# EMC TEST REPORT

ISSUED BY Shenzhen BALUN Technology Co., Ltd.

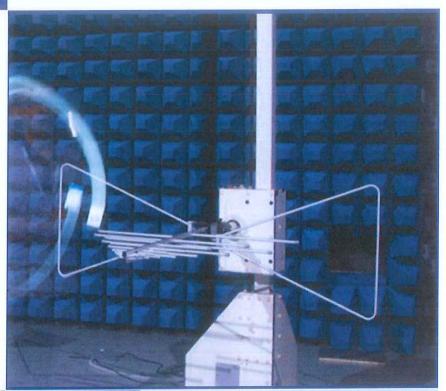


FOR

# CDMA/LTE 4G Mobile Phone

ISSUED TO Hoperun mMax Digital Inc.

4790 Irvine Blvd., Ste. 105-431 Irvine, CA 92620



Tested by:

Xia Long
Xia Long
(Engineer)
Date
Sp. 18.2017

Approved by:

Well Yanquan
(Chief Engineer)
Date

Date

The standard of the standar

Report No.: EUT Name: Model Name: Brand Name: Test Standard:

FCC ID:

BL-EC1780083-401 CDMA/LTE 4G Mobile Phone

S502

Jabr box

47 CFR Part 15 Subpart B

2AKQN-S502

Test Conclusion:

Pass

Test Date:

Sep. 11, 2017 ~ Sep. 14, 2017

Date of Issue: Sep. 18, 2017

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# **Revision History**

Version Rev. 01

Issue Date Sep. 18, 2017 **Revisions Content** 

Initial Issue

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## 1 GENERAL INFORMATION

# 1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co.,Ltd.	
Addross	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,	
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China	
Phone Number	+86 755 6685 0100	
Fax Number	+86 755 6182 4271	

# 1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co.,Ltd.
Addroso	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road,
Address	Nanshan District, Shenzhen, Guangdong Province, P. R. China
	The laboratory has been listed by Industry Canada to perform
	electromagnetic emission measurements. The recognition numbers of
	test site are 11524A-1.
	The laboratory is a testing organizatin accredited by FCC as a
	accredited testing laboratory. The designation number is CN1196.
Accreditation Certificate	The laboratory is a testing organization accredited by American
	Association for Laboratory Accreditation(A2LA) according to ISO/IEC
	17025.The accreditation certificate is 4344.01.
	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.
	All measurement facilities used to collect the measurement data are
Description	located at Block B, FL 1, Baisha Science and Technology Park, Shahe
Description	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 refer to the BALUN report mode v6.5.
- (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 Information

Applicant	Hoperun mMax Digital Inc.
Address	4790 Irvine Blvd., Ste. 105-431 Irvine, CA 92620

# 2.2 Manufacturer Information

Manufacturer	Hoperun mMax Digital Inc.
Address	4790 Irvine Blvd., Ste. 105-431 Irvine, CA 92620

# 2.3 Factory Information

Factory	Hoperun mMax Digital Inc.
Address	4790 Irvine Blvd., Ste. 105-431 Irvine, CA 92620

# 2.4 General Description for Equipment under Test (EUT)

EUT Name	CDMA/LTE 4G Mobile Phone	
Model Name Under Test	S502	
Series Model Name	N/A	
Description of Model	N/A	
name differentiation	N/A	
Hardware Version	S502_MAIN_V1.2	
Software Version	LLDJ902.1.0_M200	
Dimensions (Approx.)	N/A	
Weight (Approx.)	N/A	
	3G Network CDMA2000 BC 0/1/10	
Network and Wireless	1XEVDO BC 0/1/10	
	4G Network FDD LTE Band 2/4/5/12/13/25/26	
connectivity	TDD LTE Band 41	
	Bluetooth, WIFI, GPS	



# 2.5 Ancillary Equipment

	Battery		
	Brand Name	Jabr box	
	Model No.	LCL2000A	
Ancillary Equipment 1	Serial No.	N/A	
	Capacitance	2300 mAh	
	Rated Voltage	3.8 V	
	Limit Charge Voltage	4.2±0.03 V	
Ancillary Equipment 2	Adapter		
	Brand Name	Jabr box	
	Model No.	RC051057	
	Serial No.	N/A	
	Rated Input	100-240 V~, 0.2 A, 50/60 Hz	
	Rated Output	5 V= 1 A	
Ancillary Equipment 3	USB Cable		
Anomary Equipment 3	Length (Approx.)	1.0 m	

# 2.6 Technical Information

Note: Not applicable.



