



中国认可
国际互认
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 Dual Band Wi-Fi Adapter
Model Name: CM492 (refer to section 2.4)
Brand Name: **UGREEN**
FCC ID: 2AQI5-50340
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Mar. 03, 2025
Test Date: Mar. 07, 2025 - Mar. 11, 2025
Date of Issue: Apr. 16, 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>Apr. 16, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	Factory Information	5
2.4	General Description for Equipment under Test (EUT)	5
2.5	Technical Information	6
2.6	Channel List	8
3	SUMMARY OF TEST RESULTS	11
3.1	Test Standards	11
3.2	Test Verdict	11
4	GENERAL TEST CONFIGURATIONS	12
4.1	Test Environments	12
4.2	Test Equipment List	12
4.3	Test Software List	13
4.4	Measurement Uncertainty	13
4.5	Description of Test Setup	14
5	TEST ITEMS	17
5.1	RF Output Power	17
5.2	Emission Bandwidth and 6 dB Bandwidth	29
5.3	Power Spectral density (PSD)	33
5.4	Conducted Emission	36

5.5	Radiated Spurious Emissions and Band Edge (Restricted-band).....	39
ANNEX A	TEST SETUP PHOTOS	96
1	Radiated Test Photo.....	96
2	Conducted Test Photo.....	99
3	Conducted Emissions.....	99
ANNEX B	EUT EXTERNAL PHOTOS	101
ANNEX C	EUT INTERNAL PHOTOS	105

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	Yingtang industry park, Qinghua Blvd Liangfu industry district, Lishi town, Dingnan, GanZhou, JiangXi province

2.4 General Description for Equipment under Test (EUT)

EUT Name	AC1300 USB Dual Band Wi-Fi Adapter
Model Name Under Test	CM492
Series Model Name	50340
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	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.

50340	50340EU	50340UK	50340US	50340JP	50340CN	50340KC
50340A	50340B	50340C	50340P	50340X	50340U	KC-50340

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: 24.95 mW U-NII-2A: 24.89 mW U-NII-3: 24.89 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-ANT0	Shrapnel Antenna
	SISO-ANT1	
Antenna Gain	SISO-ANT0	2.60 dBi
	SISO-ANT1	
Total directional gain	For power spectral density (PSD) measurements	Correlated: 5.61 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated: 2.60 dBi Formulas: Directional gain = G_{ANT}
	For power measurements	Correlated: 5.61 dBi Formulas: Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi Uncorrelated: 2.60 dBi Formulas: Directional gain = G_{ANT}
About the Product	The equipment is AC1300 USB Dual Band Wi-Fi Adapter, intended	

	for used with information technology equipment.
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Mode	Antenna		
	SISO-ANT0	SISO-ANT1	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	43% to 57%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+17.4°C to +24.2°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	MY46471071	2024.07.04	2025.07.03
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2024.07.04	2025.07.03
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	Agilent	N9038A	MY55330120	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-00867	2022.04.12	2025.04.11
Amplifier	COM-MV	ZT30-1000M	B2017119081	2024.11.28	2025.11.27
Anechoic Chamber	YiHeng	9m*6m*6m	142	2024.07.21	2027.07.20
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.09	2025.05.08
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8 m	112	2025.02.14	2028.01.13

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

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

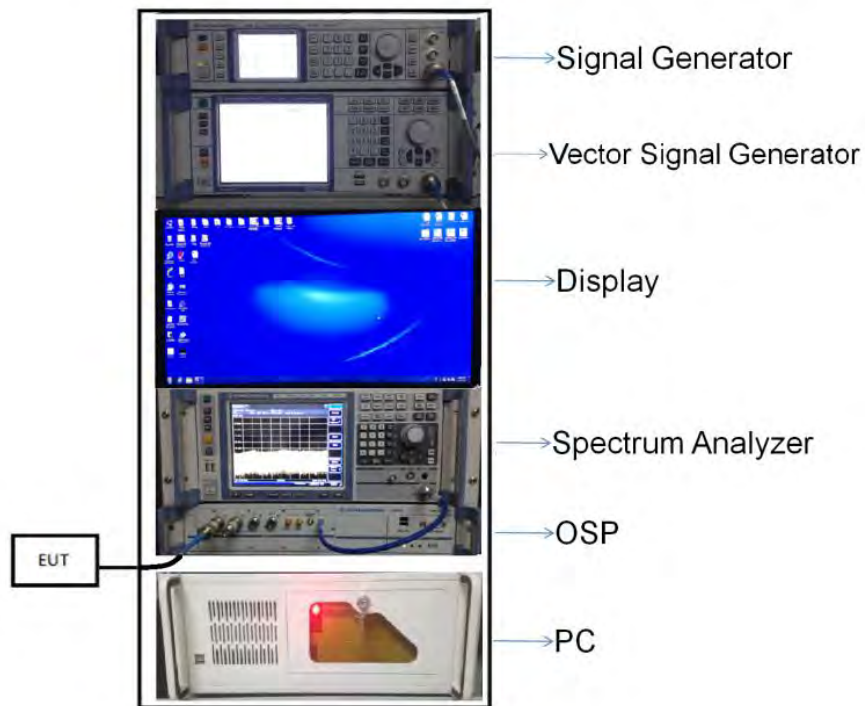
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

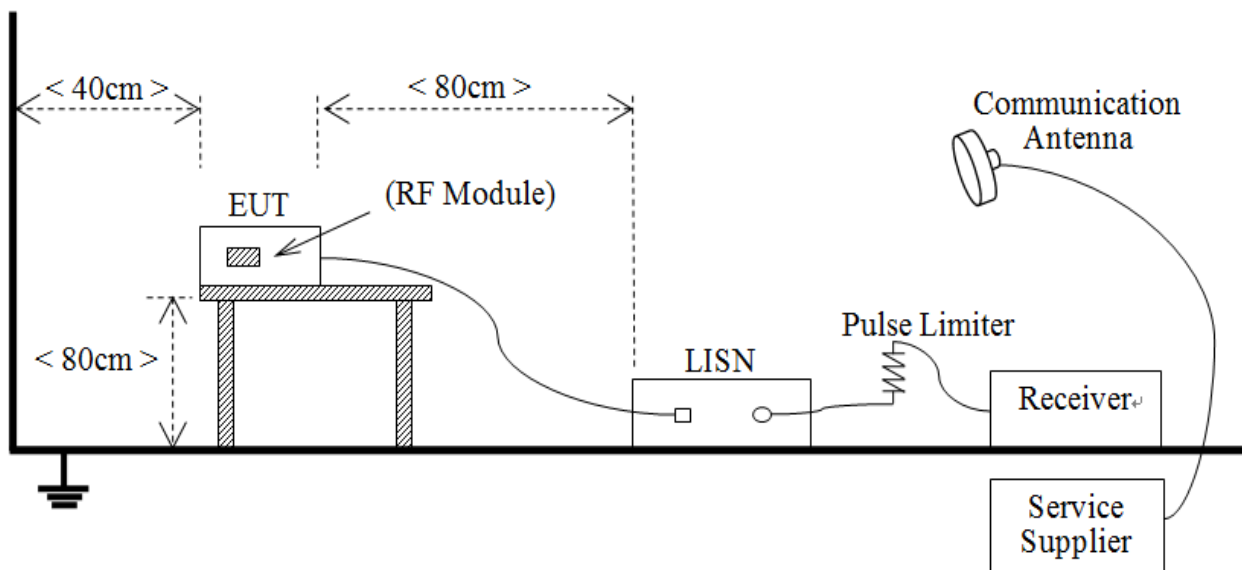
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



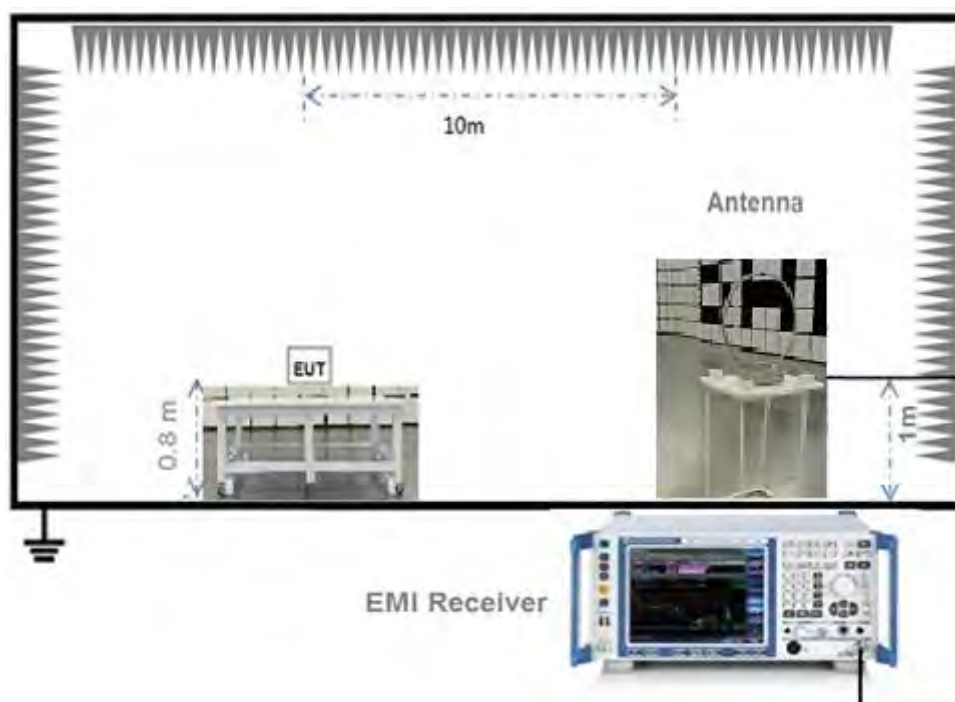
(Diagram 1)

4.5.2 For AC Power Supply Port Test



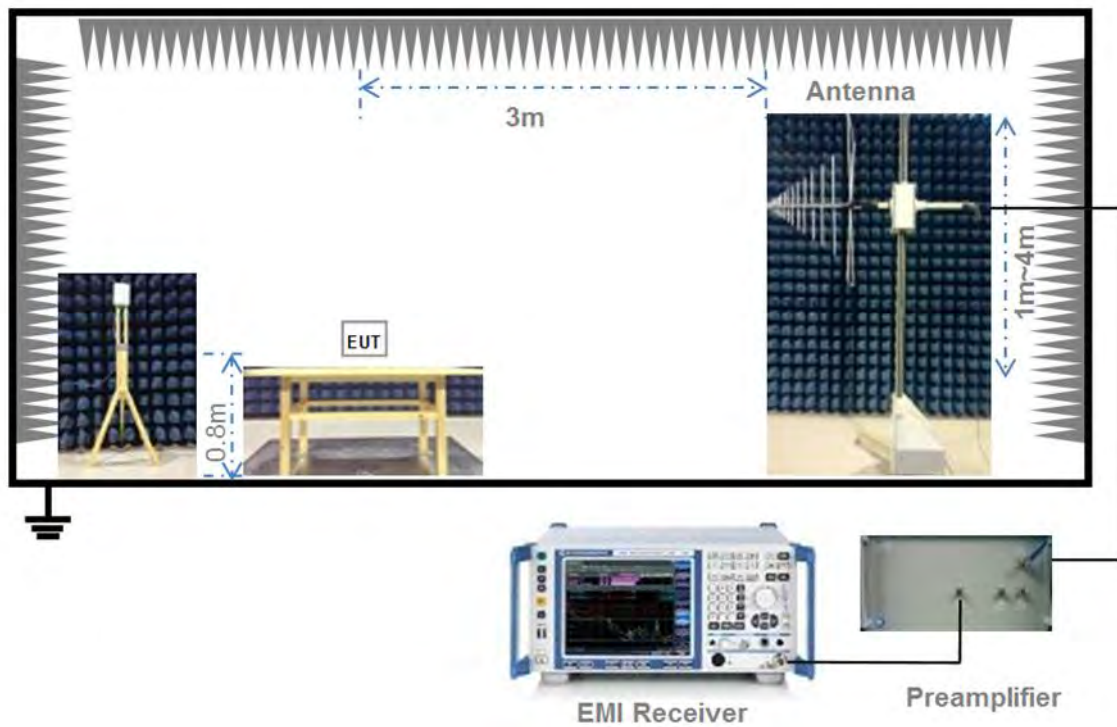
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



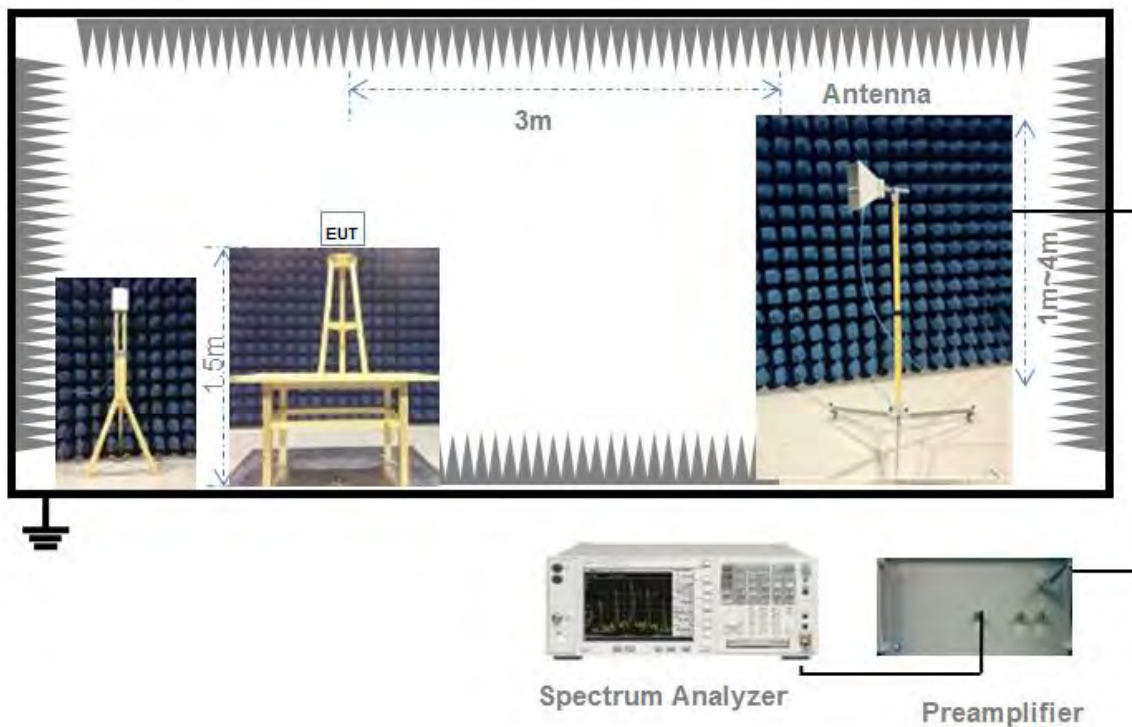
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

The section 4.5.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX 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	100	100	100.00%	0.00
11n (HT20)/11ac (VHT20)	100	100	100.00%	0.00
11n (HT40)/11ac (VHT40)	100	100	100.00%	0.00
11ac (VHT80)	100	100	100.00%	0.00

Test DataConducted PowerSISO-ANT0

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.82	24.10	250	Pass
11a	CH44	13.68	23.33	250	Pass
11a	CH48	13.75	23.71	250	Pass
11n (HT20)	CH36	13.76	23.77	250	Pass
11n (HT20)	CH44	13.63	23.07	250	Pass
11n (HT20)	CH48	13.66	23.23	250	Pass
11n (HT40)	CH38	12.88	19.41	250	Pass
11n (HT40)	CH46	12.66	18.45	250	Pass
11ac (VHT20)	CH36	13.94	24.77	250	Pass
11ac (VHT20)	CH44	13.93	24.72	250	Pass
11ac (VHT20)	CH48	13.58	22.80	250	Pass
11ac (VHT40)	CH38	12.91	19.54	250	Pass
11ac (VHT40)	CH46	12.65	18.41	250	Pass
11ac (VHT80)	CH42	11.77	15.03	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.69	23.39	247	Pass
11a	CH60	13.87	24.38	249	Pass
11a	CH64	13.94	24.77	248	Pass
11n (HT20)	CH52	13.69	23.39	250	Pass
11n (HT20)	CH60	13.73	23.60	250	Pass
11n (HT20)	CH64	13.65	23.17	250	Pass
11n (HT40)	CH54	12.96	19.77	250	Pass
11n (HT40)	CH62	12.79	19.01	250	Pass
11ac (VHT20)	CH52	13.78	23.88	250	Pass
11ac (VHT20)	CH60	13.84	24.21	250	Pass
11ac (VHT20)	CH64	13.87	24.38	250	Pass
11ac (VHT40)	CH54	12.82	19.14	250	Pass
11ac (VHT40)	CH62	12.64	18.37	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	13.87	24.38	1000	Pass
11a	CH157	13.77	23.82	1000	Pass
11a	CH165	13.93	24.72	1000	Pass
11n (HT20)	CH149	13.96	24.89	1000	Pass
11n (HT20)	CH157	13.85	24.27	1000	Pass
11n (HT20)	CH165	13.78	23.88	1000	Pass
11n (HT40)	CH151	12.84	19.23	1000	Pass
11n (HT40)	CH159	12.93	19.63	1000	Pass
11ac (VHT20)	CH149	13.95	24.83	1000	Pass
11ac (VHT20)	CH157	13.77	23.82	1000	Pass
11ac (VHT20)	CH165	13.92	24.66	1000	Pass
11ac (VHT40)	CH151	12.98	19.86	1000	Pass
11ac (VHT40)	CH159	12.92	19.59	1000	Pass
11ac (VHT80)	CH155	11.72	14.86	1000	Pass

SISO-ANT1

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.51	22.44	250	Pass
11a	CH44	13.94	24.77	250	Pass
11a	CH48	13.90	24.55	250	Pass
11n (HT20)	CH36	13.58	22.80	250	Pass
11n (HT20)	CH44	13.97	24.95	250	Pass
11n (HT20)	CH48	13.59	22.86	250	Pass
11n (HT40)	CH38	12.29	16.94	250	Pass
11n (HT40)	CH46	12.76	18.88	250	Pass
11ac (VHT20)	CH36	13.93	24.72	250	Pass
11ac (VHT20)	CH44	13.62	23.01	250	Pass
11ac (VHT20)	CH48	13.80	23.99	250	Pass
11ac (VHT40)	CH38	12.49	17.74	250	Pass
11ac (VHT40)	CH46	12.82	19.14	250	Pass
11ac (VHT80)	CH42	11.84	15.28	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.80	23.99	247	Pass
11a	CH60	13.63	23.07	249	Pass
11a	CH64	13.83	24.15	248	Pass
11n (HT20)	CH52	13.66	23.23	250	Pass
11n (HT20)	CH60	13.68	23.33	250	Pass
11n (HT20)	CH64	13.84	24.21	250	Pass
11n (HT40)	CH54	12.64	18.37	250	Pass
11n (HT40)	CH62	12.52	17.86	250	Pass
11ac (VHT20)	CH52	13.83	24.15	250	Pass
11ac (VHT20)	CH60	13.84	24.21	250	Pass
11ac (VHT20)	CH64	13.96	24.89	250	Pass
11ac (VHT40)	CH54	12.86	19.32	250	Pass
11ac (VHT40)	CH62	12.95	19.72	250	Pass
11ac (VHT80)	CH58	11.82	15.21	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.78	23.88	1000	Pass
11a	CH157	13.85	24.27	1000	Pass
11a	CH165	13.79	23.93	1000	Pass
11n (HT20)	CH149	13.81	24.04	1000	Pass
11n (HT20)	CH157	13.78	23.88	1000	Pass
11n (HT20)	CH165	13.48	22.28	1000	Pass
11n (HT40)	CH151	12.95	19.72	1000	Pass
11n (HT40)	CH159	12.90	19.50	1000	Pass
11ac (VHT20)	CH149	13.64	23.12	1000	Pass
11ac (VHT20)	CH157	13.94	24.77	1000	Pass
11ac (VHT20)	CH165	13.84	24.21	1000	Pass
11ac (VHT40)	CH151	12.83	19.19	1000	Pass
11ac (VHT40)	CH159	12.86	19.32	1000	Pass
11ac (VHT80)	CH155	11.74	14.93	1000	Pass

