

# TEST REPORT

**Applicant:** JACS Solutions, Inc.  
**Address:** 809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090  
**Equipment Type:** 15.6" Tablet  
**Model Name:** EA1510  
**Brand Name:** N/A  
**FCC ID:** 2AGCDJACSEA1510  
**Test Standard:** 47 CFR Part 15 Subpart E (refer to section 3.1)  
**Sample Arrival Date:** Jul. 06, 2023  
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**ISSUED BY:**

Shenzhen BALUN Technology Co., Ltd.

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<b>Revision History</b>		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 16, 2023</u>	<u>Initial Issue</u>

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# 1 GENERAL INFORMATION

## 1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

## 1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

## 2 PRODUCT INFORMATION

### 2.1 Applicant Information

Applicant	JACS Solutions, Inc.
Address	809 Pinnacle Drive, Suite R, Linthicum Heights, MD 21090

### 2.2 Manufacturer Information

Manufacturer	N/A
Address	N/A

### 2.3 General Description for Equipment under Test (EUT)

EUT Name	15.6" Tablet
Model Name Under Test	EA1510
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V1.0
Software Version	V1.0.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

## 2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) U-NII-1/3
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	<input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Product Type	Mobile for FCC standard
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 44.16 mW U-NII-3: 38.82 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	Dipole Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 3.82 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.24 dBi
About the Product	The equipment is 15.6" Tablet, intended for used with information technology equipment.

## 2.5 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
<b>36</b>	<b>5180</b>	<b>38</b>	<b>5190</b>	<b>42</b>	<b>5210</b>
40	5200	<b>46</b>	<b>5230</b>	<b>155</b>	<b>5775</b>
<b>44</b>	<b>5220</b>	<b>151</b>	<b>5755</b>		
<b>48</b>	<b>5240</b>	<b>159</b>	<b>5795</b>		
<b>149</b>	<b>5745</b>				
153	5765				
<b>157</b>	<b>5785</b>				
161	5805				
<b>165</b>	<b>5825</b>				

The Lowest frequency, the middle frequency and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20)/ac(VHT20)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n(HT40)/ac(VHT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

For 802.11ac(VHT80)

U-NII-1 (5150 - 5250 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	155	Mid	5775

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
6 dB bandwidth	11a	6	BPSK	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	165/157/149
	11n(40 MHz)	13.5		N/A	159/151
	11ac(20 MHz)	6.5		N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	159/151
	11ac(80 MHz)	29.3		N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/36	165/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155



### 3 SUMMARY OF TEST RESULTS

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

#### 3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass <sup>Note1</sup>
2	RF Output Power	15.407(a)	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass
6	Conducted Emission	15.207	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.6	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

## 4 GENERAL TEST CONFIGURATIONS

### 4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	49% to 64%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.6°C to +26.1°C
	LT (Low Temperature)	+0°C
	HT (High Temperature)	+50°C
Working Voltage of the EUT	NV (Normal Voltage)	12.0 V
	LV (Low Voltage)	10.8 V
	HV (High Voltage)	13.2 V

### 4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2023.05.16	2024.05.15
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2022.07.28	2023.07.27
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.12.28	2023.12.27
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2022.09.06	2023.09.05
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2021.05.19	2024.05.08
Test Antenna-Horn	A-INFO	LB- 180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2022.02.19	2024.08.15
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2022.09.09	2023.09.08
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	00883	2022.04.01	2025.03.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2021.04.16	2024.04.15
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	130	2021.08.15	2024.08.14
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2022.09.09	2023.09.08
LISN	SCHWARZBECK	NSLK 8127	8127-687	2023.05.16	2024.05.15
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m* 2.8m	112	2022.02.19	2025.02.18
Amplifier	COM-MV	LSCX_LNA 1-12G-01	180602	2020.09.08	2023.09.07
Amplifier	COM-MV	XKu_LNA7- 18G-01	180601	2020.09.08	2023.09.07
Amplifier	COM-MV	KA_LNA18- 40G-01	18050001	2020.09.08	2023.09.07
Amplifier	COM-MV	ZT30- 1000M	B2017119082	2022.12.07	2023.12.06

### 4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V19.8.28.435	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

### 4.4 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

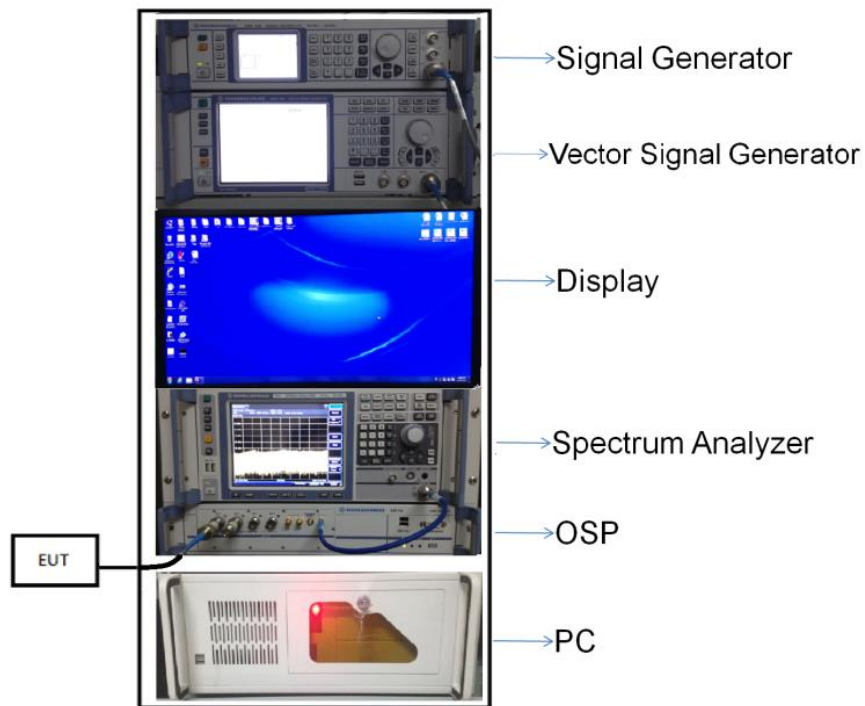
## 4.5 Description of Test Setup

### 4.5.1 For Antenna Port Test

Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



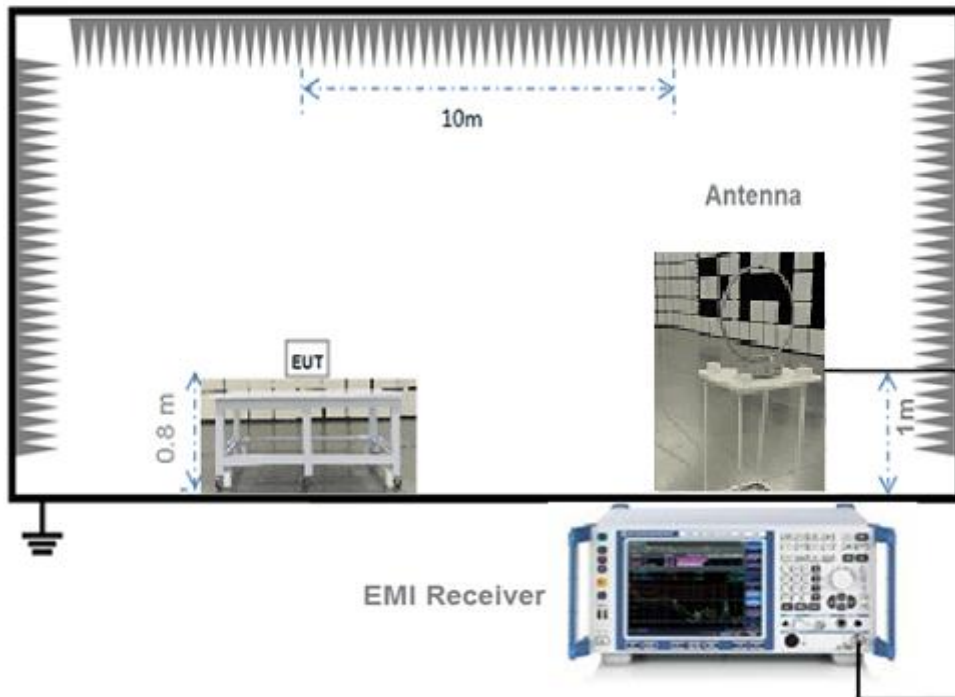
(Diagram 1)

4.5.2 For AC Power Supply Port Test



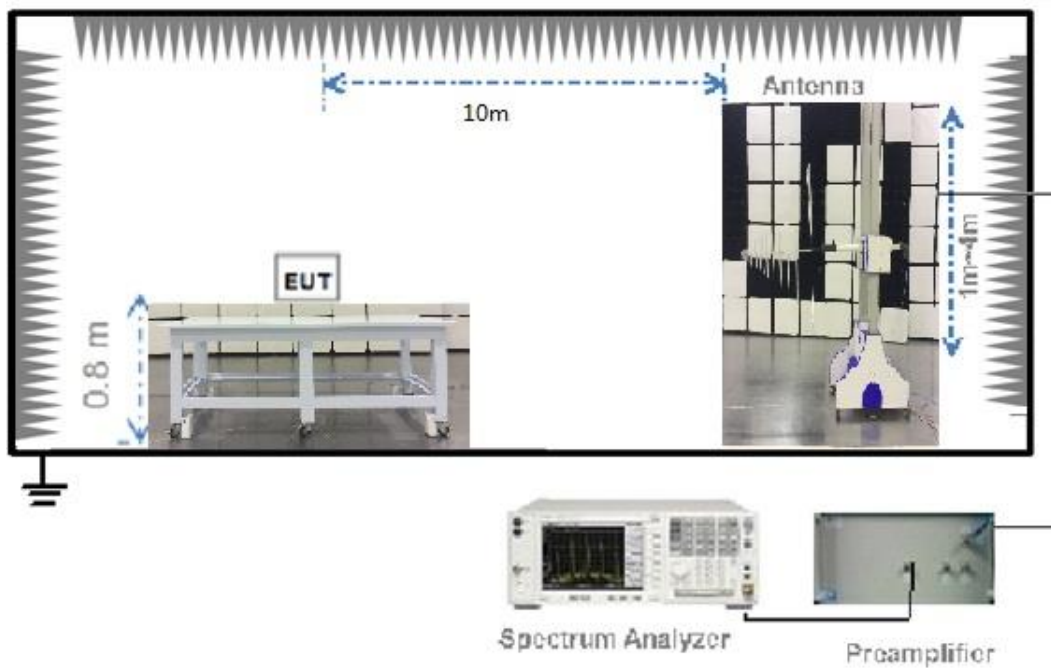
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



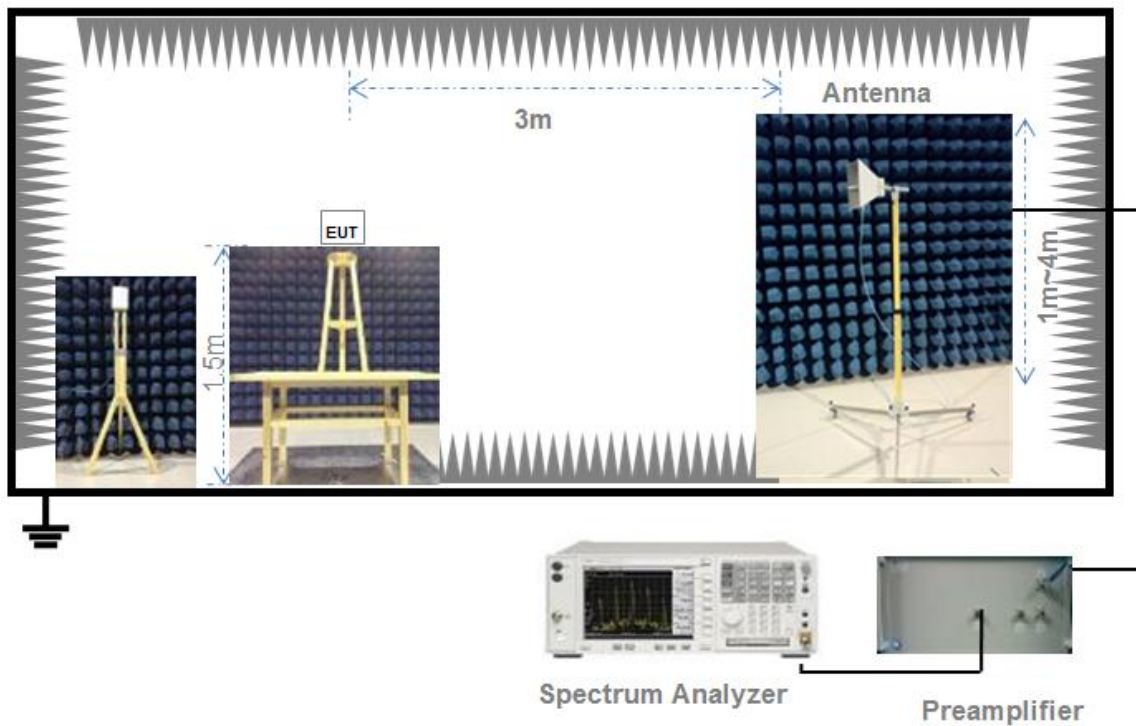
(Diagram 3)

#### 4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

#### 4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

## 5 TEST ITEMS

### 5.1 RF Output Power

#### 5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

Frequency Band (MHz)	Limit
5150-5250	250 mW
5250-5350	250 mW or 11 dBm + 10log B, whichever is less.
5470-5725	250 mW or 11 dBm + 10log B, whichever is less.
5725-5850	1 W
Note: Where "B" is the 26 dB emissions bandwidth in MHz.	

#### 5.1.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

#### 5.1.3 Test Procedure

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

#### 5.1.4 Test Result

Please refer to ANNEX A.1.

## 5.2 Emission Bandwidth and 6 dB Bandwidth

### 5.2.1 Limit

#### FCC §15.407(a)

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

### 5.2.2 Test Setup

The test setup photo please refer to 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.2.3 Test Procedure

#### Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set VBW  $\geq 3 \times$  RBW,
3. Detector = Peak.
4. Trace mode = Max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

#### Occupied Bandwidth

1. Set Span = 1.5 times to 5.0 times the OBW
2. Set RBW = 1% to 5% of the OBW.
3. Set VBW  $\geq 3 \times$  RBW, Detector = Peak.
4. Trace mode = Max hold.
5. Use the 99% power bandwidth function of the instrument.

#### 6 dB bandwidth

1. Set RBW = 100 kHz, VBW = 300 kHz.
2. Detector = Peak. Trace mode = Max hold.
3. Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 5.2.4 Test Result

Please refer to ANNEX A.2 and ANNEX A.3.



## 5.3 Power Spectral density (PSD)

### 5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	11 dBm/MHz
5250-5350	11 dBm/MHz
5470-5725	11 dBm/MHz
5725-5850	30 dBm/500kHz

### 5.3.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.3.3 Test Procedure

Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth.

1. Set RBW = 510 kHz/1 MHz, VBW  $\geq$  3\*RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

### 5.3.4 Test Result

Please refer to ANNEX A.4.

## 5.4 Conducted Emission

### 5.4.1 Limit

FCC §15.207

For an intentional radiator 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 within the U-NII-150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

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
0.50 - 30	60	50

### 5.4.2 Test Setup

The section 4.5.2 (Diagram 2) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

### 5.4.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

### 5.4.4 Test Result

Please refer to ANNEX A.5.

## 5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

### 5.5.1 Limit

FCC §15.209 & 15.407(b)

Frequency (MHz)	Field Strength (μV/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<sup>1</sup>: The Limit for radiated test was performed according to FCC Part 15C

Note<sup>2</sup>: The tighter limit applies at the band edge.

Un-restricted band emissions	
Out Operating Band (MHz)	Limit
5150 - 5250	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5250 - 5350	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5470 - 5725	e.i.r.p. -27 dBm (68.2 dBuV/m@3m)
5725 - 5850	<p>All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p>

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

## 5.5.2 Test Setup

The section 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

## 5.5.3 Test Procedure

Since the emission limits are specified in terms of radiated field strength levels, measurements performed to demonstrate compliance have traditionally relied on a radiated test configuration. Radiated measurements remain the principal method for demonstrating compliance to the specified limits; however antenna-port conducted measurements are also now acceptable to demonstrate compliance (see below for details). When radiated measurements are utilized, test site requirements and procedures for maximizing and measuring radiated emissions that are described in ANSI C63.10 shall be followed.

Antenna-port conducted measurements may also be used as an alternative to radiated measurements for demonstrating compliance in the restricted frequency bands. If conducted measurements are performed, then proper impedance matching must be ensured and an additional radiated test for cabinet/case spurious emissions is required.

### General Procedure for conducted measurements in restricted bands

- a) Measure the conducted output power (in dBm) using the detector specified (see guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
- b) Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies  $\leq 30$  MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies  $> 1000$  MHz).
- c) For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
- d) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$

where:

E = electric field strength in dB $\mu$ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

- e) Compare the resultant electric field strength level to the applicable limit.
- f) Perform radiated spurious emission test.

### Quasi-Peak measurement procedure

The specifications for measurements using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Frequency Interference (CISPR) of the International Electrotechnical Commission.

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable

emission limits using a peak detector.

#### Peak power measurement procedure

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 1.
- b) VBW  $\geq 3 \times$  RBW.
- c) Detector = Peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

Frequency	RBW
9-150 kHz	200-300 Hz
0.15-30 MHz	9-10 kHz
30-1000 MHz	100-120 kHz
> 1000 MHz	1 MHz

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

#### Trace averaging across on and off times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT (i.e., duty cycle  $\geq 98$  percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than  $\pm 2$  percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle,  $x$ , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW  $\geq 3 \times$  RBW.
- e) Detector = RMS, if  $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$ . Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
  - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
  - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.

h) Perform a trace average of at least 100 traces.

i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:

1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is  $10 \log(1/x)$ , where  $x$  is the duty cycle.

2) If linear voltage averaging mode was used in step f), then the applicable correction factor is  $20 \log(1/x)$ , where  $x$  is the duty cycle.

3) If a specific emission is demonstrated to be continuous ( $\geq 98$  percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

NOTE: Reduction of the measured emission amplitude levels to account for operational duty factor is not permitted. Compliance is based on emission levels occurring during transmission - not on an average across on and off times of the transmitter.

#### Determining the applicable transmit antenna gain

A conducted power measurement will determine the maximum output power associated with a restricted band emission; however, in order to determine the associated EIRP level, the gain of the transmitting antenna (in dBi) must be added to the measured output power (in dBm).

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

See KDB 662911 for guidance on calculating the additional array gain term when determining the effective antenna gain for a EUT with multiple outputs occupying the same or overlapping frequency ranges in the same band.

#### Radiated spurious emission test

An additional consideration when performing conducted measurements of restricted band emissions is that unwanted emissions radiating from the EUT cabinet, control circuits, power leads, or intermediate circuit elements will likely go undetected in a conducted measurement configuration. To address this concern, a radiated test shall be performed to ensure that emissions emanating from the EUT cabinet (rather than the antenna port) also comply with the applicable limits.

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

The measurement frequency range is from 30 MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for  $f \geq 1$  GHz, 100 kHz for  $f < 1$  GHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

#### 5.5.4 Test Result

Please refer to ANNEX A.6.

## ANNEX A TEST RESULT

### A.1 RF Output Power

Note: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.40	1.44	97.01%
11n (HT20)/11ac (VHT20)	1.32	1.36	96.83%
11n (HT40)/11ac (VHT40)	0.65	0.70	93.81%
11ac (VHT80)	0.32	0.37	88.53%

#### Test Data

##### Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	12.96	19.77	250	Pass
11a	CH44	16.45	44.16	250	Pass
11a	CH48	16.00	39.81	250	Pass
11n (HT20)	CH36	14.23	26.49	250	Pass
11n (HT20)	CH44	16.34	43.05	250	Pass
11n (HT20)	CH48	15.95	39.36	250	Pass
11n (HT40)	CH38	10.59	11.46	250	Pass
11n (HT40)	CH46	15.92	39.08	250	Pass
11ac (VHT20)	CH36	13.14	20.61	250	Pass
11ac (VHT20)	CH44	15.60	36.31	250	Pass
11ac (VHT20)	CH48	15.19	33.04	250	Pass
11ac (VHT40)	CH38	10.12	10.28	250	Pass
11ac (VHT40)	CH46	15.15	32.73	250	Pass
11ac (VHT80)	CH42	6.98	4.99	250	Pass



U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.19	26.24	1000	Pass
11a	CH157	14.03	25.29	1000	Pass
11a	CH165	15.39	34.59	1000	Pass
11n (HT20)	CH149	13.89	24.49	1000	Pass
11n (HT20)	CH157	13.97	24.95	1000	Pass
11n (HT20)	CH165	15.55	35.89	1000	Pass
11n (HT40)	CH151	15.36	34.36	1000	Pass
11n (HT40)	CH159	15.89	38.82	1000	Pass
11ac (VHT20)	CH149	14.29	26.85	1000	Pass
11ac (VHT20)	CH157	14.39	27.48	1000	Pass
11ac (VHT20)	CH165	15.46	35.16	1000	Pass
11ac (VHT40)	CH151	15.35	34.28	1000	Pass
11ac (VHT40)	CH159	15.81	38.11	1000	Pass
11ac (VHT80)	CH155	13.28	21.28	1000	Pass

## A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2370103-604 Data Part 1.pdf".

### Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	25.39	16.95
11a	CH44	40.00	27.62
11a	CH48	40.00	27.20
11n (HT20)	CH36	34.37	18.40
11n (HT20)	CH44	40.00	27.70
11n (HT20)	CH48	40.00	27.52
11n (HT40)	CH38	40.27	36.33
11n (HT40)	CH46	80.00	56.02
11ac (VHT20)	CH36	31.75	18.42
11ac (VHT20)	CH44	40.00	27.64
11ac (VHT20)	CH48	40.00	27.06
11ac (VHT40)	CH38	41.23	36.35
11ac (VHT40)	CH46	80.00	56.02
11ac (VHT80)	CH42	81.78	76.18

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	40.00	29.17
11a	CH157	40.00	28.86
11a	CH165	40.00	28.69
11n (HT20)	CH149	40.00	29.36
11n (HT20)	CH157	40.00	29.08
11n (HT20)	CH165	40.00	28.36
11n (HT40)	CH151	80.00	65.44
11n (HT40)	CH159	80.00	65.98
11ac (VHT20)	CH149	40.00	29.27
11ac (VHT20)	CH157	40.00	28.77
11ac (VHT20)	CH165	40.00	28.60
11ac (VHT40)	CH151	80.00	65.15
11ac (VHT40)	CH159	80.00	65.87
11ac (VHT80)	CH155	155.70	97.75

### A.3 6 dB Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-SZ2370103-604 Data Part 2.pdf".

#### Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.90	500.00	Pass
11a	CH157	16.00	500.00	Pass
11a	CH165	15.90	500.00	Pass
11n (HT20)	CH149	17.30	500.00	Pass
11n (HT20)	CH157	17.40	500.00	Pass
11n (HT20)	CH165	17.25	500.00	Pass
11n (HT40)	CH151	36.40	500.00	Pass
11n (HT40)	CH159	36.45	500.00	Pass
11ac (VHT20)	CH149	17.40	500.00	Pass
11ac (VHT20)	CH157	17.60	500.00	Pass
11ac (VHT20)	CH165	17.45	500.00	Pass
11ac (VHT40)	CH151	36.35	500.00	Pass
11ac (VHT40)	CH159	36.35	500.00	Pass
11ac (VHT80)	CH155	75.25	500.00	Pass

## A.4 Power Spectral Density

Note 1: Test plots please refer to the document "Annex No.: BL-SZ2370103-604 Data Part 3.pdf".

### Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.32	11.00	Pass
11a	CH44	5.69	11.00	Pass
11a	CH48	5.42	11.00	Pass
11n (HT20)	CH36	3.47	11.00	Pass
11n (HT20)	CH44	5.36	11.00	Pass
11n (HT20)	CH48	5.01	11.00	Pass
11n (HT40)	CH38	-3.33	11.00	Pass
11n (HT40)	CH46	1.91	11.00	Pass
11ac (VHT20)	CH36	2.24	11.00	Pass
11ac (VHT20)	CH44	4.63	11.00	Pass
11ac (VHT20)	CH48	4.26	11.00	Pass
11ac (VHT40)	CH38	-3.87	11.00	Pass
11ac (VHT40)	CH46	1.09	11.00	Pass
11ac (VHT80)	CH42	-10.03	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	1.00	30.00	Pass
11a	CH157	0.77	30.00	Pass
11a	CH165	2.22	30.00	Pass
11n (HT20)	CH149	0.51	30.00	Pass
11n (HT20)	CH157	0.58	30.00	Pass
11n (HT20)	CH165	1.92	30.00	Pass
11n (HT40)	CH151	-1.40	30.00	Pass
11n (HT40)	CH159	-1.02	30.00	Pass
11ac (VHT20)	CH149	0.78	30.00	Pass
11ac (VHT20)	CH157	0.73	30.00	Pass
11ac (VHT20)	CH165	1.87	30.00	Pass
11ac (VHT40)	CH151	-1.37	30.00	Pass
11ac (VHT40)	CH159	-0.96	30.00	Pass
11ac (VHT80)	CH155	-6.94	30.00	Pass

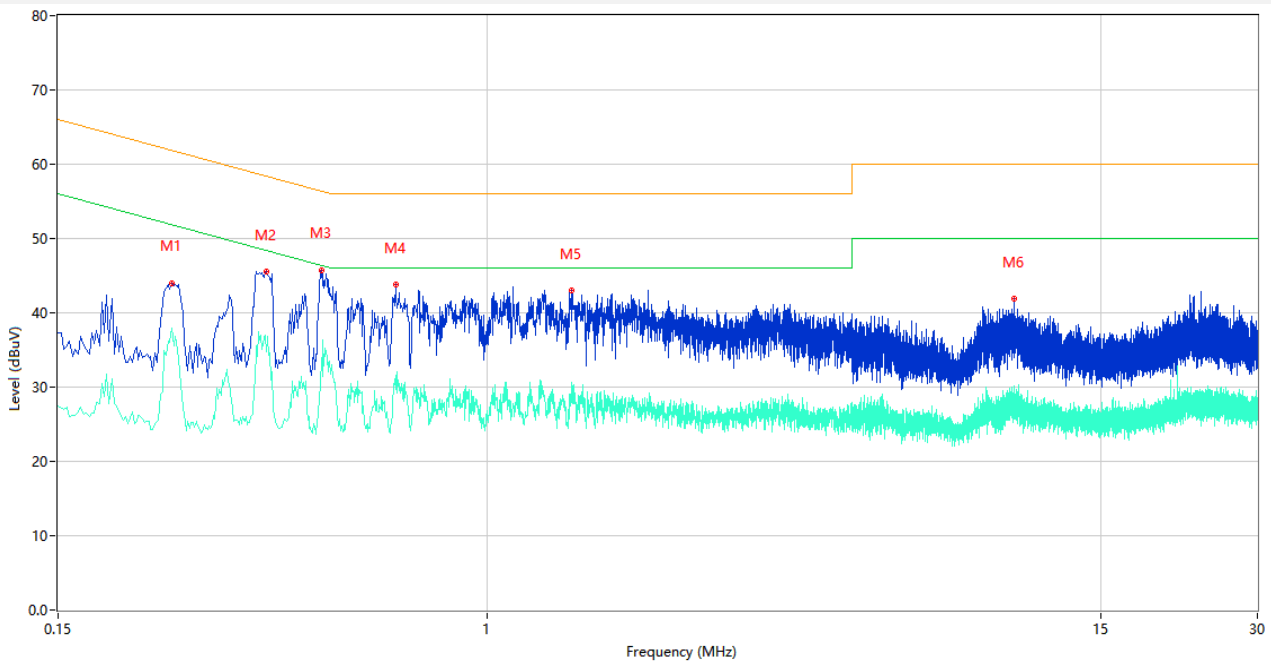
## A.5 Conducted Emissions

Note <sup>1</sup>: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note <sup>2</sup>: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

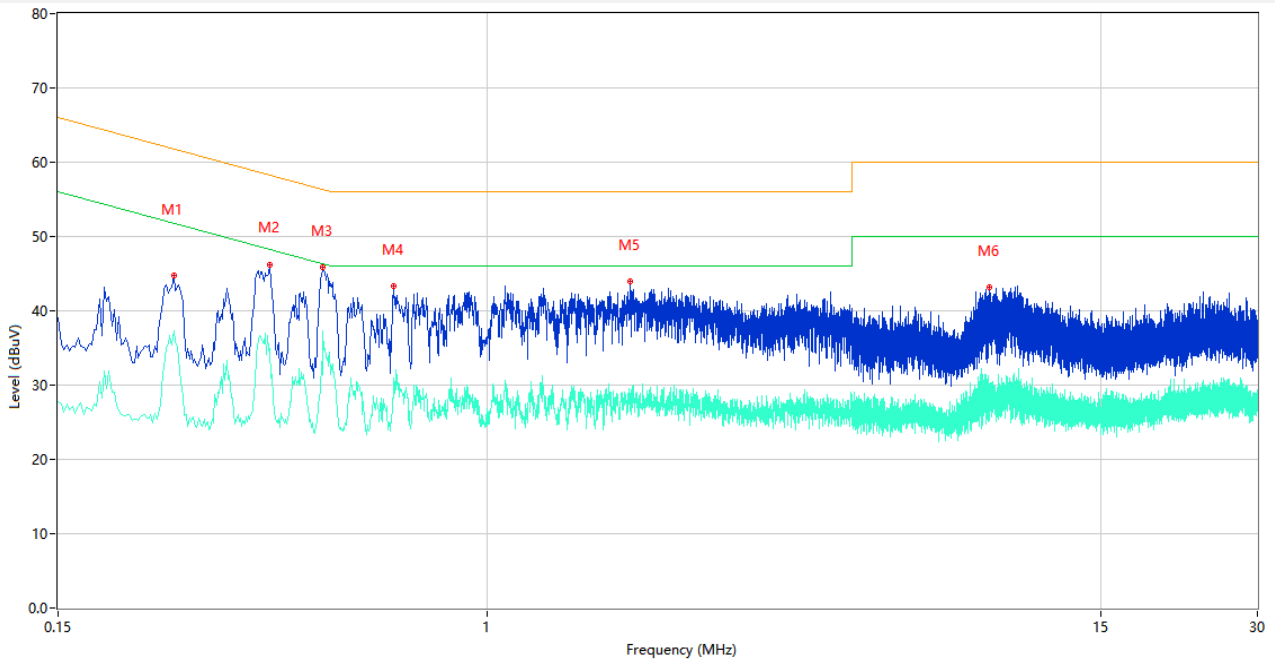
### Test Data and Plots

#### PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Margin (dB)	Over Limit (dB)	Detector	Line	Verdict
1	0.248	44.01	9.77	61.82	17.81	Peak	L	Pass
1**	0.248	37.86	9.77	51.82	13.96	AV	L	Pass
2	0.376	45.53	10.65	58.37	12.84	Peak	L	Pass
2**	0.376	34.70	10.65	48.37	13.67	AV	L	Pass
3	0.480	45.72	10.00	56.34	10.62	Peak	L	Pass
3**	0.480	34.01	10.00	46.34	12.33	AV	L	Pass
4	0.666	43.75	10.36	56.00	12.25	Peak	L	Pass
4**	0.666	31.63	10.36	46.00	14.37	AV	L	Pass
5	1.448	43.08	10.05	56.00	12.92	Peak	L	Pass
5**	1.448	30.56	10.05	46.00	15.44	AV	L	Pass
6	10.264	41.86	10.52	60.00	18.14	Peak	L	Pass
6**	10.264	28.17	10.52	50.00	21.83	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Margin (dB)	Over Limit (dB)	Detector	Line	Verdict
1	0.250	44.83	9.77	61.76	16.93	Peak	N	Pass
1**	0.250	37.25	9.77	51.76	14.51	AV	N	Pass
2	0.382	46.23	10.63	58.24	12.01	Peak	N	Pass
2**	0.382	34.88	10.63	48.24	13.36	AV	N	Pass
3	0.484	45.84	10.00	56.27	10.43	Peak	N	Pass
3**	0.484	37.38	10.00	46.27	8.89	AV	N	Pass
4	0.662	43.29	10.32	56.00	12.71	Peak	N	Pass
4**	0.662	30.93	10.32	46.00	15.07	AV	N	Pass
5	1.880	43.95	10.52	56.00	12.05	Peak	N	Pass
5**	1.880	28.30	10.52	46.00	17.70	AV	N	Pass
6	9.174	43.15	10.58	60.00	16.85	Peak	N	Pass
6**	9.174	29.02	10.58	50.00	20.98	AV	N	Pass

## A.6 Radiated Spurious Emissions and Band Edge (Restricted-band)

Note<sup>1</sup>: The symbol of "--" in the table which means not application.

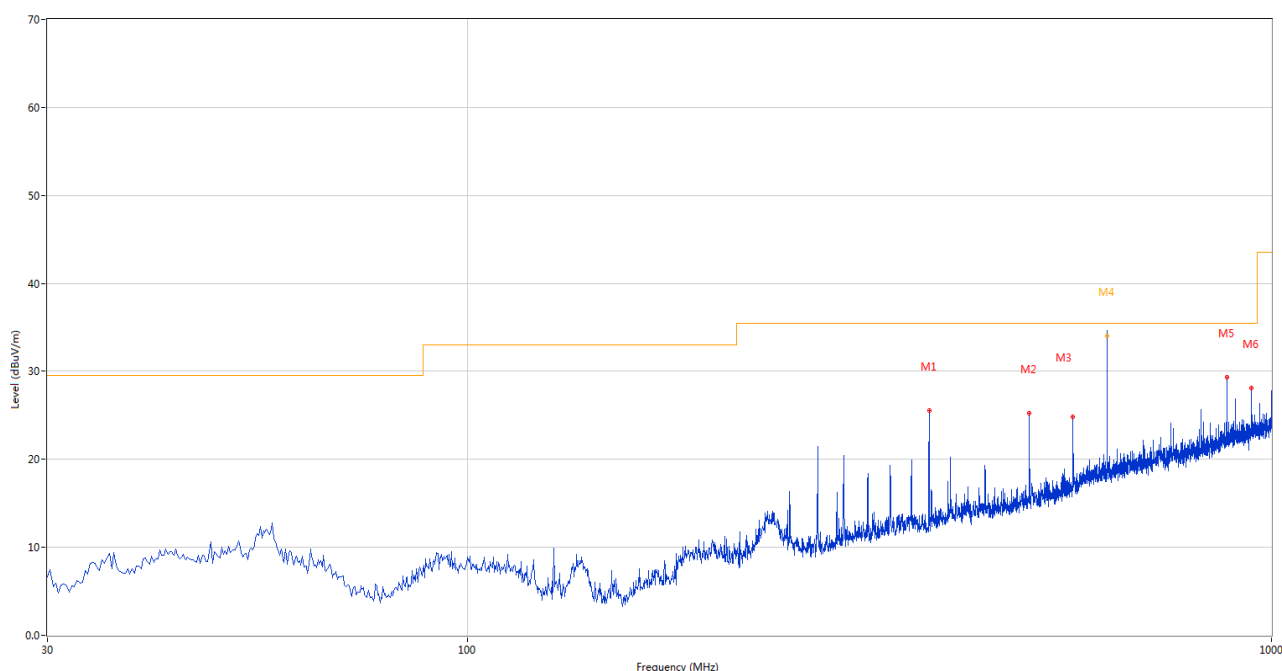
Note<sup>2</sup>: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note<sup>3</sup>: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note<sup>4</sup>: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

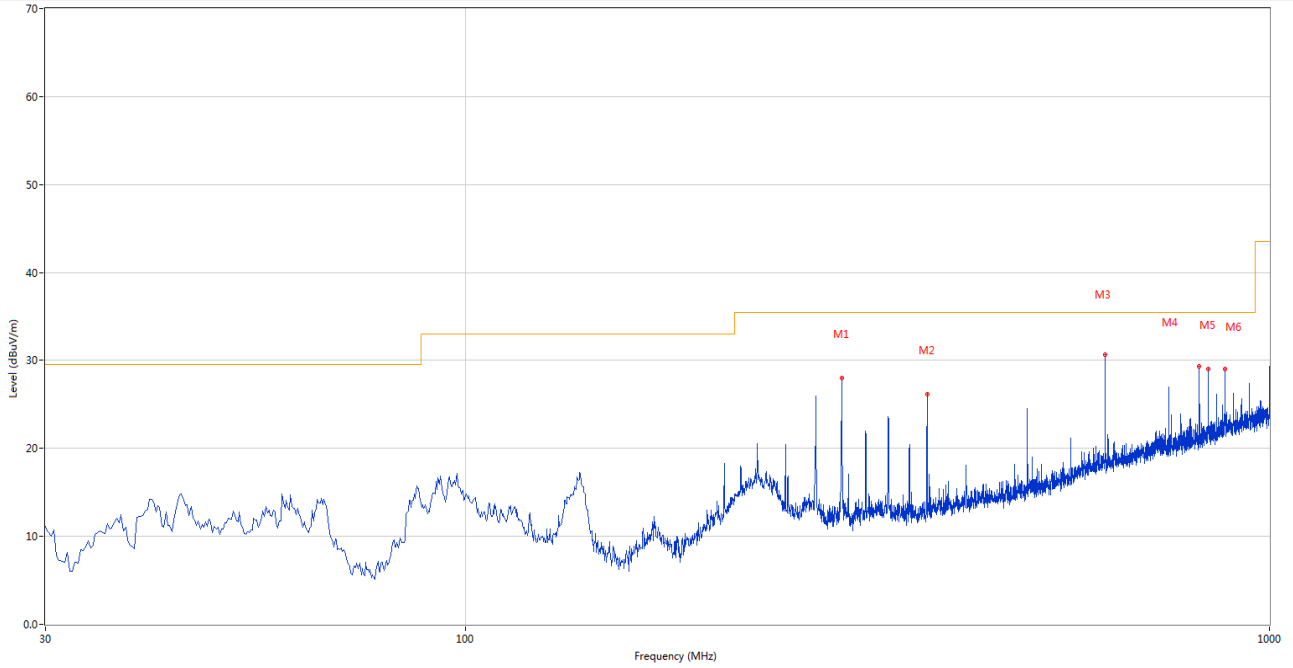
### Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	374.991	25.57	-23.22	35.5	9.93	Peak	253.00	200	Horizontal	Pass
2	499.848	25.25	-20.27	35.5	10.25	Peak	154.00	200	Horizontal	Pass
3	566.276	24.80	-19.15	35.5	10.70	Peak	263.00	200	Horizontal	Pass
4	625.006	34.74	-17.40	35.5	0.76	Peak	155.00	112	Horizontal	N/A
4*	625.006	34.07	-17.40	35.5	1.43	QP	155.00	112	Horizontal	Pass
5	880.962	29.36	-12.87	35.5	6.14	Peak	155.00	100	Horizontal	Pass
6	943.997	28.13	-12.11	35.5	7.37	Peak	236.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	293.532	28.01	-25.30	35.5	7.49	Peak	205.00	100	Vertical	Pass
2	374.991	26.17	-23.22	35.5	9.33	Peak	347.00	100	Vertical	Pass
3	624.946	30.65	-17.40	35.5	4.85	Peak	214.00	100	Vertical	Pass
4	817.928	29.37	-14.59	35.5	6.13	Peak	168.00	200	Vertical	Pass
5	839.020	29.03	-13.80	35.5	6.47	Peak	177.00	200	Vertical	Pass
6	881.205	29.01	-12.86	35.5	6.49	Peak	205.00	200	Vertical	Pass



Note: The spurious above 18G is noise only, do not show on the report.

#### 11a, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.700	39.66	-16.88	74.0	34.34	Peak	289.00	300	Horizontal	Pass
1**	1443.700	30.71	-16.88	54.0	23.29	AV	289.00	300	Horizontal	Pass
2	4260.500	47.20	-4.43	74.0	26.80	Peak	203.00	150	Horizontal	Pass
2**	4260.500	39.41	-4.43	54.0	14.59	AV	203.00	150	Horizontal	Pass
3	5178.500	108.59	-2.63	--	--	Peak	109.00	100	Horizontal	N/A
3**	5178.500	101.61	-2.63	--	--	AV	109.00	100	Horizontal	N/A
4	7373.750	53.21	0.80	74.0	20.79	Peak	155.00	200	Horizontal	Pass
4**	7373.750	43.86	0.80	54.0	10.14	AV	155.00	200	Horizontal	Pass
5	12350.287	51.91	0.85	74.0	22.09	Peak	334.00	150	Horizontal	Pass
5**	12350.287	44.51	0.85	54.0	9.49	AV	334.00	150	Horizontal	Pass
6	16164.338	52.51	2.05	74.0	21.49	Peak	358.00	400	Horizontal	Pass
6**	16164.338	43.83	2.05	54.0	10.17	AV	358.00	400	Horizontal	Pass

#### 11a, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1583.600	40.70	-16.96	74.0	33.30	Peak	286.00	200	Vertical	Pass
1**	1583.600	30.99	-16.96	54.0	23.01	AV	286.00	200	Vertical	Pass
2	4351.250	47.68	-4.39	74.0	26.32	Peak	298.00	300	Vertical	Pass
2**	4351.250	37.89	-4.39	54.0	16.11	AV	298.00	300	Vertical	Pass
3	5182.750	98.72	-2.41	--	--	Peak	60.00	100	Vertical	N/A
3**	5182.750	90.97	-2.41	--	--	AV	60.00	100	Vertical	N/A
4	7644.250	53.35	0.70	74.0	20.65	Peak	360.00	200	Vertical	Pass
4**	7644.250	43.59	0.70	54.0	10.41	AV	360.00	200	Vertical	Pass
5	12428.662	52.29	1.07	74.0	21.71	Peak	189.00	200	Vertical	Pass
5**	12428.662	44.15	1.07	54.0	9.85	AV	189.00	200	Vertical	Pass
6	16119.975	52.75	1.91	74.0	21.25	Peak	108.00	200	Vertical	Pass
6**	16119.975	44.24	1.91	54.0	9.76	AV	108.00	200	Vertical	Pass

## 11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.600	39.22	-16.95	74.0	34.78	Peak	281.00	300	Horizontal	Pass
1**	1440.600	30.08	-16.95	54.0	23.92	AV	281.00	300	Horizontal	Pass
2	4214.750	47.44	-5.30	74.0	26.56	Peak	123.00	300	Horizontal	Pass
2**	4214.750	37.02	-5.30	54.0	16.98	AV	123.00	300	Horizontal	Pass
3	5219.000	108.34	-2.84	--	--	Peak	80.00	200	Horizontal	N/A
3**	5219.000	101.91	-2.84	--	--	AV	80.00	200	Horizontal	N/A
4	7742.000	53.57	0.45	74.0	20.43	Peak	360.00	400	Horizontal	Pass
4**	7742.000	44.37	0.45	54.0	9.63	AV	360.00	400	Horizontal	Pass
5	12353.138	53.03	0.86	74.0	20.97	Peak	0.00	200	Horizontal	Pass
5**	12353.138	42.86	0.86	54.0	11.14	AV	0.00	200	Horizontal	Pass
6	16023.375	52.42	1.18	74.0	21.58	Peak	42.00	400	Horizontal	Pass
6**	16023.375	43.49	1.18	54.0	10.51	AV	42.00	400	Horizontal	Pass

## 11a, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.000	41.67	-17.10	74.0	32.33	Peak	288.00	200	Vertical	Pass
1**	1584.000	31.30	-17.10	54.0	22.70	AV	288.00	200	Vertical	Pass
2	4377.000	47.11	-4.92	74.0	26.89	Peak	228.00	400	Vertical	Pass
2**	4377.000	37.98	-4.92	54.0	16.02	AV	228.00	400	Vertical	Pass
3	5216.000	96.97	-2.61	--	--	Peak	181.00	150	Vertical	N/A
3**	5216.000	88.52	-2.61	--	--	AV	181.00	150	Vertical	N/A
4	7732.750	53.47	0.43	74.0	20.53	Peak	181.00	100	Vertical	Pass
4**	7732.750	45.10	0.43	54.0	8.90	AV	181.00	100	Vertical	Pass
5	12322.263	52.31	0.68	74.0	21.69	Peak	58.00	200	Vertical	Pass
5**	12322.263	42.78	0.68	54.0	11.22	AV	58.00	200	Vertical	Pass
6	16172.213	52.98	2.00	74.0	21.02	Peak	160.00	300	Vertical	Pass
6**	16172.213	43.73	2.00	54.0	10.27	AV	160.00	300	Vertical	Pass

## 11a, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.200	40.54	-17.11	74.0	33.46	Peak	94.00	400	Horizontal	Pass
1**	1584.200	30.71	-17.11	54.0	23.29	AV	94.00	400	Horizontal	Pass
2	4234.250	48.42	-4.92	74.0	25.58	Peak	64.00	200	Horizontal	Pass
2**	4234.250	37.96	-4.92	54.0	16.04	AV	64.00	200	Horizontal	Pass
3	5241.000	107.62	-3.09	--	--	Peak	295.00	200	Horizontal	N/A
3**	5241.000	100.47	-3.09	--	--	AV	295.00	200	Horizontal	N/A
4	7494.500	53.86	1.15	74.0	20.14	Peak	155.00	400	Horizontal	Pass
4**	7494.500	44.27	1.15	54.0	9.73	AV	155.00	400	Horizontal	Pass
5	11785.037	52.60	-0.16	74.0	21.40	Peak	317.00	100	Horizontal	Pass
5**	11785.037	42.60	-0.16	54.0	11.40	AV	317.00	100	Horizontal	Pass
6	16170.375	53.33	2.01	74.0	20.67	Peak	276.00	100	Horizontal	Pass
6**	16170.375	44.32	2.01	54.0	9.68	AV	276.00	100	Horizontal	Pass

