

TEST REPORT

Applicant: E&S International Enterprises, Inc.
Address: 7801 Hayvenhurst Avenue, Van Nuys, California
91406 USA
Equipment Type: Laptop
Model Name: GWNN11554-TI (refer to section 2.3)
Brand Name: GATEWAY
FCC ID: 2AYPE-GWNN11554-TI
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: May 26, 2025
Test Date: May 31, 2025 - Jun. 14, 2025
Date of Issue: Jun. 30, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Yang Wenxuan**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 30, 2025</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
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	E&S International Enterprises, Inc.
Address	7801 Hayvenhurst Avenue, Van Nuys, California 91406, United States

2.2 Manufacturer Information

Manufacturer	Shenzhen Yuko Technology Co., Ltd.
Address	6th, A9 Bldg, Tianrui Industrial Park, Fuyuan 1st Rd, Fuyong, Boanan, Shenzhen

2.3 General Description for Equipment under Test (EUT)

EUT Name	Laptop
Model Name Under Test	GWNN11554-TI
Series Model Name	GWNN11554, N1572
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	IDN356_441B_V1.0
Software Version	23H2
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 and 802.11ac
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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	
Modulation technology	OFDM	
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK	
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-1: 48.98 mW U-NII-3: 82.22 mW	
Antenna System (eg., MIMO, Smart Antenna)	N/A	
Categorization as Correlated or Completely Uncorrelated	N/A	
Antenna Type	Main Antenna	FPC Antenna
	Aux. Antenna	
Antenna Gain	Main Antenna	U-NII-1: 5150 MHz to 5250 MHz: 1.87 dBi U-NII-3: 5725 MHz to 5850 MHz: 1.50 dBi
	Aux. Antenna	U-NII-1: 5150 MHz to 5250 MHz: -0.31 dBi U-NII-3: 5725 MHz to 5850 MHz: 1.83 dBi
About the Product	The equipment is Laptop, intended for used with information technology equipment.	

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

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

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

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

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

For 802.11n(HT40)/ac(VHT40)

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

For 802.11ac(VHT80)

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

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

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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v02r01	Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E
3	KDB Publication 662911 D01v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

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

Note¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note²: 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	47% to 62%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.1°C to +24.8°C
Working Voltage of the EUT	NV (Normal Voltage)	11.55 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2024.08.01	2025.07.31
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2024.05.22	2025.05.21
				2025.04.28	2026.04.27
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2027.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
				2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8 m	112	2025.02.14	2028.02.13

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 Measurement Uncertainty

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

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

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

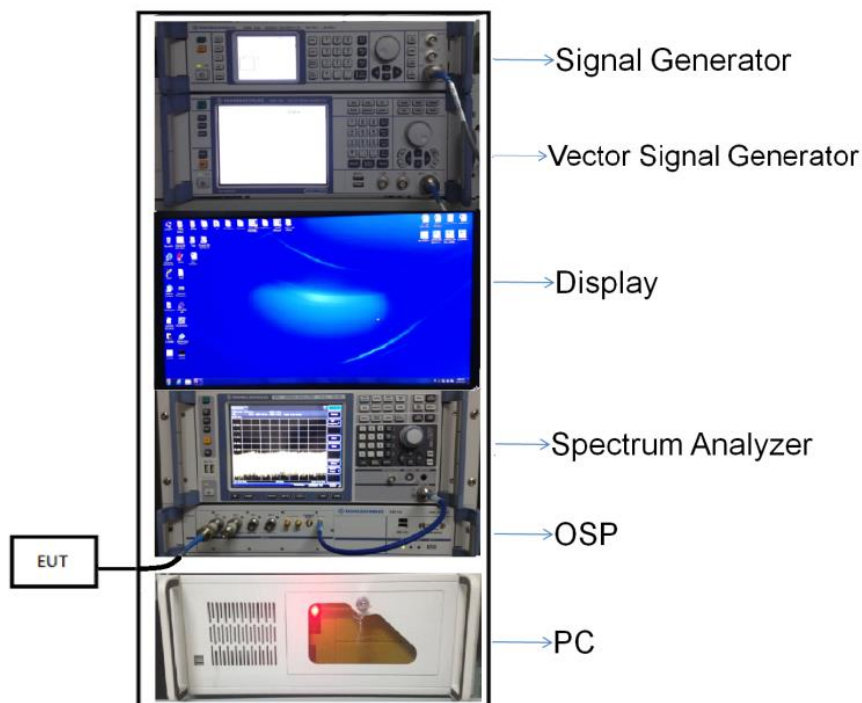
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

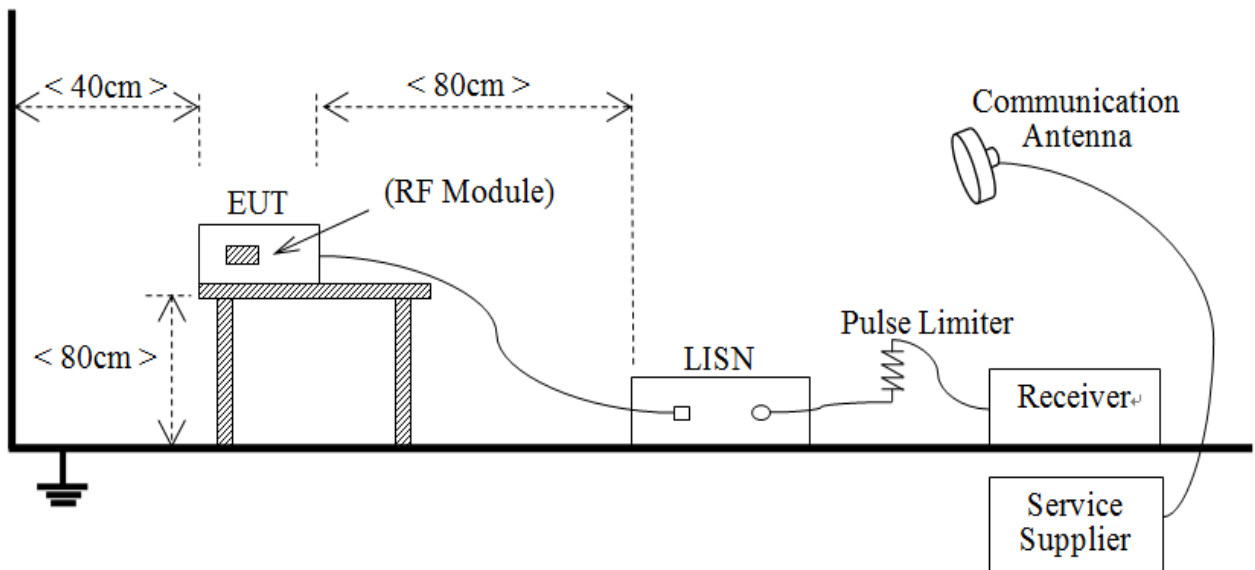
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



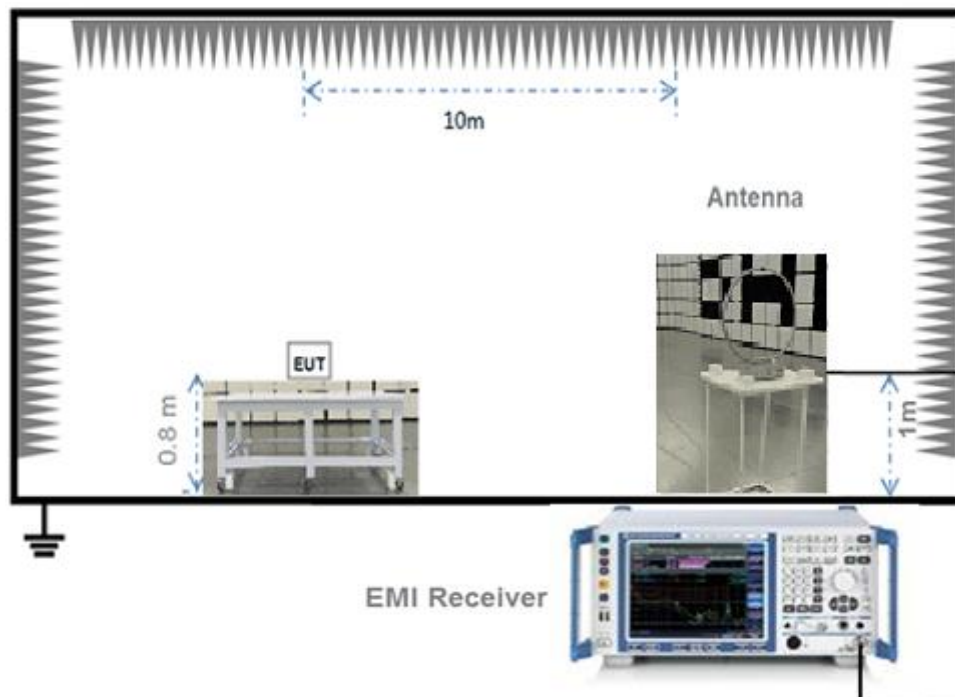
(Diagram 1)

4.5.2 For AC Power Supply Port Test



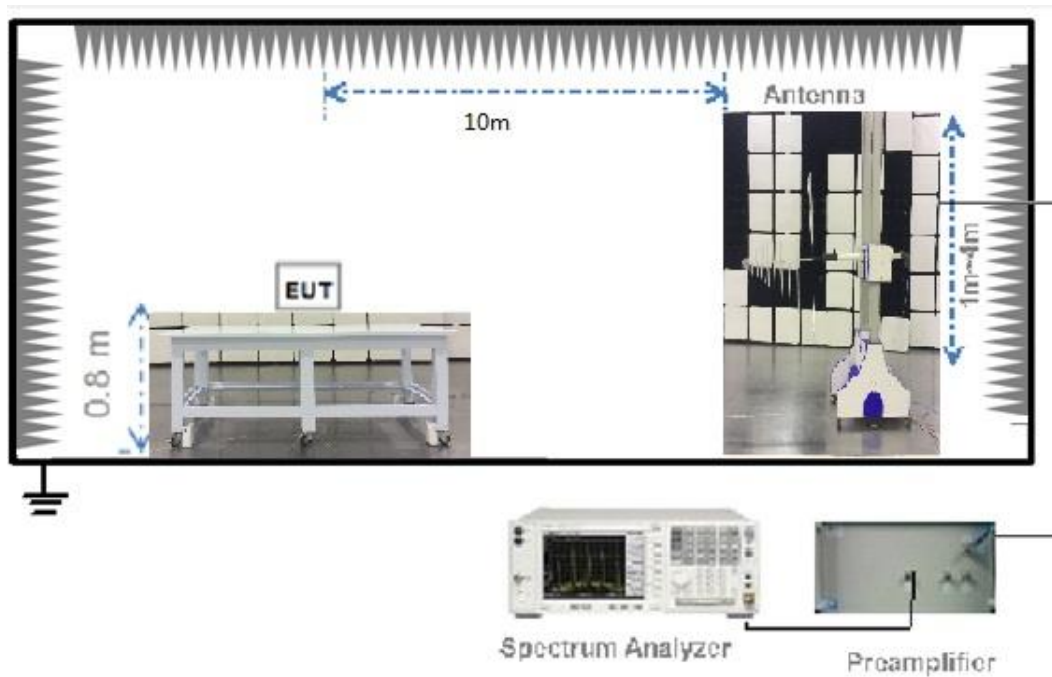
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



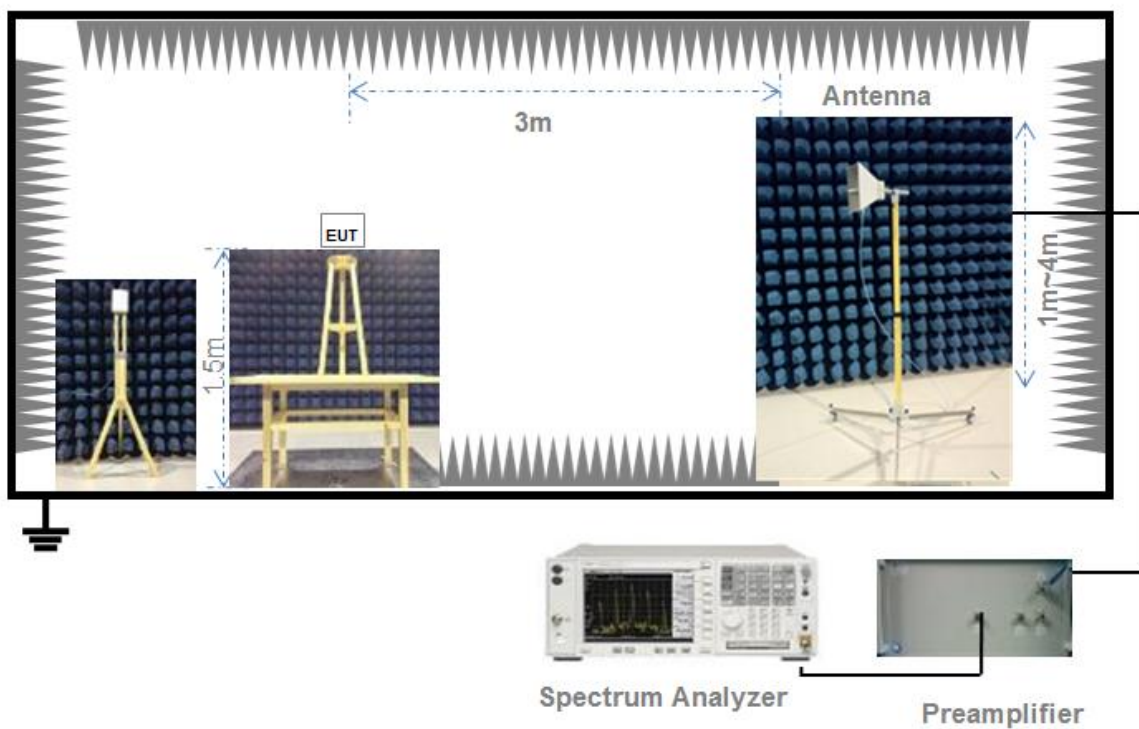
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

