

Japan Specified Radio Test Report

Report No. : 1814C50098912501

Applicant : Shenzhen Qianhai Homerun Smart
Technology Co., Ltd

Address : Room 401-B09F, Phase I, CMG Qianhai
Economic and Trade Center, No. 151 Free
Trade West Street, Nanshan Sub-district,
Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen, Guangdong Province, China

Product Name : Wireless Pet Water Fountain

Report Date : 2025-08-11

Shenzhen Anbotek Compliance Laboratory Limited



Shenzhen Anbotek Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
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TEST REPORT

Applicant : Shenzhen Qianhai Homerun Smart Technology Co., Ltd
Manufacturer : Shenzhen Qianhai Homerun Smart Technology Co., Ltd
Product Name : Wireless Pet Water Fountain
Model No. : BF10, BF21
Trade Mark : N/A
Rating(s) : Input: 5V $\pm$ 2A
Battery Capacity: DC 3.7V, 7800mAh

Test Standard(s) : Article 2, paragraph 1, item 8
MIC Notice No.88 Appendix No.22-16

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the article 2, paragraph 1, item 8 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt

2024-03-07

Date of Test

2024-03-07~2024-05-11

Prepared By

Cecilia Chen

(Cecilia Chen)

Approved & Authorized Signer

Hugo Chen

(Hugo Chen)

Shenzhen Anbotek Compliance Laboratory Limited

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Revision History

Report Version	Description	Issued Date
R00	Original Issue. (Note 1)	2025-08-11

Note 1:
This is the amended report application which was based on the original report 18220WC40040001.
The difference between the original device and current one described as following:

1. Add the model number “BF21”.
2. Change the company address of Applicant, Manufacturer and Factory.

The changes will not affect the related test result, the tests will retain the original test results.



1. General Information

1.1. Client Information

Applicant	:	Shenzhen Qianhai Homerun Smart Technology Co., Ltd
Address	:	Room 401-B09F, Phase I, CMG Qianhai Economic and Trade Center, No. 151 Free Trade West Street, Nanshan Sub-district, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong Province, China
Manufacturer	:	Shenzhen Qianhai Homerun Smart Technology Co., Ltd
Address	:	Room 401-B09F, Phase I, CMG Qianhai Economic and Trade Center, No. 151 Free Trade West Street, Nanshan Sub-district, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong Province, China
Factory	:	Shenzhen Qianhai Homerun Smart Technology Co., Ltd
Address	:	Room 401-B09F, Phase I, CMG Qianhai Economic and Trade Center, No. 151 Free Trade West Street, Nanshan Sub-district, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong Province, China

1.2. Description of Device (EUT)

Product Name	:	Wireless Pet Water Fountain
Model No.	:	BF10, BF21 (Note: All samples are the same except the model number, so we prepare "BF10" for test only.)
Trade Mark	:	N/A
Test Power Supply	:	DC 3.7V
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Hardware Version	:	VA00
Software Version	:	V9
Adapter	:	N/A
RF Specification		
Operation Frequency	:	10.525GHz
Number of Channel	:	1 Channels
Modulation Type	:	CW
Antenna Type	:	Radar module 1: PCB Antenna Radar module 2: PCB Antenna
Antenna Gain(Peak)	:	Radar module 1: 4.8 dBi Radar module 2: 4.8 dBi
Rated output Power	:	Radar module 1: 0.08 mW Radar module 2: 0.08 mW
Remark: (1) All of the RF specification are provided by customer. (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

Shenzhen Anbotek Compliance Laboratory Limited



1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
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1.4. Description of Test Configuration

The EUT has been tested under typical operating condition. The Applicant provides software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Channel	Freq. (GHz)
1	10.525

1.5. Test Conditions

	Normal Test Conditions
Temperature	15°C - 35°C
Relative Humidity	45% - 75%
Pressure Range	86-106kPa

1.6. Test Voltage

Voltage Fluctuation Test	Normal Voltage	High Voltage +10% of Normal Voltage	Low Voltage -10% of Normal Voltage
Input To EUT	DC 3.7V	DC 4.07V	DC 3.33V
Output To RF Module	DC 3.30V	DC 3.30V	DC 3.30V
Voltage Variation (%)	--	--	--

Note: Voltage Variation (%)=(Output high or Low Voltage - Output Normal Voltage)/ Output Normal Voltage* 100

For extreme voltage test, we have tested the relationship between the external power supply and RF IC power supply. Base on the test results, only the normal voltage was selected to perform all items.



1.7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	MAX Spectrum Analysis	Agilent	N9020A	MY51170037	2023-10-12	1 Year
2.	MXA Spectrum Analysis	KEYSIGHT	N9020A	MY53280032	2023-10-12	1 Year
3.	DC Power Supply	IVYTECH	IV3605	1804D360510	2023-10-20	1 Year
4	MXG RF Vector Signal Generator	Agilent	N5182A	MY47420647	2024-02-04	1 Year
5.	Oscilloscope	Tektronix	MDO3012	C020298	2023-10-12	1 Year
6.	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	101792	2023-05-26	1 Year

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 279531

Shenzhen Anbotek Compliance Laboratory Limited, 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. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.



1.9. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

1.10. Measurement Uncertainty

Parameter	Uncertainty
Occupied Bandwidth	925Hz
Conducted Output Power	0.76dB
Conducted Spurious Emission	1.24dB
Frequency tolerance	74.60Hz
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

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2. Summary of Test Results

Test Standard	Description of Test	Result
Article 2 Paragraph 1 Item 8	Frequency Tolerance	Complies
	Antenna power	Complies
	Antenna Power Tolerance	Complies
	Occupied Bandwidth	Complies
	Unwanted Emission Strength	Complies
	Secondary Radiated Emission Strength	Complies
	Interference Prevention Function	Complies
	Housing Requirements	Complies

Note:

(1) N/A is an abbreviation for Not Applicable.



3. Frequency Tolerance Test

3.1. Test Limit

Test Limit	Within the band of 10.5GHz~10.55GHz
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3.2. Test Setup



3.3. Test Procedure

Test Frequency= test channel

RBW=VBW=10KHz

Span=60MHz

Sweep time=Auto

Detector mode=Positive peak

Indication mode=Max hold

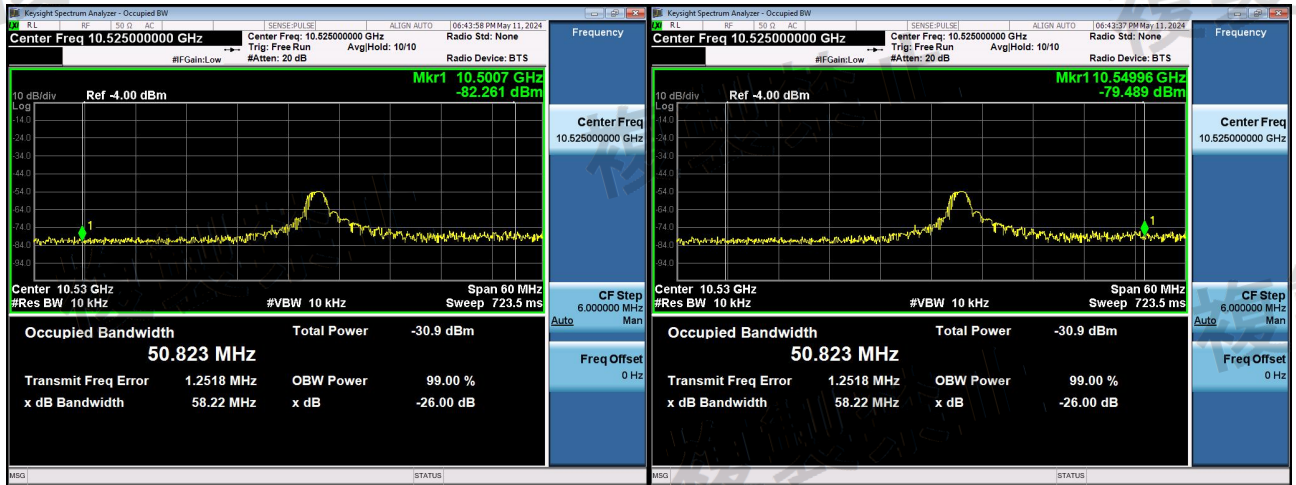
Mark the FL and FH of the 99% Bandwidth use the function button of "Occupied Bandwidth".

3.4. Test Data

PASS

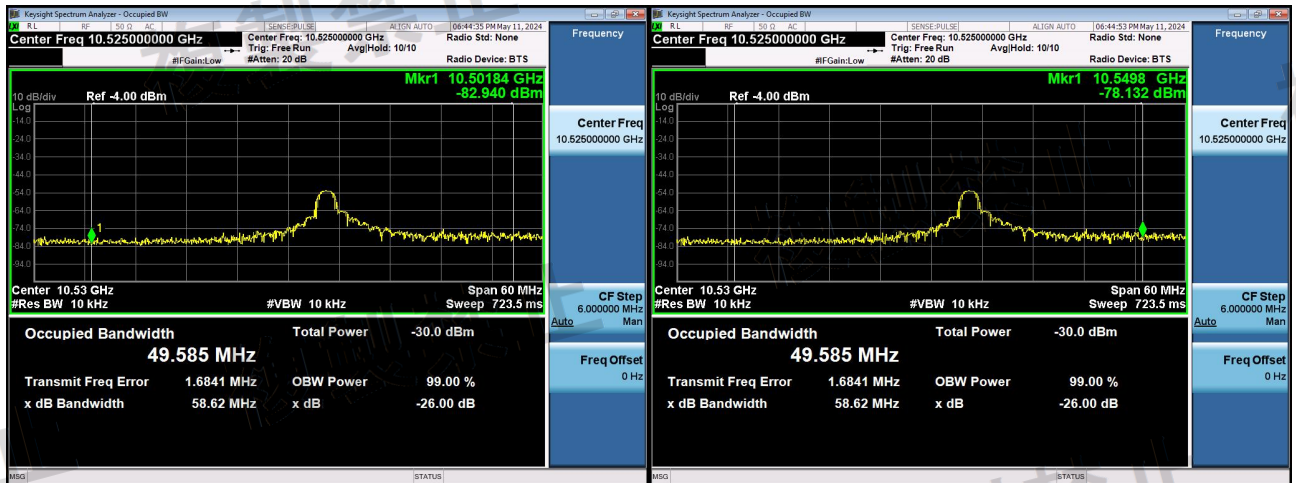
Please refer to the following data.





