

TEST REPORT

Applicant: MorningBlues Technology Limited
Address: Room 511, 5/F, Ming Sang Industrial Building, 19-21 Hing Yip Street, Kwun Tong, Kowloon, Hong Kong
Equipment Type: MorningBlues Music Hub C1
Model Name: MBTC02
Brand Name: MorningBlues
FCC ID: 2BLQA-MBTC02
ISED Number: 33155-MBTC02
Test Standard: 47 CFR Part 15 Subpart E
RSS-Gen Issue 5
RSS-247 Issue 4
(refer to section 3.1)
Sample Arrival Date: Jan. 30, 2026
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Yang Wenxuan**Checked by:** Ye Hongji**Approved by:** Tolan Tu
(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 21, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☒ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an 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. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The CAB identifier number is CN0030.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MorningBlues Technology Limited
Address	Room 511, 5/F, Ming Sang Industrial Building, 19-21 Hing Yip Street, kwun Tong, Kowloon, Hong Kong

2.2 Manufacturer Information

Manufacturer	MorningBlues Technology Limited
Address	Room 511, 5/F, Ming Sang Industrial Building, 19-21 Hing Yip Street, kwun Tong, Kowloon, Hong Kong

2.3 General Description for Equipment under Test (EUT)

EUT Name	MorningBlues Music Hub C1
Model Name Under Test	MBTC02
Series Model Name	N/A
Description of Model name differentiation	N/A
Serial Number	2501200000
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac and 802.11ax
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	☒ Mobile ☐ Portable ☐ Fix Location Indoor for IC standard
Modulation technology	OFDM, OFDMA
Modulation Type	1024QAM, 256QAM, 64QAM, 16QAM, BPSK, QPSK
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9 802.11ax up to 286.8 Mbps
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz 802.11ax: 20 MHz, 40 MHz
Maximum Output Power	U-NII-1: 46.34 mW U-NII-3: 49.55 mW
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: 3.36 dBi U-NII-3: 5725 MHz to 5850 MHz: 3.27 dBi
About the Product	The equipment is MorningBlues Music Hub C1, intended for used with information technology equipment.

802.11ax RU configuration table					
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242
802.11ax20	√	--	--	--	--
802.11ax40	√	--	--	--	--

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.5 Channel List

20 MHz		40 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190
40	5200	46	5230
44	5220	151	5755
48	5240	159	5795
149	5745		
153	5765		
157	5785		
161	5805		
165	5825		

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

For 802.11a/n(HT20)/ac(VHT20)/ax(HE20)

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)/ax(HE40)

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

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
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
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
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
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
	11ax(20 MHz)	4		N/A	165/157/149
	11ax(40 MHz)	8		N/A	159/151
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
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
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
	11ax(20 MHz)	4		48/44/36	165/157/149
	11ax(40 MHz)	8		46/38	159/151
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
	11ax(20 MHz)	4		48/36	165/149
	11ax(40 MHz)	8		46/38	159/151

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	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
3	RSS-247 Issue 4	Digital Transmission Systems, Frequency Hopping Systems and Licence Exempt Local Area Network Devices in 902-928 MHz, 2400-2483.5 MHz, 5150-5350 MHz, and 5470-5895 MHz bands
4	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
5	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	RSS Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	RSS-247, 7.3	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	RSS-247, 7.3	ANNEX A.1	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	RSS-247, 7.3	ANNEX A.2	Pass
4	6 dB bandwidth	15.407(e)	RSS-247, 7.3	ANNEX A.3	Pass
5	Power Spectral Density	15.407(a)	RSS-247, 7.3	ANNEX A.4	Pass
6	Conducted Emission	15.207	RSS-GEN, 8.8	ANNEX A.5	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	RSS-247, 7.3	ANNEX A.6	Pass
8	Receiver Spurious Emissions	--	RSS-Gen, 7.1.2	--	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	46% to 69%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.2℃ to +25.7℃
Working Voltage of the EUT	NV (Normal Voltage)	9 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2025.05.21	2026.05.20
Power meter	R&S	NRP8S	101498	2025.07.07	2026.07.06
Spectrum Analyzer	R&S	FSV40	101544	2025.10.30	2026.10.29
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2024.05.07	2026.05.06
Anechoic Chamber	YIHENG	C8-966	107	2024.05.12	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.04.16	2026.04.15
Filtering unit	balun	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
EMI Receiver	keysight	N9038B	MY61380132	2025.04.01	2026.03.31
LISN	SCHWARZBECK MESS- ELEKTRONIK	NSLK8127	01009	2025.07.15	2026.07.14
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4 m	235	2024.11.05	2027.11.04
EMI Receiver	ROHDE&SCHWA RZ	ESRP	101036	2025.06.16	2026.06.15
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2025.11.26	2026.11.25
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7. 35m	130	2024.07.13	2027.07.12

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V3.0.1.528	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

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

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

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

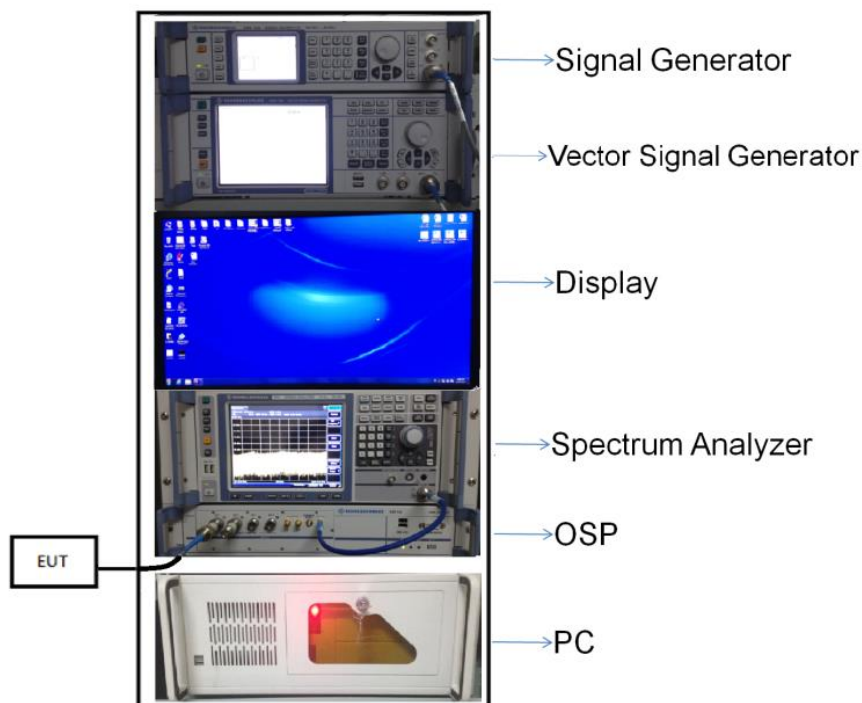
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

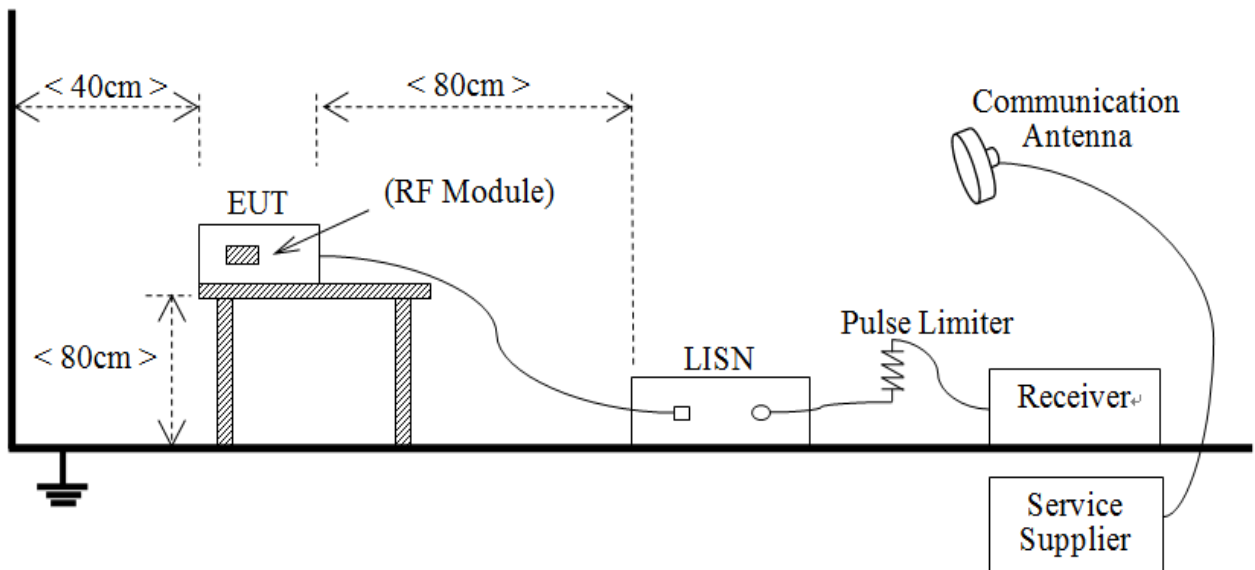
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



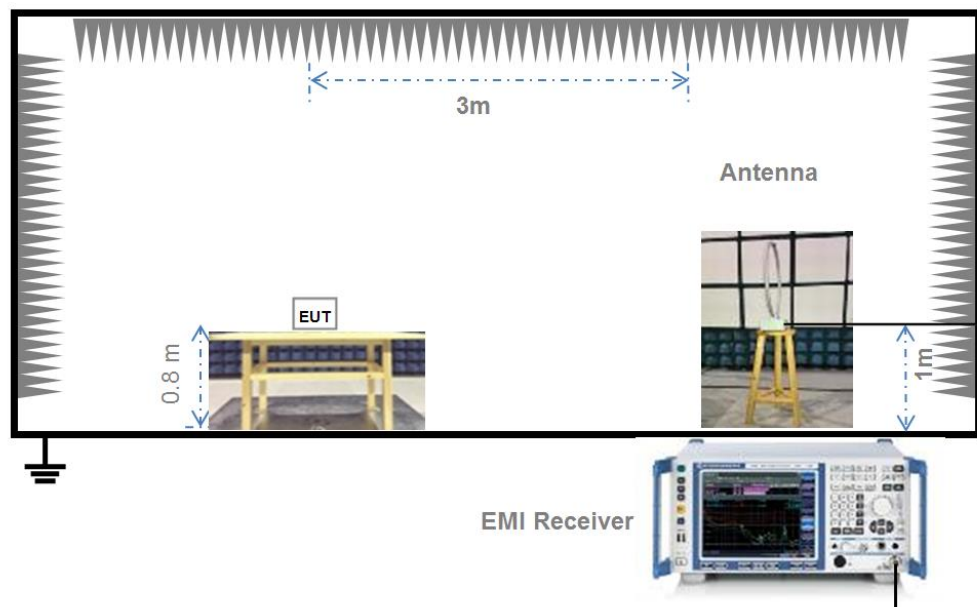
(Diagram 1)

4.5.2 For AC Power Supply Port Test



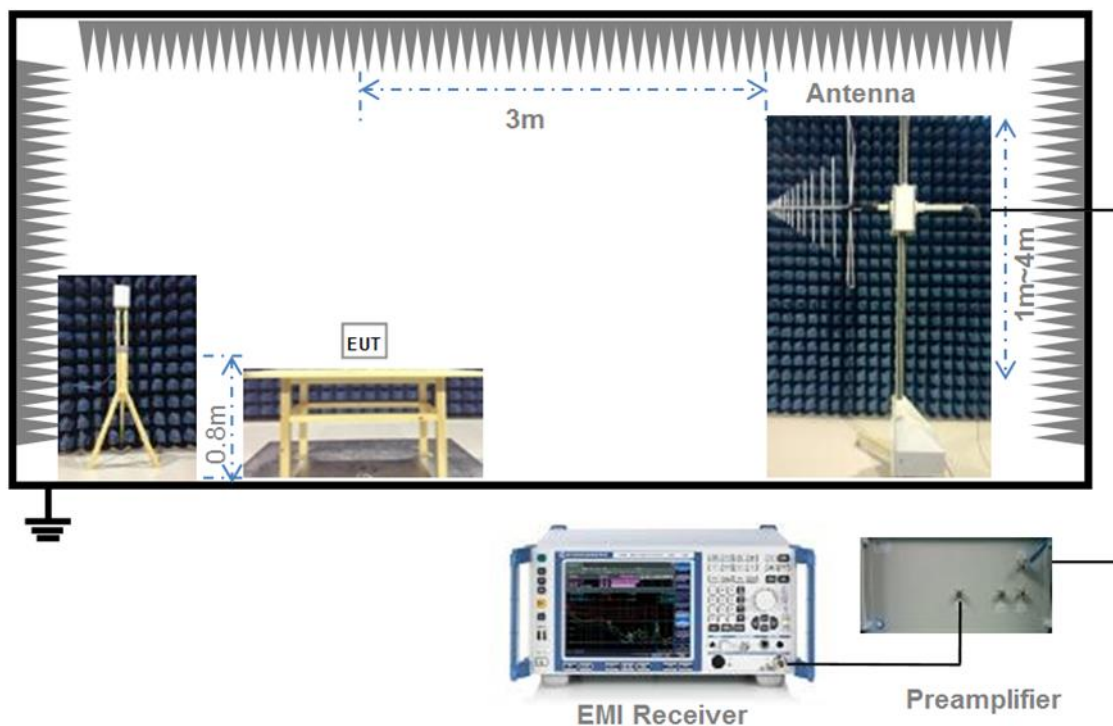
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



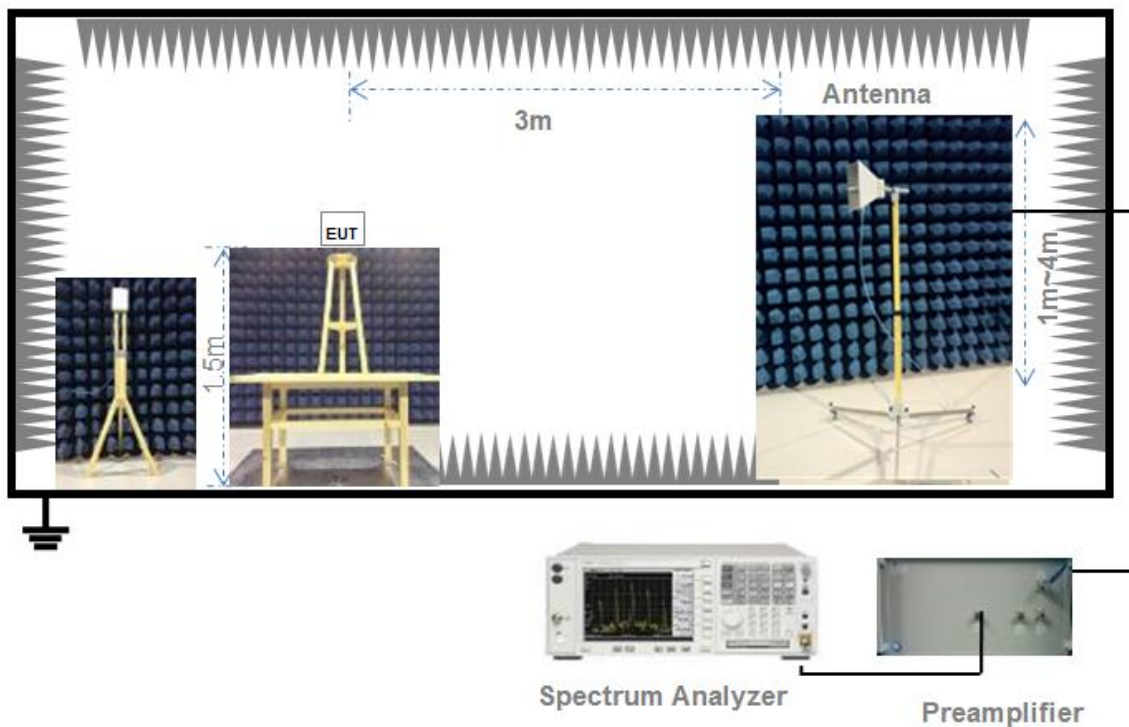
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

RSS-247, 7.3

The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
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 99% emissions bandwidth in MHz.	

The maximum e.i.r.p. shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	200 mW or 10 dBm + 10log B, whichever is less.
5250-5350	1W or 17 dBm + 10log B, whichever is less.
5470-5725	1W or 17 dBm + 10log B, whichever is less.
5725-5850	N/A
Note1: Where “B” is the 99% emissions bandwidth in MHz.	
Note2: EIRP= maximum conducted output power+ Antenna Gain.	

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

- 1) The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by

at least a factor of five.

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

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

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

Measurements of duty cycle

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

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

Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

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

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.10 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), RSS-247, 7.3

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

RSS-247, 7.3

The maximum power spectral density should not exceed:

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

The e.i.r.p. spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	10 dBm/MHz
5250-5350	N/A
5470-5725	N/A
5725-5850	N/A
e.i.r.p. spectral density= maximum power spectral density+ Antenna Gain.	

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ 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 C63.10 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, RSS-GEN, 8.8

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the U-NII-150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

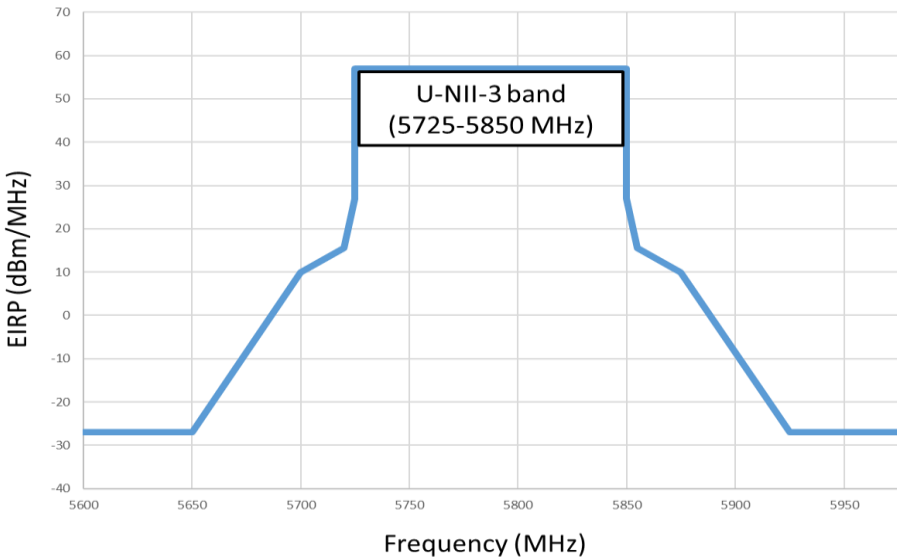
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 7.3

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note¹: The Limit for radiated test was performed according to FCC Part 15C

Note²: The tighter limit applies at the band edge.

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

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

E = electric field strength in dB μ V/m,

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable emission limits using a peak detector.

