



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			

catalogue

1.Project images

2.Test fixture

3.matching circuit

4. S11 Test electrical performance

4.1 S11 Test Method Description Specification Standards

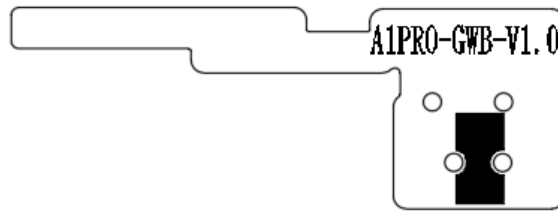
4.2 S11Parameter image

5.Power and sensitivity testing

5.1 test data

6.structural drawings

1.Project images (for reference only)

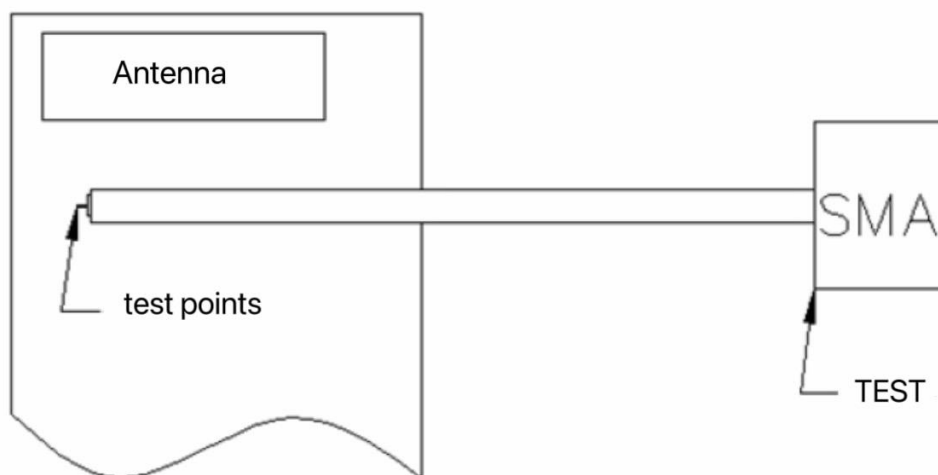


WIFI antenna

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::

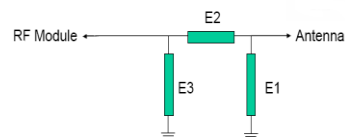
A1Pro antenna					
		frequency (MHz)	VSWR	frequency (MHz)	VSWR
Frequency band	Transmitting end			receiving end	
2.4G WIFI	2400-2550		≤3.0	2400-2550	≤3.0
5.8G WIFI	5150-5850		≤3.0	5150-5850	≤3.0

3. matching circuit

main (Match without

changes)