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

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

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

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

Measurements of duty cycle

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

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

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

Set VBW $\geq$ 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 C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ 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 C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

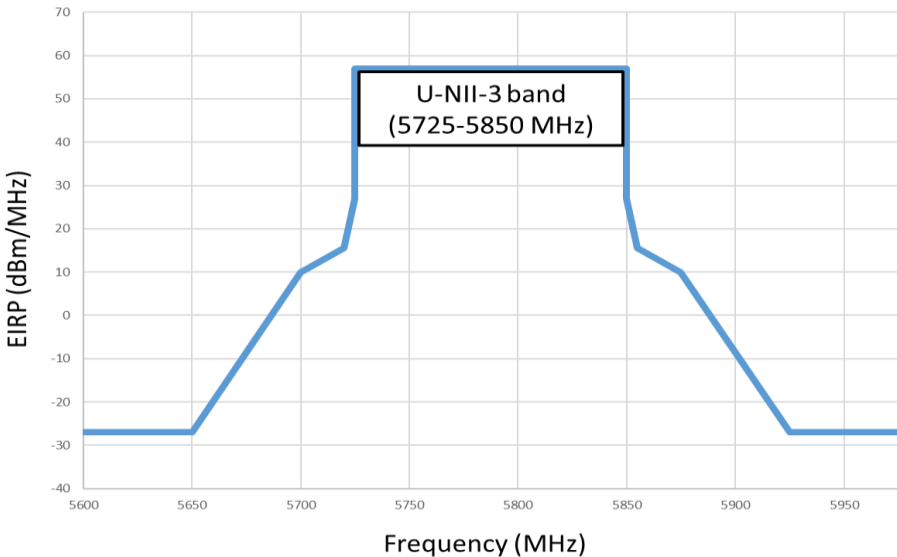
5.5.1 Limit

FCC §15.209 & 15.407(b)

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.36	2.36	57.40%	2.41
11n (HT20)/11ac (VHT20)	1.28	2.28	55.99%	2.52
11n (HT40)/11ac (VHT40)	0.64	1.64	38.73%	4.12
11ac (VHT80)	0.32	1.32	24.05%	6.19

Test DataConducted PowerMain Antenna

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	15.59	36.22	250	Pass
11a	CH44	15.66	36.81	250	Pass
11a	CH48	15.69	37.07	250	Pass
11n (HT20)	CH36	15.46	35.16	250	Pass
11n (HT20)	CH44	15.12	32.51	250	Pass
11n (HT20)	CH48	15.32	34.04	250	Pass
11n (HT40)	CH38	13.57	22.75	250	Pass
11n (HT40)	CH46	16.88	48.75	250	Pass
11ac (VHT20)	CH36	15.47	35.24	250	Pass
11ac (VHT20)	CH44	15.27	33.65	250	Pass
11ac (VHT20)	CH48	15.29	33.81	250	Pass
11ac (VHT40)	CH38	13.39	21.83	250	Pass
11ac (VHT40)	CH46	16.90	48.98	250	Pass
11ac (VHT80)	CH42	13.70	23.44	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.84	38.37	1000	Pass
11a	CH157	15.60	36.31	1000	Pass
11a	CH165	15.77	37.76	1000	Pass
11n (HT20)	CH149	15.30	33.88	1000	Pass
11n (HT20)	CH157	15.50	35.48	1000	Pass
11n (HT20)	CH165	15.32	34.04	1000	Pass
11n (HT40)	CH151	16.78	47.64	1000	Pass
11n (HT40)	CH159	17.07	50.93	1000	Pass
11ac (VHT20)	CH149	15.22	33.27	1000	Pass
11ac (VHT20)	CH157	15.45	35.08	1000	Pass
11ac (VHT20)	CH165	15.23	33.34	1000	Pass
11ac (VHT40)	CH151	16.75	47.32	1000	Pass
11ac (VHT40)	CH159	17.11	51.40	1000	Pass
11ac (VHT80)	CH155	19.15	82.22	1000	Pass

Aux. Antenna

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	15.80	38.02	250	Pass
11a	CH44	15.80	38.02	250	Pass
11a	CH48	15.83	38.28	250	Pass
11n (HT20)	CH36	15.48	35.32	250	Pass
11n (HT20)	CH44	15.22	33.27	250	Pass
11n (HT20)	CH48	15.26	33.57	250	Pass
11n (HT40)	CH38	12.69	18.58	250	Pass
11n (HT40)	CH46	16.76	47.42	250	Pass
11ac (VHT20)	CH36	15.33	34.12	250	Pass
11ac (VHT20)	CH44	15.48	35.32	250	Pass
11ac (VHT20)	CH48	15.16	32.81	250	Pass
11ac (VHT40)	CH38	12.64	18.37	250	Pass
11ac (VHT40)	CH46	16.79	47.75	250	Pass
11ac (VHT80)	CH42	12.77	18.92	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	15.57	36.06	1000	Pass
11a	CH157	15.84	38.37	1000	Pass
11a	CH165	15.67	36.90	1000	Pass
11n (HT20)	CH149	15.44	34.99	1000	Pass
11n (HT20)	CH157	15.33	34.12	1000	Pass
11n (HT20)	CH165	15.09	32.28	1000	Pass
11n (HT40)	CH151	16.92	49.20	1000	Pass
11n (HT40)	CH159	16.80	47.86	1000	Pass
11ac (VHT20)	CH149	15.45	35.08	1000	Pass
11ac (VHT20)	CH157	15.31	33.96	1000	Pass
11ac (VHT20)	CH165	15.15	32.73	1000	Pass
11ac (VHT40)	CH151	16.97	49.77	1000	Pass
11ac (VHT40)	CH159	16.85	48.42	1000	Pass
11ac (VHT80)	CH155	18.99	79.25	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2551081-604 Data Part 1.pdf”.

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

Aux. Antenna

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	20.89	16.63
11a	CH44	20.89	16.63
11a	CH48	20.85	16.63
11n (HT20)	CH36	21.21	17.69
11n (HT20)	CH44	21.16	17.71
11n (HT20)	CH48	21.39	17.69
11n (HT40)	CH38	55.90	36.58
11n (HT40)	CH46	56.00	36.53
11ac (VHT20)	CH36	21.28	17.70
11ac (VHT20)	CH44	21.25	17.72
11ac (VHT20)	CH48	21.53	17.71
11ac (VHT40)	CH38	46.18	36.50
11ac (VHT40)	CH46	43.64	36.49
11ac (VHT80)	CH42	120.30	76.24

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	21.17	16.64
11a	CH157	21.46	16.67
11a	CH165	28.71	16.80
11n (HT20)	CH149	21.03	17.71
11n (HT20)	CH157	23.55	17.74
11n (HT20)	CH165	23.64	17.81
11n (HT40)	CH151	64.23	36.71
11n (HT40)	CH159	68.25	36.85
11ac (VHT20)	CH149	21.22	17.75
11ac (VHT20)	CH157	21.67	17.77
11ac (VHT20)	CH165	21.99	17.81
11ac (VHT40)	CH151	64.25	36.69
11ac (VHT40)	CH159	69.07	36.81
11ac (VHT80)	CH155	153.90	78.03

A.3 6 dB Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2551081-604 Data Part 2.pdf”.

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

Aux. Antenna

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.45	500.00	Pass
11a	CH157	16.40	500.00	Pass
11a	CH165	16.40	500.00	Pass
11n (HT20)	CH149	17.00	500.00	Pass
11n (HT20)	CH157	17.20	500.00	Pass
11n (HT20)	CH165	17.20	500.00	Pass
11n (HT40)	CH151	35.80	500.00	Pass
11n (HT40)	CH159	35.90	500.00	Pass
11ac (VHT20)	CH149	17.15	500.00	Pass
11ac (VHT20)	CH157	17.40	500.00	Pass
11ac (VHT20)	CH165	17.20	500.00	Pass
11ac (VHT40)	CH151	35.40	500.00	Pass
11ac (VHT40)	CH159	35.70	500.00	Pass
11ac (VHT80)	CH155	75.25	500.00	Pass

A.4 Power Spectral Density

Note: Test plots please refer to the document "Annex No.: BL-SZ2551081-604 Data Part 3.pdf".

Test Data

Main Antenna

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	1.59	11.00	Pass
11a	CH44	1.87	11.00	Pass
11a	CH48	1.95	11.00	Pass
11n (HT20)	CH36	1.51	11.00	Pass
11n (HT20)	CH44	1.25	11.00	Pass
11n (HT20)	CH48	1.12	11.00	Pass
11n (HT40)	CH38	-5.01	11.00	Pass
11n (HT40)	CH46	-1.99	11.00	Pass
11ac (VHT20)	CH36	1.39	11.00	Pass
11ac (VHT20)	CH44	1.21	11.00	Pass
11ac (VHT20)	CH48	1.03	11.00	Pass
11ac (VHT40)	CH38	-5.19	11.00	Pass
11ac (VHT40)	CH46	-1.78	11.00	Pass
11ac (VHT80)	CH42	-8.82	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-0.61	30.00	Pass
11a	CH157	-1.26	30.00	Pass
11a	CH165	-0.37	30.00	Pass
11n (HT20)	CH149	-1.55	30.00	Pass
11n (HT20)	CH157	-1.17	30.00	Pass
11n (HT20)	CH165	-1.59	30.00	Pass
11n (HT40)	CH151	-4.64	30.00	Pass
11n (HT40)	CH159	-4.24	30.00	Pass
11ac (VHT20)	CH149	-1.83	30.00	Pass
11ac (VHT20)	CH157	-1.49	30.00	Pass
11ac (VHT20)	CH165	-1.62	30.00	Pass
11ac (VHT40)	CH151	-4.67	30.00	Pass
11ac (VHT40)	CH159	-4.15	30.00	Pass
11ac (VHT80)	CH155	-5.30	30.00	Pass

Aux. Antenna

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	1.77	11.00	Pass
11a	CH44	2.28	11.00	Pass
11a	CH48	2.20	11.00	Pass
11n (HT20)	CH36	1.36	11.00	Pass
11n (HT20)	CH44	0.93	11.00	Pass
11n (HT20)	CH48	1.13	11.00	Pass
11n (HT40)	CH38	-6.23	11.00	Pass
11n (HT40)	CH46	-2.16	11.00	Pass
11ac (VHT20)	CH36	1.30	11.00	Pass
11ac (VHT20)	CH44	1.47	11.00	Pass
11ac (VHT20)	CH48	1.07	11.00	Pass
11ac (VHT40)	CH38	-6.11	11.00	Pass
11ac (VHT40)	CH46	-1.88	11.00	Pass
11ac (VHT80)	CH42	-9.92	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-0.74	30.00	Pass
11a	CH157	-0.51	30.00	Pass
11a	CH165	-0.84	30.00	Pass
11n (HT20)	CH149	-1.37	30.00	Pass
11n (HT20)	CH157	-1.43	30.00	Pass
11n (HT20)	CH165	-1.56	30.00	Pass
11n (HT40)	CH151	-4.80	30.00	Pass
11n (HT40)	CH159	-4.49	30.00	Pass
11ac (VHT20)	CH149	-1.66	30.00	Pass
11ac (VHT20)	CH157	-1.69	30.00	Pass
11ac (VHT20)	CH165	-1.64	30.00	Pass
11ac (VHT40)	CH151	-4.44	30.00	Pass
11ac (VHT40)	CH159	-4.39	30.00	Pass
11ac (VHT80)	CH155	-6.06	30.00	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.

