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FCC Test Report

Test Report On Behalf of ShangXing Technology(ShenZhen) Co.,Ltd. For 3-in-1 Foldable Magnetic Wireless Charger Model No.: X63ZI

FCC ID: 2APDM-X63ZI

Prepared For :

ShangXing Technology(ShenZhen) Co.,Ltd. Room 408, 4th Floor, Building 30.Wisdomland Business Park, Guankou 2nd road, Nantou, Nanshan, Shenzhen, China

Prepared By :

Shenzhen HUAK Testing Technology Co., Ltd.

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 Date of Test:
 May 23, 2024 ~ Jun. 11, 2024

 Date of Report:
 Jun. 11, 2024

 Report Number:
 HK2405232654-2E

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Report No.: HK2405232654-2E

Test Result Certification

Applicant's Name:	ShangXing Technology(ShenZhen) Co.,Ltd.
Address:	Room 408, 4th Floor, Building 30.Wisdomland Business Park, Guankou 2nd road, Nantou, Nanshan, Shenzhen, China
Manufacturer's Name:	ShangXing Technology(ShenZhen) Co.,Ltd.
Address:	Room 408, 4th Floor, Building 30.Wisdomland Business Park, Guankou 2nd road, Nantou, Nanshan, Shenzhen, China
Product Description	
Trade Mark:	N/A
Product Name	3-in-1 Foldable Magnetic Wireless Charger
Model and/or type reference :	X63ZI

Standards FCC CFR 47 PART 18, KDB 680106 D01

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Date of Test	
Date (s) of performance of tests	May 23, 2024 ~
Date of Issue	Jun. 11, 2024
Test Result	Pass

Testing Engineer

len lia

Jun. 11, 2024

Len Liao

Technical Manager

Mon (DY

Sliver Wan

Authorized Signatory

ason Mou

Jason Zhou

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2.

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Channel List								
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
01	145	02	133	03	128		0	
		TESTING			TES	ING.		
TESTING		HUPIT	18	UUNC	HUAN		TESTINO	

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

2. Summary of Test Results

2.1. Test procedures according to the technical standards:

FCC KDB 680106 D01 Wireless Power Transfer v04

-			
	FCC CFR 47		
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1,	Electric Field Strength (E) (V/m)	PASS	HUAKTESTING
1.1310 KDB 680106 - D01v04	Magnetic Field Strength (H) (A/m)	PASS	UNKTESTING

2.2. Measurement Uncertainty

The reported uncertainty of measurement y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

Item	Uncertainty
All Emissions, Radiated(<30M)(9KHz-30MHz)	±3.90dB
Temperature	±0.5°C
Humidity	±2%
	All Emissions, Radiated(<30M)(9KHz-30MHz) Temperature

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2.3. Test Instruments

Description	Brand	Model No.	S/N	Calibrated Date	Calibrated Until
Electric and Magnetic Field Analyzer	narda	EHP-200AC	180ZX11028	Feb. 20, 2024	Feb. 19, 2025

NOTE: 1. The calibration interval of the above test instruments is 12 months.

