

# 专业天线服务商

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



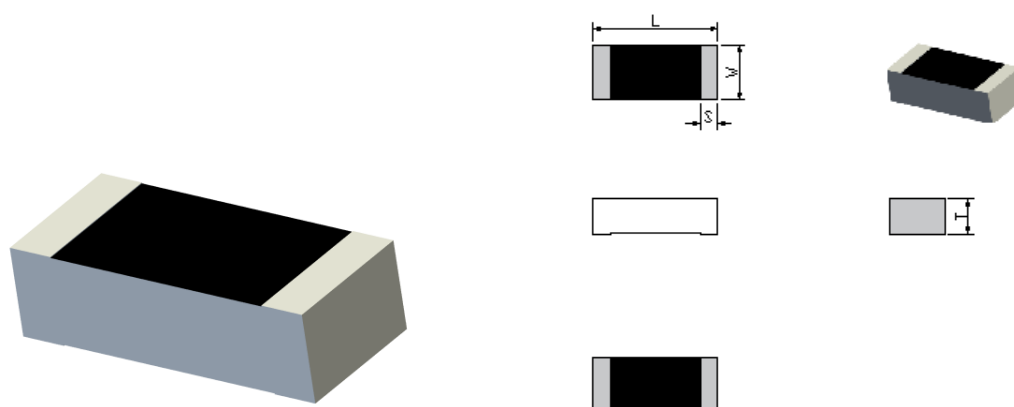
# 天线测试报告

Antenna test report

|      |            |
|------|------------|
| 项目型号 | Y80 2X     |
| 天线型号 |            |
| 测 试  | 魏月娥        |
| 审 核  | 范敏         |
| 日 期  | 2023-04-07 |

