

FCC Test Report

Test Report
On Behalf of
Shenzhen Kuangxiang Technology Co.,Ltd.
For
MAGNETIC WIRELESS CHARGING SPEAKER
Model No.: K 13

FCC ID: 2BL9Y-K13

Prepared For: Shenzhen Kuangxiang Technology Co.,Ltd.

807, No. 51 Pingxin North Road, Shangmugu Community, Pinghu Street,

Longgang District, ShenzhenCity, Guangdong Province, 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. 21, 2025 ~ Apr. 08, 2025

Date of Report: Apr. 08, 2025

Report Number: HK2502210676-1E

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Test Result Certification

Applicant's Name:	Shenzhen Kuangxiang	Technology	Co.,Ltd.

807, No. 51 Pingxin North Road, Shangmugu Community, Pinghu

Address.....: Street, Longgang District, ShenzhenCity, Guangdong Province,

China

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

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

Report No.: HK2502210676-1E

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

District, Shenzhen City, Guangdong Province China

Product Description

Trade Mark: N/A

Product Name MAGNETIC WIRELESS CHARGING SPEAKER

Model and/or Type Reference: K 13

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. 21, 2025 ~ Apr. 08, 2025

Date of Issue Apr. 08, 2025

Test Result..... Pass

Testing Engineer :

(Len Liao)

Technical Manager:

iver Wan

(Sliver Wan)

Authorized Signatory

justin Fran

(Jason Zhou)

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** Modified History **

Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	Apr. 08, 2025	Jason Zhou	
ESTING	SING	ESTING ESTING	G	
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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:	MAGNETIC WIRE	LESS CHARGING SF	PEAKER	-niG
Model Name:	K 13	WAYTEST	MAKTESTI	WAY TESTIN
Series Models:	N/A			9
Model Difference:	N/A	.a	X TESTING	.6
Trade Mark:	N/A	HAYTESTIN	HUM	" JAK TESTING
FCC ID:	2BL9Y-K13	0	nic (
Antenna Type:	Coil Antenna	I HUAN	CTEST	.0.
Operation Frequency:	112KHz~205KHz	WAY TESTING	"IAK TESTING	HUAKTESTING
Test Frequency:	147KHz		0,,,	(a)
Number of Channels:	1			
Modulation Type:	ASK	V TESTING	, K TESTING	A TESTING
Power Source:	Wireless charging Wireless charging Speaker input: DC Speaker power: 5	output: 7.5W/10W/15V 5V, 500mA	N MAY TESTING	● HO
Power Rating:	Wireless charging Wireless charging Speaker input: DC Speaker power: 5	output: 7.5W/10W/15V 5V, 500mA	N TESTING	HUANTE S

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.

FICATION

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2.2 Carrier Frequency of Channels

Operation Free	quency each of channel	HUAK TES !!	HUAKTE
Channel	Frequency	(1)	
Middle CH	147KHz		

2.3 Operation of EUT during Testing

Test Item	Test mode	Description	
Radiated &	Mode 1	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <1%)	3
Conducted	Mode 2	AC/DC Adapter + EUT + Mobile Phone (Battery Status: <50%)	
Test Cases	Mode 3	AC/DC Adapter + EUT + Mobile Phone (Battery Status: >95%)	-NG

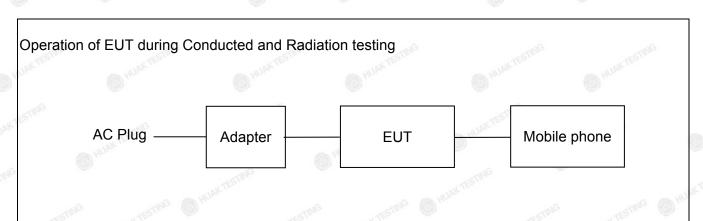
Note:

- 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 is 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.

Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	MAGNETIC WIRELESS CHARGING SPEAKER	N/A	K 13	N/A N/A	EUT
2	Adapter	N/A	RLC-381BM	Input: AC100-240V, 50/60Hz, 0.5A Output Power: 20W Max USB-C: DC5V/3A, 9V/2.22A, 12V/1.67A	Accessory
3	USB Cable	™ N/A	N/A STIME	Length: 100cm	Accessory
4	Mobile Phone	OPPO	Find X8	N/A	Peripheral
-m/G			NG.	, nIG	
TES	STING	HUAKTES	STING	HUANTES.	5
	HUAKTE		HUAKTE	HUANTE	

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

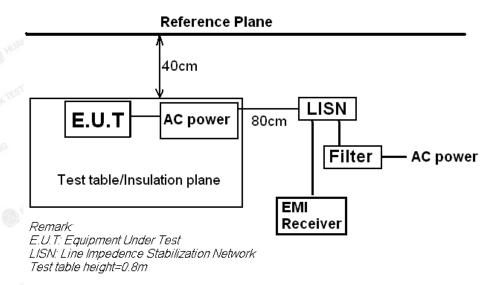
	asai cilicili ilisti ai	HOHIO EIST				
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 19, 2025	1 Year
2.	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 19, 2025	1 Year
3.	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 19, 2025	1 Year
4.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 19, 2025	1 Year
5.	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 19, 2025	ୀ Year
6.	Preamplifier	EMCI	EMC051845S	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 NEST	G /
15.	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	T HOME	1
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	Maximum RF Line Voltage (dBμV)						
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.

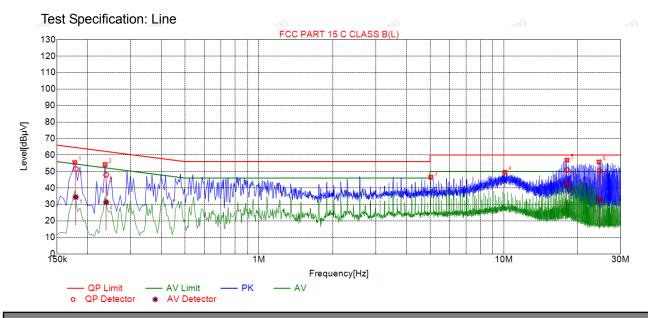
3.3 Test Procedure

- 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:



Suspected List									
NO.		Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Reading [dBµ∀]	Detector	Туре
	1	0.1770	55.49	19.71	64.63	9.14	35.78	PK	اــ
TO THE PARTY OF	2	0.2355	54.22	19.83	62.25	8.03	34.39	PK	
	3	5.0325	46.55	20.39	60.00	13.45	26.16	PK	اــ
	4	10.1040	49.60	21.17	60.00	10.40	28.43	PK	
Ž	5	18.1050	56.90	22.56	60.00	3.10	34.34	PK	L
ς [6	24.4950	55.76	24.21	60.00	4.24	31.55	PK	L

Final	Final Data List										
NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dΒμV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	AV Reading [dBμV]	Туре
1	0.1788	19.73	51.53	64.54	13.01	31.80	34.46	54.54	20.08	14.73	L
2	0.2379	19.83	47.99	62.17	14.18	28.16	31.37	52.17	20.80	11.54	L
3	18.0919	22.56	50.94	60.00	9.06	28.38	41.98	50.00	8.02	19.42	L
4	24.5829	24.23	50.36	60.00	9.64	26.13	33.14	50.00	16.86	8.91	L

Remark: Margin = Limit - Level

Correction factor = Cable lose + ISN insertion loss

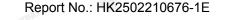
Level=Test receiver reading + correction factor

