TEST REPORT

Applicant:	Weibu Information Inc.
Address:	Block B, Productivity Bldg, Hi-tech Middle 2nd Rd, Hi-tech Park, Nanshan District, Shenzhen, China
Equipment Type:	Notebook
Model Name:	P116G
Brand Name:	WEIBU
FCC ID:	2A6VZ-P116G2206
Test Standard:	47 CFR Part 15 Subpart E (refer section 3.1)
Test Date:	Apr. 22, 2022 - May 17, 2022
Date of Issue:	Jun. 21, 2022

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie Zhu **Checked by:** Ye Hongji **Approved by:** Liao Jianming

(Technical Director)

Revision History

Version	Issue Date	Revisions
Rev. 01	Jun. 14, 2022	Initial Issue
Rev. 02	Jun. 21, 2022	Update Test Voltage in chapter 4.1

TABLE OF CONTENTS

1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.
Description	All measurement facilities used to collect the measurement data are located at Block B, 1/F, Baisha Science and Technology Park, Shahe West Road, Nanshan District, ShenZhen, GuangDong Province, China

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Weibu Information Inc.
Address	Block B, Productivity Bldg, Hi-tech Middle 2nd Rd, Hi-tech Park, Nanshan District, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Weibu Information Inc.
Address	Block B, Productivity Bldg, Hi-tech Middle 2nd Rd, Hi-tech Park, Nanshan District, Shenzhen, China

2.3 Factory Information

Factory	Shenzhen Yuko Technology Co., Ltd
Address	6th Floor, A9 Building and 6th Floor, A4 Building, TianRui Industrial Park, FuYuan 1st Road, XinHe Community, FuYong Street, Bao'an District, Shenzhen, Guangdong, P.R. China

2.4 General Description for Equipment under Test (EUT)

EUT Name	Notebook
Model Name Under Test	P116G
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	S116GCCR330
Software Version	Windows 11 Pro Education
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.5 Technical Information

Network and Wireless connectivity	3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/12/66/71 Bluetooth (BR+EDR+BLE) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 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
Product Type	Portable for FCC standard
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 13.43 dBm U-NII-3: 13.20 dBm
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	FPC Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 2.39 dBii U-NII-3: 5725 MHz to 5850 MHz: 2.39 dBi (In test items related to antenna gain, the final results reflect this figure. This value is provided by the applicant.)
About the Product	The equipment is Notebook, intended for used with information technology equipment.

2.6 Additional Instructions

EUT Software Settings:

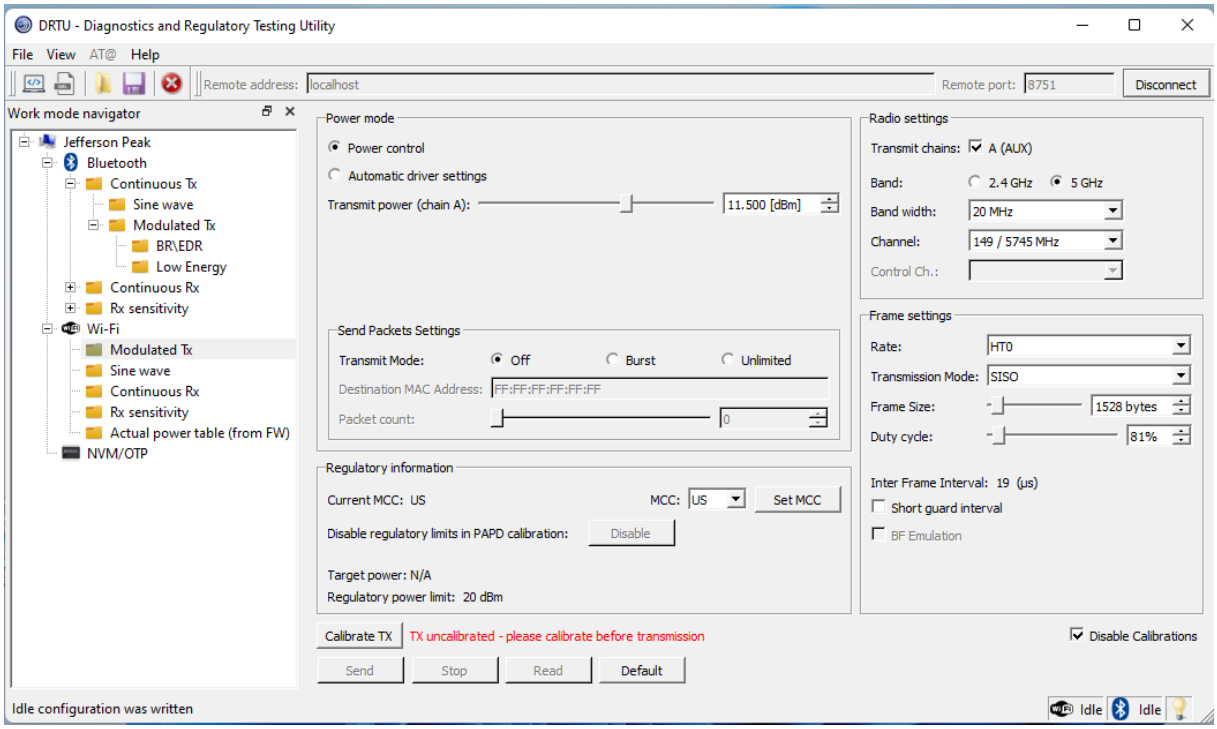
Mode	☒ Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test Software Version	DRTU		
U-NII-1 (5150 - 5250 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH36	5180	12.0
11a	CH44	5220	12.5
11a	CH48	5240	12.5
11n (HT20)	CH36	5180	11.5
11n (HT20)	CH44	5220	12.0
11n (HT20)	CH48	5240	12.0
11n (HT40)	CH38	5190	11.5
11n (HT40)	CH46	5230	11.5
11ac (VHT20)	CH36	5180	11.5
11ac (VHT20)	CH44	5220	12.0
11ac (VHT20)	CH48	5240	12.0
11ac (VHT40)	CH38	5190	11.5
11ac (VHT40)	CH46	5230	11.5
11ac (VHT80)	CH42	5210	12.0

U-NII-3 (5725 - 5850 MHz) Power level setup in software			
Mode	Channel	Frequency (MHz)	Soft Set
11a	CH149	5745	12.0
11a	CH157	5785	12.0
11a	CH165	5825	12.0
11n (HT20)	CH149	5745	11.5
11n (HT20)	CH157	5785	12.0
11n (HT20)	CH165	5825	11.5
11n (HT40)	CH151	5755	11.5
11n (HT40)	CH159	5795	11.5
11ac (VHT20)	CH149	5745	12.0
11ac (VHT20)	CH157	5785	12.0
11ac (VHT20)	CH165	5825	11.5
11ac (VHT40)	CH151	5755	11.5
11ac (VHT40)	CH159	5795	11.5
11ac (VHT80)	CH155	5775	12.0

Run Software:



2.7 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**
44	**5220**	**46**	**5230**	**155**	**5775**
48	**5240**	**151**	**5755**		
149	**5745**	**159**	**5795**		
157	**5785**				
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	U-NII-3
				Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
6 dB bandwidth	11a	6	BPSK	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	165/157/149
	11n(40 MHz)	13.5		N/A	159/151
	11ac(20 MHz)	6.5		N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	159/151
	11ac(80 MHz)	29.3		N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	165/157/149
	11n(20 MHz)	6.5		48/44/36	165/157/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/44/36	165/157/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	165/149
	11n(20 MHz)	6.5		48/36	165/149
	11n(40 MHz)	13.5		46/38	159/151
	11ac(20 MHz)	6.5		48/36	165/149
	11ac(40 MHz)	13.5		46/38	159/151
	11ac(80 MHz)	29.3		42	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

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

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass[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
8	Receiver Spurious Emissions	--	--	N/A[Note2]

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

Note [2]: Only radio communication receivers operating in stand-alone mode within the U-NII-30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, so this test is not applicable.

Note [3]: 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	45% to 55%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22℃ to +25℃
	LT (Low Temperature)	0℃
	HT (High Temperature)	+40℃
Working Voltage of the EUT	NV (Normal Voltage)	7.6 V
	LV (Low Voltage)	6.8 V
	HV (High Voltage)	8.7 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2022.01.04	2023.01.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2021.06.01	2022.05.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	142028	2021.06.01	2022.05.31
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2021.08.09	2022.08.08
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2022.02.09	2023.02.08
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2021.08.24	2022.08.23
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2021.06.01	2022.05.31
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2021.09.13	2022.09.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2021.10.10	2022.10.09
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2021.06.08	2022.06.07
LISN	SCHWARZBECK	NSLK 8127	8127-687	2021.04.16	2024.04.15
Test Antenna-Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2021.08.20	2024.08.19
Test Antenna-Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2019.07.02	2022.07.01
Test Antenna-Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1917	2021.07.02	2023.07.01
Test Antenna-Horn (18-40 GHz)	A-INFO	LB-180400KF	J211060273	2022.02.19	2024.09.03
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2021.09.04	2024.09.09
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2021.08.15	2024.08.14
Shielded Enclosure	ChangNing	CN-130701	130703	--	--

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

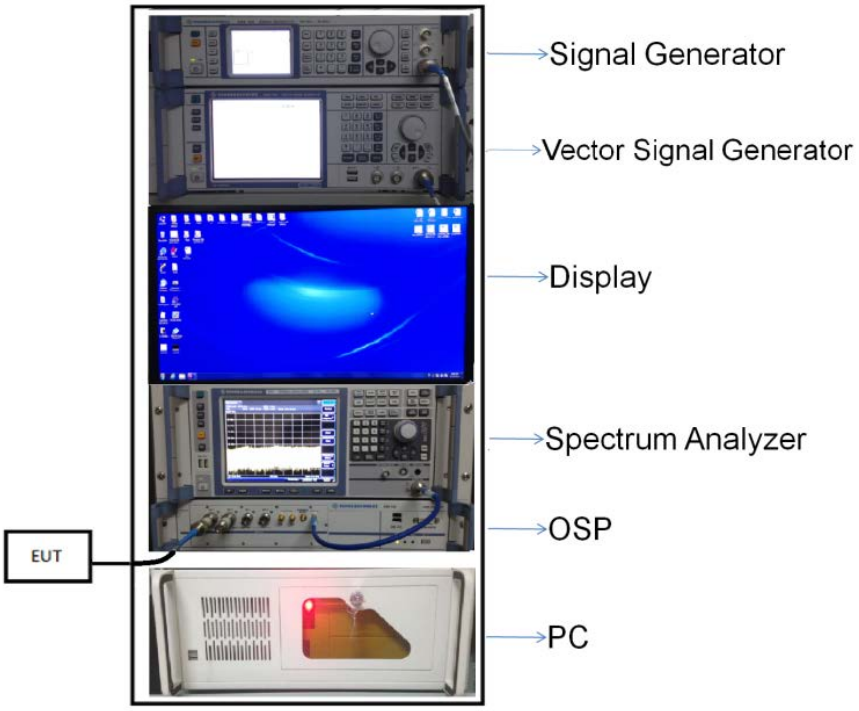
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.82°C
Humidity	4.1%

4.5 Description of Test Setup

4.5.1 For Antenna Port Test

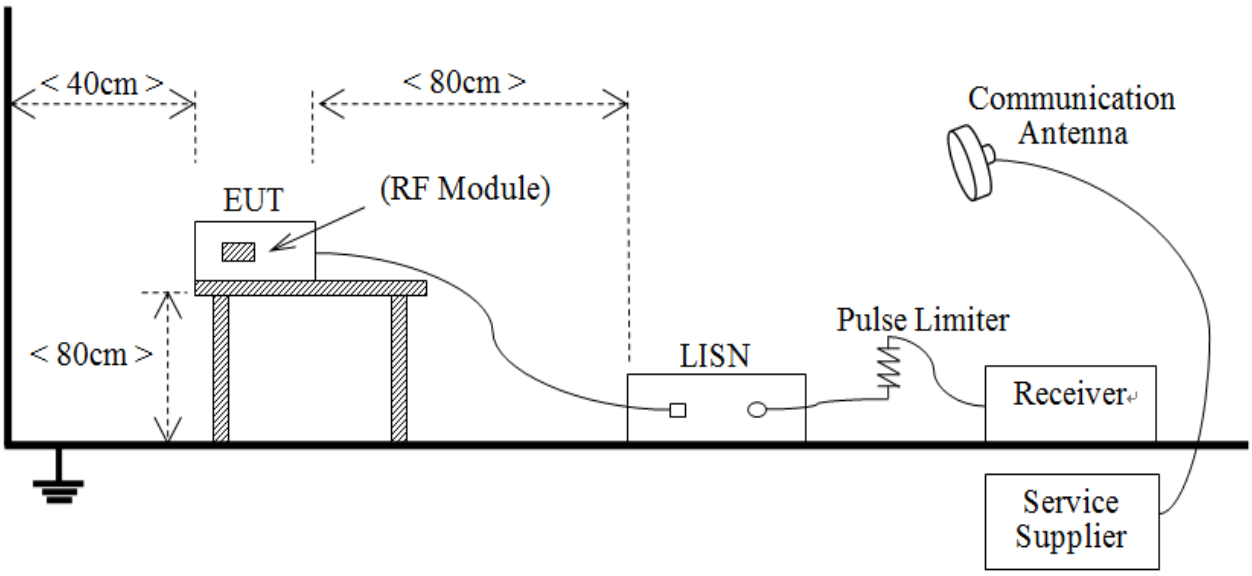
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:
Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



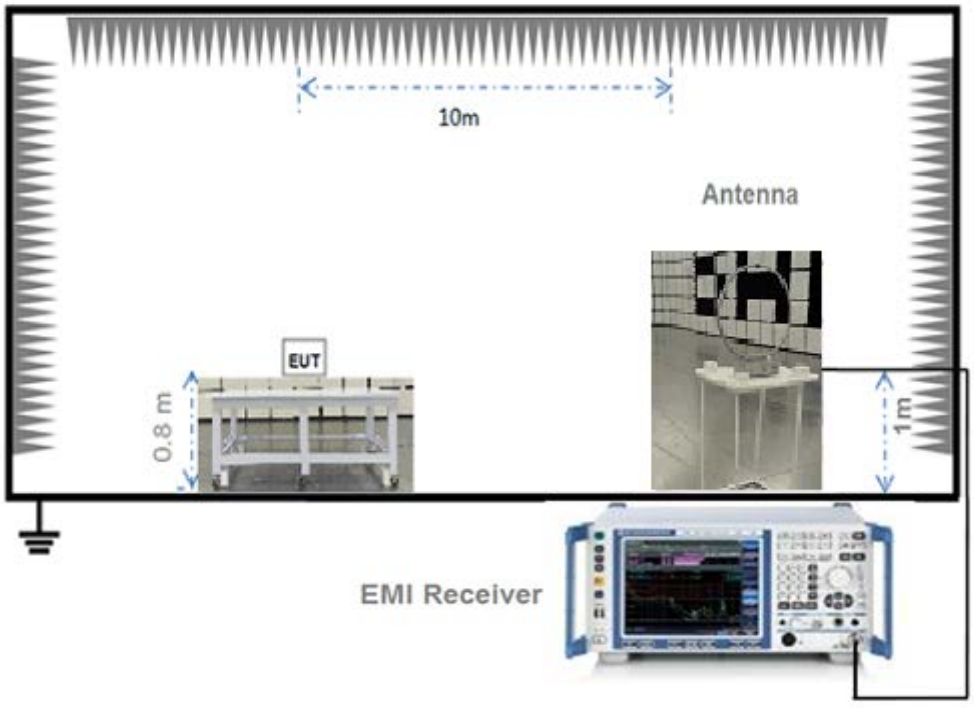
(Diagram 1)

4.5.2 For AC Power Supply Port Test



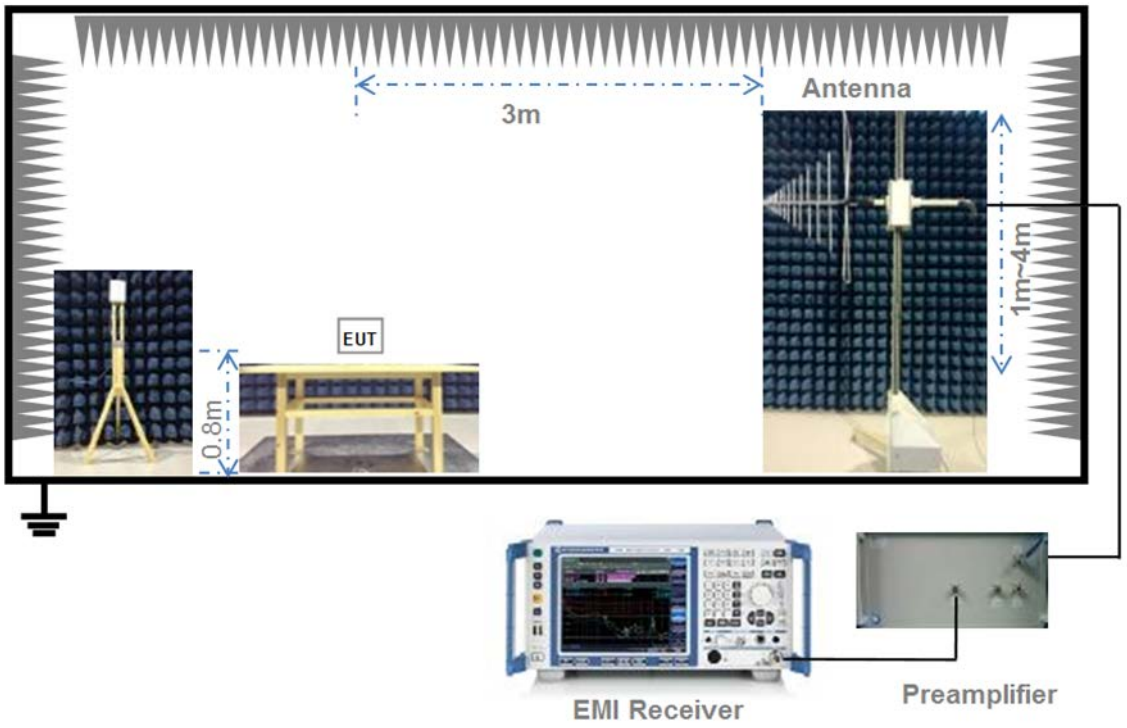
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



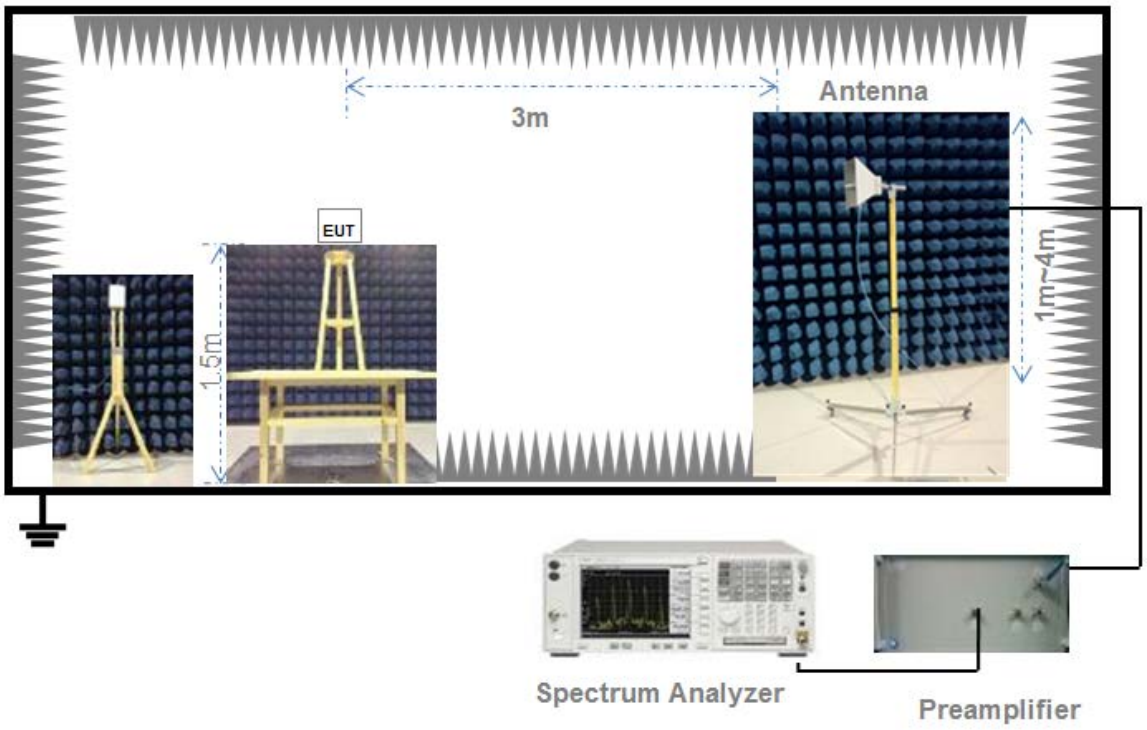
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

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

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

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

1. Set RBW = approximately 1% of the emission bandwidth.

2. Set VBW ≥ 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)

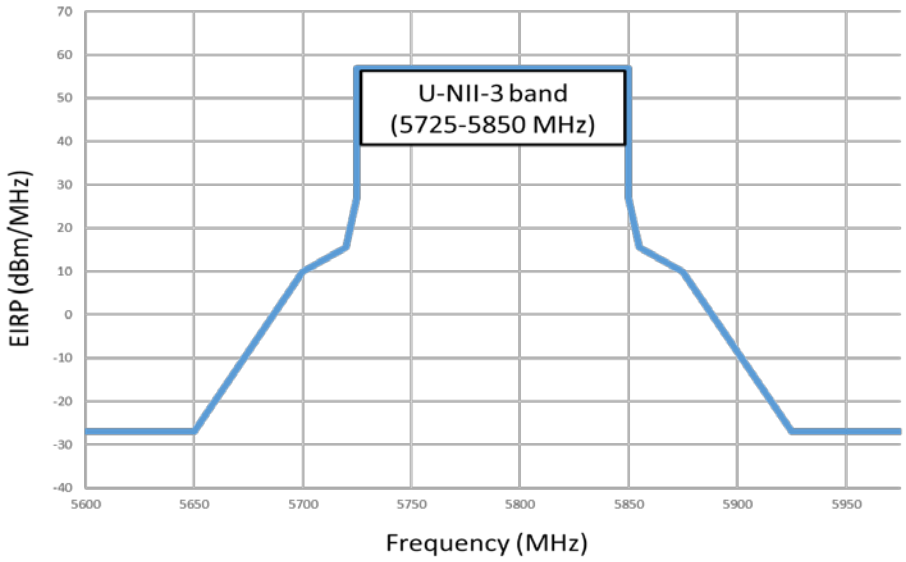
5.5.1 Limit

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 maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)

c) 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).

d) 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).

e) 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.

f) Compare the resultant electric field strength level to the applicable limit.

g) 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 [1]: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	2.05	2.09	97.87%
11n (HT20)/11ac (VHT20)	1.92	1.96	97.72%
11n (HT40)/11ac (VHT40)	0.94	0.98	95.42%
11ac (VHT80)	0.46	0.51	90.99%

