



# FCC TEST REPORT

**Test report**

**On Behalf of**

**SHENZHEN HAOYISHI TECHNOLOGY CO., LIMITED**

**For**

**Wireless charger**

**Model No.: PVC wireless charger**

**FCC ID: 2A2LY-PVC**

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**Date of Test:** Aug. 03, 2021 ~ Aug. 11, 2021

**Date of Report:** Aug. 11, 2021

**Report Number:** HK2108042701-2E



Note:

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

2.

Channel List							
Channel	Frequency (KHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	125						

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 v03

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03 (3)(3)	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

### 2.2. Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U$ , where expanded 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.	Item	Uncertainty
1	All emissions, radiated(<30M)(9KHz-30MHz)	$\pm 3.90\text{dB}$
2	Temperature	$\pm 0.5^\circ\text{C}$
3	Humidity	$\pm 2\%$

**2.3. Test Instruments**

Description	Brand	Model No.	Frequency Range	Calibrated Date	Calibrated Until
Broadband Field Meter	NARDA	NBM-550	-	Dec. 10, 2020	Dec. 09, 2021
Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	Dec. 10, 2020	Dec. 09, 2021
Magnetic Probe	NARDA	HF-3061	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	-	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 .



### 3. MAXIMUM PERMISSIBLE EXPOSURE

#### Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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			F/300	6
1500-100,000			5	6
Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> 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			F/1500	30
1500-100,000			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 v03.

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.

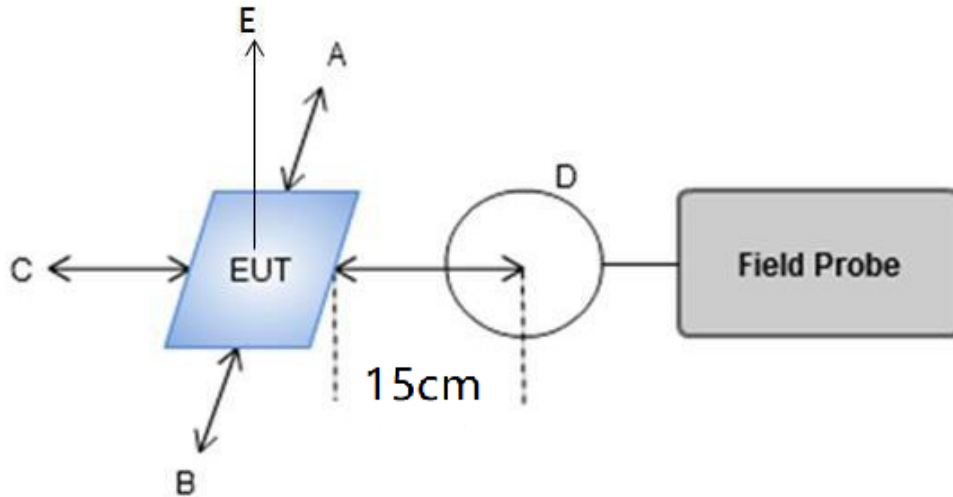


#### 4. TEST PROCEDURE

a. For devices designed for typical desktop applications, such as 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 15cm).

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





For Full load mode:

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

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (V/m)
0.125	1.61	1.57	1.30	1.71	1.46	614

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

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)
0.125	0.17	0.29	0.25	0.36	0.13	1.63

For Half Load mode:

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

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (V/m)
0.125	1.69	1.54	1.72	1.63	1.67	614

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

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)
0.125	0.15	0.23	0.28	0.16	0.14	1.63



For No load mode:

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

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (V/m)
0.125	1.43	1.52	1.67	1.12	1.60	614

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

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limits Test (A/m)
0.125	0.30	0.17	0.24	0.16	0.26	1.63

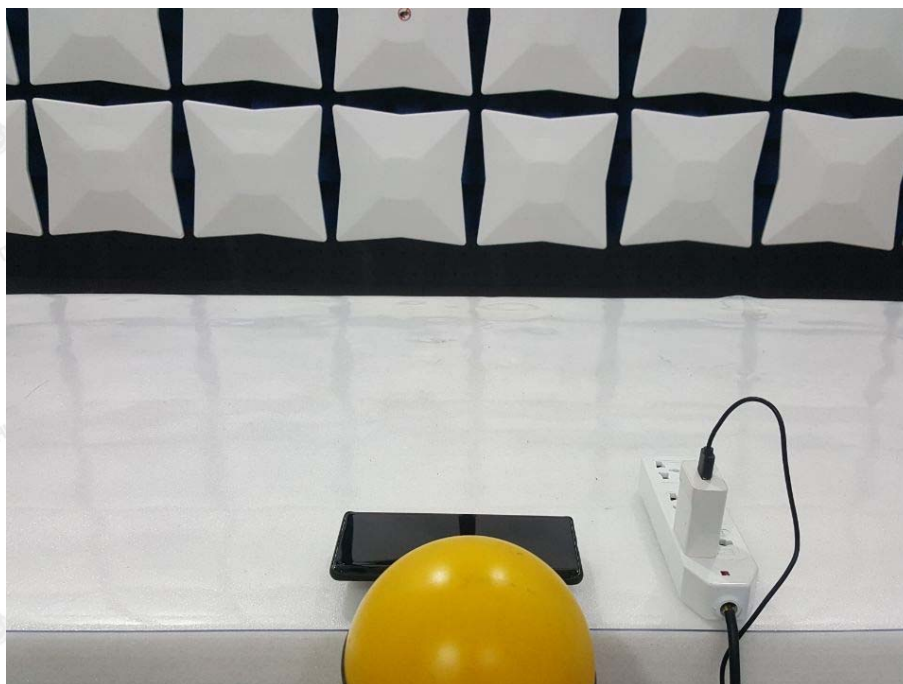
Remark: According KDB 680106 D01 RF Exposure Wireless Charging App v03, section 5, b). The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. The E- field evaluation conducted assuming a user separation distance of 15 cm according to the KDB 680106 D01 RF Exposure Wireless Charging App v03 section 3, c).

Result: The device comply with the RF exposure requirement according to 680106 D01 v03, section 5, b):

- (1) The operating frequency is 125 kHz, is less than 1MHz.
- (2) The max Output power for each primary coil is 15W,  $\leq 15W$ .
- (3) The transfer system includes only single primary and secondary coils.
- (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 MPE limit.
- (6) This device is used for mobile exposure conduction only.



## PHOTOGRAPH OF TEST



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