## 11a, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1583.200	41.42	-16.84	74.0	32.58	Peak	278.00	400	Vertical	Pass
1**	1583.200	30.02	-16.84	54.0	23.98	AV	278.00	400	Vertical	Pass
2	4394.500	47.75	-4.73	74.0	26.25	Peak	245.00	200	Vertical	Pass
2**	4394.500	38.23	-4.73	54.0	15.77	AV	245.00	200	Vertical	Pass
3	5233.000	95.76	-2.98	--	--	Peak	63.00	100	Vertical	N/A
3**	5233.000	87.07	-2.98	--	--	AV	63.00	100	Vertical	N/A
4	7640.250	53.48	0.47	74.0	20.52	Peak	315.00	400	Vertical	Pass
4**	7640.250	44.89	0.47	54.0	9.11	AV	315.00	400	Vertical	Pass
5	12388.525	53.36	1.05	74.0	20.64	Peak	325.00	200	Vertical	Pass
5**	12388.525	42.31	1.05	54.0	11.69	AV	325.00	200	Vertical	Pass
6	16167.750	53.10	2.03	74.0	20.90	Peak	291.00	400	Vertical	Pass
6**	16167.750	43.61	2.03	54.0	10.39	AV	291.00	400	Vertical	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.600	40.44	-16.90	74.0	33.56	Peak	287.00	300	Horizontal	Pass
1**	1442.600	31.11	-16.90	54.0	22.89	AV	287.00	300	Horizontal	Pass
2	4380.000	47.43	-4.98	74.0	26.57	Peak	87.00	400	Horizontal	Pass
2**	4380.000	37.66	-4.98	54.0	16.34	AV	87.00	400	Horizontal	Pass
3	5181.000	108.39	-2.37	--	--	Peak	111.00	200	Horizontal	N/A
3**	5181.000	100.85	-2.37	--	--	AV	111.00	200	Horizontal	N/A
4	7712.750	53.04	1.76	74.0	20.96	Peak	295.00	400	Horizontal	Pass
4**	7712.750	44.21	1.76	54.0	9.79	AV	295.00	400	Horizontal	Pass
5	12430.562	52.48	1.06	74.0	21.52	Peak	271.00	100	Horizontal	Pass
5**	12430.562	42.98	1.06	54.0	11.02	AV	271.00	100	Horizontal	Pass
6	16154.100	52.87	2.12	74.0	21.13	Peak	113.00	400	Horizontal	Pass
6**	16154.100	44.46	2.12	54.0	9.54	AV	113.00	400	Horizontal	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1619.900	40.64	-16.86	74.0	33.36	Peak	46.00	300	Vertical	Pass
1**	1619.900	33.60	-16.86	54.0	20.40	AV	46.00	300	Vertical	Pass
2	4369.250	47.43	-5.02	74.0	26.57	Peak	111.00	100	Vertical	Pass
2**	4369.250	39.49	-5.02	54.0	14.51	AV	111.00	100	Vertical	Pass
3	5181.000	98.40	-2.37	--	--	Peak	41.00	100	Vertical	N/A
3**	5181.000	91.39	-2.37	--	--	AV	41.00	100	Vertical	N/A
4	7642.750	53.08	0.90	74.0	20.92	Peak	295.00	400	Vertical	Pass
4**	7642.750	44.18	0.90	54.0	9.82	AV	295.00	400	Vertical	Pass
5	12370.713	52.64	0.95	74.0	21.36	Peak	278.00	200	Vertical	Pass
5**	12370.713	42.96	0.95	54.0	11.04	AV	278.00	200	Vertical	Pass
6	16147.800	52.71	2.13	74.0	21.29	Peak	273.00	400	Vertical	Pass
6**	16147.800	43.03	2.13	54.0	10.97	AV	273.00	400	Vertical	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1620.400	39.12	-16.90	74.0	34.88	Peak	0.00	100	Horizontal	Pass
1**	1620.400	31.33	-16.90	54.0	22.67	AV	0.00	100	Horizontal	Pass
2	4257.500	48.03	-4.36	74.0	25.97	Peak	36.00	100	Horizontal	Pass
2**	4257.500	38.31	-4.36	54.0	15.69	AV	36.00	100	Horizontal	Pass
3	5220.750	108.87	-2.93	--	--	Peak	101.00	100	Horizontal	N/A
3**	5220.750	100.25	-2.93	--	--	AV	101.00	100	Horizontal	N/A
4	7646.750	53.25	0.77	74.0	20.75	Peak	79.00	100	Horizontal	Pass
4**	7646.750	44.54	0.77	54.0	9.46	AV	79.00	100	Horizontal	Pass
5	12430.088	53.41	1.07	74.0	20.59	Peak	186.00	200	Horizontal	Pass
5**	12430.088	43.37	1.07	54.0	10.63	AV	186.00	200	Horizontal	Pass
6	16154.100	53.19	2.12	74.0	20.81	Peak	215.00	200	Horizontal	Pass
6**	16154.100	43.49	2.12	54.0	10.51	AV	215.00	200	Horizontal	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1583.500	41.68	-16.91	74.0	32.32	Peak	286.00	200	Vertical	Pass
1**	1583.500	29.52	-16.91	54.0	24.48	AV	286.00	200	Vertical	Pass
2	4367.250	47.28	-4.78	74.0	26.72	Peak	273.00	400	Vertical	Pass
2**	4367.250	38.11	-4.78	54.0	15.89	AV	273.00	400	Vertical	Pass
3	5218.750	96.90	-2.94	--	--	Peak	180.00	200	Vertical	N/A
3**	5218.750	88.98	-2.94	--	--	AV	180.00	200	Vertical	N/A
4	7704.500	53.71	1.93	74.0	20.29	Peak	42.00	300	Vertical	Pass
4**	7704.500	44.53	1.93	54.0	9.47	AV	42.00	300	Vertical	Pass
5	12334.850	53.18	0.76	74.0	20.82	Peak	50.00	100	Vertical	Pass
5**	12334.850	42.96	0.76	54.0	11.04	AV	50.00	100	Vertical	Pass
6	16180.350	53.20	1.95	74.0	20.80	Peak	142.00	200	Vertical	Pass
6**	16180.350	43.53	1.95	54.0	10.47	AV	142.00	200	Vertical	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.700	39.70	-16.99	74.0	34.30	Peak	291.00	100	Horizontal	Pass
1**	1441.700	31.80	-16.99	54.0	22.20	AV	291.00	100	Horizontal	Pass
2	4350.250	47.19	-4.78	74.0	26.81	Peak	189.00	300	Horizontal	Pass
2**	4350.250	37.41	-4.78	54.0	16.59	AV	189.00	300	Horizontal	Pass
3	5241.000	107.31	-3.09	--	--	Peak	295.00	100	Horizontal	N/A
3**	5241.000	99.64	-3.09	--	--	AV	295.00	100	Horizontal	N/A
4	7368.750	53.45	0.87	74.0	20.55	Peak	147.00	200	Horizontal	Pass
4**	7368.750	43.98	0.87	54.0	10.02	AV	147.00	200	Horizontal	Pass
5	12359.550	52.81	0.90	74.0	21.19	Peak	245.00	200	Horizontal	Pass
5**	12359.550	43.61	0.90	54.0	10.39	AV	245.00	200	Horizontal	Pass
6	16155.412	53.23	2.12	74.0	20.77	Peak	207.00	300	Horizontal	Pass
6**	16155.412	43.74	2.12	54.0	10.26	AV	207.00	300	Horizontal	Pass

## 11n20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1578.900	40.37	-16.88	74.0	33.63	Peak	278.00	200	Vertical	Pass
1**	1578.900	31.01	-16.88	54.0	22.99	AV	278.00	200	Vertical	Pass
2	4208.500	46.82	-4.87	74.0	27.18	Peak	0.00	200	Vertical	Pass
2**	4208.500	38.66	-4.87	54.0	15.34	AV	0.00	200	Vertical	Pass
3	5238.000	95.23	-3.05	--	--	Peak	268.00	100	Vertical	N/A
3**	5238.000	88.43	-3.05	--	--	AV	268.00	100	Vertical	N/A
4	7724.000	53.56	0.66	74.0	20.44	Peak	130.00	100	Vertical	Pass
4**	7724.000	44.25	0.66	54.0	9.75	AV	130.00	100	Vertical	Pass
5	12392.325	52.59	1.07	74.0	21.41	Peak	81.00	200	Vertical	Pass
5**	12392.325	42.90	1.07	54.0	11.10	AV	81.00	200	Vertical	Pass
6	16195.575	52.66	1.84	74.0	21.34	Peak	92.00	100	Vertical	Pass
6**	16195.575	42.78	1.84	54.0	11.22	AV	92.00	100	Vertical	Pass

## 11n40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.800	39.53	-16.94	74.0	34.47	Peak	292.00	300	Horizontal	Pass
1**	1442.800	30.30	-16.94	54.0	23.70	AV	292.00	300	Horizontal	Pass
2	4280.250	47.06	-4.62	74.0	26.94	Peak	104.00	300	Horizontal	Pass
2**	4280.250	38.14	-4.62	54.0	15.86	AV	104.00	300	Horizontal	Pass
3	5186.250	105.98	-2.42	--	--	Peak	104.00	100	Horizontal	N/A
3**	5186.250	97.92	-2.42	--	--	AV	104.00	100	Horizontal	N/A
4	7741.500	53.92	0.15	74.0	20.08	Peak	149.00	200	Horizontal	Pass
4**	7741.500	45.29	0.15	54.0	8.71	AV	149.00	200	Horizontal	Pass
5	12421.775	52.49	1.08	74.0	21.51	Peak	251.00	200	Horizontal	Pass
5**	12421.775	43.92	1.08	54.0	10.08	AV	251.00	200	Horizontal	Pass
6	15757.725	53.37	1.20	74.0	20.63	Peak	53.00	200	Horizontal	Pass
6**	15757.725	43.39	1.20	54.0	10.61	AV	53.00	200	Horizontal	Pass

## 11n40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1448.400	40.23	-16.98	74.0	33.77	Peak	328.00	300	Vertical	Pass
1**	1448.400	32.87	-16.98	54.0	21.13	AV	328.00	300	Vertical	Pass
2	4208.500	47.36	-4.87	74.0	26.64	Peak	65.00	300	Vertical	Pass
2**	4208.500	38.01	-4.87	54.0	15.99	AV	65.00	300	Vertical	Pass
3	5192.250	95.35	-2.84	--	--	Peak	41.00	100	Vertical	N/A
3**	5192.250	86.46	-2.84	--	--	AV	41.00	100	Vertical	N/A
4	7495.500	54.02	1.07	74.0	19.98	Peak	360.00	200	Vertical	Pass
4**	7495.500	45.22	1.07	54.0	8.78	AV	360.00	200	Vertical	Pass
5	12530.312	51.96	1.26	74.0	22.04	Peak	76.00	200	Vertical	Pass
5**	12530.312	43.26	1.26	54.0	10.74	AV	76.00	200	Vertical	Pass
6	16159.612	52.49	2.09	74.0	21.51	Peak	118.00	400	Vertical	Pass
6**	16159.612	43.77	2.09	54.0	10.23	AV	118.00	400	Vertical	Pass

## 11n40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.900	39.87	-16.89	74.0	34.13	Peak	280.00	100	Horizontal	Pass
1**	1438.900	30.79	-16.89	54.0	23.21	AV	280.00	100	Horizontal	Pass
2	4126.750	47.69	-5.47	74.0	26.31	Peak	256.00	200	Horizontal	Pass
2**	4126.750	37.54	-5.47	54.0	16.46	AV	256.00	200	Horizontal	Pass
3	5228.000	105.32	-3.13	--	--	Peak	298.00	150	Horizontal	N/A
3**	5228.000	97.45	-3.13	--	--	AV	298.00	150	Horizontal	N/A
4	7745.500	53.70	0.09	74.0	20.30	Peak	341.00	400	Horizontal	Pass
4**	7745.500	43.76	0.09	54.0	10.24	AV	341.00	400	Horizontal	Pass
5	12346.250	52.36	0.82	74.0	21.64	Peak	254.00	200	Horizontal	Pass
5**	12346.250	43.27	0.82	54.0	10.73	AV	254.00	200	Horizontal	Pass
6	16099.500	52.93	1.74	74.0	21.07	Peak	354.00	150	Horizontal	Pass
6**	16099.500	43.11	1.74	54.0	10.89	AV	354.00	150	Horizontal	Pass

## 11n40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1448.100	40.63	-16.85	74.0	33.37	Peak	317.00	200	Vertical	Pass
1**	1448.100	30.50	-16.85	54.0	23.50	AV	317.00	200	Vertical	Pass
2	4303.000	47.25	-5.05	74.0	26.75	Peak	177.00	300	Vertical	Pass
2**	4303.000	37.50	-5.05	54.0	16.50	AV	177.00	300	Vertical	Pass
3	5228.250	93.05	-3.20	--	--	Peak	64.00	100	Vertical	N/A
3**	5228.250	85.72	-3.20	--	--	AV	64.00	100	Vertical	N/A
4	7493.250	54.15	1.01	74.0	19.85	Peak	303.00	200	Vertical	Pass
4**	7493.250	44.49	1.01	54.0	9.51	AV	303.00	200	Vertical	Pass
5	11790.262	52.47	-0.15	74.0	21.53	Peak	191.00	200	Vertical	Pass
5**	11790.262	42.84	-0.15	54.0	11.16	AV	191.00	200	Vertical	Pass
6	16163.287	52.51	2.06	74.0	21.49	Peak	16.00	200	Vertical	Pass
6**	16163.287	44.41	2.06	54.0	9.59	AV	16.00	200	Vertical	Pass



## 11ac20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.300	40.44	-16.80	74.0	33.56	Peak	278.00	100	Horizontal	Pass
1**	1441.300	32.53	-16.80	54.0	21.47	AV	278.00	100	Horizontal	Pass
2	4329.250	46.97	-5.12	74.0	27.03	Peak	152.00	400	Horizontal	Pass
2**	4329.250	37.85	-5.12	54.0	16.15	AV	152.00	400	Horizontal	Pass
3	5181.750	109.33	-2.44	--	--	Peak	108.00	100	Horizontal	N/A
3**	5181.750	101.69	-2.44	--	--	AV	108.00	100	Horizontal	N/A
4	7706.000	53.19	1.53	74.0	20.81	Peak	40.00	200	Horizontal	Pass
4**	7706.000	43.52	1.53	54.0	10.48	AV	40.00	200	Horizontal	Pass
5	12404.675	52.47	1.10	74.0	21.53	Peak	296.00	150	Horizontal	Pass
5**	12404.675	43.81	1.10	54.0	10.19	AV	296.00	150	Horizontal	Pass
6	16174.838	52.71	1.98	74.0	21.29	Peak	61.00	300	Horizontal	Pass
6**	16174.838	43.94	1.98	54.0	10.06	AV	61.00	300	Horizontal	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.400	41.13	-17.08	74.0	32.87	Peak	278.00	400	Vertical	Pass
1**	1584.400	30.50	-17.08	54.0	23.50	AV	278.00	400	Vertical	Pass
2	4279.250	48.59	-4.73	74.0	25.41	Peak	339.00	200	Vertical	Pass
2**	4279.250	38.08	-4.73	54.0	15.92	AV	339.00	200	Vertical	Pass
3	5181.000	99.14	-2.37	--	--	Peak	40.00	100	Vertical	N/A
3**	5181.000	91.74	-2.37	--	--	AV	40.00	100	Vertical	N/A
4	7552.750	53.26	-0.23	74.0	20.74	Peak	40.00	200	Vertical	Pass
4**	7552.750	43.64	-0.23	54.0	10.36	AV	40.00	200	Vertical	Pass
5	11794.537	52.04	-0.15	74.0	21.96	Peak	179.00	100	Vertical	Pass
5**	11794.537	42.50	-0.15	54.0	11.50	AV	179.00	100	Vertical	Pass
6	16161.450	52.70	2.07	74.0	21.30	Peak	17.00	200	Vertical	Pass
6**	16161.450	44.14	2.07	54.0	9.86	AV	17.00	200	Vertical	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.600	40.09	-17.11	74.0	33.91	Peak	287.00	400	Horizontal	Pass
1**	1439.600	30.50	-17.11	54.0	23.50	AV	287.00	400	Horizontal	Pass
2	4170.750	47.18	-5.31	74.0	26.82	Peak	63.00	200	Horizontal	Pass
2**	4170.750	37.37	-5.31	54.0	16.63	AV	63.00	200	Horizontal	Pass
3	5216.000	107.91	-2.61	--	--	Peak	86.00	200	Horizontal	N/A
3**	5216.000	100.90	-2.61	--	--	AV	86.00	200	Horizontal	N/A
4	7712.000	54.43	1.91	74.0	19.57	Peak	203.00	300	Horizontal	Pass
4**	7712.000	45.02	1.91	54.0	8.98	AV	203.00	300	Horizontal	Pass
5	12541.712	51.95	1.20	74.0	22.05	Peak	68.00	100	Horizontal	Pass
5**	12541.712	42.93	1.20	54.0	11.07	AV	68.00	100	Horizontal	Pass
6	15948.037	52.52	1.19	74.0	21.48	Peak	116.00	400	Horizontal	Pass
6**	15948.037	41.12	1.19	54.0	12.88	AV	116.00	400	Horizontal	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1450.800	40.09	-16.91	74.0	33.91	Peak	30.00	200	Vertical	Pass
1**	1450.800	29.29	-16.91	54.0	24.71	AV	30.00	200	Vertical	Pass
2	4294.250	46.98	-4.64	74.0	27.02	Peak	111.00	100	Vertical	Pass
2**	4294.250	38.07	-4.64	54.0	15.93	AV	111.00	100	Vertical	Pass
3	5218.750	96.12	-2.94	--	--	Peak	179.00	100	Vertical	N/A
3**	5218.750	88.95	-2.94	--	--	AV	179.00	100	Vertical	N/A
4	7670.250	53.78	0.78	74.0	20.22	Peak	360.00	200	Vertical	Pass
4**	7670.250	44.35	0.78	54.0	9.65	AV	360.00	200	Vertical	Pass
5	12379.975	52.45	1.00	74.0	21.55	Peak	113.00	150	Vertical	Pass
5**	12379.975	42.39	1.00	54.0	11.61	AV	113.00	150	Vertical	Pass
6	16066.950	53.00	1.31	74.0	21.00	Peak	172.00	100	Vertical	Pass
6**	16066.950	42.55	1.31	54.0	11.45	AV	172.00	100	Vertical	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.300	40.12	-16.93	74.0	33.88	Peak	80.00	100	Horizontal	Pass
1**	1579.300	29.60	-16.93	54.0	24.40	AV	80.00	100	Horizontal	Pass
2	4351.750	47.16	-4.70	74.0	26.84	Peak	181.00	300	Horizontal	Pass
2**	4351.750	37.92	-4.70	54.0	16.08	AV	181.00	300	Horizontal	Pass
3	5239.000	107.40	-2.94	--	--	Peak	295.00	100	Horizontal	N/A
3**	5239.000	100.40	-2.94	--	--	AV	295.00	100	Horizontal	N/A
4	7483.250	53.31	1.17	74.0	20.69	Peak	251.00	300	Horizontal	Pass
4**	7483.250	44.67	1.17	54.0	9.33	AV	251.00	300	Horizontal	Pass
5	12350.050	52.32	0.85	74.0	21.68	Peak	360.00	100	Horizontal	Pass
5**	12350.050	43.05	0.85	54.0	10.95	AV	360.00	100	Horizontal	Pass
6	16166.700	53.09	2.04	74.0	20.91	Peak	248.00	100	Horizontal	Pass
6**	16166.700	43.92	2.04	54.0	10.08	AV	248.00	100	Horizontal	Pass

## 11ac20, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.500	40.80	-17.08	74.0	33.20	Peak	276.00	100	Vertical	Pass
1**	1579.500	33.46	-17.08	54.0	20.54	AV	276.00	100	Vertical	Pass
2	4256.250	47.26	-4.17	74.0	26.74	Peak	87.00	300	Vertical	Pass
2**	4256.250	38.54	-4.17	54.0	15.46	AV	87.00	300	Vertical	Pass
3	5241.000	95.70	-3.09	--	--	Peak	269.00	200	Vertical	N/A
3**	5241.000	87.57	-3.09	--	--	AV	269.00	200	Vertical	N/A
4	7713.500	53.23	1.71	74.0	20.77	Peak	201.00	400	Vertical	Pass
4**	7713.500	44.57	1.71	54.0	9.43	AV	201.00	400	Vertical	Pass
5	12312.762	52.73	0.63	74.0	21.27	Peak	216.00	100	Vertical	Pass
5**	12312.762	42.07	0.63	54.0	11.93	AV	216.00	100	Vertical	Pass
6	16169.062	52.89	2.02	74.0	21.11	Peak	336.00	400	Vertical	Pass
6**	16169.062	44.15	2.02	54.0	9.85	AV	336.00	400	Vertical	Pass

## 11ac40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.400	39.67	-16.85	74.0	34.33	Peak	284.00	400	Horizontal	Pass
1**	1441.400	30.56	-16.85	54.0	23.44	AV	284.00	400	Horizontal	Pass
2	4253.750	47.32	-4.20	74.0	26.68	Peak	0.00	300	Horizontal	Pass
2**	4253.750	38.86	-4.20	54.0	15.14	AV	0.00	300	Horizontal	Pass
3	5192.500	106.44	-2.75	--	--	Peak	81.00	200	Horizontal	N/A
3**	5192.500	98.44	-2.75	--	--	AV	81.00	200	Horizontal	N/A
4	7738.250	53.83	0.16	74.0	20.17	Peak	188.00	200	Horizontal	Pass
4**	7738.250	44.51	0.16	54.0	9.49	AV	188.00	200	Horizontal	Pass
5	12301.600	52.41	0.56	74.0	21.59	Peak	261.00	200	Horizontal	Pass
5**	12301.600	42.15	0.56	54.0	11.85	AV	261.00	200	Horizontal	Pass
6	16169.588	52.69	2.02	74.0	21.31	Peak	53.00	100	Horizontal	Pass
6**	16169.588	44.09	2.02	54.0	9.91	AV	53.00	100	Horizontal	Pass

## 11ac40, U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1580.800	40.47	-17.13	74.0	33.53	Peak	288.00	200	Vertical	Pass
1**	1580.800	29.47	-17.13	54.0	24.53	AV	288.00	200	Vertical	Pass
2	4255.500	47.41	-3.95	74.0	26.59	Peak	40.00	100	Vertical	Pass
2**	4255.500	38.45	-3.95	54.0	15.55	AV	40.00	100	Vertical	Pass
3	5184.250	95.57	-2.43	--	--	Peak	60.00	150	Vertical	N/A
3**	5184.250	86.89	-2.43	--	--	AV	60.00	150	Vertical	N/A
4	7484.750	54.01	1.30	74.0	19.99	Peak	0.00	400	Vertical	Pass
4**	7484.750	44.12	1.30	54.0	9.88	AV	0.00	400	Vertical	Pass
5	12377.838	52.58	0.99	74.0	21.42	Peak	313.00	200	Vertical	Pass
5**	12377.838	43.20	0.99	54.0	10.80	AV	313.00	200	Vertical	Pass
6	16151.737	52.12	2.14	74.0	21.88	Peak	148.00	100	Vertical	Pass
6**	16151.737	44.09	2.14	54.0	9.91	AV	148.00	100	Vertical	Pass

