

TEST REPORT

Report No.: BCTC2504126541-2E

Applicant: Shenzhen Dongfangyun Co.,Ltd

Product Name: Wireless charging mouse pad

Test Model: WM-08B

Tested Date: 2025-04-08 to 2025-04-22

Issued Date: 2025-04-29

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2B034-WM-08B

Product Name: Wireless charging mouse pad
Trademark: EPOT
Model/Type Reference: WM-08B
WM-08S, WM-08M, WM-08F
Prepared For: Shenzhen Dongfangyun Co.,Ltd
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Manufacturer: Shenzhen Dongfangyun Co.,Ltd
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Prepared By: Shenzhen BCTC Testing Co., Ltd.
Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Sample Received Date: 2025-04-07
Sample Tested Date: 2025-04-08 to 2025-04-22
Issue Date: 2025-04-29
Report No.: BCTC2504126541-2E
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310
Test Results: PASS

Tested by:



Eric Yang/Project Handler

Approved by:



Zero Zhou/Reviewer

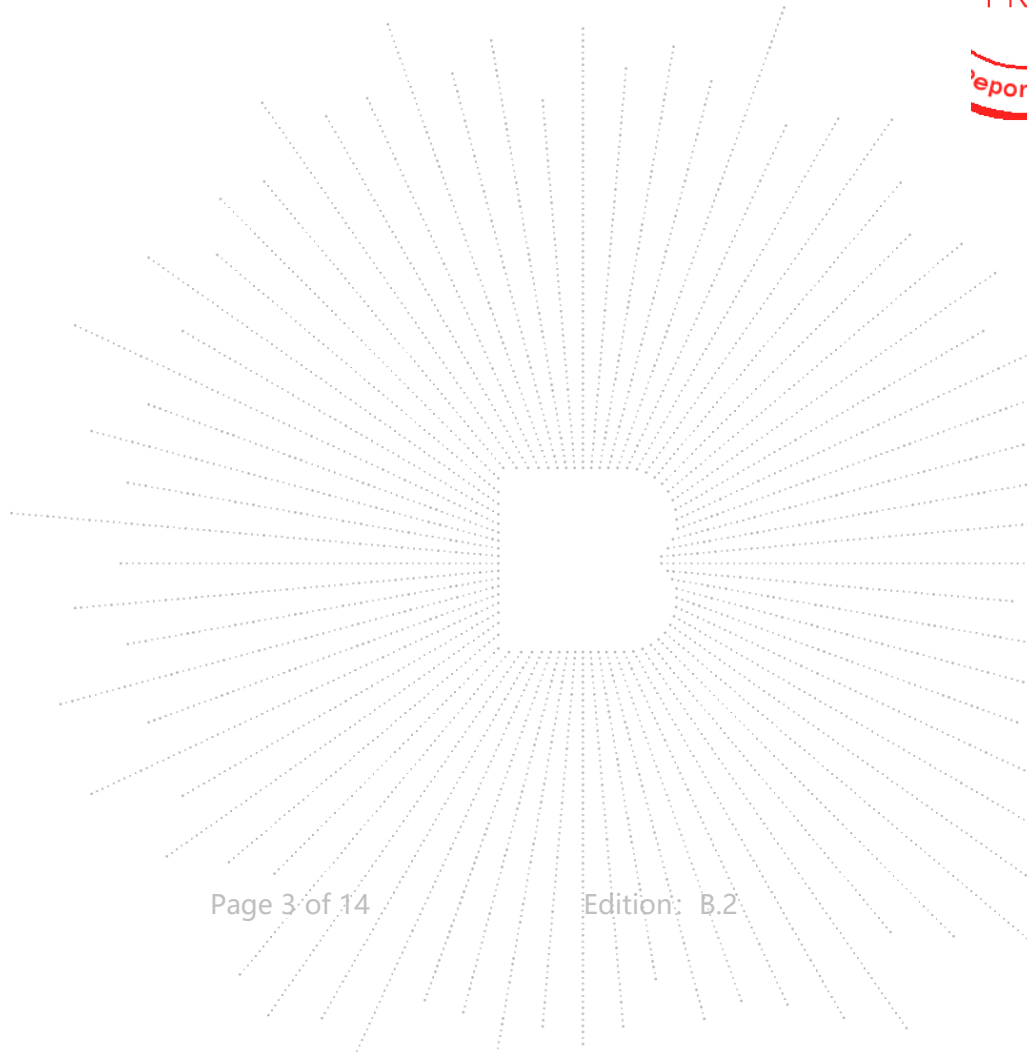
The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

