Antenna specification

Antenna Sample Confirmation From

Name of supplier	ShenZhen Aihui Technology Co., Ltd					
Customer name		Ju ren				
Sample name		T55				
model		Cell phones	S			
Sample size						
	Performance	Visual	Structure	In the	Test	
Inspection	test	inspection	Structure	news	results	
item						
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				
Antenna form	PIFA	Polarization mode	Linear		
Application scenario	GSM4+WCDMA+LTE+W/G/B				
Working band	824Mhz-2690Mhz				

Power	Max: 2W	Impedance	50Ω	
dBi	≥2dBi			
Test Equipment	HPE5071C、Shielding Room、3D automatic turntable			

Antenna Description::

- 1. Grounding processing and picture description: no
- 2. Need to change the motherboard to match: no
 - Test voltage: 3.6V, check the antenna contact is good before testing.
 - The RF cable of the integrated tester is kept in a natural state and can not be curled.

Specification:test the specified power level, all indicators must conform to the specifications.

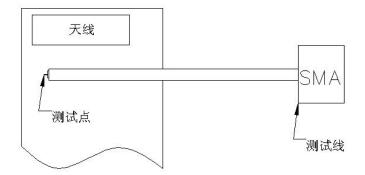
- 1. Project Image
- 2. Test Fixture
- 3. Antenna matching circuit
- 4.S11 test
- 5. Antenna passive efficiency and gain
- 6. Darkroom test equipment and data
- 7. Schematic diagram of antenna assembly
- 8. Antenna environment handling
- 9. Antenna mass production index
- 10.Structural drawing

1.Project Image

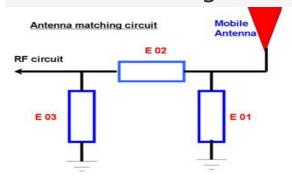
The final verification antenna performance prototype in our company for at least one year, easy to analyze and solve the problem of antenna mass production, to ensure the quality of antenna shipment

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



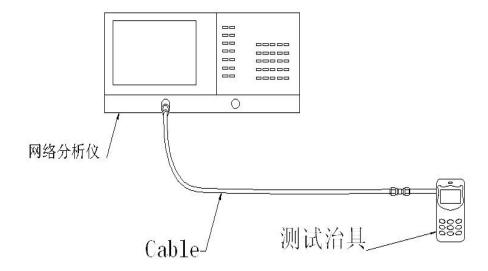
Modify

E01	E02	E03
No	No	No

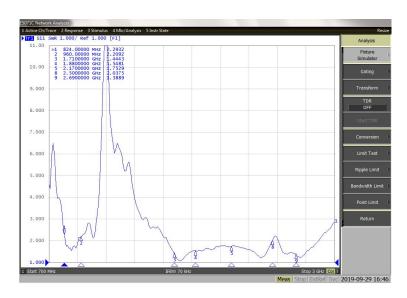
Note: The match is unmodified.

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:



4.1 SWR



5.Darkroom test equipment and data

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









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Shenzhen

5. Active antenna test data

Frequency Band	GSM900				DCS1800		
channel	L	M	Н	L	М	Н	
TRP	27. 5	28. 5	28. 5	26. 5	25. 8	25. 4	
TIS			-103. 4			-102.8	
Frequency Band		EGSM850			PCS1900		
channel	L	M	Н	L	М	Н	
TRP	27. 5	27.8	26. 9	25. 3	25. 6	25. 8	
TIS			-101.8			-103. 7	
Frequency Band		WCDMA B2	2	WCDMA B4			
channel	L	M	Н	L	М	Н	
TRP	18.8	19. 5	18. 7	18.9	19.6	19.5	
TIS			-103.9			-102.8	
Frequency Band	WCDMA B5				1	ı	
channel	L	М	Н	L	М	Н	
TRP	18.5	17.5	17.6				
TIS			-102.8				

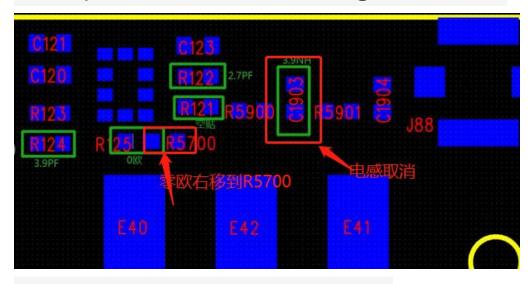
Frequency Band	LTE; B2				LTE; B	4
channel	L	M	Н	L	M	Н
TRP	19.8	19.9	18. 2	17.5	18.5	17.7
TIS			-92.5			-90.6

Frequency Band		LTE; B5					L	TE; B1	.2		
channel	L	М]	Н		L		M		Н
TRP	17. 5	18. 5		18.	8	14.	5	15	. 1	14. 8	3
TIS				-91.	. 4					-88.	3
Frequency Band		LTE;	B66								
channe1	L	M		I	Н						
TRP	16. 7	17.8	}	18.	2						
TIS				-90.	. 5						
2. 4G		B模式				G 模式					
channel	1	6	1	2	1		6		12	2	
TRP	10.6	10.8	11.1		10.2		9.9		9.5		
TIS			-78.3	}					-67.5		
2. 4G		N 模式									
channel	1	6		12	I		М		Н		
TRP	9.9	10.2	10.1								
TIS			-65.3	3							

5G	A 模式				N 模式	
channel	36	64	165	36	64	165
TRP	9.3	9.3	9.1	8.8	8.9	8.4
TIS			-66.1			-64.3



6.The panel matches the change schematic



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
820 MHZ -2690MHZ	VSWR (Mass Production performance) & LT; VSWR(recognition performance) 0.5
1575 MHZ -5800MHZ	VSWR (Mass Production performance) & LT; VSWR(recognition performance) 0.5

10. Structural drawings

