

TEST REPORT

Report No.: BCTC2408555444-2E

Applicant: Ugreen Group Limited

Product Name: Magnetic Wireless Power Bank

Test Model: PB763

Tested Date: 2024-08-22 to 2024-11-19

Issued Date: 2024-11-20

Shenzhen BCTC Testing Co., Ltd.



FCC ID:2AQI5-PB763

Product Name: Magnetic Wireless Power Bank

Trademark: **UGREEN**

Model/Type Reference: PB763

Prepared For: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, China

Manufacturer: Ugreen Group Limited

Address: Ugreen Building, Longcheng Industrial Park, Longguanxi Road, Longhua, ShenZhen, 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: 2024-08-22

Sample Tested Date: 2024-08-22 to 2024-11-19

Issue Date: 2024-11-20

Report No.: BCTC2408555444-2E

Test Standards: FCC CFR 47 part1, 1.1307(b), 1.1310
KDB 680106 D01 Wireless Power Transfer v04

Test Results: PASS

Tested by:



Kelsey Tan/ 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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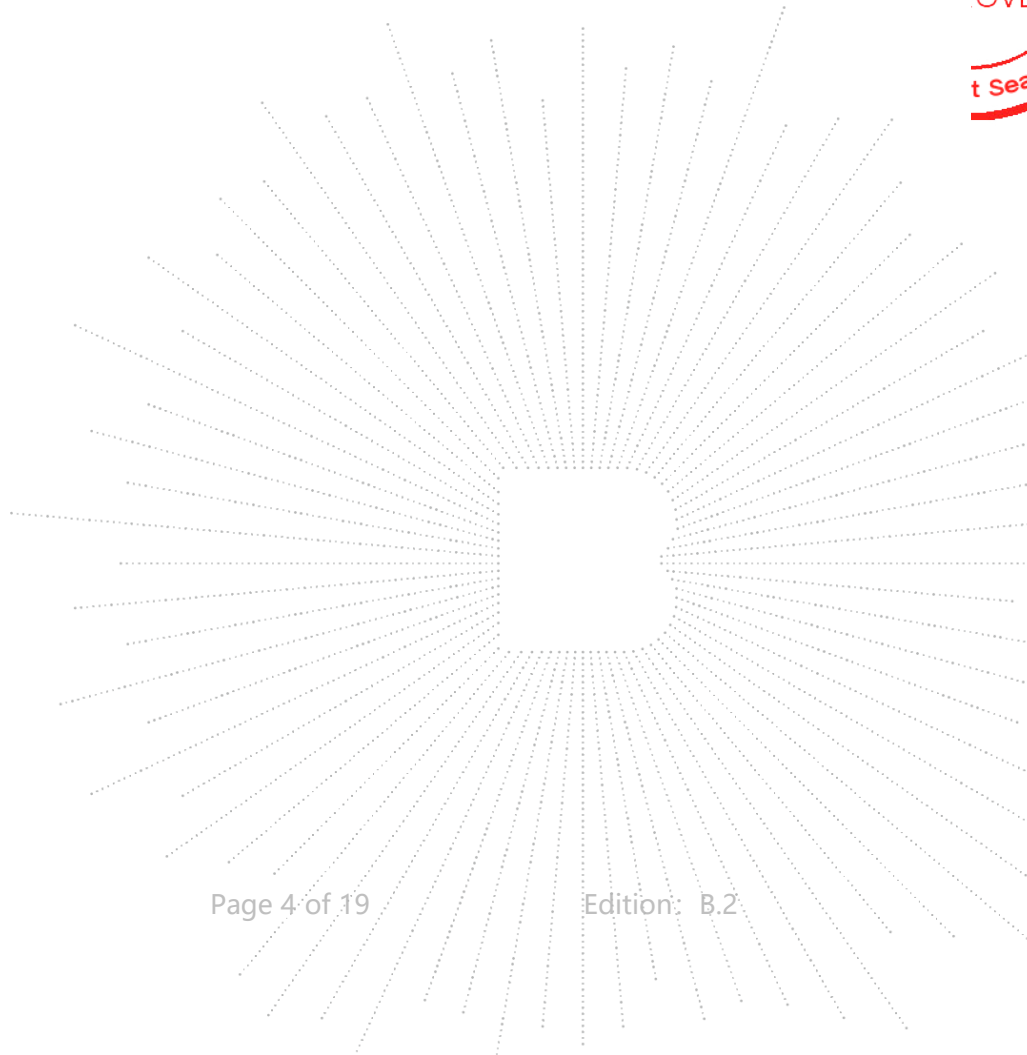
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(Note: N/A Means Not Applicable)