# 3 SUMMARY OF TEST RESULTS

# 3.1 Test Standards

No.	Identity	Document Title	
1	FCC 47 CFR Part 15	Unintentional Padiators	
I	Subpart B (10-1-16 Edition)	Unintentional Radiators	
	ANSI C63.4-2014	American National Standard for Methods of	
0		Measurement of Radio-Noise Emissions from Low-	
2		Voltage Electrical and Electronic Equipment in the	
		Range of 9 kHz to 40 GHz	

# 3.2 Verdict

No.	Description	FCC Rule	Test Verdict	Result
1	Radiated Emission	15.109	Pass	Annex A .1
2	Conducted Emission, AC Ports	15.107	Pass	Annex A .2

# 3.3 Test 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
Conducted emissions (9 kHz-30 MHz)	3.23 dB
Radiated emissions (30 MHz-1 GHz)	4.30 dB
Radiated emissions (1 GHz-18 GHz)	4.81 dB
Radiated emissions (18 GHz-40 GHz)	5.71 dB



# **4 GENERAL TEST CONFIGURATIONS**

# **4.1 Test Environments**

Environment	Selected Values During Tests			
Parameter	Temperature	Voltage	Relative Humidity	Ambient Pressure
Normal Temperature, Normal Voltage (NTNV)	23°C~26°C	AC 120 V/60 Hz or DC 3.8 V from Battery or DC 5 V from Laptop	50%-55%	100 to 102 kPa

# 4.2 Test Equipment List

	Radiated Emission Test For Frequency Below 1 GHz					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWA RZ	ESRP	101036	2017.06.22	2018.06.21	$\boxtimes$
Test Antenna- Bi-Log	SCHWARZBECK	VULB 9163	9163-977	2016.07.19	2018.07.18	$\boxtimes$
Test Antenna- Horn	SCHWARZBECK	BBHA 9120D	9120D-1600	2016.07.12	2018.07.11	
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	N/A	2016.08.09	2018.08.08	$\boxtimes$

	Radiated Emission Test For Frequency Above 1 GHz					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	KEYSIGHT	N9038A	MY53220118	2017.09.08	2018.09.07	$\boxtimes$
Test Antenna- Bi-Log	SCHWARZBECK	VULB 9163	9163-624	2016.07.21	2018.07.20	
Test Antenna- Horn	SCHWARZBECK	BBHA 9120D	9120D-1148	2016.07.21	2018.07.20	$\boxtimes$
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2017.02.21	2019.02.20	$\boxtimes$

	Conducted Emission Test					
Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Use
EMI Receiver	ROHDE&SCHWA RZ	ESRP	101036	2017.06.22	2018.06.21	$\boxtimes$
LISN	SCHWARZBECK	NSLK 8127	8127-687	2017.06.22	2018.06.21	$\boxtimes$
LISN	SCHWARZBECK	NNLK 8129	8129-462	2016.09.14	2017.09.13	
AMN	SCHWARZBECK	NNBM8124	8124-509	2017.06.22	2018.06.21	
AMN	SCHWARZBECK	NNBM8124	8124-510	2017.06.22	2018.06.21	
ISN	TESEQ	ISN T800	34449	2017.06.22	2018.06.21	
Shielded Enclosure	ChangNing	CN-130701	130703	N/A	N/A	$\boxtimes$



# 4.3 Test Enclosure list

Description	Manufacturer	Model	Serial No.	Length	Description	Use
PC	Dell	015K3N	N/A	N/A	Special Handled	
Laptop	Apple	A1465	N/A	N/A	N/A	$\boxtimes$
Printer	HP	DESKJET 1000	N/A	N/A	N/A	
Keyboard	Logitech	Y-BP62a	N/A	N/A	N/A	
Mouse	Logitech	M100	N/A	N/A	N/A	
USB disk	Kingston	N/A	N/A	N/A	N/A	
TF Card	Kingston	N/A	N/A	N/A	N/A	$\boxtimes$
VGA Cable	N/A	N/A	N/A	1.5 m	Shielded with core	
HDMI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	
DVI Cable	N/A	N/A	N/A	1.5 m	Shielded with core	
Coaxial video cable	N/A	N/A	N/A	2.0 m	Shielded with core	
iPhone	Apple	A1586	N/A	N/A	N/A	
Phone	MI	M4	N/A	N/A	N/A	
Bluetooth Earphone	SAMSUNG	Gear Circle	N/A	N/A	N/A	$\boxtimes$
GPS/GLONAS S Vector signal generator	R&S	N5172B EXG	N/A	N/A	N/A	$\boxtimes$
WIFI Router	TP-LINK	TL-WDR7500	N/A	N/A	N/A	$\boxtimes$
Earphone	OPPO	N/A	N/A	1.1 m	N/A	$\boxtimes$
Car Battery	Camel	55530	N/A	N/A	12 V/55 Ah	
Artificial load	N/A	N/A	N/A	N/A	2.5 Ω/100 W	
Artificial load	N/A	N/A	N/A	N/A	5 Ω/100 W	
Electronic Load	ITECH	IT8511	N/A	N/A	N/A	
USB Cable	N/A	N/A	N/A	1.5 m	Shielded with core	
DC Power Supply	ITECH	IT6863A	60001401068 7210006	N/A	N/A	
LCD Monitor	SAMSUNG	UA32C4000P	N/A	N/A	N/A	
LCD Monitor	Dell	U241HB	N/A	N/A	N/A	
RJ45 Cable	N/A	N/A	N/A	1.5 m	Shielded with core	



