TEST REPORT

Applicant:	Hangzhou Sunyard Technology Co., Ltd.
Address:	Sunyard Science & Technology Building, 3888 Jiangnan Ave., Binjiang Dist., Hangzhou, China
Equipment Type:	Android POS Terminal
Model Name:	S200
Brand Name:	SUNYARD
FCC ID:	2BFZW-S200
Test Standard:	47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date:	Apr. 01, 2024
Test Date:	Apr. 11, 2024 - Apr. 26, 2024
Date of Issue:	Jun. 20, 2024

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Si Xiao

Checked by: Ye Hongji

Approved by: Liao Jianming (Technical Director)

Revision History

Version	Issue Date	Revisions
Rev. 01	Jun. 20, 2024	Initial Issue

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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	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 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	Hangzhou Sunyard Technology Co., Ltd.
Address	Sunyard Science & Technology Building, 3888 Jiangnan Ave., Binjiang Dist., Hangzhou, China

2.2 Manufacturer Information

Manufacturer	Hangzhou Sunyard Technology Co., Ltd.
Address	Sunyard Science & Technology Building, 3888 Jiangnan Ave., Binjiang Dist., Hangzhou, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Android POS Terminal
Model Name Under Test	S200
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	S1-00-10-01-01
Software Version	SP6987A_V002_20240328_userdebug
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 MHz 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/17/66 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g and 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/3, NFC

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	☐ Mobile ☒ Portable ☐ Fix Location
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
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: 47.21 mW U-NII-3: 47.10 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	Monopole Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: -1.6 dBi U-NII-3: 5725 MHz to 5850 MHz: -3.1 dBi
About the Product	The equipment is Android POS Terminal, 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)
36	**5180**	**38**	**5190**	**42**	**5210**
40	5200	**46**	**5230**	**155**	**5775**
44	**5220**	**151**	**5755**		
48	**5240**	**159**	**5795**		
149	**5745**				
153	5765				
157	**5785**				
161	5805				
165	**5825**				

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 Channel	U-NII-3 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[Note1]
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.

Note [2]: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	48% to 70%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.0℃ to +24.1℃
	LT (Low Temperature)	+0.0℃
	HT (High Temperature)	+45.0℃
Working Voltage of the EUT	NV (Normal Voltage)	7.20 V
	LV (Low Voltage)	6.80 V
	HV (High Voltage)	7.92 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2023.07.25	2024.07.24
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2023.07.12	2024.07.11
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2023.09.05	2024.09.04
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2023.06.19	2024.06.18
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.23	2025.02.22
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2021.07.02	2024.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2024.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2023.09.05	2024.09.04
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2023.09.05	2024.09.04
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2023.12.06	2024.12.05
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2024.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2023.12.05	2024.12.04
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2021.08.15	2024.08.14
EMI Receiver	Agilent	N9038A	MY55330120	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11
Amplifier	COM-MV	ZT30-1000M	B2017119081	2023.12.05	2024.12.04
Anechoic Chamber	YiHeng	9m*6m*6m	142	2021.08.19	2024.08.18
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
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

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	V22.930	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.

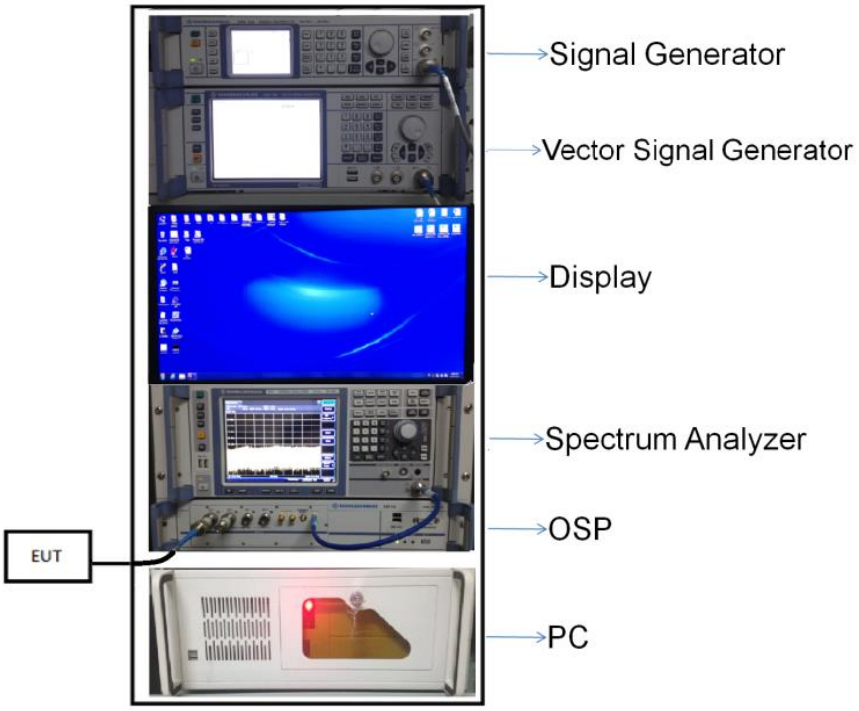
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

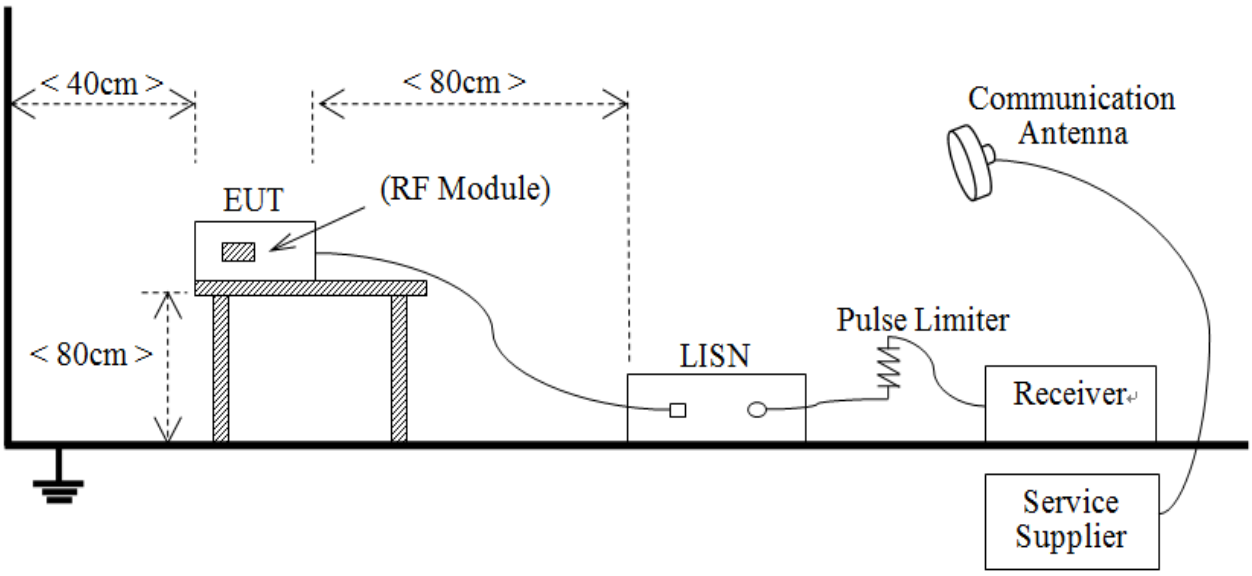
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

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



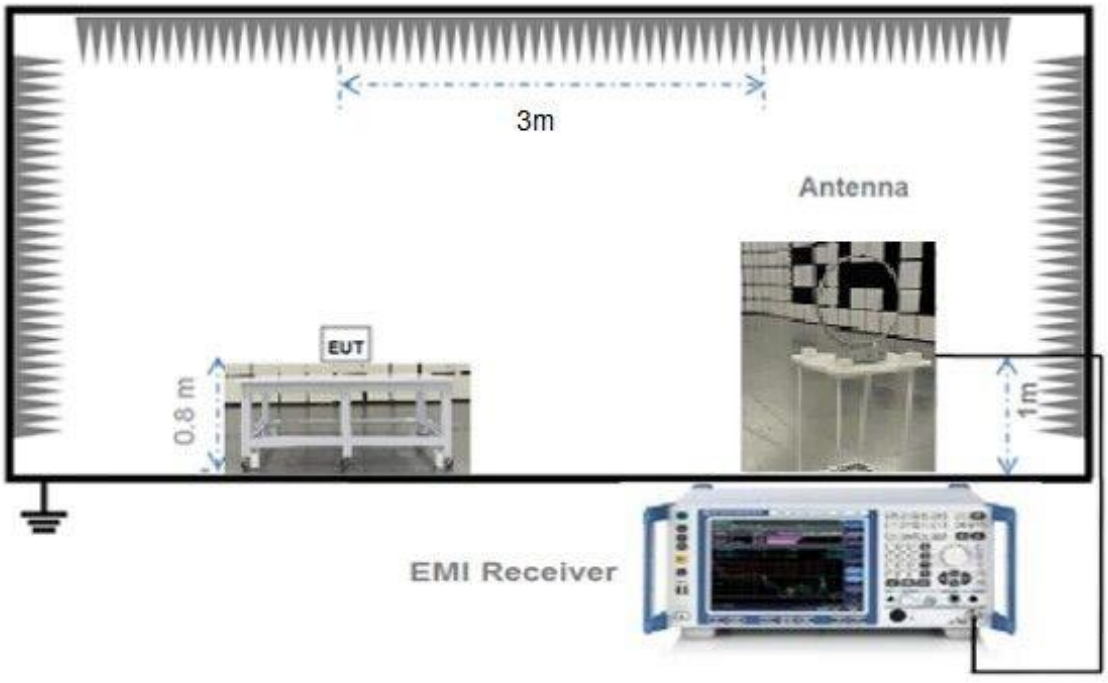
(Diagram 1)

4.5.2 For AC Power Supply Port Test



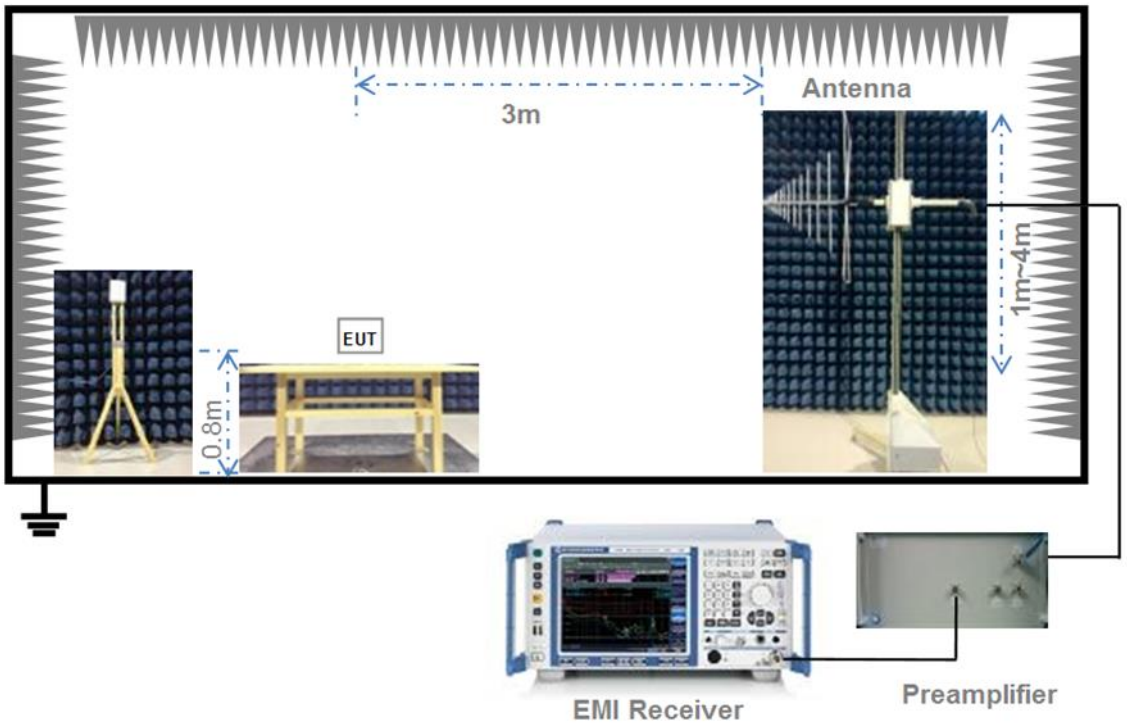
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



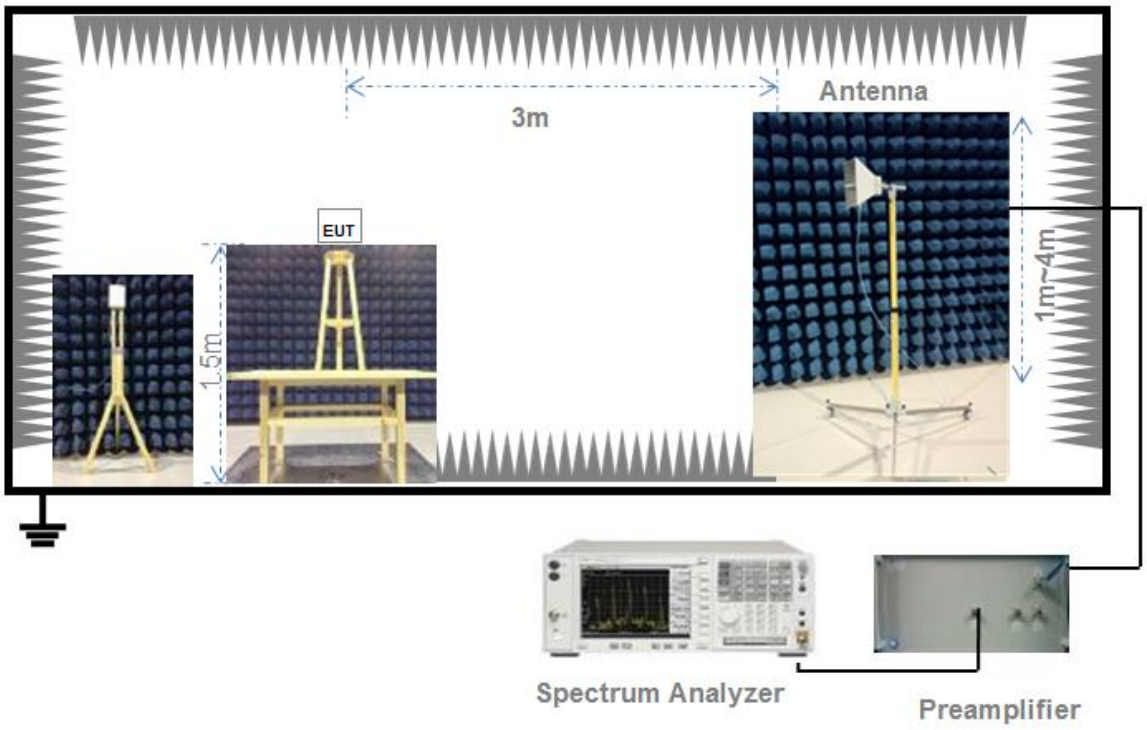
(Diagram 3)

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

Maximum conducted (average) output power

a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.

2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.

3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal.

c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

d) Adjust the measurement in dBm by adding 10 log (1/x) where x is the duty cycle.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW ≥ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if T ≤ 16.7 microseconds.)

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 ≥ 3*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 ≥ 3*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 ≥ 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 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	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)

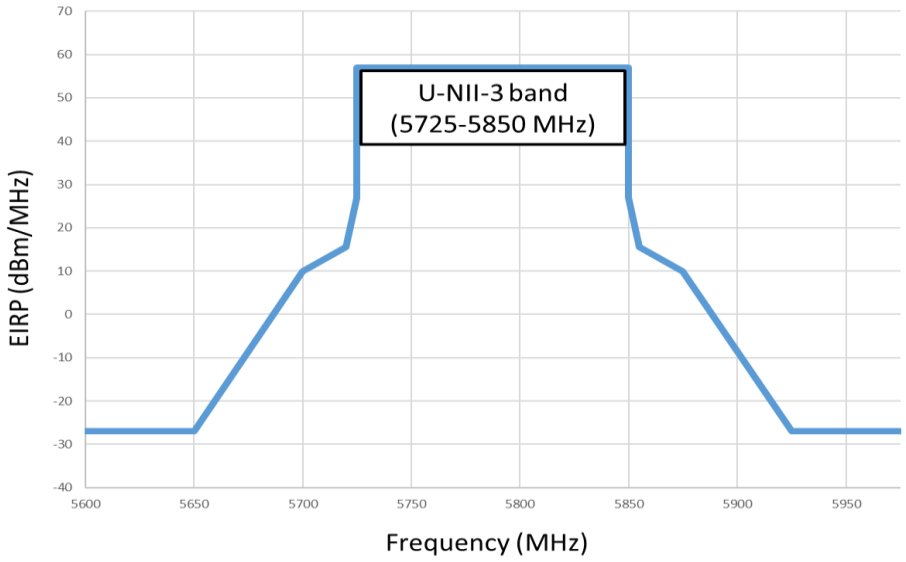
5.5.1 Limit

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 [1]: The Limit for radiated test was performed according to FCC Part 15C

Note [2]: 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	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. 

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 ≤ 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:

$E = EIRP – 20\log D + 104.8$

where:

E = electric field strength in dBμV/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 ≥ 3 x 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 ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 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 ≥ 3 x RBW.

e) Detector = RMS, if span/(# of points in sweep) ≤ (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 (≥ 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 ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ 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	Duty Factor
11a	1.39	1.44	96.87%	0.14
11n (HT20)/11ac (VHT20)	1.31	1.36	96.68%	0.15
11n (HT40)/11ac (VHT40)	0.65	0.70	93.34%	0.30
11ac (VHT80)	0.32	0.37	87.79%	0.57

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.67	46.45	250	Pass
11a	CH44	16.65	46.24	250	Pass
11a	CH48	16.74	47.21	250	Pass
11n (HT20)	CH36	14.44	27.80	250	Pass
11n (HT20)	CH44	14.47	27.99	250	Pass
11n (HT20)	CH48	14.53	28.38	250	Pass
11n (HT40)	CH38	14.43	27.73	250	Pass
11n (HT40)	CH46	14.44	27.80	250	Pass
11ac (VHT20)	CH36	14.47	27.99	250	Pass
11ac (VHT20)	CH44	14.59	28.77	250	Pass
11ac (VHT20)	CH48	14.56	28.58	250	Pass
11ac (VHT40)	CH38	14.88	30.76	250	Pass
11ac (VHT40)	CH46	14.89	30.83	250	Pass
11ac (VHT80)	CH42	12.68	18.54	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.72	46.99	1000	Pass
11a	CH157	16.73	47.10	1000	Pass
11a	CH165	16.70	46.77	1000	Pass
11n (HT20)	CH149	14.54	28.44	1000	Pass
11n (HT20)	CH157	14.53	28.38	1000	Pass
11n (HT20)	CH165	14.52	28.31	1000	Pass
11n (HT40)	CH151	14.88	30.76	1000	Pass
11n (HT40)	CH159	14.85	30.55	1000	Pass
11ac (VHT20)	CH149	14.49	28.12	1000	Pass
11ac (VHT20)	CH157	14.60	28.84	1000	Pass
11ac (VHT20)	CH165	14.56	28.58	1000	Pass
11ac (VHT40)	CH151	14.75	29.85	1000	Pass
11ac (VHT40)	CH159	14.79	30.13	1000	Pass
11ac (VHT80)	CH155	12.61	18.24	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2440362-604 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	22.29	16.61
11a	CH44	23.12	16.60
11a	CH48	22.22	16.57
11n (HT20)	CH36	20.42	17.61
11n (HT20)	CH44	20.34	17.64
11n (HT20)	CH48	20.38	17.62
11n (HT40)	CH38	40.62	36.07
11n (HT40)	CH46	40.68	36.08
11ac (VHT20)	CH36	20.37	17.57
11ac (VHT20)	CH44	20.42	17.60
11ac (VHT20)	CH48	20.38	17.60
11ac (VHT40)	CH38	41.48	36.05
11ac (VHT40)	CH46	40.68	36.03
11ac (VHT80)	CH42	81.00	75.40

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	21.84	16.61
11a	CH157	22.74	16.61
11a	CH165	22.34	16.64
11n (HT20)	CH149	20.43	17.63
11n (HT20)	CH157	20.58	17.64
11n (HT20)	CH165	20.44	17.64
11n (HT40)	CH151	40.70	36.15
11n (HT40)	CH159	40.50	36.15
11ac (VHT20)	CH149	20.35	17.60
11ac (VHT20)	CH157	23.18	17.61
11ac (VHT20)	CH165	20.46	17.64
11ac (VHT40)	CH151	40.99	36.09
11ac (VHT40)	CH159	41.77	36.05
11ac (VHT80)	CH155	81.39	75.42

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2440362-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.30	500.00	Pass
11a	CH157	15.50	500.00	Pass
11a	CH165	15.30	500.00	Pass
11n (HT20)	CH149	15.30	500.00	Pass
11n (HT20)	CH157	15.30	500.00	Pass
11n (HT20)	CH165	15.30	500.00	Pass
11n (HT40)	CH151	35.30	500.00	Pass
11n (HT40)	CH159	35.30	500.00	Pass
11ac (VHT20)	CH149	15.30	500.00	Pass
11ac (VHT20)	CH157	15.30	500.00	Pass
11ac (VHT20)	CH165	15.30	500.00	Pass
11ac (VHT40)	CH151	35.30	500.00	Pass
11ac (VHT40)	CH159	35.30	500.00	Pass
11ac (VHT80)	CH155	75.30	500.00	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document “Annex No.: BL-SZ2440362-604 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	5.96	11.00	Pass
11a	CH44	5.17	11.00	Pass
11a	CH48	5.12	11.00	Pass
11n (HT20)	CH36	2.95	11.00	Pass
11n (HT20)	CH44	2.77	11.00	Pass
11n (HT20)	CH48	2.47	11.00	Pass
11n (HT40)	CH38	-0.16	11.00	Pass
11n (HT40)	CH46	-0.37	11.00	Pass
11ac (VHT20)	CH36	2.91	11.00	Pass
11ac (VHT20)	CH44	2.75	11.00	Pass
11ac (VHT20)	CH48	3.20	11.00	Pass
11ac (VHT40)	CH38	0.81	11.00	Pass
11ac (VHT40)	CH46	0.68	11.00	Pass
11ac (VHT80)	CH42	-4.59	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	2.38	30.00	Pass
11a	CH157	2.11	30.00	Pass
11a	CH165	2.21	30.00	Pass
11n (HT20)	CH149	0.04	30.00	Pass
11n (HT20)	CH157	-0.10	30.00	Pass
11n (HT20)	CH165	-0.02	30.00	Pass
11n (HT40)	CH151	-2.49	30.00	Pass
11n (HT40)	CH159	-2.72	30.00	Pass
11ac (VHT20)	CH149	0.57	30.00	Pass
11ac (VHT20)	CH157	0.06	30.00	Pass
11ac (VHT20)	CH165	0.16	30.00	Pass
11ac (VHT40)	CH151	-2.41	30.00	Pass
11ac (VHT40)	CH159	-2.68	30.00	Pass
11ac (VHT80)	CH155	-7.67	30.00	Pass

A.5 Conducted Emissions

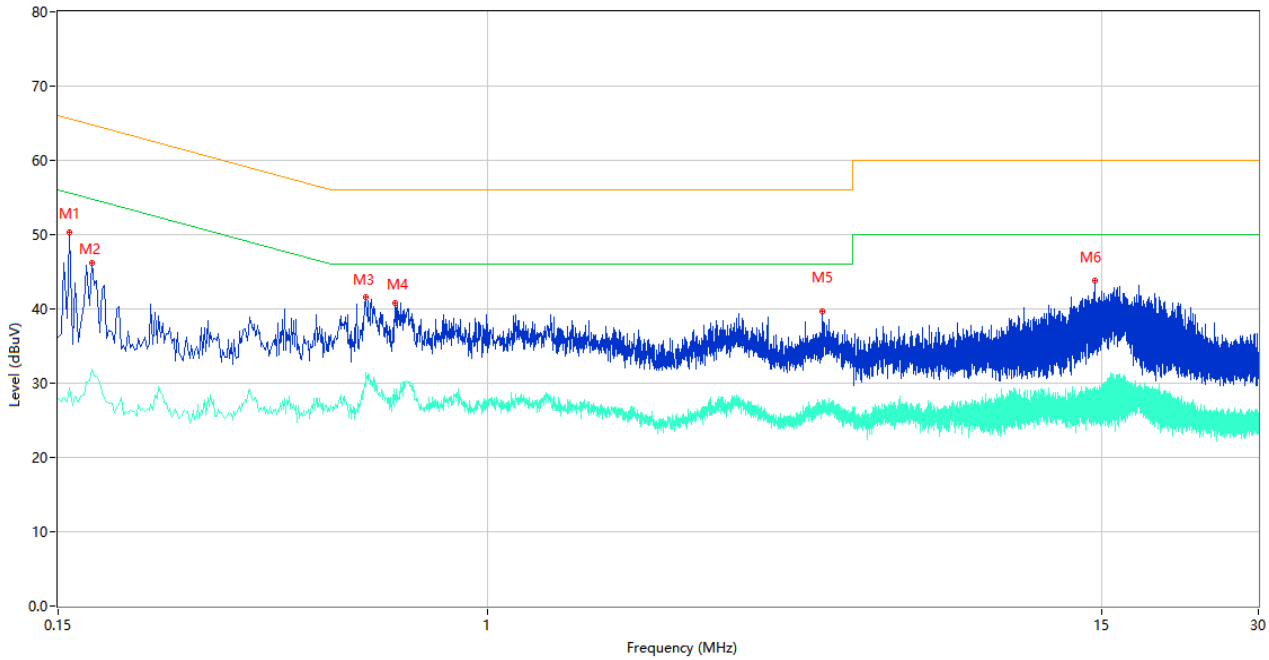
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note [2]: 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.

