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# **FCC TEST REPORT**

Client Name : SHENZHEN DNS INDUSTRIES CO., LTD.

23/F Building A, Shenzhen International Innovation

Address : Center, No.1006 Shennan Road, Futian, shenzhen,

China

Product Name : Wireless Charger

Date : May 20, 2021





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# TEST REPORT

Applicant : SHENZHEN DNS INDUSTRIES CO., LTD.

Manufacturer : SHENZHEN DNS INDUSTRIES CO., LTD.

Product Name : Wireless Charger

Model No. : WD-268C

Trade Mark : DNS, omars, mbest, NOVOO, KEYMOX

Rating(s) : Input: DC 5V/2A; DC 9V/2A, DC 12V/1.5A Wireless Output: 5W, 7.5W, 10W, 15W

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v03

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt	Apr. 12, 2021
Date of Test	Apr. 12~24, 2021
Prepared By	Ella Islang
Ambotek Anbotek Anbotek Anbotek	(Ella Liang)
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Approved & Authorized Signer	Ambort Amb
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Hotline 400-003-0500 www.anbotek.com



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## 1. General Information

### 1.1. Client Information

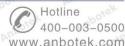
Applicant	: SHENZHEN DNS INDUSTRIES CO., LTD.
Address	23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, shenzhen, China
Manufacturer	: SHENZHEN DNS INDUSTRIES CO., LTD.
Address	23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, shenzhen, China
Factory 1	: HUIZHOU D&S CABLE CO., LTD.
Address	Longjin Dongjiang Industry Zone Shuikou, Huicheng, Huizhou, Guangdong, China
Factory 2	: HUIZHOU DNS TECHNOLOGY CO., LTD
Address	5 Dongshun South Road, Dongjiang Hi-tech Industrial Park, Zhongkai Hi-tec Zone, Huizhou City, Guangdong, China
Factory 3	D AND S INDUSTRIES (PHILIPPINES) CORPORATION
Address	1 to 5 Orient Goldcrest Suntrust Ecotown Building 2, Lot 8 Block 8, Sahud Ulan, Suntrust Ecotown Tanza, Region IV-A, Cavite, Philippines

### 1.2. Description of Device (EUT)

rek nbo	-	W 1070	Ant self all
Product Name	:	Wireless Charger	
Model No.		WD-268C	tek Anborek Anborek Anboren Anb
Trade Mark	:	DNS, omars, mbest, NOVC	OO, KEYMOX
Test Power Supply	:	AC 120V, 60Hz for adapter	Anbotek Anbotek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample), 1-2	-1(Engineering Sample)
54		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	ASK Anbotek Anbotek
Description	•	Antenna Type:	Inductive loop coil Antenna
4		Antenna Gain(Peak):	0 dBi
No.	_	16. V C/h	K 100. by

**Remark:** 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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#### 1.3. Auxiliary Equipment Used During Test

Adapter	1:	M/N: A2613
		Input: 100-240V-2A,50-60Hz
		USB-C Output: V == 2.4A / 9V == 3A / 15V == 3A / 20V == 3A
Wireless	1:	Manufacturer: Gopod Group Holding Limited.
charging load		M/N: DTE324EM
		Power: 5W/7.5W/10W/15W
Þ		Last Cal.: Oct. 30, 2020
		Cal. Interval: 1 Year

#### 1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2020	3 Year
3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2020	3 Year

#### 1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)	hotek .	inbotek P	Tupose Vill
		Ur = 3.8 dB (Vertical)	Ann	Anborek	Aupo, stek
		Anborek Anbore	Ann	Anbotek	Anbo
Conduction Uncertainty		Uc = 3.4 dB	ek abotel	4 Anbore	k Ambo

#### 1.6. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed 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. 184111, September 30, 2020.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, September 30, 2020.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102

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### 2. Measurement and Result

### 2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- 1) Power transfer frequency is less that 1 MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Limits For Maximum Permissible Exposure (MPE)

	2.44			_40
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
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	1	1	f/300	6
1500-100,000	/	1	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 <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	/	1	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).