1. Version

Report No.	Issue Date	Description	Approved
BCTC240855444-2E	2024-11-20	Original	Valid

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2. Product Information

2.1 Product Information

Model/Type Reference: PB763
 P/N code Differences: All the P/N code and test models are the same circuit and RF module, except for the appearance color and sales platform. 45211 is white, 55135 is gray, and the test code is 45211.
 Hardware Version: A1
 Software Version: V1
 Operation Frequency: 5W+7.5W: 112kHz-148.5kHz
 15W: 360kHz
 Modulation: FSK
 Antenna installation: loop coil antenna
 Ratings: USB-C (IN) Input:5V \leq 3A/9V \leq 2.22A
 USB-C (OUT) Output:5V \leq 2.4A/5V \leq 3A/9V \leq 2.22A/12V \leq 1.67A
 Wireless Charging Output Power:15W Max
 Cell Capacity: 10000mAh (2X5000mAh)
 Polymer Lithium-ion Battery Rated Energy: 36Wh (3.6V 10000mAh)
 Rated Capacity: 6000mAh (TYP 5V 2.4A)

Remark:

- P/N code in the below table, for marketing purpose, will be marked on the marking plate.

45211	45211P	45211X	45211A	45211B	45211C	45211U	45211JP	45211ZD
55135	55135P	55135X	55135A	55135B	55135C	55135U	55135JP	55135ZD

PCB boards come from two different factories, The components' parameters, specifications and layout are the same. The report shows the worst data(PCB 1).

PCB 1: HUIZHOU TAISHENG ELECTRONICS CO LTD

PCB 2: JU XIN ELECTRIC TECH (MEIZHOU) CO LTD



2.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Magnetic Wireless Power Bank	UGREEN	PB763	N/A	EUT
E-2	Adapter	UGREEN	CD289	N/A	Auxiliary
E-3	Dummy load	N/A	DL01	N/A	Auxiliary

Notes:

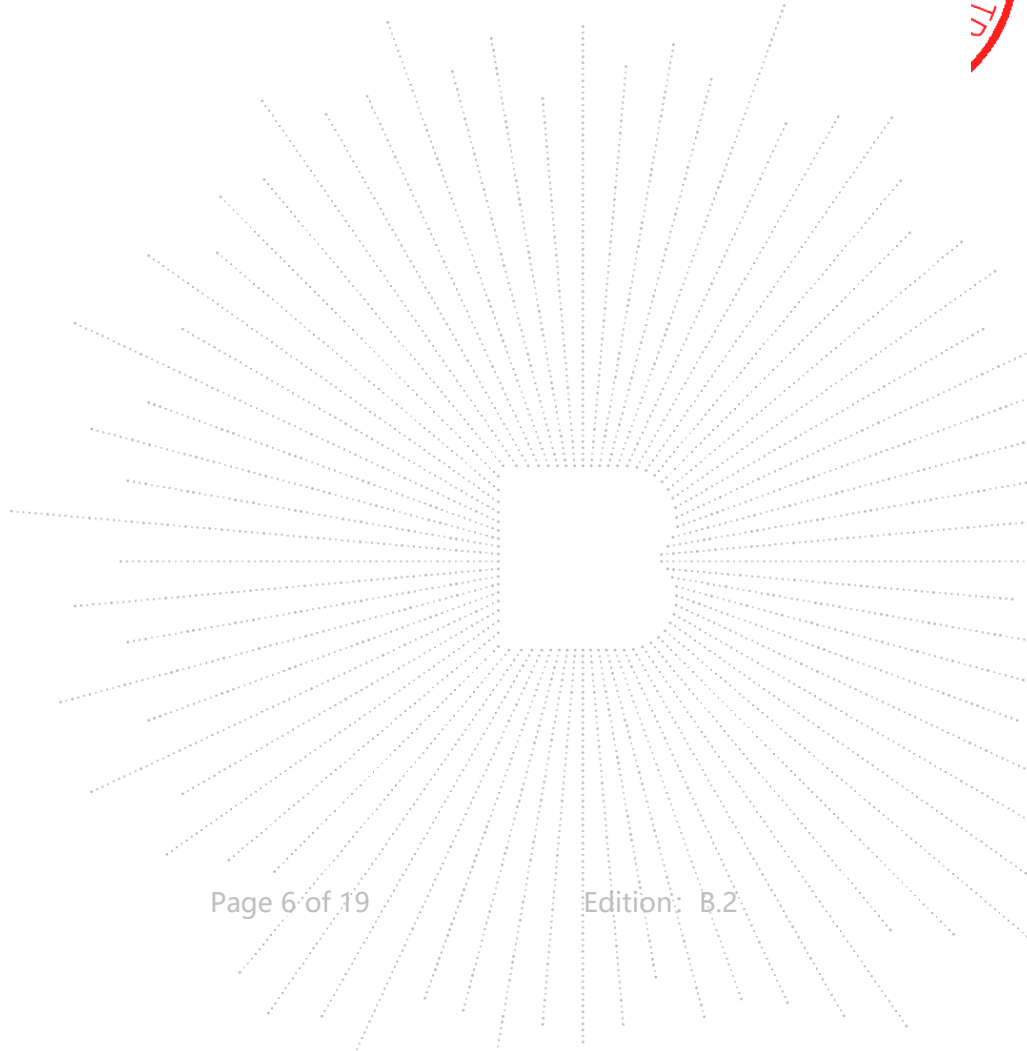
1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

