

TEST REPORT

Applicant: Xiaomi Communications Co., Ltd.
Address: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road,
Haidian District, Beijing, China, 100085
Equipment Type: Mobile Phone
Model Name: 25098RA98G
Brand Name: Redmi
Test Standard: 47 CFR Part 15 Subpart E
(refer to section 3.1)
Sample Arrival Date: Jul. 17, 2025
Test Date: Jul. 22, 2025 - Aug. 07, 2025
Date of Issue: Aug. 22, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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Revision History		
Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Aug. 22, 2025</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information	5
2.3	General Description for Equipment under Test (EUT)	5
2.4	Technical Information	6
2.5	Channel List	7
3	SUMMARY OF TEST RESULTS	9
3.1	Test Standards	9
3.2	Test Verdict	9
4	GENERAL TEST CONFIGURATIONS	10
4.1	Test Environments	10
4.2	Test Equipment List	10
4.3	Test Software List	10
4.4	Measurement Uncertainty	11
4.5	Description of Test Setup	11
5	TEST ITEMS	14
5.1	RF Output Power	14
5.2	Emission Bandwidth and 6 dB Bandwidth	16
5.3	Power Spectral density (PSD)	17
5.4	Conducted Emission	18
5.5	Radiated Spurious Emissions and Band Edge (Restricted-band)	19

ANNEX A	TEST RESULT	24
A.1	RF Output Power.....	24
A.2	Emission Bandwidth & 99% Bandwidth.....	26
A.3	6 dB Bandwidth	27
A.4	Power Spectral Density	28
A.5	Conducted Emissions.....	29
A.6	Radiated Spurious Emissions and Band Edge (Restricted-band).....	31
ANNEX B	TEST SETUP PHOTOS	50
ANNEX C	EUT EXTERNAL PHOTOS	50
ANNEX D	EUT INTERNAL PHOTOS	50

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	<input checked="" type="checkbox"/> Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	<input type="checkbox"/> 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	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.2 Manufacturer Information

Manufacturer	Xiaomi Communications Co., Ltd.
Address	#019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

2.3 General Description for Equipment under Test (EUT)

EUT Name	Mobile Phone
Model Name Under Test	25098RA98G
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	135300P17
Software Version	Xiaomi HyperOS 2.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A
EUT ID	SC-SZ2560532: S31, S33, S34
IMEI Number	SC-SZ2560532-S31: IMEI 1: 861950070041441; IMEI 2: 861950070041458
	SC-SZ2560532-S33: IMEI 1: 861950070038744; IMEI 2: 861950070038751
	SC-SZ2560532-S34: IMEI 1: 861950070023100; IMEI 2: 861950070023118

2.4 Technical Information

Network and Wireless connectivity	<p>2G Network GSM/GPRS/EDGE850/1900</p> <p>3G Network WCDMA/HSDPA/HSUPA Band 2/4/5</p> <p>4G Network FDD LTE Band 2/4/5/7/12/13/17/18/19/26/66 TDD LTE Band38/41/42/48</p> <p>LTE CA Uplink (UL): CA_38C, CA_7C, CA_2A-4A, CA_2A-7A, CA_4A-5A, CA_4A-7A</p> <p>5G Network</p> <p>SA: NR n2/5/7/12/26/38/41/48/66/77/78</p> <p>NSA(EN-DC):</p> <p>DC_4A_n2A, DC_7A_n2A, DC_66A_n2A, DC_7A_n5A, DC_2A_n7A, DC_4A_n7A, DC_5A_n7A, DC_66A_n7A, DC_4A_n38A, DC_5A_n38A, DC_2A_n38A, DC_66A_n38A, DC_2A_n41A, DC_4A_n41A, DC_5A_n41A, DC_66A_n41A, DC_2A_n66A, DC_5A_n66A, DC_7A_n66A, DC_2A_n77A, DC_18A_n77A, DC_2A_n78A, DC_4A_n78A, DC_5A_n78A, DC_7A_n78A, DC_19A_78A, DC_26A_n78A, DC_38A_n78A, DC_41A_n78A, DC_66A_n78A</p> <p>Bluetooth (BR+EDR+BLE)</p> <p>2.4G WIFI 802.11b, 802.11g, 802.11n(HT20)</p> <p>5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)</p> <p>GPS, GLONASS, Galileo, BDS, NFC</p>
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The requirement for the following technical information of the EUT was tested in this report:

Frequency Range	U-NII-3: 5725 MHz to 5850 MHz
Product Type	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Modulation technology	OFDM
Modulation Type	246QAM, 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-3: 59.98 mW
Antenna Type	PIFA Antenna
Antenna Gain	U-NII-3: 5725 MHz to 5850 MHz: -1.4 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)
149	5745	151	5755	155	5775
153	5765	159	5795		
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)/be(EHT20)

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

For 802.11n(HT40)/ac(VHT40)

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

For 802.11ac(VHT80)

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

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

Test Items	Mode	Data Rate	Modulation Type	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
				Channel	Channel	Channel	Channel
RF Output Power	11a	6	BPSK	48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	BPSK	48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
6 dB bandwidth	11a	6	BPSK	N/A	N/A	N/A	165/157/149/144
	11n(20 MHz)	6.5		N/A	N/A	N/A	165/157/149/144
	11n(40 MHz)	13.5		N/A	N/A	N/A	159/151/142
	11ac(20 MHz)	6.5		N/A	N/A	N/A	165/157/149/144
	11ac(40 MHz)	13.5		N/A	N/A	N/A	159/151/142
	11ac(80 MHz)	29.3		N/A	N/A	N/A	155/138
Power Spectral Density	11a	6	BPSK	48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
Radiated Spurious Emissions	11a	6	BPSK	48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(20 MHz)	6.5		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/118/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138
	11ax(20 MHz)	4		48/44/36	64/60/52	144/140/116/100	165/157/149/144
	11ax(40 MHz)	8		46/38	62/54	142/134/118/102	159/151/142
	11ax(80 MHz)	17		42	58	138/122/106	155/138
Band Edge (Restricted-band)	11a	6	BPSK	48/36	64/52	144/140/100	165/149/144
	11n(20 MHz)	6.5		48/36	64/52	144/140/100	165/149/144
	11n(40 MHz)	13.5		46/38	62/54	142/134/102	159/151/142
	11ac(20 MHz)	6.5		48/36	64/52	144/140/100	165/149/144
	11ac(40 MHz)	13.5		46/38	62/54	142/134/102	159/151/142
	11ac(80 MHz)	29.3		42	58	138/122/106	155/138

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

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

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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	45% to 67%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.2°C to +25.9°C
Working Voltage of the EUT	NV (Normal Voltage)	3.87 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY46471071	2025.06.16	2026.06.15
Power Sensor	KEYSIGHT	U2063XA	MY58000247	2025.06.16	2026.06.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY50531259	2025.06.16	2026.06.15
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
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%

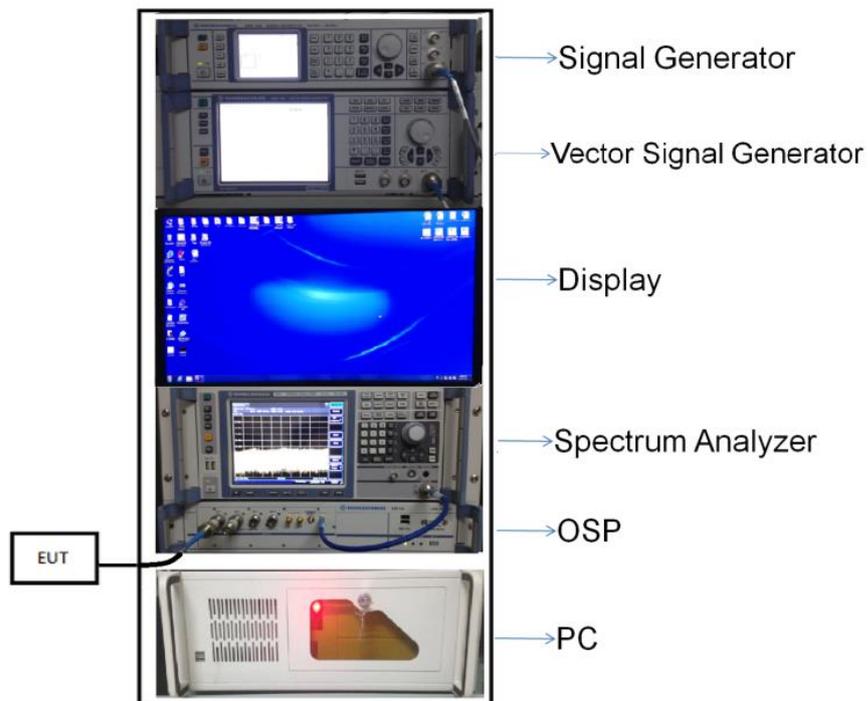
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

