

TEST REPORT

Report No.: BCTC2409871519-2E

Applicant: HandStandsPromo LLC

Product Name: PowerLynx

Test Model: X9842001007

Tested Date: 2024-09-03 to 2024-09-11

Issued Date: 2024-09-12

Shenzhen BCTC Testing Co., Ltd.



FCC ID: 2AMZY-98420

Product Name: PowerLynx
Trademark: N/A
Model/Type reference: X9842001007
Prepared For: HandStandsPromo LLC
Address: 1770 South 5350 west Suite 100 Salt Lake City Utah 84104 USA
Manufacturer: HandStandsPromo LLC
Address: 1770 South 5350 west Suite 100 Salt Lake City Utah 84104 USA
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: 2024-09-02
Sample tested Date: 2024-09-03 to 2024-09-11
Issue Date: 2024-09-12
Report No.: BCTC2409871519-2E
Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310
KDB 680106 D01 Wireless Power Transfer v04
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.

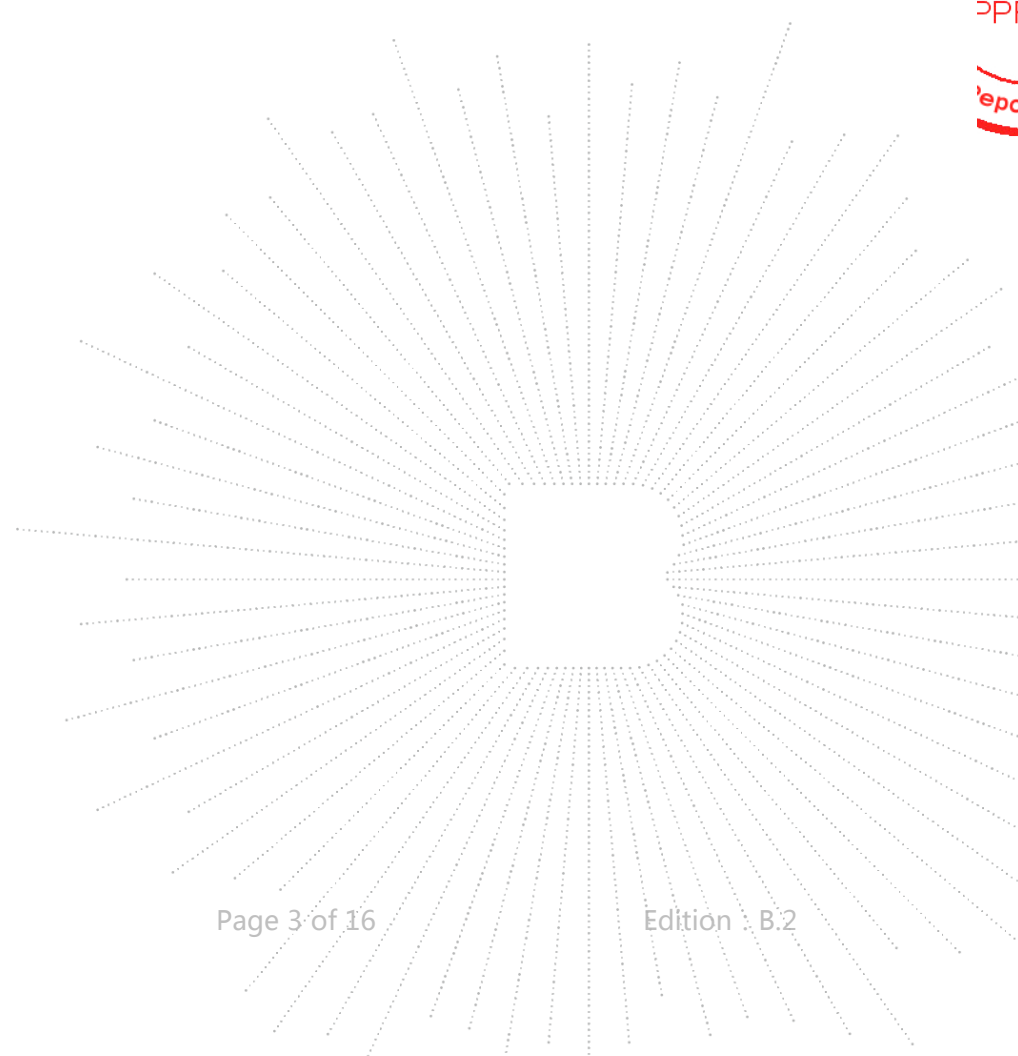


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(Note: N/A Means Not Applicable)