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.43	22.03	250	Pass
11a	CH44	13.35	21.63	250	Pass
11a	CH48	13.41	21.93	250	Pass
11n (HT20)	CH36	12.95	19.72	250	Pass
11n (HT20)	CH44	12.88	19.41	250	Pass
11n (HT20)	CH48	12.91	19.54	250	Pass
11n (HT40)	CH38	12.91	19.54	250	Pass
11n (HT40)	CH46	12.69	18.58	250	Pass
11ac (VHT20)	CH36	12.83	19.19	250	Pass
11ac (VHT20)	CH44	12.87	19.36	250	Pass
11ac (VHT20)	CH48	12.91	19.54	250	Pass
11ac (VHT40)	CH38	12.95	19.72	250	Pass
11ac (VHT40)	CH46	12.78	18.97	250	Pass
11ac (VHT80)	CH42	12.95	19.72	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.16	20.70	1000	Pass
11a	CH157	13.14	20.61	1000	Pass
11a	CH165	13.20	20.89	1000	Pass
11n (HT20)	CH149	12.61	18.24	1000	Pass
11n (HT20)	CH157	12.92	19.59	1000	Pass
11n (HT20)	CH165	12.72	18.71	1000	Pass
11n (HT40)	CH151	12.79	19.01	1000	Pass
11n (HT40)	CH159	12.71	18.66	1000	Pass
11ac (VHT20)	CH149	12.78	18.97	1000	Pass
11ac (VHT20)	CH157	12.97	19.82	1000	Pass
11ac (VHT20)	CH165	12.66	18.45	1000	Pass
11ac (VHT40)	CH151	12.73	18.75	1000	Pass
11ac (VHT40)	CH159	12.71	18.66	1000	Pass
11ac (VHT80)	CH155	12.87	19.36	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2240596-604 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	24.00	16.90
11a	CH44	23.88	16.96
11a	CH48	23.52	16.96
11n (HT20)	CH36	24.32	17.95
11n (HT20)	CH44	24.00	18.00
11n (HT20)	CH48	24.32	17.95
11n (HT40)	CH38	44.90	36.70
11n (HT40)	CH46	45.00	36.70
11ac (VHT20)	CH36	24.36	18.00
11ac (VHT20)	CH44	24.28	17.95
11ac (VHT20)	CH48	24.28	17.95
11ac (VHT40)	CH38	45.00	36.82
11ac (VHT40)	CH46	45.30	36.82
11ac (VHT80)	CH42	84.80	75.25

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	23.68	16.90
11a	CH157	23.48	16.90
11a	CH165	23.88	16.96
11n (HT20)	CH149	23.72	18.00
11n (HT20)	CH157	24.16	18.00
11n (HT20)	CH165	24.04	18.00
11n (HT40)	CH151	45.00	36.70
11n (HT40)	CH159	45.60	36.82
11ac (VHT20)	CH149	24.24	18.00
11ac (VHT20)	CH157	24.04	17.95
11ac (VHT20)	CH165	24.16	18.00
11ac (VHT40)	CH151	44.70	36.70
11ac (VHT40)	CH159	45.10	36.82
11ac (VHT80)	CH155	85.20	75.25

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2240596-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.42	500.00	Pass
11a	CH157	16.42	500.00	Pass
11a	CH165	16.42	500.00	Pass
11n (HT20)	CH149	17.72	500.00	Pass
11n (HT20)	CH157	17.72	500.00	Pass
11n (HT20)	CH165	17.72	500.00	Pass
11n (HT40)	CH151	36.42	500.00	Pass
11n (HT40)	CH159	36.42	500.00	Pass
11ac (VHT20)	CH149	17.67	500.00	Pass
11ac (VHT20)	CH157	17.72	500.00	Pass
11ac (VHT20)	CH165	17.67	500.00	Pass
11ac (VHT40)	CH151	36.42	500.00	Pass
11ac (VHT40)	CH159	36.42	500.00	Pass
11ac (VHT80)	CH155	75.22	500.00	Pass

A.4 Power Spectral Density

Note [1]: Test plots please refer to the document “Annex No.: BL-SZ2240596-604 Data Part 3.pdf”.
Note [2]: The RBW used in U-NII-3 is 1 MHz, and the PSD factor is: 10*log (500 kHz/RBW) =-3 dBm.
Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	0.77	11.00	Pass
11a	CH44	-0.18	11.00	Pass
11a	CH48	-0.47	11.00	Pass
11n (HT20)	CH36	-0.87	11.00	Pass
11n (HT20)	CH44	-1.49	11.00	Pass
11n (HT20)	CH48	0.72	11.00	Pass
11n (HT40)	CH38	-2.53	11.00	Pass
11n (HT40)	CH46	-2.86	11.00	Pass
11ac (VHT20)	CH36	-1.38	11.00	Pass
11ac (VHT20)	CH44	-1.84	11.00	Pass
11ac (VHT20)	CH48	0.71	11.00	Pass
11ac (VHT40)	CH38	-2.59	11.00	Pass
11ac (VHT40)	CH46	-4.34	11.00	Pass
11ac (VHT80)	CH42	-9.13	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-2.36	30.00	Pass
11a	CH157	-1.89	30.00	Pass
11a	CH165	-1.84	30.00	Pass
11n (HT20)	CH149	-3.28	30.00	Pass
11n (HT20)	CH157	-2.56	30.00	Pass
11n (HT20)	CH165	-2.86	30.00	Pass
11n (HT40)	CH151	-6.27	30.00	Pass
11n (HT40)	CH159	-6.22	30.00	Pass
11ac (VHT20)	CH149	-3.43	30.00	Pass
11ac (VHT20)	CH157	-2.29	30.00	Pass
11ac (VHT20)	CH165	-2.86	30.00	Pass
11ac (VHT40)	CH151	-6.26	30.00	Pass
11ac (VHT40)	CH159	-6.39	30.00	Pass
11ac (VHT80)	CH155	-9.15	30.00	Pass

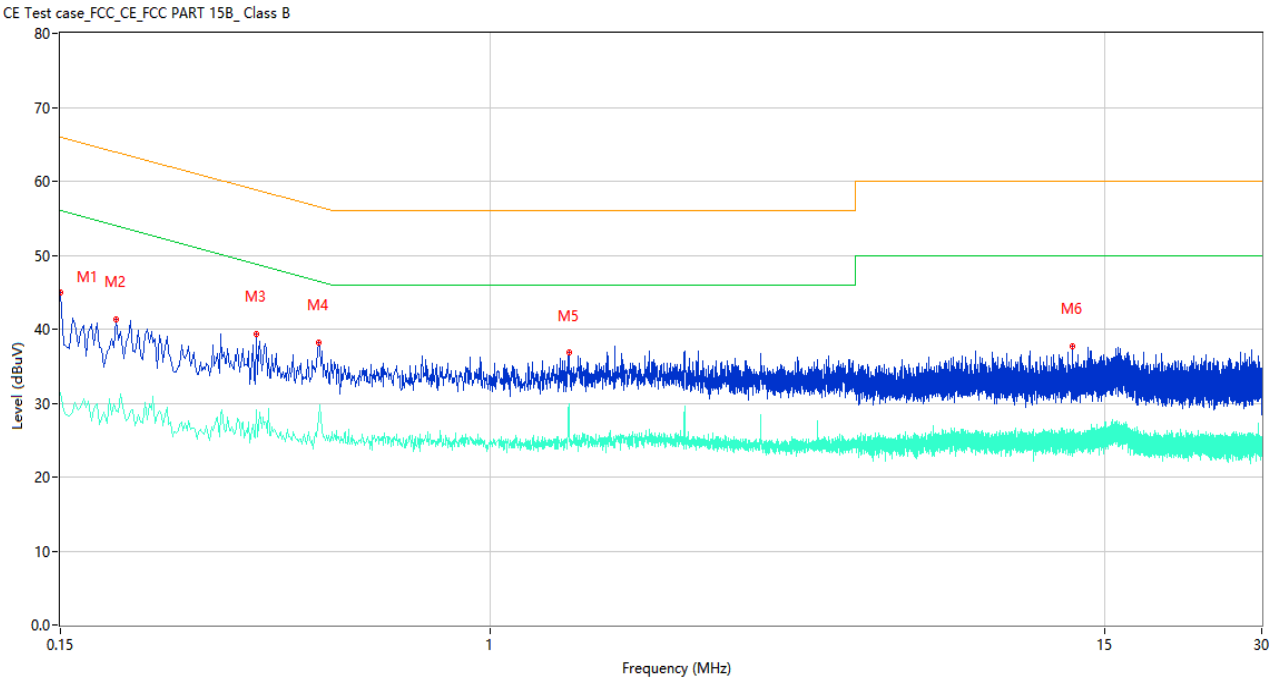
A.5 Conducted Emissions

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.

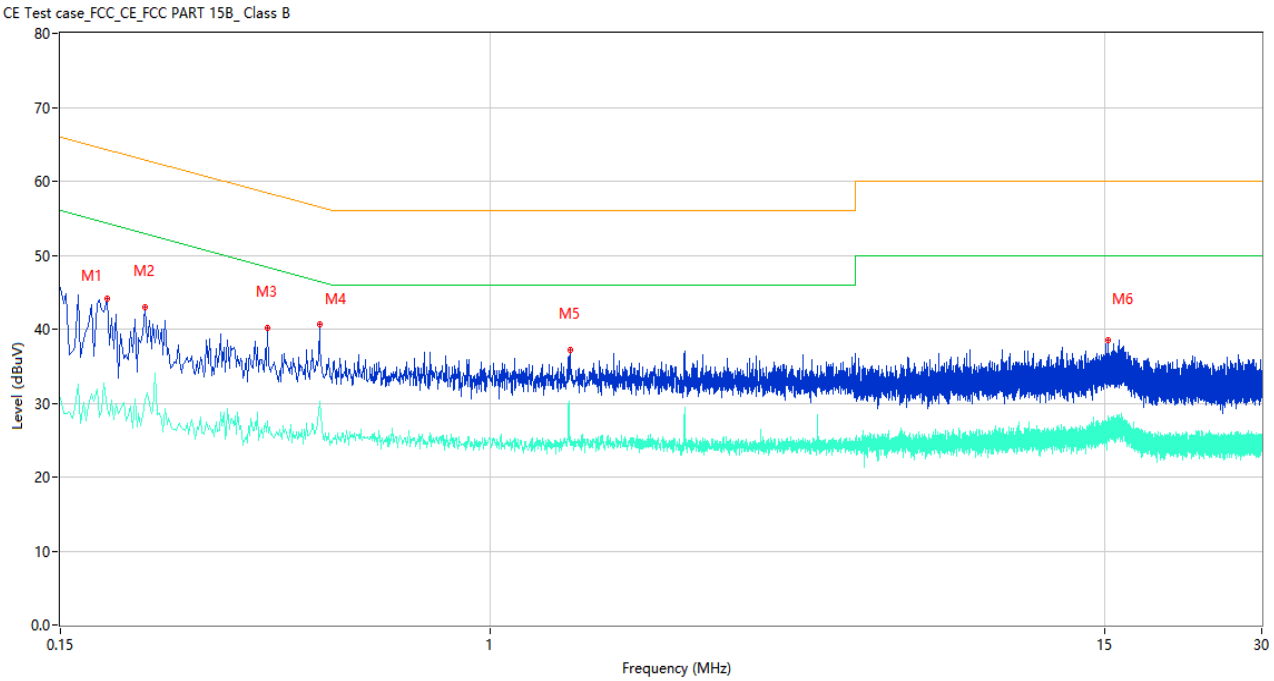
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.150	44.93	11.00	66.00	-21.07	Peak	L	Pass
1**	0.150	31.44	11.00	56.00	-24.56	AV	L	Pass
2	0.192	41.37	10.96	63.95	-22.58	Peak	L	Pass
2**	0.192	28.93	10.96	53.95	-25.02	AV	L	Pass
3	0.356	39.38	10.89	58.82	-19.44	Peak	L	Pass
3**	0.356	29.10	10.89	48.82	-19.72	AV	L	Pass
4	0.468	38.23	10.91	56.55	-18.32	Peak	L	Pass
4**	0.468	27.92	10.91	46.55	-18.63	AV	L	Pass
5	1.412	36.82	10.72	56.00	-19.18	Peak	L	Pass
5**	1.412	29.87	10.72	46.00	-16.13	AV	L	Pass
6	13.000	37.69	10.67	60.00	-22.31	Peak	L	Pass
6**	13.000	26.04	10.67	50.00	-23.96	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.184	44.08	10.97	64.30	-20.22	Peak	N	Pass
1**	0.184	29.25	10.97	54.30	-25.05	AV	N	Pass
2	0.218	42.92	10.94	62.89	-19.97	Peak	N	Pass
2**	0.218	30.46	10.94	52.89	-22.43	AV	N	Pass
3	0.374	40.11	10.90	58.41	-18.30	Peak	N	Pass
3**	0.374	27.66	10.90	48.41	-20.75	AV	N	Pass
4	0.470	40.63	10.92	56.51	-15.88	Peak	N	Pass
4**	0.470	29.60	10.92	46.51	-16.91	AV	N	Pass
5	1.420	37.13	10.72	56.00	-18.87	Peak	N	Pass
5**	1.420	24.26	10.72	46.00	-21.74	AV	N	Pass
6	15.266	38.44	10.60	60.00	-21.56	Peak	N	Pass
6**	15.266	27.66	10.60	50.00	-22.34	AV	N	Pass

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

Test Data

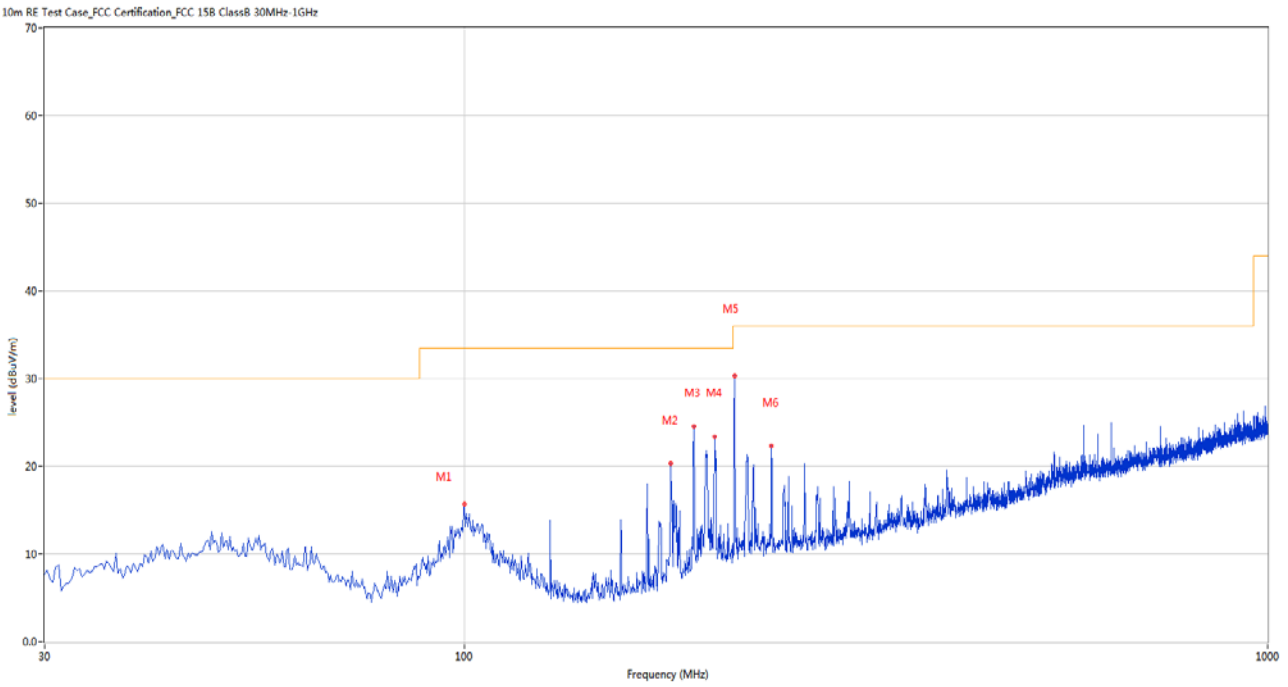
Note [1]: The symbol of “--” in the table which means not application.

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.

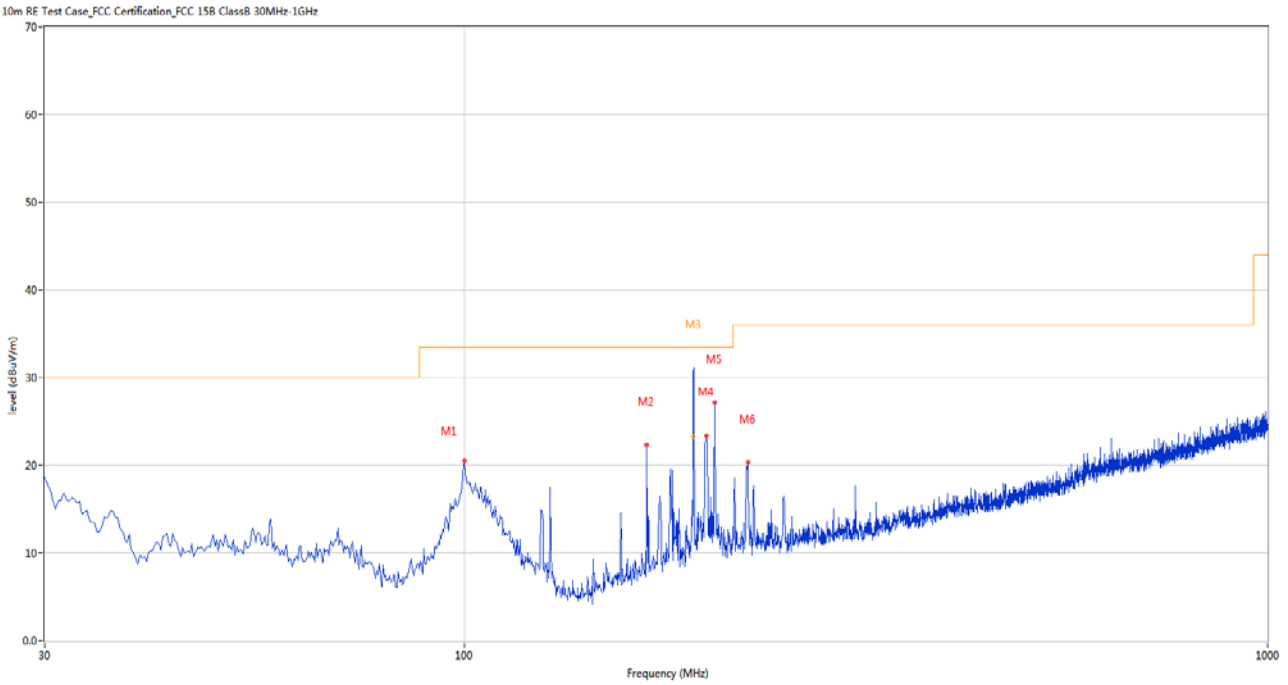
Note [4]: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	100.065	15.66	-27.99	33.5	-17.84	Peak	149.00	200	Horizontal	Pass
2	180.797	20.30	-29.71	33.5	-13.20	Peak	129.00	200	Horizontal	Pass
3	193.162	24.51	-28.29	33.5	-8.99	Peak	280.00	200	Horizontal	Pass
4	205.041	23.42	-27.81	33.5	-10.08	Peak	300.00	200	Horizontal	Pass
5	216.921	30.33	-27.82	36.0	-5.67	Peak	300.00	200	Horizontal	Pass
6	241.165	22.29	-26.59	36.0	-13.71	Peak	99.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	100.065	20.48	-27.99	33.5	-13.02	Peak	120.00	100	Vertical	Pass
2	168.675	22.30	-30.37	33.5	-11.20	Peak	35.00	100	Vertical	Pass
3	192.812	31.64	-28.30	33.5	-1.86	Peak	35.00	104	Vertical	N/A
3*	192.812	23.23	-28.30	33.5	-10.27	QP	35.00	104	Vertical	Pass
4	199.950	23.37	-27.63	33.5	-10.13	Peak	95.00	100	Vertical	Pass
5	204.799	27.13	-27.82	33.5	-6.37	Peak	0.00	100	Vertical	Pass
6	225.164	20.29	-27.22	36.0	-15.71	Peak	342.00	100	Vertical	Pass

