

MPE TEST REPORT

Report No.: SHE25070047-02GE

2025-09-09

Page 1 of 20

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

Product Name : PETKIT PUROBOT™ CRYSTAL DUO WITH CAMERA
SELF-CLEANING CAT LITTER BOX

Brand Name : PETKIT
Model Name : P9905
Sample Acquisition Method : Sent by Client

Sample No. : E25070047-01#04
E25070047-01#06

FCC ID : 2A72N-P9905

Standard : FCC Part 2.1091

Date of Receipt : 2025-07-18
Date of Test : 2025-07-22~ 2025-09-09
Date of Issue : 2025-09-09

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

Contents

1	GENERAL INFORMATION	3
1.1	TESTING LABORATORY	3
1.2	DETAILS OF APPLICATION	3
1.3	DETAILS OF EUT	3
2	MAXIMUM PERMISSIBLE EXPOSURE (MPE)	4
2.1	LIMITS	4
2.2	ASSESSMENT METHODS	5
2.3	TEST RESULT	5
2.4	RESULTS FOR TRANSMIT SIMULTANEOUSLY	5
2.5	CONCLUSION	6
3	APPENDIXES	7
3.1	SAMPLE PHOTOGRAPH.....	7

MPE TEST REPORT

Report No.: SHE25070047-02GE

2025-09-09

Page 3 of 20

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	PETKIT Network Technology (Shanghai) Co., Ltd.
Applicant Company Address	Room 4139, Building 2, 588 Zixing Road, Minhang District, Shanghai
Contact Person	TingHe
Telephone	+86 13916991059
Email	ting.he@petkit.com
Manufacturer Company Name	Dongguan Zhihang Electronic Technology Co., LTD.
Manufacturer Company 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.
Factory Company Address	Room 701, Building 15, No.1, Pushi Road I, Qiaotou Town, Dongguan City,Guangdong Province, China.

1.3 Details of EUT

Product Name	PETKIT PUROBOT™ CRYSTAL DUO WITH CAMERA SELF-CLEANING CAT LITTER BOX	
Brand Name	PETKIT	
Test Model Name	P9905	
FCC ID	2A72N-P9905	
Mode of Operation	WLAN 802.11b/g/n(HT20) for 2.4GHz WLAN 802.11a/n(HT20) for 5GHz Bluetooth LE NFC	
Frequency Range	Mode	Frequency (MHz)
	802.11b/g/n(HT20)	2412~2462
	802.11a/n(HT20))	5180~5240
		5745~5825
	Bluetooth LE	2402~2480
	NFC	13.56
Modulation Type	DSSS/OFDM for WLAN 2.4GHz and OFDM for WLAN 5GHz	

MPE TEST REPORT

Report No.: SHE25070047-02GE

2025-09-09

Page 4 of 20

	GFSK for Bluetooth LE ASK for NFC
Antenna Type	Internal Antenna for Wi-Fi PCB Antenna for Bluetooth LE PCB Antenna for NFC
Antenna Gain	WLAN 2.4G: 3.90dBi WLAN 5G: 3.90dBi Bluetooth LE: -5.45dBi
Hardware Version	V1.0
Software Version	V1.0

1. The above information was declared by the manufacture.
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 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.

MPE TEST REPORT

Report No.: SHE25070047-02GE

2025-09-09

Page 5 of 20

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)

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	15.15	3.90	80.35	0.015984	1.0
WLAN 5GHz	5180~5240	14.45	3.90	68.39	0.013605	1.0
	5745~5825	15.67	3.90	90.57	0.018017	1.0
BLE	2402~2480	2.09	-5.45	0.46	0.000092	1.0

NFC Max. Field Strength of Fundamental is [63.68dBuV/m@3m](#)

Operation Mode	Frequency Range (MHz)	Field Strength of Fundamental (dBuV/m@3m)	EIRP (dBm)	EIRP (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)
NFC	13.56	63.68	-31.52	0.00070469	0.00000014	0.98

Note: E[dBμV/m] = EIRP[dBm] + 95.2, for d = 3 m.

2.4 Results for transmit simultaneously

Configurations	Maximum MPE Value (Ratio)				Limit
	WLAN 5GHz	BLE	NFC	Transmit Simultaneously	
WLAN 5GHz + BLE+NFC	0.018017	0.000092	0.000000143	0.018109143	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. Since Bluetooth LE and WIFI use different mainboards and antennas, so Bluetooth LE and WIFI can be transmit simultaneously.

3. MPE Ratios are Calculated as [(MPE1/Limit)+ (MPE2/Limit) +]≤1

MPE TEST REPORT

Report No.: SHE25070047-02GE

2025-09-09

Page 6 of 20

2.5 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.: SHE25070047-02GE

2025-09-09

Page 7 of 20

3 Appendixes

3.1 Sample Photograph



All of the sample



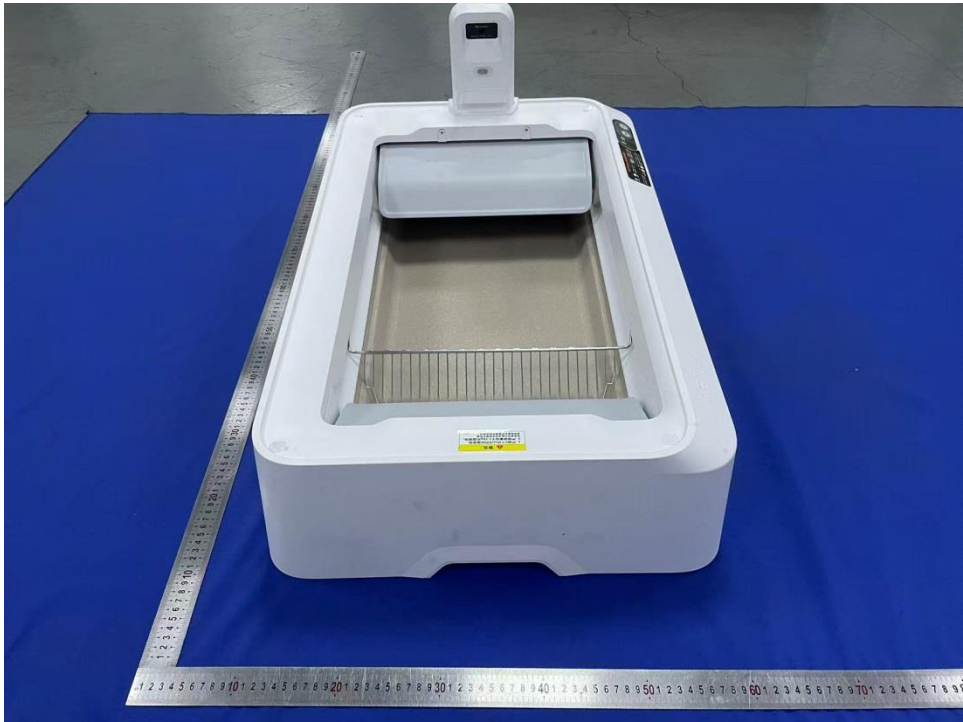
Add a sample with only color differences

