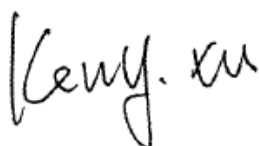


# Human Exposure Report

**Application No.:** FYFR2203000005AT  
**Applicant:** SHENZHEN DNS INDUSTRIES CO., LTD.  
**Address of Applicant:** 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian shenzhen China  
**Manufacturer:** SHENZHEN DNS INDUSTRIES CO., LTD.  
**Address of Manufacturer:** 23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian shenzhen China  
**Factory:**  
 1. HUIZHOU DNS TECHNOLOGY CO., LTD.  
 2. HUIZHOU D&S CABLE CO., LTD.  
 3. D AND S INDUSTRIES (PHILIPPINES) CORPORATION.  
**Address of Factory:**  
 1. 5 Dongshun South Road, Dongjiang Hi-tech Industrial Park, Zhongkai Hi-tech Zone, Huizhou City, Guangdong, China  
 2. LONGJIN DONGJIANG INDUSTRY ZONE, SHUIKOU, HUICHENG, HUIZHOU, GUANGDONG, CHINA  
 3. 1 to 5 Orient Goldcrest Suntrust Ecotown Building 2, Lot 8 Block 8, Sahud Ulan, Suntrust Ecotown Tanza, Region IV-A, Cavite, Philippines.  
**Equipment Under Test (EUT):**  
**EUT Name:** Magnetic Wireless Charger  
**Model No.:** WD-274C  
**Trade Mark:** DNS, omars, mbest, NOVOO, KEYMOX  
**FCC ID:** ZBC-WD274C  
**Standards:** 47 CFR PART 1, Subpart I, Section 1.1310  
 47 CFR PART 2, Subpart J, Section 2.1091  
**Date of Receipt:** 2022-03-04  
**Date of Test:** 2022-04-08 to 2022-04-11  
**Date of Issue:** 2022-04-13

<b>Test Result :</b>	<b>Pass*</b>
----------------------	--------------

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



Keny Xu  
EMC Laboratory Manager



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<b>Revision Record</b>				
<b>Version</b>	<b>Chapter</b>	<b>Date</b>	<b>Modifier</b>	<b>Remark</b>
01		2022-04-13		Original

<b>Authorized for issue by:</b>			
		<i>Tree Zhan</i>	
		<hr/>	
		<b>Tree Zhan/Project Engineer</b>	
		<i>Winkey Wang</i>	
		<hr/>	
		<b>Winkey Wang/Reviewer</b>	



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### 3 General Information

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

EUT Name:	Magnetic Wireless Charger
Model No.:	WD-274C
EUT function:	This device is used to transfer power to a Smart device and/or an AirPods with Qi technology installed; meanwhile this device can transfer power to an iWatch with Apple wireless technology installed
Power supply:	Input: 5V/3A,9V/3A, 12V/2.5A Output 1: 5W/7.5W/10W Max. Output 2: 5.0W Max. Output 3: 2.5W Max.
Cable(s):	DC Cable: 100cm unshielded
Antenna Type:	Loop Antenna
Modulation Type:	Load Modulation
Operating frequency:	For Output 1: 112.04kHz to 153.48kHz For Output 2: 112.00kHz to 175.20kHz For Output 3: 325.20kHz to 327.60kHz

#### 3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Chicony	W16-045N5A	84BZ01F77
Airpods	Apple	A2566	REF. No.SEA10D00
Watch	Apple	Series 5	REF. No.SEA32A00
iPhone 13	Apple	MLDYCH/A	REF. No.SEA16Q00
E-loading	SGS	N/A	REF. No.SEA42A00



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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. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

• **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

• **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 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 Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2024-12-23
2	Electric and Magnetic Field Analyzer	Narda	EHP-50F	EMC092	2022-11-25

### Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W).
Pre-scan	01	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W).
Pre-scan	02	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W).
Pre-scan	03	Operation(Wireless):Keep the EUT pairing with other devices(Output2: 5W).
Pre-scan	04	Operation(Wireless):Keep the EUT pairing with other devices(Output3: 2.5W).
Pre-scan	05	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output2: 5W).
Pre-scan	06	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output2: 5W).
Pre-scan	07	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output2: 5W).
Pre-scan	08	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output3: 2.5W).
Pre-scan	09	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output3: 2.5W).
Pre-scan	10	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output3: 2.5W).
Pre-scan	11	Operation(Wireless):Keep the EUT pairing with other devices(Output2: 5W+Output3: 2.5W).
Pre-scan	12	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 5W+Output2: 5W+Output3: 2.5W).
Pre-scan	13	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 7.5W+Output2: 5W+Output3: 2.5W).
Final test	14	Operation(Wireless):Keep the EUT pairing with other devices(Output1: 10W+Output2: 5W+Output3: 2.5W).



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## 5 Test Results

### 5.1 RF Exposure test

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

47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 15/20cm

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: 22.3 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1015 mbar



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This device has been tested the worst status of full load and the device has been tested with mobile phone/iWatch at zero charge, intermediate charge, and full charge.

**5.1.2 Measurement Data**

**Input Voltage=DC 12V; The max output power =17.5W.**

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
127.5KHz	15	Side 1	0.116	0.134	0.157	0.815	0.163
		Side 2	0.115	0.131	0.159		
		Side 3	0.120	0.137	0.164		
		Side 4	0.126	0.140	0.173		
127.5KHz	20	Top	0.134	0.152	0.182		
120.0KHz			0.062	0.076	0.086		
326.5KHz			0.049	0.058	0.071		

**Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
127.5KHz	15	Side 1	0.163	0.137	0.109	0.815	0.163
		Side 2	0.157	0.132	0.105		
		Side 3	0.166	0.139	0.111		
		Side 4	0.173	0.145	0.116		
127.5KHz	20	Top	0.189	0.159	0.126		
120.0KHz			0.081	0.068	0.054		
326.5KHz			0.068	0.057	0.045		

- End of the Report -



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