Shenzhen Aihui Technology Co. , Ltd.

Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name	Ke Jin Ming				
Sample name	412A				
model	**Projector**				
Sample size	115m, wire diameter 1.13, first generation terminal/150mm, wire diameter 1.13, first generation terminal (black)				
Inspection item	**Performance test**	**Visual inspection**	**Structure**	**In the news**	**Test results**
Notes					
Quality Audit		Project Audit		Business confirmation	
The following is to be completed by the client					

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

Customer feedback	
Customer signature/seal	date:

Antenna Test Report

Test Unit: Shenzhen Aihui Technology Co. , Ltd.			
Materials	**FPC**		
Antenna form	**FPC**	Polarization mode	**Linear**
Application scenario	**Wifi /B**luetooth		
Working band	**2400Mhz-2500Mhz 5100Mhz-5850Mhz**	**VSWR**	**⩽2**

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Power	**Max：2W**	**Impedance**	**50Ω**
dBi	⩾		
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.

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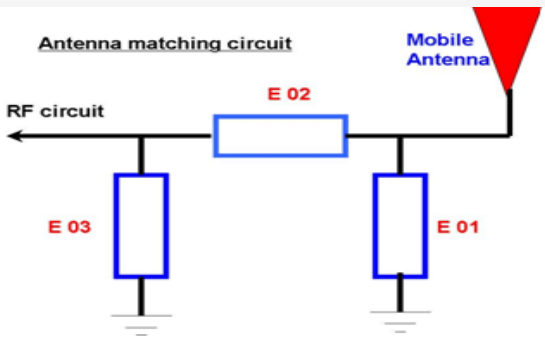
1.Project Image

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.

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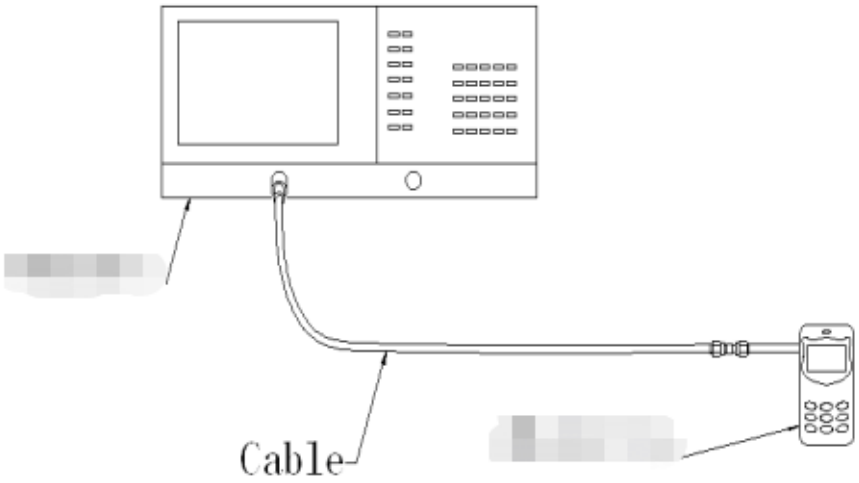
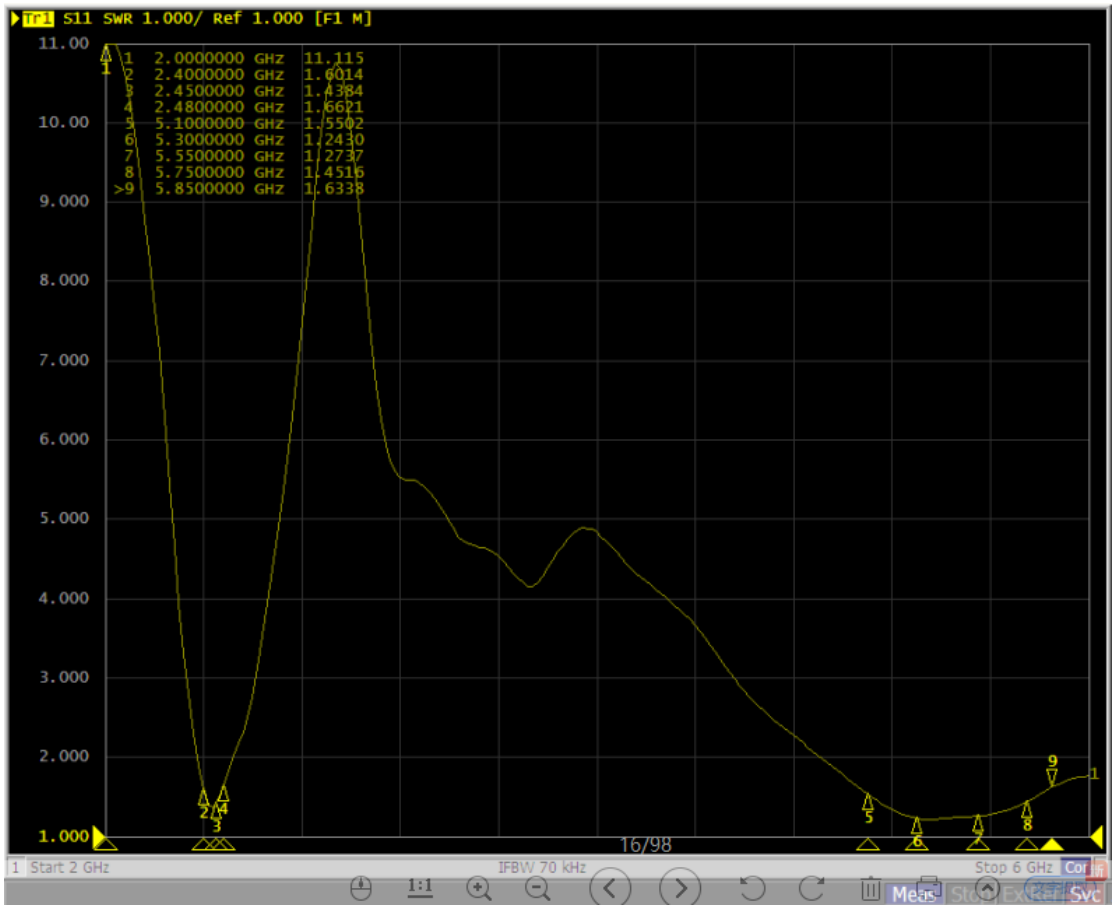
4.S11 test

