



# RF TEST REPORT

**Report No.:** SET2019-12419

**Product Name:** LTE CAT6 CPE Outdoor

**FCC ID:** SRQ-MF256

**Model No. :** MF256

**Applicant:** ZTE Corporation.

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

**Dates of Testing:** 09/01/2019 — 09/19/2019

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

**Lab Location:** Building 28/29, East of Shigu, Xili Industrial Zone, Xili Road,  
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## Test Report

**Product Name** ..... : LTE CAT6 CPE Outdoor

**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** ..... : Robin Luo 2019.10.09  
Robin Luo, Test Engineer

**Reviewed by** ..... : Chris You 2019.10.09  
Chris You, Senior Engineer

**Approved by** ..... : Shuangwen Zhang 2019.10.09  
Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2019.10.09	First edition



# 1. General Information

## 1.1. EUT Description

EUT Type	LTE CAT6 CPE Outdoor
EUT supports Radios application	WLAN5.0GHz 802.11a/n (HT20/40)/ac(VHT20/40/80)
Product Type	Outdoor
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(MIMO)
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	Antenna 1/2: 3.0dBi
Output Power (Max.)	Band UNII-1: 16.16dBm Band UNII-3: 17.16dBm

Frequency	Modulation Mode	TX / RX Function
5.0GHz	802.11a	1TX / 1RX
	802.11n (HT20)	1TX / 1RX or 2TX / 2RX
	802.11n (HT40)	1TX / 1RX or 2TX / 2RX
	802.11ac (VHT20)	1TX / 1RX or 2TX / 2RX
	802.11ac (VHT40)	1TX / 1RX or 2TX / 2RX
	802.11ac (VHT80)	1TX / 1RX or 2TX / 2RX

## 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 789033D02v01	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, 802.11n-HT20 and 802.11ac-VHT20

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

1 channel are provided for 802.11ac-VHT80

Channel	Frequency	Channel	Frequency
155	5775 MHz	/	/

## 1.4. Test environment and mode

Operating Environment	
Temperature	24°C
Humidity	57 % RH
Atmospheric Pressure	1010 mbar
Test mode:	
Continuously transmitting mode	Keeps the EUT in 100% duty cycle transmitting with modulation in SISO and MIMO, 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 (Antenna 0)			
Frequency (MHz)	5180	5220	5240
A mode	22	22	22
Frequency (MHz)	5180	5220	5240
N20 mode	22	22	22
Frequency (MHz)	5190	5230	\
N40 mode	19	19	\
Frequency (MHz)	5180	5220	5240
AC20 mode	19	19	19
Frequency (MHz)	5190	5230	\
AC40 mode	19	19	\
Frequency (MHz)	5210	\	\
AC80 mode	18	\	\

Power level setup in software for 5G wifi			
UNII-1 (Antenna 1)			
Frequency (MHz)	5180	5220	5240
A mode	24	24	24
Frequency (MHz)	5180	5220	5240
N20 mode	22	22	22
Frequency (MHz)	5190	5230	\
N40 mode	19	19	\
Frequency (MHz)	5180	5220	5240
AC20 mode	20	20	20
Frequency (MHz)	5190	5230	\
AC40 mode	19	19	\
Frequency (MHz)	5210	\	\
AC80 mode	19	\	\

Power level setup in software for 5G wifi			
UNII-3 (Antenna 0)			
Frequency (MHz)	5745	5785	5825
A mode	22	22	22
Frequency (MHz)	5745	5785	5825
N20 mode	19	19	19
Frequency (MHz)	5755	5795	\
N40 mode	19	19	\
Frequency (MHz)	5745	5785	5825
AC20 mode	19	19	19
Frequency (MHz)	5755	5795	\
AC40 mode	19	19	\
Frequency (MHz)	5775	\	\
AC80 mode	19	\	\

Power level setup in software for 5G wifi			
UNII-3 (Antenna 1)			
Frequency (MHz)	5745	5785	5825
A mode	23	23	23
Frequency (MHz)	5745	5785	5825
N20 mode	19	19	19
Frequency (MHz)	5755	5795	\
N40 mode	19	19	\
Frequency (MHz)	5745	5785	5825
AC20 mode	19	19	19
Frequency (MHz)	5755	5795	\
AC40 mode	19	19	\
Frequency (MHz)	5775	\	\
AC80 mode	19	\	\



## 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**

### **CAB identifier:CN0064**

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 Dec. 31, 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 System	Cyclic Delay Diversity(CDD)
	2 antennas are correlated with each other
Antenna Type	PCB

#### 2.1.3. Antenna Gain

Antenna	Gain(dBi)
0	3
1	3
0+1	6.01

Note: 1. for 802.11n/ac mode, antenna 0, 1 can transmit/receive simultaneously (MIMO mode), for 802.11a, both antennas 0, 1 can transmit/receive at single mode (SISO mode)

2. Directional gain =  $G_{ANT} + 10\log(N_{ANT})$  dBi

#### 2.1.4. 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)

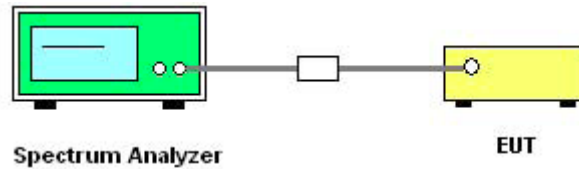
The maximum conducted output power should not exceed:

Band	EUT Category	Limit
U-NII-1	<input checked="" type="checkbox"/> 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)
	<input type="checkbox"/> Fixed point-to-point Access device	1 Watt (30 dBm)
	<input type="checkbox"/> Indoor Access Point	1 Watt (30 dBm)
	<input type="checkbox"/> Mobile and portable client device	250mW (24 dBm)
U-NII-2A	<input type="checkbox"/>	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-2C	<input type="checkbox"/>	250mW (24 dBm) or 11dBm+10logB* Whichever is less.
U-NII-3	<input checked="" type="checkbox"/>	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

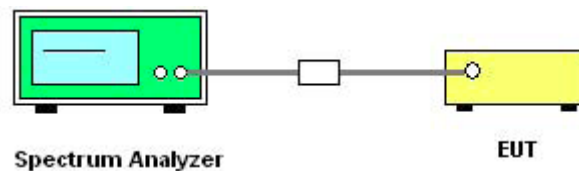
There is no limit bandwidth for band U-NII-1, U-NII-2A and U-NII-2C.

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)

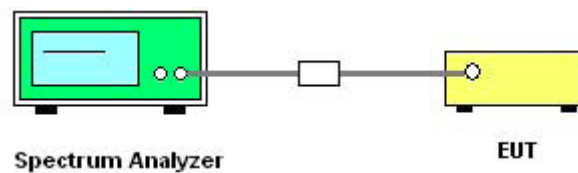
The maximum power spectral density should not exceed:

Band	EUT Category	Limit
U-NII-1	<input checked="" type="checkbox"/> Access Point (Master device)	17 dBm/MHz
	<input type="checkbox"/> Fixed point-to-point Access device	
	<input type="checkbox"/> Mobile and portable client device	11 dBm/MHz
U-NII-2A	<input type="checkbox"/>	11 dBm/MHz
U-NII-2C	<input type="checkbox"/>	11 dBm/MHz
U-NII-3	<input checked="" type="checkbox"/>	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

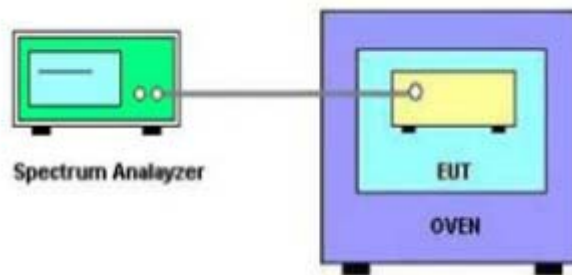
### 2.5.1. Limit

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 (uV/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:

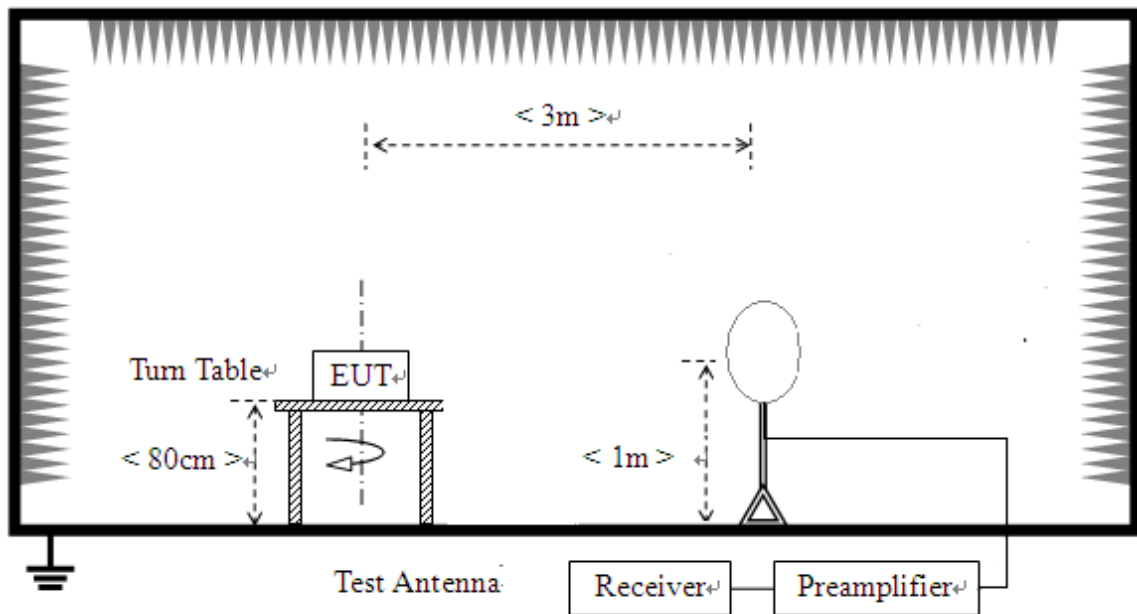
$$E = \frac{1000000 \sqrt{30P}}{3} \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

### 2.6.2. Measuring Instruments

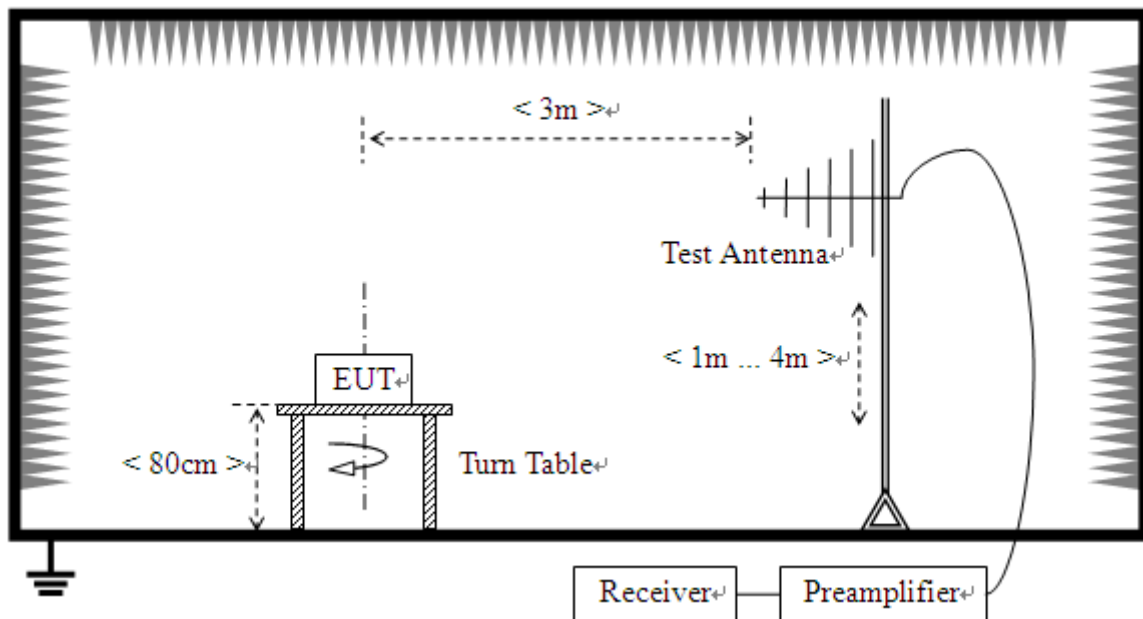
The measuring equipment is listed in the section 3 of this test report.

### 2.6.3. Test Setup

For radiated emissions from 9 KHz to 30 MHz

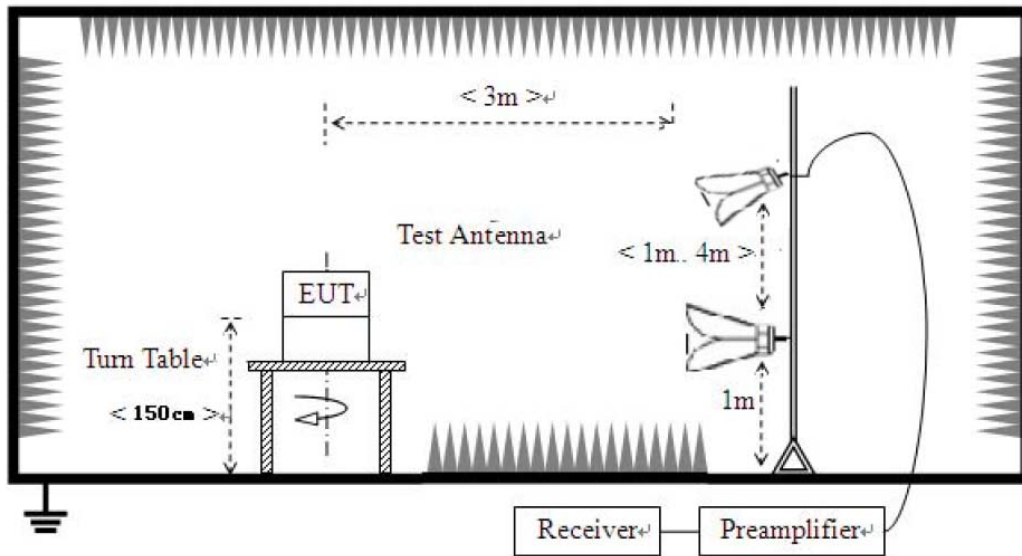


For radiated emissions from 30MHz to 1GHz





### 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:

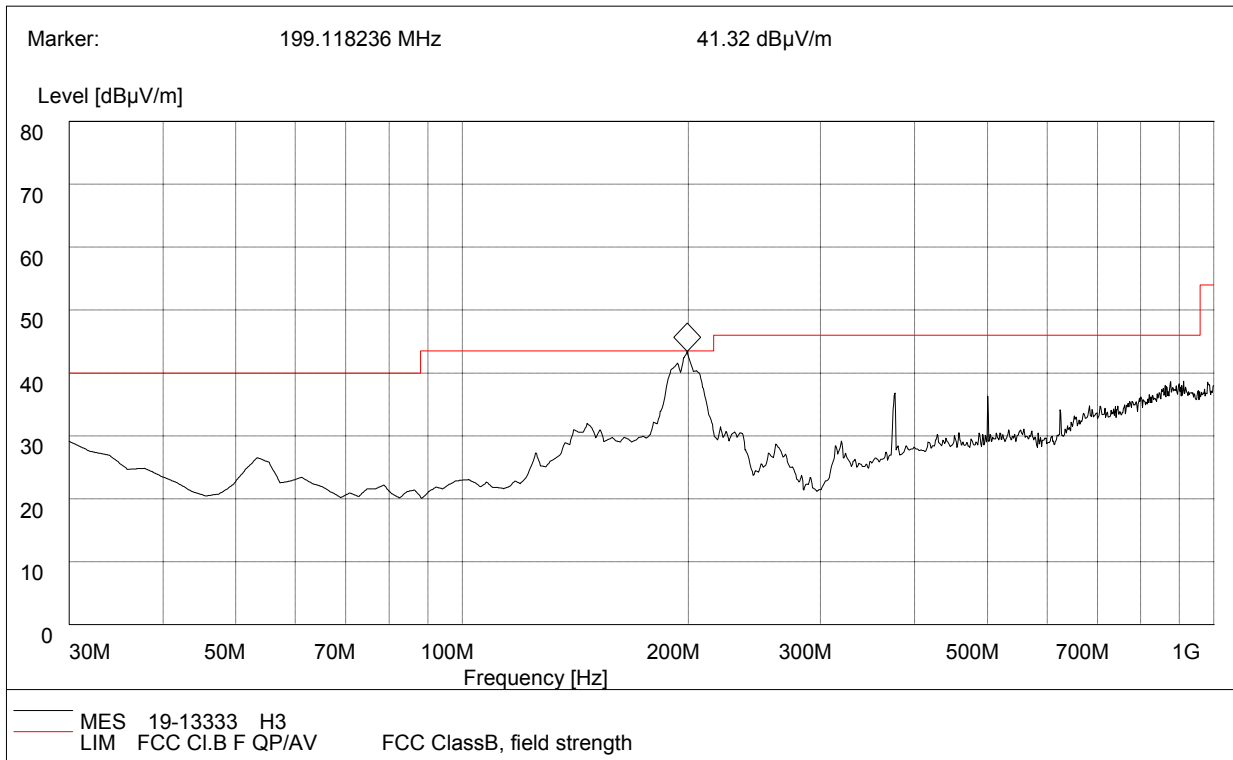
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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. Only provide worst-Case mode data provide here, ANT0 for 11a and MIMO mode for 11n/11n(40M)/11ac/11ac(40M)/11ac(80M) for above 1GHz, 11n(40M) MIMO mode for Below 1GHz .

### 2.6.5. Test Results of Radiated Band Edge and Spurious Emission

#### For 9 KHz to 30MHz

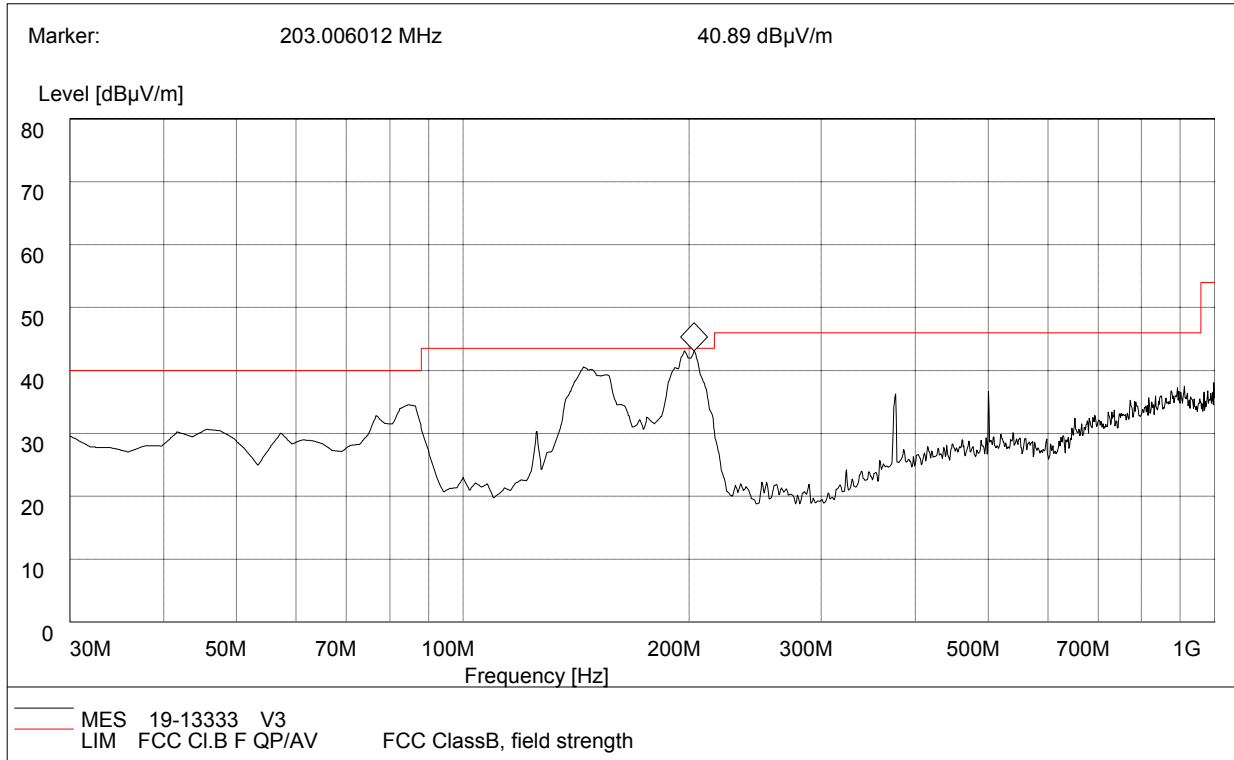
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

#### For 30MHz to 1000 MHz



30MHz to 1GHz, Antenna Horizontal

Frequency (MHz)	QuasiPeak (dB µ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB µ V/m)	Antenna	Verdict
199.11	41.32	120.000	200.0	43.5	Horizontal	Pass



30MHz to 1GHz, Antenna Vertical

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Antenna	Verdict
203	40.89	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)	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	57.54	PK	68.20	-10.66	1.60	300	50.04	7.50
2	5150.00	47.38	AV	54.00	-6.62	1.60	300	39.88	7.50
3	10360.00	58.32	PK	68.20	-9.88	1.60	300	38.52	19.80