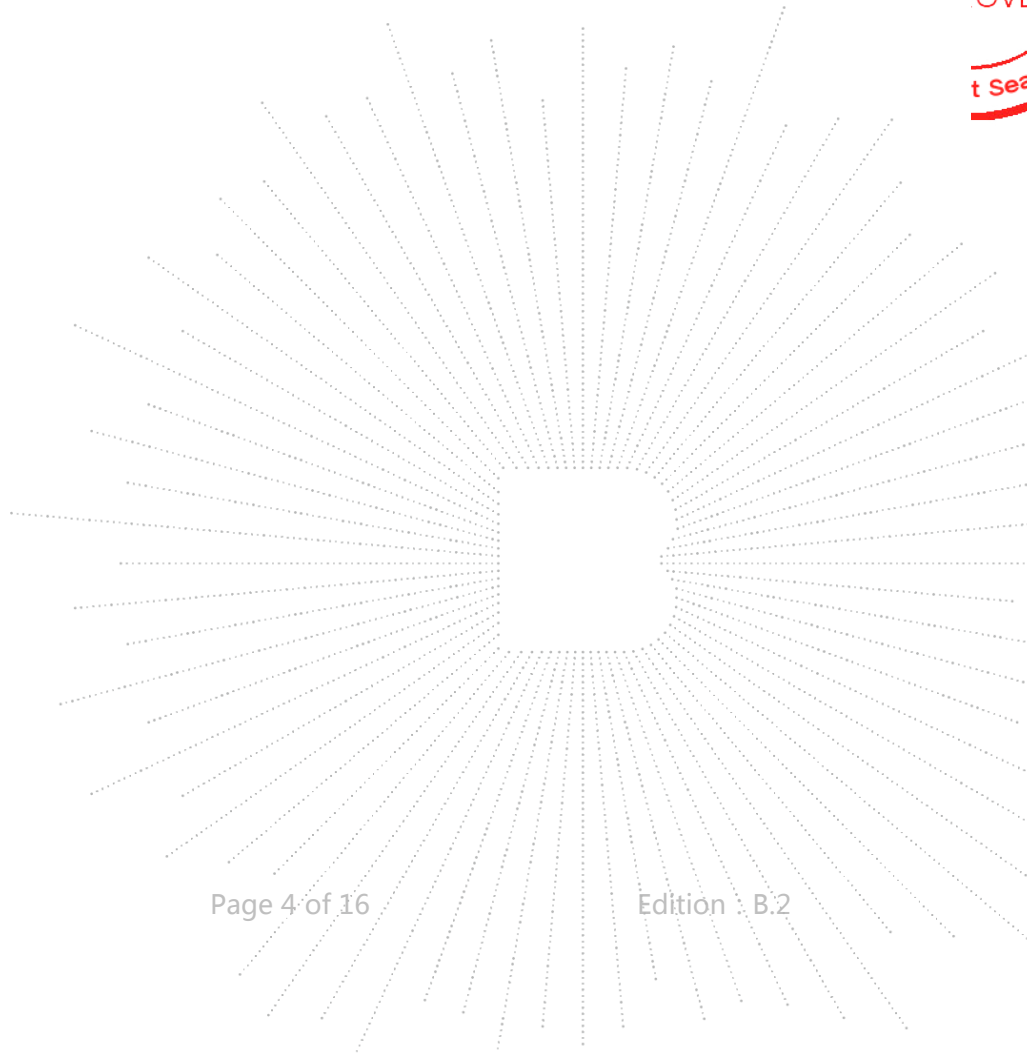
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1. Version

Report No.	Issue Date	Description	Approved
BCTC2409871519-2E	2024-09-12	Original	Valid

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2. Product Information

2.1 Product Information

Model/Type Ref.:	X9842001007
Model differences:	N/A
Modulation:	MSK
Operation Frequency:	115kHz-220kHz(Phone, Earbuds) 300kHz-360kHz(IWATCH)
Antenna installation:	loop coil antenna DC 3.7V From Battery USB Input: DC 5V/2A
Ratings:	USB Output: DC 5V/2A Wireless Charging Output: 5W(Phone), 3W(Earbuds) Wireless Charging Output: 2.5W(IWATCH)

