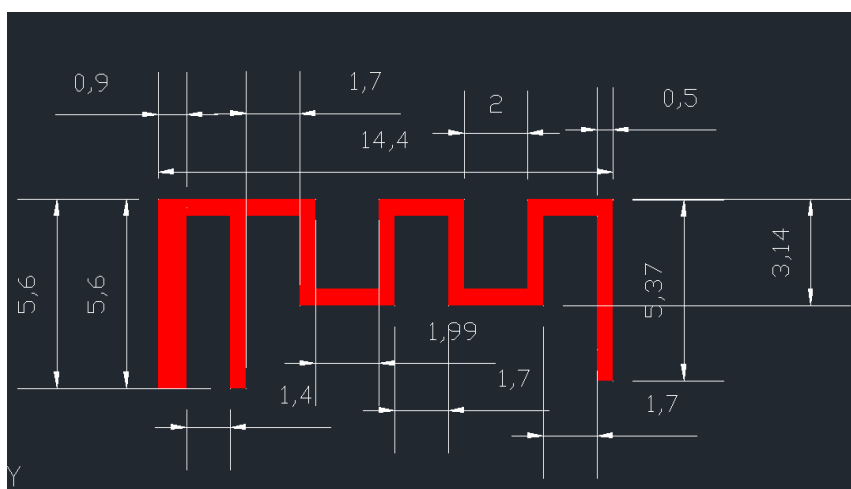


## 2.4G-2.48G 频段板载 PIFA 天线测试报告

### 2.4G-2.48G Inverted F Antenna Specification

| SPECIFICATIONS         |                                                                      |
|------------------------|----------------------------------------------------------------------|
| Frequency (MHz)        | 2400-2480                                                            |
| Peak Gain (dBi)        | 2.499                                                                |
| Average Gain (dBi)     | >-4                                                                  |
| VSWR                   | <3.2                                                                 |
| Impedance ( $\Omega$ ) | 50 $\Omega$                                                          |
| Antenna Type           | Plannar Inverted F Antenna on board                                  |
| Polarization           | Linear                                                               |
| Manufacture            | ZHUHAI JIELI TECHNOLOGY CO.,LTD                                      |
| Address:               | No.333 Kexing Road, Nanping Science Park, Xiangzhou District, Zhuhai |
| Test equipment         | HWA-TECH                                                             |

#### Antenna Photo & Length (mm)



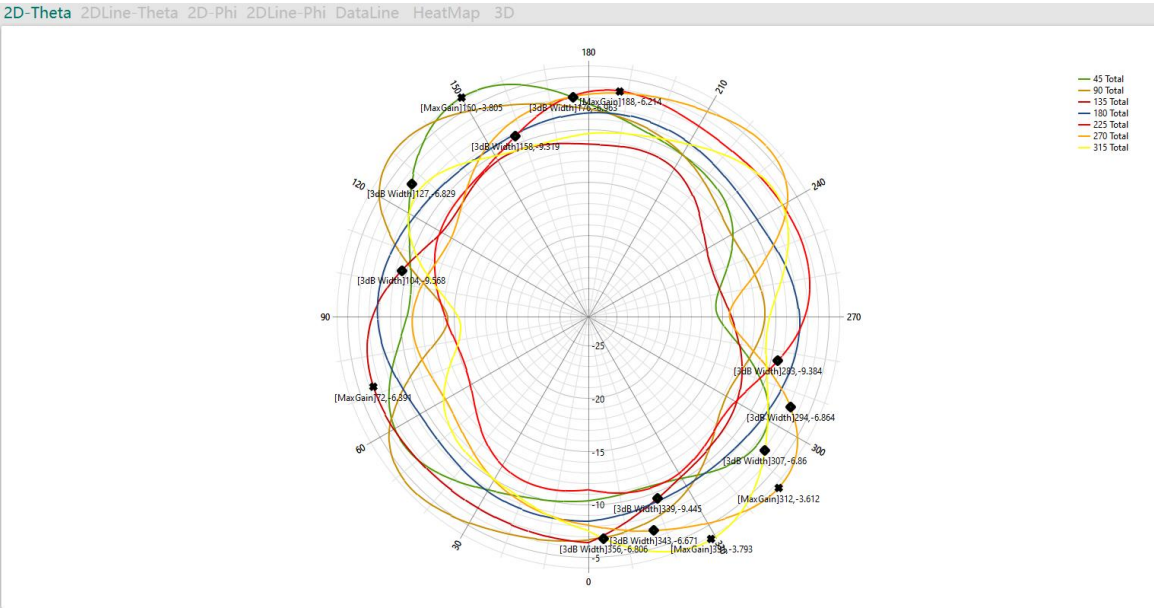
天线无源 S 参数:  
Antenna passive S-parameters:  
驻波比 (VSWR)、回波损耗 (Return Loss) 及史密斯圆图 (Smith)



