FCC TEST REPORT

FCC ID: 2BHAO-6138

On Behalf of

NINGBO LONGMARCH IMPORT&EXPORT CO.,LTD

Speaker Charging Lamp

Model No.: 6138

Prepared for	:	NINGBO LONGMARCH IMPORT&EXPORT CO.,LTD
Address	:	ROOM 1505, 15TH FLOOR, BUILDING 3, YUNHUI CENTER, NO. 299 TONGJI ROAD, JIANGBEI DISTRICT, NINGBO, CHINA

Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.
Address	:	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

Report Number	:	A2407023-C01-R01
Date of Receipt	:	July 9, 2024
Date of Test	:	July 9, 2024 – July 10, 2024
Date of Report	:	July 10, 2024
Version Number	:	V0
Test Result	:	**Pass**

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TEST REPORT DECLARATION

Applicant	:	NINGBO LONGMARCH IMPORT&EXPORT CO.,LTD
Address	:	ROOM 1505, 15TH FLOOR, BUILDING 3, YUNHUI CENTER, NO. 299 TONGJI ROAD, JIANGBEI DISTRICT, NINGBO, CHINA
Manufacturer	:	NINGBO LONGMARCH IMPORT&EXPORT CO.,LTD
Address	:	ROOM 1505, 15TH FLOOR, BUILDING 3, YUNHUI CENTER, NO. 299 TONGJI ROAD, JIANGBEI DISTRICT, NINGBO, CHINA
EUT Description	:	Speaker Charging Lamp

    (A)   Model No.   :   6138

    (B)   Trademark   :   BELL+HOWELL

Measurement Standard Used:

FCC CFR Title 47 Part 15 Subpart C

FCC KDB 680106 D01 Wireless Transfer v04

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed full responsibility for the accuracy and completeness test. Also, this report shows that the EUT is technically compliant with the KDB 680106 D01 requirements.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature)............:   Yannis Wen
Project Engineer

Approved by (name + signature)….....:   Jack Xu
Project Manager

Date of issue…… …………………..:   July 10, 2024

Revision History

Revision	Issue Date	Revisions	Revised By
V0	July 10, 2024	Initial released Issue	Yannis Wen

1   Test Result Summary

Requirement	CFR 47 Section	Result
RF EXPOSURE	§1.1307(b)(1) & KDB680106	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

2   EUT Description

2.1   Description of Device (EUT)

|		
EUT Name	:	Speaker Charging Lamp
Model No.	:	6138
DIFF.	:	N/A
Power supply	:	DC 5V/9V/12V from adapter
EUT information	:	Input: 5V ⎓ 2A Wireless Output: 5W
Operation frequency	:	115~205KHz
Modulation	:	MSK
Antenna Type	:	Coil Antenna, Maximum Gain is -0.68dBi (This value is supplied by applicant).
Software version	:	V1.0
Hardware version	:	V1.0
Connector cable loss	:	Max. coaxial cable loss:0.5dB (Cable lossvalue is provided by applicant.)
Intend use environment	:	Residential, commercial and light industrial environment

2.2   Accessories of Device (EUT)

Accessories1   :   Cable

Manufacturer   :   NINGBO LONGMARCH IMPORT&EXPORT CO.,LTD

Model   :   /

Ratings   :   /

2.3   Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification
1	Smart phone	Apple	iPhone X	--	--

