Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name	Zhi Teng				
Sample name		DF	102		
model					
Sample size					
	Performance	Visual	Structure	In the	Test
Inspection item	test	inspection	Structure	news	results
Notes					
				Business	
Quality Audit		Project Audit		confirm	
				ation	
The following is to be completed by the client					

Customer feedback	
Customer signature/seal	
	date:

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	VSWR	≤2	
Power	Max: 2W	Impedance	50Ω	

dBi	
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable
	sing and picture description: no
Test voltage:	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
Specification:test the specifications.	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:

3. Antenna matching circuit

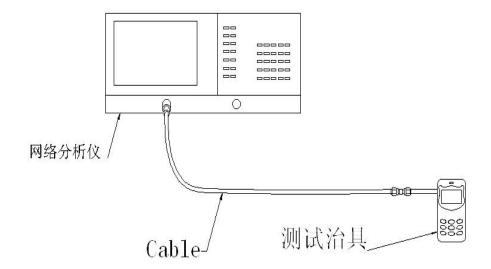
Modify

E01	E02	E03
No	No	No

Note: The match is unmodified.

4.S11 test

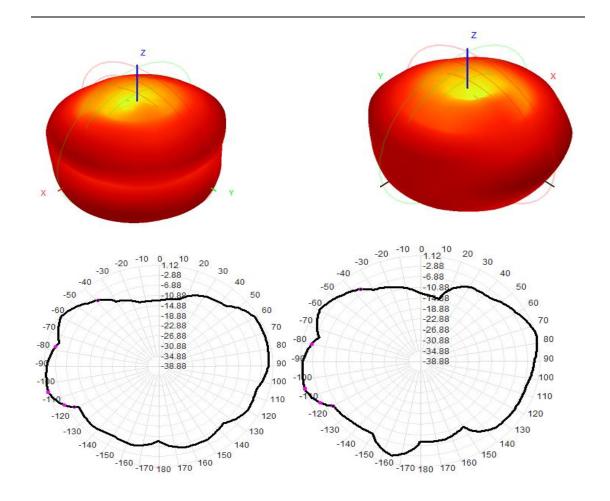
4.0 4.0s11 test method description of test equipment: Network Analyzer (E5071C) test method: a 50 ohm CABLE is used to export from the instrument test port. The SMA connector for connecting the handset is calibrated using a calibration piece, record the echo loss and standing wave ratio corresponding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



5. Darkroom test equipment and data

WIFI&BT

WIFI 2.4G			
Freq(MHz)	Efficiency (%)	Gain (dBi)	
2400	58.5	1.25	
2410	56.9	1.44	
2420	57.4	1.30	
2430	58.6	1.20	
2440	57.2	1.51	
2450	51.6	1.66	
2460	59.3	1.25	
2470	52.5	1.30	
2480	53.4	1.25	



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. 4WIFI B模		N模			
channel	L	M	Н	L	M	Н
TRP	15.69	15. 15	15. 37	13.36	13. 58	13.83
TIS			-84. 13	Y .		-68. 78
Frequency Band		G模	6	7.		21
channel	L	M	H	L	M	H
TRP	13.68	13. 46	13. 36			
TIS			-68.78	V		8

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 mass-produced test standard. Based on the differences of the project itself, the following criteria are given:

Standard for volume production

	VSWR (Mass Production		
	performance) & LT;		
680MHZ-2700Mhz	VSWR(recognition		
	performance) 0.5		

10.1 Structural drawings

