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CNAS L6791

TEST REPORT

Applicant: Shenzhen Hollyland Technology Co., Ltd
Address: 8F, Building 5D, Skyworth Innovation Valley,
Tangtou Road. Shiyan Street, Baoan District
Shenzhen, China
Equipment Type: WIRELESS VIDEO TRANSMISSION SYSTEM
Model Name: Pyro 5
Brand Name: HOLLYLAND
FCC ID: 2ADZC-V8830
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Feb. 28, 2025
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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie Zhu**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 18, 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	Shenzhen Hollyland Technology Co., Ltd
Address	8F, Building 5D, Skyworth Innovation Valley, Tangtou Road. Shiyan Street, Baoan District Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Shenzhen Hollyland Technology Co., Ltd
Address	8F, Building 5D, Skyworth Innovation Valley, Tangtou Road. Shiyan Street, Baoan District Shenzhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	WIRELESS VIDEO TRANSMISSION SYSTEM
Model Name Under Test	Pyro 5
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	V8830-MB-V28
Software Version	V1.0.1.3
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40)
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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	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	
Maximum Output Power	U-NII-1: 30.41 mW U-NII-3: 36.90 mW	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac	
Antenna Type	SISO- Antenna 0 (Only RX)	PCB Antenna
	SISO- Antenna 1	Dipole Antenna
	SISO- Antenna 2	
Antenna Gain	SISO- Antenna 0 (Only RX)	U-NII-1: 5150 MHz to 5250 MHz: 5.04 dBi U-NII-3: 5725 MHz to 5850 MHz: 6.29 dBi
	SISO- Antenna 1	U-NII-1: 5150 MHz to 5250 MHz: 2.48 dBi
	SISO- Antenna 2	U-NII-3: 5725 MHz to 5850 MHz: 2.71 dBi
Total directional gain	For power spectral density (PSD) measureme	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 5.49 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.72 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated:

	nts	U-NII-1: 5150 MHz to 5250 MHz: 2.48 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.71 dBi Formulas: Directional gain = G_{ANT}
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 5.49 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.72 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 2.48 dBi U-NII-3: 5725 MHz to 5850 MHz: 2.71 dBi Formulas: Directional gain = G_{ANT}
About the Product		The equipment is WIRELESS VIDEO TRANSMISSION SYSTEM, intended for used with information technology equipment.

Mode	Antenna		
	SISO-Antenna 1	SISO-Antenna 2	MIMO
802.11a	√	√	√
802.11n20	√	√	√
802.11n40	√	√	√
802.11ac20	√	√	√
802.11ac40	√	√	√
Note: All the configurations were tested, but only the worst data was shown in this report.			

2.5 Channel List

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

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

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

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

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
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
6 dB 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
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
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
Band Edge (Restricted-band)	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

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

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

3.2 Test Verdict

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	38% to 60%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.6℃ to +24.5℃
Working Voltage of the EUT	NV (Normal Voltage)	12 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2024.07.04	2025.07.03
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	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-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	Agilent	N9038A	MY55330120	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11
Amplifier	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27
Anechoic Chamber	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	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%

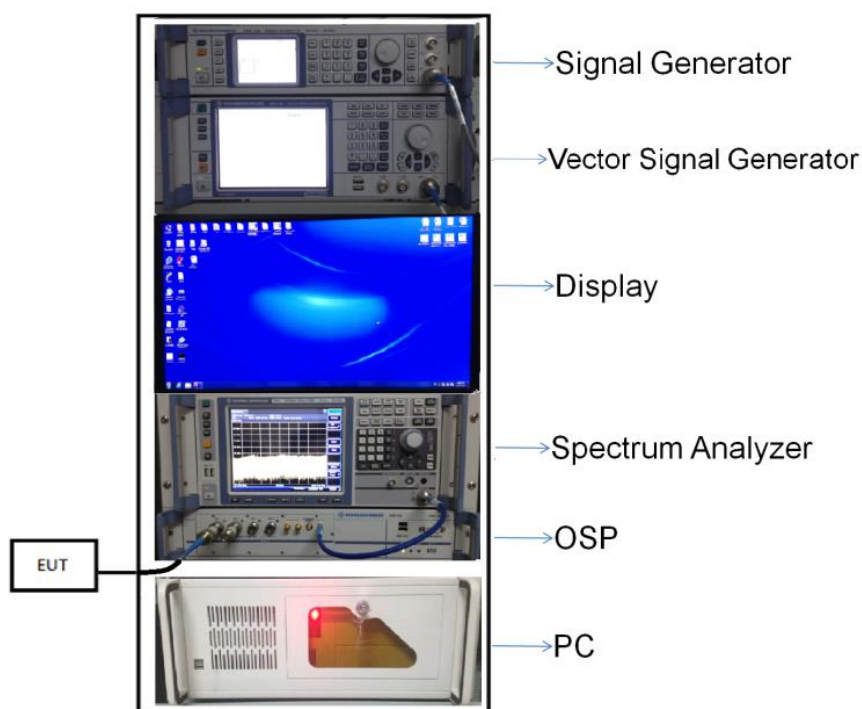
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

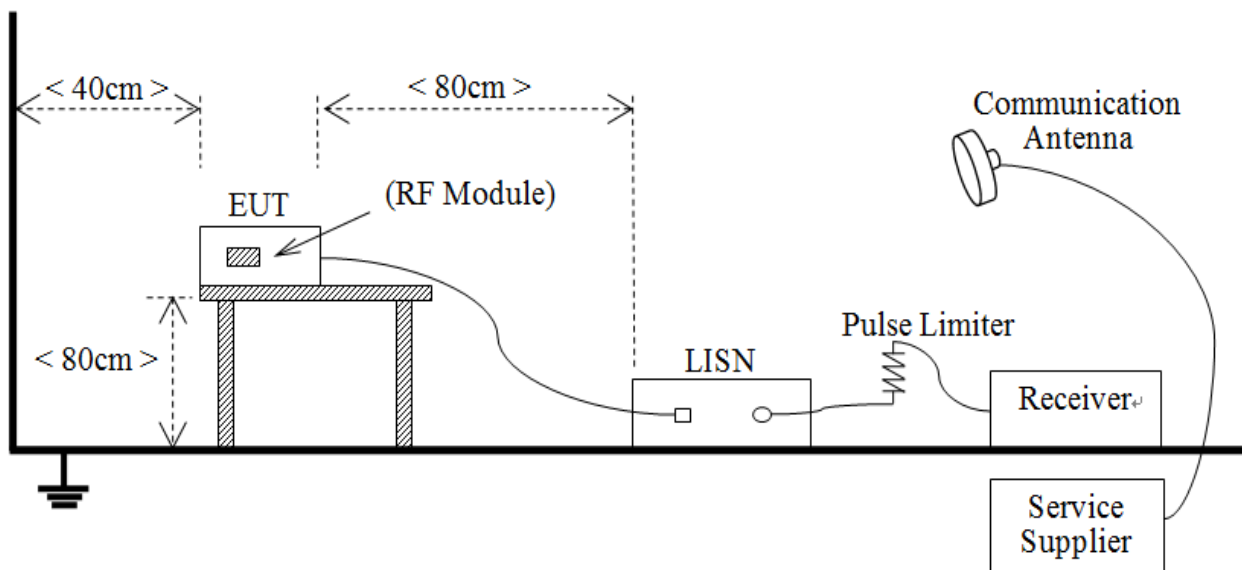
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



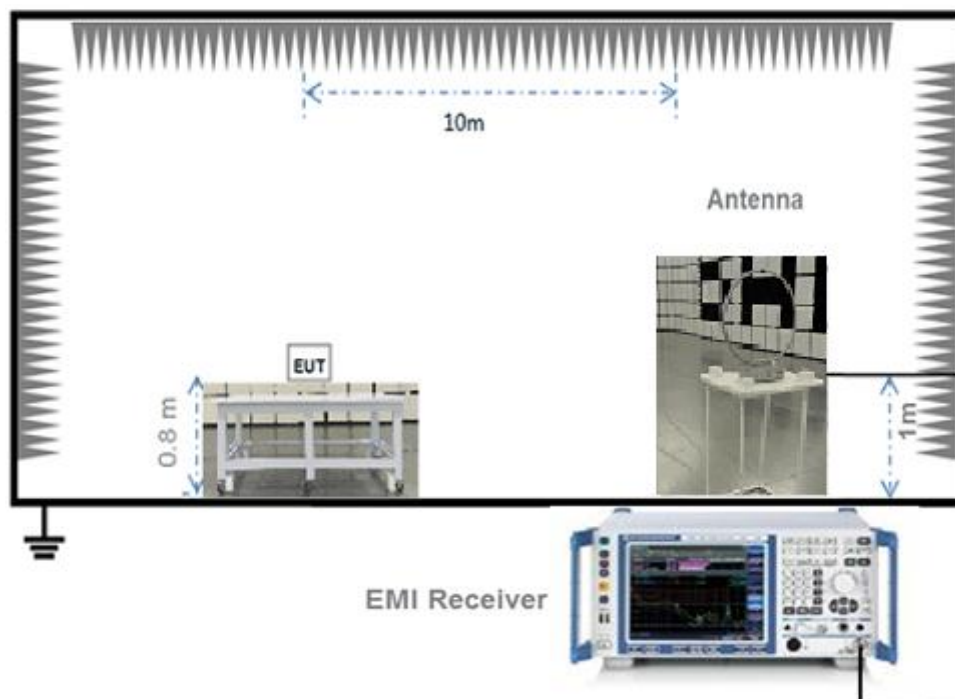
(Diagram 1)

4.5.2 For AC Power Supply Port Test



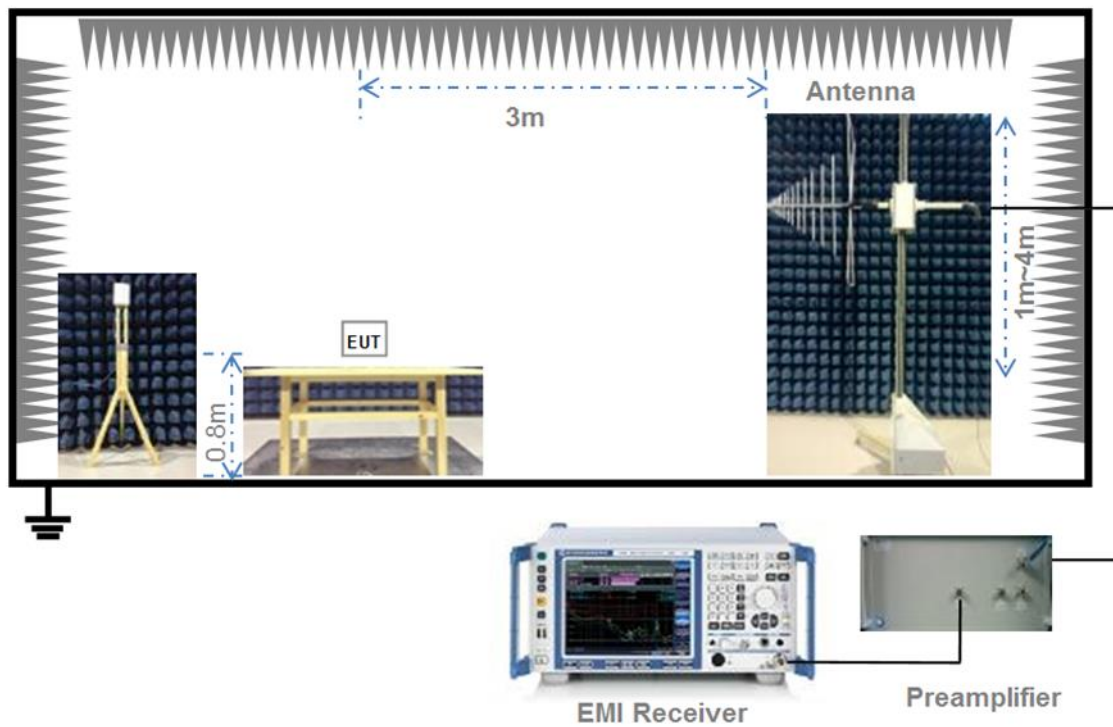
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



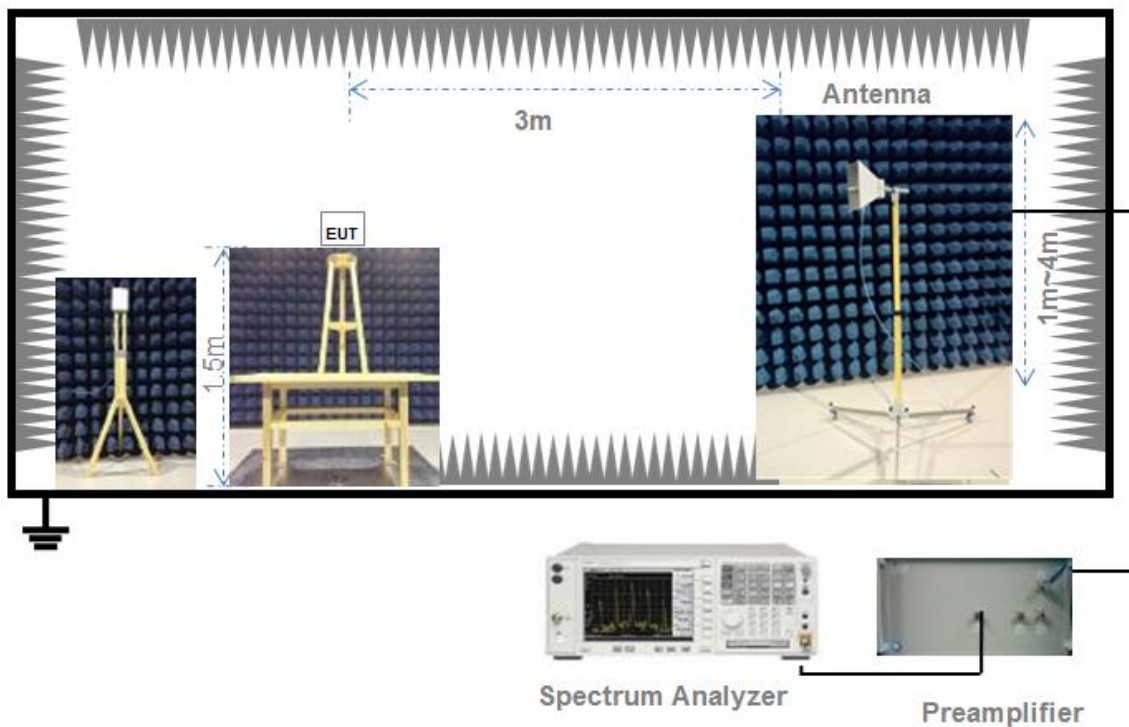
(Diagram 3)

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

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

Note ²: The tighter limit applies at the band edge.

