

# FCC MPE TEST REPORT

**FCC ID: 2A63VH-L01**

**Product Name:** Table lamps

**Trade Mark:** N/A

**Main Model:** H-L01

**Additional Model:** H-L02

**Report No.:** UNIA22042918ER-62

## **Prepared for**

Shenzhen Hope Valley Electronics Co., Ltd.

20G, Building 6, Weipeng, No.1, Zhenzhong Road, Fuqiang, Huaqiang  
North, Futian, Shenzhen, China

## **Prepared by**

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## TEST RESULT CERTIFICATION

**Applicant** .....: Shenzhen Hope Valley Electronics Co., Ltd.  
**Address** .....: 20G, Building 6, Weipeng, No.1, Zhenzhong Road, Fuqiang,  
Huaqiang North, Futian, Shenzhen, China  
**Manufacturer** .....: Cover Industrial Co.,Ltd  
**Address** .....: Floor 2, Building 29, chentian Industrial Zone, chentian com,  
ShenZhen, Guangdong Province, 518000

### Product description

**Product Name** .....: Table lamps  
**Trade Mark** .....: N/A  
**Model Name** .....: H-L01, H-L02

**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** .....: Apr. 29, 2022 ~ May. 23, 2022

**Date of Issue** .....: May. 24, 2022

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

Prepared by:



\_\_\_\_\_  
Jackson Fang/Editor

Reviewer:



\_\_\_\_\_  
Kahn yang/Supervisor

Approved & Authorized Signer:



\_\_\_\_\_  
Liuze/Manager

Note: For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

| Channel List |                |         |                |
|--------------|----------------|---------|----------------|
| Channel      | Frequency(KHz) | Channel | Frequency(MHz) |
| 01           | 125            |         |                |
|              |                |         |                |
|              |                |         |                |
|              |                |         |                |

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

## 1. SUMMARY OF TEST RESULTS

### 1.1 Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

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

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

a) Power transfer frequency is less than 1MHz.

Yes, the working frequency is 125kHz.

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

Yes, the maximum output power is 15 watts.

c) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

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

d) Client device is placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

e) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, EUT is for mobile exposure conditions only.

f) 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 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                          | $\pm 2\%$               |

## 1.3 Test Instruments

| Description           | Brand     | Model No. | Frequency Range | Calibrated Until |
|-----------------------|-----------|-----------|-----------------|------------------|
| Broadband Field Meter | NARDA     | NBM-550   | —               | Jan. 01, 2023    |
| Magnetic Field Meter  | NARDA     | ELT-400   | 1–400kHz        | Jan. 01, 2023    |
| Magnetic Probe        | NARDA     | HF-3061   | 300kHz–30MHz    | Jan. 01, 2023    |
| Magnetic Probe        | NARDA     | HF-0191   | 27–1000MHz      | Jan. 01, 2023    |
| Broadband Field Meter | NARDA     | NBM-550   | —               | Jan. 01, 2023    |
| Electric Field Meter  | COMBINOVA | EFM 200   | 5Hz–400kHz      | Jan. 01, 2023    |
| E-Field Probe         | NARDA     | EF-0391   | 100kHz–3GHz     | Jan. 01, 2023    |
| E-Field Probe         | NARDA     | EF-6091   | 100MHz–60GHz    | Jan. 01, 2023    |

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

## 2. MAXIMUM PERMISSIBLE EXPOSURE

### 2.1 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.

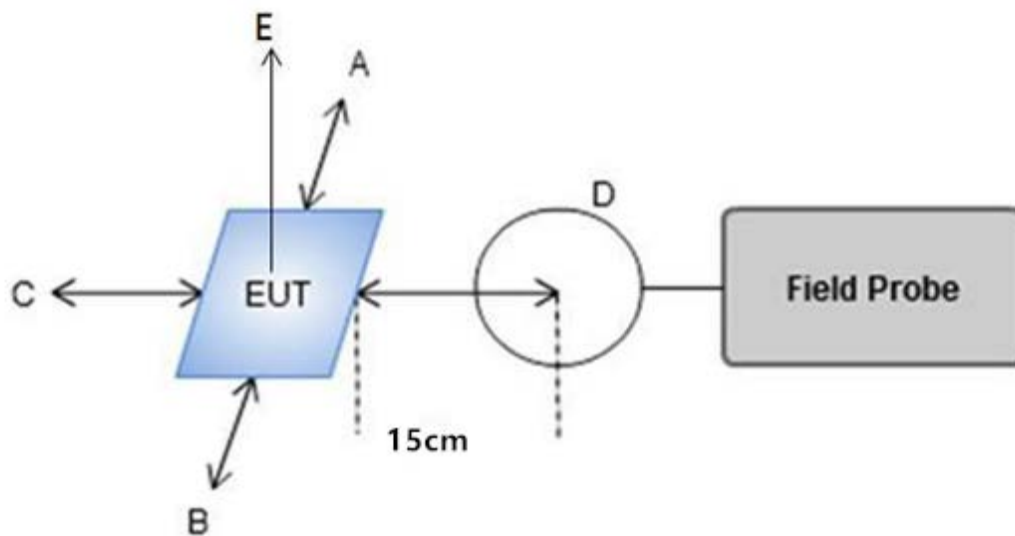
2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

