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FCC TEST REPORT

Test report On Behalf of Shenzhen Xiangdangwen Technology Co.,Ltd. For Lisen 3-in-1 Wireless Charging Mobile Power Bank (10000mAh) with Cable Model No.: 2E47 FCC ID: 2AW73-2E47

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. 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

 Date of Test:
 May. 15, 2022 ~ May. 22, 2023

 Date of Report:
 May. 22, 2023

 Report Number:
 HK2305151899-2E

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Report No.: HK2305151899-2E

FIF

TEST RESULT CERTIFICATION

Applicant's name	Shenzhen Xiangdangwen Technology Co.,Ltd.
Applicant s name	Shenzhen Alanguangwen Technology Co., Llu.
Address:	106, 1/F, No.313-4 Building, Huachang Road, Langkou Community, Dalang Street, Longhua District, Shenzhen, China
Manufacture's Name	Huizhou Yimai Electronics Technology Co., Ltd.
Address	3rd Floor, Building B, Huakai High-tech Industrial Park, Electronic City Road, Longxi Street, Boluo Country, China
Production plant Name:	Shenzhen Junkaida Intelligent Technology Co.ltd.
Address:	3F,Block A,Junda industrial park,Fuyuan 2RD,Heping,Fuyong Town,Baoan district,Shenzhen,China
Product description	
Trade Mark:	LISEN, AINOPE, VEICO
Product name:	Lisen 3-in-1 Wireless Charging Mobile Power Bank (10000mAh) with Cable
Model and/or type reference :	2E47
Standards	FCC CFR 47 PART 18, KDB680106 D01

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Date of Test	
Date (s) of performance of tests::	May. 15, 2022 ~ May. 22, 2023
Date of Issue	May. 22, 2023
Test Result	Pass

Testing Engineer

(Gary Qian)

Technical Manager

HW

(Eden Hu)

Authorized Signatory:

(Jason Zhou)

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Note:

2.

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

			Chan	nel List			
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	129	UNAKTE		MNG	- WAKTE		TING
WAKTER	0		WAKTE				JAK TES
						0	c
		STING			STING		

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

TIND	n n lar	TING	- MACH	MNG
		FCC CFR 47		
Standard Section		Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03r01 (3)(3)	Electric Fie	ld Strength (E) (V/m)	PASS	HUAK TESTING
	Magnetic Fi	eld Strength (H) (A/m)	PASS	LAKTESTING

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 %.

JAK TESTI	No.	Item	Uncertainty
	1	All emissions, radiated(<30M)(9KHz-30MHz)	±3.90dB
ESTING	2	Temperature	±0.5°C
	3	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	TESTING	Remark	TE
	iPhone Wireless Output: 15W or 1	0W or 7.5W or 5W		
	iWatch Wireless Output: 2.5W			
DC mode:	iPhone OUT Wireless: 15W/10W/	7.5W/5W+ iWatch		
(6)	Wireless Output 2.5W	HUAK	0	HUAK

INK TESTING	Type-C Input+iPhone Wireless Output: 15W or 10W or 7.5W or 5W	C- WARTESTING
AC mode:	Type-C Input+iWatch Wireless Output: 2.5W	Connect to the adapter
	Type-C Input+iPhone OUT Wireless:	
STING	15W/10W/7.5W/5W+ iWatch Wireless Output 2.5W	SING

