

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 1 of 22

**Applicant**

: XingKuang Innovation Technology (Suzhou) Co., Ltd.

**Address of Applicant**

: 12th Floor, Building 2, No. 1463, Wuzhong Avenue, Wuzhong District, Suzhou, Jiangsu Province, China

**Product Name**

: SmartCam Health Feeder

**Brand Name**

: Lingwei

**Model Name**

: PF20A

**Sample Acquisition Method**

: Sent by Client

**Sample No.**

: E25060038-01#01

E25060038-01#02

**FCC ID**

: 2BOGG-PF20A

**Standard**

: FCC Part 2.1091

**Date of Receipt**

: 2025-06-11

**Date of Test**

: 2025-07-04~ 2025-07-08

**Date of Issue**

: 2025-07-09

**Remark:**

*This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.*

Prepared by:



(Erik Yang)

Reviewed by:



(Jennifer Zhou)

Approved by:



(Authorized signatory: Echo Mu)

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 2 of 22

## Contents

<b>1</b>	<b>GENERAL INFORMATION</b>	<b>3</b>
1.1	TESTING LABORATORY	3
1.2	DETAILS OF APPLICATION	3
1.3	DETAILS OF EUT	3
<b>2</b>	<b>MAXIMUM PERMISSIBLE EXPOSURE (MPE)</b>	<b>4</b>
2.1	LIMITS	4
2.2	ASSESSMENT METHODS	4
2.3	TEST RESULT	5
2.4	CONCLUSION	5
<b>3</b>	<b>APPENDIXES</b>	<b>6</b>
3.1	SAMPLE PHOTOGRAPH	6

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 3 of 22

## 1 General Information

### 1.1 Testing Laboratory

Company Name	ICAS Testing Technology Service (Shanghai) Co., Ltd
Address	No.1298, Pingan Road, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

### 1.2 Details of Application

Applicant Company Name	XingKuang Innovation Technology (Suzhou) Co., Ltd.
Applicant Company Address	12th Floor, Building 2, No. 1463, Wuzhong Avenue, Wuzhong District, Suzhou, Jiangsu Province, China
Contact Person	Chunlei Deng
Telephone	18951582775
Email	certificate@dreame.tech
Manufacturer Company Name	XingKuang Innovation Technology (Suzhou) Co., Ltd.
Manufacturer Company Address	12th Floor, Building 2, No. 1463, Wuzhong Avenue, Wuzhong District, Suzhou, Jiangsu Province, China
Factory Company Name	Moke Intelligent Technology (Suzhou) Co., Ltd.
Factory Company Address	4th Floor, Building 6, No.1999 Songjia Road, Guoxiang Street, Wuzhong Economic Development Zone, Suzhou, Jiangsu Province, P.R.

### 1.3 Details of EUT

Product Name	SmartCam Health Feeder	
Brand Name	Lingwei	
Test Model Name	PF20A	
FCC ID	2BOGG-PF20A	
Mode of Operation	WIFI 802.11b/g/n(HT20) for 2.4GHz Bluetooth LE	Frequency Range (MHz)
Frequency Range	802.11b/g/n(HT20)	2412~2462
	Bluetooth LE	2402~2480
Modulation Type	DSSS/OFDM for WIFI 2.4GHz GFSK for Bluetooth LE	
Antenna Type	FPC Antenna	
Antenna Gain	3.29dBi	
Hardware version	V1.1	
Software version	1027	

Note:

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 4 of 22

1. The above information was declared by the manufacturer.
2. For more details, please refer to the User's manual of the EUT.

## 2 Maximum Permissible Exposure (MPE)

### 2.1 Limits

According to KDB 447498 D01 General RF Exposure Guidance v06, Per § 1.1310(d)(2) MPE limits in § 1.1310(e)(1)

- Table 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.

TABLE 1 TO § 1.1310(E)(1)—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(I) Limits for Occupational/Controlled Exposure</b>				
0.3–3.0 .....	614 .....	1.63 .....	*(100) .....	≤6
3.0–30 .....	1842/f .....	4.89/f .....	*(900/f <sup>2</sup> ) .....	<6
30–300 .....	61.4 .....	0.163 .....	1.0 .....	<6
300–1,500 .....	.....	.....	f/300 .....	<6
1,500–100,000 .....	.....	.....	5 .....	<6
<b>(II) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614 .....	1.63 .....	*(100) .....	<30
1.34–30 .....	824/f .....	2.19/f .....	*(180/f <sup>2</sup> ) .....	<30
30–300 .....	27.5 .....	0.073 .....	0.2 .....	<30
300–1,500 .....	.....	.....	f/1500 .....	<30
1,500–100,000 .....	.....	.....	1.0 .....	<30

f = frequency in MHz. \* = Plane-wave equivalent power density.

### 2.2 Assessment methods

Calculation Formula from FCC OET 65:

$$S = \frac{P * G}{4 * \pi * R^2}$$

Where:

S = Power Density (mW/cm<sup>2</sup>)

P = Input Power of the Antenna (mW)

G = Antenna Gain Relative to an Isotropic Antenna

R = Distance from the Antenna to the Point of Investigation (cm)

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 5 of 22

## 2.3 Test Result

Operation Mode	Frequency Range (MHz)	Max Conducted Power (dBm)	Antenna Gain (dBi)	Max EIRP (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WIFI 2.4G Band	2412~2462	15.19	3.29	70.469	0.014019	1.0
BLE	2402~2480	-0.10		2.084	0.000415	1.0

**Note(s):**

1. For 1,500 – 100,000MHz: Power Density limit is 1.0 mW/cm<sup>2</sup>

## 2.4 Conclusion

The Power Density at the position which is 20 cm far from the EUT is smaller than the General Population/Uncontrolled Exposure limit.

