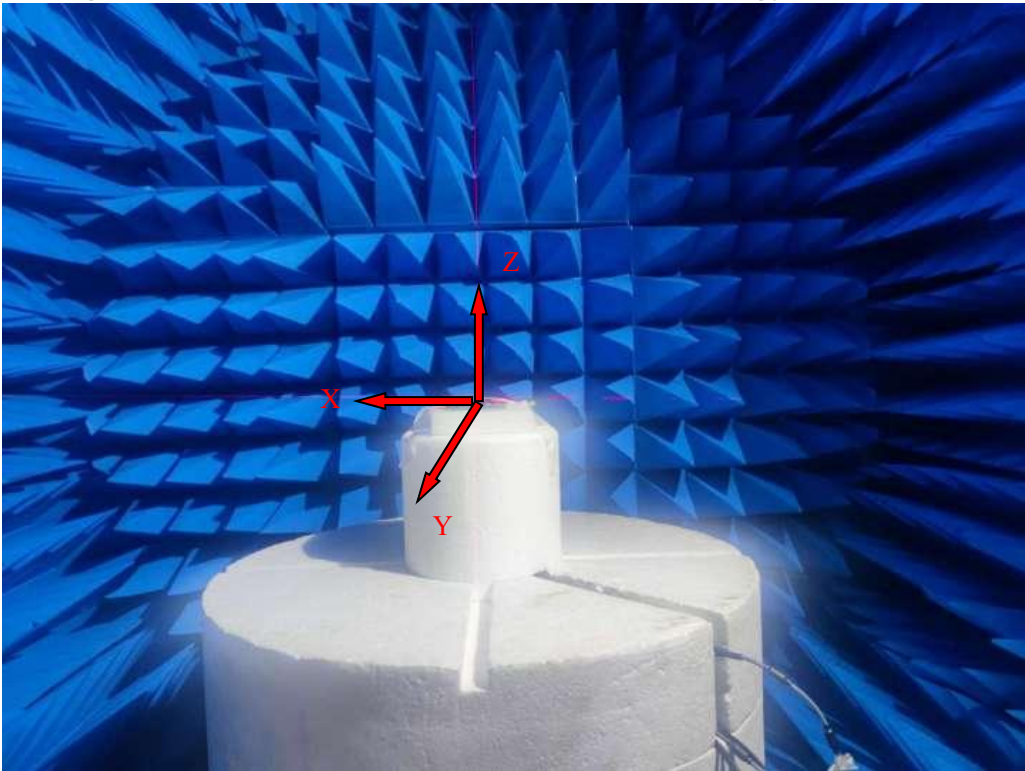


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2.4G-2.48G frequency bandOn the pcb boardPIFA  
Antenna test report

| SPECIFICATIONS     |                                     |
|--------------------|-------------------------------------|
| Frequency (MHz)    | 2400-2480                           |
| Peak Gain (dBi)    | 2.499                               |
| Average Gain (dBi) | >-4                                 |
| VSWR               | <3.2                                |
| Impedance (Ω)      | 50Ω                                 |
| Antenna Type       | Plannar Inverted F Antenna on board |
| Model              | 2.4G PCB ANT                        |

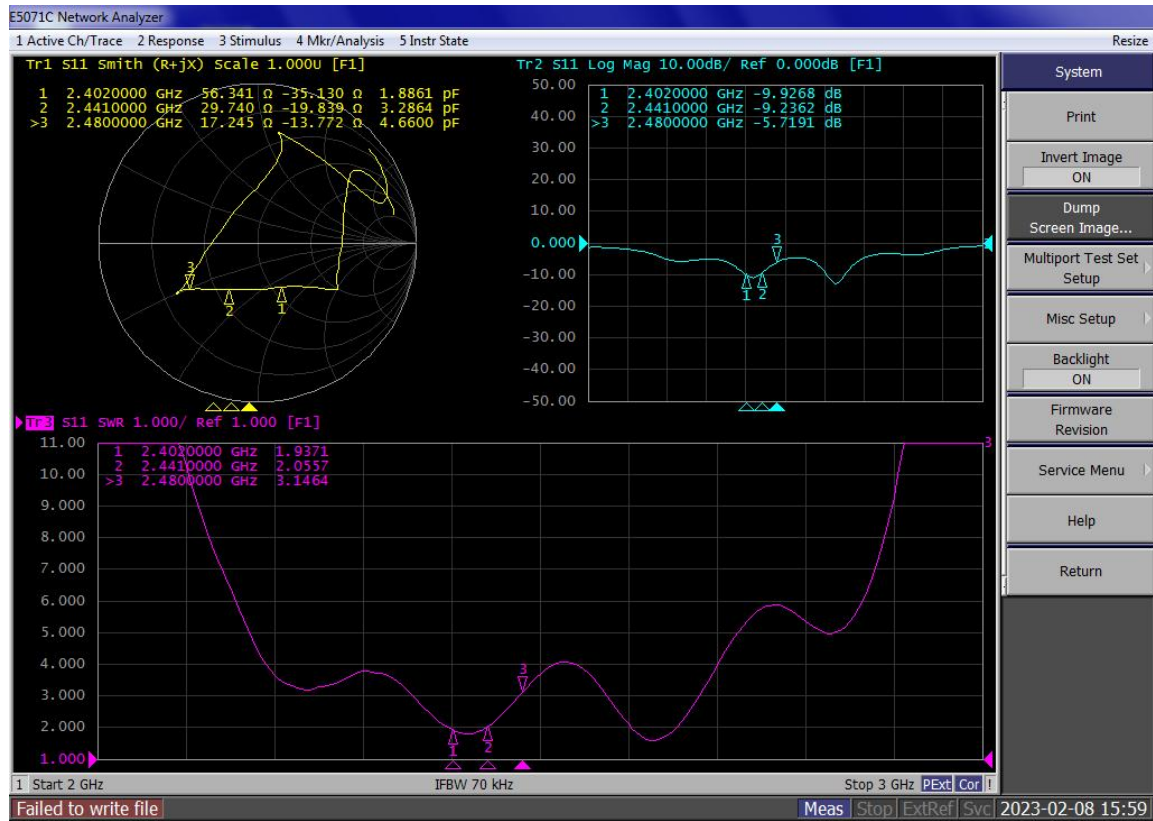
testing environment: China Science and technology darkroom test system



