

# FCC MPE TEST REPORT

**FCC ID: 2BDH4-15290**

**Sample:** Nowire Desk Mat

**Trade Mark:** N/A

**Main Model:** Recycled NoWire Deskmats

**Additional Model:** N/A

**Report No.:** UNIA23110616ER-62

## Prepared for

HANDSTANDS PROMO LLC

1770 SOUTH 5350 WEST SUITE 100, SALT LAKE CITY Utah  
84104 United States

## Prepared by

Shenzhen United Testing Technology Co., Ltd.

D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community,  
Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

## TEST RESULT CERTIFICATION

**Applicant**.....: HANDSTANDS PROMO LLC  
**Address**.....: 1770 SOUTH 5350 WEST SUITE 100,SALT LAKE CITY Utah  
84104 United States

**Manufacturer** .....: HANDSTANDS PROMO LLC  
**Address**.....: 1770 SOUTH 5350 WEST SUITE 100,SALT LAKE CITY Utah  
84104 United States

### Product description

**Product**.....: Nowire Desk Mat  
**Trade Mark**.....: N/A  
**Model Name**.....: Recycled NoWire Deskmat

**Standards** .....: FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

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

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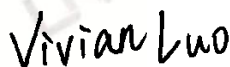
**Date of Test**..... :

Date (s) of performance of tests ..... : Nov. 06, 2023 ~ Nov. 17, 2023

Date of Issue ..... : Nov. 20, 2023

Test Result ..... : Pass

Prepared by:



Vivian Luo/Editor

Reviewer:



Kelly Cheng/Supervisor

Approved & Authorized Signer:



Liuze/Manager

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## 1 TEST SUMMARY

### 1.1 TEST PROCEDURES AND RESULTS

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

| FCC CFR 47   |                                   |        |        |
|--|-----------------------------------|--------|--------|
| Standard Section                                       | Test Item                         | Result | Remark |
| FCC CFR 47 part1,<br>1.1310 KDB680106<br>D01 v03(3)(3) | Magnetic Field Strength (H) (A/m) | PASS   | --     |

Compliant with KDB680106 D01 RF Exposure Wireless Charging Apps v03 section 5, b:

- Power transfer frequency is less than 1MHz.  
Yes, the working frequency is: 110-205kHz
- Output power from each primary coil is less than or equal to 15 watts.  
Yes, the maximum output power is 15 watts.
- 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, the transfer system includes only single primary coil.
- Client device is placed directly in contact with the transmitter.  
Yes, client device is placed directly in contact with the transmitter.
- Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).  
Yes, EUT is for mobile exposure conditions only.
- 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, EUT h-field strengths levels are less than 50% of the MPE limit.

## 1.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.  
Address : D101&D401, No. 107, Kaicheng High-Tech Park, Taoyuan Community,  
Dalang Sub-District, Longhua District, Shenzhen, Guangdong, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

A2LA Certificate Number: 4747.01

The EMC Laboratory has been accredited by A2LA, and in compliance with ISO/IEC 17025:2017 General Requirements for testing Laboratories.

FCC Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission.

IC Registration Number: 31584

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada.



### 1.3 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 %.

| No. | Item                              | Uncertainty             |
|-----|-----------------------------------|-------------------------|
| 1   | Radiated Measurement (9KHz-30MHz) | $\pm 2.50\text{dB}$     |
| 2   | Temperature                       | $\pm 0.5^\circ\text{C}$ |
| 3   | Humidity                          | $\pm 2\%$               |

### 1.4 ENVIRONMENTAL CONDITIONS

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

|                    |              |
|--------------------|--------------|
| Temperature:       | 15~35 °C     |
| Relative Humidity: | 30~60 %      |
| Air Pressure:      | 950~1050 hPa |

## 2 GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                      |                          |
|----------------------|--------------------------|
| Product:             | Nowire Desk Mat          |
| Trade Mark:          | N/A                      |
| Main Model:          | Recycled NoWire Deskmats |
| Additional Model:    | N/A                      |
| Model Difference:    | N/A                      |
| FCC ID:              | 2BDH4-15290              |
| Operation Frequency: | 110-205kHz               |
| Number of Channels:  | 1CH                      |
| Modulation Type:     | ASK                      |
| Antenna Type:        | Coil Antenna             |
| Antenna Gain:        | 0dBi                     |
| Battery:             | N/A                      |
| Adapter:             | N/A                      |
| Power Source:        | DC 9V or 12V by adapter  |

## 2.2 CARRIER FREQUENCY OF CHANNELS

| Channel List |                 |
|--------------|-----------------|
| Channel      | Frequency (KHz) |
| 01           | 116.2           |