Note [3]: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

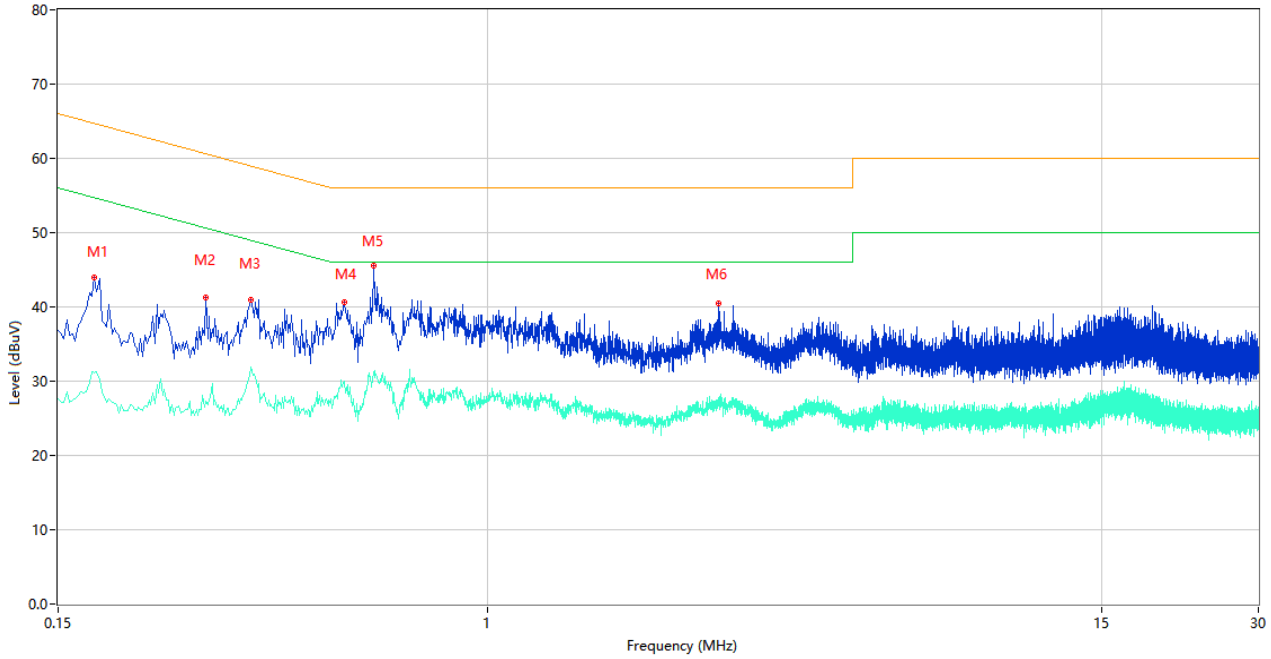
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	50.24	9.78	65.57	15.33	Peak	L	Pass
1**	0.158	29.32	9.78	55.57	26.25	AV	L	Pass
2	0.174	46.21	9.78	64.77	18.56	Peak	L	Pass
2**	0.174	31.89	9.78	54.77	22.88	AV	L	Pass
3	0.584	41.64	10.12	56.00	14.36	Peak	L	Pass
3**	0.584	31.41	10.12	46.00	14.59	AV	L	Pass
4	0.664	40.81	10.34	56.00	15.19	Peak	L	Pass
4**	0.664	28.42	10.34	46.00	17.58	AV	L	Pass
5	4.380	39.64	10.30	56.00	16.36	Peak	L	Pass
5**	4.380	27.73	10.30	46.00	18.27	AV	L	Pass
6	14.562	43.83	10.60	60.00	16.17	Peak	L	Pass
6**	14.562	28.06	10.60	50.00	21.94	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.176	44.01	9.78	64.67	20.66	Peak	N	Pass
1**	0.176	31.13	9.78	54.67	23.54	AV	N	Pass
2	0.288	41.29	9.76	60.58	19.29	Peak	N	Pass
2**	0.288	27.25	9.76	50.58	23.33	AV	N	Pass
3	0.352	40.95	10.75	58.92	17.97	Peak	N	Pass
3**	0.352	31.97	10.75	48.92	16.95	AV	N	Pass
4	0.530	40.56	10.01	56.00	15.44	Peak	N	Pass
4**	0.530	29.95	10.01	46.00	16.05	AV	N	Pass
5	0.604	45.62	10.17	56.00	10.38	Peak	N	Pass
5**	0.604	31.34	10.17	46.00	14.66	AV	N	Pass
6	2.772	40.52	10.28	56.00	15.48	Peak	N	Pass
6**	2.772	27.28	10.28	46.00	18.72	AV	N	Pass

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

Note [1]: The symbol of "--" in the table which means not application.

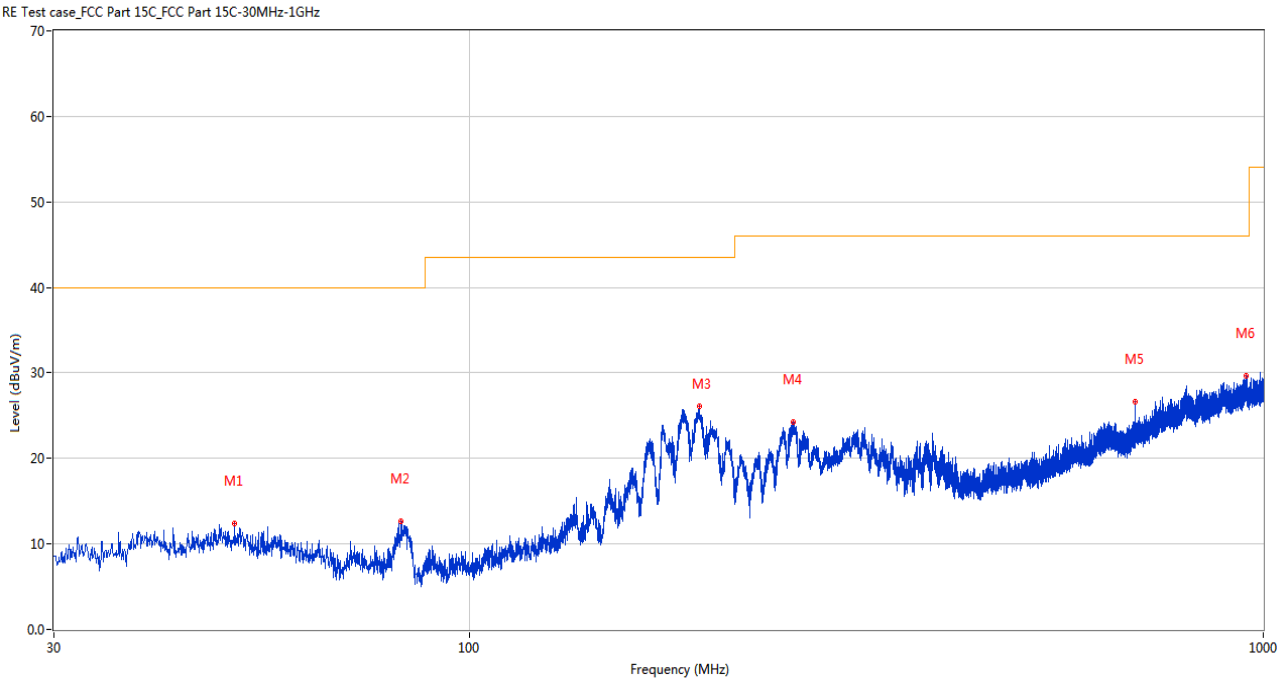
Note [2]: For the test data above 1 GHz，According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [3]: 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 [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