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

- 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).
- 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).
- 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).
- 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	2.07	2.19	94.38%	0.25
11n(HT20)/11ac(VHT20)	1.93	2.11	91.60%	0.38
11n(HT40)/11ac(VHT40)	0.93	1.18	78.79%	1.04

Test DataConducted PowerSISO-Antenna 1

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	14.58	28.71	250	Pass
11a	CH44	14.25	26.61	250	Pass
11a	CH48	14.35	27.23	250	Pass
11n(HT20)	CH36	14.25	26.61	250	Pass
11n(HT20)	CH44	14.47	27.99	250	Pass
11n(HT20)	CH48	14.42	27.67	250	Pass
11n(HT40)	CH38	14.56	28.58	250	Pass
11n(HT40)	CH46	14.49	28.12	250	Pass
11ac(VHT20)	CH36	14.69	29.44	250	Pass
11ac(VHT20)	CH44	14.41	27.61	250	Pass
11ac(VHT20)	CH48	14.73	29.72	250	Pass
11ac(VHT40)	CH38	14.82	30.34	250	Pass
11ac(VHT40)	CH46	14.72	29.65	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.26	26.67	1000	Pass
11a	CH157	14.25	26.61	1000	Pass
11a	CH165	14.13	25.88	1000	Pass
11n(HT20)	CH149	14.33	27.10	1000	Pass
11n(HT20)	CH157	14.46	27.93	1000	Pass
11n(HT20)	CH165	14.47	27.99	1000	Pass
11n(HT40)	CH151	14.46	27.93	1000	Pass
11n(HT40)	CH159	14.51	28.25	1000	Pass
11ac(VHT20)	CH149	14.56	28.58	1000	Pass
11ac(VHT20)	CH157	14.46	27.93	1000	Pass
11ac(VHT20)	CH165	14.65	29.17	1000	Pass
11ac(VHT40)	CH151	14.51	28.25	1000	Pass
11ac(VHT40)	CH159	14.48	28.05	1000	Pass

SISO-Antenna 2

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	14.43	27.73	250	Pass
11a	CH44	14.83	30.41	250	Pass
11a	CH48	14.76	29.92	250	Pass
11n(HT20)	CH36	14.37	27.35	250	Pass
11n(HT20)	CH44	14.64	29.11	250	Pass
11n(HT20)	CH48	14.83	30.41	250	Pass
11n(HT40)	CH38	14.54	28.44	250	Pass
11n(HT40)	CH46	14.55	28.51	250	Pass
11ac(VHT20)	CH36	14.32	27.04	250	Pass
11ac(VHT20)	CH44	14.74	29.79	250	Pass
11ac(VHT20)	CH48	14.69	29.44	250	Pass
11ac(VHT40)	CH38	14.41	27.61	250	Pass
11ac(VHT40)	CH46	14.14	25.94	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.37	27.35	1000	Pass
11a	CH157	14.23	26.49	1000	Pass
11a	CH165	14.24	26.55	1000	Pass
11n(HT20)	CH149	14.66	29.24	1000	Pass
11n(HT20)	CH157	14.28	26.79	1000	Pass
11n(HT20)	CH165	14.23	26.49	1000	Pass
11n(HT40)	CH151	14.27	26.73	1000	Pass
11n(HT40)	CH159	14.51	28.25	1000	Pass
11ac(VHT20)	CH149	14.52	28.31	1000	Pass
11ac(VHT20)	CH157	14.27	26.73	1000	Pass
11ac(VHT20)	CH165	14.22	26.42	1000	Pass
11ac(VHT40)	CH151	14.72	29.65	1000	Pass
11ac(VHT40)	CH159	14.49	28.12	1000	Pass

MIMO-Antenna 1

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	11.41	13.84	250	Pass
11a	CH44	11.19	13.15	250	Pass
11a	CH48	11.26	13.37	250	Pass
11n(HT20)	CH36	11.23	13.27	250	Pass
11n(HT20)	CH44	11.45	13.96	250	Pass
11n(HT20)	CH48	11.34	13.61	250	Pass
11n(HT40)	CH38	11.28	13.43	250	Pass
11n(HT40)	CH46	11.54	14.26	250	Pass
11ac(VHT20)	CH36	11.27	13.40	250	Pass
11ac(VHT20)	CH44	11.31	13.52	250	Pass
11ac(VHT20)	CH48	11.42	13.87	250	Pass
11ac(VHT40)	CH38	11.16	13.06	250	Pass
11ac(VHT40)	CH46	11.34	13.61	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	11.61	14.49	1000	Pass
11a	CH157	11.70	14.79	1000	Pass
11a	CH165	11.62	14.52	1000	Pass
11n(HT20)	CH149	11.93	15.60	1000	Pass
11n(HT20)	CH157	12.02	15.92	1000	Pass
11n(HT20)	CH165	11.72	14.86	1000	Pass
11n(HT40)	CH151	12.67	18.49	1000	Pass
11n(HT40)	CH159	12.58	18.11	1000	Pass
11ac(VHT20)	CH149	11.95	15.67	1000	Pass
11ac(VHT20)	CH157	11.86	15.35	1000	Pass
11ac(VHT20)	CH165	11.76	15.00	1000	Pass
11ac(VHT40)	CH151	12.75	18.84	1000	Pass
11ac(VHT40)	CH159	12.66	18.45	1000	Pass

MIMO-Antenna 2

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	11.41	13.84	250	Pass
11a	CH44	11.39	13.77	250	Pass
11a	CH48	11.26	13.37	250	Pass
11n(HT20)	CH36	11.23	13.27	250	Pass
11n(HT20)	CH44	11.65	14.62	250	Pass
11n(HT20)	CH48	11.54	14.26	250	Pass
11n(HT40)	CH38	11.08	12.82	250	Pass
11n(HT40)	CH46	11.24	13.30	250	Pass
11ac(VHT20)	CH36	11.07	12.79	250	Pass
11ac(VHT20)	CH44	11.11	12.91	250	Pass
11ac(VHT20)	CH48	11.42	13.87	250	Pass
11ac(VHT40)	CH38	11.36	13.68	250	Pass
11ac(VHT40)	CH46	11.24	13.30	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	11.41	13.84	1000	Pass
11a	CH157	11.80	15.14	1000	Pass
11a	CH165	11.72	14.86	1000	Pass
11n(HT20)	CH149	12.13	16.33	1000	Pass
11n(HT20)	CH157	11.62	14.52	1000	Pass
11n(HT20)	CH165	11.52	14.19	1000	Pass
11n(HT40)	CH151	12.27	16.87	1000	Pass
11n(HT40)	CH159	12.38	17.30	1000	Pass
11ac(VHT20)	CH149	11.65	14.62	1000	Pass
11ac(VHT20)	CH157	11.56	14.32	1000	Pass
11ac(VHT20)	CH165	11.46	14.00	1000	Pass
11ac(VHT40)	CH151	12.55	17.99	1000	Pass
11ac(VHT40)	CH159	12.66	18.45	1000	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	14.42	27.67	250	Pass
11a	CH44	14.30	26.92	250	Pass
11a	CH48	14.27	26.73	250	Pass
11n(HT20)	CH36	14.24	26.55	250	Pass
11n(HT20)	CH44	14.56	28.59	250	Pass
11n(HT20)	CH48	14.45	27.87	250	Pass
11n(HT40)	CH38	14.19	26.25	250	Pass
11n(HT40)	CH46	14.40	27.56	250	Pass
11ac(VHT20)	CH36	14.18	26.19	250	Pass
11ac(VHT20)	CH44	14.22	26.43	250	Pass
11ac(VHT20)	CH48	14.43	27.74	250	Pass
11ac(VHT40)	CH38	14.27	26.74	250	Pass
11ac(VHT40)	CH46	14.30	26.92	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.52	28.32	1000	Pass
11a	CH157	14.76	29.93	1000	Pass
11a	CH165	14.68	29.38	1000	Pass
11n(HT20)	CH149	15.04	31.93	1000	Pass
11n(HT20)	CH157	14.83	30.44	1000	Pass
11n(HT20)	CH165	14.63	29.05	1000	Pass
11n(HT40)	CH151	15.48	35.36	1000	Pass
11n(HT40)	CH159	15.49	35.41	1000	Pass
11ac(VHT20)	CH149	14.81	30.29	1000	Pass
11ac(VHT20)	CH157	14.72	29.67	1000	Pass
11ac(VHT20)	CH165	14.62	28.99	1000	Pass
11ac(VHT40)	CH151	15.66	36.83	1000	Pass
11ac(VHT40)	CH159	15.67	36.90	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2530227-602 Data Part 1.pdf”.

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

Test Data

SISO-Antenna 1

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	16.33	16.34
11a	CH44	16.30	16.30
11a	CH48	16.30	16.31
11n(HT20)	CH36	17.48	17.49
11n(HT20)	CH44	17.49	17.49
11n(HT20)	CH48	17.48	17.48
11n(HT40)	CH38	36.13	36.13
11n(HT40)	CH46	36.05	36.05
11ac(VHT20)	CH36	17.48	17.50
11ac(VHT20)	CH44	17.48	17.50
11ac(VHT20)	CH48	17.48	17.49
11ac(VHT40)	CH38	36.16	36.15
11ac(VHT40)	CH46	36.07	36.08

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	16.32	16.33
11a	CH157	16.32	16.32
11a	CH165	16.32	16.33
11n(HT20)	CH149	17.48	17.49
11n(HT20)	CH157	17.50	17.51
11n(HT20)	CH165	17.50	17.50
11n(HT40)	CH151	36.08	36.09
11n(HT40)	CH159	36.11	36.11
11ac(VHT20)	CH149	17.49	17.49
11ac(VHT20)	CH157	17.50	17.50
11ac(VHT20)	CH165	17.49	17.50
11ac(VHT40)	CH151	36.12	36.12
11ac(VHT40)	CH159	36.12	36.13

A.3 6 dB Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2530227-602 Data Part 2.pdf”.

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

Test Data

SISO-Antenna 1

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.50	500.00	Pass
11a	CH157	16.50	500.00	Pass
11a	CH165	16.50	500.00	Pass
11n(HT20)	CH149	17.50	500.00	Pass
11n(HT20)	CH157	17.70	500.00	Pass
11n(HT20)	CH165	17.20	500.00	Pass
11n(HT40)	CH151	35.30	500.00	Pass
11n(HT40)	CH159	35.30	500.00	Pass
11ac(VHT20)	CH149	17.70	500.00	Pass
11ac(VHT20)	CH157	17.70	500.00	Pass
11ac(VHT20)	CH165	17.10	500.00	Pass
11ac(VHT40)	CH151	35.30	500.00	Pass
11ac(VHT40)	CH159	35.30	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2530227-602 Data Part 3.pdf”.