2.4   Block Diagram of Connection between EUT and Simulators
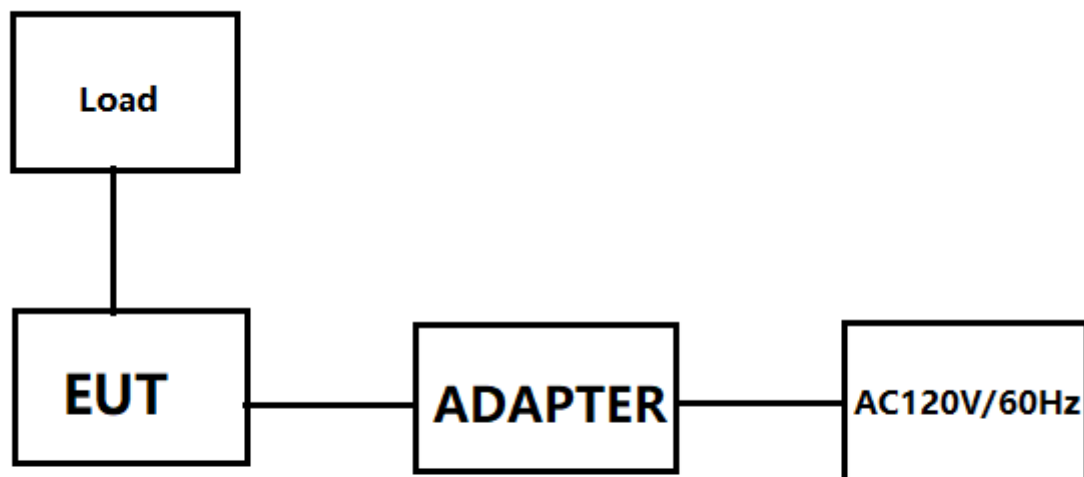
2.5   Description of Test Modes

Channel	Frequency (KHz)
1	128

2.6   Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7 Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 15, 2019 Certificated by IC
Registration Number: 12135A
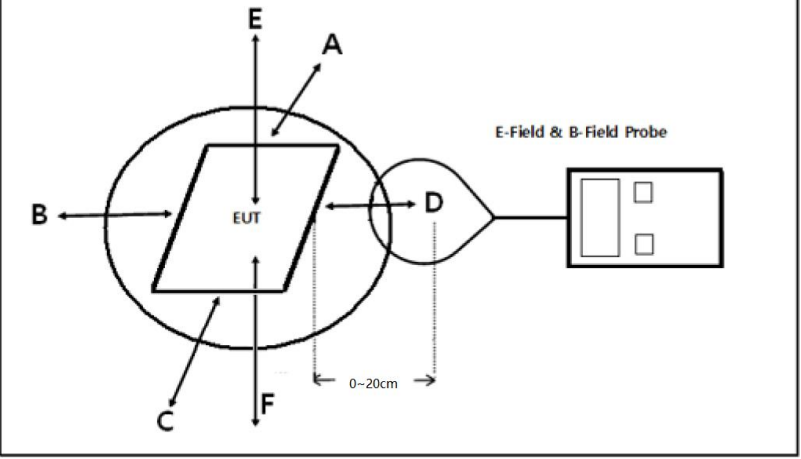

2.8 Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for H-Field	2.39dB
Uncertainty for E-Field	2.45dB
Uncertainty for conducted RF Power	0.65dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3 Test Results and Measurement Data

3.1 RF Exposure Test

3.1.1 Test Specification

Test Requirement:	FCC Rules and Regulations KDB680106
Test Method:	§1.1307(b)(1) & KDB680106
Limits:	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 D01v03r01: RF Exposure Wireless Charging.
Test Setup:	
Test Mode:	Wireless charging load has been charge at no load, middle load and full load. All test modes were pre-tested, but we only recorded the worse case in this report.
Test Procedure:	1. The RF exposure test was performed in shielded chamber 2. The measurement probe was placed at test distance(0~20cm) , step by 2cm, which is between the edge of the charger and the geometric centre of probe. 3. The measurement probe used to search of highest strength. 4. 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. 5. The EUT were measured according to the dictates of KDB 680106 D01 Wireless Transfer v04.
Test Result:	PASS

3.1.2 Test Instruments

Item	Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal Interval
1	Exposure Level Tester	narda	ELT-400	/	N-0231	2023.08.22	1Year
2	Magnetic field probe 100cm2	narda	ELT probe 100cm2	/	M0675	2023.08.22	1Year
3	Isotropic Electric Field Probe	narda	EP-601	/	511WX60706	2023.08.16	1Year

3.1.3 Test data

For Wireless output (5W) mode:
E-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.115-0.205	1.918	1.930	1.904	1.839	1.749	307	614

H-Filed Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.115-0.205	0.733	0.792	0.696	0.694	0.675	0.815	1.63

For Null load mode:
E-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.115-0.205	1.108	1.114	1.100	1.065	1.012	307	614

H-Filed Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (A/m)

