

MPE TEST REPORT

Report No.: SHE24090019-02FE

Date: 2024-10-29

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Applicant : PETKIT Network Technology (Shanghai) Co., Ltd.
Address of Applicant : Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai

Product Name : PETKIT PURA MAX 2 SELF-CLEANING CAT LITTER BOX

Brand Name : PETKIT

Model Name : P9902

Sample Acquisition Method : Sent by Client

Sample No. : E24090019-01#05

FCC ID : 2A72N-P9902

Standard : FCC Part 2.1091

Date of Receipt : 2024-09-10

Date of Test : 2024-10-09~ 2024-10-28

Date of Issue : 2024-10-29

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.

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(Erik Yang)

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Approved by:

Echo Mu

(Authorized signatory: Echo Mu)

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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 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060
Ambient noise & Reflection (W/kg)	< 0.012

1.3 Details of Application

Applicant Company Name	PETKIT Network Technology (Shanghai) Co., Ltd.
Address	Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai
Contact Person	TingHe
Telephone	13916991059
Email	ting.he@petkit.com
Manufacturer Company Name	Dongguan Zhihang Electronic Technology Co., LTD.
Address	Room 701, Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City,Guangdong Province, China.
Factory Company Name	Dongguan Zhihang Electronic Technology Co., LTD.
Address	Room 701, Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City,Guangdong Province, China.

1.4 Details of EUT

Product Name	PETKIT PURA MAX 2 SELF-CLEANING CAT LITTER BOX	
Brand Name	PETKIT	
Test Model Name	P9902	
FCC ID	2A72N-P9902	
Mode of Operation	WLAN 802.11b/g/n(HT20/40) for 2.4GHz Bluetooth LE Version 5.0	
Frequency Range	Band	Frequency Range (MHz)
	802.11b/g/n(HT20/40)	2412~2462
	Bluetooth LE	2402~2480

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Modulation Type	DSSS/OFDM for WLAN 2.4GHz GFSK for Bluetooth LE
Antenna Type	PCB Antenna
Antenna Gain	3.71dBi
Hardware version	V2.3
Software version	1.614

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 the 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 ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
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
300–1,500			f/300	<6
1,500–100,000			5	<6
(ii) 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
300–1,500			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/cm²)

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)

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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 ²)	Limit (mW/cm ²)
WLAN 2.4GHz	2412~2462	16.92	3.71	115.61	0.0230	1.0
BLE	2402~2480	1.17	3.71	3.08	0.0006	1.0

Note(s):

- 1. For 300 – 1,500MHz: Power Density limit is f/1500 mW/cm2
- 2. For 1,500 – 100,000MHz: Power Density limit is 1.0 mW/cm²
- 3. The device can not transmit with WIFI and BT simultaneously, so MPE is not evaluated in this configuration.

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.

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3 Appendixes

3.1 Sample Photograph



All of the sample



Front of the sample

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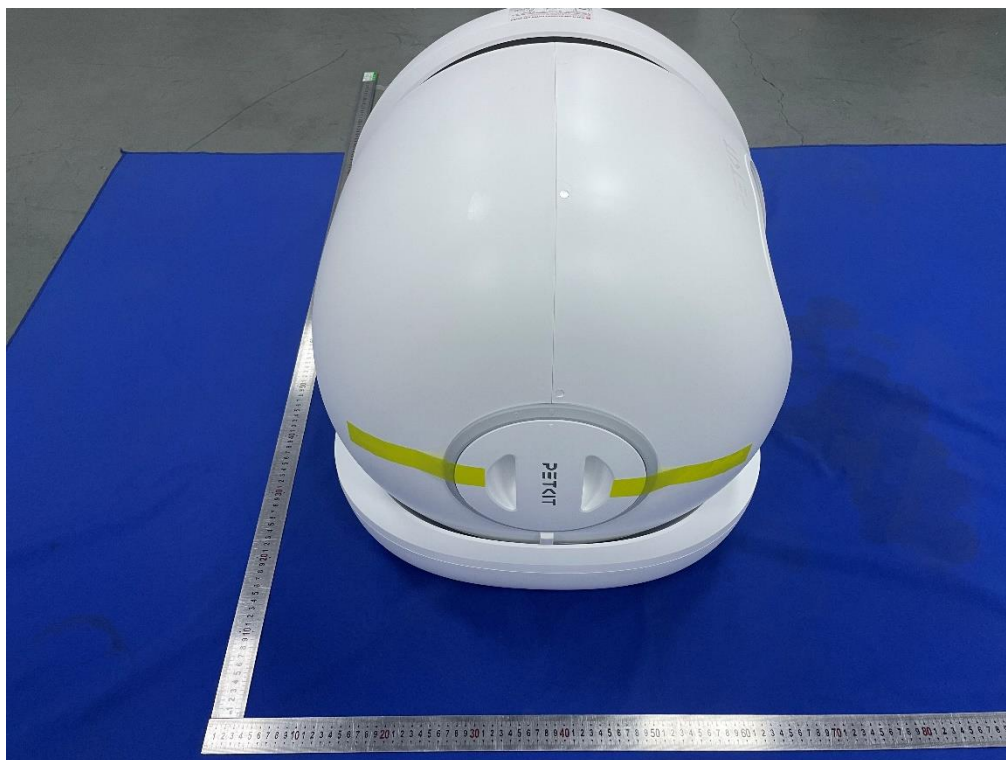
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Rear of the sample