MPE TEST REPORT

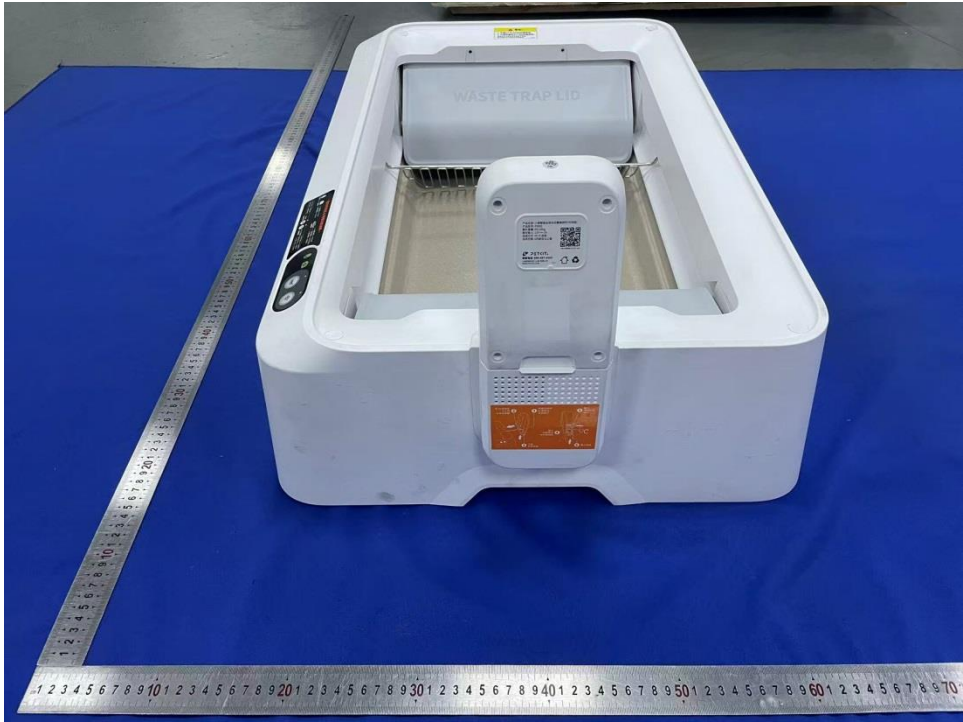
Report No.: SHE25070047-02GE

2025-09-09

Page 8 of 20



Front of the sample



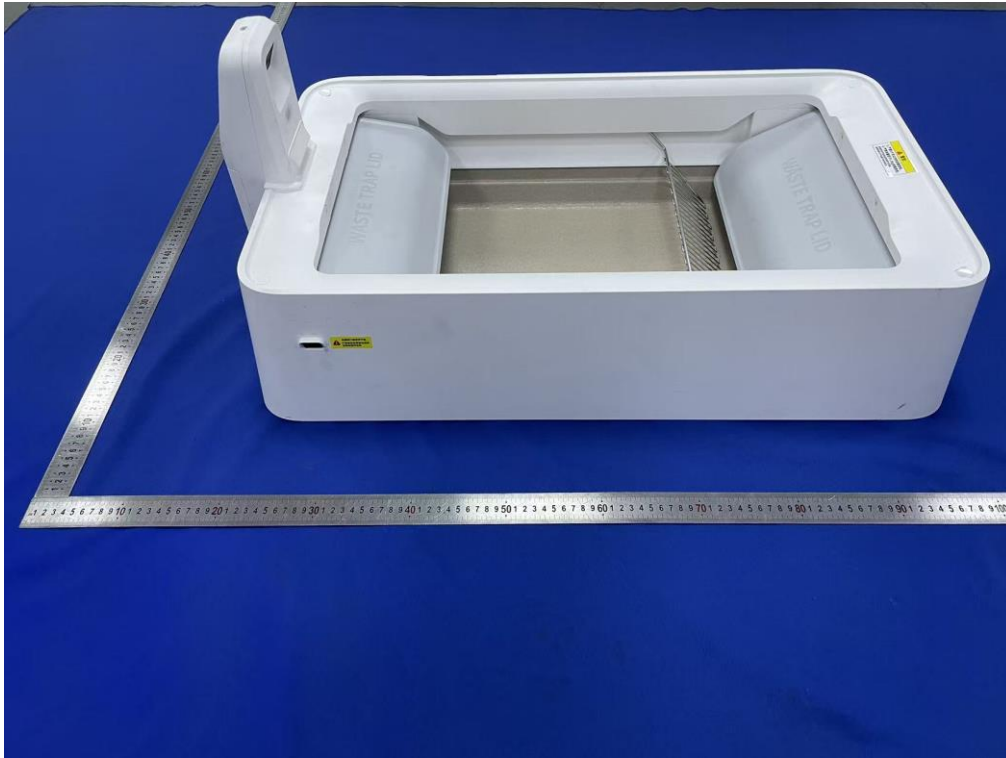
Rear of the sample

MPE TEST REPORT

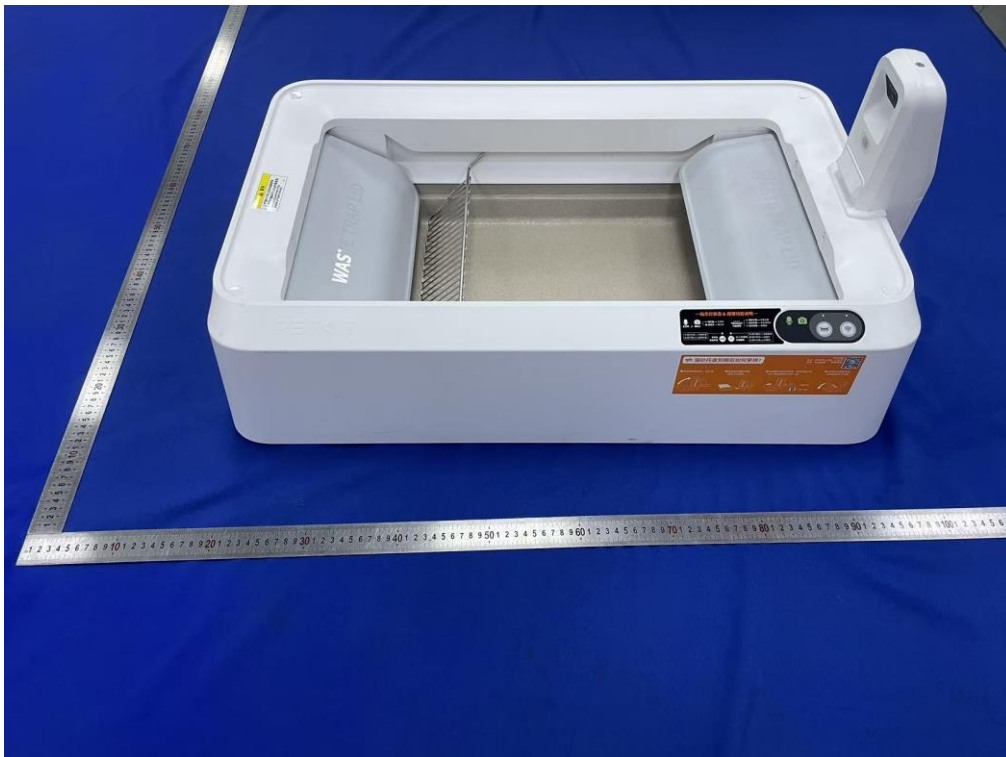
Report No.: SHE25070047-02GE

2025-09-09

Page 9 of 20



Left of the sample



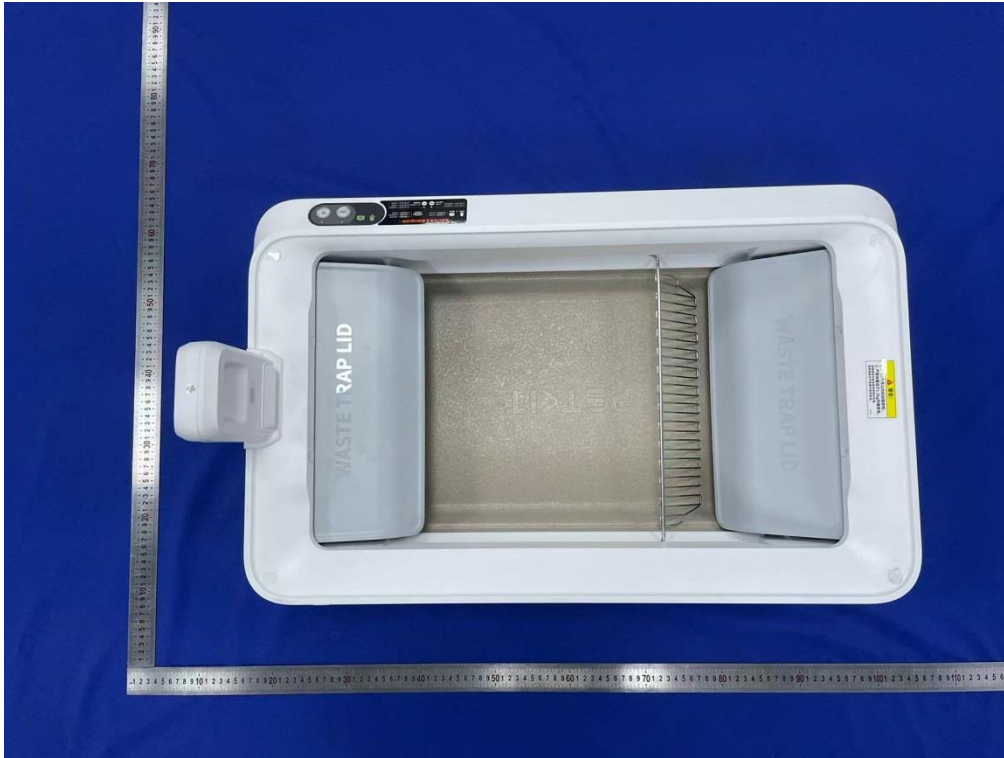