## 1. 项目信息 Project Information

### 1.1. 外观尺寸 Appearance and Dimensions

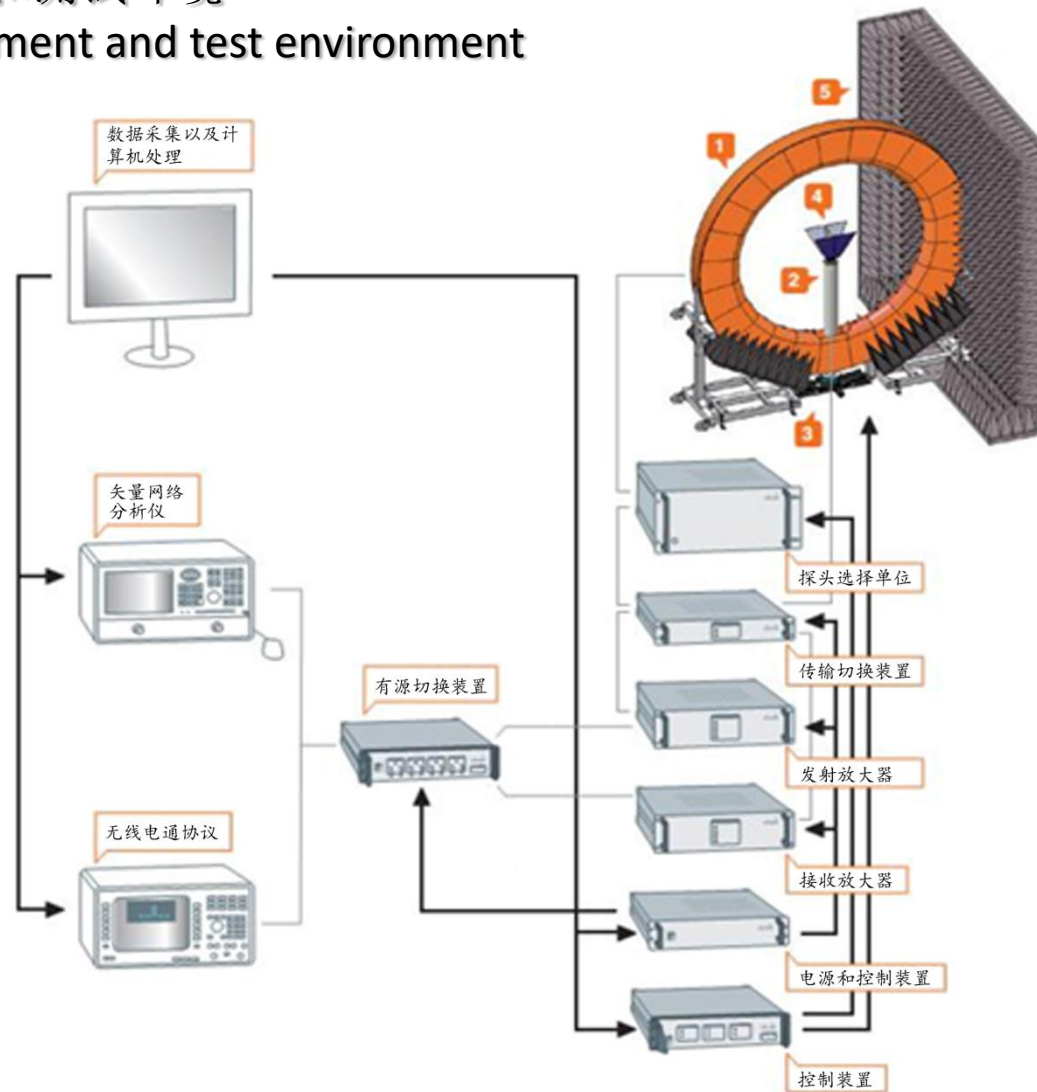


| Symbol   | Dimension (mm) |
|----------|----------------|
| L (长度)   | $3.2 \pm 0.20$ |
| W (宽度)   | $1.6 \pm 0.20$ |
| T (厚度)   | $1.0 \pm 0.20$ |
| S (电极宽度) | $0.4 \pm 0.20$ |



