



Approval Sheet

客户名称 奥美佳

(Customer Name)

产品名称 NexCam-1

(Specification)

客户料号 _____

(Customer P/N)

产品料号 _____

(O/I)

送样日期 2025-12-3

(Date)

Frequency band	2. 4+5. 8G/WiFi		
Version	A		
RF	Wang zhibin	Confirm	
Structural Engineer	Yang guozhong		
Customer confirmation			
Date			

Catalogue

1. Project image

2. Test fixture

3. Matching circuit

4. S11 Test electrical performance

4.1 S11 Test Method Description Specification Standards

4.2 S11 Parameter image

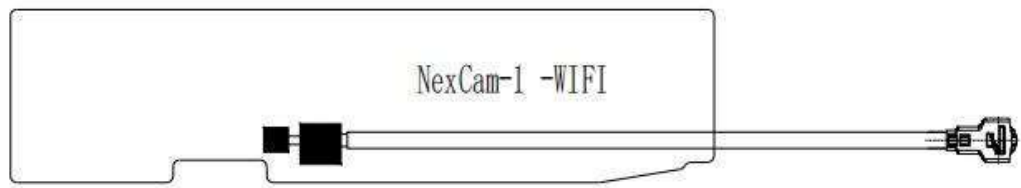
5. Power and sensitivity testing

5.1 Test data

5.2 Passive efficiency parameters

6. Structural drawings

1. Project image (for reference only)

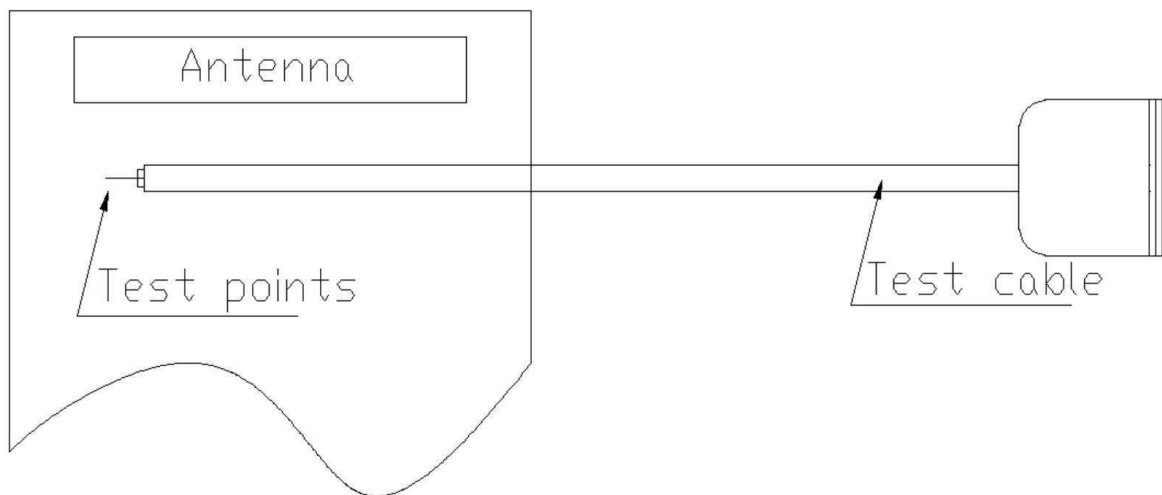


WIFI Antenna

2. Passive Test

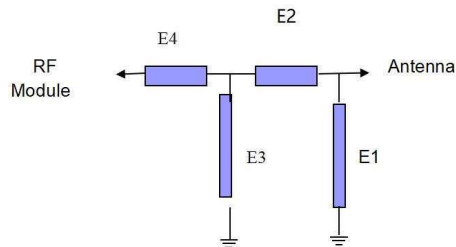
Purpose: To test the passive parameters of the antenna as accurately as possible.

Method: This fixture uses a 50 ohm coaxial cable, with one end connected to the 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:



The following table shows the performance test indicators for A100 mass-produced antennas:

3. Matching circuit

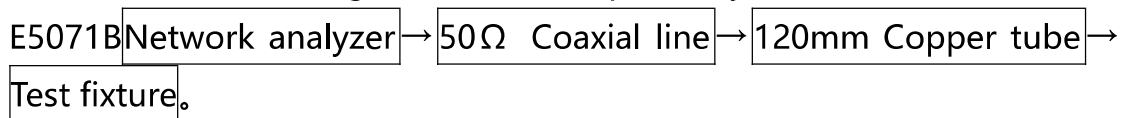


Element	Matching Value
E1(0201)	
E2(0201)	
E3(0201)	
E4(0201)	