# 4.4 Test Configurations

Traffic Test Mode  Traffic Test Mode  TC01	Test	
Traffic Test Mode  TCO1 The CDMA2000 BC 0 Test Mode CDMA2000 BC 0 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The CDMA2000 BC 1 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The CDMA2000 BC 1 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The CDMA2000 BC 10 Test Mode CDMA2000 BC 10 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The 1XEVDO BC 0 Test Mode TCO4 1XEVDO BC 0 Test Mode TCO4 1XEVDO BC 0 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The 1XEVDO BC 1 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The 1XEVDO BC 10 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 2 Test Mode TCO6 1XEVDO BC 10 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 4 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 4 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 12 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 12 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 12 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 13 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 13 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 13 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 13 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WiFI Link + GPS RX  The FDD LTE Band 25 Test Mode  FDD LTE Ban		Description
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TC02  CDMA2000 BC 1 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The CDMA2000 BC 10 Test Mode  CDMA2000 BC 10 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The 1XEVDO BC 0 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The 1XEVDO BC 1 Test Mode  TC05  TXEVDO BC 1 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The 1XEVDO BC 1 Test Mode  TC06  1XEVDO BC 10 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The 1XEVDO BC 10 Test Mode  TC07  The FDD LTE Band 2 Test Mode  FDD LTE Band 2 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 4 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 4 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 5 Test Mode  TC09  FDD LTE Band 5 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 12 Test Mode  TC10  FDD LTE Band 12 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 13 Test Mode  TC11  FDD LTE Band 13 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 13 Test Mode  TC11  FDD LTE Band 25 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 25 Test Mode  TC12  FDD LTE Band 25 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 25 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 25 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 25 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GP		The CDMA2000 BC 1 Test Mode
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TC12 FDD LTE Band 25 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link + GPS RX  The FDD LTE Band 26 Test Mode		
+ WIFI Link + GPS RX  The FDD LTE Band 26 Test Mode	TC12	
TC13 FDD LTE Band 26 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link		The FDD LTE Band 26 Test Mode
	TC13	FDD LTE Band 26 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link
+ WIFI Link + GPS RX		+ WIFI Link + GPS RX

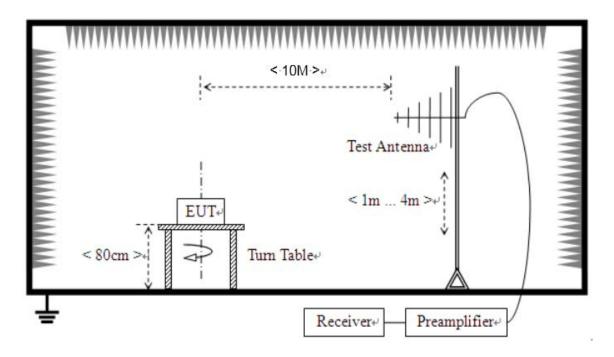


	The TDD LTE Band 41 Test Mode
TC14	TDD LTE Band 41 Link + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link
	+ WIFI Link + GPS RX
TC15	The Idle Test Mode
1015	CDMA BC 0 (Idle) + Adapter + USB Cable + Battery + Earphone + TF Card + GPS RX
Amusement Tes	st Mode
	The Video Record Test Mode
TC16	EUT + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link +
	GPS RX
	The Video Play Test Mode
TC17	EUT + Adapter + USB Cable + Battery + Earphone + TF Card + BT Link + WIFI Link +
	GPS RX
TC18	The USB Test Mode
1016	EUT + Laptop + USB Cable + Battery + Earphone + TF Card



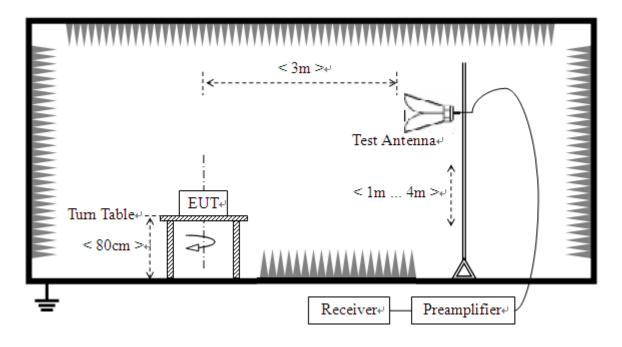
# 4.5 Test Setups

# Test Setup 1



(For Radiated Emission Test (30 MHz-1 GHz))

