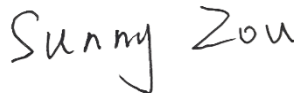


TEST REPORT

Applicant: MEIZU TECHNOLOGY CO., LTD.
Address: MEIZU Tech Bldg, Technology & Innovation Coast,
Zhuhai, 519085, Guangdong, China
Equipment Type: Mobile Phone
Model Name: M513H
Brand Name: MEIZU
FCC ID: 2ANQ6-M513H
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Feb. 27, 2025
Test Date: Feb. 27, 2025 - Mar. 11, 2025
Date of Issue: Apr. 18, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Li Ganming**Checked by:** Ye Hongji**Approved by:** Sunny Zou
(Technical Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 18, 2025</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☒ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	MEIZU TECHNOLOGY CO., LTD.
Address	MEIZU Tech Bldg, Technology & Innovation Coast, Zhuhai, 519085, Guangdong, China

2.2 Manufacturer Information

Manufacturer	MEIZU TECHNOLOGY CO., LTD.
Address	MEIZU Tech Bldg, Technology & Innovation Coast, Zhuhai, 519085, Guangdong, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	M513H
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	H900_MB_V1
Software Version	Android 15
Dimensions (Approx.)	165.2mm*75.5mm*8.35mm
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EDGE 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network LTE FDD Band 2/4/5/7/12/17/18/19/26/66 LTE TDD Band 38/41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n(HT20/40) and 802.11ac(VHT20/40/80) GPS, GLONASS, BDS, Galileo, NFC
-----------------------------------	--

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-2C: 5470 MHz to 5725 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: 6.54 mW U-NII-2A: 6.54 mW U-NII-2C: 6.31 mW U-NII-3: 6.74 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	PIFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: 1.02 dBi U-NII-2A: 5250 MHz to 5350 MHz: 1.02 dBi U-NII-2C: 5470 MHz to 5725 MHz: 1.02 dBi U-NII-3: 5725 MHz to 5850 MHz: 1.02 dBi
About the Product	The equipment is Mobile Phone, intended for used with information technology equipment.

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

2.5 Channel List

20 MHz		40 MHz		80 MHz	
Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	58	5290
44	5220	54	5270	106	5530
48	5240	62	5310	122	5610
52	5260	102	5510	155	5775
56	5280	110	5550		
60	5300	118	5590		
64	5320	126	5630		
100	5500	134	5670		
104	5520	151	5755		
108	5540	159	5795		
112	5560				
116	5580				
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				
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-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
100	Low	5500	149	Low	5745
116	Mid	5580	157	Mid	5785
140	High	5700	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-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
102	Low	5510	151	Low	5755
118	Mid	5590	159	High	5795
134	High	5670			

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-2C (5470 - 5725 MHz)			U-NII-3 (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
106	Low	5530	155	Mid	5775
122	High	5610	--	--	--

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-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	140/116/100	165/157/149
	11n(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11n(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(20 MHz)	6.5		48/44/36	64/60/52	140/116/100	165/157/149
	11ac(40 MHz)	13.5		46/38	62/54	134/118/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	155
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	140/100	165/149
	11n(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11n(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(20 MHz)	6.5		48/36	64/52	140/100	165/149
	11ac(40 MHz)	13.5		46/38	62/54	134/102	159/151
	11ac(80 MHz)	29.3		42	58	122/106	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	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Test Verdict

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	49% to 59%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+22.1℃ to +24.0℃
Working Voltage of the EUT	NV (Normal Voltage)	3.85 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2024.05.08	2025.05.07
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	2460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2026.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.06
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.04.15	2027.04.14
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2024.07.06	2026.07.05
Anechoic Chamber	RAINFORD	9m*6m*6m	101	2023.03.04	2026.03.03
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2024.08.01	2025.07.31
LISN	SCHWARZBECK	NSLK 8127	8127-687	2024.05.08	2025.05.07

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

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

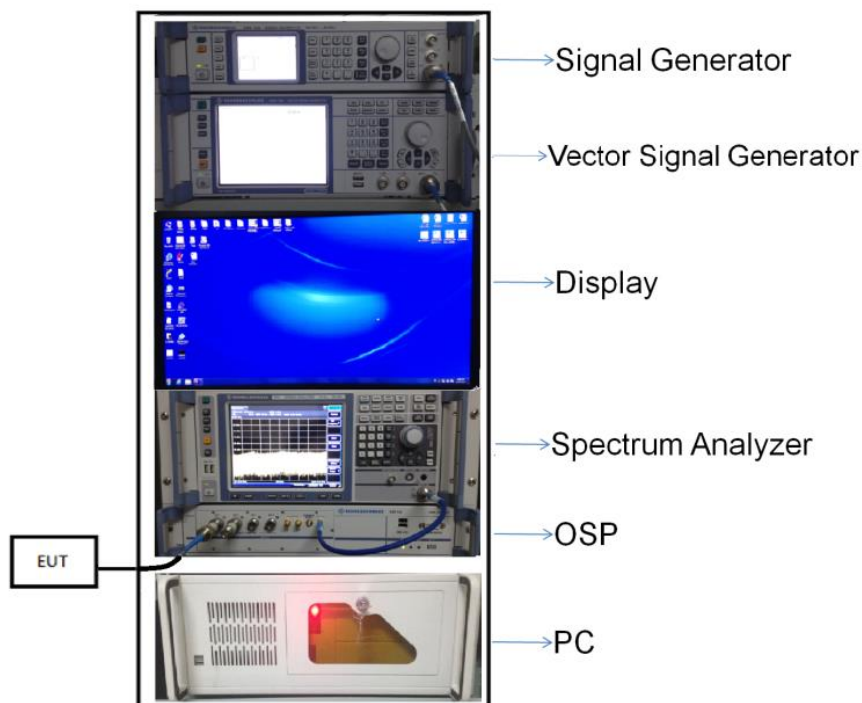
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

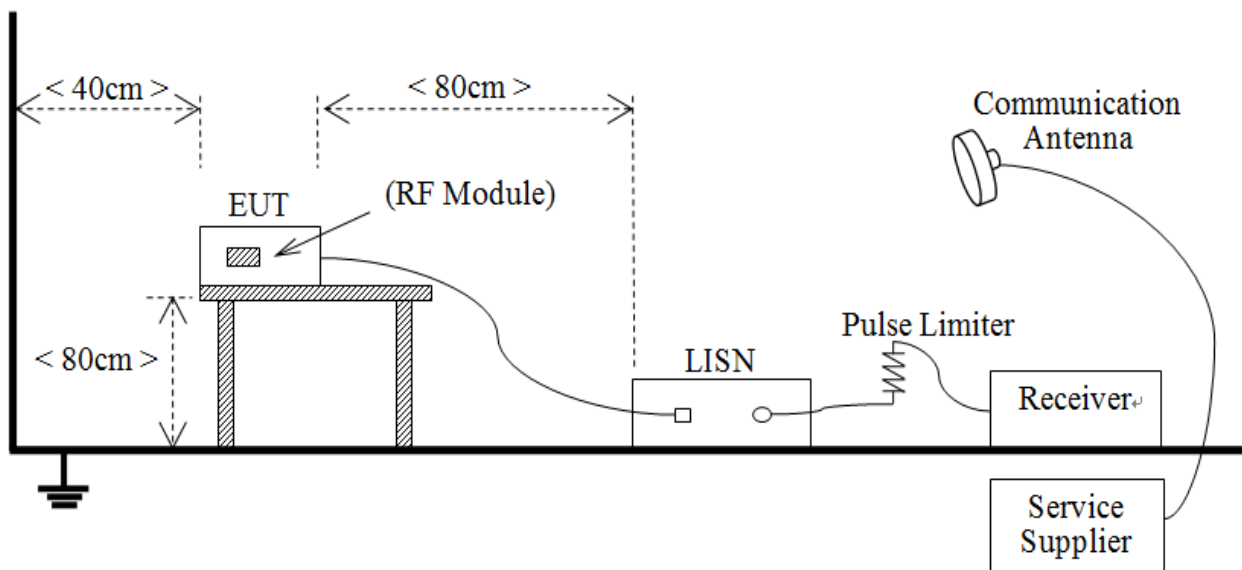
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



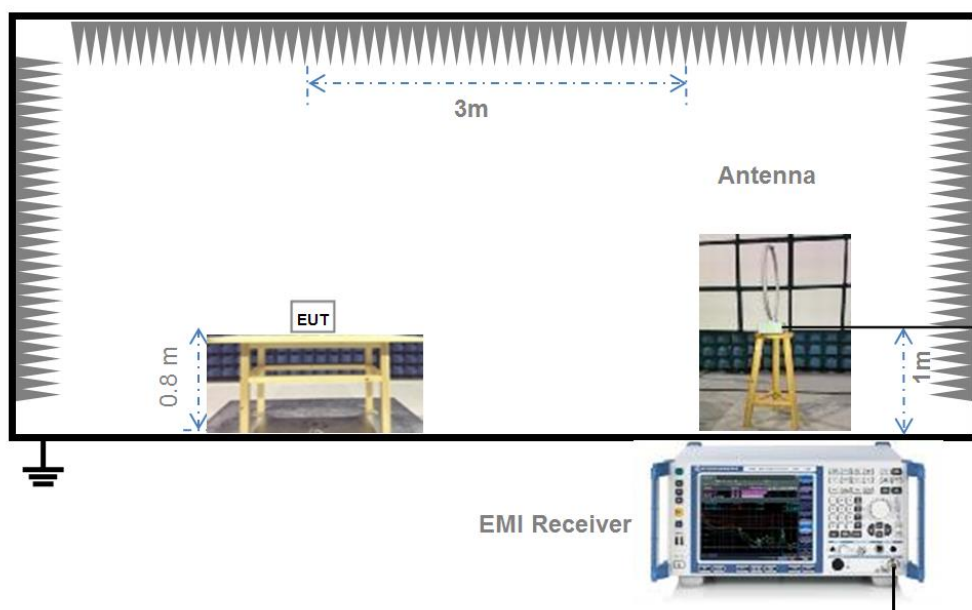
(Diagram 1)

4.5.2 For AC Power Supply Port Test



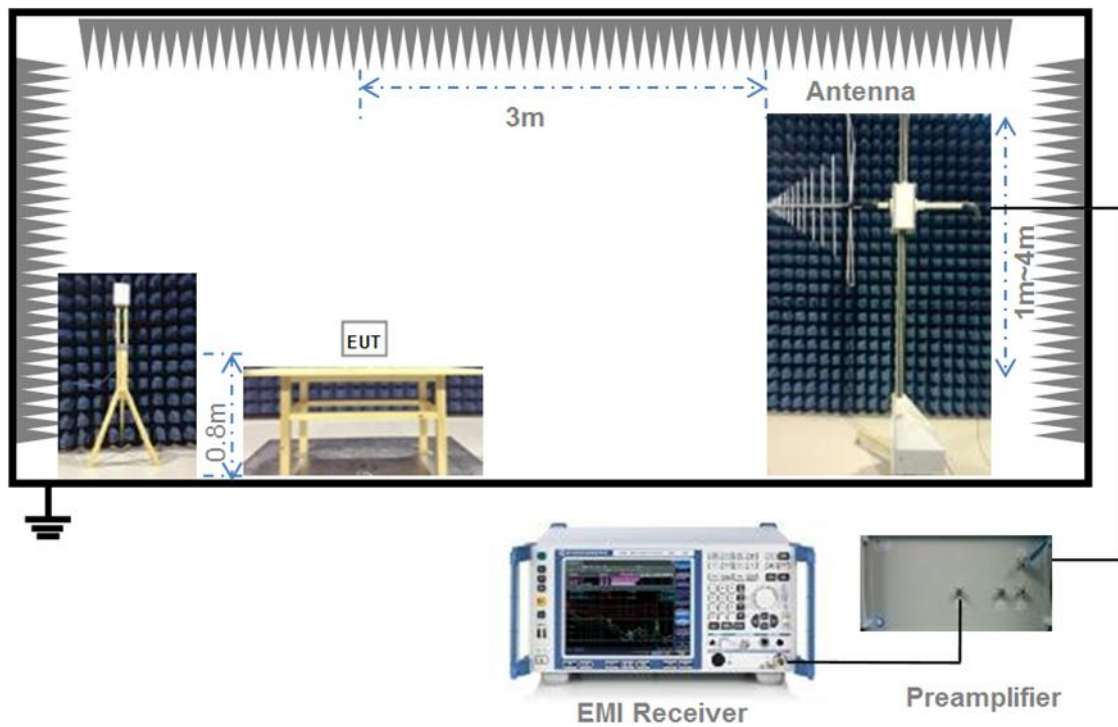
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