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11a\_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	56.95	PK	68.20	-11.25	1.80	120	49.45	7.50
2	5150.00	47.19	AV	54.00	-6.81	1.80	120	39.69	7.50
3	10360.00	55.14	PK	68.20	-13.06	1.80	120	35.34	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	58.26	PK	68.20	-9.94	1.50	200	38.36	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	57.36	PK	68.20	-10.84	1.70	160	37.46	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	55.97	PK	68.20	-12.23	1.70	330	47.97	8.00
2	5350.00	45.61	AV	54.00	-8.39	1.70	330	37.61	8.00
3	10480.00	56.87	PK	68.20	-11.33	1.70	330	36.97	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	57.71	PK	68.20	-10.49	1.80	98	49.71	8.00
2	5350.00	48.06	AV	54.00	-5.94	1.80	98	40.06	8.00
3	10480.00	56.64	PK	68.20	-11.56	1.80	98	36.74	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	59.35	PK	68.20	-8.85	1.50	180	49.70	9.65
2	11490.00	56.38	PK	68.20	-11.82	1.50	180	34.68	21.70
3	11490.00	46.22	AV	54.00	-7.78	1.50	180	24.52	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	58.15	PK	68.20	-10.05	1.60	120	48.50	9.65
2	11490.00	55.94	PK	68.20	-12.26	1.60	120	34.24	21.70
3	11490.00	46.55	AV	54.00	-7.45	1.60	120	24.85	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	56.32	PK	68.20	-11.88	1.50	200	34.62	21.70
2	11570.00	46.58	AV	54.00	-7.42	1.50	200	24.88	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	56.66	PK	68.20	-11.54	1.70	190	34.96	21.70
2	11570.00	46.53	AV	54.00	-7.47	1.70	190	24.83	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	56.98	PK	68.20	-11.22	1.70	190	47.20	9.78
2	11650.00	57.13	PK	68.20	-11.07	1.70	190	35.23	21.90
3	11650.00	47.71	AV	54.00	-6.29	1.70	190	25.81	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	57.19	PK	68.20	-11.01	1.60	180	47.41	9.78
2	11650.00	56.02	PK	68.20	-12.18	1.60	180	34.12	21.90
3	11650.00	46.07	AV	54.00	-7.93	1.60	180	24.17	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	58.21	PK	68.20	-9.99	1.60	300	50.71	7.50
2	5150.00	48.05	AV	54.00	-5.95	1.60	300	40.55	7.50
3	10360.00	57.11	PK	68.20	-11.09	1.60	300	37.31	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	55.62	PK	68.20	-12.58	1.80	120	48.12	7.50
2	5150.00	45.86	AV	54.00	-8.14	1.80	120	38.36	7.50
3	10360.00	54.98	PK	68.20	-13.22	1.80	120	35.18	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	57.25	PK	68.20	-10.95	1.50	200	37.35	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	56.95	PK	68.20	-11.25	1.70	160	37.05	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	56.47	PK	68.20	-11.73	1.70	330	48.47	8.00
2	5350.00	46.11	AV	54.00	-7.89	1.70	330	38.11	8.00
3	10480.00	57.32	PK	68.20	-10.88	1.70	330	37.42	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	56.25	PK	68.20	-11.95	1.80	98	48.25	8.00
2	5350.00	46.60	AV	54.00	-7.4	1.80	98	38.60	8.00
3	10480.00	55.97	PK	68.20	-12.23	1.80	98	36.07	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	58.14	PK	68.20	-10.06	1.50	180	48.49	9.65
2	11490.00	56.64	PK	68.20	-11.56	1.50	180	34.94	21.70
3	11490.00	46.48	AV	54.00	-7.52	1.50	180	24.78	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	57.32	PK	68.20	-10.88	1.60	120	47.67	9.65
2	11490.00	56.85	PK	68.20	-11.35	1.60	120	35.15	21.70
3	11490.00	47.46	AV	54.00	-6.54	1.60	120	25.76	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	57.33	PK	68.20	-10.87	1.50	200	35.63	21.70
2	11570.00	47.59	AV	54.00	-6.41	1.50	200	25.89	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	56.21	PK	68.20	-11.99	1.70	190	34.51	21.70
2	11570.00	46.08	AV	54.00	-7.92	1.70	190	24.38	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	55.97	PK	68.20	-12.23	1.70	190	46.19	9.78
2	11650.00	56.24	PK	68.20	-11.96	1.70	190	34.34	21.90
3	11650.00	46.82	AV	54.00	-7.18	1.70	190	24.92	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	56.24	PK	68.20	-11.96	1.60	180	46.46	9.78
2	11650.00	55.67	PK	68.20	-12.53	1.60	180	33.77	21.90
3	11650.00	45.72	AV	54.00	-8.28	1.60	180	23.82	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	56.95	PK	68.20	-11.25	1.50	260.00	49.45	7.50
2	5150.00	46.17	AV	54.00	-7.83	1.50	260.00	38.67	7.50
3	10380.00	58.15	PK	68.20	-10.047	1.50	260.00	38.35	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	54.18	PK	68.20	-14.02	1.60	300.00	46.68	7.50
2	5150.00	44.44	AV	54.00	-9.56	1.60	300.00	36.94	7.50
3	10380.00	55.69	PK	68.20	-12.51	1.60	300.00	35.89	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	55.62	PK	68.20	-12.58	1.50	260.00	47.62	8.00
2	5350.00	45.34	AV	54.00	-8.66	1.50	260.00	37.34	8.00
3	10460.00	56.12	PK	68.20	-12.08	1.50	260.00	36.22	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	56.25	PK	68.20	-11.95	1.60	300.00	48.25	8.00
2	5350.00	46.12	AV	54.00	-7.88	1.60	300.00	38.12	8.00
3	10460.00	55.95	PK	68.20	-21.54	1.60	320.00	36.05	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	59.32	PK	68.20	-8.88	1.50	126.00	49.67	9.65
2	5725.00	50.96	AV	54.00	-3.04	1.50	126.00	41.31	9.65
3	11510.00	54.13	PK	68.20	-14.07	1.50	126.00	32.43	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	58.16	PK	68.20	-10.04	1.50	170.00	48.51	9.65
2	5725.00	47.51	AV	54.00	-6.49	1.50	170.00	37.86	9.65
3	11510.00	52.62	PK	68.20	-15.58	1.50	170.00	30.92	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	55.62	PK	68.20	-12.58	1.70	180.00	45.84	9.78
2	5850.00	44.88	AV	54.00	-9.12	1.70	180.00	35.10	9.78
3	11590.00	53.62	PK	68.20	-14.58	1.70	180.00	31.82	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	53.21	PK	68.20	-14.99	1.70	330.00	43.43	9.78
2	5850.00	42.56	AV	54.00	-11.44	1.70	330.00	32.78	9.78
3	11590.00	51.98	PK	68.20	-16.22	1.70	330.00	30.18	21.80

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20\_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	57.94	PK	68.20	-10.26	1.60	200	50.44	7.50
2	5150.00	47.78	AV	54.00	-6.22	1.60	200	40.28	7.50
3	10360.00	56.24	PK	68.20	-11.96	1.60	200	36.44	19.80

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20\_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	57.95	PK	68.20	-10.25	1.60	240	50.45	7.50
2	5150.00	48.19	AV	54.00	-5.81	1.60	240	40.69	7.50
3	10360.00	55.94	PK	68.20	-12.26	1.60	240	36.14	19.80

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20\_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	55.97	PK	68.20	-12.23	1.70	180	36.07	19.90

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20\_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	57.94	PK	68.20	-10.26	1.70	160	38.04	19.90

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20\_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	55.98	PK	68.20	-12.22	1.70	330	47.98	8.00
2	5350.00	45.62	AV	54.00	-8.38	1.70	330	37.62	8.00
3	10480.00	58.36	PK	68.20	-9.84	1.70	330	38.46	19.90

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20\_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	1.80	98	47.94	8.00
2	5350.00	46.29	AV	54.00	-7.71	1.80	98	38.29	8.00
3	10480.00	56.37	PK	68.20	-11.83	1.80	98	36.47	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	57.64	PK	68.20	-10.56	1.50	180	47.99	9.65
2	11490.00	55.97	PK	68.20	-12.23	1.50	180	34.27	21.70
3	11490.00	45.81	AV	54.00	-8.19	1.50	180	24.11	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	56.48	PK	68.20	-11.72	1.60	120	46.83	9.65
2	11490.00	54.95	PK	68.20	-13.25	1.60	120	33.25	21.70
3	11490.00	45.56	AV	54.00	-8.44	1.60	120	23.86	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	57.19	PK	68.20	-11.01	1.50	200	35.49	21.70
2	11570.00	47.45	AV	54.00	-6.55	1.50	200	25.75	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	56.23	PK	68.20	-11.97	1.70	190	34.53	21.70
2	11570.00	46.10	AV	54.00	-7.9	1.70	190	24.40	21.70

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac20\_5825MHz)**

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	5850.00	56.95	PK	68.20	-11.25	1.70	190	47.17	9.78
2	11650.00	57.23	PK	68.20	-10.97	1.70	190	35.33	21.90
3	11650.00	47.81	AV	54.00	-6.19	1.70	190	25.91	21.90

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac20\_5825MHz)**

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	5850.00	58.64	PK	68.20	-9.56	1.60	180	48.86	9.78
2	11650.00	54.98	PK	68.20	-13.22	1.60	180	33.08	21.90
3	11650.00	45.03	AV	54.00	-8.97	1.60	180	23.13	21.90

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40\_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	57.26	PK	68.20	-10.94	1.40	320.00	49.76	7.50
2	5150.00	46.93	AV	54.00	-7.07	1.40	320.00	39.43	7.50
3	10380.00	54.25	PK	68.20	-13.95	1.40	320.00	34.45	19.80

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40\_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	58.65	PK	68.20	-9.55	1.80	180.00	51.15	7.50
2	5150.00	48.91	AV	54.00	-5.09	1.80	180.00	41.41	7.50
3	10380.00	56.32	PK	68.20	-11.88	1.80	180.00	36.52	19.80

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40\_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	56.32	PK	68.20	-11.88	1.50	120.00	48.32	8.00
2	5350.00	46.04	AV	54.00	-7.96	1.50	120.00	38.04	8.00
3	10460.00	58.25	PK	68.20	-9.95	1.50	120.00	38.35	19.90

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40\_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	55.10	PK	68.20	-13.1	1.60	300.00	47.10	8.00
2	5350.00	48.95	AV	54.00	-5.05	1.60	300.00	40.95	8.00
3	10460.00	59.36	PK	68.20	-8.84	1.60	320.00	39.46	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	56.95	PK	68.20	-11.25	1.80	320.00	47.30	9.65
2	5725.00	47.97	AV	54.00	-6.03	1.80	320.00	38.32	9.65
3	11510.00	57.25	PK	68.20	-10.95	1.80	320.00	35.55	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	55.58	PK	68.20	-12.62	1.70	180.00	45.93	9.65
2	5725.00	44.93	AV	54.00	-9.07	1.70	180.00	35.28	9.65
3	11510.00	58.16	PK	68.20	-10.04	1.70	180.00	36.46	21.70

**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac40\_5795MHz)**

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	5850.00	58.64	PK	68.20	-9.56	1.70	180.00	48.86	9.78
2	5850.00	47.90	AV	54.00	-6.1	1.70	180.00	38.12	9.78
3	11590.00	57.12	PK	68.20	-11.08	1.70	180.00	35.32	21.80

**ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M (802.11ac40\_5795MHz)**

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	5850.00	54.95	PK	68.20	-13.25	1.70	260.00	45.17	9.78
2	5850.00	44.30	AV	54.00	-9.7	1.70	260.00	34.52	9.78
3	11590.00	56.36	PK	68.20	-11.84	1.70	260.00	34.56	21.80



<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5210MHz)</b>									
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	57.65	PK	68.20	-10.55	1.50	300.00	50.15	7.50
2	5150.00	46.99	AV	54.00	-7.01	1.50	300.00	39.49	7.50
3	10420.00	56.95	PK	68.20	-11.25	1.50	300.00	37.05	19.90
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5210MHz)</b>									
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	55.95	PK	68.20	-12.25	1.60	250.00	48.45	7.50
2	5150.00	45.97	AV	54.00	-8.03	1.60	250.00	38.47	7.50
3	10420.00	57.32	PK	68.20	-10.88	1.60	250.00	37.42	19.90



<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M (802.11ac-VHT80_5775MHz)</b>									
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	57.05	PK	68.20	-11.15	1.50	320.00	47.27	9.78
2	5460.00	49.31	AV	54.00	-4.69	1.50	320.00	39.53	9.78
3	11550.00	55.95	PK	68.20	-12.25	1.50	320.00	34.15	21.80
4	11550.00	45.21	AV	54.00	-8.79	1.50	320.00	23.41	21.80
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M (802.11ac-VHT80_5775MHz)</b>									
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	53.62	PK	68.20	-14.58	1.80	280.00	43.84	9.78
2	5460.00	44.97	AV	54.00	-9.03	1.80	280.00	35.19	9.78
3	11550.00	57.85	PK	68.20	-10.35	1.80	280.00	36.05	21.80
4	11550.00	47.27	AV	54.00	-6.73	1.80	280.00	25.47	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,

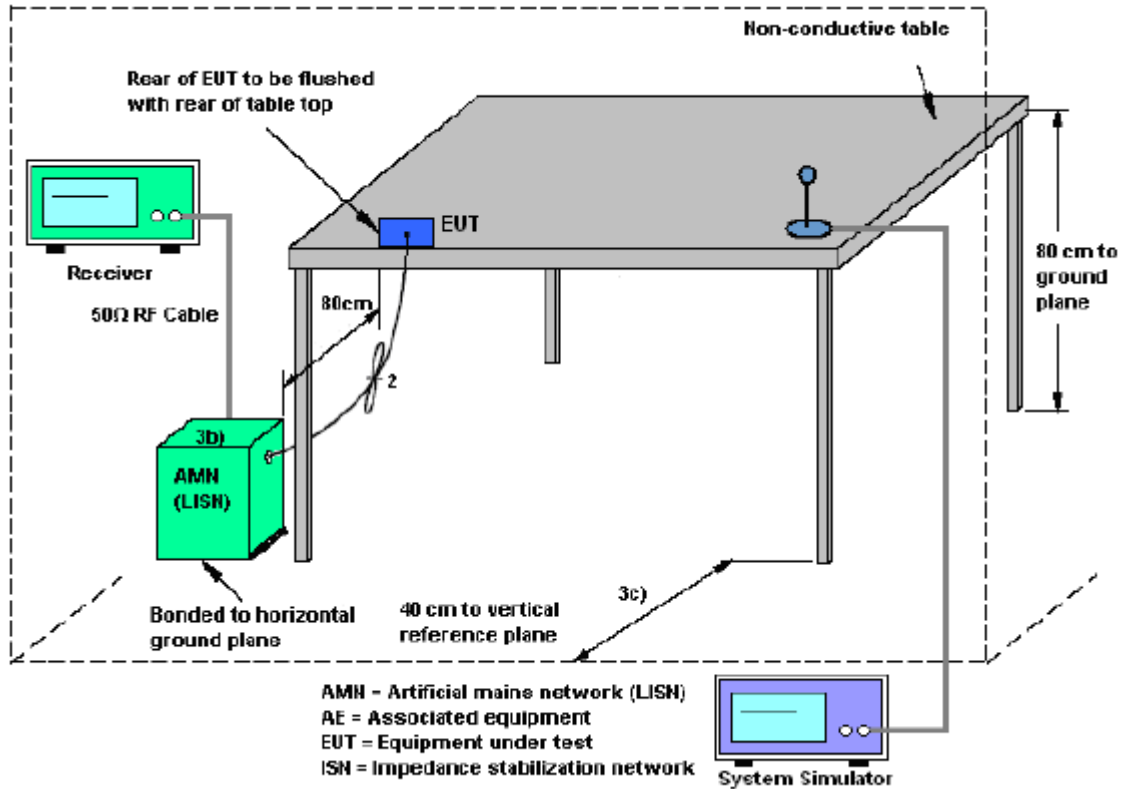
For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

### 2.7.2. Measuring Instruments

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

### 2.7.3. Test Setup

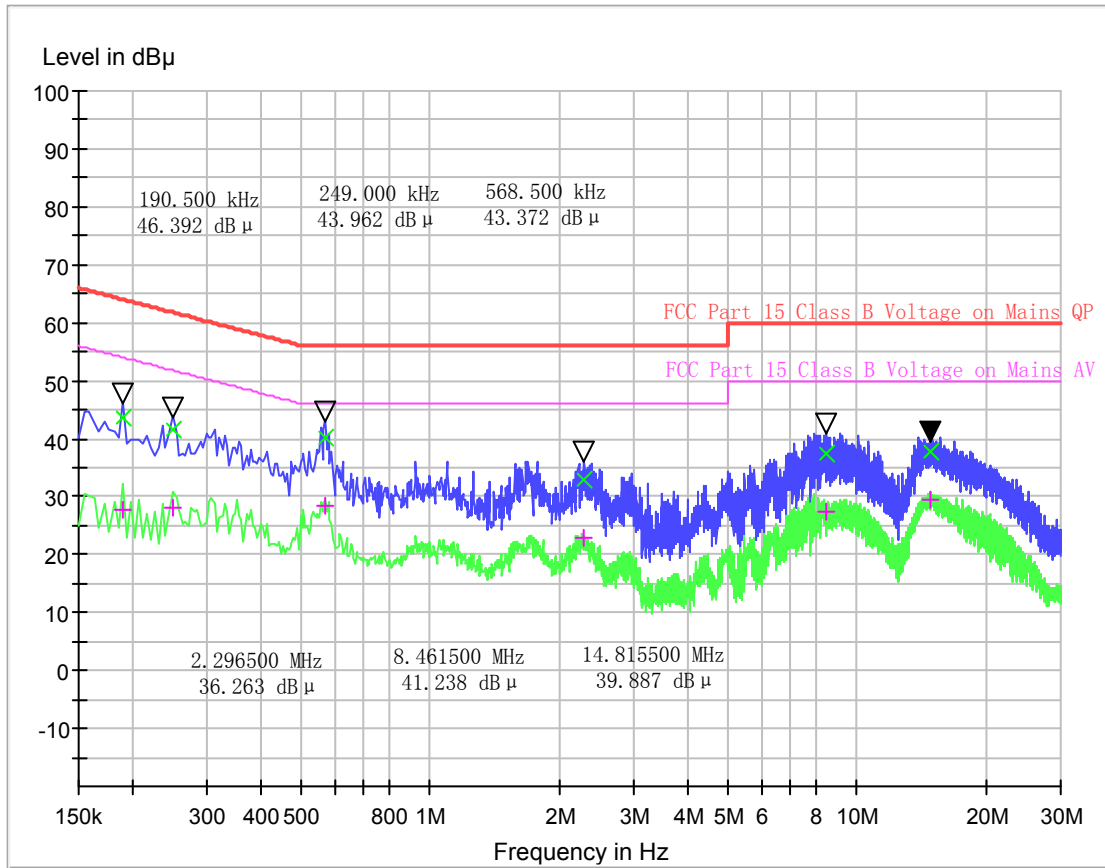


#### **2.7.4. Test Procedures**

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

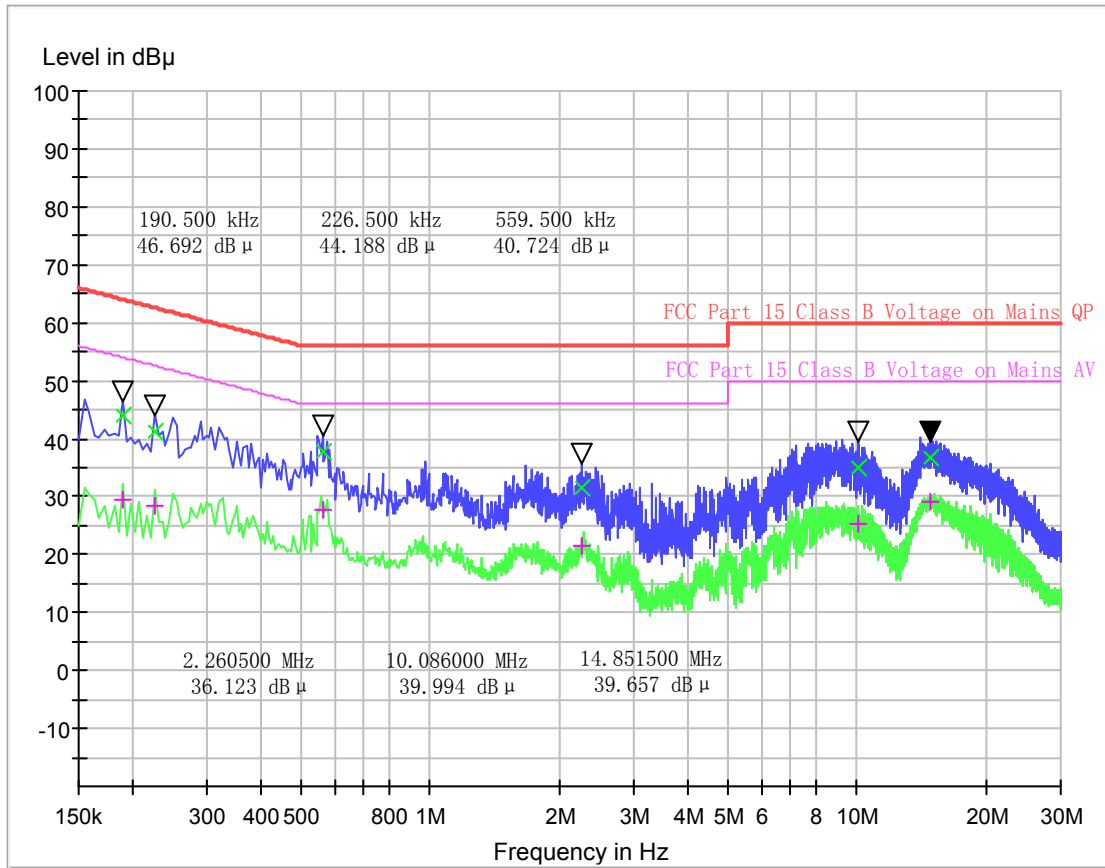
#### **2.7.5. Test Results of Conducted Emission**

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



(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dB µ V)	CAverage (dB µ V)	Cabel Loss (dB)	Corr. (dB)	Margin - QPK	Limit - QPK	Margin - AV	Limit - AV (dB µ V)
0.1905	43.65	27.73	0.1	10.1	20.35	64	26.27	54
0.249	41.4	28.23	0.1	10.1	20.4	61.8	23.57	51.8
0.5685	40.29	28.29	0.6	10.6	15.71	56	17.71	46
2.2965	33.04	22.82	0.6	10.6	22.96	56	23.18	46
8.4615	37.29	27.52	0.6	10.6	22.71	60	22.48	50
14.8155	37.82	29.42	0.7	10.7	22.18	60	20.58	50



(Plot A: N Phase)