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

If continuous transmission of the EUT (i.e., duty cycle ≥ 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 $\geq 3 \times$ RBW.
 - e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
 - f) Averaging type = power (i.e., RMS).
- 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.

g) Sweep time = auto.

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated

measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

Note 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.

Note ²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ³: For IC standard, the U-NII-3 (5725 - 5850 MHz) maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	50.11	50.11	100.00%	0.00
11n(HT20)/11ac(VHT20)	50.11	50.11	100.00%	0.00
11n(HT40)/11ac(VHT40)	50.11	50.11	100.00%	0.00
11ax(HE20)	50.11	50.11	100.00%	0.00
11ax(HE40)	50.11	50.11	100.00%	0.00

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.41	43.75	250	Pass
11a	CH44	16.66	46.34	250	Pass
11a	CH48	16.46	44.26	250	Pass
11n(HT20)	CH36	16.36	43.25	250	Pass
11n(HT20)	CH44	16.47	44.36	250	Pass
11n(HT20)	CH48	16.44	44.06	250	Pass
11n(HT40)	CH38	15.02	31.77	250	Pass
11n(HT40)	CH46	15.13	32.58	250	Pass
11ac(VHT20)	CH36	16.25	42.17	250	Pass
11ac(VHT20)	CH44	16.24	42.07	250	Pass
11ac(VHT20)	CH48	16.32	42.85	250	Pass
11ac(VHT40)	CH38	15.26	33.57	250	Pass
11ac(VHT40)	CH46	15.36	34.36	250	Pass
11ax(HE20)(SU)	CH36	16.35	43.15	250	Pass
11ax(HE20)(SU)	CH44	16.34	43.05	250	Pass
11ax(HE20)(SU)	CH48	16.20	41.69	250	Pass
11ax(HE40)(SU)	CH38	15.15	32.73	250	Pass
11ax(HE40)(SU)	CH46	15.18	32.96	250	Pass

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	IC Limit (mW)	Verdict
11a	CH149	16.29	42.56	1000	1000	Pass
11a	CH157	16.14	41.11	1000	1000	Pass
11a	CH165	15.99	39.72	1000	1000	Pass
11n(HT20)	CH149	16.29	42.56	1000	1000	Pass
11n(HT20)	CH157	16.13	41.02	1000	1000	Pass
11n(HT20)	CH165	16.92	49.20	1000	1000	Pass
11n(HT40)	CH151	15.74	37.50	1000	1000	Pass
11n(HT40)	CH159	15.64	36.64	1000	1000	Pass
11ac(VHT20)	CH149	16.90	48.98	1000	1000	Pass
11ac(VHT20)	CH157	16.65	46.24	1000	1000	Pass
11ac(VHT20)	CH165	16.48	44.46	1000	1000	Pass
11ac(VHT40)	CH151	15.75	37.58	1000	1000	Pass
11ac(VHT40)	CH159	15.62	36.48	1000	1000	Pass
11ax(HE20)(SU)	CH149	16.24	42.07	1000	1000	Pass
11ax(HE20)(SU)	CH157	16.95	49.55	1000	1000	Pass
11ax(HE20)(SU)	CH165	16.79	47.75	1000	1000	Pass
11ax(HE40)(SU)	CH151	15.15	32.73	1000	1000	Pass
11ax(HE40)(SU)	CH159	15.10	32.36	1000	1000	Pass

E.I.R.P

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	E.I.R.P Limit (mW)	Verdict
11a	CH36	16.41	43.75	164	Pass
11a	CH44	16.66	46.34	164	Pass
11a	CH48	16.46	44.26	164	Pass
11n(HT20)	CH36	16.36	43.25	176	Pass
11n(HT20)	CH44	16.47	44.36	176	Pass
11n(HT20)	CH48	16.44	44.06	176	Pass
11n(HT40)	CH38	15.02	31.77	200	Pass
11n(HT40)	CH46	15.13	32.58	200	Pass
11ac(VHT20)	CH36	16.25	42.17	176	Pass
11ac(VHT20)	CH44	16.24	42.07	176	Pass
11ac(VHT20)	CH48	16.32	42.85	176	Pass
11ac(VHT40)	CH38	15.26	33.57	200	Pass
11ac(VHT40)	CH46	15.36	34.36	200	Pass
11ax(HE20)(SU)	CH36	16.35	43.15	190	Pass
11ax(HE20)(SU)	CH44	16.34	43.05	190	Pass
11ax(HE20)(SU)	CH48	16.20	41.69	190	Pass
11ax(HE40)(SU)	CH38	15.15	32.73	200	Pass
11ax(HE40)(SU)	CH46	15.18	32.96	200	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	E.I.R.P (dBm)	E.I.R.P (mW)	Verdict
11a	CH149	16.29	42.56	Pass
11a	CH157	16.14	41.11	Pass
11a	CH165	15.99	39.72	Pass
11n(HT20)	CH149	16.29	42.56	Pass
11n(HT20)	CH157	16.13	41.02	Pass
11n(HT20)	CH165	16.92	49.20	Pass
11n(HT40)	CH151	15.74	37.50	Pass
11n(HT40)	CH159	15.64	36.64	Pass
11ac(VHT20)	CH149	16.90	48.98	Pass
11ac(VHT20)	CH157	16.65	46.24	Pass
11ac(VHT20)	CH165	16.48	44.46	Pass
11ac(VHT40)	CH151	15.75	37.58	Pass
11ac(VHT40)	CH159	15.62	36.48	Pass
11ax(HE20)(SU)	CH149	16.24	42.07	Pass
11ax(HE20)(SU)	CH157	16.95	49.55	Pass
11ax(HE20)(SU)	CH165	16.79	47.75	Pass
11ax(HE40)(SU)	CH151	15.15	32.73	Pass
11ax(HE40)(SU)	CH159	15.10	32.36	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ25A0651-604 Data Part 1.pdf”.

Note ²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	16.38	16.37
11a	CH44	16.39	16.37
11a	CH48	16.38	16.37
11n(HT20)	CH36	17.62	17.61
11n(HT20)	CH44	17.62	17.61
11n(HT20)	CH48	17.62	17.61
11n(HT40)	CH38	36.21	36.19
11n(HT40)	CH46	36.20	36.19
11ac(VHT20)	CH36	17.62	17.61
11ac(VHT20)	CH44	17.62	17.60
11ac(VHT20)	CH48	17.62	17.61
11ac(VHT40)	CH38	36.20	36.19
11ac(VHT40)	CH46	36.20	36.19
11ax(HE20)(SU)	CH36	19.05	18.98
11ax(HE20)(SU)	CH44	19.05	18.98
11ax(HE20)(SU)	CH48	19.05	18.98
11ax(HE40)(SU)	CH38	37.89	37.83
11ax(HE40)(SU)	CH46	37.88	37.83

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	16.38	16.36
11a	CH157	16.38	16.37
11a	CH165	16.38	16.37
11n(HT20)	CH149	17.62	17.60
11n(HT20)	CH157	17.62	17.60
11n(HT20)	CH165	17.62	17.61
11n(HT40)	CH151	36.21	36.19
11n(HT40)	CH159	36.21	36.19
11ac(VHT20)	CH149	17.62	17.60
11ac(VHT20)	CH157	17.62	17.60
11ac(VHT20)	CH165	17.62	17.60
11ac(VHT40)	CH151	36.21	36.19
11ac(VHT40)	CH159	36.21	36.19
11ax(HE20)(SU)	CH149	19.04	18.98
11ax(HE20)(SU)	CH157	19.05	18.98
11ax(HE20)(SU)	CH165	19.05	18.98
11ax(HE40)(SU)	CH151	37.89	37.83
11ax(HE40)(SU)	CH159	37.89	37.83

A.3 6 dB Bandwidth

Note¹: Test plots please refer to the document “Annex No.: BL-SZ25A0651-604 Data Part 2.pdf”.

Note²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.60	500.00	Pass
11a	CH157	16.60	500.00	Pass
11a	CH165	16.60	500.00	Pass
11n(HT20)	CH149	17.80	500.00	Pass
11n(HT20)	CH157	17.80	500.00	Pass
11n(HT20)	CH165	17.90	500.00	Pass
11n(HT40)	CH151	36.60	500.00	Pass
11n(HT40)	CH159	36.60	500.00	Pass
11ac(VHT20)	CH149	17.80	500.00	Pass
11ac(VHT20)	CH157	17.80	500.00	Pass
11ac(VHT20)	CH165	17.90	500.00	Pass
11ac(VHT40)	CH151	36.60	500.00	Pass
11ac(VHT40)	CH159	36.60	500.00	Pass
11ax(HE20)(SU)	CH149	19.30	500.00	Pass
11ax(HE20)(SU)	CH157	19.30	500.00	Pass
11ax(HE20)(SU)	CH165	19.30	500.00	Pass
11ax(HE40)(SU)	CH151	38.40	500.00	Pass
11ax(HE40)(SU)	CH159	38.40	500.00	Pass

A.4 Power Spectral Density

Note¹: Test plots please refer to the document “Annex No.: BL-SZ25A0651-604 Data Part 3.pdf”.

Note²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	4.81	11.00	Pass
11a	CH44	5.04	11.00	Pass
11a	CH48	4.86	11.00	Pass
11n(HT20)	CH36	4.36	11.00	Pass
11n(HT20)	CH44	4.47	11.00	Pass
11n(HT20)	CH48	4.49	11.00	Pass
11n(HT40)	CH38	0.11	11.00	Pass
11n(HT40)	CH46	0.09	11.00	Pass
11ac(VHT20)	CH36	4.22	11.00	Pass
11ac(VHT20)	CH44	4.21	11.00	Pass
11ac(VHT20)	CH48	4.26	11.00	Pass
11ac(VHT40)	CH38	0.29	11.00	Pass
11ac(VHT40)	CH46	0.24	11.00	Pass
11ax(HE20)(SU)	CH36	4.04	11.00	Pass
11ax(HE20)(SU)	CH44	4.04	11.00	Pass
11ax(HE20)(SU)	CH48	3.93	11.00	Pass
11ax(HE40)(SU)	CH38	-0.07	11.00	Pass
11ax(HE40)(SU)	CH46	-0.14	11.00	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	IC Limit (dBm/500kHz)	Verdict
11a	CH149	4.81	30.00	30.00	Pass
11a	CH157	5.04	30.00	30.00	Pass
11a	CH165	4.86	30.00	30.00	Pass
11n(HT20)	CH149	4.36	30.00	30.00	Pass
11n(HT20)	CH157	4.47	30.00	30.00	Pass
11n(HT20)	CH165	4.49	30.00	30.00	Pass
11n(HT40)	CH151	0.11	30.00	30.00	Pass
11n(HT40)	CH159	0.09	30.00	30.00	Pass
11ac(VHT20)	CH149	4.22	30.00	30.00	Pass
11ac(VHT20)	CH157	4.21	30.00	30.00	Pass
11ac(VHT20)	CH165	4.26	30.00	30.00	Pass
11ac(VHT40)	CH151	0.29	30.00	30.00	Pass
11ac(VHT40)	CH159	0.24	30.00	30.00	Pass
11ax(HE20)(SU)	CH149	4.04	30.00	30.00	Pass
11ax(HE20)(SU)	CH157	4.04	30.00	30.00	Pass
11ax(HE20)(SU)	CH165	3.93	30.00	30.00	Pass
11ax(HE40)(SU)	CH151	-0.07	30.00	30.00	Pass
11ax(HE40)(SU)	CH159	-0.14	30.00	30.00	Pass

E.I.R.P

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	E.I.R.P PSD (dBm/MHz)	E.I.R.P Limit (dBm/MHz)	Verdict
11a	CH36	8.17	10.00	Pass
11a	CH44	8.40	10.00	Pass
11a	CH48	8.22	10.00	Pass
11n(HT20)	CH36	7.72	10.00	Pass
11n(HT20)	CH44	7.83	10.00	Pass
11n(HT20)	CH48	7.85	10.00	Pass
11n(HT40)	CH38	3.47	10.00	Pass
11n(HT40)	CH46	3.45	10.00	Pass
11ac(VHT20)	CH36	7.58	10.00	Pass
11ac(VHT20)	CH44	7.57	10.00	Pass
11ac(VHT20)	CH48	7.62	10.00	Pass
11ac(VHT40)	CH38	3.65	10.00	Pass
11ac(VHT40)	CH46	3.60	10.00	Pass
11ax(HE20)(SU)	CH36	7.40	10.00	Pass
11ax(HE20)(SU)	CH44	7.40	10.00	Pass
11ax(HE20)(SU)	CH48	7.29	10.00	Pass
11ax(HE40)(SU)	CH38	3.29	10.00	Pass
11ax(HE40)(SU)	CH46	3.22	10.00	Pass

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	E.I.R.P PSD (dBm/500kHz)	Verdict
11a	CH149	8.08	Pass
11a	CH157	8.31	Pass
11a	CH165	8.13	Pass
11n(HT20)	CH149	7.63	Pass
11n(HT20)	CH157	7.74	Pass
11n(HT20)	CH165	7.76	Pass
11n(HT40)	CH151	3.38	Pass
11n(HT40)	CH159	3.36	Pass
11ac(VHT20)	CH149	7.49	Pass
11ac(VHT20)	CH157	7.48	Pass
11ac(VHT20)	CH165	7.53	Pass
11ac(VHT40)	CH151	3.56	Pass
11ac(VHT40)	CH159	3.51	Pass
11ax(HE20)(SU)	CH149	7.31	Pass
11ax(HE20)(SU)	CH157	7.31	Pass
11ax(HE20)(SU)	CH165	7.20	Pass
11ax(HE40)(SU)	CH151	3.20	Pass
11ax(HE40)(SU)	CH159	3.13	Pass

A.5 Conducted Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

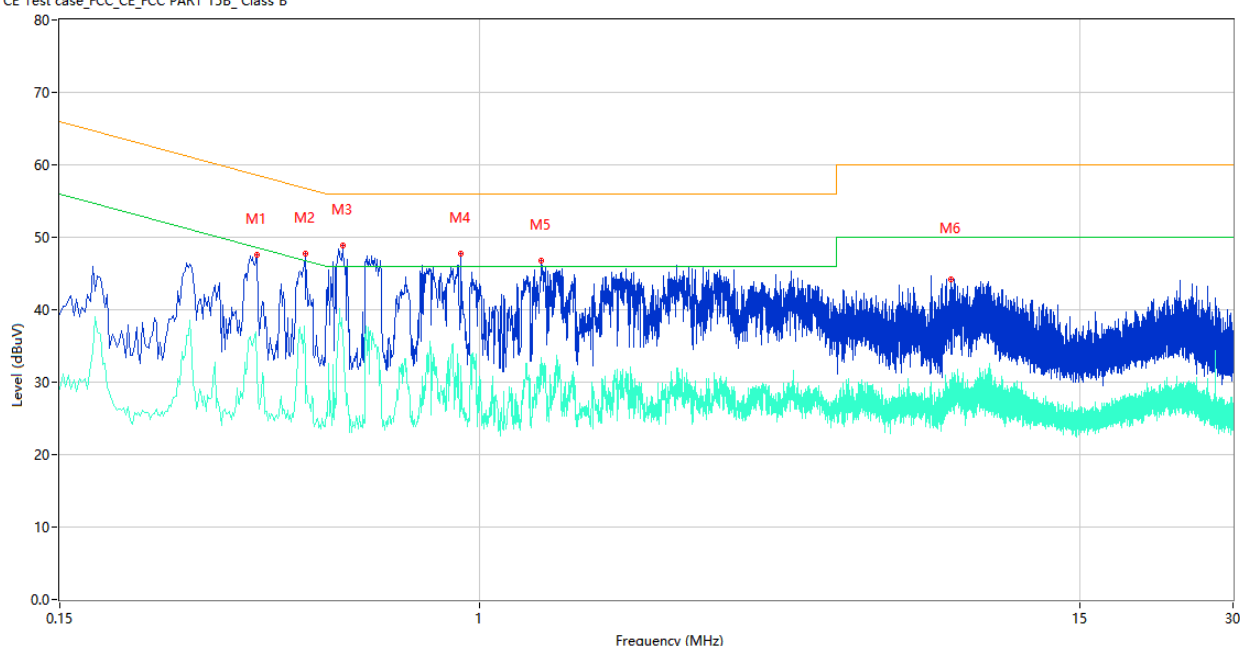
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

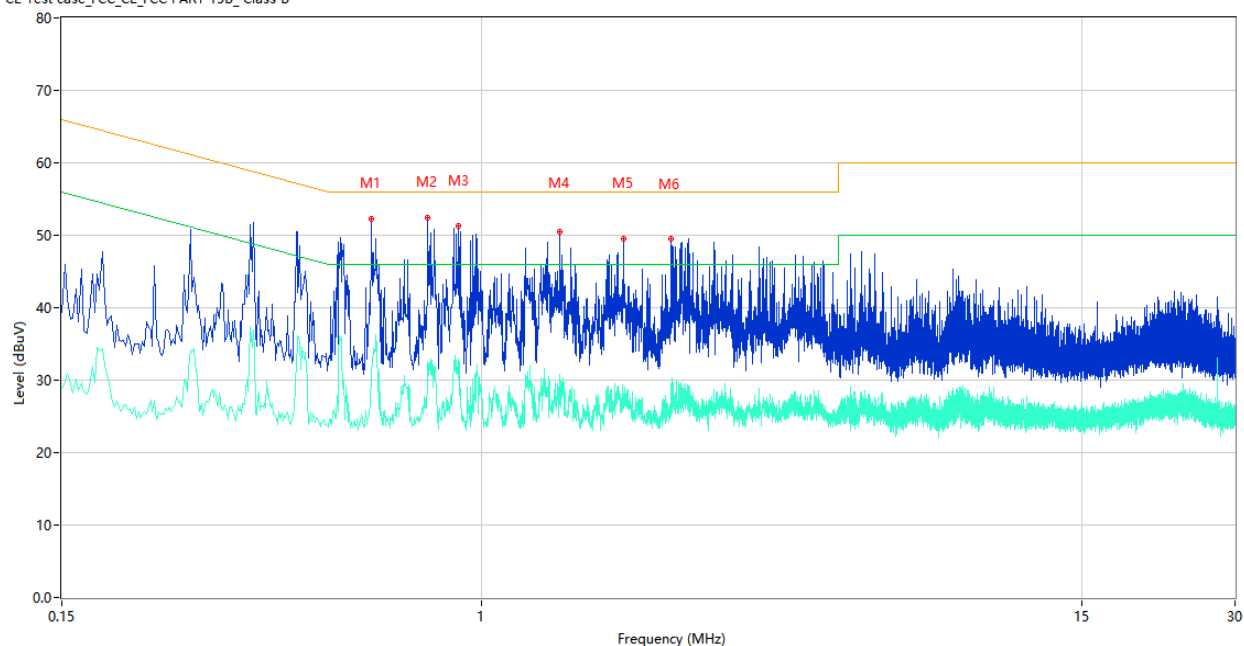
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.366	47.60	10.75	58.59	10.99	Peak	L	Pass
1**	0.366	31.65	10.75	48.59	16.94	AV	L	Pass
2	0.454	47.74	10.09	56.80	9.06	Peak	L	Pass
2**	0.454	33.27	10.09	46.80	13.53	AV	L	Pass
3	0.538	48.93	10.08	56.00	7.07	Peak	L	Pass
3**	0.538	36.00	10.08	46.00	10.00	AV	L	Pass
4	0.918	47.76	10.20	56.00	8.24	Peak	L	Pass
4**	0.918	32.29	10.20	46.00	13.71	AV	L	Pass
5	1.322	46.82	10.34	56.00	9.18	Peak	L	Pass
5**	1.322	33.22	10.34	46.00	12.78	AV	L	Pass
6	8.382	44.23	10.29	60.00	15.77	Peak	L	Pass
6**	8.382	30.26	10.29	50.00	19.74	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15B_ Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.608	52.28	10.23	56.00	3.72	Peak	N	Pass
1**	0.608	31.68	10.23	46.00	14.32	AV	N	Pass
2	0.784	52.40	10.47	56.00	3.60	Peak	N	Pass
2**	0.784	32.41	10.47	46.00	13.59	AV	N	Pass
3	0.900	51.27	10.25	56.00	4.73	Peak	N	Pass
3**	0.900	32.87	10.25	46.00	13.13	AV	N	Pass
4	1.420	50.42	9.93	56.00	5.58	Peak	N	Pass
4**	1.420	30.74	9.93	46.00	15.26	AV	N	Pass
5	1.892	49.57	10.73	56.00	6.43	Peak	N	Pass
5**	1.892	27.80	10.73	46.00	18.20	AV	N	Pass
6	2.352	49.59	10.07	56.00	6.41	Peak	N	Pass
6**	2.352	29.45	10.07	46.00	16.55	AV	N	Pass

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

Note¹: The symbol of “--” in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.10, 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.