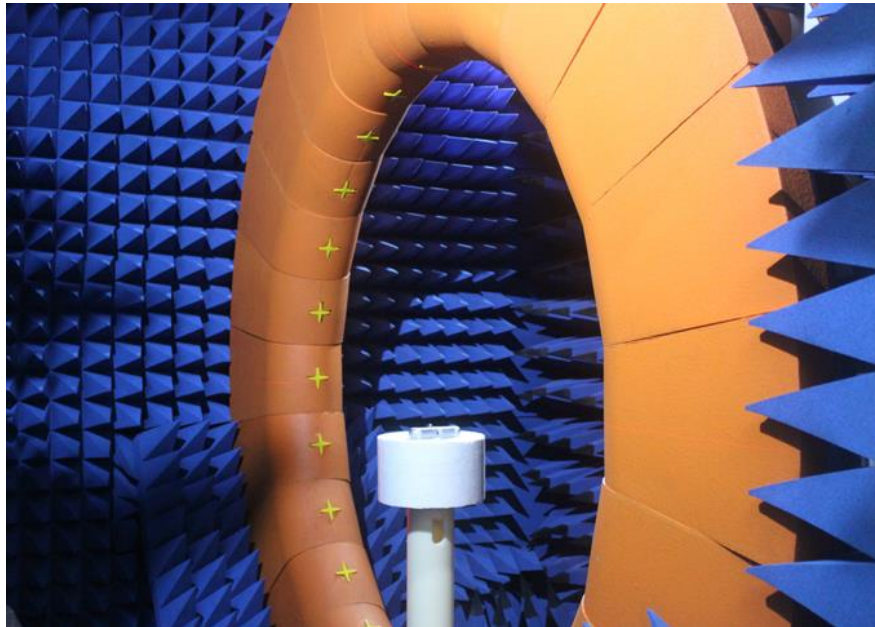
## 测试设备和测试环境

### Test equipment and test environment





## 测试设备 Test equipment



探头微波暗室

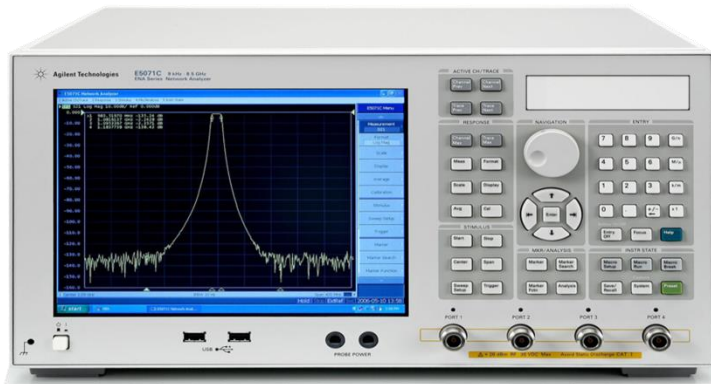
➤ 频率：0.4GHz至6GHz

## 主要测试指标

- ◆ 无源指标
- ◆ 增益
- ◆ 效率
- ◆ 3D方向图
- 有源指标
- TRP总辐射功率
- TIS总接收灵敏度



## 测试设备 Test equipment



Agilent E5071C矢量网络分析仪

