TEST REPORT

Applicant:	XOGO Inc
Address:	12723 E Palouse Hwy. Valleyford, WA 99036
Equipment Type:	XOGO Mini Max
Model Name:	XOGO 4K (refer to section 2.3)
Brand Name:	XOGO
FCC ID:	2BGG5-XOGO4K
Test Standard:	47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date:	May 11, 2024
Test Date:	May 17, 2024 - May 28, 2024
Date of Issue:	Jul. 09, 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	Jul. 09, 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	XOGO Inc
Address	12723 E Palouse Hwy. Valleyford, WA 99036

2.2 Manufacturer Information

Manufacturer	Shenzhen SEI Robotics Co, Ltd.
Address	401, Productivity Building D, #5 Hi-Tech Middle 2nd Road, Shenzhen Hi-Tech Industrial Park, Nanshan District, Shenzhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	XOGO Mini Max
Model Name Under Test	XOGO 4K
Series Model Name	SN6BKSA; SN6BKSX (X: A-Z)
Description of Model name differentiation	The circuit, PCB layout, electrical components and appearance of the above model are exactly the same as the basic model, except the model names are different due to different market and customer needs. (this information provided by the applicant)
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g and 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) U-NII-1/3

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: 46.13 mW U-NII-3: 49.32 mW
Antenna System (eg., MIMO, Smart Antenna)		Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac
Categorization as Correlated or Completely Uncorrelated		Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac
Antenna Type	SISO-Antenna A	PCB Antenna
	SISO-Antenna B	
Antenna Gain	SISO-Antenna A	U-NII-1: 5150 MHz to 5250 MHz: -1.46 dBi U-NII-3: 5725 MHz to 5850 MHz: -0.63 dBi
	SISO-Antenna B	U-NII-1: 5150 MHz to 5250 MHz: -1.45 dBi U-NII-3: 5725 MHz to 5850 MHz: -1.88 dBi
Total directional gain	For power spectral density(PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 1.56 dBi U-NII-3: 5725 MHz to 5850 MHz: 1.78 dBi Formulas: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \ldots + 10^{GN/20})^2$ /NANT] dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: -1.45 dBi U-NII-3: 5725 MHz to 5850 MHz: -1.21 dBi

		Formulas: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + … + $10^{GN/10}$)/NANT] dBi
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 1.56 dBi U-NII-3: 5725 MHz to 5850 MHz: 1.78 dBi Formulas: Directional gain = 10 log[($10^{G1/20}$ + $10^{G2/20}$ + … + $10^{GN/20}$)^2 /NANT] dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: -1.45 dBi U-NII-3: 5725 MHz to 5850 MHz: -1.21 dBi Formulas: Directional gain = 10 log[($10^{G1/10}$ + $10^{G2/10}$ + … + $10^{GN/10}$)/NANT] dBi
About the Product		The equipment is XOGO Mini Max, intended for used with information technology equipment.

Mode	Antenna		
	SISO-Antenna A	SISO-Antenna B	MIMO
802.11a	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
802.11ac80	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

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	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	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	55% to 68%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.2℃ to +26.3℃
	LT (Low Temperature)	-10.0℃
	HT (High Temperature)	+40.0℃
Working Voltage of the EUT	NV (Normal Voltage)	5.0 V
	LV (Low Voltage)	4.5 V
	HV (High Voltage)	5.5 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2023.09.05	2024.09.04
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2023.07.12	2024.07.11
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2023.09.05	2024.09.04
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2023.12.27	2024.12.26
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	2025.01.22
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	KEYSIGHT	N9038A	MY53220118	2023.09.05	2024.09.04
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2021.08.20	2024.08.19
Amplifier	COM-MV	ZT30-1000M	B2017119082	2023.12.05	2024.12.04
Anechoic Chamber	RAINFORD	9m*6m*6m	101	2023.03.04	2026.03.03
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2023.09.05	2024.09.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic	3.5m*3.1m*2.8	112	2022.02.19	2025.02.18

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
	Co., Ltd	m			

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.

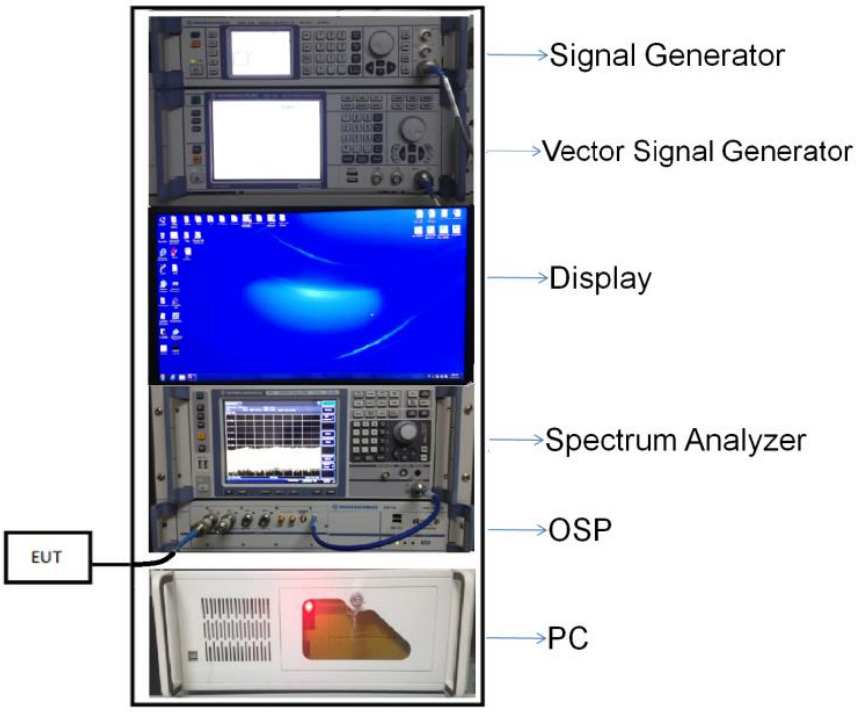
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

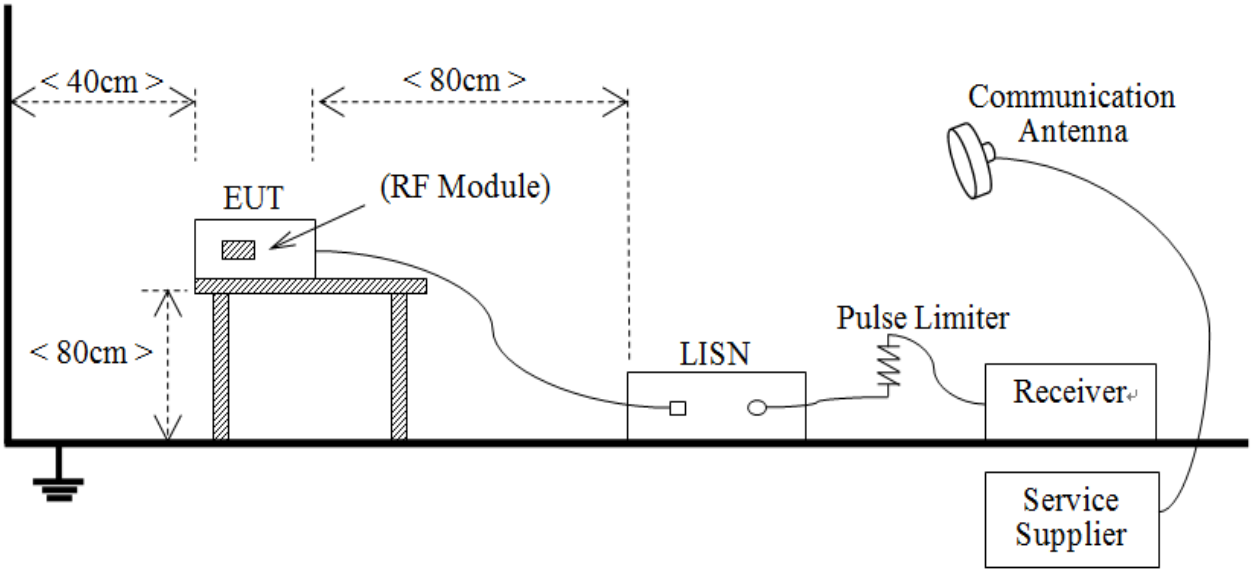
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

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



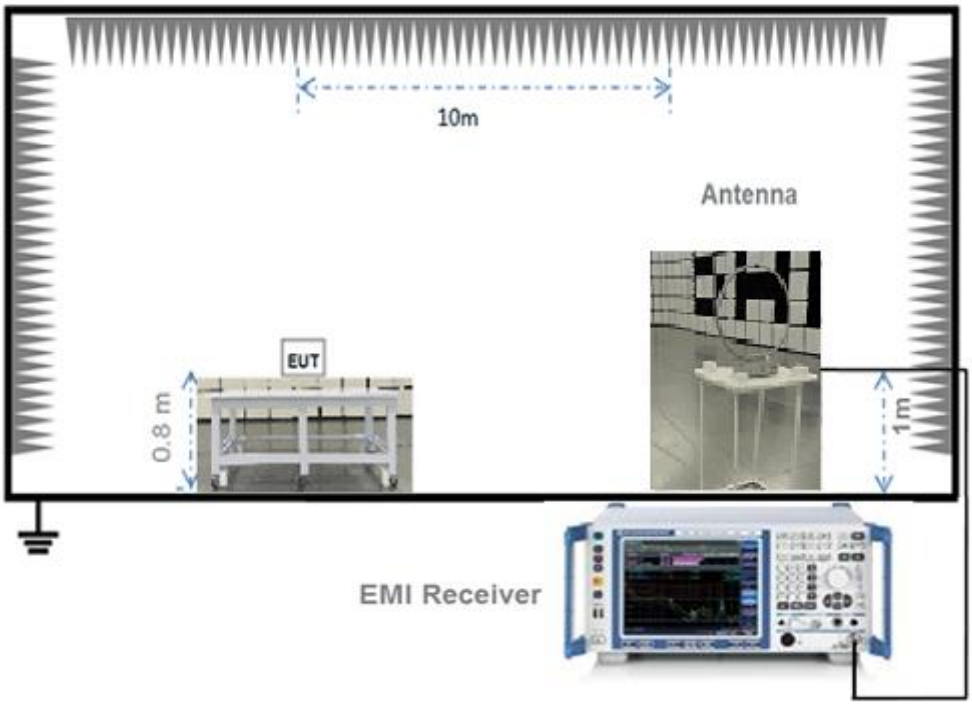
(Diagram 1)

4.5.2 For AC Power Supply Port Test



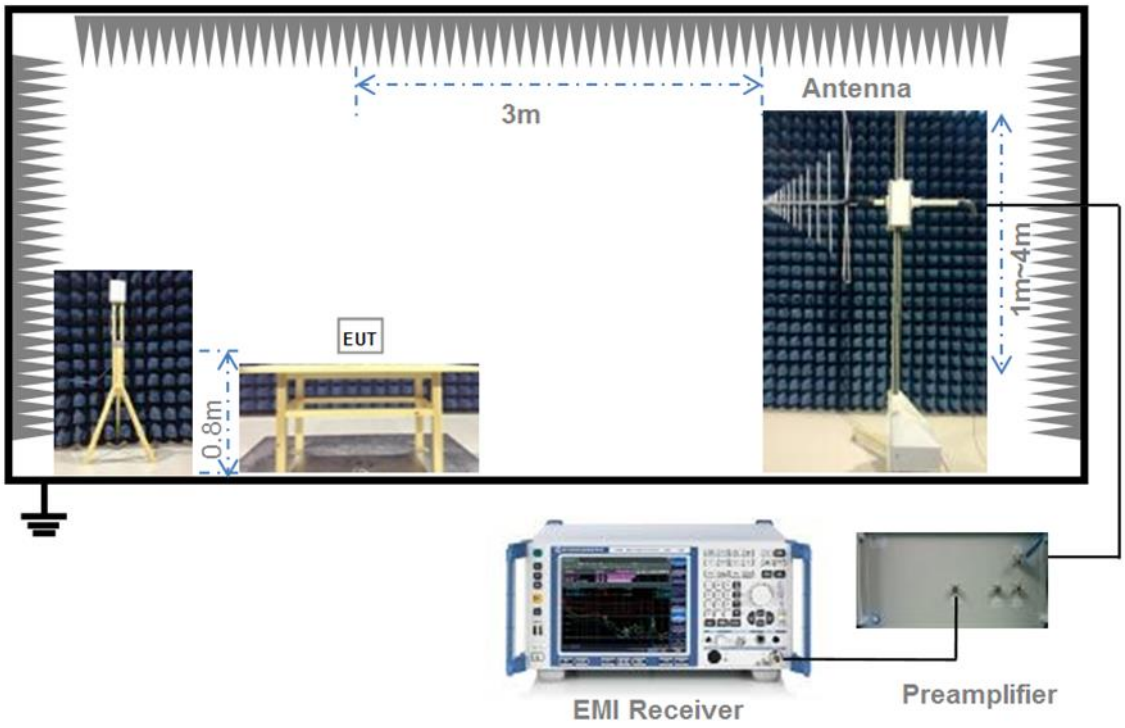
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



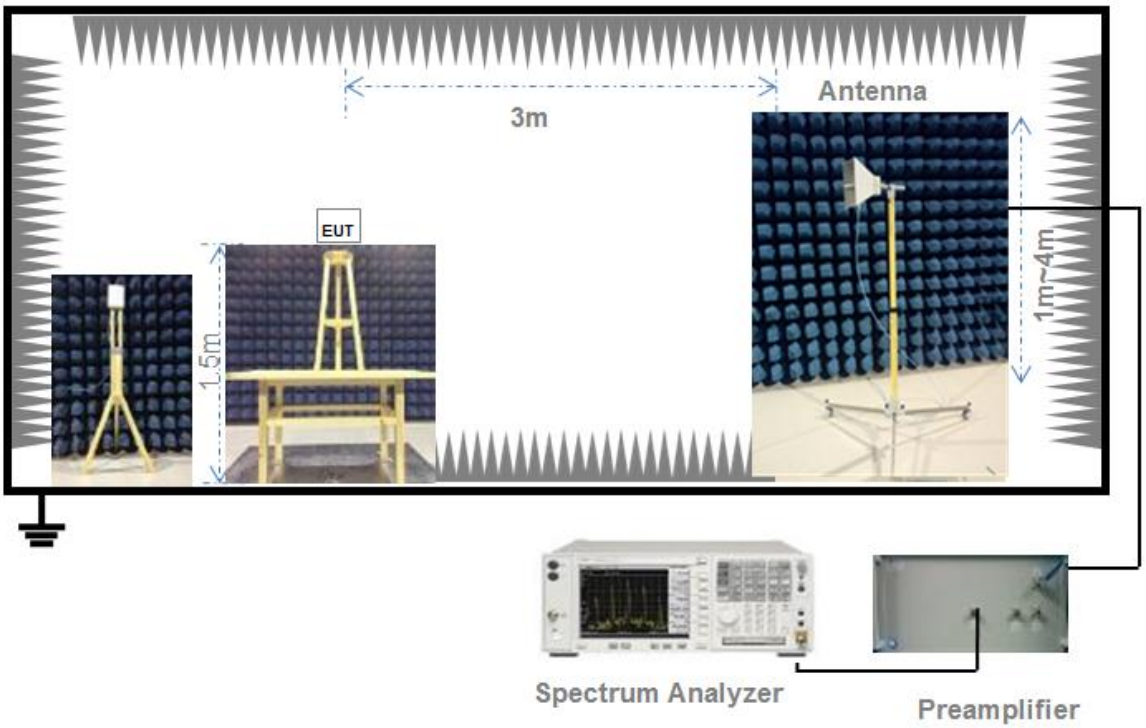
(Diagram 3)

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.

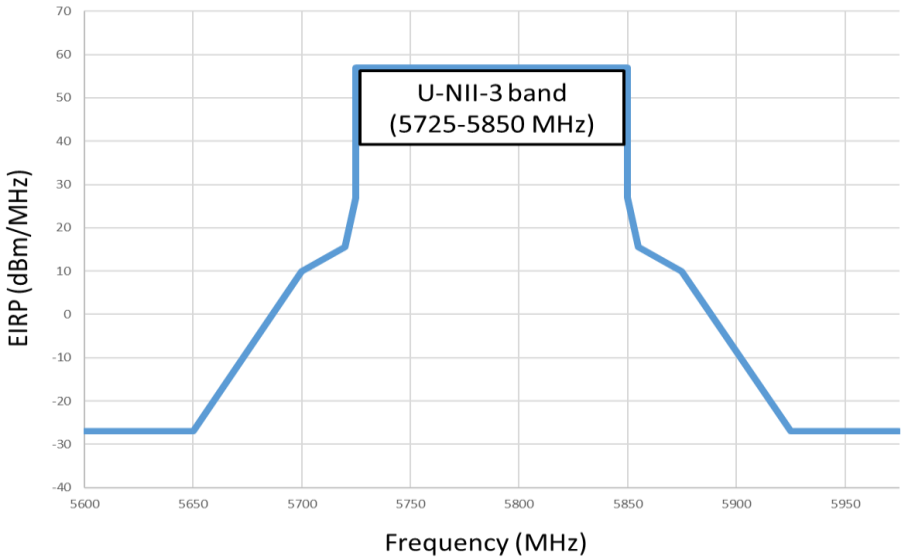
5.5 Radiated Spurious Emissions and Band Edge (Restricted-band)

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	2.05	2.22	92.35%	0.35
11n (HT20)/11ac (VHT20)	1.93	2.11	91.47%	0.39
11n (HT40)/11ac (VHT40)	0.95	1.11	85.88%	0.66
11ac (VHT80)	0.46	0.64	71.95%	1.43

Test Data

Conducted Power

SISO-Antenna A

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.64	46.13	250	Pass
11a	CH44	16.20	41.69	250	Pass
11a	CH48	16.22	41.88	250	Pass
11n (HT20)	CH36	16.05	40.27	250	Pass
11n (HT20)	CH44	16.02	39.99	250	Pass
11n (HT20)	CH48	16.35	43.15	250	Pass
11n (HT40)	CH38	14.30	26.92	250	Pass
11n (HT40)	CH46	16.08	40.55	250	Pass
11ac (VHT20)	CH36	16.07	40.46	250	Pass
11ac (VHT20)	CH44	16.19	41.59	250	Pass
11ac (VHT20)	CH48	16.35	43.15	250	Pass
11ac (VHT40)	CH38	16.02	39.99	250	Pass
11ac (VHT40)	CH46	16.12	40.93	250	Pass
11ac (VHT80)	CH42	15.03	31.84	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.93	49.32	1000	Pass
11a	CH157	16.39	43.55	1000	Pass
11a	CH165	16.47	44.36	1000	Pass
11n (HT20)	CH149	16.72	46.99	1000	Pass
11n (HT20)	CH157	16.78	47.64	1000	Pass
11n (HT20)	CH165	16.58	45.50	1000	Pass
11n (HT40)	CH151	16.70	46.77	1000	Pass
11n (HT40)	CH159	16.68	46.56	1000	Pass
11ac (VHT20)	CH149	16.05	40.27	1000	Pass
11ac (VHT20)	CH157	16.57	45.39	1000	Pass
11ac (VHT20)	CH165	16.55	45.19	1000	Pass
11ac (VHT40)	CH151	16.73	47.10	1000	Pass
11ac (VHT40)	CH159	16.21	41.78	1000	Pass
11ac (VHT80)	CH155	15.73	37.41	1000	Pass

SISO-Antenna B

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	15.67	36.90	250	Pass
11a	CH44	15.52	35.65	250	Pass
11a	CH48	15.85	38.46	250	Pass
11n (HT20)	CH36	15.65	36.73	250	Pass
11n (HT20)	CH44	15.43	34.91	250	Pass
11n (HT20)	CH48	14.95	31.26	250	Pass
11n (HT40)	CH38	13.15	20.65	250	Pass
11n (HT40)	CH46	15.05	31.99	250	Pass
11ac (VHT20)	CH36	15.55	35.89	250	Pass
11ac (VHT20)	CH44	15.36	34.36	250	Pass
11ac (VHT20)	CH48	14.95	31.26	250	Pass
11ac (VHT40)	CH38	14.55	28.51	250	Pass
11ac (VHT40)	CH46	14.85	30.55	250	Pass
11ac (VHT80)	CH42	13.95	24.83	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.48	35.32	1000	Pass
11a	CH157	15.68	36.98	1000	Pass
11a	CH165	15.08	32.21	1000	Pass
11n (HT20)	CH149	15.53	35.73	1000	Pass
11n (HT20)	CH157	15.38	34.51	1000	Pass
11n (HT20)	CH165	15.24	33.42	1000	Pass
11n (HT40)	CH151	15.38	34.51	1000	Pass
11n (HT40)	CH159	15.07	32.14	1000	Pass
11ac (VHT20)	CH149	15.46	35.16	1000	Pass
11ac (VHT20)	CH157	15.52	35.65	1000	Pass
11ac (VHT20)	CH165	15.17	32.89	1000	Pass
11ac (VHT40)	CH151	15.10	32.36	1000	Pass
11ac (VHT40)	CH159	14.91	30.97	1000	Pass
11ac (VHT80)	CH155	14.28	26.79	1000	Pass

MIMO-Antenna A

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	12.53	17.91	250	Pass
11a	CH44	12.14	16.37	250	Pass
11a	CH48	12.38	17.30	250	Pass
11n (HT20)	CH36	12.11	16.26	250	Pass
11n (HT20)	CH44	12.04	16.00	250	Pass
11n (HT20)	CH48	12.35	17.18	250	Pass
11n (HT40)	CH38	10.12	10.28	250	Pass
11n (HT40)	CH46	12.17	16.48	250	Pass
11ac (VHT20)	CH36	12.18	16.52	250	Pass
11ac (VHT20)	CH44	12.27	16.87	250	Pass
11ac (VHT20)	CH48	12.57	18.07	250	Pass
11ac (VHT40)	CH38	12.05	16.03	250	Pass
11ac (VHT40)	CH46	12.21	16.63	250	Pass
11ac (VHT80)	CH42	11.03	12.68	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	12.45	17.58	1000	Pass
11a	CH157	12.41	17.42	1000	Pass
11a	CH165	12.47	17.66	1000	Pass
11n (HT20)	CH149	12.78	18.97	1000	Pass
11n (HT20)	CH157	12.80	19.05	1000	Pass
11n (HT20)	CH165	12.51	17.82	1000	Pass
11n (HT40)	CH151	12.69	18.58	1000	Pass
11n (HT40)	CH159	12.46	17.62	1000	Pass
11ac (VHT20)	CH149	12.37	17.26	1000	Pass
11ac (VHT20)	CH157	12.48	17.70	1000	Pass
11ac (VHT20)	CH165	12.55	17.99	1000	Pass
11ac (VHT40)	CH151	12.25	16.79	1000	Pass
11ac (VHT40)	CH159	12.18	16.52	1000	Pass
11ac (VHT80)	CH155	11.89	15.45	1000	Pass

