

TEST REPORT

Report No.: BCTC2311413000-2E

Applicant: Dongguan OSM Digital Co., Ltd

Product Name: WIRELESS CHARGING PHOTOGRAPHIC HANDLE

Test Model: Oth-AB305S

Tested Date: 2023-11-27 to 2023-12-04

Issued Date: 2023-12-06

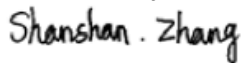
Shenzhen **BCTC** Testing Co., Ltd.



FCC ID: 2A6KA-AB305S

Product Name: WIRELESS CHARGING PHOTOGRAPHIC HANDLE
Trademark: SEAJIC
Model/Type Reference: Oth-AB305S, Oth-AB305
Prepared For: Dongguan OSM Digital Co., Ltd
Address: 501, Building 2, No.6 Tiansha Road, Keyuan City, Tangxia Town, Dong guan City, China
Manufacturer: Dongguan OSM Digital Co., Ltd
Address: 501, Building 2, No.6 Tiansha Road, Keyuan City, Tangxia Town, Dong guan City, China
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: 2023-11-27
Sample Tested Date: 2023-11-27 to 2023-12-04
Issue Date: 2023-12-06
Report No.: BCTC2311413000-2E
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310
Test Results: PASS

Tested by:



Shanshan. Zhang / 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)

1. Version

Report No.	Issue Date	Description	Approved
BCTC2311413000-2E	2023-12-06	Original	Valid

2. Product Information

2.1 Product Information

Model/Type Reference: Oth-AB305S, Oth-AB305

Model Differences: All the models are the same circuit and RF module, except model names and appearance of the color.

Hardware Version: N/A

Software Version: N/A

Operation Frequency: 115kHz-205kHz

Antenna installation: coil antenna

Ratings: Type C Input/ Output: DC 5V/2A
Wireless charging Output: 5W
Battery: DC 3.7V

2.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	WIRELESS CHARGING PHOTOGRAPHIC HANDLE	SEAJIC	Oth-AB305S	N/A	EUT
E-2	ADAPTER	Hoco.	N18	N/A	Auxiliary
E-3	Dummy load	N/A	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

AC Mode	Mode 1	Charging+Wireless charging(Full load)
	Mode 2	Charging+Wireless charging(Half load)
	Mode 3	Charging+Wireless charging(Empty load)
DC Mode	Mode 4	Wireless charging(Full load)
	Mode 5	Wireless charging(Half load)
	Mode 6	Wireless charging(Empty load)

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

FCC Designation Number: 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 15, 2023	May 14, 2024
Electromagnet -ic field probe	Wavecontrol	WP400-3	20WP120082	Sept. 26, 2023	Sept. 25, 2024
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

CO., LTD.