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2.4. Test Mode

Test Item	Test Mode	Description
0	Mode 1	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Earphones (Battery Status: <1%) + Watch (Battery Status: <1%)
HUAK TESTING	Mode 2	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Earphones (Battery Status: <50%) + Watch (Battery Status: <1%)
HUAKTESTING	Mode 3	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Earphones (Battery Status: >95%) + Watch (Battery Status: <1%)
risting	Mode 4	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Earphones (Battery Status: <1%) + Watch (Battery Status: <50%)
WANTESTING	Mode 5	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Earphones (Battery Status: <50%) + Watch (Battery Status: <50%)
0	Mode 6	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Earphones (Battery Status: >95%) + Watch (Battery Status: <50%)
MPE Test	Mode 7	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%) + Earphones (Battery Status: <1%) + Watch (Battery Status: >95%)
Cases	Mode 8	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%) + Earphones (Battery Status: <50%) + Watch (Battery Status: >95%)
STAR	Mode 9	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%) + Earphones (Battery Status: >95%) + Watch (Battery Status: >95%)
1011-	Mode 10	AC/DC Adapter + EUT + Mobile phone (Battery Status: <1%)
WAK TESTIN	Mode 11	AC/DC Adapter + EUT + Mobile phone (Battery Status: <50%)
0.	Mode 12	AC/DC Adapter + EUT + Mobile phone (Battery Status: >95%)
	Mode 13	AC/DC Adapter + EUT + Earphones (Battery Status: <1%)
TESTING	Mode 14	AC/DC Adapter + EUT + Earphones (Battery Status: <50%)
C HUAN	Mode 15	AC/DC Adapter + EUT + Earphones (Battery Status: >95%)
TING	Mode 16	AC/DC Adapter + EUT + Watch (Battery Status: <1%)
HUAKTEST	Mode 17	AC/DC Adapter + EUT + Watch (Battery Status: <50%)
9	Mode 18	AC/DC Adapter + EUT + Watch (Battery Status: >95%)
TESTING	Mode 19	AC/DC Adapter + EUT (Null Load)

Note: 1. All modes and configurations above have been tested, the report only shows the worst-case.

2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

3. The Mobile Phone, earphones and watch are provided by Lab.

4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.

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3. Maximum Permissible Exposure

Limit of Maximum Permissible Exposure

	Limits for Occ	upational / Controlle	ed Exposure		
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ², H ² or S (minutes)	
0.3-3.0	614	1.63	(100)*	6	
3.0-30	1842 / f	4.89 / f	(900 / f)*	6.500	
30-300	61.4	0.163	1.0	6	
300-1500	AK TESTING		F/300	6	
1500-100,000	ne Ou		5	STING 6 TESTING	
	Limits for General	Population / Uncon	trolled Exposure		
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ², H ² or S (minutes)	
0.3-1.34	614	1.63	(100)*	30	
	824/f	2.19/f	(180 / f)*	30	
30-300	27.5	0.073	0.2	30	
300-1500		C HUAR	F/1500	30	
1500-100,000	TESTING		TETING	30	

Note 1: f = frequency in MHz; *Plane-wave equivalent power density.

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 Wireless Power Transfer v04.

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

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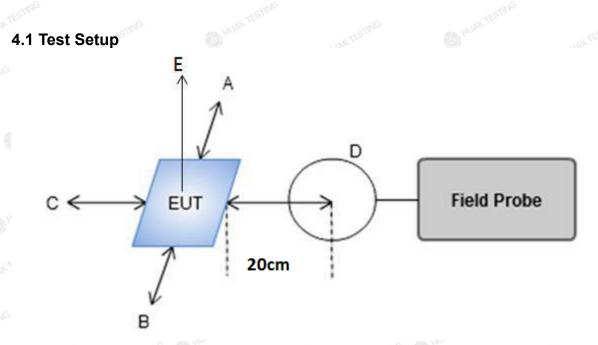




4. Test Procedure

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of (H-field & E- field strengths for all sides is 20cm).

E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm measured from the center of the probe(s) to the edge of the device.



4.2 Result of Maximum Permissible Exposure

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All test modes complete the test. Only the full load test was the worst results reported below:

ANT 1: Mobile phone

Mobile phone battery charge is less than 1% (145 KHz)

E-Field Strength at 20 cm from the edges surrounding the EUT (V/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (V/m)
V/m	0.6437	0.8269	0.8601	0.7970	0.6299	614

H-Field Strength at 20 cm from the edges surrounding the EUT (A/m)

st	Field trength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
ESTIN	A/m	0.0133	0.0162	0.0166	0.0136	0.0117	1.63

ANT 2: Earphone

Watch battery charge is less than 1% (133 KHz)

E-Field Strength at 20 cm from the edges surrounding the EUT (V/m)

