

## Antenna Sample Datasheet

|                    |              |
|--------------------|--------------|
| customer:          |              |
| entry name:        | 2.4G 天线      |
| Material category: | 2.4G antenna |
| Antenna Type       | Monopole     |
| Antenna Material   | FPC+cable    |
| edition:           | A0           |
| Date:              | 2025.11.20   |

## Contents

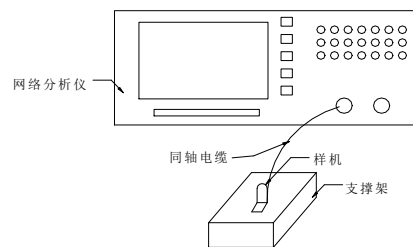
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## 1: Antenna test equipment

List of meters: Agilent 5071B;

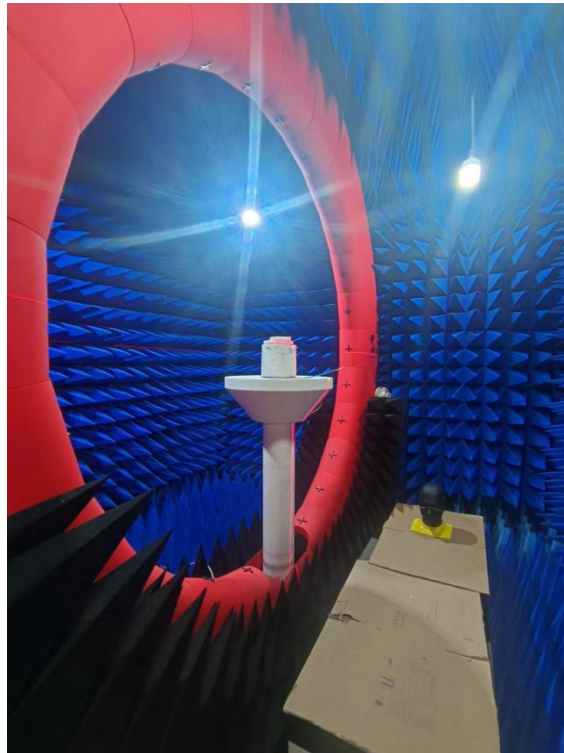


### 1.1The principle diagram of the ETS anechoic chamber



Picture1.Antenna static test connection method

## 1.2 Pictures of the ETS anechoic chamber



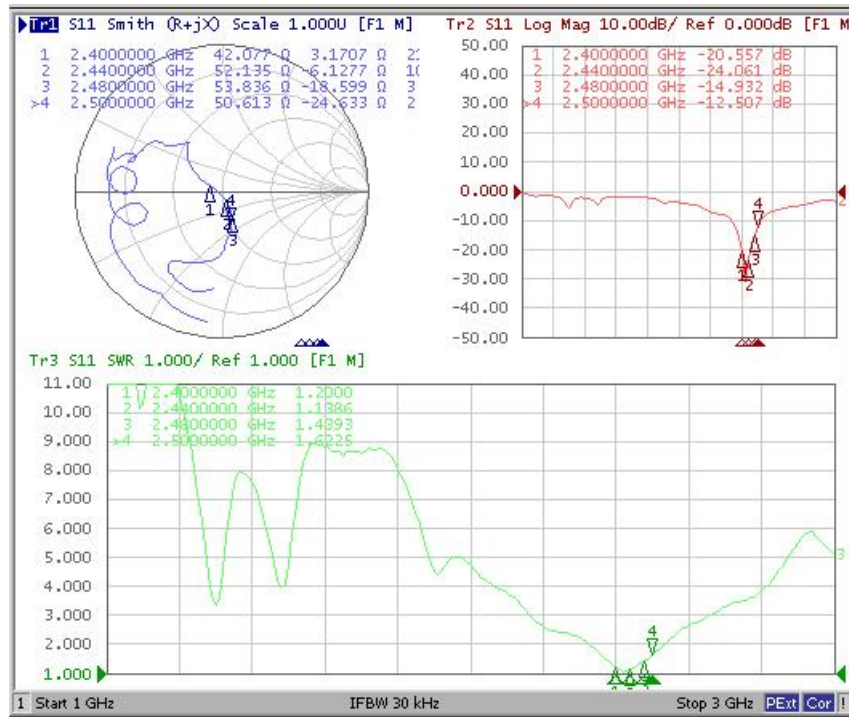
Inside the ETS anechoic chamber



Test Machine

## 2: Passive test report

### 2.1: 2.4G antenna S11 parameters



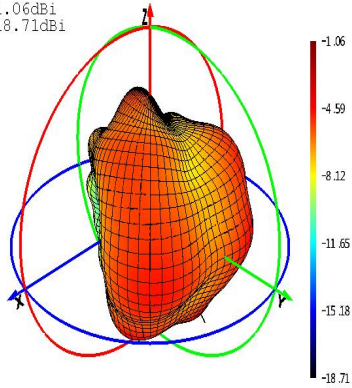
