

FCC Test Report

Test Report
On Behalf of
RUNHOOD POWER INC.
For
Portable power station

Model No.: HE600 MINI-US

FCC ID: 2BB59-HE600MINI-US

Prepared For: RUNHOOD POWER INC.

3980-D Valley Blvd, Walnut, California, 91789, United States

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: Jul. 26, 2023 ~ Aug. 02, 2023

Date of Report: Aug. 02, 2023

Report Number: HK2307253251-1E



Test Result Certification

Report No.: HK2307253251-1E

Applicant's Name.....: RUNHOOD POWER INC.

Address.....: 3980-D Valley Blvd, Walnut, California, 91789, United States

Manufacture's Name.....: Shanghai Runhood Power Co., Ltd.

Room103, Bldg. 2, No. 218, Mingnan Rd, Songjiang Dist.,

Shanghai, P.R. China

Product Description

Trade Mark: N/A

Product Name......Portable power station

Model and/or Type Reference: HE600 MINI-US

Standards: FCC CFR 47 PART 18

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Date of Test

Date (s) of Performance of Tests Jul. 26, 2023 ~ Aug. 02, 2023

Date of Issue Aug. 02, 2023

Test Result.....: Pass

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

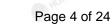
Authorized Signatory:

(Jason Zhou)

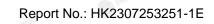




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HUAK TESTING



** Modified History **

Revi	ision	Description	n	Issued	Data	Remark
Revisi	ion 1.0	Initial Test Report	Aug. 02, 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	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:	Portable power station
Model Name:	HE600 MINI-US
Series Models:	N/A
Model Difference:	N/A N/A NAC NAC NAC NAC NAC NAC NAC NAC NAC NA
Trade Mark:	N/A MARKES!
FCC ID:	2BB59-HE600MINI-US
Antenna Type:	Coil Antenna
Antenna Gain:	0dBi www.resthia www.resthia www.resthia www.resthia
Operation Frequency:	112KHz~205KHz
Test Frequency:	132KHz
Number of Channels:	1 WESTING WESTING
Modulation Type:	ASK O
Power Source:	Input rating: Solar Panel: 15-23VDC 10A MPPT supported Adapter: 24VDC, 7.5A, 180W Max Car Charger: 12VDC, 10A, 120W Max Output rating: AC: 1*AC Output Pure Sine Wave 120V/60Hz, total 600 W (surge 1200 W) Max 2*USB-A QC3.0 28W Max (5V DC/3A, 9V DC/3A, 12V DC/2.4A) 1*USB-C PD100W Max (5V DC/3A, 9V DC/3A, 15V DC/3A, 20V DC/5A) 1*Car port: 12VDC 10A 120W Max Wireless Output: 5/10/15W Max Battery capacity: 324Wh, 21.6VDC, 15Ah
Power Rating:	Input rating: Solar Panel: 15-23VDC 10A MPPT supported Adapter: 24VDC, 7.5A, 180W Max Car Charger: 12VDC, 10A, 120W Max Output rating: AC: 1*AC Output Pure Sine Wave 120V/60Hz, total 600 W (surge 1200 W) Max 2*USB-A QC3.0 28W Max (5V DC/3A, 9V DC/3A, 12V DC/2.4A) 1*USB-C PD100W Max (5V DC/3A, 9V DC/3A, 15V DC/3A, 20V DC/5A) 1*Car port: 12VDC 10A 120W Max Wireless Output: 5/10/15W Max Battery capacity: 324Wh, 21.6VDC, 15Ah

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2.2. Carrier Frequency of Channels

Operation F	requency each of channel	HUARTE	HUAKTEST	HUAKTE
Channel	Frequency		9	
Middle CH	132KHz			

