



RF TEST REPORT

Report No.: SET2018-16121

Product Name: LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone

FCC ID: SRQ-BLADEV10M

Model No. : ZTE Blade V10

Applicant: ZTE Corporation.

Address: ZTE Plaza, Keji Road South, Shenzhen, China

Dates of Testing: 12/10/2018—01/10/2019

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co.,
Ltd.

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Test Report

Product Name : LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile
Phone

Brand Name : ZTE

Trade Name : ZTE

Applicant : ZTE Corporation.

Applicant Address : ZTE Plaza, Keji Road South, Shenzhen, China

Manufacturer : ZTE Corporation.

Manufacturer Address : ZTE Plaza, Keji Road South, Shenzhen, China

Test Standards : 47 CFR Part 15 Subpart E 15.407

Test Result : PASS

Tested by :

2019.01.10

Shallwe Yang, Test Engineer

Reviewed by :

2019.01.10

Chris You, Senior Engineer

Approved by :

2019.01.10

Shuangwen Zhang, Manager

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Change History		
Issue	Date	Reason for change
1.0	2019.01.10	First edition

1. General Information

1.1. EUT Description

EUT Type	LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone
EUT supports Radios application	WLAN5.0GHz 802.11a/n (HT20/40)/ac(VHT20/40/80)
Product Type	Indoor
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 135 Mbps 802.11ac: up to V9
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	5150 MHz ~ 5250MHz/5725 MHz ~ 5850MHz:4/5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 2 for 802.11n (HT40), 802.11ac(VHT40), 1 for 802.11ac (VHT80)
Antenna Type	Internal
Antenna Gain	-3.5dBi
Output Power (Max.)	Band UNII-1: 14.81 dBm Band UNII-3: 10.95dBm
Adapter	AC Adapter 1# Model No.: STC-A51A-Z I/p: 100-240V~50/60Hz ,300mA O/p: 5.0V --- 1500mA Manufacturer :MADE IN CHINA BY DOKOCOM AC Adapter 2# Model No.: STC-A51A-Z I/p: 100-240V~50/60Hz ,300mA O/p: 5.0V --- 1500mA Manufacturer :MADE IN CHINA BY CHENYANG AC Adapter 3# Model No.: STC-A51A-Z I/p: 100-240V~50/60Hz ,300mA O/p: 5.0V --- 1500mA Manufacturer :MADE IN CHINA BY RUIJING

Note: For conduction and radiation emission test the worst case of adapter 1# reported only.

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	KDB Publication 789033D02v02	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
6	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
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 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	15	15	15
Frequency (MHz)	5180	5220	5240
N20 mode	17	17	17
Frequency (MHz)	5190	5230	\
N40 mode	14	14	\
Frequency (MHz)	5180	5220	5240
AC20 mode	15	15	
Frequency (MHz)	5190	5230	\
AC40 mode	14	14	\
Frequency (MHz)	5210	\	\
AC80 mode	15	\	\
Power level setup in software for 5G wifi			
UNII-3			
Frequency (MHz)	5745	5785	5825
A mode	15	15	15
Frequency (MHz)	5745	5785	5825
N20 mode	15	15	15
Frequency (MHz)	5755	5795	\
N40 mode	15	15	\
Frequency (MHz)	5745	5785	5825
AC20 mode	15	15	15
Frequency (MHz)	5755	5795	\
AC40 mode	15	15	\
Frequency (MHz)	5775	\	\
AC80 mode	15	\	\



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, 2019.

ISED Registration: 11185A-1

CCIC Southern Electronic Product Testing (Shenzhen) 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 Aug. 03, 2019.

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 Type	Internal
Antenna Gain	-3.5dBi

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)

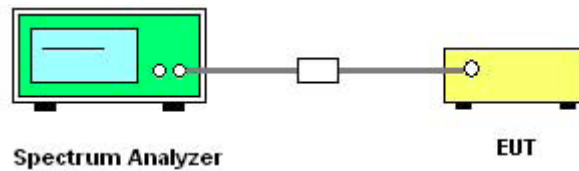
The maximum conducted output power should not exceed:

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 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

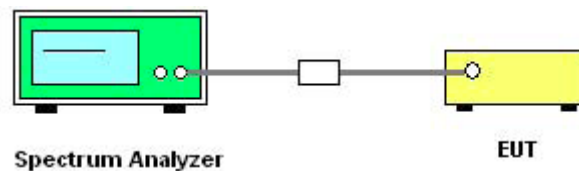
There is no limit bandwidth for bandU-NII-1, U-NII-2A and U-NII-2C.

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 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 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)

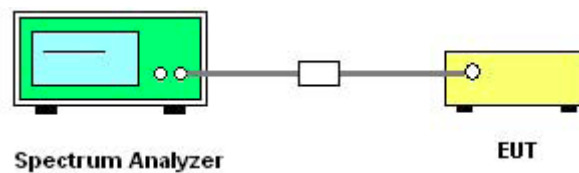
The maximum power spectral density should not exceed:

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 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, 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

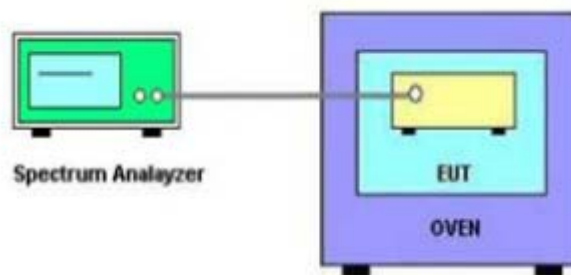
2.5.1. Limit

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 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
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:

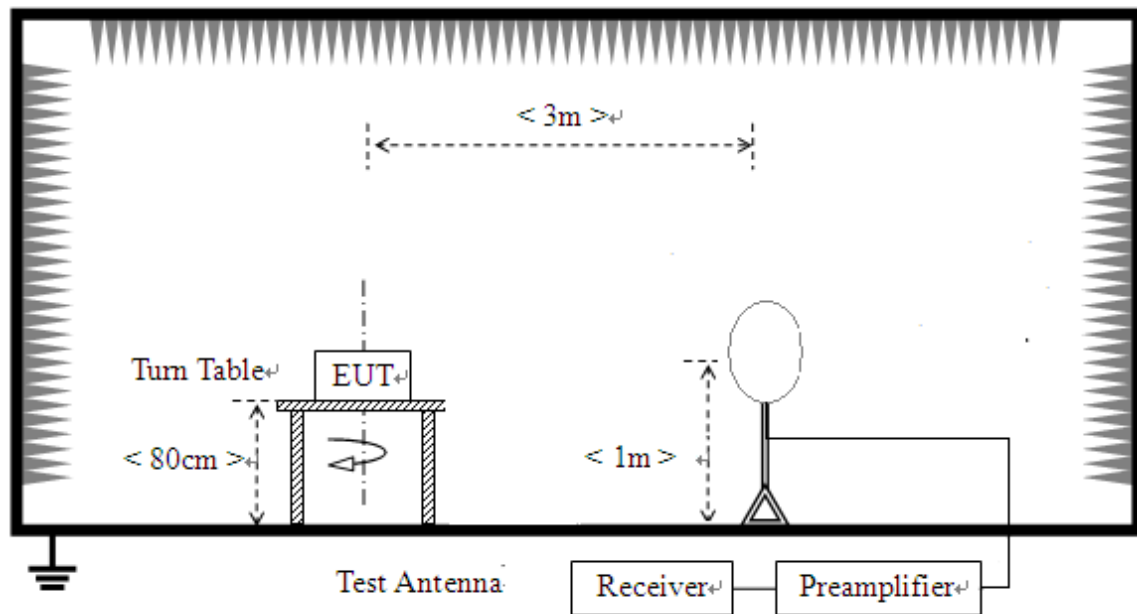
$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

2.6.2. Measuring Instruments

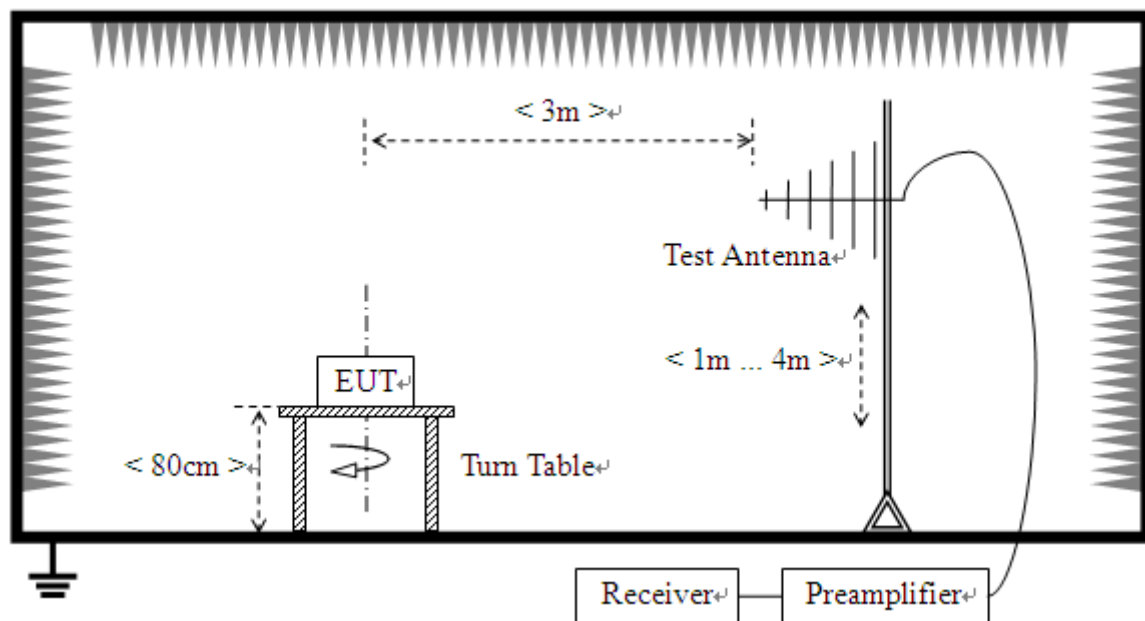
The measuring equipment is listed in the section 3 of this test report.

2.6.3. Test Setup

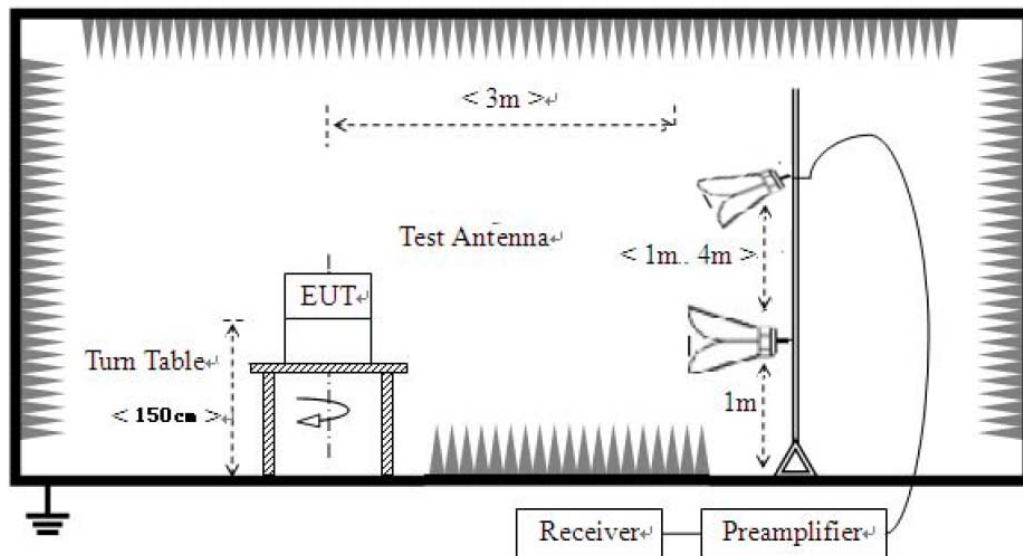
For radiated emissions from 9 KHz to 30 MHz



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:

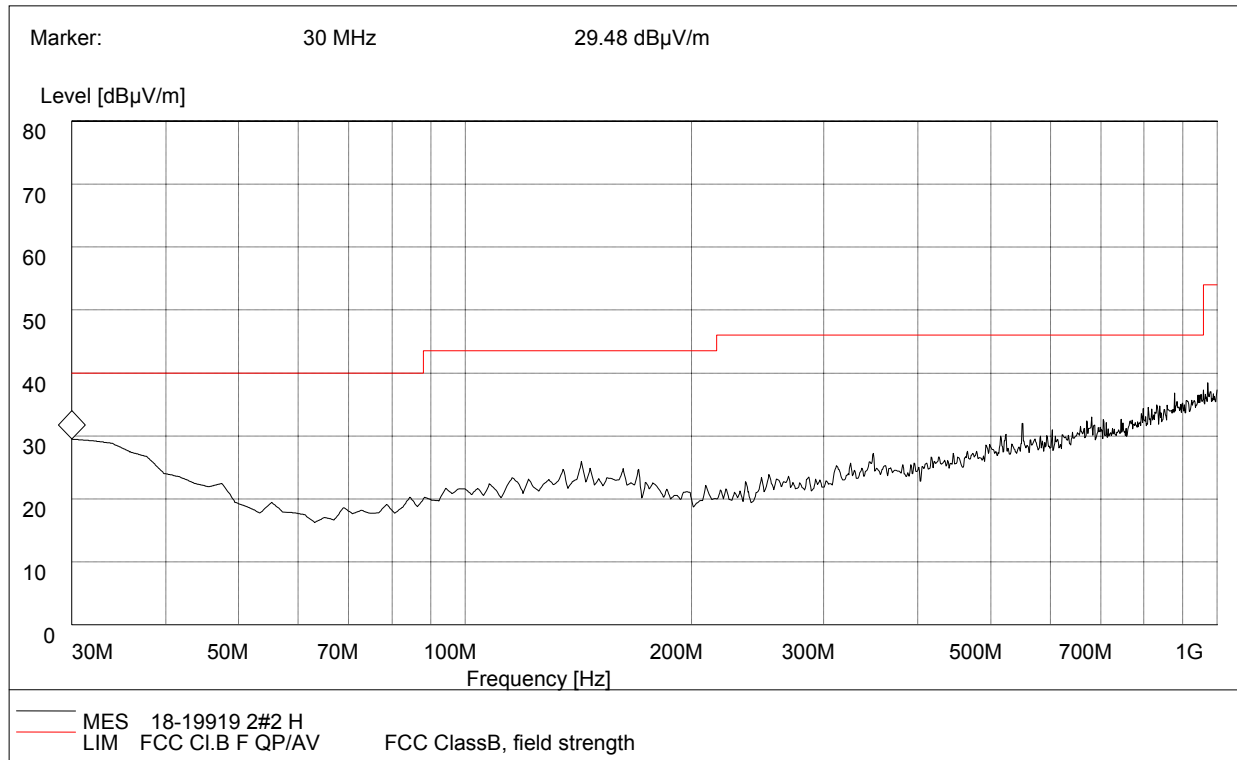
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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.

