



FCC TEST REPORT

FCC ID: 2AX73-102

Product	:	Miiibo Drink Mini
Model Name	:	102MB
Brand	:	N/A
Report No.	:	PTC20110505301E-FC02
Prepared for		
Shenzhen Miiibo Innovation Technology Co.,Ltd		
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen,P.R.China		
Prepared by		
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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Miiibo Innovation Technology Co.,Ltd
Address : Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen,P.R.China
Manufacture's name : Shenzhen Miiibo Innovation Technology Co.,Ltd
Address : Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen,P.R.China
Product name : Miiibo Drink Mini
Model name : 102MB
Test procedure : KDB680106 D01 RF Exposure Wireless Charging Apps v03
Test Date : Nov 12, 2020 to Nov 27, 2020
Date of Issue : Nov 27, 2020
Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

A handwritten signature in blue ink that reads "Leo Yang" with a long horizontal stroke extending to the right.

Leo Yang / Engineer

Technical Manager:

A handwritten signature in black ink that appears to read "Chris Du" in a stylized, cursive font.

Chris Du / Manager



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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
Remark:		
N/A: Not Applicable		

2.1 Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	NARDA	ELT-400	N-0713	Aug. 21, 2021	3 Year
2	B-Fied probe	NARDA	ELT-400	M-1154	Aug. 21, 2021	3 Year



3 General Information

3.1 General Description of E.U.T.

Product Name	:	Miiibo Drink Mini
Model Name	:	102MB
Operation Frequency	:	110-205KHz
Type of Modulation	:	ASK
Antenna installation	:	Inductive loop coil Antenna
Antenna Gain	:	0 dBi
Power supply	:	Input: 100-240V~ 50/60Hz, Output: 2W
Hardware Version	:	N/A
Software Version	:	N/A



4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : FCC Part 2.1091

4.1 Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

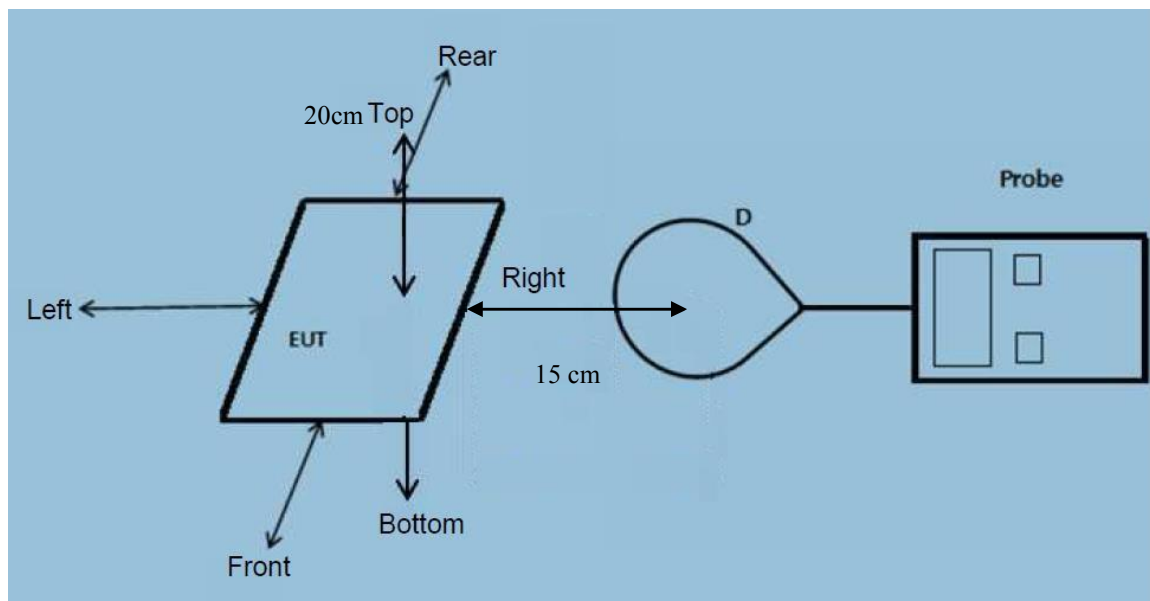
- 1) Power transfer frequency is less than 1 MHz
- 2) Output power from each primary coil is less than or equal to 2 watts.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) 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.

Limits For Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

4.2 Test Setup





Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

4.3 Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center of probe.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed. (A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark;

The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

4.4 Test Result

Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.

- 1) Power transfer frequency is less than 1 MHz
 - The device operate in the frequency range 110~205KHz
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 2W.
- 3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils
 - The transfer system including a charging system with two primary coils is to detect and allow only between individual pairs of coils. Only one coil works at a time.
- 4) Client device is inserted in or placed directly in contact with the transmitter
 - Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 6) 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.
 - Conducted the measurement with the required distance and the test results please refer to the section 2.4.2



Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

Temperature:	23.8°C	Relative Humidity:	54%
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

E-

F-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110~205	0.68	0.26	0.62	0.56	0.55	307	614
50%	110~205	1.23	1.36	1.33	1.25	1.75	307	614
99%	110~205	2.49	2.66	2.42	2.82	2.98	307	614
Stand-by	110~205	0.32	0.85	0.53	0.95	0.87	307	614

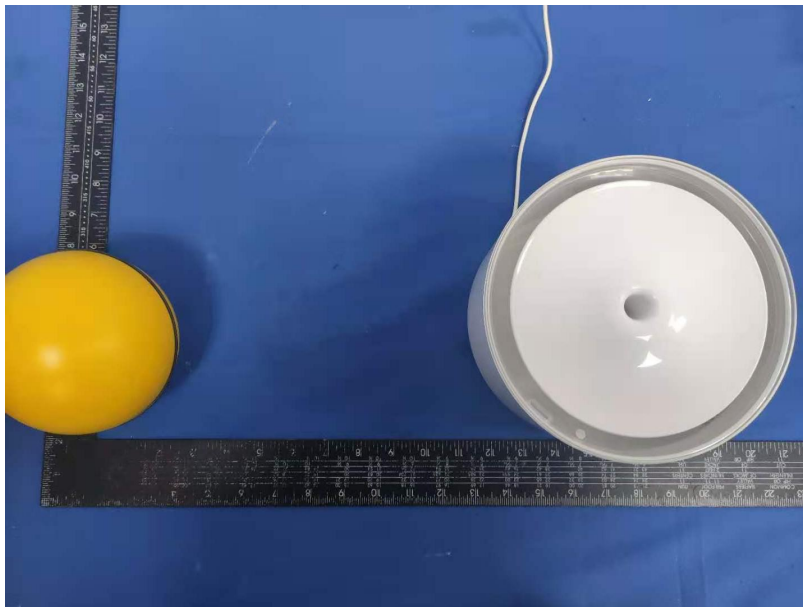


H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
1%	110~205	0.023	0.035	0.038	0.062	0.048	0.815	1.63
50%	110~205	0.12	0.43	0.47	0.48	0.39	0.815	1.63
99%	110~205	0.32	0.35	0.25	0.26	0.49	0.815	1.63
Stand-by	110~205	0.43	0.62	0.38	0.16	0.47	0.815	1.63

Remark: All the conditions have been tested. It is found that 2W is the worst mode, and the data in the report only reflects the worst mode.

5 APPENDIX I -- TEST SETUP PHOTOGRAPH



*****THE END REPORT*****