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(Note: N/A Means Not Applicable)

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Report



1. Version

Report No.	Issue Date	Description	Approved
BCTC2504126541-2E	2025-04-29	Original	Valid

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2. Product Information

2.1 Product Information

Model/Type Reference: WM-08B
WM-08S, WM-08M, WM-08F
Model Differences: All the model are the same circuit and RF module, except model names and appearance of the color.
Operation Frequency: 115kHz-205kHz
Type of Modulation: ASK
Antenna installation: loop coil antenna
Ratings: Input :9V2A/5V2A-3A
Output:15W,10W,7.5W,5W

2.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Wireless charging mouse pad	EPOT	WM-08B	N/A	EUT
E-2	Adapter	UGREEN	CD289	N/A	Auxiliary
E-3	Dummy load	--	DL01	N/A	Auxiliary

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.3 Test Mode

Test Mode 1	Type-C in 5V 3A Wireless 15W
Test Mode 2	Type-C in 9V 2A Wireless 15W
Test Mode 3	Type-C in 5V 2A Wireless 7.5W
Test Mode 4	Type-C in 9V 2A Wireless 7.5W
Test Mode 5	Type-C in 5V 2A Wireless 5W
Test Mode 6	Type-C in 9V 2A Wireless 5W

Note:

All test mode were tested and passed, only shows the worst case mode which were recorded in this report.

3. Test Facility And Test Instrument Used

3.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address:1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards.

FCC Test Firm Registration Number: 712850

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

3.2 Test Instrument Used

EMF Test					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Electromagnet -ic radiation tester	Wavecontrol	SMP160	19SN0980	May 25, 2024	May 24, 2025
Electromagnet -ic field probe	Wavecontrol	WP400-3	20WP120082	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

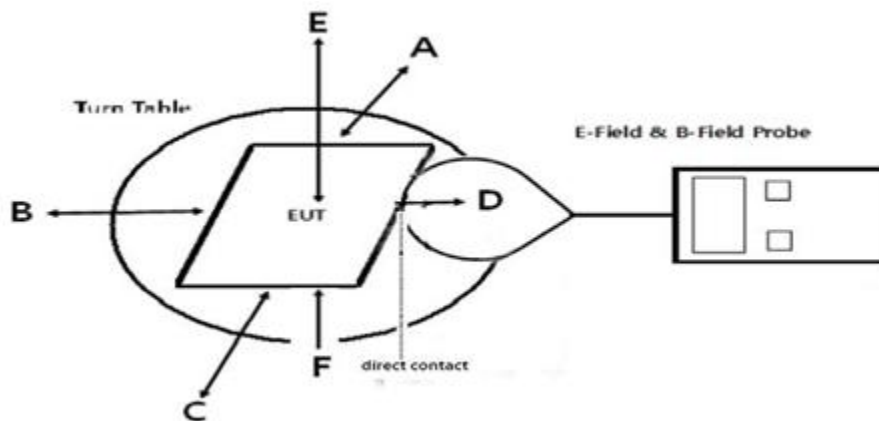
4. Method Of Measurement

4.1 Applicable Standard

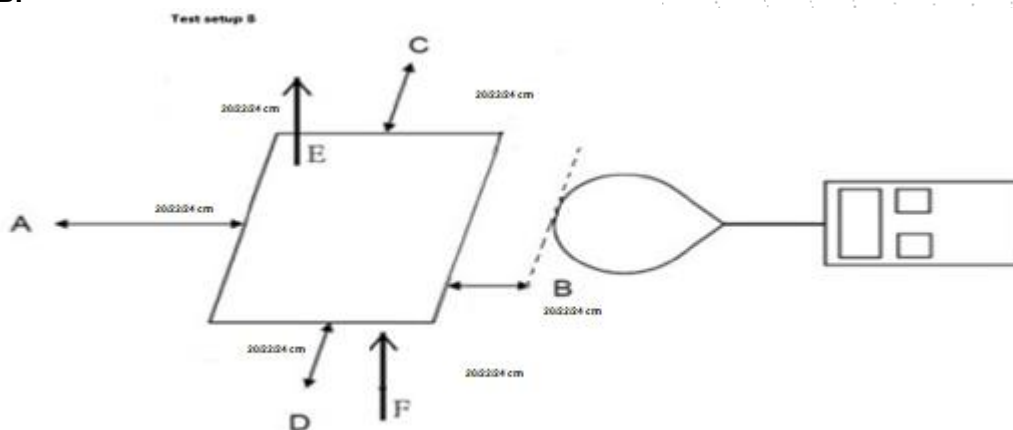
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1091 RF exposure is calculated. According KDB680106 D01v04: RF Exposure Wireless Charging Apps v04.