Antenna physical and physical dimensions



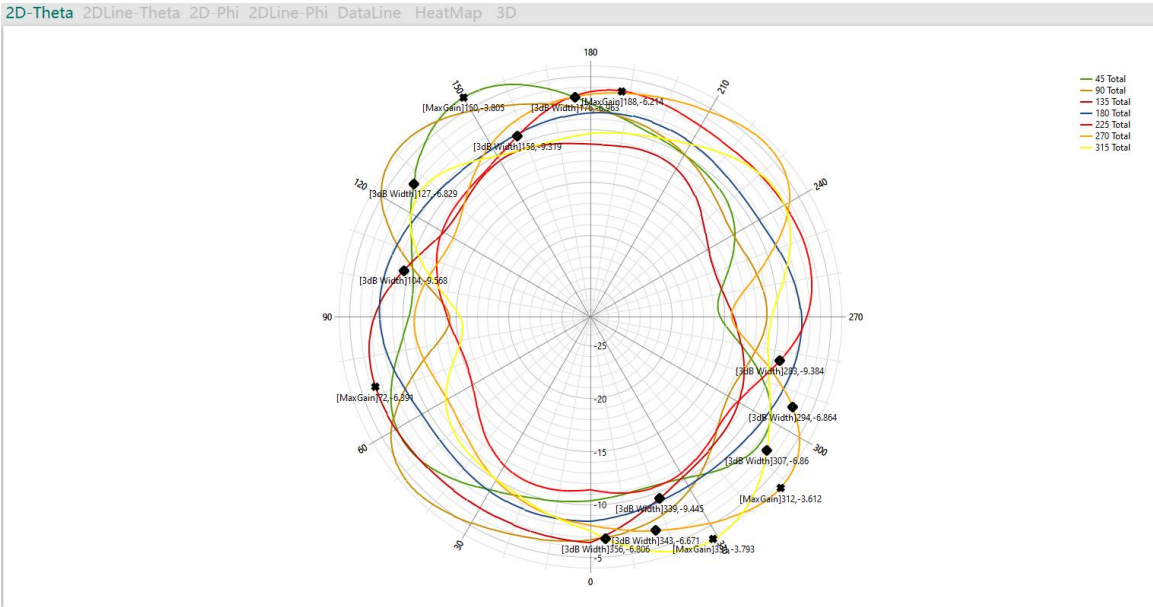
## Antenna passivity Sparameter: VSWR、Return Loss and smith chart