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1550.200	41.21	-19.74	74.0	-32.79	Peak	333.00	150	Horizontal	Pass
1**	1550.200	30.76	-19.74	54.0	-23.24	AV	333.00	150	Horizontal	Pass
2	2788.500	43.51	-10.44	74.0	-30.49	Peak	213.00	150	Horizontal	Pass
2**	2788.500	34.60	-10.44	54.0	-19.40	AV	213.00	150	Horizontal	Pass
3	3851.750	46.66	-7.53	74.0	-27.34	Peak	346.00	150	Horizontal	Pass
3**	3851.750	36.85	-7.53	54.0	-17.15	AV	346.00	150	Horizontal	Pass
4	5177.500	99.20	-4.44	--	--	Peak	178.00	150	Horizontal	N/A
4**	5177.500	91.36	-4.44	--	--	AV	178.00	150	Horizontal	N/A
5	12302.788	52.86	0.66	74.0	-21.14	Peak	88.00	150	Horizontal	Pass
5**	12302.788	42.81	0.66	54.0	-11.19	AV	88.00	150	Horizontal	Pass
6	17788.688	47.96	6.19	74.0	-26.04	Peak	360.00	150	Horizontal	Pass
6**	17788.688	39.71	6.19	54.0	-14.29	AV	360.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1619.600	41.58	-19.32	74.0	-32.42	Peak	296.00	150	Vertical	Pass
1**	1619.600	32.38	-19.32	54.0	-21.62	AV	296.00	150	Vertical	Pass
2	2782.900	43.68	-9.58	74.0	-30.32	Peak	135.00	150	Vertical	Pass
2**	2782.900	35.50	-9.58	54.0	-18.50	AV	135.00	150	Vertical	Pass
3	4031.750	45.88	-6.42	74.0	-28.12	Peak	9.00	150	Vertical	Pass
3**	4031.750	36.78	-6.42	54.0	-17.22	AV	9.00	150	Vertical	Pass
4	5184.500	100.20	-4.28	--	--	Peak	170.00	150	Vertical	N/A
4**	5184.500	92.09	-4.28	--	--	AV	170.00	150	Vertical	N/A
5	12581.613	52.61	1.32	74.0	-21.39	Peak	5.00	150	Vertical	Pass
5**	12581.613	44.75	1.32	54.0	-9.25	AV	5.00	150	Vertical	Pass
6	17797.876	47.70	6.46	74.0	-26.30	Peak	186.00	150	Vertical	Pass
6**	17797.876	41.11	6.46	54.0	-12.89	AV	186.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1519.300	40.64	-19.13	74.0	-33.36	Peak	348.00	150	Horizontal	Pass
1**	1519.300	31.60	-19.13	54.0	-22.40	AV	348.00	150	Horizontal	Pass
2	2777.200	43.69	-10.26	74.0	-30.31	Peak	360.00	150	Horizontal	Pass
2**	2777.200	34.51	-10.26	54.0	-19.49	AV	360.00	150	Horizontal	Pass
3	4031.750	46.16	-6.42	74.0	-27.84	Peak	257.00	150	Horizontal	Pass
3**	4031.750	36.88	-6.42	54.0	-17.12	AV	257.00	150	Horizontal	Pass
4	5224.000	99.88	-5.04	--	--	Peak	186.00	150	Horizontal	N/A
4**	5224.000	92.82	-5.04	--	--	AV	186.00	150	Horizontal	N/A
5	12338.650	52.20	0.72	74.0	-21.80	Peak	203.00	150	Horizontal	Pass
5**	12338.650	43.61	0.72	54.0	-10.39	AV	203.00	150	Horizontal	Pass
6	17788.688	47.75	6.19	74.0	-26.25	Peak	199.00	150	Horizontal	Pass
6**	17788.688	39.95	6.19	54.0	-14.05	AV	199.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1525.100	39.90	-19.11	74.0	-34.10	Peak	253.00	150	Vertical	Pass
1**	1525.100	29.16	-19.11	54.0	-24.84	AV	253.00	150	Vertical	Pass
2	2785.100	43.29	-9.97	74.0	-30.71	Peak	113.00	150	Vertical	Pass
2**	2785.100	35.13	-9.97	54.0	-18.87	AV	113.00	150	Vertical	Pass
3	4122.750	46.13	-6.69	74.0	-27.87	Peak	326.00	150	Vertical	Pass
3**	4122.750	37.50	-6.69	54.0	-16.50	AV	326.00	150	Vertical	Pass
4	5222.500	99.69	-4.97	--	--	Peak	93.00	150	Vertical	N/A
4**	5222.500	91.85	-4.97	--	--	AV	93.00	150	Vertical	N/A
5	12422.487	52.79	0.57	74.0	-21.21	Peak	255.00	150	Vertical	Pass
5**	12422.487	43.36	0.57	54.0	-10.64	AV	255.00	150	Vertical	Pass
6	17792.625	47.14	6.30	74.0	-26.86	Peak	331.00	150	Vertical	Pass
6**	17792.625	39.50	6.30	54.0	-14.50	AV	331.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1020.200	41.16	-19.99	74.0	-32.84	Peak	260.00	150	Horizontal	Pass
1**	1020.200	32.26	-19.99	54.0	-21.74	AV	260.00	150	Horizontal	Pass
2	2786.600	44.41	-9.92	74.0	-29.59	Peak	132.00	150	Horizontal	Pass
2**	2786.600	34.65	-9.92	54.0	-19.35	AV	132.00	150	Horizontal	Pass
3	4339.750	47.57	-5.84	74.0	-26.43	Peak	0.00	150	Horizontal	Pass
3**	4339.750	38.25	-5.84	54.0	-15.75	AV	0.00	150	Horizontal	Pass
4	5245.000	98.14	-5.10	--	--	Peak	0.00	150	Horizontal	N/A
4**	5245.000	90.71	-5.10	--	--	AV	0.00	150	Horizontal	N/A
5	12578.525	52.96	1.35	74.0	-21.04	Peak	315.00	150	Horizontal	Pass
5**	12578.525	43.76	1.35	54.0	-10.24	AV	315.00	150	Horizontal	Pass
6	15711.000	44.81	2.57	74.0	-29.19	Peak	237.00	150	Horizontal	Pass
6**	15711.000	36.18	2.57	54.0	-17.82	AV	237.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1200.600	39.32	-19.66	74.0	-34.68	Peak	289.00	100	Vertical	Pass
1**	1200.600	29.27	-19.66	54.0	-24.73	AV	289.00	100	Vertical	Pass
2	1581.400	40.29	-19.63	74.0	-33.71	Peak	281.00	100	Vertical	Pass
2**	1581.400	28.60	-19.63	54.0	-25.40	AV	281.00	100	Vertical	Pass
3	4651.750	48.51	-5.06	74.0	-25.49	Peak	276.00	100	Vertical	Pass
3**	4651.750	38.91	-5.06	54.0	-15.09	AV	276.00	100	Vertical	Pass
4	5236.750	98.86	-5.48	--	--	Peak	101.00	100	Vertical	N/A
4**	5236.750	90.92	-5.48	--	--	AV	101.00	100	Vertical	N/A
5	12401.825	52.47	0.33	74.0	-21.53	Peak	287.00	100	Vertical	Pass
5**	12401.825	42.91	0.33	54.0	-11.09	AV	287.00	100	Vertical	Pass
6	16129.688	45.18	1.35	74.0	-28.82	Peak	164.00	100	Vertical	Pass
6**	16129.688	37.04	1.35	54.0	-16.96	AV	164.00	100	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.400	41.23	-19.68	74.0	-32.77	Peak	269.00	150	Horizontal	Pass
1**	1030.400	34.18	-19.68	54.0	-19.82	AV	269.00	150	Horizontal	Pass
2	1513.100	40.05	-19.22	74.0	-33.95	Peak	344.00	150	Horizontal	Pass
2**	1513.100	29.47	-19.22	54.0	-24.53	AV	344.00	150	Horizontal	Pass
3	2774.600	43.97	-10.85	74.0	-30.03	Peak	201.00	150	Horizontal	Pass
3**	2774.600	34.24	-10.85	54.0	-19.76	AV	201.00	150	Horizontal	Pass
4	5172.750	98.51	-3.97	--	--	Peak	190.00	150	Horizontal	N/A
4**	5172.750	90.77	-3.97	--	--	AV	190.00	150	Horizontal	N/A
5	12461.200	52.46	0.80	74.0	-21.54	Peak	245.00	150	Horizontal	Pass
5**	12461.200	43.70	0.80	54.0	-10.30	AV	245.00	150	Horizontal	Pass
6	15909.188	44.91	2.56	74.0	-29.09	Peak	175.00	150	Horizontal	Pass
6**	15909.188	37.04	2.56	54.0	-16.96	AV	175.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1033.800	39.71	-19.60	74.0	-34.29	Peak	63.00	150	Vertical	Pass
1**	1033.800	30.95	-19.60	54.0	-23.05	AV	63.00	150	Vertical	Pass
2	2783.100	44.55	-9.34	74.0	-29.45	Peak	314.00	150	Vertical	Pass
2**	2783.100	36.02	-9.34	54.0	-17.98	AV	314.00	150	Vertical	Pass
3	4974.000	49.72	-3.61	74.0	-24.28	Peak	349.00	150	Vertical	Pass
3**	4974.000	40.18	-3.61	54.0	-13.82	AV	349.00	150	Vertical	Pass
4	5185.500	98.59	-4.39	--	--	Peak	244.00	150	Vertical	N/A
4**	5185.500	91.63	-4.39	--	--	AV	244.00	150	Vertical	N/A
5	12365.013	52.90	0.61	74.0	-21.10	Peak	242.00	150	Vertical	Pass
5**	12365.013	43.88	0.61	54.0	-10.12	AV	242.00	150	Vertical	Pass
6	15923.625	45.47	2.66	74.0	-28.53	Peak	72.00	150	Vertical	Pass
6**	15923.625	36.41	2.66	54.0	-17.59	AV	72.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1020.200	41.44	-19.99	74.0	-32.56	Peak	259.00	150	Horizontal	Pass
1**	1020.200	32.72	-19.99	54.0	-21.28	AV	259.00	150	Horizontal	Pass
2	2783.000	44.07	-9.46	74.0	-29.93	Peak	344.00	150	Horizontal	Pass
2**	2783.000	34.93	-9.46	54.0	-19.07	AV	344.00	150	Horizontal	Pass
3	4339.000	47.79	-5.65	74.0	-26.21	Peak	293.00	150	Horizontal	Pass
3**	4339.000	38.06	-5.65	54.0	-15.94	AV	293.00	150	Horizontal	Pass
4	5223.000	98.35	-4.86	--	--	Peak	205.00	150	Horizontal	N/A
4**	5223.000	91.08	-4.86	--	--	AV	205.00	150	Horizontal	N/A
5	12551.213	53.18	1.60	74.0	-20.82	Peak	235.00	150	Horizontal	Pass
5**	12551.213	43.60	1.60	54.0	-10.40	AV	235.00	150	Horizontal	Pass
6	15549.563	45.19	1.73	74.0	-28.81	Peak	298.00	150	Horizontal	Pass
6**	15549.563	38.16	1.73	54.0	-15.84	AV	298.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1036.500	39.62	-20.11	74.0	-34.38	Peak	58.00	150	Vertical	Pass
1**	1036.500	30.77	-20.11	54.0	-23.23	AV	58.00	150	Vertical	Pass
2	2785.100	44.12	-9.97	74.0	-29.88	Peak	108.00	150	Vertical	Pass
2**	2785.100	35.09	-9.97	54.0	-18.91	AV	108.00	150	Vertical	Pass
3	4960.250	49.56	-3.49	74.0	-24.44	Peak	259.00	150	Vertical	Pass
3**	4960.250	40.80	-3.49	54.0	-13.20	AV	259.00	150	Vertical	Pass
4	5225.750	99.17	-4.72	--	--	Peak	102.00	150	Vertical	N/A
4**	5225.750	91.63	-4.72	--	--	AV	102.00	150	Vertical	N/A
5	12304.451	52.74	0.66	74.0	-21.26	Peak	97.00	150	Vertical	Pass
5**	12304.451	43.16	0.66	54.0	-10.84	AV	97.00	150	Vertical	Pass
6	15489.188	45.10	2.76	74.0	-28.90	Peak	49.00	150	Vertical	Pass
6**	15489.188	37.42	2.76	54.0	-16.58	AV	49.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1031.100	41.00	-20.32	74.0	-33.00	Peak	241.00	150	Horizontal	Pass
1**	1031.100	32.31	-20.32	54.0	-21.69	AV	241.00	150	Horizontal	Pass
2	2783.100	44.68	-9.34	74.0	-29.32	Peak	12.00	150	Horizontal	Pass
2**	2783.100	35.43	-9.34	54.0	-18.57	AV	12.00	150	Horizontal	Pass
3	4755.000	49.05	-5.43	74.0	-24.95	Peak	332.00	150	Horizontal	Pass
3**	4755.000	39.04	-5.43	54.0	-14.96	AV	332.00	150	Horizontal	Pass
4	5242.500	97.49	-5.17	--	--	Peak	209.00	150	Horizontal	N/A
4**	5242.500	89.54	-5.17	--	--	AV	209.00	150	Horizontal	N/A
5	12441.250	52.66	0.79	74.0	-21.34	Peak	214.00	150	Horizontal	Pass
5**	12441.250	42.41	0.79	54.0	-11.59	AV	214.00	150	Horizontal	Pass
6	15487.875	45.03	2.78	74.0	-28.97	Peak	303.00	150	Horizontal	Pass
6**	15487.875	38.20	2.78	54.0	-15.80	AV	303.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1032.700	41.20	-19.85	74.0	-32.80	Peak	58.00	150	Vertical	Pass
1**	1032.700	31.58	-19.85	54.0	-22.42	AV	58.00	150	Vertical	Pass
2	2785.600	44.38	-10.09	74.0	-29.62	Peak	269.00	150	Vertical	Pass
2**	2785.600	35.08	-10.09	54.0	-18.92	AV	269.00	150	Vertical	Pass
3	4972.500	49.37	-3.27	74.0	-24.63	Peak	122.00	150	Vertical	Pass
3**	4972.500	40.94	-3.27	54.0	-13.06	AV	122.00	150	Vertical	Pass
4	5245.000	98.13	-5.10	--	--	Peak	209.00	150	Vertical	N/A
4**	5245.000	90.62	-5.10	--	--	AV	209.00	150	Vertical	N/A
5	12336.275	52.89	0.71	74.0	-21.11	Peak	29.00	150	Vertical	Pass
5**	12336.275	43.15	0.71	54.0	-10.85	AV	29.00	150	Vertical	Pass
6	15889.500	44.63	2.12	74.0	-29.37	Peak	237.00	150	Vertical	Pass
6**	15889.500	36.85	2.12	54.0	-17.15	AV	237.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.400	41.49	-19.68	74.0	-32.51	Peak	265.00	150	Horizontal	Pass
1**	1030.400	32.50	-19.68	54.0	-21.50	AV	265.00	150	Horizontal	Pass
2	2779.000	43.58	-10.40	74.0	-30.42	Peak	240.00	150	Horizontal	Pass
2**	2779.000	35.02	-10.40	54.0	-18.98	AV	240.00	150	Horizontal	Pass
3	4958.000	50.28	-3.51	74.0	-23.72	Peak	89.00	150	Horizontal	Pass
3**	4958.000	41.90	-3.51	54.0	-12.10	AV	89.00	150	Horizontal	Pass
4	5198.250	95.44	-4.57	--	--	Peak	201.00	150	Horizontal	N/A
4**	5198.250	87.18	-4.57	--	--	AV	201.00	150	Horizontal	N/A
5	12553.113	52.73	1.58	74.0	-21.27	Peak	172.00	150	Horizontal	Pass
5**	12553.113	42.93	1.58	54.0	-11.07	AV	172.00	150	Horizontal	Pass
6	15483.938	44.66	2.81	74.0	-29.34	Peak	282.00	150	Horizontal	Pass
6**	15483.938	38.05	2.81	54.0	-15.95	AV	282.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1013.800	39.95	-19.75	74.0	-34.05	Peak	55.00	150	Vertical	Pass
1**	1013.800	30.70	-19.75	54.0	-23.30	AV	55.00	150	Vertical	Pass
2	2783.300	44.30	-9.74	74.0	-29.70	Peak	131.00	150	Vertical	Pass
2**	2783.300	35.53	-9.74	54.0	-18.47	AV	131.00	150	Vertical	Pass
3	4972.500	50.22	-3.27	74.0	-23.78	Peak	87.00	150	Vertical	Pass
3**	4972.500	40.48	-3.27	54.0	-13.52	AV	87.00	150	Vertical	Pass
4	5204.000	95.88	-4.60	--	--	Peak	246.00	150	Vertical	N/A
4**	5204.000	88.23	-4.60	--	--	AV	246.00	150	Vertical	N/A
5	12550.263	52.34	1.61	74.0	-21.66	Peak	244.00	150	Vertical	Pass
5**	12550.263	43.75	1.61	54.0	-10.25	AV	244.00	150	Vertical	Pass
6	15707.062	44.56	2.66	74.0	-29.44	Peak	128.00	150	Vertical	Pass
6**	15707.062	36.46	2.66	54.0	-17.54	AV	128.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.200	40.92	-19.97	74.0	-33.08	Peak	248.00	150	Horizontal	Pass
1**	1030.200	33.44	-19.97	54.0	-20.56	AV	248.00	150	Horizontal	Pass
2	2784.200	43.76	-10.34	74.0	-30.24	Peak	90.00	150	Horizontal	Pass
2**	2784.200	34.25	-10.34	54.0	-19.75	AV	90.00	150	Horizontal	Pass
3	4153.500	46.53	-7.08	74.0	-27.47	Peak	360.00	150	Horizontal	Pass
3**	4153.500	38.35	-7.08	54.0	-15.65	AV	360.00	150	Horizontal	Pass
4	5220.500	95.16	-4.76	--	--	Peak	189.00	150	Horizontal	N/A
4**	5220.500	87.72	-4.76	--	--	AV	189.00	150	Horizontal	N/A
5	12551.687	52.77	1.59	74.0	-21.23	Peak	322.00	150	Horizontal	Pass
5**	12551.687	43.51	1.59	54.0	-10.49	AV	322.00	150	Horizontal	Pass
6	15910.500	45.37	2.57	74.0	-28.63	Peak	53.00	150	Horizontal	Pass
6**	15910.500	36.59	2.57	54.0	-17.41	AV	53.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1144.600	39.32	-20.52	74.0	-34.68	Peak	278.00	150	Vertical	Pass
1**	1144.600	29.39	-20.52	54.0	-24.61	AV	278.00	150	Vertical	Pass
2	2783.300	44.00	-9.74	74.0	-30.00	Peak	132.00	150	Vertical	Pass
2**	2783.300	35.55	-9.74	54.0	-18.45	AV	132.00	150	Vertical	Pass
3	4596.000	48.00	-5.69	74.0	-26.00	Peak	87.00	150	Vertical	Pass
3**	4596.000	38.85	-5.69	54.0	-15.15	AV	87.00	150	Vertical	Pass
4	5220.500	96.05	-4.76	--	--	Peak	157.00	150	Vertical	N/A
4**	5220.500	88.48	-4.76	--	--	AV	157.00	150	Vertical	N/A
5	12361.213	52.58	0.64	74.0	-21.42	Peak	194.00	150	Vertical	Pass
5**	12361.213	43.13	0.64	54.0	-10.87	AV	194.00	150	Vertical	Pass
6	15514.125	44.75	2.40	74.0	-29.25	Peak	131.00	150	Vertical	Pass
6**	15514.125	36.39	2.40	54.0	-17.61	AV	131.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1032.600	41.46	-19.70	74.0	-32.54	Peak	251.00	150	Horizontal	Pass
1**	1032.600	32.53	-19.70	54.0	-21.47	AV	251.00	150	Horizontal	Pass
2	2801.000	43.49	-11.51	74.0	-30.51	Peak	102.00	150	Horizontal	Pass
2**	2801.000	34.09	-11.51	54.0	-19.91	AV	102.00	150	Horizontal	Pass
3	4972.250	48.99	-3.73	74.0	-25.01	Peak	307.00	150	Horizontal	Pass
3**	4972.250	40.68	-3.73	54.0	-13.32	AV	307.00	150	Horizontal	Pass
4	5174.500	98.28	-4.19	--	--	Peak	213.00	150	Horizontal	N/A
4**	5174.500	90.90	-4.19	--	--	AV	213.00	150	Horizontal	N/A
5	12363.588	52.81	0.62	74.0	-21.19	Peak	251.00	150	Horizontal	Pass
5**	12363.588	43.65	0.62	54.0	-10.35	AV	251.00	150	Horizontal	Pass
6	15942.000	44.67	2.79	74.0	-29.33	Peak	298.00	150	Horizontal	Pass
6**	15942.000	36.09	2.79	54.0	-17.91	AV	298.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1006.600	39.53	-20.20	74.0	-34.47	Peak	54.00	150	Vertical	Pass
1**	1006.600	30.47	-20.20	54.0	-23.53	AV	54.00	150	Vertical	Pass
2	1580.100	40.08	-19.78	74.0	-33.92	Peak	275.00	150	Vertical	Pass
2**	1580.100	31.00	-19.78	54.0	-23.00	AV	275.00	150	Vertical	Pass
3	2788.700	44.09	-10.28	74.0	-29.91	Peak	114.00	150	Vertical	Pass
3**	2788.700	34.92	-10.28	54.0	-19.08	AV	114.00	150	Vertical	Pass
4	5185.500	99.09	-4.39	--	--	Peak	120.00	150	Vertical	N/A
4**	5185.500	91.64	-4.39	--	--	AV	120.00	150	Vertical	N/A
5	12559.526	52.75	1.52	74.0	-21.25	Peak	256.00	150	Vertical	Pass
5**	12559.526	42.89	1.52	54.0	-11.11	AV	256.00	150	Vertical	Pass
6	15733.313	46.05	2.07	74.0	-27.95	Peak	139.00	150	Vertical	Pass
6**	15733.313	37.12	2.07	54.0	-16.88	AV	139.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.400	40.84	-19.68	74.0	-33.16	Peak	246.00	150	Horizontal	Pass
1**	1030.400	32.78	-19.68	54.0	-21.22	AV	246.00	150	Horizontal	Pass
2	2788.700	44.47	-10.28	74.0	-29.53	Peak	87.00	150	Horizontal	Pass
2**	2788.700	34.85	-10.28	54.0	-19.15	AV	87.00	150	Horizontal	Pass
3	4745.000	49.19	-5.27	74.0	-24.81	Peak	356.00	150	Horizontal	Pass
3**	4745.000	38.83	-5.27	54.0	-15.17	AV	356.00	150	Horizontal	Pass
4	5218.250	98.25	-5.17	--	--	Peak	15.00	150	Horizontal	N/A
4**	5218.250	90.13	-5.17	--	--	AV	15.00	150	Horizontal	N/A
5	12422.725	53.09	0.57	74.0	-20.91	Peak	183.00	150	Horizontal	Pass
5**	12422.725	43.35	0.57	54.0	-10.65	AV	183.00	150	Horizontal	Pass
6	15695.250	44.65	2.63	74.0	-29.35	Peak	89.00	150	Horizontal	Pass
6**	15695.250	35.94	2.63	54.0	-18.06	AV	89.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1034.100	39.48	-20.00	74.0	-34.52	Peak	48.00	150	Vertical	Pass
1**	1034.100	30.13	-20.00	54.0	-23.87	AV	48.00	150	Vertical	Pass
2	2792.900	43.53	-11.07	74.0	-30.47	Peak	283.00	150	Vertical	Pass
2**	2792.900	34.07	-11.07	54.0	-19.93	AV	283.00	150	Vertical	Pass
3	4971.000	49.75	-3.33	74.0	-24.25	Peak	360.00	150	Vertical	Pass
3**	4971.000	41.29	-3.33	54.0	-12.71	AV	360.00	150	Vertical	Pass
4	5222.750	99.01	-4.85	--	--	Peak	119.00	150	Vertical	N/A
4**	5222.750	91.69	-4.85	--	--	AV	119.00	150	Vertical	N/A
5	12458.350	52.60	0.82	74.0	-21.40	Peak	278.00	150	Vertical	Pass
5**	12458.350	43.13	0.82	54.0	-10.87	AV	278.00	150	Vertical	Pass
6	15485.250	44.89	2.80	74.0	-29.11	Peak	122.00	150	Vertical	Pass
6**	15485.250	37.06	2.80	54.0	-16.94	AV	122.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.000	40.56	-20.22	74.0	-33.44	Peak	253.00	150	Horizontal	Pass
1**	1030.000	31.45	-20.22	54.0	-22.55	AV	253.00	150	Horizontal	Pass
2	2782.700	43.89	-9.82	74.0	-30.11	Peak	7.00	150	Horizontal	Pass
2**	2782.700	35.76	-9.82	54.0	-18.24	AV	7.00	150	Horizontal	Pass
3	4971.750	49.27	-3.70	74.0	-24.73	Peak	306.00	150	Horizontal	Pass
3**	4971.750	40.85	-3.70	54.0	-13.15	AV	306.00	150	Horizontal	Pass
4	5232.250	97.26	-5.17	--	--	Peak	212.00	150	Horizontal	N/A
4**	5232.250	88.80	-5.17	--	--	AV	212.00	150	Horizontal	N/A
5	12454.787	52.48	0.85	74.0	-21.52	Peak	257.00	150	Horizontal	Pass
5**	12454.787	42.99	0.85	54.0	-11.01	AV	257.00	150	Horizontal	Pass
6	15487.875	45.25	2.78	74.0	-28.75	Peak	182.00	150	Horizontal	Pass
6**	15487.875	37.62	2.78	54.0	-16.38	AV	182.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1032.400	40.14	-20.13	74.0	-33.86	Peak	53.00	150	Vertical	Pass
1**	1032.400	31.87	-20.13	54.0	-22.13	AV	53.00	150	Vertical	Pass
2	2786.600	44.49	-9.92	74.0	-29.51	Peak	203.00	150	Vertical	Pass
2**	2786.600	35.89	-9.92	54.0	-18.11	AV	203.00	150	Vertical	Pass
3	4972.500	49.70	-3.27	74.0	-24.30	Peak	112.00	150	Vertical	Pass
3**	4972.500	40.53	-3.27	54.0	-13.47	AV	112.00	150	Vertical	Pass
4	5247.500	97.69	-5.07	--	--	Peak	169.00	150	Vertical	N/A
4**	5247.500	90.62	-5.07	--	--	AV	169.00	150	Vertical	N/A
5	12303.974	53.24	0.66	74.0	-20.76	Peak	160.00	150	Vertical	Pass
5**	12303.974	43.00	0.66	54.0	-11.00	AV	160.00	150	Vertical	Pass
6	15528.563	44.41	2.13	74.0	-29.59	Peak	144.00	150	Vertical	Pass
6**	15528.563	35.78	2.13	54.0	-18.22	AV	144.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1021.500	40.80	-20.06	74.0	-33.20	Peak	258.00	150	Horizontal	Pass
1**	1021.500	32.05	-20.06	54.0	-21.95	AV	258.00	150	Horizontal	Pass
2	2783.300	43.18	-9.74	74.0	-30.82	Peak	24.00	150	Horizontal	Pass
2**	2783.300	35.31	-9.74	54.0	-18.69	AV	24.00	150	Horizontal	Pass
3	4307.000	47.25	-5.60	74.0	-26.75	Peak	360.00	150	Horizontal	Pass
3**	4307.000	38.14	-5.60	54.0	-15.86	AV	360.00	150	Horizontal	Pass
4	5174.500	95.82	-4.19	--	--	Peak	204.00	150	Horizontal	N/A
4**	5174.500	87.96	-4.19	--	--	AV	204.00	150	Horizontal	N/A
5	12280.700	52.76	0.54	74.0	-21.24	Peak	360.00	150	Horizontal	Pass
5**	12280.700	42.26	0.54	54.0	-11.74	AV	360.00	150	Horizontal	Pass
6	15709.688	45.22	2.60	74.0	-28.78	Peak	332.00	150	Horizontal	Pass
6**	15709.688	37.04	2.60	54.0	-16.96	AV	332.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1202.600	39.59	-20.15	74.0	-34.41	Peak	274.00	150	Vertical	Pass
1**	1202.600	29.87	-20.15	54.0	-24.13	AV	274.00	150	Vertical	Pass
2	2785.800	43.85	-10.08	74.0	-30.15	Peak	91.00	150	Vertical	Pass
2**	2785.800	34.81	-10.08	54.0	-19.19	AV	91.00	150	Vertical	Pass
3	4974.500	49.03	-3.74	74.0	-24.97	Peak	312.00	150	Vertical	Pass
3**	4974.500	40.67	-3.74	54.0	-13.33	AV	312.00	150	Vertical	Pass
4	5205.000	95.80	-4.44	--	--	Peak	162.00	150	Vertical	N/A
4**	5205.000	88.03	-4.44	--	--	AV	162.00	150	Vertical	N/A
5	12359.550	52.11	0.65	74.0	-21.89	Peak	329.00	150	Vertical	Pass
5**	12359.550	43.03	0.65	54.0	-10.97	AV	329.00	150	Vertical	Pass
6	15885.563	45.25	1.98	74.0	-28.75	Peak	19.00	150	Vertical	Pass
6**	15885.563	37.78	1.98	54.0	-16.22	AV	19.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.800	41.30	-20.15	74.0	-32.70	Peak	250.00	150	Horizontal	Pass
1**	1030.800	33.23	-20.15	54.0	-20.77	AV	250.00	150	Horizontal	Pass
2	2782.700	43.41	-9.82	74.0	-30.59	Peak	180.00	150	Horizontal	Pass
2**	2782.700	35.30	-9.82	54.0	-18.70	AV	180.00	150	Horizontal	Pass
3	4987.250	49.10	-4.15	74.0	-24.90	Peak	1.00	150	Horizontal	Pass
3**	4987.250	40.90	-4.15	54.0	-13.10	AV	1.00	150	Horizontal	Pass
4	5221.000	95.53	-4.85	--	--	Peak	212.00	150	Horizontal	N/A
4**	5221.000	87.78	-4.85	--	--	AV	212.00	150	Horizontal	N/A
5	12422.725	52.52	0.57	74.0	-21.48	Peak	66.00	150	Horizontal	Pass
5**	12422.725	43.31	0.57	54.0	-10.69	AV	66.00	150	Horizontal	Pass
6	15910.500	44.84	2.57	74.0	-29.16	Peak	327.00	150	Horizontal	Pass
6**	15910.500	37.86	2.57	54.0	-16.14	AV	327.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.600	39.67	-19.82	74.0	-34.33	Peak	53.00	150	Vertical	Pass
1**	1030.600	31.63	-19.82	54.0	-22.37	AV	53.00	150	Vertical	Pass
2	2786.100	43.33	-10.05	74.0	-30.67	Peak	313.00	150	Vertical	Pass
2**	2786.100	34.92	-10.05	54.0	-19.08	AV	313.00	150	Vertical	Pass
3	4051.000	46.33	-7.55	74.0	-27.67	Peak	16.00	150	Vertical	Pass
3**	4051.000	36.51	-7.55	54.0	-17.49	AV	16.00	150	Vertical	Pass
4	5220.250	96.63	-4.89	--	--	Peak	111.00	150	Vertical	N/A
4**	5220.250	88.14	-4.89	--	--	AV	111.00	150	Vertical	N/A
5	12552.401	53.42	1.59	74.0	-20.58	Peak	93.00	150	Vertical	Pass
5**	12552.401	43.62	1.59	54.0	-10.38	AV	93.00	150	Vertical	Pass
6	15879.000	44.72	1.74	74.0	-29.28	Peak	17.00	150	Vertical	Pass
6**	15879.000	36.21	1.74	54.0	-17.79	AV	17.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1034.000	40.86	-19.74	74.0	-33.14	Peak	255.00	150	Horizontal	Pass
1**	1034.000	32.66	-19.74	54.0	-21.34	AV	255.00	150	Horizontal	Pass
2	2776.700	43.66	-10.47	74.0	-30.34	Peak	354.00	150	Horizontal	Pass
2**	2776.700	34.79	-10.47	54.0	-19.21	AV	354.00	150	Horizontal	Pass
3	4973.750	49.44	-3.63	74.0	-24.56	Peak	200.00	150	Horizontal	Pass
3**	4973.750	40.74	-3.63	54.0	-13.26	AV	200.00	150	Horizontal	Pass
4	5207.500	93.55	-4.48	--	--	Peak	15.00	150	Horizontal	N/A
4**	5207.500	85.13	-4.48	--	--	AV	15.00	150	Horizontal	N/A
5	12432.700	52.52	0.69	74.0	-21.48	Peak	25.00	150	Horizontal	Pass
5**	12432.700	43.35	0.69	54.0	-10.65	AV	25.00	150	Horizontal	Pass
6	15905.250	44.11	2.53	74.0	-29.89	Peak	158.00	150	Horizontal	Pass
6**	15905.250	36.71	2.53	54.0	-17.29	AV	158.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1004.200	40.99	-20.14	74.0	-33.01	Peak	65.00	150	Vertical	Pass
1**	1004.200	30.46	-20.14	54.0	-23.54	AV	65.00	150	Vertical	Pass
2	2783.300	43.85	-9.74	74.0	-30.15	Peak	13.00	150	Vertical	Pass
2**	2783.300	35.80	-9.74	54.0	-18.20	AV	13.00	150	Vertical	Pass
3	4720.000	48.42	-5.34	74.0	-25.58	Peak	119.00	150	Vertical	Pass
3**	4720.000	38.15	-5.34	54.0	-15.85	AV	119.00	150	Vertical	Pass