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

Test Data

SISO-Antenna 1

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	3.12	11.00	Pass
11a	CH44	2.79	11.00	Pass
11a	CH48	2.97	11.00	Pass
11n(HT20)	CH36	3.17	11.00	Pass
11n(HT20)	CH44	3.45	11.00	Pass
11n(HT20)	CH48	3.24	11.00	Pass
11n(HT40)	CH38	0.89	11.00	Pass
11n(HT40)	CH46	0.57	11.00	Pass
11ac(VHT20)	CH36	3.03	11.00	Pass
11ac(VHT20)	CH44	2.84	11.00	Pass
11ac(VHT20)	CH48	2.60	11.00	Pass
11ac(VHT40)	CH38	0.10	11.00	Pass
11ac(VHT40)	CH46	-0.19	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	-1.17	30.00	Pass
11a	CH157	-1.17	30.00	Pass
11a	CH165	-0.42	30.00	Pass
11n(HT20)	CH149	-0.86	30.00	Pass
11n(HT20)	CH157	-0.62	30.00	Pass
11n(HT20)	CH165	0.34	30.00	Pass
11n(HT40)	CH151	-3.07	30.00	Pass
11n(HT40)	CH159	-2.60	30.00	Pass
11ac(VHT20)	CH149	-0.24	30.00	Pass
11ac(VHT20)	CH157	-0.13	30.00	Pass
11ac(VHT20)	CH165	0.61	30.00	Pass
11ac(VHT40)	CH151	-3.26	30.00	Pass
11ac(VHT40)	CH159	-3.25	30.00	Pass

A.5 Conducted Emissions

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

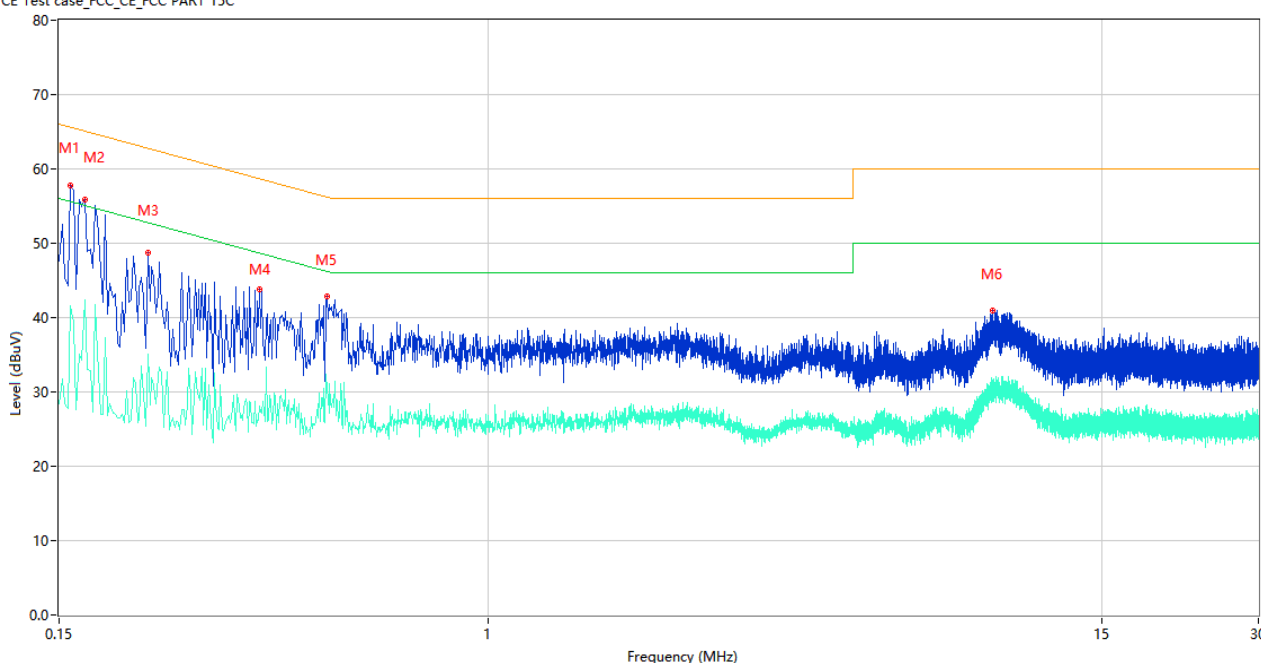
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

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

Test Data and Plots

PHASE L

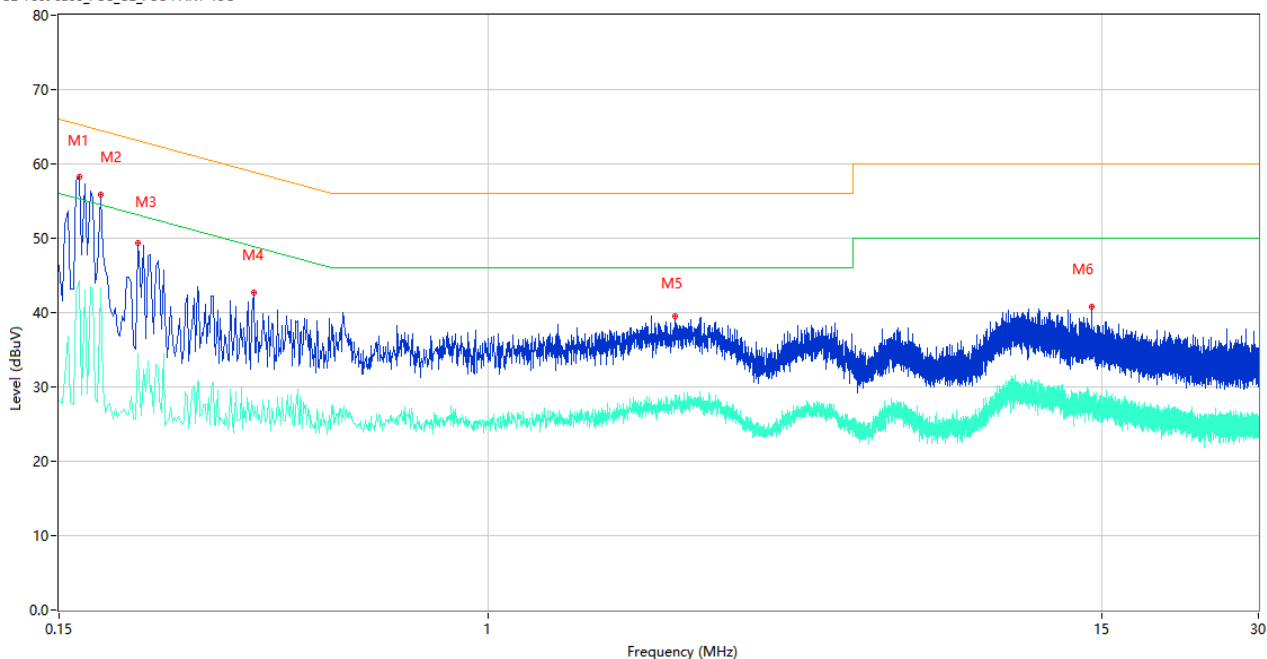
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	57.79	9.78	65.57	7.78	Peak	L	Pass
1**	0.158	41.56	9.78	55.57	14.01	AV	L	Pass
2	0.168	55.82	9.78	65.06	9.24	Peak	L	Pass
2**	0.168	42.33	9.78	55.06	12.73	AV	L	Pass
3	0.222	48.67	9.77	62.74	14.07	Peak	L	Pass
3**	0.222	35.14	9.77	52.74	17.60	AV	L	Pass
4	0.364	43.83	10.70	58.64	14.81	Peak	L	Pass
4**	0.364	28.13	10.70	48.64	20.51	AV	L	Pass
5	0.490	42.85	9.99	56.17	13.32	Peak	L	Pass
5**	0.490	30.34	9.99	46.17	15.83	AV	L	Pass
6	9.266	40.92	10.31	60.00	19.08	Peak	L	Pass
6**	9.266	30.19	10.31	50.00	19.81	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	0.164	58.22	9.78	65.26	7.04	Peak	N	Pass
1**	0.164	44.32	9.78	55.26	10.94	AV	N	Pass
2	0.180	55.83	9.78	64.49	8.66	Peak	N	Pass
2**	0.180	43.34	9.78	54.49	11.15	AV	N	Pass
3	0.212	49.32	9.77	63.13	13.81	Peak	N	Pass
3**	0.212	34.40	9.77	53.13	18.73	AV	N	Pass
4	0.354	42.71	10.74	58.87	16.16	Peak	N	Pass
4**	0.354	25.98	10.74	48.87	22.89	AV	N	Pass
5	2.282	39.56	10.26	56.00	16.44	Peak	N	Pass
5**	2.282	28.97	10.26	46.00	17.03	AV	N	Pass
6	14.398	40.81	10.53	60.00	19.19	Peak	N	Pass
6**	14.398	28.29	10.53	50.00	21.71	AV	N	Pass

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

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

Note²: For the test data above 1 GHz, According the ANSI C63.4, 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.

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

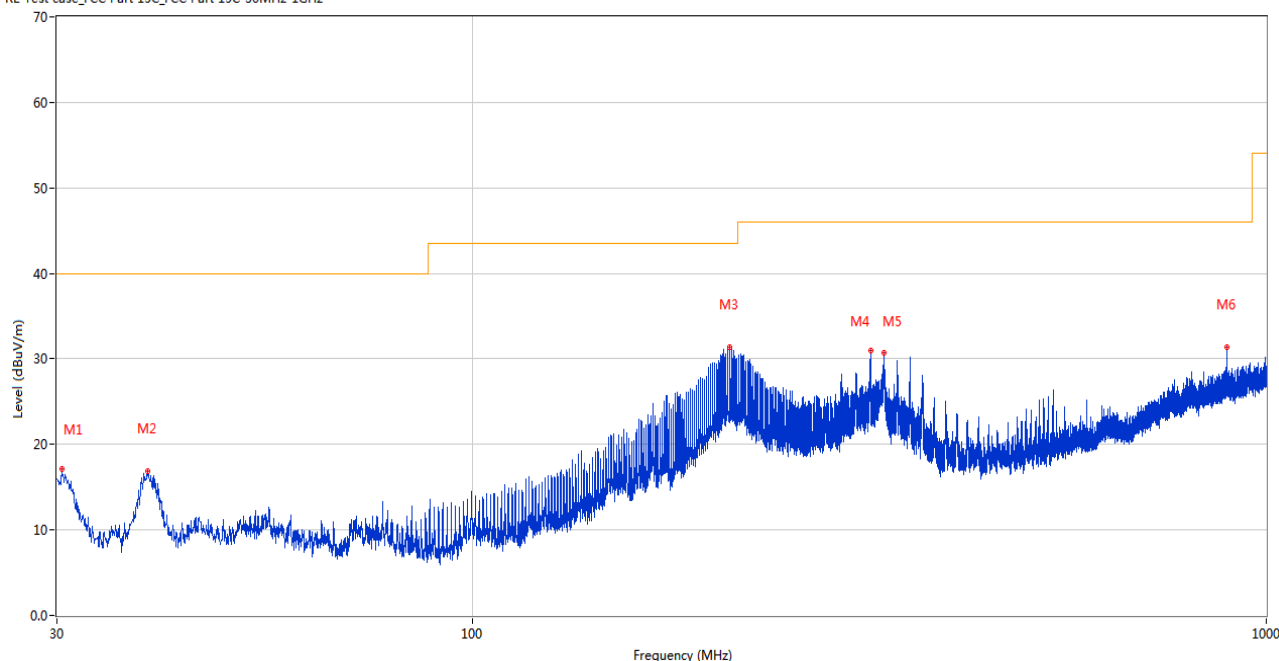
Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Note⁵: For Multiple transmitter output, the quantity $10 \log (NANT)$ dB is added to each spectrum value before comparing to the emission limit. When testing out-of-band and spurious emissions against relative emission limits, tests may be performed on each output individually without summing or adding $10 \log (NANT)$ if the measurements are made relative to the in-band emissions on the individual outputs.

