



中国认可
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检测
TESTING
CNAS L6791

TEST REPORT

Applicant: Ugreen Group Limited
Address: URGEEN Building, Longcheng Industrial Park,
Longguanxi Road, Longhua, ShenZhen, China
Equipment Type: AC1300 USB High Gain Dual Band Wi-Fi Adapter
Model Name: CM493
Brand Name: **UGREEN**
FCC ID: 2AQI5-50341
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Jan. 03, 2025
Test Date: Jan. 06, 2025 - Jan. 09, 2025
Date of Issue: Feb. 28, 2025

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>Feb. 28, 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	Ugreen Group Limited
Address	URGEEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

2.2 Manufacturer Information

Manufacturer	Ugreen Group Limited
Address	URGEEN Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

2.3 Factory Information

Factory	Dingnan county Fulong Technology co., Ltd.
Address	Yingtangindustry park, Qinghua Blvd Liangfu industrydistrict, Lishitown, Dingnan, GanZhou, JiangXi province, P.R. China

2.4 General Description for Equipment under Test (EUT)

EUT Name	AC1300 USB High Gain Dual Band Wi-Fi Adapter
Model Name Under Test	CM493
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

Remark:

- Product Number (P/N) code in the below table, for marketing purpose, will be marked on the marking plate.

50341	50341EU	50341UK	50341US	50341JP	50341CN	50341KC	50341A	50341B	50341C	50341P	50341X	50341U
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2.5 Technical Information

Network and Wireless connectivity	WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-3: 5725 MHz to 5850 MHz	
Product Type	☐ Mobile ☒ Portable ☐ Fix Location	
Modulation technology	OFDM	
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK	
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36/ 24/ 18/ 12/ 9/ 6 Mbps 802.11n: up to 150 Mbps 802.11ac: up to VHT-MCS9	
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz	
Maximum Output Power	U-NII-1: 24.83 mW U-NII-2A: 25.06 mW U-NII-3: 25.76 mW	
Antenna System (eg., MIMO, Smart Antenna)	Cyclic Delay Diversity (CDD) for 802.11a Multi Input Multi Output (MIMO) for 802.11n/ac	
Categorization as Correlated or Completely Uncorrelated	Categorization as Correlated for 802.11a Categorization as Uncorrelated for 802.11n/ac	
Antenna Type	SISO- Antenna A	Dipole Antenna
	SISO- Antenna B	
Antenna Gain	SISO- Antenna A	U-NII-1: 5150 MHz to 5250 MHz: 5.80 dBi U-NII-2A: 5250 MHz to 5350 MHz: 5.80 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.91 dBi
	SISO- Antenna B	
Total directional gain	For power spectral density (PSD) measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 8.81 dBi U-NII-2A: 5250 MHz to 5350 MHz: 8.81 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.80 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 8.92 dBi U-NII-2A: 5250 MHz to 5350 MHz: 8.92 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.91 dBi

		Formulas: Directional gain = G_{ANT}
	For power measurements	Correlated: U-NII-1: 5150 MHz to 5250 MHz: 8.81 dBi U-NII-2A: 5250 MHz to 5350 MHz: 8.81 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.80 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated: U-NII-1: 5150 MHz to 5250 MHz: 8.92 dBi U-NII-2A: 5250 MHz to 5350 MHz: 8.92 dBi U-NII-3: 5725 MHz to 5850 MHz: 5.91 dBi Formulas: Directional gain = G_{ANT}
About the Product		The equipment is AC1300 USB High Gain Dual Band Wi-Fi Adapter, intended for used with information technology equipment.

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

Note: The above EUT information in section 2.5 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.6 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	58	5290
44	5220	54	5270	155	5775
48	5240	62	5310		
52	5260	151	5755		
56	5280	159	5795		
60	5300				
64	5320				
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-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	52	Low	5260
44	Mid	5220	60	Mid	5300
48	High	5240	64	High	5320

U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)
149	Low	5745
157	Mid	5785
165	High	5825

For 802.11n(HT40)/ac(VHT40)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	54	Low	5270
46	High	5230	62	High	5310

U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)
151	Low	5755
159	High	5795

For 802.11ac(VHT80)

U-NII-1 (5150 - 5250 MHz)			U-NII-2A (5250 - 5350 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Mid	5210	58	Mid	5290

U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)
155	Mid	5775

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-3
				Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	159/151
	11ac(80 MHz)	29.3		42	58	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	159/151
	11ac(80 MHz)	29.3		42	58	155
6 dB bandwidth	11a	6	BPSK	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	159/151
	11ac(20 MHz)	6.5		N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	159/151
	11ac(80 MHz)	29.3		N/A	N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	159/151
	11ac(80 MHz)	29.3		42	58	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	159/151
	11ac(80 MHz)	29.3		42	58	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	165/149
	11n(20 MHz)	6.5		48/36	64/52	165/149
	11n(40 MHz)	13.5		46/38	62/54	159/151
	11ac(20 MHz)	6.5		48/36	64/52	165/149
	11ac(40 MHz)	13.5		46/38	62/54	159/151
	11ac(80 MHz)	29.3		42	58	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

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

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note1}
2	RF Output Power	15.407(a)	5.1.4	Pass
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	5.2.4	Pass
4	6 dB bandwidth	15.407(e)	5.2.4	Pass
5	Power Spectral Density	15.407(a)	5.3.4	Pass
6	Conducted Emission	15.207	5.4.4	Pass
7	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	5.5.4	Pass

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

Note²: Under all normal operating conditions specified in the user manual, frequency stability can keep radiation within the operating frequency band.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	35% to 54%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+16.8°C to +24.6°C
Working Voltage of the EUT	NV (Normal Voltage)	5.0 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2024.08.01	2025.07.31
Power Sensor	KEYSIGHT	U2063XA	MY58000251	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2022.02.23	2025.02.22
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-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2025.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2022.02.19	2025.02.18

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℃
Humidity	4%

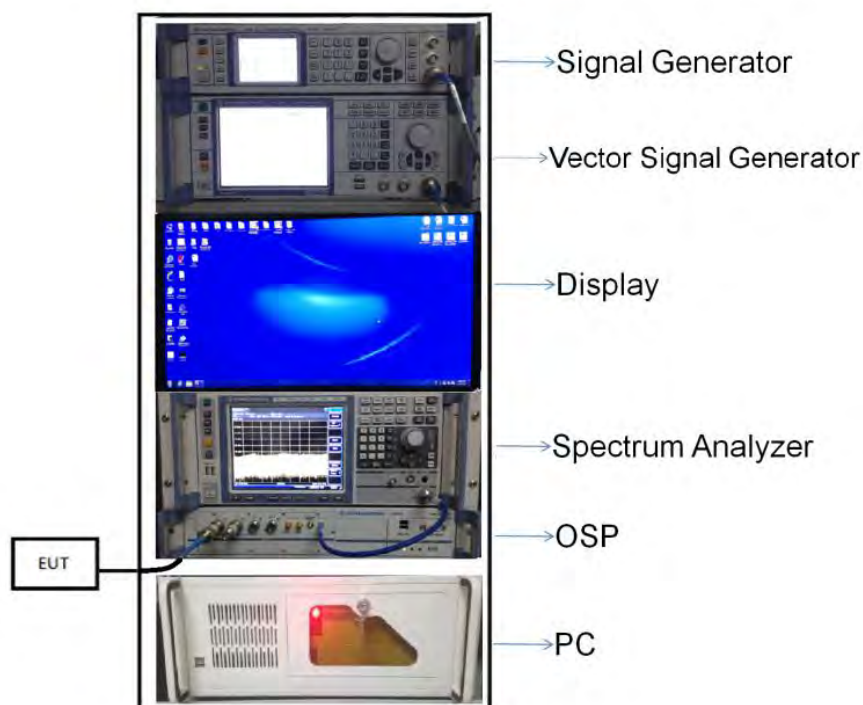
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

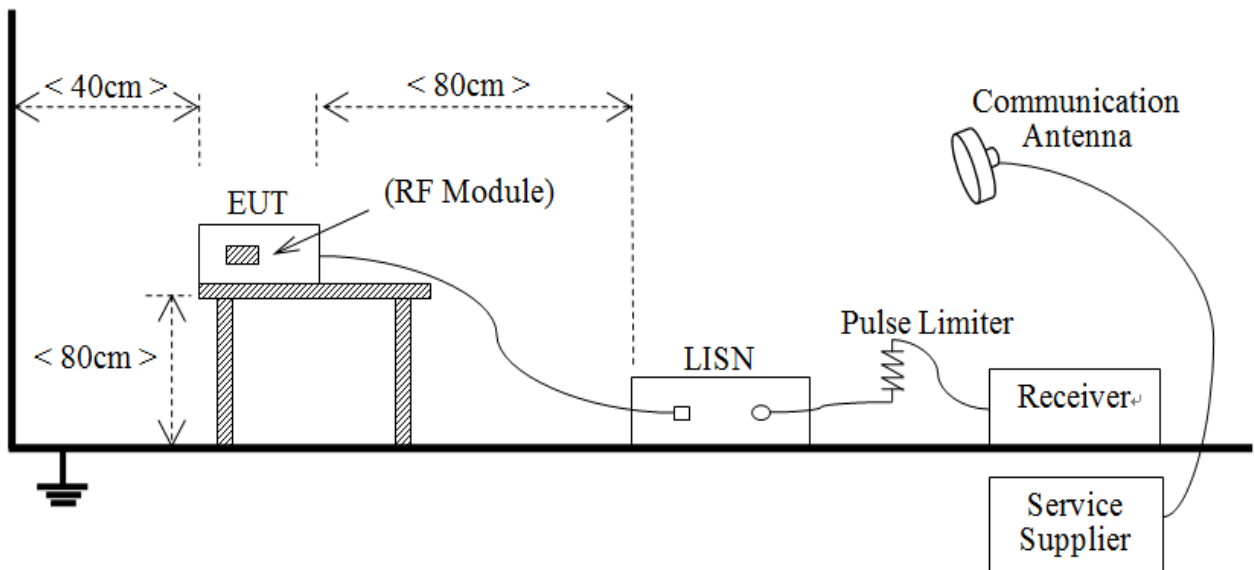
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



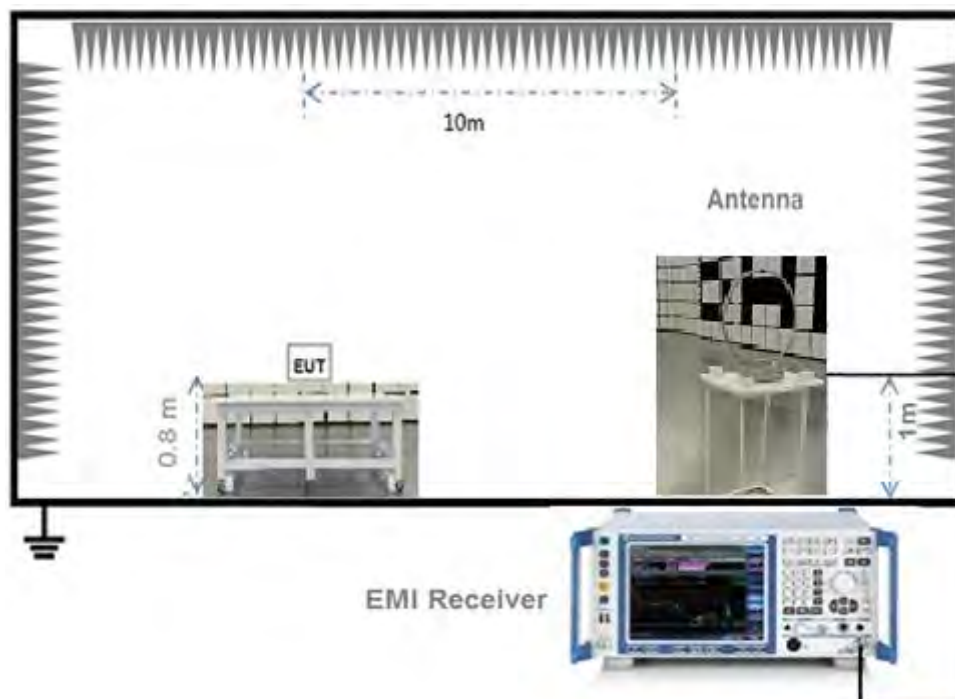
(Diagram 1)

4.5.2 For AC Power Supply Port Test



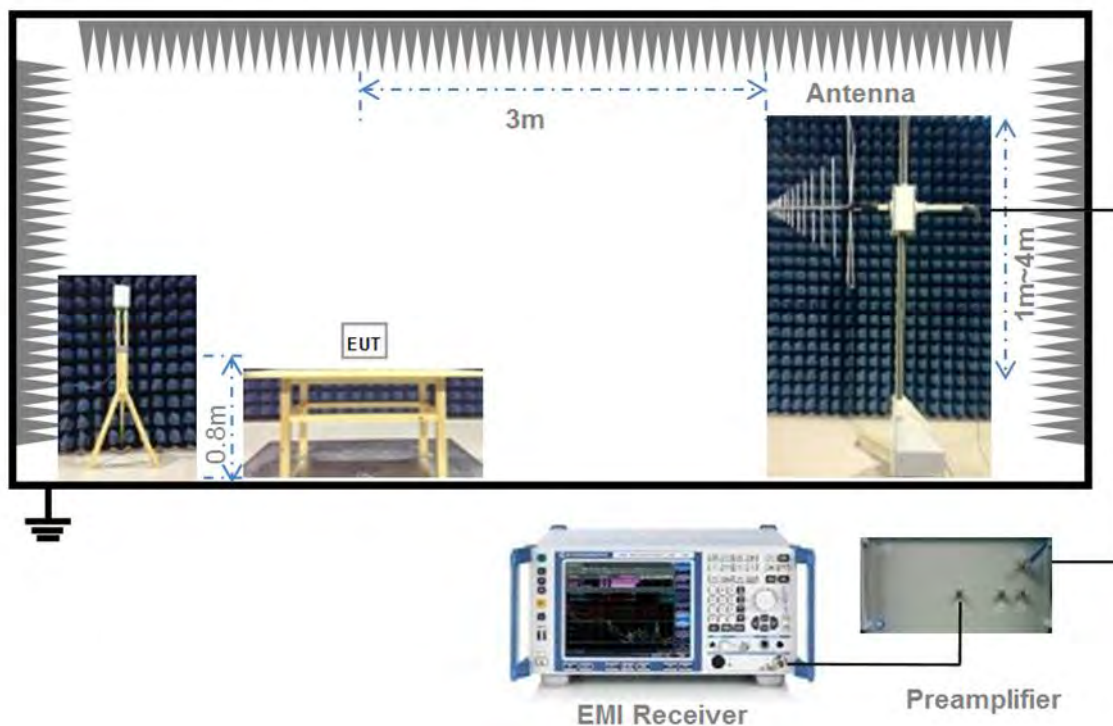
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



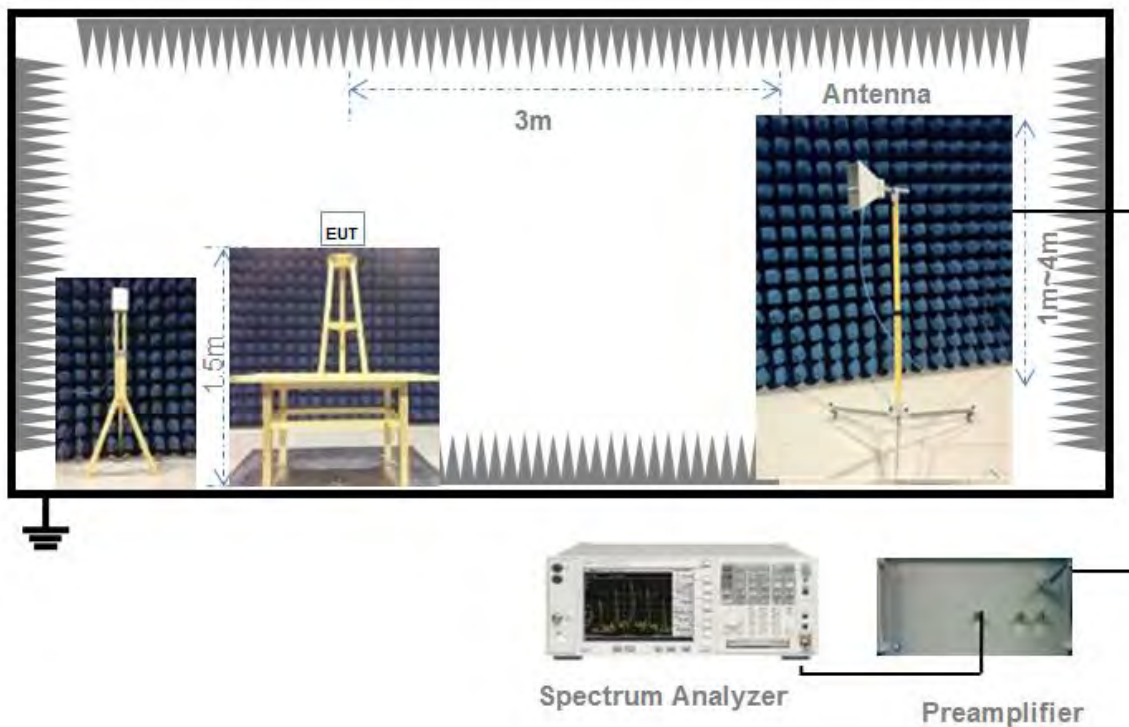
(Diagram 3)

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 A.

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

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

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle	Duty Factor
11a	1.35	1.41	95.69%	0.19
11n (HT20)/11ac (VHT20)	1.26	1.32	95.46%	0.20
11n (HT40)/11ac (VHT40)	0.63	0.68	91.86%	0.37
11ac (VHT80)	0.32	0.37	85.53%	0.68

Test DataConducted PowerSISO-Antenna A

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.94	24.77	250	Pass
11a	CH44	13.67	23.28	250	Pass
11a	CH48	13.83	24.15	250	Pass
11n (HT20)	CH36	13.95	24.83	250	Pass
11n (HT20)	CH44	13.70	23.44	250	Pass
11n (HT20)	CH48	13.92	24.66	250	Pass
11n (HT40)	CH38	12.72	18.71	250	Pass
11n (HT40)	CH46	12.84	19.23	250	Pass
11ac (VHT20)	CH36	13.93	24.72	250	Pass
11ac (VHT20)	CH44	13.65	23.17	250	Pass
11ac (VHT20)	CH48	13.54	22.59	250	Pass
11ac (VHT40)	CH38	12.61	18.24	250	Pass
11ac (VHT40)	CH46	12.94	19.68	250	Pass
11ac (VHT80)	CH42	11.82	15.21	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.68	23.33	250	Pass
11a	CH60	13.78	23.88	250	Pass
11a	CH64	13.51	22.44	250	Pass
11n (HT20)	CH52	13.91	24.60	250	Pass
11n (HT20)	CH60	13.65	23.17	250	Pass
11n (HT20)	CH64	13.56	22.70	250	Pass
11n (HT40)	CH54	12.92	19.59	250	Pass
11n (HT40)	CH62	12.72	18.71	250	Pass
11ac (VHT20)	CH52	13.68	23.33	250	Pass
11ac (VHT20)	CH60	13.54	22.59	250	Pass
11ac (VHT20)	CH64	13.54	22.59	250	Pass
11ac (VHT40)	CH54	12.94	19.68	250	Pass
11ac (VHT40)	CH62	12.81	19.10	250	Pass
11ac (VHT80)	CH58	11.86	15.35	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.59	22.86	1000	Pass
11a	CH157	13.93	24.72	1000	Pass
11a	CH165	13.81	24.04	1000	Pass
11n (HT20)	CH149	13.63	23.07	1000	Pass
11n (HT20)	CH157	13.82	24.10	1000	Pass
11n (HT20)	CH165	13.49	22.34	1000	Pass
11n (HT40)	CH151	12.91	19.54	1000	Pass
11n (HT40)	CH159	12.95	19.72	1000	Pass
11ac (VHT20)	CH149	13.60	22.91	1000	Pass
11ac (VHT20)	CH157	13.82	24.10	1000	Pass
11ac (VHT20)	CH165	13.55	22.65	1000	Pass
11ac (VHT40)	CH151	12.92	19.59	1000	Pass
11ac (VHT40)	CH159	12.61	18.24	1000	Pass
11ac (VHT80)	CH155	11.53	14.22	1000	Pass

