

专业天线服务商

深圳市飞敏科技有限公司
SHENZHEN FEIMIN TECHNOLOGY CO.,LTD.



天线测试报告

Antenna test report

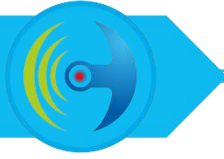
项目型号 301

天线型号

测 试 潘雄威

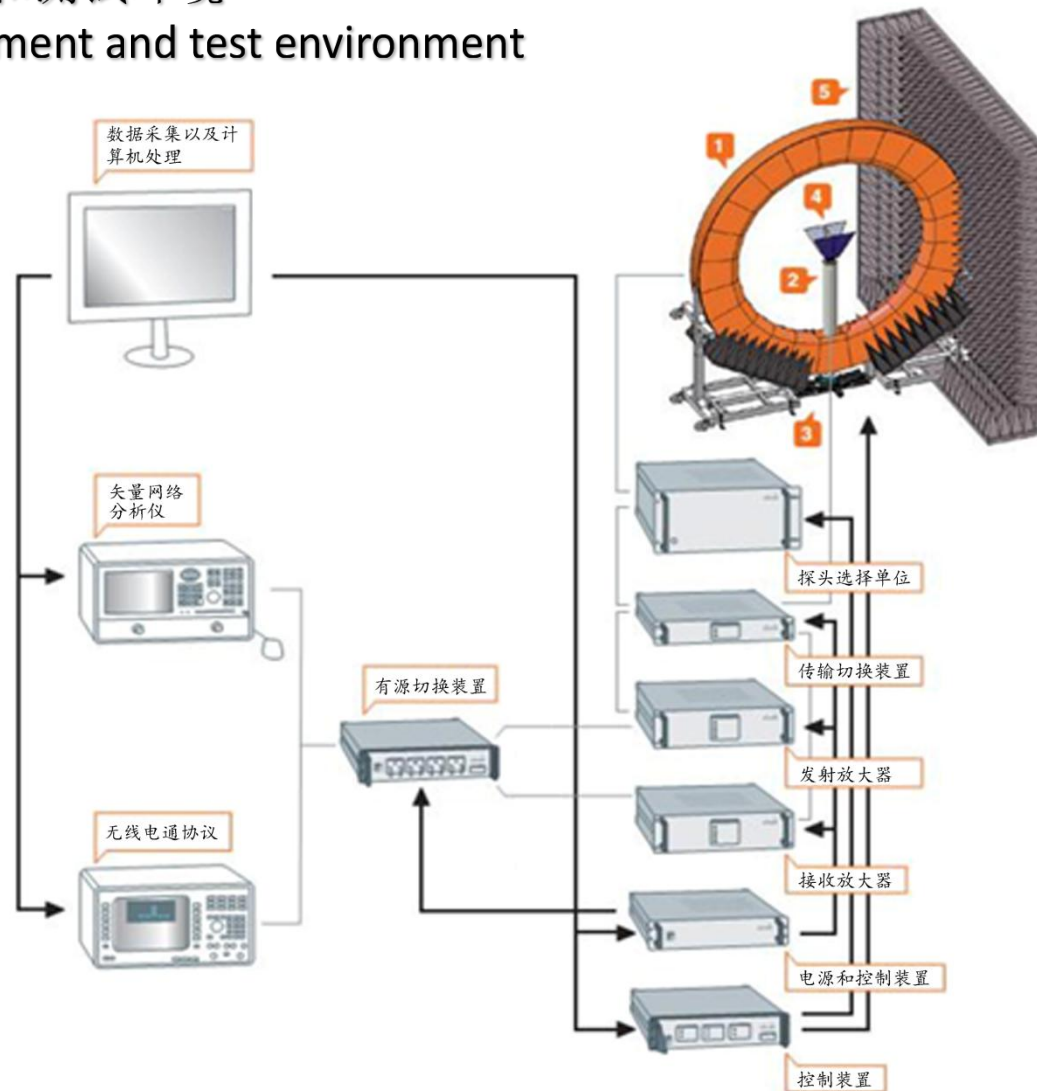
审 核

日 期 2026-8-17



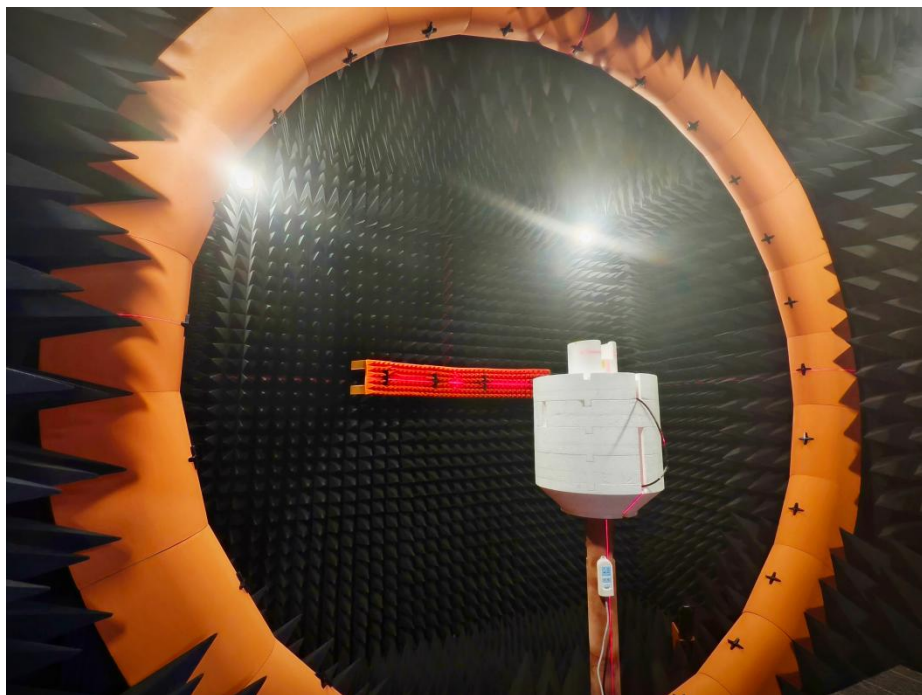
测试设备和测试环境

Test equipment and test environment





测试设备 Test equipment



探头微波暗室