4	5190.250	93.87	-4.69	--	--	Peak	119.00	150	Vertical	N/A
4**	5190.250	85.87	-4.69	--	--	AV	119.00	150	Vertical	N/A
5	12606.550	52.77	1.09	74.0	-21.23	Peak	262.00	150	Vertical	Pass
5**	12606.550	43.79	1.09	54.0	-10.21	AV	262.00	150	Vertical	Pass
6	15738.563	45.37	1.95	74.0	-28.63	Peak	11.00	150	Vertical	Pass
6**	15738.563	38.14	1.95	54.0	-15.86	AV	11.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1020.500	40.28	-20.20	74.0	-33.72	Peak	252.00	150	Horizontal	Pass
1**	1020.500	31.45	-20.20	54.0	-22.55	AV	252.00	150	Horizontal	Pass
2	2786.500	44.03	-9.82	74.0	-29.97	Peak	156.00	150	Horizontal	Pass
2**	2786.500	35.12	-9.82	54.0	-18.88	AV	156.00	150	Horizontal	Pass
3	4955.250	49.10	-3.51	74.0	-24.90	Peak	16.00	150	Horizontal	Pass
3**	4955.250	40.34	-3.51	54.0	-13.66	AV	16.00	150	Horizontal	Pass
4	5739.250	94.64	-5.89	--	--	Peak	220.00	150	Horizontal	N/A
4**	5739.250	86.39	-5.89	--	--	AV	220.00	150	Horizontal	N/A
5	12585.888	52.70	1.28	74.0	-21.30	Peak	9.00	150	Horizontal	Pass
5**	12585.888	43.53	1.28	54.0	-10.47	AV	9.00	150	Horizontal	Pass
6	15893.437	44.84	2.26	74.0	-29.16	Peak	111.00	150	Horizontal	Pass
6**	15893.437	36.15	2.26	54.0	-17.85	AV	111.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1032.800	39.93	-19.99	74.0	-34.07	Peak	72.00	150	Vertical	Pass
1**	1032.800	31.72	-19.99	54.0	-22.28	AV	72.00	150	Vertical	Pass
2	2789.900	43.84	-10.91	74.0	-30.16	Peak	267.00	150	Vertical	Pass
2**	2789.900	34.87	-10.91	54.0	-19.13	AV	267.00	150	Vertical	Pass
3	4957.500	49.23	-3.67	74.0	-24.77	Peak	331.00	150	Vertical	Pass
3**	4957.500	40.41	-3.67	54.0	-13.59	AV	331.00	150	Vertical	Pass
4	5739.750	98.69	-5.66	--	--	Peak	15.00	150	Vertical	N/A
4**	5739.750	91.37	-5.66	--	--	AV	15.00	150	Vertical	N/A
5	12401.825	52.14	0.33	74.0	-21.86	Peak	260.00	150	Vertical	Pass
5**	12401.825	43.53	0.33	54.0	-10.47	AV	260.00	150	Vertical	Pass
6	15552.187	44.69	1.62	74.0	-29.31	Peak	250.00	150	Vertical	Pass
6**	15552.187	36.89	1.62	54.0	-17.11	AV	250.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1033.000	40.10	-20.28	74.0	-33.90	Peak	249.00	150	Horizontal	Pass
1**	1033.000	31.19	-20.28	54.0	-22.81	AV	249.00	150	Horizontal	Pass
2	2777.000	43.71	-10.34	74.0	-30.29	Peak	153.00	150	Horizontal	Pass
2**	2777.000	35.59	-10.34	54.0	-18.41	AV	153.00	150	Horizontal	Pass
3	4988.500	49.78	-4.36	74.0	-24.22	Peak	153.00	150	Horizontal	Pass
3**	4988.500	40.32	-4.36	54.0	-13.68	AV	153.00	150	Horizontal	Pass
4	5782.500	94.96	-4.76	--	--	Peak	211.00	150	Horizontal	N/A
4**	5782.500	87.84	-4.76	--	--	AV	211.00	150	Horizontal	N/A
5	12431.275	52.87	0.67	74.0	-21.13	Peak	18.00	150	Horizontal	Pass
5**	12431.275	43.85	0.67	54.0	-10.15	AV	18.00	150	Horizontal	Pass
6	15482.625	45.04	2.82	74.0	-28.96	Peak	226.00	150	Horizontal	Pass
6**	15482.625	36.88	2.82	54.0	-17.12	AV	226.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1069.400	39.94	-20.16	74.0	-34.06	Peak	69.00	150	Vertical	Pass
1**	1069.400	28.87	-20.16	54.0	-25.13	AV	69.00	150	Vertical	Pass
2	2783.100	43.57	-9.34	74.0	-30.43	Peak	0.00	150	Vertical	Pass
2**	2783.100	36.10	-9.34	54.0	-17.90	AV	0.00	150	Vertical	Pass
3	4952.250	49.28	-3.80	74.0	-24.72	Peak	183.00	150	Vertical	Pass
3**	4952.250	40.12	-3.80	54.0	-13.88	AV	183.00	150	Vertical	Pass
4	5790.000	101.37	-4.35	--	--	Peak	34.00	150	Vertical	N/A
4**	5790.000	92.89	-4.35	--	--	AV	34.00	150	Vertical	N/A
5	12461.912	52.89	0.80	74.0	-21.11	Peak	57.00	150	Vertical	Pass
5**	12461.912	42.92	0.80	54.0	-11.08	AV	57.00	150	Vertical	Pass
6	15550.875	45.48	1.68	74.0	-28.52	Peak	0.00	150	Vertical	Pass
6**	15550.875	37.99	1.68	54.0	-16.01	AV	0.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1037.500	40.87	-20.78	74.0	-33.13	Peak	236.00	150	Horizontal	Pass
1**	1037.500	31.79	-20.78	54.0	-22.21	AV	236.00	150	Horizontal	Pass
2	2783.100	43.66	-9.34	74.0	-30.34	Peak	185.00	150	Horizontal	Pass
2**	2783.100	36.16	-9.34	54.0	-17.84	AV	185.00	150	Horizontal	Pass
3	4124.500	47.64	-6.55	74.0	-26.36	Peak	141.00	150	Horizontal	Pass
3**	4124.500	37.67	-6.55	54.0	-16.33	AV	141.00	150	Horizontal	Pass
4	5821.250	95.42	-4.13	--	--	Peak	212.00	150	Horizontal	N/A
4**	5821.250	87.94	-4.13	--	--	AV	212.00	150	Horizontal	N/A
5	12341.975	52.00	0.72	74.0	-22.00	Peak	84.00	150	Horizontal	Pass
5**	12341.975	43.25	0.72	54.0	-10.75	AV	84.00	150	Horizontal	Pass
6	15519.375	45.34	2.30	74.0	-28.66	Peak	197.00	150	Horizontal	Pass
6**	15519.375	36.48	2.30	54.0	-17.52	AV	197.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1002.800	39.59	-20.15	74.0	-34.41	Peak	323.00	150	Vertical	Pass
1**	1002.800	29.22	-20.15	54.0	-24.78	AV	323.00	150	Vertical	Pass
2	2777.200	44.67	-10.26	74.0	-29.33	Peak	102.00	150	Vertical	Pass
2**	2777.200	34.50	-10.26	54.0	-19.50	AV	102.00	150	Vertical	Pass
3	4972.500	49.06	-3.27	74.0	-24.94	Peak	93.00	150	Vertical	Pass
3**	4972.500	41.77	-3.27	54.0	-12.23	AV	93.00	150	Vertical	Pass
4	5820.500	100.79	-4.23	--	--	Peak	36.00	150	Vertical	N/A
4**	5820.500	92.13	-4.23	--	--	AV	36.00	150	Vertical	N/A
5	12580.425	53.34	1.33	74.0	-20.66	Peak	360.00	150	Vertical	Pass
5**	12580.425	44.34	1.33	54.0	-9.66	AV	360.00	150	Vertical	Pass
6	15919.688	44.99	2.64	74.0	-29.01	Peak	213.00	150	Vertical	Pass
6**	15919.688	37.56	2.64	54.0	-16.44	AV	213.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1034.800	41.21	-20.31	74.0	-32.79	Peak	245.00	150	Horizontal	Pass
1**	1034.800	32.42	-20.31	54.0	-21.58	AV	245.00	150	Horizontal	Pass
2	2785.000	43.76	-9.91	74.0	-30.24	Peak	23.00	150	Horizontal	Pass
2**	2785.000	35.45	-9.91	54.0	-18.55	AV	23.00	150	Horizontal	Pass
3	4050.500	46.91	-7.28	74.0	-27.09	Peak	360.00	150	Horizontal	Pass
3**	4050.500	36.53	-7.28	54.0	-17.47	AV	360.00	150	Horizontal	Pass
4	5748.250	93.51	-5.77	--	--	Peak	52.00	150	Horizontal	N/A
4**	5748.250	86.69	-5.77	--	--	AV	52.00	150	Horizontal	N/A
5	12486.850	52.97	0.61	74.0	-21.03	Peak	13.00	150	Horizontal	Pass
5**	12486.850	43.49	0.61	54.0	-10.51	AV	13.00	150	Horizontal	Pass
6	15915.750	45.64	2.61	74.0	-28.36	Peak	231.00	150	Horizontal	Pass
6**	15915.750	37.40	2.61	54.0	-16.60	AV	231.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1034.000	40.23	-19.74	74.0	-33.77	Peak	69.00	150	Vertical	Pass
1**	1034.000	31.29	-19.74	54.0	-22.71	AV	69.00	150	Vertical	Pass
2	2778.600	44.40	-10.56	74.0	-29.60	Peak	0.00	150	Vertical	Pass
2**	2778.600	34.86	-10.56	54.0	-19.14	AV	0.00	150	Vertical	Pass
3	4981.500	49.28	-3.78	74.0	-24.72	Peak	349.00	150	Vertical	Pass
3**	4981.500	39.97	-3.78	54.0	-14.03	AV	349.00	150	Vertical	Pass
4	5752.000	98.45	-5.64	--	--	Peak	31.00	150	Vertical	N/A
4**	5752.000	90.52	-5.64	--	--	AV	31.00	150	Vertical	N/A
5	12357.175	52.68	0.67	74.0	-21.32	Peak	25.00	150	Vertical	Pass
5**	12357.175	42.89	0.67	54.0	-11.11	AV	25.00	150	Vertical	Pass
6	15485.250	44.56	2.80	74.0	-29.44	Peak	176.00	150	Vertical	Pass
6**	15485.250	37.42	2.80	54.0	-16.58	AV	176.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.700	40.73	-19.98	74.0	-33.27	Peak	254.00	150	Horizontal	Pass
1**	1030.700	31.84	-19.98	54.0	-22.16	AV	254.00	150	Horizontal	Pass
2	2783.200	43.85	-9.54	74.0	-30.15	Peak	203.00	150	Horizontal	Pass
2**	2783.200	35.25	-9.54	54.0	-18.75	AV	203.00	150	Horizontal	Pass
3	5064.750	50.11	-5.28	74.0	-23.89	Peak	33.00	150	Horizontal	Pass
3**	5064.750	39.36	-5.28	54.0	-14.64	AV	33.00	150	Horizontal	Pass
4	5792.000	95.42	-3.88	--	--	Peak	214.00	150	Horizontal	N/A
4**	5792.000	87.97	-3.88	--	--	AV	214.00	150	Horizontal	N/A
5	12428.188	52.60	0.63	74.0	-21.40	Peak	187.00	150	Horizontal	Pass
5**	12428.188	42.97	0.63	54.0	-11.03	AV	187.00	150	Horizontal	Pass
6	15911.812	45.57	2.58	74.0	-28.43	Peak	1.00	150	Horizontal	Pass
6**	15911.812	37.52	2.58	54.0	-16.48	AV	1.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1013.900	39.95	-19.75	74.0	-34.05	Peak	58.00	150	Vertical	Pass
1**	1013.900	30.35	-19.75	54.0	-23.65	AV	58.00	150	Vertical	Pass
2	2783.100	44.12	-9.34	74.0	-29.88	Peak	238.00	150	Vertical	Pass
2**	2783.100	35.73	-9.34	54.0	-18.27	AV	238.00	150	Vertical	Pass
3	4981.500	49.15	-3.78	74.0	-24.85	Peak	104.00	150	Vertical	Pass
3**	4981.500	40.68	-3.78	54.0	-13.32	AV	104.00	150	Vertical	Pass
4	5780.250	100.04	-5.26	--	--	Peak	33.00	150	Vertical	N/A
4**	5780.250	92.21	-5.26	--	--	AV	33.00	150	Vertical	N/A
5	12550.500	52.90	1.61	74.0	-21.10	Peak	81.00	150	Vertical	Pass
5**	12550.500	45.03	1.61	54.0	-8.97	AV	81.00	150	Vertical	Pass
6	15726.750	44.95	2.22	74.0	-29.05	Peak	66.00	150	Vertical	Pass
6**	15726.750	38.07	2.22	54.0	-15.93	AV	66.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1032.500	40.32	-19.89	74.0	-33.68	Peak	246.00	150	Horizontal	Pass
1**	1032.500	32.80	-19.89	54.0	-21.20	AV	246.00	150	Horizontal	Pass
2	2783.100	43.51	-9.34	74.0	-30.49	Peak	154.00	150	Horizontal	Pass
2**	2783.100	35.91	-9.34	54.0	-18.09	AV	154.00	150	Horizontal	Pass
3	4968.750	49.22	-4.01	74.0	-24.78	Peak	49.00	150	Horizontal	Pass
3**	4968.750	40.28	-4.01	54.0	-13.72	AV	49.00	150	Horizontal	Pass
4	5818.500	94.64	-4.22	--	--	Peak	208.00	150	Horizontal	N/A
4**	5818.500	85.60	-4.22	--	--	AV	208.00	150	Horizontal	N/A
5	12339.599	52.50	0.72	74.0	-21.50	Peak	231.00	150	Horizontal	Pass
5**	12339.599	42.68	0.72	54.0	-11.32	AV	231.00	150	Horizontal	Pass
6	15478.688	45.10	2.86	74.0	-28.90	Peak	254.00	150	Horizontal	Pass
6**	15478.688	36.56	2.86	54.0	-17.44	AV	254.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.500	40.38	-19.65	74.0	-33.62	Peak	59.00	150	Vertical	Pass
1**	1030.500	30.53	-19.65	54.0	-23.47	AV	59.00	150	Vertical	Pass
2	2781.800	44.10	-10.57	74.0	-29.90	Peak	119.00	150	Vertical	Pass
2**	2781.800	35.17	-10.57	54.0	-18.83	AV	119.00	150	Vertical	Pass
3	4849.000	49.19	-6.20	74.0	-24.81	Peak	264.00	150	Vertical	Pass
3**	4849.000	38.39	-6.20	54.0	-15.61	AV	264.00	150	Vertical	Pass
4	5820.250	100.05	-4.02	--	--	Peak	34.00	150	Vertical	N/A
4**	5820.250	92.84	-4.02	--	--	AV	34.00	150	Vertical	N/A
5	12570.450	52.60	1.42	74.0	-21.40	Peak	67.00	150	Vertical	Pass
5**	12570.450	43.44	1.42	54.0	-10.56	AV	67.00	150	Vertical	Pass
6	15911.812	44.97	2.58	74.0	-29.03	Peak	63.00	150	Vertical	Pass
6**	15911.812	37.36	2.58	54.0	-16.64	AV	63.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1039.000	40.85	-20.21	74.0	-33.15	Peak	242.00	150	Horizontal	Pass
1**	1039.000	31.92	-20.21	54.0	-22.08	AV	242.00	150	Horizontal	Pass
2	2782.900	43.95	-9.58	74.0	-30.05	Peak	0.00	150	Horizontal	Pass
2**	2782.900	35.93	-9.58	54.0	-18.07	AV	0.00	150	Horizontal	Pass
3	4337.250	48.66	-5.45	74.0	-25.34	Peak	348.00	150	Horizontal	Pass
3**	4337.250	38.55	-5.45	54.0	-15.45	AV	348.00	150	Horizontal	Pass
4	5748.250	92.09	-5.77	--	--	Peak	208.00	150	Horizontal	N/A
4**	5748.250	83.62	-5.77	--	--	AV	208.00	150	Horizontal	N/A
5	12448.850	52.78	0.87	74.0	-21.22	Peak	214.00	150	Horizontal	Pass
5**	12448.850	42.70	0.87	54.0	-11.30	AV	214.00	150	Horizontal	Pass
6	15519.375	45.15	2.30	74.0	-28.85	Peak	337.00	150	Horizontal	Pass
6**	15519.375	37.32	2.30	54.0	-16.68	AV	337.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1007.400	40.25	-20.11	74.0	-33.75	Peak	56.00	150	Vertical	Pass
1**	1007.400	29.86	-20.11	54.0	-24.14	AV	56.00	150	Vertical	Pass
2	2783.700	43.77	-10.20	74.0	-30.23	Peak	275.00	150	Vertical	Pass
2**	2783.700	34.63	-10.20	54.0	-19.37	AV	275.00	150	Vertical	Pass
3	4959.500	48.93	-3.71	74.0	-25.07	Peak	360.00	150	Vertical	Pass
3**	4959.500	40.12	-3.71	54.0	-13.88	AV	360.00	150	Vertical	Pass
4	5738.750	95.70	-5.91	--	--	Peak	33.00	150	Vertical	N/A
4**	5738.750	87.34	-5.91	--	--	AV	33.00	150	Vertical	N/A
5	12245.075	52.66	0.29	74.0	-21.34	Peak	357.00	150	Vertical	Pass
5**	12245.075	43.89	0.29	54.0	-10.11	AV	357.00	150	Vertical	Pass
6	15545.625	44.97	1.80	74.0	-29.03	Peak	131.00	150	Vertical	Pass
6**	15545.625	37.03	1.80	54.0	-16.97	AV	131.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1033.800	41.68	-19.60	74.0	-32.32	Peak	253.00	150	Horizontal	Pass
1**	1033.800	32.37	-19.60	54.0	-21.63	AV	253.00	150	Horizontal	Pass
2	2783.900	43.80	-10.19	74.0	-30.20	Peak	110.00	150	Horizontal	Pass
2**	2783.900	35.43	-10.19	54.0	-18.57	AV	110.00	150	Horizontal	Pass
3	4960.000	49.39	-3.50	74.0	-24.61	Peak	67.00	150	Horizontal	Pass
3**	4960.000	40.38	-3.50	54.0	-13.62	AV	67.00	150	Horizontal	Pass
4	5801.750	92.05	-3.37	--	--	Peak	208.00	150	Horizontal	N/A
4**	5801.750	84.06	-3.37	--	--	AV	208.00	150	Horizontal	N/A
5	12247.925	52.30	0.33	74.0	-21.70	Peak	6.00	150	Horizontal	Pass
5**	12247.925	43.23	0.33	54.0	-10.77	AV	6.00	150	Horizontal	Pass
6	15711.000	44.89	2.57	74.0	-29.11	Peak	57.00	150	Horizontal	Pass
6**	15711.000	36.98	2.57	54.0	-17.02	AV	57.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.300	39.98	-19.82	74.0	-34.02	Peak	62.00	150	Vertical	Pass
1**	1030.300	31.29	-19.82	54.0	-22.71	AV	62.00	150	Vertical	Pass
2	2789.200	43.85	-10.57	74.0	-30.15	Peak	10.00	150	Vertical	Pass
2**	2789.200	34.83	-10.57	54.0	-19.17	AV	10.00	150	Vertical	Pass
3	4959.750	48.96	-3.57	74.0	-25.04	Peak	32.00	150	Vertical	Pass
3**	4959.750	40.06	-3.57	54.0	-13.94	AV	32.00	150	Vertical	Pass
4	5802.750	98.65	-3.54	--	--	Peak	32.00	150	Vertical	N/A
4**	5802.750	90.13	-3.54	--	--	AV	32.00	150	Vertical	N/A
5	12365.725	52.51	0.60	74.0	-21.49	Peak	222.00	150	Vertical	Pass
5**	12365.725	44.47	0.60	54.0	-9.53	AV	222.00	150	Vertical	Pass
6	15495.750	45.46	2.71	74.0	-28.54	Peak	83.00	150	Vertical	Pass
6**	15495.750	36.92	2.71	54.0	-17.08	AV	83.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1031.400	41.36	-20.43	74.0	-32.64	Peak	261.00	150	Horizontal	Pass
1**	1031.400	33.53	-20.43	54.0	-20.47	AV	261.00	150	Horizontal	Pass
2	2787.000	43.94	-10.28	74.0	-30.06	Peak	201.00	150	Horizontal	Pass
2**	2787.000	35.17	-10.28	54.0	-18.83	AV	201.00	150	Horizontal	Pass
3	4129.500	47.03	-6.45	74.0	-26.97	Peak	49.00	150	Horizontal	Pass
3**	4129.500	37.08	-6.45	54.0	-16.92	AV	49.00	150	Horizontal	Pass
4	5743.750	95.05	-5.76	--	--	Peak	208.00	150	Horizontal	N/A
4**	5743.750	87.05	-5.76	--	--	AV	208.00	150	Horizontal	N/A
5	12578.525	52.47	1.35	74.0	-21.53	Peak	337.00	150	Horizontal	Pass
5**	12578.525	43.77	1.35	54.0	-10.23	AV	337.00	150	Horizontal	Pass
6	15737.250	44.85	1.98	74.0	-29.15	Peak	170.00	150	Horizontal	Pass
6**	15737.250	36.81	1.98	54.0	-17.19	AV	170.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1202.900	41.10	-19.89	74.0	-32.90	Peak	278.00	150	Vertical	Pass
1**	1202.900	30.21	-19.89	54.0	-23.79	AV	278.00	150	Vertical	Pass
2	2783.500	43.61	-10.15	74.0	-30.39	Peak	15.00	150	Vertical	Pass
2**	2783.500	34.98	-10.15	54.0	-19.02	AV	15.00	150	Vertical	Pass
3	4337.000	47.91	-5.45	74.0	-26.09	Peak	139.00	150	Vertical	Pass
3**	4337.000	38.48	-5.45	54.0	-15.52	AV	139.00	150	Vertical	Pass
4	5747.500	98.32	-5.73	--	--	Peak	0.00	150	Vertical	N/A
4**	5747.500	91.29	-5.73	--	--	AV	0.00	150	Vertical	N/A
5	12400.400	52.52	0.31	74.0	-21.48	Peak	40.00	150	Vertical	Pass
5**	12400.400	43.62	0.31	54.0	-10.38	AV	40.00	150	Vertical	Pass
6	15495.750	44.48	2.71	74.0	-29.52	Peak	234.00	150	Vertical	Pass
6**	15495.750	36.75	2.71	54.0	-17.25	AV	234.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1036.100	41.28	-20.50	74.0	-32.72	Peak	240.00	150	Horizontal	Pass
1**	1036.100	32.79	-20.50	54.0	-21.21	AV	240.00	150	Horizontal	Pass
2	2766.800	44.01	-11.39	74.0	-29.99	Peak	300.00	150	Horizontal	Pass
2**	2766.800	34.54	-11.39	54.0	-19.46	AV	300.00	150	Horizontal	Pass
3	4969.500	49.77	-3.99	74.0	-24.23	Peak	71.00	150	Horizontal	Pass
3**	4969.500	41.47	-3.99	54.0	-12.53	AV	71.00	150	Horizontal	Pass
4	5787.500	95.87	-4.35	--	--	Peak	214.00	150	Horizontal	N/A
4**	5787.500	87.69	-4.35	--	--	AV	214.00	150	Horizontal	N/A
5	12545.275	53.56	1.51	74.0	-20.44	Peak	135.00	150	Horizontal	Pass
5**	12545.275	43.33	1.51	54.0	-10.67	AV	135.00	150	Horizontal	Pass
6	15503.625	44.82	2.60	74.0	-29.18	Peak	34.00	150	Horizontal	Pass
6**	15503.625	36.70	2.60	54.0	-17.30	AV	34.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1012.800	39.93	-20.01	74.0	-34.07	Peak	63.00	150	Vertical	Pass
1**	1012.800	30.85	-20.01	54.0	-23.15	AV	63.00	150	Vertical	Pass
2	2777.100	43.82	-10.30	74.0	-30.18	Peak	308.00	150	Vertical	Pass
2**	2777.100	34.78	-10.30	54.0	-19.22	AV	308.00	150	Vertical	Pass
3	4940.500	49.33	-4.46	74.0	-24.67	Peak	127.00	150	Vertical	Pass
3**	4940.500	40.03	-4.46	54.0	-13.97	AV	127.00	150	Vertical	Pass
4	5792.500	99.50	-4.20	--	--	Peak	34.00	150	Vertical	N/A
4**	5792.500	92.47	-4.20	--	--	AV	34.00	150	Vertical	N/A
5	12358.600	52.71	0.66	74.0	-21.29	Peak	213.00	150	Vertical	Pass
5**	12358.600	42.97	0.66	54.0	-11.03	AV	213.00	150	Vertical	Pass
6	15943.312	45.40	2.80	74.0	-28.60	Peak	24.00	150	Vertical	Pass
6**	15943.312	36.79	2.80	54.0	-17.21	AV	24.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1031.800	40.25	-20.76	74.0	-33.75	Peak	257.00	150	Horizontal	Pass
1**	1031.800	31.38	-20.76	54.0	-22.62	AV	257.00	150	Horizontal	Pass
2	2784.000	43.92	-10.22	74.0	-30.08	Peak	257.00	150	Horizontal	Pass
2**	2784.000	35.31	-10.22	54.0	-18.69	AV	257.00	150	Horizontal	Pass
3	4756.250	48.58	-5.07	74.0	-25.42	Peak	275.00	150	Horizontal	Pass
3**	4756.250	39.34	-5.07	54.0	-14.66	AV	275.00	150	Horizontal	Pass
4	5828.250	93.41	-4.19	--	--	Peak	218.00	150	Horizontal	N/A
4**	5828.250	86.14	-4.19	--	--	AV	218.00	150	Horizontal	N/A
5	12349.813	52.31	0.74	74.0	-21.69	Peak	134.00	150	Horizontal	Pass
5**	12349.813	42.67	0.74	54.0	-11.33	AV	134.00	150	Horizontal	Pass
6	15493.125	44.80	2.73	74.0	-29.20	Peak	327.00	150	Horizontal	Pass
6**	15493.125	37.45	2.73	54.0	-16.55	AV	327.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1020.500	40.72	-20.20	74.0	-33.28	Peak	57.00	150	Vertical	Pass
1**	1020.500	32.25	-20.20	54.0	-21.75	AV	57.00	150	Vertical	Pass
2	2782.700	44.41	-9.82	74.0	-29.59	Peak	360.00	150	Vertical	Pass
2**	2782.700	35.68	-9.82	54.0	-18.32	AV	360.00	150	Vertical	Pass
3	4126.000	47.70	-7.05	74.0	-26.30	Peak	360.00	150	Vertical	Pass
3**	4126.000	37.53	-7.05	54.0	-16.47	AV	360.00	150	Vertical	Pass
4	5818.750	99.06	-4.37	--	--	Peak	32.00	150	Vertical	N/A
4**	5818.750	91.66	-4.37	--	--	AV	32.00	150	Vertical	N/A
5	12553.588	52.80	1.58	74.0	-21.20	Peak	331.00	150	Vertical	Pass
5**	12553.588	43.77	1.58	54.0	-10.23	AV	331.00	150	Vertical	Pass
6	15553.500	44.51	1.56	74.0	-29.49	Peak	164.00	150	Vertical	Pass
6**	15553.500	36.04	1.56	54.0	-17.96	AV	164.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.600	40.88	-19.82	74.0	-33.12	Peak	242.00	150	Horizontal	Pass
1**	1030.600	32.65	-19.82	54.0	-21.35	AV	242.00	150	Horizontal	Pass
2	2782.900	44.05	-9.58	74.0	-29.95	Peak	278.00	150	Horizontal	Pass
2**	2782.900	35.96	-9.58	54.0	-18.04	AV	278.00	150	Horizontal	Pass
3	4974.000	49.60	-3.61	74.0	-24.40	Peak	355.00	150	Horizontal	Pass
3**	4974.000	41.16	-3.61	54.0	-12.84	AV	355.00	150	Horizontal	Pass
4	5747.500	91.19	-5.73	--	--	Peak	52.00	150	Horizontal	N/A
4**	5747.500	85.15	-5.73	--	--	AV	52.00	150	Horizontal	N/A
5	12395.650	52.87	0.34	74.0	-21.13	Peak	117.00	150	Horizontal	Pass
5**	12395.650	42.72	0.34	54.0	-11.28	AV	117.00	150	Horizontal	Pass
6	15927.562	44.94	2.69	74.0	-29.06	Peak	299.00	150	Horizontal	Pass
6**	15927.562	36.51	2.69	54.0	-17.49	AV	299.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1034.600	39.84	-20.39	74.0	-34.16	Peak	58.00	150	Vertical	Pass
1**	1034.600	29.56	-20.39	54.0	-24.44	AV	58.00	150	Vertical	Pass
2	2783.100	43.88	-9.34	74.0	-30.12	Peak	360.00	150	Vertical	Pass
2**	2783.100	36.10	-9.34	54.0	-17.90	AV	360.00	150	Vertical	Pass
3	4960.500	48.89	-3.65	74.0	-25.11	Peak	270.00	150	Vertical	Pass
3**	4960.500	40.65	-3.65	54.0	-13.35	AV	270.00	150	Vertical	Pass
4	5761.250	95.53	-5.72	--	--	Peak	183.00	150	Vertical	N/A
4**	5761.250	87.36	-5.72	--	--	AV	183.00	150	Vertical	N/A
5	12583.513	53.13	1.30	74.0	-20.87	Peak	166.00	150	Vertical	Pass
5**	12583.513	44.04	1.30	54.0	-9.96	AV	166.00	150	Vertical	Pass
6	15515.437	45.11	2.38	74.0	-28.89	Peak	123.00	150	Vertical	Pass
6**	15515.437	36.56	2.38	54.0	-17.44	AV	123.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1046.700	41.05	-20.71	74.0	-32.95	Peak	259.00	150	Horizontal	Pass
1**	1046.700	31.20	-20.71	54.0	-22.80	AV	259.00	150	Horizontal	Pass
2	2787.600	43.66	-10.49	74.0	-30.34	Peak	0.00	150	Horizontal	Pass
2**	2787.600	35.04	-10.49	54.0	-18.96	AV	0.00	150	Horizontal	Pass
3	4576.250	48.95	-5.62	74.0	-25.05	Peak	136.00	150	Horizontal	Pass
3**	4576.250	38.65	-5.62	54.0	-15.35	AV	136.00	150	Horizontal	Pass
4	5800.750	93.49	-3.46	--	--	Peak	206.00	150	Horizontal	N/A
4**	5800.750	84.29	-3.46	--	--	AV	206.00	150	Horizontal	N/A
5	12340.076	52.78	0.72	74.0	-21.22	Peak	156.00	150	Horizontal	Pass
5**	12340.076	43.32	0.72	54.0	-10.68	AV	156.00	150	Horizontal	Pass
6	15741.187	44.21	1.89	74.0	-29.79	Peak	125.00	150	Horizontal	Pass
6**	15741.187	36.63	1.89	54.0	-17.37	AV	125.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1030.500	39.76	-19.65	74.0	-34.24	Peak	64.00	150	Vertical	Pass
1**	1030.500	32.02	-19.65	54.0	-21.98	AV	64.00	150	Vertical	Pass
2	2776.900	44.08	-10.38	74.0	-29.92	Peak	4.00	150	Vertical	Pass
2**	2776.900	34.66	-10.38	54.0	-19.34	AV	4.00	150	Vertical	Pass
3	4955.500	49.44	-3.39	74.0	-24.56	Peak	141.00	150	Vertical	Pass
3**	4955.500	40.08	-3.39	54.0	-13.92	AV	141.00	150	Vertical	Pass
4	5801.500	97.71	-3.37	--	--	Peak	34.00	150	Vertical	N/A
4**	5801.500	90.41	-3.37	--	--	AV	34.00	150	Vertical	N/A
5	12614.862	52.55	1.02	74.0	-21.45	Peak	314.00	150	Vertical	Pass
5**	12614.862	44.46	1.02	54.0	-9.54	AV	314.00	150	Vertical	Pass
6	15476.062	45.76	2.88	74.0	-28.24	Peak	125.00	150	Vertical	Pass
6**	15476.062	36.45	2.88	54.0	-17.55	AV	125.00	150	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)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1021.400	40.52	-20.03	74.0	-33.48	Peak	255.00	150	Horizontal	Pass
1**	1021.400	31.19	-20.03	54.0	-22.81	AV	255.00	150	Horizontal	Pass
2	2810.700	44.20	-11.38	74.0	-29.80	Peak	169.00	150	Horizontal	Pass
2**	2810.700	33.74	-11.38	54.0	-20.26	AV	169.00	150	Horizontal	Pass
3	4972.500	50.57	-3.27	74.0	-23.43	Peak	289.00	150	Horizontal	Pass
3**	4972.500	40.84	-3.27	54.0	-13.16	AV	289.00	150	Horizontal	Pass
4	5795.000	89.52	-3.93	--	--	Peak	53.00	150	Horizontal	N/A
4**	5795.000	81.56	-3.93	--	--	AV	53.00	150	Horizontal	N/A
5	12577.100	53.50	1.36	74.0	-20.50	Peak	246.00	150	Horizontal	Pass
5**	12577.100	43.34	1.36	54.0	-10.66	AV	246.00	150	Horizontal	Pass
6	15940.688	45.24	2.78	74.0	-28.76	Peak	70.00	150	Horizontal	Pass
6**	15940.688	37.41	2.78	54.0	-16.59	AV	70.00	150	Horizontal	Pass

