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# RF Exposure Report

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Report No.: AGC05803201101FH03

**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : Wireless Car Charger  
**BRAND NAME** : DNS, omars, mbest, NOVVO, KEYMOX  
**MODEL NAME** : WD-234A, B08LL545PW, B08LL3317V  
**APPLICANT** : SHENZHEN DNS INDUSTRIES CO., LTD.  
**DATE OF ISSUE** : Dec. 01, 2020  
**STANDARD(S)** : KDB680106 D01 RF Exposure Wireless Charging Base  
App v03  
**REPORT VERSION** : V1.0

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### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 01, 2020	Valid	Initial Release

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	110-205 kHz
<b>Test Frequency</b>	125kHz
<b>Maximum field strength</b>	53.14dBuV/m(PK)@3m
<b>Number of channels</b>	1
<b>Antenna Designation</b>	Coil Antenna (Met 15.203 Antenna requirement)
<b>Hardware Version</b>	CX-L2141T-10W TX1.2
<b>Software Version</b>	V1.0
<b>Power Supply</b>	DC 12V by battery

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### 3. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Wireless charging Mode(10W)
2	Wireless charging Mode(7.5W)
3	Wireless charging Mode(5W)

Note:  
1. The mode 1 was the worst case and only the data of the worst case record in this report.

### 4. SYSTEM TEST CONFIGURATION

Item	Equipment	Model No.	ID or Specification	Remark
1	Wireless charger	WD-234A	ZBCWD234A	EUT
2	Wireless Load	N/A	10W	AE

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## 5. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd
<b>Location</b>	1-2/F,Building19,JunfengIndustrialPark,ChongqingRoad,HepingCommunity,FuhaiStreet,Bao'anDistrict,Shenzhen,Guangdong,China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

## TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Broadband Field Meter	Narda Safety Test Solutions GmbH	ELT-400	J-0004	May 25,2020	May 24,2021
Probe FHP	Narda Safety Test Solutions GmbH	2300/90.10	J-0015	May 25,2020	May 24,2021

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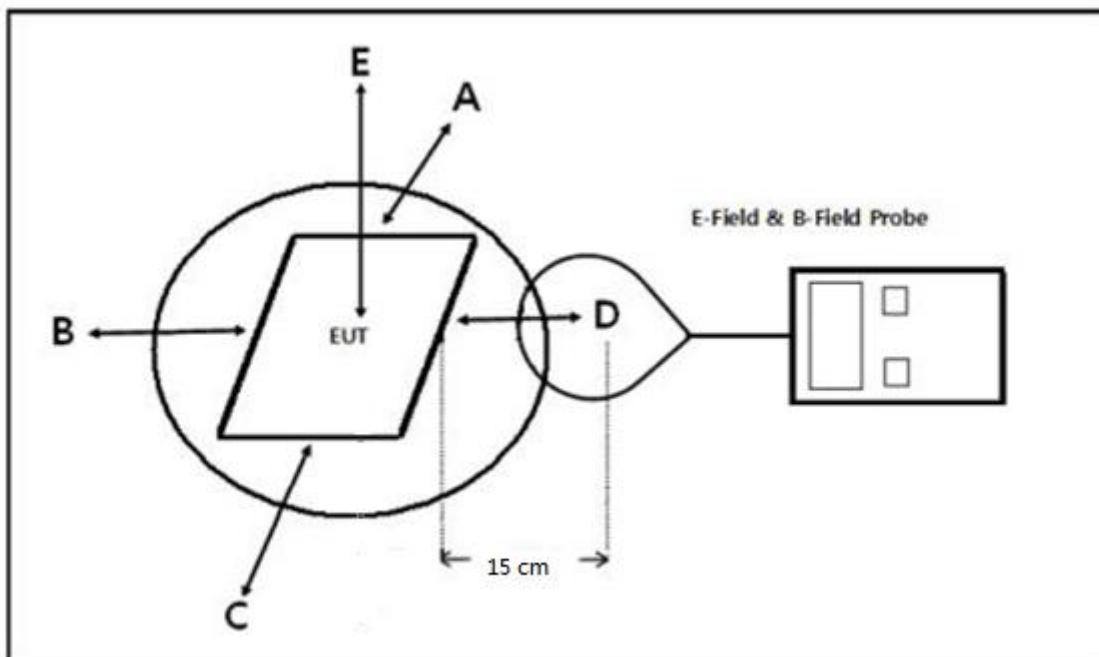


## 6. RADIO FREQUENCY (RF) EXPOSURE TEST

### 6.1. LIMITS

For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m.

### 6.2. TEST SETUP



Note: Position A: Front of EUT; Position B: Left of EUT; Position C: back of EUT; Position D: Right of EUT; Position E: Top of EUT (20 cm measure distance);

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### 6.3. TEST PROCEDURE

The EUT was placed on a non-conductive table top and the ancillary equipment (e.g. mobile phone) was placed on the EUT for charging.