Radar module 1 FL

Radar module 1 FH



Radar module 2 FL

Radar module 2 FH

Note: Test data contains compensation for cable loss.



4. Antenna Power Test

4.1. Test Limit

Test Limit	
Antenna Power	20mW or less
Tolerance	+50%,-50%

4.2. Test Setup



4.3. Test Configuration

RBW=VBW=8MHz

Span=Wide enough to cover the complete power envelope of the signal of the EUT.

Sweep time=Auto

Detector mode =Positive peak

Indication mode=Max hold

4.4. Test Data

Pass

Please refer to the following data.

Antenna Power					
Test Channel	Power (dBm)	Gain(dBi)	EIRP Power (dBm)	Power (mW)	Limit (mW)
10.525GHz for Radar module 1	-15.525	4.8	-10.725	0.0846	20
10.525GHz for Radar module 2	-14.628	4.8	-9.828	0.1040	20



Tolerance				
Test Channel	Power (mW)	Rated Power (mW)	Result (%)	Limit (%)
10.525GHz for Radar module 1	0.0846	0.08	5.78%	-50 to +50
10.525GHz for Radar module 2	0.1040	0.08	30.05%	-50 to +50



Radar module 1



Radar module 2



5. Occupied Bandwidth (99%) Test

5.1. Test Limit

Test Limit	40MHz or less
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5.2. Test Setup



5.3. Test Configuration

Test Frequency= test channel

RBW=VBW=30KHz

Span=60MHz

Sweep time=Auto

Detector mode=Positive peak

Indication mode=Max hold

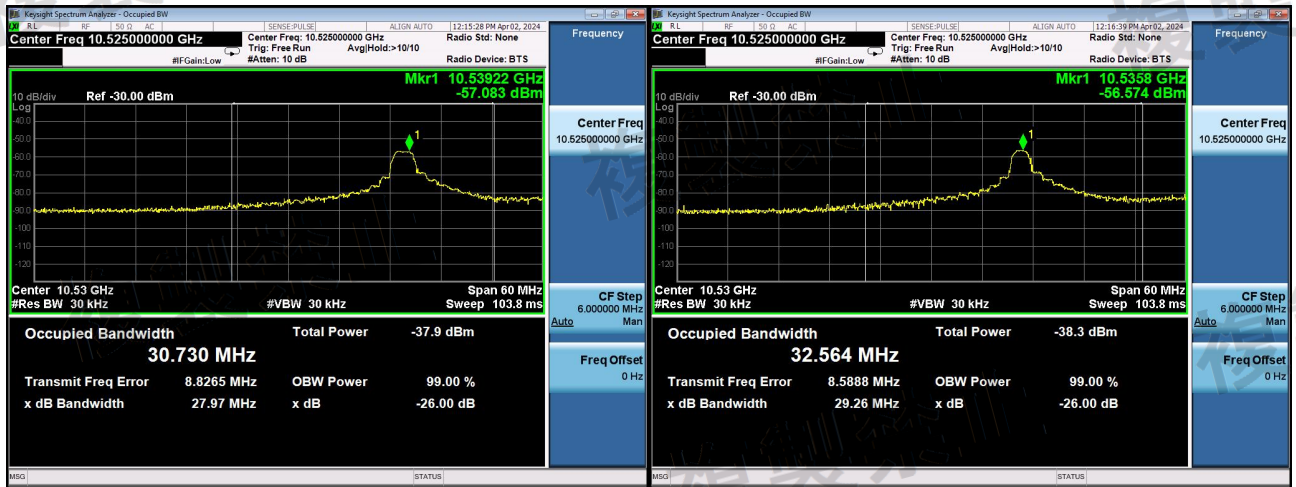
5.4. Test Data

PASS

Please refer to the following data.

Test Channel	99% Bandwidth(MHz)	Limit(MHz)
10.525GHz for Radar module 1	30.730	≤40
10.525GHz for Radar module 2	32.564	≤40





10.525GHz for Radar module 1

10.525GHz for Radar module 2

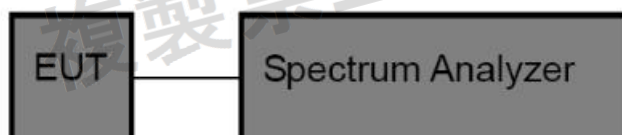


6. Unwanted Emission Strength Test

6.1 Limit

$\leq 2.5\mu\text{W} (-26\text{dBm})$

6.2. Test Setup



6.3. Test Configuration

Below 1GHz:

Test Frequency= test channel

RBW=VBW=100KHz

Sweep time=Auto

Detector mode=Positive peak

Above 1GHz:

Test Frequency= test channel

RBW=VBW=1000KHz

Sweep time=Auto

Detector mode=Positive peak

6.4. Test Data

Pass

Please refer to the following data.



Test Plots of Low Channel



Test Mode: 30~1000MHz Radar module 1



Test Mode: 1000~ 26000MHz Radar module 1



Test Mode: 30~1000MHz Radar module 2



Test Mode: 1000~ 26000MHz Radar module 2

Note: Test data contains compensation for antenna gain and cable loss.

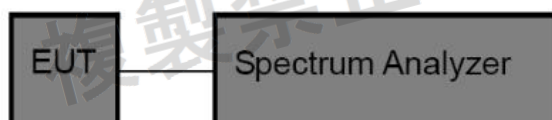


7. Secondary Radiated Emission Strength Test

7.1. Limit

$\leq 2.5\mu\text{W}(-26\text{dBm})$

7.2. Test Setup



7.3. Test Procedure

Below 1GHz:

Test Frequency= test channel

RBW=VBW=100KHz

Sweep time=Auto

Detector mode=Positive peak

Above 1GHz:

Test Frequency= test channel

RBW=VBW=1000KHz

Sweep time=Auto

Detector mode=Positive peak

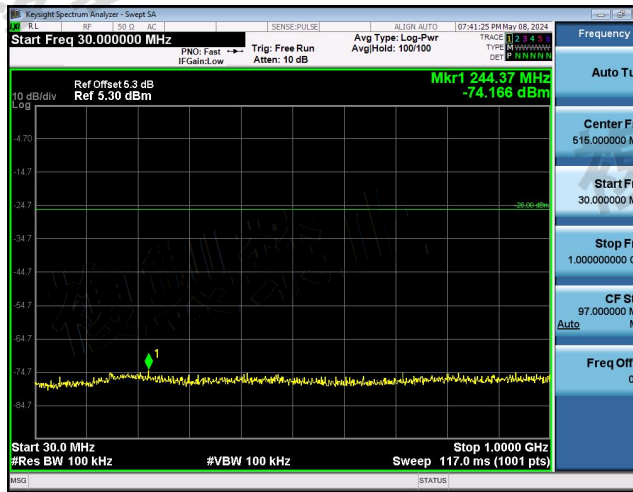
7.4. Test Data

Pass

Please refer to the following data.



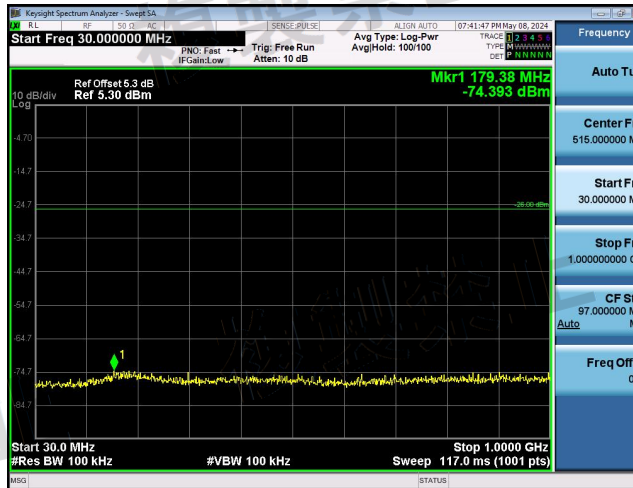
Test Plots of Low Channel



Test Mode: 30~1000MHz Radar module 1



Test Mode: 1000~26000MHz Radar module 1



Test Mode: 30~1000MHz Radar module 2



Test Mode: 1000~26000MHz Radar module 2

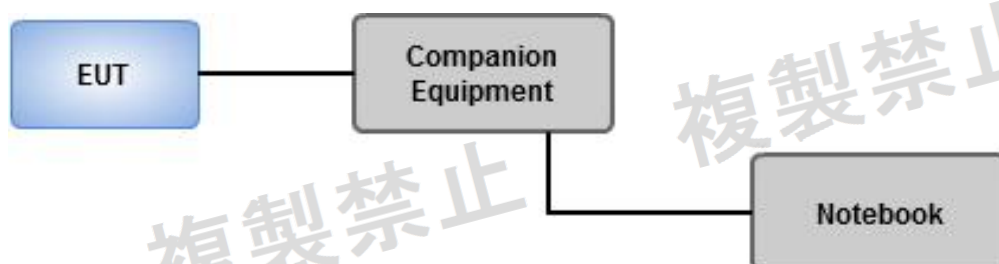


8. Interference Prevention Function

8.1. Test Limit

Test Limit	The identification code shall be 48 bits long
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8.2. Test Setup



8.3. Test Configuration

1. Set EUT under operating mode and link up with companion equipment
2. Check communication status between EUT and companion equipment is normal
3. Record the max. reading.
4. Confirm the MAC address of EUT