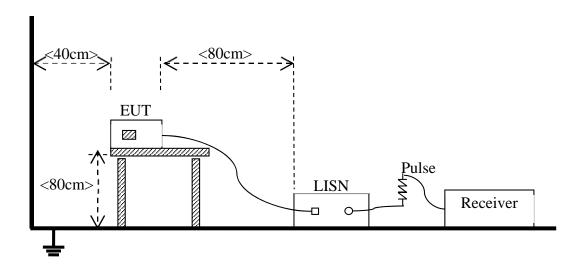
# Test Setup 2



(For Radiated Emission Test (above 1 GHz))



# Test Setup 3



(For Conducted Emission, AC Ports Test)



# 4.6 Test Conditions

Test Case	Test Conditions		
	Test Env.	NTNV	
Radiated Emission	Test Setup	Test Setup 1&2	
	Test Configuration	TC01~TC18 Note	
Conducted Emission AC	Test Env.	NTNV	
Conducted Emission, AC	Test Setup	Test Setup 3	
Ports	Test Configuration	TC01~TC18 Note	

Note: Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report. The Video Record Test Mode is the worst mode in this report.



## 5 TEST ITEMS

#### 5.1 Emission Tests

#### 5.1.1 Radiated Emission

#### 5.1.1.1 Limit

	Class B	(at 3 m)	Class B (at 10 m)	Class A	A (at 10 m)
Frequency range (MHz)	Field Strength (μV/m)	Field Strength (dBµV/m)	Field Strength (dBµV/m)	Field Strength (µV/m)	Field Strength (dBµV/m)
30 - 88	100	40	30	90	39
88 - 216	150	43.5	33.5	150	43.5
216 - 960	200	46	36	210	46.4
Above 960	500	54	44	300	49.5

#### NOTE:

- 1) Field Strength ( $dB\mu V/m$ ) = 20\*log [Field Strength ( $\mu V/m$ )].
- 2) In the emission tables above, the tighter limit applies at the band edges.

#### 5.1.1.2 Test Setup

Refer to 4.5 section (test setup 1 to test setup 2) for radiated emission test, the photo of test setup please refer to ANNEX B.

#### 5.1.1.3 Test Procedure

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.

An initial pre-scan was performed in the chamber using the EMI Receiver in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bi-Log antenna with 2 orthogonal polarities.

#### 5.1.1.4 Test Result

Please refer to ANNEX A.1.



#### 5.1.2 Conducted Emission

#### 5.1.2.1 Test Limit

	Cla	ass A
Frequency range (MHz)	Quasi-peak	Average
	(dBµV)	(dBµV)
0.15 - 0.50	79	66
0.50 - 30	73	60

	Cla	ass B
Frequency range (MHz)	Quasi-peak	Average
	(dBµV)	(dBµV)
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

#### NOTE:

- 1) The lower limit shall apply at the band edges.
- 2) The limit decreases linearly with the logarithm of the frequency in the range 0.15 0.50 MHz.

#### 5.1.2.2 Test Setup

Refer to 4.5 section test (test setup 3) for conducted emission, the photo of test setup please refer to ANNEX B.

# 5.1.2.3 Test Procedure

The EUT is connected to the power mains through a LISN which provides  $50 \Omega/50 \mu H$  of coupling impedance for the measuring instrument. The test frequency range is from 150 kHz to 30 MHz. The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels that are 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.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

#### 5.1.2.4 Test Result

Please refer to ANNEX A.2.



# ANNEX A TEST RESULTS

#### A.1 Radiated Emission

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

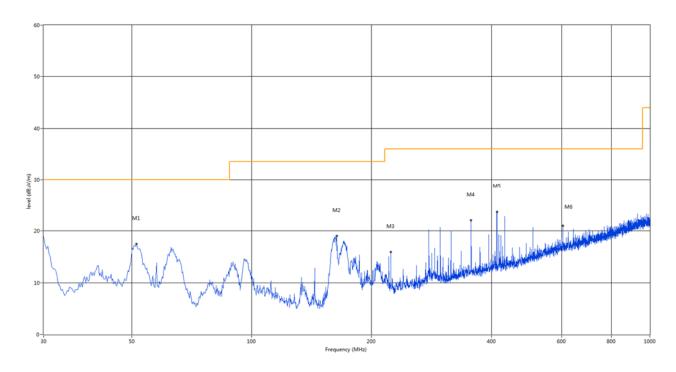
Note 2: For the test data above 1 GHz, according the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The marked spikes near 2400 MHz with circle should be ignored because they are Bluetooth or WIFI carrier frequency.

