



Human Exposure Report

Application No.: SZEM1911020311CR
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
Equipment Under Test (EUT):
EUT Name: Wireless Charger
Model No.: WD-210B, WD-210D, WD-210G, WD-210H, 3S-1833, 3S-1834, 07036, 07038, 07037, 07035, 07039 ♣
 ♣ Please refer to section 3.1 of this report which indicates which model was actually tested and which were electrically identical.
Trade mark: DNS, mbest, 3SIXT
FCC ID: ZBCWD210BF
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2019-10-11
Date of Test: 2019-10-12 to 2019-10-23
Date of Issue: 2019-10-25

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

Keny Xu
 EMC Laboratory Manager



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 Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-01-07		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
 Output: 5W/7.5W/10W

Operation Frequency: 110.10 kHz -148.72kHz

Modulation Type: Load Modulation

Antenna Type: Loop Antenna

Remark: Tests were conducted in all three load modes and the worst case 10W(DC 9V/1.1A) is reported only.

Remark:

Model No.: WD-210B, WD-210D, WD-210G, WD-210H, 3S-1833, 3S-1834, 07036, 07038, 07037, 07035, 07039

Only the model WD-210D 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 trade mark, model No, NTC design, details see below:

Trade Mark	Model No.	NTC design	Enclosure shape code
DNS, mbest	WD-210B	SMD	A
	WD-210D	SMD	B
	WD-210G	Bonding wire	B
	WD-210H	Bonding wire	A
3SIXT	3S-1833	SMD	A
	3S-1834	SMD	A, B
DANSOON	07036	SMD	B
	07038	SMD	B
	07037	SMD	B
	07035	SMD	B
	07039	SMD	B



3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	LeTV	EQ-248CN	16041847014
Adapter	SAMSUNG	EP-TA200	R37J8YA7W71DK3
HUAWEI Mate 20 Pro	HUAWEI	LYA-AL00	S2D7N19124014116
iPhone 8	Apple	A1863	F4GVQ656JC6D
SAMSUNG Galaxy S8	SAMSUNG	SM-G9500	R28J9140LPB
USB Cable	PHILIPS	SWR2101	REF. No.SEA0700



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.



4 Equipments Used during Test

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



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 with mobile phone at zero charge, intermediate charge, and full charge.



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)
129 kHz	15	Side 1	0.0667	0.815
		Side 2	0.0329	0.815
		Side 3	0.0613	0.815
		Side 4	0.0378	0.815
		Top	0.0244	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	
129 kHz	15	Side 1	0.0787	0.0660	0.0623	0.815
		Side 2	0.0430	0.0281	0.0231	0.815
		Side 3	0.0704	0.0578	0.0541	0.815
		Side 4	0.0506	0.0349	0.0314	0.815
		Top	0.0376	0.0256	0.0245	0.815

- End of the Report -

