

FCC Test Report

Test Report
On Behalf of
Shenzhen Semetor Electronics Co., LTD
For
WIRELESS CHARGER SPEAKER NIGHT LIGHT
Model No.: S16

FCC ID: 2AYRH-S16

Prepared For: Shenzhen Semetor Electronics Co., LTD

B3,3th floor,guanglong building,No.162, pingxin north road,hehua

community,pinghu street, longgang district,shenzhen city,guangdong, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,

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Date of Test: Feb. 28, 2025 ~ Mar. 25, 2025

Date of Report: Mar. 25, 2025

Report Number: HK2502280867-1E

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Test Result Certification

Applicant's Name:	:	Shenzhen	Semetor	Electronics	Co.,	Ľ	Π)
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B3,3th floor,guanglong building,No.162, pingxin north road,hehua

Report No.: HK2502280867-1E

Address.....: community,pinghu street, longgang district,shenzhen

city, guangdong, China

Manufacturer's Name: Shenzhen Semetor Electronics Co.,Ltd.

8th/9th Floor, Hongwei Technology Building, Building B, No. 2

Address.....: Weiling Road, Egongling Community, Pinghu Street, Longgang

District, Shenzhen City, Guangdong Province China

Product Description

Trade Mark N/A

Product Name...... WIRELESS CHARGER SPEAKER NIGHT LIGHT

Model and/or Type Reference: S16

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 Feb. 28, 2025 ~ Mar. 25, 2025

Test Result..... Pass

Testing Engineer :

(Len Liao)

Technical Manager :

(Sliver Wan)

Authorized Signatory

(Jason Zhou)

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** Modified History **

Revision		Description	Description			Remark	
Revisi	ion 1.0	Initial Test Report	Release	Mar. 25	, 2025	Jason Zhou	
STING		TING		ESTING	ESTING	STING	
HUAK	HUAK	HUAK	HUAK	N.S.	HUAK	HUAK I	

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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

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2. General Information

2.1 General Description of EUT

Equipment:	WIRELESS CHAR	GER SPEAKER N	IGHT LIGHT	
Model Name:	S16	HUAK TEST	MAKTES	WAK TES !
Series Models:	N/A	9	9	9
Model Difference:	N/A	1.0	V.TESTING	- C
Trade Mark:	N/A	LAK TESTIN	10 HULL	HAK TESTING
FCC ID:	2AYRH-S16	9	TNG (3
Antenna Type:	Coil Antenna		HUAKTES	0.6
Operation Frequency:	112KHz~205KHz	- JUAKTESTING	LAKTESTINE	WAY TESTING
Test Frequency:	Mobile Phone: 130 Watch: 130KHz	KHz	0,,,,	
Number of Channels:	2		-sG	-16
Modulation Type:	ASK	MAKTESTI	MAKTESTI	MAKTESTI
Power Source:	Input: DC5V/3A, 9V Wireless Charger F Watch Output Pow	Power: 5W/7.5W/1	0W/15W	0
Power Rating:	Input: DC5V/3A, 9\ Wireless Charger F Watch Output Pow	V/2.1A Power: 5W/7.5W/1	0W/15W	HUAKTESTIL

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Antenna gain Refer to the antenna specifications.
- 3. The cable loss data is obtained from the supplier.
- 4. The test results in the report only apply to the tested sample.

TEICATION.

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2.2 Carrier Frequency of Channels

Operation Fre	equency each of cl	nannel	HUAKTE	HUAKTES	HUAKTE
Channel	Frequency				
01	130KHz				
02	130KHz	W.TESTING	X TESTING	V TESTING	KTESTIN

2.3 Operation of EUT during Testing

Test Item	Test mode	Description
HUN	Mode 1	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <1%) + Watch (Battery Status: <1%)
Radiated & Conducted Test Cases	Mode 2	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <50%) + Watch (Battery Status: <1%)
	Mode 3	AC/DC Adapter + EUT + Mobile Phone (Battery Status: >95%) + Watch (Battery Status: <1%)
Radiated &	Mode 4	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <1%) + Watch (Battery Status: <50%)
	Mode 5	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <50%) + Watch (Battery Status: <50%)
	Mode 6	AC/DC Adapter + EUT + Mobile Phone (Battery Status: >95%) + Watch (Battery Status: <50%)
	Mode 7	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <1%) + Watch (Battery Status: >95%)
	Mode 8	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <50%) + Watch (Battery Status: >95%)
	Mode 9	AC/DC Adapter + EUT + Mobile Phone (Battery Status: >95%) + Watch (Battery Status: >95%)
	Mode 10	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%)
	Mode 11	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%)
	Mode 12	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%)
	Mode 13	AC/DC Adapter + EUT + Watch (Battery Status: <1%)
	Mode 14	AC/DC Adapter + EUT + Watch (Battery Status: <50%)
	Mode 15	AC/DC Adapter + EUT + Watch (Battery Status: >95%)
	Mode 16	AC/DC Adapter + EUT (Null Load)

