

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
Project model

VF16

客户名称
CustomerName

北京纽曼凤凰科技有限公司
Beijing Newman Phoenix Technology Co., Ltd.

测试工程师
Test Engineer

许高富 Gaofu Xu

审核工程师
Audit Engineer

杨权生Quan-sheng Yang

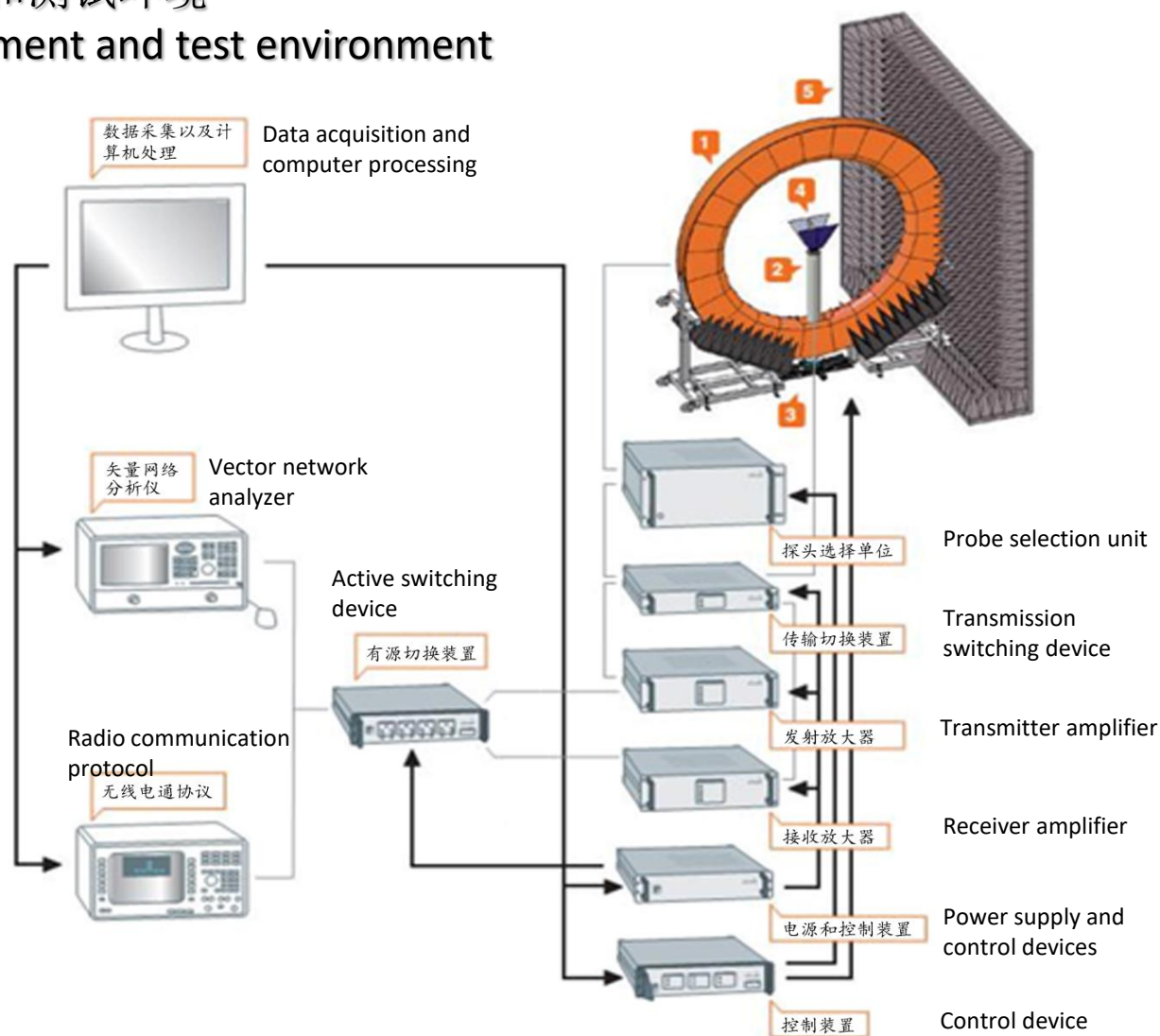
日期
date

2025-4-11



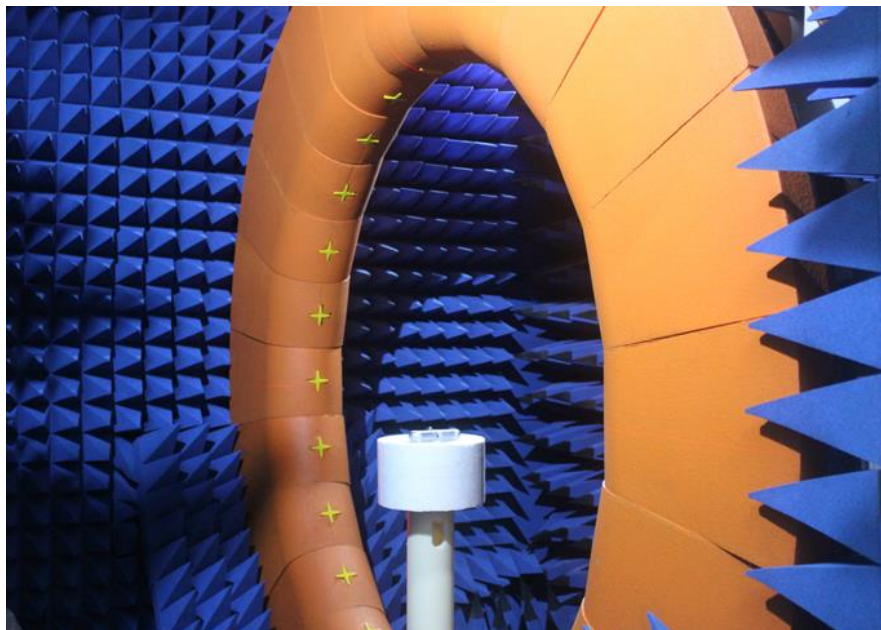
测试设备和测试环境

Test equipment and test environment





测试设备 Test equipment



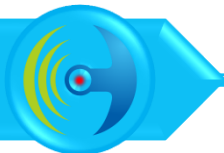
探头微波暗室 Probe microwave dark room

➤ 频率 Frequency : 0.4GHz~6GHz

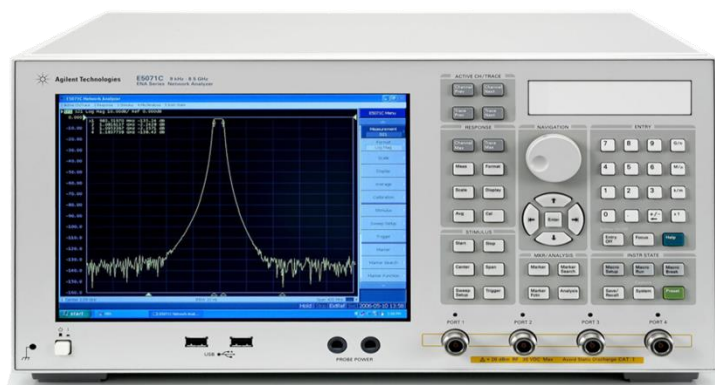
主要测试指标

Main test indicators

- ◆ 无源指标 Passive indicators
 - ◆ 增益 gain
 - ◆ 效率 efficiency
 - ◆ 3D方向图 3D direction map
- 有源指标 Active indicators
 - TRP总辐射功率 TRP total radiated power
 - TIS总接收灵敏度 Total reception sensitivity of TIS



测试设备 Test equipment



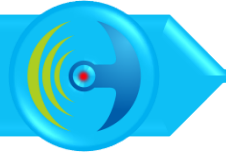
Agilent E5071C矢量网络分析仪
Vector network analyzer