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 6 of 22

## 3 Appendixes

### 3.1 Sample Photograph



All of the sample



Front of the sample

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 7 of 22



Rear of the sample



Left of the sample

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 8 of 22



Right of the sample



Top of the sample

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 9 of 22



Bottom of the sample



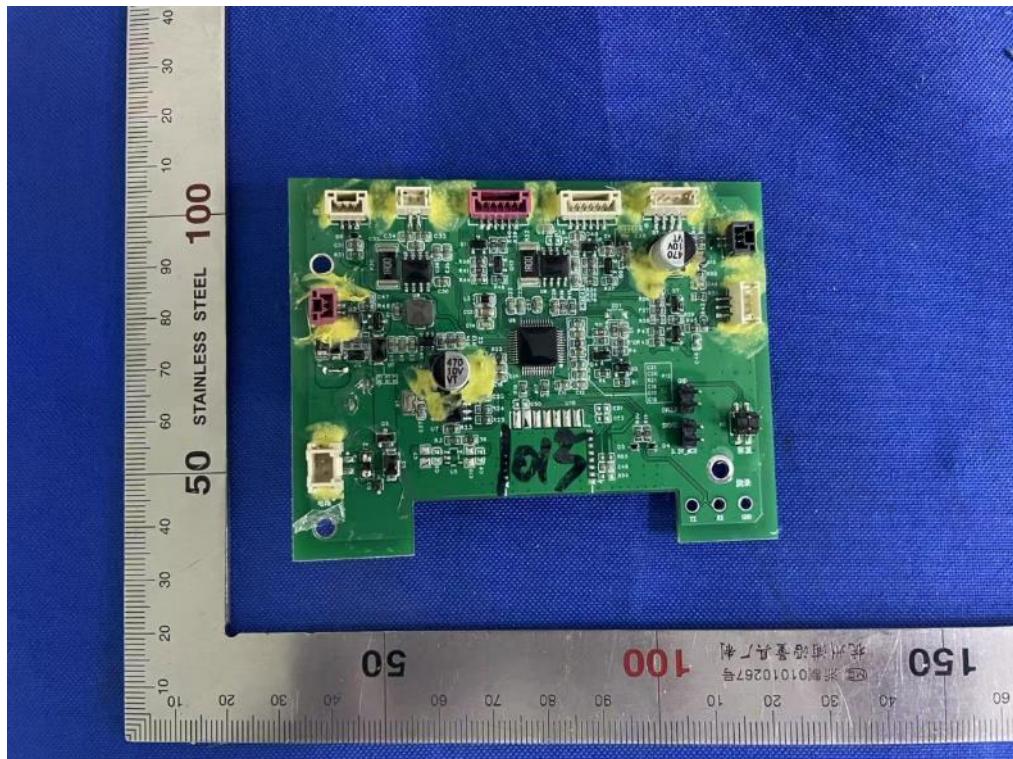
Open-1 of the sample

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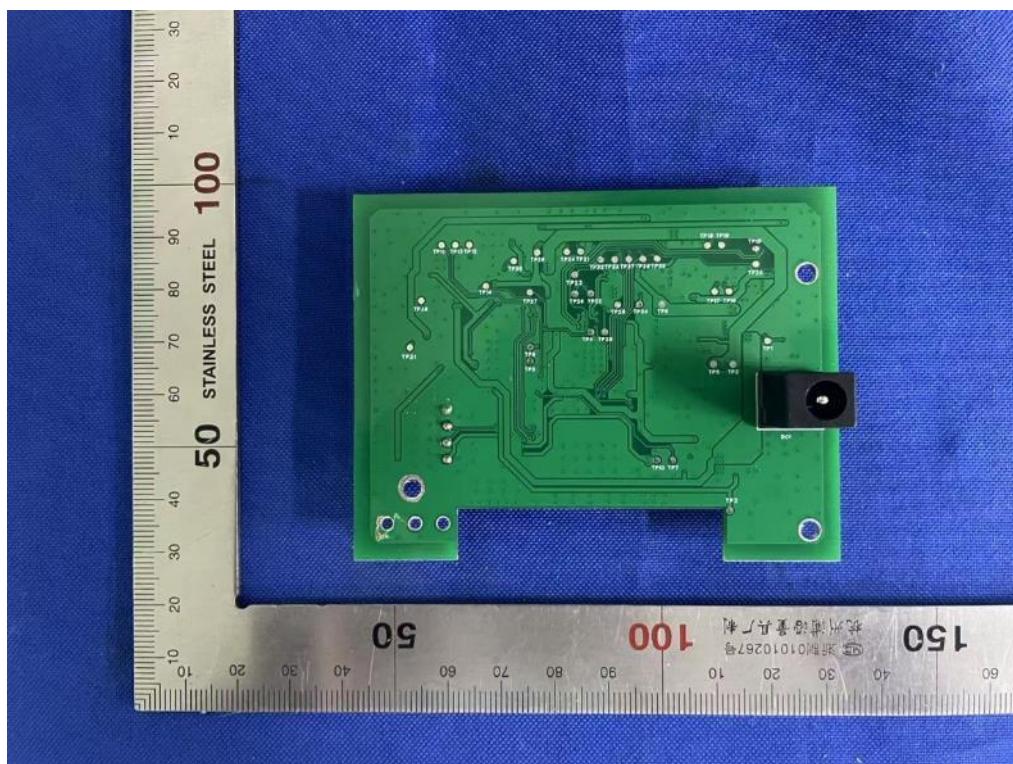
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 10 of 22



