

RF EXPOSURE Test Report

Product: POWER BANK

Trade Mark: KB KBOD

Model Number: CHAR-11051

FCC ID: 2BEF7-CHAR-11051

Prepared for

CLICKWIN LLC.

530 S. Los Angeles St. Unit 2, Los Angeles, California 90013. United States

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd

Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China

Tel.: +86-755-2998 9321 Fax.: +86-755-2998 5110

Website: <http://www.sz-hongbiao.com>

Table of Contents

1	GENERAL DESCRIPTION	5
1.1	DESCRIPTION OF EUT.....	5
1.2	TEST MODE.....	5
1.3	TEST SETUP.....	5
1.4	ANCILLARY EQUIPMENT	5
2	TEST FACILITIES AND ACCREDITATIONS	6
2.1	TEST LABORATORY	6
2.2	ENVIRONMENTAL CONDITIONS.....	6
2.3	MEASUREMENT UNCERTAINTY	6
2.4	TEST SOFTWARE.....	6
3	LIST OF TEST EQUIPMENT	7
4	RF EXPOSURE	8
4.1	MAXIMUM PERMISSIBLE EXPOSURE.....	8
4.1.1.	<i>Limit</i>	8
4.1.2.	<i>Test Procedures</i>	8
4.1.3.	<i>Test Setup</i>	8
4.1.4.	<i>Equipment Approval Considerations item 5 b) of KDB 680106 D01 Wireless</i>	9
4.1.5.	<i>Test Result</i>	9
5	PHOTOGRAPHS OF THE TEST SETUP.....	11

TEST RESULT CERTIFICATION

Applicant's Name..... : CLICKWIN LLC.
Address : 530 S. Los Angeles St. Unit 2, Los Angeles, California 90013.
United States

Manufacturer's Name : Dongguan Xiangzhiqing Electronics Co., Ltd.
Address : Building 8, 319 Shipai section, Dongyuan Avenue, Shipai,
Dongguan, Guangdong province

Product description

Product name : POWER BANK
Model Number : CHAR-11051

Standards..... : FCC CFR 47 PART 1 , 1.1310

Test procedure..... : KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test..... :

Date (s) of performance of tests..... : Mar. 07, 2024~Mar. 12, 2024

Test Result..... : **Pass**

Testing Engineer : Zoe su
(Z o e S u)

Technical Manager : Ming Liu
(Ming Liu)

Authorized Signatory : Leo Su
(L e o S u)

1 General Description

1.1 Description of EUT

Product name:	POWER BANK
Model name:	CHAR-11051
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	110.5kHz–205kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Rating:	Input: 5V=2A (Micro) Wireless Charging Output: 10W
Battery:	18.5Wh (5000mAh, 3.7V)
Power supply:	N/A
Adapter information:	N/A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	Wireless Output: 10W(Battery Status: <1%, <50%,100%)
Note: All modes have been tested and only the worst mode Wireless Output: 10W(Battery Status: <1%) data is represented in the report.	

1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Adapter	TA65B	2S36003438 PL97T09582	Nanjing Bolande Electronic Technology Co., Ltd
Phone	iPhone 12 Pro	DNPF9UL20 D9L	Apple Inc.

2 Test Facilities and Accreditations

2.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

2.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
E-field	± 2.5 dB	
H-field	± 4.2 dB	
Temperature	± 1 degree	
Humidity	± 5 %	

2.4 Test Software

Software name	Manufacturer	Model	Version
EHP200-TS	Narda	EHP-200A	Rel 1.95

3 List of Test Equipment

Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	/	Magnetic Amplitude and Gradient Probe System	Schmid & Partner Engineering AG	MAGPy V2.0	3061	2023-04-13	2024-04-12

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4 RF Exposure

4.1 Maximum Permissible Exposure

4.1.1. Limit

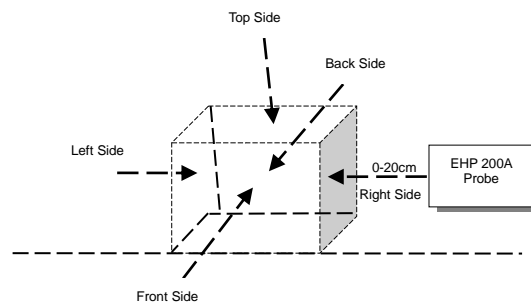
Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm ²)	Averaging time(minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0 6	6
300-1500			f/300	6
1500-100000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100000			1	30

f = frequency in MHz * = Plane-wave equivalent power density

4.1.2. Test Procedures

- a. The RF exposure test was performed in anechoic chamber.
- b. Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 20 cm.
- c. The highest emission level was recorded and compared with limit.
- d. The EUT was measured according to the dictates of TCB Workshop "41-Part-18-&-Wireless-Power-Transfer - April 27, 2022"

4.1.3. Test Setup



4.1.4. Equipment Approval Considerations item 5 b) of KDB 680106 D01 Wireless Power Transfer v04

Requirement	Device
1. Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: Operating Frequency: 110.5 kHz–205 kHz
2. Output power from each primary coil is less than or equal to 15 watts.	Yes. The maximum output power is: Wireless Output: 10W
3. The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes. EUT has a source primary coil.
4. Client device is placed directly in contact with the transmitter.	Yes. The client device is placed directly in contact with the transmitter.
5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	No, EUT includes portable conditions.
6. The aggregate H-field strengths anywhere at or beyond 20 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	No. See the test result in item 4.1.5

4.1.5. Test Result

For portable exposure condition:

Operating modes with client device (1 %, 50%, 99% battery status of client device) have been test, only show the data of worst case of 1% battery status of client device.

