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RF Exposure Evaluation Report

Report No.: CQASZ20230801485E-02
Applicant: Shenzhen Baseus Technology Co., Ltd.
Address of Applicant: 2nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.
Equipment Under Test (EUT):
Product: Power Bank
Model No.: PPCXM10T
Test Model No.: PPCXM10T
Brand Name: **baseus**
FCC ID: 2A482-PPCXM10T
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB 680106 D01 RF Exposure Wireless Charging Base App v03r01
Date of Receipt: 2023-8-15
Date of Test: 2023-8-15 to 2023-8-22
Date of Issue: 2023-8-29
Test Result : **PASS***

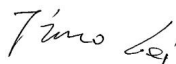
*In the configuration tested, the EUT complied with the standards specified above

Tested By:



(Joe Wang)

Reviewed By:



(Timo Lei)

Approved By:



(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20230801485E-02	Rev.01	Initial report	2023-8-29

2 Contents

	Page
1 VERSION	2
2 CONTENTS	3
.....	3
3 GENERAL INFORMATION	4
3.1 CLIENT INFORMATION	4
3.2 GENERAL DESCRIPTION OF EUT	4
3.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	4
3.4 TEST ENVIRONMENT	5
3.5 DESCRIPTION OF SUPPORT UNITS	5
3.6 TEST LOCATION	6
3.7 TEST FACILITY	6
3.8 EQUIPMENT LIST	6
4 RF EXPOSURE EVALUATION	7
4.1 RF EXPOSURE COMPLIANCE REQUIREMENT	7
4.1.1 <i>Limits</i>	7
4.1.2 <i>Test Procedure</i>	7
4.1.3 <i>Test Setup</i>	8
4.1.4 <i>Test Results</i>	9
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	16

3 General Information

3.1 Client Information

Applicant:	Shenzhen Baseus Technology Co., Ltd.
Address of Applicant:	2 nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.
Manufacturer:	Shenzhen Baseus Technology Co., Ltd.
Address of Manufacturer:	2 nd Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen.
Factory:	Shenzhen Hasmine Technology Co., Ltd
Address of Factory:	Floor 2 , Building 8, Haomai High-tech park,Huating Road.Dalang street,Longhua new district,Shenzhen,Guangdong

3.2 General Description of EUT

Product Name:	Power Bank
Model No.:	PPCXM10T
Test Model No.:	PPCXM10T
Brand Name:	baseus
Software Version:	V1.3
Hardware Version:	V1.2
EUT Power Supply:	Li-ion battery 10000mAh/38.5Wh, Charge by DC 5V for adapter

3.3 Product Specification subjective to this standard

Equipment Category:	Non-ISM frequency
Operation Frequency range:	112~148KHz
Modulation Type:	Induction
Antenna Type:	Induction coil
Antenna Gain:	0dBi

Note:

1. In section 15.31(m), regards to the operating frequency range less 1 MHz.

3.4 Test Environment

Operating Environment:	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar
Test Mode:	
Mode a:	Keep the EUT Wireless Out Put 5W
Mode b:	Keep the EUT Wireless Out Put 7.5W
Mode c:	Keep the EUT Wireless Out Put 10W
Mode d:	Keep the EUT Wireless Out Put 15W (Max)
Note: The above test modes all include full load, empty load, and half load, The worst-case state reflected in this report is the fully loaded state	

3.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	/	LPL-C010050200Z	/	CQA
Wireless charge load	/	/	/	CQA

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

3.6 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

3.7 Test Facility

• **A2LA (Certificate No. 4742.01)**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• **FCC Registration No.: 522263**

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

3.8 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM-520	SB9873	2022/9/9	2023/9/8
Magnetic field probe	HIOKI	3470	SB9058/04	2022/9/9	2023/9/8
E-field probe	Narda	EF0391	SB9059	2022/9/9	2023/9/8

