

TEST REPORT

Reference No...... : WTX22X04063547W002
FCC ID : 2A6IL-THX-WX38
Applicant : Shenzhen TaiHuaXin Technology Co.,LTD.
Address : 705, Building B , Huahai Business Building, No. 8, Haihui Road, Haihua community, Xin'an street, Bao'an District, Shenzhen, Guangdong, China
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : 3 IN 1 FOLDABLE WIRELESS CHARGER
Model No...... : THX-WX38
Standards : KDB 680106 D01 V03
Date of Receipt sample : 2022-04-07
Date of Test..... : 2022-04-07 to 2022-05-06
Date of Issue : 2022-05-06
Test Report Form No. : WTX_KDB 680106 D01 V03W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,

Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel.: +86-755-33663308 Fax.: +86-755-33663309 Email: sem@waltek.com.cn

Tested by:

Jack Huang

Jack Huang

Approved by:

Silin Chen

Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2022-05-06	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	3 IN 1 FOLDABLE WIRELESS CHARGER
Trade Name:	/
Model No.:	THX-WX38
Adding Model(s):	/
<i>Note: The test data is gathered from a production sample, provided by the manufacturer.</i>	

Technical Characteristics of EUT	
Frequency Range:	110~205KHz; 320-330KHz
Modulation Type:	ASK/FSK
Antenna Type:	Coil Antenna
Antenna Gain	0dBi
Rated Voltage:	Input: 9V 2.5A
Rated Current:	Input: 2.5A
Rated Power:	Output: 5W/ 7.5W/ 10W/ 15W for Smart phone Output: 5W (Air pods) Output:2.5W (Apple Watch)

1.2 Auxiliary Equipment List and Details

Auxiliary Equipment List and Details

Description	Manufacturer	Model	Serial Number
wireless charging tester	YBZ	YBZ wireless charging tester	/
Adapter	Xiaomi	MDY-08-ES	/
Smart phone	Apple	IPhone 12 Pro Max	/
Air pods	Apple	A2190	/
Apple Watch	Apple	MKJP3CH/A	/

Special Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
USB Cable	1.20	Unshielded	Without Ferrite

1.3 Test Equipment List and Details

Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200AC	180ZX10226	2021-05-20	2024-05-19