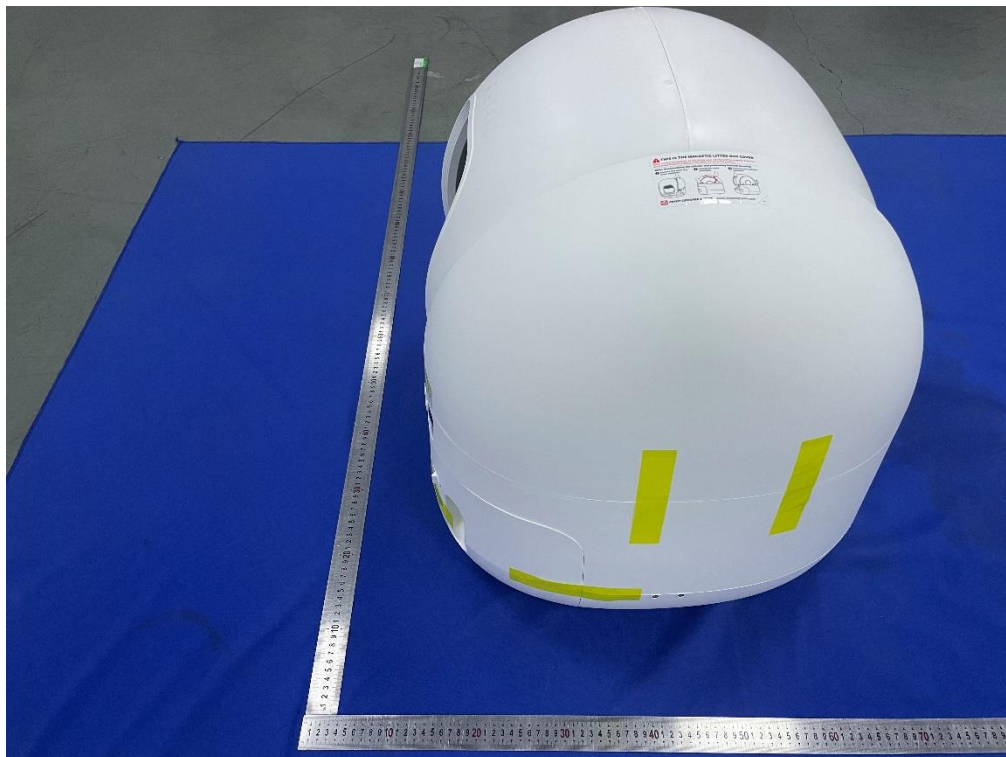
Left of the sample

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Right of the sample



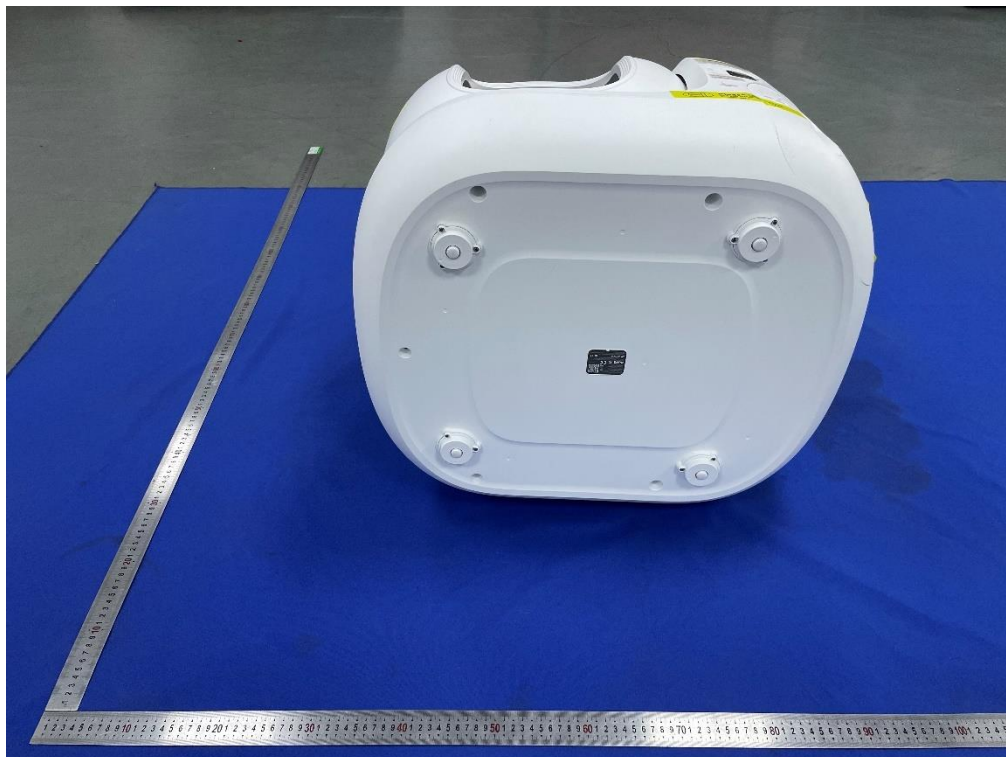
Top of the sample

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Bottom of the sample



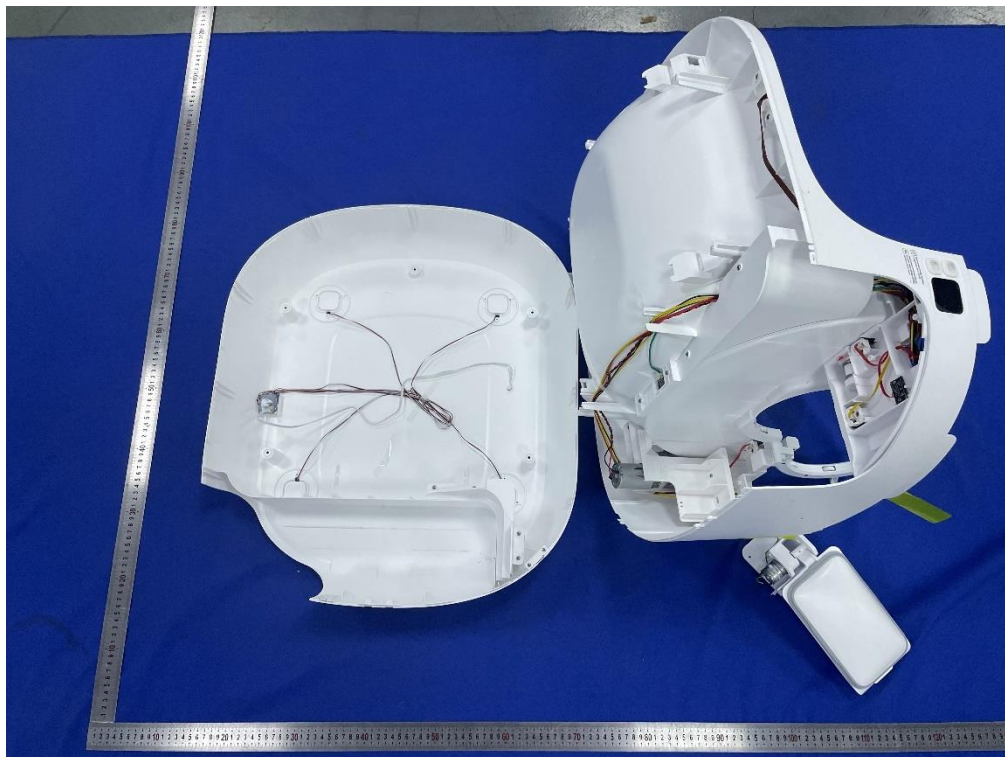
Open-1 of the sample

MPE TEST REPORT

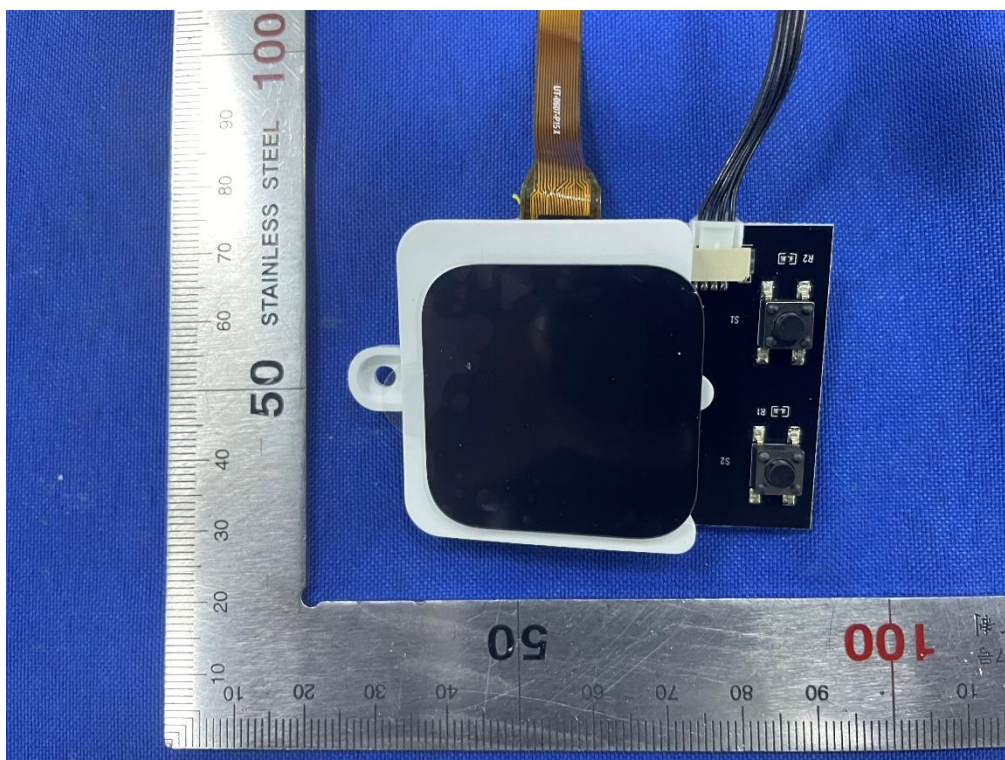
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Open-2 of the sample