ALAK	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (V/m)
	V/m	0.3727	0.4765	0.5315	0.5156	0.4233	614

H-Field Strength at 20 cm from the edges surrounding the EUT (A/m)

570	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
	A/m	0.0167	0.0221	0.0232	0.0232	0.0212	1.63

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ANT 3: Watch

Earphones battery charge is less than 1% (128 KHz)

E-Field Strength at 20 cm from the edges surrounding the EUT (V/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (V/m)
V/m	0.1148	0.0963	0.0898	0.0644	0.1000	614

H-Field Strength at 20 cm from the edges surrounding the EUT (A/m)

-11	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
	A/m	0.0162	0.0182	0.0200	0.0170	0.0134	1.63

ANT 1 + ANT 2 + ANT 3:

E-Field Strength at 20 cm from the edges surrounding the EUT (V/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (V/m)
V/m	0.4131	0.5484	0.5915	0.5800	0.4884	614

H-Field Strength at 20 cm from the edges surrounding the EUT (A/m)

XT	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)	
42.2	A/m	0.0135	0.0183	0.0192	0.0192	0.0154	1.63	. Net

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Remark: According KDB 680106 D01 Wireless Power Transfer v04, section 5.2). The aggregate H-field strengths at 20 cm surrounding the device from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. The E- field evaluation conducted assuming a user separation distance of 20 cm according to the KDB 680106 D01 Wireless Power Transfer v04, section 5.2).

Result: The device comply with the RF exposure requirement according to 680106 D01 v04, section 5.2):

(1) The power transfer frequency is below 1MHz.

- The device operate in the frequency range for 112KHz~ 205KHz

(2) The output power from each transmitting element (e .g., coil) is less than or equal to 15 watts. - The maximum output power of ANT1 is 15W

- The maximum output power of ANT2 is 5W

- The maximum output power of ANT3 is 5W

3) A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

-The EUT is placed directly in contact with the transmitter

(4) Only 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover 2.093-porable exposure conditions).

- Yes, mobile device only.

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(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

- The EUT meet the conditions.

(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

- The transfer system including a charging system with three primary coils, the coil pairs can be powered on at the same time.

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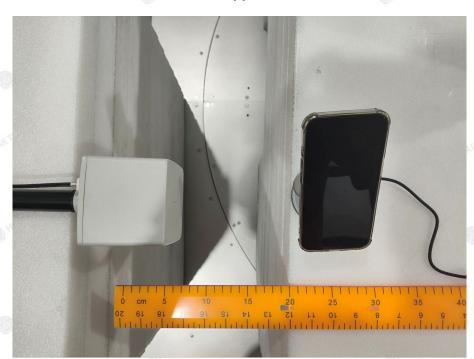
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Photographs of Test

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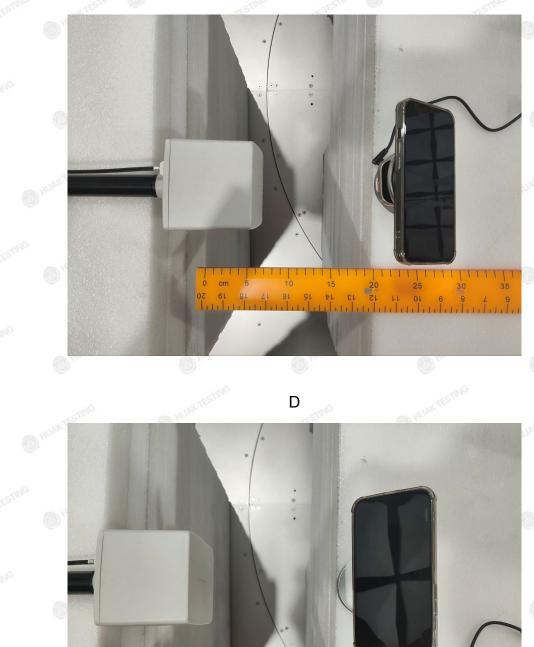
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