

TEST REPORT

Verified Code: 603614

Report No.:	E202012084754-3	Application No.:	E202012084754
Client:	Huizhou Desay SV Automotive Co., Ltd.		
Address:	103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, China		
Sample Description:	Car Wireless Charger		
Model:	VA40-66CHX		
Test Specification:	CFR47 FCC Part 1: Subpart I Section 1.1310 CFR47 FCC Part 1: Subpart I Section 1.1307		
Receipt Date:	2021-05-24		
Test Date:	2021-05-24 to 2021-07-11		
Issue Date:	2021-07-14		
Test Result:	Pass		
Prepared By: Test Engineer Yang Zhaojun	Reviewed By: Technical Manager Jiang Tao	Approved By: Manager Xiao Liang	
Other Aspects:			
Note: Note			
Abbreviations: ok / P = passed; fail / F = failed; n.a. / N = not applicable;			
The test result in this test report refers exclusively to the presented test sample. This report shall not be reproduced except in full, without the written approval of GRGT.			



DIRECTIONS OF TEST

- 1. This station carries out test task according to the national regulation of verifications which can be traced to National Primary Standards and BIPM.**
- 2. The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory.**
- 3. If there is any objection concerning the test, the client should inform the laboratory within 15 days from the date of receiving the test report.**

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1. GENERAL DESCRIPTION OF EUT

1.1. APPLICANT

Name: Huizhou Desay SV Automotive Co., Ltd.
Address: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guandong, China

1.2. MANUFACTURER

Name: Huizhou Desay SV Automotive Co., Ltd.
Address: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guandong, China

1.3. FACTORY

Name: Huizhou Desay SV Automotive Co., Ltd.
Address: 103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guandong, China

1.4. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Car Wireless Charger
Model No.: VA40-66CHX
Adding Model: /
Model: /
Differences:
Trade Name: /
FCC ID: 2AEQT-VA4066CHX
Power supply: DC 12V
Frequency Range: 115kHz-205kHz
Modulation type: FSK
Antenna Specification: Induction coil
Max output power: 15W
Temperature Range: -30 °C ~ +50 °C
Hardware Version: 006
Software Version: 31.02_210601_D
Sample No: E202012084754-0002,E202012084754-0003
Note: /

2. LABORATORY AND ACCREDITATIONS

2.1. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.

Add.: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District Shenzhen, 518110, People's Republic of China.
P.C.: 518000
Tel : 0755-61180008
Fax: 0755-61180008

2.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to GB/T 27025(ISO/IEC 17025:2017)

USA A2LA(Certificate #:2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada Industry Canada
USA FCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.grgtest.com>

3. TEST MODE

Test Item	Mode No.	Description of the modes
H-Field Strength	1	EUT powered by DC 12V, EUT works at 125.95kHz and 127.7kHz
H-Field Strength	2	EUT powered by DC 12V with load(7.5W) at charging mode, EUT works at 125.95kHz and 127.7kHz
H-Field Strength	3	EUT powered by DC 12V with load(15W) at charging mode, EUT works at 125.95kHz and 127.7kHz
E-Field Strength	1	EUT powered by DC 12V, EUT works at 125.95kHz and 127.7kHz
E-Field Strength	2	EUT powered by DC 12V with load(7.5W) at charging mode, EUT works at 125.95kHz and 127.7kHz
E-Field Strength	3	EUT powered by DC 12V with load(15W) at charging mode, EUT works at 125.95kHz and 127.7kHz

4. LIST OF TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
H-Field Strength,E-Field Strength				
Long, medium and short wave electromagnetic field frequency selective analyzer	narda	EHP-200A	180ZX00611	2022/05/20

5. TEST LIMIT

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
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
300-1,500			f/300	<6
1,500-100,000			5	<6
(ii) 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
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.

The EUT does comply with requirements of KDB 680106 D01.

1) Power transfer frequency is less than 1MHz

Yes, the operating frequency of the device is 125.95kHz and 127.7kHz.

2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 15W

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 pair of coils.

Yes, the transfer system includes only single primary and secondary coils.

4) Client device is inserted in or placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter.