2.2 Support Equipment

Device Type	Brand	Model	Series No.	Note
Dummy load	N/A	DL01	N/A	Auxiliary
Adapter	N/A	CD226	N/A	Auxiliary

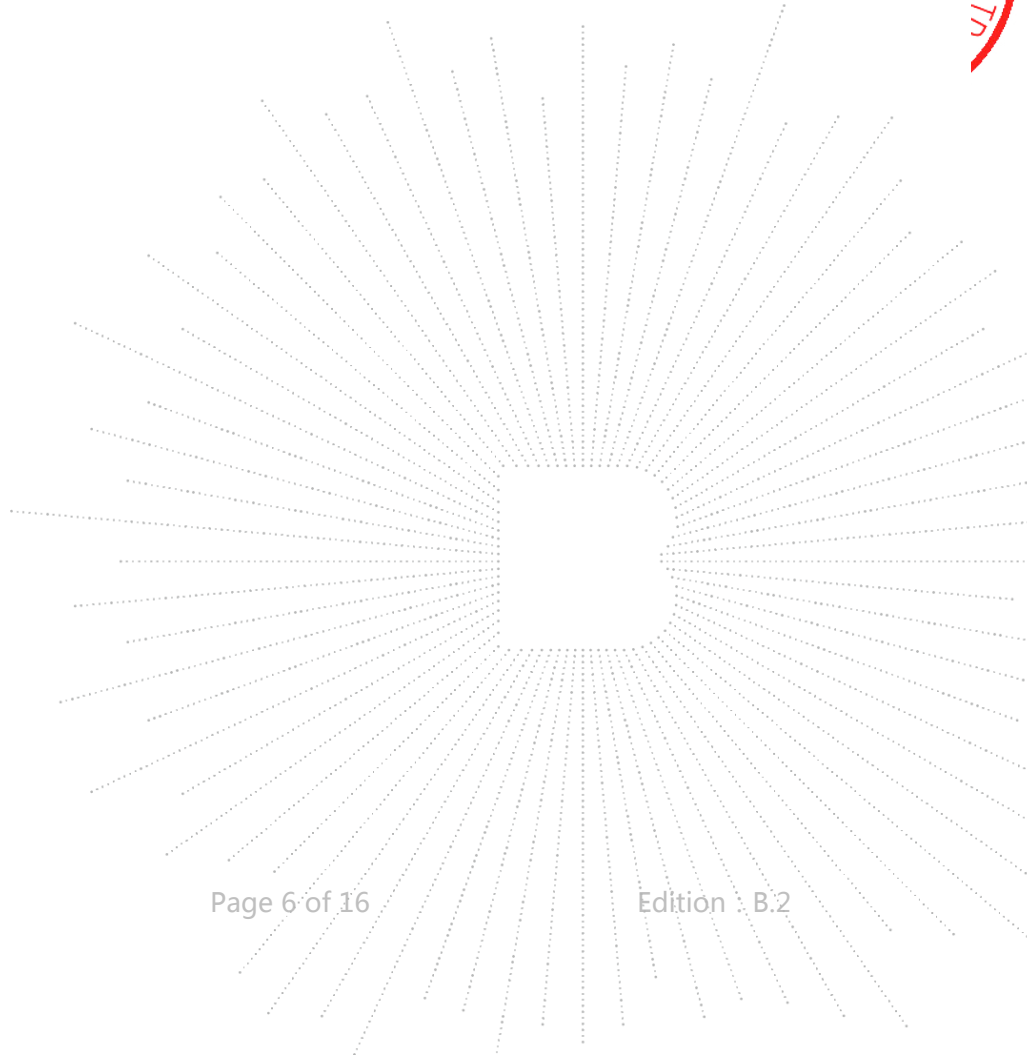
Notes:

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

2.3 Test Mode

AC adapter Mode	
Test Mode 1	AC Charging+ Wireless Charging+ Full load(5W(Phone))
Test Mode 2	AC Charging+ Wireless Charging+ Half-load(5W(Phone))
Test Mode 3	AC Charging+ Wireless Charging+ Null load(5W(Phone))
Test Mode 4	AC Charging+ Wireless Charging+ Full load(3W(Earbuds))
Test Mode 5	AC Charging+ Wireless Charging+ Half-load(3W(Earbuds))
Test Mode 6	AC Charging+ Wireless Charging+ Null load(3W(Earbuds))
Test Mode 7	AC Charging+ Wireless Charging+ Full load(2.5W(IWATCH))
Test Mode 8	AC Charging+ Wireless Charging+ Half-load(2.5W(IWATCH))
Test Mode 9	AC Charging+ Wireless Charging+ Null load(2.5W(IWATCH))
Test Mode 10	AC Charging+ Wireless Charging+ Full load(5W(Phone)+(2.5W(IWATCH)) *
Test Mode 11	AC Charging+ Wireless Charging+ Half-load(5W(Phone)+(2.5W(IWATCH))
Test Mode 12	AC Charging+ Wireless Charging+ Null load(5W(Phone)+(2.5W(IWATCH))
Test Mode 13	AC Charging+ Wireless Charging+ Full load(3W(Earbuds)+(2.5W(IWATCH))
Test Mode 14	AC Charging+ Wireless Charging+ Half-load(3W(Earbuds)+(2.5W(IWATCH))
Test Mode 15	AC Charging+ Wireless Charging+ Null load(3W(Earbuds)+(2.5W(IWATCH))
Battery Mode	
Test Mode 16	Wireless Charging+ Full load(5W(Phone))
Test Mode 17	Wireless Charging+ Half-load(5W(Phone))
Test Mode 18	Wireless Charging+ Null load(5W(Phone))
Test Mode 19	Wireless Charging+ Full load(3W(Earbuds))

Test Mode 20	Wireless Charging+ Half-load(3W(Earbuds))
Test Mode 21	Wireless Charging+ Null load(3W(Earbuds))
Test Mode 22	Wireless Charging+ Full load(2.5W(IWATCH))
Test Mode 23	Wireless Charging+ Half-load(2.5W(IWATCH))
Test Mode 24	Wireless Charging+ Null load(2.5W(IWATCH))
Test Mode 25	Wireless Charging+ Full load(5W(Phone))+ (2.5W(IWATCH)) *
Test Mode 26	Wireless Charging+ Half-load(5W(Phone))+ (2.5W(IWATCH))
Test Mode 27	Wireless Charging+ Null load(5W(Phone))+ (2.5W(IWATCH))
Test Mode 28	Wireless Charging+ Full load(3W(Earbuds))+ (2.5W(IWATCH))
Test Mode 29	Wireless Charging+ Half-load(3W(Earbuds))+ (2.5W(IWATCH))
Test Mode 30	Wireless Charging+ Null load(3W(Earbuds))+ (2.5W(IWATCH))

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	\	\



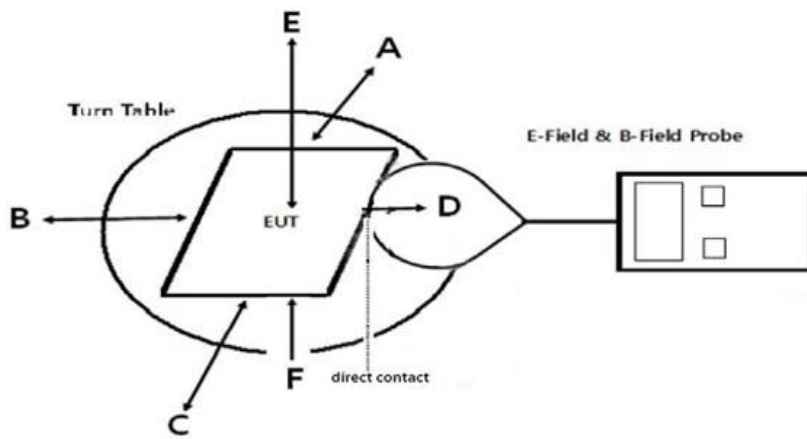
4. Method Of Measurement

4.1 Applicable Standard

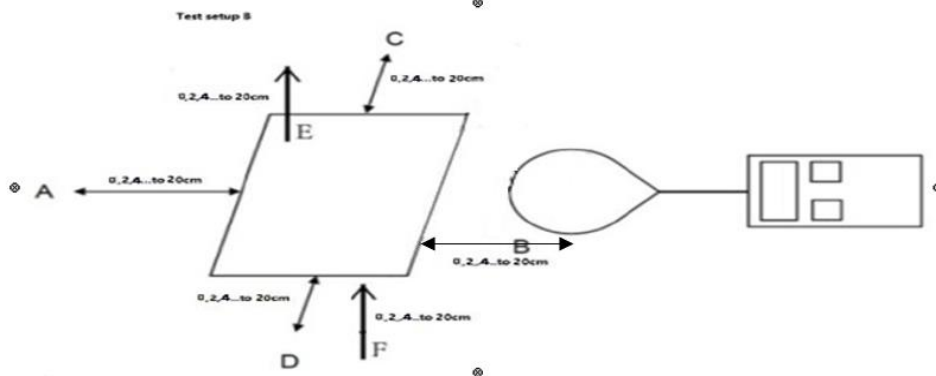
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According 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 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 D01v04
- Remark: The EUT's test position A, B, C, D, E and F is valid for the E and H field measurements.