8.4. Test Results

Test Mode	ID Code	Test Results
10.525G	A2:33:1B:53:C2:27	Pass



9. Housing Requirements

9.1. Requirements

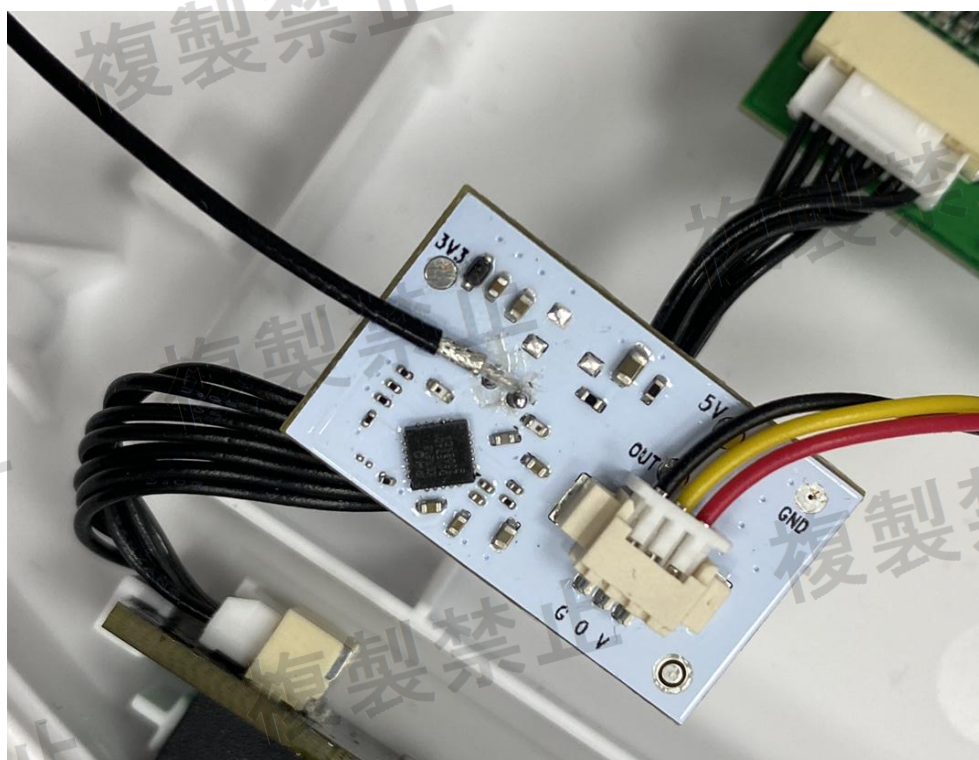
The radio equipment shall be housed in a single cabinet, and the cabinet shall not be capable of being opened easily.(except for the antenna system)

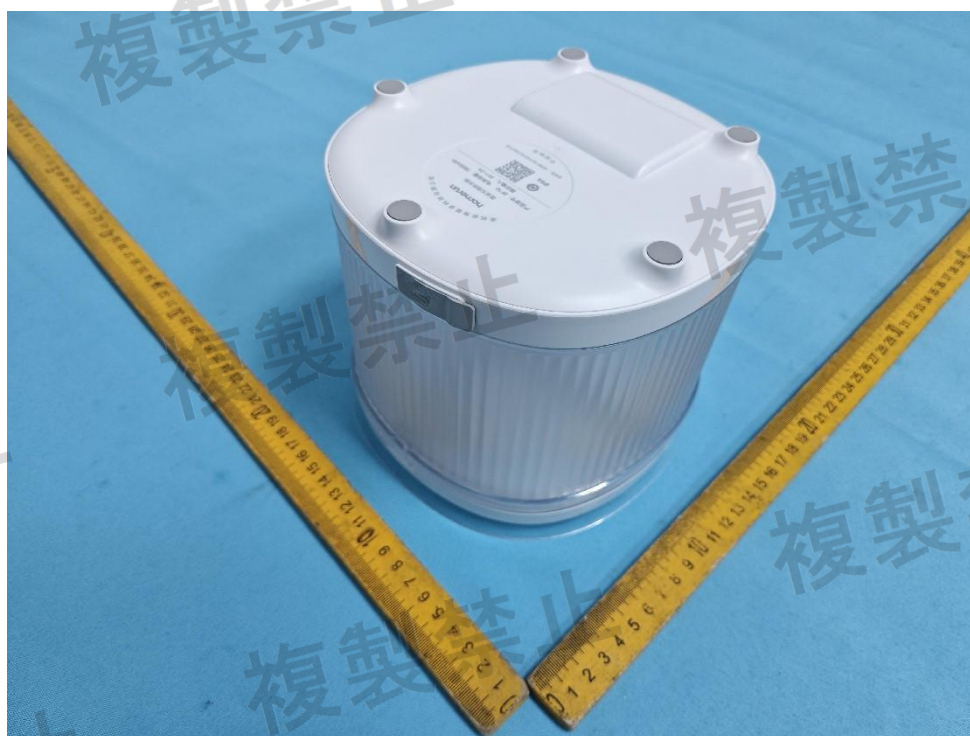
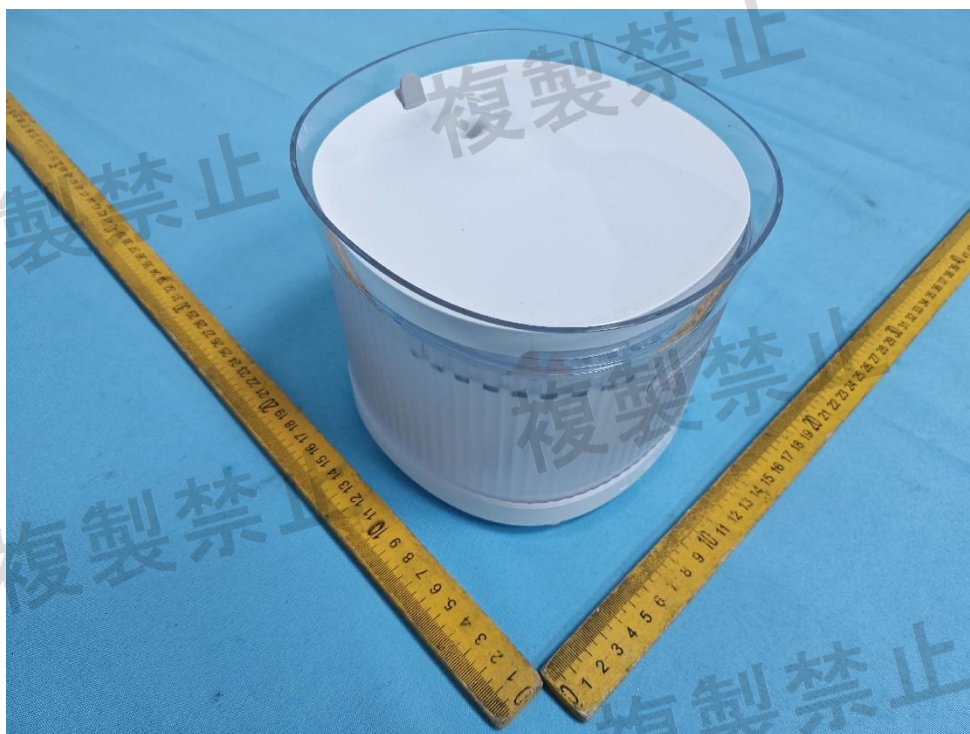
9. Test Results

Pass.The cabinet shall not be capable of being opened easily.



APPENDIX I -- TEST SETUP PHOTOGRAPH



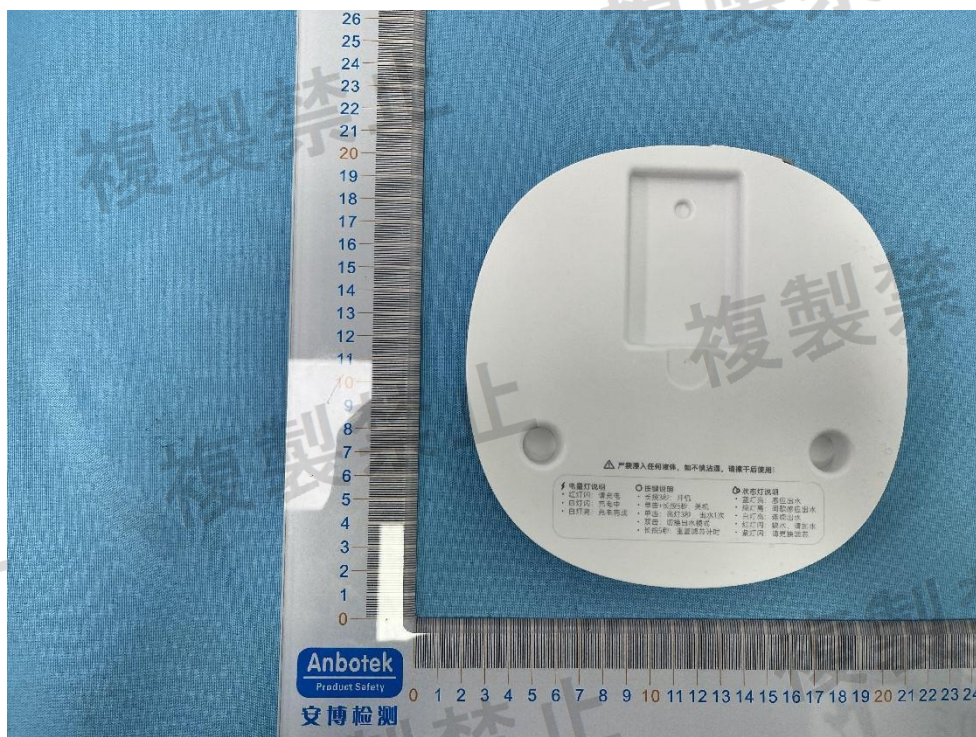
APPENDIX II -- EXTERNAL PHOTOGRAPH**Shenzhen Anbotek Compliance Laboratory Limited**