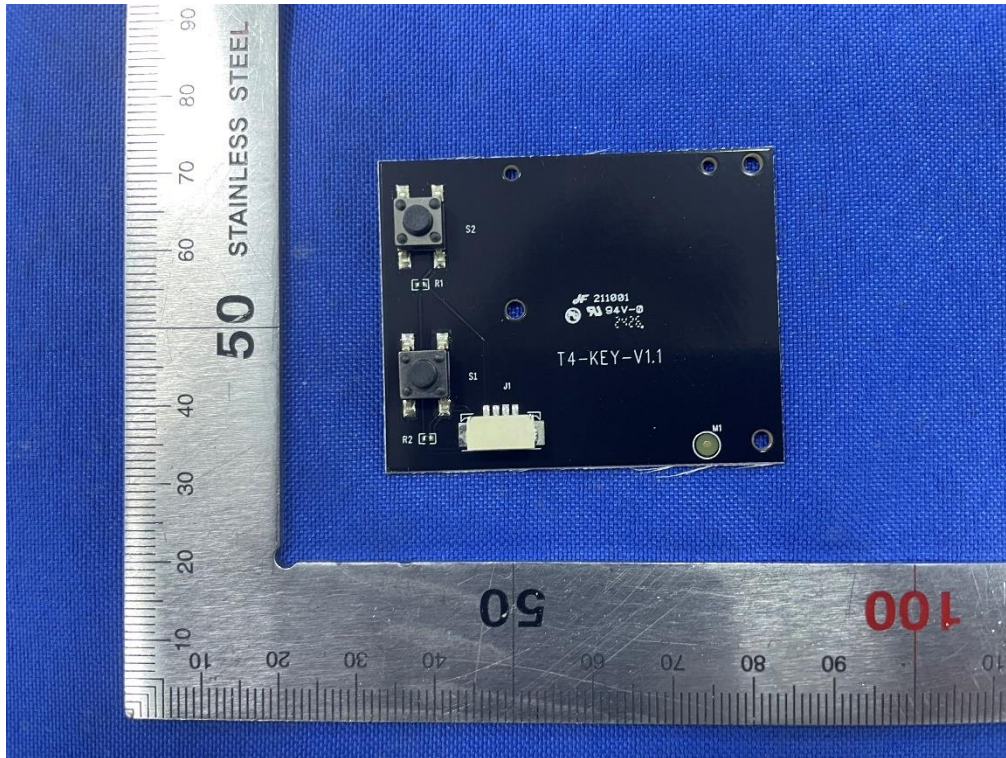
Internal-1 of the sample

MPE TEST REPORT

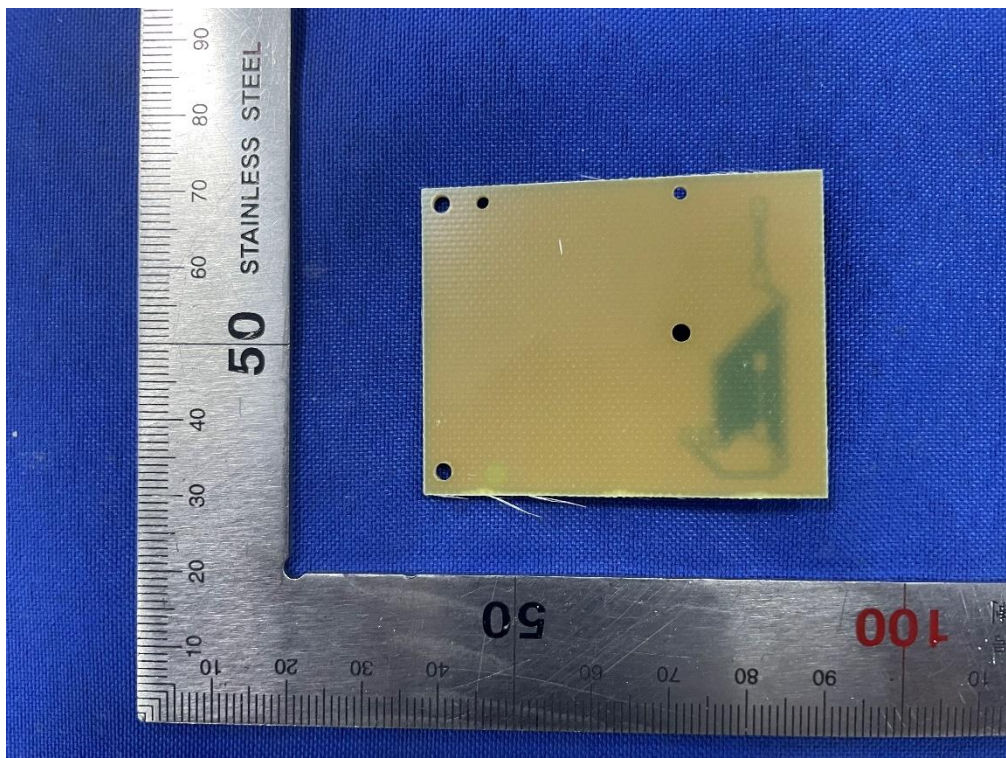
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Internal-2 of the sample