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.

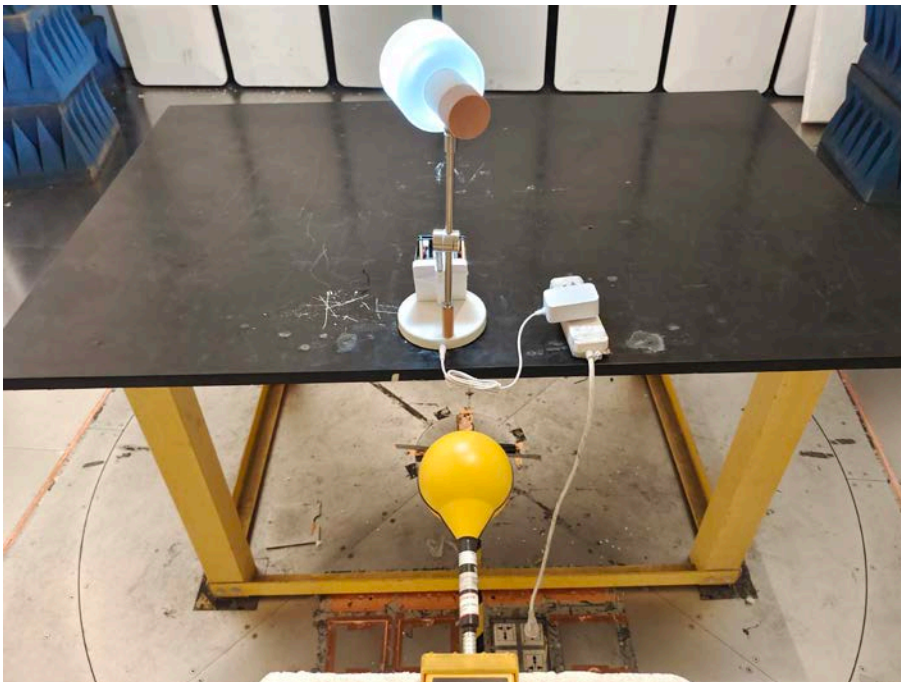
## 2.2 TEST PROCEDURE

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.

## 2.3 SET UP



## 2.4 TEST PHOTO



### 3. RESULT OF MAXIMUM PERMISSIBLE EXPOSURE

For Full load mode:

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

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (V/m) | Limits Test (V/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 0.125                 | 1.14            | 1.17            | 1.18            | 1.06            | 1.15            | 307                   | 614               |

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

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (A/m) | Limits Test (A/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 0.125                 | 0.15            | 0.12            | 0.17            | 0.17            | 0.12            | 0.815                 | 1.63              |

For Half load mode:

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

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (V/m) | Limits Test (V/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 0.125                 | 1.16            | 1.13            | 1.16            | 1.09            | 1.12            | 307                   | 614               |

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

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (A/m) | Limits Test (A/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 0.125                 | 0.12            | 0.21            | 0.12            | 0.18            | 0.23            | 0.815                 | 1.63              |

For No load mode:

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

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (V/m) | Limits Test (V/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 0.125                 | 1.17            | 1.21            | 1.20            | 1.14            | 1.12            | 307                   | 614               |

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

| Frequency Range (MHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limit (A/m) | Limits Test (A/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-------------------|
| 0.125                 | 0.19            | 0.21            | 0.22            | 0.20            | 0.20            | 0.815                 | 1.63              |

※※※※※THE END※※※※※