2.3 Test Mode

AC Mode	Mode 1	USB-C IN :(5V $\overline{=}$ 3A)+5W
	Mode 2	USB-C IN :(9V $\overline{=}$ 2.22A)+7.5W
DC Mode	Mode 3	Wireless charge 5W
	Mode 4	Wireless charge 7.5W
	Mode 5	Wireless charge 15W

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

CO., LTD



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	\	\



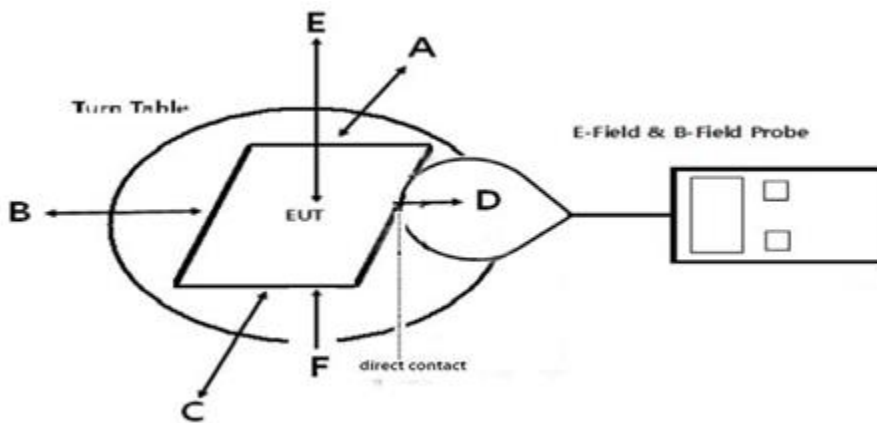
4. Method Of Measurement

4.1 Applicable Standard

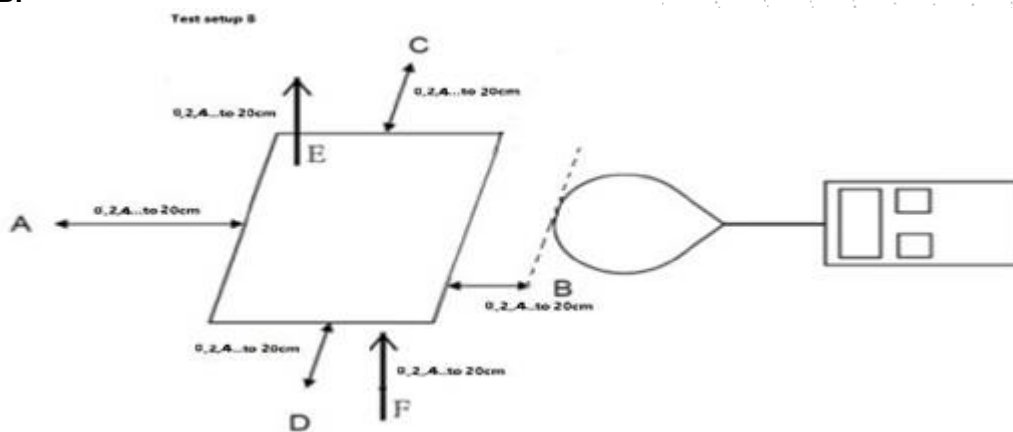
According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01v04: RF Exposure Wireless Charging 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

- a)The RF exposure test was performed in anechoic chamber.
- b)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.
- c)The highest emission level was recorded and compared with limit as soon as measurement of each
- d)The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E , F) were completed.
- d)The EUT was measured according to the dictates of KDB680106 D01v04.
- f)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 D01v04

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 112-148.5kHz and 360kHz.

