

FCC TEST REPORT

Test report
On Behalf of
Shenzhen Xiangdangwen Technology Co.,Ltd.
For
POWER BANK
Model No.: 2E413
FCC ID: 2AW73-2E413

Prepared For: Shenzhen Xiangdangwen Technology Co.,Ltd.

106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang

Street, Longhua District, Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: Jun. 20, 2023 ~ Jun. 27, 2023

Date of Report: Jun. 27, 2023

Report Number: HK2306202579-2E



TEST RESULT CERTIFICATION

Applicant's name:	Shenzhen	Xiangdangwen	Technology	Co.,Ltd
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106, 1/F, No.313-4 Building, Huachang Road, Langkou

Community, Dalang Street, Longhua District, Shenzhen, China

Report No.: HK2306202579-2E

Manufacture's Name: Shenzhen Xiangdangwen Technology Co.,Ltd.

106. 1/F. No.313-4 Building, Huachang Road, Langkou

Community, Dalang Street, Longhua District, Shenzhen, China

Product description

LISEN, AINOPE, VEICO Trade Mark:

Product name POWER BANK

Model and/or type reference : 2E413

Standards.....: FCC CFR 47 PART 18, KDB680106 D01

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Date of Test

Date (s) of performance of tests....:: Jun. 20, 2023 ~ Jun. 27, 2023

Date of Issue: Jun. 27, 2023

Test Result **Pass**

Testing Engineer

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)



Note:

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

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HUAK !		HUAKIL	nel List	HUP HUP	TK 18		
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	314	MAKTE		TING	- WAKTE		TING
MAKTEN			WAKTE		(iii)	2. 0	JAKTES
			(D)			(3)	
		STING			ESTING		

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 KDB680106 D01 RF Exposure Wireless Charging Apps v03r01

	- 1/71	4711		4114
		FCC CFR 47		
Standard Section		Test Item	Judgment	Remark
FCC CFR 47 part1,	Electric Fig	eld Strength (E) (V/m)	PASS	Must restile
1.1310 KDB680106 - D01v03r01 (3)(3)	Magnetic F	ield Strength (H) (A/m)	PASS	LAYTESTINE

2.2. Measurement Uncertainty

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

AKTEO	No.	Item was to	Uncertainty			
	1	All emissions, radiated(<30M)(9KHz-30MHz)	±3.90dB			
STING	2	Temperature	±0.5°C			
	3 HUAN	Humidity	±2%			

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2.3. Operation of EUT during testing

The equipment under test(EUT) was configured to measure its highest possible emission level. The test modes were adapted according to the operation manual for use, more detailed description as follows:

Test Mode	Description	V TESTING	Remark
DC mode:	Wireless Charging Output: 2.5W	MIA.	MILAN MILA
AC mode:	Wireless Charging Output: 2.5W		Connect to the adapter

Note: All modes are tested, and the report shows only the worst mode data.

2.4. Test Instruments

	Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
UN	Exposure Level Tester	narda	ELT-400	N-0231	Feb. 17, 2023	Feb. 16, 2024
EST	Magnetic field probe 100cm ²	narda	ELT probe 100cm2	B-0324	Feb. 17, 2023	Feb. 16, 2024

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

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3. MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

	Limits for Occ	cupational / Controlle	ed 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)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500	Ne Whom	TING TSTING	F/300	6
1500-100,000	HU	HUAR	5 HUAKT	6
	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
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500	TESTING		F/1500	30
1500-100,000	UG HUAN	DIAM. DIA	HUAK 1	30

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

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03r01.

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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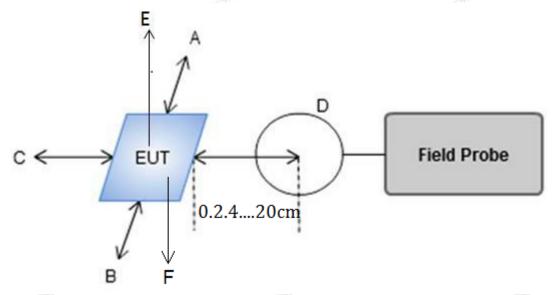