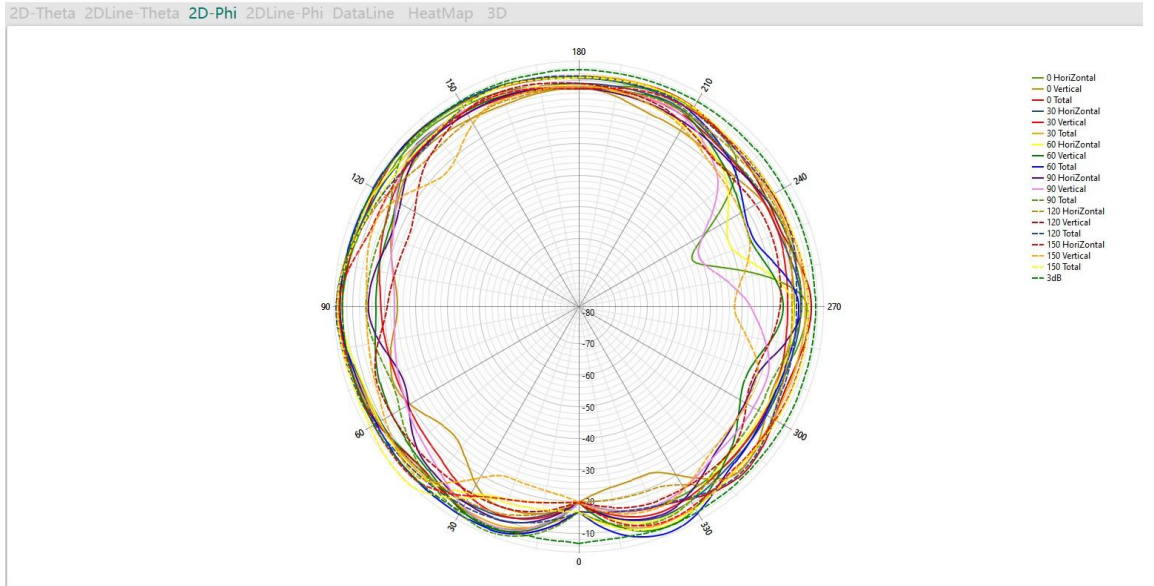
天线效率及增益:  
Antenna efficiency and gain:

| Frequency (MHz) | Gain (dBi) | Effciency (%) | AverageGain (dBi) | Efficiency (dB) |
|-----------------|------------|---------------|-------------------|-----------------|
| 2400            | 1.433      | 59.329%       | -2.717            | -2.267          |
| 2410            | 0.927      | 51.861%       | -3.416            | -2.852          |
| 2420            | 0.829      | 52.112%       | -3.166            | -2.831          |
| 2430            | 0.881      | 49.299%       | -3.258            | -3.072          |
| 2440            | 1.192      | 50.672%       | -3.144            | -2.952          |
| 2450            | 1.688      | 53.067%       | -2.735            | -2.752          |
| 2460            | 2.194      | 59.423%       | -2.276            | -2.260          |
| 2470            | 2.118      | 56.680%       | -2.438            | -2.466          |
| 2480            | 2.499      | 61.727%       | -2.112            | -2.095          |
| Average         | 1.529      | 54.908%       | -2.806            | -2.616          |
| Peak            | 2.499      | 61.727%       | -2.112            | -2.095          |