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 15W.

3) A client device providing the maximum permitted load is placed in physical contact with the transmitter.

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

4) Only § 2.1091-Mobile exposure conditions apply

No, the EUT is portable condition assessment

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, confirm.

4.6 E and H field Strength

We measured the H-Field Strength of 20cm, 22cm and 24cm, and recorded the test data of the worst 20cm.

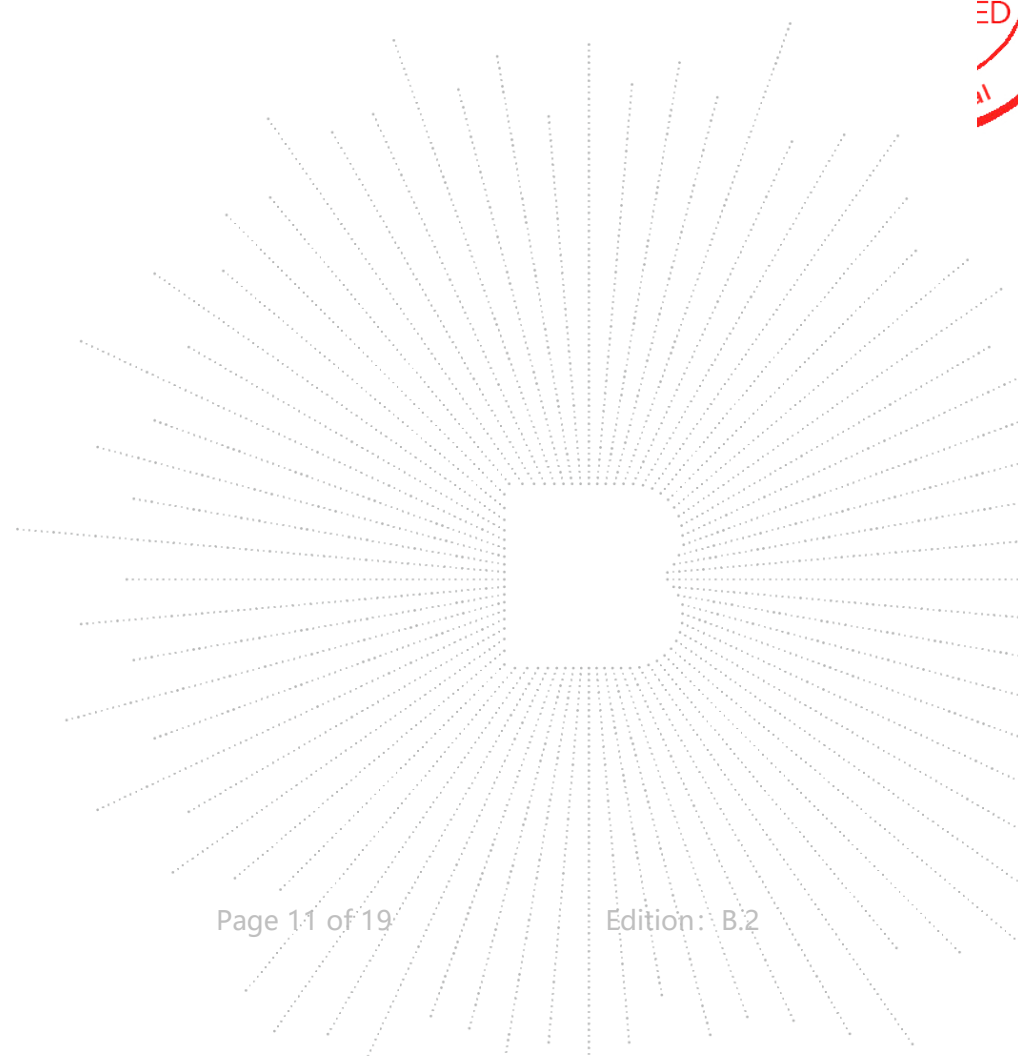
Mobile: Test Mode 2 (the worst mode)