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
Exposure Level Tester	narda	ELT-400	N-0231	Feb. 17, 2023	Feb. 16, 2024
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	upational / Controlle	ed Exposure	
Frequency Range (MHz)	AlHz) Strength (E) (V/m) Strength (H) (A/m) 3-3.0 614 1.63 0-30 1842 / f 4.89 / f 1-300 61.4 0.163 1-300 61.4 0.163 1-1500 Imits for General Population / Uncontroll 100,000 Imits for General Population / Uncontroll ncy Range Electric Field Magnetic Field NHz) Electric Field Magnetic Field or 1.34 614 1.63 34-30 824/f 2.19/f -300 27.5 0.073 -1500 Image: Strength (E) Strength (E)	Power Density (S) (mW/ cm ²)	Averaging Time E ², H ² or S (minutes)	
0.3-3.0	614	1.63	(100)*	6,500
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500	NG OHUM	TING	F/300	-m ^G 6 -5m ^G
1500-100,000	HU!	HUAK	5 HUAKT	6
	Limits for General	Population / Uncon	trolled Exposure	
Frequency Range (MHz)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	log V	Power Density (S) (mW/ cm ²)	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	NG HUAN	all mark	HUAN 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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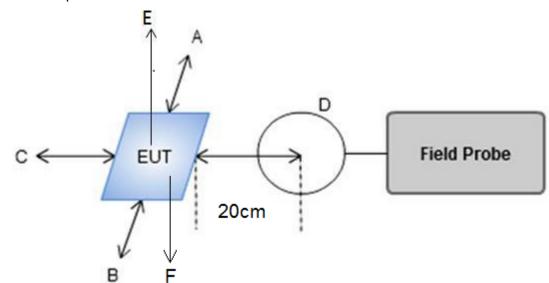


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4. TEST PROCEDURE

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



4.2 Result of Maximum Permissible Exposure

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DC Mode:

For Full load mode:

H-Field Stre	ength at 0-2	20 cm from	the edges	surrounding	g the EUT	(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)
0	uT	0.988	0.913	0.879	0.888	0.843	0.739	/
0 Star	A/m	0.790	0.730	0.703	0.710	0.674	0.591	1.63
2	uT	0.987	0.874	0.865	0.903	0.877	0.803	/
2	A/m	0.790	0.699	0.692	0.722	0.702	0.642	1.63
4	uT	0.865	0.792	0.921	0.933	0.877	0.869	/
4	A/m	0.692	0.634	0.737	0.746	0.702	0.695	1.63
6 10	uT	0.999	0.911	0.932	0.832	0.855	0.891	me In
0	A/m	0.799	0.729	0.746	0.666	0.684	0.713	1.63
0	uT	0.966	0.879	0.955	0.769	0.822	0.835	/
8	A/m	0.773	0.703	0.764	0.615	0.658	0.668	1.63
10	uT	0.991	0.768	0.806	0.748	0.804	0.878	_/
AV TESTITO	A/m	0.793	0.614	0.645	0.598	0.643	0.702	1.63
10	uT	0.851	0.870	0.807	0.736	0.794	0.735	/
12	A/m	0.681	0.696	0.646	0.589	0.635	0.588	1.63
1.1	uT	0.757	0.738	0.745	0.734	0.783	0.798	/
14	A/m	0.606	0.590	0.596	0.587	0.626	0.638	1.63
10	uT	0.671	0.656	0.567	0.652	0.692	0.672	/
16	A/m	0.537	0.525	0.454	0.522	° 0.554	0.538	1.63
10	uT	0.557	0.547	0.652	0.582	0.652	0.593	
18	A/m	0.446	0.438	0.522	0.466	0.522	0.474	1.63
20	uT	0.355	0.313	0.338	0.318	0.402	0.289	/
20	A/m	0.284	0.250	0.270	0.254	0.322	0.231	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)