H-field measurements taken every 2 cm (starting as close to 20 cm as possible) on each edge/top surface of the host/client pair were also evaluated for portable use conditions. The report reflects data for the worst 0 cm test distance mode only.

Test condition 1: Mode 1 operating mode with client device (1 % battery status of client device).

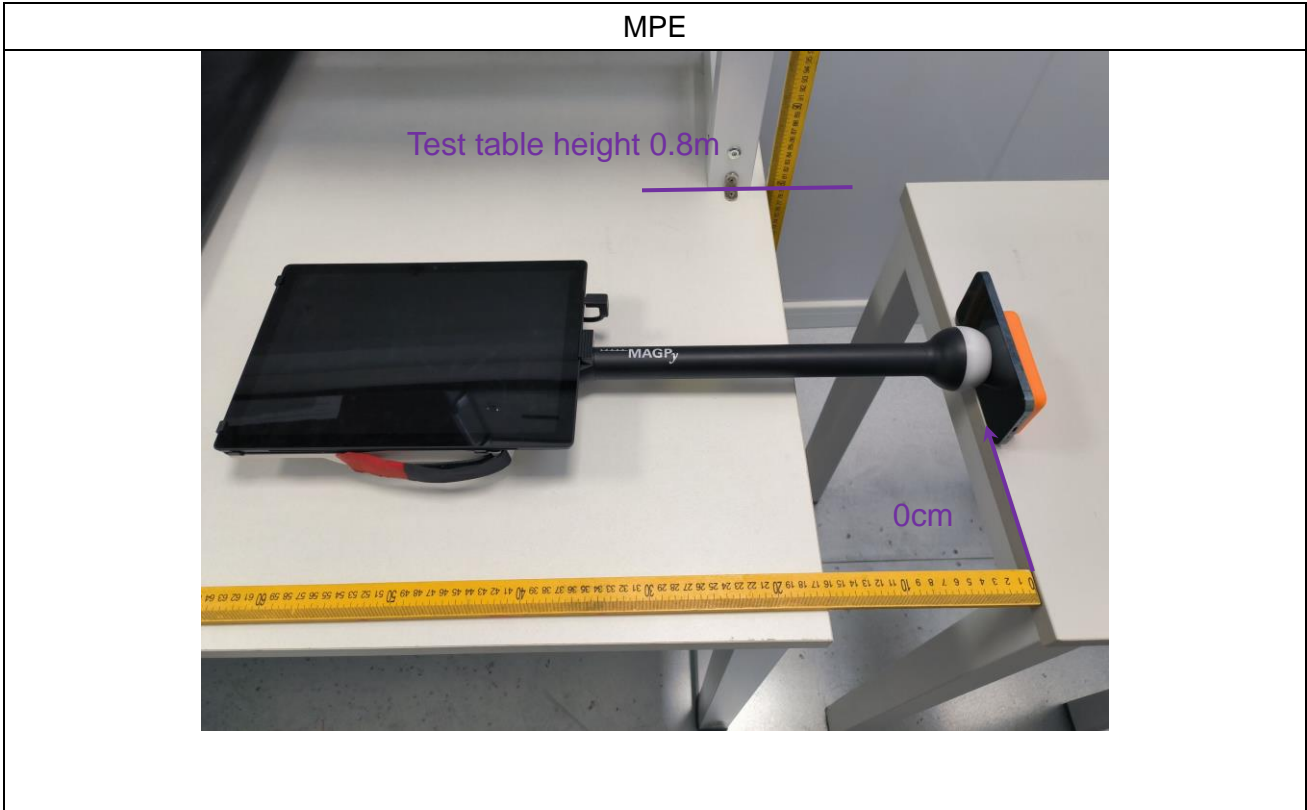
Measurement results directly tested using MAGPy.

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	0	44.0	0.62
<1%	Left	0	52.1	0.61
<1%	Right	0	14.2	0.50
<1%	Front	0	12.6	0.53
<1%	Back	0	21.2	0.51
<1%	Bottom	0	22.5	0.57
Limit			614	1.63
Margin Limit (%)			8.49%	38.04%

When setting MAGPy to select compliance location as probe tip, the measured value is extrapolated to 0mm as the result.

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	0	45.9	0.75
<1%	Left	0	54.6	0.71
<1%	Right	0	16.7	0.53
<1%	Front	0	15.6	0.59
<1%	Back	0	23.8	0.56
<1%	Bottom	0	24.2	0.62
Limit			614	1.63
Margin Limit (%)			8.89%	46.01%

5 Photographs of the Test Setup



***** END OF REPORT *****