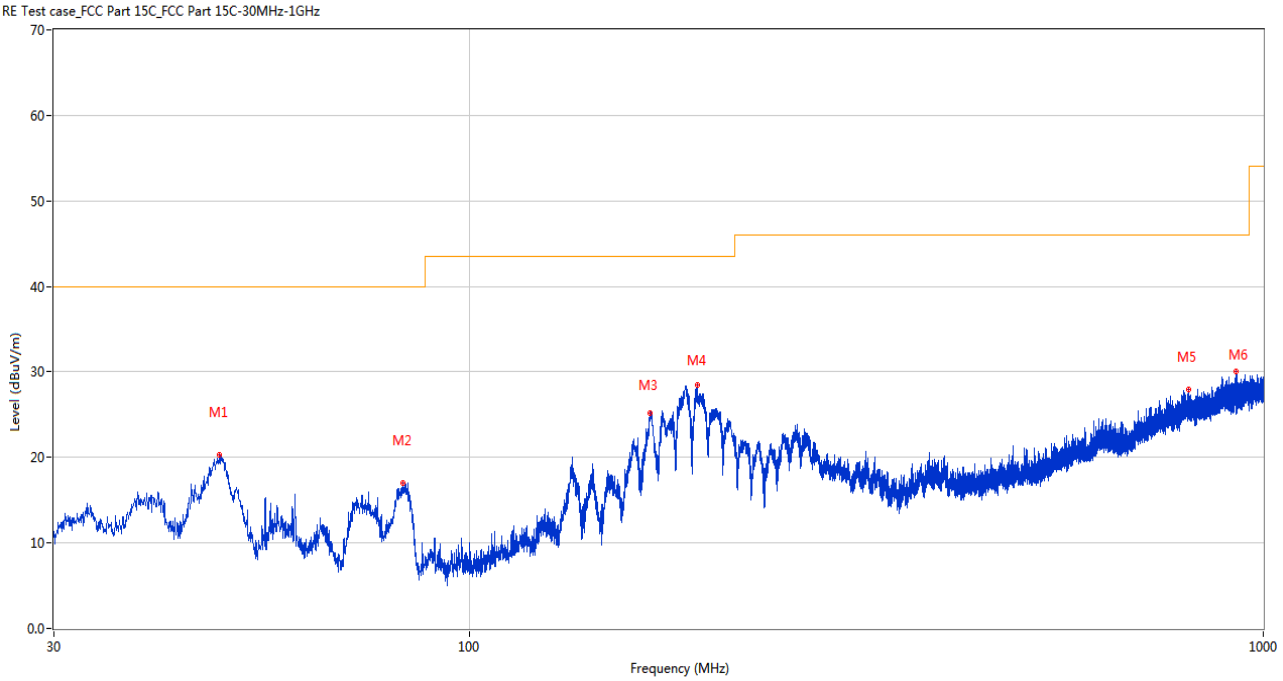
Test Data and Plots

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	50.612	12.39	-26.51	40.0	27.61	Peak	90.00	100	Horizontal	Pass
2	82.137	12.61	-30.52	40.0	27.39	Peak	177.00	200	Horizontal	Pass
3	194.803	26.09	-28.54	43.5	17.41	Peak	102.00	200	Horizontal	Pass
4	255.768	24.22	-26.48	46.0	21.78	Peak	4.00	100	Horizontal	Pass
5	688.969	26.59	-14.88	46.0	19.41	Peak	93.00	100	Horizontal	Pass
6	951.403	29.63	-9.82	46.0	16.37	Peak	16.00	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	48.527	20.26	-26.92	40.0	19.74	Peak	27.00	100	Vertical	Pass
2	82.525	17.00	-30.51	40.0	23.00	Peak	348.00	100	Vertical	Pass
3	168.904	25.19	-25.69	43.5	18.31	Peak	64.00	100	Vertical	Pass
4	193.688	28.46	-28.40	43.5	15.04	Peak	24.00	100	Vertical	Pass
5	804.787	27.97	-11.81	46.0	18.03	Peak	319.00	100	Vertical	Pass
6	923.855	30.03	-10.71	46.0	15.97	Peak	258.00	100	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	1453.100	39.18	-17.05	74.0	34.82	Peak	308.00	100	Horizontal	Pass
1**	1453.100	29.83	-17.05	54.0	24.17	AV	308.00	100	Horizontal	Pass
2	4385.200	50.22	-3.43	74.0	23.78	Peak	135.00	200	Horizontal	Pass
2**	4385.200	41.24	-3.43	54.0	12.76	AV	135.00	200	Horizontal	Pass
3	5178.200	105.31	-2.52	--	--	Peak	302.00	100	Horizontal	N/A
3**	5178.200	98.45	-2.52	--	--	AV	302.00	100	Horizontal	N/A
4	7339.537	49.90	-2.93	74.0	24.10	Peak	21.00	200	Horizontal	Pass
4**	7339.537	41.12	-2.93	54.0	12.88	AV	21.00	200	Horizontal	Pass
5	12319.037	52.99	1.42	74.0	21.01	Peak	3.00	150	Horizontal	Pass
5**	12319.037	43.69	1.42	54.0	10.31	AV	3.00	150	Horizontal	Pass
6	16076.401	55.70	1.57	74.0	18.30	Peak	269.00	200	Horizontal	Pass
6**	16076.401	46.56	1.57	54.0	7.44	AV	269.00	200	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	1521.500	39.30	-17.31	74.0	34.70	Peak	50.00	400	Vertical	Pass
1**	1521.500	29.26	-17.31	54.0	24.74	AV	50.00	400	Vertical	Pass
2	4379.200	49.55	-3.34	74.0	24.45	Peak	247.00	200	Vertical	Pass
2**	4379.200	42.61	-3.34	54.0	11.39	AV	247.00	200	Vertical	Pass
3	5178.600	104.46	-2.53	--	--	Peak	88.00	200	Vertical	N/A
3**	5178.600	98.09	-2.53	--	--	AV	88.00	200	Vertical	N/A
4	7336.663	49.64	-3.07	74.0	24.36	Peak	95.00	300	Vertical	Pass
4**	7336.663	41.00	-3.07	54.0	13.00	AV	95.00	300	Vertical	Pass
5	12304.950	53.56	1.39	74.0	20.44	Peak	24.00	200	Vertical	Pass
5**	12304.950	43.37	1.39	54.0	10.63	AV	24.00	200	Vertical	Pass
6	15809.175	55.62	2.18	74.0	18.38	Peak	169.00	200	Vertical	Pass
6**	15809.175	46.30	2.18	54.0	7.70	AV	169.00	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	1458.600	38.99	-16.98	74.0	35.01	Peak	329.00	400	Horizontal	Pass
1**	1458.600	29.79	-16.98	54.0	24.21	AV	329.00	400	Horizontal	Pass
2	4379.400	50.16	-3.32	74.0	23.84	Peak	330.00	300	Horizontal	Pass
2**	4379.400	41.48	-3.32	54.0	12.52	AV	330.00	300	Horizontal	Pass
3	5221.600	105.15	-2.69	--	--	Peak	300.00	150	Horizontal	N/A
3**	5221.600	98.20	-2.69	--	--	AV	300.00	150	Horizontal	N/A
4	7608.925	49.46	-2.99	74.0	24.54	Peak	25.00	400	Horizontal	Pass
4**	7608.925	39.13	-2.99	54.0	14.87	AV	25.00	400	Horizontal	Pass
5	12284.537	53.05	1.78	74.0	20.95	Peak	9.00	200	Horizontal	Pass
5**	12284.537	44.27	1.78	54.0	9.73	AV	9.00	200	Horizontal	Pass
6	15399.675	55.85	0.76	74.0	18.15	Peak	336.00	400	Horizontal	Pass
6**	15399.675	45.89	0.76	54.0	8.11	AV	336.00	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	1586.100	38.63	-16.85	74.0	35.37	Peak	320.00	100	Vertical	Pass
1**	1586.100	30.18	-16.85	54.0	23.82	AV	320.00	100	Vertical	Pass
2	4388.200	50.89	-3.41	74.0	23.11	Peak	200.00	100	Vertical	Pass
2**	4388.200	41.82	-3.41	54.0	12.18	AV	200.00	100	Vertical	Pass
3	5218.400	105.21	-2.82	--	--	Peak	352.00	100	Vertical	N/A
3**	5218.400	97.47	-2.82	--	--	AV	352.00	100	Vertical	N/A
4	7374.325	49.49	-3.77	74.0	24.51	Peak	184.00	200	Vertical	Pass
4**	7374.325	39.30	-3.77	54.0	14.70	AV	184.00	200	Vertical	Pass
5	12310.988	53.49	1.38	74.0	20.51	Peak	39.00	150	Vertical	Pass
5**	12310.988	43.96	1.38	54.0	10.04	AV	39.00	150	Vertical	Pass
6	16111.313	55.48	0.74	74.0	18.52	Peak	202.00	100	Vertical	Pass
6**	16111.313	46.52	0.74	54.0	7.48	AV	202.00	100	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	1500.200	38.63	-16.90	74.0	35.37	Peak	91.00	100	Horizontal	Pass
1**	1500.200	29.53	-16.90	54.0	24.47	AV	91.00	100	Horizontal	Pass
2	4380.000	50.15	-3.32	74.0	23.85	Peak	138.00	300	Horizontal	Pass
2**	4380.000	41.52	-3.32	54.0	12.48	AV	138.00	300	Horizontal	Pass
3	5244.000	105.47	-2.38	--	--	Peak	310.00	200	Horizontal	N/A
3**	5244.000	97.72	-2.38	--	--	AV	310.00	200	Horizontal	N/A
4	7451.663	50.80	-3.17	74.0	23.20	Peak	11.00	100	Horizontal	Pass
4**	7451.663	40.04	-3.17	54.0	13.96	AV	11.00	100	Horizontal	Pass
5	12601.650	53.35	1.91	74.0	20.65	Peak	0.00	150	Horizontal	Pass
5**	12601.650	44.23	1.91	54.0	9.77	AV	0.00	150	Horizontal	Pass
6	15802.875	55.22	2.30	74.0	18.78	Peak	211.00	150	Horizontal	Pass
6**	15802.875	46.85	2.30	54.0	7.15	AV	211.00	150	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	1493.700	38.83	-16.88	74.0	35.17	Peak	232.00	200	Vertical	Pass
1**	1493.700	31.18	-16.88	54.0	22.82	AV	232.00	200	Vertical	Pass
2	4382.000	49.93	-3.64	74.0	24.07	Peak	0.00	100	Vertical	Pass
2**	4382.000	41.15	-3.64	54.0	12.85	AV	0.00	100	Vertical	Pass
3	5241.200	105.18	-2.61	--	--	Peak	358.00	150	Vertical	N/A
3**	5241.200	97.32	-2.61	--	--	AV	358.00	150	Vertical	N/A
4	7686.263	49.63	-1.94	74.0	24.37	Peak	205.00	200	Vertical	Pass
4**	7686.263	41.09	-1.94	54.0	12.91	AV	205.00	200	Vertical	Pass
5	12346.350	53.03	1.27	74.0	20.97	Peak	81.00	150	Vertical	Pass
5**	12346.350	43.17	1.27	54.0	10.83	AV	81.00	150	Vertical	Pass
6	15806.550	56.00	2.24	74.0	18.00	Peak	164.00	400	Vertical	Pass
6**	15806.550	46.12	2.24	54.0	7.88	AV	164.00	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	1604.000	39.06	-17.43	74.0	34.94	Peak	58.00	400	Horizontal	Pass
1**	1604.000	29.48	-17.43	54.0	24.52	AV	58.00	400	Horizontal	Pass
2	4383.800	50.30	-3.64	74.0	23.70	Peak	359.00	400	Horizontal	Pass
2**	4383.800	41.82	-3.64	54.0	12.18	AV	359.00	400	Horizontal	Pass
3	5178.600	103.17	-2.53	--	--	Peak	311.00	100	Horizontal	N/A
3**	5178.600	95.48	-2.53	--	--	AV	311.00	100	Horizontal	N/A
4	7457.413	49.83	-3.67	74.0	24.17	Peak	0.00	200	Horizontal	Pass
4**	7457.413	39.59	-3.67	54.0	14.41	AV	0.00	200	Horizontal	Pass
5	12602.800	53.28	1.91	74.0	20.72	Peak	233.00	200	Horizontal	Pass
5**	12602.800	43.60	1.91	54.0	10.40	AV	233.00	200	Horizontal	Pass
6	15848.025	55.82	1.35	74.0	18.18	Peak	175.00	100	Horizontal	Pass
6**	15848.025	46.74	1.35	54.0	7.26	AV	175.00	100	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	1471.300	38.68	-17.40	74.0	35.32	Peak	310.00	200	Vertical	Pass
1**	1471.300	29.96	-17.40	54.0	24.04	AV	310.00	200	Vertical	Pass
2	4388.600	50.45	-3.39	74.0	23.55	Peak	7.00	300	Vertical	Pass
2**	4388.600	41.81	-3.39	54.0	12.19	AV	7.00	300	Vertical	Pass
3	5181.400	102.46	-2.65	--	--	Peak	357.00	200	Vertical	N/A
3**	5181.400	95.49	-2.65	--	--	AV	357.00	200	Vertical	N/A
4	7332.925	49.66	-3.17	74.0	24.34	Peak	124.00	300	Vertical	Pass
4**	7332.925	41.18	-3.17	54.0	12.82	AV	124.00	300	Vertical	Pass
5	12228.763	53.06	1.30	74.0	20.94	Peak	345.00	100	Vertical	Pass
5**	12228.763	43.87	1.30	54.0	10.13	AV	345.00	100	Vertical	Pass
6	16131.526	55.74	1.03	74.0	18.26	Peak	99.00	300	Vertical	Pass
6**	16131.526	45.92	1.03	54.0	8.08	AV	99.00	300	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	1597.200	38.67	-17.17	74.0	35.33	Peak	174.00	100	Horizontal	Pass
1**	1597.200	30.04	-17.17	54.0	23.96	AV	174.00	100	Horizontal	Pass
2	4390.000	50.01	-3.32	74.0	23.99	Peak	310.00	300	Horizontal	Pass
2**	4390.000	41.57	-3.32	54.0	12.43	AV	310.00	300	Horizontal	Pass
3	5222.000	103.55	-2.69	--	--	Peak	310.00	100	Horizontal	N/A
3**	5222.000	95.75	-2.69	--	--	AV	310.00	100	Horizontal	N/A
4	7685.112	49.66	-2.29	74.0	24.34	Peak	125.00	300	Horizontal	Pass
4**	7685.112	40.25	-2.29	54.0	13.75	AV	125.00	300	Horizontal	Pass
5	12256.075	53.66	1.00	74.0	20.34	Peak	107.00	200	Horizontal	Pass
5**	12256.075	43.98	1.00	54.0	10.02	AV	107.00	200	Horizontal	Pass
6	15868.500	56.40	0.68	74.0	17.60	Peak	148.00	100	Horizontal	Pass
6**	15868.500	45.92	0.68	54.0	8.08	AV	148.00	100	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	1457.500	38.89	-17.02	74.0	35.11	Peak	170.00	400	Vertical	Pass
1**	1457.500	29.97	-17.02	54.0	24.03	AV	170.00	400	Vertical	Pass
2	2290.700	43.98	-12.63	74.0	30.02	Peak	342.00	150	Vertical	Pass
2**	2290.700	33.53	-12.63	54.0	20.47	AV	342.00	150	Vertical	Pass
3	4871.600	53.14	-2.69	74.0	20.86	Peak	293.00	150	Vertical	Pass
3**	4871.600	42.80	-2.69	54.0	11.20	AV	293.00	150	Vertical	Pass
4	5222.400	102.70	-2.70	--	--	Peak	357.00	100	Vertical	N/A
4**	5222.400	95.02	-2.70	--	--	AV	357.00	100	Vertical	N/A
5	12417.075	53.56	1.40	74.0	20.44	Peak	46.00	100	Vertical	Pass
5**	12417.075	43.13	1.40	54.0	10.87	AV	46.00	100	Vertical	Pass
6	16081.125	55.83	1.62	74.0	18.17	Peak	360.00	200	Vertical	Pass
6**	16081.125	46.49	1.62	54.0	7.51	AV	360.00	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	1522.400	38.76	-17.33	74.0	35.24	Peak	323.00	100	Horizontal	Pass
1**	1522.400	29.27	-17.33	54.0	24.73	AV	323.00	100	Horizontal	Pass
2	4380.000	50.12	-3.32	74.0	23.88	Peak	242.00	200	Horizontal	Pass
2**	4380.000	42.84	-3.32	54.0	11.16	AV	242.00	200	Horizontal	Pass
3	5242.400	102.80	-2.41	--	--	Peak	304.00	150	Horizontal	N/A
3**	5242.400	94.91	-2.41	--	--	AV	304.00	150	Horizontal	N/A
4	7673.900	49.70	-2.34	74.0	24.30	Peak	215.00	100	Horizontal	Pass
4**	7673.900	40.07	-2.34	54.0	13.93	AV	215.00	100	Horizontal	Pass
5	12277.638	53.54	1.72	74.0	20.46	Peak	171.00	200	Horizontal	Pass
5**	12277.638	43.99	1.72	54.0	10.01	AV	171.00	200	Horizontal	Pass
6	15806.026	56.39	2.25	74.0	17.61	Peak	38.00	400	Horizontal	Pass
6**	15806.026	47.12	2.25	54.0	6.88	AV	38.00	400	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	1614.600	38.71	-17.51	74.0	35.29	Peak	187.00	400	Vertical	Pass
1**	1614.600	29.20	-17.51	54.0	24.80	AV	187.00	400	Vertical	Pass
2	4381.200	50.11	-3.52	74.0	23.89	Peak	299.00	400	Vertical	Pass
2**	4381.200	42.30	-3.52	54.0	11.70	AV	299.00	400	Vertical	Pass
3	5243.000	102.38	-2.39	--	--	Peak	354.00	150	Vertical	N/A
3**	5243.000	95.10	-2.39	--	--	AV	354.00	150	Vertical	N/A
4	7622.437	49.39	-3.07	74.0	24.61	Peak	323.00	200	Vertical	Pass
4**	7622.437	40.00	-3.07	54.0	14.00	AV	323.00	200	Vertical	Pass
5	11946.150	53.15	1.51	74.0	20.85	Peak	0.00	200	Vertical	Pass
5**	11946.150	43.59	1.51	54.0	10.41	AV	0.00	200	Vertical	Pass
6	16087.950	55.55	1.47	74.0	18.45	Peak	327.00	300	Vertical	Pass
6**	16087.950	46.13	1.47	54.0	7.87	AV	327.00	300	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	1502.300	38.99	-17.03	74.0	35.01	Peak	123.00	400	Horizontal	Pass
1**	1502.300	29.80	-17.03	54.0	24.20	AV	123.00	400	Horizontal	Pass
2	4381.200	50.63	-3.52	74.0	23.37	Peak	325.00	100	Horizontal	Pass
2**	4381.200	41.76	-3.52	54.0	12.24	AV	325.00	100	Horizontal	Pass
3	5191.800	100.24	-2.27	--	--	Peak	312.00	200	Horizontal	N/A
3**	5191.800	92.80	-2.27	--	--	AV	312.00	200	Horizontal	N/A
4	7442.462	49.88	-3.35	74.0	24.12	Peak	229.00	200	Horizontal	Pass
4**	7442.462	40.49	-3.35	54.0	13.51	AV	229.00	200	Horizontal	Pass
5	11942.125	52.86	1.62	74.0	21.14	Peak	266.00	150	Horizontal	Pass
5**	11942.125	44.23	1.62	54.0	9.77	AV	266.00	150	Horizontal	Pass
6	15841.988	55.73	1.42	74.0	18.27	Peak	147.00	200	Horizontal	Pass
6**	15841.988	47.01	1.42	54.0	6.99	AV	147.00	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	1576.500	39.50	-17.35	74.0	34.50	Peak	108.00	100	Vertical	Pass
1**	1576.500	28.75	-17.35	54.0	25.25	AV	108.00	100	Vertical	Pass
2	4299.800	50.16	-4.17	74.0	23.84	Peak	58.00	300	Vertical	Pass
2**	4299.800	40.91	-4.17	54.0	13.09	AV	58.00	300	Vertical	Pass
3	5188.200	100.95	-2.34	--	--	Peak	350.00	100	Vertical	N/A
3**	5188.200	94.20	-2.34	--	--	AV	350.00	100	Vertical	N/A
4	7461.725	49.54	-3.52	74.0	24.46	Peak	80.00	200	Vertical	Pass
4**	7461.725	40.67	-3.52	54.0	13.33	AV	80.00	200	Vertical	Pass
5	12287.412	53.86	1.72	74.0	20.14	Peak	38.00	100	Vertical	Pass
5**	12287.412	44.62	1.72	54.0	9.38	AV	38.00	100	Vertical	Pass
6	15626.213	55.75	1.72	74.0	18.25	Peak	242.00	300	Vertical	Pass
6**	15626.213	46.84	1.72	54.0	7.16	AV	242.00	300	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	1523.500	39.28	-17.36	74.0	34.72	Peak	1.00	400	Horizontal	Pass
1**	1523.500	30.14	-17.36	54.0	23.86	AV	1.00	400	Horizontal	Pass
2	4388.800	51.04	-3.38	74.0	22.96	Peak	216.00	100	Horizontal	Pass
2**	4388.800	42.10	-3.38	54.0	11.90	AV	216.00	100	Horizontal	Pass
3	5225.800	100.23	-2.59	--	--	Peak	310.00	200	Horizontal	N/A
3**	5225.800	92.22	-2.59	--	--	AV	310.00	200	Horizontal	N/A
4	7378.925	49.75	-3.47	74.0	24.25	Peak	0.00	400	Horizontal	Pass
4**	7378.925	40.75	-3.47	54.0	13.25	AV	0.00	400	Horizontal	Pass
5	12266.713	52.68	1.35	74.0	21.32	Peak	76.00	200	Horizontal	Pass
5**	12266.713	44.04	1.35	54.0	9.96	AV	76.00	200	Horizontal	Pass
6	15805.500	55.67	2.26	74.0	18.33	Peak	215.00	300	Horizontal	Pass
6**	15805.500	46.70	2.26	54.0	7.30	AV	215.00	300	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	1588.000	39.58	-17.07	74.0	34.42	Peak	278.00	100	Vertical	Pass
1**	1588.000	29.63	-17.07	54.0	24.37	AV	278.00	100	Vertical	Pass
2	4385.400	50.33	-3.40	74.0	23.67	Peak	220.00	300	Vertical	Pass
2**	4385.400	41.32	-3.40	54.0	12.68	AV	220.00	300	Vertical	Pass
3	5231.600	100.14	-2.57	--	--	Peak	360.00	100	Vertical	N/A
3**	5231.600	92.44	-2.57	--	--	AV	360.00	100	Vertical	N/A
4	7342.125	49.97	-3.19	74.0	24.03	Peak	226.00	400	Vertical	Pass
4**	7342.125	40.70	-3.19	54.0	13.30	AV	226.00	400	Vertical	Pass
5	12279.650	53.33	1.79	74.0	20.67	Peak	337.00	200	Vertical	Pass
5**	12279.650	44.28	1.79	54.0	9.72	AV	337.00	200	Vertical	Pass
6	16103.175	56.31	1.06	74.0	17.69	Peak	174.00	100	Vertical	Pass
6**	16103.175	45.83	1.06	54.0	8.17	AV	174.00	100	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	1491.000	38.92	-16.81	74.0	35.08	Peak	213.00	300	Horizontal	Pass
1**	1491.000	29.95	-16.81	54.0	24.05	AV	213.00	300	Horizontal	Pass
2	4274.000	49.88	-4.90	74.0	24.12	Peak	34.00	300	Horizontal	Pass
2**	4274.000	40.11	-4.90	54.0	13.89	AV	34.00	300	Horizontal	Pass
3	5180.800	102.20	-2.68	--	--	Peak	314.00	200	Horizontal	N/A
3**	5180.800	94.56	-2.68	--	--	AV	314.00	200	Horizontal	N/A
4	7346.150	49.54	-3.53	74.0	24.46	Peak	38.00	400	Horizontal	Pass
4**	7346.150	41.19	-3.53	54.0	12.81	AV	38.00	400	Horizontal	Pass
5	12278.213	53.63	1.74	74.0	20.37	Peak	173.00	200	Horizontal	Pass
5**	12278.213	44.06	1.74	54.0	9.94	AV	173.00	200	Horizontal	Pass
6	15507.037	55.50	1.34	74.0	18.50	Peak	258.00	400	Horizontal	Pass
6**	15507.037	45.94	1.34	54.0	8.06	AV	258.00	400	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	1564.200	39.20	-17.32	74.0	34.80	Peak	182.00	300	Vertical	Pass
1**	1564.200	28.87	-17.32	54.0	25.13	AV	182.00	300	Vertical	Pass
2	4396.800	50.91	-4.02	74.0	23.09	Peak	167.00	200	Vertical	Pass
2**	4396.800	41.08	-4.02	54.0	12.92	AV	167.00	200	Vertical	Pass
3	5182.400	102.80	-2.58	--	--	Peak	350.00	150	Vertical	N/A
3**	5182.400	95.64	-2.58	--	--	AV	350.00	150	Vertical	N/A
4	7340.400	49.64	-3.01	74.0	24.36	Peak	200.00	200	Vertical	Pass
4**	7340.400	40.80	-3.01	54.0	13.20	AV	200.00	200	Vertical	Pass
5	11215.612	53.63	-0.19	74.0	20.37	Peak	268.00	100	Vertical	Pass
5**	11215.612	43.01	-0.19	54.0	10.99	AV	268.00	100	Vertical	Pass
6	15874.013	55.40	0.44	74.0	18.60	Peak	64.00	200	Vertical	Pass
6**	15874.013	45.75	0.44	54.0	8.25	AV	64.00	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	1572.200	39.01	-17.05	74.0	34.99	Peak	166.00	100	Horizontal	Pass
1**	1572.200	29.73	-17.05	54.0	24.27	AV	166.00	100	Horizontal	Pass
2	4388.800	50.25	-3.38	74.0	23.75	Peak	220.00	200	Horizontal	Pass
2**	4388.800	41.18	-3.38	54.0	12.82	AV	220.00	200	Horizontal	Pass
3	5221.200	102.66	-2.69	--	--	Peak	307.00	200	Horizontal	N/A
3**	5221.200	95.72	-2.69	--	--	AV	307.00	200	Horizontal	N/A
4	7331.200	50.05	-3.38	74.0	23.95	Peak	19.00	300	Horizontal	Pass
4**	7331.200	41.09	-3.38	54.0	12.91	AV	19.00	300	Horizontal	Pass
5	10939.037	53.15	-0.05	74.0	20.85	Peak	187.00	200	Horizontal	Pass
5**	10939.037	43.43	-0.05	54.0	10.57	AV	187.00	200	Horizontal	Pass
6	15511.238	55.72	1.43	74.0	18.28	Peak	282.00	400	Horizontal	Pass
6**	15511.238	46.00	1.43	54.0	8.00	AV	282.00	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	1500.100	38.80	-16.92	74.0	35.20	Peak	167.00	400	Vertical	Pass
1**	1500.100	30.43	-16.92	54.0	23.57	AV	167.00	400	Vertical	Pass
2	4381.400	50.22	-3.56	74.0	23.78	Peak	359.00	300	Vertical	Pass
2**	4381.400	41.27	-3.56	54.0	12.73	AV	359.00	300	Vertical	Pass
3	5217.600	102.73	-2.74	--	--	Peak	359.00	100	Vertical	N/A
3**	5217.600	94.87	-2.74	--	--	AV	359.00	100	Vertical	N/A
4	7333.788	49.70	-3.14	74.0	24.30	Peak	172.00	200	Vertical	Pass
4**	7333.788	40.62	-3.14	54.0	13.38	AV	172.00	200	Vertical	Pass
5	12598.200	53.07	1.86	74.0	20.93	Peak	83.00	150	Vertical	Pass
5**	12598.200	43.57	1.86	54.0	10.43	AV	83.00	150	Vertical	Pass
6	15671.099	55.64	1.45	74.0	18.36	Peak	205.00	200	Vertical	Pass
6**	15671.099	45.83	1.45	54.0	8.17	AV	205.00	200	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	1506.200	39.24	-16.83	74.0	34.76	Peak	0.00	400	Horizontal	Pass
1**	1506.200	30.14	-16.83	54.0	23.86	AV	0.00	400	Horizontal	Pass
2	4373.800	50.44	-3.88	74.0	23.56	Peak	305.00	200	Horizontal	Pass
2**	4373.800	41.20	-3.88	54.0	12.80	AV	305.00	200	Horizontal	Pass
3	5238.400	104.16	-2.57	--	--	Peak	30.00	150	Horizontal	N/A
3**	5238.400	97.51	-2.57	--	--	AV	30.00	150	Horizontal	N/A
4	7733.700	49.65	-2.47	74.0	24.35	Peak	115.00	100	Horizontal	Pass
4**	7733.700	40.12	-2.47	54.0	13.88	AV	115.00	100	Horizontal	Pass
5	12572.613	52.92	1.72	74.0	21.08	Peak	266.00	100	Horizontal	Pass
5**	12572.613	42.88	1.72	54.0	11.12	AV	266.00	100	Horizontal	Pass
6	15815.474	55.59	2.04	74.0	18.41	Peak	208.00	150	Horizontal	Pass
6**	15815.474	45.86	2.04	54.0	8.14	AV	208.00	150	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	1502.300	39.08	-17.03	74.0	34.92	Peak	77.00	400	Vertical	Pass
1**	1502.300	30.09	-17.03	54.0	23.91	AV	77.00	400	Vertical	Pass
2	4386.200	50.22	-3.27	74.0	23.78	Peak	344.00	200	Vertical	Pass
2**	4386.200	41.98	-3.27	54.0	12.02	AV	344.00	200	Vertical	Pass
3	5239.000	103.70	-2.62	--	--	Peak	357.00	150	Vertical	N/A
3**	5239.000	97.13	-2.62	--	--	AV	357.00	150	Vertical	N/A
4	7335.800	49.75	-3.23	74.0	24.25	Peak	125.00	400	Vertical	Pass
4**	7335.800	40.70	-3.23	54.0	13.30	AV	125.00	400	Vertical	Pass
5	12514.250	52.91	1.54	74.0	21.09	Peak	43.00	100	Vertical	Pass
5**	12514.250	43.08	1.54	54.0	10.92	AV	43.00	100	Vertical	Pass
6	15844.612	56.13	1.37	74.0	17.87	Peak	360.00	300	Vertical	Pass
6**	15844.612	46.74	1.37	54.0	7.26	AV	360.00	300	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	1493.500	39.03	-16.88	74.0	34.97	Peak	52.00	100	Horizontal	Pass
1**	1493.500	30.59	-16.88	54.0	23.41	AV	52.00	100	Horizontal	Pass
2	4278.200	50.06	-4.53	74.0	23.94	Peak	358.00	200	Horizontal	Pass
2**	4278.200	40.50	-4.53	54.0	13.50	AV	358.00	200	Horizontal	Pass
3	5191.800	101.17	-2.27	--	--	Peak	308.00	100	Horizontal	N/A
3**	5191.800	93.90	-2.27	--	--	AV	308.00	100	Horizontal	N/A
4	7339.537	49.75	-2.93	74.0	24.25	Peak	70.00	100	Horizontal	Pass
4**	7339.537	40.84	-2.93	54.0	13.16	AV	70.00	100	Horizontal	Pass
5	12234.225	53.00	1.18	74.0	21.00	Peak	346.00	150	Horizontal	Pass
5**	12234.225	43.54	1.18	54.0	10.46	AV	346.00	150	Horizontal	Pass
6	16100.813	56.02	1.16	74.0	17.98	Peak	83.00	200	Horizontal	Pass
6**	16100.813	46.17	1.16	54.0	7.83	AV	83.00	200	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	1562.400	39.35	-16.82	74.0	34.65	Peak	288.00	200	Vertical	Pass
1**	1562.400	29.35	-16.82	54.0	24.65	AV	288.00	200	Vertical	Pass
2	4396.600	50.69	-4.00	74.0	23.31	Peak	210.00	200	Vertical	Pass
2**	4396.600	40.65	-4.00	54.0	13.35	AV	210.00	200	Vertical	Pass
3	5188.200	101.16	-2.34	--	--	Peak	349.00	150	Vertical	N/A
3**	5188.200	93.39	-2.34	--	--	AV	349.00	150	Vertical	N/A
4	7404.800	49.49	-3.71	74.0	24.51	Peak	247.00	300	Vertical	Pass
4**	7404.800	40.35	-3.71	54.0	13.65	AV	247.00	300	Vertical	Pass
5	11931.201	53.03	1.59	74.0	20.97	Peak	34.00	200	Vertical	Pass
5**	11931.201	42.89	1.59	54.0	11.11	AV	34.00	200	Vertical	Pass
6	15407.813	55.99	0.76	74.0	18.01	Peak	360.00	100	Vertical	Pass
6**	15407.813	45.93	0.76	54.0	8.07	AV	360.00	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	1619.600	38.80	-17.56	74.0	35.20	Peak	357.00	300	Horizontal	Pass
1**	1619.600	29.39	-17.56	54.0	24.61	AV	357.00	300	Horizontal	Pass
2	4382.600	50.57	-3.64	74.0	23.43	Peak	109.00	200	Horizontal	Pass
2**	4382.600	41.99	-3.64	54.0	12.01	AV	109.00	200	Horizontal	Pass
3	5237.200	101.63	-2.53	--	--	Peak	312.00	200	Horizontal	N/A
3**	5237.200	92.84	-2.53	--	--	AV	312.00	200	Horizontal	N/A
4	7365.700	49.59	-3.41	74.0	24.41	Peak	190.00	400	Horizontal	Pass
4**	7365.700	40.40	-3.41	54.0	13.60	AV	190.00	400	Horizontal	Pass
5	12246.875	53.29	0.99	74.0	20.71	Peak	360.00	150	Horizontal	Pass
5**	12246.875	43.53	0.99	54.0	10.47	AV	360.00	150	Horizontal	Pass
6	15808.912	55.64	2.19	74.0	18.36	Peak	329.00	400	Horizontal	Pass
6**	15808.912	46.57	2.19	54.0	7.43	AV	329.00	400	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	1507.700	39.15	-16.96	74.0	34.85	Peak	66.00	200	Vertical	Pass
1**	1507.700	29.54	-16.96	54.0	24.46	AV	66.00	200	Vertical	Pass
2	4368.600	50.33	-3.87	74.0	23.67	Peak	0.00	300	Vertical	Pass
2**	4368.600	40.79	-3.87	54.0	13.21	AV	0.00	300	Vertical	Pass
3	5228.600	101.34	-2.68	--	--	Peak	354.00	100	Vertical	N/A
3**	5228.600	93.95	-2.68	--	--	AV	354.00	100	Vertical	N/A
4	7444.763	49.70	-3.20	74.0	24.30	Peak	167.00	300	Vertical	Pass
4**	7444.763	40.66	-3.20	54.0	13.34	AV	167.00	300	Vertical	Pass
5	12456.463	53.47	1.86	74.0	20.53	Peak	0.00	150	Vertical	Pass
5**	12456.463	43.18	1.86	54.0	10.82	AV	0.00	150	Vertical	Pass
6	16083.225	56.12	1.57	74.0	17.88	Peak	314.00	200	Vertical	Pass
6**	16083.225	45.95	1.57	54.0	8.05	AV	314.00	200	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	1622.400	39.35	-16.91	74.0	34.65	Peak	5.00	400	Horizontal	Pass
1**	1622.400	29.34	-16.91	54.0	24.66	AV	5.00	400	Horizontal	Pass
2	4380.000	51.16	-3.32	74.0	22.84	Peak	8.00	100	Horizontal	Pass
2**	4380.000	41.85	-3.32	54.0	12.15	AV	8.00	100	Horizontal	Pass
3	5207.600	96.68	-2.32	--	--	Peak	305.00	150	Horizontal	N/A
3**	5207.600	89.08	-2.32	--	--	AV	305.00	150	Horizontal	N/A
4	7337.238	50.16	-2.96	74.0	23.84	Peak	292.00	400	Horizontal	Pass
4**	7337.238	41.31	-2.96	54.0	12.69	AV	292.00	400	Horizontal	Pass
5	12504.762	53.46	1.68	74.0	20.54	Peak	64.00	150	Horizontal	Pass
5**	12504.762	42.47	1.68	54.0	11.53	AV	64.00	150	Horizontal	Pass
6	15806.026	55.88	2.25	74.0	18.12	Peak	210.00	200	Horizontal	Pass
