



RF TEST REPORT

Report No.: SET2021-03280

Product Name: AI Safety System

FCC ID: NCI-M360-M500

Model No. : Mobile 360 M500

Applicant: VIA TECHNOLOGIES, INC.

Address: 8F., NO.535, CHUNG CHEN RD., XINDIAN DIST., NEW
TAIPEI CITY 231, TAIWAN (R.O.C.)

Dates of Testing: 03/01/2021 —03/22/2021

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No. 43 Shahe Road, Xili Street,
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Test Report

Product Name : AI Safety System

Brand Name : VIA

Trade Name : VIA

Applicant : VIA TECHNOLOGIES, INC.

Applicant Address : 8F., NO.535, CHUNG CHEN RD., XINDIAN DIST., NEW
TAIPEI CITY 231, TAIWAN (R.O.C.)

Manufacturer : VIA TECHNOLOGIES, INC.

Manufacturer Address : 8F., NO.535, CHUNG CHEN RD., XINDIAN DIST., NEW
TAIPEI CITY 231, TAIWAN (R.O.C.)

Test Standards : 47 CFR Part 15 Subpart E 15.407

Test Result : PASS

Tested by :

Vincent

2021.03.22

Vincent, Test Engineer

Reviewed by :

Chris You

2021.03.22

Chris You, Senior Engineer

Approved by :

Shuangwen Zhang

2021.03.22

Shuangwen Zhang, Manager

TABLE OF CONTENTS

RF TEST REPORT	1
1. GENERAL INFORMATION	4
1.1. EUT Description	4
1.2. Test Standards and Results	5
1.3. Channel List	6
1.4. Test environment and mode	7
1.5. EUT Operation Test Setup	8
1.6. Power level setup in software	9
1.7. Laboratory Facilities	10
2. TEST REQUIREMENTS	11
2.1. Antenna requirement	11
2.2. Output Power	12
2.3. Emission Bandwidth	14
2.4. Power spectral density (PSD)	16
2.5. Frequency Stability	18
2.6. Radiated Band Edge and Spurious Emission	20
2.7. Conducted Emission	54
3. LIST OF MEASURING EQUIPMENT	58
4. UNCERTAINTY OF EVALUATION	59
APPENDIX A	60

Change History		
Issue	Date	Reason for change
1.0	2021.03.22	First edition

1. General Information

1.1. EUT Description

EUT Type	AI Safety System
EUT supports Radios application	WLAN5.0GHz 802.11a/n (HT20/40)/ac(VHT20/40/80)
Product Type	vehicle-mounted
TPC	Not Support
Modulation Type	CCK, DQPSK, DBPSK for DSSS 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 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 433.3Mbps
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
Antenna Type	External
Antenna Gain	2.37dBi
Output Power (Max.)	Band UNII-1: 12.88 dBm Band UNII-3: 12.86dBm

Note: The antenna gain and RF adapter/cable insert loss provided by manufacture.

1.2. Test Standards and Results

The objective of the report is to perform testing according to below standards for the EUT FCC Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E § 15.407	Radio Frequency Devices
2	789033 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)	Maximum Conducted Output Power	PASS
3	15.407(a)	Emission Bandwidth(26 dB Bandwidth)	PASS
	15.407(e)	Emission Bandwidth(6 dB Bandwidth)	PASS
	-	Emission Bandwidth(99%)	PASS
4	15.407(a)	Power spectral density (PSD)	PASS
5	15.207	AC Power Line Conducted Emission	PASS
6	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

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 AC20 Mode / CH36, CH44, CH48 (UNII-1)
Mode 3	TX AC40 Mode / CH38, CH46 (UNII-1)
Mode 4	TX AC80 Mode / CH42 (UNII-1)
Mode 5	TX A Mode / CH149, CH157, CH165 (UNII-3)
Mode 6	TX AC20 Mode / CH149, CH157, CH165 (UNII-3)
Mode 7	TX AC40 Mode / CH151, CH159 (UNII-3)
Mode 8	TX AC80 Mode / CH155 (UNII-3)

1.5. EUT Operation Test Setup

For RF test items, an engineering test program was provided and enable to make EUT transmitting.

1.6. Power level setup in software

Power level setup in software for 5G wifi			
UNII-1			
Frequency (MHz)	5180	5220	5240
A mode	15	15	15
Frequency (MHz)	5180	5220	5240
N20 mode	15	15	15
Frequency (MHz)	5190	5230	\
N40 mode	15	15	\
Frequency (MHz)	5180	5220	5240
AC20 mode	15	15	15
Frequency (MHz)	5190	5230	\
AC40 mode	15	15	\
Frequency (MHz)	5210	\	\
AC80 mode	15	\	\
Power level setup in software for 5G wifi			
UNII-3			
Frequency (MHz)	5745	5785	5825
A mode	14	14	14
Frequency (MHz)	5745	5785	5825
N20 mode	13	13	13
Frequency (MHz)	5755	5795	\
N40 mode	13	13	\
Frequency (MHz)	5745	5785	5825
AC20 mode	13	13	13
Frequency (MHz)	5755	5795	\
AC40 mode	13	13	\
Frequency (MHz)	5775	\	\
AC80 mode	13	\	\

1.7. Laboratory Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN1283

CCIC Southern Testing 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: CN1283, valid time is until June 30th, 2021.

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 June 30th, 2021.

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

2. Test 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 Type	External
EUT	AI Safety System
Operating frequency range	5180-5320MHz,5745-5825 MHz
Antenna Gain	2.37dBi(Maximum)

2.1.3. Result: comply

The EUT has a permanently and irreplaceable attached antenna. 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:

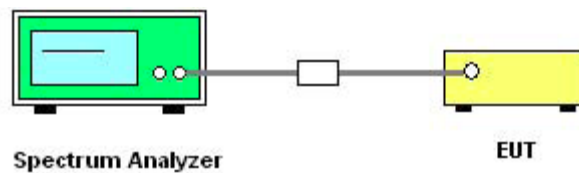
Band	EUT Category	Limit
U-NII-1	☐ Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21dBm) at any elevation angle above 30 degrees as measured from the horizon)
	☐ Fixed point-to-point Access device	1 Watt (30 dBm)
	☐ Indoor Access Point	1 Watt (30 dBm)
	☒ Mobile and portable client device	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 v02r01 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

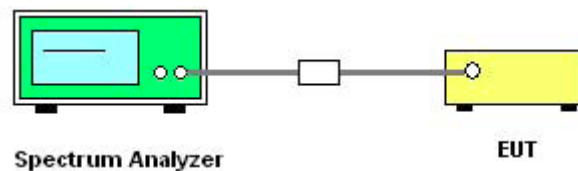
There is no limit bandwidth for bandU-NII-1, U-NII-2A and U-NII-2C.

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 v02r01.

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 function to find the 6dB 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)

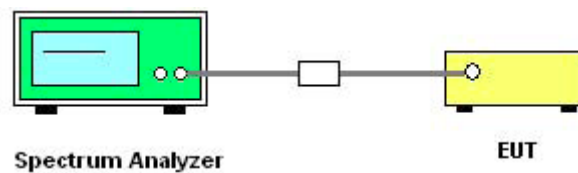
The maximum power spectral density should not exceed:

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 v02r01.
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, U-NII-2C 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

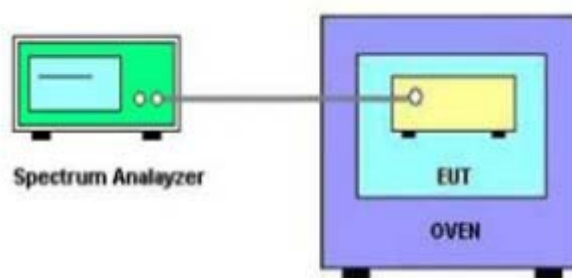
2.5.1. Limit

FCC 15.407(b) Frequency Stability	
Frequency Band(MHz)	Limit
5150~5250	Specified in the user's manual
5250~5350	
5470~5725	
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 -10 to 55 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 V02r01	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
5250 - 5350	Outside of the 5.15~5.35 GHz		
5470 -5725	Outside of the 5.47~5.725 GHz		

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:

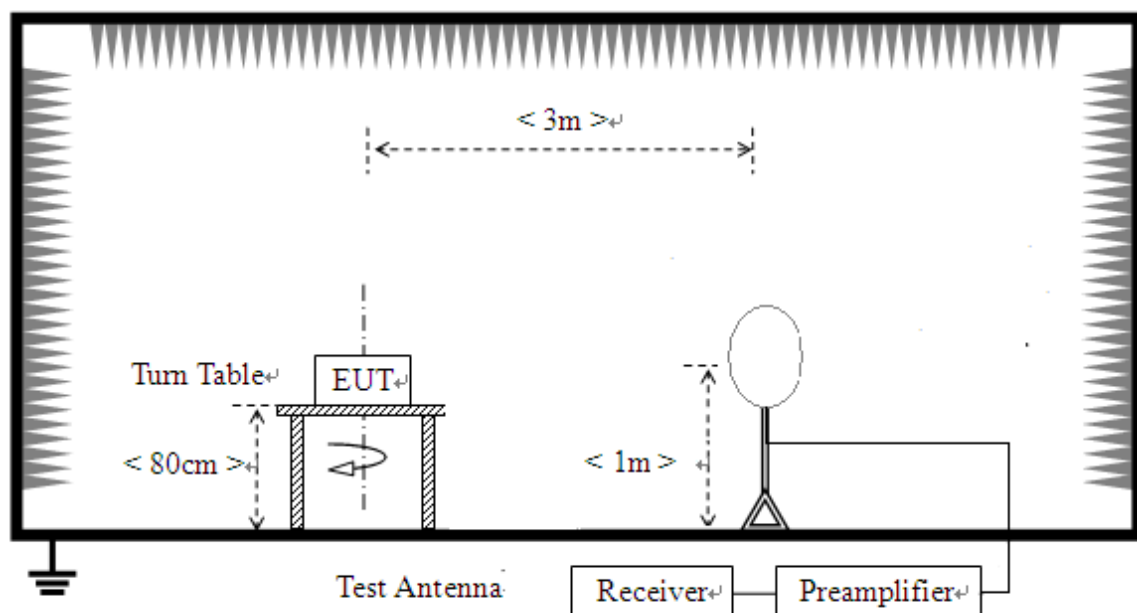
$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

2.6.2. Measuring Instruments

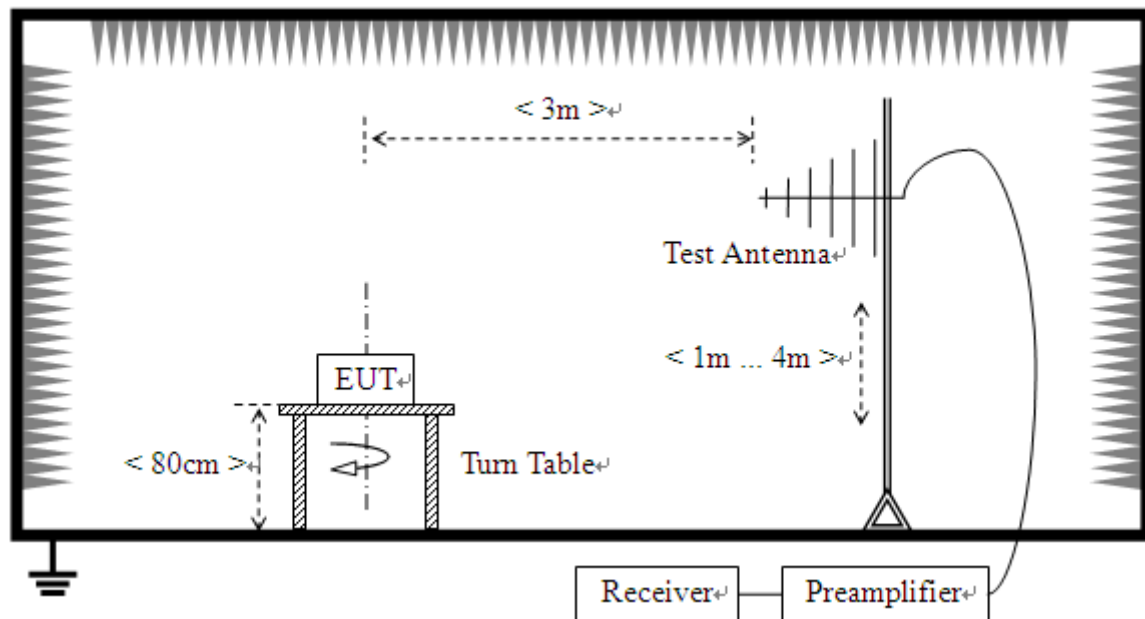
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

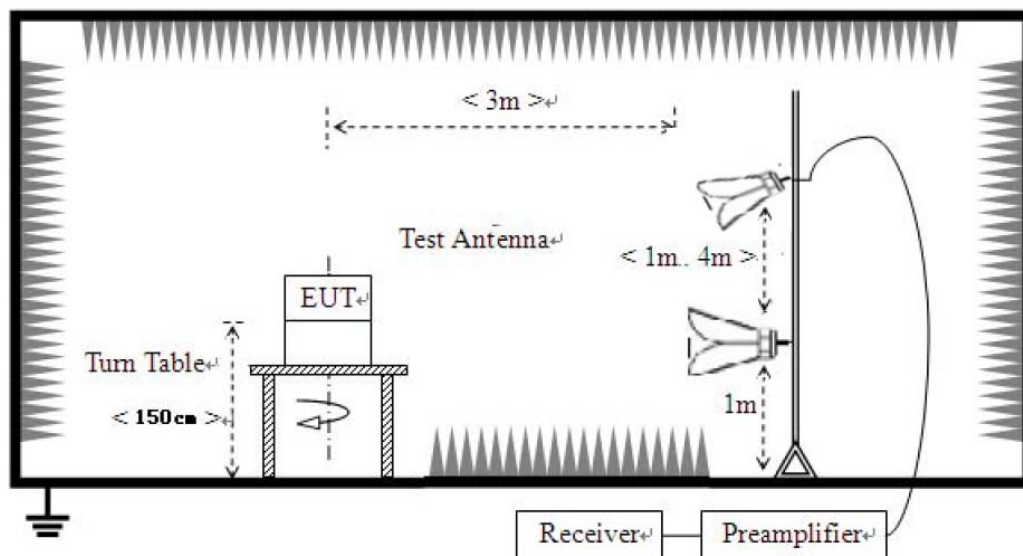
For radiated emissions from 9 KHz to 30 MHz



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. All modes of operation were investigated and the worst-case emissions are reported.