- 频率：300 kHz至8.5GHz

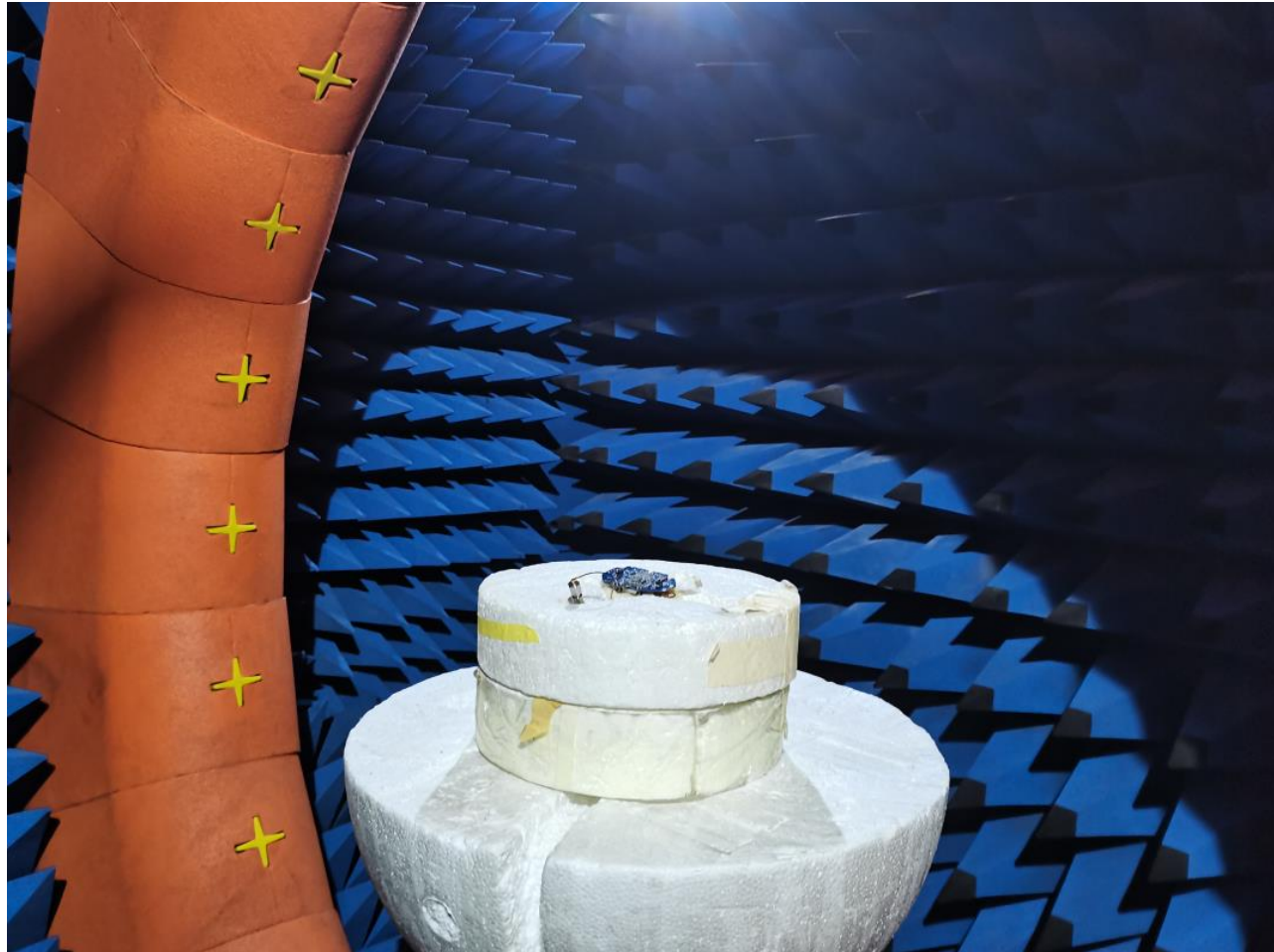


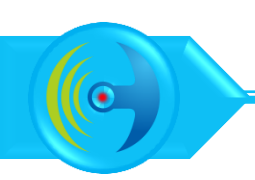
R&S CMW500 宽带无线通信测试仪

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

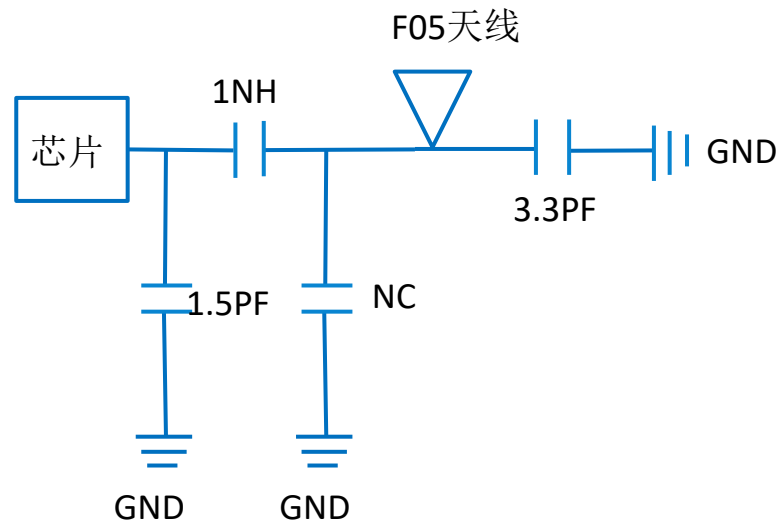


测试拍照  
Test photos



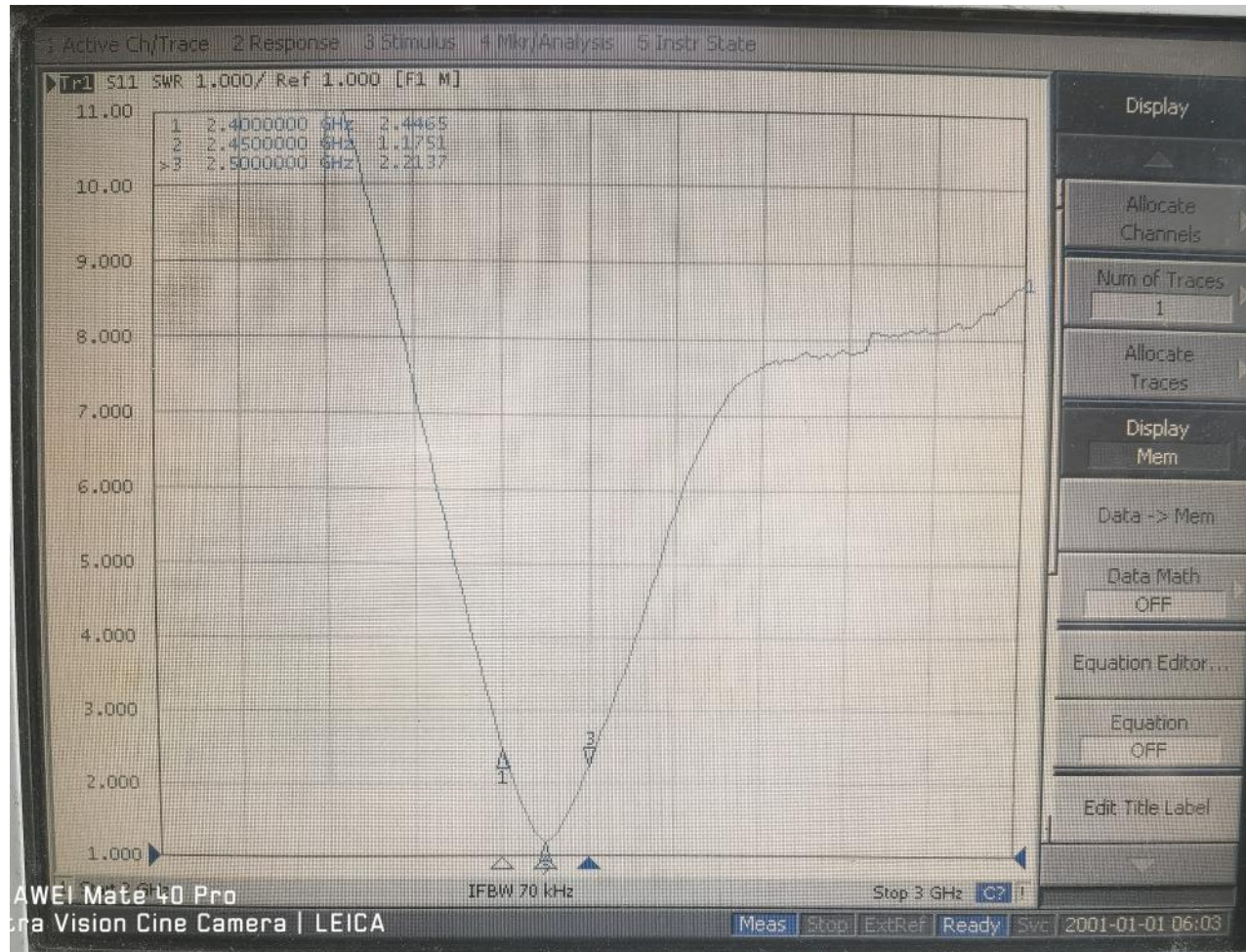