2.3. Operation of EUT during Testing

	Test		
Test Item	mode	Description	AKTESTING.
(I) HUM		THE HOLD	O HOW
	Mode 1	AC/DC Adapter+ EUT +Wireless load (Full Loa	ıd)
	TESTING		
Radiated &	Mode 2	AC/DC Adapter+ EUT +Wireless load (Half Loa	ad)
Conducted test	Mode 3	AC/DC Adapter+ EUT +Wireless load (Null Loa	ad)
cases	Mode 4	EUT +Wireless load (Full Load)	
	Mode 5	EUT +Wireless load (Half Load)	MAKTEST
0	Mode 6	EUT +Wireless load (Null Load)	(a) //

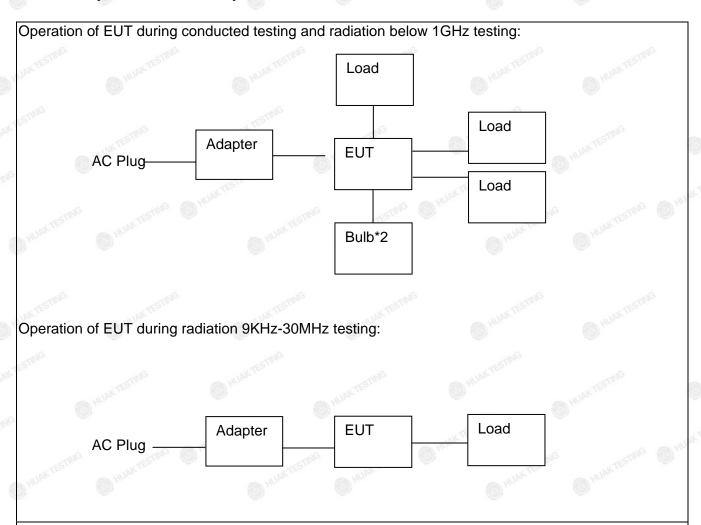
Note:

- 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	iviark ,		Model/Type No.	Specification	Note
1	Portable power station	N/A	HA-W08	N/A	EUT
2	Adapter	N/A	HKA18024075-7C	Input: AC100-240V, 50/60Hz, 2.5 USB Output: DC24V-7.5A,180W Max	Accessory
3	Bulb*2	N/A	N/A	AC220V, 200W	Peripheral
4	Load	YBZ	N/A	15W Max	Peripheral
5	Cement load	N/A	N/A	4 Ω	Peripheral
6	Cement load	N/A	N/A	1.2 Ω	Peripheral

Note:

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

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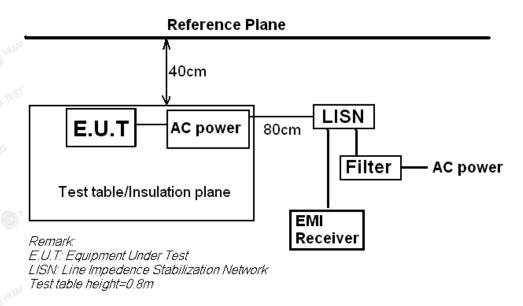


2.6. Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. 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.	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	

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)

	Maximum RF Line Voltage (dBμV)							
Frequency (MHz)	CLAS		CLASS B					
(WITZ)	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.

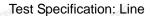
3.3. Test Procedure

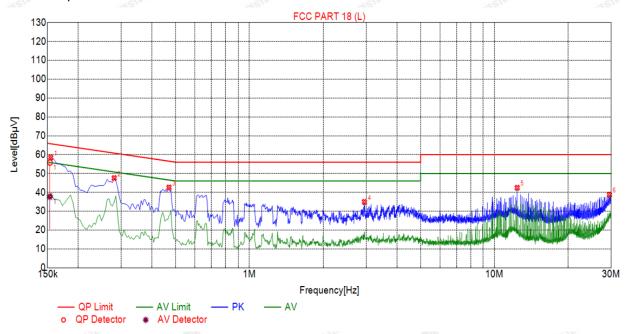
- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
- 2. Support equipment, if needed, was placed as per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