2.6.5. Test Results of Radiated Band Edge and Spurious Emission

For 9 KHz to 30MHz

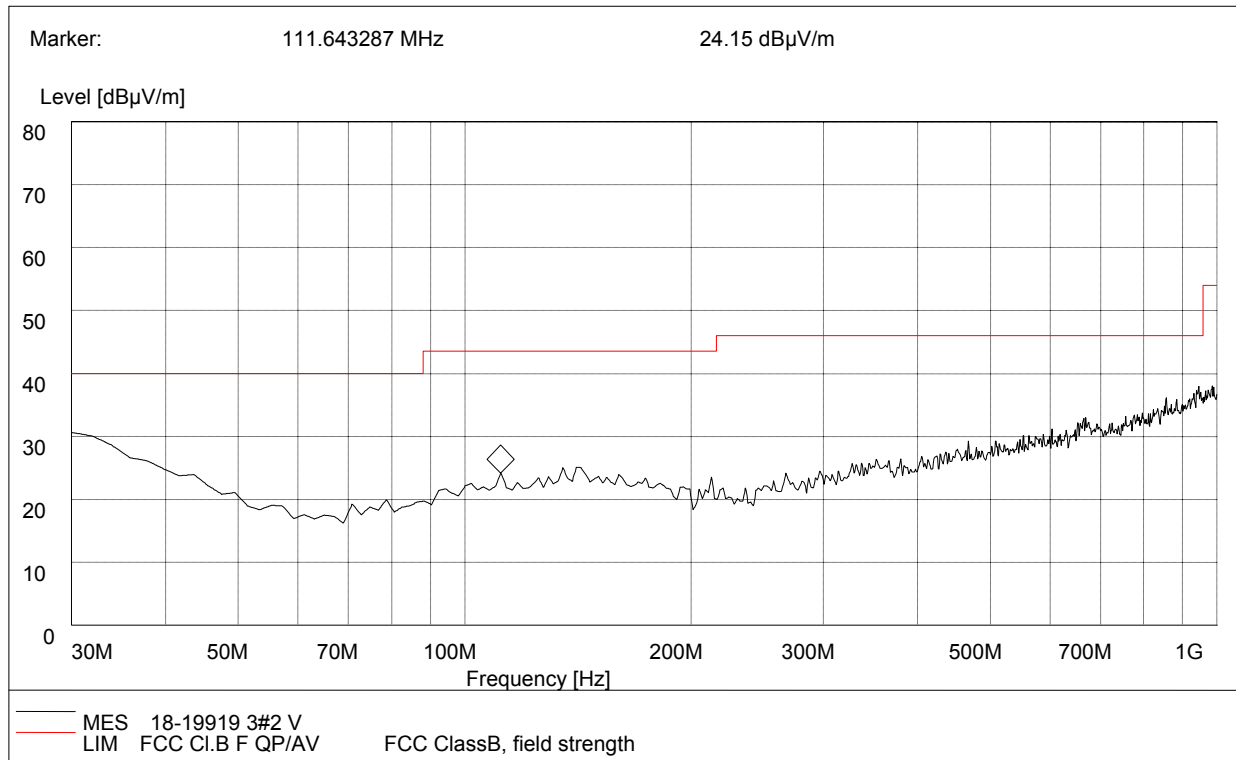
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
30.00	29.48	120.000	200.0	40.00	Horizontal	Pass



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Antenna	Verdict
111.64	24.15	120.000	200.0	43.5	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	49.90	PK	74.00	-24.10	1.00	67	42.40	7.50
2	5150.00	39.60	AV	54.00	-14.40	1.00	67	32.10	7.50
3	10360.00	62.84	PK	68.20	-5.36	2.00	180	43.04	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	49.24	PK	74.00	-24.76	2.50	150	41.74	7.50
2	5150.00	39.26	AV	54.00	-14.74	2.50	150	31.76	7.50
3	10360.00	60.51	PK	68.20	-7.69	1.50	0	40.71	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	59.96	PK	68.20	-8.24	1.50	180	40.06	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	60.34	PK	68.20	-7.86	1.50	0	40.44	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	49.79	PK	74.00	-24.21	1.50	360	41.79	8.00
2	5350.00	39.44	AV	54.00	-14.56	1.50	360	31.44	8.00
3	10480.00	61.24	PK	68.20	-6.96	2.00	180	41.34	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	49.28	PK	74.00	-24.72	2.00	180	41.28	8.00
2	5350.00	39.14	AV	54.00	-14.86	2.00	180	31.14	8.00
3	10480.00	60.78	PK	68.20	-7.42	2.00	180	40.88	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	50.61	PK	68.20	-17.59	1.00	360	40.96	9.65
2	11490.00	58.00	PK	74.00	-16	2.00	180	36.30	21.70
3	11490.00	48.48	AV	54.00	-5.52	2.00	180	26.78	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	50.44	PK	68.20	-17.76	1.00	360	40.79	9.65
2	11490.00	56.64	PK	74.00	-17.36	1.50	0	34.94	21.70
3	11490.00	47.10	AV	54.00	-6.9	1.50	0	25.40	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	56.64	PK	74.00	-17.36	1.50	180	34.94	21.70
2	11570.00	46.96	AV	54.00	-7.04	1.50	180	25.26	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	57.35	PK	74.00	-16.65	1.00	180	35.65	21.70
2	11570.00	48.77	AV	54.00	-5.23	1.00	180	27.07	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	49.88	PK	68.20	-18.32	1.50	150	40.10	9.78
2	11650.00	58.15	PK	74.00	-15.85	1.50	360	36.25	21.90
3	11650.00	48.80	AV	54.00	-5.2	1.50	360	26.90	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	49.29	PK	68.20	-18.91	2.00	180	39.51	9.78
2	11650.00	58.84	PK	74.00	-15.16	1.80	360	36.94	21.90
3	11650.00	49.30	AV	54.00	-4.7	1.80	360	27.40	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	47.95	PK	74.00	-26.05	1.50	100	40.45	7.50
2	5150.00	37.65	AV	54.00	-16.35	2.00	180	30.15	7.50
3	10360.00	59.99	PK	68.20	-8.21	1.50	180	40.19	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	48.87	PK	74.00	-25.13	2.50	150	41.37	7.50
2	5150.00	38.89	AV	54.00	-15.11	2.50	150	31.39	7.50
3	10360.00	60.74	PK	68.20	-7.46	1.50	0	40.94	19.80

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_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	58.98	PK	68.20	-9.22	1.50	180	39.08	19.90

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_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	58.77	PK	68.20	-9.43	1.50	0	38.87	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	48.57	PK	74.00	-25.43	1.50	360	40.57	8.00
2	5350.00	38.22	AV	54.00	-15.78	1.50	360	30.22	8.00
3	10480.00	60.55	PK	68.20	-7.65	1.50	120	40.65	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	49.52	PK	74.00	-24.48	2.00	180	41.52	8.00
2	5350.00	39.38	AV	54.00	-14.62	2.00	180	31.38	8.00
3	10480.00	60.86	PK	68.20	-7.34	2.00	100	40.96	19.90

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11n20_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	53.36	PK	68.20	-14.84	1.50	220	43.71	9.65
2	11490.00	59.63	PK	74.00	-14.37	1.50	220	37.93	21.70
3	11490.00	50.11	AV	54.00	-3.89	1.50	220	28.41	21.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11n20_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	54.26	PK	68.20	-13.94	1.80	360	44.61	9.65
2	11490.00	58.84	PK	74.00	-15.16	1.50	120	37.14	21.70
3	11490.00	49.30	AV	54.00	-4.7	1.50	120	27.60	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	56.62	PK	74.00	-17.38	1.50	100	34.92	21.70
2	11570.00	46.94	AV	54.00	-7.06	1.50	100	25.24	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	55.63	PK	74.00	-18.37	1.00	360	33.93	21.70
2	11570.00	47.05	AV	54.00	-6.95	1.00	360	25.35	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	51.22	PK	68.20	-16.98	1.50	150	41.44	9.78
2	11650.00	58.95	PK	74.00	-15.05	1.50	360	37.05	21.90
3	11650.00	49.60	AV	54.00	-4.4	1.50	360	27.70	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	50.36	PK	68.20	-17.84	2.00	180	40.58	9.78
2	11650.00	60.02	PK	74.00	-13.98	1.80	360	38.12	21.90
3	11650.00	50.48	AV	54.00	-3.52	1.80	360	28.58	21.90

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

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	65.95	PK	74.00	-8.05	1.50	360.00	58.45	7.50
2	5150.00	51.47	AV	54.00	-2.53	1.50	360.00	43.97	7.50
3	10380.00	60.97	PK	68.20	-7.23	2.00	150.00	41.17	19.80

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

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	63.15	PK	74.00	-10.85	2.00	180.00	55.65	7.50
2	5150.00	49.43	AV	54.00	-4.57	2.00	180.00	41.93	7.50
3	10380.00	58.78	PK	68.20	-9.42	2.00	150.00	38.98	19.80

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

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	60.14	PK	74.00	-13.86	2.00	0.00	52.14	8.00
2	5350.00	49.79	AV	54.00	-4.21	2.00	90.00	41.79	8.00
3	10460.00	59.25	PK	68.20	-8.95	1.50	0.00	39.35	19.90

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

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	60.47	PK	74.00	-13.53	1.50	180.00	52.47	8.00
2	5350.00	50.33	AV	54.00	-3.67	1.50	180.00	42.33	8.00
3	10460.00	59.97	PK	68.20	-8.23	1.50	150.00	40.07	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	59.97	PK	74.00	-14.03	1.50	220.00	50.32	9.65
2	5725.00	49.23	AV	54.00	-4.77	1.50	220.00	39.58	9.65
3	11510.00	58.74	PK	68.20	-9.46	1.80	360.00	37.04	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	60.71	PK	74.00	-13.29	2.00	180.00	51.06	9.65
2	5725.00	50.06	AV	54.00	-3.94	2.00	180.00	40.41	9.65
3	11510.00	59.78	PK	68.20	-8.42	1.50	200.00	38.08	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	61.15	PK	74.00	-12.85	1.50	0.00	51.37	9.78
2	5850.00	50.41	AV	54.00	-3.59	1.50	0.00	40.63	9.78
3	11590.00	59.38	PK	68.20	-8.82	2.00	360.00	37.58	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	60.35	PK	74.00	-13.65	1.80	180.00	50.57	9.78
2	5850.00	49.70	AV	54.00	-4.3	1.80	180.00	39.92	9.78
3	11590.00	58.78	PK	68.20	-9.42	1.50	360.00	36.98	21.80

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	49.09	PK	74.00	-24.91	1.00	100	41.59	7.50
2	5150.00	38.09	AV	54.00	-15.91	1.00	100	30.59	7.50
3	10360.00	60.89	PK	68.20	-7.31	1.50	180	41.09	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	49.89	PK	74.00	-24.11	1.00	354	42.39	7.50
2	5150.00	38.26	AV	54.00	-15.74	1.00	354	30.76	7.50
3	10360.00	60.74	PK	68.20	-7.46	1.50	0	40.94	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	59.87	PK	68.20	-8.33	2.00	0	39.97	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	60.35	PK	68.20	-7.85	1.50	125	40.45	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	48.57	PK	74.00	-25.43	1.50	360	40.57	8.00
2	5350.00	38.22	AV	54.00	-15.78	1.50	360	30.22	8.00
3	10480.00	62.12	PK	68.20	-6.08	1.50	120	42.22	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	49.95	PK	74.00	-24.05	2.00	180	41.95	8.00
2	5350.00	39.81	AV	54.00	-14.19	2.00	180	31.81	8.00
3	10480.00	64.37	PK	68.20	-3.83	2.00	100	44.47	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	59.97	PK	68.20	-8.23	1.00	360	50.32	9.65
2	11490.00	58.87	PK	74.00	-15.13	2.00	180	37.17	21.70
3	11490.00	49.35	AV	54.00	-4.65	2.00	180	27.65	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	60.78	PK	68.20	-7.42	1.00	360	51.13	9.65
2	11490.00	59.66	PK	74.00	-14.34	1.50	0	37.96	21.70
3	11490.00	50.12	AV	54.00	-3.88	1.50	0	28.42	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	61.25	PK	74.00	-12.75	1.50	100	39.55	21.70
2	11570.00	51.57	AV	54.00	-2.43	1.50	100	29.87	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	60.68	PK	74.00	-13.32	1.00	360	38.98	21.70
2	11570.00	52.10	AV	54.00	-1.9	1.00	360	30.40	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	61.54	PK	68.20	-6.66	1.50	150	51.76	9.78
2	11650.00	60.00	PK	74.00	-14	1.50	360	38.10	21.90
3	11650.00	50.65	AV	54.00	-3.35	1.50	360	28.75	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	60.15	PK	68.20	-8.05	2.00	180	50.37	9.78
2	11650.00	58.98	PK	74.00	-15.02	1.80	360	37.08	21.90
3	11650.00	49.44	AV	54.00	-4.56	1.80	360	27.54	21.90

