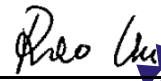
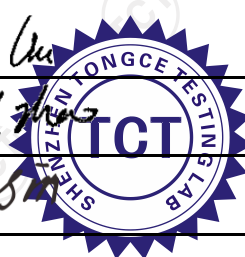


# TEST REPORT

|                                        |                                                                                                                                               |                                                                                       |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| FCC ID..... :                          | 2AQRG-W20Q10C                                                                                                                                 |                                                                                       |
| Test Report No..... :                  | TCT220513E016                                                                                                                                 |                                                                                       |
| Date of issue..... :                   | May 26, 2022                                                                                                                                  |                                                                                       |
| Testing laboratory .....               | SHENZHEN TONGCE TESTING LAB                                                                                                                   |                                                                                       |
| Testing location/ address:             | TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China |                                                                                       |
| Applicant's name..... :                | Shenzhen Feihe Electronics Co., Ltd                                                                                                           |                                                                                       |
| Address..... :                         | 3/F, Bldg 3, HongFa Innovative Park, HuangMaBu Community, Baoan District, Shenzhen, 518101 China                                              |                                                                                       |
| Manufacturer's name ... :              | Shenzhen Feihe Electronics Co., Ltd                                                                                                           |                                                                                       |
| Address..... :                         | 3/F, Bldg 3, HongFa Innovative Park, HuangMaBu Community, Baoan District, Shenzhen, 518101 China                                              |                                                                                       |
| Standard(s) .....                      | FCC CFR Title 47 Part 1.1310<br>KDB 680106 D01 RF Exposure Wireless Charging App v03r01                                                       |                                                                                       |
| Product Name..... :                    | LED table lamp                                                                                                                                |                                                                                       |
| Trade Mark .....                       | N/A                                                                                                                                           |                                                                                       |
| Model/Type reference..... :            | W20Q10C, TL343Q                                                                                                                               |                                                                                       |
| Rating(s)..... :                       | Refer to EUT description of page 3                                                                                                            |                                                                                       |
| Date of receipt of test item .....     | May 13, 2022                                                                                                                                  |                                                                                       |
| Date (s) of performance of test..... : | May 13, 2022 ~ May 26, 2022                                                                                                                   |                                                                                       |
| Tested by (+signature) ... :           | Rleo LIU                                                                                                                                      |  |
| Check by (+signature).... :            | Beryl ZHAO                                                                                                                                    |  |
| Approved by (+signature):              | Tomsin                                                                                                                                        |  |

**General disclaimer:**

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## 1. General Product Information

### 1.1. EUT description

|                            |                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------|
| Product Name.....:         | LED table lamp                                                                                            |
| Model/Type reference.....: | W20Q10C                                                                                                   |
| Sample Number.....:        | TCT220513E015-0101                                                                                        |
| Operation Frequency .....  | 112.80kHz ~ 163.10kHz                                                                                     |
| Modulation Type .....      | Load modulation                                                                                           |
| Antenna Type.....:         | Inductive loop coil Antenna                                                                               |
| Rating(s).....:            | Adapter Information:<br>MODEL: K65A240250U<br>INPUT: AC 100-240V, 50/60Hz, 1.5A<br>OUTPUT: DC 24.0V, 2.5A |

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

### 1.2. Model(s) list

| No.          | Model No. | Tested with                         |
|--------------|-----------|-------------------------------------|
| 1            | W20Q10C   | <input checked="" type="checkbox"/> |
| Other models | TL343Q    | <input type="checkbox"/>            |

Note: W20Q10C is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of W20Q10C can represent the remaining models.

## 2. Facilities and Accreditations

### 2.1. Facilities

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

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 2.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

### 3. Test Results and Measurement Data

#### 3.1. Requirements

According to the item 5.b of KDB 680106 D01v03:

Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC or a PAG for equipment approved using certification to address RF exposure compliance. However, the responsible party is required to keep a copy of the test report in accordance with KDB 865664 D02. A copy of the test report is to be submitted with the application if the device is approved using certification.

- (1) Power transfer frequency is less than 1 MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) 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.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (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.

