



FCC TEST REPORT

**Test report
On Behalf of
Shenzhen Bluebell Times Electronic & Technology Co., Ltd
For
Stereo Mini Speaker with Digital Clock
Model No.: BS-W002
FCC ID: 2BAB2-BSW002**

Prepared For : Shenzhen Bluebell Times Electronic & Technology Co., Ltd
B401, B402, No. 44-1, Xintang Road, Xintian Community, Fuhai Street, Bao'an District, Shenzhen, China

Prepared By : Shenzhen HUAK Testing Technology Co., Ltd.
1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Jan. 07, 2023 ~ Feb. 20, 2023

Date of Report: Feb. 20, 2023

Report Number: HK2302080242-2E

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Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



TEST RESULT CERTIFICATION

Applicant's name: Shenzhen Bluebell Times Electronic & Technology Co., Ltd

Address: B401, B402, No. 44-1, Xintang Road, Xintian Community, Fuhai Street, Bao'an District, Shenzhen, China

Manufacture's Name: Shenzhen Bluebell Times Electronic & Technology Co., Ltd

Address: B401, B402, No. 44-1, Xintang Road, Xintian Community, Fuhai Street, Bao'an District, Shenzhen, China

Product description

Trade Mark: N/A

Product name: Stereo Mini Speaker with Digital Clock

Model and/or type reference ..: BS-W002

Standards: FCC Rules and Regulations Part 15 Subpart C (Section 15.209), ANSI C63.10: 2013

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Date of Test:

Date (s) of performance of tests: Jan. 07, 2023 ~ Feb. 20, 2023

Date of Issue: Feb. 20, 2023

Test Result: Pass

Testing Engineer : 

(Gary Qian)

Technical Manager : 

(Eden Hu)

Authorized Signatory : 

(Jason Zhou)

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Feb. 20, 2023	Jason Zhou

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1. TEST SUMMARY

1.1. Test Procedures And Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
CONDUCTED EMISSIONS TEST	15.207	COMPLIANT
RADIATED EMISSION TEST	15.209	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT

Note:

1. *PASS: Test item meets the requirement.*
2. *Fail: Test item does not meet the requirement.*
3. *N/A: Test case does not apply to the test object.*
4. *The test result judgment is decided by the limit of test standard.*

1.2. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization :

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty	= 2.71dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	= 3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	= 4.28dB, k=2



2. GENERAL INFORMATION

2.1. General Description of EUT

Equipment:	Stereo Mini Speaker with Digital Clock
Model Name:	BS-W002
Series Models:	N/A
Model Difference:	N/A
Trade Mark:	N/A
FCC ID:	2BAB2-BSW002
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation frequency:	111.5KHz~205KHz
Test frequency:	127KHz
Number of Channels:	1
Modulation Type:	ASK
Power Source:	Input: DC5V 2A Wireless Output: 15W
Power Rating:	Input: DC5V 2A Wireless Output: 15W

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2.2. Carrier Frequency of Channels

Operation Frequency each of channel	
Channel	Frequency
1	127KHz

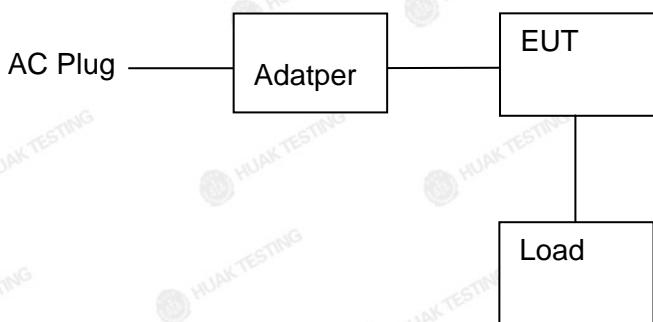
2.3. Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

2.4. Description of Test Setup

Operation of EUT during testing:



Adapter information

Model: BD-F1

Input: AC100-240V~50/60Hz, 1.5A

USB-C Output: (65W PD) DC5V 3A or 9V 3A or 12V 3A or 15V 3A or 20V 3.25A MAX

USB-A Output: DC 5V 2.4A

The sample was placed (0.8m (30MHz~1GHz), 0.8m (9KHz~30MHz)) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