6**	15806.026	47.68	2.25	54.0	6.32	AV	210.00	200	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	1510.000	39.38	-17.19	74.0	34.62	Peak	91.00	300	Vertical	Pass
1**	1510.000	29.57	-17.19	54.0	24.43	AV	91.00	300	Vertical	Pass
2	4391.400	50.39	-3.43	74.0	23.61	Peak	0.00	100	Vertical	Pass
2**	4391.400	41.18	-3.43	54.0	12.82	AV	0.00	100	Vertical	Pass
3	5213.800	96.59	-2.33	--	--	Peak	354.00	200	Vertical	N/A
3**	5213.800	88.93	-2.33	--	--	AV	354.00	200	Vertical	N/A
4	7678.213	50.03	-2.51	74.0	23.97	Peak	0.00	300	Vertical	Pass
4**	7678.213	41.23	-2.51	54.0	12.77	AV	0.00	300	Vertical	Pass
5	11618.400	53.18	-0.04	74.0	20.82	Peak	170.00	150	Vertical	Pass
5**	11618.400	43.97	-0.04	54.0	10.03	AV	170.00	150	Vertical	Pass
6	16091.888	55.50	1.39	74.0	18.50	Peak	114.00	400	Vertical	Pass
6**	16091.888	46.87	1.39	54.0	7.13	AV	114.00	400	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	1611.600	38.75	-17.14	74.0	35.25	Peak	120.00	300	Horizontal	Pass
1**	1611.600	29.50	-17.14	54.0	24.50	AV	120.00	300	Horizontal	Pass
2	4373.800	50.76	-3.88	74.0	23.24	Peak	113.00	200	Horizontal	Pass
2**	4373.800	41.19	-3.88	54.0	12.81	AV	113.00	200	Horizontal	Pass
3	5743.600	106.89	-2.09	--	--	Peak	293.00	200	Horizontal	N/A
3**	5743.600	99.90	-2.09	--	--	AV	293.00	200	Horizontal	N/A
4	7314.525	49.37	-3.36	74.0	24.63	Peak	143.00	200	Horizontal	Pass
4**	7314.525	39.42	-3.36	54.0	14.58	AV	143.00	200	Horizontal	Pass
5	12235.662	53.19	1.15	74.0	20.81	Peak	103.00	150	Horizontal	Pass
5**	12235.662	44.14	1.15	54.0	9.86	AV	103.00	150	Horizontal	Pass
6	15664.275	55.95	1.33	74.0	18.05	Peak	276.00	100	Horizontal	Pass
6**	15664.275	45.72	1.33	54.0	8.28	AV	276.00	100	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	1519.300	38.85	-17.26	74.0	35.15	Peak	57.00	400	Vertical	Pass
1**	1519.300	29.91	-17.26	54.0	24.09	AV	57.00	400	Vertical	Pass
2	4384.200	50.15	-3.61	74.0	23.85	Peak	280.00	200	Vertical	Pass
2**	4384.200	41.49	-3.61	54.0	12.51	AV	280.00	200	Vertical	Pass
3	5744.800	106.20	-2.12	--	--	Peak	292.00	100	Vertical	N/A
3**	5744.800	98.70	-2.12	--	--	AV	292.00	100	Vertical	N/A
4	7404.800	49.89	-3.71	74.0	24.11	Peak	345.00	300	Vertical	Pass
4**	7404.800	40.86	-3.71	54.0	13.14	AV	345.00	300	Vertical	Pass
5	12241.412	52.58	1.05	74.0	21.42	Peak	61.00	100	Vertical	Pass
5**	12241.412	43.91	1.05	54.0	10.09	AV	61.00	100	Vertical	Pass
6	15797.363	55.50	2.25	74.0	18.50	Peak	360.00	200	Vertical	Pass
6**	15797.363	46.45	2.25	54.0	7.55	AV	360.00	200	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	1616.200	38.91	-17.34	74.0	35.09	Peak	263.00	100	Horizontal	Pass
1**	1616.200	29.43	-17.34	54.0	24.57	AV	263.00	100	Horizontal	Pass
2	4386.200	50.94	-3.27	74.0	23.06	Peak	360.00	200	Horizontal	Pass
2**	4386.200	42.87	-3.27	54.0	11.13	AV	360.00	200	Horizontal	Pass
3	5783.800	107.25	-1.54	--	--	Peak	285.00	150	Horizontal	N/A
3**	5783.800	99.68	-1.54	--	--	AV	285.00	150	Horizontal	N/A
4	7330.337	49.38	-3.45	74.0	24.62	Peak	251.00	400	Horizontal	Pass
4**	7330.337	40.54	-3.45	54.0	13.46	AV	251.00	400	Horizontal	Pass
5	12282.237	53.76	1.79	74.0	20.24	Peak	157.00	150	Horizontal	Pass
5**	12282.237	45.23	1.79	54.0	8.77	AV	157.00	150	Horizontal	Pass
6	15789.750	55.70	2.00	74.0	18.30	Peak	106.00	100	Horizontal	Pass
6**	15789.750	47.47	2.00	54.0	6.53	AV	106.00	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	1556.600	39.23	-17.08	74.0	34.77	Peak	100.00	300	Vertical	Pass
1**	1556.600	29.03	-17.08	54.0	24.97	AV	100.00	300	Vertical	Pass
2	4390.000	50.35	-3.32	74.0	23.65	Peak	247.00	100	Vertical	Pass
2**	4390.000	41.62	-3.32	54.0	12.38	AV	247.00	100	Vertical	Pass
3	5783.800	107.13	-1.54	--	--	Peak	247.00	150	Vertical	N/A
3**	5783.800	100.10	-1.54	--	--	AV	247.00	150	Vertical	N/A
4	7681.662	49.55	-2.66	74.0	24.45	Peak	177.00	100	Vertical	Pass
4**	7681.662	39.70	-2.66	54.0	14.30	AV	177.00	100	Vertical	Pass
5	12300.063	54.00	1.47	74.0	20.00	Peak	233.00	150	Vertical	Pass
5**	12300.063	43.43	1.47	54.0	10.57	AV	233.00	150	Vertical	Pass
6	16040.700	55.85	0.79	74.0	18.15	Peak	344.00	200	Vertical	Pass
6**	16040.700	46.82	0.79	54.0	7.18	AV	344.00	200	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	1573.300	39.02	-17.09	74.0	34.98	Peak	307.00	100	Horizontal	Pass
1**	1573.300	29.29	-17.09	54.0	24.71	AV	307.00	100	Horizontal	Pass
2	4388.200	49.70	-3.41	74.0	24.30	Peak	250.00	300	Horizontal	Pass
2**	4388.200	41.74	-3.41	54.0	12.26	AV	250.00	300	Horizontal	Pass
3	5823.800	106.93	-2.13	--	--	Peak	307.00	150	Horizontal	N/A
3**	5823.800	99.96	-2.13	--	--	AV	307.00	150	Horizontal	N/A
4	7346.725	49.33	-3.60	74.0	24.67	Peak	0.00	400	Horizontal	Pass
4**	7346.725	40.76	-3.60	54.0	13.24	AV	0.00	400	Horizontal	Pass
5	12605.100	53.33	1.92	74.0	20.67	Peak	134.00	100	Horizontal	Pass
5**	12605.100	44.37	1.92	54.0	9.63	AV	134.00	100	Horizontal	Pass
6	15815.999	56.06	2.02	74.0	17.94	Peak	98.00	100	Horizontal	Pass
6**	15815.999	46.50	2.02	54.0	7.50	AV	98.00	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	1579.800	38.65	-17.38	74.0	35.35	Peak	360.00	400	Vertical	Pass
1**	1579.800	29.11	-17.38	54.0	24.89	AV	360.00	400	Vertical	Pass
2	4393.000	50.73	-3.64	74.0	23.27	Peak	30.00	100	Vertical	Pass
2**	4393.000	41.13	-3.64	54.0	12.87	AV	30.00	100	Vertical	Pass
3	5822.800	107.01	-2.13	--	--	Peak	249.00	100	Vertical	N/A
3**	5822.800	99.65	-2.13	--	--	AV	249.00	100	Vertical	N/A
4	7576.150	49.64	-3.02	74.0	24.36	Peak	256.00	300	Vertical	Pass
4**	7576.150	40.03	-3.02	54.0	13.97	AV	256.00	300	Vertical	Pass
5	11782.563	53.23	1.16	74.0	20.77	Peak	272.00	150	Vertical	Pass
5**	11782.563	42.86	1.16	54.0	11.14	AV	272.00	150	Vertical	Pass
6	16069.313	55.43	1.31	74.0	18.57	Peak	92.00	300	Vertical	Pass
6**	16069.313	46.31	1.31	54.0	7.69	AV	92.00	300	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	1622.900	39.12	-16.97	74.0	34.88	Peak	24.00	100	Horizontal	Pass
1**	1622.900	29.77	-16.97	54.0	24.23	AV	24.00	100	Horizontal	Pass
2	4388.800	50.62	-3.38	74.0	23.38	Peak	331.00	300	Horizontal	Pass
2**	4388.800	41.43	-3.38	54.0	12.57	AV	331.00	300	Horizontal	Pass
3	5746.600	104.84	-2.21	--	--	Peak	296.00	150	Horizontal	N/A
3**	5746.600	97.31	-2.21	--	--	AV	296.00	150	Horizontal	N/A
4	7319.413	50.08	-3.03	74.0	23.92	Peak	249.00	300	Horizontal	Pass
4**	7319.413	40.19	-3.03	54.0	13.81	AV	249.00	300	Horizontal	Pass
5	12312.713	53.27	1.39	74.0	20.73	Peak	345.00	100	Horizontal	Pass
5**	12312.713	43.14	1.39	54.0	10.86	AV	345.00	100	Horizontal	Pass
6	15510.974	55.97	1.43	74.0	18.03	Peak	38.00	400	Horizontal	Pass
6**	15510.974	46.03	1.43	54.0	7.97	AV	38.00	400	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	1560.500	39.09	-16.89	74.0	34.91	Peak	360.00	100	Vertical	Pass
1**	1560.500	30.05	-16.89	54.0	23.95	AV	360.00	100	Vertical	Pass
2	4379.000	49.86	-3.36	74.0	24.14	Peak	35.00	400	Vertical	Pass
2**	4379.000	41.50	-3.36	54.0	12.50	AV	35.00	400	Vertical	Pass
3	5743.600	104.17	-2.09	--	--	Peak	247.00	150	Vertical	N/A
3**	5743.600	97.39	-2.09	--	--	AV	247.00	150	Vertical	N/A
4	7339.825	49.53	-2.95	74.0	24.47	Peak	12.00	100	Vertical	Pass
4**	7339.825	41.52	-2.95	54.0	12.48	AV	12.00	100	Vertical	Pass
5	12336.575	53.31	1.33	74.0	20.69	Peak	327.00	100	Vertical	Pass
5**	12336.575	43.99	1.33	54.0	10.01	AV	327.00	100	Vertical	Pass
6	16061.963	56.40	1.02	74.0	17.60	Peak	360.00	100	Vertical	Pass
6**	16061.963	45.97	1.02	54.0	8.03	AV	360.00	100	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	1600.000	39.45	-17.57	74.0	34.55	Peak	225.00	200	Horizontal	Pass
1**	1600.000	29.78	-17.57	54.0	24.22	AV	225.00	200	Horizontal	Pass
2	4389.400	51.18	-3.35	74.0	22.82	Peak	275.00	400	Horizontal	Pass
2**	4389.400	41.19	-3.35	54.0	12.81	AV	275.00	400	Horizontal	Pass
3	5782.400	105.31	-1.35	--	--	Peak	286.00	100	Horizontal	N/A
3**	5782.400	98.17	-1.35	--	--	AV	286.00	100	Horizontal	N/A
4	7351.037	49.58	-3.68	74.0	24.42	Peak	292.00	200	Horizontal	Pass
4**	7351.037	40.18	-3.68	54.0	13.82	AV	292.00	200	Horizontal	Pass
5	12554.500	53.33	1.57	74.0	20.67	Peak	344.00	100	Horizontal	Pass
5**	12554.500	43.28	1.57	54.0	10.72	AV	344.00	100	Horizontal	Pass
6	15837.525	56.34	1.45	74.0	17.66	Peak	272.00	400	Horizontal	Pass
6**	15837.525	46.56	1.45	54.0	7.44	AV	272.00	400	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	1504.400	39.70	-16.88	74.0	34.30	Peak	159.00	100	Vertical	Pass
1**	1504.400	30.00	-16.88	54.0	24.00	AV	159.00	100	Vertical	Pass
2	4396.200	50.08	-3.97	74.0	23.92	Peak	206.00	200	Vertical	Pass
2**	4396.200	40.85	-3.97	54.0	13.15	AV	206.00	200	Vertical	Pass
3	5782.400	104.10	-1.35	--	--	Peak	288.00	100	Vertical	N/A
3**	5782.400	96.40	-1.35	--	--	AV	288.00	100	Vertical	N/A
4	7365.125	50.14	-3.36	74.0	23.86	Peak	79.00	200	Vertical	Pass
4**	7365.125	40.59	-3.36	54.0	13.41	AV	79.00	200	Vertical	Pass
5	12318.175	53.47	1.42	74.0	20.53	Peak	38.00	200	Vertical	Pass
5**	12318.175	44.10	1.42	54.0	9.90	AV	38.00	200	Vertical	Pass
6	15798.412	55.82	2.28	74.0	18.18	Peak	360.00	300	Vertical	Pass
6**	15798.412	46.64	2.28	54.0	7.36	AV	360.00	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	1587.300	39.02	-17.00	74.0	34.98	Peak	70.00	200	Horizontal	Pass
1**	1587.300	29.35	-17.00	54.0	24.65	AV	70.00	200	Horizontal	Pass
2	4389.400	51.09	-3.35	74.0	22.91	Peak	19.00	200	Horizontal	Pass
2**	4389.400	41.69	-3.35	54.0	12.31	AV	19.00	200	Horizontal	Pass
3	5826.800	104.41	-2.00	--	--	Peak	307.00	150	Horizontal	N/A
3**	5826.800	97.19	-2.00	--	--	AV	307.00	150	Horizontal	N/A
4	7744.625	50.28	-2.84	74.0	23.72	Peak	177.00	200	Horizontal	Pass
4**	7744.625	39.64	-2.84	54.0	14.36	AV	177.00	200	Horizontal	Pass
5	12647.075	53.83	1.04	74.0	20.17	Peak	40.00	150	Horizontal	Pass
5**	12647.075	43.06	1.04	54.0	10.94	AV	40.00	150	Horizontal	Pass
6	15796.312	56.27	2.21	74.0	17.73	Peak	233.00	100	Horizontal	Pass
6**	15796.312	46.53	2.21	54.0	7.47	AV	233.00	100	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	1485.800	38.89	-16.67	74.0	35.11	Peak	214.00	200	Vertical	Pass
1**	1485.800	29.89	-16.67	54.0	24.11	AV	214.00	200	Vertical	Pass
2	4390.000	49.95	-3.32	74.0	24.05	Peak	360.00	400	Vertical	Pass
2**	4390.000	41.17	-3.32	54.0	12.83	AV	360.00	400	Vertical	Pass
3	5826.400	104.90	-2.02	--	--	Peak	248.00	200	Vertical	N/A
3**	5826.400	97.73	-2.02	--	--	AV	248.00	200	Vertical	N/A
4	7331.775	50.13	-3.31	74.0	23.87	Peak	176.00	300	Vertical	Pass
4**	7331.775	40.79	-3.31	54.0	13.21	AV	176.00	300	Vertical	Pass
5	12283.099	53.07	1.79	74.0	20.93	Peak	277.00	150	Vertical	Pass
5**	12283.099	44.66	1.79	54.0	9.34	AV	277.00	150	Vertical	Pass
6	16087.425	55.78	1.48	74.0	18.22	Peak	92.00	100	Vertical	Pass
6**	16087.425	46.30	1.48	54.0	7.70	AV	92.00	100	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	1607.400	38.87	-17.49	74.0	35.13	Peak	162.00	300	Horizontal	Pass
1**	1607.400	29.00	-17.49	54.0	25.00	AV	162.00	300	Horizontal	Pass
2	4394.200	49.90	-3.81	74.0	24.10	Peak	85.00	100	Horizontal	Pass
2**	4394.200	40.76	-3.81	54.0	13.24	AV	85.00	100	Horizontal	Pass
3	5752.400	102.28	-1.92	--	--	Peak	291.00	150	Horizontal	N/A
3**	5752.400	95.15	-1.92	--	--	AV	291.00	150	Horizontal	N/A
4	7631.638	49.58	-2.91	74.0	24.42	Peak	360.00	400	Horizontal	Pass
4**	7631.638	40.28	-2.91	54.0	13.72	AV	360.00	400	Horizontal	Pass
5	11930.625	52.93	1.58	74.0	21.07	Peak	207.00	200	Horizontal	Pass
5**	11930.625	43.85	1.58	54.0	10.15	AV	207.00	200	Horizontal	Pass
6	15501.787	55.43	1.20	74.0	18.57	Peak	189.00	200	Horizontal	Pass
6**	15501.787	45.75	1.20	54.0	8.25	AV	189.00	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	1479.100	39.12	-17.19	74.0	34.88	Peak	201.00	400	Vertical	Pass
1**	1479.100	29.67	-17.19	54.0	24.33	AV	201.00	400	Vertical	Pass
2	4265.200	50.66	-4.48	74.0	23.34	Peak	302.00	200	Vertical	Pass
2**	4265.200	39.89	-4.48	54.0	14.11	AV	302.00	200	Vertical	Pass
3	5752.400	102.11	-1.92	--	--	Peak	282.00	200	Vertical	N/A
3**	5752.400	94.51	-1.92	--	--	AV	282.00	200	Vertical	N/A
4	7598.000	49.88	-2.92	74.0	24.12	Peak	314.00	400	Vertical	Pass
4**	7598.000	39.64	-2.92	54.0	14.36	AV	314.00	400	Vertical	Pass
5	12306.099	53.41	1.38	74.0	20.59	Peak	98.00	150	Vertical	Pass
5**	12306.099	43.10	1.38	54.0	10.90	AV	98.00	150	Vertical	Pass
6	15871.388	55.76	0.56	74.0	18.24	Peak	309.00	300	Vertical	Pass
6**	15871.388	45.80	0.56	54.0	8.20	AV	309.00	300	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	1586.100	39.13	-16.85	74.0	34.87	Peak	41.00	100	Horizontal	Pass
1**	1586.100	29.97	-16.85	54.0	24.03	AV	41.00	100	Horizontal	Pass
2	4387.200	50.62	-3.34	74.0	23.38	Peak	336.00	200	Horizontal	Pass
2**	4387.200	41.49	-3.34	54.0	12.51	AV	336.00	200	Horizontal	Pass
3	5791.800	102.41	-1.88	--	--	Peak	289.00	100	Horizontal	N/A
3**	5791.800	94.18	-1.88	--	--	AV	289.00	100	Horizontal	N/A
4	7333.500	50.27	-3.12	74.0	23.73	Peak	163.00	100	Horizontal	Pass
4**	7333.500	40.26	-3.12	54.0	13.74	AV	163.00	100	Horizontal	Pass
5	12268.151	53.60	1.39	74.0	20.40	Peak	253.00	100	Horizontal	Pass
5**	12268.151	43.55	1.39	54.0	10.45	AV	253.00	100	Horizontal	Pass
6	15860.625	55.71	0.91	74.0	18.29	Peak	76.00	150	Horizontal	Pass
6**	15860.625	45.50	0.91	54.0	8.50	AV	76.00	150	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	1490.100	39.22	-16.73	74.0	34.78	Peak	208.00	100	Vertical	Pass
1**	1490.100	29.73	-16.73	54.0	24.27	AV	208.00	100	Vertical	Pass
2	4389.200	50.37	-3.36	74.0	23.63	Peak	349.00	400	Vertical	Pass
2**	4389.200	41.76	-3.36	54.0	12.24	AV	349.00	400	Vertical	Pass
3	5797.800	101.85	-1.69	--	--	Peak	241.00	200	Vertical	N/A
3**	5797.800	94.05	-1.69	--	--	AV	241.00	200	Vertical	N/A
4	7322.000	50.15	-3.24	74.0	23.85	Peak	24.00	100	Vertical	Pass
4**	7322.000	40.37	-3.24	54.0	13.63	AV	24.00	100	Vertical	Pass
5	11924.588	53.03	1.51	74.0	20.97	Peak	210.00	200	Vertical	Pass
5**	11924.588	43.41	1.51	54.0	10.59	AV	210.00	200	Vertical	Pass
6	15513.600	55.79	1.41	74.0	18.21	Peak	35.00	200	Vertical	Pass
6**	15513.600	46.61	1.41	54.0	7.39	AV	35.00	200	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	1457.400	39.17	-17.03	74.0	34.83	Peak	62.00	100	Horizontal	Pass
1**	1457.400	29.34	-17.03	54.0	24.66	AV	62.00	100	Horizontal	Pass
2	4392.400	49.87	-3.55	74.0	24.13	Peak	201.00	400	Horizontal	Pass
2**	4392.400	41.96	-3.55	54.0	12.04	AV	201.00	400	Horizontal	Pass
3	5744.000	105.10	-2.06	--	--	Peak	289.00	200	Horizontal	N/A
3**	5744.000	98.23	-2.06	--	--	AV	289.00	200	Horizontal	N/A
4	7381.800	49.34	-3.37	74.0	24.66	Peak	95.00	400	Horizontal	Pass
4**	7381.800	40.19	-3.37	54.0	13.81	AV	95.00	400	Horizontal	Pass
5	12280.800	52.97	1.80	74.0	21.03	Peak	111.00	200	Horizontal	Pass
5**	12280.800	43.70	1.80	54.0	10.30	AV	111.00	200	Horizontal	Pass
6	15847.500	55.31	1.35	74.0	18.69	Peak	91.00	200	Horizontal	Pass
6**	15847.500	46.83	1.35	54.0	7.17	AV	91.00	200	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	1553.200	38.59	-17.16	74.0	35.41	Peak	41.00	400	Vertical	Pass
1**	1553.200	30.23	-17.16	54.0	23.77	AV	41.00	400	Vertical	Pass
2	4364.600	50.25	-3.98	74.0	23.75	Peak	173.00	200	Vertical	Pass
2**	4364.600	40.57	-3.98	54.0	13.43	AV	173.00	200	Vertical	Pass
3	5743.200	105.50	-2.13	--	--	Peak	254.00	200	Vertical	N/A
3**	5743.200	97.59	-2.13	--	--	AV	254.00	200	Vertical	N/A
4	7343.850	50.26	-3.43	74.0	23.74	Peak	178.00	300	Vertical	Pass
4**	7343.850	40.69	-3.43	54.0	13.31	AV	178.00	300	Vertical	Pass
5	12696.526	53.52	0.83	74.0	20.48	Peak	5.00	100	Vertical	Pass
5**	12696.526	43.24	0.83	54.0	10.76	AV	5.00	100	Vertical	Pass
6	16068.263	55.84	1.27	74.0	18.16	Peak	158.00	400	Vertical	Pass
6**	16068.263	46.40	1.27	54.0	7.60	AV	158.00	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	1625.400	39.59	-17.14	74.0	34.41	Peak	308.00	200	Horizontal	Pass
1**	1625.400	30.14	-17.14	54.0	23.86	AV	308.00	200	Horizontal	Pass
2	4384.800	51.28	-3.50	74.0	22.72	Peak	78.00	400	Horizontal	Pass
2**	4384.800	42.64	-3.50	54.0	11.36	AV	78.00	400	Horizontal	Pass
3	5783.200	105.57	-1.46	--	--	Peak	289.00	200	Horizontal	N/A
3**	5783.200	97.91	-1.46	--	--	AV	289.00	200	Horizontal	N/A
4	7338.675	50.43	-2.91	74.0	23.57	Peak	344.00	300	Horizontal	Pass
4**	7338.675	40.76	-2.91	54.0	13.24	AV	344.00	300	Horizontal	Pass
5	12443.237	52.79	1.80	74.0	21.21	Peak	221.00	200	Horizontal	Pass
5**	12443.237	43.77	1.80	54.0	10.23	AV	221.00	200	Horizontal	Pass
6	15678.975	55.75	1.57	74.0	18.25	Peak	0.00	300	Horizontal	Pass
6**	15678.975	46.25	1.57	54.0	7.75	AV	0.00	300	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	1438.600	39.21	-17.35	74.0	34.79	Peak	177.00	100	Vertical	Pass
1**	1438.600	29.89	-17.35	54.0	24.11	AV	177.00	100	Vertical	Pass
2	4380.800	50.06	-3.46	74.0	23.94	Peak	247.00	200	Vertical	Pass
2**	4380.800	41.77	-3.46	54.0	12.23	AV	247.00	200	Vertical	Pass
3	5782.400	104.96	-1.35	--	--	Peak	247.00	200	Vertical	N/A
3**	5782.400	97.20	-1.35	--	--	AV	247.00	200	Vertical	N/A
4	7671.312	49.25	-2.51	74.0	24.75	Peak	343.00	100	Vertical	Pass
4**	7671.312	40.29	-2.51	54.0	13.71	AV	343.00	100	Vertical	Pass
5	11627.312	53.05	-0.16	74.0	20.95	Peak	105.00	150	Vertical	Pass
5**	11627.312	43.37	-0.16	54.0	10.63	AV	105.00	150	Vertical	Pass
6	16172.738	55.26	1.25	74.0	18.74	Peak	84.00	100	Vertical	Pass
6**	16172.738	46.05	1.25	54.0	7.95	AV	84.00	100	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	1592.000	38.70	-17.36	74.0	35.30	Peak	193.00	400	Horizontal	Pass
1**	1592.000	29.71	-17.36	54.0	24.29	AV	193.00	400	Horizontal	Pass
2	4389.200	50.03	-3.36	74.0	23.97	Peak	144.00	300	Horizontal	Pass
2**	4389.200	40.87	-3.36	54.0	13.13	AV	144.00	300	Horizontal	Pass
3	5826.200	105.25	-2.03	--	--	Peak	302.00	200	Horizontal	N/A
3**	5826.200	98.01	-2.03	--	--	AV	302.00	200	Horizontal	N/A
4	7345.000	49.38	-3.49	74.0	24.62	Peak	0.00	100	Horizontal	Pass
4**	7345.000	41.20	-3.49	54.0	12.80	AV	0.00	100	Horizontal	Pass
5	12687.325	53.38	0.85	74.0	20.62	Peak	271.00	150	Horizontal	Pass
5**	12687.325	43.72	0.85	54.0	10.28	AV	271.00	150	Horizontal	Pass
6	15778.201	55.35	1.44	74.0	18.65	Peak	51.00	300	Horizontal	Pass
6**	15778.201	45.25	1.44	54.0	8.75	AV	51.00	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	1505.300	39.26	-16.84	74.0	34.74	Peak	11.00	200	Vertical	Pass
1**	1505.300	30.14	-16.84	54.0	23.86	AV	11.00	200	Vertical	Pass
2	4285.000	50.52	-4.22	74.0	23.48	Peak	187.00	400	Vertical	Pass
2**	4285.000	40.17	-4.22	54.0	13.83	AV	187.00	400	Vertical	Pass
3	5826.800	105.04	-2.00	--	--	Peak	242.00	200	Vertical	N/A
3**	5826.800	97.86	-2.00	--	--	AV	242.00	200	Vertical	N/A
4	7332.638	50.28	-3.21	74.0	23.72	Peak	230.00	100	Vertical	Pass
4**	7332.638	40.60	-3.21	54.0	13.40	AV	230.00	100	Vertical	Pass
5	12296.037	53.91	1.55	74.0	20.09	Peak	360.00	150	Vertical	Pass
5**	12296.037	43.58	1.55	54.0	10.42	AV	360.00	150	Vertical	Pass
6	15676.349	55.96	1.55	74.0	18.04	Peak	208.00	100	Vertical	Pass
6**	15676.349	46.01	1.55	54.0	7.99	AV	208.00	100	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	1532.200	38.86	-17.19	74.0	35.14	Peak	357.00	200	Horizontal	Pass
1**	1532.200	29.20	-17.19	54.0	24.80	AV	357.00	200	Horizontal	Pass
2	4383.600	50.59	-3.64	74.0	23.41	Peak	30.00	100	Horizontal	Pass
2**	4383.600	41.54	-3.64	54.0	12.46	AV	30.00	100	Horizontal	Pass
3	5757.200	102.72	-1.77	--	--	Peak	288.00	100	Horizontal	N/A
3**	5757.200	95.32	-1.77	--	--	AV	288.00	100	Horizontal	N/A
4	7626.750	50.04	-2.67	74.0	23.96	Peak	79.00	400	Horizontal	Pass
4**	7626.750	40.09	-2.67	54.0	13.91	AV	79.00	400	Horizontal	Pass
5	11636.225	52.88	-0.22	74.0	21.12	Peak	44.00	200	Horizontal	Pass
5**	11636.225	42.51	-0.22	54.0	11.49	AV	44.00	200	Horizontal	Pass
6	15851.963	56.68	1.28	74.0	17.32	Peak	173.00	300	Horizontal	Pass
6**	15851.963	46.88	1.28	54.0	7.12	AV	173.00	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	1544.100	39.68	-17.27	74.0	34.32	Peak	299.00	300	Vertical	Pass
1**	1544.100	28.80	-17.27	54.0	25.20	AV	299.00	300	Vertical	Pass
2	4386.600	50.42	-3.30	74.0	23.58	Peak	182.00	300	Vertical	Pass
2**	4386.600	41.65	-3.30	54.0	12.35	AV	182.00	300	Vertical	Pass
3	5752.800	102.62	-1.96	--	--	Peak	286.00	200	Vertical	N/A
3**	5752.800	95.62	-1.96	--	--	AV	286.00	200	Vertical	N/A
4	7460.575	49.73	-3.50	74.0	24.27	Peak	125.00	200	Vertical	Pass
4**	7460.575	40.23	-3.50	54.0	13.77	AV	125.00	200	Vertical	Pass
5	12298.338	53.42	1.51	74.0	20.58	Peak	193.00	150	Vertical	Pass
5**	12298.338	43.96	1.51	54.0	10.04	AV	193.00	150	Vertical	Pass
6	15801.037	56.83	2.32	74.0	17.17	Peak	360.00	200	Vertical	Pass
6**	15801.037	46.75	2.32	54.0	7.25	AV	360.00	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	1492.500	38.73	-16.88	74.0	35.27	Peak	360.00	100	Horizontal	Pass
1**	1492.500	29.63	-16.88	54.0	24.37	AV	360.00	100	Horizontal	Pass
2	4361.000	49.95	-4.05	74.0	24.05	Peak	59.00	300	Horizontal	Pass
2**	4361.000	41.17	-4.05	54.0	12.83	AV	59.00	300	Horizontal	Pass
3	5797.000	101.91	-1.72	--	--	Peak	282.00	200	Horizontal	N/A
3**	5797.000	94.94	-1.72	--	--	AV	282.00	200	Horizontal	N/A
4	7328.325	49.66	-3.50	74.0	24.34	Peak	116.00	300	Horizontal	Pass
4**	7328.325	40.63	-3.50	54.0	13.37	AV	116.00	300	Horizontal	Pass
5	12602.800	53.15	1.91	74.0	20.85	Peak	151.00	100	Horizontal	Pass
5**	12602.800	43.55	1.91	54.0	10.45	AV	151.00	100	Horizontal	Pass
6	15841.724	55.60	1.42	74.0	18.40	Peak	37.00	100	Horizontal	Pass
6**	15841.724	46.77	1.42	54.0	7.23	AV	37.00	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	1581.800	38.66	-17.10	74.0	35.34	Peak	95.00	200	Vertical	Pass
1**	1581.800	29.51	-17.10	54.0	24.49	AV	95.00	200	Vertical	Pass
2	4386.600	50.15	-3.30	74.0	23.85	Peak	311.00	300	Vertical	Pass
2**	4386.600	42.44	-3.30	54.0	11.56	AV	311.00	300	Vertical	Pass
3	5799.600	102.00	-1.68	--	--	Peak	236.00	200	Vertical	N/A
3**	5799.600	95.23	-1.68	--	--	AV	236.00	200	Vertical	N/A
4	7394.737	49.83	-3.87	74.0	24.17	Peak	294.00	400	Vertical	Pass
4**	7394.737	40.65	-3.87	54.0	13.35	AV	294.00	400	Vertical	Pass
5	12696.813	54.27	0.83	74.0	19.73	Peak	108.00	150	Vertical	Pass
5**	12696.813	44.13	0.83	54.0	9.87	AV	108.00	150	Vertical	Pass
6	15649.838	55.76	1.18	74.0	18.24	Peak	211.00	200	Vertical	Pass
6**	15649.838	47.58	1.18	54.0	6.42	AV	211.00	200	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	1622.700	38.99	-16.94	74.0	35.01	Peak	37.00	300	Horizontal	Pass
1**	1622.700	29.97	-16.94	54.0	24.03	AV	37.00	300	Horizontal	Pass
2	4389.200	50.49	-3.36	74.0	23.51	Peak	80.00	200	Horizontal	Pass
2**	4389.200	41.21	-3.36	54.0	12.79	AV	80.00	200	Horizontal	Pass
3	5780.800	98.34	-1.62	--	--	Peak	283.00	100	Horizontal	N/A
3**	5780.800	90.52	-1.62	--	--	AV	283.00	100	Horizontal	N/A
4	7461.437	49.57	-3.50	74.0	24.43	Peak	258.00	100	Horizontal	Pass
4**	7461.437	39.20	-3.50	54.0	14.80	AV	258.00	100	Horizontal	Pass
5	11948.162	53.03	1.45	74.0	20.97	Peak	77.00	150	Horizontal	Pass
5**	11948.162	44.04	1.45	54.0	9.96	AV	77.00	150	Horizontal	Pass
6	16019.174	55.86	0.51	74.0	18.14	Peak	360.00	100	Horizontal	Pass
6**	16019.174	45.96	0.51	54.0	8.04	AV	360.00	100	Horizontal	Pass

