

FCC
RF
TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Head-Mounted Virtual Reality Equipment

ISSUED TO
Chengdu Idealsee Technology Co., Ltd.

Tower B, New Hope Building, No.69, Tianfu No.3 Street, Mid Section,
Tianfu Avenue, High-Tech Zone, Chengdu, China



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Date *Jul. 03. 2017*

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Liao Jianming

(Technical Director)

Date *Jul. 03. 2017*

Report No.: BL-SZ1740297-604

EUT Name: Head-Mounted Virtual Reality Equipment

Model Name: K2+

Brand Name: IDEALENS

Test Standard: 47 CFR Part 15 Subpart E

FCC ID: 2AI35-K2

Test conclusion: Pass

Test Date: May 15, 2017 ~ May 22, 2017

Date of Issue: Jul. 03, 2017

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Revision History

Version	Issue Date	Revisions Content
<u>Rev. 01</u>	<u>Jul. 03, 2017</u>	<u>Initial Issue</u>

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

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

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	<p>The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1.</p> <p>The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625.</p> <p>The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.</p>
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Laboratory Condition

Ambient Temperature	20 to 25°C
Ambient Relative Humidity	45% - 55%
Ambient Pressure	100 kPa - 102 kPa

1.4 Announce

- (1) The test report reference to the report template version v4.0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	Chengdu Idealsee Technology Co., Ltd.
Address	Tower B, New Hope Building, No.69, Tianfu No.3 Street, Mid Section, Tianfu Avenue, High-Tech Zone, Chengdu ,China

2.2 Manufacturer

Manufacturer	Chengdu Idealens Technology Co., Ltd.
Address	Room 101, Building C2, District C of Tianfu Software Park, No. 219 of Tianhua 2nd Road, High-tech Zone, Chengdu, Sichuan, China

2.3 Factory

Factory	Foxconn science and Ji Zhun Precision Industry(Huizhou) Co., Ltd.
Address	Ditch Village,Longxi Town,Boluo County,Huizhou City, Guangdong Province.

2.4 General Description for Equipment under Test (EUT)

EUT Type	Head-Mounted Virtual Reality Equipment
Model Name Under Test	K2+
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	P2
Software Version	0.7.0.0
Network and Wireless connectivity	Bluetooth 3.0, Bluetooth 4.0 Low Energy (BLE), WIFI 802.11a, 802.11b, 802.11g and 802.11n(HT20/40), 802.11ac

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	IDEALENS
	Model No.	904764P
	Serial No.	N/A
	Capacitance	3800 mAh
	Rated Voltage	3.8 V
	Limited Voltage	4.35 V
Ancillary Equipment 2	Charger	
	Brand Name	IDEALENS
	Model No.	TUUS050200-L00
	Serial No.	N/A
	Rated Input	100-240 V~, 0.35 A, 50/60 Hz
	Rated Output	5 V=, 2 A
Ancillary Equipment 3	USB Data Cable	
	Length	1.0 m

2.6 Technical Information

Frequency Range	Band I: 5150 MHz to 5250 MHz, Band IV: 5725 MHz to 5850 MHz
Modulation technology	OFDM
Modulation Type	256QAM, 64QAM, 16QAM, BPSK, QPSK
Product Type	Mobile
Transfer Rate (Mbps) (Single RF path)	802.11a: 54/ 48/ 36 / 24 / 18 / 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	Band I: 19.62 dBm Band IV: 11.03 dBm
Antenna Type	Coupling Ceramics Antenna
Antenna Gain	Band I: 5150 MHz to 5250 MHz: 3.3 dBi Band IV: 5725 MHz to 5850 MHz: 3.3 dBi

2.7 Additional Instructions

Mode	<input checked="" type="checkbox"/> Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.
------	--

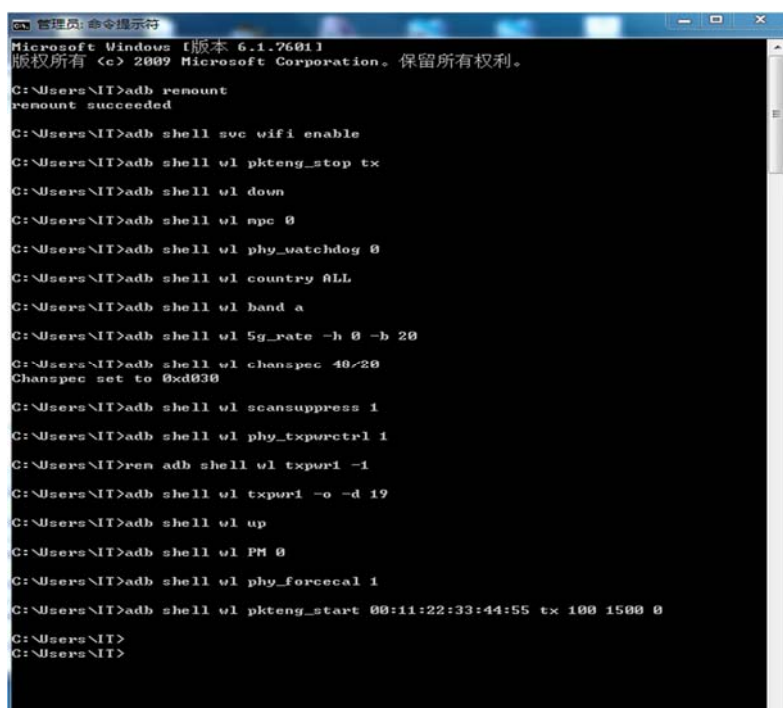
During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

EUT Software Settings:

Power level setup in software			
Test Software Version	adb		
Support Units (Software installation media)	Description	Manufacturer	Model
	Laptop	Lenovo	X220

Band I (5150 - 5250 MHz), Band IV: 5725 MHz to 5850 MHz Power level setup in software.		
Test Software Version	Using a built-in CMD command tool.	
Mode	Channel	Soft Set
11a	ALL	19
11n (HT20)	ALL	19
11n (HT40)	ALL	19
11ac (HT80)	ALL	19

Run Software



```

Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

C:\Users\IT>adb remount
remount succeeded

C:\Users\IT>adb shell svc wifi enable

C:\Users\IT>adb shell w1 pkteng_stop tx

C:\Users\IT>adb shell w1 down

C:\Users\IT>adb shell w1 npe 0

C:\Users\IT>adb shell w1 phy_watchdog 0

C:\Users\IT>adb shell w1 country ALL

C:\Users\IT>adb shell w1 band a

C:\Users\IT>adb shell w1 5g_rate -h 0 -b 20

C:\Users\IT>adb shell w1 chanspec 40/20
Chanspec set to 0xd030

C:\Users\IT>adb shell w1 scansuppress 1

C:\Users\IT>adb shell w1 phy_txpwrctrl 1

C:\Users\IT>ren adb shell w1 txpwr1 -1

C:\Users\IT>adb shell w1 txpwr1 -o -d 19

C:\Users\IT>adb shell w1 up

C:\Users\IT>adb shell w1 PM 0

C:\Users\IT>adb shell w1 phy_forcecal 1

C:\Users\IT>adb shell w1 pkteng_start 00:11:22:33:44:55 tx 100 1500 0

C:\Users\IT>
C:\Users\IT>

```

2.8 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	155	5775
44	5220	151	5755	\	\
48	5240	159	5795	\	\
149	5745	\	\	\	\
157	5785	\	\	\	\
161	5825	\	\	\	\

Note: Until further notice, devices subject to this section shall not be capable of transmitting in the band 5600-5650 MHz. This restriction is for the protection of weather radars operating in this band.