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	57.12	PK	74.00	-16.88	1.50	360.00	49.62	7.50
2	5150.00	44.34	AV	54.00	-9.66	1.50	360.00	36.84	7.50
3	10380.00	63.05	PK	68.20	-5.15	2.00	150.00	43.25	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	58.09	PK	74.00	-15.91	2.00	180.00	50.59	7.50
2	5150.00	44.70	AV	54.00	-9.3	2.00	180.00	37.20	7.50
3	10380.00	60.77	PK	68.20	-7.43	1.50	0.00	40.97	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	49.51	PK	74.00	-24.49	2.00	0.00	41.51	8.00
2	5350.00	37.85	AV	54.00	-16.15	2.00	90.00	29.85	8.00
3	10460.00	61.92	PK	68.20	-6.28	1.50	0.00	42.02	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	48.71	PK	74.00	-25.29	1.50	180.00	40.71	8.00
2	5350.00	38.57	AV	54.00	-15.43	1.50	180.00	30.57	8.00
3	10460.00	61.66	PK	68.20	-6.54	1.50	150.00	41.76	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	60.58	PK	74.00	-13.42	1.50	100.00	50.93	9.65
2	5725.00	49.84	AV	54.00	-4.16	1.50	100.00	40.19	9.65
3	11510.00	59.78	PK	68.20	-8.42	2.00	150.00	38.08	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	60.05	PK	74.00	-13.95	2.00	180.00	50.40	9.65
2	5725.00	49.40	AV	54.00	-4.6	2.00	180.00	39.75	9.65
3	11510.00	58.98	PK	68.20	-9.22	1.50	200.00	37.28	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	61.58	PK	74.00	-12.42	1.50	0.00	51.80	9.78
2	5850.00	50.84	AV	54.00	-3.16	1.50	0.00	41.06	9.78
3	11590.00	60.74	PK	68.20	-7.46	2.00	360.00	38.94	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	61.11	PK	74.00	-12.89	1.80	180.00	51.33	9.78
2	5850.00	50.46	AV	54.00	-3.54	1.80	180.00	40.68	9.78
3	11590.00	60.25	PK	68.20	-7.95	1.50	360.00	38.45	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	62.78	PK	74.00	-11.22	1.00	61.00	55.28	7.50
2	5150.00	49.30	AV	54.00	-4.70	1.00	61.00	41.80	7.50
3	10420.00	57.74	PK	68.20	-10.46	2.50	180.00	37.84	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	60.01	PK	74.00	-13.99	1.00	67.00	52.51	7.50
2	5150.00	48.33	AV	54.00	-5.67	1.00	67.00	40.83	7.50
3	10420.00	60.96	PK	68.20	-7.24	2.50	180.00	41.06	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	55.65	PK	74.00	-18.35	1.80	120.00	45.87	9.78
2	5460.00	47.91	AV	54.00	-6.09	1.80	120.00	38.13	9.78
3	11550.00	53.39	PK	74.00	-20.61	1.20	120.00	31.59	21.80
4	11550.00	45.65	AV	54.00	-8.35	1.20	120.00	23.85	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	57.95	PK	74.00	-16.05	2.00	120.00	48.17	9.78
2	5460.00	49.30	AV	54.00	-4.70	2.00	120.00	39.52	9.78
3	11550.00	54.32	PK	74.00	-19.68	2.00	180.00	32.52	21.80
4	11550.00	46.74	AV	54.00	-7.26	2.00	180.00	24.94	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,

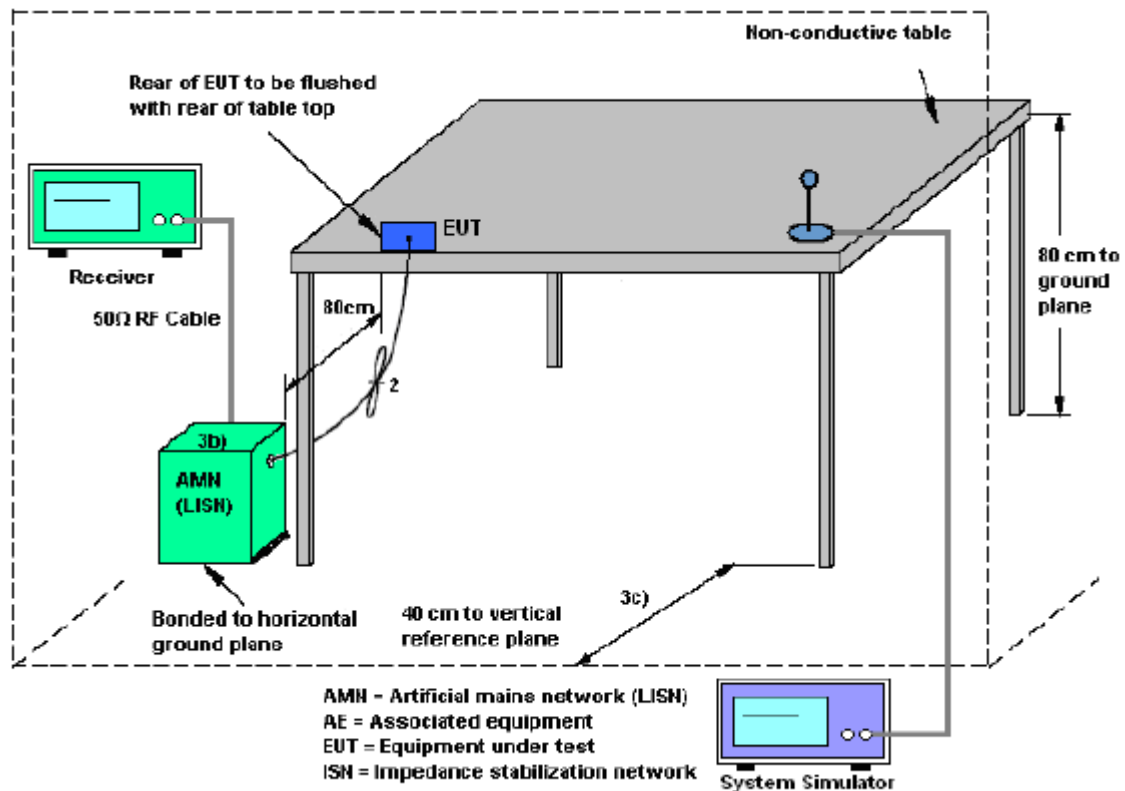
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency range (MHz)	Conducted Limit (dBμV)	
	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

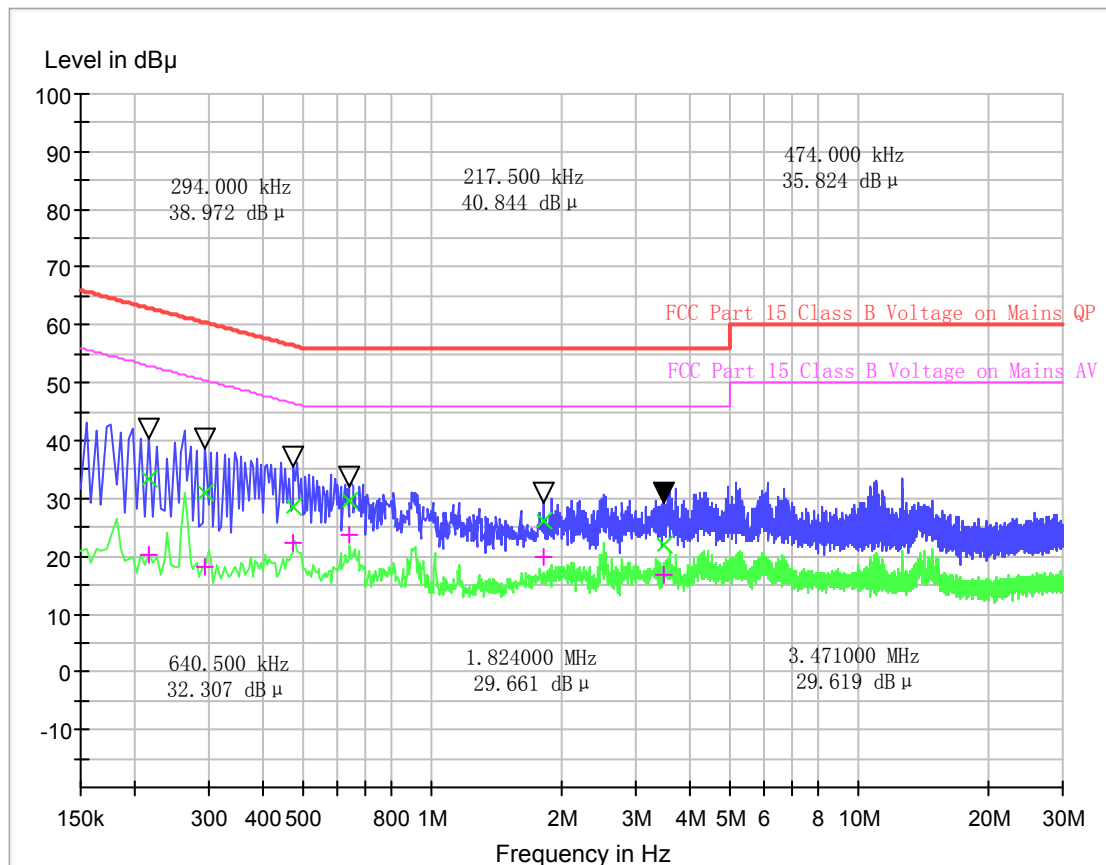


2.7.4. Test Procedures

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

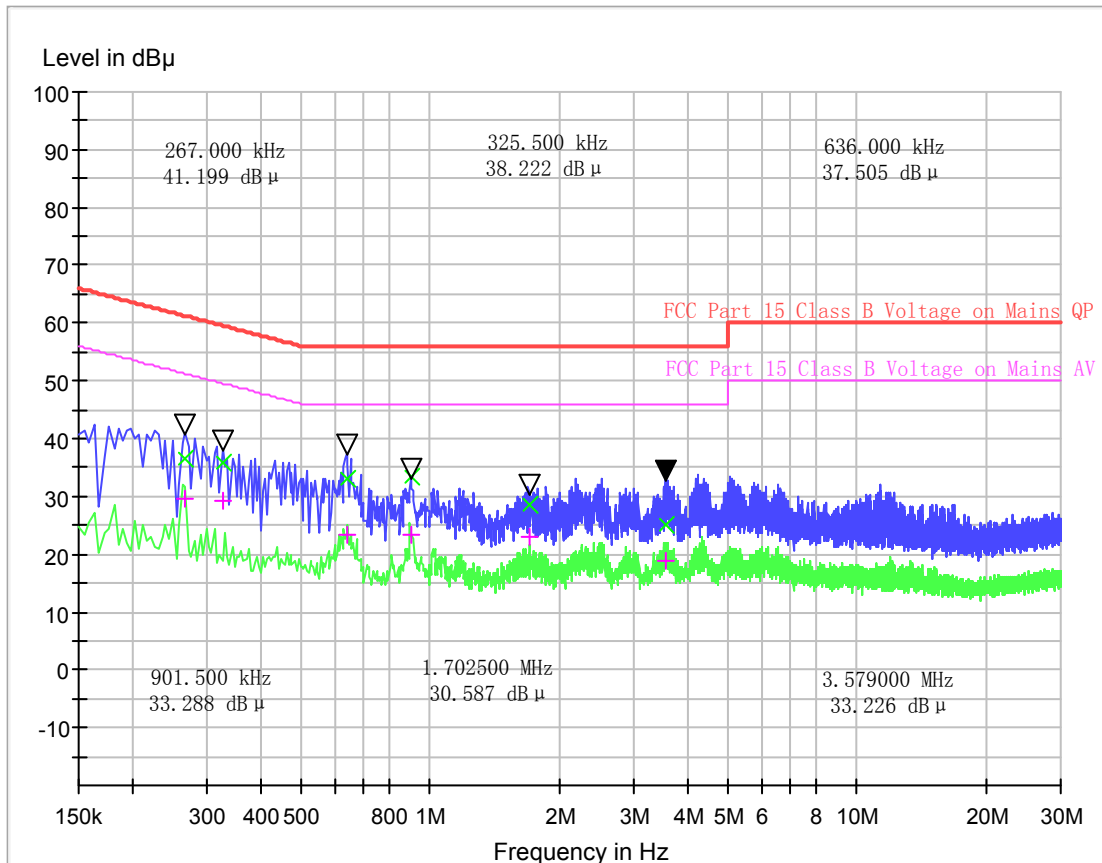
The EUT configuration of the emission tests is 5G WLAN Link + USB Cable (Charging from Adapter)



Conducted Disturbance at Mains Terminals

L Test Data

QP			AV		
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)
0.217500	62.9	33.55	0.217500	52.9	20.26
0.294000	60.4	31.07	0.294000	50.4	18.15
0.474000	56.4	28.63	0.474000	46.4	22.17
0.640500	56.0	29.54	0.640500	46.0	23.82
1.824000	56.0	26.08	1.824000	46.0	20.00
3.471000	56.0	21.81	3.471000	46.0	16.89



Conducted Disturbance at Mains Terminals

N Test Data

QP			AV		
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)
0.267000	61.2	36.64	0.267000	51.2	29.47
0.325500	59.6	35.86	0.325500	49.6	29.09
0.636000	56.0	33.06	0.636000	46.0	23.35
0.901500	56.0	33.33	0.901500	46.0	23.39
1.702500	56.0	28.55	1.702500	46.0	22.99
3.579000	56.0	25.18	3.579000	46.0	18.93

3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2018/11/11
2	EMI TEST RECEIVER	Rohde&Schwarz	ESI 26	100009	2018/11/11
3	EMI TEST Software	Audix	E3	N/A	N/A
4	TURNTABLE	ETS	2088	2149	N/A
5	ANTENNA MAST	ETS	2075	2346	N/A
6	EMI TEST Software	Rohde&Schwarz	ESK1	N/A	N/A
7	HORNANTENNA	ShwarzBeck	9120D	1011	2018/11/11
8	Amplifer	Sonoma	310N	E009-13	2018/11/11
9	JS amplifer	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2018/11/11
10	High pass filter	Compliance Direction systems	BSU-6	34202	2018/11/11
11	HORNANTENNA	ShwarzBeck	9120D	1012	2018/11/11
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2018/11/11
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2018/11/11
14	TURNTABLE	MATURO	TT2.0	----	N/A
15	ANTENNA MAST	MATURO	TAM-4.0-P	----	N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2018/11/11
17	ULTRA-BROADBAND ANTENNA	Rohde&Schwarz	HL562	100015	2018/07/12
18	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
20	Spectrum Analyzer	Keysight	N9030A	A160702554	2018/10/15

Note: the calibration interval of test equipment is one year.