4.2 Block Diagram Of Test Setup

A:



B:



4.3 Limit

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

4.4 Test procedure

- The RF exposure test was performed in anechoic chamber.
- The measurement probe was placed at 0 cm surrounding the device for test setup A; and the measurement Probe was placed at 20/22/24 cm for the test setup B.
- The highest emission level was recorded and compared with limit as soon as measurement of each
- The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- The EUT was measured according to the dictates of KDB680106 D01v04.
- Remark: The EUT's test position A, B, C, D, E and F is valid for the E and H field measurements.

4.5 Equipment Approval Considerations

1. The power transfer frequency is below 1 MHz.

Yes. The operating frequencies: 115-205 kHz

2. The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

Yes. The maximum output power is: 15W

3. A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

Yes. The client device is placed directly in contact with the transmitter.

4. Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

No. The EUT has portable exposure condition.

5. The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a $1/d$ (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios (i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

Yes. See the test result in item 4.6.

6. For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

Yes. The EUT has a radiating structure and all scenarios have been tested.

4.6 Test results

Portable: Test Mode 1 (the worst mode)

H-Filed Strength at (distance from 0cm to 20cm at 2cm iteration) surrounding the EUT (A/m)

Test distance (cm)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position F(uT)
2	0.0881	0.0824	0.0984	0.0893	0.0931	0.0628
4	0.0808	0.0662	0.0964	0.0941	0.0382	0.0291
6	0.0478	0.0702	0.0923	0.0816	0.0489	0.0212
8	0.0576	0.0882	0.0815	0.0865	0.0404	0.0286
10	0.0370	0.0838	0.0764	0.0818	0.0321	0.0127
12	0.0504	0.0802	0.0892	0.0858	0.0518	0.0139
14	0.0257	0.0544	0.0839	0.0780	0.0309	0.0242
16	0.0317	0.0728	0.0926	0.0744	0.0191	0.0156
18	0.0358	0.0655	0.0804	0.0802	0.0191	0.0171
20	0.0357	0.0762	0.0912	0.0743	0.0249	0.0169

Test distance (cm)	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
2	0.0705	0.0659	0.0787	0.0714	0.0745	0.0503	1.63
4	0.0647	0.0529	0.0771	0.0753	0.0306	0.0233	1.63
6	0.0382	0.0561	0.0738	0.0652	0.0391	0.0170	1.63
8	0.0461	0.0705	0.0652	0.0692	0.0323	0.0229	1.63
10	0.0296	0.0670	0.0611	0.0654	0.0257	0.0102	1.63
12	0.0403	0.0642	0.0713	0.0687	0.0415	0.0111	1.63
14	0.0206	0.0436	0.0671	0.0624	0.0247	0.0194	1.63
16	0.0253	0.0583	0.0741	0.0595	0.0153	0.0125	1.63
18	0.0286	0.0524	0.0643	0.0642	0.0153	0.0136	1.63
20	0.0286	0.0610	0.0730	0.0594	0.0199	0.0135	1.63

Note: $A/m = uT/1.25$

Using Biot-Savart Law, the value of 0cm can be estimated through the test results of 2cm:
Distance: 0cm

Battery	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
99%	0.0839	0.0848	0.0904	0.0843	0.0754	0.0777	1.63

Using Biot-Savart Law, the value of 2cm can be estimated through the test results of 4cm:
Distance: 2cm

Battery	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
99%	0.0590	0.0750	0.0647	0.0697	0.0692	0.0526	1.63

Agreement Ratio
Distance: 2cm

Mode 1				
Test Position	Measure Value (A/m)	Valuation(A/m)	Agreement ratio	Limit
A	0.0705	0.0590	17.76%	30%
B	0.0659	0.0750	12.92%	30%
C	0.0787	0.0647	19.53%	30%
D	0.0714	0.0697	2.41%	30%
E	0.0745	0.0692	7.38%	30%
F	0.0503	0.0526	4.47%	30%
Test result: Pass				

Using Biot-Savart Law, the value of 4cm can be estimated through the test results of 6cm:
Distance: 4cm

