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FCC TEST REPORT

Client Information:

Shenzhen Yifeng Intelligent Technology Co., Ltd. Applicant:

201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Applicant add.:

Cheng Street, Bao An District, Shenzhen.

Manufacturer: Shenzhen Yifeng Intelligent Technology Co., Ltd.

201, Building 4, Sanwei Chaxi Industrial Zone, Sanwei Community, Hang Manufacturer add.:

Cheng Street, Bao An District, Shenzhen.

Product Information:

Product Name: Watch Wireless Charger Power Bank

Model No.: P2

Brand Name: YFZN

FCC ID: 2AXY5-P2

FCC Rules and Regulations part 2.1091 Applicable standards:

KDB680106 D01v03

Prepared By:

Dongguan Yaxu (AiT) Technology Limited

No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan,

Guangdong, China

Tel.: +86-769-8202 0499 Fax.: +86-769-8202 0495

Date of Receipt: Sep. 12, 2023 Date of Test: Sep. 12, 2023~ Sep. 13, 2023

Date of Issue: Sep. 14, 2023 Test Result: Pass

This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

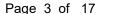
Note: This report shall not be reproduced except in full, without the written approval of Dongguan Yaxu (AiT) Technology Limited, this document may be altered or revised by Dongguan Yaxu (AiT) Technology Limited, personal only, and shall be noted in the revision of the document. This test report must not be used by the client to claim product endorsement.

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1 Test Facility

The test facility is recognized, certified or accredited by the following organizations: .CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2017 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on April 18, 2022

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FCC-Registration No.: 703111 Designation Number: CN1313

Dongguan Yaxu (AiT) technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 6819A CAB identifier: CN0122

The 3m Semi-anechoic chamber of Dongguan Yaxu (AiT) technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6819A

A2LA-Lab Cert. No.: 6317.01

Dongguan Yaxu (AiT) technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

1.1 Deviation from standard

None

1.2 Abnormalities from standard conditions

None

1.3 Test Location

Dongguan Yaxu (AiT) Technology Limited

Address: No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

Tel.: +86-769-8202 0499 Fax.: +86-769-8202 0495

1.4 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15-35 ° C		
Humidity:	30-60 %		
Atmospheric pressure:	950-1050mbar		

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2 General Information

2.1 Product Description

EUT Name:	Watch Wireless Charger Power Bank			
Model No:	P2			
Serial Model:	N/A			
Test sample(s) ID:	23091201			
Sample(s) Status:	Engineer sample			
Serial No.:	N/A			
Operation frequency:	250kHz-350kHz			
Modulation Technology:	ASK			
Antenna Type:	loop coil Antenna			
Antenna gain:	0dBi			
Hardware version.:	N/A			
Software version.:	N/A			
	Capacity: 1200mAh			
Power supply:	Input: DC 5V-2A			
	Output: 3W (MAX)			
Note:	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.			

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2.2 Description of the test mode

Equipment under test was operated during the measurement under the following conditions:

☑ Charging and communication mode

Test Mode	Description				
Mode 1 AC Adapter: EUT + Watch					
Mode 2 Battery: EUT + Watch		Record			
Mode 3 Test the EUT in idle mode.					
Note: All test	Note: All test modes were pre-tested, but we only recorded the worst case in this report.				

2.3 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Technical Parameters	Certificate	Provided by	
Watch	Apple	S6	/	FCC	laboratory	



2.4 Summary of measurement results

Test Item	Result
Magnetic Field Strength (H) (A/m)	Compliant

2.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Global Test Service Co.,Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	0.009MHz-30MHz	3.10dB	(1)
Radiated Emission	30MHz-1GHz	3.75dB	(1)
Radiated Emission	1GHz-18GHz	3.88dB	(1)
Radiated Emission	18GHz-40GHz	3.88dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	1.20dB	(1)
Note (1). The measurement un	certainty is for coverage factor of	of k=2 and a level of confidence	e of 95%

2.6 Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	SN.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX10505	2022.06.21	2024.06.20





3 TEST CONDITIONS AND RESULTS

3.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

According KDB 680106 D01 RF Exposure Wireless Charging App v03

3.2 Limit

Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

Frequency	Electric Field			Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)
	Limits for Occupational/Controlled Exposure			
0.3 - 3.0	0.3 – 3.0 614 1		(100) *	6
3.0 - 30	1842/f	4.89/f	(900/f)*	6
30 – 300	61.4	0.163	1.0	6
300 – 1500	1	/	f/300	6
1500 - 100,000	/	/	5	6

Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

Frequency	Electric Field	Magnetic Field	Power Density	Averaging Time
Range(MHz)	Strength(V/m)	Strength(A/m)	(mW/cm²)	(minute)
	Limits for Occupational/Controlled Exposure			
0.3 - 3.0	614	1.63	(100) *	30
3.0 - 30	824/f	2.19/f	(180/f)*	30
30 – 300	27.5	0.073	0.2	30
300 – 1500	/	/	f/1500	30
1500 – 100,000	1	1	1.0	30

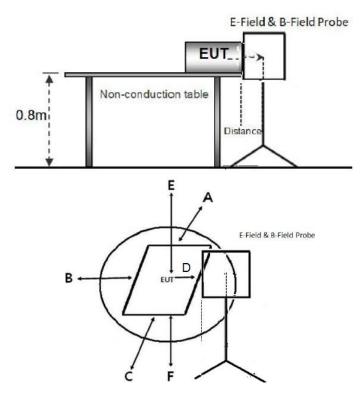
F=frequency in MHz

^{*=}Plane-wave equivalent power density



3.3 Test Setup

1. Block diagram of EUT configuration



Note: A, B, C, D, E, F for six surfaces of the product.