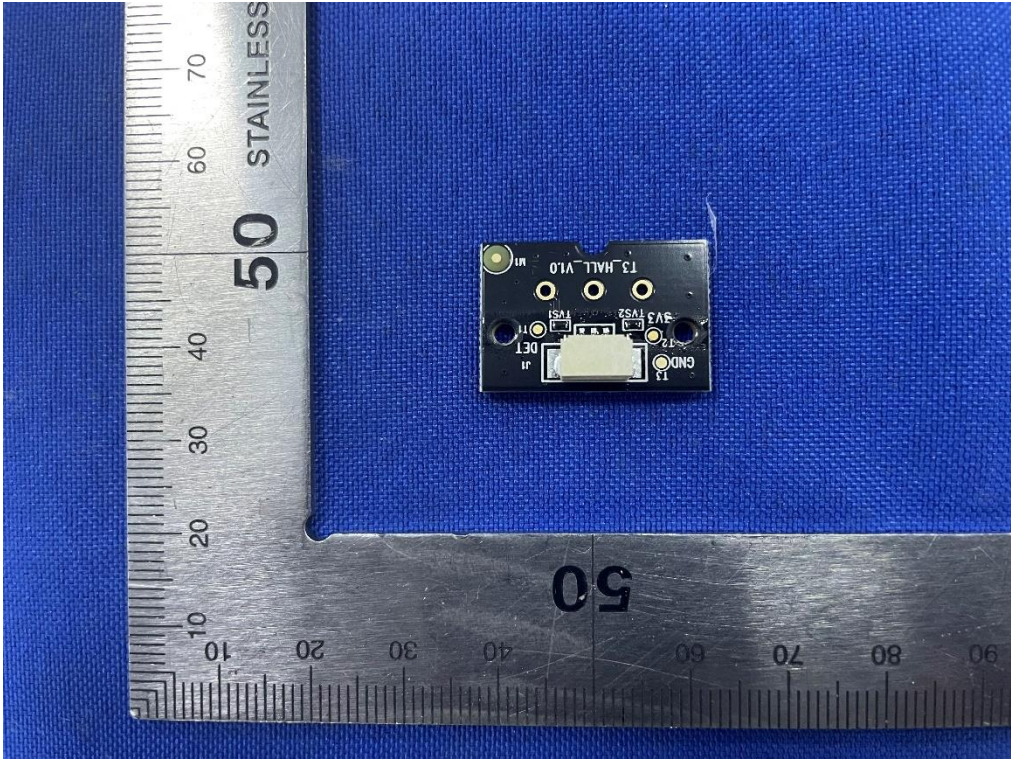
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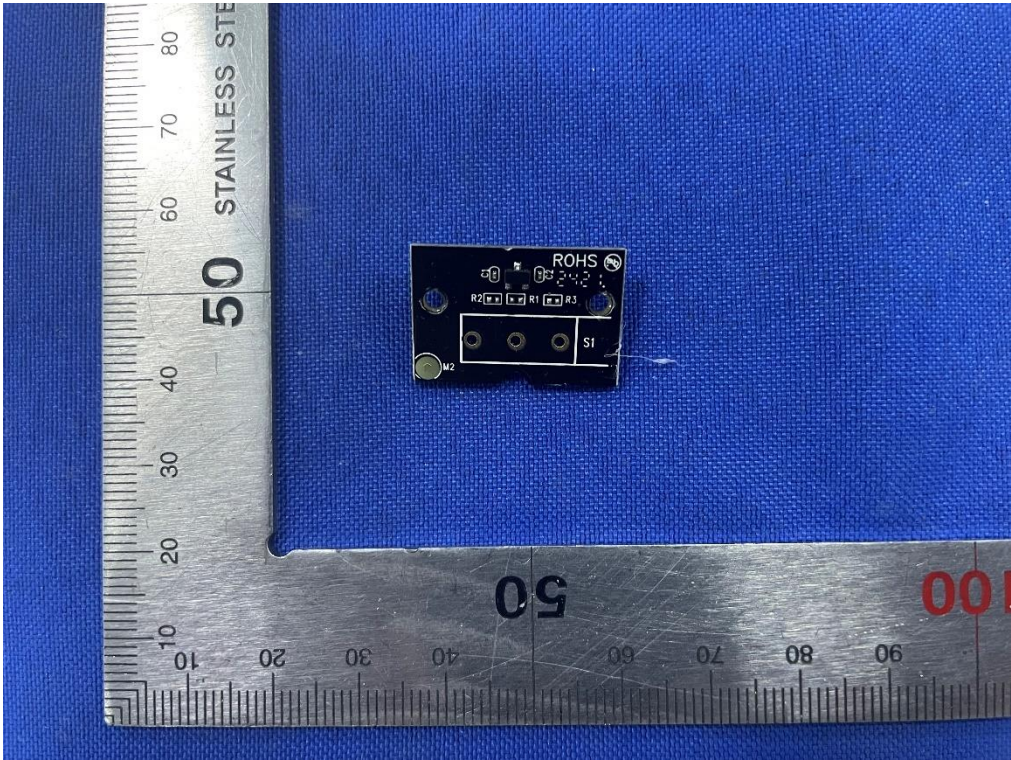
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Internal-4 of the sample