4. TEST PROCEDURE

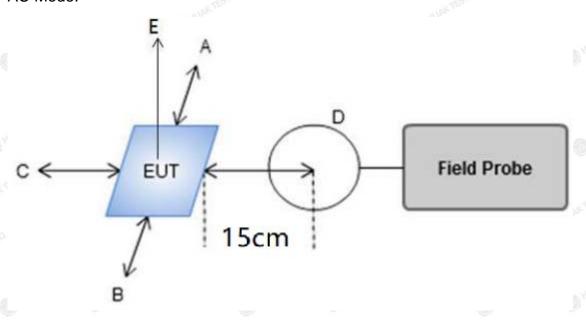
a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance 0-20cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 0-20 cm measured from the center of the probe(s) to the edge of the device.

4.1 Test Setup

DC Mode:



AC Mode:



4.2 Result of Maximum Permissible Exposure

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DC Mode:

For Full load mode:

H-Field Strength at 0-20 cm from the edges surrounding the EUT (A/m)

H-Fleid Stre	ength at U-	20 cm from	the edges	<u>surrounain</u>	g the EUI	(A/m)		
Measuring distance (cm)	Field strength	Test Position A	Test Position B	Test Position C	Test Positio n D	Test Position E	Test Position F	Limits (A/m)
(CIII)	uT	1.516	1.448	1.535	1.490	1.548	1.520	/
0	A/m	1.213	1.158	1.228	1.192	1.239	1.216	1.63
ESTAILS	uT	1.365	1.360	1.435	1.428	1.378	1.348	/
2	A/m	1.092	1.088	1.148	1.142	1.103	1.079	1.63
1 0 ***	uT	1.284	1.295	1.221	1.273	1.309	1.310	/
4	A/m	1.027	1.036	0.977	1.019	1.047	1.048	1.63
6 MG	uTmg	1.130	1.177	1.209	1.198	1.222	1.140	CING IN
TAK TEO III	A/m	0.904	0.941	0.967	0.959	0.978	0.912	1.63
8	υT	1.121	1.121	1.131	1.050	1.123	1.116	/
0	A/m	0.897	0.896	0.904	0.840	0.898	0.893	1.63
10	uT	1.009	0.968	0.946	1.055	1.016	1.064	1
-K TESTINO	A/m	0.807	0.774	0.757	0.844	0.813	0.851	1.63
12	u T	0.843	0.898	0.847	0.846	0.833	0.860	/
12	A/m	0.674	0.718	0.677	0.677	0.666	0.688	1.63
14	uΤ	0.739	0.767	0.783	0.773	0.809	0.732	/
14	A/m	0.591	0.614	0.626	0.618	0.648	0.585	1.63
16	uT	0.693	0.752	0.687	0.695	0.683	0.695	/
10	A/m	0.555	0.602	0.550	0.556	0.547	0.556	1.63
18	uT	0.587	0.620	0.650	0.553	0.657	0.554	NG / SIN
NAK TESTING	A/m	0.470	0.496	0.520	0.442	0.526	0.443	1.63
20	uT	0.408	0.400	0.454	0.464	0.381	0.410	/
20	A/m	0.326	0.320	0.364	0.372	0.305	0.328	1.63

Note.

Calculation: A/m=uT/1.25

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For Half Load mode:

H-Field Strength at 0-20 cm from the edges surrounding the EUT (A/m)

