

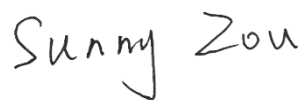
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TEST REPORT

Applicant: OnePlus Technology (Shenzhen) Co., Ltd.
Address: 18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.
Equipment Type: Tablet
Model Name: OPD2504
Brand Name: ONEPLUS, 
FCC ID: 2ABZ2-OPD2504
Test Standard: 47 CFR Part 15 Subpart E (refer to section 3.1)
Sample Arrival Date: Sep. 12, 2025
Test Date: Sep. 18, 2025 - Oct. 13, 2025
Date of Issue: Oct. 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>Oct. 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	OnePlus Technology (Shenzhen) Co., Ltd.
Address	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

2.2 Manufacturer Information

Manufacturer	OnePlus Technology (Shenzhen) Co., Ltd.
Address	18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

2.3 General Description for Equipment under Test (EUT)

EUT Name	Tablet
Model Name Under Test	OPD2504
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	11
Software Version	OxygenOS 16.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	SC-SZ2580663: S04, S08
IMEI Number	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BR+EDR+BLE) WIFI 802.11b, 802.11g, 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80), 802.11ax(HE20/40/80)
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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-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Modulation technology	OFDM, OFDMA
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 802.11ax up to 480 Mbps
Channel Bandwidth	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80 MHz 802.11ax: 20 MHz, 40 MHz, 80 MHz
Maximum Output Power	U-NII-1: 63.83 mW U-NII-2A: 62.37 mW U-NII-2C: 61.94 mW U-NII-3: 61.24 mW
Antenna System (eg., MIMO, Smart Antenna)	N/A
Categorization as Correlated or Completely Uncorrelated	N/A
Antenna Type	IFA Antenna
Antenna Gain	U-NII-1: 5150 MHz to 5250 MHz: -0.9 dBi U-NII-2A: 5250 MHz to 5350 MHz: -0.9 dBi U-NII-2C: 5470 MHz to 5725 MHz: -0.7 dBi U-NII-3: 5725 MHz to 5850 MHz: -2.1 dBi
About the Product	The equipment is Tablet, intended for used with information technology equipment.

802.11ax RU configuration table							
Mode	Full RU (SU)	RU_26	RU_52	RU_106	RU_242	RU_484	RU_996
802.11ax20	√	√	√	√	--	--	--
802.11ax40	√	√	√	√	√	--	--
802.11ax80	√	√	√	√	√	√	--

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)/ax(HE20)

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)/ax(HE40)

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)/ax(HE80)

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
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		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
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		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
	11ax(20 MHz)	4		N/A	N/A	N/A	165/157/149
	11ax(40 MHz)	8		N/A	N/A	N/A	159/151
	11ax(80 MHz)	17		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
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		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
	11ax(20 MHz)	4		48/44/36	64/60/52	140/116/100	165/157/149
	11ax(40 MHz)	8		46/38	62/54	134/118/102	159/151
	11ax(80 MHz)	17		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
	11ax(20 MHz)	4		48/36	64/52	140/100	165/149
	11ax(40 MHz)	8		46/38	62/54	134/102	159/151
	11ax(80 MHz)	17		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 C63.10-2020	American National Standard of Procedures for Compliance Testing of 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	42% to 65%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.8℃ to +26.1℃
Working Voltage of the EUT	NV (Normal Voltage)	3.91V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY50330200	2025.04.28	2026.04.27
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2025.06.16	2026.06.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2025.06.16	2026.06.15
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2025.04.28	2026.04.27
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	02460	2024.05.16	2027.05.15
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	140	2024.07.28	2027.07.27
Amplifier	COM-MV	LSCX_LNA1-12G-01	7210214	2025.06.17	2026.06.16
Amplifier	COM-MV	XKu_LNA7-18G-01	7210209	2025.06.17	2026.06.16
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2025.06.16	2026.06.15
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2025.06.16	2026.06.15
LISN	SCHWARZBECK	NSLK 8127	8127-687	2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2025.02.14	2028.02.13

4.3 Test Software List

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

4.4 Measurement Uncertainty

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

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

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

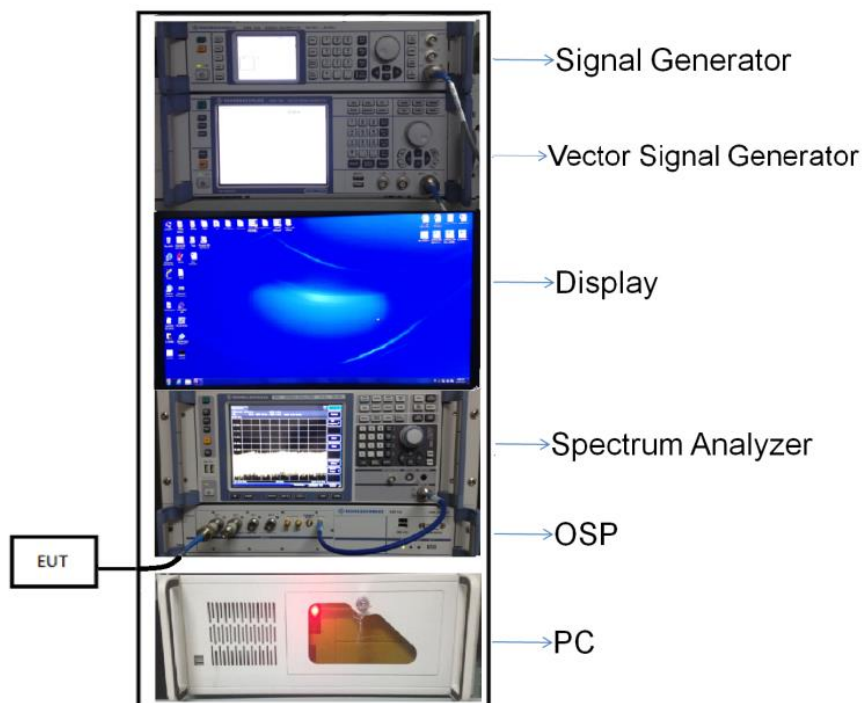
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

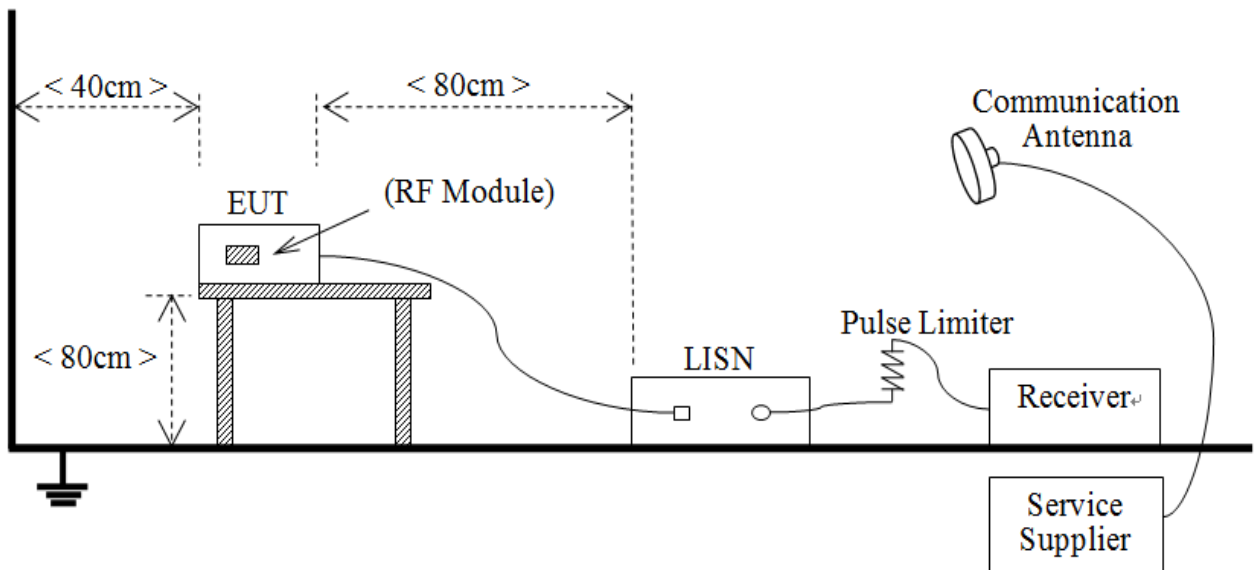
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



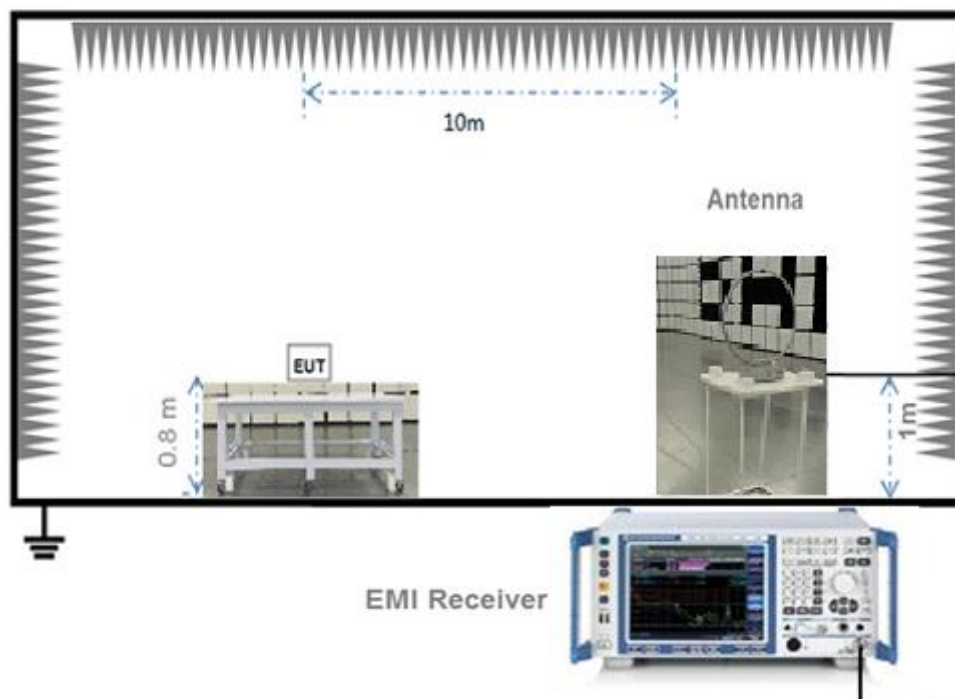
(Diagram 1)