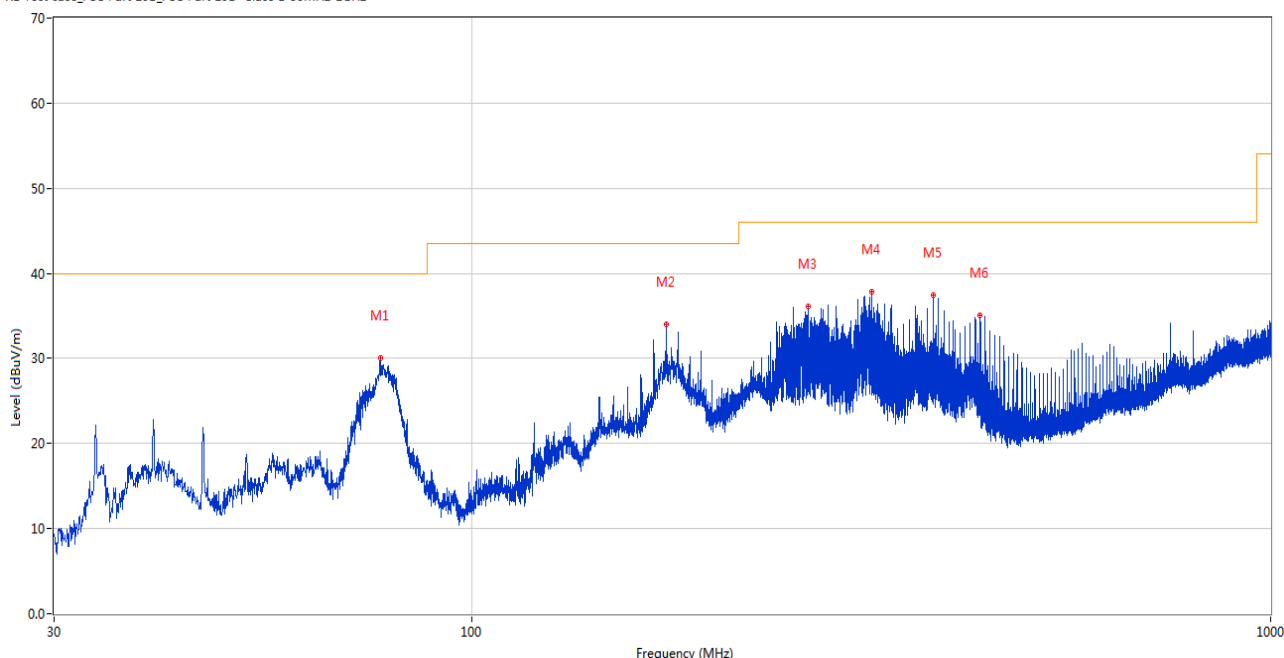
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

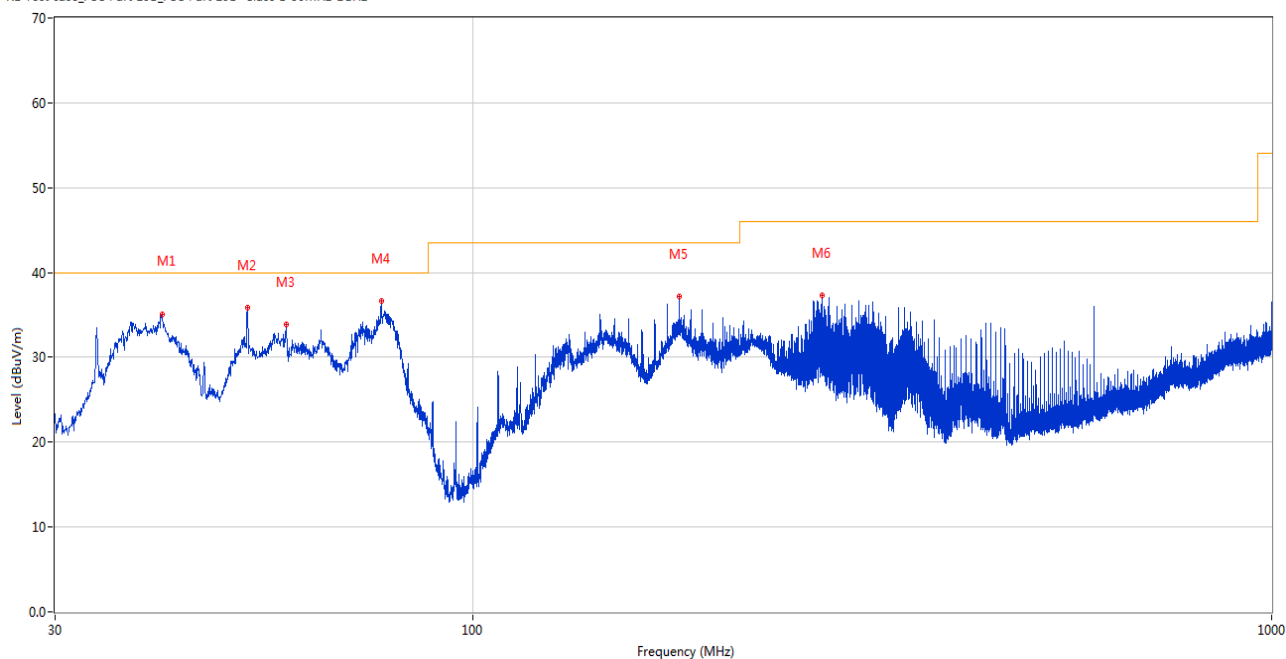
RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	76.802	30.02	-30.41	40.0	9.98	Peak	182.10	100	Horizontal	Pass
2	175.112	33.97	-26.86	43.5	9.53	Peak	320.00	100	Horizontal	Pass
3	263.916	36.09	-22.49	46.0	9.91	Peak	136.40	100	Horizontal	Pass
4	316.441	37.81	-21.07	46.0	8.19	Peak	136.40	100	Horizontal	Pass
5	377.842	37.40	-19.22	46.0	8.60	Peak	353.40	100	Horizontal	Pass
6	433.181	35.07	-17.49	46.0	10.93	Peak	55.90	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15B_FCC Part 15B Class B 30MHz-1GHz



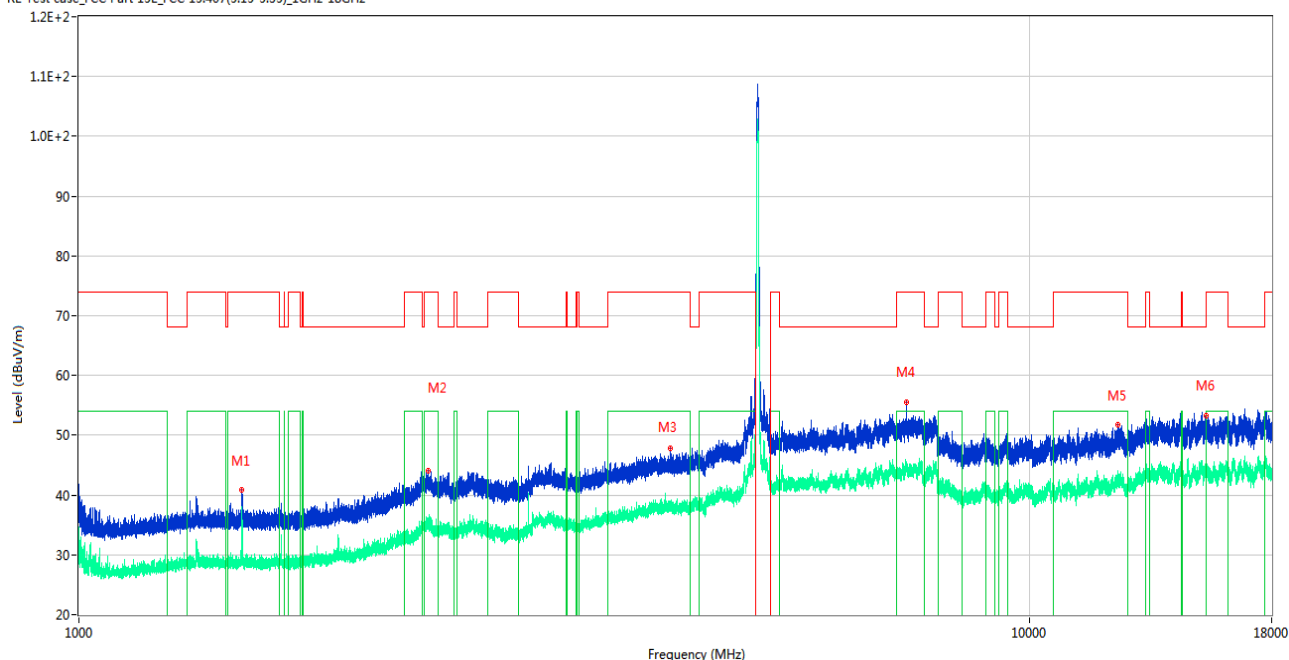
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	40.816	35.01	-25.32	40.0	4.99	Peak	184.80	100	Vertical	Pass
2	52.261	35.91	-24.08	40.0	4.09	Peak	96.60	100	Vertical	Pass
3	58.373	33.86	-24.82	40.0	6.14	Peak	152.00	100	Vertical	Pass
4	76.851	36.59	-30.43	40.0	3.41	Peak	130.10	100	Vertical	Pass
5	181.272	37.15	-26.26	43.5	6.35	Peak	0.00	100	Vertical	Pass
6	273.422	37.37	-22.24	46.0	8.63	Peak	291.10	100	Vertical	Pass

Note¹: The spurious above 18G is noise only, do not show on the report.

Note²: All the configurations were pre tested, only the worst configuration has been reported in this report.