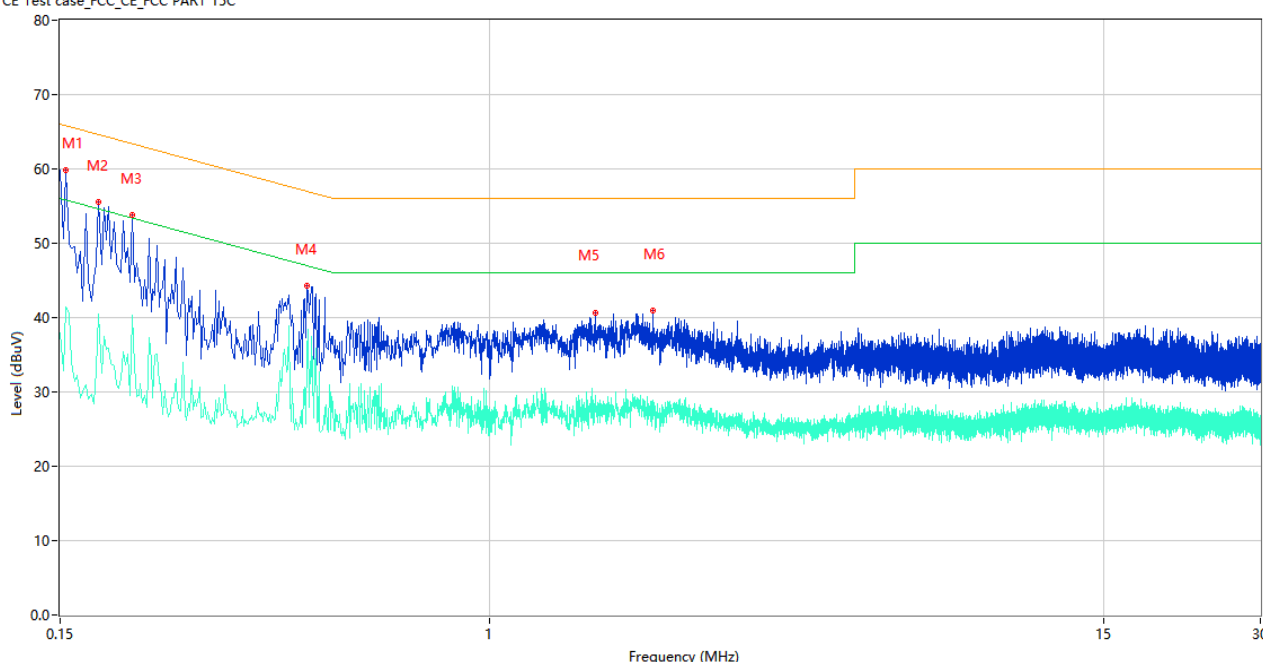
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

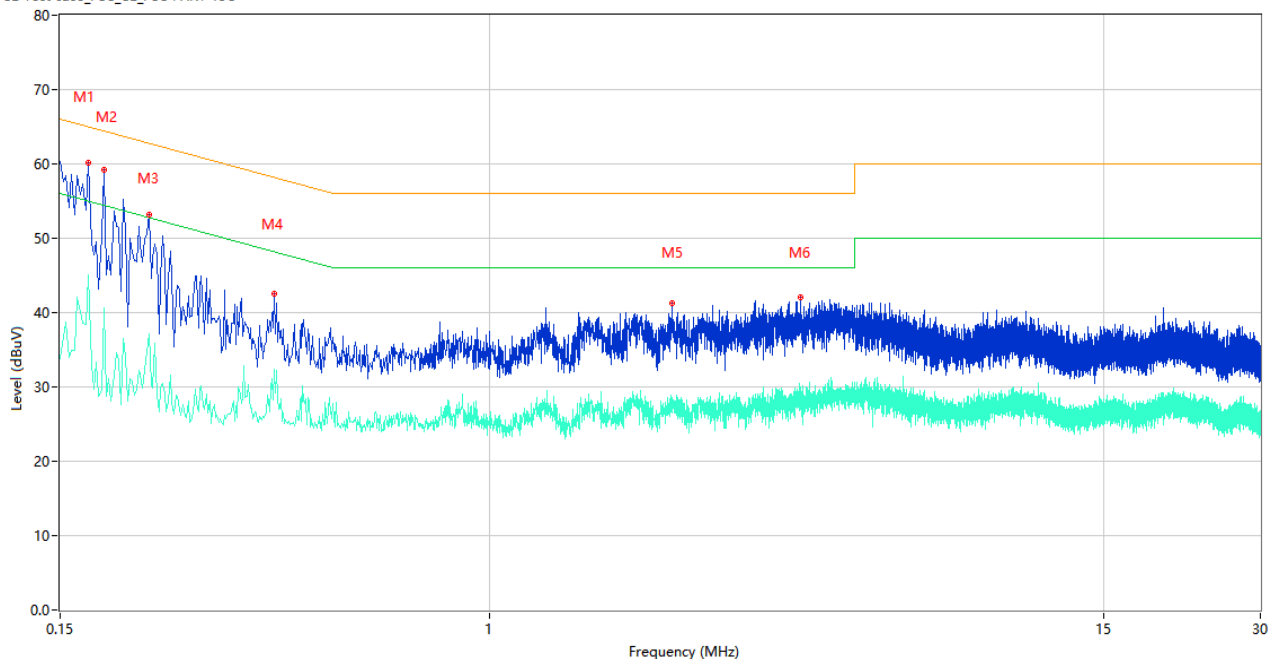
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.154	59.85	9.86	65.78	5.93	Peak	L	Pass
1**	0.154	41.45	9.86	55.78	14.33	AV	L	Pass
2	0.178	55.52	9.85	64.58	9.06	Peak	L	Pass
2**	0.178	40.43	9.85	54.58	14.15	AV	L	Pass
3	0.206	53.79	9.84	63.37	9.58	Peak	L	Pass
3**	0.206	40.40	9.84	53.37	12.97	AV	L	Pass
4	0.446	44.27	10.13	56.95	12.68	Peak	L	Pass
4**	0.446	35.26	10.13	46.95	11.69	AV	L	Pass
5	1.590	40.62	9.97	56.00	15.38	Peak	L	Pass
5**	1.590	29.55	9.97	46.00	16.45	AV	L	Pass
6	2.054	40.96	10.47	56.00	15.04	Peak	L	Pass
6**	2.054	28.84	10.47	46.00	17.16	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.170	60.08	9.85	64.96	4.88	Peak	N	Pass
1**	0.170	45.13	9.85	54.96	9.83	AV	N	Pass
2	0.182	59.18	9.84	64.39	5.21	Peak	N	Pass
2**	0.182	40.68	9.84	54.39	13.71	AV	N	Pass
3	0.222	53.14	9.84	62.74	9.60	Peak	N	Pass
3**	0.222	37.19	9.84	52.74	15.55	AV	N	Pass
4	0.386	42.56	10.67	58.15	15.59	Peak	N	Pass
4**	0.386	32.40	10.67	48.15	15.75	AV	N	Pass
5	2.240	41.20	10.13	56.00	14.80	Peak	N	Pass
5**	2.240	28.33	10.13	46.00	17.67	AV	N	Pass
6	3.948	42.02	10.13	56.00	13.98	Peak	N	Pass
6**	3.948	28.82	10.13	46.00	17.18	AV	N	Pass

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

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

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

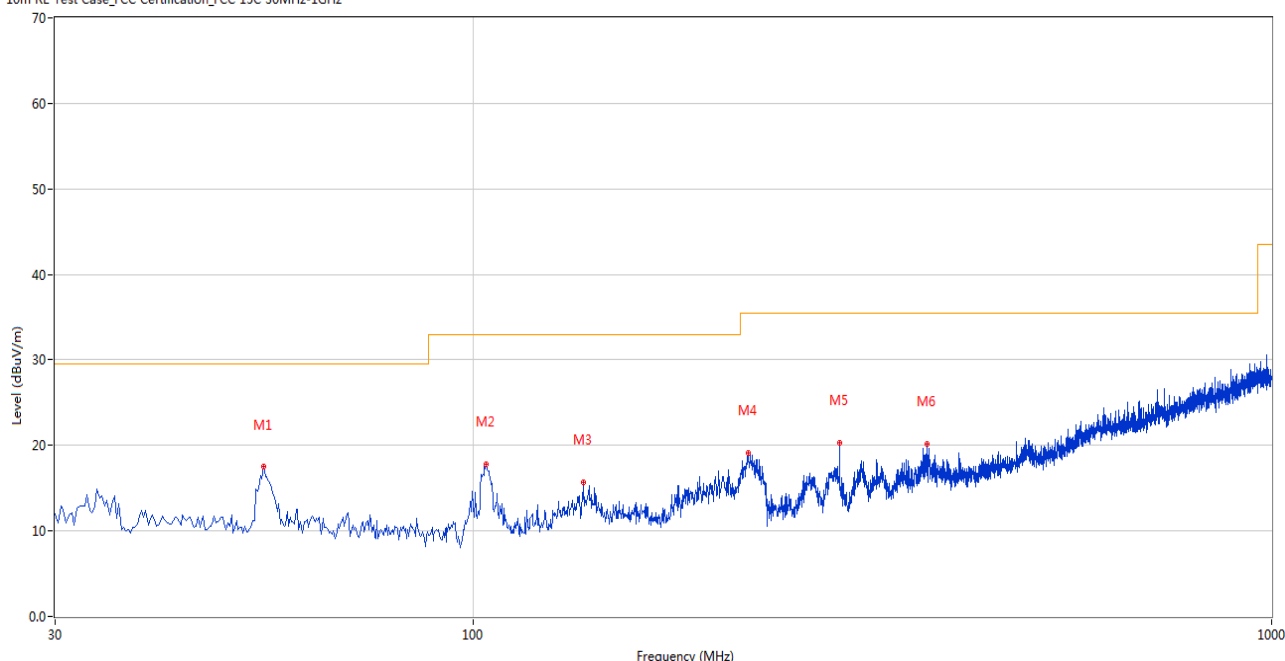
Note ³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

Test Data and Plots

30 MHz to 1 GHz, ANT H

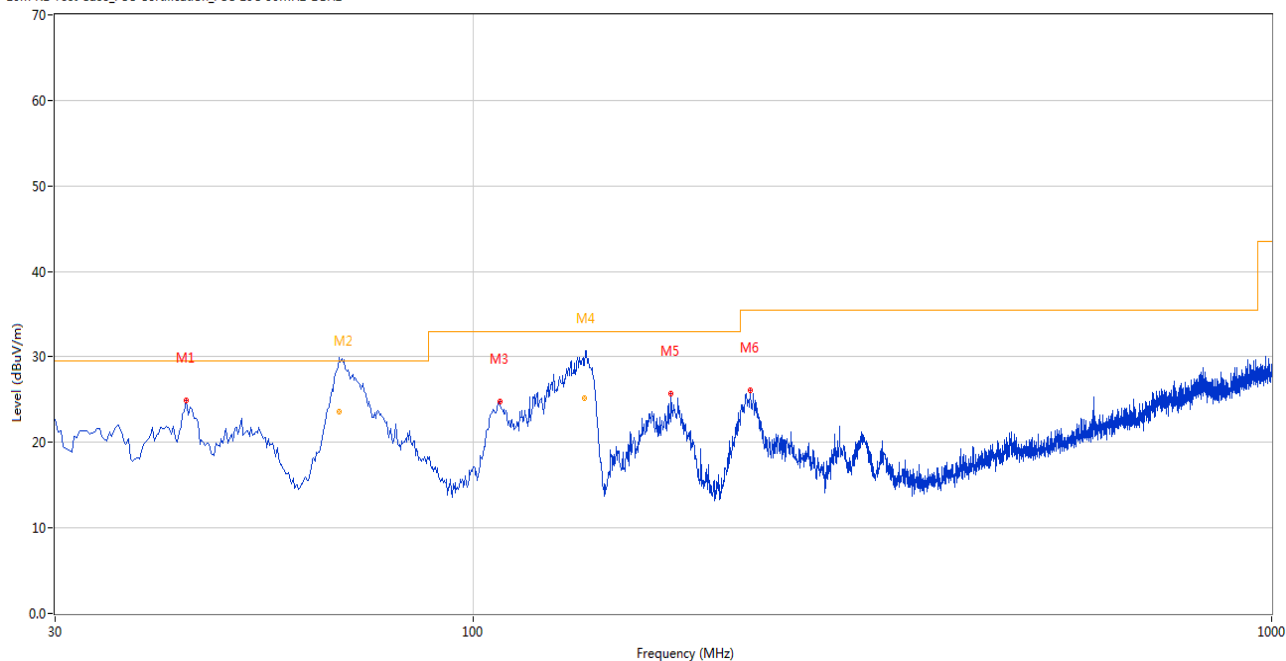
10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.729	17.47	-27.13	29.5	12.03	Peak	221.00	100	Horizontal	Pass
2	103.944	17.76	-29.61	33.0	15.24	Peak	0.00	200	Horizontal	Pass
3	137.401	15.75	-26.91	33.0	17.25	Peak	237.00	100	Horizontal	Pass
4	221.042	19.14	-29.26	35.5	16.36	Peak	226.00	200	Horizontal	Pass
5	287.956	20.36	-25.91	35.5	15.14	Peak	0.00	200	Horizontal	Pass
6	370.627	20.13	-23.51	35.5	15.37	Peak	232.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

10m RE Test Case_FCC Certification_FCC 15C 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	43.819	24.89	-26.86	29.5	4.61	Peak	107.00	100	Vertical	Pass
2	67.942	27.14	-28.79	29.5	2.36	Peak	296.00	142	Vertical	N/A
2*	67.942	23.56	-28.79	29.5	5.94	QP	296.00	142	Vertical	Pass
3	108.065	24.79	-29.15	33.0	8.21	Peak	274.00	100	Vertical	Pass
4	137.978	28.13	-26.88	33.0	4.87	Peak	280.00	141	Vertical	N/A
4*	137.978	25.18	-26.88	33.0	7.82	QP	280.00	141	Vertical	Pass
5	177.161	25.69	-27.62	33.0	7.31	Peak	253.00	100	Vertical	Pass
6	222.254	26.13	-29.12	35.5	9.37	Peak	242.00	100	Vertical	Pass

