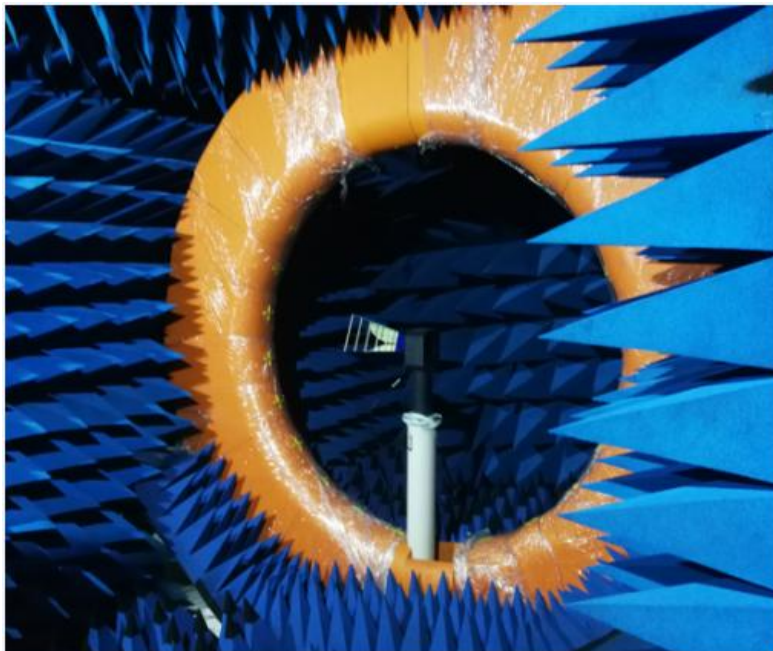


| Product electrical performance indicators             |                                                      |
|-------------------------------------------------------|------------------------------------------------------|
| Operation frequency                                   | 2400~2500MHz<br>5100~5850MHz                         |
| VSRW                                                  | 2400~2500MHz<2.0<br>5100~5850MHz<2.0                 |
| Gain                                                  | 2400~2500MHz:2dBi ± 1dBi<br>5100~5850MHz:2dBi ± 1dBi |
| Radiation efficiency                                  | 2400~2500 MHz>40 %<br>5100~5850MHz>40 %              |
| Impedance                                             | 50 ohm                                               |
| Product material description                          |                                                      |
| FPC Coaxial cable 1.13*100mm 1st generation terminals | Electrolytic copper+PI                               |
| Product environmental description                     |                                                      |
| working temperature                                   | - 30°C ~ + 85 °C                                     |
| storage temperature                                   | - 30°C ~ + 85 °C                                     |