SISO-Antenna B

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.81	24.04	250	Pass
11a	CH44	13.84	24.21	250	Pass
11a	CH48	13.93	24.72	250	Pass
11n (HT20)	CH36	13.86	24.32	250	Pass
11n (HT20)	CH44	13.79	23.93	250	Pass
11n (HT20)	CH48	13.89	24.49	250	Pass
11n (HT40)	CH38	12.97	19.82	250	Pass
11n (HT40)	CH46	12.97	19.82	250	Pass
11ac (VHT20)	CH36	13.80	23.99	250	Pass
11ac (VHT20)	CH44	13.84	24.21	250	Pass
11ac (VHT20)	CH48	13.85	24.27	250	Pass
11ac (VHT40)	CH38	12.79	19.01	250	Pass
11ac (VHT40)	CH46	12.83	19.19	250	Pass
11ac (VHT80)	CH42	11.85	15.31	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.75	23.71	250	Pass
11a	CH60	13.74	23.66	250	Pass
11a	CH64	13.65	23.17	250	Pass
11n (HT20)	CH52	13.91	24.60	250	Pass
11n (HT20)	CH60	13.92	24.66	250	Pass
11n (HT20)	CH64	13.81	24.04	250	Pass
11n (HT40)	CH54	12.64	18.37	250	Pass
11n (HT40)	CH62	12.78	18.97	250	Pass
11ac (VHT20)	CH52	13.87	24.38	250	Pass
11ac (VHT20)	CH60	13.85	24.27	250	Pass
11ac (VHT20)	CH64	13.79	23.93	250	Pass
11ac (VHT40)	CH54	12.71	18.66	250	Pass
11ac (VHT40)	CH62	12.86	19.32	250	Pass
11ac (VHT80)	CH58	11.89	15.45	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.94	24.77	1000	Pass
11a	CH157	13.84	24.21	1000	Pass
11a	CH165	13.83	24.15	1000	Pass
11n (HT20)	CH149	13.91	24.60	1000	Pass
11n (HT20)	CH157	13.87	24.38	1000	Pass
11n (HT20)	CH165	13.88	24.43	1000	Pass
11n (HT40)	CH151	12.76	18.88	1000	Pass
11n (HT40)	CH159	12.71	18.66	1000	Pass
11ac (VHT20)	CH149	13.89	24.49	1000	Pass
11ac (VHT20)	CH157	13.85	24.27	1000	Pass
11ac (VHT20)	CH165	13.76	23.77	1000	Pass
11ac (VHT40)	CH151	12.81	19.10	1000	Pass
11ac (VHT40)	CH159	12.74	18.79	1000	Pass
11ac (VHT80)	CH155	11.87	15.38	1000	Pass

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U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.72	11.80	130.92	Pass
11a	CH44	10.91	12.33	130.92	Pass
11a	CH48	10.65	11.61	130.92	Pass
11n (HT20)	CH36	10.63	11.56	250	Pass
11n (HT20)	CH44	10.30	10.72	250	Pass
11n (HT20)	CH48	10.10	10.23	250	Pass
11n (HT40)	CH38	9.61	9.14	250	Pass
11n (HT40)	CH46	9.65	9.23	250	Pass
11ac (VHT20)	CH36	10.89	12.27	250	Pass
11ac (VHT20)	CH44	10.84	12.13	250	Pass
11ac (VHT20)	CH48	10.75	11.89	250	Pass
11ac (VHT40)	CH38	9.75	9.44	250	Pass
11ac (VHT40)	CH46	9.69	9.31	250	Pass
11ac (VHT80)	CH42	8.74	7.48	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	10.94	12.42	130.92	Pass
11a	CH60	10.97	12.50	130.92	Pass
11a	CH64	10.96	12.47	130.92	Pass
11n (HT20)	CH52	10.89	12.27	250	Pass
11n (HT20)	CH60	10.84	12.13	250	Pass
11n (HT20)	CH64	10.79	11.99	250	Pass
11n (HT40)	CH54	9.86	9.68	250	Pass
11n (HT40)	CH62	9.86	9.68	250	Pass
11ac (VHT20)	CH52	10.86	12.19	250	Pass
11ac (VHT20)	CH60	10.84	12.13	250	Pass
11ac (VHT20)	CH64	10.74	11.86	250	Pass
11ac (VHT40)	CH54	9.12	8.17	250	Pass
11ac (VHT40)	CH62	9.65	9.23	250	Pass
11ac (VHT80)	CH58	8.91	7.78	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	11.08	12.82	510.51	Pass
11a	CH157	11.06	12.76	510.51	Pass
11a	CH165	11.16	13.06	510.51	Pass
11n (HT20)	CH149	11.05	12.74	1000	Pass
11n (HT20)	CH157	10.87	12.22	1000	Pass
11n (HT20)	CH165	10.60	11.48	1000	Pass
11n (HT40)	CH151	9.98	9.95	1000	Pass
11n (HT40)	CH159	10.01	10.02	1000	Pass
11ac (VHT20)	CH149	11.03	12.68	1000	Pass
11ac (VHT20)	CH157	10.99	12.56	1000	Pass
11ac (VHT20)	CH165	10.99	12.56	1000	Pass
11ac (VHT40)	CH151	10.28	10.67	1000	Pass
11ac (VHT40)	CH159	9.99	9.98	1000	Pass
11ac (VHT80)	CH155	9.37	8.65	1000	Pass

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U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.89	12.27	130.92	Pass
11a	CH44	10.66	11.64	130.92	Pass
11a	CH48	10.74	11.86	130.92	Pass
11n (HT20)	CH36	10.86	12.19	250	Pass
11n (HT20)	CH44	10.70	11.75	250	Pass
11n (HT20)	CH48	10.91	12.33	250	Pass
11n (HT40)	CH38	9.79	9.53	250	Pass
11n (HT40)	CH46	9.77	9.48	250	Pass
11ac (VHT20)	CH36	10.82	12.08	250	Pass
11ac (VHT20)	CH44	10.72	11.80	250	Pass
11ac (VHT20)	CH48	10.57	11.40	250	Pass
11ac (VHT40)	CH38	9.99	9.98	250	Pass
11ac (VHT40)	CH46	9.83	9.62	250	Pass
11ac (VHT80)	CH42	8.85	7.67	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	10.61	11.51	130.92	Pass
11a	CH60	10.98	12.53	130.92	Pass
11a	CH64	10.97	12.50	130.92	Pass
11n (HT20)	CH52	10.69	11.72	250	Pass
11n (HT20)	CH60	10.84	12.13	250	Pass
11n (HT20)	CH64	10.87	12.22	250	Pass
11n (HT40)	CH54	9.88	9.73	250	Pass
11n (HT40)	CH62	9.86	9.68	250	Pass
11ac (VHT20)	CH52	10.71	11.78	250	Pass
11ac (VHT20)	CH60	10.85	12.16	250	Pass
11ac (VHT20)	CH64	10.91	12.33	250	Pass
11ac (VHT40)	CH54	9.72	9.38	250	Pass
11ac (VHT40)	CH62	9.69	9.31	250	Pass
11ac (VHT80)	CH58	8.85	7.67	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	11.10	12.88	510.51	Pass
11a	CH157	10.99	12.56	510.51	Pass
11a	CH165	11.04	12.71	510.51	Pass
11n (HT20)	CH149	11.09	12.85	1000	Pass
11n (HT20)	CH157	10.90	12.30	1000	Pass
11n (HT20)	CH165	10.80	12.02	1000	Pass
11n (HT40)	CH151	10.15	10.35	1000	Pass
11n (HT40)	CH159	10.13	10.30	1000	Pass
11ac (VHT20)	CH149	11.07	12.79	1000	Pass
11ac (VHT20)	CH157	10.94	12.42	1000	Pass
11ac (VHT20)	CH165	10.89	12.27	1000	Pass
11ac (VHT40)	CH151	10.24	10.57	1000	Pass
11ac (VHT40)	CH159	10.18	10.42	1000	Pass
11ac (VHT80)	CH155	9.41	8.73	1000	Pass

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U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.82	24.08	130.92	Pass
11a	CH44	13.80	23.97	130.92	Pass
11a	CH48	13.71	23.47	130.92	Pass
11n (HT20)	CH36	13.76	23.75	250	Pass
11n (HT20)	CH44	13.51	22.46	250	Pass
11n (HT20)	CH48	13.53	22.56	250	Pass
11n (HT40)	CH38	12.71	18.67	250	Pass
11n (HT40)	CH46	12.72	18.71	250	Pass
11ac (VHT20)	CH36	13.87	24.35	250	Pass
11ac (VHT20)	CH44	13.79	23.94	250	Pass
11ac (VHT20)	CH48	13.67	23.29	250	Pass
11ac (VHT40)	CH38	12.88	19.42	250	Pass
11ac (VHT40)	CH46	12.77	18.93	250	Pass
11ac (VHT80)	CH42	11.81	15.16	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.79	23.92	130.92	Pass
11a	CH60	13.99	25.03	130.92	Pass
11a	CH64	13.98	24.98	130.92	Pass
11n (HT20)	CH52	13.80	24.00	250	Pass
11n (HT20)	CH60	13.85	24.27	250	Pass
11n (HT20)	CH64	13.84	24.21	250	Pass
11n (HT40)	CH54	12.88	19.41	250	Pass
11n (HT40)	CH62	12.87	19.37	250	Pass
11ac (VHT20)	CH52	13.80	23.97	250	Pass
11ac (VHT20)	CH60	13.86	24.30	250	Pass
11ac (VHT20)	CH64	13.84	24.19	250	Pass
11ac (VHT40)	CH54	12.44	17.54	250	Pass
11ac (VHT40)	CH62	12.68	18.54	250	Pass
11ac (VHT80)	CH58	11.89	15.45	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	14.10	25.71	510.51	Pass
11a	CH157	14.04	25.32	510.51	Pass
11a	CH165	14.11	25.77	510.51	Pass
11n (HT20)	CH149	14.08	25.59	1000	Pass
11n (HT20)	CH157	13.90	24.52	1000	Pass
11n (HT20)	CH165	13.71	23.50	1000	Pass
11n (HT40)	CH151	13.08	20.31	1000	Pass
11n (HT40)	CH159	13.08	20.33	1000	Pass
11ac (VHT20)	CH149	14.06	25.47	1000	Pass
11ac (VHT20)	CH157	13.98	24.98	1000	Pass
11ac (VHT20)	CH165	13.95	24.83	1000	Pass
11ac (VHT40)	CH151	13.27	21.23	1000	Pass
11ac (VHT40)	CH159	13.10	20.40	1000	Pass
11ac (VHT80)	CH155	12.40	17.38	1000	Pass

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 A.

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

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2510102-602 Data Part 1.pdf”.

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

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Test Data (Emission Bandwidth)

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	20.89	16.62
11a	CH44	20.89	16.62
11a	CH48	20.79	16.62
11n (HT20)	CH36	21.03	17.68
11n (HT20)	CH44	21.00	17.68
11n (HT20)	CH48	21.00	17.68
11n (HT40)	CH38	44.08	36.78
11n (HT40)	CH46	43.95	36.79
11ac (VHT20)	CH36	21.20	17.71
11ac (VHT20)	CH44	21.20	17.72
11ac (VHT20)	CH48	21.13	17.72
11ac (VHT40)	CH38	44.05	36.78
11ac (VHT40)	CH46	43.98	36.79
11ac (VHT80)	CH42	83.55	76.34

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	20.80	16.62
11a	CH60	20.88	16.63
11a	CH64	20.87	16.63
11n (HT20)	CH52	20.99	17.68
11n (HT20)	CH60	20.99	17.68
11n (HT20)	CH64	21.00	17.69
11n (HT40)	CH54	43.97	36.78
11n (HT40)	CH62	43.91	36.81
11ac (VHT20)	CH52	21.13	17.71
11ac (VHT20)	CH60	21.17	17.72
11ac (VHT20)	CH64	21.17	17.71
11ac (VHT40)	CH54	43.79	36.66
11ac (VHT40)	CH62	43.75	36.68
11ac (VHT80)	CH58	83.45	76.27

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.85	16.63
11a	CH157	20.86	16.63
11a	CH165	20.91	16.63
11n (HT20)	CH149	21.01	17.68
11n (HT20)	CH157	21.01	17.69
11n (HT20)	CH165	21.01	17.69
11n (HT40)	CH151	43.94	36.78
11n (HT40)	CH159	43.85	36.78
11ac (VHT20)	CH149	21.21	17.71
11ac (VHT20)	CH157	21.18	17.72
11ac (VHT20)	CH165	21.18	17.72
11ac (VHT40)	CH151	43.74	36.67
11ac (VHT40)	CH159	43.70	36.71
11ac (VHT80)	CH155	84.00	76.34

Note1: Test plots please refer to the document "Annex No.: BL-SZ2510102-602 Data Part 2.pdf".

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

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Test Data (6 dB Bandwidth)

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.60	500.00	Pass
11a	CH157	16.60	500.00	Pass
11a	CH165	16.60	500.00	Pass
11n (HT20)	CH149	17.60	500.00	Pass
11n (HT20)	CH157	17.80	500.00	Pass
11n (HT20)	CH165	17.80	500.00	Pass
11n (HT40)	CH151	36.20	500.00	Pass
11n (HT40)	CH159	36.20	500.00	Pass
11ac (VHT20)	CH149	17.80	500.00	Pass
11ac (VHT20)	CH157	17.80	500.00	Pass
11ac (VHT20)	CH165	17.80	500.00	Pass
11ac (VHT40)	CH151	36.40	500.00	Pass
11ac (VHT40)	CH159	36.20	500.00	Pass
11ac (VHT80)	CH155	75.40	500.00	Pass

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 A.

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

Note 1: Test plots please refer to the document “Annex No.: BL-SZ2510102-602 Data Part 3.pdf”.

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

SISO-Antenna A

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	2.65	8.19	Pass
11a	CH44	2.27	8.19	Pass
11a	CH48	2.32	8.19	Pass
11n (HT20)	CH36	2.53	11.00	Pass
11n (HT20)	CH44	2.19	11.00	Pass
11n (HT20)	CH48	2.22	11.00	Pass
11n (HT40)	CH38	-1.73	11.00	Pass
11n (HT40)	CH46	-1.39	11.00	Pass
11ac (VHT20)	CH36	2.41	11.00	Pass
11ac (VHT20)	CH44	2.19	11.00	Pass
11ac (VHT20)	CH48	1.71	11.00	Pass
11ac (VHT40)	CH38	-1.80	11.00	Pass
11ac (VHT40)	CH46	-1.29	11.00	Pass
11ac (VHT80)	CH42	-4.45	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	2.16	8.19	Pass
11a	CH60	2.38	8.19	Pass
11a	CH64	2.00	8.19	Pass
11n (HT20)	CH52	2.15	11.00	Pass
11n (HT20)	CH60	2.01	11.00	Pass
11n (HT20)	CH64	2.02	11.00	Pass
11n (HT40)	CH54	-1.53	11.00	Pass
11n (HT40)	CH62	-1.63	11.00	Pass
11ac (VHT20)	CH52	1.55	11.00	Pass
11ac (VHT20)	CH60	1.92	11.00	Pass
11ac (VHT20)	CH64	1.88	11.00	Pass
11ac (VHT40)	CH54	-1.39	11.00	Pass
11ac (VHT40)	CH62	-1.21	11.00	Pass
11ac (VHT80)	CH58	-4.02	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	0.01	27.08	Pass
11a	CH157	0.37	27.08	Pass
11a	CH165	0.12	27.08	Pass
11n (HT20)	CH149	-0.38	30.00	Pass
11n (HT20)	CH157	-0.04	30.00	Pass
11n (HT20)	CH165	-0.31	30.00	Pass
11n (HT40)	CH151	-3.55	30.00	Pass
11n (HT40)	CH159	-3.50	30.00	Pass
11ac (VHT20)	CH149	-0.36	30.00	Pass
11ac (VHT20)	CH157	-0.08	30.00	Pass
11ac (VHT20)	CH165	-0.28	30.00	Pass
11ac (VHT40)	CH151	-3.54	30.00	Pass
11ac (VHT40)	CH159	-3.97	30.00	Pass
11ac (VHT80)	CH155	-6.71	30.00	Pass

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 A.

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

Note ¹: The EUT was tested in charging mode.

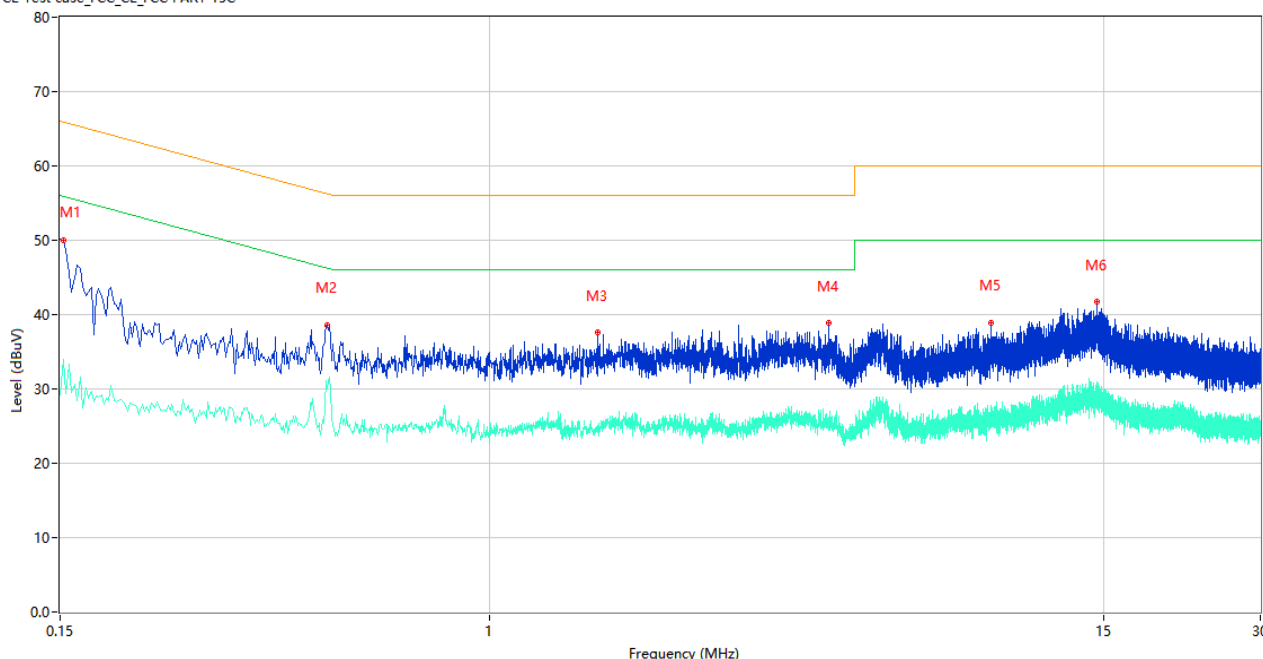
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

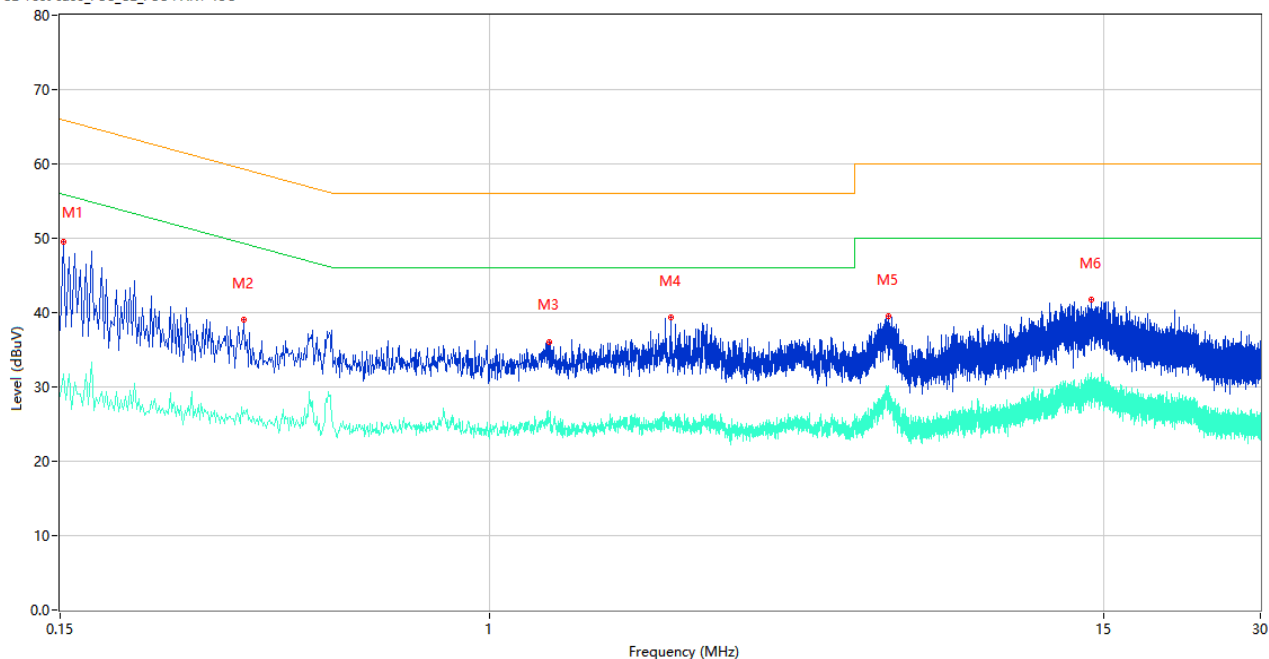
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	49.97	9.78	65.89	15.92	Peak	L	Pass
1**	0.152	33.96	9.78	55.89	21.93	AV	L	Pass
2	0.488	38.61	9.99	56.20	17.59	Peak	L	Pass
2**	0.488	30.08	9.99	46.20	16.12	AV	L	Pass
3	1.608	37.57	9.87	56.00	18.43	Peak	L	Pass
3**	1.608	24.22	9.87	46.00	21.78	AV	L	Pass
4	4.468	38.86	10.24	56.00	17.14	Peak	L	Pass
4**	4.468	26.25	10.24	46.00	19.75	AV	L	Pass
5	9.146	38.95	10.44	60.00	21.05	Peak	L	Pass
5**	9.146	27.02	10.44	50.00	22.98	AV	L	Pass
6	14.588	41.67	10.53	60.00	18.33	Peak	L	Pass
6**	14.588	29.92	10.53	50.00	20.08	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	0.152	49.55	9.78	65.89	16.34	Peak	N	Pass
1**	0.152	31.76	9.78	55.89	24.13	AV	N	Pass
2	0.338	38.98	10.52	59.25	20.27	Peak	N	Pass
2**	0.338	26.84	10.52	49.25	22.41	AV	N	Pass
3	1.298	36.11	10.51	56.00	19.89	Peak	N	Pass
3**	1.298	25.54	10.51	46.00	20.46	AV	N	Pass
4	2.222	39.36	10.05	56.00	16.64	Peak	N	Pass
4**	2.222	25.93	10.05	46.00	20.07	AV	N	Pass
5	5.816	39.51	10.20	60.00	20.49	Peak	N	Pass
5**	5.816	28.42	10.20	50.00	21.58	AV	N	Pass
6	14.240	41.74	10.58	60.00	18.26	Peak	N	Pass
6**	14.240	29.15	10.58	50.00	20.85	AV	N	Pass

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

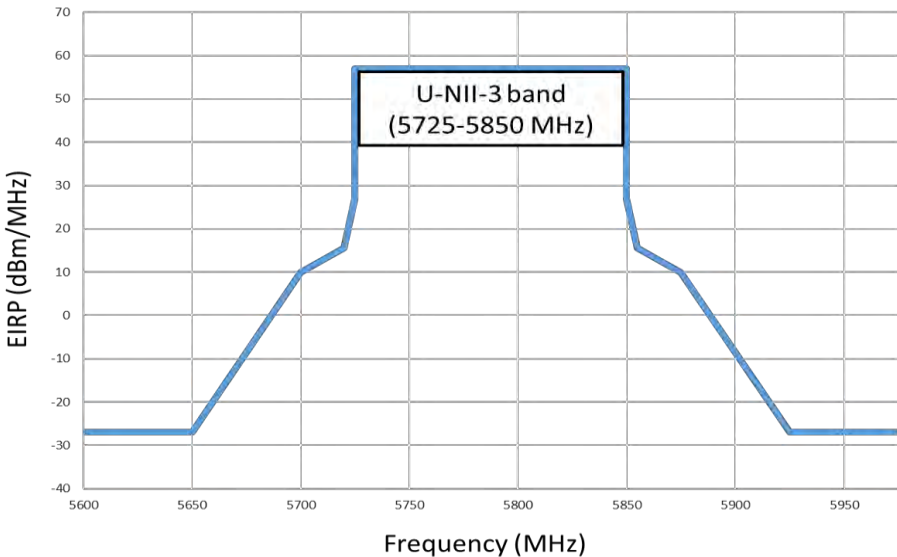
5.5.1 Limit

FCC §15.209 & 15.407(b), RSS-247, 6.2

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

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

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

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

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

As an alternative to CISPR quasi-peak measurement, compliance can be demonstrated to the applicable

emission limits using a peak detector.

