

# **FCC Test Report**

| FCC ID        | : 2AWCB-KT-T03AWU                       |  |  |  |  |  |  |
|---------------|---|--|--|--|--|--|--|
| Product       | : Smart Multi-color Table Lamp          |  |  |  |  |  |  |
| Trade mark    | : N/A                                   |  |  |  |  |  |  |
| Model Name    | : KT-T03AWU                             |  |  |  |  |  |  |
| Applicant     | : SHENZHENSHI KAIXIN GUANGDIAN CO., LTD |  |  |  |  |  |  |
| Date of Issue | : Aug 27, 2020                          |  |  |  |  |  |  |
| Report No     | : DGE200805007D03                       |  |  |  |  |  |  |

#### **Prepared for**

SHENZHENSHI KAIXIN GUANGDIAN CO., LTD

Software Building, No. 9 GaoxinZhong Yi Road, High-Tech Park, Nanshan district, Shenzhen China

#### Prepared by

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# **TEST RESULT CERTIFICATION**

| Applicant's name:                | SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD  |  |  |  |
|----------------------------------|---|--|--|--|
| Address:                         | Software Building, No. 9 GaoxinZhong Yi Road, High-<br>Tech Park, Nanshan district, Shenzhen China        |  |  |  |
| Manufacturer's Name              | SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD  |  |  |  |
| Address:                         | Software Building, No. 9 GaoxinZhong Yi Road, High-<br>Tech Park, Nanshan district, Shenzhen China        |  |  |  |
| Factory                          | SHENZHENSHI KAIXIN GUANGDIAN CO.,LTD  |  |  |  |
| Address:                         | Software Building, No. 9 GaoxinZhong Yi Road, High-<br>Tech Park, Nanshan district, Shenzhen China        |  |  |  |
| Product description              |   |  |  |  |
| Product name:                    | Smart Multi-color Table Lamp  |  |  |  |
| Main Model:                      | KT-T03AWU   |  |  |  |
| Series Model                     | KT-T03AW,KT-T03EWU,KT-T03EW,KT-T03A   |  |  |  |
| Difference Description::         | The RF circuit principle and internal structure are the same, only Key panel appearance colors different. |  |  |  |
| Rating(s):                       | Input: AC100-240V 50/60HZ or DC 12V 3.0A  |  |  |  |
| Date of Test                     | :   |  |  |  |
| Date (s) of performance of tests | Aug 5, 2020 to Aug 27, 2020   |  |  |  |
| Date of Issue                    | Aug 27, 2020  |  |  |  |
| Test Result                      | Pass  |  |  |  |
|                                  |   |  |  |  |
| Testing Engineer                 | Eder.2han   |  |  |  |
|                                  | (Eder Zhan)   |  |  |  |
| Technical Manager                | Jason chen  |  |  |  |
|                                  | (Jason Chen)  |  |  |  |
| Authorized Signatory             | : Sam . Chew  |  |  |  |
|                                  |   |  |  |  |

(Sam Chen)

## 1.Measuring Standard

FCC Part 1(1.1310) and Part 2(2.1091)

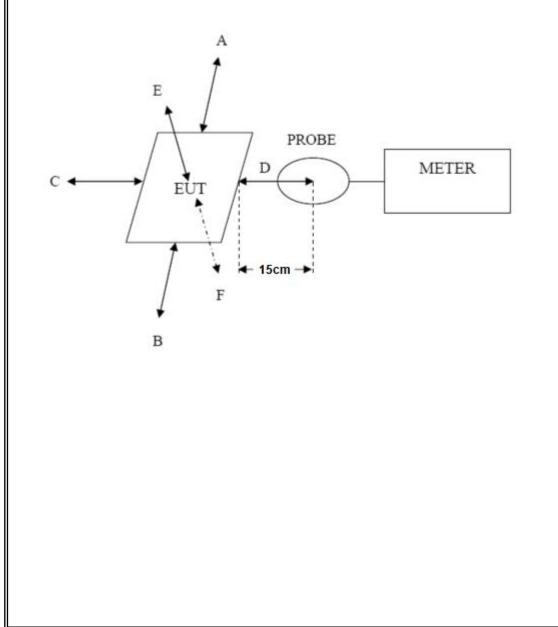
#### 1.1 Test configuration

 The field strength of both E-field and H-field was measured at 15cm using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.
The RF power density was measured at Under maximum load test

3. Maximum E-field and H-field measurements were made 15cm from each side of the EUT. Along the side of the EUT and still 15cm away from the edge of the EUT, the field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.