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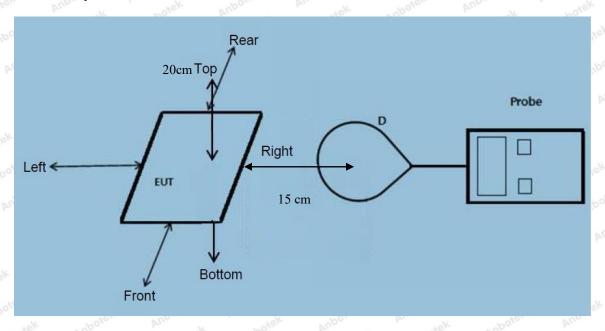
400-003-0500

<sup>=</sup>Plane-wave equivalent power density



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#### 2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

#### 2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each
- (A, B, C, D, E) were completed. (A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

The EUT's test position A, B, C, D and E is valid for the E and H field measurements

#### 2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.
- 1) Power transfer frequency is less that 1 MHz
  - The device operate in the frequency range 110.1~205KHz
- 2) Output power from each primary coil is less than 15 watts
  - The maximum output power of the primary coil is 15W.

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- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
  - The transfer system including a charging system with only single primary coils is to detect and allow only between individual pairs of coils.
- 4) Client device is inserted in or placed directly in contact with the transmitter
  - Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
  - The EUT is a Mobile exposure conditions.
- 6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
- Conducted the measurement with the required distance and the test results please refer to the section 2.4.2



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2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1.1307(b), 1.1310

Temperature:	abotek	23.1° C	bu.	Relative Humidity:	51%
Pressure:	notek	1012 hPa	Ann	Test Voltage:	AC 120V, 60Hz for adapter

E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
sk Mup,	PLOS.	Lotek D	nbotek	Vupo,	projek	Anbore	Y MO	le/r
1%	110.1~205	0.027	0.031	0.044	0.055	0.038	307	614
nbotek		Auparolek	Anbotek	Aupo,	rek Air	potek	inpoter of Ar	hotek
rupotek	Anboro	Anshotel	Anbot	Sk Vup	otek	Anborek	Anbore	Pile Pole
50%	110.1~205	0.32	0.41	0.36	0.38	0.51	307	614
ik "upc		PLUS	hotek	Anbotek	Anbo	h. Anbotel	Anbore	ok Vin
stek v	ibotek An	DOLO D	botek	Anbotek	Vup.	ek nob	otek Anbor	-014
99%	110.1~205	0.43	0.57	0.55	0.34	0.32	307	614
inpo.		Aupole	Viun Post	K Anbo	lek Yu	o tek	anbotek	Anbore.
Anbo.	Anborek	Anboid	ok bur	otek A	potek	Anbo. otek	Anbotek	Aupole
Stand-by	110.1~205	0.022	0.034	0.045	0.052	0.044	307	614
Anbo		otek Ar	pole.	run	anbotek	Aupo,	ek whote	N- P

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### H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery	Frequency Range	Test Position	Test Position	Test Position	Test Position	Test Position	Reference Limit	Limits Test
power	(KHz)	A	B	C	D	Estell	(A/m)	(A/m)
tek Ank	otek Anbe	rek	nbotek	Anboro	Andrek	Anbote)	Anbo	iek .
1%	110.1~205	0.24	0.38	0.44	0.29	0.44	0.815	1.63
hotek	Anbotek	Anbo, otek	Anborek	Anbore	Ant Ant	notek A	upotek Ar	
Am	Anbotek	Anbo	r noo	lek Aut	O, N	bolek	Anborek	Aupo ote
50%	110.1~205	0.34	0.18	0.36	0.45	0.37	0.815	1.63
ok Ann	otek Anboi	ek Anb	o rek	nabotek	Anbore	Ann	Anbotek	
Die Die	-botek An	poten p	upp otek	Motek	Anbore	ek Pur	rek Anbot	Sk
99%	110.1~205	0.18	0.19	0.53	0.44	0.42	0.815	1.63
Aupore. K	Anna	Anbotek	Anbo.	ek up	otek Ar	boje. W	hotek	
Aupore	Aur	Anbotel	Aupe	HOK IN	obotek	Aupole	Ann	Anboye
Stand-by	110.1~205	0.17	0.16	0.27	0.16	0.11	0.815	1.63
ak Anbo	Ken Amb	otek a	hbotek	Anbo.	p. abotek	Anboten	Anto Lot	