## 2.3 TEST MODE

| NO.  | TEST MODE DESCRIPTION                                  |
|--|--|
| 1  | Wireless charging Mode(Full load)(Connect to adapter)  |
| 2  | Wireless charging Mode(Half load) (Connect to adapter) |
| 3  | Wireless charging Mode(Null load) (Connect to adapter) |
| Note: The mode 1 was the worst case and only the data of the worst case record in this report. |  |

## 2.4 TEST INSTRUMENTS

| Description           | Brand     | Model No. | Frequency Range | Calibrated Until |
|-----------------------|-----------|-----------|-----------------|------------------|
| Broadband Field Meter | NARDA     | NBM-550   | —               | Jan. 01, 2024    |
| Magnetic Field Meter  | NARDA     | ELT-400   | 1–400kHz        | Jan. 01, 2024    |
| Magnetic Probe        | NARDA     | HF-3061   | 300kHz–30MHz    | Jan. 01, 2024    |
| Magnetic Probe        | NARDA     | HF-0191   | 27–1000MHz      | Jan. 01, 2024    |
| Broadband Field Meter | NARDA     | NBM-550   | —               | Jan. 01, 2024    |
| Electric Field Meter  | COMBINOVA | EFM 200   | 5Hz–400kHz      | Jan. 01, 2024    |
| E-Field Probe         | NARDA     | EF-0391   | 100kHz–3GHz     | Jan. 01, 2024    |
| E-Field Probe         | NARDA     | EF-6091   | 100MHz–60GHz    | Jan. 01, 2024    |

NOTE: The calibration interval of the above test instruments is 12 month.



### 3 MAXIMUM PERMISSIBLE EXPOSURE

#### 3.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

| Limits for Occupational / Controlled Exposure         |                                   |                                   |  |  |
|---|-----------------------------------|-----------------------------------|--|--|
| Frequency Range (MHz)                                 | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
| 0.3-3.0   | 614                               | 1.63                              | (100)*                                   | 6  |
| 3.0-30  | 1842 / f                          | 4.89 / f                          | (900 / f)*                               | 6  |
| 30-300  | 61.4                              | 0.163                             | 1.0                                      | 6  |
| 300-1500  |                                   |                                   | F/300                                    | 6  |
| 1500-100,000  |                                   |                                   | 5  | 6  |
| Limits for General Population / Uncontrolled Exposure |                                   |                                   |  |  |
| Frequency Range (MHz)                                 | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
| 0.3-1.34  | 614                               | 1.63                              | (100)*                                   | 30   |
| 1.34-30   | 824/f                             | 2.19/f                            | (180 / f)*                               | 30   |
| 30-300  | 27.5                              | 0.073                             | 0.2                                      | 30   |
| 300-1500  |                                   |                                   | F/1500                                   | 30   |
| 1500-100,000  |                                   |                                   | 1  | 30   |

Note 1: f = frequency in MHz ; \*Plane-wave equivalent power density.

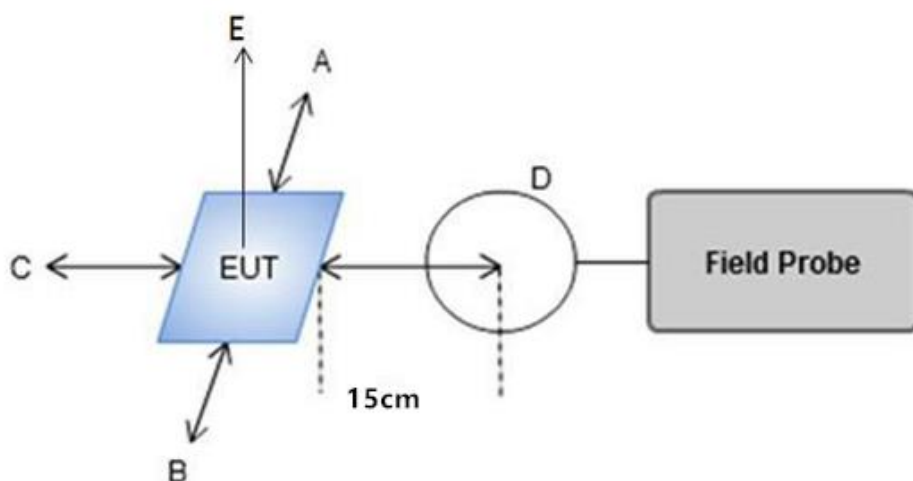
2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

### 3.2 TEST PROCEDURE

For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be at 15 cm surrounding the device and 20 cm above the top surface. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair at 15 cm surrounding the device and 20 cm above the top surface.