MIMO-Antenna B

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	12.42	17.46	250	Pass
11a	CH44	12.48	17.70	250	Pass
11a	CH48	12.60	18.20	250	Pass
11n (HT20)	CH36	12.40	17.38	250	Pass
11n (HT20)	CH44	12.18	16.52	250	Pass
11n (HT20)	CH48	11.70	14.79	250	Pass
11n (HT40)	CH38	10.03	10.07	250	Pass
11n (HT40)	CH46	11.80	15.14	250	Pass
11ac (VHT20)	CH36	12.30	16.98	250	Pass
11ac (VHT20)	CH44	12.11	16.26	250	Pass
11ac (VHT20)	CH48	11.70	14.79	250	Pass
11ac (VHT40)	CH38	11.31	13.52	250	Pass
11ac (VHT40)	CH46	11.60	14.45	250	Pass
11ac (VHT80)	CH42	10.70	11.75	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	12.25	16.79	1000	Pass
11a	CH157	12.45	17.58	1000	Pass
11a	CH165	11.83	15.24	1000	Pass
11n (HT20)	CH149	12.30	16.98	1000	Pass
11n (HT20)	CH157	12.13	16.33	1000	Pass
11n (HT20)	CH165	11.99	15.81	1000	Pass
11n (HT40)	CH151	12.13	16.33	1000	Pass
11n (HT40)	CH159	11.82	15.21	1000	Pass
11ac (VHT20)	CH149	12.21	16.63	1000	Pass
11ac (VHT20)	CH157	12.27	16.87	1000	Pass
11ac (VHT20)	CH165	11.92	15.56	1000	Pass
11ac (VHT40)	CH151	11.87	15.38	1000	Pass
11ac (VHT40)	CH159	11.66	14.66	1000	Pass
11ac (VHT80)	CH155	11.06	12.76	1000	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	15.49	35.36	250	Pass
11a	CH44	15.32	34.07	250	Pass
11a	CH48	15.50	35.50	250	Pass
11n (HT20)	CH36	15.27	33.63	250	Pass
11n (HT20)	CH44	15.12	32.52	250	Pass
11n (HT20)	CH48	15.05	31.97	250	Pass
11n (HT40)	CH38	13.09	20.35	250	Pass
11n (HT40)	CH46	15.00	31.62	250	Pass
11ac (VHT20)	CH36	15.25	33.50	250	Pass
11ac (VHT20)	CH44	15.20	33.12	250	Pass
11ac (VHT20)	CH48	15.17	32.86	250	Pass
11ac (VHT40)	CH38	14.71	29.55	250	Pass
11ac (VHT40)	CH46	14.93	31.09	250	Pass
11ac (VHT80)	CH42	13.88	24.43	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.36	34.37	1000	Pass
11a	CH157	15.44	35.00	1000	Pass
11a	CH165	15.17	32.90	1000	Pass
11n (HT20)	CH149	15.56	35.95	1000	Pass
11n (HT20)	CH157	15.49	35.39	1000	Pass
11n (HT20)	CH165	15.27	33.64	1000	Pass
11n (HT40)	CH151	15.43	34.91	1000	Pass
11n (HT40)	CH159	15.16	32.83	1000	Pass
11ac (VHT20)	CH149	15.30	33.89	1000	Pass
11ac (VHT20)	CH157	15.39	34.57	1000	Pass
11ac (VHT20)	CH165	15.26	33.55	1000	Pass
11ac (VHT40)	CH151	15.07	32.17	1000	Pass
11ac (VHT40)	CH159	14.94	31.18	1000	Pass
11ac (VHT80)	CH155	14.51	28.22	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2450413-604 Data Part 1.pdf”.
Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Antenna A

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	18.62	16.36
11a	CH44	18.44	16.32
11a	CH48	19.01	16.36
11n (HT20)	CH36	19.48	17.52
11n (HT20)	CH44	19.48	17.55
11n (HT20)	CH48	19.61	17.53
11n (HT40)	CH38	41.17	36.17
11n (HT40)	CH46	40.96	36.19
11ac (VHT20)	CH36	19.45	17.50
11ac (VHT20)	CH44	19.41	17.52
11ac (VHT20)	CH48	19.44	17.53
11ac (VHT40)	CH38	40.84	36.15
11ac (VHT40)	CH46	41.16	36.24
11ac (VHT80)	CH42	81.27	74.93

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.04	16.36
11a	CH157	18.54	16.35
11a	CH165	18.57	16.34
11n (HT20)	CH149	19.80	17.53
11n (HT20)	CH157	19.50	17.52
11n (HT20)	CH165	19.45	17.51
11n (HT40)	CH151	41.49	36.21
11n (HT40)	CH159	41.28	36.22
11ac (VHT20)	CH149	19.85	17.56
11ac (VHT20)	CH157	19.63	17.52
11ac (VHT20)	CH165	19.45	17.50
11ac (VHT40)	CH151	42.20	36.37
11ac (VHT40)	CH159	41.45	36.17
11ac (VHT80)	CH155	80.94	75.05

A.3 6 dB Bandwidth

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2450413-604 Data Part 2.pdf”.
Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Antenna A

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.50	500.00	Pass
11a	CH157	16.50	500.00	Pass
11a	CH165	16.50	500.00	Pass
11n (HT20)	CH149	17.80	500.00	Pass
11n (HT20)	CH157	17.50	500.00	Pass
11n (HT20)	CH165	17.80	500.00	Pass
11n (HT40)	CH151	35.40	500.00	Pass
11n (HT40)	CH159	35.40	500.00	Pass
11ac (VHT20)	CH149	17.70	500.00	Pass
11ac (VHT20)	CH157	17.80	500.00	Pass
11ac (VHT20)	CH165	17.50	500.00	Pass
11ac (VHT40)	CH151	35.40	500.00	Pass
11ac (VHT40)	CH159	35.40	500.00	Pass
11ac (VHT80)	CH155	75.20	500.00	Pass

A.4 Power Spectral Density

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2450413-604 Data Part 3.pdf”.
Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Antenna A

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	4.95	11.00	Pass
11a	CH44	4.87	11.00	Pass
11a	CH48	4.63	11.00	Pass
11n (HT20)	CH36	4.31	11.00	Pass
11n (HT20)	CH44	4.41	11.00	Pass
11n (HT20)	CH48	4.91	11.00	Pass
11n (HT40)	CH38	-0.33	11.00	Pass
11n (HT40)	CH46	1.55	11.00	Pass
11ac (VHT20)	CH36	4.14	11.00	Pass
11ac (VHT20)	CH44	4.27	11.00	Pass
11ac (VHT20)	CH48	4.48	11.00	Pass
11ac (VHT40)	CH38	1.34	11.00	Pass
11ac (VHT40)	CH46	1.48	11.00	Pass
11ac (VHT80)	CH42	-2.37	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	2.83	30.00	Pass
11a	CH157	2.33	30.00	Pass
11a	CH165	2.35	30.00	Pass
11n (HT20)	CH149	2.17	30.00	Pass
11n (HT20)	CH157	2.11	30.00	Pass
11n (HT20)	CH165	1.91	30.00	Pass
11n (HT40)	CH151	-0.29	30.00	Pass
11n (HT40)	CH159	-0.48	30.00	Pass
11ac (VHT20)	CH149	2.92	30.00	Pass
11ac (VHT20)	CH157	2.32	30.00	Pass
11ac (VHT20)	CH165	2.19	30.00	Pass
11ac (VHT40)	CH151	-0.36	30.00	Pass
11ac (VHT40)	CH159	-0.86	30.00	Pass
11ac (VHT80)	CH155	-4.53	30.00	Pass

A.5 Conducted Emissions

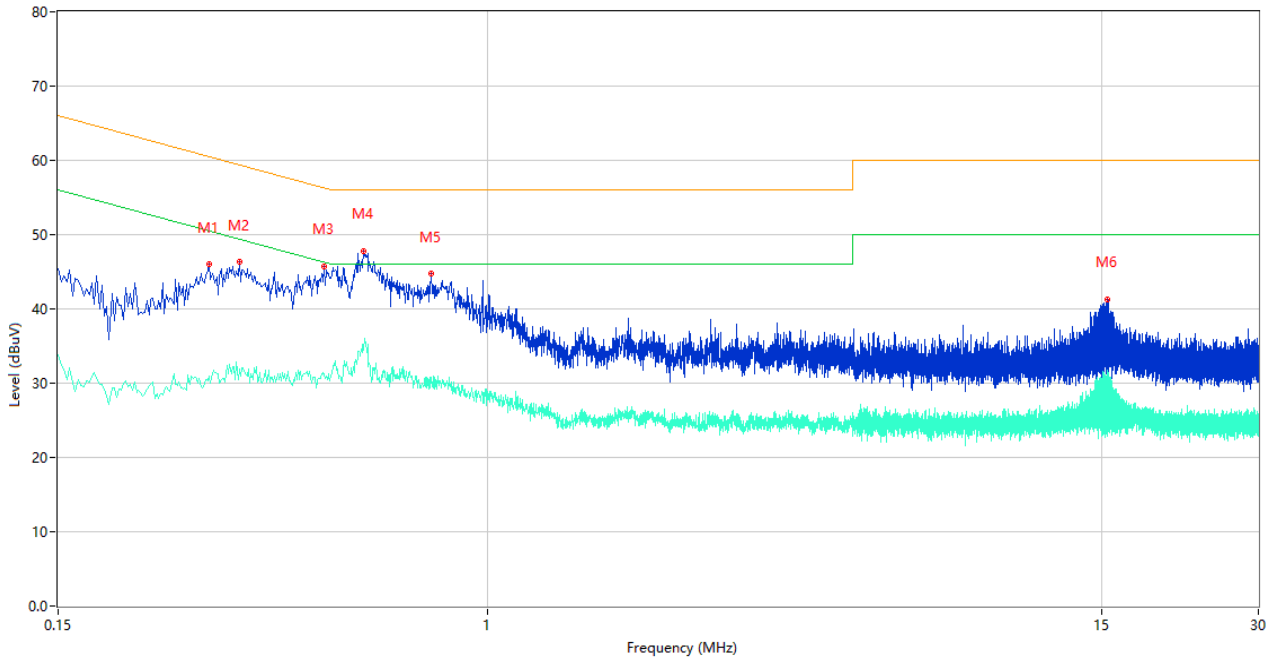
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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)

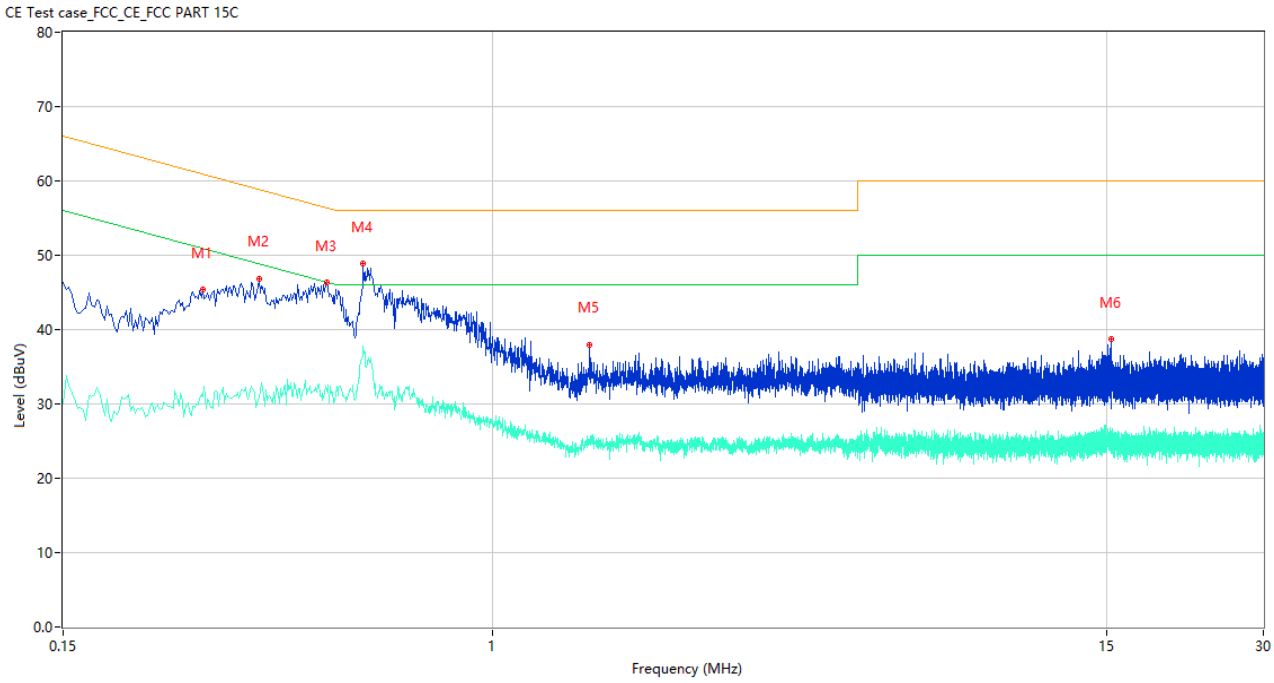
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.292	45.98	9.76	60.47	14.49	Peak	L	Pass
1**	0.292	30.90	9.76	50.47	19.57	AV	L	Pass
2	0.334	46.30	10.44	59.35	13.05	Peak	L	Pass
2**	0.334	31.91	10.44	49.35	17.44	AV	L	Pass
3	0.486	45.73	9.99	56.24	10.51	Peak	L	Pass
3**	0.486	31.31	9.99	46.24	14.93	AV	L	Pass
4	0.578	47.83	10.10	56.00	8.17	Peak	L	Pass
4**	0.578	34.42	10.10	46.00	11.58	AV	L	Pass
5	0.780	44.72	10.39	56.00	11.28	Peak	L	Pass
5**	0.780	30.24	10.39	46.00	15.76	AV	L	Pass
6	15.424	41.27	10.62	60.00	18.73	Peak	L	Pass
6**	15.424	30.98	10.62	50.00	19.02	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.278	45.39	9.76	60.88	15.49	Peak	N	Pass
1**	0.278	30.98	9.76	50.88	19.90	AV	N	Pass
2	0.356	46.84	10.73	58.82	11.98	Peak	N	Pass
2**	0.356	30.97	10.73	48.82	17.85	AV	N	Pass
3	0.480	46.27	10.00	56.34	10.07	Peak	N	Pass
3**	0.480	32.02	10.00	46.34	14.32	AV	N	Pass
4	0.564	48.82	10.07	56.00	7.18	Peak	N	Pass
4**	0.564	37.79	10.07	46.00	8.21	AV	N	Pass
5	1.534	38.01	10.19	56.00	17.99	Peak	N	Pass
5**	1.534	24.63	10.19	46.00	21.37	AV	N	Pass
6	15.324	38.68	10.62	60.00	21.32	Peak	N	Pass
6**	15.324	25.12	10.62	50.00	24.88	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.

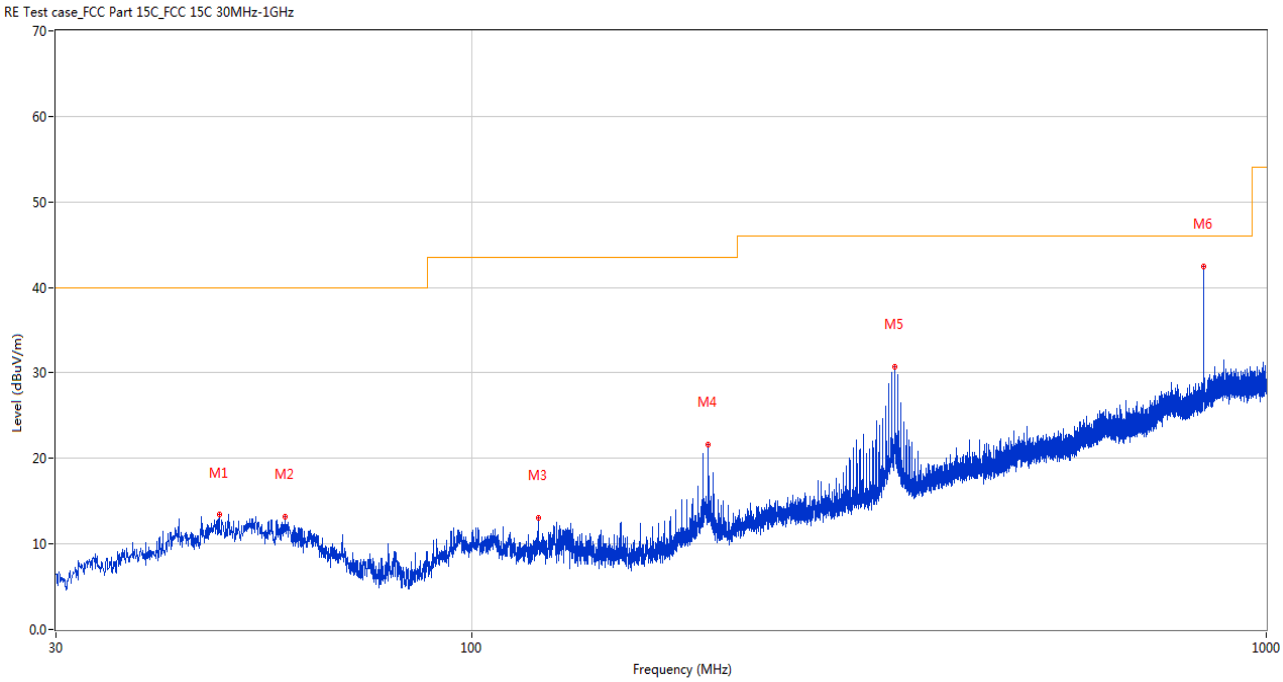
Note [2]: For the test data above 1 GHz，According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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.

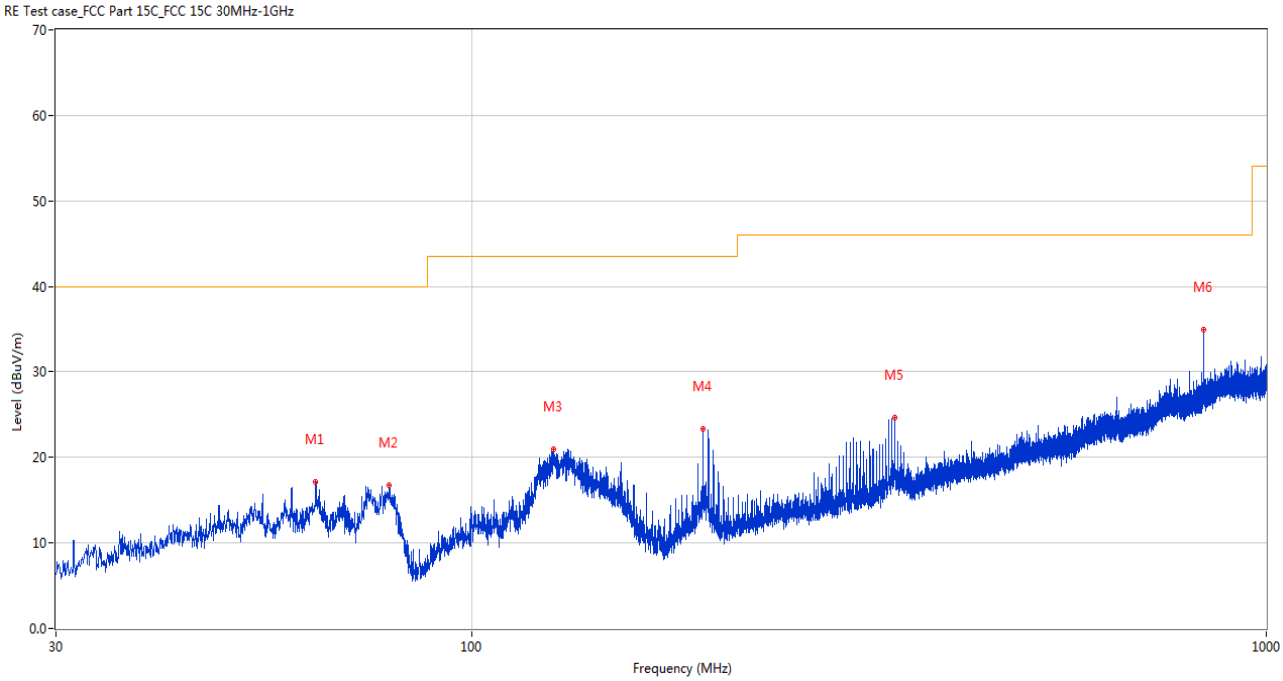
Test Data and Plots

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	48.139	13.40	-23.26	40.0	26.60	Peak	122.10	100	Horizontal	Pass
2	58.227	13.13	-23.80	40.0	26.87	Peak	70.80	100	Horizontal	Pass
3	121.326	13.01	-27.38	43.5	30.49	Peak	97.60	100	Horizontal	Pass
4	198.586	21.58	-23.95	43.5	21.92	Peak	2.50	100	Horizontal	Pass
5	340.788	30.70	-19.28	46.0	15.30	Peak	291.40	100	Horizontal	Pass
6	833.354	42.46	-9.51	46.0	3.54	Peak	245.60	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	63.659	17.18	-25.09	40.0	22.82	Peak	209.40	100	Vertical	Pass
2	78.791	16.79	-29.90	40.0	23.21	Peak	265.40	100	Vertical	Pass
3	126.903	20.91	-27.89	43.5	22.59	Peak	222.70	100	Vertical	Pass
4	195.628	23.34	-23.67	43.5	20.16	Peak	89.10	100	Vertical	Pass
5	340.836	24.62	-19.28	46.0	21.38	Peak	217.40	100	Vertical	Pass
6	833.354	34.88	-9.51	46.0	11.12	Peak	45.80	100	Vertical	Pass

Note 1: The spurious above 18G is noise only, do not show on the report.

