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Report No.: HK2308283973-1E

FCC Test Report

Test Report
On Behalf of
ShenZhen Zhongyi Technology CO., Ltd.

FSC Bamboo 5000mAh Dual Port Power Bank with Wireless Charger

Model No.: EPB-FS23, M2012Q-A

FCC ID: 2A9Q9-M2012Q-A

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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Date of Test: Aug. 28, 2023 ~ Sept. 12, 2023

Date of Report: Sept. 12, 2023

Report Number: HK2308283973-1E

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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.: HK2308283973-1E

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

City, Xinxue Community, Bantian Street, Longgang District,

Shenzhen, China

Product Description

Trade Mark: N/A

FSC Bamboo 5000mAh Dual Port Power Bank with Wireless Product Name.....

Charger

Model and/or Type Reference: EPB-FS23, M2012Q-A

Standards: FCC CFR 47 PART 18

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Date of Test

Date (s) of Performance of Tests Aug. 28, 2023 ~ Sept. 12, 2023

Date of Issue....: Sept. 12, 2023

Test Result.....

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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** Modified History **

Report No.: HK2308283973-1E

Revi	ision	Descriptio	n	Issued	Data	Remark
Revision 1.0		Initial Test Report	Sept. 12, 2023		Jason Zhou	
ESTING		TING	,	ESTING	ESTING	ESTING
HUAK	HUAK	HUAKI	HUAK	180	HUAK	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

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:	FSC Bamboo 5000mAh Dual Port Power Bank with Wireless Charger
Model Name:	EPB-FS23
Series Models:	M2012Q-A
Model Difference:	All model's the function, software and electric circuit are the same, only with a product model named different. Test sample mode: EPB-FS23.
Trade Mark:	N/A
FCC ID:	2A9Q9-M2012Q-A
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi
Operation Frequency:	112KHz~205KHz
Test Frequency:	129KHz
Number of Channels:	1 HUAR HUAR HUAR
Modulation Type:	ASK
Power Source:	USB-C Input / Output: DC 5V/2A USB Output: DC 5V/2A Wireless Output: 5W Battery Capacity: 5000mAh/3.7V, 18.5Wh
Power Rating:	USB-C Input / Output: DC 5V/2A USB Output: DC 5V/2A Wireless Output: 5W Battery Capacity: 5000mAh/3.7V, 18.5Wh

FICATION

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2.2. Carrier Frequency of Channels

Operation	Frequency each of channel	HUAKTE	HUAK TEST	HUAKTES
Channel	Frequency	9	(9)	
01	129KHz			

2.3. Operation of EUT during Testing

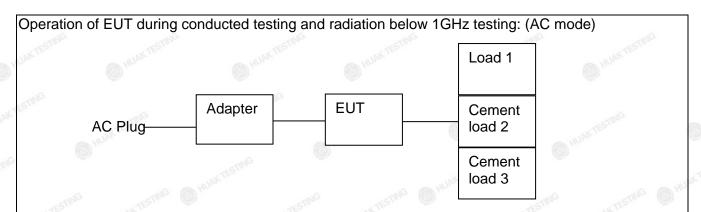
Test Item	Test	Description
O HUNE	Mode 1	AC/DC Adapter+ EUT +Wireless load (Full Load)
Radiated &	Mode 2	AC/DC Adapter+ EUT +Wireless load (Half Load)
Conducted test	Mode 3	AC/DC Adapter+ EUT +Wireless load (Null Load)
cases	Mode 4	EUT +Wireless load (Full Load)
	Mode 5	EUT +Wireless load (Half Load)
0	Mode 6	EUT +Wireless load (Null Load)

Note:

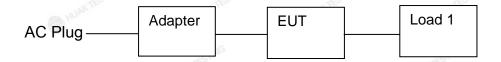
- 1. All modes and configurations above have been tested, Only the result of the worst case was recorded in the report, the worst-case configuration is Mode 1.
- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
- 3. The wireless load replaces the Mobile Phone by Lab.
- 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



Operation of EUT during radiation above 1GHz testing: (AC mode)



Operation of EUT during radiation testing: (DC mode)



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	FSC Bamboo 5000mAh Dual Port Power Bank with Wireless Charger	N/A	EPB-FS23	THE N/A	EUT (
2	USB Cable	N/A	N/A	Length: 0.51m	Accessory
HUAK TESTIN	MARK TESTIN		HUAN TESTING	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A,	WAY TESTING
TESTING	NAV TESTING	€ HU		9V3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX	
3	Adapter	N/A	CD289	USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX	Peripheral
O HUAK TE	THE HUARTESTINE			USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	
4	Load 1	YBZ	N/A	5W Max	Peripheral
5	Cement load 2	N/A	N/A	5Ω	Peripheral
6	Cement load 3	N/A	N/A	5Ω	Peripheral

