

# MPE TEST REPORT

Report No.: SHE24060074-02FE

Date: 2024-08-30

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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 PUROBOT ULTRA WITH CAMERA  
SELF-CLEANING CAT LITTER BOX

**Brand Name** : PETKIT  
**Model Name** : P9903  
**Sample Acquisition Method** : Sent by Client

**Sample No.** : E24060074-01#01  
E24060074-01#08

**FCC ID** : 2A72NP9903

**Standard** : FCC Part 2.1091

**Date of Receipt** : 2024-07-04  
**Date of Test** : 2024-08-14~ 2024-08-30  
**Date of Issue** : 2024-08-30

**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 PUROBOT ULTRA WITH CAMERA SELF-CLEANING CAT LITTER BOX
Brand Name	PETKIT
Test Model Name	P9903
FCC ID	2A72NP9903
Mode of Operation	WLAN 802.11b/g/n(HT20)
Frequency Range	2400~2483.5
Modulation Type	DSSS, OFDM
Antenna Type	Internal Antenna

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Antenna Gain	3.70dBi
Hardware version	V1.0
Software version	2.49

## 2 Maximum Permissible Exposure (MPE)

### 2.1 Limits

According to FCC Part 1.1307, 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—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>(A) 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>(B) 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

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

## 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> )
WLAN 2.4GHz	2400~2483.5	15.08	3.70	75.51	0.15021	1.0

### Note(s):

1. For 300 – 1,500MHz: Power Density limit is  $f/1500$  mW/cm<sup>2</sup>
2. 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.

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## 3 Appendixes

### 3.1 Sample Photograph



All of the sample



Front of the sample

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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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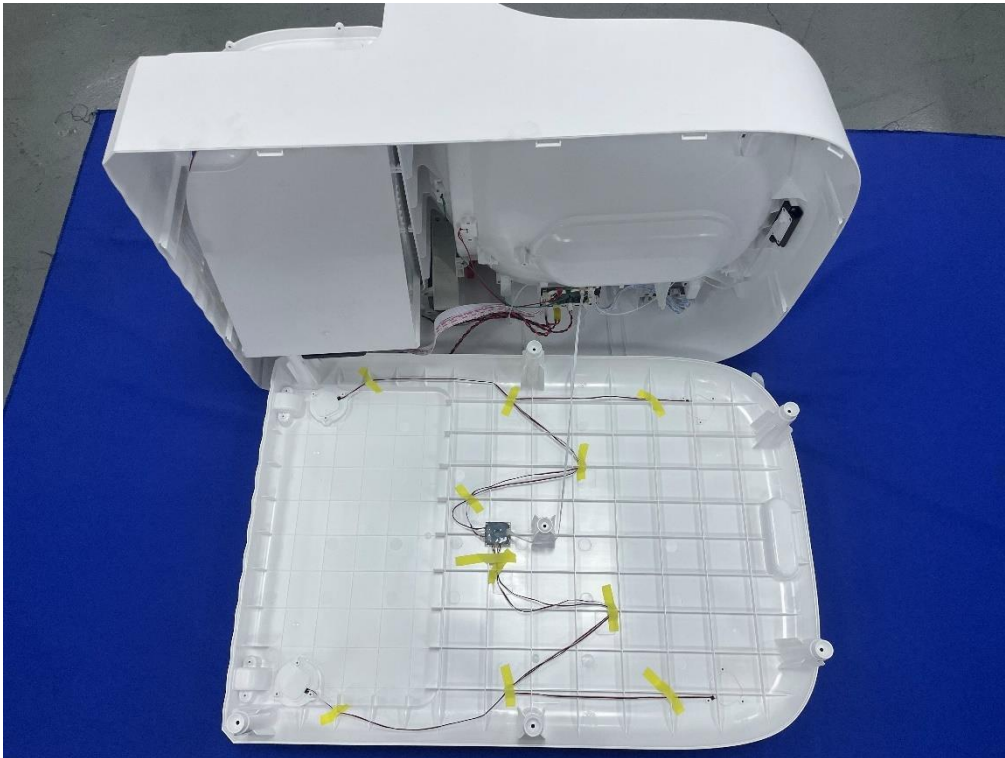
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Bottom of the sample



