



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

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Report No.: SZEM180700696703

Page: 1 of 10

Human Exposure Report

Application No.: SZEM1807006967CR
Applicant: SHENZHEN DNS INDUSTRIES CO., LTD.
Address of Applicant: 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen 518026, China
Manufacturer: SHENZHEN DNS INDUSTRIES CO., LTD.
Address of Manufacturer: 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen 518026, China
Factory: HUIZHOU D&S CABLE CO., LTD.
Address of Factory: LONGJIN DONGJIANG INDUSTRY ZONE, SHUIKOU, HUICHENG, HUIZHOU, GUANGDONG, CHINA
Equipment Under Test (EUT):
EUT Name: WIRELESS CHARGER POWER BANK
Model No.: PW26F7A, GC-WCPB1PD ♣
♣ Please refer to section 2.2 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: DNS, M-BEST, omars
FCC ID: ZBCPW26F7A
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
Date of Receipt: 2018-08-21
Date of Test: 2018-08-23 to 2018-08-29
Date of Issue: 2018-09-03

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above



Keny Xu
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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1 Contents

	Page
1 CONTENTS	2
2 GENERAL INFORMATION	3
2.1 DETAILS OF E.U.T.	3
2.2 DESCRIPTION OF SUPPORT UNITS	3
2.3 TEST LOCATION	4
2.4 TEST FACILITY	4
2.5 DEVIATION FROM STANDARDS	4
2.6 ABNORMALITIES FROM STANDARD CONDITIONS	4
3 EQUIPMENTS USED DURING TEST	5
4 TEST RESULTS	6
4.1 RF EXPOSURE TEST	6
4.1.1 E.U.T. Operation	6
4.1.2 Measurement Data	7-10



2 General Information

2.1 Details of E.U.T.

Power supply: Input:
Micro USB: DC 5V/2A
Type C Input: DC 5V/3A, 9V/2A, 12V/1.5A
Output:
USB A: DC 5V/2A, 9V/2A, 12V/1.5A
Type C: DC 5V/3A, 9V/2A, 12V/1.5A
QI: DC 5V/1A, MAX 5W
Total: 18W
Capacity: 10000mAh
Operation frequency: 105.4-176.8 kHz
Antenna type: Inductive Loop Coil Antenna
Modulation type: Load modulation

2.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1357 W010A051	REF. No.SEA0500
Mobile Phone	SAMSUNG	SM-G9500	R28J9140LPB
Type-C Cable	SGS	N/A	REF. No.SEA0705

Remark:

Model No.: PW26F7A, GC-WCPB1PD

Only the model PW26F7A was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on the appearance, trade name and model No.



2.3 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.

2.4 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.

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.



3 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date (yyyy-mm-dd)
1	Shielding Room	SAEMC	MSR733	SEM001-09	2020-05-09
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2019-02-06



4 Test Results

4.1 RF Exposure test

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

Measurement Distance: 0cm/5cm/10cm/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).

4.1.1 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 5%, 50%, and 90%.



4.1.2 Measurement Data

Output Voltage=DC 5V; The max output power =5W;Calculation of resistor value=5Ω

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (V/m)	50% Limit (V/m)
147.2 kHz	0	Side 1	3.76	307
		Side 2	3.25	307
		Side 3	2.07	307
		Side 4	3.26	307
		Top	5.67	307
		Bottom	3.46	307
	5	Side 1	1.31	307
		Side 2	0.86	307
		Side 3	0.52	307
		Side 4	0.87	307
		Top	1.99	307
		Bottom	0.31	307
	10	Side 1	0.54	307
		Side 2	0.36	307
		Side 3	0.37	307
		Side 4	0.51	307
		Top	0.68	307
		Bottom	0.21	307
	15	Side 1	0.32	307
		Side 2	0.26	307
		Side 3	0.19	307
		Side 4	0.20	307
		Top	0.31	307
		Bottom	0.09	307