## 11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.900	40.20	-17.22	74.0	33.80	Peak	288.00	400	Horizontal	Pass
1**	1437.900	29.39	-17.22	54.0	24.61	AV	288.00	400	Horizontal	Pass
2	4225.500	46.66	-5.36	74.0	27.34	Peak	360.00	300	Horizontal	Pass
2**	4225.500	37.82	-5.36	54.0	16.18	AV	360.00	300	Horizontal	Pass
3	5228.500	105.07	-3.28	--	--	Peak	293.00	100	Horizontal	N/A
3**	5228.500	97.86	-3.28	--	--	AV	293.00	100	Horizontal	N/A
4	7360.000	53.23	0.78	74.0	20.77	Peak	230.00	100	Horizontal	Pass
4**	7360.000	44.04	0.78	54.0	9.96	AV	230.00	100	Horizontal	Pass
5	12427.000	52.55	1.07	74.0	21.45	Peak	99.00	100	Horizontal	Pass
5**	12427.000	42.83	1.07	54.0	11.17	AV	99.00	100	Horizontal	Pass
6	16176.938	52.78	1.97	74.0	21.22	Peak	362.00	100	Horizontal	Pass
6**	16176.938	44.17	1.97	54.0	9.83	AV	362.00	100	Horizontal	Pass

## 11ac40, U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1583.800	41.06	-17.08	74.0	32.94	Peak	281.00	200	Vertical	Pass
1**	1583.800	30.99	-17.08	54.0	23.01	AV	281.00	200	Vertical	Pass
2	4286.750	48.78	-4.57	74.0	25.22	Peak	297.00	200	Vertical	Pass
2**	4286.750	37.94	-4.57	54.0	16.06	AV	297.00	200	Vertical	Pass
3	5231.250	94.83	-2.98	--	--	Peak	60.00	150	Vertical	N/A
3**	5231.250	86.17	-2.98	--	--	AV	60.00	150	Vertical	N/A
4	7362.250	53.83	0.76	74.0	20.17	Peak	80.00	400	Vertical	Pass
4**	7362.250	44.26	0.76	54.0	9.74	AV	80.00	400	Vertical	Pass
5	12370.475	52.13	0.95	74.0	21.87	Peak	84.00	200	Vertical	Pass
5**	12370.475	43.92	0.95	54.0	10.08	AV	84.00	200	Vertical	Pass
6	16168.537	52.62	2.03	74.0	21.38	Peak	0.00	400	Vertical	Pass
6**	16168.537	43.51	2.03	54.0	10.49	AV	0.00	400	Vertical	Pass

## 11ac80, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1583.800	40.70	-17.08	74.0	33.30	Peak	90.00	300	Horizontal	Pass
1**	1583.800	30.41	-17.08	54.0	23.59	AV	90.00	300	Horizontal	Pass
2	4263.000	47.10	-5.04	74.0	26.90	Peak	16.00	100	Horizontal	Pass
2**	4263.000	37.55	-5.04	54.0	16.45	AV	16.00	100	Horizontal	Pass
3	5207.750	104.03	-2.15	--	--	Peak	82.00	200	Horizontal	N/A
3**	5207.750	95.96	-2.15	--	--	AV	82.00	200	Horizontal	N/A
4	7635.750	54.03	0.18	74.0	19.97	Peak	360.00	300	Horizontal	Pass
4**	7635.750	43.87	0.18	54.0	10.13	AV	360.00	300	Horizontal	Pass
5	12323.450	52.09	0.69	74.0	21.91	Peak	252.00	150	Horizontal	Pass
5**	12323.450	42.47	0.69	54.0	11.53	AV	252.00	150	Horizontal	Pass
6	16169.326	53.36	2.02	74.0	20.64	Peak	67.00	400	Horizontal	Pass
6**	16169.326	44.13	2.02	54.0	9.87	AV	67.00	400	Horizontal	Pass

## 11ac80, U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.700	40.89	-17.12	74.0	33.11	Peak	286.00	100	Vertical	Pass
1**	1579.700	31.59	-17.12	54.0	22.41	AV	286.00	100	Vertical	Pass
2	4204.500	46.88	-5.22	74.0	27.12	Peak	38.00	150	Vertical	Pass
2**	4204.500	37.67	-5.22	54.0	16.33	AV	38.00	150	Vertical	Pass
3	5207.000	92.06	-2.32	--	--	Peak	60.00	100	Vertical	N/A
3**	5207.000	84.23	-2.32	--	--	AV	60.00	100	Vertical	N/A
4	7737.250	53.26	0.09	74.0	20.74	Peak	145.00	200	Vertical	Pass
4**	7737.250	43.76	0.09	54.0	10.24	AV	145.00	200	Vertical	Pass
5	12343.875	52.13	0.81	74.0	21.87	Peak	320.00	100	Vertical	Pass
5**	12343.875	42.75	0.81	54.0	11.25	AV	320.00	100	Vertical	Pass
6	16159.350	52.33	2.09	74.0	21.67	Peak	56.00	200	Vertical	Pass
6**	16159.350	43.81	2.09	54.0	10.19	AV	56.00	200	Vertical	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.500	39.47	-17.03	74.0	34.53	Peak	291.00	100	Horizontal	Pass
1**	1438.500	31.29	-17.03	54.0	22.71	AV	291.00	100	Horizontal	Pass
2	4361.750	47.59	-4.96	74.0	26.41	Peak	123.00	400	Horizontal	Pass
2**	4361.750	38.16	-4.96	54.0	15.84	AV	123.00	400	Horizontal	Pass
3	5746.750	104.32	-2.01	--	--	Peak	60.00	100	Horizontal	N/A
3**	5746.750	96.27	-2.01	--	--	AV	60.00	100	Horizontal	N/A
4	7604.250	53.31	0.71	74.0	20.69	Peak	317.00	100	Horizontal	Pass
4**	7604.250	44.08	0.71	54.0	9.92	AV	317.00	100	Horizontal	Pass
5	12420.825	52.59	1.08	74.0	21.41	Peak	356.00	200	Horizontal	Pass
5**	12420.825	42.68	1.08	54.0	11.32	AV	356.00	200	Horizontal	Pass
6	16090.050	52.72	1.62	74.0	21.28	Peak	19.00	200	Horizontal	Pass
6**	16090.050	43.36	1.62	54.0	10.64	AV	19.00	200	Horizontal	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.200	40.10	-17.11	74.0	33.90	Peak	288.00	200	Vertical	Pass
1**	1584.200	30.42	-17.11	54.0	23.58	AV	288.00	200	Vertical	Pass
2	4271.000	47.23	-4.98	74.0	26.77	Peak	40.00	300	Vertical	Pass
2**	4271.000	37.92	-4.98	54.0	16.08	AV	40.00	300	Vertical	Pass
3	5746.000	96.43	-2.00	--	--	Peak	191.00	200	Vertical	N/A
3**	5746.000	88.29	-2.00	--	--	AV	191.00	200	Vertical	N/A
4	7707.000	53.67	1.71	74.0	20.33	Peak	360.00	400	Vertical	Pass
4**	7707.000	43.40	1.71	54.0	10.60	AV	360.00	400	Vertical	Pass
5	12284.500	52.57	0.73	74.0	21.43	Peak	0.00	150	Vertical	Pass
5**	12284.500	42.67	0.73	54.0	11.33	AV	0.00	150	Vertical	Pass
6	16092.937	52.67	1.66	74.0	21.33	Peak	195.00	300	Vertical	Pass
6**	16092.937	43.16	1.66	54.0	10.84	AV	195.00	300	Vertical	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.500	40.42	-16.84	74.0	33.58	Peak	288.00	400	Horizontal	Pass
1**	1442.500	31.28	-16.84	54.0	22.72	AV	288.00	400	Horizontal	Pass
2	4287.000	47.40	-4.67	74.0	26.60	Peak	213.00	100	Horizontal	Pass
2**	4287.000	38.80	-4.67	54.0	15.20	AV	213.00	100	Horizontal	Pass
3	5784.000	104.90	-2.66	--	--	Peak	324.00	150	Horizontal	N/A
3**	5784.000	97.52	-2.66	--	--	AV	324.00	150	Horizontal	N/A
4	7361.500	53.85	0.52	74.0	20.15	Peak	60.00	300	Horizontal	Pass
4**	7361.500	43.78	0.52	54.0	10.22	AV	60.00	300	Horizontal	Pass
5	12427.950	52.16	1.07	74.0	21.84	Peak	179.00	200	Horizontal	Pass
5**	12427.950	43.46	1.07	54.0	10.54	AV	179.00	200	Horizontal	Pass
6	16174.312	53.80	1.99	74.0	20.20	Peak	151.00	100	Horizontal	Pass
6**	16174.312	45.49	1.99	54.0	8.51	AV	151.00	100	Horizontal	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1620.300	40.55	-16.89	74.0	33.45	Peak	325.00	200	Vertical	Pass
1**	1620.300	34.22	-16.89	54.0	19.78	AV	325.00	200	Vertical	Pass
2	4167.250	47.35	-5.37	74.0	26.65	Peak	127.00	200	Vertical	Pass
2**	4167.250	38.32	-5.37	54.0	15.68	AV	127.00	200	Vertical	Pass
3	5789.250	96.53	-2.58	--	--	Peak	191.00	150	Vertical	N/A
3**	5789.250	88.15	-2.58	--	--	AV	191.00	150	Vertical	N/A
4	7362.250	53.81	0.76	74.0	20.19	Peak	360.00	300	Vertical	Pass
4**	7362.250	43.80	0.76	54.0	10.20	AV	360.00	300	Vertical	Pass
5	12401.588	52.55	1.10	74.0	21.45	Peak	349.00	100	Vertical	Pass
5**	12401.588	43.24	1.10	54.0	10.76	AV	349.00	100	Vertical	Pass
6	15829.387	52.47	1.40	74.0	21.53	Peak	0.00	300	Vertical	Pass
6**	15829.387	42.87	1.40	54.0	11.13	AV	0.00	300	Vertical	Pass



## 11a, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1445.300	39.58	-17.23	74.0	34.42	Peak	60.00	400	Horizontal	Pass
1**	1445.300	30.91	-17.23	54.0	23.09	AV	60.00	400	Horizontal	Pass
2	4288.250	47.84	-4.75	74.0	26.16	Peak	242.00	400	Horizontal	Pass
2**	4288.250	38.22	-4.75	54.0	15.78	AV	242.00	400	Horizontal	Pass
3	5828.000	106.79	-2.57	--	--	Peak	307.00	100	Horizontal	N/A
3**	5828.000	97.87	-2.57	--	--	AV	307.00	100	Horizontal	N/A
4	7368.000	53.75	0.88	74.0	20.25	Peak	82.00	100	Horizontal	Pass
4**	7368.000	44.16	0.88	54.0	9.84	AV	82.00	100	Horizontal	Pass
5	12537.201	52.20	1.22	74.0	21.80	Peak	221.00	100	Horizontal	Pass
5**	12537.201	42.97	1.22	54.0	11.03	AV	221.00	100	Horizontal	Pass
6	16192.950	52.56	1.86	74.0	21.44	Peak	146.00	100	Horizontal	Pass
6**	16192.950	43.03	1.86	54.0	10.97	AV	146.00	100	Horizontal	Pass

## 11a, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1582.300	40.95	-16.82	74.0	33.05	Peak	242.00	100	Vertical	Pass
1**	1582.300	30.26	-16.82	54.0	23.74	AV	242.00	100	Vertical	Pass
2	4279.250	47.05	-4.73	74.0	26.95	Peak	82.00	200	Vertical	Pass
2**	4279.250	38.03	-4.73	54.0	15.97	AV	82.00	200	Vertical	Pass
3	5827.750	98.95	-2.57	--	--	Peak	193.00	100	Vertical	N/A
3**	5827.750	90.34	-2.57	--	--	AV	193.00	100	Vertical	N/A
4	7721.750	53.69	0.97	74.0	20.31	Peak	193.00	400	Vertical	Pass
4**	7721.750	44.48	0.97	54.0	9.52	AV	193.00	400	Vertical	Pass
5	12368.338	52.52	0.94	74.0	21.48	Peak	218.00	100	Vertical	Pass
5**	12368.338	43.40	0.94	54.0	10.60	AV	218.00	100	Vertical	Pass
6	16148.588	52.34	2.14	74.0	21.66	Peak	130.00	100	Vertical	Pass
6**	16148.588	44.23	2.14	54.0	9.77	AV	130.00	100	Vertical	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.300	39.50	-16.85	74.0	34.50	Peak	292.00	400	Horizontal	Pass
1**	1443.300	31.37	-16.85	54.0	22.63	AV	292.00	400	Horizontal	Pass
2	4334.250	47.42	-4.79	74.0	26.58	Peak	232.00	200	Horizontal	Pass
2**	4334.250	37.66	-4.79	54.0	16.34	AV	232.00	200	Horizontal	Pass
3	5743.750	104.21	-2.18	--	--	Peak	320.00	100	Horizontal	N/A
3**	5743.750	96.82	-2.18	--	--	AV	320.00	100	Horizontal	N/A
4	7722.250	53.91	1.31	74.0	20.09	Peak	212.00	200	Horizontal	Pass
4**	7722.250	44.22	1.31	54.0	9.78	AV	212.00	200	Horizontal	Pass
5	12343.875	52.43	0.81	74.0	21.57	Peak	55.00	100	Horizontal	Pass
5**	12343.875	42.82	0.81	54.0	11.18	AV	55.00	100	Horizontal	Pass
6	16020.750	53.19	1.19	74.0	20.81	Peak	58.00	300	Horizontal	Pass
6**	16020.750	43.66	1.19	54.0	10.34	AV	58.00	300	Horizontal	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.600	40.84	-17.11	74.0	33.16	Peak	280.00	300	Vertical	Pass
1**	1579.600	32.52	-17.11	54.0	21.48	AV	280.00	300	Vertical	Pass
2	3998.250	47.61	-6.02	74.0	26.39	Peak	145.00	300	Vertical	Pass
2**	3998.250	38.38	-6.02	54.0	15.62	AV	145.00	300	Vertical	Pass
3	5745.750	95.24	-2.08	--	--	Peak	295.00	200	Vertical	N/A
3**	5745.750	88.43	-2.08	--	--	AV	295.00	200	Vertical	N/A
4	7656.250	53.26	1.18	74.0	20.74	Peak	295.00	200	Vertical	Pass
4**	7656.250	44.14	1.18	54.0	9.86	AV	295.00	200	Vertical	Pass
5	12408.950	52.86	1.09	74.0	21.14	Peak	181.00	150	Vertical	Pass
5**	12408.950	43.00	1.09	54.0	11.00	AV	181.00	150	Vertical	Pass
6	16165.650	53.08	2.05	74.0	20.92	Peak	266.00	200	Vertical	Pass
6**	16165.650	43.98	2.05	54.0	10.02	AV	266.00	200	Vertical	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.400	40.38	-16.85	74.0	33.62	Peak	288.00	200	Horizontal	Pass
1**	1441.400	30.33	-16.85	54.0	23.67	AV	288.00	200	Horizontal	Pass
2	4288.000	47.37	-4.55	74.0	26.63	Peak	319.00	100	Horizontal	Pass
2**	4288.000	37.43	-4.55	54.0	16.57	AV	319.00	100	Horizontal	Pass
3	5784.250	104.43	-2.76	--	--	Peak	341.00	200	Horizontal	N/A
3**	5784.250	97.72	-2.76	--	--	AV	341.00	200	Horizontal	N/A
4	7629.500	53.67	0.06	74.0	20.33	Peak	190.00	100	Horizontal	Pass
4**	7629.500	43.56	0.06	54.0	10.44	AV	190.00	100	Horizontal	Pass
5	12414.888	52.80	1.09	74.0	21.20	Peak	194.00	100	Horizontal	Pass
5**	12414.888	44.77	1.09	54.0	9.23	AV	194.00	100	Horizontal	Pass
6	16174.050	52.67	1.99	74.0	21.33	Peak	26.00	100	Horizontal	Pass
6**	16174.050	43.14	1.99	54.0	10.86	AV	26.00	100	Horizontal	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.100	40.81	-17.11	74.0	33.19	Peak	281.00	400	Vertical	Pass
1**	1584.100	32.55	-17.11	54.0	21.45	AV	281.00	400	Vertical	Pass
2	4363.250	47.35	-5.02	74.0	26.65	Peak	149.00	200	Vertical	Pass
2**	4363.250	38.86	-5.02	54.0	15.14	AV	149.00	200	Vertical	Pass
3	5786.250	97.30	-2.30	--	--	Peak	171.00	100	Vertical	N/A
3**	5786.250	90.06	-2.30	--	--	AV	171.00	100	Vertical	N/A
4	7704.250	53.45	1.69	74.0	20.55	Peak	299.00	100	Vertical	Pass
4**	7704.250	44.46	1.69	54.0	9.54	AV	299.00	100	Vertical	Pass
5	12333.662	52.58	0.75	74.0	21.42	Peak	334.00	150	Vertical	Pass
5**	12333.662	43.50	0.75	54.0	10.50	AV	334.00	150	Vertical	Pass
6	16168.013	53.24	2.03	74.0	20.76	Peak	310.00	300	Vertical	Pass
6**	16168.013	44.14	2.03	54.0	9.86	AV	310.00	300	Vertical	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.900	40.38	-16.91	74.0	33.62	Peak	279.00	200	Horizontal	Pass
1**	1443.900	30.60	-16.91	54.0	23.40	AV	279.00	200	Horizontal	Pass
2	4255.250	47.94	-4.03	74.0	26.06	Peak	171.00	100	Horizontal	Pass
2**	4255.250	38.64	-4.03	54.0	15.36	AV	171.00	100	Horizontal	Pass
3	5825.750	105.59	-2.64	--	--	Peak	326.00	150	Horizontal	N/A
3**	5825.750	98.52	-2.64	--	--	AV	326.00	150	Horizontal	N/A
4	7590.500	53.22	0.89	74.0	20.78	Peak	360.00	200	Horizontal	Pass
4**	7590.500	44.29	0.89	54.0	9.71	AV	360.00	200	Horizontal	Pass
5	12409.425	53.13	1.09	74.0	20.87	Peak	63.00	100	Horizontal	Pass
5**	12409.425	43.53	1.09	54.0	10.47	AV	63.00	100	Horizontal	Pass
6	16123.650	53.15	1.94	74.0	20.85	Peak	82.00	400	Horizontal	Pass
6**	16123.650	42.48	1.94	54.0	11.52	AV	82.00	400	Horizontal	Pass

## 11n20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1588.400	40.71	-17.29	74.0	33.29	Peak	286.00	300	Vertical	Pass
1**	1588.400	29.86	-17.29	54.0	24.14	AV	286.00	300	Vertical	Pass
2	3994.500	47.23	-6.03	74.0	26.77	Peak	145.00	100	Vertical	Pass
2**	3994.500	37.11	-6.03	54.0	16.89	AV	145.00	100	Vertical	Pass
3	5823.750	98.72	-2.78	--	--	Peak	190.00	150	Vertical	N/A
3**	5823.750	92.30	-2.78	--	--	AV	190.00	150	Vertical	N/A
4	7357.250	53.21	0.91	74.0	20.79	Peak	190.00	200	Vertical	Pass
4**	7357.250	44.31	0.91	54.0	9.69	AV	190.00	200	Vertical	Pass
5	12448.612	52.16	1.04	74.0	21.84	Peak	261.00	100	Vertical	Pass
5**	12448.612	42.54	1.04	54.0	11.46	AV	261.00	100	Vertical	Pass
6	16156.987	52.99	2.10	74.0	21.01	Peak	44.00	400	Vertical	Pass
6**	16156.987	43.32	2.10	54.0	10.68	AV	44.00	400	Vertical	Pass

## 11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.600	39.73	-16.95	74.0	34.27	Peak	288.00	100	Horizontal	Pass
1**	1440.600	30.18	-16.95	54.0	23.82	AV	288.00	100	Horizontal	Pass
2	4391.250	47.50	-5.25	74.0	26.50	Peak	321.00	100	Horizontal	Pass
2**	4391.250	37.48	-5.25	54.0	16.52	AV	321.00	100	Horizontal	Pass
3	5750.750	102.54	-2.12	--	--	Peak	321.00	200	Horizontal	N/A
3**	5750.750	95.23	-2.12	--	--	AV	321.00	200	Horizontal	N/A
4	7742.000	53.78	0.45	74.0	20.22	Peak	321.00	200	Horizontal	Pass
4**	7742.000	44.65	0.45	54.0	9.35	AV	321.00	200	Horizontal	Pass
5	12382.349	52.78	1.01	74.0	21.22	Peak	82.00	100	Horizontal	Pass
5**	12382.349	43.10	1.01	54.0	10.90	AV	82.00	100	Horizontal	Pass
6	16170.637	52.83	2.01	74.0	21.17	Peak	306.00	200	Horizontal	Pass
6**	16170.637	44.62	2.01	54.0	9.38	AV	306.00	200	Horizontal	Pass

## 11n40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1580.000	40.80	-17.13	74.0	33.20	Peak	271.00	100	Vertical	Pass
1**	1580.000	29.73	-17.13	54.0	24.27	AV	271.00	100	Vertical	Pass
2	4279.750	47.48	-4.66	74.0	26.52	Peak	115.00	200	Vertical	Pass
2**	4279.750	38.09	-4.66	54.0	15.91	AV	115.00	200	Vertical	Pass
3	5758.250	94.26	-2.04	--	--	Peak	212.00	200	Vertical	N/A
3**	5758.250	87.64	-2.04	--	--	AV	212.00	200	Vertical	N/A
4	7714.500	53.64	1.63	74.0	20.36	Peak	91.00	400	Vertical	Pass
4**	7714.500	45.53	1.63	54.0	8.47	AV	91.00	400	Vertical	Pass
5	11799.050	53.49	-0.15	74.0	20.51	Peak	204.00	150	Vertical	Pass
5**	11799.050	42.45	-0.15	54.0	11.55	AV	204.00	150	Vertical	Pass
6	16167.750	53.11	2.03	74.0	20.89	Peak	299.00	100	Vertical	Pass
6**	16167.750	43.90	2.03	54.0	10.10	AV	299.00	100	Vertical	Pass