Test Data and Plots

30 MHz to 1 GHz, ANT H

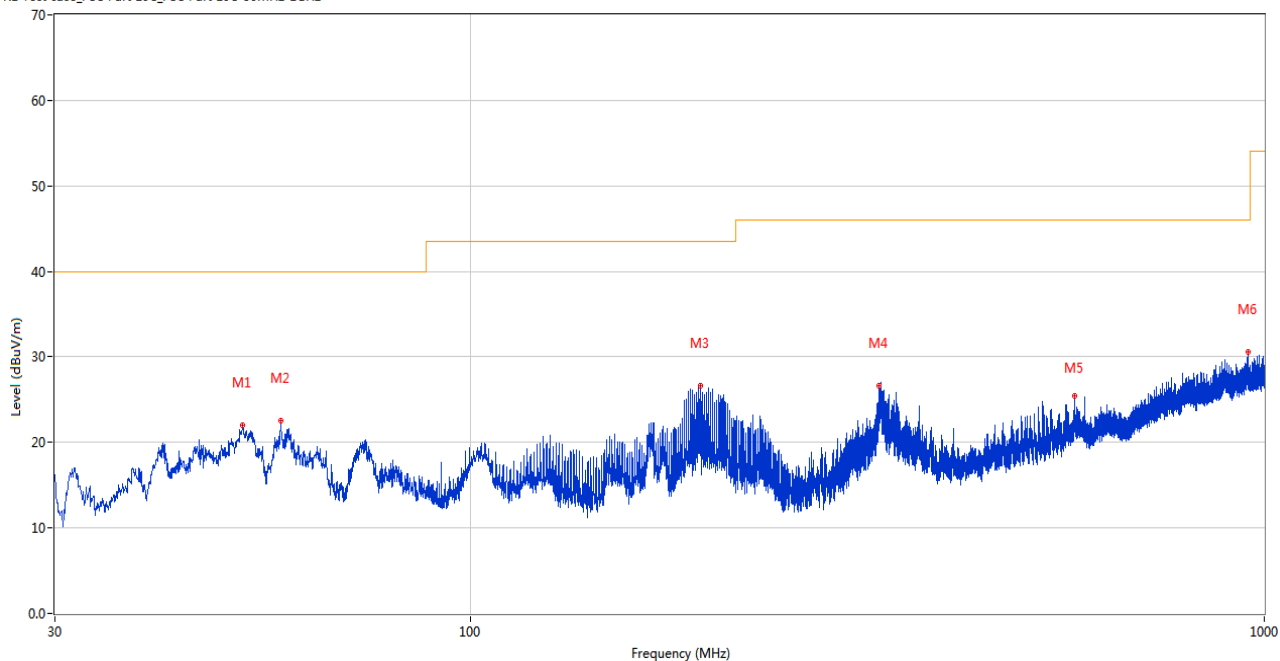
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.436	17.18	-27.66	40.0	22.82	Peak	112.00	100	Horizontal	Pass
2	39.069	16.84	-26.79	40.0	23.16	Peak	224.00	100	Horizontal	Pass
3	210.905	31.35	-28.78	43.5	12.15	Peak	282.00	100	Horizontal	Pass
4	317.508	31.03	-24.03	46.0	14.97	Peak	316.00	100	Horizontal	Pass
5	330.215	30.65	-23.38	46.0	15.35	Peak	89.00	100	Horizontal	Pass
6	891.020	31.42	-10.55	46.0	14.58	Peak	28.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	51.728	22.05	-26.62	40.0	17.95	Peak	64.00	100	Vertical	Pass
2	57.791	22.55	-27.54	40.0	17.45	Peak	115.00	100	Vertical	Pass
3	195.191	26.62	-28.58	43.5	16.88	Peak	329.00	100	Vertical	Pass
4	327.547	26.58	-23.56	46.0	19.42	Peak	108.00	100	Vertical	Pass
5	577.711	25.48	-16.58	46.0	20.52	Peak	247.00	100	Vertical	Pass
6	953.440	30.62	-9.90	46.0	15.38	Peak	25.00	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.