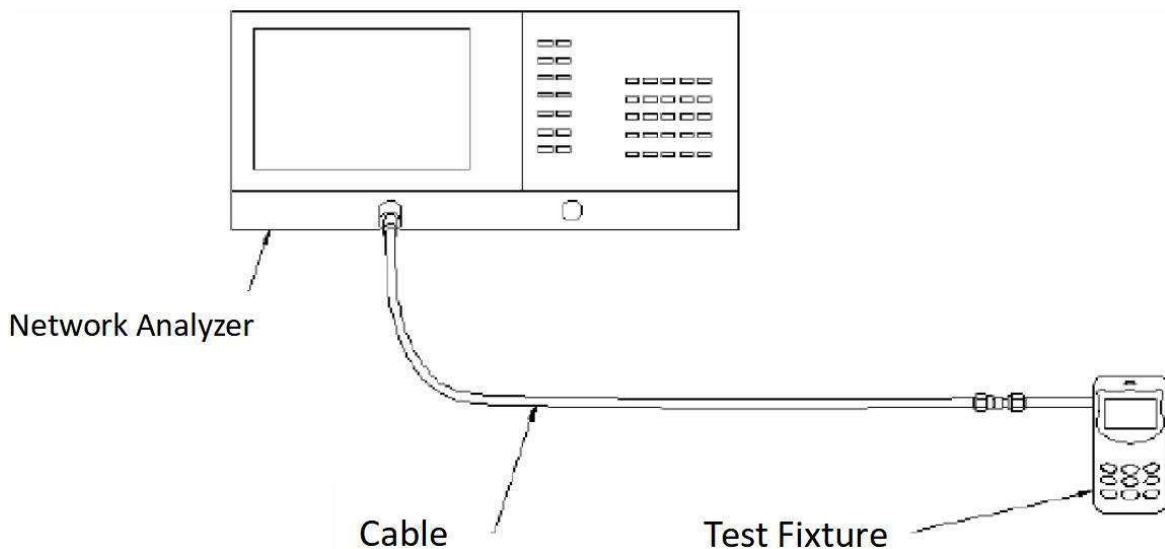
4. S11Test

4.1 S11Test Method Description Specification Standards

VSWR The testing devices are sequentially connected as follows:



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.



Test diagram

5. Power and sensitivity testing

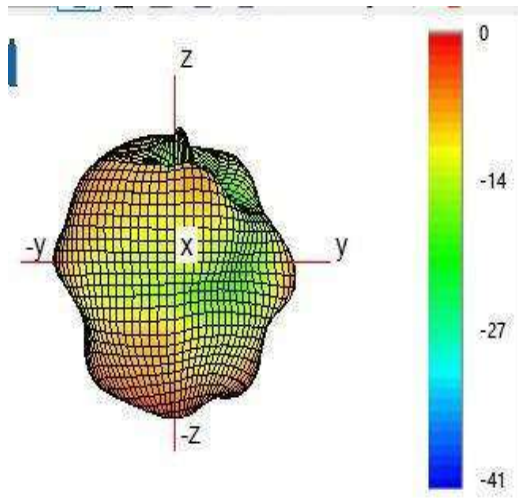
5.1 Test data

BAND	CHANNEL	TRP	TIS	CHANNEL	TRP	TIS
WIFI B	1	12.27	-81.35			
	6	12.8	-82.25			
	11	12.25	-82.01			
BAND	CHANNEL	TRP	TIS	CHANNEL	TRP	TIS
WIFI B	36	13.27	-73.01			
	60	14.25	-73.35			
	165	13.87	-72.56			

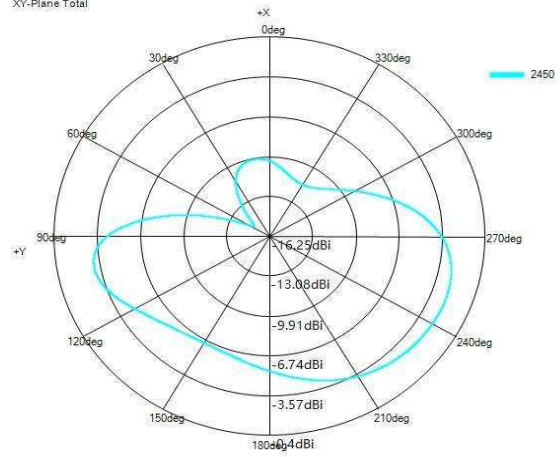
5.2 Passive efficiency parameters

Passive Test For 2.4G			
Freq (MHz)	Gain (dBi)	Effi (dB)	Effi (%)
2400	-2.46	-5.89	25.73
2410	-2.55	-5.87	25.83
2420	-2.24	-5.59	27.58
2430	-2.23	-5.58	27.60
2440	-2.24	-5.58	27.65
2450	-2.11	-5.42	28.69
2460	-1.98	-5.29	29.51
2470	-1.94	-5.32	29.32
2480	-2.09	-5.39	28.84
2490	-2.15	-5.51	28.05
2500	-2.06	-5.47	28.35