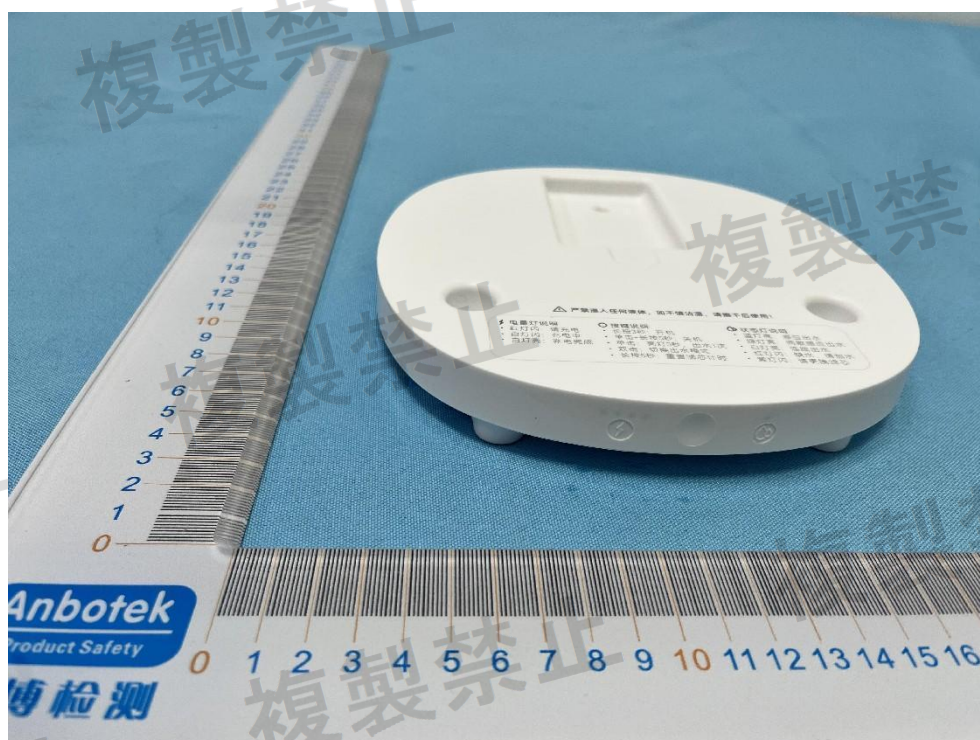
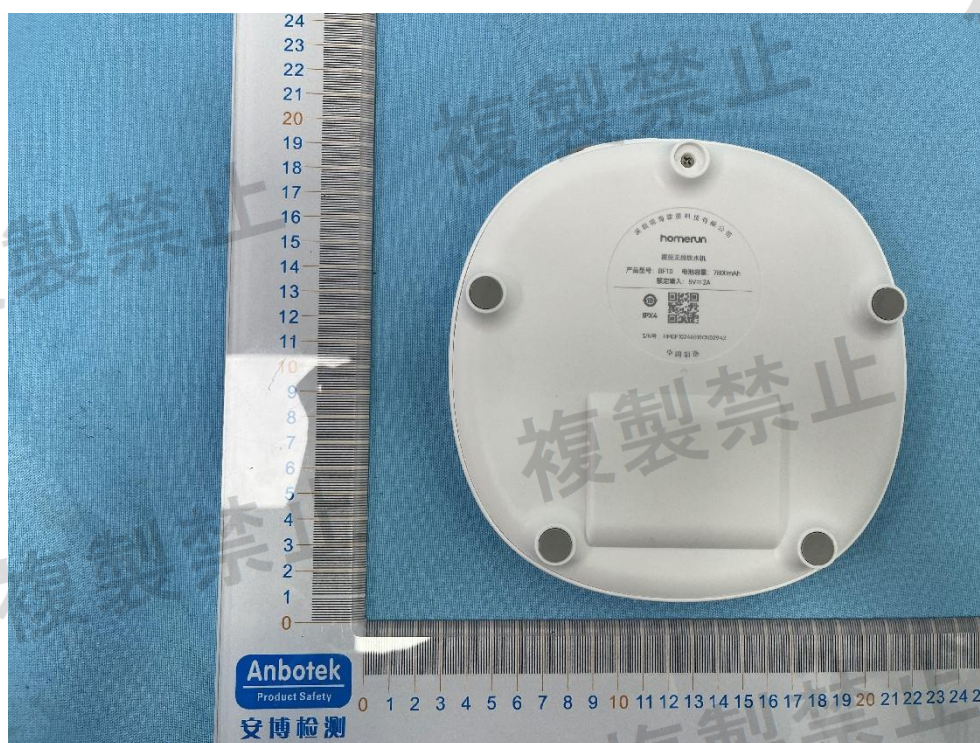
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

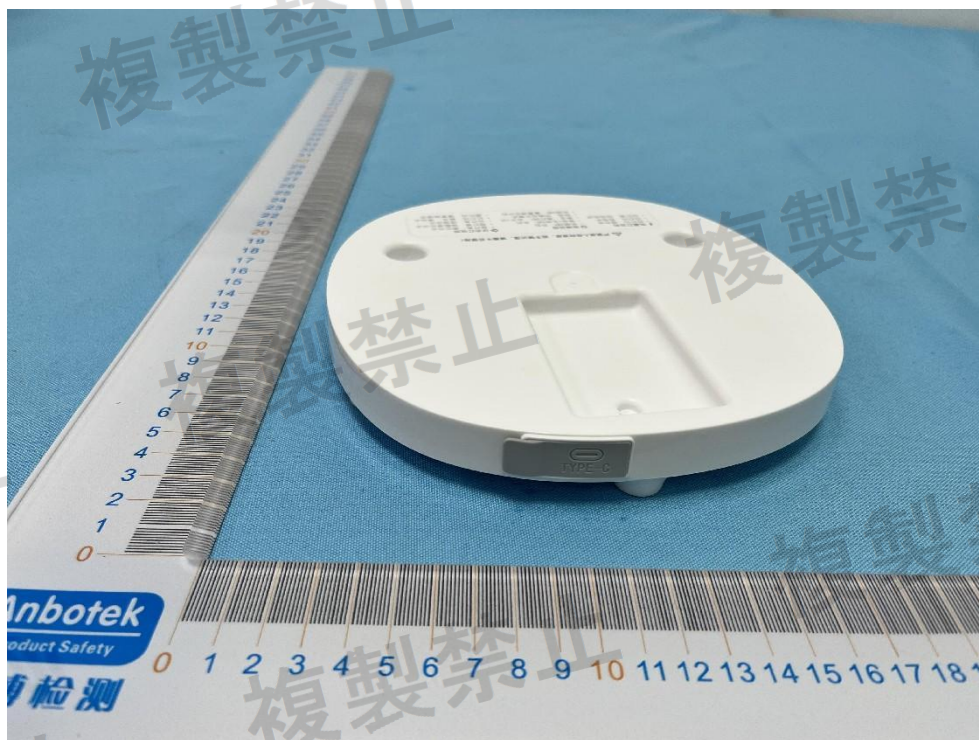
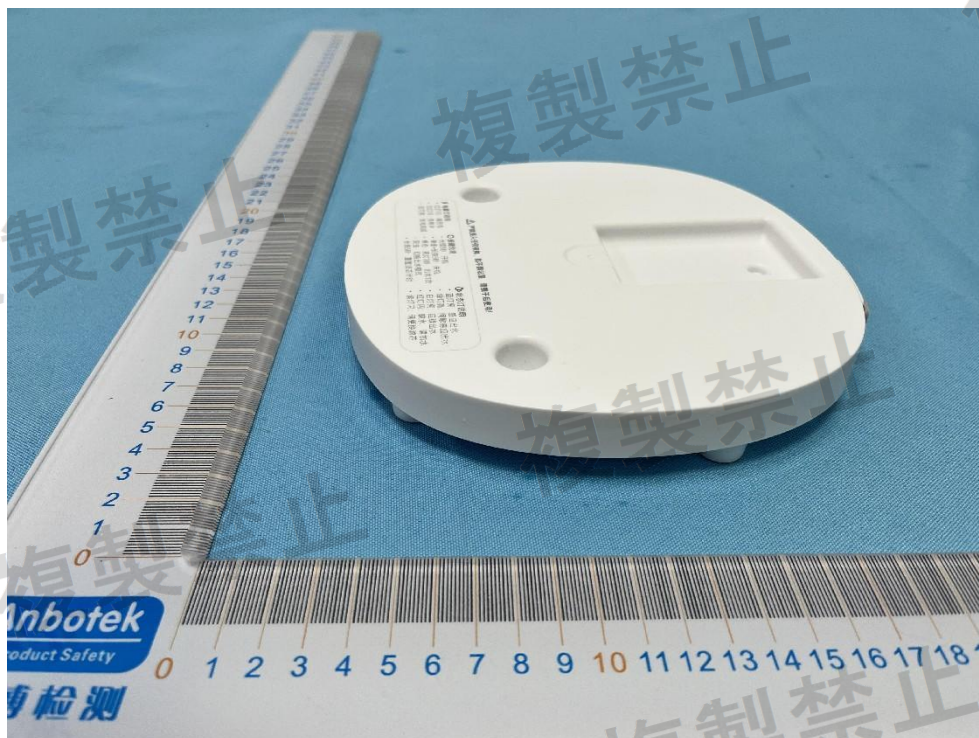


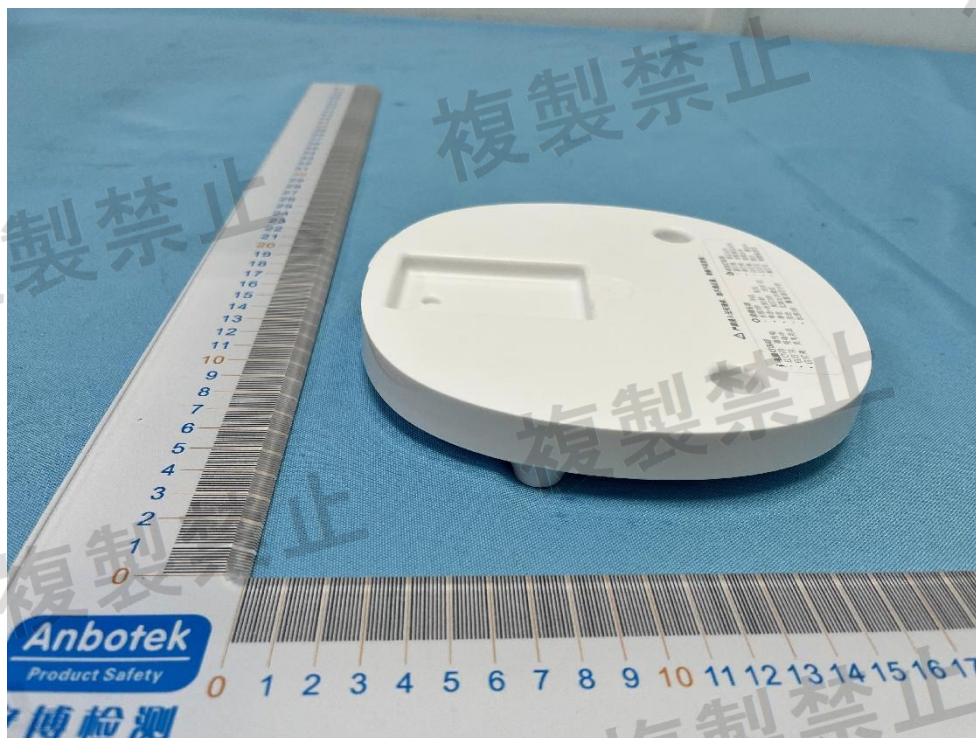
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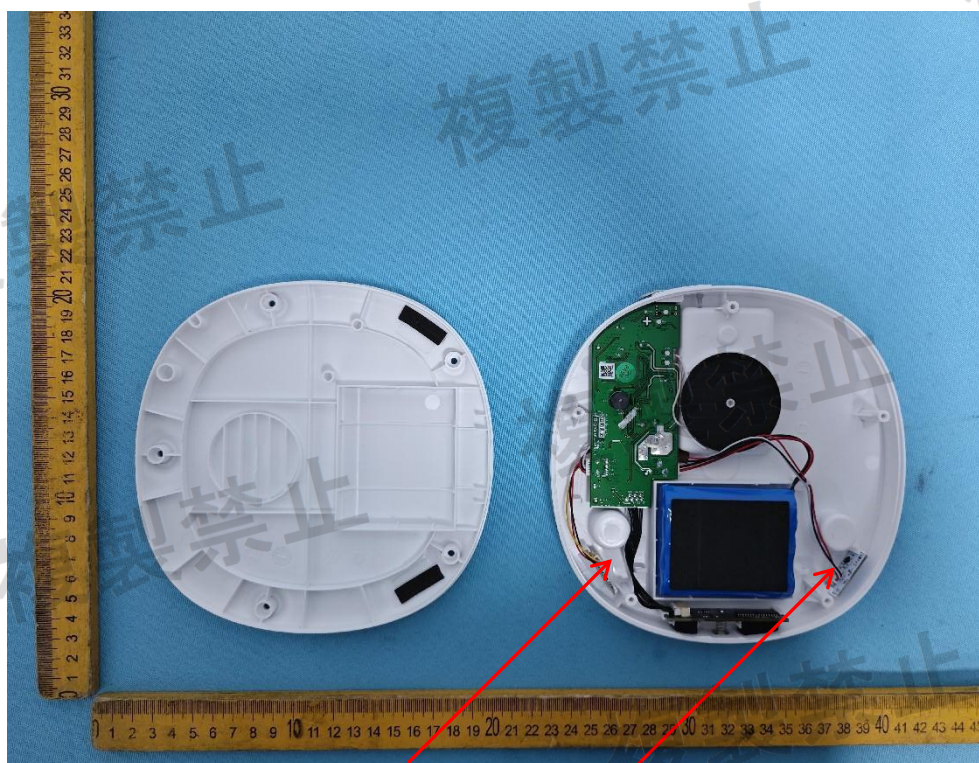






