



FCC TEST REPORT

FCC ID: 2AZG4-JRWIRELESSCH

Product	:	Wireless Charger
Model Name	:	JR-CHARG-BLKWAL,JR-CHARG-WHTRUB
Brand	:	N/A
Report No.	:	PTC20101402901E-FC02
Prepared for		
Joy Resolve Ltd.		
115 Mare Street,Keltan House (WeWork) London,E8 4RU		
Prepared by		
Precise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



Report No.: PTC20101402901E-FC02

TEST RESULT CERTIFICATION

Applicant's name : Joy Resolve Ltd.

Address : 115 Mare Street, Keltan House (WeWork) London, E8 4RU

Manufacture's name : Power System Electronic Technology Co., Ltd.

Address : No.1 Shangbian Road, Puxin Industrial District, Shipai Town, Dongguan City, Guangdong, China

Product name : Wireless Charger

Model name : JR-CHARG-BLKWAL, JR-CHARG-WHTRUB

Test procedure : KDB680106 D01 RF Exposure Wireless Charging Apps v03r01

Test Date : Oct 28, 2020 to Nov 23, 2020

Date of Issue : Nov 23, 2020

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in black ink that reads "Leo Yang" with a long horizontal stroke extending to the right.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that appears to read "Chris Du" in a stylized, cursive script.

Chris Du / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		

2.1 Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	NARDA	ELT-400	N-0713	Aug. 21, 2020	3 Year
2	B-Fied probe	NARDA	ELT-400	M-1154	Aug. 21, 2020	3 Year



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Wireless Charger
Model Name	:	JR-CHARG-BLKWAL, JR-CHARG-WHTRUB Note: The appearance color is different, the others are the same
Operation Frequency	:	110.1-205KHz
Type of Modulation	:	ASK
Antenna installation	:	Inductive loop coil Antenna
Antenna Gain	:	0 dBi
Power supply	:	Input: 100-240V~ 50/60Hz, Output: 10W
Hardware Version	:	N/A
Software Version	:	N/A

Description of Support Units

Equipment	Model No.	Series No.
iPhone	Input: 100-240V~ 50/60Hz, Output: 10W	N/A

Equipment	Model No.	Series No.
Adapter	Input: 100-240V~ 50/60Hz, DC 5V 2A Output: 10W	N/A



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

According to the item 5.b) of KDB 680106 v03r01:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

(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 system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

(4) Client device is placed directly in contact with the transmitter.

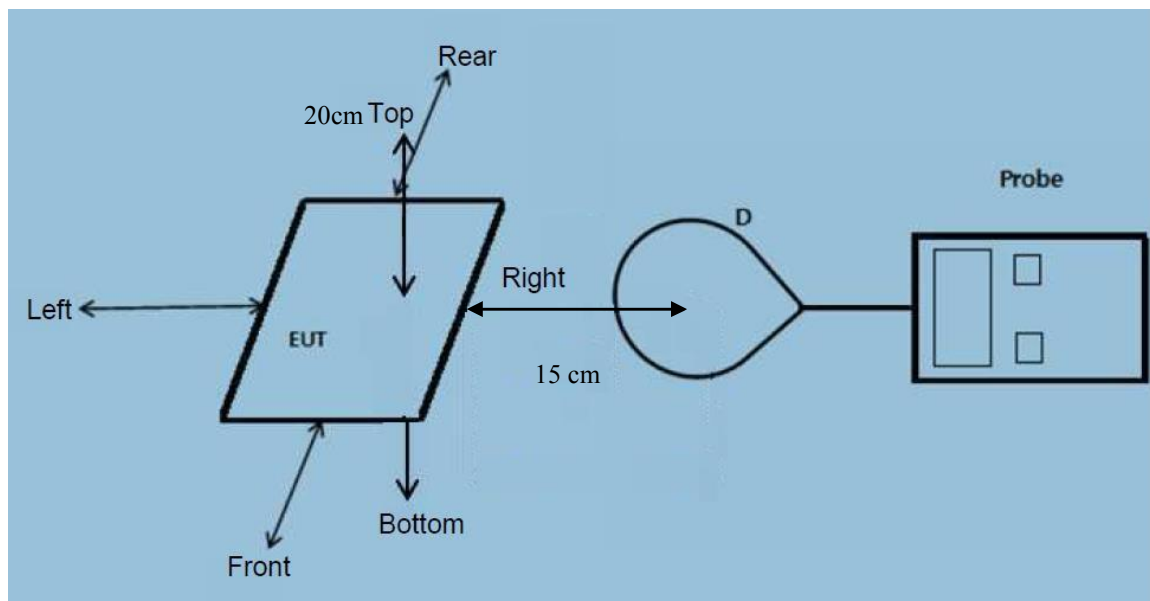
(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

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 Exposures				
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
300-1500	/	/	f/300	6
1500-100,000	/	/	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
300-1500	/	/	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).