2.5. Measurement Instruments List

2022 Equipment calibration list

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 18, 2022	1 Year
2.	Receiver	R&S	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 18, 2022	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 18, 2022	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 18, 2022	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Feb. 18, 2022	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 18, 2022	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 18, 2022	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 18, 2022	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 18, 2022	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 18, 2022	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 18, 2022	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 18, 2022	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 18, 2022	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 18, 2022	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 17, 2020	3 Year

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2023 Equipment calibration list

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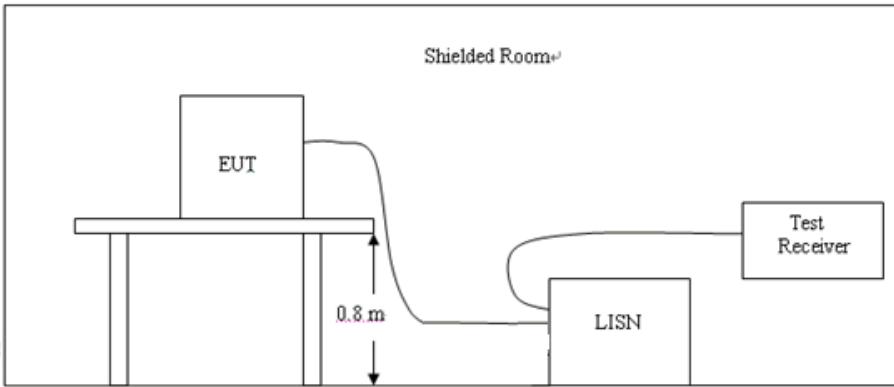
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3. CONDUCTED EMISSION TEST

3.1. Block Diagram of Test Setup



3.2. Conducted Power Line Emission Limit

According to FCC Part 15.207(a)

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207 Line Conducted Emission Limit is same as above table.