Probe microwave anechoic chamber
➤ 频率：0.4GHz至12GHz
Frequency Range : 0.4GHz-12GHz

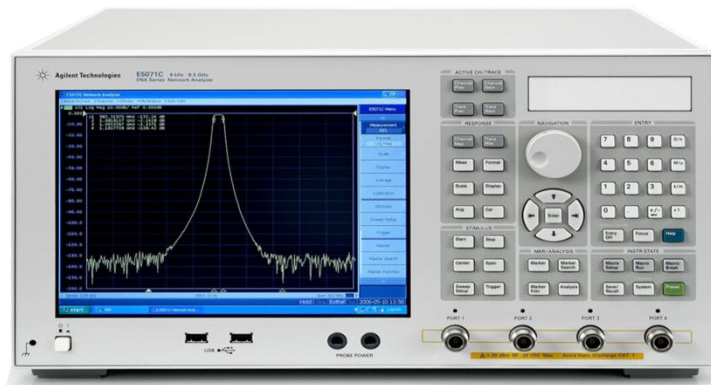
主要测试指标 Main test indicators

- ◆ 无源指标
Passive indicators
- ◆ 增益
Gain
- ◆ 效率
Effectiveness
- ◆ 3D方向图
3D pattern

- 有源指标
Active indicator
- TRP总辐射功率
TRP total radiated power
- TIS总接收灵敏度
TIS total receiving sensitivity