4.5.2 For AC Power Supply Port Test



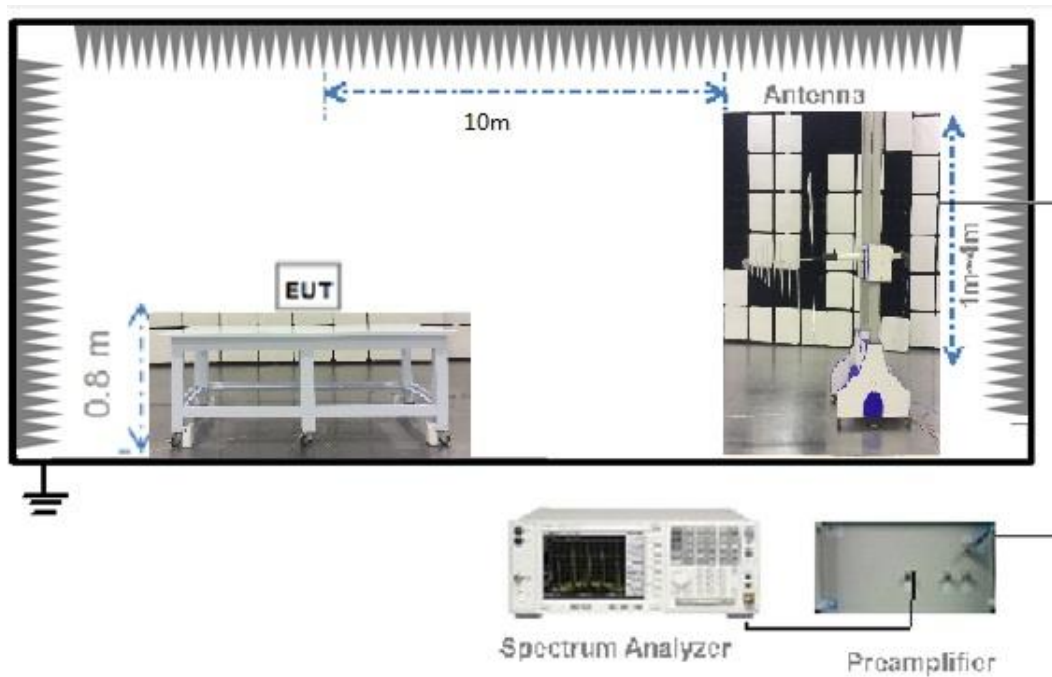
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



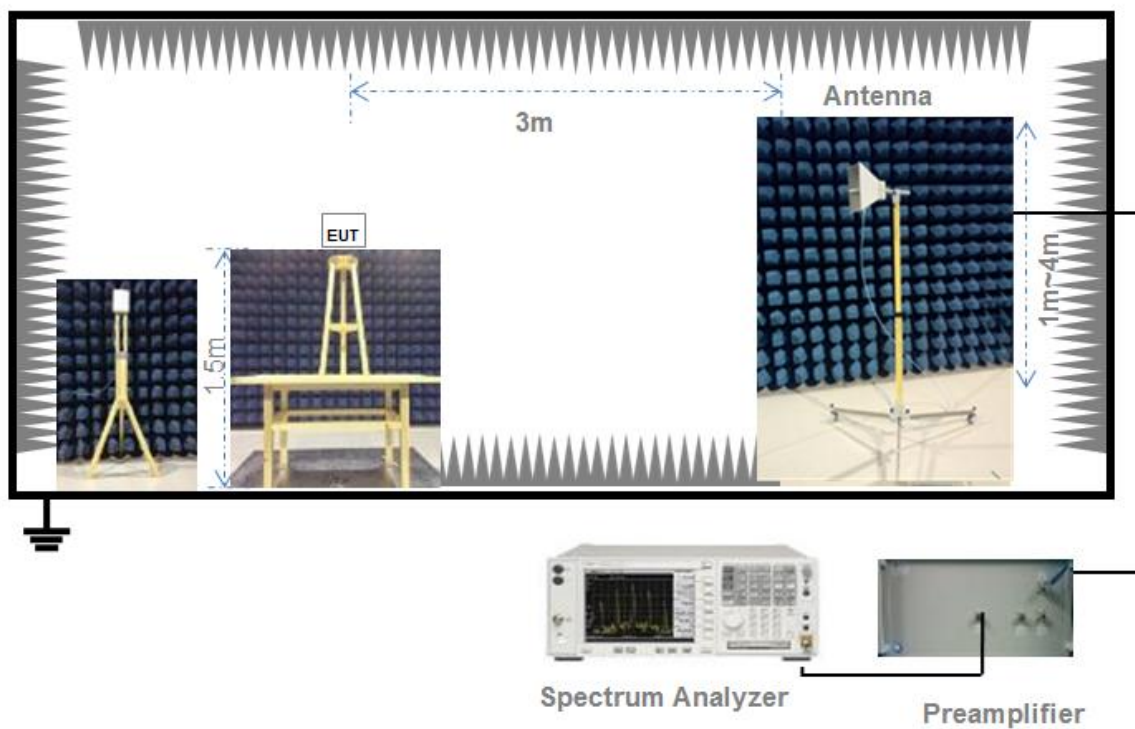
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

5 TEST ITEMS

5.1 RF Output Power

5.1.1 Test Limit

FCC §15.407(a)

The maximum conducted output power should not exceed:

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

5.1.2 Test Setup

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

5.1.3 Test Procedure

Maximum conducted (average) output power

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

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

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

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

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

Measurements of duty cycle

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

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

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

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

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

The E.I.R.P used radiated test method. At a test site that has been validated using the procedures of ANSI C63.10 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 C63.10 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)

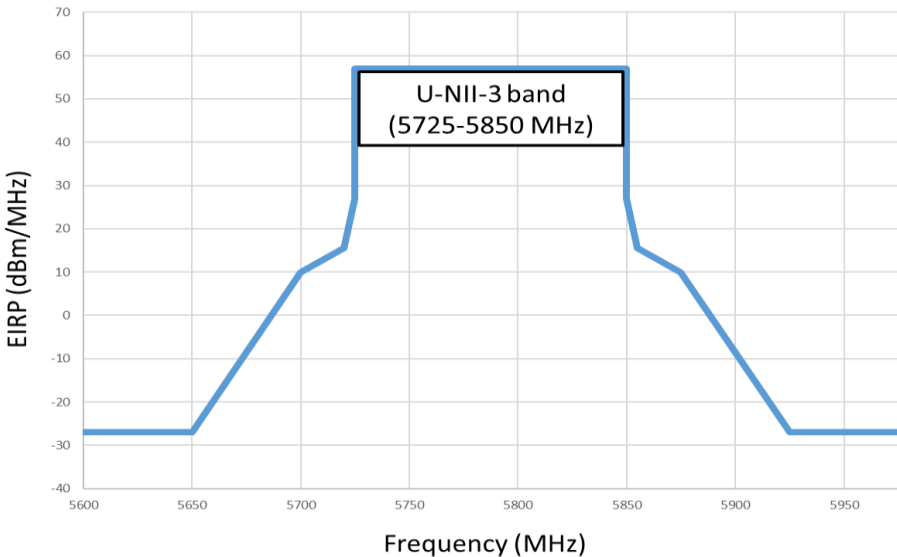
5.5.1 Limit

FCC §15.209 & 15.407(b) 2

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

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

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

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

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

5.5.2 Test Setup

The section 4.5.3-4.5.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX 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	Duty Factor
11a	1.39	1.43	96.65%	0.15
11n(HT20)/11ac(VHT20)	1.31	1.35	96.45%	0.16
11n(HT40)/11ac(VHT40)	0.65	0.69	93.07%	0.31
11ac(VHT80)	0.32	0.37	87.52%	0.58
11ax(HE20)	1.01	1.05	95.72%	0.19
11ax(HE40)	0.53	0.58	91.67%	0.38
11ax(HE80)	0.28	0.33	86.41%	0.63

Test DataConducted Power

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	16.38	43.45	250	Pass
11a	CH44	16.62	45.92	250	Pass
11a	CH48	16.98	49.89	250	Pass
11n(HT20)	CH36	16.27	42.36	250	Pass
11n(HT20)	CH44	16.52	44.87	250	Pass
11n(HT20)	CH48	16.49	44.57	250	Pass
11n(HT40)	CH38	15.48	35.32	250	Pass
11n(HT40)	CH46	18.05	63.83	250	Pass
11ac(VHT20)	CH36	16.31	42.76	250	Pass
11ac(VHT20)	CH44	16.43	43.95	250	Pass
11ac(VHT20)	CH48	16.62	45.92	250	Pass
11ac(VHT40)	CH38	15.35	34.28	250	Pass
11ac(VHT40)	CH46	17.52	56.49	250	Pass
11ac(VHT80)	CH42	12.33	17.10	250	Pass
11ax(HE20)(SU)	CH36	15.45	35.08	250	Pass
11ax(HE20)(SU)	CH44	15.61	36.39	250	Pass
11ax(HE20)(SU)	CH48	15.52	35.65	250	Pass
11ax(HE40)(SU)	CH38	15.14	32.66	250	Pass
11ax(HE40)(SU)	CH46	15.10	32.36	250	Pass
11ax(HE80)(SU)	CH42	12.57	18.07	250	Pass