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)
0.1905	44.02	29.51	0.1	10.1	21.98	66	26.49	56
0.2265	41.24	28.43	0.1	10.1	22.76	64	25.57	54
0.5595	37.66	27.83	0.6	10.6	22.24	59.9	22.07	49.9
2.2605	31.65	21.59	0.6	10.6	25.45	57.1	25.51	47.1
10.086	35.11	25.32	0.6	10.6	20.89	56	20.68	46
14.8515	36.62	29.13	0.7	10.7	19.38	56	16.87	46

**Test result:PASS**

### 3. List of measuring equipment

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI TEST RECEIVER	R&S	ESW26	A180502935	2018.11.1	2019.10.31
2	Power Meter	R&S	NRP-Z31	102872	2019.5.5	2020.05.04
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	AT4002A	305753	2017.11.10	2020.11.09
7	Amplifer	MILMEGA	80RF1000-250	A140901925	2017.10.09	2020.10.08
8	JS amplifer	AR	25S1G4AM1	A0304248	2017.10.09	2020.10.08
9	High pass filter	Compliance Direction systems	BSU-6	34202	2018.11.11	2019.11.10
13	Horn Antenna	ShwarzBeck	9120D	1012	2018.11.11	2019.11.10
14	Horn Antenna	ShwarzBeck	BBHA9170	25841	2018.11.11	2019.11.10
15	ULTRA-BROADBAND ANTENNA	R&S	HL562	A0304224	2017.07.14	2020.07.13
16	Passive Loop Antenna	R&S	HFH2-Z2	100047	2019.04.26	2022.04.25
17	Temperature chamber	Dongguan gaoda instrument CO.LTD	GD-7005-100	130130101	2019.04.22	2020.04.21
18	Spectrum Analyzer	Keysight	N9030A	A160702554	2018.11.15	2019.11.14
19	Power Supply	R&S	NGMO1	101037	2019.08.03	2020.08.02
20	EMI TEST RECEIVER	KEYSIGHT	ESIB26	A0304218	2019.05.20	2020.05.19
21	LISN	ROHDE&SCHWARZ	ENV216	A140701847	2018.12.10	2019.12.10
22	Cable	MATCHING PAD	W7	/	2019.01.02	2020.01.01

## Appendix A

### Conducted output power Test results

#### Conducted Power Test results of band U-NII-1 (5150 ~ 5250 MHz)

802.11a mode					
Frequency (MHz)	Conducted Output Power (dBm)		FCC Limit (dBm)	Result	
	Antenna 1	Antenna 2			
5180	15.98	15.70	29.99	PASS	
5220	15.83	14.59	29.99	PASS	
5240	15.91	14.76	29.99	PASS	
802.11n-HT20 mode					
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
5180	12.25	12.12	15.20	29.99	PASS
5220	11.95	12.41	15.20	29.99	PASS
5240	12.03	12.18	15.12	29.99	PASS
802.11n-HT40 mode					
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
5190	11.97	11.55	14.78	29.99	PASS
5230	12.24	11.79	15.03	29.99	PASS
802.11ac-VHT20 mode					
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
5180	11.55	11.04	14.31	29.99	PASS
5220	11.19	11.22	14.22	29.99	PASS
5240	10.56	11.32	13.97	29.99	PASS

Note: For 802.11n/ac, antenna 0, 1 can transmit/receive simultaneously (MIMO mode), The MIMO antenna directional gain is 6.01dBi, the applicable output power limit shall be calculated as follows:  
 $P_{out} = P_{limit} - (G_{TX} - 6) = 30 - (6.01 - 6) = 29.99 \text{ dBm}$



802.11ac-VHT40 mode					
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
5190	12.52	11.43	15.02	29.99	PASS
5230	12.07	11.49	14.80	29.99	PASS

802.11ac-VHT80 mode					
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
5210	12.05	11.46	14.78	29.99	PASS



**Conducted Power Test results of band U-NII-3 (5725 ~ 5850 MHz)**

802.11a mode							
Frequency (MHz)	Conducted Output Power (dBm)		FCC Limit (dBm)	Result			
	Antenna 1	Antenna 2					
5745	17.16	16.04	29.99	PASS			
5785	15.16	14.64	29.99	PASS			
5825	14.19	15.86	29.99	PASS			
802.11n-HT20 mode							
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result		
	Antenna 1	Antenna 2	Total				
5745	13.86	12.26	16.14	29.99	PASS		
5785	12.33	13.32	15.86	29.99	PASS		
5825	10.88	12.24	14.62	29.99	PASS		
802.11n-HT40 mode							
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result		
	Antenna 1	Antenna 2	Total				
5755	13.03	12.47	15.77	29.99	PASS		
5795	11.84	13.22	15.59	29.99	PASS		
802.11ac-VHT20 mode							
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result		
	Antenna 1	Antenna 2	Total				
5745	12.23	12.55	15.40	29.99	PASS		
5785	11.45	12.66	15.11	29.99	PASS		
5825	11.15	12.33	14.79	29.99	PASS		
802.11ac-VHT40 mode							
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result		
	Antenna 1	Antenna 2	Total				
5755	12.72	13.13	15.94	29.99	PASS		
5795	11.95	12.36	15.17	29.99	PASS		





802.11ac-VHT80 mode					
Test Frequency (MHz)	Conducted Output Power (dBm)			FCC Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
5775	12.79	12.99	15.90	29.99	PASS

Note: For 802.11n/ac, antenna 0, 1 can transmit/receive simultaneously (MIMO mode), The MIMO antenna directional gain is 6.01dBi , the applicable output power limit shall be calculated as follows:  
 $P_{out} = P_{limit} - (G_{TX} - 6) = 30 - (6.01 - 6) = 29.99\text{dBm}$

## AVGSA Power Spectral Density

### Conducted PSD Test results of band U-NII-1 (5150~5250MHz)

802.11a mode					
Test Frequency (MHz)	Power Spectral Density (dBm/MHz)		Limit (dBm/MHz)	Result	
	Antenna 1	Antenna 2			
5180	5.252	3.213	16.99	PASS	
5220	5.225	3.415	16.99	PASS	
5240	4.649	3.298	16.99	PASS	
802.11n-HT20 mode					
Test Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
	Antenna 1	Antenna 2	Total		
5180	1.193	1.560	4.39	16.99	PASS
5220	-0.450	1.050	3.37	16.99	PASS
5240	1.204	1.365	4.30	16.99	PASS
802.11n-HT40 mode					
Test Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
	Antenna 1	Antenna 2	Total		
5190	-2.123	-2.074	0.91	16.99	PASS
5230	-1.502	-2.095	1.22	16.99	PASS
802.11ac-VHT20 mode					
Test Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
	Antenna 1	Antenna 2	Total		
5180	0.620	-1.541	2.68	16.99	PASS
5220	0.507	-0.969	2.84	16.99	PASS
5240	-0.093	0.926	3.46	16.99	PASS
802.11ac-VHT40 mode					
Test Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
	Antenna 1	Antenna 2	Total		
5190	-1.538	-2.512	1.01	16.99	PASS
5230	-1.880	-2.411	0.87	16.99	PASS
802.11n-VHT80 mode					
Test Frequency (MHz)	Power Spectral Density (dBm/MHz)			Limit (dBm/MHz)	Result
	Antenna 1	Antenna 2	Total		
5210	-4.384	-5.298	-1.81	16.99	PASS

Note: For 802.11n/ac, antenna 0, 1 can transmit/receive simultaneously (MIMO mode), The MIMO antenna directional gain is 6.01dBi, the applicable Power Spectral Density limit shall be calculated as follows:

$$\text{PSDlimit}-(G_{\text{TX}}-6)=17-(6.01-6)=16.99\text{dBm/MHz}$$

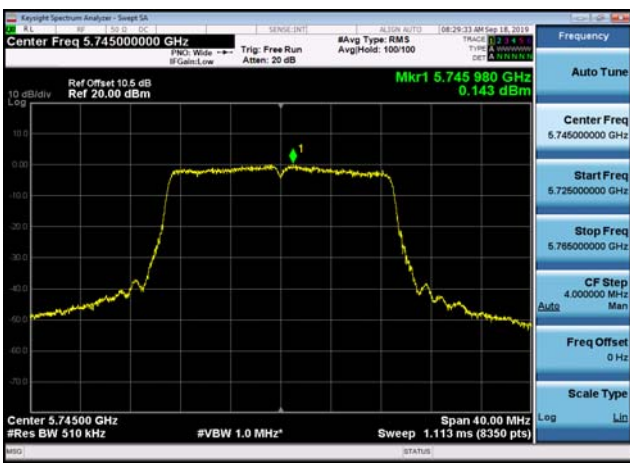
**Conducted PSD Test results of band U-NII-3 (5725 ~ 5850 MHz)**

802.11a mode						
Test Frequency (MHz)	Power Spectral Density (dBm/500kHz)		Limit (dBm/500KHz)	Result		
	Antenna 1	Antenna 2				
5745	3.779	2.826	29.99	PASS		
5785	2.061	4.149	29.99	PASS		
5825	0.821	2.571	29.99	PASS		
802.11n-HT20 mode						
Test Frequency (MHz)	Power Spectral Density (dBm/500kHz)			Limit (dBm/500KHz)	Result	
	Antenna 1	Antenna 2	Total			
5745	0.143	0.023	3.09	29.99	PASS	
5785	-1.289	-1.555	1.59	29.99	PASS	
5825	-2.242	-1.204	1.32	29.99	PASS	
802.11n-HT40 mode						
Test Frequency (MHz)	Power Spectral Density (dBm/500kHz)			Limit (dBm/500KHz)	Result	
	Antenna 1	Antenna 2	Total			
5755	-4.012	-4.007	-1.00	29.99	PASS	
5795	-4.218	-3.043	-0.58	29.99	PASS	
802.11ac-VHT20 mode						
Test Frequency (MHz)	Power Spectral Density (dBm/500kHz)			Limit (dBm/500KHz)	Result	
	Antenna 1	Antenna 2	Total			
5745	-0.950	-0.995	2.04	29.99	PASS	
5785	-1.674	-1.217	1.57	29.99	PASS	
5825	-1.244	-1.117	1.83	29.99	PASS	
802.11ac-VHT40 mode						
Test Frequency (MHz)	Power Spectral Density (dBm/500kHz)			Limit (dBm/500KHz)	Result	
	Antenna 1	Antenna 2	Total			
5755	-3.869	-3.062	-0.44	29.99	PASS	
5795	-4.586	-4.164	-1.36	29.99	PASS	
802.11n-VHT80 mode						
Test Frequency (MHz)	Power Spectral Density (dBm/500kHz)			Limit (dBm/500KHz)	Result	
	Antenna 1	Antenna 2	Total			
5775	-6.416	-6.050	-3.22	29.99	PASS	

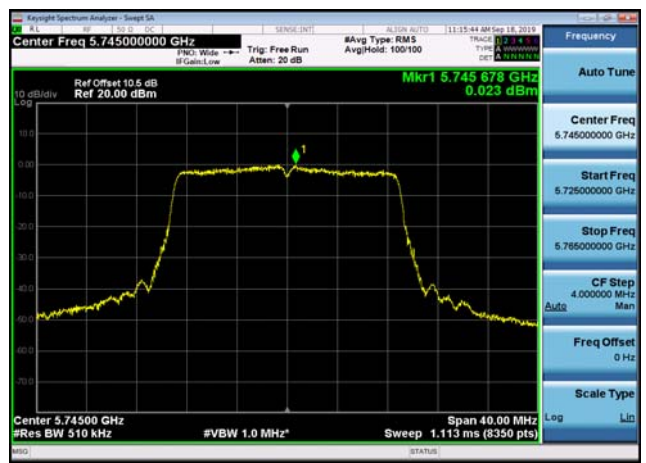
Note: For 802.11n/ac, antenna 0, 1 can transmit/receive simultaneously (MIMO mode), The MIMO antenna directional gain is 6.01dBi, the applicable Power Spectral Density limit shall be calculated as follows:  
 $PSD_{limit}-(G_{TX}-6)=30-(6.01-6)=29.99\text{dBm/MHz}$

### Test Plots

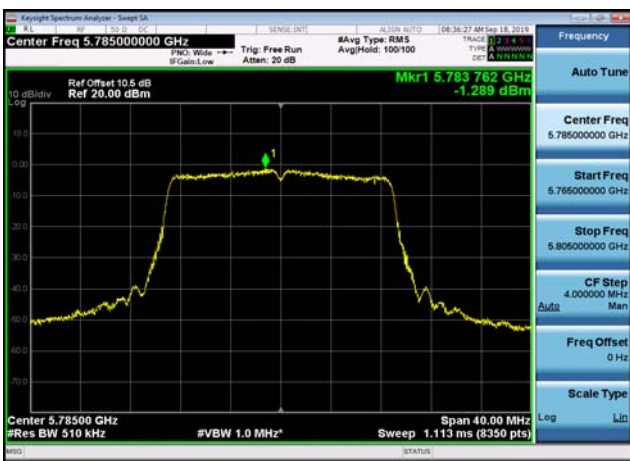
U-NII-3 Power spectral density-802.11  
n(20MHz),5745MHz,Ant1



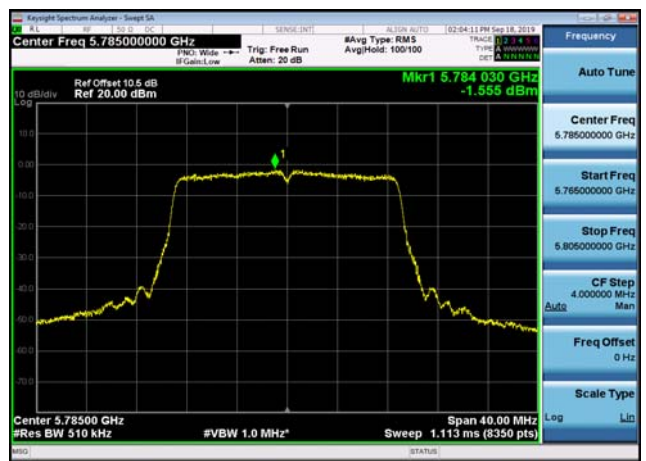
U-NII-3 Power spectral density-802.11  
n(20MHz),5745MHz,Ant2



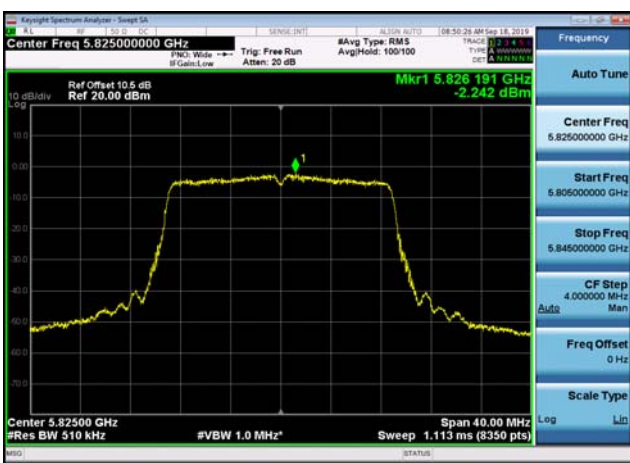
U-NII-3 Power spectral density-802.11  
n(20MHz),5785MHz,Ant1



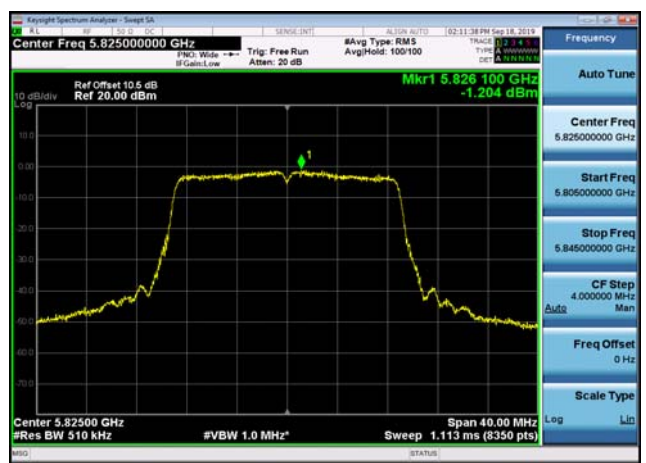
U-NII-3 Power spectral density-802.11  
n(20MHz),5785MHz,Ant2



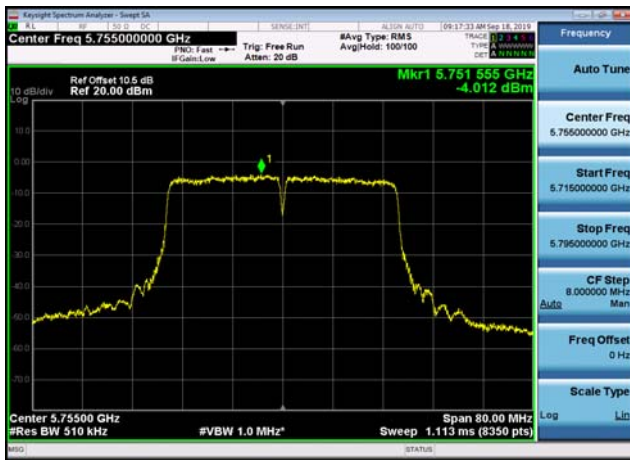
U-NII-3 Power spectral density-802.11  
n(20MHz),5825MHz,Ant1



U-NII-3 Power spectral density-802.11  
n(20MHz),5825MHz,Ant2



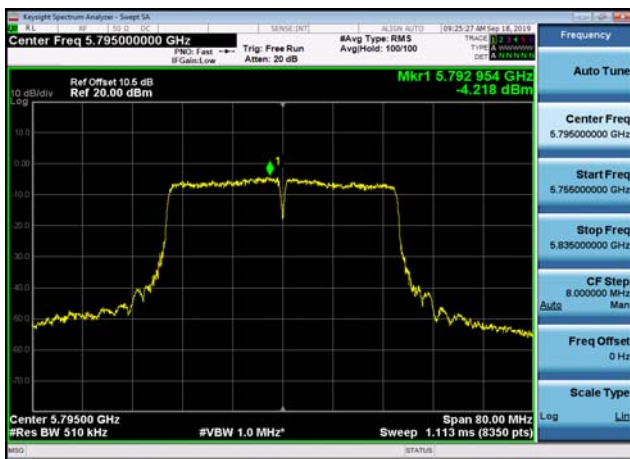
U-NII-3 Power spectral density-802.11  
n(40MHz),5755MHz,Ant1



U-NII-3 Power spectral density-802.11  
n(40MHz),5755MHz,Ant2



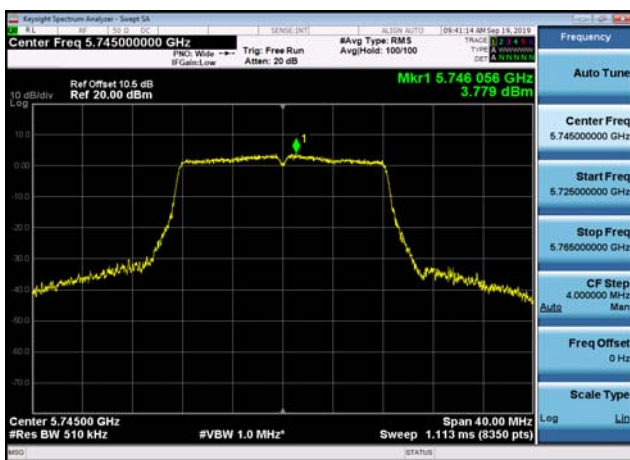
U-NII-3 Power spectral density-802.11  
n(40MHz),5795MHz,Ant1



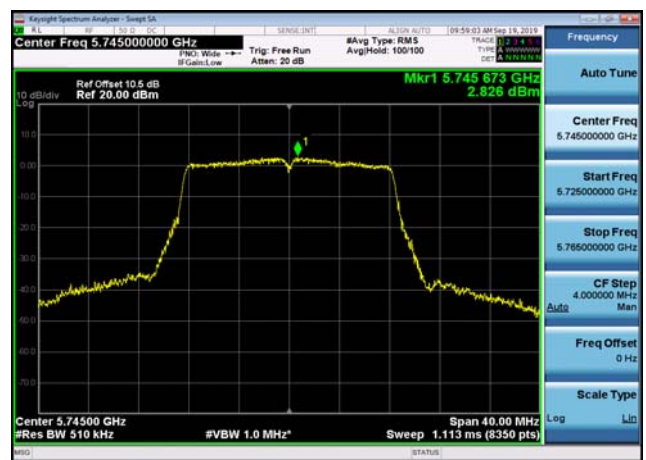
U-NII-3 Power spectral density-802.11  
n(40MHz),5795MHz,Ant2



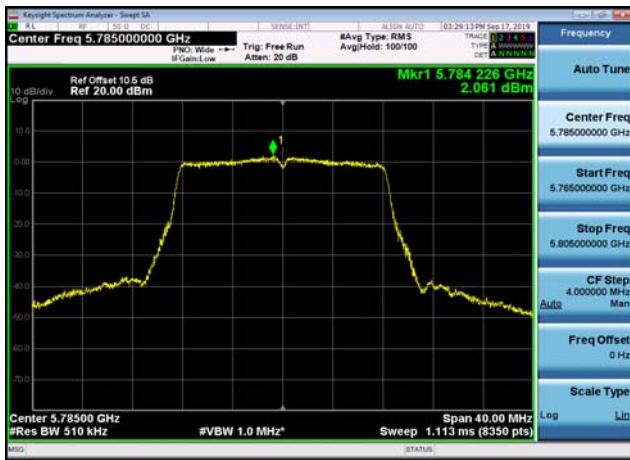
U-NII-3 Power spectral density-802.11  
a(20MHz),5745MHz,Ant1



U-NII-3 Power spectral density-802.11  
a(20MHz),5745MHz,Ant2



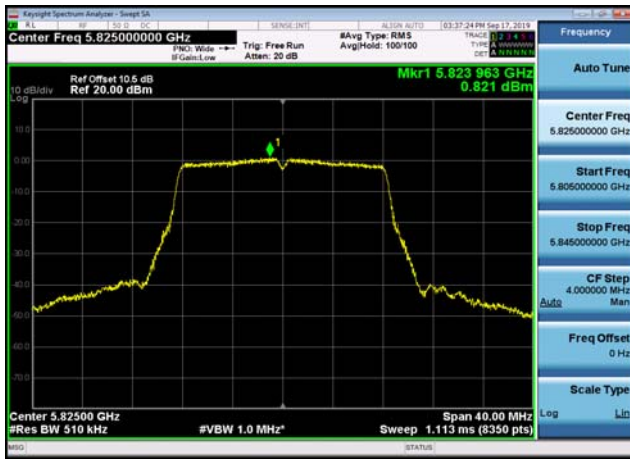
U-NII-3 Power spectral density-802.11  
a(20MHz),5785MHz,Ant1