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

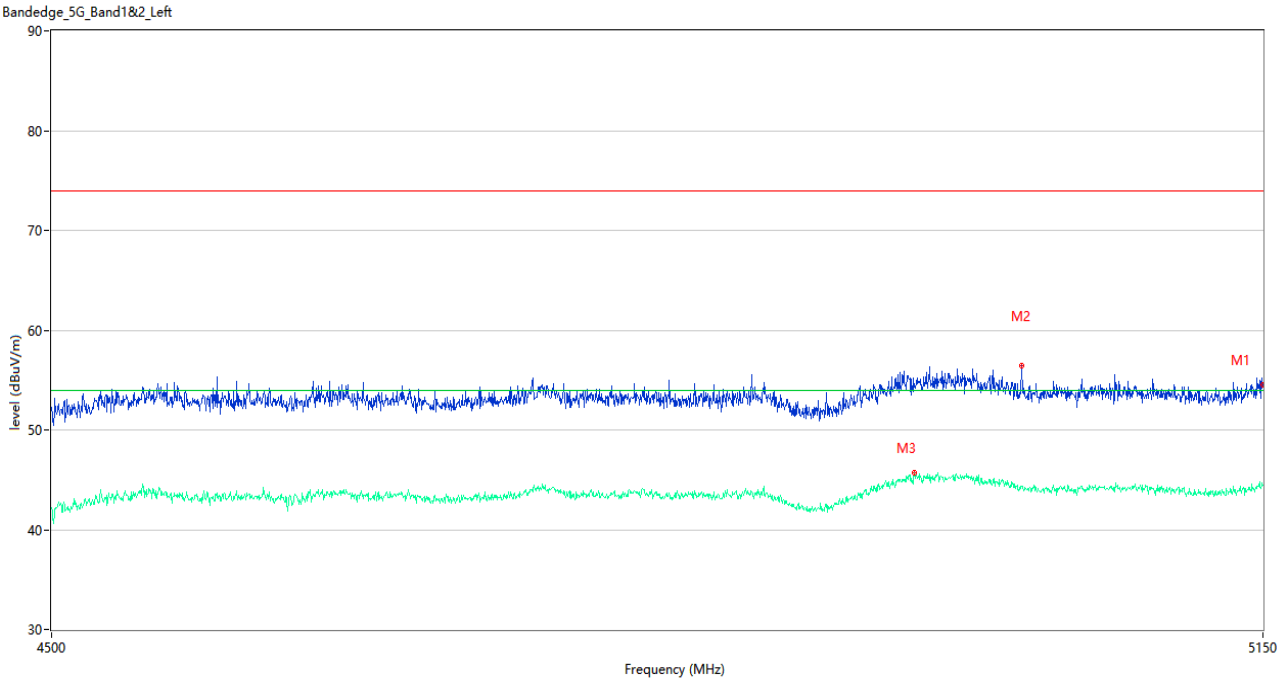
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1217.200	39.74	-19.73	74.0	-34.26	Peak	269.00	150	Vertical	Pass
1**	1217.200	31.11	-19.73	54.0	-22.89	AV	269.00	150	Vertical	Pass
2	2780.700	43.46	-10.77	74.0	-30.54	Peak	201.00	150	Vertical	Pass
2**	2780.700	34.33	-10.77	54.0	-19.67	AV	201.00	150	Vertical	Pass
3	5006.000	49.47	-5.12	74.0	-24.53	Peak	49.00	150	Vertical	Pass
3**	5006.000	39.15	-5.12	54.0	-14.85	AV	49.00	150	Vertical	Pass
4	5797.500	95.29	-3.54	--	--	Peak	31.00	150	Vertical	N/A
4**	5797.500	87.78	-3.54	--	--	AV	31.00	150	Vertical	N/A
5	12334.137	52.39	0.71	74.0	-21.61	Peak	0.00	150	Vertical	Pass
5**	12334.137	44.51	0.71	54.0	-9.49	AV	0.00	150	Vertical	Pass
6	15477.375	44.82	2.87	74.0	-29.18	Peak	139.00	150	Vertical	Pass
6**	15477.375	36.65	2.87	54.0	-17.35	AV	139.00	150	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

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

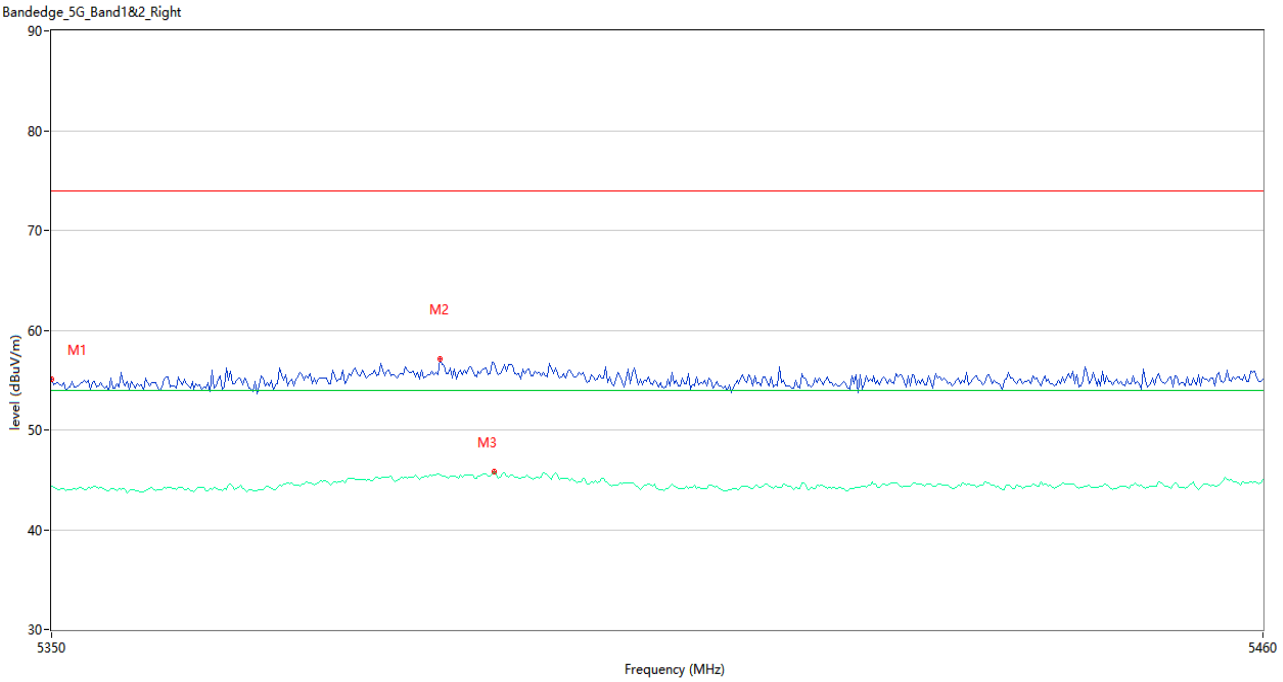
Test Data and Plots

U-NII-1 11a CH36



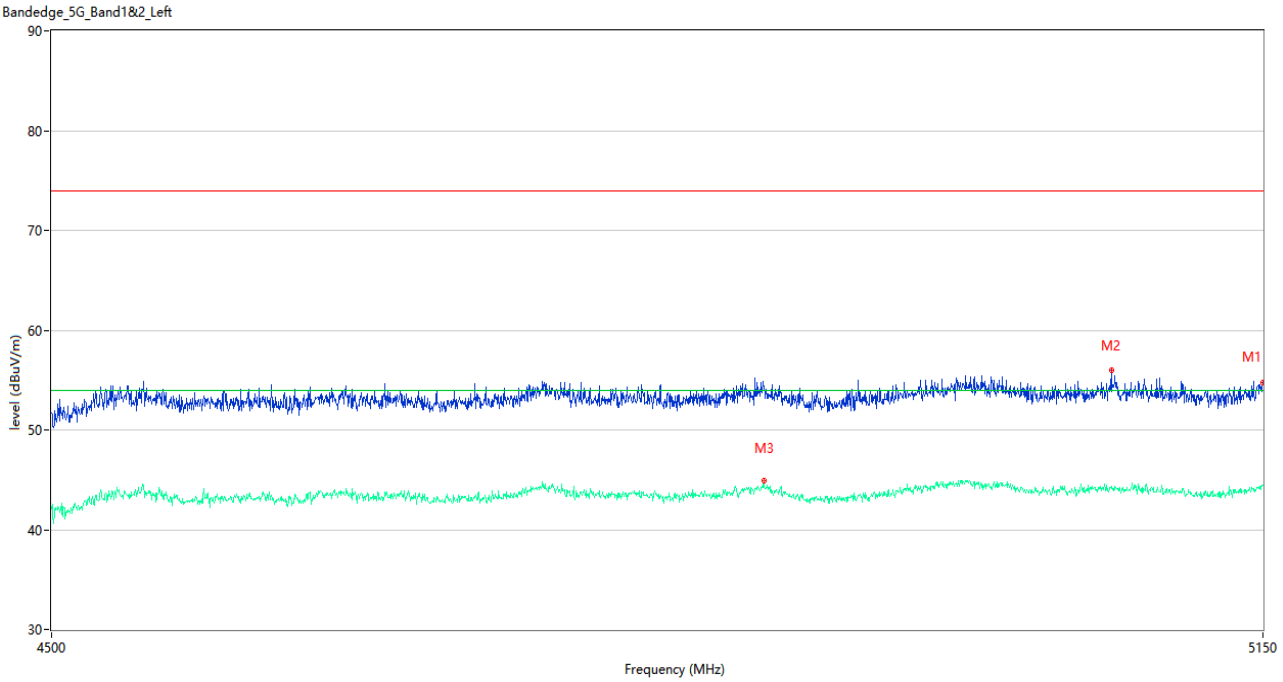
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.48	0.44	74.0	-19.52	Peak	177.00	150	Vertical	Pass
1**	5150.000	44.50	0.44	54.0	-9.50	AV	177.00	150	Vertical	Pass
2	5013.500	56.43	0.50	74.0	-17.57	Peak	224.00	150	Vertical	Pass
2**	5013.500	44.37	0.50	54.0	-9.63	AV	224.00	150	Vertical	Pass
3	4953.700	54.32	1.95	74.0	-19.68	Peak	231.00	150	Vertical	Pass
3**	4953.700	45.69	1.95	54.0	-8.31	AV	231.00	150	Vertical	Pass