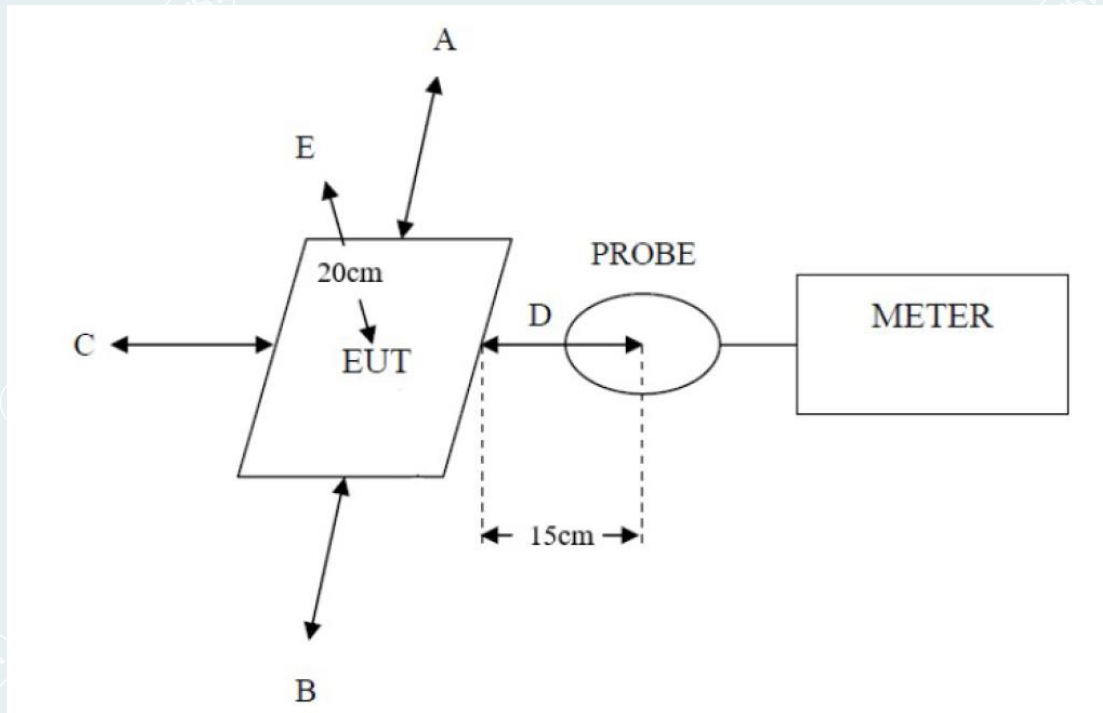
5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, the EUT is a mobile Wireless Charger.

6) The aggregate H-field strengths at 15cm surrounding the device and 20cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

Yes, the EUT field strength levels are 50% x MPE limit.

6. TEST PROCEDURES



Note: Measurements should be made from all sides and the top of EUT, with the 15cm measured from the center of the probe(s) to the edge of the device and the 20cm measured from the center of the probe(s) to the top of the device.

7. TEST RESULT

125.95kHz

H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured H-Field Strength Values(A/m)					50% Limit(A/m)	Limit (A/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Mode 1	0.129	0.118	0.108	0.109	0.119	0.815	1.63	Pass
Mode 2	0.414	0.313	0.350	0.239	0.577	0.815	1.63	Pass
Mode 3	0.578	0.465	0.453	0.303	0.628	0.815	1.63	Pass

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

EUT Test Mode	Measured E-Field Strength Values(V/m)					50% Limit(V/m)	Limit (V/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Mode 1	0.065	0.074	0.049	0.045	0.057	307	614	Pass
Mode 2	0.328	0.517	0.312	0.308	0.536	307	614	Pass
Mode 3	0.391	0.609	0.378	0.322	0.684	307	614	Pass

127.7kHz

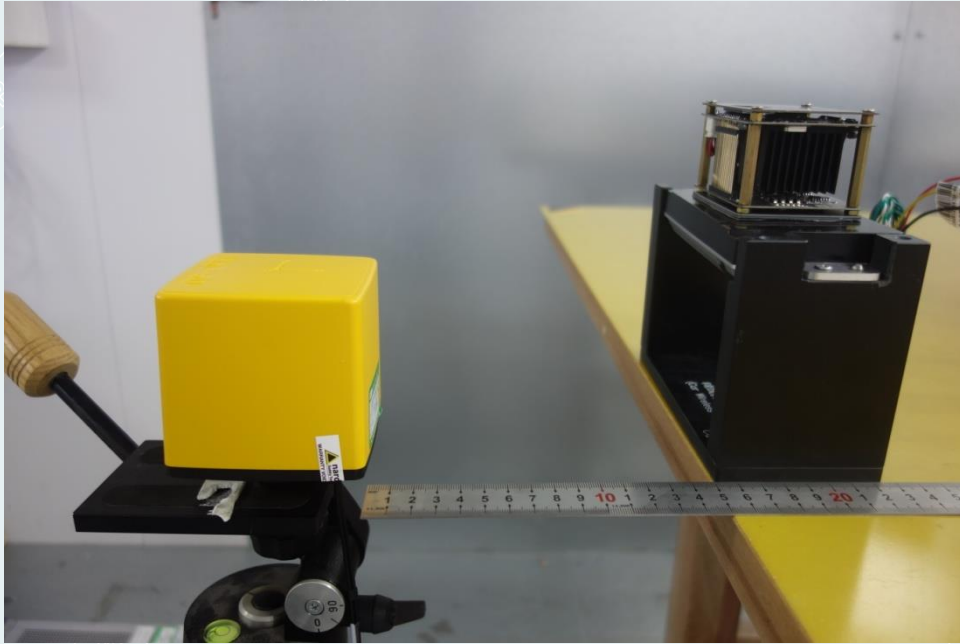
H-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured H-Field Strength Values(A/m)					50% Limit(A/m)	Limit (A/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Mode 1	0.112	0.104	0.092	0.098	0.146	0.815	1.63	Pass
Mode 2	0.079	0.136	0.154	0.036	0.170	0.815	1.63	Pass
Mode 3	0.103	0.149	0.194	0.036	0.199	0.815	1.63	Pass