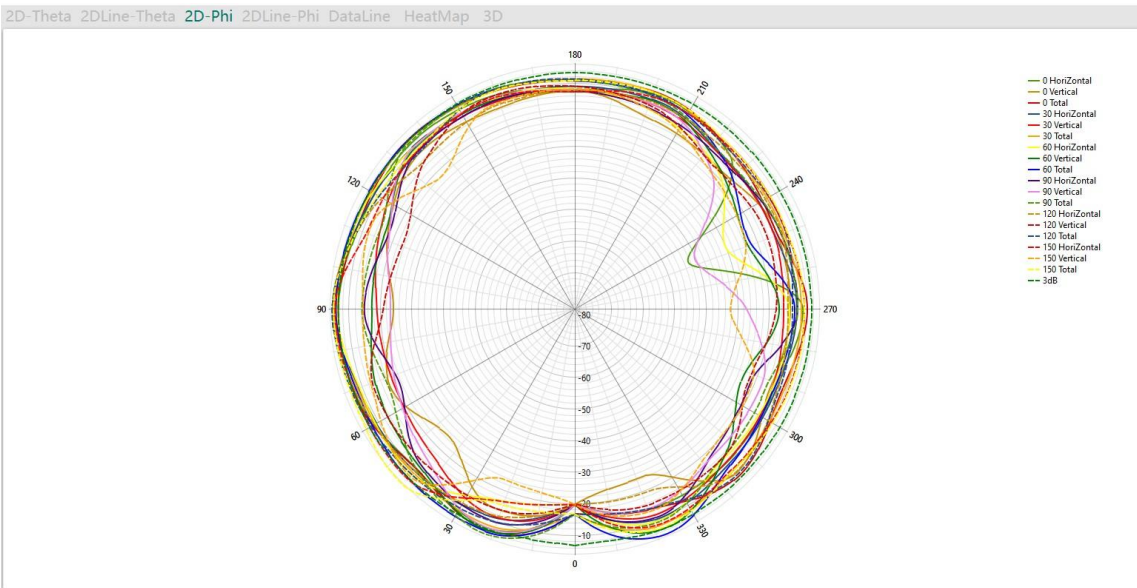
## Antenna efficiency and gain

| Frequency (MHz) | Gain (dBi) | Efficiency (%) | 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          |

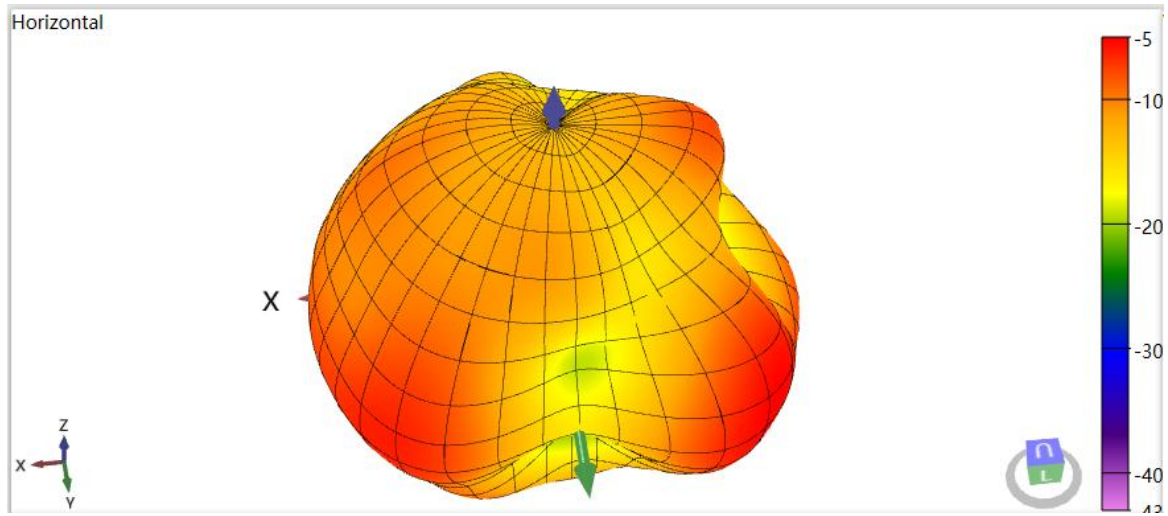
# RF 2440MHz 2D-Theta Pattern



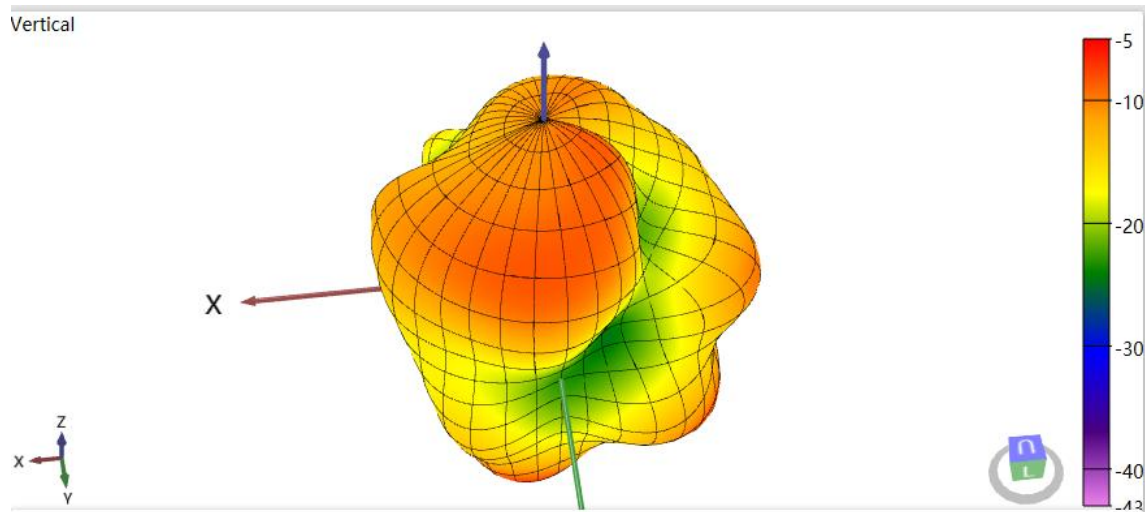
# RF 2440MHz 2D-Phi Pattern



## RF2440MHz 3D-Horizontal Pattern



## RF 2440MHz 3D-Vertical Pattern



2440MHz 3D-Total Pattern