Internal-1 of the sample



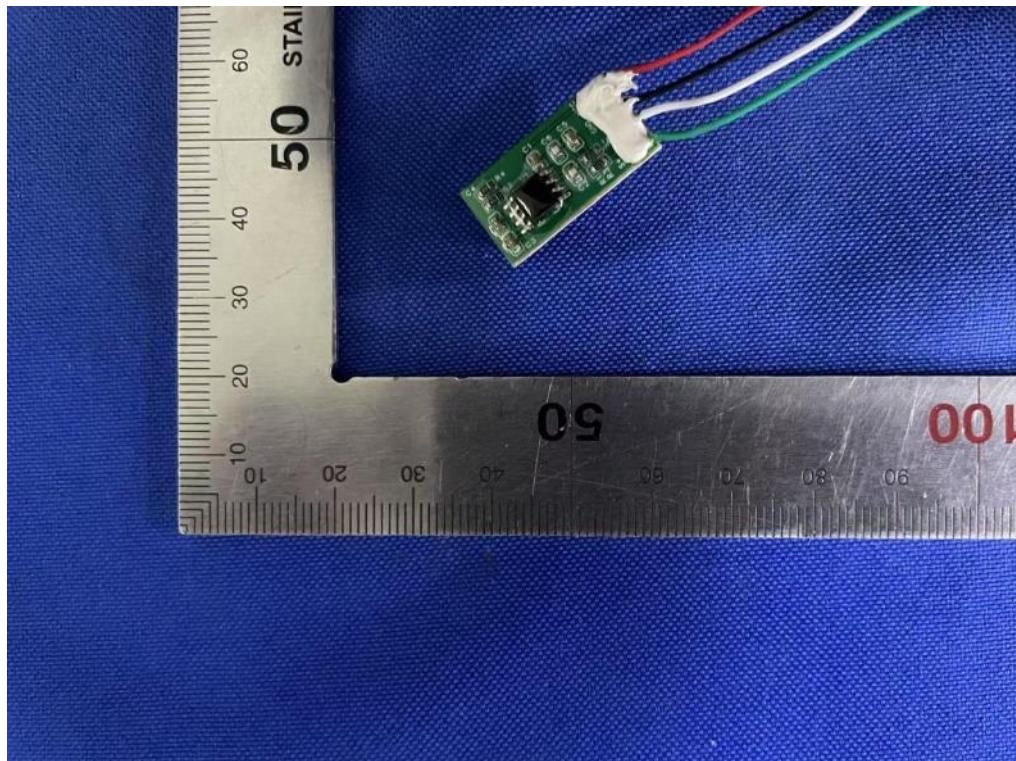
Internal-2 of the sample

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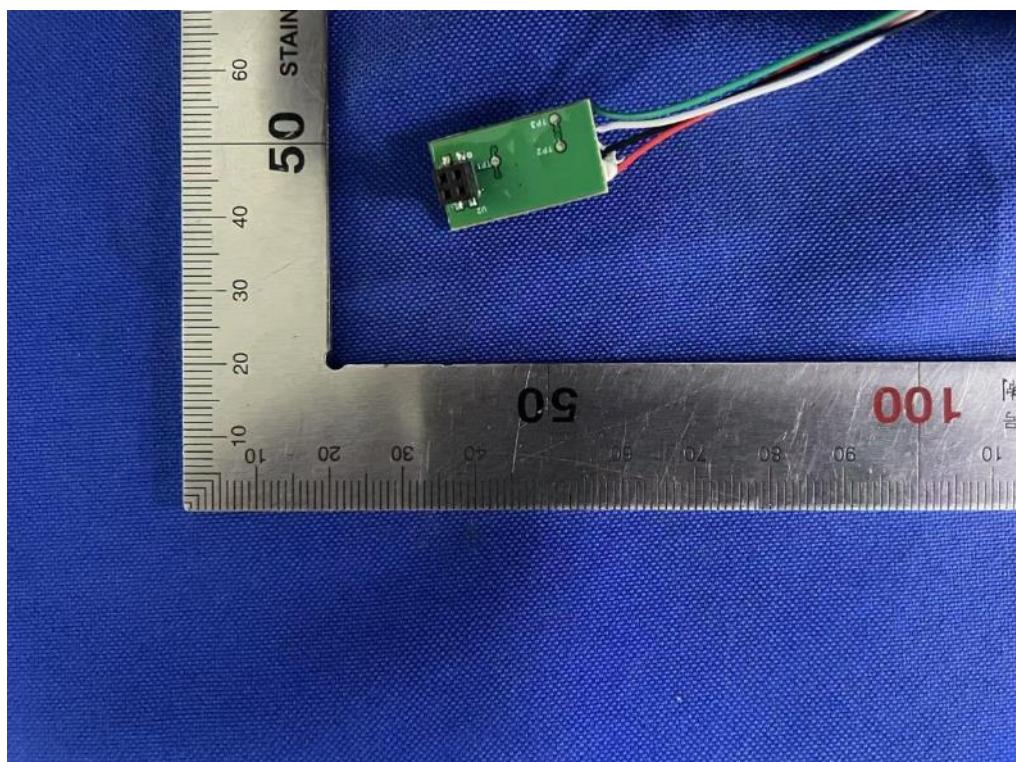
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 11 of 22



Internal-3 of the sample



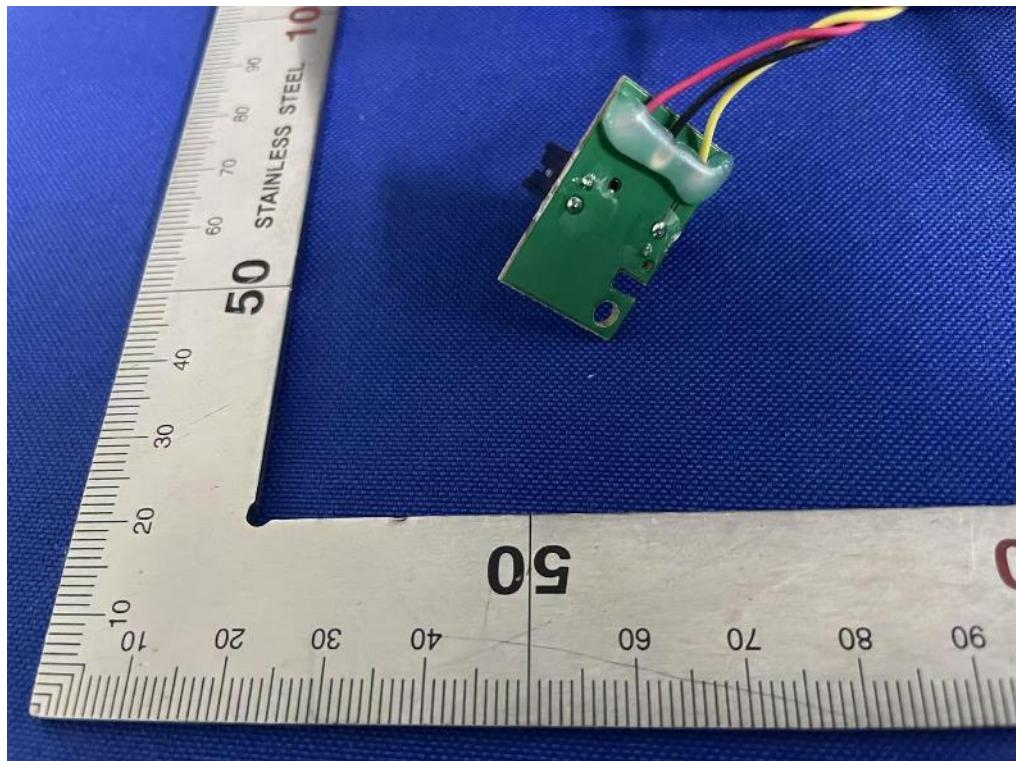
Internal-4 of the sample

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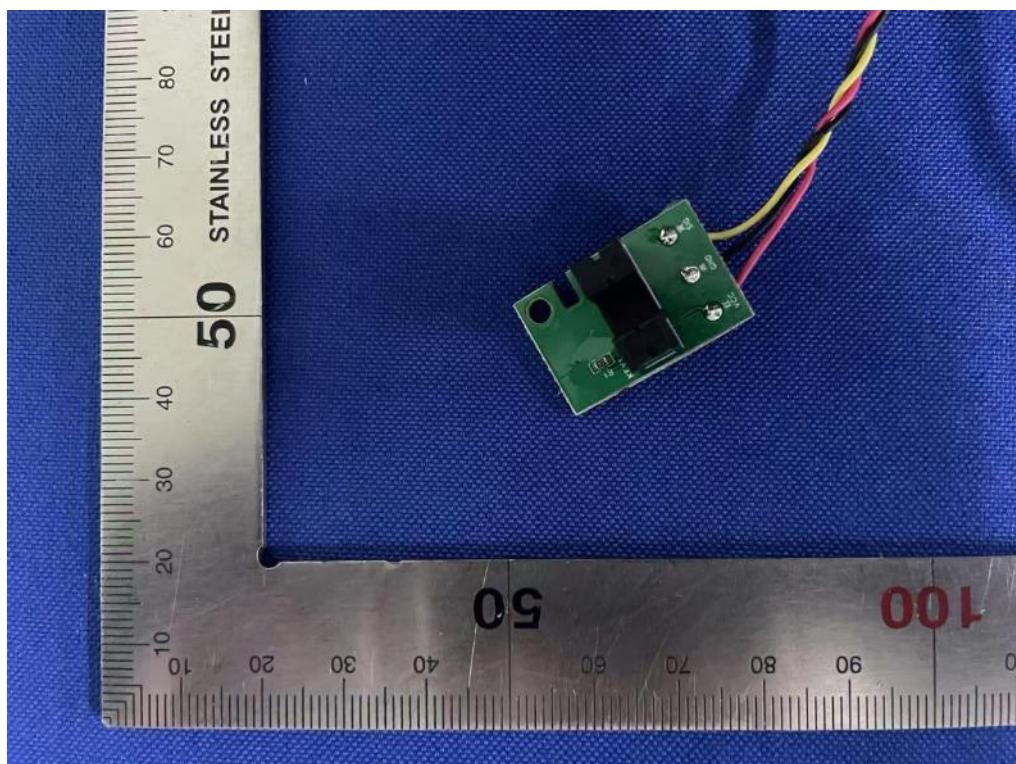
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 12 of 22