U-NII-1 11a CH48



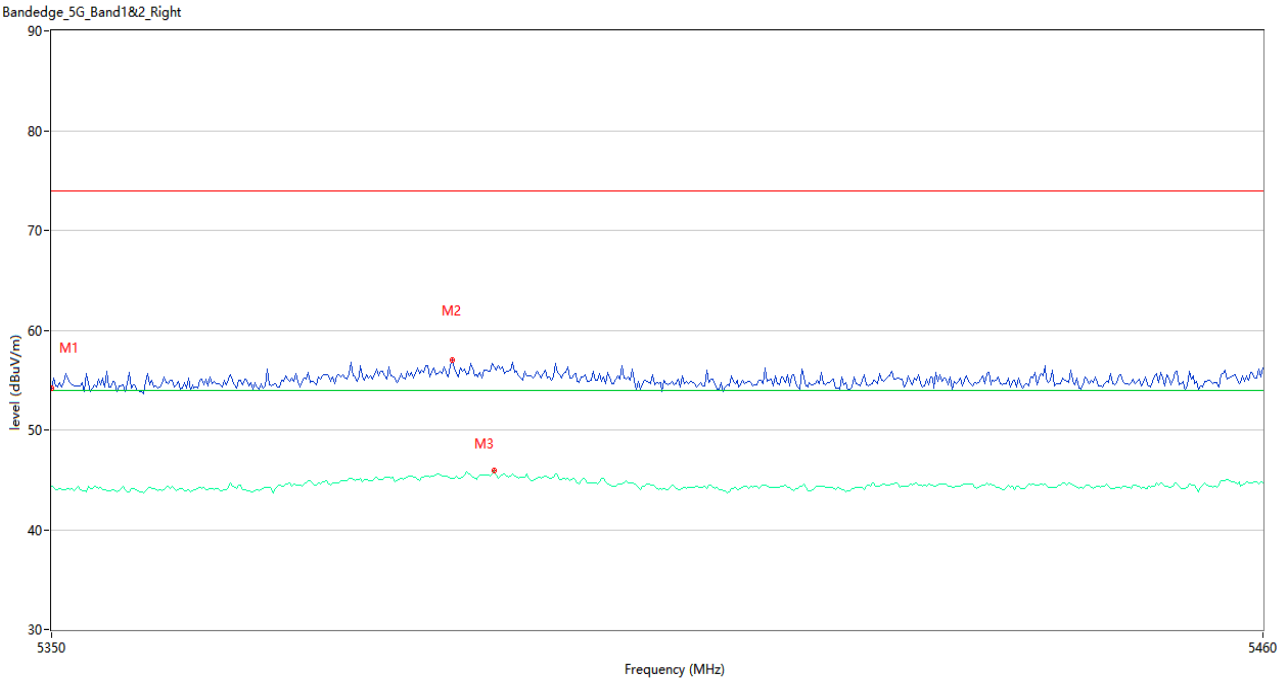
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.09	0.88	74.0	-18.91	Peak	221.00	150	Vertical	Pass
1**	5350.000	44.33	0.88	54.0	-9.67	AV	221.00	150	Vertical	Pass
2	5385.017	57.14	2.14	74.0	-16.86	Peak	276.00	150	Vertical	Pass
2**	5385.017	45.53	2.14	54.0	-8.47	AV	276.00	150	Vertical	Pass
3	5389.967	56.71	2.35	74.0	-17.29	Peak	208.00	150	Vertical	Pass
3**	5389.967	45.83	2.35	54.0	-8.17	AV	208.00	150	Vertical	Pass

U-NII-1 11n20 CH36



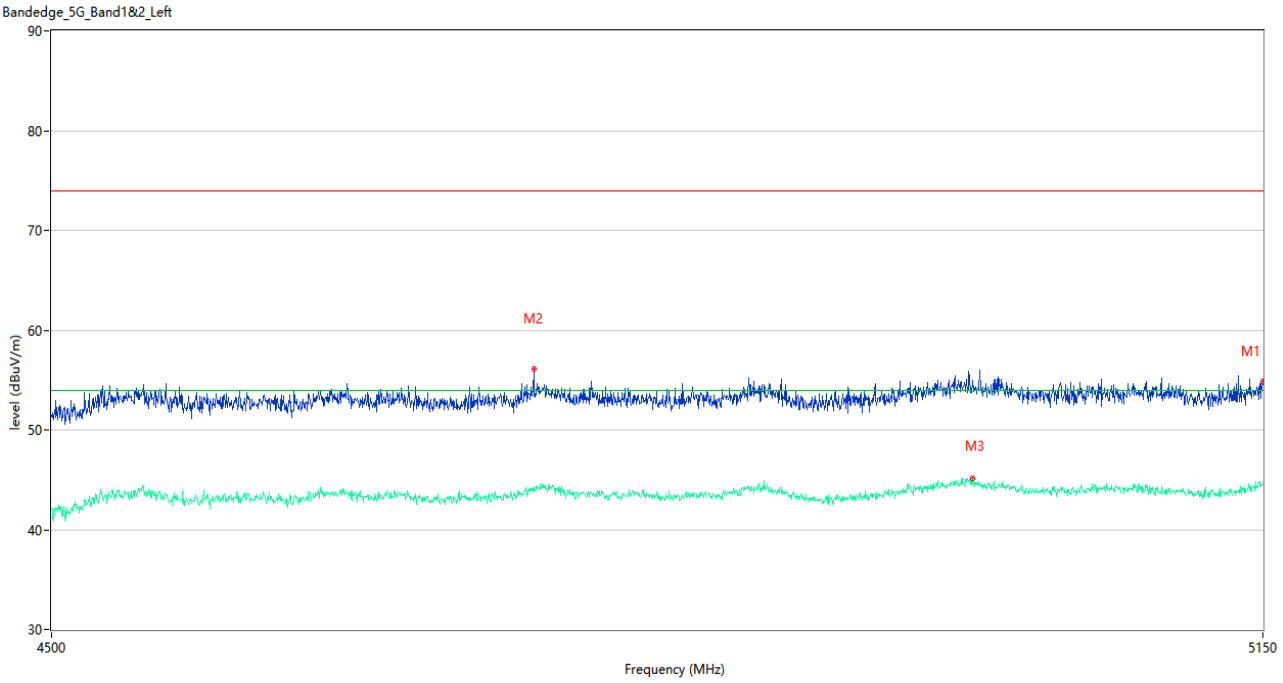
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.77	0.44	74.0	-19.23	Peak	198.00	150	Vertical	Pass
1**	5150.000	44.42	0.44	54.0	-9.58	AV	198.00	150	Vertical	Pass
2	5063.875	55.97	0.22	74.0	-18.03	Peak	189.00	150	Vertical	Pass
2**	5063.875	44.13	0.22	54.0	-9.87	AV	189.00	150	Vertical	Pass
3	4871.475	54.06	0.11	74.0	-19.94	Peak	214.00	150	Vertical	Pass
3**	4871.475	44.96	0.11	54.0	-9.04	AV	214.00	150	Vertical	Pass

U-NII-1 11n20 CH48



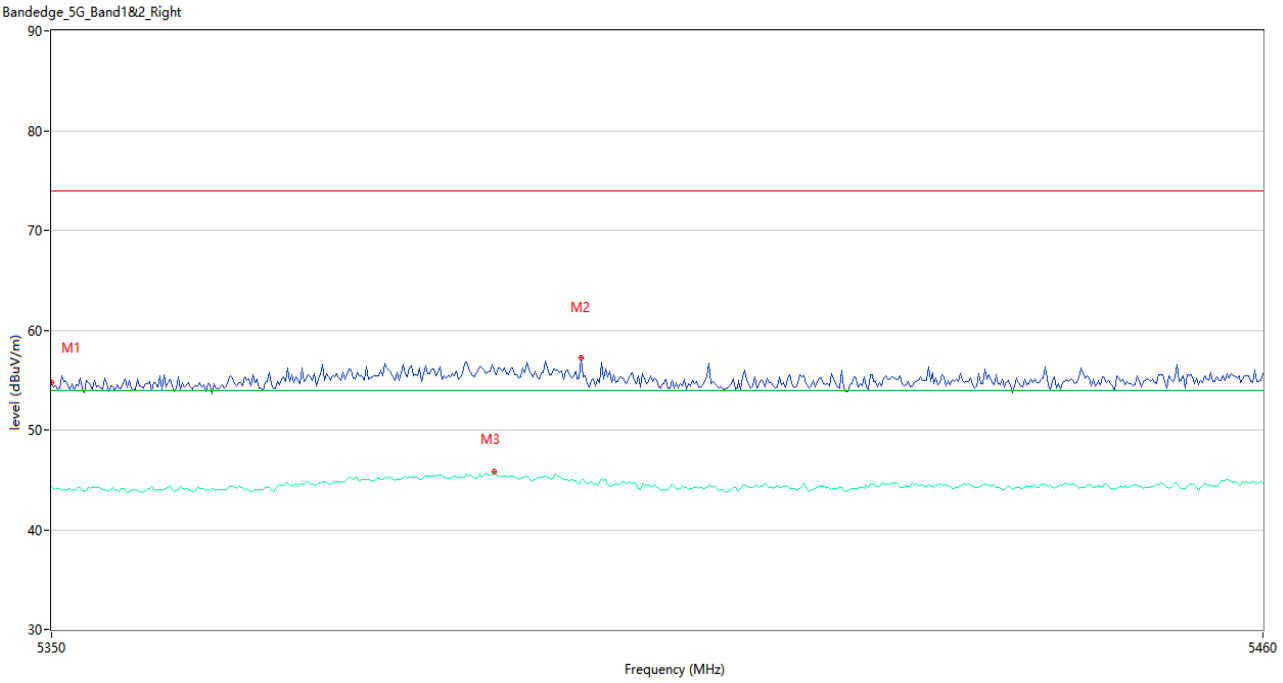
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.21	0.88	74.0	-19.79	Peak	9.00	150	Vertical	Pass
1**	5350.000	44.36	0.88	54.0	-9.64	AV	9.00	150	Vertical	Pass
2	5386.117	57.00	1.88	74.0	-17.00	Peak	226.00	150	Vertical	Pass
2**	5386.117	45.17	1.88	54.0	-8.83	AV	226.00	150	Vertical	Pass
3	5389.967	56.37	2.35	74.0	-17.63	Peak	209.00	150	Vertical	Pass
3**	5389.967	45.90	2.35	54.0	-8.10	AV	209.00	150	Vertical	Pass

U-NII-1 11n40 CH38



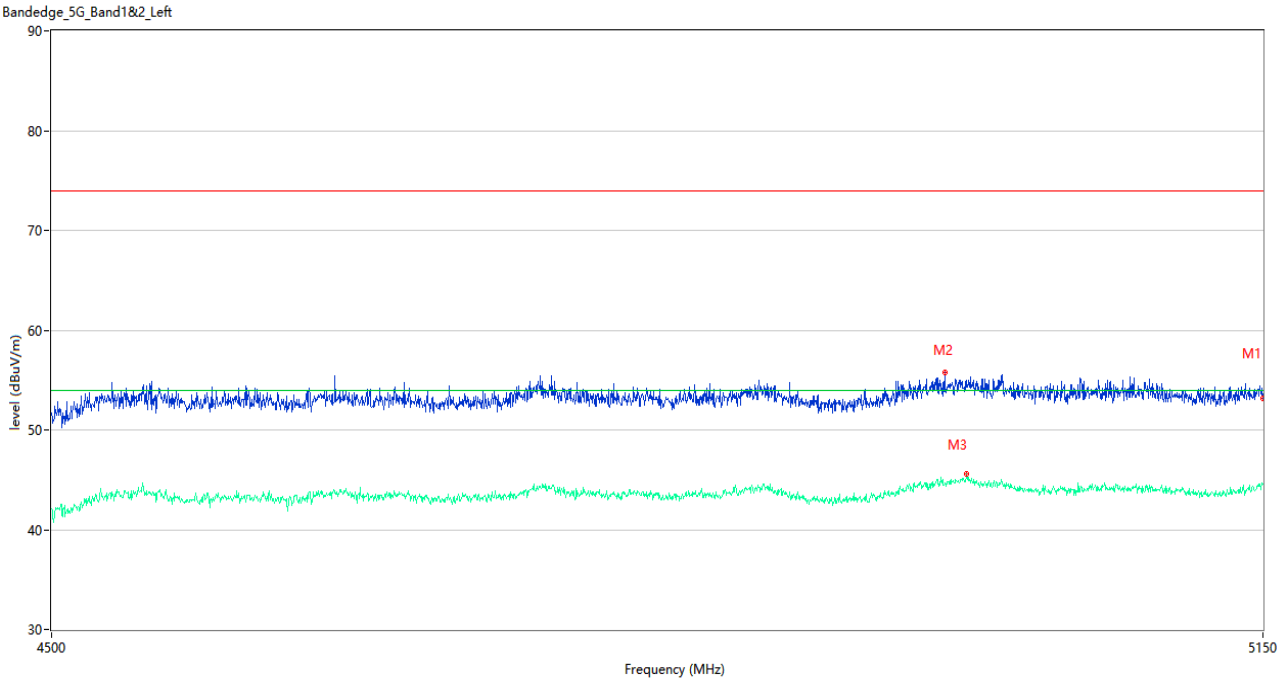
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.90	0.44	74.0	-19.10	Peak	360.00	150	Vertical	Pass
1**	5150.000	44.60	0.44	54.0	-9.40	AV	360.00	150	Vertical	Pass
2	4748.300	56.08	0.55	74.0	-17.92	Peak	125.00	150	Vertical	Pass
2**	4748.300	44.29	0.55	54.0	-9.71	AV	125.00	150	Vertical	Pass
3	4985.875	54.75	1.20	74.0	-19.25	Peak	243.00	150	Vertical	Pass
3**	4985.875	45.13	1.20	54.0	-8.87	AV	243.00	150	Vertical	Pass

U-NII-1 11n40 CH46



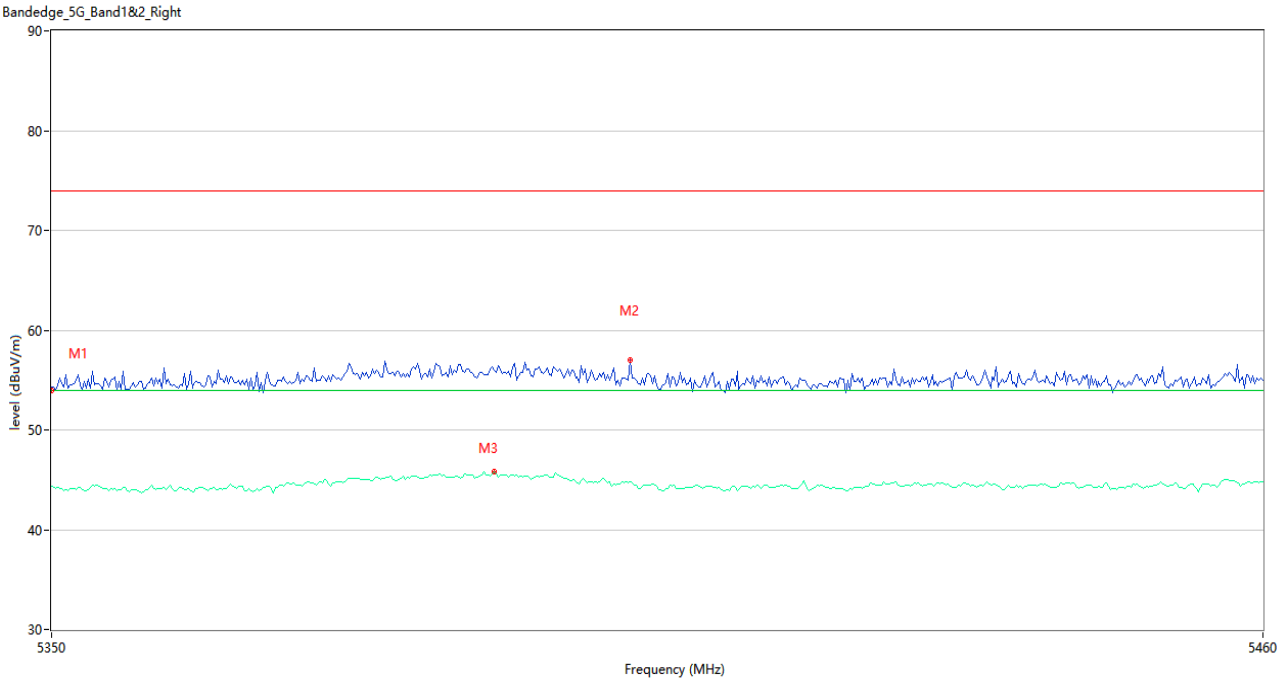
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.77	0.88	74.0	-19.23	Peak	273.00	150	Vertical	Pass
1**	5350.000	44.35	0.88	54.0	-9.65	AV	273.00	150	Vertical	Pass
2	5397.850	57.27	1.37	74.0	-16.73	Peak	193.00	150	Vertical	Pass
2**	5397.850	44.89	1.37	54.0	-9.11	AV	193.00	150	Vertical	Pass
3	5389.967	55.99	2.35	74.0	-18.01	Peak	334.00	150	Vertical	Pass
3**	5389.967	45.80	2.35	54.0	-8.20	AV	334.00	150	Vertical	Pass

U-NII-1 11ac20 CH36



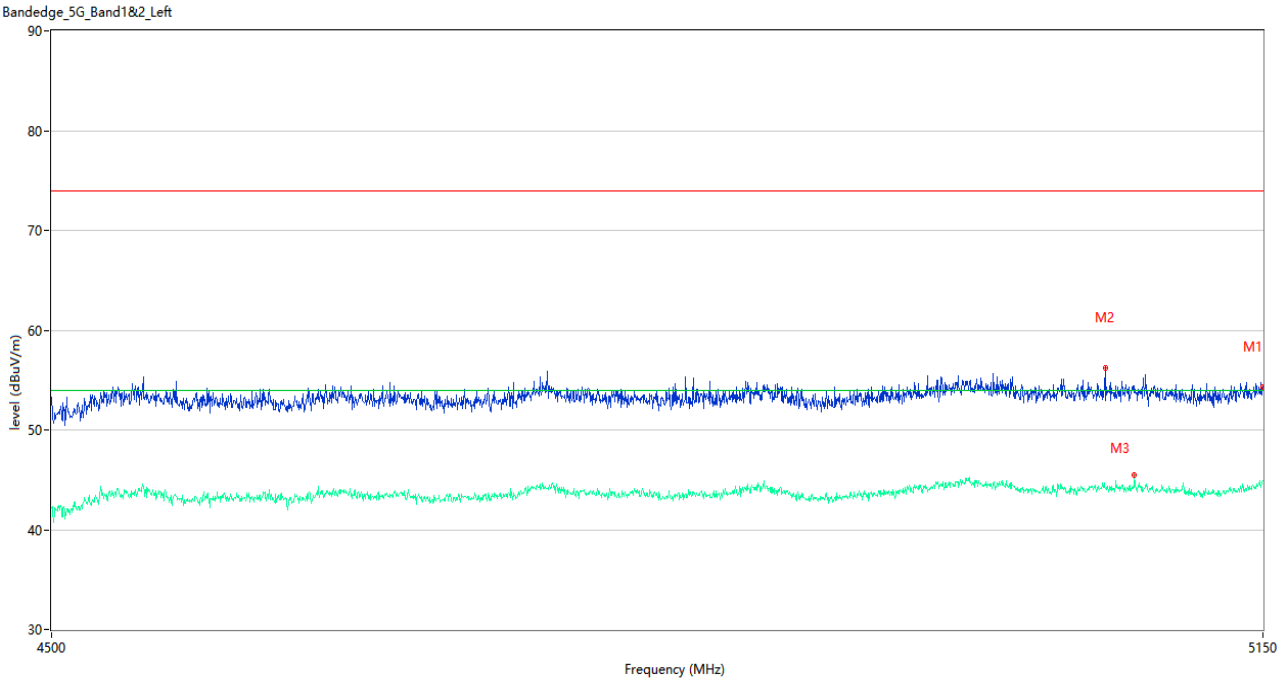
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	53.20	0.44	74.0	-20.80	Peak	91.00	150	Vertical	Pass
1**	5150.000	44.56	0.44	54.0	-9.44	AV	91.00	150	Vertical	Pass
2	4970.600	55.72	1.60	74.0	-18.28	Peak	123.00	150	Vertical	Pass
2**	4970.600	44.62	1.60	54.0	-9.38	AV	123.00	150	Vertical	Pass
3	4982.950	54.98	1.72	74.0	-19.02	Peak	332.00	150	Vertical	Pass
3**	4982.950	45.58	1.72	54.0	-8.42	AV	332.00	150	Vertical	Pass