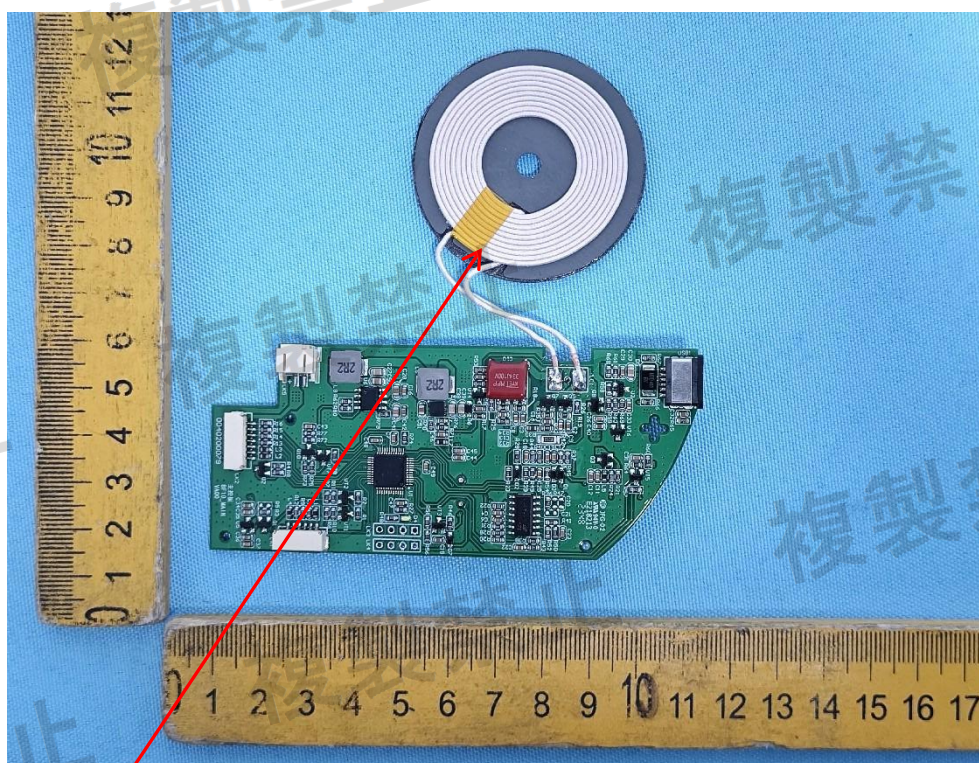


APPENDIX III -- INTERNAL PHOTOGRAPH



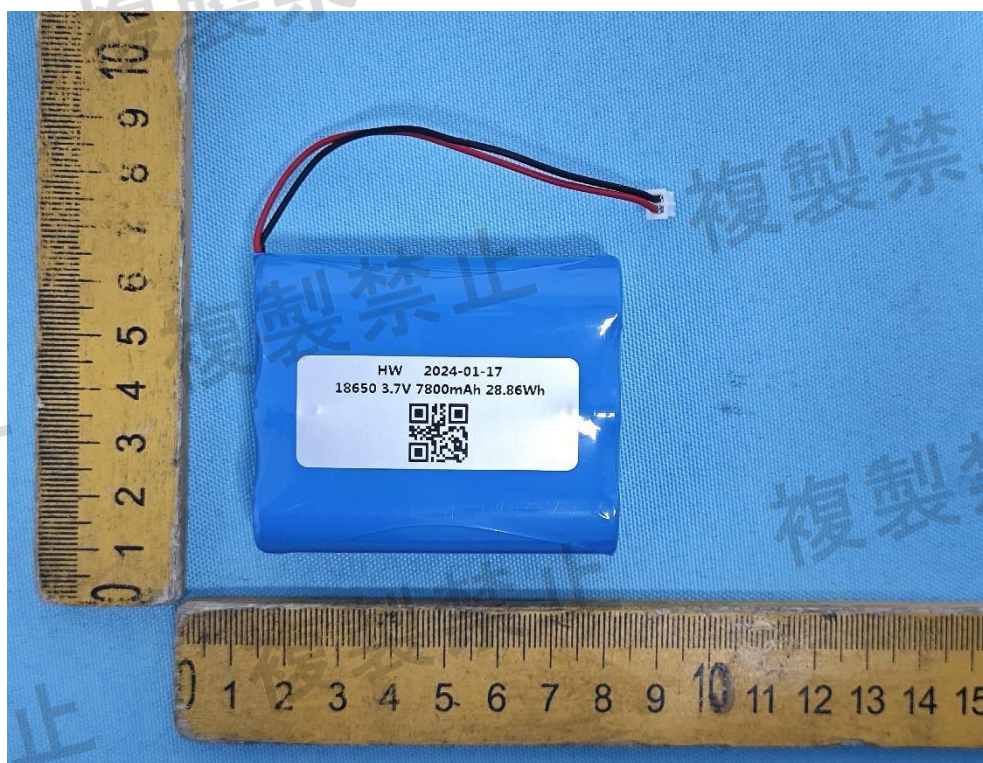
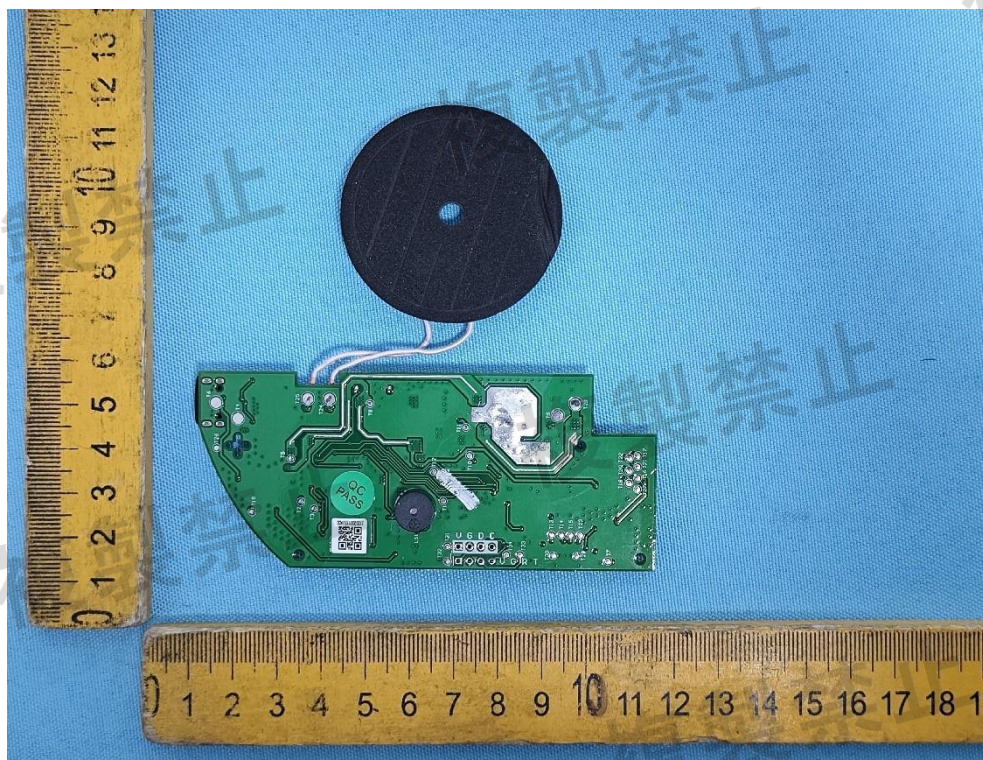
Radar module 1 ANT