#### Test Data and Plots

#### The Video Record Test Mode

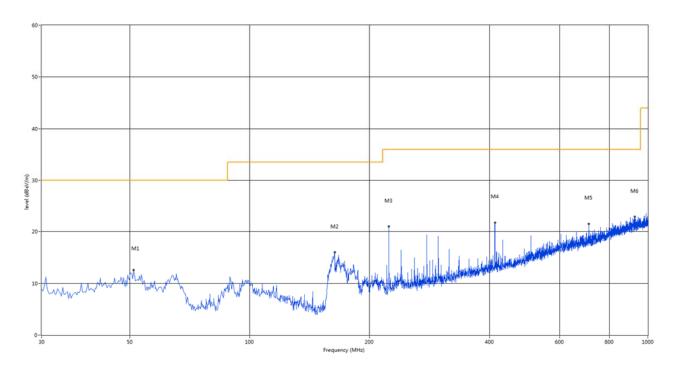
#### A.1.1 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	51.340	17.50	-19.23	30.0	12.50	Peak	87.00	100	Vertical	Pass
2	163.375	19.05	-23.75	33.5	14.45	Peak	282.80	100	Vertical	Pass
3	223.515	15.92	-20.67	36.0	20.08	Peak	161.70	200	Vertical	Pass
4	355.435	22.07	-17.10	36.0	13.93	Peak	360.00	200	Vertical	Pass
5	412.907	23.73	-15.89	36.0	12.27	Peak	339.50	100	Vertical	Pass
6	604.725	21.04	-11.68	36.0	14.96	Peak	35.00	100	Vertical	Pass



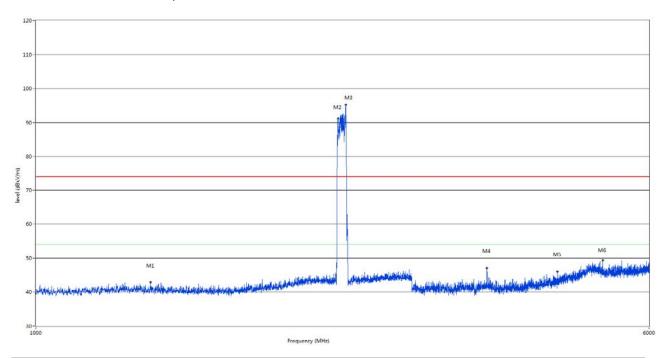
# A.1.2 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table (o)	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)			(cm)		
1	51.097	12.63	-19.23	30.0	17.37	Peak	1.30	300	Horizontal	Pass
2	163.375	15.99	-23.75	33.5	17.51	Peak	297.90	100	Horizontal	Pass
3	223.515	20.26	-20.67	36.0	15.74	Peak	95.30	100	Horizontal	Pass
4	412.907	21.78	-15.89	36.0	14.22	Peak	276.60	100	Horizontal	Pass
5	711.182	21.54	-9.88	36.0	14.46	Peak	245.90	100	Horizontal	Pass
6	926.280	22.87	-6.32	36.0	13.13	Peak	117.00	200	Horizontal	Pass



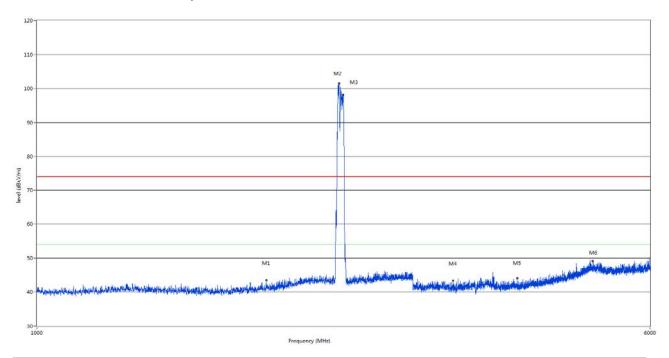
# A.1.3 Test Antenna Vertical, 1 GHz – 6 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1399.000	42.82	-5.50	74.0	31.18	Peak	26.40	100	Vertical	Pass
2	2418.000	91.14	-1.93	74.0	-17.14	Peak	304.90	100	Vertical	N/A
3	2473.000	95.24	-2.09	74.0	-21.24	Peak	299.30	100	Vertical	N/A
4	3736.500	47.07	8.64	74.0	26.93	Peak	54.30	100	Vertical	Pass
5	4589.250	46.04	10.65	74.0	27.96	Peak	96.30	100	Vertical	Pass
6	5239.500	49.34	12.77	74.0	24.66	Peak	84.40	100	Vertical	Pass