MIMO-ANT0

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.93	12.39	250	Pass
11a	CH44	10.77	11.94	250	Pass
11a	CH48	10.88	12.25	250	Pass
11n (HT20)	CH36	10.57	11.40	250	Pass
11n (HT20)	CH44	10.72	11.80	250	Pass
11n (HT20)	CH48	10.71	11.78	250	Pass
11n (HT40)	CH38	9.83	9.62	250	Pass
11n (HT40)	CH46	9.72	9.38	250	Pass
11ac (VHT20)	CH36	10.96	12.47	250	Pass
11ac (VHT20)	CH44	10.74	11.86	250	Pass
11ac (VHT20)	CH48	10.83	12.11	250	Pass
11ac (VHT40)	CH38	9.61	9.14	250	Pass
11ac (VHT40)	CH46	9.67	9.27	250	Pass
11ac (VHT80)	CH42	8.70	7.41	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	10.78	11.97	247	Pass
11a	CH60	10.80	12.02	249	Pass
11a	CH64	10.76	11.91	248	Pass
11n (HT20)	CH52	10.67	11.67	250	Pass
11n (HT20)	CH60	10.90	12.30	250	Pass
11n (HT20)	CH64	10.61	11.51	250	Pass
11n (HT40)	CH54	9.68	9.29	250	Pass
11n (HT40)	CH62	9.78	9.51	250	Pass
11ac (VHT20)	CH52	10.84	12.13	250	Pass
11ac (VHT20)	CH60	10.83	12.11	250	Pass
11ac (VHT20)	CH64	10.96	12.47	250	Pass
11ac (VHT40)	CH54	9.69	9.31	250	Pass
11ac (VHT40)	CH62	9.92	9.82	250	Pass
11ac (VHT80)	CH58	8.68	7.38	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	10.89	12.27	1000	Pass
11a	CH157	10.88	12.25	1000	Pass
11a	CH165	10.85	12.16	1000	Pass
11n (HT20)	CH149	10.61	11.51	1000	Pass
11n (HT20)	CH157	10.48	11.17	1000	Pass
11n (HT20)	CH165	10.92	12.36	1000	Pass
11n (HT40)	CH151	9.86	9.68	1000	Pass
11n (HT40)	CH159	9.81	9.57	1000	Pass
11ac (VHT20)	CH149	10.78	11.97	1000	Pass
11ac (VHT20)	CH157	10.89	12.27	1000	Pass
11ac (VHT20)	CH165	10.82	12.08	1000	Pass
11ac (VHT40)	CH151	9.92	9.82	1000	Pass
11ac (VHT40)	CH159	9.88	9.73	1000	Pass
11ac (VHT80)	CH155	8.84	7.66	1000	Pass

MIMO-ANT1

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	10.71	11.78	250	Pass
11a	CH44	10.87	12.22	250	Pass
11a	CH48	10.84	12.13	250	Pass
11n (HT20)	CH36	10.84	12.13	250	Pass
11n (HT20)	CH44	10.77	11.94	250	Pass
11n (HT20)	CH48	10.74	11.86	250	Pass
11n (HT40)	CH38	9.85	9.66	250	Pass
11n (HT40)	CH46	9.66	9.25	250	Pass
11ac (VHT20)	CH36	10.71	11.78	250	Pass
11ac (VHT20)	CH44	10.94	12.42	250	Pass
11ac (VHT20)	CH48	10.76	11.91	250	Pass
11ac (VHT40)	CH38	9.63	9.18	250	Pass
11ac (VHT40)	CH46	9.81	9.57	250	Pass
11ac (VHT80)	CH42	8.94	7.83	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	10.62	11.53	247	Pass
11a	CH60	10.77	11.94	249	Pass
11a	CH64	10.87	12.22	248	Pass
11n (HT20)	CH52	10.86	12.19	250	Pass
11n (HT20)	CH60	10.81	12.05	250	Pass
11n (HT20)	CH64	10.78	11.97	250	Pass
11n (HT40)	CH54	9.91	9.79	250	Pass
11n (HT40)	CH62	9.95	9.89	250	Pass
11ac (VHT20)	CH52	10.75	11.89	250	Pass
11ac (VHT20)	CH60	10.75	11.89	250	Pass
11ac (VHT20)	CH64	10.67	11.67	250	Pass
11ac (VHT40)	CH54	9.91	9.79	250	Pass
11ac (VHT40)	CH62	9.58	9.08	250	Pass
11ac (VHT80)	CH58	8.73	7.46	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	10.82	12.08	1000	Pass
11a	CH157	10.91	12.33	1000	Pass
11a	CH165	10.86	12.19	1000	Pass
11n (HT20)	CH149	10.85	12.16	1000	Pass
11n (HT20)	CH157	10.80	12.02	1000	Pass
11n (HT20)	CH165	10.86	12.19	1000	Pass
11n (HT40)	CH151	9.84	9.64	1000	Pass
11n (HT40)	CH159	9.79	9.53	1000	Pass
11ac (VHT20)	CH149	10.82	12.08	1000	Pass
11ac (VHT20)	CH157	10.68	11.69	1000	Pass
11ac (VHT20)	CH165	10.54	11.32	1000	Pass
11ac (VHT40)	CH151	9.85	9.66	1000	Pass
11ac (VHT40)	CH159	9.66	9.25	1000	Pass
11ac (VHT80)	CH155	8.85	7.67	1000	Pass

MIMO

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	13.83	24.16	250	Pass
11a	CH44	13.83	24.16	250	Pass
11a	CH48	13.87	24.38	250	Pass
11n (HT20)	CH36	13.72	23.54	250	Pass
11n (HT20)	CH44	13.76	23.74	250	Pass
11n (HT20)	CH48	13.74	23.63	250	Pass
11n (HT40)	CH38	12.85	19.28	250	Pass
11n (HT40)	CH46	12.70	18.62	250	Pass
11ac (VHT20)	CH36	13.85	24.25	250	Pass
11ac (VHT20)	CH44	13.85	24.27	250	Pass
11ac (VHT20)	CH48	13.81	24.02	250	Pass
11ac (VHT40)	CH38	12.63	18.32	250	Pass
11ac (VHT40)	CH46	12.75	18.84	250	Pass
11ac (VHT80)	CH42	11.83	15.25	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	13.71	23.50	247	Pass
11a	CH60	13.80	23.96	249	Pass
11a	CH64	13.83	24.13	248	Pass
11n (HT20)	CH52	13.78	23.86	250	Pass
11n (HT20)	CH60	13.87	24.35	250	Pass
11n (HT20)	CH64	13.71	23.48	250	Pass
11n (HT40)	CH54	12.81	19.08	250	Pass
11n (HT40)	CH62	12.88	19.39	250	Pass
11ac (VHT20)	CH52	13.81	24.02	250	Pass
11ac (VHT20)	CH60	13.80	23.99	250	Pass
11ac (VHT20)	CH64	13.83	24.14	250	Pass
11ac (VHT40)	CH54	12.81	19.11	250	Pass
11ac (VHT40)	CH62	12.76	18.90	250	Pass
11ac (VHT80)	CH58	11.72	14.84	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	13.87	24.35	1000	Pass
11a	CH157	13.91	24.58	1000	Pass
11a	CH165	13.87	24.35	1000	Pass
11n (HT20)	CH149	13.74	23.67	1000	Pass
11n (HT20)	CH157	13.65	23.19	1000	Pass
11n (HT20)	CH165	13.90	24.55	1000	Pass
11n (HT40)	CH151	12.86	19.32	1000	Pass
11n (HT40)	CH159	12.81	19.10	1000	Pass
11ac (VHT20)	CH149	13.81	24.05	1000	Pass
11ac (VHT20)	CH157	13.80	23.97	1000	Pass
11ac (VHT20)	CH165	13.69	23.40	1000	Pass
11ac (VHT40)	CH151	12.90	19.48	1000	Pass
11ac (VHT40)	CH159	12.78	18.97	1000	Pass
11ac (VHT80)	CH155	11.86	15.33	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-SZ2530091-602 Data Part 1.pdf”.

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

SISO-ANT0

Test Data (Emission Bandwidth)

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	19.72	16.48
11a	CH44	19.71	16.47
11a	CH48	19.77	16.47
11n (HT20)	CH36	20.60	17.54
11n (HT20)	CH44	20.50	17.55
11n (HT20)	CH48	20.56	17.55
11n (HT40)	CH38	42.56	36.26
11n (HT40)	CH46	42.22	36.24
11ac (VHT20)	CH36	20.52	17.54
11ac (VHT20)	CH44	20.59	17.55
11ac (HVT20)	CH48	20.49	17.54
11ac (VHT40)	CH38	42.37	36.25
11ac (VHT40)	CH46	42.26	36.24
11ac (VHT80)	CH42	81.97	75.39

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	19.64	16.43
11a	CH60	19.76	16.48
11a	CH64	19.70	16.48
11n (HT20)	CH52	20.47	17.55
11n (HT20)	CH60	20.63	17.56
11n (HT20)	CH64	20.51	17.54
11n (HT40)	CH54	42.38	36.26
11n (HT40)	CH62	42.45	36.25
11ac (VHT20)	CH52	20.48	17.54
11ac (VHT20)	CH60	20.63	17.55
11ac (VHT20)	CH64	20.51	17.54
11ac (VHT40)	CH54	42.37	36.24
11ac (VHT40)	CH62	42.37	36.25
11ac (VHT80)	CH58	82.16	75.43

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	19.67	16.49
11a	CH157	19.68	16.46
11a	CH165	19.46	16.41
11n (HT20)	CH149	20.61	17.54
11n (HT20)	CH157	20.55	17.55
11n (HT20)	CH165	20.60	17.55
11n (HT40)	CH151	42.33	36.25
11n (HT40)	CH159	42.44	36.24
11ac (VHT20)	CH149	20.53	17.55
11ac (VHT20)	CH157	20.53	17.54
11ac (VHT20)	CH165	20.53	17.56
11ac (VHT40)	CH151	42.23	36.23
11ac (VHT40)	CH159	42.62	36.23
11ac (VHT80)	CH155	82.05	75.42

Note1: Test plots please refer to the document "Annex No.: BL-SZ2530091-602 Data Part 2.pdf".

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

SISO-ANT0

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	17.80	500.00	Pass
11n (HT20)	CH157	17.80	500.00	Pass
11n (HT20)	CH165	17.80	500.00	Pass
11n (HT40)	CH151	36.60	500.00	Pass
11n (HT40)	CH159	36.60	500.00	Pass
11ac (VHT20)	CH149	17.80	500.00	Pass
11ac (VHT20)	CH157	17.80	500.00	Pass
11ac (VHT20)	CH165	17.80	500.00	Pass
11ac (VHT40)	CH151	36.60	500.00	Pass
11ac (VHT40)	CH159	36.60	500.00	Pass
11ac (VHT80)	CH155	75.30	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-SZ2530091-602 Data Part 3.pdf”.

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

SISO-ANT0

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	1.93	11.00	Pass
11a	CH44	2.26	11.00	Pass
11a	CH48	2.14	11.00	Pass
11n (HT20)	CH36	1.68	11.00	Pass
11n (HT20)	CH44	1.76	11.00	Pass
11n (HT20)	CH48	1.82	11.00	Pass
11n (HT40)	CH38	-2.03	11.00	Pass
11n (HT40)	CH46	-1.95	11.00	Pass
11ac (VHT20)	CH36	1.58	11.00	Pass
11ac (VHT20)	CH44	1.66	11.00	Pass
11ac (VHT20)	CH48	1.75	11.00	Pass
11ac (VHT40)	CH38	-2.12	11.00	Pass
11ac (VHT40)	CH46	-2.05	11.00	Pass
11ac (VHT80)	CH42	-4.84	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	1.88	11.00	Pass
11a	CH60	2.03	11.00	Pass
11a	CH64	2.23	11.00	Pass
11n (HT20)	CH52	1.70	11.00	Pass
11n (HT20)	CH60	2.03	11.00	Pass
11n (HT20)	CH64	2.36	11.00	Pass
11n (HT40)	CH54	-2.01	11.00	Pass
11n (HT40)	CH62	-2.11	11.00	Pass
11ac (VHT20)	CH52	1.73	11.00	Pass
11ac (VHT20)	CH60	2.04	11.00	Pass
11ac (VHT20)	CH64	2.14	11.00	Pass
11ac (VHT40)	CH54	-2.15	11.00	Pass
11ac (VHT40)	CH62	-1.88	11.00	Pass
11ac (VHT80)	CH58	-4.71	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-0.54	30.00	Pass
11a	CH157	-0.20	30.00	Pass
11a	CH165	-0.30	30.00	Pass
11n (HT20)	CH149	-1.04	30.00	Pass
11n (HT20)	CH157	-0.48	30.00	Pass
11n (HT20)	CH165	-0.54	30.00	Pass
11n (HT40)	CH151	-4.77	30.00	Pass
11n (HT40)	CH159	-4.47	30.00	Pass
11ac (VHT20)	CH149	-1.02	30.00	Pass
11ac (VHT20)	CH157	-0.83	30.00	Pass
11ac (VHT20)	CH165	-0.46	30.00	Pass
11ac (VHT40)	CH151	-4.13	30.00	Pass
11ac (VHT40)	CH159	-3.41	30.00	Pass
11ac (VHT80)	CH155	-7.18	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.

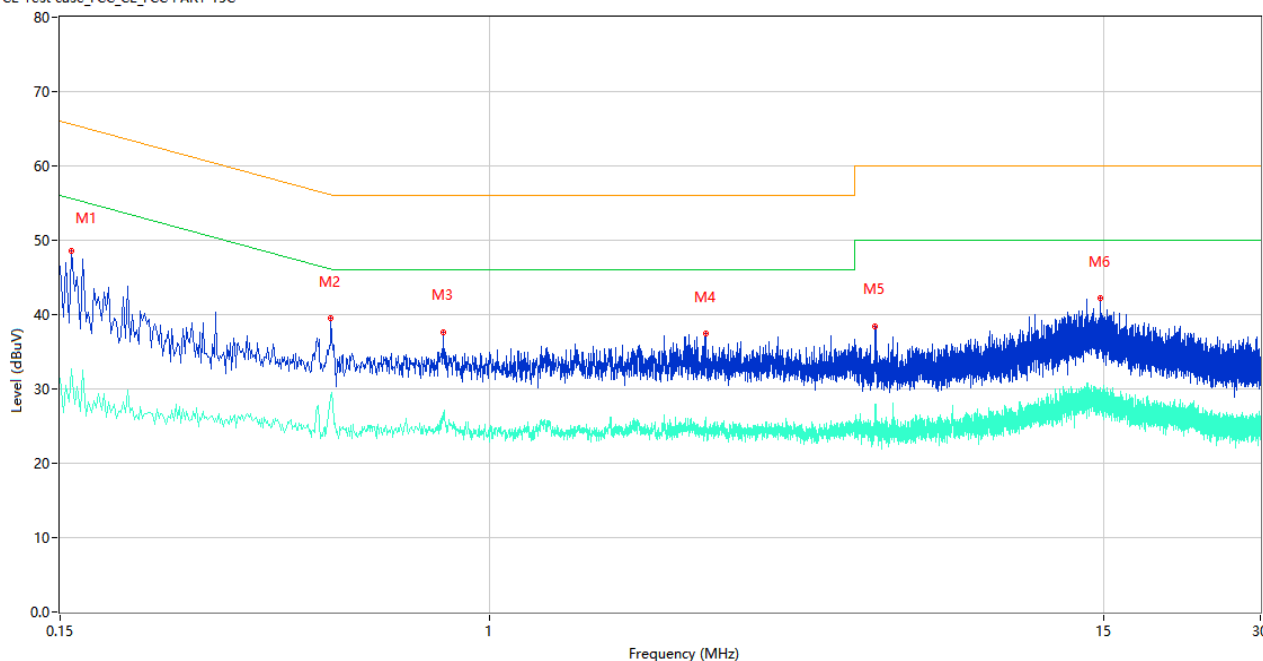
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

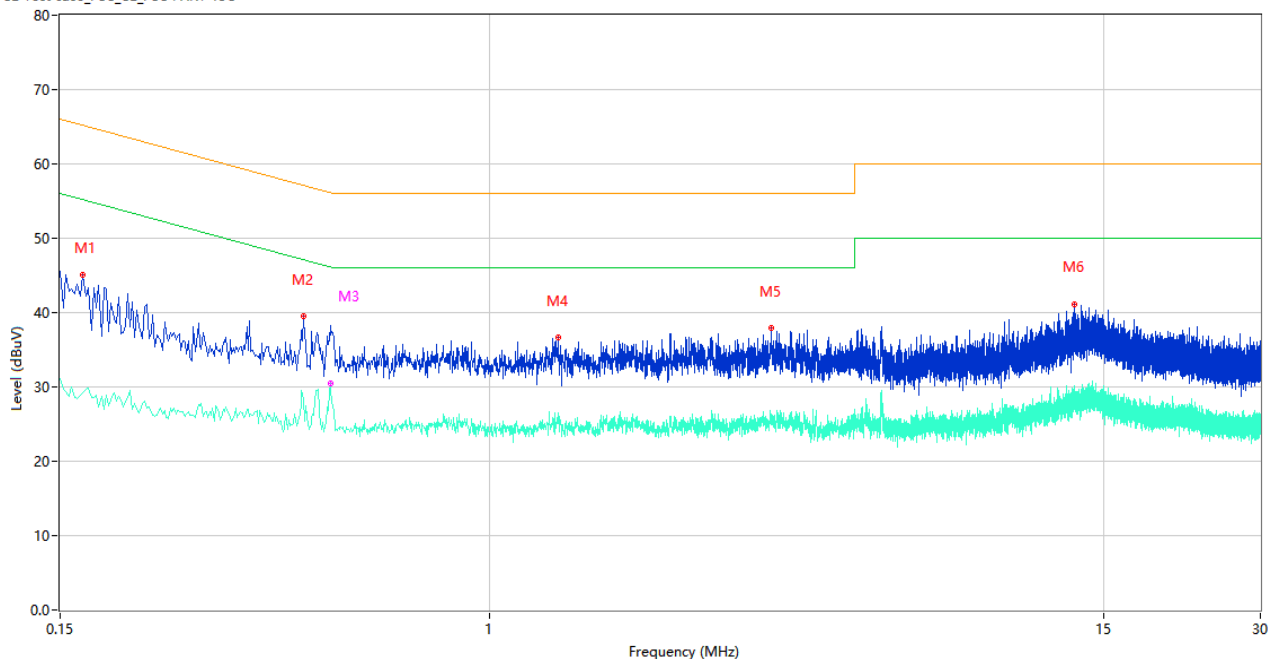
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	48.50	9.78	65.57	17.07	Peak	L	Pass
1**	0.158	32.68	9.78	55.57	22.89	AV	L	Pass
2	0.496	39.45	9.98	56.07	16.62	Peak	L	Pass
2**	0.496	28.93	9.98	46.07	17.14	AV	L	Pass
3	0.814	37.68	10.55	56.00	18.32	Peak	L	Pass
3**	0.814	26.12	10.55	46.00	19.88	AV	L	Pass
4	2.598	37.44	9.69	56.00	18.56	Peak	L	Pass
4**	2.598	25.56	9.69	46.00	20.44	AV	L	Pass
5	5.470	38.49	10.23	60.00	21.51	Peak	L	Pass
5**	5.470	26.80	10.23	50.00	23.20	AV	L	Pass
6	14.816	42.18	10.53	60.00	17.82	Peak	L	Pass
6**	14.816	27.78	10.53	50.00	22.22	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	0.166	45.06	9.78	65.16	20.10	Peak	N	Pass
1**	0.166	29.16	9.78	55.16	26.00	AV	N	Pass
2	0.440	39.47	10.13	57.06	17.59	Peak	N	Pass
2**	0.440	28.44	10.13	47.06	18.62	AV	N	Pass
3	0.494	38.18	9.99	56.10	17.92	Peak	N	Pass
3**	0.494	30.42	9.99	46.10	15.68	AV	N	Pass
4	1.352	36.61	10.00	56.00	19.39	Peak	N	Pass
4**	1.352	26.56	10.00	46.00	19.44	AV	N	Pass
5	3.464	37.93	10.22	56.00	18.07	Peak	N	Pass
5**	3.464	26.28	10.22	46.00	19.72	AV	N	Pass
6	13.196	41.13	10.78	60.00	18.87	Peak	N	Pass
6**	13.196	29.37	10.78	50.00	20.63	AV	N	Pass

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

5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

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

5.5.2 Test Setup

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

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

f) Perform radiated spurious emission test.

Quasi-Peak measurement procedure

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

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

Peak power measurement procedure

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

a) RBW = as specified in Table 1.

b) VBW $\geq 3 \times$ RBW.

c) Detector = Peak.

d) Sweep time = auto.

e) Trace mode = max hold.

f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be longer for low duty cycle applications).

Table 1—RBW as a function of frequency

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

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

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

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

- a) The EUT shall be configured to operate at the maximum achievable duty cycle.
- b) Measure the duty cycle, x , of the transmitter output signal as described in section 6.0.
- c) RBW = 1 MHz (unless otherwise specified).
- d) VBW $\geq 3 \times$ RBW.
- e) Detector = RMS, if $\text{span}/(\# \text{ of points in sweep}) \leq (\text{RBW}/2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
- f) Averaging type = power (i.e., RMS).
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode in order to use linear voltage averaging. Log or dB averaging shall not be used.
- g) Sweep time = auto.
- h) Perform a trace average of at least 100 traces.
- i) A correction factor shall be added to the measurement results prior to comparing to the emission limit in order to compute the emission level that would have been measured had the test been performed at 100 percent duty cycle. The correction factor is computed as follows:
 - 1) If power averaging (RMS) mode was used in step f), then the applicable correction factor is $10 \log(1/x)$, where x is the duty cycle.
 - 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $20 \log(1/x)$, where x is the duty cycle.
 - 3) If a specific emission is demonstrated to be continuous (≥ 98 percent duty cycle) rather than turning on and off with the transmit cycle, then no duty cycle correction is required for that emission.