Note 2: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-Antenna A

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	1500.000	45.26	-16.94	74.0	28.74	Peak	319.00	400	Horizontal	Pass
1**	1500.000	42.18	-16.94	54.0	11.82	AV	319.00	400	Horizontal	Pass
2	4389.200	50.37	-3.36	74.0	23.63	Peak	360.00	300	Horizontal	Pass
2**	4389.200	42.01	-3.36	54.0	11.99	AV	360.00	300	Horizontal	Pass
3	5187.800	106.81	-2.36	--	--	Peak	246.00	200	Horizontal	N/A
3**	5187.800	99.44	-2.36	--	--	AV	246.00	200	Horizontal	N/A
4	7333.212	49.84	-3.14	74.0	24.16	Peak	150.00	100	Horizontal	Pass
4**	7333.212	40.53	-3.14	54.0	13.47	AV	150.00	100	Horizontal	Pass
5	12275.912	52.98	1.65	74.0	21.02	Peak	0.00	100	Horizontal	Pass
5**	12275.912	43.99	1.65	54.0	10.01	AV	0.00	100	Horizontal	Pass
6	16157.776	56.02	0.93	74.0	17.98	Peak	321.00	200	Horizontal	Pass
6**	16157.776	45.29	0.93	54.0	8.71	AV	321.00	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	1500.100	42.36	-16.92	74.0	31.64	Peak	248.00	300	Vertical	Pass
1**	1500.100	38.61	-16.92	54.0	15.39	AV	248.00	300	Vertical	Pass
2	4389.800	50.29	-3.33	74.0	23.71	Peak	360.00	300	Vertical	Pass
2**	4389.800	41.31	-3.33	54.0	12.69	AV	360.00	300	Vertical	Pass
3	5178.400	93.38	-2.52	--	--	Peak	261.00	150	Vertical	N/A
3**	5178.400	85.00	-2.52	--	--	AV	261.00	150	Vertical	N/A
4	7733.412	49.28	-2.35	74.0	24.72	Peak	38.00	200	Vertical	Pass
4**	7733.412	39.86	-2.35	54.0	14.14	AV	38.00	200	Vertical	Pass
5	12303.799	53.07	1.41	74.0	20.93	Peak	360.00	150	Vertical	Pass
5**	12303.799	43.15	1.41	54.0	10.85	AV	360.00	150	Vertical	Pass
6	15382.612	55.75	0.26	74.0	18.25	Peak	148.00	200	Vertical	Pass
6**	15382.612	45.50	0.26	54.0	8.50	AV	148.00	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	1500.000	44.64	-16.94	74.0	29.36	Peak	349.00	400	Horizontal	Pass
1**	1500.000	42.26	-16.94	54.0	11.74	AV	349.00	400	Horizontal	Pass
2	4380.800	50.70	-3.46	74.0	23.30	Peak	192.00	300	Horizontal	Pass
2**	4380.800	41.28	-3.46	54.0	12.72	AV	192.00	300	Horizontal	Pass
3	5221.000	106.27	-2.71	--	--	Peak	248.00	100	Horizontal	N/A
3**	5221.000	98.40	-2.71	--	--	AV	248.00	100	Horizontal	N/A
4	7341.550	49.22	-3.12	74.0	24.78	Peak	288.00	200	Horizontal	Pass
4**	7341.550	41.00	-3.12	54.0	13.00	AV	288.00	200	Horizontal	Pass
5	11986.688	52.86	1.04	74.0	21.14	Peak	251.00	150	Horizontal	Pass
5**	11986.688	42.50	1.04	54.0	11.50	AV	251.00	150	Horizontal	Pass
6	16008.150	55.63	0.40	74.0	18.37	Peak	316.00	200	Horizontal	Pass
6**	16008.150	44.94	0.40	54.0	9.06	AV	316.00	200	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	1500.100	42.27	-16.92	74.0	31.73	Peak	242.00	100	Vertical	Pass
1**	1500.100	38.10	-16.92	54.0	15.90	AV	242.00	100	Vertical	Pass
2	4379.600	50.65	-3.30	74.0	23.35	Peak	144.00	200	Vertical	Pass
2**	4379.600	42.21	-3.30	54.0	11.79	AV	144.00	200	Vertical	Pass
3	5222.000	95.91	-2.69	--	--	Peak	271.00	100	Vertical	N/A
3**	5222.000	88.04	-2.69	--	--	AV	271.00	100	Vertical	N/A
4	7355.350	50.42	-3.78	74.0	23.58	Peak	15.00	100	Vertical	Pass
4**	7355.350	40.16	-3.78	54.0	13.84	AV	15.00	100	Vertical	Pass
5	11947.875	53.05	1.46	74.0	20.95	Peak	164.00	150	Vertical	Pass
5**	11947.875	43.66	1.46	54.0	10.34	AV	164.00	150	Vertical	Pass
6	15804.450	55.56	2.28	74.0	18.44	Peak	171.00	100	Vertical	Pass
6**	15804.450	46.50	2.28	54.0	7.50	AV	171.00	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	1500.100	45.38	-16.92	74.0	28.62	Peak	327.00	300	Horizontal	Pass
1**	1500.100	42.24	-16.92	54.0	11.76	AV	327.00	300	Horizontal	Pass
2	4383.800	50.02	-3.64	74.0	23.98	Peak	77.00	400	Horizontal	Pass
2**	4383.800	41.55	-3.64	54.0	12.45	AV	77.00	400	Horizontal	Pass
3	5236.000	108.41	-2.52	--	--	Peak	245.00	150	Horizontal	N/A
3**	5236.000	100.66	-2.52	--	--	AV	245.00	150	Horizontal	N/A
4	7673.612	50.42	-2.31	74.0	23.58	Peak	157.00	300	Horizontal	Pass
4**	7673.612	40.64	-2.31	54.0	13.36	AV	157.00	300	Horizontal	Pass
5	12317.025	53.37	1.41	74.0	20.63	Peak	78.00	150	Horizontal	Pass
5**	12317.025	43.40	1.41	54.0	10.60	AV	78.00	150	Horizontal	Pass
6	15656.138	56.27	1.21	74.0	17.73	Peak	243.00	200	Horizontal	Pass
6**	15656.138	46.70	1.21	54.0	7.30	AV	243.00	200	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	1500.200	42.09	-16.90	74.0	31.91	Peak	245.00	400	Vertical	Pass
1**	1500.200	38.23	-16.90	54.0	15.77	AV	245.00	400	Vertical	Pass
2	4384.600	50.47	-3.54	74.0	23.53	Peak	122.00	400	Vertical	Pass
2**	4384.600	41.09	-3.54	54.0	12.91	AV	122.00	400	Vertical	Pass
3	5241.200	97.39	-2.61	--	--	Peak	275.00	100	Vertical	N/A
3**	5241.200	88.41	-2.61	--	--	AV	275.00	100	Vertical	N/A
4	7335.513	49.98	-3.28	74.0	24.02	Peak	360.00	400	Vertical	Pass
4**	7335.513	40.88	-3.28	54.0	13.12	AV	360.00	400	Vertical	Pass
5	12295.175	53.25	1.57	74.0	20.75	Peak	360.00	200	Vertical	Pass
5**	12295.175	43.35	1.57	54.0	10.65	AV	360.00	200	Vertical	Pass
6	15854.588	55.32	1.20	74.0	18.68	Peak	342.00	150	Vertical	Pass
6**	15854.588	45.83	1.20	54.0	8.17	AV	342.00	150	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	1500.200	44.48	-16.90	74.0	29.52	Peak	352.00	100	Horizontal	Pass
1**	1500.200	41.97	-16.90	54.0	12.03	AV	352.00	100	Horizontal	Pass
2	4396.600	50.77	-4.00	74.0	23.23	Peak	195.00	400	Horizontal	Pass
2**	4396.600	40.89	-4.00	54.0	13.11	AV	195.00	400	Horizontal	Pass
3	5184.600	107.87	-2.46	--	--	Peak	259.00	200	Horizontal	N/A
3**	5184.600	100.35	-2.46	--	--	AV	259.00	200	Horizontal	N/A
4	7447.638	49.66	-3.23	74.0	24.34	Peak	298.00	200	Horizontal	Pass
4**	7447.638	40.35	-3.23	54.0	13.65	AV	298.00	200	Horizontal	Pass
5	11206.412	53.37	-0.25	74.0	20.63	Peak	360.00	200	Horizontal	Pass
5**	11206.412	44.34	-0.25	54.0	9.66	AV	360.00	200	Horizontal	Pass
6	15771.638	55.77	1.13	74.0	18.23	Peak	0.00	100	Horizontal	Pass
6**	15771.638	45.66	1.13	54.0	8.34	AV	0.00	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	1499.900	42.18	-16.96	74.0	31.82	Peak	244.00	400	Vertical	Pass
1**	1499.900	37.43	-16.96	54.0	16.57	AV	244.00	400	Vertical	Pass
2	4391.400	50.15	-3.43	74.0	23.85	Peak	271.00	400	Vertical	Pass
2**	4391.400	42.33	-3.43	54.0	11.67	AV	271.00	400	Vertical	Pass
3	5186.600	96.03	-2.39	--	--	Peak	271.00	100	Vertical	N/A
3**	5186.600	87.75	-2.39	--	--	AV	271.00	100	Vertical	N/A
4	7342.987	49.35	-3.31	74.0	24.65	Peak	193.00	100	Vertical	Pass
4**	7342.987	40.55	-3.31	54.0	13.45	AV	193.00	100	Vertical	Pass
5	11934.650	53.39	1.68	74.0	20.61	Peak	311.00	100	Vertical	Pass
5**	11934.650	43.95	1.68	54.0	10.05	AV	311.00	100	Vertical	Pass
6	16182.450	55.80	1.52	74.0	18.20	Peak	0.00	400	Vertical	Pass
6**	16182.450	46.89	1.52	54.0	7.11	AV	0.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.200	44.62	-16.90	74.0	29.38	Peak	349.00	300	Horizontal	Pass
1**	1500.200	42.20	-16.90	54.0	11.80	AV	349.00	300	Horizontal	Pass
2	4390.600	50.02	-3.33	74.0	23.98	Peak	14.00	200	Horizontal	Pass
2**	4390.600	41.39	-3.33	54.0	12.61	AV	14.00	200	Horizontal	Pass
3	5222.200	108.18	-2.70	--	--	Peak	248.00	150	Horizontal	N/A
3**	5222.200	100.29	-2.70	--	--	AV	248.00	150	Horizontal	N/A
4	7730.537	49.73	-2.49	74.0	24.27	Peak	322.00	200	Horizontal	Pass
4**	7730.537	39.53	-2.49	54.0	14.47	AV	322.00	200	Horizontal	Pass
5	12333.987	54.28	1.36	74.0	19.72	Peak	227.00	100	Horizontal	Pass
5**	12333.987	43.17	1.36	54.0	10.83	AV	227.00	100	Horizontal	Pass
6	15396.787	55.86	0.70	74.0	18.14	Peak	0.00	200	Horizontal	Pass
6**	15396.787	45.89	0.70	54.0	8.11	AV	0.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.100	41.71	-16.92	74.0	32.29	Peak	256.00	400	Vertical	Pass
1**	1500.100	38.56	-16.92	54.0	15.44	AV	256.00	400	Vertical	Pass
2	4379.000	50.04	-3.36	74.0	23.96	Peak	241.00	300	Vertical	Pass
2**	4379.000	41.70	-3.36	54.0	12.30	AV	241.00	300	Vertical	Pass
3	5223.800	97.47	-2.68	--	--	Peak	276.00	100	Vertical	N/A
3**	5223.800	90.32	-2.68	--	--	AV	276.00	100	Vertical	N/A
4	7345.288	49.70	-3.50	74.0	24.30	Peak	84.00	400	Vertical	Pass
4**	7345.288	40.38	-3.50	54.0	13.62	AV	84.00	400	Vertical	Pass
5	12329.388	53.51	1.42	74.0	20.49	Peak	263.00	150	Vertical	Pass
5**	12329.388	44.76	1.42	54.0	9.24	AV	263.00	150	Vertical	Pass
6	16077.450	55.59	1.59	74.0	18.41	Peak	53.00	400	Vertical	Pass
6**	16077.450	46.33	1.59	54.0	7.67	AV	53.00	400	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	1500.000	45.27	-16.94	74.0	28.73	Peak	321.00	300	Horizontal	Pass
1**	1500.000	42.20	-16.94	54.0	11.80	AV	321.00	300	Horizontal	Pass
2	4382.000	49.94	-3.64	74.0	24.06	Peak	61.00	400	Horizontal	Pass
2**	4382.000	40.84	-3.64	54.0	13.16	AV	61.00	400	Horizontal	Pass
3	5237.600	107.80	-2.54	--	--	Peak	255.00	100	Horizontal	N/A
3**	5237.600	100.30	-2.54	--	--	AV	255.00	100	Horizontal	N/A
4	7398.188	49.73	-4.08	74.0	24.27	Peak	269.00	300	Horizontal	Pass
4**	7398.188	39.30	-4.08	54.0	14.70	AV	269.00	300	Horizontal	Pass
5	12287.988	53.10	1.71	74.0	20.90	Peak	308.00	100	Horizontal	Pass
5**	12287.988	43.92	1.71	54.0	10.08	AV	308.00	100	Horizontal	Pass
6	15834.637	55.39	1.45	74.0	18.61	Peak	196.00	300	Horizontal	Pass
6**	15834.637	47.10	1.45	54.0	6.90	AV	196.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.700	42.06	-16.99	74.0	31.94	Peak	248.00	400	Vertical	Pass
1**	1499.700	37.13	-16.99	54.0	16.87	AV	248.00	400	Vertical	Pass
2	4389.600	50.57	-3.34	74.0	23.43	Peak	227.00	300	Vertical	Pass
2**	4389.600	41.66	-3.34	54.0	12.34	AV	227.00	300	Vertical	Pass
3	5236.800	97.78	-2.52	--	--	Peak	277.00	150	Vertical	N/A
3**	5236.800	89.98	-2.52	--	--	AV	277.00	150	Vertical	N/A
4	7514.337	49.54	-3.39	74.0	24.46	Peak	354.00	200	Vertical	Pass
4**	7514.337	39.74	-3.39	54.0	14.26	AV	354.00	200	Vertical	Pass
5	12314.724	53.67	1.40	74.0	20.33	Peak	82.00	150	Vertical	Pass
5**	12314.724	43.99	1.40	54.0	10.01	AV	82.00	150	Vertical	Pass
6	15618.076	55.52	1.58	74.0	18.48	Peak	332.00	300	Vertical	Pass
6**	15618.076	45.69	1.58	54.0	8.31	AV	332.00	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	1500.200	44.59	-16.90	74.0	29.41	Peak	344.00	400	Horizontal	Pass
1**	1500.200	42.25	-16.90	54.0	11.75	AV	344.00	400	Horizontal	Pass
2	4379.800	51.31	-3.28	74.0	22.69	Peak	74.00	300	Horizontal	Pass
2**	4379.800	41.59	-3.28	54.0	12.41	AV	74.00	300	Horizontal	Pass
3	5195.200	106.14	-2.38	--	--	Peak	255.00	150	Horizontal	N/A
3**	5195.200	98.55	-2.38	--	--	AV	255.00	150	Horizontal	N/A
4	7381.513	49.32	-3.39	74.0	24.68	Peak	304.00	400	Horizontal	Pass
4**	7381.513	40.32	-3.39	54.0	13.68	AV	304.00	400	Horizontal	Pass
5	12317.025	53.34	1.41	74.0	20.66	Peak	280.00	100	Horizontal	Pass
5**	12317.025	44.16	1.41	54.0	9.84	AV	280.00	100	Horizontal	Pass
6	15803.400	56.40	2.29	74.0	17.60	Peak	244.00	300	Horizontal	Pass
6**	15803.400	46.42	2.29	54.0	7.58	AV	244.00	300	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	1499.800	42.46	-16.97	74.0	31.54	Peak	248.00	400	Vertical	Pass
1**	1499.800	37.39	-16.97	54.0	16.61	AV	248.00	400	Vertical	Pass
2	4398.600	50.38	-4.58	74.0	23.62	Peak	191.00	200	Vertical	Pass
2**	4398.600	40.16	-4.58	54.0	13.84	AV	191.00	200	Vertical	Pass
3	5197.200	94.31	-2.34	--	--	Peak	280.00	200	Vertical	N/A
3**	5197.200	86.31	-2.34	--	--	AV	280.00	200	Vertical	N/A
4	7335.513	49.29	-3.28	74.0	24.71	Peak	282.00	400	Vertical	Pass
4**	7335.513	40.41	-3.28	54.0	13.59	AV	282.00	400	Vertical	Pass
5	11512.025	52.69	-0.27	74.0	21.31	Peak	60.00	200	Vertical	Pass
5**	11512.025	43.42	-0.27	54.0	10.58	AV	60.00	200	Vertical	Pass
6	15791.849	56.29	2.07	74.0	17.71	Peak	0.00	400	Vertical	Pass
6**	15791.849	47.57	2.07	54.0	6.43	AV	0.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.100	45.17	-16.92	74.0	28.83	Peak	326.00	300	Horizontal	Pass
1**	1500.100	42.20	-16.92	54.0	11.80	AV	326.00	300	Horizontal	Pass
2	4393.400	50.47	-3.70	74.0	23.53	Peak	203.00	100	Horizontal	Pass
2**	4393.400	41.63	-3.70	54.0	12.37	AV	203.00	100	Horizontal	Pass
3	5226.200	105.92	-2.64	--	--	Peak	256.00	100	Horizontal	N/A
3**	5226.200	98.44	-2.64	--	--	AV	256.00	100	Horizontal	N/A
4	7669.587	49.84	-2.67	74.0	24.16	Peak	88.00	100	Horizontal	Pass
4**	7669.587	40.21	-2.67	54.0	13.79	AV	88.00	100	Horizontal	Pass
5	12054.250	52.78	1.03	74.0	21.22	Peak	224.00	150	Horizontal	Pass
5**	12054.250	42.95	1.03	54.0	11.05	AV	224.00	150	Horizontal	Pass
6	15808.125	55.95	2.20	74.0	18.05	Peak	360.00	100	Horizontal	Pass
6**	15808.125	46.69	2.20	54.0	7.31	AV	360.00	100	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	1499.700	42.05	-16.99	74.0	31.95	Peak	251.00	300	Vertical	Pass
1**	1499.700	36.57	-16.99	54.0	17.43	AV	251.00	300	Vertical	Pass
2	4379.800	50.94	-3.28	74.0	23.06	Peak	120.00	400	Vertical	Pass
2**	4379.800	41.36	-3.28	54.0	12.64	AV	120.00	400	Vertical	Pass
3	5235.000	95.40	-2.67	--	--	Peak	276.00	100	Vertical	N/A
3**	5235.000	87.19	-2.67	--	--	AV	276.00	100	Vertical	N/A
4	7381.225	49.20	-3.41	74.0	24.80	Peak	140.00	200	Vertical	Pass
4**	7381.225	40.36	-3.41	54.0	13.64	AV	140.00	200	Vertical	Pass
5	12331.688	53.29	1.39	74.0	20.71	Peak	282.00	150	Vertical	Pass
5**	12331.688	42.80	1.39	54.0	11.20	AV	282.00	150	Vertical	Pass
6	16067.213	55.58	1.23	74.0	18.42	Peak	130.00	300	Vertical	Pass
6**	16067.213	45.64	1.23	54.0	8.36	AV	130.00	300	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	1500.000	45.03	-16.94	74.0	28.97	Peak	337.00	100	Horizontal	Pass
1**	1500.000	41.97	-16.94	54.0	12.03	AV	337.00	100	Horizontal	Pass
2	4382.400	50.41	-3.64	74.0	23.59	Peak	360.00	400	Horizontal	Pass
2**	4382.400	41.61	-3.64	54.0	12.39	AV	360.00	400	Horizontal	Pass
3	5176.600	107.89	-2.52	--	--	Peak	241.00	200	Horizontal	N/A
3**	5176.600	100.11	-2.52	--	--	AV	241.00	200	Horizontal	N/A
4	7672.462	49.44	-2.39	74.0	24.56	Peak	86.00	200	Horizontal	Pass
4**	7672.462	40.18	-2.39	54.0	13.82	AV	86.00	200	Horizontal	Pass
5	12497.575	53.38	1.65	74.0	20.62	Peak	163.00	100	Horizontal	Pass
5**	12497.575	44.21	1.65	54.0	9.79	AV	163.00	100	Horizontal	Pass
6	15847.500	56.27	1.35	74.0	17.73	Peak	83.00	100	Horizontal	Pass
6**	15847.500	47.22	1.35	54.0	6.78	AV	83.00	100	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	1499.800	42.86	-16.97	74.0	31.14	Peak	245.00	100	Vertical	Pass
1**	1499.800	37.94	-16.97	54.0	16.06	AV	245.00	100	Vertical	Pass
2	4384.600	50.76	-3.54	74.0	23.24	Peak	168.00	200	Vertical	Pass
2**	4384.600	41.94	-3.54	54.0	12.06	AV	168.00	200	Vertical	Pass
3	5185.400	95.51	-2.43	--	--	Peak	272.00	150	Vertical	N/A
3**	5185.400	87.85	-2.43	--	--	AV	272.00	150	Vertical	N/A
4	7615.250	49.58	-2.74	74.0	24.42	Peak	86.00	400	Vertical	Pass
4**	7615.250	39.86	-2.74	54.0	14.14	AV	86.00	400	Vertical	Pass
5	12283.675	52.99	1.78	74.0	21.01	Peak	155.00	100	Vertical	Pass
5**	12283.675	44.02	1.78	54.0	9.98	AV	155.00	100	Vertical	Pass
6	15845.401	55.53	1.37	74.0	18.47	Peak	154.00	100	Vertical	Pass
6**	15845.401	46.30	1.37	54.0	7.70	AV	154.00	100	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	1500.000	44.99	-16.94	74.0	29.01	Peak	322.00	300	Horizontal	Pass
1**	1500.000	41.84	-16.94	54.0	12.16	AV	322.00	300	Horizontal	Pass
2	4285.200	51.42	-4.24	74.0	22.58	Peak	84.00	400	Horizontal	Pass
2**	4285.200	41.43	-4.24	54.0	12.57	AV	84.00	400	Horizontal	Pass
3	5221.400	107.76	-2.68	--	--	Peak	252.00	150	Horizontal	N/A
3**	5221.400	100.30	-2.68	--	--	AV	252.00	150	Horizontal	N/A
4	7437.575	50.81	-3.41	74.0	23.19	Peak	185.00	200	Horizontal	Pass
4**	7437.575	40.86	-3.41	54.0	13.14	AV	185.00	200	Horizontal	Pass
5	12620.625	52.85	1.77	74.0	21.15	Peak	20.00	100	Horizontal	Pass
5**	12620.625	43.56	1.77	54.0	10.44	AV	20.00	100	Horizontal	Pass
6	15788.963	56.02	1.97	74.0	17.98	Peak	360.00	400	Horizontal	Pass
6**	15788.963	46.02	1.97	54.0	7.98	AV	360.00	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	1499.900	42.64	-16.96	74.0	31.36	Peak	246.00	300	Vertical	Pass
1**	1499.900	37.94	-16.96	54.0	16.06	AV	246.00	300	Vertical	Pass
2	4384.800	50.49	-3.50	74.0	23.51	Peak	224.00	200	Vertical	Pass
2**	4384.800	42.13	-3.50	54.0	11.87	AV	224.00	200	Vertical	Pass
3	5218.400	96.99	-2.82	--	--	Peak	275.00	100	Vertical	N/A
3**	5218.400	88.88	-2.82	--	--	AV	275.00	100	Vertical	N/A
4	7549.700	49.13	-2.76	74.0	24.87	Peak	96.00	300	Vertical	Pass
4**	7549.700	39.71	-2.76	54.0	14.29	AV	96.00	300	Vertical	Pass
5	12604.237	53.28	1.91	74.0	20.72	Peak	172.00	100	Vertical	Pass
5**	12604.237	43.19	1.91	54.0	10.81	AV	172.00	100	Vertical	Pass
6	15800.776	55.95	2.32	74.0	18.05	Peak	158.00	300	Vertical	Pass
6**	15800.776	46.95	2.32	54.0	7.05	AV	158.00	300	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	1500.200	44.95	-16.90	74.0	29.05	Peak	314.00	100	Horizontal	Pass
1**	1500.200	42.57	-16.90	54.0	11.43	AV	314.00	100	Horizontal	Pass
2	4384.400	50.85	-3.57	74.0	23.15	Peak	10.00	400	Horizontal	Pass
2**	4384.400	41.55	-3.57	54.0	12.45	AV	10.00	400	Horizontal	Pass
3	5243.200	107.95	-2.39	--	--	Peak	274.00	200	Horizontal	N/A
3**	5243.200	101.35	-2.39	--	--	AV	274.00	200	Horizontal	N/A
4	7338.387	51.23	-2.90	74.0	22.77	Peak	147.00	200	Horizontal	Pass
4**	7338.387	42.09	-2.90	54.0	11.91	AV	147.00	200	Horizontal	Pass
5	12239.974	53.35	1.06	74.0	20.65	Peak	0.00	150	Horizontal	Pass
5**	12239.974	42.99	1.06	54.0	11.01	AV	0.00	150	Horizontal	Pass
6	15617.287	56.33	1.55	74.0	17.67	Peak	99.00	100	Horizontal	Pass
6**	15617.287	47.06	1.55	54.0	6.94	AV	99.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.400	42.63	-16.86	74.0	31.37	Peak	246.00	200	Vertical	Pass
1**	1500.400	37.67	-16.86	54.0	16.33	AV	246.00	200	Vertical	Pass
2	4387.600	51.13	-3.37	74.0	22.87	Peak	194.00	400	Vertical	Pass
2**	4387.600	40.95	-3.37	54.0	13.05	AV	194.00	400	Vertical	Pass
3	5234.600	97.25	-2.74	--	--	Peak	288.00	200	Vertical	N/A
3**	5234.600	89.21	-2.74	--	--	AV	288.00	200	Vertical	N/A
4	7675.625	49.43	-2.51	74.0	24.57	Peak	236.00	200	Vertical	Pass
4**	7675.625	40.55	-2.51	54.0	13.45	AV	236.00	200	Vertical	Pass
5	11611.787	52.91	-0.07	74.0	21.09	Peak	66.00	200	Vertical	Pass
5**	11611.787	42.79	-0.07	54.0	11.21	AV	66.00	200	Vertical	Pass
6	16149.638	55.47	1.00	74.0	18.53	Peak	99.00	400	Vertical	Pass
6**	16149.638	46.04	1.00	54.0	7.96	AV	99.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.100	44.74	-16.92	74.0	29.26	Peak	319.00	100	Horizontal	Pass
1**	1500.100	41.90	-16.92	54.0	12.10	AV	319.00	100	Horizontal	Pass
2	4382.800	50.93	-3.64	74.0	23.07	Peak	225.00	400	Horizontal	Pass
2**	4382.800	41.40	-3.64	54.0	12.60	AV	225.00	400	Horizontal	Pass
3	5188.000	106.12	-2.35	--	--	Peak	264.00	200	Horizontal	N/A
3**	5188.000	99.21	-2.35	--	--	AV	264.00	200	Horizontal	N/A
4	7685.975	49.47	-1.99	74.0	24.53	Peak	142.00	400	Horizontal	Pass
4**	7685.975	40.61	-1.99	54.0	13.39	AV	142.00	400	Horizontal	Pass
5	11877.151	52.80	1.33	74.0	21.20	Peak	207.00	200	Horizontal	Pass
5**	11877.151	43.05	1.33	54.0	10.95	AV	207.00	200	Horizontal	Pass
6	15678.713	55.75	1.57	74.0	18.25	Peak	136.00	100	Horizontal	Pass
6**	15678.713	46.76	1.57	54.0	7.24	AV	136.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.000	42.35	-16.94	74.0	31.65	Peak	241.00	200	Vertical	Pass
1**	1500.000	38.19	-16.94	54.0	15.81	AV	241.00	200	Vertical	Pass
2	4379.400	50.92	-3.32	74.0	23.08	Peak	181.00	200	Vertical	Pass
2**	4379.400	41.69	-3.32	54.0	12.31	AV	181.00	200	Vertical	Pass
3	5195.200	94.45	-2.38	--	--	Peak	291.00	100	Vertical	N/A
3**	5195.200	85.74	-2.38	--	--	AV	291.00	100	Vertical	N/A
4	7350.462	49.35	-3.61	74.0	24.65	Peak	287.00	300	Vertical	Pass
4**	7350.462	41.38	-3.61	54.0	12.62	AV	287.00	300	Vertical	Pass
5	12401.838	53.68	1.54	74.0	20.32	Peak	249.00	100	Vertical	Pass
5**	12401.838	43.08	1.54	54.0	10.92	AV	249.00	100	Vertical	Pass
6	15515.175	55.72	1.40	74.0	18.28	Peak	44.00	300	Vertical	Pass
6**	15515.175	46.43	1.40	54.0	7.57	AV	44.00	300	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	1499.900	44.89	-16.96	74.0	29.11	Peak	317.00	400	Horizontal	Pass
1**	1499.900	41.76	-16.96	54.0	12.24	AV	317.00	400	Horizontal	Pass
2	4344.600	49.75	-3.98	74.0	24.25	Peak	10.00	100	Horizontal	Pass
2**	4344.600	40.06	-3.98	54.0	13.94	AV	10.00	100	Horizontal	Pass
3	5226.400	106.04	-2.67	--	--	Peak	263.00	150	Horizontal	N/A
3**	5226.400	98.07	-2.67	--	--	AV	263.00	150	Horizontal	N/A
4	7402.788	49.77	-3.76	74.0	24.23	Peak	360.00	300	Horizontal	Pass
4**	7402.788	40.04	-3.76	54.0	13.96	AV	360.00	300	Horizontal	Pass
5	12611.713	53.42	1.89	74.0	20.58	Peak	77.00	100	Horizontal	Pass
5**	12611.713	43.21	1.89	54.0	10.79	AV	77.00	100	Horizontal	Pass
6	15803.138	56.51	2.29	74.0	17.49	Peak	225.00	400	Horizontal	Pass
6**	15803.138	46.98	2.29	54.0	7.02	AV	225.00	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	1500.100	43.15	-16.92	74.0	30.85	Peak	239.00	400	Vertical	Pass
1**	1500.100	38.46	-16.92	54.0	15.54	AV	239.00	400	Vertical	Pass
2	4383.800	51.08	-3.64	74.0	22.92	Peak	297.00	300	Vertical	Pass
2**	4383.800	41.46	-3.64	54.0	12.54	AV	297.00	300	Vertical	Pass
3	5226.600	95.60	-2.70	--	--	Peak	283.00	100	Vertical	N/A
3**	5226.600	87.31	-2.70	--	--	AV	283.00	100	Vertical	N/A
4	7333.500	49.46	-3.12	74.0	24.54	Peak	98.00	300	Vertical	Pass
4**	7333.500	40.55	-3.12	54.0	13.45	AV	98.00	300	Vertical	Pass
5	11041.388	53.40	-0.54	74.0	20.60	Peak	219.00	100	Vertical	Pass
5**	11041.388	44.43	-0.54	54.0	9.57	AV	219.00	100	Vertical	Pass
6	15813.375	55.59	2.09	74.0	18.41	Peak	313.00	300	Vertical	Pass
6**	15813.375	47.04	2.09	54.0	6.96	AV	313.00	300	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	1500.200	44.90	-16.90	74.0	29.10	Peak	352.00	300	Horizontal	Pass
1**	1500.200	42.08	-16.90	54.0	11.92	AV	352.00	300	Horizontal	Pass
2	4390.600	50.35	-3.33	74.0	23.65	Peak	333.00	100	Horizontal	Pass
2**	4390.600	41.21	-3.33	54.0	12.79	AV	333.00	100	Horizontal	Pass
3	5201.600	102.97	-2.14	--	--	Peak	247.00	200	Horizontal	N/A
3**	5201.600	94.56	-2.14	--	--	AV	247.00	200	Horizontal	N/A
4	7448.212	50.19	-3.27	74.0	23.81	Peak	121.00	100	Horizontal	Pass
4**	7448.212	39.85	-3.27	54.0	14.15	AV	121.00	100	Horizontal	Pass
5	12271.313	53.16	1.49	74.0	20.84	Peak	147.00	100	Horizontal	Pass
5**	12271.313	43.85	1.49	54.0	10.15	AV	147.00	100	Horizontal	Pass
6	16107.638	55.49	0.87	74.0	18.51	Peak	56.00	200	Horizontal	Pass
6**	16107.638	46.46	0.87	54.0	7.54	AV	56.00	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	1500.000	42.75	-16.94	74.0	31.25	Peak	251.00	100	Vertical	Pass
1**	1500.000	38.57	-16.94	54.0	15.43	AV	251.00	100	Vertical	Pass
2	4392.000	50.18	-3.50	74.0	23.82	Peak	234.00	400	Vertical	Pass
2**	4392.000	42.74	-3.50	54.0	11.26	AV	234.00	400	Vertical	Pass
3	5224.600	92.38	-2.61	--	--	Peak	266.00	200	Vertical	N/A
3**	5224.600	84.30	-2.61	--	--	AV	266.00	200	Vertical	N/A
4	7444.763	49.73	-3.20	74.0	24.27	Peak	21.00	300	Vertical	Pass
4**	7444.763	40.26	-3.20	54.0	13.74	AV	21.00	300	Vertical	Pass
5	12322.201	53.17	1.42	74.0	20.83	Peak	360.00	100	Vertical	Pass
5**	12322.201	43.84	1.42	54.0	10.16	AV	360.00	100	Vertical	Pass
6	15671.888	56.09	1.47	74.0	17.91	Peak	0.00	100	Vertical	Pass
