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Human Exposure Report

| Test Result : | Pass* | |
|--|---|--|
| Date of Issue: | 2018-03-30 | |
| Date of Test: | 2018-03-26 | |
| Date of Receipt: | 2018-03-21 | |
| Standards: | 47 CFR PART 1, Subpart I, Section 1.1310 | |
| FCC ID: | ZBCWD51Y3 | |
| Trade Mark: | Please refer to section 2 | |
| ÷. | Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical. | |
| Model No.: | Please refer to section 2 . | |
| EUT Name: | WIRELESS CHARGER, Wireless charging pad | |
| Equipment Under Test (EUT) |): | |
| Address of Factory: | LONGJIN DONGJIANG INDUSTRY ZONE, SHUIKOU, HUICHENG, HUIZHOU, GUANGDONG, CHINA | |
| Factory: | HUIZHOU D&S CABLE CO., LTD. | |
| Address of Applicant/ Manufacturer: | 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China 518026 | |
| Applicant/ Manufacturer: | SHENZHEN DNS INDUSTRIES CO., LTD. | |
| Application No.: | SZEM1803002109CR | |

* In the configuration tested, the EUT complied with the standards specified above.



EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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| | Revision Record | | | | |
|---------|-----------------|------------|----------|----------|--|
| Version | Chapter | Date | Modifier | Remark | |
| 01 | | 2018-03-30 | | Original | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | | |
|--------------------------|------------------------------|---|
| | Peter Groug | |
| | Peter Geng /Project Engineer | - |
| | Evic Fu | |
| | Eric Fu /Reviewer | - |



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3 General Information

3.1 Details of E.U.T.

| Power supply: | Input: DC 5V/2A, 9V/2A |
|----------------------|--|
| | Output: DC 5V/1A, 9V/1.1A |
| Cable: | USB line: 100cm, unshielded |
| Operation frequency: | 116.4-162.8 kHz |
| Modulation type: | Load modulation |
| Antenna type: | Inductive Loop Coil Antenna |
| Remark: | Tests were conducted in both loads and the worst case (DC $9V/1.1A$) is |
| | reported only. |

3.2 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. | Serial No. |
|--------------------|------------------------------|-----------|--------------------------------------|
| AC/DC Wall Charger | LINOCELL(provided by client) | 97431 | Output: DC 5V/3A, 9V/2A, 12V/1.5A |
| E-charging | provided by client | N/A | DC 5V/1A |
| Mobile Phone | SAMSUNG | SM-G9500 | R28J9140LPB |

Declaration of EUT Family Grouping:

Model No.: WD51Y3, WD52Y3, AC52YH, AC51YH, 22894, P308.96, WCHAQ10W2BK, CH-021BL, 00178976, 00183375, CWC-7500-BK, CWC-7500-WH, SL-690401-BK, OWL-QI10W-SI, OWL-QI10W-BK, OWL-QI10W02-BK, 276-882107

Only the model WD51Y3 was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on appearance and model number.



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| Trade mark | Model number | Description |
|------------------|----------------|-----------------------|
| DNS,omars | WD52Y3 | rectangles appearance |
| DNS,omars | AC52YH | rectangles appearance |
| DNS,omars | WD51Y3 | Square appearance |
| DNS,omars | AC51YH | Square appearance |
| Trust | 22894 | rectangles appearance |
| Swiss Peak | P308.96 | Square appearance |
| Nedis | WCHAQ10W2BK | Square appearance |
| Sweex | CH-021BL | Square appearance |
| Hama | 00178976 | rectangles appearance |
| Hama | 00183375 | rectangles appearance |
| Connect IT | CWC-7500-BK | rectangles appearance |
| Connect IT | CWC-7500-WH | rectangles appearance |
| Winspeed | SL-690401-BK | rectangles appearance |
| OWLTECH、LIFE EGG | OWL-QI10W-SI | Square appearance |
| OWLTECH、LIFE EGG | OWL-QI10W-BK | Square appearance |
| OWLTECH、LIFE EGG | OWL-QI10W02-BK | rectangles appearance |
| HAMEE | 276-882107 | Square appearance |

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3.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

3.4 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.

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4 Equipments Used during Test

| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Due date (yyyy-mm-dd) |
|------|-----------------------------|--------------|-----------|------------------|-------------------------------|
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2018-06-10 |
| 2 | Electric Field Meter | Schaffner | EMC20 | EMC068 | 2019-03-21 |

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5 Test Results

5.1 RF Exposure test

Test Requirement:47 CFR PART 1, Subpart I, Section 1.1310Measurement Distance:10cm

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 Occ | cupational/Controlled Ex | posures | |
| 0.3-3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0-30 | 1842/f | 4.89/f | *(900/f²) | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | / | / | f/300 | 6 |
| 1500-100,000 | / | / | 5 | 6 |
| | (B) Limits for Genera | I Population/Uncontrolle | d Exposure | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f²) | 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).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1015 mbar

EUT Operation:

This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

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5.1.2 Measurement Data

1: Output Voltage=DC 9V; The max output power =10W;Calculation of resistor value=8.2Ω Electric Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (V/m) | 30% Limit (V/m) |
|------------------------|-----------------------|---------------|-------------------------------|--------------------|
| | | Side 1 | 3.52 | 184.2 |
| | | Side 2 | 3.25 | 184.2 |
| 156.3 kHz | 10 | Side 3 | 3.58 | 184.2 |
| 100.0 KHZ | | Side 4 | 3.61 | 184.2 |
| | | Тор | 3.41 | 184.2 |