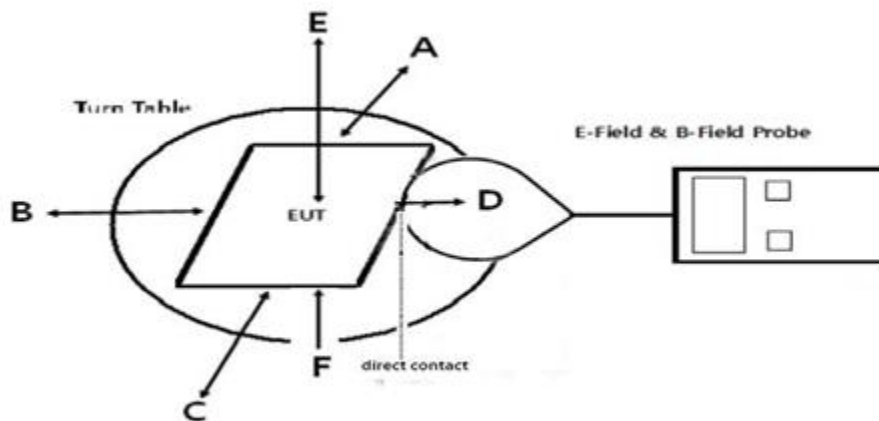
4. Method Of Measurement

4.1 Applicable Standard

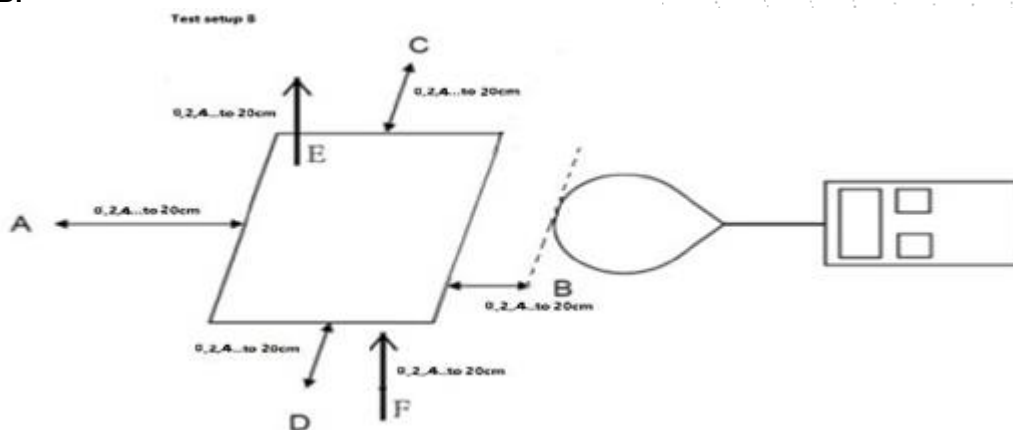
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v03: RF Exposure Wireless Charging Apps v02.

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 from 0 cm to 20 cm, in 2 cm maximum increment measured from the edge of the device 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 D01v03r01
- 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

The EUT does comply with item 5(b) of KDB 680106 D01v03

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 115-205kHz

2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of the primary coil is 5W.

3) 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.

No, the prototype has only a single coil.

4) Client device is inserted in or placed directly in contact with the transmitter.

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

5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

No, the product is portable

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.

Yes, conform.

4.6 E and H field Strength

Mobile: Test Mode 1 (the worst mode)

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

Battery level	Frequency Range (MHz)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position Top(uT)
1%	0.115-0.205	0.53	0.52	0.54	0.53	0.52	0.54
50%	0.115-0.205	0.51	0.54	0.52	0.51	0.52	0.52
99%	0.115-0.205	0.52	0.54	0.56	0.53	0.52	0.53

Battery level	Frequency Range (MHz)	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 Top(A/m)	50% Limits Test (A/m)	Limits Test (A/m)
1%	0.115-0.205	0.42	0.42	0.43	0.42	0.42	0.43	0.815	1.63
50%	0.115-0.205	0.41	0.43	0.42	0.41	0.42	0.42	0.815	1.63
99%	0.115-0.205	0.42	0.43	0.45	0.42	0.42	0.42	0.815	1.63

Note: A/m=uT÷1.25

Portable: Test Mode 4 (the worst mode)
1% battery

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)
0	1.38	1.36	1.36	1.37	1.38	1.34
2	1.25	1.24	1.25	1.26	1.23	1.21
4	1.14	1.13	1.14	1.15	1.16	1.12
6	1.08	1.07	1.08	1.08	1.06	1.04
8	1.03	1.05	1.03	1.02	1.03	1.01
10	0.96	0.95	0.94	0.97	0.96	0.93
12	0.91	0.92	0.90	0.91	0.91	0.89
14	0.85	0.86	0.85	0.84	0.85	0.83
16	0.79	0.78	0.77	0.79	0.77	0.76
18	0.68	0.67	0.68	0.68	0.66	0.64
20	0.57	0.57	0.58	0.56	0.56	0.54

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)
0	1.10	1.09	1.09	1.10	1.10	1.07	1.63
2	1.00	0.99	1.00	1.01	0.98	0.97	1.63
4	0.91	0.90	0.91	0.92	0.93	0.90	1.63
6	0.86	0.86	0.86	0.86	0.85	0.83	1.63
8	0.82	0.84	0.82	0.82	0.82	0.81	1.63
10	0.77	0.76	0.75	0.78	0.77	0.74	1.63
12	0.73	0.74	0.72	0.73	0.73	0.71	1.63
14	0.68	0.69	0.68	0.67	0.68	0.66	1.63
16	0.63	0.62	0.62	0.63	0.62	0.61	1.63
18	0.54	0.54	0.54	0.54	0.53	0.51	1.63
20	0.46	0.46	0.46	0.45	0.45	0.43	1.63

Note: $A/m = uT/1.25$

50% battery

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)
0	1.33	1.32	1.32	1.32	1.33	1.30
2	1.21	1.20	1.21	1.22	1.19	1.17
4	1.10	1.09	1.10	1.11	1.12	1.08
6	1.04	1.03	1.04	1.04	1.03	1.01
8	1.00	1.02	1.00	0.99	1.00	0.98
10	0.93	0.92	0.91	0.94	0.93	0.90
12	0.88	0.89	0.87	0.88	0.88	0.86
14	0.82	0.83	0.82	0.81	0.82	0.80
16	0.76	0.75	0.74	0.76	0.74	0.74
18	0.66	0.65	0.66	0.66	0.64	0.62
20	0.55	0.55	0.56	0.54	0.54	0.52