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

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)
0.112-0.1485	0.0140	0.0071	0.0082	0.0097	0.0076	0.0060

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)
0.112-0.1485	0.0112	0.0057	0.0066	0.0077	0.0061	0.0048	0.815	1.63

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



Portable: Test Mode 4 (the worst mode)
 Transmitter Battery level: 100% battery

H-Filed Strength at (distance from 2cm 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	0.1384	0.1049	0.0926	0.1161	0.0560	0.0571
4	0.0538	0.0336	0.0338	0.0370	0.0225	0.0210
6	0.0239	0.0155	0.0160	0.0183	0.0121	0.0108
8	0.0179	0.0100	0.0104	0.0133	0.0080	0.0074
10	0.0178	0.0089	0.0100	0.0123	0.0069	0.0073
12	0.0171	0.0096	0.0101	0.0128	0.0078	0.0064
14	0.0167	0.0095	0.0105	0.0126	0.0078	0.0073
16	0.0171	0.0101	0.0099	0.0122	0.0073	0.0064
18	0.0177	0.0090	0.0105	0.0120	0.0072	0.0066
20	0.0177	0.0091	0.0095	0.0130	0.0071	0.0062

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	0.1107	0.0839	0.0741	0.0929	0.0448	0.0457	2
4	0.0430	0.0269	0.0270	0.0296	0.0180	0.0168	4
6	0.0191	0.0124	0.0128	0.0146	0.0097	0.0086	6
8	0.0143	0.0080	0.0083	0.0106	0.0064	0.0059	8
10	0.0142	0.0071	0.0080	0.0098	0.0055	0.0058	10
12	0.0137	0.0077	0.0081	0.0102	0.0062	0.0051	12
14	0.0134	0.0076	0.0084	0.0101	0.0062	0.0058	14
16	0.0137	0.0081	0.0079	0.0098	0.0058	0.0051	16
18	0.0142	0.0072	0.0084	0.0096	0.0058	0.0053	18
20	0.0142	0.0073	0.0076	0.0104	0.0057	0.0050	20

Note: $A/m = uT/1.25$



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

Distance: 2cm

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)
0.1433	0.0897	0.0900	0.0987	0.0545	0.0509	1.63

Agreement Ratio

Distance: 2cm

Transmitter Battery level: 100% battery						
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)	0.1107	0.0839	0.0741	0.0929	0.0448	0.0457
Valuation(A/m)	0.1433	0.0897	0.0900	0.0987	0.0545	0.0509
Agreement ratio	25.67	6.68	19.38	6.05	19.54	10.77
Limit	30%	30%	30%	30%	30%	30%
Test result	Pass	Pass	Pass	Pass	Pass	Pass

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

Distance: 4cm

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)
0.0450	0.0292	0.0302	0.0344	0.0206	0.0200	1.63