6**	15671.888	46.19	1.47	54.0	7.81	AV	0.00	100	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	1500.300	45.10	-16.88	74.0	28.90	Peak	322.00	100	Horizontal	Pass
1**	1500.300	41.92	-16.88	54.0	12.08	AV	322.00	100	Horizontal	Pass
2	4392.400	50.81	-3.55	74.0	23.19	Peak	132.00	400	Horizontal	Pass
2**	4392.400	40.78	-3.55	54.0	13.22	AV	132.00	400	Horizontal	Pass
3	5750.200	107.85	-2.34	--	--	Peak	258.00	200	Horizontal	N/A
3**	5750.200	99.59	-2.34	--	--	AV	258.00	200	Horizontal	N/A
4	7688.275	49.97	-2.26	74.0	24.03	Peak	360.00	300	Horizontal	Pass
4**	7688.275	40.42	-2.26	54.0	13.58	AV	360.00	300	Horizontal	Pass
5	12280.800	52.97	1.80	74.0	21.03	Peak	43.00	200	Horizontal	Pass
5**	12280.800	43.85	1.80	54.0	10.15	AV	43.00	200	Horizontal	Pass
6	15858.000	56.07	1.03	74.0	17.93	Peak	108.00	300	Horizontal	Pass
6**	15858.000	46.90	1.03	54.0	7.10	AV	108.00	300	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	1500.000	42.33	-16.94	74.0	31.67	Peak	247.00	100	Vertical	Pass
1**	1500.000	39.08	-16.94	54.0	14.92	AV	247.00	100	Vertical	Pass
2	4370.000	50.24	-4.04	74.0	23.76	Peak	217.00	400	Vertical	Pass
2**	4370.000	40.90	-4.04	54.0	13.10	AV	217.00	400	Vertical	Pass
3	5747.000	100.63	-2.21	--	--	Peak	34.00	150	Vertical	N/A
3**	5747.000	92.93	-2.21	--	--	AV	34.00	150	Vertical	N/A
4	7322.575	49.67	-3.31	74.0	24.33	Peak	102.00	200	Vertical	Pass
4**	7322.575	40.44	-3.31	54.0	13.56	AV	102.00	200	Vertical	Pass
5	12294.313	53.60	1.59	74.0	20.40	Peak	0.00	100	Vertical	Pass
5**	12294.313	43.99	1.59	54.0	10.01	AV	0.00	100	Vertical	Pass
6	15786.863	55.87	1.88	74.0	18.13	Peak	316.00	300	Vertical	Pass
6**	15786.863	45.73	1.88	54.0	8.27	AV	316.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.800	45.18	-16.97	74.0	28.82	Peak	345.00	400	Horizontal	Pass
1**	1499.800	41.32	-16.97	54.0	12.68	AV	345.00	400	Horizontal	Pass
2	4388.800	49.97	-3.38	74.0	24.03	Peak	136.00	300	Horizontal	Pass
2**	4388.800	41.68	-3.38	54.0	12.32	AV	136.00	300	Horizontal	Pass
3	5782.400	107.29	-1.35	--	--	Peak	287.00	100	Horizontal	N/A
3**	5782.400	100.05	-1.35	--	--	AV	287.00	100	Horizontal	N/A
4	7713.575	50.45	-2.35	74.0	23.55	Peak	70.00	200	Horizontal	Pass
4**	7713.575	44.41	-2.35	54.0	9.59	AV	70.00	200	Horizontal	Pass
5	12586.988	53.21	1.63	74.0	20.79	Peak	272.00	150	Horizontal	Pass
5**	12586.988	42.80	1.63	54.0	11.20	AV	272.00	150	Horizontal	Pass
6	16199.250	55.93	1.58	74.0	18.07	Peak	61.00	200	Horizontal	Pass
6**	16199.250	46.63	1.58	54.0	7.37	AV	61.00	200	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	1500.000	42.11	-16.94	74.0	31.89	Peak	254.00	400	Vertical	Pass
1**	1500.000	38.93	-16.94	54.0	15.07	AV	254.00	400	Vertical	Pass
2	4321.800	50.37	-4.15	74.0	23.63	Peak	288.00	400	Vertical	Pass
2**	4321.800	40.11	-4.15	54.0	13.89	AV	288.00	400	Vertical	Pass
3	5783.000	101.14	-1.43	--	--	Peak	27.00	100	Vertical	N/A
3**	5783.000	94.28	-1.43	--	--	AV	27.00	100	Vertical	N/A
4	7340.975	49.91	-3.07	74.0	24.09	Peak	333.00	300	Vertical	Pass
4**	7340.975	40.97	-3.07	54.0	13.03	AV	333.00	300	Vertical	Pass
5	12693.650	52.74	0.83	74.0	21.26	Peak	191.00	100	Vertical	Pass
5**	12693.650	43.25	0.83	54.0	10.75	AV	191.00	100	Vertical	Pass
6	16093.200	56.14	1.36	74.0	17.86	Peak	83.00	200	Vertical	Pass
6**	16093.200	46.50	1.36	54.0	7.50	AV	83.00	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	1500.000	44.71	-16.94	74.0	29.29	Peak	322.00	100	Horizontal	Pass
1**	1500.000	42.16	-16.94	54.0	11.84	AV	322.00	100	Horizontal	Pass
2	4385.000	50.73	-3.47	74.0	23.27	Peak	186.00	200	Horizontal	Pass
2**	4385.000	41.37	-3.47	54.0	12.63	AV	186.00	200	Horizontal	Pass
3	5828.000	107.53	-1.89	--	--	Peak	284.00	150	Horizontal	N/A
3**	5828.000	100.40	-1.89	--	--	AV	284.00	150	Horizontal	N/A
4	7392.150	49.42	-3.84	74.0	24.58	Peak	21.00	100	Horizontal	Pass
4**	7392.150	40.46	-3.84	54.0	13.54	AV	21.00	100	Horizontal	Pass
5	12398.099	52.64	1.59	74.0	21.36	Peak	93.00	200	Horizontal	Pass
5**	12398.099	43.18	1.59	54.0	10.82	AV	93.00	200	Horizontal	Pass
6	16070.625	55.96	1.37	74.0	18.04	Peak	121.00	300	Horizontal	Pass
6**	16070.625	46.51	1.37	54.0	7.49	AV	121.00	300	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	1499.900	41.95	-16.96	74.0	32.05	Peak	243.00	200	Vertical	Pass
1**	1499.900	37.78	-16.96	54.0	16.22	AV	243.00	200	Vertical	Pass
2	4387.800	51.11	-3.38	74.0	22.89	Peak	208.00	200	Vertical	Pass
2**	4387.800	41.49	-3.38	54.0	12.51	AV	208.00	200	Vertical	Pass
3	5827.000	101.12	-1.98	--	--	Peak	28.00	100	Vertical	N/A
3**	5827.000	92.99	-1.98	--	--	AV	28.00	100	Vertical	N/A
4	7341.837	49.59	-3.15	74.0	24.41	Peak	272.00	100	Vertical	Pass
4**	7341.837	40.84	-3.15	54.0	13.16	AV	272.00	100	Vertical	Pass
5	11939.826	53.07	1.69	74.0	20.93	Peak	190.00	200	Vertical	Pass
5**	11939.826	43.46	1.69	54.0	10.54	AV	190.00	200	Vertical	Pass
6	15498.375	56.23	1.12	74.0	17.77	Peak	0.00	400	Vertical	Pass
6**	15498.375	46.41	1.12	54.0	7.59	AV	0.00	400	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	1500.100	45.43	-16.92	74.0	28.57	Peak	318.00	300	Horizontal	Pass
1**	1500.100	42.94	-16.92	54.0	11.06	AV	318.00	300	Horizontal	Pass
2	4389.200	50.32	-3.36	74.0	23.68	Peak	0.00	400	Horizontal	Pass
2**	4389.200	40.92	-3.36	54.0	13.08	AV	0.00	400	Horizontal	Pass
3	5743.800	106.10	-2.07	--	--	Peak	265.00	200	Horizontal	N/A
3**	5743.800	98.63	-2.07	--	--	AV	265.00	200	Horizontal	N/A
4	7451.087	49.42	-3.18	74.0	24.58	Peak	354.00	400	Horizontal	Pass
4**	7451.087	40.11	-3.18	54.0	13.89	AV	354.00	400	Horizontal	Pass
5	12280.513	52.72	1.80	74.0	21.28	Peak	53.00	200	Horizontal	Pass
5**	12280.513	43.66	1.80	54.0	10.34	AV	53.00	200	Horizontal	Pass
6	15673.463	56.06	1.50	74.0	17.94	Peak	157.00	400	Horizontal	Pass
6**	15673.463	46.39	1.50	54.0	7.61	AV	157.00	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	1499.900	41.71	-16.96	74.0	32.29	Peak	217.00	400	Vertical	Pass
1**	1499.900	36.78	-16.96	54.0	17.22	AV	217.00	400	Vertical	Pass
2	4284.800	49.98	-4.20	74.0	24.02	Peak	360.00	300	Vertical	Pass
2**	4284.800	40.91	-4.20	54.0	13.09	AV	360.00	300	Vertical	Pass
3	5741.800	99.15	-2.26	--	--	Peak	275.00	100	Vertical	N/A
3**	5741.800	91.37	-2.26	--	--	AV	275.00	100	Vertical	N/A
4	7671.600	49.70	-2.48	74.0	24.30	Peak	32.00	300	Vertical	Pass
4**	7671.600	40.19	-2.48	54.0	13.81	AV	32.00	300	Vertical	Pass
5	10931.276	53.00	0.06	74.0	21.00	Peak	360.00	100	Vertical	Pass
5**	10931.276	42.95	0.06	54.0	11.05	AV	360.00	100	Vertical	Pass
6	16091.099	55.89	1.41	74.0	18.11	Peak	194.00	200	Vertical	Pass
6**	16091.099	46.08	1.41	54.0	7.92	AV	194.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1499.900	44.75	-16.96	74.0	29.25	Peak	290.00	300	Horizontal	Pass
1**	1499.900	42.33	-16.96	54.0	11.67	AV	290.00	300	Horizontal	Pass
2	4391.000	50.08	-3.38	74.0	23.92	Peak	74.00	400	Horizontal	Pass
2**	4391.000	41.27	-3.38	54.0	12.73	AV	74.00	400	Horizontal	Pass
3	5782.200	106.87	-1.33	--	--	Peak	266.00	150	Horizontal	N/A
3**	5782.200	99.28	-1.33	--	--	AV	266.00	150	Horizontal	N/A
4	7338.387	49.36	-2.90	74.0	24.64	Peak	360.00	400	Horizontal	Pass
4**	7338.387	41.11	-2.90	54.0	12.89	AV	360.00	400	Horizontal	Pass
5	12271.313	53.13	1.49	74.0	20.87	Peak	233.00	150	Horizontal	Pass
5**	12271.313	44.46	1.49	54.0	9.54	AV	233.00	150	Horizontal	Pass
6	15667.425	55.58	1.38	74.0	18.42	Peak	339.00	400	Horizontal	Pass
6**	15667.425	46.41	1.38	54.0	7.59	AV	339.00	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	1499.900	41.96	-16.96	74.0	32.04	Peak	216.00	100	Vertical	Pass
1**	1499.900	37.16	-16.96	54.0	16.84	AV	216.00	100	Vertical	Pass
2	4390.200	50.42	-3.31	74.0	23.58	Peak	341.00	300	Vertical	Pass
2**	4390.200	41.63	-3.31	54.0	12.37	AV	341.00	300	Vertical	Pass
3	5782.600	100.31	-1.38	--	--	Peak	10.00	100	Vertical	N/A
3**	5782.600	93.36	-1.38	--	--	AV	10.00	100	Vertical	N/A
4	7392.725	49.56	-3.81	74.0	24.44	Peak	212.00	200	Vertical	Pass
4**	7392.725	40.01	-3.81	54.0	13.99	AV	212.00	200	Vertical	Pass
5	12281.950	52.65	1.79	74.0	21.35	Peak	160.00	100	Vertical	Pass
5**	12281.950	44.05	1.79	54.0	9.95	AV	160.00	100	Vertical	Pass
6	16077.712	55.18	1.59	74.0	18.82	Peak	360.00	200	Vertical	Pass
6**	16077.712	45.24	1.59	54.0	8.76	AV	360.00	200	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	1500.100	44.88	-16.92	74.0	29.12	Peak	318.00	300	Horizontal	Pass
1**	1500.100	42.85	-16.92	54.0	11.15	AV	318.00	300	Horizontal	Pass
2	4386.200	50.78	-3.27	74.0	23.22	Peak	190.00	300	Horizontal	Pass
2**	4386.200	42.28	-3.27	54.0	11.72	AV	190.00	300	Horizontal	Pass
3	5826.800	106.41	-2.00	--	--	Peak	265.00	200	Horizontal	N/A
3**	5826.800	98.81	-2.00	--	--	AV	265.00	200	Horizontal	N/A
4	7354.775	50.03	-3.76	74.0	23.97	Peak	32.00	100	Horizontal	Pass
4**	7354.775	39.76	-3.76	54.0	14.24	AV	32.00	100	Horizontal	Pass
5	11935.799	53.16	1.69	74.0	20.84	Peak	68.00	200	Horizontal	Pass
5**	11935.799	43.55	1.69	54.0	10.45	AV	68.00	200	Horizontal	Pass
6	15803.138	56.29	2.29	74.0	17.71	Peak	315.00	200	Horizontal	Pass
6**	15803.138	45.96	2.29	54.0	8.04	AV	315.00	200	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	1500.100	43.32	-16.92	74.0	30.68	Peak	250.00	200	Vertical	Pass
1**	1500.100	39.23	-16.92	54.0	14.77	AV	250.00	200	Vertical	Pass
2	4210.800	49.78	-4.45	74.0	24.22	Peak	212.00	300	Vertical	Pass
2**	4210.800	40.20	-4.45	54.0	13.80	AV	212.00	300	Vertical	Pass
3	5826.600	95.07	-2.01	--	--	Peak	29.00	100	Vertical	N/A
3**	5826.600	92.09	-2.01	--	--	AV	29.00	100	Vertical	N/A
4	7345.288	49.70	-3.50	74.0	24.30	Peak	272.00	100	Vertical	Pass
4**	7345.288	39.86	-3.50	54.0	14.14	AV	272.00	100	Vertical	Pass
5	12295.750	52.78	1.56	74.0	21.22	Peak	89.00	100	Vertical	Pass
5**	12295.750	43.79	1.56	54.0	10.21	AV	89.00	100	Vertical	Pass
6	15802.350	56.04	2.30	74.0	17.96	Peak	0.00	300	Vertical	Pass
6**	15802.350	47.35	2.30	54.0	6.65	AV	0.00	300	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	1499.900	45.41	-16.96	74.0	28.59	Peak	324.00	100	Horizontal	Pass
1**	1499.900	42.36	-16.96	54.0	11.64	AV	324.00	100	Horizontal	Pass
2	4380.000	50.15	-3.32	74.0	23.85	Peak	330.00	200	Horizontal	Pass
2**	4380.000	41.20	-3.32	54.0	12.80	AV	330.00	200	Horizontal	Pass
3	5751.000	103.89	-2.21	--	--	Peak	264.00	200	Horizontal	N/A
3**	5751.000	96.43	-2.21	--	--	AV	264.00	200	Horizontal	N/A
4	7633.362	49.53	-2.91	74.0	24.47	Peak	351.00	200	Horizontal	Pass
4**	7633.362	39.86	-2.91	54.0	14.14	AV	351.00	200	Horizontal	Pass
5	12449.275	53.38	1.88	74.0	20.62	Peak	302.00	200	Horizontal	Pass
5**	12449.275	43.44	1.88	54.0	10.56	AV	302.00	200	Horizontal	Pass
6	16079.287	55.70	1.63	74.0	18.30	Peak	209.00	100	Horizontal	Pass
6**	16079.287	46.38	1.63	54.0	7.62	AV	209.00	100	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	1499.900	41.32	-16.96	74.0	32.68	Peak	212.00	300	Vertical	Pass
1**	1499.900	36.22	-16.96	54.0	17.78	AV	212.00	300	Vertical	Pass
2	4385.400	50.02	-3.40	74.0	23.98	Peak	360.00	400	Vertical	Pass
2**	4385.400	42.09	-3.40	54.0	11.91	AV	360.00	400	Vertical	Pass
3	5762.400	97.61	-1.68	--	--	Peak	6.00	150	Vertical	N/A
3**	5762.400	89.77	-1.68	--	--	AV	6.00	150	Vertical	N/A
4	7672.750	49.64	-2.36	74.0	24.36	Peak	322.00	300	Vertical	Pass
4**	7672.750	41.14	-2.36	54.0	12.86	AV	322.00	300	Vertical	Pass
5	12316.450	53.14	1.41	74.0	20.86	Peak	0.00	100	Vertical	Pass
5**	12316.450	43.48	1.41	54.0	10.52	AV	0.00	100	Vertical	Pass
6	16095.563	55.76	1.31	74.0	18.24	Peak	307.00	400	Vertical	Pass
6**	16095.563	46.14	1.31	54.0	7.86	AV	307.00	400	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	1500.000	44.87	-16.94	74.0	29.13	Peak	327.00	400	Horizontal	Pass
1**	1500.000	42.67	-16.94	54.0	11.33	AV	327.00	400	Horizontal	Pass
2	4389.400	50.32	-3.35	74.0	23.68	Peak	24.00	100	Horizontal	Pass
2**	4389.400	40.93	-3.35	54.0	13.07	AV	24.00	100	Horizontal	Pass
3	5798.800	103.83	-1.65	--	--	Peak	268.00	150	Horizontal	N/A
3**	5798.800	96.01	-1.65	--	--	AV	268.00	150	Horizontal	N/A
4	7450.225	49.53	-3.20	74.0	24.47	Peak	270.00	200	Horizontal	Pass
4**	7450.225	41.12	-3.20	54.0	12.88	AV	270.00	200	Horizontal	Pass
5	12285.112	53.19	1.77	74.0	20.81	Peak	49.00	100	Horizontal	Pass
5**	12285.112	43.86	1.77	54.0	10.14	AV	49.00	100	Horizontal	Pass
6	15672.937	55.73	1.49	74.0	18.27	Peak	360.00	100	Horizontal	Pass
6**	15672.937	46.15	1.49	54.0	7.85	AV	360.00	100	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	1500.500	41.61	-16.85	74.0	32.39	Peak	192.00	300	Vertical	Pass
1**	1500.500	35.71	-16.85	54.0	18.29	AV	192.00	300	Vertical	Pass
2	4273.000	49.72	-4.96	74.0	24.28	Peak	340.00	400	Vertical	Pass
2**	4273.000	39.47	-4.96	54.0	14.53	AV	340.00	400	Vertical	Pass
3	5796.800	98.04	-1.71	--	--	Peak	7.00	200	Vertical	N/A
3**	5796.800	89.96	-1.71	--	--	AV	7.00	200	Vertical	N/A
4	7282.325	49.78	-3.41	74.0	24.22	Peak	219.00	400	Vertical	Pass
4**	7282.325	40.23	-3.41	54.0	13.77	AV	219.00	400	Vertical	Pass
5	12440.937	53.17	1.78	74.0	20.83	Peak	186.00	150	Vertical	Pass
5**	12440.937	43.91	1.78	54.0	10.09	AV	186.00	150	Vertical	Pass
6	15611.250	56.46	1.32	74.0	17.54	Peak	88.00	200	Vertical	Pass
6**	15611.250	45.42	1.32	54.0	8.58	AV	88.00	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	1499.800	45.01	-16.97	74.0	28.99	Peak	327.00	200	Horizontal	Pass
1**	1499.800	41.77	-16.97	54.0	12.23	AV	327.00	200	Horizontal	Pass
2	4388.800	50.47	-3.38	74.0	23.53	Peak	293.00	400	Horizontal	Pass
2**	4388.800	41.23	-3.38	54.0	12.77	AV	293.00	400	Horizontal	Pass
3	5743.000	106.15	-2.15	--	--	Peak	261.00	150	Horizontal	N/A
3**	5743.000	99.08	-2.15	--	--	AV	261.00	150	Horizontal	N/A
4	7652.913	49.49	-2.84	74.0	24.51	Peak	147.00	400	Horizontal	Pass
4**	7652.913	39.69	-2.84	54.0	14.31	AV	147.00	400	Horizontal	Pass
5	12281.375	54.00	1.80	74.0	20.00	Peak	32.00	200	Horizontal	Pass
5**	12281.375	44.98	1.80	54.0	9.02	AV	32.00	200	Horizontal	Pass
6	16076.925	56.42	1.58	74.0	17.58	Peak	286.00	200	Horizontal	Pass
6**	16076.925	46.08	1.58	54.0	7.92	AV	286.00	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	1500.100	41.30	-16.92	74.0	32.70	Peak	212.00	200	Vertical	Pass
1**	1500.100	37.18	-16.92	54.0	16.82	AV	212.00	200	Vertical	Pass
2	4252.200	49.99	-4.49	74.0	24.01	Peak	193.00	400	Vertical	Pass
2**	4252.200	39.87	-4.49	54.0	14.13	AV	193.00	400	Vertical	Pass
3	5747.800	98.88	-2.21	--	--	Peak	288.00	200	Vertical	N/A
3**	5747.800	92.34	-2.21	--	--	AV	288.00	200	Vertical	N/A
4	7731.687	49.61	-2.33	74.0	24.39	Peak	227.00	100	Vertical	Pass
4**	7731.687	39.91	-2.33	54.0	14.09	AV	227.00	100	Vertical	Pass
5	12317.600	52.89	1.41	74.0	21.11	Peak	358.00	100	Vertical	Pass
5**	12317.600	44.33	1.41	54.0	9.67	AV	358.00	100	Vertical	Pass
6	15628.313	56.08	1.71	74.0	17.92	Peak	285.00	300	Vertical	Pass
6**	15628.313	46.72	1.71	54.0	7.28	AV	285.00	300	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	1499.900	44.93	-16.96	74.0	29.07	Peak	291.00	400	Horizontal	Pass
1**	1499.900	42.54	-16.96	54.0	11.46	AV	291.00	400	Horizontal	Pass
2	4391.400	50.35	-3.43	74.0	23.65	Peak	360.00	200	Horizontal	Pass
2**	4391.400	41.89	-3.43	54.0	12.11	AV	360.00	200	Horizontal	Pass
3	5780.800	106.94	-1.62	--	--	Peak	265.00	200	Horizontal	N/A
3**	5780.800	99.80	-1.62	--	--	AV	265.00	200	Horizontal	N/A
4	7282.038	49.88	-3.34	74.0	24.12	Peak	171.00	100	Horizontal	Pass
4**	7282.038	39.42	-3.34	54.0	14.58	AV	171.00	100	Horizontal	Pass
5	12323.925	53.39	1.42	74.0	20.61	Peak	241.00	200	Horizontal	Pass
5**	12323.925	43.01	1.42	54.0	10.99	AV	241.00	200	Horizontal	Pass
6	15808.650	55.67	2.19	74.0	18.33	Peak	164.00	400	Horizontal	Pass
6**	15808.650	46.76	2.19	54.0	7.24	AV	164.00	400	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	1500.200	41.44	-16.90	74.0	32.56	Peak	222.00	400	Vertical	Pass
1**	1500.200	37.03	-16.90	54.0	16.97	AV	222.00	400	Vertical	Pass
2	4374.000	50.15	-3.92	74.0	23.85	Peak	329.00	200	Vertical	Pass
2**	4374.000	40.71	-3.92	54.0	13.29	AV	329.00	200	Vertical	Pass
3	5782.800	100.66	-1.40	--	--	Peak	329.00	100	Vertical	N/A
3**	5782.800	93.67	-1.40	--	--	AV	329.00	100	Vertical	N/A
4	7713.000	49.74	-2.31	74.0	24.26	Peak	202.00	200	Vertical	Pass
4**	7713.000	41.75	-2.31	54.0	12.25	AV	202.00	200	Vertical	Pass
5	12447.549	52.83	1.85	74.0	21.17	Peak	360.00	150	Vertical	Pass
5**	12447.549	43.58	1.85	54.0	10.42	AV	360.00	150	Vertical	Pass
6	15797.625	55.77	2.26	74.0	18.23	Peak	109.00	300	Vertical	Pass
6**	15797.625	46.70	2.26	54.0	7.30	AV	109.00	300	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	1500.000	45.26	-16.94	74.0	28.74	Peak	326.00	400	Horizontal	Pass
1**	1500.000	43.05	-16.94	54.0	10.95	AV	326.00	400	Horizontal	Pass
2	4380.600	50.49	-3.42	74.0	23.51	Peak	251.00	100	Horizontal	Pass
2**	4380.600	42.19	-3.42	54.0	11.81	AV	251.00	100	Horizontal	Pass
3	5827.800	107.19	-1.91	--	--	Peak	271.00	200	Horizontal	N/A
3**	5827.800	99.37	-1.91	--	--	AV	271.00	200	Horizontal	N/A
4	7734.275	50.07	-2.71	74.0	23.93	Peak	95.00	200	Horizontal	Pass
4**	7734.275	39.62	-2.71	54.0	14.38	AV	95.00	200	Horizontal	Pass
5	12437.488	52.77	1.74	74.0	21.23	Peak	163.00	200	Horizontal	Pass
5**	12437.488	44.05	1.74	54.0	9.95	AV	163.00	200	Horizontal	Pass
6	16075.875	55.68	1.56	74.0	18.32	Peak	0.00	300	Horizontal	Pass
6**	16075.875	46.84	1.56	54.0	7.16	AV	0.00	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	1499.800	42.58	-16.97	74.0	31.42	Peak	235.00	200	Vertical	Pass
1**	1499.800	36.53	-16.97	54.0	17.47	AV	235.00	200	Vertical	Pass
2	4380.200	50.52	-3.35	74.0	23.48	Peak	43.00	300	Vertical	Pass
2**	4380.200	41.59	-3.35	54.0	12.41	AV	43.00	300	Vertical	Pass
3	5827.000	100.17	-1.98	--	--	Peak	16.00	100	Vertical	N/A
3**	5827.000	92.57	-1.98	--	--	AV	16.00	100	Vertical	N/A
4	7503.700	49.45	-3.05	74.0	24.55	Peak	285.00	400	Vertical	Pass
4**	7503.700	40.10	-3.05	54.0	13.90	AV	285.00	400	Vertical	Pass
5	11672.162	52.91	0.25	74.0	21.09	Peak	173.00	150	Vertical	Pass
5**	11672.162	43.31	0.25	54.0	10.69	AV	173.00	150	Vertical	Pass
6	15789.487	55.65	1.99	74.0	18.35	Peak	235.00	200	Vertical	Pass
6**	15789.487	47.10	1.99	54.0	6.90	AV	235.00	200	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	1500.000	44.52	-16.94	74.0	29.48	Peak	319.00	100	Horizontal	Pass
1**	1500.000	42.60	-16.94	54.0	11.40	AV	319.00	100	Horizontal	Pass
2	4302.200	49.94	-4.31	74.0	24.06	Peak	277.00	400	Horizontal	Pass
2**	4302.200	40.47	-4.31	54.0	13.53	AV	277.00	400	Horizontal	Pass
3	5758.400	104.23	-1.61	--	--	Peak	261.00	100	Horizontal	N/A
3**	5758.400	96.77	-1.61	--	--	AV	261.00	100	Horizontal	N/A
4	7279.162	49.38	-3.12	74.0	24.62	Peak	129.00	100	Horizontal	Pass
4**	7279.162	40.33	-3.12	54.0	13.67	AV	129.00	100	Horizontal	Pass
5	12287.126	53.31	1.73	74.0	20.69	Peak	340.00	100	Horizontal	Pass
5**	12287.126	43.71	1.73	54.0	10.29	AV	340.00	100	Horizontal	Pass
6	15799.987	56.20	2.33	74.0	17.80	Peak	258.00	200	Horizontal	Pass
6**	15799.987	46.84	2.33	54.0	7.16	AV	258.00	200	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	1499.900	41.52	-16.96	74.0	32.48	Peak	220.00	100	Vertical	Pass
1**	1499.900	37.65	-16.96	54.0	16.35	AV	220.00	100	Vertical	Pass
2	4379.400	49.98	-3.32	74.0	24.02	Peak	93.00	400	Vertical	Pass
2**	4379.400	41.18	-3.32	54.0	12.82	AV	93.00	400	Vertical	Pass
3	5757.400	98.29	-1.74	--	--	Peak	6.00	150	Vertical	N/A
3**	5757.400	90.60	-1.74	--	--	AV	6.00	150	Vertical	N/A
4	7625.888	49.90	-2.77	74.0	24.10	Peak	218.00	200	Vertical	Pass
4**	7625.888	41.47	-2.77	54.0	12.53	AV	218.00	200	Vertical	Pass
5	12505.912	53.27	1.67	74.0	20.73	Peak	346.00	200	Vertical	Pass
5**	12505.912	43.38	1.67	54.0	10.62	AV	346.00	200	Vertical	Pass
6	15682.125	55.63	1.52	74.0	18.37	Peak	88.00	200	Vertical	Pass
6**	15682.125	46.34	1.52	54.0	7.66	AV	88.00	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	1500.000	45.36	-16.94	74.0	28.64	Peak	322.00	300	Horizontal	Pass
1**	1500.000	42.55	-16.94	54.0	11.45	AV	322.00	300	Horizontal	Pass
2	4375.000	49.58	-4.11	74.0	24.42	Peak	353.00	100	Horizontal	Pass
2**	4375.000	40.49	-4.11	54.0	13.51	AV	353.00	100	Horizontal	Pass
3	5797.000	103.03	-1.72	--	--	Peak	270.00	100	Horizontal	N/A
3**	5797.000	95.30	-1.72	--	--	AV	270.00	100	Horizontal	N/A
4	7726.800	49.68	-2.49	74.0	24.32	Peak	205.00	100	Horizontal	Pass
4**	7726.800	43.19	-2.49	54.0	10.81	AV	205.00	100	Horizontal	Pass
5	12316.450	53.01	1.41	74.0	20.99	Peak	126.00	100	Horizontal	Pass
5**	12316.450	44.55	1.41	54.0	9.45	AV	126.00	100	Horizontal	Pass
6	16170.112	56.29	1.16	74.0	17.71	Peak	287.00	100	Horizontal	Pass
6**	16170.112	45.61	1.16	54.0	8.39	AV	287.00	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	1500.400	41.72	-16.86	74.0	32.28	Peak	216.00	300	Vertical	Pass
1**	1500.400	36.73	-16.86	54.0	17.27	AV	216.00	300	Vertical	Pass
2	4263.200	50.43	-4.64	74.0	23.57	Peak	353.00	100	Vertical	Pass
2**	4263.200	41.56	-4.64	54.0	12.44	AV	353.00	100	Vertical	Pass
3	5796.600	97.15	-1.70	--	--	Peak	13.00	100	Vertical	N/A
3**	5796.600	89.73	-1.70	--	--	AV	13.00	100	Vertical	N/A
4	7726.800	49.98	-2.49	74.0	24.02	Peak	262.00	200	Vertical	Pass
4**	7726.800	43.24	-2.49	54.0	10.76	AV	262.00	200	Vertical	Pass
5	12279.075	53.78	1.77	74.0	20.22	Peak	229.00	150	Vertical	Pass
5**	12279.075	43.47	1.77	54.0	10.53	AV	229.00	150	Vertical	Pass
6	15849.075	55.92	1.34	74.0	18.08	Peak	194.00	200	Vertical	Pass
6**	15849.075	46.59	1.34	54.0	7.41	AV	194.00	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	1499.900	45.06	-16.96	74.0	28.94	Peak	320.00	200	Horizontal	Pass
1**	1499.900	42.44	-16.96	54.0	11.56	AV	320.00	200	Horizontal	Pass
2	4379.800	50.14	-3.28	74.0	23.86	Peak	109.00	400	Horizontal	Pass
2**	4379.800	41.76	-3.28	54.0	12.24	AV	109.00	400	Horizontal	Pass
3	5781.200	100.65	-1.54	--	--	Peak	269.00	100	Horizontal	N/A
3**	5781.200	92.51	-1.54	--	--	AV	269.00	100	Horizontal	N/A
4	7319.125	49.50	-3.01	74.0	24.50	Peak	291.00	300	Horizontal	Pass
4**	7319.125	40.97	-3.01	54.0	13.03	AV	291.00	300	Horizontal	Pass
5	12611.425	53.55	1.89	74.0	20.45	Peak	30.00	200	Horizontal	Pass
5**	12611.425	43.81	1.89	54.0	10.19	AV	30.00	200	Horizontal	Pass
6	15393.375	56.67	0.63	74.0	17.33	Peak	173.00	200	Horizontal	Pass
6**	15393.375	45.33	0.63	54.0	8.67	AV	173.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.200	42.53	-16.90	74.0	31.47	Peak	16.00	400	Vertical	Pass
1**	1500.200	37.22	-16.90	54.0	16.78	AV	16.00	400	Vertical	Pass
2	4380.800	50.02	-3.46	74.0	23.98	Peak	331.00	400	Vertical	Pass
2**	4380.800	41.58	-3.46	54.0	12.42	AV	331.00	400	Vertical	Pass
3	5769.600	94.92	-1.77	--	--	Peak	300.00	150	Vertical	N/A
3**	5769.600	86.28	-1.77	--	--	AV	300.00	150	Vertical	N/A
4	7338.675	50.06	-2.91	74.0	23.94	Peak	47.00	400	Vertical	Pass
4**	7338.675	41.19	-2.91	54.0	12.81	AV	47.00	400	Vertical	Pass
5	11547.963	53.18	-0.50	74.0	20.82	Peak	340.00	100	Vertical	Pass
5**	11547.963	42.78	-0.50	54.0	11.22	AV	340.00	100	Vertical	Pass
6	16050.150	56.21	0.73	74.0	17.79	Peak	360.00	400	Vertical	Pass
6**	16050.150	45.94	0.73	54.0	8.06	AV	360.00	400	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