Internal-5 of the sample



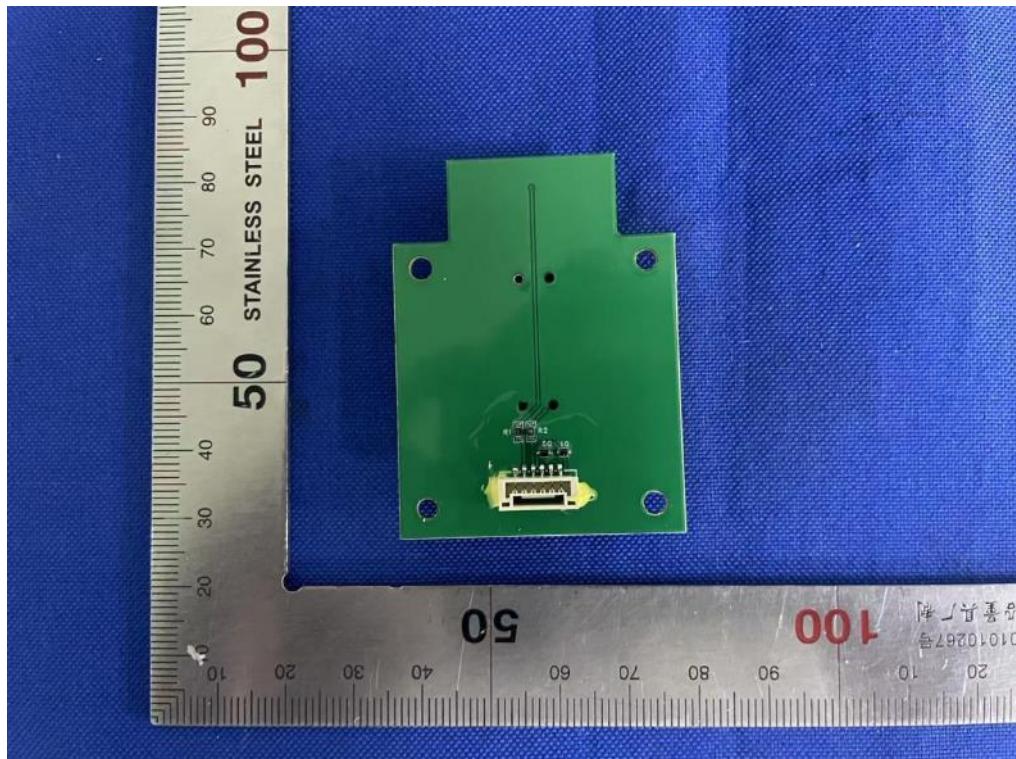
Internal-6 of the sample

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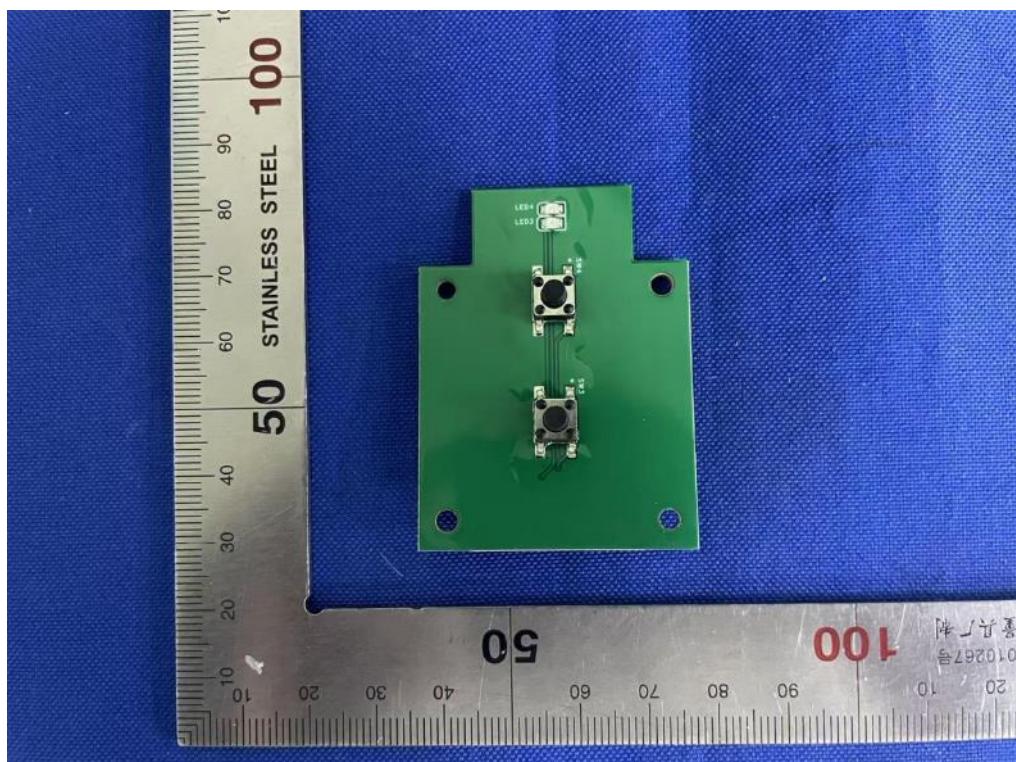
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 13 of 22



Internal-7 of the sample



Internal-8 of the sample

# MPE TEST REPORT

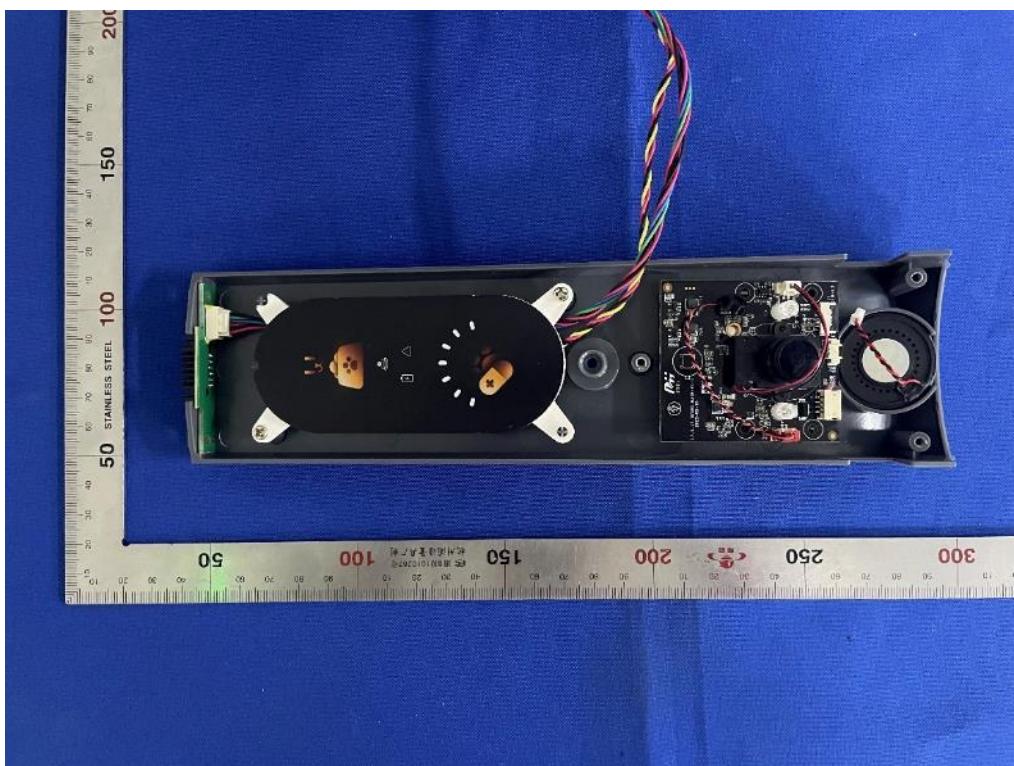
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 14 of 22