Appendix A

Conducted output power

Test results

U-NII-1 AVGSA Output Power				
Mode	Test Frequency (MHz)	Max Conducted Output Power (dBm)	Limit (dBm)	Result
802.11n (20MHz)	5180	14.32	24	Pass
802.11n (20MHz)	5220	13.93	24	Pass
802.11n (20MHz)	5240	14.27	24	Pass
802.11n (40MHz)	5190	11.50	24	Pass
802.11n (40MHz)	5230	13.03	24	Pass
802.11a (20MHz)	5180	13.52	24	Pass
802.11a (20MHz)	5220	11.69	24	Pass
802.11a (20MHz)	5240	13.52	24	Pass
802.11ac (20MHz)	5180	11.42	24	Pass
802.11ac (20MHz)	5220	11.72	24	Pass
802.11ac (20MHz)	5240	14.39	24	Pass
802.11ac (40MHz)	5190	14.79	24	Pass
802.11ac (40MHz)	5230	12.98	24	Pass
802.11ac (80MHz)	5210	14.81	24	Pass

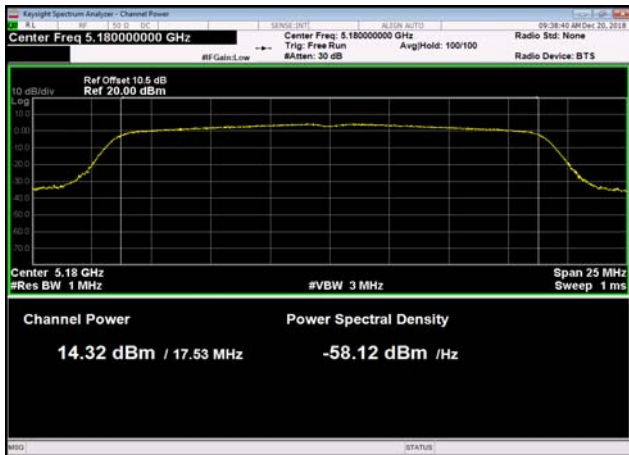


U-NII-3 AVGSA Output Power

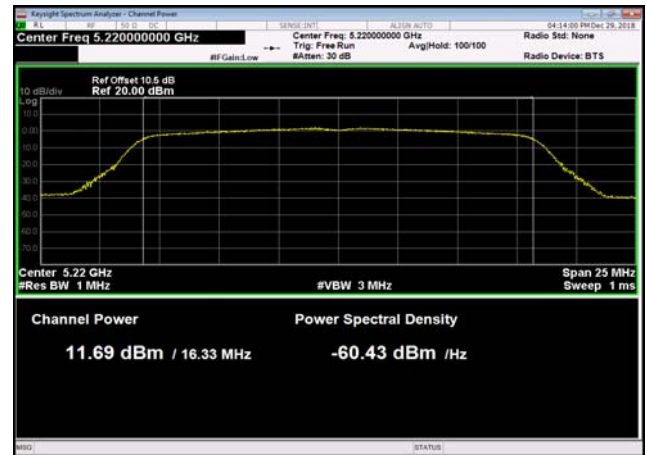
Mode	Test Frequency (MHz)	Max Conducted Output Power (dBm)	Limit (dBm)	Result
802.11a (20MHz)	5745	10.14	30	Pass
802.11a (20MHz)	5785	10.95	30	Pass
802.11a (20MHz)	5825	10.30	30	Pass
802.11n (20MHz)	5745	11.57	30	Pass
802.11n (20MHz)	5785	10.79	30	Pass
802.11n (20MHz)	5825	11.86	30	Pass
802.11n (40MHz)	5755	12.10	30	Pass
802.11n (40MHz)	5795	11.52	30	Pass
802.11ac (20MHz)	5745	11.20	30	Pass
802.11ac (20MHz)	5785	11.47	30	Pass
802.11ac (20MHz)	5825	11.44	30	Pass
802.11ac (40MHz)	5755	14.52	30	Pass
802.11ac (40MHz)	5795	13.86	30	Pass
802.11ac (80MHz)	5775	11.94	30	Pass

Test Plots

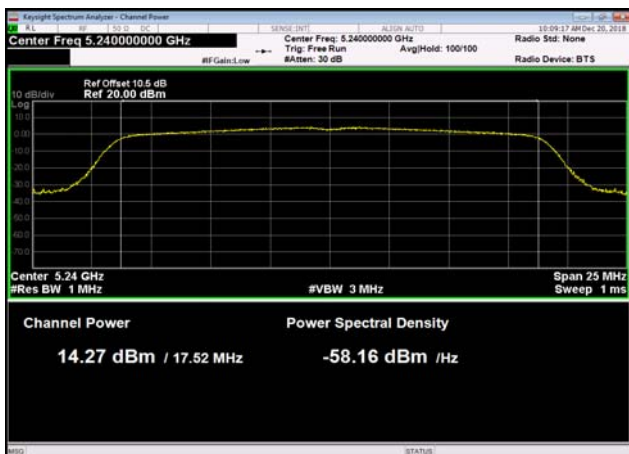
U-NII-1 Output Power-802.11n(20MHz)
,5180MHz



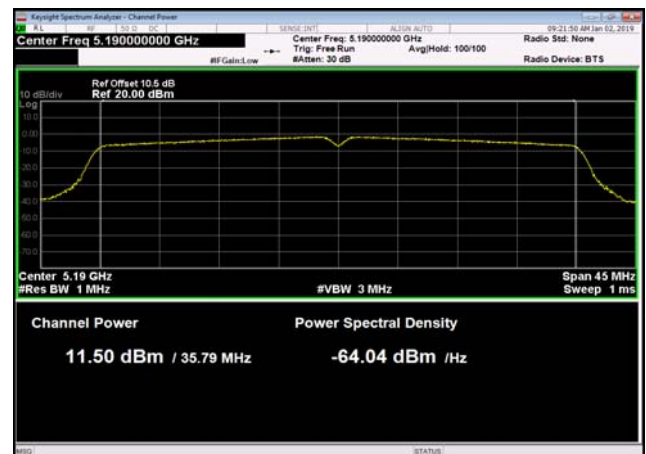
U-NII-1 Output Power-802.11n(20MHz)
,5220MHz



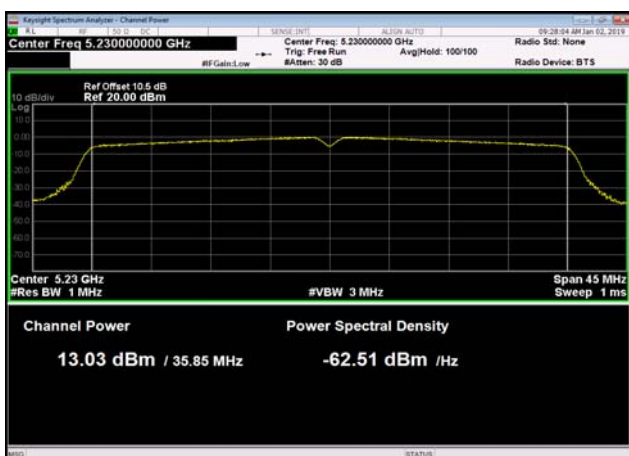
U-NII-1 Output Power-802.11n(20MHz)
,5240MHz



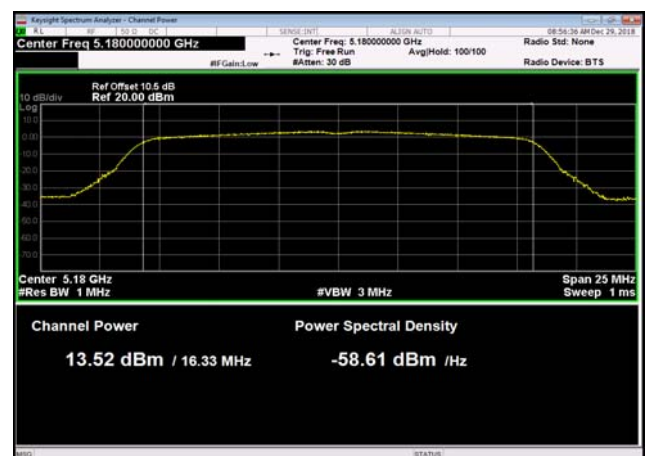
U-NII-1 Output Power-802.11n(40MHz)
,5190MHz



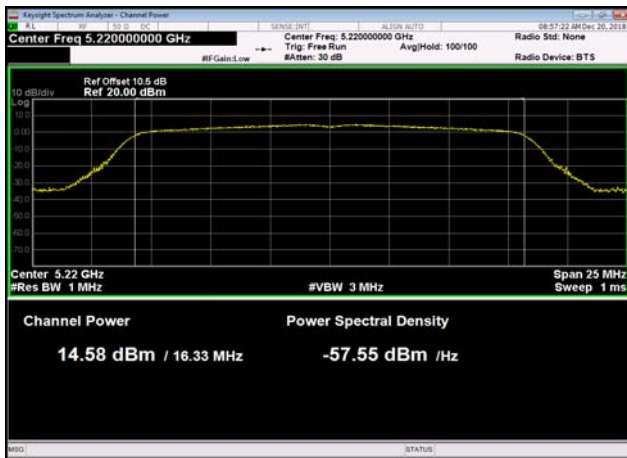
U-NII-1 Output Power-802.11n(40MHz)
,5230MHz



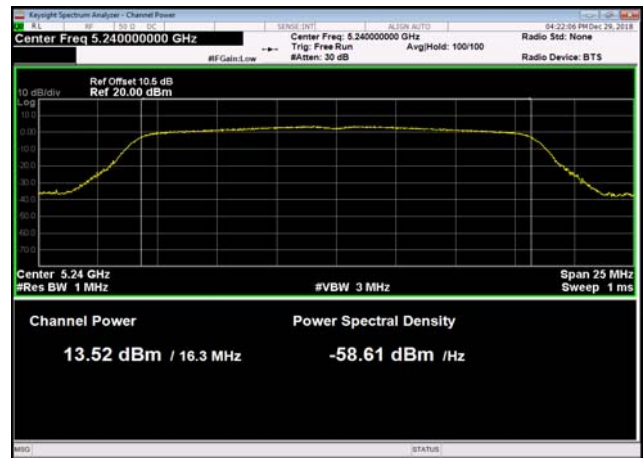
U-NII-1 Output Power-802.11a(20MHz)
,5180MHz



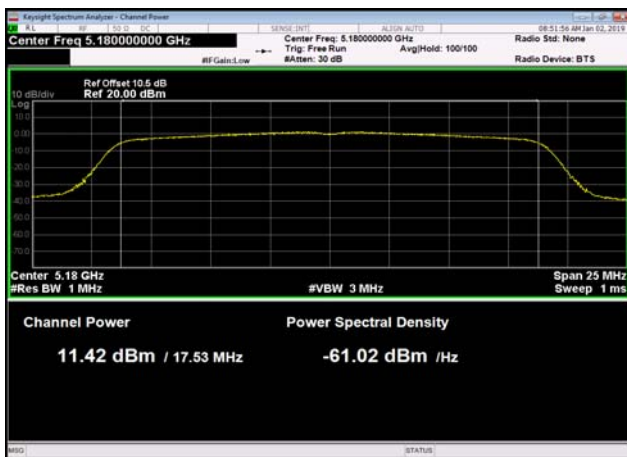
U-NII-1 Output Power-802.11a(20MHz)
,5220MHz



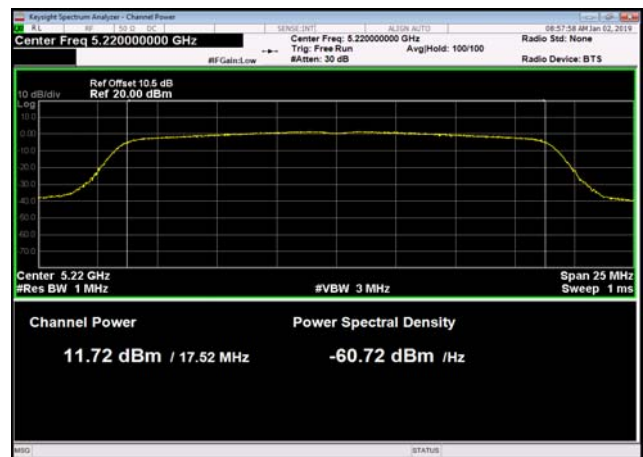
U-NII-1 Output Power-802.11a(20MHz)
,5240MHz