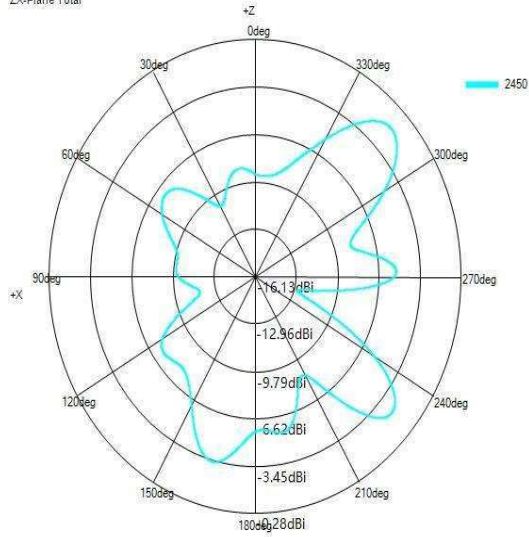
2450MHz



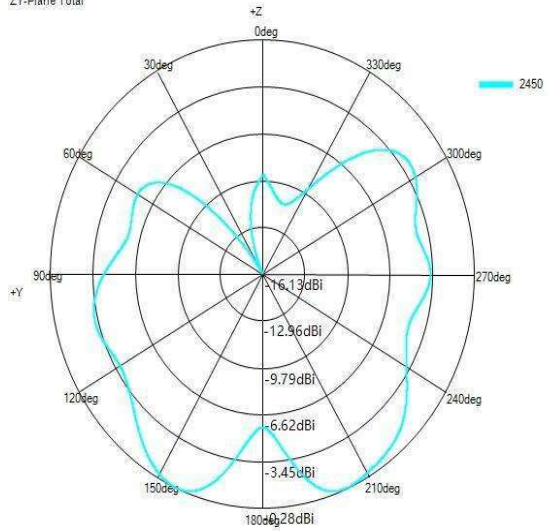
XY-Plane Total



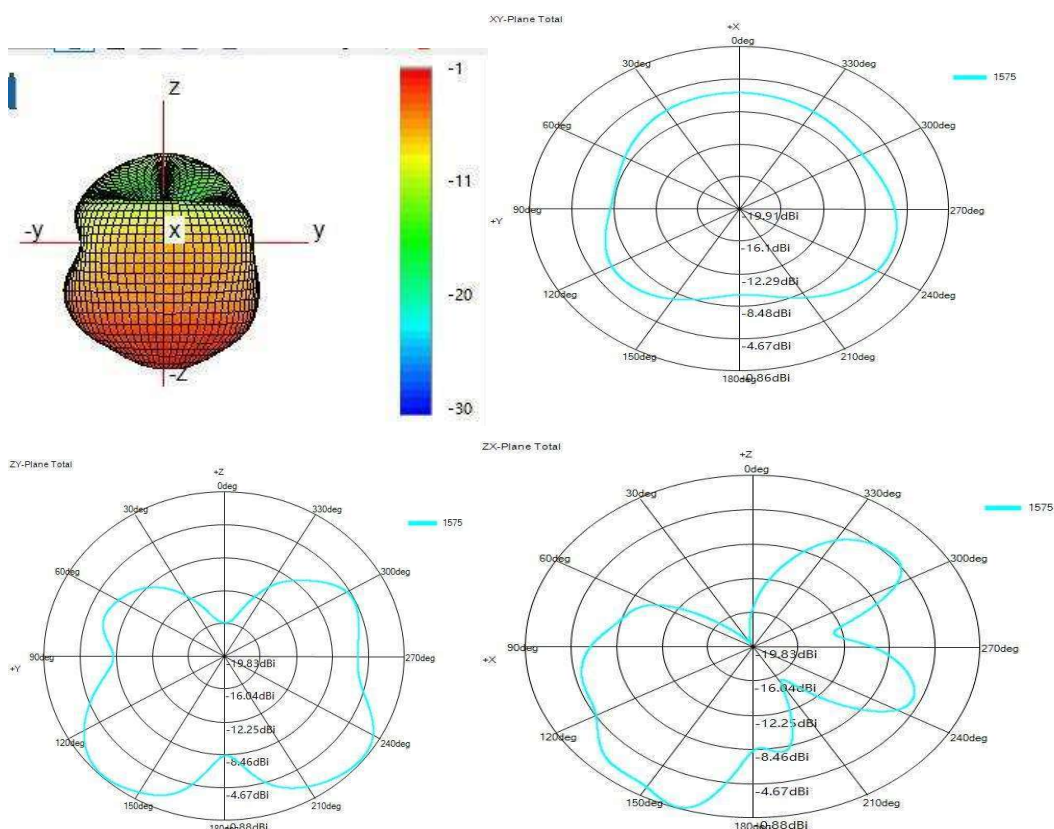
ZX-Plane Total

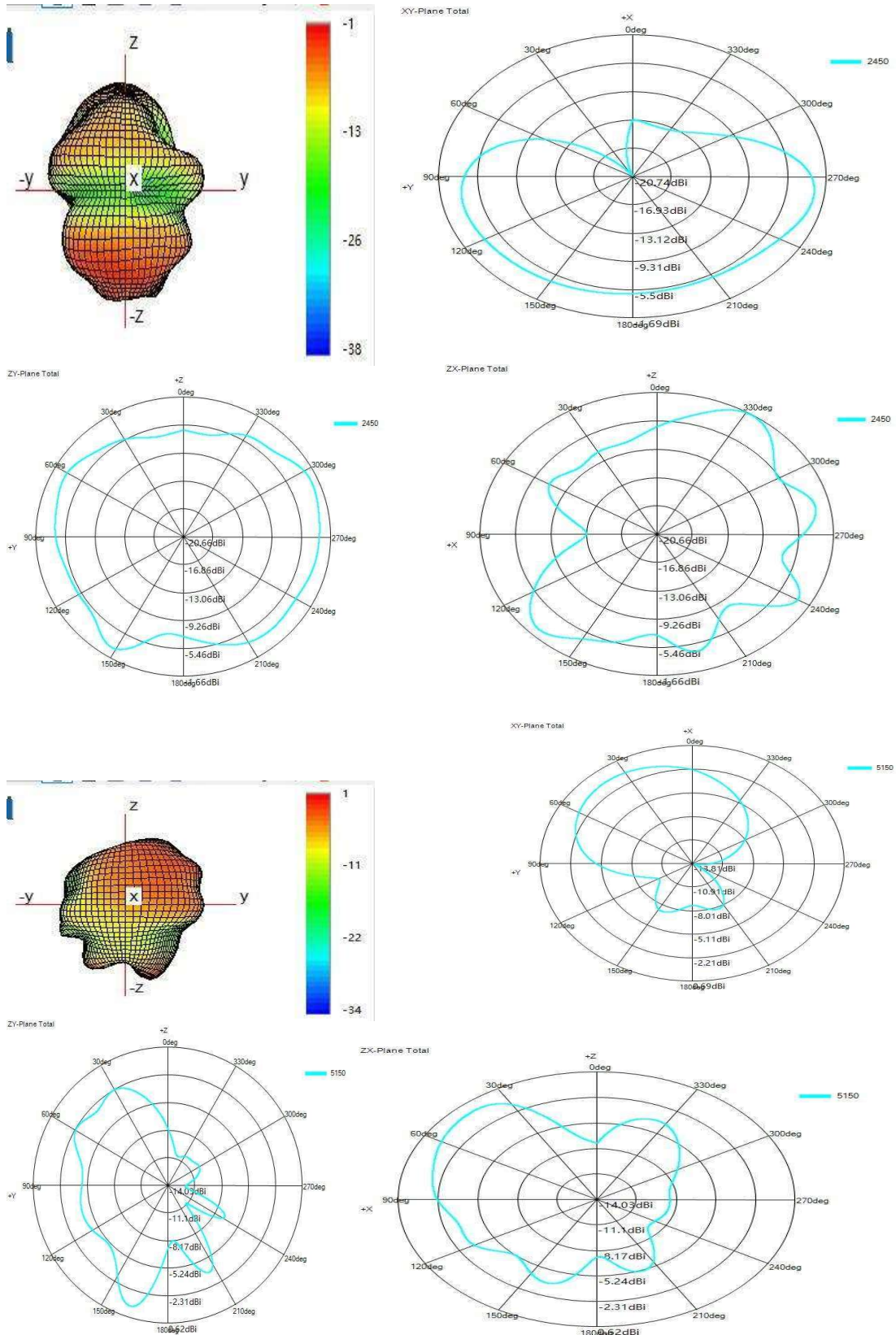


ZY-Plane Total



Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5150	0.60	-4.84	32.83
5200	1.67	-3.82	41.46
5250	1.59	-3.89	40.84
5300	0.10	-5.41	28.79
5350	0.15	-5.41	28.76
5400	1.59	-4.11	38.84
5450	0.26	-5.17	30.38
5500	-1.50	-6.67	21.54
5550	-1.79	-6.24	23.79
5600	-1.08	-5.15	30.54
5650	-1.70	-5.45	28.48
5700	-2.67	-6.02	24.98
5750	-1.59	-4.96	31.95
5800	-1.07	-4.70	33.85
5850	-2.48	-6.09	24.61





6. Structural drawings

