

Test Report

Report No.: MTi220330012-04E2

Date of issue: Apr. 18, 2022

Applicant: Shenzhen Yifeng Intelligent Technology Co., Ltd.

Product: Wireless Charging Bracket

Model(s): F3, TA1

FCC ID: 2AXY5-F3

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



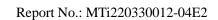
Instructions

- 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.



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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:	Wireless Charging Bracket				
Trademark:	YFZN				
Model name:	F3				
Serial Model:	TA1				
Standards:	FCC CFR 47 PART 1, § 1.1310				
Test method:	KDB 680106 v03r01				
Date of Test					
Date of test:	2022-04-07 ~ 2022-04-16				
Test result:	Pass				

Test Engineer		Yanice Xie
		(Yanice Xie)
Reviewed By:	:	leon chen
		(Leon Chen)
Approved By:	:	tom Xue
		(Tom Xue)



1 General Description

1.1 Description of the EUT

Product name:	Wireless Charging Bracket
Model name:	F3
Series Model:	TA1
Model difference:	All the models are the same circuit and module, except the model name and color.
Electrical rating:	Input: 9V2A/12V1.5A Wireless Output: 5W/7.5W/10W/15W
Accessories:	Cable: USB-C to USB-C cable 1m
Hardware version:	V1.2
Software version:	V2596
RF specification:	
Operation frequency:	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 charger (5W)			
Mode 2	/ireless charger (7.5W)			
Mode 3	Wireless charger (10W)			
Mode 4	Wireless charger (15W)			
Mode 5	Stand-by			
The test data only show worst test mode: Mode 4				

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



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				
Moible Phone	Iphone 12	/	Apple				
Moible Phone	P30 pro	/	HUAWEI				
Moible Phone	S9+	/	Samsung				
Adapter	EQ-24BCN	/	Huizhou Dongyang Yienbi Electronics Co., Ltd.				
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	2021/06/02	2022/06/01

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

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

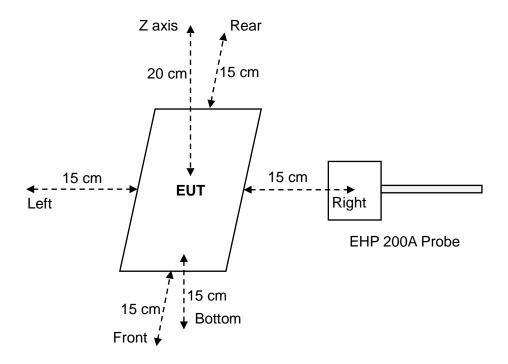
Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

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

Requirement	Device
Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: 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: 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 one 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.

4.5 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)				
Antenna	Position	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)		
	Z axis	2.1071	614		0.235	1.63	04.05%		
	Left	1.5602			0.3562				
4	Right	1.1356		0.470/	0.1718				
1	Front	2.8932		0.4	014	0.47%	0.142	1.03	21.85%
	Rear	0.9641				0.1671			
	Bottom	0.539			0.1076				

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

Antenna	Probe	E –field (V/m)			H–field (A/m)			
Antenna	Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)	
	Z axis	2.115	614		0.2294	1.63	04.000/	
	Left	1.5797			0.3553			
4	Right	1.1493		0.470/	0.1685			
1	Front	2.8995		0.47	0.47%	0.1483	1.03	21.80%
	Rear	0.9525			0.1603			
ì	bottom	0.5468			0.0987			

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	2.0929	614	0.47%	0.2273	1.63	21.65%
	Left	1.5575			0.3529		
	Right	1.1318			0.1712		
	Front	2.8803			0.1383		
	Rear	0.9463			0.1594		
	bottom	0.5327			0.1048		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----