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

If continuous transmission of the EUT (i.e., duty cycle ≥ 98 percent) cannot be achieved and the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent), then the following procedure shall be used:

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

For these cabinet radiated spurious emission measurements the EUT transmit antenna may be replaced with a termination matching the nominal impedance of the antenna. Procedures for performing radiated measurements are specified in ANSI C63.10. All detected emissions shall comply with the applicable limits.

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

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

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

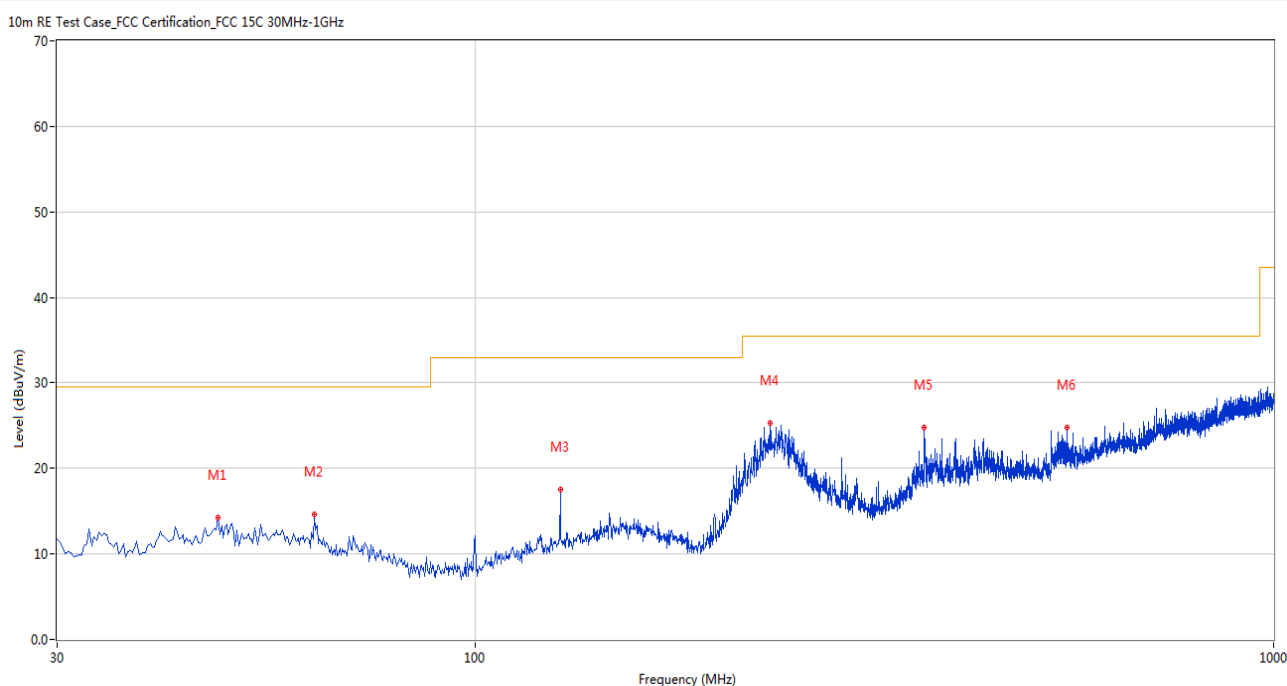
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT was tested in Link mode and the charging.

Note 5: 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

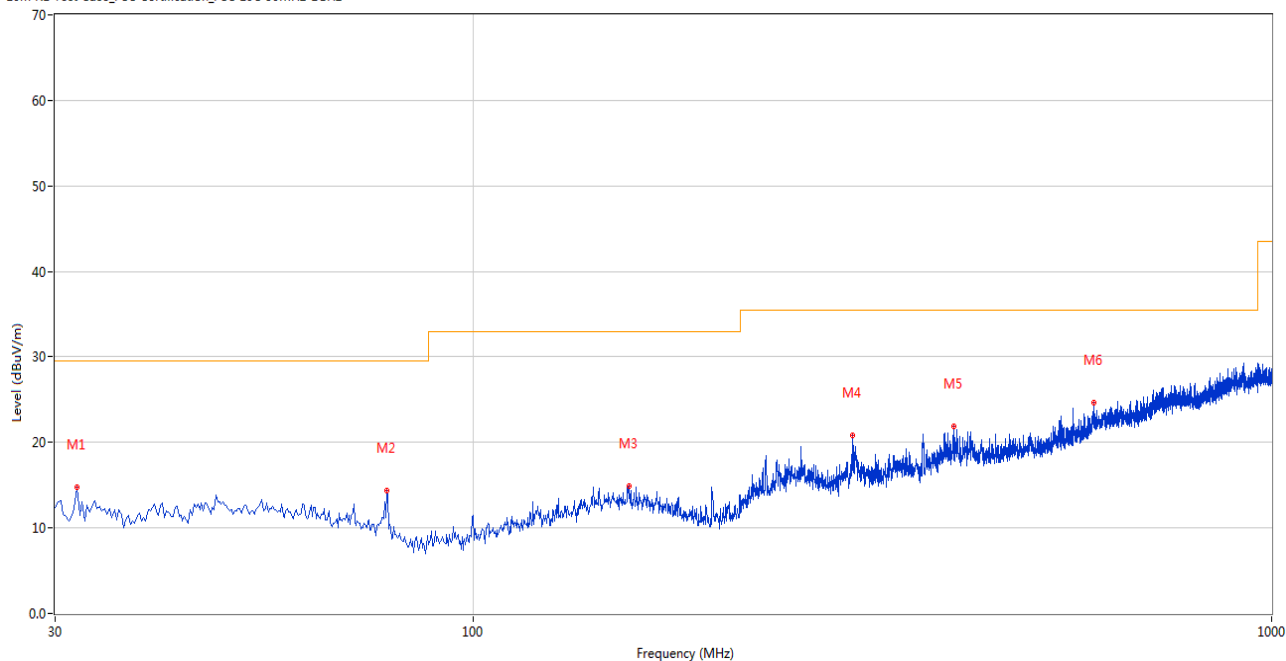
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	47.698	14.30	-26.12	29.5	15.20	Peak	323.00	100	Horizontal	Pass
2	62.972	14.61	-26.98	29.5	14.89	Peak	72.00	100	Horizontal	Pass
3	127.946	17.58	-27.27	33.0	15.42	Peak	199.00	100	Horizontal	Pass
4	234.376	25.37	-27.73	35.5	10.13	Peak	195.00	200	Horizontal	Pass
5	365.294	24.74	-23.24	35.5	10.76	Peak	146.00	200	Horizontal	Pass
6	551.487	24.81	-18.30	35.5	10.69	Peak	118.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	31.940	14.82	-27.60	29.5	14.68	Peak	360.00	100	Vertical	Pass
2	78.003	14.42	-29.88	29.5	15.08	Peak	360.00	200	Vertical	Pass
3	156.796	14.95	-25.56	33.0	18.05	Peak	144.00	100	Vertical	Pass
4	298.865	20.85	-24.81	35.5	14.65	Peak	35.00	100	Vertical	Pass
5	399.720	21.92	-22.39	35.5	13.58	Peak	69.00	100	Vertical	Pass
6	599.733	24.63	-16.59	35.5	10.87	Peak	0.00	100	Vertical	Pass

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

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

SISO-Antenna A

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	1568.600	38.87	74.0	35.13	Peak	292.00	200	Horizontal	Pass
1**	1568.600	29.06	54.0	24.94	AV	292.00	200	Horizontal	Pass
2	4123.000	50.51	74.0	23.49	Peak	41.00	400	Horizontal	Pass
2**	4123.000	40.23	54.0	13.77	AV	41.00	400	Horizontal	Pass
3	5185.600	95.96	--	--	Peak	336.00	200	Horizontal	N/A
3**	5185.600	88.29	--	--	AV	336.00	200	Horizontal	N/A
4	7333.500	50.65	74.0	23.35	Peak	0.00	300	Horizontal	Pass
4**	7333.500	41.14	54.0	12.86	AV	0.00	300	Horizontal	Pass
5	12497.000	52.72	74.0	21.28	Peak	360.00	200	Horizontal	Pass
5**	12497.000	43.66	54.0	10.34	AV	360.00	200	Horizontal	Pass
6	15820.463	55.23	74.0	18.77	Peak	245.00	100	Horizontal	Pass
6**	15820.463	45.89	54.0	8.11	AV	245.00	100	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	1330.500	43.93	74.0	30.07	Peak	184.00	100	Vertical	Pass
1**	1330.500	34.11	54.0	19.89	AV	184.00	100	Vertical	Pass
2	2657.900	52.76	68.2	15.44	Peak	239.00	100	Vertical	Pass
2**	2657.900	37.76	--	--	AV	239.00	100	Vertical	N/A
3	5174.000	99.50	--	--	Peak	360.00	200	Vertical	N/A
3**	5174.000	92.10	--	--	AV	360.00	200	Vertical	N/A
4	7506.575	50.83	74.0	23.17	Peak	360.00	200	Vertical	Pass
4**	7506.575	41.90	54.0	12.10	AV	360.00	200	Vertical	Pass
5	12406.438	52.11	74.0	21.89	Peak	360.00	100	Vertical	Pass
5**	12406.438	43.43	54.0	10.57	AV	360.00	100	Vertical	Pass
6	16006.313	55.07	74.0	18.93	Peak	335.00	400	Vertical	Pass
6**	16006.313	45.63	54.0	8.37	AV	335.00	400	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	1508.400	38.80	74.0	35.20	Peak	190.00	200	Horizontal	Pass
1**	1508.400	29.08	54.0	24.92	AV	190.00	200	Horizontal	Pass
2	3738.000	50.53	74.0	23.47	Peak	360.00	100	Horizontal	Pass
2**	3738.000	40.53	54.0	13.47	AV	360.00	100	Horizontal	Pass
3	5227.000	97.50	--	--	Peak	345.00	200	Horizontal	N/A
3**	5227.000	89.76	--	--	AV	345.00	200	Horizontal	N/A
4	7466.325	50.64	74.0	23.36	Peak	5.00	300	Horizontal	Pass
4**	7466.325	41.65	54.0	12.35	AV	5.00	300	Horizontal	Pass
5	11038.800	52.51	74.0	21.49	Peak	42.00	200	Horizontal	Pass
5**	11038.800	42.25	54.0	11.75	AV	42.00	200	Horizontal	Pass
6	16133.100	54.58	74.0	19.42	Peak	350.00	200	Horizontal	Pass
6**	16133.100	46.48	54.0	7.52	AV	350.00	200	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	1330.100	42.76	74.0	31.24	Peak	163.00	150	Vertical	Pass
1**	1330.100	33.99	54.0	20.01	AV	163.00	150	Vertical	Pass
2	2657.800	53.07	68.2	15.13	Peak	237.00	150	Vertical	Pass
2**	2657.800	40.10	--	--	AV	237.00	150	Vertical	N/A
3	5223.200	101.23	--	--	Peak	159.00	200	Vertical	N/A
3**	5223.200	93.26	--	--	AV	159.00	200	Vertical	N/A
4	7466.038	50.13	74.0	23.87	Peak	0.00	400	Vertical	Pass
4**	7466.038	41.19	54.0	12.81	AV	0.00	400	Vertical	Pass
5	12224.451	52.63	74.0	21.37	Peak	330.00	200	Vertical	Pass
5**	12224.451	42.44	54.0	11.56	AV	330.00	200	Vertical	Pass
6	15566.625	55.22	74.0	18.78	Peak	360.00	300	Vertical	Pass
6**	15566.625	45.78	54.0	8.22	AV	360.00	300	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	1504.100	39.46	74.0	34.54	Peak	356.00	100	Horizontal	Pass
1**	1504.100	29.96	54.0	24.04	AV	356.00	100	Horizontal	Pass
2	4358.000	50.65	74.0	23.35	Peak	316.00	400	Horizontal	Pass
2**	4358.000	41.18	54.0	12.82	AV	316.00	400	Horizontal	Pass
3	5244.400	98.73	--	--	Peak	339.00	100	Horizontal	N/A
3**	5244.400	89.29	--	--	AV	339.00	100	Horizontal	N/A
4	7507.438	50.93	74.0	23.07	Peak	58.00	400	Horizontal	Pass
4**	7507.438	40.84	54.0	13.16	AV	58.00	400	Horizontal	Pass
5	11816.776	51.79	74.0	22.21	Peak	58.00	200	Horizontal	Pass
5**	11816.776	42.45	54.0	11.55	AV	58.00	200	Horizontal	Pass
6	15520.687	55.38	74.0	18.62	Peak	148.00	100	Horizontal	Pass
6**	15520.687	45.69	54.0	8.31	AV	148.00	100	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	1331.300	45.11	74.0	28.89	Peak	166.00	150	Vertical	Pass
1**	1331.300	30.71	54.0	23.29	AV	166.00	150	Vertical	Pass
2	2660.000	54.37	68.2	13.83	Peak	236.00	150	Vertical	Pass
2**	2660.000	42.06	--	--	AV	236.00	150	Vertical	N/A
3	5242.800	99.38	--	--	Peak	156.00	100	Vertical	N/A
3**	5242.800	92.73	--	--	AV	156.00	100	Vertical	N/A
4	7451.950	51.12	74.0	22.88	Peak	249.00	200	Vertical	Pass
4**	7451.950	41.83	54.0	12.17	AV	249.00	200	Vertical	Pass
5	10926.387	52.26	74.0	21.74	Peak	249.00	200	Vertical	Pass
5**	10926.387	43.15	54.0	10.85	AV	249.00	200	Vertical	Pass
6	15829.913	54.77	74.0	19.23	Peak	20.00	200	Vertical	Pass
6**	15829.913	45.66	54.0	8.34	AV	20.00	200	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	1508.100	39.45	74.0	34.55	Peak	132.00	400	Horizontal	Pass
1**	1508.100	29.43	54.0	24.57	AV	132.00	400	Horizontal	Pass
2	4361.200	50.26	74.0	23.74	Peak	283.00	200	Horizontal	Pass
2**	4361.200	40.09	54.0	13.91	AV	283.00	200	Horizontal	Pass
3	5185.800	97.36	--	--	Peak	343.00	150	Horizontal	N/A
3**	5185.800	89.47	--	--	AV	343.00	150	Horizontal	N/A
4	7443.612	50.70	74.0	23.30	Peak	262.00	100	Horizontal	Pass
4**	7443.612	42.22	54.0	11.78	AV	262.00	100	Horizontal	Pass
5	11338.375	52.62	74.0	21.38	Peak	177.00	100	Horizontal	Pass
5**	11338.375	43.57	54.0	10.43	AV	177.00	100	Horizontal	Pass
6	15829.125	55.46	74.0	18.54	Peak	192.00	100	Horizontal	Pass
6**	15829.125	45.79	54.0	8.21	AV	192.00	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	1330.900	44.97	74.0	29.03	Peak	168.00	150	Vertical	Pass
1**	1330.900	36.13	54.0	17.87	AV	168.00	150	Vertical	Pass
2	1990.800	45.46	68.2	22.74	Peak	99.00	150	Vertical	Pass
2**	1990.800	32.27	--	--	AV	99.00	150	Vertical	N/A
3	2665.700	53.02	68.2	15.18	Peak	99.00	150	Vertical	Pass
3**	2665.700	39.40	--	--	AV	99.00	150	Vertical	N/A
4	5173.800	99.53	--	--	Peak	158.00	100	Vertical	N/A
4**	5173.800	92.91	--	--	AV	158.00	100	Vertical	N/A
5	10918.912	52.27	74.0	21.73	Peak	143.00	100	Vertical	Pass
5**	10918.912	43.00	54.0	11.00	AV	143.00	100	Vertical	Pass
6	16154.625	54.99	74.0	19.01	Peak	294.00	200	Vertical	Pass
6**	16154.625	44.73	54.0	9.27	AV	294.00	200	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	2657.800	46.22	68.2	21.98	Peak	356.00	150	Horizontal	Pass
1**	2657.800	37.74	--	--	AV	356.00	150	Horizontal	N/A
2	4111.800	50.30	74.0	23.70	Peak	254.00	100	Horizontal	Pass
2**	4111.800	40.01	54.0	13.99	AV	254.00	100	Horizontal	Pass
3	5225.200	97.72	--	--	Peak	351.00	100	Horizontal	N/A
3**	5225.200	90.06	--	--	AV	351.00	100	Horizontal	N/A
4	7394.450	50.15	74.0	23.85	Peak	43.00	200	Horizontal	Pass
4**	7394.450	40.92	54.0	13.08	AV	43.00	200	Horizontal	Pass
5	12606.250	52.32	74.0	21.68	Peak	267.00	200	Horizontal	Pass
5**	12606.250	43.30	54.0	10.70	AV	267.00	200	Horizontal	Pass
6	15821.250	55.28	74.0	18.72	Peak	106.00	100	Horizontal	Pass
6**	15821.250	46.25	54.0	7.75	AV	106.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.800	44.60	74.0	29.40	Peak	176.00	300	Vertical	Pass
1**	1328.800	34.67	54.0	19.33	AV	176.00	300	Vertical	Pass
2	1831.100	43.91	68.2	24.29	Peak	218.00	150	Vertical	Pass
2**	1831.100	33.53	--	--	AV	218.00	150	Vertical	N/A
3	2659.400	55.38	68.2	12.82	Peak	99.00	200	Vertical	Pass
3**	2659.400	40.45	--	--	AV	99.00	200	Vertical	N/A
4	5216.200	99.65	--	--	Peak	154.00	100	Vertical	N/A
4**	5216.200	92.47	--	--	AV	154.00	100	Vertical	N/A
5	10914.312	52.29	74.0	21.71	Peak	70.00	200	Vertical	Pass
5**	10914.312	42.65	54.0	11.35	AV	70.00	200	Vertical	Pass
6	17415.150	56.15	68.2	12.05	Peak	360.00	200	Vertical	Pass
6**	17415.150	46.81	--	--	AV	360.00	200	Vertical	N/A