### 3.2 仪器设备



24-probe microwave chamber



R&S CMW500

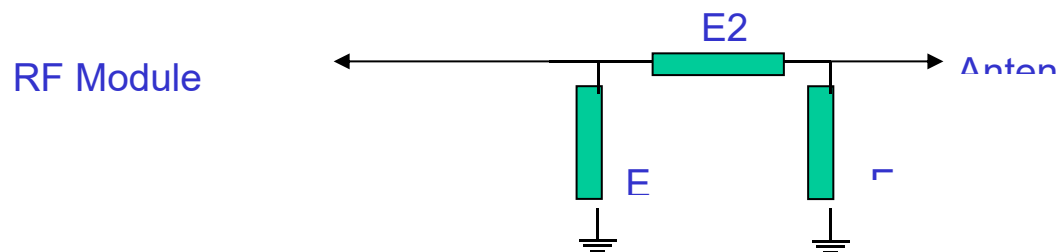


Agilent E4405B 频谱仪



Agilent Technologies E5071B

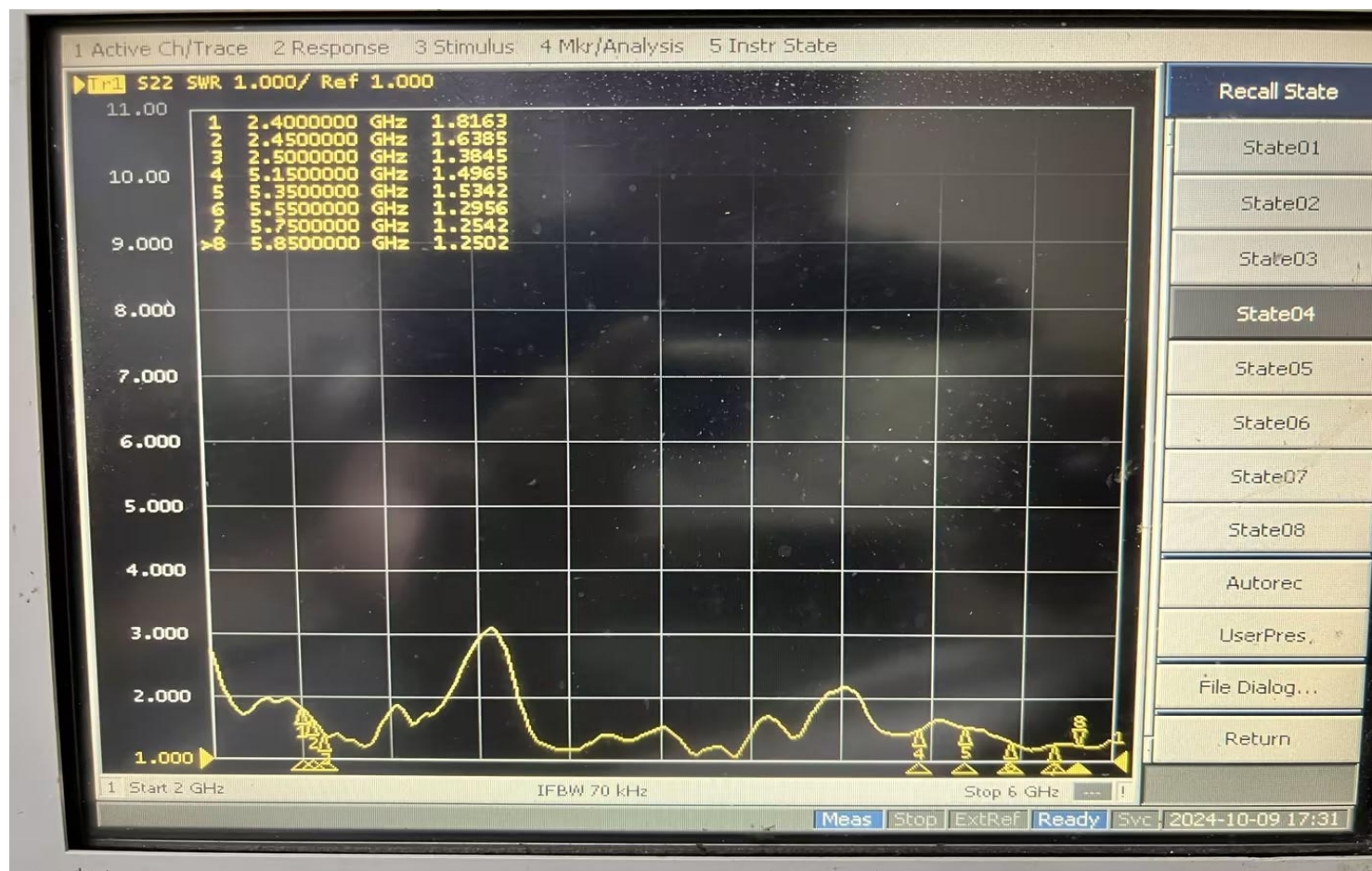
### 4. Matching circuit description:



| Element  | Value      | Vender |
|----------|------------|--------|
| E1(0201) | NC         |        |
| E2(0201) | 0 $\Omega$ |        |
| E3(0201) | NC         |        |



