

# 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

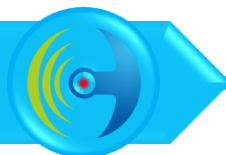
项目型号 M185

天线型号

测 试 许高富

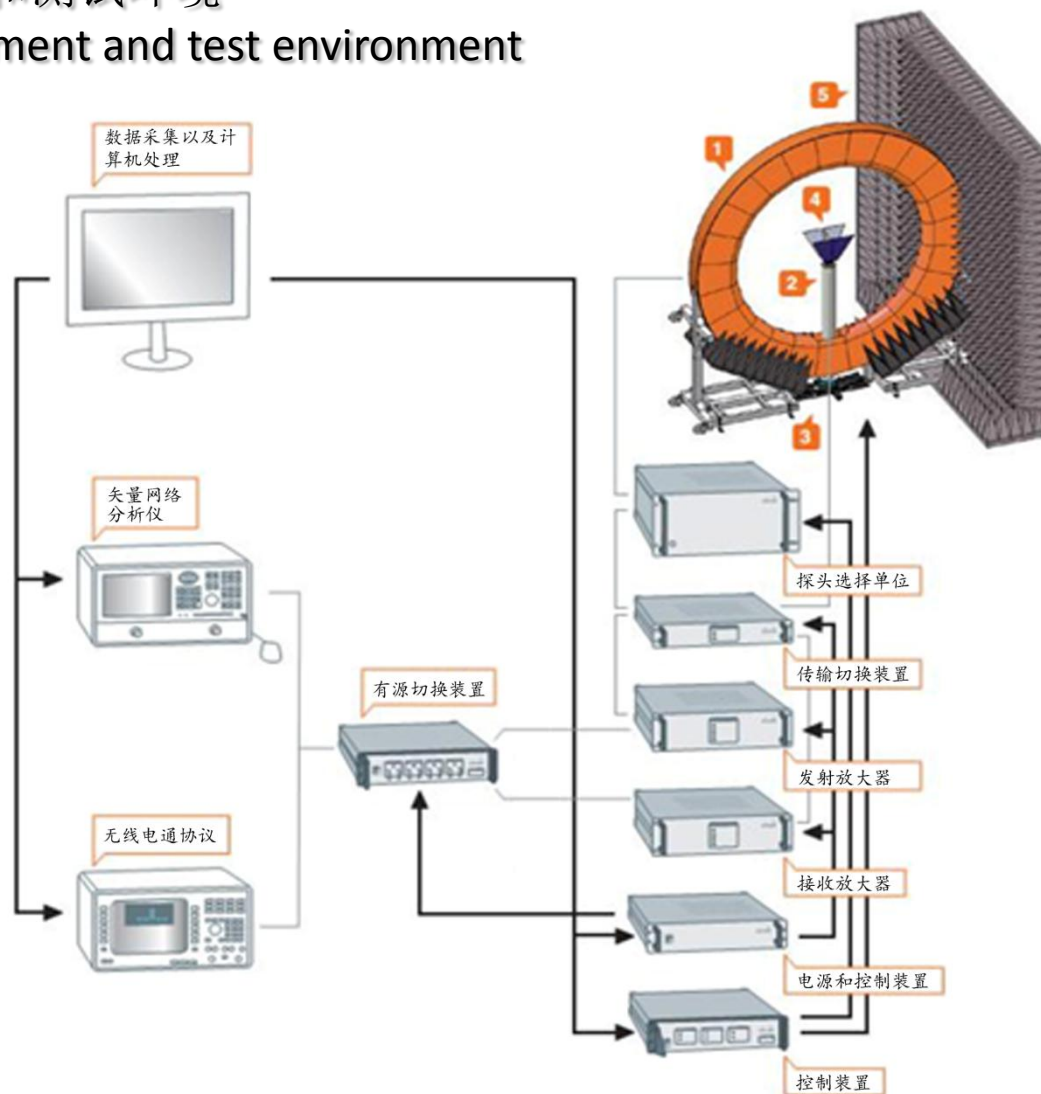
审 核 夏兴喜

日 期 2023-9-18



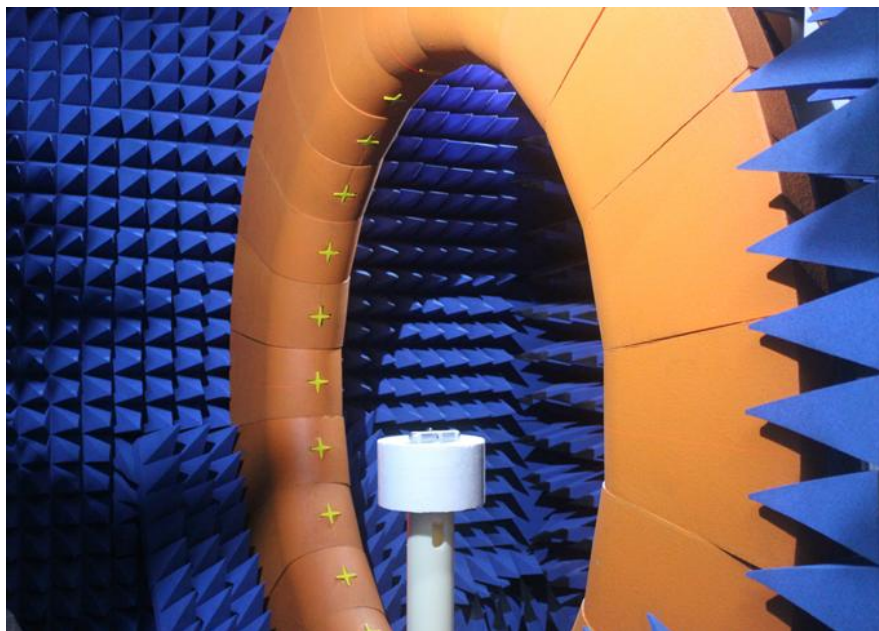
## 测试设备和测试环境

### Test equipment and test environment





## 测试设备 Test equipment



探头微波暗室

➤ 频率：0.4GHz至6GHz

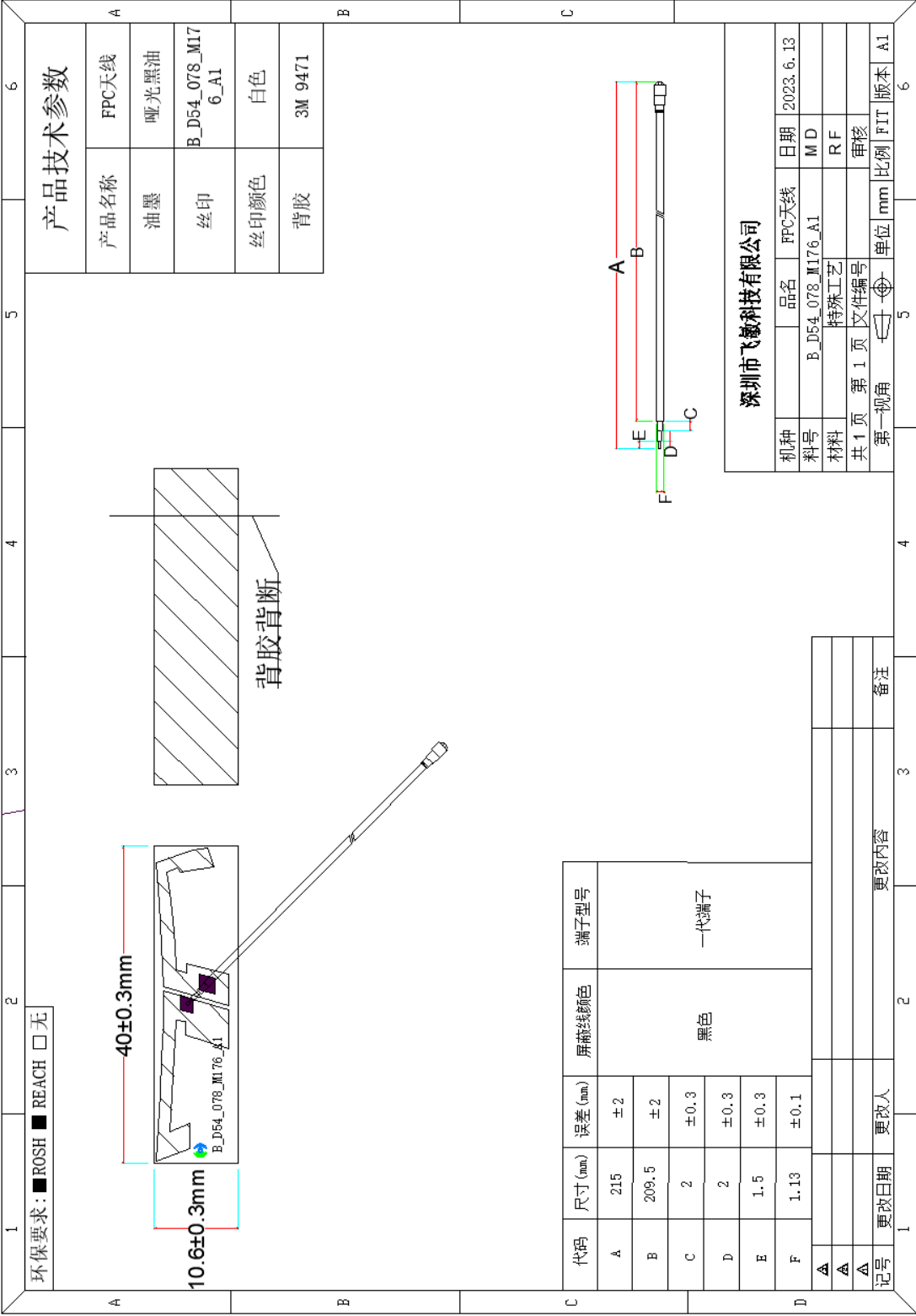
## 主要测试指标

- ◆ 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

ANTENNA SPECIFICATION

项目信息 Project Information