U-NII-1 11ac20 CH48



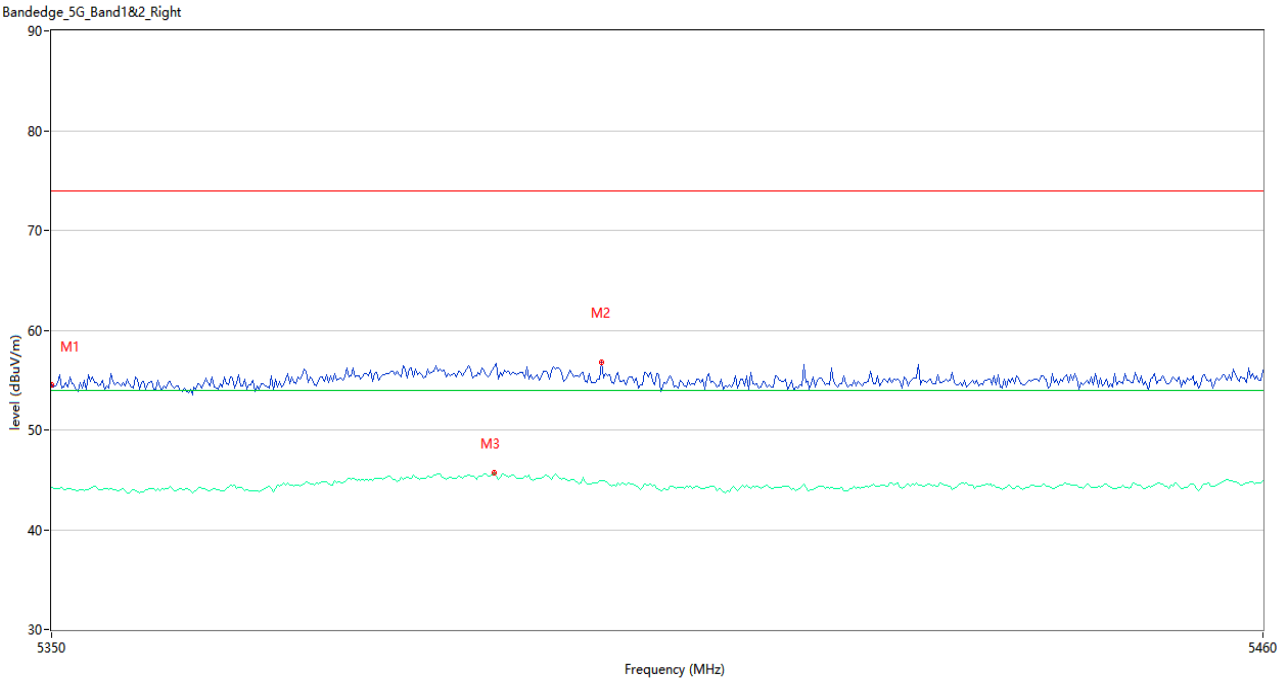
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.27	0.88	74.0	-19.73	Peak	203.00	150	Vertical	Pass
1**	5350.000	44.30	0.88	54.0	-9.70	AV	203.00	150	Vertical	Pass
2	5402.250	57.00	1.25	74.0	-17.00	Peak	327.00	150	Vertical	Pass
2**	5402.250	44.81	1.25	54.0	-9.19	AV	327.00	150	Vertical	Pass
3	5389.967	56.00	2.35	74.0	-18.00	Peak	171.00	150	Vertical	Pass
3**	5389.967	45.83	2.35	54.0	-8.17	AV	171.00	150	Vertical	Pass

U-NII-1 11ac40 CH38



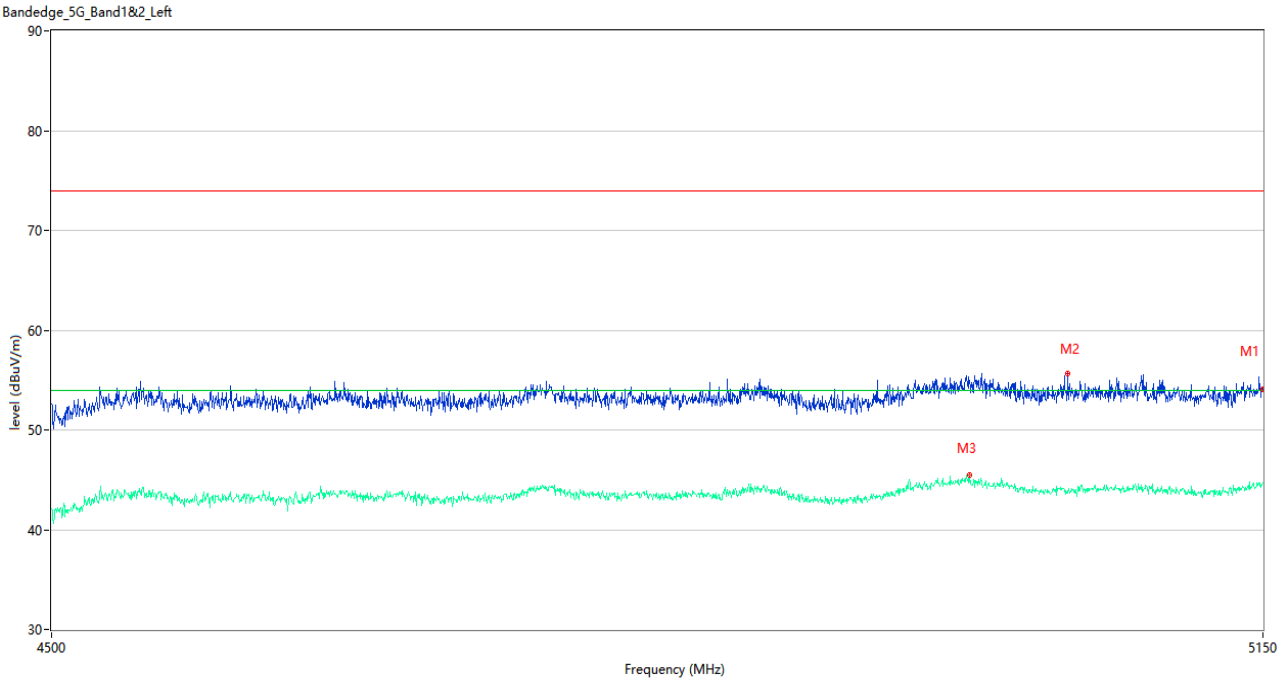
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.26	0.44	74.0	-19.74	Peak	0.00	150	Vertical	Pass
1**	5150.000	44.95	0.44	54.0	-9.05	AV	0.00	150	Vertical	Pass
2	5060.300	56.26	0.07	74.0	-17.74	Peak	245.00	150	Vertical	Pass
2**	5060.300	44.10	0.07	54.0	-9.90	AV	245.00	150	Vertical	Pass
3	5076.875	54.37	0.34	74.0	-19.63	Peak	304.00	150	Vertical	Pass
3**	5076.875	45.46	0.34	54.0	-8.54	AV	304.00	150	Vertical	Pass

U-NII-1 11ac40 CH46



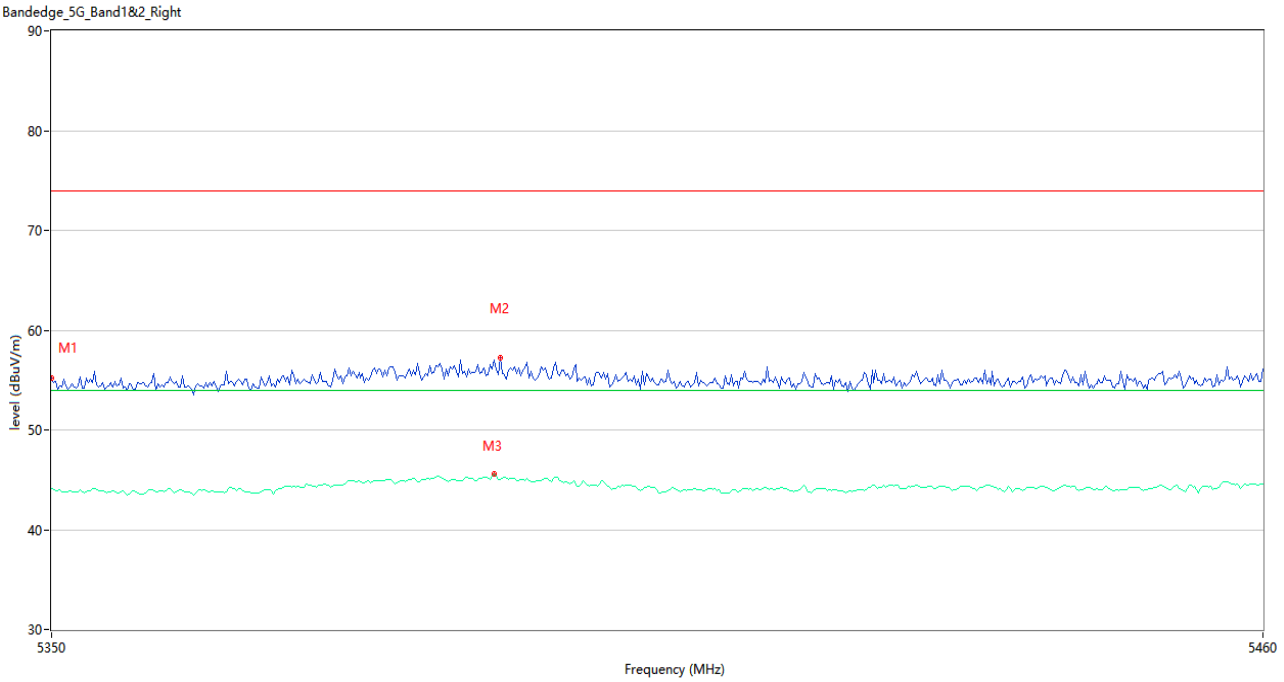
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.55	0.88	74.0	-19.45	Peak	243.00	150	Vertical	Pass
1**	5350.000	44.24	0.88	54.0	-9.76	AV	243.00	150	Vertical	Pass
2	5399.683	56.75	1.58	74.0	-17.25	Peak	207.00	150	Vertical	Pass
2**	5399.683	44.94	1.58	54.0	-9.06	AV	207.00	150	Vertical	Pass
3	5389.967	56.33	2.35	74.0	-17.67	Peak	96.00	150	Vertical	Pass
3**	5389.967	45.67	2.35	54.0	-8.33	AV	96.00	150	Vertical	Pass

U-NII-1 11ac80 CH42



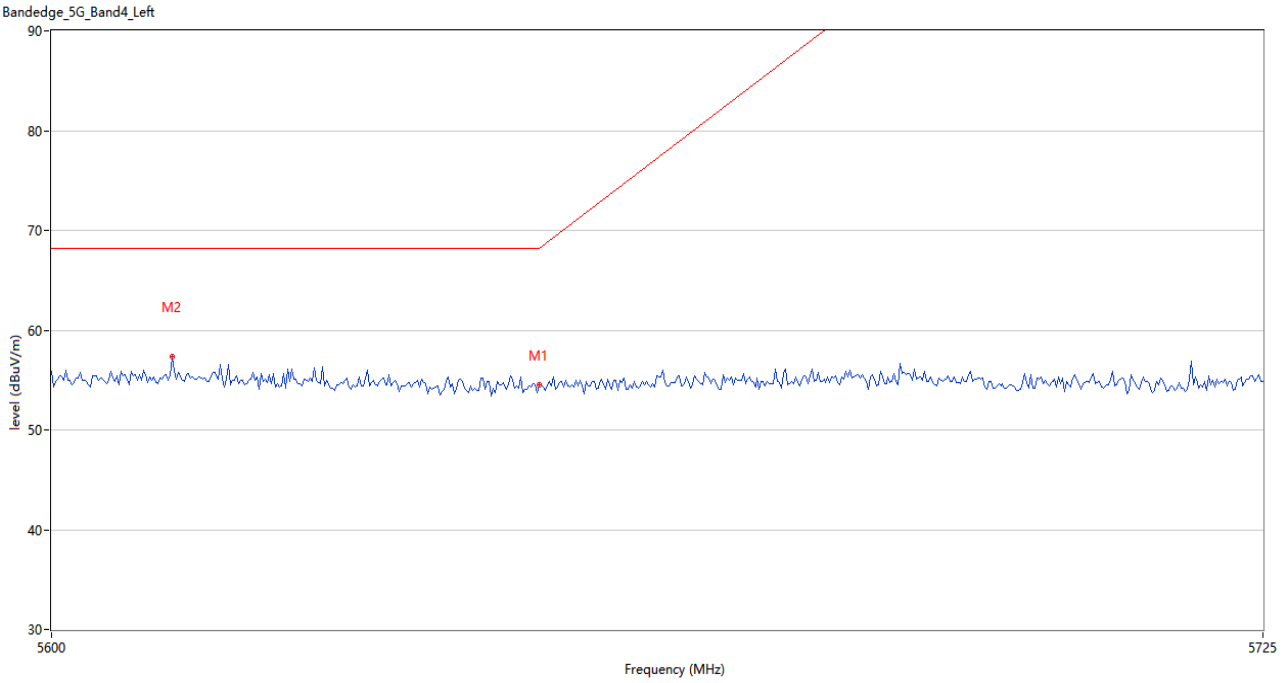
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.09	0.44	74.0	-19.91	Peak	258.00	150	Vertical	Pass
1**	5150.000	44.70	0.44	54.0	-9.30	AV	258.00	150	Vertical	Pass
2	5039.500	55.63	0.04	74.0	-18.37	Peak	178.00	150	Vertical	Pass
2**	5039.500	43.71	0.04	54.0	-10.29	AV	178.00	150	Vertical	Pass
3	4984.250	54.89	1.72	74.0	-19.11	Peak	198.00	150	Vertical	Pass
3**	4984.250	45.53	1.72	54.0	-8.47	AV	198.00	150	Vertical	Pass

U-NII-1 11ac80 CH42



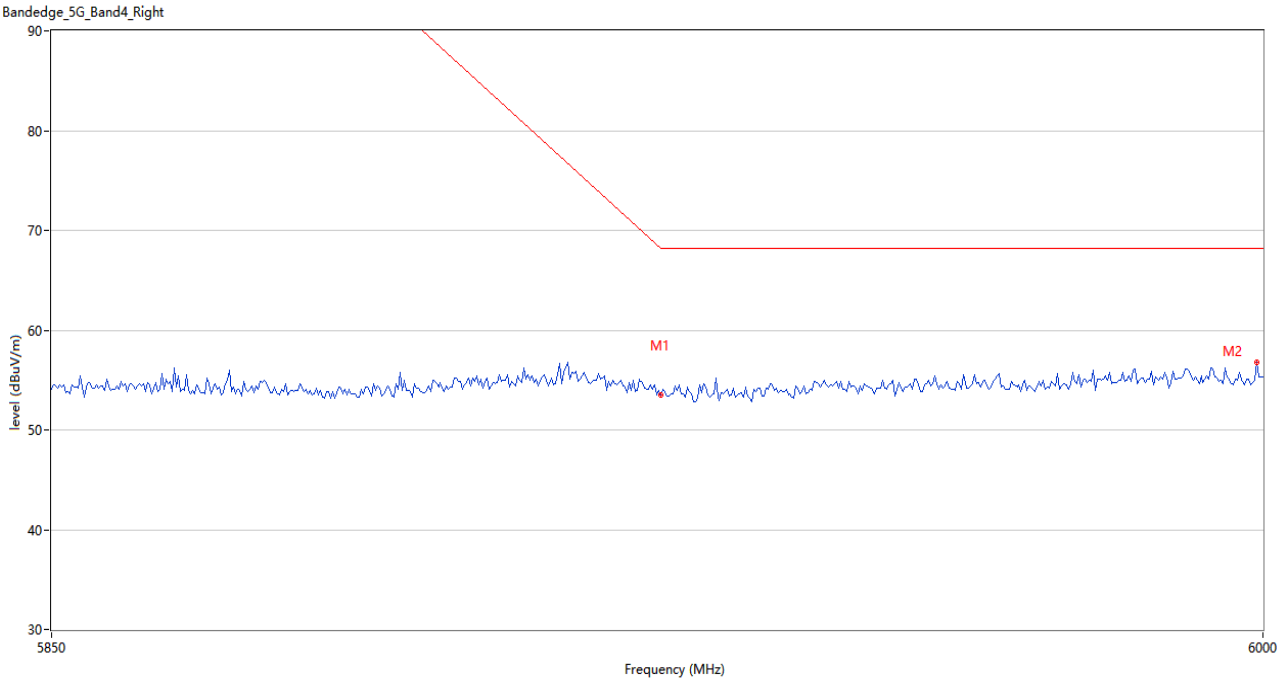
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.17	0.88	74.0	-18.83	Peak	80.00	150	Vertical	Pass
1**	5350.000	44.09	0.88	54.0	-9.91	AV	80.00	150	Vertical	Pass
2	5390.517	57.20	1.87	74.0	-16.80	Peak	204.00	150	Vertical	Pass
2**	5390.517	44.99	1.87	54.0	-9.01	AV	204.00	150	Vertical	Pass
3	5389.967	57.05	2.35	74.0	-16.95	Peak	13.00	150	Vertical	Pass
3**	5389.967	45.57	2.35	54.0	-8.43	AV	13.00	150	Vertical	Pass

U-NII-3 11a CH149



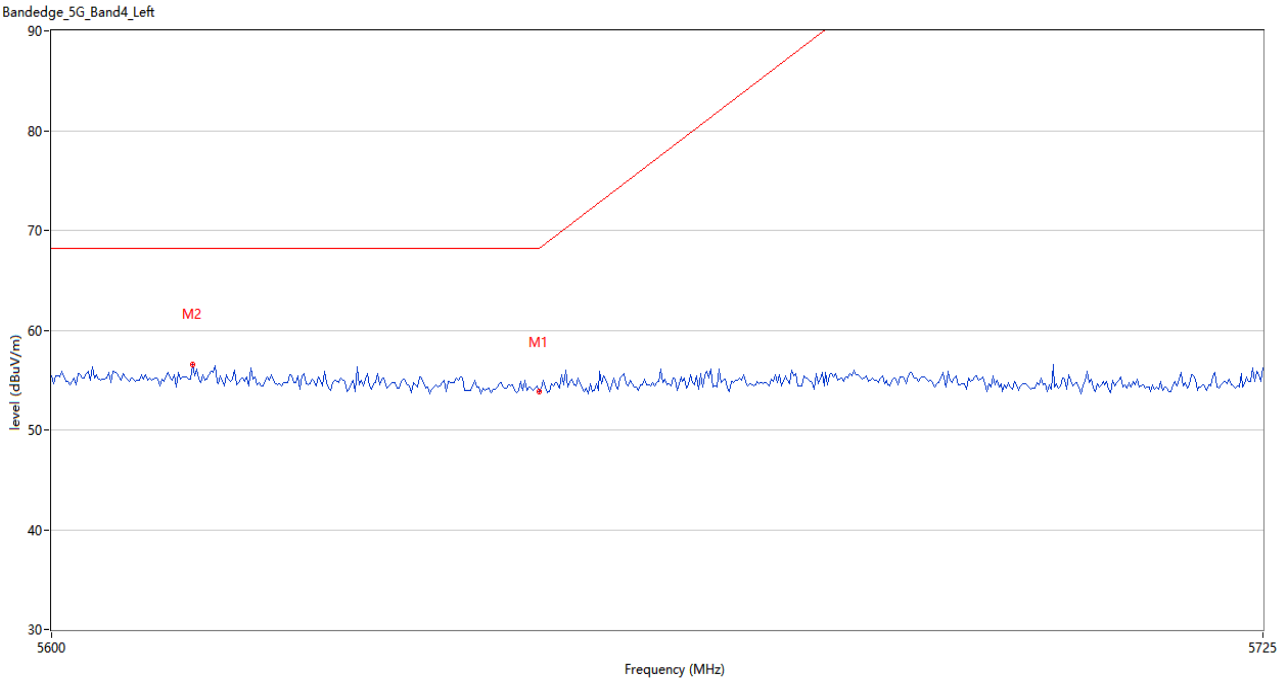
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.49	-0.21	68.2	-13.71	Peak	79.00	150	Vertical	Pass
2	5612.292	57.35	1.24	68.2	-10.85	Peak	278.00	150	Vertical	Pass

U-NII-3 11a CH165



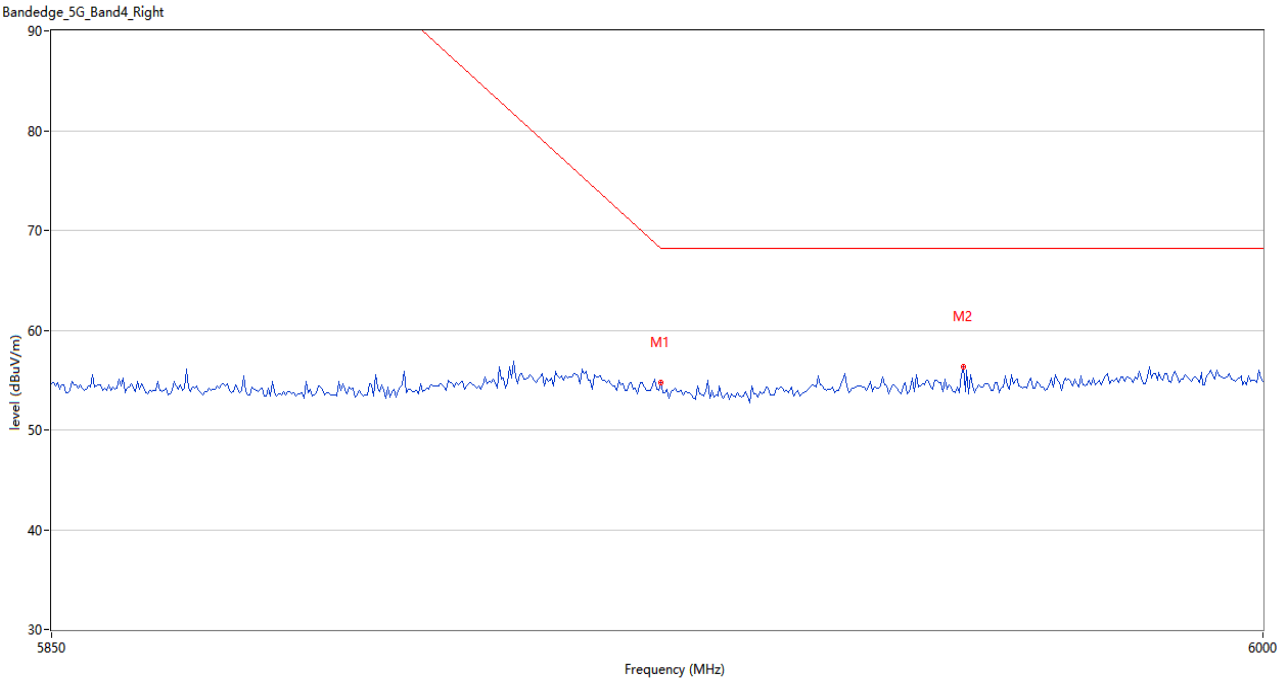
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	53.50	0.01	68.2	-14.70	Peak	360.00	150	Vertical	Pass
2	5999.250	56.75	0.76	68.2	-11.45	Peak	146.00	150	Vertical	Pass