测试设备 Test equipment



Agilent E5071C矢量网络分析仪

- 频率：300 kHz至8.5GHz



R&S CMW500 宽带无线通信测试仪

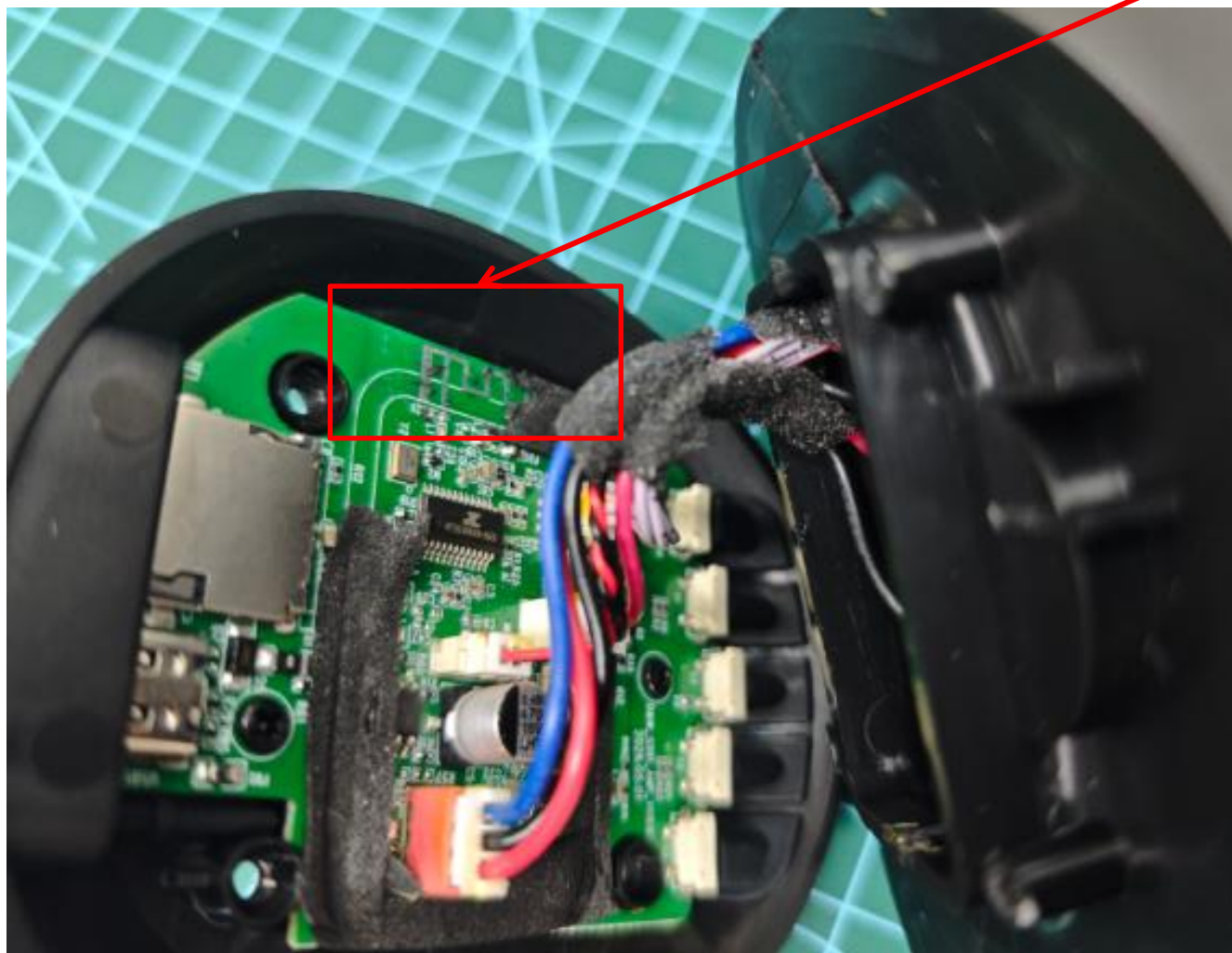
- GSM/3G/4G
- WIFI/ Bluetooth
- NB-IoT



天线安装位置

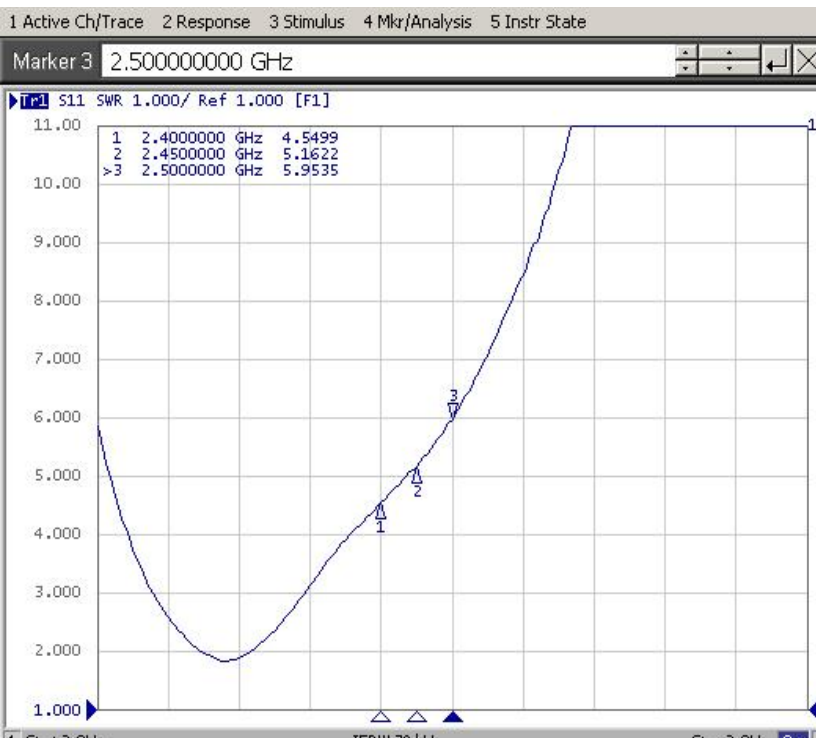
Passive antenna data