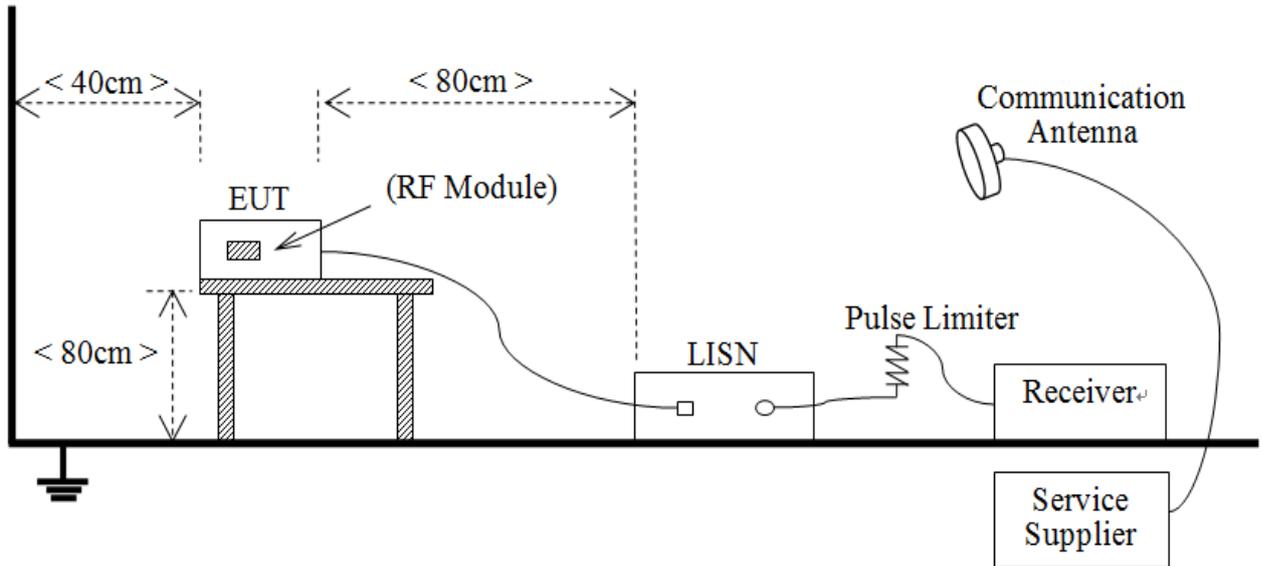
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

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



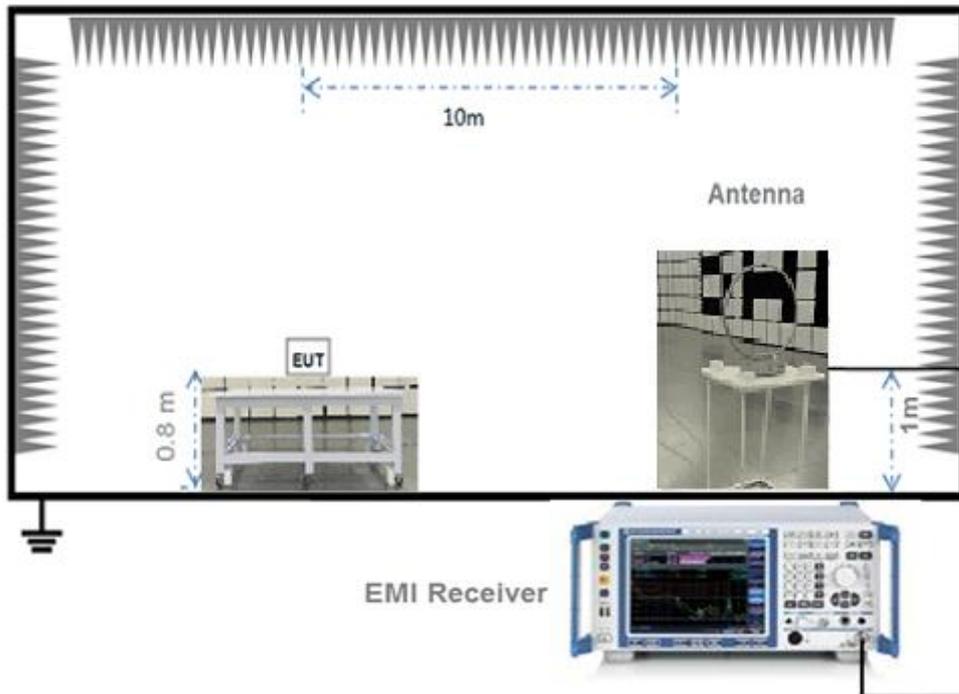
(Diagram 1)

4.5.2 For AC Power Supply Port Test



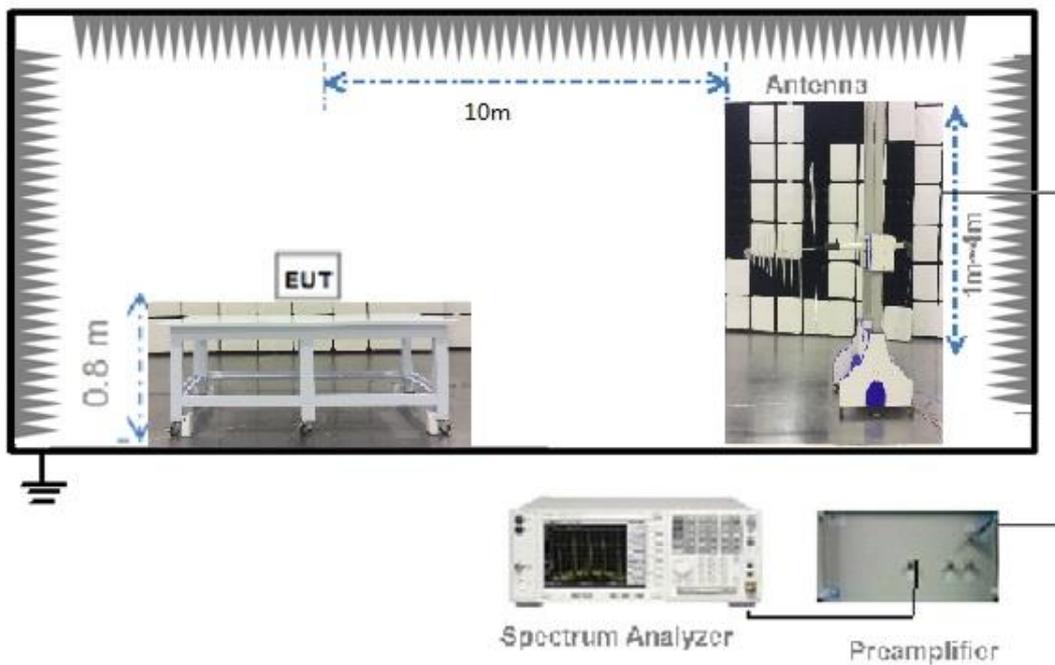
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



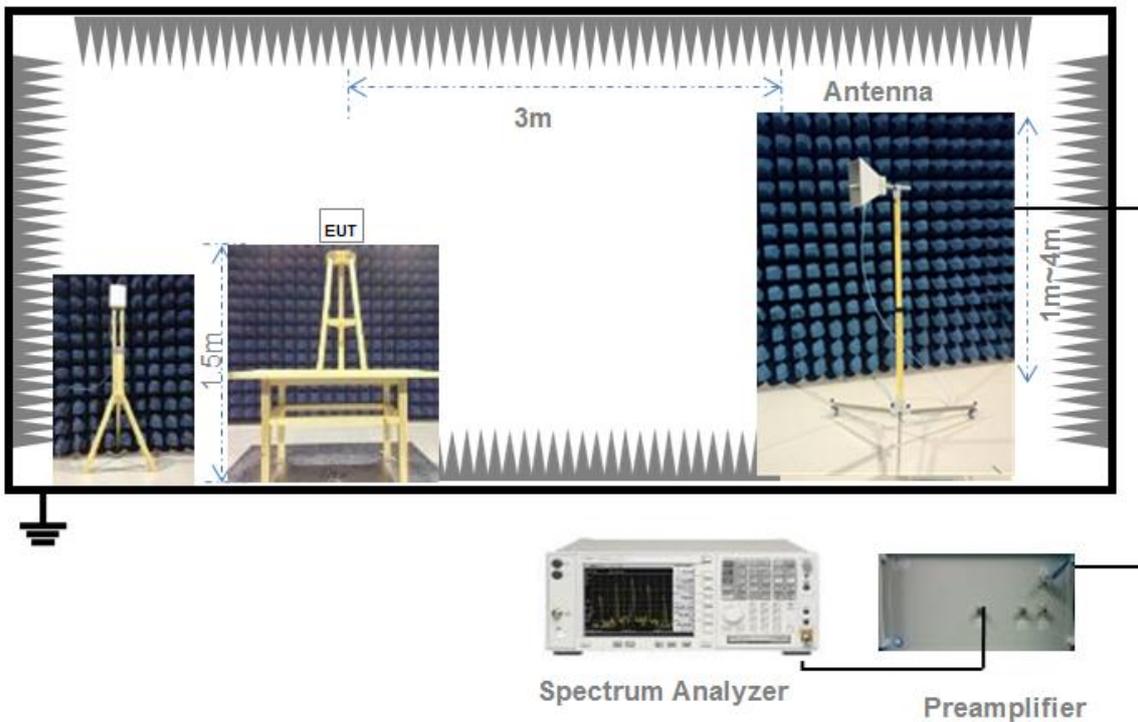
(Diagram 3)

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.	

