

Test Report

Report No.:	MTi240122018-04E2
Date of issue:	2024-02-01
Applicant:	Shenzhen Xiangdangwen Technology Co.,Ltd.
Product:	Magnetic Wireless Charger
Model(s):	2E7119
FCC ID:	2AW73-2E7119

Shenzhen Microtest Co., Ltd. http://www.mtitest.com

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2. The test results in this test report are only responsible for the samples submitted

3. This test report is invalid without the seal and signature of the laboratory.

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 15 days from the date of receipt of the report.





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Test Result Certification					
Applicant: Shenzhen Xiangdangwen Technology Co.,Ltd.					
Address:	106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China				
Manufacturer: Huizhou Yimai Electronics Technology Co., Ltd.					
Address:	3rd Floor, Building B, Huakai High-tech Industrial Park, Electronic City Road, Longxi Street, Boluo Country				
Product description					
Product name:	Magnetic Wireless Charger				
Trademark:	emark: LISEN , AINOPE , VEICO				
Model name: 2E7119					
Series Model: N/A					
Standards:	FCC CFR 47 PART 1, § 1.1310				
Test method:	KDB 680106 D01 Wireless Power Transfer v04				
Date of Test					
Date of test:	2024-01-24 to 2024-01-29				
Test result: Pass					

Test Engineer :

Yanice Xie

(Yanice.Xie)

Reviewed By: :

leor chen

(Leon Chen)

Approved By: :

Tom Kue

(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	Magnetic Wireless Charger		
Model name:	2E7119		
Series Model:	N/A		
Model difference:	N/A		
Electrical rating:	Input: 5Vdc 2A,9Vdc 2A Wireless Output: 5W/7.5W/10W/15W		
Accessories:	ble: SB-A to USB-C Cable 100cm		
Hardware version:	V1.0		
Software version:	V1.0		
Test sample(s) number:	MTi240122018-04S1001		
RF specification:			
Operation frequency: 115-205KHz			
Modulation type:	ASK		
Antenna type:	Coil Antenna		





1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes			
Mode1	Wireless Output(5W)			
Mode2	Wireless Output(7.5W)			
Mode3	Wireless Output(10W)			
Mode4	Wireless Output(15W)			
Mode5	Standby			



1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list							
Description Model Serial No. Manufa							
Mobile phone	Find X3	/	OPPO				
MI CHARGE(33W)	GE(33W) / /		MI				
Support cable list							
Description Length (m) From To							

2 Measurement uncertainty

Parameter	Expanded Uncertainty		
Magnetic field measurement (9kHz~30MHz)	±18.6%		
Electric field measurements (9kHz~30MHz)	±18.6%		

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



3 Test facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573



4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTi-E115	Electric and Magnetic Field Probe – Analyzer		EHP-200A	101166	2023/08/14	2026/08/13



5 Test result

5.1.1 Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

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/f²)	<6				
30-300	61.4	0.163	1.0	<6				
300-1500			f/300	<6				
1500-100000			5	<6				
	(ii) Limits for Genera	al Population/Uncontrolled I	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				
300-1500			f/1500	<30				
1500-100000			1.0	<30				

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz

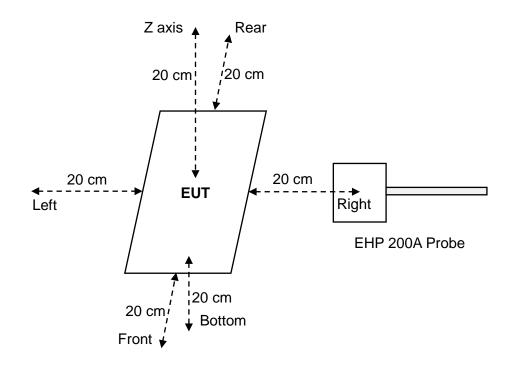
* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



5.2 Test setup



5.3 Test Procedures

a. The RF exposure test was performed in anechoic chamber.

b. E and H-field measurements should be made with these devices considered to meet the § 2.1091-Mobile conditions ("generally be used in such a way that a separation distance of at least 20 centimeters is normally maintained between the RF source's radiating structure(s) and [the nearest person]").

c. The highest emission level was recorded and compared with limit.

d. The EUT was measured according to the dictates of KDB 680106 D01 Wireless Power Transfer v04.



5.4 Equipment Approval Considerations

Requirement	Device		
1. The power transfer frequency is below 1 MHz.	Yes. The operating frequencies are: 115-205KHz		
2. The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.	Yes. The maximum output power is: 15W Max		
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. The 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. Mobile exposure conditions only.		
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/ <i>d</i> (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. See the test result in item 5.5.		
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 has three radiating structure and all scenarios have been tested.		

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5.5 Test results

Test condition 1: Mode 4 operating mode with client device (1 % battery status of client device)

Probe		E –field (V/m)			H–field (A/m)	
Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	1.2928			0.0629	4.62	0.00%
Left	0.5092			0.0554		
Right	0.7352		0.21%	0.0505		
Front	0.7820	614	0.2176	0.0708	1.63	6.83%
Rear	0.7669			0.0540	_	
Bottom	0.5404			0.1113		

Test condition 2: Mode 4 operating mode with client device (50 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
Z axis	1.2909	614	0.21%	0.0566	1.63	6.64%
Left	0.4913			0.0467		
Right	0.7185			0.0496		
Front	0.7703			0.0684		
Rear	0.7528			0.0461		
Bottom	0.5227			0.1082		

Test condition 3: Mode 4 operating mode with client device (99 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	1.276	614	0.21%	0.0546	1.63	6.55%
Left	0.509			0.0456		
Right	0.7452			0.0441		
Front	0.7915			0.064		
Rear	0.7579			0.0446		
bottom	0.5268			0.1068		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----