

## Antenna describe

### 1. Antenna describe;

|                      |                  |
|----------------------|------------------|
| Antenna plate        | PCB antenna      |
| Make name/model name |                  |
| SIZE                 | 17.0mm*3.00mm    |
| Antenna gain         | 0.44dBi          |
| Frequency range      | 2.4GHZ—2.4835GHZ |
| Format VSWR          | 1.5              |
| Format Smith         | 50 $\Omega$      |
| Format Log Mag       | -18.31dB         |

### 2. External view drawing;

Picture of antenna

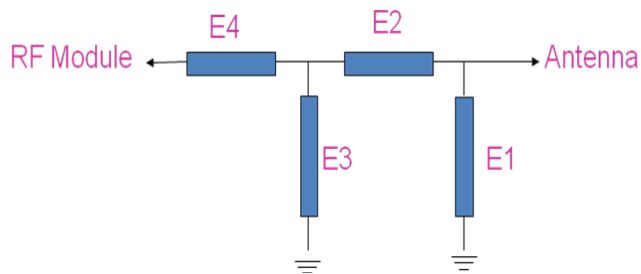


# Test System

| Sequence Number   | Test Item         | equipment                     |
|-------------------|-------------------|-------------------------------|
| S parameter       | VSWR              | Agilent 5071C & Agilent 5062A |
| Gain & Efficiency | Gain & Efficiency | ETS&SATIMO<br>Agilent 5071C   |