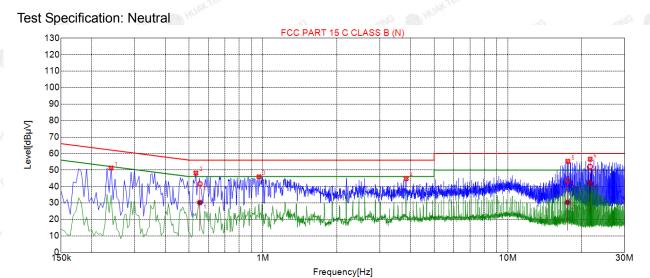
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Suspected List										
NO.	Freq. [MHz]	Level [dBµ∀]	Factor [dB]	Limit [dBµ∀]	Margin [dB]	Reading [dBµ∀]	Detector	Туре		
1	0.2400	51.23	19.64	62.10	10.87	31.59	PK	N		
2	0.5325	48.17	19.75	56.00	7.83	28.42	PK	N		
3	0.9645	45.89	19.76	56.00	10.11	26.13	PK	N		
4	3.8445	44.80	20.14	56.00	11.20	24.66	PK	N		
5	17.5695	55.29	22.43	60.00	4.71	32.86	PK	N		
6	21.6915	56.58	23.52	60.00	3.42	33.06	PK	N		

	Final	Final Data List										
5	NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBμV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	AV Reading [dBμV]	Туре
ς	1	0.5528	19.76	41.56	56.00	14.44	21.80	30.27	46.00	15.73	10.51	N
	2	17.5410	22.43	43.67	60.00	16.33	21.24	30.41	50.00	19.59	7.98	N
	3	21.6850	23.52	52.06	60.00	7.94	28.54	42.15	50.00	7.85	18.63	N

Remark: Margin = Limit - Level

Correction factor = Cable lose + ISN insertion loss

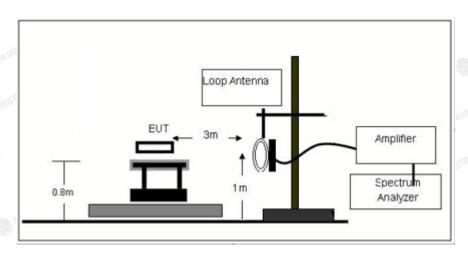
Level=Test receiver reading + correction factor

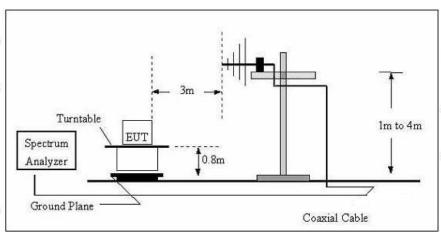
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4. Radiated Emissions

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.

łz
5.15
-5.46
-7.75
5-8.5
0.2
0.5
-12.7
5-13.4
7-14.5
5-16.2
-21.4
1-23.12
-24.0
-31.8
3-36.5

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	1 .	
(MHz)	(MHz) (dBuV/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						
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.

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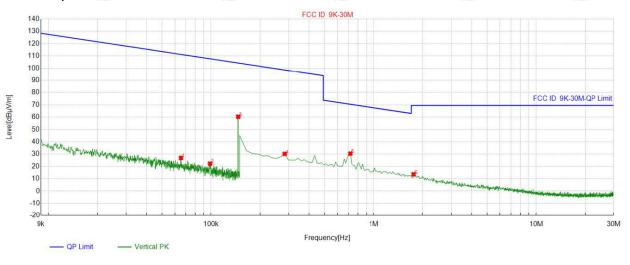


4.4 Test Result

PASS

For 9KHz - 30MHz

Mobile phone:



Suspected List

	Сиоро						
3		Freq.	Factor	Reading	Level	Limit	Margin
80	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
NG.	1	0.065428	-10.54	37.46	26.92	111.28	84.36
	2	0.098509	-10.39	32.66	22.27	107.73	85.46
-3	3	0.146685	-10.58	70.79	60.21	104.27	44.06
	4	0.284392	-11.25	41.45	30.20	98.52	68.32
<	5	0.717434	-10.95	41.36	30.41	70.50	40.09
	6	1.762706	-10.49	24.11	13.62	69.50	55.88

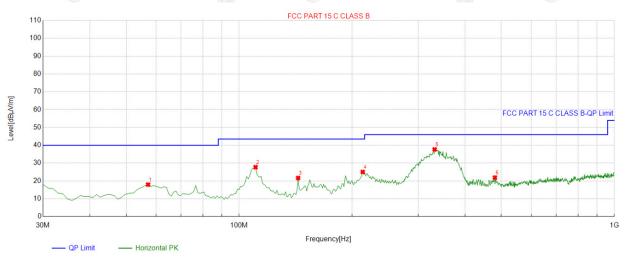
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