Agreement Ratio

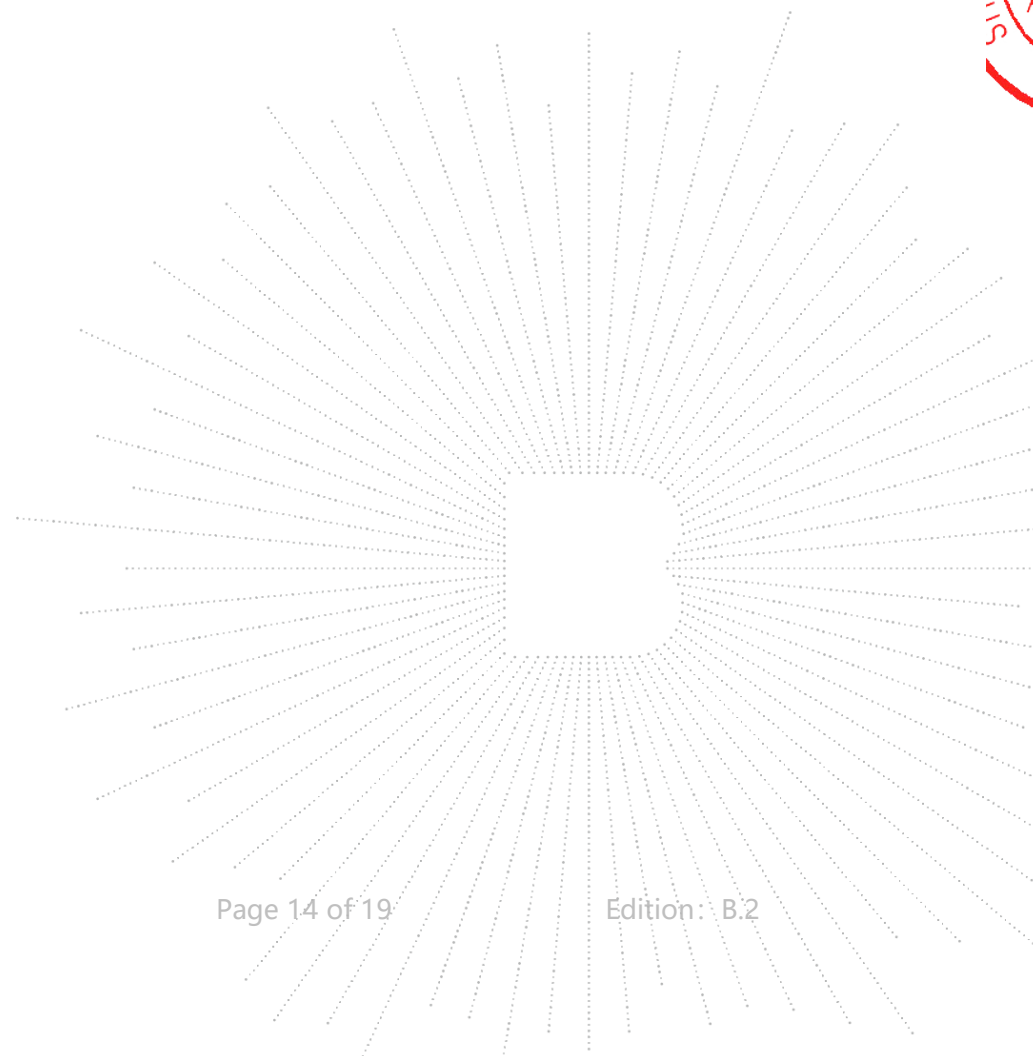
Distance: 4cm

Transmitter Battery level: 100% battery						
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)	0.0430	0.0269	0.0270	0.0296	0.0180	0.0168
Valuation(A/m)	0.0450	0.0292	0.0302	0.0344	0.0206	0.0200
Agreement ratio	4.55	8.20	11.19	15.00	13.47	17.39
Limit	30%	30%	30%	30%	30%	30%
Test result	Pass	Pass	Pass	Pass	Pass	Pass

As the model is sufficient, the value of 0cm can be estimated through the results of 2 cm

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

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)
0.8536	0.6469	0.5714	0.7163	0.1824	0.1861	1.63
Test result: Pass						



Portable: Test Mode 5 (the worst mode)
 Transmitter Battery level: 100% battery

H-Filed Strength at (distance from 2cm 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	0.1385	0.1031	0.0924	0.1170	0.0576	0.0580
4	0.0526	0.0318	0.0340	0.0388	0.0226	0.0235
6	0.0236	0.0136	0.0161	0.0208	0.0120	0.0133
8	0.0184	0.0078	0.0106	0.0148	0.0078	0.0096
10	0.0183	0.0068	0.0099	0.0138	0.0076	0.0086
12	0.0173	0.0071	0.0098	0.0135	0.0068	0.0095
14	0.0178	0.0078	0.0094	0.0140	0.0067	0.0087
16	0.0182	0.0073	0.0107	0.0142	0.0080	0.0094
18	0.0184	0.0073	0.0108	0.0139	0.0071	0.0090
20	0.0185	0.0073	0.0099	0.0143	0.0074	0.0090

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	0.1108	0.0825	0.0739	0.0936	0.0461	0.0464	1.63
4	0.0421	0.0254	0.0272	0.0310	0.0181	0.0188	1.63
6	0.0189	0.0109	0.0129	0.0166	0.0096	0.0106	1.63
8	0.0147	0.0062	0.0085	0.0118	0.0062	0.0077	1.63
10	0.0146	0.0054	0.0079	0.0110	0.0061	0.0069	1.63
12	0.0138	0.0057	0.0078	0.0108	0.0054	0.0076	1.63
14	0.0142	0.0062	0.0075	0.0112	0.0054	0.0070	1.63
16	0.0146	0.0058	0.0086	0.0114	0.0064	0.0075	1.63
18	0.0147	0.0058	0.0086	0.0111	0.0057	0.0072	1.63
20	0.0148	0.0058	0.0079	0.0114	0.0059	0.0072	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