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



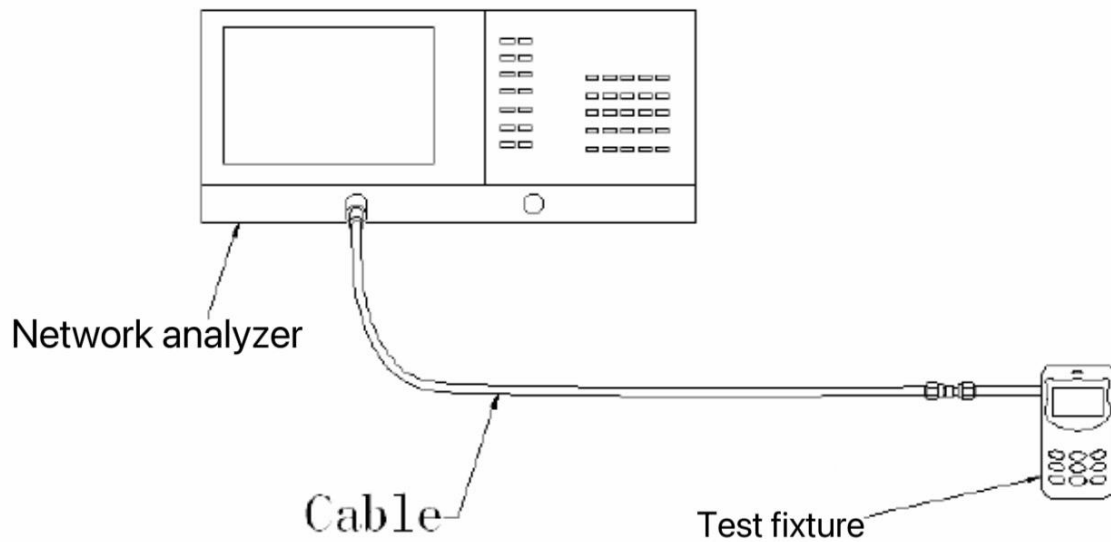
4. S11 test

4.1 S11 Test Method Description Specification Standards

VSWR The connection of the testing device in sequence is : HDS10K753ESnetwork analyzer → 500hm'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 Ohm test point, Connect the copper tube with a choke coil, and then connect other devices in sequence.