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	1458.600	39.48	74.0	34.52	Peak	81.00	300	Horizontal	Pass
1**	1458.600	30.35	54.0	23.65	AV	81.00	300	Horizontal	Pass
2	2663.300	47.24	68.2	20.96	Peak	287.00	150	Horizontal	Pass
2**	2663.300	37.49	--	--	AV	287.00	150	Horizontal	N/A
3	5246.400	96.98	--	--	Peak	350.00	100	Horizontal	N/A
3**	5246.400	89.54	--	--	AV	350.00	100	Horizontal	N/A
4	7500.825	50.15	74.0	23.85	Peak	0.00	400	Horizontal	Pass
4**	7500.825	40.93	54.0	13.07	AV	0.00	400	Horizontal	Pass
5	11924.875	51.90	74.0	22.10	Peak	99.00	150	Horizontal	Pass
5**	11924.875	42.76	54.0	11.24	AV	99.00	150	Horizontal	Pass
6	15822.037	55.33	74.0	18.67	Peak	182.00	100	Horizontal	Pass
6**	15822.037	46.19	54.0	7.81	AV	182.00	100	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	1330.100	43.12	74.0	30.88	Peak	108.00	150	Vertical	Pass
1**	1330.100	34.10	54.0	19.90	AV	108.00	150	Vertical	Pass
2	2658.200	52.12	68.2	16.08	Peak	245.00	150	Vertical	Pass
2**	2658.200	41.95	--	--	AV	245.00	150	Vertical	N/A
3	5243.000	100.53	--	--	Peak	303.00	200	Vertical	N/A
3**	5243.000	92.15	--	--	AV	303.00	200	Vertical	N/A
4	6987.000	58.36	68.2	9.84	Peak	316.00	150	Vertical	Pass
4**	6987.000	53.37	--	--	AV	316.00	150	Vertical	N/A
5	10918.050	52.64	74.0	21.36	Peak	0.00	150	Vertical	Pass
5**	10918.050	43.01	54.0	10.99	AV	0.00	150	Vertical	Pass
6	16134.150	54.94	74.0	19.06	Peak	212.00	300	Vertical	Pass
6**	16134.150	45.35	54.0	8.65	AV	212.00	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	1530.500	39.10	74.0	34.90	Peak	262.00	100	Horizontal	Pass
1**	1530.500	29.60	54.0	24.40	AV	262.00	100	Horizontal	Pass
2	2659.800	47.61	68.2	20.59	Peak	349.00	150	Horizontal	Pass
2**	2659.800	36.21	--	--	AV	349.00	150	Horizontal	N/A
3	5205.600	93.69	--	--	Peak	342.00	100	Horizontal	N/A
3**	5205.600	86.37	--	--	AV	342.00	100	Horizontal	N/A
4	7446.200	50.98	74.0	23.02	Peak	310.00	100	Horizontal	Pass
4**	7446.200	41.90	54.0	12.10	AV	310.00	100	Horizontal	Pass
5	11942.412	52.22	74.0	21.78	Peak	0.00	200	Horizontal	Pass
5**	11942.412	42.99	54.0	11.01	AV	0.00	200	Horizontal	Pass
6	16095.825	55.06	74.0	18.94	Peak	193.00	100	Horizontal	Pass
6**	16095.825	45.89	54.0	8.11	AV	193.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1330.800	43.55	74.0	30.45	Peak	162.00	150	Vertical	Pass
1**	1330.800	31.93	54.0	22.07	AV	162.00	150	Vertical	Pass
2	1997.900	45.15	68.2	23.05	Peak	92.00	150	Vertical	Pass
2**	1997.900	33.12	--	--	AV	92.00	150	Vertical	N/A
3	2660.100	54.69	68.2	13.51	Peak	238.00	150	Vertical	Pass
3**	2660.100	44.52	--	--	AV	238.00	150	Vertical	N/A
4	5187.800	95.46	--	--	Peak	142.00	100	Vertical	N/A
4**	5187.800	87.77	--	--	AV	142.00	100	Vertical	N/A
5	7509.162	50.14	74.0	23.86	Peak	360.00	300	Vertical	Pass
5**	7509.162	41.36	54.0	12.64	AV	360.00	300	Vertical	Pass
6	15355.312	57.05	74.0	16.95	Peak	39.00	200	Vertical	Pass
6**	15355.312	45.27	54.0	8.73	AV	39.00	200	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	1551.000	39.00	74.0	35.00	Peak	14.00	200	Horizontal	Pass
1**	1551.000	30.53	54.0	23.47	AV	14.00	200	Horizontal	Pass
2	2664.100	46.97	68.2	21.23	Peak	360.00	150	Horizontal	Pass
2**	2664.100	35.43	--	--	AV	360.00	150	Horizontal	N/A
3	4385.200	50.64	74.0	23.36	Peak	262.00	100	Horizontal	Pass
3**	4385.200	40.84	54.0	13.16	AV	262.00	100	Horizontal	Pass
4	5243.600	93.23	--	--	Peak	341.00	150	Horizontal	N/A
4**	5243.600	86.31	--	--	AV	341.00	150	Horizontal	N/A
5	11955.925	52.18	74.0	21.82	Peak	85.00	200	Horizontal	Pass
5**	11955.925	42.65	54.0	11.35	AV	85.00	200	Horizontal	Pass
6	15823.875	55.05	74.0	18.95	Peak	0.00	200	Horizontal	Pass
6**	15823.875	46.54	54.0	7.46	AV	0.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.900	43.21	74.0	30.79	Peak	106.00	150	Vertical	Pass
1**	1328.900	33.48	54.0	20.52	AV	106.00	150	Vertical	Pass
2	2660.300	51.57	68.2	16.63	Peak	236.00	150	Vertical	Pass
2**	2660.300	42.04	--	--	AV	236.00	150	Vertical	N/A
3	3982.000	51.05	74.0	22.95	Peak	0.00	200	Vertical	Pass
3**	3982.000	40.55	54.0	13.45	AV	0.00	200	Vertical	Pass
4	5244.200	96.12	--	--	Peak	157.00	200	Vertical	N/A
4**	5244.200	88.80	--	--	AV	157.00	200	Vertical	N/A
5	11937.812	52.46	74.0	21.54	Peak	74.00	100	Vertical	Pass
5**	11937.812	43.24	54.0	10.76	AV	74.00	100	Vertical	Pass
6	15524.362	55.19	74.0	18.81	Peak	83.00	300	Vertical	Pass
6**	15524.362	45.89	54.0	8.11	AV	83.00	300	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	1606.300	38.87	74.0	35.13	Peak	53.00	300	Horizontal	Pass
1**	1606.300	29.09	54.0	24.91	AV	53.00	300	Horizontal	Pass
2	4385.200	50.82	74.0	23.18	Peak	351.00	400	Horizontal	Pass
2**	4385.200	41.97	54.0	12.03	AV	351.00	400	Horizontal	Pass
3	5185.000	96.45	--	--	Peak	339.00	200	Horizontal	N/A
3**	5185.000	88.62	--	--	AV	339.00	200	Horizontal	N/A
4	7450.513	51.84	74.0	22.16	Peak	358.00	300	Horizontal	Pass
4**	7450.513	41.65	54.0	12.35	AV	358.00	300	Horizontal	Pass
5	11942.412	52.21	74.0	21.79	Peak	69.00	150	Horizontal	Pass
5**	11942.412	43.36	54.0	10.64	AV	69.00	150	Horizontal	Pass
6	15816.526	54.99	74.0	19.01	Peak	360.00	300	Horizontal	Pass
6**	15816.526	46.02	54.0	7.98	AV	360.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.300	44.19	74.0	29.81	Peak	189.00	150	Vertical	Pass
1**	1329.300	35.65	54.0	18.35	AV	189.00	150	Vertical	Pass
2	2662.600	53.30	68.2	14.90	Peak	246.00	150	Vertical	Pass
2**	2662.600	41.69	--	--	AV	246.00	150	Vertical	N/A
3	5185.600	100.18	--	--	Peak	333.00	100	Vertical	N/A
3**	5185.600	92.67	--	--	AV	333.00	100	Vertical	N/A
4	7445.913	50.86	74.0	23.14	Peak	57.00	100	Vertical	Pass
4**	7445.913	41.19	54.0	12.81	AV	57.00	100	Vertical	Pass
5	11210.438	52.34	74.0	21.66	Peak	39.00	100	Vertical	Pass
5**	11210.438	42.07	54.0	11.93	AV	39.00	100	Vertical	Pass
6	15817.575	55.20	74.0	18.80	Peak	360.00	100	Vertical	Pass
6**	15817.575	45.65	54.0	8.35	AV	360.00	100	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	1490.900	39.07	74.0	34.93	Peak	109.00	200	Horizontal	Pass
1**	1490.900	30.07	54.0	23.93	AV	109.00	200	Horizontal	Pass
2	4214.800	50.70	74.0	23.30	Peak	33.00	100	Horizontal	Pass
2**	4214.800	40.73	54.0	13.27	AV	33.00	100	Horizontal	Pass
3	5213.800	96.27	--	--	Peak	327.00	100	Horizontal	N/A
3**	5213.800	88.43	--	--	AV	327.00	100	Horizontal	N/A
4	7437.287	50.14	74.0	23.86	Peak	0.00	300	Horizontal	Pass
4**	7437.287	41.39	54.0	12.61	AV	0.00	300	Horizontal	Pass
5	12412.474	52.26	74.0	21.74	Peak	179.00	150	Horizontal	Pass
5**	12412.474	42.45	54.0	11.55	AV	179.00	150	Horizontal	Pass
6	15815.213	55.17	74.0	18.83	Peak	241.00	400	Horizontal	Pass
6**	15815.213	46.12	54.0	7.88	AV	241.00	400	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	1332.000	44.25	74.0	29.75	Peak	180.00	150	Vertical	Pass
1**	1332.000	31.95	54.0	22.05	AV	180.00	150	Vertical	Pass
2	2655.600	53.48	68.2	14.72	Peak	254.00	150	Vertical	Pass
2**	2655.600	41.47	--	--	AV	254.00	150	Vertical	N/A
3	5214.000	100.90	--	--	Peak	354.00	100	Vertical	N/A
3**	5214.000	94.17	--	--	AV	354.00	100	Vertical	N/A
4	7454.250	49.97	74.0	24.03	Peak	16.00	200	Vertical	Pass
4**	7454.250	42.65	54.0	11.35	AV	16.00	200	Vertical	Pass
5	10926.387	52.41	74.0	21.59	Peak	182.00	150	Vertical	Pass
5**	10926.387	42.60	54.0	11.40	AV	182.00	150	Vertical	Pass
6	15366.862	54.81	74.0	19.19	Peak	37.00	400	Vertical	Pass
6**	15366.862	44.80	54.0	9.20	AV	37.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1506.400	39.27	74.0	34.73	Peak	135.00	200	Horizontal	Pass
1**	1506.400	29.94	54.0	24.06	AV	135.00	200	Horizontal	Pass
2	4322.000	50.25	74.0	23.75	Peak	126.00	300	Horizontal	Pass
2**	4322.000	40.68	54.0	13.32	AV	126.00	300	Horizontal	Pass
3	5245.600	96.15	--	--	Peak	336.00	200	Horizontal	N/A
3**	5245.600	88.26	--	--	AV	336.00	200	Horizontal	N/A
4	7467.188	50.10	74.0	23.90	Peak	254.00	400	Horizontal	Pass
4**	7467.188	42.46	54.0	11.54	AV	254.00	400	Horizontal	Pass
5	11936.088	51.72	74.0	22.28	Peak	178.00	150	Horizontal	Pass
5**	11936.088	43.59	54.0	10.41	AV	178.00	150	Horizontal	Pass
6	15572.138	55.03	74.0	18.97	Peak	107.00	200	Horizontal	Pass
6**	15572.138	45.10	54.0	8.90	AV	107.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.200	43.80	74.0	30.20	Peak	165.00	150	Vertical	Pass
1**	1329.200	36.72	54.0	17.28	AV	165.00	150	Vertical	Pass
2	2655.100	53.10	68.2	15.10	Peak	247.00	150	Vertical	Pass
2**	2655.100	41.93	--	--	AV	247.00	150	Vertical	N/A
3	5244.000	99.27	--	--	Peak	349.00	100	Vertical	N/A
3**	5244.000	92.11	--	--	AV	349.00	100	Vertical	N/A
4	7366.275	50.26	74.0	23.74	Peak	360.00	300	Vertical	Pass
4**	7366.275	40.60	54.0	13.40	AV	360.00	300	Vertical	Pass
5	11340.100	52.42	74.0	21.58	Peak	17.00	200	Vertical	Pass
5**	11340.100	42.67	54.0	11.33	AV	17.00	200	Vertical	Pass
6	15735.412	55.01	74.0	18.99	Peak	360.00	200	Vertical	Pass
6**	15735.412	44.59	54.0	9.41	AV	360.00	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	1479.600	39.22	74.0	34.78	Peak	11.00	100	Horizontal	Pass
1**	1479.600	29.33	54.0	24.67	AV	11.00	100	Horizontal	Pass
2	4040.600	50.60	74.0	23.40	Peak	208.00	300	Horizontal	Pass
2**	4040.600	40.12	54.0	13.88	AV	208.00	300	Horizontal	Pass
3	5205.600	92.61	--	--	Peak	327.00	200	Horizontal	N/A
3**	5205.600	84.75	--	--	AV	327.00	200	Horizontal	N/A
4	7452.525	50.43	74.0	23.57	Peak	294.00	400	Horizontal	Pass
4**	7452.525	41.38	54.0	12.62	AV	294.00	400	Horizontal	Pass
5	11913.375	52.01	74.0	21.99	Peak	256.00	100	Horizontal	Pass
5**	11913.375	42.99	54.0	11.01	AV	256.00	100	Horizontal	Pass
6	16133.888	55.65	74.0	18.35	Peak	131.00	100	Horizontal	Pass
6**	16133.888	45.90	54.0	8.10	AV	131.00	100	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	1331.900	44.46	74.0	29.54	Peak	170.00	150	Vertical	Pass
1**	1331.900	31.08	54.0	22.92	AV	170.00	150	Vertical	Pass
2	3992.200	49.99	74.0	24.01	Peak	181.00	200	Vertical	Pass
2**	3992.200	40.83	54.0	13.17	AV	181.00	200	Vertical	Pass
3	5205.600	97.30	--	--	Peak	338.00	200	Vertical	N/A
3**	5205.600	89.02	--	--	AV	338.00	200	Vertical	N/A
4	7383.813	50.56	74.0	23.44	Peak	36.00	200	Vertical	Pass
4**	7383.813	41.70	54.0	12.30	AV	36.00	200	Vertical	Pass
5	12578.076	52.35	74.0	21.65	Peak	114.00	100	Vertical	Pass
5**	12578.076	42.57	54.0	11.43	AV	114.00	100	Vertical	Pass
6	16116.825	54.91	74.0	19.09	Peak	10.00	200	Vertical	Pass
6**	16116.825	45.58	54.0	8.42	AV	10.00	200	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	1460.900	39.13	74.0	34.87	Peak	24.00	200	Horizontal	Pass
1**	1460.900	30.12	54.0	23.88	AV	24.00	200	Horizontal	Pass
2	4007.200	50.26	74.0	23.74	Peak	257.00	400	Horizontal	Pass
2**	4007.200	41.05	54.0	12.95	AV	257.00	400	Horizontal	Pass
3	5245.200	92.90	--	--	Peak	328.00	100	Horizontal	N/A
3**	5245.200	84.20	--	--	AV	328.00	100	Horizontal	N/A
4	7357.362	50.11	74.0	23.89	Peak	360.00	300	Horizontal	Pass
4**	7357.362	40.94	54.0	13.06	AV	360.00	300	Horizontal	Pass
5	10919.200	52.05	74.0	21.95	Peak	223.00	100	Horizontal	Pass
5**	10919.200	42.68	54.0	11.32	AV	223.00	100	Horizontal	Pass
6	15528.300	55.09	74.0	18.91	Peak	197.00	200	Horizontal	Pass
6**	15528.300	45.92	54.0	8.08	AV	197.00	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	1330.800	45.56	74.0	28.44	Peak	177.00	150	Vertical	Pass
1**	1330.800	37.42	54.0	16.58	AV	177.00	150	Vertical	Pass
2	2667.200	52.77	68.2	15.43	Peak	242.00	150	Vertical	Pass
2**	2667.200	38.97	--	--	AV	242.00	150	Vertical	N/A
3	5215.400	97.08	--	--	Peak	338.00	200	Vertical	N/A
3**	5215.400	88.86	--	--	AV	338.00	200	Vertical	N/A
4	7437.862	50.34	74.0	23.66	Peak	206.00	200	Vertical	Pass
4**	7437.862	42.11	54.0	11.89	AV	206.00	200	Vertical	Pass
5	11913.088	51.79	74.0	22.21	Peak	0.00	150	Vertical	Pass
5**	11913.088	42.83	54.0	11.17	AV	0.00	150	Vertical	Pass
6	15654.825	55.93	74.0	18.07	Peak	32.00	100	Vertical	Pass
6**	15654.825	45.16	54.0	8.84	AV	32.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1489.900	39.14	74.0	34.86	Peak	143.00	100	Horizontal	Pass
1**	1489.900	29.67	54.0	24.33	AV	143.00	100	Horizontal	Pass
2	2661.200	47.60	68.2	20.60	Peak	0.00	150	Horizontal	Pass
2**	2661.200	35.96	--	--	AV	0.00	150	Horizontal	N/A
3	5201.000	90.30	--	--	Peak	329.00	200	Horizontal	N/A
3**	5201.000	83.63	--	--	AV	329.00	200	Horizontal	N/A
4	7360.237	51.16	74.0	22.84	Peak	118.00	400	Horizontal	Pass
4**	7360.237	40.77	54.0	13.23	AV	118.00	400	Horizontal	Pass
5	12488.662	51.93	74.0	22.07	Peak	347.00	100	Horizontal	Pass
5**	12488.662	42.24	54.0	11.76	AV	347.00	100	Horizontal	Pass
6	15820.200	55.86	74.0	18.14	Peak	360.00	200	Horizontal	Pass
6**	15820.200	45.88	54.0	8.12	AV	360.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.700	44.10	74.0	29.90	Peak	171.00	150	Vertical	Pass
1**	1329.700	31.25	54.0	22.75	AV	171.00	150	Vertical	Pass
2	2666.300	54.24	68.2	13.96	Peak	98.00	150	Vertical	Pass
2**	2666.300	44.11	--	--	AV	98.00	150	Vertical	N/A
3	5217.800	93.87	--	--	Peak	351.00	150	Vertical	N/A
3**	5217.800	86.44	--	--	AV	351.00	150	Vertical	N/A
4	7502.263	51.00	74.0	23.00	Peak	15.00	100	Vertical	Pass
4**	7502.263	41.69	54.0	12.31	AV	15.00	100	Vertical	Pass
5	11904.463	52.32	74.0	21.68	Peak	156.00	100	Vertical	Pass
5**	11904.463	42.89	54.0	11.11	AV	156.00	100	Vertical	Pass
6	15704.963	55.56	74.0	18.44	Peak	282.00	300	Vertical	Pass
6**	15704.963	44.56	54.0	9.44	AV	282.00	300	Vertical	Pass

11a, U-NII-2A, 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	1586.500	39.66	74.0	34.34	Peak	0.00	400	Horizontal	Pass
1**	1586.500	30.00	54.0	24.00	AV	0.00	400	Horizontal	Pass
2	2664.500	47.84	68.2	20.36	Peak	0.00	150	Horizontal	Pass
2**	2664.500	36.63	--	--	AV	0.00	150	Horizontal	N/A
3	5264.600	95.91	--	--	Peak	329.00	200	Horizontal	N/A
3**	5264.600	87.49	--	--	AV	329.00	200	Horizontal	N/A
4	7456.550	50.27	74.0	23.73	Peak	34.00	200	Horizontal	Pass
4**	7456.550	40.96	54.0	13.04	AV	34.00	200	Horizontal	Pass
5	11919.412	52.08	74.0	21.92	Peak	156.00	150	Horizontal	Pass
5**	11919.412	42.92	54.0	11.08	AV	156.00	150	Horizontal	Pass
6	15972.712	55.10	74.0	18.90	Peak	261.00	100	Horizontal	Pass
6**	15972.712	45.16	54.0	8.84	AV	261.00	100	Horizontal	Pass

11a, U-NII-2A, 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	1328.400	44.17	74.0	29.83	Peak	178.00	150	Vertical	Pass
1**	1328.400	32.18	54.0	21.82	AV	178.00	150	Vertical	Pass
2	1993.200	44.53	68.2	23.67	Peak	97.00	150	Vertical	Pass
2**	1993.200	35.77	--	--	AV	97.00	150	Vertical	N/A
3	2666.500	53.40	68.2	14.80	Peak	104.00	150	Vertical	Pass
3**	2666.500	43.41	--	--	AV	104.00	150	Vertical	N/A
4	5265.400	100.75	--	--	Peak	342.00	100	Vertical	N/A
4**	5265.400	92.54	--	--	AV	342.00	100	Vertical	N/A
5	11323.713	52.00	74.0	22.00	Peak	86.00	150	Vertical	Pass
5**	11323.713	42.19	54.0	11.81	AV	86.00	150	Vertical	Pass
6	16103.700	55.66	74.0	18.34	Peak	241.00	400	Vertical	Pass
6**	16103.700	45.59	54.0	8.41	AV	241.00	400	Vertical	Pass