外观尺寸 Appearance and Dimensions



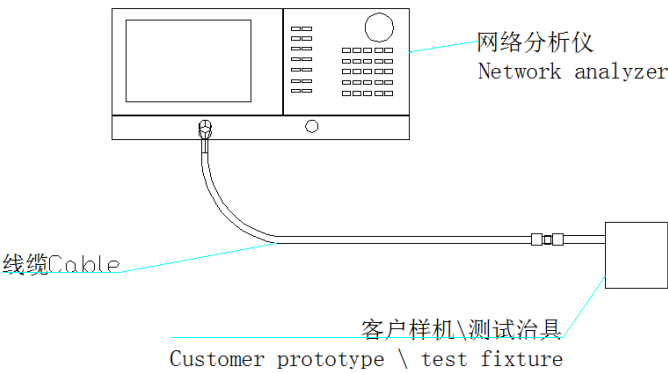
# ANTENNA SPECIFICATION

## 电气性能 Electrical Characteristics

### 测试环境条件 Test Environment Conditions

|                |                                  |
|----------------|----------------------------------|
| 温度 Temperature | Ordinary Temperature (5 to 35℃)  |
| 湿度 Humidity    | Ordinary Humidity (25 to 85% RH) |

### 测试方法 Measurement method

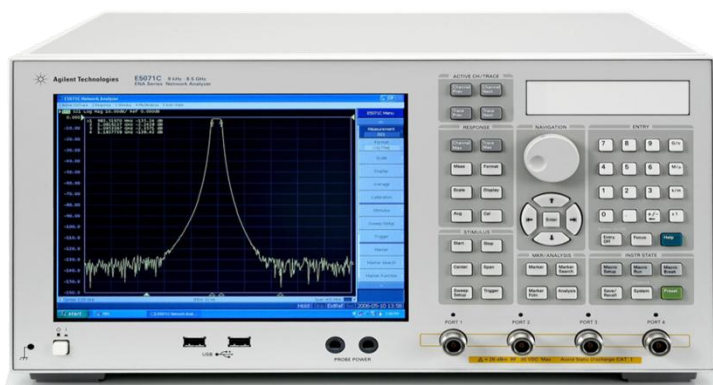


### 天线参数 Pictorial view

| 天线的主要参数<br>Main Technical Specifications |                      |                           |                          |
|------------------------------------------|----------------------|---------------------------|--------------------------|
| 频段 (MHz)<br>Frequency Range              | 阻抗 (Ω)<br>Impendence | 极化方式<br>Polarization mode | 匹配网络<br>Matching network |
| 2400-2500                                | 50                   | 线极化<br>Line polarization  | π 型                      |