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

Determining the applicable transmit antenna gain

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

Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that

is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

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.

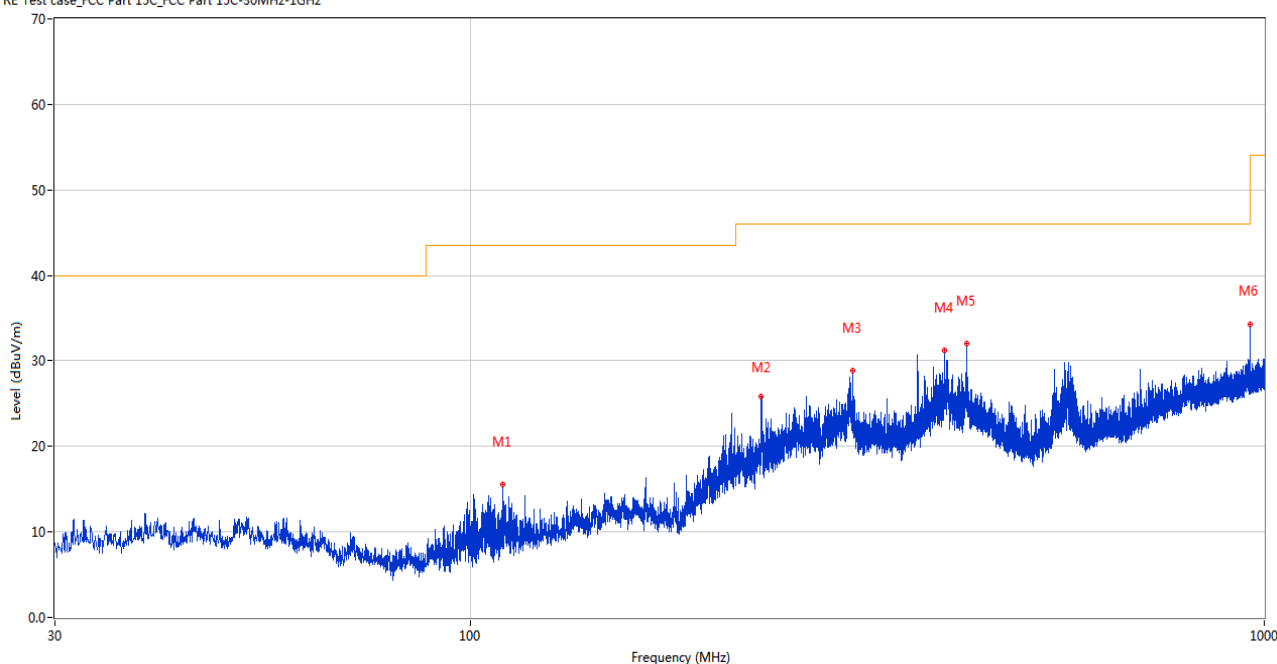
Note 4: The EUT was tested in Link mode and the charging.

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

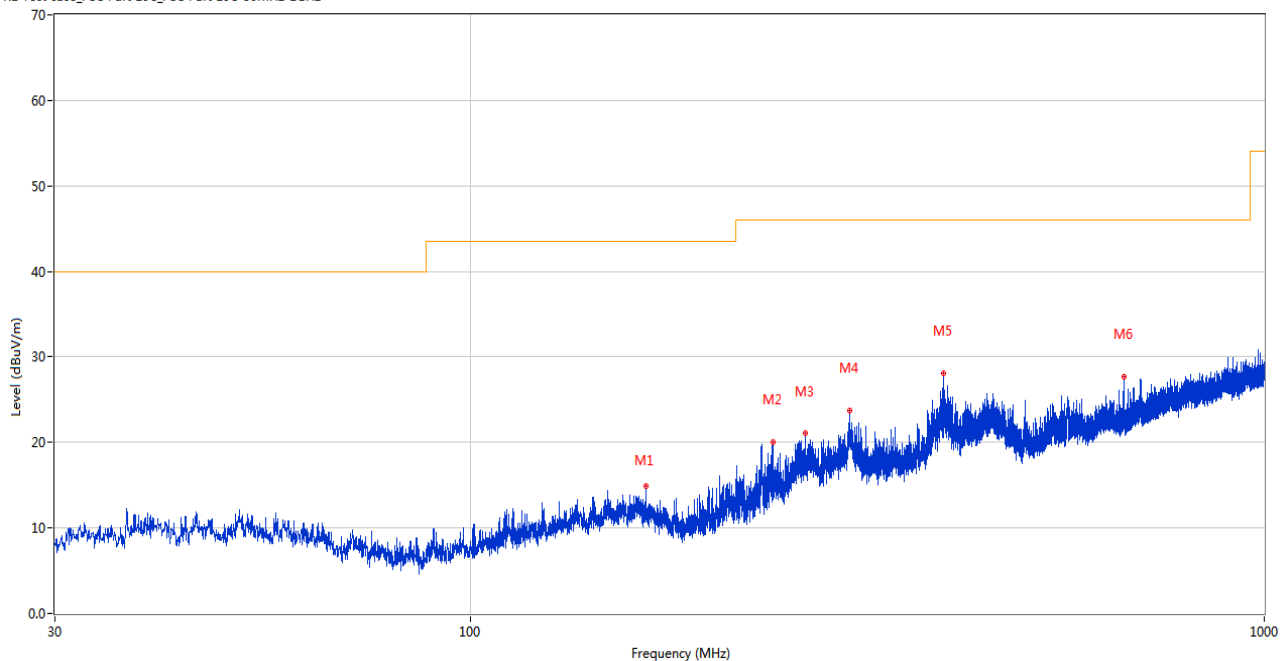
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	110.074	15.57	-28.85	43.5	27.93	Peak	148.00	200	Horizontal	Pass
2	232.584	25.88	-27.88	46.0	20.12	Peak	0.00	200	Horizontal	Pass
3	303.152	28.86	-24.62	46.0	17.14	Peak	183.00	100	Horizontal	Pass
4	395.690	31.22	-21.30	46.0	14.78	Peak	126.00	100	Horizontal	Pass
5	421.444	32.07	-20.93	46.0	13.93	Peak	360.00	100	Horizontal	Pass
6	959.987	34.26	-10.29	46.0	11.74	Peak	360.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	166.624	14.94	-25.32	43.5	28.56	Peak	232.00	100	Vertical	Pass
2	240.926	20.03	-27.15	46.0	25.97	Peak	253.00	200	Vertical	Pass
3	264.158	21.04	-26.30	46.0	24.96	Peak	262.00	200	Vertical	Pass
4	300.873	23.75	-24.63	46.0	22.25	Peak	262.00	200	Vertical	Pass
5	394.866	28.13	-21.34	46.0	17.87	Peak	125.00	100	Vertical	Pass
6	665.495	27.66	-15.50	46.0	18.34	Peak	208.00	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-ANT0