3.3. Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

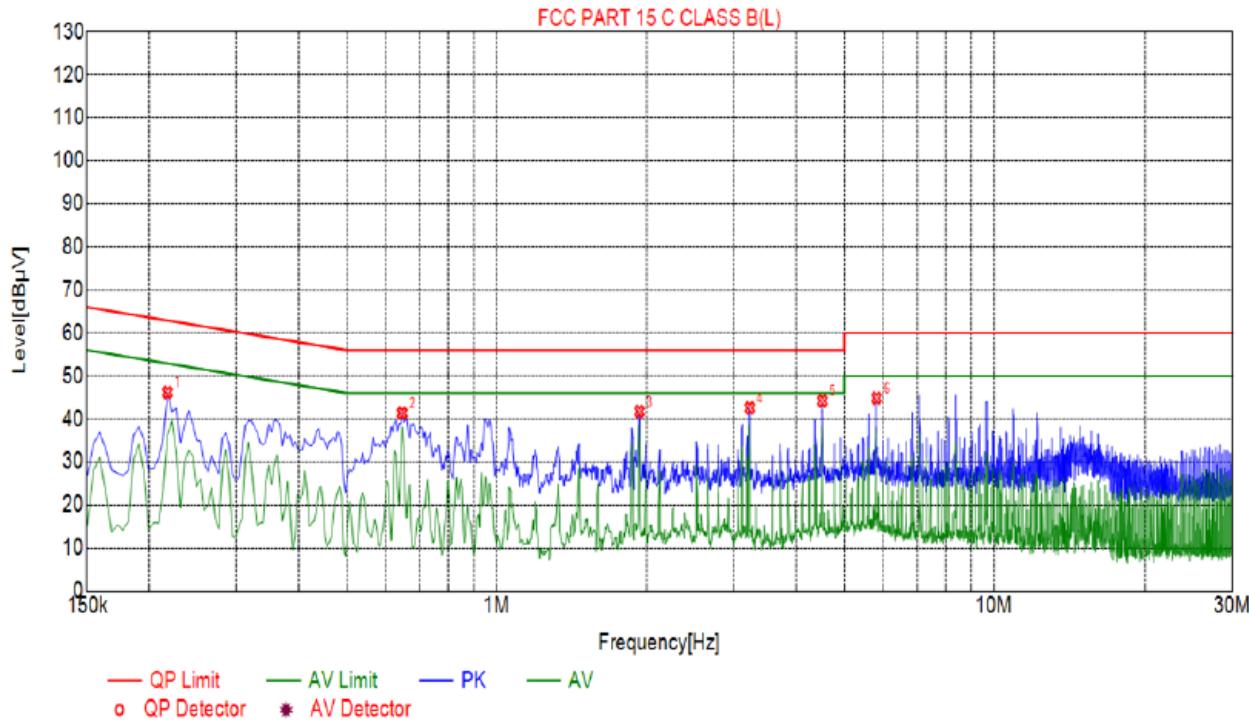


3.4. Test Result

PASS

All the test modes completed for test. only the worst result
was reported as below:

Test Specification: Line



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2175	46.17	20.05	62.91	16.74	29.12	PK	L
2	0.6450	41.37	20.05	56.00	14.63	24.32	PK	L
3	1.9365	41.76	20.14	56.00	14.24	24.62	PK	L
4	3.2280	42.59	20.23	56.00	13.41	25.36	PK	L
5	4.5195	44.20	20.25	56.00	11.80	26.95	PK	L
6	5.8110	44.84	20.24	60.00	15.16	25.60	PK	L

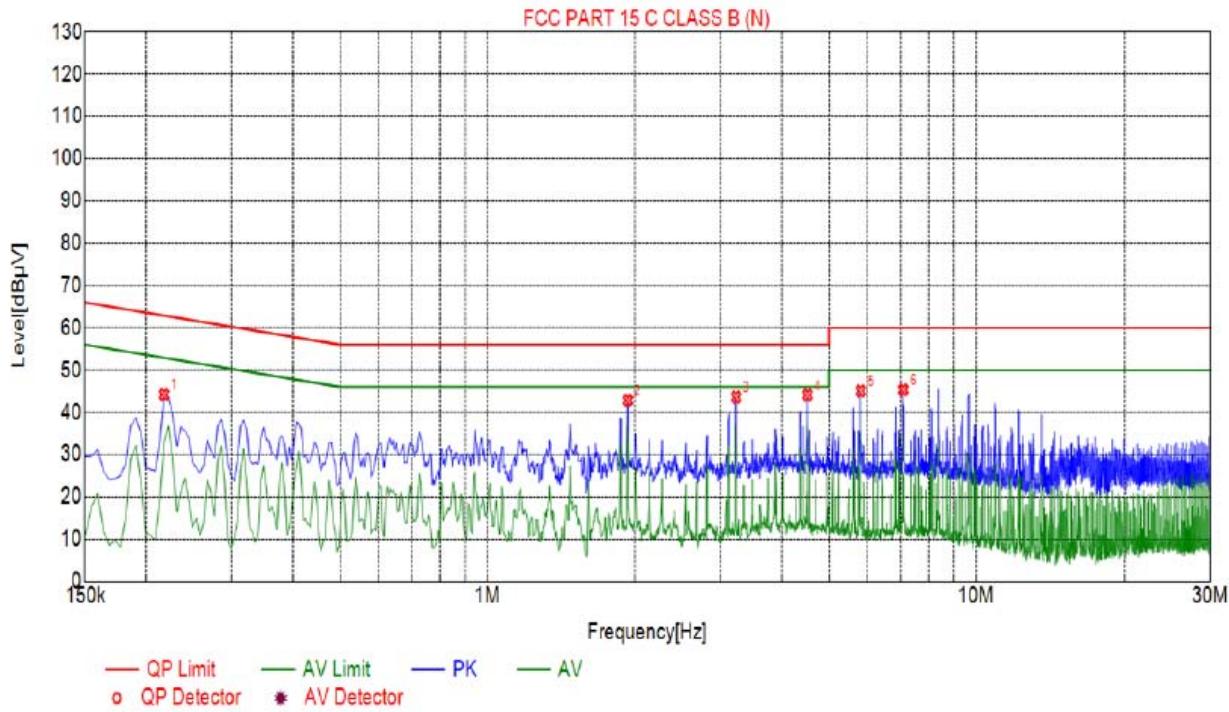
Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



