

Test Report

Report No.: MTi220930007-19E2

Date of issue: 2022-10-29

Applicant: Shenzhen Yifeng Intelligent Technology Co., Ltd.

Product: 2-in-1 Wireless Charging Pad

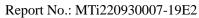
Model(s): T2S

FCC ID: 2AXY5-T2SPRO

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

Instructions

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- 2. The test results in this test report are only responsible for the samples submitted
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Test Result Certification				
Applicant:	Shenzhen Yifeng Intelligent Technology Co., Ltd.			
Address:	10th Floor, Building 2, Chaxi, Zone B, Huafeng First Science Park, Hangcheng Street, Gushu, Baoan District, Shenzhen, China.			
Manufacturer:	Shenzhen Yifeng Intelligent Technology Co., Ltd.			
Address:	10th Floor, Building 2, Chaxi, Zone B, Huafeng First Science Park, Hangcheng Street, Gushu, Baoan District, Shenzhen, China.			
Factory:	Shenzhen Yifeng Intelligent Technology Co., Ltd.			
Address:	10th Floor, Building 2, Chaxi, Zone B, Huafeng First Science Park, Hangcheng Street, Gushu, Baoan District, Shenzhen, China.			
Product description				
Product name:	2-in-1 Wireless Charging Pad			
Trademark:	YFZN			
Model name:	T2S			
Series Model:	N/A			
Standards:	FCC CFR 47 PART 1, § 1.1310			
Test method:	KDB 680106 v03r01			
Date of Test				
Date of test:	2022-10-13 ~ 2022-10-29			
Test result:	Pass			

Test Engineer	:	Jowid.
		(David Lee)
Reviewed By:	:	lear chen
		(Leon Chen)
Approved By:	:	tom Xue
		(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	2-in-1 Wireless Charging Pad
Model name:	T2S
Series Model:	N/A
Model difference:	N/A
Electrical rating:	Input: DC 9V/2A, 12V/1.5A Output: DC 5V/0.6A, 5V/1A, 7.5V/1A, 9V/1.66A Wireless Output: (Watch)3W, (Airpods)5W, (Phone)5W/7.5W/10W/15W
Accessories:	N/A
Hardware version:	V1.1
Software version:	V2573
RF specification:	
Operation frequency:	transmitter 3(Watch): 300 kHz – 350 kHz transmitter 2(Airpods): 115 kHz – 205 kHz transmitter 1(Phone): 115 kHz – 205 kHz
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		
Mode 1	Wireless Output(5W)		
Mode 2	Wireless Output(7.5W)		
Mode 3	Wireless Output(10W)		
Mode 4	Wireless Output(15W)		
Mode 5	Watch(3W)		
Mode 6	Airpods(5W)		
Mode 7	Wireless Output(3W+5W)		
Mode 8	Wireless Output(3W+7.5W)		
Mode 9	Wireless Output(3W+10W)		
Mode 10	Wireless Output(3W+15W)		
Mode 11	Wireless Output(5W+5W)		
Mode 12	Wireless Output(5W+7.5W)		
Mode 13	Wireless Output(5W+10W)		
Mode 14	Wireless Output(5W+15W)		
Mode 15	Stand-by		
The test data only show worst test mode: Mode 14			



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					
Adapter	HW-090200CH0	/	Huizhou BYD Electronics Co., Ltd.					
Mobile phone	Find X3	/	OPPO					
Earphone	/	/	XIAOMI					
Watch	/	/	SAMSUNG					
Support cable list								
Description	Length (m)	From	То					
/	/	/	/					



2 Test facilities and accreditations

2.1 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



3 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	2022/08/15	2023/08/14



4 Test result

4.1.1 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/cm²)	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	l Population/Uncontrolled E	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			

f = frequency in MHz

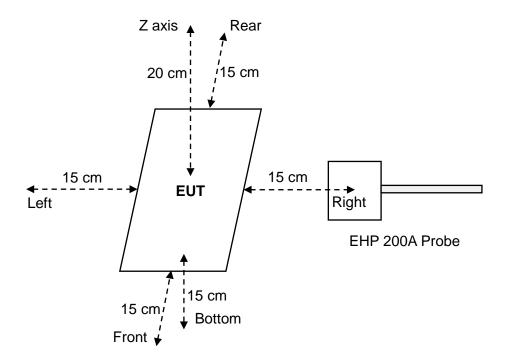
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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.

^{* =} Plane-wave equivalent power density



4.2 Test setup



4.3 Test Procedures

- a. The RF exposure test was performed in anechoic chamber.
- b. E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.
- c. The highest emission level was recorded and compared with limit.
- d. The EUT was measured according to the dictates of KDB 680106 v03r01.



4.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01

Deminerant	Davida
Requirement	Device
Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: transmitter 3(Watch): 300 kHz – 350 kHz transmitter 2(Airpods): 115 kHz – 205 kHz transmitter 1(Phone): 115 kHz – 205 kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: (Watch)3W, (Airpods)5W, (Phone)15W
3. The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	
4. Client device is placed directly in contact with the transmitter.	Yes. The 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. Mobile exposure conditions only.
6. The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes. See the test result in item 4.5.

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4.5 Test results

Test condition 1: Mode 14 operating mode with client device (1 % battery status of client device)

	Probe	E –field (V/m)		H-field (A/m)			
Antenna	Position	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
	Z axis	1.3172		0.3231			
	Left	1.5280		0.000/	0.4405	4.60	27.400/
	Right	1.9064			0.3694		
1	1 Front 2.2175 614		0.36%	0.4814	1.63	37.16%	
	Rear	2.1872			0.6057		
	Bottom	0.7702			0.3434		

Test condition 2: Mode 14 operating mode with client device (50 % battery status of client device)

Antenna	Probe	E -field obe (V/m)		H–field (A/m)			
Antenna	Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
	Z axis	1.3194	614		0.3145		
1 -	Left	1.5338		0.36%	0.4342	1.63	36.56%
	Right	1.9038			0.3622		
	Front	2.226			0.4905		
	Rear	2.1757			0.596		
	bottom	0.7792			0.3454		

Test condition 3: Mode 14 operating mode with client device (99 % battery status of client device)

Antenna	Probe Position	E –field (V/m)			H–field (A/m)		
		Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
1	Z axis	1.3045	614	0.36%	0.3158	1.63	37.04%
	Left	1.5245			0.4381		
	Right	1.8949			0.3633		
	Front	2.2175			0.4737		
	Rear	2.1741			0.6038		
	bottom	0.7591			0.3348		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----

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