RF EXPOSURE REPORT

Product Name:	Wireless Charging Circuit Board
FCC ID:	2A7X2SY-WXC-001
Trademark:	N/A
Model Number:	SY-WXC-001
Prepared For:	Huizhou Shunyi Technology Co., Ltd.
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Manufacturer:	Huizhou Shunyi Technology Co., Ltd.
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Sample Received Date:	Jul. 04, 2022
Sample tested Date:	Jul.04, 2022 to Jul. 12, 2022
Issue Date:	Jul. 12, 2022
Report No.:	CTB220712002RFX
Test Standards	FCC CFR 47 part1, 1.1307(b), 1.1310, 47 CFR§2.1091; KDB 680106 D01 RF Exposure Wireless Charging App v03r01
Test Results	PASS
Remark:	This is wireless charger EMF report.

Compiled by:	Reviewed by:	Approved by:
Arron Liu	Bin Mei	Rita Xiao / Director

Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. 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 CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab. "#" indicates the items are not in CNAS accreditation scope.

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1. GENERAL INFORMATION

1.1. Independent Operation Mode

The basic operation mode is:

1.1.1. wireless charger power: 15W

1.2. Test Supporting System

Adapter
Description : Adapter
Model No. : HP18A-0902000-AU
Power Input : AC100-240V~ 1.0A 50/60Hz
Output: 9V⎓ 2.0A
DC Line : Unshielded, Detachable 1.2m

2.LIST OF TEST AND MEASUREMENT INSTRUMENTS

2.1. For conducted emission at the mains terminals test

Item	Equipment	Brand	Model No.	Frequency Range	Last calibration	Calibrated until
1	Broadband Field Meter	NARDA	NBM-550	-	2021.09.27	2022.08.05
2	Magnetic Field Meter	NARDA	ELT-400	1 – 400kHz	2021.09.27	2022.08.05
3	Magnetic Probe	NARDA	HF-3061	300kHz – 30MHz	2021.09.27	2022.08.05
4	Magnetic Probe	NARDA	HF-0191	27 – 1000MHz	2021.09.27	2022.08.05
5	Broadband Field Meter	NARDA	NBM-550	-	2021.09.27	2022.08.05
6	Electric Field Meter	COMBINOVA	EFM 200	5Hz – 400kHz	2021.09.27	2022.08.05
7	E-Field Probe	NARDA	EF-0391	100kHz – 3GHz	2021.09.27	2022.08.05
8	E-Field Probe	NARDA	EF-6091	100MHz – 60GHz	2021.09.27	2022.08.05