Test Specification: Neutral



Suspected List

NO.	Freq. [MHz]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Reading [dBμV]	Detector	Type
1	0.2175	44.21	20.05	62.91	18.70	24.16	PK	N
2	1.9365	42.85	20.14	56.00	13.15	25.71	PK	N
3	3.2280	43.64	20.23	56.00	12.36	26.41	PK	N
4	4.5195	44.09	20.25	56.00	11.91	26.84	PK	N
5	5.8110	45.07	20.24	60.00	14.93	27.83	PK	N
6	7.1025	45.34	20.19	60.00	14.66	28.15	PK	N

Remark: Margin = Limit - Level

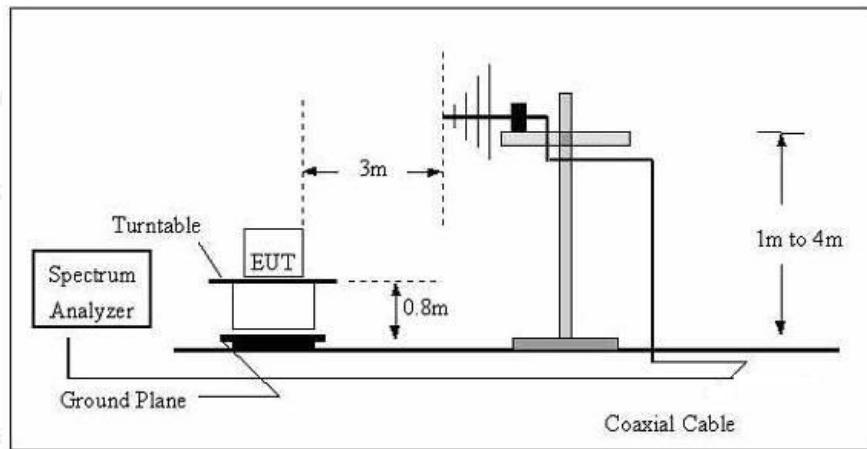
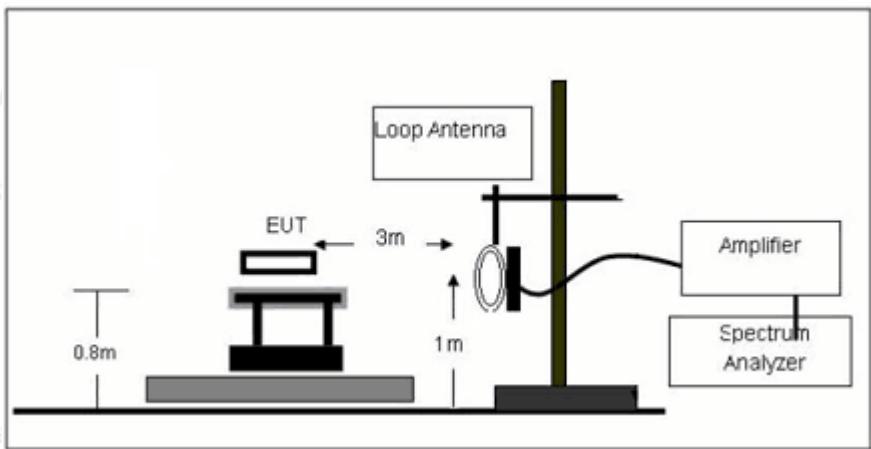
Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor



4. RADIATED EMISSIONS

4.1. Block Diagram of Test Setup



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4.2. Rules and specifications

CFR 47 Part 15, section 15.205

Only spurious emissions are permitted in any of the frequency bands listed the tables in these sections.