Test schematic
diagram



4.2 S11

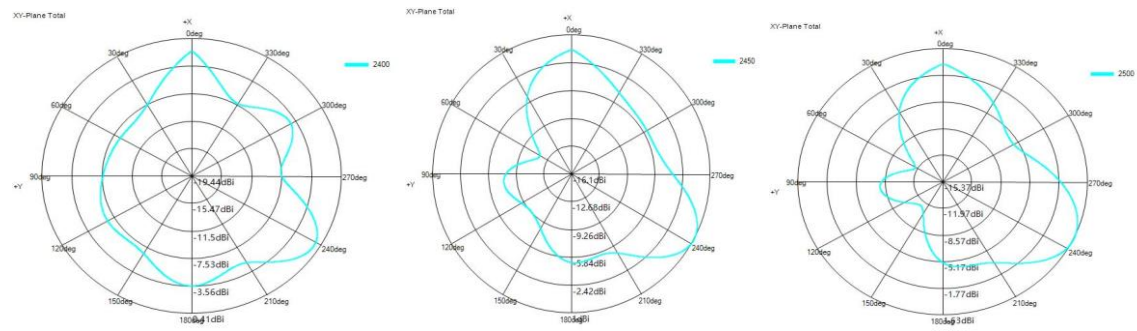


5. Passive efficiency gain

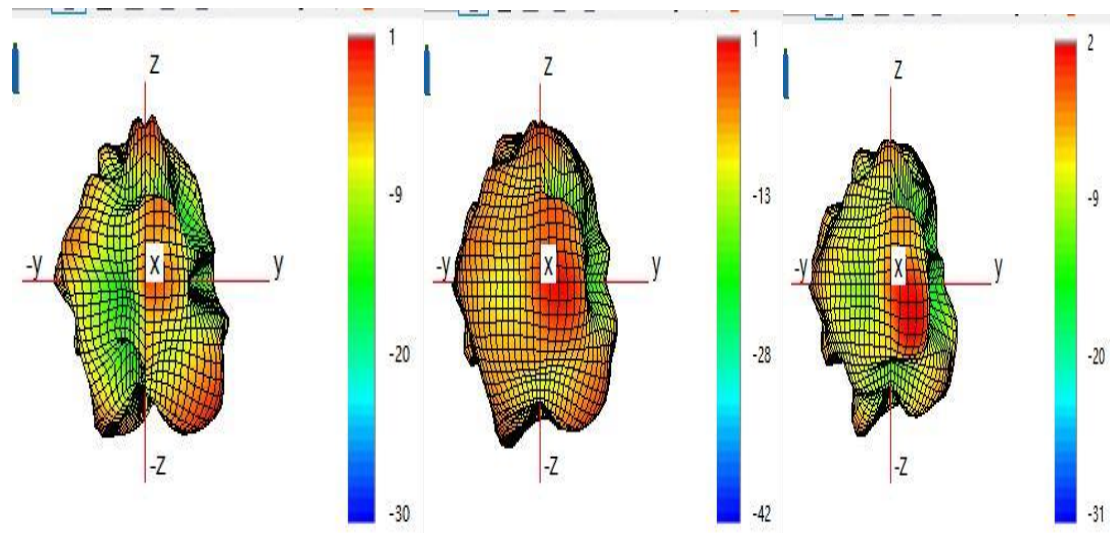
2. 4G

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

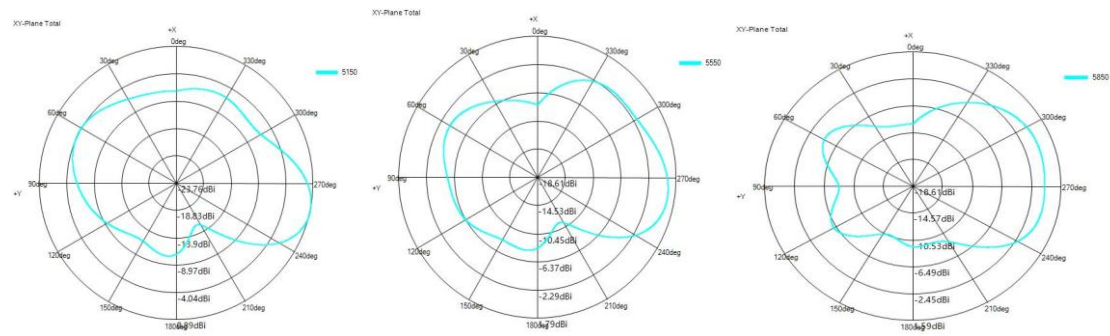
2450MHz

2500MHz

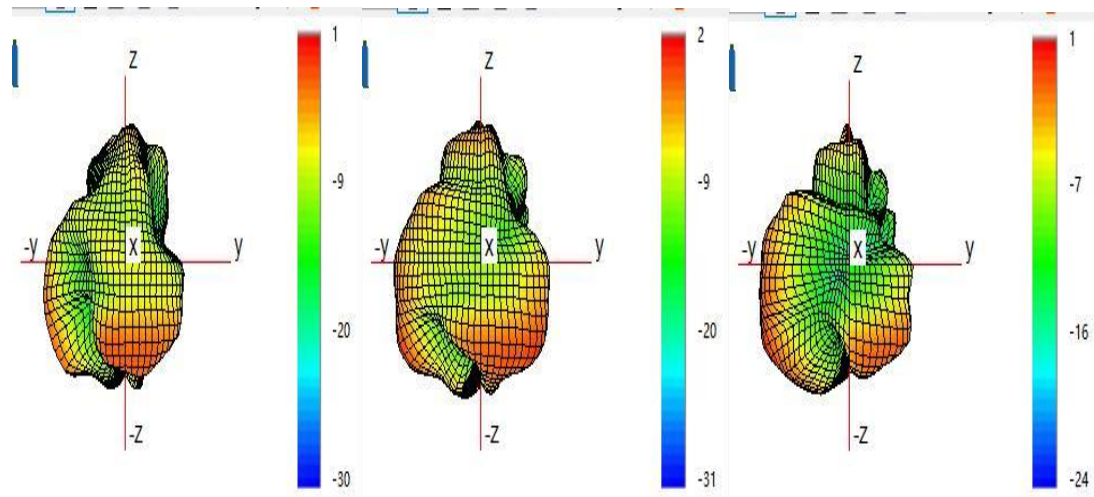
5. 8G

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

1	2	3	4	5	6	7	8																		
Item number	Colour	Color number	Supplier color code																						
21.55 7.78 7.78 Black characters Breaking line of release paper																									
Note: 1. "x" is the key size, and the hole position is subject to adaptation; 2. FPC material: electro ytic copper, half and half; 3. Reverse adhesive (3M300LSE); 4. The tolerance size is not marked, and the tolerance for mold punching size is ± 0.13, and the tolerance for coupon foil line size is ± 0.05; The tolerance of the marked hole is ± 0.08; 5. The solid part is nickel plated, the area with diagonal lines on the surface is the copper foil area, and the area with intersecting lines is the adhesive backing area; 6. Surface ink black matte finish; 7. Pb, Hg, Cr+6, P/BSS, and PBBs are all less than 500PPM, Cd is less than 50PPM.																									
				Deshiqin Technology Co.,Ltd <table border="1"> <tr> <td>Model</td> <td>11P80-H6</td> <td>date</td> <td>2025-1-21</td> <td>page number</td> <td>1 / 1</td> </tr> <tr> <td>part name</td> <td>Three in one antenna</td> <td>RF design</td> <td>Chen mushao</td> <td></td> <td></td> </tr> <tr> <td>material</td> <td>P1</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>				Model	11P80-H6	date	2025-1-21	page number	1 / 1	part name	Three in one antenna	RF design	Chen mushao			material	P1				
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date	REVISION	Version	Notes	Drawing save path: FIT T:A																					