67, XingDong Community, Xin'an Street, Bao'an District, Shenzhen, Guangdong, China.

Test Standards.....: 47 CFR Part 15 Subpart E 15.407
ANSI C63.10-2013

Test Result.....: PASS

Tested by:  2021.12.17
Sun, Test Engineer

Reviewed by:  2021.12.17
Chris You, Senior Engineer

Approved by:  2021.12.17
ShuangwenZhang, Manager

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Change History		
Issue	Date	Reason for change
1.0	2020.12.17	First edition

1. General Information

1.1. EUT Description

EUT Type	Fixed Android UHF Reader
Model No.	URA4
EUT supports Radios application	WLAN5.0GHz 802.11a/n (HT20/40)/ac(VHT20/40/80)
Product Type	Client devices
Modulation Type	256QAM, 64QAM,16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac mode only
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n : up to 150 Mbps 802.11ac: up to 433.33 Mbps
Frequency Range	Band UNII-1: 5150 ~ 5250MHz Band UNII-3: 5725 ~ 5850MHz
Channel Bandwidth	802.11a: 20MHz 802.11n: 20MHz/40MHz 802.11ac: 20MHz/40MHz/80MHz
Channel Number	Band UNII-1: 4 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 2 for 802.11n(HT40), 802.11ac(VHT40) 1 for 802.11ac(VHT80) Band UNII-3: 5 for 802.11a, 802.11n(HT20), 802.11ac(VHT20) 2 for 802.11n(HT40), 802.11ac(VHT40) 1 for 802.11ac(VHT80)
Antenna Type	External Antenna
Antenna Gain	1.01dBi
Output Power (Max.)	Band UNII-1: 13.43dBm Band UNII-3: 9.30dBm
Power supply	DC 12V from Adapter

1.2. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart E for the EUT FCC Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E § 15.407	Radio Frequency Devices
2	KDB789033 D02 General UNII Test Procedures New Rules v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Test detailed items/section required by FCC rules, and results are as below:

No.	FCC Rule	Description	Result
1	15.203	Antenna Requirement	PASS
2	15.407 (a)(1)(iv) 15.407 (a)(3)(i)	Maximum Conducted Output Power	PASS
3	15.407 (a)(12)	Emission Bandwidth(26 dB Bandwidth)	PASS
	15.407(e)	Emission Bandwidth(6 dB Bandwidth)	PASS
	-	Emission Bandwidth(99%)	PASS
4	15.407 (a)(1)(iv) 15.407 (a)(3)(i)	Power spectral density (PSD)	PASS
5	15.207	AC Power Line Conducted Emission	PASS
6	15.205 15.209 15.407(b)	Radiated Band Edges and Spurious Emission	PASS
7	15.407(g)	Frequency Stability	PASS

1.3. Channel List

Operated band in 5150 MHz ~ 5250MHz

4 channels are provided for 802.11a, 802.11n-HT20, and 802.11ac-VHT20

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel are provided for 802.11ac-VHT80

Channel	Frequency	Channel	Frequency
42	5210 MHz	/	/

Operated band in 5725 MHz ~ 5850MHz

5 channels are provided for 802.11a, 802.11n-HT20 and 802.11ac-VHT20

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz	/	/

2 channels are provided for 802.11n-HT40 and 802.11ac-VHT40

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel are provided for 802.11ac-VHT80

Channel	Frequency	Channel	Frequency
155	5775 MHz	/	/

1.4. Test environment and mode

Operating Environment	
Temperature	24°C
Humidity	57 % RH
Atmospheric Pressure	1010 mbar
Test mode:	
Continuously transmitting mode	Keeps the EUT in 100% duty cycle transmitting with modulation in SISO, duty cycle factor is not required.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

For Frequency band 5150 ~ 5250 MHz			
Mode	Modulation scheme / bandwidth		
	5180 MHz	5220 MHz	5240 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n/ac – HT20	MCS 0	MCS 0	MCS 0
Frequency	5190 MHz		5230 MHz
802.11n/ac – HT40	MCS 0		MCS 0
Frequency	5210 MHz		
802.11ac – VHT80	MCS 0		

For Frequency band 5725 ~ 5850 MHz			
Mode	Modulation scheme / bandwidth		
	5745 MHz	5785 MHz	5825 MHz
802.11a	6 Mbps	6 Mbps	6 Mbps
802.11n/ac – HT20	MCS 0	MCS 0	MCS 0
Frequency	5755 MHz		5795 MHz
802.11n/ac – HT40	MCS 0		MCS 0
Frequency	5775 MHz		
802.11ac – VHT80	MCS 0		

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation modes or test configuration modes mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	TX A Mode / CH36, CH44, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151, CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151, CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)
Mode 13	TX Mode

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test	
Final Test Mode	Description
Mode 13	TX Mode

For Radiated Test	
Final Test Mode	Description
Mode 1	TX A Mode / CH36, CH44, CH48 (UNII-1)
Mode 2	TX N20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 3	TX N40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 5	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 6	TX AC80 Mode / CH42 (UNII-1)
Mode 7	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 8	TX N20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 9	TX N40 Mode / CH151, CH159 (UNII-3)
Mode 10	TX AC20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 11	TX AC40 Mode / CH151, CH159 (UNII-3)
Mode 12	TX AC80 Mode / CH155 (UNII-3)

1.5. Power level setup in software

Power level setup in software for 5G wifi			
UNII-1			
Frequency (MHz)	5180	5220	5240
A mode	20	20	20
Frequency (MHz)	5180	5220	5240
N20 mode	20	20	20
Frequency (MHz)	5190	5230	\
N40 mode	20	20	\
Frequency (MHz)	5180	5220	5240
AC20 mode	20	20	20
Frequency (MHz)	5190	5230	\
AC40 mode	20	20	\
Frequency (MHz)	5210	\	\
AC80 mode	20	\	\

Power level setup in software for 5G wifi			
UNII-3			
Frequency (MHz)	5745	5785	5825
A mode	20	20	20
Frequency (MHz)	5745	5785	5825
N20 mode	20	20	20
Frequency (MHz)	5755	5795	\
N40 mode	20	20	\
Frequency (MHz)	5745	5785	5825
AC20 mode	20	20	20
Frequency (MHz)	5755	5795	\
AC40 mode	20	20	\
Frequency (MHz)	5775	\	\
AC80 mode	20		

1.6. Laboratory Facilities

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) 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. Designation Number: CN5031, valid time is until December 31, 2020.

ISED Registration: 11185A-1

CAB identifier:CN0064

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Dec. 31, 2020.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.

2. 47 CFR Part 15E Requirements

2.1. Antenna requirement

2.1.1. Applicable Standard

According to FCC 15.203, 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.

And according to FCC 47 CFR Section 15.407(E), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

2.1.2. Antenna Information

Antenna General Information:

No.	EUT	Ant. Type	Operating frequency range	Ant. Gain
1	Fixed Android UHF Reader	External	UNII-1, UNII-3	1.01dBi

2.1.3. Result: comply

The EUT has a unique antenna connector (reverse SMA connector). Please refer to the EUT internal photos.

2.2. Output Power

2.2.1. Limit of Output Power

FCC 15.407(a)

The maximum conducted output power should not exceed:

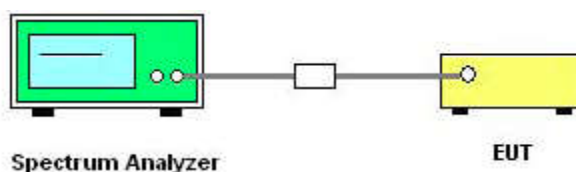
Band	EUT Category	Limit
U-NII-1	☐ Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	☐ Fixed point-to-point Access device	1 Watt (30 dBm)
	☐ Indoor Access Point	1 Watt (30 dBm)
	☒ Mobile and portable client device	250mW (24 dBm)
U-NII-2A	☐	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-2C	☐	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-3	☒	1 Watt (30 dBm)

Note: B* is the 26 dB emission bandwidth in MHz.

2.2.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.2.3. Test Setup



2.2.4. Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02 Method SA-1
2. The RF output of EUT was connected to spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW=1MHz, VBW=3MHz, Sweep time=Auto, Detector=average (RMS), Compute power by integrating the spectrum across the 99%OBW.
5. Measure the conducted output power and record the results in the test report.

2.2.5. Test Result

Please refer to APPENDIX A for detail

2.3. Emission Bandwidth

2.3.1. Limit of Bandwidth

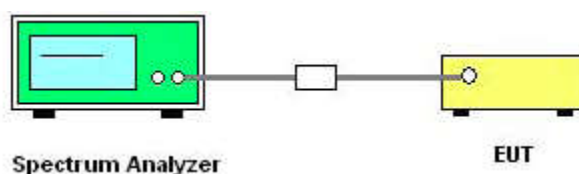
There is no limit bandwidth for bandU-NII-1.

The minimum of 6dB bandwidth measurement is 0.5 MHz for U-NII-3.

2.3.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.3.3. Test Setup



2.3.4. Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. For 26dB bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = approximately 1%EBW, VBW $\geq$ 3RBW , Detector = Peak, Trace mode = max hold
Span > 26 dB bandwidth and Sweep time = auto
5. Use the spectrum analyzer N dB down function to find the 26dB bandwidth.
6. For 6 Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 100kHz
VBW = 300 kHz, Detector = Peak, Trace mode = max hold
7. Use the spectrum analyzer N dB down and 99%OBW function to find the 6dB and 99% bandwidth
8. Measure and record the worst results in the test report.



2.3.5. Test Results Bandwidth

Please refer to APPENDIX A for detail

2.4. Power spectral density (PSD)

2.4.1. Limit of Power Spectral Density

FCC 15.407(a)

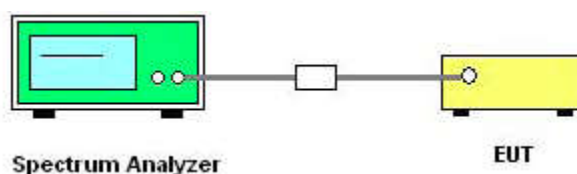
The maximum power spectral density should not exceed:

Band	EUT Category	Limit
U-NII-1	☐ Access Point (Master device)	17 dBm/MHz
	☐ Fixed point-to-point Access device	
	☒ Mobile and portable client device	11 dBm/MHz
U-NII-2A	☐	11 dBm/MHz
U-NII-2C	☐	11 dBm/MHz
U-NII-3	☒	30dBm/500kHz

2.4.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3. Test Setup



2.4.4. Test Procedures

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.

4. For U-NII-1, U-NII-2A Band:

Using method SA-1

Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = sample, traces 100 sweeps of averaging mode.

For U-NII-3 Band:

Set RBW=500 kHz, $VBW \geq 3RBW$, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = sample, traces 100 sweeps of averaging mode.

5. Use peak search function on the instrument to find the peak of the spectrum and record its value
6. Repeat above procedures until all default test channel (low, middle, and high) was complete.

2.4.5. Test Results of Power spectral density

Please refer to APPENDIX A for detail

2.5. Frequency Stability

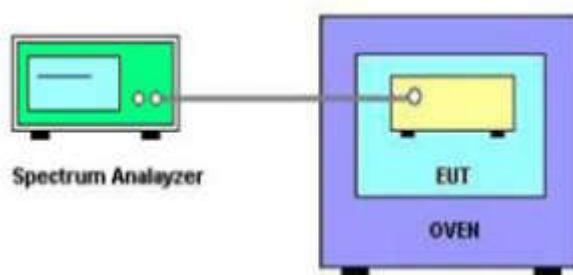
2.5.1. Limit

FCC 15.407(b) Frequency Stability	
Frequency Band(MHz)	Limit
5150~5250	Specified in the user's manual
5725~5850	

2.5.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.5.3. Test Setup



2.5.4. Test Procedures

1. The EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. The EUT is installed in an environment test chamber with external power source.
4. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.
5. A sufficient stabilization period at each temperatures in used prior to each frequency measurement.
6. The test shall be performed under -25to 65 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
7. Measure and record the worst results in the test report.

2.5.5. Test Results of Frequency Stability

Please refer to APPENDIX A for detail

2.6. Radiated Band Edge and Spurious Emission

2.6.1. Limit of Radiated Band Edges and Spurious Emission

Radiated emission which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level ($\mu\text{V/m}$).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Applicable To	Limit	
789033 D02 General UNII Test Procedures New Rules v01	Field Strength at 3m	
	PK:74(dB $\mu\text{V/m}$)	AV:54 (dB $\mu\text{V/m}$)

Frequency Band (MHz)	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (3m) (dB $\mu\text{V/m}$)
5150 - 5250	Outside of the 5.15~5.35 GHz	-27	68.2

FCC 15.407			
Frequency Band (MHz)	Frequency (MHz)	EIRP Limit (dBm)	Equivalent Field Strength (3m) (dBμV/m)
5725 - 5850	<5650	-27	68.2
	5650~5700	-27~10	68.2~105.2
	5700~5720	10~15.6	105.2~110.8
	5720~5725	15.6~27	110.8~122.2
	5850~5855	27~15.6	122.2~110.8
	5855~5875	15.6~10	110.8~105.2
	5875~5925	10~-27	105.2~68.2
	>5925	-27	68.2

Note: 1. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

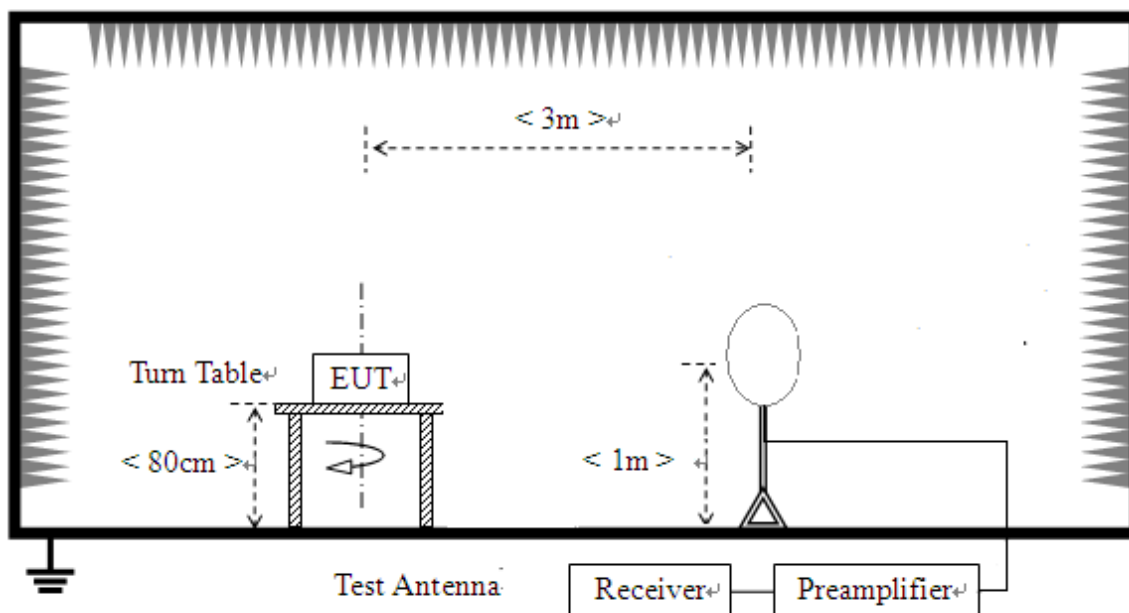
$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

2.6.2. Measuring Instruments

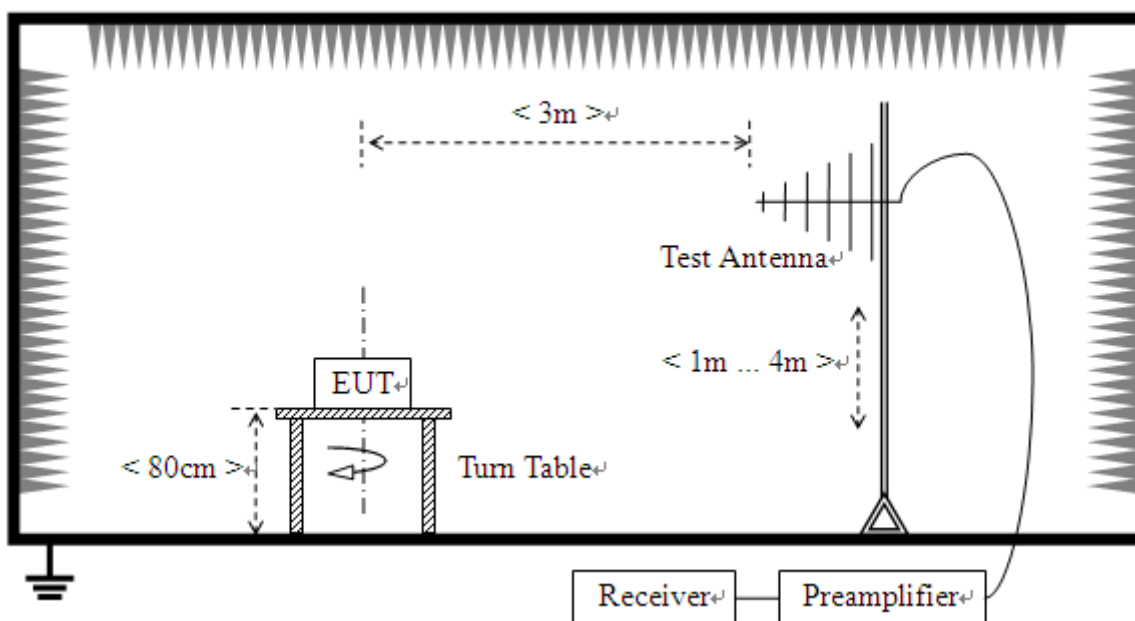
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

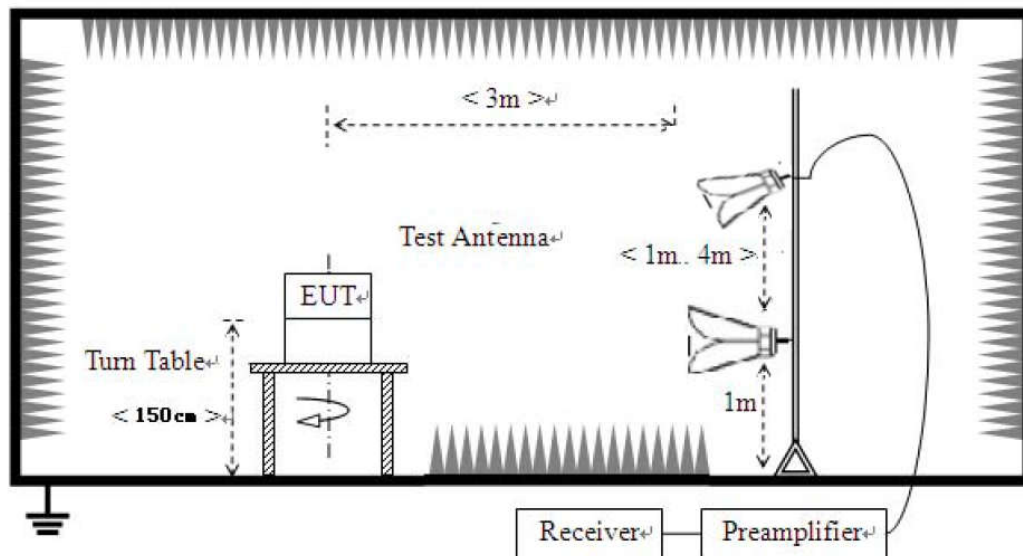
For radiated emissions from 9 KHz to 30 MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.6.4. Test Procedures

1. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
6. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

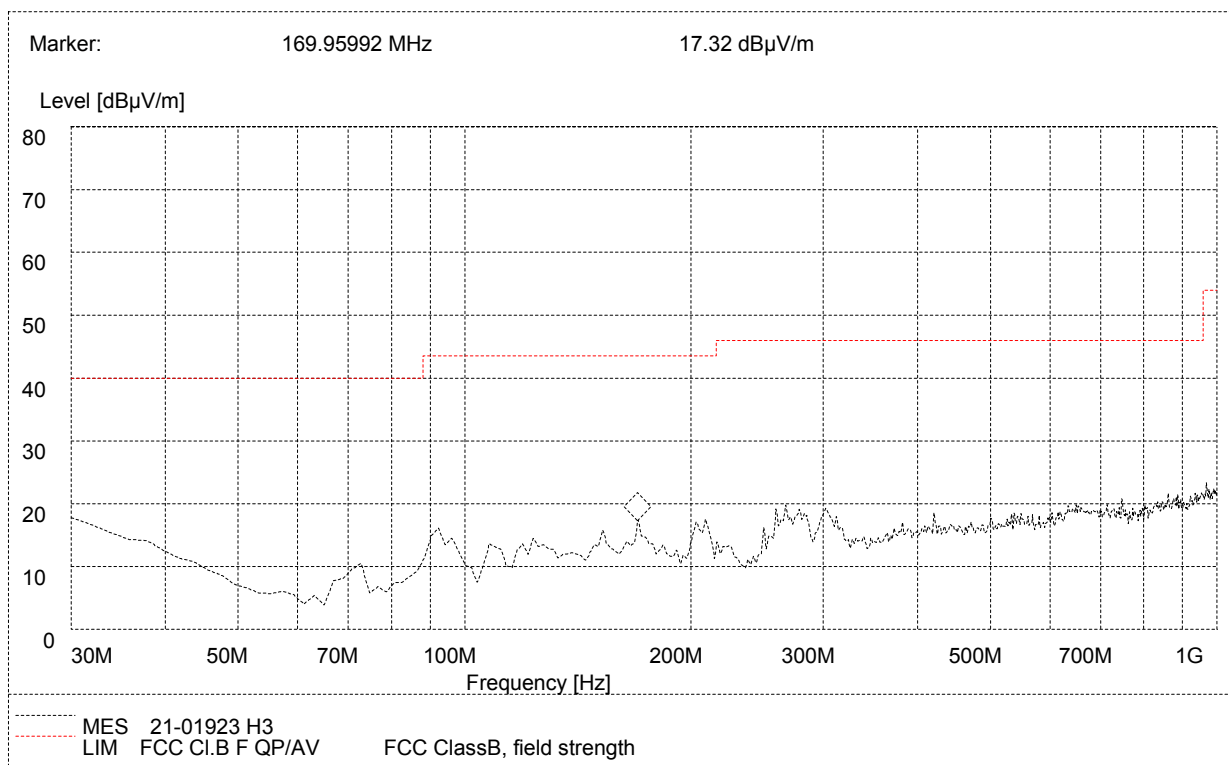
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
5. Only provide worst-Case mode data provide here, 802.11a (20MHz) 5180MHz for Below 1GHz .