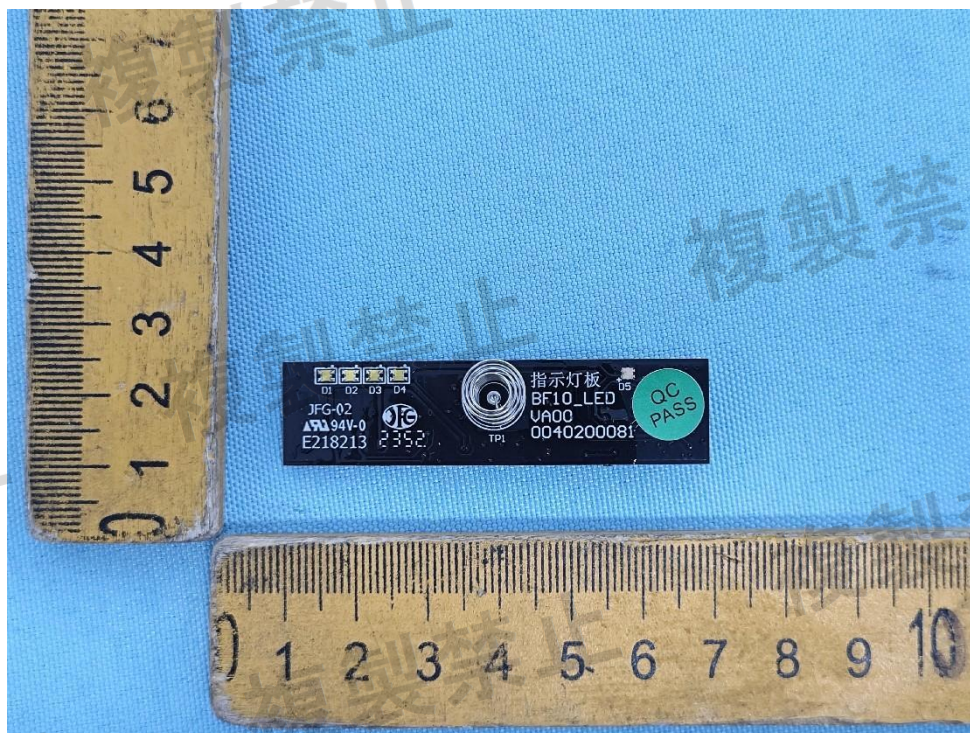
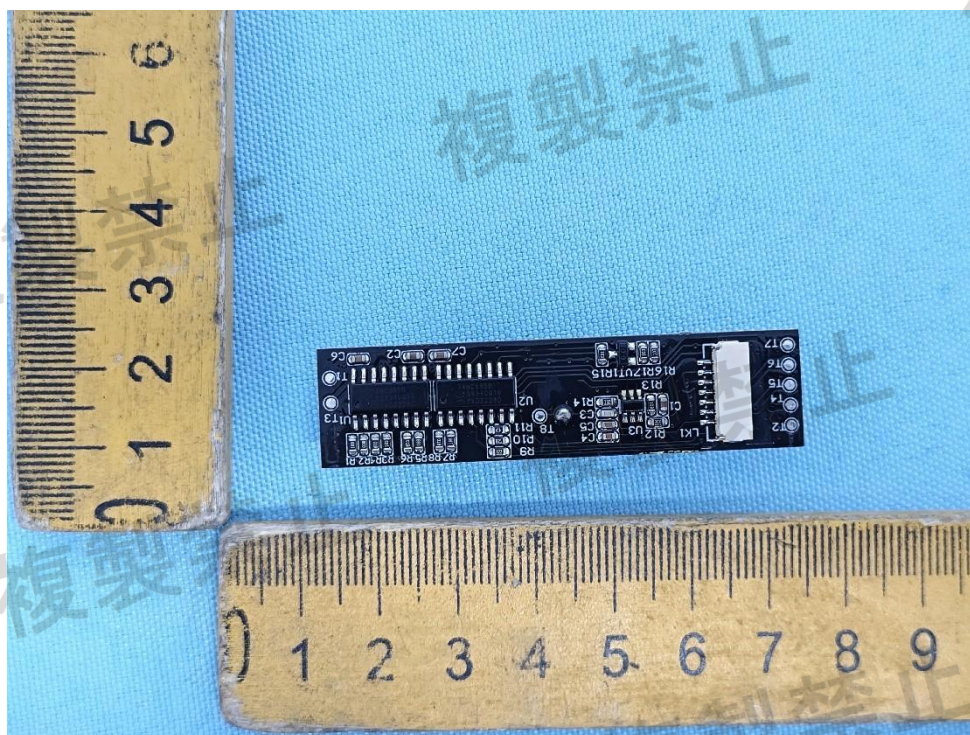
Radar module 2 ANT

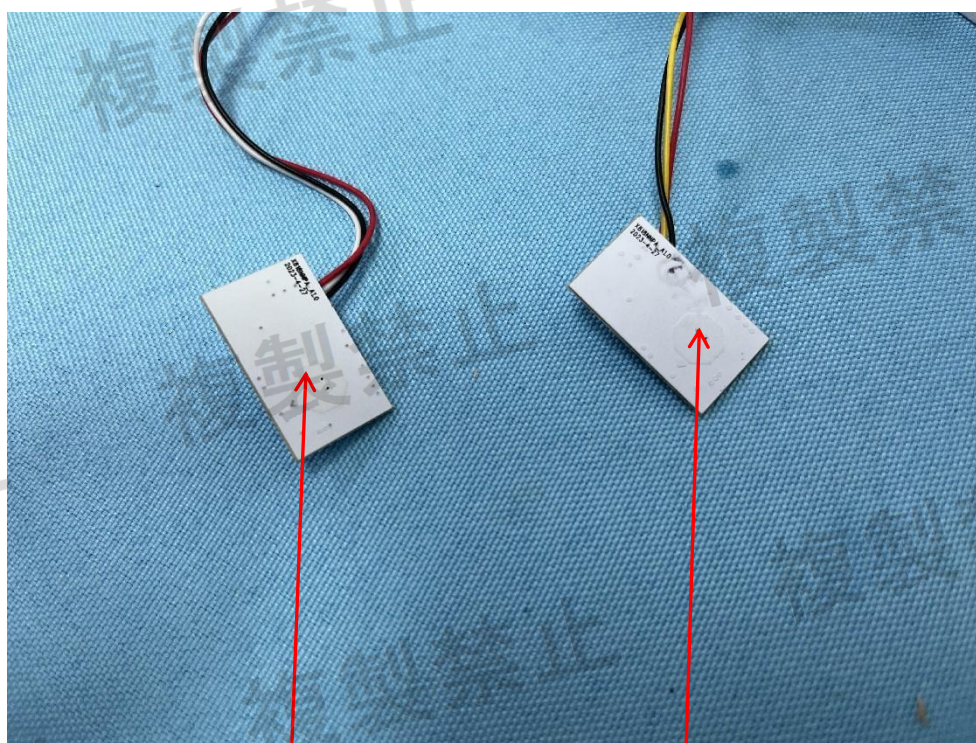
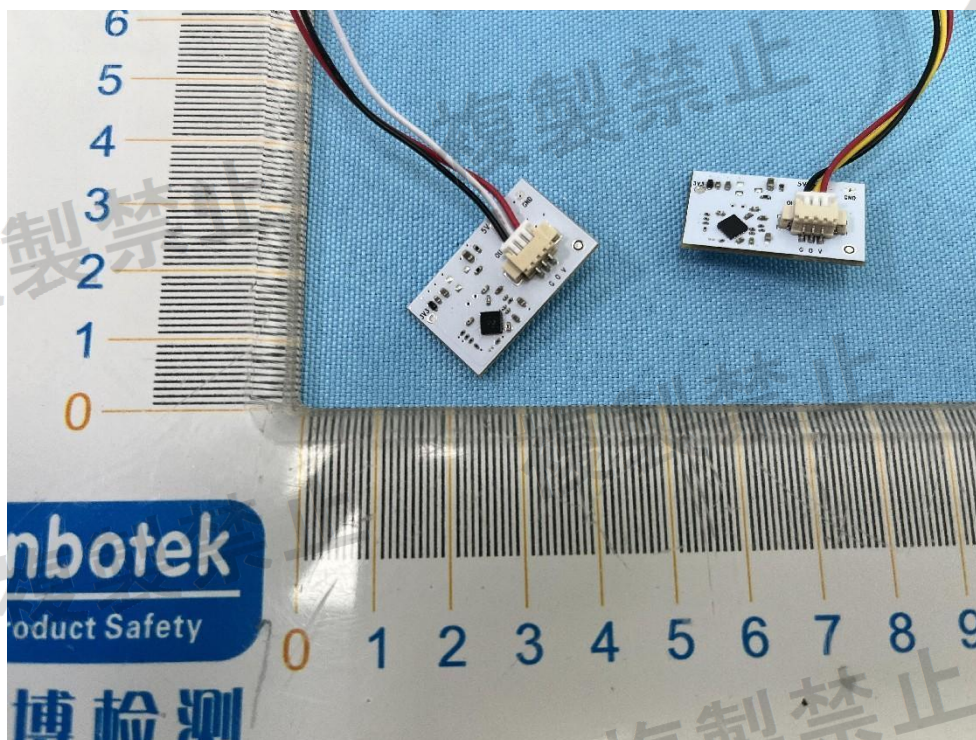


WPT ANT





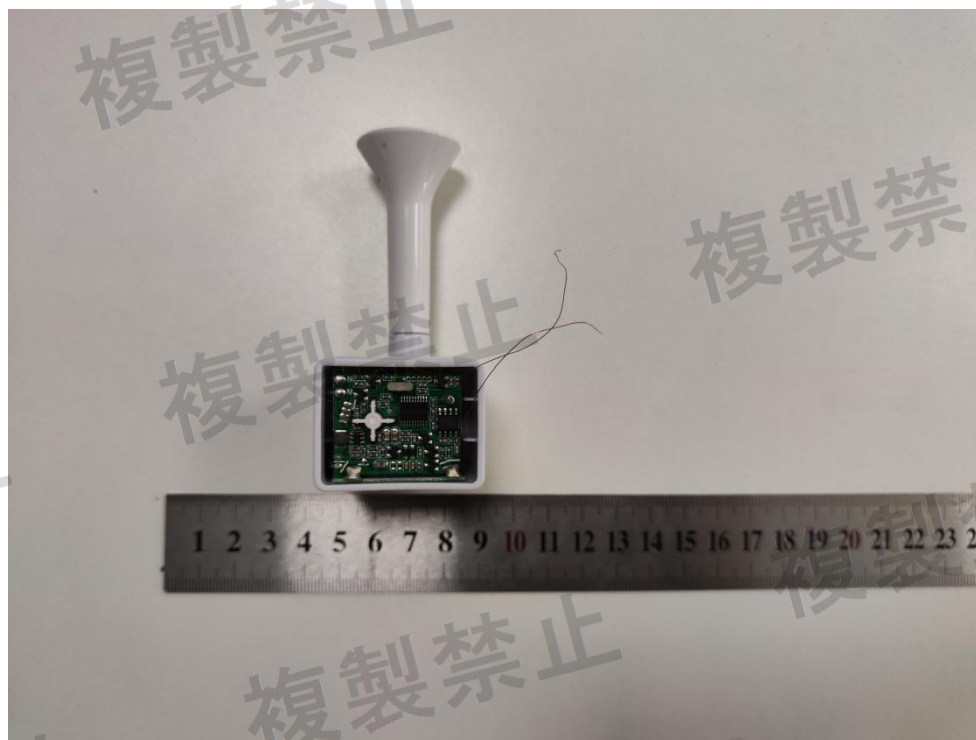
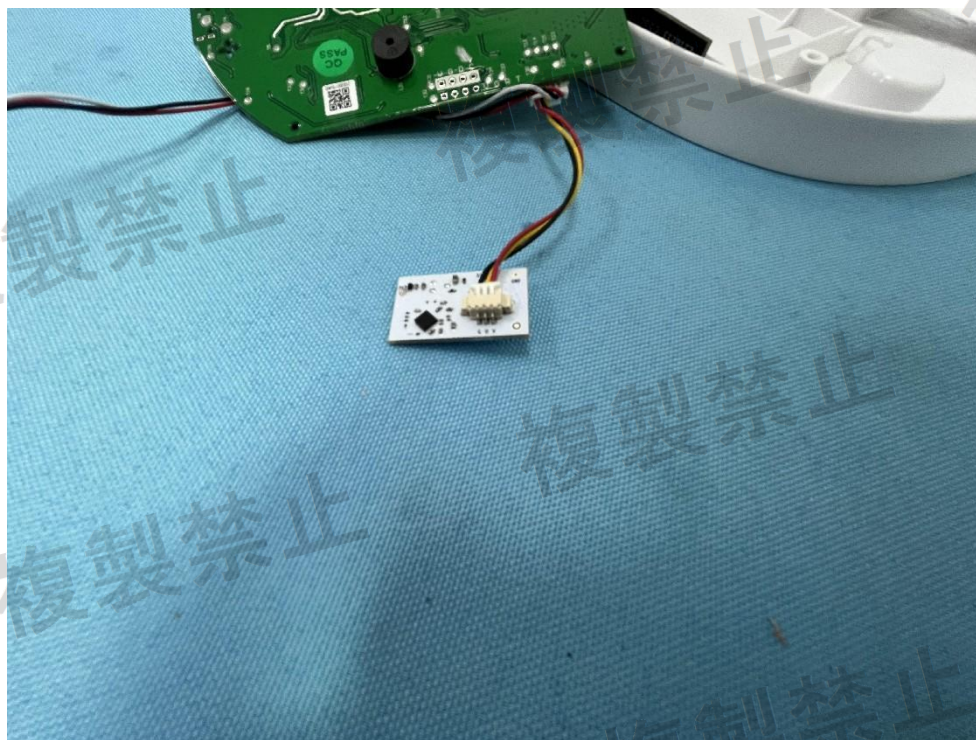