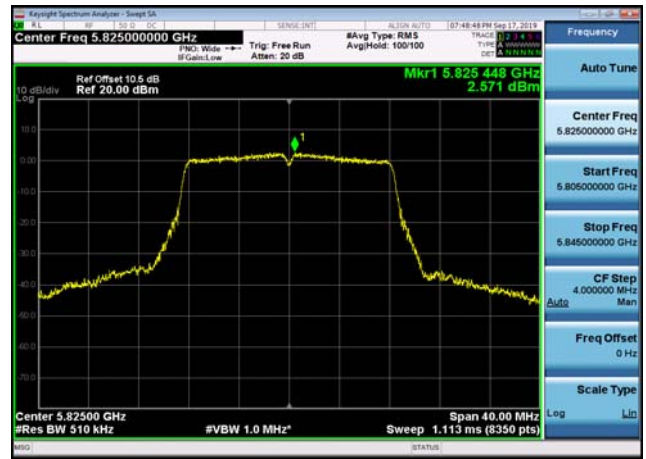
U-NII-3 Power spectral density-802.11  
a(20MHz),5785MHz,Ant2



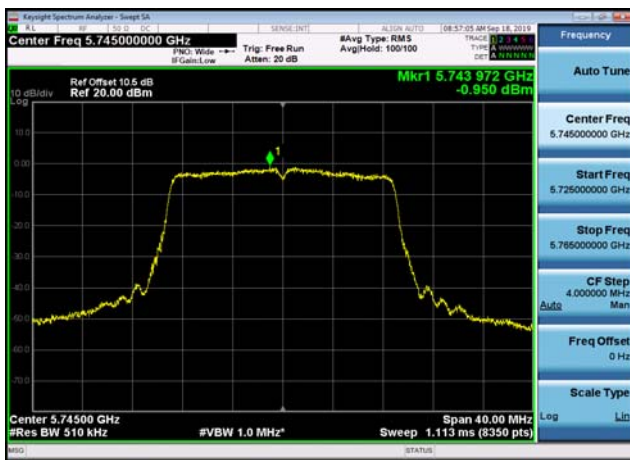
U-NII-3 Power spectral density-802.11  
a(20MHz),5825MHz,Ant1



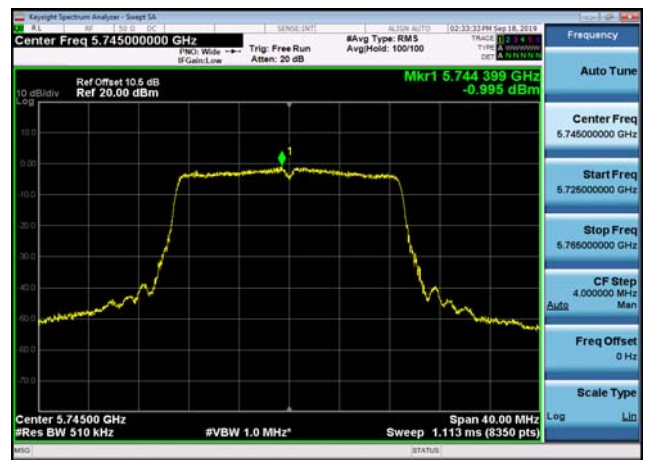
U-NII-3 Power spectral density-802.11  
a(20MHz),5825MHz,Ant2



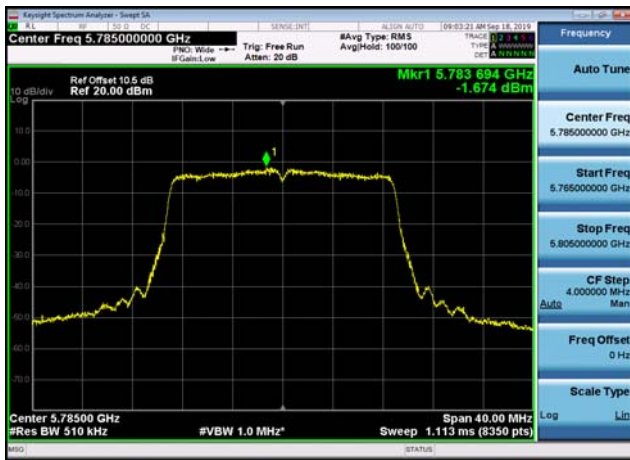
U-NII-3 Power spectral density-802.11  
ac(20MHz),5745MHz,Ant1



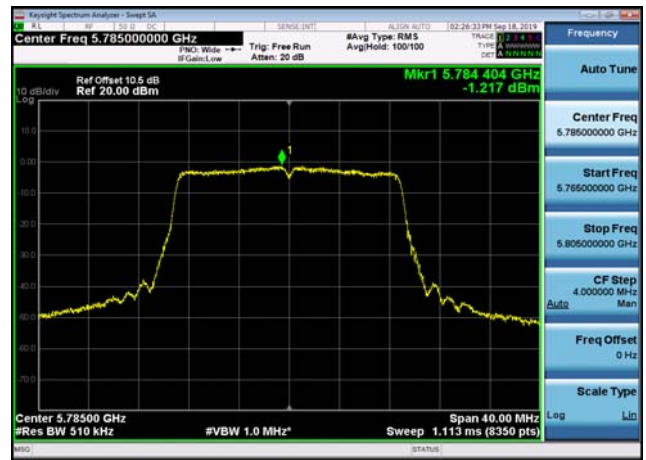
U-NII-3 Power spectral density-802.11  
ac(20MHz),5745MHz,Ant2



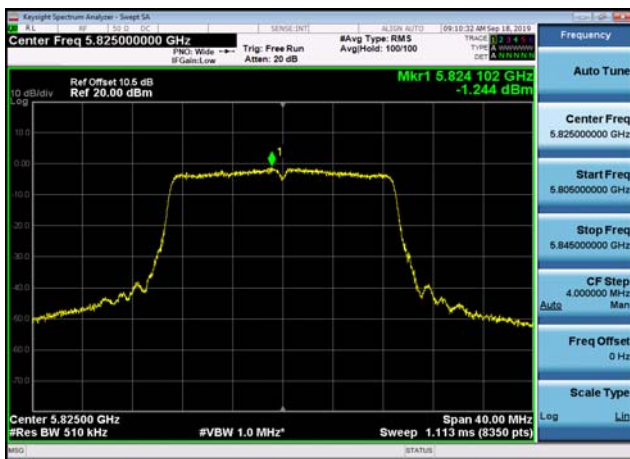
U-NII-3 Power spectral density-802.11  
ac(20MHz),5785MHz,Ant1



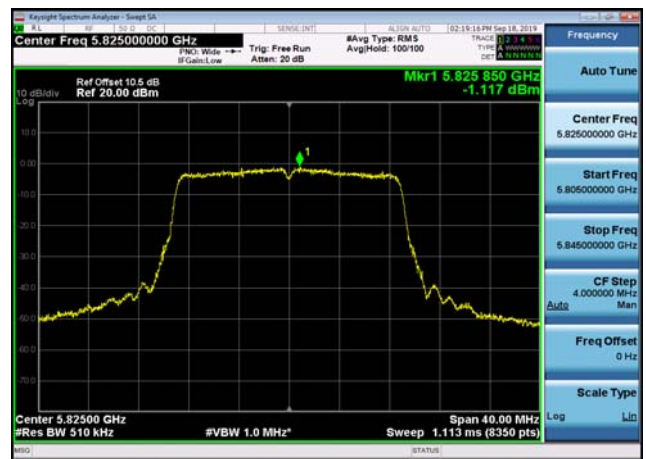
U-NII-3 Power spectral density-802.11  
ac(20MHz),5785MHz,Ant2



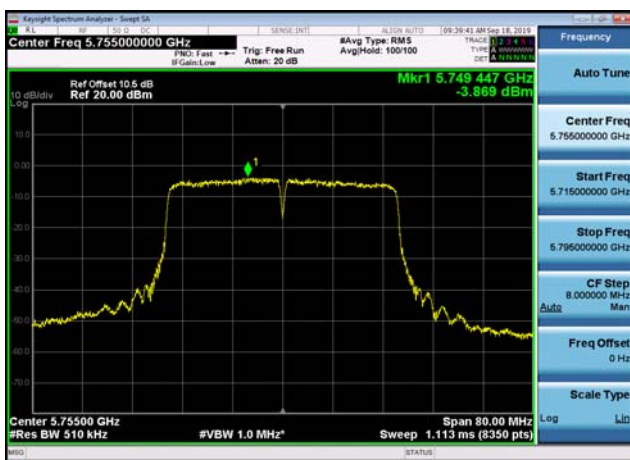
U-NII-3 Power spectral density-802.11  
ac(20MHz),5825MHz,Ant1



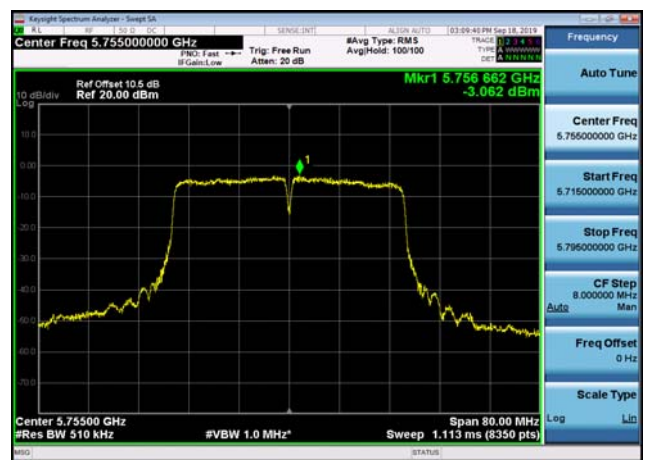
U-NII-3 Power spectral density-802.11  
ac(20MHz),5825MHz,Ant2



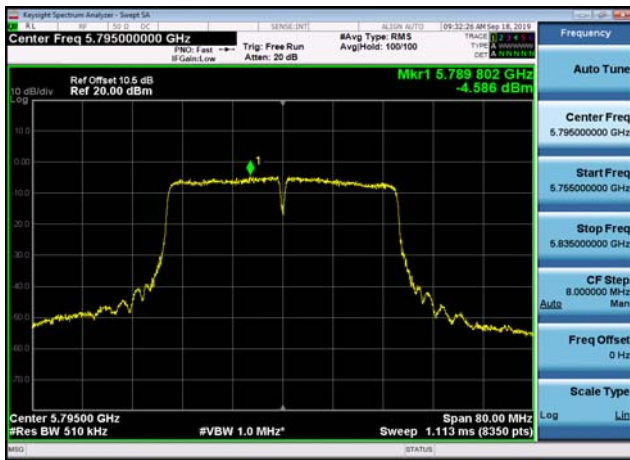
U-NII-3 Power spectral density-802.11  
ac(40MHz),5755MHz,Ant1



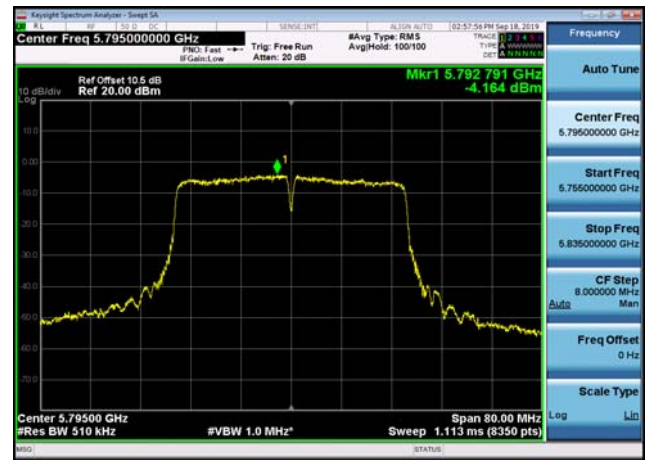
U-NII-3 Power spectral density-802.11  
ac(40MHz),5755MHz,Ant2



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



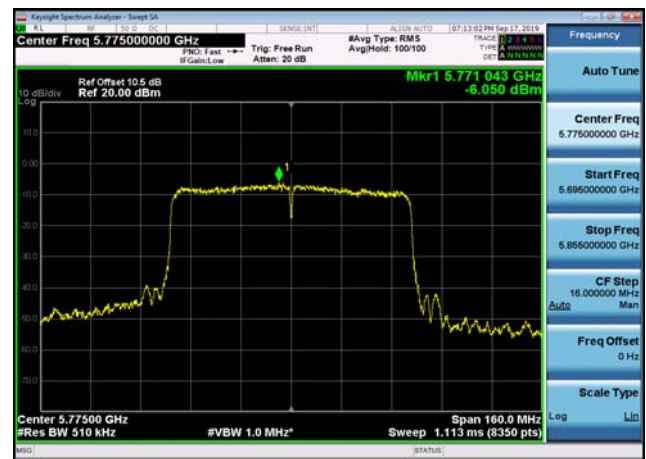
U-NII-3 Power spectral density-802.11  
ac(40MHz),5795MHz,Ant2



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



U-NII-3 Power spectral density-802.11  
ac(80MHz),5775MHz,Ant2





**Emission Bandwidth****Test Result and Data**

U-NII-1 Occupied 26 dB Bandwidth			
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)
802.11n (20MHz)	5180	Ant1	19.80
802.11n (20MHz)	5180	Ant2	19.41
802.11n (20MHz)	5220	Ant1	19.91
802.11n (20MHz)	5220	Ant2	19.62
802.11n (20MHz)	5240	Ant1	19.70
802.11n (20MHz)	5240	Ant2	19.57
802.11n (40MHz)	5190	Ant1	39.76
802.11n (40MHz)	5190	Ant2	39.53
802.11n (40MHz)	5230	Ant1	39.41
802.11n (40MHz)	5230	Ant2	40.14
802.11ac (20MHz)	5180	Ant1	19.95
802.11ac (20MHz)	5180	Ant2	19.80
802.11ac (20MHz)	5220	Ant1	20.02
802.11ac (20MHz)	5220	Ant2	19.65
802.11ac (20MHz)	5240	Ant1	20.03
802.11ac (20MHz)	5240	Ant2	19.85
802.11ac (40MHz)	5190	Ant1	39.65
802.11ac (40MHz)	5190	Ant2	39.51
802.11ac (40MHz)	5230	Ant1	39.59
802.11ac (40MHz)	5230	Ant2	39.97
802.11ac (80MHz)	5210	Ant1	81.33
802.11ac (80MHz)	5210	Ant2	81.52
802.11a (20MHz)	5180	Ant1	19.53
802.11a (20MHz)	5180	Ant2	19.50
802.11a (20MHz)	5220	Ant1	19.40
802.11a (20MHz)	5220	Ant2	19.52
802.11a (20MHz)	5240	Ant1	19.41
802.11a (20MHz)	5240	Ant2	19.25

Report only



U-NII-3 Occupied 6 dB Bandwidth					
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Min Limit (KHz)	Result
802.11n (20MHz)	5745	Ant1	16.93	500	Pass
802.11n (20MHz)	5745	Ant2	15.07		Pass
802.11n (20MHz)	5785	Ant1	15.93		Pass
802.11n (20MHz)	5785	Ant2	16.53		Pass
802.11n (20MHz)	5825	Ant1	16.92		Pass
802.11n (20MHz)	5825	Ant2	15.38		Pass
802.11n (40MHz)	5755	Ant1	35.24		Pass
802.11n (40MHz)	5755	Ant2	35.21		Pass
802.11n (40MHz)	5795	Ant1	35.17		Pass
802.11n (40MHz)	5795	Ant2	35.26		Pass
802.11ac (20MHz)	5745	Ant1	16.10		Pass
802.11ac (20MHz)	5745	Ant2	15.09		Pass
802.11ac (20MHz)	5785	Ant1	15.12		Pass
802.11ac (20MHz)	5785	Ant2	15.50		Pass
802.11ac (20MHz)	5825	Ant1	16.93		Pass
802.11ac (20MHz)	5825	Ant2	17.08		Pass
802.11ac (40MHz)	5755	Ant1	35.23		Pass
802.11ac (40MHz)	5755	Ant2	35.20		Pass
802.11ac (40MHz)	5795	Ant1	34.53		Pass
802.11ac (40MHz)	5795	Ant2	35.19		Pass
802.11ac (80MHz)	5775	Ant1	75.25		Pass
802.11ac (80MHz)	5775	Ant2	75.25		Pass
802.11a (20MHz)	5745	Ant1	16.31		Pass
802.11a (20MHz)	5745	Ant2	16.32		Pass
802.11a (20MHz)	5785	Ant1	15.47		Pass
802.11a (20MHz)	5785	Ant2	16.32		Pass
802.11a (20MHz)	5825	Ant1	15.29		Pass
802.11a (20MHz)	5825	Ant2	15.52		Pass

### Test Plots

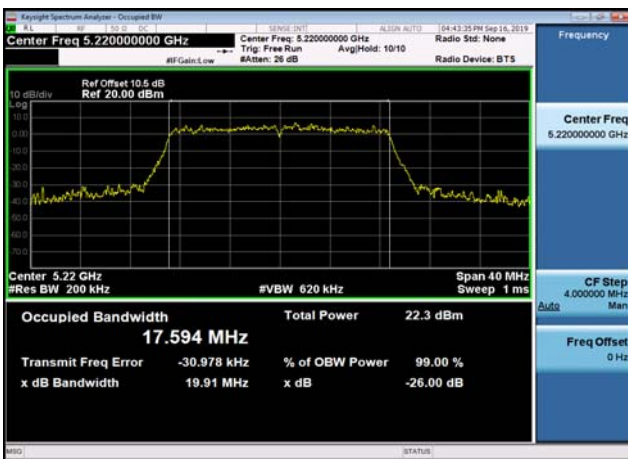
U-NII-1 26dB Bandwidth-802.11n(20MHz)  
,5180MHz,Ant1



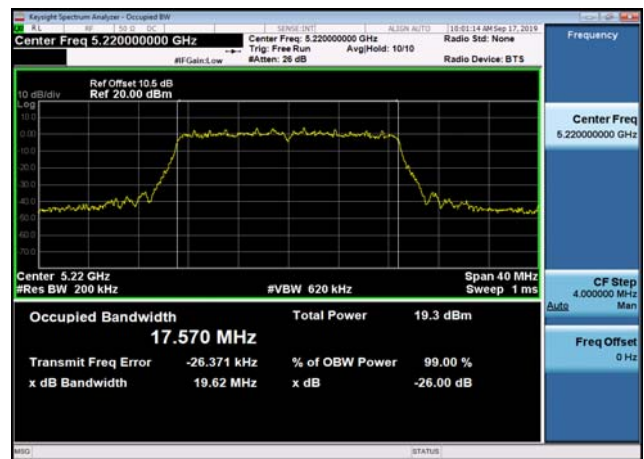
U-NII-1 26dB Bandwidth-802.11n(20MHz)  
,5180MHz,Ant2



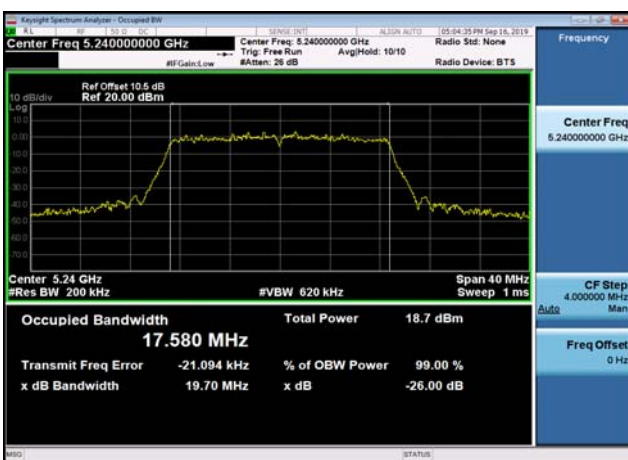
U-NII-1 26dB Bandwidth-802.11n(20MHz)  
,5220MHz,Ant1



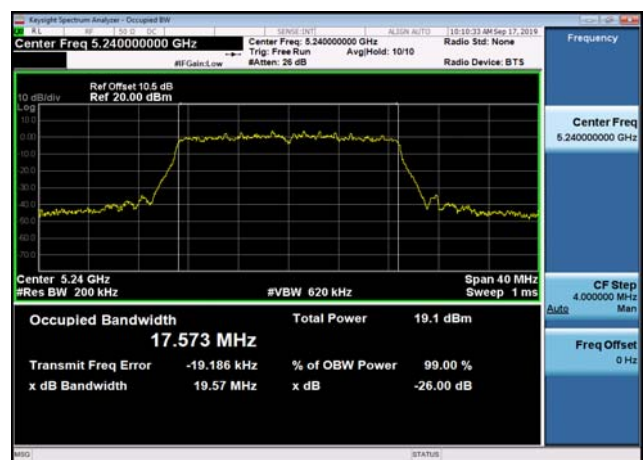
U-NII-1 26dB Bandwidth-802.11n(20MHz)  
,5220MHz,Ant2



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



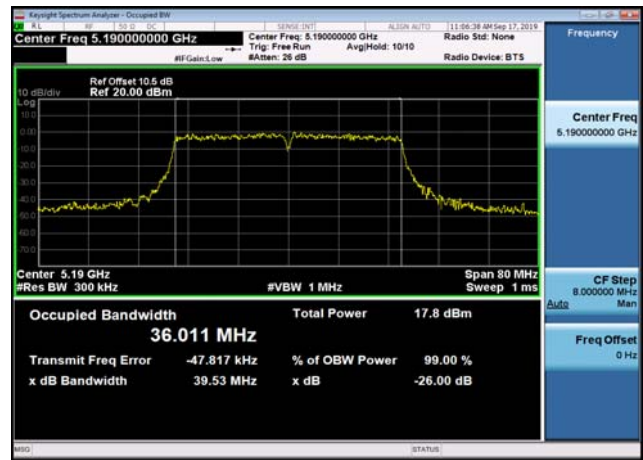
U-NII-1 26dB Bandwidth-802.11n(20MHz)  
,5240MHz,Ant2