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4.5 Equipment Approval Considerations

1. The power transfer frequency is below 1 MHz.
Yes. The operating frequencies: 115-360 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: 5W

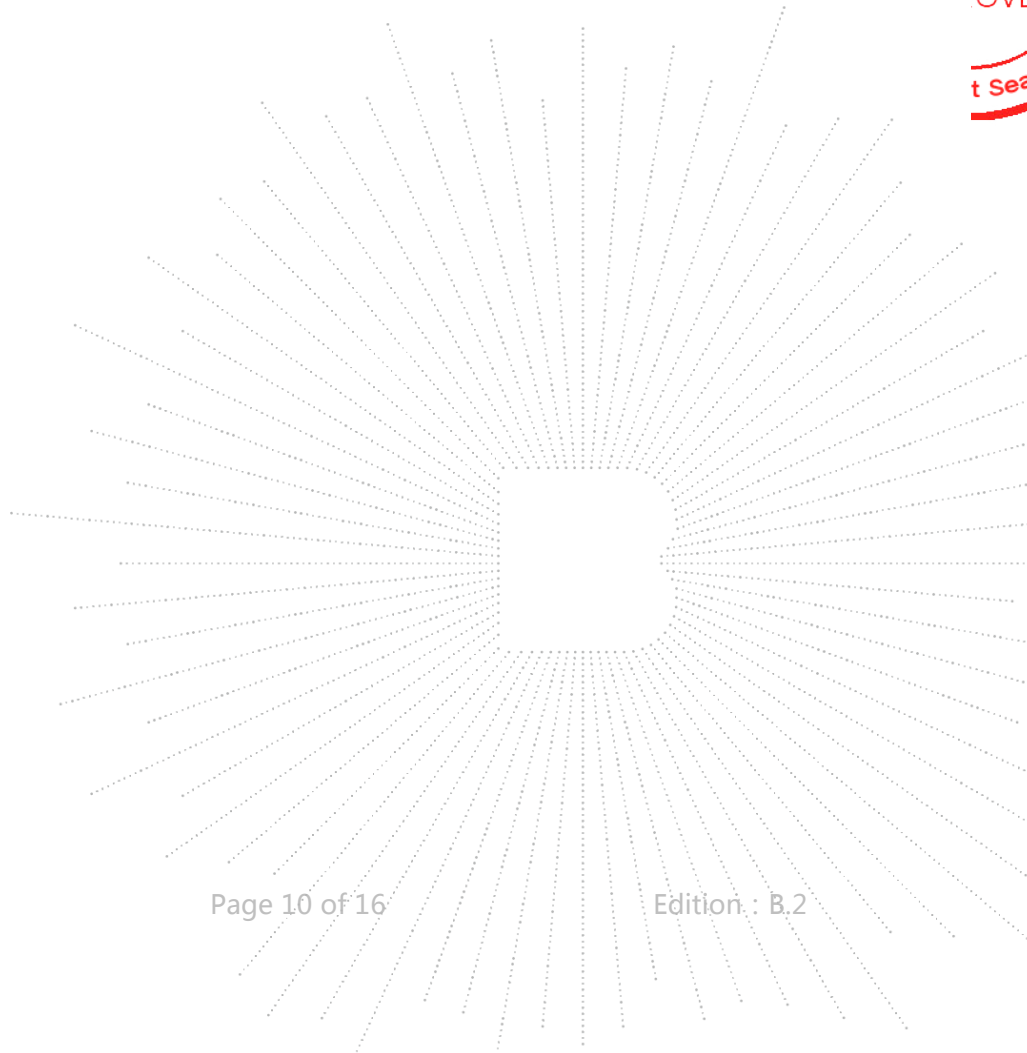
3. A client device providing the maximum permitted load is placed in physical contact with the transmitter (i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)
Yes. Client device is placed directly in contact with the transmitter.