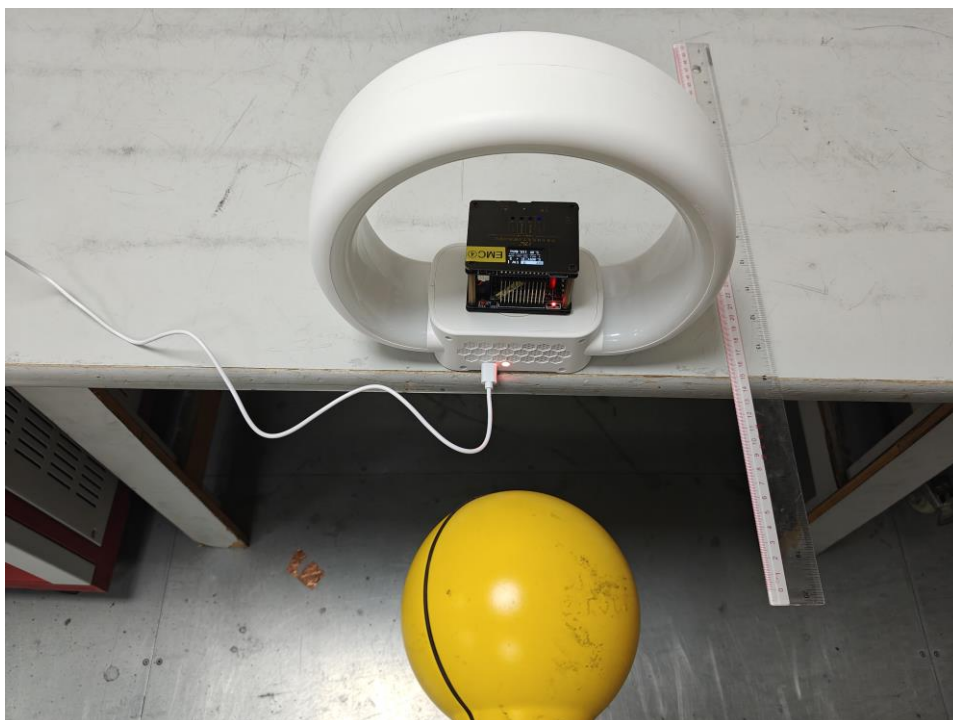| Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Limit (50%) (A/m)	Limits Test (A/m)
0.115-0.205	0.607	0.611	0.594	0.590	0.590	0.815	1.63

