



**SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch**

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

Telephone: +86 (0) 755 2601 2053  
Fax: +86 (0) 755 2671 0594  
Email: ee.shenzhen@sgs.com

Report No.: SZEM171101211602  
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# Human Exposure Report

**Application No.:** SZEM1711012116CR  
**Applicant/ Manufacturer:** Shenzhen Reflying Electronics Co., Ltd  
**Address of Applicant/ Manufacturer:** 6 Bldg, GaoXinJian Industrial zone, HePing villiage, Fuyong Town, Bao'an district, Shenzhen, Guangdong, China  
**Factory:** Shenzhen Reflying Electronics Co., Ltd  
**Address of Factory:** 6 Bldg, GaoXinJian Industrial zone, HePing villiage, Fuyong Town, Bao'an district, Shenzhen, Guangdong, China  
**Equipment Under Test (EUT):**  
**EUT Name:** PowerBase Wireless Desk Charger  
**Model No.:** CY2376PPWIR, RWC15♣  
♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.  
**Trade Mark:** Please refer to section 2  
**FCC ID:** A7M-CY2376PPWIR  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
**Date of Receipt:** 2017-12-02  
**Date of Test:** 2017-12-07 to 2017-12-19  
**Date of Issue:** 2017-12-20

<b>Test Result :</b>	<b>Pass*</b>
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\* This report is just a test result base on the test method and limit requirement shown in the form on the second page. The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



Jack Zhang  
EMC Laboratory Manager



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### 3 General Information

#### 3.1 Details of E.U.T.

Rated input:	DC 5V or DC 9V from USB port
Rated output:	5V2A max or 9V1.47A max
Antenna Type:	Loop antenna
Modulation type:	Load modulation
Cable:	100cm shielded USB cable
Test voltage:	AC 120V/60Hz (Voltage of the AC/DC adapter)

#### 3.2 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial No.
Adapter	Huawei	HW-059200CHQ	N/A
Dummy load	E-Charging	N/A	N/A
Mobile phone	Samsung	G950F	N/A

**Remark:**

Model No.: CY2376PPWIR, RWC15

Only the model CY2376PPWIR was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No.



### 3.3 Test Location

All tests were performed at:

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

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.



## 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	2018-03-27



## 5 Test Results

### 5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310  
Measurement Distance: 10cm  
Test voltage: AC 120V/60Hz (Voltage of the AC/DC adapter)  
Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	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).				

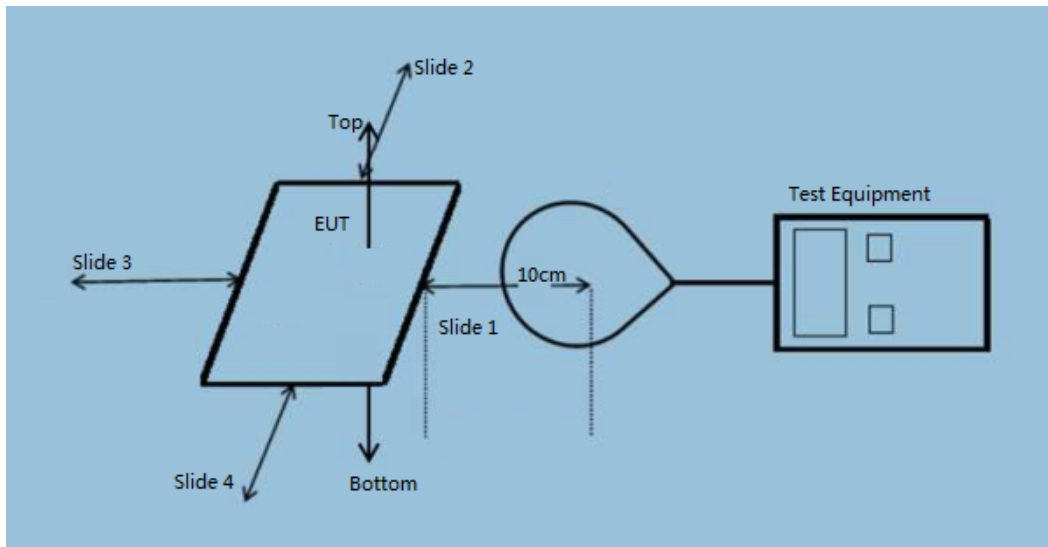
#### 5.1.1 E.U.T. Operation

##### Operating Environment:

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

##### EUT Operation and Test Block:

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.





### 5.1.2 Measurement Data

#### 1: Output Voltage=DC 9V and DC 5V

Both voltages were tested during the testing and found that DC 9V is the worst case, the worst one data of the voltage was show on the report.

#### Electric Field Emissions

Operation frequency(kHz)	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			30%Limit (V/m)
			10% Current	50% Current	100% Current	
167	Side 1	10	0.54	0.56	0.54	184.2
167	Side 2	10	0.51	0.50	0.51	184.2
167	Side 3	10	0.57	0.55	0.57	184.2
167	Side 4	10	0.51	0.52	0.51	184.2
167	Top	10	0.68	0.70	<b>0.71</b>	184.2
167	Bottom	10	0.64	0.64	0.64	184.2

#### Magnetic Field Emissions

Operation frequency(kHz)	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			30%Limit (A/m)
			10% Current	50% Current	100% Current	
167	Side 1	10	0.0015	0.0013	0.0016	0.489
167	Side 2	10	0.0015	0.0016	0.0018	0.489
167	Side 3	10	0.0017	0.0013	0.0017	0.489
167	Side 4	10	0.0015	0.0012	0.0016	0.489
167	Top	10	0.0021	0.0023	<b>0.0024</b>	0.489
167	Bottom	10	0.0017	0.0018	0.0021	0.489





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

#### Electric Field Emissions

Operation frequency(kHz)	Test Position	Test Distance (cm)	Probe Measure Result(V/m)			30%Limit (V/m)
			zero charge	intermediate charge	full charge	
167	Side 1	10	0.74	0.75	0.67	184.2
167	Side 2	10	0.54	0.53	0.46	184.2
167	Side 3	10	0.51	0.56	0.52	184.2
167	Side 4	10	0.57	0.59	0.53	184.2
167	Top	10	0.61	<b>0.81</b>	0.69	184.2
167	Bottom	10	0.54	0.72	0.65	184.2

#### Magnetic Field Emissions

Operation frequency(kHz)	Test Position	Test Distance (cm)	Probe Measure Result(A/m)			30%Limit (A/m)
			zero charge	intermediate charge	full charge	
167	Side 1	10	0.0023	0.0022	0.0017	0.489
167	Side 2	10	0.0018	0.0018	0.0012	0.489
167	Side 3	10	0.0016	0.0014	0.0018	0.489
167	Side 4	10	0.0014	0.0015	0.0013	0.489
167	Top	10	0.0027	<b>0.0030</b>	0.0026	0.489
167	Bottom	10	0.0018	0.0025	0.0024	0.489

## 6 Photographs

### 6.1 Test photos

For electronic filing, the photographs of the test photos are saved with filename: setup photos.pdf.