Test Report

Report No.:	MTi240417002-07E2
Date of issue:	2024-05-15
Applicant:	Shenzhen Xiangdangwen Technology Co., Ltd.
Product:	3-IN-1 WIRELESS CHARGING DESKTOP STAND
Model(s):	2E567
FCC ID:	2AW73-2E567

Shenzhen Microtest Co., Ltd.

http://www.mtitest.cn

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Instructions

1. This test report shall not be partially reproduced without the written consent of the laboratory.

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.

4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.

5. Any objection to this test report shall be submitted to the laboratory within 15 days from the date of receipt of the report.

Contents

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:	3-IN-1 WIRELESS CHARGING DESKTOP STAND
Trademark:	LISEN, AINOPE, VEICO
Model name:	2E567
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:	2024-04-21 to 2024-05-15
Test result:	Pass

Test Engineer	:	James Qin
		(James Qin)
Reviewed By	:	David. Lee
		(David Lee)
Approved By	:	Leon chen
		(Leon Chen)

1 General Description

1.1 Description of the EUT

Product name:	3-IN-1 WIRELESS CHARGING DESKTOP STAND
Model name:	2E567
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: DC 5V/3A, 9V/3A, 12V/3A Phone Output: 5W/7.5W/10W/15W(Qi2) Earbuds Output: 5W Watch Output: 5W
Accessories:	Cable: USB-C to USB-C Cable 100cm
Hardware version:	V1.0
Software version:	KB-T9-9516-V1
Test sample(s) number:	MTi240417002-07S1001
RF specification:	
Operation frequency:	Coil 1(Phone): 115-205kHz(5W,7.5W,10W),360 kHz(15W) Coil 2(Earphone): 115-205 kHz Coil 3(Watch): 300-350 kHz
Modulation type:	ASK
Antenna type:	Coil

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)+Earphone(5W)+Watch(5W)
Mode2	Wireless output(7.5W)+Earphone(5W)+Watch(5W)
Mode3	Wireless output(10W)+Earphone(5W)+Watch(5W)
Mode4	Wireless output(15W Qi2)+Earphone(5W)+Watch(5W)
Mode5	Wireless output(5W)+Earphone(5W)
Mode6	Wireless output(7.5W)+Earphone(5W)
Mode7	Wireless output(10W)+Earphone(5W)
Mode8	Wireless output(15W QI2)+Earphone(5WW)
Mode9	Wireless output(5W)+Watch(5W)
Mode10	Wireless output(7.5W)+Watch(5W)
Mode11	Wireless output(10W)+Watch(5W)
Mode12	Wireless output(15W Qi2)+Watch(5W)
Mode13	Earphone(5W)+Watch(5W)
Mode14	Wireless output(5W)
Mode15	Wireless output(7.5W)
Mode16	Wireless output(10W)
Mode17	Wireless output(15W Qi2)
Mode18	Watch(5W)
Mode19	Earphone(5W)
Mode20	stand by

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.	Manufacturer
Mobile phone	S9+	/	SAMSUNG
Mobile phone	iPhone 13	/	Apple
iWatch	iWatch S7	M0JVGQG1VP	Apple
Air Pods	MQD83CH/A	/	Apple
HUAWEI QUICK CHARGE(65W)	HW-200200ZP1	JN67LSN7N03451	HUAWEI
Support cable list			
Description	Length (m)	From	To
/	/	/	/

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurements(3kHz~10MHz)	±14.8%
Electric field measurements(3kHz~10MHz)	±17.5%

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-E143	Near-field Electric and Magnetic Field Sensor System	Speag	MAGPy-8H3D +ED3 V2	3101	2024/3/12	2027/3/11

No.	Equipment	Manufacturer	Model	Software version:	Cal. date	Cal. Due
MTI-E016S	MPE test software	SPEAG	MAGPY 2.4	2.4.1	/	/

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.