- 频率Frequency : 300 kHz~8.5GHz



R&S CMW500 宽带无线通信测试仪
Broadband wireless communication tester

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



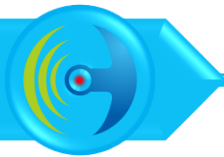
样机照片
DUT Photo



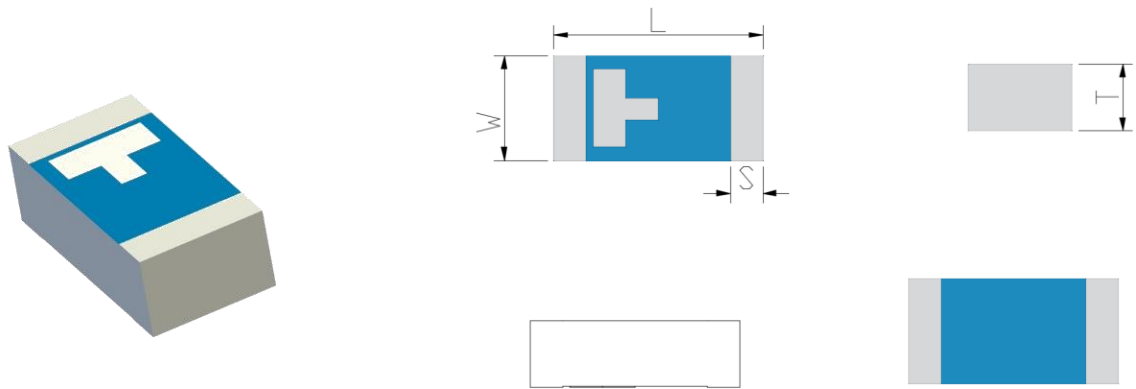


天线参数 Antenna parameters

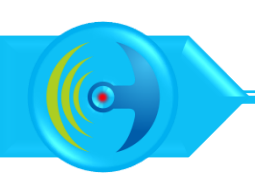
Design Specifications	Typical	Units
天线类型Antenna Type	芯片天线	
工作频率Frequency of work	2400-2500	MHz
天线效率Antenna efficiency	30-37	%
增益Gain	1.8	DBi
天线尺寸Antenna size	3.2*1.6*1.0	mm
辐射方向Radiation direction	360°	
馈电阻抗Impedance	50	Ohm
重量Weight	无要求No requirements	
工作温度Operatin Temp	-30-70	°C
储存温度Storing Temp	-30-70	°C