Internal-9 of the sample



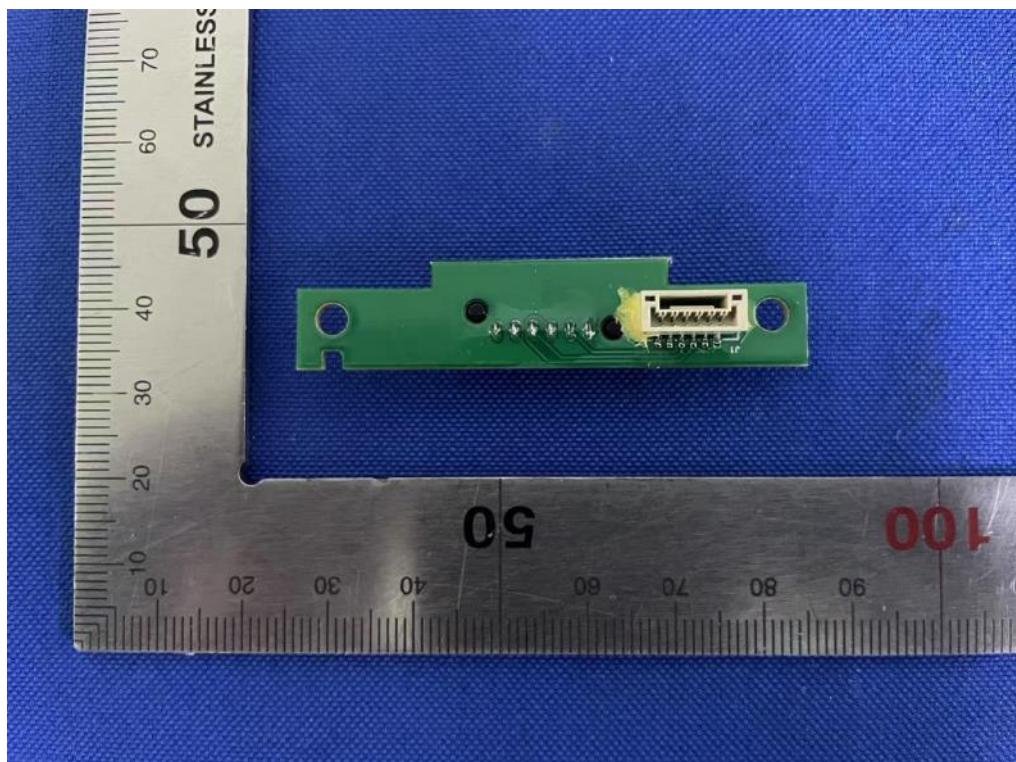
Internal-10 of the sample

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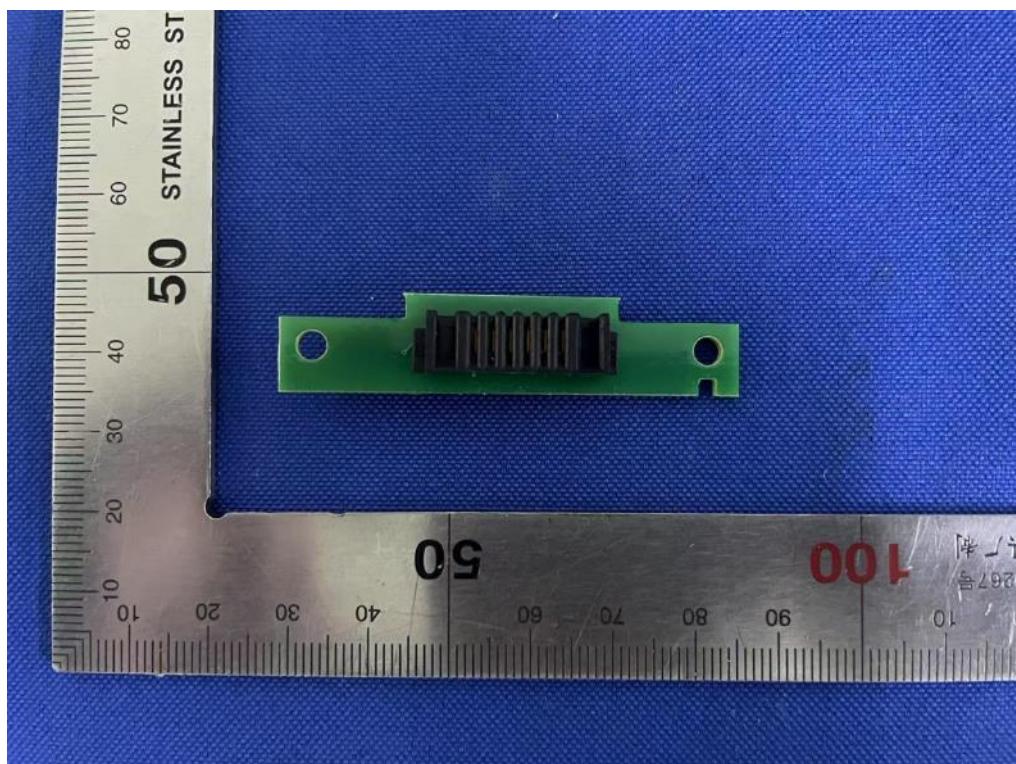
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 15 of 22



Internal-11 of the sample



Internal-12 of the sample

# MPE TEST REPORT

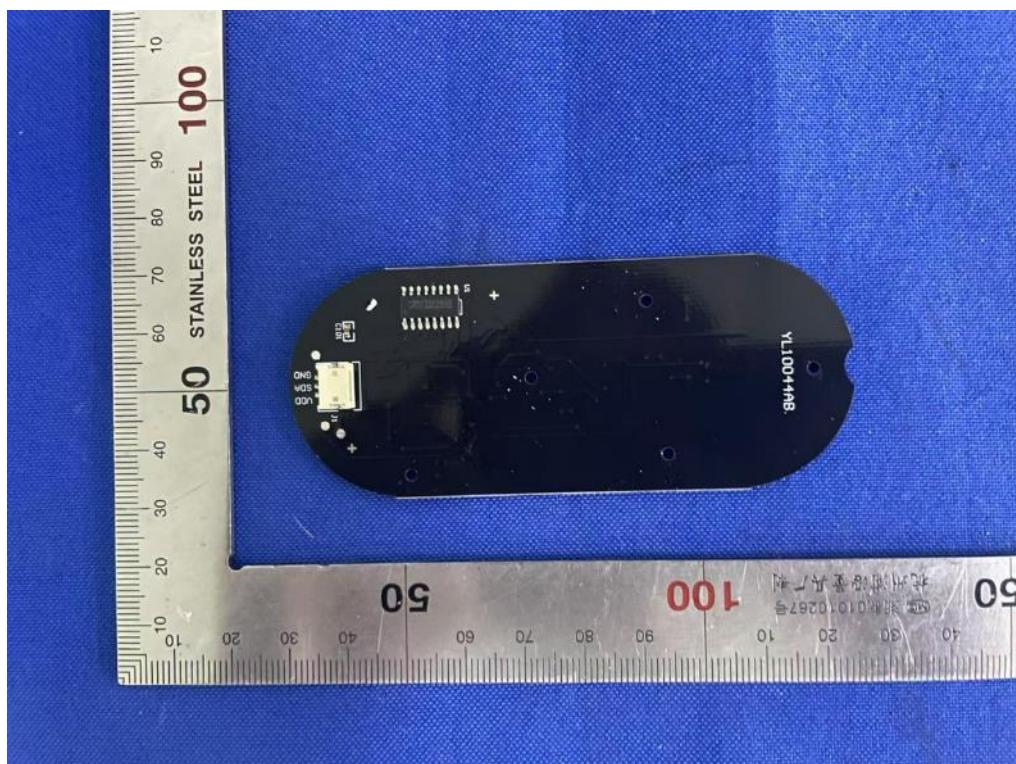
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 16 of 22



