Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name	Zhi Teng				
Sample name	DF156				
model					
Sample size					
Inspection item	Performance	Visual	Structure	In the	Test
	test	inspection	Structure	news	results
Notes					
				Business	
Quality Audit		Project Audit		confirm	
				ation	
The following is to be completed by the client					

feedback			
Customer signature/seal		date:	

Antenna Test Report

1

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	Max: 2W	Impedance	50Ω		

dBi	
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable
Antenna Description	:: sing and picture description: no
 2. Need to change th 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

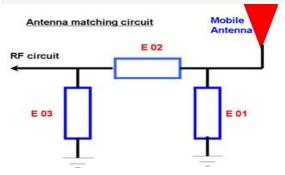
1.Project Image

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

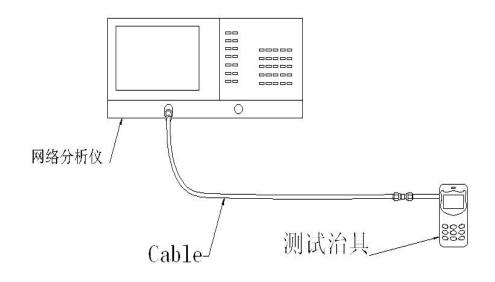


Modify		
E01	E02	E03
No	No	No

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:

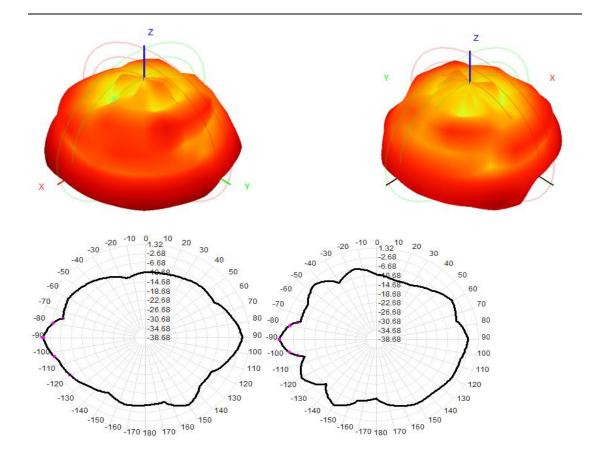


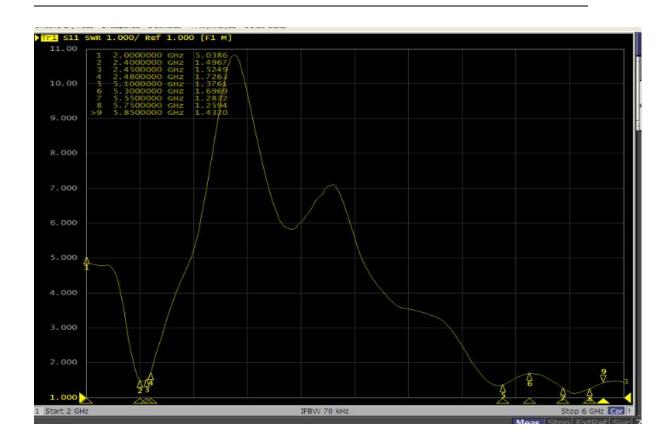
5. Darkroom test equipment and data

WIFI&BT:

WIFI 2.4G					
Freq(MHz)	Efficiency (%)	Gain (dBi)			
2400	58.4	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	59.3	1.21			

WIFI :





6.Test Equipment Test system: shielded darkroom

The temperature was 22 ° C \pm 3 ° 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





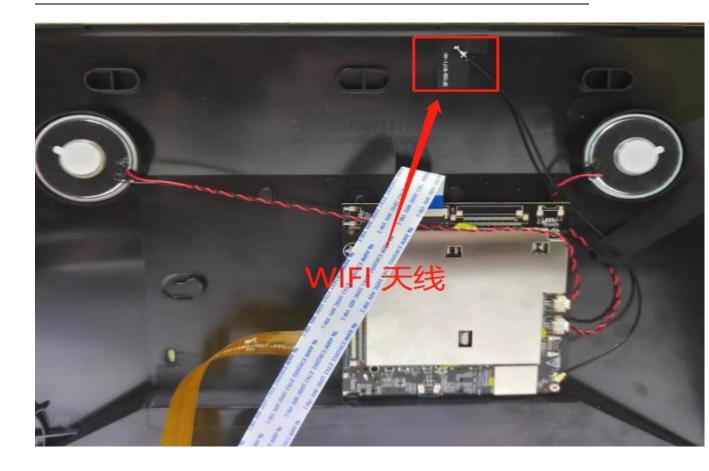




7.Active antenna test data

Frequency Band	2.4GW IF	I−B 模				
channel	L	М	Н			
TRP	14.5	13.3	13.8			
TIS			-82.3			
Frequency Band	2.4WIFI	G 模	<u>.</u>	2.4WIFI	-N 模	
Frequency Band channel			Н			Н
		М	H 13. 3	L		H 13. 1

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:	

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Standard for volume production

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

10.1 Structural drawings