Right of the sample

MPE TEST REPORT

Report No.: SHE25070047-02GE

2025-09-09

Page 10 of 20



Top of the sample



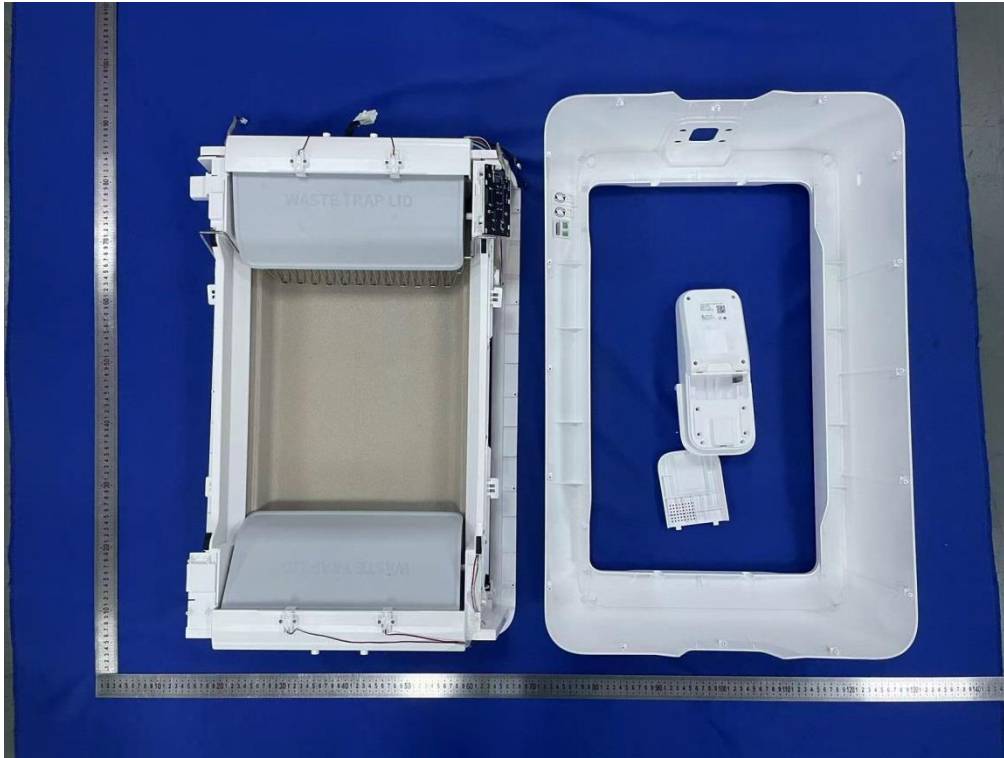
Bottom of the sample

MPE TEST REPORT

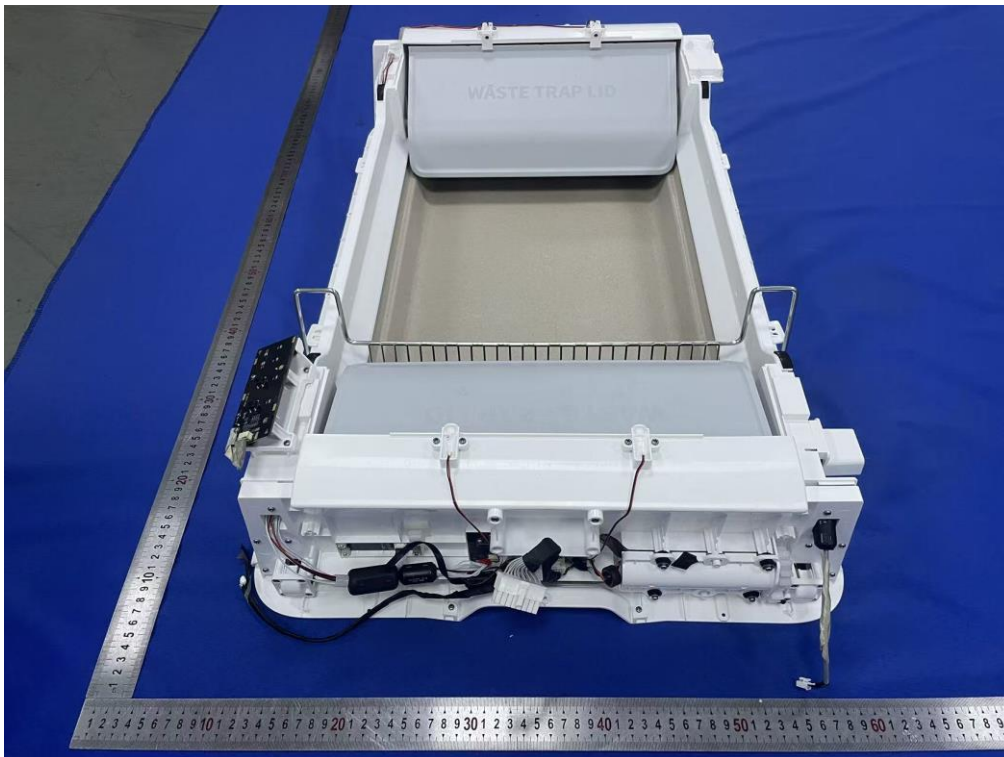
Report No.: SHE25070047-02GE

2025-09-09

Page 11 of 20



Open-1 of the sample



