



Approval Sheet

客户名称 _____ 拓步 Tuobu

(Customer Name)

产品名称 _____ P2(5G WIFI antenna)

(Specification)

客户料号 _____

(Customer P/N)

产品料号 _____

(O/I)

送样日期 _____ 2026-3-12

(Date)

Frequency band	2. 4G/5. 8G WIFI/BT		
Version	A		
RF	Chengzengyi	Confirm	
Structural Engineer	Yangguojun		
Customer confirmation			
Date			

Address: West Tower 403, Building2,Minqi Science Park (Ganghongji Building)! University Town, Xili, Nanshan District, Shenzhen

TEL: 0755-88602767

FAX: 0755-8279388

Catalogue

1. Project Images

2. Test Fixture

3. Matching Circuit

4. S11 Test & Electrical Performance

- 4.1 S11 Test Method & Specification Standard

- 4.2 S11 Parameter Images

5. Power and Sensitivity Test

- 5.1 Test Data

- 5.2 Passive Efficiency

- 5.3 3D Radiation Pattern (Apple Plot)

6. Mechanical Drawing

1. Project image (for reference only)

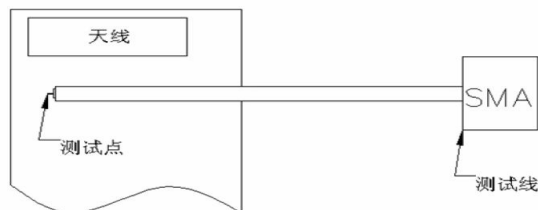


WIFI/ BT 天线

2. Passive Test

Purpose: To test the passive parameters of the antenna as accurately as possible.

Method: This fixture uses a 50 ohm coaxial cable, with one end connected to the test point at the back end of the matching circuit (RF test hole front section) of the mobile phone motherboard, and the other end connected to the SMA connector. As shown in the following figure:



Deshijin Technology Co., Ltd. - Certificate of Conformity

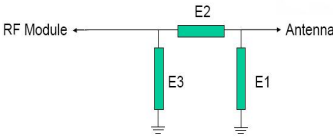
The following table shows the performance test indicators for P2-5G-WIFIantennaproduced antennas:

:

5G WIFIantenna				
	Frequency (MHz) -	VSWR	Frequency (MHz) -	VSWR
Band	Transmit		Receive	
2.4G WIFI/BT	2400-2550	≤3.0	2400-2550	≤3.0
5.8G WIFI	5150-5850	≤3.0	5150-5850	≤3.0

3.Matching circuit

Main Antenna (No change in matching)



Element	Matching Value
E1(0201)	
E2(0201)	
E3(0201)	

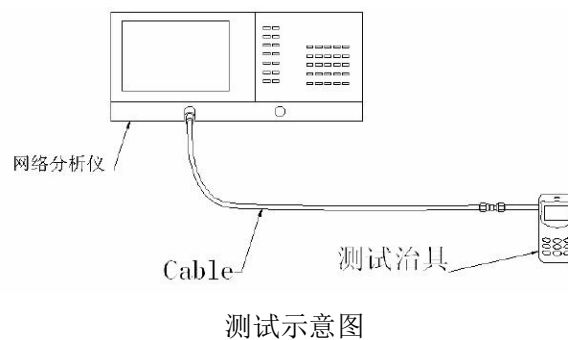
Address: West Tower 403, Building2 Minqi Science Park (Ganghongji Building), University Town, X
Nanshan District, Shenzhen
TEL: 0755-88602767
FAX: 0755-8279388