U-NII-1 (5150 - 5250 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH36	26	8.18	6.58	250	Pass
		52	12.37	17.26	250	Pass
		106	12.10	16.22	250	Pass
	CH44	26	8.14	6.52	250	Pass
		52	12.39	17.34	250	Pass
		106	12.34	17.14	250	Pass
	CH48	26	8.34	6.82	250	Pass
		52	12.34	17.14	250	Pass
		106	12.12	16.29	250	Pass
11ax(HE40)	CH38	26	8.30	6.76	250	Pass
		52	12.41	17.42	250	Pass
		106	12.14	16.37	250	Pass
		242	12.14	16.37	250	Pass
	CH46	26	8.38	6.89	250	Pass
		52	12.02	15.92	250	Pass
		106	12.22	16.67	250	Pass
		242	12.45	17.58	250	Pass
11ax(HE80)	CH42	26	8.35	6.84	250	Pass
		52	12.40	17.38	250	Pass
		106	12.08	16.14	250	Pass
		242	12.48	17.70	250	Pass
		484	12.15	16.41	250	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH52	15.58	36.14	250	Pass
11a	CH60	15.35	34.28	250	Pass
11a	CH64	15.51	35.56	250	Pass
11n(HT20)	CH52	15.64	36.64	250	Pass
11n(HT20)	CH60	15.34	34.20	250	Pass
11n(HT20)	CH64	15.34	34.20	250	Pass
11n(HT40)	CH54	17.95	62.37	250	Pass
11n(HT40)	CH62	13.31	21.43	250	Pass
11ac(VHT20)	CH52	15.45	35.08	250	Pass
11ac(VHT20)	CH60	15.33	34.12	250	Pass
11ac(VHT20)	CH64	15.34	34.20	250	Pass
11ac(VHT40)	CH54	17.49	56.10	250	Pass
11ac(VHT40)	CH62	13.28	21.28	250	Pass
11ac(VHT80)	CH58	9.93	9.84	250	Pass
11ax(HE20)(SU)	CH52	15.51	35.56	250	Pass
11ax(HE20)(SU)	CH60	15.52	35.65	250	Pass
11ax(HE20)(SU)	CH64	15.43	34.91	250	Pass
11ax(HE40)(SU)	CH54	15.17	32.89	250	Pass
11ax(HE40)(SU)	CH62	13.54	22.59	250	Pass
11ax(HE80)(SU)	CH58	10.18	10.42	250	Pass

U-NII-2A (5250 - 5350 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH52	26	10.21	10.50	250	Pass
		52	10.41	10.99	250	Pass
		106	12.10	16.22	250	Pass
	CH60	26	10.27	10.64	250	Pass
		52	10.50	11.22	250	Pass
		106	12.08	16.14	250	Pass
	CH64	26	10.22	10.52	250	Pass
		52	10.47	11.14	250	Pass
		106	12.16	16.44	250	Pass
11ax(HE40)	CH54	26	10.21	10.50	250	Pass
		52	10.39	10.94	250	Pass
		106	12.17	16.48	250	Pass
		242	12.63	18.32	250	Pass
	CH62	26	10.45	11.09	250	Pass
		52	10.55	11.35	250	Pass
		106	12.20	16.60	250	Pass
		242	12.55	17.99	250	Pass
11ax(HE80)	CH58	26	10.25	10.59	250	Pass
		52	10.48	11.17	250	Pass
		106	12.18	16.52	250	Pass
		242	12.39	17.34	250	Pass
		484	12.15	16.41	250	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH100	16.33	42.95	250	Pass
11a	CH116	16.55	45.19	250	Pass
11a	CH140	16.31	42.76	250	Pass
11n(HT20)	CH100	16.21	41.78	250	Pass
11n(HT20)	CH116	16.43	43.95	250	Pass
11n(HT20)	CH140	16.46	44.26	250	Pass
11n(HT40)	CH102	15.75	37.58	250	Pass
11n(HT40)	CH118	17.84	60.81	250	Pass
11n(HT40)	CH134	17.86	61.09	250	Pass
11ac(VHT20)	CH100	16.21	41.78	250	Pass
11ac(VHT20)	CH116	16.34	43.05	250	Pass
11ac(VHT20)	CH140	16.13	41.02	250	Pass
11ac(VHT40)	CH102	15.75	37.58	250	Pass
11ac(VHT40)	CH118	17.92	61.94	250	Pass
11ac(VHT40)	CH134	17.71	59.02	250	Pass
11ac(VHT80)	CH106	13.93	24.72	250	Pass
11ac(VHT80)	CH122	16.03	40.09	250	Pass
11ax(HE20)(SU)	CH100	15.17	32.89	250	Pass
11ax(HE20)(SU)	CH116	15.47	35.24	250	Pass
11ax(HE20)(SU)	CH140	15.32	34.04	250	Pass
11ax(HE40)(SU)	CH102	15.06	32.06	250	Pass
11ax(HE40)(SU)	CH118	14.96	31.33	250	Pass
11ax(HE40)(SU)	CH134	14.77	29.99	250	Pass
11ax(HE80)(SU)	CH106	14.22	26.42	250	Pass
11ax(HE80)(SU)	CH122	14.31	26.98	250	Pass

U-NII-2C (5470 - 5725 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH100	26	8.17	6.56	250	Pass
		52	10.31	10.74	250	Pass
		106	10.39	10.94	250	Pass
	CH116	26	8.33	6.81	250	Pass
		52	10.35	10.84	250	Pass
		106	10.39	10.94	250	Pass
	CH140	26	8.46	7.01	250	Pass
		52	10.24	10.57	250	Pass
		106	10.33	10.79	250	Pass
11ax(HE40)	CH102	26	8.18	6.58	250	Pass
		52	10.43	11.04	250	Pass
		106	10.32	10.76	250	Pass
		242	12.33	17.10	250	Pass
	CH118	26	8.22	6.64	250	Pass
		52	10.44	11.07	250	Pass
		106	10.40	10.96	250	Pass
		242	12.47	17.66	250	Pass
	CH134	26	8.08	6.43	250	Pass
		52	10.32	10.76	250	Pass
		106	10.41	10.99	250	Pass
		242	12.36	17.22	250	Pass
11ax(HE80)	CH106	26	8.31	6.78	250	Pass
		52	10.44	11.07	250	Pass
		106	10.44	11.07	250	Pass
		242	12.39	17.34	250	Pass
		484	12.05	16.03	250	Pass
	CH122	26	8.49	7.06	250	Pass
		52	10.35	10.84	250	Pass
		106	10.36	10.86	250	Pass
		242	12.39	17.34	250	Pass
		484	12.48	17.70	250	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	16.38	43.45	1000	Pass
11a	CH157	16.37	43.35	1000	Pass
11a	CH165	16.53	44.98	1000	Pass
11n(HT20)	CH149	16.21	41.78	1000	Pass
11n(HT20)	CH157	16.45	44.16	1000	Pass
11n(HT20)	CH165	16.29	42.56	1000	Pass
11n(HT40)	CH151	17.69	58.75	1000	Pass
11n(HT40)	CH159	17.87	61.24	1000	Pass
11ac(VHT20)	CH149	16.33	42.95	1000	Pass
11ac(VHT20)	CH157	16.30	42.66	1000	Pass
11ac(VHT20)	CH165	16.26	42.27	1000	Pass
11ac(VHT40)	CH151	17.15	51.88	1000	Pass
11ac(VHT40)	CH159	17.31	53.83	1000	Pass
11ac(VHT80)	CH155	15.50	35.48	1000	Pass
11ax(HE20)(SU)	CH149	15.16	32.81	1000	Pass
11ax(HE20)(SU)	CH157	15.31	33.96	1000	Pass
11ax(HE20)(SU)	CH165	15.36	34.36	1000	Pass
11ax(HE40)(SU)	CH151	14.76	29.92	1000	Pass
11ax(HE40)(SU)	CH159	14.92	31.05	1000	Pass
11ax(HE80)(SU)	CH155	14.06	25.47	1000	Pass

U-NII-3 (5725 - 5850 MHz)						
Mode	Channel	RU Config	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11ax(HE20)	CH149	26	12.42	17.46	1000	Pass
		52	12.28	16.90	1000	Pass
		106	12.42	17.46	1000	Pass
	CH157	26	12.45	17.58	1000	Pass
		52	12.27	16.87	1000	Pass
		106	12.38	17.30	1000	Pass
	CH165	26	12.41	17.42	1000	Pass
		52	12.22	16.67	1000	Pass
		106	12.38	17.30	1000	Pass
11ax(HE40)	CH151	26	12.45	17.58	1000	Pass
		52	12.21	16.63	1000	Pass
		106	12.33	17.10	1000	Pass
		242	12.34	17.14	1000	Pass
	CH159	26	12.45	17.58	1000	Pass
		52	12.27	16.87	1000	Pass
		106	12.46	17.62	1000	Pass
		242	12.38	17.30	1000	Pass
11ax(HE80)	CH155	26	12.38	17.30	1000	Pass
		52	12.27	16.87	1000	Pass
		106	12.40	17.38	1000	Pass
		242	12.32	17.06	1000	Pass
		484	12.13	16.33	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2590705-604 Data Part 1.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	21.65	16.51
11a	CH44	20.47	16.48
11a	CH48	20.99	16.49
11n(HT20)	CH36	22.23	17.69
11n(HT20)	CH44	21.32	17.68
11n(HT20)	CH48	21.81	17.68
11n(HT40)	CH38	42.34	36.29
11n(HT40)	CH46	45.44	37.08
11ac(VHT20)	CH36	22.41	17.68
11ac(VHT20)	CH44	21.44	17.65
11ac(VHT20)	CH48	21.68	17.66
11ac(VHT40)	CH38	41.25	36.30
11ac(VHT40)	CH46	41.24	36.27
11ac(VHT80)	CH42	80.17	75.71
11ax(HE20)(SU)	CH36	22.24	18.97
11ax(HE20)(SU)	CH44	21.44	18.96
11ax(HE20)(SU)	CH48	21.61	18.94
11ax(HE40)(SU)	CH38	39.70	37.70
11ax(HE40)(SU)	CH46	39.75	37.67
11ax(HE80)(SU)	CH42	80.58	77.34

U-NII-2A (5250 - 5350 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH52	20.75	16.49
11a	CH60	20.88	16.53
11a	CH64	20.79	16.50
11n(HT20)	CH52	21.36	17.66
11n(HT20)	CH60	21.83	17.71
11n(HT20)	CH64	21.51	17.70
11n(HT40)	CH54	42.32	36.41
11n(HT40)	CH62	42.26	36.34
11ac(VHT20)	CH52	21.47	17.65
11ac(VHT20)	CH60	21.77	17.69
11ac(VHT20)	CH64	21.43	17.67
11ac(VHT40)	CH54	41.15	36.28
11ac(VHT40)	CH62	42.34	36.25
11ac(VHT80)	CH58	80.33	75.87
11ax(HE20)(SU)	CH52	21.93	18.95
11ax(HE20)(SU)	CH60	22.53	18.97
11ax(HE20)(SU)	CH64	21.88	18.95
11ax(HE40)(SU)	CH54	39.68	37.66
11ax(HE40)(SU)	CH62	39.70	37.69
11ax(HE80)(SU)	CH58	80.53	77.41