Suspected List

-								
NO.	Freq.	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре
1	0.1545	58.48	20.03	65.81	7.33	38.45	PK	L
2	0.2805	47.58	20.04	60.80	13.22	27.54	PK	L
3	0.4695	42.56	20.04	56.52	13.96	22.52	PK	L
4	2.9490	34.92	20.21	56.00	21.08	14.71	PK	L
5	12.3990	42.43	19.98	60.00	17.57	22.45	PK	L
6	29.5035	38.73	20.26	60.00	21.27	18.47	PK	L

	Final Data List												
Z00903	NO.	Freq. [MHz]	Correction factor[dB]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	QP Reading [dBµV]	AV Value [dBµV]	ΑV Limit [dBμV]	AV Margin [dB]	ΑV Reading [dBμV]	Туре	
	1	0.1533	20.03	55.79	65.82	10.03	35.76	37.71	55.82	18.11	17.68	L	

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

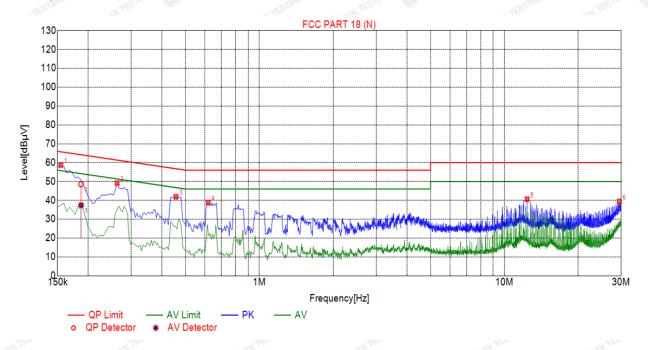
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Test Specification: Neutral



Sus	Suspected List														
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре							
1	0.1545	58.62	20.03	65.75	7.13	38.59	PK	N							
2	0.2625	49.12	20.03	61.35	12.23	29.09	PK	N							
3	0.4560	41.90	20.04	56.77	14.87	21.86	PK	N							
4	0.6180	38.80	20.05	56.00	17.20	18.75	PK	N							
5	12.3900	40.60	19.98	60.00	19.40	20.62	PK	N							
6	29.4495	39.40	20.26	60.00	20.60	19.14	PK	N							

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	0.1870	20.04	48.57	64.17	15.60	28.53	37.37	54.17	16.80	17.33	N		

Remark: Margin = Limit - Level

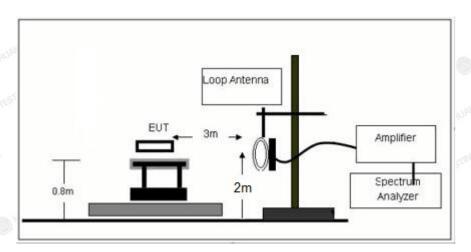
Correction factor = Cable lose + LISN insertion loss

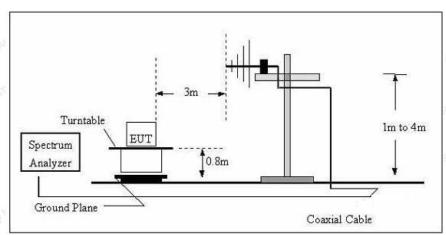
Level=Test receiver reading + correction factor



4. Radiated Emissions

4.1. Block Diagram of Test Setup





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4.2. Rules and Specifications

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)	by Field strength limit (uV/m)	
(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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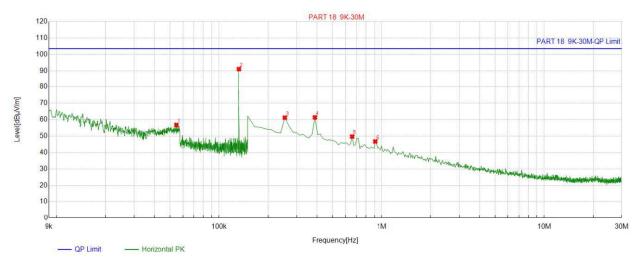
4.4. Test Result