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

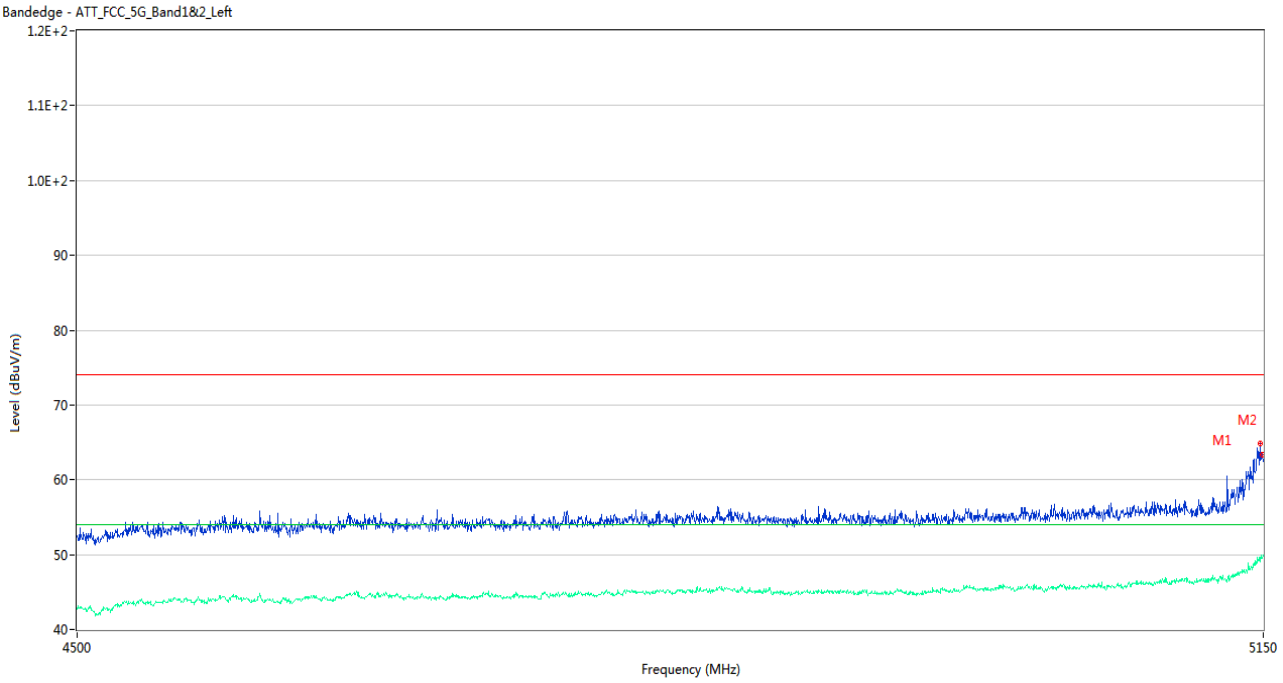
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1598.100	38.75	-17.27	74.0	35.25	Peak	104.00	200	Vertical	Pass
1**	1598.100	29.12	-17.27	54.0	24.88	AV	104.00	200	Vertical	Pass
2	4385.600	51.35	-3.36	74.0	22.65	Peak	134.00	300	Vertical	Pass
2**	4385.600	41.26	-3.36	54.0	12.74	AV	134.00	300	Vertical	Pass
3	5781.000	98.40	-1.58	--	--	Peak	245.00	100	Vertical	N/A
3**	5781.000	90.31	-1.58	--	--	AV	245.00	100	Vertical	N/A
4	7732.550	50.19	-2.19	74.0	23.81	Peak	0.00	200	Vertical	Pass
4**	7732.550	40.28	-2.19	54.0	13.72	AV	0.00	200	Vertical	Pass
5	12394.075	53.61	1.60	74.0	20.39	Peak	182.00	200	Vertical	Pass
5**	12394.075	43.32	1.60	54.0	10.68	AV	182.00	200	Vertical	Pass
6	15520.950	55.64	1.38	74.0	18.36	Peak	149.00	100	Vertical	Pass
6**	15520.950	47.97	1.38	54.0	6.03	AV	149.00	100	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

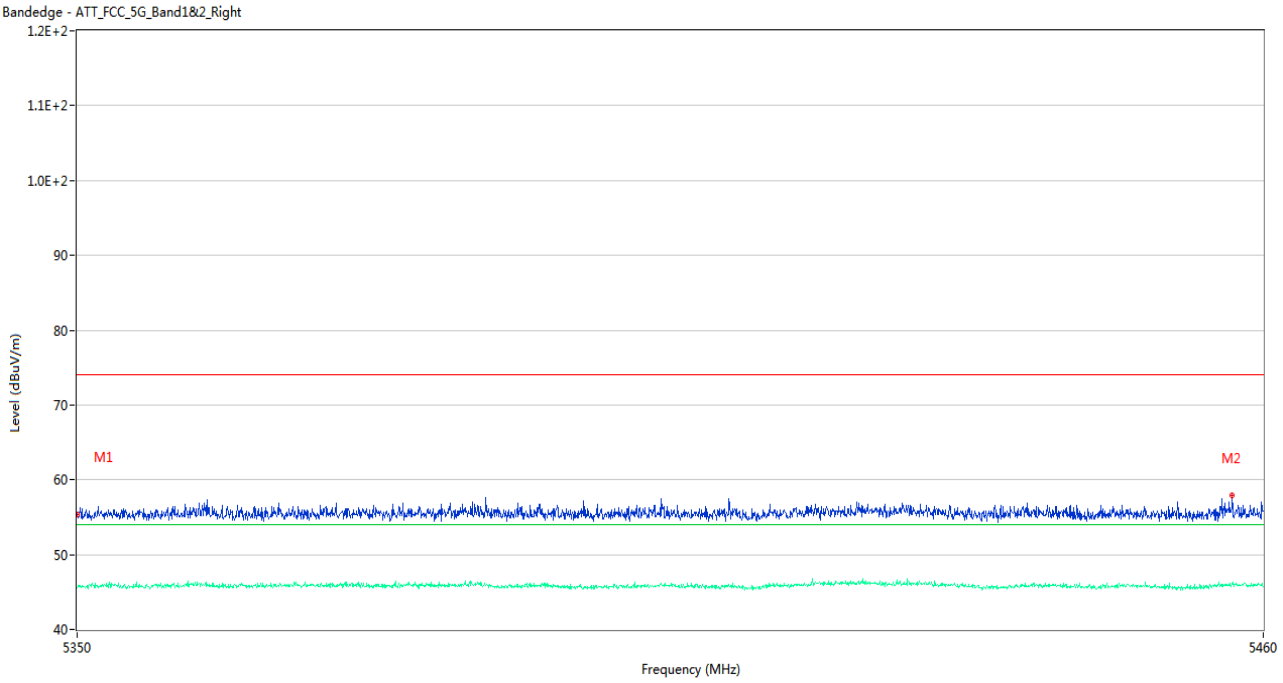
Test Data and Plots

U-NII-1 11a Low Channel



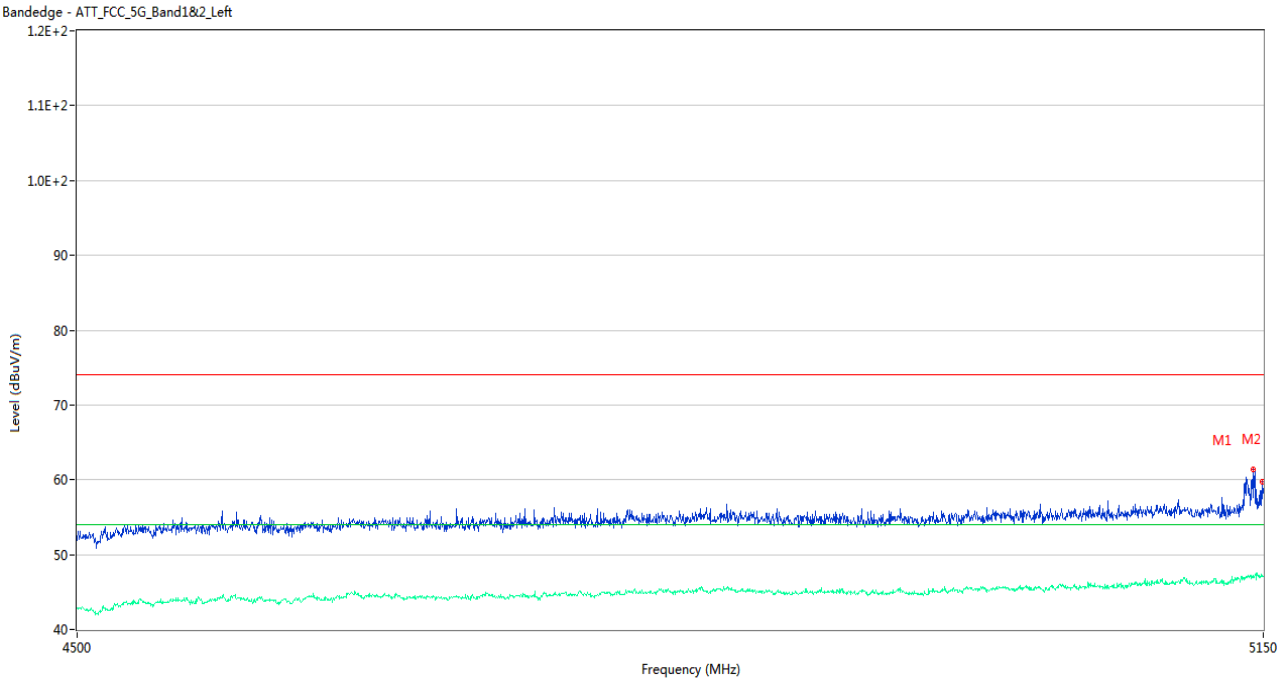
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.050	64.86	2.14	74.0	9.14	Peak	302.00	150	Horizontal	Pass
1**	5148.050	49.58	2.14	54.0	4.42	AV	302.00	150	Horizontal	Pass
2	5149.675	63.31	2.07	74.0	10.69	Peak	279.00	200	Horizontal	Pass
2**	5149.675	49.56	2.07	54.0	4.44	AV	279.00	200	Horizontal	Pass

