



FCC TEST REPORT

Test report
On Behalf of
Shenzhen Libro Technology Co., Ltd.
For
Battery-operated Automatic Pet Water Fountain
Model No.: PLWF115
FCC ID: 2A3DE-PLWF115S

Prepared for : Shenzhen Libro Technology Co., Ltd.
12/F,TowerB,GALAXY WORLD,Yabao Road,Longgang District,Shenzhen,China

Prepared By : Shenzhen Tongzhou Testing Co.,Ltd
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Date of Test: Aug. 10, 2023 ~ Aug. 18, 2023

Date of Report: Aug. 21, 2023

Report Number: TZ230804700-E2

The test report apply only to the specific sample(s) tested under stated test conditions
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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Libro Technology Co., Ltd.
Address : 12/F,TowerB,GALAXY WORLD,Yabao Road,Longgang
District,Shenzhen,China
Manufacture's Name..... : Shenzhen Libro Technology Co., Ltd.
Address : 12/F,TowerB,GALAXY WORLD,Yabao Road,Longgang
District,Shenzhen,China
Product description
Trade Mark : PETLIBRO
Product name : Battery-operated Automatic Pet Water Fountain
Model..... : PLWF115
Standards : FCC Rules and Regulations Part 2.1091,
ANSI C63.10: 2013

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Date of Test :
Date (s) of performance of tests : Aug. 10, 2023 ~ Aug. 18, 2023
Date of Issue..... : Aug. 21, 2023
Test Result..... : **Pass**

Testing Engineer :

Nancy Li

(Nancy Li)

Technical Manager :

Hugo Chen

(Hugo Chen)

Authorized Signatory :

Andy Zhang

(Andy Zhang)



1. GENERAL INFORMATION

1.1 General Description of EUT

EUT	: Battery-operated Automatic Pet Water Fountain
Model Number	: PLWF115
Model Declaration	: N/A
Test Model	: PLWF115
Power Rating	: 1,Input: DC 5V/1A;2,DC 3.6V by battery
Hardware version	: TP-01296 REV:1.0
Software version	: V1.0
Sample ID	: TZ230804700-1#

WPT

Frequency Range	: 114 – 205 KHz
Modulation Technology	: ASK
Antenna Type And Gain	: Internal Antenna 0.0dBi
Wireless charging output power	: 1.5 W

Note:

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

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 D01v03r01 (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)	$\pm 2.45\text{dB}$
2	Temperature	$\pm 0.5^{\circ}\text{C}$
3	Humidity	$\pm 2\%$



2.3 Test Instruments

Equipment	Manufacturer	Model	Serial no.	Calibrated date	Calibrated Due
Magnetic Field Tester	Narda	ELT-400	N-0713	Aug. 03, 2023	Aug. 02, 2024
Magnetic field probe 100cm2	Narda	ELT probe 100cm2	M-1154	Aug. 03, 2023	Aug. 02, 2024

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

2.4 Special Accessories

The following peripheral devices and interface cables were connected during the measurement:

- supplied by the manufacturer
- - supplied by the lab

○	Adapter1	Model:	GQ06A-050100-ZUU
		Input:	100-240V~ 50/60Hz 0.3A Max
		Output:	DC 5V,1.0A
○	Adapter2	Model:	TPA-46B050100UU
		Input:	100-240V~ 50/60Hz 0.2A
		Output:	DC 5V,1.0A

Note: pretest with Adapter1 and Adapter2, and record the worst case (with Adapter 2) in this report

2.5 Operation of EUT during testing

The EUT has been tested under operating condition.

Test Modes		
TM1	AC/DC Adapter + EUT with Load (Normal working)	Recorded
TM2	AC/DC Adapter + EUT without Load	Pre-tested
Note: All test modes were pre-tested, but we only recorded the worst case in this report.		