The worst mode as below:

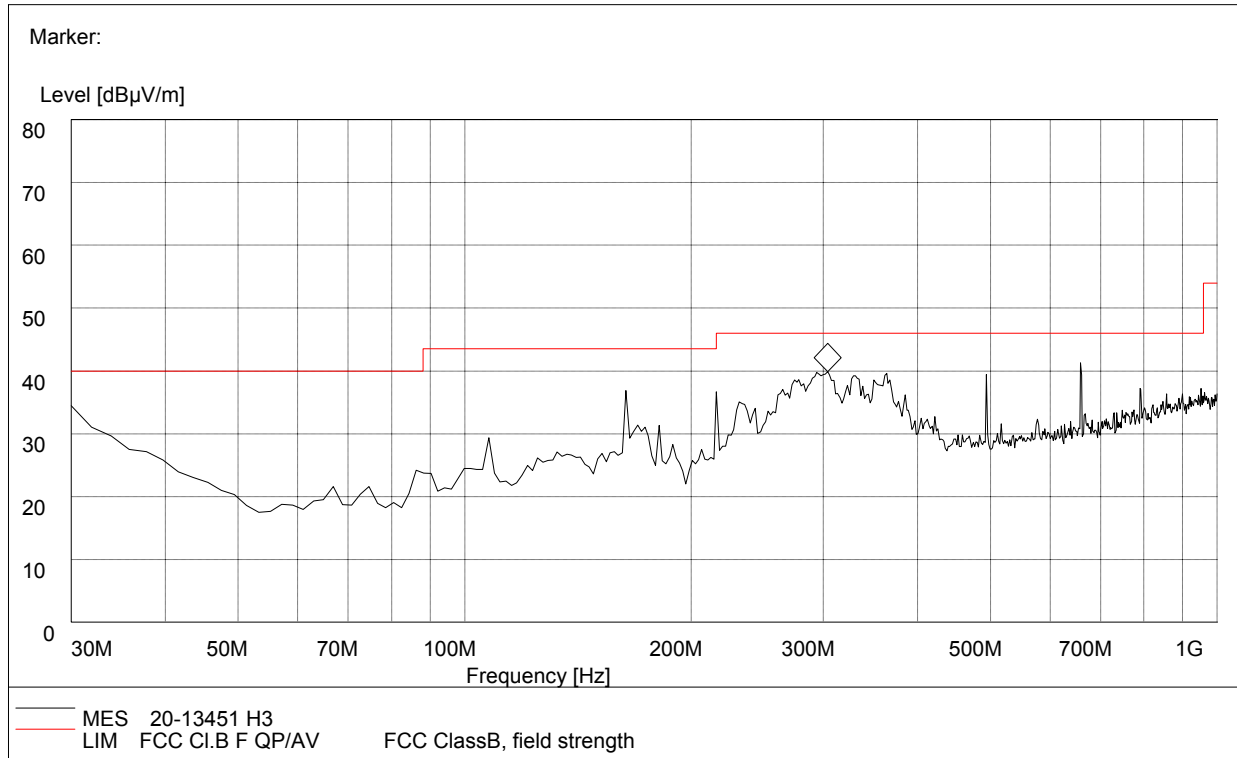
11a CH36 TX for below 1GHz

2.6.5. Test Results of Radiated Band Edge and Spurious Emission

For 9 KHz to 30MHz

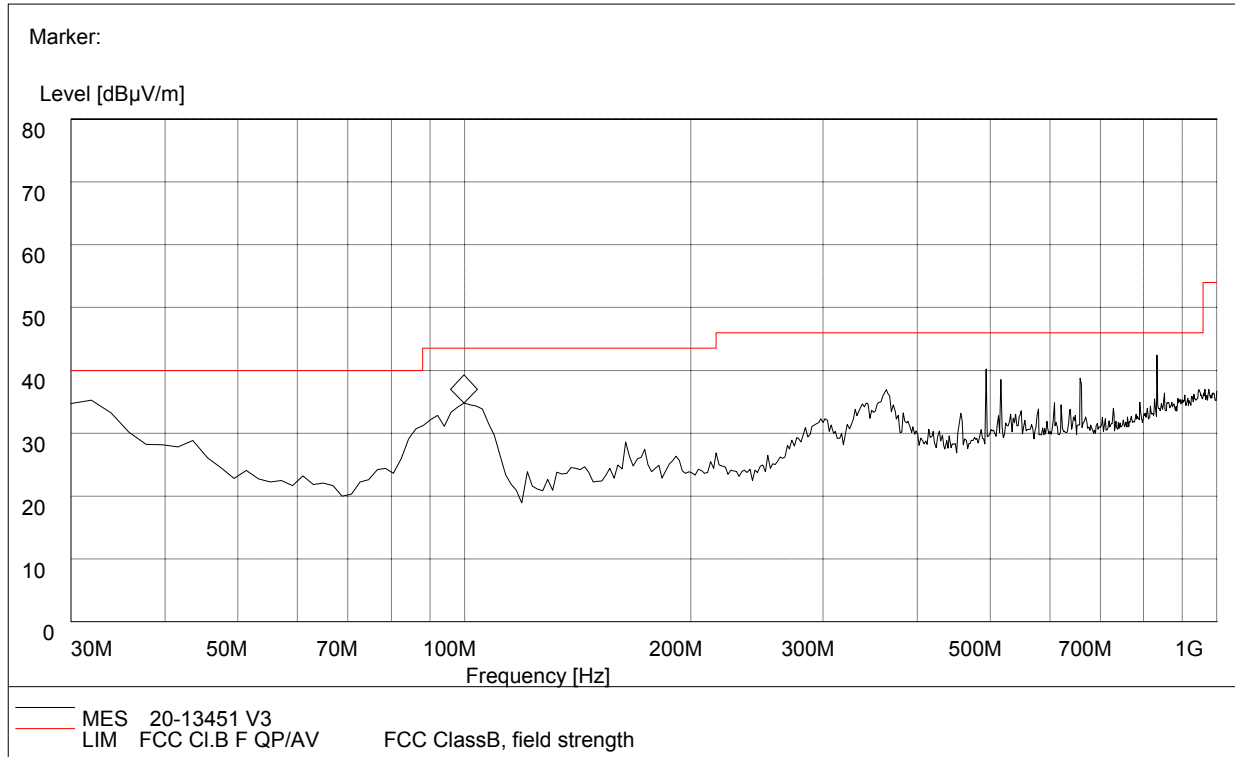
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Corr. Factor (dB/m)	Antenna height (cm)	Limit (dB μ V/m)	Margin	Antenna	Verdict
30.000000	32.18	120.000	17.9	100.0	40.0	7.82	Horizontal	Pass
163.860000	34.58	120.000	11.2	100.0	43.5	8.92	Horizontal	Pass
216.240000	33.58	120.000	10.8	100.0	43.5	9.92	Horizontal	Pass
293.840000	38.92	120.000	12.8	100.0	46.0	7.08	Horizontal	Pass
328.760000	38.63	120.000	13.1	100.0	46.0	7.37	Horizontal	Pass
658.560000	39.58	120.000	21.0	100.0	46.0	6.42	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
31.920000	32.58	120.000	17.9	100.0	40.0	7.42	Vertical	Pass
92.080000	30.96	120.000	7.0	100.0	43.5	12.54	Vertical	Pass
99.840000	32.96	120.000	10.2	100.0	43.5	10.54	Vertical	Pass
365.620000	33.63	120.000	15.8	100.0	46.0	12.37	Vertical	Pass
493.660000	37.25	120.000	19.3	100.0	46.0	8.75	Vertical	Pass
833.160000	42.15	120.000	23.9	100.0	46.0	3.85	Vertical	Pass

For 1GHz to 40 GHz

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5180MHz)

No.	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)
1	5150.00	53.25	PK	68.20	-14.95	1.60	200	45.75	7.50
2	5150.00	41.86	AV	54.00	-12.14	1.60	200	34.36	7.50
3	10360.00	55.98	PK	68.20	-12.22	1.50	300	36.18	19.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5180MHz)

No.	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)
1	5150.00	54.62	PK	68.20	-13.58	1.70	180	47.12	7.50
2	5150.00	42.97	AV	54.00	-11.03	1.70	180	35.47	7.50
3	10360.00	58.21	PK	68.20	-9.99	1.70	180	38.41	19.80

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5220MHz)**

No.	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)
1	10400.00	55.98	PK	68.20	-12.22	1.50	300	36.08	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5220MHz)

No.	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)
1	10400.00	54.25	PK	68.20	-13.95	1.70	180	34.35	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5240MHz)

No.	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)
1	5350.00	56.62	PK	68.20	-11.58	1.50	290	48.62	8.00
2	5350.00	44.46	AV	54.00	-9.54	1.50	290	36.46	8.00
3	10480.00	57.84	PK	68.20	-10.36	1.50	290	37.94	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5240MHz)

No.	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)
1	5350.00	55.94	PK	68.20	-12.26	1.70	320	47.94	8.00
2	5350.00	44.00	AV	54.00	-10	1.70	320	36.00	8.00
3	10480.00	54.25	PK	68.20	-13.95	1.70	320	34.35	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5745MHz)

No.	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)
1	5725.00	56.36	PK	68.20	-11.84	1.60	300	46.71	9.65
2	11490.00	55.94	PK	68.20	-12.26	1.60	300	34.24	21.70
3	11490.00	44.07	AV	54.00	-9.93	1.60	300	22.37	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5745MHz)

No.	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)
1	5725.00	54.74	PK	68.20	-13.46	1.70	200	45.09	9.65
2	11490.00	56.08	PK	68.20	-12.12	1.70	200	34.38	21.70
3	11490.00	43.97	AV	54.00	-10.03	1.70	200	22.27	21.70

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5785MHz)

No.	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)
1	11570.00	56.36	PK	68.20	-11.84	1.80	300	34.66	21.70
2	11570.00	44.18	AV	54.00	-9.82	1.80	300	22.48	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5785MHz)

No.	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)
1	11570.00	55.48	PK	68.20	-12.72	1.70	290	33.78	21.70
2	11570.00	43.09	AV	54.00	-10.91	1.70	290	21.39	21.70

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11a_5825MHz)

No.	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)
1	5850.00	57.15	PK	68.20	-11.05	1.60	300	47.37	9.78
2	11650.00	56.32	PK	68.20	-11.88	1.60	270	34.42	21.90
3	11650.00	44.58	AV	54.00	-9.42	1.60	270	22.68	21.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a_5825MHz)

No.	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)
1	5850.00	55.37	PK	68.20	-12.83	1.80	290	45.59	9.78
2	11650.00	56.36	PK	68.20	-11.84	1.80	290	34.46	21.90
3	11650.00	44.07	AV	54.00	-9.93	1.80	290	22.17	21.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5180MHz)

No.	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)
1	5150.00	52.65	PK	68.20	-15.55	1.80	120	45.15	7.50
2	5150.00	41.26	AV	54.00	-12.74	1.80	120	33.76	7.50
3	10360.00	55.98	PK	68.20	-12.22	1.80	120	36.18	19.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5180MHz)

No.	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)
1	5150.00	54.62	PK	68.20	-13.58	1.90	300	47.12	7.50
2	5150.00	42.97	AV	54.00	-11.03	1.90	300	35.47	7.50
3	10360.00	58.21	PK	68.20	-9.99	1.90	300	38.41	19.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5220MHz)

No.	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)
1	10400.00	54.25	PK	68.20	-13.95	1.50	300	34.35	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5220MHz)

No.	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)
1	10400.00	56.36	PK	68.20	-11.84	1.70	180	36.46	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5240MHz)

No.	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)
1	5350.00	57.25	PK	68.20	-10.95	1.50	290	49.25	8.00
2	5350.00	45.09	AV	54.00	-8.91	1.50	290	37.09	8.00
3	10480.00	55.36	PK	68.20	-12.84	1.50	290	35.46	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5240MHz)

No.	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)
1	5350.00	54.36	PK	68.20	-13.84	1.70	320	46.36	8.00
2	5350.00	42.42	AV	54.00	-11.58	1.70	320	34.42	8.00
3	10480.00	59.66	PK	68.20	-8.54	1.70	320	39.76	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5745MHz)

No.	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)
1	5725.00	55.98	PK	68.20	-12.22	1.60	300	46.33	9.65
2	11490.00	56.69	PK	68.20	-11.51	1.60	300	34.99	21.70
3	11490.00	44.82	AV	54.00	-9.18	1.60	300	23.12	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5745MHz)

No.	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)
1	5725.00	55.28	PK	68.20	-12.92	1.70	200	45.63	9.65
2	11490.00	57.25	PK	68.20	-10.95	1.70	200	35.55	21.70
3	11490.00	45.14	AV	54.00	-8.86	1.70	200	23.44	21.70

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5785MHz)

No.	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)
1	11570.00	57.54	PK	68.20	-10.66	1.80	300	35.84	21.70
2	11570.00	45.36	AV	54.00	-8.64	1.80	300	23.66	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5785MHz)

No.	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)
1	11570.00	56.32	PK	68.20	-11.88	1.70	290	34.62	21.70
2	11570.00	43.93	AV	54.00	-10.07	1.70	290	22.23	21.70

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_5825MHz)

No.	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)
1	5850.00	58.2	PK	68.20	-10	1.60	300	48.42	9.78
2	11650.00	55.87	PK	68.20	-12.33	1.60	270	33.97	21.90
3	11650.00	44.13	AV	54.00	-9.87	1.60	270	22.23	21.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_5825MHz)

No.	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)
1	5850.00	56.63	PK	68.20	-11.57	1.80	290	46.85	9.78
2	11650.00	57.25	PK	68.20	-10.95	1.80	290	35.35	21.90
3	11650.00	44.96	AV	54.00	-9.04	1.80	290	23.06	21.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5180MHz)

No.	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)
1	5150.00	50.33	PK	68.20	-17.87	1.60	300	42.83	7.50
2	5150.00	38.94	AV	54.00	-15.06	1.60	300	31.44	7.50
3	10360.00	53.65	PK	68.20	-14.55	1.60	300	33.85	19.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5180MHz)

No.	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)
1	5150.00	55.26	PK	68.20	-12.94	1.80	200	47.76	7.50
2	5150.00	43.61	AV	54.00	-10.39	1.80	200	36.11	7.50
3	10360.00	56.36	PK	68.20	-11.84	1.80	200	36.56	19.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5220MHz)

No.	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)
1	10400.00	55.62	PK	68.20	-12.58	1.70	120	35.72	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5220MHz)

No.	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)
1	10400.00	55.62	PK	68.20	-12.58	1.50	200	35.72	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5240MHz)

No.	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)
1	5350.00	56.32	PK	68.20	-11.88	1.80	300	48.32	8.00
2	5350.00	44.16	AV	54.00	-9.84	1.80	300	36.16	8.00
3	10480.00	55.36	PK	68.20	-12.84	1.80	300	35.46	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5240MHz)

