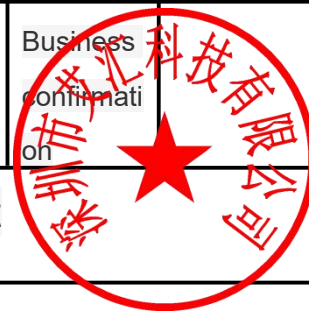


Antenna specification

Antenna Sample Confirmation From

Manufacturer	ShenZhen Aihui Technology Co., Ltd				
Customer	Shenzhen Huanying Technology Co., LTD				
Model	ZHX-2.4G				
Sample size	WIFI antenna wire length: 135mm 1.13 wire diameter black double-ended soldering wire				
Inspection item	Performance test	Visual inspection	Structure	In the news	Test results
Notes					
Quality Audit		Project Audit	Caoyang	Business confirmation	
The following is to be completed by the client					
Customer feedback					
Customer signature/seal					
date: 2025-05-01					



Antenna Test Report

Manufacturer: Shenzhen Aihui Technology Co. , Ltd.

Antenna

FPC

Description

Working band

2400-2500MHz

VSWR

≤2

Max Gain (dBi)

1.73dBi(Max.)

Impedance

50Ω

Test Equipment

HPE5071C、Shielding Room、3D automatic turntable

Antenna Description::

1. Grounding processing and picture description: no

2. Need to change the motherboard to match: no

- Test voltage: 3.6V, check the antenna contact is good before testing.
- The RF cable of the integrated tester is kept in a natural state and can not be curled.

Specification:test the specified power level, all indicators must conform to the specifications.

1. Project Image

2. Test Fixture

3. Antenna matching circuit

4. S11 test

5. Antenna passive efficiency and gain

6. Darkroom test equipment and data

7. Schematic diagram of antenna assembly

8. Antenna environment handling

9. Antenna mass production index

10. Structural drawing

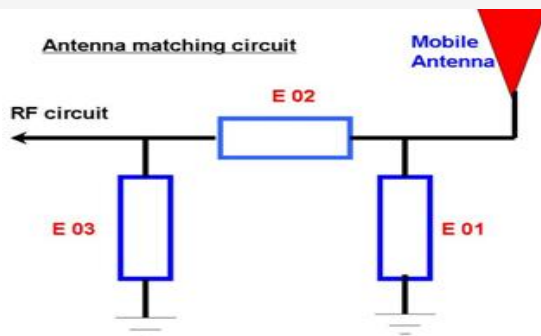
1. Project Image

The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

2. Test Fixture

Objective: to test the passive parameters of antenna as accurately as possible. Making Method: the handset is made of a 50 ohm coaxial cable, one end of which is connected to the test point of the back end of the matching circuit of the handset motherboard (front end of the RF test hole) , and the other end is connected to the SMA joint. The diagram is as follows:

3. Antenna matching circuit



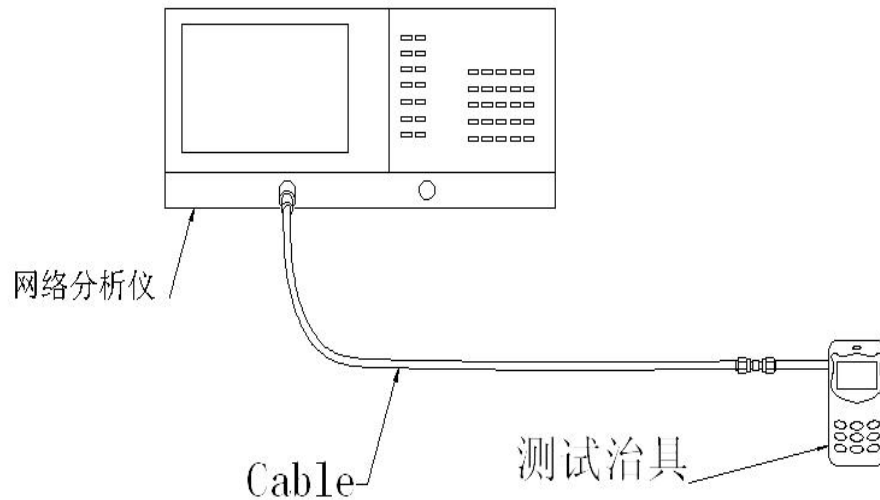
Modify

E01	E02	E03
No	No	No

Note: The match is unmodified.