Maximum E-field and H-field measurements were tested 15cm from each side of the EUT. For top side the measure distance is 20cm.

Along the side of the EUT to center of E-field probe and H-field probe were positioned at the location to search maximum field strength.

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#### 6.4. TEST RESULT

Test condition: Mode 1

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
125.0kHz	1.16	1.17	1.19	1.22	1.70	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
125.0kHz	0.42	0.44	0.46	0.43	0.64	1.63

Test condition: Mode 2

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
131.4kHz	0.97	0.95	0.93	0.91	1.03	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
131.4kHz	0.36	0.35	0.28	0.32	0.48	1.63

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Test condition: Mode 3

E-field strength test result:

Frequency Range	Probe Position A (V/m)	Probe Position B (V/m)	Probe Position C (V/m)	Probe Position D (V/m)	Probe Position E (V/m)	Limit (V/m)
137.8kHz	0.66	0.65	0.69	0.62	0.75	614

H-field strength test result:

Frequency Range	Probe Position A (A/m)	Probe Position B (A/m)	Probe Position C (A/m)	Probe Position D (A/m)	Probe Position E (A/m)	Limit (A/m)
137.8kHz	0.17	0.18	0.13	0.15	0.21	1.63

Conclusion: The test value is less than 50% MPE limit, which meets the requirements

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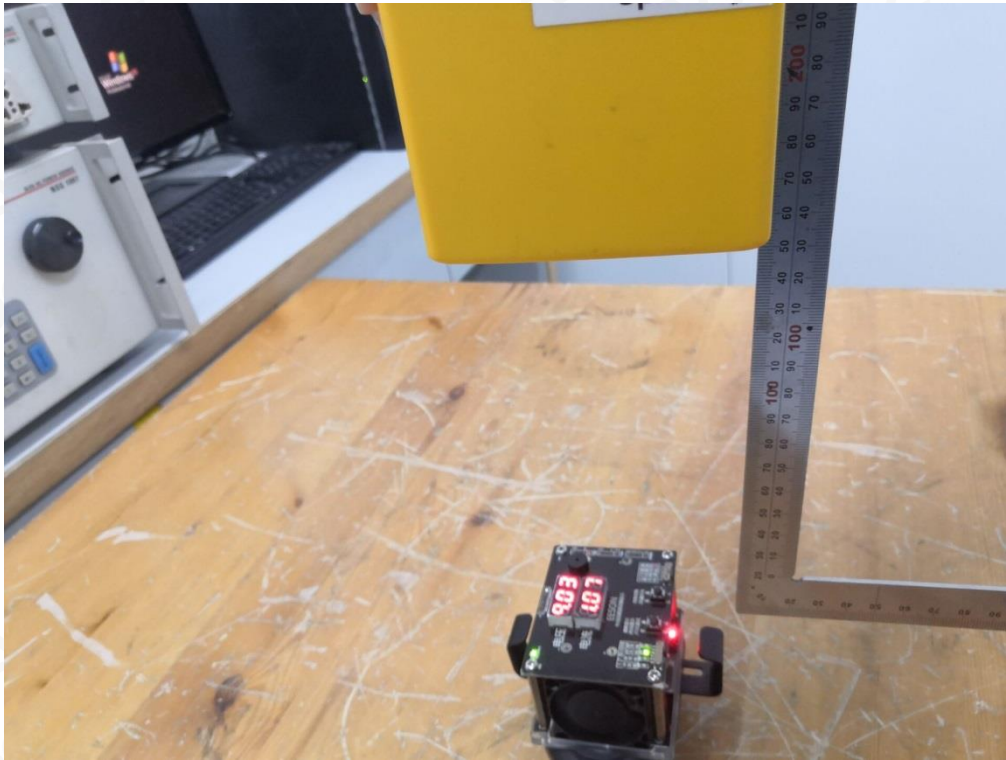
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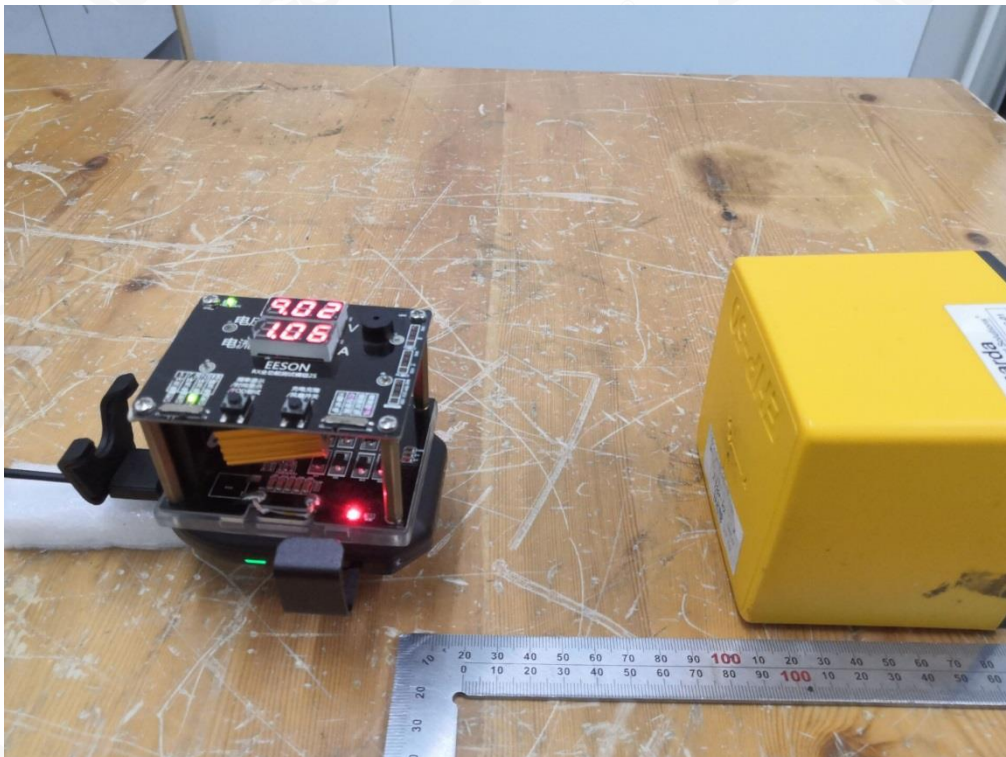


### APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Position E



Position A



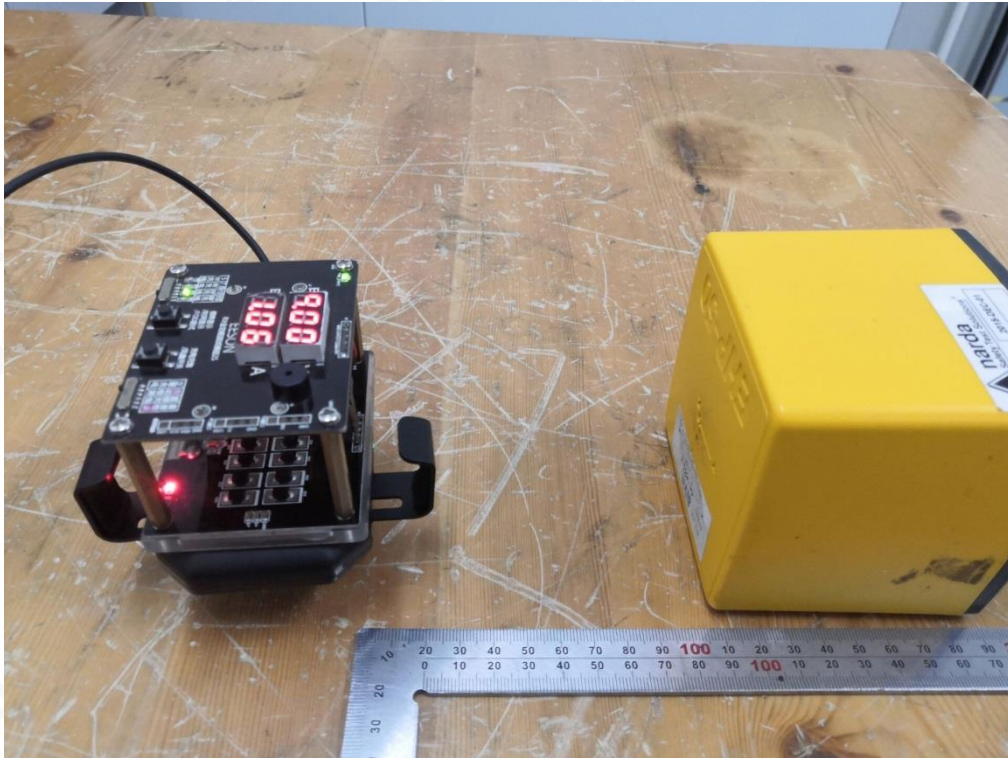
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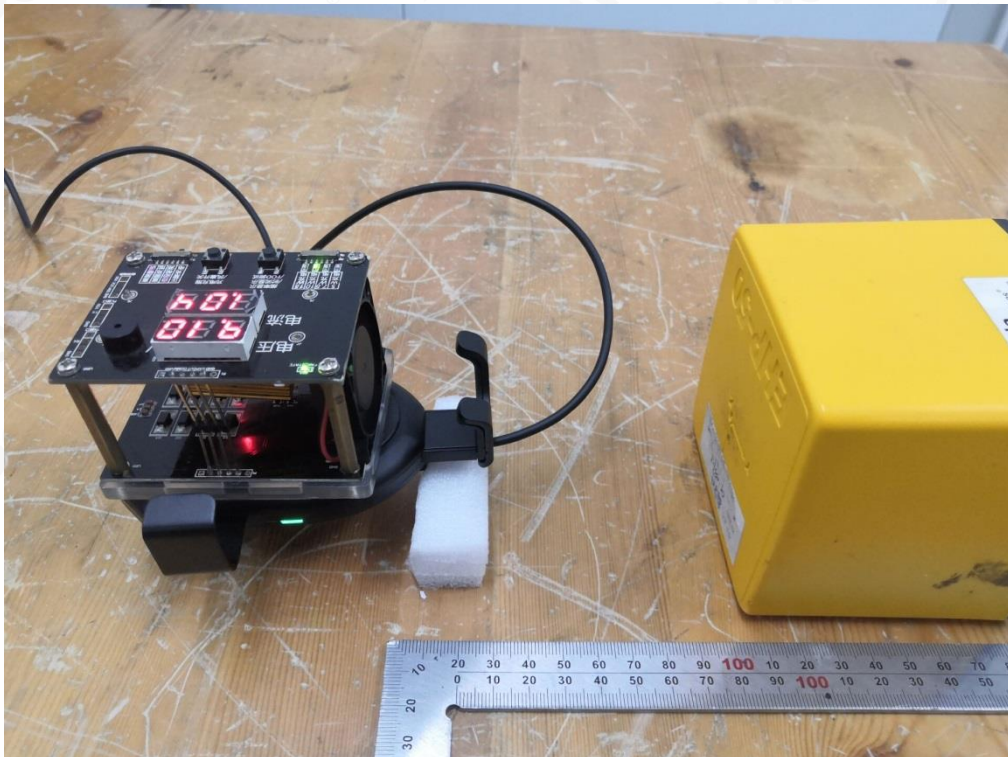




