

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

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM161201075402

Fax: +86 (0) 755 2671 0594 Page: 1 of 16

Human Exposure Report

Application No.: SZEM1612010754CR

Applicant/ Manufacturer: Zhejiang Fousine Science & Technology Co., Ltd.

Address of Applicant/ 198 ChangYuan Rd, Yuyao, Zhejiang Prvn., China.

Manufacturer:

Factory: Zhejiang Fousine Science & Technology Co., Ltd. **Address of Factory:** 198 ChangYuan Rd,Yuyao,Zhejiang Prvn., China.

Equipment Under Test (EUT):

EUT Name: BW Wireless Charging Stand, 2A input, black

Model No.: FSWA17WI015, BWA17WI015 &

Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

Trade Mark: Fousine/Blackweb **FCC ID:** 2AKP3-BWA17WI015

Standards: 47 CFR PART 1, Subpart I, Section 1.1310

 Date of Receipt:
 2016-12-16

 Date of Test:
 2016-12-29

 Date of Issue:
 2016-12-30

Test Result : Pass*

* 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..

Authorized Signature:



Starry Li EMC Laboratory Project Engineer

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3 General Information

3.1 Details of E.U.T.

Rated input: DC 5V, 2A/DC 9V, 1.8A Rated output: DC 5V, 1A/DC 9V,1.1A

USB Cable: USB charging line: 100cm, unshielded

Operation frequency: 110-205kHz
Test voltage: AC 120V/60Hz

3.2 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357 W010A051	REF.
			No.SEA0500
mobile phone	Samsung	Galaxy S6 Edge+	N/A
DC Electronic load	Provided by SGS Lab	N/A	N/A

Remark:

Model No.: FSWA17WI015, BSWA17WI015

Only the model FSWA17WI015 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models, only different on model No..



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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 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

The 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 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
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2017-06-10
2	Electric Field Meter	Schaffner	EMC20	EMC068	2017-03-27
3	DC Electronic Load	PRODIGIT	3302F	30802F0053 3	2017-12-05



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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: 10cm

Test voltage: AC 120V 60Hz

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)				
	(A) Limits for Occ	cupational/Controlled Ex	posures					
0.3-3.0	0.3-3.0 614 1.63 *(100)							
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 Genera	l Population/Uncontrolle	ed 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

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.

^{*=}Plane-wave equivalent power density



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5.1.2 Measurement Data

1: Output Voltage=DC 5V; The max output current =1A; Calculation of resistor value= 5Ω Electric Field Emissions

Test Position	Test Distance	Probe Measure Result	Limit	30% Limit
	(cm)	(V/m)	(V/m)	(V/m)
Side 1	10	4.68	614	184.2
Side 2	10	4.54	614	184.2
Side 3	10	4.71	614	184.2
Side 4	10	4.92	614	184.2
Тор	10	6.85	614	184.2
Bottom	10	3.17	614	184.2

Test Position	Test Distance	Probe Measure Result	Limit	30% Limit
	(cm)	(A/m)	(A /m)	(A/m)
Side 1	10	0.0833	1.63	0.489
Side 2	10	0.0824	1.63	0.489
Side 3	10	0.0856	1.63	0.489
Side 4	10	0.0874	1.63	0.489
Тор	10	0.1052	1.63	0.489
Bottom	10	0.0696	1.63	0.489



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

Test	Test	Probe	Limit(V/m)/		
Position	Distance (cm)	zero charge	intermediate charge	full charge	30%Limit(V/ m)
Side 1	10	4.12	4.66	3.33	614
Side 2	10	3.95	4.43	3.86	614
Side 3	10	4.47	4.92	4.51	614
Side 4	10	3.34	3.66	3.38	614
Тор	10	5.72	5.34	5.64	614
Bottom	10	2.91	2.66	2.52	614