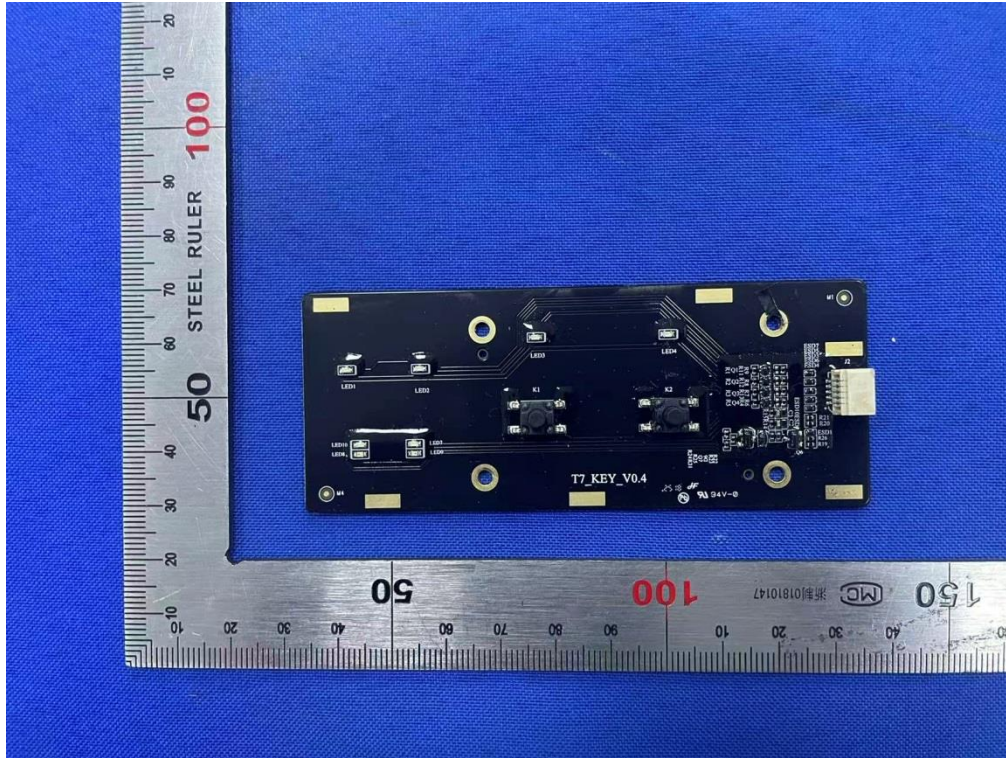
Open-2 of the sample

MPE TEST REPORT

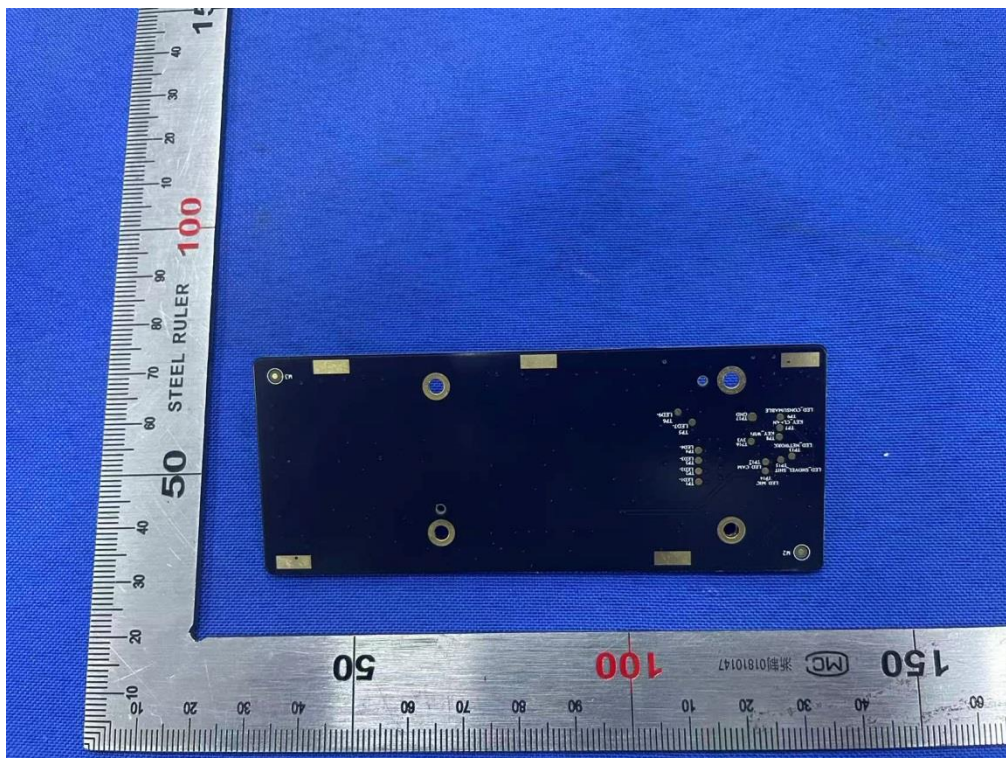
Report No.: SHE25070047-02GE

2025-09-09

Page 12 of 20



Internal-1 of the sample



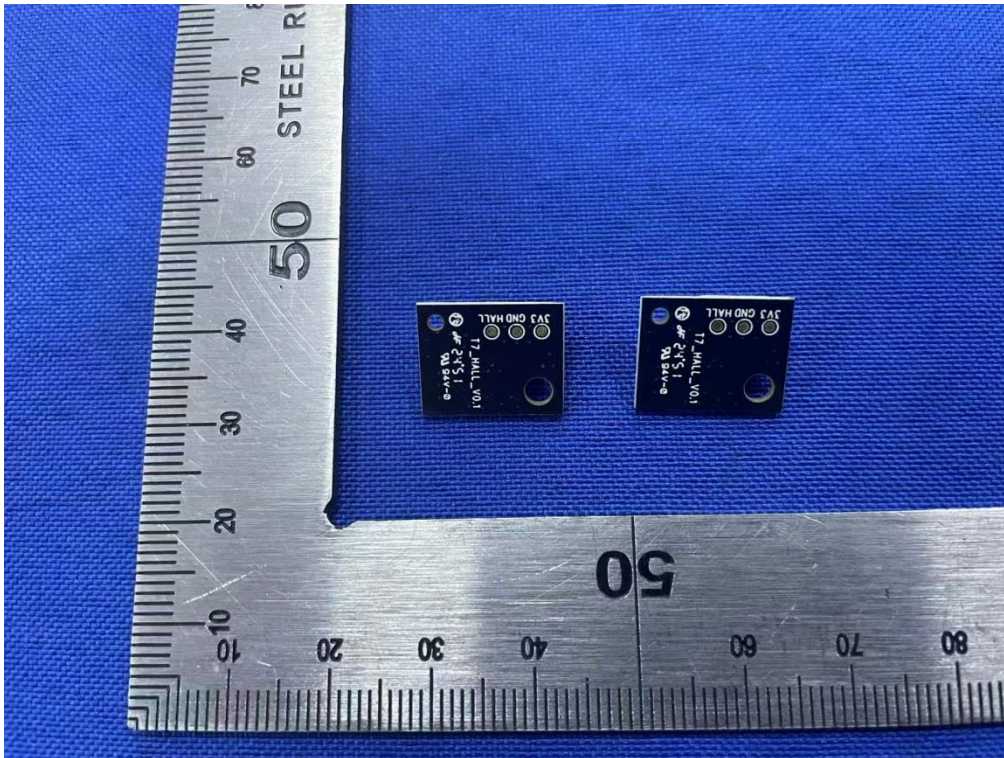
Internal-2 of the sample

MPE TEST REPORT

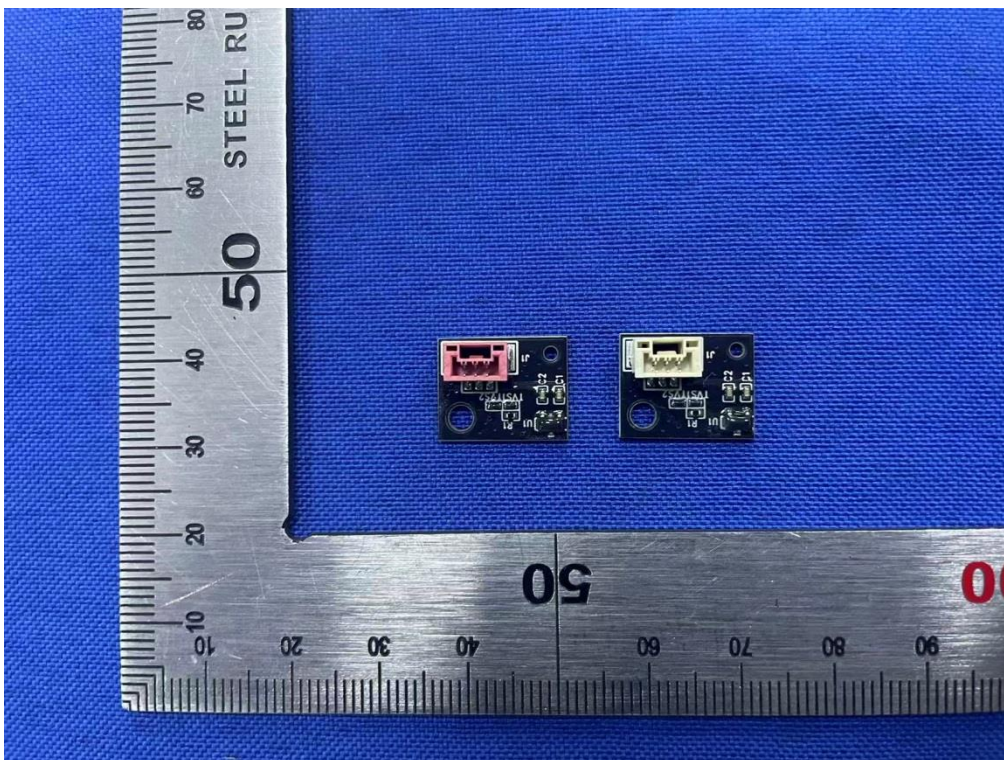
Report No.: SHE25070047-02GE

2025-09-09