2.6.5. Test Results of Radiated Band Edge and Spurious Emission

For 9 KHz to 30MHz

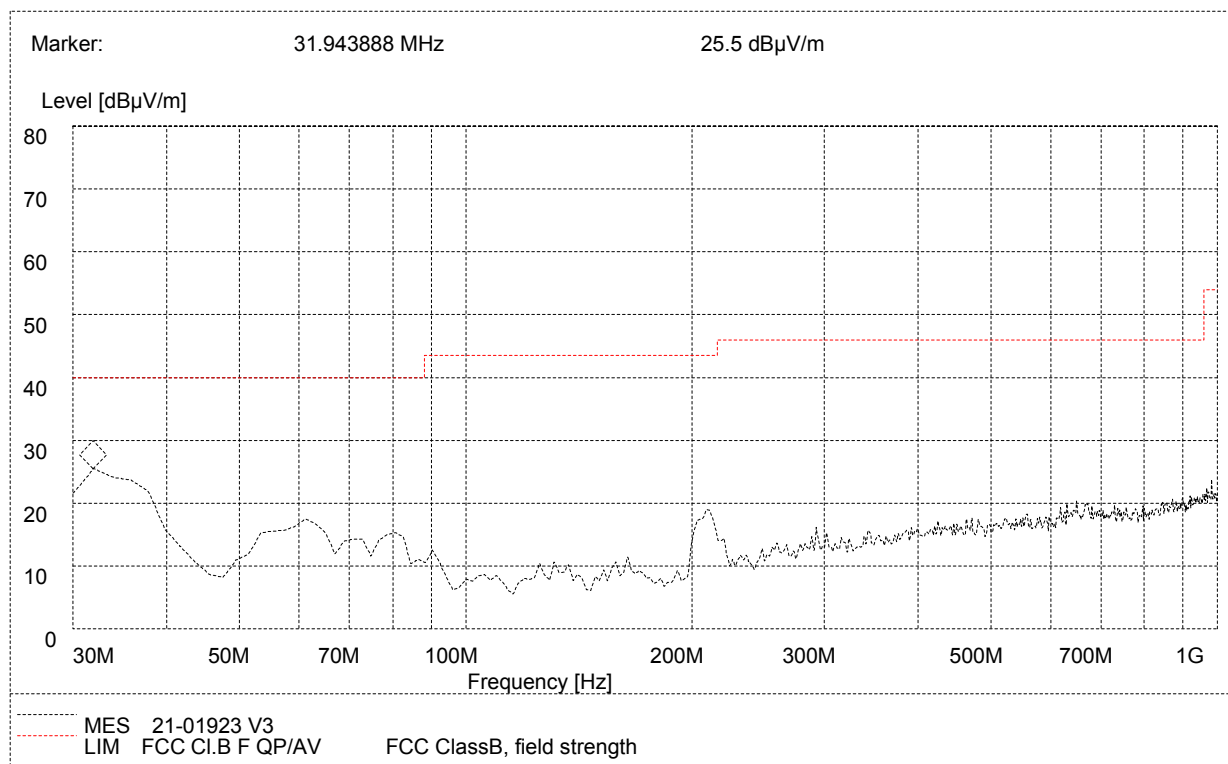
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dBμV/m)	Bandwidth (kHz)	Corr. Factor (dB/m)	Antenna height (cm)	Limit (dBμV/m)	Margin	Antenna	Verdict
30.000000	17.85	120.000	19.30	100.0	40.0	22.15	Horizontal	Pass
72.020000	10.05	120.000	6.80	100.0	40.0	29.95	Horizontal	Pass
92.200000	16.11	120.000	9.90	100.0	43.5	27.39	Horizontal	Pass
107.700000	12.29	120.000	11.80	100.0	43.5	31.21	Horizontal	Pass
152.280000	14.95	120.000	12.40	100.0	43.5	28.55	Horizontal	Pass
169.290000	17.02	120.000	12.90	100.0	43.5	26.48	Horizontal	Pass



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Corr. Factor (dB μ V/m)	Antenna height (cm)	Limit (dB μ V/m)	Margin	Antenna	Verdict
30.000000	24.90	120.000	19.30	100.0	40.0	15.10	Vertical	Pass
61.080000	17.20	120.000	6.10	100.0	40.0	22.80	Vertical	Pass
80.520000	15.30	120.000	8.50	100.0	40.0	24.70	Vertical	Pass
131.020000	10.50	120.000	12.60	100.0	43.5	33.00	Vertical	Pass
164.130000	11.38	120.000	12.50	100.0	43.5	32.12	Vertical	Pass
208.280000	18.92	120.000	12.20	100.0	46.0	27.08	Vertical	Pass

For 1GHz to 40 GHz

U-NII-1_802.11a_5180MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	52.45	68.20	-15.75	1.70	140	44.95	7.50	Horizontal	Peak
5150.00	40.69	54.00	-13.31	1.70	140	33.19	7.50	Horizontal	Average
10360.00	54.33	68.20	-13.87	1.70	140	34.53	19.80	Horizontal	Peak
10360.00	42.59	54.00	-11.41	1.70	140	22.79	19.80	Horizontal	Average
5150.00	52.12	68.20	-16.08	1.50	230	44.62	7.50	Vertical	Peak
5150.00	40.05	54.00	-13.95	1.50	230	32.55	7.50	Vertical	Average
10360.00	52.94	68.20	-15.26	1.50	230	33.14	19.80	Vertical	Peak
10360.00	42.70	54.00	-11.30	1.50	230	22.90	19.80	Vertical	Average
U-NII-1_802.11a_5220MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	54.78	68.20	-13.42	1.60	200	34.88	19.90	Horizontal	Peak
10440.00	42.67	54.00	-11.33	1.60	200	22.77	19.90	Horizontal	Average
10440.00	53.45	68.20	-14.75	1.70	180	33.55	19.90	Vertical	Peak
10440.00	42.84	54.00	-11.16	1.70	180	22.94	19.90	Vertical	Average
U-NII-1_802.11a_5240MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	52.74	68.20	-15.46	1.70	140	44.74	8.00	Horizontal	Peak
5350.00	41.61	54.00	-12.39	1.70	140	33.61	8.00	Horizontal	Average
10480.00	54.85	68.20	-13.35	1.70	140	34.95	19.90	Horizontal	Peak
10480.00	42.64	54.00	-11.36	1.70	140	22.74	19.90	Horizontal	Average
5350.00	52.48	68.20	-15.72	1.50	230	44.48	8.00	Vertical	Peak
5350.00	41.20	54.00	-12.80	1.50	230	33.20	8.00	Vertical	Average
10480.00	53.04	68.20	-15.16	1.50	230	33.14	19.90	Vertical	Peak
10480.00	42.69	54.00	-11.31	1.50	230	22.79	19.90	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-1_802.11n-HT20_5180MHz

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	52.82	68.20	-15.38	1.70	140	45.32	7.50	Horizontal	Peak
5150.00	41.08	54.00	-12.92	1.70	140	33.58	7.50	Horizontal	Average
10360.00	54.59	68.20	-13.61	1.70	140	34.79	19.80	Horizontal	Peak
10360.00	42.84	54.00	-11.16	1.70	140	23.04	19.80	Horizontal	Average
5150.00	52.27	68.20	-15.93	1.50	230	44.77	7.50	Vertical	Peak
5150.00	40.13	54.00	-13.87	1.50	230	32.63	7.50	Vertical	Average
10360.00	52.68	68.20	-15.52	1.50	230	32.88	19.80	Vertical	Peak
10360.00	42.73	54.00	-11.27	1.50	230	22.93	19.80	Vertical	Average

U-NII-1_802.11n-HT20_5220MHz

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	54.84	68.20	-13.36	1.70	140	34.94	19.90	Horizontal	Peak
10440.00	42.24	54.00	-11.76	1.70	140	22.34	19.90	Horizontal	Average
10440.00	53.62	68.20	-14.58	1.50	230	33.72	19.90	Vertical	Peak
10440.00	42.50	54.00	-11.50	1.50	230	22.60	19.90	Vertical	Average

U-NII-1_802.11n-HT20_5240MHz

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	53.13	68.20	-15.07	1.70	140	45.13	8.00	Horizontal	Peak
5350.00	41.96	54.00	-12.04	1.70	140	33.96	8.00	Horizontal	Average
10480.00	54.41	68.20	-13.79	1.70	140	34.51	19.90	Horizontal	Peak
10480.00	42.66	54.00	-11.34	1.70	140	22.76	19.90	Horizontal	Average
5350.00	51.99	68.20	-16.21	1.50	230	43.99	8.00	Vertical	Peak
5350.00	41.61	54.00	-12.39	1.50	230	33.61	8.00	Vertical	Average
10480.00	53.45	68.20	-14.75	1.50	230	33.55	19.90	Vertical	Peak
10480.00	42.36	54.00	-11.64	1.50	230	22.46	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

**U-NII-1_802.11ac-VHT_5180MHz**

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	52.51	68.20	-15.69	1.70	140	45.01	7.50	Horizontal	Peak
5150.00	41.19	54.00	-12.81	1.70	140	33.69	7.50	Horizontal	Average
10360.00	54.52	68.20	-13.68	1.70	140	34.72	19.80	Horizontal	Peak
10360.00	43.25	54.00	-10.75	1.70	140	23.45	19.80	Horizontal	Average
5150.00	52.27	68.20	-15.93	1.50	230	44.77	7.50	Vertical	Peak
5150.00	40.50	54.00	-13.50	1.50	230	33.00	7.50	Vertical	Average
10360.00	53.09	68.20	-15.11	1.50	230	33.29	19.80	Vertical	Peak
10360.00	42.85	54.00	-11.15	1.50	230	23.05	19.80	Vertical	Average

U-NII-1_802.11ac-VHT_5220MHz

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
10440.00	55.26	68.20	-12.94	1.70	140	35.36	19.90	Horizontal	Peak
10440.00	42.57	54.00	-11.43	1.70	140	22.67	19.90	Horizontal	Average
10440.00	53.61	68.20	-14.59	1.50	230	33.71	19.90	Vertical	Peak
10440.00	42.78	54.00	-11.22	1.50	230	22.88	19.90	Vertical	Average

U-NII-1_802.11ac-VHT_5240MHz

Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	53.15	68.20	-15.05	1.70	140	45.15	8.00	Horizontal	Peak
5350.00	42.17	54.00	-11.83	1.70	140	34.17	8.00	Horizontal	Average
10480.00	54.34	68.20	-13.86	1.70	140	34.44	19.90	Horizontal	Peak
10480.00	42.34	54.00	-11.66	1.70	140	22.44	19.90	Horizontal	Average
5350.00	52.16	68.20	-16.04	1.50	230	44.16	8.00	Vertical	Peak
5350.00	41.54	54.00	-12.46	1.50	230	33.54	8.00	Vertical	Average
10480.00	52.82	68.20	-15.38	1.50	230	32.92	19.90	Vertical	Peak
10480.00	41.82	54.00	-12.18	1.50	230	21.92	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

U-NII-1_802.11n-HT40_5190MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	52.48	68.20	-15.72	1.70	140	44.98	7.50	Horizontal	Peak
5150.00	40.58	54.00	-13.42	1.70	140	33.08	7.50	Horizontal	Average
10380.00	54.74	68.20	-13.46	1.70	140	34.94	19.80	Horizontal	Peak
10380.00	42.91	54.00	-11.09	1.70	140	23.11	19.80	Horizontal	Average
5150.00	52.28	68.20	-15.92	1.50	230	44.78	7.50	Vertical	Peak
5150.00	40.49	54.00	-13.51	1.50	230	32.99	7.50	Vertical	Average
10380.00	53.84	68.20	-14.36	1.50	230	34.04	19.80	Vertical	Peak
10380.00	42.81	54.00	-11.19	1.50	230	23.01	19.80	Vertical	Average
U-NII-1_802.11n-HT40_5230MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	53.08	68.20	-15.12	1.70	140	45.08	8.00	Horizontal	Peak
5350.00	41.97	54.00	-12.03	1.70	140	33.97	8.00	Horizontal	Average
10460.00	54.11	68.20	-14.09	1.70	140	34.21	19.90	Horizontal	Peak
10460.00	42.17	54.00	-11.83	1.70	140	22.27	19.90	Horizontal	Average
5350.00	51.66	68.20	-16.54	1.50	230	43.66	8.00	Vertical	Peak
5350.00	41.81	54.00	-12.19	1.50	230	33.81	8.00	Vertical	Average
10460.00	53.33	68.20	-14.87	1.50	230	33.43	19.90	Vertical	Peak
10460.00	42.08	54.00	-11.92	1.50	230	22.18	19.90	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-1_802.11ac-VHT40_5190MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	56.07	68.20	-12.13	1.60	90	48.57	7.50	Horizontal	Peak
5150.00	46.96	54.00	-7.04	1.60	90	39.46	7.50	Horizontal	Average
10380.00	51.13	68.20	-17.07	1.60	90	31.33	19.80	Horizontal	Peak
10380.00	39.67	54.00	-14.33	1.60	90	19.87	19.80	Horizontal	Average
5150.00	52.19	68.20	-16.01	1.50	120	44.69	7.50	Vertical	Peak
5150.00	40.65	54.00	-13.35	1.50	120	33.15	7.50	Vertical	Average
10380.00	51.08	68.20	-17.12	1.50	120	31.28	19.80	Vertical	Peak
10380.00	41.42	54.00	-12.58	1.50	120	21.62	19.80	Vertical	Average
U-NII-1_802.11ac-VHT40_5230MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5350.00	50.24	68.20	-17.96	1.60	90	42.24	8.00	Horizontal	Peak
5350.00	40.25	54.00	-13.75	1.60	90	32.25	8.00	Horizontal	Average
10460.00	55.29	68.20	-12.91	1.60	90	35.39	19.90	Horizontal	Peak
10460.00	44.73	54.00	-9.27	1.60	90	24.83	19.90	Horizontal	Average
5350.00	51.23	68.20	-16.97	1.50	120	43.23	8.00	Vertical	Peak
5350.00	40.53	54.00	-13.47	1.50	120	32.53	8.00	Vertical	Average
10460.00	52.14	68.20	-16.06	1.50	120	32.24	19.90	Vertical	Peak
10460.00	41.00	54.00	-13.00	1.50	120	21.10	19.90	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

**U-NII-1_802.11ac-VHT80_5210MHz**

Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5150.00	52.22	68.20	-15.98	1.70	140	44.72	7.50	Horizontal	Peak
5150.00	41.56	54.00	-12.44	1.70	140	34.06	7.50	Horizontal	Average
5350.00	52.41	68.20	-15.79	1.70	140	44.41	8.00	Horizontal	Peak
5350.00	41.20	54.00	-12.80	1.70	140	33.20	8.00	Horizontal	Average
10420.00	53.41	68.20	-14.79	1.70	140	33.51	19.90	Horizontal	Peak
10420.00	41.95	54.00	-12.05	1.70	140	22.05	19.90	Horizontal	Average
5150.00	52.68	68.20	-15.52	1.50	230	45.18	7.50	Vertical	Peak
5150.00	41.52	54.00	-12.48	1.50	230	34.02	7.50	Vertical	Average
5350.00	52.47	68.20	-15.73	1.50	230	44.47	8.00	Vertical	Peak
5350.00	41.36	54.00	-12.64	1.50	230	33.36	8.00	Vertical	Average
10420.00	52.52	68.20	-15.68	1.50	230	32.62	19.90	Vertical	Peak
10420.00	41.61	54.00	-12.39	1.50	230	21.71	19.90	Vertical	Average

Remark:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



U-NII-3_802.11a_5745MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	53.24	68.20	-14.96	1.70	140	43.78	9.46	Horizontal	Peak
5700.00	53.41	105.20	-51.79	1.70	140	43.82	9.59	Horizontal	Peak
5720.00	54.03	110.80	-56.77	1.70	140	44.39	9.64	Horizontal	Peak
5725.00	54.31	122.20	-67.89	1.70	140	44.66	9.65	Horizontal	Peak
11490.00	54.00	68.20	-14.20	1.70	140	32.30	21.70	Horizontal	Peak
11490.00	43.10	54.00	-10.90	1.70	140	21.40	21.70	Horizontal	Average
5650.00	53.15	68.20	-15.05	1.50	230	43.69	9.46	Vertical	Peak
5700.00	53.27	105.20	-51.93	1.50	230	43.68	9.59	Vertical	Peak
5720.00	54.12	110.80	-56.68	1.50	230	44.48	9.64	Vertical	Peak
5725.00	54.27	122.20	-67.93	1.50	230	44.62	9.65	Vertical	Peak
11490.00	55.37	68.20	-12.83	1.50	230	33.67	21.70	Vertical	Peak
11490.00	43.16	54.00	-10.84	1.50	230	21.46	21.70	Vertical	Average
U-NII-3_802.11a_5825MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	53.43	122.20	-68.77	1.70	140	43.65	9.78	Horizontal	Peak
5855.00	53.95	110.80	-56.85	1.70	140	44.16	9.79	Horizontal	Peak
5875.00	53.28	105.20	-51.92	1.70	140	43.44	9.84	Horizontal	Peak
5925.00	54.42	68.20	-13.78	1.70	140	44.45	9.97	Horizontal	Peak
11650.00	54.61	68.20	-13.59	1.70	140	32.71	21.90	Horizontal	Peak
11650.00	43.30	54.00	-10.70	1.70	140	21.40	21.90	Horizontal	Average
5850.00	53.03	122.20	-69.17	1.50	230	43.25	9.78	Vertical	Peak
5855.00	53.51	110.80	-57.29	1.50	230	43.72	9.79	Vertical	Peak
5875.00	54.89	105.20	-50.31	1.50	230	45.05	9.84	Vertical	Peak
5925.00	54.26	68.20	-13.94	1.50	230	44.29	9.97	Vertical	Peak
11650.00	55.21	68.20	-12.99	1.50	230	33.31	21.90	Vertical	Peak
11650.00	42.59	54.00	-11.41	1.50	230	20.69	21.90	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-3_802.11n-HT20_5745MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	53.59	68.20	-14.61	1.70	140	44.13	9.46	Horizontal	Peak
5700.00	53.40	105.20	-51.80	1.70	140	43.81	9.59	Horizontal	Peak
5720.00	53.94	110.80	-56.86	1.70	140	44.30	9.64	Horizontal	Peak
5725.00	54.52	122.20	-67.68	1.70	140	44.87	9.65	Horizontal	Peak
11490.00	53.93	68.20	-14.27	1.70	140	32.23	21.70	Horizontal	Peak
11490.00	42.99	54.00	-11.01	1.70	140	21.29	21.70	Horizontal	Average
5650.00	53.23	68.20	-14.97	1.50	230	43.77	9.46	Vertical	Peak
5700.00	53.45	105.20	-51.75	1.50	230	43.86	9.59	Vertical	Peak
5720.00	54.38	110.80	-56.42	1.50	230	44.74	9.64	Vertical	Peak
5725.00	54.16	122.20	-68.04	1.50	230	44.51	9.65	Vertical	Peak
11490.00	55.42	68.20	-12.78	1.50	230	33.72	21.70	Vertical	Peak
11490.00	42.86	54.00	-11.14	1.50	230	21.16	21.70	Vertical	Average
U-NII-3_802.11n-HT20_5825MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	53.39	122.20	-68.81	1.70	140	43.61	9.78	Horizontal	Peak
5855.00	53.53	110.80	-57.27	1.70	140	43.74	9.79	Horizontal	Peak
5875.00	53.16	105.20	-52.04	1.70	140	43.32	9.84	Horizontal	Peak
5925.00	54.54	68.20	-13.66	1.70	140	44.57	9.97	Horizontal	Peak
11650.00	54.38	68.20	-13.82	1.70	140	32.48	21.90	Horizontal	Peak
11650.00	43.02	54.00	-10.98	1.70	140	21.12	21.90	Horizontal	Average
5850.00	52.80	122.20	-69.40	1.50	230	43.02	9.78	Vertical	Peak
5855.00	53.47	110.80	-57.33	1.50	230	43.68	9.79	Vertical	Peak
5875.00	54.67	105.20	-50.53	1.50	230	44.83	9.84	Vertical	Peak
5925.00	54.03	68.20	-14.17	1.50	230	44.06	9.97	Vertical	Peak
11650.00	55.31	68.20	-12.89	1.50	230	33.41	21.90	Vertical	Peak
11650.00	42.59	54.00	-11.41	1.50	230	20.69	21.90	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-3_802.11ac-VHT20_5745MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	53.11	68.20	-15.09	1.70	140	43.65	9.46	Horizontal	Peak
5700.00	53.77	105.20	-51.43	1.70	140	44.18	9.59	Horizontal	Peak
5720.00	53.66	110.80	-57.14	1.70	140	44.02	9.64	Horizontal	Peak
5725.00	54.80	122.20	-67.40	1.70	140	45.15	9.65	Horizontal	Peak
11490.00	53.59	68.20	-14.61	1.70	140	31.89	21.70	Horizontal	Peak
11490.00	42.90	54.00	-11.10	1.70	140	21.20	21.70	Horizontal	Average
5650.00	52.97	68.20	-15.23	1.50	230	43.51	9.46	Vertical	Peak
5700.00	53.33	105.20	-51.87	1.50	230	43.74	9.59	Vertical	Peak
5720.00	54.73	110.80	-56.07	1.50	230	45.09	9.64	Vertical	Peak
5725.00	54.43	122.20	-67.77	1.50	230	44.78	9.65	Vertical	Peak
11490.00	55.51	68.20	-12.69	1.50	230	33.81	21.70	Vertical	Peak
11490.00	42.88	54.00	-11.12	1.50	230	21.18	21.70	Vertical	Average
U-NII-3_802.11ac-VHT20_5825MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	52.98	122.20	-69.22	1.70	140	43.20	9.78	Horizontal	Peak
5855.00	54.40	110.80	-56.40	1.70	140	44.61	9.79	Horizontal	Peak
5875.00	53.40	105.20	-51.80	1.70	140	43.56	9.84	Horizontal	Peak
5925.00	54.68	68.20	-13.52	1.70	140	44.71	9.97	Horizontal	Peak
11650.00	54.30	68.20	-13.90	1.70	140	32.40	21.90	Horizontal	Peak
11650.00	42.82	54.00	-11.18	1.70	140	20.92	21.90	Horizontal	Average
5850.00	53.43	122.20	-68.77	1.50	230	43.65	9.78	Vertical	Peak
5855.00	53.11	110.80	-57.69	1.50	230	43.32	9.79	Vertical	Peak
5875.00	54.54	105.20	-50.66	1.50	230	44.70	9.84	Vertical	Peak
5925.00	54.15	68.20	-14.05	1.50	230	44.18	9.97	Vertical	Peak
11650.00	55.23	68.20	-12.97	1.50	230	33.33	21.90	Vertical	Peak
11650.00	42.33	54.00	-11.67	1.50	230	20.43	21.90	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-3_802.11a_5785MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.56	68.20	-14.64	1.70	140	31.86	21.70	Horizontal	Peak
11570.00	43.13	54.00	-10.87	1.70	140	21.43	21.70	Horizontal	Average
11570.00	52.94	68.20	-15.26	1.50	230	31.24	21.70	Vertical	Peak
11570.00	41.43	54.00	-12.57	1.50	230	19.73	21.70	Vertical	Average
U-NII-3_802.11n-HT20_5785MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.69	68.20	-14.51	1.70	140	31.99	21.70	Horizontal	Peak
11570.00	42.73	54.00	-11.27	1.70	140	21.03	21.70	Horizontal	Average
11570.00	52.79	68.20	-15.41	1.50	230	31.09	21.70	Vertical	Peak
11570.00	41.54	54.00	-12.46	1.50	230	19.84	21.70	Vertical	Average
U-NII-3_802.11ac-VHT20_5785MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
11570.00	53.82	68.20	-14.38	1.70	140	32.12	21.70	Horizontal	Peak
11570.00	42.82	54.00	-11.18	1.70	140	21.12	21.70	Horizontal	Average
11570.00	52.75	68.20	-15.45	1.50	230	31.05	21.70	Vertical	Peak
11570.00	41.58	54.00	-12.42	1.50	230	19.88	21.70	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-3_802.11n-HT40_5755MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	53.86	68.20	-14.34	1.70	140	44.40	9.46	Horizontal	Peak
5700.00	53.72	105.20	-51.48	1.70	140	44.13	9.59	Horizontal	Peak
5720.00	53.26	110.80	-57.54	1.70	140	43.62	9.64	Horizontal	Peak
5725.00	54.82	122.20	-67.38	1.70	140	45.17	9.65	Horizontal	Peak
11510.00	53.61	68.20	-14.59	1.70	140	31.91	21.70	Horizontal	Peak
11510.00	43.70	54.00	-10.30	1.70	140	22.00	21.70	Horizontal	Average
5650.00	52.40	68.20	-15.80	1.50	230	42.94	9.46	Vertical	Peak
5700.00	53.52	105.20	-51.68	1.50	230	43.93	9.59	Vertical	Peak
5720.00	54.62	110.80	-56.18	1.50	230	44.98	9.64	Vertical	Peak
5725.00	53.67	122.20	-68.53	1.50	230	44.02	9.65	Vertical	Peak
11510.00	55.41	68.20	-12.79	1.50	230	33.71	21.70	Vertical	Peak
11510.00	42.87	54.00	-11.13	1.50	230	21.17	21.70	Vertical	Average
U-NII-3_802.11n-HT40_5795MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	53.79	122.20	-68.41	1.70	140	44.01	9.78	Horizontal	Peak
5855.00	54.00	110.80	-56.80	1.70	140	44.21	9.79	Horizontal	Peak
5875.00	53.69	105.20	-51.51	1.70	140	43.85	9.84	Horizontal	Peak
5925.00	54.66	68.20	-13.54	1.70	140	44.69	9.97	Horizontal	Peak
11590.00	54.00	68.20	-14.20	1.70	140	32.10	21.90	Horizontal	Peak
11590.00	43.83	54.00	-10.17	1.70	140	21.93	21.90	Horizontal	Average
5850.00	51.99	122.20	-70.21	1.50	230	42.21	9.78	Vertical	Peak
5855.00	53.09	110.80	-57.71	1.50	230	43.30	9.79	Vertical	Peak
5875.00	54.83	105.20	-50.37	1.50	230	44.99	9.84	Vertical	Peak
5925.00	53.56	68.20	-14.64	1.50	230	43.59	9.97	Vertical	Peak
11590.00	55.65	68.20	-12.55	1.50	230	33.75	21.90	Vertical	Peak
11590.00	42.91	54.00	-11.09	1.50	230	21.01	21.90	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-3_802.11ac-VHT40_5755MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	53.50	68.20	-14.70	1.70	140	44.04	9.46	Horizontal	Peak
5700.00	54.03	105.20	-51.17	1.70	140	44.44	9.59	Horizontal	Peak
5720.00	53.16	110.80	-57.64	1.70	140	43.52	9.64	Horizontal	Peak
5725.00	54.91	122.20	-67.29	1.70	140	45.26	9.65	Horizontal	Peak
11510.00	53.98	68.20	-14.22	1.70	140	32.28	21.70	Horizontal	Peak
11510.00	43.34	54.00	-10.66	1.70	140	21.64	21.70	Horizontal	Average
5650.00	52.63	68.20	-15.57	1.50	230	43.17	9.46	Vertical	Peak
5700.00	53.65	105.20	-51.55	1.50	230	44.06	9.59	Vertical	Peak
5720.00	54.94	110.80	-55.86	1.50	230	45.30	9.64	Vertical	Peak
5725.00	54.09	122.20	-68.11	1.50	230	44.44	9.65	Vertical	Peak
11510.00	55.16	68.20	-13.04	1.50	230	33.46	21.70	Vertical	Peak
11510.00	42.48	54.00	-11.52	1.50	230	20.78	21.70	Vertical	Average
U-NII-3_802.11ac-VHT40_5795MHz									
Frequency (MHz)	Emssion Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5850.00	53.94	122.20	-68.26	1.70	140	44.16	9.78	Horizontal	Peak
5855.00	53.99	110.80	-56.81	1.70	140	44.20	9.79	Horizontal	Peak
5875.00	53.26	105.20	-51.94	1.70	140	43.42	9.84	Horizontal	Peak
5925.00	54.57	68.20	-13.63	1.70	140	44.60	9.97	Horizontal	Peak
11590.00	53.79	68.20	-14.41	1.70	140	31.89	21.90	Horizontal	Peak
11590.00	43.64	54.00	-10.36	1.70	140	21.74	21.90	Horizontal	Average
5850.00	51.63	122.20	-70.57	1.50	230	41.85	9.78	Vertical	Peak
5855.00	53.09	110.80	-57.71	1.50	230	43.30	9.79	Vertical	Peak
5875.00	54.81	105.20	-50.39	1.50	230	44.97	9.84	Vertical	Peak
5925.00	53.23	68.20	-14.97	1.50	230	43.26	9.97	Vertical	Peak
11590.00	55.37	68.20	-12.83	1.50	230	33.47	21.90	Vertical	Peak
11590.00	42.56	54.00	-11.44	1.50	230	20.66	21.90	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

