# Human Exposure Report

| | |
|---|---|
| **Application No.:** | SZEM1910019771CR |
| **Applicant:** | HANK Electronics Co., Ltd. |
| **Address of Applicant:** | Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China |
| **Manufacturer:** | HANK Electronics Co., Ltd. |
| **Address of Manufacturer:** | Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China |
| **Factory:** | HANK Electronics Co., Ltd. |
| **Address of Factory:** | Floor 2nd-7th, A8, Hongye Industry City, Lezhujiao, Zhoushi Road, Baoan District, Shenzhen, China |
| **Equipment Under Test (EUT):** | |
| **EUT Name:** | Wireless Charger Holder |
| **Model No.:** | HKWP1671-10E |
| **FCC ID:** | 2AIOC-1671 |
| **Standards:** | 47 CFR PART 1, Subpart I, Section 1.1310<br>47 CFR PART 2, Subpart J, Section 2.1093 |
| **Date of Receipt:** | 2019-10-31 |
| **Date of Test:** | 2019-11-01 to 2019-11-19 |
| **Date of Issue:** | 2019-11-20 |
| **Test Result :** | **Pass*** |

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

Keny Xu
EMC Laboratory Manager

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| Revision Record | | | | |
|---|---|---|---|---|
| ***Version*** | ***Chapter*** | ***Date*** | ***Modifier*** | ***Remark*** |
| *01* | | *2019-11-20* | | *Original* |
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|---|---|---|---|---|
| **Authorized for issue by:** | | | | |
| | | Bill Chen<br>**Bill Chen /Project Engineer** | | |
| | | Eric Fu<br>**Eric Fu /Reviewer** | | |

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# 3 General Information

## 3.1 Details of E.U.T.

| | |
|---|---|
| Power Supply: | Car charger：<br>Input:DC 12V-24V<br>Output:DC 5V ⎓ 2.4A<br>Output QC 3.0:DC 5V ⎓ 3A,9V ⎓ 2A,12V ⎓ 1.5A<br>Wireless charger：<br>Input:DC 5V ⎓ 2A,9V ⎓ 1.7A,12V ⎓ 1.25A<br>Output: 10W Max |
| Cable: | USB cable:100cm unshielded |
| Antenna Type: | Loop Antenna |
| Antenna Gain: | 0dBi |
| Modulation Type: | Load Modulation |
| Operation Frequency: | 113.301KHz to 146.635kHz |
| Remark: | This device has been tested the worst status of full load and the device has been tested with load at 5W,7.5W and 10W,the worst case 10W is reported only. |

## 3.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| iPhone 8 | Apple | A1863 | F4GVQ656JC6D |
| Rechargeable Battery | Gadlee | DP00027 | REF. No.SEA2800 |
| SAMSUNG Galaxy S8 | SAMSUNG | SM-G9500 | R28J9140LPB |

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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:

• **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.

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# 4 Equipments Used during Test

| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Due date |
|---|---|---|---|---|---|
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2020-06-10 |
| 2 | Electric and Magnetic Field Analyzer | Narda | EHP-50F | EMC092 | 2020-05-06 |

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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: 0/2/4/6/8/10/15cm

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: 25.0 °C Humidity: 53 % RH Atmospheric Pressure: 1015 mbar

**EUT Operation:**

This device had 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 9V; The max output power =10W**

**Magnetic Field Emissions**

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 50% Limit (A/m) |
|---|---|---|---|---|
| 123 kHz | 0 | Side 1 | 0.3971 | 0.815 |
| | | Side 2 | 0.7968 | 0.815 |
| | | Side 3 | 0.2704 | 0.815 |
| | | Side 4 | 0.7042 | 0.815 |
| | | Top | 0.5129 | 0.815 |

**Magnetic Field Emissions**

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 50% Limit (A/m) |
|---|---|---|---|---|
| 123 kHz | 2 | Side 1 | 0.3397 | 0.815 |
| | | Side 2 | 0.7235 | 0.815 |
| | | Side 3 | 0.2193 | 0.815 |
| | | Side 4 | 0.6338 | 0.815 |
| | | Top | 0.4539 | 0.815 |

**Magnetic Field Emissions**

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 50% Limit (A/m) |
|---|---|---|---|---|
| 123 kHz | 4 | Side 1 | 0.2930 | 0.815 |
| | | Side 2 | 0.6653 | 0.815 |
| | | Side 3 | 0.1797 | 0.815 |
| | | Side 4 | 0.5730 | 0.815 |
| | | Top | 0.4044 | 0.815 |

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**Magnetic Field Emissions**

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 50% Limit (A/m) |
|---|---|---|---|---|
| 123 kHz | 6 | Side 1 | 0.2548 | 0.815 |
| | | Side 2 | 0.6270 | 0.815 |
| | | Side 3 | 0.1429 | 0.815 |
| | | Side 4 | 0.5394 | 0.815 |
| | | Top | 0.3705 | 0.815 |

