

## RF EXPOSURE REPORT

Product Name: 2-in-1 Mini Powerbank  
FCC ID: 2BAOI-K101  
Trademark: N/A  
Model Number: K101  
Prepared For: Shenzhen Kaigao Electronics Co., Ltd.  
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Manufacturer: Shenzhen Kaigao Electronics Co., Ltd.  
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Sample Received Date: Mar. 17, 2023  
Sample tested Date: Mar. 17, 2023 to Mar. 23, 2023  
Issue Date: Mar. 23, 2023  
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310, 47 CFR§2.1091; KDB 680106 D01 RF Exposure Wireless Charging App v03r01  
Test Results: PASS  
Remark: This is wireless charger EMF report.

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Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "\*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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## 1. GENERAL INFORMATION

### 1.1. Independent Operation Mode

The basic operation mode is:

1.1.1. wireless charger power: 15W

### 1.2. Test Supporting System

Adapter

Description : Adapter

Model No. : HP18A-0902000-AU

Power Input : AC100-240V~ 1.0A 50/60Hz

Output: 9V $\overline{\text{---}}$  2.0A

DC Line : Unshielded, Detachable 1.2m



## 2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

### 2.1. For conducted emission at the mains terminals test

Item	Equipment	Brand	Model No.	Serial No.	Last calibration	Calibrated until
1	EMF TESTER	Wavecontrol	SMP160	19SN0989	2022.08.20	2023.08.29

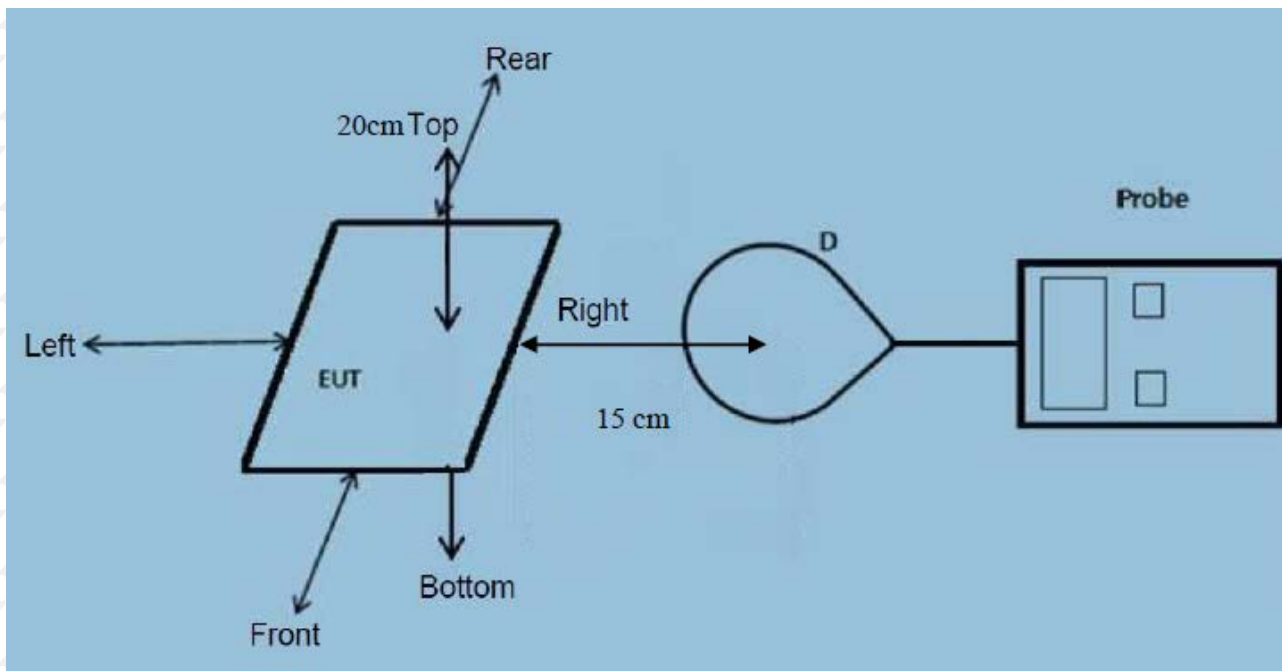
### 3. METHOD OF MEASUREMENT

#### 3. 1.Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB680106 D01: RF Exposure Wireless Charging Apps v 03r01.

## 4. TEST RESULT

### 4.1. Conducted Emission at the Mains Terminals Test



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

#### Test Procedure:

- The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- The turn table was rotated 360d degree to search of highest strength.
- The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
- The EUT were measured according to the dictates of KDB 680106v03r01.



#### 4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 V03R01

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 300kHz-350kHz

2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 15000mW.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

Yes, 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, submit a KDB inquiry to get test guideline and fully follow the KDB inquiry guideline.

6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, the EUT field strength levels are less 50% x MPE limit.

#### 4.3. E and H field Strength

The result:

H-Filed Strength at 20 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.16	0.16	0.17	0.18	1.63

H-Filed Strength at 20 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.17	1.63

H-Filed Strength at 18 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.17	0.18	0.18	0.19	1.63

H-Filed Strength at 18 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.18	1.63

H-Filed Strength at 16 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.25	0.25	0.26	0.26	1.63

H-Filed Strength at 16 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.26	1.63



## H-Filed Strength at 14 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.35	0.35	0.37	0.37	1.63

## H-Filed Strength at 14 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.37	1.63

## H-Filed Strength at 12 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.39	0.40	0.40	0.41	1.63

## H-Filed Strength at 12 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.40	1.63

## H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.46	0.46	0.46	0.47	1.63

## H-Filed Strength at 10 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.46	1.63

## H-Filed Strength at 8 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.50	0.49	0.50	0.50	1.63

## H-Filed Strength at 8 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.50	1.63

## H-Filed Strength at 6 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.55	0.54	0.54	0.55	1.63

## H-Filed Strength at 6 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.55	1.63

## H-Filed Strength at 4 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.59	0.58	0.58	0.58	1.63

## H-Filed Strength at 4 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.58	1.63

## H-Filed Strength at 2 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.64	0.65	0.66	0.66	1.63

## H-Filed Strength at 2 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.65	1.63

## H-Filed Strength at 0 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Limits (A/m)
0.300-0.350	0.68	0.68	0.69	0.69	1.63

## H-Filed Strength at 0 cm from the top of the EUT (A/m)

Frequency Range (MHz)	Test Position E	Limits (A/m)
0.300-0.350	0.69	1.63



## 5.SETUP PHOTOGRAPHS





\*\*\*\*\*THE END\*\*\*\*\*