4. S11Test

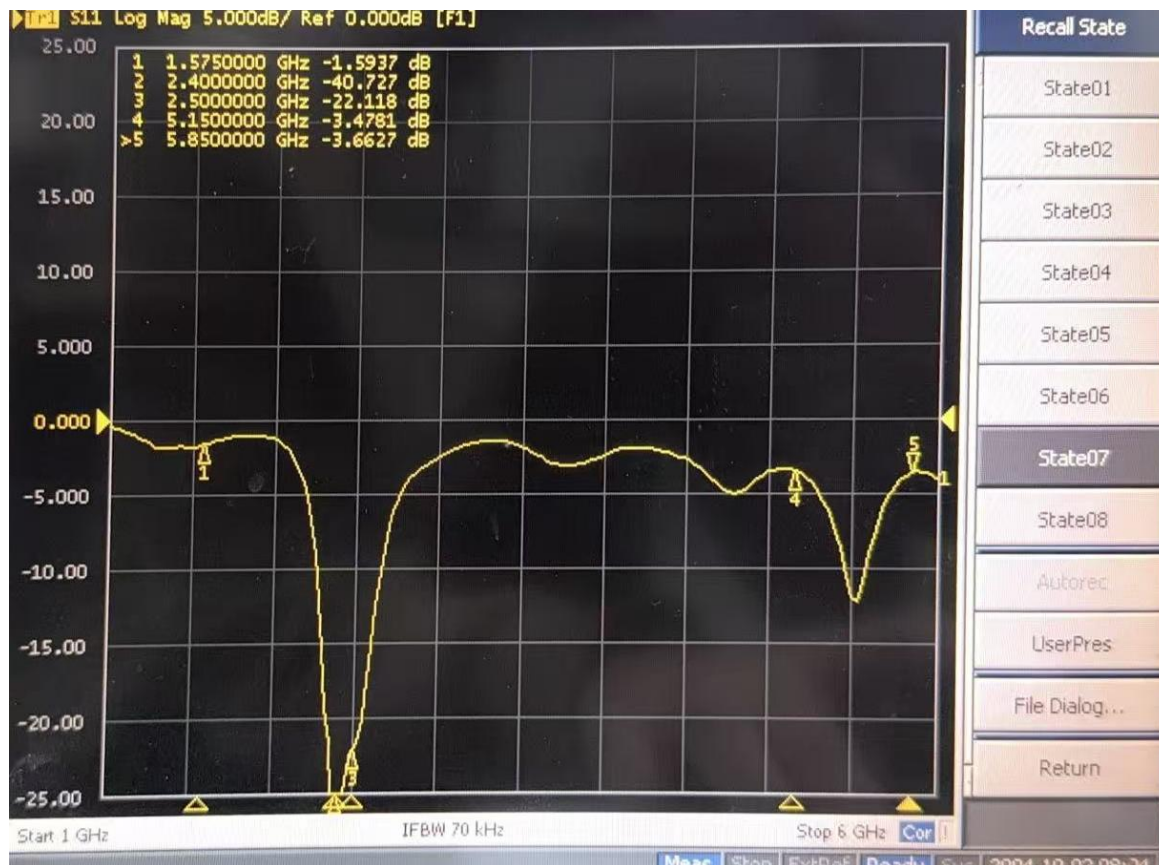
4.1 S11Test Method Description Specification Standards

VSWR The testing devices are sequentially connected as follows :
E5071B Network analyzer → 50Ω Coaxial line → 120mm Copper tube → Test fixture。

Treatment of testing fixture: Use a hard cable to lead out the SMA-J connector from the 50 ohm test point of the antenna on the mobile phone PCB, connect it to a copper pipe with a choke ring, and then connect other devices in sequence.



4.2 S11



Address: West Tower 403, Building2 Minqi Science Park (Ganghongji Building), University Town, X
Nanshan District, Shenzhen
TEL: 0755-88602767
FAX: 0755-8279388