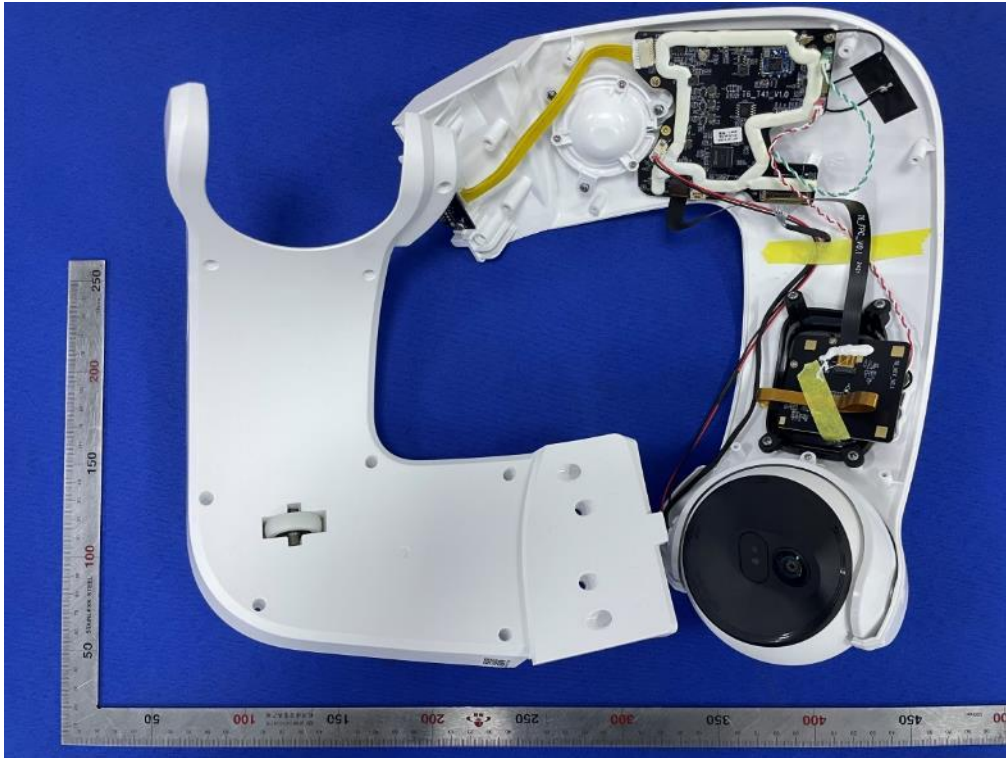
Open-1 of the sample

# MPE TEST REPORT

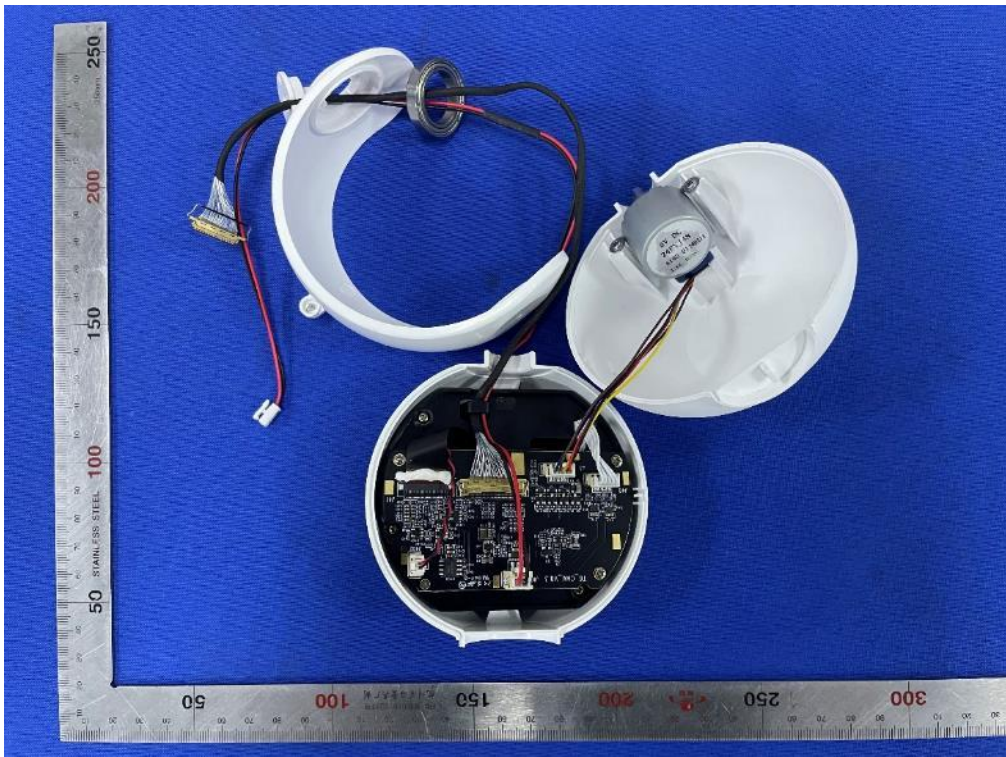
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Open-2 of the sample



Open-3 of the sample

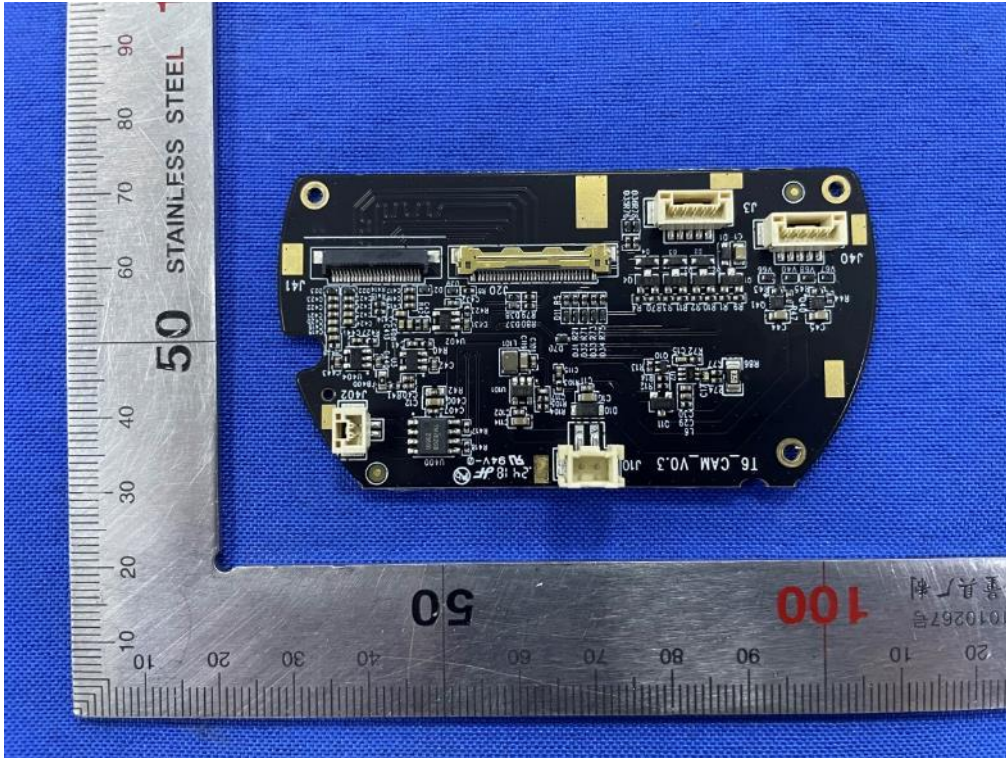


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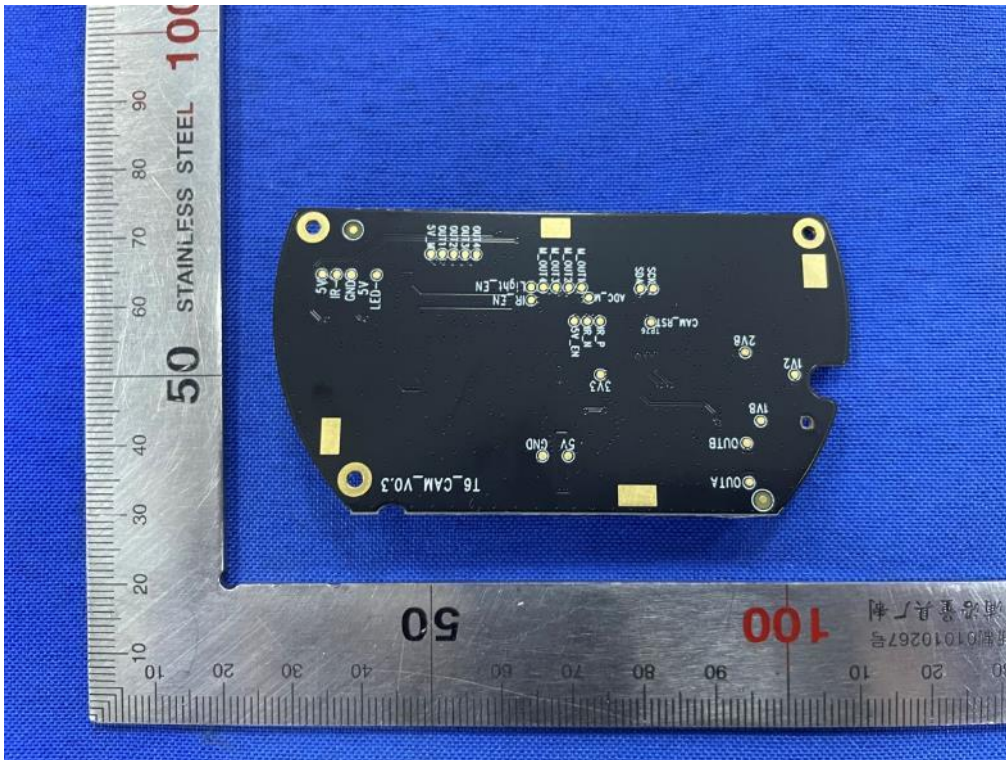
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Internal-1 of the sample