No.	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)
1	5350.00	53.62	PK	68.20	-14.58	1.70	320	45.62	8.00
2	5350.00	41.68	AV	54.00	-12.32	1.70	320	33.68	8.00
3	10480.00	59.66	PK	68.20	-8.54	1.70	320	39.76	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5745MHz)

No.	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)
1	5725.00	53.21	PK	68.20	-14.99	1.60	120	43.56	9.65
2	11490.00	56.92	PK	68.20	-11.28	1.60	120	35.22	21.70
3	11490.00	45.05	AV	54.00	-8.95	1.60	120	23.35	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5745MHz)

No.	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)
1	5725.00	54.33	PK	68.20	-13.87	1.70	200	44.68	9.65
2	11490.00	57.23	PK	68.20	-10.97	1.70	200	35.53	21.70
3	11490.00	45.12	AV	54.00	-8.88	1.70	200	23.42	21.70

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5785MHz)

No.	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)
1	11570.00	56.95	PK	68.20	-11.25	1.80	300	35.25	21.70
2	11570.00	45.77	AV	54.00	-8.23	1.80	300	24.07	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5785MHz)

No.	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)
1	11570.00	56.32	PK	68.20	-11.88	1.70	290	34.62	21.70
2	11570.00	44.13	AV	54.00	-9.87	1.70	290	22.43	21.70

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20_5825MHz)

No.	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)
1	5850.00	58.20	PK	68.20	-10	1.60	300	48.42	9.78
2	11650.00	55.87	PK	68.20	-12.33	1.60	270	33.97	21.90
3	11650.00	43.89	AV	54.00	-10.11	1.60	270	21.99	21.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20_5825MHz)

No.	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)
1	5850.00	57.26	PK	68.20	-10.94	1.50	300	47.48	9.78
2	11650.00	58.36	PK	68.20	-9.84	1.50	300	36.46	21.90
3	11650.00	46.17	AV	54.00	-7.83	1.50	300	24.27	21.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5190MHz)

No.	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)
1	5150.00	58.33	PK	68.20	-9.87	1.50	200.00	50.83	7.50
2	5150.00	46.04	AV	54.00	-7.96	1.50	200.00	38.54	7.50
3	10380.00	59.30	PK	68.20	-8.9	1.50	320.00	39.50	19.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5190MHz)

No.	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)
1	5150.00	57.65	PK	68.20	-10.55	1.80	190.00	50.15	7.50
2	5150.00	46.17	AV	54.00	-7.83	1.80	190.00	38.67	7.50
3	10380.00	58.33	PK	68.20	-9.87	1.80	190.00	38.53	19.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5230MHz)

No.	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)
1	5350.00	58.31	PK	68.20	-9.89	1.70	120.00	50.31	8.00
2	5350.00	47.09	AV	54.00	-6.91	1.70	120.00	39.09	8.00
3	10460.00	58.36	PK	68.20	-9.84	1.70	120.00	38.46	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5230MHz)

No.	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)
1	5350.00	56.95	PK	68.20	-11.25	1.60	300.00	48.95	8.00
2	5350.00	45.30	AV	54.00	-8.7	1.60	300.00	37.30	8.00
3	10460.00	58.95	PK	68.20	-9.25	1.60	300.00	39.05	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5755MHz)

No.	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)
1	5725.00	56.33	PK	68.20	-11.87	1.70	100.00	46.68	9.65
2	5725.00	44.90	AV	54.00	-9.1	1.70	100.00	35.25	9.65
3	11510.00	55.19	PK	68.20	-13.01	1.70	100.00	33.49	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5755MHz)

No.	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)
1	5725.00	58.12	PK	68.20	-10.08	1.50	210.00	48.47	9.65
2	5725.00	46.89	AV	54.00	-7.11	1.50	210.00	37.24	9.65
3	11510.00	55.99	PK	68.20	-12.21	1.50	210.00	34.29	21.70

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n40_5795MHz)

No.	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)
1	5850.00	58.36	PK	68.20	-9.84	1.90	270.00	48.58	9.78
2	5850.00	47.15	AV	54.00	-6.85	1.90	270.00	37.37	9.78
3	11590.00	59.34	PK	68.20	-8.86	1.90	270.00	37.54	21.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n40_5795MHz)

No.	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)
1	5850.00	58.36	PK	68.20	-9.84	1.60	300.00	48.58	9.78
2	5850.00	47.33	AV	54.00	-6.67	1.60	300.00	37.55	9.78
3	11590.00	59.12	PK	68.20	-9.08	1.60	300.00	37.32	21.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5190MHz)

No.	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)
1	5150.00	57.48	PK	68.20	-10.72	1.50	200.00	49.98	7.50
2	5150.00	45.02	AV	54.00	-8.98	1.50	200.00	37.52	7.50
3	10380.00	58.32	PK	68.20	-9.88	1.50	320.00	38.52	19.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5190MHz)

No.	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)
1	5150.00	59.36	PK	68.20	-8.84	1.80	190.00	51.86	7.50
2	5150.00	47.79	AV	54.00	-6.21	1.80	190.00	40.29	7.50
3	10380.00	57.44	PK	68.20	-10.76	1.80	190.00	37.64	19.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5230MHz)

No.	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)
1	5350.00	57.98	PK	68.20	-10.22	1.70	120.00	49.98	8.00
2	5350.00	46.55	AV	54.00	-7.45	1.70	120.00	38.55	8.00
3	10460.00	58.36	PK	68.20	-9.84	1.70	120.00	38.46	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5230MHz)

No.	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)
1	5350.00	56.38	PK	68.20	-11.82	1.60	300.00	48.38	8.00
2	5350.00	45.18	AV	54.00	-8.82	1.60	300.00	37.18	8.00
3	10460.00	58.95	PK	68.20	-9.25	1.60	300.00	39.05	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5755MHz)

No.	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)
1	5725.00	58.36	PK	68.20	-9.84	1.70	100.00	48.71	9.65
2	5725.00	46.79	AV	54.00	-7.21	1.70	100.00	37.14	9.65
3	11510.00	56.37	PK	68.20	-11.83	1.70	300.00	34.67	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5755MHz)

No.	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)
1	5725.00	57.88	PK	68.20	-10.32	1.80	300.00	48.23	9.65
2	5725.00	46.43	AV	54.00	-7.57	1.80	300.00	36.78	9.65
3	11510.00	56.94	PK	68.20	-11.26	1.80	300.00	35.24	21.70

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40_5795MHz)

No.	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)
1	5850.00	58.03	PK	68.20	-10.17	1.90	270.00	48.25	9.78
2	5850.00	46.40	AV	54.00	-7.6	1.90	270.00	36.62	9.78
3	11590.00	58.88	PK	68.20	-9.32	1.90	270.00	37.08	21.80

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40_5795MHz)

No.	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)
1	5850.00	58.16	PK	68.20	-10.04	1.60	300.00	48.38	9.78
2	5850.00	46.84	AV	54.00	-7.16	1.60	300.00	37.06	9.78
3	11590.00	59.07	PK	68.20	-9.13	1.60	300.00	37.27	21.80

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5210MHz)									
No.	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)
1	5150.00	57.65	PK	68.20	-10.55	1.70	120.00	50.15	7.50
2	5150.00	45.65	AV	54.00	-8.35	1.70	120.00	38.15	7.50
3	10420.00	58.36	PK	68.20	-9.84	1.70	120.00	38.46	19.90
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5210MHz)									
No.	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)
1	5150.00	57.12	PK	68.20	-11.08	1.50	240.00	49.62	7.50
2	5150.00	45.09	AV	54.00	-8.91	1.50	240.00	37.59	7.50
3	10420.00	59.32	PK	68.20	-8.88	1.50	240.00	39.42	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5775MHz)									
No.	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)
1	5460.00	59.32	PK	68.20	-8.88	1.80	200.00	49.54	9.78
2	5460.00	47.49	AV	54.00	-6.51	1.80	200.00	37.71	9.78
3	11220.00	58.33	PK	68.20	-9.87	1.80	200.00	36.53	21.80
4	11220.00	46.49	AV	54.00	-7.51	1.80	200.00	24.69	21.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5775MHz)									
No.	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)
1	5460.00	56.36	PK	68.20	-11.84	1.40	120.00	46.58	9.78
2	5460.00	44.71	AV	54.00	-9.29	1.40	120.00	34.93	9.78
3	11220.00	57.12	PK	68.20	-11.08	1.40	120.00	35.32	21.80
4	11220.00	46.23	AV	54.00	-7.77	1.40	120.00	24.43	21.80

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

2.7. Conducted Emission

2.7.1. Limit of Conducted Emission

FCC 15.207,

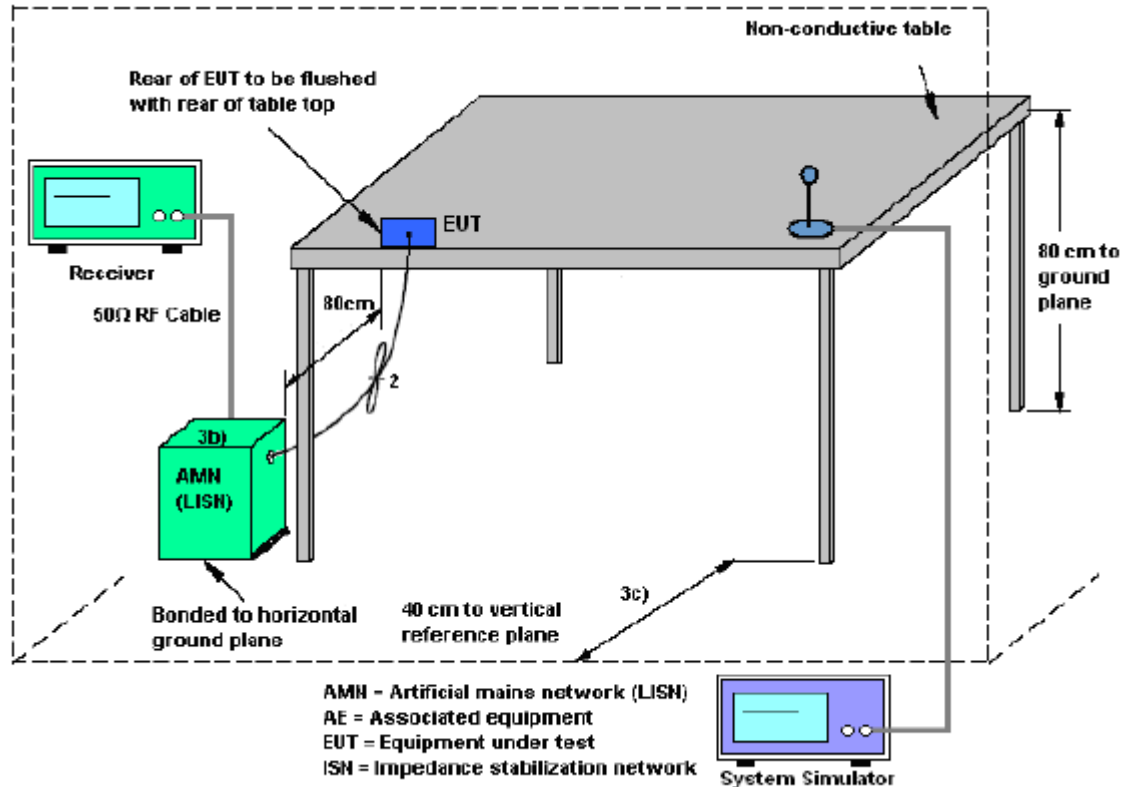
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