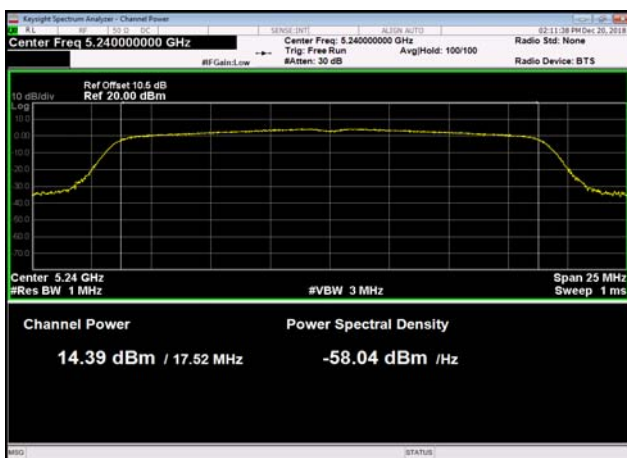
U-NII-1 Output Power-802.11ac(20MHz)
,5180MHz



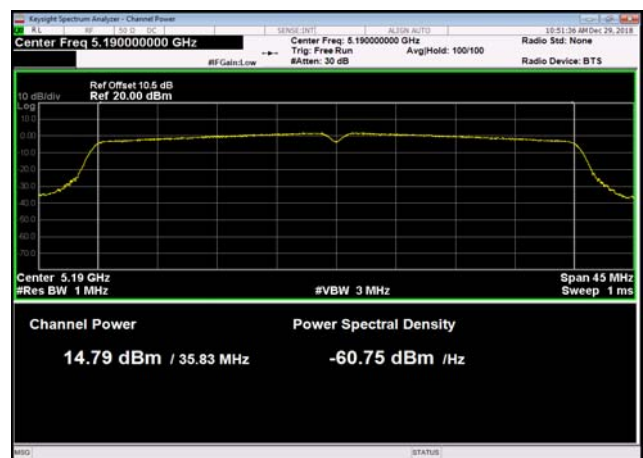
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,5220MHz



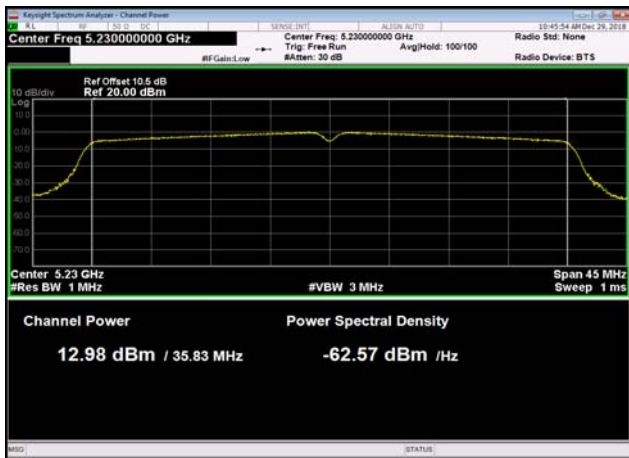
U-NII-1 Output Power-802.11ac(20MHz)
,5240MHz



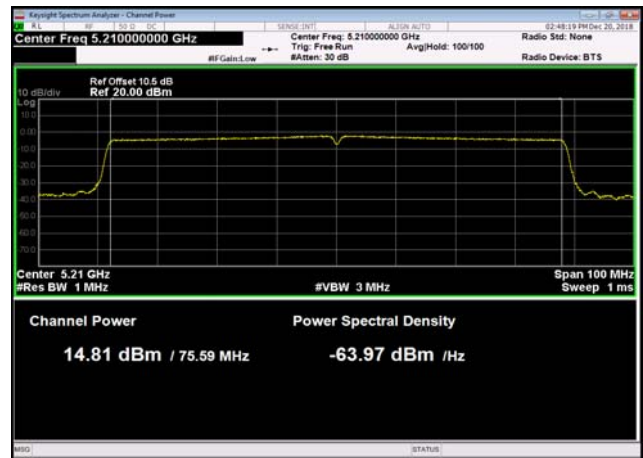
U-NII-1 Output Power-802.11ac(40MHz)
,5190MHz



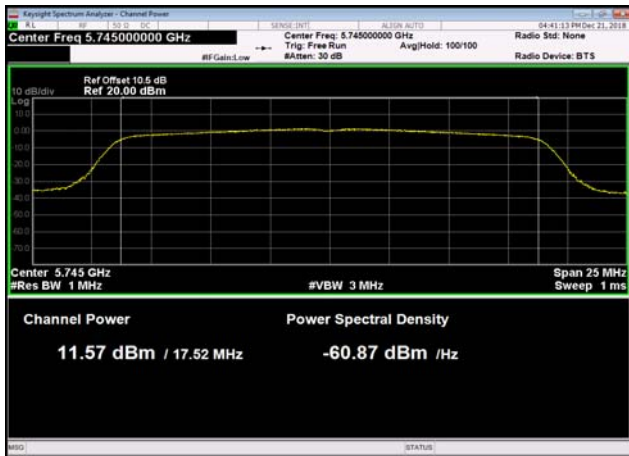
U-NII-1 Output Power-802.11ac(40MHz)
,5230MHz



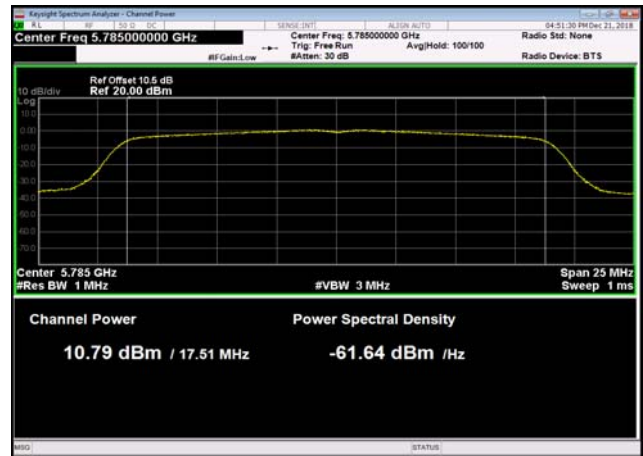
U-NII-1 Output Power-802.11ac(80MHz)
,5210MHz



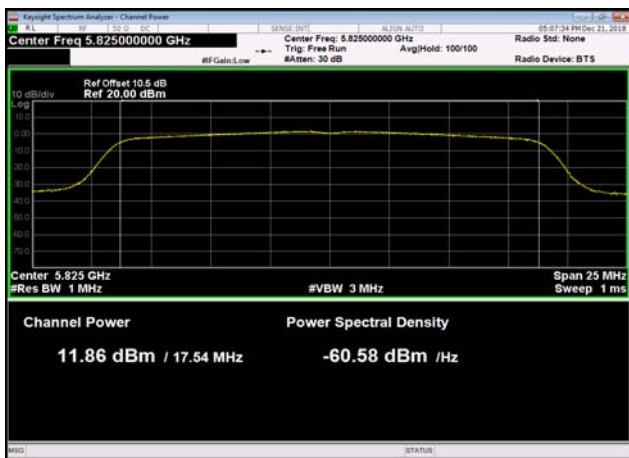
U-NII-3 Output Power-802.11n(20MHz)
,5745MHz



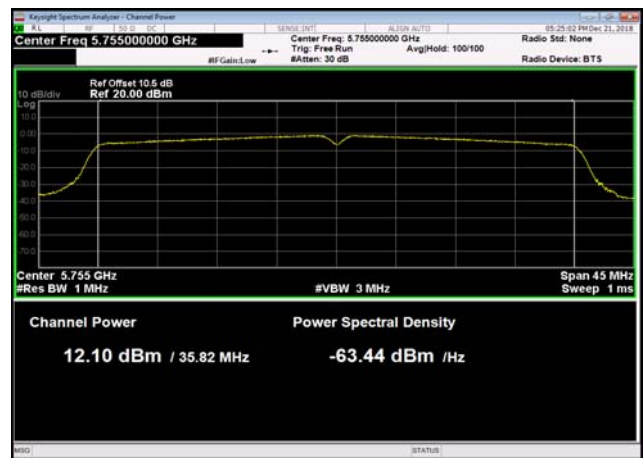
U-NII-3 Output Power-802.11n(20MHz)
,5785MHz



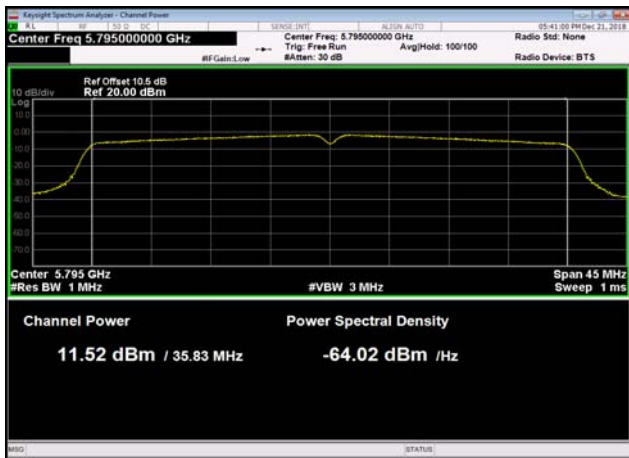
U-NII-3 Output Power-802.11n(20MHz)
,5825MHz



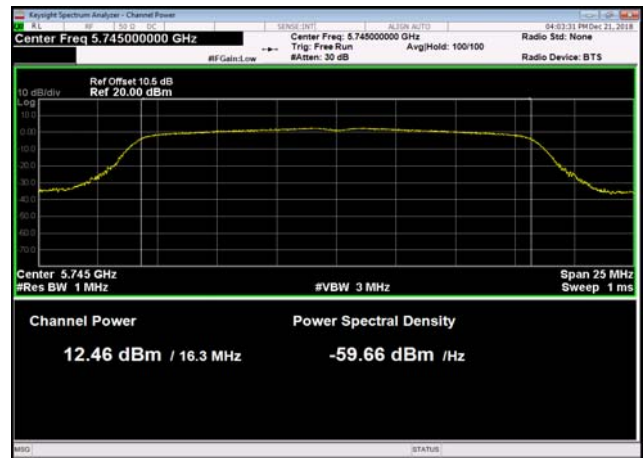
U-NII-3 Output Power-802.11n(40MHz)
,5755MHz



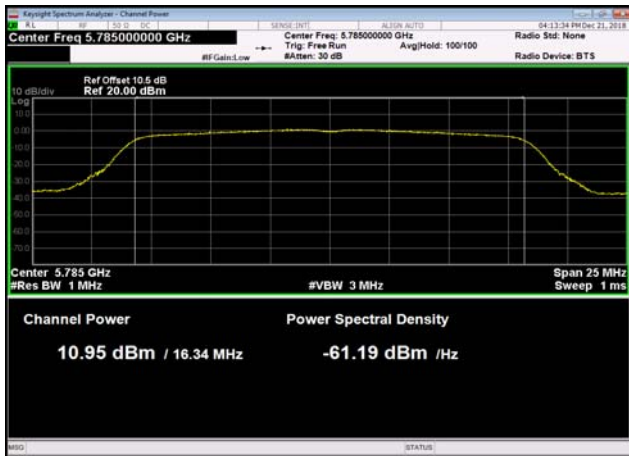
U-NII-3 Output Power-802.11n(40MHz)
,5795MHz



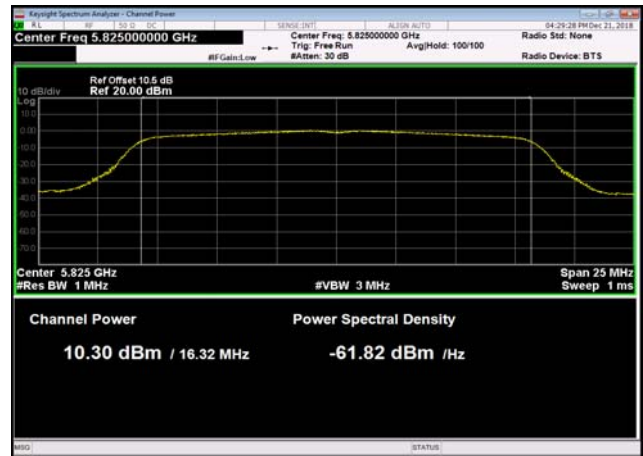
U-NII-3 Output Power-802.11a(20MHz)
,5745MHz



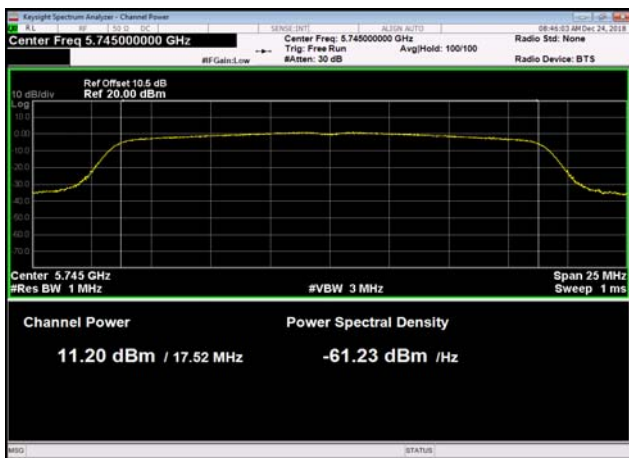
U-NII-3 Output Power-802.11a(20MHz)
,5785MHz



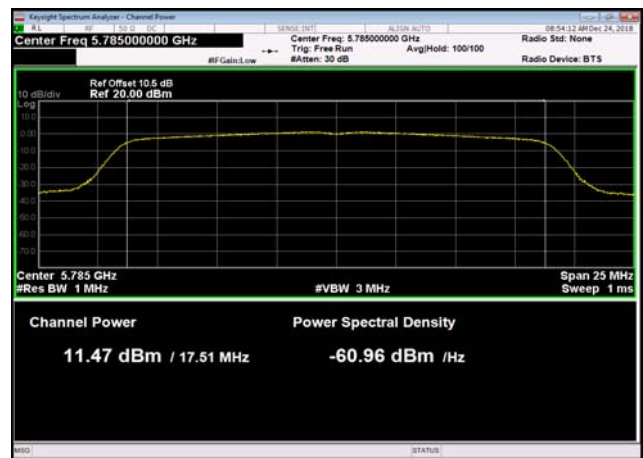
U-NII-3 Output Power-802.11a(20MHz)
,5825MHz