U-NII-2C (5470 - 5725 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH100	20.99	16.52
11a	CH116	20.51	16.50
11a	CH140	20.81	16.52
11n(HT20)	CH100	21.79	17.68
11n(HT20)	CH116	21.42	17.68
11n(HT20)	CH140	21.56	17.69
11n(HT40)	CH102	45.60	36.33
11n(HT40)	CH118	45.58	36.39
11n(HT40)	CH134	46.71	36.46
11ac(VHT20)	CH100	21.41	17.67
11ac(VHT20)	CH116	21.22	17.68
11ac(VHT20)	CH140	21.69	17.68
11ac(VHT40)	CH102	41.83	36.29
11ac(VHT40)	CH118	41.27	36.34
11ac(VHT40)	CH134	46.15	36.37
11ac(VHT80)	CH106	88.98	75.72
11ac(VHT80)	CH122	80.15	75.56
11ax(HE20)(SU)	CH100	22.45	18.97
11ax(HE20)(SU)	CH116	22.12	18.94
11ax(HE20)(SU)	CH140	21.81	18.97
11ax(HE40)(SU)	CH102	39.72	37.71
11ax(HE40)(SU)	CH118	39.68	37.67
11ax(HE40)(SU)	CH134	39.67	37.74
11ax(HE80)(SU)	CH106	80.50	77.12
11ax(HE80)(SU)	CH122	80.49	77.26

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.92	16.51
11a	CH157	20.73	16.50
11a	CH165	21.86	16.49
11n(HT20)	CH149	21.63	17.68
11n(HT20)	CH157	21.47	17.68
11n(HT20)	CH165	22.57	17.71
11n(HT40)	CH151	42.04	36.38
11n(HT40)	CH159	40.84	36.43
11ac(VHT20)	CH149	21.88	17.66
11ac(VHT20)	CH157	21.32	17.64
11ac(VHT20)	CH165	21.60	17.65
11ac(VHT40)	CH151	41.29	36.32
11ac(VHT40)	CH159	41.24	36.33
11ac(VHT80)	CH155	80.19	75.50
11ax(HE20)(SU)	CH149	22.17	18.95
11ax(HE20)(SU)	CH157	21.77	18.95
11ax(HE20)(SU)	CH165	21.53	18.93
11ax(HE40)(SU)	CH151	39.74	37.69
11ax(HE40)(SU)	CH159	39.72	37.68
11ax(HE80)(SU)	CH155	80.41	77.13

A.3 6 dB Bandwidth

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2590705-604 Data Part 2.pdf”.

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.20	500.00	Pass
11a	CH157	15.50	500.00	Pass
11a	CH165	16.30	500.00	Pass
11n(HT20)	CH149	15.90	500.00	Pass
11n(HT20)	CH157	16.50	500.00	Pass
11n(HT20)	CH165	15.60	500.00	Pass
11n(HT40)	CH151	35.40	500.00	Pass
11n(HT40)	CH159	35.60	500.00	Pass
11ac(VHT20)	CH149	17.70	500.00	Pass
11ac(VHT20)	CH157	16.20	500.00	Pass
11ac(VHT20)	CH165	15.30	500.00	Pass
11ac(VHT40)	CH151	35.30	500.00	Pass
11ac(VHT40)	CH159	35.30	500.00	Pass
11ac(VHT80)	CH155	75.30	500.00	Pass
11ax(HE20)(SU)	CH149	18.70	500.00	Pass
11ax(HE20)(SU)	CH157	18.60	500.00	Pass
11ax(HE20)(SU)	CH165	17.70	500.00	Pass
11ax(HE40)(SU)	CH151	37.90	500.00	Pass
11ax(HE40)(SU)	CH159	37.90	500.00	Pass
11ax(HE80)(SU)	CH155	77.80	500.00	Pass

A.4 Power Spectral Density

Note ¹: Test plots please refer to the document “Annex No.: BL-SZ2590705-604 Data Part 3.pdf”.

Test Data

U-NII-1 (5150 - 5250 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH36	5.82	11.00	Pass
11a	CH44	6.07	11.00	Pass
11a	CH48	6.25	11.00	Pass
11n(HT20)	CH36	5.27	11.00	Pass
11n(HT20)	CH44	5.66	11.00	Pass
11n(HT20)	CH48	5.70	11.00	Pass
11n(HT40)	CH38	1.29	11.00	Pass
11n(HT40)	CH46	3.90	11.00	Pass
11ac(VHT20)	CH36	5.35	11.00	Pass
11ac(VHT20)	CH44	5.55	11.00	Pass
11ac(VHT20)	CH48	5.60	11.00	Pass
11ac(VHT40)	CH38	1.03	11.00	Pass
11ac(VHT40)	CH46	3.40	11.00	Pass
11ac(VHT80)	CH42	-4.74	11.00	Pass
11ax(HE20)(SU)	CH36	4.17	11.00	Pass
11ax(HE20)(SU)	CH44	4.39	11.00	Pass
11ax(HE20)(SU)	CH48	4.56	11.00	Pass
11ax(HE40)(SU)	CH38	0.68	11.00	Pass
11ax(HE40)(SU)	CH46	0.94	11.00	Pass
11ax(HE80)(SU)	CH42	-4.61	11.00	Pass

U-NII-1 (5150 - 5250 MHz)					
Mode	Channel	RU Config	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH36	26	5.47	11.00	Pass
		52	6.93	11.00	Pass
		106	3.38	11.00	Pass
	CH44	26	5.55	11.00	Pass
		52	6.71	11.00	Pass
		106	3.40	11.00	Pass
	CH48	26	5.65	11.00	Pass
		52	6.94	11.00	Pass
		106	3.79	11.00	Pass
11ax(HE40)	CH38	26	5.59	11.00	Pass
		52	6.88	11.00	Pass
		106	3.44	11.00	Pass
		242	0.50	11.00	Pass
	CH46	26	5.74	11.00	Pass
		52	6.75	11.00	Pass
		106	3.73	11.00	Pass
		242	1.16	11.00	Pass
11ax(HE80)	CH42	26	5.46	11.00	Pass
		52	7.00	11.00	Pass
		106	3.47	11.00	Pass
		242	0.99	11.00	Pass
		484	-2.02	11.00	Pass

U-NII-2A (5250 - 5350 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH52	4.95	11.00	Pass
11a	CH60	4.61	11.00	Pass
11a	CH64	4.60	11.00	Pass
11n(HT20)	CH52	4.61	11.00	Pass
11n(HT20)	CH60	4.23	11.00	Pass
11n(HT20)	CH64	4.37	11.00	Pass
11n(HT40)	CH54	4.05	11.00	Pass
11n(HT40)	CH62	-0.98	11.00	Pass
11ac(VHT20)	CH52	4.71	11.00	Pass
11ac(VHT20)	CH60	4.23	11.00	Pass
11ac(VHT20)	CH64	4.25	11.00	Pass
11ac(VHT40)	CH54	3.40	11.00	Pass
11ac(VHT40)	CH62	-0.88	11.00	Pass
11ac(VHT80)	CH58	-7.11	11.00	Pass
11ax(HE20)(SU)	CH52	4.53	11.00	Pass
11ax(HE20)(SU)	CH60	4.00	11.00	Pass
11ax(HE20)(SU)	CH64	4.11	11.00	Pass
11ax(HE40)(SU)	CH54	0.91	11.00	Pass
11ax(HE40)(SU)	CH62	-0.94	11.00	Pass
11ax(HE80)(SU)	CH58	-7.23	11.00	Pass

U-NII-2A (5250 - 5350 MHz)					
Mode	Channel	RU Config	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH52	26	7.72	11.00	Pass
		52	5.06	11.00	Pass
		106	3.81	11.00	Pass
	CH60	26	7.49	11.00	Pass
		52	5.04	11.00	Pass
		106	3.68	11.00	Pass
	CH64	26	7.88	11.00	Pass
		52	5.15	11.00	Pass
		106	3.86	11.00	Pass
11ax(HE40)	CH54	26	7.75	11.00	Pass
		52	5.16	11.00	Pass
		106	3.79	11.00	Pass
		242	1.17	11.00	Pass
	CH62	26	7.81	11.00	Pass
		52	5.53	11.00	Pass
		106	4.01	11.00	Pass
		242	1.43	11.00	Pass
11ax(HE80)	CH58	26	7.92	11.00	Pass
		52	5.26	11.00	Pass
		106	3.91	11.00	Pass
		242	1.44	11.00	Pass
		484	-1.79	11.00	Pass

U-NII-2C (5470 - 5725 MHz)				
Mode	Channel	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11a	CH100	5.52	11.00	Pass
11a	CH116	5.83	11.00	Pass
11a	CH140	5.55	11.00	Pass
11n(HT20)	CH100	5.05	11.00	Pass
11n(HT20)	CH116	5.57	11.00	Pass
11n(HT20)	CH140	5.30	11.00	Pass
11n(HT40)	CH102	1.54	11.00	Pass
11n(HT40)	CH118	4.00	11.00	Pass
11n(HT40)	CH134	3.83	11.00	Pass
11ac(VHT20)	CH100	5.06	11.00	Pass
11ac(VHT20)	CH116	5.65	11.00	Pass
11ac(VHT20)	CH140	5.36	11.00	Pass
11ac(VHT40)	CH102	1.53	11.00	Pass
11ac(VHT40)	CH118	4.01	11.00	Pass
11ac(VHT40)	CH134	3.87	11.00	Pass
11ac(VHT80)	CH106	-3.46	11.00	Pass
11ac(VHT80)	CH122	-1.07	11.00	Pass
11ax(HE20)(SU)	CH100	4.02	11.00	Pass
11ax(HE20)(SU)	CH116	4.38	11.00	Pass
11ax(HE20)(SU)	CH140	4.03	11.00	Pass
11ax(HE40)(SU)	CH102	0.58	11.00	Pass
11ax(HE40)(SU)	CH118	0.90	11.00	Pass
11ax(HE40)(SU)	CH134	0.77	11.00	Pass
11ax(HE80)(SU)	CH106	-3.42	11.00	Pass
11ax(HE80)(SU)	CH122	-3.03	11.00	Pass