U-NII-3_802.11ac-VHT80_5775MHz									
Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV/m)	Correction Factor (dB/m)	Polarity	Detector
5650.00	53.43	68.20	-14.77	1.70	140	43.97	9.46	Horizontal	Peak
5700.00	54.52	105.20	-50.68	1.70	140	44.93	9.59	Horizontal	Peak
5720.00	52.83	110.80	-57.97	1.70	140	43.19	9.64	Horizontal	Peak
5725.00	54.88	122.20	-67.32	1.70	140	45.23	9.65	Horizontal	Peak
5850.00	54.29	122.20	-67.91	1.70	140	44.51	9.78	Horizontal	Peak
5855.00	53.68	110.80	-57.12	1.70	140	43.89	9.79	Horizontal	Peak
5875.00	53.11	105.20	-52.09	1.70	140	43.27	9.84	Horizontal	Peak
5925.00	54.83	68.20	-13.37	1.70	140	44.86	9.97	Horizontal	Peak
11550.00	53.60	68.20	-14.60	1.70	140	31.80	21.80	Horizontal	Peak
11550.00	43.19	54.00	-10.81	1.70	140	21.39	21.80	Horizontal	Average
5650.00	53.10	68.20	-15.10	1.50	230	43.64	9.46	Vertical	Peak
5700.00	54.08	105.20	-51.12	1.50	230	44.49	9.59	Vertical	Peak
5720.00	54.55	110.80	-56.25	1.50	230	44.91	9.64	Vertical	Peak
5725.00	54.30	122.20	-67.90	1.50	230	44.65	9.65	Vertical	Peak
5850.00	51.36	122.20	-70.84	1.50	230	41.58	9.78	Vertical	Peak
5855.00	53.18	110.80	-57.62	1.50	230	43.39	9.79	Vertical	Peak
5875.00	54.87	105.20	-50.33	1.50	230	45.03	9.84	Vertical	Peak
5925.00	52.98	68.20	-15.22	1.50	230	43.01	9.97	Vertical	Peak
11550.00	55.44	68.20	-12.76	1.50	230	33.64	21.80	Vertical	Peak
11550.00	42.57	54.00	-11.43	1.50	230	20.77	21.80	Vertical	Average
Remark: 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m) 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB) 3. Margin value = Emission Level – Limit value 4. The emission levels of other frequencies are very lower than the limit and not show in test report.									

2.7. AC Power Line Conducted Emission

2.7.1. Limit of AC Power Line Conducted Emission

FCC 15.207,

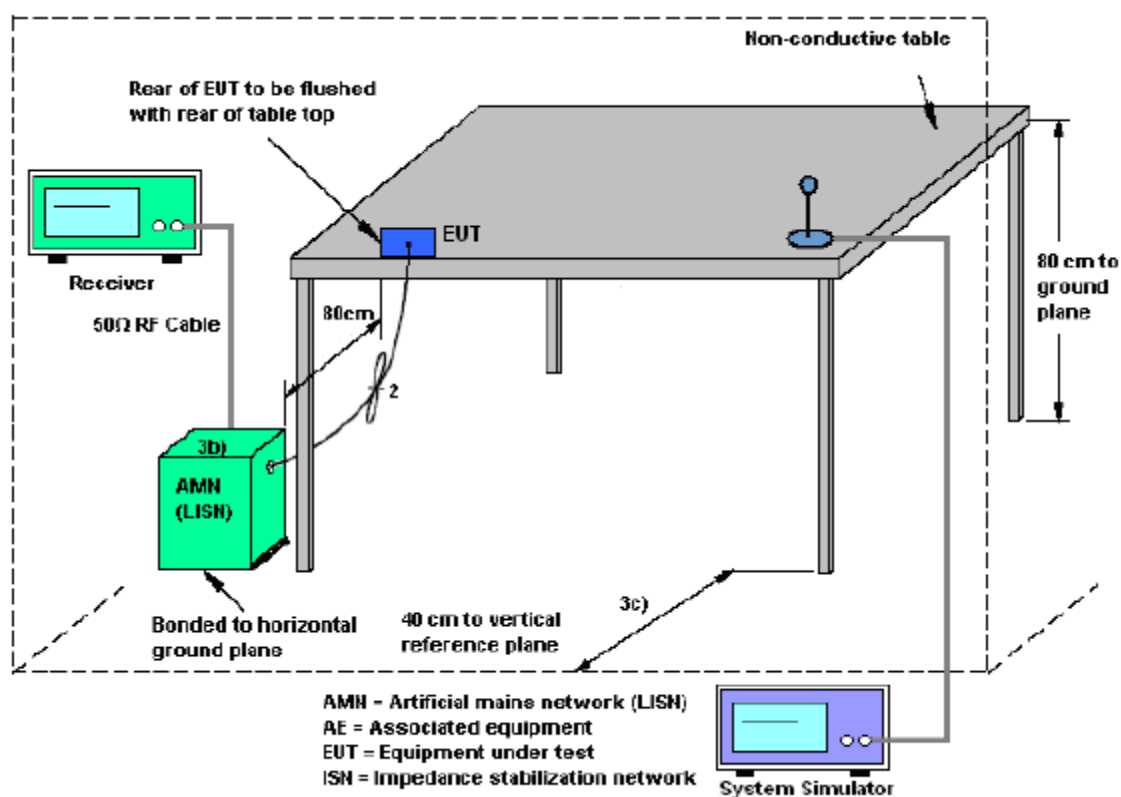
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

2.7.2. Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3. Test Setup

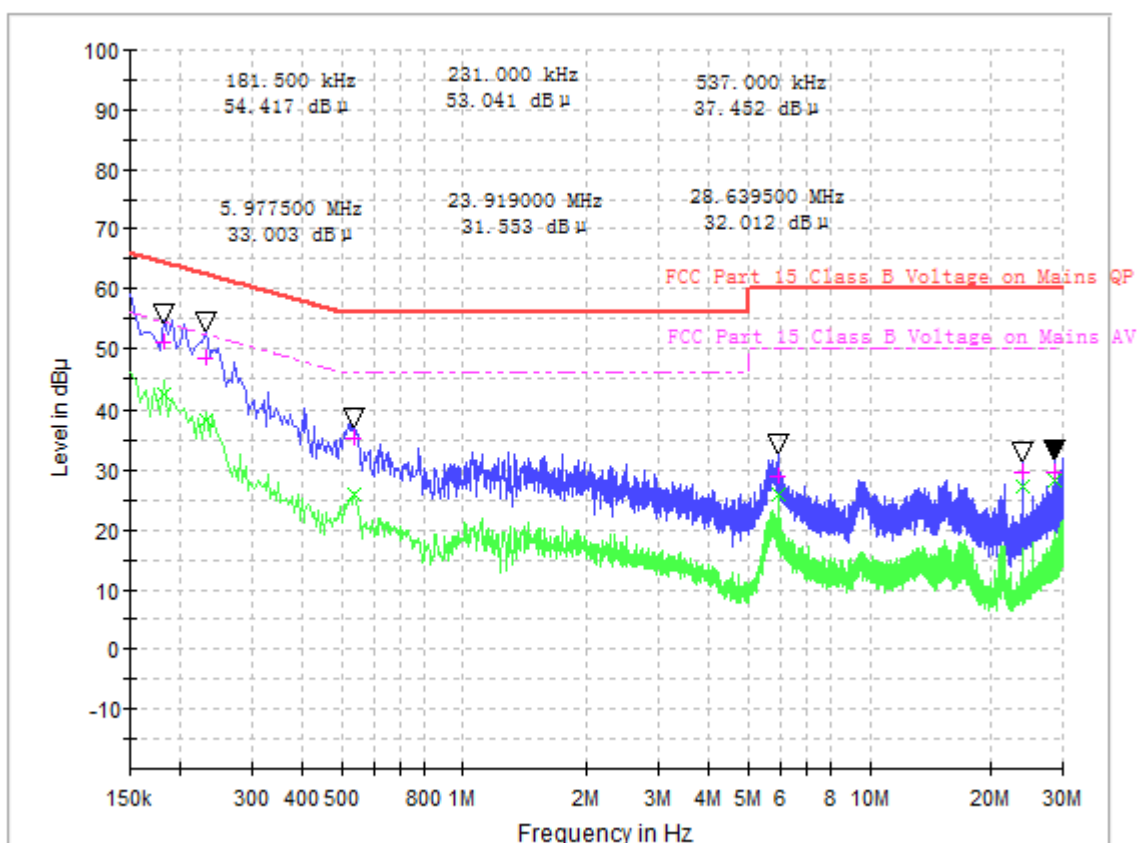


2.7.4. Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

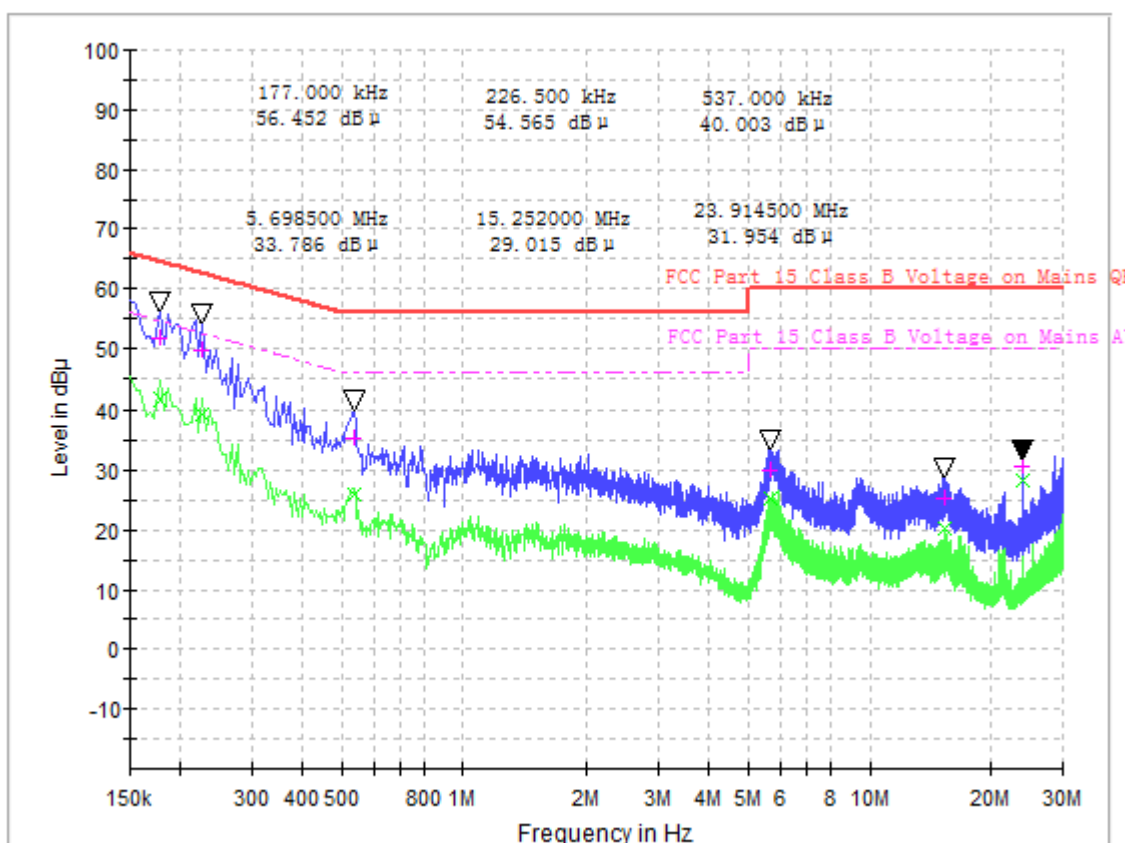
2.7.5. Test Results of Conducted Emission

The EUT configuration of the emission tests is 5G WLAN Link + USB Cable (Charging from Adapter)



(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Cable Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.181500	50.90	42.23	0.2	10.2	13.52	64.4	12.19	54.4
0.231000	48.24	38.38	0.2	10.2	14.17	62.4	14.03	52.4
0.537000	35.44	26.01	0.2	10.2	20.56	56.0	19.99	46.0
5.977500	28.89	26.03	0.5	10.5	31.11	60.0	23.97	50.0
23.919000	29.55	27.17	0.5	10.5	30.45	60.0	22.83	50.0
28.639500	29.73	28.31	0.5	10.5	30.27	60.0	21.69	50.0



(Plot A: NPhase)

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.177000	51.77	41.78	0.2	10.2	12.86	64.6	12.85	54.6
0.226500	49.81	39.19	0.2	10.2	12.77	62.6	13.39	52.6
0.537000	35.31	26.07	0.2	10.2	20.69	56.0	19.93	46.0
5.698500	30.10	25.27	0.5	10.5	29.90	60.0	24.73	50.0
15.252000	25.17	20.12	0.5	10.5	34.83	60.0	29.88	50.0
23.914500	30.55	28.28	0.5	10.5	29.45	60.0	21.72	50.0

Test result:PASS

Note: Correction factor=Cabel loss+ attenuation factor
attenuation factor=10dB

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI TEST RECEIVER	KEYSIGHT	N9038A	A141202036	2021.04.26	2022.04.25
2	Power Meter	R&S	NRP-Z31	102872	2021.04.26	2022.04.25
3	TURNTABLE	ETS	2088	2149	N/A	N/A
4	ANTENNA MAST	ETS	2075	2346	N/A	N/A
5	EMI TEST Software	R&S	ESK1	N/A	N/A	N/A
6	Horn antenna (18GHz~26.5GHz)	AR	AT4003A	325306	2020.09.16	2022.09.15
7	Amplifier 30M~1GHz	MILMEGA	80RF1000-10004	A140101634	2021.01.26	2022.01.25
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/40 0	A160302517	2021.01.26	2022.01.25
9	High pass filter	Compliance Direction systems	BSU-6	34202	2021.11.09	2022.11.08
10	Horn Antenna	R&S	HF906	A0304225	2019.04.17	2022.04.16
11	Horn Antenna	R&S	ESIB7	A0501375	2020.06.24	2022.06.22
12	ULTRA-BROADBAND ANTENNA	SCHWARZBEC K	VULB9160	A0805560	2019.05.24	2022.05.23
13	Passive Loop Antenna	R&S	HFH2-Z2	100047	2019.04.26	2022.04.25
14	Temperature chamber	TABAI	PS-232	A8708054	2021.09.24	2022.09.23
15	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2021.04.26	2022.04.25
16	Power Supply	R&S	ESIB26	A0304218	2021.01.04	2022.01.03
17	LISN	ROHDE&SCH WARZ	ENV216	A140701847	2021.08.11	2022.08.10
18	Test software	ECIT	Eagle	V2.0	N/A	N/A

4. Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence . The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150KHz~30MHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	5.0dB
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Uncertainty of Radiated Emission Measurement (1GHz~18GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	5.1dB
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Uncertainty of Radiated Emission Measurement (18GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	5.1dB
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Appendix A

Output power

Test results

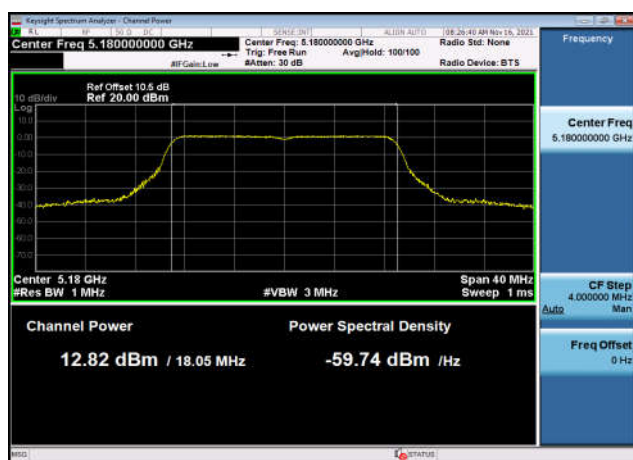
U-NII-1 AVGSA Output Power				
Mode	Test Frequency (MHz)	Max Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5180	12.82	24	Pass
802.11n (20MHz)	5220	13.43	24	Pass
802.11n (20MHz)	5240	12.76	24	Pass
802.11n (40MHz)	5190	12.68	24	Pass
802.11n (40MHz)	5230	12.21	24	Pass
802.11ac (20MHz)	5180	12.31	24	Pass
802.11ac (20MHz)	5220	13.02	24	Pass
802.11ac (20MHz)	5240	12.49	24	Pass
802.11ac (40MHz)	5190	12.31	24	Pass
802.11ac (40MHz)	5230	11.96	24	Pass
802.11ac (80MHz)	5210	10.70	24	Pass
802.11a (20MHz)	5180	13.09	24	Pass
802.11a (20MHz)	5220	13.42	24	Pass
802.11a (20MHz)	5240	12.76	24	Pass



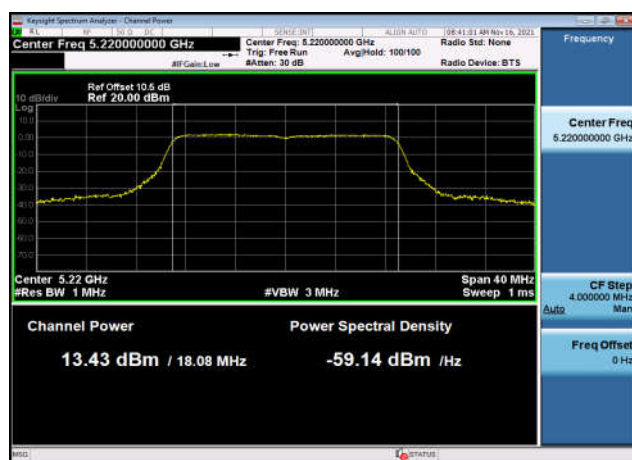
U-NII-3 AVGSA Output Power				
Mode	Test Frequency (MHz)	Max Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5745	9.30	30	Pass
802.11n (20MHz)	5785	8.95	30	Pass
802.11n (20MHz)	5825	8.05	30	Pass
802.11n (40MHz)	5755	7.63	30	Pass
802.11n (40MHz)	5795	6.89	30	Pass
802.11ac (20MHz)	5745	7.64	30	Pass
802.11ac (20MHz)	5785	7.38	30	Pass
802.11ac (20MHz)	5825	5.78	30	Pass
802.11ac (40MHz)	5755	7.52	30	Pass
802.11ac (40MHz)	5795	6.76	30	Pass
802.11ac (80MHz)	5775	5.27	30	Pass
802.11a (20MHz)	5745	9.27	30	Pass
802.11a (20MHz)	5785	9.13	30	Pass
802.11a (20MHz)	5825	8.07	30	Pass

Test plots

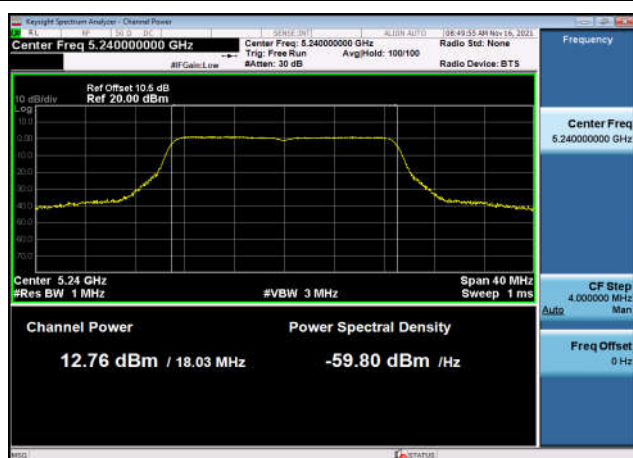
U-NII-1 Output Power-802.11n(20MHz)
,5180MHz,Ant1



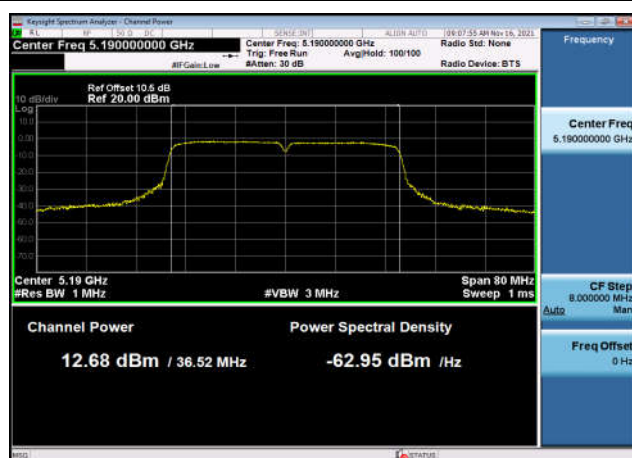
U-NII-1 Output Power-802.11n(20MHz)
,5220MHz,Ant1



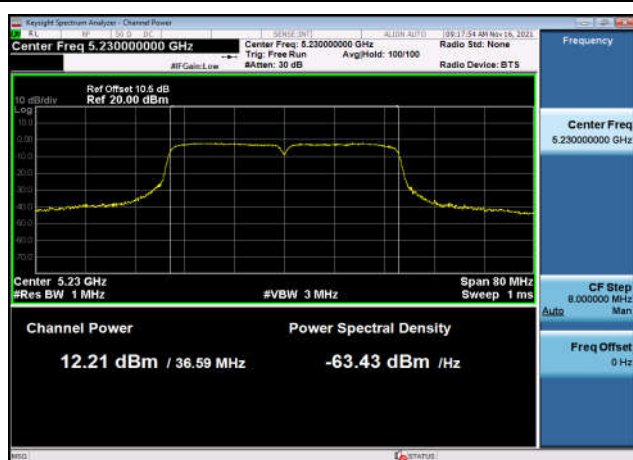
U-NII-1 Output Power-802.11n(20MHz)
,5240MHz,Ant1



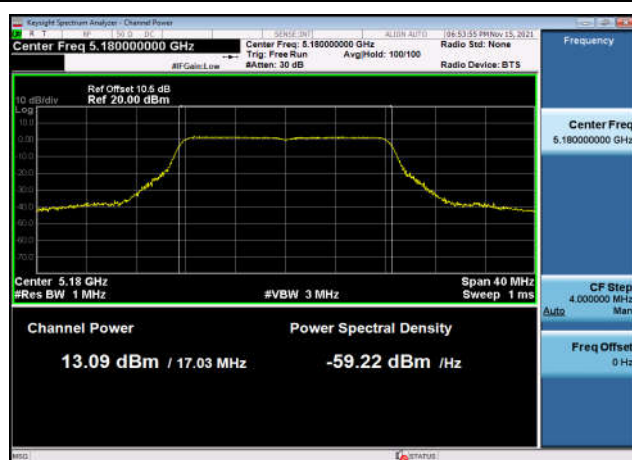
U-NII-1 Output Power-802.11n(40MHz)
,5190MHz,Ant1