U-NII-1 11a High Channel



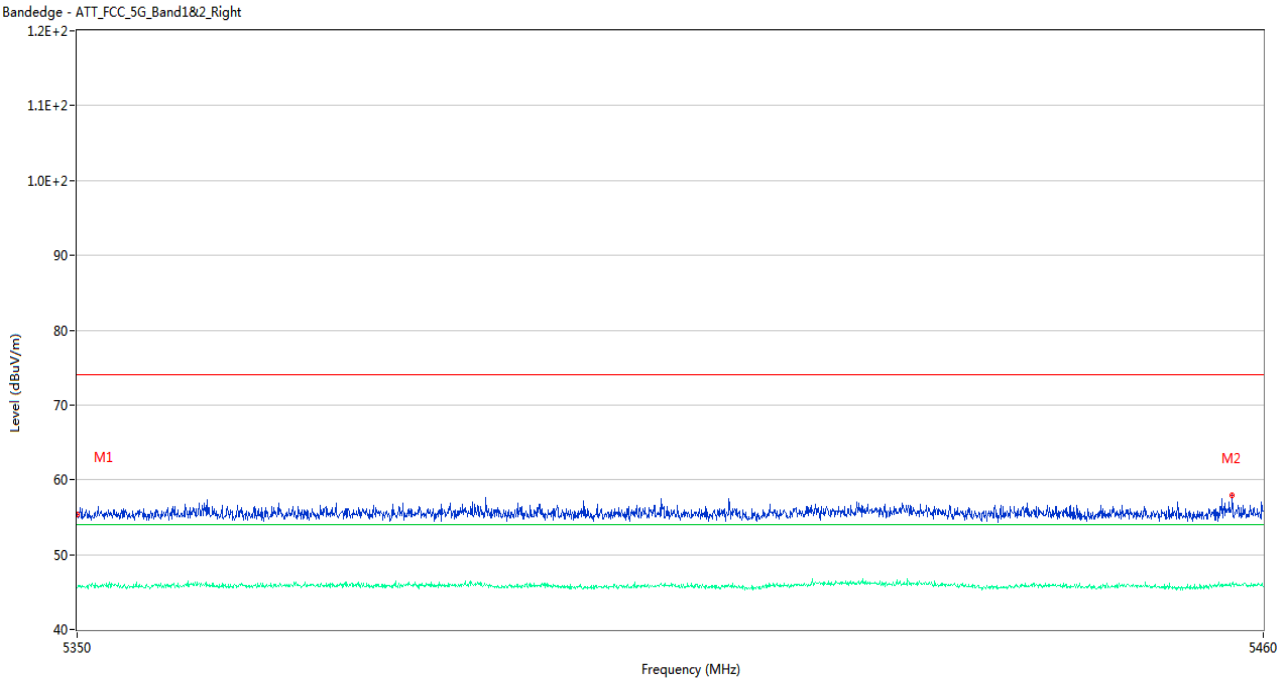
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.33	1.93	74.0	18.67	Peak	210.00	200	Horizontal	Pass
1**	5350.000	45.57	1.93	54.0	8.43	AV	210.00	200	Horizontal	Pass
2	5457.085	57.86	2.52	74.0	16.14	Peak	142.00	150	Horizontal	Pass
2**	5457.085	45.98	2.52	54.0	8.02	AV	142.00	150	Horizontal	Pass

U-NII-1 11n20 Low Channel



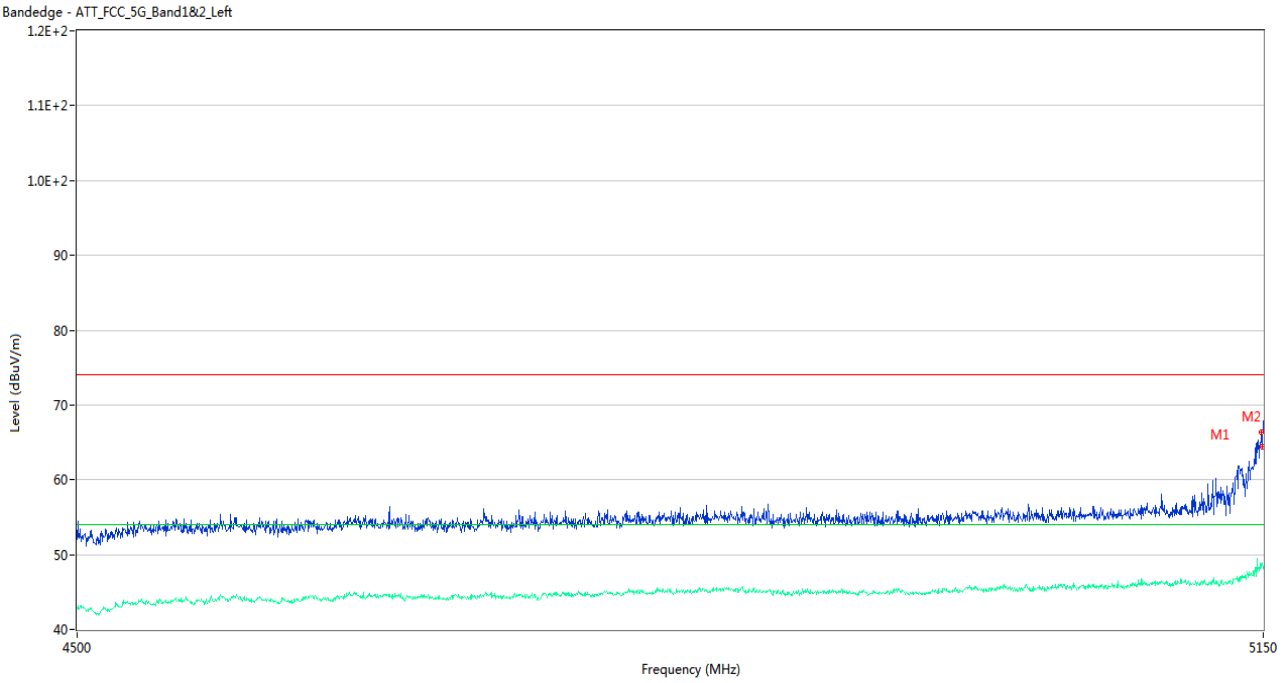
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5143.825	61.37	2.34	74.0	12.63	Peak	250.00	200	Horizontal	Pass
1**	5143.825	47.24	2.34	54.0	6.76	AV	250.00	200	Horizontal	Pass
2	5149.675	59.72	2.07	74.0	14.28	Peak	278.00	150	Horizontal	Pass
2**	5149.675	47.07	2.07	54.0	6.93	AV	278.00	150	Horizontal	Pass

U-NII-1 11n20 High Channel



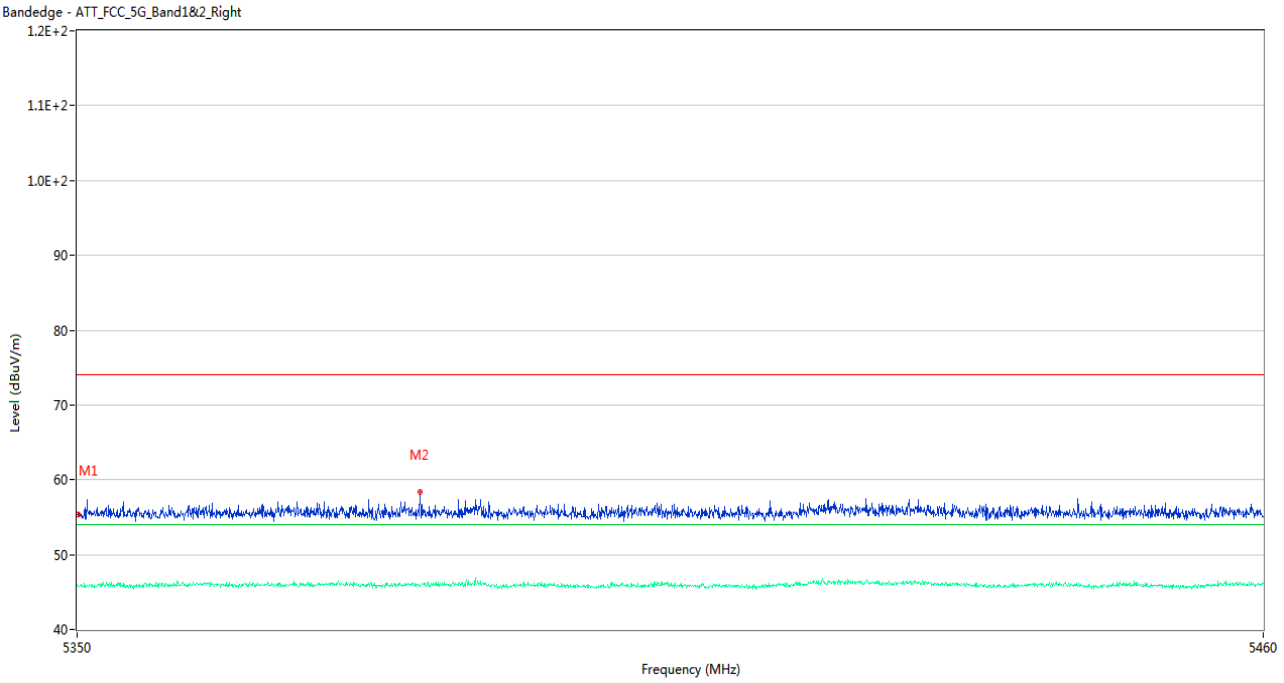
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.33	1.93	74.0	18.67	Peak	210.00	200	Horizontal	Pass
1**	5350.000	45.57	1.93	54.0	8.43	AV	210.00	200	Horizontal	Pass
2	5457.085	57.86	2.52	74.0	16.14	Peak	142.00	150	Horizontal	Pass
2**	5457.085	45.98	2.52	54.0	8.02	AV	142.00	150	Horizontal	Pass

U-NII-1 11n40 Low Channel



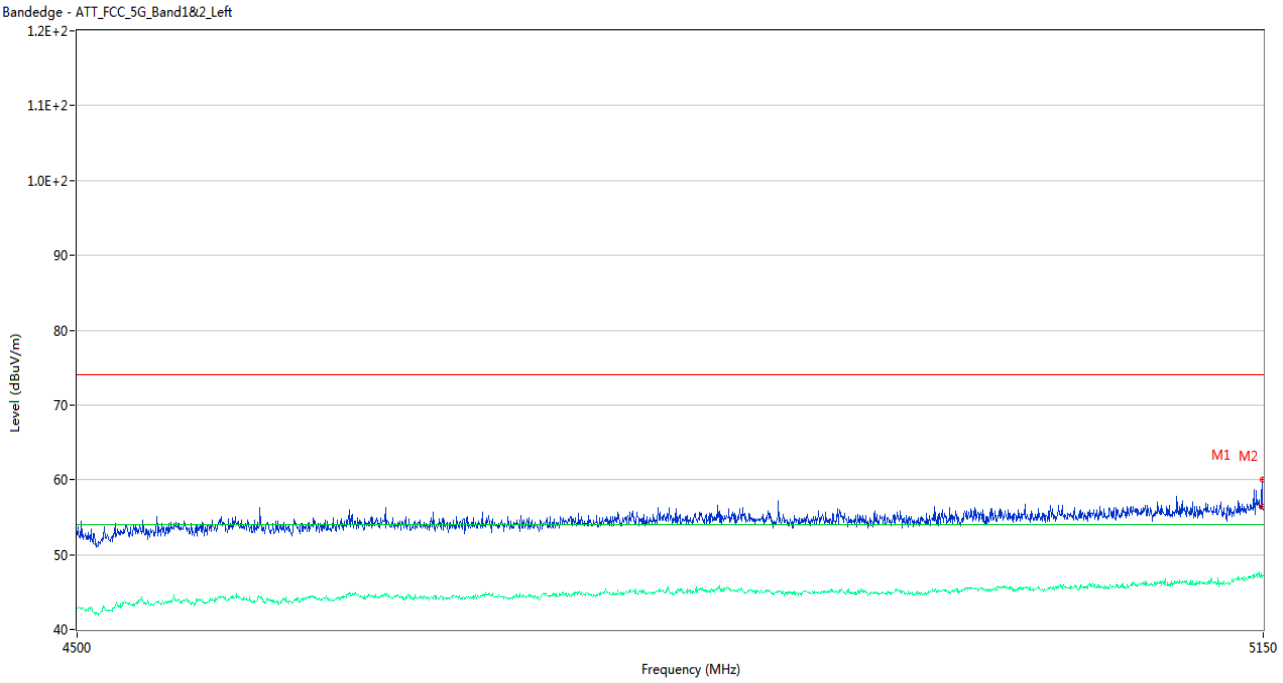
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.025	66.38	2.02	74.0	7.62	Peak	295.00	150	Horizontal	Pass
1**	5149.025	48.81	2.02	54.0	5.19	AV	295.00	150	Horizontal	Pass
2	5149.675	64.42	2.07	74.0	9.58	Peak	55.00	150	Horizontal	Pass
2**	5149.675	48.95	2.07	54.0	5.05	AV	55.00	150	Horizontal	Pass

U-NII-1 11n40 High Channel



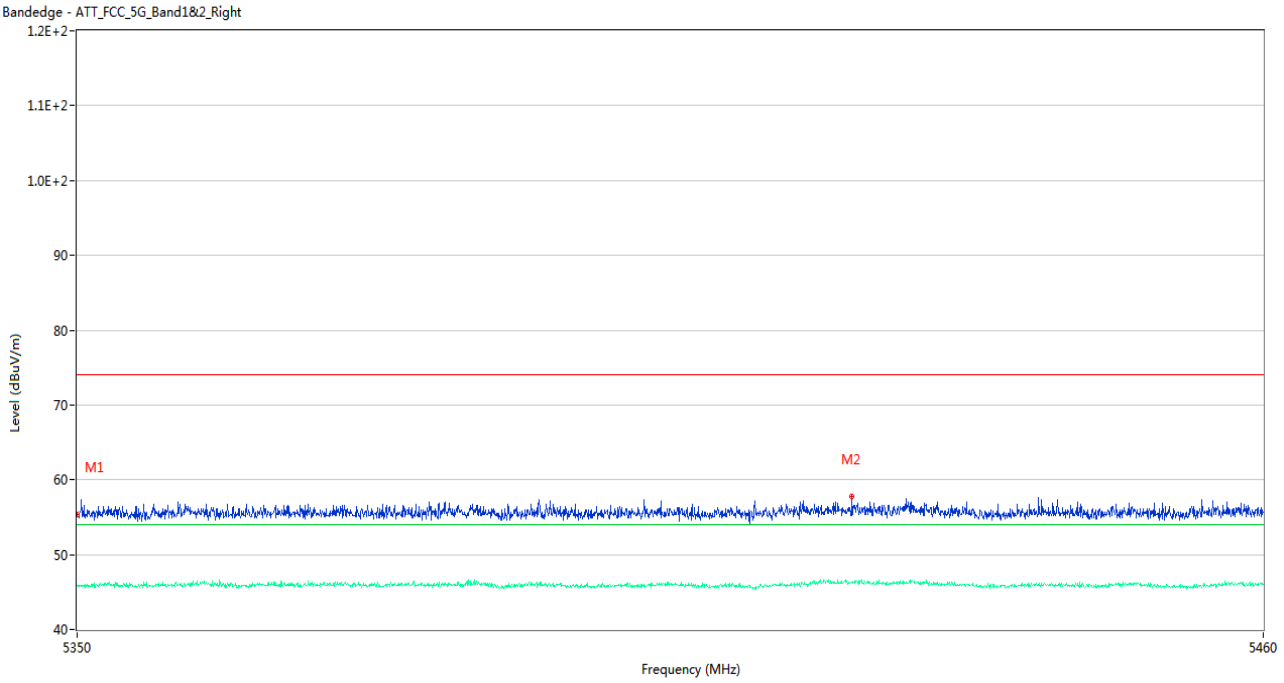
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.42	1.93	74.0	18.58	Peak	64.00	100	Horizontal	Pass
1**	5350.055	45.74	1.93	54.0	8.26	AV	64.00	100	Horizontal	Pass
2	5381.570	58.32	2.23	74.0	15.68	Peak	310.00	100	Horizontal	Pass
2**	5381.570	45.77	2.23	54.0	8.23	AV	310.00	100	Horizontal	Pass

U-NII-1 11ac20 Low Channel



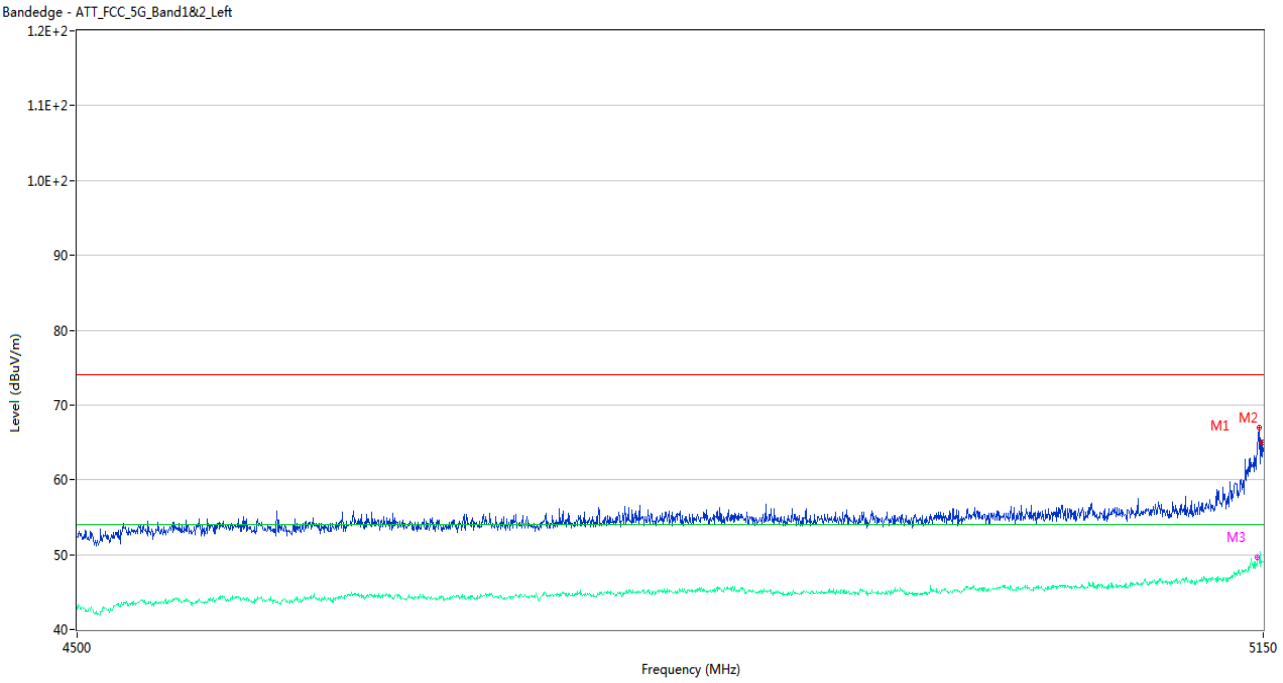
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5149.350	60.07	2.05	74.0	13.93	Peak	59.00	200	Horizontal	Pass
1**	5149.350	47.22	2.05	54.0	6.78	AV	59.00	200	Horizontal	Pass
2	5149.675	56.41	2.07	74.0	17.59	Peak	268.00	150	Horizontal	Pass
2**	5149.675	46.98	2.07	54.0	7.02	AV	268.00	150	Horizontal	Pass

U-NII-1 11ac20 High Channel



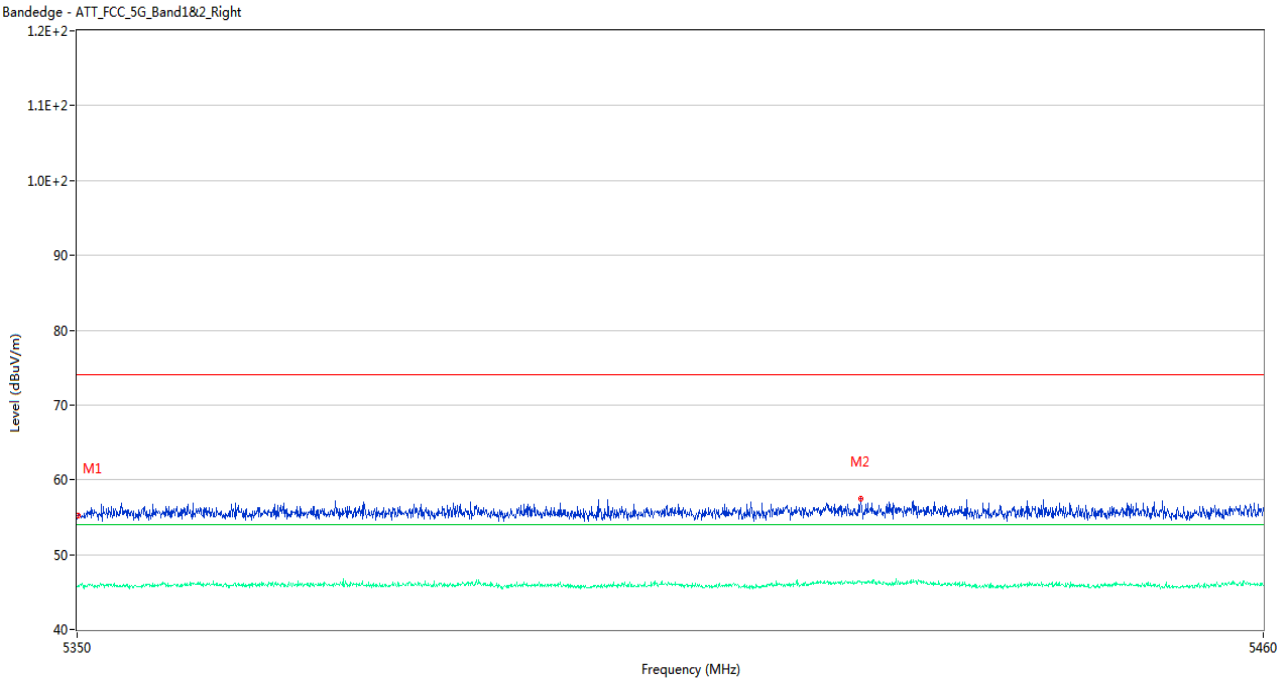
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.35	1.93	74.0	18.65	Peak	297.00	150	Horizontal	Pass
1**	5350.000	45.88	1.93	54.0	8.12	AV	297.00	150	Horizontal	Pass
2	5421.610	57.71	2.43	74.0	16.29	Peak	0.00	150	Horizontal	Pass
2**	5421.610	46.33	2.43	54.0	7.67	AV	0.00	150	Horizontal	Pass