4. This device uses a wireless charging circuit for power transfer operating at the frequency of 110 - 205kHz. Thus, the 300kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).

#### 1.2 Test Setup



## 2. Limits

| Frequency range<br>(MHz) | Electric field strength<br>(V/m) | field strength Magnetic field strength (A/m) (mW/ci |                       | Averaging time<br>(minutes)  |  |
|--------------------------|----------------------------------|---|-----------------------|--|--|
|                          | (A) Limits for C                 | )ccupational/Controlled Exp                         | osure                 |  |  |
| 0.3-3.0                  | 614                              | 1.63  | 3 *100                | 6  |  |
| 3.0-30                   | 1842/                            | f 4.89/   | f *900/f <sup>2</sup> | 6  |  |
| 30-300                   | 61.4                             | 0.163   | 3 1.0                 | 6  |  |
| 300-1,500                |                                  |   | f/300                 | 6  |  |
| 1,500-100,000            |                                  |   | 5                     | 6  |  |
|                          | (B) Limits for Gene              | ral Population/Uncontrolled                         | Exposure              | de la companya de la |  |
| 0.3-1.34                 |                                  |   | 3 *100                | 30   |  |
| 1.34-30                  | 824/                             | f 2.19/   | f *180/f <sup>2</sup> | 30   |  |
| 30-300                   | 27.5                             | i 0.073   | 3 0.2                 | 30   |  |
| 300-1,500                |                                  |   | f/1500                | 30   |  |
| 1,500-100,000            |                                  |   | 1.0                   | 30   |  |

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

## 3. MEASURING DEVICE AND TEST EQUIPMENT

#### For MPE Measurement E-Field Probe(100kHz-Narda EF0391 Q15221 May 15, 2021 1 Year 3ĠHz) H-Field Probe(300KHz-Narda HF3061 Q15835 May 16, 2021 1 Year 30MHz) **Broadband Field** Q20145 May 16, 2021 NBM-550 1 Year Narda Meter 5 SAW30-120-Adapter N/A N/A N/A N/A 2500U N/A N/A Load N/A N/A N/A

## 4. Measuring Results

Table 1: E-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

| EUT                     | Measured E-Field Strength Values (V/m) |                       |                       |                       | 50%                   |                |                |
|-------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|----------------|----------------|
| Test<br>Mode            | Test<br>Position<br>A                  | Test<br>Position<br>B | Test<br>Position<br>C | Test<br>Position<br>D | Test<br>Position<br>E | Limit<br>(V/m) | Limit<br>(V/m) |
| 1%<br>Battery<br>Level  | 0.75                                   | 0.69                  | 0.64                  | 0.70                  | 0.65                  | 307            | 614            |
| 50%<br>Battery<br>Level | 0.68                                   | 0.76                  | 0.65                  | 0.69                  | 0.72                  | 307            | 614            |
| 99%<br>Battery<br>Level | 0.74                                   | 0.65                  | 0.69                  | 0.62                  | 0.73                  | 307            | 614            |

Table 2: H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

| EUT Test<br>Mode        | Measured H-Field Strength Values (A/m) |                       |                       |                       | 50%                   |                |                |
|-------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|----------------|----------------|
|                         | Test<br>Position<br>A                  | Test<br>Position<br>B | Test<br>Position<br>C | Test<br>Position<br>D | Test<br>Position<br>E | Limit<br>(A/m) | Limit<br>(A/m) |
| 1% Battery<br>Level     | 0.437                                  | 0.456                 | 0.442                 | 0.436                 | 0.452                 | 0.815          | 1.63           |
| 50%<br>Battery<br>Level | 0.443                                  | 0.460                 | 0.455                 | 0.437                 | 0.438                 | 0.815          | 1.63           |
| 99%<br>Battery<br>Level | 0.453                                  | 0.476                 | 0.443                 | 0.460                 | 0.449                 | 0.815          | 1.63           |

#### Remark:

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.

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# 5.TEST SETUP