Note:

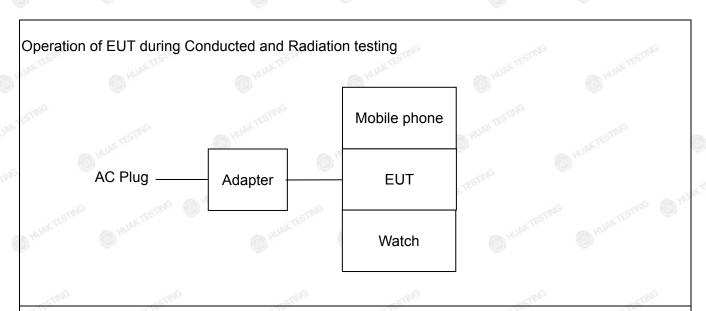
- 1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The Mobile Phone and watch are provided by Lab.
- 4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.

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2.4 Description of Test Setup



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.

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2.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

1	Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
63	1	WIRELESS CHARGER SPEAKER NIGHT LIGHT	N/A	S16	N/A N/A	EUT
10000	2	Adapter	N/A	RCE-3005CL	Input: AC110-240V, 50/60Hz, 0.85A USB-C: DC5V/3A, 9V/3A, 12V/2.5A	Peripheral
	3	Mobile Phone	OPPO	Find X8	N/A	Peripheral
	4511	Watch	N/A	Ultra 2	N/A	Peripheral
Y	0.	(C) HOW	● HO.	O HO	(1) HD. (1) HD.	
	ESTING		-51	NG.	-csTNG	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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2.6 Measurement Instruments List

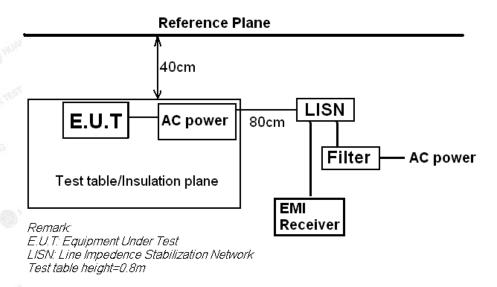
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 19, 2025	1 Year
2.	L.I.S.N.	R&S	ENV216	6 HKE-059	Feb. 19, 2025	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 19, 2025	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	ୀ Year
6.	Preamplifier	EMCI	EMC051845 S	HKE-006	Feb. 19, 2025	1 Year
7.	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 19, 2025	1 Year
8.	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 19, 2025	1 Year
9.	6dB Attenuator	Pasternack	6db	HKE-184	Feb. 19, 2025	1 Year
10.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 19, 2025	1 Year
11,	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12.	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
13.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14.	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	I TEST	G /
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	1 House	/
16.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 19, 2025	1 Year

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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)

Eraguanav	M	aximum RF Li	ine Voltage (d	BμV)	
Frequency (MHz)	CLAS	SS A	CLASS B		
(11112)	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

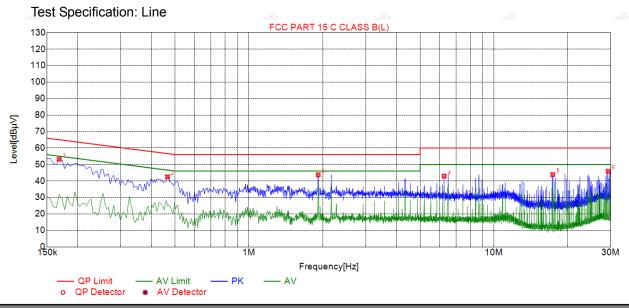
- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2. Support equipment, if needed, was placed as per 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.

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3.4 Test Result

PASS
All the test modes completed for test. Only the worst result of Full Load was reported as below:



~	Sus	spected	List						
	NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµ∀]	Detector	Туре
	1	0.1680	53.15	19.81	65.06	11.91	33.34	PK	L
CONTRACT.	2	0.4650	42.56	19.84	56.60	14.04	22.72	PK	L
	3	1.9185	43.77	19.96	56.00	12.23	23.81	PK	L
	4	6.2700	42.99	20.08	60.00	17.01	22.91	PK	L
2	5	17.4030	43.87	19.84	60.00	16.13	24.03	PK	L
4	6	29.3010	45.87	20.25	60.00	14.13	25.62	PK	L