11a, U-NII-2A, 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	1995.100	44.16	68.2	24.04	Peak	159.00	150	Horizontal	Pass
1**	1995.100	31.41	--	--	AV	159.00	150	Horizontal	N/A
2	2660.400	47.07	68.2	21.13	Peak	360.00	150	Horizontal	Pass
2**	2660.400	37.20	--	--	AV	360.00	150	Horizontal	N/A
3	5307.400	96.69	--	--	Peak	330.00	100	Horizontal	N/A
3**	5307.400	89.77	--	--	AV	330.00	100	Horizontal	N/A
4	7493.063	50.18	74.0	23.82	Peak	166.00	400	Horizontal	Pass
4**	7493.063	41.59	54.0	12.41	AV	166.00	400	Horizontal	Pass
5	11350.162	51.86	74.0	22.14	Peak	166.00	150	Horizontal	Pass
5**	11350.162	41.64	54.0	12.36	AV	166.00	150	Horizontal	Pass
6	16097.662	54.91	74.0	19.09	Peak	87.00	200	Horizontal	Pass
6**	16097.662	45.57	54.0	8.43	AV	87.00	200	Horizontal	Pass

11a, U-NII-2A, 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	1329.100	42.77	74.0	31.23	Peak	119.00	150	Vertical	Pass
1**	1329.100	31.24	54.0	22.76	AV	119.00	150	Vertical	Pass
2	2655.900	53.15	68.2	15.05	Peak	249.00	150	Vertical	Pass
2**	2655.900	40.87	--	--	AV	249.00	150	Vertical	N/A
3	5307.200	100.68	--	--	Peak	141.00	150	Vertical	N/A
3**	5307.200	93.97	--	--	AV	141.00	150	Vertical	N/A
4	7493.350	50.66	74.0	23.34	Peak	110.00	100	Vertical	Pass
4**	7493.350	40.86	54.0	13.14	AV	110.00	100	Vertical	Pass
5	11918.838	52.35	74.0	21.65	Peak	37.00	200	Vertical	Pass
5**	11918.838	42.59	54.0	11.41	AV	37.00	200	Vertical	Pass
6	15833.062	55.23	74.0	18.77	Peak	75.00	400	Vertical	Pass
6**	15833.062	45.53	54.0	8.47	AV	75.00	400	Vertical	Pass

11a, U-NII-2A, 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	1049.000	41.20	74.0	32.80	Peak	140.00	150	Horizontal	Pass
1**	1049.000	32.36	54.0	21.64	AV	140.00	150	Horizontal	Pass
2	2659.900	47.92	68.2	20.28	Peak	360.00	150	Horizontal	Pass
2**	2659.900	36.75	--	--	AV	360.00	150	Horizontal	N/A
3	5326.400	96.17	--	--	Peak	328.00	100	Horizontal	N/A
3**	5326.400	89.34	--	--	AV	328.00	100	Horizontal	N/A
4	7461.725	50.21	74.0	23.79	Peak	186.00	400	Horizontal	Pass
4**	7461.725	40.70	54.0	13.30	AV	186.00	400	Horizontal	Pass
5	12240.263	52.07	74.0	21.93	Peak	288.00	100	Horizontal	Pass
5**	12240.263	41.51	54.0	12.49	AV	288.00	100	Horizontal	Pass
6	15518.325	55.53	74.0	18.47	Peak	344.00	400	Horizontal	Pass
6**	15518.325	46.19	54.0	7.81	AV	344.00	400	Horizontal	Pass

11a, U-NII-2A, 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	1328.100	44.81	74.0	29.19	Peak	174.00	150	Vertical	Pass
1**	1328.100	36.91	54.0	17.09	AV	174.00	150	Vertical	Pass
2	2659.700	54.38	68.2	13.82	Peak	244.00	150	Vertical	Pass
2**	2659.700	42.66	--	--	AV	244.00	150	Vertical	N/A
3	5325.800	101.65	--	--	Peak	137.00	100	Vertical	N/A
3**	5325.800	94.51	--	--	AV	137.00	100	Vertical	N/A
4	7452.812	50.76	74.0	23.24	Peak	319.00	400	Vertical	Pass
4**	7452.812	41.20	54.0	12.80	AV	319.00	400	Vertical	Pass
5	11212.162	52.17	74.0	21.83	Peak	151.00	200	Vertical	Pass
5**	11212.162	43.30	54.0	10.70	AV	151.00	200	Vertical	Pass
6	16188.750	55.24	74.0	18.76	Peak	234.00	100	Vertical	Pass
6**	16188.750	45.49	54.0	8.51	AV	234.00	100	Vertical	Pass

11n20, U-NII-2A, 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	1615.100	39.11	74.0	34.89	Peak	223.00	200	Horizontal	Pass
1**	1615.100	29.41	54.0	24.59	AV	223.00	200	Horizontal	Pass
2	4386.400	50.84	74.0	23.16	Peak	232.00	300	Horizontal	Pass
2**	4386.400	42.16	54.0	11.84	AV	232.00	300	Horizontal	Pass
3	5266.000	96.65	--	--	Peak	327.00	150	Horizontal	N/A
3**	5266.000	89.20	--	--	AV	327.00	150	Horizontal	N/A
4	7463.737	50.32	74.0	23.68	Peak	283.00	200	Horizontal	Pass
4**	7463.737	40.57	54.0	13.43	AV	283.00	200	Horizontal	Pass
5	10927.250	52.06	74.0	21.94	Peak	208.00	150	Horizontal	Pass
5**	10927.250	43.35	54.0	10.65	AV	208.00	150	Horizontal	Pass
6	16091.625	55.22	74.0	18.78	Peak	360.00	200	Horizontal	Pass
6**	16091.625	45.75	54.0	8.25	AV	360.00	200	Horizontal	Pass

11n20, U-NII-2A, 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	1331.200	43.38	74.0	30.62	Peak	171.00	150	Vertical	Pass
1**	1331.200	34.40	54.0	19.60	AV	171.00	150	Vertical	Pass
2	2657.000	53.18	68.2	15.02	Peak	109.00	150	Vertical	Pass
2**	2657.000	42.76	--	--	AV	109.00	150	Vertical	N/A
3	5265.200	100.71	--	--	Peak	344.00	100	Vertical	N/A
3**	5265.200	93.18	--	--	AV	344.00	100	Vertical	N/A
4	7339.250	50.72	74.0	23.28	Peak	109.00	400	Vertical	Pass
4**	7339.250	41.25	54.0	12.75	AV	109.00	400	Vertical	Pass
5	11938.675	53.24	74.0	20.76	Peak	0.00	150	Vertical	Pass
5**	11938.675	43.29	54.0	10.71	AV	0.00	150	Vertical	Pass
6	15978.488	55.47	74.0	18.53	Peak	28.00	300	Vertical	Pass
6**	15978.488	44.88	54.0	9.12	AV	28.00	300	Vertical	Pass

11n20, U-NII-2A, 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	1329.100	40.22	74.0	33.78	Peak	180.00	150	Horizontal	Pass
1**	1329.100	30.22	54.0	23.78	AV	180.00	150	Horizontal	Pass
2	4133.400	50.65	74.0	23.35	Peak	100.00	100	Horizontal	Pass
2**	4133.400	41.15	54.0	12.85	AV	100.00	100	Horizontal	Pass
3	5303.600	99.33	--	--	Peak	345.00	150	Horizontal	N/A
3**	5303.600	91.54	--	--	AV	345.00	150	Horizontal	N/A
4	7453.388	50.69	74.0	23.31	Peak	246.00	100	Horizontal	Pass
4**	7453.388	42.03	54.0	11.97	AV	246.00	100	Horizontal	Pass
5	11771.350	51.79	74.0	22.21	Peak	79.00	200	Horizontal	Pass
5**	11771.350	42.75	54.0	11.25	AV	79.00	200	Horizontal	Pass
6	15884.775	54.91	74.0	19.09	Peak	286.00	100	Horizontal	Pass
6**	15884.775	45.41	54.0	8.59	AV	286.00	100	Horizontal	Pass

11n20, U-NII-2A, 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	1166.200	49.22	74.0	24.78	Peak	61.00	150	Vertical	Pass
1**	1166.200	30.12	54.0	23.88	AV	61.00	150	Vertical	Pass
2	1328.500	45.73	74.0	28.27	Peak	27.00	150	Vertical	Pass
2**	1328.500	41.77	54.0	12.23	AV	27.00	150	Vertical	Pass
3	4205.400	50.16	74.0	23.84	Peak	12.00	300	Vertical	Pass
3**	4205.400	40.34	54.0	13.66	AV	12.00	300	Vertical	Pass
4	5307.000	102.92	--	--	Peak	148.00	100	Vertical	N/A
4**	5307.000	96.06	--	--	AV	148.00	100	Vertical	N/A
5	10920.637	52.21	74.0	21.79	Peak	0.00	100	Vertical	Pass
5**	10920.637	43.64	54.0	10.36	AV	0.00	100	Vertical	Pass
6	16085.063	54.54	74.0	19.46	Peak	153.00	200	Vertical	Pass
6**	16085.063	45.73	54.0	8.27	AV	153.00	200	Vertical	Pass

11n20, U-NII-2A, 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	1329.300	40.41	74.0	33.59	Peak	134.00	150	Horizontal	Pass
1**	1329.300	30.17	54.0	23.83	AV	134.00	150	Horizontal	Pass
2	2660.200	47.81	68.2	20.39	Peak	143.00	150	Horizontal	Pass
2**	2660.200	34.03	--	--	AV	143.00	150	Horizontal	N/A
3	5314.000	98.64	--	--	Peak	350.00	100	Horizontal	N/A
3**	5314.000	91.03	--	--	AV	350.00	100	Horizontal	N/A
4	7445.913	51.28	74.0	22.72	Peak	165.00	400	Horizontal	Pass
4**	7445.913	41.93	54.0	12.07	AV	165.00	400	Horizontal	Pass
5	12365.612	52.48	74.0	21.52	Peak	0.00	200	Horizontal	Pass
5**	12365.612	42.21	54.0	11.79	AV	0.00	200	Horizontal	Pass
6	15827.550	55.22	74.0	18.78	Peak	101.00	200	Horizontal	Pass
6**	15827.550	46.08	54.0	7.92	AV	101.00	200	Horizontal	Pass

11n20, U-NII-2A, 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	1162.300	46.77	74.0	27.23	Peak	51.00	150	Vertical	Pass
1**	1162.300	33.13	54.0	20.87	AV	51.00	150	Vertical	Pass
2	1329.100	45.75	74.0	28.25	Peak	36.00	150	Vertical	Pass
2**	1329.100	34.56	54.0	19.44	AV	36.00	150	Vertical	Pass
3	1500.100	43.09	74.0	30.91	Peak	251.00	150	Vertical	Pass
3**	1500.100	29.63	54.0	24.37	AV	251.00	150	Vertical	Pass
4	5326.200	102.48	--	--	Peak	177.00	100	Vertical	N/A
4**	5326.200	95.22	--	--	AV	177.00	100	Vertical	N/A
5	12327.663	51.98	74.0	22.02	Peak	130.00	150	Vertical	Pass
5**	12327.663	42.79	54.0	11.21	AV	130.00	150	Vertical	Pass
6	15829.650	54.65	74.0	19.35	Peak	73.00	300	Vertical	Pass
6**	15829.650	46.03	54.0	7.97	AV	73.00	300	Vertical	Pass

11n40, U-NII-2A, 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	1327.800	41.91	74.0	32.09	Peak	136.00	150	Horizontal	Pass
1**	1327.800	31.30	54.0	22.70	AV	136.00	150	Horizontal	Pass
2	4377.200	50.68	74.0	23.32	Peak	1.00	200	Horizontal	Pass
2**	4377.200	41.47	54.0	12.53	AV	1.00	200	Horizontal	Pass
3	5283.000	94.44	--	--	Peak	349.00	200	Horizontal	N/A
3**	5283.000	86.59	--	--	AV	349.00	200	Horizontal	N/A
4	7453.388	50.76	74.0	23.24	Peak	176.00	400	Horizontal	Pass
4**	7453.388	42.44	54.0	11.56	AV	176.00	400	Horizontal	Pass
5	11328.026	52.39	74.0	21.61	Peak	176.00	100	Horizontal	Pass
5**	11328.026	42.59	54.0	11.41	AV	176.00	100	Horizontal	Pass
6	16193.475	54.79	74.0	19.21	Peak	20.00	400	Horizontal	Pass
6**	16193.475	45.85	54.0	8.15	AV	20.00	400	Horizontal	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.400	47.04	74.0	26.96	Peak	28.00	150	Vertical	Pass
1**	1164.400	37.15	54.0	16.85	AV	28.00	150	Vertical	Pass
2	1328.500	45.53	74.0	28.47	Peak	264.00	150	Vertical	Pass
2**	1328.500	38.73	54.0	15.27	AV	264.00	150	Vertical	Pass
3	5283.000	98.73	--	--	Peak	157.00	200	Vertical	N/A
3**	5283.000	90.98	--	--	AV	157.00	200	Vertical	N/A
4	7502.550	50.10	74.0	23.90	Peak	14.00	400	Vertical	Pass
4**	7502.550	40.88	54.0	13.12	AV	14.00	400	Vertical	Pass
5	11771.638	52.67	74.0	21.33	Peak	69.00	100	Vertical	Pass
5**	11771.638	42.63	54.0	11.37	AV	69.00	100	Vertical	Pass
6	16088.475	54.86	74.0	19.14	Peak	359.00	200	Vertical	Pass
6**	16088.475	45.47	54.0	8.53	AV	359.00	200	Vertical	Pass

11n40, U-NII-2A, 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	1331.900	40.59	74.0	33.41	Peak	186.00	150	Horizontal	Pass
1**	1331.900	34.50	54.0	19.50	AV	186.00	150	Horizontal	Pass
2	4385.600	51.03	74.0	22.97	Peak	347.00	400	Horizontal	Pass
2**	4385.600	41.45	54.0	12.55	AV	347.00	400	Horizontal	Pass
3	5325.000	95.45	--	--	Peak	347.00	100	Horizontal	N/A
3**	5325.000	88.05	--	--	AV	347.00	100	Horizontal	N/A
4	7501.975	50.22	74.0	23.78	Peak	307.00	200	Horizontal	Pass
4**	7501.975	41.52	54.0	12.48	AV	307.00	200	Horizontal	Pass
5	10921.213	52.06	74.0	21.94	Peak	99.00	150	Horizontal	Pass
5**	10921.213	43.44	54.0	10.56	AV	99.00	150	Horizontal	Pass
6	15813.112	54.72	74.0	19.28	Peak	252.00	100	Horizontal	Pass
6**	15813.112	46.04	54.0	7.96	AV	252.00	100	Horizontal	Pass

11n40, U-NII-2A, 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	1162.500	47.58	74.0	26.42	Peak	75.00	150	Vertical	Pass
1**	1162.500	38.03	54.0	15.97	AV	75.00	150	Vertical	Pass
2	1332.000	44.98	74.0	29.02	Peak	32.00	150	Vertical	Pass
2**	1332.000	39.09	54.0	14.91	AV	32.00	150	Vertical	Pass
3	1497.000	40.85	74.0	33.15	Peak	257.00	150	Vertical	Pass
3**	1497.000	29.46	54.0	24.54	AV	257.00	150	Vertical	Pass
4	5307.800	99.24	--	--	Peak	156.00	100	Vertical	N/A
4**	5307.800	90.90	--	--	AV	156.00	100	Vertical	N/A
5	10924.088	52.41	74.0	21.59	Peak	104.00	100	Vertical	Pass
5**	10924.088	43.25	54.0	10.75	AV	104.00	100	Vertical	Pass
6	15819.150	54.92	74.0	19.08	Peak	123.00	400	Vertical	Pass
6**	15819.150	45.79	54.0	8.21	AV	123.00	400	Vertical	Pass

11ac20, U-NII-2A, 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	1329.900	42.04	74.0	31.96	Peak	140.00	150	Horizontal	Pass
1**	1329.900	30.03	54.0	23.97	AV	140.00	150	Horizontal	Pass
2	1999.100	44.00	68.2	24.20	Peak	175.00	150	Horizontal	Pass
2**	1999.100	31.73	--	--	AV	175.00	150	Horizontal	N/A
3	5264.400	97.71	--	--	Peak	350.00	150	Horizontal	N/A
3**	5264.400	90.26	--	--	AV	350.00	150	Horizontal	N/A
4	7448.787	50.73	74.0	23.27	Peak	71.00	100	Horizontal	Pass
4**	7448.787	42.16	54.0	11.84	AV	71.00	100	Horizontal	Pass
5	11934.650	52.30	74.0	21.70	Peak	360.00	100	Horizontal	Pass
5**	11934.650	43.32	54.0	10.68	AV	360.00	100	Horizontal	Pass
6	16098.975	54.78	74.0	19.22	Peak	228.00	300	Horizontal	Pass
6**	16098.975	46.82	54.0	7.18	AV	228.00	300	Horizontal	Pass

11ac20, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.000	48.80	74.0	25.20	Peak	100.00	150	Vertical	Pass
1**	1162.000	31.35	54.0	22.65	AV	100.00	150	Vertical	Pass
2	1332.000	45.16	74.0	28.84	Peak	31.00	150	Vertical	Pass
2**	1332.000	29.51	54.0	24.49	AV	31.00	150	Vertical	Pass
3	2666.400	47.92	68.2	20.28	Peak	53.00	150	Vertical	Pass
3**	2666.400	38.80	--	--	AV	53.00	150	Vertical	N/A
4	5265.800	102.10	--	--	Peak	156.00	200	Vertical	N/A
4**	5265.800	94.99	--	--	AV	156.00	200	Vertical	N/A
5	12572.037	51.98	74.0	22.02	Peak	65.00	100	Vertical	Pass
5**	12572.037	43.50	54.0	10.50	AV	65.00	100	Vertical	Pass
6	15514.912	54.95	74.0	19.05	Peak	234.00	200	Vertical	Pass
6**	15514.912	45.84	54.0	8.16	AV	234.00	200	Vertical	Pass

11ac20, U-NII-2A, 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	1020.000	39.22	74.0	34.78	Peak	123.00	150	Horizontal	Pass
1**	1020.000	29.82	54.0	24.18	AV	123.00	150	Horizontal	Pass
2	1328.000	39.73	74.0	34.27	Peak	264.00	150	Horizontal	Pass
2**	1328.000	29.65	54.0	24.35	AV	264.00	150	Horizontal	Pass
3	4297.600	50.79	74.0	23.21	Peak	160.00	400	Horizontal	Pass
3**	4297.600	40.46	54.0	13.54	AV	160.00	400	Horizontal	Pass
4	5305.200	99.42	--	--	Peak	351.00	200	Horizontal	N/A
4**	5305.200	91.03	--	--	AV	351.00	200	Horizontal	N/A
5	7503.125	50.93	74.0	23.07	Peak	210.00	200	Horizontal	Pass
5**	7503.125	41.53	54.0	12.47	AV	210.00	200	Horizontal	Pass
6	15825.188	55.36	74.0	18.64	Peak	216.00	400	Horizontal	Pass
6**	15825.188	45.74	54.0	8.26	AV	216.00	400	Horizontal	Pass

11ac20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.500	45.90	74.0	28.10	Peak	28.00	150	Vertical	Pass
1**	1164.500	32.97	54.0	21.03	AV	28.00	150	Vertical	Pass
2	1329.900	44.19	74.0	29.81	Peak	130.00	150	Vertical	Pass
2**	1329.900	32.08	54.0	21.92	AV	130.00	150	Vertical	Pass
3	2657.900	46.73	68.2	21.47	Peak	55.00	150	Vertical	Pass
3**	2657.900	33.86	--	--	AV	55.00	150	Vertical	N/A
4	4381.000	50.31	74.0	23.69	Peak	212.00	200	Vertical	Pass
4**	4381.000	40.95	54.0	13.05	AV	212.00	200	Vertical	Pass
5	5293.600	102.90	--	--	Peak	151.00	200	Vertical	N/A
5**	5293.600	96.68	--	--	AV	151.00	200	Vertical	N/A
6	15518.063	54.62	74.0	19.38	Peak	147.00	100	Vertical	Pass
6**	15518.063	45.43	54.0	8.57	AV	147.00	100	Vertical	Pass

11ac20, U-NII-2A, 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	1331.000	41.03	74.0	32.97	Peak	127.00	150	Horizontal	Pass
1**	1331.000	32.55	54.0	21.45	AV	127.00	150	Horizontal	Pass
2	4189.000	50.62	74.0	23.38	Peak	35.00	200	Horizontal	Pass
2**	4189.000	40.56	54.0	13.44	AV	35.00	200	Horizontal	Pass
3	5326.600	98.68	--	--	Peak	346.00	100	Horizontal	N/A
3**	5326.600	91.91	--	--	AV	346.00	100	Horizontal	N/A
4	7549.125	50.29	74.0	23.71	Peak	252.00	200	Horizontal	Pass
4**	7549.125	40.87	54.0	13.13	AV	252.00	200	Horizontal	Pass
5	10914.312	52.34	74.0	21.66	Peak	135.00	200	Horizontal	Pass
5**	10914.312	42.50	54.0	11.50	AV	135.00	200	Horizontal	Pass
6	15857.475	55.53	74.0	18.47	Peak	79.00	100	Horizontal	Pass
6**	15857.475	45.27	54.0	8.73	AV	79.00	100	Horizontal	Pass