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For 30MHz-1GHz

Antenna polarity: H



QP Detecto

S	uspe	cted List								
		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
	10.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	57.187187	-13.76	31.71	17.95	40.00	22.05	100	154	Horizontal
à	2	110.59059	-14.50	42.23	27.73	43.50	15.77	100	325	Horizontal
	3	143.60360	-18.35	40.00	21.65	43.50	21.85	100	176	Horizontal
	4	213.51351	-14.79	39.83	25.04	43.50	18.46	100	46	Horizontal
	5	331.97197	-10.78	48.44	37.66	46.00	8.34	100	237	Horizontal
9	6	480.53053	-8.25	30.14	21.89	46.00	24.11	100	66	Horizontal

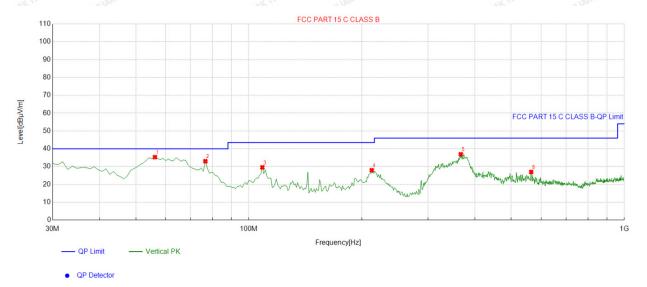
Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



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Antenna polarity: V



	Suspected List									
ĕ		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	
<	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	56.216216	-13.94	49.25	35.31	40.00	4.69	100	163	Vertical
	2	76.606607	-17.96	50.99	33.03	40.00	6.97	100	239	Vertical
3	3	108.64864	-14.02	43.58	29.56	43.50	13.94	100	166	Vertical
	4	212.54254	-14.82	42.79	27.97	43.50	15.53	100	123	Vertical
	5	366.92692	-9.71	46.62	36.91	46.00	9.09	100	3	Vertical
	6	565.00500	-6.22	33.23	27.01	46.00	18.99	100	94	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.

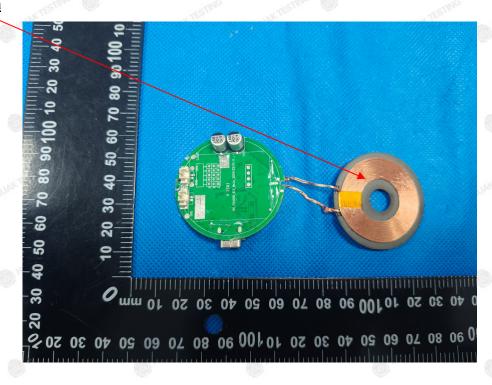
Refer to statement below for compliance.

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

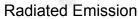
Antenna

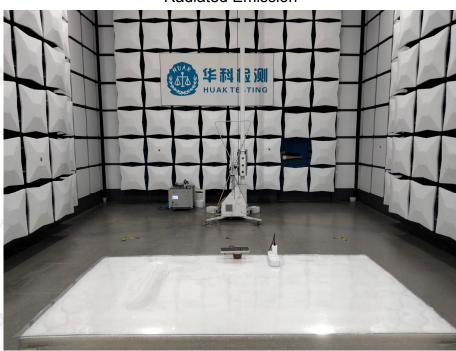


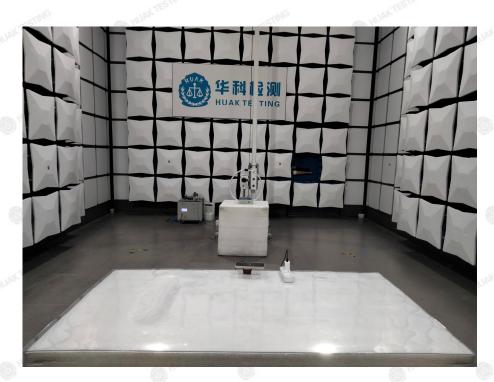
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6. Photographs of Test







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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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