## 测试设备 Test equipment



Agilent E5071C矢量网络分析仪

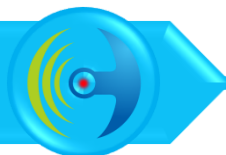
- 频率：300 kHz至8.5GHz



R&S CMW500 宽带无线通信测试仪

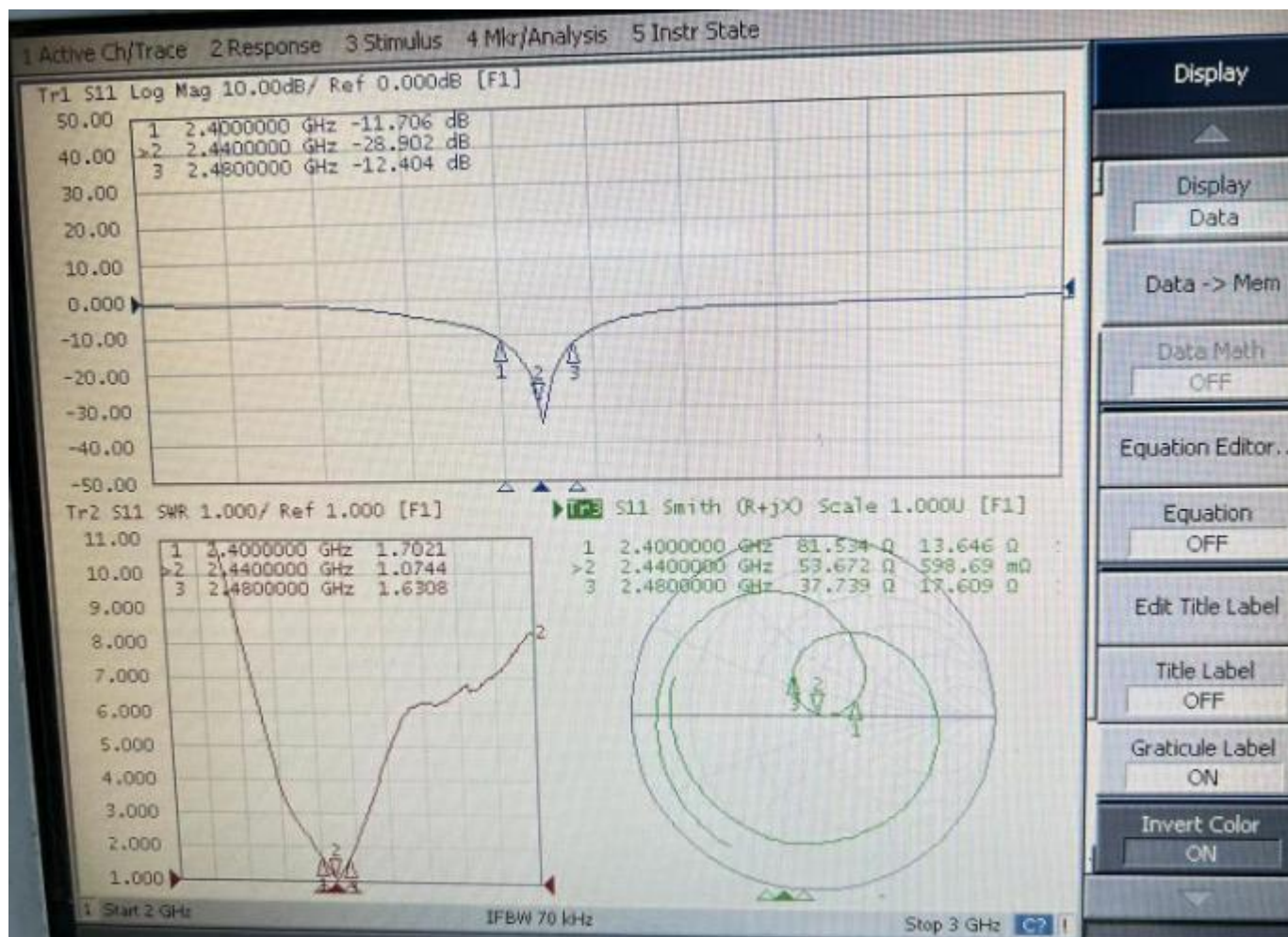
- GSM/3G/4G
- WIFI/ Bluetooth
- NB-IoT





天线驻波比  
Antenna SWR

天线回波损耗  
Antenna Return loss



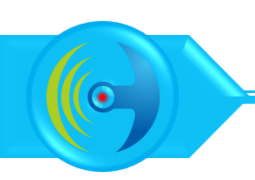




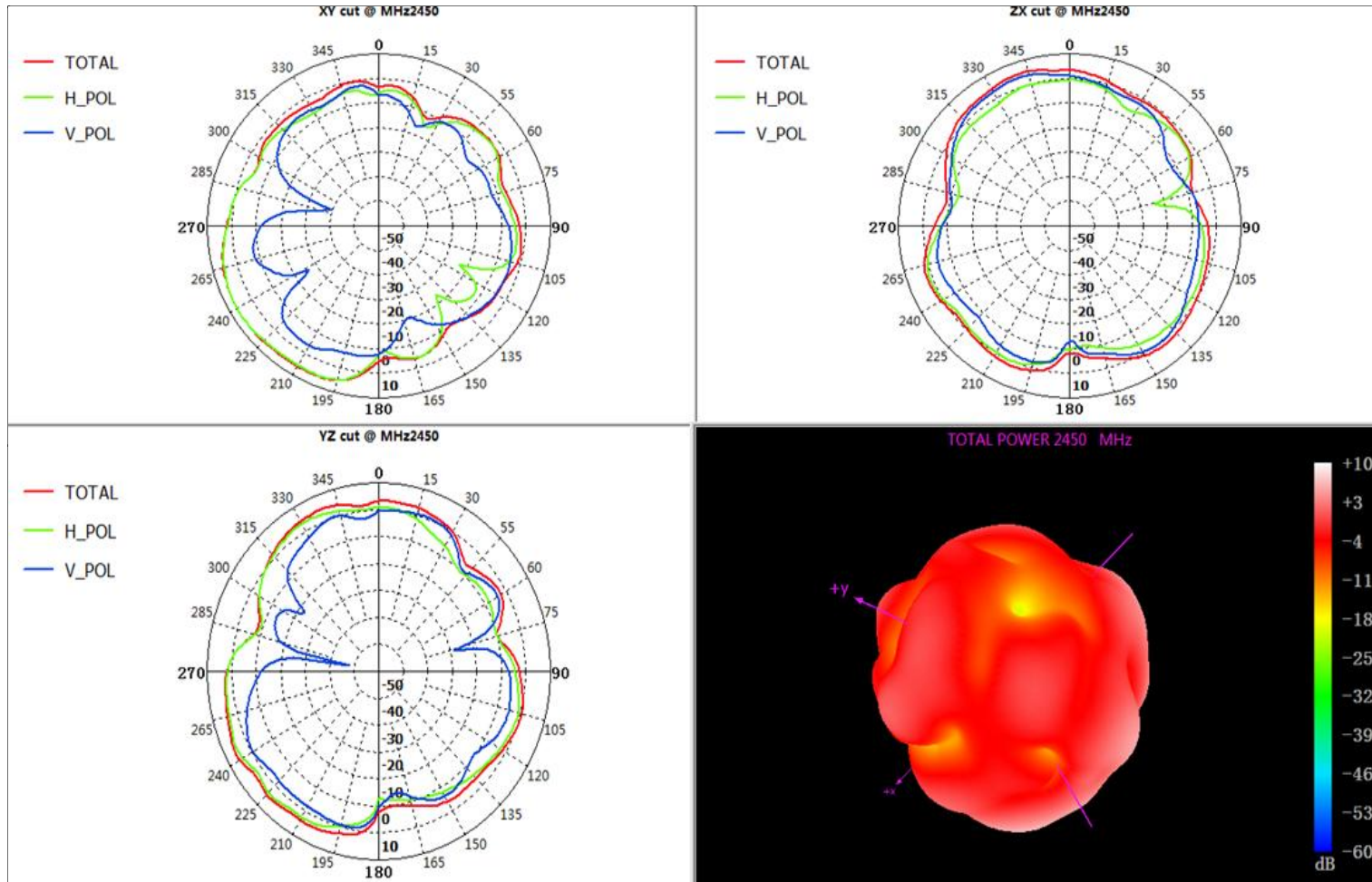
## 天线增益与效率

## Antenna gain and efficiency

| 天线        |                |           |
|-----------|----------------|-----------|
| Freq(MHz) | Efficiency (%) | Gain(dBi) |
| 2400      | 48.05          | 3.30      |
| 2410      | 46.10          | 3.24      |
| 2420      | 48.10          | 3.31      |
| 2430      | 50.13          | 3.28      |
| 2440      | 52.21          | 3.20      |
| 2450      | 53.56          | 3.02      |
| 2460      | 54.83          | 3.04      |
| 2470      | 56.38          | 3.18      |
| 2480      | 57.74          | 3.22      |
| 2490      | 58.62          | 3.26      |
| 2500      | 60.28          | 3.27      |



## 天线辐射方向图 Antenna Radiation Pattern



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

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