# A.1.4 Test Antenna Horizontal, 1 GHz – 6 GHz



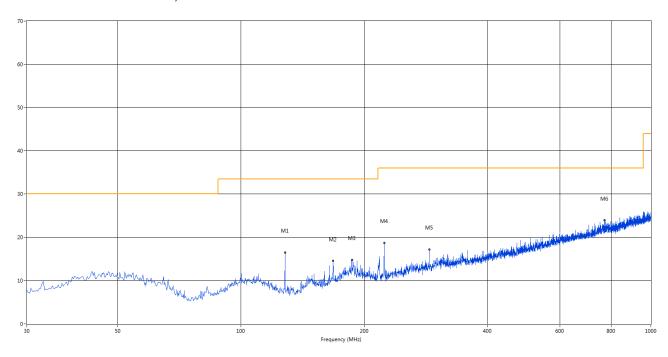
No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1954.500	43.50	-3.90	74.0	30.50	Peak	358.50	100	Horizontal	Pass
2	2418.000	101.51	-1.93	74.0	-27.51	Peak	355.70	100	Horizontal	N/A
3	2446.000	98.20	-2.08	74.0	-24.20	Peak	353.00	100	Horizontal	N/A
4	3375.750	43.35	6.69	74.0	30.65	Peak	2.70	100	Horizontal	Pass
5	4070.250	44.05	9.44	74.0	29.95	Peak	0.60	100	Horizontal	Pass
6	5076.000	49.17	13.05	74.0	24.83	Peak	43.00	100	Horizontal	Pass



# Test Data and Plots

# The USB Test Mode

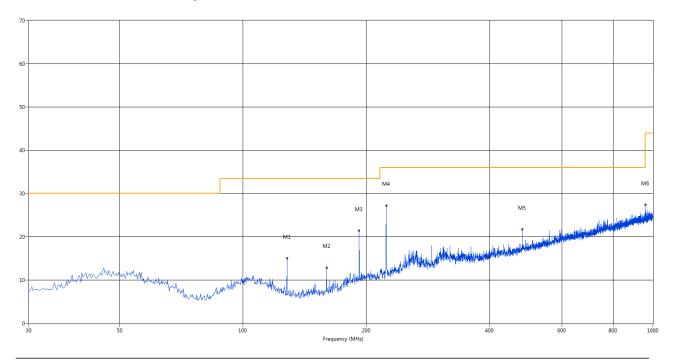
# A.1.5 Test Antenna Vertical, 30 MHz – 1 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	127.970	16.47	-18.25	33.5	17.03	Peak	190.00	100	Vertical	Pass
2	167.740	14.50	-17.60	33.5	19.00	Peak	2.00	200	Vertical	Pass
3	186.413	14.77	-16.26	33.5	18.73	Peak	4.00	100	Vertical	Pass
4	223.515	18.67	-14.47	36.0	17.33	Peak	5.00	100	Vertical	Pass
5	288.020	17.18	-12.52	36.0	18.82	Peak	5.00	100	Vertical	Pass
6	770.110	23.87	-2.62	36.0	12.13	Peak	1.00	200	Vertical	Pass



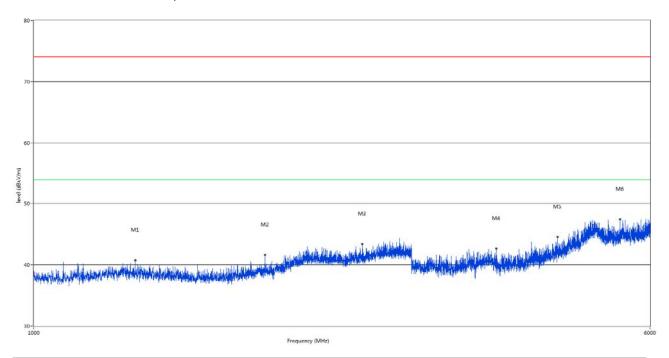
# A.1.6 Test Antenna Horizontal, 30 MHz – 1 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	127.970	15.04	-18.25	33.5	18.46	Peak	106.00	300	Horizontal	Pass
2	159.980	12.78	-17.98	33.5	20.72	Peak	106.00	300	Horizontal	Pass
3	191.990	21.42	-15.54	33.5	12.08	Peak	99.00	300	Horizontal	Pass
4	223.515	27.18	-14.47	36.0	8.82	Peak	253.00	300	Horizontal	Pass
5	480.080	21.64	-7.99	36.0	14.36	Peak	90.00	200	Horizontal	Pass
6	959.987	27.34	-0.31	36.0	8.66	Peak	202.00	100	Horizontal	Pass