Internal-2 of the sample

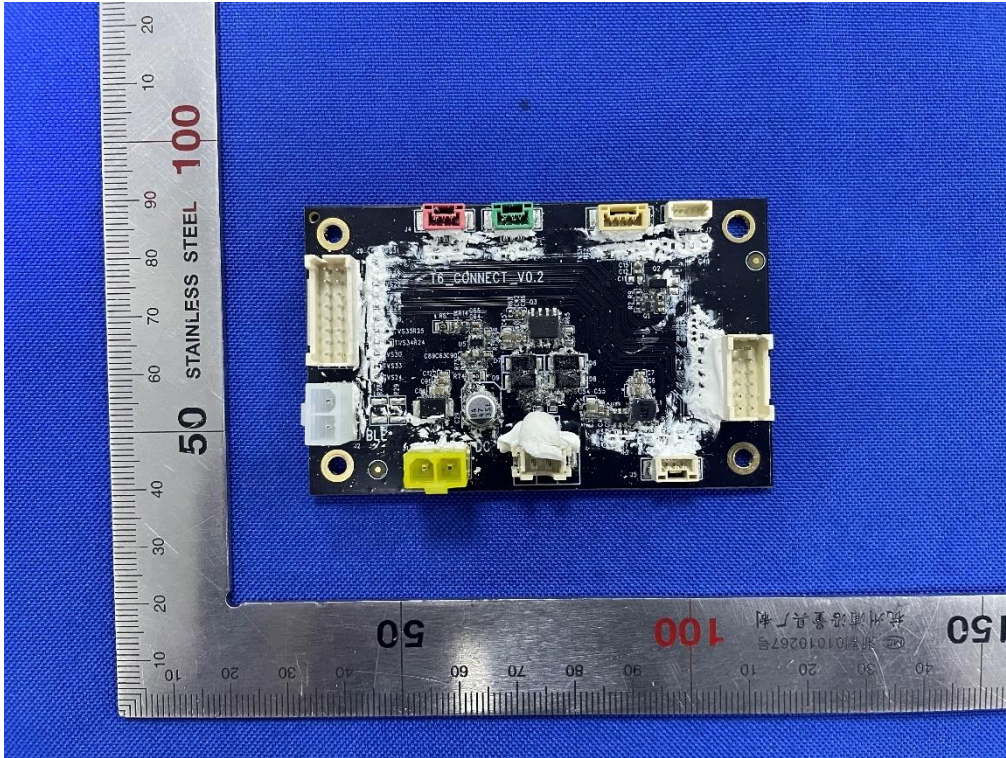


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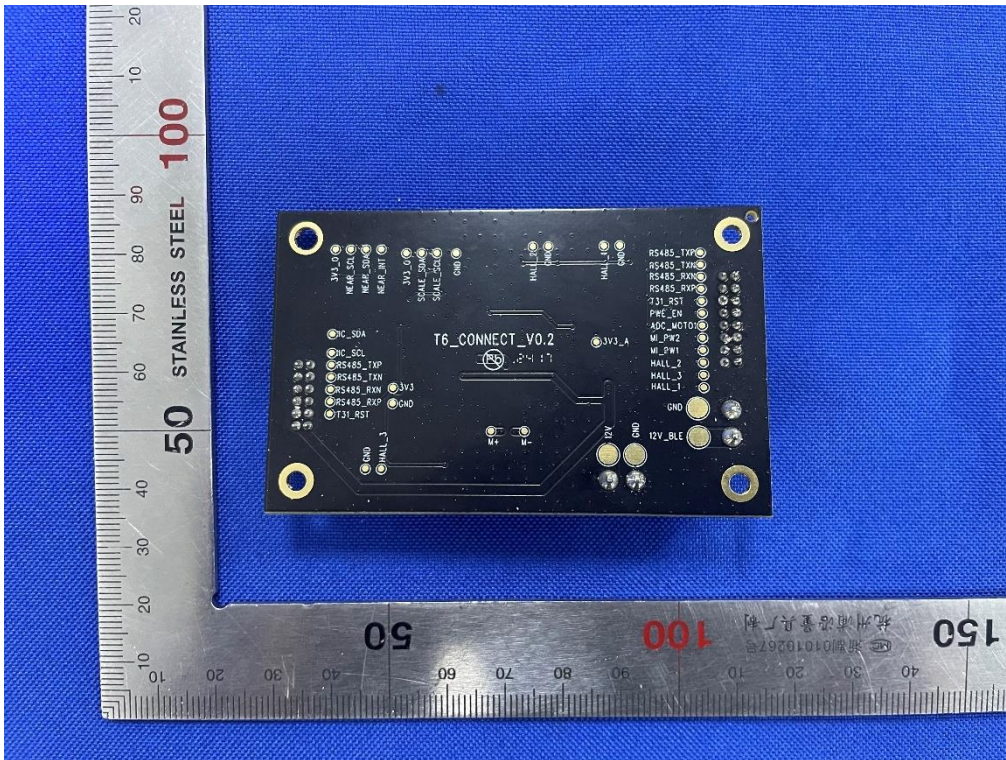
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Internal-3 of the sample