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

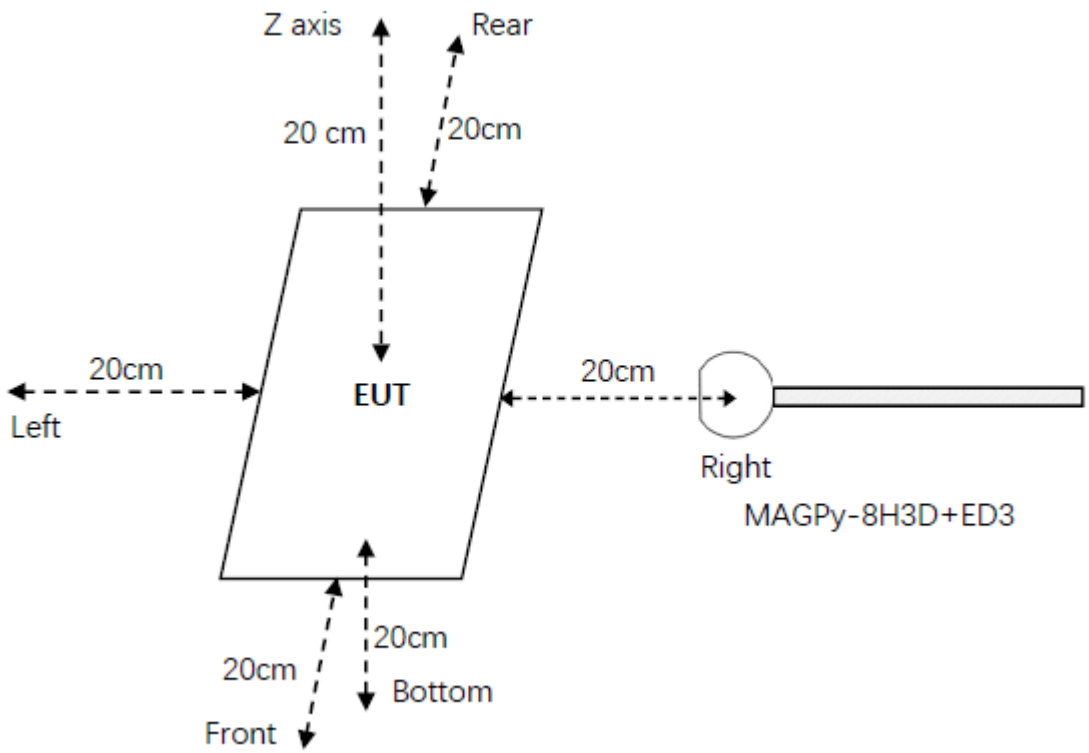
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*($900/f^2$)	<6
30-300	61.4	0.163	1.0	<6
300-1500			f/300	<6
1500-100000			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
300-1500			f/1500	<30
1500-100000			1.0	<30

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 Information of test equipment

Test equipment: MAGPy-8H3D+ED3	
Diameter	60mm
8 isotropic H-field sensors	Concentric loops of 1cm^2 arranged at the corner of a cube of 22mm side length
1 isotropic E-field sensor	Orthogonal dipole/monopple(arm length:50mm)
Measurement center	18.5mm from the probe tip
Dimensions	110*635*35mm (MAGPy-8H3D+E3D V2 & MAGPy-DAS V2)
Test probe, without the casing	

5.5 Equipment Approval Considerations

Requirement	Device
1. The power transfer frequency is below 1 MHz.	Yes. The operating frequencies are: Coil1 (Phone): 115-205kHz(5w,7.5w,10w) 360kHz(15W Qi2) Coil2 (Earphone): 115-205kHz Coil3(Watch): 300-350kHz
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: Coil1 (Phone): 15W Coil2 (Earphone): 5W Coil3(Watch): 5W
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/*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. 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.

5.6 Test results

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

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	5.29	614	1.04%	0.15	1.63	15.95%
Left	4.15			0.19		
Right	3.67			0.2		
Front	4.25			0.26		
Rear	6.36			0.18		
Bottom	5.18			0.11		

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	5.286	614	1.03%	0.1543	1.63	15.90%
Left	4.1592			0.1844		
Right	3.6852			0.1928		
Front	4.2394			0.2591		
Rear	6.3449			0.1832		
Bottom	5.1852			0.1005		

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	5.2812	614	1.03%	0.1492	1.63	15.65%
Left	4.146			0.1831		
Right	3.6664			0.1924		
Front	4.2486			0.2551		
Rear	6.3514			0.1774		
bottom	5.1754			0.1002		

Test condition 1: Mode 3 operating mode with client device (1 % battery status of client device)

Probe Position	E –field (V/m)			H–field (A/m)		
	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
Z axis	5.35	614	1.07%	0.17	1.63	19.63%
Left	4.26			0.2		
Right	3.85			0.2		
Front	4.33			0.32		
Rear	6.54			0.25		
Bottom	6.17			0.17		

Test condition 2: Mode 3 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	5.3383	614	1.06%	0.1665	1.63	19.63%
Left	4.2681			0.2029		
Right	3.8365			0.1924		
Front	4.3422			0.3199		
Rear	6.5225			0.2545		
Bottom	6.1701			0.161		

Test condition 3: Mode 3 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	5.3373	614	1.06%	0.1692	1.63	19.54%
Left	4.2508			0.1977		
Right	3.847			0.1952		
Front	4.3139			0.3185		
Rear	6.5207			0.2424		
bottom	6.1686			0.1668		

Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----