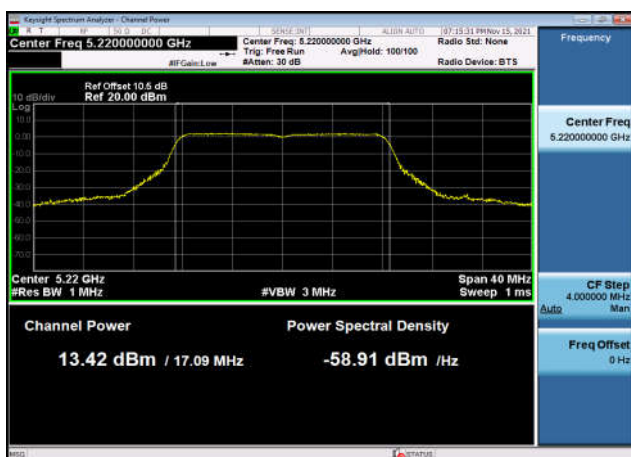
U-NII-1 Output Power-802.11n(40MHz)
,5230MHz,Ant1



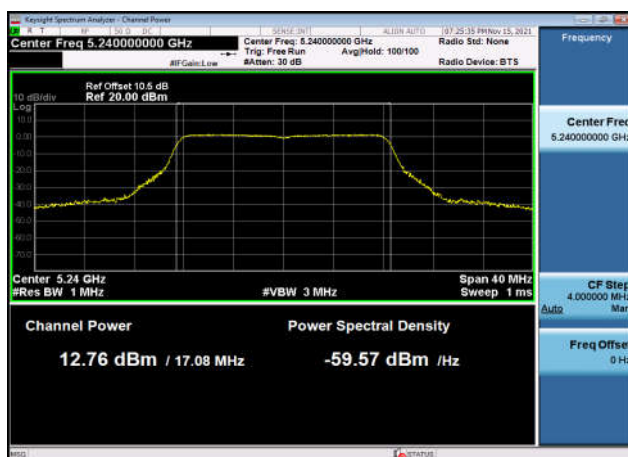
U-NII-1 Output Power-802.11a(20MHz)
,5180MHz,Ant1



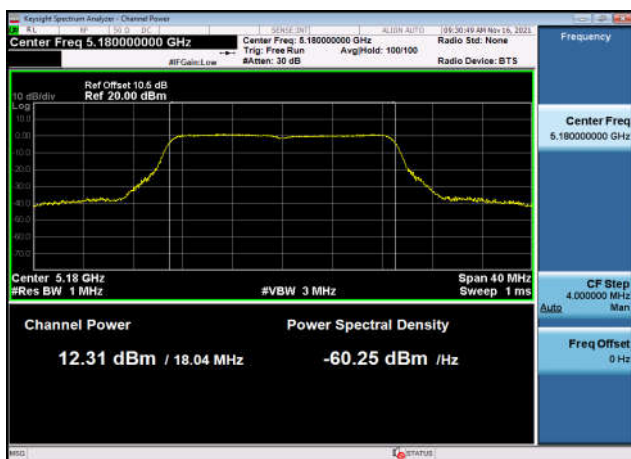
U-NII-1 Output Power-802.11a(20MHz)
,5220MHz,Ant1



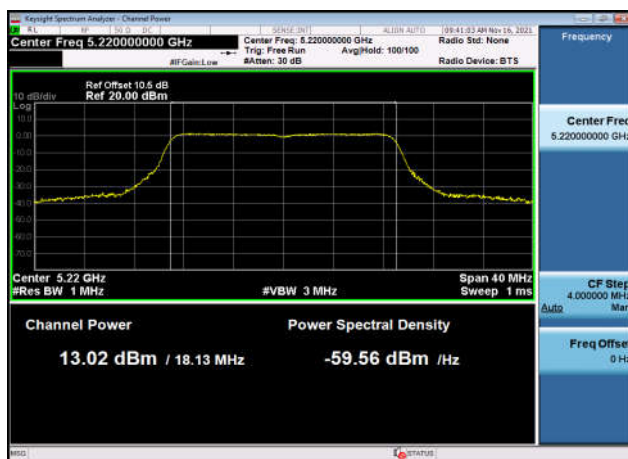
U-NII-1 Output Power-802.11a(20MHz)
,5240MHz,Ant1



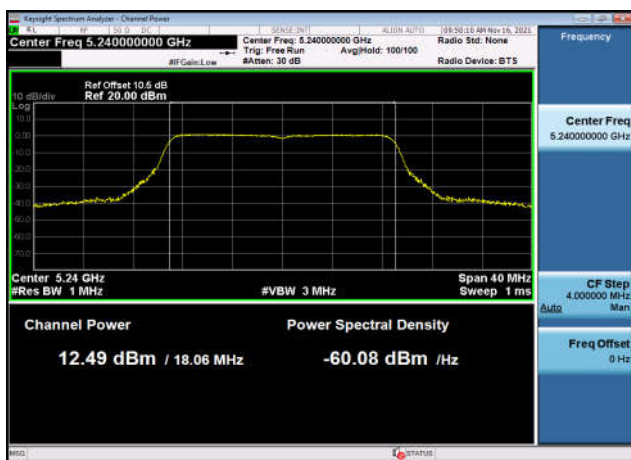
U-NII-1 Output Power-802.11ac(20MHz)
,5180MHz,Ant1



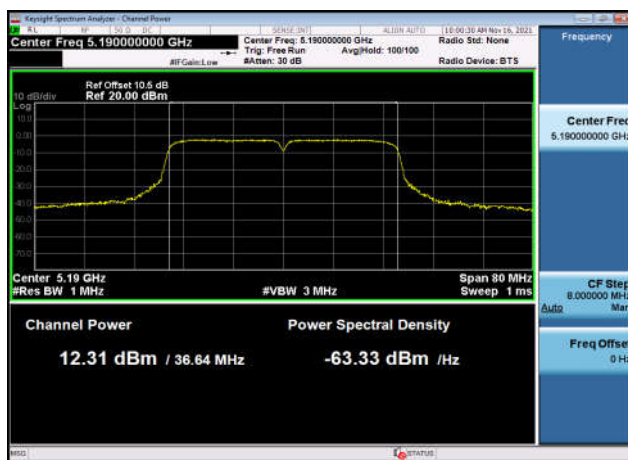
U-NII-1 Output Power-802.11ac(20MHz)
,5220MHz,Ant1



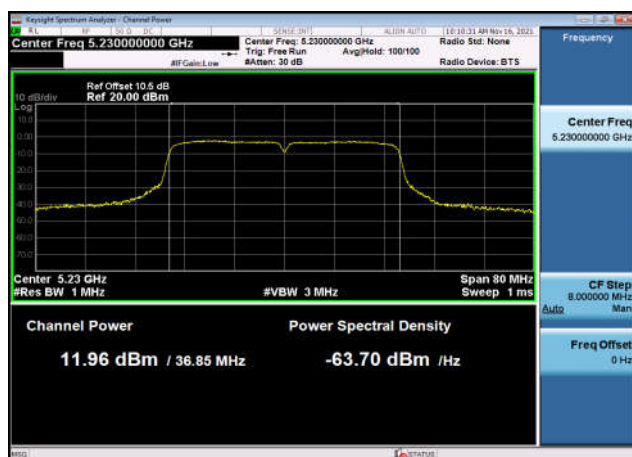
U-NII-1 Output Power-802.11ac(20MHz)
,5240MHz,Ant1



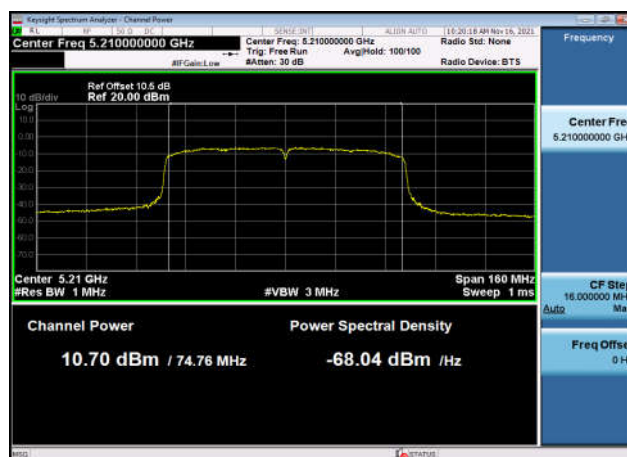
U-NII-1 Output Power-802.11ac(40MHz)
,5190MHz,Ant1



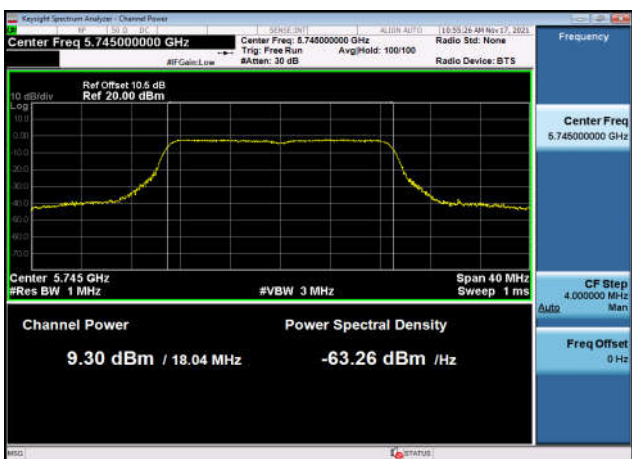
U-NII-1 Output Power-802.11ac(40MHz)
,5230MHz,Ant1



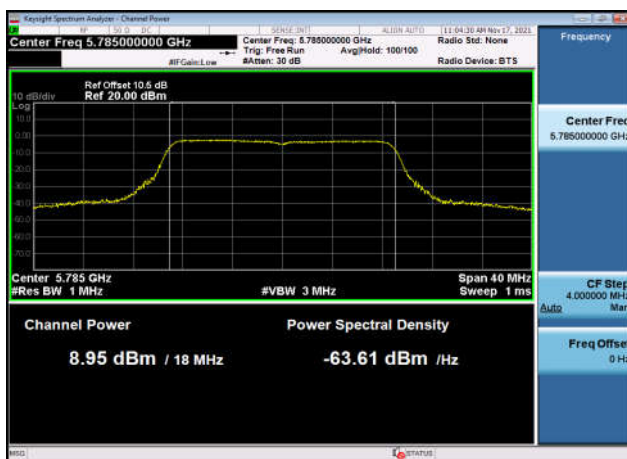
U-NII-1 Output Power-802.11ac(80MHz)
,5210MHz,Ant1



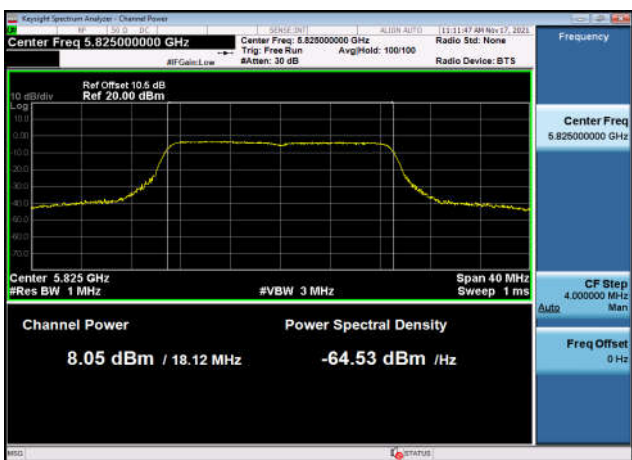
U-NII-3 Output Power-802.11n(20MHz)
,5745MHz,Ant1



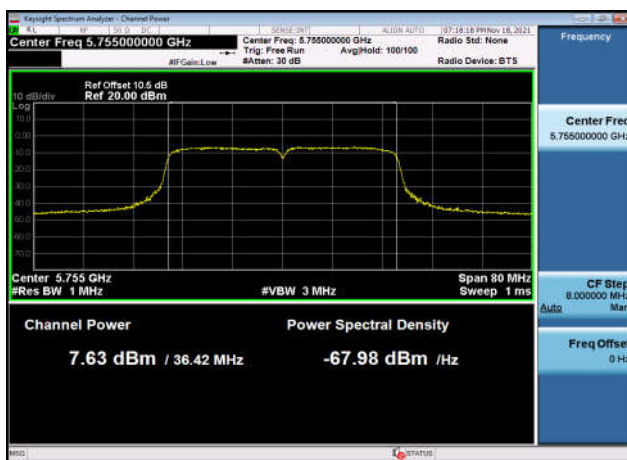
U-NII-3 Output Power-802.11n(20MHz)
,5785MHz,Ant1



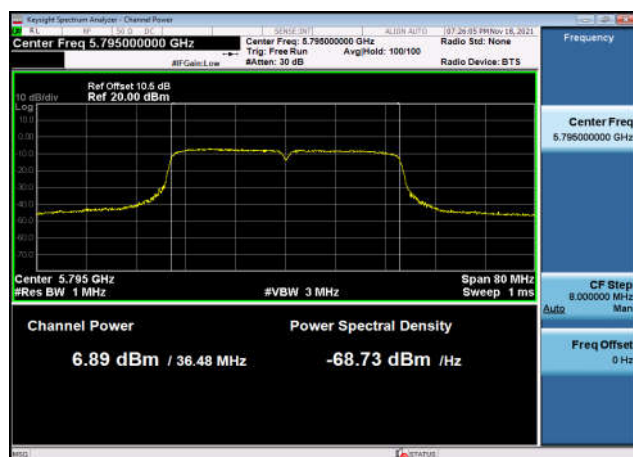
U-NII-3 Output Power-802.11n(20MHz)
,5825MHz,Ant1



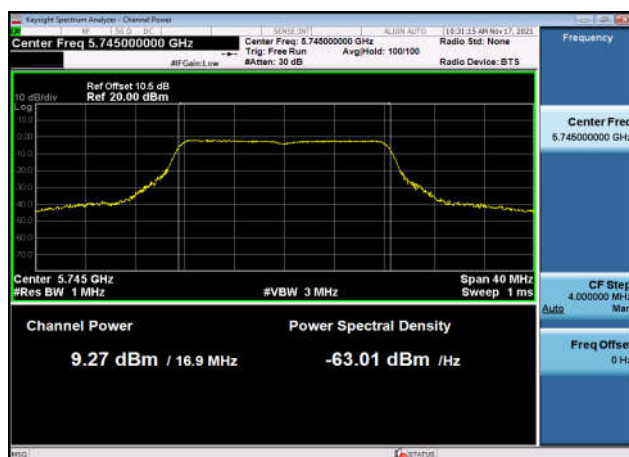
U-NII-3 Output Power-802.11n(40MHz)
,5755MHz,Ant1



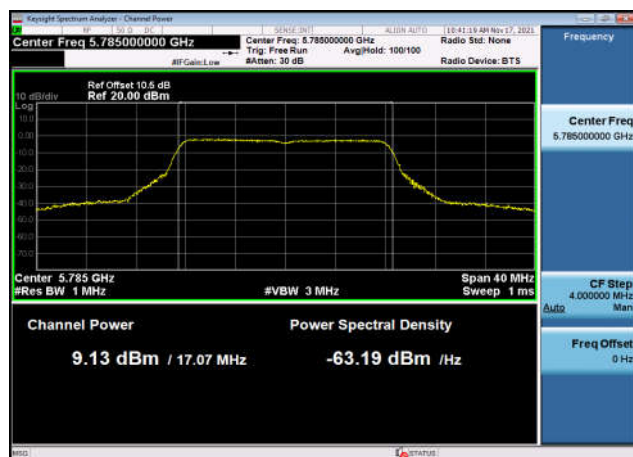
U-NII-3 Output Power-802.11n(40MHz)
,5795MHz,Ant1



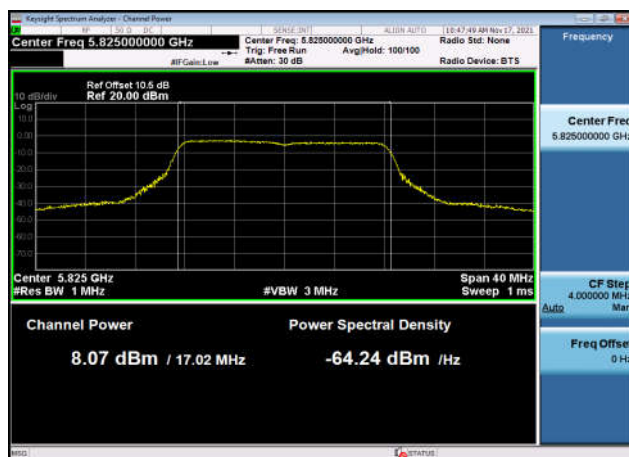
U-NII-3 Output Power-802.11a(20MHz)
,5745MHz,Ant1



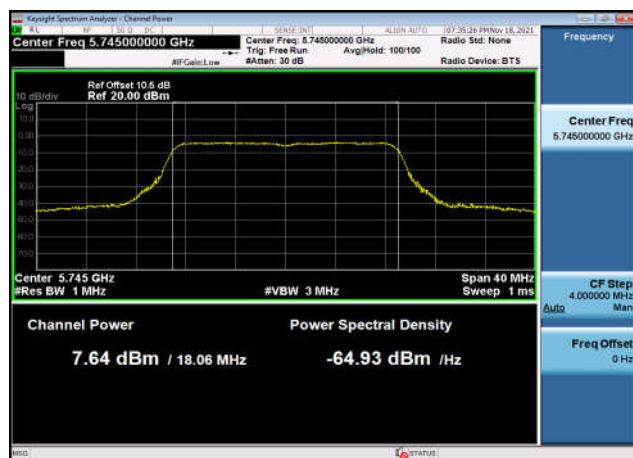
U-NII-3 Output Power-802.11a(20MHz)
,5785MHz,Ant1



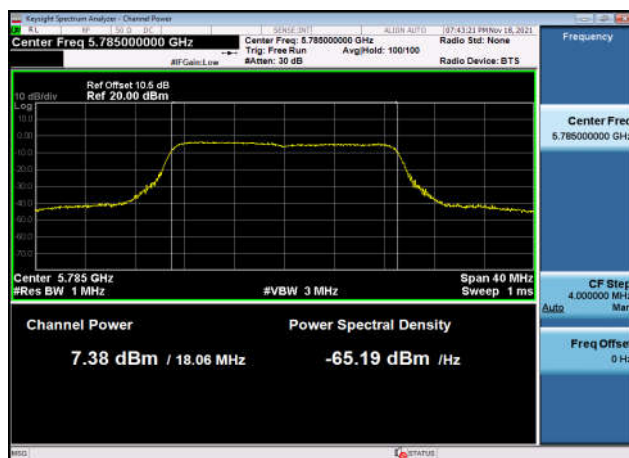
U-NII-3 Output Power-802.11a(20MHz)
,5825MHz,Ant1



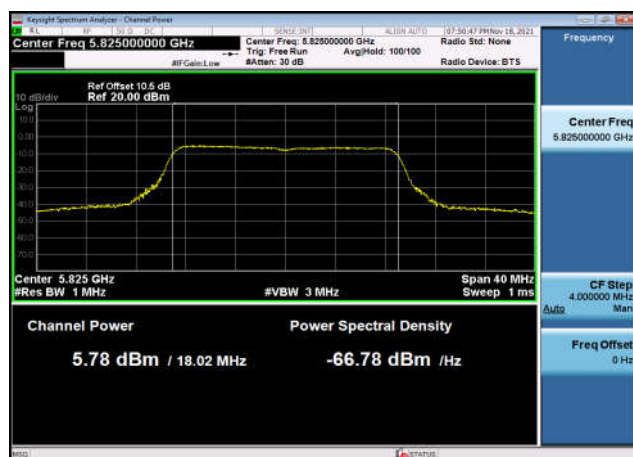
U-NII-3 Output Power-802.11ac(20MHz)
,5745MHz,Ant1



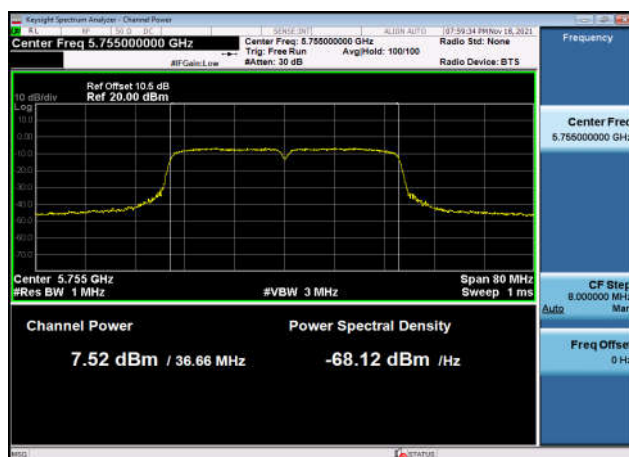
U-NII-3 Output Power-802.11ac(20MHz)
,5785MHz,Ant1



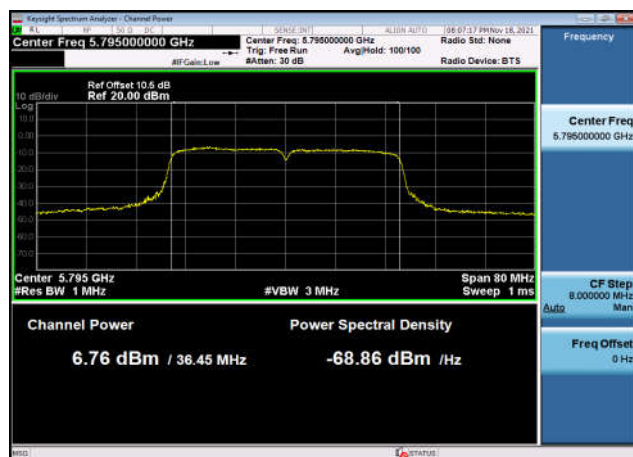
U-NII-3 Output Power-802.11ac(20MHz)
,5825MHz,Ant1



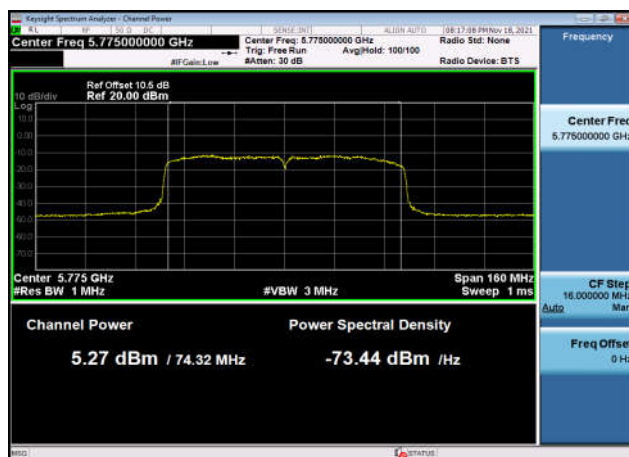
U-NII-3 Output Power-802.11ac(40MHz)
,5755MHz,Ant1



U-NII-3 Output Power-802.11ac(40MHz)
,5795MHz,Ant1



U-NII-3 Output Power-802.11ac(80MHz)
,5775MHz,Ant1



AVGSA Power Spectral Density

Test Result and Data

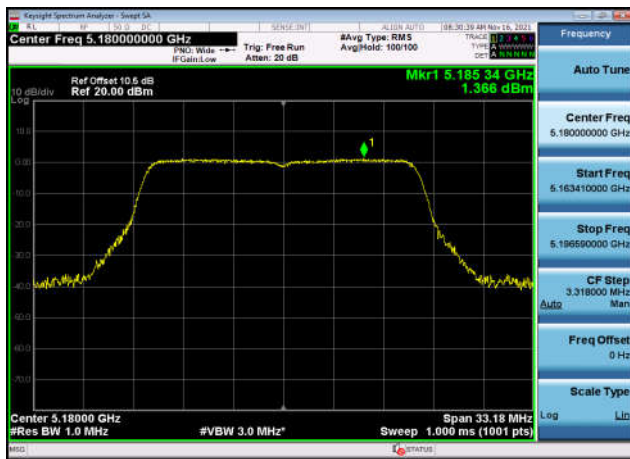
U-NII-1 AVGSA Power Spectral Density				
Mode	Test Frequency (MHz)	PSD (dBm/1MHz)	Limit (dBm/1MHz)	Result
802.11n (20MHz)	5180	1.366	11	Pass
802.11n (20MHz)	5220	1.807	11	Pass
802.11n (20MHz)	5240	1.398	11	Pass
802.11n (40MHz)	5190	-1.415	11	Pass
802.11n (40MHz)	5230	-1.011	11	Pass
802.11ac (20MHz)	5180	1.332	11	Pass
802.11ac (20MHz)	5220	1.980	11	Pass
802.11ac (20MHz)	5240	1.008	11	Pass
802.11ac (40MHz)	5190	-1.725	11	Pass
802.11ac (40MHz)	5230	-1.999	11	Pass
802.11ac (80MHz)	5210	-6.094	11	Pass
802.11a (20MHz)	5180	1.850	11	Pass
802.11a (20MHz)	5220	2.149	11	Pass
802.11a (20MHz)	5240	1.610	11	Pass