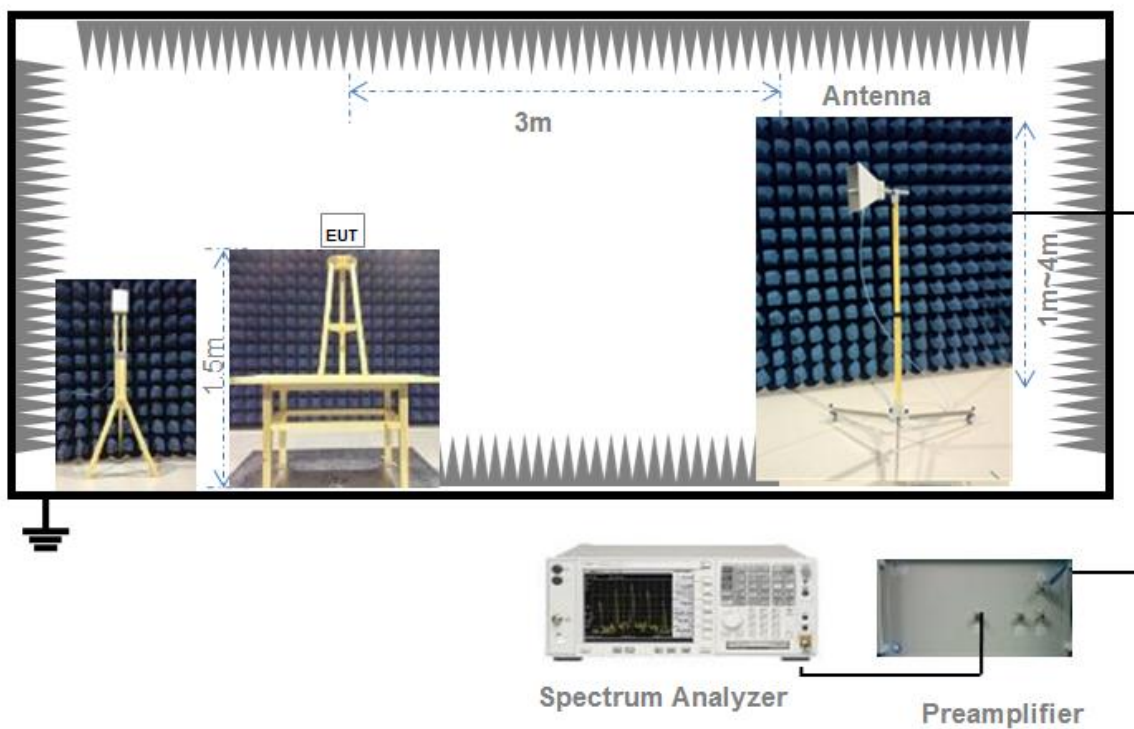
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

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

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

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

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

Measurements of duty cycle

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

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

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

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

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

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.1.4 Test Result

Please refer to ANNEX A.1.

5.2 Emission Bandwidth and 6 dB Bandwidth

5.2.1 Limit

FCC §15.407(a)

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

5.2.2 Test Setup

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

5.2.3 Test Procedure

Emission bandwidth

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

Occupied Bandwidth

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

6 dB bandwidth

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

5.2.4 Test Result

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

5.3 Power Spectral density (PSD)

5.3.1 Limit

FCC §15.407(a)

The maximum power spectral density should not exceed:

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

5.3.2 Test Setup

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

5.3.3 Test Procedure

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

1. Set RBW = 510 kHz/1 MHz, VBW $\geq 3 \times$ RBW, Sweep time = Auto, Detector = RMS.
2. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak marker function to determine the maximum amplitude level.
4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

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

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

5.4.2 Test Setup

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

5.4.3 Test Procedure

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

5.4.4 Test Result

Please refer to ANNEX A.5.

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

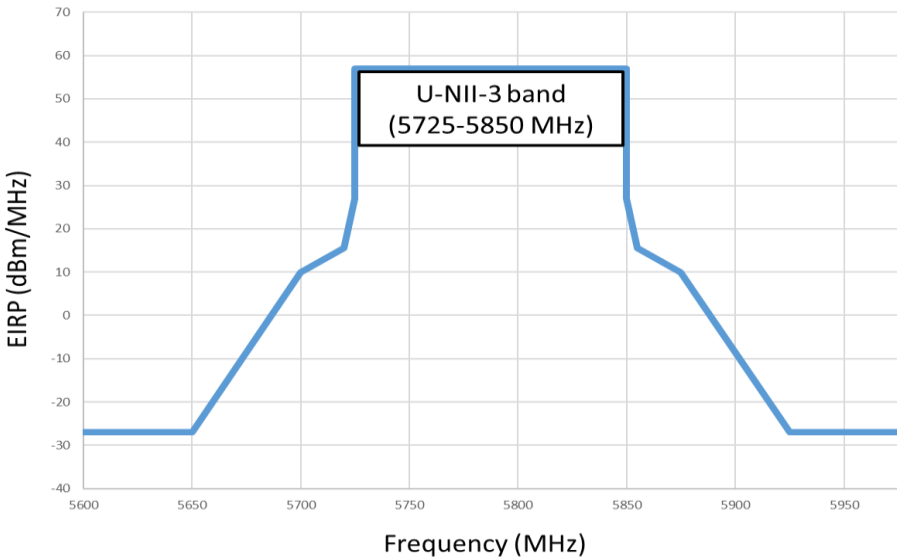
5.5.1 Limit

FCC §15.209 & 15.407(b)

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

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

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

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

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

5.5.2 Test Setup

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

5.5.3 Test Procedure

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

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

General Procedure for conducted measurements in restricted bands

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

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

where:

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

EIRP = equivalent isotropic radiated power in dBm

D = specified measurement distance in meters.

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

Quasi-Peak measurement procedure

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

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

emission limits using a peak detector.

Peak power measurement procedure

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

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

Table 1—RBW as a function of frequency

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

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

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

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

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

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

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

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

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

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

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

Determining the applicable transmit antenna gain

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

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

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

Radiated spurious emission test

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

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

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

The power of the EUT transmitting frequency should be ignored.

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

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.5.4 Test Result

Please refer to ANNEX A.6.

ANNEX A TEST RESULT

A.1 RF Output Power

Note 1: For FCC standard, if transmitting antennas of directional gain greater than 6 dBi are used, all band maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Duty Cycle

Test Mode	On Time (ms)	On+Off time (ms)	Duty Cycle
11a	1.39	1.42	97.40%
11n(HT20)	1.30	1.34	97.15%
11n(HT40)	0.65	0.68	94.23%
11ac(VHT20)	1.30	1.34	97.15%
11ac(VHT40)	0.65	0.68	94.23%
11ac(VHT80)	0.32	0.36	89.99%

Test Data

Conducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	8.12	6.49	250	Pass
11a	CH44	7.88	6.14	250	Pass
11a	CH48	8.07	6.42	250	Pass
11n(HT20)	CH36	8.07	6.41	250	Pass
11n(HT20)	CH44	7.97	6.26	250	Pass
11n(HT20)	CH48	8.05	6.38	250	Pass
11n(HT40)	CH38	8.16	6.54	250	Pass
11n(HT40)	CH46	8.07	6.41	250	Pass
11ac(VHT20)	CH36	8.07	6.41	250	Pass
11ac(VHT20)	CH44	7.95	6.23	250	Pass
11ac(VHT20)	CH48	8.07	6.41	250	Pass
11ac(VHT40)	CH38	8.14	6.51	250	Pass
11ac(VHT40)	CH46	8.09	6.44	250	Pass
11ac(VHT80)	CH42	7.94	6.22	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	8.15	6.54	250	Pass
11a	CH60	8.04	6.37	250	Pass
11a	CH64	7.88	6.14	250	Pass
11n(HT20)	CH52	8.01	6.32	250	Pass
11n(HT20)	CH60	7.92	6.19	250	Pass
11n(HT20)	CH64	7.74	5.94	250	Pass
11n(HT40)	CH54	8.09	6.44	250	Pass
11n(HT40)	CH62	7.96	6.25	250	Pass
11ac(VHT20)	CH52	8.00	6.30	250	Pass
11ac(VHT20)	CH60	7.91	6.17	250	Pass
11ac(VHT20)	CH64	7.75	5.95	250	Pass
11ac(VHT40)	CH54	8.08	6.51	250	Pass
11ac(VHT40)	CH62	7.96	6.44	250	Pass
11ac(VHT80)	CH58	7.91	6.18	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	7.86	6.12	250	Pass
11a	CH116	7.99	6.30	250	Pass
11a	CH140	7.98	6.29	250	Pass
11n(HT20)	CH100	7.85	6.09	250	Pass
11n(HT20)	CH116	7.87	6.12	250	Pass
11n(HT20)	CH140	7.90	6.16	250	Pass
11n(HT40)	CH102	7.88	6.13	250	Pass
11n(HT40)	CH118	8.00	6.31	250	Pass
11n(HT40)	CH134	7.97	6.26	250	Pass
11ac(VHT20)	CH100	7.85	6.09	250	Pass
11ac(VHT20)	CH116	7.87	6.12	250	Pass
11ac(VHT20)	CH140	7.87	6.12	250	Pass
11ac(VHT40)	CH102	7.89	6.37	250	Pass
11ac(VHT40)	CH118	8.00	6.14	250	Pass
11ac(VHT40)	CH134	7.98	6.28	250	Pass
11ac(VHT80)	CH106	7.74	5.94	250	Pass
11ac(VHT80)	CH122	7.86	6.11	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	8.16	6.55	1000	Pass
11a	CH157	8.23	6.66	1000	Pass
11a	CH165	8.21	6.63	1000	Pass
11n(HT20)	CH149	8.09	6.43	1000	Pass
11n(HT20)	CH157	8.13	6.49	1000	Pass
11n(HT20)	CH165	8.10	6.45	1000	Pass
11n(HT40)	CH151	8.29	6.74	1000	Pass
11n(HT40)	CH159	8.28	6.73	1000	Pass
11ac(VHT20)	CH149	8.10	6.45	1000	Pass
11ac(VHT20)	CH157	8.13	6.49	1000	Pass
11ac(VHT20)	CH165	8.02	6.33	1000	Pass
11ac(VHT40)	CH151	8.24	6.67	1000	Pass
11ac(VHT40)	CH159	8.24	6.67	1000	Pass
11ac(VHT80)	CH155	8.12	6.48	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Test plots please refer to the document "Annex No.: BL-S2520873-604 Data Part 1.pdf".