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

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

Aux. Antenna

Test Data

11a, 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	1514.470	41.42	74.0	32.58	Peak	94.00	300	Horizontal	Pass
1**	1514.470	31.20	54.0	22.80	AV	94.00	300	Horizontal	Pass
2	2350.773	42.74	74.0	31.26	Peak	83.00	200	Horizontal	Pass
2**	2350.773	37.34	54.0	16.66	AV	83.00	200	Horizontal	Pass
3	4203.869	46.25	74.0	27.75	Peak	155.00	200	Horizontal	Pass
3**	4203.869	38.44	54.0	15.56	AV	155.00	200	Horizontal	Pass
4	7432.034	54.09	74.0	19.91	Peak	291.00	400	Horizontal	Pass
4**	7432.034	43.54	54.0	10.46	AV	291.00	400	Horizontal	Pass
5	12519.693	57.41	74.0	16.59	Peak	329.00	200	Horizontal	Pass
5**	12519.693	44.70	54.0	9.30	AV	329.00	200	Horizontal	Pass
6	16144.637	57.37	74.0	16.63	Peak	248.00	300	Horizontal	Pass
6**	16144.637	45.53	54.0	8.47	AV	248.00	300	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	1569.944	36.05	74.0	37.95	Peak	228.00	300	Vertical	Pass
1**	1569.944	23.95	54.0	30.05	AV	228.00	300	Vertical	Pass
2	2348.892	46.38	74.0	27.62	Peak	32.00	100	Vertical	Pass
2**	2348.892	36.33	54.0	17.67	AV	32.00	100	Vertical	Pass
3	3913.454	43.35	74.0	30.65	Peak	93.00	200	Vertical	Pass
3**	3913.454	37.44	54.0	16.56	AV	93.00	200	Vertical	Pass
4	7676.582	54.48	74.0	19.52	Peak	325.00	300	Vertical	Pass
4**	7676.582	42.06	54.0	11.94	AV	325.00	300	Vertical	Pass
5	12527.661	55.48	74.0	18.52	Peak	315.00	300	Vertical	Pass
5**	12527.661	42.42	54.0	11.58	AV	315.00	300	Vertical	Pass
6	15382.565	54.48	74.0	19.52	Peak	300.00	100	Vertical	Pass
6**	15382.565	42.02	54.0	11.98	AV	300.00	100	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	1514.792	42.23	74.0	31.77	Peak	8.00	200	Horizontal	Pass
1**	1514.792	27.81	54.0	26.19	AV	8.00	200	Horizontal	Pass
2	2344.947	44.58	74.0	29.42	Peak	97.00	400	Horizontal	Pass
2**	2344.947	39.22	54.0	14.78	AV	97.00	400	Horizontal	Pass
3	4204.671	45.95	74.0	28.05	Peak	272.00	200	Horizontal	Pass
3**	4204.671	40.62	54.0	13.38	AV	272.00	200	Horizontal	Pass
4	7432.588	56.00	74.0	18.00	Peak	89.00	100	Horizontal	Pass
4**	7432.588	42.47	54.0	11.53	AV	89.00	100	Horizontal	Pass
5	12520.428	53.61	74.0	20.39	Peak	293.00	100	Horizontal	Pass
5**	12520.428	44.82	54.0	9.18	AV	293.00	100	Horizontal	Pass
6	16151.268	57.12	74.0	16.88	Peak	194.00	400	Horizontal	Pass
6**	16151.268	46.28	54.0	7.72	AV	194.00	400	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	1568.227	34.26	74.0	39.74	Peak	297.00	300	Vertical	Pass
1**	1568.227	23.91	54.0	30.09	AV	297.00	300	Vertical	Pass
2	2348.887	47.74	74.0	26.26	Peak	176.00	400	Vertical	Pass
2**	2348.887	33.00	54.0	21.00	AV	176.00	400	Vertical	Pass
3	3919.282	41.89	74.0	32.11	Peak	313.00	200	Vertical	Pass
3**	3919.282	38.68	54.0	15.32	AV	313.00	200	Vertical	Pass
4	7680.181	51.71	74.0	22.29	Peak	69.00	400	Vertical	Pass
4**	7680.181	44.30	54.0	9.70	AV	69.00	400	Vertical	Pass
5	12527.068	58.04	74.0	15.96	Peak	109.00	300	Vertical	Pass
5**	12527.068	43.85	54.0	10.15	AV	109.00	300	Vertical	Pass
6	15384.066	56.16	74.0	17.84	Peak	245.00	400	Vertical	Pass
6**	15384.066	46.37	54.0	7.63	AV	245.00	400	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	1514.606	39.15	74.0	34.85	Peak	17.00	300	Horizontal	Pass
1**	1514.606	27.66	54.0	26.34	AV	17.00	300	Horizontal	Pass
2	2348.757	42.10	74.0	31.90	Peak	252.00	200	Horizontal	Pass
2**	2348.757	35.28	54.0	18.72	AV	252.00	200	Horizontal	Pass
3	4208.568	44.84	74.0	29.16	Peak	192.00	200	Horizontal	Pass
3**	4208.568	35.29	54.0	18.71	AV	192.00	200	Horizontal	Pass
4	7437.908	52.44	74.0	21.56	Peak	97.00	300	Horizontal	Pass
4**	7437.908	43.24	54.0	10.76	AV	97.00	300	Horizontal	Pass
5	12521.031	56.09	74.0	17.91	Peak	248.00	400	Horizontal	Pass
5**	12521.031	45.75	54.0	8.25	AV	248.00	400	Horizontal	Pass
6	16146.283	55.96	74.0	18.04	Peak	216.00	300	Horizontal	Pass
6**	16146.283	45.69	54.0	8.31	AV	216.00	300	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	1569.339	33.67	74.0	40.33	Peak	74.00	400	Vertical	Pass
1**	1569.339	25.15	54.0	28.85	AV	74.00	400	Vertical	Pass
2	2347.682	46.11	74.0	27.89	Peak	114.00	200	Vertical	Pass
2**	2347.682	31.72	54.0	22.28	AV	114.00	200	Vertical	Pass
3	3920.810	42.92	74.0	31.08	Peak	128.00	200	Vertical	Pass
3**	3920.810	35.56	54.0	18.44	AV	128.00	200	Vertical	Pass
4	7681.316	50.19	74.0	23.81	Peak	207.00	300	Vertical	Pass
4**	7681.316	46.49	54.0	7.51	AV	207.00	300	Vertical	Pass
5	12532.235	53.16	74.0	20.84	Peak	348.00	300	Vertical	Pass
5**	12532.235	44.84	54.0	9.16	AV	348.00	300	Vertical	Pass
6	15383.857	54.31	74.0	19.69	Peak	23.00	300	Vertical	Pass
6**	15383.857	43.67	54.0	10.33	AV	23.00	300	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	1510.983	40.94	74.0	33.06	Peak	247.00	300	Horizontal	Pass
1**	1510.983	31.75	54.0	22.25	AV	247.00	300	Horizontal	Pass
2	2346.161	43.72	74.0	30.28	Peak	173.00	100	Horizontal	Pass
2**	2346.161	37.59	54.0	16.41	AV	173.00	100	Horizontal	Pass
3	4205.042	47.26	74.0	26.74	Peak	187.00	200	Horizontal	Pass
3**	4205.042	35.97	54.0	18.03	AV	187.00	200	Horizontal	Pass
4	7430.892	53.04	74.0	20.96	Peak	81.00	400	Horizontal	Pass
4**	7430.892	41.77	54.0	12.23	AV	81.00	400	Horizontal	Pass
5	12517.139	55.79	74.0	18.21	Peak	353.00	200	Horizontal	Pass
5**	12517.139	48.32	54.0	5.68	AV	353.00	200	Horizontal	Pass
6	16151.068	51.54	74.0	22.46	Peak	336.00	100	Horizontal	Pass
6**	16151.068	41.00	54.0	13.00	AV	336.00	100	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	1567.027	34.02	74.0	39.98	Peak	294.00	100	Vertical	Pass
1**	1567.027	26.38	54.0	27.62	AV	294.00	100	Vertical	Pass
2	2343.572	43.72	74.0	30.28	Peak	304.00	400	Vertical	Pass
2**	2343.572	36.08	54.0	17.92	AV	304.00	400	Vertical	Pass
3	3916.012	42.88	74.0	31.12	Peak	300.00	200	Vertical	Pass
3**	3916.012	38.41	54.0	15.59	AV	300.00	200	Vertical	Pass
4	7683.275	49.99	74.0	24.01	Peak	206.00	100	Vertical	Pass
4**	7683.275	44.60	54.0	9.40	AV	206.00	100	Vertical	Pass
5	12527.377	54.62	74.0	19.38	Peak	14.00	300	Vertical	Pass
5**	12527.377	44.85	54.0	9.15	AV	14.00	300	Vertical	Pass
6	15381.006	50.93	74.0	23.07	Peak	178.00	100	Vertical	Pass
6**	15381.006	44.99	54.0	9.01	AV	178.00	100	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	1508.151	40.56	74.0	33.44	Peak	256.00	300	Horizontal	Pass
1**	1508.151	30.60	54.0	23.40	AV	256.00	300	Horizontal	Pass
2	2351.353	43.49	74.0	30.51	Peak	151.00	200	Horizontal	Pass
2**	2351.353	37.40	54.0	16.60	AV	151.00	200	Horizontal	Pass
3	4208.221	44.92	74.0	29.08	Peak	339.00	200	Horizontal	Pass
3**	4208.221	37.72	54.0	16.28	AV	339.00	200	Horizontal	Pass
4	7435.376	56.86	74.0	17.14	Peak	232.00	400	Horizontal	Pass
4**	7435.376	39.89	54.0	14.11	AV	232.00	400	Horizontal	Pass
5	12518.862	55.30	74.0	18.70	Peak	61.00	400	Horizontal	Pass
5**	12518.862	44.36	54.0	9.64	AV	61.00	400	Horizontal	Pass
6	16145.091	56.76	74.0	17.24	Peak	80.00	100	Horizontal	Pass
6**	16145.091	43.47	54.0	10.53	AV	80.00	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	1567.173	36.88	74.0	37.12	Peak	79.00	200	Vertical	Pass
1**	1567.173	26.82	54.0	27.18	AV	79.00	200	Vertical	Pass
2	2348.578	42.93	74.0	31.07	Peak	50.00	200	Vertical	Pass
2**	2348.578	32.22	54.0	21.78	AV	50.00	200	Vertical	Pass
3	3917.287	45.73	74.0	28.27	Peak	40.00	200	Vertical	Pass
3**	3917.287	36.91	54.0	17.09	AV	40.00	200	Vertical	Pass
4	7684.164	52.23	74.0	21.77	Peak	328.00	100	Vertical	Pass
4**	7684.164	44.73	54.0	9.27	AV	328.00	100	Vertical	Pass
5	12533.631	56.86	74.0	17.14	Peak	83.00	300	Vertical	Pass
5**	12533.631	44.10	54.0	9.90	AV	83.00	300	Vertical	Pass
6	15381.856	51.22	74.0	22.78	Peak	86.00	200	Vertical	Pass
6**	15381.856	44.17	54.0	9.83	AV	86.00	200	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	1515.571	42.62	74.0	31.38	Peak	230.00	100	Horizontal	Pass
1**	1515.571	32.20	54.0	21.80	AV	230.00	100	Horizontal	Pass
2	2349.155	46.78	74.0	27.22	Peak	161.00	300	Horizontal	Pass
2**	2349.155	36.12	54.0	17.88	AV	161.00	300	Horizontal	Pass
3	4209.183	47.65	74.0	26.35	Peak	272.00	200	Horizontal	Pass
3**	4209.183	35.53	54.0	18.47	AV	272.00	200	Horizontal	Pass
4	7432.746	52.23	74.0	21.77	Peak	246.00	200	Horizontal	Pass
4**	7432.746	44.40	54.0	9.60	AV	246.00	200	Horizontal	Pass
5	12514.777	58.25	74.0	15.75	Peak	317.00	200	Horizontal	Pass
5**	12514.777	47.32	54.0	6.68	AV	317.00	200	Horizontal	Pass
6	16149.437	56.74	74.0	17.26	Peak	105.00	400	Horizontal	Pass
6**	16149.437	42.14	54.0	11.86	AV	105.00	400	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	1568.765	37.62	74.0	36.38	Peak	119.00	200	Vertical	Pass
1**	1568.765	23.92	54.0	30.08	AV	119.00	200	Vertical	Pass
2	2345.651	47.79	74.0	26.21	Peak	119.00	400	Vertical	Pass
2**	2345.651	31.55	54.0	22.45	AV	119.00	400	Vertical	Pass
3	3918.177	45.85	74.0	28.15	Peak	63.00	200	Vertical	Pass
3**	3918.177	34.51	54.0	19.49	AV	63.00	200	Vertical	Pass
4	7678.787	53.52	74.0	20.48	Peak	252.00	400	Vertical	Pass
4**	7678.787	44.84	54.0	9.16	AV	252.00	400	Vertical	Pass
5	12530.420	52.91	74.0	21.09	Peak	256.00	300	Vertical	Pass
5**	12530.420	42.99	54.0	11.01	AV	256.00	300	Vertical	Pass
6	15380.491	50.84	74.0	23.16	Peak	297.00	400	Vertical	Pass
6**	15380.491	41.59	54.0	12.41	AV	297.00	400	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	1508.321	39.40	74.0	34.60	Peak	360.00	300	Horizontal	Pass
1**	1508.321	28.29	54.0	25.71	AV	360.00	300	Horizontal	Pass
2	2344.780	42.09	74.0	31.91	Peak	337.00	300	Horizontal	Pass
2**	2344.780	36.67	54.0	17.33	AV	337.00	300	Horizontal	Pass
3	4205.927	46.81	74.0	27.19	Peak	132.00	200	Horizontal	Pass
3**	4205.927	35.64	54.0	18.36	AV	132.00	200	Horizontal	Pass
4	7435.851	52.75	74.0	21.25	Peak	145.00	200	Horizontal	Pass
4**	7435.851	44.89	54.0	9.11	AV	145.00	200	Horizontal	Pass
5	12515.268	54.24	74.0	19.76	Peak	150.00	200	Horizontal	Pass
5**	12515.268	49.43	54.0	4.57	AV	150.00	200	Horizontal	Pass