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:



5.Darkroom test equipment and data



6.Test Equipment

Test system: shielded darkroom

The temperature was 22 ° C ± 3 ° C and the humidity was 50% ± 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

ANT0, ANT1 WIFI 2.4G + ANT0 Bluetooth		
Frequency（MHZ）	Efficiency（%）	Gain（dBi）
2400	59.54	1.30
2410	58.44	1.25
2420	58.35	1.71
2430	57.41	1.33
2440	55.25	1.26
2450	57.61	1.44
2460	54.25	1.05
2470	51.65	1.52
2480	58.41	1.73
2490	58.32	1.55
2500	59.41	1.62

ANT0, ANT1 WIFI: 5G		
Frequency（MHZ）	Efficiency（%）	Gain（dBi）
5100	54.74	1.01
5200	58.65	1.30
5300	57.93	1.02
5400	56.31	1.30
5500	51.44	1.42
5600	58.25	1.15
5700	54.63	1.41
5800	59.32	1.33
5900	51.41	1.02

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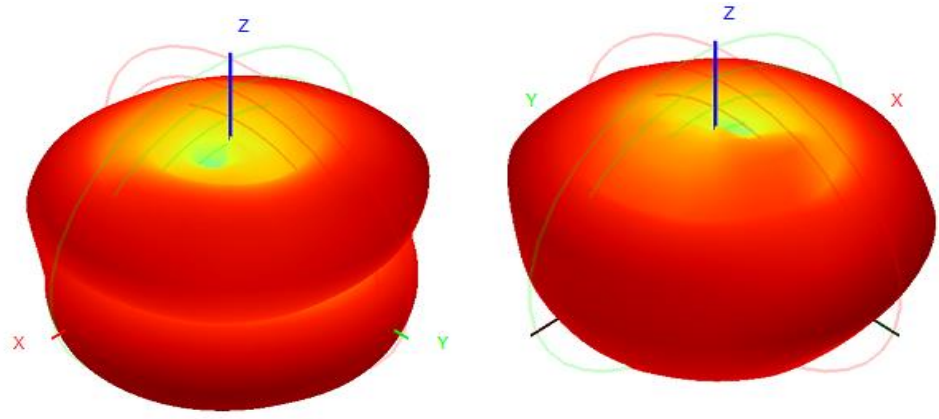
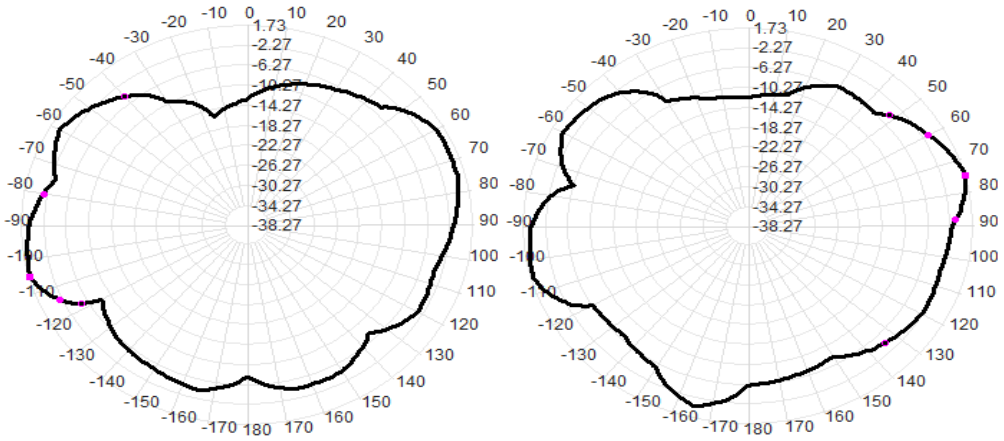
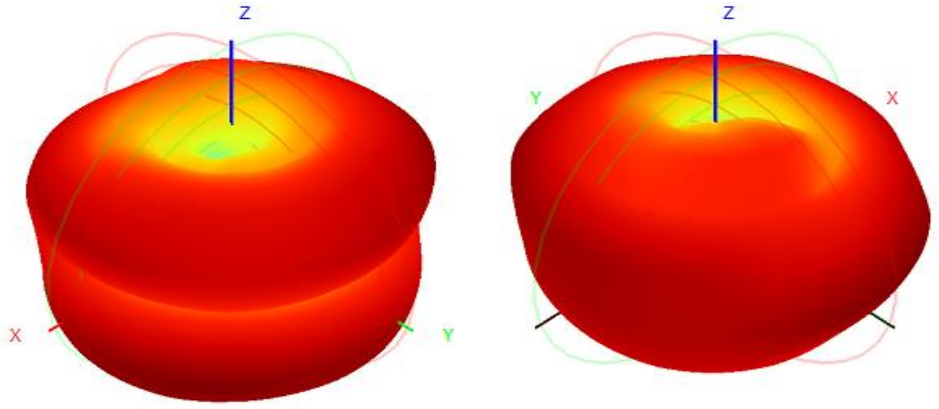
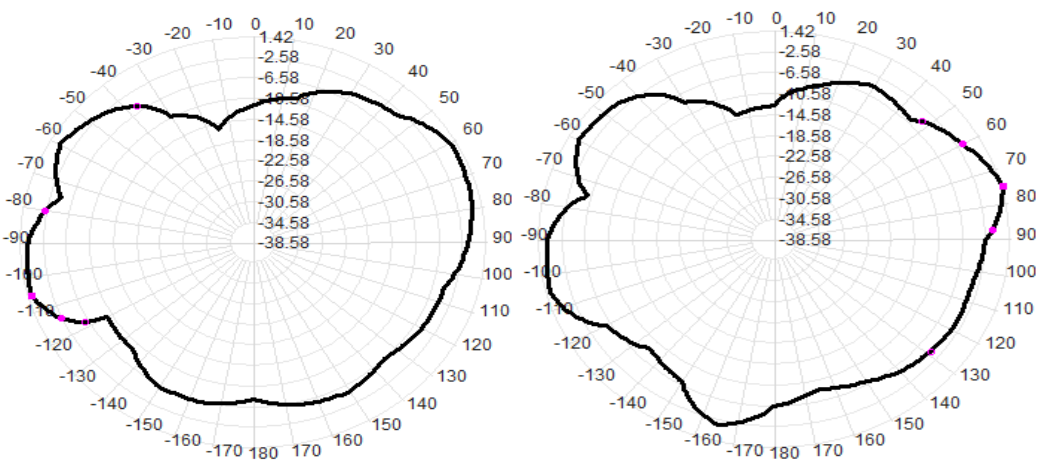
2.4G





5G





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Size