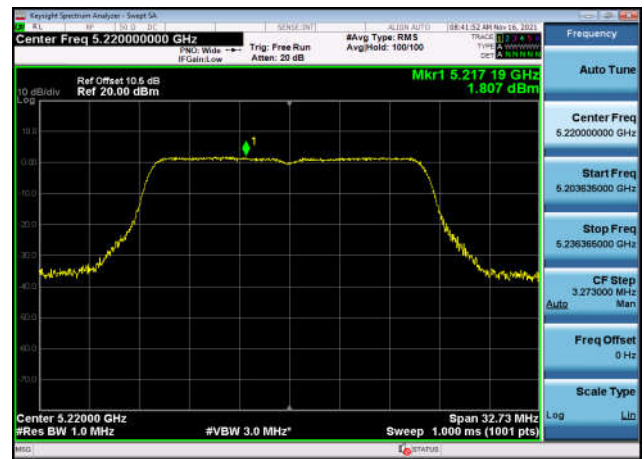
U-NII-3 AVGSA Power Spectral Density						
Mode	Test Frequency (MHz)	PSD (dBm/510KHz)	Correction factor	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Result
802.11n (20MHz)	5745	-4.873	-0.086	-4.959	30	Pass
802.11n (20MHz)	5785	-4.866	-0.086	-4.952	30	Pass
802.11n (20MHz)	5825	-8.240	-0.086	-8.326	30	Pass
802.11n (40MHz)	5755	-9.058	-0.086	-9.144	30	Pass
802.11n (40MHz)	5795	-9.285	-0.086	-9.371	30	Pass
802.11ac (20MHz)	5745	-6.454	-0.086	-6.54	30	Pass
802.11ac (20MHz)	5785	-6.788	-0.086	-6.874	30	Pass
802.11ac (20MHz)	5825	-8.199	-0.086	-8.285	30	Pass
802.11ac (40MHz)	5755	-9.088	-0.086	-9.174	30	Pass
802.11ac (40MHz)	5795	-9.371	-0.086	-9.457	30	Pass
802.11ac (80MHz)	5775	-13.602	-0.086	-13.688	30	Pass
802.11a (20MHz)	5745	-4.152	-0.086	-4.238	30	Pass
802.11a (20MHz)	5785	-4.705	-0.086	-4.791	30	Pass
802.11a (20MHz)	5825	-6.053	-0.086	-6.139	30	Pass
Remark: Final result showed in report was corrected by reading level showed in test plots + correction factor. Correction factor = $10 \log (500 \text{ kHz}_{\text{Reference}} / 510 \text{ KHz}_{\text{Measured}}) = -0.086$						

Test Plots

U-NII-1 Power spectral density-802.11
n(20MHz),5180MHz,Ant1



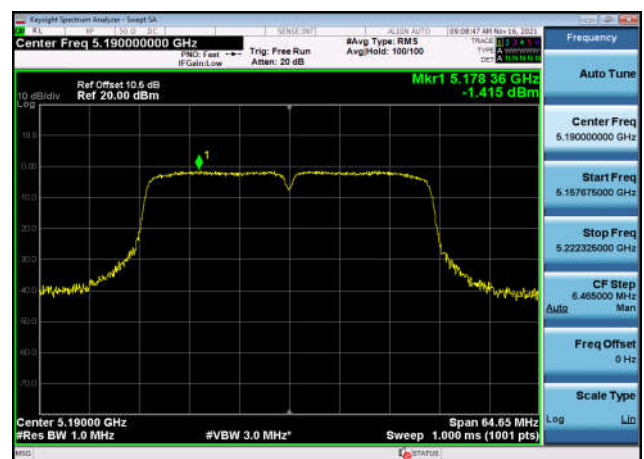
U-NII-1 Power spectral density-802.11
n(20MHz),5220MHz,Ant1



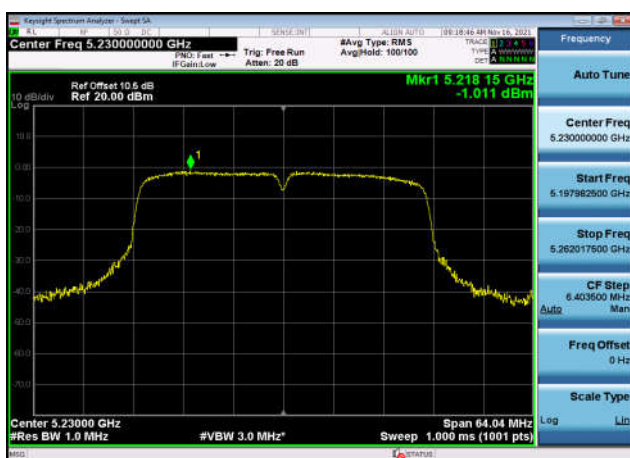
U-NII-1 Power spectral density-802.11
n(20MHz),5240MHz,Ant1



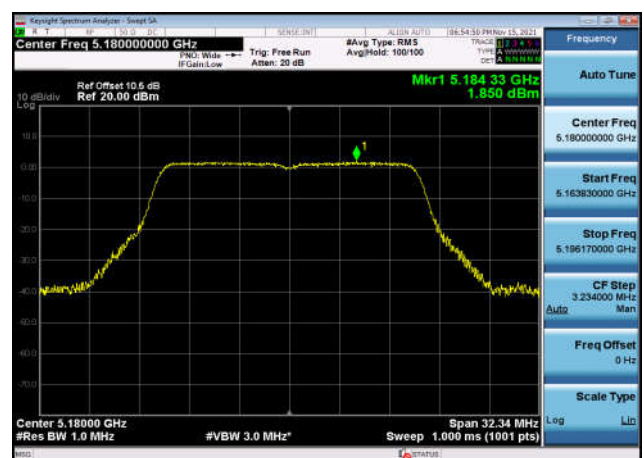
U-NII-1 Power spectral density-802.11
n(40MHz),5190MHz,Ant1



U-NII-1 Power spectral density-802.11
n(40MHz),5230MHz,Ant1



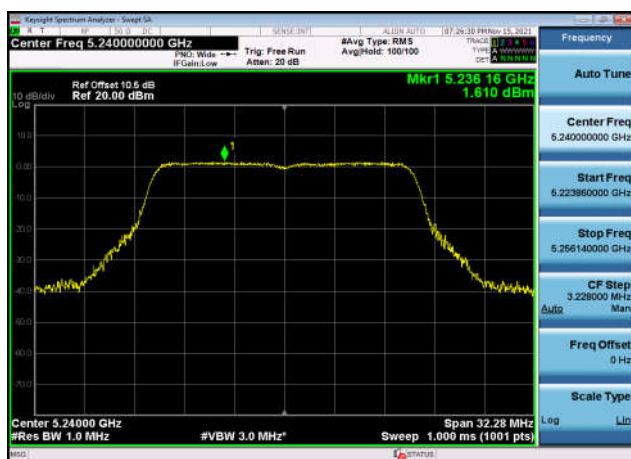
U-NII-1 Power spectral density-802.11
a(20MHz),5180MHz,Ant1



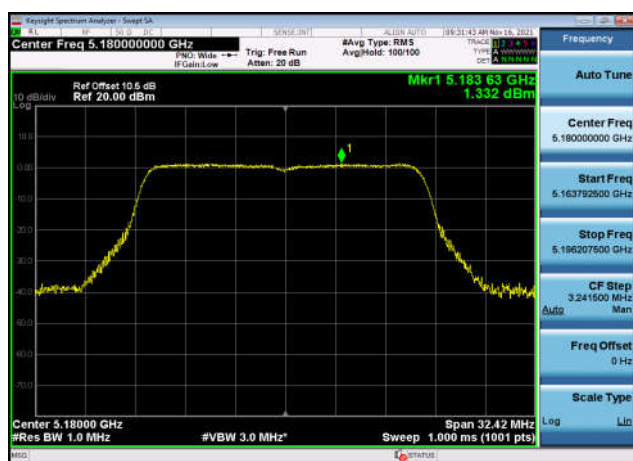
U-NII-1 Power spectral density-802.11
a(20MHz),5220MHz,Ant1



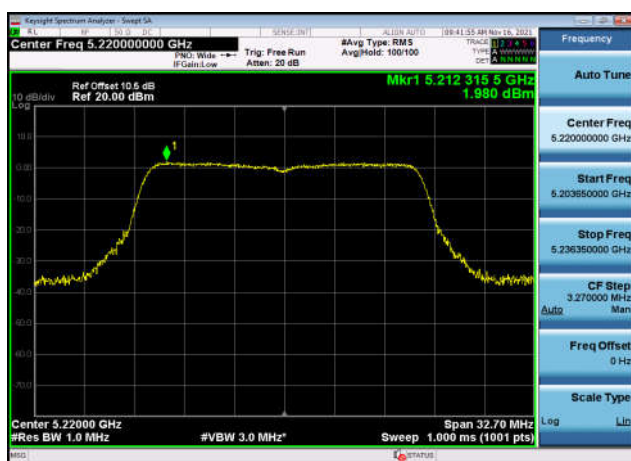
U-NII-1 Power spectral density-802.11
a(20MHz),5240MHz,Ant1



U-NII-1 Power spectral density-802.11
ac(20MHz),5180MHz,Ant1



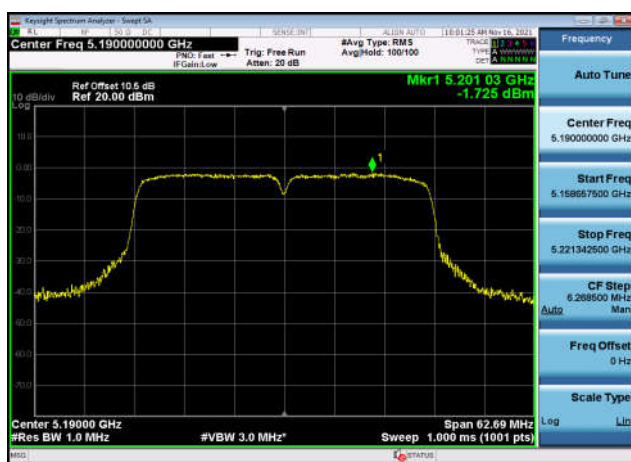
U-NII-1 Power spectral density-802.11
ac(20MHz),5220MHz,Ant1



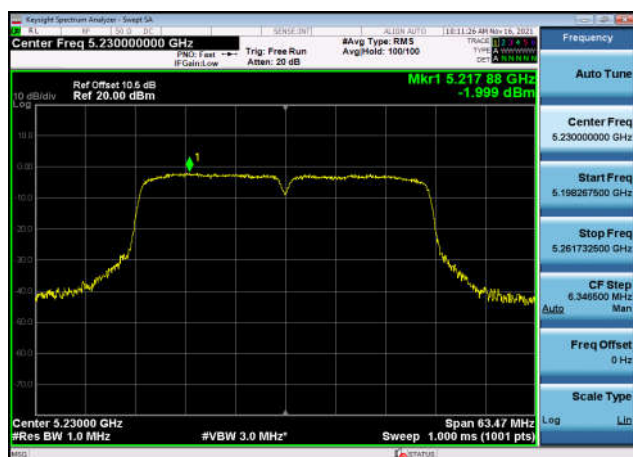
U-NII-1 Power spectral density-802.11
ac(20MHz),5240MHz,Ant1



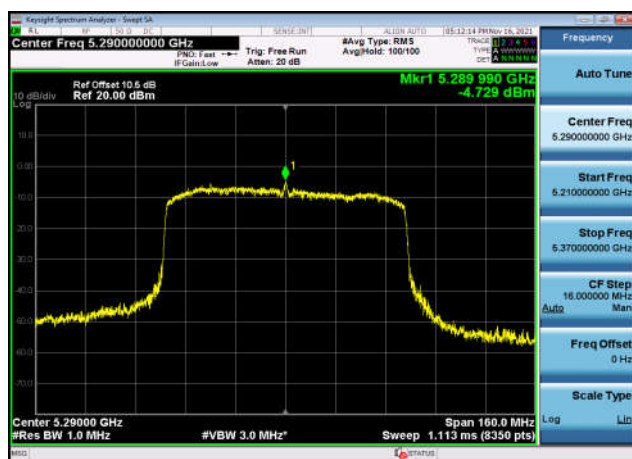
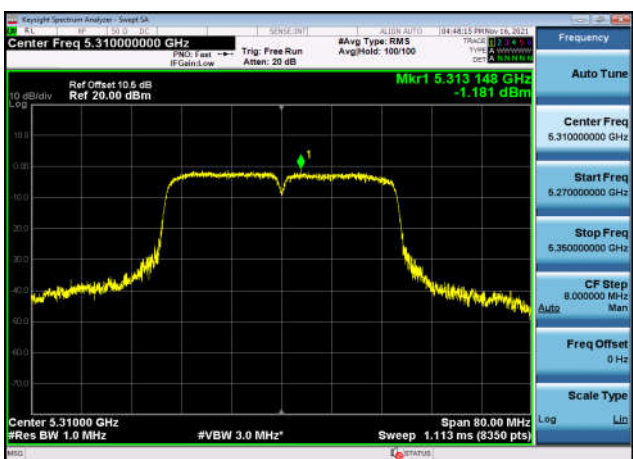
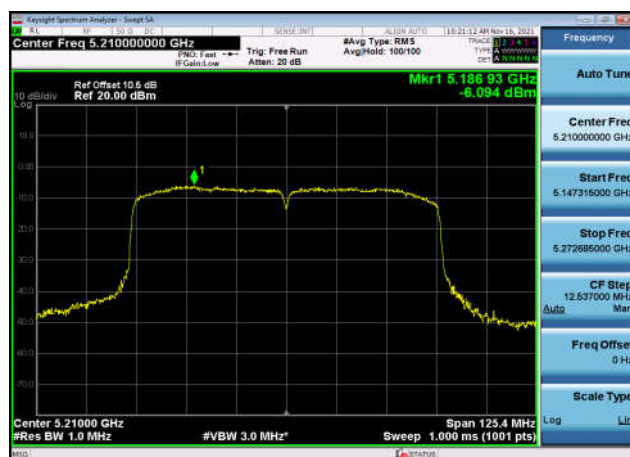
U-NII-1 Power spectral density-802.11
ac(40MHz),5190MHz,Ant1



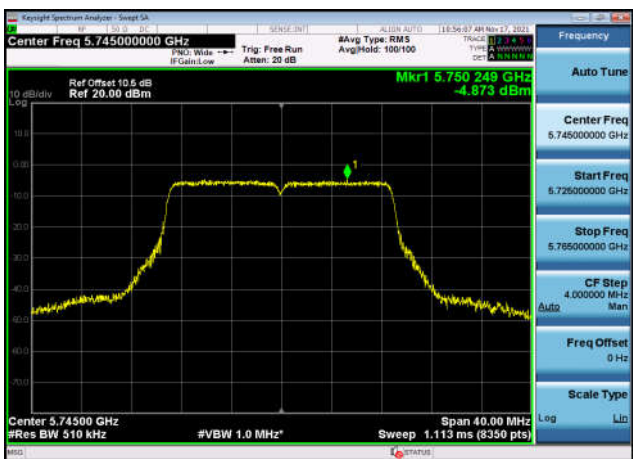
U-NII-1 Power spectral density-802.11
ac(40MHz),5230MHz,Ant1



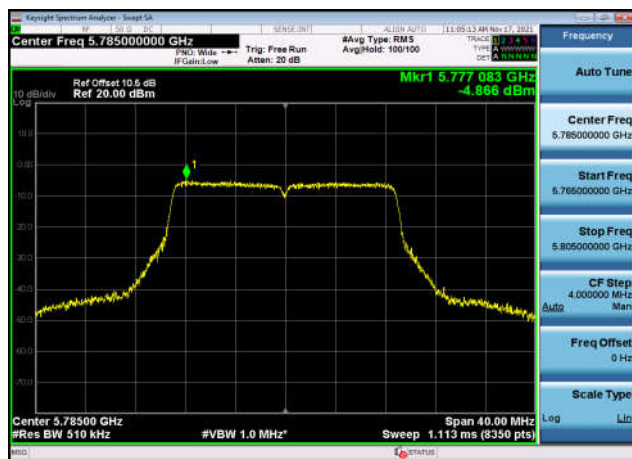
U-NII-1 Power spectral density-802.11
ac(80MHz),5210MHz,Ant1



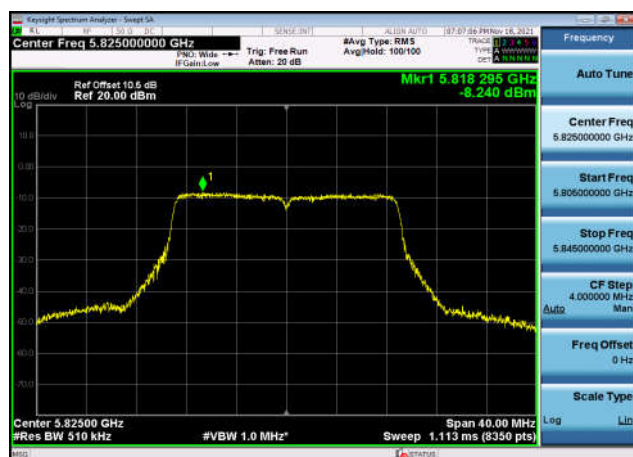
U-NII-3 Power spectral density-802.11
n(20MHz),5745MHz,Ant1



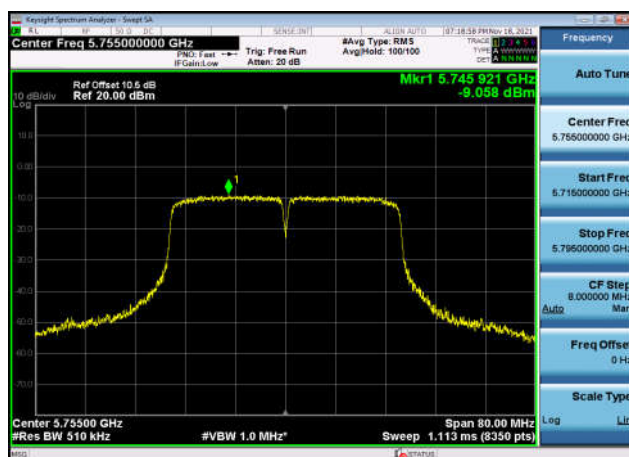
U-NII-3 Power spectral density-802.11
n(20MHz),5785MHz,Ant1



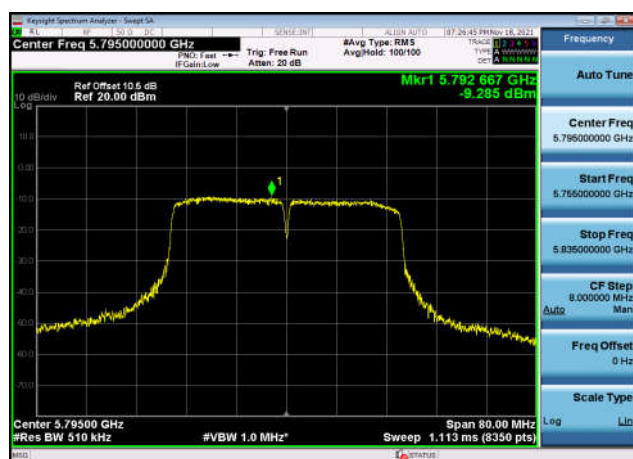
U-NII-3 Power spectral density-802.11
n(20MHz),5825MHz,Ant1



U-NII-3 Power spectral density-802.11
n(40MHz),5755MHz,Ant1



U-NII-3 Power spectral density-802.11
n(40MHz),5795MHz,Ant1



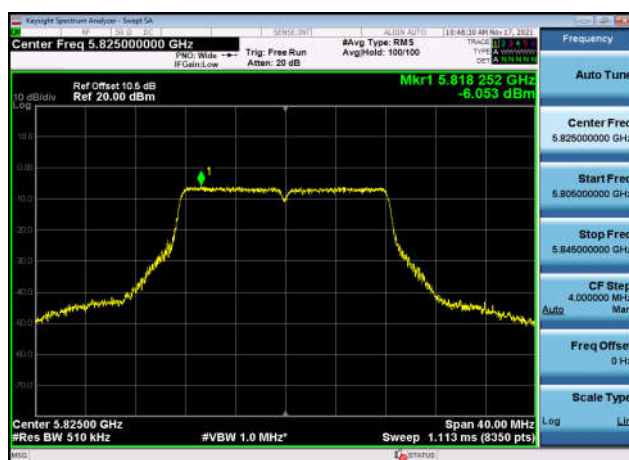
U-NII-3 Power spectral density-802.11
a(20MHz),5745MHz,Ant1



U-NII-3 Power spectral density-802.11
a(20MHz),5785MHz,Ant1



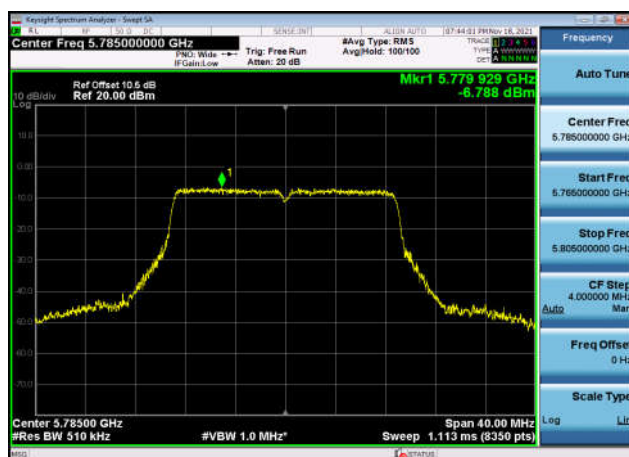
U-NII-3 Power spectral density-802.11
a(20MHz),5825MHz,Ant1



U-NII-3 Power spectral density-802.11
ac(20MHz),5745MHz,Ant1



U-NII-3 Power spectral density-802.11
ac(20MHz),5785MHz,Ant1



U-NII-3 Power spectral density-802.11
ac(20MHz),5825MHz,Ant1



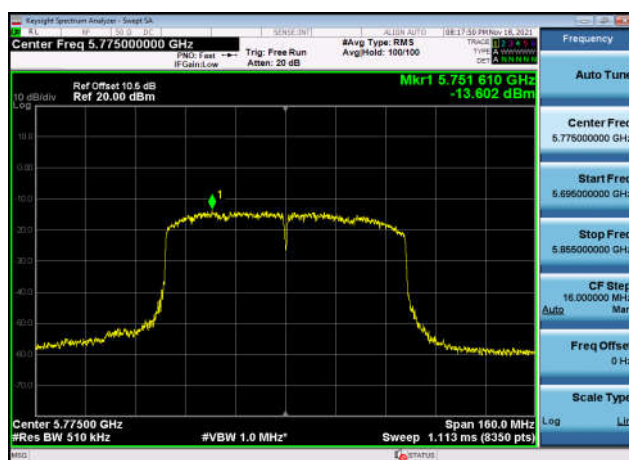
U-NII-3 Power spectral density-802.11
ac(40MHz),5755MHz,Ant1