SISO-Antenna 1

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	1441.000	43.68	74.0	30.32	Peak	156.00	200	Horizontal	Pass
1**	1441.000	36.71	54.0	17.29	AV	156.00	200	Horizontal	Pass
2	4380.000	50.61	74.0	23.39	Peak	20.00	400	Horizontal	Pass
2**	4380.000	41.38	54.0	12.62	AV	20.00	400	Horizontal	Pass
3	5185.800	101.88	--	--	Peak	304.00	150	Horizontal	N/A
3**	5185.800	94.74	--	--	AV	304.00	150	Horizontal	N/A
4	7442.750	50.57	74.0	23.43	Peak	279.00	100	Horizontal	Pass
4**	7442.750	41.85	54.0	12.15	AV	279.00	100	Horizontal	Pass
5	11818.500	51.90	74.0	22.10	Peak	360.00	200	Horizontal	Pass
5**	11818.500	42.11	54.0	11.89	AV	360.00	200	Horizontal	Pass
6	15834.375	54.62	74.0	19.38	Peak	270.00	400	Horizontal	Pass
6**	15834.375	45.88	54.0	8.12	AV	270.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.300	47.04	74.0	26.96	Peak	108.00	150	Vertical	Pass
1**	1331.300	39.16	54.0	14.84	AV	108.00	150	Vertical	Pass
2	4389.200	50.49	74.0	23.51	Peak	75.00	100	Vertical	Pass
2**	4389.200	42.35	54.0	11.65	AV	75.00	100	Vertical	Pass
3	5181.800	104.45	--	--	Peak	187.00	200	Vertical	N/A
3**	5181.800	96.17	--	--	AV	187.00	200	Vertical	N/A
4	7447.063	50.35	74.0	23.65	Peak	344.00	400	Vertical	Pass
4**	7447.063	41.87	54.0	12.13	AV	344.00	400	Vertical	Pass
5	12483.200	52.32	74.0	21.68	Peak	360.00	200	Vertical	Pass
5**	12483.200	41.80	54.0	12.20	AV	360.00	200	Vertical	Pass
6	15499.950	55.43	74.0	18.57	Peak	17.00	100	Vertical	Pass
6**	15499.950	44.75	54.0	9.25	AV	17.00	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	1437.600	43.66	74.0	30.34	Peak	159.00	300	Horizontal	Pass
1**	1437.600	36.86	54.0	17.14	AV	159.00	300	Horizontal	Pass
2	4004.400	50.38	74.0	23.62	Peak	30.00	200	Horizontal	Pass
2**	4004.400	41.19	54.0	12.81	AV	30.00	200	Horizontal	Pass
3	5223.800	101.79	--	--	Peak	303.00	100	Horizontal	N/A
3**	5223.800	94.11	--	--	AV	303.00	100	Horizontal	N/A
4	7505.138	51.20	74.0	22.80	Peak	209.00	100	Horizontal	Pass
4**	7505.138	40.91	54.0	13.09	AV	209.00	100	Horizontal	Pass
5	10921.213	52.22	74.0	21.78	Peak	0.00	200	Horizontal	Pass
5**	10921.213	43.32	54.0	10.68	AV	0.00	200	Horizontal	Pass
6	15490.500	54.65	74.0	19.35	Peak	114.00	400	Horizontal	Pass
6**	15490.500	45.58	54.0	8.42	AV	114.00	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	1438.300	40.99	74.0	33.01	Peak	25.00	300	Vertical	Pass
1**	1438.300	33.30	54.0	20.70	AV	25.00	300	Vertical	Pass
2	4001.600	50.18	74.0	23.82	Peak	359.00	400	Vertical	Pass
2**	4001.600	40.57	54.0	13.43	AV	359.00	400	Vertical	Pass
3	5221.800	105.60	--	--	Peak	179.00	100	Vertical	N/A
3**	5221.800	97.77	--	--	AV	179.00	100	Vertical	N/A
4	7445.913	51.09	74.0	22.91	Peak	178.00	300	Vertical	Pass
4**	7445.913	41.65	54.0	12.35	AV	178.00	300	Vertical	Pass
5	10916.901	52.55	74.0	21.45	Peak	360.00	150	Vertical	Pass
5**	10916.901	43.46	54.0	10.54	AV	360.00	150	Vertical	Pass
6	15845.401	55.30	74.0	18.70	Peak	17.00	100	Vertical	Pass
6**	15845.401	45.79	54.0	8.21	AV	17.00	100	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	1441.200	43.88	74.0	30.12	Peak	155.00	300	Horizontal	Pass
1**	1441.200	36.83	54.0	17.17	AV	155.00	300	Horizontal	Pass
2	4207.600	50.40	74.0	23.60	Peak	111.00	200	Horizontal	Pass
2**	4207.600	40.73	54.0	13.27	AV	111.00	200	Horizontal	Pass
3	5244.600	101.57	--	--	Peak	294.00	200	Horizontal	N/A
3**	5244.600	94.05	--	--	AV	294.00	200	Horizontal	N/A
4	7444.763	50.37	74.0	23.63	Peak	0.00	400	Horizontal	Pass
4**	7444.763	41.54	54.0	12.46	AV	0.00	400	Horizontal	Pass
5	10932.425	51.89	74.0	22.11	Peak	245.00	100	Horizontal	Pass
5**	10932.425	42.69	54.0	11.31	AV	245.00	100	Horizontal	Pass
6	16099.500	55.36	74.0	18.64	Peak	269.00	400	Horizontal	Pass
6**	16099.500	45.39	54.0	8.61	AV	269.00	400	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	1435.200	41.31	74.0	32.69	Peak	184.00	200	Vertical	Pass
1**	1435.200	32.26	54.0	21.74	AV	184.00	200	Vertical	Pass
2	4286.000	50.25	74.0	23.75	Peak	313.00	300	Vertical	Pass
2**	4286.000	41.85	54.0	12.15	AV	313.00	300	Vertical	Pass
3	5243.000	105.09	--	--	Peak	110.00	100	Vertical	N/A
3**	5243.000	97.15	--	--	AV	110.00	100	Vertical	N/A
4	7453.675	49.95	74.0	24.05	Peak	360.00	200	Vertical	Pass
4**	7453.675	42.23	54.0	11.77	AV	360.00	200	Vertical	Pass
5	11503.112	52.62	74.0	21.38	Peak	278.00	100	Vertical	Pass
5**	11503.112	42.43	54.0	11.57	AV	278.00	100	Vertical	Pass
6	15501.000	54.67	74.0	19.33	Peak	175.00	100	Vertical	Pass
6**	15501.000	45.30	54.0	8.70	AV	175.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1440.500	43.73	74.0	30.27	Peak	160.00	300	Horizontal	Pass
1**	1440.500	34.86	54.0	19.14	AV	160.00	300	Horizontal	Pass
2	3778.000	50.46	74.0	23.54	Peak	100.00	400	Horizontal	Pass
2**	3778.000	39.83	54.0	14.17	AV	100.00	400	Horizontal	Pass
3	5173.400	101.90	--	--	Peak	31.00	100	Horizontal	N/A
3**	5173.400	93.72	--	--	AV	31.00	100	Horizontal	N/A
4	7452.237	50.50	74.0	23.50	Peak	295.00	100	Horizontal	Pass
4**	7452.237	41.83	54.0	12.17	AV	295.00	100	Horizontal	Pass
5	10920.350	51.92	74.0	22.08	Peak	295.00	100	Horizontal	Pass
5**	10920.350	42.98	54.0	11.02	AV	295.00	100	Horizontal	Pass
6	15852.225	55.31	74.0	18.69	Peak	56.00	100	Horizontal	Pass
6**	15852.225	46.04	54.0	7.96	AV	56.00	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	1437.400	41.44	74.0	32.56	Peak	178.00	400	Vertical	Pass
1**	1437.400	33.96	54.0	20.04	AV	178.00	400	Vertical	Pass
2	4376.800	50.65	74.0	23.35	Peak	89.00	200	Vertical	Pass
2**	4376.800	40.76	54.0	13.24	AV	89.00	200	Vertical	Pass
3	5178.400	103.00	--	--	Peak	225.00	100	Vertical	N/A
3**	5178.400	95.72	--	--	AV	225.00	100	Vertical	N/A
4	7340.687	50.77	74.0	23.23	Peak	195.00	400	Vertical	Pass
4**	7340.687	41.13	54.0	12.87	AV	195.00	400	Vertical	Pass
5	11946.724	52.06	74.0	21.94	Peak	330.00	200	Vertical	Pass
5**	11946.724	42.48	54.0	11.52	AV	330.00	200	Vertical	Pass
6	15820.987	54.87	74.0	19.13	Peak	290.00	400	Vertical	Pass
6**	15820.987	45.71	54.0	8.29	AV	290.00	400	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	1439.400	44.03	74.0	29.97	Peak	157.00	100	Horizontal	Pass
1**	1439.400	35.80	54.0	18.20	AV	157.00	100	Horizontal	Pass
2	4391.600	50.96	74.0	23.04	Peak	315.00	100	Horizontal	Pass
2**	4391.600	41.74	54.0	12.26	AV	315.00	100	Horizontal	Pass
3	5214.600	101.83	--	--	Peak	42.00	100	Horizontal	N/A
3**	5214.600	94.32	--	--	AV	42.00	100	Horizontal	N/A
4	7446.488	50.65	74.0	23.35	Peak	58.00	200	Horizontal	Pass
4**	7446.488	41.67	54.0	12.33	AV	58.00	200	Horizontal	Pass
5	11318.825	52.84	74.0	21.16	Peak	75.00	150	Horizontal	Pass
5**	11318.825	42.43	54.0	11.57	AV	75.00	150	Horizontal	Pass
6	15712.838	54.85	74.0	19.15	Peak	36.00	200	Horizontal	Pass
6**	15712.838	44.16	54.0	9.84	AV	36.00	200	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	1437.300	41.99	74.0	32.01	Peak	184.00	200	Vertical	Pass
1**	1437.300	33.81	54.0	20.19	AV	184.00	200	Vertical	Pass
2	4373.000	50.45	74.0	23.55	Peak	19.00	400	Vertical	Pass
2**	4373.000	40.75	54.0	13.25	AV	19.00	400	Vertical	Pass
3	5215.000	104.48	--	--	Peak	221.00	200	Vertical	N/A
3**	5215.000	96.52	--	--	AV	221.00	200	Vertical	N/A
4	7333.212	49.96	74.0	24.04	Peak	141.00	400	Vertical	Pass
4**	7333.212	40.81	54.0	13.19	AV	141.00	400	Vertical	Pass
5	10920.637	52.16	74.0	21.84	Peak	192.00	200	Vertical	Pass
5**	10920.637	43.04	54.0	10.96	AV	192.00	200	Vertical	Pass
6	15525.675	55.19	74.0	18.81	Peak	291.00	400	Vertical	Pass
6**	15525.675	45.86	54.0	8.14	AV	291.00	400	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	1440.000	43.86	74.0	30.14	Peak	161.00	200	Horizontal	Pass
1**	1440.000	34.54	54.0	19.46	AV	161.00	200	Horizontal	Pass
2	4391.400	50.28	74.0	23.72	Peak	75.00	100	Horizontal	Pass
2**	4391.400	41.03	54.0	12.97	AV	75.00	100	Horizontal	Pass
3	5245.800	101.30	--	--	Peak	42.00	200	Horizontal	N/A
3**	5245.800	94.03	--	--	AV	42.00	200	Horizontal	N/A
4	7478.400	50.52	74.0	23.48	Peak	227.00	200	Horizontal	Pass
4**	7478.400	40.21	54.0	13.79	AV	227.00	200	Horizontal	Pass
5	11326.300	52.24	74.0	21.76	Peak	347.00	100	Horizontal	Pass
5**	11326.300	42.30	54.0	11.70	AV	347.00	100	Horizontal	Pass
6	15516.750	54.89	74.0	19.11	Peak	173.00	300	Horizontal	Pass
6**	15516.750	46.24	54.0	7.76	AV	173.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1442.800	41.54	74.0	32.46	Peak	189.00	100	Vertical	Pass
1**	1442.800	34.38	54.0	19.62	AV	189.00	100	Vertical	Pass
2	4372.400	50.32	74.0	23.68	Peak	233.00	100	Vertical	Pass
2**	4372.400	40.63	54.0	13.37	AV	233.00	100	Vertical	Pass
3	5238.000	103.85	--	--	Peak	222.00	200	Vertical	N/A
3**	5238.000	96.00	--	--	AV	222.00	200	Vertical	N/A
4	7347.013	50.59	74.0	23.41	Peak	76.00	400	Vertical	Pass
4**	7347.013	40.23	54.0	13.77	AV	76.00	400	Vertical	Pass
5	12489.238	51.85	74.0	22.15	Peak	245.00	100	Vertical	Pass
5**	12489.238	41.64	54.0	12.36	AV	245.00	100	Vertical	Pass
6	15838.838	55.01	74.0	18.99	Peak	310.00	300	Vertical	Pass
6**	15838.838	45.77	54.0	8.23	AV	310.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.200	44.82	74.0	29.18	Peak	161.00	400	Horizontal	Pass
1**	1439.200	35.83	54.0	18.17	AV	161.00	400	Horizontal	Pass
2	4390.800	50.32	74.0	23.68	Peak	64.00	300	Horizontal	Pass
2**	4390.800	40.78	54.0	13.22	AV	64.00	300	Horizontal	Pass
3	5176.600	99.69	--	--	Peak	31.00	200	Horizontal	N/A
3**	5176.600	90.38	--	--	AV	31.00	200	Horizontal	N/A
4	7338.675	51.12	74.0	22.88	Peak	55.00	300	Horizontal	Pass
4**	7338.675	41.30	54.0	12.70	AV	55.00	300	Horizontal	Pass
5	11201.526	52.48	74.0	21.52	Peak	191.00	200	Horizontal	Pass
5**	11201.526	43.50	54.0	10.50	AV	191.00	200	Horizontal	Pass
6	15506.250	54.96	74.0	19.04	Peak	330.00	200	Horizontal	Pass
6**	15506.250	45.68	54.0	8.32	AV	330.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.700	41.06	74.0	32.94	Peak	190.00	200	Vertical	Pass
1**	1437.700	33.69	54.0	20.31	AV	190.00	200	Vertical	Pass
2	4183.000	50.63	74.0	23.37	Peak	43.00	200	Vertical	Pass
2**	4183.000	40.97	54.0	13.03	AV	43.00	200	Vertical	Pass
3	5199.800	101.07	--	--	Peak	239.00	200	Vertical	N/A
3**	5199.800	93.74	--	--	AV	239.00	200	Vertical	N/A
4	7434.125	50.57	74.0	23.43	Peak	0.00	300	Vertical	Pass
4**	7434.125	41.14	54.0	12.86	AV	0.00	300	Vertical	Pass
5	12412.188	52.03	74.0	21.97	Peak	141.00	150	Vertical	Pass
5**	12412.188	41.92	54.0	12.08	AV	141.00	150	Vertical	Pass
6	15827.550	54.97	74.0	19.03	Peak	35.00	400	Vertical	Pass
6**	15827.550	46.37	54.0	7.63	AV	35.00	400	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	1440.500	43.52	74.0	30.48	Peak	156.00	400	Horizontal	Pass
1**	1440.500	36.58	54.0	17.42	AV	156.00	400	Horizontal	Pass
2	4318.000	50.66	74.0	23.34	Peak	169.00	400	Horizontal	Pass
2**	4318.000	42.66	54.0	11.34	AV	169.00	400	Horizontal	Pass
3	5223.000	99.84	--	--	Peak	31.00	150	Horizontal	N/A
3**	5223.000	92.09	--	--	AV	31.00	150	Horizontal	N/A
4	7501.112	50.00	74.0	24.00	Peak	25.00	200	Horizontal	Pass
4**	7501.112	40.80	54.0	13.20	AV	25.00	200	Horizontal	Pass
5	11780.838	52.39	74.0	21.61	Peak	42.00	100	Horizontal	Pass
5**	11780.838	41.90	54.0	12.10	AV	42.00	100	Horizontal	Pass
6	15846.450	55.08	74.0	18.92	Peak	0.00	100	Horizontal	Pass
6**	15846.450	45.31	54.0	8.69	AV	0.00	100	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	1442.500	42.21	74.0	31.79	Peak	189.00	200	Vertical	Pass
1**	1442.500	33.48	54.0	20.52	AV	189.00	200	Vertical	Pass
2	4046.200	50.26	74.0	23.74	Peak	154.00	200	Vertical	Pass
2**	4046.200	39.82	54.0	14.18	AV	154.00	200	Vertical	Pass
3	5220.000	101.44	--	--	Peak	221.00	150	Vertical	N/A
3**	5220.000	93.67	--	--	AV	221.00	150	Vertical	N/A
4	7426.937	50.28	74.0	23.72	Peak	312.00	200	Vertical	Pass
4**	7426.937	41.10	54.0	12.90	AV	312.00	200	Vertical	Pass
5	11332.625	52.20	74.0	21.80	Peak	228.00	100	Vertical	Pass
5**	11332.625	43.19	54.0	10.81	AV	228.00	100	Vertical	Pass
6	15811.537	54.55	74.0	19.45	Peak	360.00	200	Vertical	Pass
6**	15811.537	46.30	54.0	7.70	AV	360.00	200	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	1441.900	42.98	74.0	31.02	Peak	155.00	200	Horizontal	Pass
1**	1441.900	35.46	54.0	18.54	AV	155.00	200	Horizontal	Pass
2	4370.200	50.64	74.0	23.36	Peak	30.00	300	Horizontal	Pass
2**	4370.200	40.94	54.0	13.06	AV	30.00	300	Horizontal	Pass
3	5184.600	101.56	--	--	Peak	30.00	200	Horizontal	N/A
3**	5184.600	93.87	--	--	AV	30.00	200	Horizontal	N/A
4	7489.038	50.30	74.0	23.70	Peak	176.00	100	Horizontal	Pass
4**	7489.038	40.75	54.0	13.25	AV	176.00	100	Horizontal	Pass
5	10917.474	52.83	74.0	21.17	Peak	211.00	150	Horizontal	Pass
5**	10917.474	43.00	54.0	11.00	AV	211.00	150	Horizontal	Pass
6	16135.463	54.61	74.0	19.39	Peak	98.00	200	Horizontal	Pass
6**	16135.463	45.64	54.0	8.36	AV	98.00	200	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	1442.300	41.45	74.0	32.55	Peak	184.00	400	Vertical	Pass
1**	1442.300	32.56	54.0	21.44	AV	184.00	400	Vertical	Pass
2	4226.800	50.71	74.0	23.29	Peak	77.00	100	Vertical	Pass
2**	4226.800	40.49	54.0	13.51	AV	77.00	100	Vertical	Pass