4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density

Note 2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03

Note 3: Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

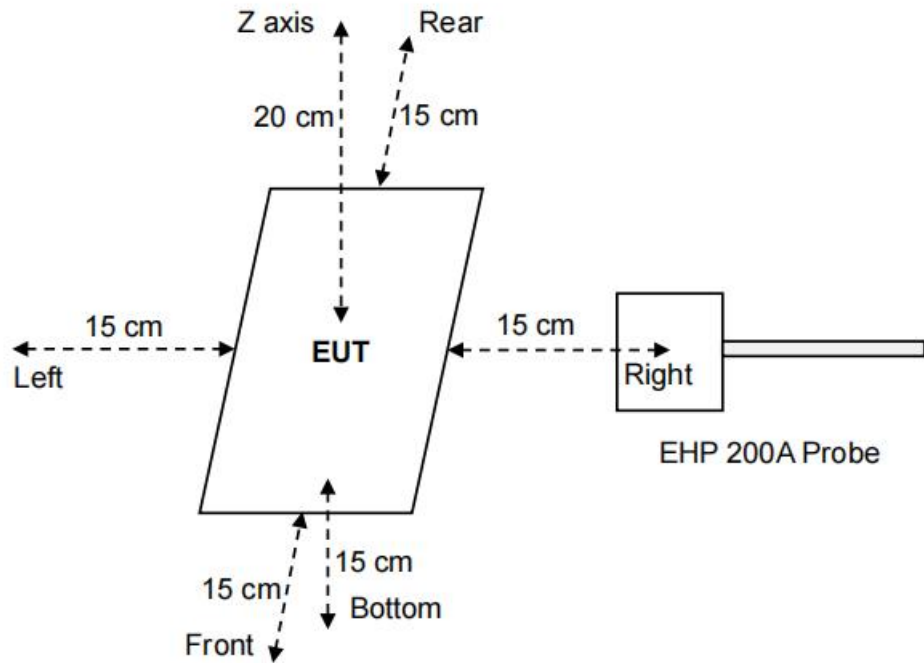
Note 4: The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit .

4.1.2 Test Procedure

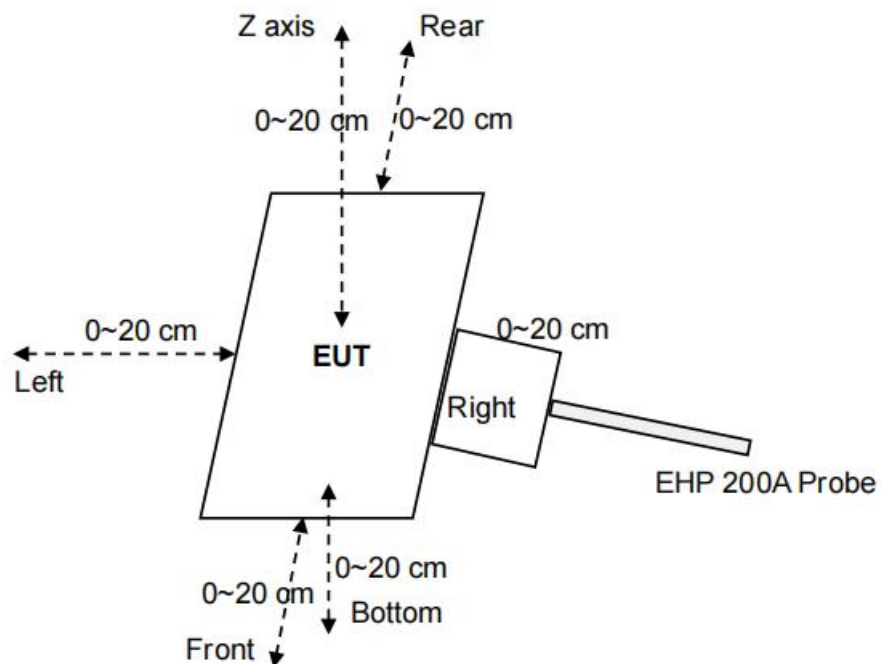
For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm(Top) and 15cm(Edge). E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 20 cm(Top) and 15cm(Edge) measured from the center of the probe(s) to the edge of the device.