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)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
40	Mid	5200	157	Mid	5785
48	High	5240	161	High	5825

For 802.11n (HT40)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

For 802.11ac (HT80)

Band I (5150 - 5250 MHz)			Band IV (5470 - 5725 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
42	Low	5210	155	Low	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 Technology	Modulation Type	Band I	Band IV
					Channel	Channel
RF Output Power	11a	6	OFDM	BPSK	48/40/36	161/157/149
	11n(20 MHz)	6.5	OFDM	BPSK	48/40/36	161/157/149
	11n(40 MHz)	13.5	OFDM	BPSK	46/38	159/151
	11ac(80 MHz)	V0	OFDM	BPSK	42	155
Emission Bandwidth & 99% Occupied Bandwidth	11a	6	OFDM	BPSK	48/40/36	161/157/149
	11n(20 MHz)	6.5	OFDM	BPSK	48/40/36	161/157/149
	11n(40 MHz)	13.5	OFDM	BPSK	46/38	159/151
	11ac(80 MHz)	V0	OFDM	BPSK	42	155
6 dB bandwidth	11a	6	OFDM	BPSK	N/A	161/157/149
	11n(20 MHz)	6.5	OFDM	BPSK	N/A	161/157/149
	11n(40 MHz)	13.5	OFDM	BPSK	N/A	159/151
	11ac(80 MHz)	V0	OFDM	BPSK	N/A	155
Power Spectral Density	11a	6	OFDM	BPSK	48/40/36	161/157/149
	11n(20 MHz)	6.5	OFDM	BPSK	48/40/36	161/157/149
	11n(40 MHz)	13.5	OFDM	BPSK	46/38	159/151
	11ac(80 MHz)	V0	OFDM	BPSK	42	155
Conducted Spurious Emissions	11a	6	OFDM	BPSK	48/40/36	161/157/149
	11n(20 MHz)	6.5	OFDM	BPSK	48/40/36	161/157/149
	11n(40 MHz)	13.5	OFDM	BPSK	46/38	159/151
	11ac(80 MHz)	V0	OFDM	BPSK	42	155
Radiated Spurious Emissions	11a	6	OFDM	BPSK	48/40/36	161/157/149
	11n(20 MHz)	6.5	OFDM	BPSK	48/40/36	161/157/149
	11n(40 MHz)	13.5	OFDM	BPSK	46/38	159/151
	11ac(80 MHz)	V0	OFDM	BPSK	42	155
Frequency Stability	11a	6	OFDM	BPSK	40	157
	11n(20 MHz)	6.5	OFDM	BPSK	40	157
	11n(40 MHz)	13.5	OFDM	BPSK	38	151
	11ac(80 MHz)	V0	OFDM	BPSK	42	155
Band Edge	11a	6	OFDM	BPSK	36	161/149
	11n(20 MHz)	6.5	OFDM	BPSK	36	161/149
	11n(40 MHz)	13.5	OFDM	BPSK	38	159/151
	11ac(80 MHz)	V0	OFDM	BPSK	42	155

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart E (10-1-15 Edition)	Unlicensed National Information Infrastructure Devices
2	KDB Publication 789033 D02v01r03	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 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 ^{Note2}
3	Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	ANNEX A.2	Pass ^{Note2}
4	6 dB bandwidth	15.407(e)	ANNEX A.3	Pass ^{Note2}
5	Power Spectral Density	15.407(a)	ANNEX A.4	Pass ^{Note2}
6	Conducted Emission	15.207	ANNEX A.5	Pass ^{Note2}
7	Conducted Spurious Emission and Band Edge (Authorized-band)	15.407(b) 15.209	ANNEX A.6	Pass ^{Note2}
8	Radiated Spurious Emissions and Band Edge (Restricted-band)	15.407(b)	ANNEX A.7	Pass ^{Note2}
9	Frequency Stability	15.407(g)	ANNEX A.8	Pass ^{Note2}

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

Note ²: Because of the EUT (Test sample in this report) with the test sample (Test report No. is BL-SZ1660028-604 (which is issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 22. 2016) just model name, Motherboard and display changes. So the supplement differences in the test just RF Output Power and Radiated Emission. Other test items please refer to the report BL-SZ1660028-604 issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 22. 2016.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	45% - 55%	
Atmospheric Pressure	100 kPa - 102 kPa	
Temperature	NT (Normal Temperature)	+22°C to +25°C
	LT (Low Temperature)	-10°C
	HT (High Temperature)	+60°C
Working Voltage of the EUT	NV (Normal Voltage)	3.8 V
	LV (Low Voltage)	3.5 V
	HV (High Voltage)	4.35 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2016.07.13	2017.07.12
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2016.07.13	2017.07.12
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2016.09.09	2017.09.08
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2016.07.05	2017.07.04
LISN	SCHWARZBECK	NSLK 8127	8127-687	2016.07.05	2017.07.04
Bluetooth Tester	ROHDE&SCHWARZ	CBT	101005	2016.07.13	2017.07.12
Power Splitter	KMW	DCPD-LDC	1305003215	--	--
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2016.07.13	2017.07.12
Attenuator (20 dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6 dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2016.07.13	2017.07.12
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2016.07.13	2017.07.12
Test Antenna- Loop(9 kHz-30 MHz)	SCHWARZBECK	FMZB 1519	1519-037	2015.07.22	2017.07.21
Test Antenna- Bi-Log(30 MHz-3 GHz)	SCHWARZBECK	VULB 9163	9163-624	2015.07.22	2017.07.21
Test Antenna- Horn(1-18 GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2015.07.22	2017.07.21
Test Antenna- Horn(15-26.5 GHz)	SCHWARZBECK	BBHA 9170	9170-305	2015.07.22	2017.07.21
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2019.02.20
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2016.08.09	2018.08.08
Shielded Enclosure	ChangNing	CN-130701	130703	--	--
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2016.07.13	2017.07.12
Power Amplifier	OPHIR RF	5225F	1037	2017.02.17	2018.02.16

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Power Amplifier	OPHIR RF	5273F	1016	2017.02.17	2018.02.16
Directional Coupler	Werlantone	C5982-10	109275	N/A	N/A
Directional Coupler	Werlantone	CHP-273E	S00801z-01	N/A	N/A
Feld Strength Meter	Narda	EP601	511WX51129	2017.02.23	2018.02.22
Mouth Simulator	B&K	4227	2423931	2016.11.15	2017.11.14
Sound Calibrator	B&K	4231	2430337	2016.11.09	2017.11.08
Sound Level Meter	B&K	NL-20	00844023	2016.11.11	2017.11.10
Ear Simulator	B&K	4185	2409449	2016.11.15	2017.11.14
Ear Simulator	B&K	4195	2418189	2016.11.15	2017.11.14
Audio analyzer	B&K	UPL 16	100129	2016.11.08	2017.11.07

4.3 Measurement Uncertainty

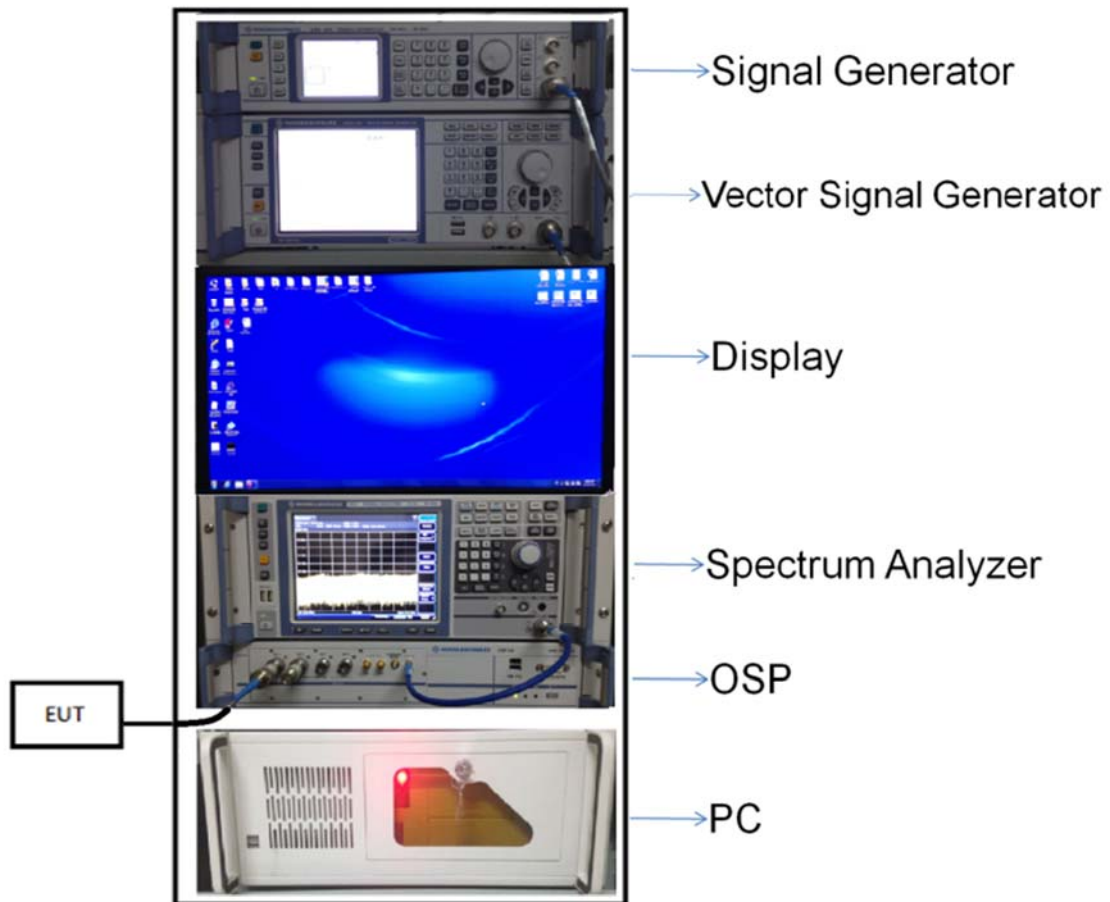
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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