Internal-4 of the sample

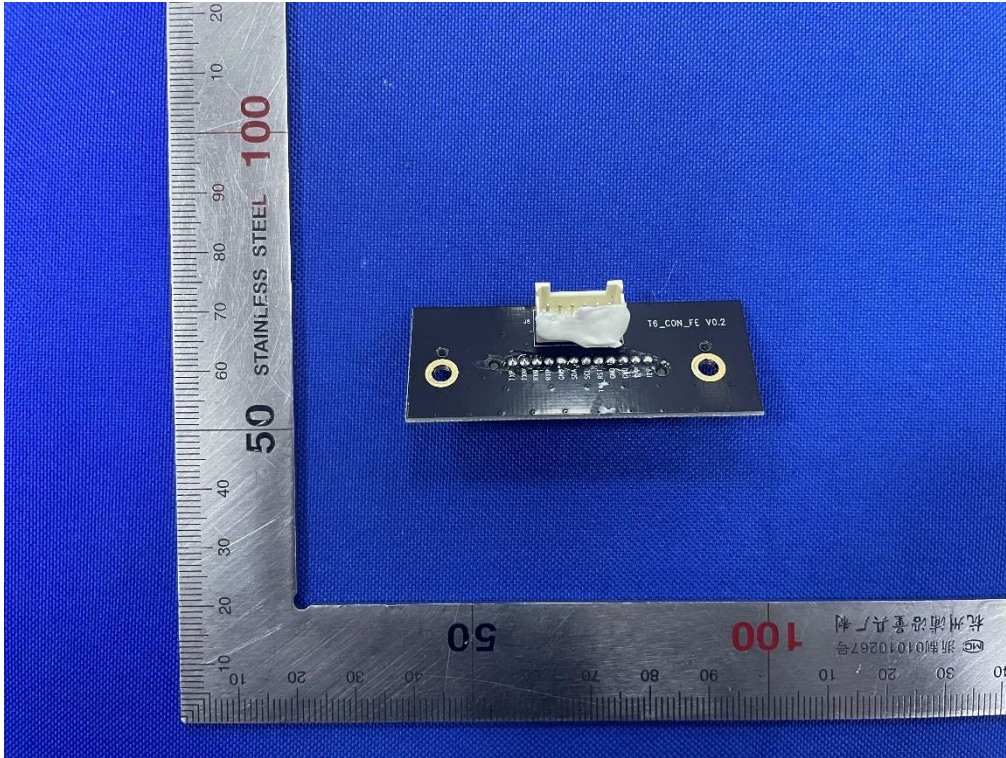


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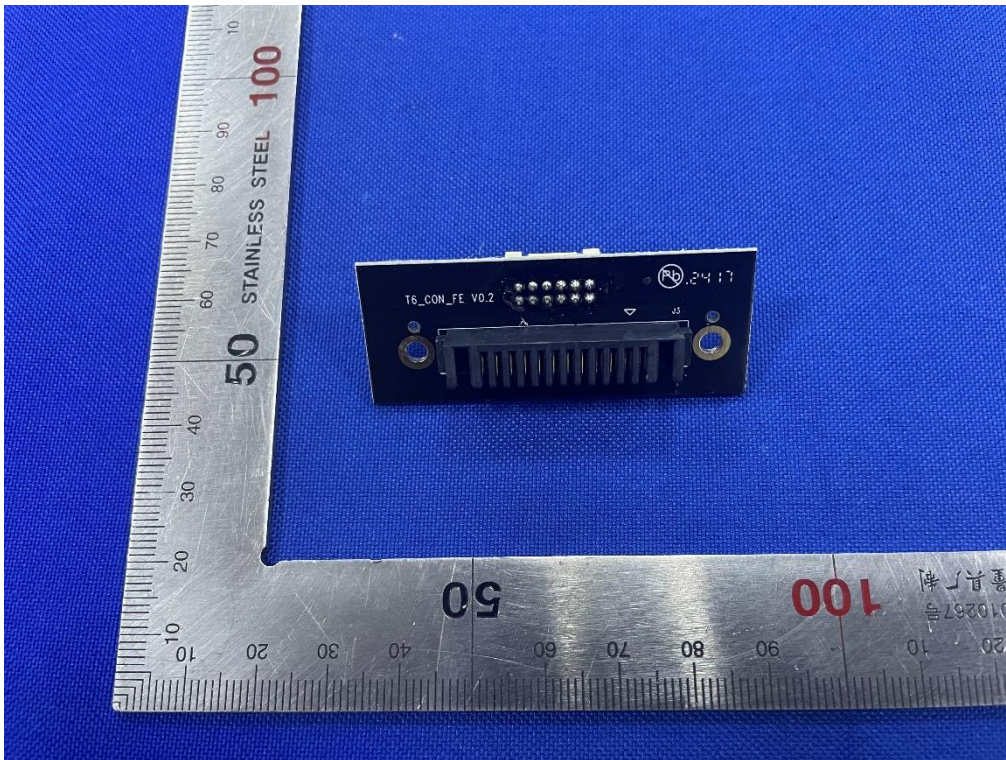
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Internal-5 of the sample



Internal-6 of the sample

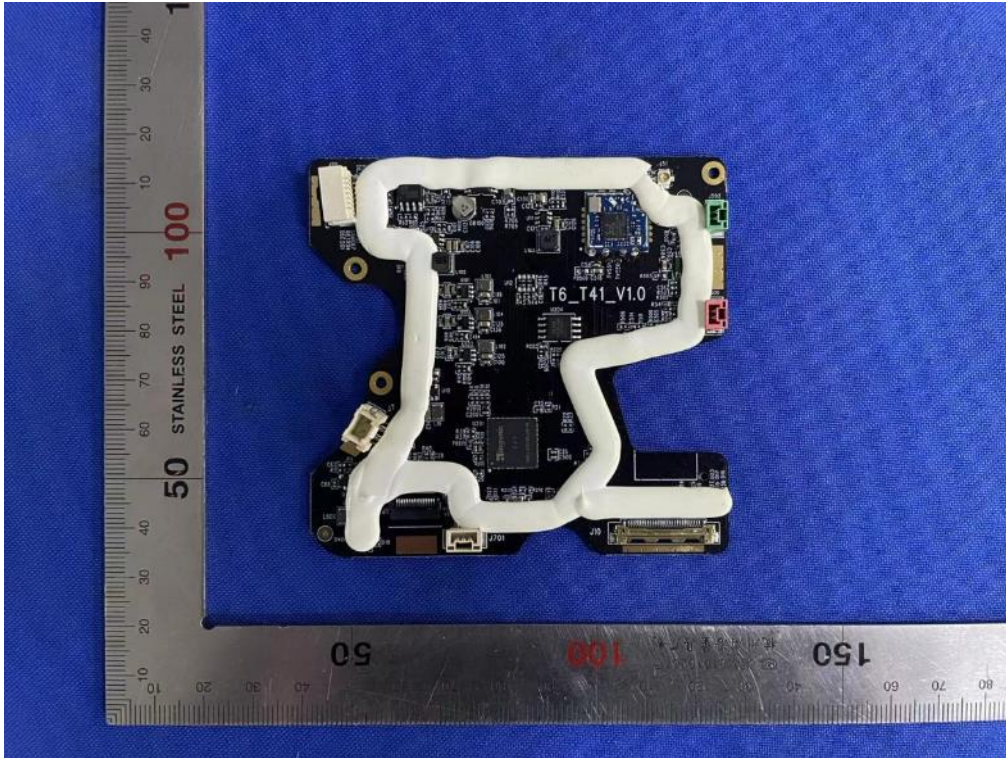


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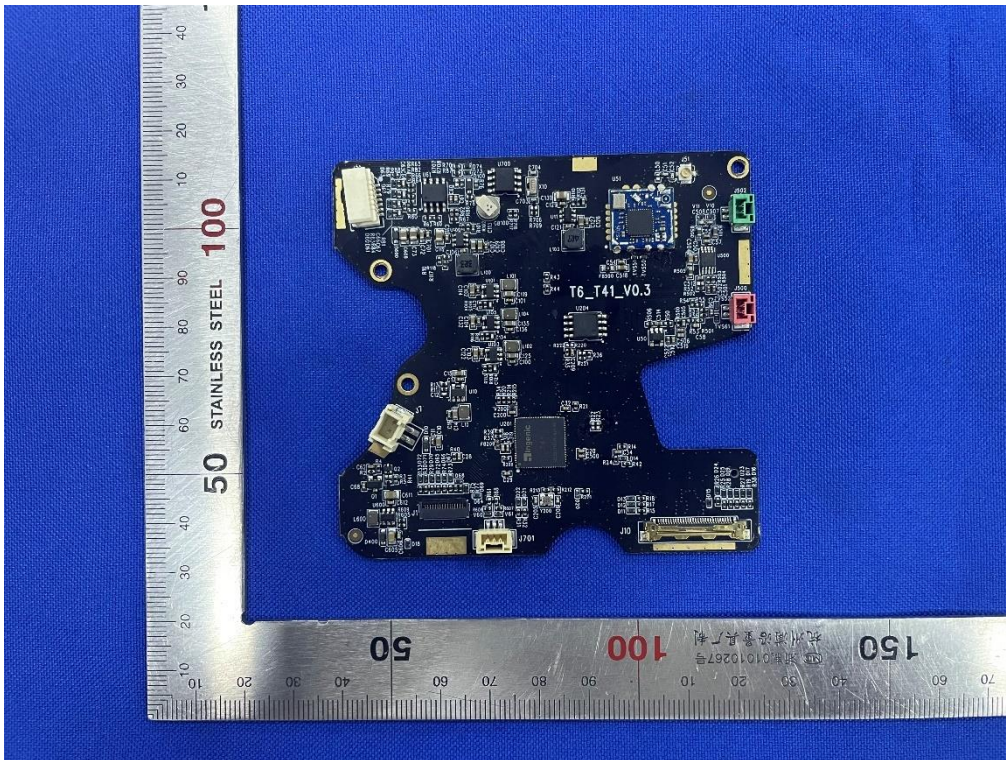
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Internal-7 of the sample