4.1.3 Test Setup

For mobile exposure conditions:



For portable exposure conditions:



Note: Perform H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting

from as close as possible out to 20 cm

4.1.4 Test Results

The EUT does comply with item 5 KDB680106 D01 v03r01.

(1) Power transfer frequency is less than 1 MHz.

(Conform)

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

(Conform)

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

(Conform)

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

(Conform)

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

(No. The EUT has portable exposure condition)

(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.

(Conform)

(7) the H-field measurements for each edge/top surface of the host/client pair at every 2 cm, starting from as close as possible out to 20 cm were also evaluated for portable use condition.

Test condition: Mode d

H-field strength test result:

test distance: 0cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.7725	1.63	76.3%
	Left	0.8355		
	Right	0.7444		
	Front	0.4840		
	Rear	1.2429		
	Bottom	0.8869		

test distance: 2cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.5814	1.63	73.7%
	Left	0.7299		
	Right	0.5381		
	Front	0.3152		
	Rear	1.2005		
	Bottom	0.7570		

test distance: 4cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.1245	1.63	59.8%
	Left	0.2247		
	Right	0.1548		
	Front	0.0907		
	Rear	0.9752		
	Bottom	0.5018		

test distance: 6cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.1003	1.63	45.7%
	Left	0.1951		
	Right	0.1329		
	Front	0.0709		
	Rear	0.7445		
	Bottom	0.2435		

test distance: 8cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0765	1.63	28.4%
	Left	0.0876		
	Right	0.0742		
	Front	0.0743		
	Rear	0.4632		
	Bottom	0.0789		

test distance: 10cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0833	1.63	26.0%
	Left	0.0832		
	Right	0.0503		
	Front	0.0402		
	Rear	0.4239		
	Bottom	0.0828		

test distance: 12cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0495	1.63	4.59%
	Left	0.0377		
	Right	0.0541		
	Front	0.0602		
	Rear	0.0748		
	Bottom	0.0509		

test distance: 14cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0489	1.63	2.75%
	Left	0.0395		
	Right	0.0441		
	Front	0.0379		
	Rear	0.0449		
	Bottom	0.0534		

test distance: 16cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0512	1.63	2.73%
	Left	0.0403		
	Right	0.0401		
	Front	0.0435		
	Rear	0.0445		
	Bottom	0.0411		