Page 13 of 20



Internal-3 of the sample



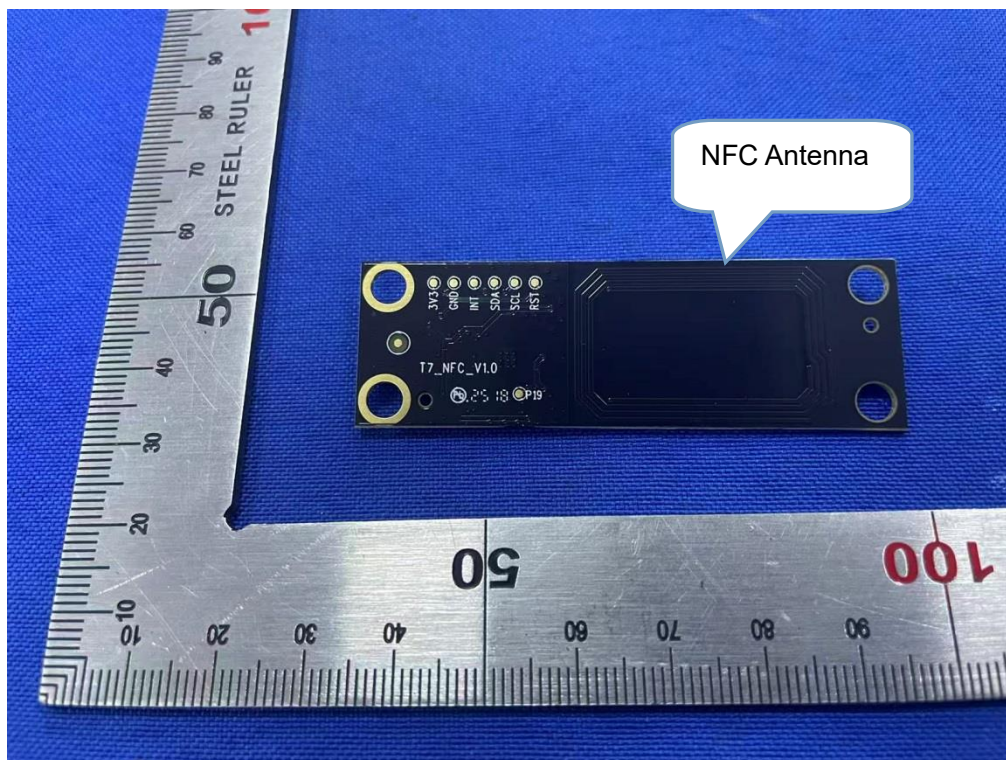
Internal-4 of the sample

MPE TEST REPORT

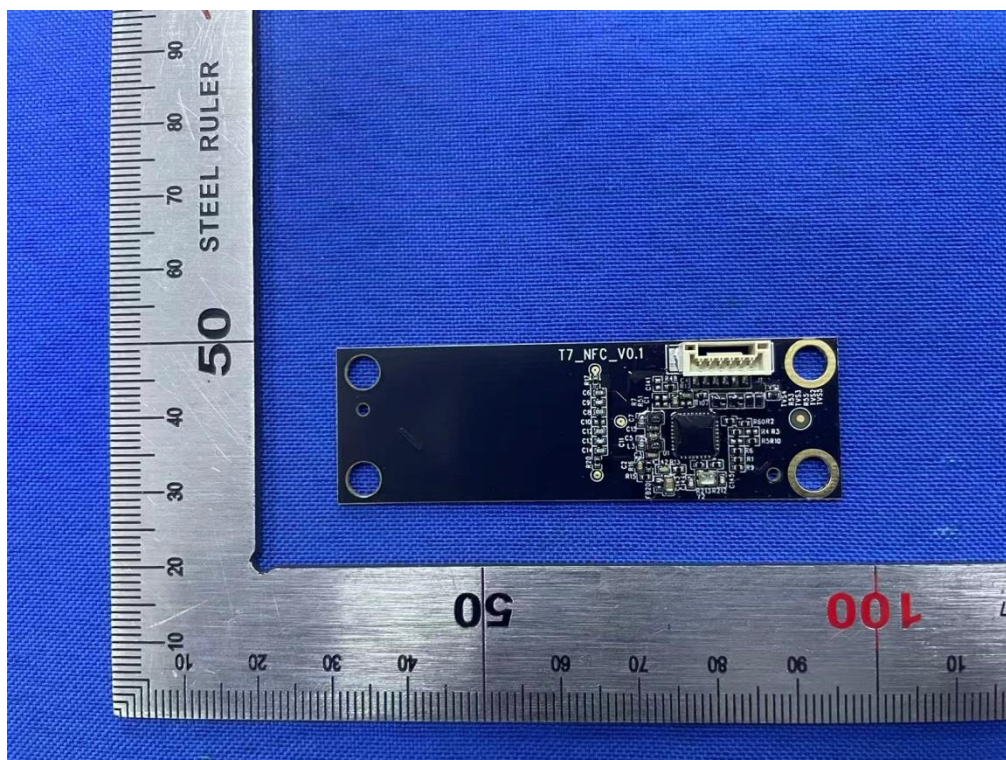
Report No.: SHE25070047-02GE

2025-09-09

Page 14 of 20



Internal-5 of the sample



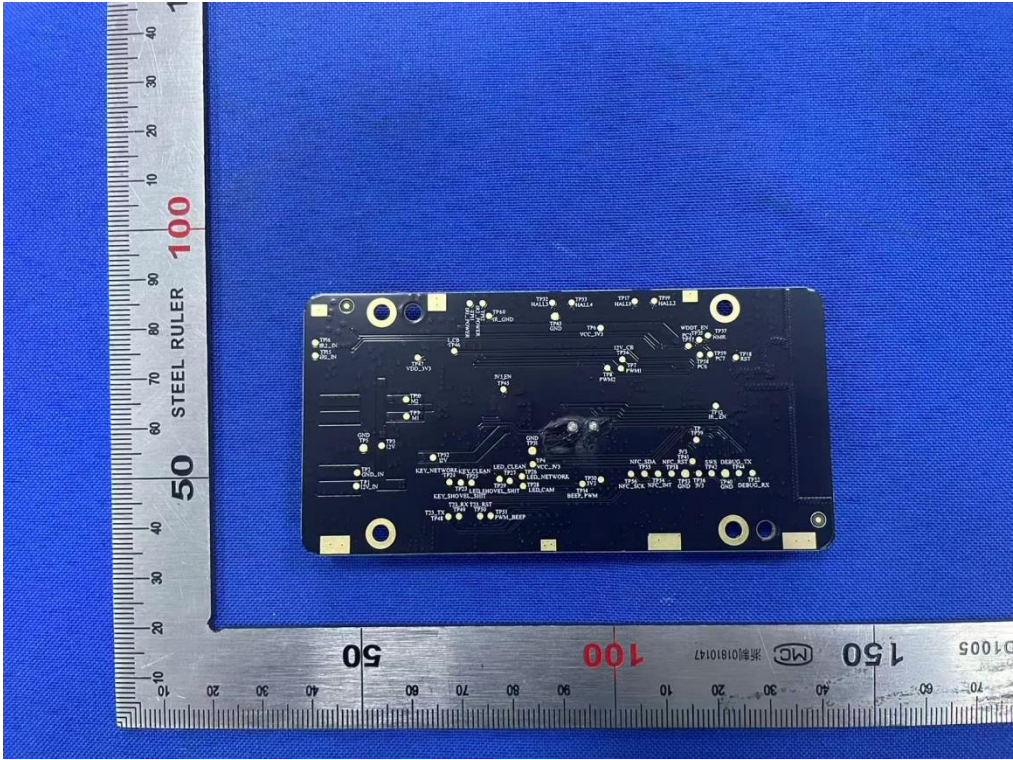
Internal-6 of the sample

MPE TEST REPORT