Magnetic Field Emissions

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 50% Limit (A/m) |
|---|---|---|---|---|
| 123 kHz | 8 | Side 1 | 0.2216 | 0.815 |
| | | Side 2 | 0.5921 | 0.815 |
| | | Side 3 | 0.1103 | 0.815 |
| | | Side 4 | 0.5026 | 0.815 |
| | | Top | 0.3351 | 0.815 |

**Magnetic Field Emissions**

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 50% Limit (A/m) |
|---|---|---|---|---|
| 123 kHz | 10 | Side 1 | 0.1913 | 0.815 |
| | | Side 2 | 0.5594 | 0.815 |
| | | Side 3 | 0.0759 | 0.815 |
| | | Side 4 | 0.4634 | 0.815 |
| | | Top | 0.2982 | 0.815 |

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**Magnetic Field Emissions**

| Operation frequency | Test Distance (cm) | Test Position | Probe Measure Result (A/m) | 50% Limit (A/m) |
|---|---|---|---|---|
| 123 kHz | 15 | Side 1 | 0.1194 | 0.815 |
| | | Side 2 | 0.4906 | 0.815 |
| | | Side 3 | 0.0420 | 0.815 |
| | | Side 4 | 0.3935 | 0.815 |
| | | Top | 0.2459 | 0.815 |

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

**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 | |
| 123 kHz | 0 | Side 1 | 0.4102 | 0.3979 | 0.3935 | 0.815 |
| | | Side 2 | 0.8092 | 0.7966 | 0.7916 | 0.815 |
| | | Side 3 | 0.2798 | 0.2691 | 0.2641 | 0.815 |
| | | Side 4 | 0.7141 | 0.7004 | 0.6959 | 0.815 |
| | | Top | 0.5222 | 0.5069 | 0.5031 | 0.815 |

**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 | |
| 123 kHz | 2 | Side 1 | 0.3487 | 0.3342 | 0.3307 | 0.815 |
| | | Side 2 | 0.7363 | 0.7232 | 0.7183 | 0.815 |
| | | Side 3 | 0.2313 | 0.2188 | 0.2142 | 0.815 |
| | | Side 4 | 0.6444 | 0.6324 | 0.6290 | 0.815 |
| | | Top | 0.4659 | 0.4556 | 0.4509 | 0.815 |

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**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 | |
| 123 kHz | 4 | Side 1 | 0.3018 | 0.2877 | 0.2827 | 0.815 |
| | | Side 2 | 0.6785 | 0.6656 | 0.6619 | 0.815 |
| | | Side 3 | 0.1923 | 0.1794 | 0.1756 | 0.815 |
| | | Side 4 | 0.5861 | 0.5724 | 0.5678 | 0.815 |
| | | Top | 0.4166 | 0.4013 | 0.3963 | 0.815 |

**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 | |
| 123 kHz | 6 | Side 1 | 0.2672 | 0.2553 | 0.2518 | 0.815 |
| | | Side 2 | 0.6364 | 0.6237 | 0.6185 | 0.815 |
| | | Side 3 | 0.1555 | 0.1436 | 0.1388 | 0.815 |
| | | Side 4 | 0.5482 | 0.5368 | 0.5328 | 0.815 |
| | | Top | 0.3829 | 0.3683 | 0.3638 | 0.815 |

**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 | |
| 123 kHz | 8 | Side 1 | 0.2326 | 0.2207 | 0.2173 | 0.815 |
| | | Side 2 | 0.6014 | 0.5886 | 0.5841 | 0.815 |
| | | Side 3 | 0.1233 | 0.1083 | 0.1032 | 0.815 |
| | | Side 4 | 0.5129 | 0.5026 | 0.4981 | 0.815 |
| | | Top | 0.3478 | 0.3327 | 0.3288 | 0.815 |

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**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 | |
| 123 kHz | 10 | Side 1 | 0.2030 | 0.1882 | 0.1848 | 0.815 |
| | | Side 2 | 0.5715 | 0.5617 | 0.5575 | 0.815 |
| | | Side 3 | 0.0858 | 0.0742 | 0.0693 | 0.815 |
| | | Side 4 | 0.4746 | 0.4644 | 0.4593 | 0.815 |
| | | Top | 0.3099 | 0.2972 | 0.2921 | 0.815 |

**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 | |
| 123 kHz | 15 | Side 1 | 0.1297 | 0.1192 | 0.1158 | 0.815 |
| | | Side 2 | 0.5009 | 0.4853 | 0.4810 | 0.815 |
| | | Side 3 | 0.0511 | 0.0381 | 0.0338 | 0.815 |
| | | Side 4 | 0.4057 | 0.3945 | 0.3893 | 0.815 |
| | | Top | 0.2584 | 0.2423 | 0.2380 | 0.815 |

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# 6 Photographs

Please refer to RF Exposure setup photo.

- End of the Report -

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