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	19.89	16.47
11a	CH44	19.99	16.49
11a	CH48	19.85	16.48
11n(HT20)	CH36	20.26	17.58
11n(HT20)	CH44	20.30	17.56
11n(HT20)	CH48	20.28	17.56
11n(HT40)	CH38	40.65	36.08
11n(HT40)	CH46	40.81	36.07
11ac(VHT20)	CH36	20.22	17.57
11ac(VHT20)	CH44	20.31	17.58
11ac(VHT20)	CH48	20.21	17.57
11ac(VHT40)	CH38	40.65	36.06
11ac(VHT40)	CH46	40.64	36.05
11ac(VHT80)	CH42	81.18	75.45

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	20.07	16.51
11a	CH60	20.05	16.51
11a	CH64	20.06	16.49
11n(HT20)	CH52	20.30	17.60
11n(HT20)	CH60	20.36	17.61
11n(HT20)	CH64	20.35	17.58
11n(HT40)	CH54	40.85	36.07
11n(HT40)	CH62	40.66	36.05
11ac(VHT20)	CH52	20.35	17.55
11ac(VHT20)	CH60	20.29	17.58
11ac(VHT20)	CH64	20.43	17.59
11ac(VHT40)	CH54	40.67	36.10
11ac(VHT40)	CH62	40.76	36.03
11ac(VHT80)	CH58	81.58	75.39

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	20.06	16.50
11a	CH116	20.01	16.50
11a	CH140	20.00	16.48
11n(HT20)	CH100	20.26	17.59
11n(HT20)	CH116	20.29	17.59
11n(HT20)	CH140	20.26	17.56
11n(HT40)	CH102	40.78	36.04
11n(HT40)	CH118	40.50	36.05
11n(HT40)	CH134	41.23	36.13
11ac(VHT20)	CH100	20.25	17.58
11ac(VHT20)	CH116	20.30	17.58
11ac(VHT20)	CH140	20.37	17.58
11ac(VHT40)	CH102	40.57	36.07
11ac(VHT40)	CH118	40.57	35.99
11ac(VHT40)	CH134	40.76	36.13
11ac(VHT80)	CH106	81.53	75.50
11ac(VHT80)	CH122	81.19	75.18

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	19.98	16.52
11a	CH157	20.03	16.49
11a	CH165	19.97	16.50
11n(HT20)	CH149	20.28	17.59
11n(HT20)	CH157	20.35	17.59
11n(HT20)	CH165	20.39	17.59
11n(HT40)	CH151	40.64	36.11
11n(HT40)	CH159	40.44	36.00
11ac(VHT20)	CH149	20.34	17.57
11ac(VHT20)	CH157	20.23	17.59
11ac(VHT20)	CH165	20.23	17.59
11ac(VHT40)	CH151	40.90	36.09
11ac(VHT40)	CH159	40.71	36.06
11ac(VHT80)	CH155	81.47	75.62

A.3 6 dB Bandwidth

Note: Test plots please refer to the document “Annex No.: BL-SZ2520873-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	15.40	500.00	Pass
11a	CH157	15.40	500.00	Pass
11a	CH165	15.60	500.00	Pass
11n(HT20)	CH149	15.40	500.00	Pass
11n(HT20)	CH157	15.60	500.00	Pass
11n(HT20)	CH165	15.30	500.00	Pass
11n(HT40)	CH151	35.30	500.00	Pass
11n(HT40)	CH159	35.30	500.00	Pass
11ac(VHT20)	CH149	15.30	500.00	Pass
11ac(VHT20)	CH157	15.60	500.00	Pass
11ac(VHT20)	CH165	15.30	500.00	Pass
11ac(VHT40)	CH151	35.40	500.00	Pass
11ac(VHT40)	CH159	35.30	500.00	Pass
11ac(VHT80)	CH155	75.30	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2520873-604 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH36	-2.63	11.00	Pass
11a	CH44	-2.52	11.00	Pass
11a	CH48	-2.35	11.00	Pass
11n(HT20)	CH36	-2.83	11.00	Pass
11n(HT20)	CH44	-2.73	11.00	Pass
11n(HT20)	CH48	-3.62	11.00	Pass
11n(HT40)	CH38	-5.61	11.00	Pass
11n(HT40)	CH46	-5.46	11.00	Pass
11ac(VHT20)	CH36	-4.82	11.00	Pass
11ac(VHT20)	CH44	-6.48	11.00	Pass
11ac(VHT20)	CH48	-4.98	11.00	Pass
11ac(VHT40)	CH38	-7.68	11.00	Pass
11ac(VHT40)	CH46	-7.76	11.00	Pass
11ac(VHT80)	CH42	-11.11	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH52	-4.74	11.00	Pass
11a	CH60	-5.09	11.00	Pass
11a	CH64	-5.47	11.00	Pass
11n(HT20)	CH52	-5.13	11.00	Pass
11n(HT20)	CH60	-5.48	11.00	Pass
11n(HT20)	CH64	-5.75	11.00	Pass
11n(HT40)	CH54	-0.45	11.00	Pass
11n(HT40)	CH62	-8.19	11.00	Pass
11ac(VHT20)	CH52	-4.95	11.00	Pass
11ac(VHT20)	CH60	-5.32	11.00	Pass
11ac(VHT20)	CH64	-5.70	11.00	Pass
11ac(VHT40)	CH54	-7.95	11.00	Pass
11ac(VHT40)	CH62	-8.26	11.00	Pass
11ac(VHT80)	CH58	-11.13	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
11a	CH100	-5.46	11.00	Pass
11a	CH116	-5.44	11.00	Pass
11a	CH140	-5.46	11.00	Pass
11n(HT20)	CH100	-5.81	11.00	Pass
11n(HT20)	CH116	-5.59	11.00	Pass
11n(HT20)	CH140	-5.69	11.00	Pass
11n(HT40)	CH102	-8.53	11.00	Pass
11n(HT40)	CH118	-8.04	11.00	Pass
11n(HT40)	CH134	-8.90	11.00	Pass
11ac(VHT20)	CH100	-5.60	11.00	Pass
11ac(VHT20)	CH116	-5.68	11.00	Pass
11ac(VHT20)	CH140	-5.75	11.00	Pass
11ac(VHT40)	CH102	-8.61	11.00	Pass
11ac(VHT40)	CH118	-8.07	11.00	Pass
11ac(VHT40)	CH134	-8.83	11.00	Pass
11ac(VHT80)	CH106	-11.90	11.00	Pass
11ac(VHT80)	CH122	-10.88	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH149	-6.78	30.00	Pass
11a	CH157	-6.59	30.00	Pass
11a	CH165	-6.15	30.00	Pass
11n(HT20)	CH149	-6.93	30.00	Pass
11n(HT20)	CH157	-6.83	30.00	Pass
11n(HT20)	CH165	-6.44	30.00	Pass
11n(HT40)	CH151	-9.99	30.00	Pass
11n(HT40)	CH159	-9.62	30.00	Pass
11ac(VHT20)	CH149	-6.93	30.00	Pass
11ac(VHT20)	CH157	-7.02	30.00	Pass
11ac(VHT20)	CH165	-6.50	30.00	Pass
11ac(VHT40)	CH151	-9.90	30.00	Pass
11ac(VHT40)	CH159	-9.52	30.00	Pass
11ac(VHT80)	CH155	-13.03	30.00	Pass

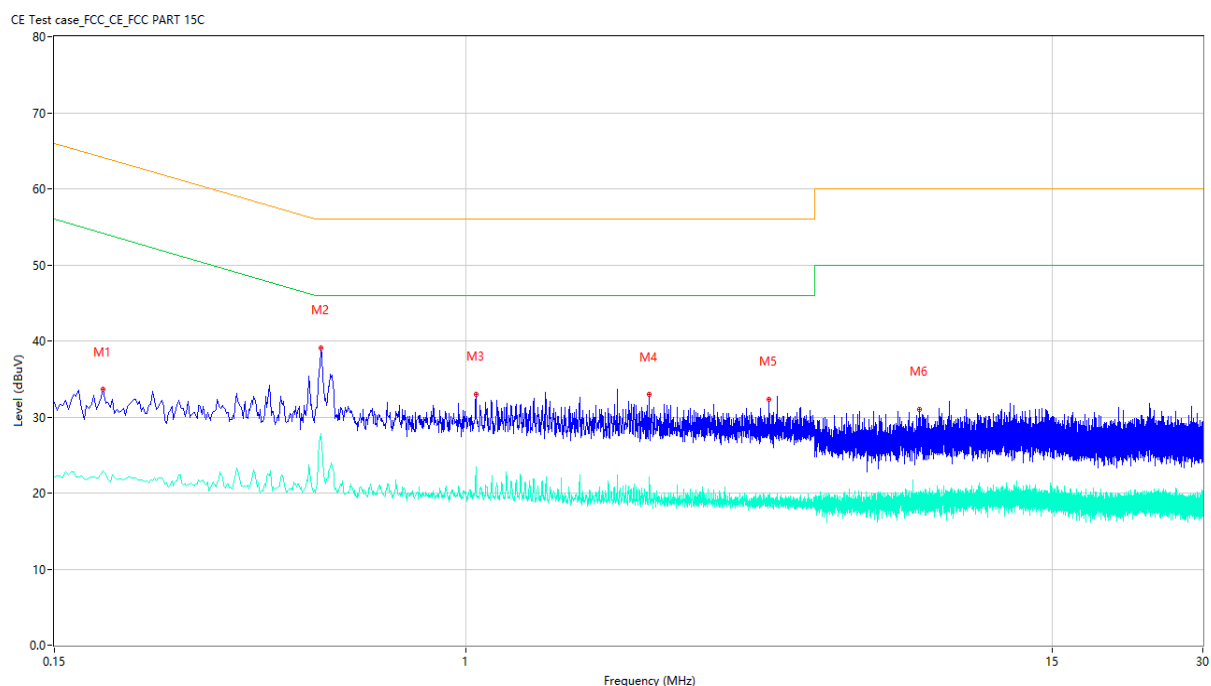
A.5 Conducted Emissions

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

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

Test Data and Plots

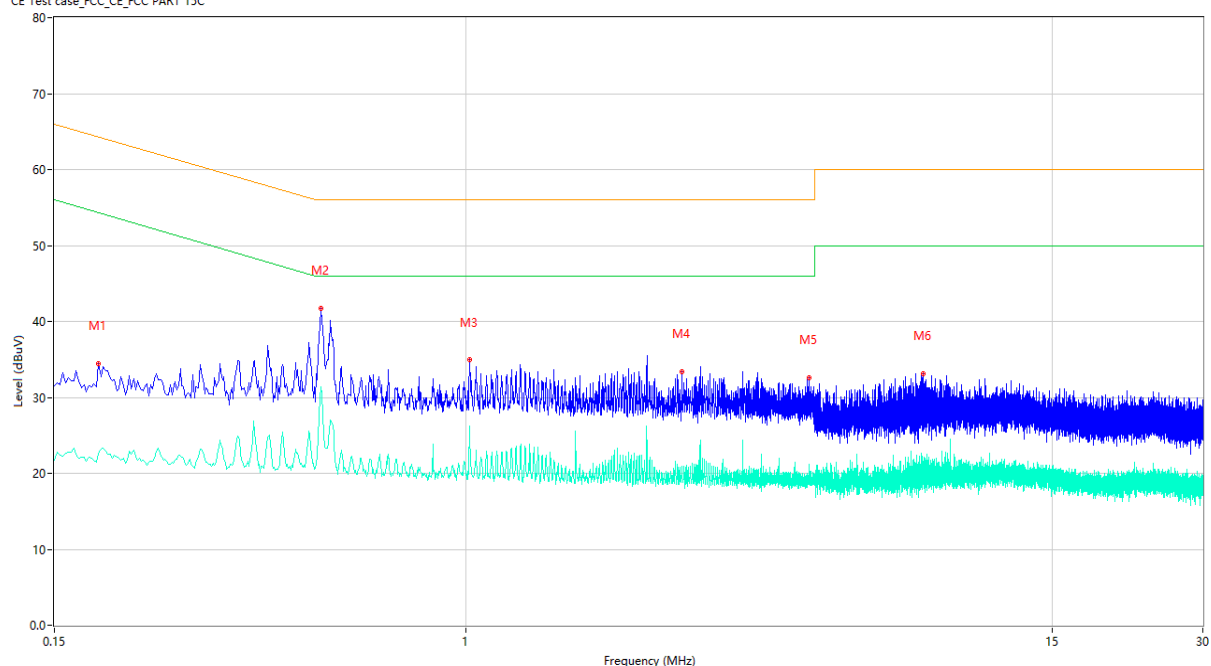
PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.188	33.60	9.75	64.12	30.52	Peak	L	Pass
1**	0.188	22.94	9.75	54.12	31.18	AV	L	Pass
2	0.514	39.06	9.74	56.00	16.94	Peak	L	Pass
2**	0.514	27.25	9.74	46.00	18.75	AV	L	Pass
3	1.050	32.97	9.70	56.00	23.03	Peak	L	Pass
3**	1.050	21.90	9.70	46.00	24.10	AV	L	Pass
4	2.334	32.92	9.68	56.00	23.08	Peak	L	Pass
4**	2.334	20.35	9.68	46.00	25.65	AV	L	Pass
5	4.052	32.30	9.66	56.00	23.70	Peak	L	Pass
5**	4.052	19.27	9.66	46.00	26.73	AV	L	Pass
6	8.102	31.03	9.55	60.00	28.97	Peak	L	Pass
6**	8.102	19.55	9.55	50.00	30.45	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	0.184	34.46	9.75	64.30	29.84	Peak	N	Pass
1**	0.184	22.67	9.75	54.30	31.63	AV	N	Pass
2	0.514	41.74	9.74	56.00	14.26	Peak	N	Pass
2**	0.514	31.42	9.74	46.00	14.58	AV	N	Pass
3	1.020	34.92	9.70	56.00	21.08	Peak	N	Pass
3**	1.020	24.73	9.70	46.00	21.27	AV	N	Pass
4	2.714	33.40	9.67	56.00	22.60	Peak	N	Pass
4**	2.714	20.61	9.67	46.00	25.39	AV	N	Pass
5	4.886	32.58	9.64	56.00	23.42	Peak	N	Pass
5**	4.886	21.18	9.64	46.00	24.82	AV	N	Pass
6	8.260	33.16	9.54	60.00	26.84	Peak	N	Pass
6**	8.260	20.11	9.54	50.00	29.89	AV	N	Pass