U-NII-3 11n20 CH149



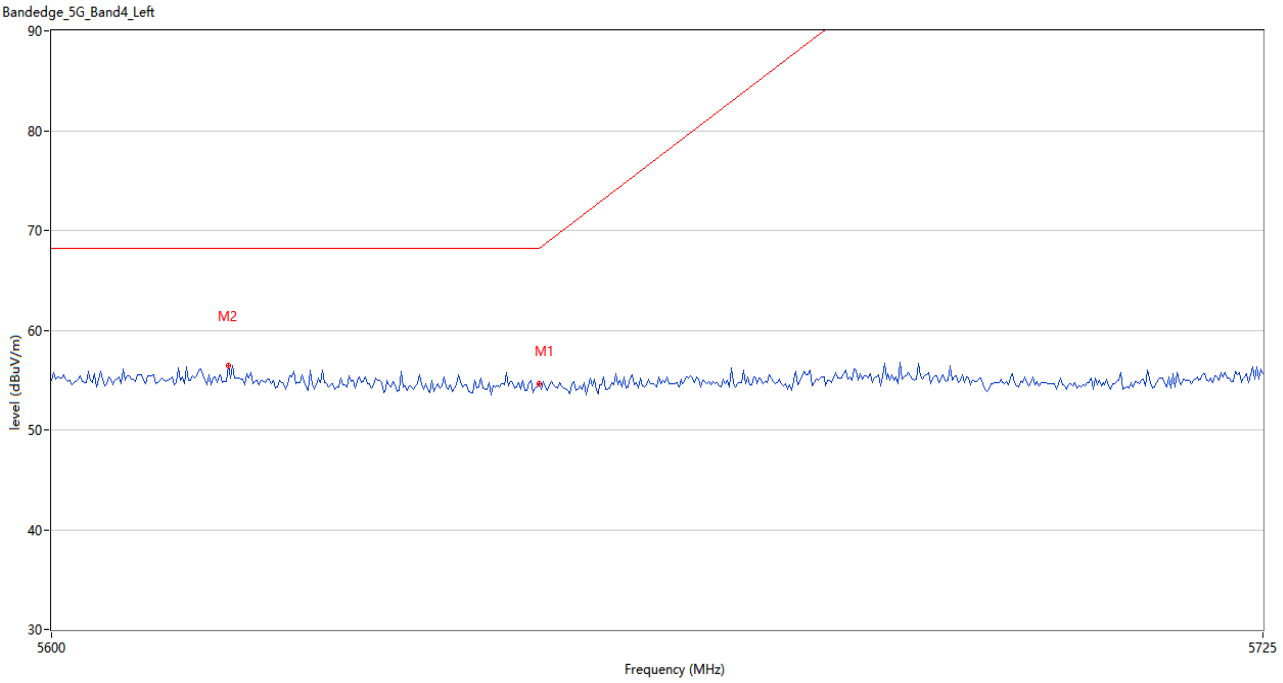
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	53.87	-0.21	68.2	-14.33	Peak	265.00	150	Vertical	Pass
2	5614.375	56.50	1.02	68.2	-11.70	Peak	144.00	150	Vertical	Pass

U-NII-3 11n20 CH165



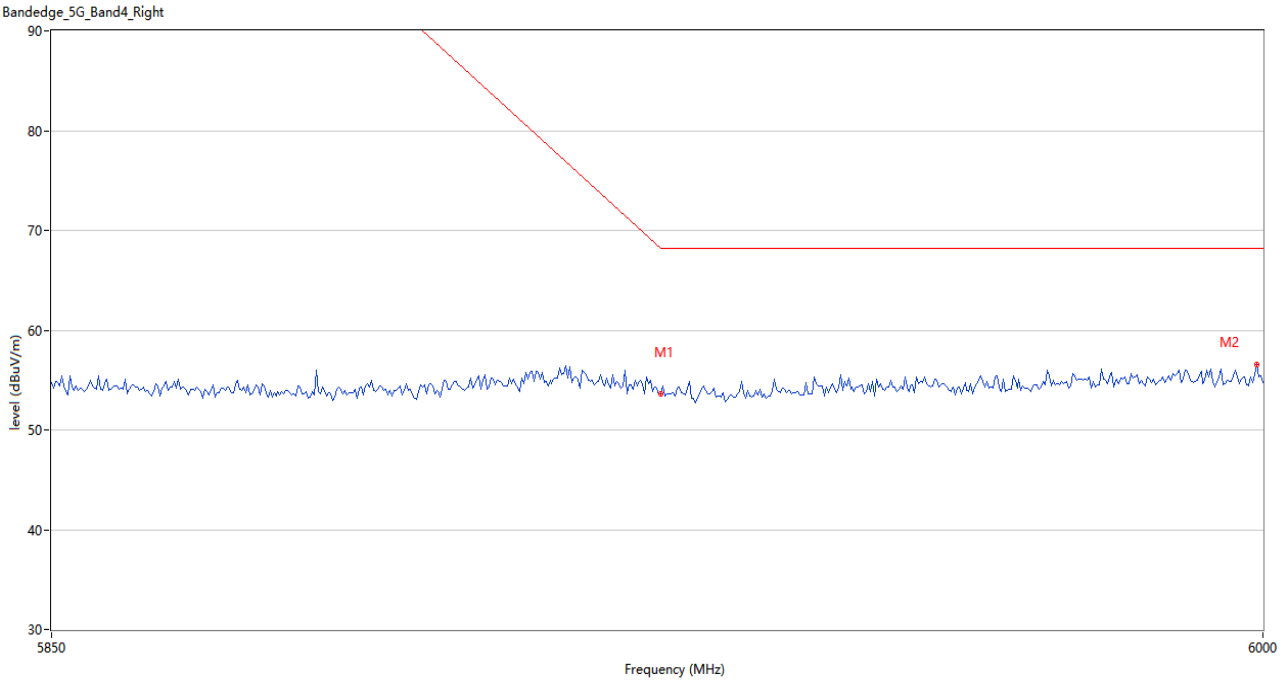
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.71	0.01	68.2	-13.49	Peak	292.00	150	Vertical	Pass
2	5962.500	56.38	-0.08	68.2	-11.82	Peak	104.00	150	Vertical	Pass

U-NII-3 11n40 CH151



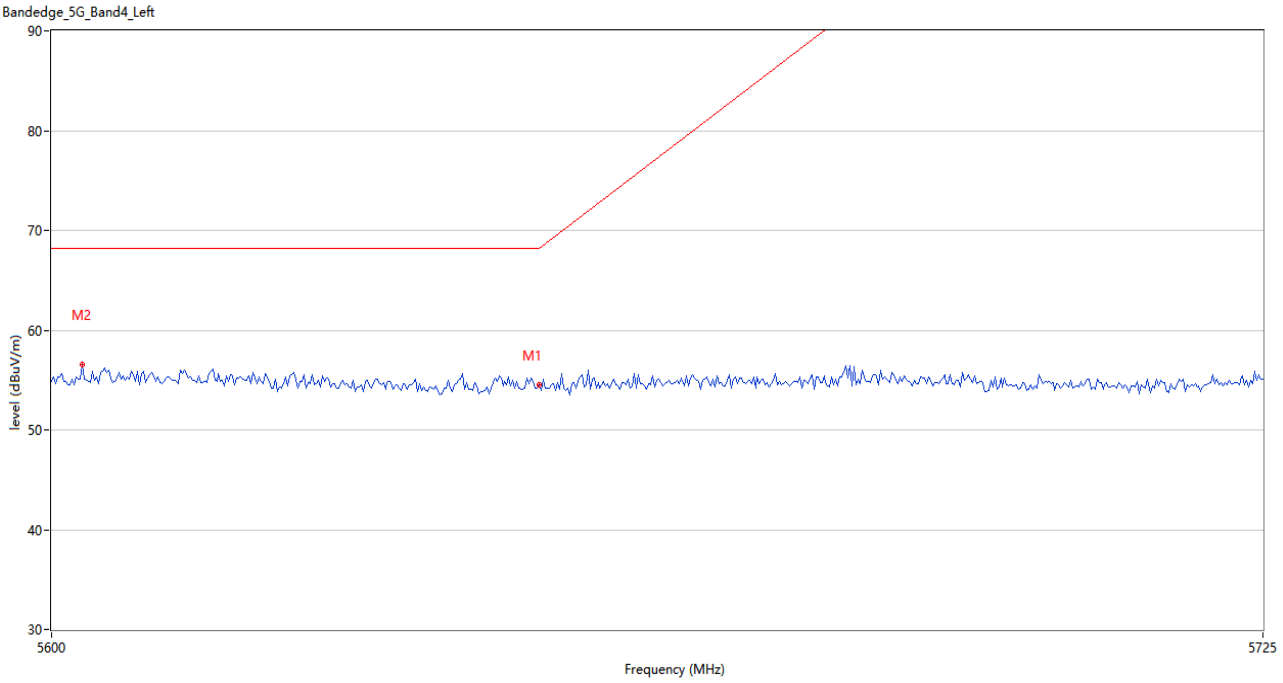
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.66	-0.21	68.2	-13.54	Peak	297.00	150	Vertical	Pass
2	5618.125	56.46	1.02	68.2	-11.74	Peak	228.00	150	Vertical	Pass

U-NII-3 11n40 CH159



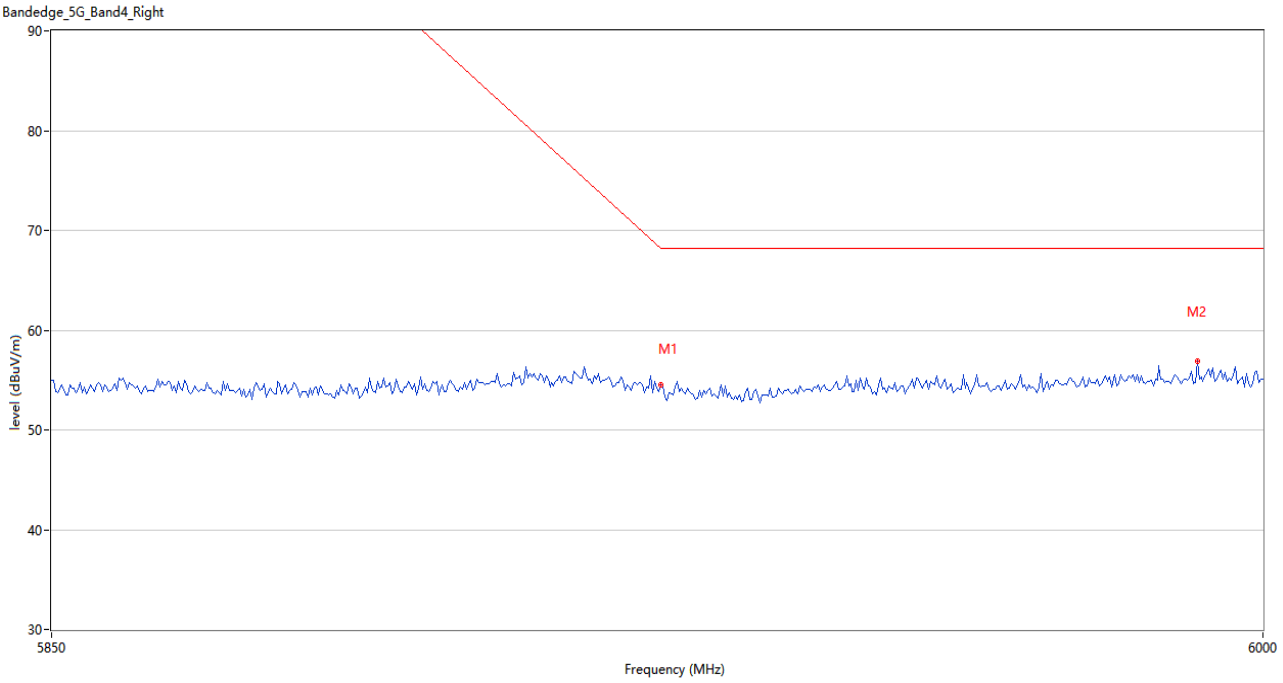
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	53.57	0.01	68.2	-14.63	Peak	157.00	150	Vertical	Pass
2	5999.250	56.53	0.76	68.2	-11.67	Peak	196.00	150	Vertical	Pass

U-NII-3 11ac20 CH149



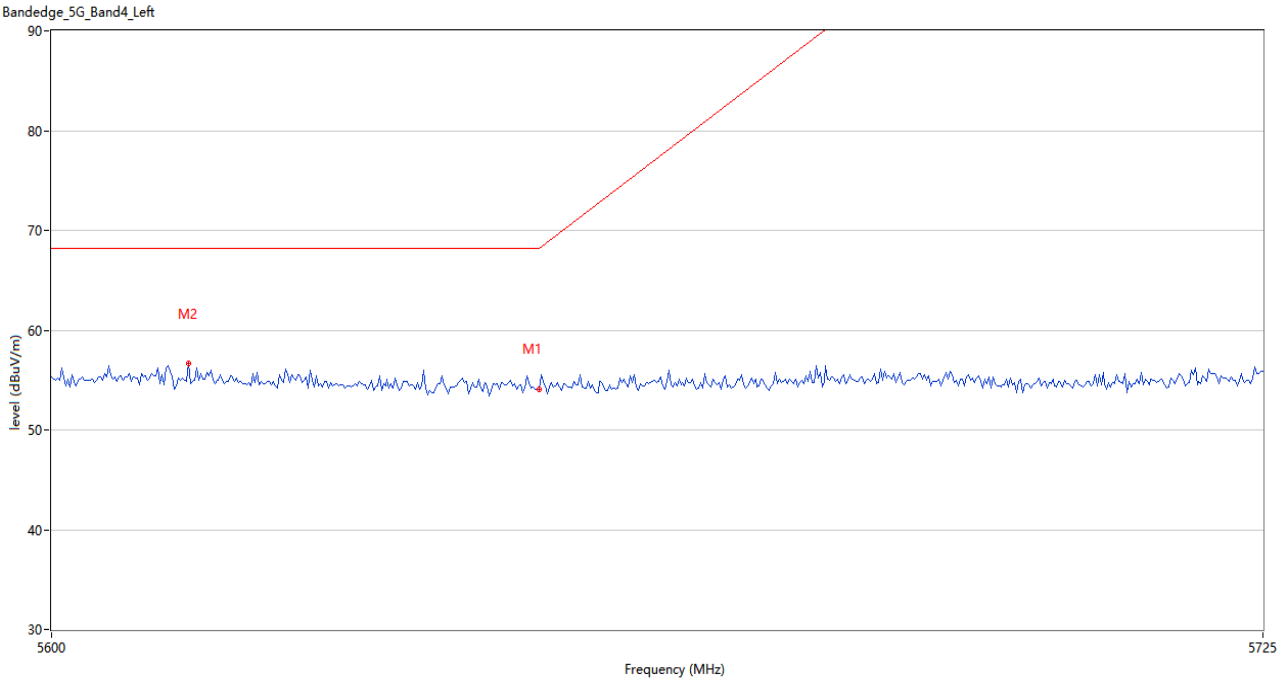
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.57	-0.21	68.2	-13.63	Peak	225.00	150	Vertical	Pass
2	5603.125	56.57	1.17	68.2	-11.63	Peak	138.00	150	Vertical	Pass

U-NII-3 11ac20 CH165



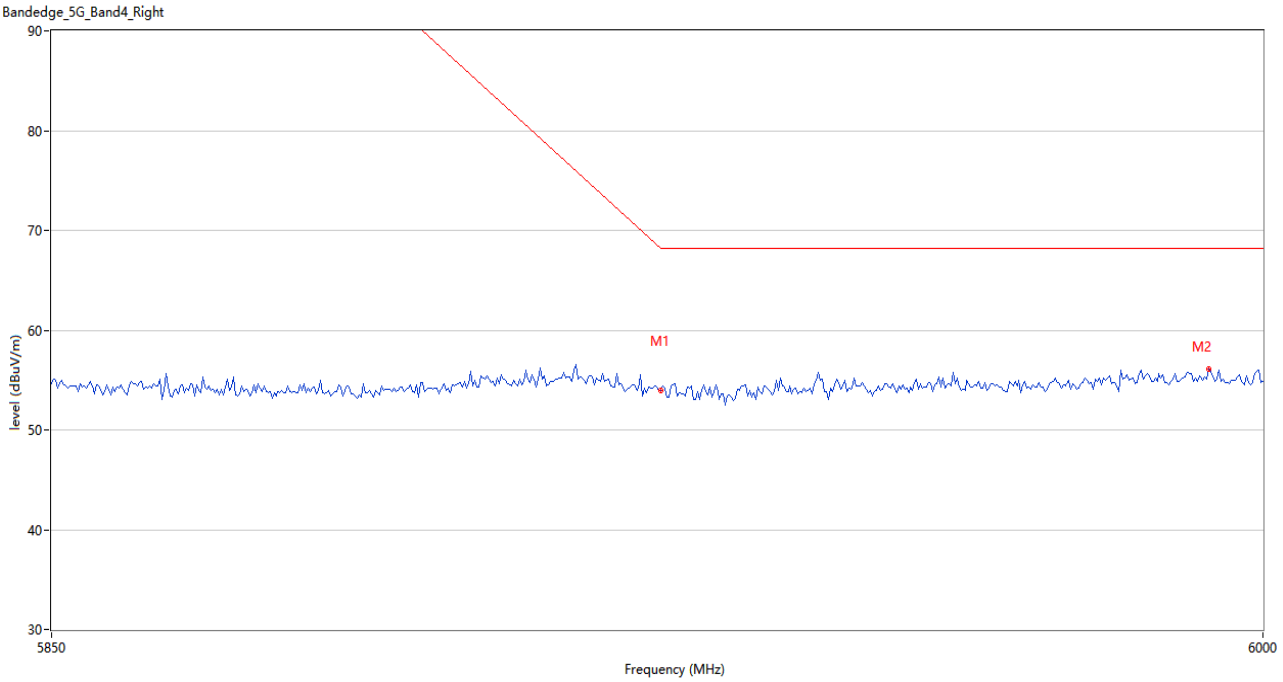
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.47	0.01	68.2	-13.73	Peak	153.00	150	Vertical	Pass
2	5991.750	56.89	0.48	68.2	-11.31	Peak	293.00	150	Vertical	Pass

U-NII-3 11ac40 CH151



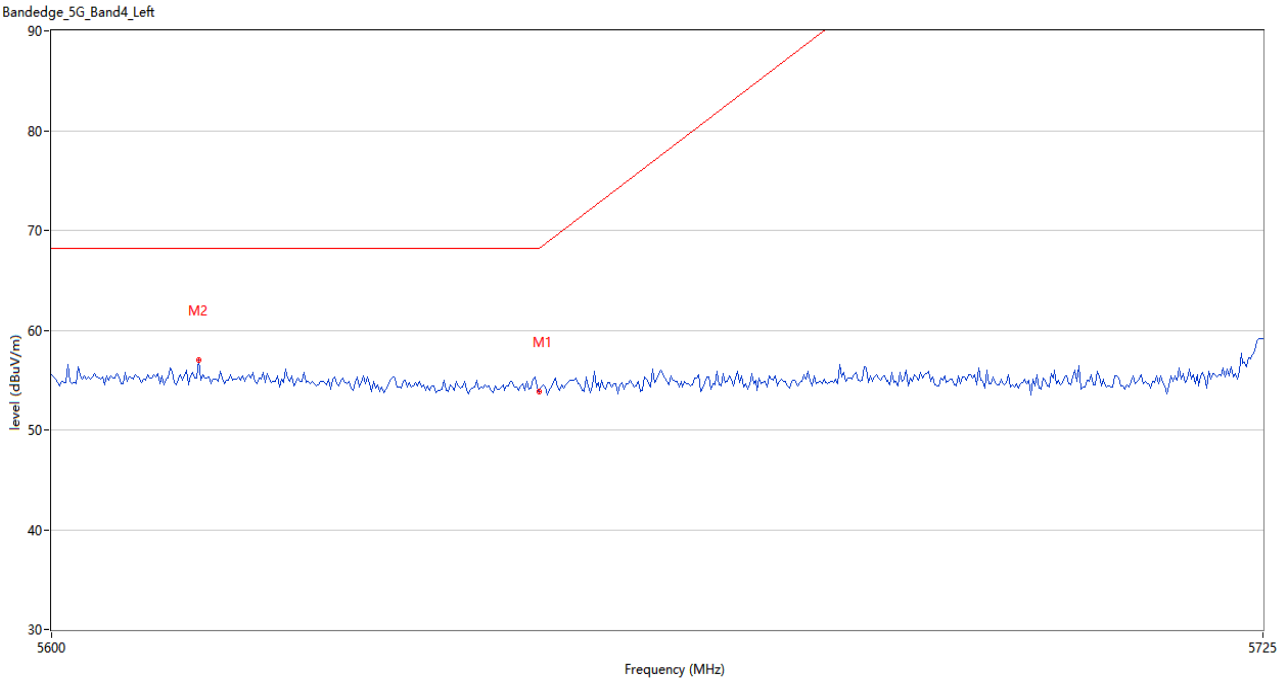
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	54.02	-0.21	68.2	-14.18	Peak	256.00	150	Vertical	Pass
2	5613.959	56.65	1.00	68.2	-11.55	Peak	339.00	150	Vertical	Pass

U-NII-3 11ac40 CH159



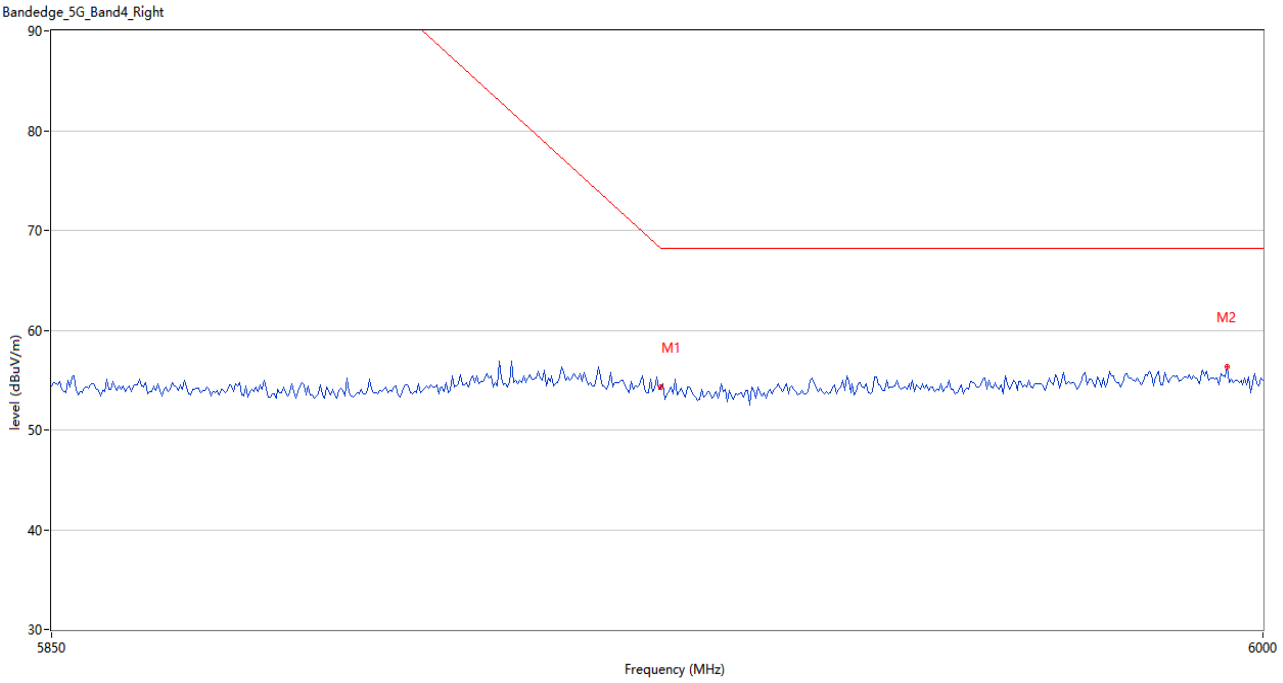
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	53.91	0.01	68.2	-14.29	Peak	272.00	150	Vertical	Pass
2	5993.250	56.09	0.93	68.2	-12.11	Peak	136.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	53.86	-0.21	68.2	-14.34	Peak	352.00	150	Vertical	Pass
2	5615.000	57.04	1.19	68.2	-11.16	Peak	283.00	150	Vertical	Pass

U-NII-3 11ac80 CH155



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	54.26	0.01	68.2	-13.94	Peak	262.00	150	Vertical	Pass
2	5995.500	56.32	0.65	68.2	-11.88	Peak	335.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2240596-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2240596-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2240596-AI.PDF”.

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the “inspection and testing dedicated stamp” or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--