Approval Sheet

(Customer Name） guangsu

(Specification) A1Pro(WIFI/BT antenna)

(Customer P/N)

(O/I)

（Date） 2025-4-21

Frequency band	WiFi/BT 2.4G+5.8G		
version	A		
radio frequency	Chen mushao	confirm	
structure	Yang guojun		
customer confirmation			
Date			

address： Building 2, Private Enterprise Technology Park, Xili University City, Nanshan District, Shenzhen (Hongji Building), West Block 403
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catalogue

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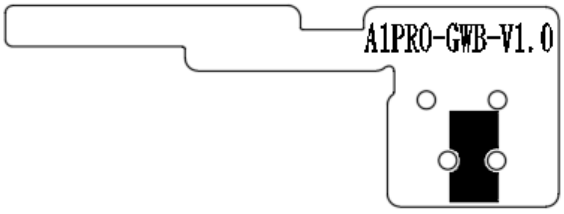
1.Project images (for reference only)

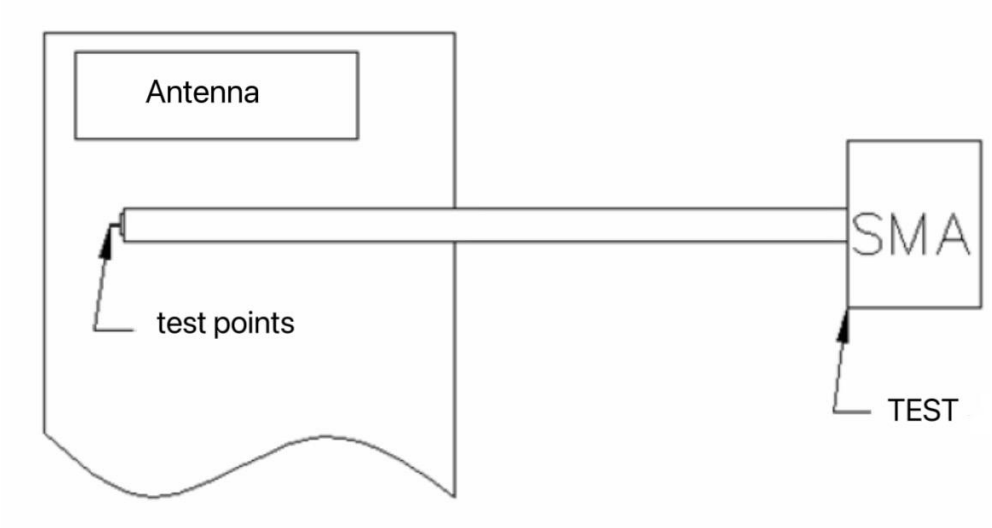


WIFI antenna

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 testing point at the back end (front section of the RF test hole) of the matching circuit on the mobile phone motherboard, and the other end connected to the SMA connector. As shown in the following figure:



The following table shows the performance test indicators for the A1Pro

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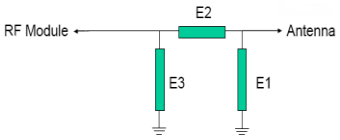
frequency production antenna::

A1Pro antenna				
	frequency (MHz)	VSWR	frequency (MHz)	VSWR
Frequency band	Transmitting end		receiving end	
2.4G WIFI	2400-2550	≤3.0	2400-2550	≤3.0
5.8G WIFI	5150-5850	≤3.0	5150-5850	≤3.0

3. matching circuit

main (Match without changes)

Element	Matching Value
E1(0201)	
E2(0201)	0
E3(0201)	