## 5. No source standing wave diagram & Smith chart



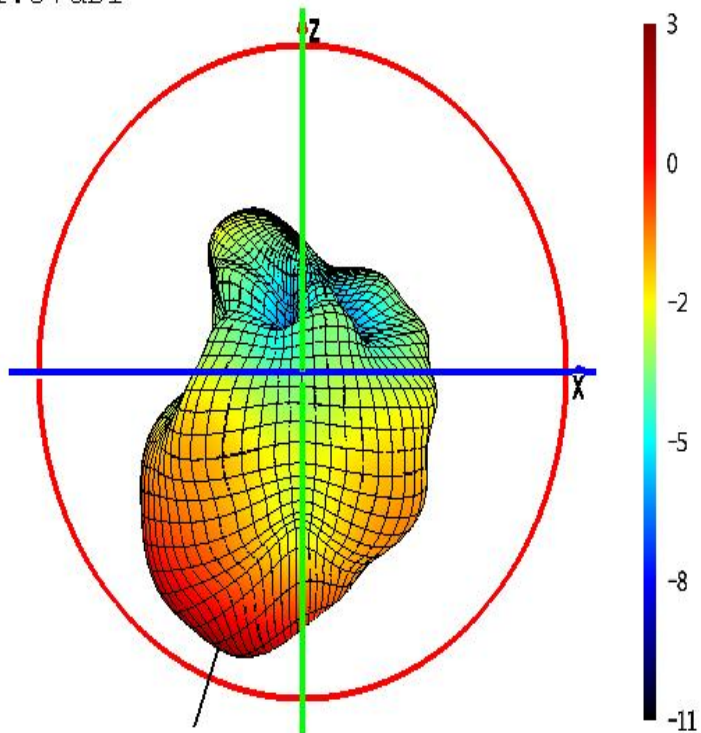
## 6. 2400M Antenna gain, efficiency and radiation pattern:

| Frequency<br>频率(MHz) | Gain<br>增益(dBi) | Efficiency<br>效率(dB) | Efficiency<br>效率(%) |
|----------------------|-----------------|----------------------|---------------------|
| 2400.00              | 2.66            | -2.87                | 51.66               |
| 2410.00              | 2.77            | -2.80                | 52.52               |
| 2420.00              | 2.90            | -2.71                | 53.63               |
| 2430.00              | 2.69            | -2.89                | 51.36               |
| 2440.00              | 2.92            | -2.65                | 54.38               |
| 2450.00              | 2.72            | -2.72                | 53.49               |
| 2460.00              | 2.80            | -2.75                | 53.13               |
| 2470.00              | 3.08            | -2.59                | 55.10               |
| 2480.00              | 2.77            | -2.77                | 52.81               |
| 2490.00              | 2.76            | -2.97                | 50.48               |
| 2500.00              | 2.65            | -3.17                | 48.15               |