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)
0	1.06	1.06	1.06	1.06	1.06	1.04	1.630
2	0.97	0.96	0.97	0.98	0.95	0.94	1.630
4	0.88	0.87	0.88	0.89	0.90	0.86	1.630
6	0.83	0.82	0.83	0.83	0.82	0.81	1.630
8	0.80	0.82	0.80	0.79	0.80	0.78	1.630
10	0.74	0.74	0.73	0.75	0.74	0.72	1.630
12	0.70	0.71	0.70	0.70	0.70	0.69	1.630
14	0.66	0.66	0.66	0.65	0.66	0.64	1.630
16	0.61	0.60	0.59	0.61	0.59	0.59	1.630
18	0.53	0.52	0.53	0.53	0.51	0.50	1.630
20	0.44	0.44	0.45	0.43	0.43	0.42	1.630

Note: $A/m = uT/1.25$

99% battery

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)
0	1.32	1.30	1.30	1.31	1.32	0.104
2	1.20	1.19	1.20	1.21	1.18	0.109
4	1.09	1.08	1.09	1.10	1.11	0.100
6	1.03	1.02	1.03	1.03	1.01	0.109
8	0.99	1.00	0.99	0.98	0.99	0.109
10	0.92	0.91	0.90	0.93	0.92	0.101
12	0.87	0.88	0.86	0.87	0.87	0.106
14	0.81	0.82	0.81	0.80	0.81	0.091
16	0.76	0.75	0.74	0.76	0.74	0.109
18	0.65	0.64	0.65	0.65	0.63	0.099
20	0.55	0.55	0.56	0.54	0.54	0.105

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)
0	1.06	1.04	1.04	1.05	1.06	1.02	1.630
2	0.96	0.95	0.96	0.97	0.94	0.93	1.630
4	0.87	0.86	0.87	0.88	0.89	0.86	1.630
6	0.82	0.82	0.82	0.82	0.81	0.80	1.630
8	0.79	0.80	0.79	0.78	0.79	0.78	1.630
10	0.74	0.73	0.72	0.74	0.74	0.71	1.630
12	0.70	0.70	0.69	0.70	0.70	0.68	1.630
14	0.65	0.66	0.65	0.64	0.65	0.63	1.630
16	0.61	0.60	0.59	0.61	0.59	0.58	1.630
18	0.52	0.51	0.52	0.52	0.50	0.49	1.630
20	0.44	0.44	0.45	0.43	0.43	0.42	1.630