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

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

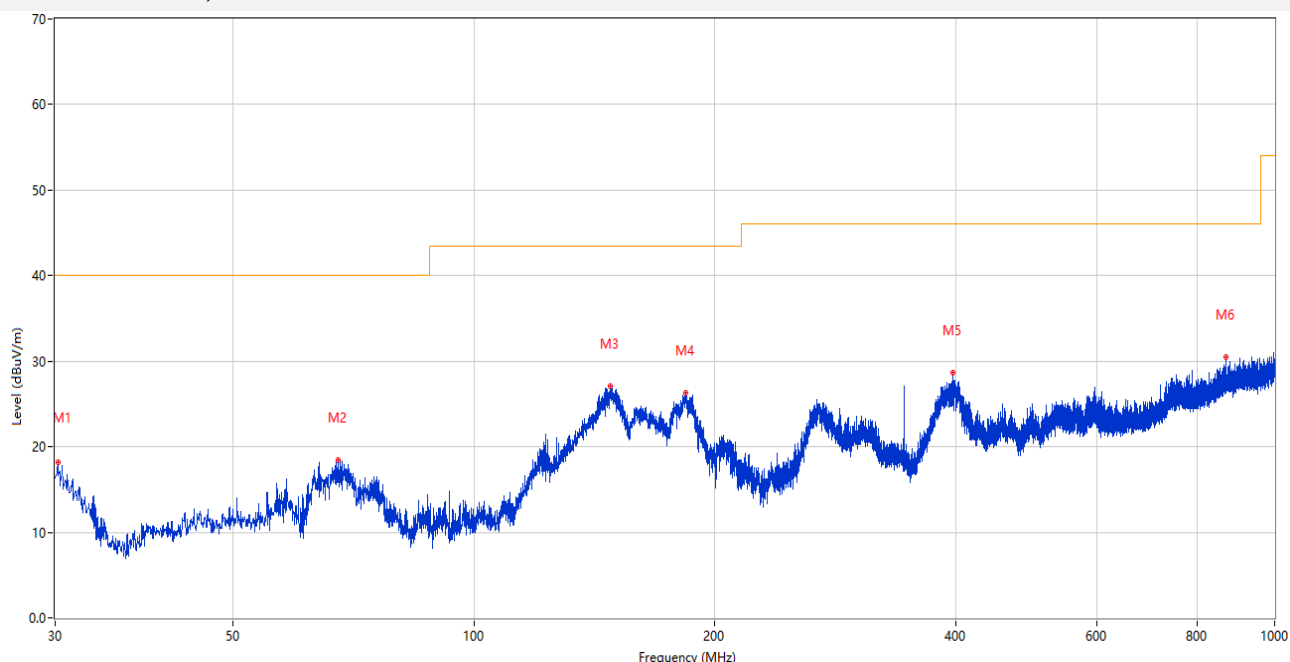
Note ²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

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

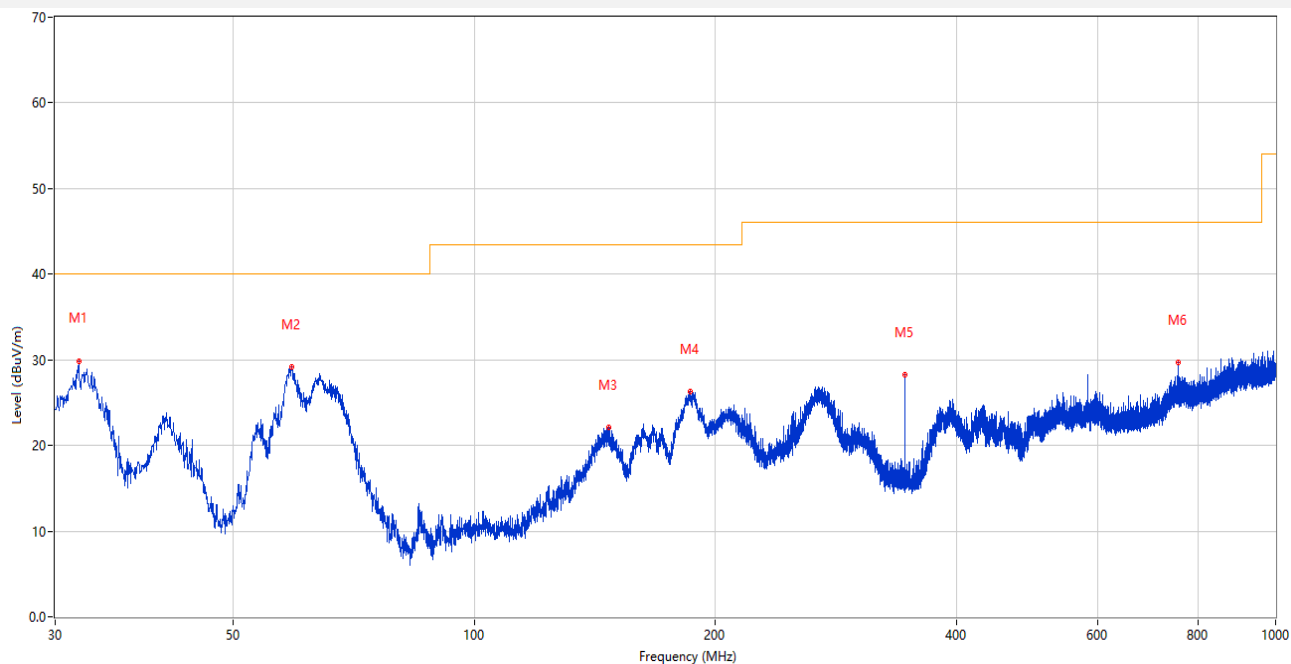
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.242	18.16	-28.93	40.0	21.84	Peak	321.00	100	Horizontal	Pass
2	67.685	18.41	-28.22	40.0	21.59	Peak	6.00	200	Horizontal	Pass
3	147.904	27.10	-29.62	43.5	16.40	Peak	141.00	100	Horizontal	Pass
4	183.745	26.24	-27.37	43.5	17.26	Peak	284.00	100	Horizontal	Pass
5	396.320	28.60	-20.49	46.0	17.40	Peak	78.00	200	Horizontal	Pass
6	868.856	30.46	-9.70	46.0	15.54	Peak	0.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	32.085	29.87	-28.75	40.0	10.13	Peak	360.00	100	Vertical	Pass
2	59.245	29.13	-25.86	40.0	10.87	Peak	360.00	100	Vertical	Pass
3	147.273	22.13	-29.58	43.5	21.37	Peak	120.00	200	Vertical	Pass
4	186.122	26.24	-26.99	43.5	17.26	Peak	101.00	200	Vertical	Pass
5	345.008	28.28	-21.51	46.0	17.72	Peak	253.00	200	Vertical	Pass
6	756.239	29.73	-11.93	46.0	16.27	Peak	316.00	100	Vertical	Pass

