MPE TEST REPORT

Report No:STS1807162W03

Issued for

Dongguan Jin wen hua digital technology Co., LTD.

NO.1 Hua Da Road, Long Bei Ling Village, Tangxia Town, Dongguan City, Guangdong, China

Product Name:	Wireless charger
Brand Name:	N/A
Model Name:	Q1
Series Model:	N/A
FCC ID:	2AFSGQ1
Test Standard:	FCC CFR 47 part 1, 1.1310

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TEST RESULT CERTIFICATION

Applicant's name ..... :	Dongguan Jin wen hua digital technology Co., LTD.
Address ..... :	NO.1 Hua Da Road, Long Bei Ling Village, Tangxia Town, Dongguan City, Guangdong, China
Manufacture's Name ..... :	Dongguan Jin wen hua digital technology Co., LTD.
Address ..... :	NO.1 Hua Da Road, Long Bei Ling Village, Tangxia Town, Dongguan City, Guangdong, China

Product description

Product Name ..... :	Wireless charger
Brand Name ..... :	N/A
Model Name ..... :	Q1
Series Model ..... :	N/A
Standards :	FCC CFR 47 part 1, 1.1310
Test Procedure :	680106 D01 RF Exposure Wireless Charging Apps v03

This device described above has been tested by STS, 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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Date of performance of tests: 13 July 2018 ~ 18 July 2018

Date of Issue : 20 July 2018

Test Result : **Pass**

Testing Engineer : Chris chen

(Chris chen)

Technical Manager : Sean She

(Sean she)

Authorized Signatory : Vita Li

(Vita Li)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	20 July 2018	STS1807162W03	ALL	Initial Issue

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:
FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.
Add. : 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
CNAS Registration No.: L7649; FCC Registration No.: 625569
IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ±**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	Uncertainty
1	All emissions,radiated(<30M)(9KHz-30MHz)	±2.45dB
2	Temperature	±0.5°C
3	Humidity	±2%

1.3 GENERAL DESCRIPTION OF EUT

Product Name	Wireless charger
Trade Name	N/A
Model Name	Q1
Series Model	N/A
Model Difference	N/A
Equipemnt Category	Non-ISM frequency
Operating frequency	127.5KHz
Modulation Type	ASK
Ratings	Input:12V-1.5A/5V-2A Output:9V-1A/5V-1A
Hardware version number	V1.1
Software version number	V1.0

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	NOTE
1	N/A	Q1	Coil	N/A	Antenna

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMF Meter	NARDA	ELT-400	N-0342	2017.10.23	2018.10.22

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time |E|²,|H|² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time |E|²,|H|² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

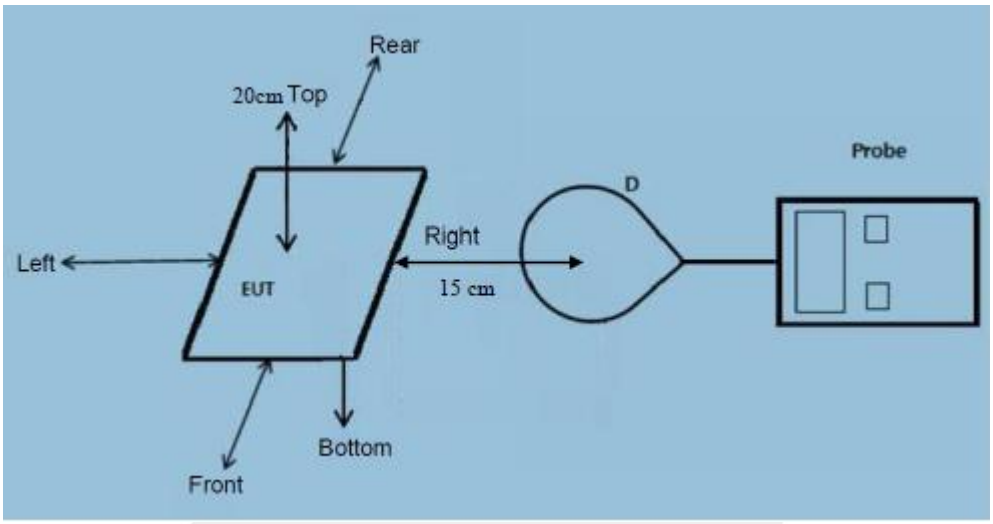
Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

Note 4: 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 .

2.2 TEST PROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

2.3 TEST SETUP



2.4 Test results

The EUT does comply with item 5 KDB680106 D01 v03.

(1) Power transfer frequency is less than 1 MHz.
(Conform)

(2) Output power from each primary coil is less than or equal to 15 watts.
(Conform)

(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.
(Conform)

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

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

(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.
(Conform)

2.5 MAXIMUM PERMISSIBLE EXPOSURE

E-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Calculated Value (A/m)	Calculated Value (V/m)	50% Limits Test(V/m)	Limits Test (V/m)	Result
< 1% Battery	Front	15	0.117	0.440	307	614	PASS
< 1% Battery	Rear	15	0.110	0.432			PASS
< 1% Battery	Left	15	0.109	0.439			PASS
< 1% Battery	Right	15	0.120	0.443			PASS
< 1% Battery	Top	20	0.121	0.453			PASS
H-Filed Strength							
Charging	Test Position	Test Distance (cm)	Measured Value(uT)	Calculated Value (A/m)	50% Limits Test(A/m)	Limits Test (A/m)	Result
< 1% Battery	A	15	0.146	0.117	0.815	1.63	PASS
< 1% Battery	B	15	0.138	0.110			PASS
< 1% Battery	C	15	0.136	0.109			PASS
< 1% Battery	D	15	0.150	0.120			PASS
< 1% Battery	E	20	0.151	0.121			PASS