Limits For Maximum Permissible Exposure (MPE)

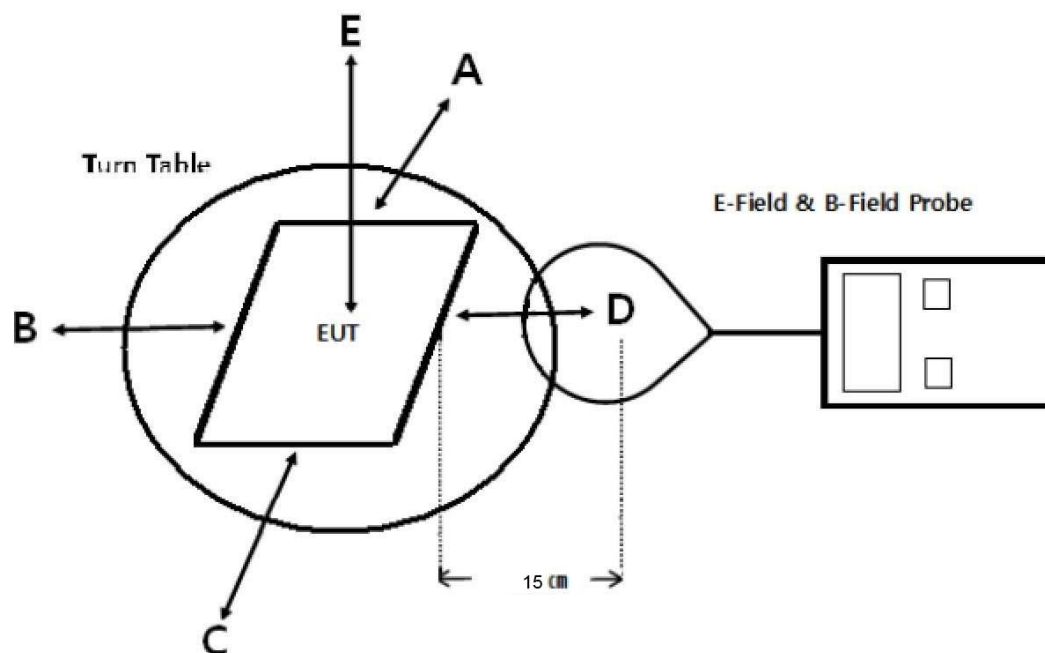
| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1500                                                       | /                             | /                             | f/300                               | 6                        |
| 1500-100,000                                                   | /                             | /                             | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                                        | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                       |
| 30-300                                                         | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300-1500                                                       | /                             | /                             | f/1500                              | 30                       |
| 1500-100,000                                                   | /                             | /                             | 1.0                                 | 30                       |

F=frequency in MHz

\*=Plane-wave equivalent power density

RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

### 3.2. Test Setup



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

### 3.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at 15 cm surrounding the device and 20 cm above the top surface of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03. Remark;  
The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

### 3.4. Test Equipment List

| Equipment            | Manufacturer | Model No.   | Serial No.  | Calibration Due |
|----------------------|--------------|-------------|-------------|-----------------|
| Magnetic field meter | NARDA        | ELT-400     | N-0925      | Feb. 24, 2023   |
| Mobile Phone         | SM-G9350     | R28HA2ER3GT | R28HA2ER3GT | /               |
| Field Probe          | NARDA        | ELT-400     | C-0371      | Feb. 24, 2023   |

### 3.5. Test Result

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

| Frequency Range (KHz) | Operation condition | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limits Test (V/m) | Limits Test (V/m) |
|-----------------------|---------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------|-------------------|
| 112.80 ~ 163.10       | Full load           | 1.26            | 1.28            | 1.28            | 1.18            | 1.34            | 307                         | 614               |
| 112.80 ~ 163.10       | Half load           | 1.21            | 1.24            | 1.25            | 1.15            | 1.32            | 307                         | 614               |
| 112.80 ~ 163.10       | No load             | 1.20            | 1.22            | 1.25            | 1.15            | 1.30            | 307                         | 614               |

**H-Filed Strength 15 cm surrounding the device and 20 cm above the top surface of the EUT (uT)**

| Frequency Range (KHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 112.80 ~ 163.10       | 0.235           | 0.227           | 0.245           | 0.242           | 0.227           |
| 112.80 ~ 163.10       | 0.241           | 0.232           | 0.251           | 0.246           | 0.233           |
| 112.80 ~ 163.10       | 0.246           | 0.238           | 0.258           | 0.253           | 0.239           |

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

| Frequency Range (KHz) | Test Position A | Test Position B | Test Position C | Test Position D | Test Position E | Reference Limits Test (A/m) | Limits Test ((A/m) |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------------|--------------------|
| 112.80 ~ 163.10       | 0.188           | 0.182           | 0.196           | 0.194           | 0.182           | 0.815                       | 1.63               |
| 112.80 ~ 163.10       | 0.193           | 0.186           | 0.201           | 0.197           | 0.186           | 0.815                       | 1.63               |
| 112.80 ~ 163.10       | 0.197           | 0.190           | 0.206           | 0.202           | 0.191           | 0.815                       | 1.63               |