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

Sı	Suspected List											
	5	Freq.	Factor	Reading	Level	Limit	Margin					
	10.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]					
	1	0.054777	13.94	42.81	56.75	103.50	46.75					
	2	0.132296	13.78	77.40	91.18	103.50	12.32					
	3	0.254527	13.68	47.52	61.20	103.50	42.30					
	4	0.388919	13.77	47.62	61.39	103.50	42.11					
	5	0.657704	13.76	35.96	49.72	103.50	53.78					
<	6	0.911556	14.13	32.61	46.74	103.50	56.76					

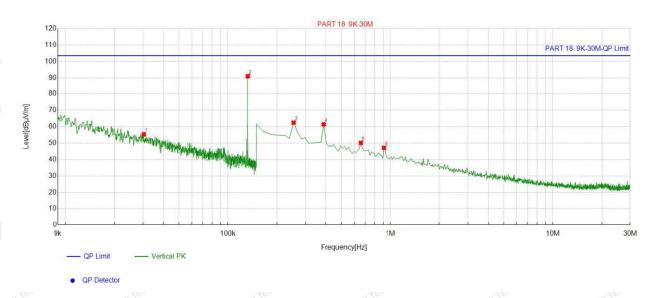
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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For 9KHz - 30MHz

AC Mode:



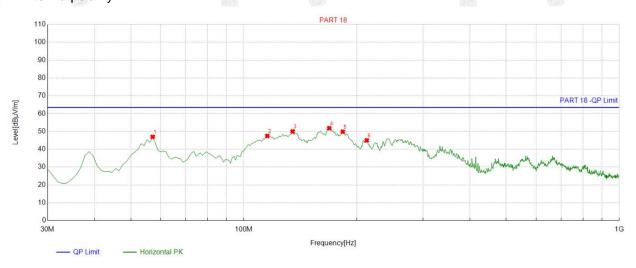
Á	Suspe	Suspected List											
4	NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]						
3	1	0.030302	14.72	40.60	55.32	103.50	48.18						
	2	0.132296	13.78	77.32	91.10	103.50	12.40						
	3	0.254527	13.68	48.77	62.45	103.50	41.05						
8	4	0.388919	13.77	47.64	61.41	103.50	42.09						
	5	0.657704	13.76	36.37	50.13	103.50	53.37						
	6	0.911556	14.13	32.99	47.12	103.50	56.38						

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For 30MHz-1GHz

Antenna polarity: H



QP Detector

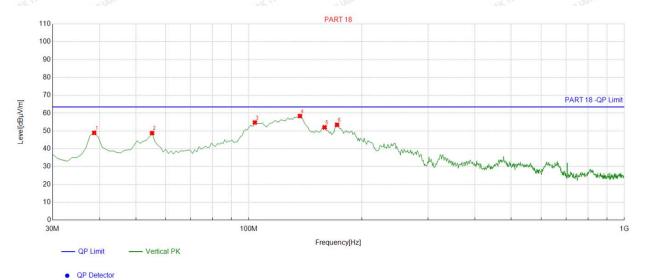
	_													
Suspe	Suspected List													
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity					
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]						
1	57.187187	-14.41	61.37	46.96	63.50	16.54	100	8	Horizontal					
2	115.44544	-15.02	62.49	47.47	63.50	16.03	100	259	Horizontal					
3	134.86486	-17.58	67.59	50.01	63.50	13.49	100	254	Horizontal					
4	168.84884	-17.09	68.90	51.81	63.50	11.69	100	123	Horizontal					
5	183.41341	-16.65	66.50	49.85	63.50	13.65	100	281	Horizontal					
6	212.54254	-14.52	59.50	44.98	63.50	18.52	100	259	Horizontal					