4.Power and Sensitivity Test

3. 1Test Data

Model: 2.4G/5.8G-WIFI			
2.4G	11B(11M)		
	CH1	CH6	CH11
TRP	12.13	12.24	12.41
TIS	-80.52	-80.77	-80.32

5.8G	11A(54M)		
	CH36	CH60	CH165
TRP	11.62	11.52	11.27
TIS	-72.22	-72.3	-72.54

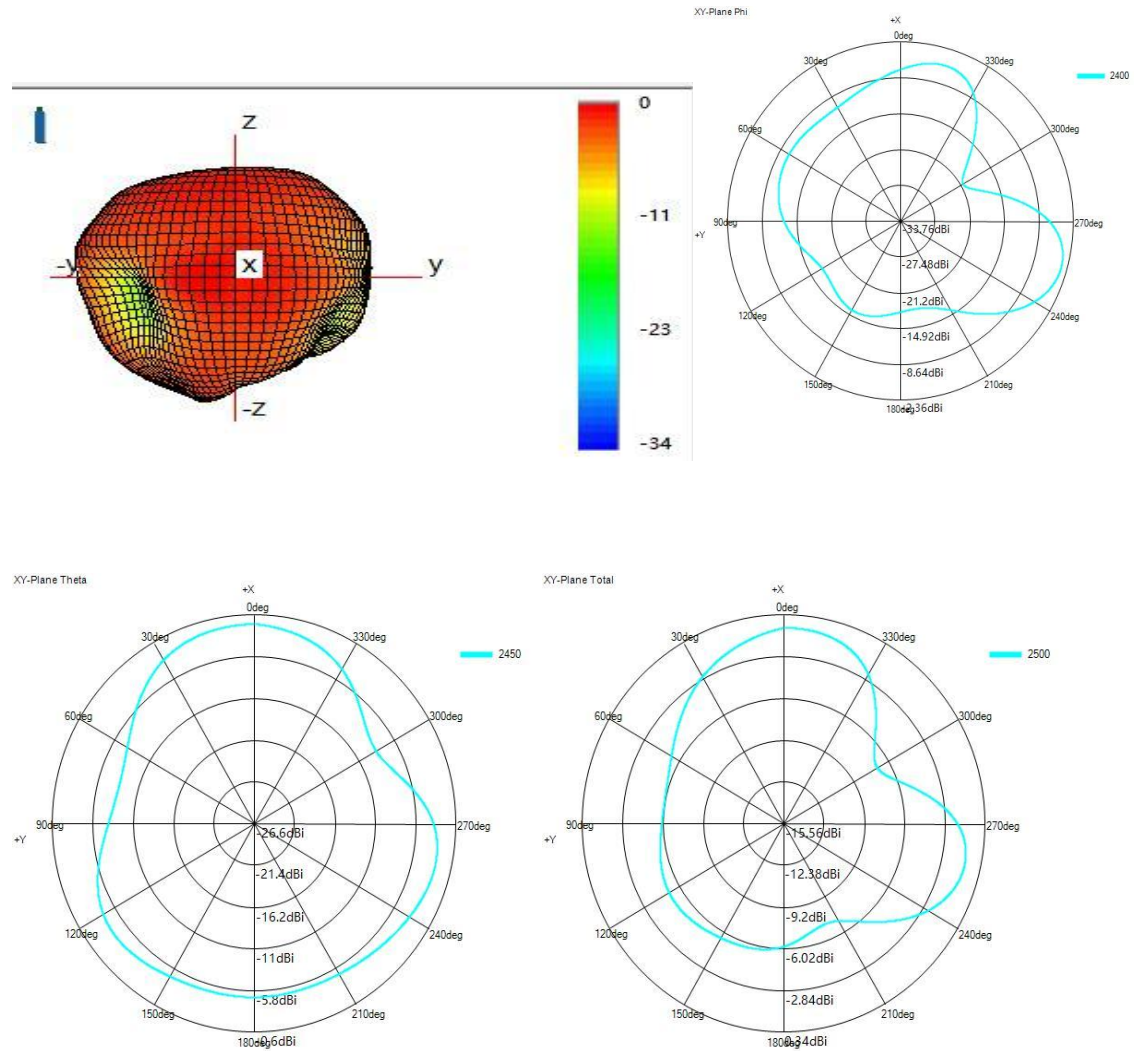
**

5.2 Passive Efficiency

Passive Test For 2400-2500			Passive Test For WIFI5.8		
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	40.67	-0.30	5150	44.78	1.76
2410	41.37	-0.08	5200	45.12	1.81
2420	43.25	0.18	5250	48.35	2.11
2430	42.66	0.17	5300	45.32	2.02
2440	43.55	0.40	5350	51.18	2.67
2450	44.19	0.47	5400	53.93	2.91
2460	44.10	0.49	5450	54.46	2.92
2470	43.30	0.46	5500	49.36	2.48
2480	40.45	0.16	5550	55.80	2.57
2490	38.40	0.14	5600	58.85	2.77
2500	38.91	0.27	5650	56.86	2.44
			5700	56.69	2.07
			5750	54.18	1.67
			5800	54.25	1.45
			5850	53.02	1.11