天线装配位置及方式



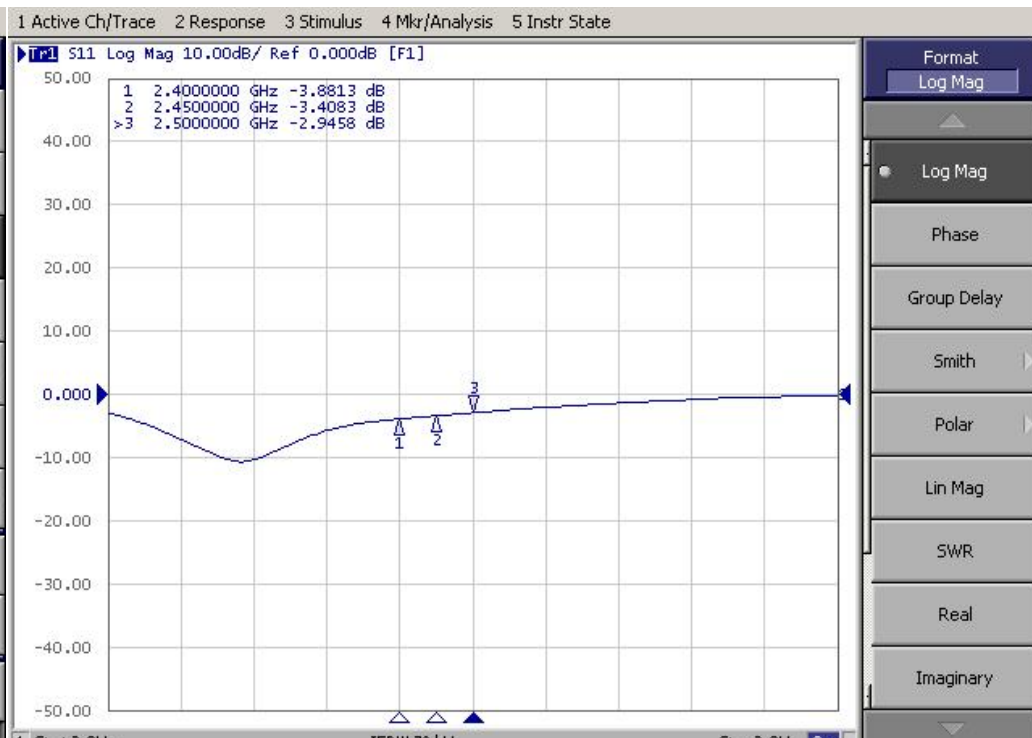


天线驻波比 Antenna SWR



- Marker
- ✓ Marker 1
- ✓ Marker 2
- ✓ Marker 3
- Marker 4
- More Markers ▶
- Ref Marker
- Clear Marker Menu ▶
- Marker -> Ref Marker
- Ref Marker Mode OFF
- Return

