

# Guangdong Fuxin Technology Co.,Ltd.

## TEST REPORT

**SCOPE OF WORK**

EMC TESTING-LRB-350B

**REPORT NUMBER**

220630121GZU-002

**ISSUE DATE**

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**TEST REPORT**

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Intertek Report No: 220630121GZU-002  
FCC ID: 2A8PKLRB350B

**Test standards**

**47 CFR PART 1, Subpart I, Section 1.1310**  
**KDB 680106 D01 RF Exposure Wireless Charging App v03r01**

**Sample Description**

Product : Thermoelectric Heating/ Cooling Coasters  
Model No. : LRB-350B  
Electrical Rating : Adapter: 100~240Vac 50/60Hz  
Coasters: DC 12V  
Serial No. : Not Labeled  
Date Received : 30 June 2022  
Date Test Conducted : 25 October 2022

Prepared and Checked By



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**TEST REPORT****1.0 TEST RESULT SUMMARY**

Classification of EUT: Class B

| Test Item | Standard                                 | Result |
|-----------|--|--------|
| EMF       | 47 CFR PART 1, Subpart I, Section 1.1310 | PASS   |

## Remark:

When determining the test results, measurement uncertainty of tests has been considered.

## TEST REPORT

### 2.0 General Description

#### 2.1 Product Description

Operating Frequency 110-156KHz  
Type of Modulation: ASK  
Antenna Type Inductive loop coil antenna  
Power Supply: 100~240Vac 50/60Hz  
Power cord: wires unscreened cable

#### 2.2 Test Facility

Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China

A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

#### 2.3 EUT Exercising Software

N/A

#### 2.4 Special Accessories

N/A

#### 2.5 Equipment Modification

Any modifications installed previous to testing by Guangdong Fuxin Technology Co.,Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

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### 2.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Support Equipment:

| Description | Manufacturer | Model No.       | SN/Version | Supplied by |
|-------------|--------------|-----------------|------------|-------------|
| WPT client  | --           | 5W,7.5W,10W,15W | 110-156K   | Customer    |

Cable

| Description   | Model No. | Connector type | Cable length/type | Supplied by |
|---------------|-----------|----------------|-------------------|-------------|
| Antenna cable | RF-01     | SMA            | 0.2 m(shielded)   | Intertek    |
| Adapter Cable | --        | AUX            | 1.0 m(shielded)   | Intertek    |

**Remark:** WPT client was one of typical client devices, it's selected such that the EUT was fully exercised at maximum power from its transmitter. It will not be sold together.

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above evaluated respectively

| Pretest mode  | Description                    |  |
|---------------|--------------------------------|--|
| Standby Mode  | kept transmitting continuously |  |
| Charging Mode | CH: Low                        | WPT client is charging at 1% battery power, 50% and 99% battery power respectively, keep transmitting continuously |
|               | CH: Middle                     |  |
|               | CH: High                       |  |

The product comes with two adapters, two fans.

Adapters 1 model: DZ048BHL120400U; Adapters 2 model: HCX4801-1204000U;

Fan 1 model: TX7015M12S; Fan 2 model: FD7015SLB.

The report presents only the worst data, respectively for the adapter model DZ048BHL120400U and the fan model TX7015M12S.

## TEST REPORT

### 3.0 EMF TEST

#### 3.1 Standard Requirement

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 limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.1m normally can be maintained between the user and the device.

#### (a) 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 Times  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   |
| 1500-100000           | --                                | --                                | 5                                      | 6   |

#### (b) 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 Times  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  |
| 1500-100000           | --                                | --                                | 1.0                                    | 30  |

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

## TEST REPORT

### 3.2 Test Data

Input Voltage: 120V/60Hz

Ambient Condition: 24°C, 50%RH

Test distance: 15 cm surrounding the device, and 20 cm away from the surface from the coil.

H-Field Strength:

| Test Position | Probe Measure Result (A/m)     |                                 |                                 | 50% Limit (A/m) | Limit (A/m) |
|---------------|--------------------------------|---------------------------------|---------------------------------|-----------------|-------------|
|               | WPT client in 1% battery power | WPT client in 50% battery power | WPT client in 99% battery power |                 |             |
| Side 1        | 0.023                          | 0.031                           | 0.034                           | 0.815           | 1.63        |
| Side 2        | 0.040                          | 0.034                           | 0.035                           | 0.815           | 1.63        |
| Side 3        | 0.035                          | 0.031                           | 0.039                           | 0.815           | 1.63        |
| Side 4        | 0.038                          | 0.036                           | 0.043                           | 0.815           | 1.63        |
| Top           | 0.041                          | 0.039                           | 0.035                           | 0.815           | 1.63        |

### 4.0 Test Equipment List

| Equip. No. | Equipment             | Model   | Manufacturer | Cal. date | Due date  |
|------------|-----------------------|---------|--------------|-----------|-----------|
| EM007-03   | Exposure Level Tester | ELT-400 | NARDA        | 2022/2/28 | 2023/2/28 |

\*\*\*\*\*End of the test report\*\*\*\*\*