RSS-247, 6.2

The maximum conducted output power shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	N/A
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 99% emissions bandwidth in MHz.	

The maximum e.i.r.p. shall not exceed:

Frequency Band (MHz)	Limit
5150-5250	200 mW or 10 dBm + 10log B, whichever is less.
5250-5350	1W or 17 dBm + 10log B, whichever is less.
5470-5725	1W or 17 dBm + 10log B, whichever is less.
5725-5850	N/A
Note1: Where "B" is the 99% emissions bandwidth in MHz.	
Note2: EIRP= maximum conducted output power+ Antenna Gain.	

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 $RBW \geq OBW$ 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), RSS-247, 6.2

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

RSS-247, 6.2

The maximum power spectral density should not exceed:

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

The e.i.r.p. spectral density should not exceed:

Frequency Band (MHz)	Limit
5150-5250	10 dBm/MHz
5250-5350	N/A
5470-5725	N/A
5725-5850	N/A
e.i.r.p. spectral density= maximum power spectral density+ Antenna Gain.	

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*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, RSS-GEN, 8.8

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), RSS-247, 6.2

Frequency (MHz)	Field Strength (µV/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

Note¹: The Limit for radiated test was performed according to FCC Part 15C

Note²: 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	<p>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.</p>

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 $\text{dB}\mu\text{V}/\text{m}$,

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	2.20	2.24	98.04%	0.09
11n(HT20)/11ac(VHT20)	2.06	2.09	98.80%	0.05
11n(HT40)/11ac(VHT40)	0.97	1.05	92.74%	0.33
11ac(VHT80)	0.49	0.52	92.70%	0.33

Test DataConducted Power

U-NII-3 (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH149	17.78	59.98	1000	Pass
11a	CH157	17.63	57.94	1000	Pass
11a	CH165	17.45	55.59	1000	Pass
11n(HT20)	CH149	16.61	45.81	1000	Pass
11n(HT20)	CH157	16.62	45.92	1000	Pass
11n(HT20)	CH165	16.45	44.16	1000	Pass
11n(HT40)	CH151	16.07	40.46	1000	Pass
11n(HT40)	CH159	16.21	41.78	1000	Pass
11ac(VHT20)	CH149	15.74	37.50	1000	Pass
11ac(VHT20)	CH157	16.55	45.19	1000	Pass
11ac(VHT20)	CH165	16.30	42.66	1000	Pass
11ac(VHT40)	CH151	16.17	41.40	1000	Pass
11ac(VHT40)	CH159	16.07	40.46	1000	Pass
11ac(VHT80)	CH155	15.09	32.28	1000	Pass

U-NII-3 straddle channel (5725 - 5850 MHz)					
Mode	Channel	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH144	14.43	27.73	1000	Pass
11n(HT20)	CH144	13.73	23.60	1000	Pass
11n(HT40)	CH142	9.09	8.11	1000	Pass
11ac(VHT20)	CH144	13.79	23.93	1000	Pass
11ac(VHT40)	CH142	9.06	8.05	1000	Pass
11ac(VHT80)	CH138	4.93	3.11	1000	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note 1: Test plots please refer to the document "Annex No.: BL-SZ2570858-606 Data Part 1.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH149	20.68	16.57
11a	CH157	20.78	16.57
11a	CH165	20.91	16.56
11n(HT20)	CH149	20.93	17.71
11n(HT20)	CH157	20.99	17.69
11n(HT20)	CH165	20.88	17.70
11n(HT40)	CH151	41.24	36.24
11n(HT40)	CH159	41.65	36.25
11ac(VHT20)	CH149	20.97	17.69
11ac(VHT20)	CH157	20.90	17.69
11ac(VHT20)	CH165	21.03	17.69
11ac(VHT40)	CH151	41.44	36.23
11ac(VHT40)	CH159	41.09	36.22
11ac(VHT80)	CH155	84.63	75.78

U-NII-3 straddle channel			
Mode	Channel	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH144	6.18	3.29
11n(HT20)	CH144	6.69	3.88
11n(HT40)	CH142	5.64	3.08
11ac(VHT20)	CH144	7.32	3.87
11ac(VHT40)	CH142	5.87	3.09
11ac(VHT80)	CH138	7.06	2.91

A.3 6 dB Bandwidth

Note 1: Test plots please refer to the document "Annex No.: BL-SZ2570858-606 Data Part 2.pdf".

Test Data

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	6 dB Bandwidth (MHz)	Limit (kHz)	Verdict
11a	CH149	16.00	500.00	Pass
11a	CH157	16.10	500.00	Pass
11a	CH165	15.60	500.00	Pass
11n(HT20)	CH149	15.20	500.00	Pass
11n(HT20)	CH157	17.40	500.00	Pass
11n(HT20)	CH165	14.00	500.00	Pass
11n(HT40)	CH151	35.40	500.00	Pass
11n(HT40)	CH159	36.50	500.00	Pass
11ac(VHT20)	CH149	14.90	500.00	Pass
11ac(VHT20)	CH157	17.30	500.00	Pass
11ac(VHT20)	CH165	17.00	500.00	Pass
11ac(VHT40)	CH151	35.70	500.00	Pass
11ac(VHT40)	CH159	35.50	500.00	Pass
11ac(VHT80)	CH155	75.20	500.00	Pass

A.4 Power Spectral Density

Note 1: Test plots please refer to the document "Annex No.: BL-SZ2570858-606 Data Part 3.pdf".

U-NII-3 (5725 - 5850 MHz)				
Mode	Channel	PSD (dBm/500kHz)	FCC Limit (dBm/500kHz)	Verdict
11a	CH149	3.30	30.00	Pass
11a	CH157	2.94	30.00	Pass
11a	CH165	2.73	30.00	Pass
11n(HT20)	CH149	1.89	30.00	Pass
11n(HT20)	CH157	1.67	30.00	Pass
11n(HT20)	CH165	1.49	30.00	Pass
11n(HT40)	CH151	-1.98	30.00	Pass
11n(HT40)	CH159	-2.20	30.00	Pass
11ac(VHT20)	CH149	1.05	30.00	Pass
11ac(VHT20)	CH157	1.64	30.00	Pass
11ac(VHT20)	CH165	1.45	30.00	Pass
11ac(VHT40)	CH151	-1.99	30.00	Pass
11ac(VHT40)	CH159	-2.12	30.00	Pass
11ac(VHT80)	CH155	-6.30	30.00	Pass

U-NII-3 straddle channel				
Mode	Channel	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
11a	CH144	3.42	30.00	Pass
11n(HT20)	CH144	2.17	30.00	Pass
11n(HT40)	CH142	-1.59	30.00	Pass
11ac(VHT20)	CH144	2.16	30.00	Pass
11ac(VHT40)	CH142	-1.57	30.00	Pass
11ac(VHT80)	CH138	-5.69	30.00	Pass

A.5 Conducted Emissions

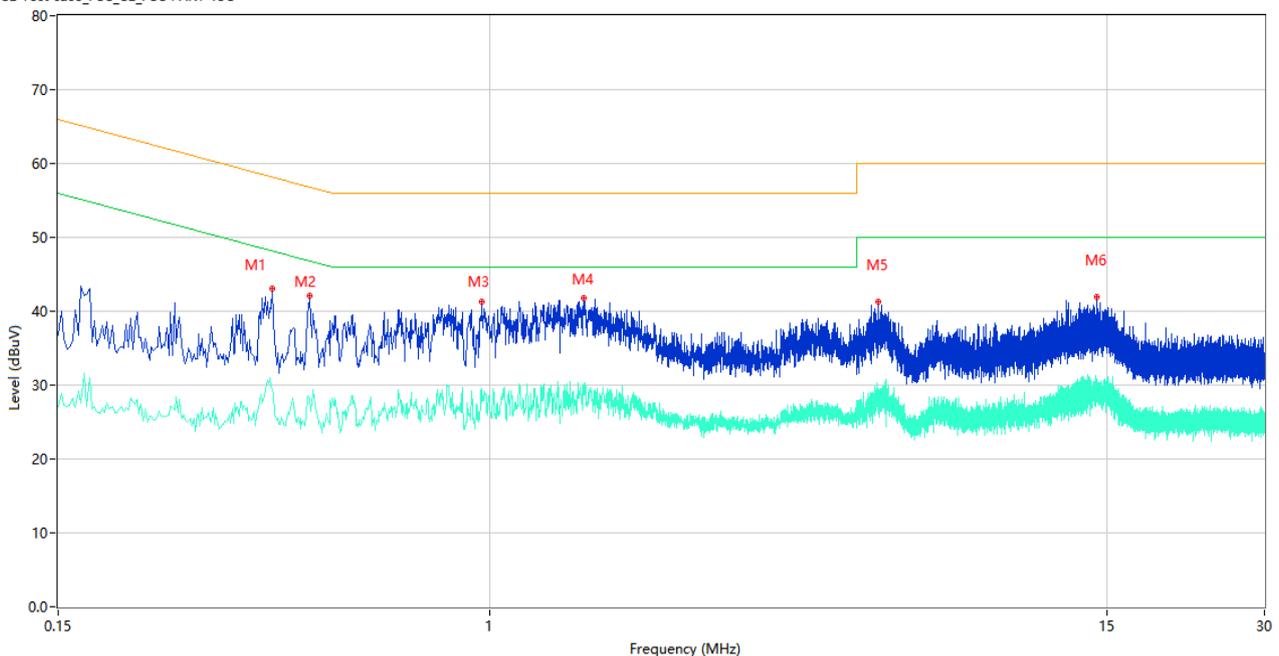
Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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