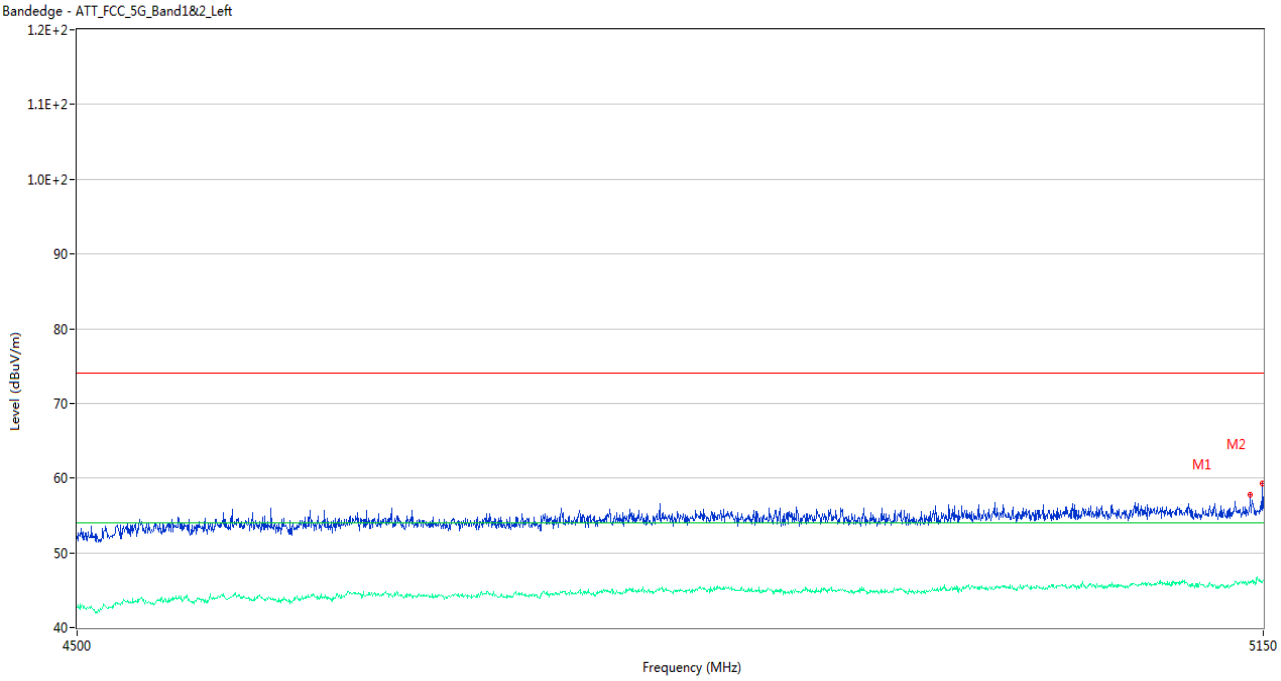
Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low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

