Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name		Ji mo ke			
Sample name		G1			
model		FPC			
Sample size	The main antenna (0.81) is black with a line length of 105mm. (4 generation terminal) The secondary antenna (0.81) is gray with a length of 171mm. (4 generation terminal)				
Inspection	Performance test	Visual inspection	Structure	In the news	Test results
Notes					
Quality Audit		Project Audit		Business confirm ation	
The following is to be completed by the client				nt	

feedback			
Customer signature/seal		date:	

Antenna Test Report

1

Test Unit: Sł	nenzhen Aihı	ui Technolog	y Co. , Ltd.
Materials	FPC		
Antenna form	PIFA	Polarization mode	Linear
Application scenario	2400Mhz-2500Mhz 5100Mhz-5850Mhz		
Working band	2400Mhz-2500Mhz 5100Mhz-5850Mhz	VSWR	≤2

Power	Max: 2W	Impedance	50Ω
dBi	≥2dBi		
Test Equipment	HPE5071C、Shieldir	ng Room、3D automa	tic turntable
 2. Need to change th Test voltage: The RF cable curled. 	1:: ssing and picture desc te motherboard to mar 3.6V, check the antenn e of the integrated test e specified power le	t ch: no a contact is good befor er is kept in a natural	state and can not be

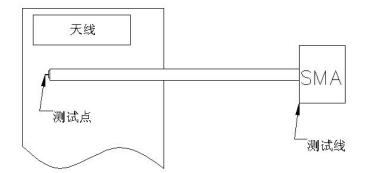
- 1.Project Image
- 2.Test Fixture
- 3. Antenna matching circuit
- 4.S11 test
- 5. Antenna passive efficiency and gain
- 6. Darkroom test equipment and data
- 7. Schematic diagram of antenna assembly
- 8. Antenna environment handling
- 9. Antenna mass production index
- 10.Structural drawing

1.Project Image

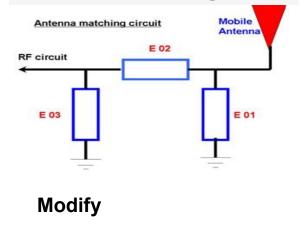
The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

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

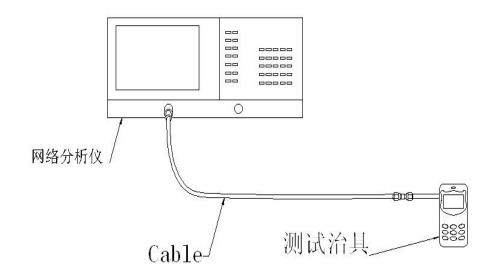


E01	E02	E03
Νο	Νο	No

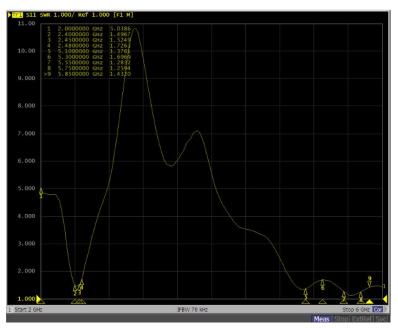
Note: The match is unmodified.

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:



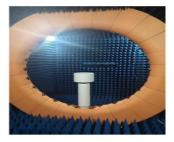




5.Test Equipment Test system: shielded darkroom The temperature was 22 ° C ± 3 ° C and the humidity was 50% ± 15%

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









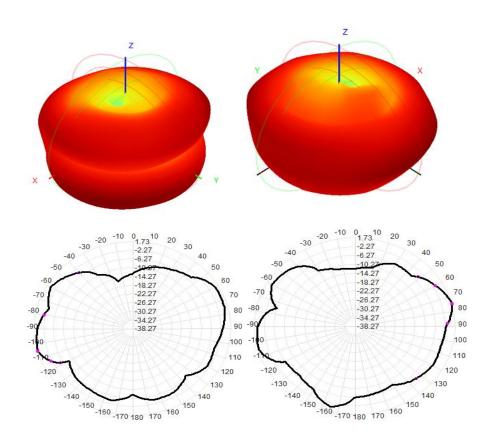
nce and Shenzhen

6. Active antenna test data

Frequency H	Band	2.4GWIFI-B 模		5GWIFI-A 模			
channel		L	М	Н	L	М	Н
TRP		10.8	11.4	11.5	10. 5	10.3	10.8
TIS				-72.3			-68.3
Frequency H	Band	2.4WIF	I-G 模	1	2.4WIF	I−N 模	
Frequency H channel	Band			Н		I−N 模 M	Н
			M		L	M	H 9. 9

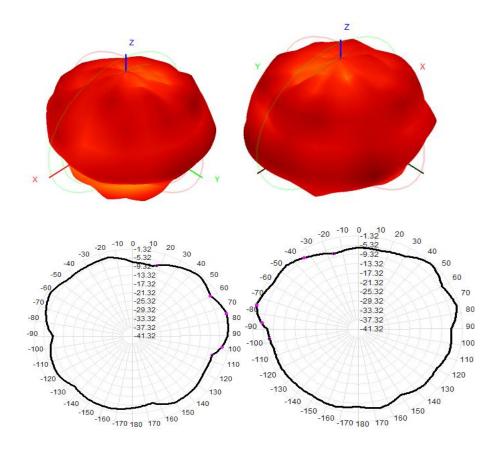
Test Result:				
Freq(MHz)	Efficiency (%)	Gain (dBi)		
2400	58.4	1.12		
2410	59.5	1.05		
2420	50.2	1.31		
2430	51.5	0.98		
2440	53.5	0.88		
2450	51.5	0.74		
2460	59.6	0.95		

2470	58.7	1.04
2480	593	1.21



Test Result:		
Freq(MHz)	Efficiency (%)	Gain (dBi)
5000	55.2	0.54
5100	54.5	0.60
5200	56.3	0.87
5300	57.5	0.98
5400	49.8	1.31
5500	49.6	1.25

5600	48.7	1.31	
5700	51.2	1.05	
5800	52.5	1.14	



7.Antenna environment handling

The original environment, we do not do processing

8.Antenna mass production index

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:

Frequency	Standard for volume production
2400 MHZ -2500MHZ	VSWR (Mass Production performance) &
5100 MHZ-5850 MHZ	LT; VSWR(recognition performance) 0.5

1575 MHZ -5800MHZ	VSWR (Mass Production performance) & LT; VSWR(recognition performance) 0.5

10. Structural drawings

