

TEST REPORT

Reference No...... : WTX24X01025653W002
FCC ID..... : A4X-MPP15-1TCNA-J
Applicant..... : CE LINK LIMITED
Address..... : 22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong
Province, China.
Manufacturer..... : DONGGUAN CE LINK LIMITED
Address..... : 22 Dongkang Road, Dalingshan Town, Dongguan City, Guangdong
Province, China.
Product Name..... : QI2 Wireless Charger
Model No...... : MPP15-1TCNA-J
Standards..... : KDB 680106 D01 V04
KDB 447498 D01 V06
Date of Receipt sample..... : 2024-01-31
Date of Test..... : 2024-01-31 to 2024-05-28
Date of Issue..... : 2024-05-28
Test Report Form No...... : WTX_KDB 680106 D01 V04W
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 approver.

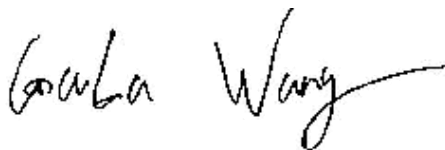
Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,
Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:



Gala Wang

Approved by:



Jason Su

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Report version

| Version No. | Date of issue | Description |
|-------------|---------------|-------------|
| Rev.00 | 2024-05-28 | Original |
| / | / | / |

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Factory#1: SuiChuan CE LINK LIMITED
 Address of factory: SuiChuan county industrial park east zone, Ji'an city, Jiangxi Province, China.

Factory#2: CE LINK VIET NAM COMPANY LIMITED.
 Address of factory: Lot CNSG04&CNSG06 Van Trung Industrial Zone, Viet Yen district, Bac Giang Province, Vietnam

| General Description of EUT | |
|--|----------------------|
| Product Name: | QI2 Wireless Charger |
| Trade Name: | CE-LINK |
| Model No.: | MPP15-1TCNA-J |
| Adding Model(s): | / |
| <i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i> | |

| Technical Characteristics of EUT | |
|----------------------------------|------------------------------------|
| Frequency Range: | 110-205kHz@5W 128kHz/360kHz@15W |
| Modulation Type: | ASK |
| Antenna Type: | Coil Antenna |
| Rated Voltage: | Input: DC5V/9V |
| Rated Current: | Input: 3A/2.22A |
| Rated Power: | Output: 5W/15W |

1.2 Auxiliary Equipment List and Details

Auxiliary Equipment List and Details

| Description | Manufacturer | Model | Serial Number |
|-------------|--------------|-----------|---------------|
| Adapter | Iotie | CHCRIO160 | / |

EUT Cable List and Details

| Cable Description | Length (M) | Shielded/Unshielded | With Core/Without Core |
|-------------------|------------|---------------------|------------------------|
| USB Cable | 0.6 | Shielded/ | Without Core |

1.3 Test Equipment List and Details

| Description | Manufacturer | Model | Serial No. | Cal Date | Due Date |
|--------------------------------------|--------------|-----------|------------|------------|------------|
| ELECTRIC AND MAGNETIC FIELD ANALYZER | Narda | EHP-200AC | 180ZX10226 | 2024-03-05 | 2025-03-04 |

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)