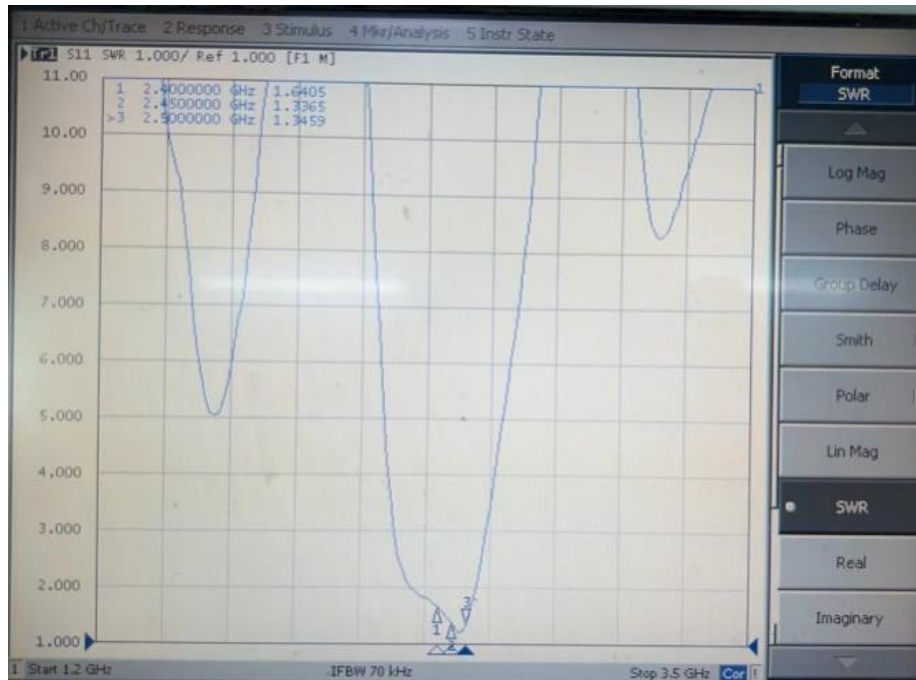
天线尺寸图
Antenna size diagram



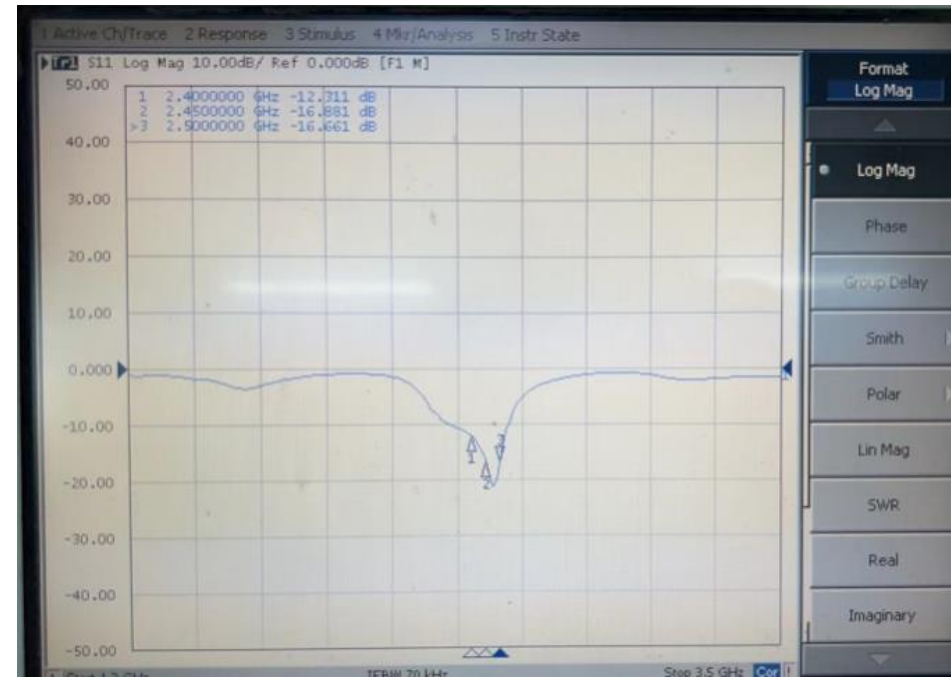
Symbol	Dimension (mm)
L（长度length）	3.2± 0.20
W（宽度width）	1.6± 0.20
T（厚度thickness）	1.0± 0.20