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)
0.1403	0.0848	0.0907	0.1035	0.0548	0.0570	1.63

Agreement Ratio

Distance: 2cm

Transmitter Battery level: 100% battery						
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)	0.1108	0.0825	0.0739	0.0936	0.0461	0.0464
Valuation(A/m)	0.1403	0.0848	0.0907	0.1035	0.0548	0.0570
Agreement ratio	23.50	2.77	20.39	10.05	17.29	20.50
Limit	30%	30%	30%	30%	30%	30%
Test result	Pass	Pass	Pass	Pass	Pass	Pass

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

Distance: 4cm

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)
0.0445	0.0256	0.0303	0.0392	0.0223	0.0247	1.63

Agreement Ratio

Distance: 4cm

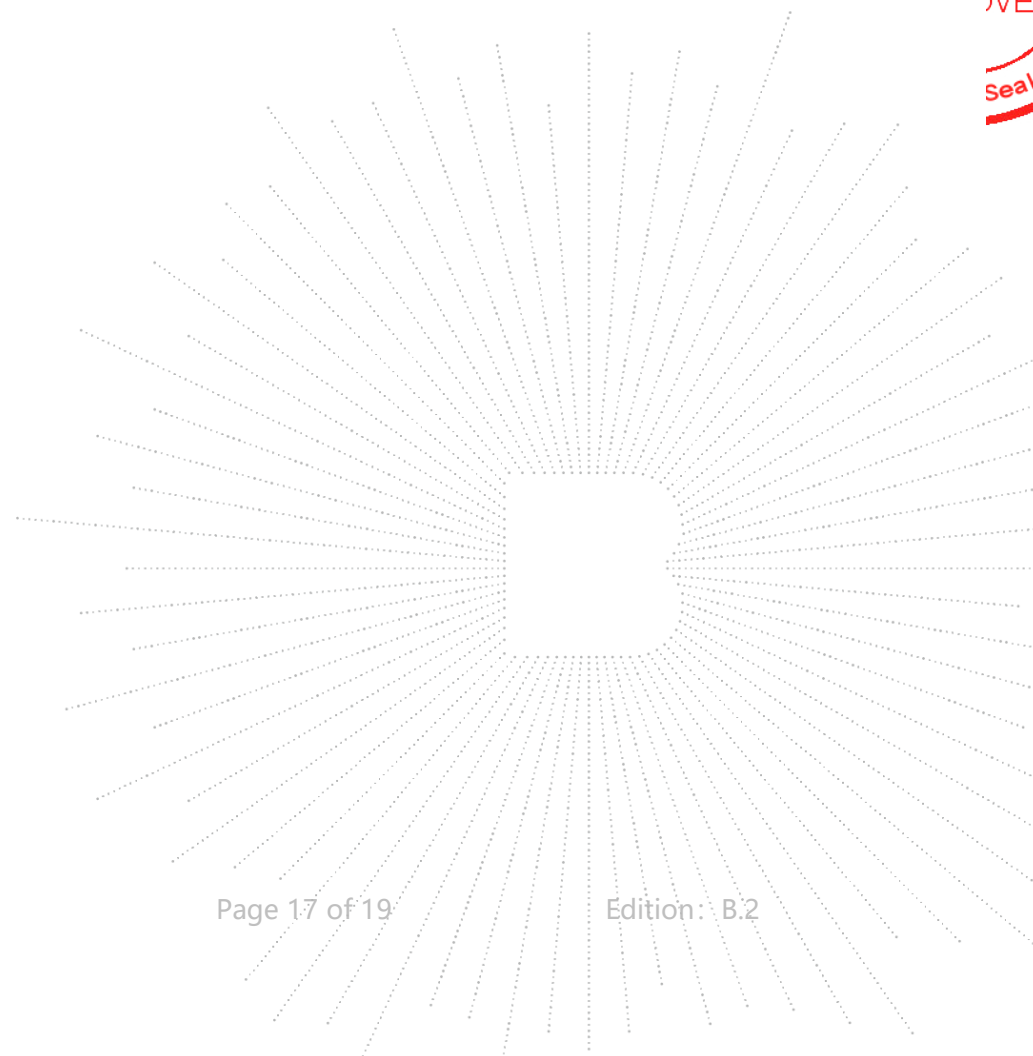
Transmitter Battery level: 100% battery						
Test Position	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)
Measure Value (A/m)	0.0421	0.0254	0.0272	0.0310	0.0181	0.0188
Valuation(A/m)	0.0445	0.0256	0.0303	0.0392	0.0223	0.0247
Agreement ratio	5.54	0.63	10.78	23.23	20.90	27.13
Limit	30%	30%	30%	30%	30%	30%
Test result	Pass	Pass	Pass	Pass	Pass	Pass