天线回波损耗 Antenna Return loss



- Format Log Mag
- Log Mag
- Phase
- Group Delay
- Smith ▶
- Polar ▶
- Lin Mag
- SWR
- Real
- Imaginary



天线增益与效率
Antenna gain and efficiency

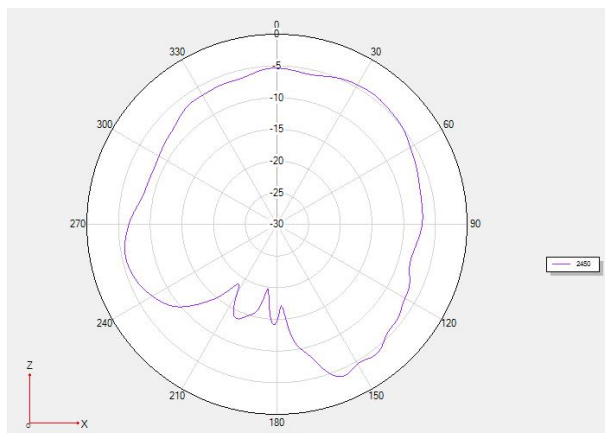
Freq(MHz)	Efficiency (%)	Gain(dBi)
2400	30.2	-1.92
2410	29.17	-2.23
2420	27.61	-2.5
2430	26.61	-2.16
2440	26.42	-1.87
2450	24.6	-1.96
2460	23.39	-2.24
2470	22.54	-2.6
2480	21.23	-2.89
2490	19.5	-3.12
2500	18.24	-3.22



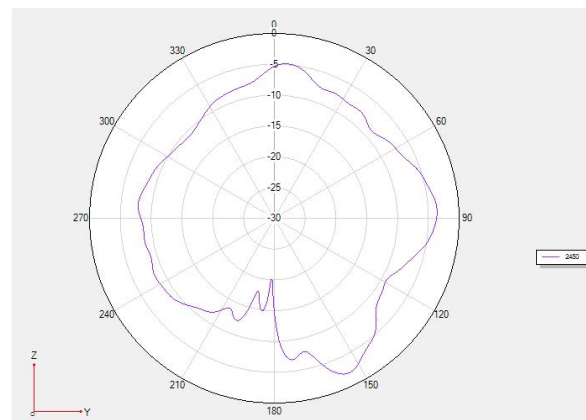
天线辐射方向图

Antenna Radiation Pattern

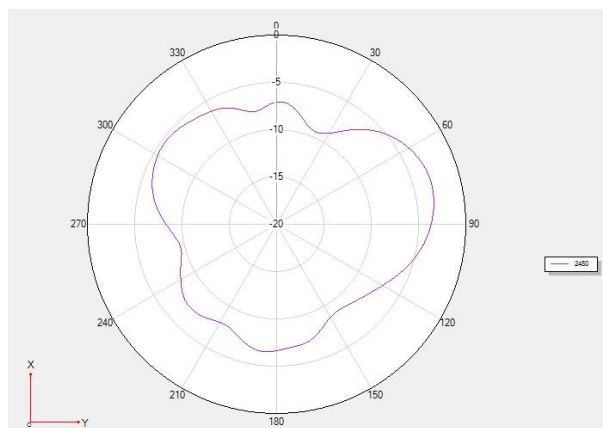
Phi 0 2D



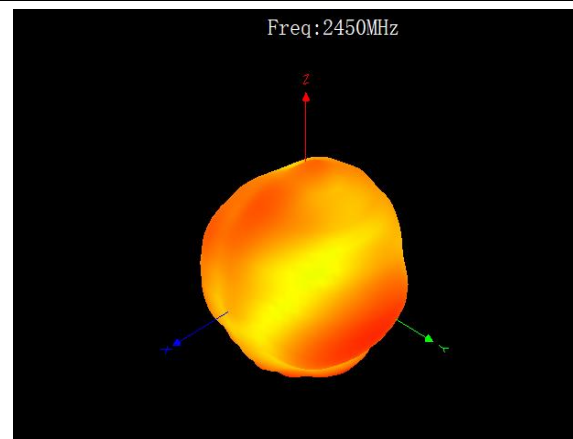
Phi 90 2D



Theta 90 2D



2450Mhz 3D



Thanks for your support!
感谢您的支持!

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