Internal-13 of the sample



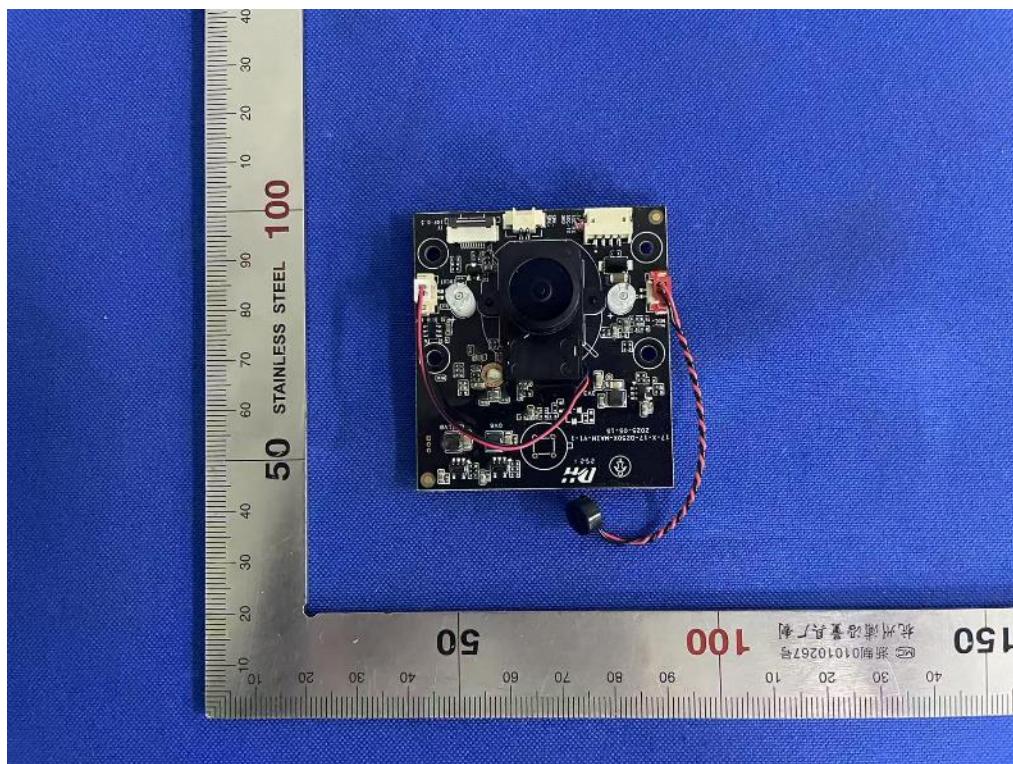
Internal-14 of the sample

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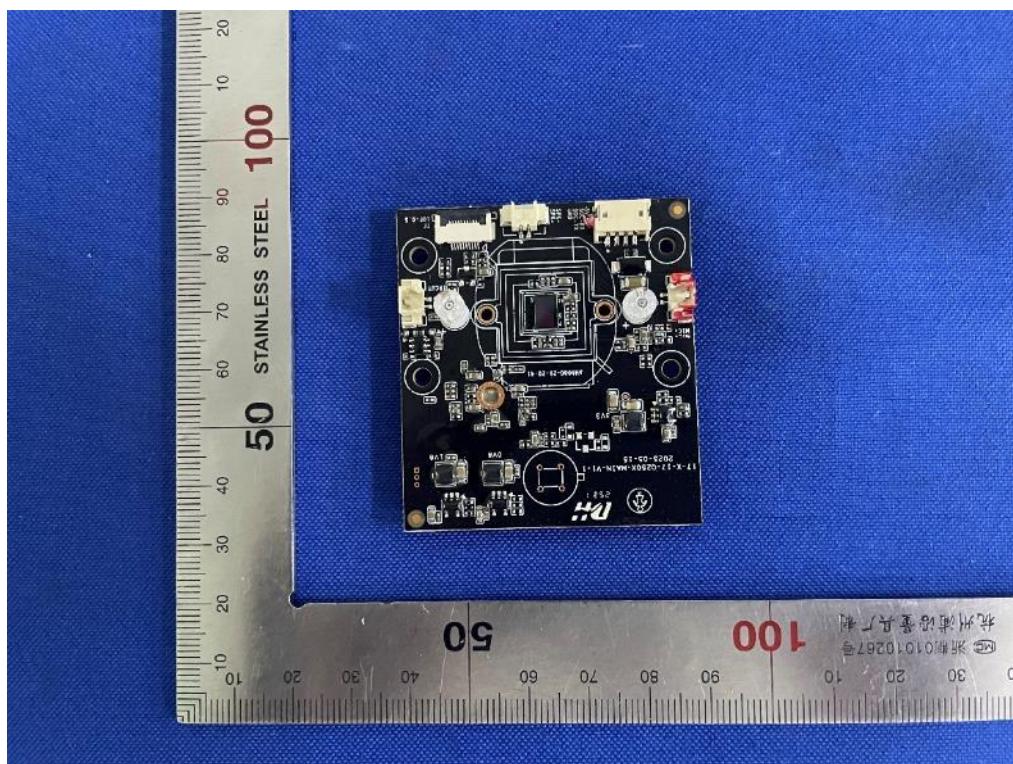
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 17 of 22