U-NII-3 Power spectral density-802.11
ac(40MHz),5795MHz,Ant1



U-NII-3 Power spectral density-802.11
ac(80MHz),5775MHz,Ant1





26dB Down Bandwidth

Test Result and Data

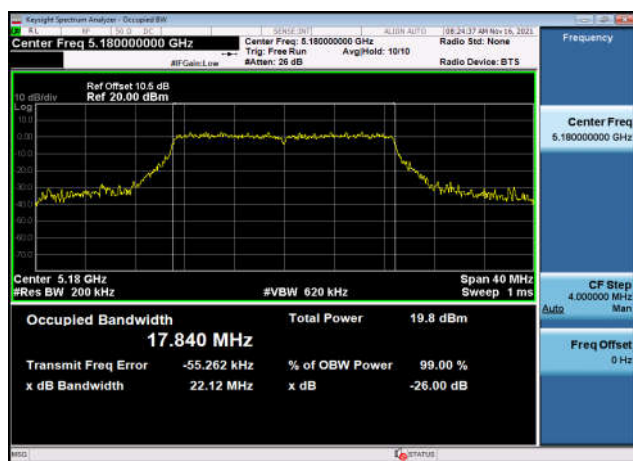
U-NII-1 Occupied 26dB Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5180	22.12	Pass
802.11n (20MHz)	5220	21.82	Pass
802.11n (20MHz)	5240	22.20	Pass
802.11n (40MHz)	5190	43.10	Pass
802.11n (40MHz)	5230	42.69	Pass
802.11ac (20MHz)	5180	21.61	Pass
802.11ac (20MHz)	5220	21.80	Pass
802.11ac (20MHz)	5240	21.60	Pass
802.11ac (40MHz)	5190	41.79	Pass
802.11ac (40MHz)	5230	42.31	Pass
802.11ac (80MHz)	5210	83.58	Pass
802.11a (20MHz)	5180	21.56	Pass
802.11a (20MHz)	5220	21.95	Pass
802.11a (20MHz)	5240	21.52	Pass



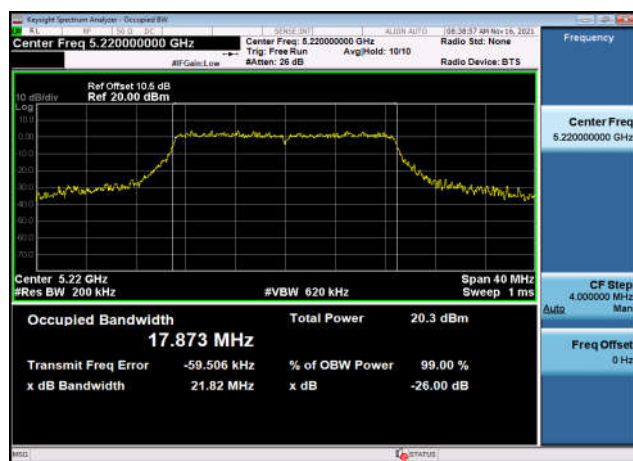
U-NII-2a Occupied 26dB Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5745	22.68	Pass
802.11n (20MHz)	5785	22.26	Pass
802.11n (20MHz)	5825	22.34	Pass
802.11n (40MHz)	5755	44.64	Pass
802.11n (40MHz)	5795	44.75	Pass
802.11ac (20MHz)	5745	21.93	Pass
802.11ac (20MHz)	5785	22.26	Pass
802.11ac (20MHz)	5825	22.20	Pass
802.11ac (40MHz)	5755	44.38	Pass
802.11ac (40MHz)	5795	43.77	Pass
802.11ac (80MHz)	5775	82.15	Pass
802.11a (20MHz)	5745	22.08	Pass
802.11a (20MHz)	5785	22.11	Pass
802.11a (20MHz)	5825	21.91	Pass

Test Plots

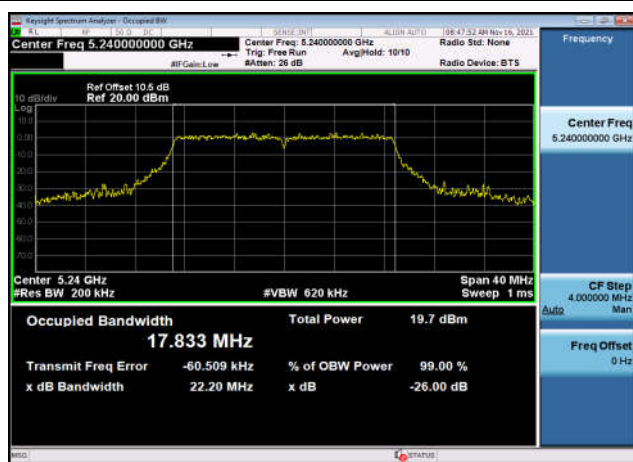
U-NII-1 26dB Bandwidth-802.11n(20MHz)
,5180MHz,Ant1



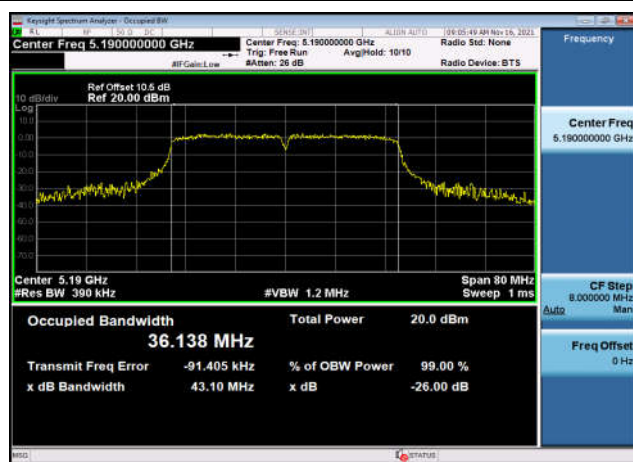
U-NII-1 26dB Bandwidth-802.11n(20MHz)
,5220MHz,Ant1



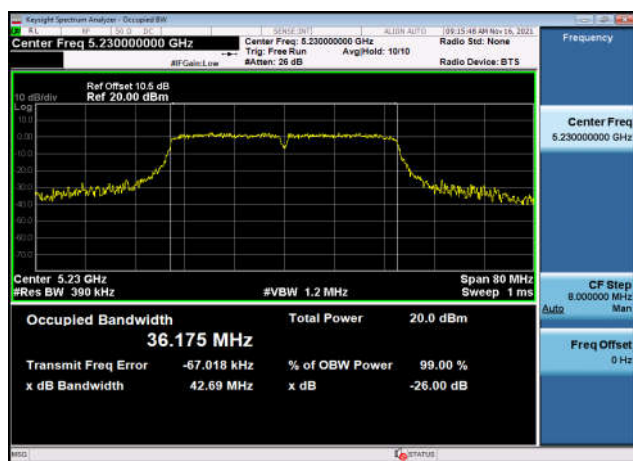
U-NII-1 26dB Bandwidth-802.11n(20MHz)
,5240MHz,Ant1



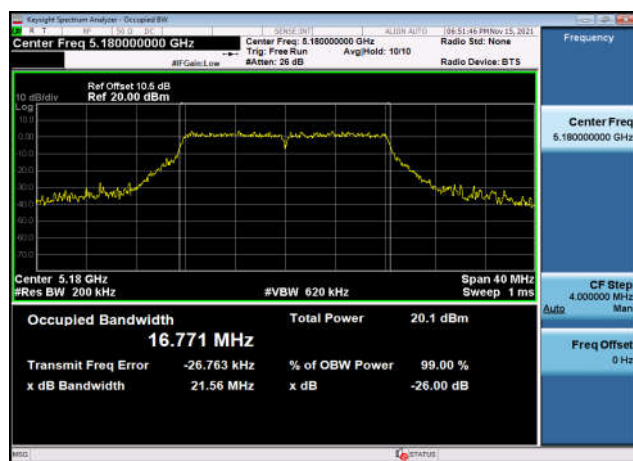
U-NII-1 26dB Bandwidth-802.11n(40MHz)
,5190MHz,Ant1



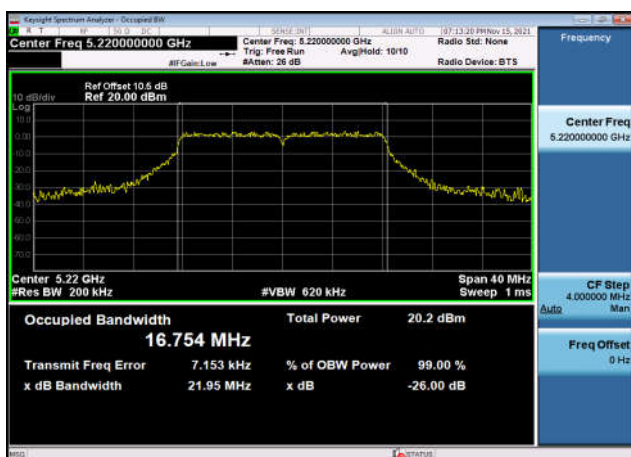
U-NII-1 26dB Bandwidth-802.11n(40MHz)
,5230MHz,Ant1



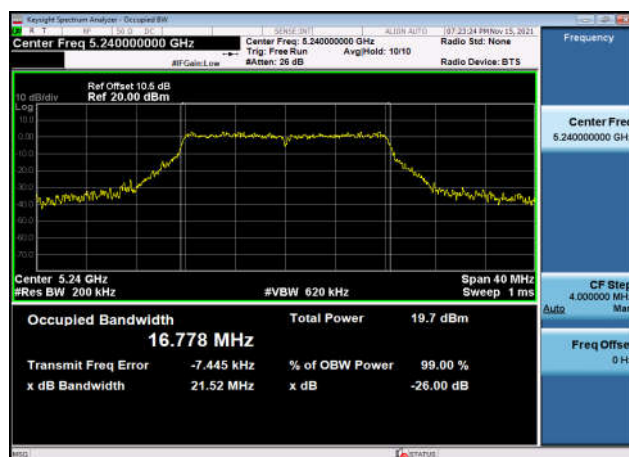
U-NII-1 26dB Bandwidth-802.11a(20MHz)
,5180MHz,Ant1



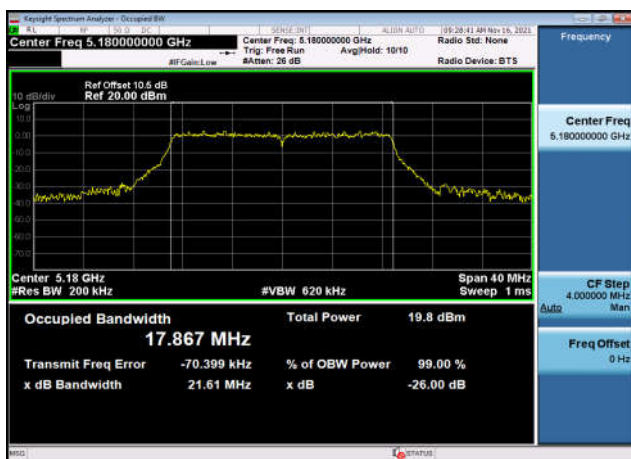
U-NII-1 26dB Bandwidth-802.11a(20MHz)
,5220MHz,Ant1



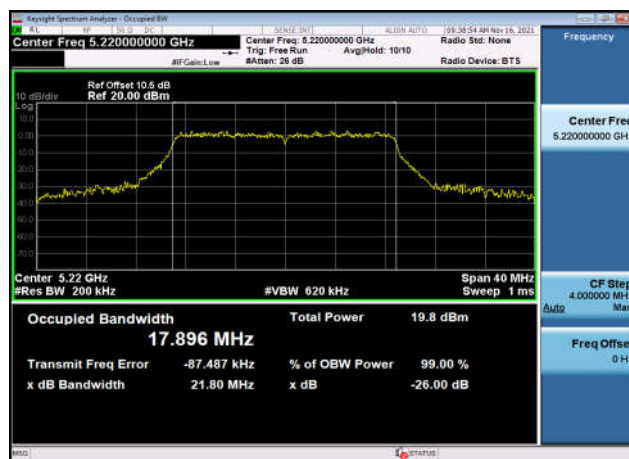
U-NII-1 26dB Bandwidth-802.11a(20MHz)
,5240MHz,Ant1



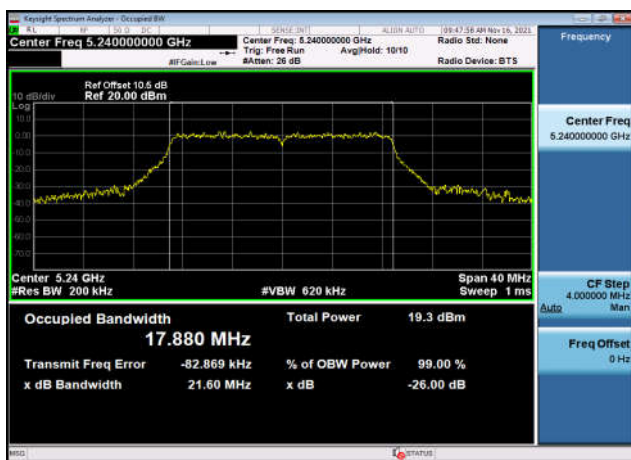
U-NII-1 26dB Bandwidth-802.11ac(20MHz)
,5180MHz,Ant1



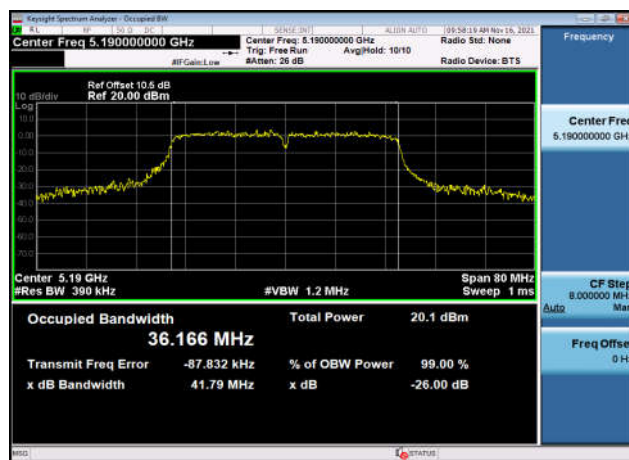
U-NII-1 26dB Bandwidth-802.11ac(20MHz)
,5220MHz,Ant1



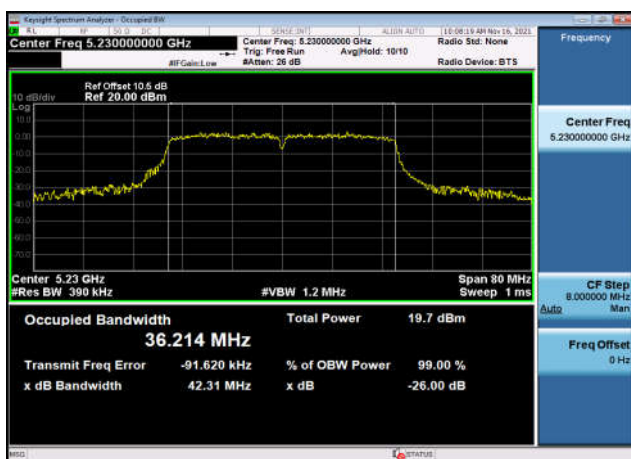
U-NII-1 26dB Bandwidth-802.11ac(20MHz)
,5240MHz,Ant1



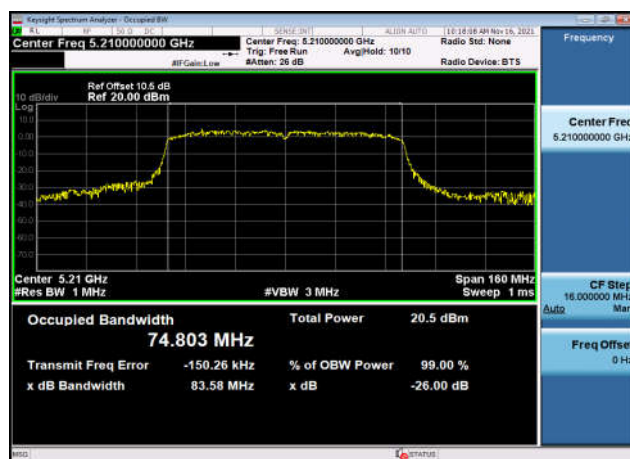
U-NII-1 26dB Bandwidth-802.11ac(40MHz)
,5190MHz,Ant1



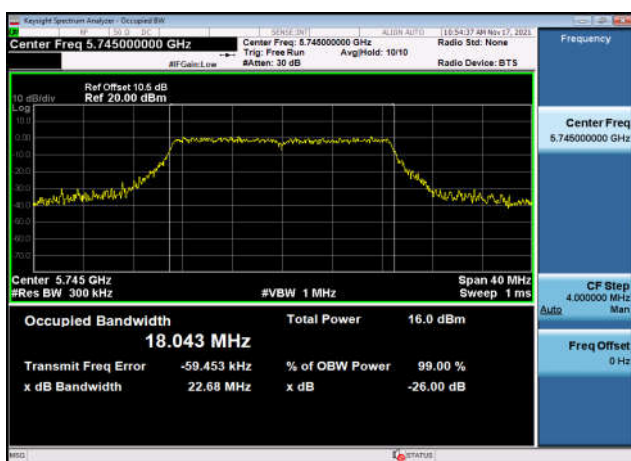
U-NII-1 26dB Bandwidth-802.11ac(40MHz)
,5230MHz,Ant1



U-NII-1 26dB Bandwidth-802.11ac(80MHz)
,5210MHz,Ant1



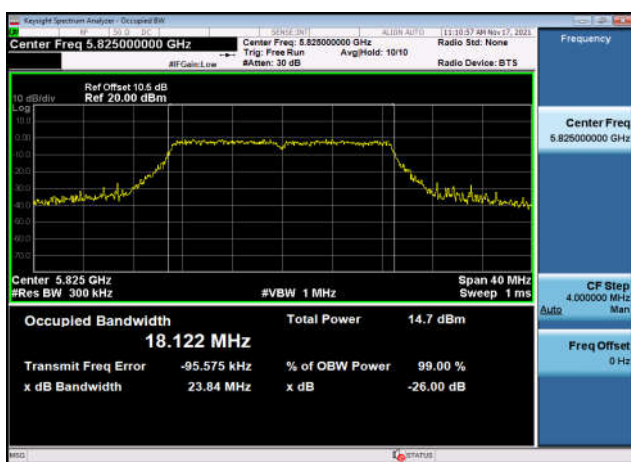
U-NII-3 99% Bandwidth-802.11n(20MHz)
,5745MHz,Ant1



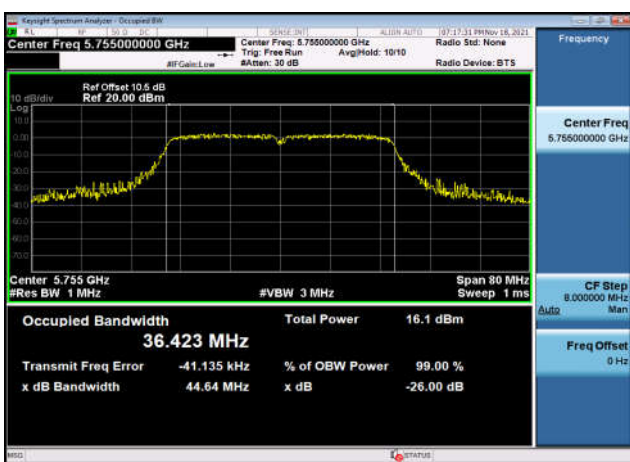
U-NII-3 99% Bandwidth-802.11n(20MHz)
,5785MHz,Ant1



U-NII-3 99% Bandwidth-802.11n(20MHz)
,5825MHz,Ant1

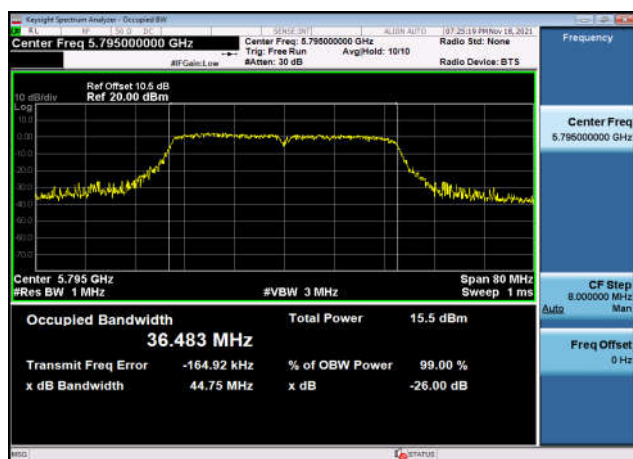


U-NII-3 99% Bandwidth-802.11n(40MHz)
,5755MHz,Ant1



U-NII-3 99% Bandwidth-802.11n(40MHz)
,5795MHz,Ant1

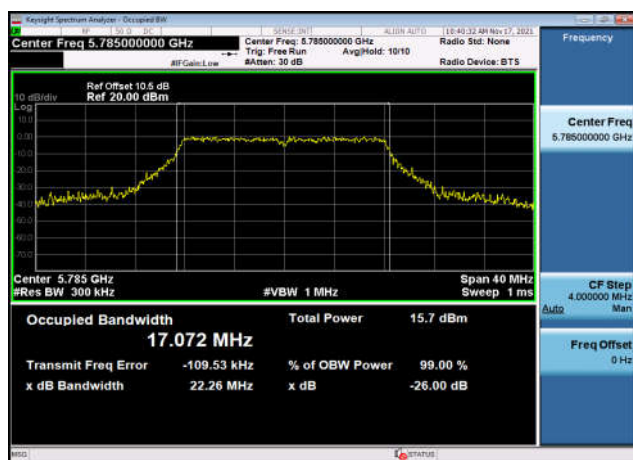
U-NII-3 99% Bandwidth-802.11a(20MHz)
,5745MHz,Ant1



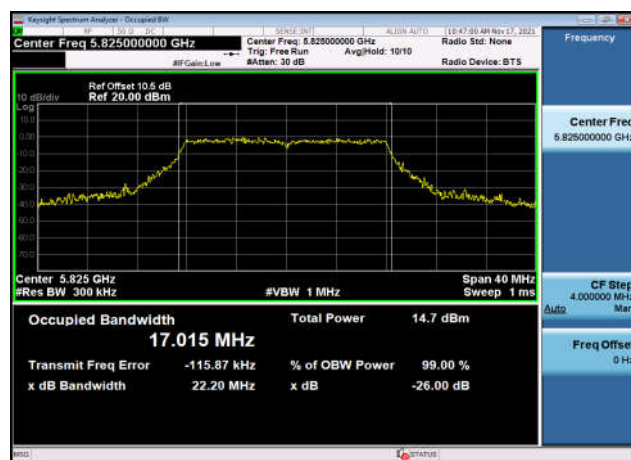
U-NII-3 99% Bandwidth-802.11a(20MHz)
,5785MHz,Ant1



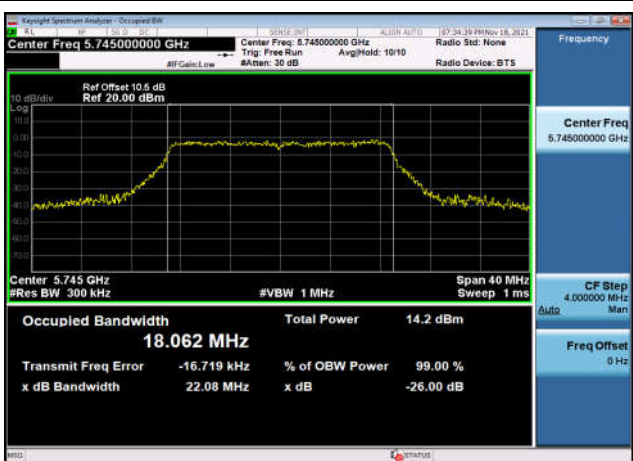
U-NII-3 99% Bandwidth-802.11a(20MHz)
,5825MHz,Ant1



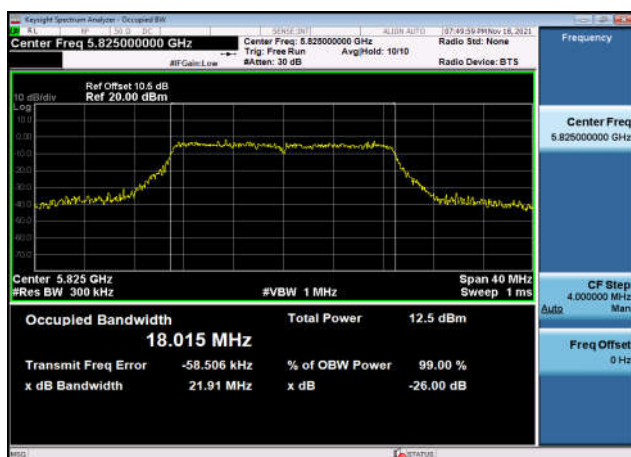
U-NII-3 99% Bandwidth-802.11ac(20MHz)
,5745MHz,Ant1



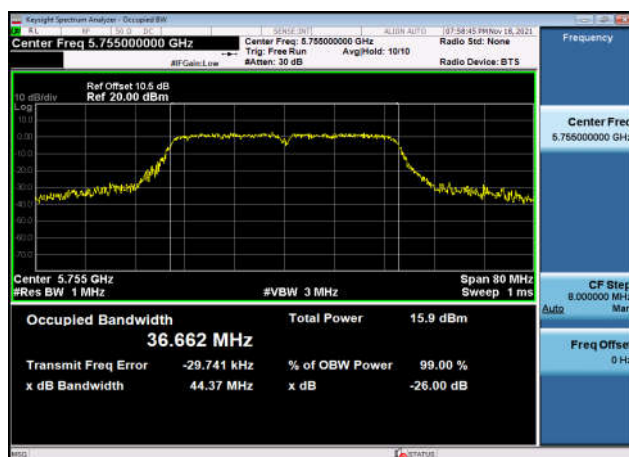
U-NII-3 99% Bandwidth-802.11ac(20MHz)
,5785MHz,Ant1