Position B



Position C

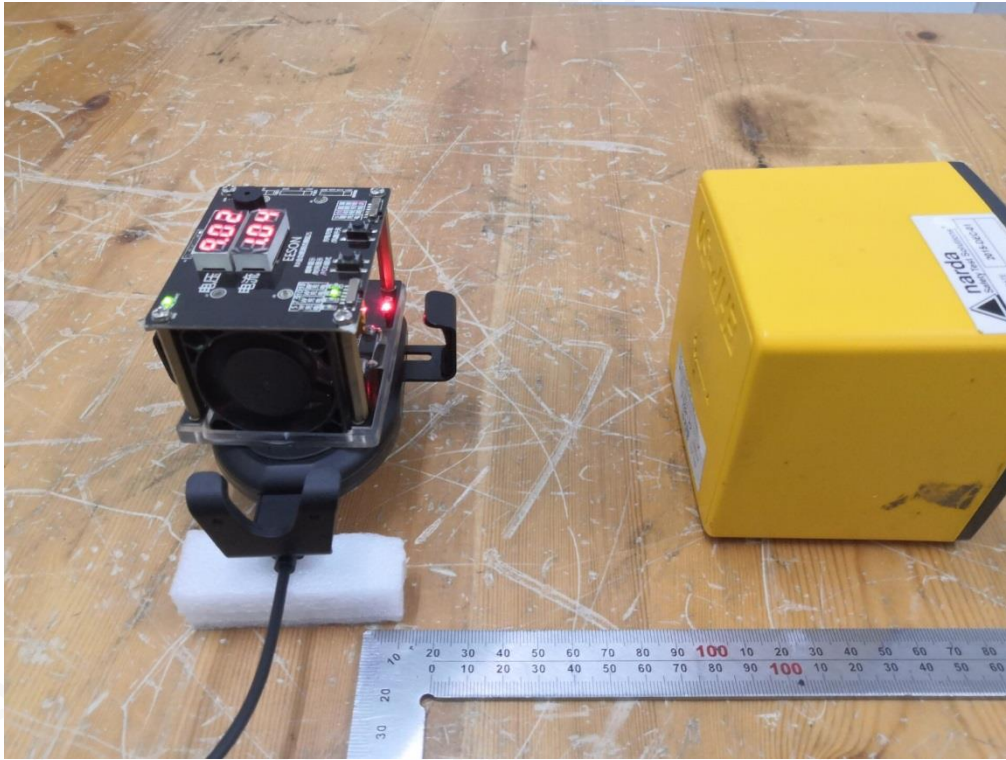


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Position D



----END OF REPORT----

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5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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