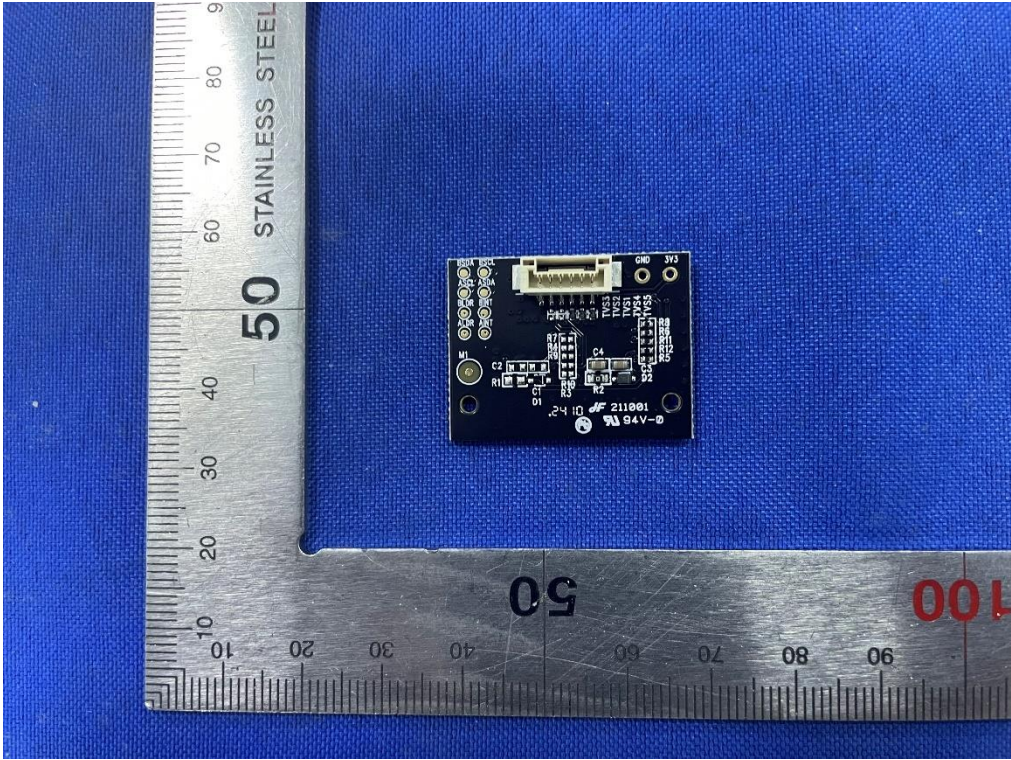
Internal-5 of the sample

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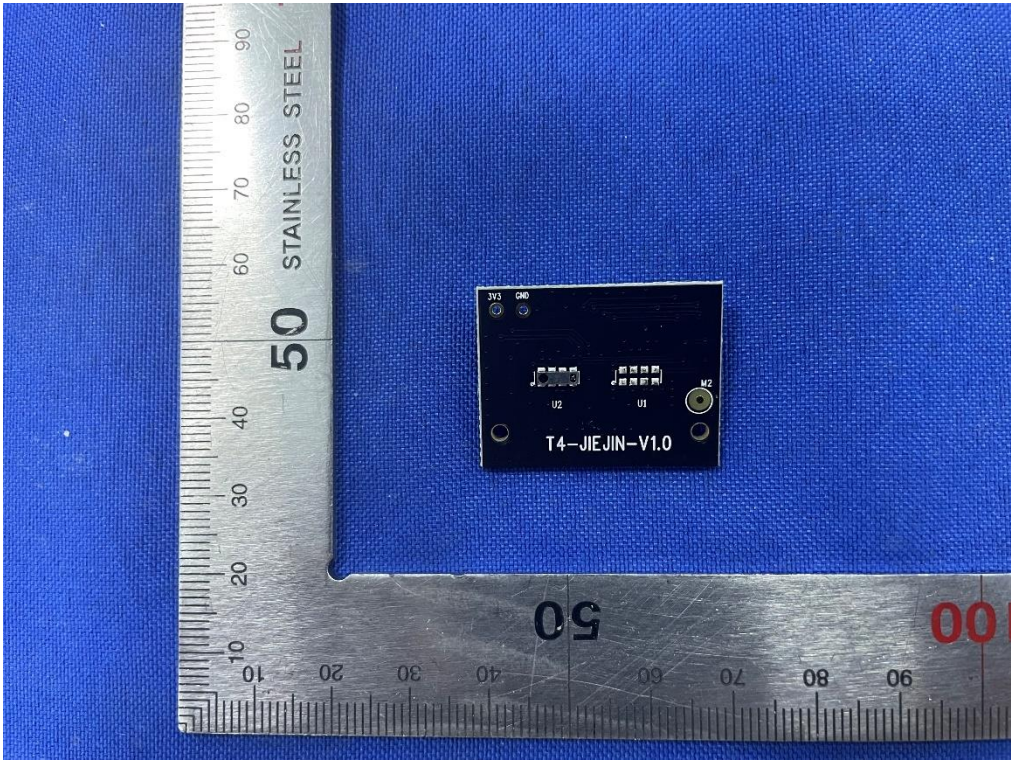
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Internal-6 of the sample