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.
Yes. Conform to

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.
Yes. Conform.

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4.6 E and H field Strength

For setup B:

AC Mode

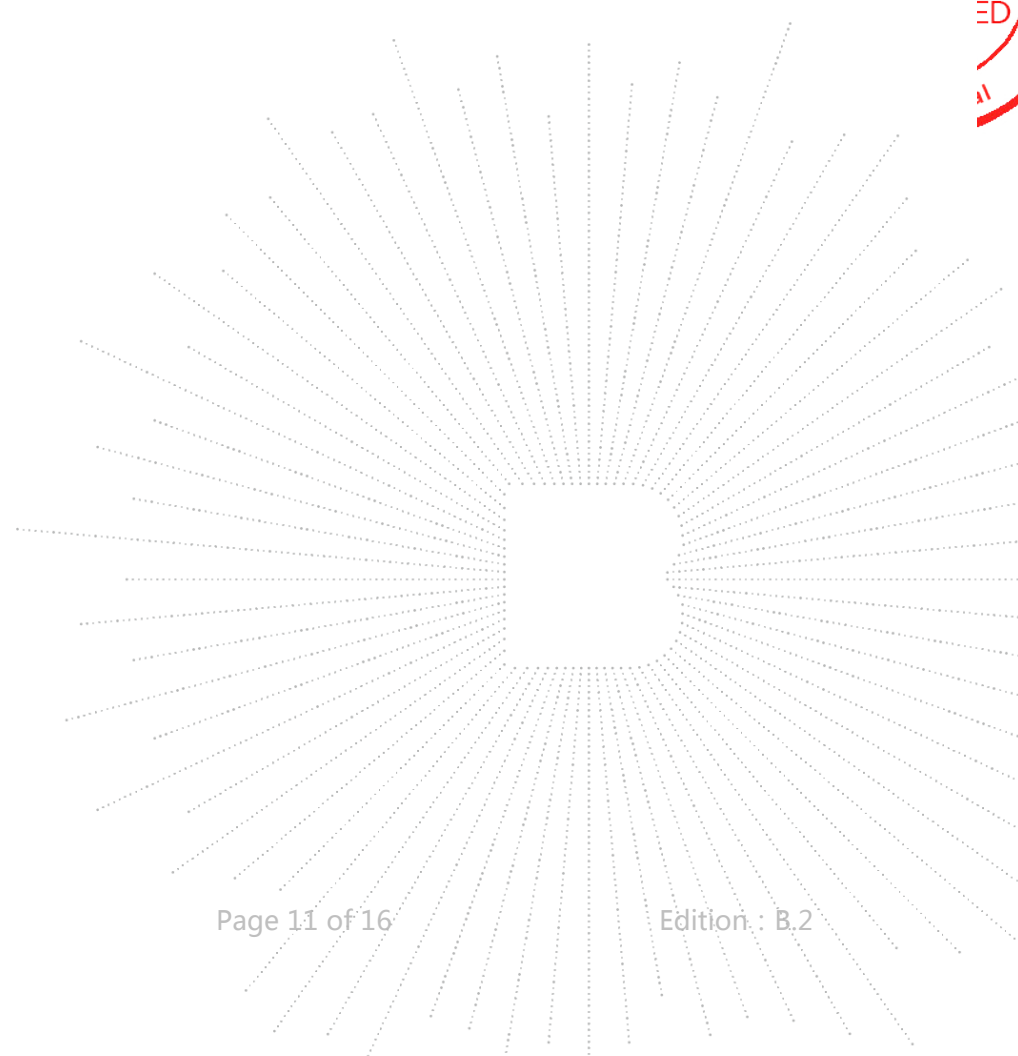
We measured the H-Field Strength of 20cm, 22cm and 24cm, and recorded the test data of the worst 20cm Mobile: Test Mode 10 (the worst mode)

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

Frequency Range (KHz)	Test Position A(uT)	Test Position B(uT)	Test Position C(uT)	Test Position D(uT)	Test Position E(uT)	Test Position Top(uT)
115-360	0.073	0.062	0.072	0.077	0.071	0.078

Frequency Range (KHz)	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)
115-360	0.058	0.050	0.058	0.062	0.057	0.062	0.85	1.63