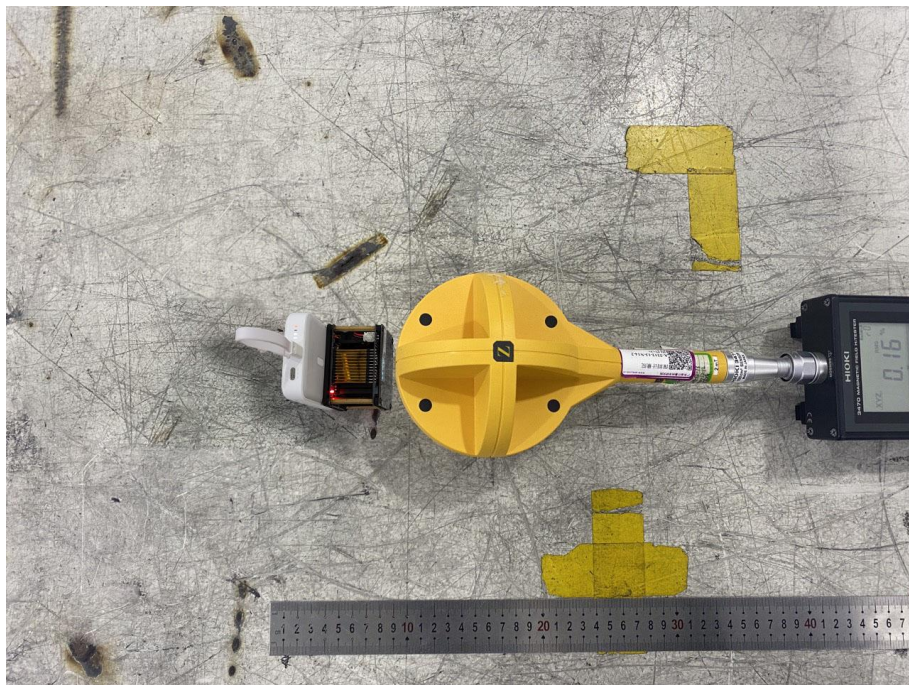
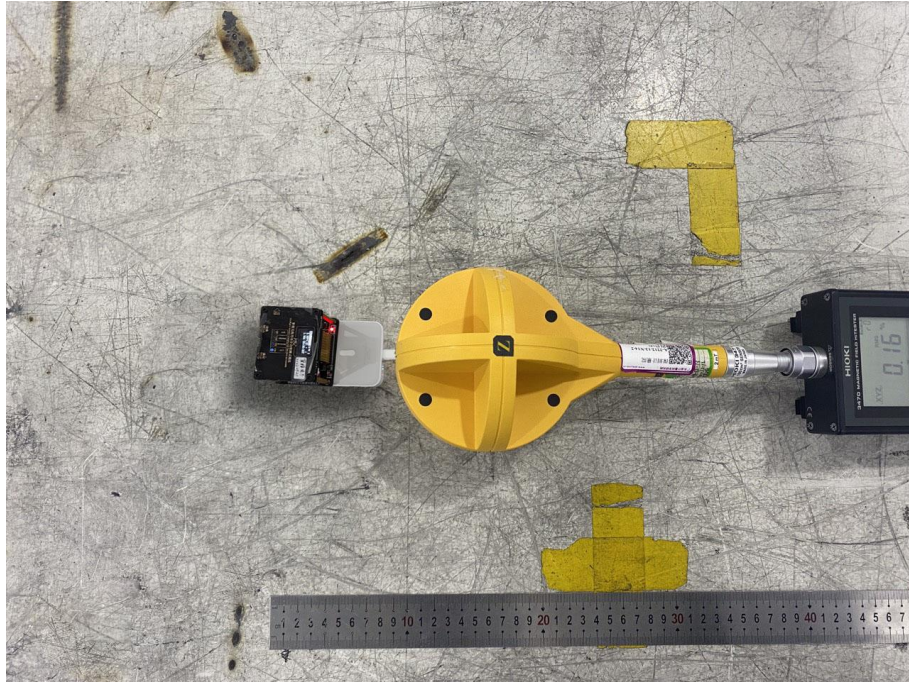
test distance: 18cm