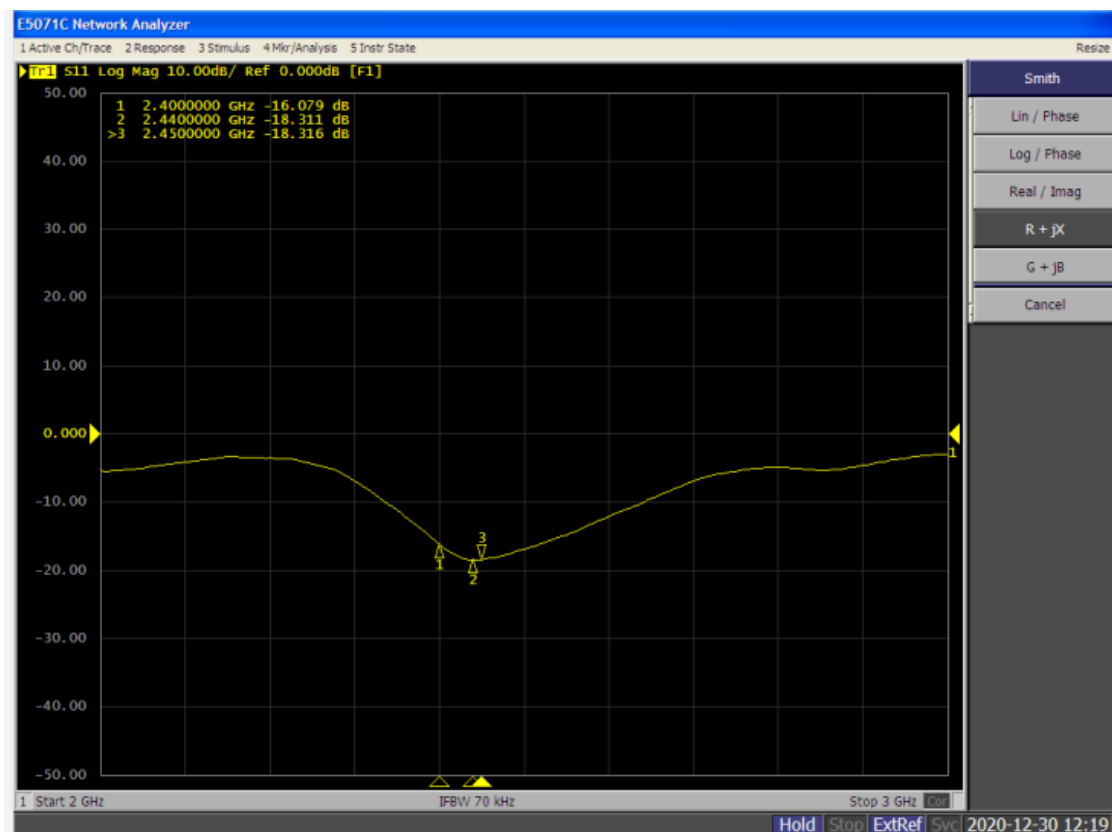


# Antenna Matching Network

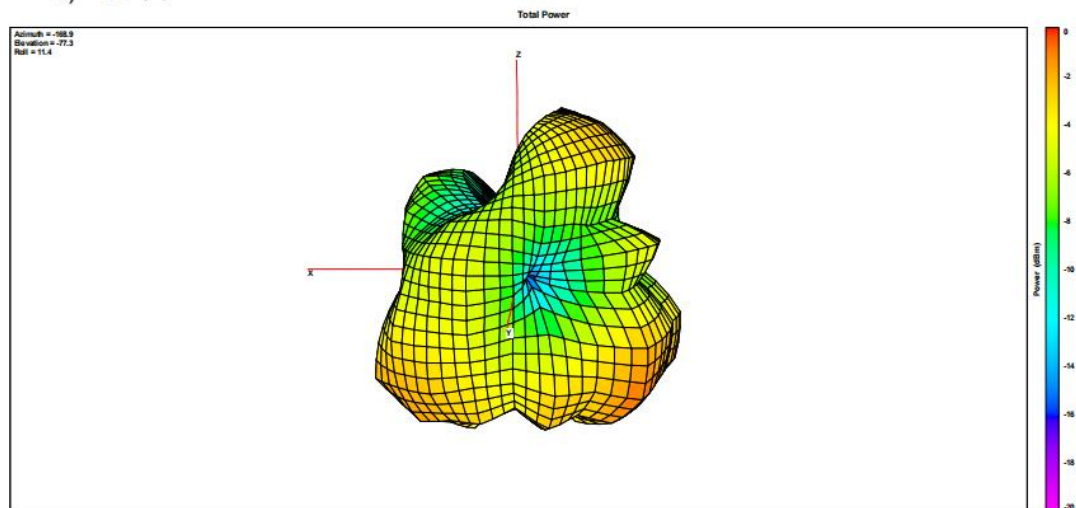


| Element | Capacitor | Inductor |
|---------|-----------|----------|
| E1      | N/A       | N/A      |
| E2      | N/A       | N/A      |
| E3      | N/A       | N/A      |
| E4      | N/A       | N/A      |

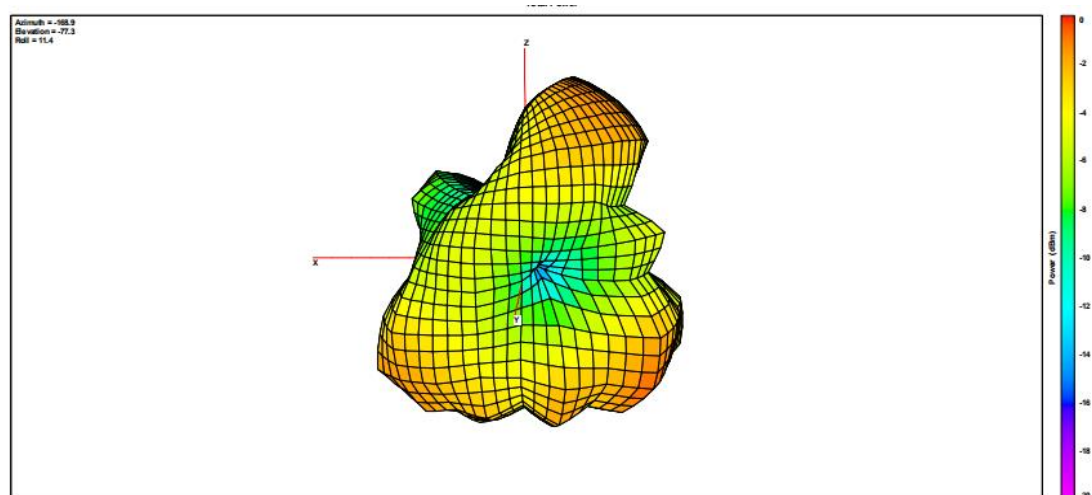
### PCB板端匹配电路未改动



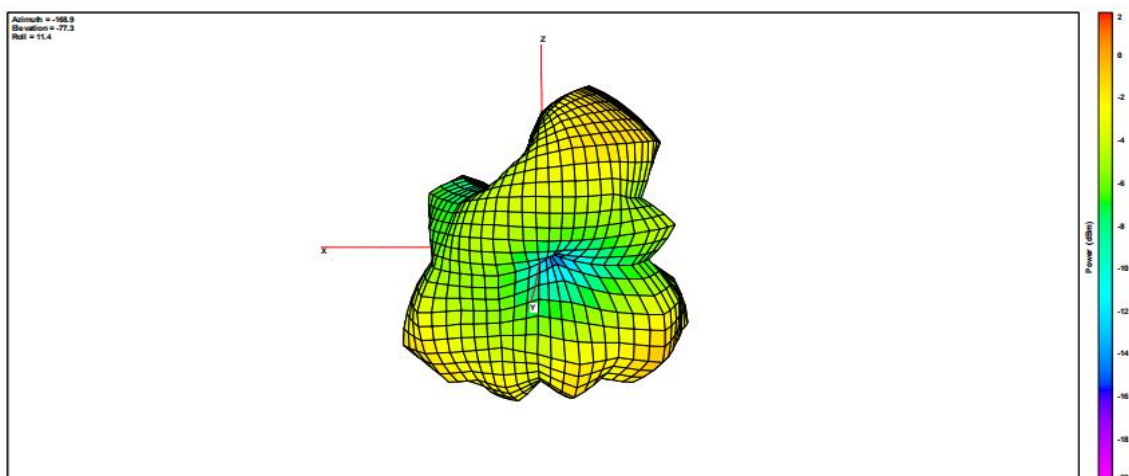
a) 3D 图



2400MHz



2450MHz



2500MHz

| 频率      | 增益(dBi) | 效率(%) |
|---------|---------|-------|
| 2400MHz | -0.44   | 27.83 |
| 2410MHz | -0.50   | 27.77 |
| 2420MHz | -0.68   | 27.70 |
| 2430MHz | -0.71   | 27.90 |
| 2440MHz | -0.49   | 29.61 |
| 2450MHz | -0.27   | 31.14 |
| 2460MHz | -0.24   | 31.91 |
| 2470MHz | -0.38   | 32.01 |
| 2480MHz | -0.37   | 32.01 |
| 2490MHz | -0.02   | 32.96 |
| 2500MHz | 0.44    | 34.66 |

b) 2D 图