3	5175.600	102.70	--	--	Peak	224.00	200	Vertical	N/A
3**	5175.600	95.34	--	--	AV	224.00	200	Vertical	N/A
4	7331.200	50.79	74.0	23.21	Peak	74.00	200	Vertical	Pass
4**	7331.200	40.39	54.0	13.61	AV	74.00	200	Vertical	Pass
5	11214.463	51.63	74.0	22.37	Peak	40.00	150	Vertical	Pass
5**	11214.463	42.42	54.0	11.58	AV	40.00	150	Vertical	Pass
6	16074.299	55.25	74.0	18.75	Peak	174.00	300	Vertical	Pass
6**	16074.299	45.01	54.0	8.99	AV	174.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.000	44.97	74.0	29.03	Peak	129.00	200	Horizontal	Pass
1**	1439.000	35.92	54.0	18.08	AV	129.00	200	Horizontal	Pass
2	4205.000	50.24	74.0	23.76	Peak	360.00	400	Horizontal	Pass
2**	4205.000	40.84	54.0	13.16	AV	360.00	400	Horizontal	Pass
3	5221.800	101.79	--	--	Peak	35.00	200	Horizontal	N/A
3**	5221.800	93.34	--	--	AV	35.00	200	Horizontal	N/A
4	7450.800	51.37	74.0	22.63	Peak	305.00	200	Horizontal	Pass
4**	7450.800	41.75	54.0	12.25	AV	305.00	200	Horizontal	Pass
5	11790.325	51.83	74.0	22.17	Peak	250.00	100	Horizontal	Pass
5**	11790.325	42.22	54.0	11.78	AV	250.00	100	Horizontal	Pass
6	15832.275	55.26	74.0	18.74	Peak	236.00	300	Horizontal	Pass
6**	15832.275	46.08	54.0	7.92	AV	236.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1443.100	41.13	74.0	32.87	Peak	183.00	300	Vertical	Pass
1**	1443.100	32.16	54.0	21.84	AV	183.00	300	Vertical	Pass
2	4231.400	50.11	74.0	23.89	Peak	326.00	100	Vertical	Pass
2**	4231.400	41.54	54.0	12.46	AV	326.00	100	Vertical	Pass
3	5216.600	104.09	--	--	Peak	215.00	200	Vertical	N/A
3**	5216.600	96.37	--	--	AV	215.00	200	Vertical	N/A
4	7505.138	50.26	74.0	23.74	Peak	125.00	300	Vertical	Pass
4**	7505.138	41.46	54.0	12.54	AV	125.00	300	Vertical	Pass
5	11929.475	52.09	74.0	21.91	Peak	242.00	100	Vertical	Pass
5**	11929.475	42.17	54.0	11.83	AV	242.00	100	Vertical	Pass
6	16145.700	54.64	74.0	19.36	Peak	213.00	300	Vertical	Pass
6**	16145.700	45.04	54.0	8.96	AV	213.00	300	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	1441.000	43.87	74.0	30.13	Peak	158.00	400	Horizontal	Pass
1**	1441.000	36.46	54.0	17.54	AV	158.00	400	Horizontal	Pass
2	4082.600	51.16	74.0	22.84	Peak	257.00	400	Horizontal	Pass
2**	4082.600	41.22	54.0	12.78	AV	257.00	400	Horizontal	Pass
3	5236.000	101.13	--	--	Peak	291.00	150	Horizontal	N/A
3**	5236.000	93.07	--	--	AV	291.00	150	Horizontal	N/A
4	7443.900	50.47	74.0	23.53	Peak	178.00	300	Horizontal	Pass
4**	7443.900	40.97	54.0	13.03	AV	178.00	300	Horizontal	Pass
5	12614.300	52.60	74.0	21.40	Peak	331.00	200	Horizontal	Pass
5**	12614.300	41.97	54.0	12.03	AV	331.00	200	Horizontal	Pass
6	15512.813	54.89	74.0	19.11	Peak	211.00	300	Horizontal	Pass
6**	15512.813	45.80	54.0	8.20	AV	211.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.900	42.19	74.0	31.81	Peak	187.00	200	Vertical	Pass
1**	1438.900	33.89	54.0	20.11	AV	187.00	200	Vertical	Pass
2	4369.600	50.35	74.0	23.65	Peak	182.00	200	Vertical	Pass
2**	4369.600	41.30	54.0	12.70	AV	182.00	200	Vertical	Pass
3	5236.000	105.95	--	--	Peak	182.00	150	Vertical	N/A
3**	5236.000	97.17	--	--	AV	182.00	150	Vertical	N/A
4	7438.150	51.03	74.0	22.97	Peak	0.00	400	Vertical	Pass
4**	7438.150	42.73	54.0	11.27	AV	0.00	400	Vertical	Pass
5	11340.387	52.27	74.0	21.73	Peak	263.00	150	Vertical	Pass
5**	11340.387	42.35	54.0	11.65	AV	263.00	150	Vertical	Pass
6	15518.325	55.50	74.0	18.50	Peak	192.00	200	Vertical	Pass
6**	15518.325	45.30	54.0	8.70	AV	192.00	200	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	1438.200	44.04	74.0	29.96	Peak	158.00	100	Horizontal	Pass
1**	1438.200	36.58	54.0	17.42	AV	158.00	100	Horizontal	Pass
2	4003.800	49.94	74.0	24.06	Peak	142.00	300	Horizontal	Pass
2**	4003.800	41.05	54.0	12.95	AV	142.00	300	Horizontal	Pass
3	5184.800	100.10	--	--	Peak	30.00	150	Horizontal	N/A
3**	5184.800	91.55	--	--	AV	30.00	150	Horizontal	N/A
4	7464.025	50.98	74.0	23.02	Peak	360.00	400	Horizontal	Pass
4**	7464.025	41.45	54.0	12.55	AV	360.00	400	Horizontal	Pass
5	11935.513	52.41	74.0	21.59	Peak	360.00	100	Horizontal	Pass
5**	11935.513	43.03	54.0	10.97	AV	360.00	100	Horizontal	Pass
6	15978.750	54.14	74.0	19.86	Peak	82.00	300	Horizontal	Pass
6**	15978.750	44.86	54.0	9.14	AV	82.00	300	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	1439.900	43.24	74.0	30.76	Peak	324.00	100	Vertical	Pass
1**	1439.900	31.17	54.0	22.83	AV	324.00	100	Vertical	Pass
2	4342.400	50.29	74.0	23.71	Peak	167.00	200	Vertical	Pass
2**	4342.400	40.96	54.0	13.04	AV	167.00	200	Vertical	Pass
3	5201.000	100.97	--	--	Peak	224.00	200	Vertical	N/A
3**	5201.000	93.18	--	--	AV	224.00	200	Vertical	N/A
4	7504.850	50.37	74.0	23.63	Peak	346.00	300	Vertical	Pass
4**	7504.850	41.50	54.0	12.50	AV	346.00	300	Vertical	Pass
5	12486.938	52.06	74.0	21.94	Peak	89.00	200	Vertical	Pass
5**	12486.938	42.60	54.0	11.40	AV	89.00	200	Vertical	Pass
6	15521.475	55.71	74.0	18.29	Peak	269.00	300	Vertical	Pass
6**	15521.475	46.30	54.0	7.70	AV	269.00	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	1437.300	43.52	74.0	30.48	Peak	158.00	400	Horizontal	Pass
1**	1437.300	37.58	54.0	16.42	AV	158.00	400	Horizontal	Pass
2	4373.000	50.01	74.0	23.99	Peak	8.00	200	Horizontal	Pass
2**	4373.000	40.53	54.0	13.47	AV	8.00	200	Horizontal	Pass
3	5225.000	99.20	--	--	Peak	42.00	150	Horizontal	N/A
3**	5225.000	91.00	--	--	AV	42.00	150	Horizontal	N/A
4	7466.612	50.25	74.0	23.75	Peak	169.00	300	Horizontal	Pass
4**	7466.612	42.14	54.0	11.86	AV	169.00	300	Horizontal	Pass
5	10927.537	52.00	74.0	22.00	Peak	16.00	100	Horizontal	Pass
5**	10927.537	42.96	54.0	11.04	AV	16.00	100	Horizontal	Pass
6	15484.724	54.80	74.0	19.20	Peak	211.00	200	Horizontal	Pass
6**	15484.724	44.88	54.0	9.12	AV	211.00	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	1437.200	41.09	74.0	32.91	Peak	183.00	400	Vertical	Pass
1**	1437.200	32.93	54.0	21.07	AV	183.00	400	Vertical	Pass
2	4383.600	50.37	74.0	23.63	Peak	348.00	100	Vertical	Pass
2**	4383.600	40.73	54.0	13.27	AV	348.00	100	Vertical	Pass
3	5224.800	100.82	--	--	Peak	201.00	200	Vertical	N/A
3**	5224.800	93.34	--	--	AV	201.00	200	Vertical	N/A
4	7445.913	51.20	74.0	22.80	Peak	209.00	300	Vertical	Pass
4**	7445.913	41.29	54.0	12.71	AV	209.00	300	Vertical	Pass
5	11037.075	52.01	74.0	21.99	Peak	312.00	100	Vertical	Pass
5**	11037.075	41.73	54.0	12.27	AV	312.00	100	Vertical	Pass
6	15494.175	55.12	74.0	18.88	Peak	310.00	300	Vertical	Pass
6**	15494.175	45.60	54.0	8.40	AV	310.00	300	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	1439.100	45.08	74.0	28.92	Peak	243.00	400	Horizontal	Pass
1**	1439.100	36.78	54.0	17.22	AV	243.00	400	Horizontal	Pass
2	4340.800	50.12	74.0	23.88	Peak	360.00	300	Horizontal	Pass
2**	4340.800	40.43	54.0	13.57	AV	360.00	300	Horizontal	Pass
3	5742.400	103.50	--	--	Peak	191.00	100	Horizontal	N/A
3**	5742.400	95.87	--	--	AV	191.00	100	Horizontal	N/A
4	7462.875	50.47	74.0	23.53	Peak	0.00	100	Horizontal	Pass
4**	7462.875	41.23	54.0	12.77	AV	0.00	100	Horizontal	Pass
5	10930.700	51.85	74.0	22.15	Peak	89.00	100	Horizontal	Pass
5**	10930.700	42.93	54.0	11.07	AV	89.00	100	Horizontal	Pass
6	15819.675	54.75	74.0	19.25	Peak	0.00	200	Horizontal	Pass
6**	15819.675	45.79	54.0	8.21	AV	0.00	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	1441.900	41.46	74.0	32.54	Peak	119.00	300	Vertical	Pass
1**	1441.900	31.77	54.0	22.23	AV	119.00	300	Vertical	Pass
2	4386.800	50.25	74.0	23.75	Peak	166.00	400	Vertical	Pass
2**	4386.800	41.18	54.0	12.82	AV	166.00	400	Vertical	Pass
3	5750.800	106.82	--	--	Peak	120.00	150	Vertical	N/A
3**	5750.800	98.92	--	--	AV	120.00	150	Vertical	N/A
4	7397.900	50.54	74.0	23.46	Peak	360.00	300	Vertical	Pass
4**	7397.900	41.59	54.0	12.41	AV	360.00	300	Vertical	Pass
5	10925.237	52.34	74.0	21.66	Peak	109.00	150	Vertical	Pass
5**	10925.237	43.08	54.0	10.92	AV	109.00	150	Vertical	Pass
6	16101.338	55.15	74.0	18.85	Peak	116.00	200	Vertical	Pass
6**	16101.338	45.66	54.0	8.34	AV	116.00	200	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	1438.100	44.29	74.0	29.71	Peak	155.00	200	Horizontal	Pass
1**	1438.100	37.57	54.0	16.43	AV	155.00	200	Horizontal	Pass
2	4196.400	49.95	74.0	24.05	Peak	279.00	200	Horizontal	Pass
2**	4196.400	40.39	54.0	13.61	AV	279.00	200	Horizontal	Pass
3	5782.800	103.35	--	--	Peak	313.00	150	Horizontal	N/A
3**	5782.800	96.21	--	--	AV	313.00	150	Horizontal	N/A
4	7381.513	50.15	74.0	23.85	Peak	22.00	400	Horizontal	Pass
4**	7381.513	40.50	54.0	13.50	AV	22.00	400	Horizontal	Pass
5	12042.750	52.07	74.0	21.93	Peak	39.00	100	Horizontal	Pass
5**	12042.750	41.28	54.0	12.72	AV	39.00	100	Horizontal	Pass
6	15517.799	54.94	74.0	19.06	Peak	0.00	400	Horizontal	Pass
6**	15517.799	46.02	54.0	7.98	AV	0.00	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	1442.300	41.25	74.0	32.75	Peak	181.00	100	Vertical	Pass
1**	1442.300	32.86	54.0	21.14	AV	181.00	100	Vertical	Pass
2	3705.600	50.10	74.0	23.90	Peak	348.00	400	Vertical	Pass
2**	3705.600	40.85	54.0	13.15	AV	348.00	400	Vertical	Pass
3	5783.600	106.52	--	--	Peak	121.00	100	Vertical	N/A
3**	5783.600	99.60	--	--	AV	121.00	100	Vertical	N/A
4	7502.263	50.33	74.0	23.67	Peak	91.00	400	Vertical	Pass
4**	7502.263	41.68	54.0	12.32	AV	91.00	400	Vertical	Pass
5	12584.974	52.29	74.0	21.71	Peak	312.00	100	Vertical	Pass
5**	12584.974	42.82	54.0	11.18	AV	312.00	100	Vertical	Pass
6	15506.775	55.26	74.0	18.74	Peak	332.00	300	Vertical	Pass
6**	15506.775	46.10	54.0	7.90	AV	332.00	300	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	1438.300	43.69	74.0	30.31	Peak	154.00	300	Horizontal	Pass
1**	1438.300	37.72	54.0	16.28	AV	154.00	300	Horizontal	Pass
2	4307.800	50.20	74.0	23.80	Peak	10.00	200	Horizontal	Pass
2**	4307.800	41.38	54.0	12.62	AV	10.00	200	Horizontal	Pass
3	5821.800	103.15	--	--	Peak	304.00	200	Horizontal	N/A
3**	5821.800	95.61	--	--	AV	304.00	200	Horizontal	N/A
4	7519.513	50.04	74.0	23.96	Peak	158.00	300	Horizontal	Pass
4**	7519.513	40.20	54.0	13.80	AV	158.00	300	Horizontal	Pass
5	10934.725	52.49	74.0	21.51	Peak	73.00	200	Horizontal	Pass
5**	10934.725	43.29	54.0	10.71	AV	73.00	200	Horizontal	Pass
6	15491.550	55.10	74.0	18.90	Peak	313.00	300	Horizontal	Pass
6**	15491.550	45.20	54.0	8.80	AV	313.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.400	41.55	74.0	32.45	Peak	174.00	100	Vertical	Pass
1**	1438.400	33.12	54.0	20.88	AV	174.00	100	Vertical	Pass
2	4001.200	50.83	74.0	23.17	Peak	268.00	200	Vertical	Pass
2**	4001.200	40.34	54.0	13.66	AV	268.00	200	Vertical	Pass
3	5826.200	105.27	--	--	Peak	120.00	100	Vertical	N/A
3**	5826.200	97.64	--	--	AV	120.00	100	Vertical	N/A
4	7451.950	51.02	74.0	22.98	Peak	38.00	100	Vertical	Pass
4**	7451.950	41.71	54.0	12.29	AV	38.00	100	Vertical	Pass
5	12413.050	52.69	74.0	21.31	Peak	175.00	100	Vertical	Pass
5**	12413.050	43.02	54.0	10.98	AV	175.00	100	Vertical	Pass
6	15833.850	55.08	74.0	18.92	Peak	332.00	400	Vertical	Pass
6**	15833.850	45.53	54.0	8.47	AV	332.00	400	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	1441.500	43.91	74.0	30.09	Peak	159.00	200	Horizontal	Pass
1**	1441.500	36.10	54.0	17.90	AV	159.00	200	Horizontal	Pass
2	4380.600	50.47	74.0	23.53	Peak	121.00	200	Horizontal	Pass
2**	4380.600	40.74	54.0	13.26	AV	121.00	200	Horizontal	Pass
3	5738.800	100.19	--	--	Peak	20.00	100	Horizontal	N/A
3**	5738.800	92.11	--	--	AV	20.00	100	Horizontal	N/A
4	7449.650	50.67	74.0	23.33	Peak	209.00	300	Horizontal	Pass
4**	7449.650	42.37	54.0	11.63	AV	209.00	300	Horizontal	Pass
5	11928.612	52.10	74.0	21.90	Peak	175.00	150	Horizontal	Pass
5**	11928.612	42.90	54.0	11.10	AV	175.00	150	Horizontal	Pass
6	15819.150	55.35	74.0	18.65	Peak	17.00	200	Horizontal	Pass
6**	15819.150	46.51	54.0	7.49	AV	17.00	200	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	1445.500	41.03	74.0	32.97	Peak	182.00	300	Vertical	Pass
1**	1445.500	31.09	54.0	22.91	AV	182.00	300	Vertical	Pass
2	4238.000	50.15	74.0	23.85	Peak	292.00	300	Vertical	Pass
2**	4238.000	40.48	54.0	13.52	AV	292.00	300	Vertical	Pass
3	5747.400	103.76	--	--	Peak	133.00	200	Vertical	N/A
3**	5747.400	95.97	--	--	AV	133.00	200	Vertical	N/A
4	7450.800	50.02	74.0	23.98	Peak	295.00	300	Vertical	Pass
4**	7450.800	41.98	54.0	12.02	AV	295.00	300	Vertical	Pass
5	11926.600	52.18	74.0	21.82	Peak	91.00	100	Vertical	Pass
5**	11926.600	43.12	54.0	10.88	AV	91.00	100	Vertical	Pass
6	16133.363	55.07	74.0	18.93	Peak	360.00	200	Vertical	Pass
6**	16133.363	45.62	54.0	8.38	AV	360.00	200	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	1439.300	44.69	74.0	29.31	Peak	1.00	100	Horizontal	Pass
1**	1439.300	37.60	54.0	16.40	AV	1.00	100	Horizontal	Pass
2	4315.200	50.43	74.0	23.57	Peak	216.00	400	Horizontal	Pass
2**	4315.200	40.49	54.0	13.51	AV	216.00	400	Horizontal	Pass
3	5782.400	101.51	--	--	Peak	37.00	100	Horizontal	N/A
3**	5782.400	93.28	--	--	AV	37.00	100	Horizontal	N/A
4	7444.763	50.57	74.0	23.43	Peak	152.00	200	Horizontal	Pass
4**	7444.763	42.89	54.0	11.11	AV	152.00	200	Horizontal	Pass