2. RF Exposure Test Report

2.1 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

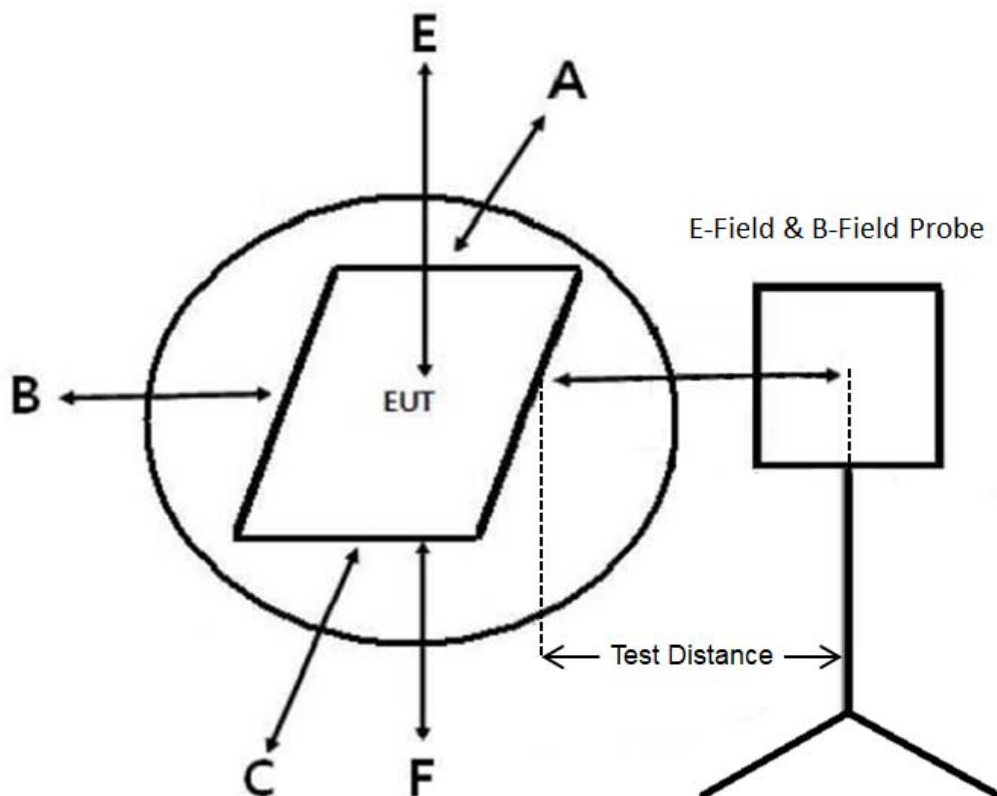
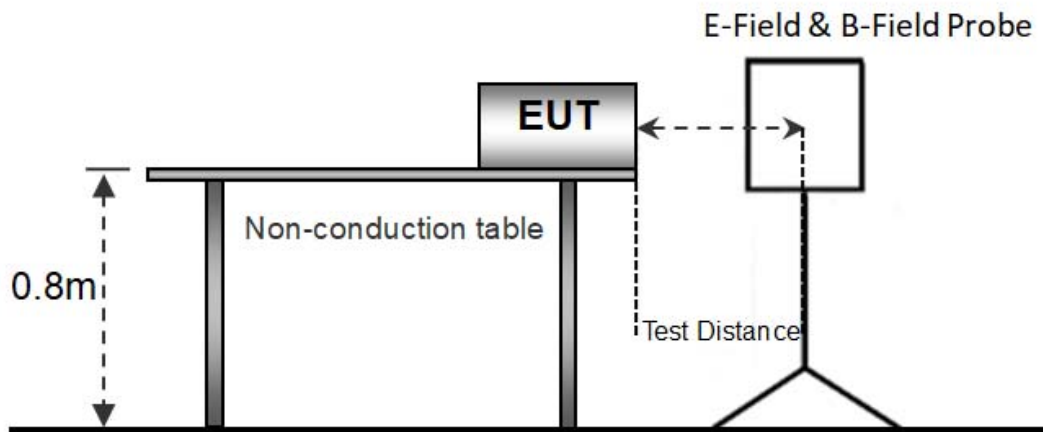
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1,500			f/300	6
1,500-100,000			5	6
(B) 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
300-1,500			f/1500	30
1,500-100,000			1.0	30

f = frequency in MHz * = Plane-wave equivalent power density

2.2 Test Conditions

Test Mode	Description	Remark
TM1	Wireless Charging	Output 5W (Phone)
TM2	Wireless Charging	Output 10W (Phone)
TM3	Wireless Charging	Output 15W (Phone)
TM4	Wireless Charging	Output 5W (Earbuds)
TM5	Wireless Charging	Output 2.5W (Watch)
TM6	Wireless Charging	Output 15W (Phone) + Output 5W (Earbuds) + Output 2.5W (Watch)
Measurement Distance:	15 cm	

2.3 Test Procedure



- The measurement probe was placed at test distance(15 cm for A,B,C,D,F and 20 cm for E) which is between the edge of the charger and the geometric center of probe.
- The highest emission level was recorded at the measurement points(A, B, C, D, E, F).
- The EUT was measured according to the distance of KDB 680106 D01 V03.

2.4 Test Result

The EUT complies with item 5.2 of KDB 680106 D01V03

1. Power transfer frequency is less than 1 MHz
Yes, the device operates in the frequency range from 110kHz to 205kHz.
2. Output power from each primary coil is less than or equal to 15 watts
Yes, the maximum output power of the primary coil is less than 15W.
3. The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
Yes, the client device includes only single primary coils.
4. Client device is inserted in or placed directly in contact with the transmitter
Yes, 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, It is mobile exposure conditions only.
6. 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, TM6 is the simultaneous mode, and it is less than 50% of the MEP limit.

Test Mode: TM1

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	3.7560	614	307
Point F	3.1000	614	307
Point A	0.6547	614	307
Point B	1.5242	614	307
Point C	2.1067	614	307
Point D	1.1198	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.4051	1.63	0.815
Point F	0.3514	1.63	0.815
Point A	0.2014	1.63	0.815
Point B	0.1410	1.63	0.815
Point C	0.0654	1.63	0.815
Point D	0.2150	1.63	0.815

Test Mode: TM2

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	4.6797	614	307
Point F	3.1010	614	307
Point A	2.1104	614	307
Point B	0.6574	614	307
Point C	1.0054	614	307
Point D	2.0485	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.5014	1.63	0.815
Point F	0.2412	1.63	0.815
Point A	0.3241	1.63	0.815
Point B	0.4110	1.63	0.815
Point C	0.3365	1.63	0.815
Point D	0.0524	1.63	0.815