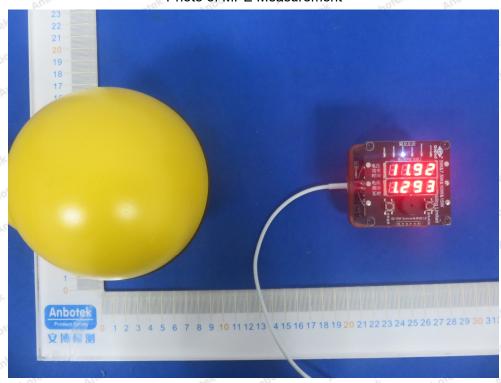
Note: (1)All the situation(full load, half load and empty load) has been tested, only the worst situation (full load, Wireless Output: 15W) was recorded in the report.

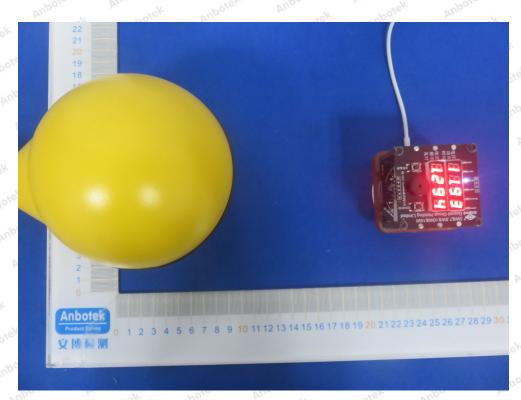


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# **APPENDIX I -- TEST SETUP PHOTOGRAPH**

Photo of MPE Measurement

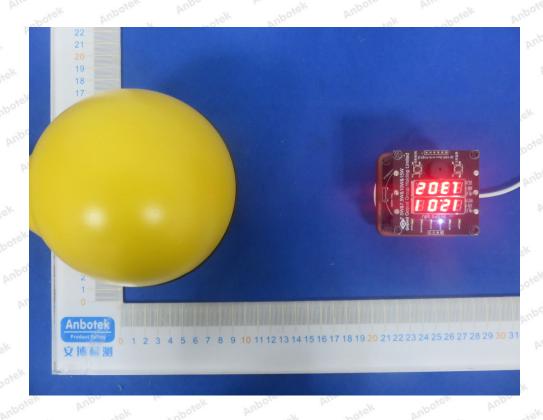


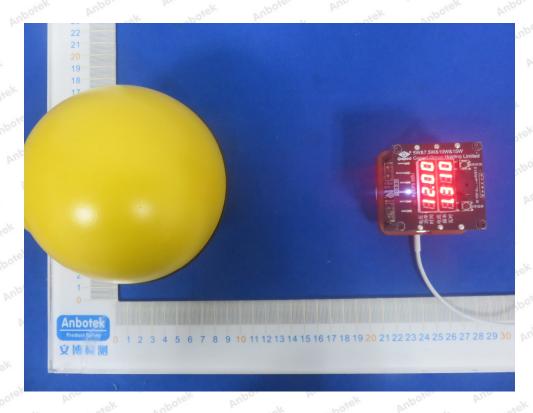


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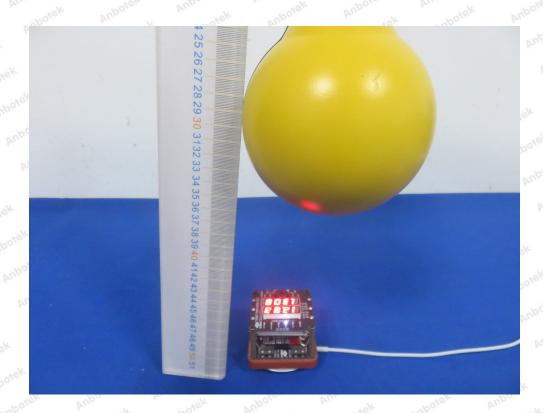
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