Measurement	Value
Occupied Channel Bandwidth	±4%
RF output power, conducted	±1.4 dB
Power Spectral Density, conducted	±2.5 dB
Unwanted Emissions, conducted	±2.8 dB
All emissions, radiated	±5.4 dB
Temperature	±1°C
Humidity	±4%

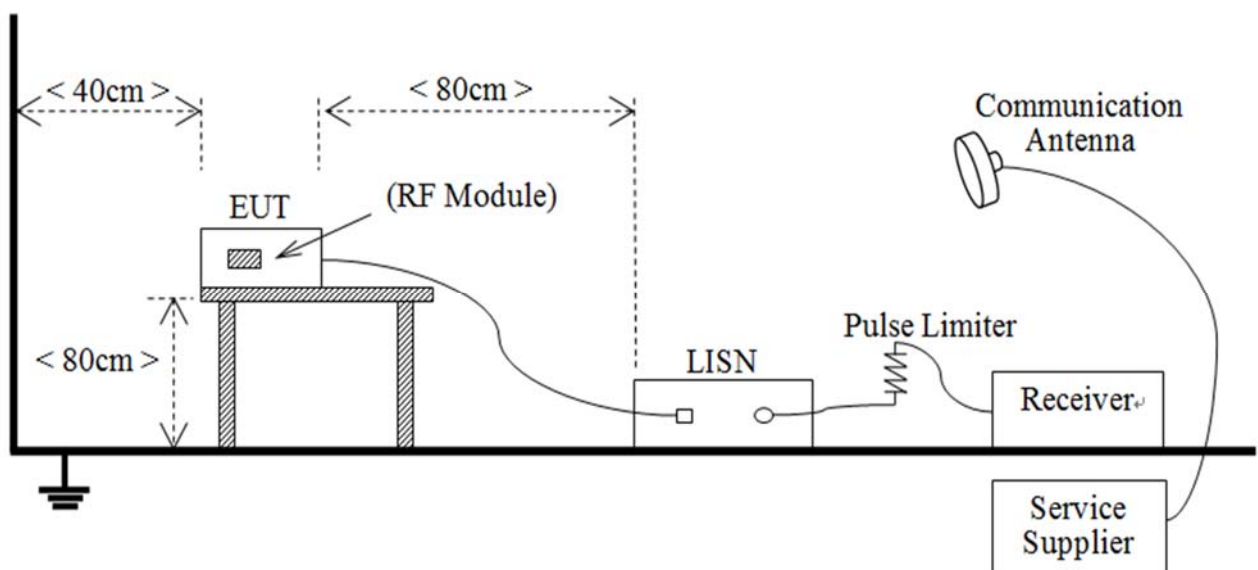
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



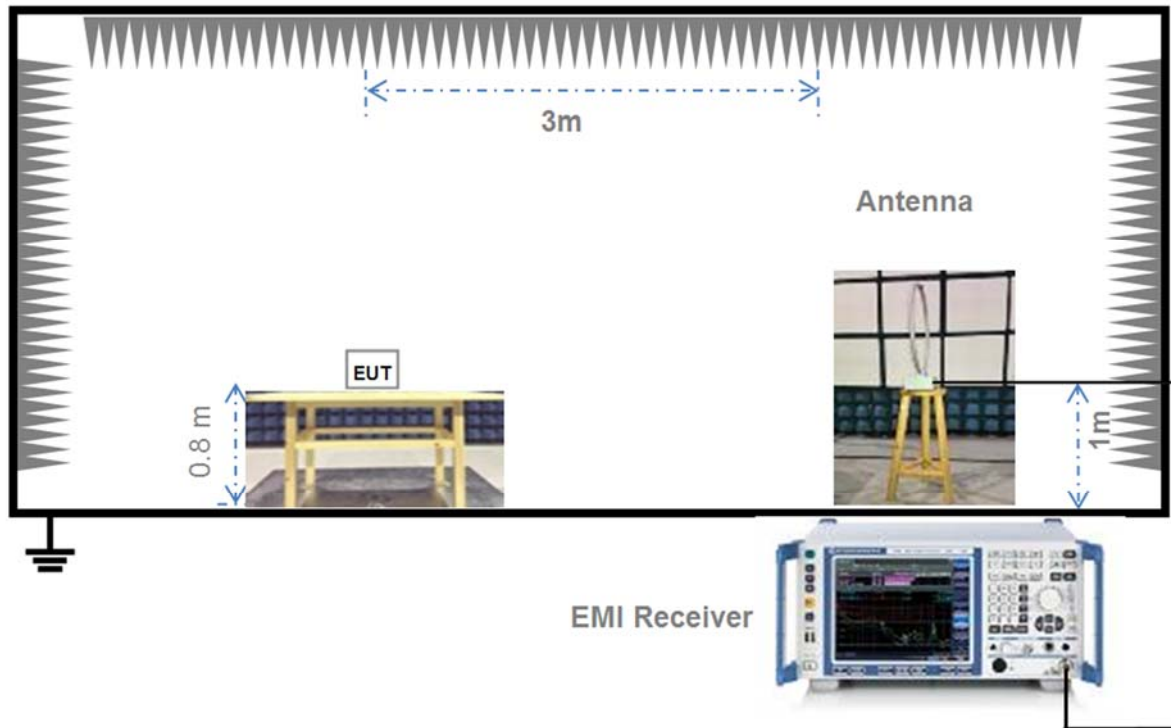
(Diagram 1)