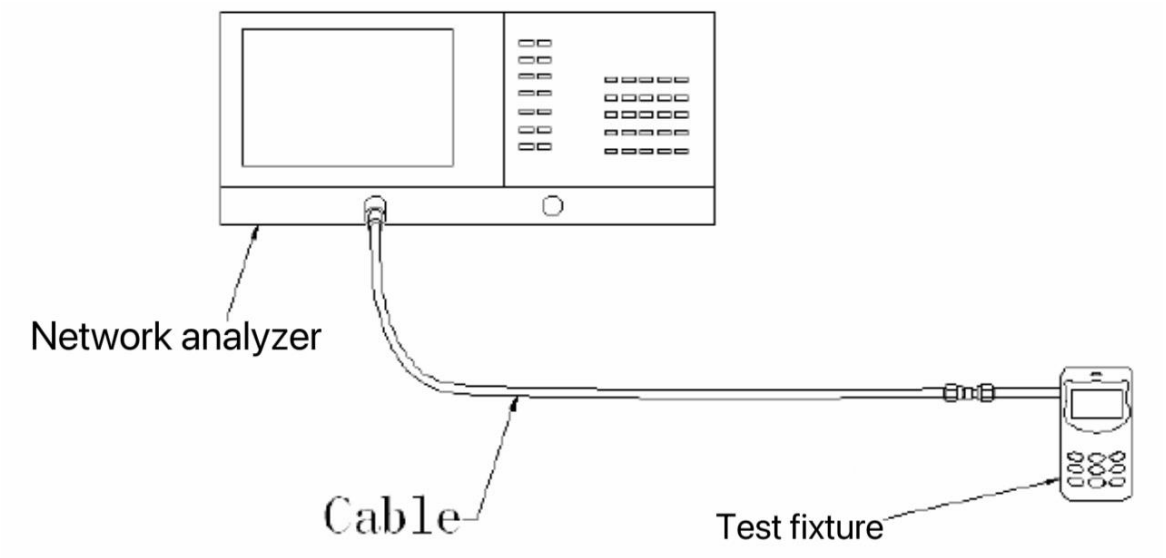
4. S11 test

4.1 S11 Test Method Description Specification Standards

VSWR The connection of the testing device in sequence is : HDS10K753ESnetwork analyzer → 50Ohm's coaxial Cable → 120mmLong copper tube →Test fixture。

Handling of testing fixtures: From the phone PCB on-chip antenna 50Use a hard cable to lead out the SMA-J connector at the 0hm test point, Connect the copper tube with a choke coil, and then connect other devices in sequence。

Test schematic diagram



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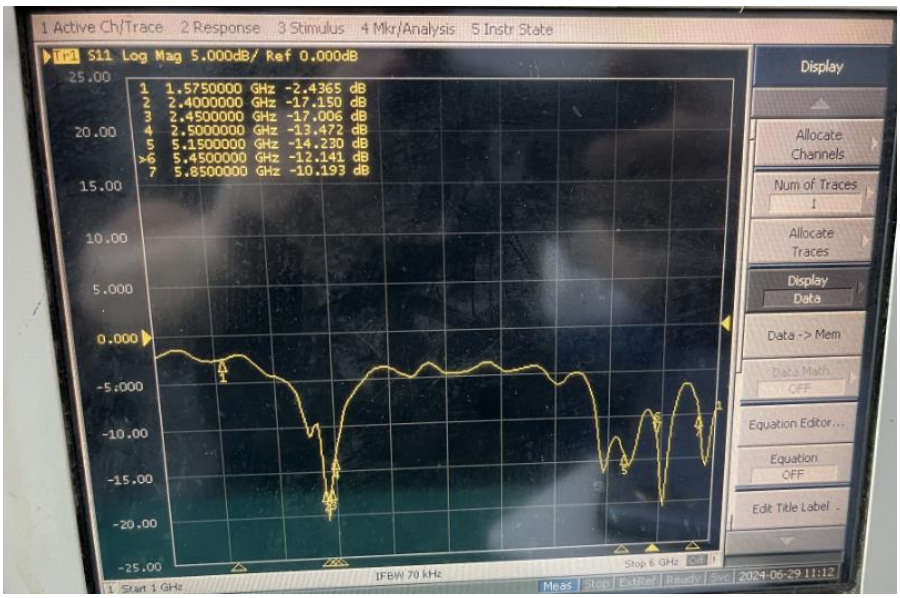
4.2 S11

