

FCC Test Report

Test Report
On Behalf of
ShenZhen Zhongyi Technology CO., Ltd.
For
Sovereign 4000mAh Power Bank
Model No.: EPB-SV24, W005Q

FCC ID: 2A9Q9-EPB-SV24

Prepared For: ShenZhen Zhongyi Technology CO., Ltd.

Room 401, No.4 Road One, Shangxue Science and Technology City, Xinxue

Community, Bantian Street, Longgang District, Shenzhen, China

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

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Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Nov. 13, 2023 ~ Nov. 21, 2023

Date of Report: Nov. 21, 2023

Report Number: HK2311135404-1E

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Test Result Certification

Applicant's Name.....: ShenZhen Zhongyi Technology CO., Ltd.

Room 401, No.4 Road One, Shangxue Science and Technology

Report No.: HK2311135404-1E

Address.....: City, Xinxue Community, Bantian Street, Longgang District,

Shenzhen, China

Manufacture's Name.....: ShenZhen Zhongyi Technology CO., Ltd.

Room 401, No.4 Road One, Shangxue Science and Technology

Address.....: City, Xinxue Community, Bantian Street, Longgang District,

Shenzhen, China

Product Description

Trade Mark: N/A

Product Name Sovereign 4000mAh Power Bank

Model and/or Type Reference: EPB-SV24, W005Q

Standards: FCC CFR 47 PART 18

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Date of Test

Test Result..... Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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** Modified History **

Revision		Descriptio	Issued Data		Remark	
Revisi	ion 1.0	Initial Test Report	Release	Nov. 21	, 2023	Jason Zhou
ESTING		TING		ESTING	-STING	STING
HUAK	HUAK	HUAK	HUAK	N.S.	HUAK I	HUAK

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1. Test Summary

1.1. Test Procedures and Results

Description of Test	Section Number	Result
Conducted Emissions Test	18.307	COMPLIANT
Radiated Emission Test	18.305	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

2.71dB, k=2 Conducted Emission Expanded Uncertainty Radiated emission expanded uncertainty(9kHz-30MHz) 3.90dB, k=23.90dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) 4.28dB, k=2 Radiated emission expanded uncertainty(Above 1GHz)

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2. General Information

2.1. General Description of EUT

Equipment:	Sovereign 4000mAh Power Bank
Model Name:	EPB-SV24
Series Models:	W005Q
Model Difference:	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample mode: EPB-SV24.
Trade Mark:	N/A TEST
FCC ID:	2A9Q9-EPB-SV24
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation Frequency:	112KHz~205KHz
Test Frequency:	112KHz
Modulation Type:	ASK
Power Source:	USB-C Input / Output: DC 5V/2A USB Output: DC 5V/2A Wireless Output: 5W Capacity:4000mAh/3.7V, 14.8Wh
Power Rating:	USB-C Input / Output: DC 5V/2A USB Output: DC 5V/2A Wireless Output: 5W Capacity:4000mAh/3.7V, 14.8Wh

FICATION

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2.2. Carrier Frequency of Channels

Operation	Frequency each of channel	HUAKTE	HUAKTEST	HUAKTE
Channel	Frequency	~	(9)	
01	112KHz			

2.3. Operation of EUT during Testing

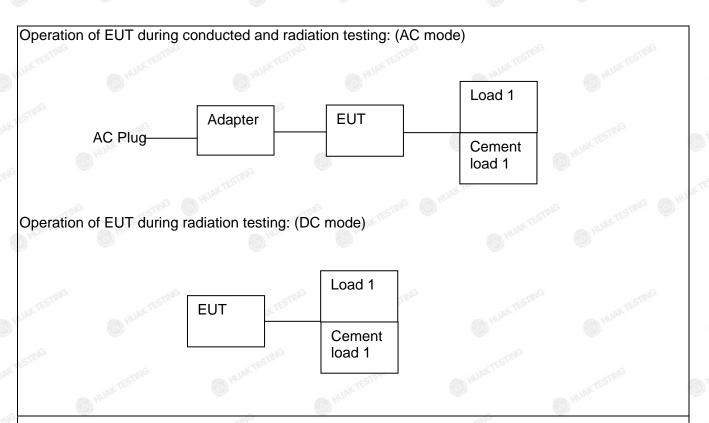
Test Item	Test mode	Description	
O HU	Mode 1	AC/DC Adapter+ EUT +Wireless load (Full Load)	TESTIVE
Radiated & Conducted test	Mode 2	AC/DC Adapter+ EUT +Wireless load (Half Load)	HUAR
cases	Mode 3 Mode 4	AC/DC Adapter+ EUT +Wireless load (Null Load) EUT +Wireless load (Full Load)	
UAKTESTING	Mode 5	EUT +Wireless load (Half Load)	MAKTEST
0	Mode 6	EUT +Wireless load (Null Load)	9