3.4 Measurement Procedure

For mobile RF exposure For mobile RF exposure

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance which is between the edge of the charger and the geometric center of probe.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- e) The EUT were measured according to the dictates of KDB 680106D01v03.

For portable RF exposure

- a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
- b) The measurement probe was placed at test distance (0cm) which is between the edge of the charger and the geometric center of probe.
- c) The turn table was rotated 360d degree to search of highest strength.
- d) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
- e). Repeated measured (a) (d) at measure distance 2 cm, 4cm, 6cm,8cm,10cm,1 2 cm, 14cm, 16cm,18cm and 20cm.
- f) The EUT were measured according to the dictates of KDB 680106D01v03.

3.5 Test Result of E and H field Strength

Temperature: 25.7℃		Humidity:	58%	
Test Engineer:	Simba Huang	Test site:	Anechoic chamber	



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E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

Unit	Test mode	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	50% Limits (V/m)	Limits (V/m)
V/m	TM1	50.281	54.627	59.558	49.743	46.851	307	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Unit	Test mode	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	50% Limits (A/m)	Limits (A/m)
A/m	TM1	0.201	0.187	0.202	0.165	0.183	0.815	1.63

H-Filed Strength at 20 cm from the top of the EUT (A/m)

Unit	Test mode	Test Position E	50% Limits (A/m)	Limits (A/m)	
A/m	TM1	0.201	0.815	1.63	

H-Field Strength at 0-20 cm from the edges surrounding the EUT

		1111010	Measured H-Field Strength Values (A/m)							FCC H-Field	
Test	Unit	Measured Distance	Test	Test	Test	Test	Test	Test	Strength (A/m)		
Conditions	O	(cm)	Position A	Position B	Position C	Position D	Position E	Position F	Limit s	50% Limits	
TM2	A/m	0	0.4393	0.2835	0.3887	0.5380	0.0400	0.3738	1.63	0.815	
TM2	A/m	2	0.3872	0.3079	0.3410	0.2907	0.1611	0.3859	1.63	0.815	
TM2	A/m	4	0.4296	0.2828	0.2587	0.2129	0.0505	0.2733	1.63	0.815	
TM2	A/m	6	0.2345	0.4308	0.2714	0.2653	0.0257	0.2715	1.63	0.815	
TM2	A/m	8	0.0953	0.1946	0.3060	0.1546	0.0691	0.2040	1.63	0.815	
TM2	A/m	10	0.3565	0.2952	0.4041	0.3577	0.0081	0.1658	1.63	0.815	
TM2	A/m	12	0.3774	0.3187	0.4040	0.1700	0.1748	0.2825	1.63	0.815	
TM2	A/m	14	0.1288	0.1995	0.5152	0.1454	0.1424	0.1409	1.63	0.815	
TM2	A/m	16	0.1629	0.2992	0.3834	0.2602	0.0995	0.1402	1.63	0.815	
TM2	A/m	18	0.1884	0.1429	0.4750	0.1940	0.2756	0.2202	1.63	0.815	
TM2	A/m	20	0.3000	0.2889	0.4647	0.0041	0.2231	0.1132	1.63	0.815	

E-Field Strength at 0-20 cm from the edges surrounding the EUT

E-Field Strength at 0-20 cm from the edges surrounding the EO1											
	11.24	Measured	Measured E-Field Strength Values (V/m)							FCC E-Field	
Test									Stre	ngth	
			Test	Test	Test	Test	Test	Test	(V/m)		
Conditions	Unit	Distance	Position	Position	Position	Position	Position	Position			
		(cm)	Α	В	С	D	E	F	Limit	50%	
									s	Limits	
TM2	V/m	0	80.82	80.90	80.51	80.13	83.10	80.83	614	307	
TM2	V/m	2	76.56	74.71	73.87	72.62	74.44	77.63	614	307	
TM2	V/m	4	73.00	70.47	69.24	71.52	70.73	73.18	614	307	
TM2	V/m	6	68.63	66.91	66.90	67.63	66.08	68.37	614	307	
TM2	V/m	8	65.09	63.40	64.45	64.49	63.33	62.91	614	307	
TM2	V/m	10	61.76	61.11	61.80	60.68	59.93	59.50	614	307	
TM2	V/m	12	58.13	56.08	57.54	57.23	56.29	55.04	614	307	
TM2	V/m	14	55.52	54.72	54.21	50.18	49.93	50.03	614	307	
TM2	V/m	16	46.82	47.36	47.35	47.15	45.38	43.60	614	307	
TM2	V/m	18	39.41	42.91	41.19	40.91	38.61	41.40	614	307	
TM2	V/m	20	38.65	39.74	39.99	38.71	37.20	38.46	614	307	



Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

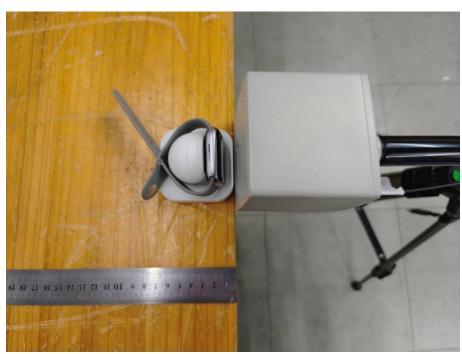
Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 250kHz-350kHz
Output power from each primary coil is less than or equal to 15 watts	Yes	The maximum output power for each primary coil is 3W.
The system may consist 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 transfer system includes only one primary coils.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	No	Mixed mobile and portable exposure conditions
The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	Yes	The EUT H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

3.6 Conclusion

A minimum safety distance of 0 cm to the antenna is required when the device is charging a smart phone for portable exposure and 20 cm to the antenna for mobile exposure. The detected emissions are below the limitations according FCC KDB 680106 and confirmed by the FCC according to KDB Inquire.



4 Test Setup Photos of the EUT



Test Position A-0cm from the edge of EUT to the geometric center of the probe



Test Position B-0cm from the edge of EUT to the geometric center of the probe



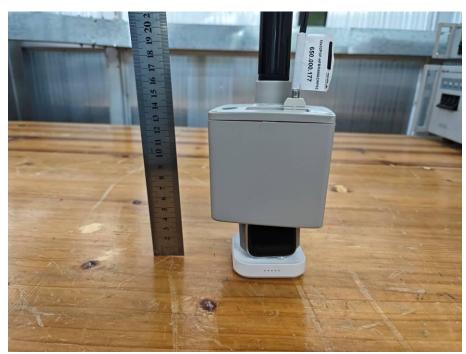


Test Position C-0cm from the edge of EUT to the geometric center of the probe



Test Position D-0cm from the edge of EUT to the geometric center of the probe





Test Position E-0cm from the edge of EUT to the geometric center of the probe



Test Position F-0cm from the edge of EUT to the geometric center of the probe





Test Position A-20cm from the edge of EUT to the geometric center of the probe

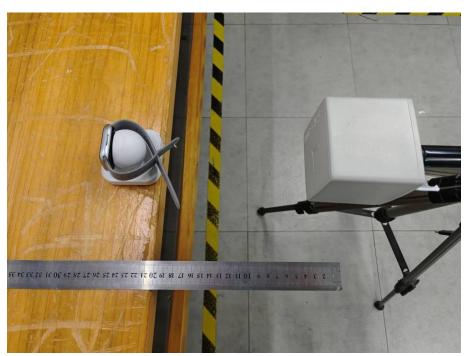


Test Position B-20cm from the edge of EUT to the geometric center of the probe



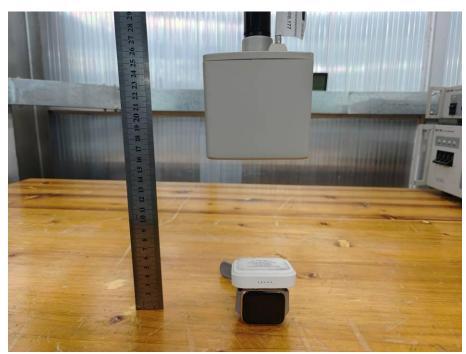


Test Position C-20cm from the edge of EUT to the geometric center of the probe

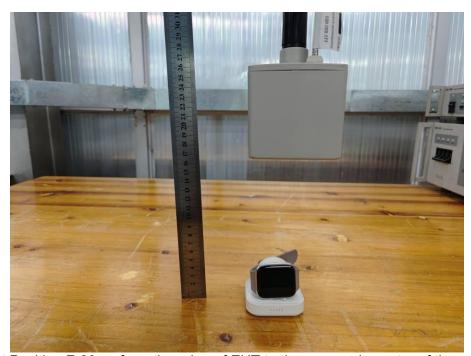


Test Position D-20cm from the edge of EUT to the geometric center of the probe



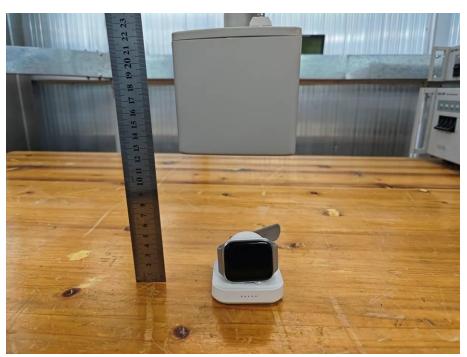


Test Position E-20cm from the edge of EUT to the geometric center of the probe



Test Position F-20cm from the edge of EUT to the geometric center of the probe





Test Position F-15cm from the edge of EUT to the geometric center of the probe

** End of report **