4.4.2 For AC Power Supply Port Test



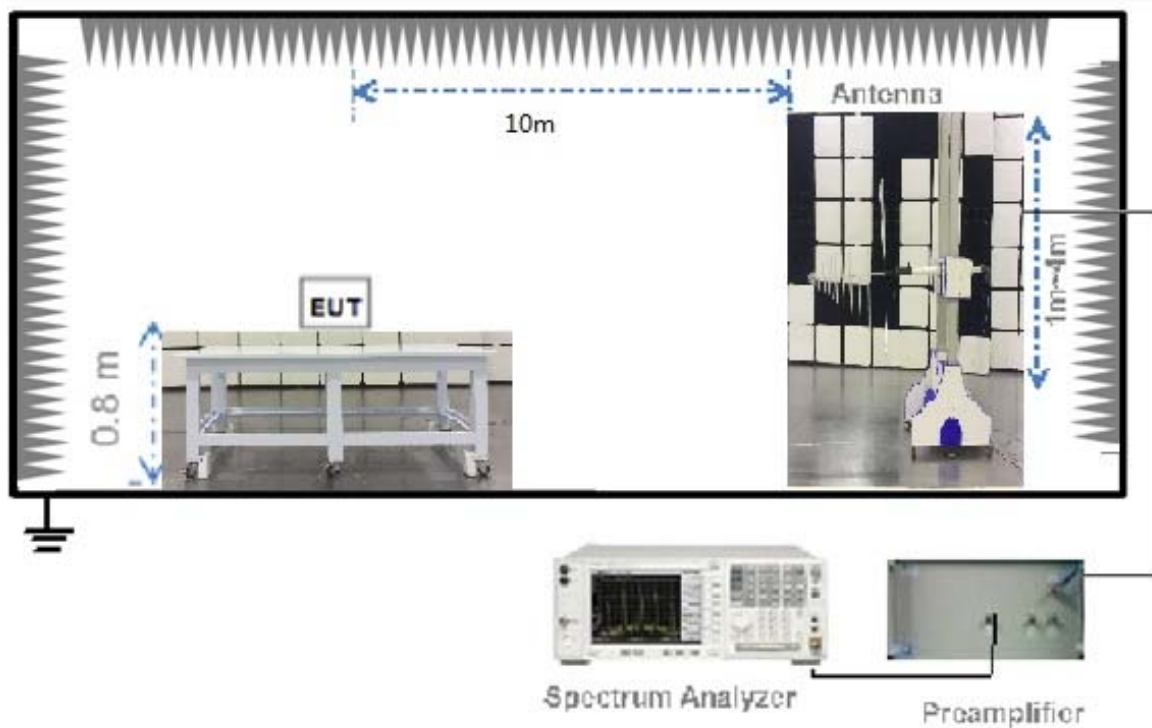
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

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
Note: Where "B" is the 99% emissions bandwidth in MHz.	

5.1.2 Test Setup

The section 4.4.1 (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

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

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 4.4.1 (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

5.3.2 Test Setup

The section 4.4.1 (Diagram 1) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

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

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

5.3.4 Test Result

Please refer to ANNEX A.4.

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207, 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 band 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 4.4.2 (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.

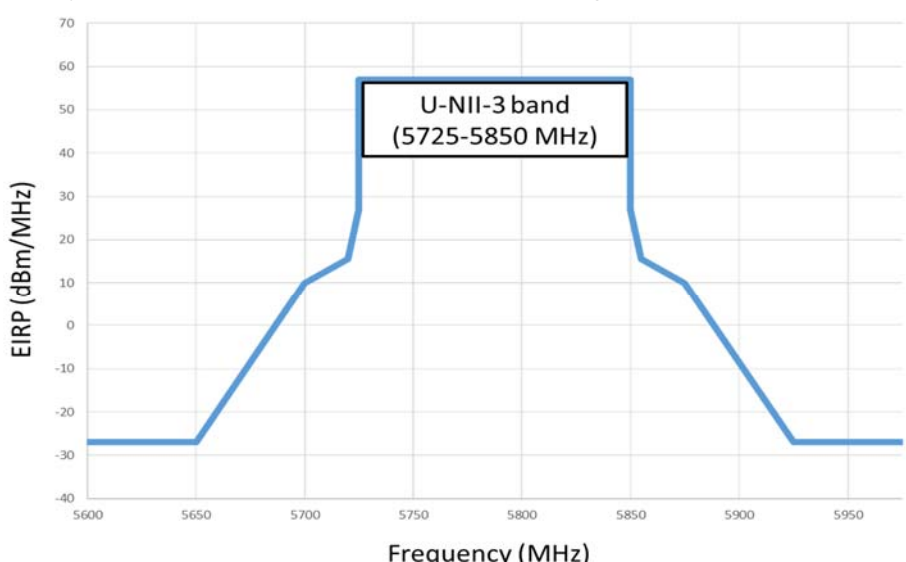
5.4.4 Test Result

Please refer to ANNEX A.5.

5.5 Conducted Spurious Emission and Band Edge (Authorized-band)

5.5.1 Limit

FCC §15.407(b)

Un-restricted band emissions	
Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
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> 

RSS-247, 6.2

Un-restricted band emissions	
Frequency Band (MHz)	Limit
5150 - 5250	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm, However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz.
5250 - 5350	Outside of the 5.15-5.35 GHz band: e.i.r.p. -27 dBm. And any emissions within the band 5150-5250 MHz shall meet the power spectral density limits of 10 dBm/MHz, The device shall be labelled "for indoor use only."
5470 - 5725	Outside of the 5.47-5.725 GHz band: e.i.r.p. -27 dBm
5725 - 5850	<p>5715 -5725 MHz: e.i.r.p. -17 dBm</p> <p>5850 -5860 MHz: e.i.r.p. -17 dBm</p> <p>Other un-restricted band: e.i.r.p. -27 dBm</p>

5.5.2 Test Setup

See section 4.4.2 (Diagram 2) for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

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

Allow the trace to stabilize

5.5.4 Test Result

Please refer to ANNEX A.6.

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

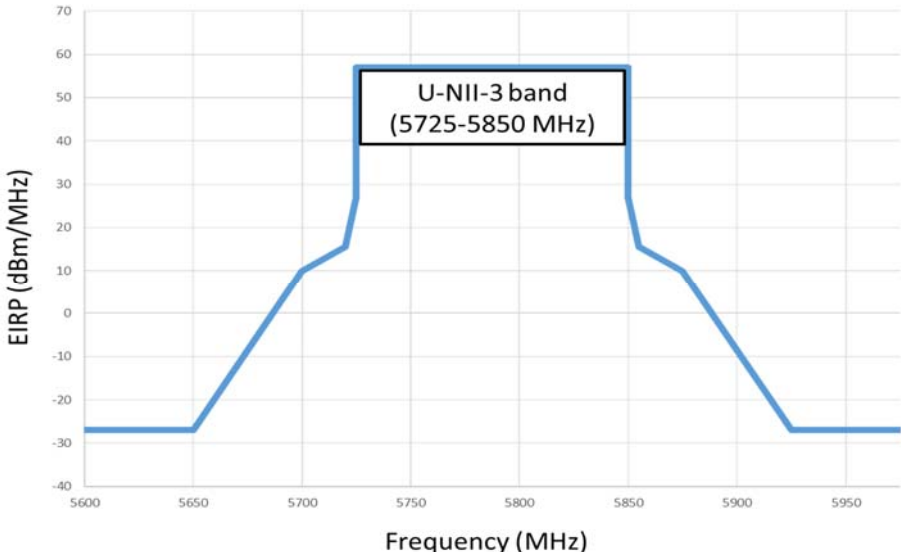
5.6.1 Limit

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.

5.6.2 Test Setup

The section 4.4.3-4.4.5 (Diagram 3 - Diagram 5) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.6.3 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 maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see guidance on determining the applicable antenna gain)
- c) 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).
- d) 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).
- e) 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.

- f) Compare the resultant electric field strength level to the applicable limit.
- g) 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

5.6.4 Test Result

Please refer to ANNEX A.7 and Please refer to ANNEX A.9

5.7 Frequency Stability

5.7.1 Limit

FCC §15.407(g)

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

5.7.2 Test Setup

The section 4.4.6 (Diagram 6) test setup description was used for this test. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

The EUT is installed in an environment test chamber with external power source.

Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT.

A sufficient stabilization period at each temperatures is used prior to each frequency measurement.

When temperature is stabled, measure the frequency stability.

The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage.

Change setting of chamber and external power source to complete all conditions.

5.7.4 Test Result

Please refer to ANNEX A.8.