5	11670.438	52.89	74.0	21.11	Peak	360.00	200	Horizontal	Pass
5**	11670.438	42.28	54.0	11.72	AV	360.00	200	Horizontal	Pass
6	15578.963	55.39	74.0	18.61	Peak	199.00	400	Horizontal	Pass
6**	15578.963	44.72	54.0	9.28	AV	199.00	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	1495.500	41.47	74.0	32.53	Peak	92.00	300	Vertical	Pass
1**	1495.500	29.45	54.0	24.55	AV	92.00	300	Vertical	Pass
2	4213.400	50.43	74.0	23.57	Peak	140.00	400	Vertical	Pass
2**	4213.400	40.75	54.0	13.25	AV	140.00	400	Vertical	Pass
3	5781.200	103.11	--	--	Peak	151.00	150	Vertical	N/A
3**	5781.200	95.46	--	--	AV	151.00	150	Vertical	N/A
4	7446.200	50.87	74.0	23.13	Peak	104.00	300	Vertical	Pass
4**	7446.200	41.55	54.0	12.45	AV	104.00	300	Vertical	Pass
5	12223.588	52.14	74.0	21.86	Peak	4.00	100	Vertical	Pass
5**	12223.588	42.46	54.0	11.54	AV	4.00	100	Vertical	Pass
6	15820.200	54.62	74.0	19.38	Peak	92.00	300	Vertical	Pass
6**	15820.200	45.93	54.0	8.07	AV	92.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.200	45.06	74.0	28.94	Peak	187.00	300	Horizontal	Pass
1**	1438.200	38.83	54.0	15.17	AV	187.00	300	Horizontal	Pass
2	4150.200	50.87	74.0	23.13	Peak	105.00	300	Horizontal	Pass
2**	4150.200	40.89	54.0	13.11	AV	105.00	300	Horizontal	Pass
3	5823.600	91.06	--	--	Peak	254.00	150	Horizontal	N/A
3**	5823.600	83.03	--	--	AV	254.00	150	Horizontal	N/A
4	7468.050	50.15	74.0	23.85	Peak	110.00	100	Horizontal	Pass
4**	7468.050	41.13	54.0	12.87	AV	110.00	100	Horizontal	Pass
5	12506.776	52.65	74.0	21.35	Peak	93.00	100	Horizontal	Pass
5**	12506.776	42.00	54.0	12.00	AV	93.00	100	Horizontal	Pass
6	15818.625	54.58	74.0	19.42	Peak	75.00	100	Horizontal	Pass
6**	15818.625	45.14	54.0	8.86	AV	75.00	100	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	1484.800	40.61	74.0	33.39	Peak	196.00	200	Vertical	Pass
1**	1484.800	35.71	54.0	18.29	AV	196.00	200	Vertical	Pass
2	3995.600	50.77	74.0	23.23	Peak	20.00	400	Vertical	Pass
2**	3995.600	40.93	54.0	13.07	AV	20.00	400	Vertical	Pass
3	5826.200	102.05	--	--	Peak	157.00	200	Vertical	N/A
3**	5826.200	94.82	--	--	AV	157.00	200	Vertical	N/A
4	7343.850	50.56	74.0	23.44	Peak	129.00	200	Vertical	Pass
4**	7343.850	41.16	54.0	12.84	AV	129.00	200	Vertical	Pass
5	12006.813	51.94	74.0	22.06	Peak	331.00	200	Vertical	Pass
5**	12006.813	42.63	54.0	11.37	AV	331.00	200	Vertical	Pass
6	16130.475	54.88	74.0	19.12	Peak	288.00	200	Vertical	Pass
6**	16130.475	46.13	54.0	7.87	AV	288.00	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	1442.000	45.76	74.0	28.24	Peak	177.00	200	Horizontal	Pass
1**	1442.000	38.71	54.0	15.29	AV	177.00	200	Horizontal	Pass
2	3999.200	50.28	74.0	23.72	Peak	263.00	400	Horizontal	Pass
2**	3999.200	40.87	54.0	13.13	AV	263.00	400	Horizontal	Pass
3	5752.400	97.91	--	--	Peak	298.00	150	Horizontal	N/A
3**	5752.400	89.67	--	--	AV	298.00	150	Horizontal	N/A
4	7381.513	50.62	74.0	23.38	Peak	308.00	400	Horizontal	Pass
4**	7381.513	41.37	54.0	12.63	AV	308.00	400	Horizontal	Pass
5	11784.575	52.51	74.0	21.49	Peak	155.00	150	Horizontal	Pass
5**	11784.575	42.93	54.0	11.07	AV	155.00	150	Horizontal	Pass
6	16123.125	55.96	74.0	18.04	Peak	145.00	400	Horizontal	Pass
6**	16123.125	45.51	54.0	8.49	AV	145.00	400	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	1439.200	42.95	74.0	31.05	Peak	94.00	300	Vertical	Pass
1**	1439.200	35.56	54.0	18.44	AV	94.00	300	Vertical	Pass
2	4106.400	50.47	74.0	23.53	Peak	301.00	400	Vertical	Pass
2**	4106.400	40.23	54.0	13.77	AV	301.00	400	Vertical	Pass
3	5752.000	101.42	--	--	Peak	131.00	150	Vertical	N/A
3**	5752.000	95.10	--	--	AV	131.00	150	Vertical	N/A
4	7340.112	50.94	74.0	23.06	Peak	1.00	300	Vertical	Pass
4**	7340.112	41.48	54.0	12.52	AV	1.00	300	Vertical	Pass
5	11508.575	52.60	74.0	21.40	Peak	0.00	200	Vertical	Pass
5**	11508.575	42.46	54.0	11.54	AV	0.00	200	Vertical	Pass
6	15819.150	55.13	74.0	18.87	Peak	180.00	150	Vertical	Pass
6**	15819.150	46.11	54.0	7.89	AV	180.00	150	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	1438.900	45.28	74.0	28.72	Peak	229.00	400	Horizontal	Pass
1**	1438.900	38.06	54.0	15.94	AV	229.00	400	Horizontal	Pass
2	4381.000	50.49	74.0	23.51	Peak	213.00	200	Horizontal	Pass
2**	4381.000	41.06	54.0	12.94	AV	213.00	200	Horizontal	Pass
3	5805.000	96.83	--	--	Peak	294.00	150	Horizontal	N/A
3**	5805.000	88.91	--	--	AV	294.00	150	Horizontal	N/A
4	7446.488	50.42	74.0	23.58	Peak	279.00	100	Horizontal	Pass
4**	7446.488	42.63	54.0	11.37	AV	279.00	100	Horizontal	Pass
5	11951.037	51.90	74.0	22.10	Peak	73.00	100	Horizontal	Pass
5**	11951.037	43.80	54.0	10.20	AV	73.00	100	Horizontal	Pass
6	15526.200	55.35	74.0	18.65	Peak	174.00	100	Horizontal	Pass
6**	15526.200	46.32	54.0	7.68	AV	174.00	100	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	1439.000	42.35	74.0	31.65	Peak	91.00	400	Vertical	Pass
1**	1439.000	34.80	54.0	19.20	AV	91.00	400	Vertical	Pass
2	4393.400	51.28	74.0	22.72	Peak	169.00	300	Vertical	Pass
2**	4393.400	41.07	54.0	12.93	AV	169.00	300	Vertical	Pass
3	5743.400	104.49	--	--	Peak	157.00	100	Vertical	N/A
3**	5743.400	96.83	--	--	AV	157.00	100	Vertical	N/A
4	7446.775	50.25	74.0	23.75	Peak	258.00	400	Vertical	Pass
4**	7446.775	41.77	54.0	12.23	AV	258.00	400	Vertical	Pass
5	11935.513	52.44	74.0	21.56	Peak	311.00	150	Vertical	Pass
5**	11935.513	43.05	54.0	10.95	AV	311.00	150	Vertical	Pass
6	15827.550	54.83	74.0	19.17	Peak	187.00	100	Vertical	Pass
6**	15827.550	46.20	54.0	7.80	AV	187.00	100	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	1438.800	45.22	74.0	28.78	Peak	229.00	100	Horizontal	Pass
1**	1438.800	37.37	54.0	16.63	AV	229.00	100	Horizontal	Pass
2	4319.200	50.61	74.0	23.39	Peak	248.00	200	Horizontal	Pass
2**	4319.200	40.55	54.0	13.45	AV	248.00	200	Horizontal	Pass
3	5739.800	100.66	--	--	Peak	75.00	200	Horizontal	N/A
3**	5739.800	92.93	--	--	AV	75.00	200	Horizontal	N/A
4	7616.400	50.01	74.0	23.99	Peak	360.00	400	Horizontal	Pass
4**	7616.400	41.20	54.0	12.80	AV	360.00	400	Horizontal	Pass
5	11489.025	53.76	74.0	20.24	Peak	143.00	200	Horizontal	Pass
5**	11489.025	44.56	54.0	9.44	AV	143.00	200	Horizontal	Pass
6	15825.450	55.27	74.0	18.73	Peak	102.00	100	Horizontal	Pass
6**	15825.450	46.12	54.0	7.88	AV	102.00	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	1439.900	42.92	74.0	31.08	Peak	128.00	400	Vertical	Pass
1**	1439.900	35.87	54.0	18.13	AV	128.00	400	Vertical	Pass
2	4313.400	50.29	74.0	23.71	Peak	350.00	300	Vertical	Pass
2**	4313.400	41.16	54.0	12.84	AV	350.00	300	Vertical	Pass
3	5797.200	100.84	--	--	Peak	134.00	150	Vertical	N/A
3**	5797.200	93.50	--	--	AV	134.00	150	Vertical	N/A
4	7436.425	50.26	74.0	23.74	Peak	160.00	200	Vertical	Pass
4**	7436.425	42.35	54.0	11.65	AV	160.00	200	Vertical	Pass
5	11787.737	52.01	74.0	21.99	Peak	110.00	200	Vertical	Pass
5**	11787.737	42.46	54.0	11.54	AV	110.00	200	Vertical	Pass
6	16105.012	55.27	74.0	18.73	Peak	212.00	100	Vertical	Pass
6**	16105.012	46.06	54.0	7.94	AV	212.00	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	1440.700	46.75	74.0	27.25	Peak	74.00	400	Horizontal	Pass
1**	1440.700	39.19	54.0	14.81	AV	74.00	400	Horizontal	Pass
2	4358.400	50.96	74.0	23.04	Peak	21.00	300	Horizontal	Pass
2**	4358.400	41.08	54.0	12.92	AV	21.00	300	Horizontal	Pass
3	5783.200	100.15	--	--	Peak	67.00	200	Horizontal	N/A
3**	5783.200	92.56	--	--	AV	67.00	200	Horizontal	N/A
4	7436.137	50.41	74.0	23.59	Peak	225.00	100	Horizontal	Pass
4**	7436.137	41.55	54.0	12.45	AV	225.00	100	Horizontal	Pass
5	12010.838	52.96	74.0	21.04	Peak	21.00	200	Horizontal	Pass
5**	12010.838	42.57	54.0	11.43	AV	21.00	200	Horizontal	Pass
6	15813.375	54.56	74.0	19.44	Peak	95.00	300	Horizontal	Pass
6**	15813.375	45.50	54.0	8.50	AV	95.00	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	1443.200	41.45	74.0	32.55	Peak	142.00	200	Vertical	Pass
1**	1443.200	33.75	54.0	20.25	AV	142.00	200	Vertical	Pass
2	4304.000	50.99	74.0	23.01	Peak	55.00	400	Vertical	Pass
2**	4304.000	40.45	54.0	13.55	AV	55.00	400	Vertical	Pass
3	5779.600	103.64	--	--	Peak	157.00	200	Vertical	N/A
3**	5779.600	95.94	--	--	AV	157.00	200	Vertical	N/A
4	7463.162	50.57	74.0	23.43	Peak	73.00	300	Vertical	Pass
4**	7463.162	41.13	54.0	12.87	AV	73.00	300	Vertical	Pass
5	12582.963	52.42	74.0	21.58	Peak	0.00	200	Vertical	Pass
5**	12582.963	42.97	54.0	11.03	AV	0.00	200	Vertical	Pass
6	15821.513	54.84	74.0	19.16	Peak	357.00	400	Vertical	Pass
6**	15821.513	45.25	54.0	8.75	AV	357.00	400	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	1438.500	46.91	74.0	27.09	Peak	64.00	400	Horizontal	Pass
1**	1438.500	36.76	54.0	17.24	AV	64.00	400	Horizontal	Pass
2	4376.400	50.52	74.0	23.48	Peak	0.00	300	Horizontal	Pass
2**	4376.400	41.31	54.0	12.69	AV	0.00	300	Horizontal	Pass
3	5823.200	100.40	--	--	Peak	300.00	150	Horizontal	N/A
3**	5823.200	92.77	--	--	AV	300.00	150	Horizontal	N/A
4	7444.188	50.80	74.0	23.20	Peak	294.00	200	Horizontal	Pass
4**	7444.188	41.09	54.0	12.91	AV	294.00	200	Horizontal	Pass
5	11765.026	52.62	74.0	21.38	Peak	311.00	150	Horizontal	Pass
5**	11765.026	41.90	54.0	12.10	AV	311.00	150	Horizontal	Pass
6	15560.063	54.68	74.0	19.32	Peak	135.00	100	Horizontal	Pass
6**	15560.063	45.39	54.0	8.61	AV	135.00	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	1439.600	42.21	74.0	31.79	Peak	123.00	200	Vertical	Pass
1**	1439.600	34.25	54.0	19.75	AV	123.00	200	Vertical	Pass
2	4299.600	50.90	74.0	23.10	Peak	246.00	200	Vertical	Pass
2**	4299.600	40.48	54.0	13.52	AV	246.00	200	Vertical	Pass
3	5829.000	103.67	--	--	Peak	133.00	200	Vertical	N/A
3**	5829.000	95.95	--	--	AV	133.00	200	Vertical	N/A
4	7343.850	50.73	74.0	23.27	Peak	111.00	300	Vertical	Pass
4**	7343.850	40.98	54.0	13.02	AV	111.00	300	Vertical	Pass
5	12496.713	52.16	74.0	21.84	Peak	195.00	200	Vertical	Pass
5**	12496.713	42.30	54.0	11.70	AV	195.00	200	Vertical	Pass
6	16151.213	54.77	74.0	19.23	Peak	170.00	200	Vertical	Pass
6**	16151.213	44.54	54.0	9.46	AV	170.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.400	45.16	74.0	28.84	Peak	164.00	400	Horizontal	Pass
1**	1437.400	37.68	54.0	16.32	AV	164.00	400	Horizontal	Pass
2	4074.400	50.78	74.0	23.22	Peak	360.00	400	Horizontal	Pass
2**	4074.400	41.40	54.0	12.60	AV	360.00	400	Horizontal	Pass
3	5758.600	97.78	--	196.22	Peak	294.00	200	Horizontal	N/A
3**	5758.600	90.14	--	-90.14	AV	294.00	200	Horizontal	N/A
4	7461.725	50.39	74.0	23.61	Peak	329.00	400	Horizontal	Pass
4**	7461.725	40.97	54.0	13.03	AV	329.00	400	Horizontal	Pass
5	10925.237	52.68	74.0	21.32	Peak	219.00	150	Horizontal	Pass
5**	10925.237	43.38	54.0	10.62	AV	219.00	150	Horizontal	Pass
6	15566.888	55.20	74.0	18.80	Peak	333.00	300	Horizontal	Pass
6**	15566.888	46.05	54.0	7.95	AV	333.00	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	1444.100	43.12	74.0	30.88	Peak	124.00	100	Vertical	Pass
1**	1444.100	33.87	54.0	20.13	AV	124.00	100	Vertical	Pass
2	4165.000	50.79	74.0	23.21	Peak	334.00	100	Vertical	Pass
2**	4165.000	41.88	54.0	12.12	AV	334.00	100	Vertical	Pass
3	5759.600	101.28	--	50.72	Peak	152.00	100	Vertical	N/A
3**	5759.600	93.66	--	-93.66	AV	152.00	100	Vertical	N/A
4	7338.675	50.17	74.0	23.83	Peak	69.00	400	Vertical	Pass
4**	7338.675	41.59	54.0	12.41	AV	69.00	400	Vertical	Pass
5	12575.200	52.41	74.0	21.59	Peak	160.00	150	Vertical	Pass
5**	12575.200	43.19	54.0	10.81	AV	160.00	150	Vertical	Pass
6	15553.500	54.77	74.0	19.23	Peak	0.00	300	Vertical	Pass
6**	15553.500	44.61	54.0	9.39	AV	0.00	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	1438.100	44.96	74.0	29.04	Peak	219.00	150	Horizontal	Pass
1**	1438.100	38.27	54.0	15.73	AV	219.00	150	Horizontal	Pass
2	4259.000	49.96	74.0	24.04	Peak	155.00	150	Horizontal	Pass
2**	4259.000	41.54	54.0	12.46	AV	155.00	150	Horizontal	Pass
3	5802.200	96.33	--	--	Peak	291.00	150	Horizontal	N/A
3**	5802.200	88.48	--	--	AV	291.00	150	Horizontal	N/A
4	7446.488	50.30	74.0	23.70	Peak	77.00	150	Horizontal	Pass
4**	7446.488	42.67	54.0	11.33	AV	77.00	150	Horizontal	Pass
5	11934.075	51.56	74.0	22.44	Peak	161.00	150	Horizontal	Pass
5**	11934.075	43.51	54.0	10.49	AV	161.00	150	Horizontal	Pass
6	15513.075	55.74	74.0	18.26	Peak	0.00	150	Horizontal	Pass
6**	15513.075	45.70	54.0	8.30	AV	0.00	150	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	1440.700	45.52	74.0	28.48	Peak	87.00	150	Vertical	Pass
1**	1440.700	37.63	54.0	16.37	AV	87.00	150	Vertical	Pass
2	3888.800	50.55	74.0	23.45	Peak	306.00	150	Vertical	Pass
2**	3888.800	40.82	54.0	13.18	AV	306.00	150	Vertical	Pass
3	5801.600	100.46	--	--	Peak	133.00	150	Vertical	N/A
3**	5801.600	92.09	--	--	AV	133.00	150	Vertical	N/A
4	7448.500	50.77	74.0	23.23	Peak	209.00	150	Vertical	Pass
4**	7448.500	40.92	54.0	13.08	AV	209.00	150	Vertical	Pass
5	11501.963	52.29	74.0	21.71	Peak	191.00	150	Vertical	Pass
5**	11501.963	42.41	54.0	11.59	AV	191.00	150	Vertical	Pass
6	15529.875	54.94	74.0	19.06	Peak	173.00	150	Vertical	Pass
6**	15529.875	45.80	54.0	8.20	AV	173.00	150	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