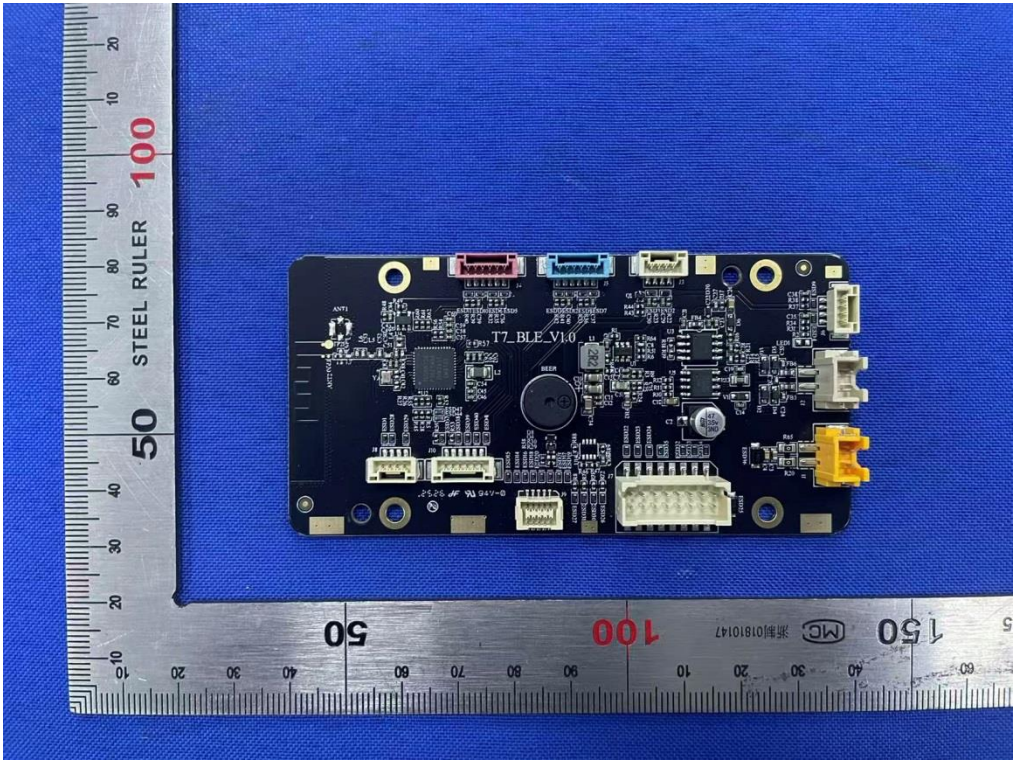
Report No.: SHE25070047-02GE

2025-09-09

Page 15 of 20



Internal-7 of the sample



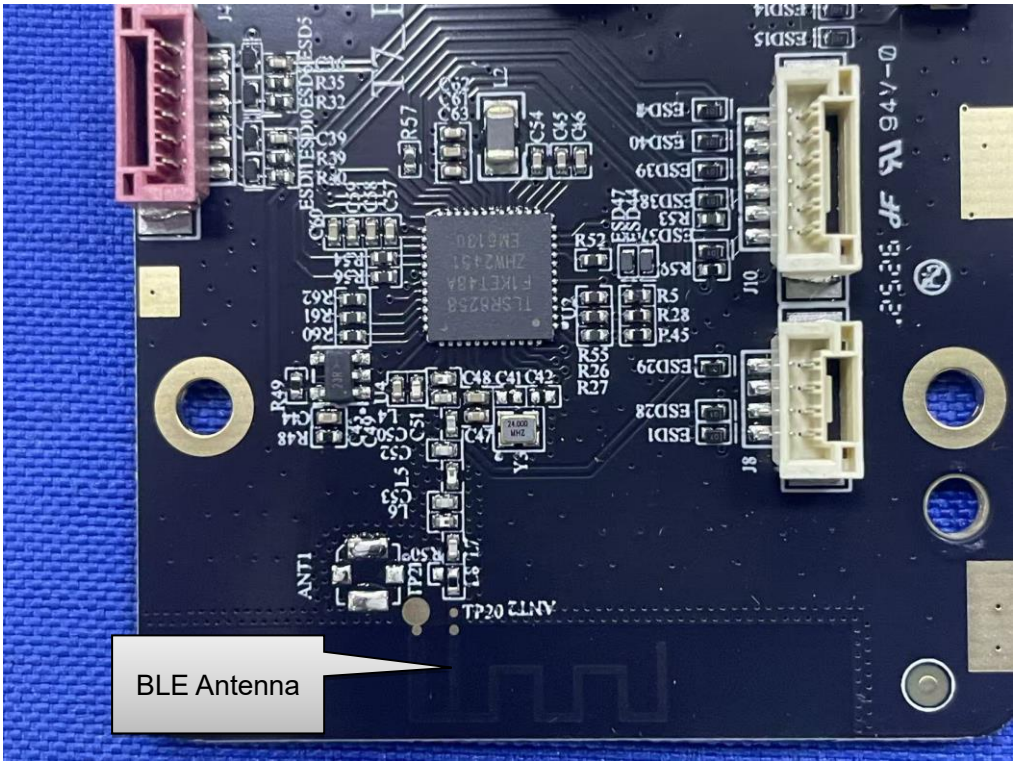
Internal-8 of the sample

MPE TEST REPORT

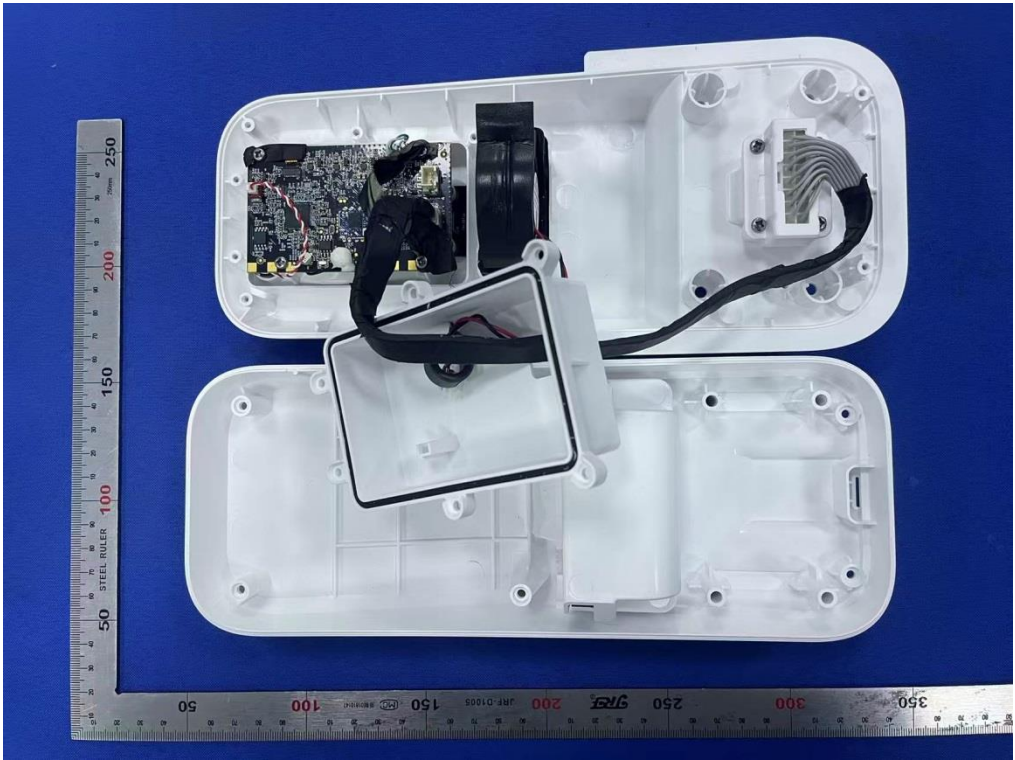
Report No.: SHE25070047-02GE

2025-09-09

Page 16 of 20



BLE Antenna Position

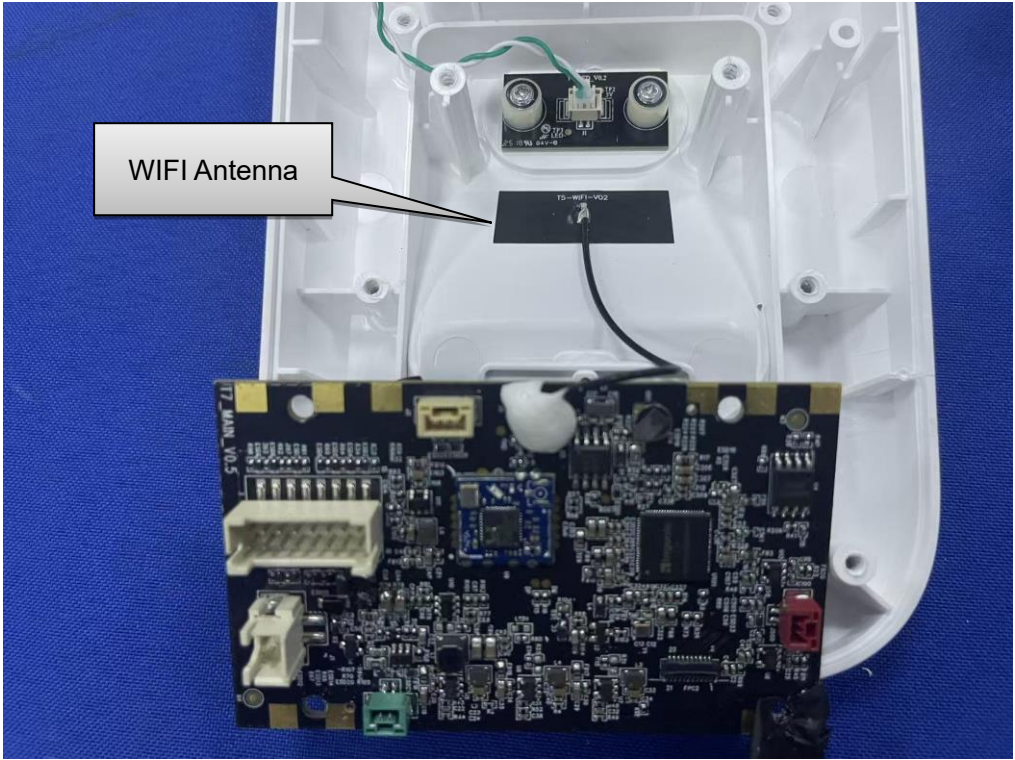