Note: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data and Plots

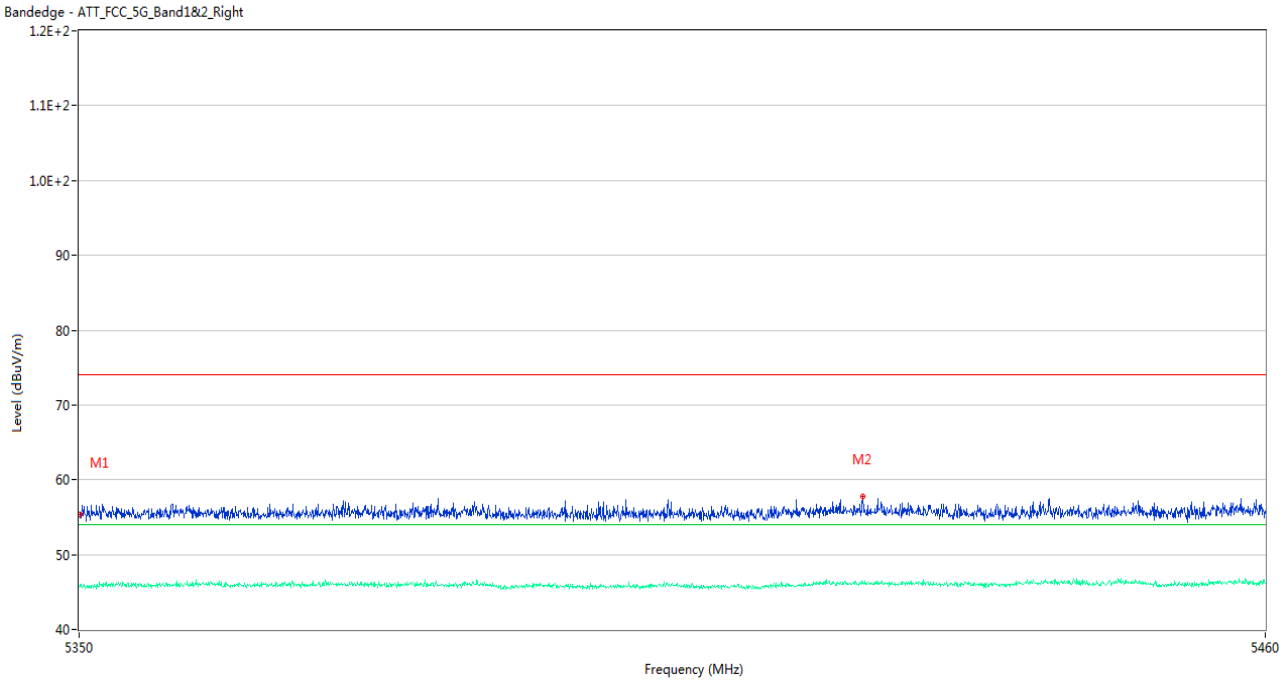
SISO-Antenna A

U-NII-1 11a Low Channel



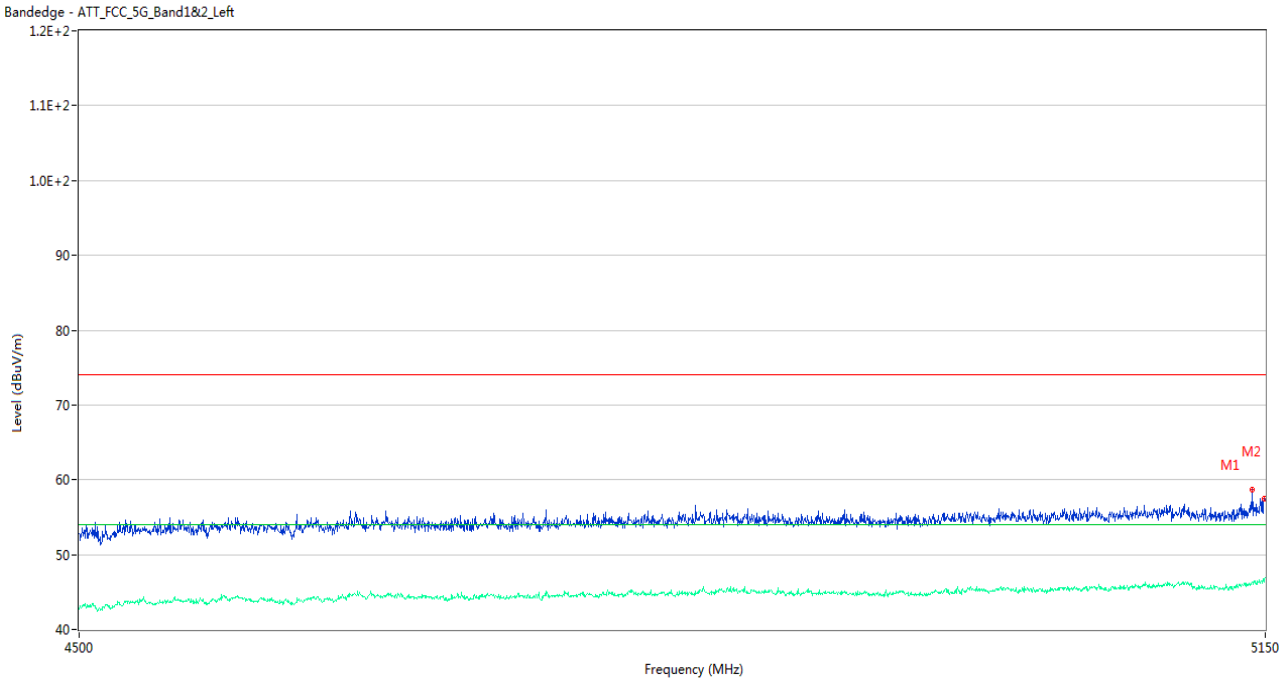
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5142.525	57.84	2.44	74.0	16.16	Peak	237.00	150	Horizontal	Pass
1**	5142.525	46.07	2.44	54.0	7.93	AV	237.00	150	Horizontal	Pass
2	5149.675	59.35	2.07	74.0	14.65	Peak	252.00	200	Horizontal	Pass
2**	5149.675	46.03	2.07	54.0	7.97	AV	252.00	200	Horizontal	Pass

U-NII-1 11a High Channel



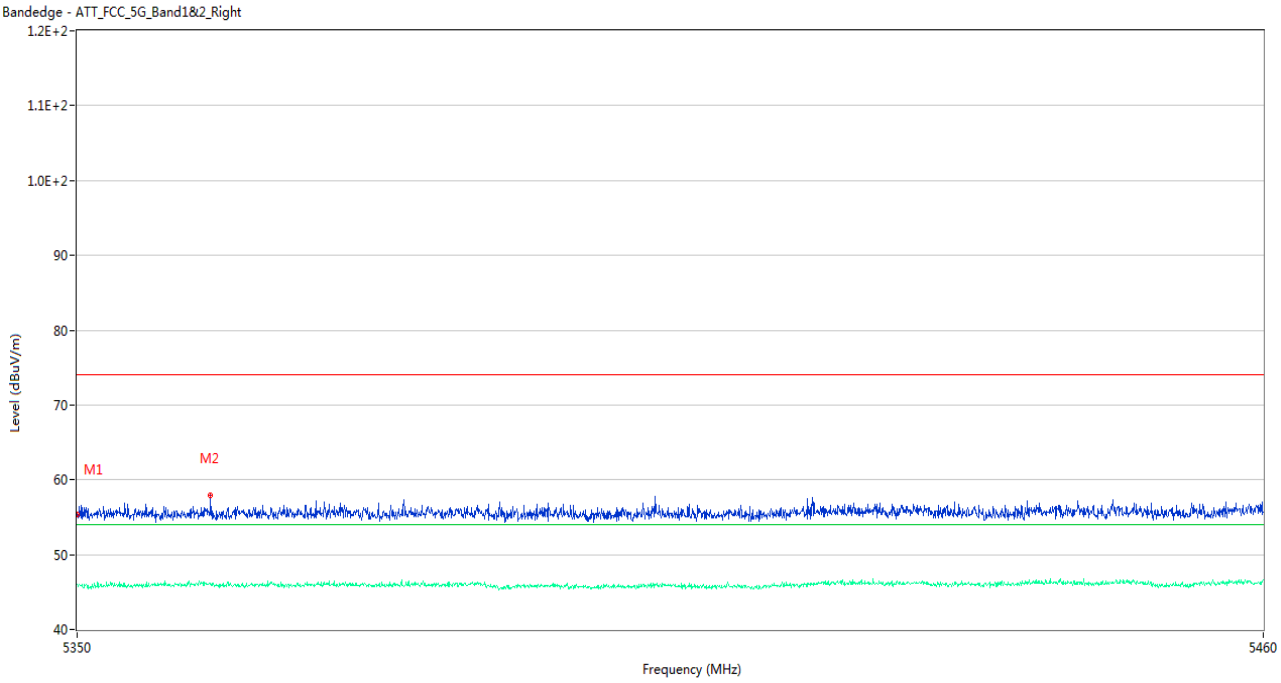
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.35	1.93	74.0	18.65	Peak	137.00	100	Horizontal	Pass
1**	5350.055	45.69	1.93	54.0	8.31	AV	137.00	100	Horizontal	Pass
2	5422.435	57.80	2.44	74.0	16.20	Peak	129.00	100	Horizontal	Pass
2**	5422.435	46.34	2.44	54.0	7.66	AV	129.00	100	Horizontal	Pass

U-NII-1 11n20 Low Channel



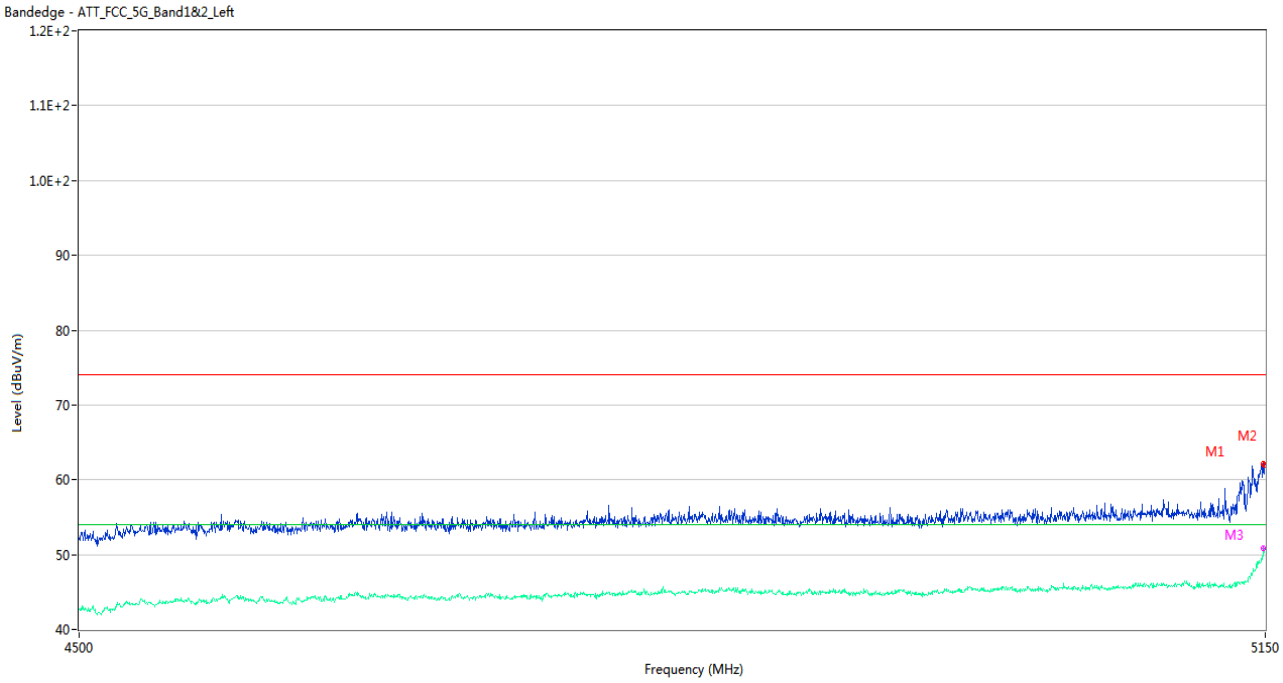
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5142.525	58.73	2.44	74.0	15.27	Peak	271.00	100	Horizontal	Pass
1**	5142.525	46.34	2.44	54.0	7.66	AV	271.00	100	Horizontal	Pass
2	5149.675	57.44	2.07	74.0	16.56	Peak	224.00	200	Horizontal	Pass
2**	5149.675	46.60	2.07	54.0	7.40	AV	224.00	200	Horizontal	Pass

U-NII-1 11n20 High Channel



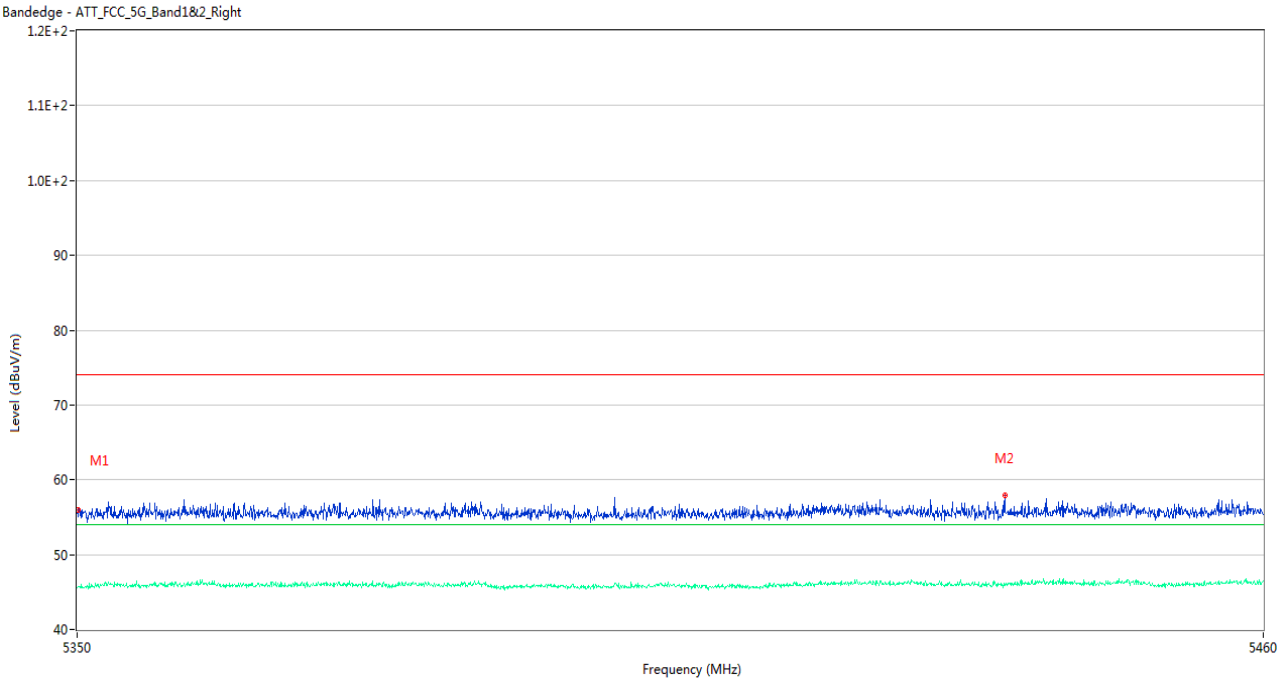
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.40	1.93	74.0	18.60	Peak	87.00	200	Horizontal	Pass
1**	5350.000	46.01	1.93	54.0	7.99	AV	87.00	200	Horizontal	Pass
2	5362.265	57.94	2.29	74.0	16.06	Peak	280.00	200	Horizontal	Pass
2**	5362.265	46.11	2.29	54.0	7.89	AV	280.00	200	Horizontal	Pass

U-NII-1 11n40 Low Channel



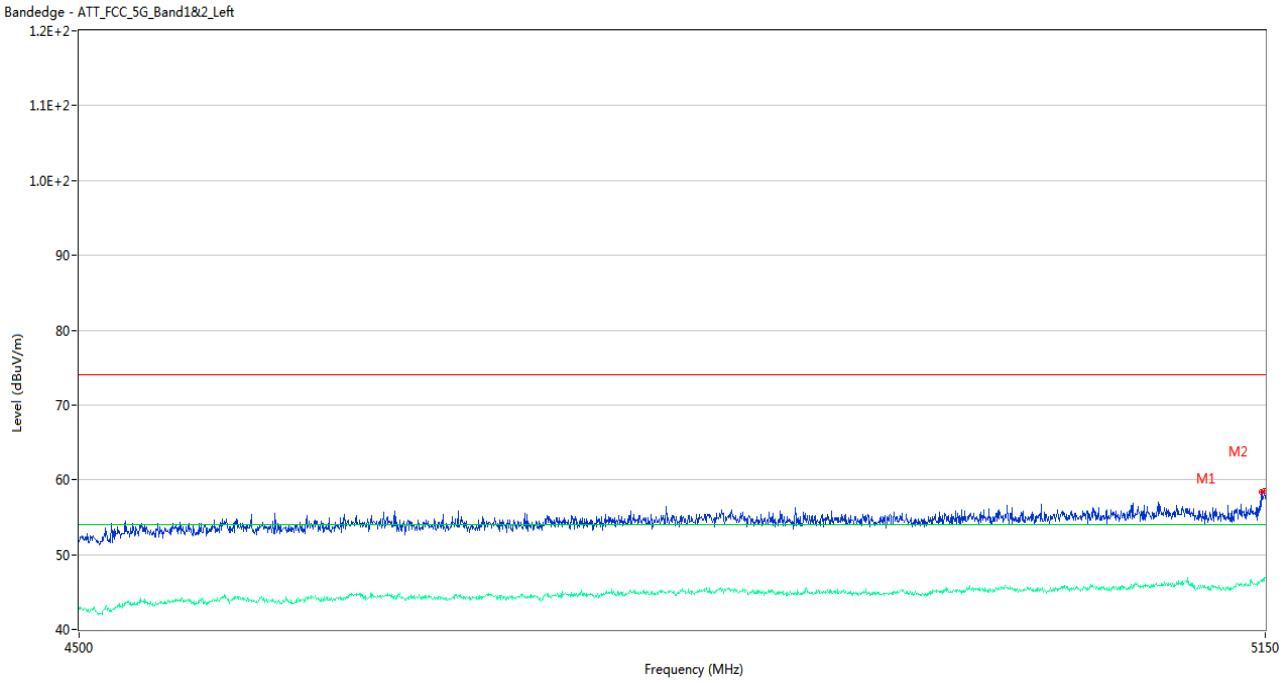
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.700	62.18	2.06	74.0	11.82	Peak	305.00	100	Horizontal	Pass
1**	5148.700	49.76	2.06	54.0	4.24	AV	305.00	100	Horizontal	Pass
2	5149.675	61.95	2.07	74.0	12.05	Peak	265.00	100	Horizontal	Pass
2**	5149.675	50.46	2.07	54.0	3.54	AV	265.00	100	Horizontal	Pass
3	5149.025	61.11	2.02	74.0	12.89	Peak	256.00	150	Horizontal	Pass
3**	5149.025	50.85	2.02	54.0	3.15	AV	256.00	150	Horizontal	Pass

U-NII-1 11n40 High Channel



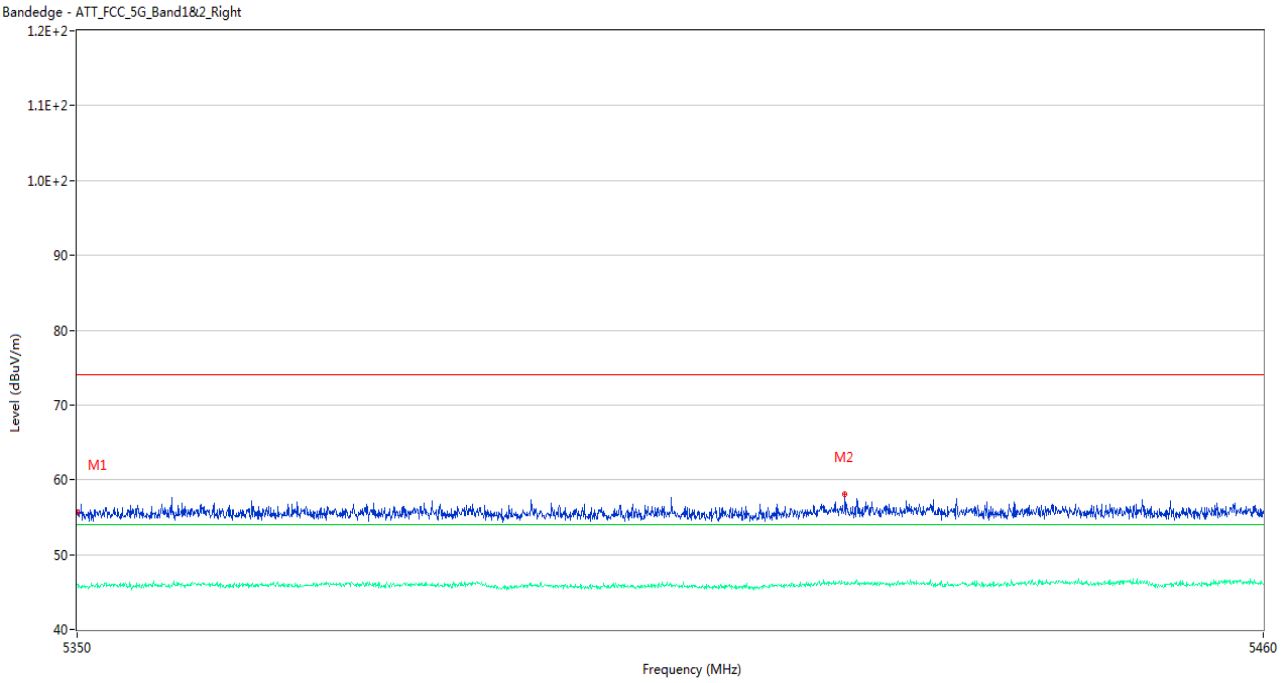
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.91	1.93	74.0	18.09	Peak	28.00	200	Horizontal	Pass
1**	5350.055	45.71	1.93	54.0	8.29	AV	28.00	200	Horizontal	Pass
2	5435.855	57.89	2.06	74.0	16.11	Peak	251.00	150	Horizontal	Pass
2**	5435.855	45.83	2.06	54.0	8.17	AV	251.00	150	Horizontal	Pass

U-NII-1 11ac20 Low Channel



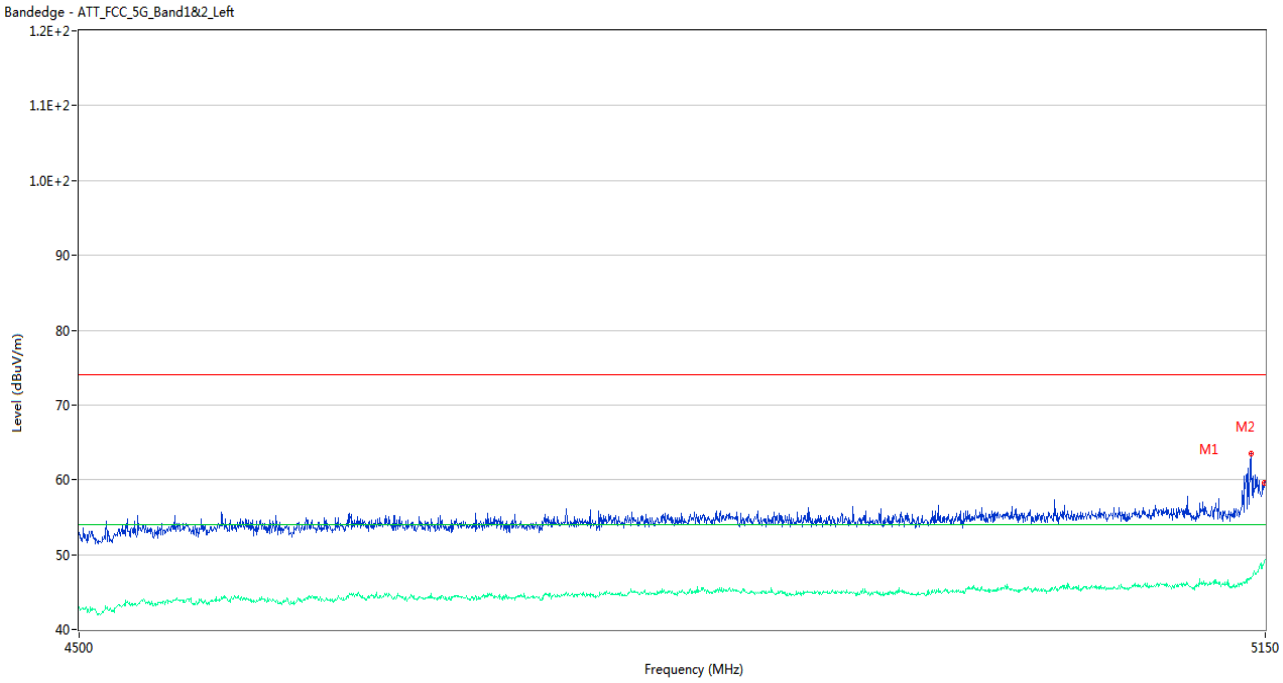
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.400	58.38	2.23	74.0	15.62	Peak	260.00	150	Horizontal	Pass
1**	5147.400	46.44	2.23	54.0	7.56	AV	260.00	150	Horizontal	Pass
2	5149.675	58.46	2.07	74.0	15.54	Peak	286.00	100	Horizontal	Pass
2**	5149.675	46.91	2.07	54.0	7.09	AV	286.00	100	Horizontal	Pass