	easuring istance (cm)	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Test Position F	Limits (A/m)
		uΤ	1.473	1.535	1.528	1.441	1.535	1.471	/
10	0	A/m	1.178	1.228	1.222	1.153	1.228	1.177	1.63
	O VIE	uT	1.411	1.381	1.362	1.337	1.348	1.356	/
	2 HUAKTE	A/m	1.129	1.105	1.090	1.069	1.078	1.085	1.63
	4	uΤ	1.290	1.235	1.255	1.309	1.307	1.228	/
	4	A/m	1.032	0.988	1.004	1.047	1.046	0.982	1.63
TE	STING	w TESUT	1.145	1.159	1.136	1.122	1.183	1.144	1
JAK.	6	A/m	0.916	0.927	0.909	0.897	0.946	0.915	1.63
	0	uT	1.073	1.126	1.009	1.092	1.058	1.011	/
	8	A/m	0.858	0.901	0.808	0.874	0.846	0.809	1.63
STIN	10	uT [©]	0.996	0.994	0.949	0.961	1.018	0.982	STING
PEO	10	A/m	0.797	0.795	0.759	0.769	0.815	0.786	1.63
	40	uΤ	0.896	0.906	0.850	0.830	0.853	0.840	/
(G	12	A/m	0.717	0.725	0.680	0.664	0.683	0.672	1.63
	4.4	TING uT	0.825	0.729	0.812	0.719	0.745	0.774	/
	14 HUAKTE	A/m	0.660	0.583	0.650	0.575	0.596	0.619	1.63
	10	uΤ	0.769	0.764	0.747	0.724	0.742	0.742	/
	16	A/m	0.615	0.611	0.598	0.580	0.593	0.594	1.63
	sTING	"suT 🔘	0.601	0.556	0.581	0.580	0.564	0.632	Wie 10
JAK TE	18	A/m	0.481	0.445	0.465	0.464	0.451	0.506	1.63
	20	uΤ	0.401	0.491	0.432	0.392	0.465	0.409	/
	20	A/m	0.321	0.393	0.346	0.313	0.372	0.327	1.63

Note.

Calculation: A/m=uT/1.25

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For No load mode:

H-Field Strength at 0-20 cm from the edges surrounding the EUT (A/m)

Measuring		Test	Test	Test	Test	Test	Test	1.116
distance	Field	Position	Position	Position	Position	Position	Position	Limits
(cm)	strength	Α	B	Crestin	D	· KIETING	F	(A/m)
0	uT	1.548	1.500	1.490	1.451	1.494	1.458	/
0	A/m	1.238	1.200	1.192	1.161	1.195	1.166	1.63
2	uΤ	1.411	1.374	1.431	1.442	1.331	1.336	/
2	A/m	1.129	1.099	1.144	1.154	1.065	1.069	1.63
4	uT	1.230	1.233	1.258	1.320	1.286	1.310	/
4	A/m	0.984	0.987	1.006	1.056	1.029	1.048	1.63
6	uT	1.204	1.140	1.172	1.119	1.119	1.164	100
TESTIN 6	A/m	0.963	0.912	0.937	0.895	0.896	0.931	1.63
8	uT	1.047	1.081	1.033	1.081	1.098	1.055	/
0	A/m	0.837	0.865	0.827	0.865	0.878	0.844	1.63
10	uT	0.988	0.974	0.987	1.040	1.003	1.002	/
10	A/m	0.791	0.779	0.790	0.832	0.803	0.801	1.63
10	NAKTUT	0.929	0.914	0.823	0.838	0.856	0.910	/
12	A/m	0.743	0.731	0.659	0.670	0.685	0.728	1.63
G 4.4	uT	0.830	0.784	0.724	0.733	0.793	0.833	/
14	A/m	0.664	0.627	0.579	0.586	0.634	0.666	1.63
10 HUAK	uT	0.676	0.768	0.743	0.650	0.683	0.661	/
16	A/m	0.541	0.615	0.595	0.520	0.546	0.529	1.63
40	uT	0.554	0.591	0.616	0.653	0.659	0.552	/
18	A/m	0.443	0.473	0.493	0.523	0.527	0.442	1.63
JAK TE 20 MIN	uΤ	0.373	0.434	0.416	0.406	0.447	0.375	/
20	A/m	0.298	0.347	0.333	0.325	0.358	0.300	1.63

Note.

Calculation: A/m=uT/1.25

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AC Mode:

All the test modes completed for test. Only the worst result (2.5W) as below.

For Full load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

			10.37		J	
Field	Test	Test	Test	Test	Test	Limits
	Position	Position	Position	Position	Position	
strength	A A	BAKTEST	С	D	E OKTE	(A/m)
uT	0.672	0.694	0.725	0.777	0.808	1
A/m	0.538	0.555	0.580	0.622	0.646	1.63

Note.

Calculation: A/m=uT/1.25

For Half Load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
uT	0.715	0.741	0.772	0.825	0.726	1
A/m	0.572	0.593	0.618	0.660	0.581	1.63

Note.