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

RE Test case_FCC Part 15E_FCC 15.407(5.15-5.35)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1481.712	40.87	74.0	33.13	Peak	41.00	400	Horizontal	Pass
1**	1481.712	36.47	54.0	17.54	AV	41.00	400	Horizontal	Pass
2	2333.120	44.17	74.0	29.83	Peak	165.00	100	Horizontal	Pass
2**	2333.120	35.37	54.0	18.63	AV	165.00	100	Horizontal	Pass
3	4190.503	48.08	74.0	25.92	Peak	335.00	200	Horizontal	Pass
3**	4190.503	38.01	54.0	16.00	AV	335.00	200	Horizontal	Pass
4	7429.086	55.78	74.0	18.22	Peak	268.00	400	Horizontal	Pass
4**	7429.086	45.21	54.0	8.79	AV	268.00	400	Horizontal	Pass
5	12407.944	51.86	74.0	22.14	Peak	265.00	400	Horizontal	Pass
5**	12407.944	41.62	54.0	12.38	AV	265.00	400	Horizontal	Pass
6	15374.978	53.50	74.0	20.50	Peak	22.00	400	Horizontal	Pass
6**	15374.978	44.46	54.0	9.54	AV	22.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.485	49.72	74.0	24.28	Peak	66.00	100	Vertical	Pass
1**	1160.485	35.06	54.0	18.94	AV	66.00	100	Vertical	Pass
2	1333.083	46.85	74.0	27.15	Peak	228.00	300	Vertical	Pass
2**	1333.083	38.38	54.0	15.62	AV	228.00	300	Vertical	Pass
3	4921.662	48.30	74.0	25.71	Peak	316.00	200	Vertical	Pass
3**	4921.662	39.37	54.0	14.63	AV	316.00	200	Vertical	Pass
4	7935.685	53.31	74.0	20.69	Peak	347.00	400	Vertical	Pass
4**	7935.685	43.76	54.0	10.24	AV	347.00	400	Vertical	Pass
5	12493.194	53.19	74.0	20.81	Peak	10.00	100	Vertical	Pass
5**	12493.194	43.92	54.0	10.08	AV	10.00	100	Vertical	Pass
6	17101.356	54.44	74.0	19.56	Peak	242.00	200	Vertical	Pass
6**	17101.356	44.58	54.0	9.42	AV	242.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1485.704	40.78	74.0	33.22	Peak	4.00	400	Horizontal	Pass
1**	1485.704	36.30	54.0	17.70	AV	4.00	400	Horizontal	Pass
2	2331.850	44.05	74.0	29.95	Peak	148.00	400	Horizontal	Pass
2**	2331.850	35.17	54.0	18.83	AV	148.00	400	Horizontal	Pass
3	4191.576	47.82	74.0	26.18	Peak	163.00	200	Horizontal	Pass
3**	4191.576	37.95	54.0	16.05	AV	163.00	200	Horizontal	Pass
4	7427.050	55.75	74.0	18.25	Peak	332.00	200	Horizontal	Pass
4**	7427.050	45.02	54.0	8.98	AV	332.00	200	Horizontal	Pass
5	12408.213	51.59	74.0	22.41	Peak	194.00	400	Horizontal	Pass
5**	12408.213	41.54	54.0	12.46	AV	194.00	400	Horizontal	Pass
6	15372.939	53.43	74.0	20.57	Peak	92.00	300	Horizontal	Pass
6**	15372.939	44.17	54.0	9.84	AV	92.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1159.213	49.63	74.0	24.37	Peak	289.00	100	Vertical	Pass
1**	1159.213	34.88	54.0	19.12	AV	289.00	100	Vertical	Pass
2	1337.020	46.71	74.0	27.29	Peak	280.00	200	Vertical	Pass
2**	1337.020	38.33	54.0	15.67	AV	280.00	200	Vertical	Pass
3	4924.585	48.10	74.0	25.90	Peak	254.00	200	Vertical	Pass
3**	4924.585	39.13	54.0	14.87	AV	254.00	200	Vertical	Pass
4	7932.915	53.18	74.0	20.82	Peak	273.00	200	Vertical	Pass
4**	7932.915	43.54	54.0	10.46	AV	273.00	200	Vertical	Pass
5	12497.567	53.12	74.0	20.88	Peak	322.00	300	Vertical	Pass
5**	12497.567	43.63	54.0	10.37	AV	322.00	300	Vertical	Pass
6	17100.697	54.21	74.0	19.79	Peak	330.00	200	Vertical	Pass
6**	17100.697	44.54	54.0	9.46	AV	330.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1482.175	40.77	74.0	33.23	Peak	149.00	400	Horizontal	Pass
1**	1482.175	36.03	54.0	17.97	AV	149.00	400	Horizontal	Pass
2	2330.002	44.02	74.0	29.98	Peak	348.00	100	Horizontal	Pass
2**	2330.002	34.97	54.0	19.03	AV	348.00	100	Horizontal	Pass
3	4191.650	47.64	74.0	26.36	Peak	169.00	200	Horizontal	Pass
3**	4191.650	37.72	54.0	16.28	AV	169.00	200	Horizontal	Pass
4	7428.893	55.46	74.0	18.54	Peak	310.00	400	Horizontal	Pass
4**	7428.893	44.78	54.0	9.22	AV	310.00	400	Horizontal	Pass
5	12412.489	51.47	74.0	22.53	Peak	45.00	200	Horizontal	Pass
5**	12412.489	41.28	54.0	12.72	AV	45.00	200	Horizontal	Pass
6	15371.414	53.42	74.0	20.58	Peak	247.00	200	Horizontal	Pass
6**	15371.414	44.02	54.0	9.98	AV	247.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.047	49.34	74.0	24.66	Peak	349.00	200	Vertical	Pass
1**	1164.047	34.81	54.0	19.19	AV	349.00	200	Vertical	Pass
2	1332.225	46.59	74.0	27.41	Peak	315.00	400	Vertical	Pass
2**	1332.225	38.32	54.0	15.68	AV	315.00	400	Vertical	Pass
3	4926.306	48.05	74.0	25.95	Peak	188.00	200	Vertical	Pass
3**	4926.306	39.06	54.0	14.94	AV	188.00	200	Vertical	Pass
4	7929.665	53.11	74.0	20.89	Peak	122.00	200	Vertical	Pass
4**	7929.665	43.29	54.0	10.71	AV	122.00	200	Vertical	Pass
5	12494.450	53.02	74.0	20.98	Peak	77.00	400	Vertical	Pass
5**	12494.450	43.38	54.0	10.62	AV	77.00	400	Vertical	Pass
6	17104.519	54.04	74.0	19.97	Peak	8.00	100	Vertical	Pass
6**	17104.519	44.35	54.0	9.65	AV	8.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1486.551	40.72	74.0	33.28	Peak	131.00	400	Horizontal	Pass
1**	1486.551	36.26	54.0	17.74	AV	131.00	400	Horizontal	Pass
2	2328.848	43.87	74.0	30.13	Peak	85.00	400	Horizontal	Pass
2**	2328.848	35.31	54.0	18.69	AV	85.00	400	Horizontal	Pass
3	4194.533	48.02	74.0	25.98	Peak	50.00	200	Horizontal	Pass
3**	4194.533	37.91	54.0	16.09	AV	50.00	200	Horizontal	Pass
4	7427.627	55.60	74.0	18.40	Peak	51.00	100	Horizontal	Pass
4**	7427.627	45.02	54.0	8.98	AV	51.00	100	Horizontal	Pass
5	12404.841	51.78	74.0	22.22	Peak	22.00	200	Horizontal	Pass
5**	12404.841	41.34	54.0	12.66	AV	22.00	200	Horizontal	Pass
6	15378.070	53.37	74.0	20.63	Peak	195.00	200	Horizontal	Pass
6**	15378.070	44.35	54.0	9.65	AV	195.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1158.624	49.27	74.0	24.73	Peak	168.00	200	Vertical	Pass
1**	1158.624	34.58	54.0	19.42	AV	168.00	200	Vertical	Pass
2	1337.865	46.39	74.0	27.61	Peak	188.00	200	Vertical	Pass
2**	1337.865	38.11	54.0	15.89	AV	188.00	200	Vertical	Pass
3	4923.481	47.96	74.0	26.04	Peak	269.00	200	Vertical	Pass
3**	4923.481	38.93	54.0	15.08	AV	269.00	200	Vertical	Pass
4	7930.625	52.90	74.0	21.10	Peak	300.00	100	Vertical	Pass
4**	7930.625	43.14	54.0	10.87	AV	300.00	100	Vertical	Pass
5	12492.570	52.91	74.0	21.09	Peak	326.00	400	Vertical	Pass
5**	12492.570	43.37	54.0	10.63	AV	326.00	400	Vertical	Pass
6	17102.706	53.77	74.0	20.23	Peak	258.00	300	Vertical	Pass
6**	17102.706	44.14	54.0	9.86	AV	258.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1481.281	40.78	74.0	33.22	Peak	249.00	100	Horizontal	Pass
1**	1481.281	36.29	54.0	17.71	AV	249.00	100	Horizontal	Pass
2	2330.823	43.87	74.0	30.13	Peak	282.00	200	Horizontal	Pass
2**	2330.823	34.98	54.0	19.02	AV	282.00	200	Horizontal	Pass
3	4194.092	47.58	74.0	26.42	Peak	164.00	200	Horizontal	Pass
3**	4194.092	37.94	54.0	16.06	AV	164.00	200	Horizontal	Pass
4	7424.860	55.59	74.0	18.41	Peak	262.00	300	Horizontal	Pass
4**	7424.860	45.02	54.0	8.98	AV	262.00	300	Horizontal	Pass
5	12406.564	51.31	74.0	22.69	Peak	160.00	200	Horizontal	Pass
5**	12406.564	41.47	54.0	12.53	AV	160.00	200	Horizontal	Pass
6	15376.417	53.19	74.0	20.81	Peak	256.00	100	Horizontal	Pass
6**	15376.417	43.92	54.0	10.08	AV	256.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.729	49.21	74.0	24.79	Peak	73.00	100	Vertical	Pass
1**	1164.729	34.33	54.0	19.67	AV	73.00	100	Vertical	Pass
2	1337.250	46.34	74.0	27.67	Peak	178.00	200	Vertical	Pass
2**	1337.250	37.97	54.0	16.03	AV	178.00	200	Vertical	Pass
3	4923.213	47.86	74.0	26.14	Peak	307.00	200	Vertical	Pass
3**	4923.213	38.70	54.0	15.30	AV	307.00	200	Vertical	Pass
4	7932.875	52.63	74.0	21.37	Peak	304.00	200	Vertical	Pass
4**	7932.875	43.09	54.0	10.92	AV	304.00	200	Vertical	Pass
5	12493.962	52.76	74.0	21.24	Peak	105.00	300	Vertical	Pass
5**	12493.962	43.12	54.0	10.88	AV	105.00	300	Vertical	Pass
6	17101.640	53.57	74.0	20.43	Peak	182.00	300	Vertical	Pass
6**	17101.640	43.94	54.0	10.06	AV	182.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1482.261	40.49	74.0	33.52	Peak	229.00	300	Horizontal	Pass
1**	1482.261	35.86	54.0	18.15	AV	229.00	300	Horizontal	Pass
2	2330.277	43.96	74.0	30.05	Peak	124.00	400	Horizontal	Pass
2**	2330.277	34.96	54.0	19.04	AV	124.00	400	Horizontal	Pass
3	4194.238	47.50	74.0	26.50	Peak	210.00	200	Horizontal	Pass
3**	4194.238	37.57	54.0	16.43	AV	210.00	200	Horizontal	Pass
4	7424.176	55.30	74.0	18.71	Peak	170.00	300	Horizontal	Pass
4**	7424.176	44.59	54.0	9.41	AV	170.00	300	Horizontal	Pass
5	12405.059	51.29	74.0	22.71	Peak	28.00	400	Horizontal	Pass
5**	12405.059	41.21	54.0	12.79	AV	28.00	400	Horizontal	Pass
6	15375.152	53.32	74.0	20.68	Peak	101.00	300	Horizontal	Pass
6**	15375.152	43.84	54.0	10.16	AV	101.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.797	49.19	74.0	24.81	Peak	202.00	100	Vertical	Pass
1**	1161.797	34.14	54.0	19.86	AV	202.00	100	Vertical	Pass
2	1332.637	46.20	74.0	27.80	Peak	109.00	200	Vertical	Pass
2**	1332.637	37.85	54.0	16.15	AV	109.00	200	Vertical	Pass
3	4920.392	47.63	74.0	26.37	Peak	356.00	200	Vertical	Pass
3**	4920.392	38.56	54.0	15.44	AV	356.00	200	Vertical	Pass
4	7932.986	52.49	74.0	21.51	Peak	26.00	100	Vertical	Pass
4**	7932.986	42.82	54.0	11.18	AV	26.00	100	Vertical	Pass
5	12497.383	52.71	74.0	21.29	Peak	285.00	100	Vertical	Pass
5**	12497.383	42.83	54.0	11.17	AV	285.00	100	Vertical	Pass
6	17103.141	53.33	74.0	20.67	Peak	28.00	300	Vertical	Pass
6**	17103.141	43.72	54.0	10.28	AV	28.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1483.849	40.71	74.0	33.29	Peak	358.00	200	Horizontal	Pass
1**	1483.849	36.33	54.0	17.67	AV	358.00	200	Horizontal	Pass
2	2329.112	44.08	74.0	29.93	Peak	209.00	300	Horizontal	Pass
2**	2329.112	35.32	54.0	18.68	AV	209.00	300	Horizontal	Pass
3	4194.503	48.00	74.0	26.00	Peak	313.00	200	Horizontal	Pass
3**	4194.503	37.84	54.0	16.16	AV	313.00	200	Horizontal	Pass
4	7427.411	55.52	74.0	18.48	Peak	165.00	100	Horizontal	Pass
4**	7427.411	45.18	54.0	8.82	AV	165.00	100	Horizontal	Pass
5	12407.762	51.84	74.0	22.16	Peak	25.00	100	Horizontal	Pass
5**	12407.762	41.44	54.0	12.56	AV	25.00	100	Horizontal	Pass
6	15371.302	53.21	74.0	20.79	Peak	35.00	200	Horizontal	Pass
6**	15371.302	44.38	54.0	9.62	AV	35.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.109	49.07	74.0	24.93	Peak	51.00	200	Vertical	Pass
1**	1161.109	34.07	54.0	19.93	AV	51.00	200	Vertical	Pass
2	1336.041	46.14	74.0	27.86	Peak	308.00	100	Vertical	Pass
2**	1336.041	37.78	54.0	16.22	AV	308.00	100	Vertical	Pass
3	4923.269	47.55	74.0	26.45	Peak	126.00	200	Vertical	Pass
3**	4923.269	38.45	54.0	15.55	AV	126.00	200	Vertical	Pass
4	7934.018	52.24	74.0	21.76	Peak	274.00	400	Vertical	Pass
4**	7934.018	42.76	54.0	11.24	AV	274.00	400	Vertical	Pass
5	12496.776	52.47	74.0	21.53	Peak	233.00	400	Vertical	Pass
5**	12496.776	42.79	54.0	11.21	AV	233.00	400	Vertical	Pass
6	17104.274	53.23	74.0	20.77	Peak	286.00	300	Vertical	Pass
6**	17104.274	43.65	54.0	10.35	AV	286.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.579	40.65	74.0	33.35	Peak	268.00	100	Horizontal	Pass
1**	1484.579	36.19	54.0	17.81	AV	268.00	100	Horizontal	Pass
2	2332.285	43.83	74.0	30.17	Peak	146.00	400	Horizontal	Pass
2**	2332.285	35.02	54.0	18.98	AV	146.00	400	Horizontal	Pass
3	4194.374	47.78	74.0	26.23	Peak	103.00	200	Horizontal	Pass
3**	4194.374	37.85	54.0	16.15	AV	103.00	200	Horizontal	Pass
4	7427.936	55.53	74.0	18.47	Peak	184.00	400	Horizontal	Pass
4**	7427.936	45.01	54.0	8.99	AV	184.00	400	Horizontal	Pass
5	12406.997	51.37	74.0	22.63	Peak	312.00	100	Horizontal	Pass
5**	12406.997	41.36	54.0	12.64	AV	312.00	100	Horizontal	Pass
6	15375.619	53.17	74.0	20.83	Peak	16.00	200	Horizontal	Pass
6**	15375.619	44.00	54.0	10.00	AV	16.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.455	48.78	74.0	25.22	Peak	98.00	100	Vertical	Pass
1**	1160.455	34.07	54.0	19.93	AV	98.00	100	Vertical	Pass
2	1337.127	46.13	74.0	27.87	Peak	247.00	300	Vertical	Pass
2**	1337.127	37.57	54.0	16.44	AV	247.00	300	Vertical	Pass
3	4927.515	47.41	74.0	26.59	Peak	213.00	200	Vertical	Pass
3**	4927.515	38.31	54.0	15.69	AV	213.00	200	Vertical	Pass
4	7930.441	51.96	74.0	22.04	Peak	250.00	100	Vertical	Pass
4**	7930.441	42.54	54.0	11.47	AV	250.00	100	Vertical	Pass
5	12495.059	52.36	74.0	21.64	Peak	311.00	400	Vertical	Pass
5**	12495.059	42.73	54.0	11.27	AV	311.00	400	Vertical	Pass
6	17103.293	53.14	74.0	20.86	Peak	82.00	100	Vertical	Pass
6**	17103.293	43.46	54.0	10.54	AV	82.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.014	40.71	74.0	33.29	Peak	214.00	300	Horizontal	Pass
1**	1484.014	36.21	54.0	17.79	AV	214.00	300	Horizontal	Pass
2	2329.922	44.12	74.0	29.88	Peak	186.00	100	Horizontal	Pass
2**	2329.922	35.28	54.0	18.72	AV	186.00	100	Horizontal	Pass
3	4191.355	48.02	74.0	25.98	Peak	19.00	200	Horizontal	Pass
3**	4191.355	37.71	54.0	16.29	AV	19.00	200	Horizontal	Pass
4	7428.330	55.62	74.0	18.38	Peak	112.00	100	Horizontal	Pass
4**	7428.330	45.03	54.0	8.97	AV	112.00	100	Horizontal	Pass
5	12407.739	51.71	74.0	22.29	Peak	203.00	200	Horizontal	Pass
5**	12407.739	41.59	54.0	12.41	AV	203.00	200	Horizontal	Pass
6	15376.978	53.34	74.0	20.67	Peak	17.00	400	Horizontal	Pass
6**	15376.978	44.25	54.0	9.75	AV	17.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.879	48.65	74.0	25.36	Peak	93.00	100	Vertical	Pass
1**	1162.879	33.78	54.0	20.22	AV	93.00	100	Vertical	Pass
2	1335.547	46.04	74.0	27.96	Peak	89.00	400	Vertical	Pass
2**	1335.547	37.39	54.0	16.61	AV	89.00	400	Vertical	Pass
3	4922.117	47.23	74.0	26.77	Peak	54.00	200	Vertical	Pass
3**	4922.117	38.06	54.0	15.94	AV	54.00	200	Vertical	Pass
4	7930.529	51.78	74.0	22.22	Peak	188.00	400	Vertical	Pass
4**	7930.529	42.45	54.0	11.55	AV	188.00	400	Vertical	Pass
5	12494.284	52.20	74.0	21.80	Peak	260.00	300	Vertical	Pass
5**	12494.284	42.50	54.0	11.51	AV	260.00	300	Vertical	Pass
6	17103.276	52.86	74.0	21.14	Peak	287.00	300	Vertical	Pass
6**	17103.276	43.31	54.0	10.69	AV	287.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1485.618	40.71	74.0	33.29	Peak	344.00	100	Horizontal	Pass
1**	1485.618	36.04	54.0	17.97	AV	344.00	100	Horizontal	Pass
2	2329.553	44.02	74.0	29.98	Peak	220.00	200	Horizontal	Pass
2**	2329.553	35.00	54.0	19.01	AV	220.00	200	Horizontal	Pass
3	4196.714	47.53	74.0	26.47	Peak	147.00	200	Horizontal	Pass
3**	4196.714	37.72	54.0	16.28	AV	147.00	200	Horizontal	Pass
4	7423.854	55.67	74.0	18.33	Peak	84.00	300	Horizontal	Pass
4**	7423.854	44.81	54.0	9.19	AV	84.00	300	Horizontal	Pass
5	12412.131	51.41	74.0	22.59	Peak	330.00	100	Horizontal	Pass
5**	12412.131	41.39	54.0	12.61	AV	330.00	100	Horizontal	Pass
6	15372.729	53.15	74.0	20.85	Peak	202.00	300	Horizontal	Pass
6**	15372.729	44.11	54.0	9.90	AV	202.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.810	48.59	74.0	25.42	Peak	206.00	100	Vertical	Pass
1**	1161.810	33.64	54.0	20.36	AV	206.00	100	Vertical	Pass
2	1332.171	45.76	74.0	28.24	Peak	354.00	300	Vertical	Pass
2**	1332.171	37.29	54.0	16.71	AV	354.00	300	Vertical	Pass
3	4920.154	47.21	74.0	26.79	Peak	74.00	200	Vertical	Pass
3**	4920.154	38.04	54.0	15.97	AV	74.00	200	Vertical	Pass
4	7936.797	51.49	74.0	22.52	Peak	216.00	300	Vertical	Pass
4**	7936.797	42.21	54.0	11.80	AV	216.00	300	Vertical	Pass
5	12497.111	52.04	74.0	21.96	Peak	250.00	300	Vertical	Pass
5**	12497.111	42.33	54.0	11.67	AV	250.00	300	Vertical	Pass
6	17099.191	52.79	74.0	21.22	Peak	218.00	400	Vertical	Pass
6**	17099.191	43.15	54.0	10.85	AV	218.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1487.751	40.72	74.0	33.28	Peak	58.00	100	Horizontal	Pass
1**	1487.751	35.76	54.0	18.24	AV	58.00	100	Horizontal	Pass
2	2333.960	43.77	74.0	30.23	Peak	46.00	400	Horizontal	Pass
2**	2333.960	34.73	54.0	19.27	AV	46.00	400	Horizontal	Pass
3	4194.083	47.40	74.0	26.60	Peak	270.00	200	Horizontal	Pass
3**	4194.083	37.60	54.0	16.40	AV	270.00	200	Horizontal	Pass
4	7423.749	55.20	74.0	18.80	Peak	256.00	400	Horizontal	Pass
4**	7423.749	44.73	54.0	9.28	AV	256.00	400	Horizontal	Pass
5	12410.219	51.38	74.0	22.62	Peak	141.00	100	Horizontal	Pass
5**	12410.219	41.00	54.0	13.00	AV	141.00	100	Horizontal	Pass
6	15378.133	53.15	74.0	20.85	Peak	296.00	300	Horizontal	Pass
6**	15378.133	43.81	54.0	10.19	AV	296.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1157.745	48.30	74.0	25.70	Peak	164.00	300	Vertical	Pass
1**	1157.745	33.50	54.0	20.50	AV	164.00	300	Vertical	Pass
2	1336.298	45.69	74.0	28.31	Peak	360.00	100	Vertical	Pass
2**	1336.298	37.00	54.0	17.00	AV	360.00	100	Vertical	Pass
3	4920.586	47.14	74.0	26.86	Peak	286.00	200	Vertical	Pass
3**	4920.586	37.88	54.0	16.12	AV	286.00	200	Vertical	Pass
4	7929.889	51.34	74.0	22.66	Peak	149.00	300	Vertical	Pass
4**	7929.889	42.15	54.0	11.85	AV	149.00	300	Vertical	Pass
5	12497.954	51.95	74.0	22.05	Peak	127.00	200	Vertical	Pass
5**	12497.954	42.21	54.0	11.79	AV	127.00	200	Vertical	Pass
6	17099.477	52.77	74.0	21.23	Peak	327.00	300	Vertical	Pass
6**	17099.477	42.91	54.0	11.09	AV	327.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1483.121	40.44	74.0	33.56	Peak	0.00	300	Horizontal	Pass
1**	1483.121	36.00	54.0	18.00	AV	0.00	300	Horizontal	Pass
2	2333.443	43.78	74.0	30.22	Peak	24.00	300	Horizontal	Pass
2**	2333.443	35.20	54.0	18.80	AV	24.00	300	Horizontal	Pass
3	4191.096	48.00	74.0	26.00	Peak	158.00	200	Horizontal	Pass
3**	4191.096	37.63	54.0	16.37	AV	158.00	200	Horizontal	Pass
4	7428.596	55.53	74.0	18.47	Peak	267.00	400	Horizontal	Pass
4**	7428.596	44.74	54.0	9.26	AV	267.00	400	Horizontal	Pass
5	12409.608	51.64	74.0	22.36	Peak	159.00	400	Horizontal	Pass
5**	12409.608	41.15	54.0	12.85	AV	159.00	400	Horizontal	Pass
6	15372.400	53.22	74.0	20.79	Peak	56.00	400	Horizontal	Pass
6**	15372.400	44.25	54.0	9.75	AV	56.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.225	48.04	74.0	25.96	Peak	233.00	300	Vertical	Pass
1**	1162.225	33.30	54.0	20.70	AV	233.00	300	Vertical	Pass
2	1335.980	45.63	74.0	28.37	Peak	310.00	400	Vertical	Pass
2**	1335.980	36.99	54.0	17.01	AV	310.00	400	Vertical	Pass
3	4920.229	47.09	74.0	26.91	Peak	287.00	200	Vertical	Pass
3**	4920.229	37.72	54.0	16.28	AV	287.00	200	Vertical	Pass
4	7929.989	51.33	74.0	22.67	Peak	167.00	300	Vertical	Pass
4**	7929.989	42.04	54.0	11.96	AV	167.00	300	Vertical	Pass
5	12498.215	51.70	74.0	22.30	Peak	17.00	200	Vertical	Pass
5**	12498.215	42.16	54.0	11.84	AV	17.00	200	Vertical	Pass
6	17100.947	52.64	74.0	21.36	Peak	184.00	100	Vertical	Pass
6**	17100.947	42.72	54.0	11.28	AV	184.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1481.301	40.67	74.0	33.33	Peak	90.00	200	Horizontal	Pass
1**	1481.301	36.34	54.0	17.66	AV	90.00	200	Horizontal	Pass
2	2328.510	44.05	74.0	29.95	Peak	83.00	200	Horizontal	Pass
2**	2328.510	35.20	54.0	18.80	AV	83.00	200	Horizontal	Pass
3	4192.631	47.78	74.0	26.22	Peak	90.00	200	Horizontal	Pass
3**	4192.631	37.73	54.0	16.28	AV	90.00	200	Horizontal	Pass
4	7428.644	55.63	74.0	18.37	Peak	123.00	200	Horizontal	Pass
4**	7428.644	45.17	54.0	8.83	AV	123.00	200	Horizontal	Pass
5	12412.107	51.62	74.0	22.38	Peak	2.00	100	Horizontal	Pass
5**	12412.107	41.40	54.0	12.60	AV	2.00	100	Horizontal	Pass
6	15372.108	53.35	74.0	20.65	Peak	198.00	100	Horizontal	Pass
6**	15372.108	44.19	54.0	9.81	AV	198.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1158.199	49.69	74.0	24.31	Peak	23.00	200	Vertical	Pass
1**	1158.199	34.80	54.0	19.20	AV	23.00	200	Vertical	Pass
2	1334.298	46.68	74.0	27.32	Peak	299.00	200	Vertical	Pass
2**	1334.298	38.32	54.0	15.68	AV	299.00	200	Vertical	Pass
3	4922.012	48.26	74.0	25.74	Peak	311.00	200	Vertical	Pass
3**	4922.012	39.16	54.0	14.84	AV	311.00	200	Vertical	Pass
4	7929.887	53.17	74.0	20.84	Peak	14.00	400	Vertical	Pass
4**	7929.887	43.61	54.0	10.40	AV	14.00	400	Vertical	Pass
5	12498.090	53.07	74.0	20.94	Peak	263.00	100	Vertical	Pass
5**	12498.090	43.92	54.0	10.08	AV	263.00	100	Vertical	Pass
6	17104.105	54.20	74.0	19.80	Peak	7.00	400	Vertical	Pass
6**	17104.105	44.38	54.0	9.62	AV	7.00	400	Vertical	Pass