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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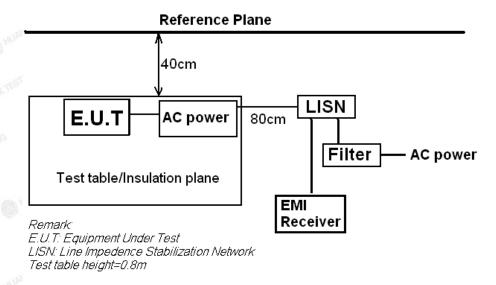
2.6. Measurement Instruments List

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 RF automatic Tonscend Control unit		ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.			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)

F	Maximum RF Line Voltage (dBμV)							
Frequency (MHz)	CLAS	SS A	CLASS B					
(111112)	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 §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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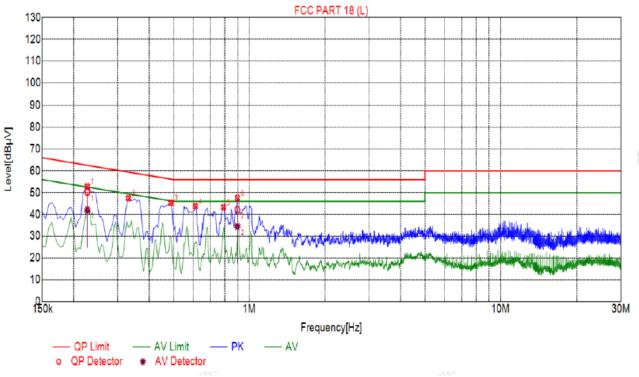


3.4. Test Result

PASS

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

Test Specification: Line



Sus	Suspected List											
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре				
1	0.2265	52.91	20.03	62.58	9.67	32.88	PK	L				
2	0.3300	47.48	20.04	59.45	11.97	27.44	PK	L				
<u>3</u>	0.4875	45.33	20.04	56.21	10.88	25.29	PK	L				
4	0.6090	43.76	20.05	56.00	12.24	23.71	PK	L				
5	0.7890	43.25	20.05	56.00	12.75	23.20	PK	L				
6	0.8970	47.56	20.06	56.00	8.44	27.50	PK	L				

Final Data List												
	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]	ΑV Reading [dBμV]	Туре
	1	0.2265	20.03	50.19	62.58	12.39	30.15	41.98	52.58	10.60	21.94	L
	2	0.8970	20.06	42.21	56.00	13.79	22.15	34.49	46.00	11.51	14.43	L

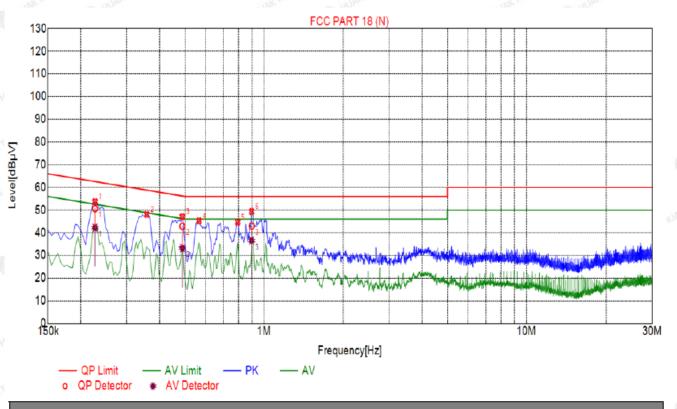
Remark: Margin = Limit - Level

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

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Test Specification: Neutral



Sus	Suspected List												
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре					
1	0.2265	53.73	20.03	62.58	8.85	33.70	PK	N					
2	0.3570	48.03	20.03	58.80	10.77	28.00	PK	N					
3	0.4875	47.08	20.04	56.21	9.13	27.04	PK	N					
4	0.5640	45.19	20.06	56.00	10.81	25.13	PK	N					
5	0.7935	44.68	20.05	56.00	11.32	24.63	PK	N					
6	0.8970	49.33	20.06	56.00	6.67	29.27	PK	N					

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	0.2265	20.03	50.62	62.58	11.96	30.59	42.22	52.58	10.36	22.19	N
2	0.4875	20.04	42.84	56.21	13.37	22.80	33.19	46.21	13.02	13.15	N
3	0.8970	20.06	42.91	56.00	13.09	22.85	36.50	46.00	9.50	16.44	N