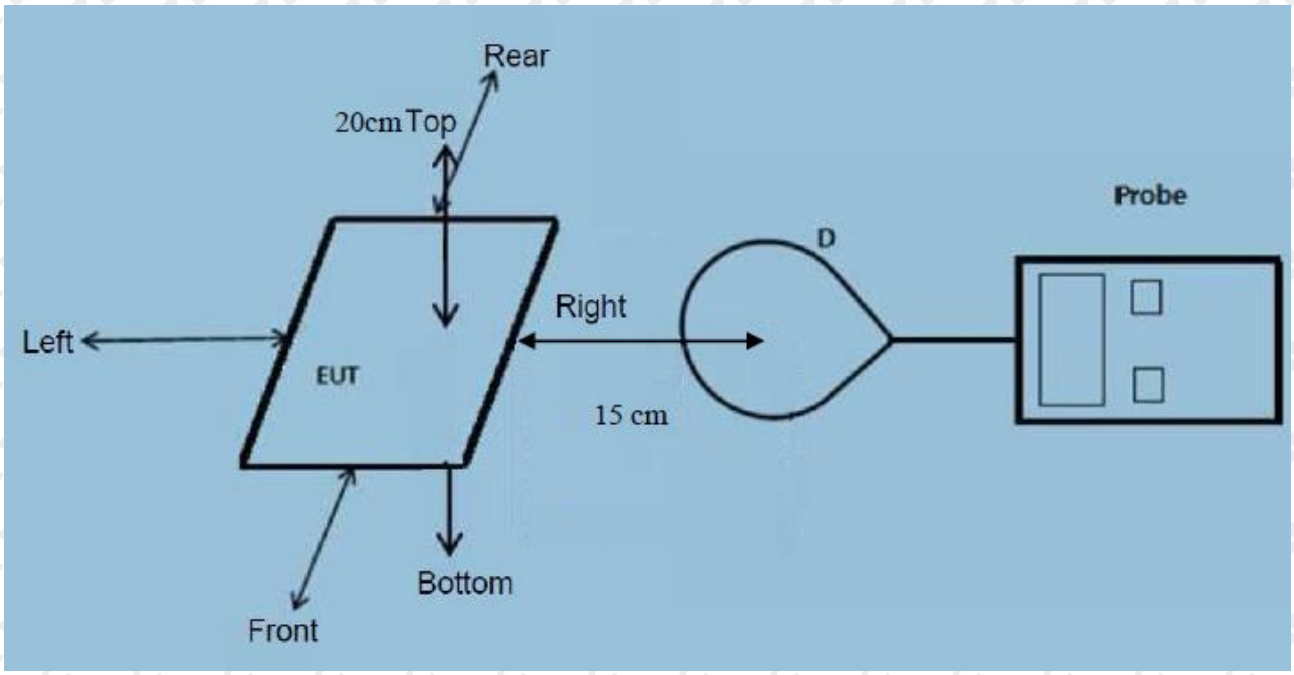
3. METHOD OF MEASUREMENT

3. 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 D01: RF Exposure Wireless Charging Apps v 03r01.

4. TEST RESULT

4.1. Conducted Emission at the Mains Terminals Test



Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

Test Procedure:

a) The RF exposure test was performed on 360 degree turn table in anechoic chamber.
b) The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
c) The turn table was rotated 360d degree to search of highest strength.
d) The highest emission level was recorded and compared with limit as soon as measurement of each points were completed.
e) The EUT were measured according to the dictates of KDB 680106v03r01.

4.2. Equipment Approval Considerations:

The EUT does comply with item 5(b) of KDB 680106 V03R01

1) Power transfer frequency is less than 1MHz

Yes, the device operate in the frequency range from 110KHz to 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 15000mW.

3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that able to detect and allow coupling onlybetween individual pair of coils.

Yes, the transfer system includes only single primary and one coils.

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).

Yes, the EUT is a Mobile Wireless Charger

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, the EUT field strength levels are less 50% x MPE limit.

4.3. E and H field Strength

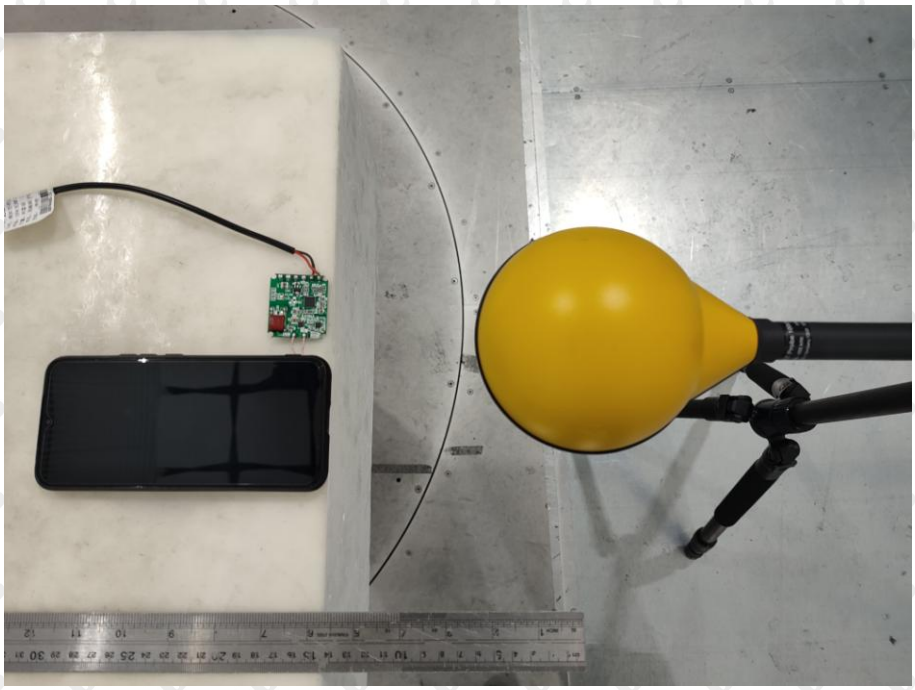
E-Field Strength at 15 cm surrounding the EUT and for above the top surface of the EUT，15cm and 20cm all have been tested, only worse case 15cm is reported.