11ax20(SU), U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1488.005	40.60	74.0	33.40	Peak	234.00	300	Horizontal	Pass
1**	1488.005	36.05	54.0	17.95	AV	234.00	300	Horizontal	Pass
2	2330.463	43.61	74.0	30.40	Peak	335.00	100	Horizontal	Pass
2**	2330.463	35.20	54.0	18.80	AV	335.00	100	Horizontal	Pass
3	4192.542	47.75	74.0	26.25	Peak	173.00	200	Horizontal	Pass
3**	4192.542	37.62	54.0	16.38	AV	173.00	200	Horizontal	Pass
4	7421.770	55.59	74.0	18.41	Peak	240.00	200	Horizontal	Pass
4**	7421.770	44.97	54.0	9.03	AV	240.00	200	Horizontal	Pass
5	12410.583	51.53	74.0	22.47	Peak	345.00	300	Horizontal	Pass
5**	12410.583	41.31	54.0	12.70	AV	345.00	300	Horizontal	Pass
6	15377.423	53.19	74.0	20.81	Peak	8.00	300	Horizontal	Pass
6**	15377.423	44.31	54.0	9.69	AV	8.00	300	Horizontal	Pass

11ax20(SU), U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.470	49.02	74.0	24.98	Peak	110.00	100	Vertical	Pass
1**	1164.470	34.52	54.0	19.48	AV	110.00	100	Vertical	Pass
2	1335.930	46.21	74.0	27.79	Peak	307.00	300	Vertical	Pass
2**	1335.930	38.11	54.0	15.90	AV	307.00	300	Vertical	Pass
3	4923.253	47.73	74.0	26.27	Peak	338.00	200	Vertical	Pass
3**	4923.253	38.88	54.0	15.12	AV	338.00	200	Vertical	Pass
4	7930.654	52.61	74.0	21.39	Peak	217.00	400	Vertical	Pass
4**	7930.654	43.04	54.0	10.96	AV	217.00	400	Vertical	Pass
5	12498.593	52.67	74.0	21.33	Peak	189.00	400	Vertical	Pass
5**	12498.593	43.15	54.0	10.85	AV	189.00	400	Vertical	Pass
6	17097.778	53.55	74.0	20.45	Peak	277.00	400	Vertical	Pass
6**	17097.778	43.88	54.0	10.12	AV	277.00	400	Vertical	Pass

11ax20(SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1485.285	40.76	74.0	33.25	Peak	334.00	100	Horizontal	Pass
1**	1485.285	36.40	54.0	17.60	AV	334.00	100	Horizontal	Pass
2	2328.153	44.01	74.0	29.99	Peak	2.00	300	Horizontal	Pass
2**	2328.153	35.34	54.0	18.67	AV	2.00	300	Horizontal	Pass
3	4191.888	47.97	74.0	26.04	Peak	197.00	200	Horizontal	Pass
3**	4191.888	37.72	54.0	16.28	AV	197.00	200	Horizontal	Pass
4	7427.363	55.56	74.0	18.44	Peak	157.00	200	Horizontal	Pass
4**	7427.363	45.09	54.0	8.91	AV	157.00	200	Horizontal	Pass
5	12410.902	51.81	74.0	22.20	Peak	63.00	300	Horizontal	Pass
5**	12410.902	41.54	54.0	12.46	AV	63.00	300	Horizontal	Pass
6	15374.504	53.39	74.0	20.61	Peak	355.00	100	Horizontal	Pass
6**	15374.504	44.39	54.0	9.61	AV	355.00	100	Horizontal	Pass

11ax20(SU), U-NII-1, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1159.195	49.51	74.0	24.49	Peak	161.00	300	Vertical	Pass
1**	1159.195	34.85	54.0	19.15	AV	161.00	300	Vertical	Pass
2	1335.833	46.60	74.0	27.41	Peak	124.00	300	Vertical	Pass
2**	1335.833	38.37	54.0	15.63	AV	124.00	300	Vertical	Pass
3	4925.776	48.03	74.0	25.97	Peak	326.00	200	Vertical	Pass
3**	4925.776	39.33	54.0	14.67	AV	326.00	200	Vertical	Pass
4	7929.186	53.20	74.0	20.80	Peak	355.00	100	Vertical	Pass
4**	7929.186	43.52	54.0	10.48	AV	355.00	100	Vertical	Pass
5	12496.961	53.13	74.0	20.87	Peak	244.00	100	Vertical	Pass
5**	12496.961	43.76	54.0	10.24	AV	244.00	100	Vertical	Pass
6	17104.348	54.37	74.0	19.63	Peak	65.00	400	Vertical	Pass
6**	17104.348	44.38	54.0	9.62	AV	65.00	400	Vertical	Pass

11ax20(SU), U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.222	40.51	74.0	33.49	Peak	4.00	200	Horizontal	Pass
1**	1484.222	36.12	54.0	17.88	AV	4.00	200	Horizontal	Pass
2	2329.505	43.78	74.0	30.22	Peak	263.00	200	Horizontal	Pass
2**	2329.505	34.93	54.0	19.08	AV	263.00	200	Horizontal	Pass
3	4194.788	47.59	74.0	26.41	Peak	320.00	200	Horizontal	Pass
3**	4194.788	37.81	54.0	16.19	AV	320.00	200	Horizontal	Pass
4	7426.257	55.56	74.0	18.44	Peak	73.00	100	Horizontal	Pass
4**	7426.257	44.97	54.0	9.03	AV	73.00	100	Horizontal	Pass
5	12408.952	51.51	74.0	22.50	Peak	15.00	200	Horizontal	Pass
5**	12408.952	41.45	54.0	12.55	AV	15.00	200	Horizontal	Pass
6	15371.209	53.34	74.0	20.66	Peak	208.00	400	Horizontal	Pass
6**	15371.209	43.93	54.0	10.07	AV	208.00	400	Horizontal	Pass

11ax20(SU), U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1159.005	49.50	74.0	24.50	Peak	356.00	400	Vertical	Pass
1**	1159.005	34.72	54.0	19.28	AV	356.00	400	Vertical	Pass
2	1333.053	46.44	74.0	27.56	Peak	196.00	100	Vertical	Pass
2**	1333.053	38.20	54.0	15.80	AV	196.00	100	Vertical	Pass
3	4927.486	47.81	74.0	26.19	Peak	70.00	200	Vertical	Pass
3**	4927.486	39.01	54.0	14.99	AV	70.00	200	Vertical	Pass
4	7935.408	52.97	74.0	21.03	Peak	48.00	300	Vertical	Pass
4**	7935.408	43.52	54.0	10.48	AV	48.00	300	Vertical	Pass
5	12494.639	52.95	74.0	21.05	Peak	108.00	200	Vertical	Pass
5**	12494.639	43.46	54.0	10.54	AV	108.00	200	Vertical	Pass
6	17100.971	54.14	74.0	19.86	Peak	313.00	400	Vertical	Pass
6**	17100.971	44.28	54.0	9.72	AV	313.00	400	Vertical	Pass

11ax40(SU), U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1482.342	40.75	74.0	33.25	Peak	130.00	300	Horizontal	Pass
1**	1482.342	35.76	54.0	18.24	AV	130.00	300	Horizontal	Pass
2	2334.766	43.93	74.0	30.07	Peak	291.00	100	Horizontal	Pass
2**	2334.766	34.93	54.0	19.07	AV	291.00	100	Horizontal	Pass
3	4194.829	47.48	74.0	26.52	Peak	292.00	200	Horizontal	Pass
3**	4194.829	37.60	54.0	16.40	AV	292.00	200	Horizontal	Pass
4	7427.005	55.42	74.0	18.59	Peak	107.00	400	Horizontal	Pass
4**	7427.005	44.57	54.0	9.43	AV	107.00	400	Horizontal	Pass
5	12405.487	51.43	74.0	22.57	Peak	144.00	100	Horizontal	Pass
5**	12405.487	41.13	54.0	12.87	AV	144.00	100	Horizontal	Pass
6	15370.839	53.34	74.0	20.66	Peak	83.00	100	Horizontal	Pass
6**	15370.839	43.76	54.0	10.24	AV	83.00	100	Horizontal	Pass

11ax40(SU), U-NII-1, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.670	49.19	74.0	24.81	Peak	222.00	300	Vertical	Pass
1**	1162.670	34.53	54.0	19.47	AV	222.00	300	Vertical	Pass
2	1333.405	46.34	74.0	27.66	Peak	285.00	300	Vertical	Pass
2**	1333.405	38.26	54.0	15.74	AV	285.00	300	Vertical	Pass
3	4928.072	47.85	74.0	26.15	Peak	90.00	200	Vertical	Pass
3**	4928.072	39.02	54.0	14.99	AV	90.00	200	Vertical	Pass
4	7932.640	52.89	74.0	21.11	Peak	338.00	200	Vertical	Pass
4**	7932.640	43.11	54.0	10.89	AV	338.00	200	Vertical	Pass
5	12492.813	52.88	74.0	21.12	Peak	360.00	300	Vertical	Pass
5**	12492.813	43.12	54.0	10.88	AV	360.00	300	Vertical	Pass
6	17101.696	53.81	74.0	20.20	Peak	303.00	200	Vertical	Pass
6**	17101.696	44.05	54.0	9.95	AV	303.00	200	Vertical	Pass

11ax40(SU), U-NII-1, 1 GHz to 18 GHz, High Channel, ANT H

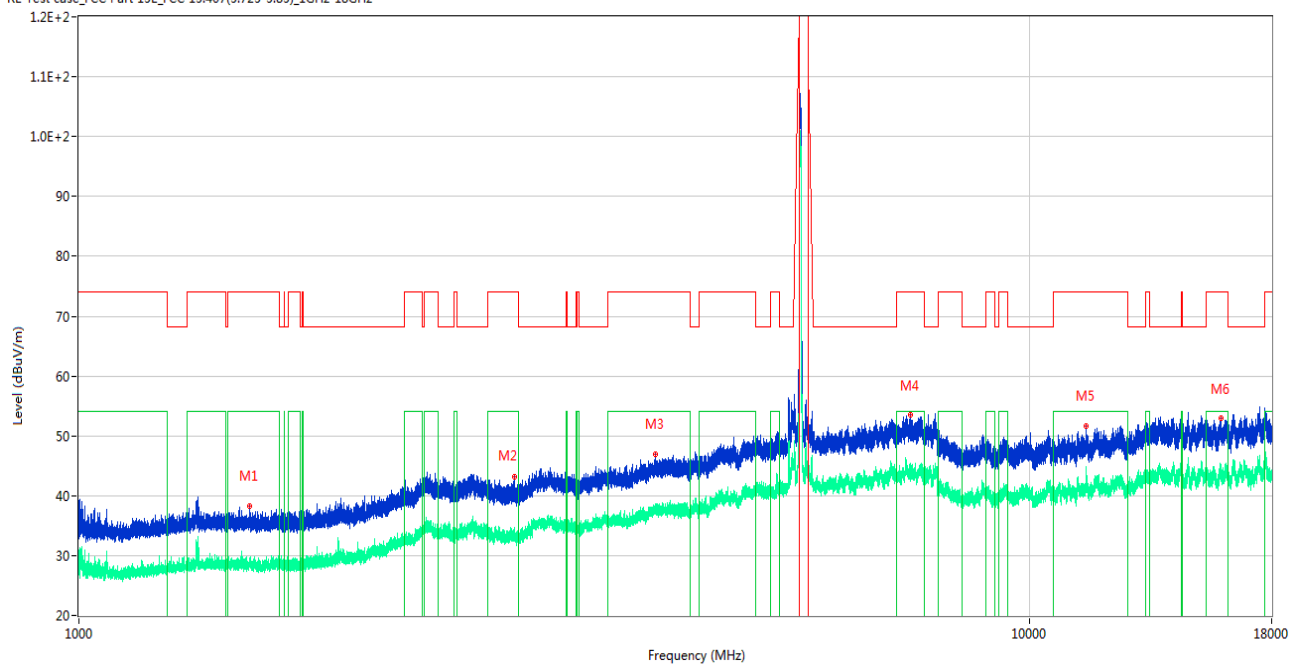
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.409	40.64	74.0	33.36	Peak	62.00	100	Horizontal	Pass
1**	1484.409	36.40	54.0	17.60	AV	62.00	100	Horizontal	Pass
2	2330.065	43.95	74.0	30.05	Peak	116.00	400	Horizontal	Pass
2**	2330.065	35.30	54.0	18.70	AV	116.00	400	Horizontal	Pass
3	4194.085	47.78	74.0	26.22	Peak	7.00	200	Horizontal	Pass
3**	4194.085	37.96	54.0	16.04	AV	7.00	200	Horizontal	Pass
4	7426.534	55.71	74.0	18.29	Peak	154.00	100	Horizontal	Pass
4**	7426.534	44.99	54.0	9.01	AV	154.00	100	Horizontal	Pass
5	12410.143	51.76	74.0	22.24	Peak	280.00	300	Horizontal	Pass
5**	12410.143	41.48	54.0	12.52	AV	280.00	300	Horizontal	Pass
6	15377.950	53.48	74.0	20.52	Peak	303.00	100	Horizontal	Pass
6**	15377.950	44.36	54.0	9.64	AV	303.00	100	Horizontal	Pass

11ax40(SU), U-NII-1, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.650	49.58	74.0	24.42	Peak	143.00	100	Vertical	Pass
1**	1160.650	34.88	54.0	19.12	AV	143.00	100	Vertical	Pass
2	1336.236	46.64	74.0	27.36	Peak	108.00	400	Vertical	Pass
2**	1336.236	38.22	54.0	15.78	AV	108.00	400	Vertical	Pass
3	4923.073	48.16	74.0	25.84	Peak	301.00	200	Vertical	Pass
3**	4923.073	39.26	54.0	14.74	AV	301.00	200	Vertical	Pass
4	7929.408	53.14	74.0	20.86	Peak	158.00	100	Vertical	Pass
4**	7929.408	43.57	54.0	10.44	AV	158.00	100	Vertical	Pass
5	12495.327	52.93	74.0	21.07	Peak	299.00	200	Vertical	Pass
5**	12495.327	43.69	54.0	10.31	AV	299.00	200	Vertical	Pass
6	17102.752	54.20	74.0	19.80	Peak	103.00	400	Vertical	Pass
6**	17102.752	44.47	54.0	9.53	AV	103.00	400	Vertical	Pass