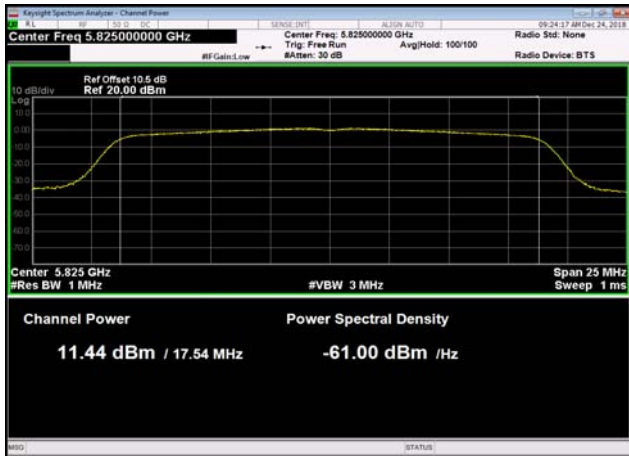
U-NII-3 Output Power-802.11ac(20MHz)
,5745MHz



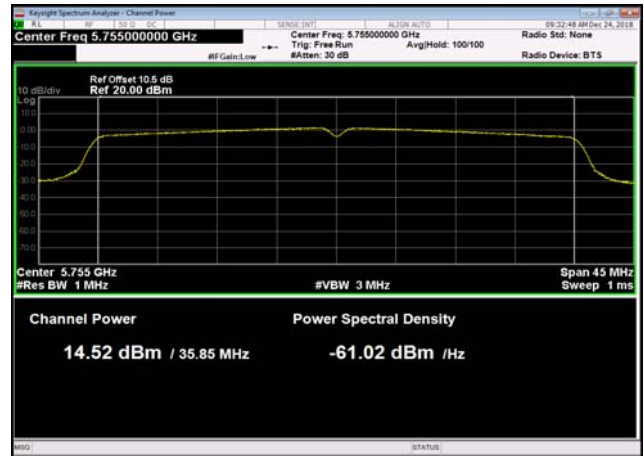
U-NII-3 Output Power-802.11ac(20MHz)
,5785MHz



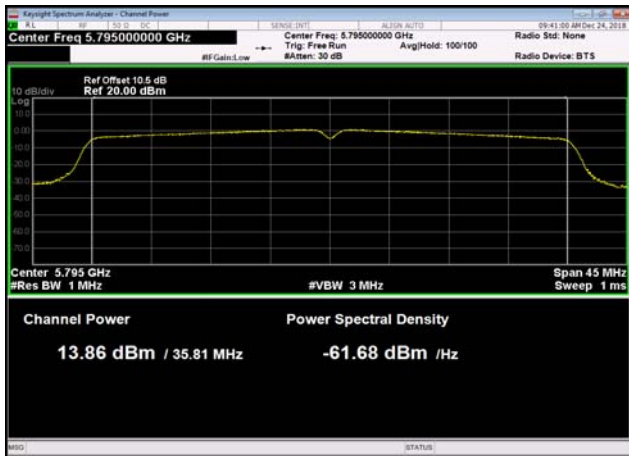
U-NII-3 Output Power-802.11ac(20MHz)
,5825MHz



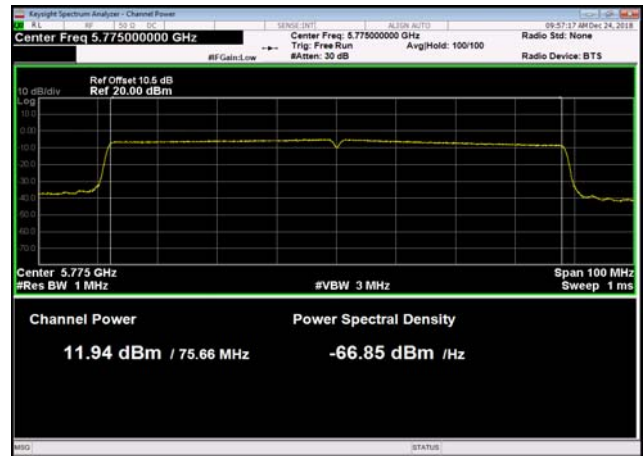
U-NII-3 Output Power-802.11ac(40MHz)
,5755MHz



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	2.596	11	Pass
802.11n (20MHz)	5220	2.209	11	Pass
802.11n (20MHz)	5240	2.453	11	Pass
802.11n (40MHz)	5190	-2.226	11	Pass
802.11n (40MHz)	5230	-0.679	11	Pass
802.11a (20MHz)	5180	2.220	11	Pass
802.11a (20MHz)	5220	0.252	11	Pass
802.11a (20MHz)	5240	2.229	11	Pass
802.11ac (20MHz)	5180	0.799	11	Pass
802.11ac (20MHz)	5220	0.969	11	Pass
802.11ac (20MHz)	5240	2.812	11	Pass
802.11ac (40MHz)	5190	0.140	11	Pass
802.11ac (40MHz)	5230	-1.207	11	Pass
802.11ac (80MHz)	5210	-3.713	11	Pass

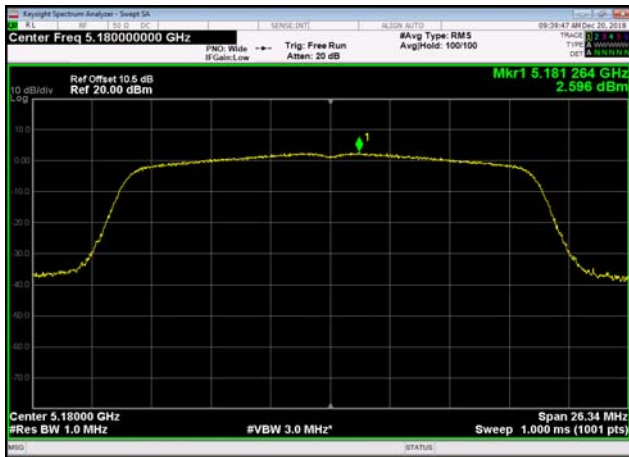


U-NII-3 AVGSA Power Spectral Density

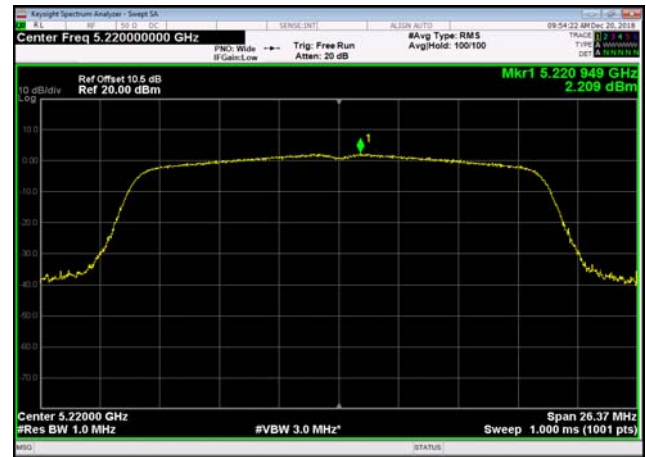
Mode	Test Frequency (MHz)	PSD (dBm/510KHz)	Limit (dBm/500KHz)	Result
802.11a (20MHz)	5745	-0.059	30	Pass
802.11a (20MHz)	5785	0.231	30	Pass
802.11a (20MHz)	5825	0.710	30	Pass
802.11n (20MHz)	5745	-3.146	30	Pass
802.11n (20MHz)	5785	-3.960	30	Pass
802.11n (20MHz)	5825	-2.525	30	Pass
802.11n (40MHz)	5755	-5.250	30	Pass
802.11n (40MHz)	5795	-6.112	30	Pass
802.11ac (20MHz)	5745	-1.857	30	Pass
802.11ac (20MHz)	5785	-2.399	30	Pass
802.11ac (20MHz)	5825	-2.190	30	Pass
802.11ac (40MHz)	5755	-1.900	30	Pass
802.11ac (40MHz)	5795	-2.926	30	Pass
802.11ac (80MHz)	5775	-8.329	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



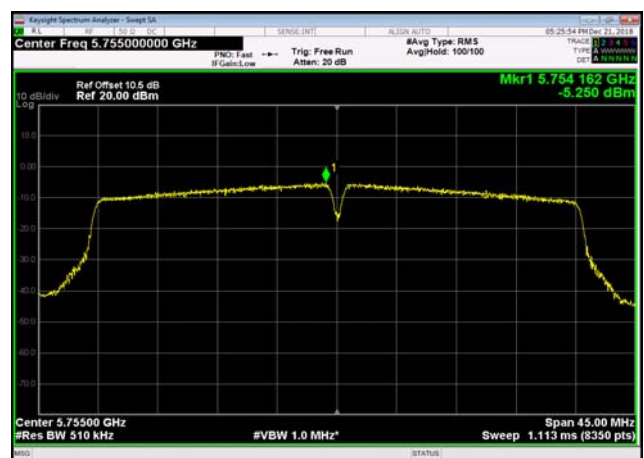
U-NII-3 Power spectral density-802.11
n(20MHz),5785MHz



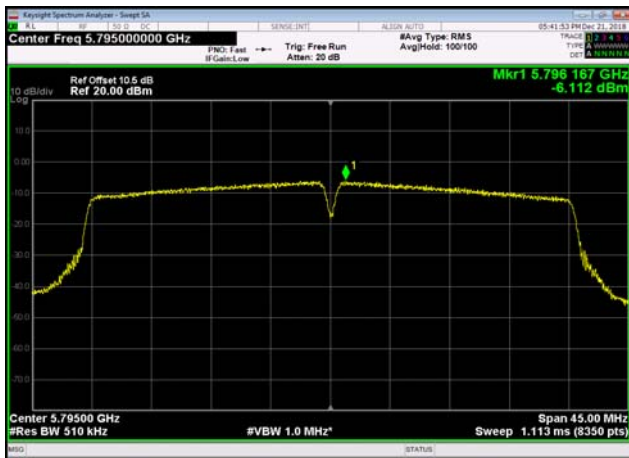
U-NII-3 Power spectral density-802.11
n(20MHz),5825MHz



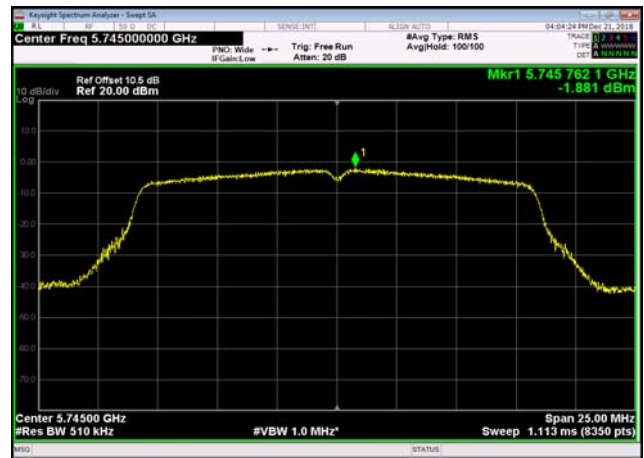
U-NII-3 Power spectral density-802.11
n(40MHz),5755MHz



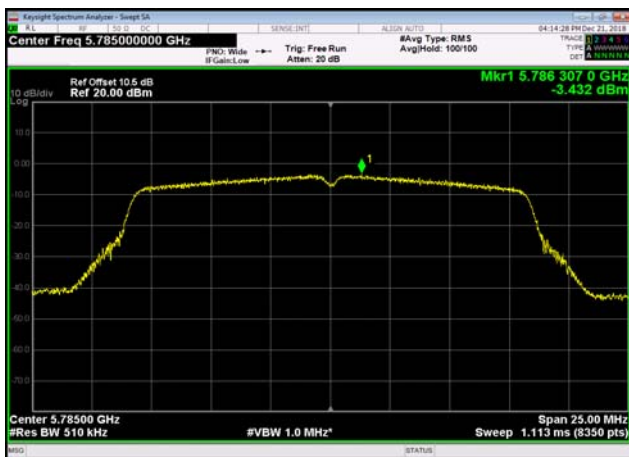
U-NII-3 Power spectral density-802.11
n(40MHz),5795MHz



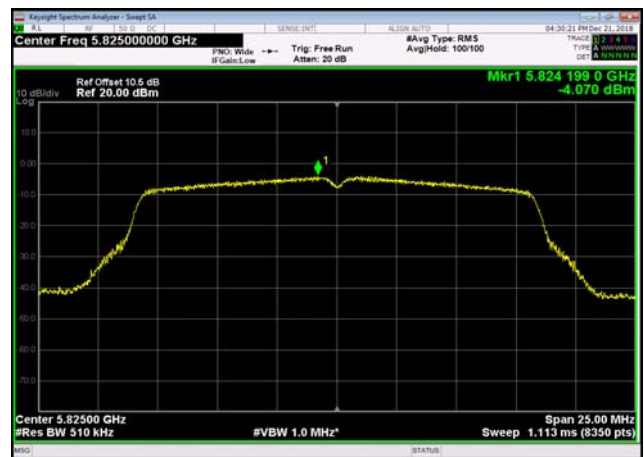
U-NII-3 Power spectral density-802.11
a(20MHz),5745MHz