4 Photos of test setup
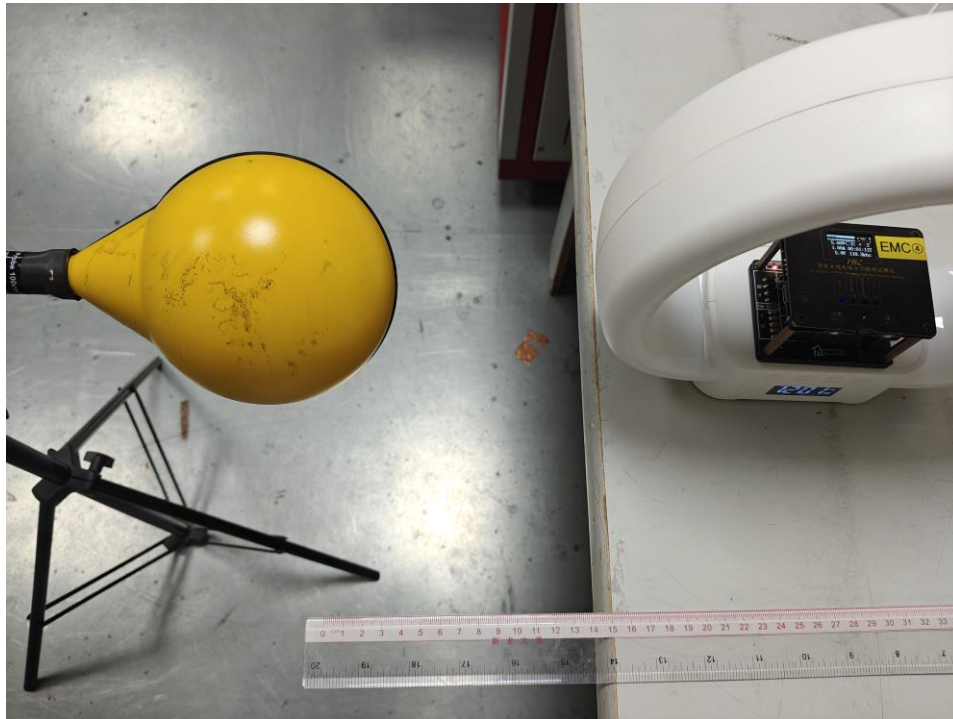
For Full load mode
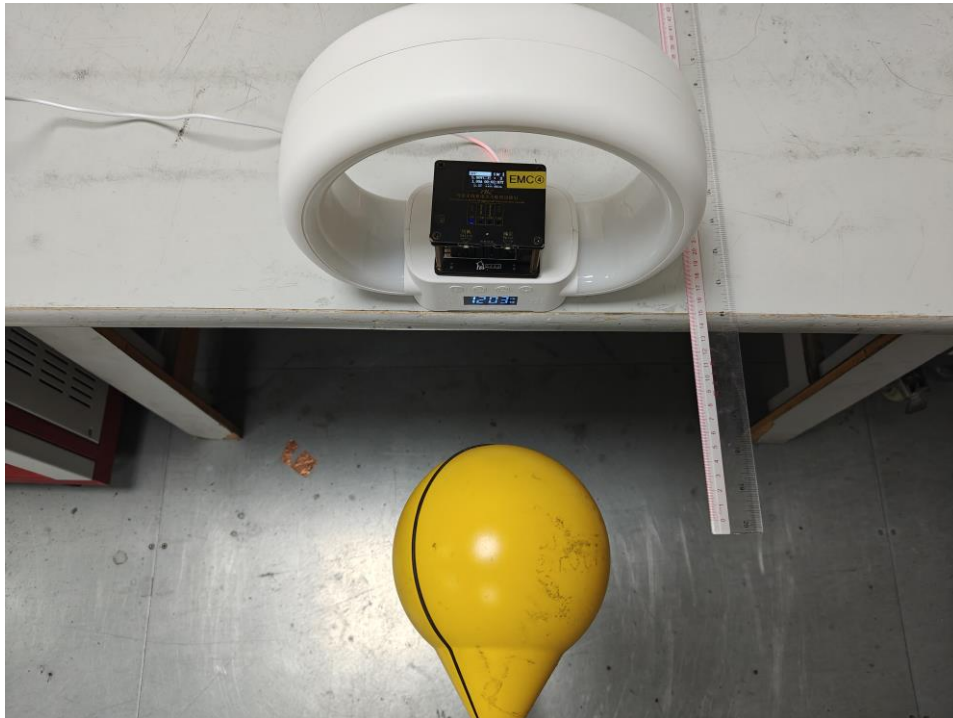
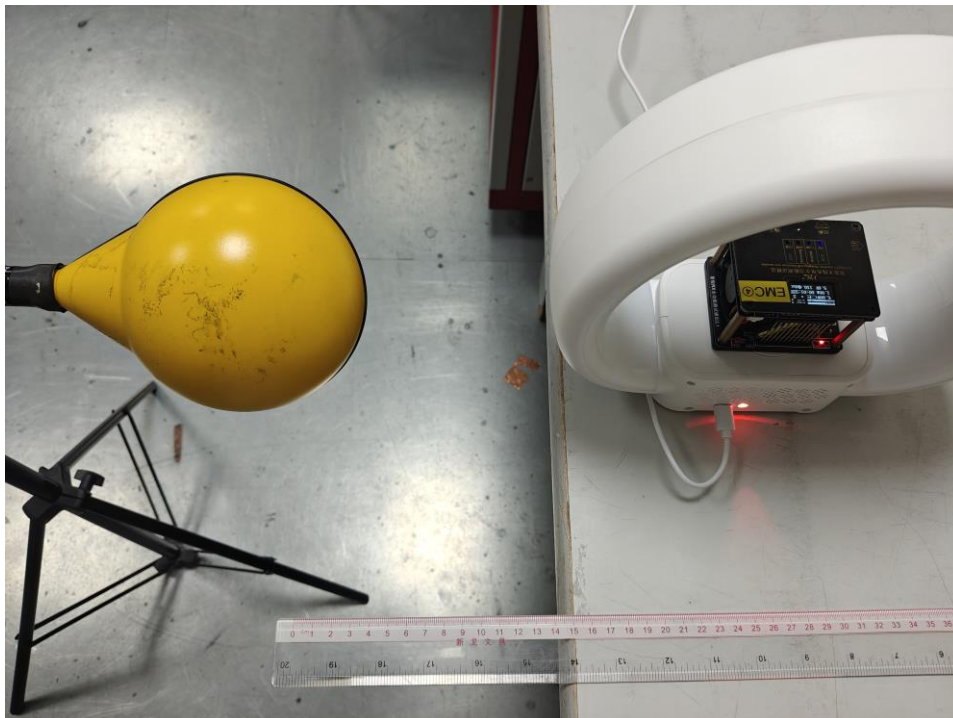
15cm A Position