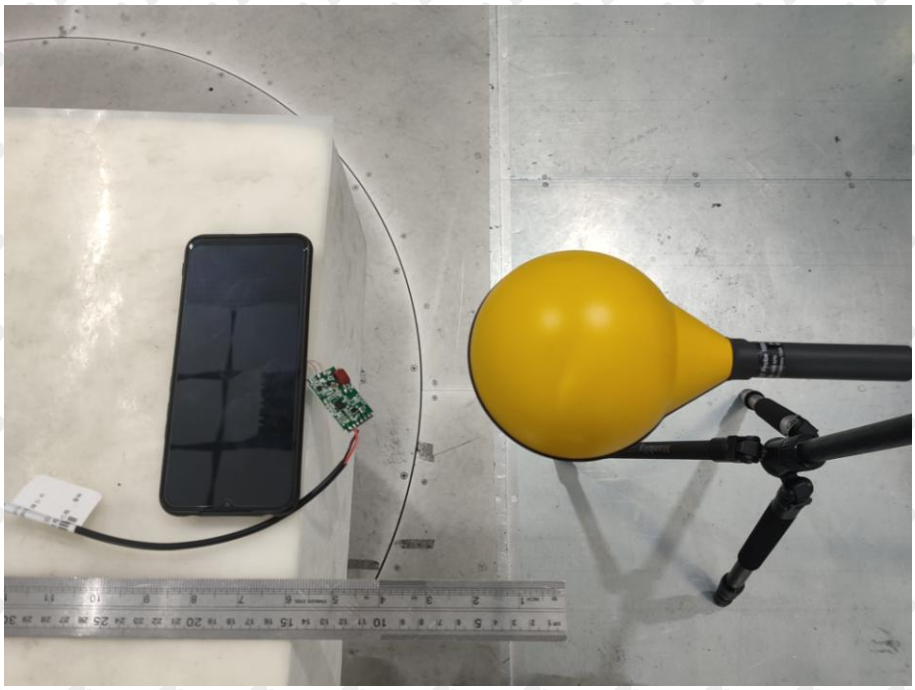
battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Limits Test (V/m)
1%	160	8.02	7.44	7.57	8.10	7.97	614
50%	160	7.75	7.47	7.31	7.99	7.66	614
99%	160	7.68	7.54	7.24	7.83	7.41	614

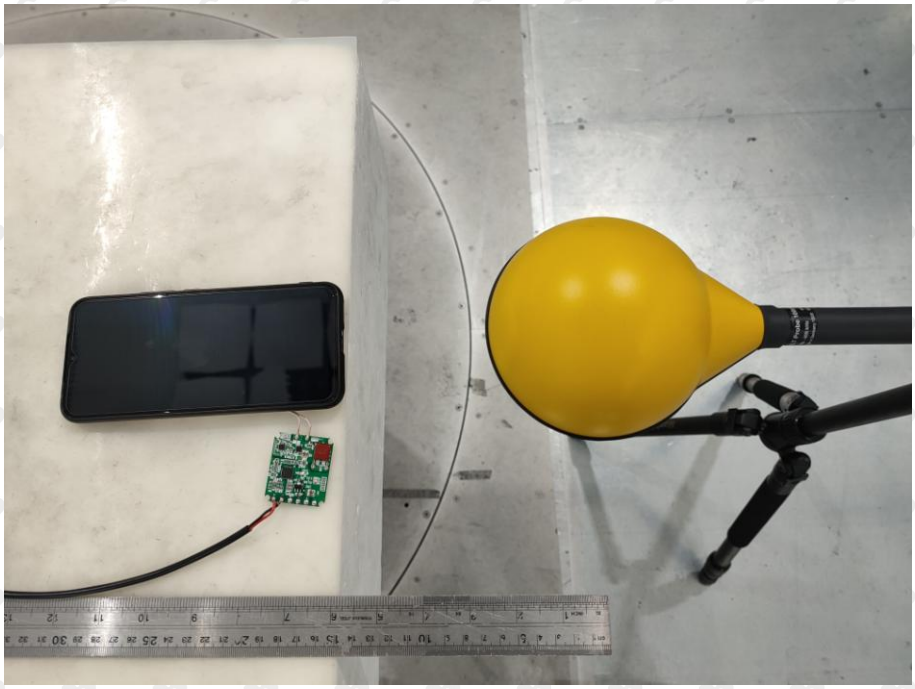
H-Field Strength at 15 cm surrounding the EUT and for above the top surface of the EUT, 15cm and 20cm all have been tested, only worse case 15cm is reported.