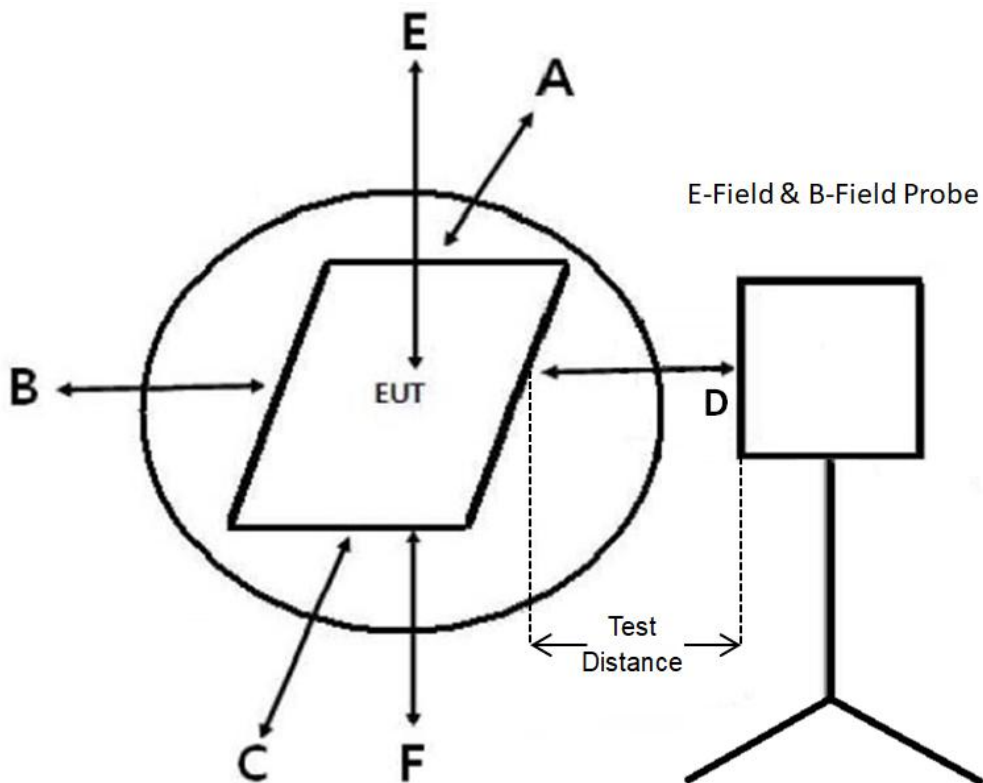
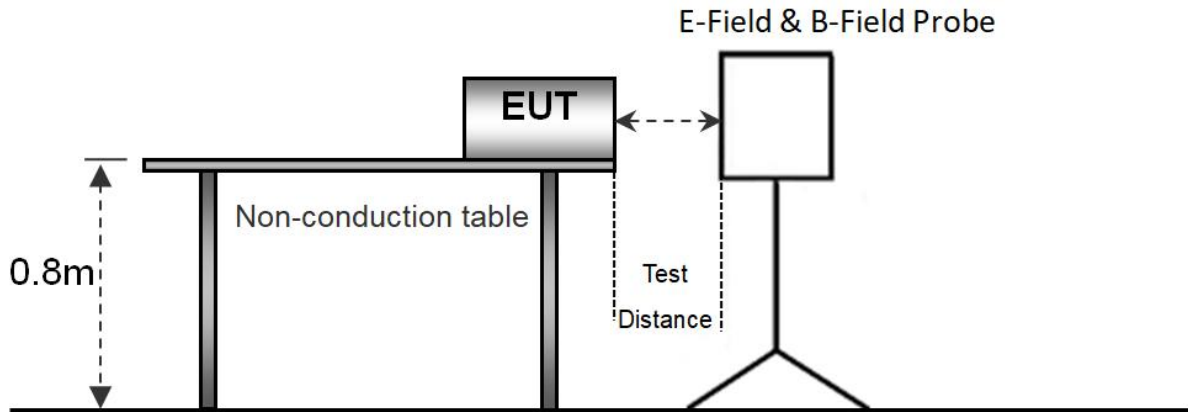
| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm ²) | Averaging time (minutes) |
|--|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| (A) Limits for Occupational/Controlled 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 | Connect to the Adapter; AC120V 60Hz for adapter, Wireless Charging (5W) |
| TM2 | Wireless Charging | Connect to the Adapter; AC120V 60Hz for adapter, Wireless Charging (MAX OUTPUT) |
| Note: The EUT was tested with empty load, half load, and full load, and recorded the worst mode (full load) data in the report. | | |
| Measurement Distance: | 15 cm and 20 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 edge 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 v041.

2.4 Test Result

The EUT complies with item 5.2 of KDB 680106 D01V04

(1) The power transfer frequency is below 1 MHz.

Yes, the device operate in the frequency range from 110-205kHz and 128kHz/360kHz.

(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is equal to 15W.

(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

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

(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

Yes, It is mobile exposure conditions only.

(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

Yes, The EUT field strength levels are less than 50% of the MPE limit, refer to test TM1, TM2 list.