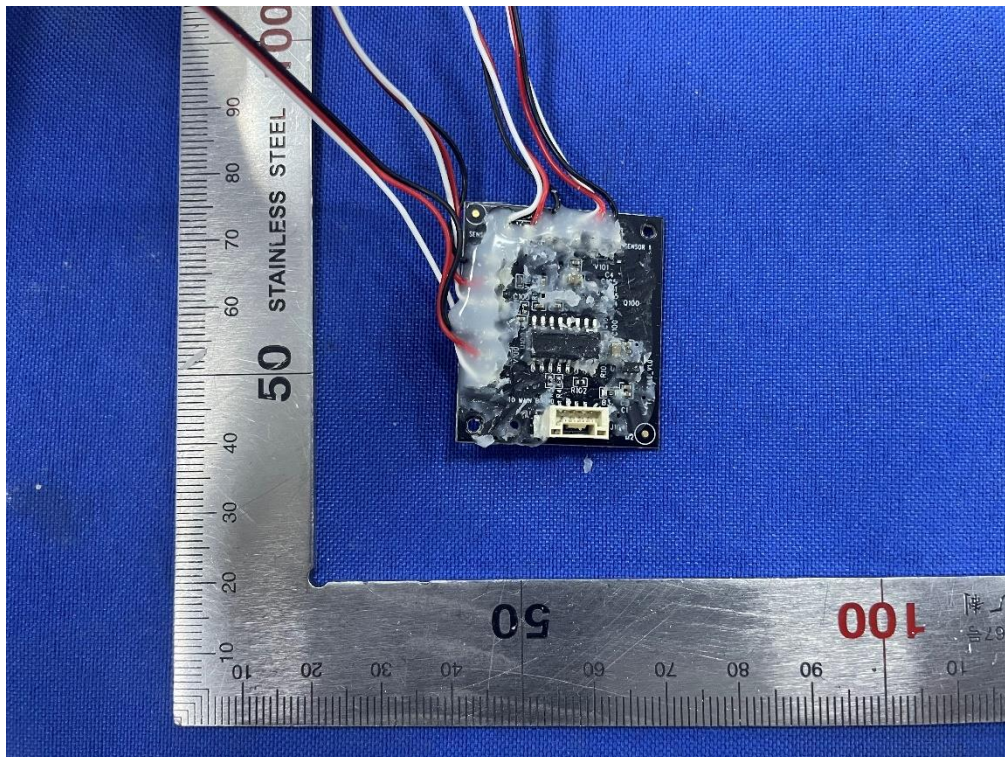
Internal-7 of the sample

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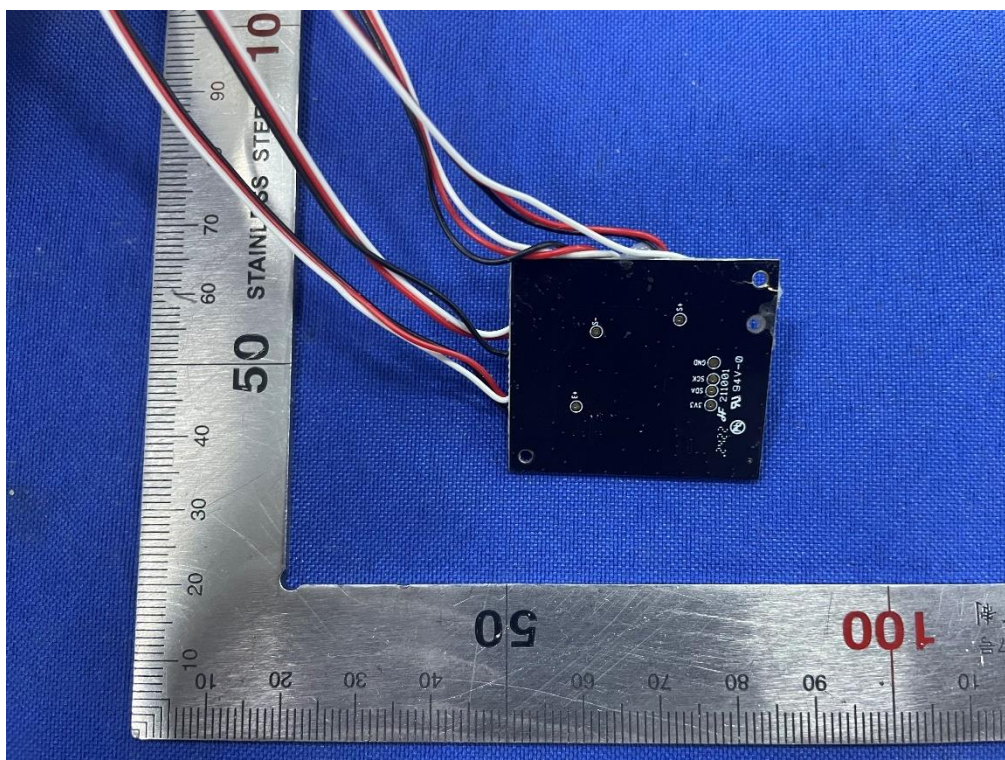
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Internal-8 of the sample