Internal-8 of the sample





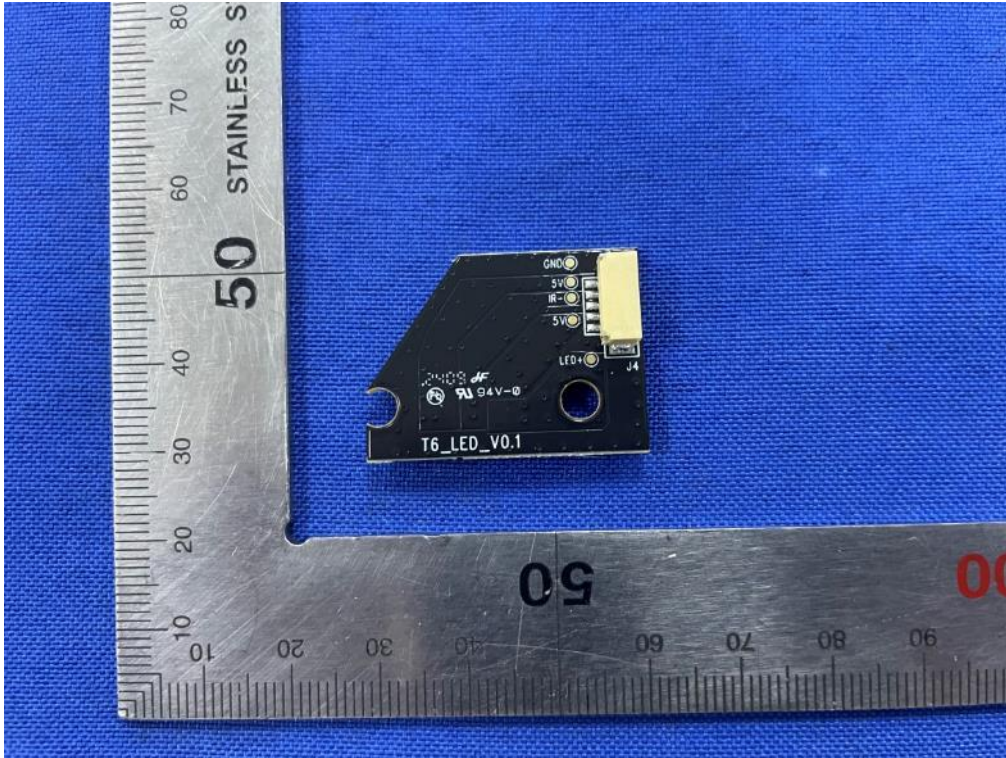


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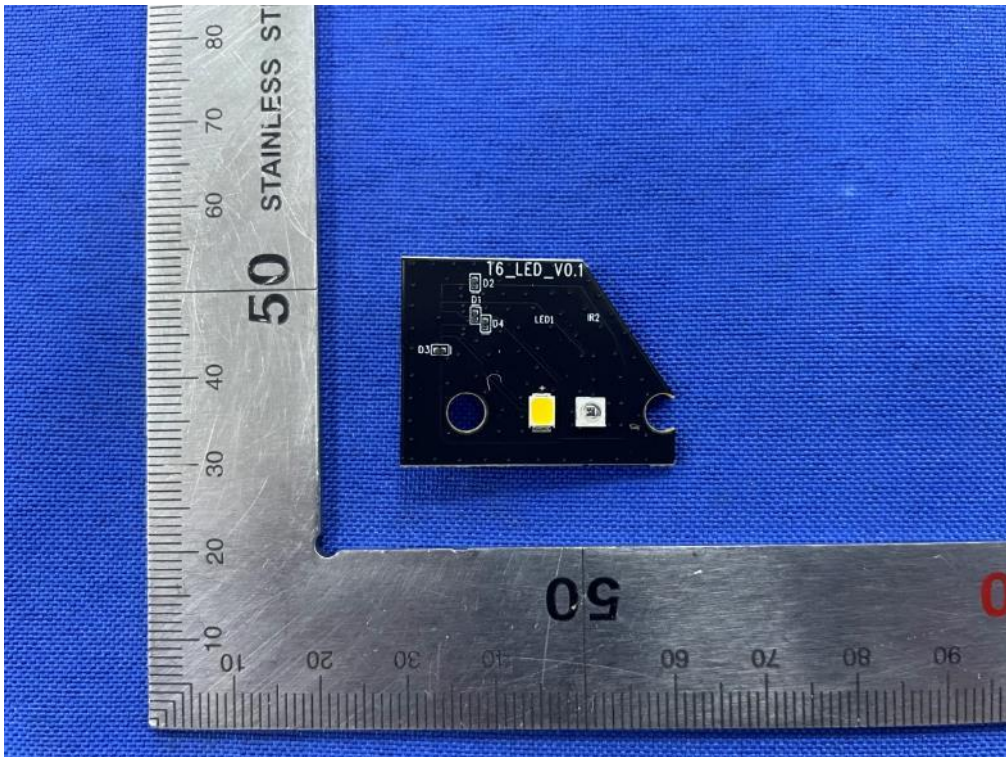
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Internal-11 of the sample