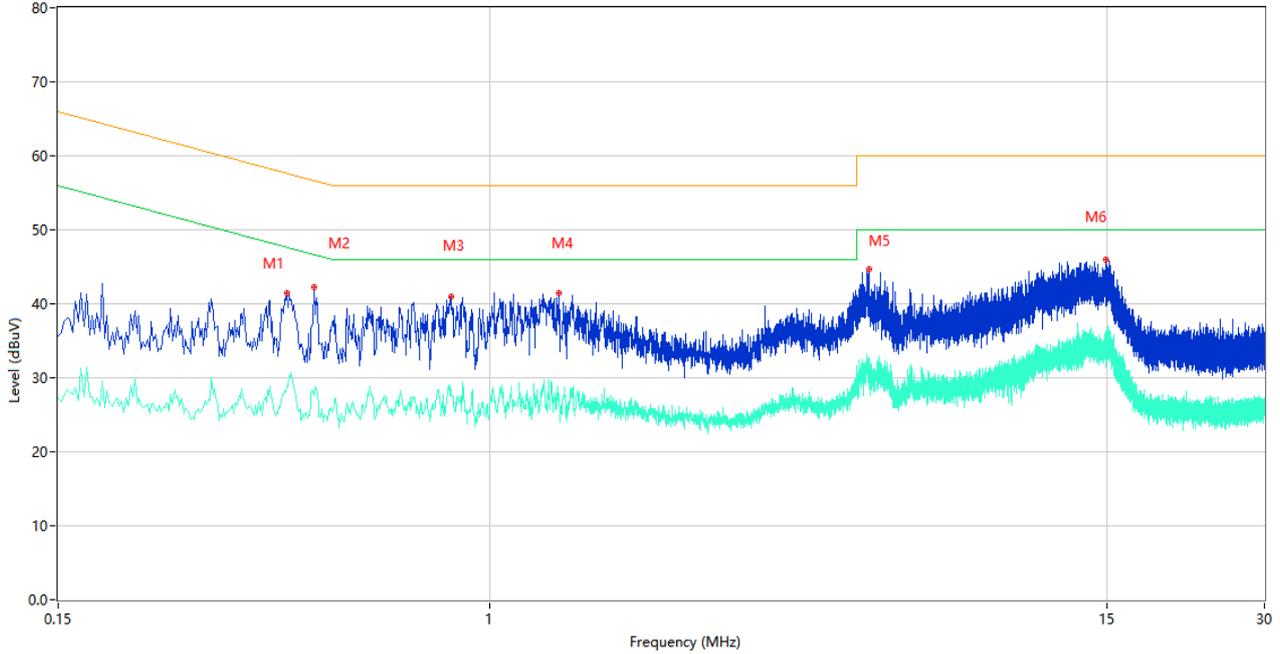
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.384	43.14	10.68	58.19	15.05	Peak	L	Pass
1**	0.384	29.51	10.68	48.19	18.68	AV	L	Pass
2	0.452	42.10	10.09	56.84	14.74	Peak	L	Pass
2**	0.452	28.24	10.09	46.84	18.60	AV	L	Pass
3	0.966	41.23	10.09	56.00	14.77	Peak	L	Pass
3**	0.966	27.75	10.09	46.00	18.25	AV	L	Pass
4	1.510	41.70	10.30	56.00	14.30	Peak	L	Pass
4**	1.510	29.46	10.30	46.00	16.54	AV	L	Pass
5	5.502	41.27	10.43	60.00	18.73	Peak	L	Pass
5**	5.502	29.47	10.43	50.00	20.53	AV	L	Pass
6	14.392	41.87	10.65	60.00	18.13	Peak	L	Pass
6**	14.392	28.37	10.65	50.00	21.63	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	0.410	41.42	10.51	57.65	16.23	Peak	N	Pass
1**	0.410	28.88	10.51	47.65	18.77	AV	N	Pass
2	0.462	42.32	10.08	56.66	14.34	Peak	N	Pass
2**	0.462	27.56	10.08	46.66	19.10	AV	N	Pass
3	0.842	41.02	10.67	56.00	14.98	Peak	N	Pass
3**	0.842	28.46	10.67	46.00	17.54	AV	N	Pass
4	1.352	41.38	10.05	56.00	14.62	Peak	N	Pass
4**	1.352	26.73	10.05	46.00	19.27	AV	N	Pass
5	5.284	44.75	10.36	60.00	15.25	Peak	N	Pass
5**	5.284	32.77	10.36	50.00	17.23	AV	N	Pass
6	14.964	46.03	10.71	60.00	13.97	Peak	N	Pass
6**	14.964	34.18	10.71	50.00	15.82	AV	N	Pass

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

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

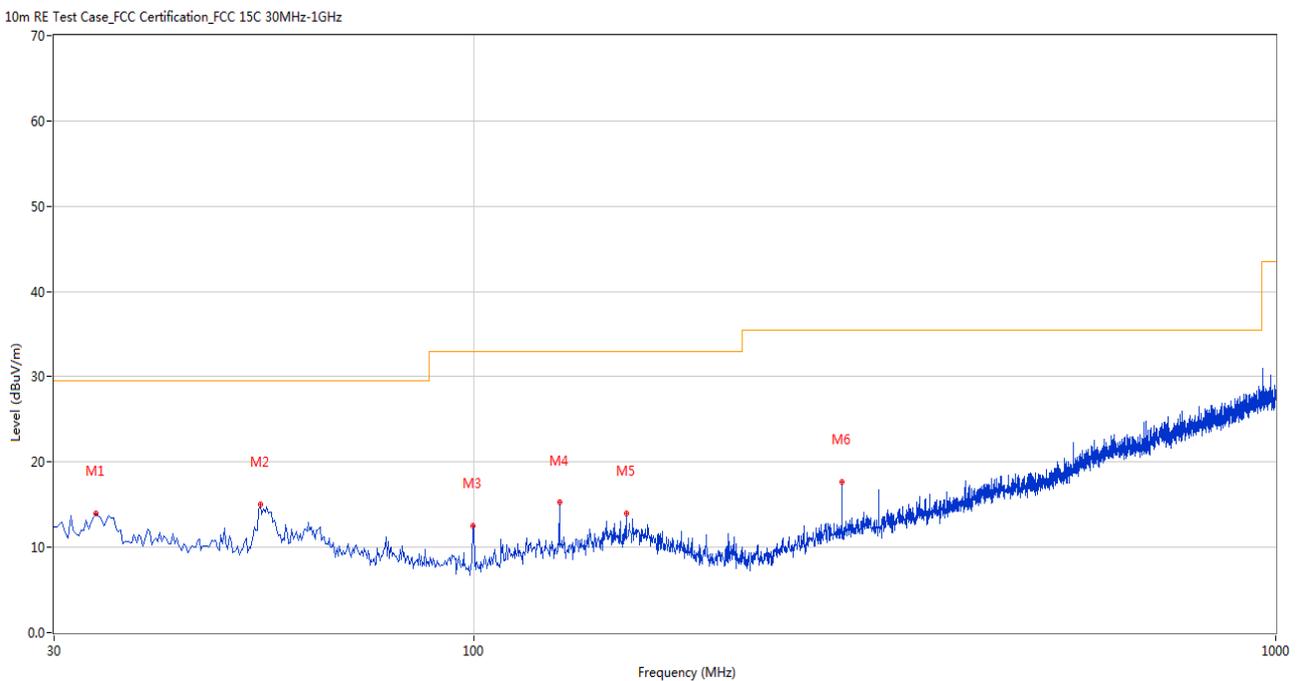
Note²: For the test data above 1 GHz, According the ANSI C63.4, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