U-NII-1 11ac40 Low Channel



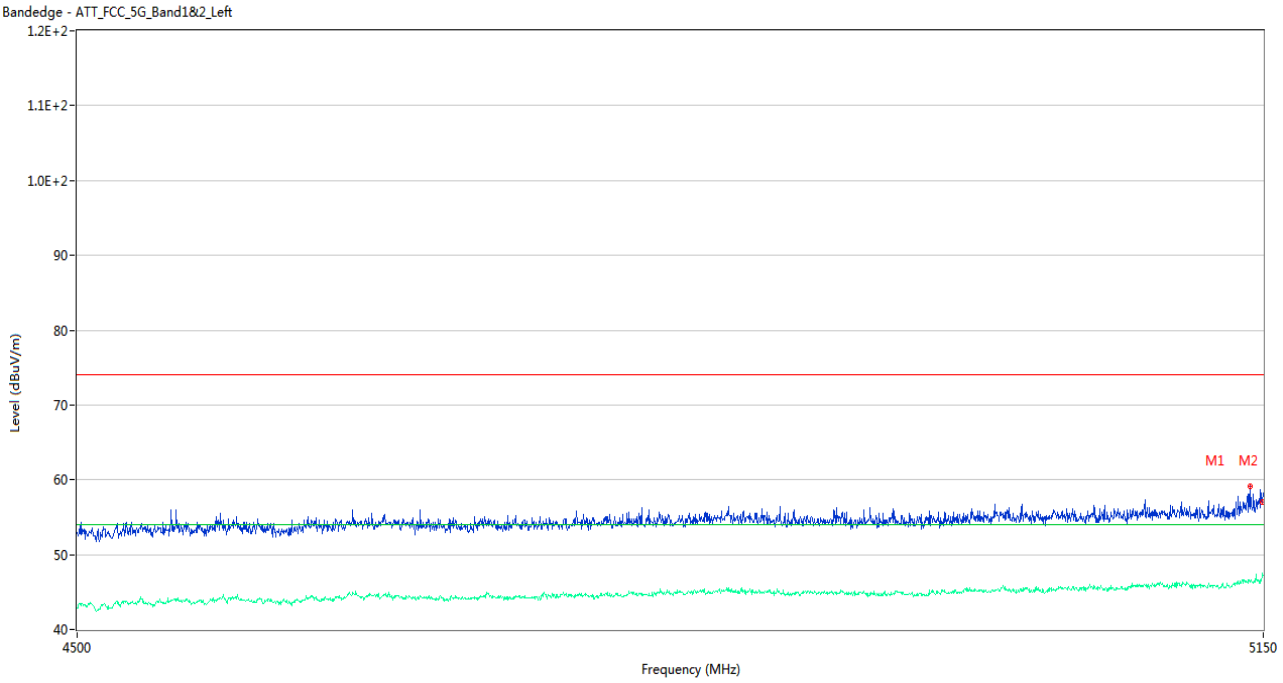
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.725	67.03	2.18	74.0	6.97	Peak	280.00	150	Horizontal	Pass
1**	5147.725	48.89	2.18	54.0	5.11	AV	280.00	150	Horizontal	Pass
2	5149.675	65.08	2.07	74.0	8.92	Peak	310.00	200	Horizontal	Pass
2**	5149.675	49.04	2.07	54.0	4.96	AV	310.00	200	Horizontal	Pass
3	5146.750	63.84	2.29	74.0	10.16	Peak	286.00	150	Horizontal	Pass
3**	5146.750	49.72	2.29	54.0	4.28	AV	286.00	150	Horizontal	Pass

U-NII-1 11ac40 High Channel



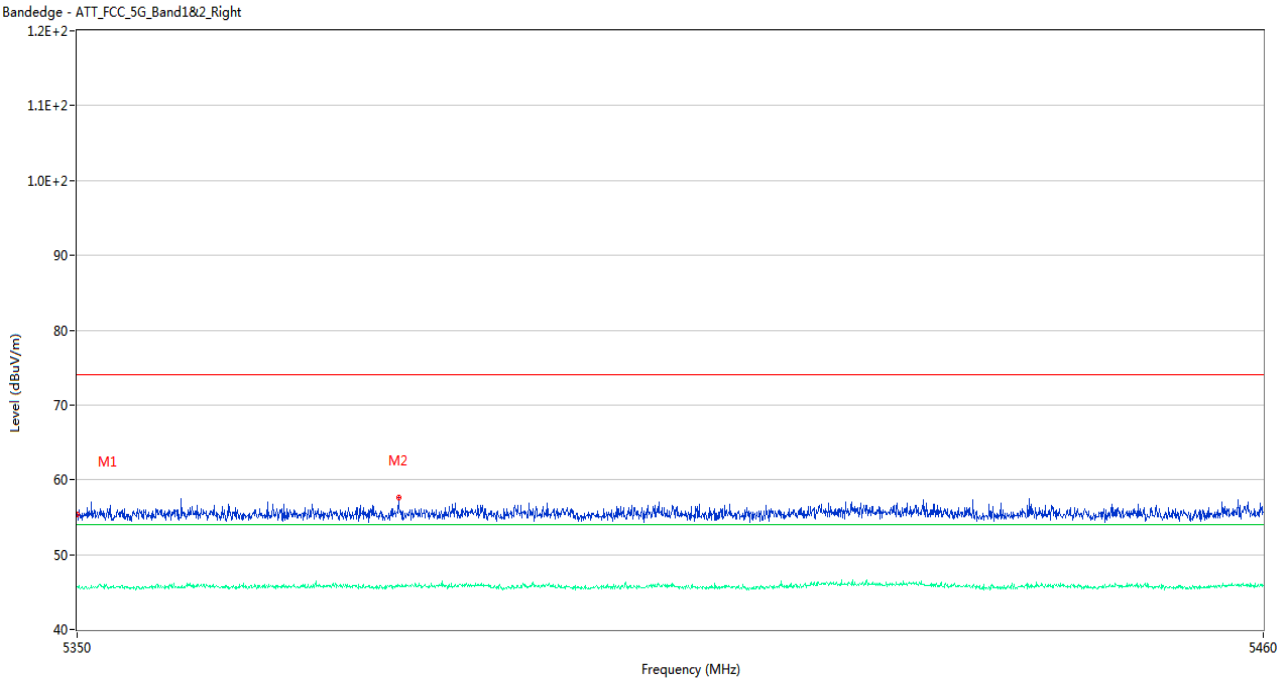
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.28	1.93	74.0	18.72	Peak	275.00	200	Horizontal	Pass
1**	5350.055	45.84	1.93	54.0	8.16	AV	275.00	200	Horizontal	Pass
2	5422.435	57.44	2.44	74.0	16.56	Peak	314.00	150	Horizontal	Pass
2**	5422.435	46.36	2.44	54.0	7.64	AV	314.00	150	Horizontal	Pass

U-NII-1 11ac80 Middle Channel



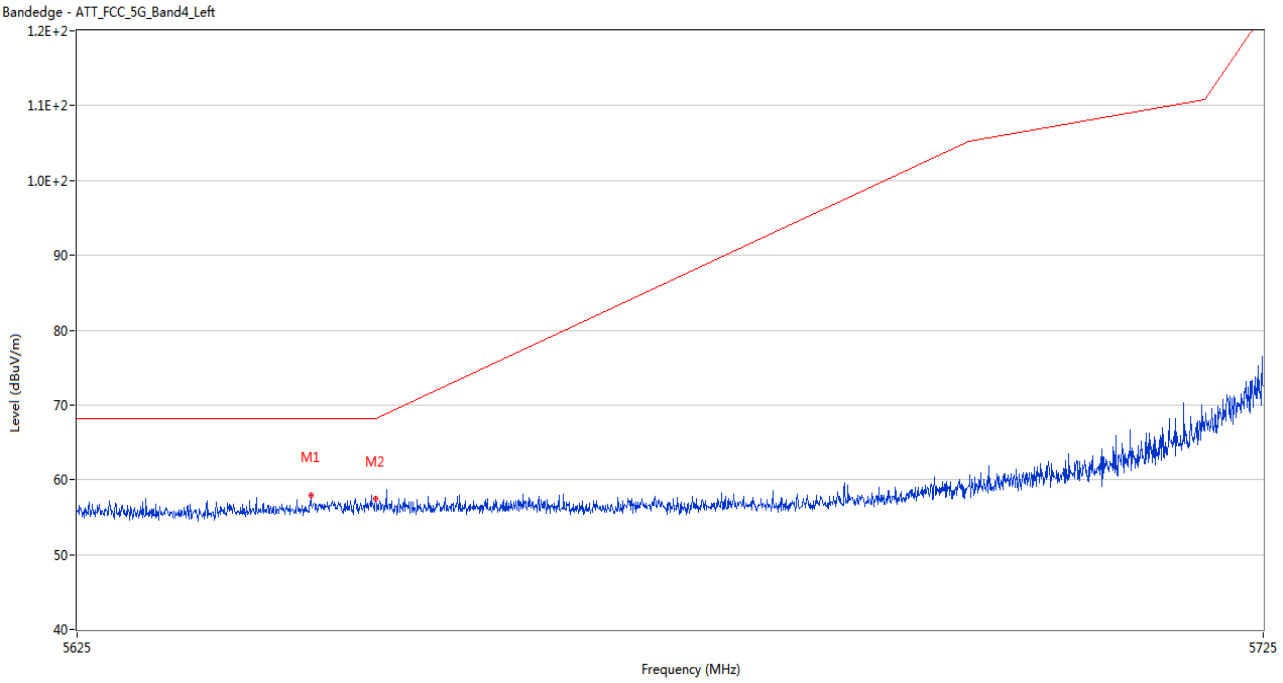
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5142.200	59.19	2.43	74.0	14.81	Peak	309.00	150	Horizontal	Pass
1**	5142.200	46.35	2.43	54.0	7.65	AV	309.00	150	Horizontal	Pass
2	5149.675	57.05	2.07	74.0	16.95	Peak	256.00	150	Horizontal	Pass
2**	5149.675	47.55	2.07	54.0	6.45	AV	256.00	150	Horizontal	Pass

U-NII-1 11ac80 Middle Channel



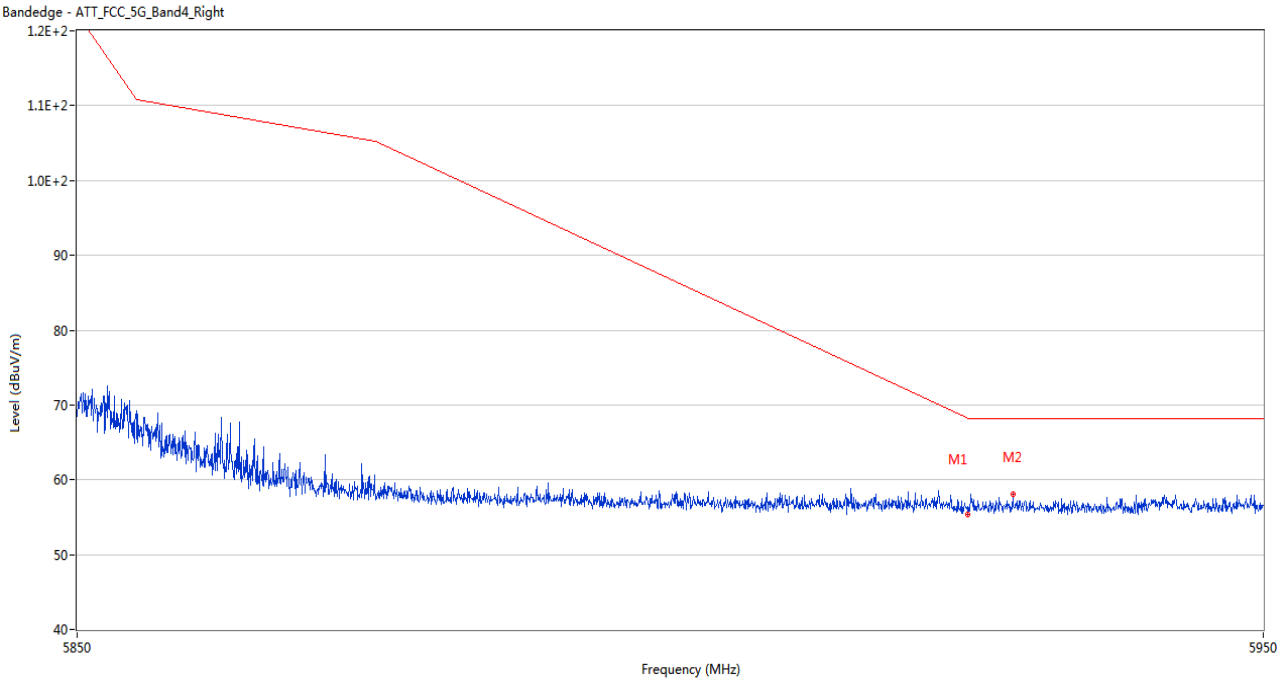
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.37	1.93	74.0	18.63	Peak	299.00	150	Horizontal	Pass
1**	5350.000	45.67	1.93	54.0	8.33	AV	299.00	150	Horizontal	Pass
2	5379.590	57.62	2.19	74.0	16.38	Peak	15.00	150	Horizontal	Pass
2**	5379.590	45.84	2.19	54.0	8.16	AV	15.00	150	Horizontal	Pass

U-NII-3 11a Low Channel



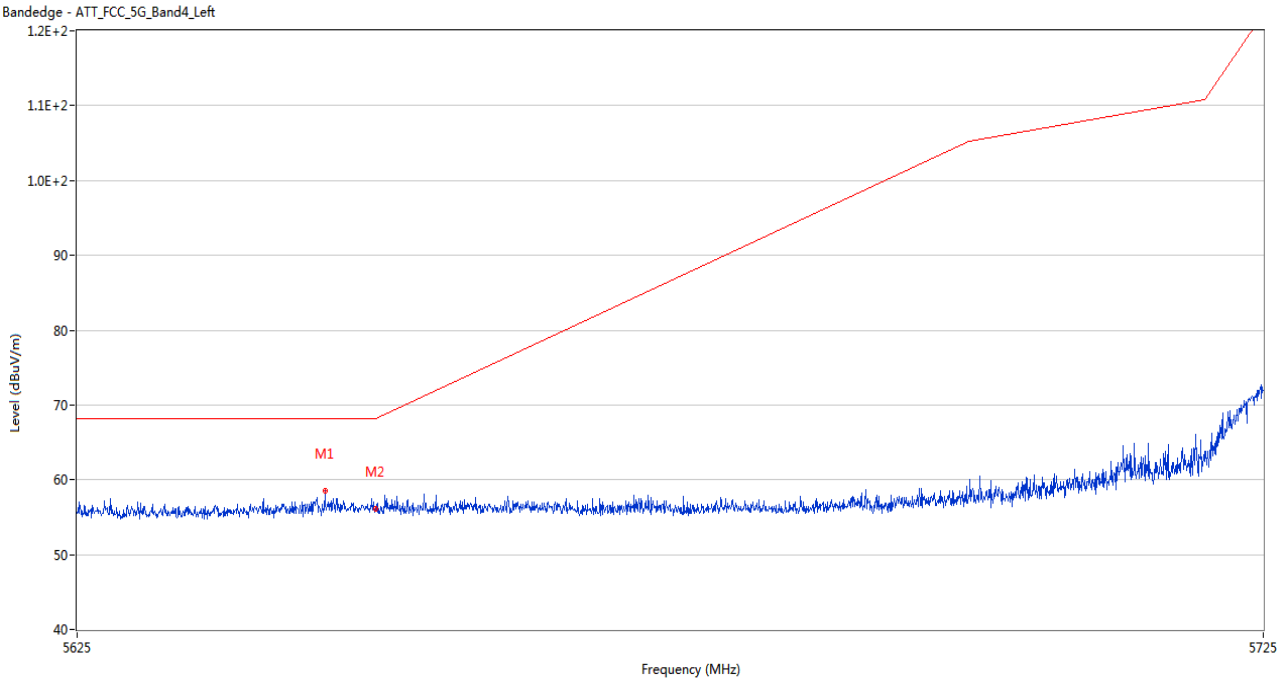
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5644.550	57.99	2.45	68.2	10.21	Peak	0.00	200	Horizontal	Pass
2	5650.000	57.41	2.54	68.2	10.79	Peak	18.00	100	Horizontal	Pass

U-NII-3 11a High Channel



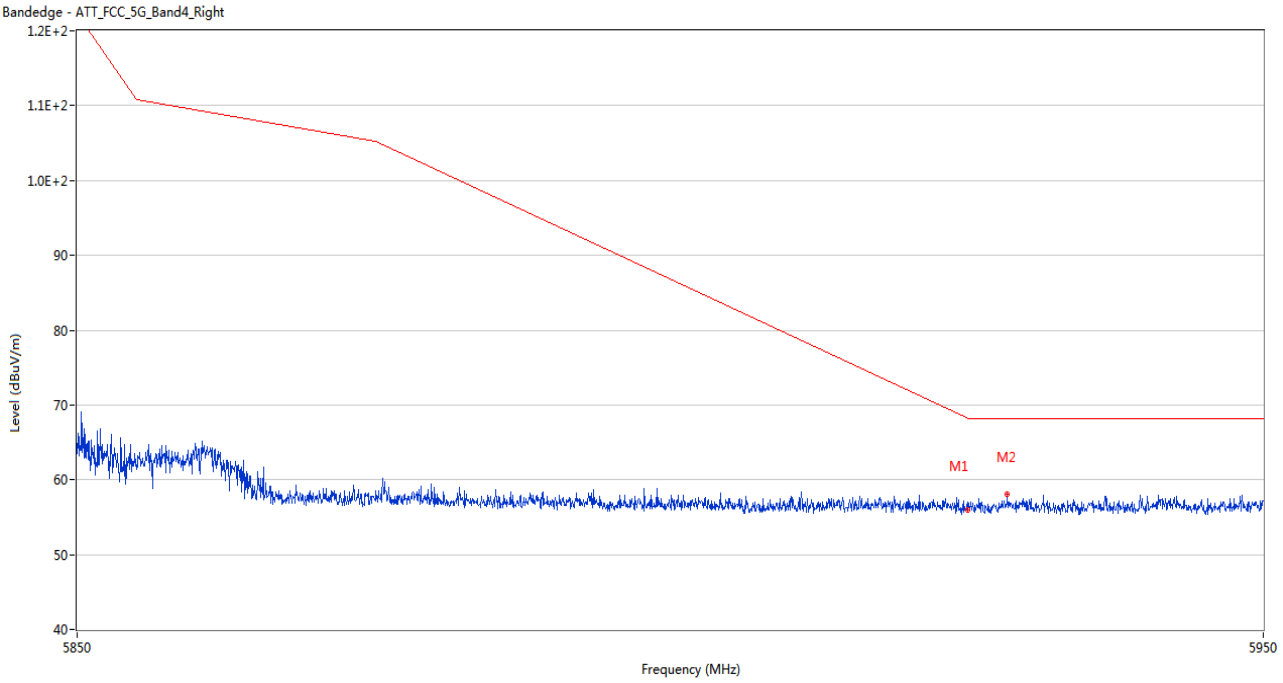
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.42	2.32	68.2	12.78	Peak	127.00	100	Horizontal	Pass
2	5928.750	58.08	2.69	68.2	10.12	Peak	57.00	100	Horizontal	Pass

U-NII-3 11n20 Low Channel



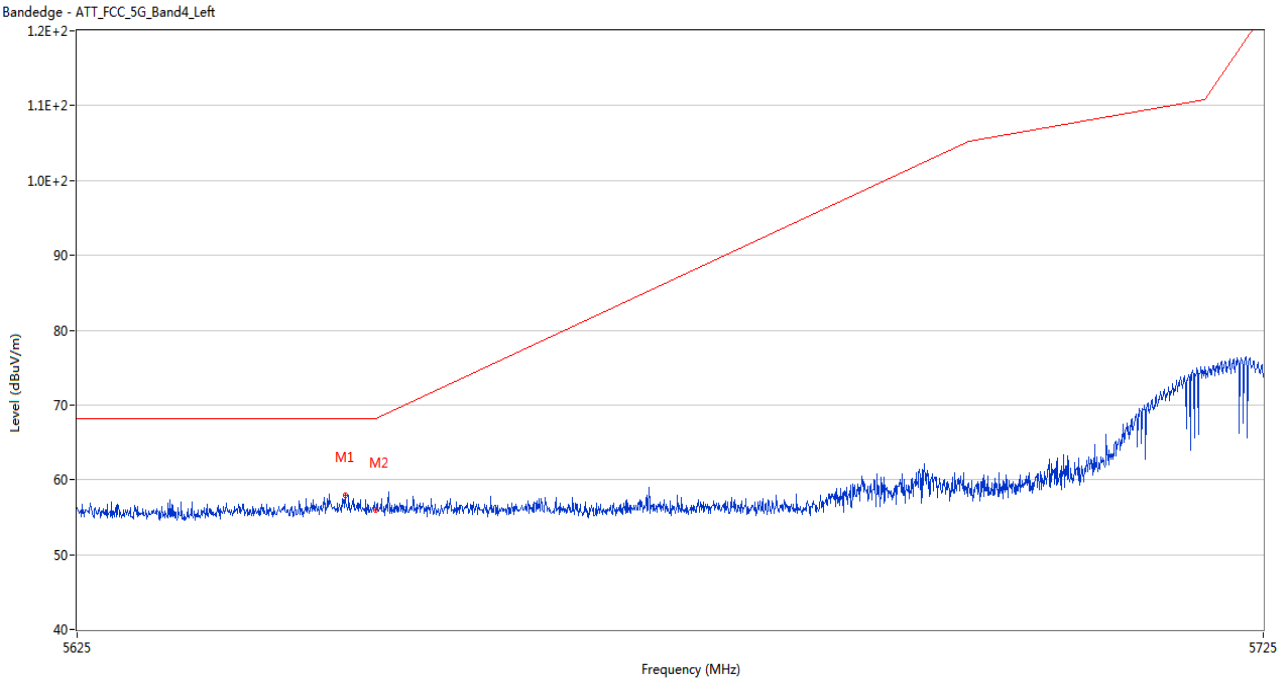
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5645.750	58.53	2.65	68.2	9.67	Peak	218.00	100	Horizontal	Pass
2	5650.000	56.15	2.54	68.2	12.05	Peak	360.00	200	Horizontal	Pass