Note:

- 1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report, the worst-case configuration is Mode 1.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The wireless load replaces the Mobile Phone 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	Sovereign 4000mAh Power Bank	N/A	EPB-SV24	N/A	EUT
2	USB Cable	N/A	N/A	Length: 0.5m	Accessory
JAK TESTI	S HUNY TESTIN		HUAK TESTING HUAK	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX	HUN TESTING
3	Adapter	N/A N/A NUM NUM NUM NUM NUM NUM NUM NU	CD289	USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	Peripheral
4	Load 1	YBZ	N/A	5W Max	Peripheral
5	Cement load 1	N/A	N/A	5Ω	Peripheral
AKTESTI	JAK TESTIN		LOK TESTING	ESTINE	LAKTESTING

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

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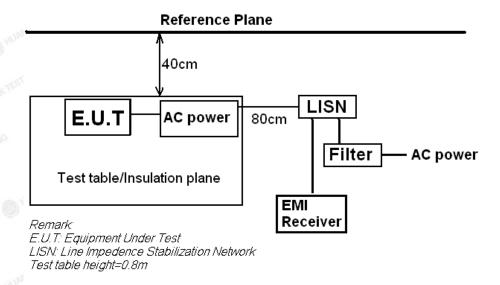
2.6. Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interva
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	1 Year
7.75	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 17, 2023	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 17, 2023	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 17, 2023	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	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. 17, 2023	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 17, 2023	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 18.307(b)

I	F	Maximum RF Line Voltage (dBμV)					
I	Frequency (MHz)	CLAS	SS A	C	CLASS B		
I	(111112)	Q.P.	Ave.	Q.P.	Ave.		
	0.15 - 0.50	79	66	66-56*	56-46*		
I	0.50 - 5.00	73	60	56	46		
ĺ	5.00 - 30.0	73	60	60	50		

^{*} Decreasing linearly with the logarithm of the frequency

For intentional device, according to §18.307 Line Conducted Emission Limit is same as above table.

3.3. Test Procedure

- 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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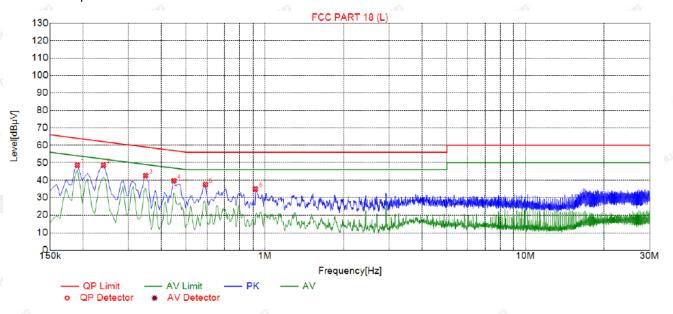


3.4. Test Result

PASS

All the test modes completed for test. Only the worst result(AC Working Full Load) was reported as below:





Sus	spected	List						
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.1905	48.54	20.04	64.01	15.47	28.50	PK	L
2	0.2400	48.51	20.03	62.10	13.59	28.48	PK	L
3	0.3480	42.58	20.03	59.01	16.43	22.55	PK	L
4	0.4470	39.68	20.04	56.93	17.25	19.64	PK	L