MPE TEST REPORT

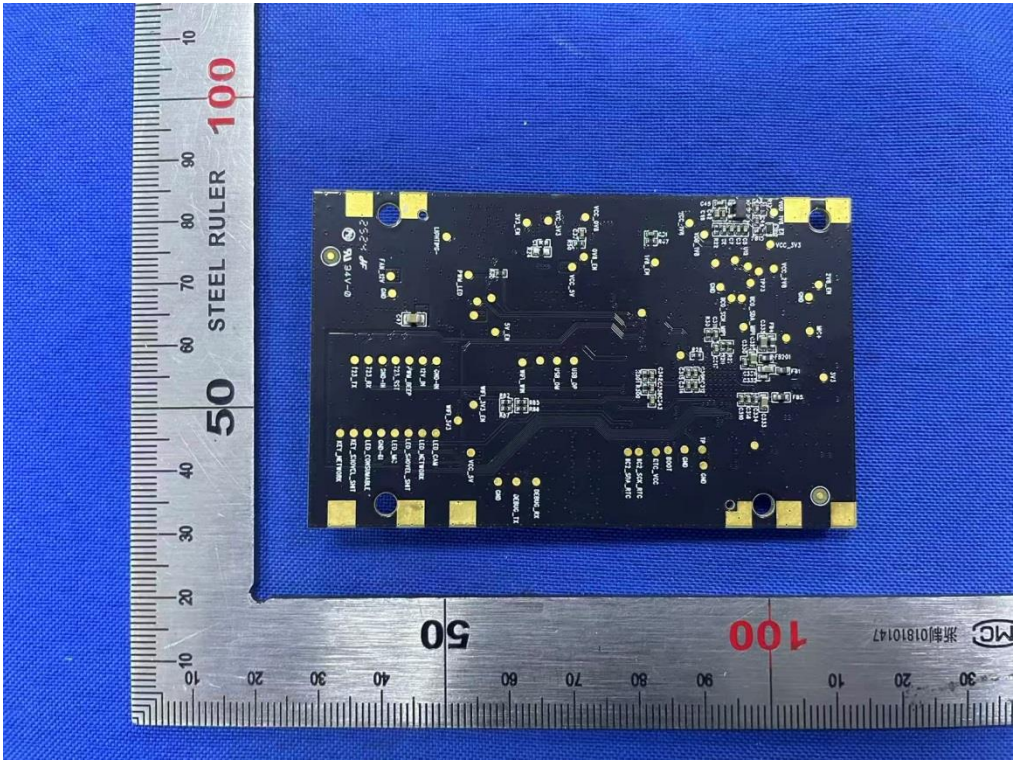
Report No.: SHE25070047-02GE

2025-09-09

Page 17 of 20



WIFI Antenna Position



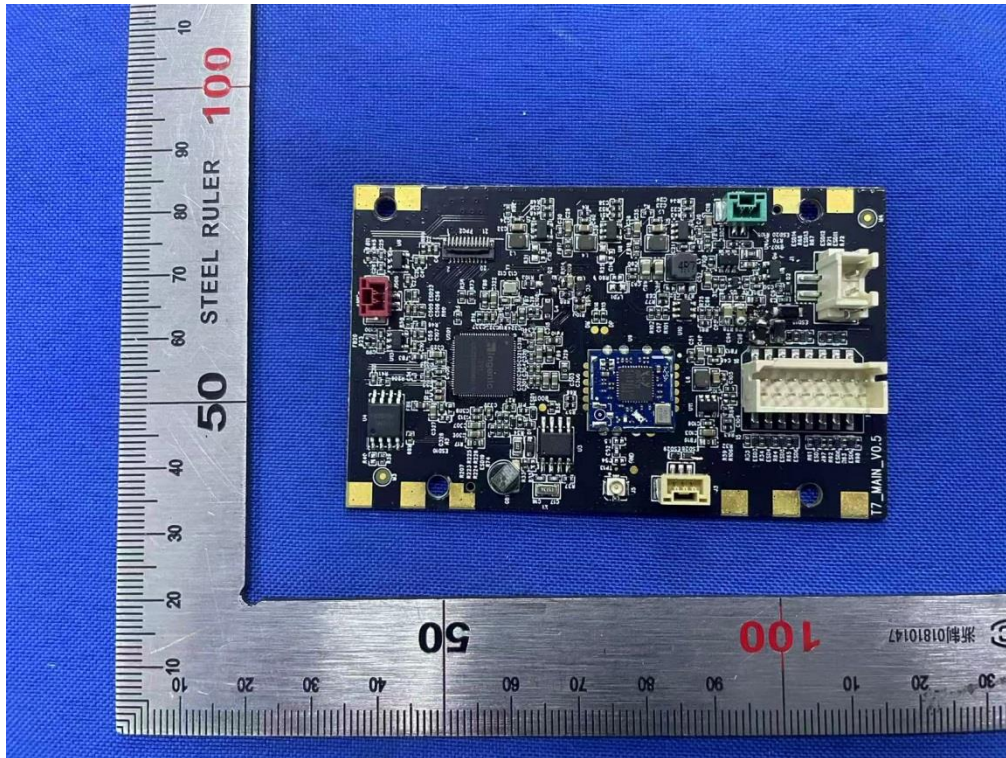
Internal-12 of the sample

MPE TEST REPORT

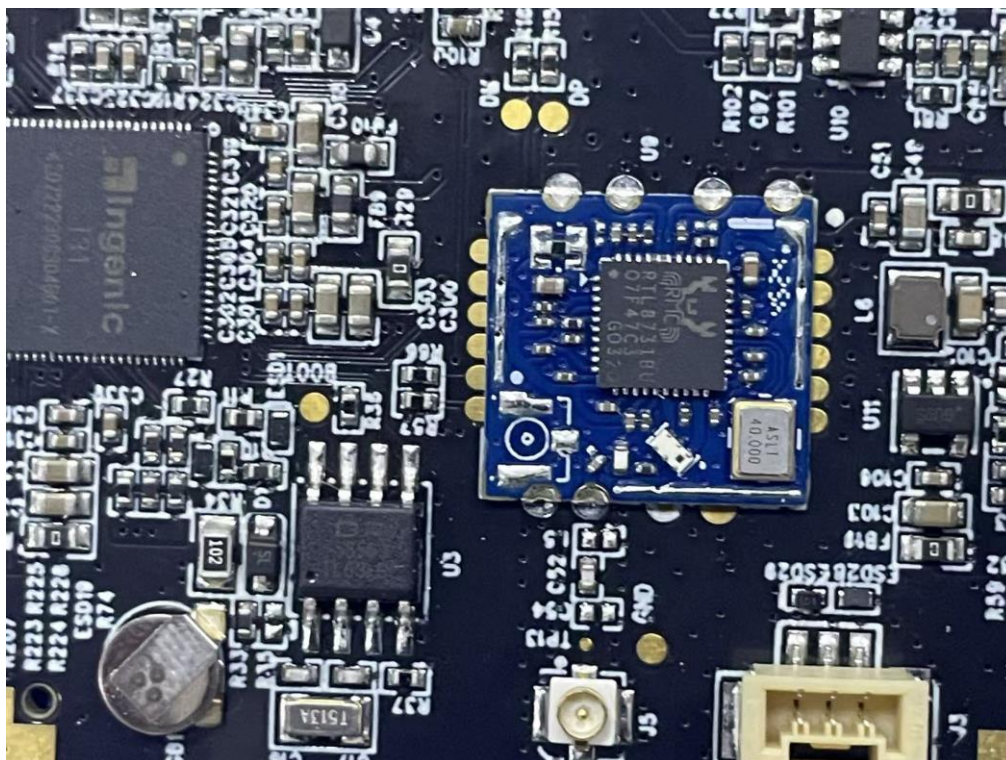
Report No.: SHE25070047-02GE

2025-09-09

Page 18 of 20



Internal-13 of the sample