Measuring distance	Field	Test Position	Test Position	Test Position	Test Position	Test Position	Test Position	Limits
(cm)	strength	A	B	C	D	E	F	(A/m)
	uT	0.947	0.984	0.887	0.977	0.956	0.974	/
© 0	A/m	0.758	0.787	0.710	0.782	0.765	0.779	1.63
2	uT	0.962	0.966	0.984	0.888	0.997	0.961	/
2	A/m	0.770	0.773	0.787	0.710	0.798	0.769	1.63
4	uT	0.913	0.925	0.946	0.932	0.945	0.962	/
4	A/m	0.730	0.740	0.757	0.746	0.756	0.770	1.63
TESTING	uT	0.899	0.879	0.867	0.895	0.866	0.874	
6 m	A/m	0.719	0.703	0.694	0.716	0.693	0.699	1.63
0	uT	0.812	0.834	0.831	0.802	0.799	0.798	/
8	A/m	0.650	0.667	0.665	0.642	0.639	0.638	1.63
STING 10	uT	0.855	0.898	0.762	0.798	0.804	0.868	STING
10	A/m	0.684	0.718	0.610	0.638	0.643	0.694	1.63
10	uT	0.801	0.867	0.835	0.811	0.863	0.808	/
م 12	A/m	0.641	0.694	0.668	0.649	0.690	0.646	1.63
14	uT 🦥	0.756	0.706	0.715	0.760	0.731	0.705	/
14	A/m	0.605	0.565	0.572	0.608	0.585	0.564	1.63
16	uT	0.612	0.723	0.715	0.655	0.692	0.703	/
16	A/m	0.490	0.578	0.572	0.524	0.554	0.562	1.63
10	uT 🔘	0.614	0.516	0.548	0.558	0.557	0.569	mo O
18	A/m	0.491	0.413	0.438	0.446	0.446	0.455	1.63
20	uT	0.403	0.366	0.303	0.406	0.397	0.336	/
20	A/m	0.322	0.293	0.242	0.325	0.318	0.269	1.63

Note.

Calculation: A/m=uT/1.25

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NG

For No load mode:

Measuring	Field	Test	Test	Test	Test	Test	Test	Limits
distance		Position	Position	Position	Position	Position	Position	(A/m)
(cm)	strength	A	B	Crestin	D	Em	F	(AVIII)
0	uT ^{۳۷}	0.909	0.916	0.925	0.936	0.947	0.955	/
0	A/m	0.727	0.733	0.740	0.749	0.758	0.764	1.63
2	uT	0.954	0.945	0.906	0.864	0.866	0.902	/
Z	A/m	0.763	0.756	0.725	0.691	0.693	0.722	1.63
4	uT	0.899	0.847	0.902	0.866	0.815	0.837	/
4	A/m	0.719	0.678	0.722	0.693	0.652	0.670	1.63
6	uT	0.822	0.863	0.874	0.815	0.877	0.888	1
6	A/m	0.658	0.690	0.699	0.652	0.702	0.710	1.63
8	uT	0.812	0.798	0.832	0.777	0.796	0.762	/
0	A/m	0.650	0.638	0.666	0.622	0.637	0.610	1.63
10	uT	0.798	0.777	0.765	0.716	0.723	0.784	/
STING TO	A/m	0.638	0.622	0.612	0.573	0.578	0.627	/ 1.63
12	UN UT	0.745	0.732	0.699	0.684	0.612	0.702	1
12 🔘	A/m	0.596	0.586	0.559	0.547	0.490	0.562	1.63
11	uT	0.698	0.655	0.602	0.588	0.574	0.602	/
14	A/m	0.558	0.524	0.482	0.470	0.459	0.482	1.63
10 HUAK	uT	0.512	5.66	0.523	0.503	0.499	0.467	/
16	A/m	0.410	4.528	0.418	0.402	0.399	0.374	1.63
10	uT	0.468	0.437	0.388	0.366	0.354	0.312	/
18	A/m	0.374	0.350	0.310	0.293	0.283	0.250	1.63
20	uT	0.333	0.298	0.301	0.288	0.265	0.274	/
20	A/m	0.266	0.238	0.241	0.230	0.212	0.219	1.63

Note.

Calculation: A/m=uT/1.25

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AC Mode:

All test modes are tested, and the report shows only the worst mode: ANT1+ANT2

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

yst.	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)	8
	uT	0.635	0.508	0.715	0.795	0.803	1	- 83
570	A/m	0.508	0.406	0.572	0.636	0.642	1.63	1st

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	0.453	0.422	0.466	0.388	0.367	/
A/m	0.362	0.338	0.373	0.310	0.294	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)

KTE	Field strength	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits (A/m)
(1)	uT	0.255	0.236	0.168	0.202	0.109	/
	A/m	0.204	0.189	0.134	0.162	0.087	1.63

Note.

Calculation: A/m=uT/1.25

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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 112KHz~205KHz

- (2) Output power from each primary coil is less than or equal to 15 watts.
 - The maximum output power of ANT1 is 15W
 - The maximum output power of ANT2 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 two primary coils, the coil pairs can be powered on at the same time.