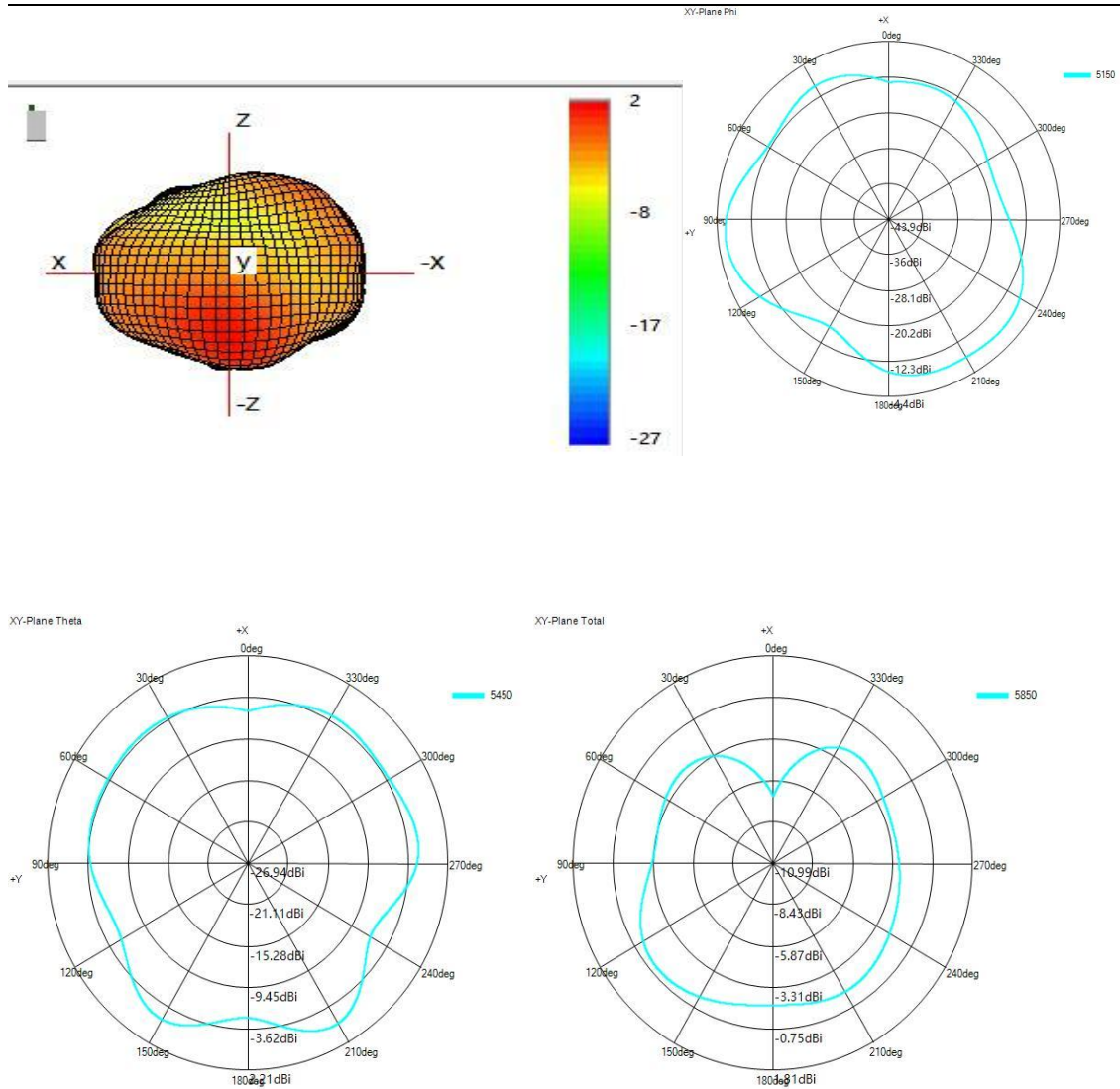
Address: West Tower 403, Building2 Minqi Science Park (Ganghongji Building), University Town, X
Nanshan District, Shenzhen
TEL: 0755-88602767
FAX: 0755-8279388

5. 3D Radiation Pattern (Apple Plot)



Address: West Tower 403, Building2 Minqi Science Park (Ganghongji Building), University Town, X
Nanshan District, Shenzhen
TEL: 0755-88602767
FAX: 0755-8279388

DeshiJin Technology Co., Ltd. - Certificate of Conformity



Address: West Tower 403, Building2 Minqi Science Park (Ganghongji Building), University Town, X
Nanshan District, Shenzhen
TEL: 0755-88602767
FAX: 0755-8279388

6.Mechanical Drawing