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(12)
13.36-13.41			

CFR 47 Part 15, section 15.209

The emissions from an intentional radiator shall not exceed the limits in the tables in these sections using an average detector.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
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

Limit calculation and transfer to 3m distance as showed in the following table:

Frequency (MHz)	Limit (dBuV/m)	Distance (m)
0.009-0.490	20log(2400/F(KHz))+40log(300/3)	3
0.490-1.705	20log(24000/F(KHz))+40log(30/3)	3
1.705-30.0	69.5	3
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

CFR 47 Part 15, section 15.35

When average radiated emission measurements are specified, the limit on the peak level of the radio Frequency emission is 20dB above the maximum permitted average emission limit.

Transmitter Spurious Emissions 9KHz-30MHz			
	9-150KHz	150-490KHz	490KHz-30MHz
Resolution Bandwidth	200Hz	9KHz	9KHz
Video Bandwidth	600Hz	30KHz	30KHz
Detector	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto

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4.3. Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurement are extrapolated to 300m and 30m distance respectively, by 40dB/decade, According to part 15.31(f)(2), per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

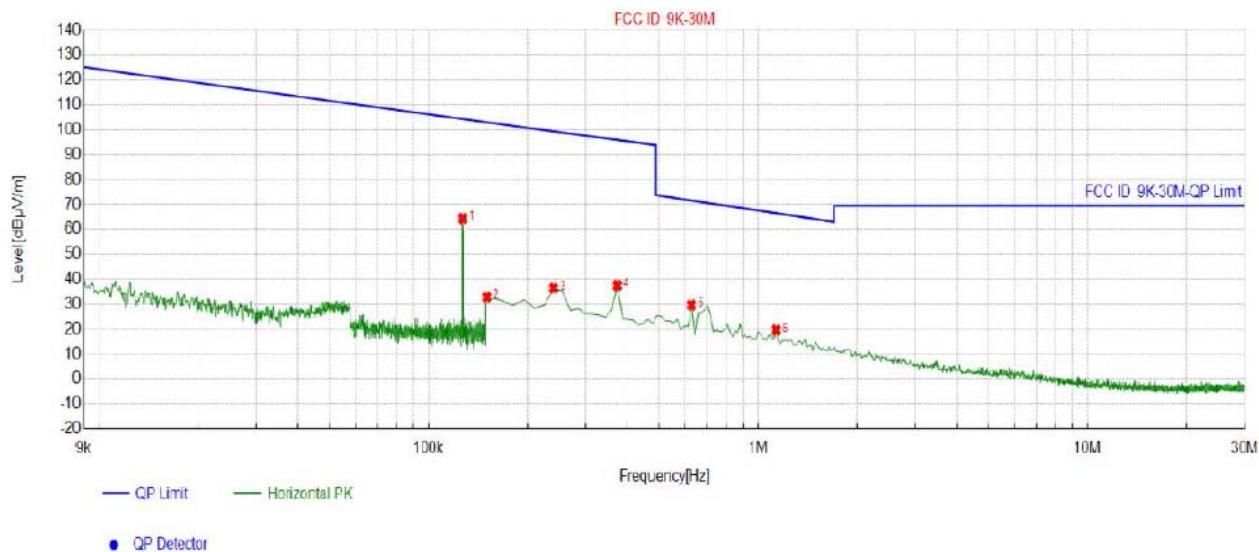
4.4. Test Result

PASS

Note: this EUT was tested for all models and the worst case model (DC5V) data was reported.