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	1573.800	39.18	74.0	34.82	Peak	92.00	400	Horizontal	Pass
1**	1573.800	29.60	54.0	24.40	AV	92.00	400	Horizontal	Pass
2	4070.000	49.81	74.0	24.19	Peak	204.00	300	Horizontal	Pass
2**	4070.000	40.58	54.0	13.42	AV	204.00	300	Horizontal	Pass
3	5185.600	108.31	--	--	Peak	360.00	100	Horizontal	N/A
3**	5185.600	100.11	--	--	AV	360.00	100	Horizontal	N/A
4	7336.950	50.02	74.0	23.98	Peak	293.00	100	Horizontal	Pass
4**	7336.950	41.57	54.0	12.43	AV	293.00	100	Horizontal	Pass
5	11769.050	52.32	74.0	21.68	Peak	360.00	200	Horizontal	Pass
5**	11769.050	42.23	54.0	11.77	AV	360.00	200	Horizontal	Pass
6	16074.825	55.13	74.0	18.87	Peak	316.00	400	Horizontal	Pass
6**	16074.825	44.93	54.0	9.07	AV	316.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.600	40.51	74.0	33.49	Peak	262.00	400	Vertical	Pass
1**	1497.600	29.21	54.0	24.79	AV	262.00	400	Vertical	Pass
2	3983.200	49.93	74.0	24.07	Peak	87.00	150	Vertical	Pass
2**	3983.200	40.15	54.0	13.85	AV	87.00	150	Vertical	Pass
3	5183.600	97.48	--	--	Peak	168.00	200	Vertical	N/A
3**	5183.600	89.48	--	--	AV	168.00	200	Vertical	N/A
4	7438.150	49.86	74.0	24.14	Peak	338.00	300	Vertical	Pass
4**	7438.150	40.92	54.0	13.08	AV	338.00	300	Vertical	Pass
5	11809.299	51.91	74.0	22.09	Peak	15.00	100	Vertical	Pass
5**	11809.299	41.84	54.0	12.16	AV	15.00	100	Vertical	Pass
6	16135.463	54.27	74.0	19.73	Peak	224.00	300	Vertical	Pass
6**	16135.463	45.13	54.0	8.87	AV	224.00	300	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	1503.200	39.16	74.0	34.84	Peak	0.00	200	Horizontal	Pass
1**	1503.200	29.61	54.0	24.39	AV	0.00	200	Horizontal	Pass
2	4162.400	50.43	74.0	23.57	Peak	155.00	400	Horizontal	Pass
2**	4162.400	40.92	54.0	13.08	AV	155.00	400	Horizontal	Pass
3	5215.200	103.86	--	--	Peak	360.00	200	Horizontal	N/A
3**	5215.200	96.64	--	--	AV	360.00	200	Horizontal	N/A
4	7449.650	50.90	74.0	23.10	Peak	68.00	200	Horizontal	Pass
4**	7449.650	41.54	54.0	12.46	AV	68.00	200	Horizontal	Pass
5	12604.237	51.99	74.0	22.01	Peak	87.00	150	Horizontal	Pass
5**	12604.237	43.07	54.0	10.93	AV	87.00	150	Horizontal	Pass
6	15818.100	54.63	74.0	19.37	Peak	360.00	300	Horizontal	Pass
6**	15818.100	45.78	54.0	8.22	AV	360.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.200	41.52	74.0	32.48	Peak	268.00	400	Vertical	Pass
1**	1496.200	29.77	54.0	24.23	AV	268.00	400	Vertical	Pass
2	4128.800	50.25	74.0	23.75	Peak	137.00	300	Vertical	Pass
2**	4128.800	40.70	54.0	13.30	AV	137.00	300	Vertical	Pass
3	5214.000	93.71	--	--	Peak	161.00	100	Vertical	N/A
3**	5214.000	87.00	--	--	AV	161.00	100	Vertical	N/A
4	7378.350	50.17	74.0	23.83	Peak	65.00	400	Vertical	Pass
4**	7378.350	42.35	54.0	11.65	AV	65.00	400	Vertical	Pass
5	11931.201	51.68	74.0	22.32	Peak	219.00	200	Vertical	Pass
5**	11931.201	42.95	54.0	11.05	AV	219.00	200	Vertical	Pass
6	15840.412	55.24	74.0	18.76	Peak	282.00	400	Vertical	Pass
6**	15840.412	46.15	54.0	7.85	AV	282.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1573.700	40.24	74.0	33.76	Peak	110.00	400	Horizontal	Pass
1**	1573.700	29.56	54.0	24.44	AV	110.00	400	Horizontal	Pass
2	4361.000	50.72	74.0	23.28	Peak	360.00	200	Horizontal	Pass
2**	4361.000	40.29	54.0	13.71	AV	360.00	200	Horizontal	Pass
3	5245.400	103.37	--	--	Peak	360.00	100	Horizontal	N/A
3**	5245.400	96.26	--	--	AV	360.00	100	Horizontal	N/A
4	7345.000	50.81	74.0	23.19	Peak	225.00	100	Horizontal	Pass
4**	7345.000	40.72	54.0	13.28	AV	225.00	100	Horizontal	Pass
5	11333.488	52.25	74.0	21.75	Peak	312.00	100	Horizontal	Pass
5**	11333.488	42.54	54.0	11.46	AV	312.00	100	Horizontal	Pass
6	15454.537	54.84	74.0	19.16	Peak	5.00	100	Horizontal	Pass
6**	15454.537	44.97	54.0	9.03	AV	5.00	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	1497.700	40.20	74.0	33.80	Peak	237.00	300	Vertical	Pass
1**	1497.700	31.18	54.0	22.82	AV	237.00	300	Vertical	Pass
2	3732.200	50.21	74.0	23.79	Peak	3.00	300	Vertical	Pass
2**	3732.200	40.37	54.0	13.63	AV	3.00	300	Vertical	Pass
3	5245.000	94.49	--	--	Peak	163.00	100	Vertical	N/A
3**	5245.000	86.88	--	--	AV	163.00	100	Vertical	N/A
4	7356.500	50.95	74.0	23.05	Peak	243.00	100	Vertical	Pass
4**	7356.500	40.47	54.0	13.53	AV	243.00	100	Vertical	Pass
5	10922.075	51.77	74.0	22.23	Peak	298.00	150	Vertical	Pass
5**	10922.075	43.19	54.0	10.81	AV	298.00	150	Vertical	Pass
6	16139.924	54.81	74.0	19.19	Peak	262.00	300	Vertical	Pass
6**	16139.924	44.88	54.0	9.12	AV	262.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1550.900	39.36	74.0	34.64	Peak	35.00	100	Horizontal	Pass
1**	1550.900	29.02	54.0	24.98	AV	35.00	100	Horizontal	Pass
2	4391.000	50.11	74.0	23.89	Peak	79.00	200	Horizontal	Pass
2**	4391.000	41.67	54.0	12.33	AV	79.00	200	Horizontal	Pass
3	5185.200	102.33	--	--	Peak	9.00	100	Horizontal	N/A
3**	5185.200	95.23	--	--	AV	9.00	100	Horizontal	N/A
4	7451.375	50.07	74.0	23.93	Peak	120.00	100	Horizontal	Pass
4**	7451.375	41.04	54.0	12.96	AV	120.00	100	Horizontal	Pass
5	11899.575	52.86	74.0	21.14	Peak	172.00	200	Horizontal	Pass
5**	11899.575	42.26	54.0	11.74	AV	172.00	200	Horizontal	Pass
6	15823.612	54.78	74.0	19.22	Peak	96.00	200	Horizontal	Pass
6**	15823.612	45.40	54.0	8.60	AV	96.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1493.000	44.28	74.0	29.72	Peak	244.00	100	Vertical	Pass
1**	1493.000	29.21	54.0	24.79	AV	244.00	100	Vertical	Pass
2	4111.400	50.21	74.0	23.79	Peak	282.00	200	Vertical	Pass
2**	4111.400	40.64	54.0	13.36	AV	282.00	200	Vertical	Pass
3	5185.400	93.93	--	--	Peak	180.00	150	Vertical	N/A
3**	5185.400	86.60	--	--	AV	180.00	150	Vertical	N/A
4	7441.312	50.09	74.0	23.91	Peak	88.00	100	Vertical	Pass
4**	7441.312	40.84	54.0	13.16	AV	88.00	100	Vertical	Pass
5	11321.413	52.18	74.0	21.82	Peak	224.00	100	Vertical	Pass
5**	11321.413	42.12	54.0	11.88	AV	224.00	100	Vertical	Pass
6	15781.875	54.96	74.0	19.04	Peak	276.00	400	Vertical	Pass
6**	15781.875	44.42	54.0	9.58	AV	276.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1485.900	39.39	74.0	34.61	Peak	178.00	400	Horizontal	Pass
1**	1485.900	29.51	54.0	24.49	AV	178.00	400	Horizontal	Pass
2	4386.400	50.69	74.0	23.31	Peak	352.00	200	Horizontal	Pass
2**	4386.400	41.16	54.0	12.84	AV	352.00	200	Horizontal	Pass
3	5214.600	103.59	--	--	Peak	0.00	100	Horizontal	N/A
3**	5214.600	95.96	--	--	AV	0.00	100	Horizontal	N/A
4	7452.812	50.02	74.0	23.98	Peak	39.00	300	Horizontal	Pass
4**	7452.812	40.89	54.0	13.11	AV	39.00	300	Horizontal	Pass
5	10925.525	52.23	74.0	21.77	Peak	278.00	100	Horizontal	Pass
5**	10925.525	43.04	54.0	10.96	AV	278.00	100	Horizontal	Pass
6	15973.238	54.50	74.0	19.50	Peak	216.00	400	Horizontal	Pass
6**	15973.238	44.26	54.0	9.74	AV	216.00	400	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	1498.300	40.76	74.0	33.24	Peak	250.00	300	Vertical	Pass
1**	1498.300	29.38	54.0	24.62	AV	250.00	300	Vertical	Pass
2	4381.800	50.18	74.0	23.82	Peak	31.00	300	Vertical	Pass
2**	4381.800	40.62	54.0	13.38	AV	31.00	300	Vertical	Pass
3	5214.000	94.08	--	--	Peak	180.00	200	Vertical	N/A
3**	5214.000	86.52	--	--	AV	180.00	200	Vertical	N/A
4	7377.487	50.40	74.0	23.60	Peak	70.00	400	Vertical	Pass
4**	7377.487	39.78	54.0	14.22	AV	70.00	400	Vertical	Pass
5	11213.600	52.63	74.0	21.37	Peak	122.00	150	Vertical	Pass
5**	11213.600	41.87	54.0	12.13	AV	122.00	150	Vertical	Pass
6	16095.563	54.75	74.0	19.25	Peak	156.00	300	Vertical	Pass
6**	16095.563	45.07	54.0	8.93	AV	156.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1572.200	38.79	74.0	35.21	Peak	197.00	100	Horizontal	Pass
1**	1572.200	29.41	54.0	24.59	AV	197.00	100	Horizontal	Pass
2	4185.600	50.95	74.0	23.05	Peak	0.00	200	Horizontal	Pass
2**	4185.600	40.39	54.0	13.61	AV	0.00	200	Horizontal	Pass
3	5244.800	103.52	--	--	Peak	0.00	150	Horizontal	N/A
3**	5244.800	96.04	--	--	AV	0.00	150	Horizontal	N/A
4	7448.500	50.66	74.0	23.34	Peak	31.00	100	Horizontal	Pass
4**	7448.500	42.48	54.0	11.52	AV	31.00	100	Horizontal	Pass
5	10923.513	52.45	74.0	21.55	Peak	189.00	200	Horizontal	Pass
5**	10923.513	42.92	54.0	11.08	AV	189.00	200	Horizontal	Pass
6	15470.026	55.05	74.0	18.95	Peak	358.00	300	Horizontal	Pass
6**	15470.026	44.72	54.0	9.28	AV	358.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.200	42.37	74.0	31.63	Peak	248.00	300	Vertical	Pass
1**	1495.200	30.42	54.0	23.58	AV	248.00	300	Vertical	Pass
2	4151.200	50.27	74.0	23.73	Peak	351.00	200	Vertical	Pass
2**	4151.200	41.29	54.0	12.71	AV	351.00	200	Vertical	Pass
3	5242.400	94.86	--	--	Peak	169.00	100	Vertical	N/A
3**	5242.400	87.49	--	--	AV	169.00	100	Vertical	N/A
4	7340.112	50.17	74.0	23.83	Peak	19.00	400	Vertical	Pass
4**	7340.112	40.92	54.0	13.08	AV	19.00	400	Vertical	Pass
5	10920.063	51.89	74.0	22.11	Peak	72.00	200	Vertical	Pass
5**	10920.063	43.01	54.0	10.99	AV	72.00	200	Vertical	Pass
6	15527.250	55.08	74.0	18.92	Peak	17.00	400	Vertical	Pass
6**	15527.250	45.92	54.0	8.08	AV	17.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1484.400	38.89	74.0	35.11	Peak	105.00	100	Horizontal	Pass
1**	1484.400	29.82	54.0	24.18	AV	105.00	100	Horizontal	Pass
2	4377.600	50.68	74.0	23.32	Peak	231.00	300	Horizontal	Pass
2**	4377.600	41.05	54.0	12.95	AV	231.00	300	Horizontal	Pass
3	5176.200	101.21	--	--	Peak	314.00	200	Horizontal	N/A
3**	5176.200	93.76	--	--	AV	314.00	200	Horizontal	N/A
4	7434.988	49.77	74.0	24.23	Peak	119.00	300	Horizontal	Pass
4**	7434.988	41.33	54.0	12.67	AV	119.00	300	Horizontal	Pass
5	11340.963	51.84	74.0	22.16	Peak	242.00	200	Horizontal	Pass
5**	11340.963	43.21	54.0	10.79	AV	242.00	200	Horizontal	Pass
6	16107.638	54.79	74.0	19.21	Peak	202.00	300	Horizontal	Pass
6**	16107.638	45.10	54.0	8.90	AV	202.00	300	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	1498.800	41.63	74.0	32.37	Peak	256.00	200	Vertical	Pass
1**	1498.800	29.32	54.0	24.68	AV	256.00	200	Vertical	Pass
2	3992.400	50.95	74.0	23.05	Peak	239.00	400	Vertical	Pass
2**	3992.400	41.27	54.0	12.73	AV	239.00	400	Vertical	Pass
3	5193.400	94.60	--	--	Peak	175.00	100	Vertical	N/A
3**	5193.400	87.38	--	--	AV	175.00	100	Vertical	N/A
4	7542.513	50.00	74.0	24.00	Peak	71.00	100	Vertical	Pass
4**	7542.513	40.34	54.0	13.66	AV	71.00	100	Vertical	Pass
5	11824.538	52.17	74.0	21.83	Peak	126.00	100	Vertical	Pass
5**	11824.538	43.01	54.0	10.99	AV	126.00	100	Vertical	Pass
6	15807.075	54.97	74.0	19.03	Peak	273.00	300	Vertical	Pass
6**	15807.075	46.28	54.0	7.72	AV	273.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1535.200	38.90	74.0	35.10	Peak	353.00	300	Horizontal	Pass
1**	1535.200	29.62	54.0	24.38	AV	353.00	300	Horizontal	Pass
2	4391.000	51.24	74.0	22.76	Peak	0.00	200	Horizontal	Pass
2**	4391.000	41.22	54.0	12.78	AV	0.00	200	Horizontal	Pass
3	5244.600	101.53	--	--	Peak	316.00	200	Horizontal	N/A
3**	5244.600	94.12	--	--	AV	316.00	200	Horizontal	N/A
4	7451.663	50.07	74.0	23.93	Peak	140.00	400	Horizontal	Pass
4**	7451.663	41.94	54.0	12.06	AV	140.00	400	Horizontal	Pass
5	10925.525	51.76	74.0	22.24	Peak	215.00	200	Horizontal	Pass
5**	10925.525	42.89	54.0	11.11	AV	215.00	200	Horizontal	Pass
6	15819.675	54.76	74.0	19.24	Peak	0.00	300	Horizontal	Pass
6**	15819.675	45.72	54.0	8.28	AV	0.00	300	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	1495.900	42.34	74.0	31.66	Peak	254.00	100	Vertical	Pass
1**	1495.900	29.70	54.0	24.30	AV	254.00	100	Vertical	Pass
2	3985.600	49.78	74.0	24.22	Peak	351.00	200	Vertical	Pass
2**	3985.600	40.68	54.0	13.32	AV	351.00	200	Vertical	Pass
3	5245.600	95.12	--	--	Peak	170.00	100	Vertical	N/A
3**	5245.600	87.09	--	--	AV	170.00	100	Vertical	N/A
4	7454.250	49.87	74.0	24.13	Peak	193.00	200	Vertical	Pass
4**	7454.250	41.69	54.0	12.31	AV	193.00	200	Vertical	Pass
5	12574.338	52.26	74.0	21.74	Peak	343.00	200	Vertical	Pass
5**	12574.338	42.87	54.0	11.13	AV	343.00	200	Vertical	Pass
6	16108.162	54.61	74.0	19.39	Peak	234.00	300	Vertical	Pass
6**	16108.162	45.34	54.0	8.66	AV	234.00	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	1601.800	39.07	74.0	34.93	Peak	255.00	200	Horizontal	Pass
1**	1601.800	28.72	54.0	25.28	AV	255.00	200	Horizontal	Pass
2	4358.200	50.04	74.0	23.96	Peak	295.00	400	Horizontal	Pass
2**	4358.200	39.81	54.0	14.19	AV	295.00	400	Horizontal	Pass
3	5175.400	104.90	--	--	Peak	360.00	150	Horizontal	N/A
3**	5175.400	97.86	--	--	AV	360.00	150	Horizontal	N/A
4	7597.712	49.39	74.0	24.61	Peak	82.00	200	Horizontal	Pass
4**	7597.712	40.46	54.0	13.54	AV	82.00	200	Horizontal	Pass
5	11321.413	51.75	74.0	22.25	Peak	48.00	150	Horizontal	Pass
5**	11321.413	43.02	54.0	10.98	AV	48.00	150	Horizontal	Pass
6	16087.950	54.45	74.0	19.55	Peak	0.00	400	Horizontal	Pass
6**	16087.950	44.85	54.0	9.15	AV	0.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.300	41.30	74.0	32.70	Peak	256.00	300	Vertical	Pass
1**	1498.300	29.35	54.0	24.65	AV	256.00	300	Vertical	Pass
2	4257.200	50.20	74.0	23.80	Peak	241.00	100	Vertical	Pass
2**	4257.200	41.15	54.0	12.85	AV	241.00	100	Vertical	Pass
3	5173.400	96.53	--	--	Peak	169.00	150	Vertical	N/A
3**	5173.400	89.32	--	--	AV	169.00	150	Vertical	N/A
4	7446.775	50.36	74.0	23.64	Peak	211.00	300	Vertical	Pass
4**	7446.775	40.88	54.0	13.12	AV	211.00	300	Vertical	Pass
5	11804.412	51.52	74.0	22.48	Peak	360.00	200	Vertical	Pass
5**	11804.412	42.59	54.0	11.41	AV	360.00	200	Vertical	Pass
6	15827.025	55.31	74.0	18.69	Peak	18.00	200	Vertical	Pass
6**	15827.025	45.89	54.0	8.11	AV	18.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1551.800	40.31	74.0	33.69	Peak	323.00	200	Horizontal	Pass
1**	1551.800	29.48	54.0	24.52	AV	323.00	200	Horizontal	Pass
2	4231.400	50.68	74.0	23.32	Peak	124.00	100	Horizontal	Pass
2**	4231.400	41.02	54.0	12.98	AV	124.00	100	Horizontal	Pass
3	5214.800	105.30	--	--	Peak	360.00	150	Horizontal	N/A
3**	5214.800	97.83	--	--	AV	360.00	150	Horizontal	N/A
4	7433.263	50.62	74.0	23.38	Peak	220.00	100	Horizontal	Pass
4**	7433.263	41.83	54.0	12.17	AV	220.00	100	Horizontal	Pass
5	12618.037	52.62	74.0	21.38	Peak	186.00	200	Horizontal	Pass
5**	12618.037	42.77	54.0	11.23	AV	186.00	200	Horizontal	Pass
6	15560.325	55.82	74.0	18.18	Peak	148.00	200	Horizontal	Pass
6**	15560.325	45.97	54.0	8.03	AV	148.00	200	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	1498.700	41.83	74.0	32.17	Peak	260.00	100	Vertical	Pass
1**	1498.700	31.26	54.0	22.74	AV	260.00	100	Vertical	Pass
2	3996.600	50.09	74.0	23.91	Peak	192.00	100	Vertical	Pass
2**	3996.600	40.21	54.0	13.79	AV	192.00	100	Vertical	Pass
3	5214.600	94.02	--	--	Peak	158.00	100	Vertical	N/A
3**	5214.600	86.88	--	--	AV	158.00	100	Vertical	N/A
4	7451.375	51.06	74.0	22.94	Peak	287.00	200	Vertical	Pass
4**	7451.375	41.89	54.0	12.11	AV	287.00	200	Vertical	Pass
5	12517.125	52.16	74.0	21.84	Peak	338.00	200	Vertical	Pass
5**	12517.125	41.92	54.0	12.08	AV	338.00	200	Vertical	Pass
6	15807.075	54.55	74.0	19.45	Peak	0.00	200	Vertical	Pass
6**	15807.075	45.12	54.0	8.88	AV	0.00	200	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	1586.200	39.77	74.0	34.23	Peak	360.00	200	Horizontal	Pass
1**	1586.200	30.15	54.0	23.85	AV	360.00	200	Horizontal	Pass
2	4376.200	50.48	74.0	23.52	Peak	29.00	200	Horizontal	Pass
2**	4376.200	41.43	54.0	12.57	AV	29.00	200	Horizontal	Pass
3	5245.600	102.91	--	--	Peak	360.00	150	Horizontal	N/A
3**	5245.600	95.54	--	--	AV	360.00	150	Horizontal	N/A
4	7502.263	50.34	74.0	23.66	Peak	0.00	100	Horizontal	Pass
4**	7502.263	41.49	54.0	12.51	AV	0.00	100	Horizontal	Pass
5	12488.375	52.34	74.0	21.66	Peak	88.00	200	Horizontal	Pass
5**	12488.375	43.32	54.0	10.68	AV	88.00	200	Horizontal	Pass
6	15807.075	55.35	74.0	18.65	Peak	51.00	150	Horizontal	Pass
6**	15807.075	46.05	54.0	7.95	AV	51.00	150	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	1499.700	42.68	74.0	31.32	Peak	265.00	100	Vertical	Pass
1**	1499.700	32.09	54.0	21.91	AV	265.00	100	Vertical	Pass
2	3964.400	49.98	74.0	24.02	Peak	0.00	200	Vertical	Pass
2**	3964.400	40.76	54.0	13.24	AV	0.00	200	Vertical	Pass
3	5239.800	94.33	--	--	Peak	150.00	100	Vertical	N/A
3**	5239.800	85.35	--	--	AV	150.00	100	Vertical	N/A
4	7433.838	50.92	74.0	23.08	Peak	156.00	300	Vertical	Pass
4**	7433.838	42.13	54.0	11.87	AV	156.00	300	Vertical	Pass
5	10922.362	51.91	74.0	22.09	Peak	122.00	150	Vertical	Pass
5**	10922.362	43.49	54.0	10.51	AV	122.00	150	Vertical	Pass
6	15823.612	55.03	74.0	18.97	Peak	223.00	100	Vertical	Pass
6**	15823.612	45.58	54.0	8.42	AV	223.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1567.100	39.39	74.0	34.61	Peak	360.00	400	Horizontal	Pass
1**	1567.100	29.56	54.0	24.44	AV	360.00	400	Horizontal	Pass
2	4369.200	50.49	74.0	23.51	Peak	316.00	300	Horizontal	Pass
2**	4369.200	41.37	54.0	12.63	AV	316.00	300	Horizontal	Pass
3	5187.600	101.66	--	--	Peak	304.00	150	Horizontal	N/A
3**	5187.600	93.49	--	--	AV	304.00	150	Horizontal	N/A
4	7438.437	51.71	74.0	22.29	Peak	329.00	200	Horizontal	Pass
4**	7438.437	41.77	54.0	12.23	AV	329.00	200	Horizontal	Pass
5	12279.075	52.51	74.0	21.49	Peak	187.00	150	Horizontal	Pass
5**	12279.075	41.67	54.0	12.33	AV	187.00	150	Horizontal	Pass
6	16098.713	55.51	74.0	18.49	Peak	61.00	400	Horizontal	Pass
6**	16098.713	45.82	54.0	8.18	AV	61.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.800	40.69	74.0	33.31	Peak	252.00	300	Vertical	Pass
1**	1496.800	29.96	54.0	24.04	AV	252.00	300	Vertical	Pass
2	4202.200	50.02	74.0	23.98	Peak	252.00	100	Vertical	Pass
2**	4202.200	40.81	54.0	13.19	AV	252.00	100	Vertical	Pass
3	5188.600	94.77	--	--	Peak	170.00	150	Vertical	N/A
3**	5188.600	87.29	--	--	AV	170.00	150	Vertical	N/A
4	7454.825	50.73	74.0	23.27	Peak	138.00	100	Vertical	Pass
4**	7454.825	40.86	54.0	13.14	AV	138.00	100	Vertical	Pass
5	11319.687	52.85	74.0	21.15	Peak	226.00	150	Vertical	Pass
5**	11319.687	42.33	54.0	11.67	AV	226.00	150	Vertical	Pass
6	15819.675	55.52	74.0	18.48	Peak	298.00	400	Vertical	Pass
6**	15819.675	45.22	54.0	8.78	AV	298.00	400	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	1500.000	39.37	74.0	34.63	Peak	190.00	200	Horizontal	Pass
1**	1500.000	30.67	54.0	23.33	AV	190.00	200	Horizontal	Pass
2	4383.200	50.23	74.0	23.77	Peak	47.00	300	Horizontal	Pass
2**	4383.200	40.64	54.0	13.36	AV	47.00	300	Horizontal	Pass
3	5244.200	101.21	--	--	Peak	351.00	150	Horizontal	N/A
3**	5244.200	93.87	--	--	AV	351.00	150	Horizontal	N/A
4	7460.862	50.31	74.0	23.69	Peak	270.00	200	Horizontal	Pass
4**	7460.862	40.42	54.0	13.58	AV	270.00	200	Horizontal	Pass
5	12299.775	51.75	74.0	22.25	Peak	140.00	150	Horizontal	Pass
5**	12299.775	41.34	54.0	12.66	AV	140.00	150	Horizontal	Pass
6	15821.250	55.34	74.0	18.66	Peak	126.00	100	Horizontal	Pass
6**	15821.250	46.42	54.0	7.58	AV	126.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.000	41.29	74.0	32.71	Peak	256.00	200	Vertical	Pass
1**	1495.000	28.86	54.0	25.14	AV	256.00	200	Vertical	Pass
2	4183.800	50.28	74.0	23.72	Peak	240.00	300	Vertical	Pass
2**	4183.800	40.87	54.0	13.13	AV	240.00	300	Vertical	Pass
3	5245.200	95.19	--	--	Peak	166.00	200	Vertical	N/A
3**	5245.200	88.64	--	--	AV	166.00	200	Vertical	N/A
4	7275.138	50.71	74.0	23.29	Peak	287.00	200	Vertical	Pass
4**	7275.138	40.29	54.0	13.71	AV	287.00	200	Vertical	Pass
5	12607.688	52.20	74.0	21.80	Peak	250.00	200	Vertical	Pass
5**	12607.688	43.04	54.0	10.96	AV	250.00	200	Vertical	Pass
6	15628.838	54.84	74.0	19.16	Peak	339.00	200	Vertical	Pass
6**	15628.838	45.11	54.0	8.89	AV	339.00	200	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	1460.900	38.83	74.0	35.17	Peak	84.00	200	Horizontal	Pass
1**	1460.900	29.69	54.0	24.31	AV	84.00	200	Horizontal	Pass
2	3725.600	50.38	74.0	23.62	Peak	360.00	300	Horizontal	Pass
2**	3725.600	41.24	54.0	12.76	AV	360.00	300	Horizontal	Pass
3	5201.000	98.84	--	--	Peak	360.00	100	Horizontal	N/A
3**	5201.000	91.58	--	--	AV	360.00	100	Horizontal	N/A
4	7457.700	50.35	74.0	23.65	Peak	306.00	100	Horizontal	Pass
4**	7457.700	40.32	54.0	13.68	AV	306.00	100	Horizontal	Pass
5	11332.338	52.03	74.0	21.97	Peak	120.00	150	Horizontal	Pass
5**	11332.338	42.77	54.0	11.23	AV	120.00	150	Horizontal	Pass
6	16097.925	55.18	74.0	18.82	Peak	0.00	100	Horizontal	Pass
6**	16097.925	45.44	54.0	8.56	AV	0.00	100	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	1499.300	40.32	74.0	33.68	Peak	254.00	400	Vertical	Pass
1**	1499.300	31.11	54.0	22.89	AV	254.00	400	Vertical	Pass
2	4376.800	50.18	74.0	23.82	Peak	158.00	200	Vertical	Pass
2**	4376.800	40.92	54.0	13.08	AV	158.00	200	Vertical	Pass
3	5202.000	92.27	--	--	Peak	170.00	150	Vertical	N/A
3**	5202.000	84.45	--	--	AV	170.00	150	Vertical	N/A
4	7470.350	50.23	74.0	23.77	Peak	0.00	300	Vertical	Pass
4**	7470.350	40.28	54.0	13.72	AV	0.00	300	Vertical	Pass
5	11936.375	52.36	74.0	21.64	Peak	177.00	200	Vertical	Pass
5**	11936.375	42.40	54.0	11.60	AV	177.00	200	Vertical	Pass
6	16000.800	54.95	74.0	19.05	Peak	169.00	300	Vertical	Pass
6**	16000.800	45.65	54.0	8.35	AV	169.00	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	1456.900	39.10	74.0	34.90	Peak	0.00	300	Horizontal	Pass