6	16147.122	54.71	74.0	19.29	Peak	229.00	100	Horizontal	Pass
6**	16147.122	41.53	54.0	12.47	AV	229.00	100	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	1573.796	34.43	74.0	39.57	Peak	41.00	200	Vertical	Pass
1**	1573.796	27.17	54.0	26.83	AV	41.00	200	Vertical	Pass
2	2343.444	43.14	74.0	30.86	Peak	8.00	100	Vertical	Pass
2**	2343.444	31.32	54.0	22.68	AV	8.00	100	Vertical	Pass
3	3916.521	45.74	74.0	28.26	Peak	174.00	200	Vertical	Pass
3**	3916.521	36.51	54.0	17.49	AV	174.00	200	Vertical	Pass
4	7679.666	49.31	74.0	24.69	Peak	224.00	100	Vertical	Pass
4**	7679.666	41.78	54.0	12.22	AV	224.00	100	Vertical	Pass
5	12529.267	56.05	74.0	17.95	Peak	92.00	100	Vertical	Pass
5**	12529.267	44.54	54.0	9.46	AV	92.00	100	Vertical	Pass
6	15381.734	53.54	74.0	20.46	Peak	355.00	300	Vertical	Pass
6**	15381.734	45.41	54.0	8.59	AV	355.00	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	1510.397	40.73	74.0	33.27	Peak	273.00	200	Horizontal	Pass
1**	1510.397	28.01	54.0	25.99	AV	273.00	200	Horizontal	Pass
2	2350.230	44.19	74.0	29.81	Peak	0.00	100	Horizontal	Pass
2**	2350.230	37.39	54.0	16.61	AV	0.00	100	Horizontal	Pass
3	4203.831	48.00	74.0	26.00	Peak	161.00	200	Horizontal	Pass
3**	4203.831	37.09	54.0	16.91	AV	161.00	200	Horizontal	Pass
4	7431.592	55.99	74.0	18.01	Peak	197.00	200	Horizontal	Pass
4**	7431.592	41.91	54.0	12.09	AV	197.00	200	Horizontal	Pass
5	12519.201	54.80	74.0	19.20	Peak	219.00	200	Horizontal	Pass
5**	12519.201	44.28	54.0	9.72	AV	219.00	200	Horizontal	Pass
6	16146.429	51.71	74.0	22.29	Peak	22.00	400	Horizontal	Pass
6**	16146.429	43.91	54.0	10.09	AV	22.00	400	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	1567.272	33.86	74.0	40.14	Peak	254.00	200	Vertical	Pass
1**	1567.272	28.62	54.0	25.38	AV	254.00	200	Vertical	Pass
2	2350.240	43.89	74.0	30.11	Peak	205.00	300	Vertical	Pass
2**	2350.240	36.16	54.0	17.84	AV	205.00	300	Vertical	Pass
3	3918.826	42.62	74.0	31.38	Peak	326.00	200	Vertical	Pass
3**	3918.826	34.06	54.0	19.94	AV	326.00	200	Vertical	Pass
4	7677.448	52.04	74.0	21.96	Peak	262.00	100	Vertical	Pass
4**	7677.448	41.06	54.0	12.94	AV	262.00	100	Vertical	Pass
5	12530.826	56.74	74.0	17.26	Peak	325.00	400	Vertical	Pass
5**	12530.826	41.77	54.0	12.23	AV	325.00	400	Vertical	Pass
6	15380.493	52.79	74.0	21.21	Peak	219.00	400	Vertical	Pass
6**	15380.493	45.23	54.0	8.77	AV	219.00	400	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	1511.717	41.67	74.0	32.33	Peak	289.00	200	Horizontal	Pass
1**	1511.717	27.28	54.0	26.72	AV	289.00	200	Horizontal	Pass
2	2346.975	46.63	74.0	27.37	Peak	214.00	200	Horizontal	Pass
2**	2346.975	35.83	54.0	18.17	AV	214.00	200	Horizontal	Pass
3	4202.361	46.10	74.0	27.90	Peak	323.00	200	Horizontal	Pass
3**	4202.361	39.12	54.0	14.88	AV	323.00	200	Horizontal	Pass
4	7437.471	53.84	74.0	20.16	Peak	92.00	400	Horizontal	Pass
4**	7437.471	43.11	54.0	10.89	AV	92.00	400	Horizontal	Pass
5	12515.527	58.66	74.0	15.34	Peak	267.00	400	Horizontal	Pass
5**	12515.527	45.88	54.0	8.12	AV	267.00	400	Horizontal	Pass
6	16145.287	56.45	74.0	17.55	Peak	142.00	300	Horizontal	Pass
6**	16145.287	45.12	54.0	8.88	AV	142.00	300	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	1569.327	38.00	74.0	36.00	Peak	278.00	100	Vertical	Pass
1**	1569.327	29.06	54.0	24.94	AV	278.00	100	Vertical	Pass
2	2347.418	44.71	74.0	29.29	Peak	124.00	200	Vertical	Pass
2**	2347.418	36.26	54.0	17.74	AV	124.00	200	Vertical	Pass
3	3913.273	43.35	74.0	30.65	Peak	110.00	200	Vertical	Pass
3**	3913.273	35.12	54.0	18.88	AV	110.00	200	Vertical	Pass
4	7681.837	51.05	74.0	22.95	Peak	295.00	400	Vertical	Pass
4**	7681.837	43.84	54.0	10.16	AV	295.00	400	Vertical	Pass
5	12527.820	58.44	74.0	15.56	Peak	238.00	100	Vertical	Pass
5**	12527.820	45.21	54.0	8.79	AV	238.00	100	Vertical	Pass
6	15380.584	53.61	74.0	20.39	Peak	341.00	200	Vertical	Pass
6**	15380.584	43.96	54.0	10.04	AV	341.00	200	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	1510.927	39.59	74.0	34.41	Peak	87.00	400	Horizontal	Pass
1**	1510.927	31.51	54.0	22.49	AV	87.00	400	Horizontal	Pass
2	2349.393	47.36	74.0	26.64	Peak	303.00	400	Horizontal	Pass
2**	2349.393	40.21	54.0	13.79	AV	303.00	400	Horizontal	Pass
3	4208.362	50.58	74.0	23.42	Peak	129.00	200	Horizontal	Pass
3**	4208.362	35.92	54.0	18.08	AV	129.00	200	Horizontal	Pass
4	7437.155	55.98	74.0	18.02	Peak	320.00	100	Horizontal	Pass
4**	7437.155	39.85	54.0	14.15	AV	320.00	100	Horizontal	Pass
5	12519.334	56.09	74.0	17.91	Peak	315.00	100	Horizontal	Pass
5**	12519.334	48.92	54.0	5.08	AV	315.00	100	Horizontal	Pass
6	16147.898	56.54	74.0	17.46	Peak	19.00	100	Horizontal	Pass
6**	16147.898	45.62	54.0	8.38	AV	19.00	100	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	1571.512	37.15	74.0	36.85	Peak	77.00	100	Vertical	Pass
1**	1571.512	26.99	54.0	27.01	AV	77.00	100	Vertical	Pass
2	2349.399	44.90	74.0	29.10	Peak	58.00	300	Vertical	Pass
2**	2349.399	32.80	54.0	21.20	AV	58.00	300	Vertical	Pass
3	3920.622	46.39	74.0	27.61	Peak	258.00	200	Vertical	Pass
3**	3920.622	34.35	54.0	19.65	AV	258.00	200	Vertical	Pass
4	7677.688	54.52	74.0	19.48	Peak	316.00	300	Vertical	Pass
4**	7677.688	41.06	54.0	12.94	AV	316.00	300	Vertical	Pass
5	12526.701	56.54	74.0	17.46	Peak	116.00	200	Vertical	Pass
5**	12526.701	43.52	54.0	10.48	AV	116.00	200	Vertical	Pass
6	15379.772	55.90	74.0	18.10	Peak	206.00	400	Vertical	Pass
6**	15379.772	46.50	54.0	7.50	AV	206.00	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	1513.015	39.12	74.0	34.88	Peak	239.00	400	Horizontal	Pass
1**	1513.015	31.69	54.0	22.31	AV	239.00	400	Horizontal	Pass
2	2346.911	43.82	74.0	30.18	Peak	249.00	200	Horizontal	Pass
2**	2346.911	34.66	54.0	19.34	AV	249.00	200	Horizontal	Pass
3	4202.229	47.63	74.0	26.37	Peak	7.00	200	Horizontal	Pass
3**	4202.229	36.36	54.0	17.64	AV	7.00	200	Horizontal	Pass
4	7434.348	52.76	74.0	21.24	Peak	305.00	300	Horizontal	Pass
4**	7434.348	45.26	54.0	8.74	AV	305.00	300	Horizontal	Pass
5	12514.167	57.79	74.0	16.21	Peak	133.00	400	Horizontal	Pass
5**	12514.167	44.11	54.0	9.89	AV	133.00	400	Horizontal	Pass
6	16145.045	56.79	74.0	17.21	Peak	112.00	200	Horizontal	Pass
6**	16145.045	43.72	54.0	10.28	AV	112.00	200	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	1568.882	33.98	74.0	40.02	Peak	26.00	200	Vertical	Pass
1**	1568.882	23.85	54.0	30.15	AV	26.00	200	Vertical	Pass
2	2346.789	44.72	74.0	29.28	Peak	268.00	200	Vertical	Pass
2**	2346.789	34.91	54.0	19.09	AV	268.00	200	Vertical	Pass
3	3916.009	47.60	74.0	26.40	Peak	226.00	200	Vertical	Pass
3**	3916.009	37.72	54.0	16.28	AV	226.00	200	Vertical	Pass
4	7678.314	51.42	74.0	22.58	Peak	303.00	200	Vertical	Pass
4**	7678.314	46.38	54.0	7.62	AV	303.00	200	Vertical	Pass
5	12531.848	54.49	74.0	19.51	Peak	117.00	400	Vertical	Pass
5**	12531.848	44.49	54.0	9.51	AV	117.00	400	Vertical	Pass
6	15378.733	53.17	74.0	20.83	Peak	83.00	100	Vertical	Pass
6**	15378.733	45.15	54.0	8.85	AV	83.00	100	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	1507.929	38.22	74.0	35.78	Peak	153.00	100	Horizontal	Pass
1**	1507.929	28.30	54.0	25.70	AV	153.00	100	Horizontal	Pass
2	2348.144	44.35	74.0	29.65	Peak	53.00	300	Horizontal	Pass
2**	2348.144	39.89	54.0	14.11	AV	53.00	300	Horizontal	Pass
3	4205.959	48.28	74.0	25.72	Peak	309.00	200	Horizontal	Pass
3**	4205.959	37.01	54.0	16.99	AV	309.00	200	Horizontal	Pass
4	7438.072	53.13	74.0	20.87	Peak	4.00	300	Horizontal	Pass
4**	7438.072	40.14	54.0	13.86	AV	4.00	300	Horizontal	Pass
5	12517.217	56.88	74.0	17.12	Peak	238.00	300	Horizontal	Pass
5**	12517.217	48.27	54.0	5.73	AV	238.00	300	Horizontal	Pass
6	16145.941	53.94	74.0	20.06	Peak	89.00	200	Horizontal	Pass
6**	16145.941	44.65	54.0	9.35	AV	89.00	200	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	1572.959	36.26	74.0	37.74	Peak	220.00	300	Vertical	Pass
1**	1572.959	26.31	54.0	27.69	AV	220.00	300	Vertical	Pass
2	2343.321	46.49	74.0	27.51	Peak	269.00	400	Vertical	Pass
2**	2343.321	35.72	54.0	18.28	AV	269.00	400	Vertical	Pass
3	3915.146	46.00	74.0	28.00	Peak	114.00	200	Vertical	Pass
3**	3915.146	33.94	54.0	20.06	AV	114.00	200	Vertical	Pass
4	7678.791	50.78	74.0	23.22	Peak	5.00	200	Vertical	Pass
4**	7678.791	42.02	54.0	11.98	AV	5.00	200	Vertical	Pass
5	12525.820	55.51	74.0	18.49	Peak	110.00	200	Vertical	Pass
5**	12525.820	40.16	54.0	13.84	AV	110.00	200	Vertical	Pass
6	15386.017	52.05	74.0	21.95	Peak	278.00	300	Vertical	Pass
6**	15386.017	43.24	54.0	10.76	AV	278.00	300	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	1512.846	41.14	74.0	32.86	Peak	333.00	200	Horizontal	Pass
1**	1512.846	26.80	54.0	27.20	AV	333.00	200	Horizontal	Pass
2	2349.503	45.17	74.0	28.83	Peak	303.00	400	Horizontal	Pass
2**	2349.503	36.29	54.0	17.71	AV	303.00	400	Horizontal	Pass
3	4208.565	48.68	74.0	25.32	Peak	91.00	200	Horizontal	Pass
3**	4208.565	37.46	54.0	16.54	AV	91.00	200	Horizontal	Pass
4	7435.230	53.96	74.0	20.04	Peak	3.00	300	Horizontal	Pass
4**	7435.230	41.28	54.0	12.72	AV	3.00	300	Horizontal	Pass
5	12519.450	54.17	74.0	19.83	Peak	16.00	200	Horizontal	Pass
5**	12519.450	46.49	54.0	7.51	AV	16.00	200	Horizontal	Pass
6	16143.745	52.09	74.0	21.91	Peak	38.00	200	Horizontal	Pass
6**	16143.745	45.38	54.0	8.62	AV	38.00	200	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	1574.367	38.05	74.0	35.95	Peak	300.00	300	Vertical	Pass
1**	1574.367	28.73	54.0	25.27	AV	300.00	300	Vertical	Pass
2	2349.339	43.12	74.0	30.88	Peak	329.00	200	Vertical	Pass
2**	2349.339	35.81	54.0	18.19	AV	329.00	200	Vertical	Pass
3	3917.745	42.55	74.0	31.45	Peak	140.00	200	Vertical	Pass
3**	3917.745	37.75	54.0	16.25	AV	140.00	200	Vertical	Pass
4	7678.188	50.15	74.0	23.85	Peak	190.00	400	Vertical	Pass
4**	7678.188	45.85	54.0	8.15	AV	190.00	400	Vertical	Pass
5	12529.499	54.68	74.0	19.32	Peak	169.00	200	Vertical	Pass
5**	12529.499	44.24	54.0	9.76	AV	169.00	200	Vertical	Pass
6	15380.928	54.17	74.0	19.83	Peak	90.00	400	Vertical	Pass
6**	15380.928	43.40	54.0	10.60	AV	90.00	400	Vertical	Pass