Note: The aggregate H-filed strengths at 15cm surrounding the device and 20cm above the top surface.
A/m=uT/1.25

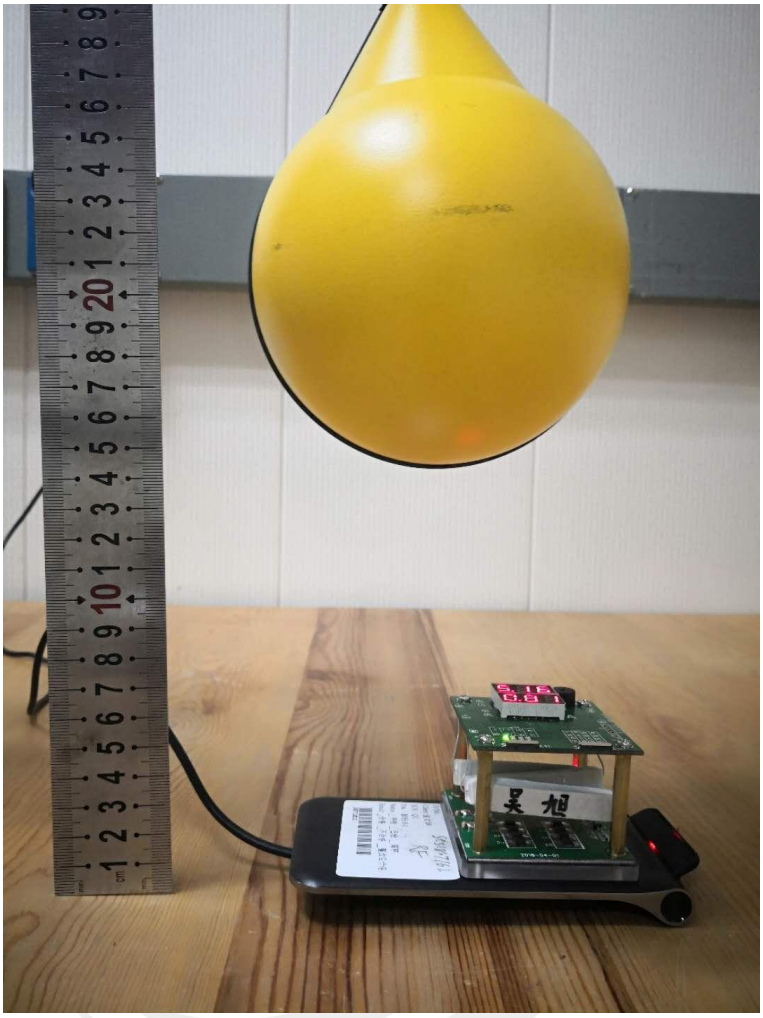
E-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Calculated Value (A/m)	Calculated Value (V/m)	50% Limits Test(V/m)	Limits Test (V/m)	Result
50% Battery	Front	15	0.105	0.445	307	614	PASS
50% Battery	Rear	15	0.107	0.429			PASS
50% Battery	Left	15	0.119	0.433			PASS
50% Battery	Right	15	0.115	0.437			PASS
50% Battery	Top	20	0.124	0.451			PASS
H-Filed Strength							
Charging	Test Position	Test Distance (cm)	Measured Value(uT)	Calculated Value (A/m)	50% Limits Test(A/m)	Limits Test (A/m)	Result
50% Battery	A	15	0.131	0.105	0.815	1.63	PASS
50% Battery	B	15	0.134	0.107			PASS
50% Battery	C	15	0.149	0.119			PASS
50% Battery	D	15	0.144	0.115			PASS
50% Battery	E	20	0.155	0.124			PASS

Note: The aggregate H-filed strengths at 15cm surrounding the device and 20cm above the top surface.
A/m=uT/1.25

E-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Calculated Value (A/m)	Calculated Value (V/m)	50% Limits Test(V/m)	Limits Test (V/m)	Result
＞99% Battery	Front	15	0.112	0.443	307	614	PASS
＞99% Battery	Rear	15	0.119	0.448			PASS
＞99% Battery	Left	15	0.105	0.435			PASS
＞99% Battery	Right	15	0.121	0.439			PASS
＞99% Battery	Top	20	0.126	0.455			PASS
H-Filed Strength							
Charging	Test Position	Test Distance (cm)	Measured Value(uT)	Calculated Value (A/m)	50% Limits Test(A/m)	Limits Test (A/m)	Result
＞99% Battery	A	15	0.140	0.112	0.815	1.63	PASS
＞99% Battery	B	15	0.149	0.119			PASS
＞99% Battery	C	15	0.131	0.105			PASS
＞99% Battery	D	15	0.151	0.121			PASS
＞99% Battery	E	20	0.158	0.126			PASS

Note: The aggregate H-filed strengths at 15cm surrounding the device and 20cm above the top surface.
A/m=uT/1.25

MPE SETUP PHOTO



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