- (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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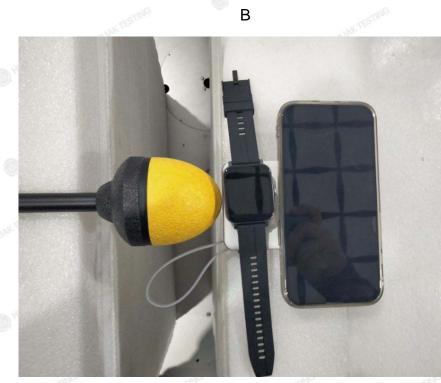
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DC Mode:



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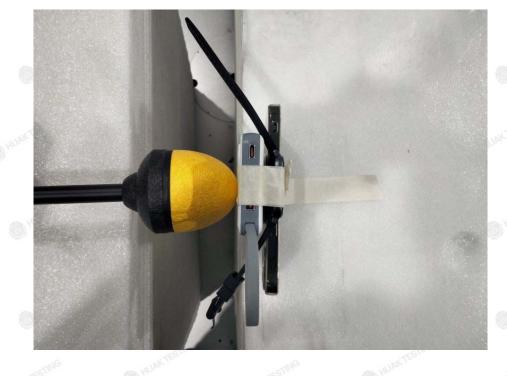
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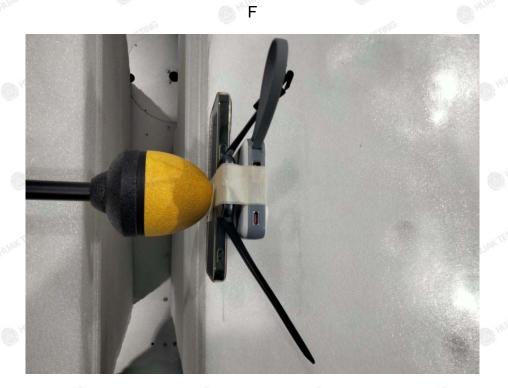
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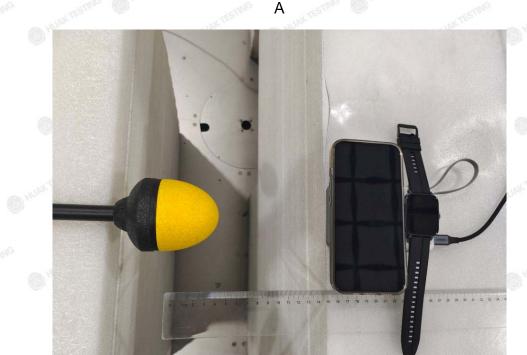


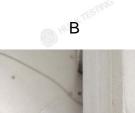
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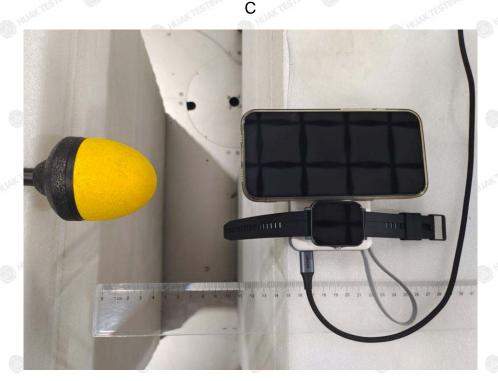


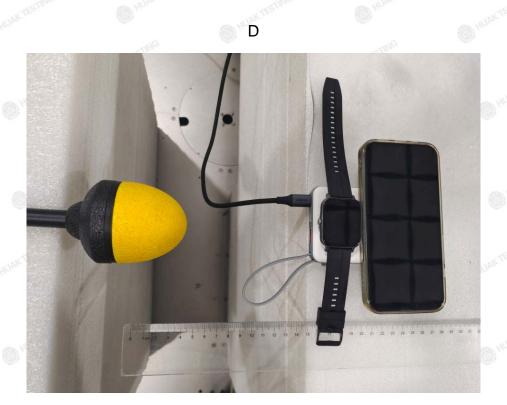
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CR. PAL





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