Note: $A/m = uT \div 1.25$



For setup A:
Worst Case Operating Mode: Mode 25

H-Filed Strength at (Distance from 2cm to 20cm and with 2-cm increments) 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	0.1180	0.1193	0.1102	0.1276	0.1251	0.1137
4	0.0808	0.0867	0.0908	0.1032	0.0447	0.0298
6	0.0562	0.0902	0.0719	0.0833	0.0575	0.0215
8	0.0455	0.0888	0.0911	0.0734	0.0444	0.0324
10	0.0285	0.0669	0.0767	0.0768	0.0462	0.0170
12	0.0540	0.0610	0.0934	0.0792	0.0446	0.0171
14	0.0308	0.0634	0.0719	0.0796	0.0252	0.0258
16	0.0378	0.0817	0.0859	0.0708	0.0306	0.0176
18	0.0228	0.0652	0.0615	0.0781	0.0190	0.0152
20	0.0398	0.0646	0.0857	0.0696	0.0218	0.0113

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	0.0944	0.0954	0.0882	0.1021	0.1001	0.0910	1.63
4	0.0646	0.0693	0.0727	0.0825	0.0358	0.0238	1.63
6	0.0450	0.0721	0.0575	0.0667	0.0460	0.0172	1.63
8	0.0364	0.0711	0.0728	0.0587	0.0355	0.0259	1.63
10	0.0228	0.0535	0.0613	0.0615	0.0370	0.0136	1.63
12	0.0432	0.0488	0.0747	0.0634	0.0357	0.0137	1.63
14	0.0246	0.0508	0.0575	0.0637	0.0202	0.0206	1.63
16	0.0302	0.0654	0.0687	0.0566	0.0245	0.0141	1.63
18	0.0182	0.0521	0.0492	0.0625	0.0152	0.0121	1.63
20	0.0318	0.0517	0.0685	0.0557	0.0175	0.0090	1.63

Note: A/m=uT/1.25

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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%	0.1151	0.1082	0.0919	0.1054	0.1107	0.1053	1.63

Agreement Ratio
Distance: 2cm

Mode 25						
Test Position	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)
Measure Value (A/m)	0.0944	0.0954	0.0882	0.1021	0.1001	0.0910
Valuation(A/m)	0.1151	0.1082	0.0919	0.1054	0.1107	0.1053
Agreement ratio	19.76	12.57	4.11	3.18	10.06	14.57
Limit	30%	30%	30%	30%	30%	30%
Test result: Pass						

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

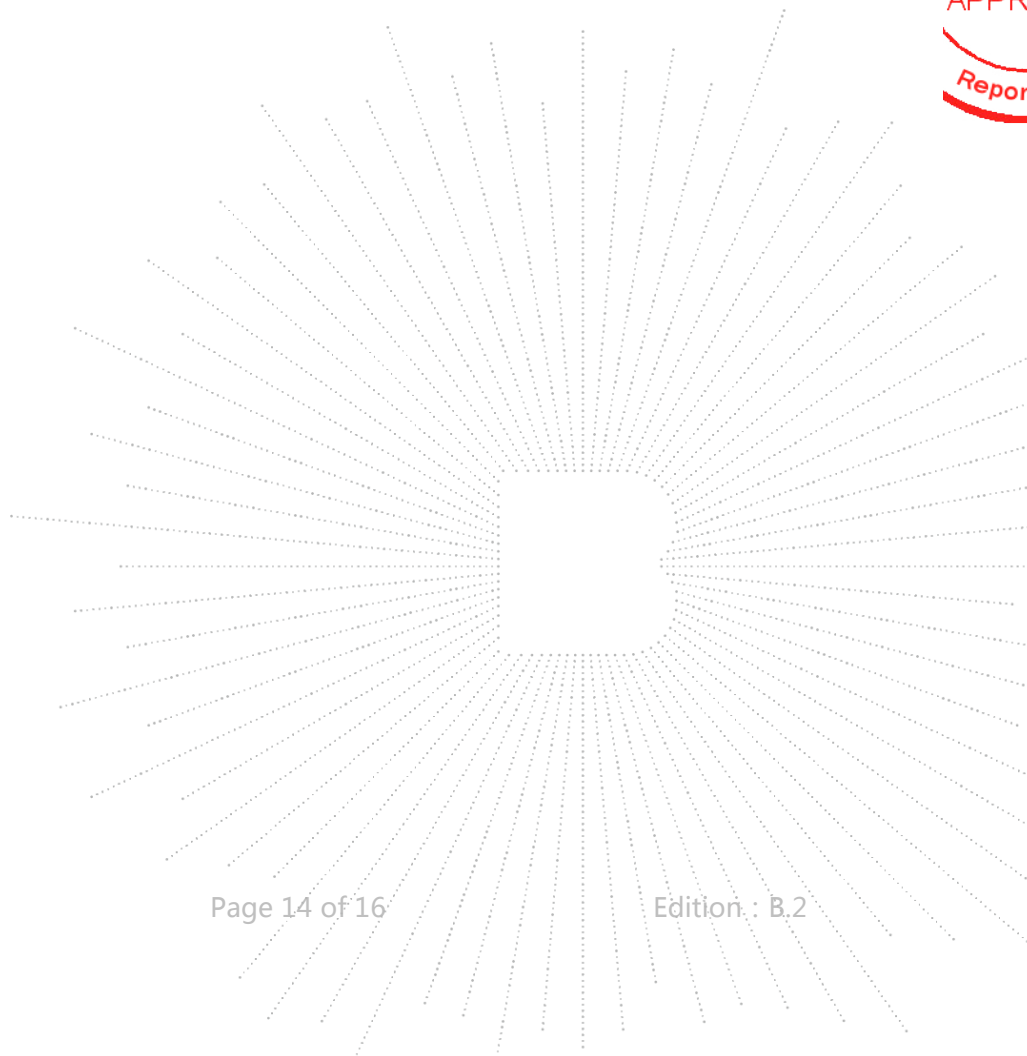
Battery	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
99%	0.0725	0.0759	0.0805	0.0943	0.0446	0.0317	1.63