## 11n40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1449.700	39.95	-16.92	74.0	34.05	Peak	286.00	300	Horizontal	Pass
1**	1449.700	32.87	-16.92	54.0	21.13	AV	286.00	300	Horizontal	Pass
2	4350.750	47.65	-4.64	74.0	26.35	Peak	237.00	300	Horizontal	Pass
2**	4350.750	38.22	-4.64	54.0	15.78	AV	237.00	300	Horizontal	Pass
3	5796.250	103.81	-2.11	--	--	Peak	65.00	100	Horizontal	N/A
3**	5796.250	96.95	-2.11	--	--	AV	65.00	100	Horizontal	N/A
4	7742.250	53.89	0.46	74.0	20.11	Peak	41.00	300	Horizontal	Pass
4**	7742.250	44.47	0.46	54.0	9.53	AV	41.00	300	Horizontal	Pass
5	12421.537	52.28	1.08	74.0	21.72	Peak	179.00	150	Horizontal	Pass
5**	12421.537	43.15	1.08	54.0	10.85	AV	179.00	150	Horizontal	Pass
6	16176.675	53.04	1.97	74.0	20.96	Peak	54.00	200	Horizontal	Pass
6**	16176.675	43.90	1.97	54.0	10.10	AV	54.00	200	Horizontal	Pass

## 11n40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1585.100	40.97	-17.08	74.0	33.03	Peak	281.00	200	Vertical	Pass
1**	1585.100	31.85	-17.08	54.0	22.15	AV	281.00	200	Vertical	Pass
2	4292.750	47.90	-4.73	74.0	26.10	Peak	273.00	100	Vertical	Pass
2**	4292.750	38.15	-4.73	54.0	15.85	AV	273.00	100	Vertical	Pass
3	5797.750	96.30	-2.23	--	--	Peak	198.00	100	Vertical	N/A
3**	5797.750	89.01	-2.23	--	--	AV	198.00	100	Vertical	N/A
4	7638.000	52.95	0.37	74.0	21.05	Peak	273.00	100	Vertical	Pass
4**	7638.000	44.05	0.37	54.0	9.95	AV	273.00	100	Vertical	Pass
5	12523.425	52.22	1.30	74.0	21.78	Peak	237.00	200	Vertical	Pass
5**	12523.425	42.92	1.30	54.0	11.08	AV	237.00	200	Vertical	Pass
6	16026.000	52.37	1.17	74.0	21.63	Peak	54.00	300	Vertical	Pass
6**	16026.000	43.40	1.17	54.0	10.60	AV	54.00	300	Vertical	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1441.000	39.74	-16.63	74.0	34.26	Peak	286.00	100	Horizontal	Pass
1**	1441.000	31.14	-16.63	54.0	22.86	AV	286.00	100	Horizontal	Pass
2	4286.750	47.44	-4.57	74.0	26.56	Peak	144.00	400	Horizontal	Pass
2**	4286.750	38.00	-4.57	54.0	16.00	AV	144.00	400	Horizontal	Pass
3	5746.750	103.65	-2.01	--	--	Peak	69.00	100	Horizontal	N/A
3**	5746.750	97.52	-2.01	--	--	AV	69.00	100	Horizontal	N/A
4	7657.250	53.36	1.36	74.0	20.64	Peak	0.00	150	Horizontal	Pass
4**	7657.250	43.68	1.36	54.0	10.32	AV	0.00	150	Horizontal	Pass
5	12377.838	52.56	0.99	74.0	21.44	Peak	70.00	200	Horizontal	Pass
5**	12377.838	42.79	0.99	54.0	11.21	AV	70.00	200	Horizontal	Pass
6	16178.250	53.54	1.96	74.0	20.46	Peak	42.00	300	Horizontal	Pass
6**	16178.250	43.86	1.96	54.0	10.14	AV	42.00	300	Horizontal	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1620.100	40.71	-16.87	74.0	33.29	Peak	271.00	100	Vertical	Pass
1**	1620.100	34.64	-16.87	54.0	19.36	AV	271.00	100	Vertical	Pass
2	4209.000	47.22	-5.25	74.0	26.78	Peak	45.00	400	Vertical	Pass
2**	4209.000	38.02	-5.25	54.0	15.98	AV	45.00	400	Vertical	Pass
3	5747.250	96.57	-2.05	--	--	Peak	188.00	100	Vertical	N/A
3**	5747.250	88.99	-2.05	--	--	AV	188.00	100	Vertical	N/A
4	7484.250	53.28	1.00	74.0	20.72	Peak	67.00	100	Vertical	Pass
4**	7484.250	43.86	1.00	54.0	10.14	AV	67.00	100	Vertical	Pass
5	12357.175	52.86	0.88	74.0	21.14	Peak	192.00	200	Vertical	Pass
5**	12357.175	44.41	0.88	54.0	9.59	AV	192.00	200	Vertical	Pass
6	16166.175	53.13	2.04	74.0	20.87	Peak	21.00	400	Vertical	Pass
6**	16166.175	44.09	2.04	54.0	9.91	AV	21.00	400	Vertical	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1447.400	39.46	-16.82	74.0	34.54	Peak	288.00	300	Horizontal	Pass
1**	1447.400	31.42	-16.82	54.0	22.58	AV	288.00	300	Horizontal	Pass
2	4258.750	46.75	-4.36	74.0	27.25	Peak	338.00	100	Horizontal	Pass
2**	4258.750	38.98	-4.36	54.0	15.02	AV	338.00	100	Horizontal	Pass
3	5786.750	104.37	-2.38	--	--	Peak	312.00	150	Horizontal	N/A
3**	5786.750	96.96	-2.38	--	--	AV	312.00	150	Horizontal	N/A
4	7378.250	53.09	0.33	74.0	20.91	Peak	360.00	100	Horizontal	Pass
4**	7378.250	43.52	0.33	54.0	10.48	AV	360.00	100	Horizontal	Pass
5	12315.612	51.85	0.65	74.0	22.15	Peak	83.00	200	Horizontal	Pass
5**	12315.612	42.44	0.65	54.0	11.56	AV	83.00	200	Horizontal	Pass
6	16179.037	52.55	1.96	74.0	21.45	Peak	0.00	100	Horizontal	Pass
6**	16179.037	42.97	1.96	54.0	11.03	AV	0.00	100	Horizontal	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.000	40.49	-17.10	74.0	33.51	Peak	284.00	100	Vertical	Pass
1**	1584.000	30.03	-17.10	54.0	23.97	AV	284.00	100	Vertical	Pass
2	4382.000	47.39	-5.36	74.0	26.61	Peak	71.00	100	Vertical	Pass
2**	4382.000	37.69	-5.36	54.0	16.31	AV	71.00	100	Vertical	Pass
3	5788.500	97.10	-2.32	--	--	Peak	195.00	200	Vertical	N/A
3**	5788.500	89.28	-2.32	--	--	AV	195.00	200	Vertical	N/A
4	7645.750	53.35	1.10	74.0	20.65	Peak	195.00	300	Vertical	Pass
4**	7645.750	44.88	1.10	54.0	9.12	AV	195.00	300	Vertical	Pass
5	12406.100	52.47	1.10	74.0	21.53	Peak	44.00	200	Vertical	Pass
5**	12406.100	43.64	1.10	54.0	10.36	AV	44.00	200	Vertical	Pass
6	16159.350	53.11	2.09	74.0	20.89	Peak	17.00	200	Vertical	Pass
6**	16159.350	44.37	2.09	54.0	9.63	AV	17.00	200	Vertical	Pass



## 11ac20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.600	41.36	-16.86	74.0	32.64	Peak	284.00	100	Horizontal	Pass
1**	1443.600	31.55	-16.86	54.0	22.45	AV	284.00	100	Horizontal	Pass
2	4394.750	47.20	-4.64	74.0	26.80	Peak	0.00	400	Horizontal	Pass
2**	4394.750	37.90	-4.64	54.0	16.10	AV	0.00	400	Horizontal	Pass
3	5824.250	105.67	-2.60	--	--	Peak	65.00	100	Horizontal	N/A
3**	5824.250	98.27	-2.60	--	--	AV	65.00	100	Horizontal	N/A
4	7497.000	53.21	0.60	74.0	20.79	Peak	111.00	100	Horizontal	Pass
4**	7497.000	44.12	0.60	54.0	9.88	AV	111.00	100	Horizontal	Pass
5	11782.901	52.36	-0.16	74.0	21.64	Peak	233.00	100	Horizontal	Pass
5**	11782.901	42.86	-0.16	54.0	11.14	AV	233.00	100	Horizontal	Pass
6	16158.037	52.54	2.10	74.0	21.46	Peak	287.00	300	Horizontal	Pass
6**	16158.037	44.01	2.10	54.0	9.99	AV	287.00	300	Horizontal	Pass

## 11ac20, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1587.500	41.49	-16.95	74.0	32.51	Peak	283.00	400	Vertical	Pass
1**	1587.500	29.98	-16.95	54.0	24.02	AV	283.00	400	Vertical	Pass
2	4355.750	47.08	-4.82	74.0	26.92	Peak	38.00	400	Vertical	Pass
2**	4355.750	38.37	-4.82	54.0	15.63	AV	38.00	400	Vertical	Pass
3	5827.000	97.47	-2.45	--	--	Peak	203.00	200	Vertical	N/A
3**	5827.000	90.27	-2.45	--	--	AV	203.00	200	Vertical	N/A
4	7617.500	53.58	0.47	74.0	20.42	Peak	162.00	100	Vertical	Pass
4**	7617.500	43.62	0.47	54.0	10.38	AV	162.00	100	Vertical	Pass
5	12316.088	52.18	0.65	74.0	21.82	Peak	271.00	100	Vertical	Pass
5**	12316.088	42.10	0.65	54.0	11.90	AV	271.00	100	Vertical	Pass
6	16067.474	53.17	1.32	74.0	20.83	Peak	0.00	300	Vertical	Pass
6**	16067.474	42.64	1.32	54.0	11.36	AV	0.00	300	Vertical	Pass

## 11ac40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1452.100	40.33	-16.91	74.0	33.67	Peak	291.00	300	Horizontal	Pass
1**	1452.100	29.95	-16.91	54.0	24.05	AV	291.00	300	Horizontal	Pass
2	4270.750	47.29	-5.00	74.0	26.71	Peak	230.00	300	Horizontal	Pass
2**	4270.750	38.43	-5.00	54.0	15.57	AV	230.00	300	Horizontal	Pass
3	5751.000	102.47	-2.15	--	--	Peak	69.00	100	Horizontal	N/A
3**	5751.000	94.26	-2.15	--	--	AV	69.00	100	Horizontal	N/A
4	7594.500	53.69	0.98	74.0	20.31	Peak	302.00	200	Horizontal	Pass
4**	7594.500	43.89	0.98	54.0	10.11	AV	302.00	200	Horizontal	Pass
5	12429.612	52.16	1.07	74.0	21.84	Peak	126.00	100	Horizontal	Pass
5**	12429.612	43.11	1.07	54.0	10.89	AV	126.00	100	Horizontal	Pass
6	16100.813	53.08	1.76	74.0	20.92	Peak	40.00	300	Horizontal	Pass
6**	16100.813	43.32	1.76	54.0	10.68	AV	40.00	300	Horizontal	Pass

## 11ac40, U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.800	40.97	-17.12	74.0	33.03	Peak	281.00	300	Vertical	Pass
1**	1579.800	31.66	-17.12	54.0	22.34	AV	281.00	300	Vertical	Pass
2	4261.500	47.13	-4.57	74.0	26.87	Peak	202.00	400	Vertical	Pass
2**	4261.500	37.85	-4.57	54.0	16.15	AV	202.00	400	Vertical	Pass
3	5759.000	95.28	-2.26	--	--	Peak	202.00	100	Vertical	N/A
3**	5759.000	87.22	-2.26	--	--	AV	202.00	100	Vertical	N/A
4	7686.000	53.91	1.48	74.0	20.09	Peak	57.00	300	Vertical	Pass
4**	7686.000	43.09	1.48	54.0	10.91	AV	57.00	300	Vertical	Pass
5	12449.563	52.59	1.04	74.0	21.41	Peak	360.00	100	Vertical	Pass
5**	12449.563	43.30	1.04	54.0	10.70	AV	360.00	100	Vertical	Pass
6	16126.012	52.25	1.96	74.0	21.75	Peak	264.00	200	Vertical	Pass
6**	16126.012	43.43	1.96	54.0	10.57	AV	264.00	200	Vertical	Pass

## 11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.500	40.77	-16.85	74.0	33.23	Peak	282.00	300	Horizontal	Pass
1**	1443.500	31.00	-16.85	54.0	23.00	AV	282.00	300	Horizontal	Pass
2	4364.500	47.12	-4.68	74.0	26.88	Peak	0.00	400	Horizontal	Pass
2**	4364.500	38.27	-4.68	54.0	15.73	AV	0.00	400	Horizontal	Pass
3	5791.250	104.40	-2.30	--	--	Peak	333.00	100	Horizontal	N/A
3**	5791.250	95.92	-2.30	--	--	AV	333.00	100	Horizontal	N/A
4	7486.000	53.60	1.41	74.0	20.40	Peak	183.00	300	Horizontal	Pass
4**	7486.000	44.67	1.41	54.0	9.33	AV	183.00	300	Horizontal	Pass
5	12314.900	52.78	0.64	74.0	21.22	Peak	128.00	150	Horizontal	Pass
5**	12314.900	42.94	0.64	54.0	11.06	AV	128.00	150	Horizontal	Pass
6	16166.175	53.36	2.04	74.0	20.64	Peak	204.00	100	Horizontal	Pass
6**	16166.175	43.96	2.04	54.0	10.04	AV	204.00	100	Horizontal	Pass

## 11ac40, U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1584.600	40.94	-17.04	74.0	33.06	Peak	271.00	400	Vertical	Pass
1**	1584.600	30.47	-17.04	54.0	23.53	AV	271.00	400	Vertical	Pass
2	3985.750	47.52	-5.62	74.0	26.48	Peak	162.00	300	Vertical	Pass
2**	3985.750	38.32	-5.62	54.0	15.68	AV	162.00	300	Vertical	Pass
3	5797.250	96.46	-2.36	--	--	Peak	205.00	100	Vertical	N/A
3**	5797.250	87.71	-2.36	--	--	AV	205.00	100	Vertical	N/A
4	7629.500	53.99	0.06	74.0	20.01	Peak	0.00	100	Vertical	Pass
4**	7629.500	43.76	0.06	54.0	10.24	AV	0.00	100	Vertical	Pass
5	12442.200	52.96	1.05	74.0	21.04	Peak	235.00	150	Vertical	Pass
5**	12442.200	41.99	1.05	54.0	12.01	AV	235.00	150	Vertical	Pass
6	15559.800	52.75	1.10	74.0	21.25	Peak	183.00	300	Vertical	Pass
6**	15559.800	42.02	1.10	54.0	11.98	AV	183.00	300	Vertical	Pass

## 11ac80, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.800	39.91	-16.89	74.0	34.09	Peak	283.00	400	Horizontal	Pass
1**	1443.800	30.13	-16.89	54.0	23.87	AV	283.00	400	Horizontal	Pass
2	4379.000	47.34	-5.06	74.0	26.66	Peak	234.00	400	Horizontal	Pass
2**	4379.000	38.18	-5.06	54.0	15.82	AV	234.00	400	Horizontal	Pass
3	5779.250	100.35	-2.84	--	--	Peak	67.00	200	Horizontal	N/A
3**	5779.250	92.00	-2.84	--	--	AV	67.00	200	Horizontal	N/A
4	7317.000	53.31	0.60	74.0	20.69	Peak	67.00	400	Horizontal	Pass
4**	7317.000	44.41	0.60	54.0	9.59	AV	67.00	400	Horizontal	Pass
5	12444.812	52.19	1.05	74.0	21.81	Peak	157.00	150	Horizontal	Pass
5**	12444.812	42.16	1.05	54.0	11.84	AV	157.00	150	Horizontal	Pass
6	16174.050	52.87	1.99	74.0	21.13	Peak	336.00	200	Horizontal	Pass
6**	16174.050	43.58	1.99	54.0	10.42	AV	336.00	200	Horizontal	Pass

## 11ac80, U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

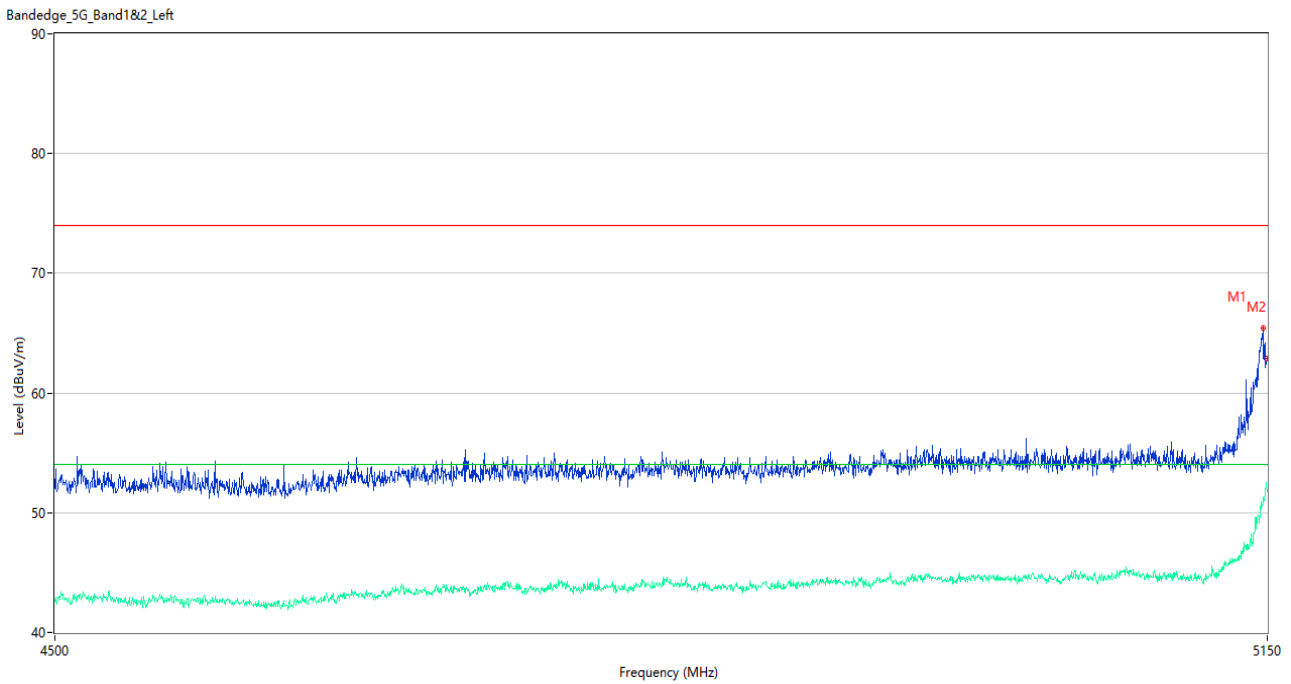
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.300	40.93	-16.93	74.0	33.07	Peak	281.00	200	Vertical	Pass
1**	1579.300	31.04	-16.93	54.0	22.96	AV	281.00	200	Vertical	Pass
2	4394.500	47.45	-4.73	74.0	26.55	Peak	360.00	300	Vertical	Pass
2**	4394.500	37.93	-4.73	54.0	16.07	AV	360.00	300	Vertical	Pass
3	5766.250	92.09	-2.38	--	--	Peak	210.00	200	Vertical	N/A
3**	5766.250	85.28	-2.38	--	--	AV	210.00	200	Vertical	N/A
4	7489.000	53.27	1.20	74.0	20.73	Peak	235.00	400	Vertical	Pass
4**	7489.000	43.98	1.20	54.0	10.02	AV	235.00	400	Vertical	Pass
5	12520.575	52.86	1.32	74.0	21.14	Peak	123.00	100	Vertical	Pass
5**	12520.575	43.85	1.32	54.0	10.15	AV	123.00	100	Vertical	Pass
6	16161.450	52.69	2.07	74.0	21.31	Peak	163.00	300	Vertical	Pass
6**	16161.450	44.91	2.07	54.0	9.09	AV	163.00	300	Vertical	Pass

## A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
802.11ac(VHT80)	Middle	Pass	
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
802.11ac(VHT80)	Middle	Pass	

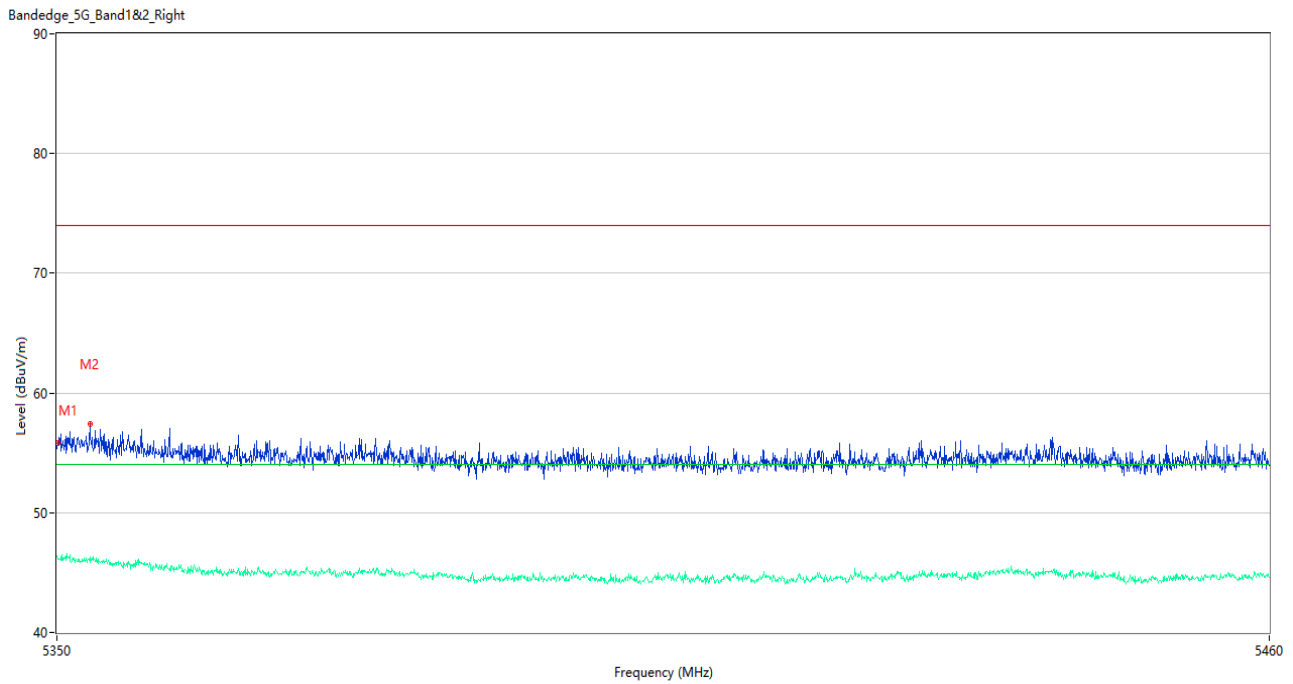
Test Data and Plots

U-NII-1 11a Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.400	65.39	2.94	74.0	8.61	Peak	79.00	100	Horizontal	Pass
1**	5147.400	50.84	2.94	54.0	3.16	AV	79.00	100	Horizontal	Pass
2	5150.000	62.90	2.86	74.0	11.10	Peak	79.00	100	Horizontal	Pass
2**	5150.000	51.75	2.86	54.0	2.25	AV	79.00	100	Horizontal	Pass