11ac20, U-NII-2A, 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	1165.700	46.96	74.0	27.04	Peak	87.00	150	Vertical	Pass
1**	1165.700	33.85	54.0	20.15	AV	87.00	150	Vertical	Pass
2	1328.100	44.98	74.0	29.02	Peak	40.00	150	Vertical	Pass
2**	1328.100	36.94	54.0	17.06	AV	40.00	150	Vertical	Pass
3	1499.200	42.28	74.0	31.72	Peak	257.00	150	Vertical	Pass
3**	1499.200	33.26	54.0	20.74	AV	257.00	150	Vertical	Pass
4	5325.600	102.55	--	--	Peak	179.00	200	Vertical	N/A
4**	5325.600	95.63	--	--	AV	179.00	200	Vertical	N/A
5	12484.638	52.12	74.0	21.88	Peak	88.00	200	Vertical	Pass
5**	12484.638	42.43	54.0	11.57	AV	88.00	200	Vertical	Pass
6	15525.412	55.04	74.0	18.96	Peak	360.00	200	Vertical	Pass
6**	15525.412	45.35	54.0	8.65	AV	360.00	200	Vertical	Pass

11ac40, U-NII-2A, 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	1459.600	39.32	74.0	34.68	Peak	310.00	200	Horizontal	Pass
1**	1459.600	29.10	54.0	24.90	AV	310.00	200	Horizontal	Pass
2	4378.800	50.70	74.0	23.30	Peak	55.00	300	Horizontal	Pass
2**	4378.800	41.84	54.0	12.16	AV	55.00	300	Horizontal	Pass
3	5274.400	94.27	--	--	Peak	344.00	150	Horizontal	N/A
3**	5274.400	86.54	--	--	AV	344.00	150	Horizontal	N/A
4	7392.150	50.71	74.0	23.29	Peak	50.00	100	Horizontal	Pass
4**	7392.150	40.98	54.0	13.02	AV	50.00	100	Horizontal	Pass
5	11928.612	51.94	74.0	22.06	Peak	0.00	100	Horizontal	Pass
5**	11928.612	42.24	54.0	11.76	AV	0.00	100	Horizontal	Pass
6	16090.313	54.87	74.0	19.13	Peak	17.00	300	Horizontal	Pass
6**	16090.313	45.48	54.0	8.52	AV	17.00	300	Horizontal	Pass

11ac40, U-NII-2A, 1 GHz to 18 GHz, Low Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.500	47.37	74.0	26.63	Peak	70.00	150	Vertical	Pass
1**	1162.500	37.77	54.0	16.23	AV	70.00	150	Vertical	Pass
2	1327.100	44.36	74.0	29.64	Peak	57.00	150	Vertical	Pass
2**	1327.100	34.59	54.0	19.41	AV	57.00	150	Vertical	Pass
3	1493.400	39.48	74.0	34.52	Peak	251.00	150	Vertical	Pass
3**	1493.400	29.77	54.0	24.23	AV	251.00	150	Vertical	Pass
4	4380.800	50.73	74.0	23.27	Peak	237.00	300	Vertical	Pass
4**	4380.800	41.19	54.0	12.81	AV	237.00	300	Vertical	Pass
5	5283.000	98.86	--	--	Peak	153.00	100	Vertical	N/A
5**	5283.000	90.75	--	--	AV	153.00	100	Vertical	N/A
6	15825.188	55.58	74.0	18.42	Peak	40.00	200	Vertical	Pass
6**	15825.188	46.32	54.0	7.68	AV	40.00	200	Vertical	Pass

11ac40, U-NII-2A, 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	1332.800	41.48	74.0	32.52	Peak	184.00	150	Horizontal	Pass
1**	1332.800	29.66	54.0	24.34	AV	184.00	150	Horizontal	Pass
2	4388.600	50.56	74.0	23.44	Peak	46.00	100	Horizontal	Pass
2**	4388.600	41.47	54.0	12.53	AV	46.00	100	Horizontal	Pass
3	5324.000	96.05	--	--	Peak	350.00	150	Horizontal	N/A
3**	5324.000	89.24	--	--	AV	350.00	150	Horizontal	N/A
4	7454.250	50.50	74.0	23.50	Peak	253.00	100	Horizontal	Pass
4**	7454.250	41.32	54.0	12.68	AV	253.00	100	Horizontal	Pass
5	12267.862	52.04	74.0	21.96	Peak	73.00	150	Horizontal	Pass
5**	12267.862	41.98	54.0	12.02	AV	73.00	150	Horizontal	Pass
6	15867.187	55.20	74.0	18.80	Peak	39.00	100	Horizontal	Pass
6**	15867.187	44.63	54.0	9.37	AV	39.00	100	Horizontal	Pass

11ac40, U-NII-2A, 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	1165.700	47.32	74.0	26.68	Peak	92.00	150	Vertical	Pass
1**	1165.700	31.85	54.0	22.15	AV	92.00	150	Vertical	Pass
2	1332.400	44.21	74.0	29.79	Peak	92.00	150	Vertical	Pass
2**	1332.400	35.32	54.0	18.68	AV	92.00	150	Vertical	Pass
3	1496.500	41.59	74.0	32.41	Peak	248.00	150	Vertical	Pass
3**	1496.500	30.17	54.0	23.83	AV	248.00	150	Vertical	Pass
4	5324.200	99.80	--	--	Peak	143.00	200	Vertical	N/A
4**	5324.200	91.93	--	--	AV	143.00	200	Vertical	N/A
5	12609.700	52.40	74.0	21.60	Peak	266.00	200	Vertical	Pass
5**	12609.700	43.16	54.0	10.84	AV	266.00	200	Vertical	Pass
6	15818.100	55.21	74.0	18.79	Peak	230.00	100	Vertical	Pass
6**	15818.100	47.16	54.0	6.84	AV	230.00	100	Vertical	Pass

11ac80, U-NII-2A, 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	1329.100	43.05	74.0	30.95	Peak	149.00	150	Horizontal	Pass
1**	1329.100	32.25	54.0	21.75	AV	149.00	150	Horizontal	Pass
2	4185.800	50.49	74.0	23.51	Peak	10.00	300	Horizontal	Pass
2**	4185.800	40.48	54.0	13.52	AV	10.00	300	Horizontal	Pass
3	5315.800	92.81	--	--	Peak	343.00	100	Horizontal	N/A
3**	5315.800	85.23	--	--	AV	343.00	100	Horizontal	N/A
4	7433.838	50.70	74.0	23.30	Peak	127.00	100	Horizontal	Pass
4**	7433.838	41.37	54.0	12.63	AV	127.00	100	Horizontal	Pass
5	11926.600	52.07	74.0	21.93	Peak	0.00	100	Horizontal	Pass
5**	11926.600	42.29	54.0	11.71	AV	0.00	100	Horizontal	Pass
6	16101.338	55.01	74.0	18.99	Peak	360.00	400	Horizontal	Pass
6**	16101.338	45.43	54.0	8.57	AV	360.00	400	Horizontal	Pass