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 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
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 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			F/1500	30
1500-100,000			1	30

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

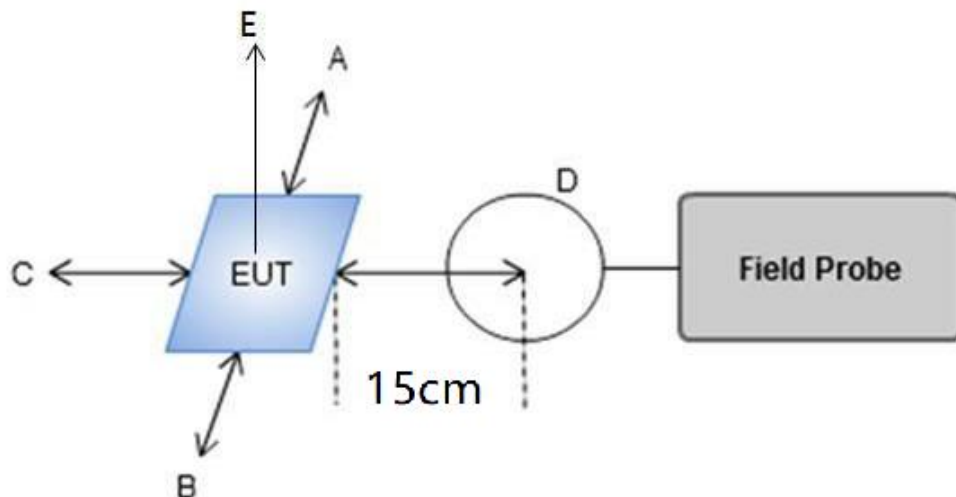
Note 2: For the applicable limit, see FCC 1.1310, D01 RF Exposure Wireless Charging App v03r01

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 1.63 A/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 15 cm. 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

Temperature	22.8°C	Humidity	55%
Test Engineer	Tony Luo	Configurations	Mode 1

E-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

Test Mode	Unit	Frequency Range (MHz)	Measured E-Field Strength Values (V/m)					FCC E-Field Strength 50% Limits (V/m)	FCC E-Field Strength Limits (V/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1	v/m	0.2037	54.9515	55.9166	43.7018	34.4729	141.8425	307	614

Note: V/m= A/m *377

H-Field Strength at 15 cm from the edges surrounding the EUT and 15cm from the top surface of the EUT

Test Mode	Unit	Frequency Range (MHz)	Measured H-Field Strength Values (A/m)					FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position A	Test Position B	Test Position C	Test Position D	Test Position E		
1	uT	0.2037	0.1822	0.1854	0.1449	0.1143	0.4703	--	--
	A/m	0.2037	0.1458	0.1483	0.1159	0.0914	0.3762	0.815	1.63



H-Field Strength at 20cm from the top surface of the EUT

Test Mode	Unit	Frequency Range (MHz)	Measured H-Field Strength Values (A/m)	FCC H-Field Strength 50% Limits (A/m)	FCC H-Field Strength Limits (A/m)
			Test Position E		
1	uT	0.2037	0.6540	--	--
	A/m	0.2037	0.5232	0.815	1.63

Note: A/m=uT/1.25



4.3 Equipment Approval Considerations

The EUT does comply with KDB 680106 D01 as follow table.

Requirements of KDB 680106 D01	Yes / No	Description
Power transfer frequency is less than 1 MHz	Yes	The device operate in the frequency range 114KHz~205KHz
Output power from each primary coil is less than 15 watts	Yes	The maximum output power for each primary coil is 1.5W.
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.	Yes	The transfer system includes one primary coils and are able to detect and allow coupling only between individual pairs of coils.
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes	Mobile exposure conditions only
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.	Yes	The EUT 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.

4.4 Conclusion

The detected emissions with a distance of 15cm surrounding the device and 20 cm above the top surface of the device are below the FCC E-Field Strength & H-Field Strength limits; and comply with the requirements of FCC KDB 680106 D01.

PHOTOGRAPH OF TEST



※※※※THE END※※※※