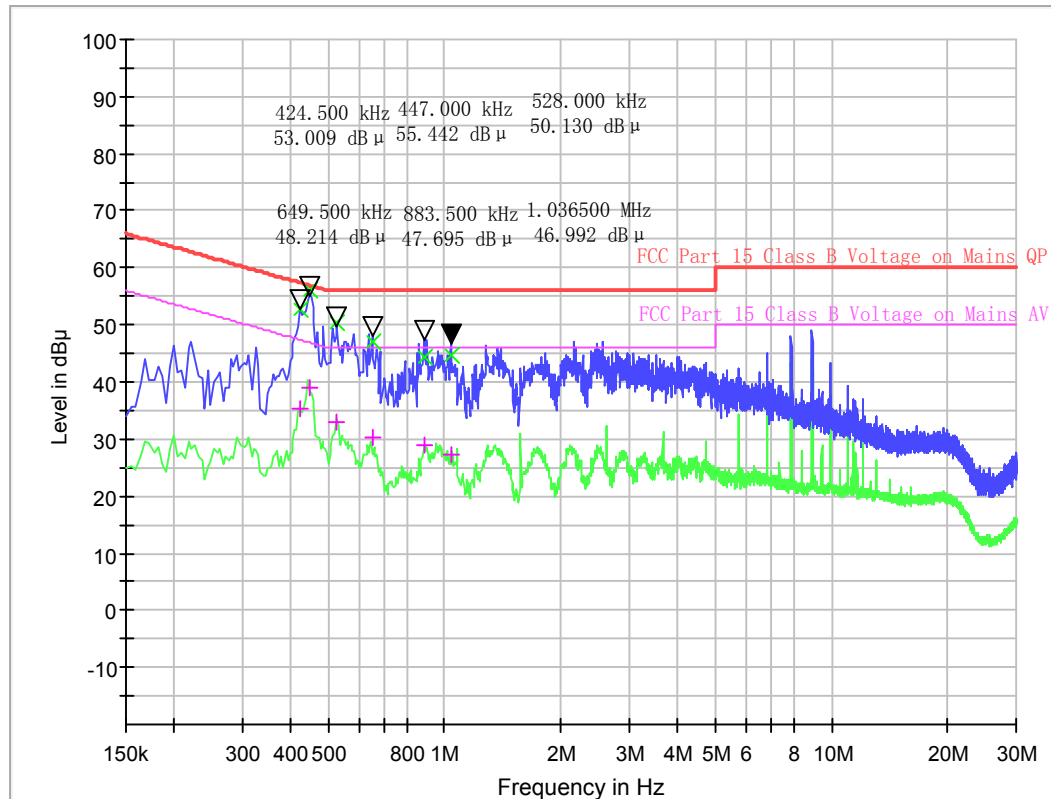


2.7.4. Test Procedures

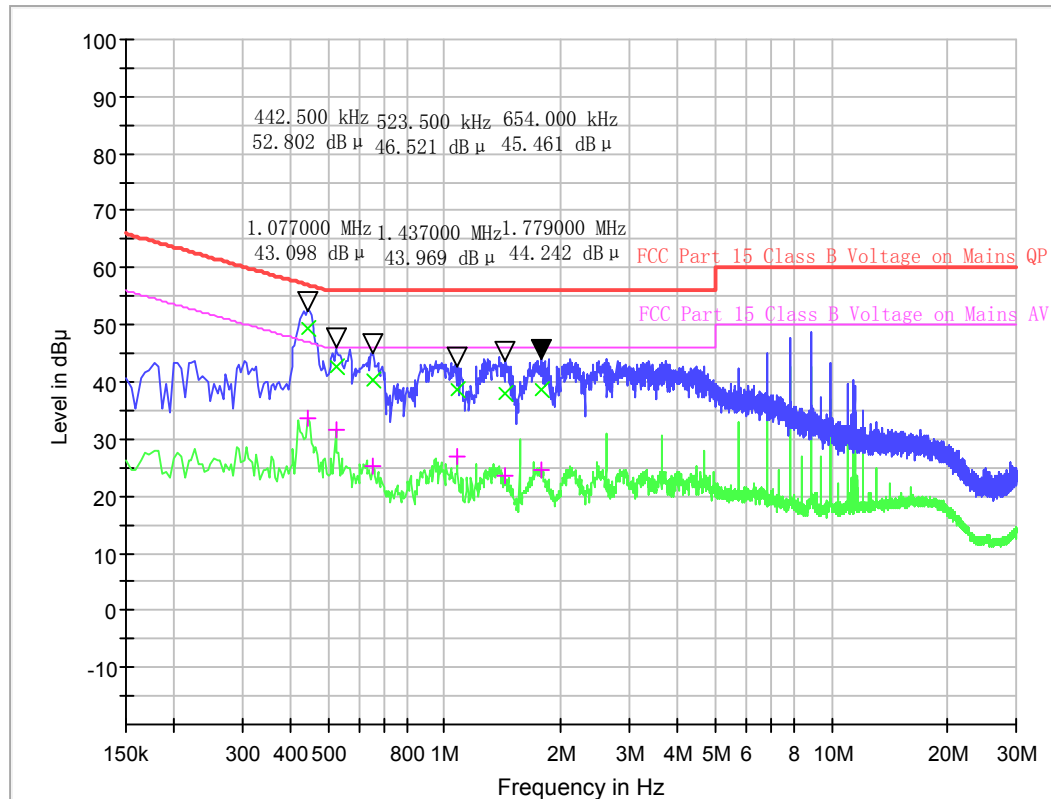
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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)



Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB μ V)
0.424500	52.81	35.32	0.1	10.1	4.55	57.4	12.04	47.4
0.447000	55.99	38.92	0.1	10.1	0.94	56.9	8.01	46.9
0.528000	50.30	32.81	0.1	10.1	5.70	56.0	13.19	46.0
0.649500	47.16	30.16	0.1	10.1	8.84	56.0	15.84	46.0
0.883500	44.34	28.96	0.2	10.2	11.66	56.0	17.04	46.0
1.036500	44.70	27.29	0.2	10.2	11.30	56.0	18.71	46.0



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)
0.442500	49.55	33.67	0.1	10.1	7.46	57.0	13.34	47.0
0.523500	42.84	31.56	0.1	10.1	13.16	56.0	14.44	46.0
0.654000	40.35	25.40	0.1	10.1	15.65	56.0	20.60	46.0
1.077000	38.69	26.92	0.1	10.1	17.31	56.0	19.08	46.0
1.437000	37.99	23.41	0.2	10.2	18.01	56.0	22.59	46.0
1.779000	38.72	24.55	0.2	10.2	17.28	56.0	21.45	46.0

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	R&S	ESU8	A0805559	2020.04.03	2021.04.02
2	Power Meter	R&S	NRP-Z31	102872	2020.05.18	2021.05.17
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	2020.03.24	2021.03.23
8	Amplifier 1G~18GHz	MILMEGA	AS0104R-800/40 0	A160302517	2020.03.24	2021.03.23
9	High pass filter	Compliance Direction systems	BSU-6	34202	2020.11.10	2021.11.09
10	Horn Antenna	R&S	HF906	A0304225	2019.04.17	2022.04.16
11	Horn Antenna	R&S	ESIB7	A0501375	2020.06.24	2021.06.23
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	XSM	DNF810C	A0501375	2020.05.26	2021.05.25
15	Spectrum Analyzer	KEYSIGHT	N9030A	A160702554	2020.05.18	2021.05.17
16	Power Supply	R&S	ESIB26	A0304218	2020.04.29	2021.04.28
17	LISN	ROHDE&SCH WARZ	ESH2-Z5	A0304221	2020.04.03	2021.04.02
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%($U=2U_c(y)$)	2.6dB
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Uncertainty of Radiated Emission Measurement (30MHz~1GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.4dB
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Uncertainty of Radiated Emission Measurement (1GHz~40GHz)

Measuring Uncertainty for a level of confidence of 95%($U=2U_c(y)$)	2.8dB
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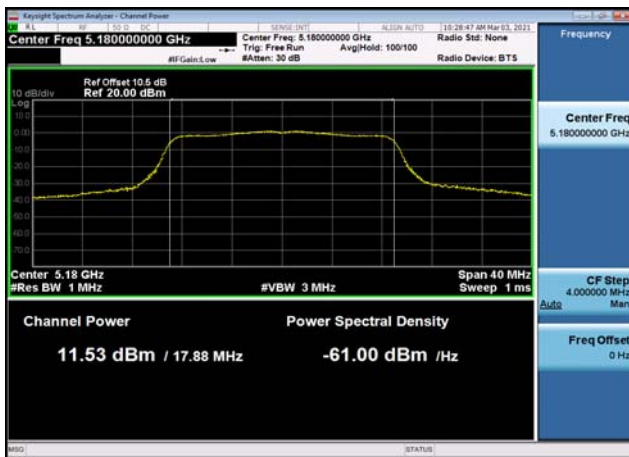
Appendix A

Conducted output power test results

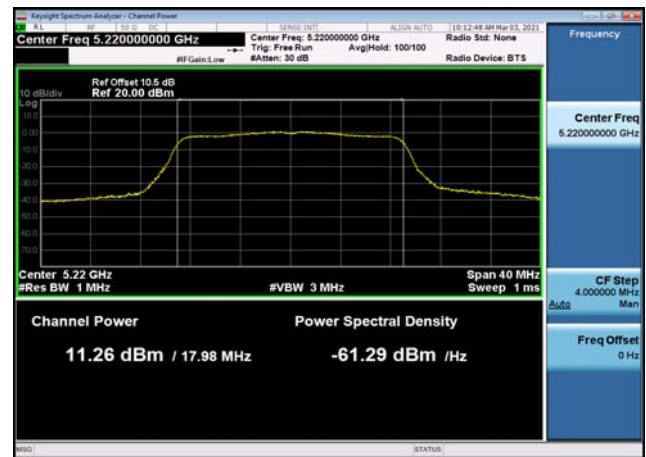
U-NII-1 AVGSA Output Power					
Mode	Test Frequency (MHz)	Max Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
802.11n (20MHz)	5180	11.53	24	/	Pass
802.11n (20MHz)	5220	11.26			Pass
802.11n (20MHz)	5240	11.87			Pass
802.11n (40MHz)	5190	10.87			Pass
802.11n (40MHz)	5230	10.58			Pass
802.11ac (20MHz)	5180	11.29			Pass
802.11ac (20MHz)	5220	11.09			Pass
802.11ac (20MHz)	5240	10.35			Pass
802.11ac (40MHz)	5190	10.96			Pass
802.11ac (40MHz)	5230	10.58			Pass
802.11ac (80MHz)	5210	10.31			Pass
802.11a (20MHz)	5180	12.88			Pass
802.11a (20MHz)	5220	12.26			Pass
802.11a (20MHz)	5240	11.93			Pass
U-NII-3 AVGSA Output Power					
Mode	Test Frequency (MHz)	Max Power (dBm)	FCC Limit (dBm)	IC Limit (dBm)	Result
802.11n (20MHz)	5745	12.06	30	/	Pass
802.11n (20MHz)	5785	11.87			Pass
802.11n (20MHz)	5825	10.59			Pass
802.11n (40MHz)	5755	11.20			Pass
802.11n (40MHz)	5795	10.98			Pass
802.11ac (20MHz)	5745	11.53			Pass
802.11ac (20MHz)	5785	11.11			Pass
802.11ac (20MHz)	5825	10.58			Pass
802.11ac (40MHz)	5755	11.18			Pass
802.11ac (40MHz)	5795	11.05			Pass
802.11ac (80MHz)	5775	10.77			Pass
802.11a (20MHz)	5745	12.86			Pass
802.11a (20MHz)	5785	12.48			Pass
802.11a (20MHz)	5825	12.08			Pass

Test Plots

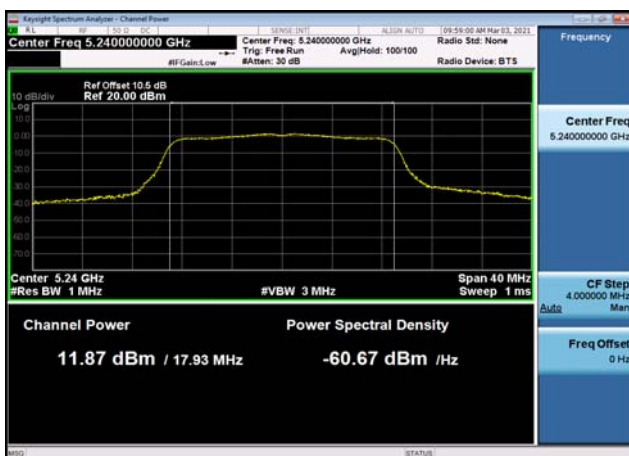
U-NII-1 Output Power-802.11n(20MHz)
,5180MHz



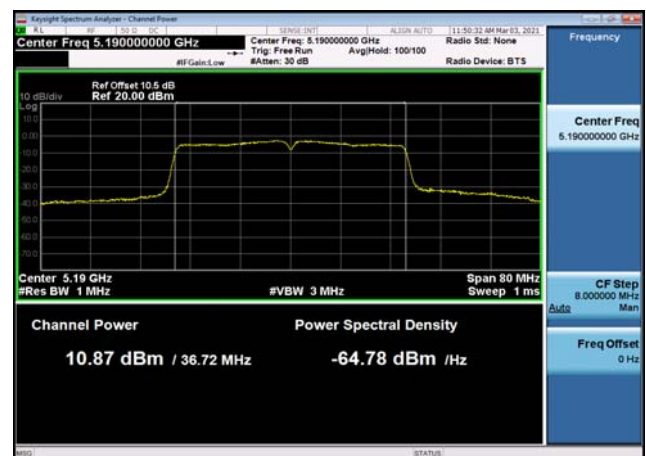
U-NII-1 Output Power-802.11n(20MHz)
,5220MHz



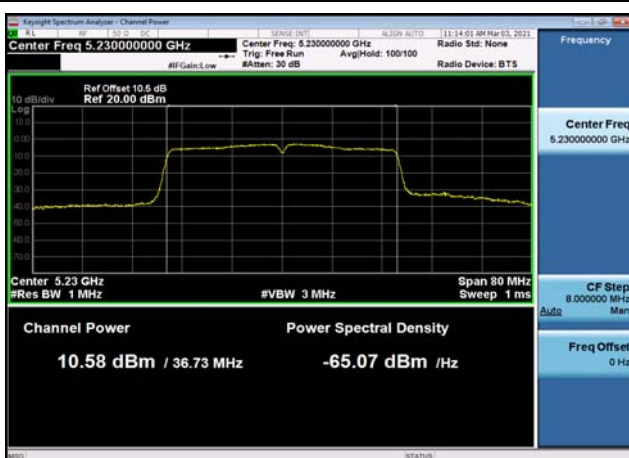
U-NII-1 Output Power-802.11n(20MHz)
,5240MHz



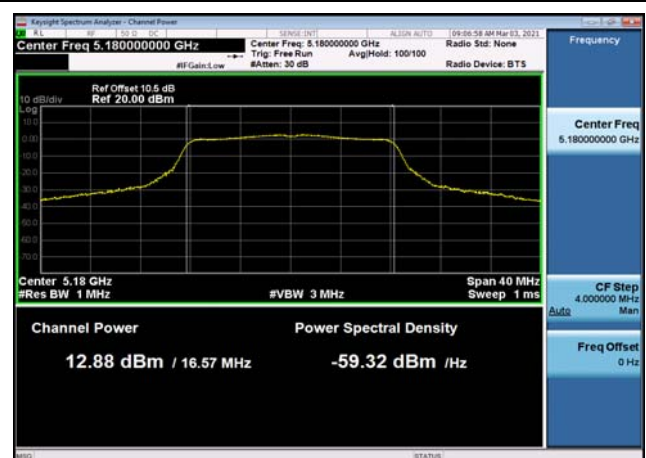
U-NII-1 Output Power-802.11n(40MHz)
,5190MHz



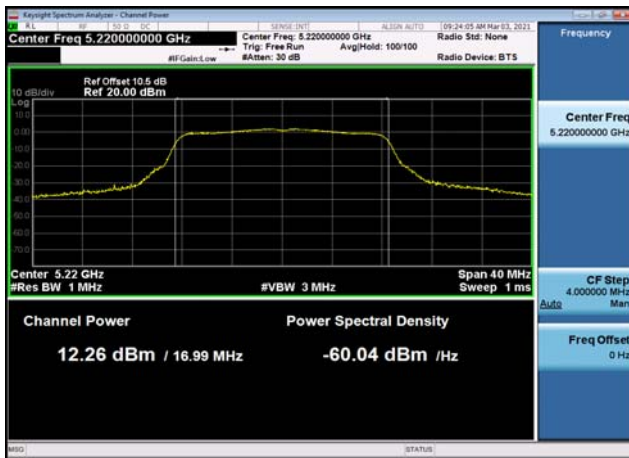
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,5230MHz



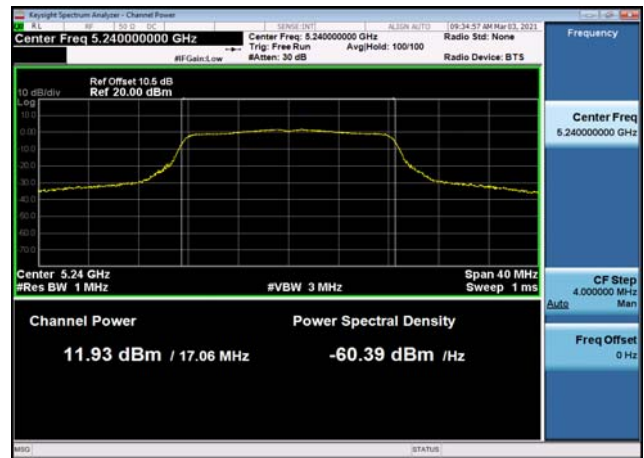
U-NII-1 Output Power-802.11a(20MHz)
,5180MHz