ANNEX A TEST RESULT

A.1 RF Output Power

Test data

Band I (5150 - 5250 MHz)						
Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (mW)	Verdict
11a	CH36	5180	5.16	3.28	250	Pass
11a	CH44	5220	4.47	2.80	250	Pass
11a	CH48	5240	4.39	2.75	250	Pass
11n(HT20)	CH36	5180	5.39	3.46	250	Pass
11n(HT20)	CH44	5220	4.56	2.86	250	Pass
11n(HT20)	CH48	5240	4.62	2.90	250	Pass
11n(HT40)	CH38	5190	4.82	3.03	250	Pass
11n(HT40)	CH46	5230	4.13	2.59	250	Pass
11ac(HT20)	CH36	5180	5.18	3.30	250	Pass
11ac(HT20)	CH44	5220	4.25	2.66	250	Pass
11ac(HT20)	CH48	5240	4.49	2.81	250	Pass
11ac(HT40)	CH38	5190	3.25	2.11	250	Pass
11ac(HT40)	CH46	5230	2.57	1.81	250	Pass
11ac(HT80)	CH42	5210	1.29	1.35	250	Pass

Band IV (5725 - 5850 MHz)						
Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Conducted Power (mW)	FCC Limit (W)	Verdict
11a	CH149	5745	6.60	4.57	1.00	Pass
11a	CH157	5785	5.72	3.73	1.00	Pass
11a	CH165	5825	4.61	2.89	1.00	Pass
11n(HT20)	CH149	5745	6.42	4.39	1.00	Pass
11n(HT20)	CH157	5785	5.94	3.93	1.00	Pass
11n(HT20)	CH165	5825	4.60	2.88	1.00	Pass
11n(HT40)	CH151	5755	6.00	3.98	1.00	Pass
11n(HT40)	CH159	5795	5.05	3.20	1.00	Pass
11ac(HT20)	CH149	5745	6.39	4.36	1.00	Pass
11ac(HT20)	CH157	5785	5.85	3.85	1.00	Pass
11ac(HT20)	CH165	5825	4.20	2.63	1.00	Pass
11ac(HT40)	CH151	5755	4.65	2.92	1.00	Pass
11ac(HT40)	CH159	5795	3.58	2.28	1.00	Pass
11ac(HT80)	CH155	5775	2.37	1.73	1.00	Pass

A.2 Emission Bandwidth & 99% Bandwidth

Note: Emission Bandwidth & 99% Bandwidth result reference from original test report: BL-SZ1660028-604 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 22. 2016) A.2 Emission Bandwidth & 99% Bandwidth.

A.3 6 dB Bandwidth

Note: 6 dB Bandwidth result reference from original test report: BL-SZ1660028-604 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 22. 2016) A.3 6 dB Bandwidth.

A.4 Power Spectral Density

Note: Power Spectral Density result reference from original test report: BL-SZ1660028-604 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 22. 2016) A.4 Power Spectral Density.

A.5 Conducted Emissions

Note: Conducted Emissions result reference from original test report: BL-SZ1660028-604 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 22. 2016) A.5 Conducted Emissions.

A.6 Conducted Spurious Emission and Band Edge (Authorized-band)

Note: Conducted Spurious Emission and Band Edge (Authorized-band) result reference from original test report: BL-SZ1660028-604 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 22. 2016) A.6 Conducted Spurious Emission and Band Edge (Authorized-band).

A.7 Radiated Spurious Emissions and Band Edge (Restricted-band)

Test Data

Cabinet Radiated spurious emission test

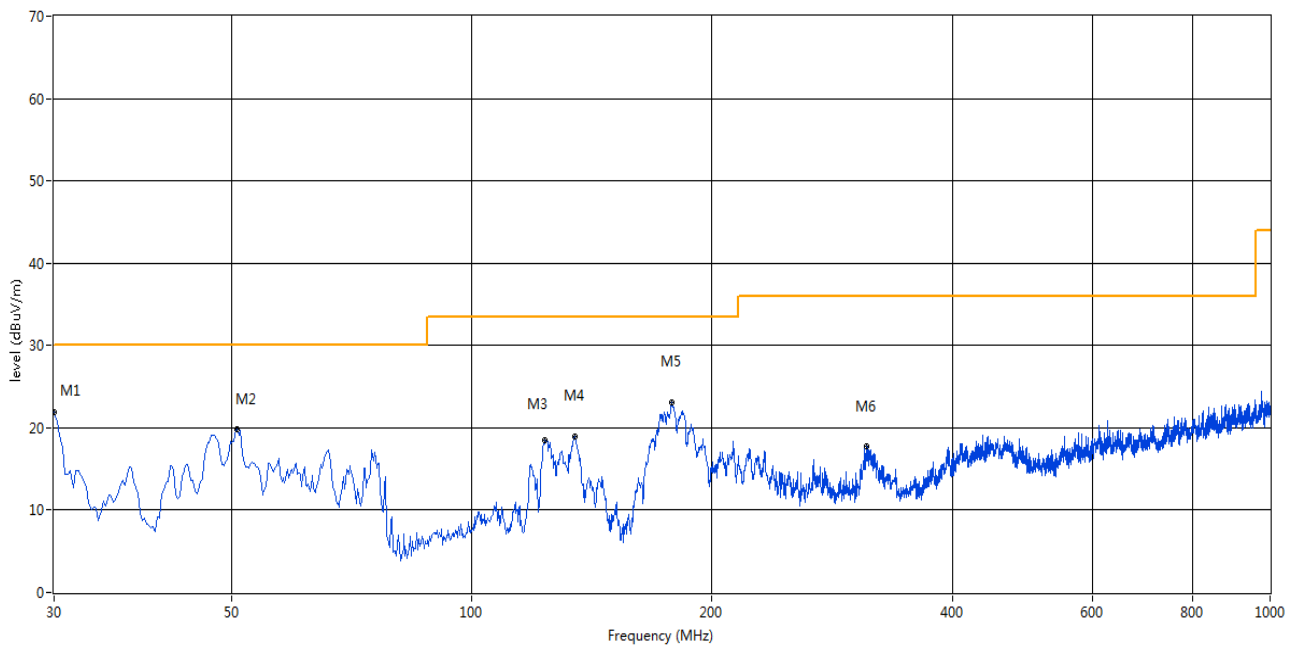
Note¹: The symbol of “--” in the table which means not application.

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.

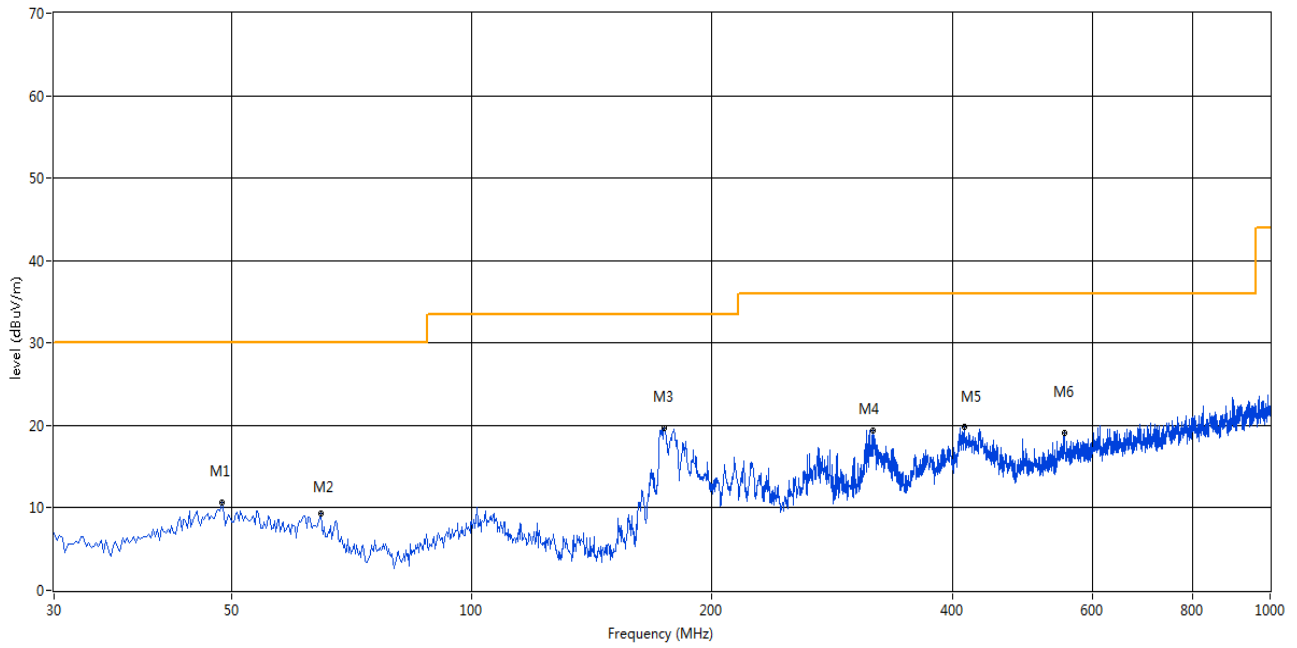
Note⁴: The EUT is working in the Normal link mode below 1 GHz.