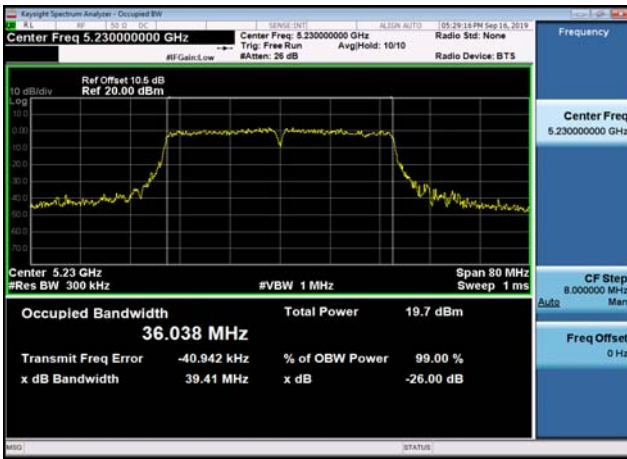
U-NII-1 26dB Bandwidth-802.11n(40MHz)  
,5190MHz,Ant1



U-NII-1 26dB Bandwidth-802.11n(40MHz)  
,5190MHz,Ant2



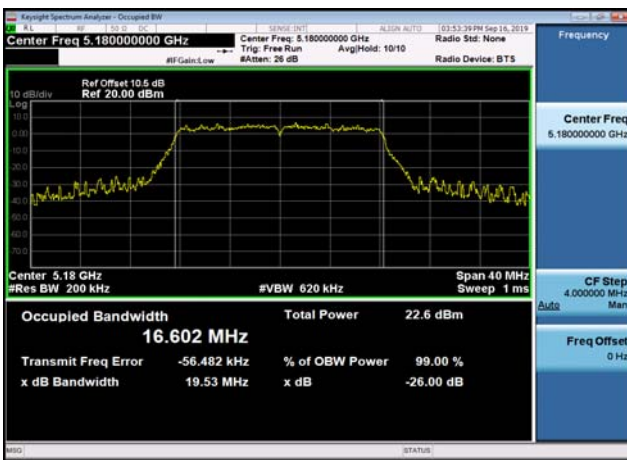
U-NII-1 26dB Bandwidth-802.11n(40MHz)  
,5230MHz,Ant1



U-NII-1 26dB Bandwidth-802.11n(40MHz)  
,5230MHz,Ant2



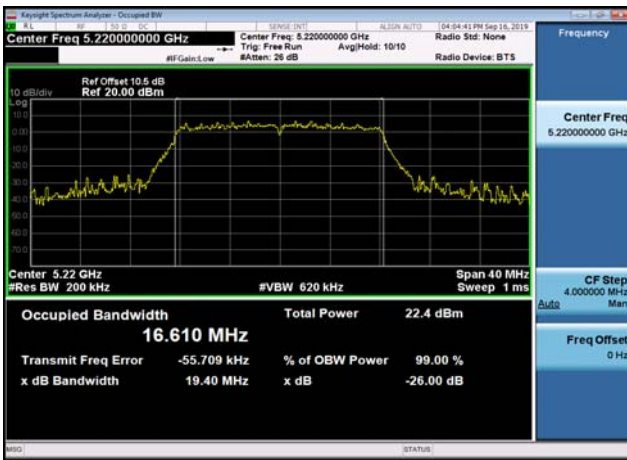
U-NII-1 26dB Bandwidth-802.11a(20MHz)  
,5180MHz,Ant1



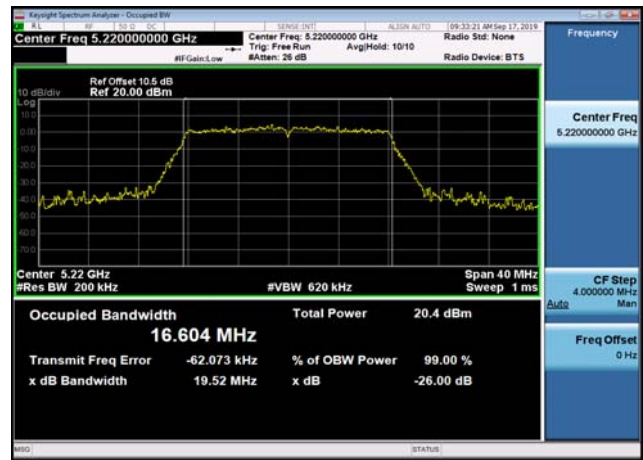
U-NII-1 26dB Bandwidth-802.11a(20MHz)  
,5180MHz,Ant2



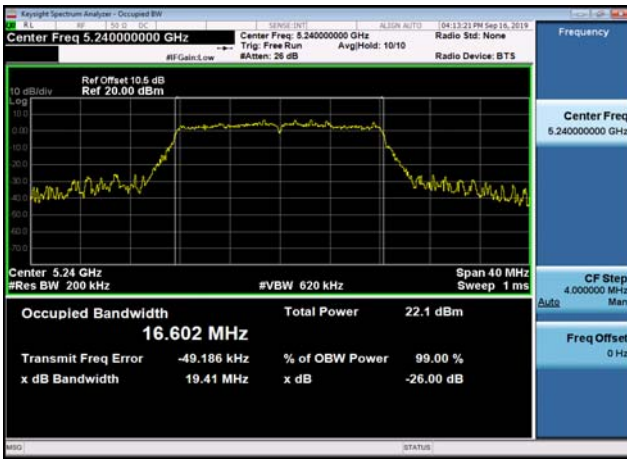
U-NII-1 26dB Bandwidth-802.11a(20MHz)  
,5220MHz,Ant1



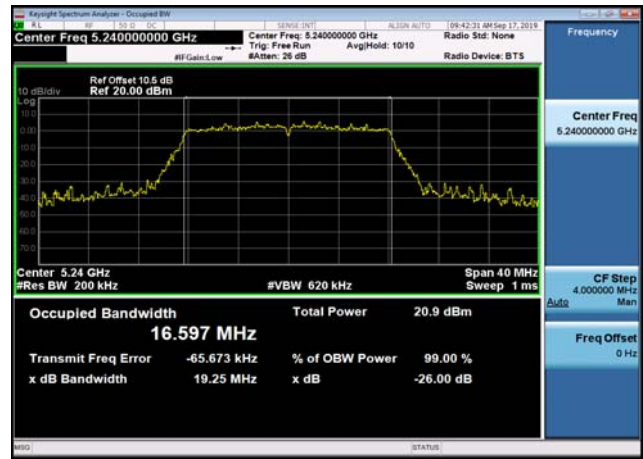
U-NII-1 26dB Bandwidth-802.11a(20MHz)  
,5220MHz,Ant2



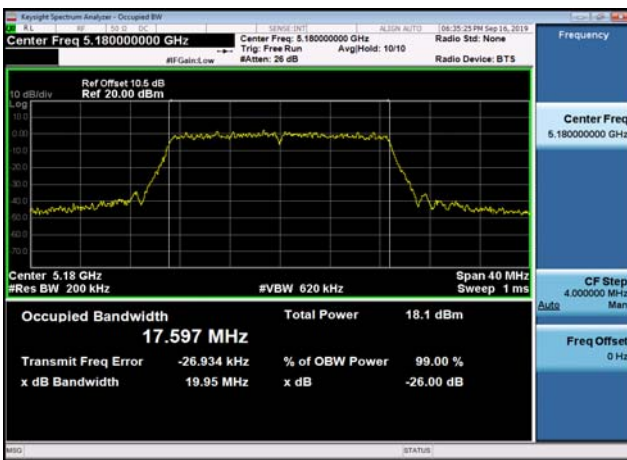
U-NII-1 26dB Bandwidth-802.11a(20MHz)  
,5240MHz,Ant1



U-NII-1 26dB Bandwidth-802.11a(20MHz)  
,5240MHz,Ant2



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



U-NII-1 26dB Bandwidth-802.11ac(20MHz)  
,5180MHz,Ant2



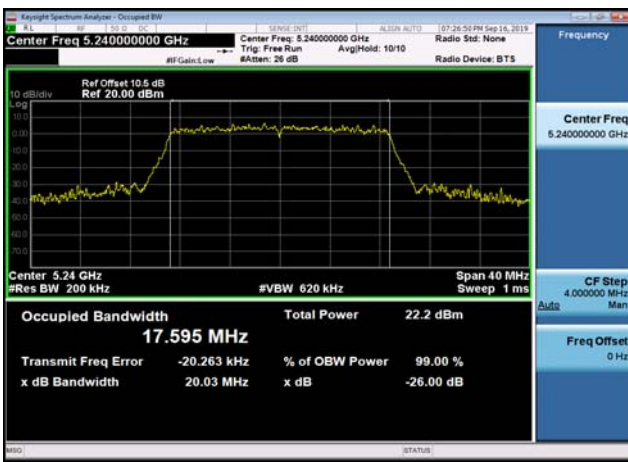
U-NII-1 26dB Bandwidth-802.11ac(20MHz),5220MHz,Ant1



U-NII-1 26dB Bandwidth-802.11ac(20MHz),5220MHz,Ant2



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



U-NII-1 26dB Bandwidth-802.11ac(20MHz),5240MHz,Ant2



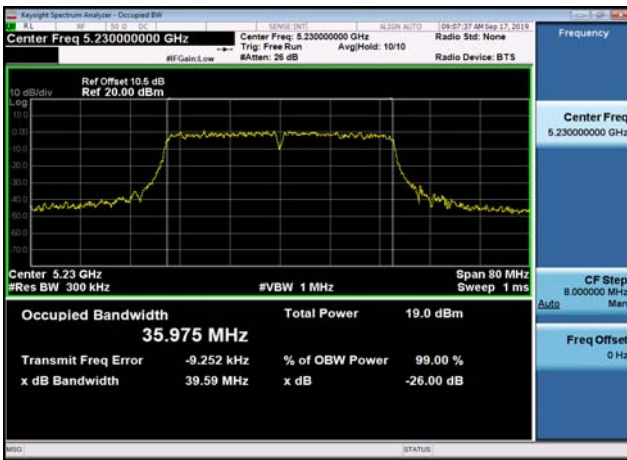
U-NII-1 26dB Bandwidth-802.11ac(40MHz),5190MHz,Ant1



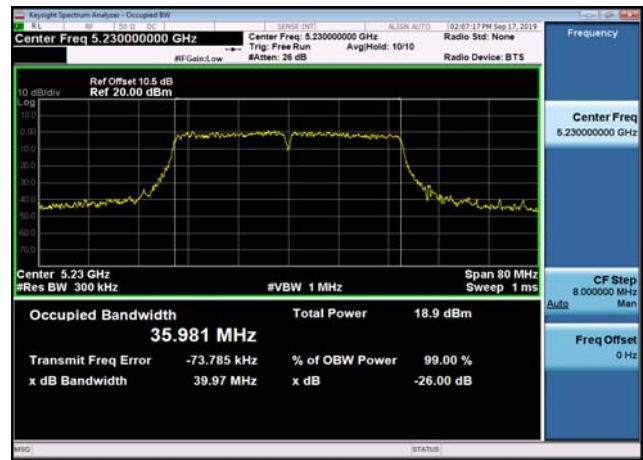
U-NII-1 26dB Bandwidth-802.11ac(40MHz),5190MHz,Ant2



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



U-NII-1 26dB Bandwidth-802.11ac(40MHz),5230MHz,Ant2



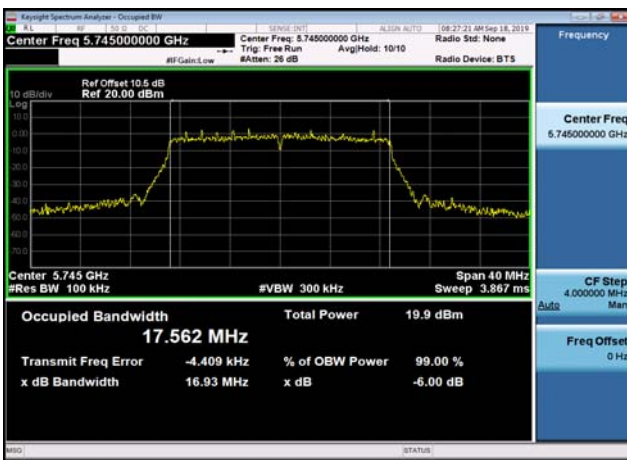
U-NII-1 26dB Bandwidth-802.11ac(80MHz),5210MHz,Ant1



U-NII-1 26dB Bandwidth-802.11ac(80MHz),5210MHz,Ant2



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



U-NII-3 6dB Bandwidth-802.11n(20MHz),5745MHz,Ant2



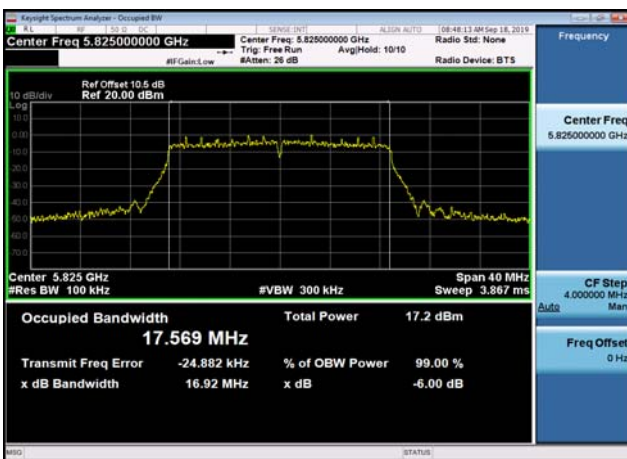
U-NII-3 6dB Bandwidth-802.11n(20MHz)  
,5785MHz,Ant1



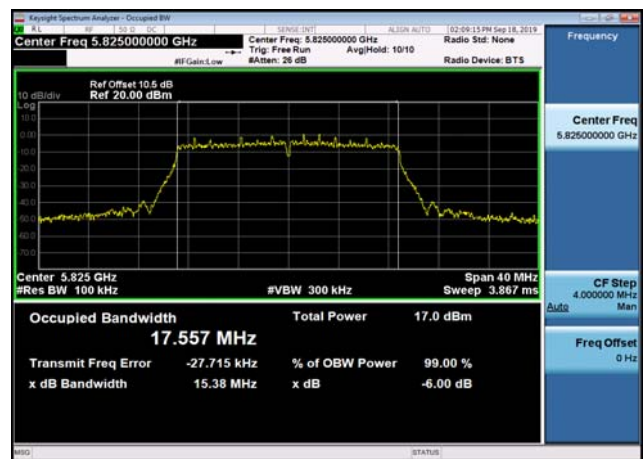
U-NII-3 6dB Bandwidth-802.11n(20MHz)  
,5785MHz,Ant2



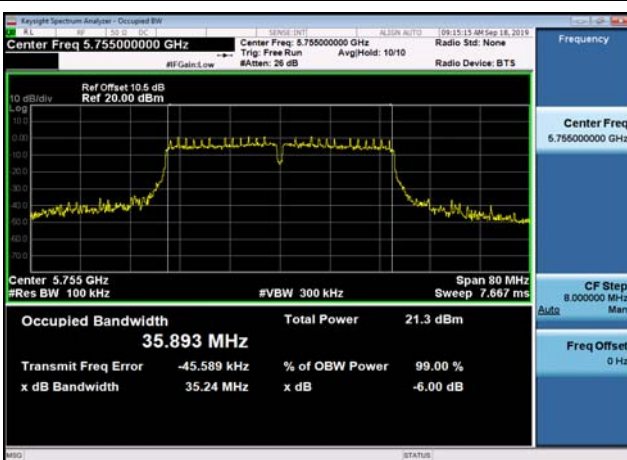
U-NII-3 6dB Bandwidth-802.11n(20MHz)  
,5825MHz,Ant1



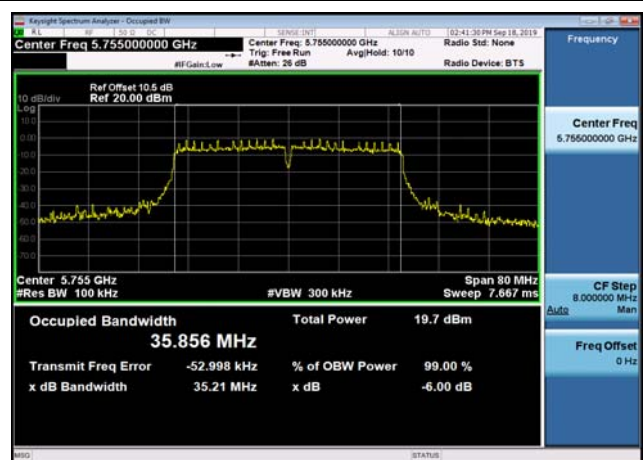
U-NII-3 6dB Bandwidth-802.11n(20MHz)  
,5825MHz,Ant2



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

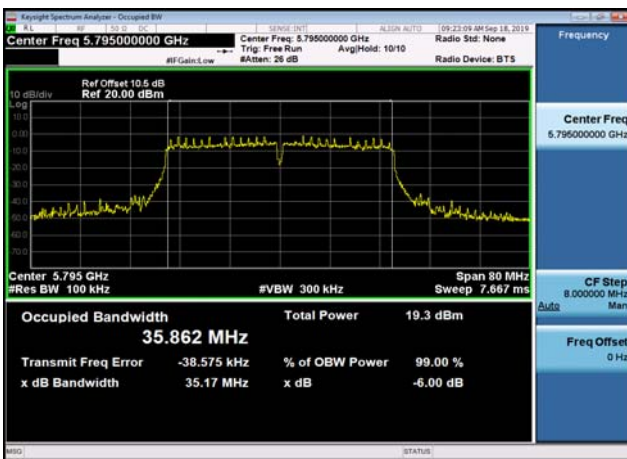


U-NII-3 6dB Bandwidth-802.11n(40MHz)  
,5755MHz,Ant2

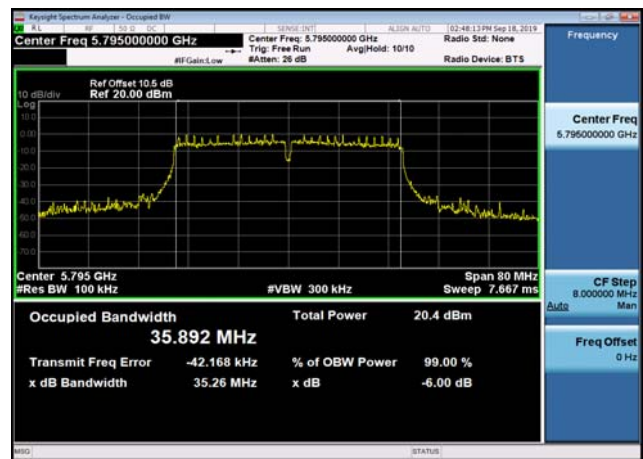




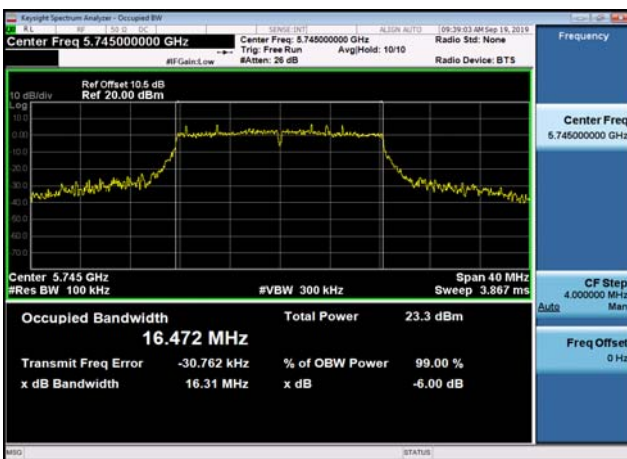
U-NII-3 6dB Bandwidth-802.11n(40MHz)  
,5795MHz,Ant1



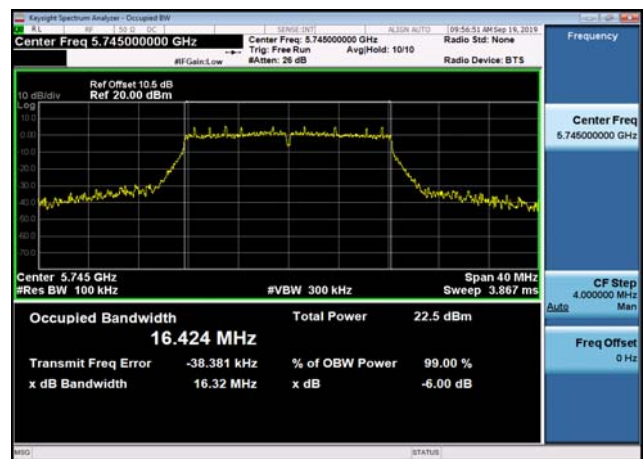
U-NII-3 6dB Bandwidth-802.11n(40MHz)  
,5795MHz,Ant2



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



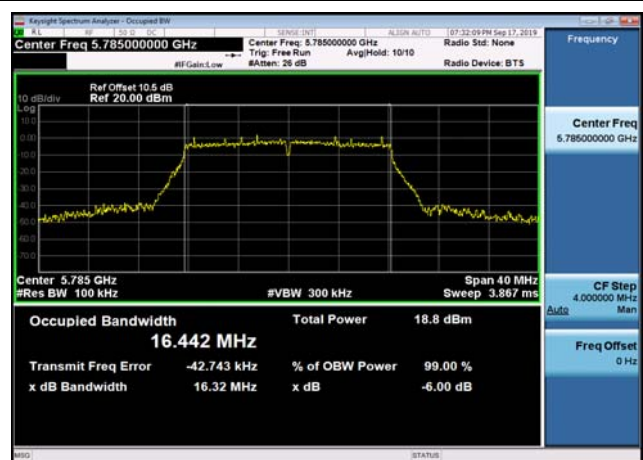
U-NII-3 6dB Bandwidth-802.11a(20MHz)  
,5745MHz,Ant2