4. S11 test

4.0 4.0s11 test method description of test equipment: Network Analyzer (E5071C) test method: a 50 ohm CABLE is used to export from the instrument test port. The SMA connector for connecting the handset is calibrated using a calibration piece, record the echo loss and standing wave ratio corresponding to the relevant frequency points. The test schematic is as follows:

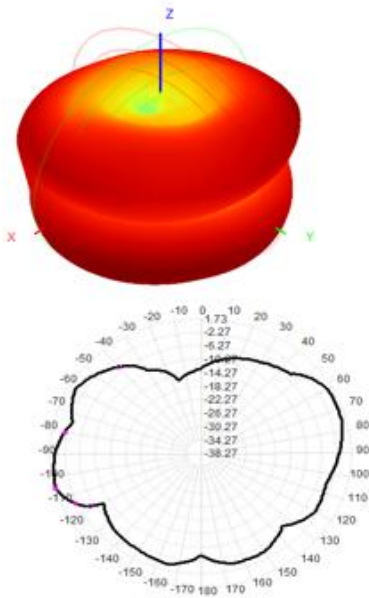


Darkroom test equipment and test data

5.1 Passive antenna data

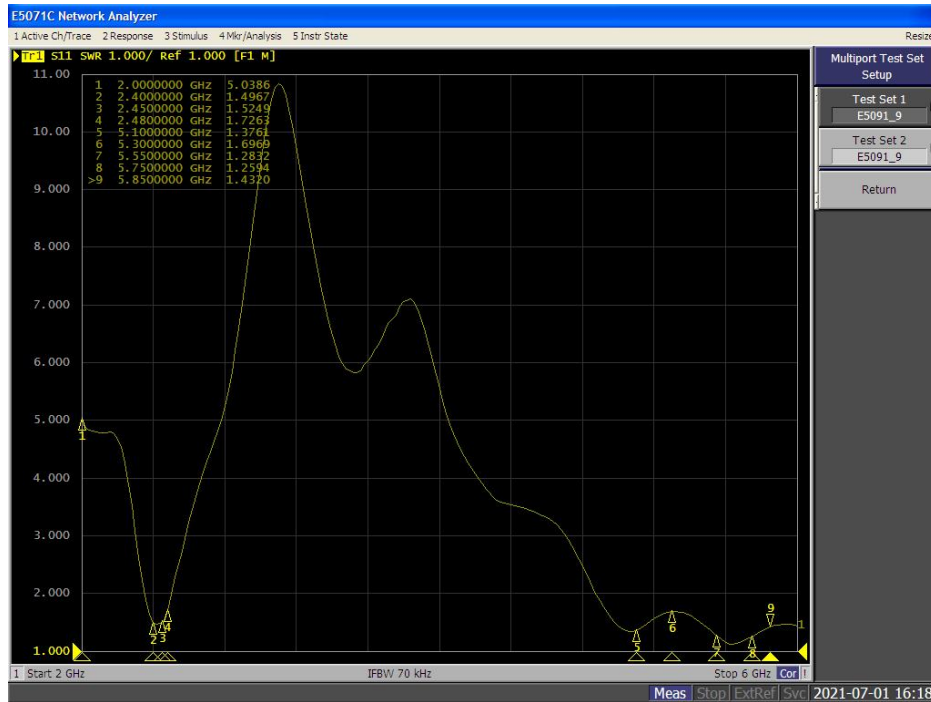
Testdata:

5.1 天线无源数据



测试数据:		
WIFI 2. 4G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	58.4	1.12
2410	59.5	1.05
2420	50.2	1.31
2430	51.5	1.66
2440	53.5	1.54
2450	51.5	1.48
2460	59.6	1.73
2470	58.7	1.04
2480	59.3	1.21

Antenna SWR



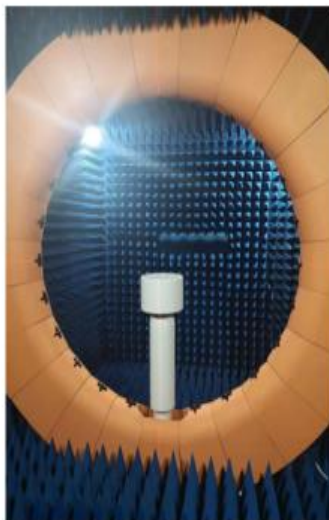
Address: 402TEL: 0755-23203435fax: 0755-23203435, Block C, Juxin Science and Technology Industrial Park, Nanchang community, xixiang, Baoan District, Shenzhen, China

6.Test Equipment

Test system: shielded darkroom

The temperature was $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and the humidity was $50\% \pm 15\%$