For 9KHz-30MHz

**Suspected List**

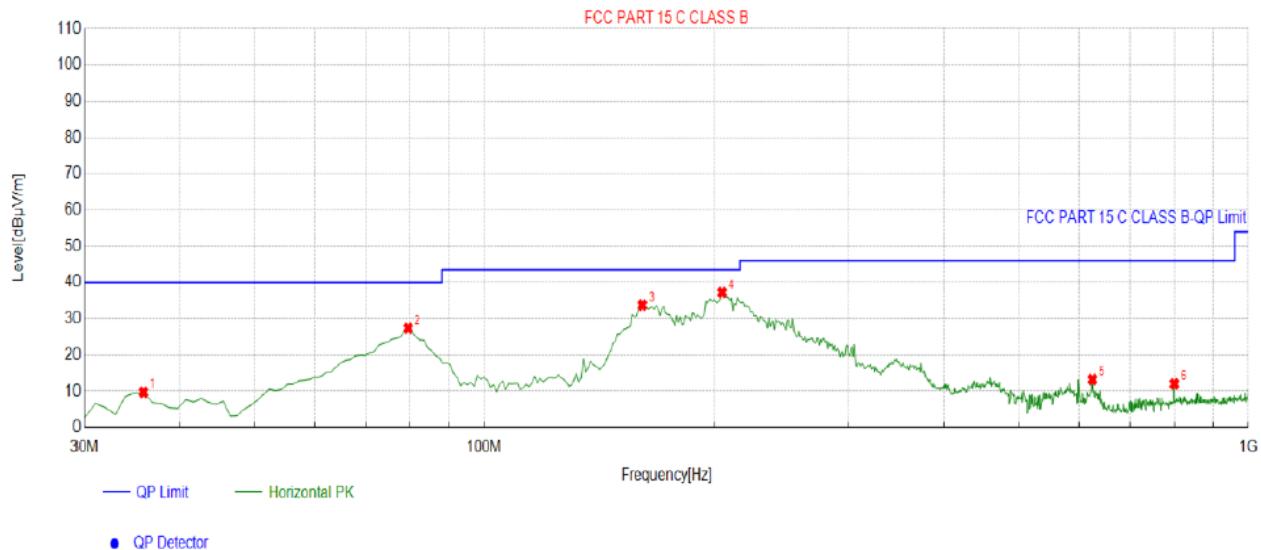
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
1	0.1268	-10.60	73.80	63.20	104.35	41.15
2	0.1500	-10.58	43.42	32.84	103.04	70.20
3	0.2396	-10.89	47.33	36.44	99.38	62.94
4	0.3740	-11.22	48.70	37.48	95.91	58.43
5	0.6278	-10.95	40.62	29.67	71.65	41.98
6	1.1355	-10.52	30.23	19.71	66.52	46.81