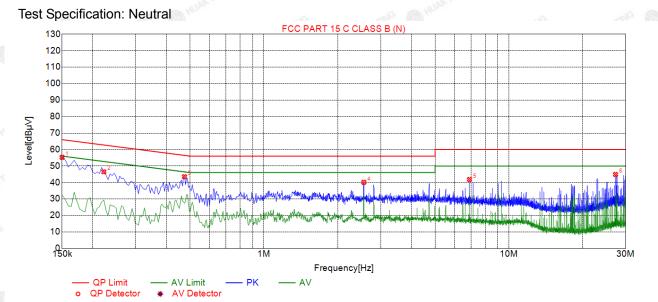
Remark: Margin = Limit - Level

Correction factor = Cable lose + ISN insertion loss

Level=Test receiver reading + correction factor

FICATION

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Sus	Suspected List										
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµ∀]	Detector	Туре			
1	0.1500	55.26	19.73	66.00	10.74	35.53	PK	N			
2	0.2220	46.49	19.74	62.74	16.25	26.75	PK	N			
3	0.4740	43.50	19.73	56.44	12.94	23.77	PK	N			
4	2.5575	40.11	19.90	56.00	15.89	20.21	PK	N			
5	6.9090	41.82	19.97	60.00	18.18	21.85	PK	N			
6	27.2580	44.90	20.31	60.00	15.10	24.59	PK	N			

Remark: Margin = Limit - Level

Correction factor = Cable lose + ISN insertion loss

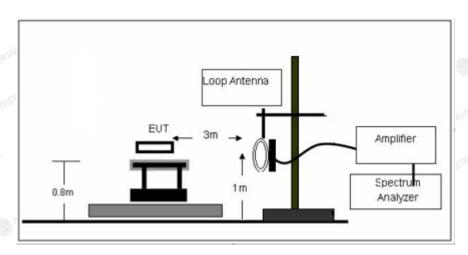
Level=Test receiver reading + correction factor

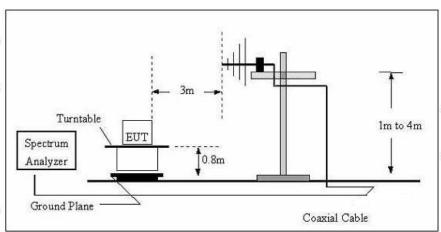
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4. Radiated Emissions

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	(\2\)	
 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	Limit	Distance
(MHz)	(dBuV/m)	(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									
STING TESTING () I'M	9-150KHz	150-490KHz	490KHz-30MHz 9KHz 30KHz Peak Max Hold						
Resolution Bandwidth	200Hz	9KHz							
Video Bandwidth	600Hz	30KHz							
Detector	Peak	Peak							
Trace Mode	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.

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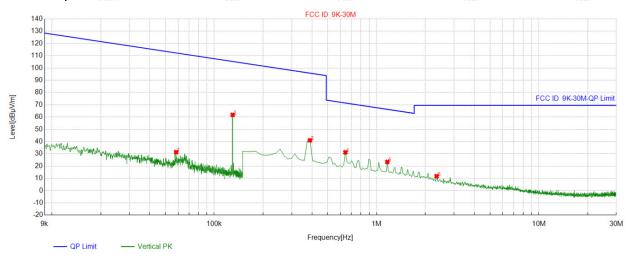


4.4 Test Result

PASS

For 9KHz - 30MHz

Mobile phone:



QP Detector

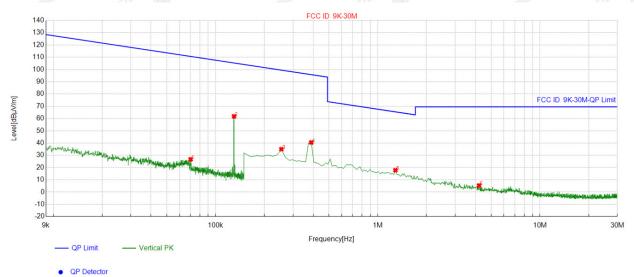
Suspected List

3		Freq.	Factor	Reading	Level	Limit	Margin
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
9	1	0.058234	-10.54	41.90	31.36	112.29	80.93
	2	0.129968	-10.60	72.41	61.81	105.32	43.51
3	3	0.388919	-11.19	52.18	40.99	95.81	54.82
	4	0.642771	-10.95	42.19	31.24	71.45	40.21
<	5	1.165408	-10.52	33.92	23.40	66.30	42.90
	6	2.345073	-10.75	22.49	11.74	69.50	57.76

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

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Watch:



Suspected List Limit Freq. **Factor** Reading Level Margin NO. [MHz] [dB] $[dB\mu V/m]$ [dBµV/m] [dBµV/m] [dB] 0.070154 -10.51 37.20 26.69 83.98 110.67 0.129968 72.41 61.81 105.32 43.51 2 -10.60 3 0.254527 -11.01 46.00 34.99 99.49 64.50 51.68 0.388919 -11.19 40.49 95.81 55.32 1.284867 5 -10.51 28.35 17.84 65.45 47.61 6 4.211631 -11.25 16.64 5.39 69.50 64.11

