

**FCC RF EXPOSURE  
CERTIFICATION TEST REPORT**

*For*

**Car Wireless Charger**

**MODEL NUMBER: CHG-WIRELESS 4.0**

**REPORT NUMBER: 4791002373-RF-6**

**ISSUE DATE: March 11, 2024**

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*Prepared for*

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Development Zone, Huizhou, Guangdong, P.R. China**

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## Revision History

Rev.	Issue Date	Revisions	Revised By
V0	March 11, 2024	Initial Issue	

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## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: Huizhou Desay SV Automotive Co., Ltd.  
Address: No.103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

### Manufacturer Information

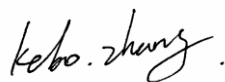
Company Name: Huizhou Desay SV Automotive Co., Ltd.  
Address: No.103, Hechang 5th Road West, Zhongkai National Hi-tech Industrial Development Zone, Huizhou, Guangdong, P.R. China

### EUT Information

EUT Name: Car Wireless Charger  
Model: CHG-WIRELESS 4.0  
Brand: /  
Sample Received Date: February 27, 2024  
Sample Status: Normal  
Sample ID: 6999389  
Date of Tested: February 27, 2024 to March 8, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§1.1307	PASS
FCC 47CFR§1.1310	PASS
FCC 47CFR§2.1093	PASS
FCC 47CFR§2.1091	PASS

Prepared By:



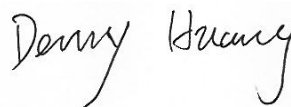
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Senior Project Engineer

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC 47CFR§1.1307(b)(1), FCC 47CFR§1.1310, FCC 47CFR§2.1093, KDB 680106 D01 Wireless Power Transfer v04.

## 3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p><b>A2LA (Certificate No.: 4102.01)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED (Company No.: 21320)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p><b>VCCI (Registration No.: G-20192, R-20202, C-20153 and T-20155)</b> UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and C-20153 Shielding Room B, the VCCI registration No. is C-20153 and T-20155</p>
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Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

#### 4. DESCRIPTION OF EUT

EUT Name	Car Wireless Charger	
Model	CHG-WIRELESS 4.0	
Product Description	Operation Frequency	125.95 kHz and 127.7 kHz
Rated Output Power	15 W	
Antenna type	Coil	
Ratings	DC 12 V	

Note 1: The EUT have 3 coils, but only 1 coil was active at one time, all the coils and circuit before antenna are the same.

Note 2: Because of the limited of the circuit, the 3 coils can't be active at the same time.

Note 3: All the 3 coils were tested, but only the worst data was recorded in the report.



**EQUIPMENT APPROVAL CONSIDERATIONS**

The EUT comply with KDB680106 D01 Wireless Power Transfer v04.

1) Power transfer frequency is less than 1 MHz.

Yes; the device operated in the frequency range from 125.95 kHz and 127.7 kHz.

2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

Yes; the maximum output power of each primary coil is 15 watts.

3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact).

Yes; Client device is placed directly in contact with the transmitter.

4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

Yes; The EUT is a mobile device.

5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

Yes; The EUT's field strength levels are less than 50% of the MPE limit.

6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

Yes; The EUT have 3 coils, but only 1 coil can be active at one time, all the coils and circuit before antenna are the same.

**MEASURING INSTRUMENT USED**

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
Electric and Magnetic Field Analyzer	Narda	EHP-200A	170WX90204	June 9, 2023	June 8, 2024



**E FIELD AND H FIELD STRENGTH TEST RESULT**

Test Mode	Description
Mode 1	Charging with 15 W (1 % battery status of client device)
Mode 2	Charging with 15 W (50 % battery status of client device)
Mode 3	Charging with 15 W (99 % battery status of client device)

Note: All the modes had been tested, but only the worst data was recorded in the report.

H-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (A/m)

Test Position	H-Filed Strength Measure Result	Limits (A/m)
	Mode 1	
	A/m	
A	0.4718	1.63
B	0.1160	1.63
C	0.4231	1.63
D	0.1356	1.63
E	0.7244	1.63
F	0.4875	1.63

E-Filed Strength at 15 cm from the edges surrounding the EUT and 20 cm above the top surface of the EUT (V/m)

Test Position	E-Filed Strength Measure Result	Limits (V/m)
	Mode 1	
	V/m	
A	0.9327	614
B	0.5642	614
C	0.9147	614
D	0.5481	614
E	1.1246	614
F	0.0875	614

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**END OF REPORT**