Note: $A/m = uT/1.25$

5. Photographs Of Test Set-Up

Mobile: Test Mode 1-3

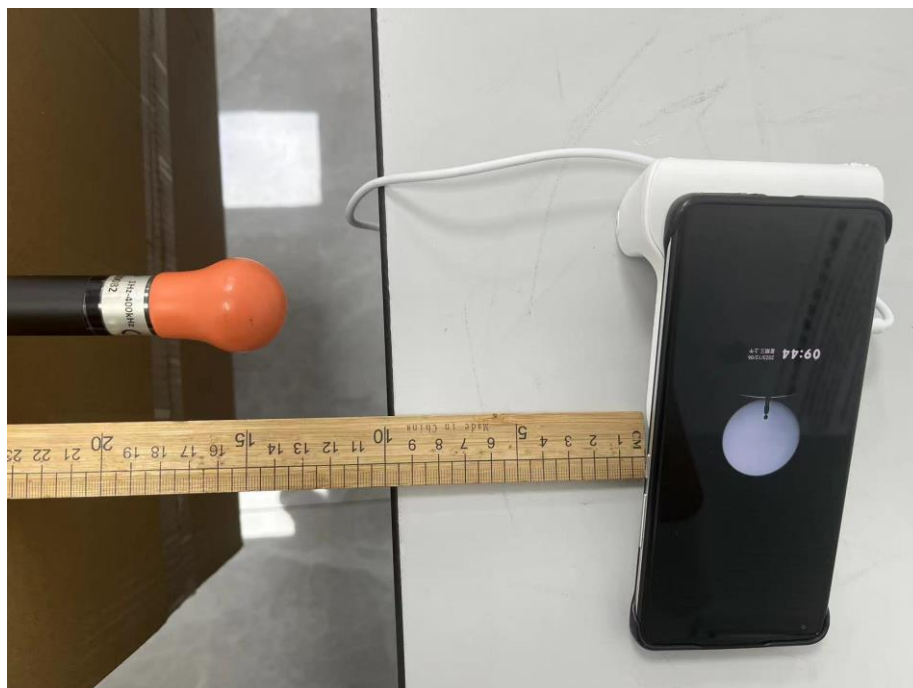
20CM



15CM



BCTC
BCTC
PPR
Report

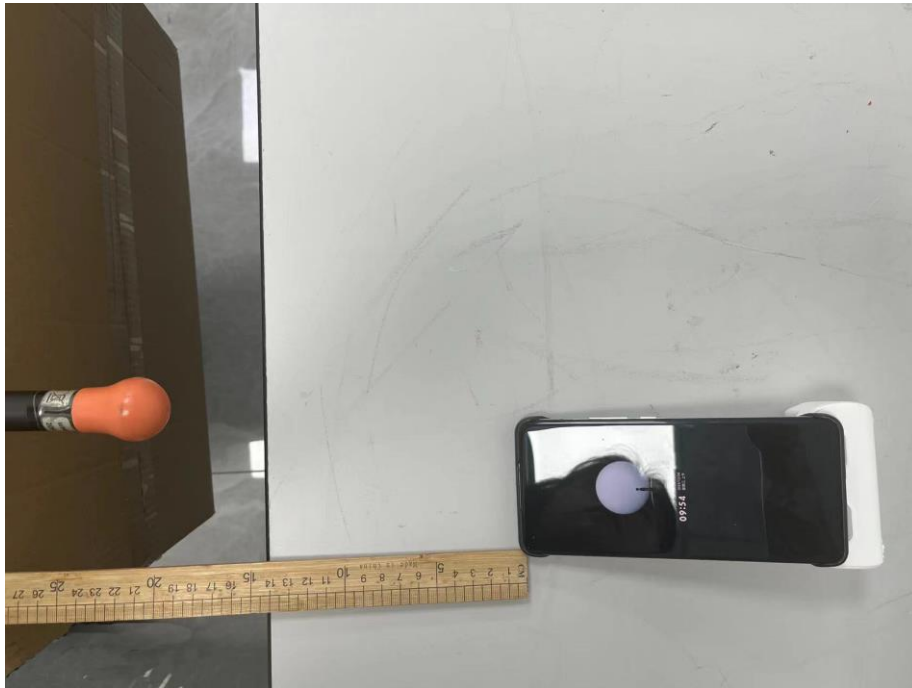


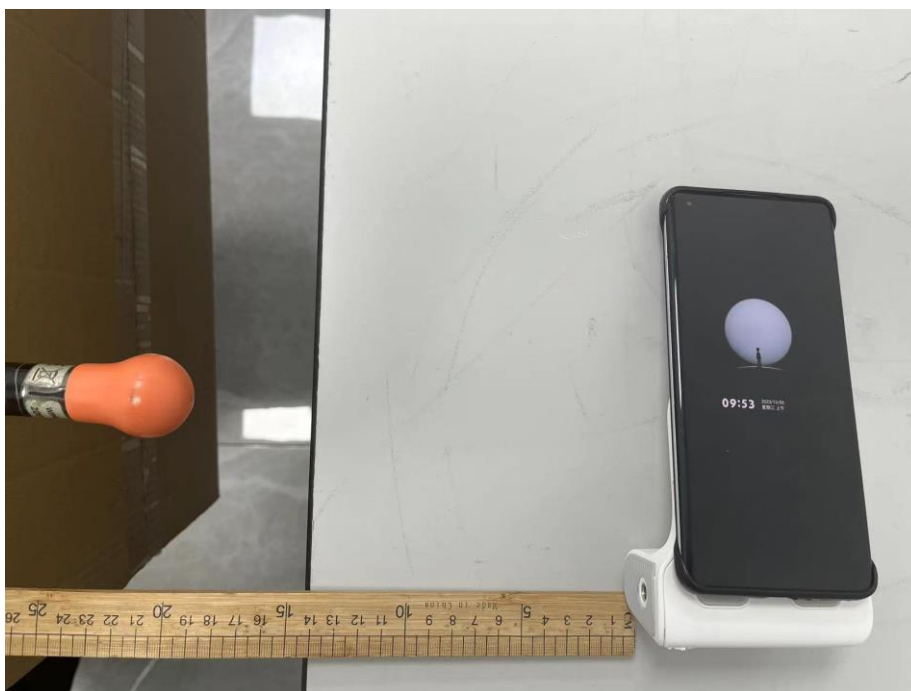
TEST
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Portable: Test Mode 4-6