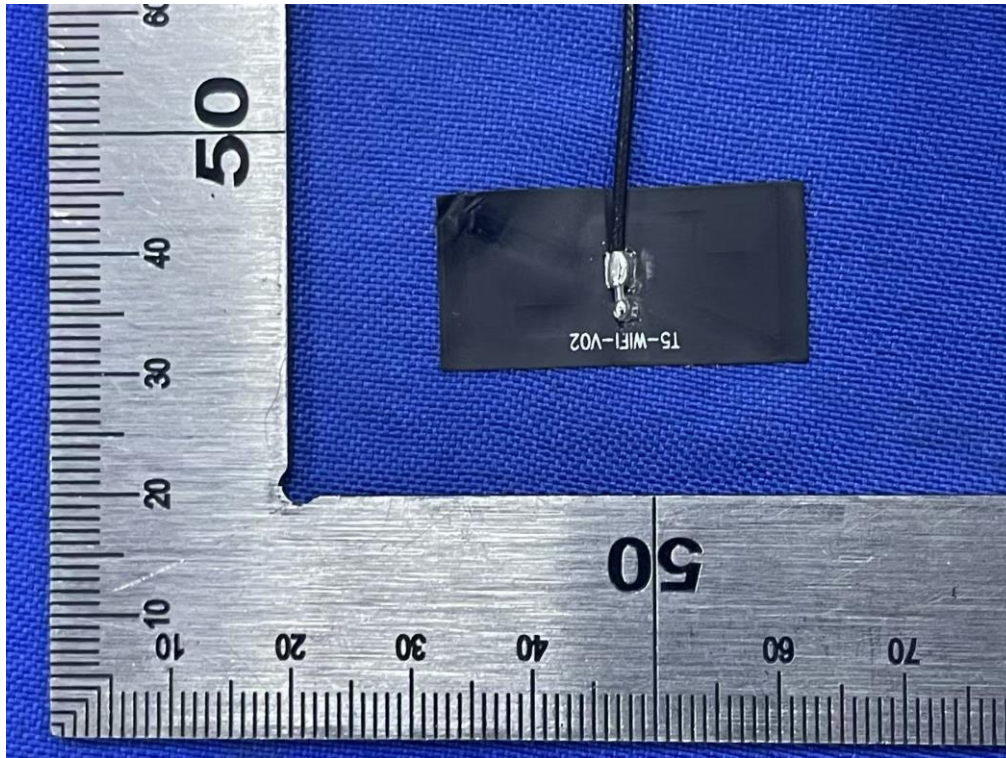
Internal-14 of the sample

MPE TEST REPORT

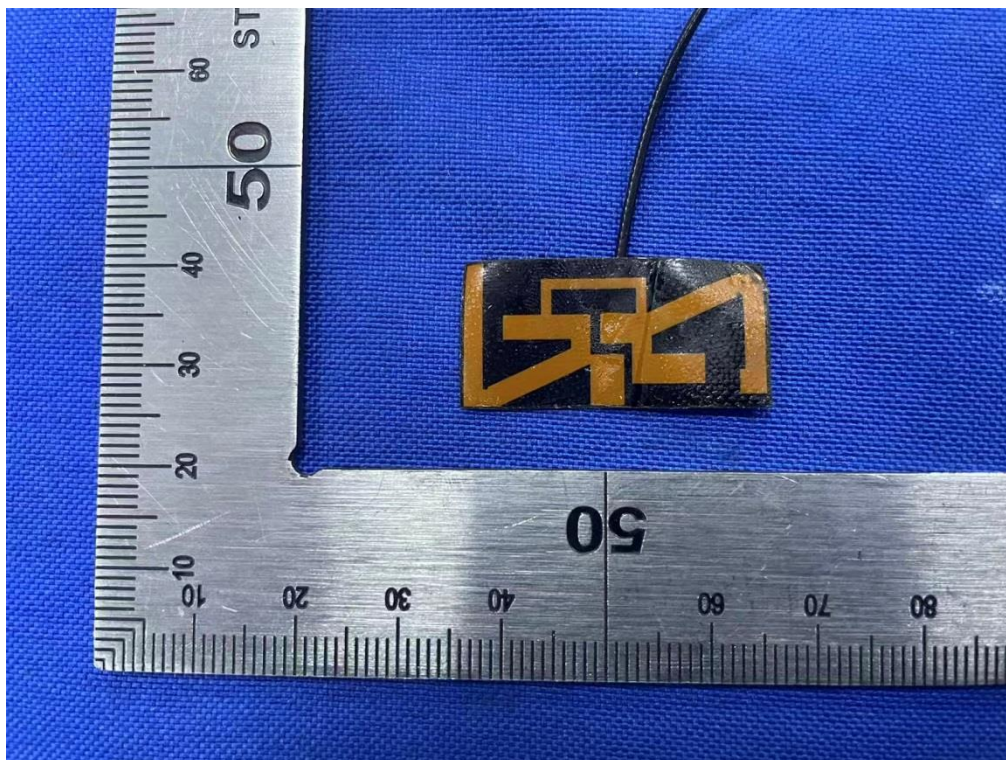
Report No.: SHE25070047-02GE

2025-09-09

Page 19 of 20



WIFI Antenna Photo (Front)



WIFI Antenna Photo (Back)

MPE TEST REPORT

Report No.: SHE25070047-02GE

2025-09-09

Page 20 of 20



Adapter



DC Input Port

End of the report