Remark: Margin = Limit – Level

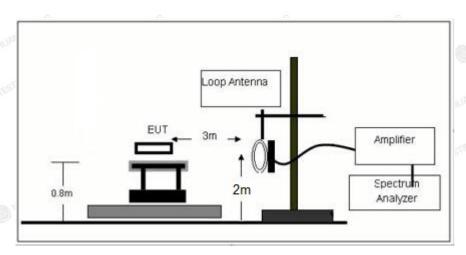
Correction factor = Cable lose + LISN insertion loss Level=Test receiver reading + correction factor

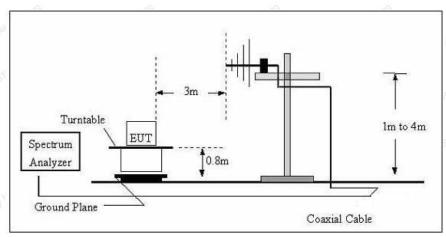
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4. Radiated Emissions

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 0.009~30MHz = 20log (15) + 40log (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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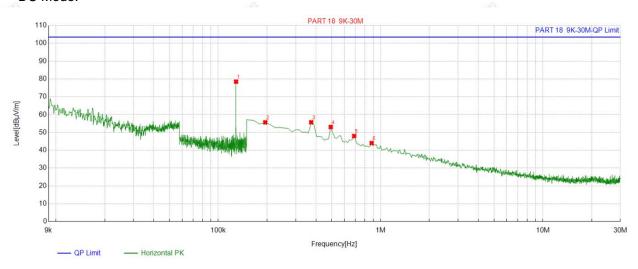
4.4. Test Result

PASS

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

For 9KHz - 30MHz

DC Mode:



QP Detector

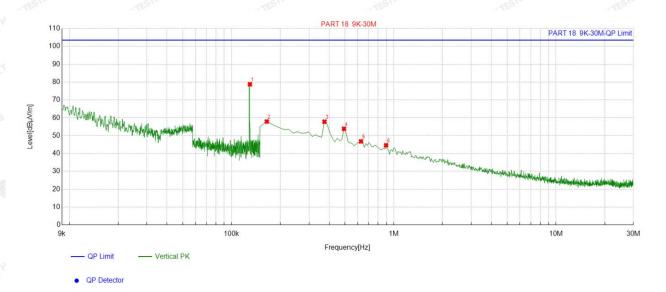
		NEED A.L.		N2397 A.r.		Allin, Are		
	Suspe	cted List						
NO		Freq.	Factor	Reading	Level	Limit	Margin	
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	
	1	0.128769	13.78	64.72	78.50	103.50	25.00	
	2	0.194797	13.67	42.00	55.67	103.50	47.83	
	3	0.373987	13.76	41.94	55.70	103.50	47.80	
	4	0.493447	13.73	39.32	53.05	103.50	50.45	
	5	0.687569	13.79	34.20	47.99	103.50	55.51	
	6	0.881691	14.11	29.94	44.05	103.50	59.45	

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

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For 9KHz - 30MHz

AC Mode:



411/10			"All Area							
Suspected List										
NO	Freq.	Factor	Reading	Level	Limit	Margin				
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]				
1	0.129756	13.78	65.00	78.78	103.50	24.72				
2	0.164932	13.73	44.21	57.94	103.50	45.56				
3	0.373987	13.76	44.06	57.82	103.50	45.68				
4	0.493447	13.73	40.11	53.84	103.50	49.66				
5	0.627839	13.74	33.07	46.81	103.50	56.69				
6	0.896623	14.12	30.48	44.60	103.50	58.90				

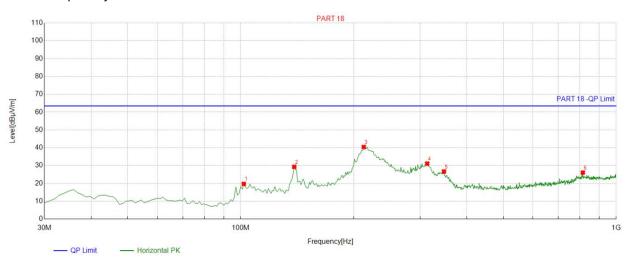
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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For 30MHz-1GHz

Antenna polarity: H



QP Detector

CIII		5/11/		-cTIV				C.T.II	
Suspe	cted List								
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	101.85185	-15.01	34.72	19.71	63.50	43.79	100	1	Horizontal
2	138.74874	-17.81	47.12	29.31	63.50	34.19	100	305	Horizontal
3	212.54254	-14.52	54.95	40.43	63.50	23.07	100	213	Horizontal
4	313.52352	-11.75	42.87	31.12	63.50	32.38	100	238	Horizontal
5	347.50750	-11.23	37.92	26.69	63.50	36.81	100	294	Horizontal
6	814.54454	-1.50	27.60	26.10	63.50	37.40	100	339	Horizontal