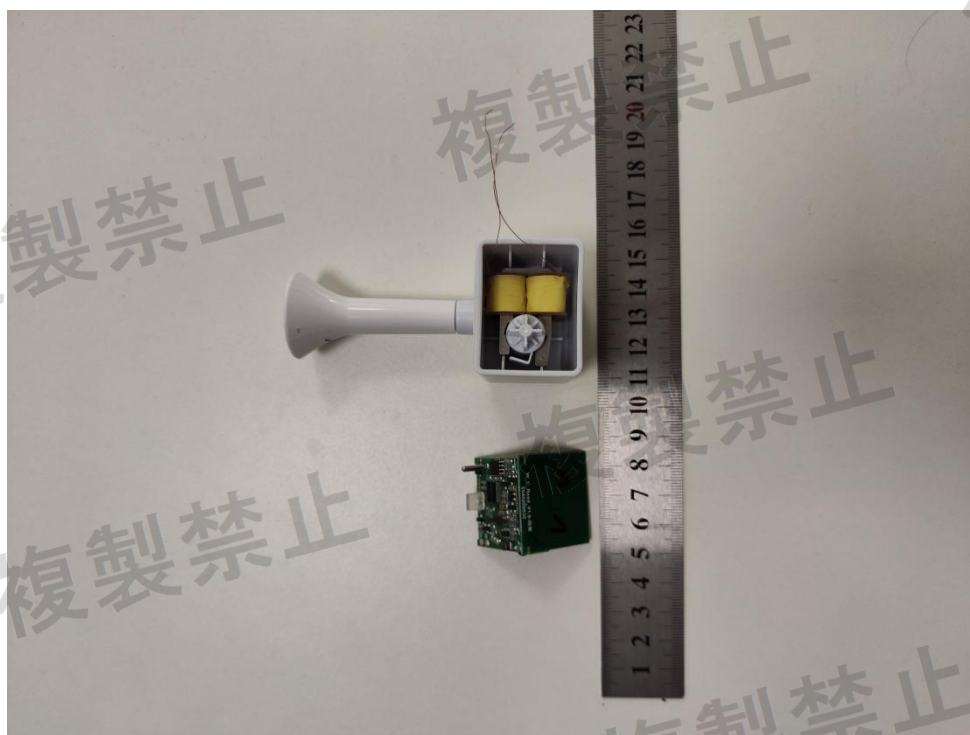


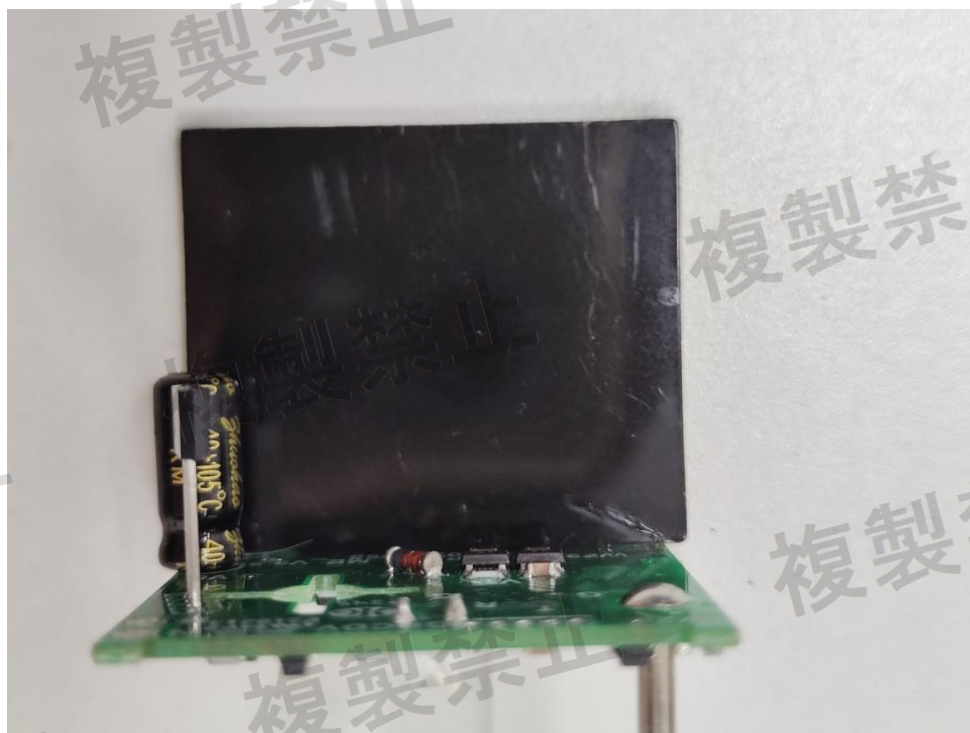
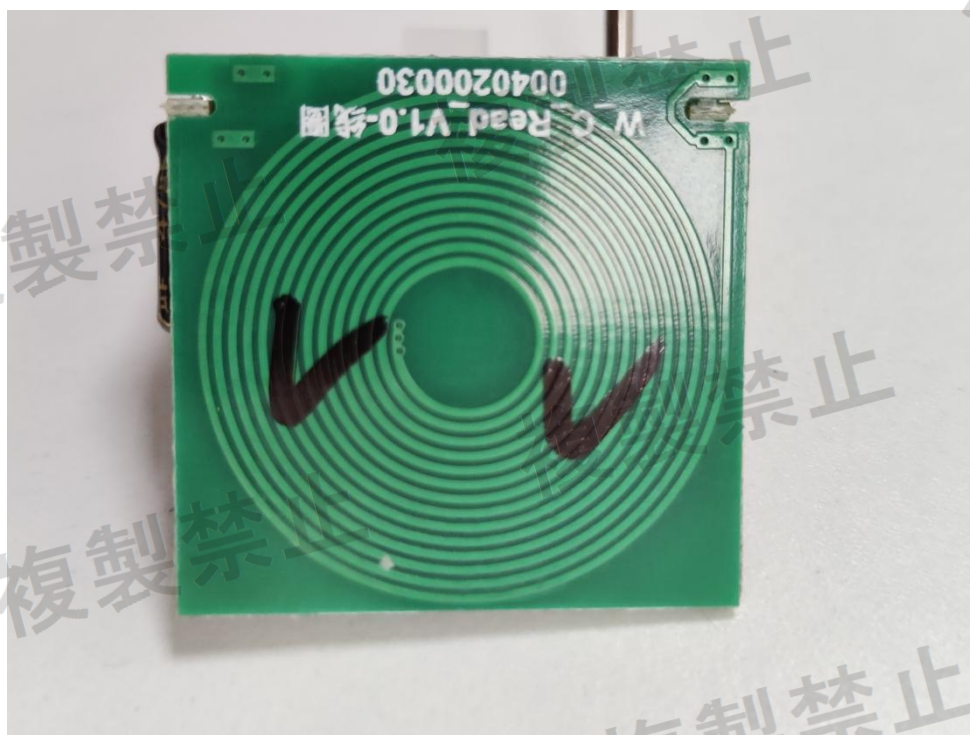
Radar module 1 ANT