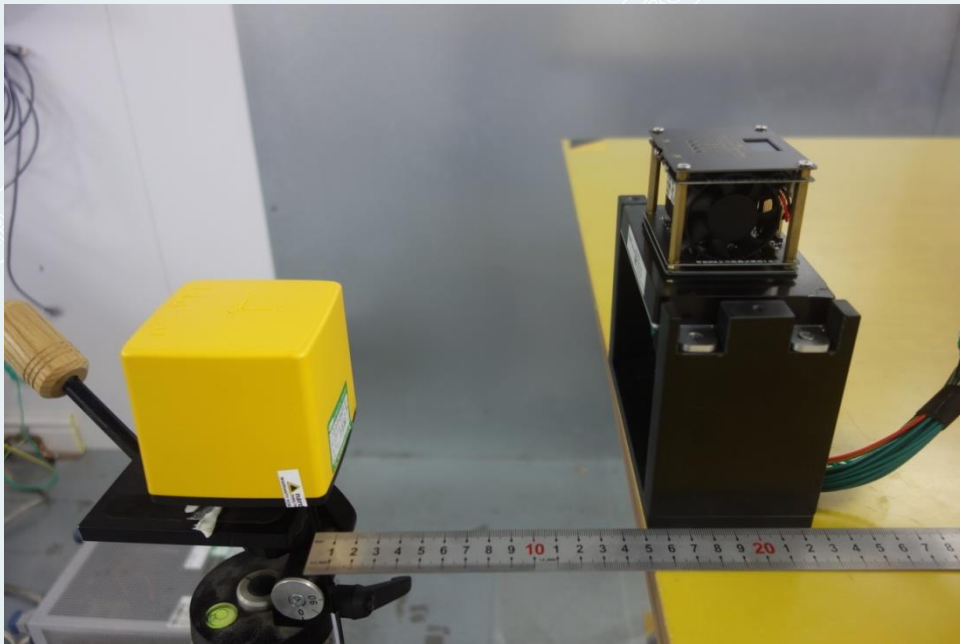
E-Field Strength at 15 cm from the edges surrounding the EUT and 20cm from the top surface of the EUT

EUT Test Mode	Measured E-Field Strength Values(V/m)					50% Limit(V/m)	Limit (V/m)	Result
	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E			
Mode 1	0.038	0.036	0.024	0.018	0.082	307	614	Pass
Mode 2	0.373	0.404	0.340	0.239	0.428	307	614	Pass
Mode 3	0.388	0.504	0.458	0.268	0.568	307	614	Pass

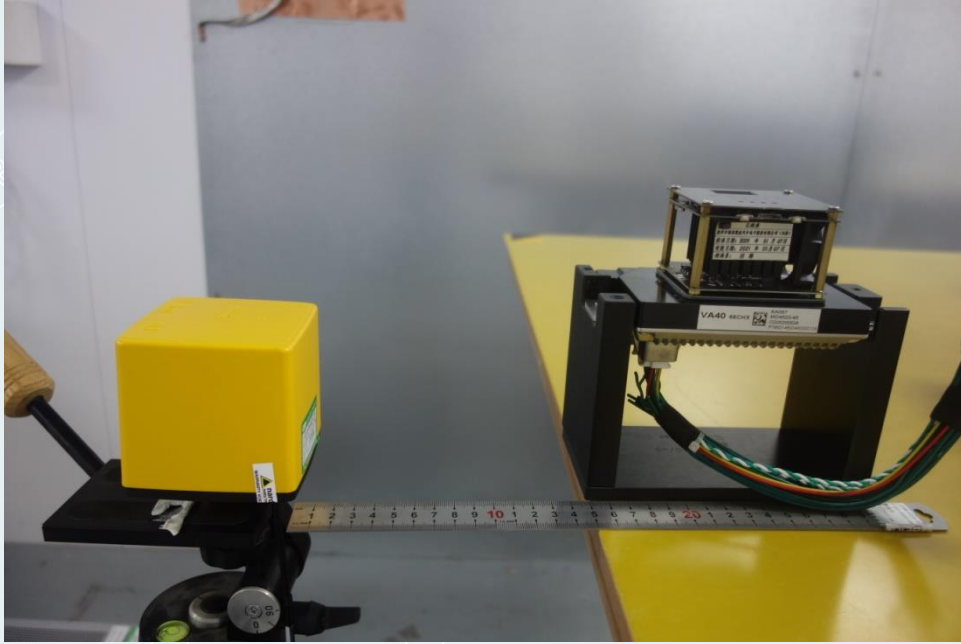
8. APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM



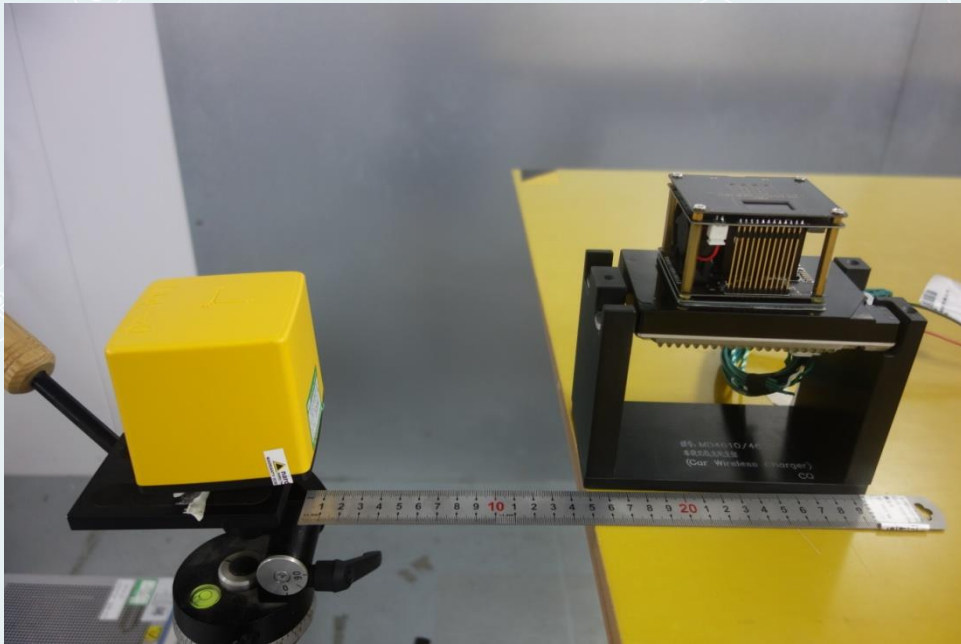
Test setup-A



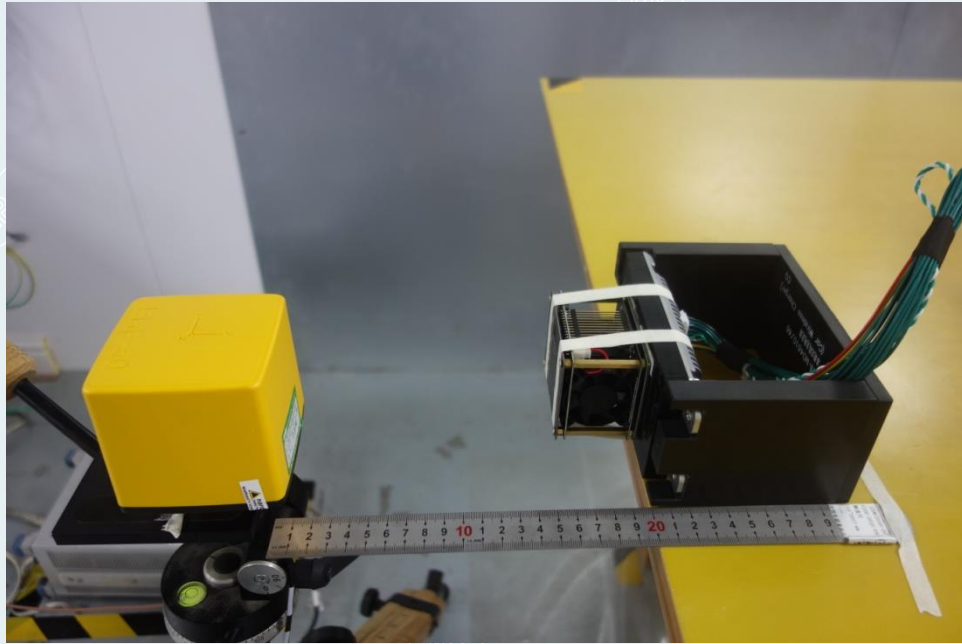
Test setup-B



Test setup-C



Test setup-D



Test setup-E

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