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



U-NII-3 6dB Bandwidth-802.11a(20MHz)  
,5785MHz,Ant2

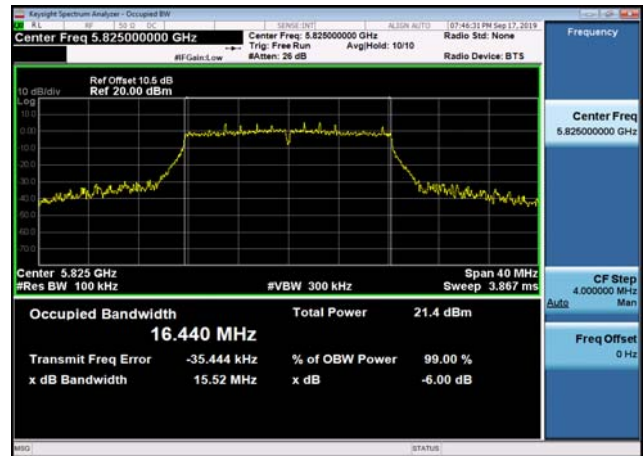




U-NII-3 6dB Bandwidth-802.11a(20MHz)  
,5825MHz,Ant1



U-NII-3 6dB Bandwidth-802.11a(20MHz)  
,5825MHz,Ant2



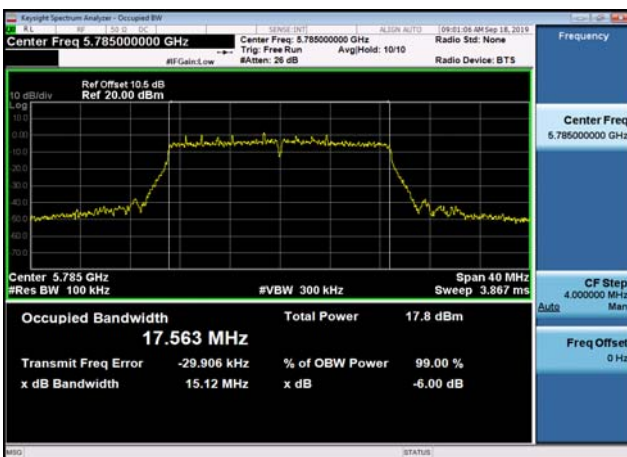
U-NII-3 6dB Bandwidth-802.11ac(20MHz)  
,5745MHz,Ant1



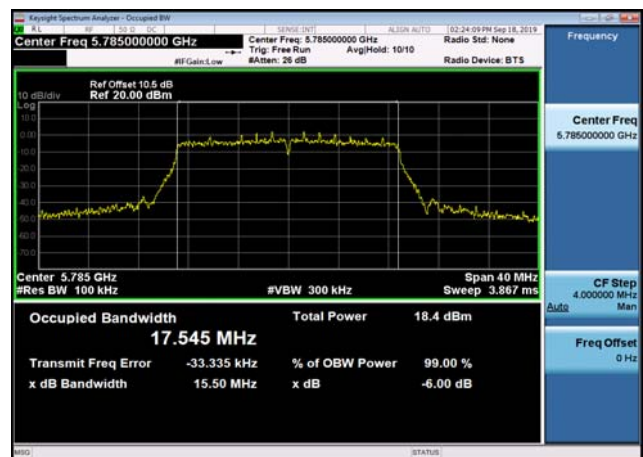
U-NII-3 6dB Bandwidth-802.11ac(20MHz)  
,5745MHz,Ant2



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



U-NII-3 6dB Bandwidth-802.11ac(20MHz)  
,5785MHz,Ant2



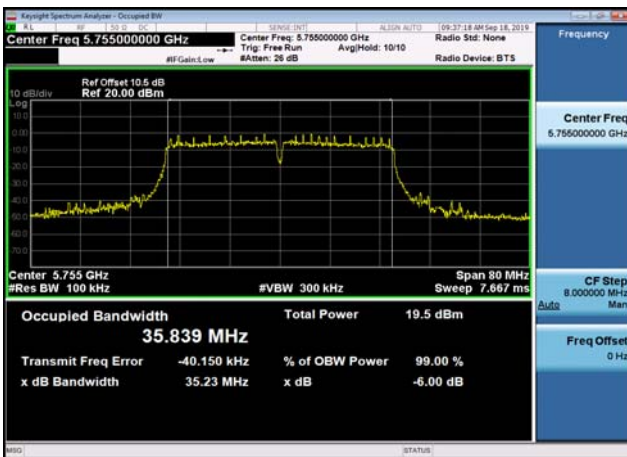
U-NII-3 6dB Bandwidth-802.11ac(20MHz)  
,5825MHz,Ant1



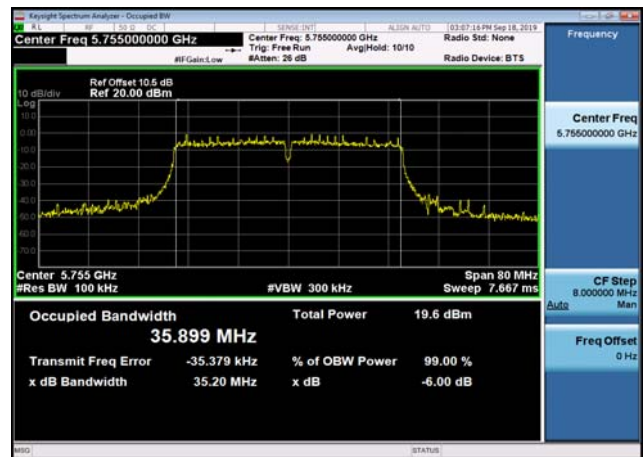
U-NII-3 6dB Bandwidth-802.11ac(20MHz)  
,5825MHz,Ant2



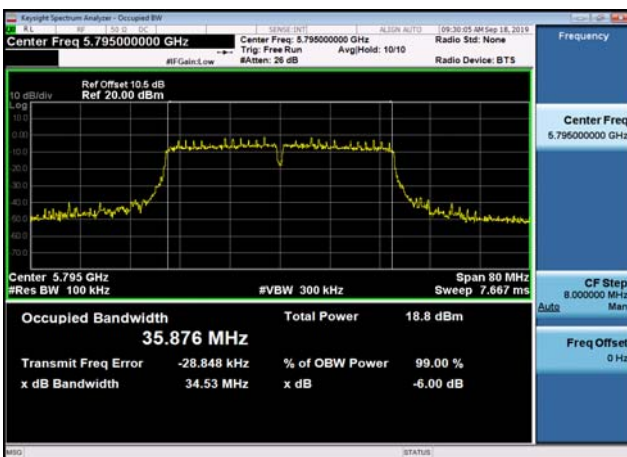
U-NII-3 6dB Bandwidth-802.11ac(40MHz)  
,5755MHz,Ant1



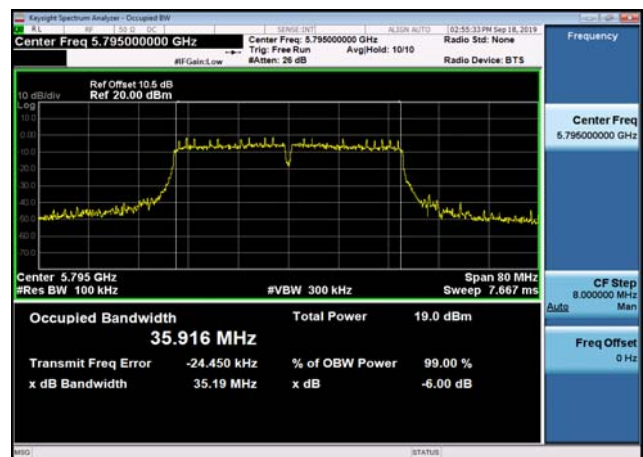
U-NII-3 6dB Bandwidth-802.11ac(40MHz)  
,5755MHz,Ant2



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

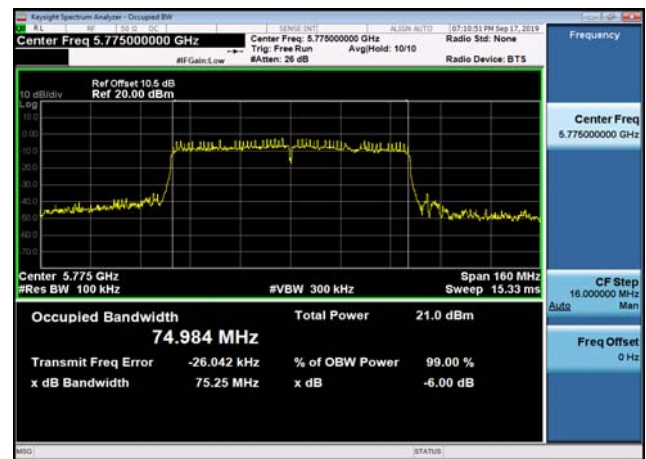
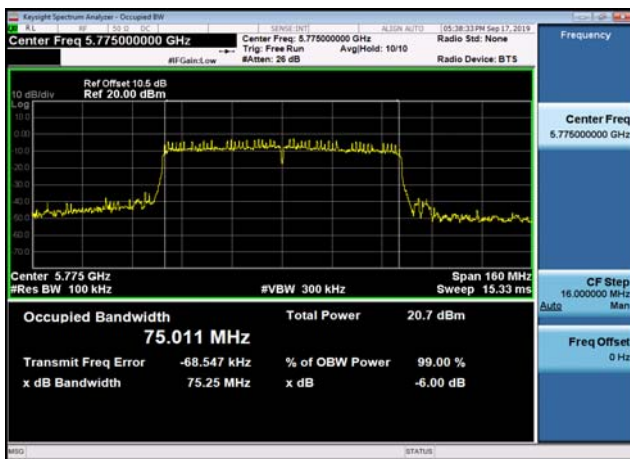


U-NII-3 6dB Bandwidth-802.11ac(40MHz)  
,5795MHz,Ant2



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

U-NII-3 6dB Bandwidth-802.11ac(80MHz)  
,5775MHz,Ant2



**Frequency Stability**

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	5188.826	5179.998	-0.400	Pass
802.11n (20MHz)	5180	Ant2	5171.133	5188.843	5179.988	-2.330	Pass
802.11n (20MHz)	5220	Ant1	5211.098	5228.835	5219.966	-6.470	Pass
802.11n (20MHz)	5220	Ant2	5211.128	5228.849	5219.989	-2.160	Pass
802.11n (20MHz)	5240	Ant1	5231.103	5248.836	5239.970	-5.800	Pass
802.11n (20MHz)	5240	Ant2	5231.151	5248.833	5239.992	-1.590	Pass
802.11n (40MHz)	5190	Ant1	5171.787	5208.167	5189.977	-4.480	Pass
802.11n (40MHz)	5190	Ant2	5171.795	5208.179	5189.987	-2.600	Pass
802.11n (40MHz)	5230	Ant1	5211.784	5248.189	5229.987	-2.580	Pass
802.11n (40MHz)	5230	Ant2	5211.766	5248.179	5229.972	-5.310	Pass
802.11ac (20MHz)	5180	Ant1	5171.080	5188.837	5179.958	-8.040	Pass
802.11ac (20MHz)	5180	Ant2	5171.176	5188.813	5179.995	-1.050	Pass
802.11ac (20MHz)	5220	Ant1	5211.173	5228.789	5219.981	-3.590	Pass
802.11ac (20MHz)	5220	Ant2	5211.092	5228.833	5219.963	-7.180	Pass
802.11ac (20MHz)	5240	Ant1	5231.170	5248.808	5239.989	-2.070	Pass
802.11ac (20MHz)	5240	Ant2	5231.098	5248.817	5239.957	-8.190	Pass
802.11ac (40MHz)	5190	Ant1	5171.801	5208.239	5190.020	3.760	Pass
802.11ac (40MHz)	5190	Ant2	5171.811	5208.164	5189.987	-2.460	Pass
802.11ac	5230	Ant1	5211.810	5248.150	5229.980	-3.870	Pass



(40MHz)							
802.11ac (40MHz)	5230	Ant2	5211.775	5248.186	5229.981	-3.730	Pass
802.11ac (80MHz)	5210	Ant1	5172.227	5247.770	5209.998	-0.320	Pass
802.11ac (80MHz)	5210	Ant2	5172.360	5247.567	5209.963	-7.040	Pass
802.11a (20MHz)	5180	Ant1	5171.698	5188.268	5179.983	-3.300	Pass
802.11a (20MHz)	5180	Ant2	5171.778	5188.248	5180.013	2.410	Pass
802.11a (20MHz)	5220	Ant1	5211.699	5228.264	5219.982	-3.510	Pass
802.11a (20MHz)	5220	Ant2	5211.705	5228.252	5219.978	-4.150	Pass
802.11a (20MHz)	5240	Ant1	5231.693	5248.266	5239.980	-3.900	Pass
802.11a (20MHz)	5240	Ant2	5231.713	5248.248	5239.981	-3.660	Pass



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	5736.084	5753.843	5744.963	-6.380	Pass
802.11n (20MHz)	5745	Ant2	5736.183	5753.786	5744.985	-2.680	Pass
802.11n (20MHz)	5785	Ant1	5776.130	5793.821	5784.975	-4.250	Pass
802.11n (20MHz)	5785	Ant2	5776.171	5793.790	5784.980	-3.390	Pass
802.11n (20MHz)	5825	Ant1	5816.077	5833.881	5824.979	-3.650	Pass
802.11n (20MHz)	5825	Ant2	5816.177	5833.803	5824.990	-1.790	Pass
802.11n (40MHz)	5755	Ant1	5736.750	5773.152	5754.951	-8.600	Pass
802.11n (40MHz)	5755	Ant2	5736.772	5773.155	5754.963	-6.390	Pass
802.11n (40MHz)	5795	Ant1	5776.747	5813.171	5794.959	-7.120	Pass
802.11n (40MHz)	5795	Ant2	5776.775	5813.159	5794.967	-5.690	Pass
802.11ac (20MHz)	5745	Ant1	5736.173	5753.800	5744.986	-2.390	Pass
802.11ac (20MHz)	5745	Ant2	5736.171	5753.793	5744.982	-3.120	Pass
802.11ac (20MHz)	5785	Ant1	5776.095	5793.808	5784.951	-8.430	Pass
802.11ac (20MHz)	5785	Ant2	5776.174	5793.783	5784.978	-3.750	Pass
802.11ac (20MHz)	5825	Ant1	5816.083	5833.824	5824.954	-7.940	Pass
802.11ac (20MHz)	5825	Ant2	5816.083	5833.811	5824.947	-9.160	Pass
802.11ac (40MHz)	5755	Ant1	5736.805	5773.137	5754.971	-5.080	Pass
802.11ac (40MHz)	5755	Ant2	5736.748	5773.153	5754.951	-8.600	Pass
802.11ac (40MHz)	5795	Ant1	5776.805	5813.152	5794.978	-3.750	Pass



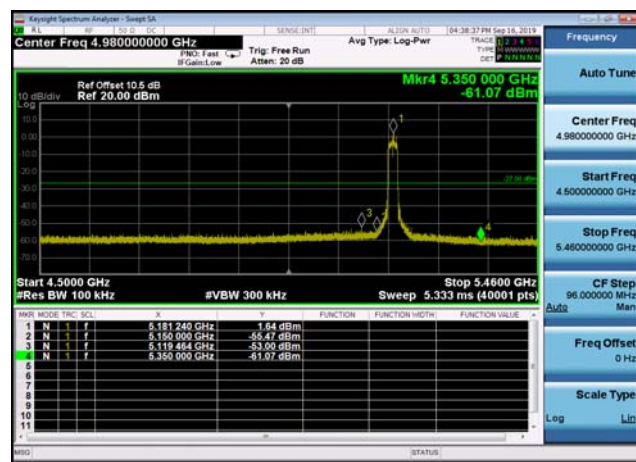
802.11ac (40MHz)	5795	Ant2	5776.802	5813.147	5794.975	-4.400	Pass
802.11ac (80MHz)	5775	Ant1	5737.207	5812.543	5774.875	-21.650	Failed
802.11ac (80MHz)	5775	Ant2	5737.207	5812.587	5774.897	-17.890	Pass
802.11a (20MHz)	5745	Ant1	5736.697	5753.263	5744.980	-3.480	Pass
802.11a (20MHz)	5745	Ant2	5736.707	5753.243	5744.975	-4.350	Pass
802.11a (20MHz)	5785	Ant1	5776.696	5793.269	5784.983	-3.030	Pass
802.11a (20MHz)	5785	Ant2	5776.694	5793.271	5784.983	-3.030	Pass
802.11a (20MHz)	5825	Ant1	5816.687	5833.272	5824.979	-3.580	Pass
802.11a (20MHz)	5825	Ant2	5816.706	5833.258	5824.982	-3.150	Pass

Note: The worst data reported only.

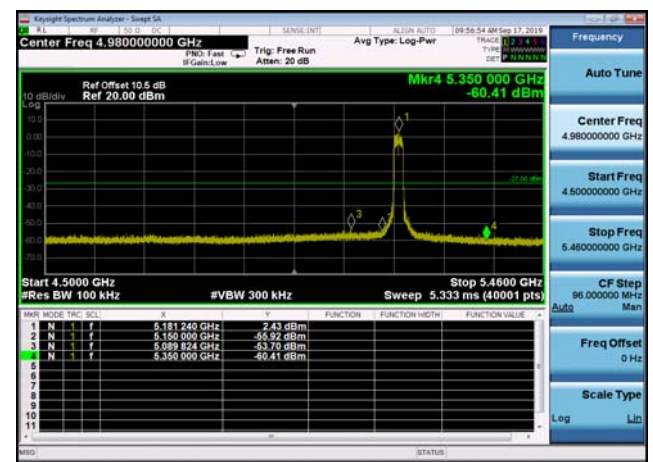


### Bandedge and Spurious emission

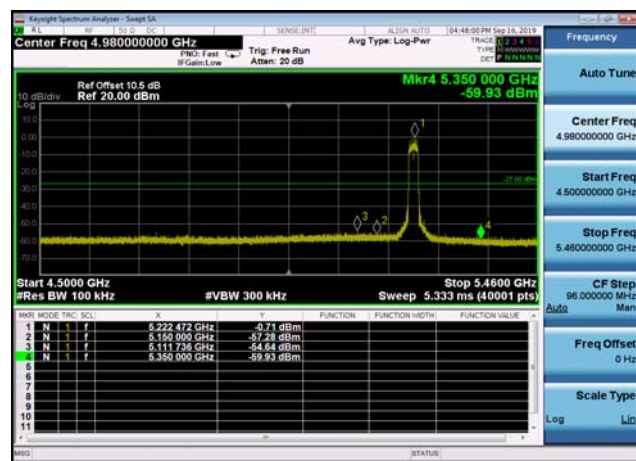
U-NII-1 ,Plot 1,Band Edge-802.11n(20M Hz),5180MHz,Ant1



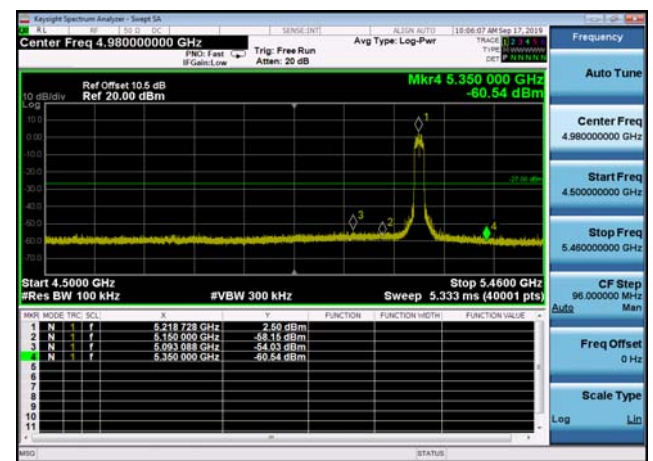
U-NII-1 ,Plot 1,Band Edge-802.11n(20M Hz),5180MHz,Ant2



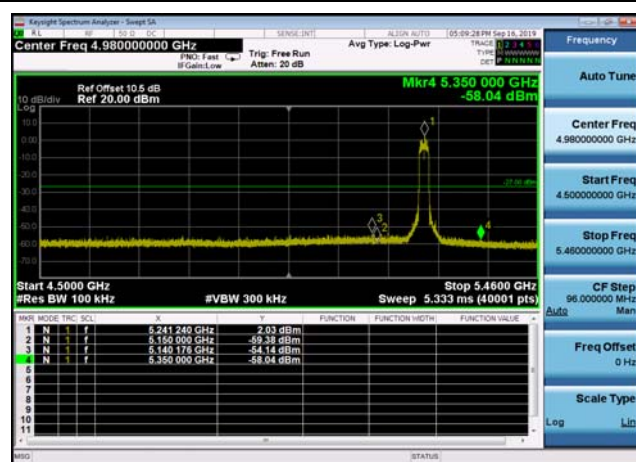
U-NII-1 ,Plot 1,Band Edge-802.11n(20M Hz),5220MHz,Ant1



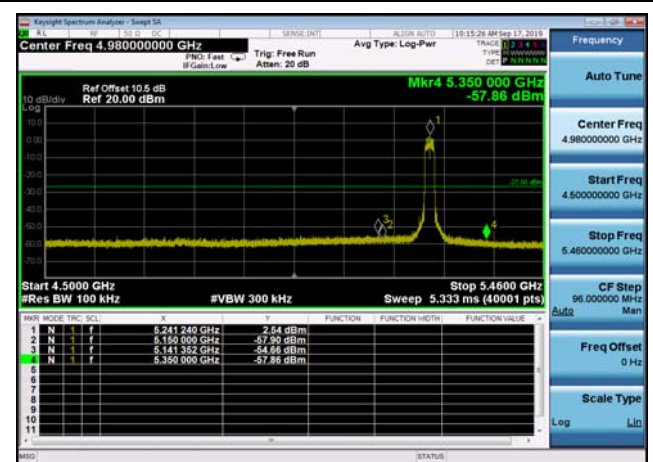
U-NII-1 ,Plot 1,Band Edge-802.11n(20M Hz),5220MHz,Ant2



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



U-NII-1 ,Plot 1,Band Edge-802.11n(20M Hz),5240MHz,Ant2



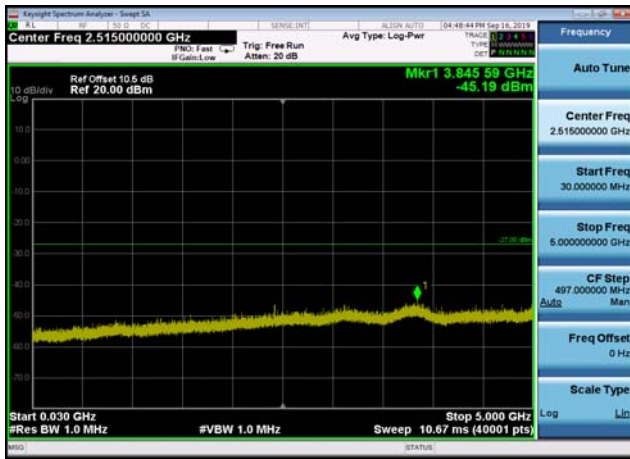
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n  
(20MHz),5180MHz,Ant1