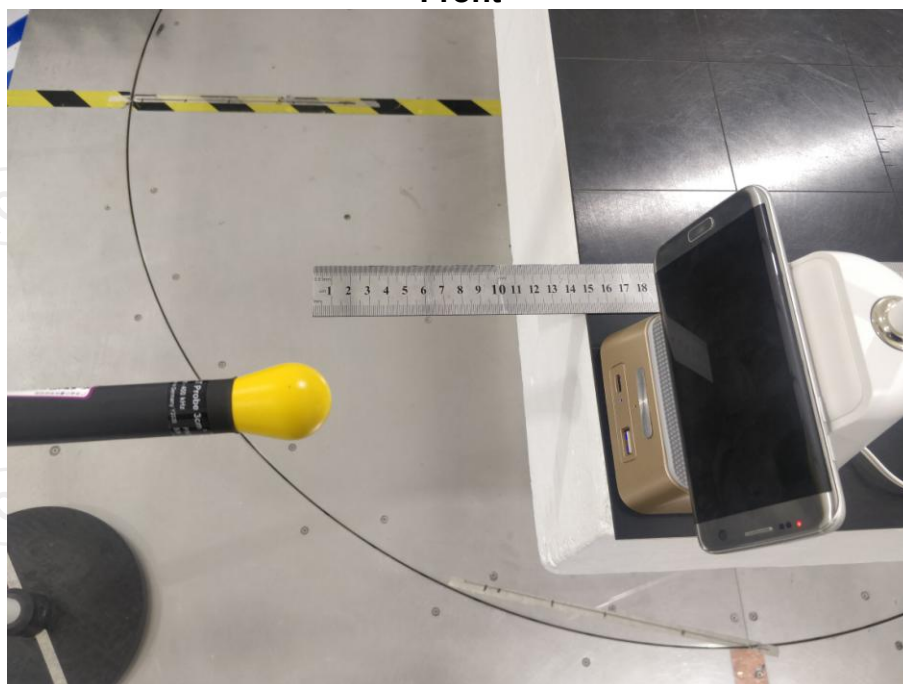
Note:  $uT=1.25*(A/m)$ ,  $1mT=1000uT$

According to KDB 680106 D01 v03 section 5, b, satisfy the following conditions.

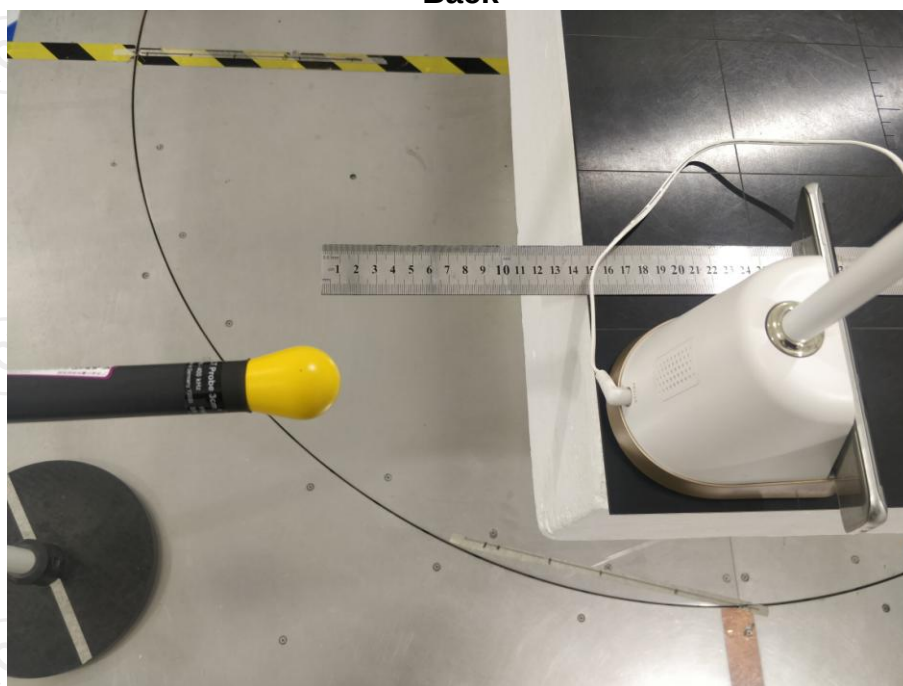
| Requirement of KDB 680106 D01                                                                                                                                                                                                           | Yes/No | Description                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power transfer frequency is less than 1MHz                                                                                                                                                                                              | Yes    | The device operate in the frequency range<br>112.80kHz ~ 163.10kHz                                                                                                                       |
| Output power from each primary coil is less than or equal to 15 watts                                                                                                                                                                   | Yes    | The maximum output power of the primary coil is 10W.                                                                                                                                     |
| The transfer system includes only single primary and secondary coils. This includes charging system 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 two coils that is able to detect receiver device.                                                                                                           |
| 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    | Mobile exposure conditions only                                                                                                                                                          |
| The aggregate H-field strengths at 15 cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.                                          | Yes    | The EUT H-field strengths at 15 cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. |