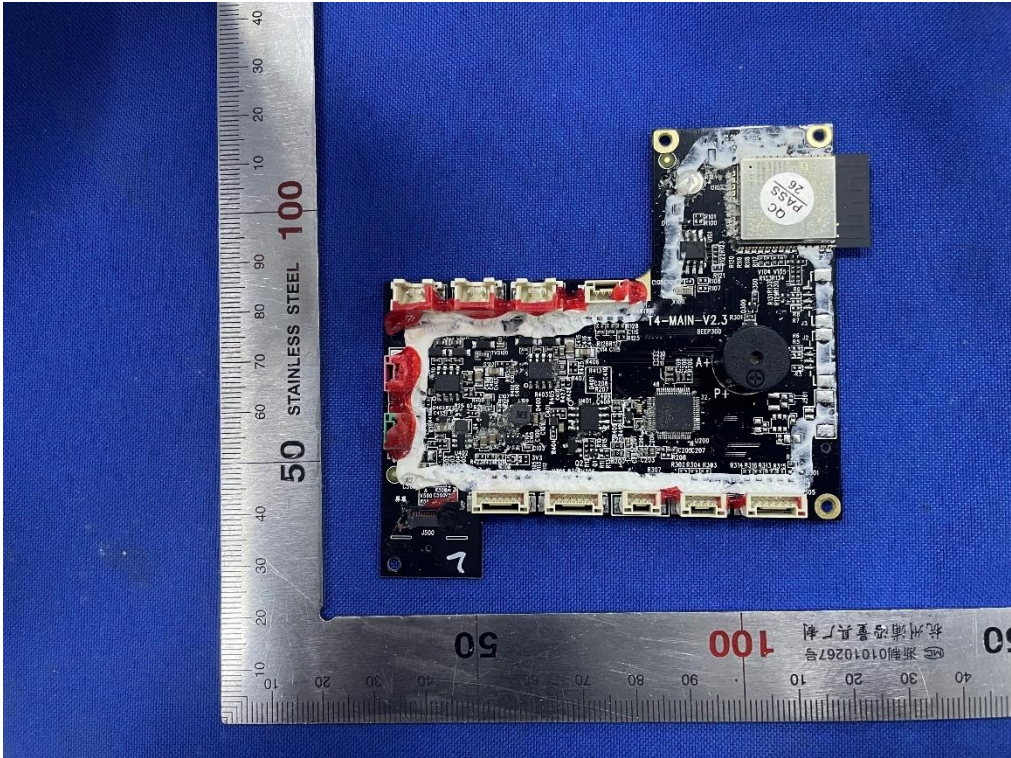
Internal-9 of the sample

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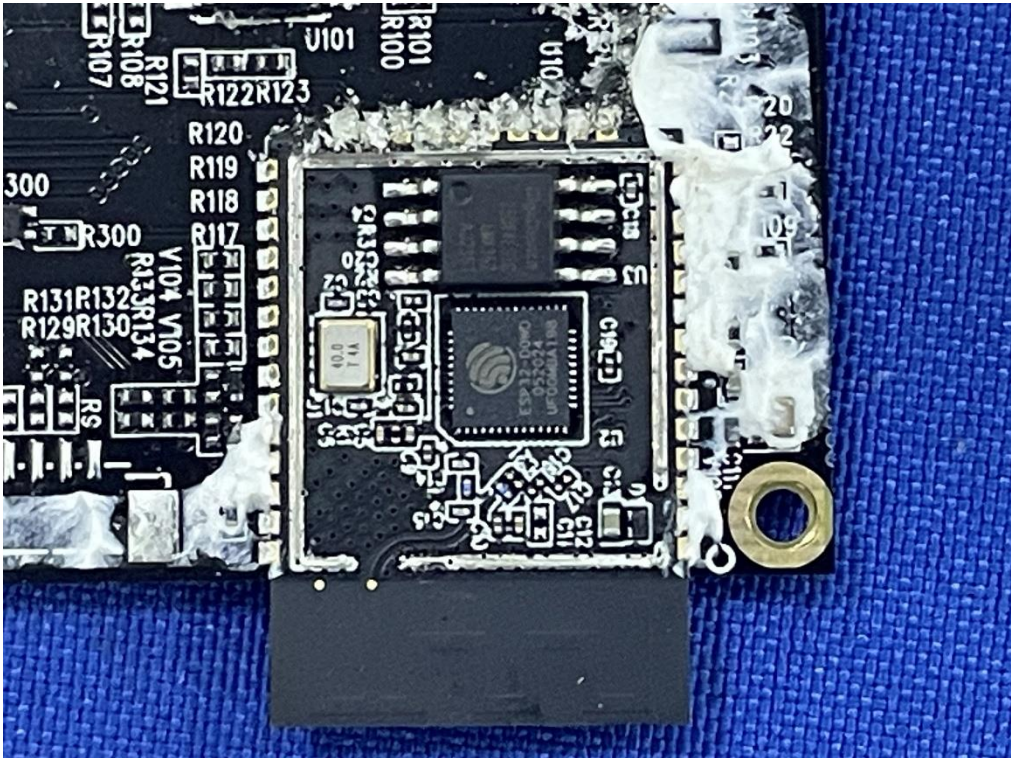
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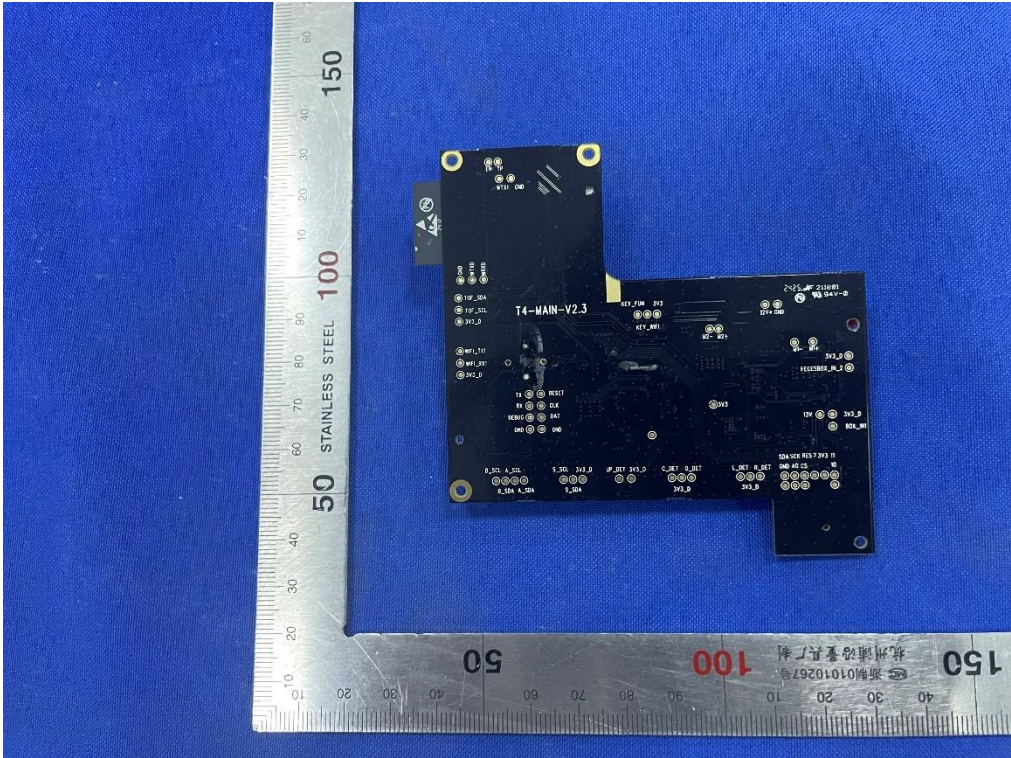