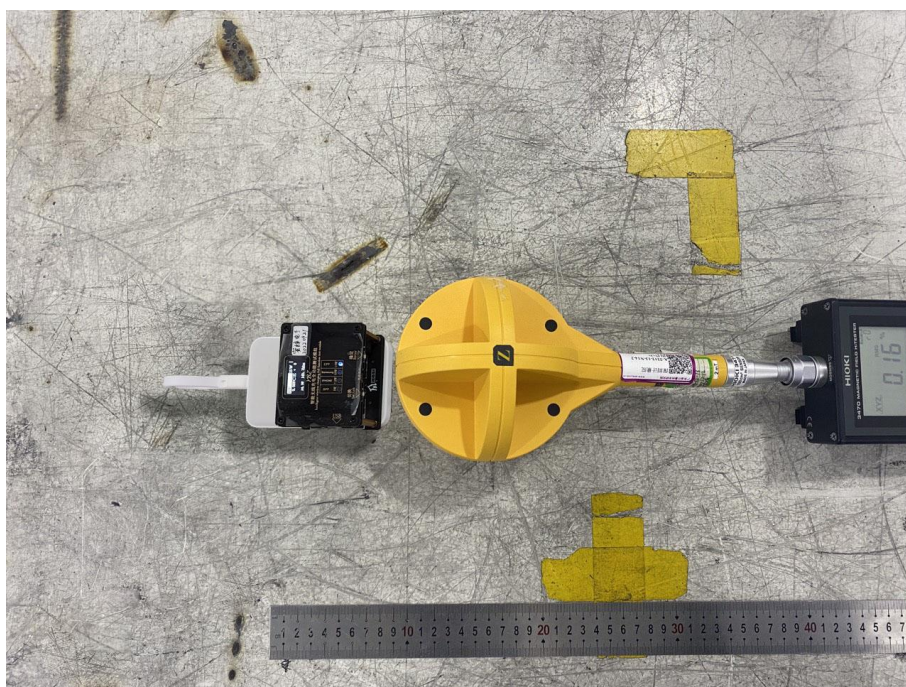
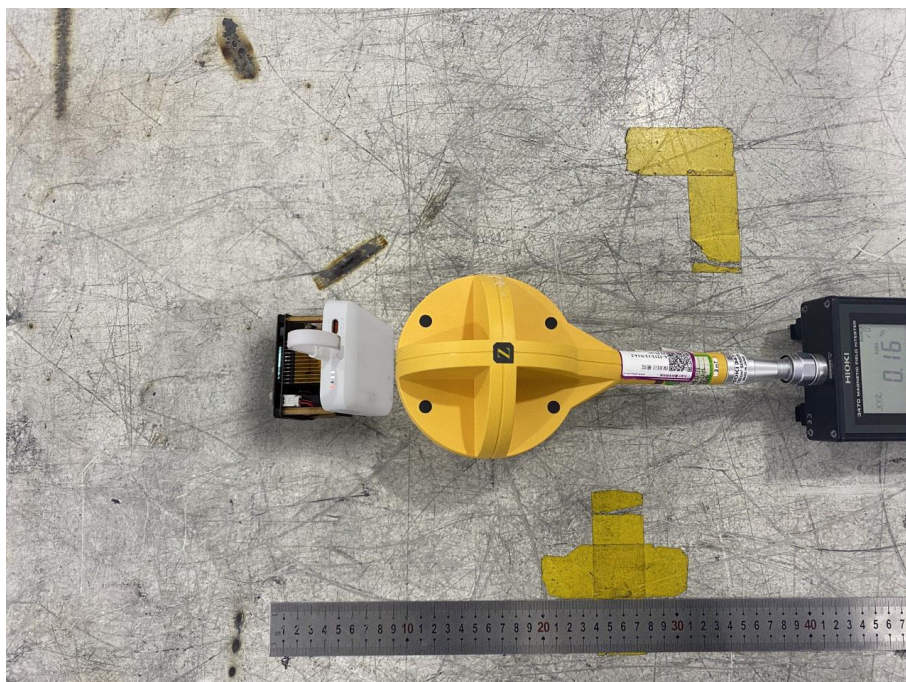
Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0512	1.63	4.36%
	Left	0.0487		
	Right	0.0503		
	Front	0.0599		
	Rear	0.0710		
	Bottom	0.0492		