S（电极宽度Electrode width）	0.4± 0.20



天线驻波比
Antenna SWR



天线回波损耗
Antenna Return loss





天线增益与效率

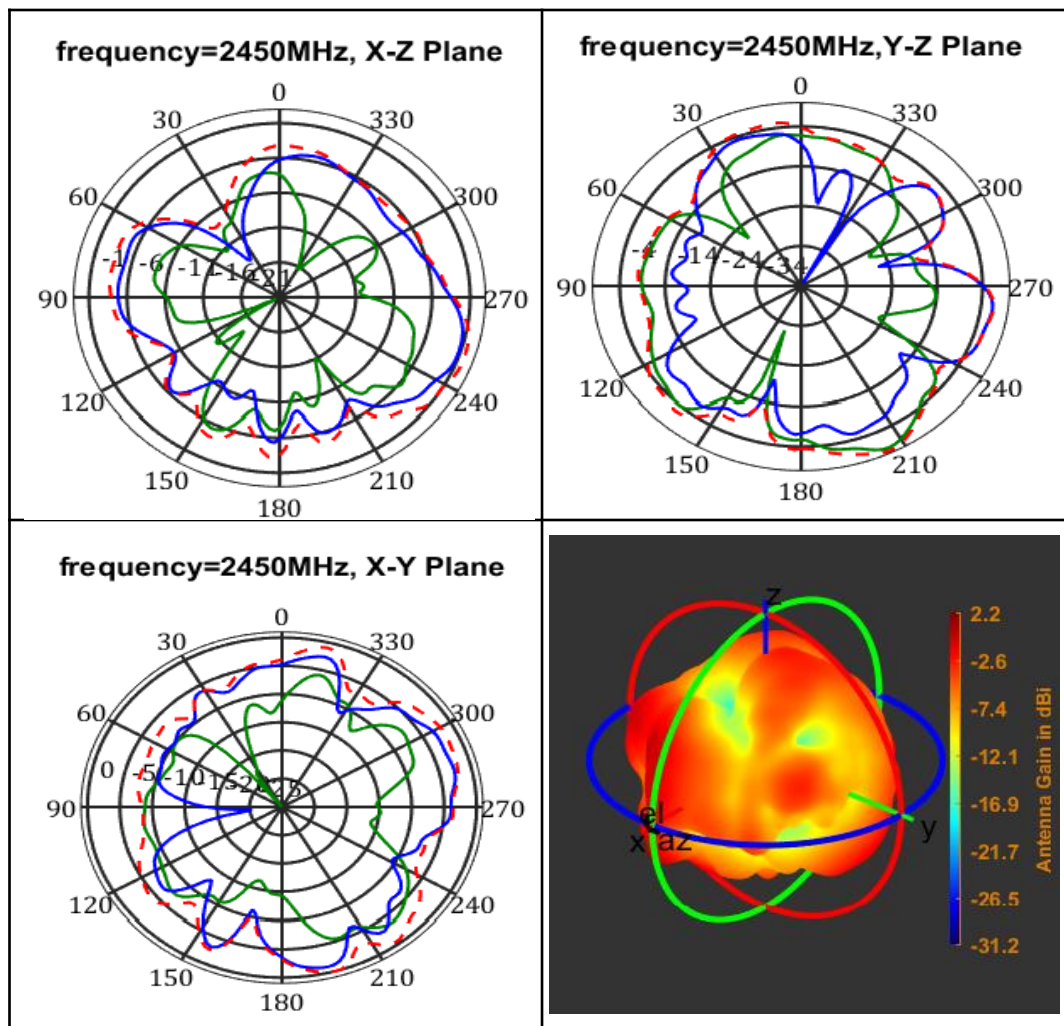
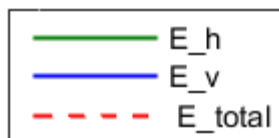
Antenna gain and efficiency