Internal-15 of the sample



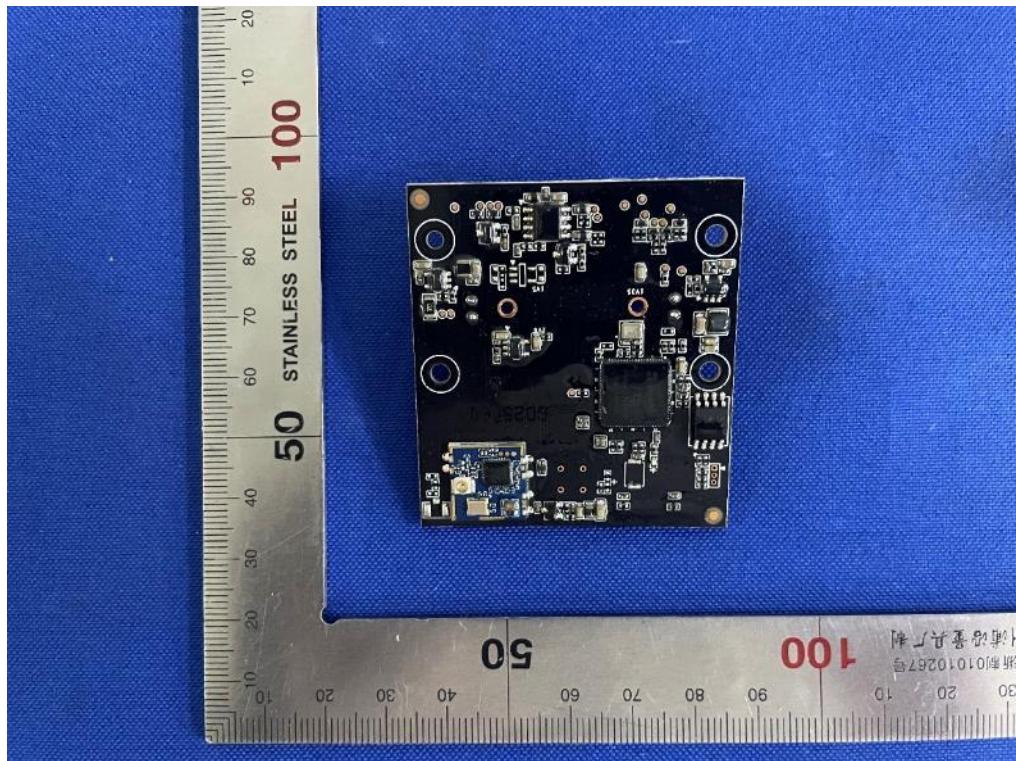
Internal-16 of the sample

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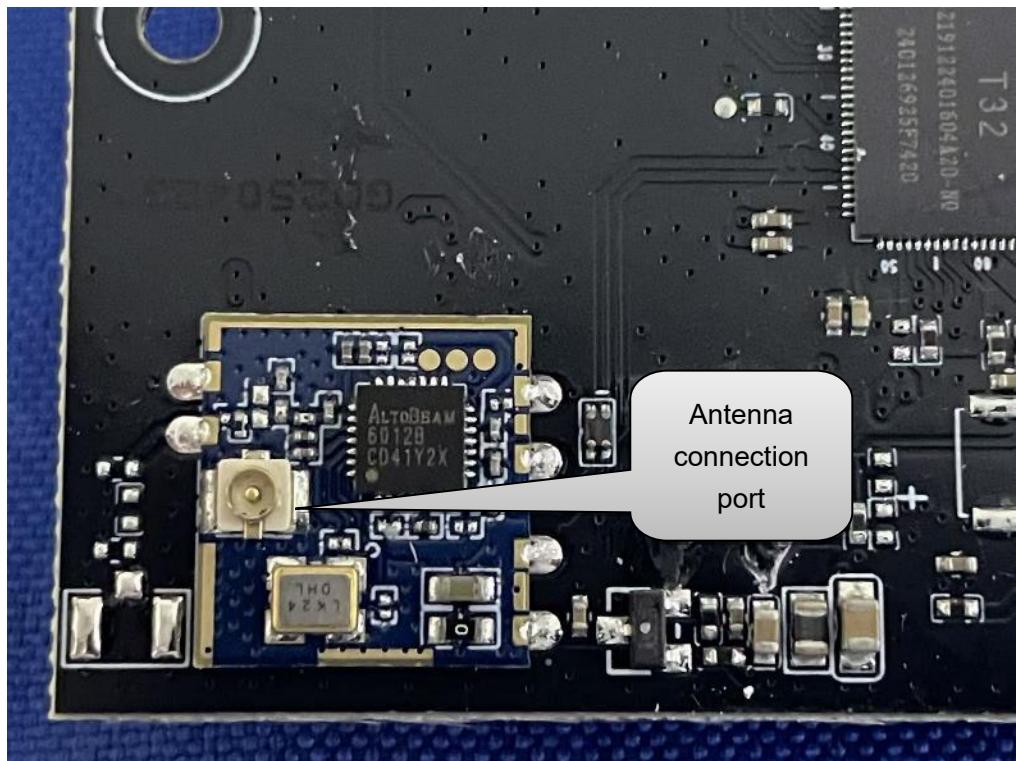
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 18 of 22



Internal-17 of the sample



Antenna connection port

# MPE TEST REPORT

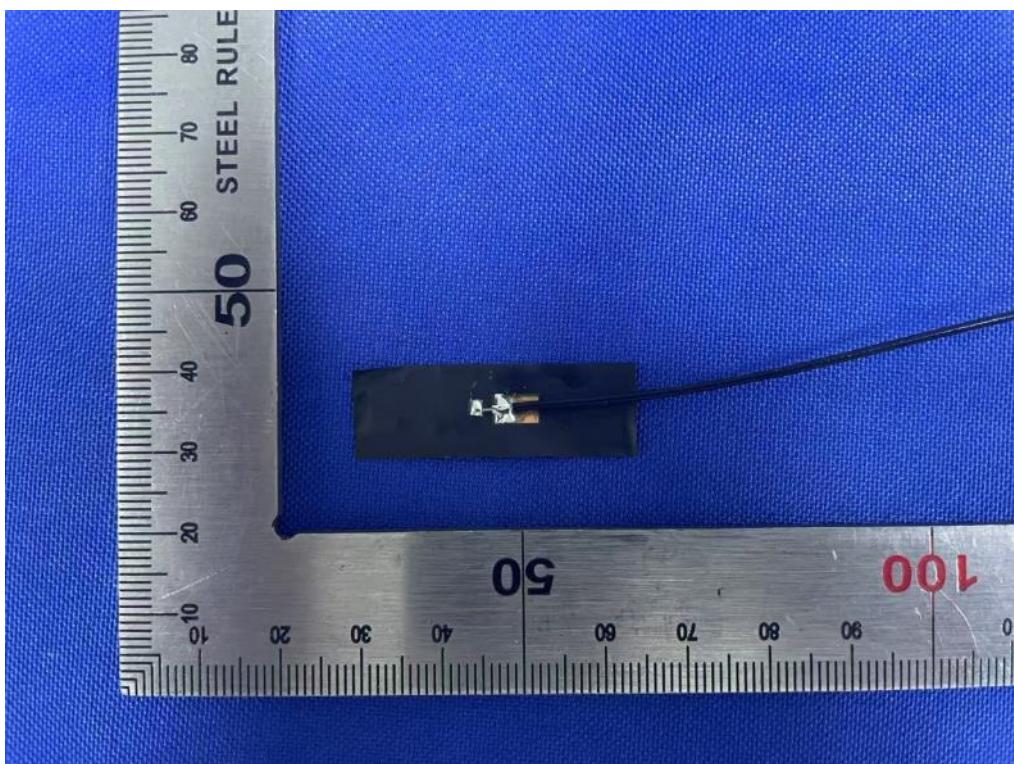
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 19 of 22