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

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

SISO-Antenna 1

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	5137.000	57.75	74.0	16.25	Peak	249.00	200	Vertical	Pass
1**	5137.000	46.53	54.0	7.47	AV	249.00	200	Vertical	Pass
2	5150.000	55.53	74.0	18.47	Peak	22.00	100	Vertical	Pass
2**	5150.000	46.28	54.0	7.72	AV	22.00	100	Vertical	Pass
3	4800.300	55.87	74.0	18.13	Peak	95.00	150	Vertical	Pass
3**	4800.300	48.08	54.0	5.92	AV	95.00	150	Vertical	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	57.06	74.0	16.94	Peak	184.00	100	Vertical	Pass
1**	5350.000	45.82	54.0	8.18	AV	184.00	100	Vertical	Pass
2	5447.790	58.63	74.0	15.37	Peak	228.00	150	Vertical	Pass
2**	5447.790	46.34	54.0	7.66	AV	228.00	150	Vertical	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	5073.625	58.21	74.0	15.79	Peak	4.00	150	Vertical	Pass
1**	5073.625	46.18	54.0	7.82	AV	4.00	150	Vertical	Pass
2	5150.000	55.55	74.0	18.45	Peak	4.00	100	Vertical	Pass
2**	5150.000	46.30	54.0	7.70	AV	4.00	100	Vertical	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	55.27	74.0	18.73	Peak	31.00	100	Vertical	Pass
1**	5350.000	45.39	54.0	8.61	AV	31.00	100	Vertical	Pass
2	5457.910	58.26	74.0	15.74	Peak	318.00	150	Vertical	Pass
2**	5457.910	46.73	54.0	7.27	AV	318.00	150	Vertical	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	5143.175	57.88	74.0	16.12	Peak	274.00	100	Vertical	Pass
1**	5143.175	46.36	54.0	7.64	AV	274.00	100	Vertical	Pass
2	5150.000	56.16	74.0	17.84	Peak	67.00	150	Vertical	Pass
2**	5150.000	46.02	54.0	7.98	AV	67.00	150	Vertical	Pass
3	4800.300	56.30	74.0	17.70	Peak	334.00	150	Vertical	Pass
3**	4800.300	48.39	54.0	5.61	AV	334.00	150	Vertical	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	5350.055	55.15	74.0	18.85	Peak	38.00	200	Vertical	Pass
1**	5350.055	45.65	54.0	8.35	AV	38.00	200	Vertical	Pass
2	5424.470	57.96	74.0	16.04	Peak	139.00	150	Vertical	Pass
2**	5424.470	46.40	54.0	7.60	AV	139.00	150	Vertical	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	5147.075	58.23	74.0	15.77	Peak	0.00	100	Vertical	Pass
1**	5147.075	46.46	54.0	7.54	AV	0.00	100	Vertical	Pass
2	5150.000	56.15	74.0	17.85	Peak	312.00	150	Vertical	Pass
2**	5150.000	46.14	54.0	7.86	AV	312.00	150	Vertical	Pass
3	4800.300	56.64	74.0	17.36	Peak	164.00	150	Vertical	Pass
3**	4800.300	48.19	54.0	5.81	AV	164.00	150	Vertical	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	55.24	74.0	18.76	Peak	248.00	100	Vertical	Pass
1**	5350.000	45.64	54.0	8.36	AV	248.00	100	Vertical	Pass
2	5376.565	58.51	74.0	15.49	Peak	111.00	150	Vertical	Pass
2**	5376.565	46.07	54.0	7.93	AV	111.00	150	Vertical	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	5052.500	57.58	74.0	16.42	Peak	18.00	150	Vertical	Pass
1**	5052.500	45.86	54.0	8.14	AV	18.00	150	Vertical	Pass
2	5150.000	55.16	74.0	18.84	Peak	21.00	200	Vertical	Pass
2**	5150.000	46.16	54.0	7.84	AV	21.00	200	Vertical	Pass
3	4824.350	54.38	74.0	19.62	Peak	256.00	150	Vertical	Pass
3**	4824.350	48.61	54.0	5.39	AV	256.00	150	Vertical	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	56.21	74.0	17.79	Peak	36.00	200	Vertical	Pass
1**	5350.000	45.31	54.0	8.69	AV	36.00	200	Vertical	Pass
2	5430.245	58.11	74.0	15.89	Peak	201.00	200	Vertical	Pass
2**	5430.245	46.34	54.0	7.66	AV	201.00	200	Vertical	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	5626.000	58.73	68.2	9.47	Peak	48.00	100	Vertical	Pass
2	5650.000	55.91	68.2	12.29	Peak	258.00	100	Vertical	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	5924.950	56.11	68.2	12.09	Peak	278.00	100	Vertical	Pass
2	5943.250	59.06	68.2	9.14	Peak	305.00	200	Vertical	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	5646.600	58.03	68.2	10.17	Peak	100.00	200	Vertical	Pass
2	5650.000	56.96	68.2	11.24	Peak	0.00	100	Vertical	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	5924.950	56.46	68.2	11.74	Peak	102.00	150	Vertical	Pass
2	5932.250	58.71	68.2	9.49	Peak	105.00	100	Vertical	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	5645.350	58.49	68.2	9.71	Peak	202.00	100	Vertical	Pass
2	5650.000	56.00	68.2	12.20	Peak	48.00	100	Vertical	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	5924.950	56.33	68.2	11.87	Peak	139.00	200	Vertical	Pass
2	5929.500	58.31	68.2	9.89	Peak	201.00	200	Vertical	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	5646.200	58.28	68.2	9.92	Peak	47.00	150	Vertical	Pass
2	5650.000	55.87	68.2	12.33	Peak	127.00	150	Vertical	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	5924.950	56.55	68.2	11.65	Peak	96.00	200	Vertical	Pass
2	5949.700	58.42	68.2	9.78	Peak	218.00	200	Vertical	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	5642.400	58.85	68.2	9.35	Peak	110.00	150	Vertical	Pass
2	5650.000	56.37	68.2	11.83	Peak	175.00	200	Vertical	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	5924.950	56.16	68.2	12.04	Peak	353.00	150	Vertical	Pass
2	5929.850	59.11	68.2	9.09	Peak	175.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2530227-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2530227-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2530227-AI.PDF”.

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