

Test Report

Report No.: MTi221205015-06E2

Date of issue: 2023-01-09

Applicant: Shenzhen Yifeng Intelligent Technology Co., Ltd.

Product: 3 in 1 Foldable Wireless Charger

Model(s): T19

FCC ID: 2AXY5-T19

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

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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:	3 in 1 Foldable Wireless Charger		
Trademark:	YFZN		
Model name:	T19		
Series Model:	N/A		
Standards:	FCC CFR 47 PART 1, § 1.1310		
Test method:	KDB 680106 v03r01		
Date of Test			
Date of test:	2022-12-21 ~ 2023-01-09		
Test result:	Pass		

Test Engineer	:	Javid. Cel	
		(David Lee)	
Reviewed By:	:	leor chen	
		(Leon Chen)	
Approved By:	:	Tom Xue	
		(Tom Xue)	



1 General Description

1.1 Description of the EUT

Product name:	3 in 1 Foldable Wireless Charger
Model name:	T19
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/1.22A, 9V1.66A Wireless Output: Watch: 3W, Earphone: 5W, Phone: 5W/7.5W/10W/15W
Accessories:	N/A
Hardware version:	V11
Software version:	V79.74
RF specification:	-
Operation frequency:	Transmitter 1(Earbuds): 115 kHz – 205 kHz Transmitter 2(Coil 1 for Phone): 115 kHz – 205 kHz Transmitter 3(Coil 2 for Phone): 115 kHz – 205 kHz Transmitter 4(Watch): 300 kHz – 350 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(Coil 1 for phone))+Watch(3W)+Earphone(5W)
Mode 2	Wireless Output(7.5W(Coil 1 for phone))+Watch(3W)+Earphone(5W)
Mode 3	Wireless Output(10W(Coil 1 for phone))+Watch(3W)+Earphone(5W)
Mode 4	Wireless Output(15W(Coil 1 for phone))+Watch(3W)+Earphone(5W)
Mode 5	Wireless Output(5W(Coil 2 for phone))+Watch(3W)+Earphone(5W)
Mode 6	Wireless Output(7.5W(Coil 2 for phone))+Watch(3W)+Earphone(5W)
Mode 7	Wireless Output(10W(Coil 2 for phone))+Watch(3W)+Earphone(5W)
Mode 8	Wireless Output(15W(Coil 2 for phone))+Watch(3W)+Earphone(5W)
Mode 9	Wireless Output(5W(Coil 1 for phone))+Watch(3W)
Mode 10	Wireless Output(7.5W(Coil 1 for phone))+Watch(3W)
Mode 11	Wireless Output(10W(Coil 1 for phone))+Watch(3W)
Mode 12	Wireless Output(15W(Coil 1 for phone))+Watch(3W)
Mode 13	Wireless Output(5W(Coil 2 for phone))+Watch(3W)
Mode 14	Wireless Output(7.5W(Coil 2 for phone))+Watch(3W)
Mode 15	Wireless Output(10W(Coil 2 for phone))+Watch(3W)

Address: 101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China Tel: (86-755)88850135 Fax: (86-755) 88850136 Web: www.mtitest.com E-mail: mti@51mti.com



Mode 16	Wireless Output(15W(Coil 2 for phone))+Watch(3W)	
Mode 17	Wireless Output(5W(Coil 2 for phone))+Earphone(5W)	
Mode 18	Wireless Output(7.5W(Coil 2 for phone))+Earphone(5W)	
Mode 19	Wireless Output(10W(Coil 2 for phone))+Earphone(5W)	
Mode 20	Wireless Output(15W(Coil 2 for phone))+Earphone(5W)	
Mode 21	Wireless Output(5W(Coil 1 for phone))+Earphone(5W)	
Mode 22	Wireless Output(7.5W(Coil 1 for phone))+Earphone(5W)	
Mode 23	Wireless Output(10W(Coil 1 for phone))+Earphone(5W)	
Mode 24	Wireless Output(15W(Coil 1 for phone))+Earphone(5W)	
Mode 25	Watch(3W)+ Earphone(5W)	
Mode 26	Earphone(5W)	
Mode 27	Watch(3W)	
Mode 28	Stand-by	
ne test data only show worst test mode: Mode 4		



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	/	/	/		
Mobile phone	neo	/	iQOO		
Air Pods	/	/	Apple		
Watch	/	/	Apple		
Support cable list					
Description	Length (m)	From	То		
/	/	/	/		

2 Measurement uncertainty

Parameter	Expanded Uncertainty
Magnetic field measurement (9kHz~30MHz)	\pm 7.8%
Electric field measurements (9kHz~30MHz)	$\pm 7.8\%$

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	2022/08/15	2023/08/14

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/cm²)	Averaging time (minutes)
	(i) Limits for Occ	cupational/Controlled Expo	sure	
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

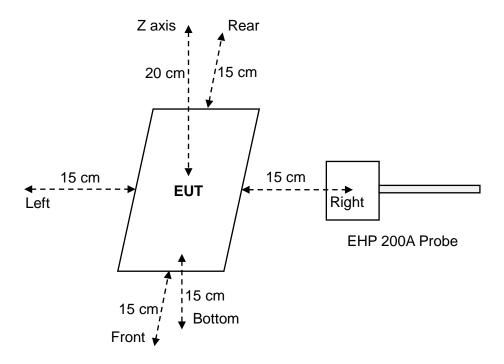
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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



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 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.



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

Requirement	Device
Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: 115 kHz – 205 kHz 300-350kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: 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.	Yes. The EUT has four source primary coils.
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.

5.5 Test results

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

Antenna	Probe Position		E –field (V/m)			H–field (A/m)	
		Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
1	Z axis	1.584	614	0.36%	0.0745	1.63	18.59%
	Left	1.7901			0.0813		
	Right	2.2113			0.0981		
	Front	1.169			0.0512		
	Rear	0.8673			0.303		
	Bottom	1.2918			0.0517		

Test condition 2: Mode 4 operating mode with client device (50 % 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	1.5805	614	0.36%	0.0796	1.63	18.33%
	Left	1.7859			0.072		
	Right	2.2205			0.1026		
	Front	1.1816			0.0471		
	Rear	0.8771			0.2987		
	bottom	1.2961			0.0544		

Test condition 3: Mode 4 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	1.5818	614	0.36%	0.0656	1.63	18.53%
	Left	1.7741			0.0781		
	Right	2.2074			0.0931		
	Front	1.1636			0.0484		
	Rear	0.8628			0.3021		
	bottom	1.2806			0.0502		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----