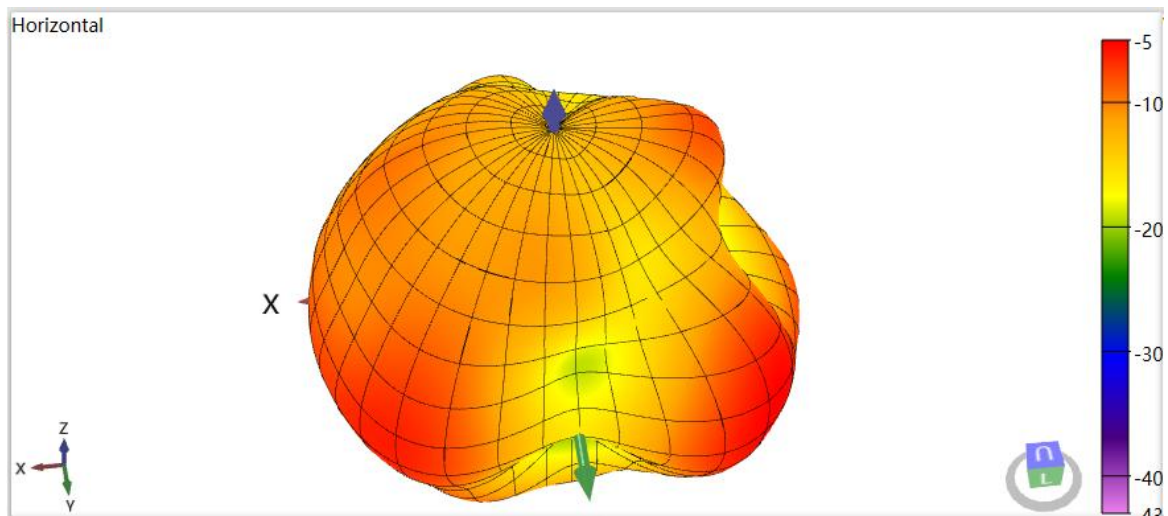
# 天线 2440MHz 2D-Theta Pattern



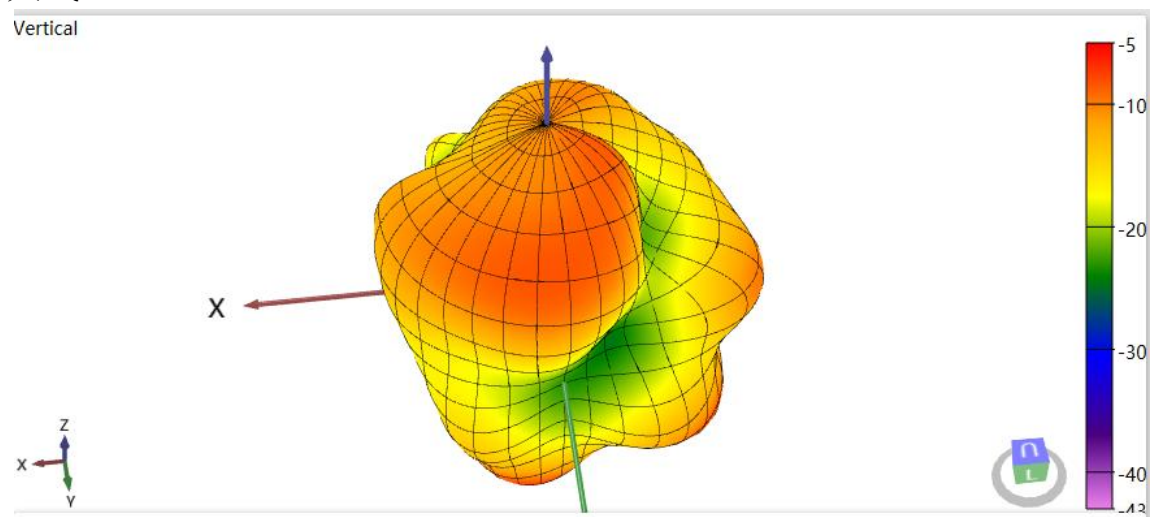
# 天线 2440MHz 2D-Phi Pattern



天线 2440MHz 3D-Horizontal Pattern



天线 2440MHz 3D-Vertical Pattern



2440MHz 3D-Total Pattern