U-NII-1 11a High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.79	3.30	74.0	18.21	Peak	280.00	100	Horizontal	Pass
1**	5350.055	46.14	3.30	54.0	7.86	AV	280.00	100	Horizontal	Pass
2	5352.970	57.40	3.23	74.0	16.60	Peak	338.00	100	Horizontal	Pass
2**	5352.970	46.32	3.23	54.0	7.68	AV	338.00	100	Horizontal	Pass

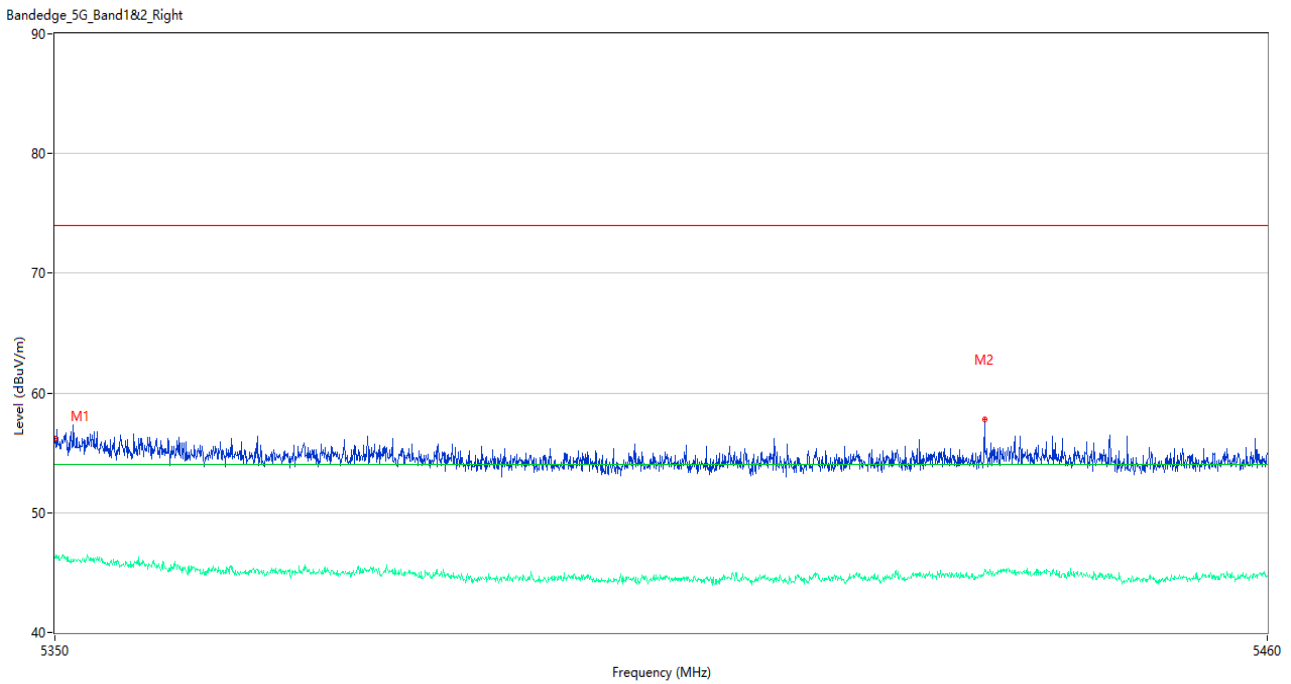
U-NII-1 11n20 Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.675	67.02	2.85	74.0	6.98	Peak	81.00	150	Horizontal	Pass
1**	5149.675	52.34	2.85	54.0	1.66	AV	81.00	150	Horizontal	Pass
2	5150.000	64.45	2.86	74.0	9.55	Peak	81.00	200	Horizontal	Pass
2**	5150.000	52.88	2.86	54.0	1.12	AV	81.00	200	Horizontal	Pass

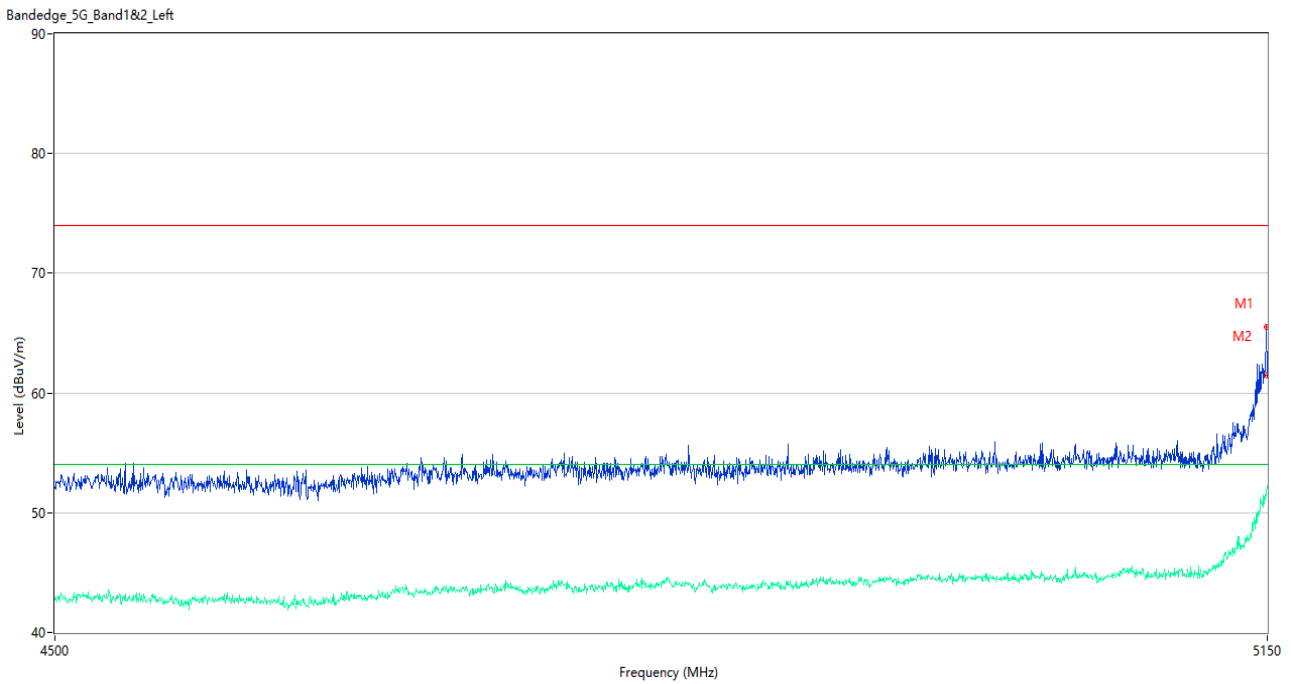


U-NII-1 11n20 High Channel



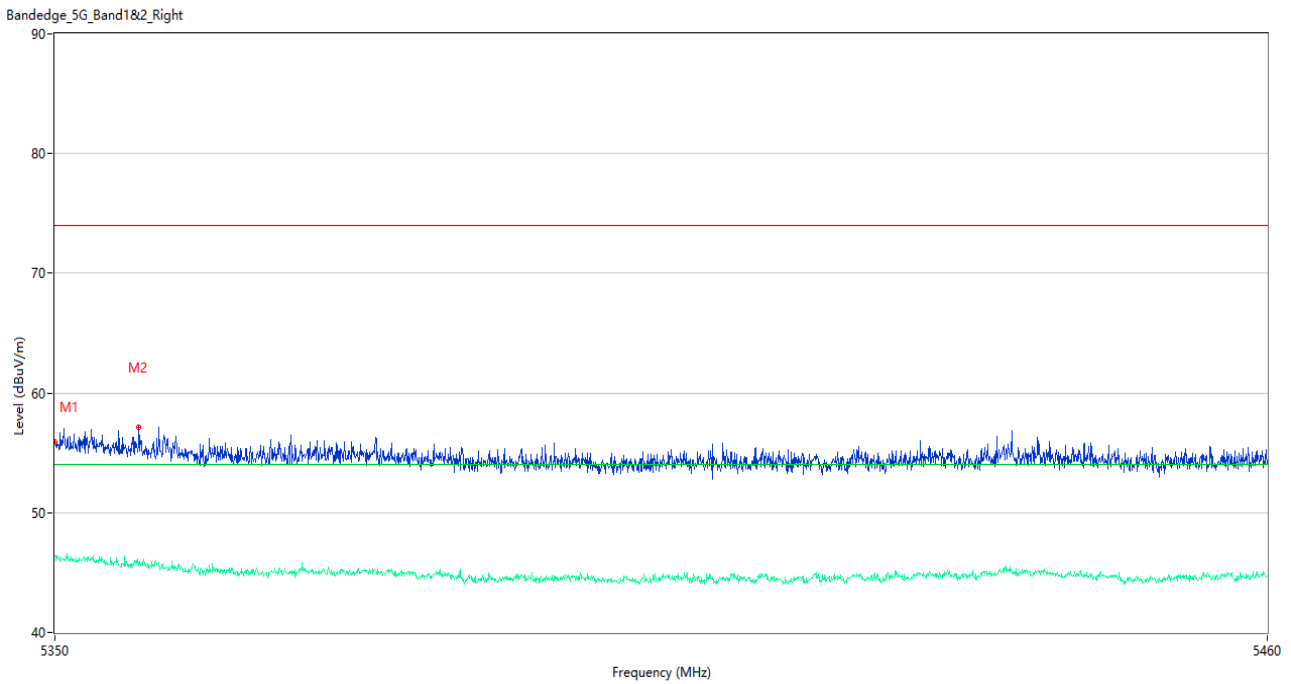
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.18	3.32	74.0	17.82	Peak	24.00	200	Horizontal	Pass
1**	5350.000	46.26	3.32	54.0	7.74	AV	24.00	200	Horizontal	Pass
2	5434.150	57.83	3.76	74.0	16.17	Peak	360.00	100	Horizontal	Pass
2**	5434.150	45.30	3.76	54.0	8.70	AV	360.00	100	Horizontal	Pass

U-NII-1 11n40 Low Channel



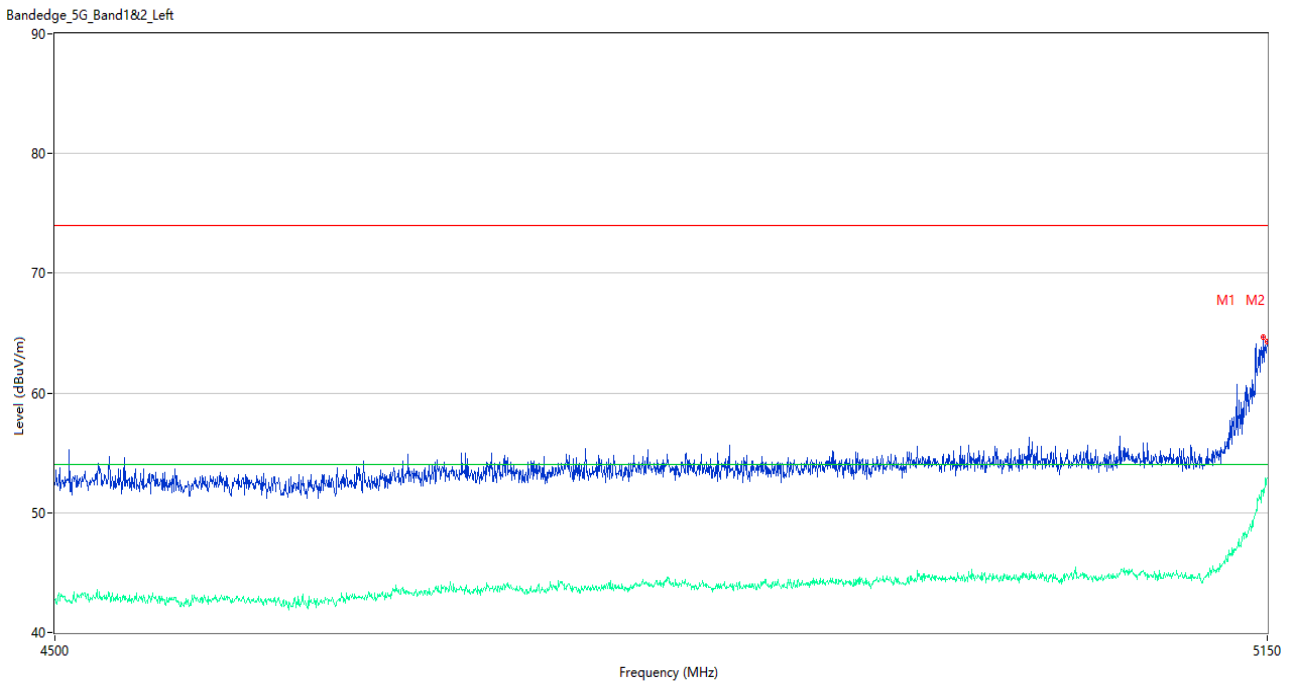
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.675	65.50	2.85	74.0	8.50	Peak	81.00	100	Horizontal	Pass
1**	5149.675	51.67	2.85	54.0	2.33	AV	81.00	100	Horizontal	Pass
2	5150.000	61.46	2.86	74.0	12.54	Peak	293.00	150	Horizontal	Pass
2**	5150.000	52.28	2.86	54.0	1.72	AV	293.00	150	Horizontal	Pass

U-NII-1 11n40 High Channel



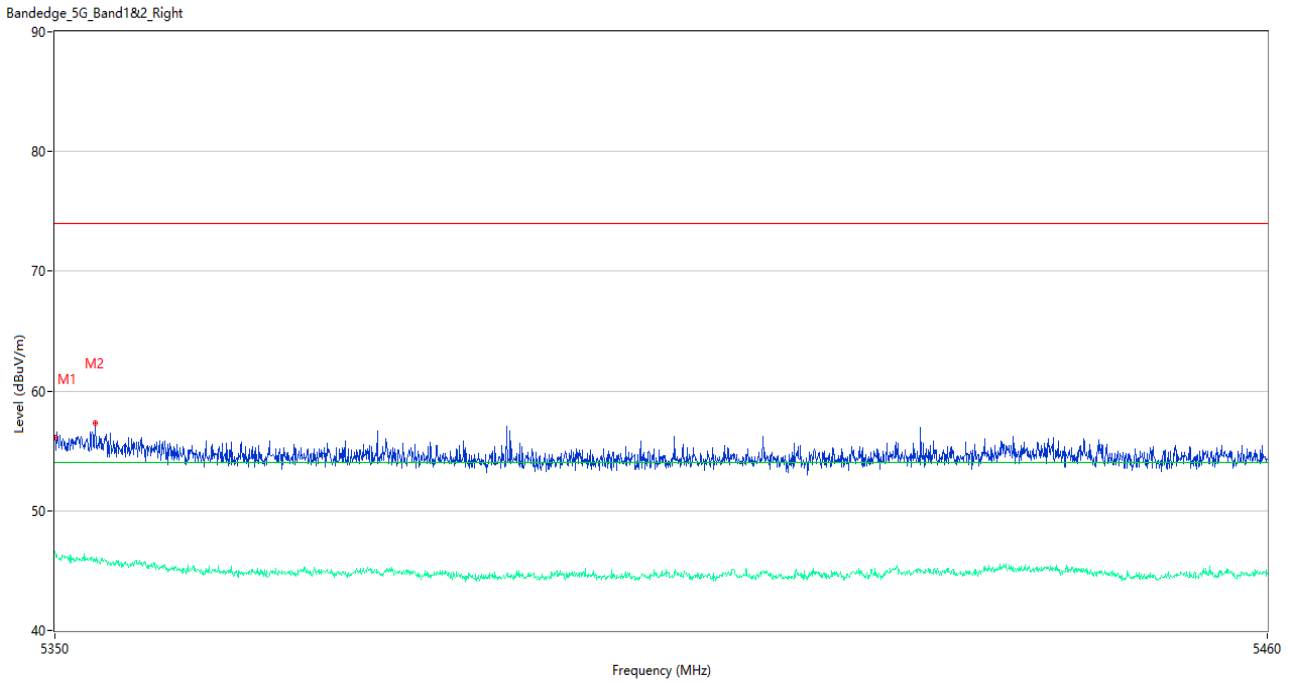
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.95	3.32	74.0	18.05	Peak	0.00	100	Horizontal	Pass
1**	5350.000	46.36	3.32	54.0	7.64	AV	0.00	100	Horizontal	Pass
2	5357.535	57.14	3.07	74.0	16.86	Peak	318.00	200	Horizontal	Pass
2**	5357.535	45.79	3.07	54.0	8.21	AV	318.00	200	Horizontal	Pass

U-NII-1 11ac20 Low Channel



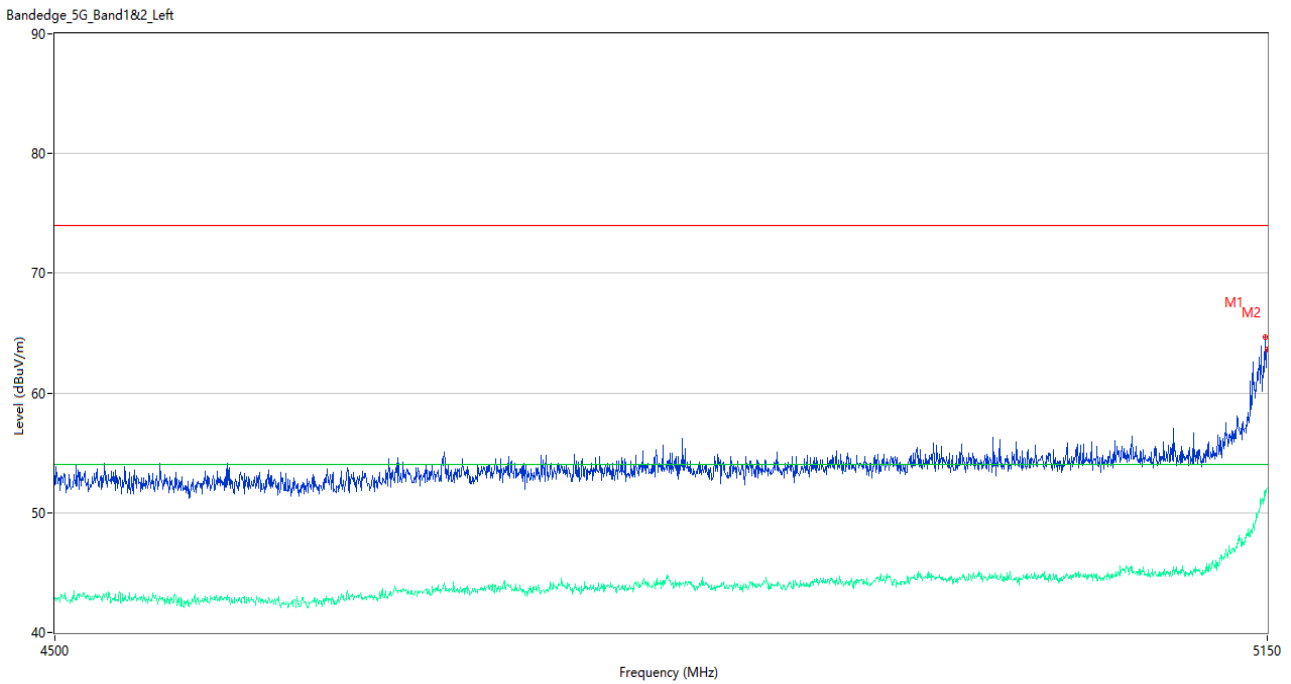
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.400	64.66	2.94	74.0	9.34	Peak	285.00	150	Horizontal	Pass
1**	5147.400	51.96	2.94	54.0	2.04	AV	285.00	150	Horizontal	Pass
2	5150.000	64.31	2.86	74.0	9.69	Peak	303.00	150	Horizontal	Pass
2**	5150.000	52.92	2.86	54.0	1.08	AV	303.00	150	Horizontal	Pass

U-NII-1 11ac20 High Channel



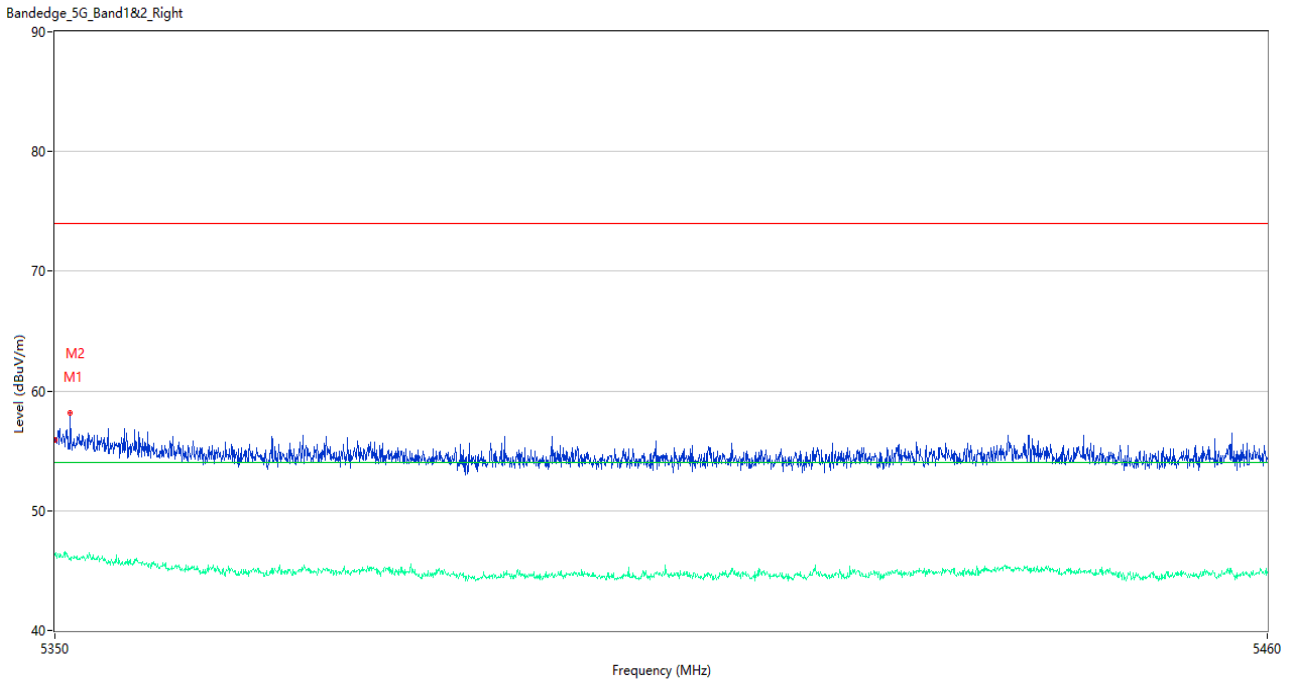
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.11	3.32	74.0	17.89	Peak	288.00	200	Horizontal	Pass
1**	5350.000	46.55	3.32	54.0	7.45	AV	288.00	200	Horizontal	Pass
2	5353.630	57.32	3.11	74.0	16.68	Peak	164.00	200	Horizontal	Pass
2**	5353.630	45.72	3.11	54.0	8.28	AV	164.00	200	Horizontal	Pass