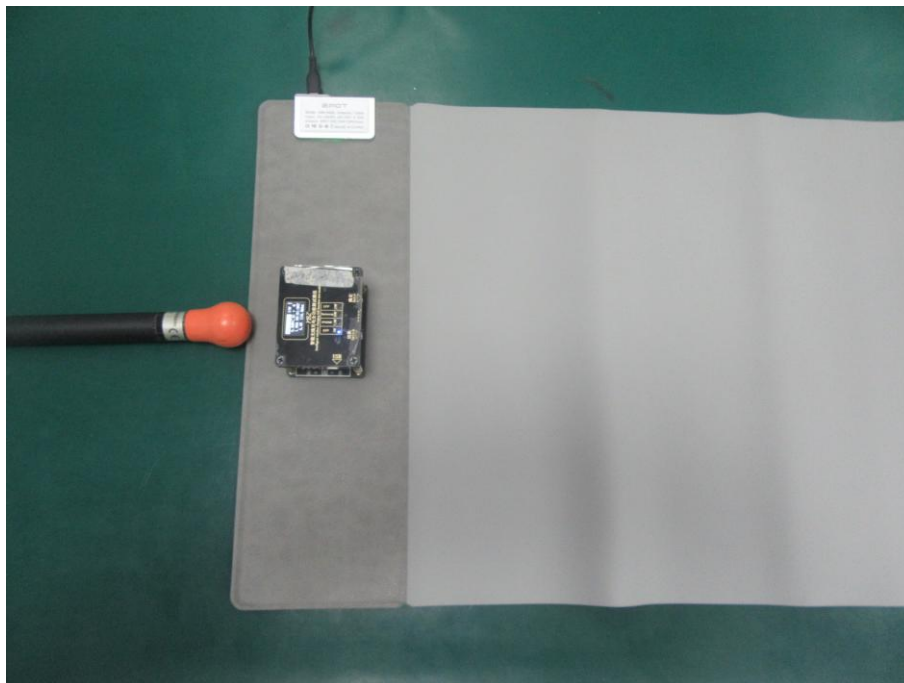
Battery	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
99%	0.0623	0.0532	0.0623	0.0780	0.0324	0.0211	1.63

Agreement Ratio
Distance: 4cm

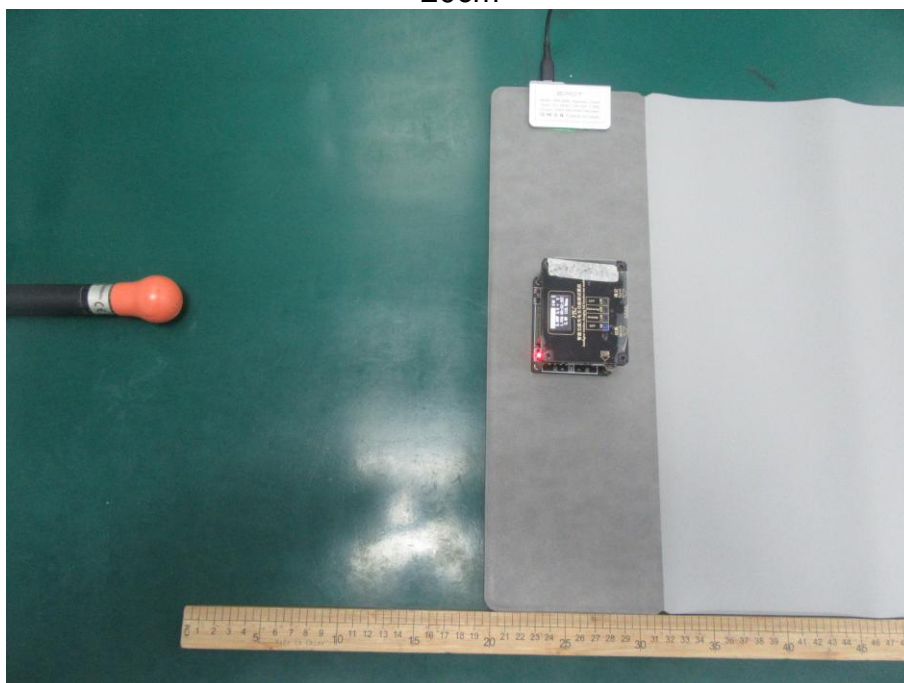
Mode 1				
Test Position	Measure Value (A/m)	Valuation(A/m)	Agreement ratio	Limit
A	0.0647	0.0623	3.78%	30%
B	0.0529	0.0532	0.57%	30%
C	0.0771	0.0623	21.23%	30%
D	0.0753	0.0780	3.52%	30%
E	0.0306	0.0324	5.71%	30%
F	0.0233	0.0211	9.91%	30%
Test result: Pass				

5. Photographs Of Test Set-Up

0cm



20cm



STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

Address:

1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

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***** END *****