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





Antenna polarity: V



	•											
Suspected List												
NIC	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevit.			
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity			
1	38.738739	-15.54	64.48	48.94	63.50	14.56	100	349	Vertical			
2	55.245245	-14.32	63.10	48.78	63.50	14.72	100	308	Vertical			
3	103.79379	-14.93	69.68	54.75	63.50	8.75	100	341	Vertical			
4	136.80680	-17.69	76.08	58.39	63.50	5.11	100	299	Vertical			
5	159.13913	-17.21	69.23	52.02	63.50	11.48	100	336	Vertical			
6	171.76176	-16.91	70.34	53.43	63.50	10.07	100	349	Vertical			

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

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5. Antenna Requirement

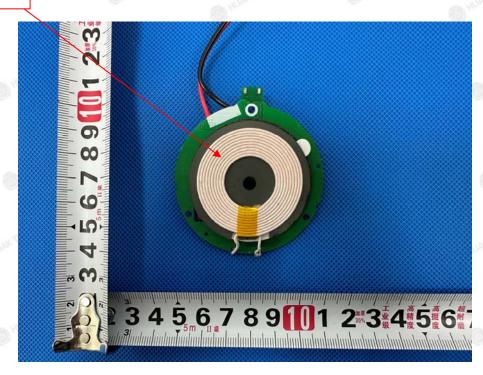
Refer to statement below for compliance.

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



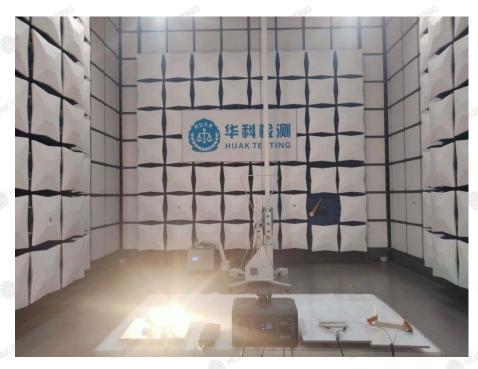
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

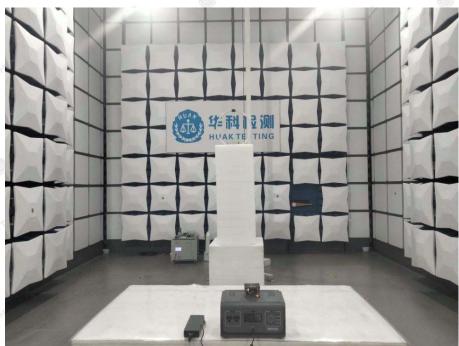


6. Photograph of Test

Radiated Emission

AC Mode:

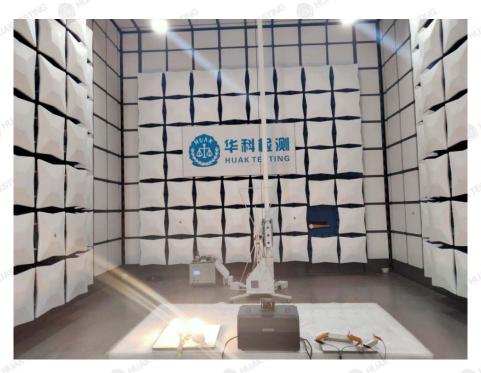


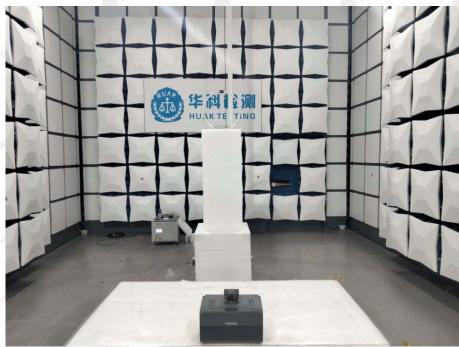


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DC Mode:







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-----