Magnetic Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 30% Limit (A/m) |
|------------------------|-----------------------|---------------|-------------------------------|--------------------|
| | | Side 1 | 0.0451 | 0.489 |
| | | Side 2 | 0.0463 | 0.489 |
| 156.3 kHz | 10 | Side 3 | 0.0447 | 0.489 |
| | | Side 4 | 0.0457 | 0.489 |
| | | Тор | 0.0785 | 0.489 |

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4:Mobile phone has been charge at zero charge, intermediate charge, and full charge.

| Operation | Test Distance (cm) | Test Position | Probe Measure Result(V/m) | | | 30%Limit |
|-----------|--------------------------|------------------|---------------------------|------------------------|----------------|----------|
| frequency | | | zero charge | intermediate charge | full charge | (V/m) |
| 156.3 kHz | 10 | Side 1 | 3.52 | 3.56 | 3.50 | 184.2 |
| | | Side 2 | 3.22 | 3.25 | 3.29 | 184.2 |
| | | Side 3 | 3.54 | 3.57 | 3.51 | 184.2 |
| | | Side 4 | 3.65 | 3.68 | 3.60 | 184.2 |
| | | Тор | 3.44 | 3.48 | 3.41 | 184.2 |

Electric Field Emissions

Magnetic Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result(A/m) | | | 30%Limit |
|------------------------|--------------------------|------------------|---------------------------|------------------------|----------------|----------|
| | | | zero charge | intermediate charge | full charge | (A/m) |
| 156.3 kHz | 10 | Side 1 | 0.0457 | 0.0452 | 0.0451 | 0.489 |
| | | Side 2 | 0.0463 | 0.0466 | 0.0469 | 0.489 |
| | | Side 3 | 0.0447 | 0.0443 | 0.0447 | 0.489 |
| | | Side 4 | 0.0461 | 0.0456 | 0.0468 | 0.489 |
| | | Тор | 0.0789 | 0.0784 | 0.0796 | 0.489 |

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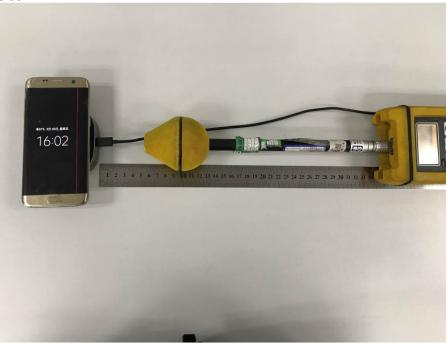
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6 Photographs

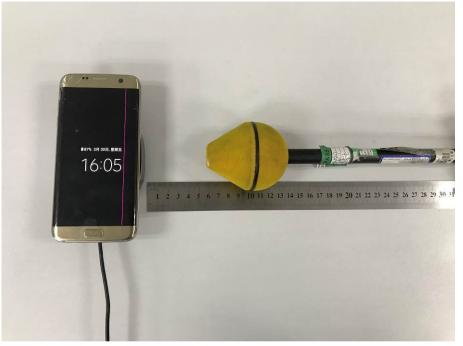
6.1 Test photos

Test with mobile phone with 10cm measurement distance

Side 1



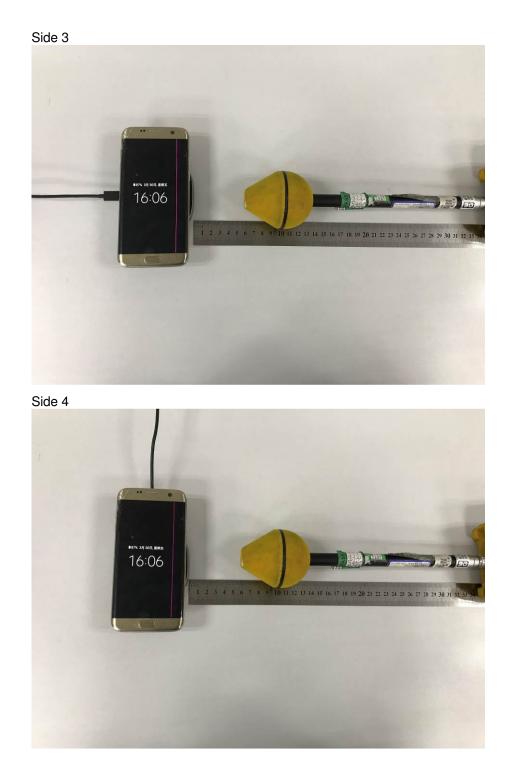
Side 2



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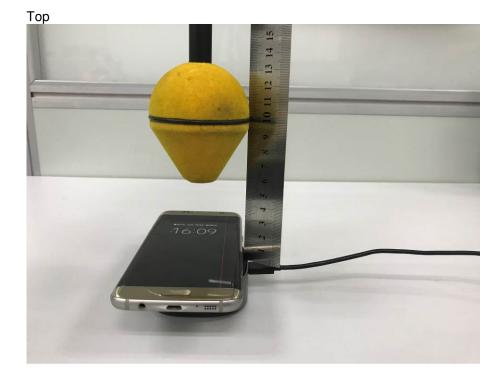
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- End of the Report -

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