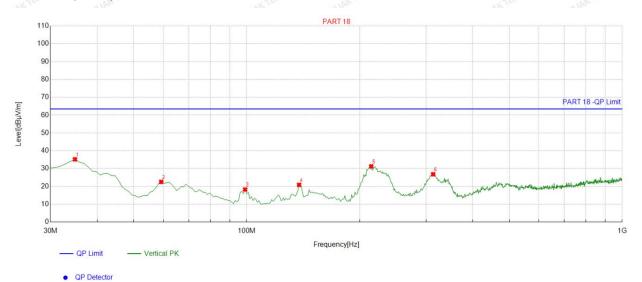
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level



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Antenna polarity: V



Suspe	Suspected List										
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	34.854855	-16.04	51.23	35.19	63.50	28.31	100	11	Vertical		
2	59.129129	-14.55	37.10	22.55	63.50	40.95	100	250	Vertical		
3	98.938939	-15.53	33.81	18.28	63.50	45.22	100	247	Vertical		
4	137.77777	-17.79	38.67	20.88	63.50	42.62	100	231	Vertical		
5	214.48448	-14.46	45.72	31.26	63.50	32.24	100	299	Vertical		
6	313.52352	-11.75	38.57	26.82	63.50	36.68	100	143	Vertical		

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

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5. Antenna Requirement

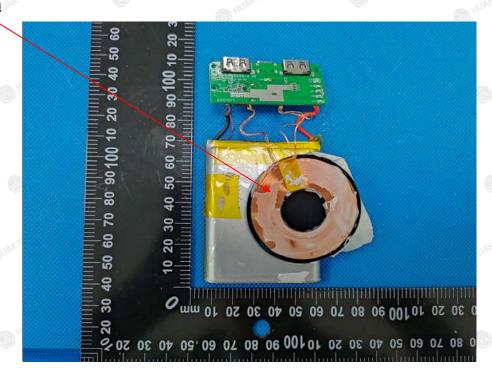
Refer to statement below for compliance.

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



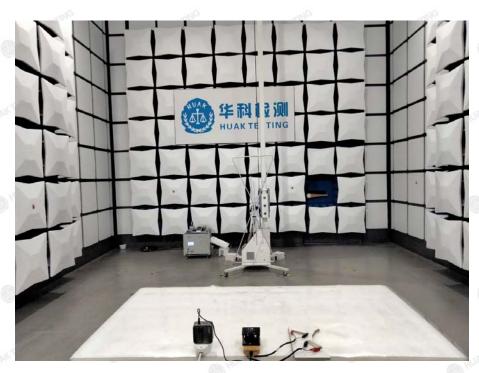
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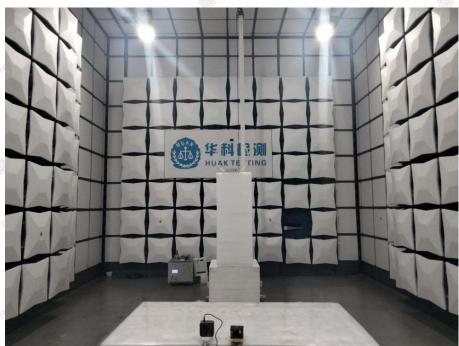


6. Photograph of Test

Radiated Emission

AC Mode:

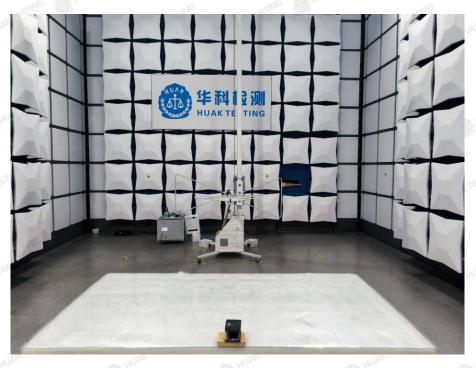


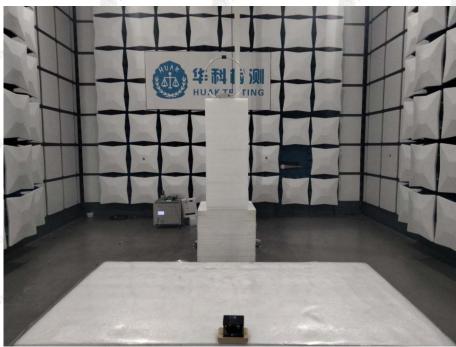


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DC Mode:





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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.

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

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