U-NII-2C (5470 - 5725 MHz)					
Mode	Channel	RU Config	PSD (dBm/MHz)	FCC Limit (dBm/MHz)	Verdict
11ax(HE20)	CH100	26	5.63	11.00	Pass
		52	5.03	11.00	Pass
		106	2.03	11.00	Pass
	CH116	26	5.74	11.00	Pass
		52	5.13	11.00	Pass
		106	2.28	11.00	Pass
	CH140	26	5.76	11.00	Pass
		52	4.65	11.00	Pass
		106	1.63	11.00	Pass
11ax(HE40)	CH102	26	5.68	11.00	Pass
		52	4.97	11.00	Pass
		106	2.02	11.00	Pass
		242	0.91	11.00	Pass
	CH118	26	5.84	11.00	Pass
		52	5.16	11.00	Pass
		106	2.17	11.00	Pass
		242	1.02	11.00	Pass
	CH134	26	5.29	11.00	Pass
		52	4.75	11.00	Pass
		106	1.81	11.00	Pass
		242	0.85	11.00	Pass
11ax(HE80)	CH106	26	5.61	11.00	Pass
		52	4.88	11.00	Pass
		106	1.97	11.00	Pass
		242	1.05	11.00	Pass
		484	-2.00	11.00	Pass
	CH122	26	5.90	11.00	Pass
		52	4.73	11.00	Pass
		106	1.72	11.00	Pass
		242	0.91	11.00	Pass
		484	-1.87	11.00	Pass

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	2.71	30.00	Pass
11a	CH157	2.93	30.00	Pass
11a	CH165	2.76	30.00	Pass
11n(HT20)	CH149	2.41	30.00	Pass
11n(HT20)	CH157	2.66	30.00	Pass
11n(HT20)	CH165	2.53	30.00	Pass
11n(HT40)	CH151	0.82	30.00	Pass
11n(HT40)	CH159	0.78	30.00	Pass
11ac(VHT20)	CH149	2.39	30.00	Pass
11ac(VHT20)	CH157	2.59	30.00	Pass
11ac(VHT20)	CH165	2.53	30.00	Pass
11ac(VHT40)	CH151	0.22	30.00	Pass
11ac(VHT40)	CH159	0.16	30.00	Pass
11ac(VHT80)	CH155	-4.44	30.00	Pass
11ax(HE20)(SU)	CH149	1.14	30.00	Pass
11ax(HE20)(SU)	CH157	1.25	30.00	Pass
11ax(HE20)(SU)	CH165	1.38	30.00	Pass
11ax(HE40)(SU)	CH151	-2.37	30.00	Pass
11ax(HE40)(SU)	CH159	-2.30	30.00	Pass
11ax(HE80)(SU)	CH155	-5.97	30.00	Pass

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	RU Config	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11ax(HE20)	CH149	26	6.91	30.00	Pass
		52	3.67	30.00	Pass
		106	0.86	30.00	Pass
	CH157	26	6.75	30.00	Pass
		52	3.72	30.00	Pass
		106	0.84	30.00	Pass
	CH165	26	6.96	30.00	Pass
		52	3.91	30.00	Pass
		106	0.91	30.00	Pass
11ax(HE40)	CH151	26	6.84	30.00	Pass
		52	3.64	30.00	Pass
		106	0.32	30.00	Pass
		242	-2.00	30.00	Pass
	CH159	26	7.09	30.00	Pass
		52	4.09	30.00	Pass
		106	1.00	30.00	Pass
		242	-1.77	30.00	Pass
11ax(HE80)	CH155	26	6.56	30.00	Pass
		52	3.85	30.00	Pass
		106	0.89	30.00	Pass
		242	-1.85	30.00	Pass
		484	-4.82	30.00	Pass

A.5 Conducted Emissions

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

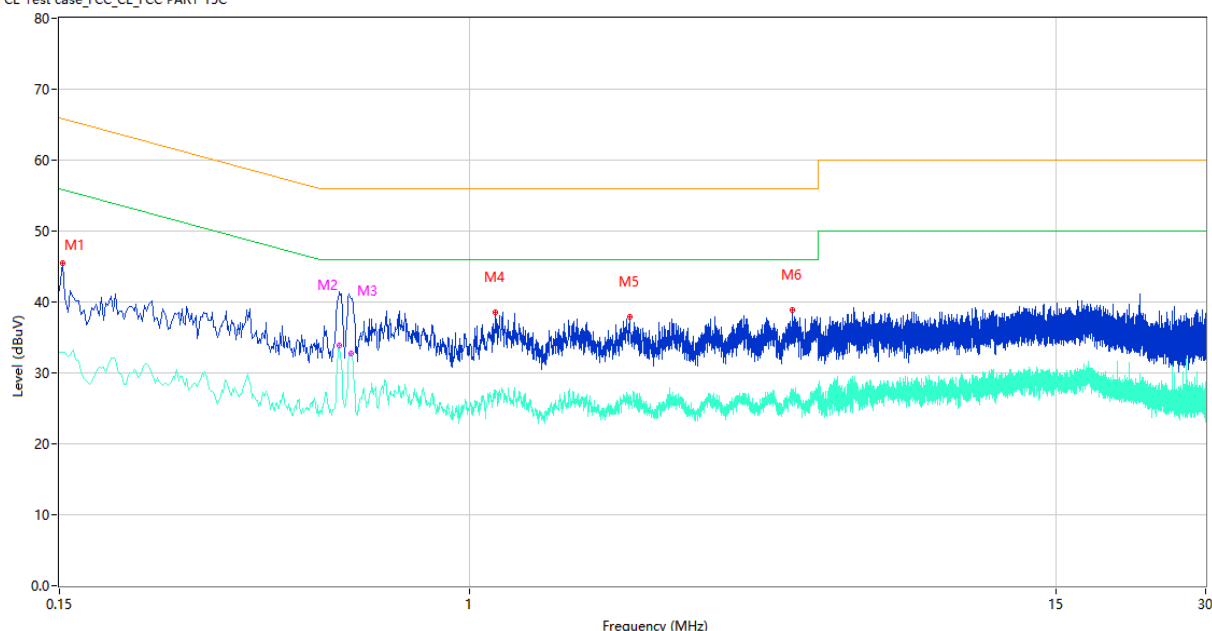
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

PHASE L

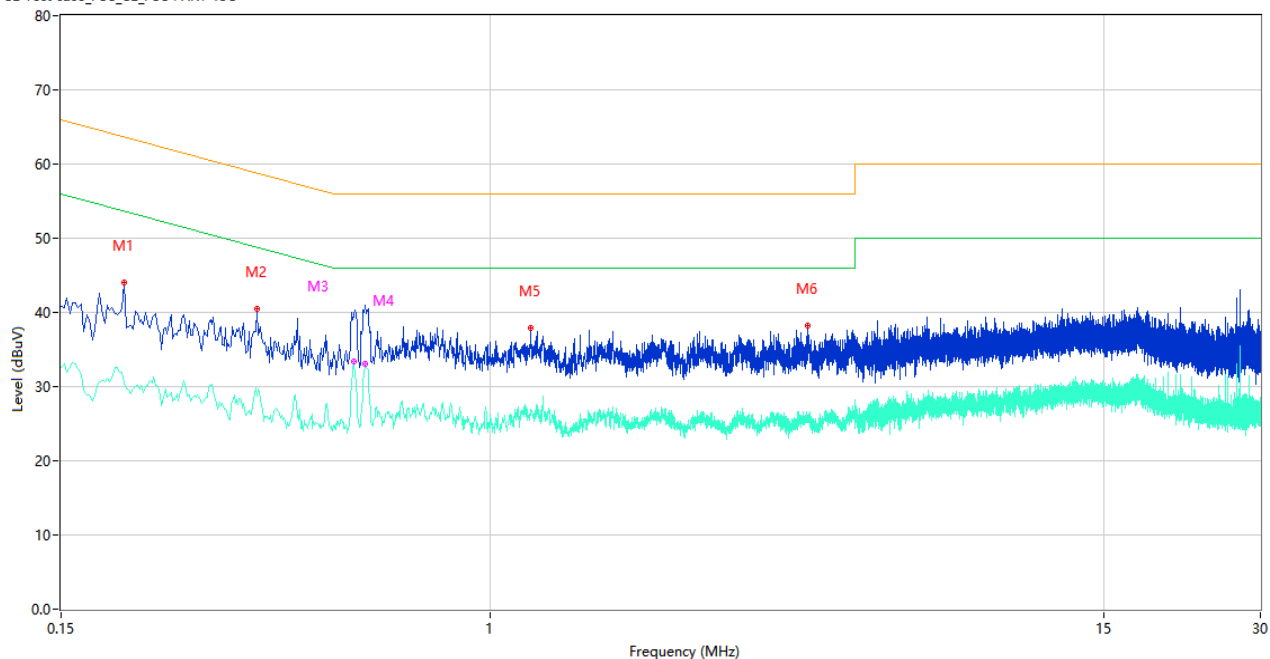
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.152	45.56	9.86	65.89	20.33	Peak	L	Pass
1**	0.152	32.86	9.86	55.89	23.03	AV	L	Pass
2	0.548	41.40	10.08	56.00	14.60	Peak	L	Pass
2**	0.548	33.81	10.08	46.00	12.19	AV	L	Pass
3	0.578	40.43	10.16	56.00	15.57	Peak	L	Pass
3**	0.578	32.82	10.16	46.00	13.18	AV	L	Pass
4	1.126	38.59	10.28	56.00	17.41	Peak	L	Pass
4**	1.126	27.61	10.28	46.00	18.39	AV	L	Pass
5	2.090	37.88	10.05	56.00	18.12	Peak	L	Pass
5**	2.090	25.86	10.05	46.00	20.14	AV	L	Pass
6	4.440	38.84	10.14	56.00	17.16	Peak	L	Pass
6**	4.440	26.01	10.14	46.00	19.99	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.198	43.99	9.84	63.69	19.70	Peak	N	Pass
1**	0.198	30.50	9.84	53.69	23.19	AV	N	Pass
2	0.356	40.48	10.79	58.82	18.34	Peak	N	Pass
2**	0.356	28.67	10.79	48.82	20.15	AV	N	Pass
3	0.546	39.54	10.08	56.00	16.46	Peak	N	Pass
3**	0.546	33.44	10.08	46.00	12.56	AV	N	Pass
4	0.576	41.03	10.16	56.00	14.97	Peak	N	Pass
4**	0.576	33.07	10.16	46.00	12.93	AV	N	Pass
5	1.194	37.87	10.00	56.00	18.13	Peak	N	Pass
5**	1.194	26.82	10.00	46.00	19.18	AV	N	Pass
6	4.064	38.19	10.43	56.00	17.81	Peak	N	Pass
6**	4.064	25.92	10.43	46.00	20.08	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.