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level



For 30MHz-1GHz

Antenna polarity: H

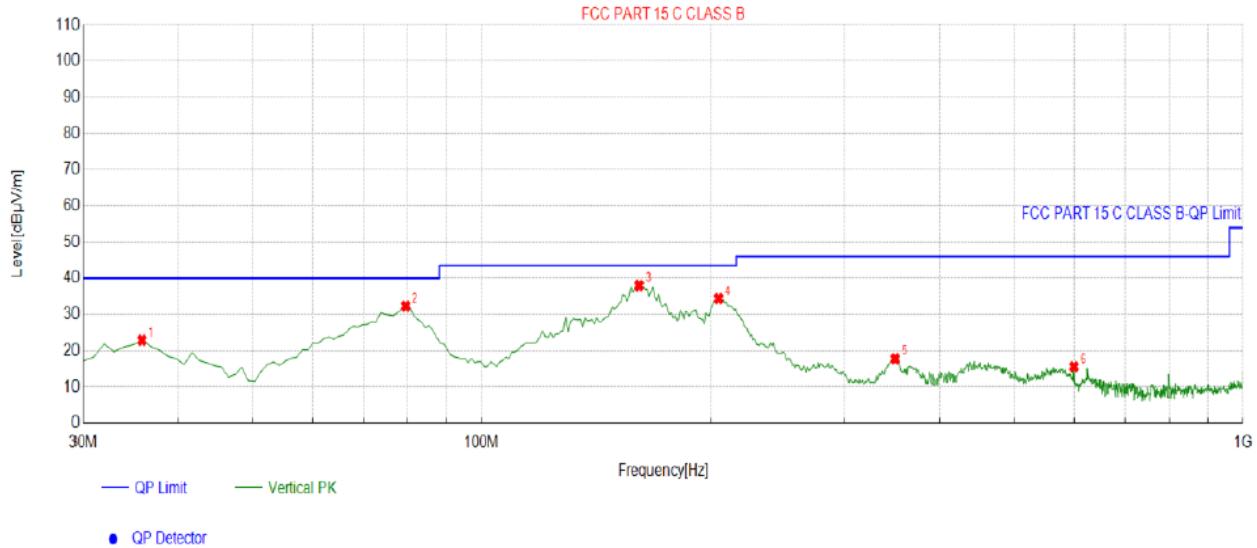


Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8258	-15.82	25.51	9.69	40.00	30.31	100	43	Horizontal
2	79.5195	-17.40	44.75	27.35	40.00	12.65	100	24	Horizontal
3	161.0811	-17.19	50.96	33.77	43.50	9.73	100	30	Horizontal
4	204.7748	-14.64	51.83	37.19	43.50	6.31	100	245	Horizontal
5	625.2052	-4.37	17.56	13.19	46.00	32.81	100	353	Horizontal
6	799.9800	-1.81	13.80	11.99	46.00	34.01	100	105	Horizontal

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor;
 Margin = Limit – Level



Antenna polarity: V



Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dB μ V/m]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	35.8258	-15.82	38.73	22.91	40.00	17.09	100	190	Vertical
2	79.5195	-17.40	49.74	32.34	40.00	7.66	100	150	Vertical
3	161.0811	-17.19	55.22	38.03	43.50	5.47	100	135	Vertical
4	204.7748	-14.64	49.06	34.42	43.50	9.08	100	145	Vertical
5	349.4494	-11.23	29.02	17.79	46.00	28.21	100	315	Vertical
6	599.9600	-4.93	20.55	15.62	46.00	30.38	100	92	Vertical

Remark: Factor = Cable loss + Antenna factor – Preamplifier; Level = Reading + Factor;
Margin = Limit – Level



5. ANTENNA REQUIREMENT

Standard Applicable

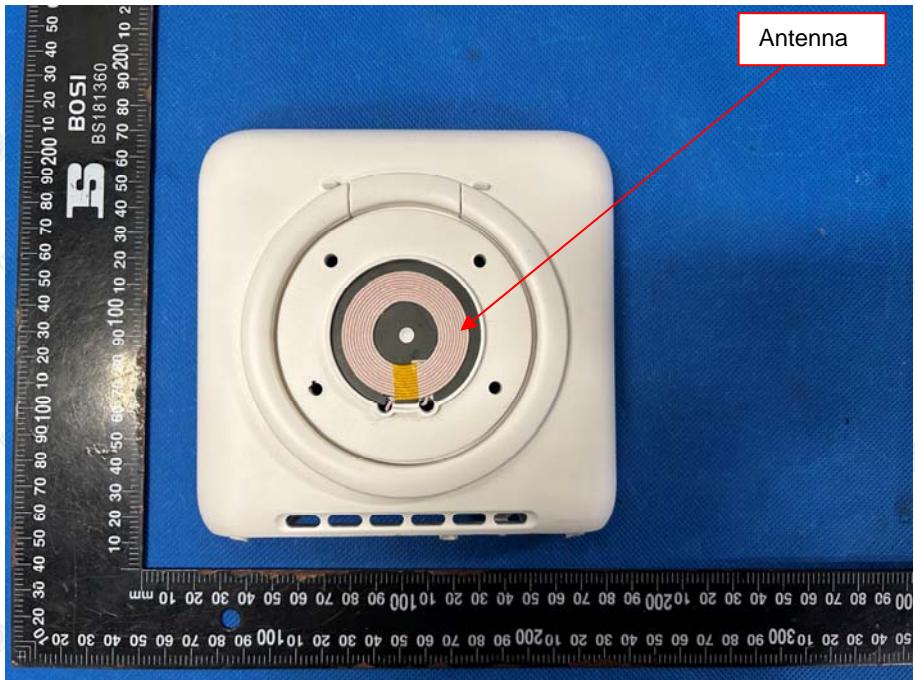
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