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1426.750	39.12	-15.96	74.0	34.88	Peak	106.00	150	Horizontal	Pass
1**	1426.750	27.49	-15.96	54.0	26.51	AV	106.00	150	Horizontal	Pass
2	2274.750	42.22	-12.86	74.0	31.78	Peak	263.00	150	Horizontal	Pass
2**	2274.750	30.26	-12.86	54.0	23.74	AV	263.00	150	Horizontal	Pass
3	3451.000	47.12	-4.97	74.0	26.88	Peak	41.00	150	Horizontal	Pass
3**	3451.000	36.17	-4.97	54.0	17.83	AV	41.00	150	Horizontal	Pass
4	5221.500	86.13	-2.37	74.0	-12.13	Peak	211.00	150	Horizontal	N/A
4**	5221.500	77.57	-2.37	54.0	-23.57	AV	211.00	150	Horizontal	N/A
5	7926.000	54.04	1.95	74.0	19.96	Peak	22.00	150	Horizontal	Pass
5**	7926.000	43.43	1.95	54.0	10.57	AV	22.00	150	Horizontal	Pass
6	10442.213	48.68	-3.30	74.0	25.32	Peak	239.00	150	Horizontal	Pass
6**	10442.213	38.81	-3.30	54.0	15.19	AV	239.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1391.750	38.47	-16.00	74.0	35.53	Peak	0.00	150	Vertical	Pass
1**	1391.750	27.75	-16.00	54.0	26.25	AV	0.00	150	Vertical	Pass
2	2118.500	41.37	-13.43	74.0	32.63	Peak	54.00	150	Vertical	Pass
2**	2118.500	30.63	-13.43	54.0	23.37	AV	54.00	150	Vertical	Pass
3	3410.500	47.22	-5.31	74.0	26.78	Peak	82.00	150	Vertical	Pass
3**	3410.500	36.17	-5.31	54.0	17.83	AV	82.00	150	Vertical	Pass
4	5220.000	84.41	-2.36	74.0	-10.41	Peak	230.00	150	Vertical	N/A
4**	5220.000	75.43	-2.36	54.0	-21.43	AV	230.00	150	Vertical	N/A
5	7872.500	54.37	1.78	74.0	19.63	Peak	360.00	150	Vertical	Pass
5**	7872.500	43.31	1.78	54.0	10.69	AV	360.00	150	Vertical	Pass
6	10440.787	47.92	-3.36	74.0	26.08	Peak	0.00	150	Vertical	Pass
6**	10440.787	38.70	-3.36	54.0	15.30	AV	0.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1166.250	39.96	-15.45	74.0	34.04	Peak	157.00	150	Horizontal	Pass
1**	1166.250	27.60	-15.45	54.0	26.40	AV	157.00	150	Horizontal	Pass
2	2552.750	42.71	-11.32	74.0	31.29	Peak	223.00	150	Horizontal	Pass
2**	2552.750	31.53	-11.32	54.0	22.47	AV	223.00	150	Horizontal	Pass
3	3415.500	47.21	-5.15	74.0	26.79	Peak	63.00	150	Horizontal	Pass
3**	3415.500	39.88	-5.15	54.0	14.12	AV	63.00	150	Horizontal	Pass
4	5221.000	85.50	-2.36	74.0	-11.50	Peak	211.00	150	Horizontal	N/A
4**	5221.000	76.49	-2.36	54.0	-22.49	AV	211.00	150	Horizontal	N/A
5	10437.937	49.51	-3.35	74.0	24.49	Peak	241.00	150	Horizontal	Pass
5**	10437.937	38.86	-3.35	54.0	15.14	AV	241.00	150	Horizontal	Pass
6	15877.950	49.72	-1.66	74.0	24.28	Peak	173.00	150	Horizontal	Pass
6**	15877.950	39.08	-1.66	54.0	14.92	AV	173.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1035.750	41.09	-15.35	74.0	32.91	Peak	182.00	150	Vertical	Pass
1**	1035.750	27.94	-15.35	54.0	26.06	AV	182.00	150	Vertical	Pass
2	2179.750	41.88	-12.92	74.0	32.12	Peak	103.00	150	Vertical	Pass
2**	2179.750	31.07	-12.92	54.0	22.93	AV	103.00	150	Vertical	Pass
3	3490.000	48.57	-5.84	74.0	25.43	Peak	160.00	150	Vertical	Pass
3**	3490.000	39.51	-5.84	54.0	14.49	AV	160.00	150	Vertical	Pass
4	5221.500	84.17	-2.37	74.0	-10.17	Peak	239.00	150	Vertical	N/A
4**	5221.500	76.40	-2.37	54.0	-22.40	AV	239.00	150	Vertical	N/A
5	10437.463	49.03	-3.32	74.0	24.97	Peak	0.00	150	Vertical	Pass
5**	10437.463	38.85	-3.32	54.0	15.15	AV	0.00	150	Vertical	Pass
6	15745.651	50.29	-2.19	74.0	23.71	Peak	0.00	150	Vertical	Pass
6**	15745.651	38.72	-2.19	54.0	15.28	AV	0.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1101.250	40.82	-15.73	74.0	33.18	Peak	152.00	150	Horizontal	Pass
1**	1101.250	27.19	-15.73	54.0	26.81	AV	152.00	150	Horizontal	Pass
2	2126.000	41.17	-13.30	74.0	32.83	Peak	59.00	150	Horizontal	Pass
2**	2126.000	30.46	-13.30	54.0	23.54	AV	59.00	150	Horizontal	Pass
3	3434.000	46.92	-5.17	74.0	27.08	Peak	294.00	150	Horizontal	Pass
3**	3434.000	36.09	-5.17	54.0	17.91	AV	294.00	150	Horizontal	Pass
4	5193.000	82.49	-2.32	74.0	-8.49	Peak	203.00	150	Horizontal	N/A
4**	5193.000	74.96	-2.32	54.0	-20.96	AV	203.00	150	Horizontal	N/A
5	11105.075	48.48	-3.90	74.0	25.52	Peak	264.00	150	Horizontal	Pass
5**	11105.075	37.39	-3.90	54.0	16.61	AV	264.00	150	Horizontal	Pass
6	15705.224	50.03	-1.84	74.0	23.97	Peak	108.00	150	Horizontal	Pass
6**	15705.224	39.09	-1.84	54.0	14.91	AV	108.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1047.750	40.88	-15.39	74.0	33.12	Peak	0.00	150	Vertical	Pass
1**	1047.750	27.77	-15.39	54.0	26.23	AV	0.00	150	Vertical	Pass
2	2118.000	41.54	-13.44	74.0	32.46	Peak	199.00	150	Vertical	Pass
2**	2118.000	30.67	-13.44	54.0	23.33	AV	199.00	150	Vertical	Pass
3	3415.500	47.64	-5.15	74.0	26.36	Peak	84.00	150	Vertical	Pass
3**	3415.500	38.67	-5.15	54.0	15.33	AV	84.00	150	Vertical	Pass
4	5188.000	80.15	-2.32	74.0	-6.15	Peak	241.00	150	Vertical	N/A
4**	5188.000	72.49	-2.32	54.0	-18.49	AV	241.00	150	Vertical	N/A
5	11431.162	48.60	-3.24	74.0	25.40	Peak	140.00	150	Vertical	Pass
5**	11431.162	37.44	-3.24	54.0	16.56	AV	140.00	150	Vertical	Pass
6	16846.312	50.95	-1.04	74.0	23.05	Peak	315.00	150	Vertical	Pass
6**	16846.312	39.77	-1.04	54.0	14.23	AV	315.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1050.500	40.06	-15.41	74.0	33.94	Peak	139.00	150	Horizontal	Pass
1**	1050.500	27.70	-15.41	54.0	26.30	AV	139.00	150	Horizontal	Pass
2	2187.000	41.92	-13.24	74.0	32.08	Peak	354.00	150	Horizontal	Pass
2**	2187.000	30.42	-13.24	54.0	23.58	AV	354.00	150	Horizontal	Pass
3	3407.000	47.39	-5.36	74.0	26.61	Peak	340.00	150	Horizontal	Pass
3**	3407.000	36.80	-5.36	54.0	17.20	AV	340.00	150	Horizontal	Pass
4	5214.000	79.19	-2.35	74.0	-5.19	Peak	203.00	150	Horizontal	N/A
4**	5214.000	70.81	-2.35	54.0	-16.81	AV	203.00	150	Horizontal	N/A
5	10197.826	48.02	-3.47	74.0	25.98	Peak	351.00	150	Horizontal	Pass
5**	10197.826	36.50	-3.47	54.0	17.50	AV	351.00	150	Horizontal	Pass
6	14717.963	49.71	-1.96	74.0	24.29	Peak	0.00	150	Horizontal	Pass
6**	14717.963	39.33	-1.96	54.0	14.67	AV	0.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1145.000	41.21	-15.62	74.0	32.79	Peak	354.00	150	Vertical	Pass
1**	1145.000	27.69	-15.62	54.0	26.31	AV	354.00	150	Vertical	Pass
2	2167.250	41.41	-13.09	74.0	32.59	Peak	295.00	150	Vertical	Pass
2**	2167.250	30.34	-13.09	54.0	23.66	AV	295.00	150	Vertical	Pass
3	3374.000	47.17	-4.80	74.0	26.83	Peak	25.00	150	Vertical	Pass
3**	3374.000	36.13	-4.80	54.0	17.87	AV	25.00	150	Vertical	Pass
4	5212.000	77.85	-2.36	74.0	-3.85	Peak	231.00	150	Vertical	N/A
4**	5212.000	69.83	-2.36	54.0	-15.83	AV	231.00	150	Vertical	N/A
5	10812.474	47.53	-3.09	74.0	26.47	Peak	96.00	150	Vertical	Pass
5**	10812.474	37.21	-3.09	54.0	16.79	AV	96.00	150	Vertical	Pass
6	16891.199	50.18	-0.45	74.0	23.82	Peak	48.00	150	Vertical	Pass
6**	16891.199	39.59	-0.45	54.0	14.41	AV	48.00	150	Vertical	Pass

11a, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.500	40.02	-15.25	74.0	33.98	Peak	264.00	150	Horizontal	Pass
1**	1062.500	27.83	-15.25	54.0	26.17	AV	264.00	150	Horizontal	Pass
2	2202.500	41.50	-13.34	74.0	32.50	Peak	269.00	150	Horizontal	Pass
2**	2202.500	30.67	-13.34	54.0	23.33	AV	269.00	150	Horizontal	Pass
3	3364.000	47.60	-5.28	74.0	26.40	Peak	43.00	150	Horizontal	Pass
3**	3364.000	36.53	-5.28	54.0	17.47	AV	43.00	150	Horizontal	Pass
4	5298.000	85.37	-2.04	74.0	-11.37	Peak	211.00	150	Horizontal	N/A
4**	5298.000	77.09	-2.04	54.0	-23.09	AV	211.00	150	Horizontal	N/A
5	10597.775	49.94	-3.65	74.0	24.06	Peak	240.00	150	Horizontal	Pass
5**	10597.775	40.17	-3.65	54.0	13.83	AV	240.00	150	Horizontal	Pass
6	17251.613	50.85	-0.65	74.0	23.15	Peak	345.00	150	Horizontal	Pass
6**	17251.613	39.36	-0.65	54.0	14.64	AV	345.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1065.000	41.46	-15.18	74.0	32.54	Peak	0.00	150	Vertical	Pass
1**	1065.000	28.15	-15.18	54.0	25.85	AV	0.00	150	Vertical	Pass
2	2062.500	41.47	-13.84	74.0	32.53	Peak	171.00	150	Vertical	Pass
2**	2062.500	29.87	-13.84	54.0	24.13	AV	171.00	150	Vertical	Pass
3	3363.500	47.51	-5.35	74.0	26.49	Peak	360.00	150	Vertical	Pass
3**	3363.500	36.68	-5.35	54.0	17.32	AV	360.00	150	Vertical	Pass
4	5298.000	83.39	-2.04	74.0	-9.39	Peak	230.00	150	Vertical	N/A
4**	5298.000	76.04	-2.04	54.0	-22.04	AV	230.00	150	Vertical	N/A
5	10600.625	50.07	-3.67	74.0	23.93	Peak	0.00	150	Vertical	Pass
5**	10600.625	40.89	-3.67	54.0	13.11	AV	0.00	150	Vertical	Pass
6	14598.525	49.54	-2.31	74.0	24.46	Peak	74.00	150	Vertical	Pass
6**	14598.525	38.88	-2.31	54.0	15.12	AV	74.00	150	Vertical	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1053.500	39.79	-15.44	74.0	34.21	Peak	141.00	150	Horizontal	Pass
1**	1053.500	27.61	-15.44	54.0	26.39	AV	141.00	150	Horizontal	Pass
2	2159.000	41.49	-13.38	74.0	32.51	Peak	117.00	150	Horizontal	Pass
2**	2159.000	30.72	-13.38	54.0	23.28	AV	117.00	150	Horizontal	Pass
3	3402.000	46.86	-5.58	74.0	27.14	Peak	139.00	150	Horizontal	Pass
3**	3402.000	36.55	-5.58	54.0	17.45	AV	139.00	150	Horizontal	Pass
4	5299.000	85.13	-2.01	74.0	-11.13	Peak	210.00	150	Horizontal	N/A
4**	5299.000	76.99	-2.01	54.0	-22.99	AV	210.00	150	Horizontal	N/A
5	10606.325	50.65	-3.64	74.0	23.35	Peak	239.00	150	Horizontal	Pass
5**	10606.325	39.06	-3.64	54.0	14.94	AV	239.00	150	Horizontal	Pass
6	14733.712	49.73	-1.74	74.0	24.27	Peak	144.00	150	Horizontal	Pass
6**	14733.712	39.15	-1.74	54.0	14.85	AV	144.00	150	Horizontal	Pass

11n20, U-NII-2A, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1061.500	41.06	-15.26	74.0	32.94	Peak	0.00	150	Vertical	Pass
1**	1061.500	27.72	-15.26	54.0	26.28	AV	0.00	150	Vertical	Pass
2	2250.750	41.60	-12.91	74.0	32.40	Peak	12.00	150	Vertical	Pass
2**	2250.750	30.69	-12.91	54.0	23.31	AV	12.00	150	Vertical	Pass
3	3436.000	47.35	-5.22	74.0	26.65	Peak	320.00	150	Vertical	Pass
3**	3436.000	36.12	-5.22	54.0	17.88	AV	320.00	150	Vertical	Pass
4	5298.500	83.30	-2.03	74.0	-9.30	Peak	252.00	150	Vertical	N/A
4**	5298.500	75.63	-2.03	54.0	-21.63	AV	252.00	150	Vertical	N/A
5	10601.099	50.10	-3.67	74.0	23.90	Peak	0.00	150	Vertical	Pass
5**	10601.099	39.91	-3.67	54.0	14.09	AV	0.00	150	Vertical	Pass
6	14849.738	49.91	-0.69	74.0	24.09	Peak	107.00	150	Vertical	Pass
6**	14849.738	38.71	-0.69	54.0	15.29	AV	107.00	150	Vertical	Pass