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

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

Test Data and Plots

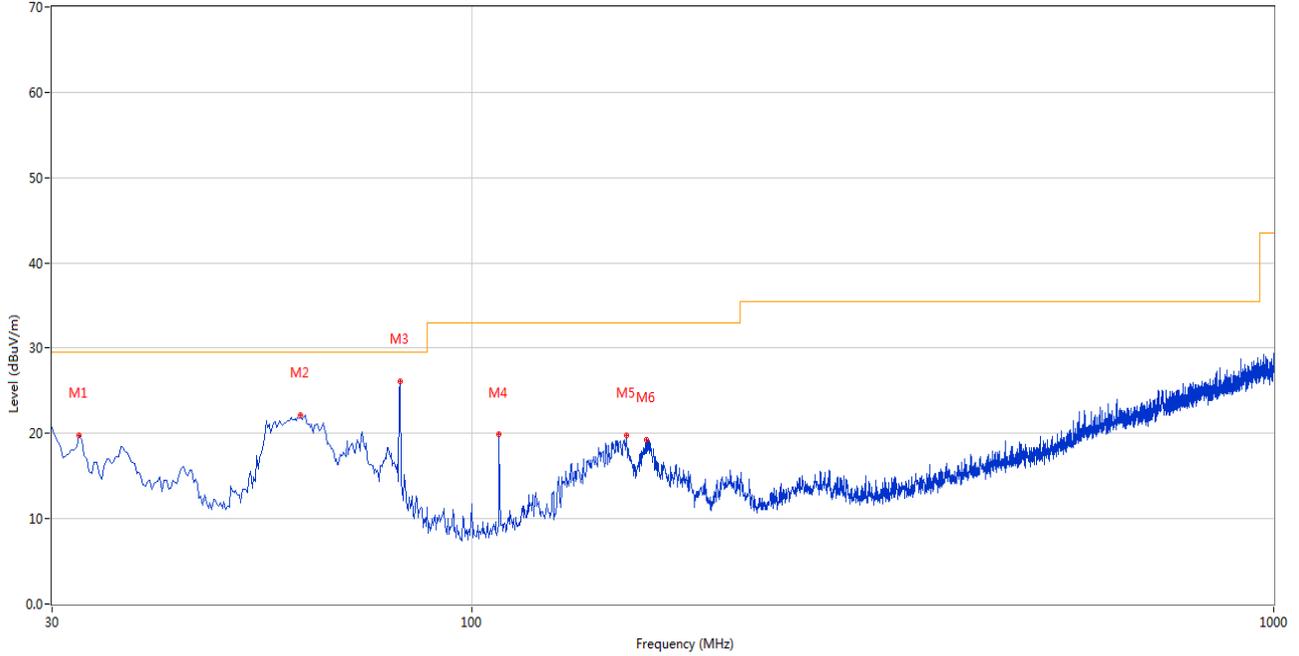
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	33.879	13.93	-26.96	29.5	15.57	Peak	0.00	200	Horizontal	Pass
2	54.244	15.09	-27.10	29.5	14.41	Peak	308.00	100	Horizontal	Pass
3	99.823	12.57	-29.96	33.0	20.43	Peak	340.00	100	Horizontal	Pass
4	127.946	15.23	-27.47	33.0	17.77	Peak	10.00	100	Horizontal	Pass
5	155.099	13.93	-26.11	33.0	19.07	Peak	42.00	200	Horizontal	Pass
6	287.956	17.64	-25.91	35.5	17.86	Peak	324.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	32.424	19.83	-27.01	29.5	9.67	Peak	0.00	200	Vertical	Pass
2	61.275	22.15	-27.61	29.5	7.35	Peak	280.00	100	Vertical	Pass
3	81.397	26.07	-30.16	29.5	3.43	Peak	359.00	200	Vertical	Pass
4	108.308	19.85	-29.15	33.0	13.15	Peak	340.00	100	Vertical	Pass
5	155.826	19.76	-26.12	33.0	13.24	Peak	313.00	200	Vertical	Pass
6	165.281	19.19	-26.21	33.0	13.81	Peak	318.00	100	Vertical	Pass