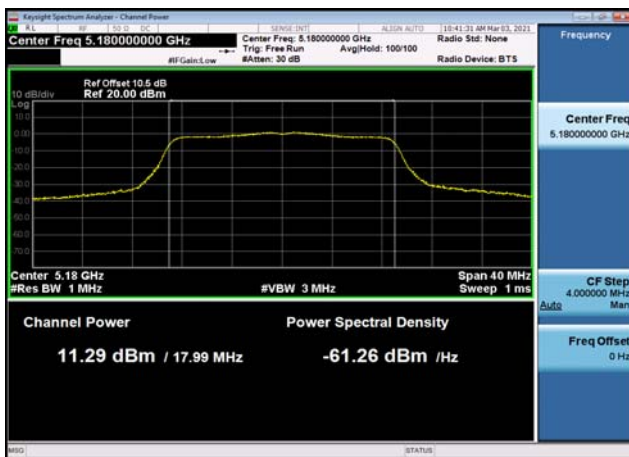
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,5220MHz



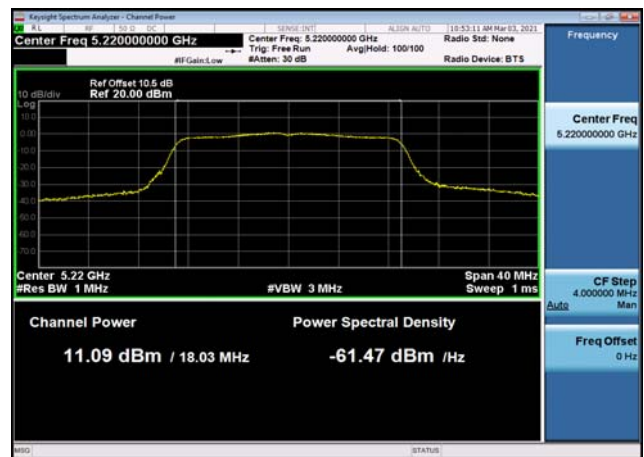
U-NII-1 Output Power-802.11a(20MHz)
,5240MHz



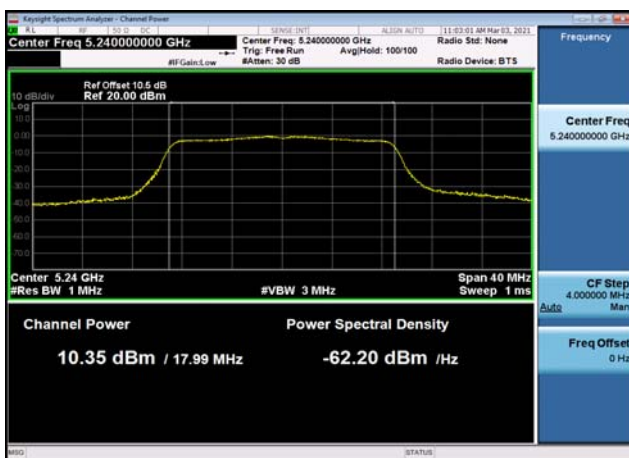
U-NII-1 Output Power-802.11ac(20MHz)
,5180MHz



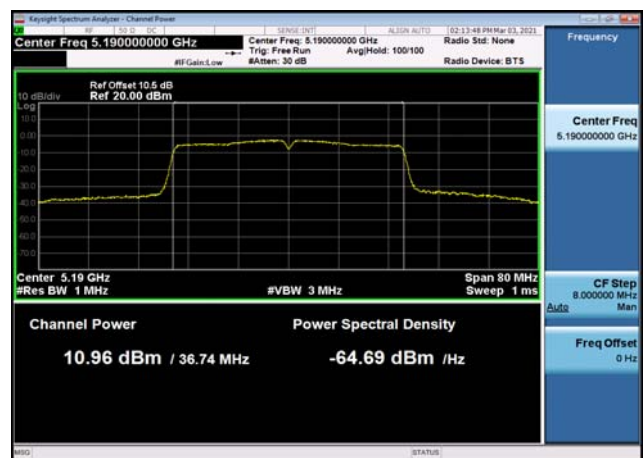
U-NII-1 Output Power-802.11ac(20MHz)
,5220MHz



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



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



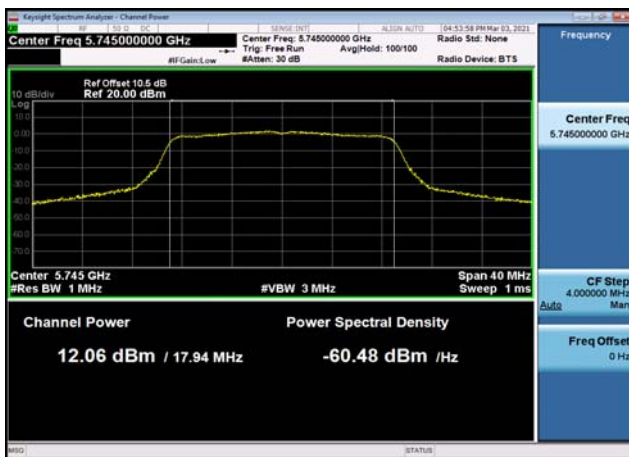
U-NII-1 Output Power-802.11ac(40MHz)
,5230MHz



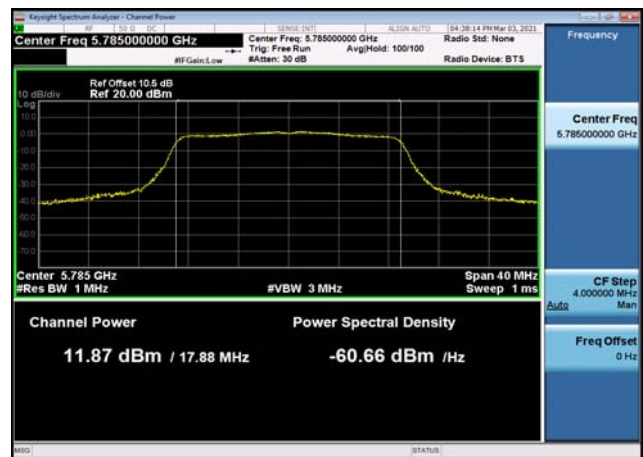
U-NII-1 Output Power-802.11ac(80MHz)
,5210MHz



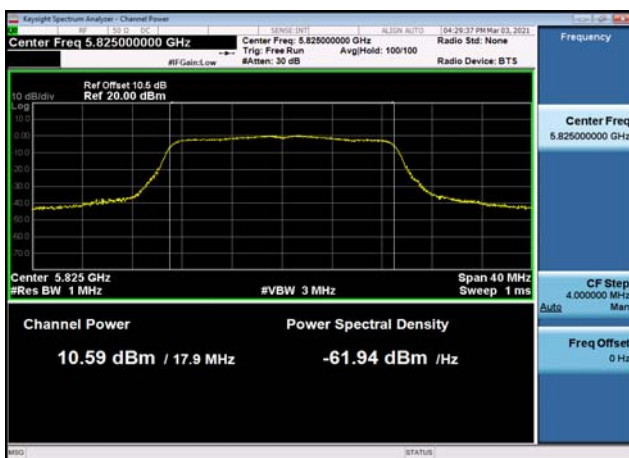
U-NII-3 Output Power-802.11n(20MHz)
,5745MHz



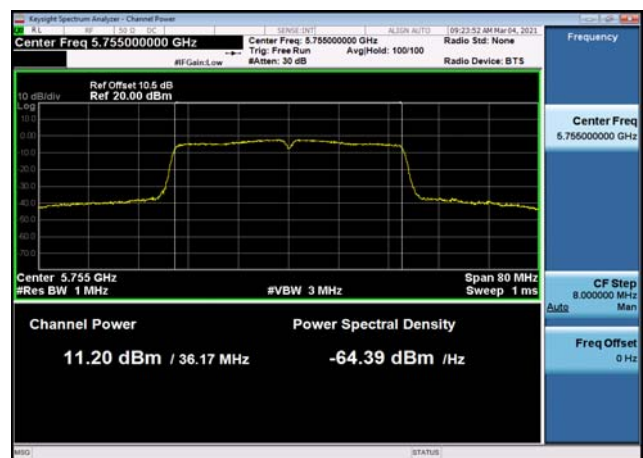
U-NII-3 Output Power-802.11n(20MHz)
,5785MHz



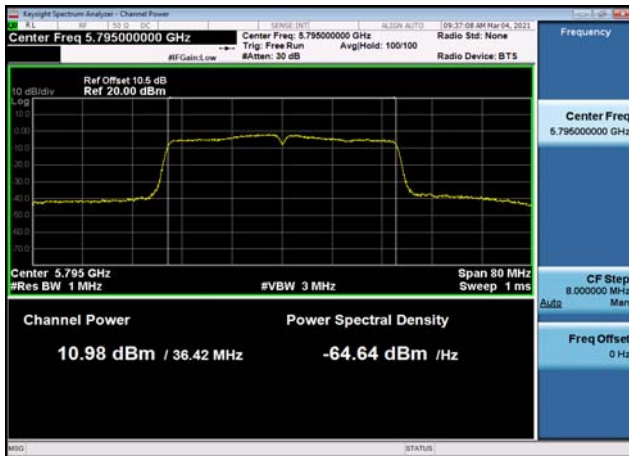
U-NII-3 Output Power-802.11n(20MHz)
,5825MHz



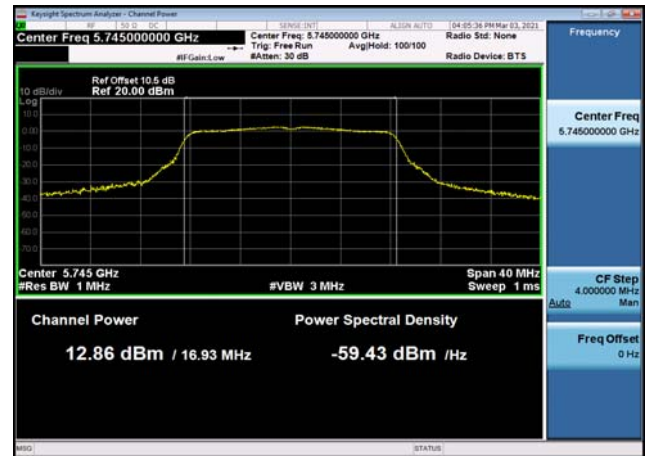
U-NII-3 Output Power-802.11n(40MHz)
,5755MHz



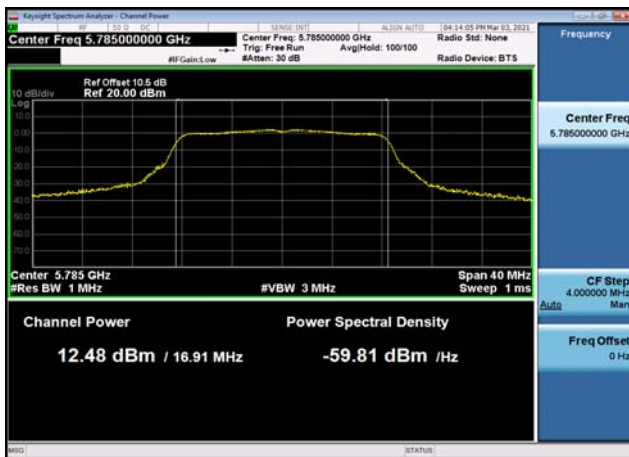
U-NII-3 Output Power-802.11n(40MHz)
,5795MHz



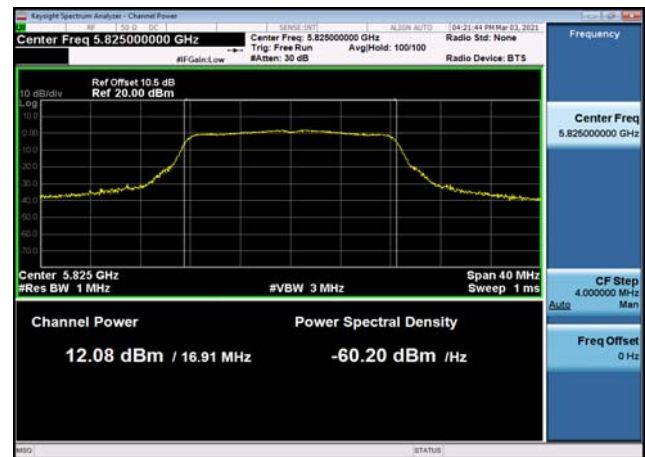
U-NII-3 Output Power-802.11a(20MHz)
,5745MHz



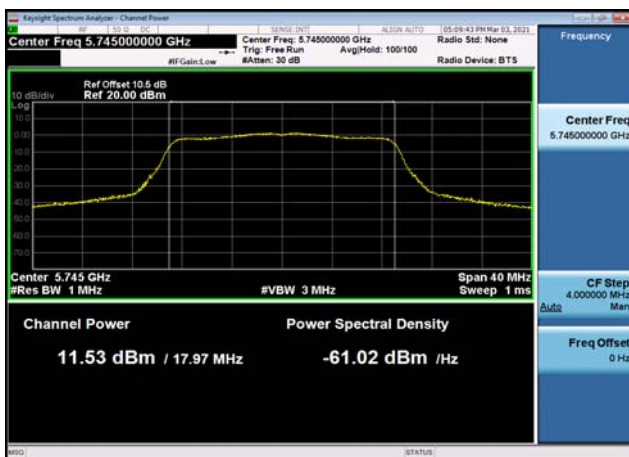
U-NII-3 Output Power-802.11a(20MHz)
,5785MHz



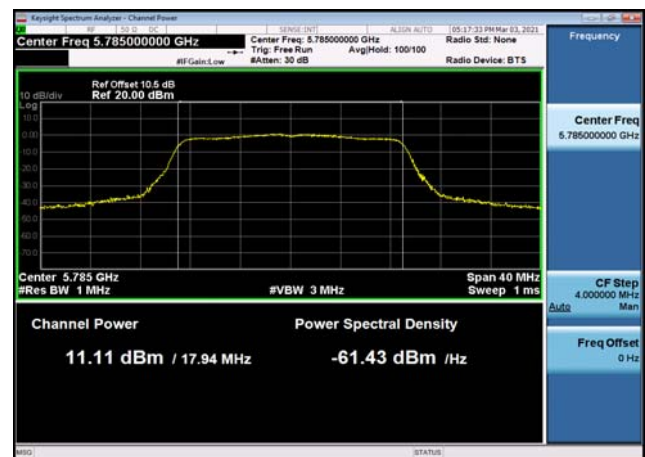
U-NII-3 Output Power-802.11a(20MHz)
,5825MHz