U-NII-1 11ac40 Low Channel



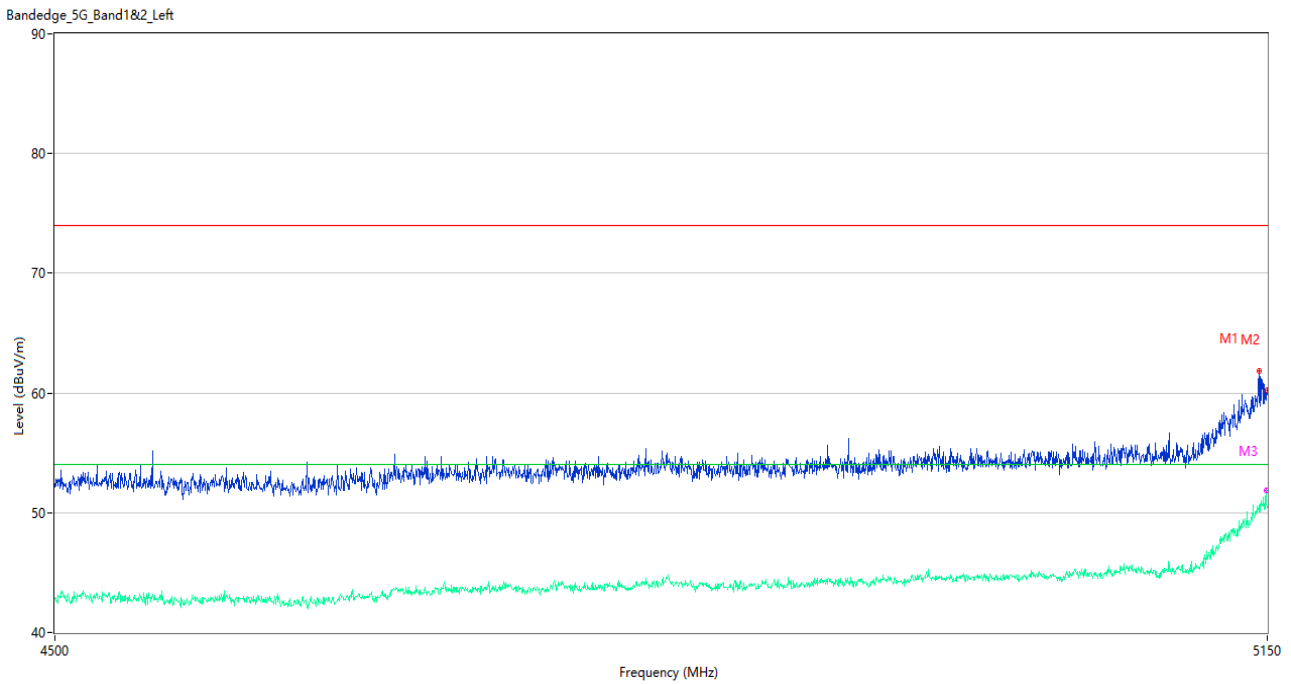
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.700	64.68	2.84	74.0	9.32	Peak	258.00	100	Horizontal	Pass
1**	5148.700	51.82	2.84	54.0	2.18	AV	258.00	100	Horizontal	Pass
2	5150.000	63.60	2.86	74.0	10.40	Peak	106.00	200	Horizontal	Pass
2**	5150.000	52.02	2.86	54.0	1.98	AV	106.00	200	Horizontal	Pass

U-NII-1 11ac40 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.90	3.32	74.0	18.10	Peak	56.00	150	Horizontal	Pass
1**	5350.000	46.35	3.32	54.0	7.65	AV	56.00	150	Horizontal	Pass
2	5351.375	58.16	3.06	74.0	15.84	Peak	97.00	200	Horizontal	Pass
2**	5351.375	45.90	3.06	54.0	8.10	AV	97.00	200	Horizontal	Pass

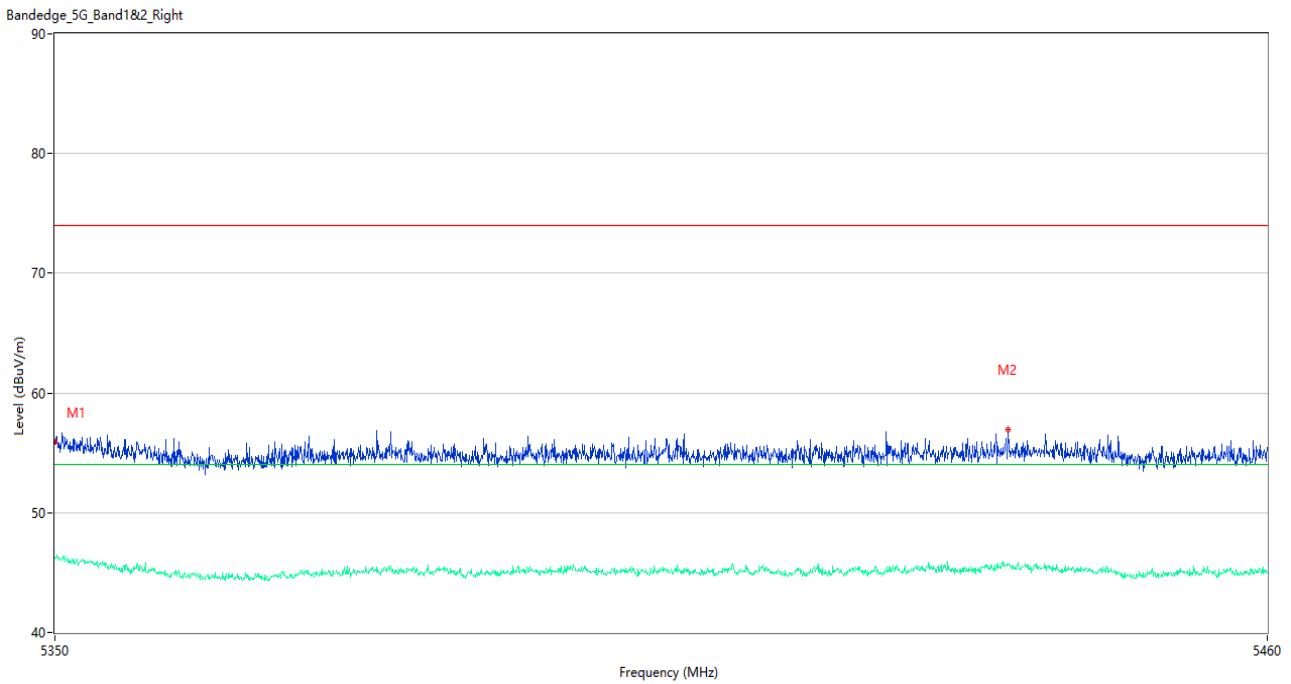
U-NII-1 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5145.125	61.87	3.07	74.0	12.13	Peak	269.00	200	Horizontal	Pass
1**	5145.125	50.11	3.07	54.0	3.89	AV	269.00	200	Horizontal	Pass
2	5150.000	60.29	2.86	74.0	13.71	Peak	79.00	100	Horizontal	Pass
2**	5150.000	50.47	2.86	54.0	3.53	AV	79.00	100	Horizontal	Pass
3	5149.350	60.02	2.85	74.0	13.98	Peak	79.00	150	Horizontal	Pass
3**	5149.350	51.87	2.85	54.0	2.13	AV	79.00	150	Horizontal	Pass

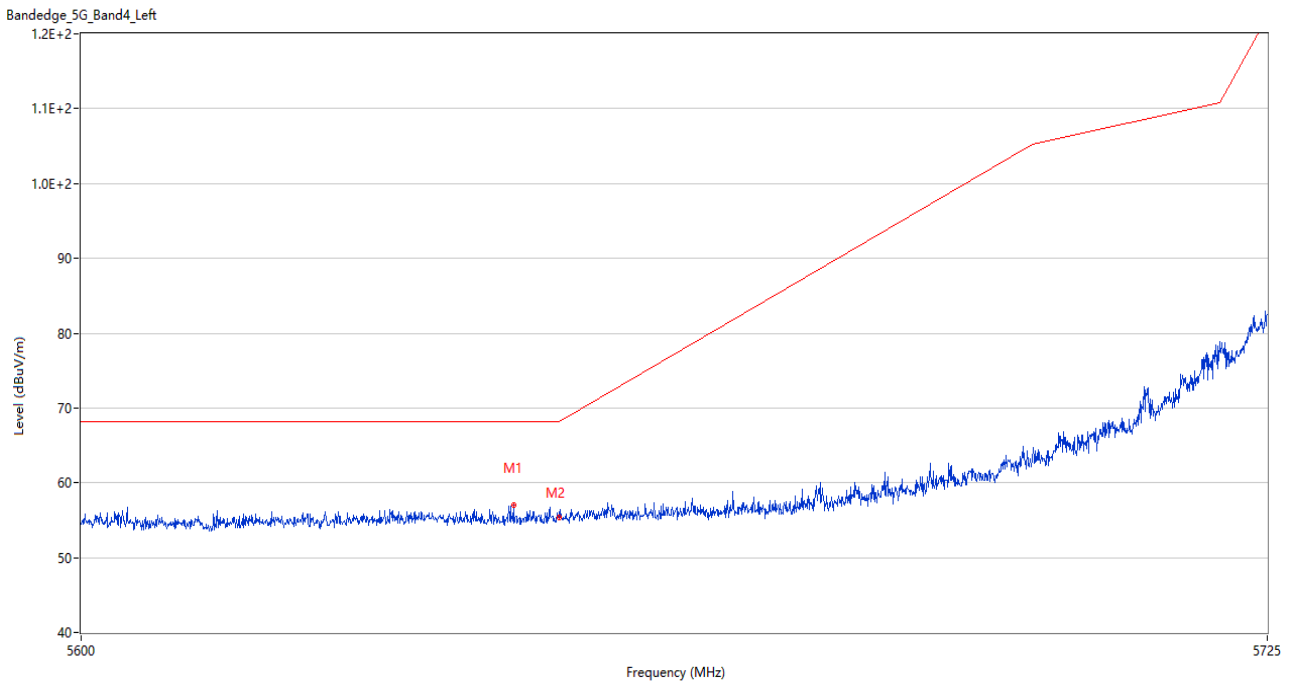


U-NII-1 11ac80 Middle Channel



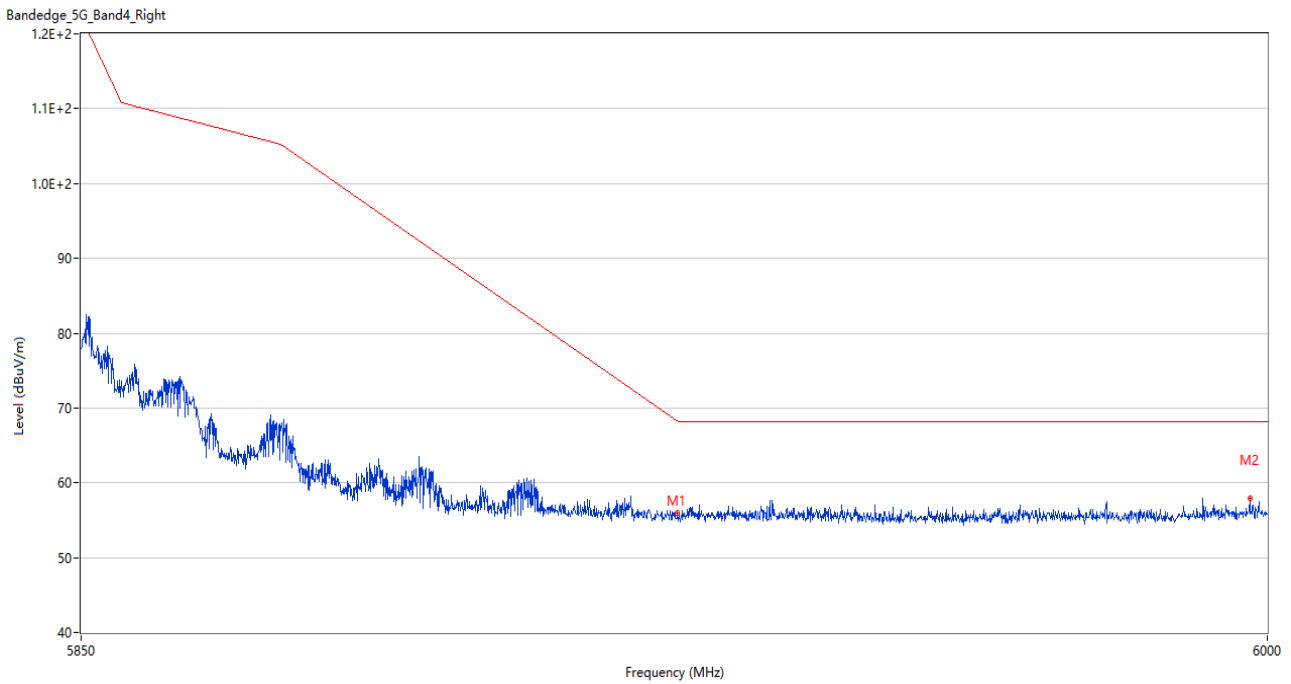
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.94	3.32	74.0	18.06	Peak	166.00	100	Horizontal	Pass
1**	5350.000	46.20	3.32	54.0	7.80	AV	166.00	100	Horizontal	Pass
2	5436.295	56.93	3.87	74.0	17.07	Peak	127.00	200	Horizontal	Pass
2**	5436.295	45.68	3.87	54.0	8.32	AV	127.00	200	Horizontal	Pass

U-NII-3 11a Low Channel



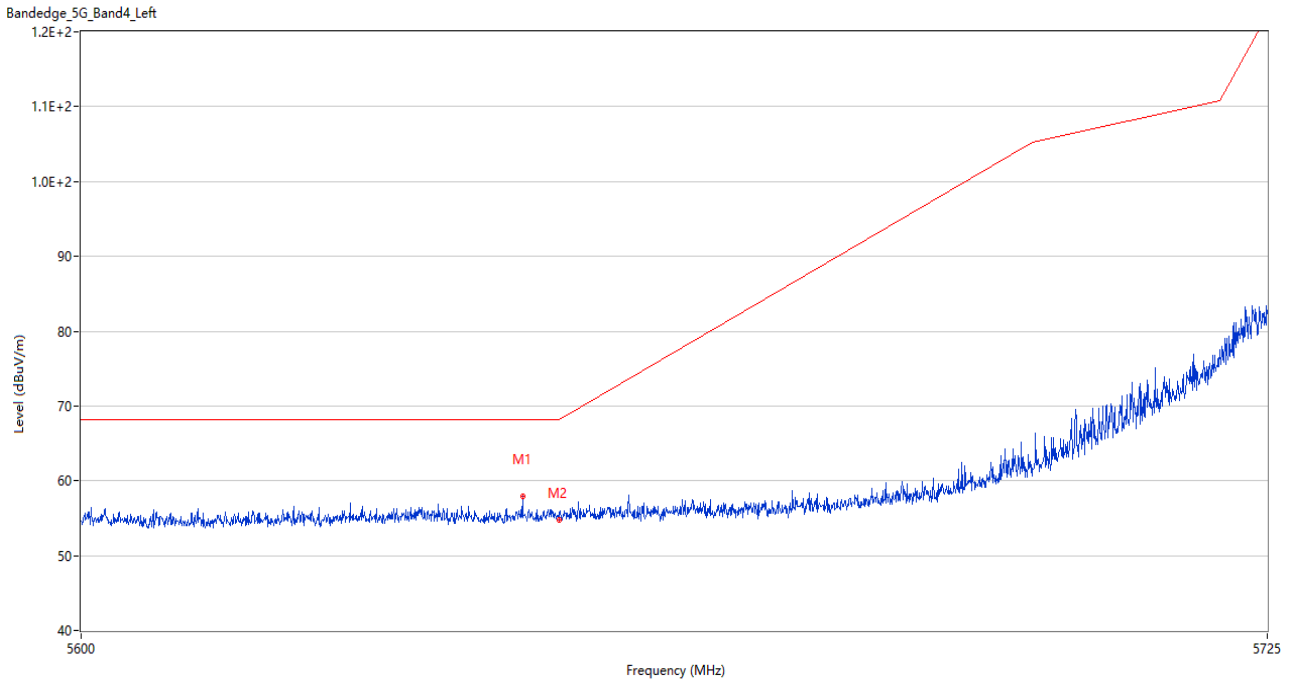
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5645.250	56.97	3.43	68.2	11.23	Peak	15.00	200	Horizontal	Pass
2	5650.000	55.34	3.72	68.2	12.86	Peak	284.00	100	Horizontal	Pass

U-NII-3 11a High Channel



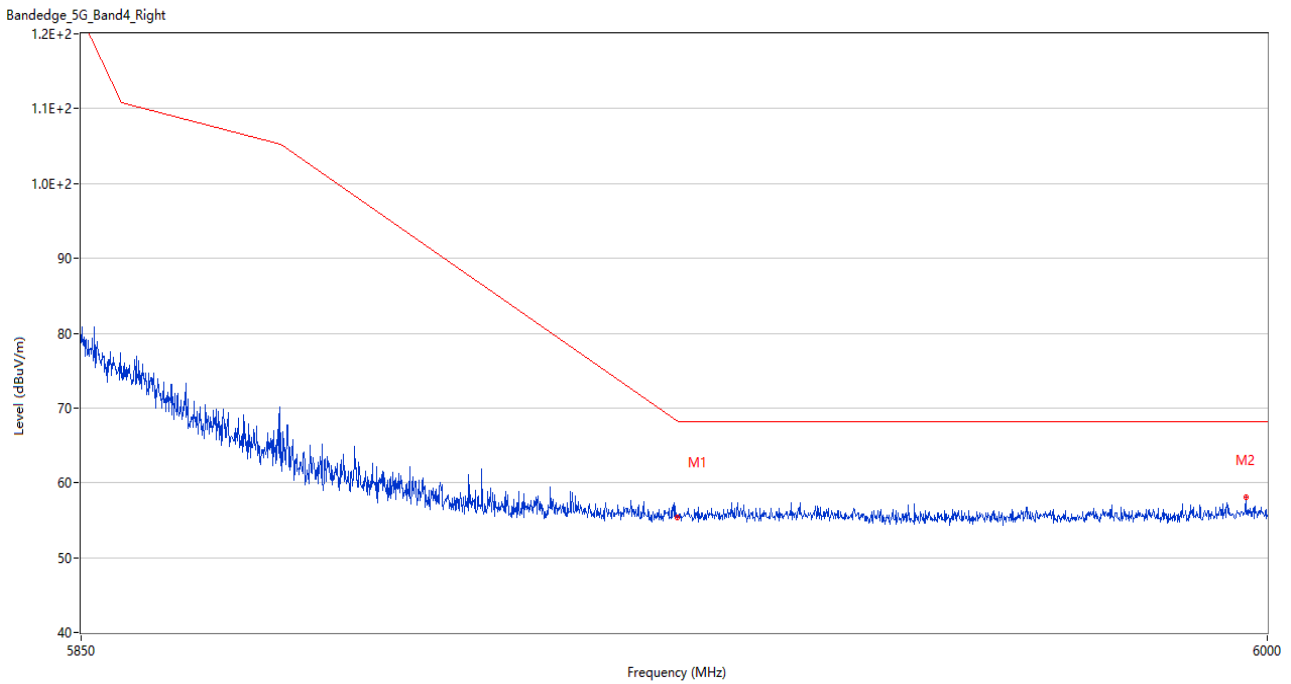
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	55.99	3.42	68.3	12.31	Peak	346.00	100	Horizontal	Pass
2	5997.750	57.98	5.02	68.2	10.22	Peak	298.00	100	Horizontal	Pass

U-NII-3 11n20 Low Channel



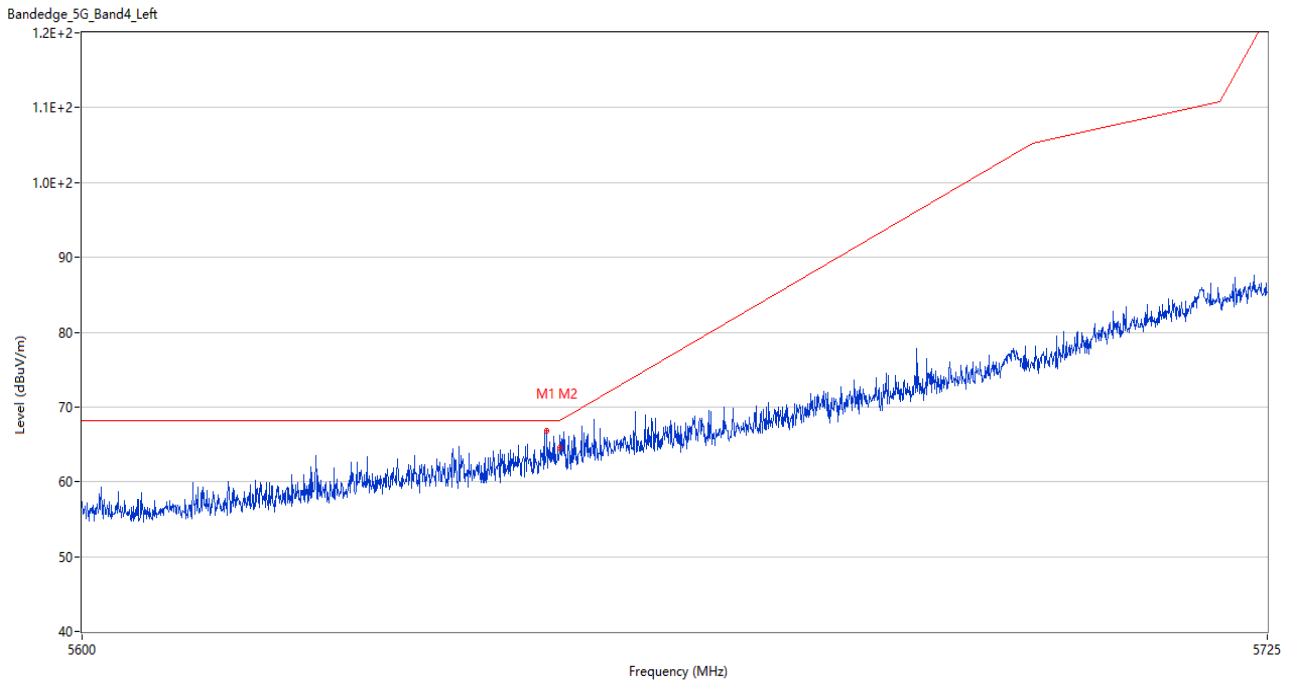
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5646.188	57.96	3.37	68.2	10.24	Peak	329.00	100	Horizontal	Pass
2	5650.000	54.81	3.72	68.2	13.39	Peak	354.00	100	Horizontal	Pass