For Full load mode

15cm B Position

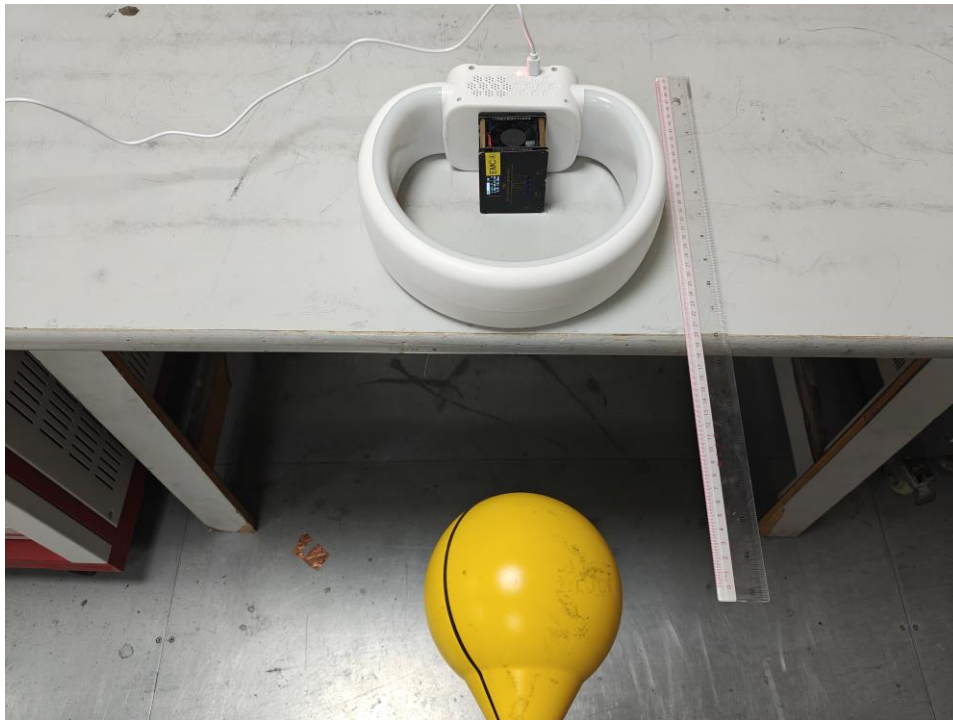For Full load mode

15cm C Position

