







MPE TEST REPORT

Report No:STS1811110H01

Issued for

Shenzhen Joway Power Supply Co., Ltd.

Floor 1-5 of Bldg 10th and Bldg 11th, Antuoshan High-Tech Industrial Park, Sha'er Community, Shajing Street, Bao'an District, Shenzhen, China

Product Name:	Wireless Car Charger Mount
Brand Name:	JOWAY
Model Name:	WXC07
Series Model:	N/A
FCC ID:	2AEZ4WXC07
Test Standard:	FCC CFR 47 part 1, 1.1310

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L A R



TEST RESULT CERTIFICATION

	TEST RESULT CERTIFICATION		
Applicant's name:	Shenzhen Joway Power Supply Co., Ltd.		
Address:	Floor 1-5 of Bldg 10th and Bldg 11th, Antuoshan High-Tech Industrial Park, Sha'er Community, Shajing Street, Bao'an District, Shenzhen, China		
Manufacture's Name:	Shenzhen Joway Power Supply Co., Ltd.		
Address:	Floor 1-5 of Bldg 10th and Bldg 11th, Antuoshan High-Tech Industrial Park, Sha'er Community, Shajing Street, Bao'an District, Shenzhen, China		
Product description			
Product Name:	Wireless Car Charger Mount		
Brand Name:	JOWAY		
Model Name:	WXC07		
Series Model:	N/A		
Standards			
Date of Issue:	18 Dec.2018		
Test Result :	Pass		
Testing Enginee	r: Chins cher		
Technical Mana	(Chris chen) Ger : (Sunday Hu)		
Authorized Sign	atory:		

(Vita Li)



Table of Contents	Page
1. SUMMARY OF TEST RESULTS	5
1.1 TEST FACTORY	5
1.2 MEASUREMENT UNCERTAINTY	5
1.3 GENERAL DESCRIPTION OF EUT	6
1.4 EQUIPMENTS LIST FOR ALL TEST ITEMS	7
2. MAXIMUM PERMISSIBLE EXPOSURE	8
2.1 MAXIMUM PERMISSIBLE EXPOSURE	8
2.2 TEST PROCEDURE	9
2.3 TEST SETUP	9
2.4 TEST RESULTS	9
2.5 MAXIMUM PERMISSIBI E EXPOSURE	10



Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	18 Dec.2018	STS1811110H01	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,	Electric Field Strength (E) (V/m)	PASS			
1.1310 KDB680106 D01v03	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

FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

1.2 MEASUREMENT UNCERTAINTY

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

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 Car Charger Mount
Trade Name	JOWAY
Model Name	WXC07
Series Model	N/A
Model Difference	N/A
Equipemnt Category	Non-ISM frequency
Operating frequency	110.5-205KHZ
Power Rating:	Input: 5V/2A, 9V/1.67A (QC) Output: 5W,7.5W,10W (max)
Modulation Type	ASK
Hardware version number	WXC07V1.0
Software version number	WXC801-JW09-3

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	JOWAY	WXC07	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	2018.10.22	2019.10.21
EMF probe	NARDA	B-Field Probe	M-0779	2018.10.22	2019.10.21
Broadband field meter NARDA NBM	550	Broadband field meter NARDA NBM	E-1275	2018.10.22	2019.10.21
Broadband field probe NARDA EF	0391	Broadband field probe NARDA EF	D-0894	2018.10.22	2019.10.21





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.

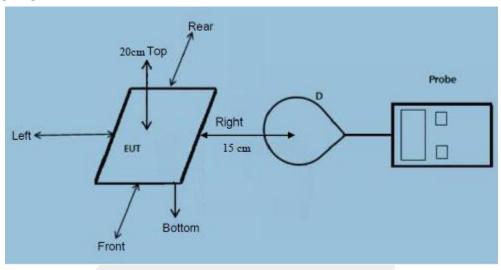
Note 4: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit .



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.

- 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

5V

Maximum Permissible Exposure					
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)	
< 1% Battery	15cm	Front	0.443	0.105	
< 1% Battery	15cm	Rear	0.44	0.114	
< 1% Battery	15cm	Left	0.435	0.124	
< 1% Battery	15cm	Right	0.435	0.12	
< 1% Battery	20cm	Тор	0.468	0.132	
Limit			614	1.63	
	Margin Limit (%)			8.10%	

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	15cm	Front	0.446	0.113
50% Battery	15cm	Rear	0.436	0.099
50% Battery	15cm	Left	0.434	0.113
50% Battery	15cm	Right	0.448	0.128
50% Battery	20cm	Тор	0.477	0.142
Limit			614	1.63
Margin Limit (%)			0.08%	8.71%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
>99% Battery	15cm	Front	0.442	0.1
>99% Battery	15cm	Rear	0.427	0.113
>99% Battery	15cm	Left	0.432	0.113
>99% Battery	15cm	Right	0.443	0.127
>99% Battery	20cm	Тор	0.469	0.137
Limit			614	1.63
Margin Limit (%)			0.08%	8.40%



9V

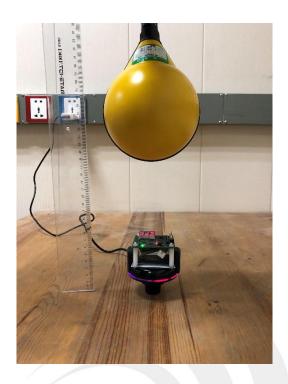
Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
< 1% Battery	15cm	Front	0.454	0.108
< 1% Battery	15cm	Rear	0.422	0.117
< 1% Battery	15cm	Left	0.435	0.118
< 1% Battery	15cm	Right	0.444	0.125
< 1% Battery	20cm	Тор	0.465	0.133
Limit			614	1.63
Margin Limit (%)			0.08%	8.16%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
50% Battery	15cm	Front	0.46	0.114
50% Battery	15cm	Rear	0.423	0.111
50% Battery	15cm	Left	0.436	0.12
50% Battery	15cm	Right	0.444	0.12
50% Battery	20cm	Тор	0.465	0.149
Limit			614	1.63
Margin Limit (%)			0.08%	9.14%

Maximum Permissible Exposure				
Charging	Separation	Probe from EUT Side	E-field (V/m)	H-field (A/m)
>99% Battery	15cm	Front	0.45	0.12
>99% Battery	15cm	Rear	0.428	0.106
>99% Battery	15cm	Left	0.421	0.113
>99% Battery	15cm	Right	0.445	0.109
>99% Battery	20cm	Тор	0.468	0.134
Limit			614	1.63
Margin Limit (%)			0.08%	8.22%



MPE SETUP PHOTO



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