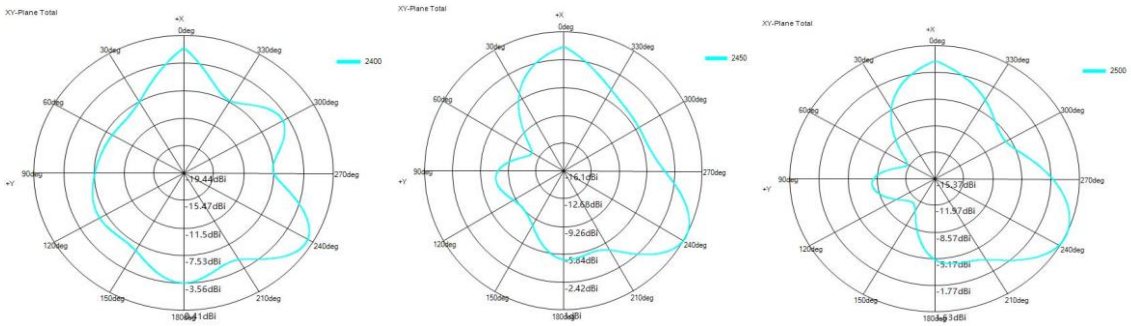


5.Passive efficiency gain

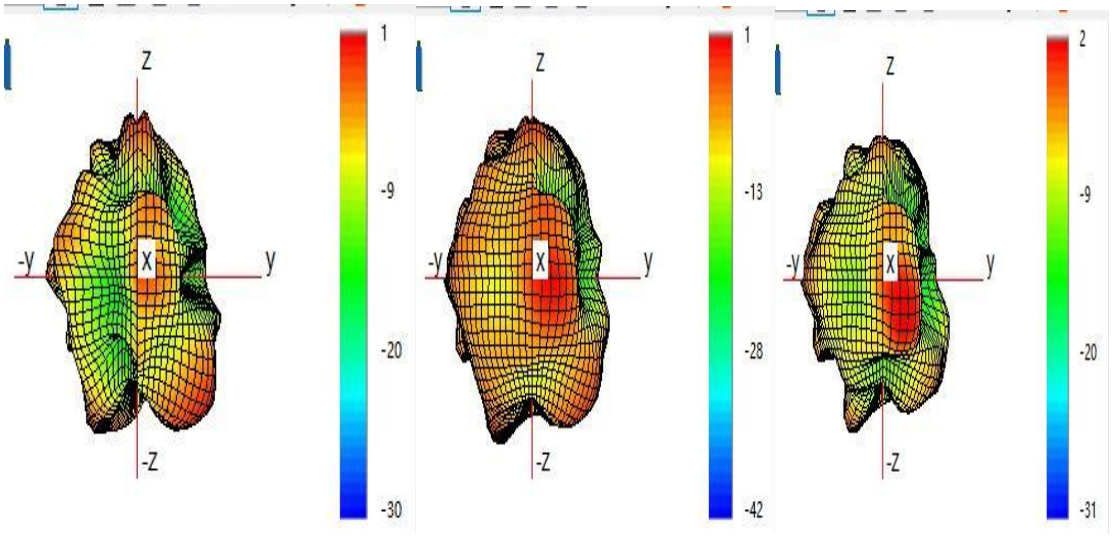
2.4G

Freq(MHz)	Gain(dBi)	Efficiency(%)
2400	**-1.93**	**25.13**
2420	**-1.38**	**26.58**
2440	**-1.13**	**27.93**
2460	**-1.24**	**27.52**
2480	**-1.32**	**27.15**
2500	**-1.41**	**26.39**

2Dphi



3Dphi

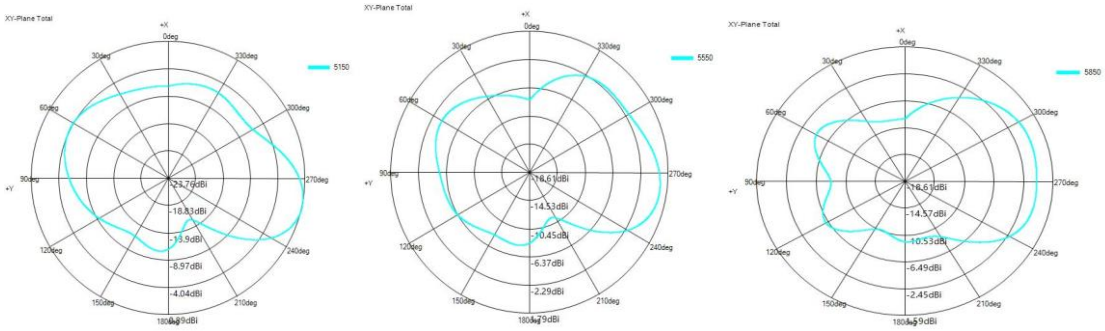


2400MHz 2450MHz 2500MHz

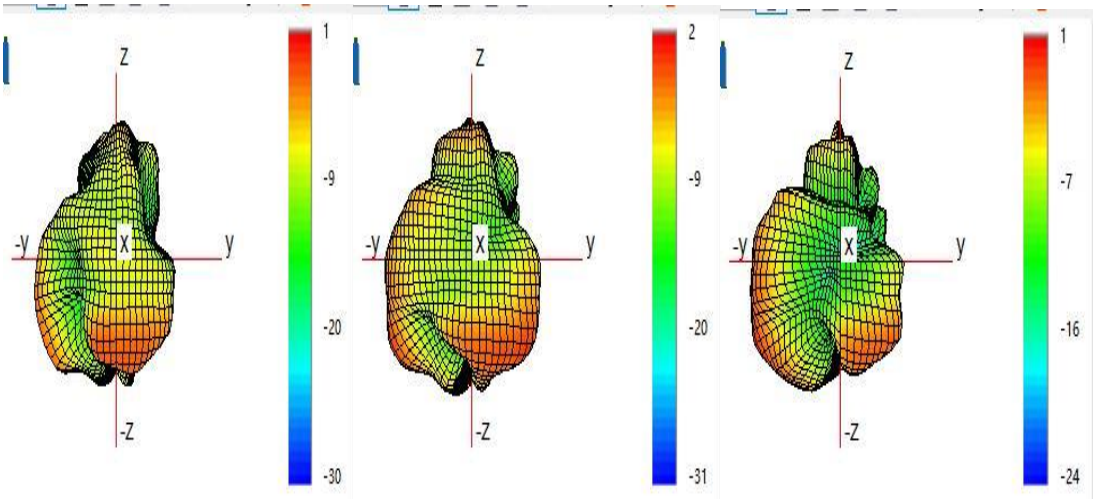
5.8G

Freq(MHz)	Gain(dBi)	Efficiency(%)
5150	32.22	-0.63
5250	33.42	-0.48
5350	33.74	-0.41
5450	34.99	-0.37
5550	35.62	-0.13
5650	36.79	0.07
5750	38.89	0.26
5850	40.36	0.58

2Dphi



3Dphi



5150MHz **5550MHz** **5850MHz**

6.structural drawings