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

Report No.: SZEM180700696703
Page: 8 of 10

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)	50% Limit (A/m)
147.2 kHz	0	Side 1	0.0047	0.815
		Side 2	0.0058	0.815
		Side 3	0.0043	0.815
		Side 4	0.0046	0.815
		Top	0.0088	0.815
		Bottom	0.0074	0.815
	5	Side 1	0.0038	0.815
		Side 2	0.0046	0.815
		Side 3	0.0034	0.815
		Side 4	0.0037	0.815
		Top	0.0070	0.815
		Bottom	0.0065	0.815
	10	Side 1	0.0030	0.815
		Side 2	0.0037	0.815
		Side 3	0.0027	0.815
		Side 4	0.0030	0.815
		Top	0.0056	0.815
		Bottom	0.0057	0.815
	15	Side 1	0.0014	0.815
		Side 2	0.0010	0.815
		Side 3	0.0000	0.815
		Side 4	0.0014	0.815
		Top	0.0015	0.815
		Bottom	0.0009	0.815



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

Report No.: SZEM180700696703
Page: 9 of 10

Mobile phone has been charge at 5%, 50%, and 90%.

Electric Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(V/m)			50%Limit (V/m)
			5%	50%	90%	
147.2 kHz	0	Side 1	3.23	3.54	3.87	307
		Side 2	3.06	2.88	3.41	307
		Side 3	1.75	1.94	2.35	307
		Side 4	2.89	3.07	3.51	307
		Top	5.18	4.96	5.77	307
		Bottom	3.41	3.27	3.31	307
	5	Side 1	1.15	1.18	1.24	307
		Side 2	0.76	0.77	0.82	307
		Side 3	0.46	0.47	0.49	307
		Side 4	0.77	0.78	0.83	307
		Top	1.75	1.79	1.89	307
		Bottom	0.65	0.61	0.66	307
	10	Side 1	0.48	0.51	0.49	307
		Side 2	0.32	0.34	0.32	307
		Side 3	0.33	0.35	0.33	307
		Side 4	0.45	0.48	0.46	307
		Top	0.60	0.65	0.61	307
		Bottom	0.42	0.37	0.41	307
	15	Side 1	0.30	0.29	0.28	307
		Side 2	0.25	0.23	0.23	307
		Side 3	0.18	0.17	0.17	307
		Side 4	0.19	0.18	0.18	307
		Top	0.29	0.28	0.27	307
		Bottom	0.21	0.22	0.25	307



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

Report No.: SZEM180700696703
Page: 10 of 10

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50%Limit (A/m)
			5%	50%	90%	
147.2 kHz	0	Side 1	0.0038	0.0045	0.0061	0.815
		Side 2	0.0047	0.0065	0.0073	0.815
		Side 3	0.0024	0.0039	0.0057	0.815
		Side 4	0.0033	0.0041	0.0053	0.815
		Top	0.0076	0.0092	0.0102	0.815
		Bottom	0.0059	0.0055	0.0050	0.815
	5	Side 1	0.0034	0.0032	0.0030	0.815
		Side 2	0.0041	0.0039	0.0037	0.815
		Side 3	0.0031	0.0029	0.0027	0.815
		Side 4	0.0033	0.0031	0.0030	0.815
		Top	0.0063	0.0060	0.0056	0.815
		Bottom	0.0031	0.0032	0.0030	0.815
	10	Side 1	0.0026	0.0027	0.0024	0.815
		Side 2	0.0031	0.0033	0.0030	0.815
		Side 3	0.0023	0.0024	0.0022	0.815
		Side 4	0.0026	0.0027	0.0024	0.815
		Top	0.0048	0.0050	0.0045	0.815
		Bottom	0.0022	0.0025	0.0024	0.815
	15	Side 1	0.0013	0.0012	0.0011	0.815
		Side 2	0.0009	0.0009	0.0008	0.815
		Side 3	0.0000	0.0000	0.0000	0.815
		Side 4	0.0013	0.0012	0.0011	0.815
		Top	0.0014	0.0013	0.0012	0.815
		Bottom	0.0009	0.0005	0.0003	0.815

- End of the Report -