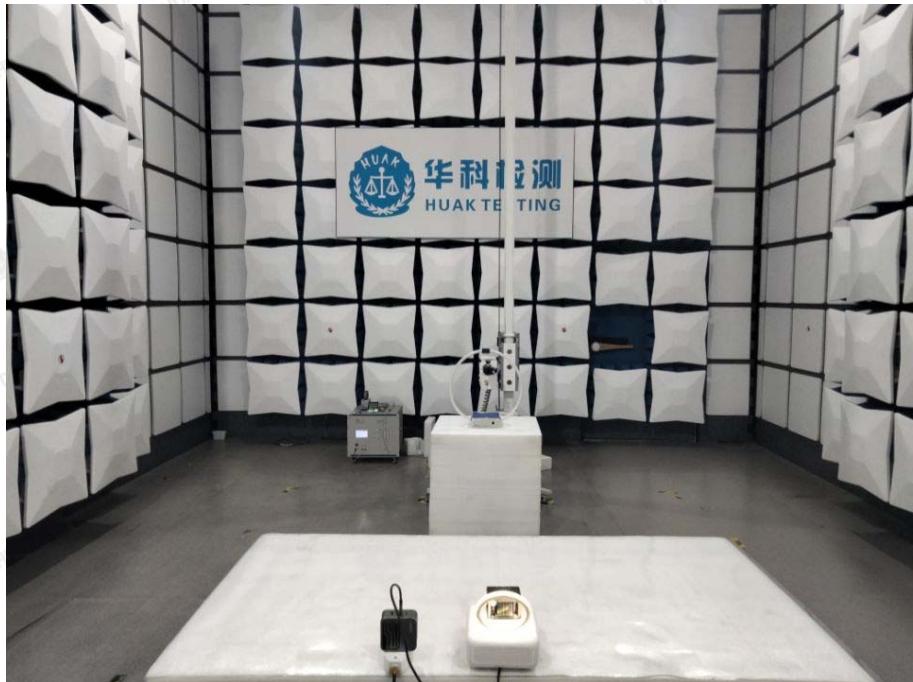
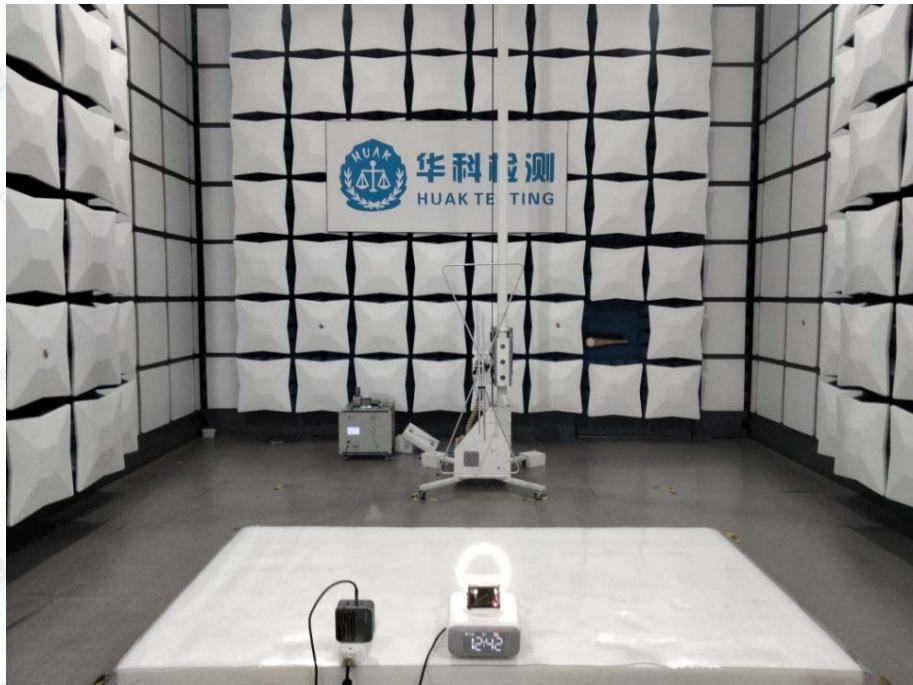
The antenna used in this product is a Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.





6. PHOTOGRAPH OF TEST

Radiated Emission



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TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

**Conducted Emissions**

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TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



7. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----