As the model is sufficient, the value of 0cm can be estimated through the results of 2 cm

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

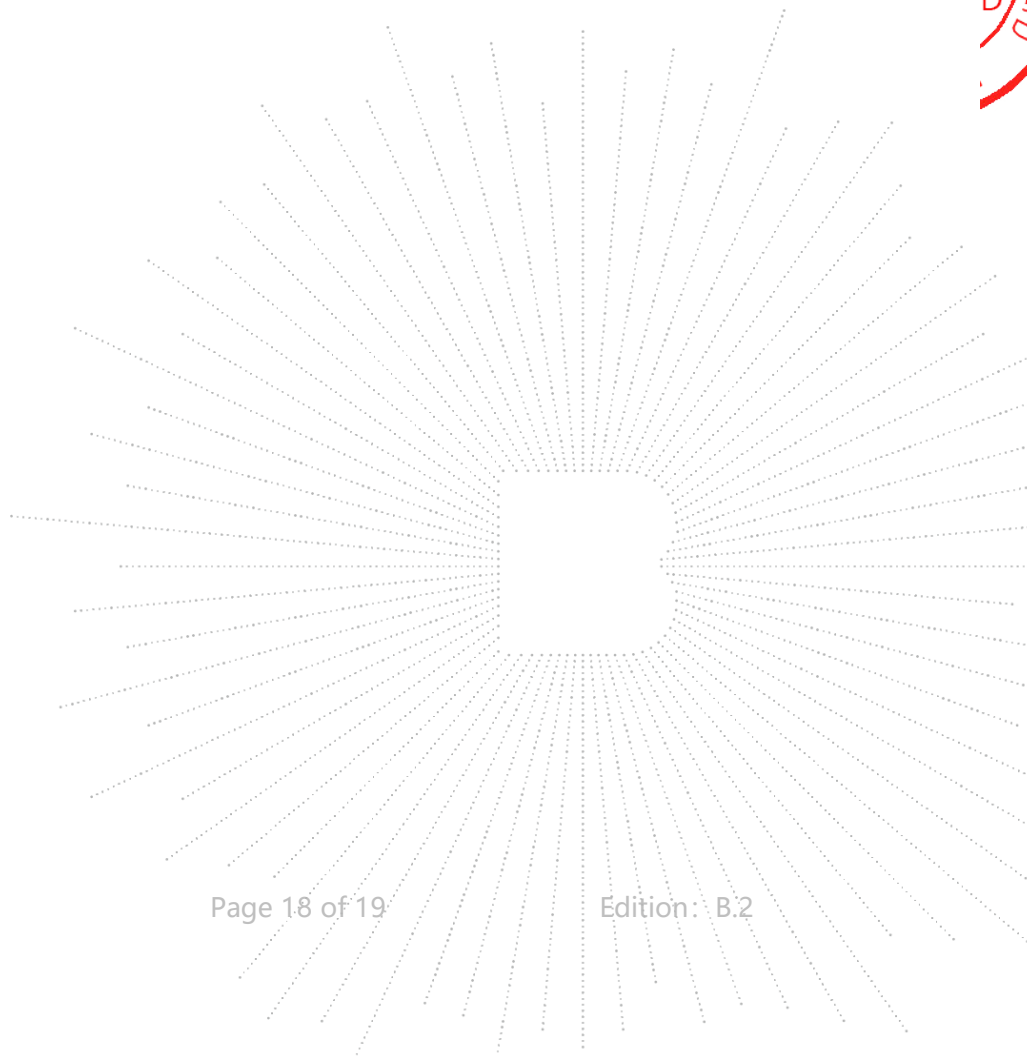
Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
0.8544	0.6360	0.5700	0.7217	0.1876	0.1889	1.63
Test result: Pass						

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5. Photographs Of Test Set-Up

NOTE: Appendix-Test Photos



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

TEL: 400-788-9558

P.C.: 518103

FAX: 0755-33229357

Website: <http://www.chnbctc.com>

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Complaint/Advice E-mail: advice@bctc-lab.com.cn

***** END *****