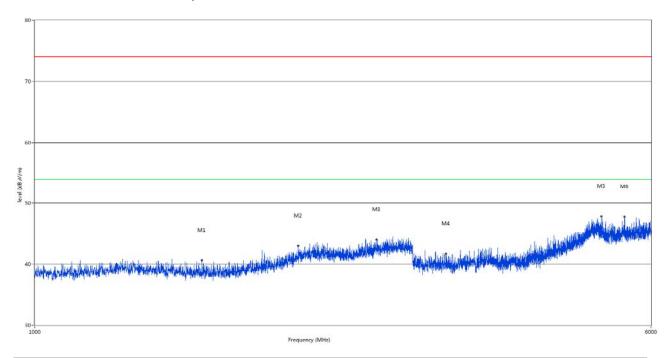
# A.1.7 Test Antenna Vertical, 1 GHz – 6 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1343.000	40.73	-5.55	74.0	33.27	Peak	37.10	100	Vertical	Pass
2	1958.500	41.63	-3.80	74.0	32.37	Peak	247.40	100	Vertical	Pass
3	2598.500	43.40	-0.91	74.0	30.60	Peak	70.40	100	Vertical	Pass
4	3836.250	42.67	8.71	74.0	31.33	Peak	234.20	100	Vertical	Pass
5	4584.000	44.58	10.53	74.0	29.42	Peak	234.20	100	Vertical	Pass
6	5496.000	47.42	12.40	74.0	26.58	Peak	359.70	100	Vertical	Pass



# A.1.8 Test Antenna Horizontal, 1 GHz – 6 GHz



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(0)	(cm)		
1	1625.000	40.60	-5.49	74.0	33.40	Peak	62.60	100	Horizontal	Pass
2	2151.000	43.01	-2.55	74.0	30.99	Peak	359.90	100	Horizontal	Pass
3	2700.500	44.02	-0.29	74.0	29.98	Peak	330.90	100	Horizontal	Pass
4	3304.500	41.69	6.62	74.0	32.31	Peak	172.80	100	Horizontal	Pass
5	5192.250	47.83	12.96	74.0	26.17	Peak	358.20	100	Horizontal	Pass
6	5552.250	47.80	12.90	74.0	26.20	Peak	54.00	100	Horizontal	Pass



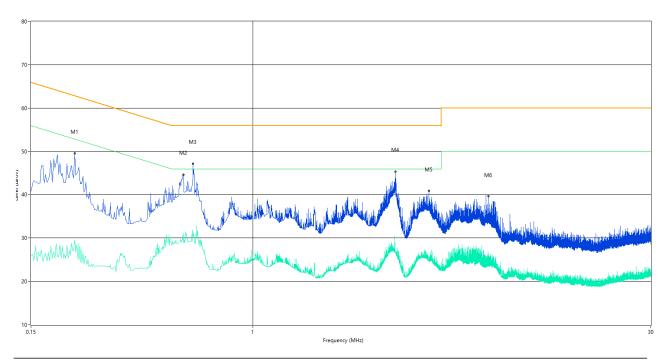
# A.2 Conducted Emission

Note: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 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

## The Video Record Test Mode

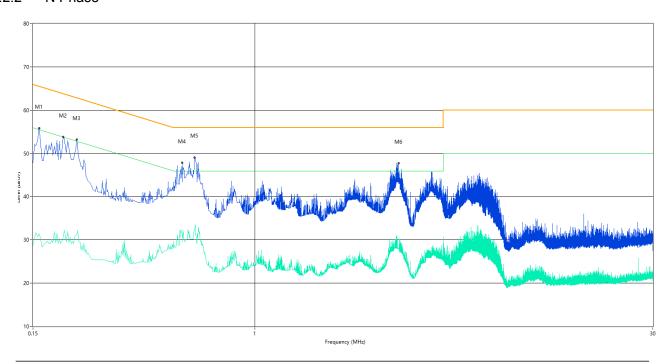
#### A.2.1 L Phase



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.218	49.6	11.34	62.9	13.30	Peak	L Line	Pass
1**	0.218	29.5	11.34	52.9	23.40	AV	L Line	Pass
2	0.552	44.7	9.28	56.0	11.30	Peak	L Line	Pass
2**	0.552	31.0	9.28	46.0	15.00	AV	L Line	Pass
3	0.600	47.2	10.53	56.0	8.80	Peak	L Line	Pass
3**	0.600	31.5	10.53	46.0	14.50	AV	L Line	Pass
4	3.384	45.4	10.32	56.0	10.60	Peak	L Line	Pass
4**	3.384	26.1	10.32	46.0	19.90	AV	L Line	Pass
5	4.508	40.8	10.17	56.0	15.20	Peak	L Line	Pass
5**	4.508	25.0	10.17	46.0	21.00	AV	L Line	Pass
6	7.476	39.6	10.24	60.0	20.40	Peak	L Line	Pass
6**	7.476	23.9	10.24	50.0	26.10	AV	L Line	Pass