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

RE Test case_FCC Part 15E_FCC 15.407(5.725-5.85)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1510.545	38.41	74.0	35.59	Peak	46.00	200	Horizontal	Pass
1**	1510.545	29.63	54.0	24.37	AV	46.00	200	Horizontal	Pass
2	2871.936	43.35	74.0	30.65	Peak	88.00	100	Horizontal	Pass
2**	2871.936	33.46	54.0	20.54	AV	88.00	100	Horizontal	Pass
3	4049.392	47.18	74.0	26.82	Peak	187.00	200	Horizontal	Pass
3**	4049.392	38.06	54.0	15.94	AV	187.00	200	Horizontal	Pass
4	7494.984	53.72	74.0	20.28	Peak	23.00	400	Horizontal	Pass
4**	7494.984	44.86	54.0	9.14	AV	23.00	400	Horizontal	Pass
5	11491.962	51.80	74.0	22.20	Peak	226.00	300	Horizontal	Pass
5**	11491.962	43.26	54.0	10.74	AV	226.00	300	Horizontal	Pass
6	15920.413	53.12	74.0	20.88	Peak	3.00	200	Horizontal	Pass
6**	15920.413	44.08	54.0	9.92	AV	3.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.179	50.44	74.0	23.57	Peak	337.00	400	Vertical	Pass
1**	1160.179	32.06	54.0	21.94	AV	337.00	400	Vertical	Pass
2	1335.752	48.87	74.0	25.13	Peak	180.00	400	Vertical	Pass
2**	1335.752	36.00	54.0	18.00	AV	180.00	400	Vertical	Pass
3	4933.249	50.01	74.0	23.99	Peak	72.00	200	Vertical	Pass
3**	4933.249	38.22	54.0	15.78	AV	72.00	200	Vertical	Pass
4	7942.113	49.83	74.0	24.17	Peak	286.00	200	Vertical	Pass
4**	7942.113	41.00	54.0	13.00	AV	286.00	200	Vertical	Pass
5	12492.887	55.35	74.0	18.66	Peak	337.00	200	Vertical	Pass
5**	12492.887	43.88	54.0	10.12	AV	337.00	200	Vertical	Pass
6	17104.569	56.40	74.0	17.60	Peak	153.00	300	Vertical	Pass
6**	17104.569	44.67	54.0	9.33	AV	153.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1509.402	38.21	74.0	35.79	Peak	102.00	100	Horizontal	Pass
1**	1509.402	29.62	54.0	24.38	AV	102.00	100	Horizontal	Pass
2	2877.479	43.09	74.0	30.91	Peak	215.00	400	Horizontal	Pass
2**	2877.479	33.18	54.0	20.82	AV	215.00	400	Horizontal	Pass
3	4042.526	47.04	74.0	26.96	Peak	272.00	200	Horizontal	Pass
3**	4042.526	37.87	54.0	16.13	AV	272.00	200	Horizontal	Pass
4	7497.634	53.69	74.0	20.31	Peak	204.00	200	Horizontal	Pass
4**	7497.634	44.25	54.0	9.75	AV	204.00	200	Horizontal	Pass
5	11490.963	51.65	74.0	22.35	Peak	89.00	400	Horizontal	Pass
5**	11490.963	43.24	54.0	10.76	AV	89.00	400	Horizontal	Pass
6	15921.323	53.03	74.0	20.97	Peak	38.00	400	Horizontal	Pass
6**	15921.323	43.97	54.0	10.04	AV	38.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1158.311	50.33	74.0	23.67	Peak	234.00	100	Vertical	Pass
1**	1158.311	31.78	54.0	22.22	AV	234.00	100	Vertical	Pass
2	1335.761	48.58	74.0	25.42	Peak	54.00	200	Vertical	Pass
2**	1335.761	35.93	54.0	18.07	AV	54.00	200	Vertical	Pass
3	4930.324	49.94	74.0	24.06	Peak	171.00	200	Vertical	Pass
3**	4930.324	38.14	54.0	15.86	AV	171.00	200	Vertical	Pass
4	7941.032	49.73	74.0	24.27	Peak	158.00	200	Vertical	Pass
4**	7941.032	40.90	54.0	13.10	AV	158.00	200	Vertical	Pass
5	12493.103	55.17	74.0	18.83	Peak	292.00	200	Vertical	Pass
5**	12493.103	43.65	54.0	10.35	AV	292.00	200	Vertical	Pass
6	17105.474	56.22	74.0	17.78	Peak	278.00	100	Vertical	Pass
6**	17105.474	44.54	54.0	9.47	AV	278.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.425	38.13	74.0	35.87	Peak	1.00	400	Horizontal	Pass
1**	1512.425	29.61	54.0	24.39	AV	1.00	400	Horizontal	Pass
2	2878.727	43.03	74.0	30.97	Peak	245.00	200	Horizontal	Pass
2**	2878.727	33.11	54.0	20.89	AV	245.00	200	Horizontal	Pass
3	4046.366	46.92	74.0	27.08	Peak	34.00	200	Horizontal	Pass
3**	4046.366	37.59	54.0	16.42	AV	34.00	200	Horizontal	Pass
4	7497.098	53.67	74.0	20.33	Peak	118.00	300	Horizontal	Pass
4**	7497.098	44.19	54.0	9.81	AV	118.00	300	Horizontal	Pass
5	11487.743	51.49	74.0	22.51	Peak	18.00	300	Horizontal	Pass
5**	11487.743	43.06	54.0	10.94	AV	18.00	300	Horizontal	Pass
6	15915.866	52.90	74.0	21.10	Peak	89.00	300	Horizontal	Pass
6**	15915.866	43.85	54.0	10.16	AV	89.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1159.044	50.13	74.0	23.87	Peak	220.00	100	Vertical	Pass
1**	1159.044	31.60	54.0	22.40	AV	220.00	100	Vertical	Pass
2	1336.934	48.44	74.0	25.56	Peak	288.00	200	Vertical	Pass
2**	1336.934	35.91	54.0	18.09	AV	288.00	200	Vertical	Pass
3	4929.364	49.67	74.0	24.33	Peak	238.00	200	Vertical	Pass
3**	4929.364	37.96	54.0	16.04	AV	238.00	200	Vertical	Pass
4	7934.798	49.69	74.0	24.31	Peak	38.00	200	Vertical	Pass
4**	7934.798	40.82	54.0	13.18	AV	38.00	200	Vertical	Pass
5	12494.099	54.94	74.0	19.07	Peak	116.00	100	Vertical	Pass
5**	12494.099	43.42	54.0	10.58	AV	116.00	100	Vertical	Pass
6	17104.213	56.16	74.0	17.84	Peak	304.00	100	Vertical	Pass
6**	17104.213	44.48	54.0	9.52	AV	304.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.943	38.11	74.0	35.89	Peak	296.00	400	Horizontal	Pass
1**	1512.943	29.32	54.0	24.69	AV	296.00	400	Horizontal	Pass
2	2871.817	42.84	74.0	31.16	Peak	352.00	200	Horizontal	Pass
2**	2871.817	33.01	54.0	20.99	AV	352.00	200	Horizontal	Pass
3	4047.438	46.78	74.0	27.22	Peak	81.00	200	Horizontal	Pass
3**	4047.438	37.50	54.0	16.50	AV	81.00	200	Horizontal	Pass
4	7494.814	53.42	74.0	20.58	Peak	29.00	300	Horizontal	Pass
4**	7494.814	43.90	54.0	10.10	AV	29.00	300	Horizontal	Pass
5	11491.400	51.46	74.0	22.54	Peak	3.00	400	Horizontal	Pass
5**	11491.400	42.89	54.0	11.11	AV	3.00	400	Horizontal	Pass
6	15916.139	52.65	74.0	21.35	Peak	356.00	300	Horizontal	Pass
6**	15916.139	43.63	54.0	10.38	AV	356.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.691	49.94	74.0	24.06	Peak	32.00	400	Vertical	Pass
1**	1160.691	31.49	54.0	22.51	AV	32.00	400	Vertical	Pass
2	1334.792	48.43	74.0	25.57	Peak	11.00	200	Vertical	Pass
2**	1334.792	35.84	54.0	18.16	AV	11.00	200	Vertical	Pass
3	4930.150	49.64	74.0	24.37	Peak	140.00	200	Vertical	Pass
3**	4930.150	37.89	54.0	16.11	AV	140.00	200	Vertical	Pass
4	7938.274	49.60	74.0	24.40	Peak	159.00	400	Vertical	Pass
4**	7938.274	40.69	54.0	13.31	AV	159.00	400	Vertical	Pass
5	12496.228	54.77	74.0	19.23	Peak	181.00	200	Vertical	Pass
5**	12496.228	43.25	54.0	10.75	AV	181.00	200	Vertical	Pass
6	17103.175	56.15	74.0	17.85	Peak	237.00	400	Vertical	Pass
6**	17103.175	44.25	54.0	9.75	AV	237.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1511.327	37.83	74.0	36.17	Peak	200.00	200	Horizontal	Pass
1**	1511.327	29.25	54.0	24.75	AV	200.00	200	Horizontal	Pass
2	2879.189	42.80	74.0	31.20	Peak	28.00	200	Horizontal	Pass
2**	2879.189	32.84	54.0	21.16	AV	28.00	200	Horizontal	Pass
3	4049.054	46.74	74.0	27.26	Peak	297.00	200	Horizontal	Pass
3**	4049.054	37.40	54.0	16.61	AV	297.00	200	Horizontal	Pass
4	7496.668	53.29	74.0	20.71	Peak	229.00	300	Horizontal	Pass
4**	7496.668	43.66	54.0	10.34	AV	229.00	300	Horizontal	Pass
5	11492.807	51.18	74.0	22.83	Peak	121.00	300	Horizontal	Pass
5**	11492.807	42.80	54.0	11.20	AV	121.00	300	Horizontal	Pass
6	15918.952	52.61	74.0	21.39	Peak	115.00	300	Horizontal	Pass
6**	15918.952	43.41	54.0	10.59	AV	115.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.078	49.65	74.0	24.35	Peak	343.00	100	Vertical	Pass
1**	1161.078	31.32	54.0	22.68	AV	343.00	100	Vertical	Pass
2	1332.591	48.30	74.0	25.70	Peak	302.00	200	Vertical	Pass
2**	1332.591	35.55	54.0	18.45	AV	302.00	200	Vertical	Pass
3	4929.987	49.44	74.0	24.56	Peak	342.00	200	Vertical	Pass
3**	4929.987	37.60	54.0	16.40	AV	342.00	200	Vertical	Pass
4	7941.777	49.49	74.0	24.51	Peak	278.00	200	Vertical	Pass
4**	7941.777	40.61	54.0	13.39	AV	278.00	200	Vertical	Pass
5	12491.139	54.49	74.0	19.51	Peak	194.00	300	Vertical	Pass
5**	12491.139	43.17	54.0	10.83	AV	194.00	300	Vertical	Pass
6	17105.849	56.03	74.0	17.97	Peak	110.00	300	Vertical	Pass
6**	17105.849	44.08	54.0	9.92	AV	110.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1514.462	37.63	74.0	36.37	Peak	65.00	200	Horizontal	Pass
1**	1514.462	28.97	54.0	25.03	AV	65.00	200	Horizontal	Pass
2	2872.604	42.73	74.0	31.27	Peak	29.00	300	Horizontal	Pass
2**	2872.604	32.56	54.0	21.44	AV	29.00	300	Horizontal	Pass
3	4050.210	46.61	74.0	27.39	Peak	208.00	200	Horizontal	Pass
3**	4050.210	37.16	54.0	16.84	AV	208.00	200	Horizontal	Pass
4	7498.388	53.08	74.0	20.92	Peak	253.00	200	Horizontal	Pass
4**	7498.388	43.49	54.0	10.51	AV	253.00	200	Horizontal	Pass
5	11487.737	50.92	74.0	23.08	Peak	105.00	400	Horizontal	Pass
5**	11487.737	42.69	54.0	11.31	AV	105.00	400	Horizontal	Pass
6	15916.447	52.31	74.0	21.69	Peak	72.00	300	Horizontal	Pass
6**	15916.447	43.11	54.0	10.89	AV	72.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.706	49.49	74.0	24.52	Peak	74.00	400	Vertical	Pass
1**	1161.706	31.30	54.0	22.70	AV	74.00	400	Vertical	Pass
2	1333.544	48.13	74.0	25.87	Peak	44.00	300	Vertical	Pass
2**	1333.544	35.55	54.0	18.46	AV	44.00	300	Vertical	Pass
3	4931.515	49.38	74.0	24.62	Peak	87.00	200	Vertical	Pass
3**	4931.515	37.35	54.0	16.65	AV	87.00	200	Vertical	Pass
4	7940.719	49.22	74.0	24.78	Peak	291.00	300	Vertical	Pass
4**	7940.719	40.50	54.0	13.50	AV	291.00	300	Vertical	Pass
5	12490.584	54.44	74.0	19.56	Peak	148.00	400	Vertical	Pass
5**	12490.584	43.04	54.0	10.96	AV	148.00	400	Vertical	Pass
6	17102.198	55.76	74.0	18.24	Peak	64.00	100	Vertical	Pass
6**	17102.198	44.08	54.0	9.92	AV	64.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.596	37.55	74.0	36.45	Peak	86.00	400	Horizontal	Pass
1**	1508.596	28.77	54.0	25.24	AV	86.00	400	Horizontal	Pass
2	2873.044	42.48	74.0	31.52	Peak	151.00	400	Horizontal	Pass
2**	2873.044	32.32	54.0	21.68	AV	151.00	400	Horizontal	Pass
3	4043.174	46.38	74.0	27.62	Peak	119.00	200	Horizontal	Pass
3**	4043.174	37.04	54.0	16.96	AV	119.00	200	Horizontal	Pass
4	7498.383	52.92	74.0	21.08	Peak	349.00	300	Horizontal	Pass
4**	7498.383	43.30	54.0	10.70	AV	349.00	300	Horizontal	Pass
5	11490.453	50.72	74.0	23.28	Peak	358.00	100	Horizontal	Pass
5**	11490.453	42.64	54.0	11.37	AV	358.00	100	Horizontal	Pass
6	15918.285	52.16	74.0	21.85	Peak	93.00	100	Horizontal	Pass
6**	15918.285	43.03	54.0	10.97	AV	93.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.641	49.43	74.0	24.58	Peak	172.00	400	Vertical	Pass
1**	1161.641	31.18	54.0	22.82	AV	172.00	400	Vertical	Pass
2	1336.237	47.92	74.0	26.08	Peak	357.00	300	Vertical	Pass
2**	1336.237	35.52	54.0	18.48	AV	357.00	300	Vertical	Pass
3	4929.074	49.22	74.0	24.78	Peak	345.00	200	Vertical	Pass
3**	4929.074	37.34	54.0	16.66	AV	345.00	200	Vertical	Pass
4	7941.910	49.00	74.0	25.00	Peak	118.00	100	Vertical	Pass
4**	7941.910	40.33	54.0	13.67	AV	118.00	100	Vertical	Pass
5	12489.516	54.31	74.0	19.69	Peak	93.00	300	Vertical	Pass
5**	12489.516	42.92	54.0	11.08	AV	93.00	300	Vertical	Pass
6	17098.653	55.54	74.0	18.46	Peak	171.00	100	Vertical	Pass
6**	17098.653	43.87	54.0	10.13	AV	171.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.498	38.15	74.0	35.85	Peak	60.00	100	Horizontal	Pass
1**	1508.498	29.38	54.0	24.62	AV	60.00	100	Horizontal	Pass
2	2876.337	43.19	74.0	30.81	Peak	184.00	200	Horizontal	Pass
2**	2876.337	33.37	54.0	20.63	AV	184.00	200	Horizontal	Pass
3	4045.985	46.98	74.0	27.02	Peak	131.00	200	Horizontal	Pass
3**	4045.985	37.88	54.0	16.12	AV	131.00	200	Horizontal	Pass
4	7498.220	53.62	74.0	20.38	Peak	194.00	300	Horizontal	Pass
4**	7498.220	44.06	54.0	9.94	AV	194.00	300	Horizontal	Pass
5	11494.546	51.79	74.0	22.22	Peak	175.00	300	Horizontal	Pass
5**	11494.546	43.14	54.0	10.86	AV	175.00	300	Horizontal	Pass
6	15919.858	52.99	74.0	21.01	Peak	272.00	200	Horizontal	Pass
6**	15919.858	43.95	54.0	10.05	AV	272.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.377	50.31	74.0	23.69	Peak	145.00	200	Vertical	Pass
1**	1161.377	31.89	54.0	22.11	AV	145.00	200	Vertical	Pass
2	1336.074	48.60	74.0	25.40	Peak	256.00	200	Vertical	Pass
2**	1336.074	35.95	54.0	18.05	AV	256.00	200	Vertical	Pass
3	4930.402	49.73	74.0	24.27	Peak	49.00	200	Vertical	Pass
3**	4930.402	38.21	54.0	15.79	AV	49.00	200	Vertical	Pass
4	7937.901	49.71	74.0	24.29	Peak	243.00	100	Vertical	Pass
4**	7937.901	40.77	54.0	13.23	AV	243.00	100	Vertical	Pass
5	12490.089	55.18	74.0	18.82	Peak	102.00	400	Vertical	Pass
5**	12490.089	43.71	54.0	10.29	AV	102.00	400	Vertical	Pass
6	17100.723	56.21	74.0	17.79	Peak	354.00	300	Vertical	Pass
6**	17100.723	44.45	54.0	9.55	AV	354.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1509.260	38.13	74.0	35.87	Peak	24.00	300	Horizontal	Pass
1**	1509.260	29.61	54.0	24.39	AV	24.00	300	Horizontal	Pass
2	2879.197	42.84	74.0	31.16	Peak	169.00	400	Horizontal	Pass
2**	2879.197	32.95	54.0	21.05	AV	169.00	400	Horizontal	Pass
3	4043.433	46.81	74.0	27.20	Peak	134.00	200	Horizontal	Pass
3**	4043.433	37.58	54.0	16.42	AV	134.00	200	Horizontal	Pass
4	7492.621	53.65	74.0	20.35	Peak	295.00	100	Horizontal	Pass
4**	7492.621	44.21	54.0	9.79	AV	295.00	100	Horizontal	Pass
5	11488.177	51.37	74.0	22.64	Peak	196.00	300	Horizontal	Pass
5**	11488.177	43.01	54.0	11.00	AV	196.00	300	Horizontal	Pass
6	15919.066	52.80	74.0	21.21	Peak	316.00	100	Horizontal	Pass
6**	15919.066	43.68	54.0	10.32	AV	316.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.658	50.23	74.0	23.77	Peak	80.00	300	Vertical	Pass
1**	1161.658	31.67	54.0	22.34	AV	80.00	300	Vertical	Pass
2	1332.742	48.35	74.0	25.65	Peak	39.00	300	Vertical	Pass
2**	1332.742	35.90	54.0	18.10	AV	39.00	300	Vertical	Pass
3	4930.021	49.67	74.0	24.33	Peak	298.00	200	Vertical	Pass
3**	4930.021	38.13	54.0	15.87	AV	298.00	200	Vertical	Pass
4	7937.309	49.62	74.0	24.38	Peak	60.00	300	Vertical	Pass
4**	7937.309	40.61	54.0	13.39	AV	60.00	300	Vertical	Pass
5	12494.679	55.00	74.0	19.00	Peak	292.00	100	Vertical	Pass
5**	12494.679	43.51	54.0	10.49	AV	292.00	100	Vertical	Pass
6	17103.902	56.06	74.0	17.94	Peak	179.00	200	Vertical	Pass
6**	17103.902	44.29	54.0	9.71	AV	179.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1510.482	37.94	74.0	36.06	Peak	312.00	300	Horizontal	Pass
1**	1510.482	29.45	54.0	24.55	AV	312.00	300	Horizontal	Pass
2	2876.823	42.90	74.0	31.10	Peak	165.00	100	Horizontal	Pass
2**	2876.823	33.00	54.0	21.00	AV	165.00	100	Horizontal	Pass
3	4048.288	46.77	74.0	27.24	Peak	356.00	200	Horizontal	Pass
3**	4048.288	37.44	54.0	16.57	AV	356.00	200	Horizontal	Pass
4	7491.763	53.51	74.0	20.49	Peak	334.00	400	Horizontal	Pass
4**	7491.763	44.16	54.0	9.84	AV	334.00	400	Horizontal	Pass
5	11494.834	51.46	74.0	22.54	Peak	249.00	200	Horizontal	Pass
5**	11494.834	42.82	54.0	11.18	AV	249.00	200	Horizontal	Pass
6	15915.110	52.83	74.0	21.17	Peak	12.00	300	Horizontal	Pass
6**	15915.110	43.70	54.0	10.30	AV	12.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1157.977	49.99	74.0	24.01	Peak	80.00	200	Vertical	Pass
1**	1157.977	31.44	54.0	22.57	AV	80.00	200	Vertical	Pass
2	1337.763	48.21	74.0	25.79	Peak	344.00	100	Vertical	Pass
2**	1337.763	35.72	54.0	18.28	AV	344.00	100	Vertical	Pass
3	4928.779	49.59	74.0	24.41	Peak	181.00	200	Vertical	Pass
3**	4928.779	37.67	54.0	16.33	AV	181.00	200	Vertical	Pass
4	7934.545	49.39	74.0	24.61	Peak	264.00	400	Vertical	Pass
4**	7934.545	40.65	54.0	13.35	AV	264.00	400	Vertical	Pass
5	12496.999	54.70	74.0	19.30	Peak	17.00	400	Vertical	Pass
5**	12496.999	43.42	54.0	10.58	AV	17.00	400	Vertical	Pass
6	17098.663	56.15	74.0	17.85	Peak	306.00	100	Vertical	Pass
6**	17098.663	44.32	54.0	9.68	AV	306.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1515.450	37.83	74.0	36.17	Peak	23.00	300	Horizontal	Pass
1**	1515.450	29.20	54.0	24.80	AV	23.00	300	Horizontal	Pass
2	2875.842	42.69	74.0	31.31	Peak	136.00	400	Horizontal	Pass
2**	2875.842	32.88	54.0	21.12	AV	136.00	400	Horizontal	Pass
3	4047.715	46.56	74.0	27.44	Peak	316.00	200	Horizontal	Pass
3**	4047.715	37.42	54.0	16.58	AV	316.00	200	Horizontal	Pass
4	7498.500	53.41	74.0	20.59	Peak	64.00	300	Horizontal	Pass
4**	7498.500	43.90	54.0	10.10	AV	64.00	300	Horizontal	Pass
5	11491.364	51.17	74.0	22.83	Peak	35.00	100	Horizontal	Pass
5**	11491.364	42.65	54.0	11.35	AV	35.00	100	Horizontal	Pass
6	15918.499	52.59	74.0	21.41	Peak	210.00	300	Horizontal	Pass
6**	15918.499	43.51	54.0	10.49	AV	210.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.808	49.65	74.0	24.35	Peak	306.00	400	Vertical	Pass
1**	1156.808	31.40	54.0	22.61	AV	306.00	400	Vertical	Pass
2	1337.693	48.23	74.0	25.78	Peak	210.00	300	Vertical	Pass
2**	1337.693	35.74	54.0	18.26	AV	210.00	300	Vertical	Pass
3	4932.207	49.58	74.0	24.42	Peak	197.00	200	Vertical	Pass
3**	4932.207	37.62	54.0	16.38	AV	197.00	200	Vertical	Pass
4	7935.765	49.35	74.0	24.65	Peak	127.00	200	Vertical	Pass
4**	7935.765	40.50	54.0	13.50	AV	127.00	200	Vertical	Pass
5	12492.580	54.52	74.0	19.48	Peak	27.00	100	Vertical	Pass
5**	12492.580	42.96	54.0	11.04	AV	27.00	100	Vertical	Pass
6	17102.495	56.05	74.0	17.95	Peak	256.00	200	Vertical	Pass
6**	17102.495	44.10	54.0	9.90	AV	256.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1509.771	37.64	74.0	36.36	Peak	190.00	200	Horizontal	Pass
1**	1509.771	29.18	54.0	24.82	AV	190.00	200	Horizontal	Pass
2	2878.748	42.62	74.0	31.38	Peak	92.00	200	Horizontal	Pass
2**	2878.748	32.55	54.0	21.46	AV	92.00	200	Horizontal	Pass
3	4048.952	46.57	74.0	27.43	Peak	343.00	200	Horizontal	Pass
3**	4048.952	37.10	54.0	16.90	AV	343.00	200	Horizontal	Pass
4	7499.484	52.99	74.0	21.01	Peak	266.00	300	Horizontal	Pass
4**	7499.484	43.63	54.0	10.37	AV	266.00	300	Horizontal	Pass
5	11490.669	51.16	74.0	22.84	Peak	300.00	100	Horizontal	Pass
5**	11490.669	42.70	54.0	11.30	AV	300.00	100	Horizontal	Pass
6	15919.420	52.50	74.0	21.50	Peak	130.00	200	Horizontal	Pass
6**	15919.420	43.40	54.0	10.60	AV	130.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1157.738	49.36	74.0	24.64	Peak	248.00	200	Vertical	Pass
1**	1157.738	31.32	54.0	22.69	AV	248.00	200	Vertical	Pass
2	1337.321	48.01	74.0	25.99	Peak	40.00	100	Vertical	Pass
2**	1337.321	35.44	54.0	18.56	AV	40.00	100	Vertical	Pass
3	4927.513	49.19	74.0	24.82	Peak	261.00	200	Vertical	Pass
3**	4927.513	37.58	54.0	16.42	AV	261.00	200	Vertical	Pass
4	7938.079	49.23	74.0	24.77	Peak	328.00	400	Vertical	Pass
4**	7938.079	40.46	54.0	13.54	AV	328.00	400	Vertical	Pass
5	12497.201	54.45	74.0	19.56	Peak	42.00	400	Vertical	Pass
5**	12497.201	43.12	54.0	10.88	AV	42.00	400	Vertical	Pass
6	17103.688	55.95	74.0	18.05	Peak	120.00	300	Vertical	Pass
6**	17103.688	43.81	54.0	10.19	AV	120.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.963	37.39	74.0	36.62	Peak	157.00	100	Horizontal	Pass
1**	1508.963	28.68	54.0	25.32	AV	157.00	100	Horizontal	Pass
2	2871.347	42.53	74.0	31.47	Peak	279.00	100	Horizontal	Pass
2**	2871.347	32.32	54.0	21.68	AV	279.00	100	Horizontal	Pass
3	4050.094	46.50	74.0	27.50	Peak	94.00	200	Horizontal	Pass
3**	4050.094	36.98	54.0	17.02	AV	94.00	200	Horizontal	Pass
4	7493.823	53.02	74.0	20.98	Peak	55.00	300	Horizontal	Pass
4**	7493.823	43.21	54.0	10.79	AV	55.00	300	Horizontal	Pass
5	11489.263	50.76	74.0	23.24	Peak	45.00	300	Horizontal	Pass
5**	11489.263	42.63	54.0	11.37	AV	45.00	300	Horizontal	Pass
6	15917.761	52.13	74.0	21.87	Peak	275.00	200	Horizontal	Pass
6**	15917.761	42.92	54.0	11.08	AV	275.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1155.327	49.25	74.0	24.75	Peak	2.00	100	Vertical	Pass
1**	1155.327	31.11	54.0	22.89	AV	2.00	100	Vertical	Pass
2	1332.691	47.85	74.0	26.15	Peak	277.00	300	Vertical	Pass
2**	1332.691	35.31	54.0	18.69	AV	277.00	300	Vertical	Pass
3	4931.402	49.26	74.0	24.74	Peak	326.00	200	Vertical	Pass
3**	4931.402	37.19	54.0	16.81	AV	326.00	200	Vertical	Pass
4	7940.121	48.92	74.0	25.08	Peak	105.00	200	Vertical	Pass
4**	7940.121	40.31	54.0	13.69	AV	105.00	200	Vertical	Pass
5	12492.151	54.29	74.0	19.71	Peak	222.00	400	Vertical	Pass
5**	12492.151	42.81	54.0	11.19	AV	222.00	400	Vertical	Pass
6	17100.643	55.69	74.0	18.32	Peak	180.00	200	Vertical	Pass
6**	17100.643	43.80	54.0	10.21	AV	180.00	200	Vertical	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.639	38.41	74.0	35.59	Peak	89.00	100	Horizontal	Pass
1**	1512.639	29.43	54.0	24.57	AV	89.00	100	Horizontal	Pass
2	2873.241	43.24	74.0	30.76	Peak	233.00	400	Horizontal	Pass
2**	2873.241	33.28	54.0	20.72	AV	233.00	400	Horizontal	Pass
3	4049.783	47.04	74.0	26.96	Peak	352.00	200	Horizontal	Pass
3**	4049.783	38.05	54.0	15.95	AV	352.00	200	Horizontal	Pass
4	7495.468	53.51	74.0	20.50	Peak	78.00	400	Horizontal	Pass
4**	7495.468	43.99	54.0	10.01	AV	78.00	400	Horizontal	Pass
5	11493.191	51.56	74.0	22.44	Peak	349.00	300	Horizontal	Pass
5**	11493.191	43.12	54.0	10.88	AV	349.00	300	Horizontal	Pass
6	15917.808	52.95	74.0	21.06	Peak	309.00	200	Horizontal	Pass
6**	15917.808	43.98	54.0	10.02	AV	309.00	200	Horizontal	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.920	50.21	74.0	23.79	Peak	157.00	400	Vertical	Pass
1**	1162.920	31.82	54.0	22.18	AV	157.00	400	Vertical	Pass
2	1338.264	48.79	74.0	25.21	Peak	353.00	400	Vertical	Pass
2**	1338.264	35.95	54.0	18.05	AV	353.00	400	Vertical	Pass
3	4932.245	49.83	74.0	24.17	Peak	116.00	200	Vertical	Pass
3**	4932.245	37.92	54.0	16.08	AV	116.00	200	Vertical	Pass
4	7938.570	49.68	74.0	24.32	Peak	182.00	100	Vertical	Pass
4**	7938.570	40.94	54.0	13.06	AV	182.00	100	Vertical	Pass
5	12494.065	55.25	74.0	18.75	Peak	349.00	200	Vertical	Pass
5**	12494.065	43.75	54.0	10.25	AV	349.00	200	Vertical	Pass
6	17105.876	56.17	74.0	17.83	Peak	109.00	100	Vertical	Pass
6**	17105.876	44.65	54.0	9.35	AV	109.00	100	Vertical	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1514.412	38.09	74.0	35.91	Peak	229.00	300	Horizontal	Pass
1**	1514.412	29.62	54.0	24.38	AV	229.00	300	Horizontal	Pass
2	2873.780	43.02	74.0	30.98	Peak	159.00	300	Horizontal	Pass
2**	2873.780	33.04	54.0	20.96	AV	159.00	300	Horizontal	Pass
3	4049.254	47.04	74.0	26.96	Peak	138.00	200	Horizontal	Pass
3**	4049.254	37.85	54.0	16.15	AV	138.00	200	Horizontal	Pass
4	7496.659	53.56	74.0	20.44	Peak	202.00	100	Horizontal	Pass
4**	7496.659	44.10	54.0	9.90	AV	202.00	100	Horizontal	Pass
5	11492.542	51.40	74.0	22.60	Peak	209.00	200	Horizontal	Pass
5**	11492.542	43.00	54.0	11.00	AV	209.00	200	Horizontal	Pass
6	15914.867	52.89	74.0	21.11	Peak	2.00	300	Horizontal	Pass
6**	15914.867	43.75	54.0	10.25	AV	2.00	300	Horizontal	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1158.766	50.33	74.0	23.67	Peak	256.00	300	Vertical	Pass
1**	1158.766	31.57	54.0	22.44	AV	256.00	300	Vertical	Pass
2	1333.370	48.39	74.0	25.61	Peak	229.00	100	Vertical	Pass
2**	1333.370	35.64	54.0	18.36	AV	229.00	100	Vertical	Pass
3	4928.745	49.68	74.0	24.32	Peak	91.00	200	Vertical	Pass
3**	4928.745	38.08	54.0	15.92	AV	91.00	200	Vertical	Pass
4	7935.062	49.62	74.0	24.38	Peak	308.00	100	Vertical	Pass
4**	7935.062	40.64	54.0	13.36	AV	308.00	100	Vertical	Pass
5	12491.475	55.15	74.0	18.85	Peak	301.00	300	Vertical	Pass
5**	12491.475	43.64	54.0	10.36	AV	301.00	300	Vertical	Pass
6	17104.777	55.94	74.0	18.06	Peak	291.00	400	Vertical	Pass
6**	17104.777	44.36	54.0	9.64	AV	291.00	400	Vertical	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1508.375	38.04	74.0	35.96	Peak	358.00	300	Horizontal	Pass
1**	1508.375	29.32	54.0	24.68	AV	358.00	300	Horizontal	Pass
2	2873.478	42.83	74.0	31.17	Peak	253.00	300	Horizontal	Pass
2**	2873.478	32.94	54.0	21.06	AV	253.00	300	Horizontal	Pass
3	4049.657	46.72	74.0	27.28	Peak	35.00	200	Horizontal	Pass
3**	4049.657	37.43	54.0	16.57	AV	35.00	200	Horizontal	Pass
4	7492.492	53.54	74.0	20.46	Peak	201.00	400	Horizontal	Pass
4**	7492.492	43.95	54.0	10.05	AV	201.00	400	Horizontal	Pass
5	11488.377	51.35	74.0	22.65	Peak	226.00	300	Horizontal	Pass
5**	11488.377	42.97	54.0	11.03	AV	226.00	300	Horizontal	Pass
6	15920.464	52.80	74.0	21.20	Peak	71.00	100	Horizontal	Pass
6**	15920.464	43.56	54.0	10.44	AV	71.00	100	Horizontal	Pass