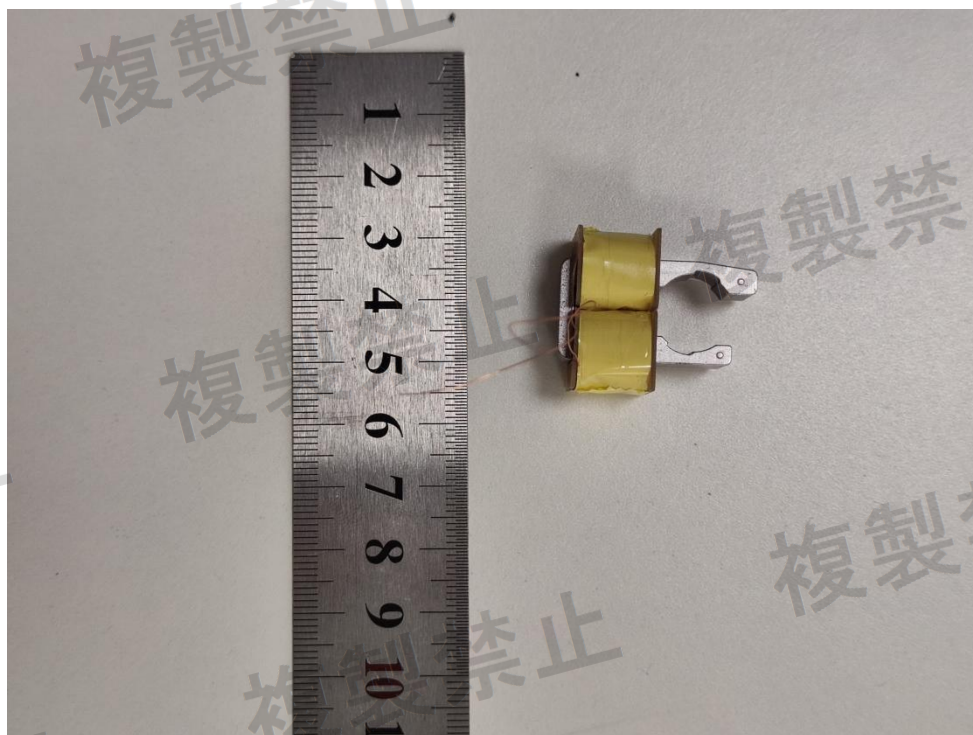
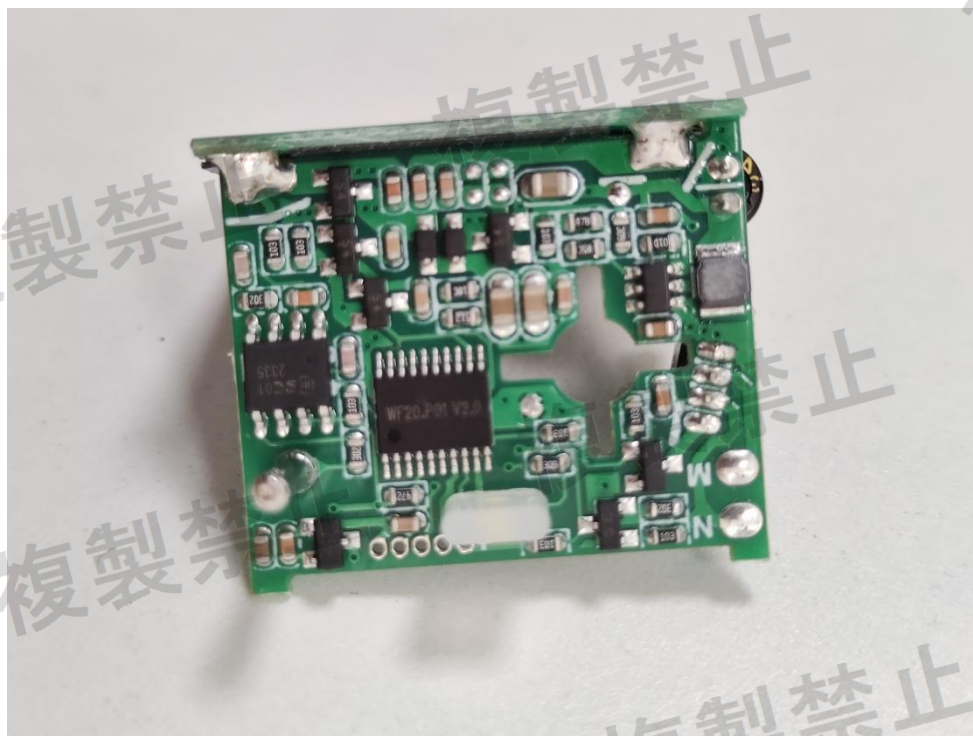
Radar module 2 ANT

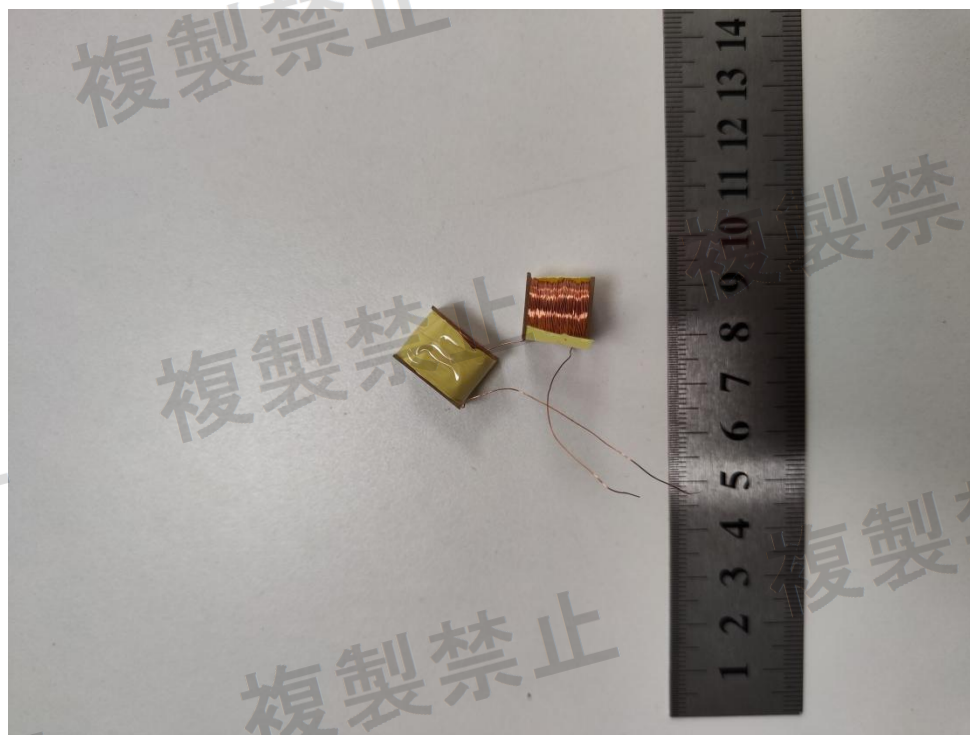
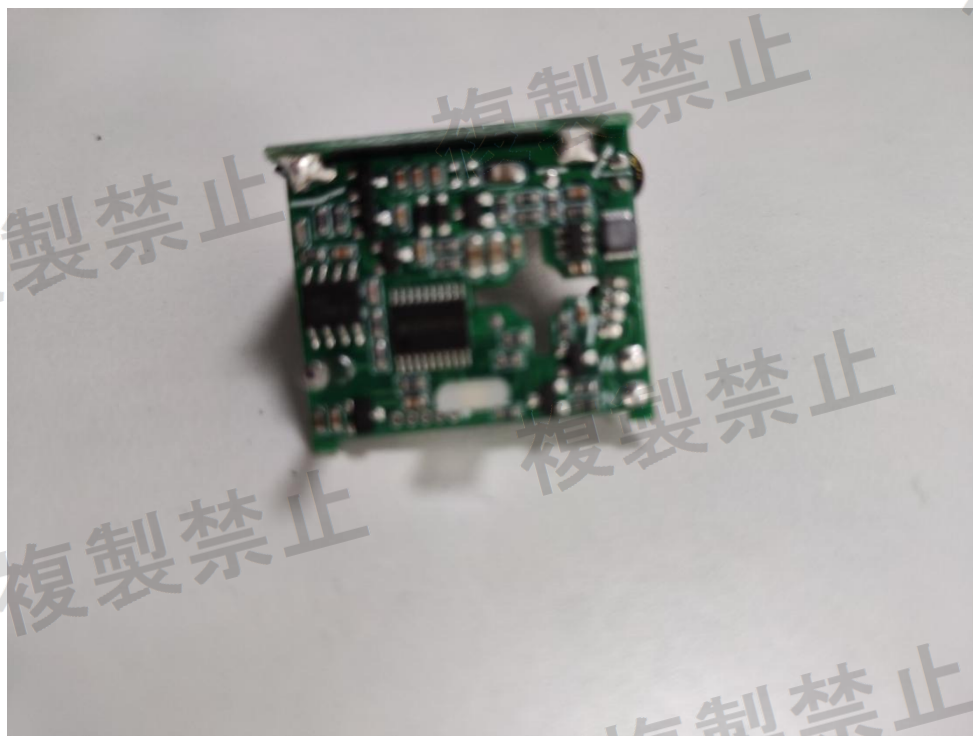


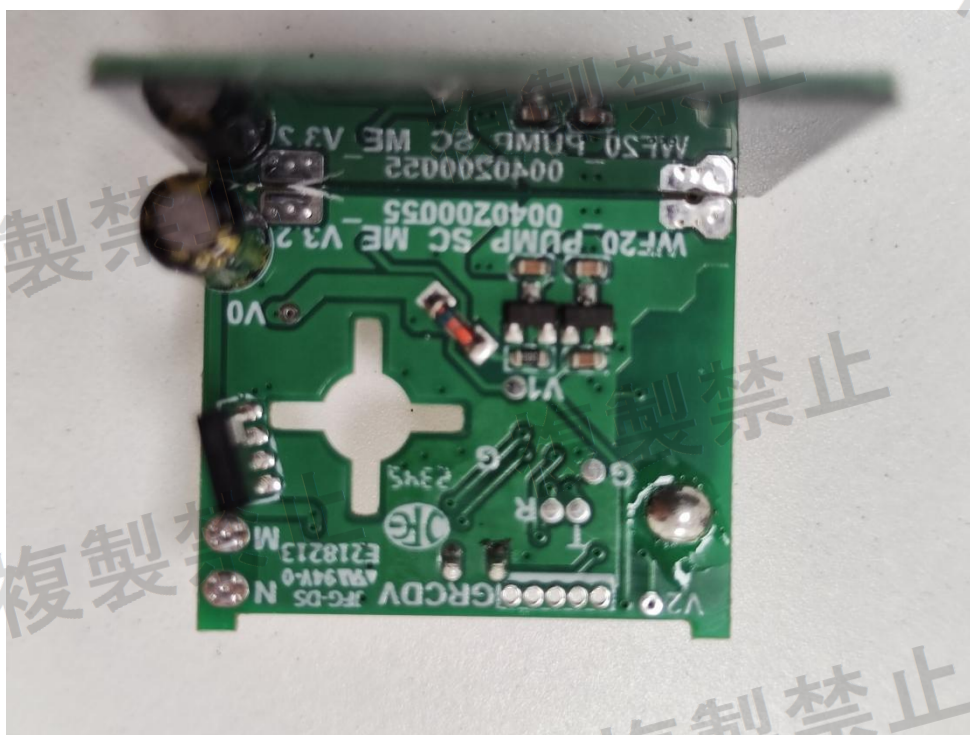












----- End of Report -----