## 天线匹配





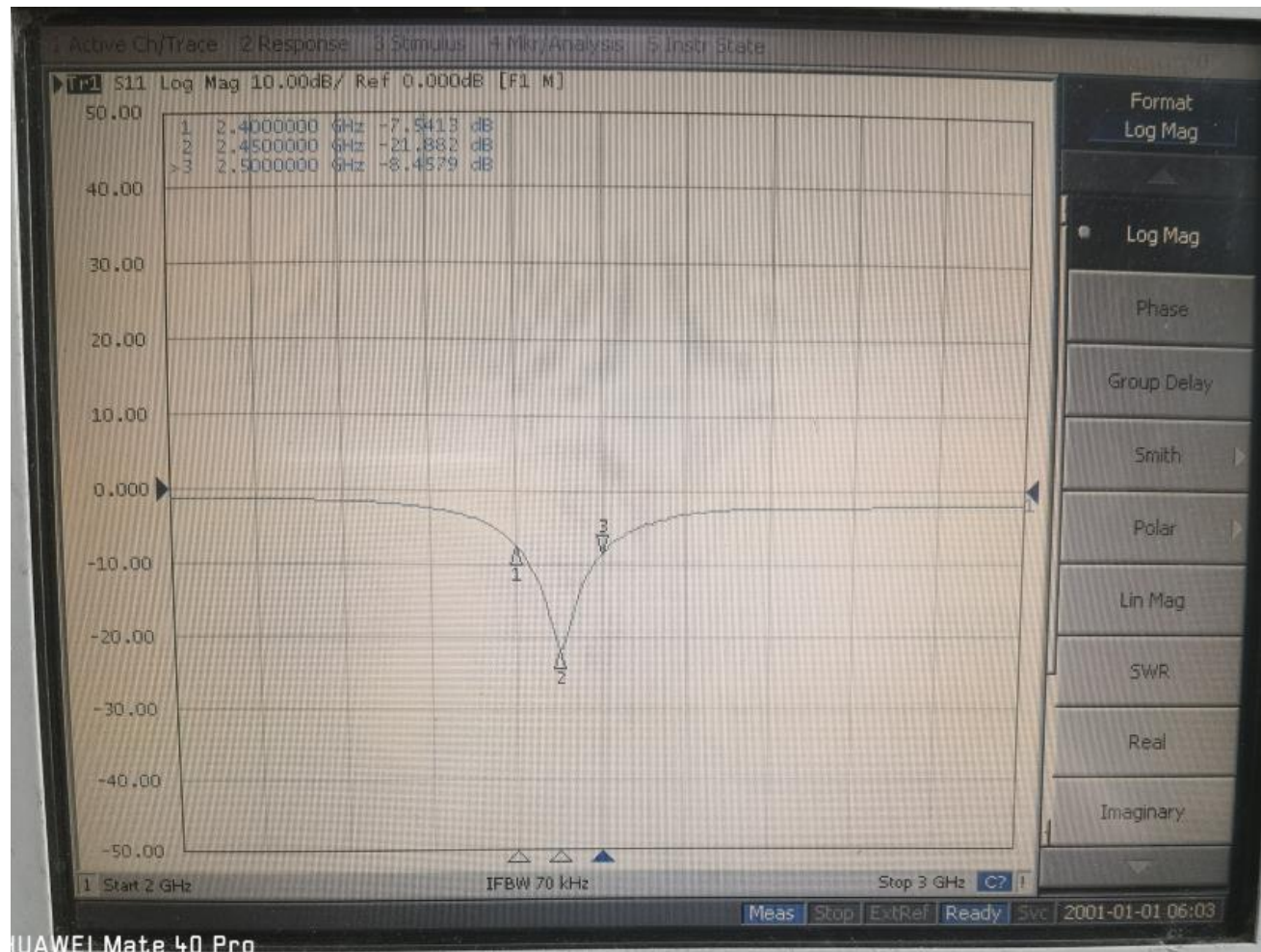
## 天线驻波比 Antenna SWR





天线回波损耗

Antenna Return loss





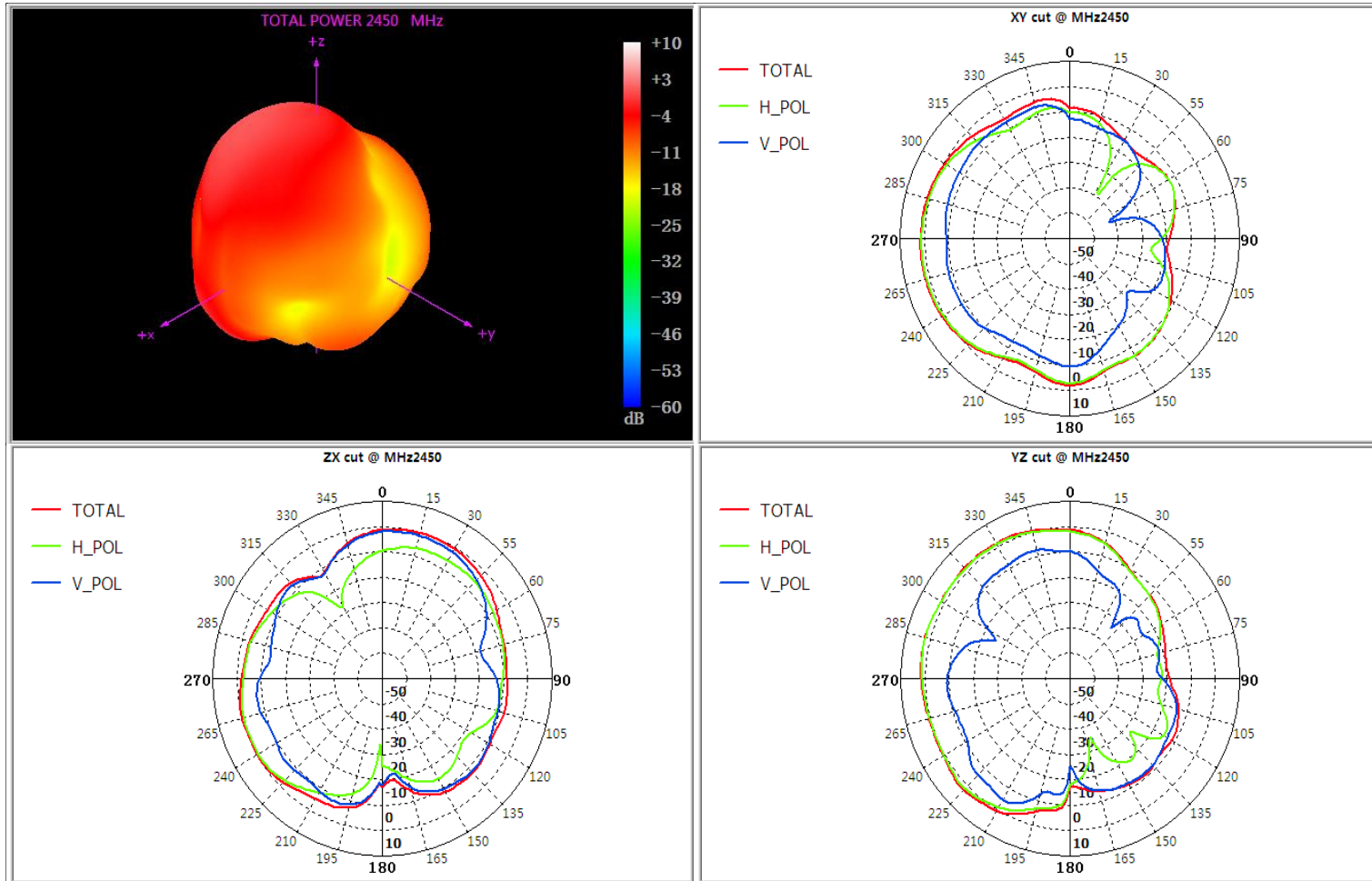
## 天线增益与效率

## Antenna gain and efficiency

| 天线        |                |           |
|-----------|----------------|-----------|
| Freq(MHz) | Efficiency (%) | Gain(dBi) |
| 2400      | 43.86          | 1.83      |
| 2410      | 45.4           | 1.55      |
| 2420      | 44.76          | 1.99      |
| 2430      | 43.76          | 2.17      |
| 2440      | 45.96          | 2.46      |
| 2450      | 48.62          | 2.59      |
| 2460      | 49.59          | 2.69      |
| 2470      | 50.45          | 2.72      |
| 2480      | 49.52          | 2.8       |
| 2490      | 47.7           | 2.8       |
| 2500      | 46.05          | 2.94      |



# 天线辐射方向图 Antenna Radiation Pattern



**Thanks for your support!**  
**感谢您的支持!**

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