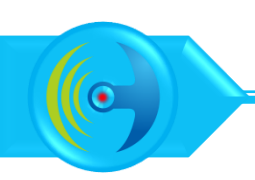
天线		
Freq(MHz)	Efficiency (%)	Gian(dBi)
2400	30.47	0.98
2410	31.45	1.07
2420	32.76	1.38
2430	35.05	1.71
2440	37.51	1.72
2450	36.96	1.57
2460	36.37	1.40
2470	34.10	1.42
2480	33.13	1.76
2490	32.08	1.88
2500	31.32	1.88



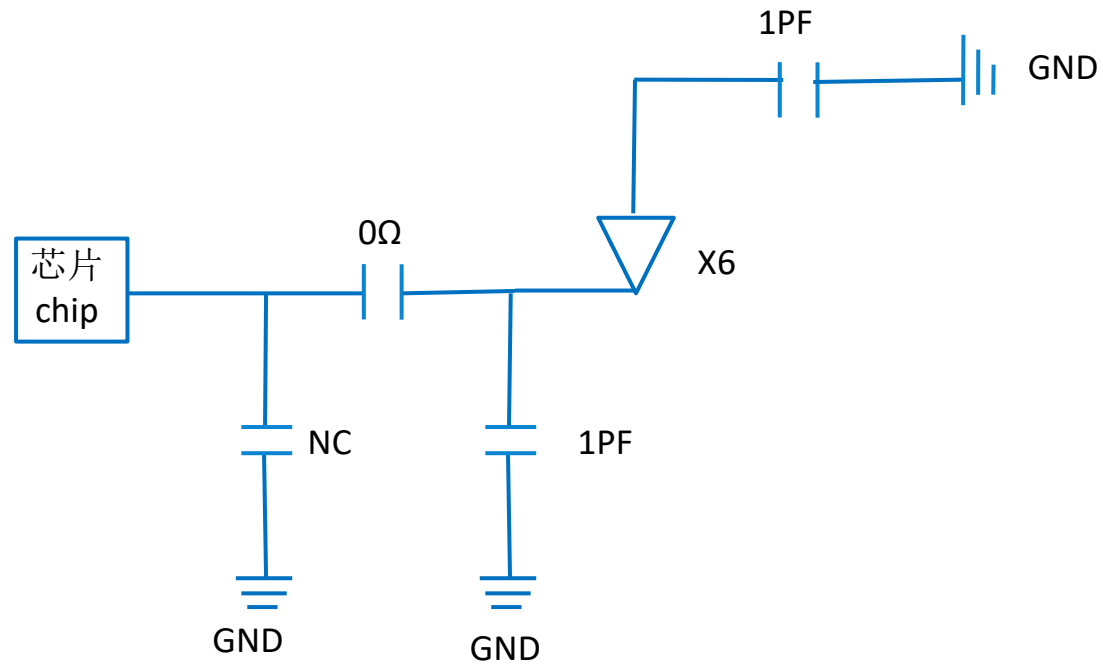
天线辐射方向图

Antenna Radiation Pattern





天线匹配



Thanks for your support!
感谢您的支持!

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