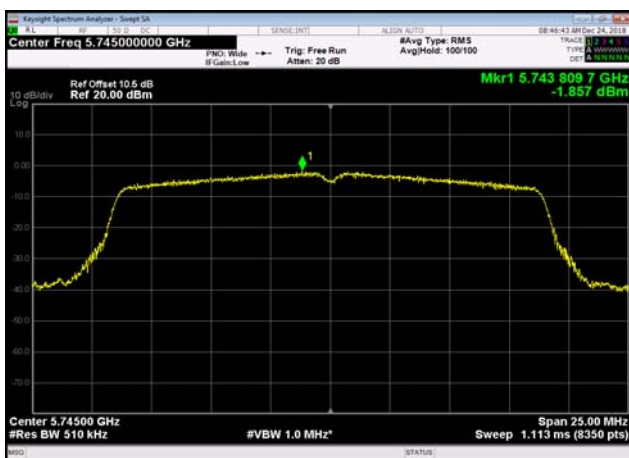
U-NII-3 Power spectral density-802.11
a(20MHz),5785MHz



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



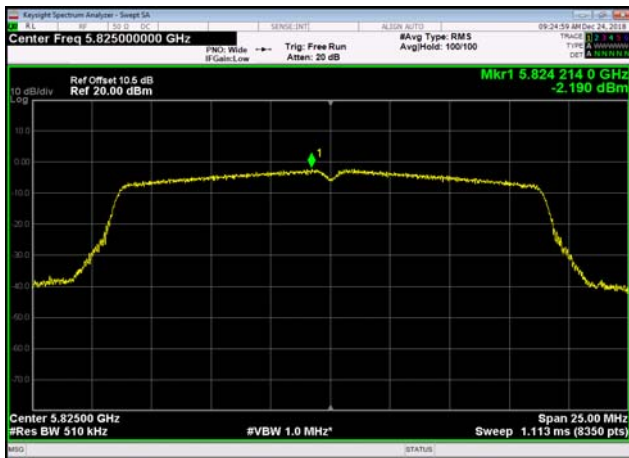
U-NII-3 Power spectral density-802.11
ac(20MHz),5745MHz



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



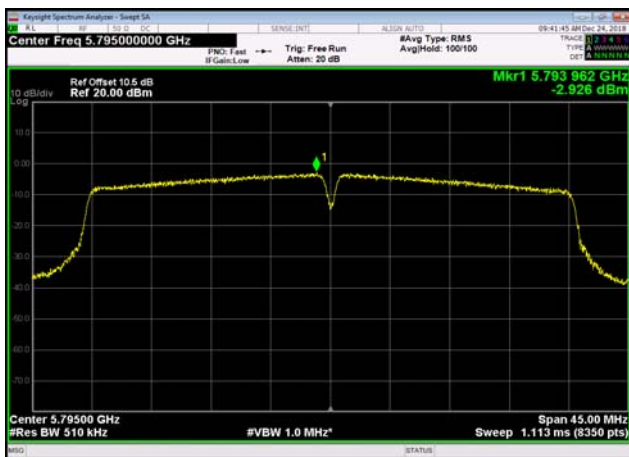
U-NII-3 Power spectral density-802.11
ac(20MHz),5825MHz



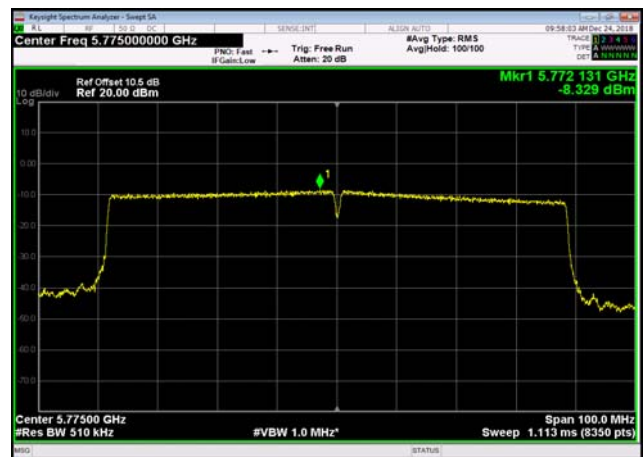
U-NII-3 Power spectral density-802.11
ac(40MHz),5755MHz



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



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



**6dB Down Bandwidth****Test Result and Data**

	U-NII-1 Occupied 6dB Bandwidth		
Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Result
802.11n (20MHz)	5180	17.56	Pass
802.11n (20MHz)	5220	17.58	Pass
802.11n (20MHz)	5240	17.53	Pass
802.11n (40MHz)	5190	35.07	Pass
802.11n (40MHz)	5230	35.18	Pass
802.11a (20MHz)	5180	16.32	Pass
802.11a (20MHz)	5220	16.28	Pass
802.11a (20MHz)	5240	14.44	Pass
802.11ac (20MHz)	5180	17.55	Pass
802.11ac (20MHz)	5220	16.91	Pass
802.11ac (20MHz)	5240	17.55	Pass
802.11ac (40MHz)	5190	35.91	Pass
802.11ac (40MHz)	5230	35.07	Pass
802.11ac (80MHz)	5210	76.54	Pass



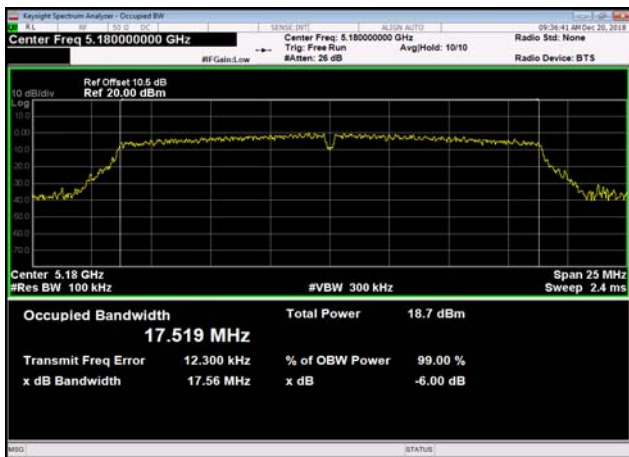
U-NII-3 Occupied 6dB Bandwidth

Mode	Test Frequency (MHz)	Occupied Bandwidth (MHz)	Limit (KHz)	Result
802.11a (20MHz)	5745	15.10	500	Pass
802.11a (20MHz)	5785	16.07	500	Pass
802.11a (20MHz)	5825	16.34	500	Pass
802.11n (20MHz)	5745	16.92	500	Pass
802.11n (20MHz)	5785	17.57	500	Pass
802.11n (20MHz)	5825	17.56	500	Pass
802.11n (40MHz)	5755	35.71	500	Pass
802.11n (40MHz)	5795	35.65	500	Pass
802.11ac (20MHz)	5745	17.55	500	Pass
802.11ac (20MHz)	5785	17.56	500	Pass
802.11ac (20MHz)	5825	17.58	500	Pass
802.11ac (40MHz)	5755	35.83	500	Pass
802.11ac (40MHz)	5795	35.65	500	Pass
802.11ac (80MHz)	5775	76.51	500	Pass



Test Plots

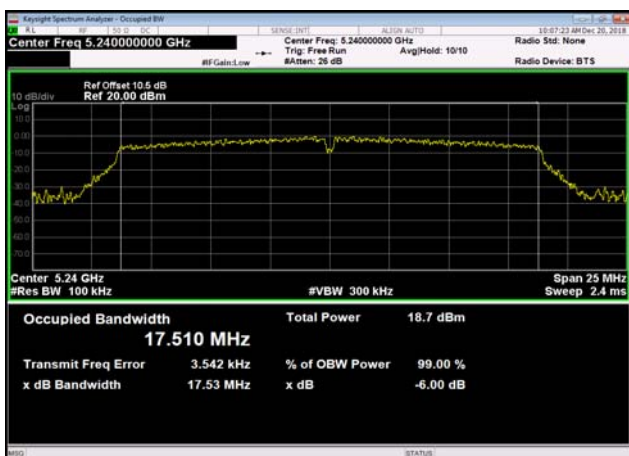
U-NII-1 6dB Bandwidth-802.11n(20MHz)
,5180MHz



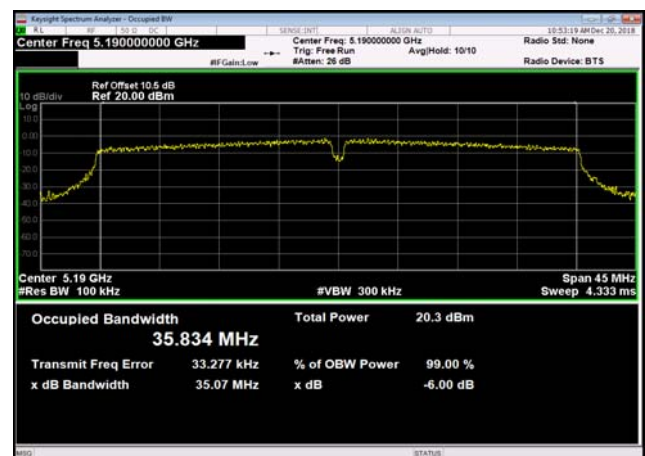
U-NII-1 6dB Bandwidth-802.11n(20MHz)
,5220MHz



U-NII-1 6dB Bandwidth-802.11n(20MHz)
,5240MHz



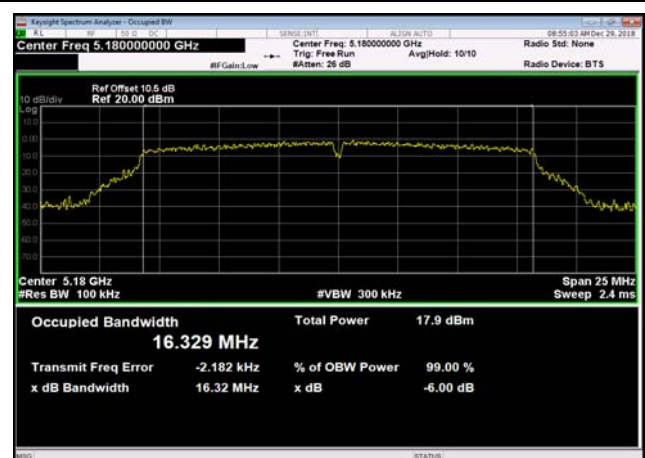
U-NII-1 6dB Bandwidth-802.11n(40MHz)
,5190MHz



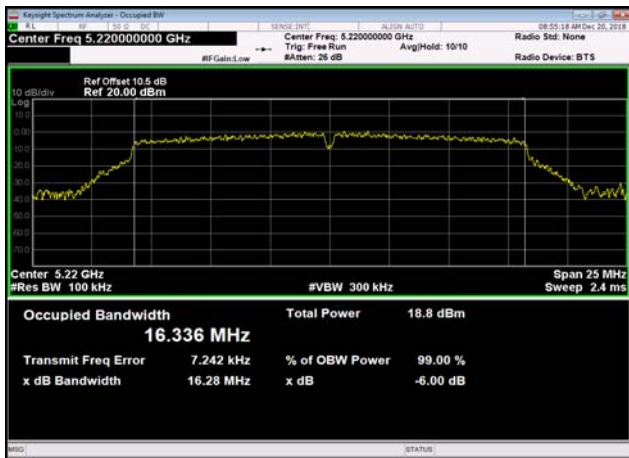
U-NII-1 6dB Bandwidth-802.11n(40MHz)
,5230MHz



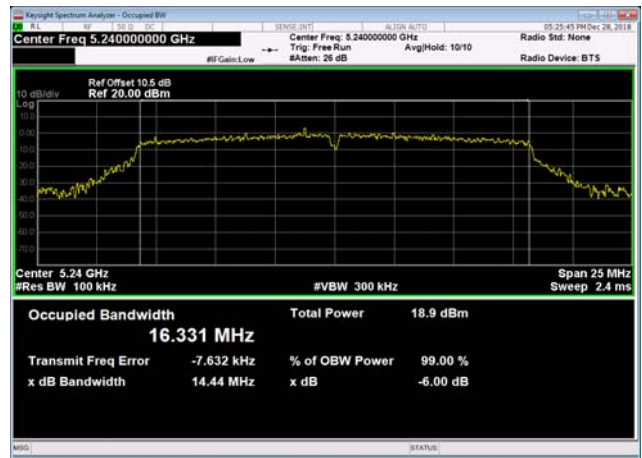
U-NII-1 6dB Bandwidth-802.11a(20MHz)
,5180MHz



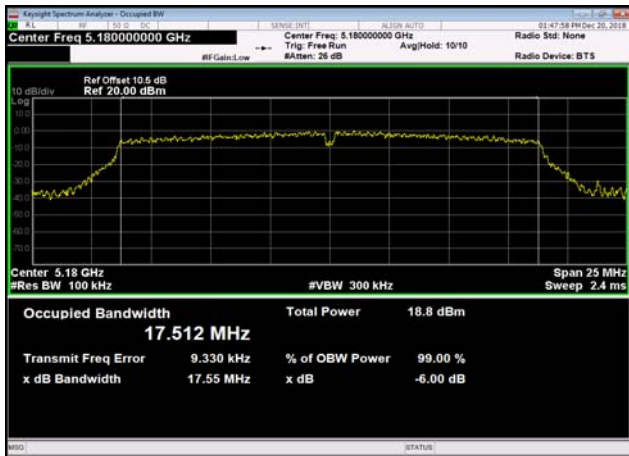
U-NII-1 6dB Bandwidth-802.11a(20MHz)
,5220MHz



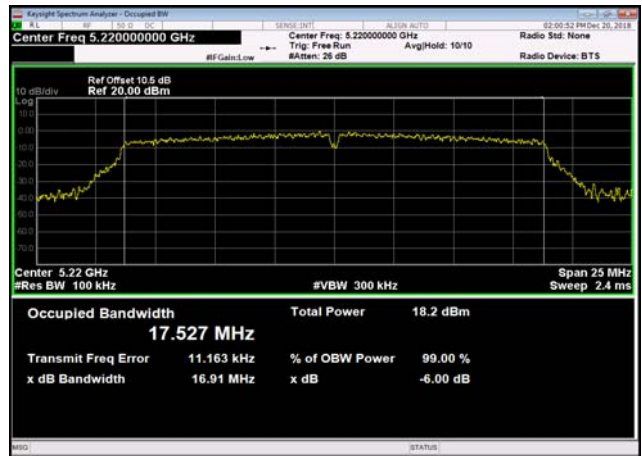
U-NII-1 6dB Bandwidth-802.11a(20MHz)
,5240MHz