4.2 Test Setup





Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

4.3 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance which is between the edge 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. (A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 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.

4.4 Test Result

Equipment Approval Considerations item 5.b of KDB 680106 v03r01.

- 1) Power transfer frequency is less than 1 MHz
 - The device operate in the frequency range 110.1~205KHz
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 10W.
- 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
 - The transfer system including a charging system with two primary coils is to detect and allow only between individual pairs of coils. Only one coil works at a time.
- 4) Client device is inserted in or placed directly in contact with the transmitter
 - 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.



Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

Temperature:	23.8°C	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

E-

F-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

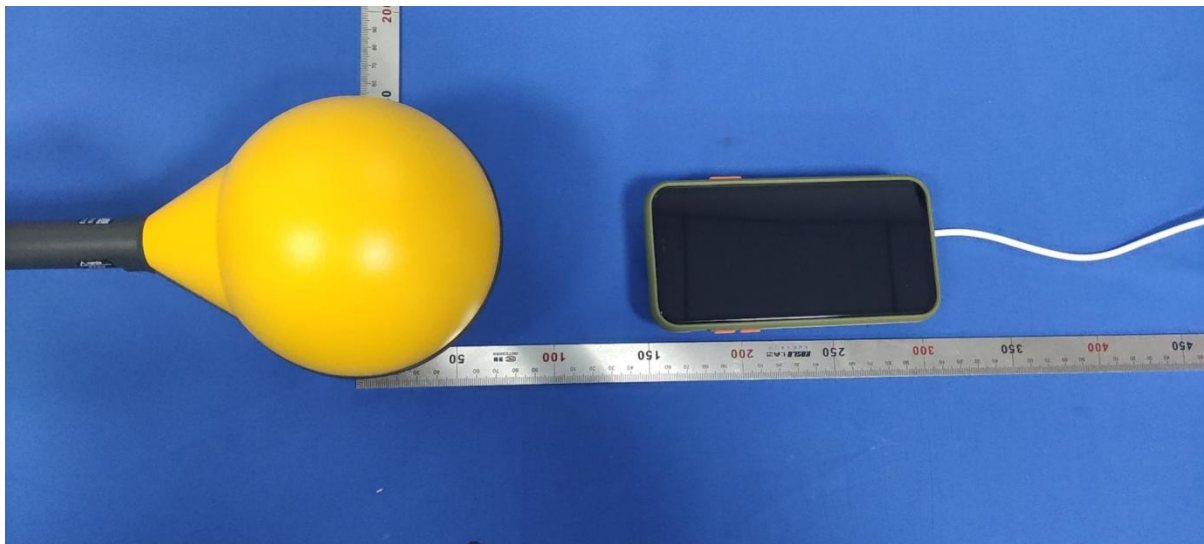
Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110.1~205	0.29	0.43	0.34	0.46	0.97	307	614
50%	110.1~205	1.63	1.47	1.48	1.37	1.56	307	614
99%	110.1~205	2.35	2.39	2.33	2.22	2.03	307	614
Stand-by	110.1~205	0.59	0.42	0.89	0.43	0.54	307	614

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
1%	110.1~205	0.059	0.051	0.046	0.043	0.065	0.815	1.63
50%	110.1~205	0.38	0.56	0.34	0.42	0.42	0.815	1.63
99%	110.1~205	0.34	0.59	0.42	0.32	0.53	0.815	1.63
Stand-by	110.1~205	0.37	0.23	0.7	0.34	0.31	0.815	1.63

Remark: All the conditions have been tested. It is found that 10W is the worst mode, and the data in the report only reflects the worst mode.

APPENDIX I -- TEST SETUP PHOTOGRAPH



*****THE END REPORT*****