11ac80, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.700	47.89	74.0	26.11	Peak	47.00	150	Vertical	Pass
1**	1164.700	34.37	54.0	19.63	AV	47.00	150	Vertical	Pass
2	1329.200	45.53	74.0	28.47	Peak	33.00	150	Vertical	Pass
2**	1329.200	35.47	54.0	18.53	AV	33.00	150	Vertical	Pass
3	1990.900	44.84	68.2	23.36	Peak	266.00	150	Vertical	Pass
3**	1990.900	31.75	--	--	AV	266.00	150	Vertical	N/A
4	5307.200	96.96	--	--	Peak	152.00	200	Vertical	N/A
4**	5307.200	90.22	--	--	AV	152.00	200	Vertical	N/A
5	11213.887	52.26	74.0	21.74	Peak	103.00	100	Vertical	Pass
5**	11213.887	42.62	54.0	11.38	AV	103.00	100	Vertical	Pass
6	15815.737	55.24	74.0	18.76	Peak	209.00	400	Vertical	Pass
6**	15815.737	46.95	54.0	7.05	AV	209.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1009.300	41.22	74.0	32.78	Peak	131.00	150	Horizontal	Pass
1**	1009.300	29.52	54.0	24.48	AV	131.00	150	Horizontal	Pass
2	4378.600	50.15	74.0	23.85	Peak	194.00	400	Horizontal	Pass
2**	4378.600	41.28	54.0	12.72	AV	194.00	400	Horizontal	Pass
3	5750.600	97.60	--	--	Peak	341.00	100	Horizontal	N/A
3**	5750.600	89.55	--	--	AV	341.00	100	Horizontal	N/A
4	7446.200	49.93	74.0	24.07	Peak	326.00	300	Horizontal	Pass
4**	7446.200	41.74	54.0	12.26	AV	326.00	300	Horizontal	Pass
5	10919.775	52.53	74.0	21.47	Peak	0.00	200	Horizontal	Pass
5**	10919.775	43.25	54.0	10.75	AV	0.00	200	Horizontal	Pass
6	15688.424	55.29	74.0	18.71	Peak	295.00	200	Horizontal	Pass
6**	15688.424	45.14	54.0	8.86	AV	295.00	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	1163.200	48.00	74.0	26.00	Peak	35.00	150	Vertical	Pass
1**	1163.200	38.48	54.0	15.52	AV	35.00	150	Vertical	Pass
2	1330.500	43.95	74.0	30.05	Peak	28.00	150	Vertical	Pass
2**	1330.500	31.53	54.0	22.47	AV	28.00	150	Vertical	Pass
3	1499.300	40.77	74.0	33.23	Peak	257.00	300	Vertical	Pass
3**	1499.300	30.67	54.0	23.33	AV	257.00	300	Vertical	Pass
4	5751.800	104.94	--	--	Peak	178.00	150	Vertical	N/A
4**	5751.800	98.07	--	--	AV	178.00	150	Vertical	N/A
5	7451.375	51.26	74.0	22.74	Peak	95.00	400	Vertical	Pass
5**	7451.375	41.75	54.0	12.25	AV	95.00	400	Vertical	Pass
6	16095.037	55.06	74.0	18.94	Peak	177.00	400	Vertical	Pass
6**	16095.037	46.47	54.0	7.53	AV	177.00	400	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	1333.100	42.77	74.0	31.23	Peak	179.00	150	Horizontal	Pass
1**	1333.100	28.95	54.0	25.05	AV	179.00	150	Horizontal	Pass
2	3989.400	50.44	74.0	23.56	Peak	193.00	400	Horizontal	Pass
2**	3989.400	40.38	54.0	13.62	AV	193.00	400	Horizontal	Pass
3	5779.600	96.70	--	--	Peak	333.00	200	Horizontal	N/A
3**	5779.600	89.86	--	--	AV	333.00	200	Horizontal	N/A
4	7452.237	50.57	74.0	23.43	Peak	228.00	100	Horizontal	Pass
4**	7452.237	41.70	54.0	12.30	AV	228.00	100	Horizontal	Pass
5	11941.550	52.46	74.0	21.54	Peak	228.00	150	Horizontal	Pass
5**	11941.550	42.95	54.0	11.05	AV	228.00	150	Horizontal	Pass
6	15489.450	55.25	74.0	18.75	Peak	147.00	100	Horizontal	Pass
6**	15489.450	44.49	54.0	9.51	AV	147.00	100	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	1165.800	47.26	74.0	26.74	Peak	47.00	150	Vertical	Pass
1**	1165.800	30.61	54.0	23.39	AV	47.00	150	Vertical	Pass
2	1329.300	46.28	74.0	27.72	Peak	40.00	150	Vertical	Pass
2**	1329.300	32.82	54.0	21.18	AV	40.00	150	Vertical	Pass
3	1498.300	41.21	74.0	32.79	Peak	254.00	400	Vertical	Pass
3**	1498.300	31.12	54.0	22.88	AV	254.00	400	Vertical	Pass
4	4374.000	50.48	74.0	23.52	Peak	240.00	100	Vertical	Pass
4**	4374.000	40.83	54.0	13.17	AV	240.00	100	Vertical	Pass
5	5781.200	105.36	--	--	Peak	172.00	100	Vertical	N/A
5**	5781.200	97.60	--	--	AV	172.00	100	Vertical	N/A
6	15564.000	54.99	74.0	19.01	Peak	121.00	400	Vertical	Pass
6**	15564.000	46.24	54.0	7.76	AV	121.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.600	43.44	74.0	30.56	Peak	184.00	150	Horizontal	Pass
1**	1332.600	36.33	54.0	17.67	AV	184.00	150	Horizontal	Pass
2	3889.800	50.30	74.0	23.70	Peak	73.00	100	Horizontal	Pass
2**	3889.800	40.38	54.0	13.62	AV	73.00	100	Horizontal	Pass
3	5831.600	95.44	--	--	Peak	329.00	200	Horizontal	N/A
3**	5831.600	87.29	--	--	AV	329.00	200	Horizontal	N/A
4	7460.000	50.98	74.0	23.02	Peak	200.00	300	Horizontal	Pass
4**	7460.000	41.41	54.0	12.59	AV	200.00	300	Horizontal	Pass
5	12234.800	52.19	74.0	21.81	Peak	290.00	200	Horizontal	Pass
5**	12234.800	41.74	54.0	12.26	AV	290.00	200	Horizontal	Pass
6	15848.287	54.77	74.0	19.23	Peak	304.00	100	Horizontal	Pass
6**	15848.287	45.74	54.0	8.26	AV	304.00	100	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	1164.300	46.27	74.0	27.73	Peak	68.00	150	Vertical	Pass
1**	1164.300	33.62	54.0	20.38	AV	68.00	150	Vertical	Pass
2	1332.800	44.46	74.0	29.54	Peak	44.00	150	Vertical	Pass
2**	1332.800	33.86	54.0	20.14	AV	44.00	150	Vertical	Pass
3	1500.300	40.47	74.0	33.53	Peak	228.00	150	Vertical	Pass
3**	1500.300	29.81	54.0	24.19	AV	228.00	150	Vertical	Pass
4	5831.000	105.54	--	--	Peak	169.00	200	Vertical	N/A
4**	5831.000	97.88	--	--	AV	169.00	200	Vertical	N/A
5	7443.900	50.76	74.0	23.24	Peak	211.00	400	Vertical	Pass
5**	7443.900	42.17	54.0	11.83	AV	211.00	400	Vertical	Pass
6	16119.187	54.96	74.0	19.04	Peak	40.00	300	Vertical	Pass
6**	16119.187	45.12	54.0	8.88	AV	40.00	300	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	1328.500	43.63	74.0	30.37	Peak	176.00	150	Horizontal	Pass
1**	1328.500	36.04	54.0	17.96	AV	176.00	150	Horizontal	Pass
2	4391.400	51.63	74.0	22.37	Peak	166.00	400	Horizontal	Pass
2**	4391.400	41.43	54.0	12.57	AV	166.00	400	Horizontal	Pass
3	5750.200	96.97	--	--	Peak	333.00	100	Horizontal	N/A
3**	5750.200	89.75	--	--	AV	333.00	100	Horizontal	N/A
4	7331.775	50.72	74.0	23.28	Peak	200.00	100	Horizontal	Pass
4**	7331.775	41.34	54.0	12.66	AV	200.00	100	Horizontal	Pass
5	12002.787	51.79	74.0	22.21	Peak	42.00	150	Horizontal	Pass
5**	12002.787	41.81	54.0	12.19	AV	42.00	150	Horizontal	Pass
6	15839.625	55.49	74.0	18.51	Peak	0.00	100	Horizontal	Pass
6**	15839.625	46.00	54.0	8.00	AV	0.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1161.200	44.70	74.0	29.30	Peak	60.00	150	Vertical	Pass
1**	1161.200	29.60	54.0	24.40	AV	60.00	150	Vertical	Pass
2	1327.400	43.92	74.0	30.08	Peak	275.00	150	Vertical	Pass
2**	1327.400	31.74	54.0	22.26	AV	275.00	150	Vertical	Pass
3	1499.000	41.84	74.0	32.16	Peak	239.00	200	Vertical	Pass
3**	1499.000	30.00	54.0	24.00	AV	239.00	200	Vertical	Pass
4	4134.000	50.64	74.0	23.36	Peak	257.00	200	Vertical	Pass
4**	4134.000	41.20	54.0	12.80	AV	257.00	200	Vertical	Pass
5	5748.600	104.95	--	--	Peak	169.00	150	Vertical	N/A
5**	5748.600	96.69	--	--	AV	169.00	150	Vertical	N/A
6	15814.162	54.83	74.0	19.17	Peak	304.00	100	Vertical	Pass
6**	15814.162	45.93	54.0	8.07	AV	304.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1043.700	39.55	74.0	34.45	Peak	121.00	150	Horizontal	Pass
1**	1043.700	27.84	54.0	26.16	AV	121.00	150	Horizontal	Pass
2	1328.500	40.87	74.0	33.13	Peak	134.00	150	Horizontal	Pass
2**	1328.500	32.33	54.0	21.67	AV	134.00	150	Horizontal	Pass
3	3984.000	50.97	74.0	23.03	Peak	297.00	200	Horizontal	Pass
3**	3984.000	40.81	54.0	13.19	AV	297.00	200	Horizontal	Pass
4	5779.200	96.43	--	--	Peak	331.00	100	Horizontal	N/A
4**	5779.200	88.27	--	--	AV	331.00	100	Horizontal	N/A
5	7513.475	50.96	74.0	23.04	Peak	294.00	200	Horizontal	Pass
5**	7513.475	42.33	54.0	11.67	AV	294.00	200	Horizontal	Pass
6	16176.412	54.89	74.0	19.11	Peak	360.00	200	Horizontal	Pass
6**	16176.412	45.12	54.0	8.88	AV	360.00	200	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	1165.300	46.78	74.0	27.22	Peak	92.00	150	Vertical	Pass
1**	1165.300	38.06	54.0	15.94	AV	92.00	150	Vertical	Pass
2	1329.900	45.02	74.0	28.98	Peak	60.00	150	Vertical	Pass
2**	1329.900	37.92	54.0	16.08	AV	60.00	150	Vertical	Pass
3	4004.400	50.69	74.0	23.31	Peak	31.00	200	Vertical	Pass
3**	4004.400	41.14	54.0	12.86	AV	31.00	200	Vertical	Pass
4	5782.200	104.96	--	--	Peak	170.00	200	Vertical	N/A
4**	5782.200	96.98	--	--	AV	170.00	200	Vertical	N/A
5	7488.462	50.86	74.0	23.14	Peak	137.00	300	Vertical	Pass
5**	7488.462	40.98	54.0	13.02	AV	137.00	300	Vertical	Pass
6	16056.450	55.77	74.0	18.23	Peak	179.00	200	Vertical	Pass
6**	16056.450	45.43	54.0	8.57	AV	179.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1328.200	40.34	74.0	33.66	Peak	140.00	150	Horizontal	Pass
1**	1328.200	31.29	54.0	22.71	AV	140.00	150	Horizontal	Pass
2	1993.900	42.85	68.2	25.35	Peak	120.00	150	Horizontal	Pass
2**	1993.900	31.73	--	--	AV	120.00	150	Horizontal	N/A
3	5829.600	94.91	--	--	Peak	332.00	150	Horizontal	N/A
3**	5829.600	87.00	--	--	AV	332.00	150	Horizontal	N/A
4	7331.200	50.32	74.0	23.68	Peak	243.00	300	Horizontal	Pass
4**	7331.200	40.69	54.0	13.31	AV	243.00	300	Horizontal	Pass
5	11774.513	51.92	74.0	22.08	Peak	360.00	200	Horizontal	Pass
5**	11774.513	42.60	54.0	11.40	AV	360.00	200	Horizontal	Pass
6	15562.951	54.94	74.0	19.06	Peak	58.00	200	Horizontal	Pass
6**	15562.951	45.12	54.0	8.88	AV	58.00	200	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	1162.800	46.97	74.0	27.03	Peak	49.00	150	Vertical	Pass
1**	1162.800	34.90	54.0	19.10	AV	49.00	150	Vertical	Pass
2	1331.600	44.87	74.0	29.13	Peak	49.00	150	Vertical	Pass
2**	1331.600	31.19	54.0	22.81	AV	49.00	150	Vertical	Pass
3	1499.200	39.92	74.0	34.08	Peak	247.00	300	Vertical	Pass
3**	1499.200	30.03	54.0	23.97	AV	247.00	300	Vertical	Pass
4	4379.200	50.65	74.0	23.35	Peak	357.00	400	Vertical	Pass
4**	4379.200	41.95	54.0	12.05	AV	357.00	400	Vertical	Pass
5	5830.200	105.20	--	--	Peak	172.00	200	Vertical	N/A
5**	5830.200	97.28	--	--	AV	172.00	200	Vertical	N/A
6	15692.625	54.93	74.0	19.07	Peak	294.00	300	Vertical	Pass
6**	15692.625	45.05	54.0	8.95	AV	294.00	300	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	1332.700	41.92	74.0	32.08	Peak	174.00	150	Horizontal	Pass
1**	1332.700	30.25	54.0	23.75	AV	174.00	150	Horizontal	Pass
2	4116.800	50.08	74.0	23.92	Peak	77.00	400	Horizontal	Pass
2**	4116.800	40.64	54.0	13.36	AV	77.00	400	Horizontal	Pass
3	5752.600	93.59	--	--	Peak	337.00	150	Horizontal	N/A
3**	5752.600	86.03	--	--	AV	337.00	150	Horizontal	N/A
4	7507.438	50.30	74.0	23.70	Peak	179.00	100	Horizontal	Pass
4**	7507.438	40.90	54.0	13.10	AV	179.00	100	Horizontal	Pass
5	12572.613	51.90	74.0	22.10	Peak	0.00	100	Horizontal	Pass
5**	12572.613	42.75	54.0	11.25	AV	0.00	100	Horizontal	Pass
6	16099.763	54.57	74.0	19.43	Peak	107.00	300	Horizontal	Pass
6**	16099.763	45.63	54.0	8.37	AV	107.00	300	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	1162.200	48.12	74.0	25.88	Peak	51.00	150	Vertical	Pass
1**	1162.200	32.92	54.0	21.08	AV	51.00	150	Vertical	Pass
2	1327.900	44.87	74.0	29.13	Peak	105.00	150	Vertical	Pass
2**	1327.900	35.00	54.0	19.00	AV	105.00	150	Vertical	Pass
3	1497.000	40.82	74.0	33.18	Peak	237.00	200	Vertical	Pass
3**	1497.000	30.20	54.0	23.80	AV	237.00	200	Vertical	Pass
4	5757.600	101.13	--	--	Peak	176.00	200	Vertical	N/A
4**	5757.600	94.07	--	--	AV	176.00	200	Vertical	N/A
5	7339.250	50.29	74.0	23.71	Peak	88.00	100	Vertical	Pass
5**	7339.250	41.48	54.0	12.52	AV	88.00	100	Vertical	Pass
6	15658.237	55.21	74.0	18.79	Peak	249.00	300	Vertical	Pass
6**	15658.237	44.83	54.0	9.17	AV	249.00	300	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	1329.900	41.63	74.0	32.37	Peak	183.00	150	Horizontal	Pass
1**	1329.900	29.78	54.0	24.22	AV	183.00	150	Horizontal	Pass
2	2662.000	47.07	68.2	21.13	Peak	157.00	150	Horizontal	Pass
2**	2662.000	34.62	--	--	AV	157.00	150	Horizontal	N/A
3	5810.800	92.09	--	--	Peak	330.00	200	Horizontal	N/A
3**	5810.800	85.49	--	--	AV	330.00	200	Horizontal	N/A
4	7511.750	50.26	74.0	23.74	Peak	291.00	400	Horizontal	Pass
4**	7511.750	41.18	54.0	12.82	AV	291.00	400	Horizontal	Pass
5	12293.162	52.42	74.0	21.58	Peak	238.00	200	Horizontal	Pass
5**	12293.162	42.14	54.0	11.86	AV	238.00	200	Horizontal	Pass
6	15566.363	54.74	74.0	19.26	Peak	157.00	100	Horizontal	Pass
6**	15566.363	45.79	54.0	8.21	AV	157.00	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	1165.400	48.15	74.0	25.85	Peak	65.00	150	Vertical	Pass
1**	1165.400	31.61	54.0	22.39	AV	65.00	150	Vertical	Pass
2	1327.800	45.52	74.0	28.48	Peak	267.00	150	Vertical	Pass
2**	1327.800	35.06	54.0	18.94	AV	267.00	150	Vertical	Pass
3	1494.500	41.07	74.0	32.93	Peak	267.00	150	Vertical	Pass
3**	1494.500	29.89	54.0	24.11	AV	267.00	150	Vertical	Pass
4	5781.800	101.20	--	--	Peak	174.00	100	Vertical	N/A
4**	5781.800	94.76	--	--	AV	174.00	100	Vertical	N/A
5	7447.350	50.29	74.0	23.71	Peak	209.00	100	Vertical	Pass
5**	7447.350	42.56	54.0	11.44	AV	209.00	100	Vertical	Pass
6	15481.050	55.12	74.0	18.88	Peak	0.00	200	Vertical	Pass
6**	15481.050	45.26	54.0	8.74	AV	0.00	200	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	1010.200	41.11	74.0	32.89	Peak	126.00	150	Horizontal	Pass
1**	1010.200	27.73	54.0	26.27	AV	126.00	150	Horizontal	Pass
2	1332.800	42.91	74.0	31.09	Peak	181.00	150	Horizontal	Pass
2**	1332.800	35.87	54.0	18.13	AV	181.00	150	Horizontal	Pass
3	1499.100	39.83	74.0	34.17	Peak	295.00	300	Horizontal	Pass
3**	1499.100	29.74	54.0	24.26	AV	295.00	300	Horizontal	Pass
4	4232.000	50.28	74.0	23.72	Peak	171.00	100	Horizontal	Pass
4**	4232.000	41.06	54.0	12.94	AV	171.00	100	Horizontal	Pass
5	5748.800	97.08	--	--	Peak	332.00	100	Horizontal	N/A
5**	5748.800	89.65	--	--	AV	332.00	100	Horizontal	N/A
6	16126.012	55.10	74.0	18.90	Peak	334.00	400	Horizontal	Pass
6**	16126.012	45.90	54.0	8.10	AV	334.00	400	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	1163.100	46.01	74.0	27.99	Peak	31.00	150	Vertical	Pass
1**	1163.100	35.28	54.0	18.72	AV	31.00	150	Vertical	Pass
2	1330.900	45.58	74.0	28.42	Peak	43.00	150	Vertical	Pass
2**	1330.900	37.88	54.0	16.12	AV	43.00	150	Vertical	Pass
3	4383.800	50.33	74.0	23.67	Peak	222.00	200	Vertical	Pass
3**	4383.800	40.79	54.0	13.21	AV	222.00	200	Vertical	Pass
4	5750.400	104.42	--	--	Peak	172.00	200	Vertical	N/A
4**	5750.400	97.30	--	--	AV	172.00	200	Vertical	N/A
5	10918.625	52.13	74.0	21.87	Peak	343.00	150	Vertical	Pass
5**	10918.625	43.13	54.0	10.87	AV	343.00	150	Vertical	Pass
6	15827.025	55.51	74.0	18.49	Peak	315.00	200	Vertical	Pass
6**	15827.025	45.50	54.0	8.50	AV	315.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1331.700	42.54	74.0	31.46	Peak	188.00	150	Horizontal	Pass
1**	1331.700	32.17	54.0	21.83	AV	188.00	150	Horizontal	Pass
2	3727.400	49.92	74.0	24.08	Peak	280.00	150	Horizontal	Pass
2**	3727.400	41.07	54.0	12.93	AV	280.00	150	Horizontal	Pass
3	5781.400	96.31	--	--	Peak	337.00	200	Horizontal	N/A
3**	5781.400	88.72	--	--	AV	337.00	200	Horizontal	N/A
4	7602.025	49.76	74.0	24.24	Peak	153.00	400	Horizontal	Pass
4**	7602.025	39.92	54.0	14.08	AV	153.00	400	Horizontal	Pass
5	11917.112	51.99	74.0	22.01	Peak	82.00	150	Horizontal	Pass
5**	11917.112	42.65	54.0	11.35	AV	82.00	150	Horizontal	Pass
6	15969.825	54.75	74.0	19.25	Peak	81.00	100	Horizontal	Pass
6**	15969.825	44.81	54.0	9.19	AV	81.00	100	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	1163.600	46.15	74.0	27.85	Peak	40.00	150	Vertical	Pass
1**	1163.600	32.74	54.0	21.26	AV	40.00	150	Vertical	Pass
2	1331.800	45.40	74.0	28.60	Peak	46.00	150	Vertical	Pass
2**	1331.800	39.76	54.0	14.24	AV	46.00	150	Vertical	Pass
3	1493.000	43.62	74.0	30.38	Peak	245.00	300	Vertical	Pass
3**	1493.000	29.11	54.0	24.89	AV	245.00	300	Vertical	Pass
4	3928.600	50.79	74.0	23.21	Peak	20.00	400	Vertical	Pass
4**	3928.600	40.26	54.0	13.74	AV	20.00	400	Vertical	Pass
5	5779.600	105.00	--	--	Peak	169.00	200	Vertical	N/A
5**	5779.600	97.58	--	--	AV	169.00	200	Vertical	N/A
6	15518.063	54.83	74.0	19.17	Peak	98.00	300	Vertical	Pass
6**	15518.063	45.81	54.0	8.19	AV	98.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.100	39.67	74.0	34.33	Peak	177.00	150	Horizontal	Pass
1**	1329.100	29.42	54.0	24.58	AV	177.00	150	Horizontal	Pass
2	4176.800	50.57	74.0	23.43	Peak	257.00	300	Horizontal	Pass
2**	4176.800	41.23	54.0	12.77	AV	257.00	300	Horizontal	Pass
3	5829.600	94.78	--	--	Peak	332.00	150	Horizontal	N/A
3**	5829.600	86.62	--	--	AV	332.00	150	Horizontal	N/A
4	7456.838	50.15	74.0	23.85	Peak	34.00	100	Horizontal	Pass
4**	7456.838	41.05	54.0	12.95	AV	34.00	100	Horizontal	Pass
5	12500.450	52.42	74.0	21.58	Peak	69.00	100	Horizontal	Pass
5**	12500.450	42.41	54.0	11.59	AV	69.00	100	Horizontal	Pass
6	16129.950	55.16	74.0	18.84	Peak	0.00	300	Horizontal	Pass
6**	16129.950	46.65	54.0	7.35	AV	0.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1164.500	46.95	74.0	27.05	Peak	38.00	150	Vertical	Pass
1**	1164.500	37.28	54.0	16.72	AV	38.00	150	Vertical	Pass
2	1332.500	44.05	74.0	29.95	Peak	128.00	150	Vertical	Pass
2**	1332.500	31.92	54.0	22.08	AV	128.00	150	Vertical	Pass
3	1498.400	41.87	74.0	32.13	Peak	236.00	100	Vertical	Pass
3**	1498.400	30.06	54.0	23.94	AV	236.00	100	Vertical	Pass
4	5830.000	104.66	--	--	Peak	170.00	200	Vertical	N/A
4**	5830.000	96.33	--	--	AV	170.00	200	Vertical	N/A
5	7595.125	50.66	74.0	23.34	Peak	230.00	200	Vertical	Pass
5**	7595.125	40.02	54.0	13.98	AV	230.00	200	Vertical	Pass
6	15351.638	55.54	74.0	18.46	Peak	45.00	100	Vertical	Pass
6**	15351.638	45.16	54.0	8.84	AV	45.00	100	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	1330.000	40.27	74.0	33.73	Peak	184.00	150	Horizontal	Pass
1**	1330.000	29.36	54.0	24.64	AV	184.00	150	Horizontal	Pass
2	3860.600	50.62	74.0	23.38	Peak	21.00	400	Horizontal	Pass
2**	3860.600	40.09	54.0	13.91	AV	21.00	400	Horizontal	Pass
3	5757.400	93.09	--	--	Peak	338.00	200	Horizontal	N/A
3**	5757.400	85.30	--	--	AV	338.00	200	Horizontal	N/A
4	7446.488	50.82	74.0	23.18	Peak	0.00	200	Horizontal	Pass
4**	7446.488	42.48	54.0	11.52	AV	0.00	200	Horizontal	Pass
5	12518.275	51.91	74.0	22.09	Peak	201.00	150	Horizontal	Pass
5**	12518.275	41.90	54.0	12.10	AV	201.00	150	Horizontal	Pass
6	16104.750	54.93	74.0	19.07	Peak	0.00	400	Horizontal	Pass
6**	16104.750	46.09	54.0	7.91	AV	0.00	400	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	1162.600	47.71	74.0	26.29	Peak	46.00	150	Vertical	Pass
1**	1162.600	32.86	54.0	21.14	AV	46.00	150	Vertical	Pass
2	1332.400	43.06	74.0	30.94	Peak	120.00	150	Vertical	Pass
2**	1332.400	33.38	54.0	20.62	AV	120.00	150	Vertical	Pass
3	1496.100	40.84	74.0	33.16	Peak	262.00	150	Vertical	Pass
3**	1496.100	29.69	54.0	24.31	AV	262.00	150	Vertical	Pass
4	5769.400	101.23	--	--	Peak	157.00	150	Vertical	N/A
4**	5769.400	93.83	--	--	AV	157.00	150	Vertical	N/A
5	7506.000	50.78	74.0	23.22	Peak	123.00	100	Vertical	Pass
5**	7506.000	41.21	54.0	12.79	AV	123.00	100	Vertical	Pass
6	15555.075	54.85	74.0	19.15	Peak	0.00	100	Vertical	Pass
6**	15555.075	45.63	54.0	8.37	AV	0.00	100	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	1328.100	40.81	74.0	33.19	Peak	134.00	150	Horizontal	Pass
1**	1328.100	29.53	54.0	24.47	AV	134.00	150	Horizontal	Pass
2	4385.800	50.32	74.0	23.68	Peak	126.00	100	Horizontal	Pass
2**	4385.800	41.92	54.0	12.08	AV	126.00	100	Horizontal	Pass
3	5780.000	91.81	--	--	Peak	334.00	150	Horizontal	N/A
3**	5780.000	84.29	--	--	AV	334.00	150	Horizontal	N/A
4	7449.937	51.32	74.0	22.68	Peak	1.00	300	Horizontal	Pass
4**	7449.937	41.83	54.0	12.17	AV	1.00	300	Horizontal	Pass
5	11932.349	52.08	74.0	21.92	Peak	329.00	150	Horizontal	Pass
5**	11932.349	42.68	54.0	11.32	AV	329.00	150	Horizontal	Pass
6	15565.312	55.02	74.0	18.98	Peak	236.00	400	Horizontal	Pass
6**	15565.312	45.60	54.0	8.40	AV	236.00	400	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	1166.300	47.42	74.0	26.58	Peak	30.00	150	Vertical	Pass
1**	1166.300	28.83	54.0	25.17	AV	30.00	150	Vertical	Pass
2	1333.100	45.76	74.0	28.24	Peak	36.00	150	Vertical	Pass
2**	1333.100	36.54	54.0	17.46	AV	36.00	150	Vertical	Pass
3	1497.500	40.85	74.0	33.15	Peak	228.00	150	Vertical	Pass
3**	1497.500	31.59	54.0	22.41	AV	228.00	150	Vertical	Pass
4	5809.200	100.81	--	--	Peak	170.00	100	Vertical	N/A
4**	5809.200	92.82	--	--	AV	170.00	100	Vertical	N/A
5	7383.237	50.92	74.0	23.08	Peak	312.00	150	Vertical	Pass
5**	7383.237	41.78	54.0	12.22	AV	312.00	150	Vertical	Pass
6	15819.412	55.14	74.0	18.86	Peak	294.00	200	Vertical	Pass
6**	15819.412	45.59	54.0	8.41	AV	294.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1552.100	39.46	74.0	34.54	Peak	360.00	300	Horizontal	Pass
1**	1552.100	29.41	54.0	24.59	AV	360.00	300	Horizontal	Pass
2	4081.200	50.52	74.0	23.48	Peak	353.00	400	Horizontal	Pass
2**	4081.200	41.58	54.0	12.42	AV	353.00	400	Horizontal	Pass
3	5757.000	90.41	--	--	Peak	341.00	100	Horizontal	N/A
3**	5757.000	81.72	--	--	AV	341.00	100	Horizontal	N/A
4	7440.450	51.72	74.0	22.28	Peak	360.00	200	Horizontal	Pass
4**	7440.450	42.01	54.0	11.99	AV	360.00	200	Horizontal	Pass
5	12223.013	51.94	74.0	22.06	Peak	31.00	150	Horizontal	Pass
5**	12223.013	42.92	54.0	11.08	AV	31.00	150	Horizontal	Pass
6	15528.563	55.29	74.0	18.71	Peak	97.00	200	Horizontal	Pass
6**	15528.563	45.26	54.0	8.74	AV	97.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1162.600	46.65	74.0	27.35	Peak	54.00	150	Vertical	Pass
1**	1162.600	30.45	54.0	23.55	AV	54.00	150	Vertical	Pass
2	1328.700	45.67	74.0	28.33	Peak	40.00	150	Vertical	Pass
2**	1328.700	29.84	54.0	24.16	AV	40.00	150	Vertical	Pass
3	1496.500	42.24	74.0	31.76	Peak	239.00	200	Vertical	Pass
3**	1496.500	29.74	54.0	24.26	AV	239.00	200	Vertical	Pass
4	5802.000	98.06	--	--	Peak	170.00	100	Vertical	N/A
4**	5802.000	90.92	--	--	AV	170.00	100	Vertical	N/A
5	7467.188	50.82	74.0	23.18	Peak	207.00	200	Vertical	Pass
5**	7467.188	41.67	54.0	12.33	AV	207.00	200	Vertical	Pass
6	16145.175	54.71	74.0	19.29	Peak	18.00	400	Vertical	Pass
6**	16145.175	45.67	54.0	8.33	AV	18.00	400	Vertical	Pass

5.5.4.2. 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-2A	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
U-NII-3	802.11ac(VHT80)	Middle	Pass
		Middle	Pass

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

SISO-Antenna A

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	5105.475	57.72	74.0	16.28	Peak	158.00	150	Vertical	Pass
1**	5105.475	46.29	54.0	7.71	AV	158.00	150	Vertical	Pass
2	5150.000	55.40	74.0	18.60	Peak	119.00	200	Vertical	Pass
2**	5150.000	46.01	54.0	7.99	AV	119.00	200	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	5350.055	55.24	74.0	18.76	Peak	276.00	200	Vertical	Pass
1**	5350.055	45.92	54.0	8.08	AV	276.00	200	Vertical	Pass
2	5361.165	58.03	74.0	15.97	Peak	328.00	150	Vertical	Pass
2**	5361.165	46.30	54.0	7.70	AV	328.00	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	5009.275	57.56	74.0	16.44	Peak	328.00	200	Vertical	Pass
1**	5009.275	46.10	54.0	7.90	AV	328.00	200	Vertical	Pass
2	5150.000	55.29	74.0	18.71	Peak	221.00	150	Vertical	Pass
2**	5150.000	45.92	54.0	8.08	AV	221.00	150	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	5350.055	55.36	74.0	18.64	Peak	332.00	100	Vertical	Pass
1**	5350.055	45.81	54.0	8.19	AV	332.00	100	Vertical	Pass
2	5360.395	58.06	74.0	15.94	Peak	70.00	150	Vertical	Pass
2**	5360.395	46.26	54.0	7.74	AV	70.00	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	5074.275	57.36	74.0	16.64	Peak	176.00	150	Vertical	Pass
1**	5074.275	46.29	54.0	7.71	AV	176.00	150	Vertical	Pass
2	5150.000	55.58	74.0	18.42	Peak	144.00	200	Vertical	Pass
2**	5150.000	46.18	54.0	7.82	AV	144.00	200	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	54.89	74.0	19.11	Peak	234.00	200	Vertical	Pass
1**	5350.055	45.48	54.0	8.52	AV	234.00	200	Vertical	Pass
2	5380.305	58.16	74.0	15.84	Peak	90.00	200	Vertical	Pass
2**	5380.305	46.51	54.0	7.49	AV	90.00	200	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	5107.425	57.29	74.0	16.71	Peak	239.00	150	Vertical	Pass
1**	5107.425	46.18	54.0	7.82	AV	239.00	150	Vertical	Pass
2	5150.000	55.65	74.0	18.35	Peak	125.00	200	Vertical	Pass
2**	5150.000	46.16	54.0	7.84	AV	125.00	200	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	55.76	74.0	18.24	Peak	236.00	100	Vertical	Pass
1**	5350.000	45.69	54.0	8.31	AV	236.00	100	Vertical	Pass
2	5381.570	58.66	74.0	15.34	Peak	135.00	150	Vertical	Pass
2**	5381.570	46.29	54.0	7.71	AV	135.00	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	5100.275	58.15	74.0	15.85	Peak	293.00	100	Vertical	Pass
1**	5100.275	46.49	54.0	7.51	AV	293.00	100	Vertical	Pass
2	5150.000	56.05	74.0	17.95	Peak	125.00	150	Vertical	Pass
2**	5150.000	46.17	54.0	7.83	AV	125.00	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	55.42	74.0	18.58	Peak	168.00	100	Vertical	Pass
1**	5350.000	45.81	54.0	8.19	AV	168.00	100	Vertical	Pass
2	5439.430	58.20	74.0	15.80	Peak	0.00	200	Vertical	Pass
2**	5439.430	46.24	54.0	7.76	AV	0.00	200	Vertical	Pass

U-NII-1 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5093.450	57.88	74.0	16.12	Peak	56.00	200	Vertical	Pass
1**	5093.450	46.41	54.0	7.59	AV	56.00	200	Vertical	Pass
2	5150.000	55.82	74.0	18.18	Peak	134.00	150	Vertical	Pass
2**	5150.000	46.38	54.0	7.62	AV	134.00	150	Vertical	Pass

U-NII-1 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	56.01	74.0	17.99	Peak	351.00	150	Vertical	Pass
1**	5350.055	45.46	54.0	8.54	AV	351.00	150	Vertical	Pass
2	5456.920	58.09	74.0	15.91	Peak	150.00	200	Vertical	Pass
2**	5456.920	46.64	54.0	7.36	AV	150.00	200	Vertical	Pass

U-NII-2A 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5090.525	57.82	74.0	16.18	Peak	145.00	100	Vertical	Pass
1**	5090.525	46.54	54.0	7.46	AV	145.00	100	Vertical	Pass
2	5150.000	55.60	74.0	18.40	Peak	103.00	100	Vertical	Pass
2**	5150.000	46.48	54.0	7.52	AV	103.00	100	Vertical	Pass