11n40, U-NII-2A, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1143.000	39.05	-15.59	74.0	34.95	Peak	62.00	150	Horizontal	Pass
1**	1143.000	27.75	-15.59	54.0	26.25	AV	62.00	150	Horizontal	Pass
2	2269.250	41.96	-13.14	74.0	32.04	Peak	325.00	150	Horizontal	Pass
2**	2269.250	30.22	-13.14	54.0	23.78	AV	325.00	150	Horizontal	Pass
3	3402.000	46.98	-5.58	74.0	27.02	Peak	117.00	150	Horizontal	Pass
3**	3402.000	36.36	-5.58	54.0	17.64	AV	117.00	150	Horizontal	Pass
4	5268.000	81.77	-2.42	74.0	-7.77	Peak	204.00	150	Horizontal	N/A
4**	5268.000	73.78	-2.42	54.0	-19.78	AV	204.00	150	Horizontal	N/A
5	10538.162	48.70	-3.17	74.0	25.30	Peak	216.00	150	Horizontal	Pass
5**	10538.162	39.00	-3.17	54.0	15.00	AV	216.00	150	Horizontal	Pass
6	17252.401	51.08	-0.72	74.0	22.92	Peak	143.00	150	Horizontal	Pass
6**	17252.401	39.76	-0.72	54.0	14.24	AV	143.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1062.750	41.74	-15.24	74.0	32.26	Peak	357.00	150	Vertical	Pass
1**	1062.750	28.28	-15.24	54.0	25.72	AV	357.00	150	Vertical	Pass
2	2440.500	42.57	-12.38	74.0	31.43	Peak	108.00	150	Vertical	Pass
2**	2440.500	31.15	-12.38	54.0	22.85	AV	108.00	150	Vertical	Pass
3	3402.500	47.09	-5.56	74.0	26.91	Peak	360.00	150	Vertical	Pass
3**	3402.500	36.20	-5.56	54.0	17.80	AV	360.00	150	Vertical	Pass
4	5272.000	80.27	-2.42	74.0	-6.27	Peak	233.00	150	Vertical	N/A
4**	5272.000	73.31	-2.42	54.0	-19.31	AV	233.00	150	Vertical	N/A
5	10554.075	48.50	-3.30	74.0	25.50	Peak	360.00	150	Vertical	Pass
5**	10554.075	38.32	-3.30	54.0	15.68	AV	360.00	150	Vertical	Pass
6	15221.437	49.99	-1.87	74.0	24.01	Peak	77.00	150	Vertical	Pass
6**	15221.437	38.87	-1.87	54.0	15.13	AV	77.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1134.000	40.37	-15.56	74.0	33.63	Peak	153.00	150	Horizontal	Pass
1**	1134.000	27.73	-15.56	54.0	26.27	AV	153.00	150	Horizontal	Pass
2	2247.000	42.39	-12.84	74.0	31.61	Peak	1.00	150	Horizontal	Pass
2**	2247.000	30.62	-12.84	54.0	23.38	AV	1.00	150	Horizontal	Pass
3	3437.500	47.46	-5.29	74.0	26.54	Peak	360.00	150	Horizontal	Pass
3**	3437.500	35.95	-5.29	54.0	18.05	AV	360.00	150	Horizontal	Pass
4	5283.000	79.68	-2.20	74.0	-5.68	Peak	214.00	150	Horizontal	N/A
4**	5283.000	70.26	-2.20	54.0	-16.26	AV	214.00	150	Horizontal	N/A
5	10599.912	48.77	-3.67	74.0	25.23	Peak	237.00	150	Horizontal	Pass
5**	10599.912	37.18	-3.67	54.0	16.82	AV	237.00	150	Horizontal	Pass
6	15739.088	49.96	-2.26	74.0	24.04	Peak	347.00	150	Horizontal	Pass
6**	15739.088	38.27	-2.26	54.0	15.73	AV	347.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1329.500	39.19	-15.96	74.0	34.81	Peak	0.00	150	Vertical	Pass
1**	1329.500	27.64	-15.96	54.0	26.36	AV	0.00	150	Vertical	Pass
2	2316.750	42.63	-12.41	74.0	31.37	Peak	84.00	150	Vertical	Pass
2**	2316.750	31.47	-12.41	54.0	22.53	AV	84.00	150	Vertical	Pass
3	3437.000	47.18	-5.26	74.0	26.82	Peak	2.00	150	Vertical	Pass
3**	3437.000	35.85	-5.26	54.0	18.15	AV	2.00	150	Vertical	Pass
4	5295.500	77.68	-2.00	74.0	-3.68	Peak	233.00	150	Vertical	N/A
4**	5295.500	69.06	-2.00	54.0	-15.06	AV	233.00	150	Vertical	N/A
5	11560.362	48.26	-2.49	74.0	25.74	Peak	349.00	150	Vertical	Pass
5**	11560.362	37.55	-2.49	54.0	16.45	AV	349.00	150	Vertical	Pass
6	16646.813	50.18	-1.22	74.0	23.82	Peak	360.00	150	Vertical	Pass
6**	16646.813	38.78	-1.22	54.0	15.22	AV	360.00	150	Vertical	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1365.500	39.18	-15.86	74.0	34.82	Peak	67.00	150	Horizontal	Pass
1**	1365.500	27.86	-15.86	54.0	26.14	AV	67.00	150	Horizontal	Pass
2	2011.750	41.62	-14.22	74.0	32.38	Peak	304.00	150	Horizontal	Pass
2**	2011.750	29.69	-14.22	54.0	24.31	AV	304.00	150	Horizontal	Pass
3	3352.500	47.07	-6.42	74.0	26.93	Peak	120.00	150	Horizontal	Pass
3**	3352.500	36.70	-6.42	54.0	17.30	AV	120.00	150	Horizontal	Pass
4	5578.500	86.63	-2.88	74.0	-12.63	Peak	221.00	150	Horizontal	N/A
4**	5578.500	78.93	-2.88	54.0	-24.93	AV	221.00	150	Horizontal	N/A
5	11158.038	53.60	-4.02	74.0	20.40	Peak	217.00	150	Horizontal	Pass
5**	11158.038	43.65	-4.02	54.0	10.35	AV	217.00	150	Horizontal	Pass
6	14721.637	50.20	-1.80	74.0	23.80	Peak	41.00	150	Horizontal	Pass
6**	14721.637	39.48	-1.80	54.0	14.52	AV	41.00	150	Horizontal	Pass
7	11157.800	50.51	-4.03	74.0	23.49	Peak	217.00	150	Horizontal	Pass
7**	11157.800	44.87	-4.03	54.0	9.13	AV	217.00	150	Horizontal	Pass

11a, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1060.250	40.67	-15.29	74.0	33.33	Peak	0.00	150	Vertical	Pass
1**	1060.250	27.82	-15.29	54.0	26.18	AV	0.00	150	Vertical	Pass
2	1888.750	40.05	-15.34	74.0	33.95	Peak	143.00	150	Vertical	Pass
2**	1888.750	28.46	-15.34	54.0	25.54	AV	143.00	150	Vertical	Pass
3	3407.000	49.69	-5.36	74.0	24.31	Peak	210.00	150	Vertical	Pass
3**	3407.000	40.37	-5.36	54.0	13.63	AV	210.00	150	Vertical	Pass
4	5581.000	84.57	-2.85	74.0	-10.57	Peak	131.00	150	Vertical	N/A
4**	5581.000	76.39	-2.85	54.0	-22.39	AV	131.00	150	Vertical	N/A
5	11157.088	53.02	-4.03	74.0	20.98	Peak	191.00	150	Vertical	Pass
5**	11157.088	42.70	-4.03	54.0	11.30	AV	191.00	150	Vertical	Pass
6	17073.375	50.09	-0.67	74.0	23.91	Peak	360.00	150	Vertical	Pass
6**	17073.375	39.94	-0.67	54.0	14.06	AV	360.00	150	Vertical	Pass
7	11160.887	50.73	-4.02	74.0	23.27	Peak	191.00	150	Vertical	Pass
7**	11160.887	44.12	-4.02	54.0	9.88	AV	191.00	150	Vertical	Pass

11ac20, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1039.000	40.76	-15.39	74.0	33.24	Peak	149.00	150	Horizontal	Pass
1**	1039.000	27.92	-15.39	54.0	26.08	AV	149.00	150	Horizontal	Pass
2	2144.750	41.76	-13.80	74.0	32.24	Peak	20.00	150	Horizontal	Pass
2**	2144.750	30.17	-13.80	54.0	23.83	AV	20.00	150	Horizontal	Pass
3	3411.000	46.61	-5.30	74.0	27.39	Peak	215.00	150	Horizontal	Pass
3**	3411.000	36.47	-5.30	54.0	17.53	AV	215.00	150	Horizontal	Pass
4	5578.500	84.89	-2.88	74.0	-10.89	Peak	224.00	150	Horizontal	N/A
4**	5578.500	77.22	-2.88	54.0	-23.22	AV	224.00	150	Horizontal	N/A
5	11162.313	52.79	-4.04	74.0	21.21	Peak	214.00	150	Horizontal	Pass
5**	11162.313	41.68	-4.04	54.0	12.32	AV	214.00	150	Horizontal	Pass
6	16291.125	49.74	-1.51	74.0	24.26	Peak	12.00	150	Horizontal	Pass
6**	16291.125	39.31	-1.51	54.0	14.69	AV	12.00	150	Horizontal	Pass
7	11158.750	51.81	-4.02	74.0	22.19	Peak	239.00	150	Horizontal	Pass
7**	11158.750	43.45	-4.02	54.0	10.55	AV	239.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1055.250	41.59	-15.38	74.0	32.41	Peak	0.00	150	Vertical	Pass
1**	1055.250	28.12	-15.38	54.0	25.88	AV	0.00	150	Vertical	Pass
2	1800.500	38.87	-15.78	74.0	35.13	Peak	294.00	150	Vertical	Pass
2**	1800.500	28.32	-15.78	54.0	25.68	AV	294.00	150	Vertical	Pass
3	3347.500	46.83	-6.31	74.0	27.17	Peak	221.00	150	Vertical	Pass
3**	3347.500	36.16	-6.31	54.0	17.84	AV	221.00	150	Vertical	Pass
4	5578.000	84.31	-2.89	74.0	-10.31	Peak	131.00	150	Vertical	N/A
4**	5578.000	76.24	-2.89	54.0	-22.24	AV	131.00	150	Vertical	N/A
5	11158.513	51.96	-4.02	74.0	22.04	Peak	194.00	150	Vertical	Pass
5**	11158.513	42.07	-4.02	54.0	11.93	AV	194.00	150	Vertical	Pass
6	15146.100	49.90	-2.84	74.0	24.10	Peak	360.00	150	Vertical	Pass
6**	15146.100	38.54	-2.84	54.0	15.46	AV	360.00	150	Vertical	Pass
7	11160.651	50.04	-4.02	74.0	23.96	Peak	194.00	150	Vertical	Pass
7**	11160.651	44.66	-4.02	54.0	9.34	AV	194.00	150	Vertical	Pass

11ac40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1075.000	39.72	-15.37	74.0	34.28	Peak	140.00	150	Horizontal	Pass
1**	1075.000	27.65	-15.37	54.0	26.35	AV	140.00	150	Horizontal	Pass
2	2156.500	41.40	-13.46	74.0	32.60	Peak	336.00	150	Horizontal	Pass
2**	2156.500	30.43	-13.46	54.0	23.57	AV	336.00	150	Horizontal	Pass
3	3383.000	47.07	-5.25	74.0	26.93	Peak	2.00	150	Horizontal	Pass
3**	3383.000	36.06	-5.25	54.0	17.94	AV	2.00	150	Horizontal	Pass
4	5586.500	82.81	-2.81	74.0	-8.81	Peak	231.00	150	Horizontal	N/A
4**	5586.500	74.67	-2.81	54.0	-20.67	AV	231.00	150	Horizontal	N/A
5	11161.362	50.63	-4.02	74.0	23.37	Peak	216.00	150	Horizontal	Pass
5**	11161.362	39.37	-4.02	54.0	14.63	AV	216.00	150	Horizontal	Pass
6	17093.063	50.16	-0.64	74.0	23.84	Peak	278.00	150	Horizontal	Pass
6**	17093.063	40.00	-0.64	54.0	14.00	AV	278.00	150	Horizontal	Pass
7	11178.225	48.09	-4.19	74.0	25.91	Peak	216.00	150	Horizontal	Pass
7**	11178.225	41.93	-4.19	54.0	12.07	AV	216.00	150	Horizontal	Pass