Test equipment: when testing passive data, use the Network analyzer AGILENTE5071C
to test active data, use the omnibus CMW500



7.Active antenna test data

/

8.Schematic diagram of antenna assembly

/

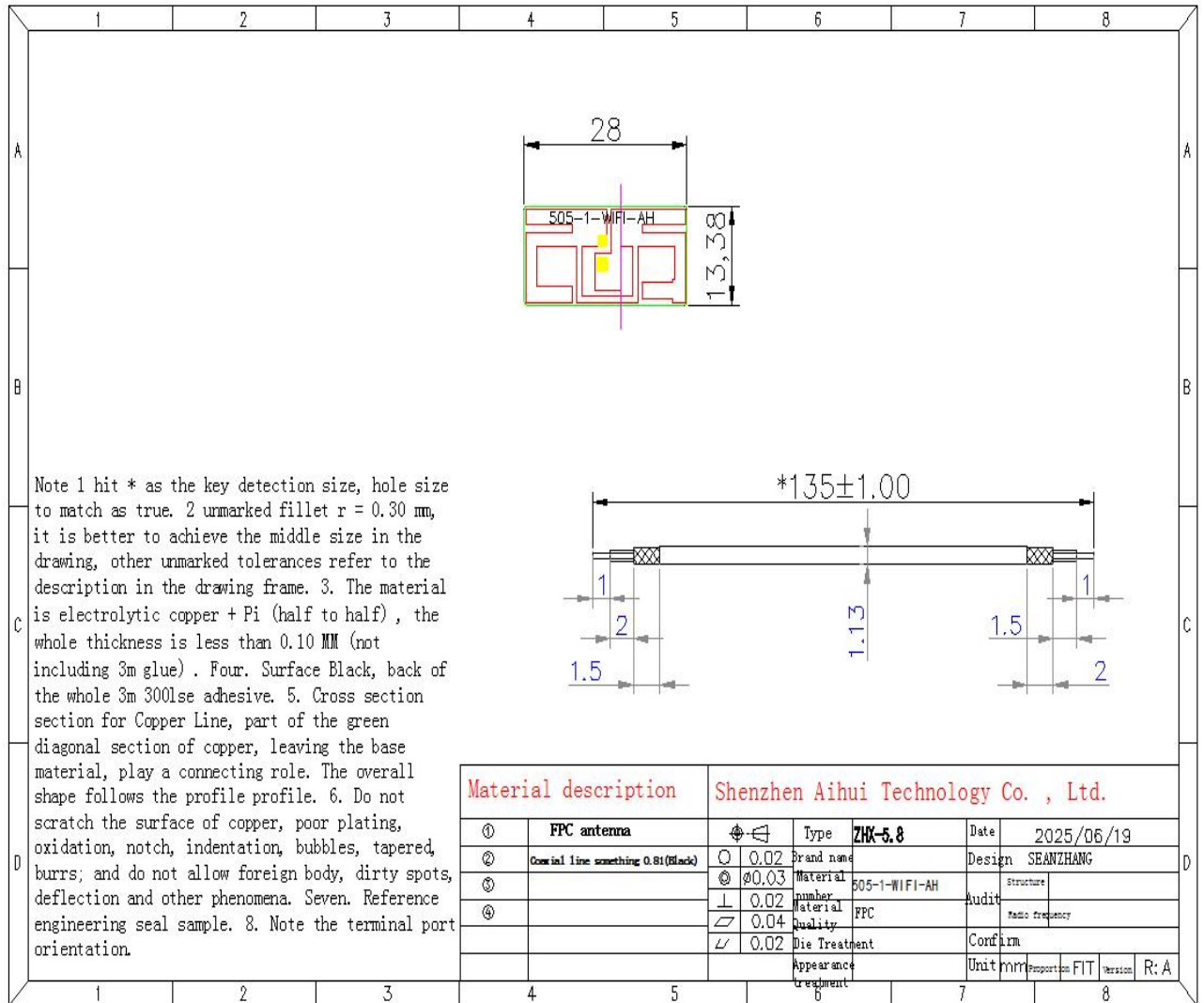
9.Antenna environment handling

/

10.Antenna mass production index

<p>When the antenna is mass-produced, the standing wave ratio is taken as the mass-produced test standard. Based on the differences of the project itself, the following criteria are given:</p>	<p>Standard for volume production</p>
<p>2400MHZ-2500MHZ</p>	<p>VSWR (Mass Production performance) & LT; VSWR(recognition performance) 0.5</p>

10.1 Structural drawings



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