Internal-12 of the sample

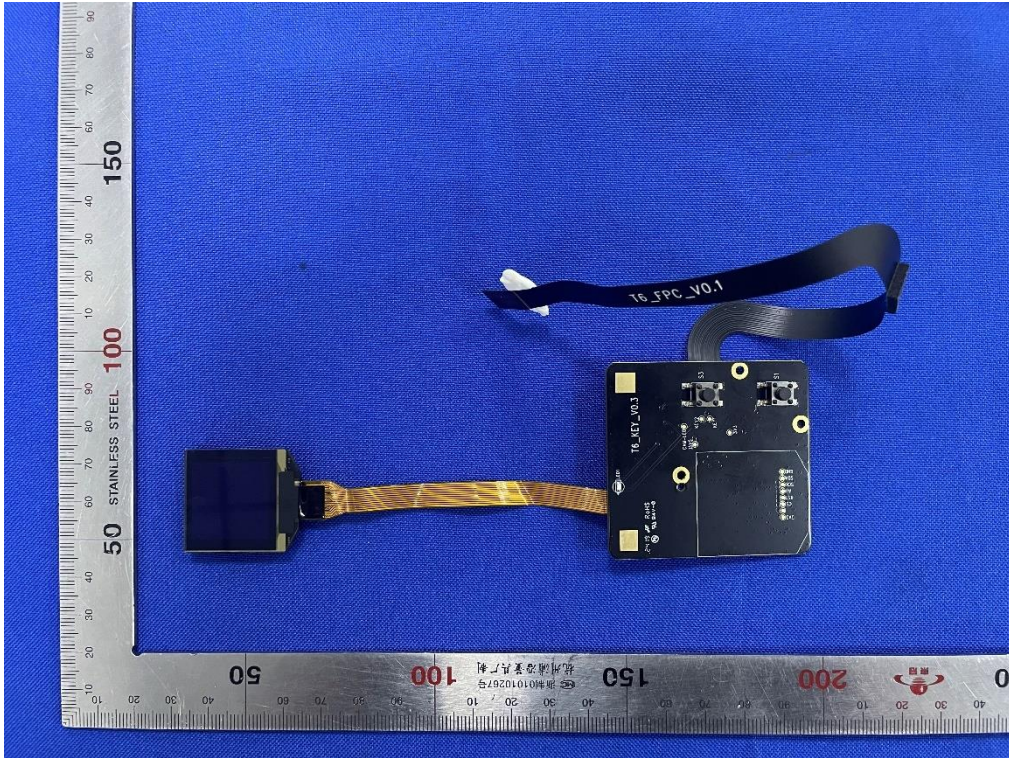


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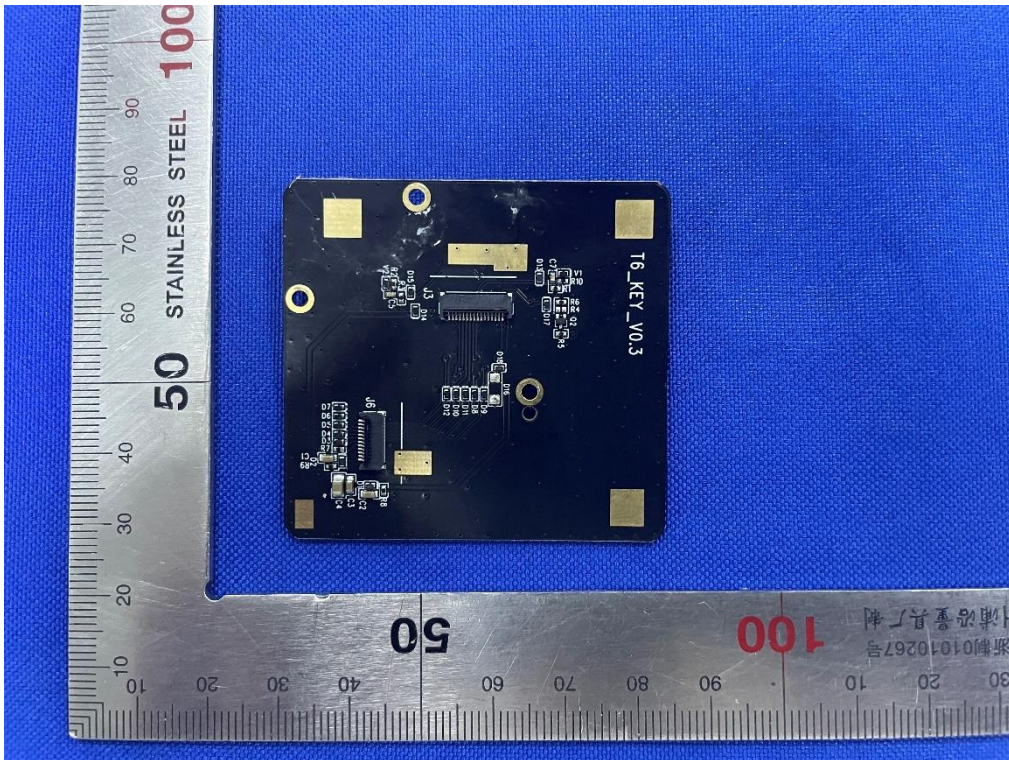
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Internal-13 of the sample