11ac40, U-NII-2C, 1 GHz to 18 GHz, Middle Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1064.750	41.10	-15.19	74.0	32.90	Peak	0.00	150	Vertical	Pass
1**	1064.750	28.45	-15.19	54.0	25.55	AV	0.00	150	Vertical	Pass
2	2299.000	42.51	-13.13	74.0	31.49	Peak	267.00	150	Vertical	Pass
2**	2299.000	31.04	-13.13	54.0	22.96	AV	267.00	150	Vertical	Pass
3	3407.500	47.66	-5.33	74.0	26.34	Peak	192.00	150	Vertical	Pass
3**	3407.500	36.21	-5.33	54.0	17.79	AV	192.00	150	Vertical	Pass
4	5591.500	82.04	-2.79	74.0	-8.04	Peak	132.00	150	Vertical	N/A
4**	5591.500	74.11	-2.79	54.0	-20.11	AV	132.00	150	Vertical	N/A
5	11185.112	50.84	-4.13	74.0	23.16	Peak	192.00	150	Vertical	Pass
5**	11185.112	40.18	-4.13	54.0	13.82	AV	192.00	150	Vertical	Pass
6	16383.526	50.31	-1.39	74.0	23.69	Peak	0.00	150	Vertical	Pass
6**	16383.526	39.21	-1.39	54.0	14.79	AV	0.00	150	Vertical	Pass
7	11185.350	47.31	-4.13	74.0	26.69	Peak	192.00	150	Vertical	Pass
7**	11185.350	42.10	-4.13	54.0	11.90	AV	192.00	150	Vertical	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.500	40.33	-15.23	74.0	33.67	Peak	139.00	150	Horizontal	Pass
1**	1063.500	27.73	-15.23	54.0	26.27	AV	139.00	150	Horizontal	Pass
2	2312.250	42.03	-12.43	74.0	31.97	Peak	0.00	150	Horizontal	Pass
2**	2312.250	30.66	-12.43	54.0	23.34	AV	0.00	150	Horizontal	Pass
3	3366.000	47.49	-5.08	74.0	26.51	Peak	160.00	150	Horizontal	Pass
3**	3366.000	36.60	-5.08	54.0	17.40	AV	160.00	150	Horizontal	Pass
4	5616.000	80.37	-2.38	74.0	-6.37	Peak	230.00	150	Horizontal	N/A
4**	5616.000	72.41	-2.38	54.0	-18.41	AV	230.00	150	Horizontal	N/A
5	11239.262	50.25	-4.35	74.0	23.75	Peak	216.00	150	Horizontal	Pass
5**	11239.262	38.81	-4.35	54.0	15.19	AV	216.00	150	Horizontal	Pass
6	17380.237	50.17	0.04	74.0	23.83	Peak	0.00	150	Horizontal	Pass
6**	17380.237	39.21	0.04	54.0	14.79	AV	0.00	150	Horizontal	Pass

11ac80, U-NII-2C, 1 GHz to 18 GHz, High Channel, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1063.750	41.35	-15.22	74.0	32.65	Peak	1.00	150	Vertical	Pass
1**	1063.750	28.17	-15.22	54.0	25.83	AV	1.00	150	Vertical	Pass
2	2071.500	41.36	-13.74	74.0	32.64	Peak	61.00	150	Vertical	Pass
2**	2071.500	30.14	-13.74	54.0	23.86	AV	61.00	150	Vertical	Pass
3	3317.000	46.74	-6.38	74.0	27.26	Peak	249.00	150	Vertical	Pass
3**	3317.000	36.93	-6.38	54.0	17.07	AV	249.00	150	Vertical	Pass
4	5612.500	79.14	-2.40	74.0	-5.14	Peak	131.00	150	Vertical	N/A
4**	5612.500	71.12	-2.40	54.0	-17.12	AV	131.00	150	Vertical	N/A
5	11239.500	48.71	-4.35	74.0	25.29	Peak	193.00	150	Vertical	Pass
5**	11239.500	38.20	-4.35	54.0	15.80	AV	193.00	150	Vertical	Pass
6	16713.488	50.23	-1.63	74.0	23.77	Peak	1.00	150	Vertical	Pass
6**	16713.488	38.99	-1.63	54.0	15.01	AV	1.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1137.250	39.60	-15.54	74.0	34.40	Peak	146.00	150	Horizontal	Pass
1**	1137.250	28.01	-15.54	54.0	25.99	AV	146.00	150	Horizontal	Pass
2	2061.750	41.95	-13.84	74.0	32.05	Peak	18.00	150	Horizontal	Pass
2**	2061.750	29.84	-13.84	54.0	24.16	AV	18.00	150	Horizontal	Pass
3	3364.500	47.08	-5.23	74.0	26.92	Peak	163.00	150	Horizontal	Pass
3**	3364.500	36.79	-5.23	54.0	17.21	AV	163.00	150	Horizontal	Pass
4	5783.500	87.30	-1.54	74.0	-13.30	Peak	233.00	150	Horizontal	N/A
4**	5783.500	78.98	-1.54	54.0	-24.98	AV	233.00	150	Horizontal	N/A
5	11571.049	51.29	-2.39	74.0	22.71	Peak	237.00	150	Horizontal	Pass
5**	11571.049	41.40	-2.39	54.0	12.60	AV	237.00	150	Horizontal	Pass
6	16617.938	50.45	-1.16	74.0	23.55	Peak	246.00	150	Horizontal	Pass
6**	16617.938	39.09	-1.16	54.0	14.91	AV	246.00	150	Horizontal	Pass
7	11567.250	47.59	-2.37	74.0	26.41	Peak	261.00	150	Horizontal	Pass
7**	11567.250	41.77	-2.37	54.0	12.23	AV	261.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1036.250	40.78	-15.36	74.0	33.22	Peak	169.00	150	Vertical	Pass
1**	1036.250	27.71	-15.36	54.0	26.29	AV	169.00	150	Vertical	Pass
2	2290.500	42.03	-13.09	74.0	31.97	Peak	44.00	150	Vertical	Pass
2**	2290.500	30.86	-13.09	54.0	23.14	AV	44.00	150	Vertical	Pass
3	3419.500	46.82	-5.04	74.0	27.18	Peak	360.00	150	Vertical	Pass
3**	3419.500	36.11	-5.04	54.0	17.89	AV	360.00	150	Vertical	Pass
4	5786.500	87.50	-1.53	74.0	-13.50	Peak	120.00	150	Vertical	N/A
4**	5786.500	79.47	-1.53	54.0	-25.47	AV	120.00	150	Vertical	N/A
5	11567.013	53.81	-2.35	74.0	20.19	Peak	333.00	150	Vertical	Pass
5**	11567.013	41.43	-2.35	54.0	12.57	AV	333.00	150	Vertical	Pass
6	16956.300	50.03	-0.93	74.0	23.97	Peak	12.00	150	Vertical	Pass
6**	16956.300	39.05	-0.93	54.0	14.95	AV	12.00	150	Vertical	Pass
7	11571.287	49.11	-2.41	74.0	24.89	Peak	333.00	150	Vertical	Pass
7**	11571.287	42.32	-2.41	54.0	11.68	AV	333.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1112.250	39.97	-15.78	74.0	34.03	Peak	151.00	150	Horizontal	Pass
1**	1112.250	27.12	-15.78	54.0	26.88	AV	151.00	150	Horizontal	Pass
2	2287.500	42.26	-12.91	74.0	31.74	Peak	331.00	150	Horizontal	Pass
2**	2287.500	30.67	-12.91	54.0	23.33	AV	331.00	150	Horizontal	Pass
3	3365.500	46.92	-5.13	74.0	27.08	Peak	360.00	150	Horizontal	Pass
3**	3365.500	36.30	-5.13	54.0	17.70	AV	360.00	150	Horizontal	Pass
4	5786.000	87.57	-1.53	74.0	-13.57	Peak	231.00	150	Horizontal	N/A
4**	5786.000	79.95	-1.53	54.0	-25.95	AV	231.00	150	Horizontal	N/A
5	11570.338	50.39	-2.33	74.0	23.61	Peak	121.00	150	Horizontal	Pass
5**	11570.338	40.49	-2.33	54.0	13.51	AV	121.00	150	Horizontal	Pass
6	17123.511	50.16	-0.48	74.0	23.84	Peak	360.00	150	Horizontal	Pass
6**	17123.511	39.05	-0.48	54.0	14.95	AV	360.00	150	Horizontal	Pass
7	11568.912	47.21	-2.34	74.0	26.79	Peak	27.00	150	Horizontal	Pass
7**	11568.912	42.40	-2.34	54.0	11.60	AV	27.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1019.000	41.16	-15.02	74.0	32.84	Peak	167.00	150	Vertical	Pass
1**	1019.000	27.74	-15.02	54.0	26.26	AV	167.00	150	Vertical	Pass
2	2304.250	41.95	-12.80	74.0	32.05	Peak	106.00	150	Vertical	Pass
2**	2304.250	31.08	-12.80	54.0	22.92	AV	106.00	150	Vertical	Pass
3	3372.000	46.62	-4.82	74.0	27.38	Peak	64.00	150	Vertical	Pass
3**	3372.000	36.34	-4.82	54.0	17.66	AV	64.00	150	Vertical	Pass
4	5786.500	86.89	-1.53	74.0	-12.89	Peak	124.00	150	Vertical	N/A
4**	5786.500	78.94	-1.53	54.0	-24.94	AV	124.00	150	Vertical	N/A
5	11571.287	51.90	-2.41	74.0	22.10	Peak	144.00	150	Vertical	Pass
5**	11571.287	42.13	-2.41	54.0	11.87	AV	144.00	150	Vertical	Pass
6	16428.937	49.72	-1.89	74.0	24.28	Peak	313.00	150	Vertical	Pass
6**	16428.937	38.70	-1.89	54.0	15.30	AV	313.00	150	Vertical	Pass
7	11570.099	49.50	-2.31	74.0	24.50	Peak	334.00	150	Vertical	Pass
7**	11570.099	42.90	-2.31	54.0	11.10	AV	334.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1054.500	40.46	-15.39	74.0	33.54	Peak	140.00	150	Horizontal	Pass
1**	1054.500	27.79	-15.39	54.0	26.21	AV	140.00	150	Horizontal	Pass
2	2061.250	40.61	-13.84	74.0	33.39	Peak	204.00	150	Horizontal	Pass
2**	2061.250	29.95	-13.84	54.0	24.05	AV	204.00	150	Horizontal	Pass
3	3405.500	46.83	-5.43	74.0	27.17	Peak	249.00	150	Horizontal	Pass
3**	3405.500	36.19	-5.43	54.0	17.81	AV	249.00	150	Horizontal	Pass
4	5753.000	84.60	-2.09	74.0	-10.60	Peak	230.00	150	Horizontal	N/A
4**	5753.000	76.88	-2.09	54.0	-22.88	AV	230.00	150	Horizontal	N/A
5	11509.300	48.80	-3.06	74.0	25.20	Peak	220.00	150	Horizontal	Pass
5**	11509.300	38.18	-3.06	54.0	15.82	AV	220.00	150	Horizontal	Pass
6	16985.699	50.27	-1.35	74.0	23.73	Peak	209.00	150	Horizontal	Pass
6**	16985.699	39.12	-1.35	54.0	14.88	AV	209.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1033.000	40.56	-15.38	74.0	33.44	Peak	101.00	150	Vertical	Pass
1**	1033.000	28.00	-15.38	54.0	26.00	AV	101.00	150	Vertical	Pass
2	2248.000	42.07	-12.85	74.0	31.93	Peak	266.00	150	Vertical	Pass
2**	2248.000	30.81	-12.85	54.0	23.19	AV	266.00	150	Vertical	Pass
3	3500.000	46.93	-6.03	74.0	27.07	Peak	2.00	150	Vertical	Pass
3**	3500.000	35.30	-6.03	54.0	18.70	AV	2.00	150	Vertical	Pass
4	5757.500	84.16	-2.00	74.0	-10.16	Peak	131.00	150	Vertical	N/A
4**	5757.500	76.17	-2.00	54.0	-22.17	AV	131.00	150	Vertical	N/A
5	11496.237	49.07	-3.05	74.0	24.93	Peak	167.00	150	Vertical	Pass
5**	11496.237	38.51	-3.05	54.0	15.49	AV	167.00	150	Vertical	Pass
6	16064.326	50.14	-1.23	74.0	23.86	Peak	74.00	150	Vertical	Pass
6**	16064.326	39.21	-1.23	54.0	14.79	AV	74.00	150	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1045.500	40.51	-15.40	74.0	33.49	Peak	126.00	150	Horizontal	Pass
1**	1045.500	27.67	-15.40	54.0	26.33	AV	126.00	150	Horizontal	Pass
2	2247.750	41.63	-12.84	74.0	32.37	Peak	111.00	150	Horizontal	Pass
2**	2247.750	30.59	-12.84	54.0	23.41	AV	111.00	150	Horizontal	Pass
3	3510.500	46.85	-5.97	74.0	27.15	Peak	360.00	150	Horizontal	Pass
3**	3510.500	35.52	-5.97	54.0	18.48	AV	360.00	150	Horizontal	Pass
4	5777.000	82.66	-1.53	74.0	-8.66	Peak	229.00	150	Horizontal	N/A
4**	5777.000	74.81	-1.53	54.0	-20.81	AV	229.00	150	Horizontal	N/A
5	11567.250	49.22	-2.37	74.0	24.78	Peak	0.00	150	Horizontal	Pass
5**	11567.250	38.12	-2.37	54.0	15.88	AV	0.00	150	Horizontal	Pass
6	15337.987	49.57	-2.69	74.0	24.43	Peak	139.00	150	Horizontal	Pass
6**	15337.987	38.00	-2.69	54.0	16.00	AV	139.00	150	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1042.500	40.95	-15.38	74.0	33.05	Peak	81.00	150	Vertical	Pass
1**	1042.500	27.57	-15.38	54.0	26.43	AV	81.00	150	Vertical	Pass
2	2156.000	41.34	-13.47	74.0	32.66	Peak	273.00	150	Vertical	Pass
2**	2156.000	30.28	-13.47	54.0	23.72	AV	273.00	150	Vertical	Pass
3	3400.000	47.07	-5.67	74.0	26.93	Peak	212.00	150	Vertical	Pass
3**	3400.000	36.41	-5.67	54.0	17.59	AV	212.00	150	Vertical	Pass
4	5795.000	82.09	-1.46	74.0	-8.09	Peak	124.00	150	Vertical	N/A
4**	5795.000	73.15	-1.46	54.0	-19.15	AV	124.00	150	Vertical	N/A
5	11526.638	48.81	-2.68	74.0	25.19	Peak	6.00	150	Vertical	Pass
5**	11526.638	37.97	-2.68	54.0	16.03	AV	6.00	150	Vertical	Pass
6	16639.462	50.40	-0.95	74.0	23.60	Peak	0.00	150	Vertical	Pass
6**	16639.462	39.64	-0.95	54.0	14.36	AV	0.00	150	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
U-NII-1	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass
	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	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-2C	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)	Low	Pass
		High	Pass
U-NII-3	802.11a	Low	Pass
		High	Pass
	802.11n(HT20)	Low	Pass
		High	Pass
	802.11n(HT40)	Low	Pass
		High	Pass