U-NII-3 99% Bandwidth-802.11ac(20MHz)
,5825MHz,Ant1



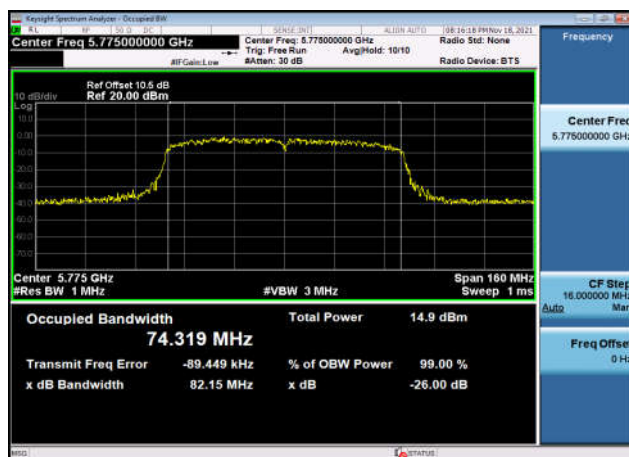
U-NII-3 99% Bandwidth-802.11ac(40MHz)
,5755MHz,Ant1



U-NII-3 99% Bandwidth-802.11ac(40MHz)
,5795MHz,Ant1



U-NII-3 99% Bandwidth-802.11ac(80MHz)
,5775MHz,Ant1





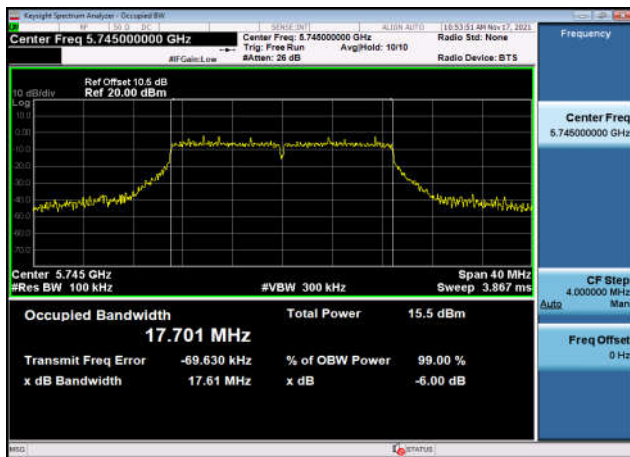
6dB Down Bandwidth

Test Result and Data

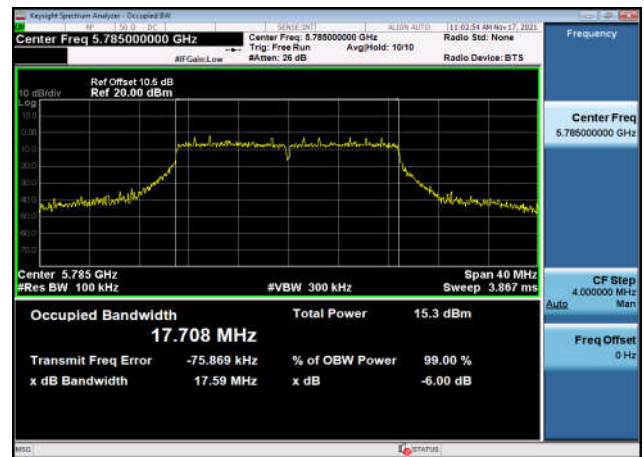
U-NII-3 Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Min Limit (KHz)	Result
802.11n (20MHz)	5745	17.61	500	Pass
802.11n (20MHz)	5785	17.59	500	Pass
802.11n (20MHz)	5825	17.59	500	Pass
802.11n (40MHz)	5755	35.18	500	Pass
802.11n (40MHz)	5795	35.14	500	Pass
802.11ac (20MHz)	5745	17.64	500	Pass
802.11ac (20MHz)	5785	17.59	500	Pass
802.11ac (20MHz)	5825	17.57	500	Pass
802.11ac (40MHz)	5755	35.16	500	Pass
802.11ac (40MHz)	5795	34.43	500	Pass
802.11ac (80MHz)	5775	72.61	500	Pass
802.11a (20MHz)	5745	16.40	500	Pass
802.11a (20MHz)	5785	16.41	500	Pass
802.11a (20MHz)	5825	16.38	500	Pass

Test Plots

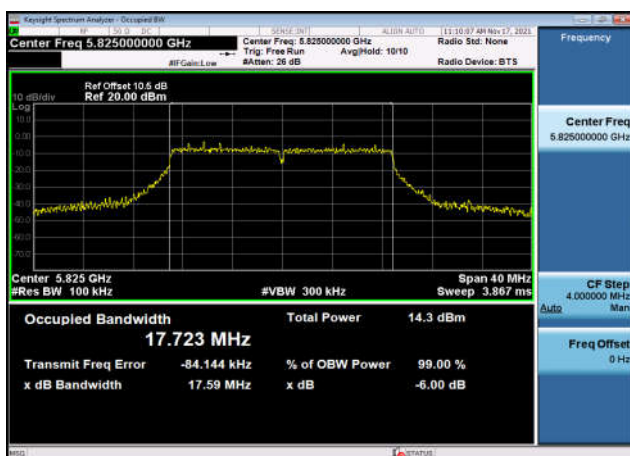
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5745MHz,Ant1



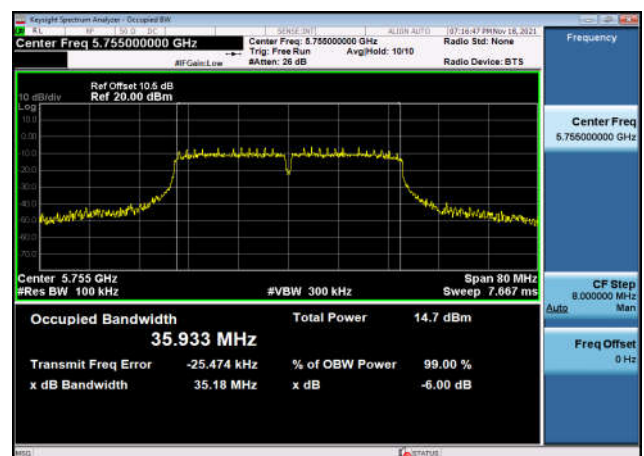
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5785MHz,Ant1



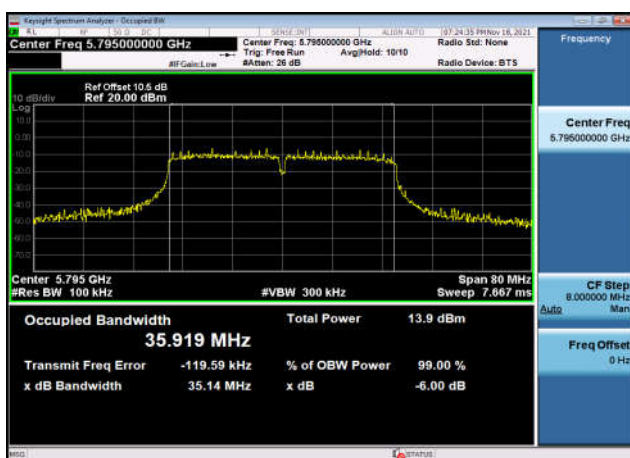
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5825MHz,Ant1



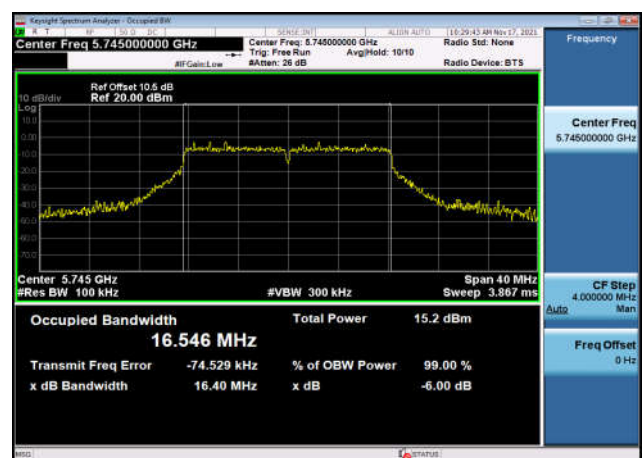
U-NII-3 6dB Bandwidth-802.11n(40MHz)
,5755MHz,Ant1



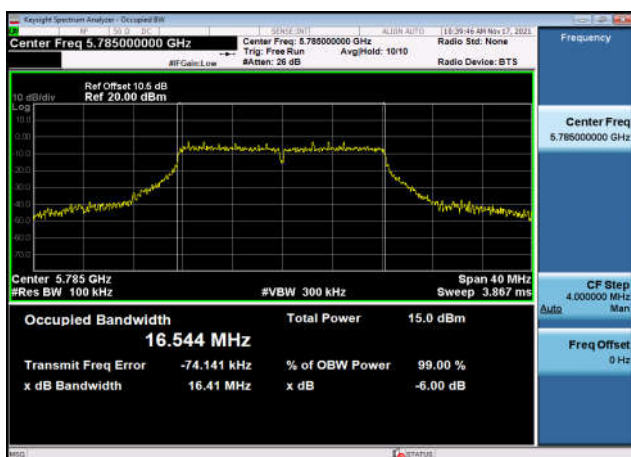
U-NII-3 6dB Bandwidth-802.11n(40MHz)
,5795MHz,Ant1



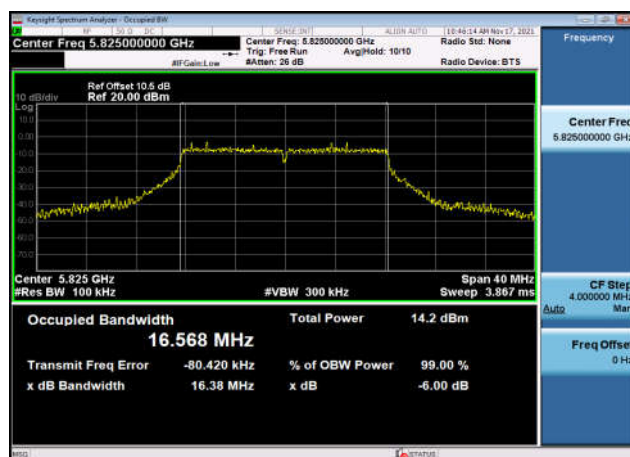
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5745MHz,Ant1



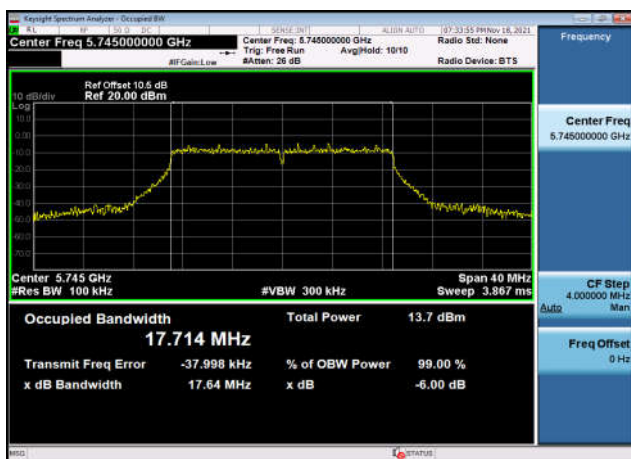
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5785MHz,Ant1



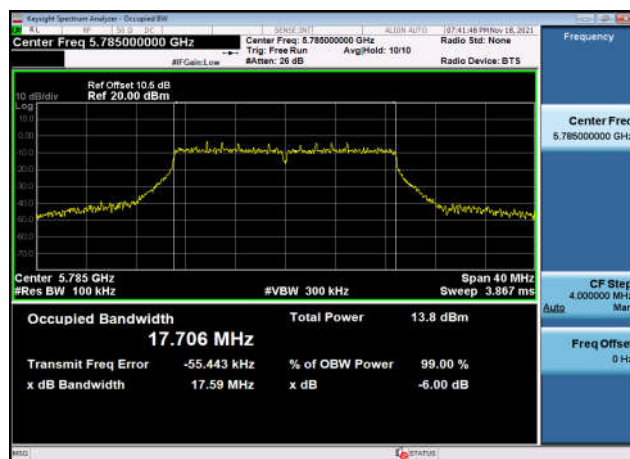
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5825MHz,Ant1



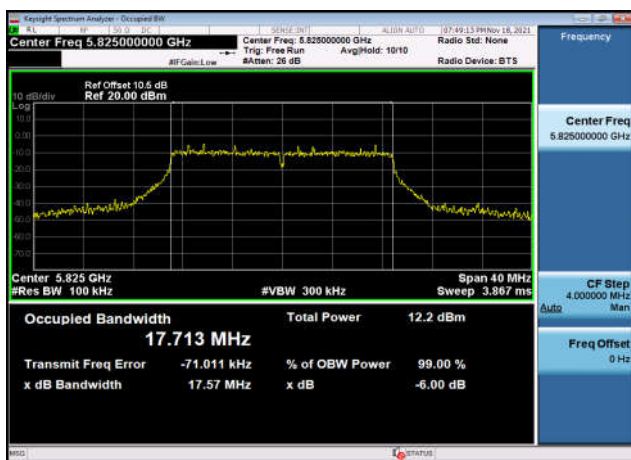
U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5745MHz,Ant1



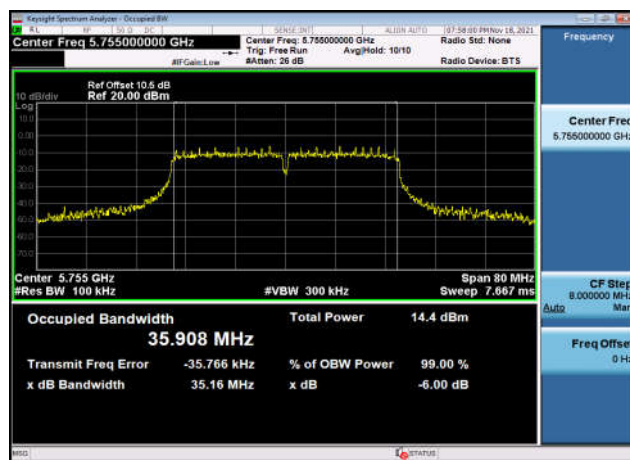
U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5785MHz,Ant1



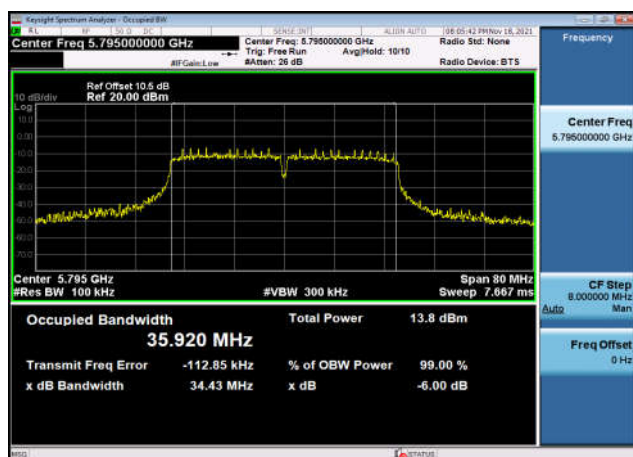
U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5825MHz,Ant1



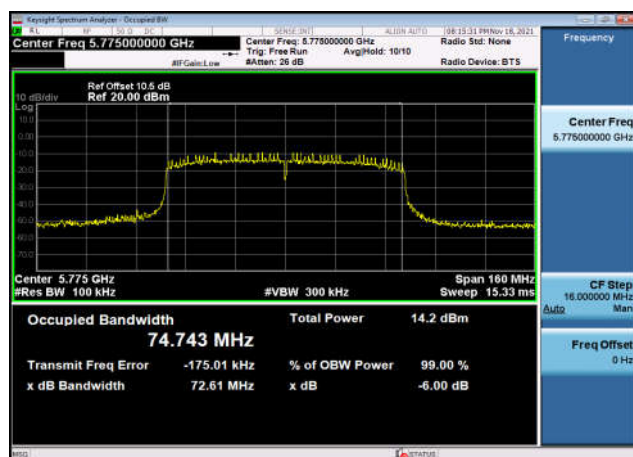
U-NII-3 6dB Bandwidth-802.11ac(40MHz)
,5755MHz,Ant1



U-NII-3 6dB Bandwidth-802.11ac(40MHz)
,5795MHz,Ant1



U-NII-3 6dB Bandwidth-802.11ac(80MHz)
,5775MHz,Ant1



99% Occupied Bandwidth

Test Result and Data

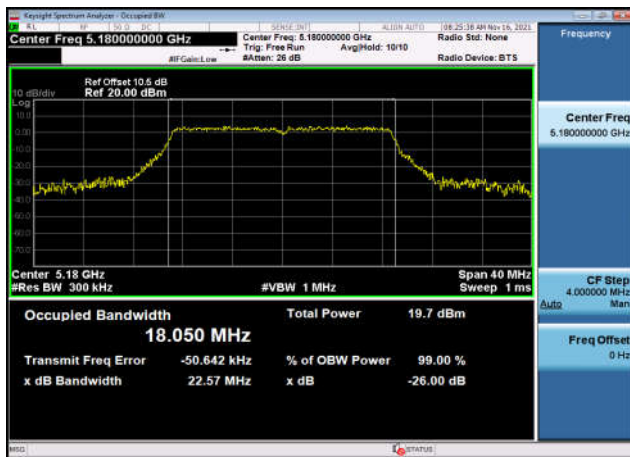
U-NII-1 99% Occupied Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5180	18.050	Pass
802.11n (20MHz)	5220	18.084	Pass
802.11n (20MHz)	5240	18.034	Pass
802.11n (40MHz)	5190	36.521	Pass
802.11n (40MHz)	5230	36.589	Pass
802.11ac (20MHz)	5180	18.041	Pass
802.11ac (20MHz)	5220	18.129	Pass
802.11ac (20MHz)	5240	18.056	Pass
802.11ac (40MHz)	5190	36.644	Pass
802.11ac (40MHz)	5230	36.854	Pass
802.11ac (80MHz)	5210	74.755	Pass
802.11a (20MHz)	5180	17.029	Pass
802.11a (20MHz)	5220	17.094	Pass
802.11a (20MHz)	5240	17.084	Pass



U-NII-3 99% Occupied Bandwidth			
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5745	18.043	Pass
802.11n (20MHz)	5785	17.995	Pass
802.11n (20MHz)	5825	18.122	Pass
802.11n (40MHz)	5755	36.423	Pass
802.11n (40MHz)	5795	36.483	Pass
802.11ac (20MHz)	5745	18.062	Pass
802.11ac (20MHz)	5785	18.059	Pass
802.11ac (20MHz)	5825	18.015	Pass
802.11ac (40MHz)	5755	36.662	Pass
802.11ac (40MHz)	5795	36.453	Pass
802.11ac (80MHz)	5775	74.319	Pass
802.11a (20MHz)	5745	16.905	Pass
802.11a (20MHz)	5785	17.072	Pass
802.11a (20MHz)	5825	17.015	Pass

Test Plots

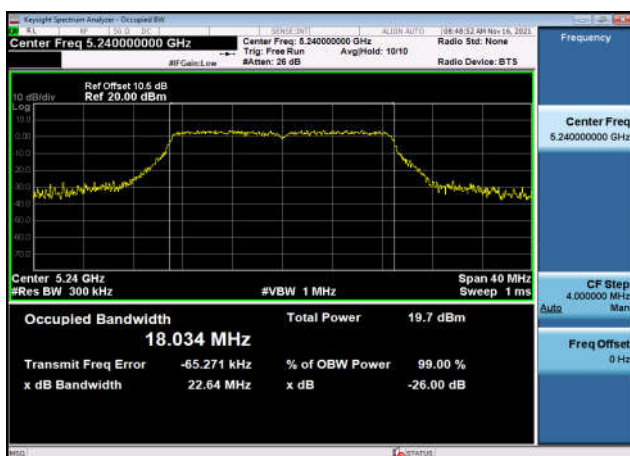
U-NII-1 99% Bandwidth-802.11n(20MHz)
,5180MHz,Ant1



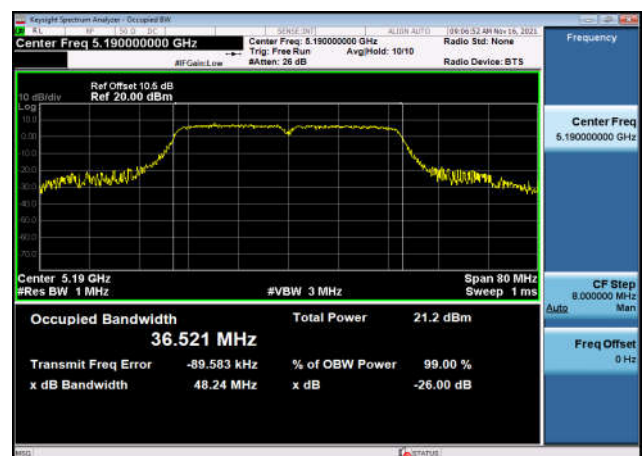
U-NII-1 99% Bandwidth-802.11n(20MHz)
,5220MHz,Ant1



U-NII-1 99% Bandwidth-802.11n(20MHz)
,5240MHz,Ant1



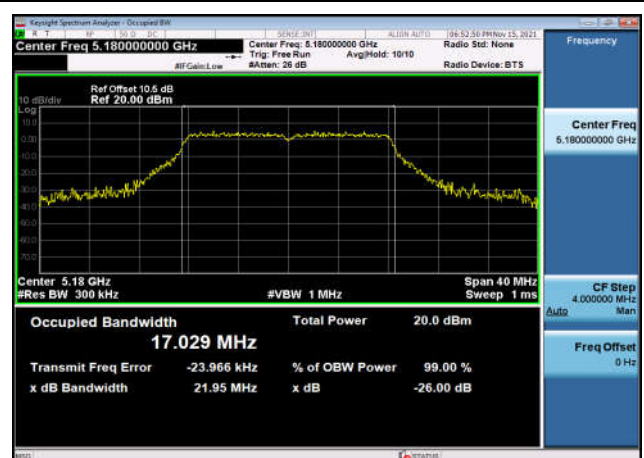
U-NII-1 99% Bandwidth-802.11n(40MHz)
,5190MHz,Ant1



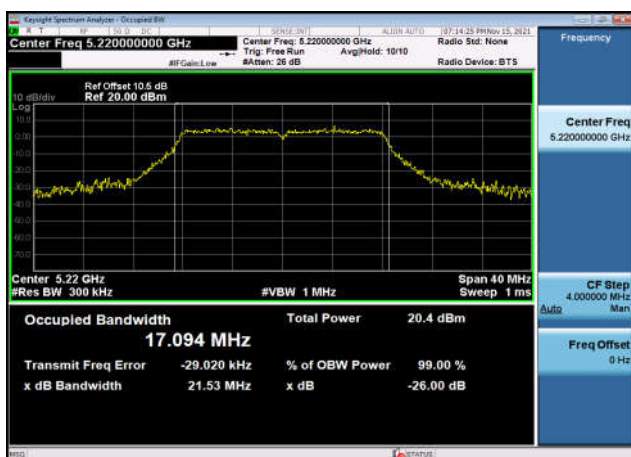
U-NII-1 99% Bandwidth-802.11n(40MHz)
,5230MHz,Ant1



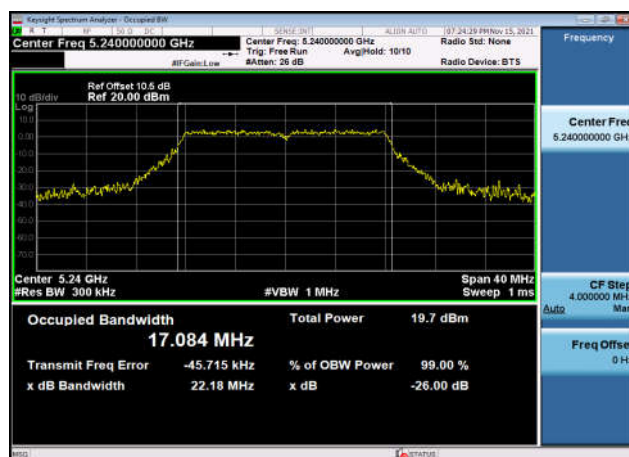
U-NII-1 99% Bandwidth-802.11a(20MHz)
,5180MHz,Ant1