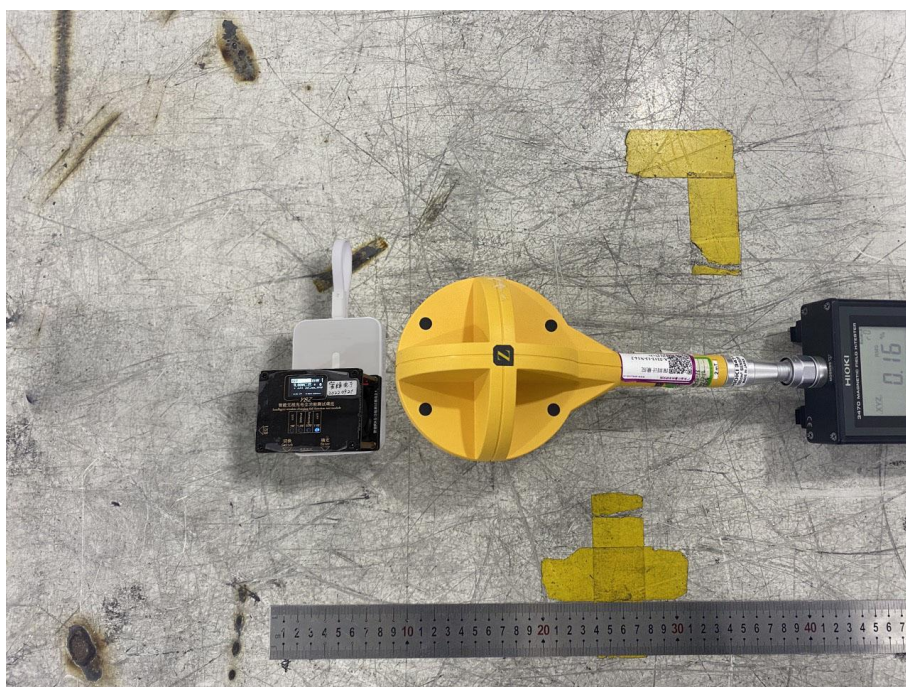
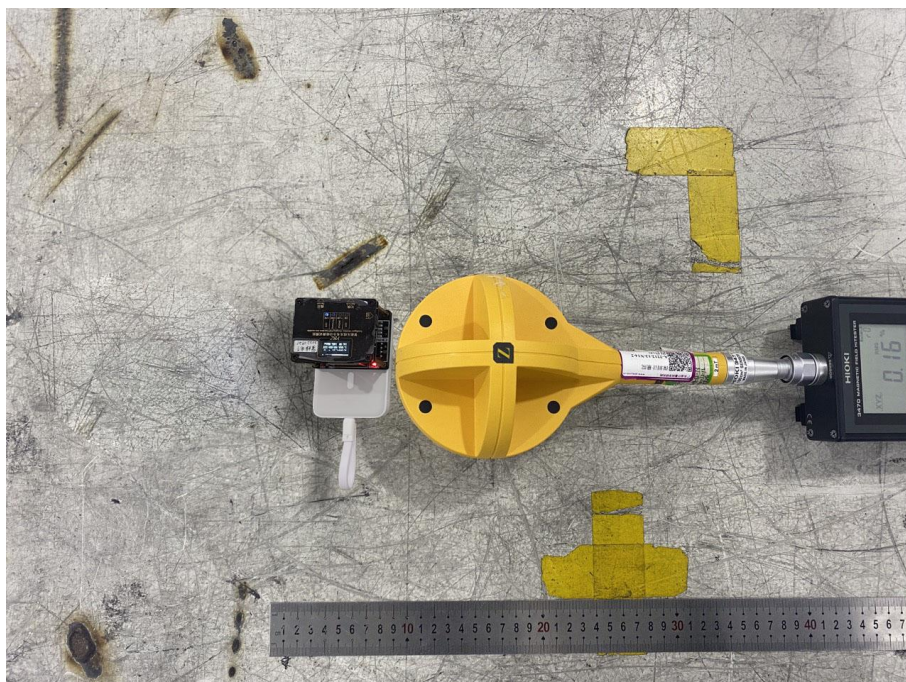
test distance: 20cm

Antenna	Probe Position	H-field (A/m)		
		Measurement	Limit	Max. Percentage (%)
1	Z axis	0.0407	1.63	2.50%
	Left	0.0395		
	Right	0.0466		
	Front	0.0282		
	Rear	0.0407		
	Bottom	0.0312		

APPENDIX A: PHOTOGRAPHS OF TEST SETUP







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