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	30.000	21.94	-16.39	30.0	8.06	Peak	360.00	300	Vertical	Pass
2	50.850	19.77	-13.38	30.0	10.23	Peak	299.00	100	Vertical	Pass
3	123.339	18.53	-17.71	33.5	14.97	Peak	150.00	100	Vertical	Pass
4	134.734	18.93	-18.76	33.5	14.57	Peak	108.00	100	Vertical	Pass
5	178.373	23.05	-17.10	33.5	10.45	Peak	144.00	100	Vertical	Pass
6	312.199	17.72	-12.06	36.0	18.28	Peak	299.00	100	Vertical	Pass

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	48.668	10.62	-13.28	30.0	19.38	Peak	66.00	100	Horizontal	Pass
2	64.669	9.34	-15.69	30.0	20.66	Peak	0.00	100	Horizontal	Pass
3	174.494	19.63	-17.41	33.5	13.87	Peak	234.00	300	Horizontal	Pass
4	317.776	19.46	-11.89	36.0	16.54	Peak	264.00	300	Horizontal	Pass
5	414.509	19.89	-9.37	36.0	16.11	Peak	73.00	300	Horizontal	Pass
6	553.427	19.09	-6.65	36.0	16.91	Peak	210.00	100	Horizontal	Pass

Test Frequency: 18 GHz ~ 40 GHz

Note: Only noise floor was seen above 18 GHz and not reported.

1 GHz to 18 GHz, ANT V Band I 802.11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2298.31	42.08	-2.96	68.2	26.12	Peak	16.8	150	Vertical	PASS
2	4970.15	46.86	9.42	68.2	21.34	Peak	3.3	150	Vertical	PASS
3	5180.73	90.64	9.77	68.2	-22.44	Peak	226.1	150	Vertical	N/A
4	7020.37	43.11	12.75	68.2	25.09	Peak	102.1	150	Vertical	PASS
5	12395.50	45.05	17.62	68.2	23.15	Peak	135.7	150	Vertical	PASS
6	17964.25	55.00	20.27	68.2	23.20	Peak	189.8	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band I 802.11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2350.06	45.40	-3.25	68.2	22.80	Peak	318.8	150	Horizontal	PASS
2	2996.74	47.74	-0.66	68.2	20.46	Peak	349.7	150	Horizontal	PASS
3	5180.69	102.22	9.68	68.2	-34.02	Peak	45.8	150	Horizontal	N/A
4	7025.80	43.82	12.92	68.2	24.38	Peak	36.5	150	Horizontal	PASS
5	14279.25	49.12	17.09	68.2	19.08	Peak	133.1	150	Horizontal	PASS
6	17571.00	51.46	21.32	68.2	16.74	Peak	195.6	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band I 802.11a Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2298.47	42.73	-3.03	68.2	25.47	Peak	139.6	150	Vertical	PASS
2	4975.25	46.96	9.51	68.2	21.24	Peak	341.4	150	Vertical	PASS
3	5220.93	90.12	9.71	68.2	-21.92	Peak	334	150	Vertical	N/A
4	7022.69	43.36	12.66	68.2	24.84	Peak	248.6	150	Vertical	PASS
5	13358.00	45.55	16.71	68.2	22.65	Peak	268.3	150	Vertical	PASS
6	17881.75	48.71	19.99	68.2	19.49	Peak	81.8	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band I 802.11a Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2350.88	46.43	-3.22	68.2	21.77	Peak	46.2	150	Horizontal	PASS
2	2994.81	48.10	-0.66	68.2	20.10	Peak	69.2	150	Horizontal	PASS
3	5220.32	101.15	9.72	68.2	-32.95	Peak	94.4	150	Horizontal	N/A
4	7040.24	42.54	12.92	68.2	25.66	Peak	138.3	150	Horizontal	PASS
5	9092.75	39.33	13.99	68.2	28.87	Peak	127.7	150	Horizontal	PASS
6	10283.50	45.42	16.13	68.2	22.78	Peak	125.9	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band I 802.11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2300.82	43.01	-3.03	68.2	25.19	Peak	94.7	150	Vertical	PASS
2	4974.36	47.12	9.51	68.2	21.08	Peak	241	150	Vertical	PASS
3	5240.59	90.70	9.82	68.2	-22.50	Peak	262.9	150	Vertical	N/A
4	7016.23	43.17	12.63	68.2	25.03	Peak	46.7	150	Vertical	PASS
5	11276.25	46.10	19.88	68.2	22.10	Peak	245.4	150	Vertical	PASS
6	15046.50	50.35	25.61	68.2	17.85	Peak	166.8	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band I 802.11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2351.47	45.59	-3.22	68.2	22.61	Peak	262.5	150	Horizontal	PASS
2	2998.18	49.07	-0.69	68.2	19.13	Peak	156.8	150	Horizontal	PASS
3	5240.08	100.40	9.73	68.2	-32.20	Peak	127	150	Horizontal	N/A
4	7030.23	43.63	12.91	68.2	24.57	Peak	342.5	150	Horizontal	PASS
5	8960.75	40.64	14.90	68.2	27.56	Peak	333.3	150	Horizontal	PASS
6	11521.00	40.82	17.77	68.2	27.38	Peak	333.2	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band I 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2298.92	41.70	-2.99	68.2	26.50	Peak	270.5	150	Vertical	PASS
2	4971.87	46.90	9.57	68.2	21.30	Peak	310.6	150	Vertical	PASS
3	5180.63	89.54	9.77	68.2	-21.34	Peak	100.1	150	Vertical	N/A
4	7026.60	43.69	12.66	68.2	24.51	Peak	322.1	150	Vertical	PASS
5	11515.50	44.63	19.08	68.2	23.57	Peak	161.3	150	Vertical	PASS
6	17334.50	51.99	22.99	68.2	16.21	Peak	216.9	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band I 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2348.73	46.44	-3.25	68.2	21.76	Peak	332.5	150	Horizontal	PASS
2	2996.24	48.01	-0.74	68.2	20.19	Peak	204.7	150	Horizontal	PASS
3	5180.29	101.17	9.71	68.2	-32.97	Peak	206.3	150	Horizontal	N/A
4	7030.23	44.16	12.96	68.2	24.04	Peak	123.3	150	Horizontal	PASS
5	14656.00	46.85	19.33	68.2	21.35	Peak	137.1	150	Horizontal	PASS
6	16229.00	52.42	26.13	68.2	15.78	Peak	286.7	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band I 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2298.42	42.47	-2.99	68.2	25.73	Peak	341	150	Vertical	PASS
2	4975.35	45.66	9.42	68.2	22.54	Peak	40	150	Vertical	PASS
3	5220.52	89.59	9.90	68.2	-21.39	Peak	190	150	Vertical	N/A
4	7023.13	42.66	12.65	68.2	25.54	Peak	105.1	150	Vertical	PASS
5	13314.00	48.32	19.90	68.2	19.88	Peak	8.6	150	Vertical	PASS
6	17664.50	53.18	22.96	68.2	20.02	Peak	202.5	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band I 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2352.72	45.39	-3.19	68.2	22.81	Peak	264.4	150	Horizontal	PASS
2	2998.50	49.31	-0.74	68.2	18.89	Peak	357.8	150	Horizontal	PASS
3	5220.05	102.01	9.72	68.2	-33.81	Peak	340.3	150	Horizontal	N/A
4	7029.13	44.06	12.96	68.2	24.14	Peak	135.9	150	Horizontal	PASS
5	9296.25	40.62	15.31	68.2	27.58	Peak	230.5	150	Horizontal	PASS
6	10181.75	41.86	16.24	68.2	26.34	Peak	330	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band I 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2295.32	42.45	-3.03	68.2	25.75	Peak	114.7	150	Vertical	PASS
2	4975.82	47.22	9.40	68.2	20.98	Peak	324.3	150	Vertical	PASS
3	5240.86	90.42	9.88	68.2	-22.22	Peak	319.7	150	Vertical	N/A
4	7014.33	42.99	12.67	68.2	25.21	Peak	243.4	150	Vertical	PASS
5	12260.75	46.46	19.32	68.2	21.74	Peak	124.7	150	Vertical	PASS
6	15624.00	50.89	23.92	68.2	17.31	Peak	78.5	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band I 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2347.15	46.44	-3.22	68.2	21.76	Peak	49.8	150	Horizontal	PASS
2	2996.18	48.98	-0.69	68.2	19.22	Peak	196.6	150	Horizontal	PASS
3	5240.60	100.73	9.68	68.2	-32.53	Peak	174.7	150	Horizontal	N/A
4	7028.94	42.67	12.81	68.2	25.53	Peak	169.4	150	Horizontal	PASS
5	9953.50	43.35	14.19	68.2	24.85	Peak	306.4	150	Horizontal	PASS
6	10404.50	45.40	15.70	68.2	22.80	Peak	204.4	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band I 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2296.20	43.38	-3.03	68.2	24.82	Peak	233.2	150	Vertical	PASS
2	4972.83	46.88	9.51	68.2	21.32	Peak	194.6	150	Vertical	PASS
3	5190.56	89.38	9.71	68.2	-21.18	Peak	220.3	150	Vertical	N/A
4	7014.78	43.21	12.67	68.2	24.99	Peak	108.3	150	Vertical	PASS
5	9893.00	42.47	14.42	68.2	25.73	Peak	163.4	150	Vertical	PASS
6	10935.25	44.82	17.71	68.2	23.38	Peak	40.1	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band I 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2351.25	45.92	-3.19	68.2	22.28	Peak	36.3	150	Horizontal	PASS
2	2997.34	48.54	-0.74	68.2	19.66	Peak	99.8	150	Horizontal	PASS
3	5190.38	100.96	9.68	68.2	-32.76	Peak	62.6	150	Horizontal	N/A
4	7034.97	42.60	12.92	68.2	25.60	Peak	104	150	Horizontal	PASS
5	8581.25	42.36	14.93	68.2	25.84	Peak	145.5	150	Horizontal	PASS
6	10135.00	44.34	16.89	68.2	23.86	Peak	17.2	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band I 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2296.41	43.55	-3.03	68.2	24.65	Peak	89.6	150	Vertical	PASS
2	4973.94	46.71	9.47	68.2	21.49	Peak	342.5	150	Vertical	PASS
3	5230.72	90.23	9.90	68.2	-22.03	Peak	91.1	150	Vertical	N/A
4	7012.75	43.04	12.92	68.2	25.16	Peak	79.7	150	Vertical	PASS
5	8630.75	42.39	13.98	68.2	25.81	Peak	19.9	150	Vertical	PASS
6	11886.75	43.90	15.81	68.2	24.30	Peak	328.5	150	Vertical	PASS