Test Mode: TM3

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	5.6782	614	307
Point F	3.2010	614	307
Point A	2.0001	614	307
Point B	1.4745	614	307
Point C	4.0024	614	307
Point D	3.0014	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.6301	1.63	0.815
Point F	0.2144	1.63	0.815
Point A	0.3541	1.63	0.815
Point B	0.3344	1.63	0.815
Point C	0.0257	1.63	0.815
Point D	0.0540	1.63	0.815

Test Mode: TM4

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	0.2817	614	307
Point F	0.1024	614	307
Point A	0.2004	614	307
Point B	0.0064	614	307
Point C	0.1157	614	307
Point D	0.1951	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.1866	1.63	0.815
Point F	0.1014	1.63	0.815
Point A	0.1541	1.63	0.815
Point B	0.0641	1.63	0.815
Point C	0.1224	1.63	0.815
Point D	0.0694	1.63	0.815

Test Mode: TM5

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	0.6305	614	307
Point F	0.5066	614	307
Point A	0.2001	614	307
Point B	0.3110	614	307
Point C	0.3235	614	307
Point D	0.1255	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.1850	1.63	0.815
Point F	0.1662	1.63	0.815
Point A	0.1234	1.63	0.815
Point B	0.0154	1.63	0.815
Point C	0.0255	1.63	0.815
Point D	0.1010	1.63	0.815

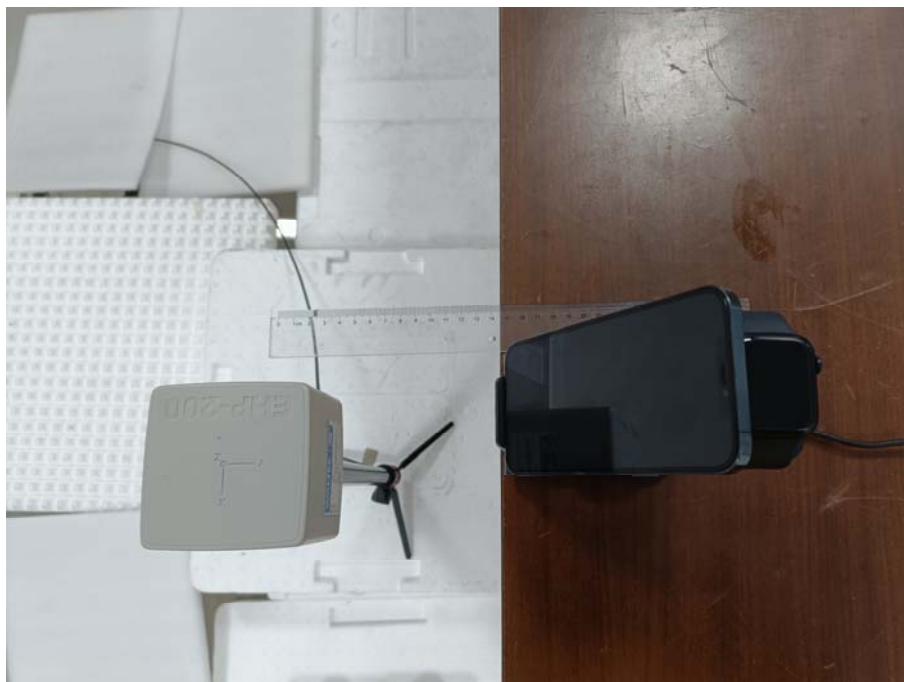
Test Mode: TM6

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Point E	2.4922	614	307
Point F	1.1433	614	307
Point A	1.0391	614	307
Point B	0.1953	614	307
Point C	0.2117	614	307
Point D	0.4510	614	307
Magnetic Field Emissions			
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Point E	0.3449	1.63	0.815
Point F	0.1503	1.63	0.815
Point A	0.2173	1.63	0.815
Point B	0.1788	1.63	0.815
Point C	0.1125	1.63	0.815
Point D	0.2004	1.63	0.815

2.5 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
Electric Field Emissions	Radiated	± 1.56 (V/m)
Magnetic Field Emissions	Radiated	± 0.08 (A/m)

2.6 Test Photos



APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

***** END OF REPORT *****