11ax20(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1156.323	50.04	74.0	23.96	Peak	7.00	200	Vertical	Pass
1**	1156.323	31.48	54.0	22.52	AV	7.00	200	Vertical	Pass
2	1332.041	48.24	74.0	25.76	Peak	289.00	100	Vertical	Pass
2**	1332.041	35.81	54.0	18.19	AV	289.00	100	Vertical	Pass
3	4930.824	49.41	74.0	24.60	Peak	36.00	200	Vertical	Pass
3**	4930.824	37.69	54.0	16.32	AV	36.00	200	Vertical	Pass
4	7936.325	49.46	74.0	24.54	Peak	55.00	200	Vertical	Pass
4**	7936.325	40.59	54.0	13.41	AV	55.00	200	Vertical	Pass
5	12492.471	54.71	74.0	19.29	Peak	251.00	200	Vertical	Pass
5**	12492.471	43.14	54.0	10.86	AV	251.00	200	Vertical	Pass
6	17099.463	56.03	74.0	17.97	Peak	272.00	400	Vertical	Pass
6**	17099.463	44.36	54.0	9.64	AV	272.00	400	Vertical	Pass

11ax40(SU), U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1511.707	37.82	74.0	36.18	Peak	290.00	200	Horizontal	Pass
1**	1511.707	29.10	54.0	24.90	AV	290.00	200	Horizontal	Pass
2	2871.652	42.77	74.0	31.23	Peak	217.00	400	Horizontal	Pass
2**	2871.652	32.99	54.0	21.01	AV	217.00	400	Horizontal	Pass
3	4049.945	46.64	74.0	27.36	Peak	83.00	200	Horizontal	Pass
3**	4049.945	37.47	54.0	16.53	AV	83.00	200	Horizontal	Pass
4	7493.832	53.21	74.0	20.79	Peak	220.00	100	Horizontal	Pass
4**	7493.832	43.61	54.0	10.39	AV	220.00	100	Horizontal	Pass
5	11493.682	51.37	74.0	22.63	Peak	17.00	400	Horizontal	Pass
5**	11493.682	42.76	54.0	11.24	AV	17.00	400	Horizontal	Pass
6	15919.310	52.45	74.0	21.55	Peak	194.00	100	Horizontal	Pass
6**	15919.310	43.52	54.0	10.48	AV	194.00	100	Horizontal	Pass

11ax40(SU), U-NII-3, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.589	49.71	74.0	24.29	Peak	119.00	200	Vertical	Pass
1**	1162.589	31.38	54.0	22.63	AV	119.00	200	Vertical	Pass
2	1338.148	48.20	74.0	25.80	Peak	22.00	100	Vertical	Pass
2**	1338.148	35.77	54.0	18.23	AV	22.00	100	Vertical	Pass
3	4926.067	49.42	74.0	24.58	Peak	117.00	200	Vertical	Pass
3**	4926.067	37.87	54.0	16.13	AV	117.00	200	Vertical	Pass
4	7941.826	49.58	74.0	24.42	Peak	306.00	400	Vertical	Pass
4**	7941.826	40.57	54.0	13.43	AV	306.00	400	Vertical	Pass
5	12495.284	54.70	74.0	19.30	Peak	201.00	400	Vertical	Pass
5**	12495.284	43.08	54.0	10.92	AV	201.00	400	Vertical	Pass
6	17099.781	55.93	74.0	18.08	Peak	98.00	200	Vertical	Pass
6**	17099.781	44.18	54.0	9.83	AV	98.00	200	Vertical	Pass

11ax40(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1514.295	37.53	74.0	36.47	Peak	335.00	200	Horizontal	Pass
1**	1514.295	29.09	54.0	24.91	AV	335.00	200	Horizontal	Pass
2	2879.036	42.57	74.0	31.43	Peak	257.00	200	Horizontal	Pass
2**	2879.036	32.81	54.0	21.19	AV	257.00	200	Horizontal	Pass
3	4050.030	46.74	74.0	27.26	Peak	55.00	200	Horizontal	Pass
3**	4050.030	37.18	54.0	16.82	AV	55.00	200	Horizontal	Pass
4	7497.928	53.01	74.0	20.99	Peak	305.00	300	Horizontal	Pass
4**	7497.928	43.58	54.0	10.42	AV	305.00	300	Horizontal	Pass
5	11487.689	51.13	74.0	22.87	Peak	155.00	300	Horizontal	Pass
5**	11487.689	42.53	54.0	11.48	AV	155.00	300	Horizontal	Pass
6	15917.475	52.59	74.0	21.41	Peak	326.00	400	Horizontal	Pass
6**	15917.475	43.21	54.0	10.79	AV	326.00	400	Horizontal	Pass

11ax40(SU), U-NII-3, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1160.113	49.59	74.0	24.41	Peak	152.00	300	Vertical	Pass
1**	1160.113	31.13	54.0	22.87	AV	152.00	300	Vertical	Pass
2	1331.569	48.14	74.0	25.86	Peak	156.00	100	Vertical	Pass
2**	1331.569	35.54	54.0	18.46	AV	156.00	100	Vertical	Pass
3	4933.233	49.19	74.0	24.81	Peak	115.00	200	Vertical	Pass
3**	4933.233	37.46	54.0	16.54	AV	115.00	200	Vertical	Pass
4	7938.650	49.35	74.0	24.65	Peak	24.00	100	Vertical	Pass
4**	7938.650	40.58	54.0	13.42	AV	24.00	100	Vertical	Pass
5	12496.084	54.25	74.0	19.75	Peak	255.00	200	Vertical	Pass
5**	12496.084	42.91	54.0	11.09	AV	255.00	200	Vertical	Pass
6	17101.822	55.77	74.0	18.23	Peak	214.00	100	Vertical	Pass
6**	17101.822	44.05	54.0	9.95	AV	214.00	100	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ax(HE20)(SU)	Low	Pass
		High	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
	802.11ax(HE20)(SU)	Low	Pass
		High	Pass
	802.11ax(HE40)(SU)	Low	Pass
		High	Pass

Note ¹: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ²: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

U-NII-1 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.143	65.67	74.0	8.33	Peak	9.00	200	Horizontal	Pass
1**	5147.143	48.27	54.0	5.73	AV	9.00	200	Horizontal	Pass
2	5150.000	67.12	74.0	6.88	Peak	84.00	300	Horizontal	Pass
2**	5150.000	49.03	54.0	4.97	AV	84.00	300	Horizontal	Pass

U-NII-1 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.68	74.0	18.32	Peak	76.00	200	Horizontal	Pass
1**	5350.000	44.70	54.0	9.30	AV	76.00	200	Horizontal	Pass
2	5398.009	56.78	74.0	17.22	Peak	61.00	300	Horizontal	Pass
2**	5398.009	44.14	54.0	9.86	AV	61.00	300	Horizontal	Pass

U-NII-1 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.510	65.55	74.0	8.45	Peak	305.00	300	Horizontal	Pass
1**	5147.510	47.86	54.0	6.14	AV	305.00	300	Horizontal	Pass
2	5150.000	66.97	74.0	7.03	Peak	69.00	100	Horizontal	Pass
2**	5150.000	48.66	54.0	5.34	AV	69.00	100	Horizontal	Pass