U-NII-3 11n20 High Channel



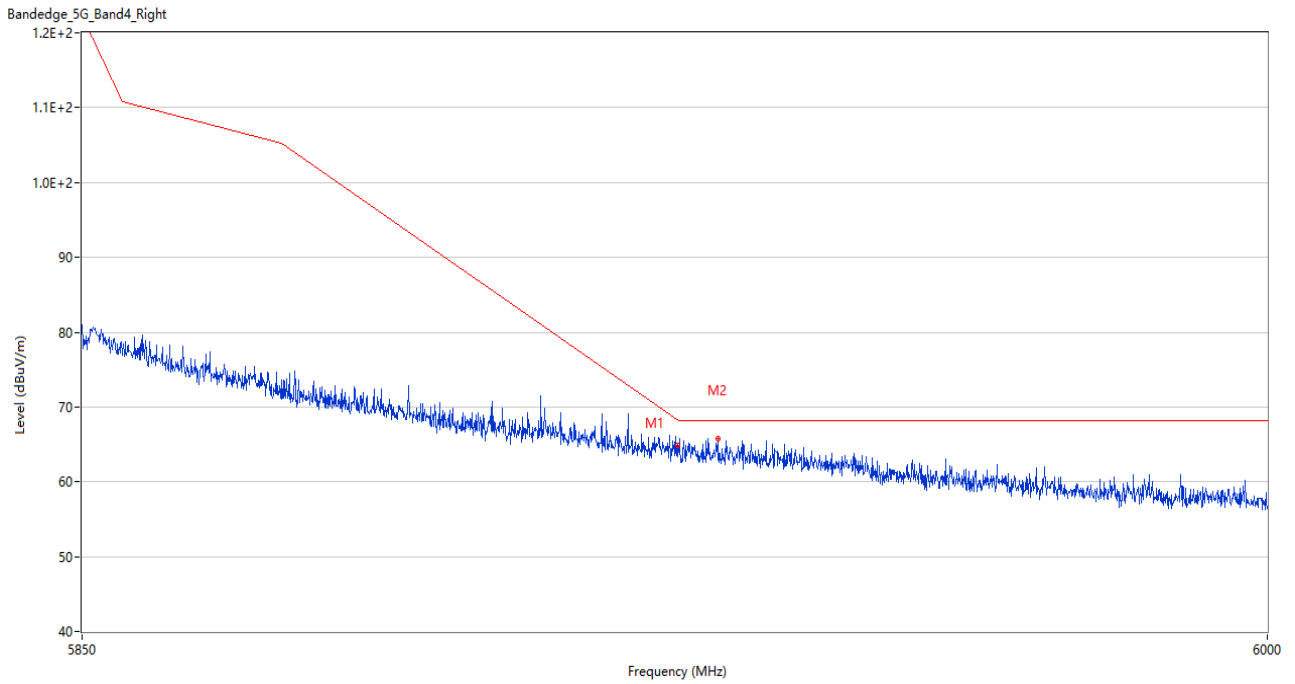
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	55.37	3.42	68.3	12.93	Peak	244.00	100	Horizontal	Pass
2	5997.225	58.10	4.83	68.2	10.10	Peak	85.00	200	Horizontal	Pass

U-NII-3 11n40 Low Channel



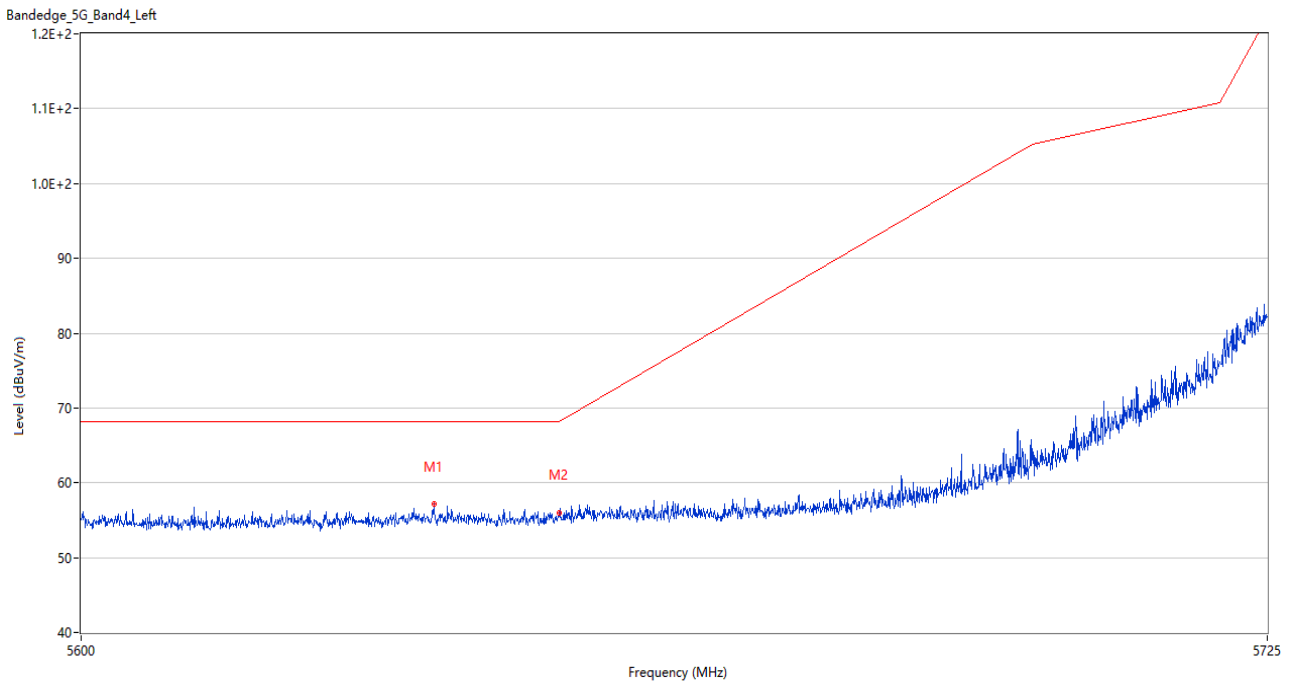
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5648.688	66.86	3.47	68.2	1.34	Peak	57.00	200	Horizontal	Pass
2	5650.000	64.63	3.72	68.2	3.57	Peak	326.00	100	Horizontal	Pass

U-NII-3 11n40 High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	64.83	3.42	68.3	3.47	Peak	285.00	100	Horizontal	Pass
2	5929.950	65.83	3.53	68.2	2.37	Peak	282.00	150	Horizontal	Pass

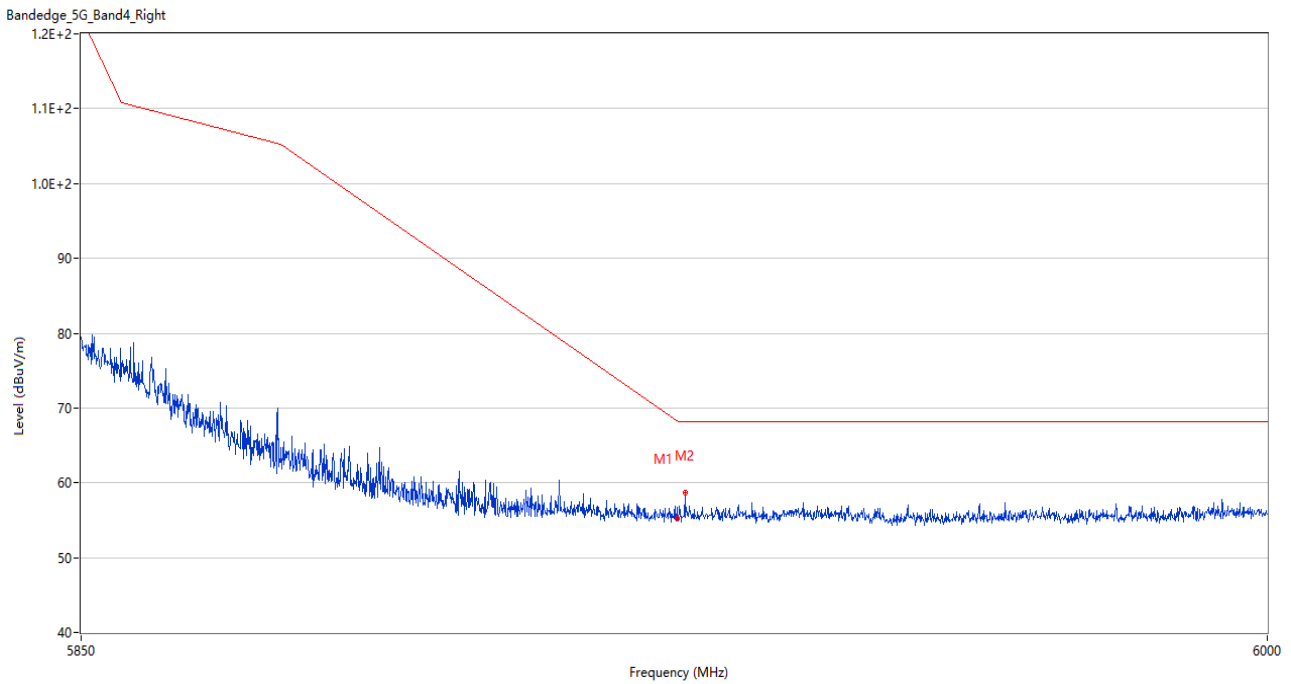
U-NII-3 11ac20 Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5636.875	57.16	3.70	68.2	11.04	Peak	12.00	100	Horizontal	Pass
2	5650.000	56.02	3.72	68.2	12.18	Peak	310.00	200	Horizontal	Pass

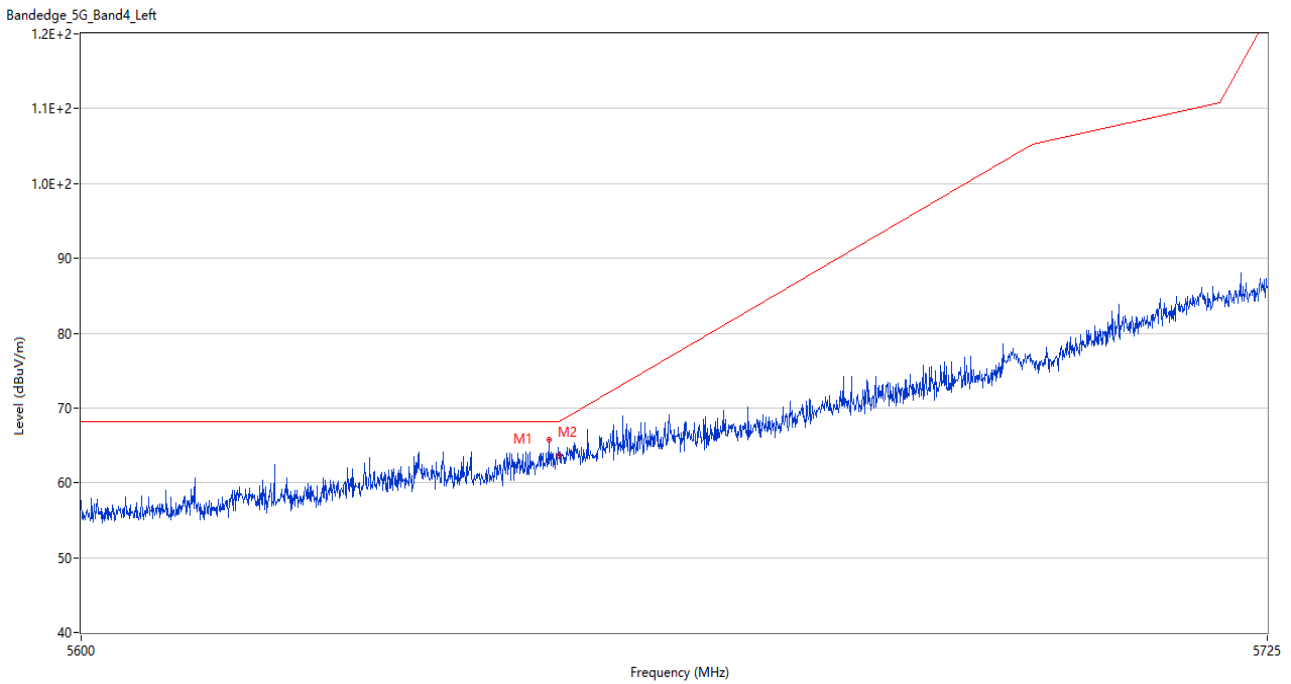


U-NII-3 11ac20 High Channel



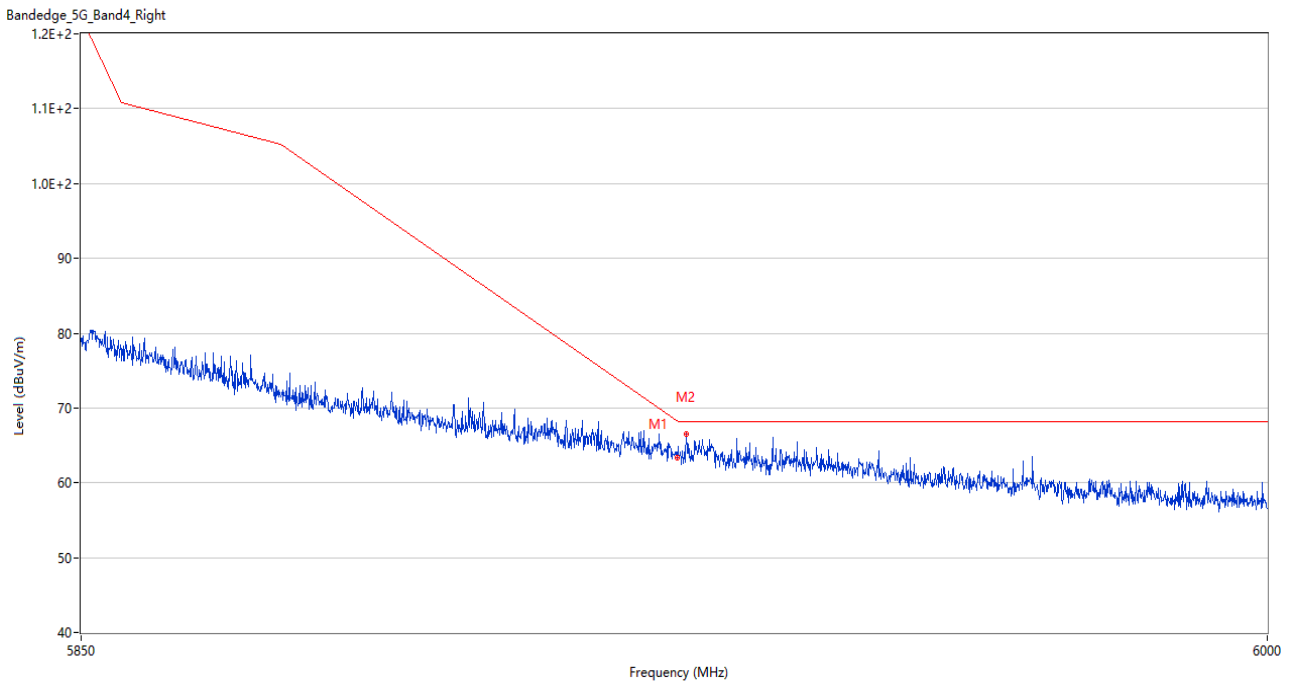
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	55.26	3.42	68.3	13.04	Peak	0.00	100	Horizontal	Pass
2	5925.900	58.68	3.56	68.2	9.52	Peak	280.00	200	Horizontal	Pass

U-NII-3 11ac40 Low Channel



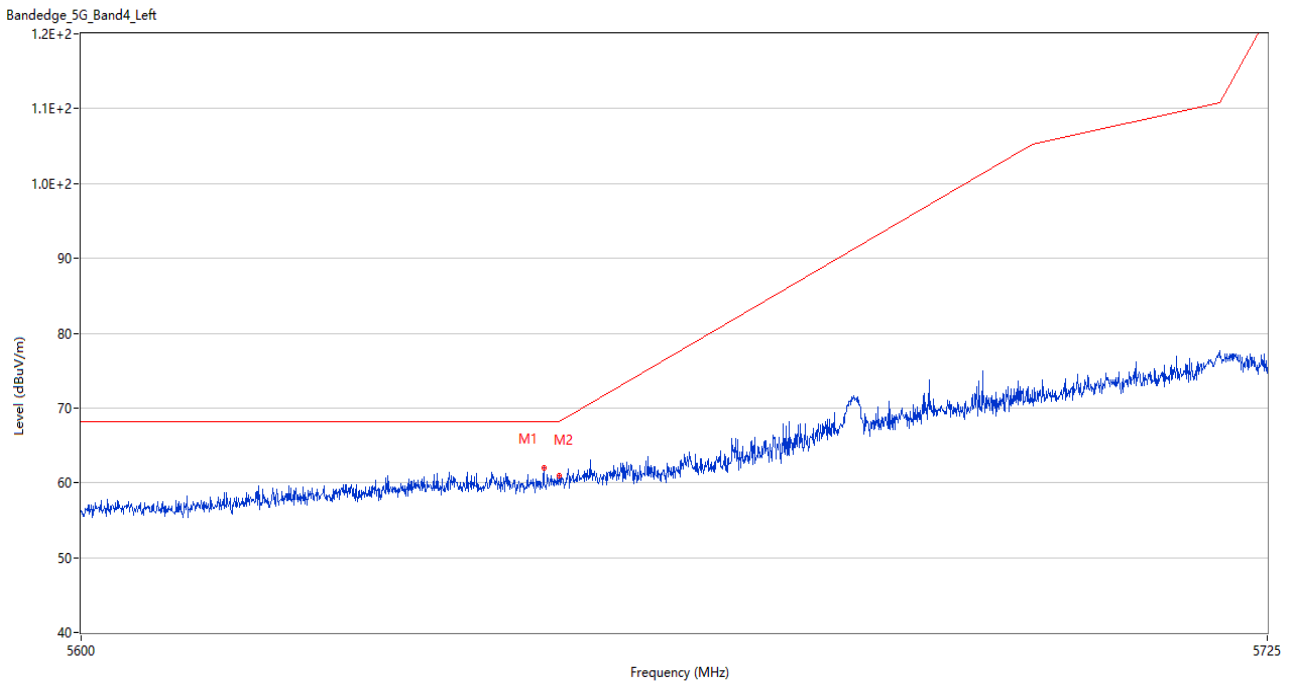
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5648.937	65.74	3.58	68.2	2.46	Peak	64.00	200	Horizontal	Pass
2	5650.000	63.58	3.72	68.2	4.62	Peak	64.00	200	Horizontal	Pass

U-NII-3 11ac40 High Channel



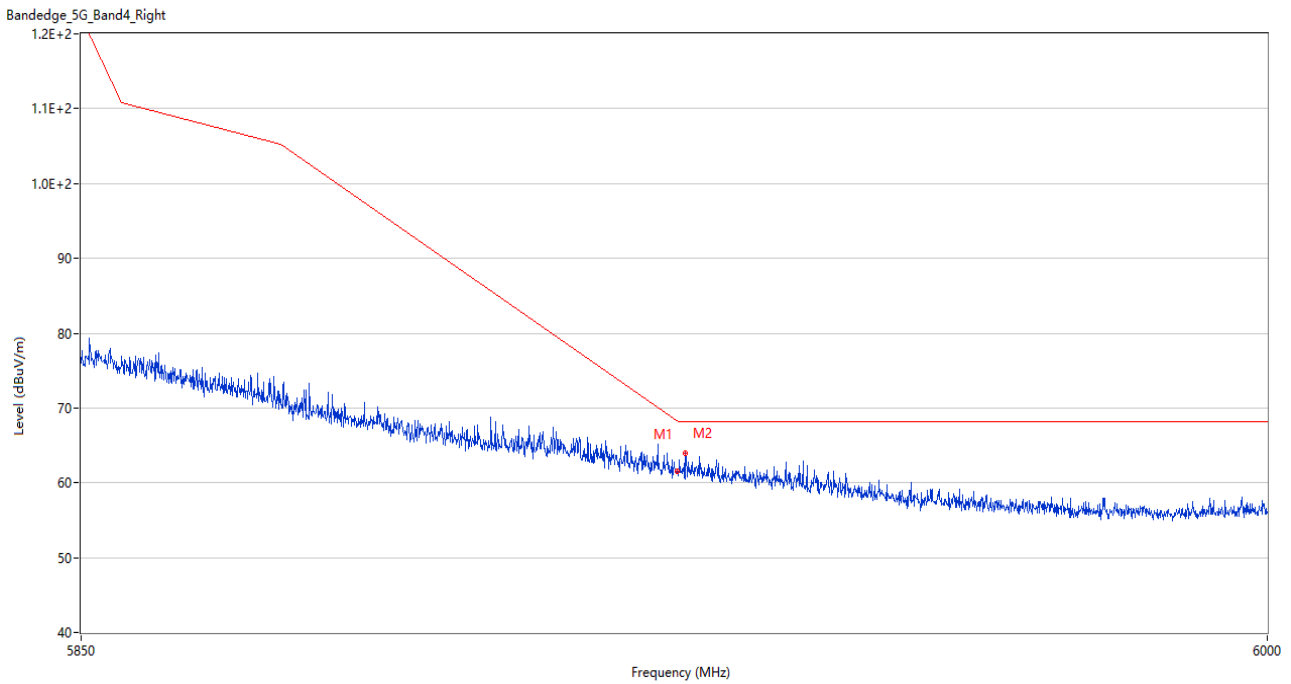
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	63.38	3.42	68.3	4.92	Peak	95.00	150	Horizontal	Pass
2	5926.050	66.51	3.66	68.2	1.69	Peak	282.00	200	Horizontal	Pass

U-NII-3 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5648.437	62.03	3.34	68.2	6.17	Peak	58.00	100	Horizontal	Pass
2	5650.000	60.98	3.72	68.2	7.22	Peak	58.00	200	Horizontal	Pass

U-NII-3 11ac80 Middle Channel



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.925	61.57	3.42	68.3	6.73	Peak	90.00	100	Horizontal	Pass
2	5925.975	63.90	3.61	68.2	4.30	Peak	83.00	150	Horizontal	Pass

## **ANNEX B TEST SETUP PHOTOS**

Please refer the document “BL-SZ2370103-AR.PDF”.

## **ANNEX C EUT EXTERNAL PHOTOS**

Please refer the document “BL-SZ2370103-AW.PDF”.

## **ANNEX D EUT INTERNAL PHOTOS**

Please refer the document “BL-SZ2370103-AI.PDF”.

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