# TEST REPORT

| | | |
|---|---|---|
| **Reference No.** | : | WTX21X06064566W-2 |
| **FCC ID** | : | A4X-WPC10-1CCNA |
| **Applicant** | : | CE LINK LIMITED |
| **Address** | : | Building M,LiCheng Technology Industrial Zone,GongHe Village,ShaJing Town,ShenZhen City,China. |
| **Product Name** | : | Magnetic Wireless charging |
| **Test Model** | : | WPC10-1CCNA |
| **Standards** | : | KDB 680106 D01 V03 |
| **Date of Receipt sample** | : | Jun. 30, 2021 |
| **Date of Test** | : | Jun. 30, 2021 to Jul. 15, 2021 |
| **Date of Issue** | : | Jul. 15, 2021 |
| **Test Result** | : | **Pass** |

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.


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| Tested by: | Reviewed By: | Approved & Authorized By: |
|---|---|---|
| Jason Su / Project Engineer | Lion Cai / RF Manager | Silin Chen / Manager |

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## Report version

| Version No. | Date of issue | Description |
|---|---|---|
| Rev.00 | Jul. 15, 2021 | Original |
| / | / | / |

# 1. GENERAL INFORMATION

## 1.1 Product Description for Equipment Under Test (EUT)

**Client Information**

| | |
|---|---|
| Applicant: | CE LINK LIMITED |
| Address of applicant: | Building M,LiCheng Technology Industrial Zone,GongHe Village,ShaJing Town,ShenZhen City,China. |
| Manufacturer: | Dongguan CE LINK LIMITED |
| Address of manufacturer: | 22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong Province, China. |
| Factory1: | SuiChuan CE LINK LIMITED |
| Address of factory1: | SuiChuan county industrial park east zone, Ji'an city, Jiangxi province, China. |
| Factory2: | CE LINK VIET NAM COMPANY LIMITED. |
| Address of factory2: | Lot CNSG04&CNSG06 Van Trung Industrial Zone, Viet Yen district, Bac Giang Province, Vietnam |

| **General Description of EUT** | |
|---|---|
| Product Name: | Magnetic Wireless charging |
| Trade Name: | CE-LINK |
| Model No.: | WPC10-1CCNA |
| Adding Model(s): | / |
| | |
| *Note: The test data is gathered from a production sample, provided by the manufacturer.* | |

| **Technical Characteristics of EUT** | |
|---|---|
| Frequency Range: | 110~205kHz |
| Power adapter | / |
| Antenna Type: | Coil Antenna |
| Antenna Gain: | 0dBi |
| Rated Voltage/Current: | Input:5V⎓2A, 9V⎓2A<br>Output:5V⎓ 1A, 7.5V⎓1A, 9V⎓1.1A 10W(Max) |
| Rated Power: | Output: 5W, 7.5W,10W |

Auxiliary Equipment List and Details

| Description | Manufacturer | Model | Serial Number |
|---|---|---|---|
| DC Cable | 0.8 | Unshielded | Without Ferrite |
| wireless charging load | YBZ | YBZ wireless charging tester | / |

## 1.2 Test Equipment List and Details

| Description | Manufacturer | Model | Serial No. | Cal Date | Due Date |
|---|---|---|---|---|---|
| ELECTRIC AND MAGNETIC FIELD ANALYZER | Narda | EHP-200AC | 180ZX10226 | 2021-05-20 | 2024-05-19 |