Internal-14 of the sample

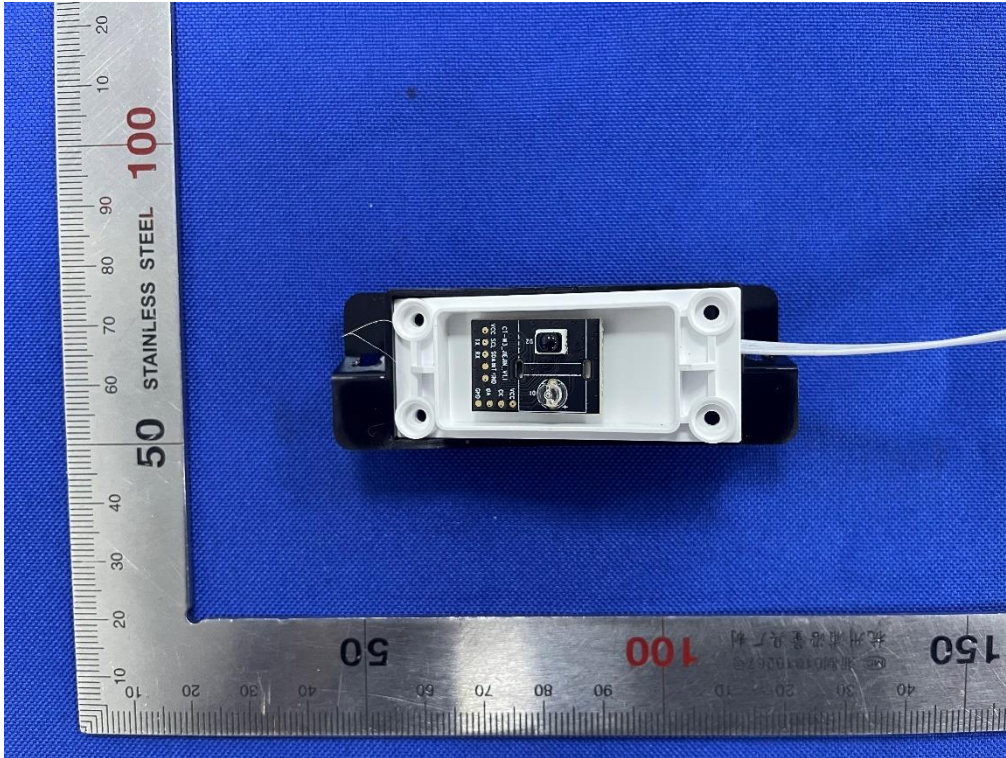


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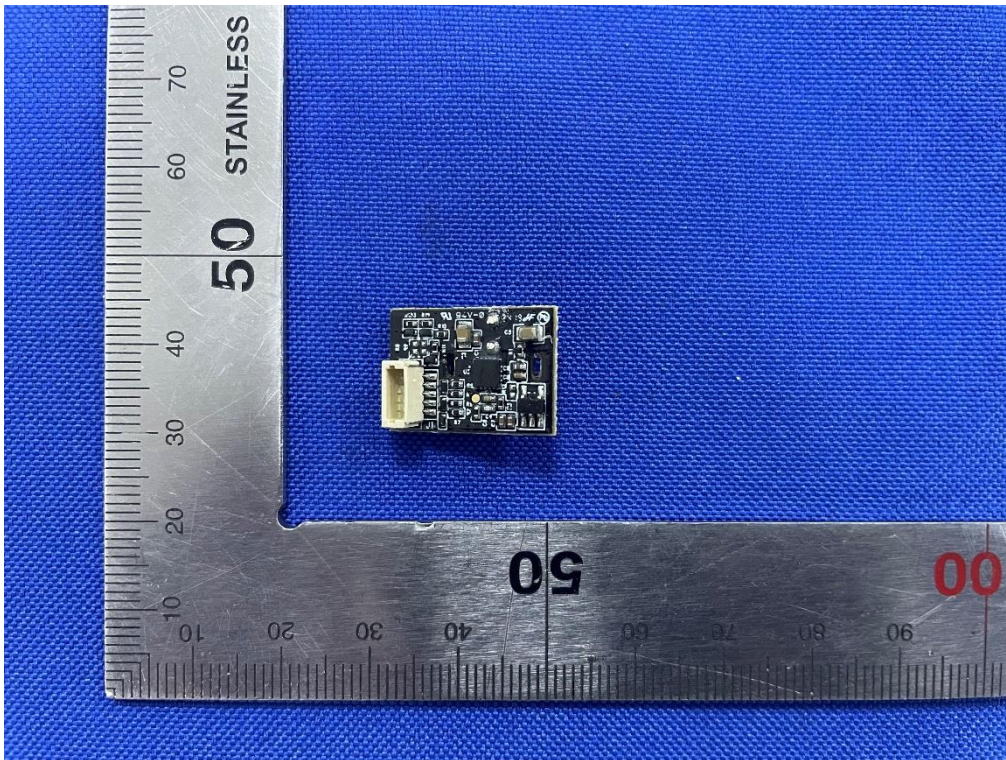
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Internal-15 of the sample



Internal-16 of the sample

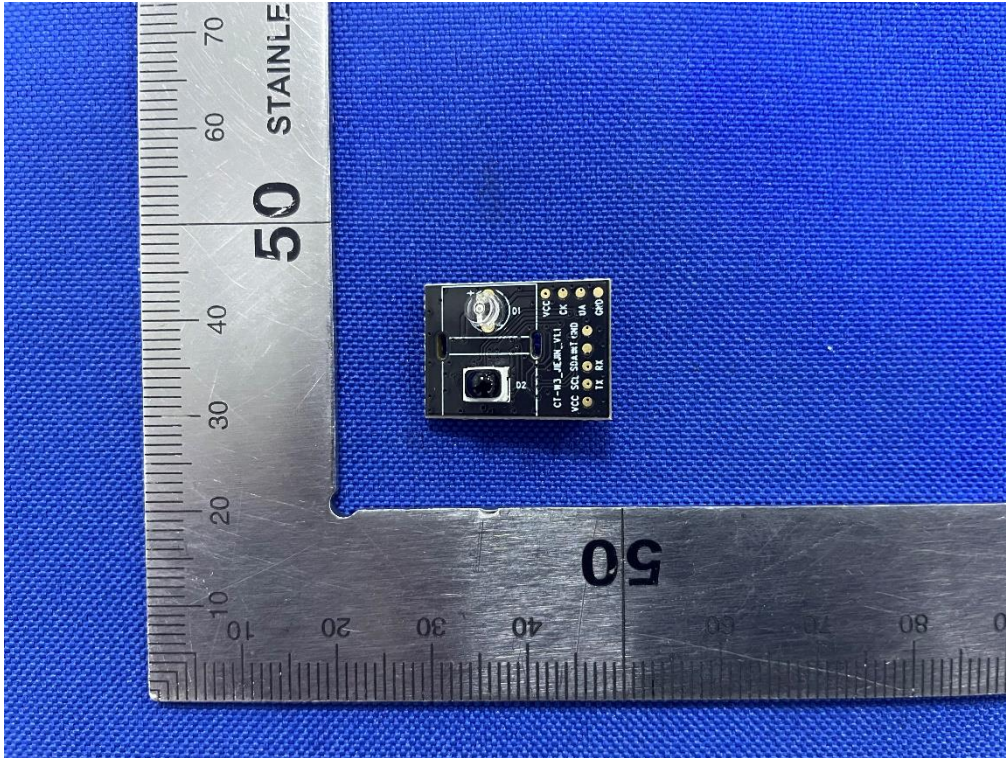


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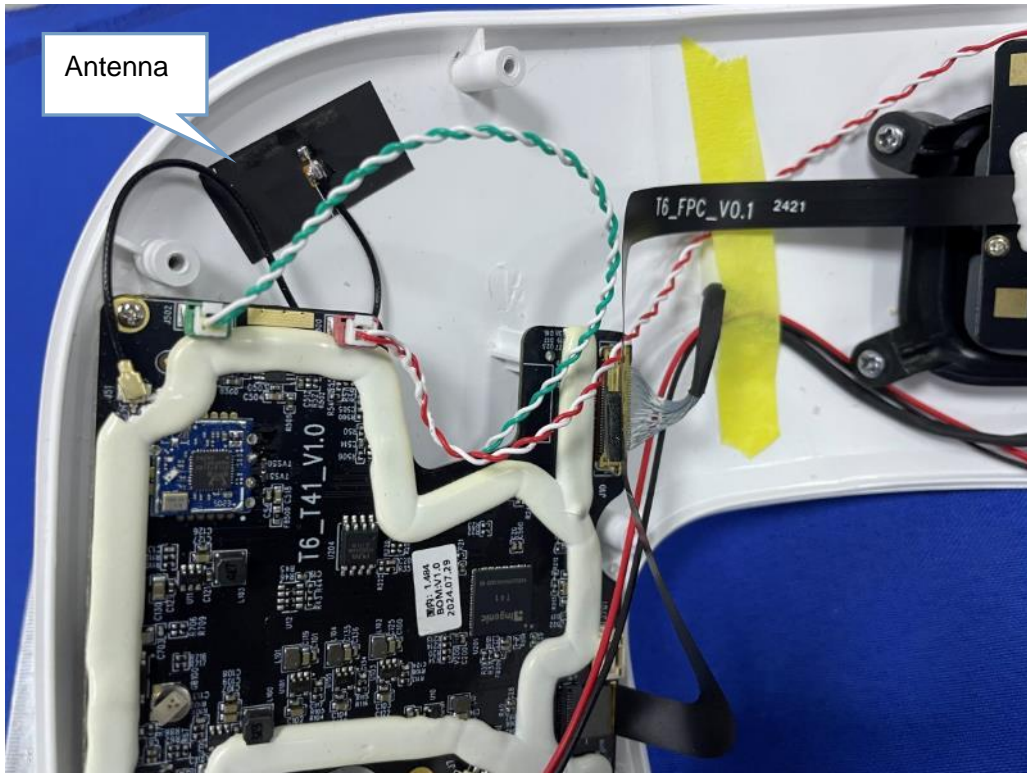
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Internal-17 of the sample