1 GHz to 18 GHz, ANT V Band I 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2351.38	44.94	-3.25	68.2	23.26	Peak	184.1	150	Horizontal	PASS
2	2995.29	47.99	-0.69	68.2	20.21	Peak	345.1	150	Horizontal	PASS
3	5230.12	100.81	9.77	68.2	-32.61	Peak	133.5	150	Horizontal	N/A
4	7030.89	43.31	12.96	68.2	24.89	Peak	283.8	150	Horizontal	PASS
5	8595.00	39.83	13.84	68.2	28.37	Peak	184.8	150	Horizontal	PASS
6	11611.75	43.70	17.08	68.2	24.50	Peak	188.6	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1010.14	39.90	-7.69	68.2	28.30	Peak	42.8	150	Vertical	PASS
2	2444.00	40.19	-3.15	68.2	28.01	Peak	18.2	150	Vertical	PASS
3	2538.50	42.67	-0.65	68.2	25.53	Peak	244.1	150	Vertical	PASS
4	5745.78	88.90	9.71	68.2	-20.70	Peak	116.5	150	Vertical	N/A
5	15191.19	52.85	20.93	68.2	15.35	Peak	52.5	150	Vertical	PASS
6	17808.51	59.11	28.41	68.2	19.09	Peak	188.2	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band IV 802.11a Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2299.05	42.22	-3.08	68.2	25.98	Peak	168.4	150	Horizontal	PASS
2	4941.78	44.94	9.38	68.2	23.26	Peak	179.5	150	Horizontal	PASS
3	5745.25	101.92	10.39	68.2	-33.72	Peak	47.7	150	Horizontal	N/A
4	7027.47	42.41	12.92	68.2	25.79	Peak	141.4	150	Horizontal	PASS
5	13652.25	47.99	17.60	68.2	20.21	Peak	308.2	150	Horizontal	PASS
6	17590.25	50.46	24.81	68.2	17.74	Peak	283.6	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11a Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1009.89	39.00	-7.83	68.2	29.20	Peak	13.2	150	Vertical	PASS
2	1873.50	41.20	-3.06	68.2	27.00	Peak	329.3	150	Vertical	PASS
3	2946.00	42.84	-2.46	68.2	25.36	Peak	301.6	150	Vertical	PASS
4	5785.49	90.22	9.88	68.2	-22.02	Peak	105.9	150	Vertical	N/A
5	15191.21	52.96	20.81	68.2	15.24	Peak	128.3	150	Vertical	PASS
6	17801.06	59.48	28.42	68.2	18.72	Peak	85	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band IV 802.11a Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2299.04	43.73	-3.08	68.2	24.47	Peak	346.9	150	Horizontal	PASS
2	4941.25	46.81	9.32	68.2	21.39	Peak	96.9	150	Horizontal	PASS
3	5785.46	101.98	10.21	68.2	-33.78	Peak	223.6	150	Horizontal	N/A
4	7025.55	42.08	12.66	68.2	26.12	Peak	15.6	150	Horizontal	PASS
5	9763.75	41.72	16.41	68.2	26.48	Peak	228	150	Horizontal	PASS
6	10327.50	44.87	17.87	68.2	23.33	Peak	351.7	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1009.32	38.99	-7.75	68.2	29.21	Peak	170.3	150	Vertical	PASS
2	2227.50	41.95	-4.71	68.2	26.25	Peak	318.3	150	Vertical	PASS
3	2511.50	41.53	-0.90	68.2	26.67	Peak	212.9	150	Vertical	PASS
4	5825.30	89.69	9.90	68.2	-21.49	Peak	271.6	150	Vertical	N/A
5	15182.40	53.11	21.06	68.2	25.09	Peak	123.9	150	Vertical	PASS
6	17806.31	59.54	28.41	68.2	18.66	Peak	220.7	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band IV 802.11a High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2299.70	42.36	-3.03	68.2	25.84	Peak	223.8	150	Horizontal	PASS
2	4939.58	46.19	9.56	68.2	22.02	Peak	94.9	150	Horizontal	PASS
3	5825.43	100.70	10.39	68.2	-32.50	Peak	306.5	150	Horizontal	N/A
4	7016.95	42.30	12.96	68.2	25.90	Peak	141.5	150	Horizontal	PASS
5	8603.25	43.42	14.48	68.2	24.78	Peak	24.5	150	Horizontal	PASS
6	11103.00	43.33	16.09	68.2	24.87	Peak	243.8	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1009.26	40.36	-7.75	68.2	27.84	Peak	257.6	150	Vertical	PASS
2	1916.50	39.92	-3.20	68.2	28.28	Peak	27.8	150	Vertical	PASS
3	2485.50	40.78	-1.57	68.2	27.42	Peak	163.5	150	Vertical	PASS
4	5745.57	90.22	9.77	68.2	-22.02	Peak	59.8	150	Vertical	N/A
5	15182.65	52.57	20.81	68.2	15.63	Peak	214.1	150	Vertical	PASS
6	17795.66	60.34	28.42	68.2	17.86	Peak	263	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band IV 802.11n20 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2298.37	42.99	-3.03	68.2	25.21	Peak	286.5	150	Horizontal	PASS
2	4944.75	46.20	9.30	68.2	22.00	Peak	320.6	150	Horizontal	PASS
3	5745.26	101.88	10.39	68.2	-33.68	Peak	76.5	150	Horizontal	N/A
4	7021.29	43.21	12.96	68.2	24.99	Peak	295.7	150	Horizontal	PASS
5	14034.50	44.63	17.10	68.2	23.57	Peak	344.8	150	Horizontal	PASS
6	16124.50	50.22	21.43	68.2	17.98	Peak	47.2	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1011.66	38.77	-7.83	68.2	29.43	Peak	93.7	150	Vertical	PASS
2	2285.50	40.58	-3.11	68.2	27.62	Peak	359	150	Vertical	PASS
3	2771.00	43.02	-2.76	68.2	25.18	Peak	85.2	150	Vertical	PASS
4	5785.22	89.02	9.88	68.2	-20.82	Peak	140.6	150	Vertical	N/A
5	15179.72	53.86	20.87	68.2	24.34	Peak	203.7	150	Vertical	PASS
6	17803.14	58.82	28.41	68.2	19.38	Peak	53.9	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band IV 802.11n20 Middle Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2301.68	43.53	-3.03	68.2	24.67	Peak	149.6	150	Horizontal	PASS
2	4941.40	46.45	9.56	68.2	21.75	Peak	242.1	150	Horizontal	PASS
3	5785.85	101.35	10.35	68.2	-33.15	Peak	255.3	150	Horizontal	N/A
4	7018.03	42.00	12.92	68.2	26.20	Peak	325.5	150	Horizontal	PASS
5	9810.50	40.64	14.54	68.2	27.56	Peak	105.5	150	Horizontal	PASS
6	10913.25	45.39	16.22	68.2	22.81	Peak	63.1	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1009.18	38.65	-7.80	68.2	29.55	Peak	7.7	150	Vertical	PASS
2	2234.00	39.43	-5.65	68.2	28.77	Peak	17.6	150	Vertical	PASS
3	2529.50	41.60	-0.88	68.2	26.60	Peak	122.4	150	Vertical	PASS
4	5825.93	90.68	9.77	68.2	-22.48	Peak	275.6	150	Vertical	N/A
5	15182.41	54.04	20.81	68.2	24.16	Peak	7	150	Vertical	PASS
6	17808.56	60.04	28.41	68.2	18.16	Peak	240.3	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band IV 802.11n20 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2298.49	41.84	-3.02	68.2	26.36	Peak	320.7	150	Horizontal	PASS
2	4942.78	45.40	9.37	68.2	22.80	Peak	44.4	150	Horizontal	PASS
3	5825.13	102.43	10.35	68.2	-34.23	Peak	79.1	150	Horizontal	N/A
4	7017.67	41.80	12.81	68.2	26.40	Peak	336	150	Horizontal	PASS
5	9931.50	42.20	15.84	68.2	26.00	Peak	287.3	150	Horizontal	PASS
6	10979.25	45.25	16.27	68.2	22.95	Peak	282.4	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1007.97	40.13	-7.74	68.2	28.07	Peak	296	150	Vertical	PASS
2	1349.50	38.35	-6.48	68.2	29.85	Peak	128.9	150	Vertical	PASS
3	1887.50	38.34	-6.01	68.2	29.86	Peak	312.2	150	Vertical	PASS
4	5755.82	90.32	9.82	68.2	-22.12	Peak	185.6	150	Vertical	N/A
5	15182.18	52.75	20.81	68.2	15.45	Peak	12.9	150	Vertical	PASS
6	17803.66	60.09	28.43	68.2	18.11	Peak	124	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band IV 802.11n40 Low Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2298.50	43.71	-3.03	68.2	24.49	Peak	69.2	150	Horizontal	PASS
2	4948.03	44.84	9.32	68.2	23.36	Peak	1.6	150	Horizontal	PASS
3	5775.67	101.04	10.39	68.2	-32.84	Peak	286.1	150	Horizontal	N/A
4	7014.99	42.01	12.96	68.2	26.19	Peak	145.9	150	Horizontal	PASS
5	9634.50	44.29	16.00	68.2	23.91	Peak	315	150	Horizontal	PASS
6	11950.00	43.72	16.44	68.2	24.48	Peak	181.6	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	1008.63	39.06	-7.83	68.2	29.14	Peak	85.8	150	Vertical	PASS
2	1408.00	37.40	-6.76	68.2	30.80	Peak	301.6	150	Vertical	PASS
3	1671.50	37.18	-6.16	68.2	31.02	Peak	142.3	150	Vertical	PASS
4	5795.67	90.69	9.71	68.2	-22.49	Peak	233.4	150	Vertical	N/A
5	15182.15	52.50	20.87	68.2	15.70	Peak	81	150	Vertical	PASS
6	17800.23	58.42	28.38	68.2	19.78	Peak	143.3	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band IV 802.11n40 High Channel