Internal-10 of the sample

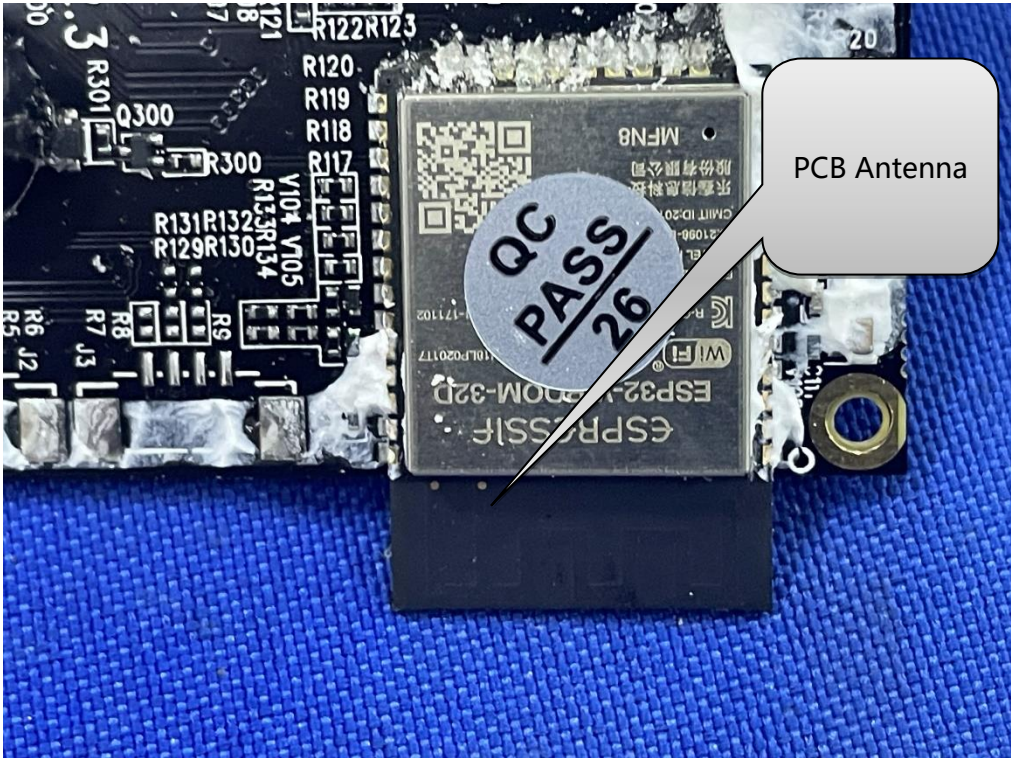


Internal-11 of the sample

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Internal-12 of the sample



Antenna Position

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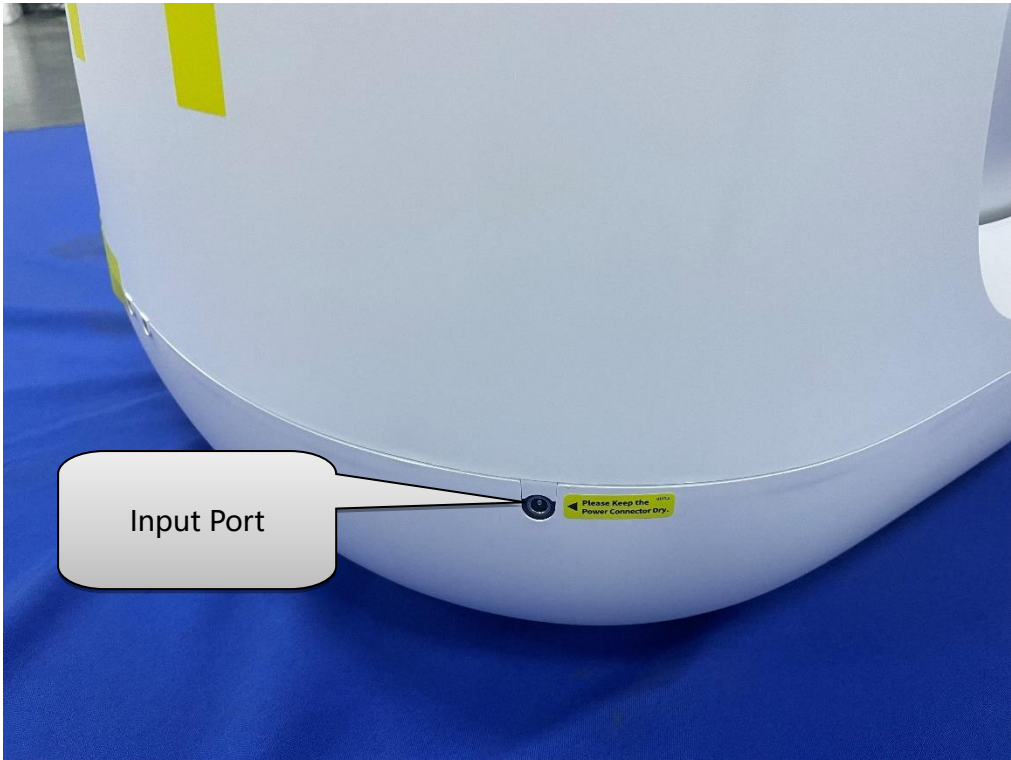
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Adapter-Front



Input Port of the sample
End of the report