U-NII-1 11ac20 High Channel



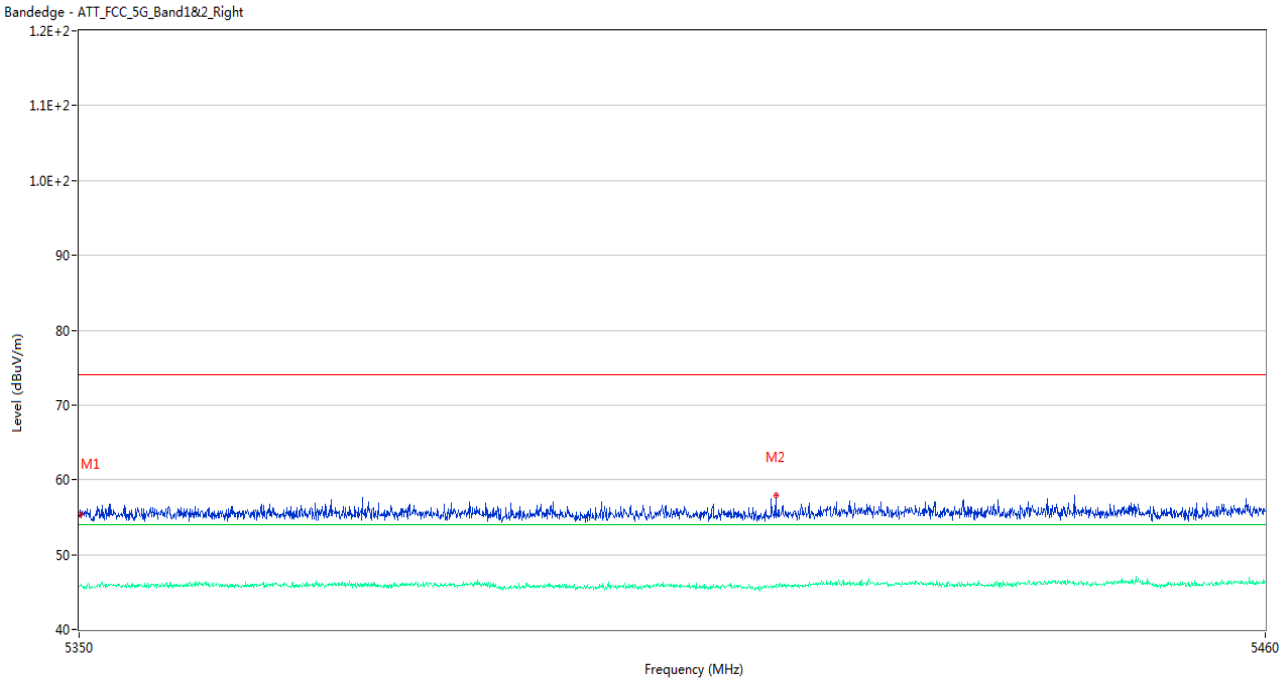
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.67	1.93	74.0	18.33	Peak	103.00	100	Horizontal	Pass
1**	5350.000	45.98	1.93	54.0	8.02	AV	103.00	100	Horizontal	Pass
2	5420.950	58.05	2.43	74.0	15.95	Peak	325.00	100	Horizontal	Pass
2**	5420.950	46.03	2.43	54.0	7.97	AV	325.00	100	Horizontal	Pass

U-NII-1 11ac40 Low Channel



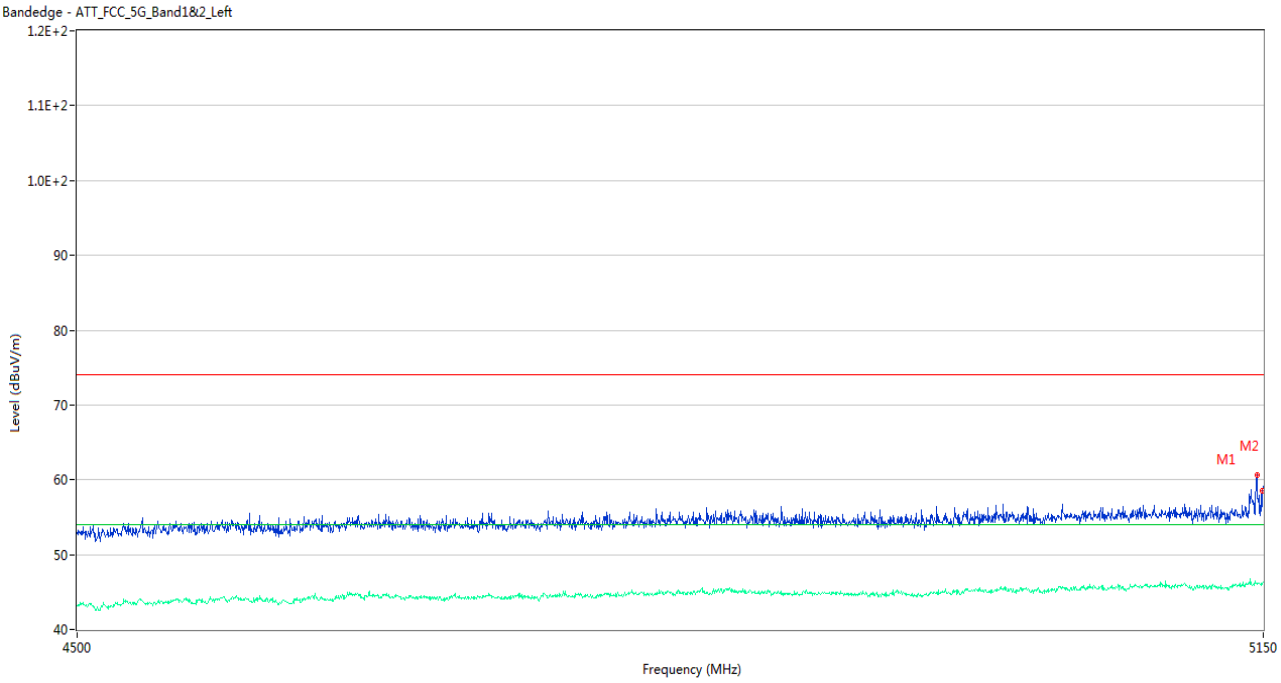
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5141.550	63.53	2.40	74.0	10.47	Peak	265.00	200	Horizontal	Pass
1**	5141.550	46.83	2.40	54.0	7.17	AV	265.00	200	Horizontal	Pass
2	5149.675	59.63	2.07	74.0	14.37	Peak	265.00	200	Horizontal	Pass
2**	5149.675	49.07	2.07	54.0	4.93	AV	265.00	200	Horizontal	Pass

U-NII-1 11ac40 High Channel



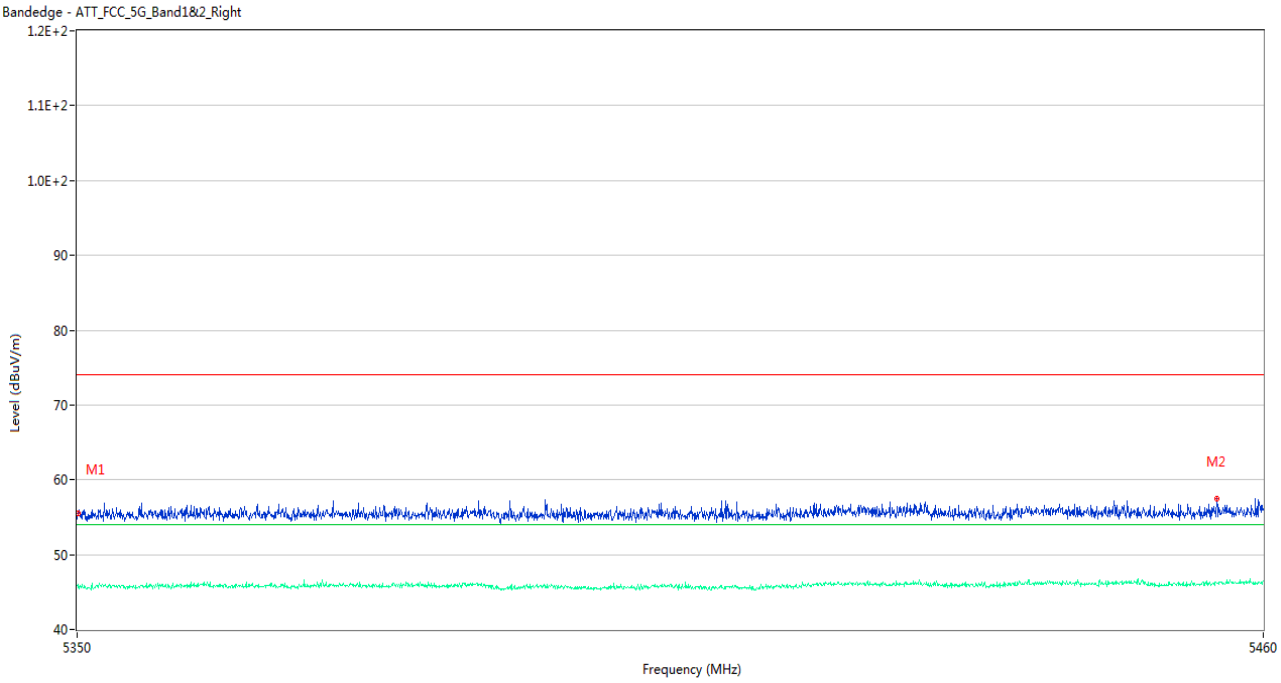
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.35	1.93	74.0	18.65	Peak	352.00	150	Horizontal	Pass
1**	5350.055	45.84	1.93	54.0	8.16	AV	352.00	150	Horizontal	Pass
2	5414.350	57.98	2.12	74.0	16.02	Peak	328.00	100	Horizontal	Pass
2**	5414.350	45.62	2.12	54.0	8.38	AV	328.00	100	Horizontal	Pass

U-NII-1 11ac80 Middle Channel



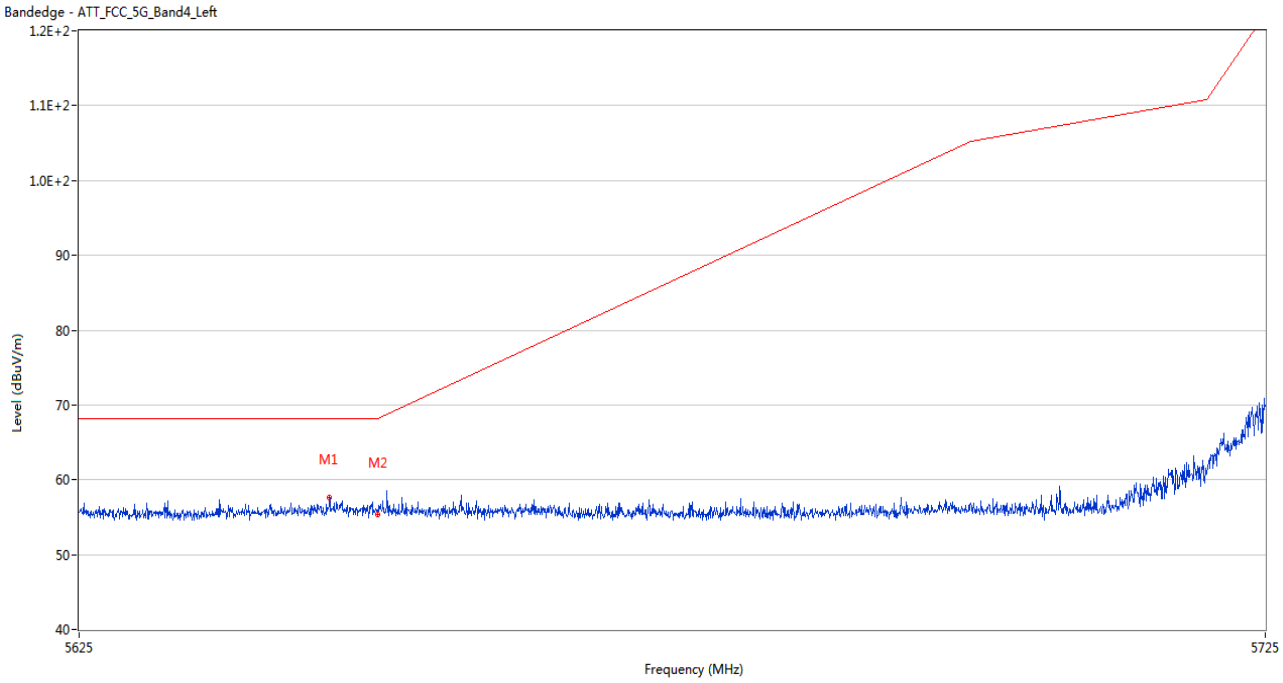
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5146.425	60.68	2.28	74.0	13.32	Peak	270.00	200	Horizontal	Pass
1**	5146.425	46.09	2.28	54.0	7.91	AV	270.00	200	Horizontal	Pass
2	5149.675	58.60	2.07	74.0	15.40	Peak	283.00	200	Horizontal	Pass
2**	5149.675	46.09	2.07	54.0	7.91	AV	283.00	200	Horizontal	Pass

U-NII-1 11ac80 Middle Channel



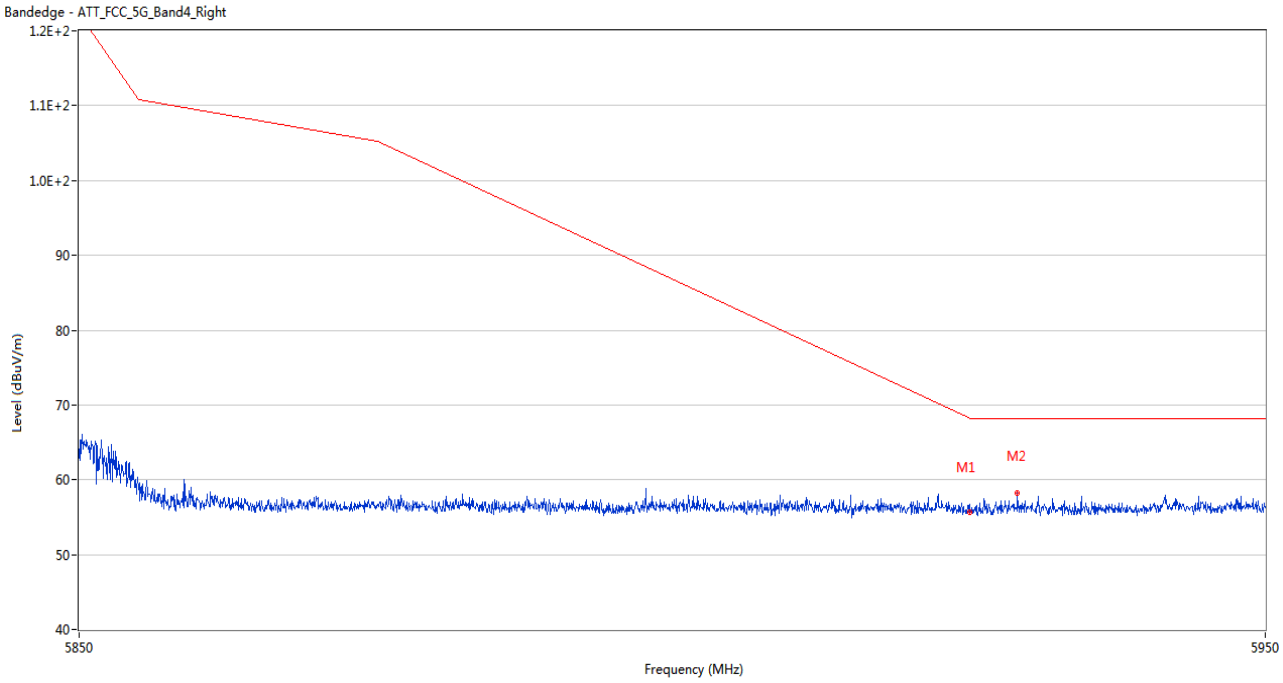
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.55	1.93	74.0	18.45	Peak	101.00	150	Horizontal	Pass
1**	5350.055	46.06	1.93	54.0	7.94	AV	101.00	150	Horizontal	Pass
2	5455.655	57.47	2.36	74.0	16.53	Peak	247.00	150	Horizontal	Pass
2**	5455.655	46.22	2.36	54.0	7.78	AV	247.00	150	Horizontal	Pass

U-NII-3 11a Low Channel



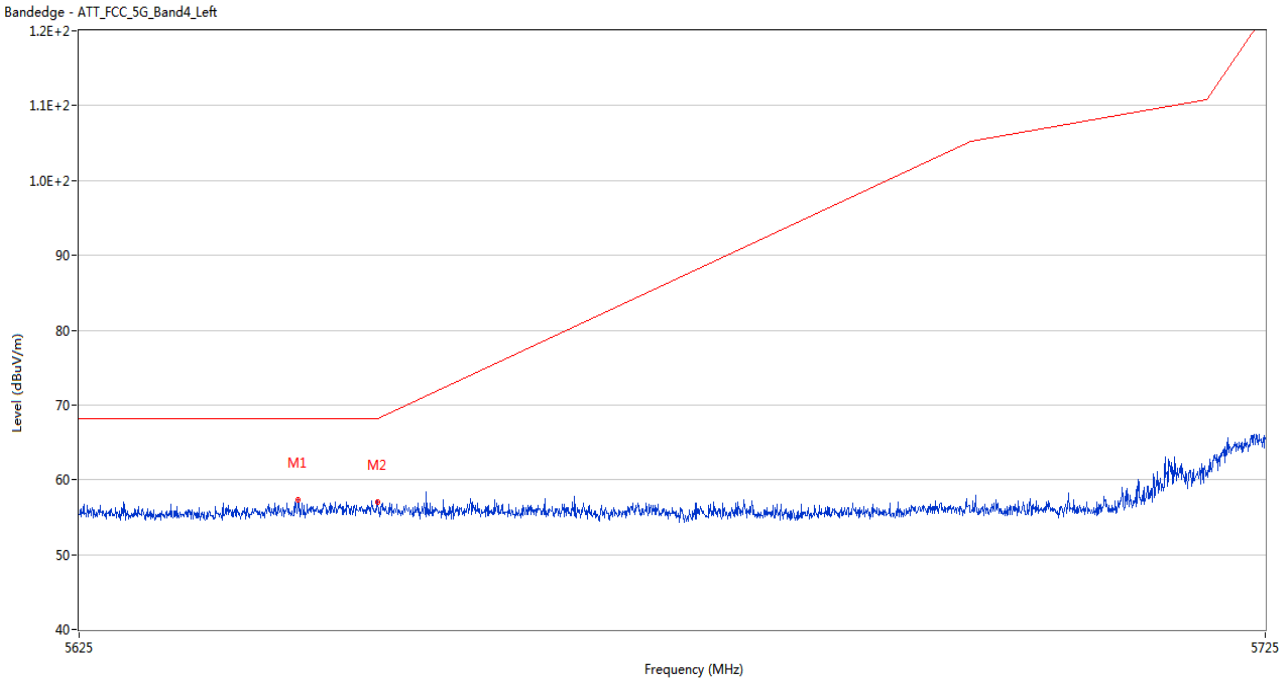
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5645.950	57.68	2.68	68.2	10.52	Peak	269.00	100	Horizontal	Pass
2	5650.000	55.42	2.54	68.2	12.78	Peak	236.00	100	Horizontal	Pass

U-NII-3 11a High Channel



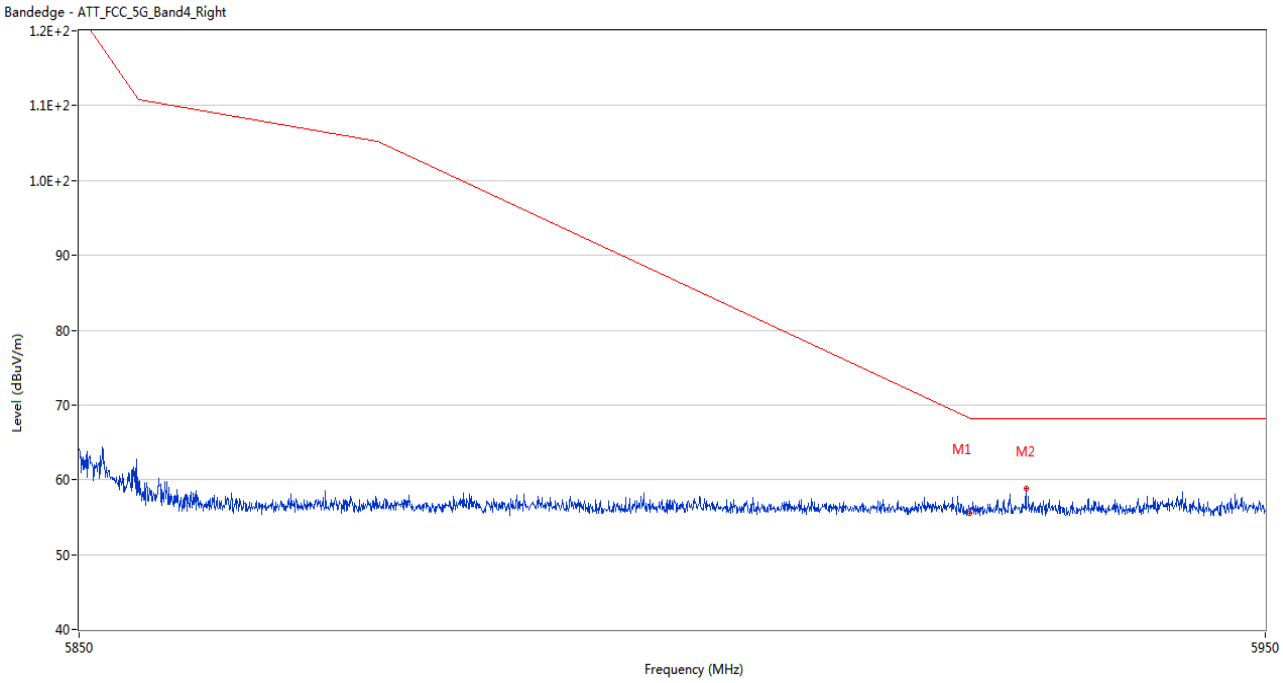
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.71	2.32	68.2	12.49	Peak	273.00	150	Horizontal	Pass
2	5928.950	58.23	2.70	68.2	9.97	Peak	295.00	100	Horizontal	Pass