Antenna Position



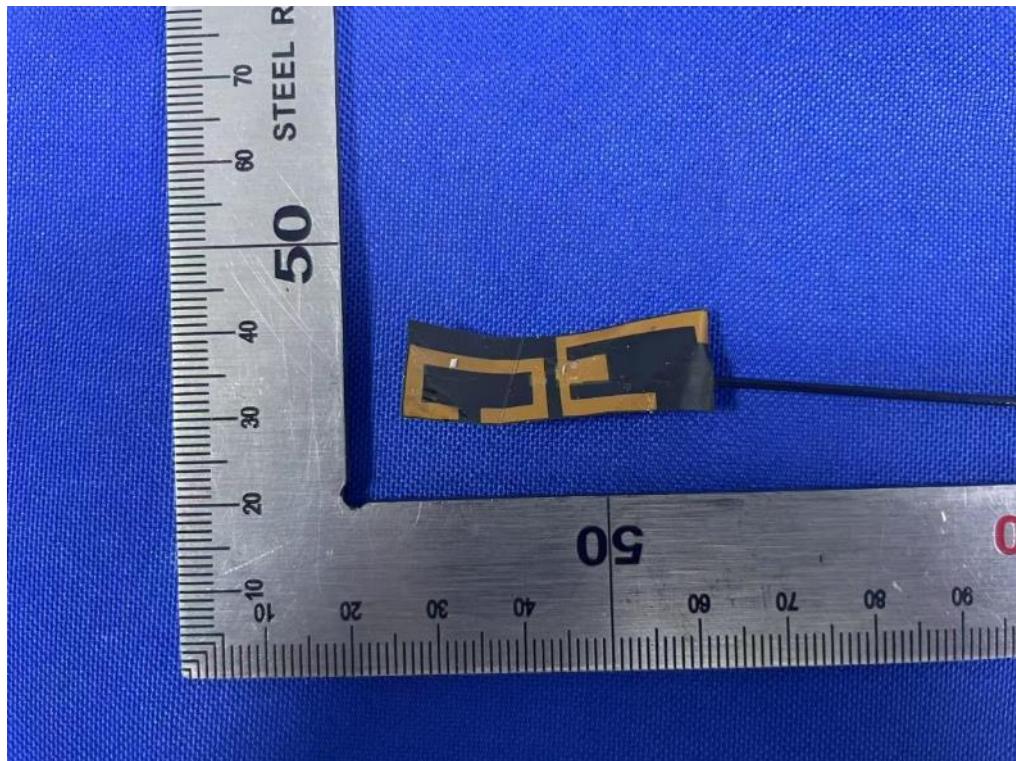
Antenna photo-1

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 20 of 22



Antenna photo-2



Adapter-1

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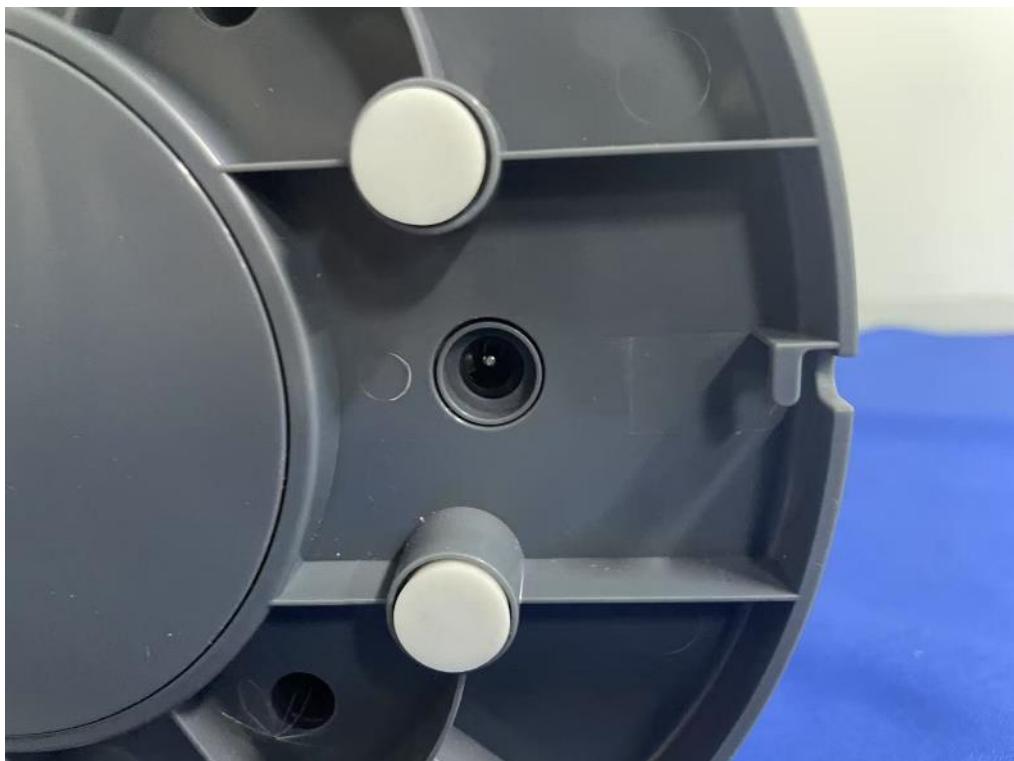
Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 21 of 22



Adapter-2



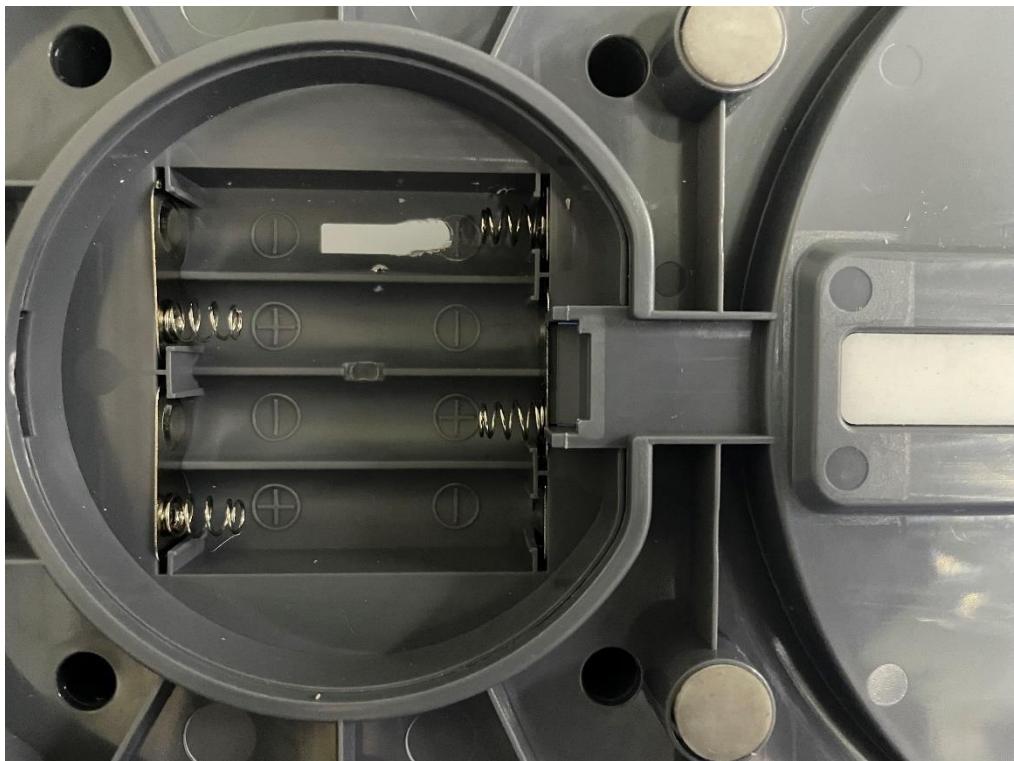
Power Port

# MPE TEST REPORT

Report No.: SHE25060038-01FE

Date: 2025-07-09

Page 22 of 22



Battery Supply

\*\*\*End of the report\*\*\*