# 2. RF Exposure Test Report

## 2.1 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

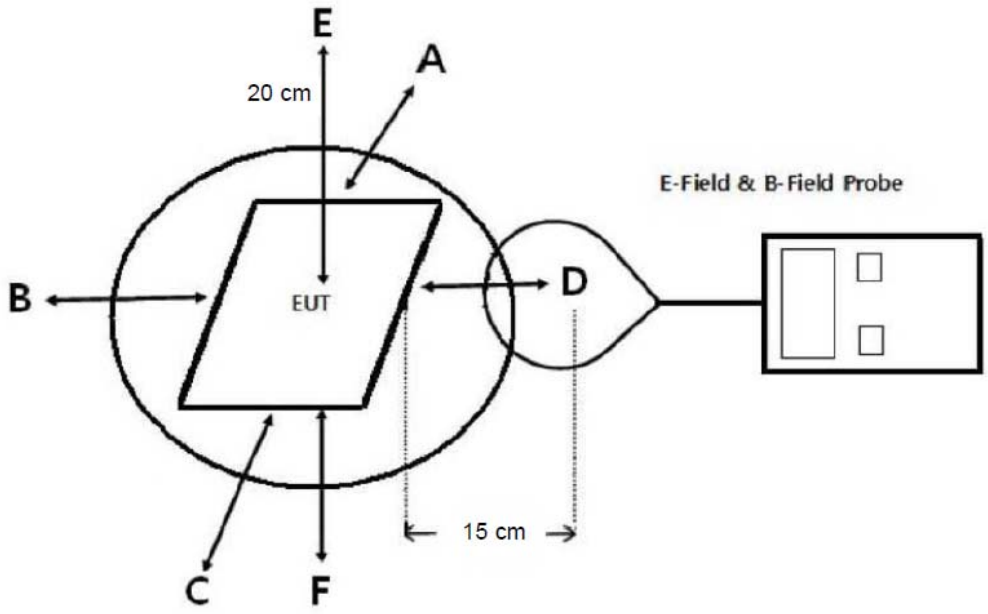
| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density ($mW/cm^2$) | Averaging time (minutes) |
|---|---|---|---|---|
| (A) Limits for Occupational/Controlled Exposure | | | | |
| 0.3-3.0 | 614 | 1.63 | *100 | 6 |
| 3.0-30 | 1842/f | 4.89/f | $*900/f^2$ | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1,500 | | | f/300 | 6 |
| 1,500-100,000 | | | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *100 | 30 |
| 1.34-30 | 824/f | 2.19/f | $*180/f^2$ | 30 |
| 30-300 | 27.5 | 0.073 | 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

## 2.2 Test Conditions

| Test Mode | Description | Remark |
|---|---|---|
| TM1 | Wireless Charging | Input DC5V/2A; Output:DC5V/1A |
| TM2 | Wireless Charging | Input DC9V/2A; Output:DC9V/1.1A |
| | | |
| **Measurement Distance:** | 15 cm | |

## 2.3 Test Procedure




a. The measurement probe was placed at test distance(15 cm for A,B,C,D,F and 20 cm for E) which is between the edge of the charger and the geometric center of probe.
b. The highest emission level was recorded at the measurement points(A, B, C, D, E, F).
c. The EUT was measured according to the distance of KDB 680106 D01 V03.

## 2.4 Test Result

The EUT dose comply with item 5.2 of KDB 680106 D01V03

1. Power transfer frequency is less that 1 MHz
   Yes, the device operate in the frequency range from 110kHz to 205kHz.

2. Output power from each primary coil is less than or equal to 15 watts
   Yes, the maximum output power of the primary coil is less than 15W.

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
   Yes, the client device includes only single primary coils.

4. Client device is inserted in or placed directly in contact with the transmitter
   Yes, Client device is placed directly in contact with the transmitter.

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

Yes, It is mobile exposure conditions only.

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.
   Yes, The EUT field strength levels are less than 50% of the MPE limit, refer to test TM1, TM2 list, and the coils can't transmitted simultaneous.