Calculation: A/m=uT/1.25

For No load mode:

H-Field Strength at 15 cm (E top side: 20cm) from the edges surrounding the EUT (A/m)

Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
uT	0.826	0.709	0.758	0.723	0.755	1 mg
A/m	0.661	0.567	0.606	0.578	0.604	1.63

Note.

Calculation: A/m=uT/1.25

Remark: According KDB 680106 D01 RF Exposure Wireless Charging App v03r01, section 5, b). 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. The E- field evaluation conducted assuming a user separation distance of 15 cm according to the KDB 680106 D01 RF Exposure Wireless Charging App v03r01 section 3, c).

Result: The device comply with the RF exposure requirement according to 680106 D01 v03r01, section 5, b):

- (1) Power transfer frequency is less than 1 MHz.
- -The device operate in the frequency range for 314KHz
- (2) Output power from each primary coil is less than or equal to 15 watts.
 - -The maximum output power of the primary coil is 2.5W.
- (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
 - -The transfer system including a charging system with only single primary coils is to detect and allow only
- (4) Client device is placed directly in contact with the transmitter
 - -The EUT is placed directly in contact with the transmitter
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
 - This is a portable device
- (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.
 - The EUT meet the conditions.





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PHOTOGRAPH OF TEST

Report No.: HK2306202579-2E

DC Mode:

A



В





C



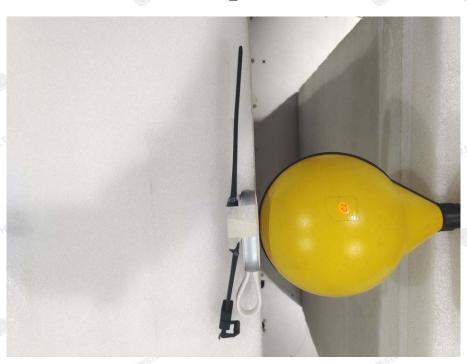
D





H

E



F



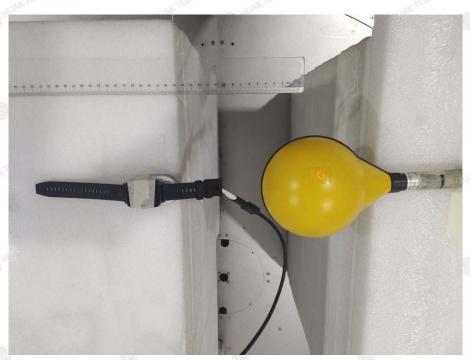
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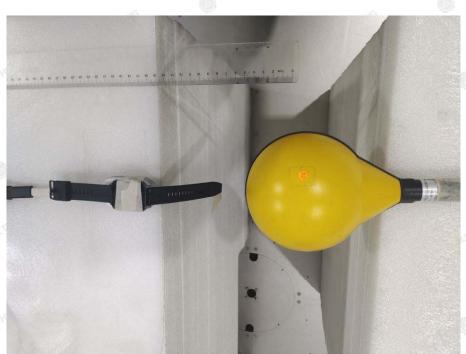
AC Mode:

Α

Report No.: HK2306202579-2E



B



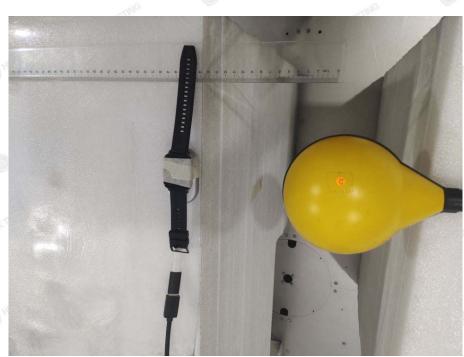


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Report No.: HK2306202579-2E



D

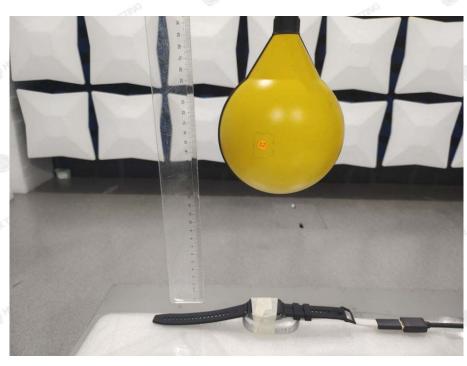




E



F



******THE END****