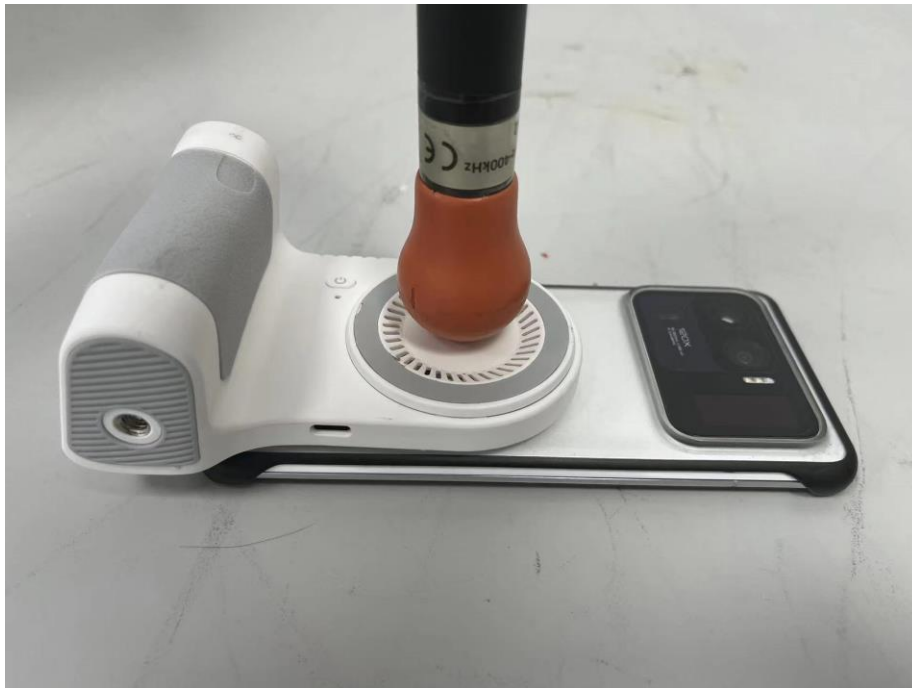
20CM



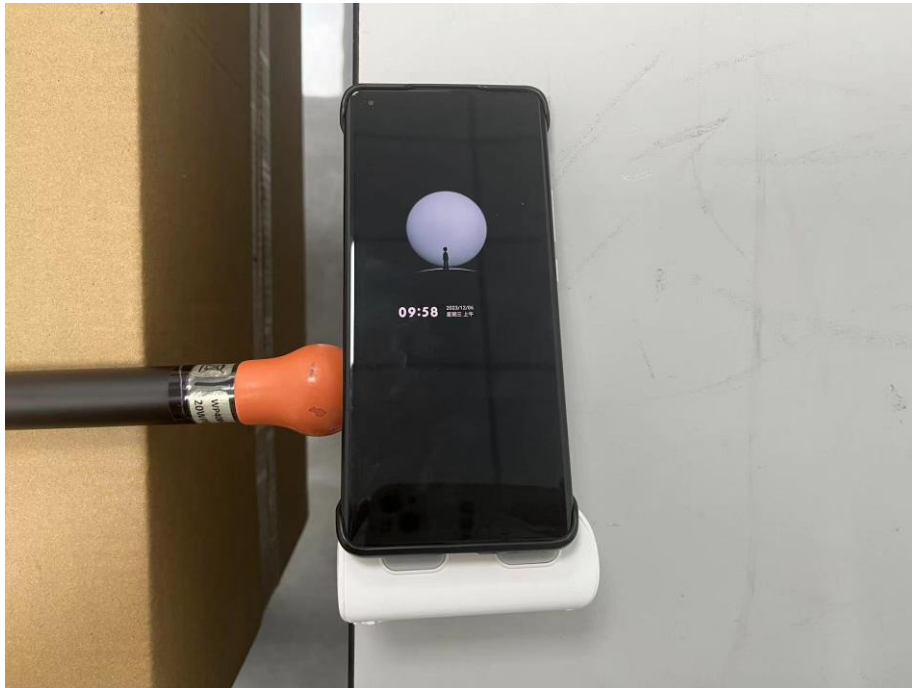




0CM







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 *****

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CO., LTD