1**	1456.900	29.53	54.0	24.47	AV	0.00	300	Horizontal	Pass
2	4182.400	49.85	74.0	24.15	Peak	292.00	300	Horizontal	Pass
2**	4182.400	40.89	54.0	13.11	AV	292.00	300	Horizontal	Pass
3	5263.200	104.75	--	--	Peak	342.00	100	Horizontal	N/A
3**	5263.200	96.12	--	--	AV	342.00	100	Horizontal	N/A
4	7455.688	50.47	74.0	23.53	Peak	285.00	400	Horizontal	Pass
4**	7455.688	40.42	54.0	13.58	AV	285.00	400	Horizontal	Pass
5	11946.438	52.37	74.0	21.63	Peak	77.00	100	Horizontal	Pass
5**	11946.438	43.04	54.0	10.96	AV	77.00	100	Horizontal	Pass
6	15815.213	55.14	74.0	18.86	Peak	237.00	300	Horizontal	Pass
6**	15815.213	45.40	54.0	8.60	AV	237.00	300	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	1495.900	41.52	74.0	32.48	Peak	255.00	300	Vertical	Pass
1**	1495.900	32.21	54.0	21.79	AV	255.00	300	Vertical	Pass
2	4220.400	50.56	74.0	23.44	Peak	8.00	100	Vertical	Pass
2**	4220.400	40.21	54.0	13.79	AV	8.00	100	Vertical	Pass
3	5263.000	98.51	--	--	Peak	162.00	100	Vertical	N/A
3**	5263.000	89.51	--	--	AV	162.00	100	Vertical	N/A
4	7504.850	49.95	74.0	24.05	Peak	83.00	400	Vertical	Pass
4**	7504.850	41.28	54.0	12.72	AV	83.00	400	Vertical	Pass
5	11824.825	51.81	74.0	22.19	Peak	360.00	150	Vertical	Pass
5**	11824.825	42.53	54.0	11.47	AV	360.00	150	Vertical	Pass
6	15837.525	55.30	74.0	18.70	Peak	360.00	100	Vertical	Pass
6**	15837.525	45.37	54.0	8.63	AV	360.00	100	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	1503.800	38.51	74.0	35.49	Peak	199.00	100	Horizontal	Pass
1**	1503.800	29.39	54.0	24.61	AV	199.00	100	Horizontal	Pass
2	4399.000	49.90	74.0	24.10	Peak	193.00	200	Horizontal	Pass
2**	4399.000	39.74	54.0	14.26	AV	193.00	200	Horizontal	Pass
3	5306.200	104.82	--	--	Peak	360.00	150	Horizontal	N/A
3**	5306.200	97.18	--	--	AV	360.00	150	Horizontal	N/A
4	7570.975	50.00	74.0	24.00	Peak	0.00	100	Horizontal	Pass
4**	7570.975	39.98	54.0	14.02	AV	0.00	100	Horizontal	Pass
5	11332.912	51.96	74.0	22.04	Peak	0.00	100	Horizontal	Pass
5**	11332.912	42.96	54.0	11.04	AV	0.00	100	Horizontal	Pass
6	15675.563	55.10	74.0	18.90	Peak	189.00	300	Horizontal	Pass
6**	15675.563	44.57	54.0	9.43	AV	189.00	300	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	1500.200	42.13	74.0	31.87	Peak	245.00	300	Vertical	Pass
1**	1500.200	30.20	54.0	23.80	AV	245.00	300	Vertical	Pass
2	3995.600	50.42	74.0	23.58	Peak	90.00	100	Vertical	Pass
2**	3995.600	41.39	54.0	12.61	AV	90.00	100	Vertical	Pass
3	5303.400	96.90	--	--	Peak	170.00	100	Vertical	N/A
3**	5303.400	90.26	--	--	AV	170.00	100	Vertical	N/A
4	7616.400	50.19	74.0	23.81	Peak	360.00	300	Vertical	Pass
4**	7616.400	40.92	54.0	13.08	AV	360.00	300	Vertical	Pass
5	11935.513	51.72	74.0	22.28	Peak	119.00	100	Vertical	Pass
5**	11935.513	42.71	54.0	11.29	AV	119.00	100	Vertical	Pass
6	15650.625	54.78	74.0	19.22	Peak	136.00	100	Vertical	Pass
6**	15650.625	46.30	54.0	7.70	AV	136.00	100	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	1517.900	38.56	74.0	35.44	Peak	177.00	100	Horizontal	Pass
1**	1517.900	30.31	54.0	23.69	AV	177.00	100	Horizontal	Pass
2	3989.800	50.34	74.0	23.66	Peak	0.00	300	Horizontal	Pass
2**	3989.800	40.88	54.0	13.12	AV	0.00	300	Horizontal	Pass
3	5326.000	104.98	--	--	Peak	359.00	100	Horizontal	N/A
3**	5326.000	97.92	--	--	AV	359.00	100	Horizontal	N/A
4	7578.737	50.07	74.0	23.93	Peak	79.00	400	Horizontal	Pass
4**	7578.737	40.54	54.0	13.46	AV	79.00	400	Horizontal	Pass
5	10922.362	52.15	74.0	21.85	Peak	44.00	100	Horizontal	Pass
5**	10922.362	43.35	54.0	10.65	AV	44.00	100	Horizontal	Pass
6	15517.537	55.35	74.0	18.65	Peak	60.00	400	Horizontal	Pass
6**	15517.537	45.15	54.0	8.85	AV	60.00	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	1498.000	41.51	74.0	32.49	Peak	249.00	300	Vertical	Pass
1**	1498.000	29.68	54.0	24.32	AV	249.00	300	Vertical	Pass
2	4397.000	50.58	74.0	23.42	Peak	127.00	400	Vertical	Pass
2**	4397.000	40.99	54.0	13.01	AV	127.00	400	Vertical	Pass
3	5322.600	98.93	--	--	Peak	160.00	200	Vertical	N/A
3**	5322.600	90.38	--	--	AV	160.00	200	Vertical	N/A
4	7449.937	49.98	74.0	24.02	Peak	274.00	100	Vertical	Pass
4**	7449.937	41.51	54.0	12.49	AV	274.00	100	Vertical	Pass
5	11940.112	51.92	74.0	22.08	Peak	360.00	200	Vertical	Pass
5**	11940.112	43.13	54.0	10.87	AV	360.00	200	Vertical	Pass
6	15811.013	55.28	74.0	18.72	Peak	310.00	400	Vertical	Pass
6**	15811.013	45.70	54.0	8.30	AV	310.00	400	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	1499.100	39.40	74.0	34.60	Peak	0.00	100	Horizontal	Pass
1**	1499.100	29.62	54.0	24.38	AV	0.00	100	Horizontal	Pass
2	4396.600	50.16	74.0	23.84	Peak	135.00	300	Horizontal	Pass
2**	4396.600	40.55	54.0	13.45	AV	135.00	300	Horizontal	Pass
3	5253.400	104.39	--	--	Peak	0.00	200	Horizontal	N/A
3**	5253.400	96.94	--	--	AV	0.00	200	Horizontal	N/A
4	7342.125	50.70	74.0	23.30	Peak	189.00	200	Horizontal	Pass
4**	7342.125	41.20	54.0	12.80	AV	189.00	200	Horizontal	Pass
5	11332.912	51.98	74.0	22.02	Peak	360.00	150	Horizontal	Pass
5**	11332.912	43.13	54.0	10.87	AV	360.00	150	Horizontal	Pass
6	15478.688	54.81	74.0	19.19	Peak	277.00	400	Horizontal	Pass
6**	15478.688	45.59	54.0	8.41	AV	277.00	400	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	1496.400	42.71	74.0	31.29	Peak	245.00	300	Vertical	Pass
1**	1496.400	31.10	54.0	22.90	AV	245.00	300	Vertical	Pass
2	4343.600	50.33	74.0	23.67	Peak	31.00	100	Vertical	Pass
2**	4343.600	41.43	54.0	12.57	AV	31.00	100	Vertical	Pass
3	5265.400	97.24	--	--	Peak	170.00	150	Vertical	N/A
3**	5265.400	90.13	--	--	AV	170.00	150	Vertical	N/A
4	7340.400	50.98	74.0	23.02	Peak	310.00	400	Vertical	Pass
4**	7340.400	41.25	54.0	12.75	AV	310.00	400	Vertical	Pass
5	11779.974	52.41	74.0	21.59	Peak	292.00	150	Vertical	Pass
5**	11779.974	42.30	54.0	11.70	AV	292.00	150	Vertical	Pass
6	15621.488	54.80	74.0	19.20	Peak	278.00	100	Vertical	Pass
6**	15621.488	43.96	54.0	10.04	AV	278.00	100	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	1506.300	39.33	74.0	34.67	Peak	360.00	400	Horizontal	Pass
1**	1506.300	30.14	54.0	23.86	AV	360.00	400	Horizontal	Pass
2	3960.400	50.63	74.0	23.37	Peak	0.00	100	Horizontal	Pass
2**	3960.400	40.94	54.0	13.06	AV	0.00	100	Horizontal	Pass
3	5303.000	105.17	--	--	Peak	355.00	150	Horizontal	N/A
3**	5303.000	96.98	--	--	AV	355.00	150	Horizontal	N/A
4	7462.013	50.06	74.0	23.94	Peak	309.00	300	Horizontal	Pass
4**	7462.013	41.42	54.0	12.58	AV	309.00	300	Horizontal	Pass
5	10928.113	51.62	74.0	22.38	Peak	102.00	100	Horizontal	Pass
5**	10928.113	42.42	54.0	11.58	AV	102.00	100	Horizontal	Pass
6	16093.463	54.76	74.0	19.24	Peak	198.00	300	Horizontal	Pass
6**	16093.463	45.82	54.0	8.18	AV	198.00	300	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	1492.900	41.56	74.0	32.44	Peak	249.00	400	Vertical	Pass
1**	1492.900	29.66	54.0	24.34	AV	249.00	400	Vertical	Pass
2	4005.000	49.83	74.0	24.17	Peak	168.00	400	Vertical	Pass
2**	4005.000	41.10	54.0	12.90	AV	168.00	400	Vertical	Pass
3	5293.400	97.54	--	--	Peak	168.00	200	Vertical	N/A
3**	5293.400	89.69	--	--	AV	168.00	200	Vertical	N/A
4	7468.625	49.79	74.0	24.21	Peak	75.00	300	Vertical	Pass
4**	7468.625	40.46	54.0	13.54	AV	75.00	300	Vertical	Pass
5	10930.125	51.37	74.0	22.63	Peak	0.00	100	Vertical	Pass
5**	10930.125	42.89	54.0	11.11	AV	0.00	100	Vertical	Pass
6	16141.237	54.30	74.0	19.70	Peak	17.00	100	Vertical	Pass
6**	16141.237	45.46	54.0	8.54	AV	17.00	100	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	1490.500	38.83	74.0	35.17	Peak	326.00	100	Horizontal	Pass
1**	1490.500	29.90	54.0	24.10	AV	326.00	100	Horizontal	Pass
2	4295.400	49.96	74.0	24.04	Peak	177.00	100	Horizontal	Pass
2**	4295.400	40.61	54.0	13.39	AV	177.00	100	Horizontal	Pass
3	5322.800	105.14	--	--	Peak	0.00	150	Horizontal	N/A
3**	5322.800	97.53	--	--	AV	0.00	150	Horizontal	N/A
4	7608.350	49.88	74.0	24.12	Peak	2.00	200	Horizontal	Pass
4**	7608.350	42.03	54.0	11.97	AV	2.00	200	Horizontal	Pass
5	12580.662	52.20	74.0	21.80	Peak	72.00	100	Horizontal	Pass
5**	12580.662	42.02	54.0	11.98	AV	72.00	100	Horizontal	Pass
6	15834.900	55.74	74.0	18.26	Peak	297.00	200	Horizontal	Pass
6**	15834.900	44.82	54.0	9.18	AV	297.00	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	1495.300	42.12	74.0	31.88	Peak	251.00	200	Vertical	Pass
1**	1495.300	34.25	54.0	19.75	AV	251.00	200	Vertical	Pass
2	3954.200	50.53	74.0	23.47	Peak	169.00	100	Vertical	Pass
2**	3954.200	40.08	54.0	13.92	AV	169.00	100	Vertical	Pass
3	5326.200	97.73	--	--	Peak	169.00	150	Vertical	N/A
3**	5326.200	90.24	--	--	AV	169.00	150	Vertical	N/A
4	7503.700	50.55	74.0	23.45	Peak	187.00	200	Vertical	Pass
4**	7503.700	41.22	54.0	12.78	AV	187.00	200	Vertical	Pass
5	11980.937	51.53	74.0	22.47	Peak	274.00	200	Vertical	Pass
5**	11980.937	40.77	54.0	13.23	AV	274.00	200	Vertical	Pass
6	16177.200	54.66	74.0	19.34	Peak	158.00	100	Vertical	Pass
6**	16177.200	45.47	54.0	8.53	AV	158.00	100	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	1587.400	39.30	74.0	34.70	Peak	252.00	400	Horizontal	Pass
1**	1587.400	30.06	54.0	23.94	AV	252.00	400	Horizontal	Pass
2	3983.600	50.47	74.0	23.53	Peak	206.00	100	Horizontal	Pass
2**	3983.600	41.12	54.0	12.88	AV	206.00	100	Horizontal	Pass
3	5267.800	101.93	--	--	Peak	10.00	100	Horizontal	N/A
3**	5267.800	93.72	--	--	AV	10.00	100	Horizontal	N/A
4	7504.850	50.22	74.0	23.78	Peak	16.00	100	Horizontal	Pass
4**	7504.850	41.35	54.0	12.65	AV	16.00	100	Horizontal	Pass
5	12480.326	51.47	74.0	22.53	Peak	327.00	100	Horizontal	Pass
5**	12480.326	41.68	54.0	12.32	AV	327.00	100	Horizontal	Pass
6	16096.088	54.97	74.0	19.03	Peak	97.00	300	Horizontal	Pass
6**	16096.088	45.22	54.0	8.78	AV	97.00	300	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	1493.400	40.32	74.0	33.68	Peak	237.00	400	Vertical	Pass
1**	1493.400	29.90	54.0	24.10	AV	237.00	400	Vertical	Pass
2	4065.400	50.39	74.0	23.61	Peak	70.00	300	Vertical	Pass
2**	4065.400	40.23	54.0	13.77	AV	70.00	300	Vertical	Pass
3	5273.600	92.79	--	--	Peak	161.00	150	Vertical	N/A
3**	5273.600	85.49	--	--	AV	161.00	150	Vertical	N/A
4	7475.525	50.14	74.0	23.86	Peak	257.00	400	Vertical	Pass
4**	7475.525	40.79	54.0	13.21	AV	257.00	400	Vertical	Pass
5	10926.099	52.54	74.0	21.46	Peak	0.00	150	Vertical	Pass
5**	10926.099	42.76	54.0	11.24	AV	0.00	150	Vertical	Pass
6	15814.688	54.96	74.0	19.04	Peak	25.00	200	Vertical	Pass
6**	15814.688	45.57	54.0	8.43	AV	25.00	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	1488.700	38.56	74.0	35.44	Peak	157.00	300	Horizontal	Pass
1**	1488.700	29.95	54.0	24.05	AV	157.00	300	Horizontal	Pass
2	4207.600	50.09	74.0	23.91	Peak	35.00	100	Horizontal	Pass
2**	4207.600	40.13	54.0	13.87	AV	35.00	100	Horizontal	Pass
3	5313.800	102.45	--	--	Peak	0.00	200	Horizontal	N/A
3**	5313.800	95.98	--	--	AV	0.00	200	Horizontal	N/A
4	7446.200	49.87	74.0	24.13	Peak	328.00	200	Horizontal	Pass
4**	7446.200	41.07	54.0	12.93	AV	328.00	200	Horizontal	Pass
5	11335.788	52.21	74.0	21.79	Peak	276.00	100	Horizontal	Pass
5**	11335.788	42.38	54.0	11.62	AV	276.00	100	Horizontal	Pass
6	15825.450	55.03	74.0	18.97	Peak	179.00	200	Horizontal	Pass
6**	15825.450	45.77	54.0	8.23	AV	179.00	200	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	1497.100	39.31	74.0	34.69	Peak	268.00	300	Vertical	Pass
1**	1497.100	29.34	54.0	24.66	AV	268.00	300	Vertical	Pass
2	4118.000	50.77	74.0	23.23	Peak	347.00	200	Vertical	Pass
2**	4118.000	40.89	54.0	13.11	AV	347.00	200	Vertical	Pass
3	5307.800	96.44	--	--	Peak	161.00	200	Vertical	N/A
3**	5307.800	88.68	--	--	AV	161.00	200	Vertical	N/A
4	7507.150	50.51	74.0	23.49	Peak	162.00	300	Vertical	Pass
4**	7507.150	40.62	54.0	13.38	AV	162.00	300	Vertical	Pass
5	10919.775	51.87	74.0	22.13	Peak	0.00	200	Vertical	Pass
5**	10919.775	43.66	54.0	10.34	AV	0.00	200	Vertical	Pass
6	16133.888	54.79	74.0	19.21	Peak	170.00	400	Vertical	Pass
6**	16133.888	45.77	54.0	8.23	AV	170.00	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	1581.300	38.99	74.0	35.01	Peak	139.00	300	Horizontal	Pass
1**	1581.300	29.14	54.0	24.86	AV	139.00	300	Horizontal	Pass
2	4070.600	50.36	74.0	23.64	Peak	0.00	100	Horizontal	Pass
2**	4070.600	41.07	54.0	12.93	AV	0.00	100	Horizontal	Pass
3	5266.000	104.24	--	--	Peak	311.00	150	Horizontal	N/A
3**	5266.000	97.72	--	--	AV	311.00	150	Horizontal	N/A
4	7450.513	50.38	74.0	23.62	Peak	136.00	100	Horizontal	Pass
4**	7450.513	40.59	54.0	13.41	AV	136.00	100	Horizontal	Pass
5	10920.063	51.72	74.0	22.28	Peak	170.00	150	Horizontal	Pass
5**	10920.063	43.47	54.0	10.53	AV	170.00	150	Horizontal	Pass
6	16134.938	54.72	74.0	19.28	Peak	360.00	100	Horizontal	Pass
6**	16134.938	45.52	54.0	8.48	AV	360.00	100	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	1496.400	41.43	74.0	32.57	Peak	251.00	100	Vertical	Pass
1**	1496.400	29.42	54.0	24.58	AV	251.00	100	Vertical	Pass
2	4137.200	50.17	74.0	23.83	Peak	227.00	100	Vertical	Pass
2**	4137.200	41.10	54.0	12.90	AV	227.00	100	Vertical	Pass
3	5253.400	97.72	--	--	Peak	169.00	200	Vertical	N/A
3**	5253.400	89.04	--	--	AV	169.00	200	Vertical	N/A
4	7621.287	49.95	74.0	24.05	Peak	127.00	200	Vertical	Pass
4**	7621.287	41.60	54.0	12.40	AV	127.00	200	Vertical	Pass
5	11494.200	52.05	74.0	21.95	Peak	276.00	200	Vertical	Pass
5**	11494.200	42.34	54.0	11.66	AV	276.00	200	Vertical	Pass
6	15818.625	55.05	74.0	18.95	Peak	360.00	100	Vertical	Pass
6**	15818.625	45.76	54.0	8.24	AV	360.00	100	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	1518.500	39.65	74.0	34.35	Peak	127.00	200	Horizontal	Pass
1**	1518.500	29.00	54.0	25.00	AV	127.00	200	Horizontal	Pass
2	4373.200	51.67	74.0	22.33	Peak	78.00	200	Horizontal	Pass
2**	4373.200	40.34	54.0	13.66	AV	78.00	200	Horizontal	Pass
3	5306.000	104.65	--	--	Peak	0.00	100	Horizontal	N/A
3**	5306.000	97.91	--	--	AV	0.00	100	Horizontal	N/A
4	7446.775	49.72	74.0	24.28	Peak	120.00	200	Horizontal	Pass
4**	7446.775	40.67	54.0	13.33	AV	120.00	200	Horizontal	Pass
5	11911.937	51.99	74.0	22.01	Peak	85.00	200	Horizontal	Pass
5**	11911.937	42.34	54.0	11.66	AV	85.00	200	Horizontal	Pass
6	15531.450	55.09	74.0	18.91	Peak	118.00	400	Horizontal	Pass
6**	15531.450	46.30	54.0	7.70	AV	118.00	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	1498.800	40.99	74.0	33.01	Peak	109.00	300	Vertical	Pass
1**	1498.800	29.36	54.0	24.64	AV	109.00	300	Vertical	Pass
2	4181.200	50.09	74.0	23.91	Peak	207.00	200	Vertical	Pass
2**	4181.200	41.24	54.0	12.76	AV	207.00	200	Vertical	Pass
3	5305.000	97.04	--	--	Peak	172.00	100	Vertical	N/A
3**	5305.000	90.33	--	--	AV	172.00	100	Vertical	N/A
4	7331.775	50.21	74.0	23.79	Peak	179.00	400	Vertical	Pass
4**	7331.775	40.77	54.0	13.23	AV	179.00	400	Vertical	Pass
5	11378.625	51.84	74.0	22.16	Peak	360.00	150	Vertical	Pass
5**	11378.625	41.91	54.0	12.09	AV	360.00	150	Vertical	Pass
6	15470.812	54.98	74.0	19.02	Peak	192.00	400	Vertical	Pass
6**	15470.812	45.30	54.0	8.70	AV	192.00	400	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	1481.200	38.92	74.0	35.08	Peak	71.00	100	Horizontal	Pass
1**	1481.200	29.69	54.0	24.31	AV	71.00	100	Horizontal	Pass
2	4156.400	50.19	74.0	23.81	Peak	171.00	200	Horizontal	Pass
2**	4156.400	41.00	54.0	13.00	AV	171.00	200	Horizontal	Pass
3	5325.200	104.91	--	--	Peak	358.00	100	Horizontal	N/A
3**	5325.200	97.15	--	--	AV	358.00	100	Horizontal	N/A
4	7451.950	50.25	74.0	23.75	Peak	12.00	300	Horizontal	Pass
4**	7451.950	40.73	54.0	13.27	AV	12.00	300	Horizontal	Pass
5	12496.137	52.15	74.0	21.85	Peak	345.00	200	Horizontal	Pass
5**	12496.137	42.72	54.0	11.28	AV	345.00	200	Horizontal	Pass
6	15815.213	54.60	74.0	19.40	Peak	136.00	400	Horizontal	Pass
6**	15815.213	45.76	54.0	8.24	AV	136.00	400	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	1497.000	42.67	74.0	31.33	Peak	252.00	300	Vertical	Pass
1**	1497.000	32.85	54.0	21.15	AV	252.00	300	Vertical	Pass
2	4233.400	50.61	74.0	23.39	Peak	79.00	200	Vertical	Pass
2**	4233.400	40.46	54.0	13.54	AV	79.00	200	Vertical	Pass
3	5324.000	98.71	--	--	Peak	172.00	200	Vertical	N/A
3**	5324.000	91.50	--	--	AV	172.00	200	Vertical	N/A
4	7509.737	49.92	74.0	24.08	Peak	0.00	300	Vertical	Pass
4**	7509.737	40.89	54.0	13.11	AV	0.00	300	Vertical	Pass
5	11943.562	52.77	74.0	21.23	Peak	327.00	200	Vertical	Pass
5**	11943.562	42.69	54.0	11.31	AV	327.00	200	Vertical	Pass
6	15977.175	55.26	74.0	18.74	Peak	77.00	300	Vertical	Pass
6**	15977.175	45.16	54.0	8.84	AV	77.00	300	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	1501.300	39.42	74.0	34.58	Peak	135.00	200	Horizontal	Pass
1**	1501.300	30.15	54.0	23.85	AV	135.00	200	Horizontal	Pass
2	4350.600	50.33	74.0	23.67	Peak	185.00	400	Horizontal	Pass
2**	4350.600	40.50	54.0	13.50	AV	185.00	400	Horizontal	Pass
3	5268.000	102.26	--	--	Peak	356.00	100	Horizontal	N/A
3**	5268.000	93.78	--	--	AV	356.00	100	Horizontal	N/A
4	7463.162	49.54	74.0	24.46	Peak	206.00	100	Horizontal	Pass
4**	7463.162	41.16	54.0	12.84	AV	206.00	100	Horizontal	Pass
5	11332.625	52.44	74.0	21.56	Peak	0.00	150	Horizontal	Pass
5**	11332.625	42.45	54.0	11.55	AV	0.00	150	Horizontal	Pass
6	15816.787	55.17	74.0	18.83	Peak	313.00	100	Horizontal	Pass
6**	15816.787	45.87	54.0	8.13	AV	313.00	100	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	1496.700	41.98	74.0	32.02	Peak	253.00	300	Vertical	Pass
1**	1496.700	30.19	54.0	23.81	AV	253.00	300	Vertical	Pass
2	4296.600	50.12	74.0	23.88	Peak	189.00	300	Vertical	Pass
2**	4296.600	40.51	54.0	13.49	AV	189.00	300	Vertical	Pass
3	5268.000	91.70	--	--	Peak	178.00	100	Vertical	N/A
3**	5268.000	84.25	--	--	AV	178.00	100	Vertical	N/A
4	7447.638	50.09	74.0	23.91	Peak	116.00	400	Vertical	Pass
4**	7447.638	41.50	54.0	12.50	AV	116.00	400	Vertical	Pass
5	12215.250	52.15	74.0	21.85	Peak	29.00	100	Vertical	Pass
5**	12215.250	42.67	54.0	11.33	AV	29.00	100	Vertical	Pass
6	15832.013	54.45	74.0	19.55	Peak	83.00	150	Vertical	Pass
6**	15832.013	46.40	54.0	7.60	AV	83.00	150	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	1609.500	38.79	74.0	35.21	Peak	220.00	300	Horizontal	Pass
1**	1609.500	29.84	54.0	24.16	AV	220.00	300	Horizontal	Pass
2	4097.800	50.63	74.0	23.37	Peak	55.00	200	Horizontal	Pass
2**	4097.800	40.30	54.0	13.70	AV	55.00	200	Horizontal	Pass
3	5324.600	101.94	--	--	Peak	360.00	100	Horizontal	N/A
3**	5324.600	94.78	--	--	AV	360.00	100	Horizontal	N/A
4	7451.663	50.10	74.0	23.90	Peak	0.00	300	Horizontal	Pass
4**	7451.663	41.74	54.0	12.26	AV	0.00	300	Horizontal	Pass
5	11320.549	51.60	74.0	22.40	Peak	14.00	200	Horizontal	Pass
5**	11320.549	42.57	54.0	11.43	AV	14.00	200	Horizontal	Pass
6	15839.362	55.59	74.0	18.41	Peak	0.00	300	Horizontal	Pass
6**	15839.362	45.60	54.0	8.40	AV	0.00	300	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	1498.200	41.05	74.0	32.95	Peak	242.00	300	Vertical	Pass
1**	1498.200	34.05	54.0	19.95	AV	242.00	300	Vertical	Pass
2	4295.800	50.11	74.0	23.89	Peak	230.00	300	Vertical	Pass
2**	4295.800	40.52	54.0	13.48	AV	230.00	300	Vertical	Pass
3	5313.200	95.57	--	--	Peak	171.00	200	Vertical	N/A
3**	5313.200	87.77	--	--	AV	171.00	200	Vertical	N/A
4	7336.663	50.12	74.0	23.88	Peak	14.00	200	Vertical	Pass
4**	7336.663	40.60	54.0	13.40	AV	14.00	200	Vertical	Pass
5	11899.575	51.70	74.0	22.30	Peak	14.00	100	Vertical	Pass
5**	11899.575	42.62	54.0	11.38	AV	14.00	100	Vertical	Pass
6	15825.188	55.03	74.0	18.97	Peak	57.00	150	Vertical	Pass
6**	15825.188	46.09	54.0	7.91	AV	57.00	150	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	1611.500	39.02	74.0	34.98	Peak	63.00	300	Horizontal	Pass
1**	1611.500	29.28	54.0	24.72	AV	63.00	300	Horizontal	Pass
2	4384.800	50.48	74.0	23.52	Peak	345.00	300	Horizontal	Pass
2**	4384.800	41.02	54.0	12.98	AV	345.00	300	Horizontal	Pass
3	5308.200	99.56	--	--	Peak	357.00	200	Horizontal	N/A
3**	5308.200	92.67	--	--	AV	357.00	200	Horizontal	N/A
4	7421.763	50.12	74.0	23.88	Peak	310.00	100	Horizontal	Pass
4**	7421.763	40.92	54.0	13.08	AV	310.00	100	Horizontal	Pass
5	11344.987	51.85	74.0	22.15	Peak	0.00	200	Horizontal	Pass
5**	11344.987	41.74	54.0	12.26	AV	0.00	200	Horizontal	Pass
6	15496.537	54.43	74.0	19.57	Peak	0.00	400	Horizontal	Pass
6**	15496.537	43.57	54.0	10.43	AV	0.00	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	1496.800	41.48	74.0	32.52	Peak	255.00	300	Vertical	Pass
1**	1496.800	30.05	54.0	23.95	AV	255.00	300	Vertical	Pass
2	4138.000	50.54	74.0	23.46	Peak	115.00	100	Vertical	Pass
2**	4138.000	40.60	54.0	13.40	AV	115.00	100	Vertical	Pass
3	5315.400	90.29	--	--	Peak	195.00	150	Vertical	N/A
3**	5315.400	82.53	--	--	AV	195.00	150	Vertical	N/A
4	7443.900	49.88	74.0	24.12	Peak	153.00	400	Vertical	Pass
4**	7443.900	41.35	54.0	12.65	AV	153.00	400	Vertical	Pass
5	10924.662	51.78	74.0	22.22	Peak	360.00	200	Vertical	Pass
5**	10924.662	42.62	54.0	11.38	AV	360.00	200	Vertical	Pass
6	15640.125	54.60	74.0	19.40	Peak	314.00	200	Vertical	Pass
6**	15640.125	44.67	54.0	9.33	AV	314.00	200	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	1621.700	38.81	74.0	35.19	Peak	343.00	400	Horizontal	Pass