# A.2.2 N Phase



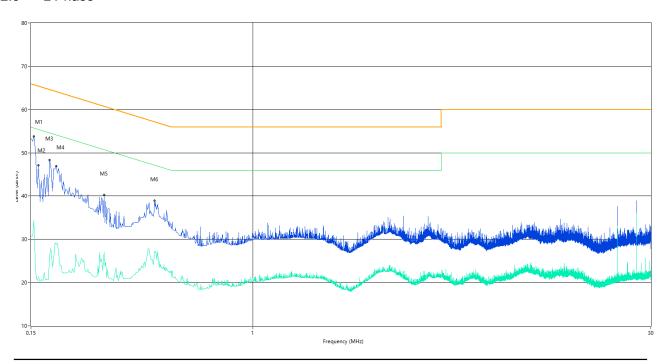
No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.158	55.9	10.41	65.6	9.70	Peak	N Line	Pass
1**	0.158	31.5	10.41	55.6	24.10	AV	N Line	Pass
2	0.194	53.8	9.43	63.9	10.10	Peak	N Line	Pass
2**	0.194	30.6	9.43	53.9	23.30	AV	N Line	Pass
3	0.218	53.2	11.34	62.9	9.70	Peak	N Line	Pass
3**	0.218	31.2	11.34	52.9	21.70	AV	N Line	Pass
4	0.536	47.9	9.34	56.0	8.10	Peak	N Line	Pass
4**	0.536	31.3	9.34	46.0	14.70	AV	N Line	Pass
5	0.596	49.1	10.21	56.0	6.90	Peak	N Line	Pass
5**	0.596	32.6	10.21	46.0	13.40	AV	N Line	Pass
6	3.416	47.8	10.54	56.0	8.20	Peak	N Line	Pass
6**	3.416	27.9	10.54	46.0	18.10	AV	N Line	Pass



# Test Data and Plots

# The USB Test Mode

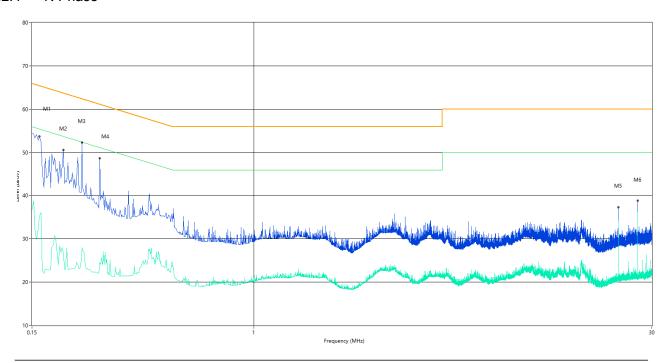
# A.2.3 L Phase



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.154	53.8	9.99	65.8	12.00	Peak	L Line	Pass
1**	0.154	34.4	9.99	55.8	21.40	AV	L Line	Pass
2	0.160	47.1	10.29	65.5	18.40	Peak	L Line	Pass
2**	0.160	21.4	10.29	55.5	34.10	AV	L Line	Pass
3	0.176	48.4	9.84	64.7	16.30	Peak	L Line	Pass
3**	0.176	26.1	9.84	54.7	28.60	AV	L Line	Pass
4	0.186	47.0	9.82	64.2	17.20	Peak	L Line	Pass
4**	0.186	28.8	9.82	54.2	25.40	AV	L Line	Pass
5	0.280	40.2	10.51	60.8	20.60	Peak	L Line	Pass
5**	0.280	27.0	10.51	50.8	23.80	AV	L Line	Pass
6	0.432	38.9	9.67	57.2	18.30	Peak	L Line	Pass
6**	0.432	27.2	9.67	47.2	20.00	AV	L Line	Pass



# A.2.4 N Phase



No.	Frequency	Results	Factor (dB)	Limit	Margin	Detector	Line	Verdict
	(MHz)	(dBuV)		(dBuV)	(dB)			
1	0.160	53.7	10.29	65.5	11.80	Peak	N Line	Pass
1**	0.160	35.2	10.29	55.5	20.30	AV	N Line	Pass
2	0.196	50.6	9.47	63.8	13.20	Peak	N Line	Pass
2**	0.196	26.7	9.47	53.8	27.10	AV	N Line	Pass
3	0.230	52.3	10.02	62.4	10.10	Peak	N Line	Pass
3**	0.230	28.0	10.02	52.4	24.40	AV	N Line	Pass
4	0.268	48.7	9.87	61.2	12.50	Peak	N Line	Pass
4**	0.268	24.5	9.87	51.2	26.70	AV	N Line	Pass
5	22.526	37.3	11.25	60.0	22.70	Peak	N Line	Pass
5**	22.526	34.2	11.25	50.0	15.80	AV	N Line	Pass
6	26.622	38.8	11.79	60.0	21.20	Peak	N Line	Pass
6**	26.622	36.2	11.79	50.0	13.80	AV	N Line	Pass



# ANNEX B TEST SETUP PHOTOS

Please refer the document "BL-EC1780083-AE.PDF".

# ANNEX C EUT EXTERNAL PHOTOS

Please refer the document "BL-EC1780083-AW.PDF".

# ANNEX D EUT INTERNAL PHOTOS

Please refer the document "BL-EC1780083-AI.PDF".

--END OF REPORT--