



Measurement and Test Report

For

CE LINK LIMITED

Building M, LiCheng Technology Industrial Zone, GongHe Village, ShaJing

Town, ShenZhen City, China

FCC ID: A4X-WPC15-1TJNB

FCC Rule(s):	<u>KDB 680106 D01 V03</u>
Product Description:	<u>Wireless Charger</u>
Tested Model:	<u>WPC15-1TJNB</u>
Report No.:	<u>WTX20X05026945W-2</u>
Sample Receipt Date:	<u>May.13, 2020</u>
Tested Date:	<u>May.13, 2020 to Jun.09, 2020</u>
Issued Date:	<u>Jun.09, 2020</u>
Tested By:	<u>Jason Su / Engineer</u> <i>Jason Su</i>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Waltek Testing Group (Shenzhen) Co., Ltd.



TABLE OF CONTENTS

1. GENERAL INFORMATION.....4
 1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT).....4
 1.2 TEST EQUIPMENT LIST AND DETAILS5

2. RF EXPOSURE TEST REPORT6
 2.1 STANDARD APPLICABLE.....6
 2.2 TEST CONDITIONS6
 2.3 TEST PROCEDURE.....7
 2.4 TEST RESULT.....7



Report version

Version No.	Date of issue	Description
Rev.00	Jun.09, 2020	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: CE LINK LIMITED
 Address of manufacturer: Building M,LiCheng Technology Industrial Zone,
 GongHe Village,ShaJing Town,ShenZhen City,China

General Description of EUT	
Product Name:	Wireless Charger
Trade Name:	CE-LINK
Model No.:	WPC15-1TJNB
Adding Model(s):	B0872RLX6Z
Serial Number :	CE LINK_WPC15-1TJNB-20200600001
Firmware Version:	V1.0
Hardware Version:	V1.0
<p><i>Note: The test data is gathered from a production sample, provided by the manufacturer. The appearance of others models listed in the report is different from main-test model WPC15-1TJNB, but the circuit and the electronic construction do not change, declared by the manufacturer.</i></p>	

Technical Characteristics of EUT	
Frequency Range:	110~150kHz
Antenna Type:	Coil Antenna
Rated Voltage:	DC5V / DC9V / DC12V
Rated Current:	1A / 1.1A / 1.25A
Rated Power:	5W / 10W / 15W



1.2 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1240	MPE Measuring Instrument	Narda	ELT-400	M-0170	2019-07-15	2020-07-14



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)

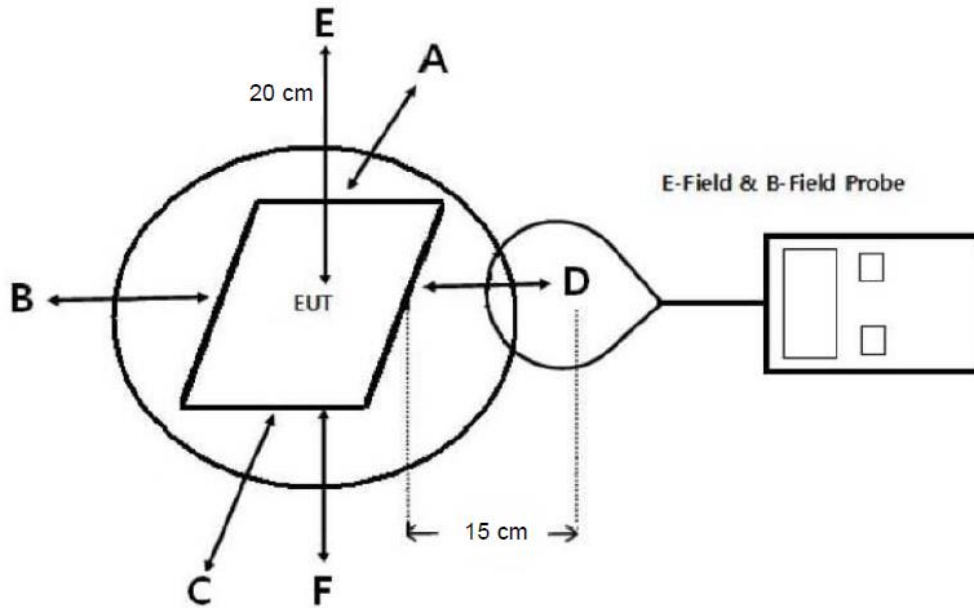
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	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	Power Supply Mode
TM1	Wireless Charging	/	Input DC5V/2A; Output:DC5V/1A
TM2	Wireless Charging	/	Input DC9V/2A; Output:DC9V/1.1A
TM3	Wireless Charging	/	Input DC12V/1.5A; Output:DC12V/1.25A
Measurement Distance:	15 cm		

2.3 Test Procedure



- 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.
- The highest emission level was recorded at the measurement points (A, B, C, D, E, F).
- 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

- Power transfer frequency is less than 1 MHz
Yes, the device operate in the frequency range from 110kHz to 205kHz.
- Output power from each primary coil is less than 15 watts
Yes, the maximum output power of the primary coil is less than 15W.
- 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.
- Client device is inserted in or 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, 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)
Top	67	614	307
Bottom	63	614	307
Side 1	64	614	307
Side 2	62	614	307
Side 3	63	614	307
Side 4	64	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Top	0.036	1.63	0.815
Bottom	0.031	1.63	0.815
Side 1	0.031	1.63	0.815
Side 2	0.032	1.63	0.815
Side 3	0.033	1.63	0.815
Side 4	0.034	1.63	0.815



Test Mode: TM2

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Top	74	614	307
Bottom	72	614	307
Side 1	71	614	307
Side 2	73	614	307
Side 3	71	614	307
Side 4	72	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Top	0.027	1.63	0.815
Bottom	0.026	1.63	0.815
Side 1	0.027	1.63	0.815
Side 2	0.025	1.63	0.815
Side 3	0.022	1.63	0.815
Side 4	0.023	1.63	0.815

Test Mode: TM3

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Top	74	614	307
Bottom	71	614	307
Side 1	72	614	307
Side 2	71	614	307
Side 3	73	614	307
Side 4	74	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Top	0.047	1.63	0.815
Bottom	0.042	1.63	0.815
Side 1	0.045	1.63	0.815
Side 2	0.043	1.63	0.815
Side 3	0.044	1.63	0.815
Side 4	0.043	1.63	0.815

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