U-NII-3 11n20 High Channel



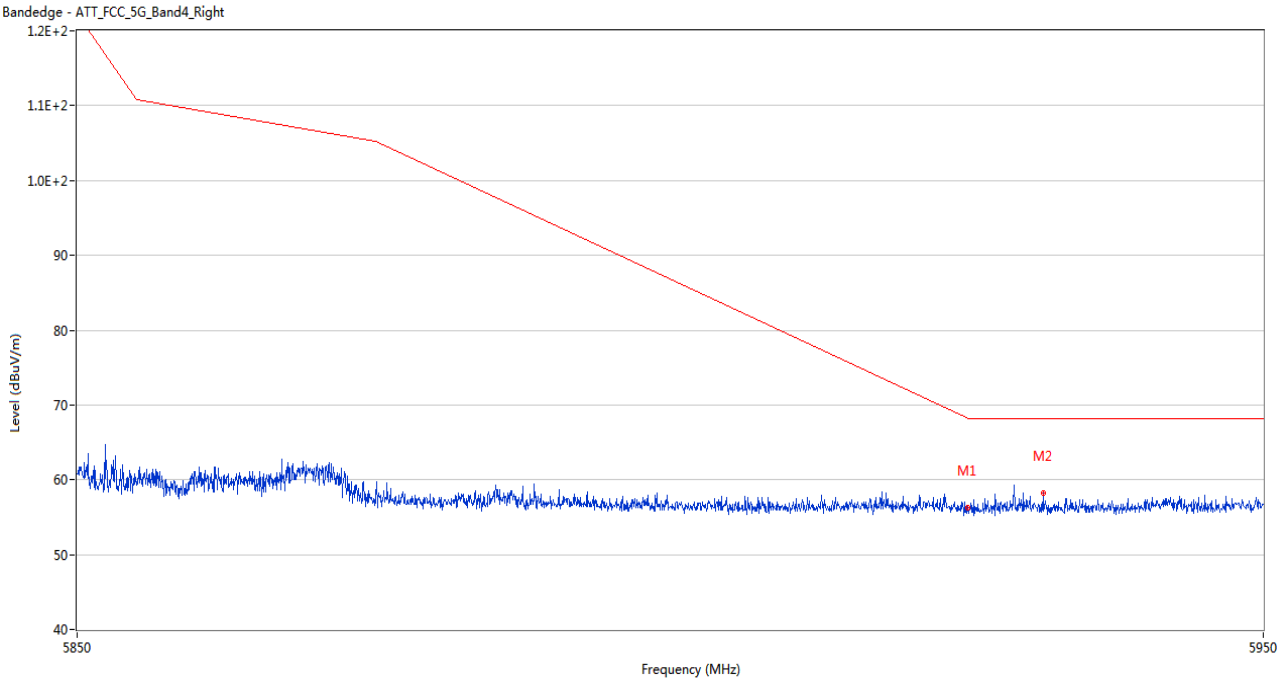
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.01	2.32	68.2	12.19	Peak	293.00	150	Horizontal	Pass
2	5928.300	58.10	2.61	68.2	10.10	Peak	96.00	200	Horizontal	Pass

U-NII-3 11n40 Low Channel



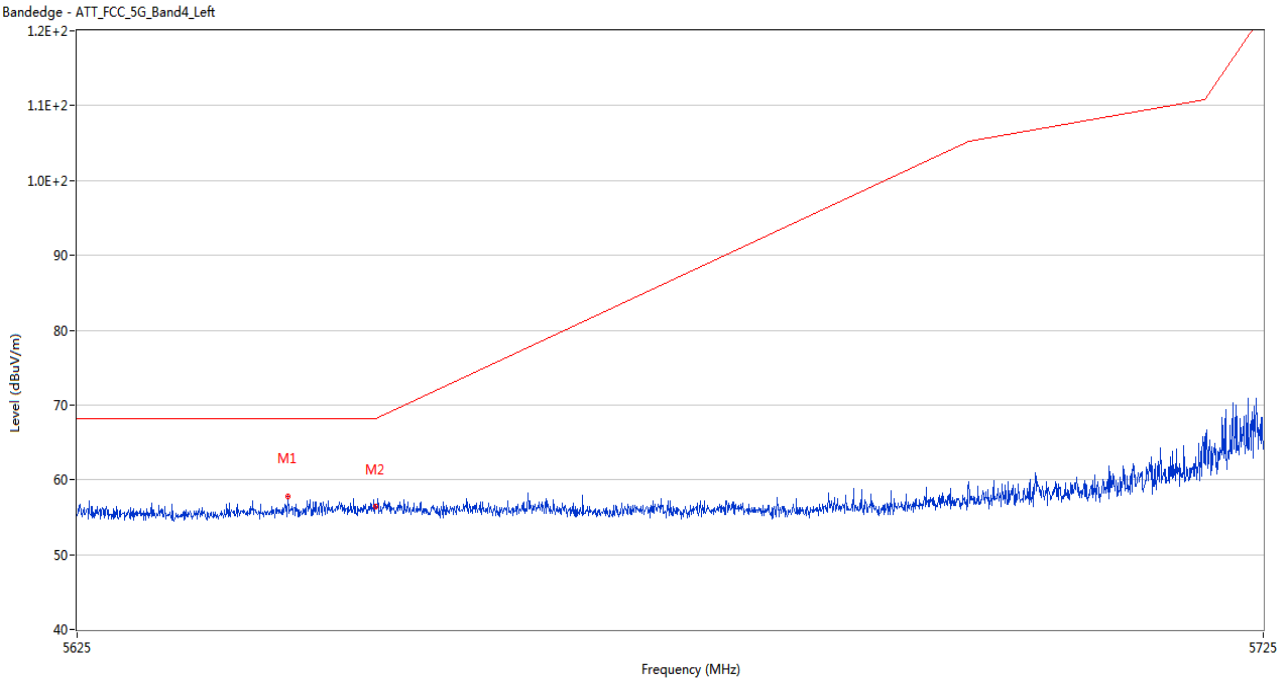
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5647.450	57.99	2.60	68.2	10.21	Peak	360.00	100	Horizontal	Pass
2	5650.000	55.90	2.54	68.2	12.30	Peak	249.00	200	Horizontal	Pass

U-NII-3 11n40 High Channel



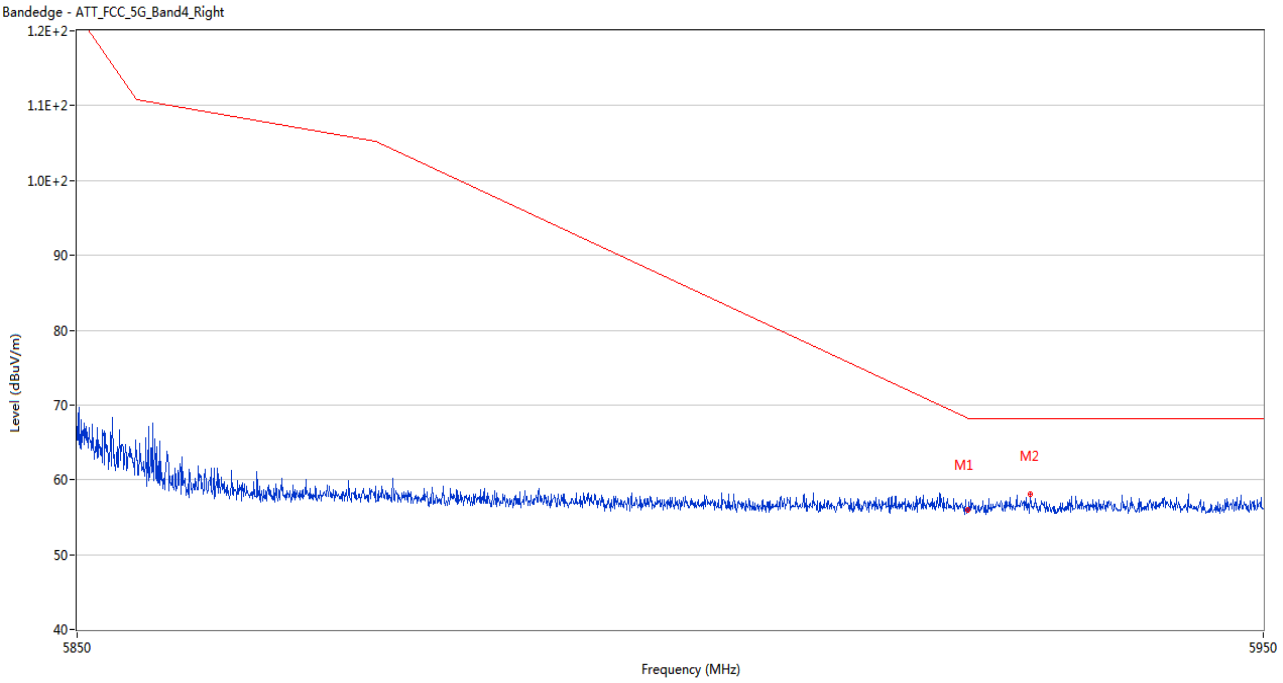
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.25	2.32	68.2	11.95	Peak	178.00	150	Horizontal	Pass
2	5931.300	58.23	2.49	68.2	9.97	Peak	298.00	200	Horizontal	Pass

U-NII-3 11ac20 Low Channel



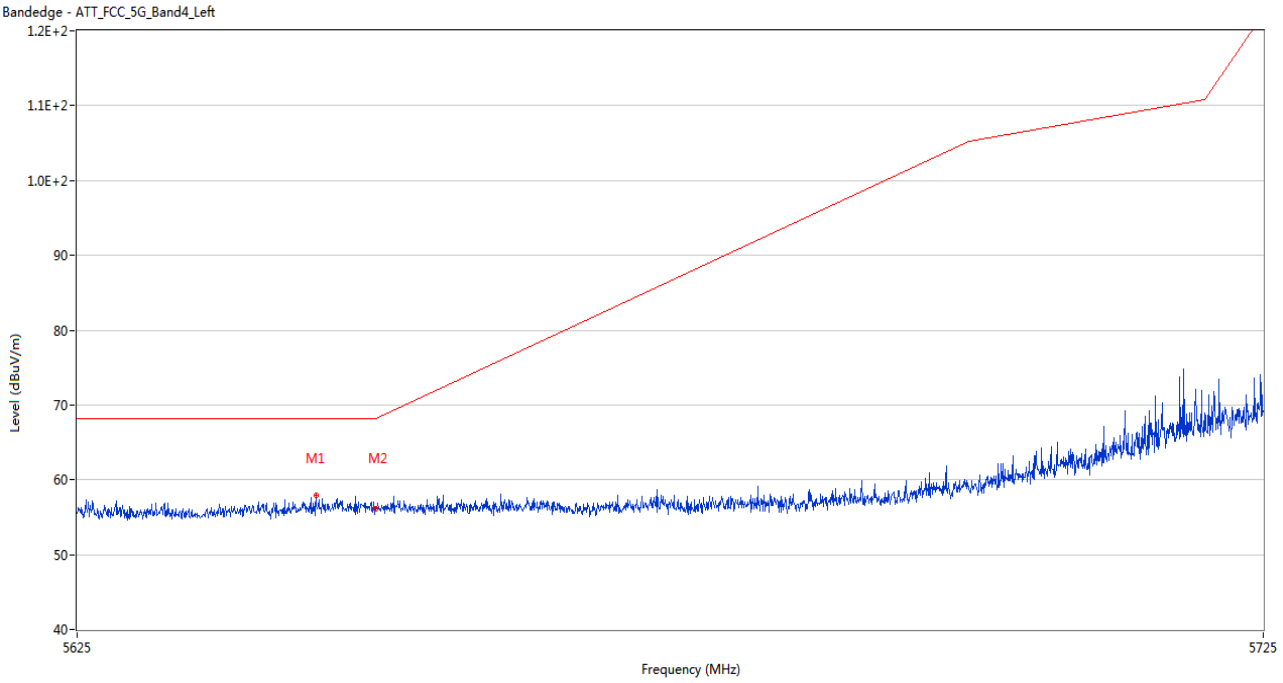
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5642.650	57.84	2.32	68.2	10.36	Peak	0.00	200	Horizontal	Pass
2	5650.000	56.43	2.54	68.2	11.77	Peak	202.00	100	Horizontal	Pass

U-NII-3 11ac20 High Channel



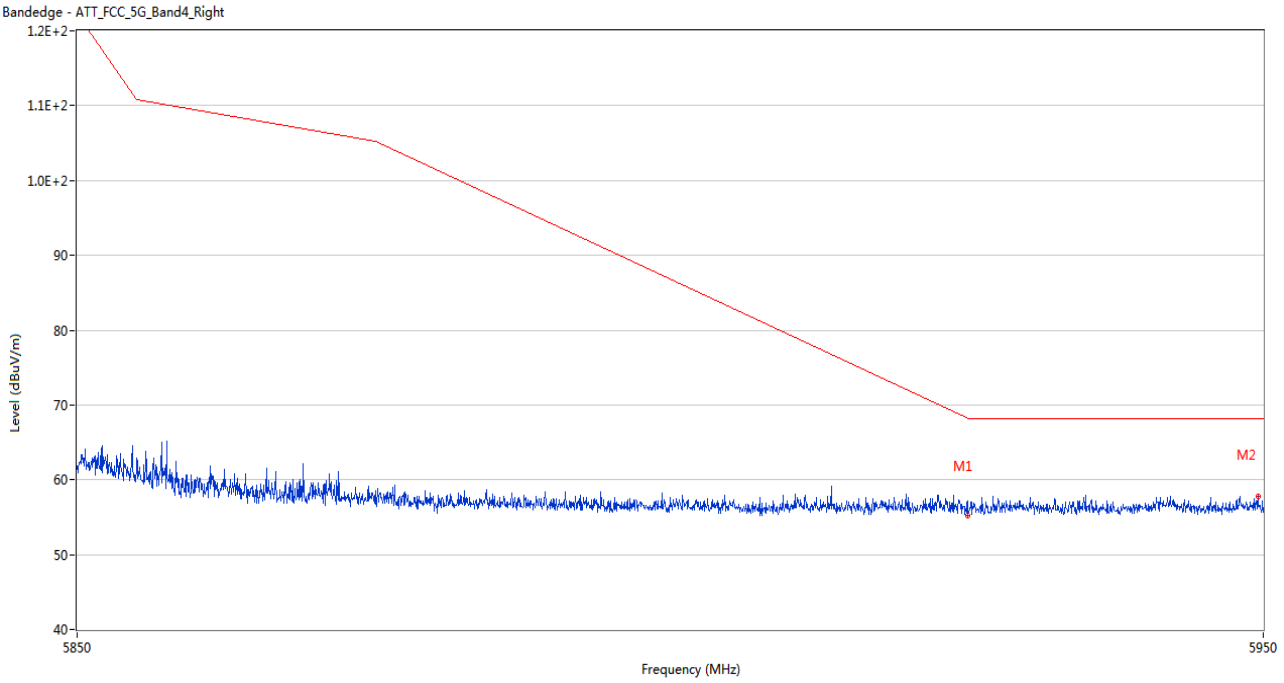
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.95	2.32	68.2	12.25	Peak	339.00	100	Horizontal	Pass
2	5930.250	58.13	2.59	68.2	10.07	Peak	260.00	150	Horizontal	Pass

U-NII-3 11ac40 Low Channel



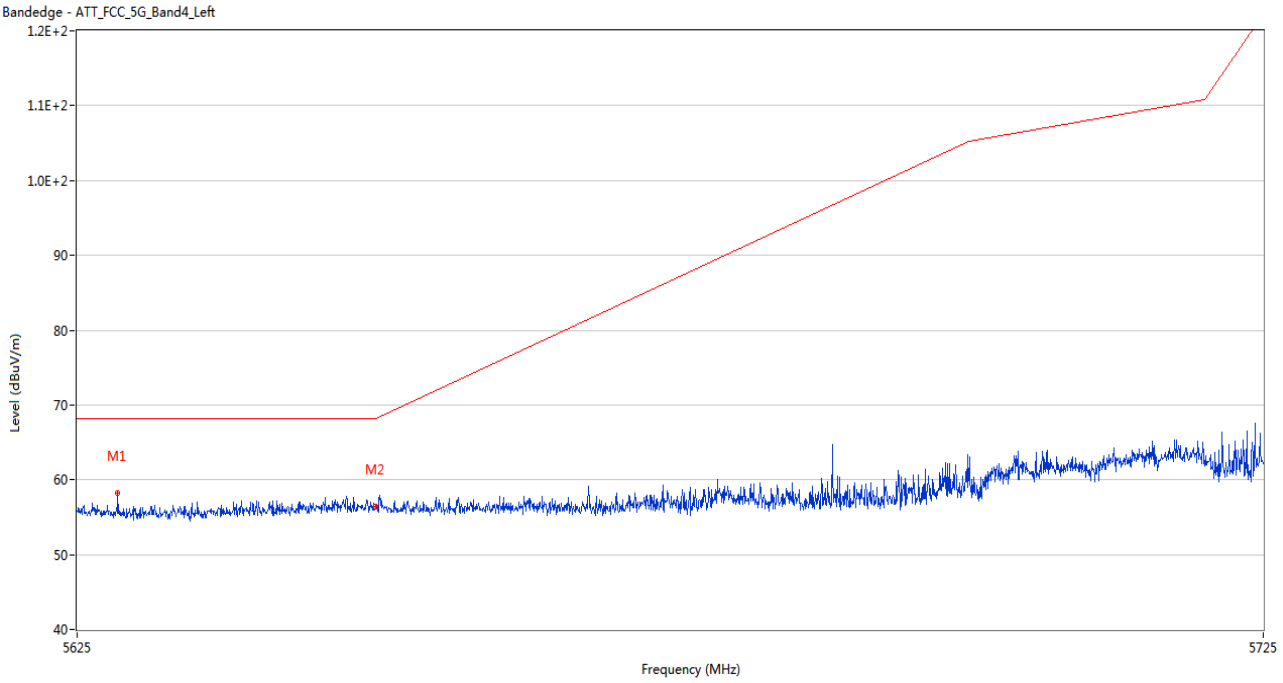
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5645.000	57.91	2.53	68.2	10.29	Peak	188.00	100	Horizontal	Pass
2	5650.000	56.19	2.54	68.2	12.01	Peak	305.00	200	Horizontal	Pass

U-NII-3 11ac40 High Channel



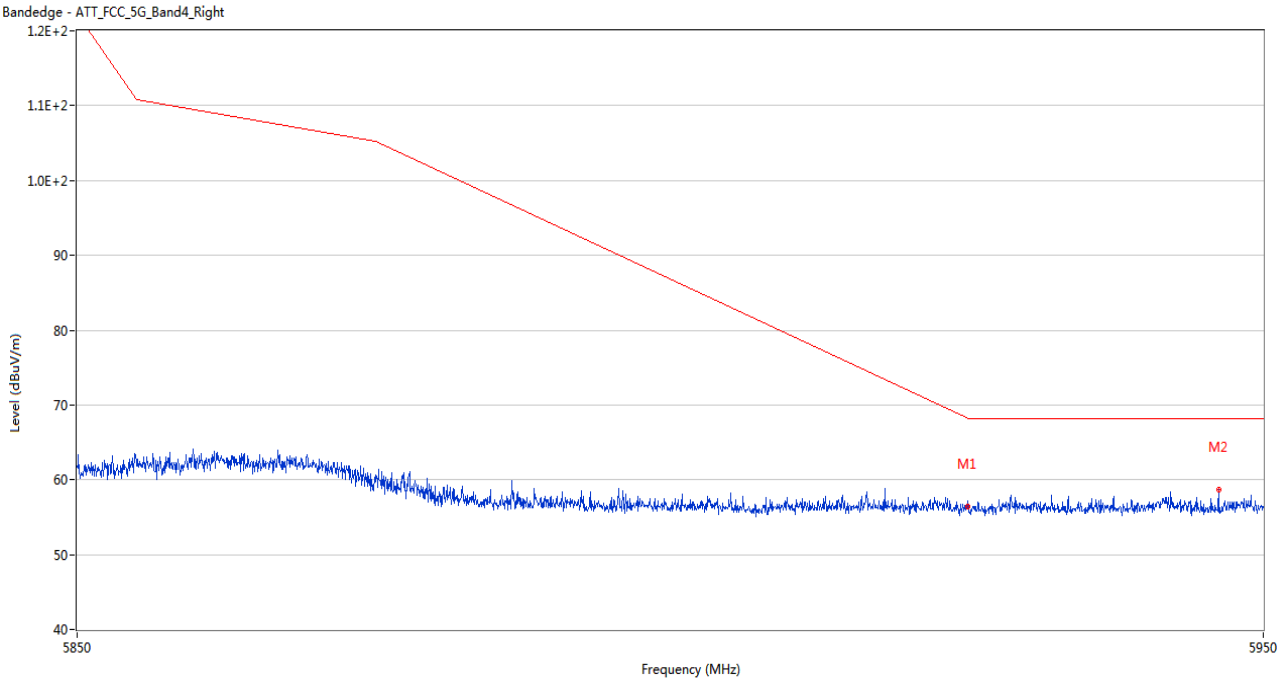
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.22	2.32	68.2	12.98	Peak	172.00	150	Horizontal	Pass
2	5949.550	57.77	2.55	68.2	10.43	Peak	128.00	150	Horizontal	Pass

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	5628.400	58.16	2.15	68.2	10.04	Peak	274.00	200	Horizontal	Pass
2	5650.000	56.35	2.54	68.2	11.85	Peak	301.00	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	5924.950	56.46	2.32	68.2	11.74	Peak	286.00	150	Horizontal	Pass
2	5946.200	58.70	2.34	68.2	9.50	Peak	353.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2440362-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2440362-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2440362-AI.PDF”.

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