56.00

56.00

18.47

21.03

17.48

14.91

PΚ

PΚ

Remark: Margin = Limit - Level

6

0.5910

0.9195

Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

37.53

34.97

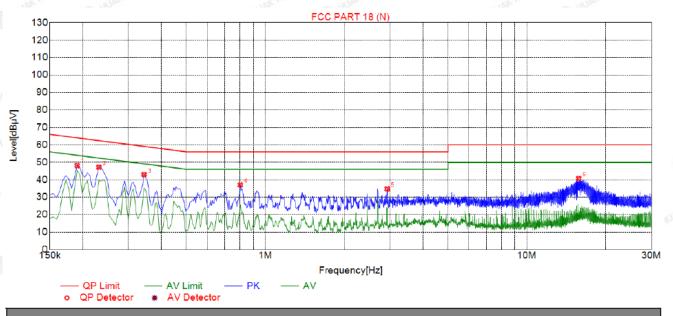
20.05

20.06

TEICATION

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Test Specification: Neutral



Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBμV]	Detector	Туре	
1	0.1905	48.17	20.04	64.01	15.84	28.13	PK	N	
2	0.2310	47.21	20.03	62.41	15.20	27.18	PK	N	
3	0.3435	42.96	20.03	59.12	16.16	22.93	PK	N	
4	0.8025	37.03	20.06	56.00	18.97	16.97	PK	N	
5	2.9265	34.76	20.21	56.00	21.24	14.55	PK	N	
6	15.8055	40.71	19.98	60.00	19.29	20.73	PK	N	

Remark: Margin = Limit - Level

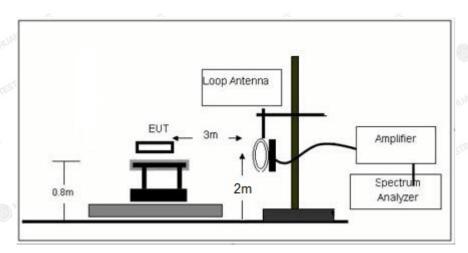
Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

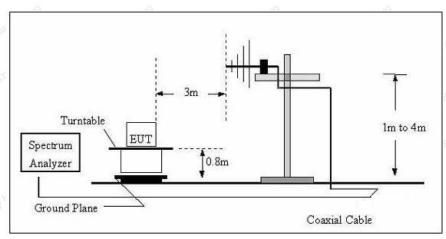
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4. Radiated Emissions

4.1. Block Diagram of Test Setup





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4.2. Rules and Specifications

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
(miscellaneous)				
	Any non- ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 1300

Remark:

- (1) Emission level dBuV/m for $0.009\sim30$ MHz = $20\log(15) + 40\log(300/3)$ dBuV/m;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

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 measurements are extrapolated to 300m and 30m distance respectively, by 40dB/decade, 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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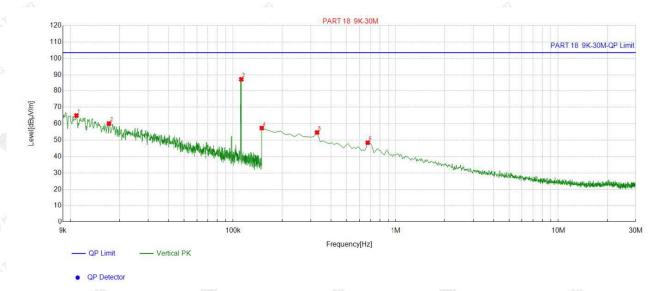


4.4. Test Result

PASS

Note: All the test modes completed for test. Only the worst result AC Working Full Load was reported as below:

For 9KHz - 30MHz



Suspected List Freq. Factor Reading Level Limit Margin NO. [MHz] [dB] [dBµV/m] $[dB\mu V/m]$ $[dB\mu V/m]$ [dB] 16.48 0.010904 48.45 64.93 103.50 38.57 1 2 0.017253 15.13 44.92 60.05 103.50 43.45 3 0.112264 13.81 73.64 87.45 103.50 16.05 0.15 13.76 43.57 57.33 103.50 46.17 0.32919 13.72 5 40.92 54.64 103.50 48.86 0.672636 13.78 34.63 48.41 103.50 6 55.09

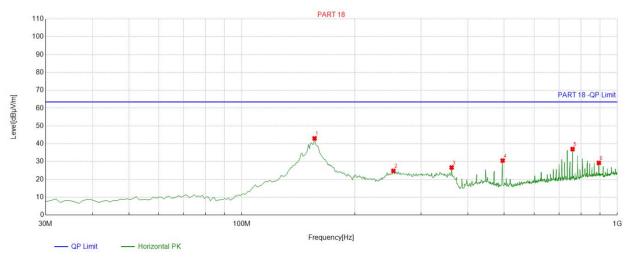
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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For 30MHz-1GHz