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

Yes, The EUT field strength levels are less than 50% of the MPE limit, refer to test 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 | 4.25 | 614 | 307 |
| Point F | 2.11 | 614 | 307 |
| Point A | 4.04 | 614 | 307 |
| Point B | 5.32 | 614 | 307 |
| Point C | 3.10 | 614 | 307 |
| Point D | 3.01 | 614 | 307 |
| Magnetic Field Emissions | | | |
| Test Position | Measure Value (A/m) | Limit(A/m) | 50% Limit (A/m) |
| Point E | 0.27 | 1.63 | 0.815 |
| Point F | 0.41 | 1.63 | 0.815 |
| Point A | 0.39 | 1.63 | 0.815 |
| Point B | 0.35 | 1.63 | 0.815 |
| Point C | 0.24 | 1.63 | 0.815 |
| Point D | 0.12 | 1.63 | 0.815 |

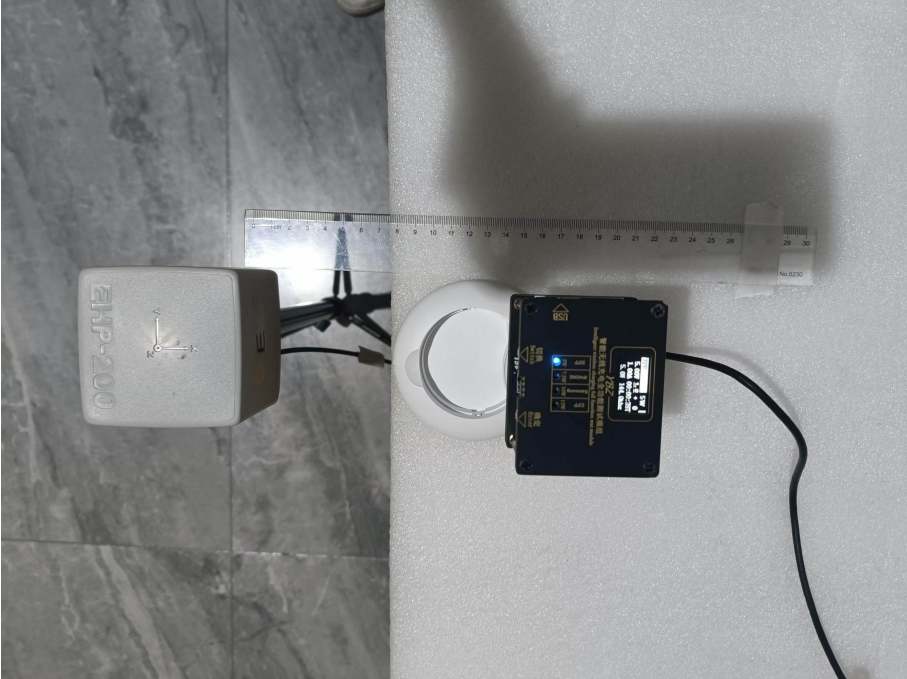
Test Mode: TM2

| Electric Field Emissions | | | |
|---------------------------------|----------------------------|-------------------|------------------------|
| Test Position | Measure Value (V/m) | Limit(V/m) | 50% Limit (V/m) |
| Point E | 5.99 | 614 | 307 |
| Point F | 2.03 | 614 | 307 |
| Point A | 4.12 | 614 | 307 |
| Point B | 5.45 | 614 | 307 |
| Point C | 3.23 | 614 | 307 |
| Point D | 3.21 | 614 | 307 |
| Magnetic Field Emissions | | | |
| Test Position | Measure Value (A/m) | Limit(A/m) | 50% Limit (A/m) |
| Point E | 0.29 | 1.63 | 0.815 |
| Point F | 0.44 | 1.63 | 0.815 |
| Point A | 0.41 | 1.63 | 0.815 |
| Point B | 0.37 | 1.63 | 0.815 |
| Point C | 0.26 | 1.63 | 0.815 |
| Point D | 0.18 | 1.63 | 0.815 |

2.5 Measurement Uncertainty

| Measurement uncertainty | | |
|--------------------------|------------|------------------|
| Parameter | Conditions | Uncertainty |
| Electric Field Emissions | Radiated | ± 1.56 (V/m) |
| Magnetic Field Emissions | Radiated | ± 0.08 (A/m) |

2.6 Test Photos



APPENDIX PHOTOGRAPHS

Please refer to "ANNEX"

**** END OF REPORT ****