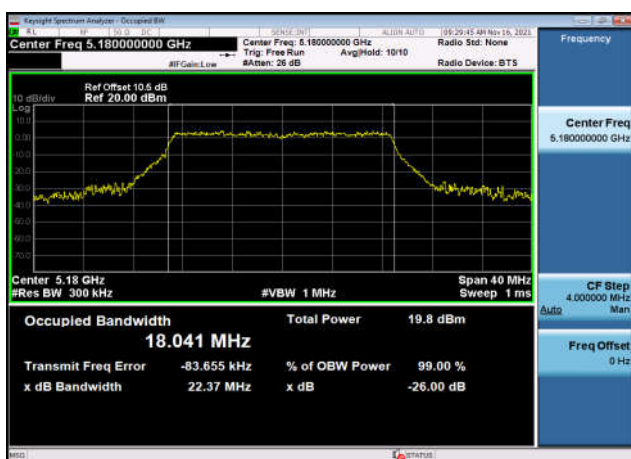
U-NII-1 99% Bandwidth-802.11a(20MHz)
,5220MHz,Ant1



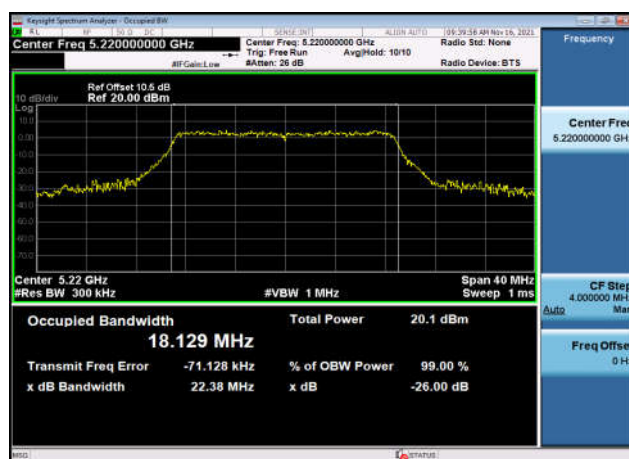
U-NII-1 99% Bandwidth-802.11a(20MHz)
,5240MHz,Ant1



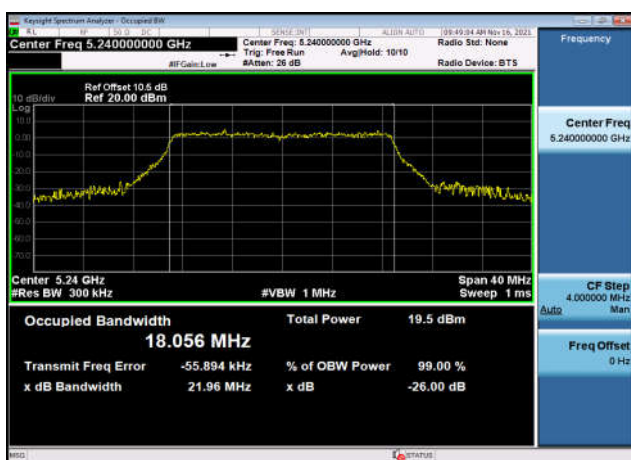
U-NII-1 99% Bandwidth-802.11ac(20MHz)
,5180MHz,Ant1



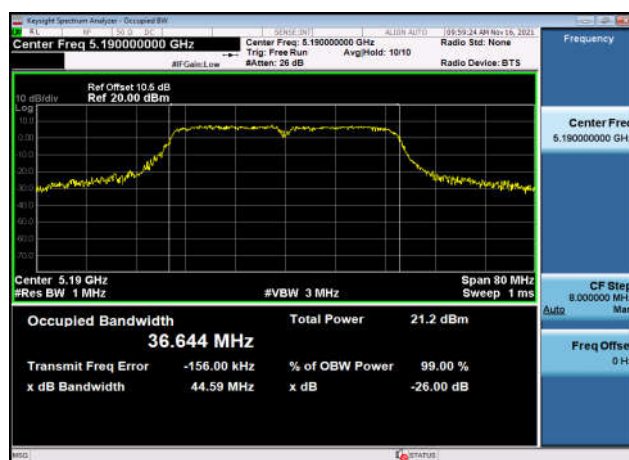
U-NII-1 99% Bandwidth-802.11ac(20MHz)
,5220MHz,Ant1



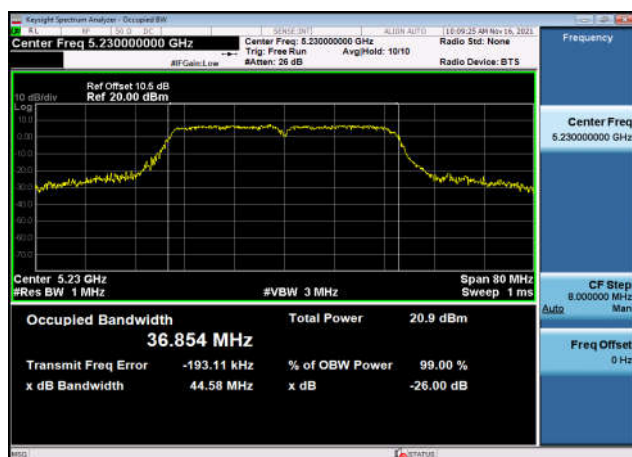
U-NII-1 99% Bandwidth-802.11ac(20MHz)
,5240MHz,Ant1



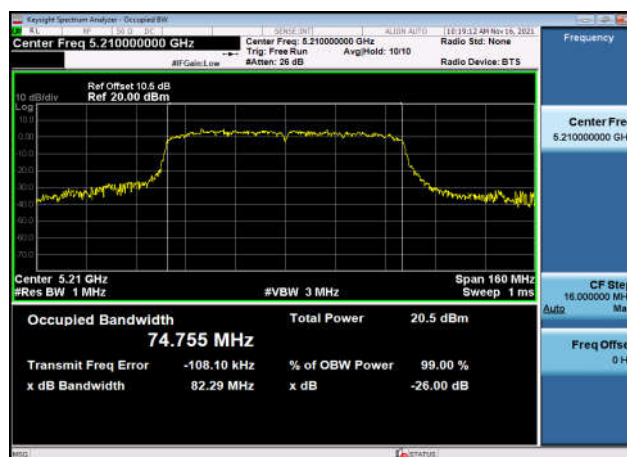
U-NII-1 99% Bandwidth-802.11ac(40MHz)
,5190MHz,Ant1



U-NII-1 99% Bandwidth-802.11ac(40MHz)
,5230MHz,Ant1



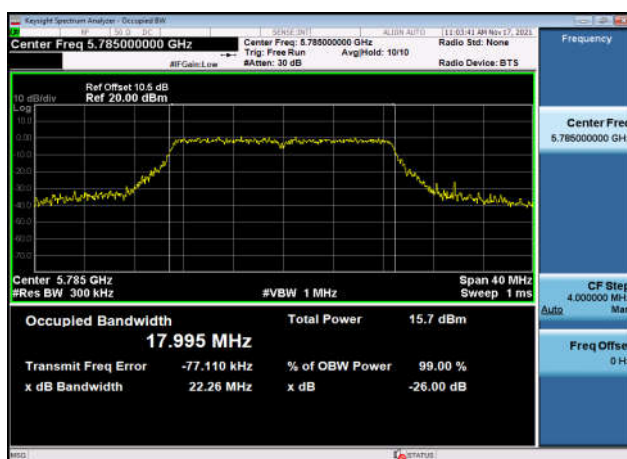
U-NII-1 99% Bandwidth-802.11ac(80MHz)
,5210MHz,Ant1



U-NII-3 99% Bandwidth-802.11n(20MHz)
,5745MHz,Ant1



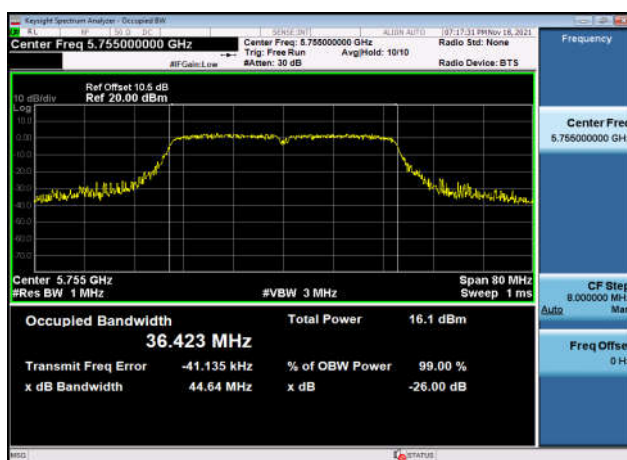
U-NII-3 99% Bandwidth-802.11n(20MHz)
,5785MHz,Ant1



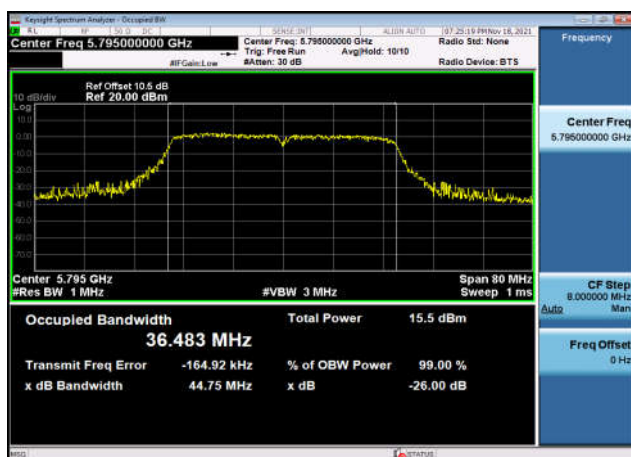
U-NII-3 99% Bandwidth-802.11n(20MHz)
,5825MHz,Ant1



U-NII-3 99% Bandwidth-802.11n(40MHz)
,5755MHz,Ant1



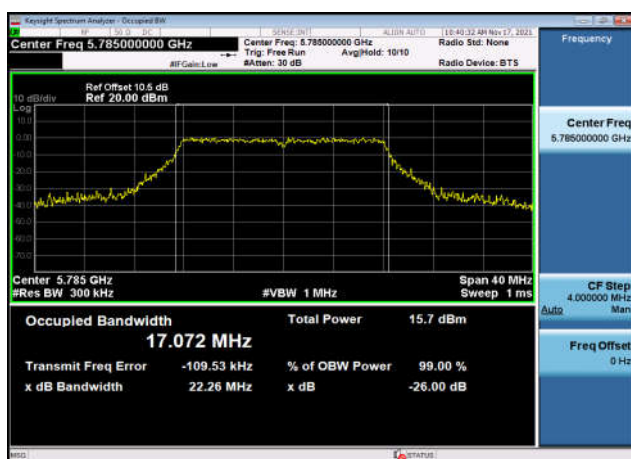
U-NII-3 99% Bandwidth-802.11n(40MHz)
,5795MHz,Ant1



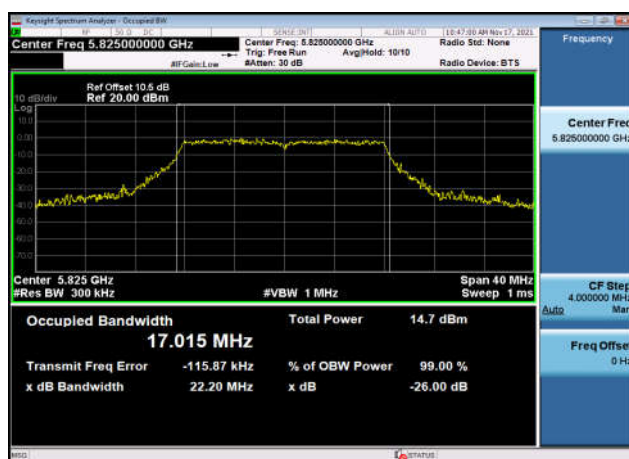
U-NII-3 99% Bandwidth-802.11a(20MHz)
,5745MHz,Ant1



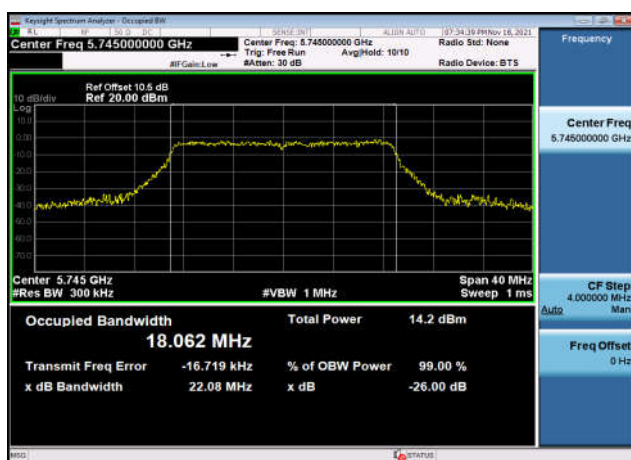
U-NII-3 99% Bandwidth-802.11a(20MHz)
,5785MHz,Ant1



U-NII-3 99% Bandwidth-802.11a(20MHz)
,5825MHz,Ant1



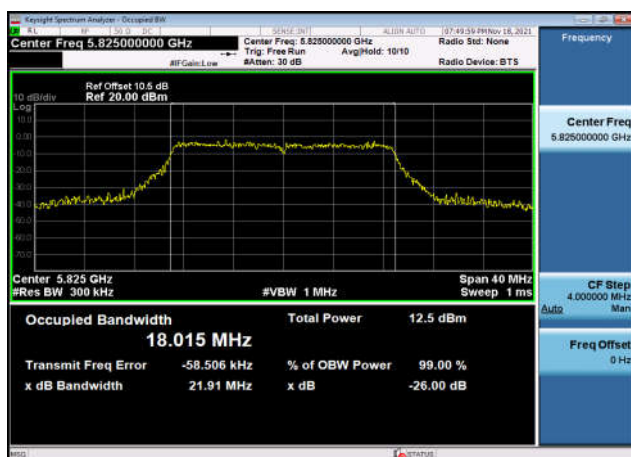
U-NII-3 99% Bandwidth-802.11ac(20MHz)
,5745MHz,Ant1



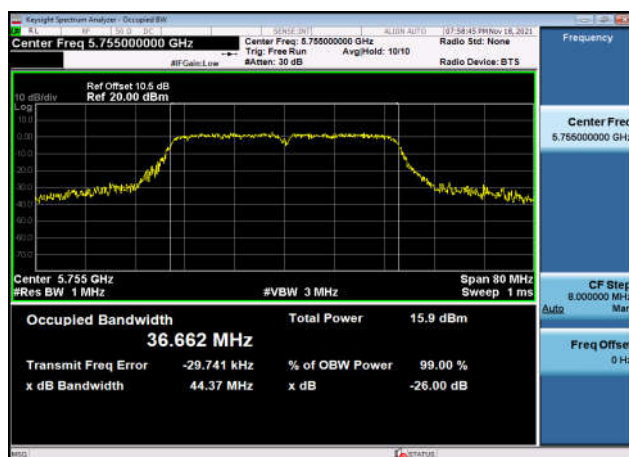
U-NII-3 99% Bandwidth-802.11ac(20MHz)
,5785MHz,Ant1



U-NII-3 99% Bandwidth-802.11ac(20MHz)
,5825MHz,Ant1



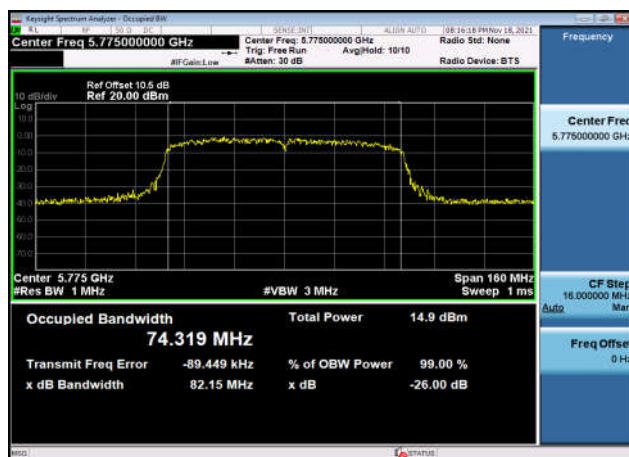
U-NII-3 99% Bandwidth-802.11ac(40MHz)
,5755MHz,Ant1



U-NII-3 99% Bandwidth-802.11ac(40MHz)
,5795MHz,Ant1



U-NII-3 99% Bandwidth-802.11ac(80MHz)
,5775MHz,Ant1



Frequency Stability

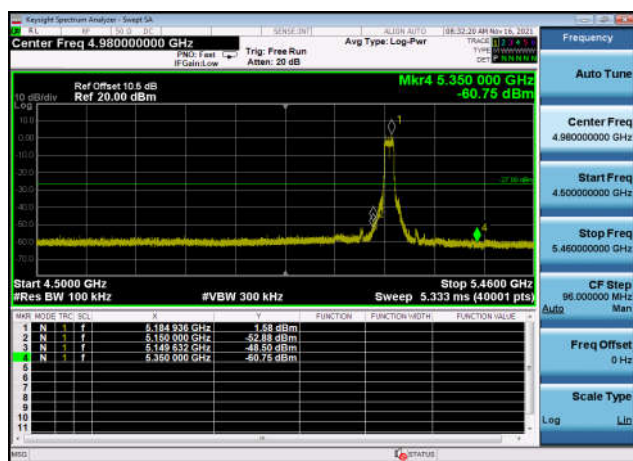
U-NII-1 Centre Frequency						
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Test Result
802.11n (20MHz)	5180	Ant1	5171.053	5188.856	5179.954	Pass
802.11n (20MHz)	5220	Ant1	5211.040	5228.858	5219.949	Pass
802.11n (20MHz)	5240	Ant1	5231.041	5248.847	5239.944	Pass
802.11n (40MHz)	5190	Ant1	5171.774	5208.120	5189.947	Pass
802.11n (40MHz)	5230	Ant1	5211.762	5248.132	5229.947	Pass
802.11ac (20MHz)	5180	Ant1	5171.048	5188.871	5179.959	Pass
802.11ac (20MHz)	5220	Ant1	5211.028	5228.861	5219.945	Pass
802.11ac (20MHz)	5240	Ant1	5231.043	5248.876	5239.960	Pass
802.11ac (40MHz)	5190	Ant1	5171.763	5208.125	5189.944	Pass
802.11ac (40MHz)	5230	Ant1	5211.756	5248.131	5229.943	Pass
802.11ac (80MHz)	5210	Ant1	5172.323	5247.537	5209.930	Pass
802.11a (20MHz)	5180	Ant1	5171.671	5188.259	5179.965	Pass
802.11a (20MHz)	5220	Ant1	5211.678	5228.264	5219.971	Pass
802.11a (20MHz)	5240	Ant1	5231.688	5248.259	5239.973	Pass



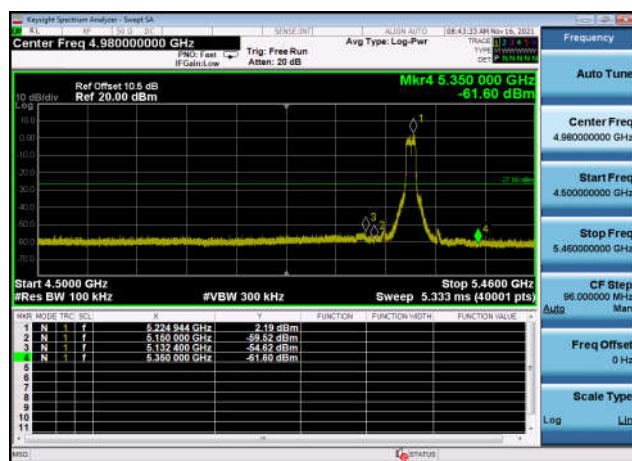
U-NII-3 Centre Frequency						
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Test Result
802.11n (20MHz)	5745	Ant1	5736.025	5753.853	5744.939	Pass
802.11n (20MHz)	5785	Ant1	5776.048	5793.832	5784.940	Pass
802.11n (20MHz)	5825	Ant1	5816.039	5833.868	5824.953	Pass
802.11n (40MHz)	5755	Ant1	5736.799	5773.156	5754.978	Pass
802.11n (40MHz)	5795	Ant1	5776.756	5813.132	5794.944	Pass
802.11ac (20MHz)	5745	Ant1	5736.039	5753.882	5744.960	Pass
802.11ac (20MHz)	5785	Ant1	5776.033	5793.855	5784.944	Pass
802.11ac (20MHz)	5825	Ant1	5816.035	5833.864	5824.950	Pass
802.11ac (40MHz)	5755	Ant1	5736.798	5773.152	5754.975	Pass
802.11ac (40MHz)	5795	Ant1	5776.724	5813.141	5794.933	Pass
802.11ac (80MHz)	5775	Ant1	5737.427	5812.510	5774.968	Pass
802.11a (20MHz)	5745	Ant1	5736.633	5753.226	5744.930	Pass
802.11a (20MHz)	5785	Ant1	5776.646	5793.248	5784.947	Pass
802.11a (20MHz)	5825	Ant1	5816.642	5833.220	5824.931	Pass

Conducted Band Edges and spurious emission

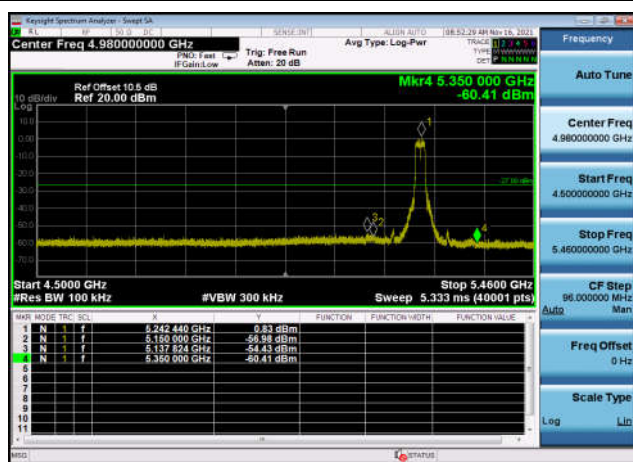
U-NII-1 ,Plot 1,Band Edge-802.11n(20M
Hz),5180MHz,Ant1



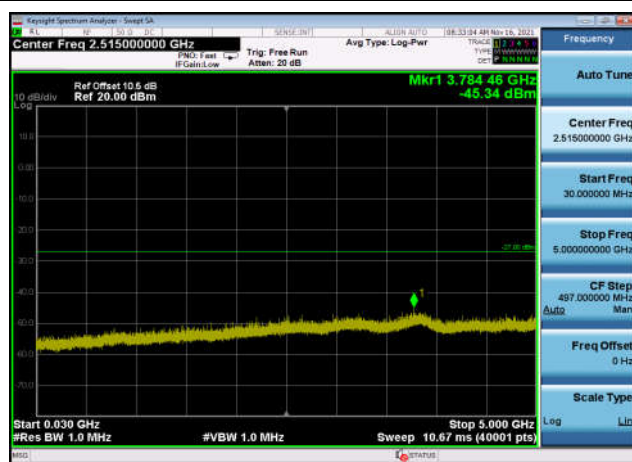
U-NII-1 ,Plot 1,Band Edge-802.11n(20M
Hz),5220MHz,Ant1



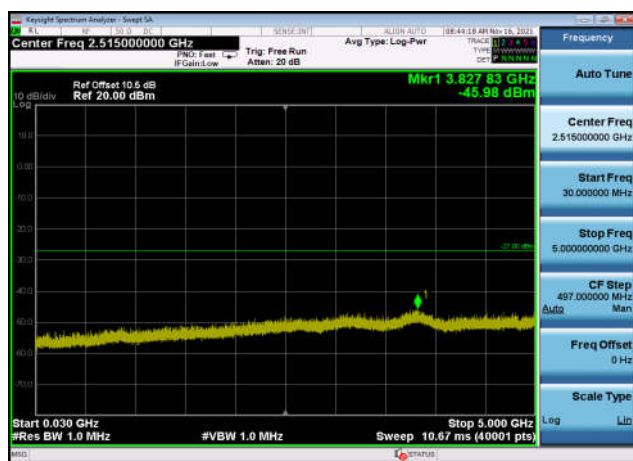
U-NII-1 ,Plot 1,Band Edge-802.11n(20M
Hz),5240MHz,Ant1



U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n
(20MHz),5180MHz,Ant1



U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n
(20MHz),5220MHz,Ant1



U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n
(20MHz),5240MHz,Ant1