U-NII-3 11n20 Low Channel



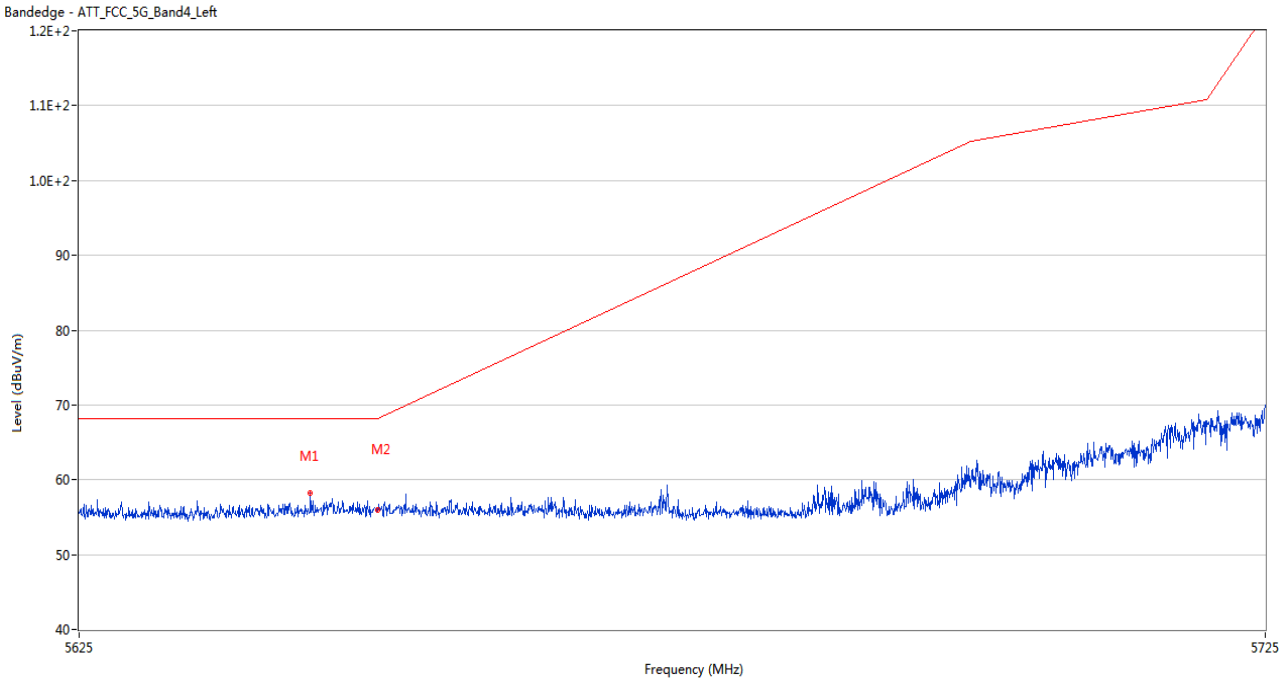
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5643.350	57.31	2.35	68.2	10.89	Peak	280.00	100	Horizontal	Pass
2	5650.000	56.98	2.54	68.2	11.22	Peak	244.00	150	Horizontal	Pass

U-NII-3 11n20 High Channel



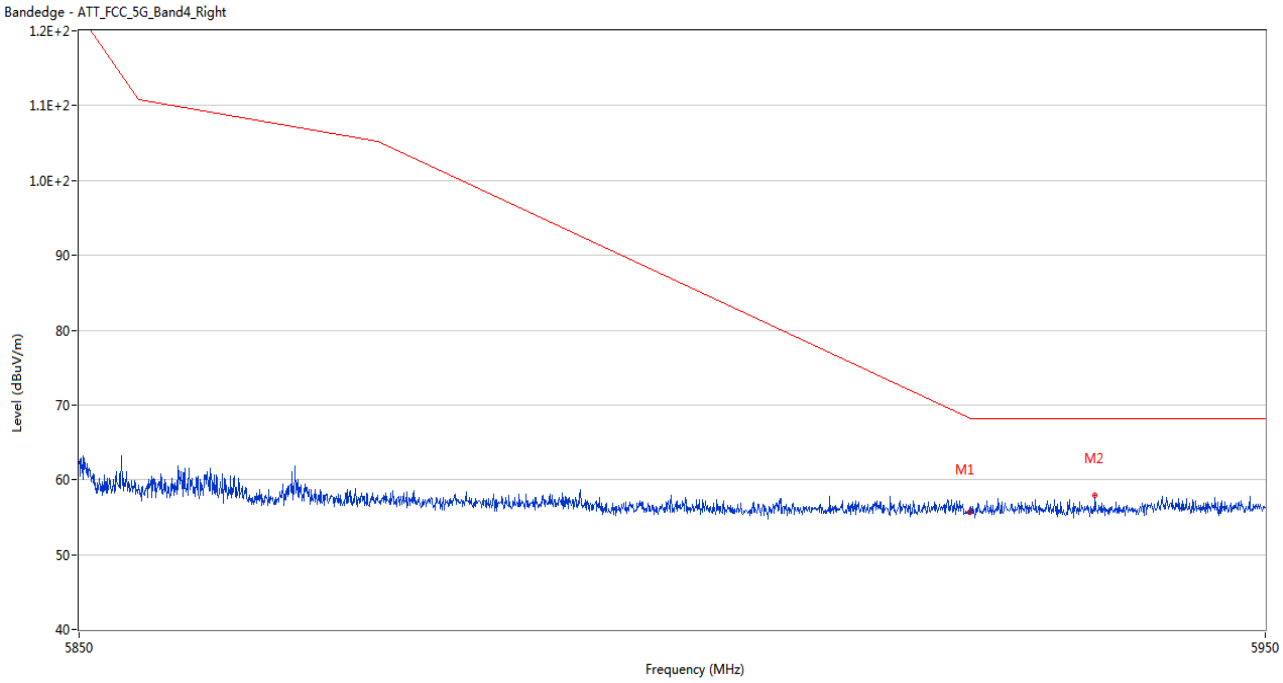
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.51	2.32	68.2	12.69	Peak	118.00	200	Horizontal	Pass
2	5929.700	58.76	2.63	68.2	9.44	Peak	333.00	150	Horizontal	Pass

U-NII-3 11n40 Low Channel



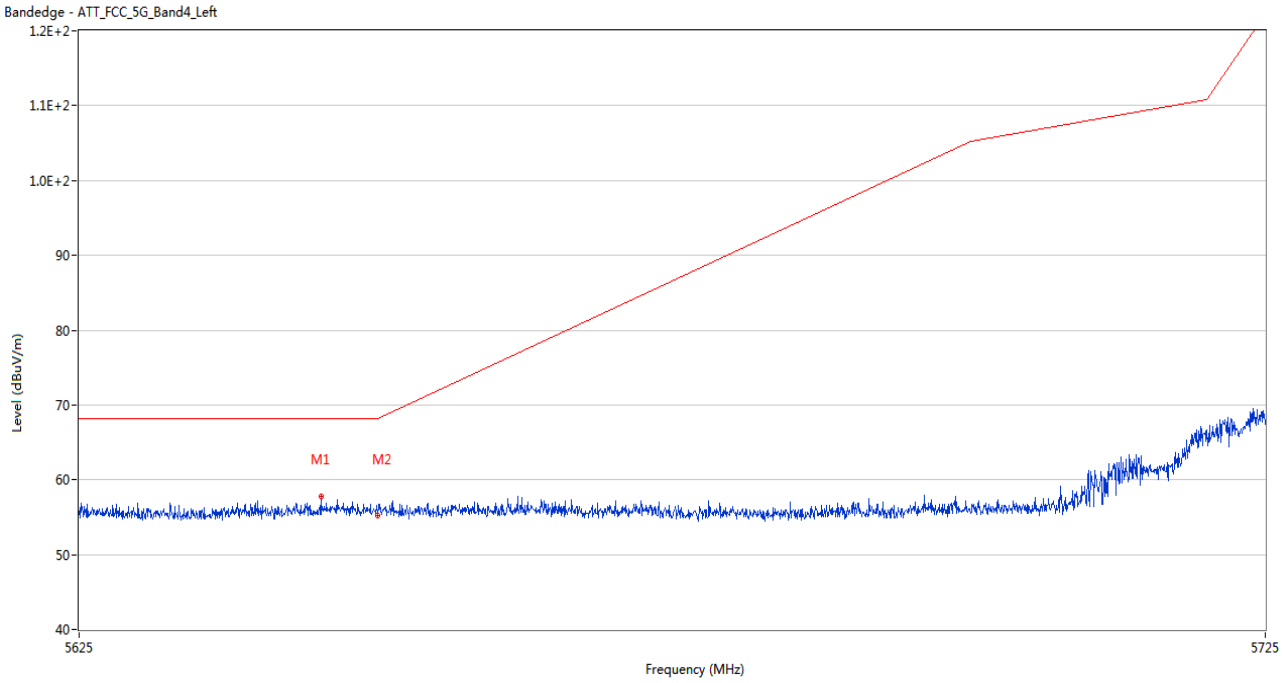
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5644.350	58.23	2.42	68.2	9.97	Peak	312.00	100	Horizontal	Pass
2	5650.000	56.00	2.54	68.2	12.20	Peak	263.00	100	Horizontal	Pass

U-NII-3 11n40 High Channel



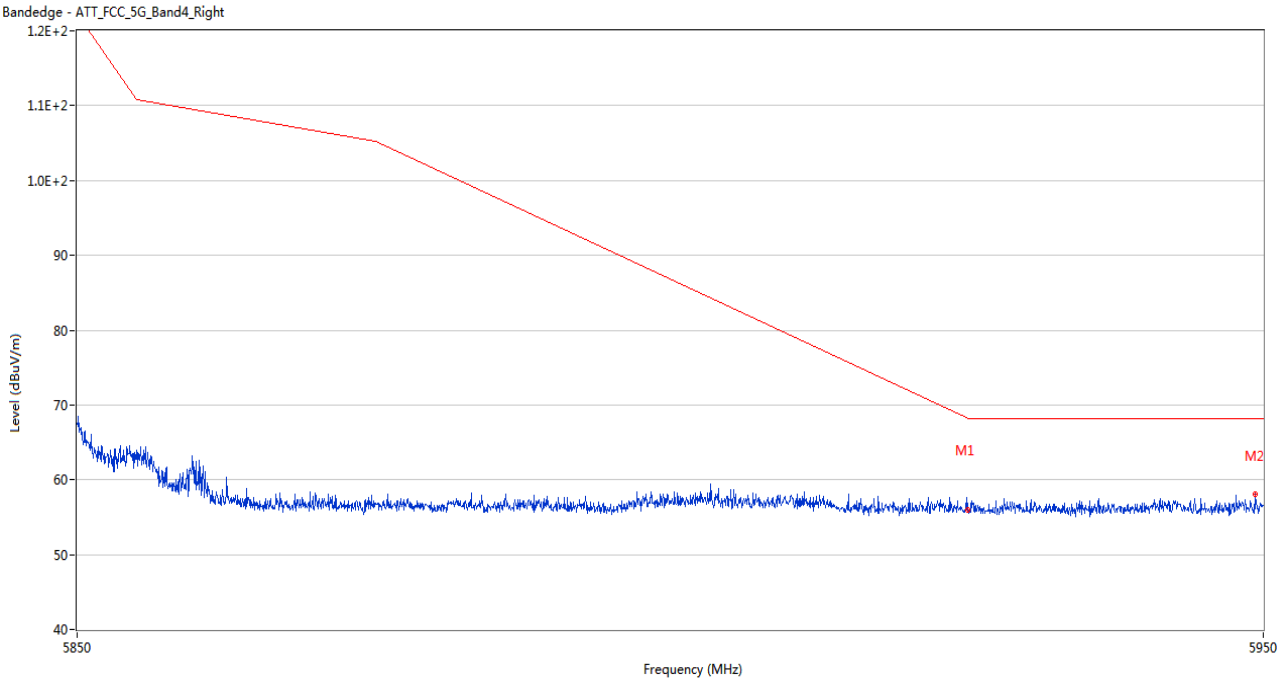
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.71	2.32	68.2	12.49	Peak	268.00	200	Horizontal	Pass
2	5935.550	57.89	2.48	68.2	10.31	Peak	5.00	100	Horizontal	Pass

U-NII-3 11ac20 Low Channel



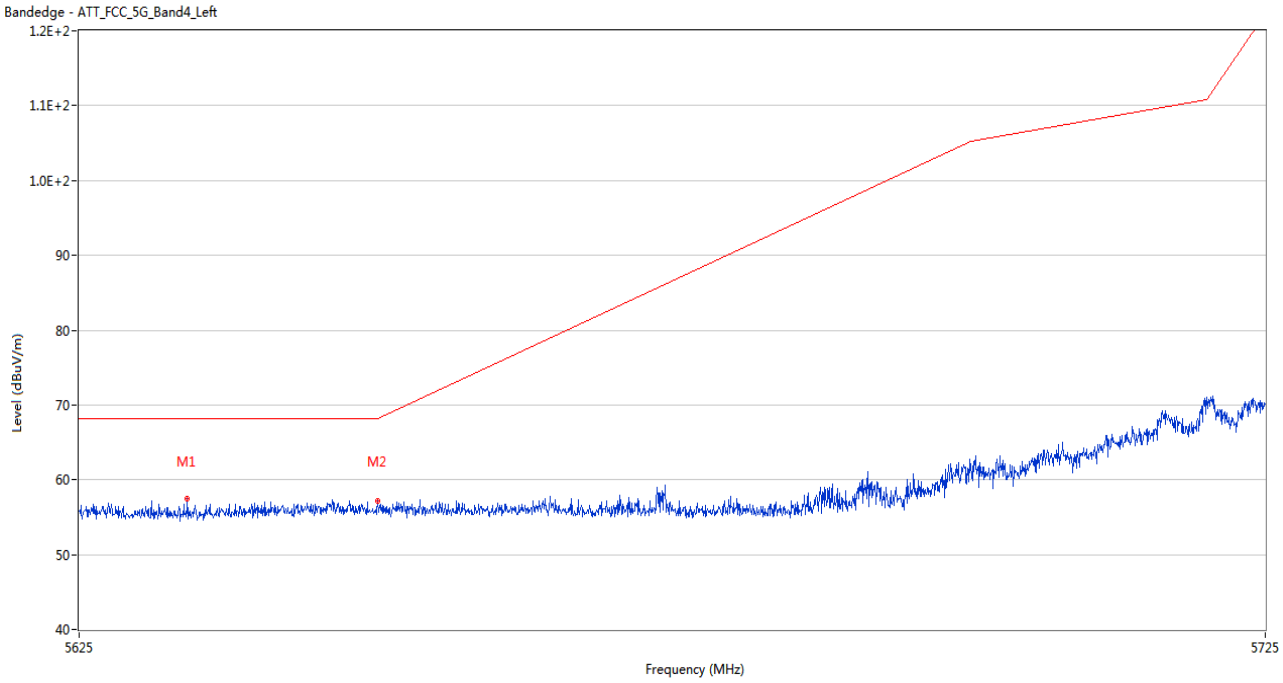
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5645.250	57.75	2.57	68.2	10.45	Peak	286.00	150	Horizontal	Pass
2	5650.000	55.19	2.54	68.2	13.01	Peak	193.00	200	Horizontal	Pass

U-NII-3 11ac20 High Channel



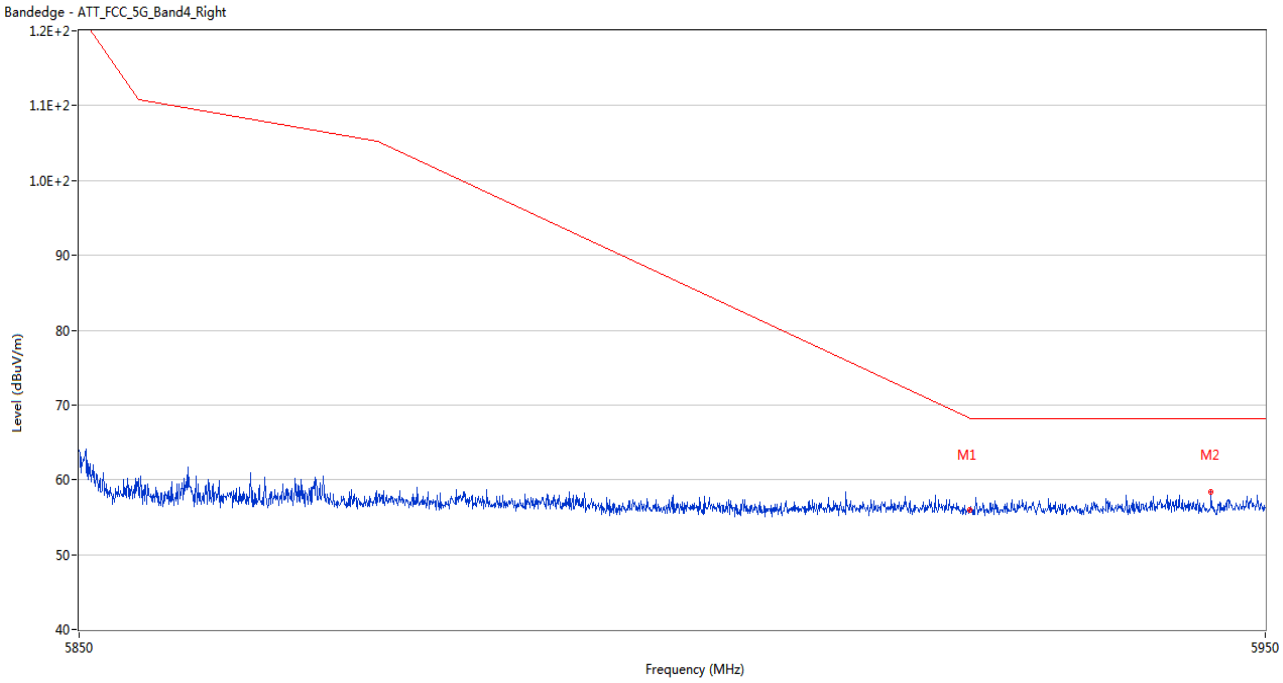
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.02	2.32	68.2	12.18	Peak	58.00	100	Horizontal	Pass
2	5949.300	58.15	2.58	68.2	10.05	Peak	312.00	150	Horizontal	Pass

U-NII-3 11ac40 Low Channel



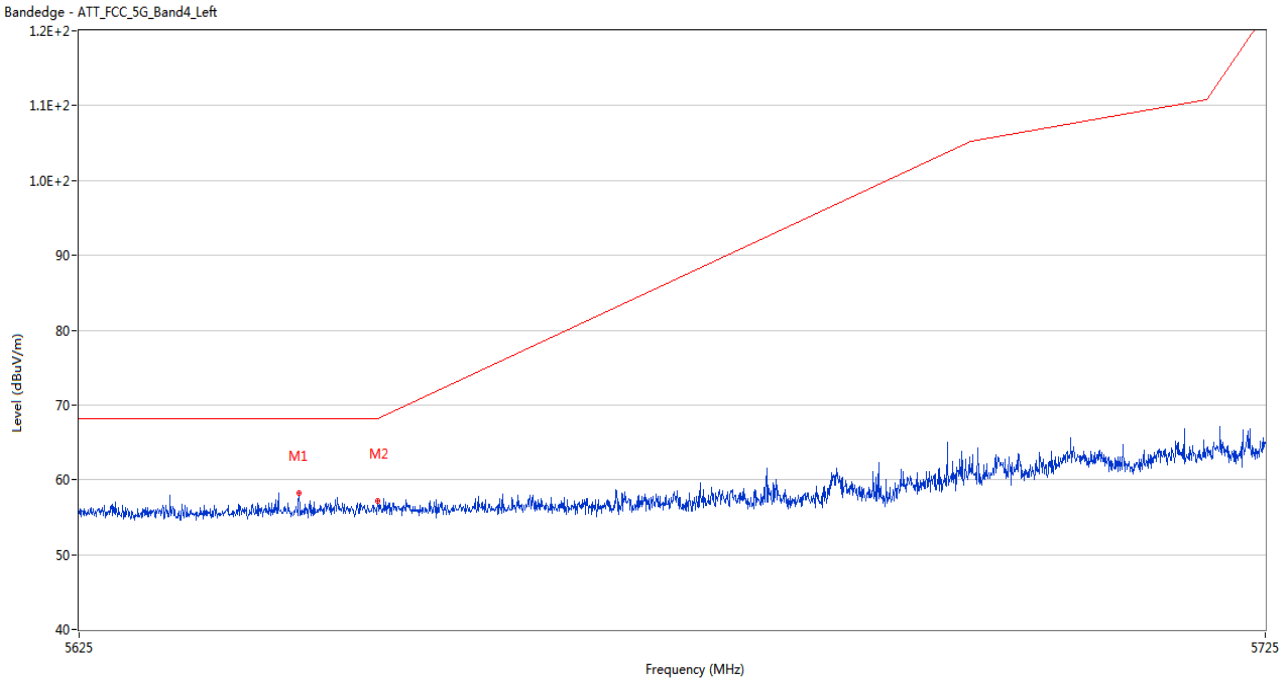
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5634.050	57.41	2.01	68.2	10.79	Peak	271.00	100	Horizontal	Pass
2	5650.000	57.12	2.54	68.2	11.08	Peak	149.00	150	Horizontal	Pass

U-NII-3 11ac40 High Channel



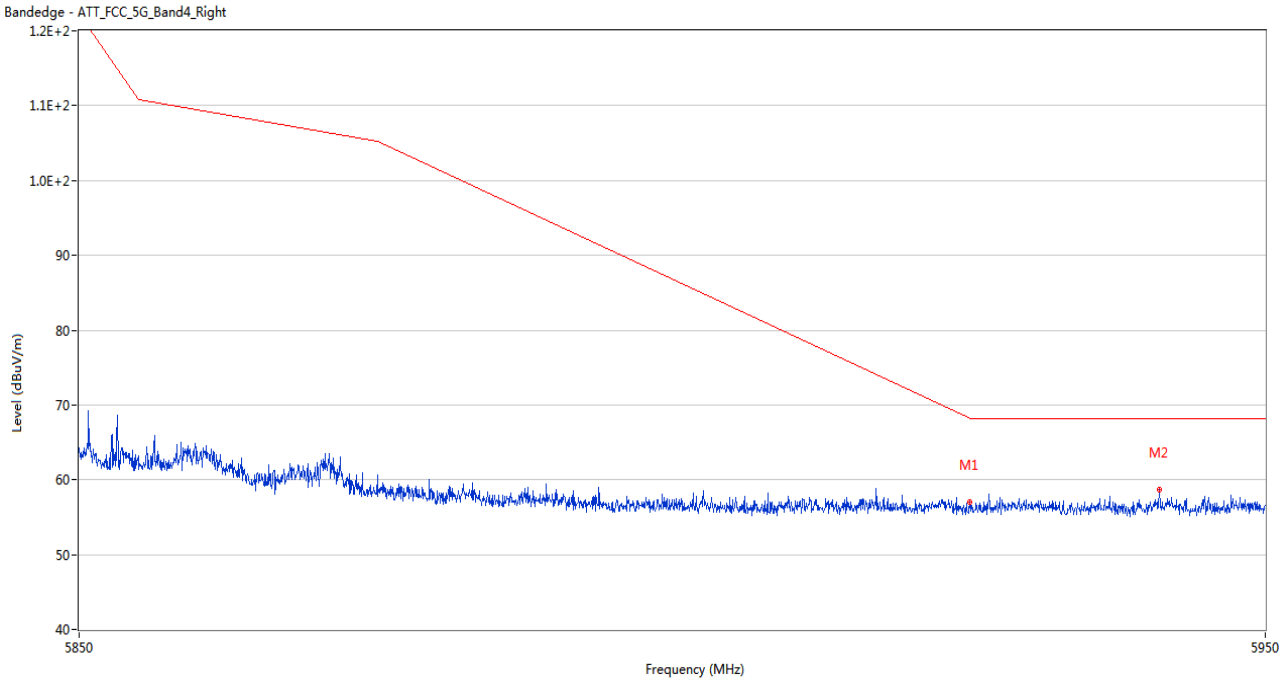
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.93	2.32	68.2	12.27	Peak	317.00	150	Horizontal	Pass
2	5945.400	58.41	2.31	68.2	9.79	Peak	278.00	200	Horizontal	Pass

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	5643.400	58.27	2.35	68.2	9.93	Peak	179.00	100	Horizontal	Pass
2	5650.000	57.12	2.54	68.2	11.08	Peak	272.00	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	56.99	2.32	68.2	11.21	Peak	285.00	200	Horizontal	Pass
2	5941.000	58.67	2.75	68.2	9.53	Peak	342.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2450413-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2450413-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2450413-AI.PDF”.

Statement

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--END OF REPORT--