Antenna polarity: H



QP Detecto

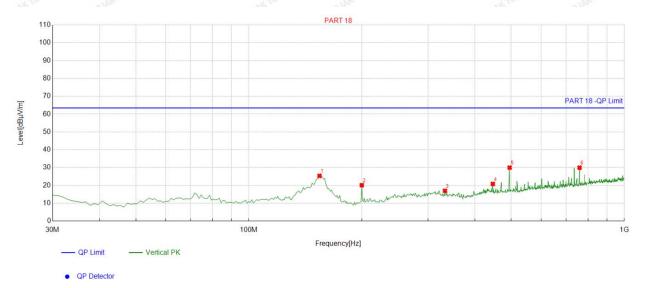
Ą	Suspe	uspected List										
<	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity		
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]			
3.	1	156.22622	-18.26	61.28	43.02	63.50	20.48	100	6	Horizontal		
	2	253.32332	-13.07	37.86	24.79	63.50	38.71	100	205	Horizontal		
	3	362.07207	-11.05	37.74	26.69	63.50	36.81	100	150	Horizontal		
8	4	495.09509	-7.23	37.81	30.58	63.50	32.92	100	188	Horizontal		
200	5	760.17017	-2.56	39.58	37.02	63.50	26.48	100	186	Horizontal		
	6	893.19319	-0.59	29.88	29.29	63.50	34.21	100	264	Horizontal		

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

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Antenna polarity: V



Suspected List										
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]		
1	154.28428	-18.60	43.96	25.36	63.50	38.14	100	234	Vertical	
2	199.91992	-15.27	35.40	20.13	63.50	43.37	100	99	Vertical	
3	332.94294	-11.54	28.55	17.01	63.50	46.49	100	359	Vertical	
4	446.54654	-8.37	29.22	20.85	63.50	42.65	100	228	Vertical	
5	495.09509	-7.23	37.22	29.99	63.50	33.51	100	225	Vertical	
6	760.17017	-2.56	32.51	29.95	63.50	33.55	100	99	Vertical	

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



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5. Antenna Requirement

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.

Antenna



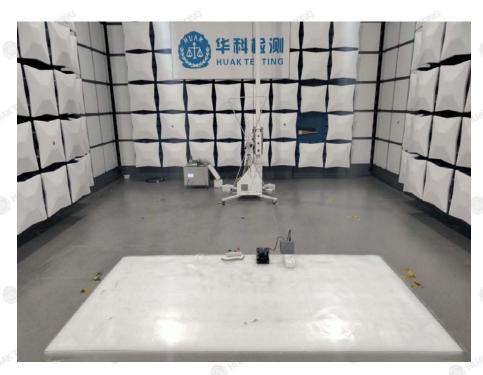
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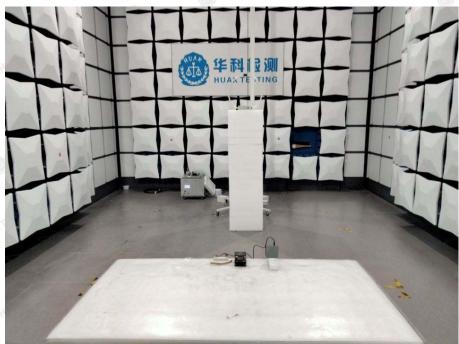


6. Photograph of Test

Radiated Emission

AC Mode:





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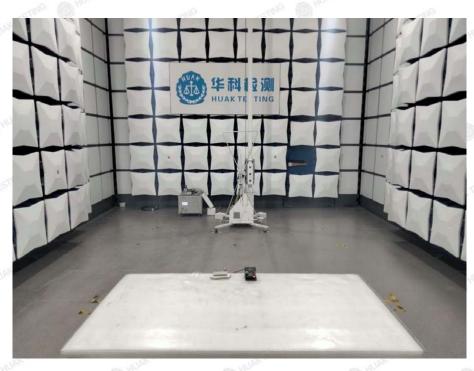
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com

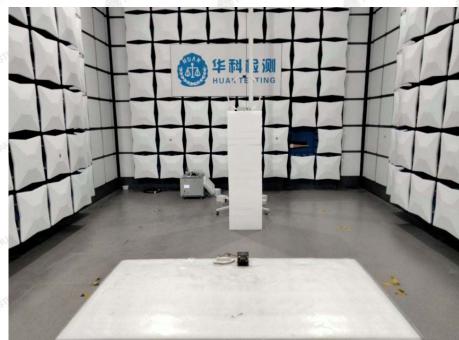
Add: 1-2F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China





DC Mode:





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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 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.

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

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