### 2.2: Passive efficiency of antenna

| Freq(MHz) | Gain(dBi) | Efficiency(%) |
|-----------|-----------|---------------|
| 2400      | -1.06     | 27.58         |
| 2410      | -1.00     | 28.83         |
| 2420      | -0.99     | 30.85         |
| 2430      | -0.74     | 32.26         |
| 2440      | -0.47     | 33.40         |
| 2450      | -0.12     | 35.07         |
| 2460      | -0.02     | 35.65         |
| 2470      | 0.15      | 39.62         |
| 2480      | 0.24      | 41.49         |

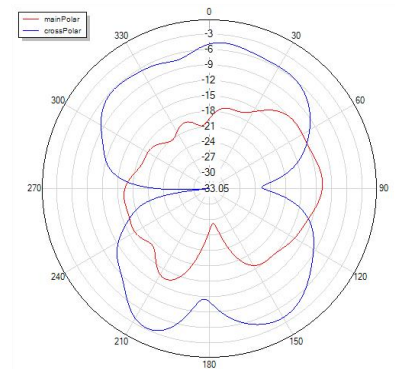
## 2.3: Passive pattern of 2.4G antenna

### 2400MHz

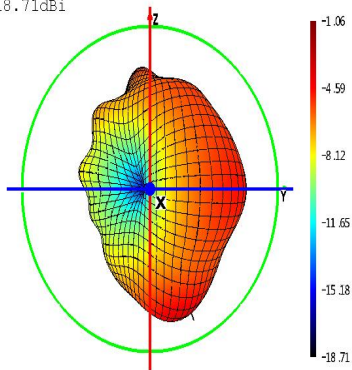
MAX: -1.06dBi  
MIN: -18.71dBi



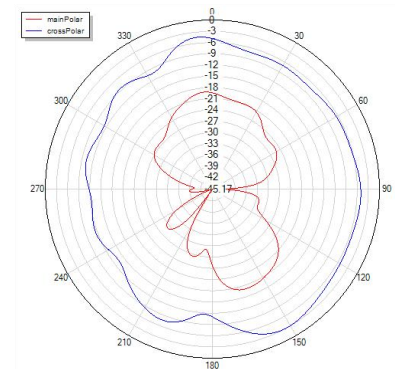
Phi=0 freq=2400MHz



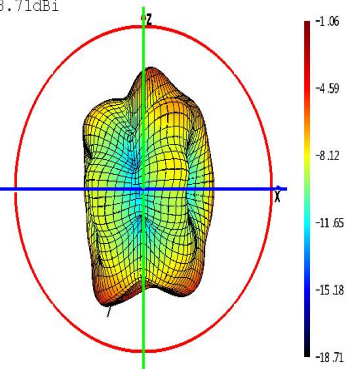
MAX: -1.06dBi  
MIN: -18.71dBi



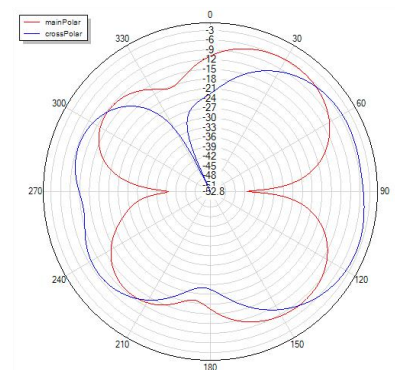
Phi=90 freq=2400MHz



MAX: -1.06dBi  
MIN: -18.71dBi



Theta=90 freq=2400MHz



### 3: tructural drawing

