



FCC TEST REPORT

Test report
On Behalf of
Shenzhen Xiangdangwen Technology Co.,Ltd.
For
2-in-1 Mag-Safe Wireless Charger Stand
Model No.: H513

FCC ID: 2AW73-H513

Prepared For: Shenzhen Xiangdangwen Technology Co.,Ltd.

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Date of Test: Aug. 30, 2021 ~Sept. 15, 2021

Date of Report: Sept. 15, 2021

Report Number: HK2108303187-2E

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Note:

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

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2.

· KT	ESTING	TESTING	W TESTING				
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	125	STING			-6	W _G	
CTING		MAKTE		m^G	THE WORK PE		-TING
MAKTES			MAKTE				JAKTES
			(a)			(iii)	

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 App v03r01

	FCC CFR 47									
Standard Section	Test Item	Judgment	Remark							
FCC CFR 47 part1, 1.1310 KDB680106	Electric Field Strength (E) (V/m)	PASS	HARTESTING							
D01 v03r01	Magnetic Field Strength (H) (A/m)	PASS	TING							

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 %.

No. No.	Item Item	Uncertainty
7	All emissions, radiated(<30M)(9KHz-30MHz)	±3.90dB
2	Temperature	±0.5°C
3 HURK TEST	Humidity Humidity	±2%

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2.3. Test Instruments

Description	ription Brand		Frequency Range	Calibrated Date	Calibrated Until
Broadband Field Meter	NARDA	NBM-550	WAR TESTING	Dec. 10, 2020	Dec. 09, 2021
Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	Dec. 10, 2020	Dec. 09, 2021
Magnetic Probe	netic Probe NARDA HF-3061 300kHz – 30N		300kHz – 30MHz	Dec. 10, 2020	Dec. 09, 2021
Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	Dec. 10, 2020	Dec. 09, 2021
Broadband Field Meter	NARDA	NBM-550	MUAN TESTING	Dec. 10, 2020	Dec. 09, 2021
Electric Field Meter	COMBINOVA	EFM 200	5Hz – 400kHz	Dec. 10, 2020	Dec. 09, 2021
E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	Dec. 10, 2020	Dec. 09, 2021
E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	Dec. 10, 2020	Dec. 09, 2021
Isotropic Electric Field Probe	NARDA	EP-601	511WX60706	Dec. 10, 2020	Dec. 09, 2021

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 Oc	cupational / Controll	ed Exposure		
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field	Power Density (S)	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	NG HONE	TING	F/300	6	
1500-100,000	HU	K. LEGO.	5 HILLAK TY	6	
	Limits for Genera	al Population / Unco	ntrolled 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	NG HUAR	Oly Dia	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 App 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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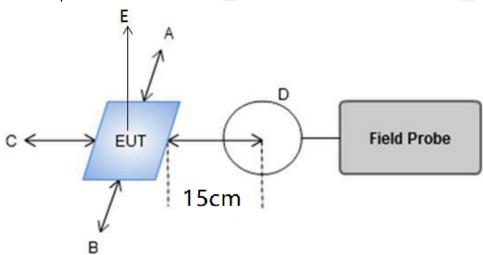


4. TEST PROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of (H-field & E- field strengths for all sides is 15cm, H-field strengths of top side 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 15 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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For Full load mode:

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

Frequency	Test	Test	Test	Test	Test	Limits
Range	Position	Position	Position	Position	Position	Test
(MHz)	A	B	C	D	E	(V/m)
0.125	1.76	1.58	1.31	1.61	1.52	614

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

Frequency	Test	Test	Test	Test	Test	Limits
Range	Position	Position	Position	Position	Position	Test
(MHz)	A	B	C	D	E	(A/m)
0.125	0.25	0.19	0.13	0.23	0.18	1.63

For Half Load mode:

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

E E	Frequency	Test	Test	Test	Test	Test	Limits
	Range	Position	Position	Position	Position	Position	Test
	(MHz)	A	B	C	D	E	(V/m)
	0.125	1.74	1.57	1.61	1.26	1.49	614

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

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Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)	
0.125	0.25	0.16	0.23	0.17	0.12	1.63	

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For No load mode:

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

Frequency	Test	Test	Test	Test	Test	Limits
Range	Position	Position	Position	Position	Position	Test
(MHz)	A	B	C	D	E	(V/m)
0.125	1.69	1.58	1.54	1.19	1.43	

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

Frequency	Test	Test	Test	Test	Test	Limits
Range	Position	Position	Position	Position	Position	Test
(MHz)	A	B	C	D	E	(A/m)
0.125	0.28	0.21	0.19	0.11	0.14	1.63

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) The operating frequency is 125 kHz, is less than 1MHz.
- (2) The max Output power for each primary coil is 2.5W/5W/7.5/W/10W/15W, $\leq 15W$.
- (3) The system consists of two source primary coils to charge two clients. The two primary coils support simultaneous energization.
- (4) Client device is placed directly in contact with the transmitter.
- (5) 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 MPF limit.
- (6) This device is used for mobile exposure conduction only.

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PHOTOGRAPH OF TEST



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

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