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

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1453.800	38.54	74.0	35.46	Peak	149.00	300	Horizontal	Pass
1**	1453.800	28.99	54.0	25.01	AV	149.00	300	Horizontal	Pass
2	4246.500	47.78	74.0	26.22	Peak	14.00	100	Horizontal	Pass
2**	4246.500	38.29	54.0	15.71	AV	14.00	100	Horizontal	Pass
3	5744.500	103.94	--	--	Peak	116.00	150	Horizontal	N/A
3**	5744.500	96.51	--	--	AV	116.00	150	Horizontal	N/A
4	7608.500	53.46	74.0	20.54	Peak	157.00	300	Horizontal	Pass
4**	7608.500	43.85	54.0	10.15	AV	157.00	300	Horizontal	Pass
5	12531.974	53.07	74.0	20.93	Peak	326.00	150	Horizontal	Pass
5**	12531.974	44.34	54.0	9.66	AV	326.00	150	Horizontal	Pass
6	15895.276	54.15	74.0	19.85	Peak	217.00	100	Horizontal	Pass
6**	15895.276	44.52	54.0	9.48	AV	217.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1494.100	40.42	74.0	33.58	Peak	137.00	300	Vertical	Pass
1**	1494.100	29.35	54.0	24.65	AV	137.00	300	Vertical	Pass
2	3787.000	43.80	74.0	30.20	Peak	239.00	100	Vertical	Pass
2**	3787.000	49.70	54.0	4.30	AV	239.00	100	Vertical	Pass
3	5747.000	98.63	--	--	Peak	138.00	150	Vertical	N/A
3**	5747.000	89.48	--	--	AV	138.00	150	Vertical	N/A
4	7420.250	53.40	74.0	20.60	Peak	18.00	300	Vertical	Pass
4**	7420.250	44.88	54.0	9.12	AV	18.00	300	Vertical	Pass
5	12492.550	53.14	74.0	20.86	Peak	328.00	100	Vertical	Pass
5**	12492.550	44.36	54.0	9.64	AV	328.00	100	Vertical	Pass
6	16062.750	53.98	74.0	20.02	Peak	349.00	200	Vertical	Pass
6**	16062.750	43.70	54.0	10.30	AV	349.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1612.400	38.17	74.0	35.83	Peak	241.00	200	Horizontal	Pass
1**	1612.400	29.10	54.0	24.90	AV	241.00	200	Horizontal	Pass
2	3786.500	44.51	74.0	29.49	Peak	83.00	100	Horizontal	Pass
2**	3786.500	44.55	54.0	9.45	AV	83.00	100	Horizontal	Pass
3	5787.750	104.27	--	--	Peak	124.00	150	Horizontal	N/A
3**	5787.750	96.04	--	--	AV	124.00	150	Horizontal	N/A
4	7319.750	54.44	74.0	19.56	Peak	333.00	400	Horizontal	Pass
4**	7319.750	43.98	54.0	10.02	AV	333.00	400	Horizontal	Pass
5	12497.537	53.19	74.0	20.81	Peak	360.00	100	Horizontal	Pass
5**	12497.537	43.92	54.0	10.08	AV	360.00	100	Horizontal	Pass
6	16103.963	54.26	74.0	19.74	Peak	335.00	300	Horizontal	Pass
6**	16103.963	45.02	54.0	8.98	AV	335.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1455.400	38.77	74.0	35.23	Peak	175.00	400	Vertical	Pass
1**	1455.400	28.89	54.0	25.11	AV	175.00	400	Vertical	Pass
2	4336.750	47.73	74.0	26.27	Peak	342.00	100	Vertical	Pass
2**	4336.750	38.34	54.0	15.66	AV	342.00	100	Vertical	Pass
3	5786.750	96.89	--	--	Peak	145.00	100	Vertical	N/A
3**	5786.750	90.77	--	--	AV	145.00	100	Vertical	N/A
4	7490.750	54.59	74.0	19.41	Peak	41.00	300	Vertical	Pass
4**	7490.750	45.56	54.0	8.44	AV	41.00	300	Vertical	Pass
5	12455.737	53.75	74.0	20.25	Peak	171.00	150	Vertical	Pass
5**	12455.737	44.62	54.0	9.38	AV	171.00	150	Vertical	Pass
6	16097.662	54.13	74.0	19.87	Peak	290.00	100	Vertical	Pass
6**	16097.662	45.09	54.0	8.91	AV	290.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1512.900	38.70	74.0	35.30	Peak	360.00	300	Horizontal	Pass
1**	1512.900	29.06	54.0	24.94	AV	360.00	300	Horizontal	Pass
2	3787.250	51.06	74.0	22.94	Peak	163.00	100	Horizontal	Pass
2**	3787.250	47.05	54.0	6.95	AV	163.00	100	Horizontal	Pass
3	5825.250	104.21	--	--	Peak	143.00	200	Horizontal	N/A
3**	5825.250	95.65	--	--	AV	143.00	200	Horizontal	N/A
4	7647.250	53.18	74.0	20.82	Peak	1.00	400	Horizontal	Pass
4**	7647.250	43.51	54.0	10.49	AV	1.00	400	Horizontal	Pass
5	12425.813	54.18	74.0	19.82	Peak	360.00	150	Horizontal	Pass
5**	12425.813	45.62	54.0	8.38	AV	360.00	150	Horizontal	Pass
6	15903.938	54.46	74.0	19.54	Peak	251.00	200	Horizontal	Pass
6**	15903.938	45.25	54.0	8.75	AV	251.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1461.600	38.54	74.0	35.46	Peak	220.00	200	Vertical	Pass
1**	1461.600	28.74	54.0	25.26	AV	220.00	200	Vertical	Pass
2	3638.750	43.70	74.0	30.30	Peak	179.00	100	Vertical	Pass
2**	3638.750	44.88	54.0	9.12	AV	179.00	100	Vertical	Pass
3	5823.000	98.74	--	--	Peak	139.00	100	Vertical	N/A
3**	5823.000	92.12	--	--	AV	139.00	100	Vertical	N/A
4	7607.250	53.83	74.0	20.17	Peak	298.00	100	Vertical	Pass
4**	7607.250	44.17	54.0	9.83	AV	298.00	100	Vertical	Pass
5	12521.287	53.24	74.0	20.76	Peak	41.00	100	Vertical	Pass
5**	12521.287	43.70	54.0	10.30	AV	41.00	100	Vertical	Pass
6	16105.538	53.94	74.0	20.06	Peak	52.00	300	Vertical	Pass
6**	16105.538	44.97	54.0	9.03	AV	52.00	300	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1546.800	38.39	74.0	35.61	Peak	204.00	200	Horizontal	Pass
1**	1546.800	28.73	54.0	25.27	AV	204.00	200	Horizontal	Pass
2	3787.500	46.15	74.0	27.85	Peak	351.00	100	Horizontal	Pass
2**	3787.500	47.00	54.0	7.00	AV	351.00	100	Horizontal	Pass
3	5746.000	105.30	--	--	Peak	140.00	150	Horizontal	N/A
3**	5746.000	96.44	--	--	AV	140.00	150	Horizontal	N/A
4	7607.750	53.42	74.0	20.58	Peak	79.00	200	Horizontal	Pass
4**	7607.750	44.42	54.0	9.58	AV	79.00	200	Horizontal	Pass
5	12460.250	53.25	74.0	20.75	Peak	77.00	100	Horizontal	Pass
5**	12460.250	43.85	54.0	10.15	AV	77.00	100	Horizontal	Pass
6	15927.825	54.15	74.0	19.85	Peak	320.00	200	Horizontal	Pass
6**	15927.825	43.83	54.0	10.17	AV	320.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1574.400	40.05	74.0	33.95	Peak	130.00	300	Vertical	Pass
1**	1574.400	28.66	54.0	25.34	AV	130.00	300	Vertical	Pass
2	3787.750	44.56	74.0	29.44	Peak	281.00	100	Vertical	Pass
2**	3787.750	41.70	54.0	12.30	AV	281.00	100	Vertical	Pass
3	5746.250	97.33	--	--	Peak	0.00	150	Vertical	N/A
3**	5746.250	89.67	--	--	AV	0.00	150	Vertical	N/A
4	7604.500	53.76	74.0	20.24	Peak	0.00	300	Vertical	Pass
4**	7604.500	44.01	54.0	9.99	AV	0.00	300	Vertical	Pass
5	12526.513	53.29	74.0	20.71	Peak	268.00	150	Vertical	Pass
5**	12526.513	45.59	54.0	8.41	AV	268.00	150	Vertical	Pass
6	16151.213	54.35	74.0	19.65	Peak	322.00	100	Vertical	Pass
6**	16151.213	44.61	54.0	9.39	AV	322.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1598.400	38.29	74.0	35.71	Peak	266.00	300	Horizontal	Pass
1**	1598.400	28.56	54.0	25.44	AV	266.00	300	Horizontal	Pass
2	3876.500	46.95	74.0	27.05	Peak	351.00	100	Horizontal	Pass
2**	3876.500	38.77	54.0	15.23	AV	351.00	100	Horizontal	Pass
3	5786.500	103.46	--	--	Peak	281.00	150	Horizontal	N/A
3**	5786.500	97.61	--	--	AV	281.00	150	Horizontal	N/A
4	7611.750	52.70	74.0	21.30	Peak	322.00	200	Horizontal	Pass
4**	7611.750	43.97	54.0	10.03	AV	322.00	200	Horizontal	Pass
5	12482.338	53.19	74.0	20.81	Peak	210.00	200	Horizontal	Pass
5**	12482.338	43.82	54.0	10.18	AV	210.00	200	Horizontal	Pass
6	16126.800	53.92	74.0	20.08	Peak	305.00	300	Horizontal	Pass
6**	16126.800	44.62	54.0	9.38	AV	305.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.500	39.69	74.0	34.31	Peak	139.00	100	Vertical	Pass
1**	1495.500	29.87	54.0	24.13	AV	139.00	100	Vertical	Pass
2	4278.250	47.29	74.0	26.71	Peak	220.00	300	Vertical	Pass
2**	4278.250	38.02	54.0	15.98	AV	220.00	300	Vertical	Pass
3	5786.000	96.55	--	--	Peak	138.00	150	Vertical	N/A
3**	5786.000	89.63	--	--	AV	138.00	150	Vertical	N/A
4	7640.750	53.81	74.0	20.19	Peak	58.00	200	Vertical	Pass
4**	7640.750	43.94	54.0	10.06	AV	58.00	200	Vertical	Pass
5	12467.138	53.10	74.0	20.90	Peak	40.00	200	Vertical	Pass
5**	12467.138	43.76	54.0	10.24	AV	40.00	200	Vertical	Pass
6	15874.275	53.71	74.0	20.29	Peak	198.00	100	Vertical	Pass
6**	15874.275	44.38	54.0	9.62	AV	198.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1577.000	38.54	74.0	35.46	Peak	360.00	400	Horizontal	Pass
1**	1577.000	29.20	54.0	24.80	AV	360.00	400	Horizontal	Pass
2	4328.000	47.20	74.0	26.80	Peak	55.00	400	Horizontal	Pass
2**	4328.000	37.77	54.0	16.23	AV	55.00	400	Horizontal	Pass
3	5822.750	103.97	--	--	Peak	116.00	200	Horizontal	N/A
3**	5822.750	95.91	--	--	AV	116.00	200	Horizontal	N/A
4	7629.000	53.23	74.0	20.77	Peak	347.00	100	Horizontal	Pass
4**	7629.000	43.03	54.0	10.97	AV	347.00	100	Horizontal	Pass
5	12501.812	53.38	74.0	20.62	Peak	54.00	150	Horizontal	Pass
5**	12501.812	44.70	54.0	9.30	AV	54.00	150	Horizontal	Pass
6	16112.362	53.67	74.0	20.33	Peak	290.00	400	Horizontal	Pass
6**	16112.362	44.68	54.0	9.32	AV	290.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1522.500	39.51	74.0	34.49	Peak	128.00	200	Vertical	Pass
1**	1522.500	28.66	54.0	25.34	AV	128.00	200	Vertical	Pass
2	3711.250	47.83	74.0	26.17	Peak	278.00	400	Vertical	Pass
2**	3711.250	39.66	54.0	14.34	AV	278.00	400	Vertical	Pass
3	5829.250	97.09	--	--	Peak	137.00	100	Vertical	N/A
3**	5829.250	88.98	--	--	AV	137.00	100	Vertical	N/A
4	7607.750	53.99	74.0	20.01	Peak	137.00	400	Vertical	Pass
4**	7607.750	44.12	54.0	9.88	AV	137.00	400	Vertical	Pass
5	12548.600	53.08	74.0	20.92	Peak	121.00	200	Vertical	Pass
5**	12548.600	43.20	54.0	10.80	AV	121.00	200	Vertical	Pass
6	15374.737	53.70	74.0	20.30	Peak	0.00	100	Vertical	Pass
6**	15374.737	43.35	54.0	10.65	AV	0.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1437.500	38.93	74.0	35.07	Peak	360.00	100	Horizontal	Pass
1**	1437.500	28.76	54.0	25.24	AV	360.00	100	Horizontal	Pass
2	3638.500	48.34	74.0	25.66	Peak	105.00	100	Horizontal	Pass
2**	3638.500	48.81	54.0	5.19	AV	105.00	100	Horizontal	Pass
3	5753.750	99.97	--	--	Peak	144.00	100	Horizontal	N/A
3**	5753.750	91.81	--	--	AV	144.00	100	Horizontal	N/A
4	7488.000	53.40	74.0	20.60	Peak	86.00	100	Horizontal	Pass
4**	7488.000	45.03	54.0	8.97	AV	86.00	100	Horizontal	Pass
5	12495.162	53.38	74.0	20.62	Peak	178.00	200	Horizontal	Pass
5**	12495.162	44.07	54.0	9.93	AV	178.00	200	Horizontal	Pass
6	16107.900	54.46	74.0	19.54	Peak	347.00	400	Horizontal	Pass
6**	16107.900	45.52	54.0	8.48	AV	347.00	400	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1525.700	40.19	74.0	33.81	Peak	158.00	200	Vertical	Pass
1**	1525.700	29.40	54.0	24.60	AV	158.00	200	Vertical	Pass
2	3786.750	44.57	74.0	29.43	Peak	144.00	100	Vertical	Pass
2**	3786.750	46.74	54.0	7.26	AV	144.00	100	Vertical	Pass
3	5758.750	93.02	--	--	Peak	144.00	100	Vertical	N/A
3**	5758.750	84.70	--	--	AV	144.00	100	Vertical	N/A
4	7421.000	53.97	74.0	20.03	Peak	261.00	100	Vertical	Pass
4**	7421.000	44.46	54.0	9.54	AV	261.00	100	Vertical	Pass
5	11721.388	53.09	74.0	20.91	Peak	276.00	100	Vertical	Pass
5**	11721.388	42.67	54.0	11.33	AV	276.00	100	Vertical	Pass
6	16123.388	53.90	74.0	20.10	Peak	20.00	200	Vertical	Pass
