



Report No.: SZEM190501426102

Page: 1 of 13

Human Exposure Report

Application No.:

SZEM1905014261CR

Applicant:

SHENZHEN DNS INDUSTRIES CO., LTD.

Address of Applicant:

23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China

Manufacturer:

SHENZHEN DNS INDUSTRIES CO., LTD.

Address of Manufacturer:

23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China

Factory:

HUIZHOU D&S CABLE CO., LTD.

Address of Factory:

Longjin Dongjiang Industry Zone, Shuikou, Huicheng, Huizhou, Guangdong, China.

Equipment Under Test (EUT):

Wireless Charger

EUT Name:

Please refer to section 3.1 *

Model No.:

Please refer to section 3.1 of this report which indicates which model was actually tested and which were electrically identical.

Trade mark:

Please refer to section 3.1

FCC ID:

ZBCAC52CLZT

Standards:

47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Date of Receipt:

2019-05-22

Date of Test:

2019-05-22 to 2019-06-21

Date of Issue:

2019-06-24

| | |
|----------------------|-------|
| Test Result : | Pass* |
|----------------------|-------|

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

Keny Xu
EMC Laboratory Manager



SGS-CSTC Shenzhen Technical Services Co., Ltd.
Shenzhen Branch - EMC Laboratory

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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2019-06-24 | | Original |
| | | | | |
| | | | | |

| | | | |
|--------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  _____ Powell Bao /Project Engineer | |
| | |  _____ Eric Fu /Reviewer | |

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3 General Information

3.1 Details of E.U.T.

| | |
|----------------------|---|
| Power Supply: | Input: DC5V 2A, DC9V 2A, DC12V 2A |
| | Output: DC5V 1A, or DC9V 1.67A |
| | or DC12V 1.25A, Max. 15W |
| Antenna Type: | Loop Antenna |
| Antenna Gain: | 0dBi |
| Modulation Type: | Load Modulation |
| Operation Frequency: | 113.68kHz to 141.04kHz |
| Remark: | Tests were conducted in all three load modes and the worst case 15W is reported only. |



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Remark:

Model No.:AC52CLZT, AC51CLZT, 24629, WCHAQ15W1WT, WCHAQ15W1BK, 66584, 65720, 65752, 107171, WFC15, EGA-PQC1-B1, 24002, QIPADMETSI, QIPADMETSG, G-WC15WQI-K, 22900, 85352300, 348203, 85352400, LP-QI05SV, LP-QI05BK, QI15WA, Q15WKIT, QIPADMETSI, QIPADMETSG, WC150-BLK, LBT15W, LBT15WBU, IAD8X15ULBK, IAD8X15VEBK, IAD8X15BSBK, 33205

Only the model AC52CLZT was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name and enclosure shape.

| Trade Mark | Model Name | Enclosure shape code |
|------------|-------------|----------------------|
| DNS, mbest | AC52CLZT | AC52 |
| DNS, mbest | AC51CLZT | AC51 |
| mworks! | 24629 | AC51 |
| TecoAsia | WCHAQ15W1WT | AC52 |
| TecoAsia | WCHAQ15W1BK | AC52 |
| WAP | 66584 | AC52 |
| Verbatim | 65720 | AC51 |
| Verbatim | 65752 | AC52 |
| iGizmo | 107171 | AC52 |
| Comsol | WFC15 | AC51 |
| Milestone | EGA-PQC1-B1 | AC51 |
| Deppa | 24002 | AC51 |
| kit | QIPADMETSI | AC51 |
| kit | QIPADMETSG | AC51 |
| AZYAN | G-WC15WQI-K | AC51 |
| Trust | 22900 | AC52 |
| Maxell | 85352300 | AC52 |
| Maxell | 348203 | AC52 |
| Maxell | 85352400 | AC52 |
| MS | LP-QI05SV | AC51 |
| MS | LP-QI05BK | AC51 |
| Alfacomex | QI15WA | AC51 |
| Cirago | Q15WKIT | AC51 |
| KONDOR | QIPADMETSI | AC51 |
| KONDOR | QIPADMETSG | AC51 |

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| | | |
|------------|-------------|------|
| Concept101 | WC150-BLK | AC51 |
| Libratel | LBT15W | AC52 |
| Libratel | LBT15WBU | AC52 |
| iLuv | IAD8X15ULBK | AC52 |
| iLuv | IAD8X15VEBK | AC52 |
| iLuv | IAD8X15BSBK | AC52 |
| Cultura | 33205 | AC52 |

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3.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|------------------------------|-----------------------|-----------|--------------|
| iPhone 8 | Apple | A1863 | F4GVQ656JC6D |
| SAMSUNG Galaxy S8 | SAMSUNG | SM-G9500 | R28J9140LPB |
| E-Load | Provided by client | N/A | 15W |
| Adapter (Provided by SGS) | LeTV | EQ-248CN | 16041847014 |

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3.3 Test Location

All tests were performed at:

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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.

