Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd				
Customer name	HaoQing				
Sample name		C6			
model					
Sample size	3rd gen	eration ter wire di	rminal, iametei		, 0.81
Inspection	Performance test	Visual inspection	Structure	In the news	Test results
item					
Notes					
Quality Audit		Project Audit		Business confirm ation	
The follow	wing is to	be comple [.]	ted by t	the clie	nt

Customer 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	2400Mhz-2500Mhz 5100Mhz-5850Mhz	VSWR	≤2
Power	Max: 2W	Impedance	50Ω

dBi	≥1dBi
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable
 2. Need to change th ● Test voltage: ● The RF cable curled. 	Sing and picture description: no the 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 e specified power level, all indicators must conform to the

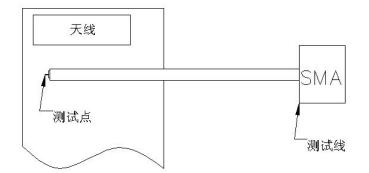
- 1.Project Image
- 2.Test Fixture
- 3. Antenna matching circuit
- 4.S11 test
- 5. Antenna passive efficiency and gain
- 6. Darkroom test equipment and data
- 7. Schematic diagram of antenna assembly
- 8. Antenna environment handling
- 9. Antenna mass production index
- 10.Structural drawing

1.Project Image

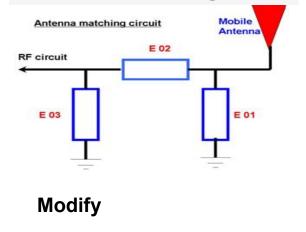
The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

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

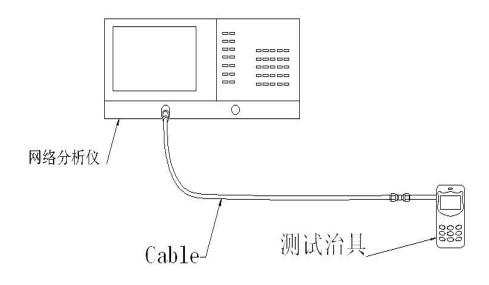


E01	E02	E03
No	No	No

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:



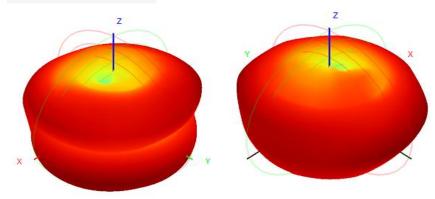
5. Darkroom test equipment and data

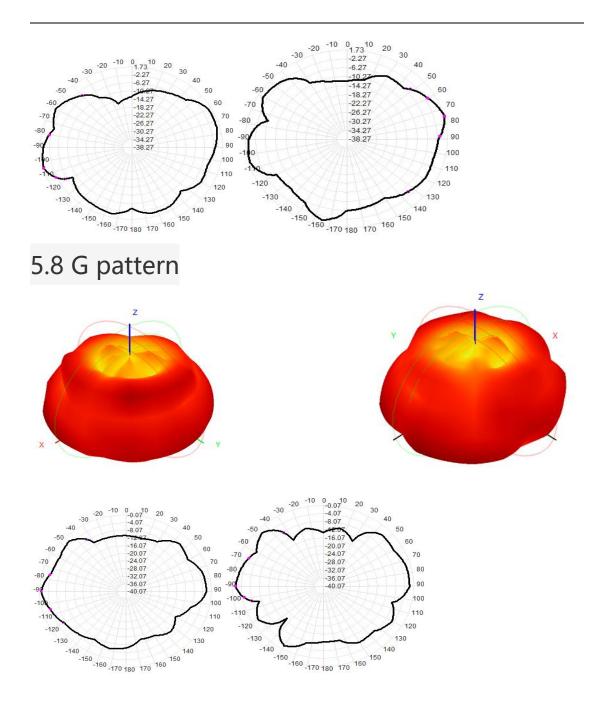
2. 4G		2.4G/B			2.4G/G	
Channel	1	6	12	1	6	12
TRP	11.5	12.3	11.7	10.5	10.6	11.4
TIS			-79.5			-69.7
0.40	2. 4G/N		5.8G/A			
2. 4G		2. 4G/	N	5.86/A		
Channel	1	6		5.8G/A 36	64	165
		6	12		64 10.5	165 10.3

Test Data: WIFI 2.4G			
Freq(MHz)	Efficiency (%)	Gain (dBi)	
2400	58.4	1.33	
2410	59.5	1.48	
2420	50.2	1.29	
2430	51.5	1.30	
2440	53.5	1.24	
2450	51.5	1.50	
2460	59.6	1.60	
2470	58.7	1.73	
2480	59.3	1.50	

Test Data: wIFI 5.86			
Freq(MHz)	Efficiency (%)	Gain (dBi)	
5000	55.2	-0.98	
5100	54.5	-1.20	
5200	56.3	-1.30	
5300	57.5	-1.14	
5400	59.8	-1.30	
5500	59.6	-0.07	
5600	58.7	-0.19	
5700	51.2	-0.09	
5800	52.5	-1.14	
5850	53.1	-1.03	

2.4 G pattern





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

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
2400 MHZ -25000MHZ 5100MHZ-5850MHZ	VSWR (Mass Production performance) & LT; VSWR(recognition performance) 0.5

10.1 Structural drawings