Test	Test	Probe	t(A/m)	Limit(A/m)/	
Position	Distance (cm)	zero charge	intermediate charge	full charge	30%Limit(A/ m)
Side 1	10	0.0175	0.0152	0.0185	1.63
Side 2	10	0.0168	0.0163	0.0180	1.63
Side 3	10	0.0178	0.0146	0.0191	1.63
Side 4	10	0.0171	0.0133	0.0171	1.63
Тор	10	0.0279	0.0261	0.0293	1.63
Bottom	10	0.0154	0.0185	0.0186	1.63



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1: Output Voltage=DC 9V; The max output power =10W; Calculation of resistor value=8.1 Ω

Electric Field Emissions

Test Position	Test Distance	Probe Measure Result	Limit	30% Limit
	(cm)	(V/m)	(V/m)	(V/m)
Side 1	10	4.71	614	184.2
Side 2	10	4.64	614	184.2
Side 3	10	4.86	614	184.2
Side 4	10	4.73	614	184.2
Тор	10	6.86	614	184.2
Bottom	10	3.83	614	184.2

Test Position	Test Distance	Probe Measure Result	Limit	30% Limit
	(cm)	(A/m)	(A /m)	(A/m)
Side 1	10	0.0843	1.63	0.489
Side 2	10	0.0877	1.63	0.489
Side 3	10	0.0872	1.63	0.489
Side 4	10	0.0883	1.63	0.489
Тор	10	0.1038	1.63	0.489
Bottom	10	0.0677	1.63	0.489



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

Test	Test Distance	Probe	Limit(V/m)/		
Position	(cm)	zero charge	intermediate charge	full charge	30%Limit(V/ m)
Side 1	10	3.76	4.76	3.43	614
Side 2	10	3.95	4.64	3.73	614
Side 3	10	4.79	4.53	4.57	614
Side 4	10	3.43	3.74	3.53	614
Тор	10	5.41	5.64	5.54	614
Bottom	10	2.68	2.72	2.71	614

Test	Test Distance	Probe	Limit(A/m)/		
Position	(cm)	zero charge	intermediate charge	full charge	30%Limit(A/ m)
Side 1	10	0.0193	0.0165	0.0196	1.63
Side 2	10	0.0181	0.0162	0.0194	1.63
Side 3	10	0.0196	0.0156	0.0232	1.63
Side 4	10	0.0173	0.0136	0.0188	1.63
Тор	10	0.0277	0.0264	0.0291	1.63
Bottom	10	0.0153	0.0181	0.0194	1.63



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6 Photographs

6.1 Test photos

Test Model No.: FSWA17WI015

Test with mobile phone at zero charge, intermediate charge, full charge

Side 1



Side 2



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Side 3



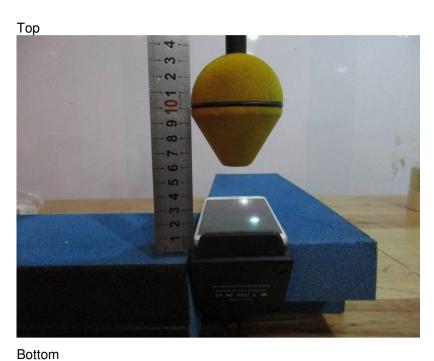
Side 4





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Test with full load

Side 1



Side 2





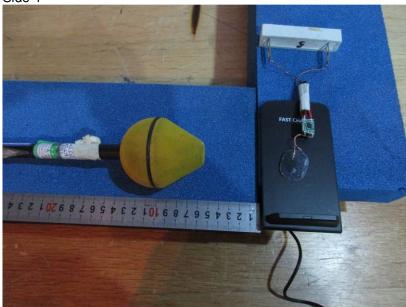
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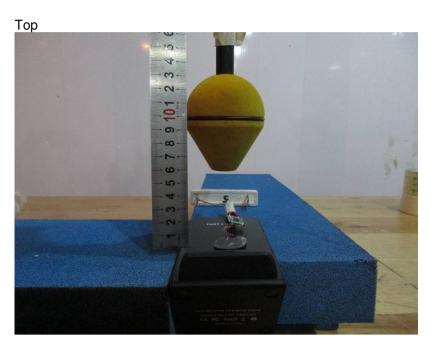
Side 4





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