6**	16123.388	45.07	54.0	8.93	AV	20.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1517.300	38.69	74.0	35.31	Peak	263.00	200	Horizontal	Pass
1**	1517.300	30.37	54.0	23.63	AV	263.00	200	Horizontal	Pass
2	3787.500	44.69	74.0	29.31	Peak	261.00	100	Horizontal	Pass
2**	3787.500	43.05	54.0	10.95	AV	261.00	100	Horizontal	Pass
3	5796.750	100.44	--	--	Peak	84.00	200	Horizontal	N/A
3**	5796.750	92.56	--	--	AV	84.00	200	Horizontal	N/A
4	7610.000	53.14	74.0	20.86	Peak	319.00	100	Horizontal	Pass
4**	7610.000	44.33	54.0	9.67	AV	319.00	100	Horizontal	Pass
5	12512.026	54.25	74.0	19.75	Peak	127.00	150	Horizontal	Pass
5**	12512.026	43.63	54.0	10.37	AV	127.00	150	Horizontal	Pass
6	15861.937	54.01	74.0	19.99	Peak	360.00	200	Horizontal	Pass
6**	15861.937	44.93	54.0	9.07	AV	360.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.900	39.97	74.0	34.03	Peak	139.00	300	Vertical	Pass
1**	1497.900	30.23	54.0	23.77	AV	139.00	300	Vertical	Pass
2	3638.250	46.27	74.0	27.73	Peak	349.00	100	Vertical	Pass
2**	3638.250	47.09	54.0	6.91	AV	349.00	100	Vertical	Pass
3	5798.750	93.97	--	--	Peak	144.00	150	Vertical	N/A
3**	5798.750	86.64	--	--	AV	144.00	150	Vertical	N/A
4	7644.000	53.20	74.0	20.80	Peak	28.00	100	Vertical	Pass
4**	7644.000	43.93	54.0	10.07	AV	28.00	100	Vertical	Pass
5	12470.462	53.12	74.0	20.88	Peak	149.00	150	Vertical	Pass
5**	12470.462	44.13	54.0	9.87	AV	149.00	150	Vertical	Pass
6	16144.650	54.00	74.0	20.00	Peak	48.00	200	Vertical	Pass
6**	16144.650	44.83	54.0	9.17	AV	48.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1626.300	38.87	74.0	35.13	Peak	161.00	200	Horizontal	Pass
1**	1626.300	29.53	54.0	24.47	AV	161.00	200	Horizontal	Pass
2	3861.250	46.14	74.0	27.86	Peak	287.00	100	Horizontal	Pass
2**	3861.250	43.72	54.0	10.28	AV	287.00	100	Horizontal	Pass
3	5746.750	102.02	--	--	Peak	105.00	200	Horizontal	N/A
3**	5746.750	95.30	--	--	AV	105.00	200	Horizontal	N/A
4	7598.250	53.33	74.0	20.67	Peak	87.00	300	Horizontal	Pass
4**	7598.250	44.35	54.0	9.65	AV	87.00	300	Horizontal	Pass
5	12484.475	53.69	74.0	20.31	Peak	11.00	100	Horizontal	Pass
5**	12484.475	43.89	54.0	10.11	AV	11.00	100	Horizontal	Pass
6	15901.050	54.03	74.0	19.97	Peak	55.00	100	Horizontal	Pass
6**	15901.050	45.27	54.0	8.73	AV	55.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.300	39.50	74.0	34.50	Peak	127.00	100	Vertical	Pass
1**	1497.300	28.77	54.0	25.23	AV	127.00	100	Vertical	Pass
2	3884.500	46.84	74.0	27.16	Peak	160.00	100	Vertical	Pass
2**	3884.500	38.49	54.0	15.51	AV	160.00	100	Vertical	Pass
3	5746.250	95.26	--	--	Peak	19.00	150	Vertical	N/A
3**	5746.250	88.09	--	--	AV	19.00	150	Vertical	N/A
4	7598.750	53.07	74.0	20.93	Peak	0.00	400	Vertical	Pass
4**	7598.750	44.97	54.0	9.03	AV	0.00	400	Vertical	Pass
5	12514.638	53.17	74.0	20.83	Peak	112.00	100	Vertical	Pass
5**	12514.638	43.97	54.0	10.03	AV	112.00	100	Vertical	Pass
6	15887.662	53.87	74.0	20.13	Peak	360.00	100	Vertical	Pass
6**	15887.662	44.87	54.0	9.13	AV	360.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1613.300	38.65	74.0	35.35	Peak	168.00	100	Horizontal	Pass
1**	1613.300	29.05	54.0	24.95	AV	168.00	100	Horizontal	Pass
2	3787.000	44.08	74.0	29.92	Peak	259.00	100	Horizontal	Pass
2**	3787.000	50.19	54.0	3.81	AV	259.00	100	Horizontal	Pass
3	5786.000	103.67	--	--	Peak	116.00	200	Horizontal	N/A
3**	5786.000	96.69	--	--	AV	116.00	200	Horizontal	N/A
4	7310.250	53.43	74.0	20.57	Peak	77.00	400	Horizontal	Pass
4**	7310.250	44.03	54.0	9.97	AV	77.00	400	Horizontal	Pass
5	12515.588	53.22	74.0	20.78	Peak	40.00	200	Horizontal	Pass
5**	12515.588	44.38	54.0	9.62	AV	40.00	200	Horizontal	Pass
6	16112.888	54.94	74.0	19.06	Peak	274.00	200	Horizontal	Pass
6**	16112.888	45.35	54.0	8.65	AV	274.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1500.000	40.44	74.0	33.56	Peak	137.00	200	Vertical	Pass
1**	1500.000	29.10	54.0	24.90	AV	137.00	200	Vertical	Pass
2	3787.000	50.36	74.0	23.64	Peak	179.00	100	Vertical	Pass
2**	3787.000	47.80	54.0	6.20	AV	179.00	100	Vertical	Pass
3	5784.250	97.06	--	--	Peak	138.00	200	Vertical	N/A
3**	5784.250	89.63	--	--	AV	138.00	200	Vertical	N/A
4	7470.250	53.49	74.0	20.51	Peak	320.00	100	Vertical	Pass
4**	7470.250	43.09	54.0	10.91	AV	320.00	100	Vertical	Pass
5	12526.276	53.94	74.0	20.06	Peak	164.00	200	Vertical	Pass
5**	12526.276	44.36	54.0	9.64	AV	164.00	200	Vertical	Pass
6	16128.375	53.95	74.0	20.05	Peak	252.00	200	Vertical	Pass
6**	16128.375	45.59	54.0	8.41	AV	252.00	200	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1575.300	38.77	74.0	35.23	Peak	142.00	400	Horizontal	Pass
1**	1575.300	29.14	54.0	24.86	AV	142.00	400	Horizontal	Pass
2	3638.750	45.81	74.0	28.19	Peak	350.00	100	Horizontal	Pass
2**	3638.750	42.98	54.0	11.02	AV	350.00	100	Horizontal	Pass
3	5824.000	104.00	--	--	Peak	139.00	200	Horizontal	N/A
3**	5824.000	96.07	--	--	AV	139.00	200	Horizontal	N/A
4	7603.000	53.74	74.0	20.26	Peak	350.00	300	Horizontal	Pass
4**	7603.000	44.20	54.0	9.80	AV	350.00	300	Horizontal	Pass
5	12520.813	53.60	74.0	20.40	Peak	72.00	100	Horizontal	Pass
5**	12520.813	44.59	54.0	9.41	AV	72.00	100	Horizontal	Pass
6	16123.125	54.01	74.0	19.99	Peak	127.00	300	Horizontal	Pass
6**	16123.125	44.69	54.0	9.31	AV	127.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.000	39.59	74.0	34.41	Peak	131.00	400	Vertical	Pass
1**	1497.000	28.87	54.0	25.13	AV	131.00	400	Vertical	Pass
2	3712.750	48.28	74.0	25.72	Peak	137.00	100	Vertical	Pass
2**	3712.750	45.41	54.0	8.59	AV	137.00	100	Vertical	Pass
3	5828.500	97.65	--	--	Peak	137.00	200	Vertical	N/A
3**	5828.500	88.73	--	--	AV	137.00	200	Vertical	N/A
4	7591.500	53.04	74.0	20.96	Peak	137.00	400	Vertical	Pass
4**	7591.500	43.90	54.0	10.10	AV	137.00	400	Vertical	Pass
5	12533.162	52.92	74.0	21.08	Peak	208.00	100	Vertical	Pass
5**	12533.162	43.57	54.0	10.43	AV	208.00	100	Vertical	Pass
6	16119.187	53.73	74.0	20.27	Peak	81.00	400	Vertical	Pass
6**	16119.187	44.97	54.0	9.03	AV	81.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.700	38.39	74.0	35.61	Peak	42.00	400	Horizontal	Pass
1**	1498.700	28.77	54.0	25.23	AV	42.00	400	Horizontal	Pass
2	3786.250	47.50	74.0	26.50	Peak	164.00	100	Horizontal	Pass
2**	3786.250	42.58	54.0	11.42	AV	164.00	100	Horizontal	Pass
3	5752.250	99.65	--	--	Peak	145.00	100	Horizontal	N/A
3**	5752.250	92.74	--	--	AV	145.00	100	Horizontal	N/A
4	7580.500	52.91	74.0	21.09	Peak	203.00	400	Horizontal	Pass
4**	7580.500	44.18	54.0	9.82	AV	203.00	400	Horizontal	Pass
5	12492.313	52.98	74.0	21.02	Peak	11.00	150	Horizontal	Pass
5**	12492.313	43.64	54.0	10.36	AV	11.00	150	Horizontal	Pass
6	16146.750	54.23	74.0	19.77	Peak	319.00	300	Horizontal	Pass
6**	16146.750	44.75	54.0	9.25	AV	319.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1601.000	39.63	74.0	34.37	Peak	166.00	200	Vertical	Pass
1**	1601.000	30.14	54.0	23.86	AV	166.00	200	Vertical	Pass
2	3711.750	48.63	74.0	25.37	Peak	0.00	400	Vertical	Pass
2**	3711.750	41.34	54.0	12.66	AV	0.00	400	Vertical	Pass
3	5758.500	92.86	--	--	Peak	145.00	150	Vertical	N/A
3**	5758.500	85.35	--	--	AV	145.00	150	Vertical	N/A
4	7332.000	53.68	74.0	20.32	Peak	47.00	300	Vertical	Pass
4**	7332.000	43.14	54.0	10.86	AV	47.00	300	Vertical	Pass
5	12478.537	52.88	74.0	21.12	Peak	57.00	150	Vertical	Pass
5**	12478.537	43.91	54.0	10.09	AV	57.00	150	Vertical	Pass
6	16105.538	53.82	74.0	20.18	Peak	21.00	400	Vertical	Pass
6**	16105.538	45.11	54.0	8.89	AV	21.00	400	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1620.300	38.56	74.0	35.44	Peak	42.00	100	Horizontal	Pass
1**	1620.300	28.86	54.0	25.14	AV	42.00	100	Horizontal	Pass
2	3787.000	47.33	74.0	26.67	Peak	43.00	100	Horizontal	Pass
2**	3787.000	44.15	54.0	9.85	AV	43.00	100	Horizontal	Pass
3	5800.500	100.41	--	--	Peak	123.00	200	Horizontal	N/A
3**	5800.500	93.93	--	--	AV	123.00	200	Horizontal	N/A
4	7483.250	53.31	74.0	20.69	Peak	144.00	300	Horizontal	Pass
4**	7483.250	43.96	54.0	10.04	AV	144.00	300	Horizontal	Pass
5	12533.638	53.56	74.0	20.44	Peak	360.00	200	Horizontal	Pass
5**	12533.638	44.30	54.0	9.70	AV	360.00	200	Horizontal	Pass
6	16136.250	53.95	74.0	20.05	Peak	266.00	100	Horizontal	Pass
6**	16136.250	45.01	54.0	8.99	AV	266.00	100	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.500	38.80	74.0	35.20	Peak	147.00	300	Vertical	Pass
1**	1497.500	28.75	54.0	25.25	AV	147.00	300	Vertical	Pass
2	3638.250	48.06	74.0	25.94	Peak	128.00	100	Vertical	Pass
2**	3638.250	45.81	54.0	8.19	AV	128.00	100	Vertical	Pass
3	3786.750	44.79	74.0	29.21	Peak	360.00	100	Vertical	Pass
3**	3786.750	46.78	54.0	7.22	AV	360.00	100	Vertical	Pass
4	5797.250	93.98	--	--	Peak	146.00	150	Vertical	N/A
4**	5797.250	85.38	--	--	AV	146.00	150	Vertical	N/A
5	12528.412	54.11	74.0	19.89	Peak	11.00	100	Vertical	Pass
5**	12528.412	44.46	54.0	9.54	AV	11.00	100	Vertical	Pass
6	16133.888	55.29	74.0	18.71	Peak	319.00	100	Vertical	Pass
6**	16133.888	45.49	54.0	8.51	AV	319.00	100	Vertical	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1435.100	38.82	74.0	35.18	Peak	173.00	200	Horizontal	Pass
1**	1435.100	29.02	54.0	24.98	AV	173.00	200	Horizontal	Pass
2	3716.750	47.60	74.0	26.40	Peak	300.00	200	Horizontal	Pass
2**	3716.750	39.76	54.0	14.24	AV	300.00	200	Horizontal	Pass
3	5768.000	95.72	--	--	Peak	86.00	200	Horizontal	N/A
3**	5768.000	88.26	--	--	AV	86.00	200	Horizontal	N/A
4	7594.750	53.25	74.0	20.75	Peak	47.00	200	Horizontal	Pass
4**	7594.750	44.77	54.0	9.23	AV	47.00	200	Horizontal	Pass
5	12490.888	53.31	74.0	20.69	Peak	64.00	150	Horizontal	Pass
5**	12490.888	44.37	54.0	9.63	AV	64.00	150	Horizontal	Pass
6	15912.075	54.17	74.0	19.83	Peak	220.00	200	Horizontal	Pass
6**	15912.075	45.39	54.0	8.61	AV	220.00	200	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1452.000	39.38	74.0	34.62	Peak	136.00	100	Vertical	Pass
1**	1452.000	28.95	54.0	25.05	AV	136.00	100	Vertical	Pass
2	3716.750	47.73	74.0	26.27	Peak	25.00	300	Vertical	Pass
2**	3716.750	40.12	54.0	13.88	AV	25.00	300	Vertical	Pass
3	5780.250	89.00	--	--	Peak	142.00	100	Vertical	N/A
3**	5780.250	81.34	--	--	AV	142.00	100	Vertical	N/A
4	7645.500	53.57	74.0	20.43	Peak	349.00	200	Vertical	Pass
4**	7645.500	44.99	54.0	9.01	AV	349.00	200	Vertical	Pass
5	12511.075	53.18	74.0	20.82	Peak	275.00	200	Vertical	Pass
5**	12511.075	44.59	54.0	9.41	AV	275.00	200	Vertical	Pass
6	15898.424	54.28	74.0	19.72	Peak	290.00	300	Vertical	Pass
6**	15898.424	44.81	54.0	9.19	AV	290.00	300	Vertical	Pass