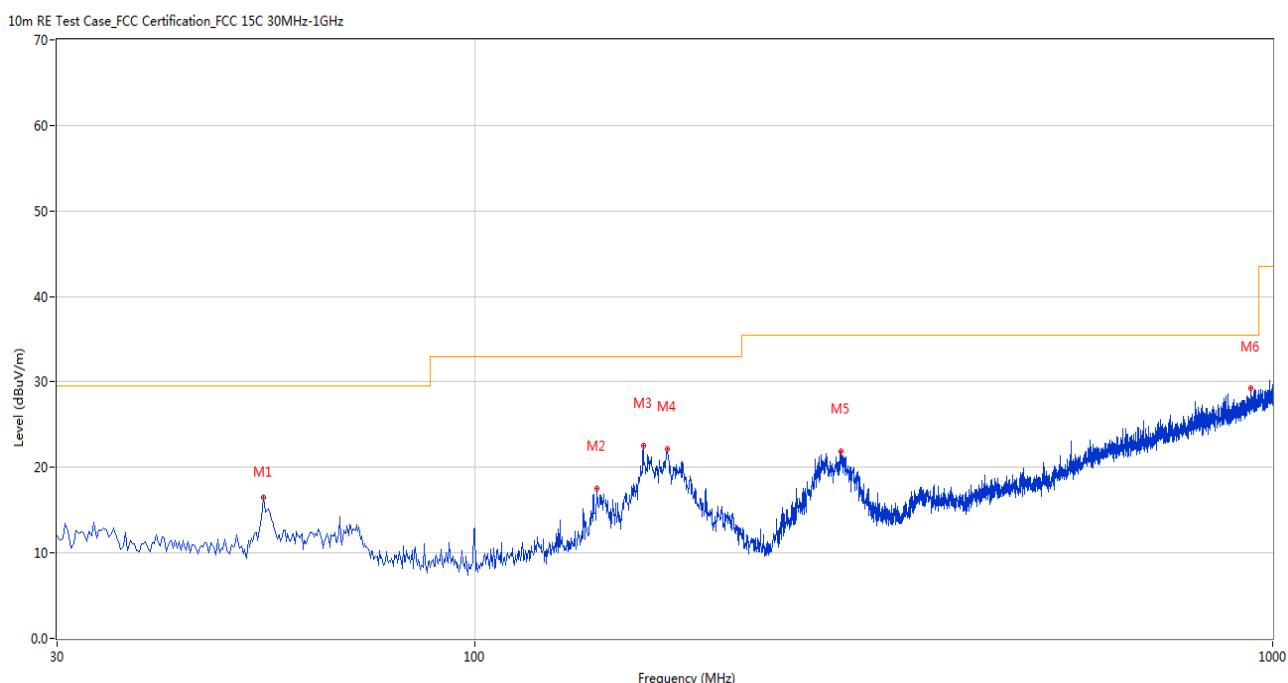
Note ²: For the test data above 1 GHz, According the ANSI C63.10, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

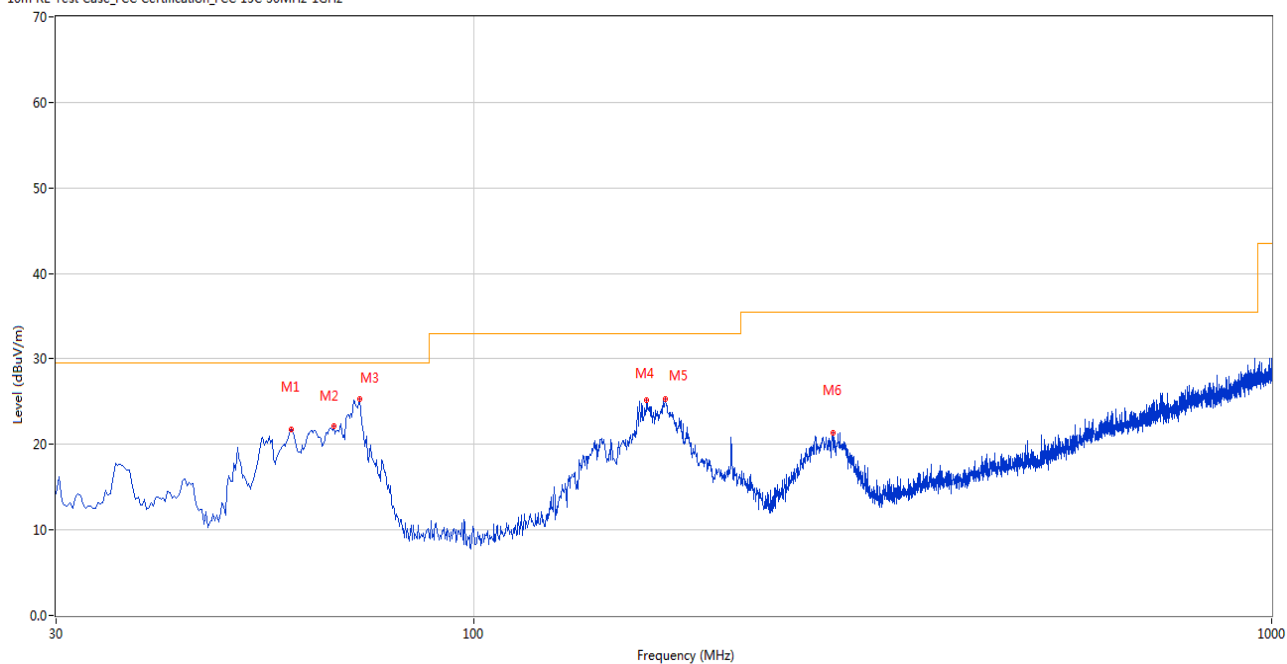
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.486	16.44	-27.12	29.5	13.06	Peak	359.00	200	Horizontal	Pass
2	142.249	17.60	-26.71	33.0	15.40	Peak	117.00	200	Horizontal	Pass
3	162.857	22.54	-26.25	33.0	10.46	Peak	275.00	200	Horizontal	Pass
4	174.251	22.18	-27.30	33.0	10.82	Peak	291.00	200	Horizontal	Pass
5	287.956	21.94	-25.91	35.5	13.56	Peak	101.00	200	Horizontal	Pass
6	938.178	29.21	-9.73	35.5	6.29	Peak	102.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	59.093	21.74	-27.31	29.5	7.76	Peak	360.00	200	Vertical	Pass
2	66.851	22.15	-28.71	29.5	7.35	Peak	216.00	200	Vertical	Pass
3	71.942	25.36	-29.24	29.5	4.14	Peak	308.00	200	Vertical	Pass
4	164.796	25.21	-26.21	33.0	7.79	Peak	14.00	100	Vertical	Pass
5	173.767	25.27	-27.23	33.0	7.73	Peak	291.00	100	Vertical	Pass
6	281.895	21.42	-26.12	35.5	14.08	Peak	101.00	100	Vertical	Pass

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

Note ²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ³: All antenna were pre tested, but only the worst case has been reported in this report.

