

TEST REPORT

FCC ID: 2AOJOIBD-W01 Product: wireless charger Model No.: IBD-W01 Additional Model No.: N/A

Trade Mark: Trade Mark: Report No.: TCT171124E030 Issued Date: Dec. 14, 2017

Issued for:

Shenzhen LCF Technology Co.,Ltd. NO.19 2nd RoadXinfa XinqiaoShajing Street Bao' an District Shenzhen, China

Issued By:

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TCT通测检测 1. Test Certification

Product:	wireless charger
Model No.:	IBD-W01
Additional Model No.:	N/A
Trade Mark:	
Applicant:	Shenzhen LCF Technology Co.,Ltd.
Address:	NO.19 2nd RoadXinfa XinqiaoShajing Street Bao' an District Shenzhen, China
Manufacturer:	Shenzhen LCF Technology Co.,Ltd.
Address:	NO.19 2nd RoadXinfa XinqiaoShajing Street Bao' an District Shenzhen, China
Date of Test:	Nov. 06 – Dec.14, 2017
Applicable Standards:	FCC Rules and Regulations KDB680106

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Benyl than	Date:	Dec. 14, 2017
Reviewed By:	Beryl Zhao	Date:	Dec. 14, 2017
Approved By:	Tomsin	Date:	Dec. 14, 2017
	Tomsm		
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Test Result SummaryRequirementCFR 47 SectionResultRF EXPOSURE§1.1307(b)(1) & KDB680106PASS

Note:

2.

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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3. EUT Description

Product:	wireless charger
Model No.:	IBD-W01
Additional Model No.:	N/A
Trade Mark:	13D
Number of Channel	18 channels
Operation Frequency:	120-205KHz
Modulation Technology:	MSK
Antenna Type:	Coil Antenna
Antenna Gain:	20dBi

Operation Frequency each of channel

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	0.120	6	0.145	11	0.170	16	0.195
2	0.125	7	0.150	12	0.175	17	0.200
3	0.130	8	0.155	13	0.180	18	0.205
4	0.135	9	0.160	14	0.185	19	
5	0.140	10	0.165	15	0.190	20	

4. Genera Information

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4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.

The sample was placed (0.1m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
Adapter	HW-059200CHQ	K68247F5H01734	1	HUAWEI
Mobilephone	honor 9	5JPDU17610004560	/	honor

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

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

 FCC - Registration No.: 645098 Shenzhen Tongce Testing Lab The 3m Semi-anechoic chamber 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 The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%



6. Test Results and Measurement Data

6.1. RF EXPOSURE TEST

6.1.1. Test Specification

Test Requirement:	FCC Rules and Regulations KDB680106			
Test Method:	1.1307(b)(1) & KDB680106			
Limits:	According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v02: RF Exposure Wireless Charging Apps v02.			
Test Setup:	B0cm $A \leftarrow E$ $E \leftarrow B$ B B B B B C C C C C C C C			
Test Mode:	Charging + Transmitting Mode			
Test Procedure:	 The RF exposure test was performed on 360 degree turn table in anechoic chamber. The measurement probe was placed at test distance (10cm) which is between the edge of the charger and the geometric centre of probe. The turn table was rotated 360d degree to search of highest strength. The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed. The EUT were measured according to the dictates of KDB 680106D01v02. 			
Test Result:	PASS			

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m						Interval
1.	Exposure Level Tester	narda	ELT-400	N-0231	2017.09.29	1 Year
2.	Magnetic field probe 100cm2		ELT probe 100cm2	M0675	2017.09.29	1 Year

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Manufacturer Model No.

6.1.2. Test Instruments

Equipment

lte

Report No.: TCT171124E030

Serial No. Last Cal.

Cal.



6.1.3. Test data

For Full load mode:

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits
Range	Position	Position	Position	Position	Position	Limit	Test
(MHz)	А	В	С	D	E	(V/m)	(V/m)
0.120-0.205	1.24	1.15	1.21	1.32	1.22	184.2	614

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits
Range	Position	Position	Position	Position	Position	Limit	Test
(MHz)	А	В	С	D	E	(A/m)	(V/m)
0.120-0.205	0.26	0.21	0.17	0.16	0.17	0.489	1.63

For Half Load for wrist band mode:

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits
Range	Position	Position	Position	Position	Position	Limit	Test
(MHz)	А	В	С	D	E	(V/m)	(V/m)
0.120-0.205	1.18	1.12	1.21	1.25	1.16	184.2	614

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits
Range	Position	Position	Position	Position	Position	Limit	Test
(MHz)	А	В	С	D	E	(A/m)	(V/m)
0.120-0.205	0.17	0.22	0.16	0.13	0.15	0.489	1.63

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For Half Load for shoepod mode:

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits
Range	Position	Position	Position	Position	Position	Limit	Test
(MHz)	А	В	С	D	E	(V/m)	(V/m)
0.120-0.205	1.17	1.15	1.16	1.20	1.15	184.2	614

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H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits
Range	Position	Position	Position	Position	Position	Limit	Test
(MHz)	А	В	С	D	E	(A/m)	(V/m)
0.120-0.205	0.21	0.23	0.17	0.17	0.14	0.489	1.63

For No load mode:

E-Filed Strength at 10 cm from the edges surrounding the EUT (V/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits
Range	Position	Position	Position	Position	Position	Limit	Test
(MHz)	А	В	С	D	E	(V/m)	(V/m)
0.120-0.205	1.17	1.14	1.16	1.12	1.14	184.2	614

H-Filed Strength at 10 cm from the edges surrounding the EUT (A/m)

Frequency	Test	Test	Test	Test	Test	Reference	Limits
Range	Position	Position	Position	Position	Position	Limit	Test
(MHz)	А	В	С	D	E	(A/m)	(V/m)
0.120-0.205	0.17	0.22	0.16	0.15	0.14	0.489	1.63

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For Full load mode



For No load mode



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Appendix B: Photographs of EUT

Refer to test report TCT171124E027

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

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