A.6.2 Band Edge (Restricted-band)

Test Band	Mode	Channel	Verdict
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-3 11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5635.000	56.56	68.2	11.64	Peak	288.00	150	Horizontal	Pass
2	5650.000	55.22	68.2	12.98	Peak	132.00	100	Horizontal	Pass

U-NII-3 11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.15	68.4	13.25	Peak	86.00	100	Horizontal	Pass
2	5974.250	57.71	68.2	10.49	Peak	307.00	100	Horizontal	Pass

U-NII-3 11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5622.500	56.21	68.2	11.99	Peak	344.00	200	Horizontal	Pass
2	5650.000	55.59	68.2	12.61	Peak	197.00	100	Horizontal	Pass

U-NII-3 11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.38	68.4	13.02	Peak	1.00	100	Horizontal	Pass
2	5972.000	58.24	68.2	9.96	Peak	241.00	200	Horizontal	Pass

U-NII-3 11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5649.375	55.95	68.2	12.25	Peak	0.00	100	Horizontal	Pass
2	5650.000	54.71	68.2	13.49	Peak	0.00	100	Horizontal	Pass

U-NII-3 11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.66	68.4	12.74	Peak	1.00	200	Horizontal	Pass
2	5978.750	56.94	68.2	11.26	Peak	356.00	100	Horizontal	Pass

U-NII-3 11ac20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5636.458	56.07	68.2	12.13	Peak	252.00	200	Horizontal	Pass
2	5650.000	55.33	68.2	12.87	Peak	93.00	150	Horizontal	Pass

U-NII-3 11ac20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.44	68.4	12.96	Peak	0.00	150	Horizontal	Pass
2	5933.500	56.79	68.2	11.41	Peak	60.00	150	Horizontal	Pass

U-NII-3 11ac40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5635.209	56.18	68.2	12.02	Peak	254.00	150	Horizontal	Pass
2	5650.000	55.20	68.2	13.00	Peak	360.00	100	Horizontal	Pass

U-NII-3 11ac40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.50	68.4	12.90	Peak	122.00	200	Horizontal	Pass
2	5970.750	57.40	68.2	10.80	Peak	105.00	100	Horizontal	Pass

U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5636.042	56.26	68.2	11.94	Peak	254.00	200	Horizontal	Pass
2	5650.000	55.26	68.2	12.94	Peak	359.00	200	Horizontal	Pass

U-NII-3 11ac80 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	5924.750	55.51	68.4	12.89	Peak	113.00	200	Horizontal	Pass
2	5997.000	57.61	68.2	10.59	Peak	298.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2570858-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2570858-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2570858-AI.PDF”.

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--END OF REPORT--