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	1536.000	38.22	74.0	35.78	Peak	327.00	400	Horizontal	Pass
1**	1536.000	29.55	54.0	24.45	AV	327.00	400	Horizontal	Pass
2	4335.500	47.63	74.0	26.37	Peak	115.00	100	Horizontal	Pass
2**	4335.500	38.42	54.0	15.58	AV	115.00	100	Horizontal	Pass
3	5181.750	108.67	--	--	Peak	35.00	200	Horizontal	N/A
3**	5181.750	101.53	--	--	AV	35.00	200	Horizontal	N/A
4	7618.500	53.28	74.0	20.72	Peak	360.00	300	Horizontal	Pass
4**	7618.500	43.74	54.0	10.26	AV	360.00	300	Horizontal	Pass
5	12492.787	53.28	74.0	20.72	Peak	94.00	150	Horizontal	Pass
5**	12492.787	44.46	54.0	9.54	AV	94.00	150	Horizontal	Pass
6	16099.237	53.71	74.0	20.29	Peak	327.00	400	Horizontal	Pass
6**	16099.237	45.91	54.0	8.09	AV	327.00	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	1544.800	39.29	74.0	34.71	Peak	130.00	300	Vertical	Pass
1**	1544.800	29.90	54.0	24.10	AV	130.00	300	Vertical	Pass
2	4357.000	48.12	74.0	25.88	Peak	331.00	400	Vertical	Pass
2**	4357.000	38.47	54.0	15.53	AV	331.00	400	Vertical	Pass
3	5179.000	108.43	--	--	Peak	35.00	150	Vertical	N/A
3**	5179.000	101.44	--	--	AV	35.00	150	Vertical	N/A
4	7354.000	53.02	74.0	20.98	Peak	212.00	300	Vertical	Pass
4**	7354.000	44.68	54.0	9.32	AV	212.00	300	Vertical	Pass
5	12425.338	53.20	74.0	20.80	Peak	339.00	200	Vertical	Pass
5**	12425.338	44.63	54.0	9.37	AV	339.00	200	Vertical	Pass
6	15453.225	53.48	74.0	20.52	Peak	0.00	200	Vertical	Pass
6**	15453.225	44.06	54.0	9.94	AV	0.00	200	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	1540.300	38.97	74.0	35.03	Peak	179.00	300	Horizontal	Pass
1**	1540.300	28.80	54.0	25.20	AV	179.00	300	Horizontal	Pass
2	4048.250	47.40	74.0	26.60	Peak	360.00	400	Horizontal	Pass
2**	4048.250	37.41	54.0	16.59	AV	360.00	400	Horizontal	Pass
3	5212.250	109.04	--	--	Peak	26.00	150	Horizontal	N/A
3**	5212.250	101.15	--	--	AV	26.00	150	Horizontal	N/A
4	7488.250	53.56	74.0	20.44	Peak	152.00	100	Horizontal	Pass
4**	7488.250	43.74	54.0	10.26	AV	152.00	100	Horizontal	Pass
5	12482.099	53.80	74.0	20.20	Peak	268.00	200	Horizontal	Pass
5**	12482.099	45.07	54.0	8.93	AV	268.00	200	Horizontal	Pass
6	16096.874	54.78	74.0	19.22	Peak	331.00	200	Horizontal	Pass
6**	16096.874	45.35	54.0	8.65	AV	331.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1465.100	39.15	74.0	34.85	Peak	11.00	200	Vertical	Pass
1**	1465.100	29.69	54.0	24.31	AV	11.00	200	Vertical	Pass
2	4399.750	47.20	74.0	26.80	Peak	132.00	100	Vertical	Pass
2**	4399.750	37.32	54.0	16.68	AV	132.00	100	Vertical	Pass
3	5221.750	97.41	--	--	Peak	26.00	150	Vertical	N/A
3**	5221.750	89.70	--	--	AV	26.00	150	Vertical	N/A
4	7709.000	53.21	74.0	20.79	Peak	26.00	200	Vertical	Pass
4**	7709.000	43.72	54.0	10.28	AV	26.00	200	Vertical	Pass
5	12504.901	53.71	74.0	20.29	Peak	14.00	200	Vertical	Pass
5**	12504.901	44.53	54.0	9.47	AV	14.00	200	Vertical	Pass
6	15659.550	54.83	74.0	19.17	Peak	127.00	400	Vertical	Pass
6**	15659.550	45.84	54.0	8.16	AV	127.00	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	1621.100	39.00	74.0	35.00	Peak	2.00	400	Horizontal	Pass
1**	1621.100	29.88	54.0	24.12	AV	2.00	400	Horizontal	Pass
2	4322.500	47.08	74.0	26.92	Peak	321.00	200	Horizontal	Pass
2**	4322.500	38.85	54.0	15.15	AV	321.00	200	Horizontal	Pass
3	5241.000	108.02	--	--	Peak	26.00	150	Horizontal	N/A
3**	5241.000	100.31	--	--	AV	26.00	150	Horizontal	N/A
4	7646.500	53.07	74.0	20.93	Peak	84.00	300	Horizontal	Pass
4**	7646.500	43.44	54.0	10.56	AV	84.00	300	Horizontal	Pass
5	12459.537	53.68	74.0	20.32	Peak	358.00	100	Horizontal	Pass
5**	12459.537	43.65	54.0	10.35	AV	358.00	100	Horizontal	Pass
6	16115.512	54.03	74.0	19.97	Peak	319.00	100	Horizontal	Pass
6**	16115.512	45.11	54.0	8.89	AV	319.00	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	1516.200	38.19	74.0	35.81	Peak	63.00	100	Vertical	Pass
1**	1516.200	28.80	54.0	25.20	AV	63.00	100	Vertical	Pass
2	4368.250	46.88	74.0	27.12	Peak	173.00	200	Vertical	Pass
2**	4368.250	37.95	54.0	16.05	AV	173.00	200	Vertical	Pass
3	5238.750	98.44	--	--	Peak	26.00	150	Vertical	N/A
3**	5238.750	88.88	--	--	AV	26.00	150	Vertical	N/A
4	7423.250	53.03	74.0	20.97	Peak	173.00	400	Vertical	Pass
4**	7423.250	45.53	54.0	8.47	AV	173.00	400	Vertical	Pass
5	12466.187	53.45	74.0	20.55	Peak	356.00	150	Vertical	Pass
5**	12466.187	44.31	54.0	9.69	AV	356.00	150	Vertical	Pass
6	15712.838	55.88	74.0	18.12	Peak	77.00	400	Vertical	Pass
6**	15712.838	47.21	54.0	6.79	AV	77.00	400	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	1516.200	38.19	74.0	35.81	Peak	63.00	100	Vertical	Pass
1**	1516.200	28.80	54.0	25.20	AV	63.00	100	Vertical	Pass
2	4368.250	46.88	74.0	27.12	Peak	173.00	200	Vertical	Pass
2**	4368.250	37.95	54.0	16.05	AV	173.00	200	Vertical	Pass
3	5238.750	98.44	--	--	Peak	26.00	150	Vertical	N/A
3**	5238.750	88.88	--	--	AV	26.00	150	Vertical	N/A
4	7423.250	53.03	74.0	20.97	Peak	173.00	400	Vertical	Pass
4**	7423.250	45.53	54.0	8.47	AV	173.00	400	Vertical	Pass
5	12466.187	53.45	74.0	20.55	Peak	356.00	150	Vertical	Pass
5**	12466.187	44.31	54.0	9.69	AV	356.00	150	Vertical	Pass
6	15712.838	55.88	74.0	18.12	Peak	77.00	400	Vertical	Pass
6**	15712.838	47.21	54.0	6.79	AV	77.00	400	Vertical	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	1613.500	39.36	74.0	34.64	Peak	95.00	400	Vertical	Pass
1**	1613.500	29.26	54.0	24.74	AV	95.00	400	Vertical	Pass
2	4295.000	46.99	74.0	27.01	Peak	353.00	300	Vertical	Pass
2**	4295.000	36.95	54.0	17.05	AV	353.00	300	Vertical	Pass
3	5180.250	98.14	--	--	Peak	26.00	100	Vertical	N/A
3**	5180.250	89.55	--	--	AV	26.00	100	Vertical	N/A
4	7358.750	54.20	74.0	19.80	Peak	271.00	100	Vertical	Pass
4**	7358.750	45.19	54.0	8.81	AV	271.00	100	Vertical	Pass
5	12510.363	53.05	74.0	20.95	Peak	269.00	100	Vertical	Pass
5**	12510.363	44.13	54.0	9.87	AV	269.00	100	Vertical	Pass
6	15696.562	53.95	74.0	20.05	Peak	276.00	400	Vertical	Pass
6**	15696.562	44.98	54.0	9.02	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	1444.300	38.02	74.0	35.98	Peak	57.00	100	Horizontal	Pass
1**	1444.300	28.43	54.0	25.57	AV	57.00	100	Horizontal	Pass
2	4363.750	47.53	74.0	26.47	Peak	111.00	200	Horizontal	Pass
2**	4363.750	37.90	54.0	16.10	AV	111.00	200	Horizontal	Pass
3	5214.250	108.64	--	--	Peak	26.00	200	Horizontal	N/A
3**	5214.250	100.43	--	--	AV	26.00	200	Horizontal	N/A
4	7584.250	53.71	74.0	20.29	Peak	26.00	400	Horizontal	Pass
4**	7584.250	44.12	54.0	9.88	AV	26.00	400	Horizontal	Pass
5	12479.250	54.05	74.0	19.95	Peak	307.00	150	Horizontal	Pass
5**	12479.250	44.48	54.0	9.52	AV	307.00	150	Horizontal	Pass
6	15919.688	54.43	74.0	19.57	Peak	329.00	100	Horizontal	Pass
6**	15919.688	44.60	54.0	9.40	AV	329.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1514.800	38.29	74.0	35.71	Peak	322.00	300	Vertical	Pass
1**	1514.800	29.47	54.0	24.53	AV	322.00	300	Vertical	Pass
2	4251.500	47.12	74.0	26.88	Peak	273.00	100	Vertical	Pass
2**	4251.500	37.25	54.0	16.75	AV	273.00	100	Vertical	Pass
3	5213.000	97.07	--	--	Peak	26.00	100	Vertical	N/A
3**	5213.000	87.86	--	--	AV	26.00	100	Vertical	N/A
4	7412.750	52.79	74.0	21.21	Peak	360.00	400	Vertical	Pass
4**	7412.750	43.17	54.0	10.83	AV	360.00	400	Vertical	Pass
5	12484.712	53.38	74.0	20.62	Peak	120.00	100	Vertical	Pass
5**	12484.712	44.32	54.0	9.68	AV	120.00	100	Vertical	Pass
6	16112.888	55.41	74.0	18.59	Peak	295.00	100	Vertical	Pass
6**	16112.888	46.24	54.0	7.76	AV	295.00	100	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	1596.600	38.57	74.0	35.43	Peak	308.00	100	Horizontal	Pass
1**	1596.600	28.80	54.0	25.20	AV	308.00	100	Horizontal	Pass
2	4144.000	46.96	74.0	27.04	Peak	181.00	400	Horizontal	Pass
2**	4144.000	37.46	54.0	16.54	AV	181.00	400	Horizontal	Pass
3	5231.500	109.02	--	--	Peak	163.00	100	Horizontal	N/A
3**	5231.500	100.88	--	--	AV	163.00	100	Horizontal	N/A
4	7416.250	53.20	74.0	20.80	Peak	142.00	100	Horizontal	Pass
4**	7416.250	43.08	54.0	10.92	AV	142.00	100	Horizontal	Pass
5	12485.900	53.51	74.0	20.49	Peak	99.00	100	Horizontal	Pass
5**	12485.900	43.81	54.0	10.19	AV	99.00	100	Horizontal	Pass
6	16127.062	54.10	74.0	19.90	Peak	355.00	400	Horizontal	Pass