### 3.3 TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT(20 cm measure distance)

### 3.4 RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

For Full load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

| Filed Strength | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (A/m) | Limits Test (A/m) |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| uT             | 0.12            | 0.15            | 0.13            | 0.14            | 0.12            | /                     | /                 |
| A/m            | 0.10            | 0.12            | 0.10            | 0.11            | 0.10            | 0.815                 | 1.63              |

Note: Calculation:  $A/m = uT/1.25$

For Half load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

| Filed Strength | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (A/m) | Limits Test (A/m) |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| uT             | 0.16            | 0.18            | 0.15            | 0.16            | 0.17            | /                     | /                 |
| A/m            | 0.13            | 0.14            | 0.12            | 0.13            | 0.14            | 0.815                 | 1.63              |

Note: Calculation:  $A/m = uT/1.25$

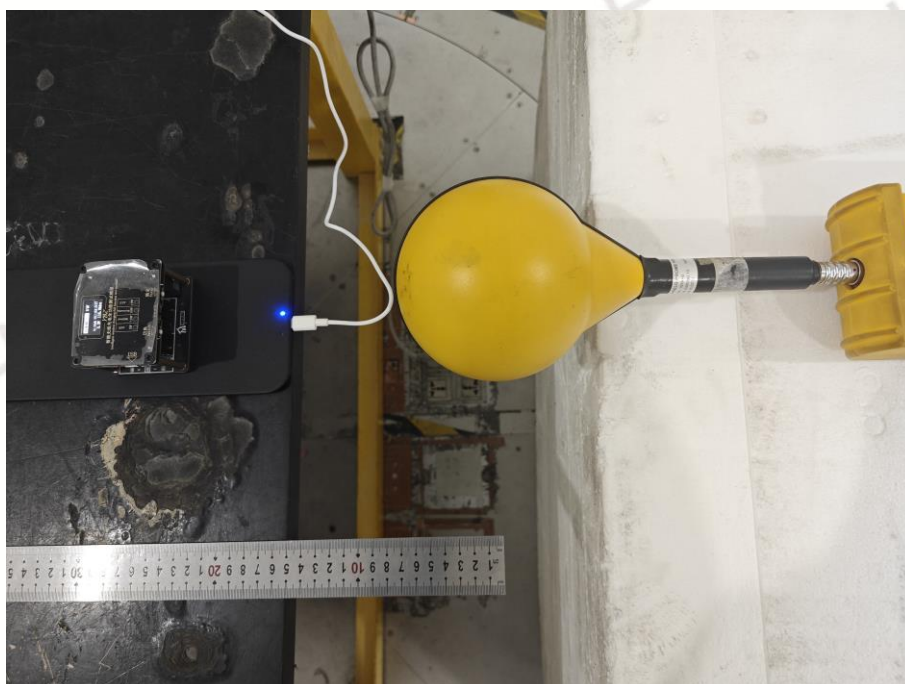
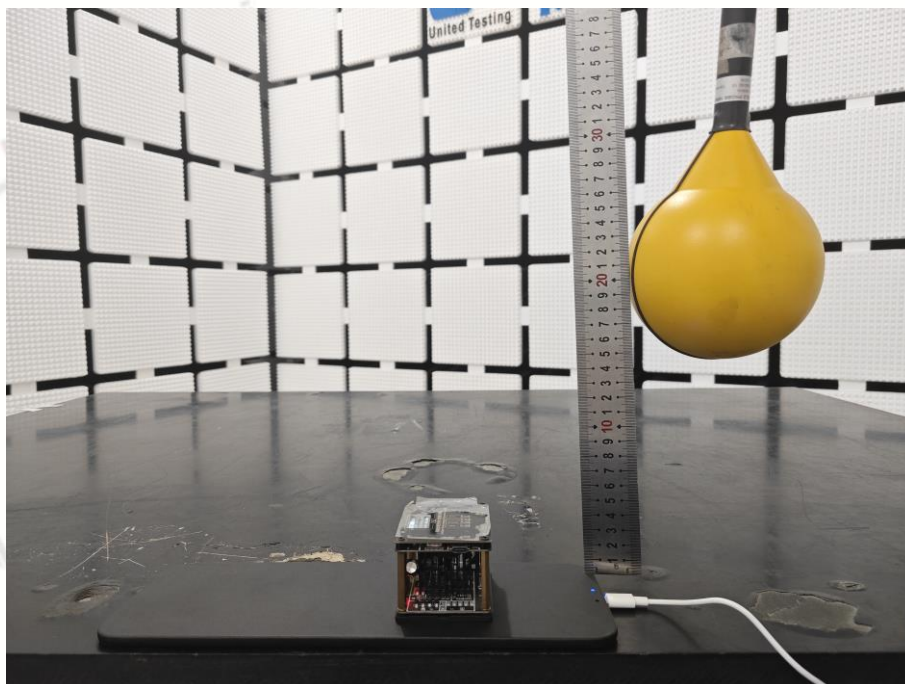
For No load mode:

H-Filed Strength at 15 cm surrounding the device and 20 cm above the top surface (A/m)

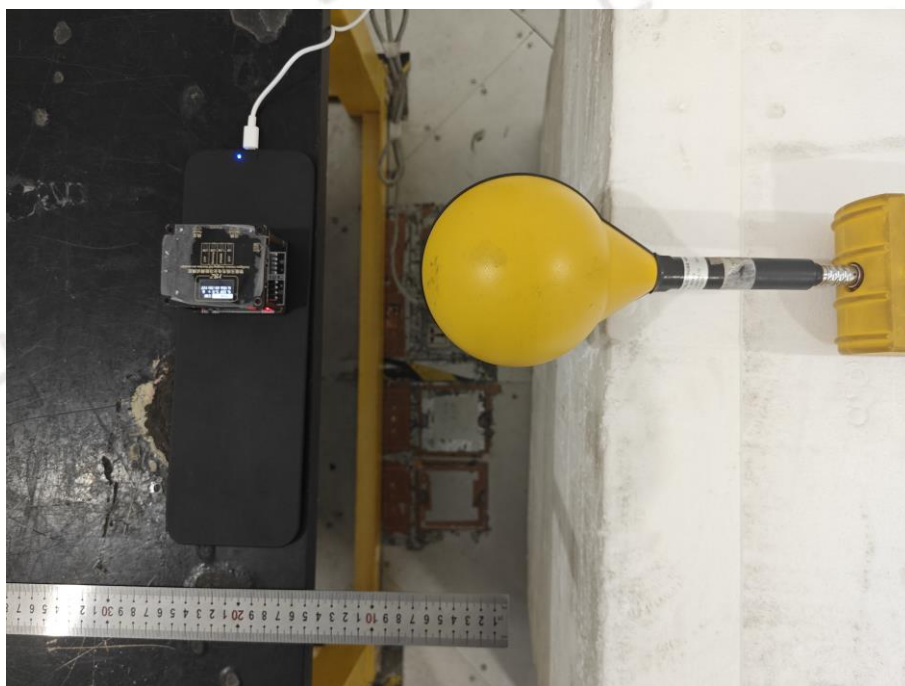
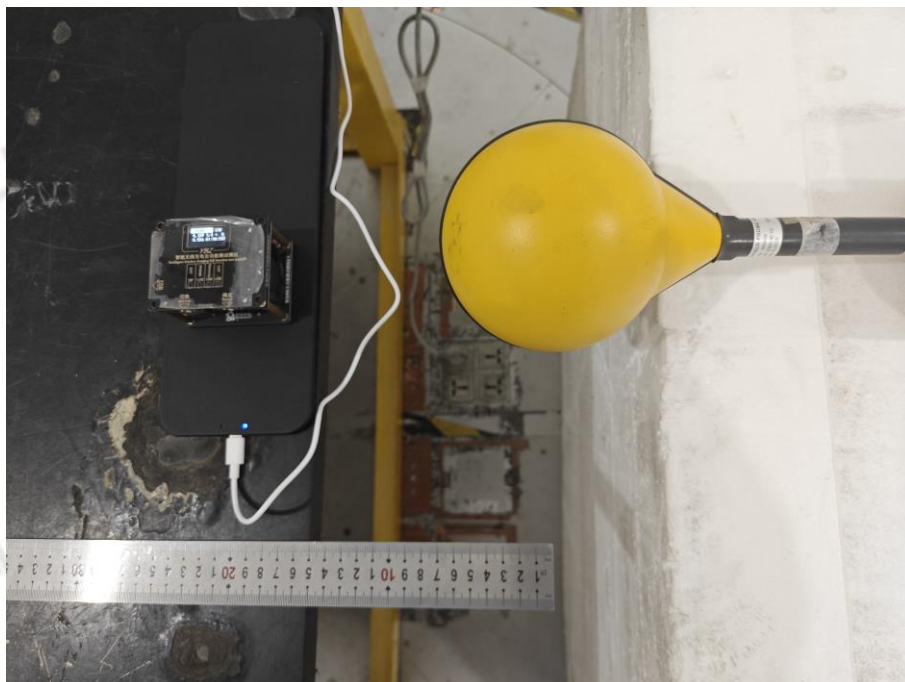
| Filed Strength | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (A/m) | Limits Test (A/m) |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| uT             | 0.15            | 0.17            | 0.19            | 0.22            | 0.18            | /                     | /                 |
| A/m            | 0.12            | 0.14            | 0.15            | 0.18            | 0.14            | 0.815                 | 1.63              |

Note: Calculation:  $A/m = uT/1.25$

### 3.5 TEST PHOTO











\*\*\*End of Report\*\*