1**	1621.700	29.86	54.0	24.14	AV	343.00	400	Horizontal	Pass
2	4389.400	50.10	74.0	23.90	Peak	10.00	100	Horizontal	Pass
2**	4389.400	41.69	54.0	12.31	AV	10.00	100	Horizontal	Pass
3	5749.800	107.76	--	--	Peak	357.00	200	Horizontal	N/A
3**	5749.800	100.90	--	--	AV	357.00	200	Horizontal	N/A
4	7384.100	50.08	74.0	23.92	Peak	344.00	300	Horizontal	Pass
4**	7384.100	41.25	54.0	12.75	AV	344.00	300	Horizontal	Pass
5	11336.362	51.83	74.0	22.17	Peak	0.00	150	Horizontal	Pass
5**	11336.362	42.09	54.0	11.91	AV	0.00	150	Horizontal	Pass
6	16086.901	55.00	74.0	19.00	Peak	0.00	100	Horizontal	Pass
6**	16086.901	45.63	54.0	8.37	AV	0.00	100	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	1499.100	42.27	74.0	31.73	Peak	239.00	200	Vertical	Pass
1**	1499.100	29.72	54.0	24.28	AV	239.00	200	Vertical	Pass
2	4057.400	50.16	74.0	23.84	Peak	57.00	200	Vertical	Pass
2**	4057.400	39.45	54.0	14.55	AV	57.00	200	Vertical	Pass
3	5743.000	96.41	--	--	Peak	140.00	100	Vertical	N/A
3**	5743.000	89.57	--	--	AV	140.00	100	Vertical	N/A
4	7567.525	49.83	74.0	24.17	Peak	0.00	300	Vertical	Pass
4**	7567.525	40.36	54.0	13.64	AV	0.00	300	Vertical	Pass
5	12399.825	51.61	74.0	22.39	Peak	60.00	100	Vertical	Pass
5**	12399.825	41.94	54.0	12.06	AV	60.00	100	Vertical	Pass
6	16105.012	54.83	74.0	19.17	Peak	184.00	200	Vertical	Pass
6**	16105.012	45.00	54.0	9.00	AV	184.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1556.800	38.99	74.0	35.01	Peak	139.00	400	Horizontal	Pass
1**	1556.800	29.02	54.0	24.98	AV	139.00	400	Horizontal	Pass
2	4022.800	50.08	74.0	23.92	Peak	187.00	400	Horizontal	Pass
2**	4022.800	40.20	54.0	13.80	AV	187.00	400	Horizontal	Pass
3	5781.200	107.62	--	--	Peak	12.00	100	Horizontal	N/A
3**	5781.200	101.01	--	--	AV	12.00	100	Horizontal	N/A
4	7447.925	50.53	74.0	23.47	Peak	186.00	100	Horizontal	Pass
4**	7447.925	40.93	54.0	13.07	AV	186.00	100	Horizontal	Pass
5	10933.287	52.28	74.0	21.72	Peak	256.00	100	Horizontal	Pass
5**	10933.287	42.28	54.0	11.72	AV	256.00	100	Horizontal	Pass
6	16074.825	55.28	74.0	18.72	Peak	270.00	300	Horizontal	Pass
6**	16074.825	45.56	54.0	8.44	AV	270.00	300	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	1497.400	40.03	74.0	33.97	Peak	248.00	300	Vertical	Pass
1**	1497.400	30.02	54.0	23.98	AV	248.00	300	Vertical	Pass
2	4385.200	50.14	74.0	23.86	Peak	360.00	300	Vertical	Pass
2**	4385.200	41.50	54.0	12.50	AV	360.00	300	Vertical	Pass
3	5790.200	96.01	--	--	Peak	139.00	100	Vertical	N/A
3**	5790.200	89.19	--	--	AV	139.00	100	Vertical	N/A
4	7529.000	50.51	74.0	23.49	Peak	63.00	400	Vertical	Pass
4**	7529.000	40.72	54.0	13.28	AV	63.00	400	Vertical	Pass
5	10929.263	51.72	74.0	22.28	Peak	115.00	100	Vertical	Pass
5**	10929.263	43.45	54.0	10.55	AV	115.00	100	Vertical	Pass
6	16193.738	54.82	74.0	19.18	Peak	360.00	200	Vertical	Pass
6**	16193.738	44.68	54.0	9.32	AV	360.00	200	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	1544.800	39.15	74.0	34.85	Peak	0.00	300	Horizontal	Pass
1**	1544.800	29.44	54.0	24.56	AV	0.00	300	Horizontal	Pass
2	4184.400	50.52	74.0	23.48	Peak	34.00	400	Horizontal	Pass
2**	4184.400	41.12	54.0	12.88	AV	34.00	400	Horizontal	Pass
3	5828.200	109.56	--	--	Peak	12.00	100	Horizontal	N/A
3**	5828.200	101.59	--	--	AV	12.00	100	Horizontal	N/A
4	7471.213	50.03	74.0	23.97	Peak	196.00	200	Horizontal	Pass
4**	7471.213	41.00	54.0	13.00	AV	196.00	200	Horizontal	Pass
5	11842.650	52.42	74.0	21.58	Peak	19.00	100	Horizontal	Pass
5**	11842.650	42.17	54.0	11.83	AV	19.00	100	Horizontal	Pass
6	15898.951	54.25	74.0	19.75	Peak	97.00	300	Horizontal	Pass
6**	15898.951	44.88	54.0	9.12	AV	97.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1496.100	40.47	74.0	33.53	Peak	106.00	400	Vertical	Pass
1**	1496.100	29.99	54.0	24.01	AV	106.00	400	Vertical	Pass
2	4391.600	50.50	74.0	23.50	Peak	194.00	100	Vertical	Pass
2**	4391.600	41.68	54.0	12.32	AV	194.00	100	Vertical	Pass
3	5830.800	98.76	--	--	Peak	151.00	100	Vertical	N/A
3**	5830.800	92.08	--	--	AV	151.00	100	Vertical	N/A
4	7452.525	49.70	74.0	24.30	Peak	292.00	100	Vertical	Pass
4**	7452.525	41.28	54.0	12.72	AV	292.00	100	Vertical	Pass
5	12396.662	51.95	74.0	22.05	Peak	117.00	150	Vertical	Pass
5**	12396.662	42.23	54.0	11.77	AV	117.00	150	Vertical	Pass
6	16129.950	55.07	74.0	18.93	Peak	39.00	200	Vertical	Pass
6**	16129.950	45.28	54.0	8.72	AV	39.00	200	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	1506.600	39.03	74.0	34.97	Peak	360.00	400	Horizontal	Pass
1**	1506.600	29.68	54.0	24.32	AV	360.00	400	Horizontal	Pass
2	4385.600	50.28	74.0	23.72	Peak	171.00	200	Horizontal	Pass
2**	4385.600	41.87	54.0	12.13	AV	171.00	200	Horizontal	Pass
3	5741.000	107.38	--	--	Peak	0.00	200	Horizontal	N/A
3**	5741.000	100.31	--	--	AV	0.00	200	Horizontal	N/A
4	7494.788	50.28	74.0	23.72	Peak	328.00	100	Horizontal	Pass
4**	7494.788	40.77	54.0	13.23	AV	328.00	100	Horizontal	Pass
5	11945.575	52.33	74.0	21.67	Peak	132.00	100	Horizontal	Pass
5**	11945.575	42.44	54.0	11.56	AV	132.00	100	Horizontal	Pass
6	16034.138	55.11	74.0	18.89	Peak	360.00	200	Horizontal	Pass
6**	16034.138	44.14	54.0	9.86	AV	360.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.300	42.01	74.0	31.99	Peak	253.00	400	Vertical	Pass
1**	1500.300	30.05	54.0	23.95	AV	253.00	400	Vertical	Pass
2	4376.800	50.00	74.0	24.00	Peak	16.00	400	Vertical	Pass
2**	4376.800	41.03	54.0	12.97	AV	16.00	400	Vertical	Pass
3	5751.400	96.14	--	--	Peak	143.00	100	Vertical	N/A
3**	5751.400	88.32	--	--	AV	143.00	100	Vertical	N/A
4	7507.150	49.65	74.0	24.35	Peak	360.00	400	Vertical	Pass
4**	7507.150	42.07	54.0	11.93	AV	360.00	400	Vertical	Pass
5	12353.537	51.96	74.0	22.04	Peak	214.00	100	Vertical	Pass
5**	12353.537	40.98	54.0	13.02	AV	214.00	100	Vertical	Pass
6	16116.300	54.72	74.0	19.28	Peak	168.00	200	Vertical	Pass
6**	16116.300	44.97	54.0	9.03	AV	168.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1597.900	39.69	74.0	34.31	Peak	24.00	400	Horizontal	Pass
1**	1597.900	29.29	54.0	24.71	AV	24.00	400	Horizontal	Pass
2	3717.600	50.03	74.0	23.97	Peak	359.00	400	Horizontal	Pass
2**	3717.600	39.79	54.0	14.21	AV	359.00	400	Horizontal	Pass
3	5782.200	107.64	--	--	Peak	360.00	200	Horizontal	N/A
3**	5782.200	101.00	--	--	AV	360.00	200	Horizontal	N/A
4	7425.500	49.84	74.0	24.16	Peak	0.00	200	Horizontal	Pass
4**	7425.500	41.87	54.0	12.13	AV	0.00	200	Horizontal	Pass
5	10923.513	51.73	74.0	22.27	Peak	294.00	100	Horizontal	Pass
5**	10923.513	42.76	54.0	11.24	AV	294.00	100	Horizontal	Pass
6	16182.450	55.20	74.0	18.80	Peak	18.00	200	Horizontal	Pass
6**	16182.450	46.30	54.0	7.70	AV	18.00	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	1496.200	42.94	74.0	31.06	Peak	247.00	400	Vertical	Pass
1**	1496.200	29.62	54.0	24.38	AV	247.00	400	Vertical	Pass
2	3675.800	50.60	74.0	23.40	Peak	313.00	200	Vertical	Pass
2**	3675.800	40.09	54.0	13.91	AV	313.00	200	Vertical	Pass
3	5790.800	96.05	--	--	Peak	141.00	150	Vertical	N/A
3**	5790.800	88.62	--	--	AV	141.00	150	Vertical	N/A
4	7460.575	50.04	74.0	23.96	Peak	36.00	100	Vertical	Pass
4**	7460.575	41.18	54.0	12.82	AV	36.00	100	Vertical	Pass
5	11839.200	52.01	74.0	21.99	Peak	328.00	100	Vertical	Pass
5**	11839.200	42.03	54.0	11.97	AV	328.00	100	Vertical	Pass
6	16098.450	55.37	74.0	18.63	Peak	100.00	100	Vertical	Pass
6**	16098.450	45.81	54.0	8.19	AV	100.00	100	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	1484.600	39.23	74.0	34.77	Peak	212.00	100	Horizontal	Pass
1**	1484.600	29.01	54.0	24.99	AV	212.00	100	Horizontal	Pass
2	4143.200	50.38	74.0	23.62	Peak	159.00	300	Horizontal	Pass
2**	4143.200	40.55	54.0	13.45	AV	159.00	300	Horizontal	Pass
3	5830.200	108.69	--	--	Peak	360.00	100	Horizontal	N/A
3**	5830.200	101.35	--	--	AV	360.00	100	Horizontal	N/A
4	7445.625	50.34	74.0	23.66	Peak	206.00	400	Horizontal	Pass
4**	7445.625	41.56	54.0	12.44	AV	206.00	400	Horizontal	Pass
5	10925.813	51.72	74.0	22.28	Peak	169.00	200	Horizontal	Pass
5**	10925.813	43.09	54.0	10.91	AV	169.00	200	Horizontal	Pass
6	15812.850	54.58	74.0	19.42	Peak	351.00	400	Horizontal	Pass
6**	15812.850	45.79	54.0	8.21	AV	351.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.200	39.65	74.0	34.35	Peak	238.00	400	Vertical	Pass
1**	1495.200	32.19	54.0	21.81	AV	238.00	400	Vertical	Pass
2	4390.600	50.15	74.0	23.85	Peak	145.00	400	Vertical	Pass
2**	4390.600	41.14	54.0	12.86	AV	145.00	400	Vertical	Pass
3	5828.400	98.70	--	--	Peak	169.00	200	Vertical	N/A
3**	5828.400	91.28	--	--	AV	169.00	200	Vertical	N/A
4	7449.650	50.61	74.0	23.39	Peak	328.00	400	Vertical	Pass
4**	7449.650	41.13	54.0	12.87	AV	328.00	400	Vertical	Pass
5	11833.450	51.89	74.0	22.11	Peak	346.00	150	Vertical	Pass
5**	11833.450	42.83	54.0	11.17	AV	346.00	150	Vertical	Pass
6	16189.275	54.28	74.0	19.72	Peak	114.00	300	Vertical	Pass
6**	16189.275	44.12	54.0	9.88	AV	114.00	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	1604.400	38.73	74.0	35.27	Peak	123.00	400	Horizontal	Pass
1**	1604.400	28.60	54.0	25.40	AV	123.00	400	Horizontal	Pass
2	4308.000	49.87	74.0	24.13	Peak	279.00	400	Horizontal	Pass
2**	4308.000	40.14	54.0	13.86	AV	279.00	400	Horizontal	Pass
3	5752.800	105.15	--	--	Peak	0.00	150	Horizontal	N/A
3**	5752.800	97.06	--	--	AV	0.00	150	Horizontal	N/A
4	7495.363	49.58	74.0	24.42	Peak	161.00	100	Horizontal	Pass
4**	7495.363	41.22	54.0	12.78	AV	161.00	100	Horizontal	Pass
5	11937.526	51.63	74.0	22.37	Peak	360.00	200	Horizontal	Pass
5**	11937.526	42.17	54.0	11.83	AV	360.00	200	Horizontal	Pass
6	15536.700	54.13	74.0	19.87	Peak	329.00	400	Horizontal	Pass
6**	15536.700	44.62	54.0	9.38	AV	329.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.900	41.56	74.0	32.44	Peak	239.00	200	Vertical	Pass
1**	1497.900	28.94	54.0	25.06	AV	239.00	200	Vertical	Pass
2	4188.000	50.10	74.0	23.90	Peak	131.00	100	Vertical	Pass
2**	4188.000	40.02	54.0	13.98	AV	131.00	100	Vertical	Pass
3	5758.400	92.71	--	--	Peak	142.00	200	Vertical	N/A
3**	5758.400	85.91	--	--	AV	142.00	200	Vertical	N/A
4	7508.300	50.08	74.0	23.92	Peak	347.00	400	Vertical	Pass
4**	7508.300	40.65	54.0	13.35	AV	347.00	400	Vertical	Pass
5	12389.188	52.21	74.0	21.79	Peak	330.00	100	Vertical	Pass
5**	12389.188	42.09	54.0	11.91	AV	330.00	100	Vertical	Pass
6	15524.100	54.58	74.0	19.42	Peak	248.00	300	Vertical	Pass
6**	15524.100	44.73	54.0	9.27	AV	248.00	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	1494.900	38.33	74.0	35.67	Peak	188.00	300	Horizontal	Pass
1**	1494.900	29.34	54.0	24.66	AV	188.00	300	Horizontal	Pass
2	4201.400	49.90	74.0	24.10	Peak	335.00	200	Horizontal	Pass
2**	4201.400	40.66	54.0	13.34	AV	335.00	200	Horizontal	Pass
3	5793.000	103.53	--	--	Peak	360.00	150	Horizontal	N/A
3**	5793.000	95.16	--	--	AV	360.00	150	Horizontal	N/A
4	7333.500	50.01	74.0	23.99	Peak	228.00	400	Horizontal	Pass
4**	7333.500	40.87	54.0	13.13	AV	228.00	400	Horizontal	Pass
5	11336.937	51.47	74.0	22.53	Peak	262.00	150	Horizontal	Pass
5**	11336.937	42.56	54.0	11.44	AV	262.00	150	Horizontal	Pass
6	16095.037	54.59	74.0	19.41	Peak	134.00	400	Horizontal	Pass
6**	16095.037	45.11	54.0	8.89	AV	134.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.500	39.87	74.0	34.13	Peak	241.00	400	Vertical	Pass
1**	1495.500	29.25	54.0	24.75	AV	241.00	400	Vertical	Pass
2	3973.400	50.55	74.0	23.45	Peak	211.00	100	Vertical	Pass
2**	3973.400	39.82	54.0	14.18	AV	211.00	100	Vertical	Pass
3	5810.000	92.72	--	--	Peak	177.00	150	Vertical	N/A
3**	5810.000	84.82	--	--	AV	177.00	150	Vertical	N/A
4	7501.112	50.40	74.0	23.60	Peak	88.00	100	Vertical	Pass
4**	7501.112	41.01	54.0	12.99	AV	88.00	100	Vertical	Pass
5	10915.174	51.61	74.0	22.39	Peak	54.00	150	Vertical	Pass
5**	10915.174	42.10	54.0	11.90	AV	54.00	150	Vertical	Pass
6	15811.013	54.26	74.0	19.74	Peak	270.00	400	Vertical	Pass
6**	15811.013	45.68	54.0	8.32	AV	270.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1545.500	39.42	74.0	34.58	Peak	213.00	300	Horizontal	Pass
1**	1545.500	29.44	54.0	24.56	AV	213.00	300	Horizontal	Pass
2	4184.200	50.81	74.0	23.19	Peak	326.00	300	Horizontal	Pass
2**	4184.200	40.83	54.0	13.17	AV	326.00	300	Horizontal	Pass
3	5748.000	108.54	--	--	Peak	0.00	200	Horizontal	N/A
3**	5748.000	99.71	--	--	AV	0.00	200	Horizontal	N/A
4	7445.913	50.05	74.0	23.95	Peak	171.00	100	Horizontal	Pass
4**	7445.913	40.97	54.0	13.03	AV	171.00	100	Horizontal	Pass
5	11202.675	52.35	74.0	21.65	Peak	293.00	150	Horizontal	Pass
5**	11202.675	42.12	54.0	11.88	AV	293.00	150	Horizontal	Pass
6	16102.651	54.88	74.0	19.12	Peak	38.00	400	Horizontal	Pass
6**	16102.651	44.87	54.0	9.13	AV	38.00	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	1586.200	39.55	74.0	34.45	Peak	181.00	300	Vertical	Pass
1**	1586.200	29.92	54.0	24.08	AV	181.00	300	Vertical	Pass
2	4379.600	50.25	74.0	23.75	Peak	360.00	100	Vertical	Pass
2**	4379.600	41.56	54.0	12.44	AV	360.00	100	Vertical	Pass
3	5739.400	96.99	--	--	Peak	142.00	200	Vertical	N/A
3**	5739.400	89.18	--	--	AV	142.00	200	Vertical	N/A
4	7502.263	50.38	74.0	23.62	Peak	139.00	300	Vertical	Pass
4**	7502.263	41.28	54.0	12.72	AV	139.00	300	Vertical	Pass
5	11328.026	51.77	74.0	22.23	Peak	174.00	200	Vertical	Pass
5**	11328.026	42.38	54.0	11.62	AV	174.00	200	Vertical	Pass
6	16095.563	54.83	74.0	19.17	Peak	21.00	200	Vertical	Pass
6**	16095.563	45.00	54.0	9.00	AV	21.00	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	1489.800	39.09	74.0	34.91	Peak	226.00	200	Horizontal	Pass
1**	1489.800	30.03	54.0	23.97	AV	226.00	200	Horizontal	Pass
2	4316.800	50.17	74.0	23.83	Peak	231.00	300	Horizontal	Pass
2**	4316.800	40.19	54.0	13.81	AV	231.00	300	Horizontal	Pass
3	5788.000	107.76	--	--	Peak	10.00	150	Horizontal	N/A
3**	5788.000	99.42	--	--	AV	10.00	150	Horizontal	N/A
4	7455.975	50.11	74.0	23.89	Peak	136.00	300	Horizontal	Pass
4**	7455.975	40.46	54.0	13.54	AV	136.00	300	Horizontal	Pass
5	10920.637	52.01	74.0	21.99	Peak	326.00	100	Horizontal	Pass
5**	10920.637	43.09	54.0	10.91	AV	326.00	100	Horizontal	Pass
6	15826.237	55.09	74.0	18.91	Peak	159.00	100	Horizontal	Pass
6**	15826.237	46.93	54.0	7.07	AV	159.00	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	1495.800	40.43	74.0	33.57	Peak	255.00	400	Vertical	Pass
1**	1495.800	31.73	54.0	22.27	AV	255.00	400	Vertical	Pass
2	4202.000	50.77	74.0	23.23	Peak	11.00	200	Vertical	Pass
2**	4202.000	41.34	54.0	12.66	AV	11.00	200	Vertical	Pass
3	5787.800	96.18	--	--	Peak	150.00	200	Vertical	N/A
3**	5787.800	88.28	--	--	AV	150.00	200	Vertical	N/A
4	7439.587	49.96	74.0	24.04	Peak	68.00	400	Vertical	Pass
4**	7439.587	40.62	54.0	13.38	AV	68.00	400	Vertical	Pass
5	11897.850	52.07	74.0	21.93	Peak	85.00	150	Vertical	Pass
5**	11897.850	43.19	54.0	10.81	AV	85.00	150	Vertical	Pass
6	15973.238	54.93	74.0	19.07	Peak	269.00	150	Vertical	Pass
6**	15973.238	44.53	54.0	9.47	AV	269.00	150	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	1539.500	38.72	74.0	35.28	Peak	12.00	400	Horizontal	Pass
1**	1539.500	28.91	54.0	25.09	AV	12.00	400	Horizontal	Pass
2	4290.400	49.93	74.0	24.07	Peak	186.00	200	Horizontal	Pass
2**	4290.400	40.08	54.0	13.92	AV	186.00	200	Horizontal	Pass
3	5830.200	108.60	--	--	Peak	356.00	100	Horizontal	N/A
3**	5830.200	101.47	--	--	AV	356.00	100	Horizontal	N/A
4	7619.562	50.47	74.0	23.53	Peak	58.00	200	Horizontal	Pass
4**	7619.562	40.60	54.0	13.40	AV	58.00	200	Horizontal	Pass
5	12289.138	52.33	74.0	21.67	Peak	347.00	100	Horizontal	Pass
5**	12289.138	43.03	54.0	10.97	AV	347.00	100	Horizontal	Pass
6	15972.712	55.10	74.0	18.90	Peak	289.00	400	Horizontal	Pass
6**	15972.712	44.88	54.0	9.12	AV	289.00	400	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	1500.000	39.72	74.0	34.28	Peak	24.00	100	Vertical	Pass
1**	1500.000	29.14	54.0	24.86	AV	24.00	100	Vertical	Pass
2	4265.200	49.96	74.0	24.04	Peak	42.00	400	Vertical	Pass
2**	4265.200	40.68	54.0	13.32	AV	42.00	400	Vertical	Pass
3	5827.400	98.54	--	--	Peak	175.00	100	Vertical	N/A
3**	5827.400	91.02	--	--	AV	175.00	100	Vertical	N/A
4	7433.263	49.90	74.0	24.10	Peak	38.00	300	Vertical	Pass
4**	7433.263	40.87	54.0	13.13	AV	38.00	300	Vertical	Pass
5	11940.112	52.06	74.0	21.94	Peak	276.00	200	Vertical	Pass
5**	11940.112	42.92	54.0	11.08	AV	276.00	200	Vertical	Pass
6	16094.250	55.07	74.0	18.93	Peak	133.00	400	Vertical	Pass
6**	16094.250	45.64	54.0	8.36	AV	133.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1490.300	38.96	74.0	35.04	Peak	156.00	300	Horizontal	Pass
1**	1490.300	30.45	54.0	23.55	AV	156.00	300	Horizontal	Pass
2	4072.400	49.96	74.0	24.04	Peak	30.00	100	Horizontal	Pass
2**	4072.400	41.60	54.0	12.40	AV	30.00	100	Horizontal	Pass
3	5752.600	105.55	--	--	Peak	359.00	100	Horizontal	N/A
3**	5752.600	97.84	--	--	AV	359.00	100	Horizontal	N/A
4	7338.962	49.51	74.0	24.49	Peak	146.00	100	Horizontal	Pass
4**	7338.962	40.61	54.0	13.39	AV	146.00	100	Horizontal	Pass
5	11331.474	51.65	74.0	22.35	Peak	146.00	100	Horizontal	Pass
5**	11331.474	42.38	54.0	11.62	AV	146.00	100	Horizontal	Pass
6	15512.025	54.66	74.0	19.34	Peak	152.00	200	Horizontal	Pass
6**	15512.025	44.70	54.0	9.30	AV	152.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.100	42.36	74.0	31.64	Peak	248.00	200	Vertical	Pass
1**	1497.100	29.18	54.0	24.82	AV	248.00	200	Vertical	Pass
2	4314.600	49.78	74.0	24.22	Peak	304.00	100	Vertical	Pass
2**	4314.600	40.60	54.0	13.40	AV	304.00	100	Vertical	Pass
3	5752.800	94.20	--	--	Peak	145.00	150	Vertical	N/A
3**	5752.800	86.44	--	--	AV	145.00	150	Vertical	N/A
4	7449.937	50.01	74.0	23.99	Peak	244.00	200	Vertical	Pass
4**	7449.937	41.53	54.0	12.47	AV	244.00	200	Vertical	Pass
5	12666.912	51.72	74.0	22.28	Peak	347.00	100	Vertical	Pass
5**	12666.912	40.88	54.0	13.12	AV	347.00	100	Vertical	Pass
6	15819.938	54.31	74.0	19.69	Peak	115.00	300	Vertical	Pass
6**	15819.938	45.23	54.0	8.77	AV	115.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1622.700	39.40	74.0	34.60	Peak	172.00	400	Horizontal	Pass
1**	1622.700	29.32	54.0	24.68	AV	172.00	400	Horizontal	Pass
2	4389.000	50.68	74.0	23.32	Peak	64.00	100	Horizontal	Pass
2**	4389.000	40.83	54.0	13.17	AV	64.00	100	Horizontal	Pass
3	5792.800	104.94	--	--	Peak	8.00	200	Horizontal	N/A
3**	5792.800	97.43	--	--	AV	8.00	200	Horizontal	N/A
4	7548.837	49.69	74.0	24.31	Peak	41.00	200	Horizontal	Pass
4**	7548.837	40.79	54.0	13.21	AV	41.00	200	Horizontal	Pass
5	11888.075	51.80	74.0	22.20	Peak	143.00	150	Horizontal	Pass
5**	11888.075	41.95	54.0	12.05	AV	143.00	150	Horizontal	Pass
6	15576.337	55.27	74.0	18.73	Peak	173.00	400	Horizontal	Pass
6**	15576.337	44.15	54.0	9.85	AV	173.00	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	1493.200	40.59	74.0	33.41	Peak	105.00	200	Vertical	Pass
1**	1493.200	28.75	54.0	25.25	AV	105.00	200	Vertical	Pass
2	3989.400	50.89	74.0	23.11	Peak	168.00	100	Vertical	Pass
2**	3989.400	39.99	54.0	14.01	AV	168.00	100	Vertical	Pass
3	5799.000	93.94	--	--	Peak	145.00	150	Vertical	N/A
3**	5799.000	85.73	--	--	AV	145.00	150	Vertical	N/A
4	7454.825	51.33	74.0	22.67	Peak	40.00	400	Vertical	Pass
4**	7454.825	40.98	54.0	13.02	AV	40.00	400	Vertical	Pass
5	11783.137	51.85	74.0	22.15	Peak	126.00	150	Vertical	Pass
5**	11783.137	42.40	54.0	11.60	AV	126.00	150	Vertical	Pass
6	15564.000	54.78	74.0	19.22	Peak	289.00	400	Vertical	Pass
6**	15564.000	45.07	54.0	8.93	AV	289.00	400	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	1516.400	38.80	74.0	35.20	Peak	158.00	400	Horizontal	Pass
1**	1516.400	28.73	54.0	25.27	AV	158.00	400	Horizontal	Pass
2	4344.000	49.92	74.0	24.08	Peak	252.00	200	Horizontal	Pass
2**	4344.000	40.70	54.0	13.30	AV	252.00	200	Horizontal	Pass
3	5766.000	102.54	--	--	Peak	0.00	200	Horizontal	N/A
3**	5766.000	95.42	--	--	AV	0.00	200	Horizontal	N/A
4	7466.900	50.14	74.0	23.86	Peak	93.00	100	Horizontal	Pass
4**	7466.900	40.89	54.0	13.11	AV	93.00	100	Horizontal	Pass
5	11827.412	51.72	74.0	22.28	Peak	194.00	150	Horizontal	Pass
5**	11827.412	42.53	54.0	11.47	AV	194.00	150	Horizontal	Pass
6	15642.225	53.65	74.0	20.35	Peak	56.00	200	Horizontal	Pass
6**	15642.225	44.67	54.0	9.33	AV	56.00	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	1496.500	41.97	74.0	32.03	Peak	237.00	400	Vertical	Pass
1**	1496.500	29.58	54.0	24.42	AV	237.00	400	Vertical	Pass
2	4020.000	49.74	74.0	24.26	Peak	359.00	300	Vertical	Pass
2**	4020.000	40.53	54.0	13.47	AV	359.00	300	Vertical	Pass
3	5782.000	90.97	--	--	Peak	144.00	100	Vertical	N/A
3**	5782.000	82.77	--	--	AV	144.00	100	Vertical	N/A
4	7503.125	49.88	74.0	24.12	Peak	41.00	400	Vertical	Pass
4**	7503.125	40.84	54.0	13.16	AV	41.00	400	Vertical	Pass
5	11832.300	52.61	74.0	21.39	Peak	262.00	100	Vertical	Pass
5**	11832.300	42.29	54.0	11.71	AV	262.00	100	Vertical	Pass
6	15998.175	55.12	74.0	18.88	Peak	330.00	100	Vertical	Pass
6**	15998.175	44.59	54.0	9.41	AV	330.00	100	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
	802.11ac(VHT80)	Middle	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
	802.11ac(VHT80)	Middle	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass

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

SISO-ANT0

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	5131.475	58.52	74.0	15.48	Peak	1.00	200	Horizontal	Pass
1**	5131.475	45.95	54.0	8.05	AV	1.00	200	Horizontal	Pass
2	5150.000	55.68	74.0	18.32	Peak	299.00	100	Horizontal	Pass
2**	5150.000	46.23	54.0	7.77	AV	299.00	100	Horizontal	Pass

U-NII-1 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.71	74.0	18.29	Peak	0.00	150	Horizontal	Pass
1**	5350.000	45.83	54.0	8.17	AV	0.00	150	Horizontal	Pass
2	5422.435	58.47	74.0	15.53	Peak	360.00	200	Horizontal	Pass
2**	5422.435	46.75	54.0	7.25	AV	360.00	200	Horizontal	Pass

U-NII-1 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5076.225	57.12	74.0	16.88	Peak	299.00	150	Horizontal	Pass
1**	5076.225	45.76	54.0	8.24	AV	299.00	150	Horizontal	Pass
2	5150.000	55.38	74.0	18.62	Peak	286.00	200	Horizontal	Pass
2**	5150.000	46.27	54.0	7.73	AV	286.00	200	Horizontal	Pass

U-NII-1 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.88	74.0	18.12	Peak	155.00	150	Horizontal	Pass
1**	5350.000	45.86	54.0	8.14	AV	155.00	150	Horizontal	Pass
2	5444.215	58.25	74.0	15.75	Peak	62.00	100	Horizontal	Pass
2**	5444.215	45.81	54.0	8.19	AV	62.00	100	Horizontal	Pass

U-NII-1 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5142.525	58.18	74.0	15.82	Peak	13.00	150	Horizontal	Pass
1**	5142.525	46.55	54.0	7.45	AV	13.00	150	Horizontal	Pass
2	5150.000	55.87	74.0	18.13	Peak	291.00	100	Horizontal	Pass
2**	5150.000	46.11	54.0	7.89	AV	291.00	100	Horizontal	Pass

U-NII-1 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.81	74.0	18.19	Peak	202.00	100	Horizontal	Pass
1**	5350.000	45.91	54.0	8.09	AV	202.00	100	Horizontal	Pass
2	5421.995	57.87	74.0	16.13	Peak	360.00	200	Horizontal	Pass
2**	5421.995	46.05	54.0	7.95	AV	360.00	200	Horizontal	Pass

U-NII-1 11ac20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5142.850	58.36	74.0	15.64	Peak	340.00	150	Horizontal	Pass
1**	5142.850	46.86	54.0	7.14	AV	340.00	150	Horizontal	Pass
2	5150.000	57.09	74.0	16.91	Peak	360.00	150	Horizontal	Pass
2**	5150.000	46.68	54.0	7.32	AV	360.00	150	Horizontal	Pass

U-NII-1 11ac20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.59	74.0	18.41	Peak	342.00	100	Horizontal	Pass
1**	5350.055	46.11	54.0	7.89	AV	342.00	100	Horizontal	Pass
2	5451.970	57.97	74.0	16.03	Peak	7.00	200	Horizontal	Pass
2**	5451.970	45.97	54.0	8.03	AV	7.00	200	Horizontal	Pass

U-NII-1 11ac40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5142.850	58.36	74.0	15.64	Peak	340.00	150	Horizontal	Pass
1**	5142.850	46.86	54.0	7.14	AV	340.00	150	Horizontal	Pass
2	5150.000	57.09	74.0	16.91	Peak	360.00	150	Horizontal	Pass
2**	5150.000	46.68	54.0	7.32	AV	360.00	150	Horizontal	Pass

U-NII-1 11ac40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.91	74.0	18.09	Peak	63.00	150	Horizontal	Pass
1**	5350.000	45.84	54.0	8.16	AV	63.00	150	Horizontal	Pass
2	5384.540	57.98	74.0	16.02	Peak	346.00	100	Horizontal	Pass
2**	5384.540	45.91	54.0	8.09	AV	346.00	100	Horizontal	Pass

U-NII-1 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5144.150	57.60	74.0	16.40	Peak	20.00	200	Horizontal	Pass
1**	5144.150	46.17	54.0	7.83	AV	20.00	200	Horizontal	Pass
2	5150.000	56.24	74.0	17.76	Peak	177.00	200	Horizontal	Pass
2**	5150.000	45.99	54.0	8.01	AV	177.00	200	Horizontal	Pass

U-NII-1 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.055	55.18	74.0	18.82	Peak	321.00	150	Horizontal	Pass
1**	5350.055	45.78	54.0	8.22	AV	321.00	150	Horizontal	Pass
2	5356.050	57.86	74.0	16.14	Peak	83.00	100	Horizontal	Pass
2**	5356.050	45.67	54.0	8.33	AV	83.00	100	Horizontal	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	5137.975	57.29	74.0	16.71	Peak	342.00	200	Horizontal	Pass
1**	5137.975	46.46	54.0	7.54	AV	342.00	200	Horizontal	Pass
2	5150.000	55.71	74.0	18.29	Peak	0.00	150	Horizontal	Pass
2**	5150.000	46.08	54.0	7.92	AV	0.00	150	Horizontal	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	5350.055	55.64	74.0	18.36	Peak	164.00	100	Horizontal	Pass
1**	5350.055	46.72	54.0	7.28	AV	164.00	100	Horizontal	Pass
2	5375.300	58.21	74.0	15.79	Peak	0.00	150	Horizontal	Pass
2**	5375.300	46.40	54.0	7.60	AV	0.00	150	Horizontal	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	5050.225	57.25	74.0	16.75	Peak	65.00	200	Horizontal	Pass
1**	5050.225	45.61	54.0	8.39	AV	65.00	200	Horizontal	Pass
2	5150.000	55.17	74.0	18.83	Peak	76.00	150	Horizontal	Pass
2**	5150.000	46.25	54.0	7.75	AV	76.00	150	Horizontal	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	57.12	74.0	16.88	Peak	341.00	150	Horizontal	Pass
1**	5350.000	46.34	54.0	7.66	AV	341.00	150	Horizontal	Pass
2	5420.565	57.85	74.0	16.15	Peak	353.00	100	Horizontal	Pass
2**	5420.565	46.58	54.0	7.42	AV	353.00	100	Horizontal	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	5102.550	57.37	74.0	16.63	Peak	226.00	100	Horizontal	Pass
1**	5102.550	45.96	54.0	8.04	AV	226.00	100	Horizontal	Pass
2	5150.000	55.47	74.0	18.53	Peak	40.00	200	Horizontal	Pass
2**	5150.000	46.24	54.0	7.76	AV	40.00	200	Horizontal	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	5350.055	59.79	74.0	14.21	Peak	6.00	100	Horizontal	Pass
1**	5350.055	46.61	54.0	7.39	AV	6.00	100	Horizontal	Pass
2	5351.650	60.12	74.0	13.88	Peak	360.00	150	Horizontal	Pass
2**	5351.650	46.72	54.0	7.28	AV	360.00	150	Horizontal	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	5054.775	57.58	74.0	16.42	Peak	279.00	150	Horizontal	Pass
1**	5054.775	45.50	54.0	8.50	AV	279.00	150	Horizontal	Pass
2	5150.000	55.99	74.0	18.01	Peak	360.00	200	Horizontal	Pass
2**	5150.000	46.39	54.0	7.61	AV	360.00	200	Horizontal	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	5350.055	56.59	74.0	17.41	Peak	357.00	100	Horizontal	Pass
1**	5350.055	46.51	54.0	7.49	AV	357.00	100	Horizontal	Pass
2	5373.045	58.22	74.0	15.78	Peak	18.00	150	Horizontal	Pass
2**	5373.045	46.78	54.0	7.22	AV	18.00	150	Horizontal	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	5087.600	57.17	74.0	16.83	Peak	312.00	150	Horizontal	Pass
1**	5087.600	46.16	54.0	7.84	AV	312.00	150	Horizontal	Pass
2	5150.000	55.30	74.0	18.70	Peak	56.00	100	Horizontal	Pass
2**	5150.000	46.26	54.0	7.74	AV	56.00	100	Horizontal	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	5350.055	60.72	74.0	13.28	Peak	0.00	150	Horizontal	Pass
1**	5350.055	47.08	54.0	6.92	AV	0.00	150	Horizontal	Pass
2	5352.310	62.29	74.0	11.71	Peak	359.00	150	Horizontal	Pass
2**	5352.310	47.14	54.0	6.86	AV	359.00	150	Horizontal	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	5139.600	57.09	74.0	16.91	Peak	67.00	200	Horizontal	Pass
1**	5139.600	45.95	54.0	8.05	AV	67.00	200	Horizontal	Pass
2	5150.000	55.85	74.0	18.15	Peak	147.00	200	Horizontal	Pass
2**	5150.000	45.87	54.0	8.13	AV	147.00	200	Horizontal	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	56.26	74.0	17.74	Peak	12.00	200	Horizontal	Pass
1**	5350.055	46.44	54.0	7.56	AV	12.00	200	Horizontal	Pass
2	5392.900	59.10	74.0	14.90	Peak	0.00	100	Horizontal	Pass
2**	5392.900	46.20	54.0	7.80	AV	0.00	100	Horizontal	Pass