11ac80, 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	1513.415	38.88	74.0	35.12	Peak	2.00	300	Horizontal	Pass
1**	1513.415	28.94	54.0	25.06	AV	2.00	300	Horizontal	Pass
2	2347.711	42.41	74.0	31.59	Peak	71.00	300	Horizontal	Pass
2**	2347.711	36.60	54.0	17.40	AV	71.00	300	Horizontal	Pass
3	4205.596	47.40	74.0	26.60	Peak	198.00	200	Horizontal	Pass
3**	4205.596	37.75	54.0	16.25	AV	198.00	200	Horizontal	Pass
4	7431.912	52.86	74.0	21.14	Peak	56.00	100	Horizontal	Pass
4**	7431.912	43.56	54.0	10.44	AV	56.00	100	Horizontal	Pass
5	12520.599	53.44	74.0	20.56	Peak	209.00	100	Horizontal	Pass
5**	12520.599	44.52	54.0	9.48	AV	209.00	100	Horizontal	Pass
6	16146.933	53.52	74.0	20.48	Peak	326.00	400	Horizontal	Pass
6**	16146.933	46.04	54.0	7.96	AV	326.00	400	Horizontal	Pass

11ac80, 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	1568.230	39.20	74.0	34.80	Peak	23.00	300	Vertical	Pass
1**	1568.230	28.22	54.0	25.78	AV	23.00	300	Vertical	Pass
2	2349.412	46.50	74.0	27.50	Peak	59.00	100	Vertical	Pass
2**	2349.412	35.12	54.0	18.88	AV	59.00	100	Vertical	Pass
3	3915.797	45.33	74.0	28.67	Peak	350.00	200	Vertical	Pass
3**	3915.797	34.35	54.0	19.65	AV	350.00	200	Vertical	Pass
4	7678.797	49.70	74.0	24.30	Peak	254.00	300	Vertical	Pass
4**	7678.797	42.75	54.0	11.25	AV	254.00	300	Vertical	Pass
5	12529.623	53.08	74.0	20.92	Peak	85.00	400	Vertical	Pass
5**	12529.623	42.14	54.0	11.86	AV	85.00	400	Vertical	Pass
6	15380.523	55.10	74.0	18.90	Peak	144.00	400	Vertical	Pass
6**	15380.523	42.69	54.0	11.31	AV	144.00	400	Vertical	Pass