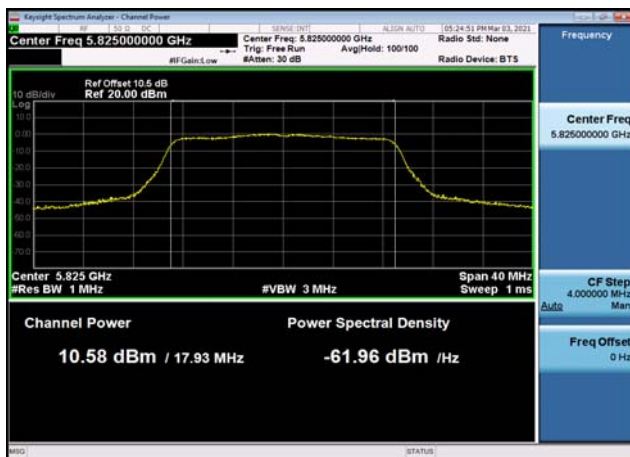
U-NII-3 Output Power-802.11ac(20MHz)
,5745MHz



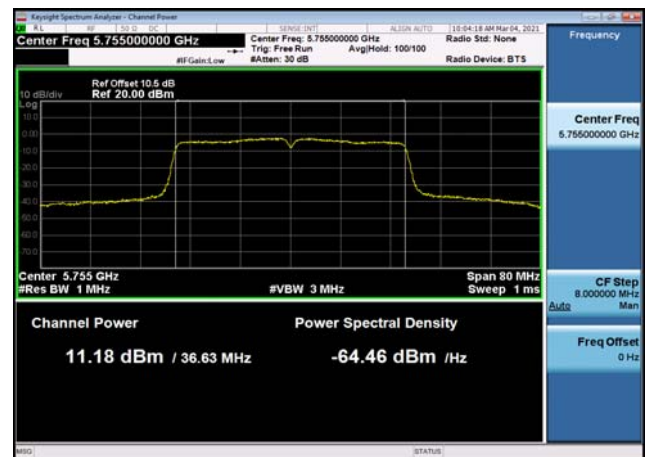
U-NII-3 Output Power-802.11ac(20MHz)
,5785MHz



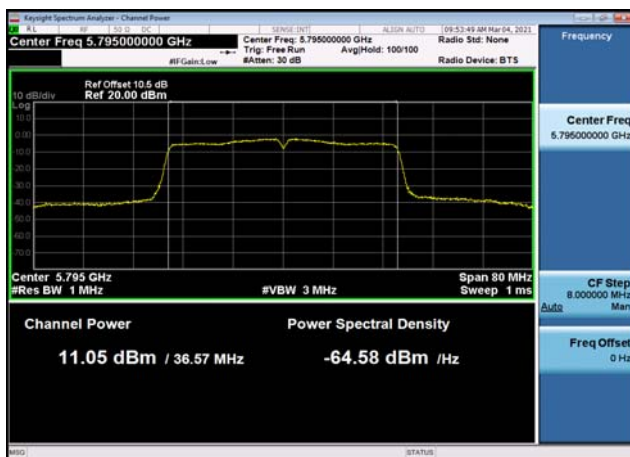
U-NII-3 Output Power-802.11ac(20MHz)
,5825MHz



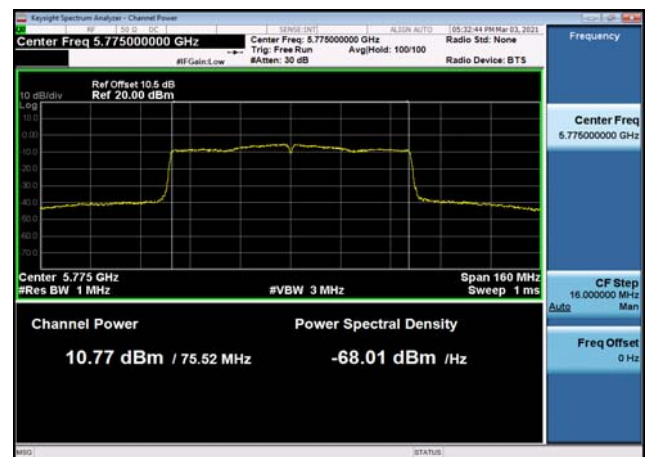
U-NII-3 Output Power-802.11ac(40MHz)
,5755MHz



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



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



AVGSA Power Spectral Density

Test Result and Data

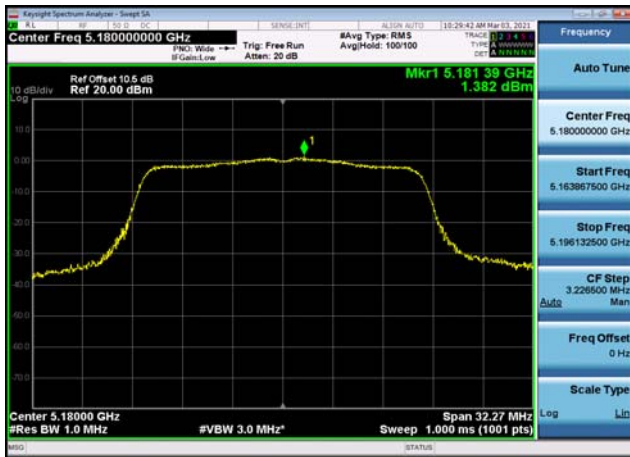
U-NII-1 AVGSA Power Spectral Density				
Mode	Test Frequency (MHz)	PSD (dBm/1MHz)	Limit (dBm/1MHz)	Result
802.11n (20MHz)	5180	1.382	11	Pass
802.11n (20MHz)	5220	1.855	11	Pass
802.11n (20MHz)	5240	0.576	11	Pass
802.11n (40MHz)	5190	-2.328	11	Pass
802.11n (40MHz)	5230	-3.017	11	Pass
802.11ac (20MHz)	5180	0.545	11	Pass
802.11ac (20MHz)	5220	0.745	11	Pass
802.11ac (20MHz)	5240	-0.255	11	Pass
802.11ac (40MHz)	5190	-2.428	11	Pass
802.11ac (40MHz)	5230	-2.531	11	Pass
802.11ac (80MHz)	5210	-5.976	11	Pass
802.11a (20MHz)	5180	2.499	11	Pass
802.11a (20MHz)	5220	1.942	11	Pass
802.11a (20MHz)	5240	1.540	11	Pass



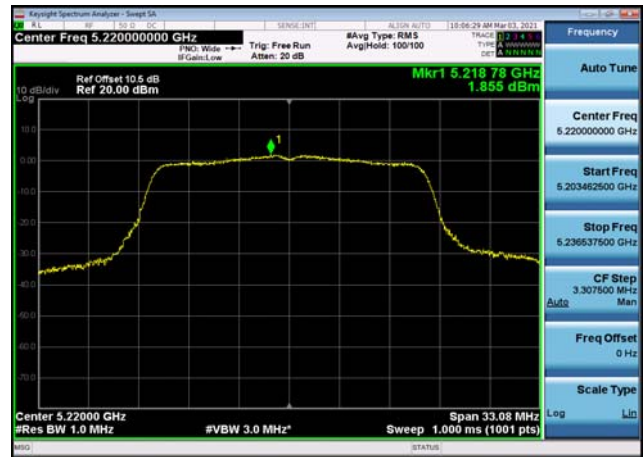
U-NII-3 AVGSA Power Spectral Density				
Mode	Test Frequency (MHz)	PSD (dBm/510KHz)	Limit (dBm/500KHz)	Result
802.11n (20MHz)	5745	-0.836	30	Pass
802.11n (20MHz)	5785	-1.398	30	Pass
802.11n (20MHz)	5825	-2.135	30	Pass
802.11n (40MHz)	5755	-4.553	30	Pass
802.11n (40MHz)	5795	-4.938	30	Pass
802.11ac (20MHz)	5745	-0.314	30	Pass
802.11ac (20MHz)	5785	-1.821	30	Pass
802.11ac (20MHz)	5825	-2.289	30	Pass
802.11ac (40MHz)	5755	-4.885	30	Pass
802.11ac (40MHz)	5795	-4.989	30	Pass
802.11ac (80MHz)	5775	-7.442	30	Pass
802.11a (20MHz)	5745	0.286	30	Pass
802.11a (20MHz)	5785	-0.189	30	Pass
802.11a (20MHz)	5825	-0.080	30	Pass

Test Plots

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



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



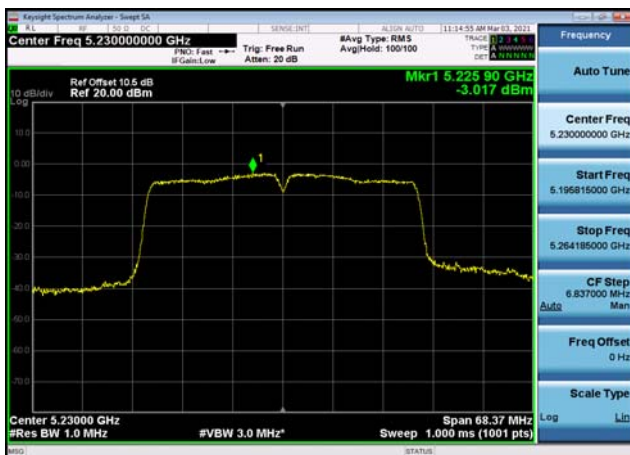
U-NII-1 Power spectral density-802.11
n(20MHz),5240MHz



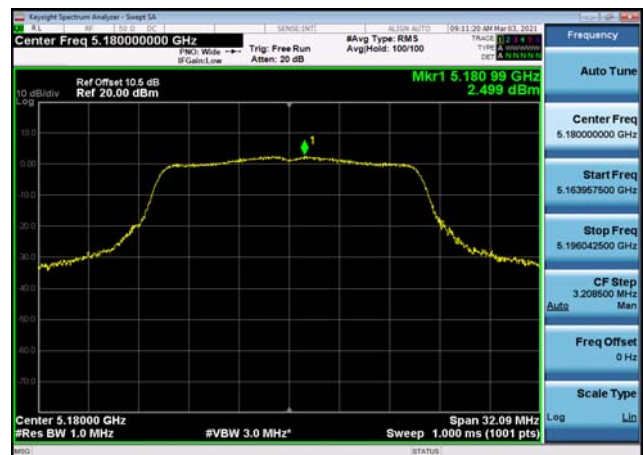
U-NII-1 Power spectral density-802.11
n(40MHz),5190MHz



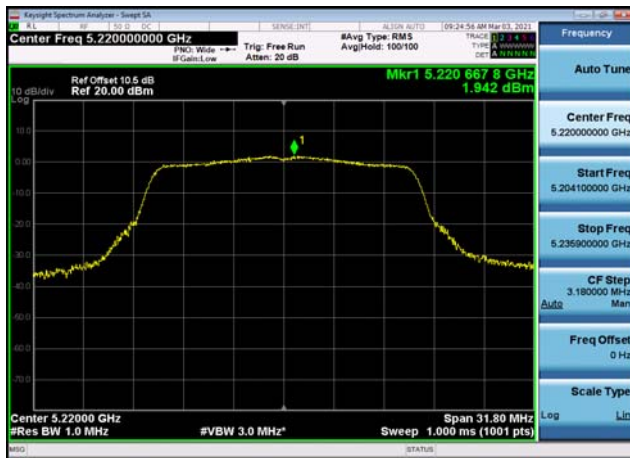
U-NII-1 Power spectral density-802.11
n(40MHz),5230MHz



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



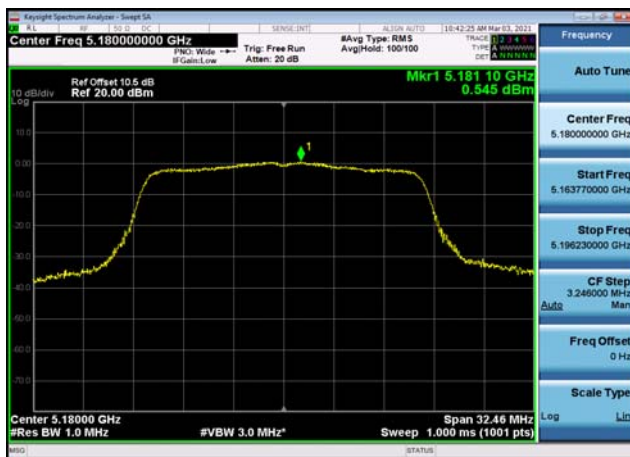
U-NII-1 Power spectral density-802.11
a(20MHz),5220MHz



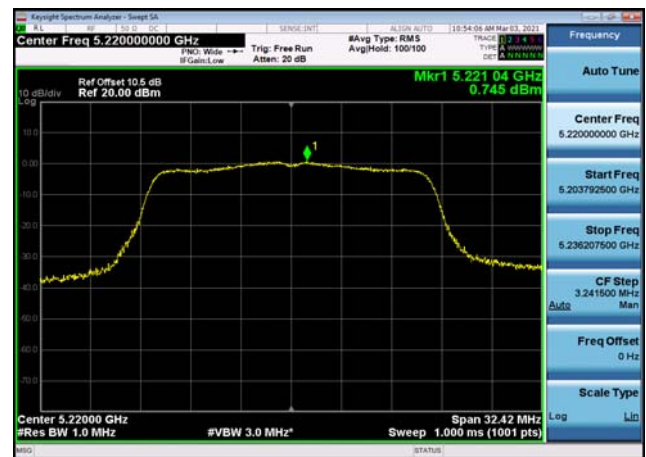
U-NII-1 Power spectral density-802.11
a(20MHz),5240MHz



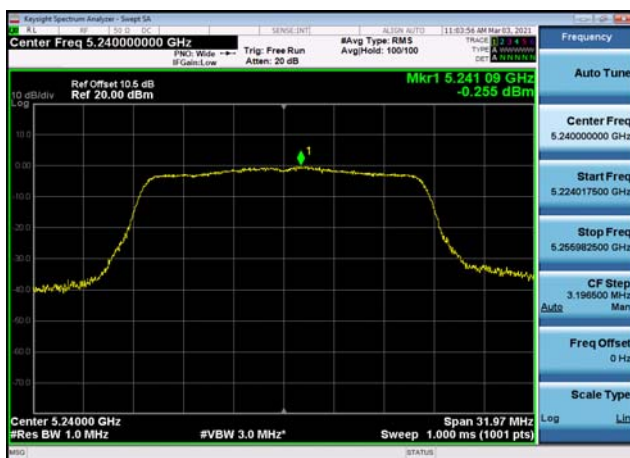
U-NII-1 Power spectral density-802.11
ac(20MHz),5180MHz