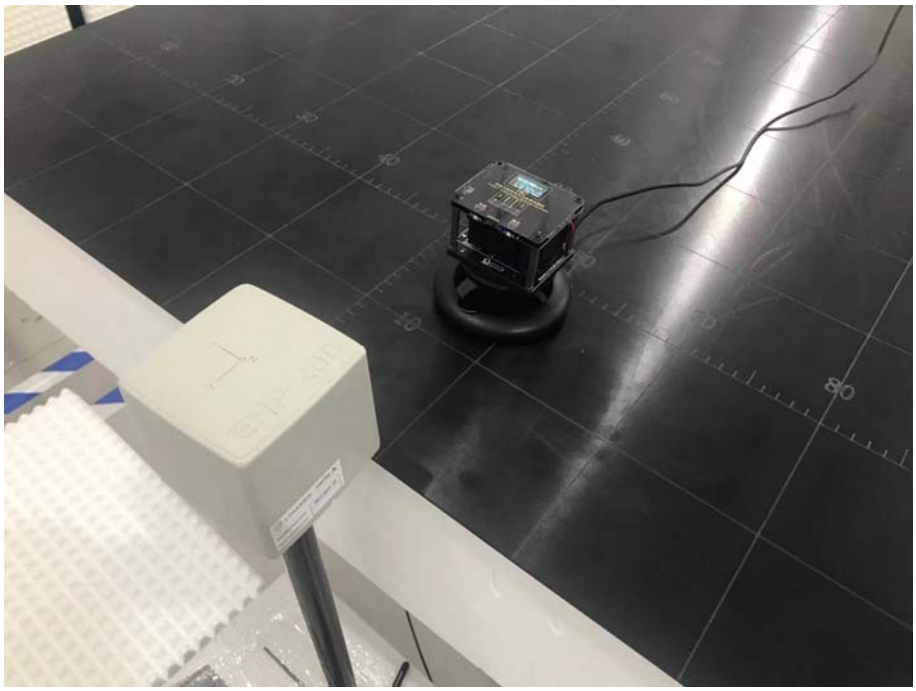
*Test Mode: TM1*

| **Electric Field Emissions** | | | |
|---|---|---|---|
| **Test Position** | **Measure Value (V/m)** | **Limit(V/m)** | **50% Limit (V/m)** |
| Point E | 7.1517 | 614 | 307 |
| Point F | 7.1432 | 614 | 307 |
| Point A | 6.9765 | 614 | 307 |
| Point B | 7.0142 | 614 | 307 |
| Point C | 7.0112 | 614 | 307 |
| Side D | 6.8741 | 614 | 307 |
| | | | |
| **Magnetic Field Emissions** | | | |
| **Test Position** | **Measure Value (A/m)** | **Limit(A/m)** | **50% Limit (A/m)** |
| Point E | 0.1401 | 1.63 | 0.815 |
| Point F | 0.1236 | 1.63 | 0.815 |
| Point A | 0.1014 | 1.63 | 0.815 |
| Point B | 0.1126 | 1.63 | 0.815 |
| Point C | 0.1147 | 1.63 | 0.815 |
| Side D | 0.1241 | 1.63 | 0.815 |

*Test Mode: TM2*

| Electric Field Emissions | | | |
|---|---|---|---|
| **Test Position** | **Measure Value (V/m)** | **Limit(V/m)** | **50% Limit (V/m)** |
| Point E | 8.1424 | 614 | 307 |
| Point F | 8.0415 | 614 | 307 |
| Point A | 8.0136 | 614 | 307 |
| Point B | 7.9874 | 614 | 307 |
| Point C | 7.8713 | 614 | 307 |
| Side D | 7.8601 | 614 | 307 |
| | | | |
| **Magnetic Field Emissions** | | | |
| **Test Position** | **Measure Value (A/m)** | **Limit(A/m)** | **50% Limit (A/m)** |
| Point E | 0.2008 | 1.63 | 0.815 |
| Point F | 0.1987 | 1.63 | 0.815 |
| Point A | 0.1874 | 1.63 | 0.815 |
| Point B | 0.1954 | 1.63 | 0.815 |
| Point C | 0.1735 | 1.63 | 0.815 |
| Side D | 0.1891 | 1.63 | 0.815 |

## 2.5 Test Photos



# APPENDIX PHOTOGRAPHS

**Please refer to "ANNEX"**

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