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

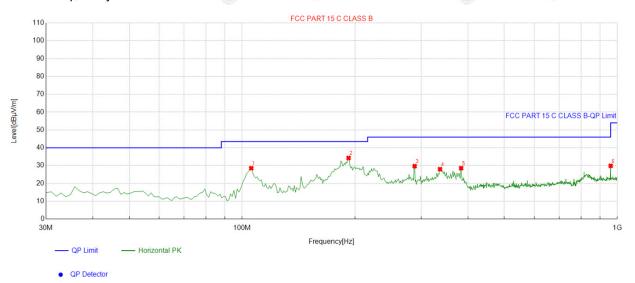


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For 30MHz-1GHz

Antenna polarity: H



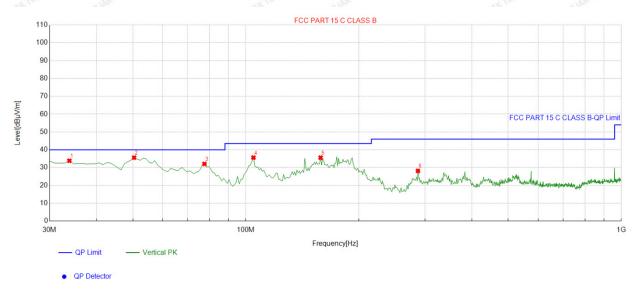
Suspe	Suspected List								
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
1	105.73573	-14.49	43.04	28.55	43.50	14.95	100	241	Horizontal
2	192.15215	-15.74	50.02	34.28	43.50	9.22	100	115	Horizontal
3	288.27827	-12.19	41.90	29.71	46.00	16.29	100	89	Horizontal
4	336.82682	-10.51	38.52	28.01	46.00	17.99	100	9	Horizontal
5	383.43343	-9.11	37.70	28.59	46.00	17.41	100	17	Horizontal
6	960.19019	-0.54	30.41	29.87	54.00	24.13	100	71	Horizontal

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

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Antenna polarity: V



Suspe	Suspected List									
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	33.883884	-15.16	49.01	33.85	40.00	6.15	100	230	Vertical	
2	50.39039	-13.15	48.74	35.59	40.00	4.41	100	239	Vertical	
3	77.577578	-18.02	50.09	32.07	40.00	7.93	100	228	Vertical	
4	104.76476	-14.69	50.31	35.62	43.50	7.88	100	210	Vertical	
5	158.16816	-17.83	53.42	35.59	43.50	7.91	100	282	Vertical	
6	287.30730	-12.28	40.47	28.19	46.00	17.81	100	172	Vertical	

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

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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 Coil Antenna, which permanently attached. It conforms to the standard requirements.

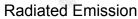
Antenna

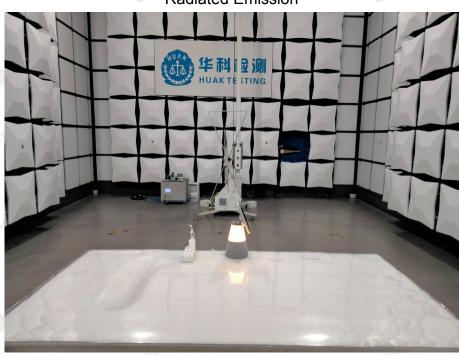


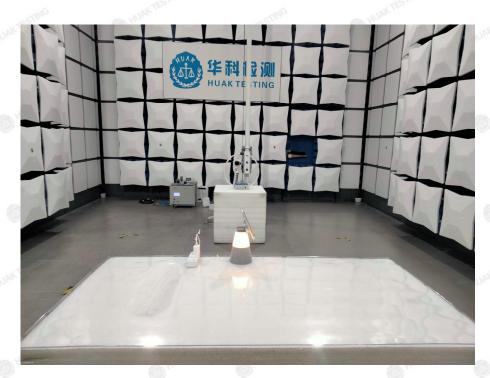
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6. Photographs of Test



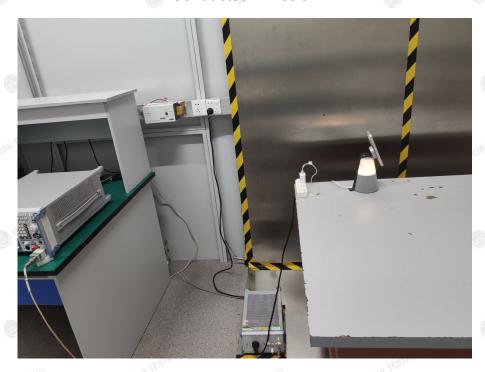




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Conducted Emission



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

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