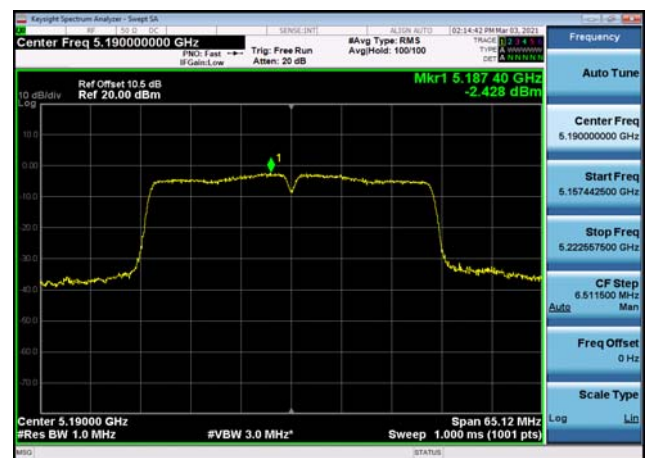
U-NII-1 Power spectral density-802.11
ac(20MHz),5220MHz



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



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



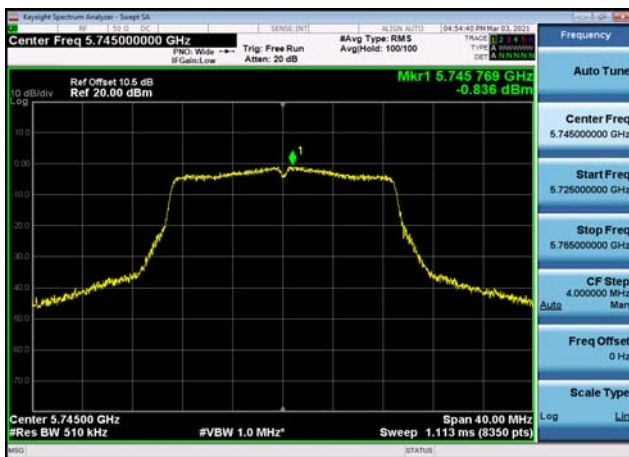
U-NII-1 Power spectral density-802.11
ac(40MHz),5230MHz



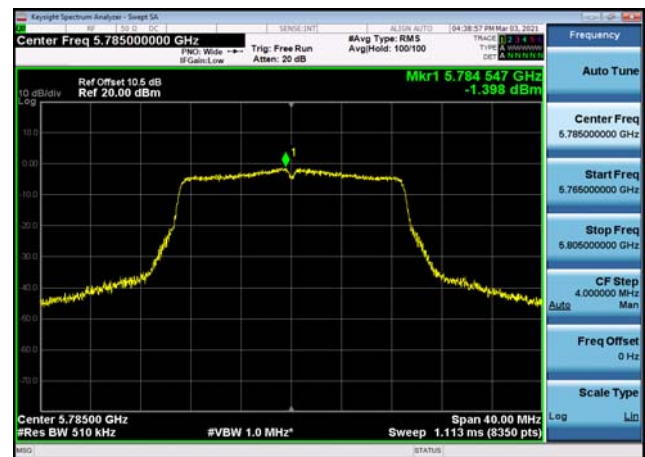
U-NII-1 Power spectral density-802.11
ac(80MHz),5210MHz



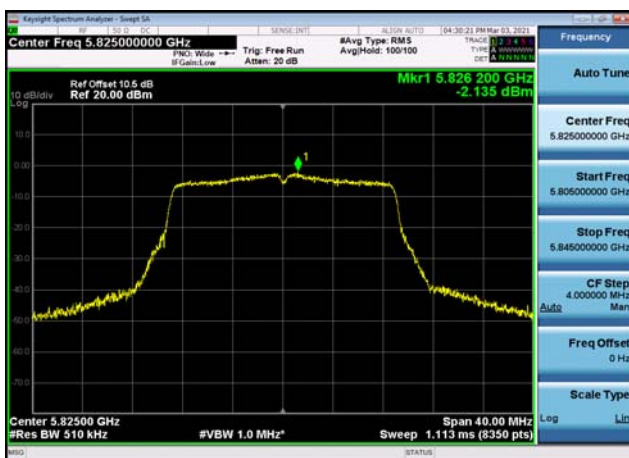
U-NII-3 Power spectral density-802.11
n(20MHz),5745MHz



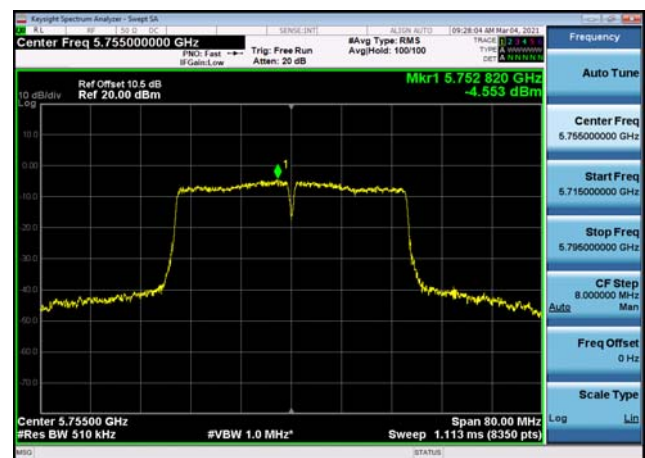
U-NII-3 Power spectral density-802.11
n(20MHz),5785MHz



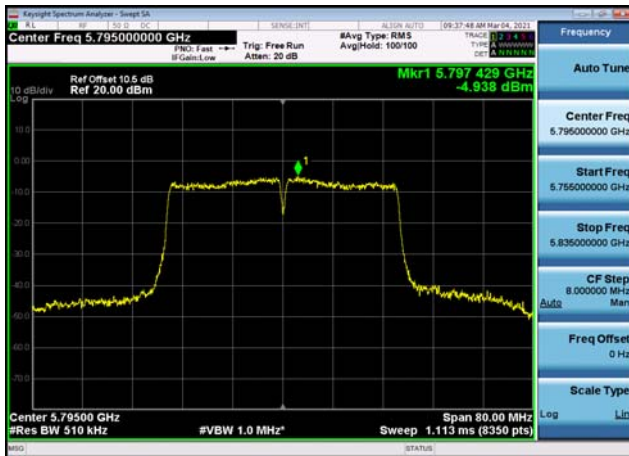
U-NII-3 Power spectral density-802.11
n(20MHz),5825MHz



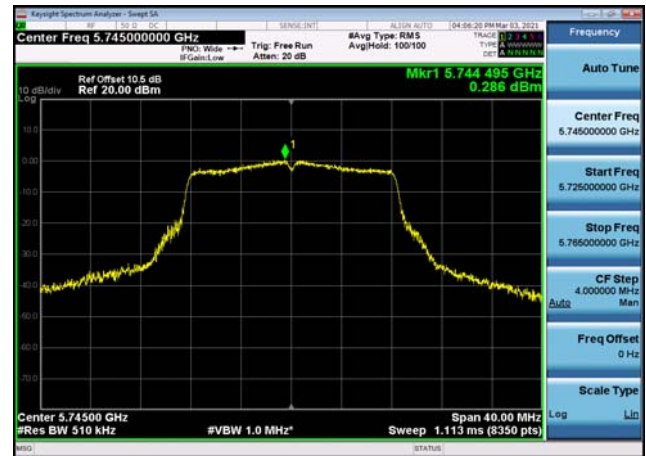
U-NII-3 Power spectral density-802.11
n(40MHz),5755MHz



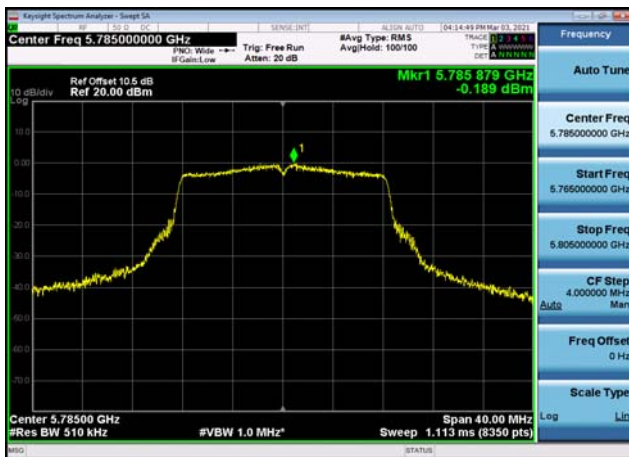
U-NII-3 Power spectral density-802.11
n(40MHz),5795MHz



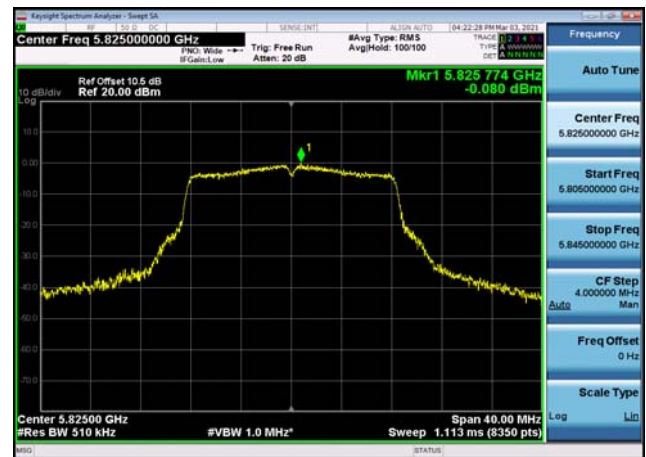
U-NII-3 Power spectral density-802.11
a(20MHz),5745MHz



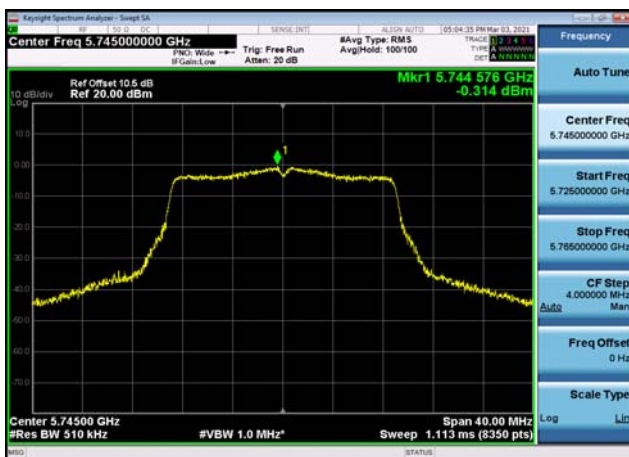
U-NII-3 Power spectral density-802.11
a(20MHz),5785MHz



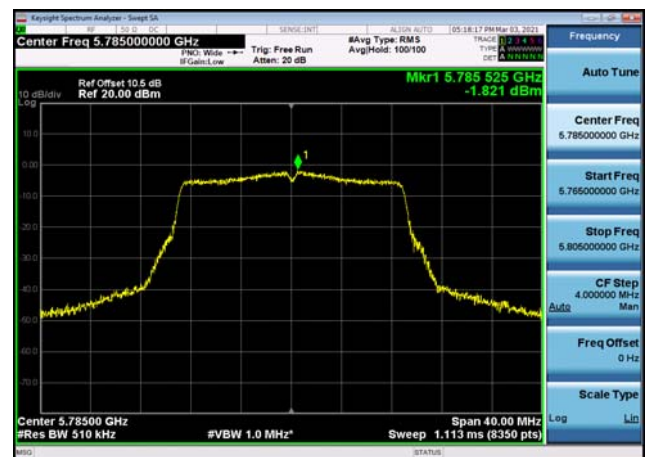
U-NII-3 Power spectral density-802.11
a(20MHz),5825MHz



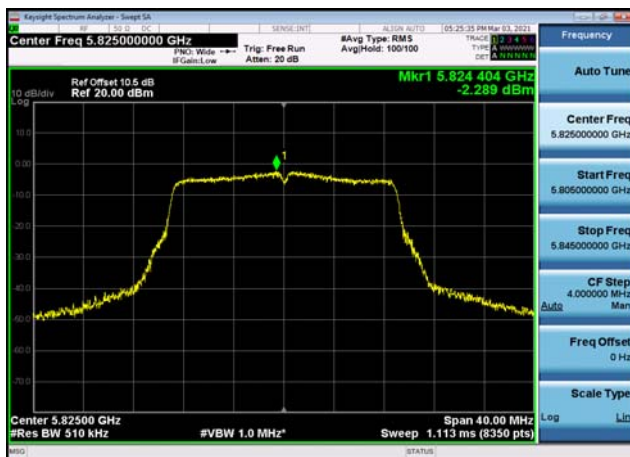
U-NII-3 Power spectral density-802.11
ac(20MHz),5745MHz



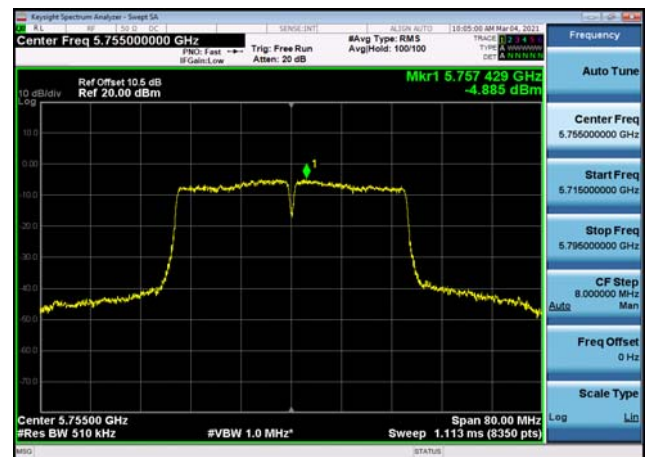
U-NII-3 Power spectral density-802.11
ac(20MHz),5785MHz



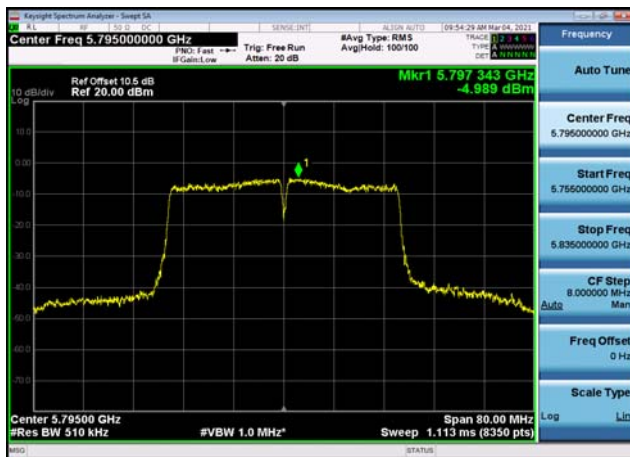
U-NII-3 Power spectral density-802.11
ac(20MHz),5825MHz