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2299.67	43.69	-3.08	68.2	24.51	Peak	178.2	150	Horizontal	PASS
2	4943.44	46.45	9.42	68.2	21.75	Peak	270.9	150	Horizontal	PASS
3	5795.71	102.54	10.28	68.2	-34.34	Peak	351	150	Horizontal	N/A
4	7026.08	43.38	12.92	68.2	24.82	Peak	57.5	150	Horizontal	PASS
5	8861.75	41.69	14.60	68.2	26.51	Peak	219.6	150	Horizontal	PASS
6	10132.25	44.49	16.97	68.2	23.71	Peak	40.2	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band I 802.11ac ch42

N o.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2491.82	50.23	-3.44	68.2	17.97	Peak	160.7	150	Vertical	PASS
2	4989.05	51.15	9.30	68.2	17.05	Peak	18.3	150	Vertical	PASS
3	5210.45	93.63	9.82	68.2	-35.43	Peak	111.4	150	Vertical	N/A
4	7031.64	43.56	12.91	68.2	24.64	Peak	175.5	150	Vertical	PASS
5	13231.50	49.43	18.72	68.2	18.77	Peak	337.9	150	Vertical	PASS
6	15296.75	50.87	25.51	68.2	17.33	Peak	30.6	150	Vertical	PASS

1 GHz to 18 GHz, ANT H Band I 802.11ac ch42

N o.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2492.08	55.80	-3.29	68.2	12.40	Peak	149.8	150	Horizontal	PASS
2	5001.54	52.40	9.22	68.2	15.80	Peak	218.2	150	Horizontal	PASS
3	5210.29	95.01	9.77	68.2	-36.81	Peak	311	150	Horizontal	N/A
4	7026.94	44.26	12.92	68.2	23.94	Peak	344.3	150	Horizontal	PASS
5	14383.75	45.18	21.07	68.2	23.02	Peak	278.5	150	Horizontal	PASS
6	16523.25	52.89	21.93	68.2	15.31	Peak	267.1	150	Horizontal	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11ac ch157

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2491.79	50.82	-3.45	68.2	17.38	Peak	349.4	150	Vertical	PASS
2	4988.94	51.35	9.45	68.2	16.85	Peak	149.3	150	Vertical	PASS
3	5775.17	94.11	10.08	68.2	-27.91	Peak	316.6	150	Vertical	N/A
4	7022.49	43.45	12.66	68.2	24.75	Peak	351.3	150	Vertical	PASS
5	8575.75	41.83	16.56	68.2	26.37	Peak	208.5	150	Vertical	PASS
6	10085.50	44.56	14.88	68.2	23.64	Peak	217.6	150	Vertical	PASS

1 GHz to 18 GHz, ANT V Band IV 802.11ac ch157

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2491.51	56.50	-3.41	68.2	11.70	Peak	59	150	Horizontal	PASS
2	4984.53	49.87	9.59	68.2	18.33	Peak	239.1	150	Horizontal	PASS
3	5775.62	96.43	10.67	68.2	-31.23	Peak	48.8	150	Horizontal	N/A
4	7004.96	43.16	12.75	68.2	25.04	Peak	330.3	150	Horizontal	PASS
5	8597.75	43.36	14.06	68.2	24.84	Peak	270.3	150	Horizontal	PASS
6	10671.25	42.18	15.97	68.2	26.02	Peak	80	150	Horizontal	PASS

A.8 Frequency Stability

Measurement Data (the worst channel)

Note: Frequency Stability result reference from original test report: BL-SZ1660028-604 (issued by Shenzhen BALUN Technology Co., Ltd. On Jul, 22. 2016) A.8 Frequency Stability.

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ1740297-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL- SZ1740297-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL- SZ1740297-AI.PDF”.

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