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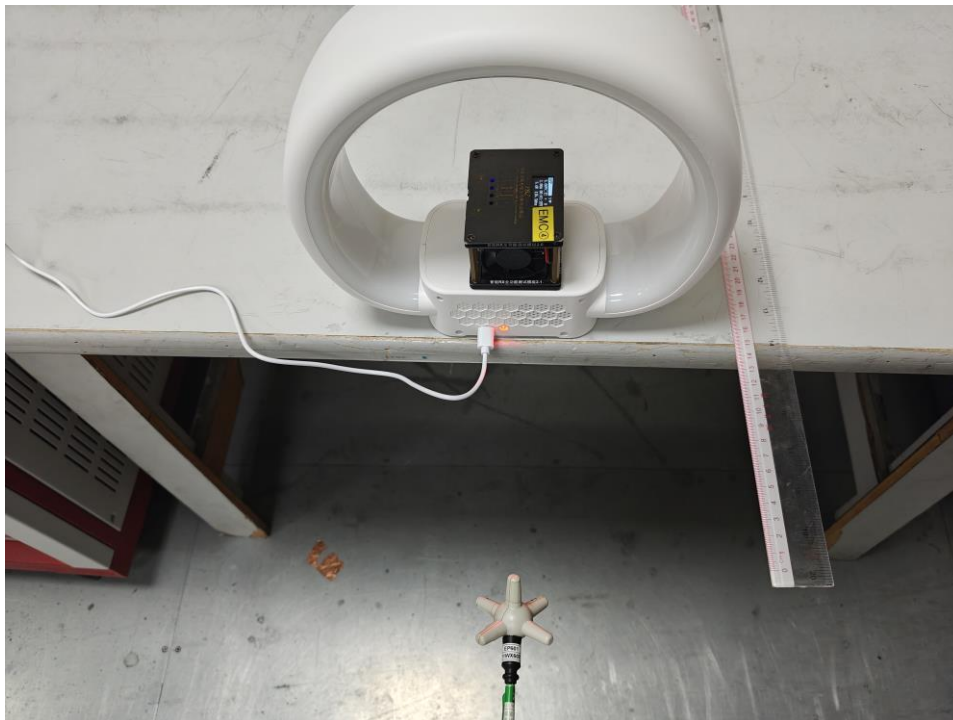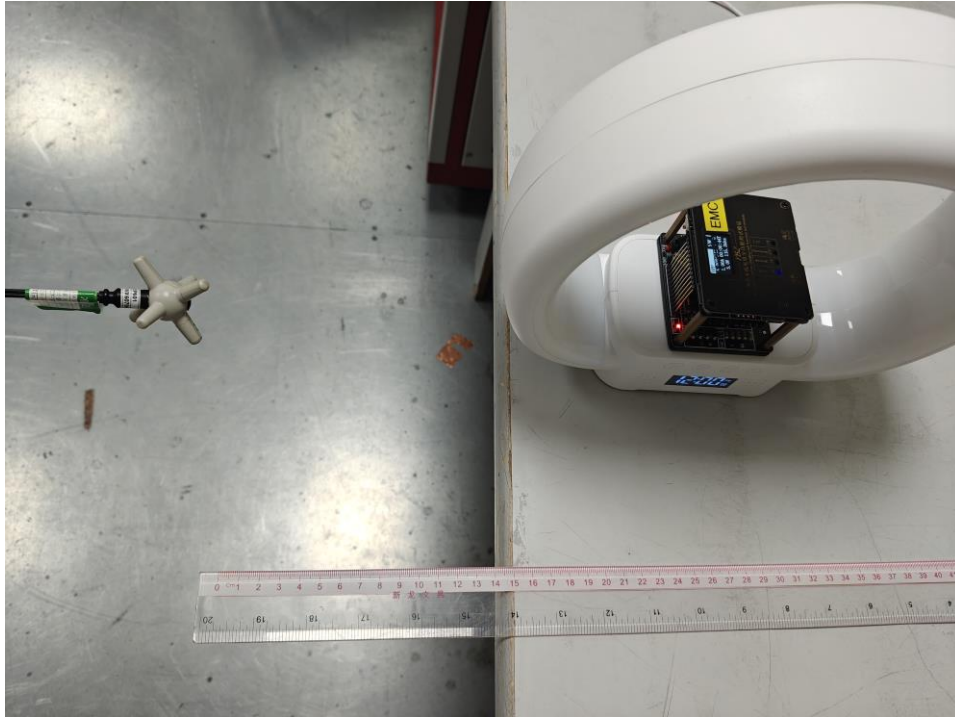