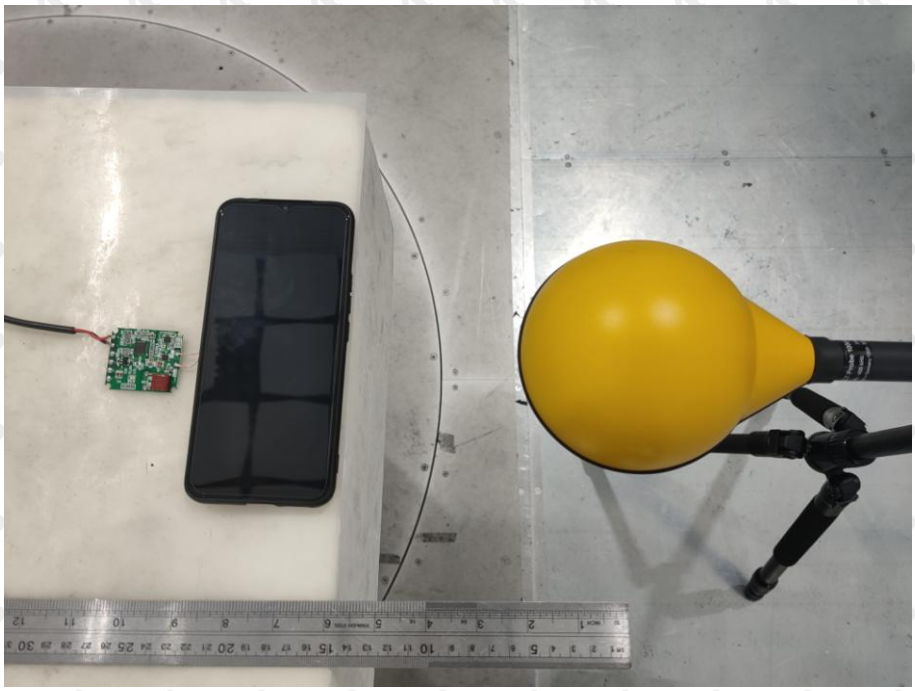
battery level	Frequency Range (kHz)	Test Position Right	Test Position Front	Test Position Rear	Test Position Left	Test Position Top	Limits Test (A/m)
1%	160	0.21	0.26	0.23	0.24	0.27	1.63
50%	160	0.15	0.13	0.12	0.23	0.25	1.63
99%	160	0.03	0.10	0.04	0.15	0.26	1.63

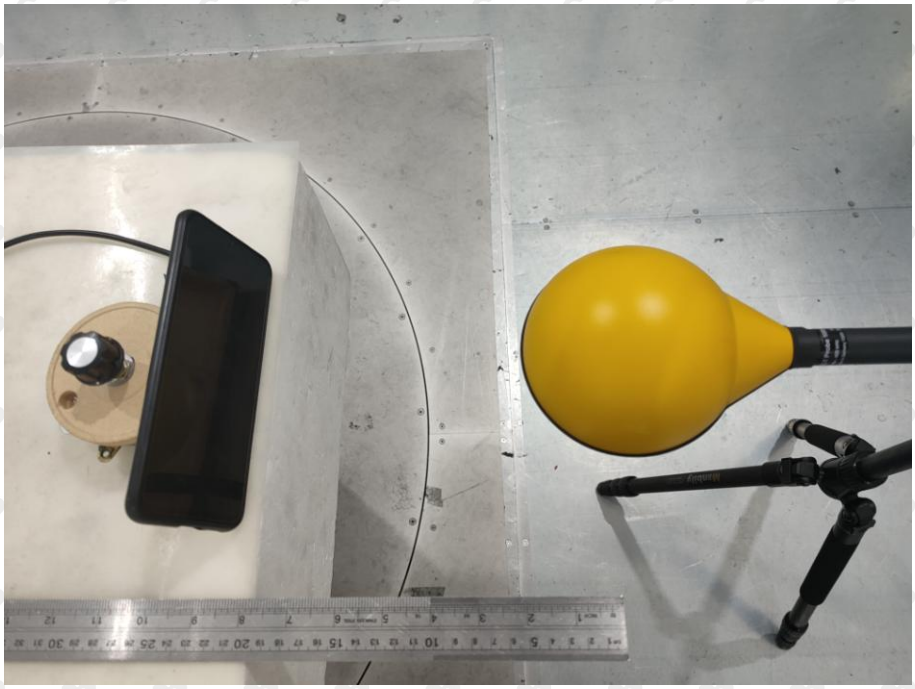
5. Test Photos











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