- **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

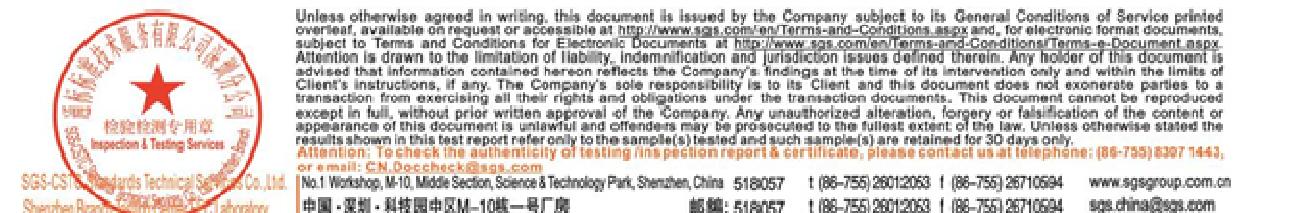
IC#: 4620C.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



4 Equipments Used during Test

| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Due date (yyyy-mm-dd) |
|------|--------------------------------------|--------------|-----------|---------------|----------------------------|
| 1 | Electric and Magnetic Field Analyzer | Narda | EHP-50F | EMC092 | 2020-02-05 |

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5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

Measurement Distance: 15cm

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 Occupational/Controlled Exposures | | | | |
| 0.3-3.0 | 614 | 1.63 | *(100) | 6 |
| 3.0-30 | 1842/f | 4.89/f | *(900/f ²) | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | / | / | f/300 | 6 |
| 1500-100,000 | / | / | 5 | 6 |
| (B) Limits for General Population/Uncontrolled Exposure | | | | |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34-30 | 824/f | 2.19/f | *(180/f ²) | 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**Output Voltage=DC 12V; The max output power =15W;****Electric Field Emissions**

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (V/m) | 50% Limit (V/m) |
|---------------------|--------------------|---------------|----------------------------|-----------------|
| 140.5 kHz | 15 | Side 1 | 1.23 | 307 |
| | | Side 2 | 2.17 | 307 |
| | | Side 3 | 0.88 | 307 |
| | | Side 4 | 1.52 | 307 |
| | | Top | 2.47 | 307 |

Magnetic Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 50% Limit (A/m) |
|---------------------|--------------------|---------------|----------------------------|-----------------|
| 140.5 kHz | 15 | Side 1 | 0.0268 | 0.815 |
| | | Side 2 | 0.0423 | 0.815 |
| | | Side 3 | 0.0294 | 0.815 |
| | | Side 4 | 0.0531 | 0.815 |
| | | Top | 0.0723 | 0.815 |

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Mobile phone has been charge at zero charge, intermediate charge, and full charge.**Electric Field Emissions**

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result(V/m) | | | 50%Limit (V/m) |
|---------------------|--------------------|---------------|---------------------------|---------------------|-------------|----------------|
| | | | zero charge | intermediate charge | full charge | |
| 140.5 kHz | 15 | Side 1 | 1.51 | 1.35 | 1.12 | 307 |
| | | Side 2 | 2.45 | 2.23 | 2.02 | 307 |
| | | Side 3 | 1.18 | 0.93 | 0.74 | 307 |
| | | Side 4 | 1.79 | 1.58 | 1.33 | 307 |
| | | Top | 2.72 | 2.45 | 2.24 | 307 |

Magnetic Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result(A/m) | | | 50%Limit (A/m) |
|---------------------|--------------------|---------------|---------------------------|---------------------|-------------|----------------|
| | | | zero charge | intermediate charge | full charge | |
| 140.5 kHz | 15 | Side 1 | 0.0425 | 0.0299 | 0.0172 | 0.815 |
| | | Side 2 | 0.0531 | 0.0412 | 0.0259 | 0.815 |
| | | Side 3 | 0.0396 | 0.0273 | 0.0139 | 0.815 |
| | | Side 4 | 0.0642 | 0.0531 | 0.0387 | 0.815 |
| | | Top | 0.0826 | 0.0712 | 0.0566 | 0.815 |

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6 Photographs

Please refer to RF Exposure setup photo.

- End of the Report -



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