15cm D Position

For Full load mode

20cm E Position

For Full load mode

15cm A Position

For Full load mode

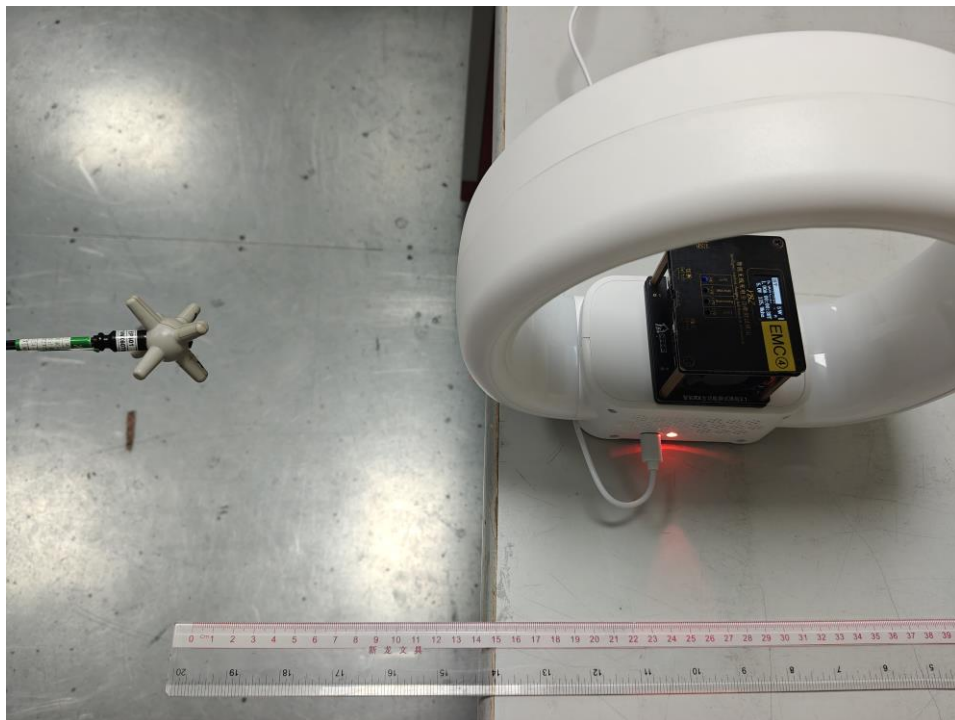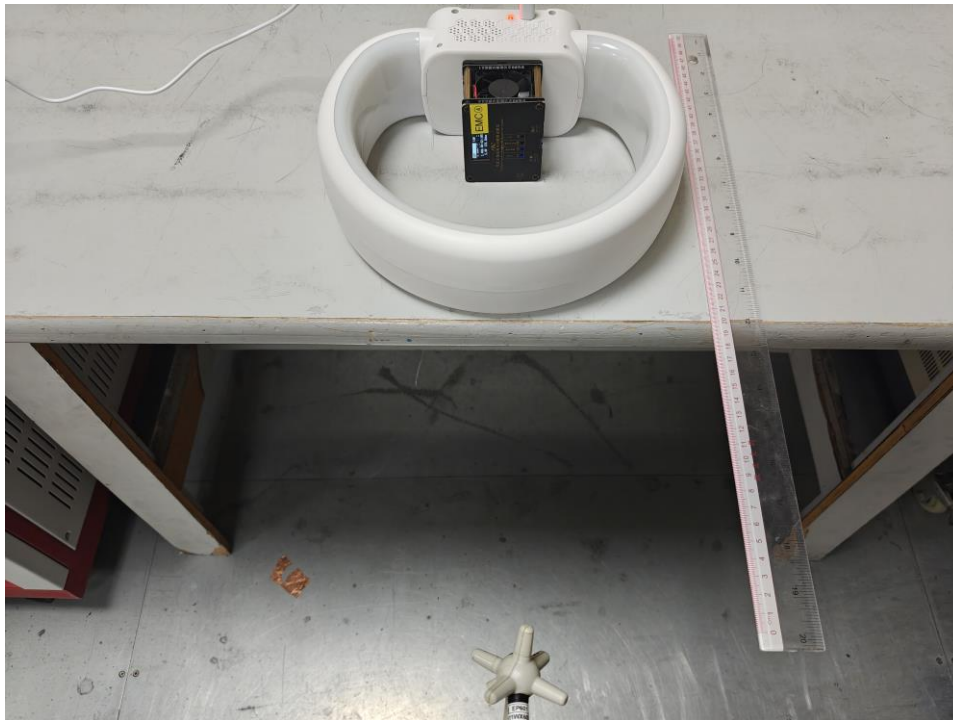15cm B Position

For Full load mode

15cm C Position

For Full load mode

15cm D Position

For Full load mode

20cm E Position

------End of Report-----