U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n  
(20MHz),5180MHz,Ant2



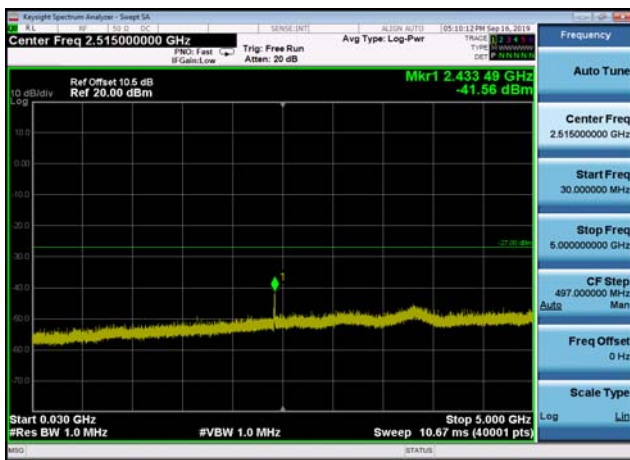
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n  
(20MHz),5220MHz,Ant1



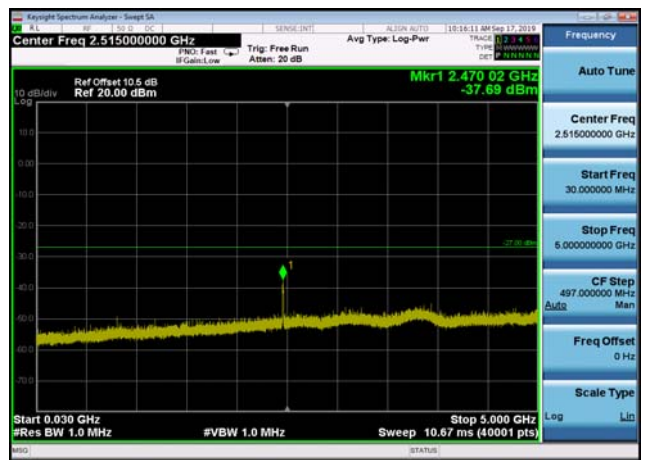
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n  
(20MHz),5220MHz,Ant2



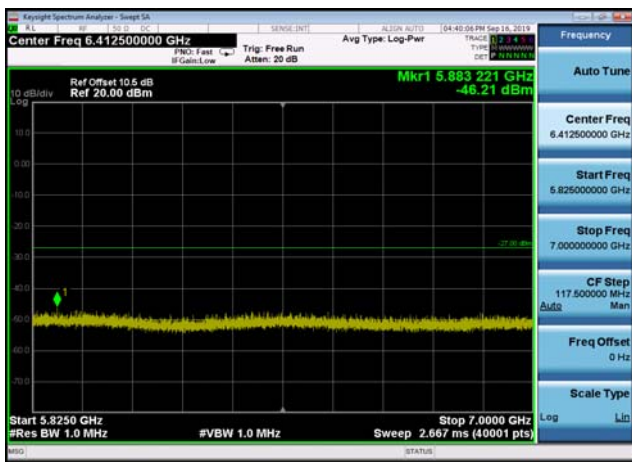
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n  
(20MHz),5240MHz,Ant1



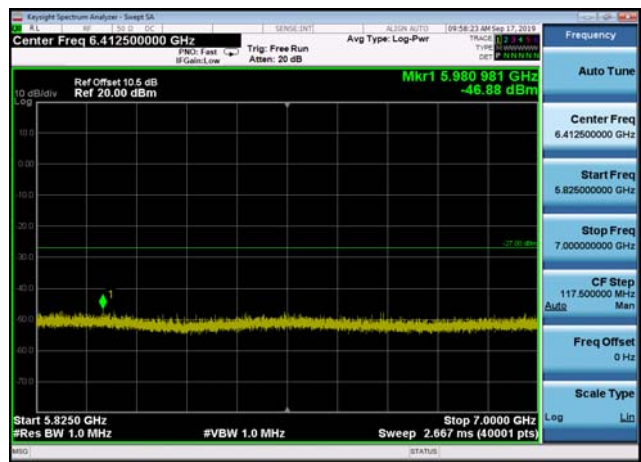
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n  
(20MHz),5240MHz,Ant2



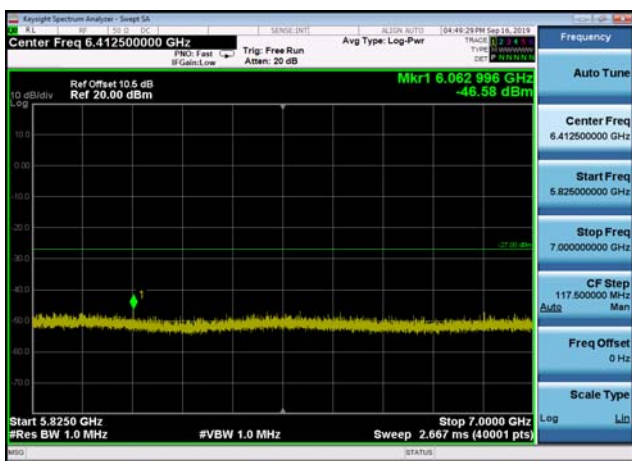
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(20MHz),5180MHz,Ant1



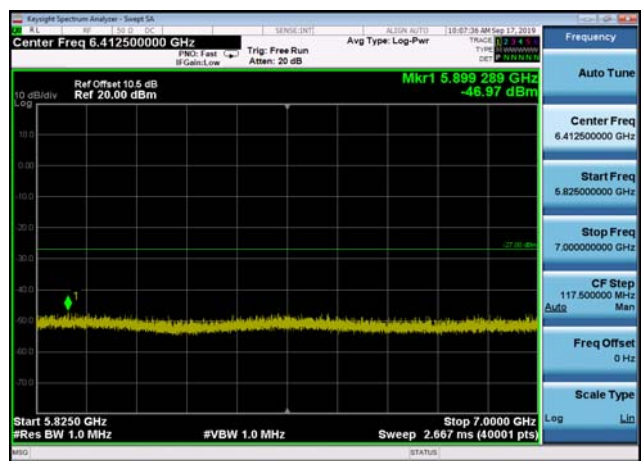
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(20MHz),5180MHz,Ant2



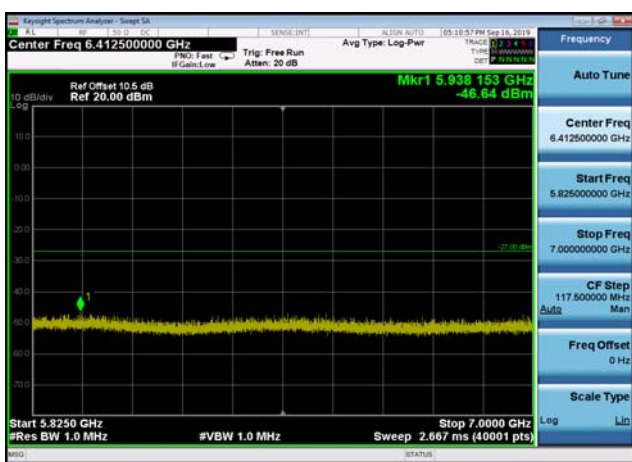
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(20MHz),5220MHz,Ant1



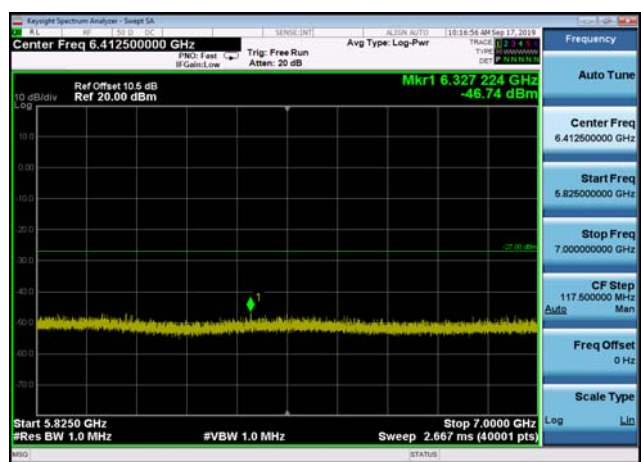
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(20MHz),5220MHz,Ant2



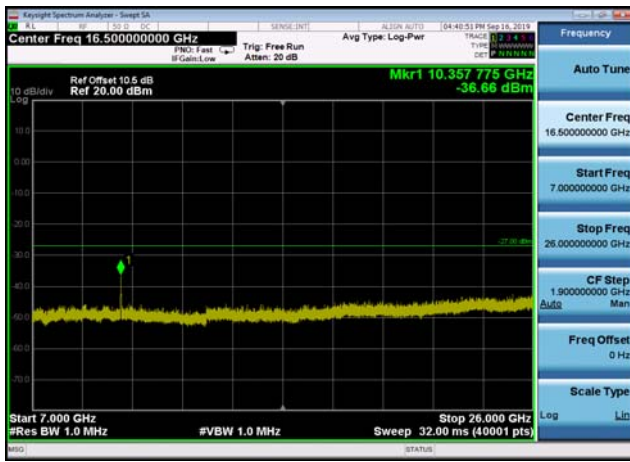
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(20MHz),5240MHz,Ant1



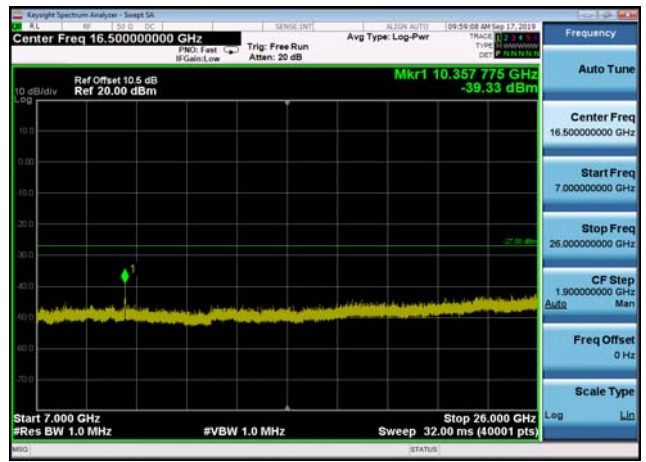
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(20MHz),5240MHz,Ant2



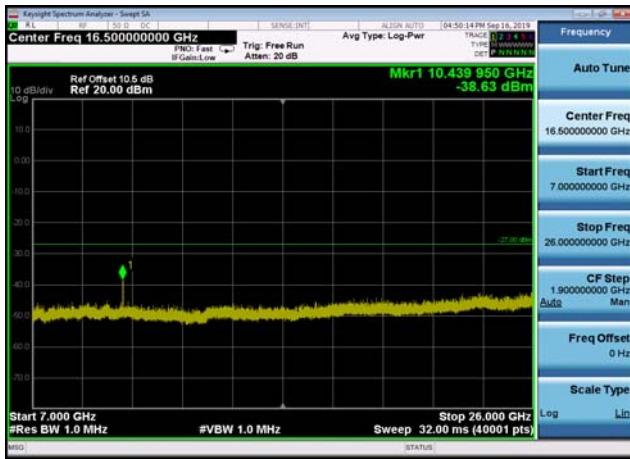
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(20MHz),5180MHz,Ant1



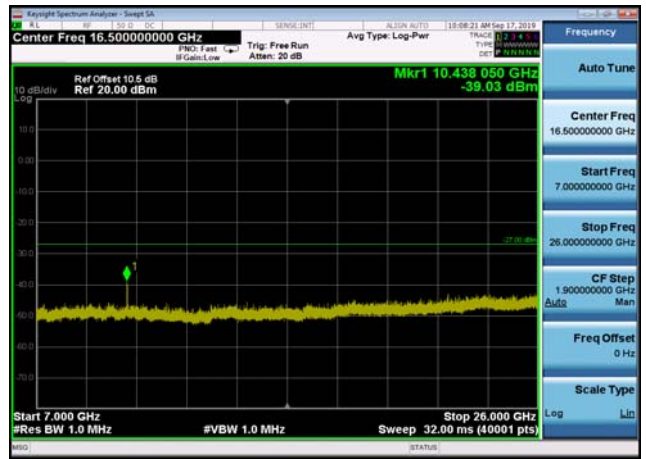
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(20MHz),5180MHz,Ant2



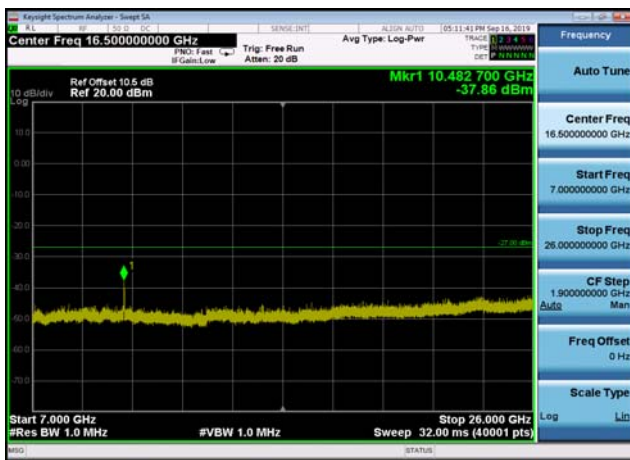
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(20MHz),5220MHz,Ant1



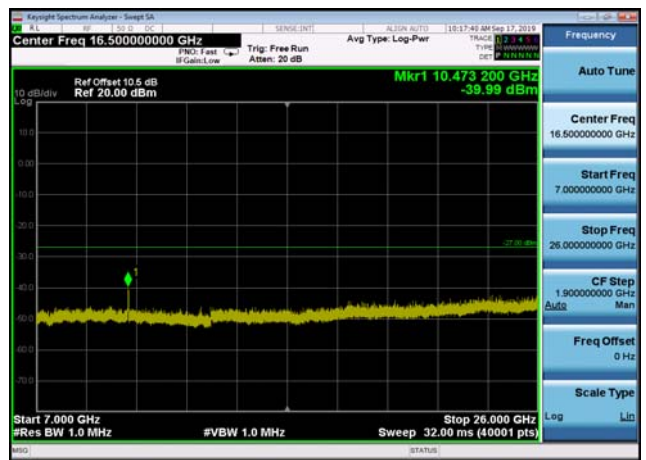
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(20MHz),5220MHz,Ant2



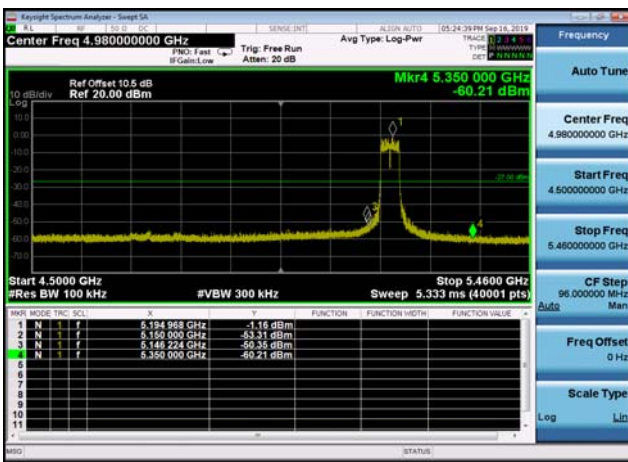
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(20MHz),5240MHz,Ant1



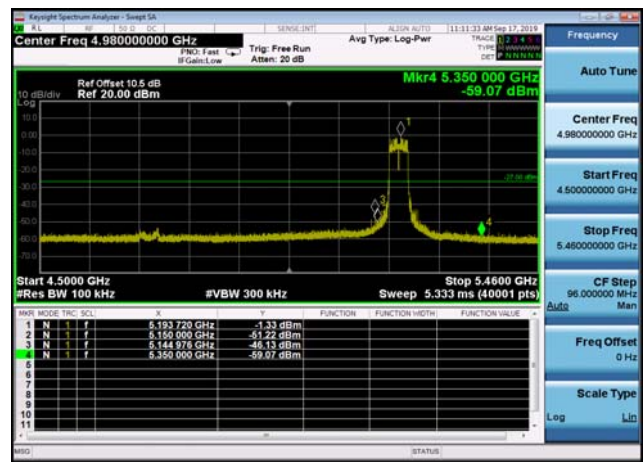
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(20MHz),5240MHz,Ant2



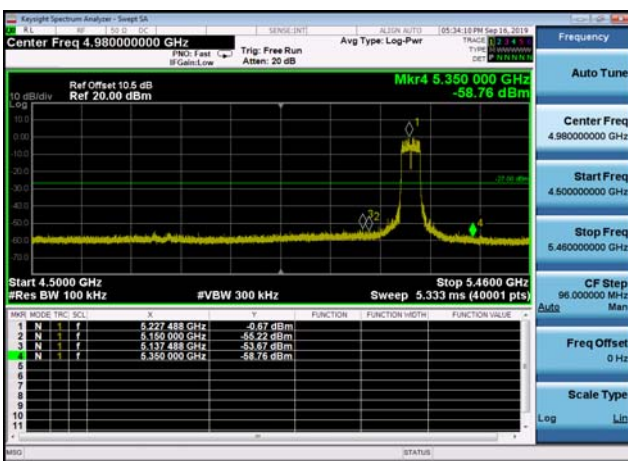
U-NII-1 ,Plot 1,Band Edge-802.11n(40M Hz),5190MHz,Ant1



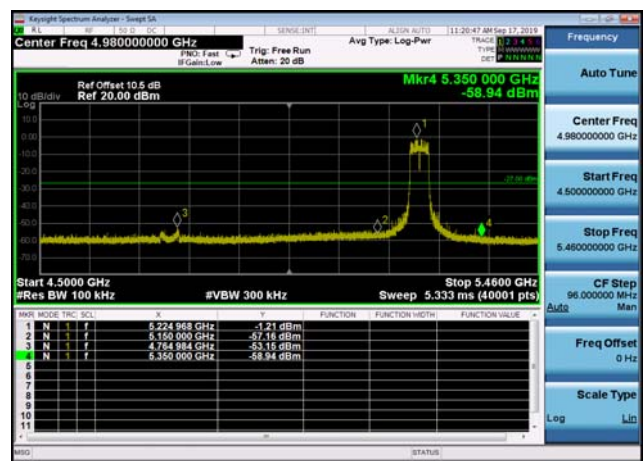
U-NII-1 ,Plot 1,Band Edge-802.11n(40M Hz),5190MHz,Ant2



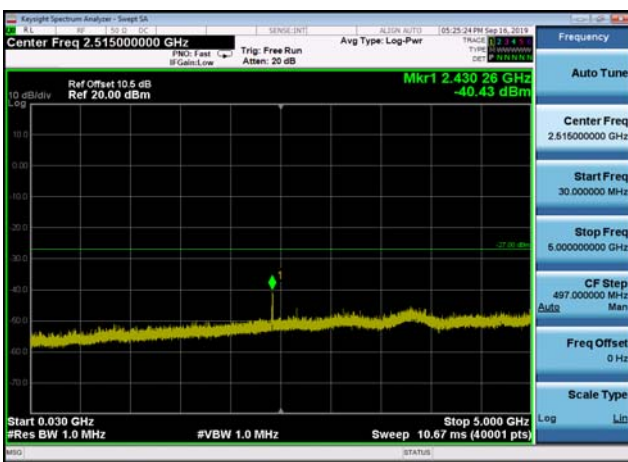
U-NII-1 ,Plot 1,Band Edge-802.11n(40M Hz),5230MHz,Ant1



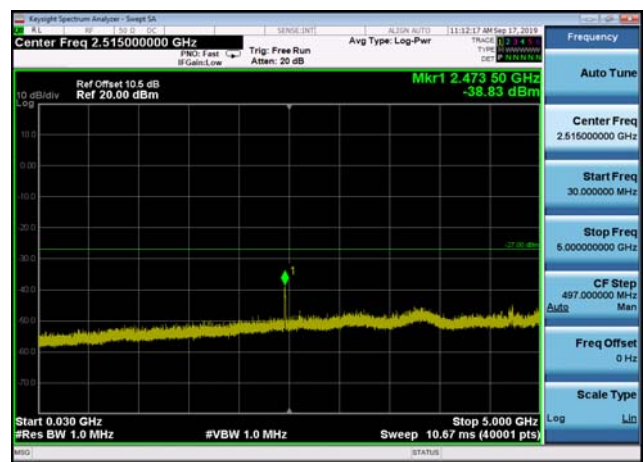
U-NII-1 ,Plot 1,Band Edge-802.11n(40M Hz),5230MHz,Ant2



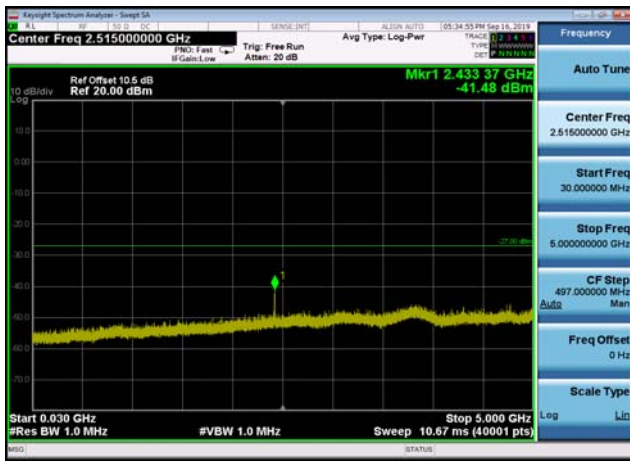
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n (40MHz),5190MHz,Ant1