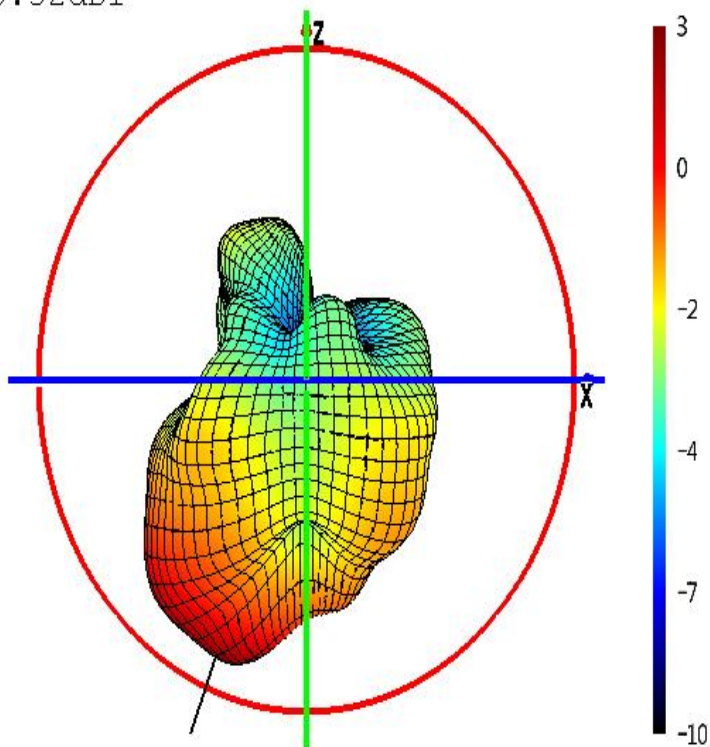
PHi 0°  
Directional  
graph

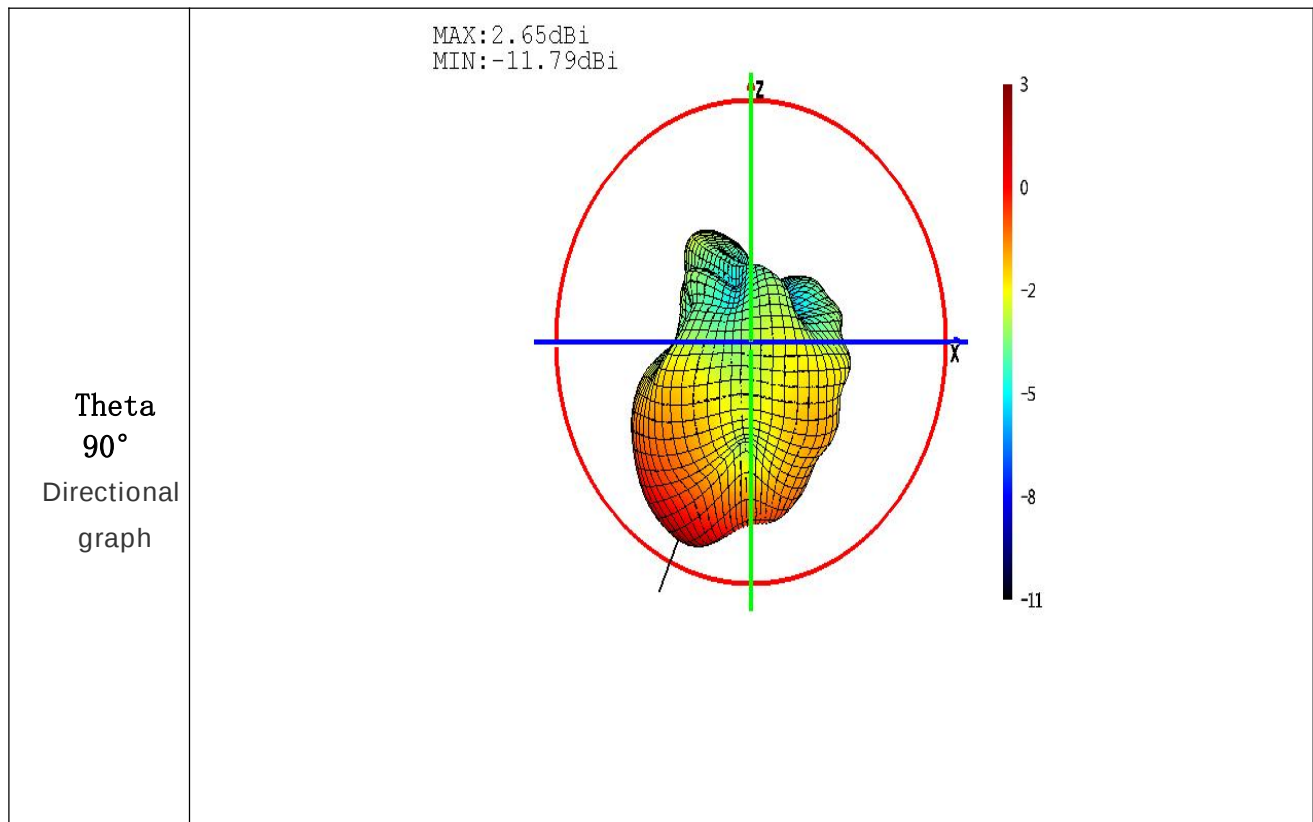
MAX:2.66dBi  
MIN:-11.37dBi



PHi 90°  
Directional  
graph

MAX:2.72dBi  
MIN:-10.32dBi





5850M Antenna gain, efficiency and radiation pattern:

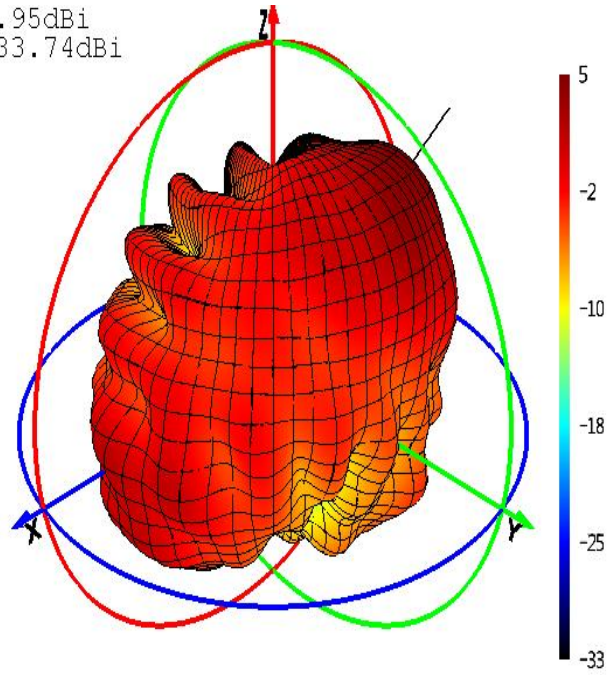
| Frequency<br>频率(MHz) | Gain<br>增益(dBi) | Efficiency<br>效率(dB) | Efficiency<br>效率(%) |
|----------------------|-----------------|----------------------|---------------------|
| 5100.00              | 4.95            | -2.69                | 53.83               |
| 5200.00              | 4.48            | -3.43                | 45.38               |
| 5300.00              | 4.83            | -3.45                | 45.19               |
| 5400.00              | 5.54            | -3.36                | 46.15               |
| 5500.00              | 5.37            | -4.08                | 39.07               |
| 5600.00              | 5.41            | -4.35                | 36.76               |
| 5700.00              | 5.25            | -4.39                | 36.42               |
| 5800.00              | 5.52            | -4.40                | 36.32               |
| 5900.00              | 5.52            | -4.40                | 36.32               |



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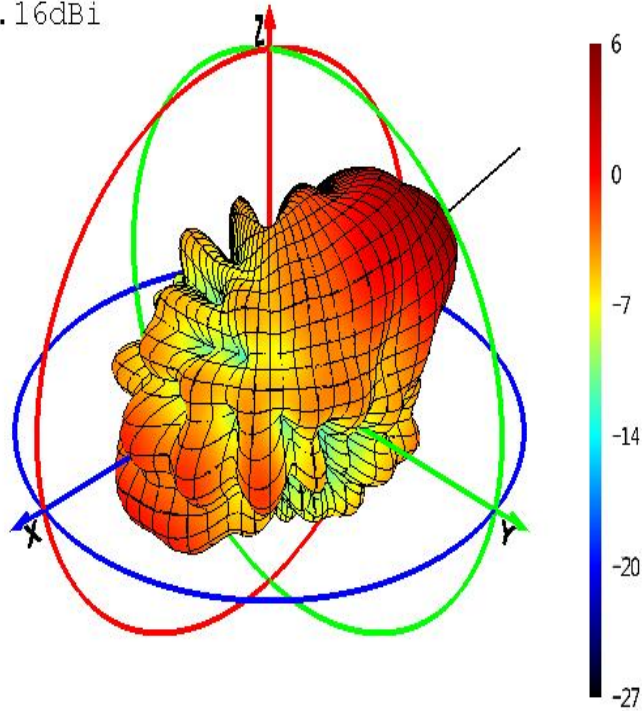
PHi 0°  
Directional  
graph

MAX: 4.95dBi  
MIN: -33.74dBi



PHi 90°  
Directional  
graph

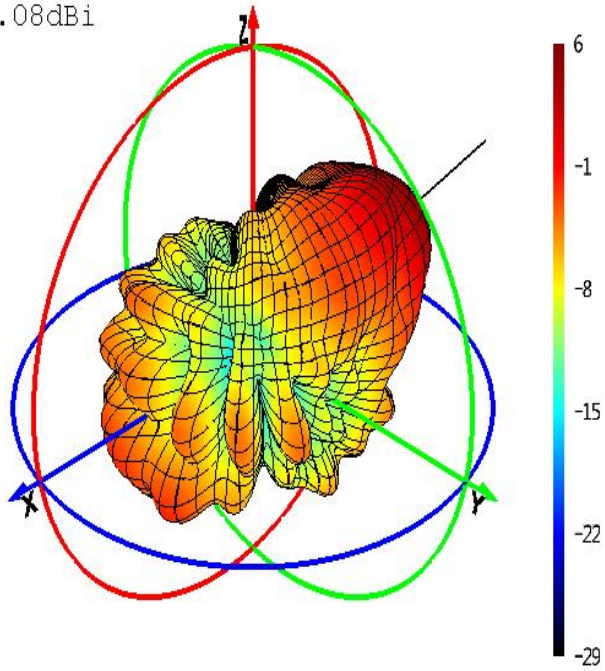
MAX: 5.37dBi  
MIN: -28.16dBi





Theta  
90°  
Directional graph

MAX: 5.52dBi  
MIN: -30.08dBi





7.Product structure diagram:

