

RF Exposure Report

Report No.: AGC05794241101FH01

FCC ID : 2ANFN-0911-07

APPLICATION PURPOSE: Original Equipment

PRODUCT DESIGNATION: VIENNA WIRELESS CHARGING PAD WRITTING PAD

BRAND NAME : N/A

MODEL NAME : 0911-07

APPLICANT: Anhui Inno-Sign International Co., Ltd.

DATE OF ISSUE : Nov. 19, 2024

STANDARD(S) : KDB680106 D01 RF Exposure Wireless Charging Base App

V04

REPORT VERSION :

Attestation of Global Compliance (Shenzhen) Co., Ltd



Page 2 of 15

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 19, 2024	Valid	Initial Release

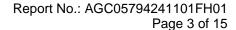
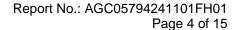




Table of Contents

1. General Information	4
2. Product Information	
2.1 Product Technical Description	5
3. Test Environment	ε
3.1 Address of The Test Laboratory	6
3.2 Test Facility	6
3.3 Environmental Conditions	6
3.4 Measurement Uncertainty	7
3.5 List of Equipment Used	7
4. Equipment Used in Tested System	8
5. Description of Test Modes	8
6. RF Exposure Measurement	9
6.1 Refer Evaluation Method	9
6.2 Measurement Limits	9
6.3 Measurement Setup	10
6.4 Measurement Procedure	
6.5 Measurement Results	13
Appendix I: Photographs of Test Setup	15





1. General Information

	·				
Applicant	Anhui Inno-Sign International Co., Ltd.				
Address	Room 1409-1410, Building B,Sky Blue Business Center, No.188 South Qianshan				
Addicoo	Road, Hefei, Anhui, China				
Manufacturer	DONGGUAN COHESION LEATHER GOODS CO., LTD				
	ROOM 301, BUILDING 1, CHASHAN ZHIGU INDUSTRIAL PARK, NO.30				
Address	WEIXING ROAD, CHASHAN TOWN, DONGGUAN CITY, GUANGDONG				
	PROVINCE				
Factory	DONGGUAN COHESION LEATHER GOODS CO., LTD				
	ROOM 301, BUILDING 1, CHASHAN ZHIGU INDUSTRIAL PARK, NO.30				
Address	WEIXING ROAD, CHASHAN TOWN, DONGGUAN CITY, GUANGDONG				
	PROVINCE				
Product Designation	VIENNA WIRELESS CHARGING PAD WRITTING PAD				
Brand Name	N/A				
Test Model	0911-07				
Series Model(s)	N/A				
Difference Description	N/A				
Date of receipt of test item	Nov. 06, 2024				
Date of Test	Nov. 06, 2024~Nov. 19, 2024				
Deviation from Standard	No any deviation from the test method				
Condition of Test Sample	Normal				
Test Result	Pass				
Test Report Form No	AGCER-FCC-RF Exposure (WPT_MPE)-V1				

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By	Jouk 6 ai	
	Jack Gui (Project Engineer)	Nov. 19, 2024
Reviewed By	Calvin Lin	
	Calvin Liu (Reviewer)	Nov. 19, 2024
Approved By	Angole Li	
	Angela Li (Authorized Officer)	Nov. 19, 2024



Page 5 of 15

2. Product Information

2.1 Product Technical Description

Equipment Specification	WPT
Operation Frequency	110.5kHz-205kHz
Hardware Version	V1.0
Software Version	V1.0
Modulation Type	FSK
Field Strength of Fundamental	76.81 dBµV/m@3m (Max)
Antenna Designation	Coil Antenna
Antenna Gain	0dBi
EUT Power Supply	DC 5V/2A by adapter
Wireless Charging Output Power	5W Max
Adapter Information	N/A



Page 6 of 15

3. Test Environment

3.1 Address of the Test Laboratory

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 Test Facility

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

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to FOLLOW CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories.)

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to follow ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.

3.3 Environmental Conditions

	Normal Conditions
Temperature range (℃)	15 - 35
Relative humidity range	20% - 75%
Pressure range (kPa)	86 - 106
Power supply	



Page 7 of 15

3.4 Measurement Uncertainty

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
E-Field Strength(0.003-0.4MHz)	±1.5dB
E-Field Strength(0.4-10MHz)	±1.3dB
H-Field Strength(0.003-0.4MHz)	±1.3dB
H-Field Strength(0.4-10MHz)	±1.2dB

3.5 List of Equipment Used

Used	Equipment No.	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
\boxtimes	AGC-RF-011	Broadband Field Meter	WAVECONTROL	SMP2	J-0004	2024-06-06	2025-06-05
\boxtimes	AGC-RF-012	Probe FHP	WAVECONTROL	WP400	J-0015	2024-06-06	2025-06-05



Page 8 of 15

4. Equipment Used in Tested System

The following peripheral devices and interface cables were connected during the measurement:

□ Test Accessories Come From The Laboratory

No.	Equipment	Model No.	Manufacturer	Specification Information	Cable
1	Phone	lphone 8	Apple Inc.		
2	Adapter	HW-200440C00	Huawei	Input (AC):100V-240V 50/60Hz 2.4A Output(DC):USB-C(5V/3A;9 V/3A;10V/4A;11V/6A;12V/3 A;15V/3A;20V4.4A) USB-A(5V/2A;10V/4A;11V/6 A;20V/4.4A)	0.8m

☐ Test Accessories Come From The Manufacturer

No.	Equipment	Manufacturer	Model No.	Specification Information	Cable
1					

5. Description of Test Modes

NO.	Test Mode Description	Exposure Conditions
1	AC/DC Adapter +DUT+ Mobile Phone (Battery Status: <1%)	Portable
2	AC/DC Adapter +DUT+ Mobile Phone (Battery Status: <50%)	Portable
3	AC/DC Adapter +DUT+ Mobile Phone (Battery Status: <100%)	Portable
4	AC/DC Adapter +DUT+ Mobile Phone (Battery Status: <1%)	Mobile
5	AC/DC Adapter +DUT+ Mobile Phone (Battery Status: <50%)	Mobile
6	AC/DC Adapter +DUT+ Mobile Phone (Battery Status: <100%)	Mobile

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.



6. RF Exposure Measurement

6.1 Refer Evaluation Method

- ANSI C95.1–1999: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
- FCC KDB publication KDB680106 D01 RF Exposure Wireless Charging Apps v04: RF Exposure Considerations for Low Power Consumer Wireless Power Transfer Applications
- FCC CFR 47 part1 1.1310: Radiofrequency radiation exposure limits.
- FCC CFR 47 part2 2.1091: Radiofrequency radiation exposure evaluation: mobile devices.
- FCC CFR 47 part2 2.1093:Radiofrequency radiation exposure evaluation: portable devices.

6.2 Measurement Limits

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time		
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)		
	Limits for Occupational/Controlled Exposure					
0.3-3.0	614	1.63	*100	6		
3.0-30	1842/f	4.89/f	*900/f²	6		
30-300	61.4	0.163	1.0	6		
300-1,500	/	/	f/300	6		
1,500-100,000	/	/	5	6		

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time	
Range(MHz)	Strength(V/m)	Strength(A/m) (mW/cm²)		(minute)	
	Limits for Gener	ral Population/Uncont	rolled Exposure		
0.3-1.34	614	1.63	*100	30	
1.34-30	824/f	2.19/f	*180/f²	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

According to FCC KDB 680106 D01v04 Section 3. RF Exposure Requirements clause 3.2 the Emission-Limits in the frequency range from 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of CFR 47 – Section 1.1310 as following:

	E-Field	*/*	B-Field
Frequency	V/m	A/m	uT
0.3 MHz – 3.0 MHz	614	1.613	2.0
3.0 MHz – 30 MHz	824/f (=27.5 _{30MHz})	2.19/f (=0.073 _{30MHz})	

A KDB inquire was required to determine/confirm the applicable limits below 100kHz.

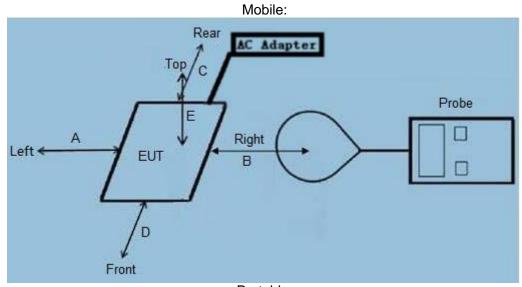
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

^{*=}Plane-wave equivalent power density



6.3 Measurement Setup



Probe

Rear

Top/C

Right

B

USB 2 Out

D

USB 1 Out

Note:

- -- RF exposure assessment tests are conducted in a shielded room.
- -- Refer to the following test method description for the test distance between the edge of the charger and the measuring probe.
- -- As shown in the above picture, the test layout is not for the real object, only the requirements of the test layout listed in the standard requirements are presented, for reference only.
- -- The actual test EUT distinguishes the test type according to the requirements as shown in the figure above.



Page 11 of 15

6.4 Equipment Approval Considerations

No.	Requirements	Conditions of the EUT
1	WPT operating frequency (or frequencies).	110.5~205kHz
2	Number of radiating structure (Coil)	Only one coil
3	Conducted Power for each radiating structure	The maximum power is 5W
4	§ 2.1091-Mobile or § 2.1093-Portable demonstrated scenarios of operation, including RF exposure compliance information	Mobile and Portable Device
5	Maximum distance from the WPT transmitter at which, by design, a load can be charged (including slow-charging operations)	Directly charge with the client (mobile phone)

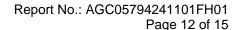
6.5 Measurement Procedure

6.5.1 For mobile RF exposure:

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) E-field and H-field measurements should be taken with the probe geometric center located 20cm around the EUT and 20cm above the top surface of the master/client pair.
- c) The highest emission level was recorded and compared with limit as soon as measurement of each point (A, B, C, D, E) were completed.
- d) The EUT were measured according to the dictates of KDB 680106 D01v04

6.5.2 For portable RF exposure:

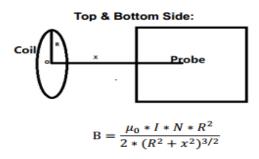
- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (from 0 cm to 20 cm, in 2 cm maximum increment) which is between the edge of the charger and the geometric center of probe.
- c) The highest emission level was recorded and compared with limit as soon as measurement of each point (A, B, C, D, E, F,) were completed.
- d) The EUT were measured according to the dictates of KDB 680106 D01v04



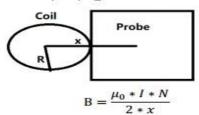


Specific Assessment Methods:

- Test performed with all the radiating structures operating at maximum power at the same time.
- H-field measurements are taken along all three axes the device from 0cm~20cm in 2cm minimum increment for each edge surface of the host/client pair. If the center of the probe sensing element is more than 5mm from the probe outer edge, the field strengths need to be estimated for the positions that are not reachable.
- According to Calibration information and specification about WP400 Probe, The Probe WP400 Probe's sensitive elements center is located in the probe's center, and the distance from the sensitive elements center to the tip of probe is 6.25cm.
- For locations that cannot be reached by numerical calculations, the actual field strengths of 0 cm, 2 cm, 4 cm, and 6 cm need to be estimated.
- Use Biot-Savart Law formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart Law formula:



Front, left, right & rear Side:



- **B (Unit: A/m)**: means H-field value:
- **µ0** is space permeability; µ0=4π*10⁻⁷;
- I(Unit: A): A current element passing through a radiated coil;
- **R(Unit: m):**means the Radius of radiated coil, According to provided Antenna specification: R=40/2=20mm=0.02m;
- **Test Distance(Unit: m):** The distance from the sensing element of the probe to the edge of the device surface.
- **x (Unit: m):** means the center of the coil to the sensing elements of the probe. (For top & bottom side: x=test distance; For other side: x=test distance+ R)
- N: Number of turns, according to providing "Antenna specification" files: N=11.
- For validation purposes: If the value to show a 30% agreement between the mode and the probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.



Page 13 of 15

6.5 Measurement Results

Mobile devices are evaluated as follows:

Operate	Field		Limit				
Mode	Strength	Position A Position B Position C		Position D	Position E	LIIIII	
Mode 1	nT	288.94	364.32	263.82	452.26	527.64	
Mode 1	A/m	0.23	0.29	0.21	0.36	0.42	1.63
Mode 1	V/m	0.749	0.755	0.743	0.768	0.749	614

Note: Unit conversion formula: 1A/m =1250*nT

Portable devices are evaluated as follows:

Validation results for the numerical calculation model

- 1) Measure with probe directed contact (test distace:6.25cm)
- 2) Using Biot-Savart formula to calculate estimated results at test distance of 8cm and 10 cm;
- 3) measure at test distance of 8 cm and 10cm;
- Compares the estimated results and measured result, the varation should not be greater than 30% 4)

	Test condition: Mode 1(Worst)																	
Distance(cm)	stance(cm) Position A			Position B			Position C		Position D		Position E			Position F				
	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.	Mea.	Est.	Var.
6.25	0.0132	/	/	0.0103	/	/	0.0117	/	/	0.0072	/	/	0.0203	/	/	0.0301	/	/
8	0.0075	0.0081	7.96	0.0062	0.0059	-4.96	0.0066	0.0064	-3.08	0.0046	0.0041	-11.49	0.0099	0.0096	-3.08	0.0133	0.0100	-28.33
10	0.0047	0.0044	-6.59	0.0034	0.0037	8.45	0.0037	0.0040	7.79	0.0024	0.0021	-13.33	0.0051	0.0054	5.71	0.0053	0.0046	-14.14

Mea.: Measured H-field(A/m)

Conclusion: The numerical calculation model is valid.

Est.: Estimated H-field(A/m)

Var.: Varation between measured and estimated value (%)



Page 14 of 15

♣ Final H-Field Emission level with a combination of measured and estimated results.

	Test condition: Mode 1(Worst)										
Distance(cm)	Time	Measured H-Field Strength Values (A/m)									
	Туре	Position A	Position B	Position C	Position D	Position E	Position F	Limit(A/m)			
0	Estimate	0.9344	0.7752	0.8264	0.5752	0.6921	0.9962	1.63			
2	Estimate	0.1168	0.0969	0.1033	0.0719	0.2447	0.3522	1.63			
4	Estimate	0.0346	0.0287	0.0306	0.0213	0.0619	0.0891	1.63			
6	Estimate	0.0146	0.0121	0.0129	0.0090	0.0219	0.0315	1.63			
8	Measured	0.0075	0.0062	0.0066	0.0046	0.0099	0.0133	1.63			
10	Measured	0.0047	0.0034	0.0037	0.0024	0.0051	0.0053	1.63			
12	Measured	0.0028	0.0023	0.0025	0.0013	0.0032	0.0027	1.63			
14	Measured	0.0026	0.0019	0.0018	0.0011	0.0029	0.0025	1.63			
16	Measured	0.0019	0.0015	0.0016	0.0009	0.0021	0.0018	1.63			
18	Measured	0.0017	0.0014	0.0014	0.0007	0.0015	0.0014	1.63			
20	Measured	0.0014	0.0011	0.0010	0.0005	0.0012	0.0012	1.63			



Page 15 of 15

Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC05794241101AP01

----End of Report----



Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. 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.
- 5. 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.
- 6. 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.
- 7.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.
- 8. 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.
- 9. 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.