





MPE TEST REPORT

Report No:STS1901076H01

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 Charger |
|----------------|---------------------------|
| Brand Name: | JOWAY |
| Model Name: | WXC08 |
| Series Model: | N/A |
| FCC ID: | 2AEZ4WXC08 |
| Test Standard: | FCC CFR 47 part 1, 1.1310 |

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APPROVAL

Shenzhen STS Test Services Co., Ltd.

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TEST RESULT CERTIFICATION

| • | | | |
|--|--|--|--|
| Applicant's name: Address: | 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 | | |
| 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 | Diotriot, Official Communications, Official Co | | |
| Product Name | Wireless Charger JOWAY | | |
| Model Name: | WXC08 | | |
| Series Model: | N/A | | |
| under test (EUT) is in compliance v sample identified in the report. This report shall not be reproduced | FCC CFR 47 part 1, 1.1310 680106 D01 RF Exposure Wireless Charging Apps v03 leen tested by STS, the test results show that the equipment with the FCC requirements. And it is applicable only to the tested d except in full, without the written approval of STS, this document personal only, and shall be noted in the revision of the document. 16 Jan. 2019 ~ 25 Jan. 2019 | | |
| Date of Issue : | 28 Jan. 2019 | | |
| Test Result : | Pass | | |
| Testing Engineer | this cher | | |
| Technical Manage | (Chris chen) (Chris chen) (Sunday Hu) | | |
| Authorized Signat | A Puli | | |

(Vita Li)



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Revision History

| Rev. | Issue Date | Report NO. | Effect Page | Contents |
|------|--------------|---------------|-------------|---------------|
| 00 | 28 Jan. 2019 | STS1901076H01 | 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 $\mathbf{95}$ %.

| No. | Item | Uncertainly |
|-----|--|-------------|
| 1 | All emissions,radiated 30-200MHz | ±3.43dB |
| 2 | All emissions,radiated 200MHz-1GHz | ±3.57dB |
| 3 | All emissions,radiated(<30M)(9KHz-30MHz) | ±2.45dB |
| 4 | Conducted Emission(150KHz-30MHz) | ±2.70dB |



1.3 GENERAL DESCRIPTION OF EUT

| Product Name | Wireless Charger |
|-------------------------|--|
| Trade Name | JOWAY |
| Model Name | WXC08 |
| Series Model | N/A |
| Model Difference | N/A |
| Equipemnt Category | Non-ISM frequency |
| Operating frequency | 110.5-205KHZ |
| Modulation Type | MPE |
| Power Rating: | Input: DC 5V/2A ,9V/1.67A(QC) Output: 5W,7.5W,10W |
| Hardware version number | WXC801-WXC08-1 |
| Software version number | Please refer to the User's Manual |

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 | WXC08 | Coil | NA | 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.

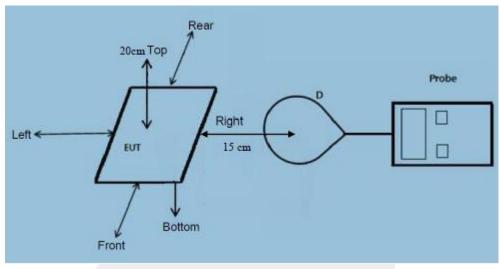
Note 4: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.



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.

- (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

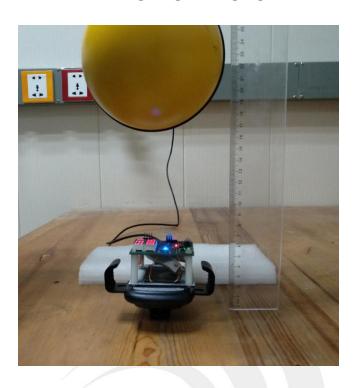
| Maximum Permissible Exposure | | | | | |
|------------------------------|------------|---------------------|---------------|---------------|--|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) | |
| < 1% Battery | 15cm | Front | 0.443 | 0.11 | |
| < 1% Battery | 15cm | Rear | 0.429 | 0.115 | |
| < 1% Battery | 15cm | Left | 0.426 | 0.124 | |
| < 1% Battery | 15cm | Right | 0.435 | 0.132 | |
| < 1% Battery | 20cm | Тор | 0.468 | 0.147 | |
| Limit | | | 614 | 1.63 | |
| Margin Limit (%) | | | 0.08% | 9.02% | |

| Maximum Permissible Exposure | | | | | | |
|------------------------------|------------|---------------------|---------------|---------------|--|--|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) | | |
| 50% Battery | 15cm | Front | 0.459 | 0.116 | | |
| 50% Battery | 15cm | Rear | 0.435 | 0.108 | | |
| 50% Battery | 15cm | Left | 0.428 | 0.133 | | |
| 50% Battery | 15cm | Right | 0.452 | 0.123 | | |
| 50% Battery | 20cm | Тор | 0.466 | 0.14 | | |
| | Li | 614 | 1.63 | | | |
| | Margin | 0.08% | 8.59% | | | |

| Maximum Permissible Exposure | | | | | | |
|------------------------------|------------|---------------------|---------------|---------------|--|--|
| Charging | Separation | Probe from EUT Side | E-field (V/m) | H-field (A/m) | | |
| >99% Battery | 15cm | Front | 0.452 | 0.117 | | |
| >99% Battery | 15cm | Rear | 0.441 | 0.114 | | |
| >99% Battery | 15cm | Left | 0.435 | 0.114 | | |
| >99% Battery | 15cm | Right | 0.435 | 0.129 | | |
| >99% Battery | 20cm | Тор | 0.459 | 0.141 | | |
| | Lim | 614 | 1.63 | | | |
| Margin Limit (%) | | | 0.07% | 8.65% | | |



MPE SETUP PHOTO



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