### 3.6. Test Set-up Photo

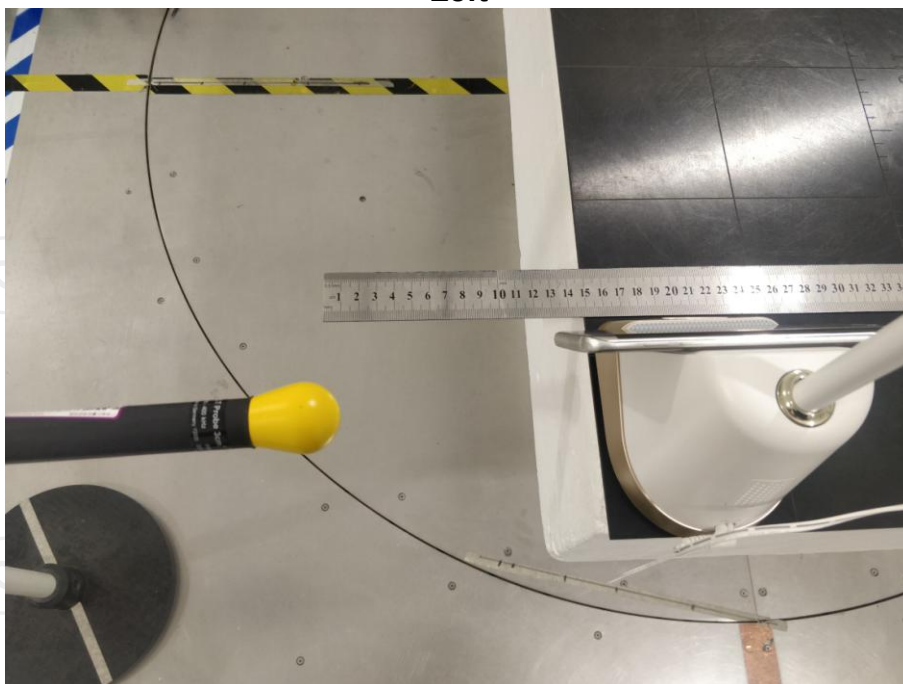
Front



Back



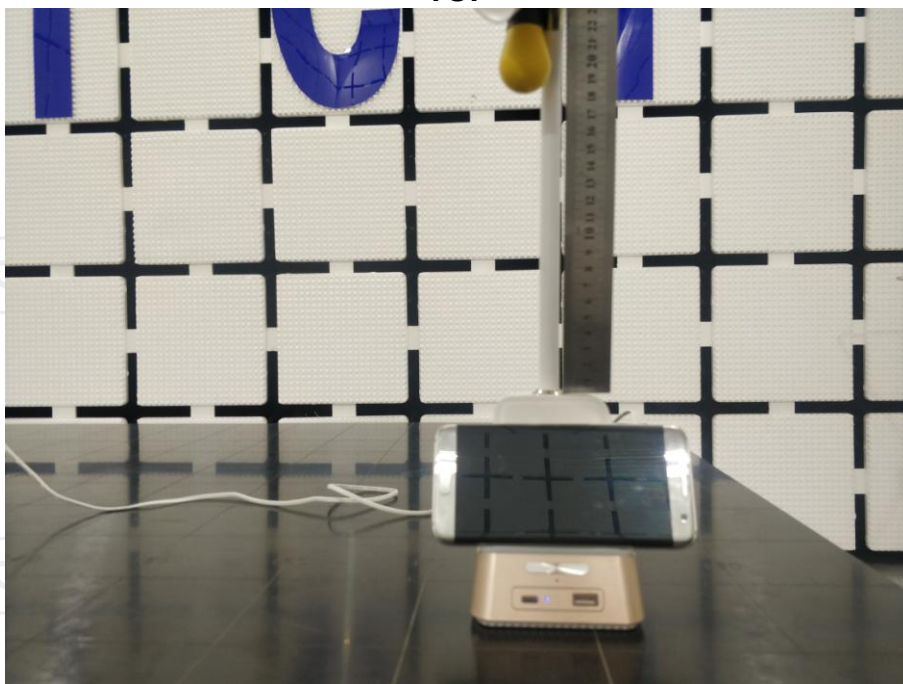
Left



Right



TOP



**\*\*\*\*\*END OF REPORT\*\*\*\*\***