11a, 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	1523.361	38.47	74.0	35.53	Peak	128.00	300	Horizontal	Pass
1**	1523.361	27.64	54.0	26.36	AV	128.00	300	Horizontal	Pass
2	4018.107	46.71	74.0	27.29	Peak	168.00	300	Horizontal	Pass
2**	4018.107	34.15	54.0	19.85	AV	168.00	300	Horizontal	Pass
3	7601.199	53.46	74.0	20.54	Peak	336.00	200	Horizontal	Pass
3**	7601.199	43.11	54.0	10.89	AV	336.00	200	Horizontal	Pass
4	12454.585	54.96	74.0	19.04	Peak	55.00	400	Horizontal	Pass
4**	12454.585	41.53	54.0	12.47	AV	55.00	400	Horizontal	Pass
5	16097.156	53.24	74.0	20.76	Peak	170.00	200	Horizontal	Pass
5**	16097.156	43.95	54.0	10.05	AV	170.00	200	Horizontal	Pass
6	17417.432	56.96	74.0	17.04	Peak	75.00	200	Horizontal	Pass
6**	17417.432	49.46	54.0	4.54	AV	75.00	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	1332.269	45.96	74.0	28.04	Peak	186.00	300	Vertical	Pass
1**	1332.269	31.10	54.0	22.90	AV	186.00	300	Vertical	Pass
2	1443.004	41.41	74.0	32.59	Peak	95.00	400	Vertical	Pass
2**	1443.004	37.95	54.0	16.05	AV	95.00	400	Vertical	Pass
3	4314.940	49.04	74.0	24.96	Peak	147.00	200	Vertical	Pass
3**	4314.940	36.30	54.0	17.70	AV	147.00	200	Vertical	Pass
4	7591.701	52.61	74.0	21.39	Peak	59.00	400	Vertical	Pass
4**	7591.701	42.26	54.0	11.74	AV	59.00	400	Vertical	Pass
5	12536.462	53.77	74.0	20.23	Peak	312.00	100	Vertical	Pass
5**	12536.462	45.06	54.0	8.94	AV	312.00	100	Vertical	Pass
6	15907.022	56.43	74.0	17.57	Peak	12.00	300	Vertical	Pass
6**	15907.022	45.24	54.0	8.76	AV	12.00	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	1523.072	36.09	74.0	37.91	Peak	278.00	200	Horizontal	Pass
1**	1523.072	32.58	54.0	21.42	AV	278.00	200	Horizontal	Pass
2	4016.438	44.31	74.0	29.69	Peak	44.00	200	Horizontal	Pass
2**	4016.438	39.09	54.0	14.91	AV	44.00	200	Horizontal	Pass
3	7597.165	56.11	74.0	17.89	Peak	299.00	200	Horizontal	Pass
3**	7597.165	41.35	54.0	12.65	AV	299.00	200	Horizontal	Pass
4	12458.118	50.78	74.0	23.22	Peak	205.00	400	Horizontal	Pass
4**	12458.118	45.75	54.0	8.25	AV	205.00	400	Horizontal	Pass
5	16098.014	56.04	74.0	17.96	Peak	230.00	400	Horizontal	Pass
5**	16098.014	47.30	54.0	6.70	AV	230.00	400	Horizontal	Pass
6	17415.822	58.93	74.0	15.07	Peak	272.00	400	Horizontal	Pass
6**	17415.822	49.95	54.0	4.05	AV	272.00	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	1334.321	42.89	74.0	31.11	Peak	158.00	400	Vertical	Pass
1**	1334.321	30.89	54.0	23.11	AV	158.00	400	Vertical	Pass
2	1441.341	40.72	74.0	33.28	Peak	357.00	200	Vertical	Pass
2**	1441.341	38.16	54.0	15.84	AV	357.00	200	Vertical	Pass
3	4311.241	47.79	74.0	26.21	Peak	34.00	200	Vertical	Pass
3**	4311.241	39.61	54.0	14.39	AV	34.00	200	Vertical	Pass
4	7597.594	52.09	74.0	21.91	Peak	94.00	100	Vertical	Pass
4**	7597.594	43.37	54.0	10.63	AV	94.00	100	Vertical	Pass
5	12532.332	56.08	74.0	17.92	Peak	158.00	400	Vertical	Pass
5**	12532.332	46.41	54.0	7.59	AV	158.00	400	Vertical	Pass
6	15907.061	57.05	74.0	16.95	Peak	217.00	400	Vertical	Pass
6**	15907.061	45.70	54.0	8.30	AV	217.00	400	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	1051.427	54.42	74.0	19.58	Peak	176.00	400	Horizontal	Pass
1**	1051.427	49.49	54.0	4.52	AV	176.00	400	Horizontal	Pass
2	3690.411	48.66	74.0	25.34	Peak	183.00	200	Horizontal	Pass
2**	3690.411	44.59	54.0	9.41	AV	183.00	200	Horizontal	Pass
3	4221.176	51.24	74.0	22.76	Peak	105.00	200	Horizontal	Pass
3**	4221.176	48.74	54.0	5.26	AV	105.00	200	Horizontal	Pass
4	7332.142	44.51	74.0	29.49	Peak	53.00	300	Horizontal	Pass
4**	7332.142	40.41	54.0	13.59	AV	53.00	300	Horizontal	Pass
5	12515.861	55.75	74.0	18.25	Peak	247.00	100	Horizontal	Pass
5**	12515.861	46.99	54.0	7.01	AV	247.00	100	Horizontal	Pass
6	16149.935	54.20	74.0	19.80	Peak	55.00	400	Horizontal	Pass
6**	16149.935	43.90	54.0	10.10	AV	55.00	400	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	1333.635	46.65	74.0	27.35	Peak	192.00	300	Vertical	Pass
1**	1333.635	34.14	54.0	19.86	AV	192.00	300	Vertical	Pass
2	1437.866	42.20	74.0	31.80	Peak	31.00	400	Vertical	Pass
2**	1437.866	38.03	54.0	15.97	AV	31.00	400	Vertical	Pass
3	4309.650	46.54	74.0	27.46	Peak	70.00	200	Vertical	Pass
3**	4309.650	35.70	54.0	18.30	AV	70.00	200	Vertical	Pass
4	7595.121	54.01	74.0	19.99	Peak	150.00	200	Vertical	Pass
4**	7595.121	42.04	54.0	11.96	AV	150.00	200	Vertical	Pass
5	12533.999	51.02	74.0	22.98	Peak	15.00	200	Vertical	Pass
5**	12533.999	42.82	54.0	11.18	AV	15.00	200	Vertical	Pass
6	15905.162	52.93	74.0	21.07	Peak	130.00	100	Vertical	Pass
6**	15905.162	45.54	54.0	8.46	AV	130.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1521.522	35.30	74.0	38.70	Peak	78.00	300	Horizontal	Pass
1**	1521.522	31.70	54.0	22.30	AV	78.00	300	Horizontal	Pass
2	4018.728	47.93	74.0	26.07	Peak	105.00	400	Horizontal	Pass
2**	4018.728	35.11	54.0	18.89	AV	105.00	400	Horizontal	Pass
3	7599.982	55.63	74.0	18.37	Peak	168.00	200	Horizontal	Pass
3**	7599.982	46.28	54.0	7.72	AV	168.00	200	Horizontal	Pass
4	12457.650	52.52	74.0	21.48	Peak	92.00	400	Horizontal	Pass
4**	12457.650	43.25	54.0	10.75	AV	92.00	400	Horizontal	Pass
5	16091.651	55.25	74.0	18.75	Peak	27.00	300	Horizontal	Pass
5**	16091.651	46.89	54.0	7.11	AV	27.00	300	Horizontal	Pass
6	17418.956	58.20	74.0	15.80	Peak	311.00	100	Horizontal	Pass
6**	17418.956	47.17	54.0	6.83	AV	311.00	100	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	1336.142	45.02	74.0	28.98	Peak	299.00	200	Vertical	Pass
1**	1336.142	31.59	54.0	22.41	AV	299.00	200	Vertical	Pass
2	1443.353	44.10	74.0	29.90	Peak	14.00	100	Vertical	Pass
2**	1443.353	39.67	54.0	14.33	AV	14.00	100	Vertical	Pass
3	4310.369	46.68	74.0	27.32	Peak	291.00	200	Vertical	Pass
3**	4310.369	41.14	54.0	12.86	AV	291.00	200	Vertical	Pass
4	7596.454	50.64	74.0	23.36	Peak	39.00	200	Vertical	Pass
4**	7596.454	40.85	54.0	13.15	AV	39.00	200	Vertical	Pass
5	12531.135	52.93	74.0	21.07	Peak	208.00	300	Vertical	Pass
5**	12531.135	45.78	54.0	8.22	AV	208.00	300	Vertical	Pass
6	15906.914	53.91	74.0	20.09	Peak	144.00	100	Vertical	Pass
6**	15906.914	47.41	54.0	6.59	AV	144.00	100	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	1519.824	36.21	74.0	37.79	Peak	77.00	300	Horizontal	Pass
1**	1519.824	27.13	54.0	26.87	AV	77.00	300	Horizontal	Pass
2	4017.783	49.21	74.0	24.79	Peak	148.00	100	Horizontal	Pass
2**	4017.783	36.07	54.0	17.93	AV	148.00	100	Horizontal	Pass
3	7600.303	54.55	74.0	19.45	Peak	235.00	200	Horizontal	Pass
3**	7600.303	43.31	54.0	10.69	AV	235.00	200	Horizontal	Pass
4	12452.632	54.72	74.0	19.28	Peak	278.00	400	Horizontal	Pass
4**	12452.632	42.94	54.0	11.06	AV	278.00	400	Horizontal	Pass
5	16098.524	50.63	74.0	23.37	Peak	279.00	300	Horizontal	Pass
5**	16098.524	47.72	54.0	6.28	AV	279.00	300	Horizontal	Pass
6	17423.014	53.40	74.0	20.60	Peak	220.00	400	Horizontal	Pass
6**	17423.014	47.62	54.0	6.38	AV	220.00	400	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	1336.980	43.59	74.0	30.41	Peak	109.00	400	Vertical	Pass
1**	1336.980	36.41	54.0	17.59	AV	109.00	400	Vertical	Pass
2	1440.486	43.65	74.0	30.35	Peak	77.00	200	Vertical	Pass
2**	1440.486	36.25	54.0	17.75	AV	77.00	200	Vertical	Pass
3	4310.197	46.30	74.0	27.70	Peak	353.00	200	Vertical	Pass
3**	4310.197	35.81	54.0	18.19	AV	353.00	200	Vertical	Pass
4	7592.225	53.28	74.0	20.72	Peak	4.00	100	Vertical	Pass
4**	7592.225	42.34	54.0	11.66	AV	4.00	100	Vertical	Pass
5	12535.707	54.24	74.0	19.76	Peak	317.00	400	Vertical	Pass
5**	12535.707	43.75	54.0	10.25	AV	317.00	400	Vertical	Pass
6	15902.836	53.23	74.0	20.77	Peak	328.00	200	Vertical	Pass
6**	15902.836	46.81	54.0	7.19	AV	328.00	200	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	1521.806	37.67	74.0	36.33	Peak	134.00	200	Horizontal	Pass
1**	1521.806	26.93	54.0	27.07	AV	134.00	200	Horizontal	Pass
2	4022.589	46.21	74.0	27.79	Peak	278.00	200	Horizontal	Pass
2**	4022.589	38.03	54.0	15.97	AV	278.00	200	Horizontal	Pass
3	7601.105	52.48	74.0	21.52	Peak	130.00	200	Horizontal	Pass
3**	7601.105	44.91	54.0	9.09	AV	130.00	200	Horizontal	Pass
4	12454.188	51.88	74.0	22.12	Peak	181.00	100	Horizontal	Pass
4**	12454.188	45.09	54.0	8.91	AV	181.00	100	Horizontal	Pass
5	16094.145	52.43	74.0	21.57	Peak	242.00	400	Horizontal	Pass
5**	16094.145	43.15	54.0	10.85	AV	242.00	400	Horizontal	Pass
6	17417.476	54.20	74.0	19.80	Peak	27.00	400	Horizontal	Pass
6**	17417.476	48.75	54.0	5.25	AV	27.00	400	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	1332.831	44.19	74.0	29.81	Peak	56.00	200	Vertical	Pass
1**	1332.831	36.19	54.0	17.81	AV	56.00	200	Vertical	Pass
2	1438.516	44.05	74.0	29.95	Peak	284.00	300	Vertical	Pass
2**	1438.516	37.54	54.0	16.46	AV	284.00	300	Vertical	Pass
3	4312.438	46.76	74.0	27.24	Peak	71.00	200	Vertical	Pass
3**	4312.438	36.83	54.0	17.17	AV	71.00	200	Vertical	Pass
4	7594.298	51.31	74.0	22.69	Peak	304.00	100	Vertical	Pass
4**	7594.298	44.55	54.0	9.45	AV	304.00	100	Vertical	Pass
5	12532.758	53.04	74.0	20.96	Peak	202.00	100	Vertical	Pass
5**	12532.758	44.42	54.0	9.58	AV	202.00	100	Vertical	Pass
6	15907.268	54.29	74.0	19.71	Peak	52.00	200	Vertical	Pass
6**	15907.268	46.26	54.0	7.74	AV	52.00	200	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	1524.043	36.65	74.0	37.35	Peak	341.00	200	Horizontal	Pass
1**	1524.043	32.08	54.0	21.92	AV	341.00	200	Horizontal	Pass
2	4020.128	44.79	74.0	29.21	Peak	146.00	300	Horizontal	Pass
2**	4020.128	34.92	54.0	19.08	AV	146.00	300	Horizontal	Pass
3	7595.136	51.96	74.0	22.04	Peak	59.00	200	Horizontal	Pass
3**	7595.136	40.69	54.0	13.31	AV	59.00	200	Horizontal	Pass
4	12453.047	53.71	74.0	20.29	Peak	318.00	400	Horizontal	Pass
4**	12453.047	41.95	54.0	12.05	AV	318.00	400	Horizontal	Pass
5	16098.674	51.33	74.0	22.67	Peak	148.00	100	Horizontal	Pass
5**	16098.674	44.27	54.0	9.73	AV	148.00	100	Horizontal	Pass
6	17417.802	54.05	74.0	19.95	Peak	201.00	200	Horizontal	Pass
6**	17417.802	48.55	54.0	5.45	AV	201.00	200	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	1332.016	45.64	74.0	28.36	Peak	240.00	400	Vertical	Pass
1**	1332.016	32.97	54.0	21.03	AV	240.00	400	Vertical	Pass
2	1438.612	40.69	74.0	33.31	Peak	351.00	200	Vertical	Pass
2**	1438.612	34.04	54.0	19.96	AV	351.00	200	Vertical	Pass
3	4308.834	47.95	74.0	26.05	Peak	85.00	200	Vertical	Pass
3**	4308.834	40.56	54.0	13.44	AV	85.00	200	Vertical	Pass
4	7596.781	50.42	74.0	23.58	Peak	233.00	100	Vertical	Pass
4**	7596.781	44.24	54.0	9.76	AV	233.00	100	Vertical	Pass
5	12532.906	51.87	74.0	22.13	Peak	305.00	300	Vertical	Pass
5**	12532.906	40.85	54.0	13.15	AV	305.00	300	Vertical	Pass
6	15907.285	53.25	74.0	20.75	Peak	30.00	400	Vertical	Pass
6**	15907.285	48.31	54.0	5.69	AV	30.00	400	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	1523.832	36.10	74.0	37.90	Peak	30.00	300	Horizontal	Pass
1**	1523.832	27.13	54.0	26.87	AV	30.00	300	Horizontal	Pass
2	4021.867	49.17	74.0	24.83	Peak	36.00	300	Horizontal	Pass
2**	4021.867	34.83	54.0	19.17	AV	36.00	300	Horizontal	Pass
3	7595.066	54.13	74.0	19.87	Peak	0.00	200	Horizontal	Pass
3**	7595.066	42.34	54.0	11.66	AV	0.00	200	Horizontal	Pass
4	12454.028	56.22	74.0	17.78	Peak	348.00	200	Horizontal	Pass
4**	12454.028	41.20	54.0	12.80	AV	348.00	200	Horizontal	Pass
5	16091.363	53.99	74.0	20.01	Peak	172.00	400	Horizontal	Pass
5**	16091.363	42.13	54.0	11.87	AV	172.00	400	Horizontal	Pass
6	17420.963	55.27	74.0	18.73	Peak	49.00	400	Horizontal	Pass
6**	17420.963	47.40	54.0	6.60	AV	49.00	400	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	1330.720	44.02	74.0	29.98	Peak	199.00	300	Vertical	Pass
1**	1330.720	31.38	54.0	22.62	AV	199.00	300	Vertical	Pass
2	1437.011	43.51	74.0	30.49	Peak	264.00	300	Vertical	Pass
2**	1437.011	38.25	54.0	15.75	AV	264.00	300	Vertical	Pass
3	4311.775	47.72	74.0	26.28	Peak	241.00	200	Vertical	Pass
3**	4311.775	40.98	54.0	13.02	AV	241.00	200	Vertical	Pass
4	7591.967	55.03	74.0	18.97	Peak	118.00	300	Vertical	Pass
4**	7591.967	46.09	54.0	7.91	AV	118.00	300	Vertical	Pass
5	12532.218	50.86	74.0	23.14	Peak	225.00	200	Vertical	Pass
5**	12532.218	45.27	54.0	8.73	AV	225.00	200	Vertical	Pass
6	15903.952	51.72	74.0	22.28	Peak	156.00	400	Vertical	Pass
6**	15903.952	44.67	54.0	9.33	AV	156.00	400	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	1520.232	38.41	74.0	35.59	Peak	1.00	400	Horizontal	Pass
1**	1520.232	32.47	54.0	21.53	AV	1.00	400	Horizontal	Pass
2	4017.082	46.60	74.0	27.40	Peak	178.00	200	Horizontal	Pass
2**	4017.082	38.91	54.0	15.09	AV	178.00	200	Horizontal	Pass
3	7597.165	54.74	74.0	19.26	Peak	127.00	200	Horizontal	Pass
3**	7597.165	45.33	54.0	8.67	AV	127.00	200	Horizontal	Pass
4	12455.114	53.94	74.0	20.06	Peak	200.00	300	Horizontal	Pass
4**	12455.114	46.35	54.0	7.65	AV	200.00	300	Horizontal	Pass
5	16092.631	56.21	74.0	17.79	Peak	200.00	300	Horizontal	Pass
5**	16092.631	45.10	54.0	8.90	AV	200.00	300	Horizontal	Pass
6	17418.668	57.73	74.0	16.27	Peak	225.00	100	Horizontal	Pass
6**	17418.668	49.55	54.0	4.45	AV	225.00	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	1329.813	43.44	74.0	30.56	Peak	38.00	100	Vertical	Pass
1**	1329.813	34.94	54.0	19.06	AV	38.00	100	Vertical	Pass
2	1437.723	41.91	74.0	32.09	Peak	300.00	400	Vertical	Pass
2**	1437.723	34.93	54.0	19.07	AV	300.00	400	Vertical	Pass
3	4311.921	47.27	74.0	26.73	Peak	348.00	200	Vertical	Pass
3**	4311.921	39.14	54.0	14.86	AV	348.00	200	Vertical	Pass
4	7595.578	52.74	74.0	21.26	Peak	265.00	300	Vertical	Pass
4**	7595.578	45.15	54.0	8.85	AV	265.00	300	Vertical	Pass
5	12536.003	54.65	74.0	19.35	Peak	59.00	200	Vertical	Pass
5**	12536.003	45.48	54.0	8.52	AV	59.00	200	Vertical	Pass
6	15905.339	56.11	74.0	17.89	Peak	22.00	100	Vertical	Pass
6**	15905.339	42.68	54.0	11.32	AV	22.00	100	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	1522.175	37.26	74.0	36.74	Peak	48.00	200	Horizontal	Pass
1**	1522.175	28.43	54.0	25.57	AV	48.00	200	Horizontal	Pass
2	4018.537	47.80	74.0	26.20	Peak	202.00	200	Horizontal	Pass
2**	4018.537	37.07	54.0	16.93	AV	202.00	200	Horizontal	Pass
3	7599.401	55.20	74.0	18.80	Peak	125.00	200	Horizontal	Pass
3**	7599.401	41.47	54.0	12.53	AV	125.00	200	Horizontal	Pass
4	12454.252	53.99	74.0	20.01	Peak	44.00	100	Horizontal	Pass
4**	12454.252	41.48	54.0	12.52	AV	44.00	100	Horizontal	Pass
5	16092.599	54.93	74.0	19.07	Peak	159.00	200	Horizontal	Pass
5**	16092.599	47.53	54.0	6.47	AV	159.00	200	Horizontal	Pass
6	17418.670	56.34	74.0	17.66	Peak	336.00	300	Horizontal	Pass
6**	17418.670	44.86	54.0	9.14	AV	336.00	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	1336.694	42.38	74.0	31.62	Peak	350.00	300	Vertical	Pass
1**	1336.694	34.49	54.0	19.51	AV	350.00	300	Vertical	Pass
2	1437.147	42.95	74.0	31.05	Peak	58.00	100	Vertical	Pass
2**	1437.147	34.57	54.0	19.43	AV	58.00	100	Vertical	Pass
3	4311.897	46.87	74.0	27.13	Peak	69.00	200	Vertical	Pass
3**	4311.897	37.06	54.0	16.94	AV	69.00	200	Vertical	Pass
4	7591.430	52.55	74.0	21.45	Peak	258.00	300	Vertical	Pass
4**	7591.430	41.60	54.0	12.40	AV	258.00	300	Vertical	Pass
5	12532.446	52.27	74.0	21.73	Peak	274.00	400	Vertical	Pass
5**	12532.446	41.02	54.0	12.98	AV	274.00	400	Vertical	Pass
6	15906.994	56.68	74.0	17.32	Peak	202.00	300	Vertical	Pass
6**	15906.994	44.38	54.0	9.62	AV	202.00	300	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	1521.831	36.18	74.0	37.82	Peak	308.00	400	Horizontal	Pass
1**	1521.831	32.01	54.0	21.99	AV	308.00	400	Horizontal	Pass
2	4018.827	46.23	74.0	27.77	Peak	270.00	200	Horizontal	Pass
2**	4018.827	38.73	54.0	15.27	AV	270.00	200	Horizontal	Pass
3	7598.632	51.66	74.0	22.34	Peak	61.00	200	Horizontal	Pass
3**	7598.632	43.93	54.0	10.07	AV	61.00	200	Horizontal	Pass
4	12459.189	53.19	74.0	20.81	Peak	133.00	300	Horizontal	Pass
4**	12459.189	46.70	54.0	7.30	AV	133.00	300	Horizontal	Pass
5	16096.436	51.36	74.0	22.64	Peak	193.00	400	Horizontal	Pass
5**	16096.436	44.12	54.0	9.88	AV	193.00	400	Horizontal	Pass
6	17421.586	57.72	74.0	16.28	Peak	23.00	100	Horizontal	Pass
6**	17421.586	47.72	54.0	6.28	AV	23.00	100	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	1334.142	43.44	74.0	30.56	Peak	223.00	200	Vertical	Pass
1**	1334.142	32.13	54.0	21.87	AV	223.00	200	Vertical	Pass
2	1442.864	44.87	74.0	29.13	Peak	102.00	300	Vertical	Pass
2**	1442.864	34.03	54.0	19.97	AV	102.00	300	Vertical	Pass
3	4312.477	46.04	74.0	27.96	Peak	152.00	200	Vertical	Pass
3**	4312.477	39.66	54.0	14.34	AV	152.00	200	Vertical	Pass
4	7592.078	51.91	74.0	22.09	Peak	58.00	100	Vertical	Pass
4**	7592.078	45.33	54.0	8.67	AV	58.00	100	Vertical	Pass
5	12535.828	54.30	74.0	19.70	Peak	307.00	400	Vertical	Pass
5**	12535.828	43.22	54.0	10.78	AV	307.00	400	Vertical	Pass
6	15906.422	56.44	74.0	17.56	Peak	109.00	400	Vertical	Pass
6**	15906.422	43.45	54.0	10.55	AV	109.00	400	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	1522.384	40.70	74.0	33.30	Peak	16.00	100	Horizontal	Pass
1**	1522.384	27.56	54.0	26.44	AV	16.00	100	Horizontal	Pass
2	4020.515	45.07	74.0	28.93	Peak	46.00	300	Horizontal	Pass
2**	4020.515	37.69	54.0	16.31	AV	46.00	300	Horizontal	Pass
3	7597.185	54.53	74.0	19.47	Peak	328.00	200	Horizontal	Pass
3**	7597.185	42.16	54.0	11.84	AV	328.00	200	Horizontal	Pass
4	12457.142	54.21	74.0	19.79	Peak	157.00	100	Horizontal	Pass
4**	12457.142	46.82	54.0	7.18	AV	157.00	100	Horizontal	Pass
5	16092.033	51.41	74.0	22.59	Peak	223.00	400	Horizontal	Pass
5**	16092.033	46.01	54.0	7.99	AV	223.00	400	Horizontal	Pass
6	17423.414	53.94	74.0	20.06	Peak	254.00	300	Horizontal	Pass
6**	17423.414	45.07	54.0	8.93	AV	254.00	300	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	1336.679	46.89	74.0	27.11	Peak	54.00	300	Vertical	Pass
1**	1336.679	36.74	54.0	17.26	AV	54.00	300	Vertical	Pass
2	1438.757	40.69	74.0	33.31	Peak	192.00	100	Vertical	Pass
2**	1438.757	36.83	54.0	17.17	AV	192.00	100	Vertical	Pass
3	4310.253	46.84	74.0	27.16	Peak	3.00	200	Vertical	Pass
3**	4310.253	39.13	54.0	14.87	AV	3.00	200	Vertical	Pass
4	7592.809	50.58	74.0	23.42	Peak	126.00	100	Vertical	Pass
4**	7592.809	43.06	54.0	10.94	AV	126.00	100	Vertical	Pass
5	12533.389	55.61	74.0	18.39	Peak	144.00	200	Vertical	Pass
5**	12533.389	45.59	54.0	8.41	AV	144.00	200	Vertical	Pass
6	15905.363	53.92	74.0	20.08	Peak	223.00	300	Vertical	Pass
6**	15905.363	42.85	54.0	11.15	AV	223.00	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	1524.118	35.44	74.0	38.56	Peak	334.00	300	Horizontal	Pass
1**	1524.118	32.38	54.0	21.62	AV	334.00	300	Horizontal	Pass
2	4022.295	47.32	74.0	26.68	Peak	338.00	400	Horizontal	Pass
2**	4022.295	34.45	54.0	19.55	AV	338.00	400	Horizontal	Pass
3	7596.345	53.79	74.0	20.21	Peak	59.00	200	Horizontal	Pass
3**	7596.345	41.12	54.0	12.88	AV	59.00	200	Horizontal	Pass
4	12457.074	52.42	74.0	21.58	Peak	89.00	200	Horizontal	Pass
4**	12457.074	46.63	54.0	7.37	AV	89.00	200	Horizontal	Pass
5	16095.284	51.64	74.0	22.36	Peak	348.00	200	Horizontal	Pass
5**	16095.284	44.80	54.0	9.20	AV	348.00	200	Horizontal	Pass
6	17423.510	55.52	74.0	18.48	Peak	100.00	200	Horizontal	Pass
6**	17423.510	46.97	54.0	7.03	AV	100.00	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	1330.482	47.32	74.0	26.68	Peak	53.00	400	Vertical	Pass
1**	1330.482	34.51	54.0	19.49	AV	53.00	400	Vertical	Pass
2	1437.026	41.56	74.0	32.44	Peak	284.00	300	Vertical	Pass
2**	1437.026	35.53	54.0	18.47	AV	284.00	300	Vertical	Pass
3	4312.867	47.15	74.0	26.85	Peak	55.00	200	Vertical	Pass
3**	4312.867	39.95	54.0	14.05	AV	55.00	200	Vertical	Pass
4	7595.496	53.20	74.0	20.80	Peak	153.00	300	Vertical	Pass
4**	7595.496	41.17	54.0	12.83	AV	153.00	300	Vertical	Pass
5	12537.554	56.17	74.0	17.83	Peak	159.00	100	Vertical	Pass
5**	12537.554	42.87	54.0	11.13	AV	159.00	100	Vertical	Pass
6	15910.012	54.17	74.0	19.83	Peak	245.00	300	Vertical	Pass
6**	15910.012	45.64	54.0	8.36	AV	245.00	300	Vertical	Pass