U-NII-1 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.38	74.0	18.62	Peak	94.00	200	Horizontal	Pass
1**	5350.000	44.79	54.0	9.21	AV	94.00	200	Horizontal	Pass
2	5396.270	56.97	74.0	17.03	Peak	232.00	300	Horizontal	Pass
2**	5396.270	43.84	54.0	10.16	AV	232.00	300	Horizontal	Pass

U-NII-1 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5147.278	62.26	74.0	11.74	Peak	251.00	300	Horizontal	Pass
1**	5147.278	48.41	54.0	5.59	AV	251.00	300	Horizontal	Pass
2	5150.000	59.99	74.0	14.01	Peak	226.00	200	Horizontal	Pass
2**	5150.000	48.79	54.0	5.21	AV	226.00	200	Horizontal	Pass

U-NII-1 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.46	74.0	18.54	Peak	251.00	200	Horizontal	Pass
1**	5350.000	44.93	54.0	9.07	AV	251.00	200	Horizontal	Pass
2	5395.534	56.80	74.0	17.20	Peak	99.00	200	Horizontal	Pass
2**	5395.534	44.08	54.0	9.92	AV	99.00	200	Horizontal	Pass

U-NII-1 11ac20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.331	61.69	74.0	12.31	Peak	304.00	300	Horizontal	Pass
1**	5148.331	48.51	54.0	5.49	AV	304.00	300	Horizontal	Pass
2	5150.000	59.78	74.0	14.22	Peak	93.00	300	Horizontal	Pass
2**	5150.000	48.09	54.0	5.91	AV	93.00	300	Horizontal	Pass

U-NII-1 11ac20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.00	74.0	18.00	Peak	224.00	100	Horizontal	Pass
1**	5350.000	44.43	54.0	9.57	AV	224.00	100	Horizontal	Pass
2	5396.290	56.98	74.0	17.02	Peak	273.00	100	Horizontal	Pass
2**	5396.290	44.43	54.0	9.57	AV	273.00	100	Horizontal	Pass

U-NII-1 11ac40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.028	61.54	74.0	12.46	Peak	142.00	300	Horizontal	Pass
1**	5148.028	48.91	54.0	5.09	AV	142.00	300	Horizontal	Pass
2	5150.000	59.33	74.0	14.67	Peak	241.00	300	Horizontal	Pass
2**	5150.000	48.05	54.0	5.95	AV	241.00	300	Horizontal	Pass

U-NII-1 11ac40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.12	74.0	17.88	Peak	281.00	200	Horizontal	Pass
1**	5350.000	44.63	54.0	9.37	AV	281.00	200	Horizontal	Pass
2	5395.827	56.67	74.0	17.33	Peak	250.00	100	Horizontal	Pass
2**	5395.827	44.59	54.0	9.41	AV	250.00	100	Horizontal	Pass

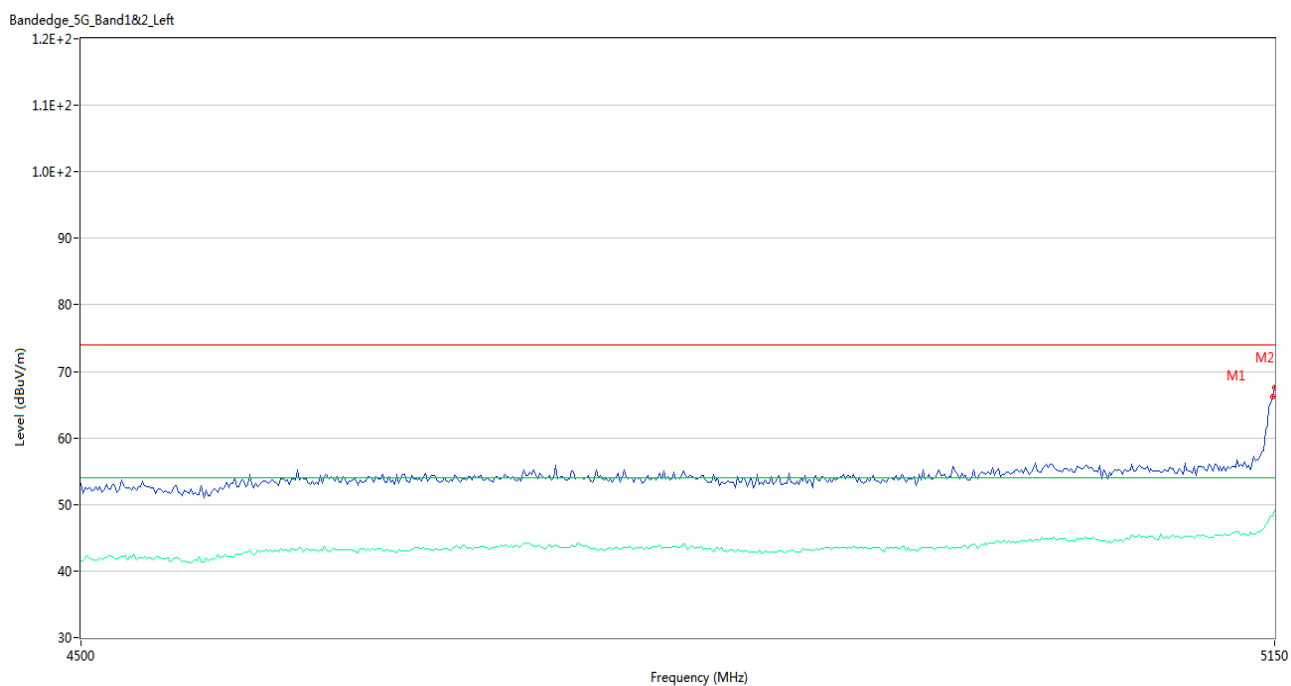
U-NII-1 11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5140.068	61.28	74.0	12.72	Peak	207.00	200	Horizontal	Pass
1**	5140.068	45.58	54.0	8.42	AV	207.00	200	Horizontal	Pass
2	5150.000	57.29	74.0	16.71	Peak	312.00	200	Horizontal	Pass
2**	5150.000	48.49	54.0	5.51	AV	312.00	200	Horizontal	Pass

U-NII-1 11ax20(SU) High Channel

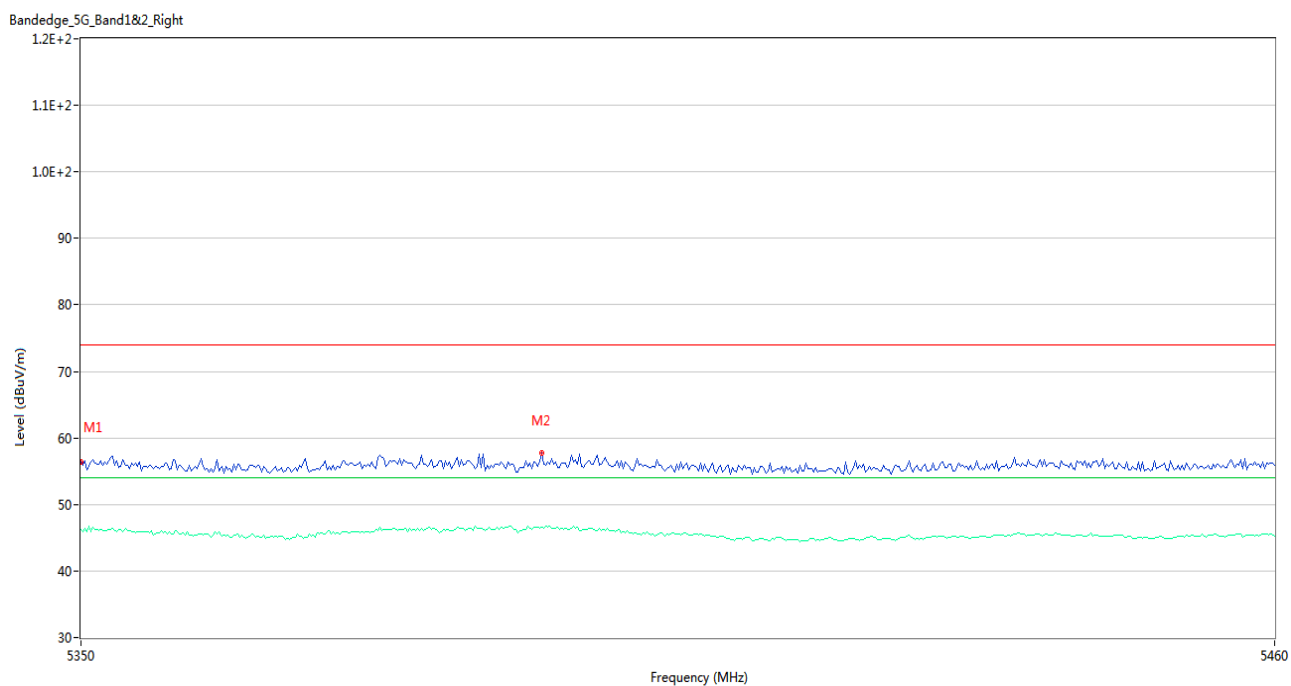
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.83	74.0	18.17	Peak	270.00	200	Horizontal	Pass
1**	5350.000	44.97	54.0	9.03	AV	270.00	200	Horizontal	Pass
2	5395.981	56.78	74.0	17.22	Peak	110.00	200	Horizontal	Pass
2**	5395.981	44.74	54.0	9.26	AV	110.00	200	Horizontal	Pass

U-NII-1 11ax40(SU) Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5148.917	66.22	74.0	7.78	Peak	69.00	100	Horizontal	Pass
1**	5148.917	48.35	54.0	5.65	AV	69.00	100	Horizontal	Pass
2	5150.000	67.52	74.0	6.48	Peak	315.00	200	Horizontal	Pass
2**	5150.000	49.13	54.0	4.87	AV	315.00	200	Horizontal	Pass

U-NII-1 11ax40(SU) High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.41	74.0	17.59	Peak	164.00	200	Horizontal	Pass
1**	5350.000	46.32	54.0	7.68	AV	164.00	200	Horizontal	Pass
2	5392.166	57.68	74.0	16.32	Peak	51.00	200	Horizontal	Pass
2**	5392.166	46.50	54.0	7.50	AV	51.00	200	Horizontal	Pass

U-NII-3 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.744	55.82	68.4	12.58	Peak	111.00	100	Horizontal	Pass
2	5650.000	57.24	68.2	10.96	Peak	111.00	100	Horizontal	Pass

U-NII-3 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	55.08	68.2	13.12	Peak	358.00	100	Horizontal	Pass
2	5941.817	57.50	68.2	10.70	Peak	24.00	300	Horizontal	Pass

U-NII-3 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5922.721	54.341	68.4	14.06	Peak	309.00	200	Horizontal	Pass
2	5650.000	56.071	68.2	12.13	Peak	309.00	200	Horizontal	Pass

U-NII-3 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	52.306	68.2	15.89	Peak	152.00	200	Horizontal	Pass
2	5943.688	58.13	68.2	10.07	Peak	157.00	300	Horizontal	Pass

U-NII-3 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5921.147	52.251	68.4	16.15	Peak	158.00	300	Horizontal	Pass
2	5650.000	54.441	68.2	13.76	Peak	158.00	300	Horizontal	Pass

U-NII-3 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	51.606	68.2	16.59	Peak	208.00	300	Horizontal	Pass
2	5943.801	58.08	68.2	10.12	Peak	335.00	300	Horizontal	Pass

U-NII-3 11ac20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5921.146	49.401	68.4	19.00	Peak	58.00	200	Horizontal	Pass
2	5650.000	51.971	68.2	16.23	Peak	58.00	200	Horizontal	Pass

U-NII-3 11ac20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	52.086	68.2	16.11	Peak	266.00	300	Horizontal	Pass
2	5945.085	56.48	68.2	11.72	Peak	11.00	100	Horizontal	Pass

U-NII-3 11ac40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5919.088	56.411	68.4	11.99	Peak	48.00	300	Horizontal	Pass
2	5650.000	50.441	68.2	17.76	Peak	48.00	300	Horizontal	Pass

U-NII-3 11ac40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	51.206	68.2	16.99	Peak	191.00	300	Horizontal	Pass
2	5947.379	56.99	68.2	11.21	Peak	180.00	100	Horizontal	Pass

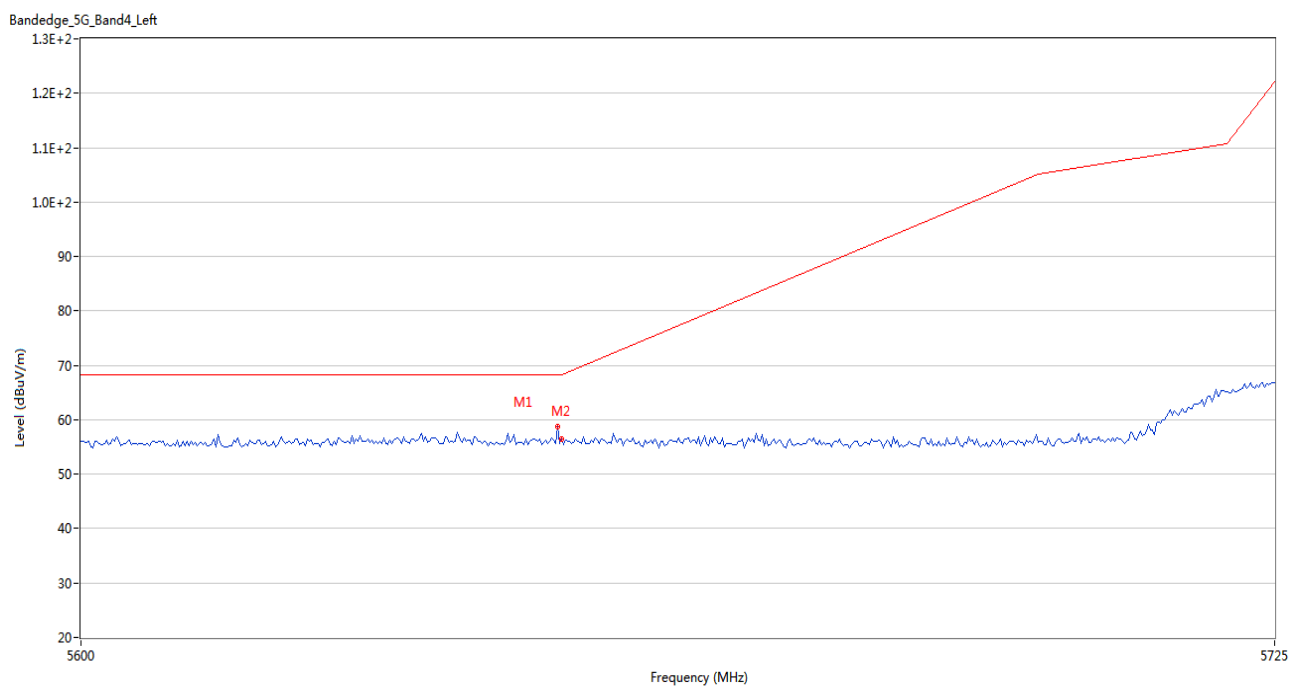
U-NII-3 11ax20(SU) Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5917.268	55.861	68.4	12.54	Peak	280.00	300	Horizontal	Pass
2	5650.000	55.811	68.2	12.39	Peak	280.00	300	Horizontal	Pass

U-NII-3 11ax20(SU) High Channel

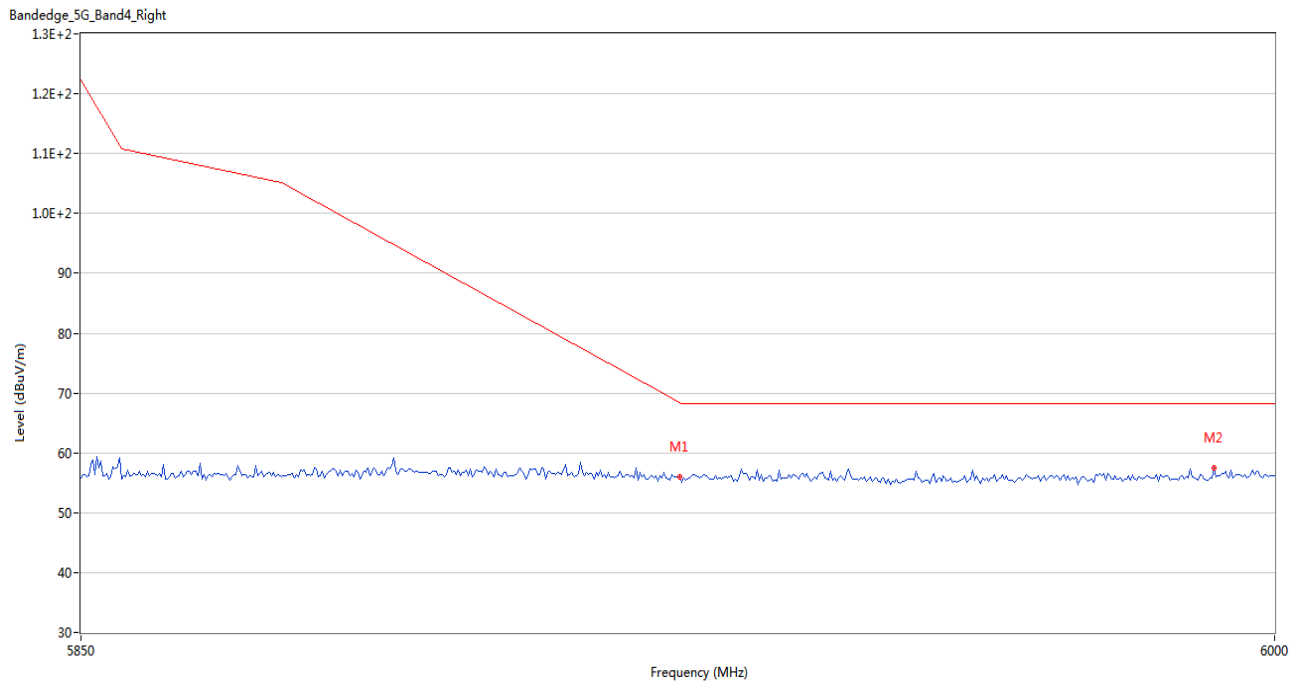
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	53.456	68.2	14.74	Peak	152.00	300	Horizontal	Pass
2	5950.338	53.64	68.2	14.56	Peak	303.00	200	Horizontal	Pass

U-NII-3 11ax40(SU) Low Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5649.584	58.76	68.2	9.44	Peak	28.00	300	Horizontal	Pass
2	5650.000	56.55	68.2	11.65	Peak	28.00	300	Horizontal	Pass

U-NII-3 11ax40(SU) High Channel



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	56.01	68.4	12.39	Peak	348.00	200	Horizontal	Pass
2	5992.250	57.51	68.2	10.69	Peak	349.00	200	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ25A0651-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25A0651-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25A0651-AI.PDF”.

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