Antenna position

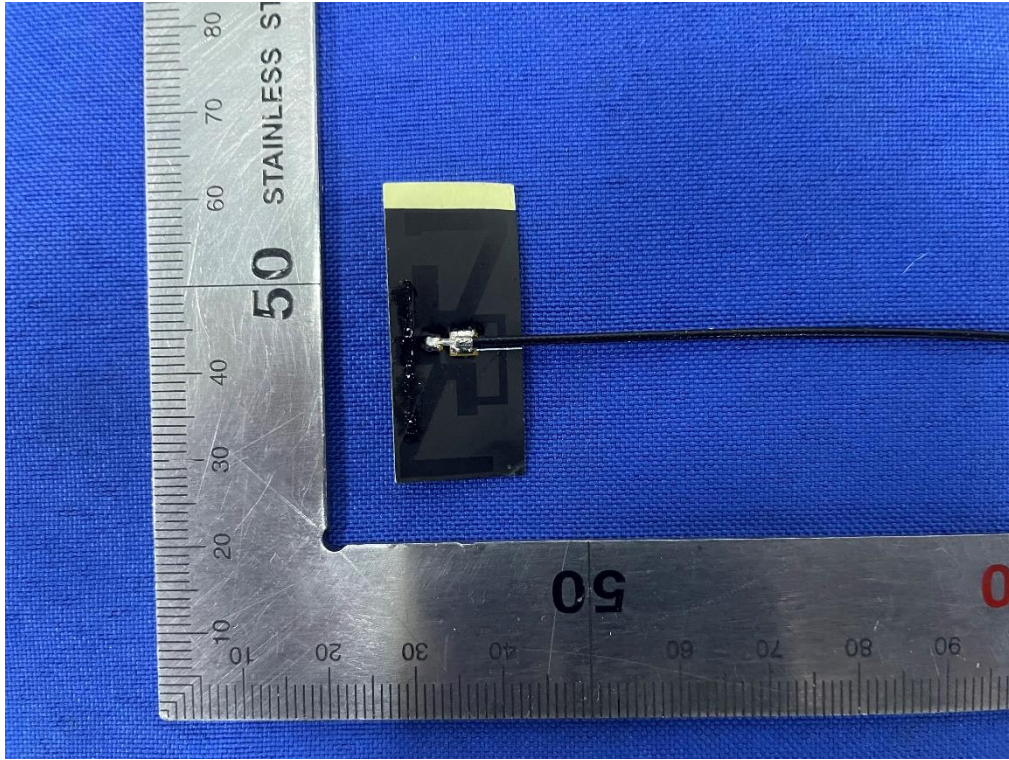


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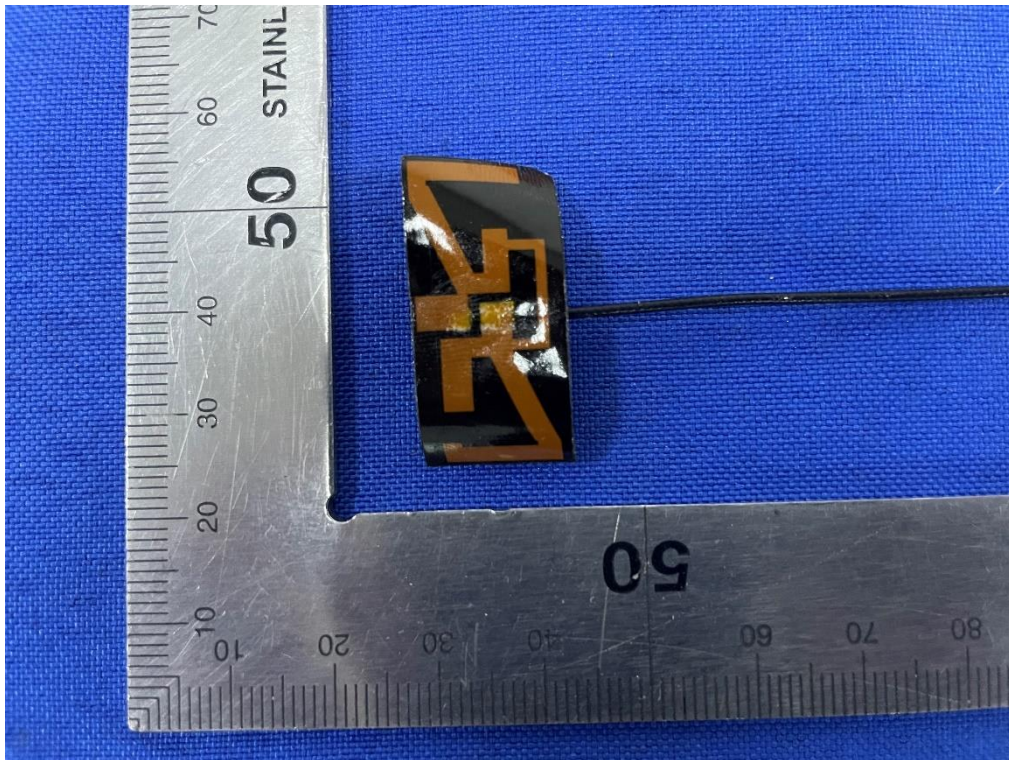
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Antenna Photo-1



Antenna Photo-2

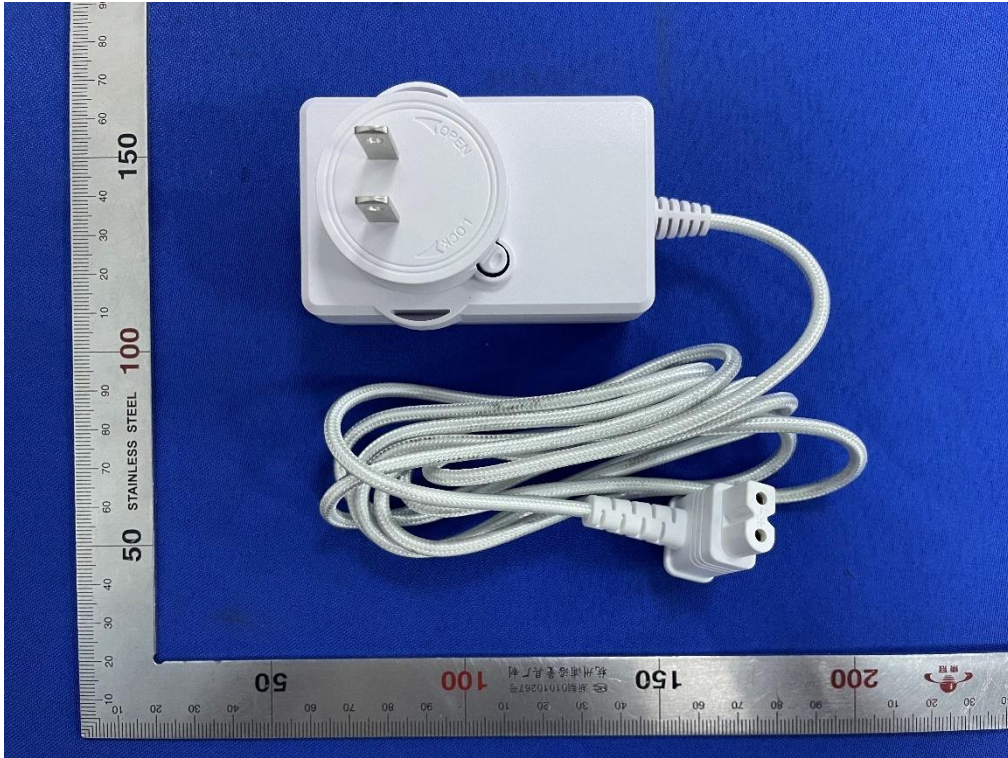


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Adapter-1



Adapter-2

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