	802.11ac(VHT20)	Low	Pass
		High	Pass
	802.11ac(VHT40)	Low	Pass
		High	Pass
	802.11ac(VHT80)	Middle	Pass

Test Data**U-NII-1 11a Low Channel**

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.76	3.82	74.0	18.24	Peak	143.04	150	Horizontal	Pass
1**	5150.000	44.58	3.82	54.0	9.42	AV	143.04	150	Horizontal	Pass
2	5138.950	56.17	4.06	74.0	17.83	Peak	93.00	150	Horizontal	Pass
2**	5138.950	44.93	4.06	54.0	9.07	AV	93.00	150	Horizontal	Pass

U-NII-1 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.47	4.04	74.0	19.53	Peak	179.00	150	Vertical	Pass
1**	5350.000	44.71	4.04	54.0	9.29	AV	179.00	150	Vertical	Pass
2	5355.500	56.42	4.16	74.0	17.58	Peak	147.00	150	Vertical	Pass
2**	5355.500	44.62	4.16	54.0	9.38	AV	147.00	150	Vertical	Pass

U-NII-1 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.10	3.82	74.0	19.90	Peak	235.01	150	Vertical	Pass
1**	5150.000	44.74	3.82	54.0	9.26	AV	235.01	150	Vertical	Pass
2	5114.900	56.18	3.65	74.0	17.82	Peak	57.00	150	Vertical	Pass
2**	5114.900	44.58	3.65	54.0	9.42	AV	57.00	150	Vertical	Pass

U-NII-1 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.58	4.04	74.0	19.42	Peak	291.00	150	Vertical	Pass
1**	5350.000	44.56	4.04	54.0	9.44	AV	291.00	150	Vertical	Pass
2	5373.320	56.79	4.01	74.0	17.21	Peak	46.00	150	Vertical	Pass
2**	5373.320	44.66	4.01	54.0	9.34	AV	46.00	150	Vertical	Pass

U-NII-1 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.73	3.82	74.0	19.27	Peak	2.05	150	Horizontal	Pass
1**	5150.000	44.75	3.82	54.0	9.25	AV	2.05	150	Horizontal	Pass
2	4938.750	56.57	3.96	74.0	17.43	Peak	160.00	150	Horizontal	Pass
2**	4938.750	44.55	3.96	54.0	9.45	AV	160.00	150	Horizontal	Pass

U-NII-1 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.39	4.04	74.0	19.61	Peak	360.00	150	Vertical	Pass
1**	5350.000	44.64	4.04	54.0	9.36	AV	360.00	150	Vertical	Pass
2	5412.590	56.63	3.69	74.0	17.37	Peak	339.00	150	Vertical	Pass
2**	5412.590	44.51	3.69	54.0	9.49	AV	339.00	150	Vertical	Pass

U-NII-1 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.67	3.82	74.0	19.33	Peak	38.03	150	Vertical	Pass
1**	5150.000	44.64	3.82	54.0	9.36	AV	38.03	150	Vertical	Pass
2	4938.100	56.43	3.92	74.0	17.57	Peak	201.00	150	Vertical	Pass
2**	4938.100	44.38	3.92	54.0	9.62	AV	201.00	150	Vertical	Pass

U-NII-2A 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	55.24	3.82	74.0	18.76	Peak	28.02	150	Horizontal	Pass
1**	5150.000	44.56	3.82	54.0	9.44	AV	28.02	150	Horizontal	Pass
2	5116.850	56.51	3.68	74.0	17.49	Peak	360.00	150	Horizontal	Pass
2**	5116.850	44.57	3.68	54.0	9.43	AV	360.00	150	Horizontal	Pass

U-NII-2A 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.62	4.04	74.0	19.38	Peak	0.00	150	Horizontal	Pass
1**	5350.000	44.66	4.04	54.0	9.34	AV	0.00	150	Horizontal	Pass
2	5435.250	56.91	3.70	74.0	17.09	Peak	164.00	150	Horizontal	Pass
2**	5435.250	44.45	3.70	54.0	9.55	AV	164.00	150	Horizontal	Pass

U-NII-2A 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.94	3.82	74.0	19.06	Peak	235.02	150	Vertical	Pass
1**	5150.000	44.76	3.82	54.0	9.24	AV	235.02	150	Vertical	Pass
2	4936.800	56.12	3.83	74.0	17.88	Peak	99.00	150	Vertical	Pass
2**	4936.800	44.40	3.83	54.0	9.60	AV	99.00	150	Vertical	Pass

U-NII-2A 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	55.73	4.04	74.0	18.27	Peak	14.00	150	Horizontal	Pass
1**	5350.000	44.74	4.04	54.0	9.26	AV	14.00	150	Horizontal	Pass
2	5354.510	56.46	4.13	74.0	17.54	Peak	167.00	150	Horizontal	Pass
2**	5354.510	44.52	4.13	54.0	9.48	AV	167.00	150	Horizontal	Pass

U-NII-2A 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5150.000	54.43	3.82	74.0	19.57	Peak	164.03	150	Vertical	Pass
1**	5150.000	44.83	3.82	54.0	9.17	AV	164.03	150	Vertical	Pass
2	5027.150	56.08	3.60	74.0	17.92	Peak	0.00	150	Vertical	Pass
2**	5027.150	44.13	3.60	54.0	9.87	AV	0.00	150	Vertical	Pass

U-NII-2A 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.39	4.04	74.0	19.61	Peak	359.00	150	Horizontal	Pass
1**	5350.000	44.59	4.04	54.0	9.41	AV	359.00	150	Horizontal	Pass
2	5459.010	56.22	3.78	74.0	17.78	Peak	297.00	150	Horizontal	Pass
2**	5459.010	44.41	3.78	54.0	9.59	AV	297.00	150	Horizontal	Pass

U-NII-2A 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5350.000	54.83	4.04	74.0	19.17	Peak	205.00	150	Vertical	Pass
1**	5350.000	44.53	4.04	54.0	9.47	AV	205.00	150	Vertical	Pass
2	5386.190	56.24	4.05	74.0	17.76	Peak	0.00	150	Vertical	Pass
2**	5386.190	44.56	4.05	54.0	9.44	AV	0.00	150	Vertical	Pass

U-NII-2C 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.55	3.78	68.2	13.65	Peak	101.03	150	Vertical	Pass
1**	5460.000	44.47	3.78	54.0	9.53	AV	101.03	150	Vertical	Pass
2	5469.040	56.64	4.07	68.2	11.56	Peak	178.00	150	Vertical	Pass
2**	5469.040	44.66	4.07	--	-44.66	AV	178.00	150	Vertical	N/A

U-NII-2C 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.15	4.31	68.2	12.05	Peak	2.00	150	Vertical	Pass
2	5824.750	58.17	5.34	68.2	10.03	Peak	0.00	150	Vertical	Pass

U-NII-2C 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.34	3.78	68.2	13.86	Peak	58.72	150	Horizontal	Pass
1**	5460.000	44.38	3.78	54.0	9.62	AV	58.72	150	Horizontal	Pass
2	5466.280	56.44	3.98	68.2	11.76	Peak	316.00	150	Horizontal	Pass
2**	5466.280	44.59	3.98	--	-44.59	AV	316.00	150	Horizontal	N/A

U-NII-2C 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.03	4.31	68.2	12.17	Peak	11.00	150	Vertical	Pass
2	5838.000	58.32	5.37	68.2	9.88	Peak	218.00	150	Vertical	Pass

U-NII-2C 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.79	3.78	68.2	13.41	Peak	283.84	150	Vertical	Pass
1**	5460.000	44.27	3.78	54.0	9.73	AV	283.84	150	Vertical	Pass
2	5465.320	56.25	3.95	68.2	11.95	Peak	63.00	150	Vertical	Pass
2**	5465.320	44.43	3.95	--	-44.43	AV	63.00	150	Vertical	N/A

U-NII-2C 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	55.80	4.31	68.2	12.40	Peak	267.00	150	Horizontal	Pass
2	5770.125	58.03	4.69	68.2	10.17	Peak	206.00	150	Horizontal	Pass

U-NII-2C 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5460.000	54.24	3.78	68.2	13.96	Peak	196.85	150	Vertical	Pass
1**	5460.000	44.22	3.78	54.0	9.78	AV	196.85	150	Vertical	Pass
2	5467.120	55.66	4.01	68.2	12.54	Peak	231.00	150	Vertical	Pass
2**	5467.120	44.56	4.01	--	-44.56	AV	231.00	150	Vertical	N/A

U-NII-2C 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5725.000	56.42	4.31	68.2	11.78	Peak	62.00	150	Horizontal	Pass
2	5824.625	58.24	5.34	68.2	9.96	Peak	325.00	150	Horizontal	Pass

U-NII-3 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	56.11	3.81	68.2	12.09	Peak	136.02	150	Vertical	Pass
2	5643.625	57.46	3.76	68.2	10.74	Peak	300.00	150	Vertical	Pass

U-NII-3 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.50	6.44	68.2	11.70	Peak	233.16	150	Vertical	Pass
2	5986.500	58.87	6.25	68.2	9.33	Peak	216.00	150	Vertical	Pass

U-NII-3 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.99	3.81	68.2	12.21	Peak	297.73	150	Vertical	Pass
2	5642.375	57.72	3.74	68.2	10.48	Peak	15.00	150	Vertical	Pass

U-NII-3 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	56.82	6.44	68.2	11.38	Peak	0.23	150	Vertical	Pass
2	5931.000	59.01	6.30	68.2	9.19	Peak	358.00	150	Vertical	Pass

U-NII-3 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.25	3.81	68.2	12.95	Peak	92.10	150	Vertical	Pass
2	5640.250	57.13	3.74	68.2	11.07	Peak	0.00	150	Vertical	Pass

U-NII-3 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5925.000	57.39	6.44	68.2	10.81	Peak	31.08	150	Horizontal	Pass
2	5951.850	59.40	6.19	68.2	8.80	Peak	0.00	150	Horizontal	Pass

U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5650.000	55.40	3.81	68.2	12.80	Peak	190.86	150	Vertical	Pass
2	5636.000	57.42	3.71	68.2	10.78	Peak	264.00	150	Vertical	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2520873-AR-2.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2520873-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2520873-AI.PDF”.

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