U-NII-2A 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.82	74.0	18.18	Peak	192.00	200	Vertical	Pass
1**	5350.000	45.61	54.0	8.39	AV	192.00	200	Vertical	Pass
2	5381.680	58.30	74.0	15.70	Peak	316.00	200	Vertical	Pass
2**	5381.680	46.32	54.0	7.68	AV	316.00	200	Vertical	Pass

U-NII-2A 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5042.750	57.60	74.0	16.40	Peak	88.00	100	Vertical	Pass
1**	5042.750	45.60	54.0	8.40	AV	88.00	100	Vertical	Pass
2	5150.000	55.47	74.0	18.53	Peak	218.00	200	Vertical	Pass
2**	5150.000	46.51	54.0	7.49	AV	218.00	200	Vertical	Pass

U-NII-2A 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.42	74.0	18.58	Peak	339.00	100	Vertical	Pass
1**	5350.000	45.70	54.0	8.30	AV	339.00	100	Vertical	Pass
2	5456.590	58.65	74.0	15.35	Peak	360.00	100	Vertical	Pass
2**	5456.590	46.69	54.0	7.31	AV	360.00	100	Vertical	Pass

U-NII-2A 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5090.200	57.85	74.0	16.15	Peak	236.00	200	Vertical	Pass
1**	5090.200	46.37	54.0	7.63	AV	236.00	200	Vertical	Pass
2	5150.000	55.75	74.0	18.25	Peak	67.00	150	Vertical	Pass
2**	5150.000	46.26	54.0	7.74	AV	67.00	150	Vertical	Pass

U-NII-2A 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.81	74.0	18.19	Peak	249.00	200	Vertical	Pass
1**	5350.000	45.82	54.0	8.18	AV	249.00	200	Vertical	Pass
2	5455.325	58.35	74.0	15.65	Peak	195.00	100	Vertical	Pass
2**	5455.325	46.40	54.0	7.60	AV	195.00	100	Vertical	Pass

U-NII-2A 11ac20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5097.025	57.73	74.0	16.27	Peak	338.00	100	Vertical	Pass
1**	5097.025	46.21	54.0	7.79	AV	338.00	100	Vertical	Pass
2	5150.000	55.64	74.0	18.36	Peak	360.00	200	Vertical	Pass
2**	5150.000	46.45	54.0	7.55	AV	360.00	200	Vertical	Pass

U-NII-2A 11ac20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.77	74.0	18.23	Peak	0.00	200	Vertical	Pass
1**	5350.000	45.66	54.0	8.34	AV	0.00	200	Vertical	Pass
2	5448.835	57.92	74.0	16.08	Peak	155.00	100	Vertical	Pass
2**	5448.835	46.38	54.0	7.62	AV	155.00	100	Vertical	Pass

U-NII-2A 11ac40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5126.925	57.59	74.0	16.41	Peak	158.00	200	Vertical	Pass
1**	5126.925	45.64	54.0	8.36	AV	158.00	200	Vertical	Pass
2	5150.000	56.24	74.0	17.76	Peak	13.00	150	Vertical	Pass
2**	5150.000	46.26	54.0	7.74	AV	13.00	150	Vertical	Pass

U-NII-2A 11ac40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.14	74.0	18.86	Peak	250.00	150	Vertical	Pass
1**	5350.000	46.22	54.0	7.78	AV	250.00	150	Vertical	Pass
2	5457.855	58.23	74.0	15.77	Peak	351.00	150	Vertical	Pass
2**	5457.855	46.55	54.0	7.45	AV	351.00	150	Vertical	Pass

U-NII-2A 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5089.550	57.31	74.0	16.69	Peak	105.00	100	Vertical	Pass
1**	5089.550	46.40	54.0	7.60	AV	105.00	100	Vertical	Pass
2	5150.000	55.57	74.0	18.43	Peak	118.00	100	Vertical	Pass
2**	5150.000	46.01	54.0	7.99	AV	118.00	100	Vertical	Pass

U-NII-2A 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	56.21	74.0	17.79	Peak	118.00	200	Vertical	Pass
1**	5350.055	45.69	54.0	8.31	AV	118.00	200	Vertical	Pass
2	5360.010	58.27	74.0	15.73	Peak	112.00	200	Vertical	Pass
2**	5360.010	46.17	54.0	7.83	AV	112.00	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	5641.600	58.48	68.2	9.72	Peak	296.00	200	Vertical	Pass
2	5650.000	56.63	68.2	11.57	Peak	278.00	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	56.61	68.2	11.59	Peak	117.00	100	Vertical	Pass
2	5928.800	58.99	68.2	9.21	Peak	204.00	150	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	5648.750	58.86	68.2	9.34	Peak	268.00	200	Vertical	Pass
2	5650.000	57.14	68.2	11.06	Peak	257.00	150	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	56.84	68.2	11.36	Peak	228.00	100	Vertical	Pass
2	5942.250	58.84	68.2	9.36	Peak	6.00	150	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	5639.050	58.06	68.2	10.14	Peak	277.00	200	Vertical	Pass
2	5650.000	56.58	68.2	11.62	Peak	57.00	200	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	57.91	68.2	10.29	Peak	290.00	200	Vertical	Pass
2	5940.450	58.87	68.2	9.33	Peak	290.00	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	5645.900	58.11	68.2	10.09	Peak	360.00	100	Vertical	Pass
2	5650.000	56.91	68.2	11.29	Peak	172.00	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	56.14	68.2	12.06	Peak	220.00	150	Vertical	Pass
2	5940.700	58.81	68.2	9.39	Peak	266.00	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	5636.600	59.35	68.2	8.85	Peak	160.00	150	Vertical	Pass
2	5650.000	56.75	68.2	11.45	Peak	210.00	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	56.69	68.2	11.51	Peak	134.00	200	Vertical	Pass
2	5941.550	58.60	68.2	9.60	Peak	0.00	100	Vertical	Pass

U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5644.650	58.52	68.2	9.68	Peak	65.00	100	Vertical	Pass
2	5650.000	56.77	68.2	11.43	Peak	322.00	200	Vertical	Pass

U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.97	68.2	11.23	Peak	275.00	200	Vertical	Pass
2	5940.050	58.78	68.2	9.42	Peak	353.00	200	Vertical	Pass

ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

Below 30MHz



Close-up



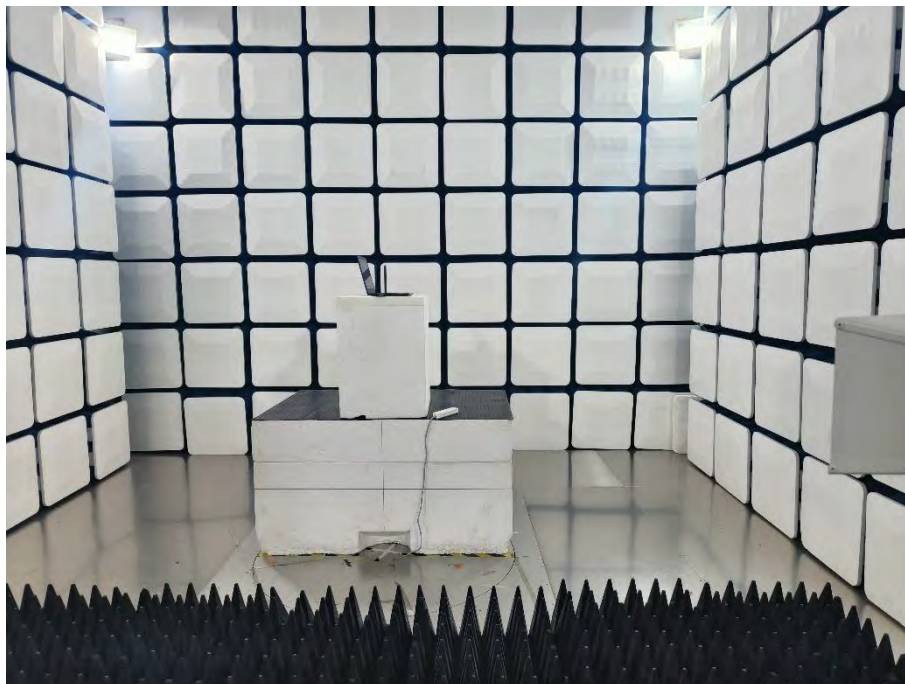
30MHz-1GHz



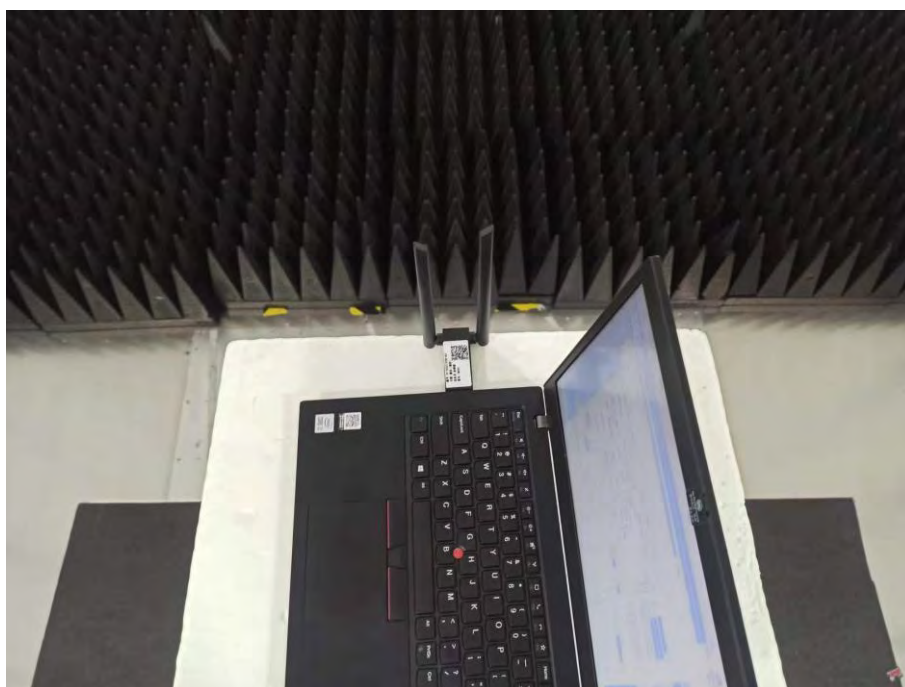
Close-up



Above 1GHz

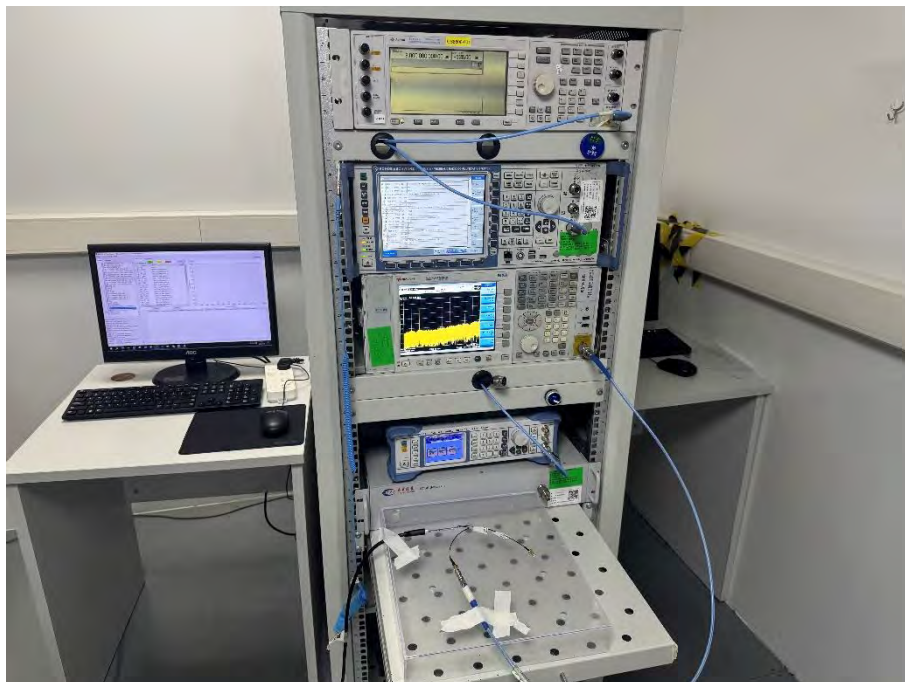


Close-up



2 Conducted Test Photo

Conducted Test



3 Conducted Emissions

Test Photo 1



Test Photo 2



ANNEX B EUT EXTERNAL PHOTOS

FRONT VIEW OF EUT



REAR VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



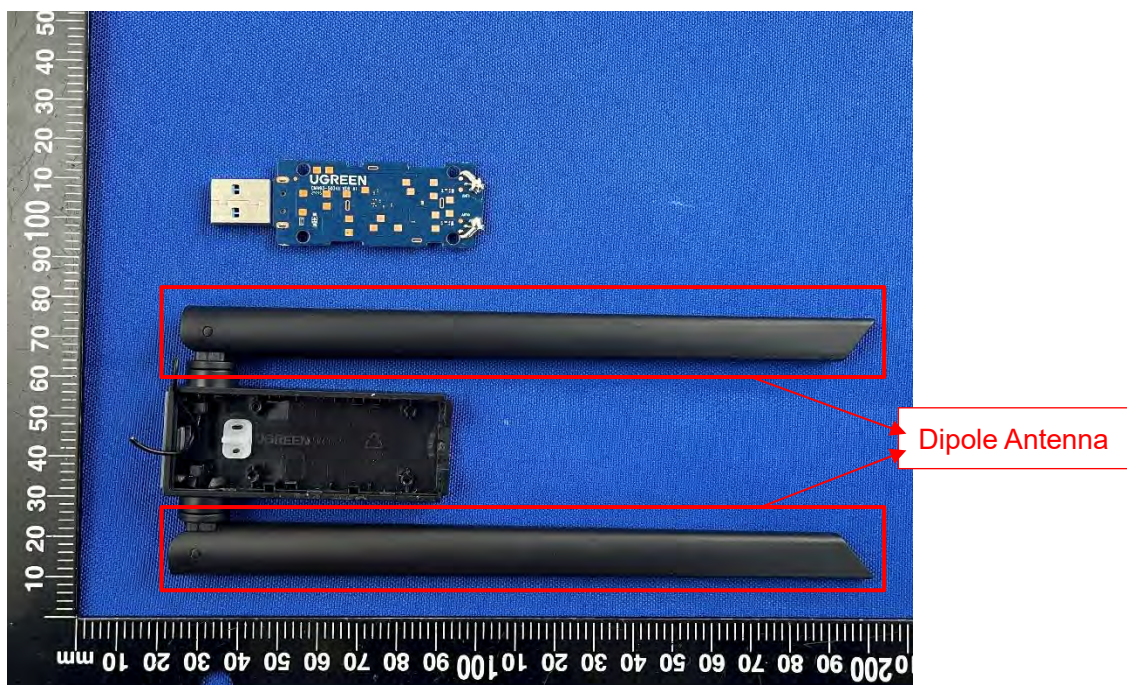


ANNEX C EUT INTERNAL PHOTOS

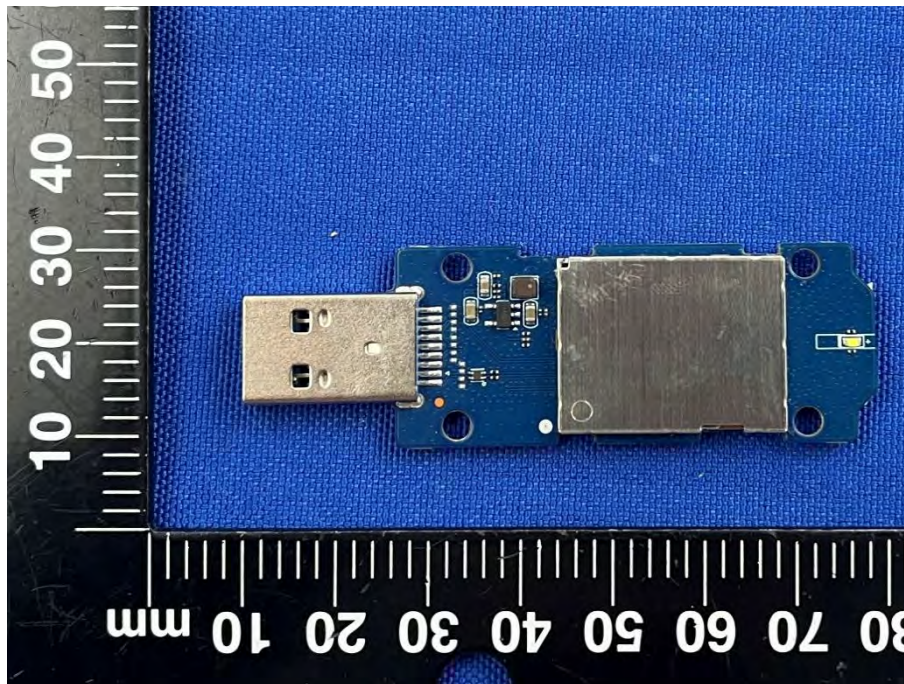
EUT UNCOVER VIEW 1



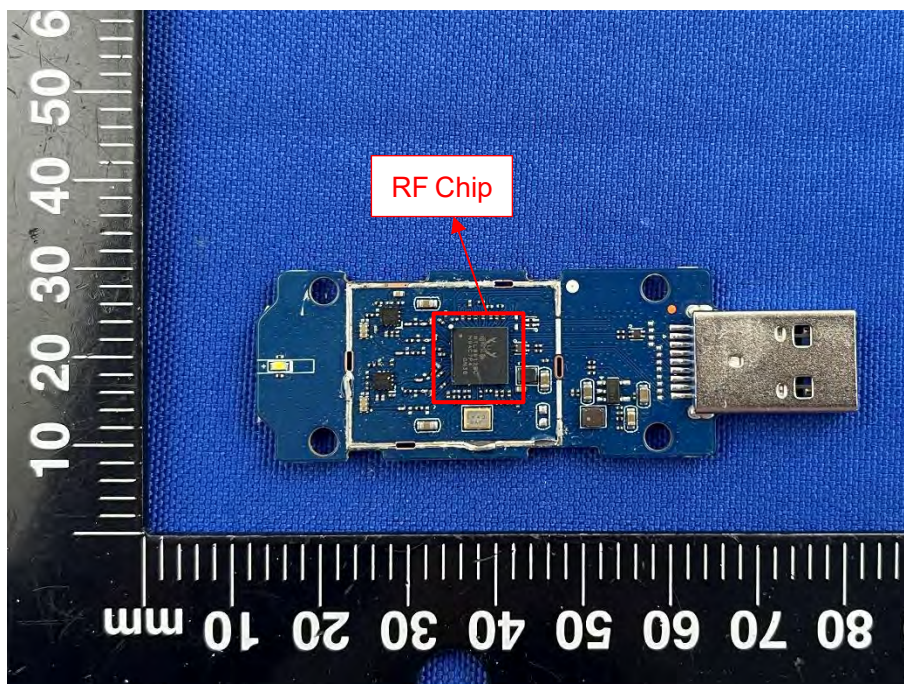
EUT UNCOVER VIEW 2



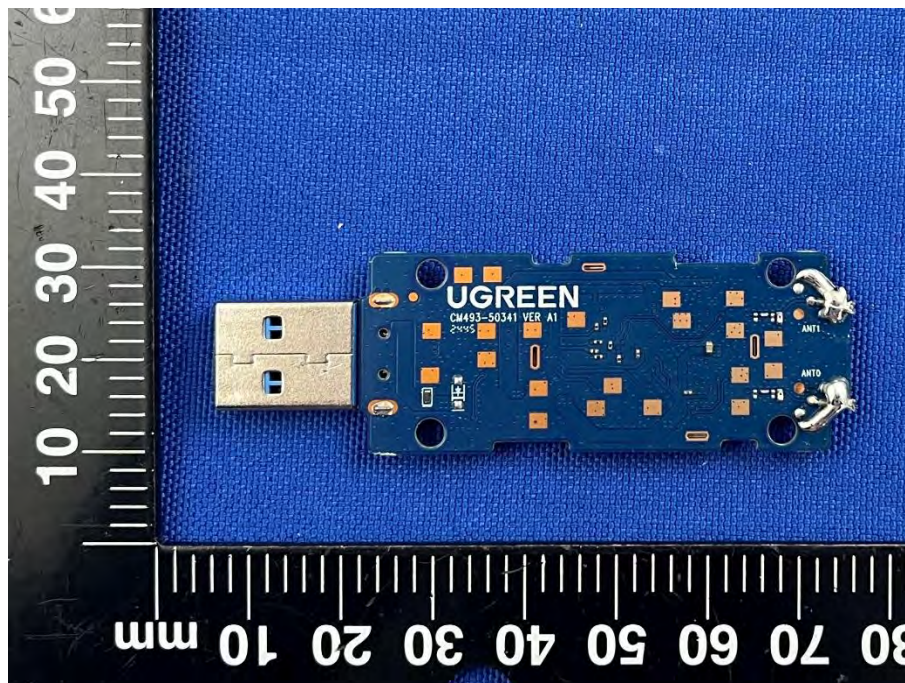
MAIN BOARD TOP VIEW (WITH SHIELDING)



MAIN BOARD TOP VIEW (WITHOUT SHIELDING)



MAIN BOARD REAR VIEW



Statement

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--END OF REPORT--