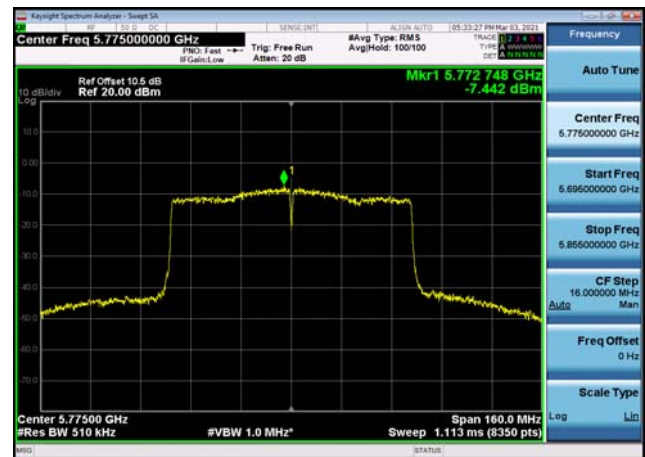
U-NII-3 Power spectral density-802.11
ac(40MHz),5755MHz



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



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



6dB and 26dB Down Bandwidth

Test Result and Data

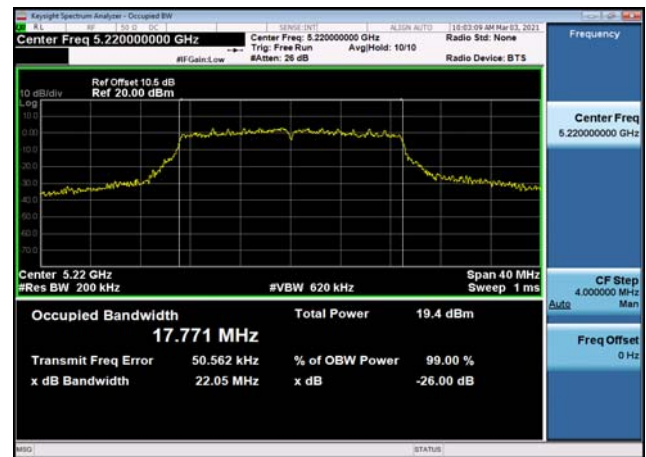
U-NII-1 Occupied 26dB Bandwidth				
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)		Result
802.11n (20MHz)	5180	21.51		Pass
802.11n (20MHz)	5220	22.05		Pass
802.11n (20MHz)	5240	22.01		Pass
802.11n (40MHz)	5190	52.50		Pass
802.11n (40MHz)	5230	45.58		Pass
802.11ac (20MHz)	5180	21.64		Pass
802.11ac (20MHz)	5220	21.61		Pass
802.11ac (20MHz)	5240	21.31		Pass
802.11ac (40MHz)	5190	43.41		Pass
802.11ac (40MHz)	5230	42.08		Pass
802.11ac (80MHz)	5210	90.44		Pass
802.11a (20MHz)	5180	21.39		Pass
802.11a (20MHz)	5220	21.20		Pass
802.11a (20MHz)	5240	21.28		Pass
U-NII-3 Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (KHz)	Result
802.11n (20MHz)	5745	17.01	500	Pass
802.11n (20MHz)	5785	16.90	500	Pass
802.11n (20MHz)	5825	17.34	500	Pass
802.11n (40MHz)	5755	35.32	500	Pass
802.11n (40MHz)	5795	35.73	500	Pass
802.11ac (20MHz)	5745	17.02	500	Pass
802.11ac (20MHz)	5785	16.65	500	Pass
802.11ac (20MHz)	5825	17.24	500	Pass
802.11ac (40MHz)	5755	35.26	500	Pass
802.11ac (40MHz)	5795	35.24	500	Pass
802.11ac (80MHz)	5775	75.33	500	Pass
802.11a (20MHz)	5745	16.32	500	Pass
802.11a (20MHz)	5785	16.34	500	Pass
802.11a (20MHz)	5825	16.35	500	Pass

Test Plots

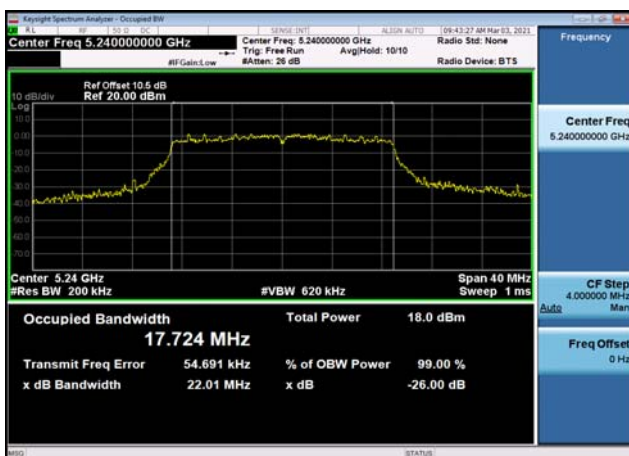
U-NII-1 26dB Bandwidth-802.11n(20MHz)
,5180MHz



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



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



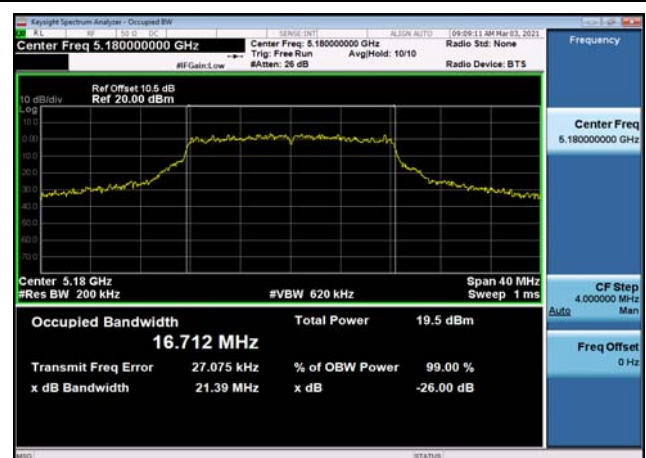
U-NII-1 26dB Bandwidth-802.11n(40MHz)
,5190MHz



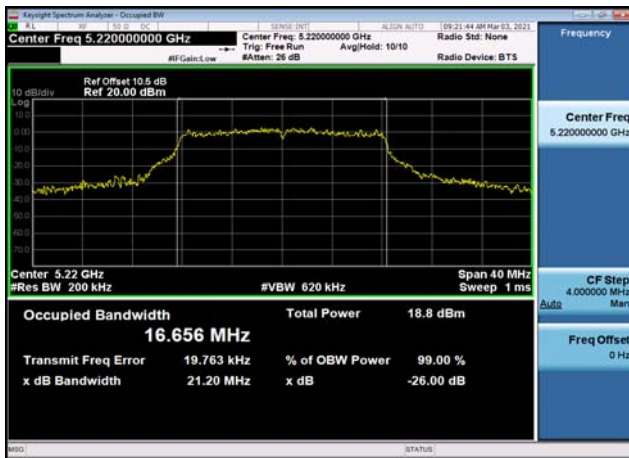
U-NII-1 26dB Bandwidth-802.11n(40MHz)
,5230MHz



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



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



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



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



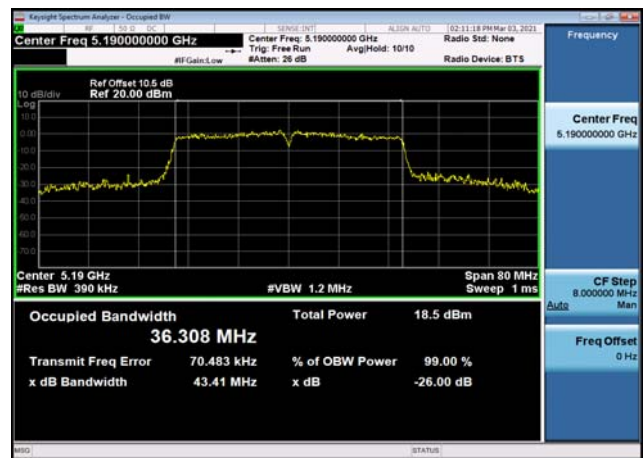
U-NII-1 26dB Bandwidth-802.11ac(20MHz)
,5220MHz



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



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



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



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



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



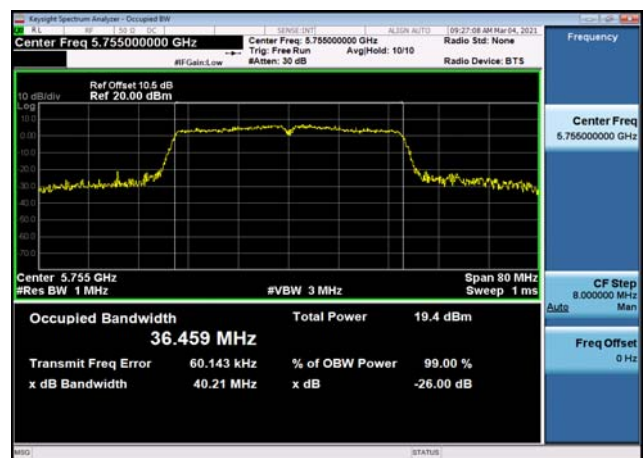
U-NII-3 99% Bandwidth-802.11n(20MHz)
,5785MHz



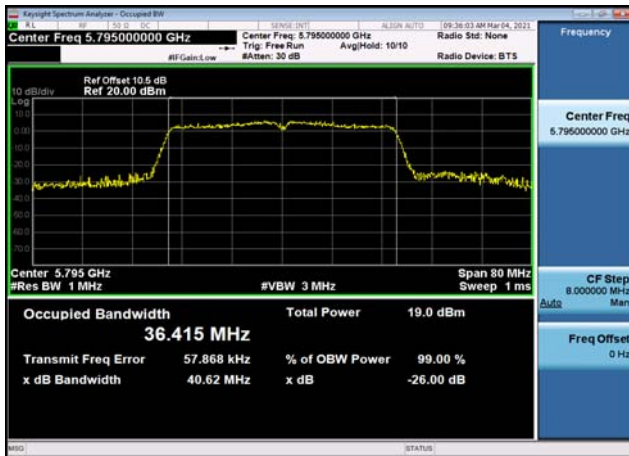
U-NII-3 99% Bandwidth-802.11n(20MHz)
,5825MHz



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



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



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



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



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



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



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



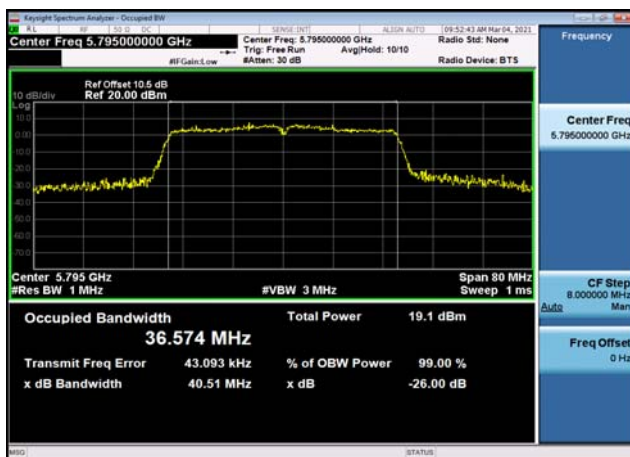
U-NII-3 99% Bandwidth-802.11ac(20MHz)
,5825MHz



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



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



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



Frequency Stability

U-NII-1

U-NII-1 Centre Frequency							
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Freq Stability (ppm)	Test Result
802.11n (20MHz)	5180	Ant1	5171.170	5188.927	5180.048	9.330	Pass
802.11n (20MHz)	5220	Ant1	5211.189	5228.936	5220.063	11.970	Pass
802.11n (20MHz)	5240	Ant1	5231.153	5248.922	5240.038	7.160	Pass
802.11n (40MHz)	5190	Ant1	5171.811	5208.288	5190.050	9.540	Pass
802.11n (40MHz)	5230	Ant1	5211.804	5248.324	5230.064	12.190	Pass
802.11ac (20MHz)	5180	Ant1	5171.175	5188.930	5180.053	10.140	Pass
802.11ac (20MHz)	5220	Ant1	5211.186	5228.939	5220.063	11.970	Pass
802.11ac (20MHz)	5240	Ant1	5231.183	5248.928	5240.055	10.580	Pass
802.11ac (40MHz)	5190	Ant1	5171.799	5208.312	5190.056	10.690	Pass
802.11ac (40MHz)	5230	Ant1	5211.778	5248.311	5230.044	8.460	Pass
802.11ac (80MHz)	5210	Ant1	5171.853	5248.223	5210.038	7.360	Pass
802.11a (20MHz)	5180	Ant1	5171.782	5188.335	5180.058	11.260	Pass
802.11a (20MHz)	5220	Ant1	5211.768	5228.345	5220.056	10.780	Pass
802.11a (20MHz)	5240	Ant1	5231.776	5248.348	5240.062	11.770	Pass

U-NII-3

U-NII-3 Centre Frequency							
Mode	Test Frequency (MHz)	Ant	LF (MHz)	HF (MHz)	CF (MHz)	Freq Stability (ppm)	Test Result
802.11n (20MHz)	5745	Ant1	5736.191	5753.944	5745.068	11.750	Pass
802.11n (20MHz)	5785	Ant1	5776.180	5793.973	5785.077	13.250	Pass
802.11n (20MHz)	5825	Ant1	5816.168	5833.957	5825.062	10.660	Pass
802.11n (40MHz)	5755	Ant1	5736.831	5773.293	5755.062	10.690	Pass
802.11n (40MHz)	5795	Ant1	5776.834	5813.329	5795.081	13.980	Pass
802.11ac (20MHz)	5745	Ant1	5736.171	5753.948	5745.060	10.370	Pass
802.11ac (20MHz)	5785	Ant1	5776.195	5793.947	5785.071	12.240	Pass
802.11ac (20MHz)	5825	Ant1	5816.208	5833.959	5825.083	14.310	Pass
802.11ac (40MHz)	5755	Ant1	5736.837	5773.272	5755.054	9.380	Pass
802.11ac (40MHz)	5795	Ant1	5776.795	5813.287	5795.041	6.990	Pass
802.11ac (80MHz)	5775	Ant1	5736.837	5813.240	5775.038	6.640	Pass
802.11a (20MHz)	5745	Ant1	5736.795	5753.338	5745.066	11.530	Pass
802.11a (20MHz)	5785	Ant1	5776.776	5793.345	5785.060	10.440	Pass
802.11a (20MHz)	5825	Ant1	5816.784	5833.343	5825.064	10.940	Pass

Note: The worst data reported only.