U-NII-3 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5646.800	58.07	68.2	10.13	Peak	329.00	200	Horizontal	Pass
2	5650.000	56.60	68.2	11.60	Peak	38.00	150	Horizontal	Pass

U-NII-3 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.89	68.2	11.31	Peak	168.00	150	Horizontal	Pass
2	5928.800	59.04	68.2	9.16	Peak	355.00	100	Horizontal	Pass

U-NII-3 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5638.500	58.13	68.2	10.07	Peak	13.00	200	Horizontal	Pass
2	5650.000	56.84	68.2	11.36	Peak	345.00	100	Horizontal	Pass

U-NII-3 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.09	68.2	12.11	Peak	351.00	200	Horizontal	Pass
2	5931.500	59.37	68.2	8.83	Peak	141.00	200	Horizontal	Pass

U-NII-3 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5647.600	57.87	68.2	10.33	Peak	360.00	100	Horizontal	Pass
2	5650.000	55.90	68.2	12.30	Peak	249.00	150	Horizontal	Pass

U-NII-3 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.29	68.2	11.91	Peak	48.00	150	Horizontal	Pass
2	5928.250	59.01	68.2	9.19	Peak	341.00	200	Horizontal	Pass

U-NII-3 11ac20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5645.200	58.06	68.2	10.14	Peak	159.00	150	Horizontal	Pass
2	5650.000	55.89	68.2	12.31	Peak	28.00	150	Horizontal	Pass

U-NII-3 11ac20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	56.44	68.2	11.76	Peak	355.00	100	Horizontal	Pass
2	5934.400	58.95	68.2	9.25	Peak	334.00	200	Horizontal	Pass

U-NII-3 11ac40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5638.650	57.98	68.2	10.22	Peak	33.00	150	Horizontal	Pass
2	5650.000	55.98	68.2	12.22	Peak	208.00	200	Horizontal	Pass

U-NII-3 11ac40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	57.08	68.2	11.12	Peak	360.00	150	Horizontal	Pass
2	5941.850	58.63	68.2	9.57	Peak	52.00	200	Horizontal	Pass

U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5649.550	57.77	68.2	10.43	Peak	356.00	200	Horizontal	Pass
2	5650.000	57.17	68.2	11.03	Peak	177.00	100	Horizontal	Pass

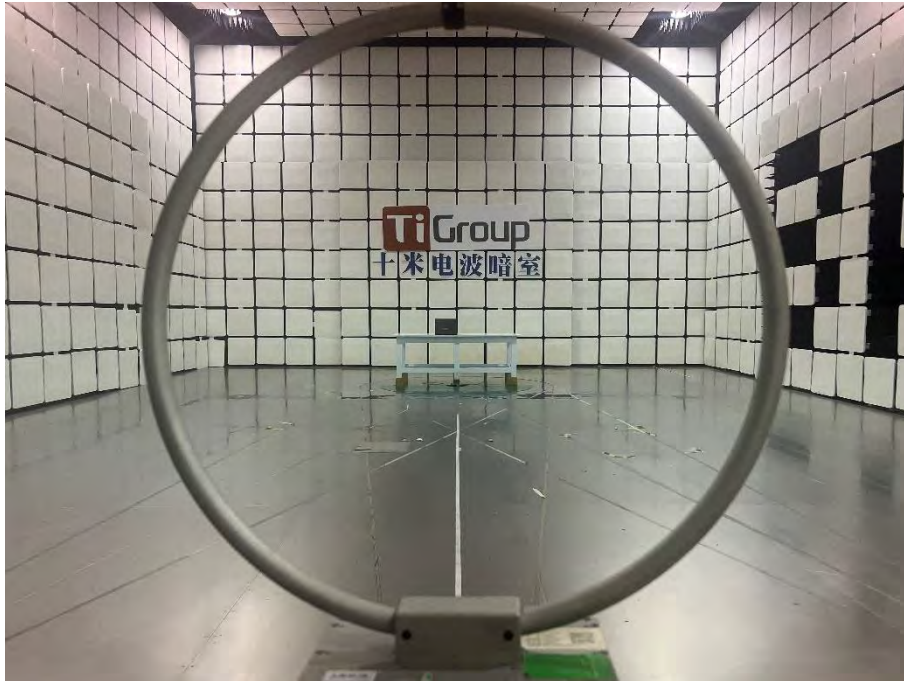
U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.950	55.44	68.2	12.76	Peak	197.00	200	Horizontal	Pass
2	5929.350	59.62	68.2	8.58	Peak	286.00	150	Horizontal	Pass

ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

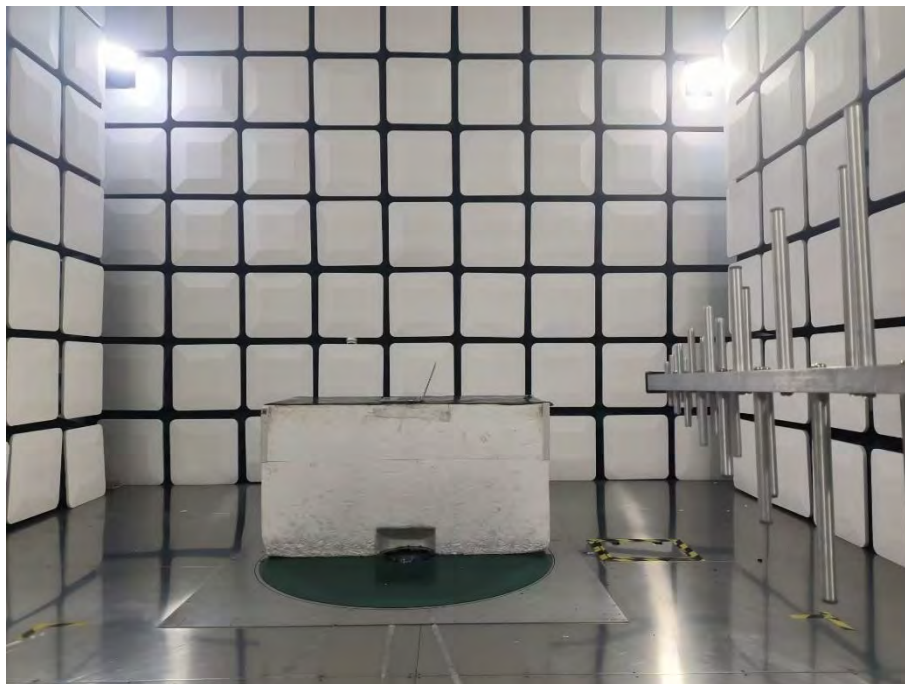
Below 30MHz



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

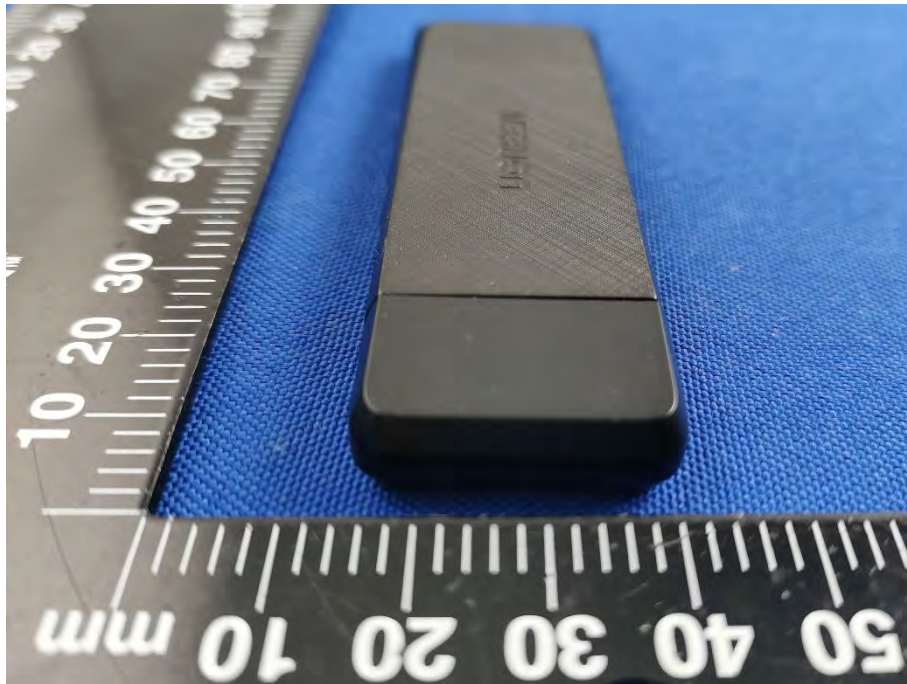
FRONT VIEW OF EUT



REAR VIEW OF EUT



LEFT VIEW OF EUT



LEFT VIEW OF EUT



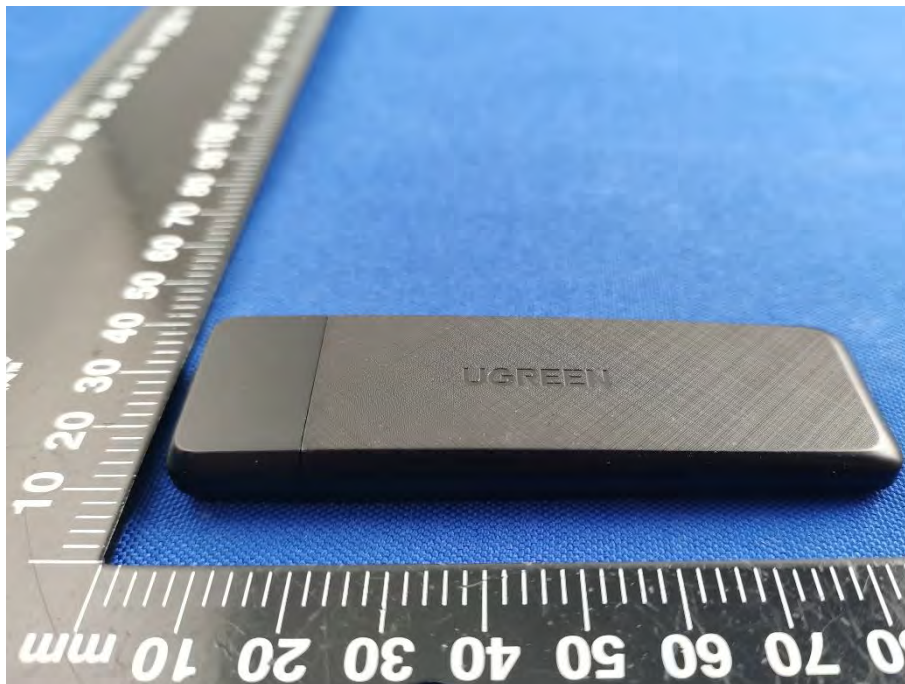
RIGHT VIEW OF EUT



TOP VIEW OF EUT

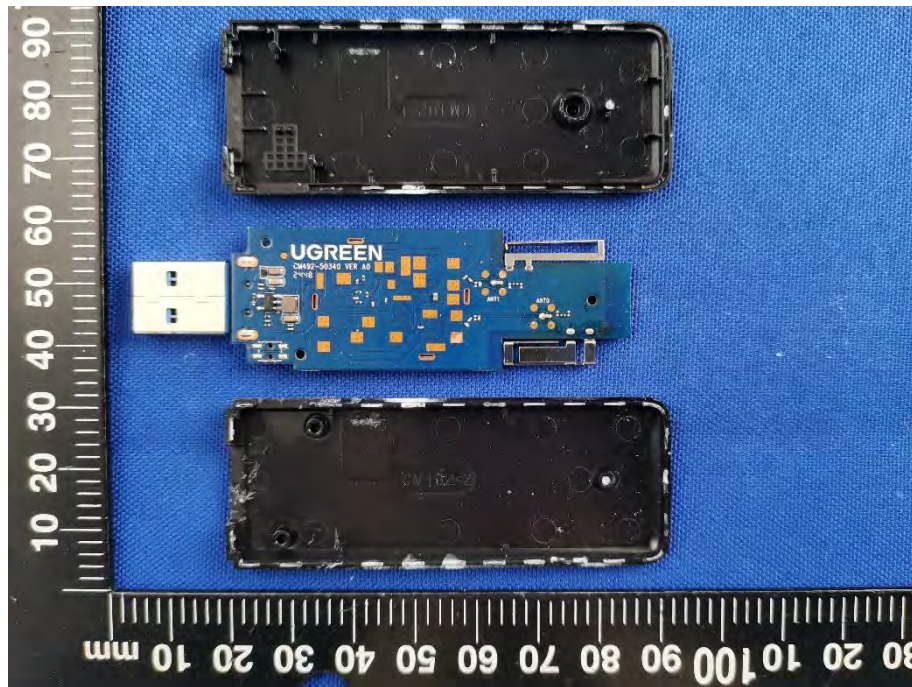


BOTTOM VIEW OF EUT

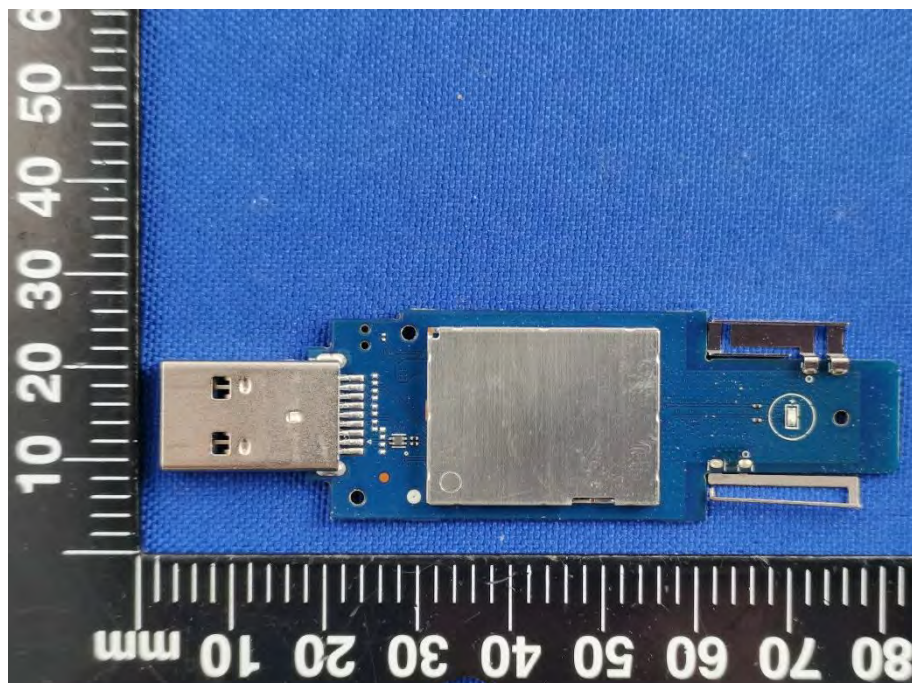


ANNEX C EUT INTERNAL PHOTOS

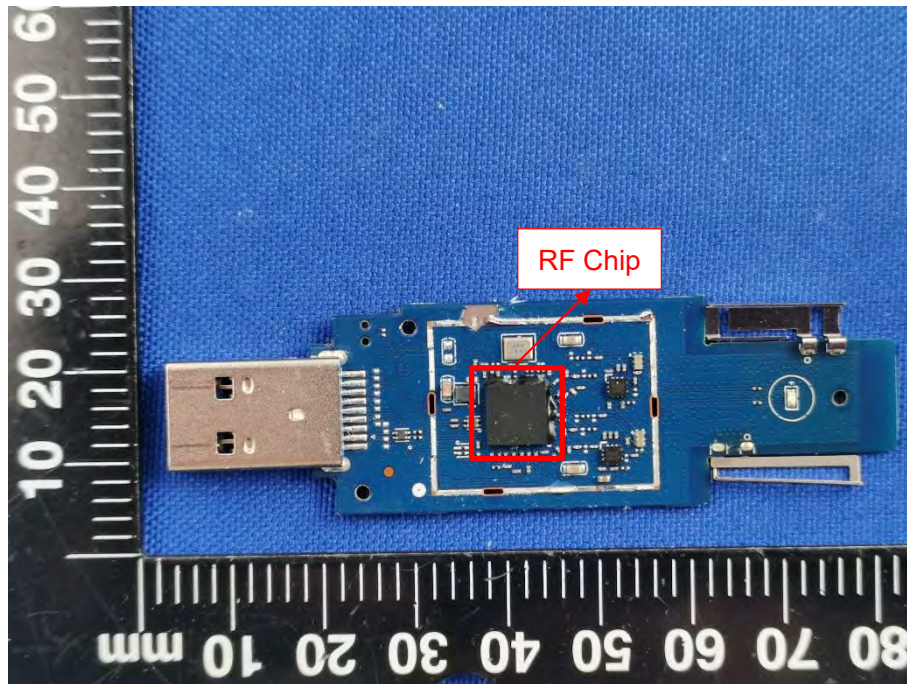
EUT UNCOVER VIEW 1



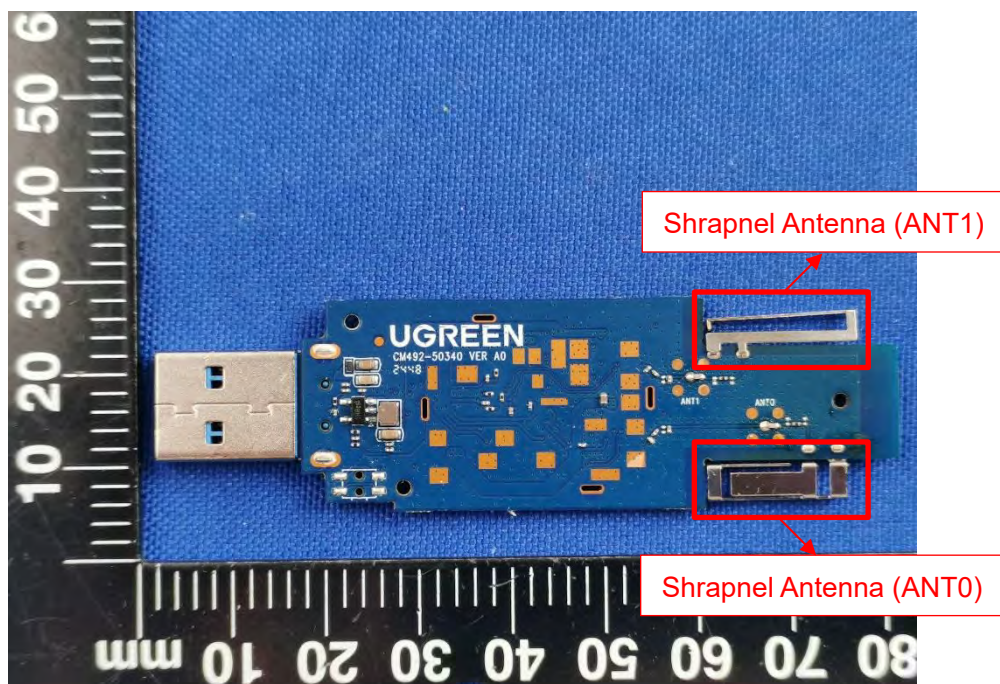
MAIN BOARD TOP VIEW (WITH SHIELDING)



MAIN BOARD TOP VIEW (WITHOUT SHIELDING)



MAIN BOARD REAR VIEW



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--END OF REPORT--