6**	16127.062	44.76	54.0	9.24	AV	355.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1463.500	38.07	74.0	35.93	Peak	85.00	400	Vertical	Pass
1**	1463.500	28.62	54.0	25.38	AV	85.00	400	Vertical	Pass
2	4127.000	47.19	74.0	26.81	Peak	360.00	400	Vertical	Pass
2**	4127.000	38.34	54.0	15.66	AV	360.00	400	Vertical	Pass
3	5234.750	97.70	--	--	Peak	4.00	100	Vertical	N/A
3**	5234.750	89.16	--	--	AV	4.00	100	Vertical	N/A
4	7606.000	52.89	74.0	21.11	Peak	89.00	300	Vertical	Pass
4**	7606.000	43.86	54.0	10.14	AV	89.00	300	Vertical	Pass
5	12436.263	53.72	74.0	20.28	Peak	178.00	100	Vertical	Pass
5**	12436.263	43.53	54.0	10.47	AV	178.00	100	Vertical	Pass
6	15673.987	54.55	74.0	19.45	Peak	294.00	300	Vertical	Pass
6**	15673.987	44.72	54.0	9.28	AV	294.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1619.400	38.76	74.0	35.24	Peak	237.00	400	Horizontal	Pass
1**	1619.400	29.31	54.0	24.69	AV	237.00	400	Horizontal	Pass
2	4347.000	46.66	74.0	27.34	Peak	360.00	400	Horizontal	Pass
2**	4347.000	37.66	54.0	16.34	AV	360.00	400	Horizontal	Pass
3	5184.750	106.73	--	--	Peak	43.00	200	Horizontal	N/A
3**	5184.750	99.45	--	--	AV	43.00	200	Horizontal	N/A
4	7642.750	53.07	74.0	20.93	Peak	360.00	300	Horizontal	Pass
4**	7642.750	43.78	54.0	10.22	AV	360.00	300	Horizontal	Pass
5	12519.388	52.89	74.0	21.11	Peak	7.00	150	Horizontal	Pass
5**	12519.388	44.17	54.0	9.83	AV	7.00	150	Horizontal	Pass
6	15390.488	54.05	74.0	19.95	Peak	86.00	300	Horizontal	Pass
6**	15390.488	44.14	54.0	9.86	AV	86.00	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	1606.300	38.65	74.0	35.35	Peak	325.00	200	Vertical	Pass
1**	1606.300	29.38	54.0	24.62	AV	325.00	200	Vertical	Pass
2	4356.000	47.09	74.0	26.91	Peak	47.00	200	Vertical	Pass
2**	4356.000	37.82	54.0	16.18	AV	47.00	200	Vertical	Pass
3	5185.250	96.27	--	--	Peak	26.00	150	Vertical	N/A
3**	5185.250	89.14	--	--	AV	26.00	150	Vertical	N/A
4	7584.250	53.17	74.0	20.83	Peak	304.00	100	Vertical	Pass
4**	7584.250	43.70	54.0	10.30	AV	304.00	100	Vertical	Pass
5	12500.388	53.57	74.0	20.43	Peak	257.00	150	Vertical	Pass
5**	12500.388	44.29	54.0	9.71	AV	257.00	150	Vertical	Pass
6	16101.599	54.52	74.0	19.48	Peak	62.00	300	Vertical	Pass
6**	16101.599	45.52	54.0	8.48	AV	62.00	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	1479.900	38.05	74.0	35.95	Peak	65.00	400	Horizontal	Pass
1**	1479.900	28.58	54.0	25.42	AV	65.00	400	Horizontal	Pass
2	4332.000	47.62	74.0	26.38	Peak	301.00	200	Horizontal	Pass
2**	4332.000	37.79	54.0	16.21	AV	301.00	200	Horizontal	Pass
3	5235.500	106.68	--	--	Peak	45.00	200	Horizontal	N/A
3**	5235.500	98.91	--	--	AV	45.00	200	Horizontal	N/A
4	7574.500	52.83	74.0	21.17	Peak	66.00	300	Horizontal	Pass
4**	7574.500	42.72	54.0	11.28	AV	66.00	300	Horizontal	Pass
5	12512.975	53.38	74.0	20.62	Peak	46.00	150	Horizontal	Pass
5**	12512.975	44.11	54.0	9.89	AV	46.00	150	Horizontal	Pass
6	16122.863	54.17	74.0	19.83	Peak	326.00	100	Horizontal	Pass
6**	16122.863	44.40	54.0	9.60	AV	326.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1622.900	38.35	74.0	35.65	Peak	262.00	400	Vertical	Pass
1**	1622.900	28.98	54.0	25.02	AV	262.00	400	Vertical	Pass
2	4273.250	47.53	74.0	26.47	Peak	181.00	100	Vertical	Pass
2**	4273.250	38.14	54.0	15.86	AV	181.00	100	Vertical	Pass
3	5234.500	96.11	--	--	Peak	23.00	150	Vertical	N/A
3**	5234.500	88.01	--	--	AV	23.00	150	Vertical	N/A
4	7368.500	53.11	74.0	20.89	Peak	360.00	100	Vertical	Pass
4**	7368.500	43.77	54.0	10.23	AV	360.00	100	Vertical	Pass
5	12482.338	53.79	74.0	20.21	Peak	296.00	150	Vertical	Pass
5**	12482.338	44.38	54.0	9.62	AV	296.00	150	Vertical	Pass
6	16151.737	54.16	74.0	19.84	Peak	216.00	300	Vertical	Pass
6**	16151.737	44.58	54.0	9.42	AV	216.00	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	1625.000	38.75	74.0	35.25	Peak	276.00	400	Horizontal	Pass
1**	1625.000	29.12	54.0	24.88	AV	276.00	400	Horizontal	Pass
2	4212.750	47.05	74.0	26.95	Peak	341.00	300	Horizontal	Pass
2**	4212.750	37.26	54.0	16.74	AV	341.00	300	Horizontal	Pass
3	5177.500	108.93	--	--	Peak	183.00	150	Horizontal	N/A
3**	5177.500	99.84	--	--	AV	183.00	150	Horizontal	N/A
4	7605.500	52.95	74.0	21.05	Peak	202.00	200	Horizontal	Pass
4**	7605.500	43.96	54.0	10.04	AV	202.00	200	Horizontal	Pass
5	12503.713	53.20	74.0	20.80	Peak	74.00	200	Horizontal	Pass
5**	12503.713	44.96	54.0	9.04	AV	74.00	200	Horizontal	Pass
6	15885.300	54.65	74.0	19.35	Peak	360.00	200	Horizontal	Pass
6**	15885.300	45.32	54.0	8.68	AV	360.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1593.800	38.49	74.0	35.51	Peak	30.00	400	Vertical	Pass
1**	1593.800	28.89	54.0	25.11	AV	30.00	400	Vertical	Pass
2	4252.000	47.09	74.0	26.91	Peak	45.00	300	Vertical	Pass
2**	4252.000	37.58	54.0	16.42	AV	45.00	300	Vertical	Pass
3	5184.250	98.17	--	--	Peak	25.00	200	Vertical	N/A
3**	5184.250	89.13	--	--	AV	25.00	200	Vertical	N/A
4	7606.750	52.92	74.0	21.08	Peak	25.00	100	Vertical	Pass
4**	7606.750	43.98	54.0	10.02	AV	25.00	100	Vertical	Pass
5	12490.412	53.03	74.0	20.97	Peak	246.00	150	Vertical	Pass
5**	12490.412	44.26	54.0	9.74	AV	246.00	150	Vertical	Pass
6	16122.599	54.15	74.0	19.85	Peak	275.00	200	Vertical	Pass
6**	16122.599	44.81	54.0	9.19	AV	275.00	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	1622.600	38.62	74.0	35.38	Peak	196.00	100	Horizontal	Pass
1**	1622.600	29.46	54.0	24.54	AV	196.00	100	Horizontal	Pass
2	4324.000	47.21	74.0	26.79	Peak	299.00	100	Horizontal	Pass
2**	4324.000	37.45	54.0	16.55	AV	299.00	100	Horizontal	Pass
3	5222.250	109.50	--	--	Peak	47.00	100	Horizontal	N/A
3**	5222.250	99.84	--	--	AV	47.00	100	Horizontal	N/A
4	7369.250	53.09	74.0	20.91	Peak	360.00	100	Horizontal	Pass
4**	7369.250	43.62	54.0	10.38	AV	360.00	100	Horizontal	Pass
5	12476.875	53.24	74.0	20.76	Peak	200.00	150	Horizontal	Pass
5**	12476.875	44.04	54.0	9.96	AV	200.00	150	Horizontal	Pass
6	15380.250	53.99	74.0	20.01	Peak	6.00	400	Horizontal	Pass
6**	15380.250	44.39	54.0	9.61	AV	6.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1560.700	38.79	74.0	35.21	Peak	288.00	100	Vertical	Pass
1**	1560.700	29.36	54.0	24.64	AV	288.00	100	Vertical	Pass
2	4338.750	46.77	74.0	27.23	Peak	4.00	200	Vertical	Pass
2**	4338.750	38.27	54.0	15.73	AV	4.00	200	Vertical	Pass
3	5225.250	98.54	--	--	Peak	26.00	150	Vertical	N/A
3**	5225.250	89.14	--	--	AV	26.00	150	Vertical	N/A
4	7649.250	53.07	74.0	20.93	Peak	132.00	100	Vertical	Pass
4**	7649.250	44.06	54.0	9.94	AV	132.00	100	Vertical	Pass
5	12505.375	53.15	74.0	20.85	Peak	266.00	150	Vertical	Pass
5**	12505.375	44.81	54.0	9.19	AV	266.00	150	Vertical	Pass
6	15662.175	54.44	74.0	19.56	Peak	88.00	200	Vertical	Pass
6**	15662.175	46.95	54.0	7.05	AV	88.00	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	1473.700	38.38	74.0	35.62	Peak	216.00	200	Horizontal	Pass
1**	1473.700	28.41	54.0	25.59	AV	216.00	200	Horizontal	Pass
2	4051.250	47.08	74.0	26.92	Peak	25.00	100	Horizontal	Pass
2**	4051.250	37.78	54.0	16.22	AV	25.00	100	Horizontal	Pass
3	5238.750	108.40	--	--	Peak	45.00	100	Horizontal	N/A
3**	5238.750	100.52	--	--	AV	45.00	100	Horizontal	N/A
4	7583.750	52.81	74.0	21.19	Peak	321.00	100	Horizontal	Pass
4**	7583.750	44.60	54.0	9.40	AV	321.00	100	Horizontal	Pass
5	12404.675	54.37	74.0	19.63	Peak	256.00	150	Horizontal	Pass
5**	12404.675	43.50	54.0	10.50	AV	256.00	150	Horizontal	Pass
6	15897.900	54.29	74.0	19.71	Peak	278.00	400	Horizontal	Pass
6**	15897.900	44.87	54.0	9.13	AV	278.00	400	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	1457.700	38.43	74.0	35.57	Peak	70.00	100	Vertical	Pass
1**	1457.700	29.77	54.0	24.23	AV	70.00	100	Vertical	Pass
2	4348.750	48.27	74.0	25.73	Peak	221.00	400	Vertical	Pass
2**	4348.750	38.52	54.0	15.48	AV	221.00	400	Vertical	Pass
3	5238.250	99.13	--	--	Peak	23.00	200	Vertical	N/A
3**	5238.250	89.37	--	--	AV	23.00	200	Vertical	N/A
4	7612.750	53.61	74.0	20.39	Peak	357.00	300	Vertical	Pass
4**	7612.750	43.82	54.0	10.18	AV	357.00	300	Vertical	Pass
5	12503.238	53.50	74.0	20.50	Peak	273.00	150	Vertical	Pass
5**	12503.238	44.65	54.0	9.35	AV	273.00	150	Vertical	Pass
6	15715.724	55.09	74.0	18.91	Peak	77.00	200	Vertical	Pass
6**	15715.724	45.18	54.0	8.82	AV	77.00	200	Vertical	Pass