U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n (40MHz),5190MHz,Ant2



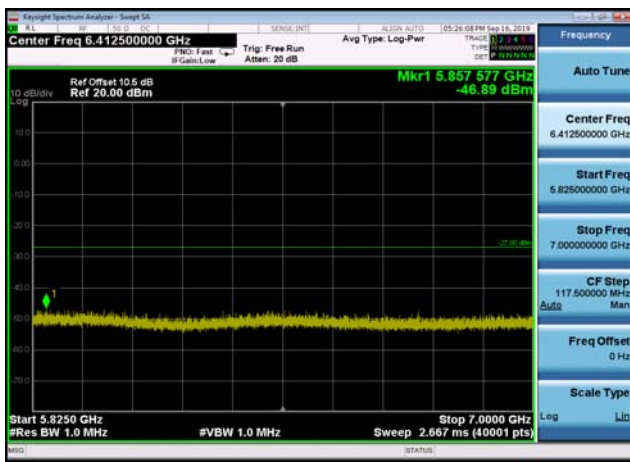
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n  
(40MHz),5230MHz,Ant1



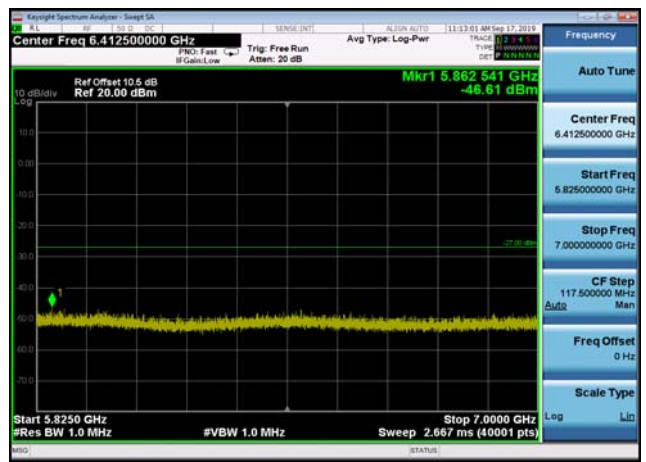
U-NII-1 ,Plot 2,30MHz~5000MHz-802.11n  
(40MHz),5230MHz,Ant2



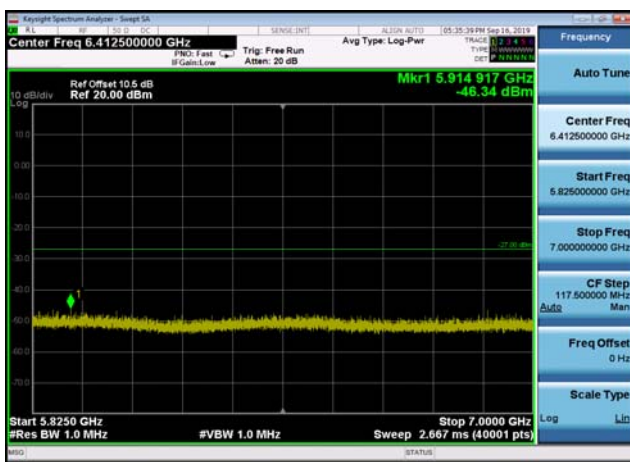
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(40MHz),5190MHz,Ant1



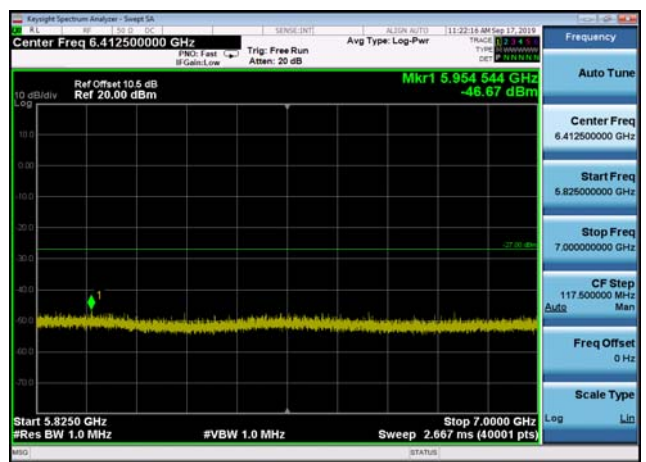
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(40MHz),5190MHz,Ant2



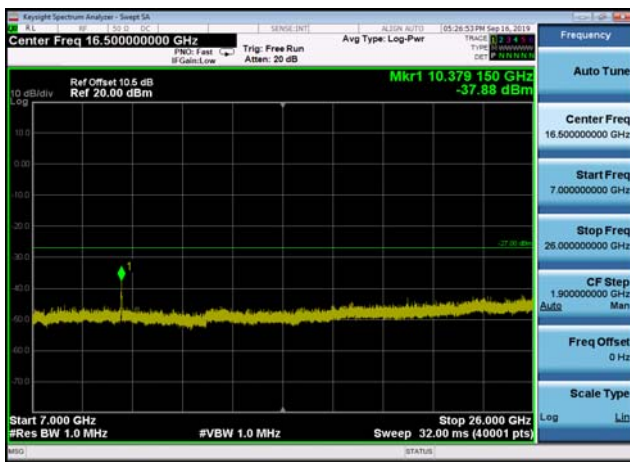
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(40MHz),5230MHz,Ant1



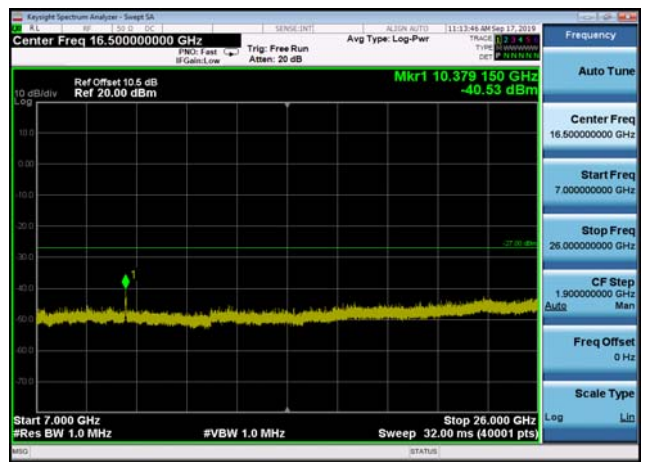
U-NII-1 ,Plot 3,5825MHz~7000MHz-802.1  
1n(40MHz),5230MHz,Ant2



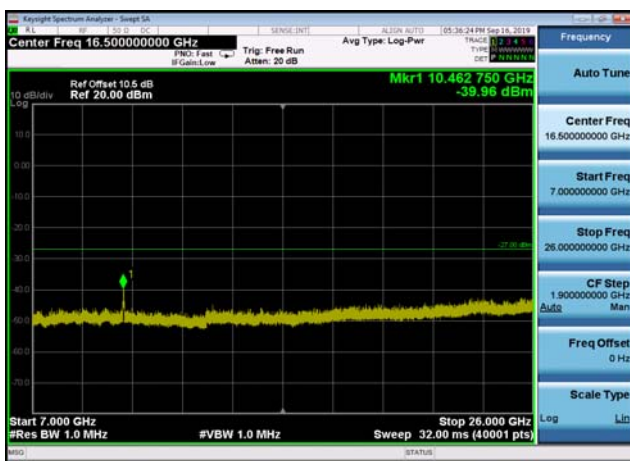
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(40MHz),5190MHz,Ant1



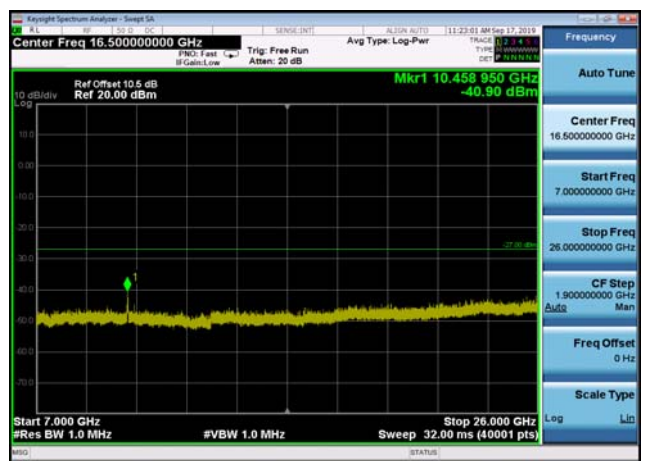
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(40MHz),5190MHz,Ant2



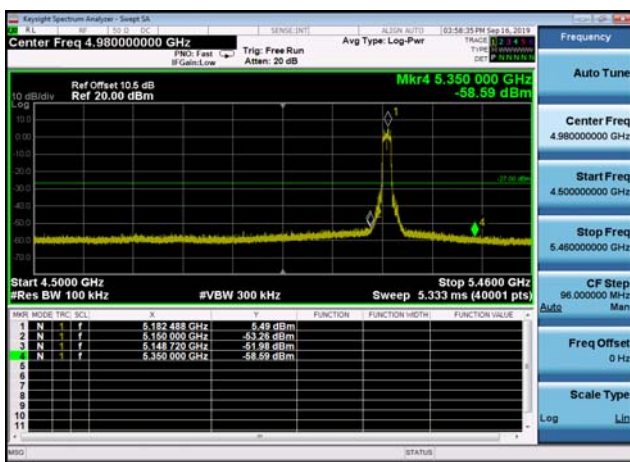
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(40MHz),5230MHz,Ant1



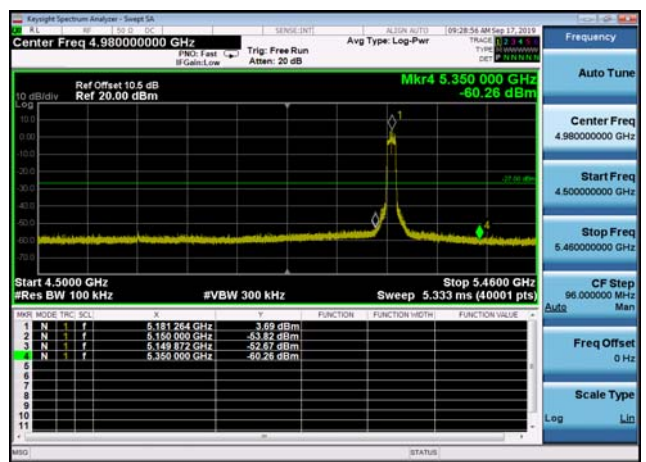
U-NII-1 ,Plot 4,7000MHz~26000MHz-802.  
11n(40MHz),5230MHz,Ant2



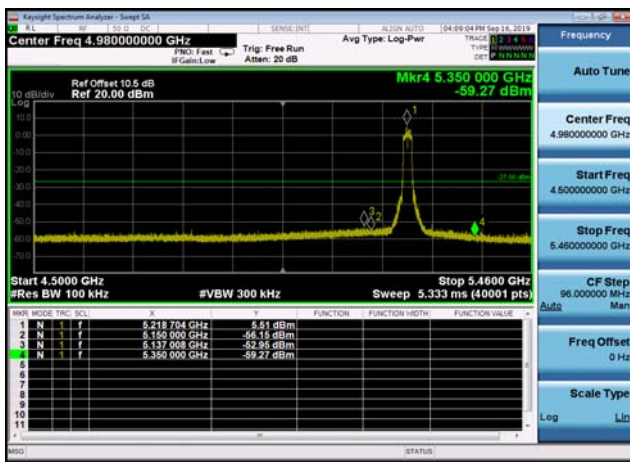
U-NII-1 ,Plot 1,Band Edge-802.11a(20  
Hz),5180MHz,Ant1



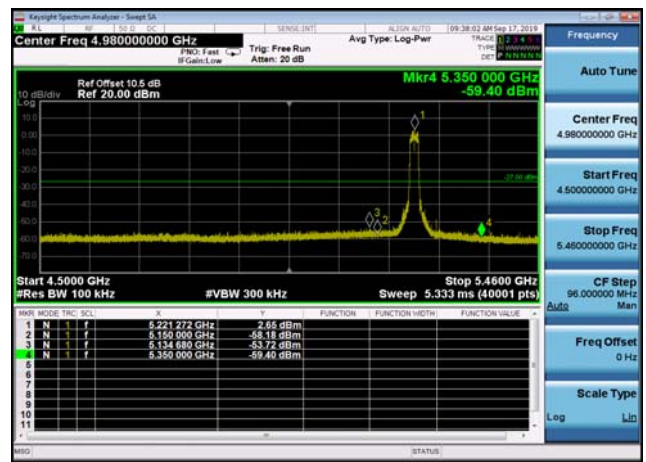
U-NII-1 ,Plot 1,Band Edge-802.11a(20  
Hz),5180MHz,Ant2



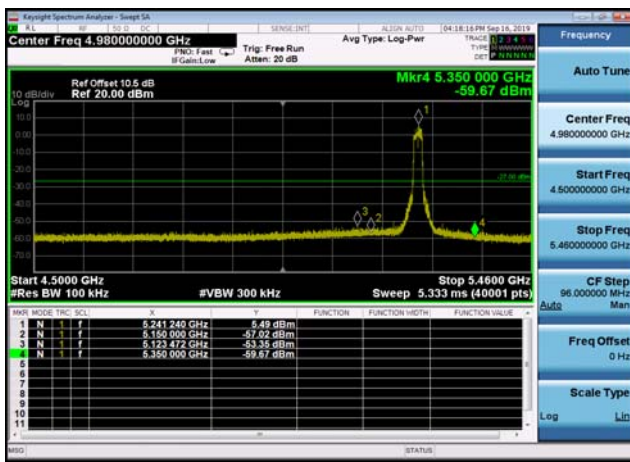
U-NII-1 ,Plot 1,Band Edge-802.11a(20M Hz),5220MHz,Ant1



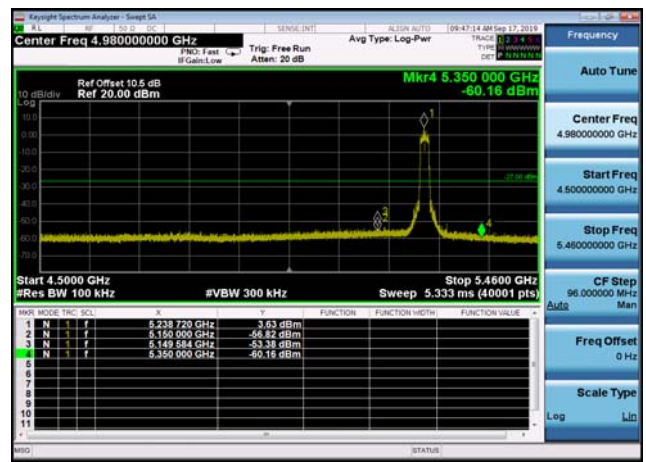
U-NII-1 ,Plot 1,Band Edge-802.11a(20M Hz),5220MHz,Ant2



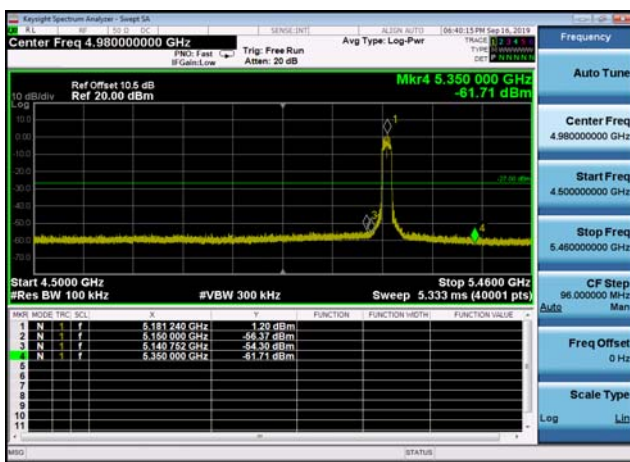
U-NII-1 ,Plot 1,Band Edge-802.11a(20M Hz),5240MHz,Ant1



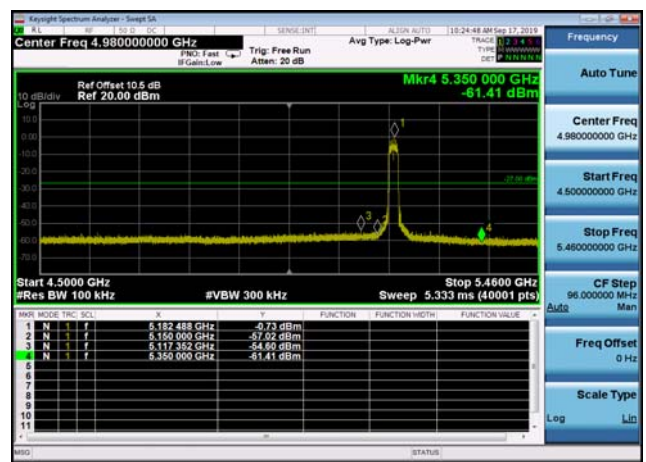
U-NII-1 ,Plot 1,Band Edge-802.11a(20M Hz),5240MHz,Ant2



U-NII-1 ,Plot 1,Band Edge-802.11ac(20 MHz),5180MHz,Ant1

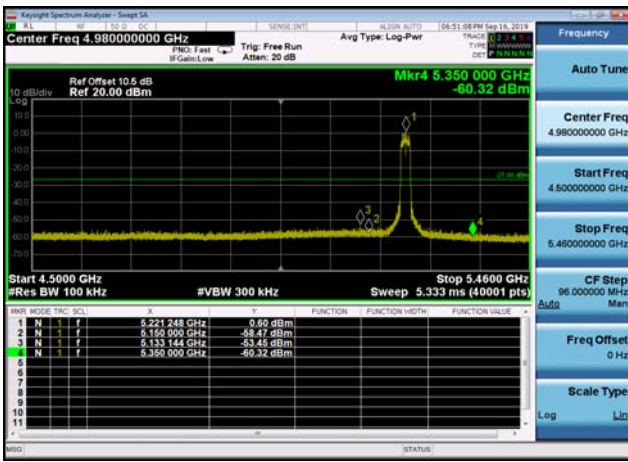


U-NII-1 ,Plot 1,Band Edge-802.11ac(20 MHz),5180MHz,Ant2

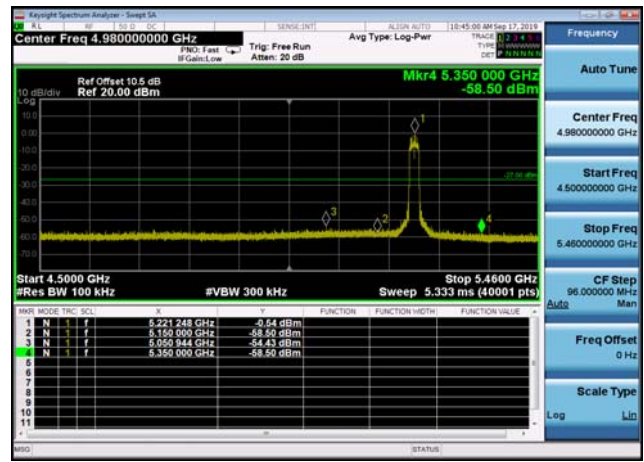




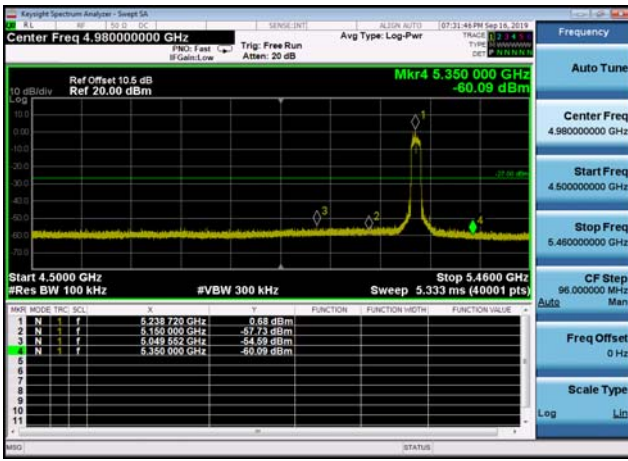
U-NII-1 ,Plot 1,Band Edge-802.11ac(20 MHz),5220MHz,Ant1



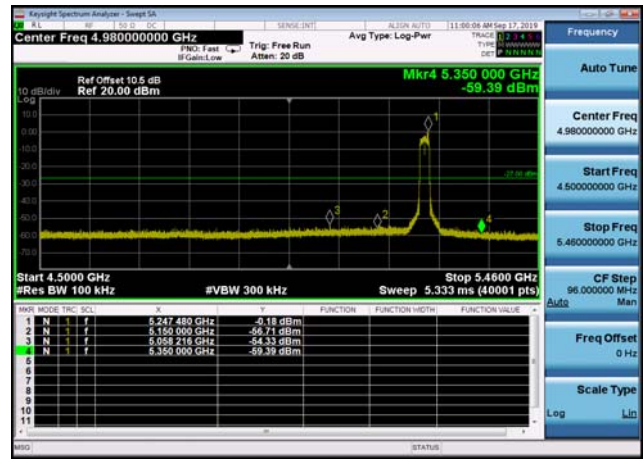
U-NII-1 ,Plot 1,Band Edge-802.11ac(20 MHz),5220MHz,Ant2



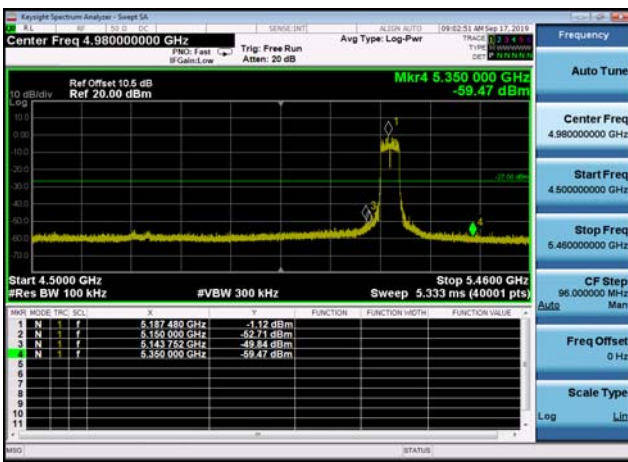
U-NII-1 ,Plot 1,Band Edge-802.11ac(20 MHz),5240MHz,Ant1



U-NII-1 ,Plot 1,Band Edge-802.11ac(20 MHz),5240MHz,Ant2



U-NII-1 ,Plot 1,Band Edge-802.11ac(40 MHz),5190MHz,Ant1



U-NII-1 ,Plot 1,Band Edge-802.11ac(40 MHz),5190MHz,Ant2

