Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name		Zhi	Teng		
Sample name		F108W			
model					
Sample size	WIFI antenna: line length: 120mm 4G terminal				
Inspection	Performance test	Visual inspection	Structure	In the	Test results
Notes					
Quality Audit		Project Audit		Business confirm ation	
The following is to be completed by the client					

Customer	
feedback	
Customer	
signature/seal	data

Antenna Test Report

Test Unit: Shenzhen Aihui Technology Co., Ltd.					
Materials	FPC coaxial line				
Antenna type	MonopoleType Polarization mode Linear				
Application					
scenario					
Working band	WIFI /BT VSWR ≤2				
Power		Impedance	50 Ω		

dBi	
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable
2. Need to change th Test voltage: The RF cable curled.	sing and picture description: no e motherboard to match: no 3.6V, check the antenna contact is good before testing. e of the integrated tester is kept in a natural state and can not be specified power level, all indicators must conform to the

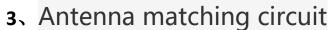
- 1. Project Image
- 2. Test Fixture
- 3. Antenna matching circuit
- 4.S11 test
- 5. Antenna passive efficiency and gain
- 6. Darkroom test equipment and data
- 7. Schematic diagram of antenna assembly
- 8. Antenna environment handling
- 9. Antenna mass production index
- 10.Structural drawing

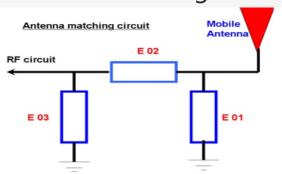
1.Project Image

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:



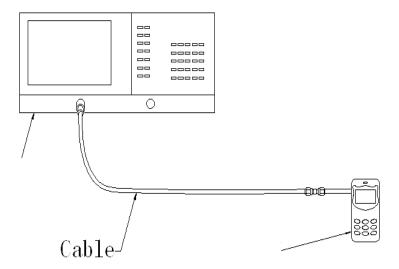


E01	E02	E03
No	No	No

Note: The match is unmodified.

4.S11 test

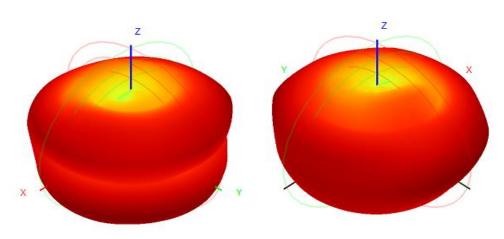
4.0 4.0s11 test method description of test equipment: Network Analyzer (E5071C) test method: a 50 ohm CABLE is used to export from the instrument test port. The SMA connector for connecting the handset is calibrated using a calibration piece, record the echo loss and standing wave ratio corresponding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

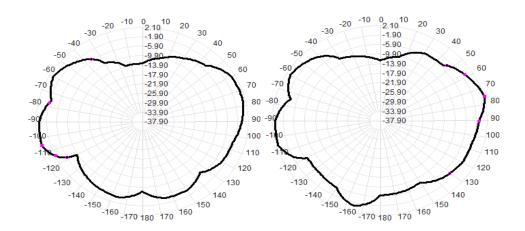


5. Darkroom test equipment and data

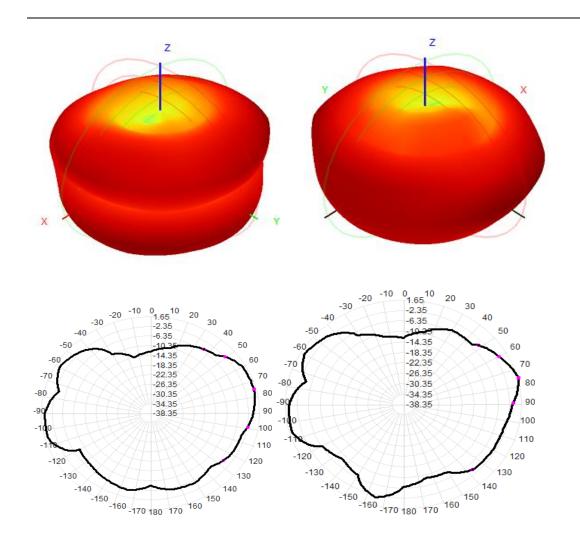
WIFI&BT

WIFI 2.4G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
2400	54.74	1.30
2410	55.65	1.58
24 20	58.63	1.99
2430	52.69	1.60
2440	57.41	2.10
2450	59.31	1.44
2460	54.85	1.60
2470	56.32	1.55
2480	51.56	1.52



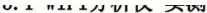


WIFI 5.8G		
Freq(MHz)	Efficiency (%)	Gain (dBi)
5100	55.54	1.35
5200	56.85	1.42
5300	57.41	1.11
5400	56.31	1.25
5500	58.14	1.65
5600	52.65	1.25
5700	54.25	1.44
5800	55.41	1.45
5900	56.30	1.55



SWR







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





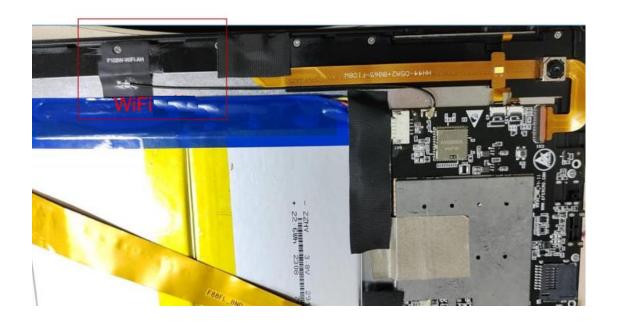




7. Active antenna test data

Frequency Band		2. 4GWIFI-B			5.8GWIFI-A		
channel	L	М	Н	L	М	Н	
TRP	15. 41	15. 77	15. 89	13. 56	13. 13	12. 25	
TIS			-81. 23			-68. 39	
Frequency Band		2. 4WIFI-G	•		2. 4WIFI-	N	
Frequency Band channel	L	2. 4WIFI-G	Н	L	2. 4WIFI-	H	
	L 13. 86			L 13. 44			

8. Schematic diagram of antenna assembly



9.Antenna environment handling

10.Antenna mass production index

When the antenna is mass-produced, the	
standing wave ratio is	
taken as the	Standard for volume
mass-produced test	production
standard. Based on the	production
differences of the project	
itself, the following criteria	
are given:	
	VSWR (Mass Production
	performance) & LT;
680MHZ-2700Mhz	VSWR(recognition
	performance) 0.5

10.1 Structural drawings