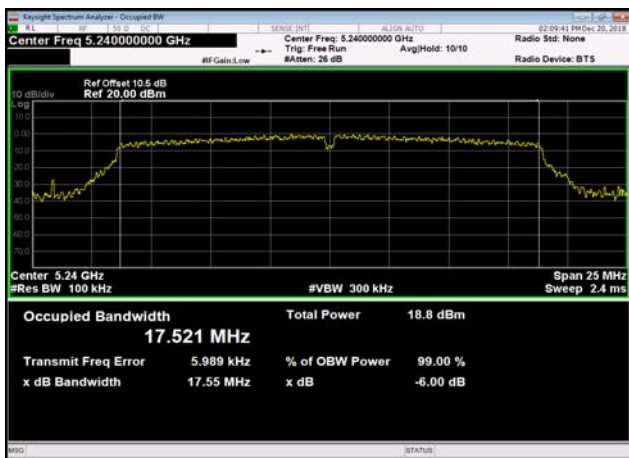
U-NII-1 6dB Bandwidth-802.11ac(20MHz)
,5180MHz



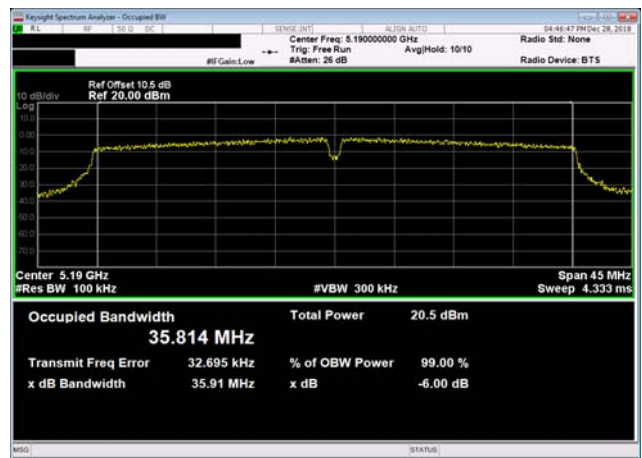
U-NII-1 6dB Bandwidth-802.11ac(20MHz)
,5220MHz



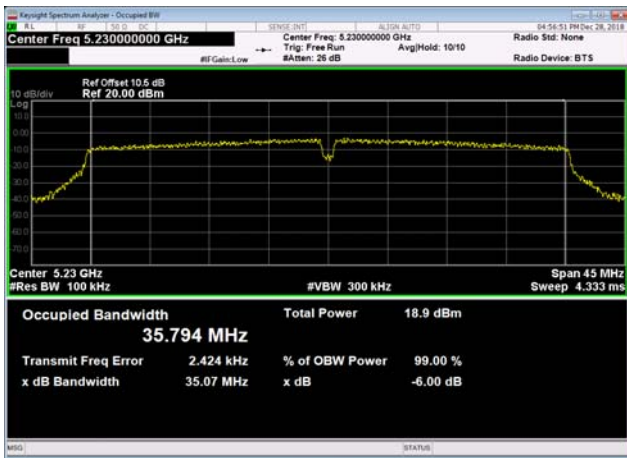
U-NII-1 6dB Bandwidth-802.11ac(20MHz)
,5240MHz



U-NII-1 6dB Bandwidth-802.11ac(40MHz)
,5190MHz



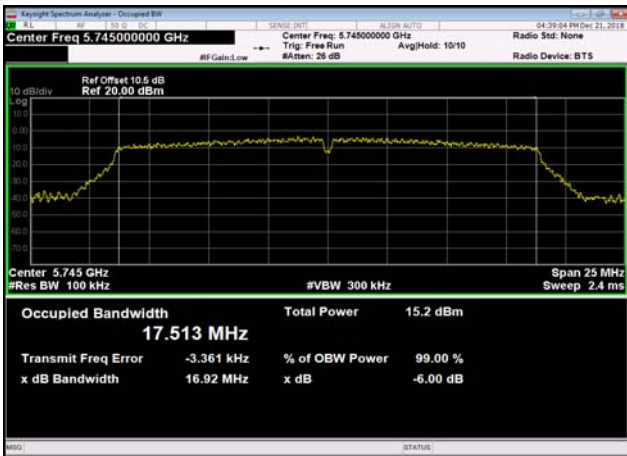
U-NII-1 6dB Bandwidth-802.11ac(40MHz)
,5230MHz



U-NII-1 6dB Bandwidth-802.11ac(80MHz)
,5210MHz



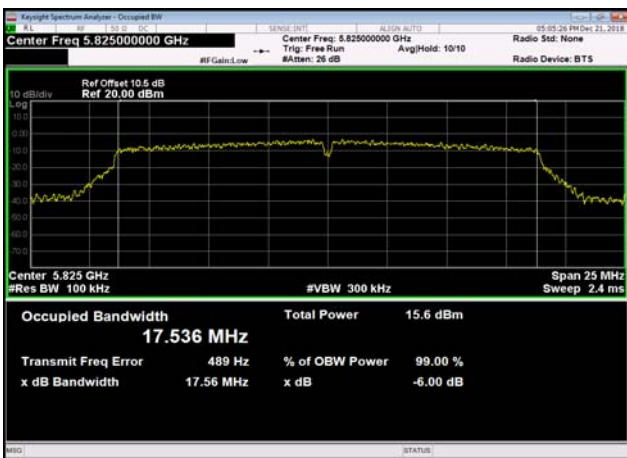
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5745MHz



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



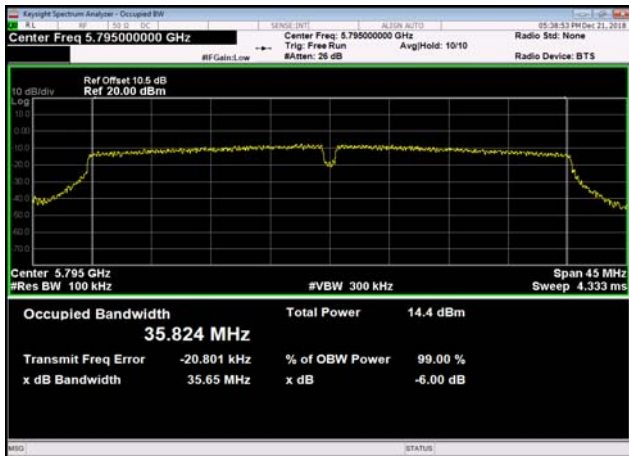
U-NII-3 6dB Bandwidth-802.11n(20MHz)
,5825MHz



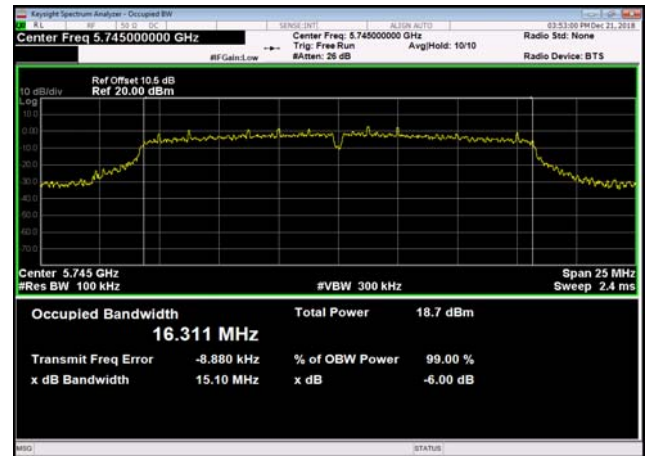
U-NII-3 6dB Bandwidth-802.11n(40MHz)
,5755MHz



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



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



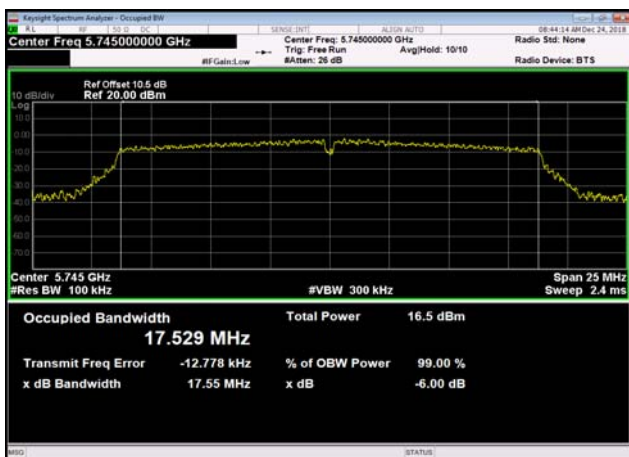
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5785MHz



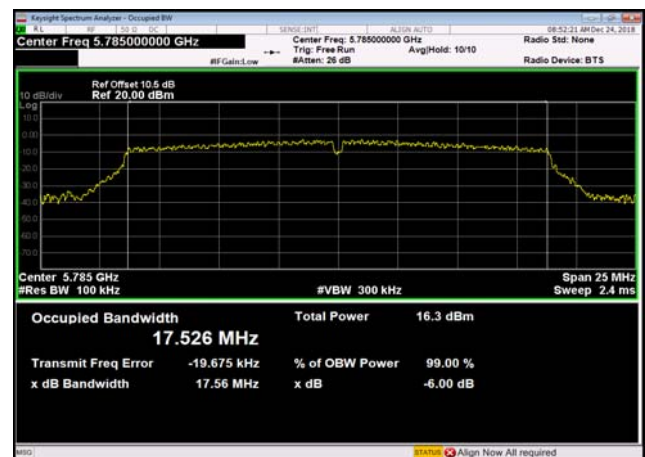
U-NII-3 6dB Bandwidth-802.11a(20MHz)
,5825MHz



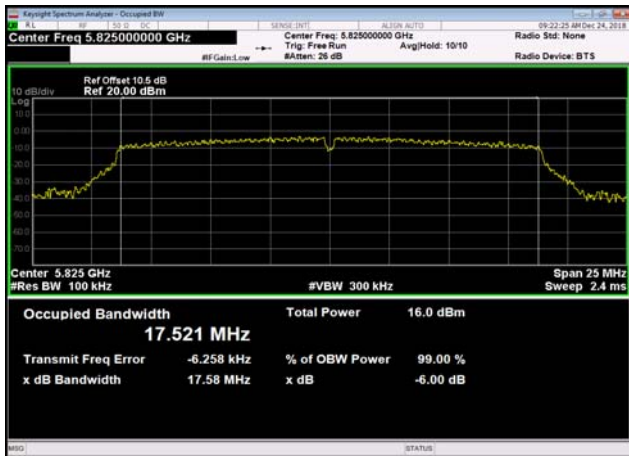
U-NII-3 6dB Bandwidth-802.11ac(20MHz)
,5745MHz



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



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



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



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



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



**Frequency Stability**

U-NII-1

Mode	Test Frequency (MHz)	LF (MHz)	HF (MHz)	CF (MHz)	Freq Stability (ppm)	Test Result
802.11n (20MHz)	5180	5171.125	5188.933	5180.029	5.630	Pass
802.11n (20MHz)	5220	5211.117	5228.925	5220.021	3.990	Pass
802.11n (20MHz)	5240	5231.125	5248.917	5240.021	3.980	Pass
802.11n (40MHz)	5190	5171.775	5208.300	5190.038	7.230	Pass
802.11n (40MHz)	5230	5211.775	5248.315	5230.045	8.600	Pass
802.11a (20MHz)	5180	5171.720	5188.275	5179.998	-0.480	Pass
802.11a (20MHz)	5220	5211.708	5228.283	5219.996	-0.800	Pass
802.11a (20MHz)	5240	5231.848	5248.176	5240.012	2.230	Pass
802.11ac (20MHz)	5180	5171.108	5188.917	5180.013	2.410	Pass
802.11ac (20MHz)	5220	5211.133	5228.908	5220.021	3.990	Pass
802.11ac (20MHz)	5240	5231.108	5248.933	5240.021	3.980	Pass
802.11ac (40MHz)	5190	5171.744	5208.267	5190.005	1.010	Pass
802.11ac (40MHz)	5230	5211.769	5248.266	5230.017	3.300	Pass
802.11ac (80MHz)	5210	5171.740	5248.360	5210.050	9.600	Pass



U-NII-3

Mode	Test Frequency (MHz)	LF (MHz)	HF (MHz)	CF (MHz)	Freq Stability (ppm)	Test Result
802.11n (20MHz)	5745	5736.117	5753.925	5745.021	3.630	Pass
802.11n (20MHz)	5785	5776.133	5793.933	5785.033	5.760	Pass
802.11n (20MHz)	5825	5816.150	5833.917	5825.033	5.720	Pass
802.11n (40MHz)	5755	5736.775	5773.285	5755.030	5.210	Pass
802.11n (40MHz)	5795	5776.745	5813.330	5795.038	6.470	Pass
802.11ac (20MHz)	5745	5736.075	5753.892	5744.983	-2.900	Pass
802.11ac (20MHz)	5785	5776.125	5793.925	5785.025	4.320	Pass
802.11ac (20MHz)	5825	5816.108	5833.933	5825.021	3.580	Pass
802.11ac (40MHz)	5755	5736.760	5773.315	5755.038	6.520	Pass
802.11ac (40MHz)	5795	5776.790	5813.240	5795.015	2.590	Pass
802.11ac (80MHz)	5775	5736.800	5813.400	5775.100	17.320	Pass
802.11a (20MHz)	5745	5736.858	5753.192	5745.025	4.350	Pass
802.11a (20MHz)	5785	5776.717	5793.308	5785.013	2.160	Pass
802.11a (20MHz)	5825	5816.725	5833.300	5825.013	2.150	Pass

Note: The worst data reported only.

**** END OF REPORT ****