11ac80, 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	1518.813	35.48	74.0	38.52	Peak	324.00	400	Horizontal	Pass
1**	1518.813	30.57	54.0	23.43	AV	324.00	400	Horizontal	Pass
2	4019.118	50.17	74.0	23.83	Peak	342.00	400	Horizontal	Pass
2**	4019.118	36.97	54.0	17.03	AV	342.00	400	Horizontal	Pass
3	7598.516	50.93	74.0	23.07	Peak	315.00	200	Horizontal	Pass
3**	7598.516	43.33	54.0	10.67	AV	315.00	200	Horizontal	Pass
4	12453.414	55.17	74.0	18.83	Peak	220.00	100	Horizontal	Pass
4**	12453.414	47.11	54.0	6.89	AV	220.00	100	Horizontal	Pass
5	16096.418	54.50	74.0	19.50	Peak	294.00	400	Horizontal	Pass
5**	16096.418	46.64	54.0	7.36	AV	294.00	400	Horizontal	Pass
6	17418.957	58.49	74.0	15.51	Peak	216.00	300	Horizontal	Pass
6**	17418.957	48.29	54.0	5.71	AV	216.00	300	Horizontal	Pass

11ac80, 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	1336.225	47.11	74.0	26.89	Peak	358.00	100	Vertical	Pass
1**	1336.225	33.38	54.0	20.62	AV	358.00	100	Vertical	Pass
2	1436.863	42.80	74.0	31.20	Peak	210.00	100	Vertical	Pass
2**	1436.863	38.79	54.0	15.21	AV	210.00	100	Vertical	Pass
3	4312.668	47.62	74.0	26.38	Peak	257.00	200	Vertical	Pass
3**	4312.668	40.93	54.0	13.07	AV	257.00	200	Vertical	Pass
4	7590.433	54.97	74.0	19.03	Peak	157.00	400	Vertical	Pass
4**	7590.433	46.08	54.0	7.92	AV	157.00	400	Vertical	Pass
5	12535.626	54.49	74.0	19.51	Peak	145.00	300	Vertical	Pass
5**	12535.626	41.01	54.0	12.99	AV	145.00	300	Vertical	Pass
6	15903.096	52.65	74.0	21.35	Peak	162.00	200	Vertical	Pass
6**	15903.096	47.66	54.0	6.34	AV	162.00	200	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

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

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

Aux. Antenna

Test Data

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	5148.917	60.29	74.0	13.71	Peak	96.00	200	Horizontal	Pass
1**	5148.917	46.55	54.0	7.45	AV	96.00	200	Horizontal	Pass
2	5150.000	61.09	74.0	12.91	Peak	108.00	200	Horizontal	Pass
2**	5150.000	46.71	54.0	7.29	AV	108.00	200	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	55.91	74.0	18.09	Peak	79.00	100	Horizontal	Pass
1**	5350.000	45.30	54.0	8.70	AV	79.00	100	Horizontal	Pass
2	5352.750	57.18	74.0	16.82	Peak	115.00	200	Horizontal	Pass
2**	5352.750	45.14	54.0	8.86	AV	115.00	200	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	5148.917	61.20	74.0	12.80	Peak	96.00	150	Horizontal	Pass
1**	5148.917	46.40	54.0	7.60	AV	96.00	150	Horizontal	Pass
2	5150.000	60.79	74.0	13.21	Peak	62.00	150	Horizontal	Pass
2**	5150.000	47.11	54.0	6.89	AV	62.00	150	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	55.77	74.0	18.23	Peak	35.00	100	Horizontal	Pass
1**	5350.000	45.19	54.0	8.81	AV	35.00	100	Horizontal	Pass
2	5362.100	57.32	74.0	16.68	Peak	226.00	200	Horizontal	Pass
2**	5362.100	44.71	54.0	9.29	AV	226.00	200	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	5145.667	60.37	74.0	13.63	Peak	96.00	100	Horizontal	Pass
1**	5145.667	47.12	54.0	6.88	AV	96.00	100	Horizontal	Pass
2	5150.000	60.26	74.0	13.74	Peak	95.00	100	Horizontal	Pass
2**	5150.000	49.48	54.0	4.52	AV	95.00	100	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	55.79	74.0	18.21	Peak	66.00	100	Horizontal	Pass
1**	5350.000	45.28	54.0	8.72	AV	66.00	100	Horizontal	Pass
2	5357.700	57.11	74.0	16.89	Peak	293.00	100	Horizontal	Pass
2**	5357.700	45.32	54.0	8.68	AV	293.00	100	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	5148.917	62.36	74.0	11.64	Peak	104.00	100	Horizontal	Pass
1**	5148.917	46.92	54.0	7.08	AV	104.00	100	Horizontal	Pass
2	5150.000	61.67	74.0	12.33	Peak	52.00	100	Horizontal	Pass
2**	5150.000	47.65	54.0	6.35	AV	52.00	100	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	55.59	74.0	18.41	Peak	59.00	150	Horizontal	Pass
1**	5350.000	45.32	54.0	8.68	AV	59.00	150	Horizontal	Pass
2	5378.783	56.75	74.0	17.25	Peak	125.00	150	Horizontal	Pass
2**	5378.783	45.31	54.0	8.69	AV	125.00	150	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	5148.917	62.18	74.0	11.82	Peak	103.00	200	Horizontal	Pass
1**	5148.917	48.26	54.0	5.74	AV	103.00	200	Horizontal	Pass
2	5150.000	63.00	74.0	11.00	Peak	92.00	100	Horizontal	Pass
2**	5150.000	50.92	54.0	3.08	AV	92.00	100	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	56.90	74.0	17.10	Peak	12.00	200	Horizontal	Pass
1**	5350.000	45.29	54.0	8.71	AV	12.00	200	Horizontal	Pass
2	5377.317	56.74	74.0	17.26	Peak	119.00	150	Horizontal	Pass
2**	5377.317	45.18	54.0	8.82	AV	119.00	150	Horizontal	Pass

U-NII-1 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5142.416	62.15	74.0	11.85	Peak	103.00	150	Horizontal	Pass
1**	5142.416	48.86	54.0	5.14	AV	103.00	150	Horizontal	Pass
2	5143.500	61.10	74.0	12.90	Peak	108.00	100	Horizontal	Pass
2**	5143.500	51.00	54.0	3.00	AV	108.00	100	Horizontal	Pass
3	5150.000	60.71	74.0	13.29	Peak	44.00	100	Horizontal	Pass
3**	5150.000	50.92	54.0	3.08	AV	44.00	100	Horizontal	Pass

U-NII-1 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	56.60	74.0	17.40	Peak	103.00	150	Horizontal	Pass
1**	5350.000	45.28	54.0	8.72	AV	103.00	150	Horizontal	Pass
2	5373.283	56.92	74.0	17.08	Peak	261.00	150	Horizontal	Pass
2**	5373.283	44.87	54.0	9.13	AV	261.00	150	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	5638.541	56.49	68.2	11.71	Peak	132.00	150	Horizontal	Pass
2	5650.000	56.29	68.2	11.91	Peak	66.00	200	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	5924.750	56.75	68.4	11.65	Peak	157.00	200	Horizontal	Pass
2	5940.500	57.38	68.2	10.82	Peak	360.00	100	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	5603.958	56.77	68.2	11.43	Peak	253.00	150	Horizontal	Pass
2	5650.000	57.02	68.2	11.18	Peak	200.00	150	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	5924.750	56.54	68.4	11.86	Peak	169.00	200	Horizontal	Pass
2	5940.750	57.47	68.2	10.73	Peak	286.00	200	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	5635.417	57.50	68.2	10.70	Peak	337.00	200	Horizontal	Pass
2	5650.000	56.28	68.2	11.92	Peak	28.00	150	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	5924.750	55.49	68.4	12.91	Peak	102.00	200	Horizontal	Pass
2	5928.750	56.86	68.2	11.34	Peak	358.00	200	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	5629.167	56.95	68.2	11.25	Peak	322.00	100	Horizontal	Pass
2	5650.000	55.50	68.2	12.70	Peak	64.00	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	5924.750	56.65	68.4	11.75	Peak	284.00	200	Horizontal	Pass
2	5998.500	57.36	68.2	10.84	Peak	360.00	200	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	5640.416	56.38	68.2	11.82	Peak	187.00	200	Horizontal	Pass
2	5650.000	55.11	68.2	13.09	Peak	332.00	200	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	5924.750	55.97	68.4	12.43	Peak	269.00	150	Horizontal	Pass
2	5994.000	58.03	68.2	10.17	Peak	253.00	200	Horizontal	Pass

U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5648.750	64.42	68.2	3.78	Peak	60.00	200	Horizontal	Pass
2	5650.000	62.17	68.2	6.03	Peak	65.00	200	Horizontal	Pass

U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	61.20	68.4	7.20	Peak	53.00	200	Horizontal	Pass
2	5931.750	61.88	68.2	6.32	Peak	53.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2551081-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2551081-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2551081-AI.PDF”.

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