Agreement Ratio
Distance: 4cm

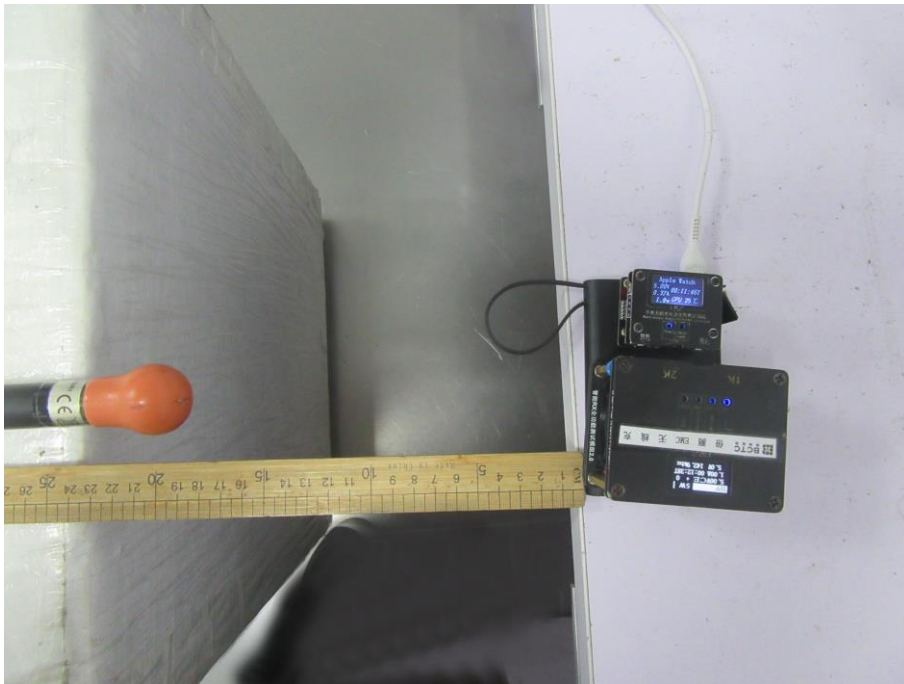
Mode 25						
Test Position	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)
Measure Value (A/m)	0.0646	0.0693	0.0727	0.0825	0.0358	0.0238
Valuation(A/m)	0.0725	0.0773	0.0805	0.0943	0.0446	0.0317
Agreement ratio	11.52	10.91	10.18	13.35	21.89	28.47
Limit	30%	30%	30%	30%	30%	30%
Test result: Pass						

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%	0.1217	0.0989	0.1195	0.1214	0.1150	0.1578	1.63
Test result: Pass							



5. Photographs Of Test Set-Up



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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.

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