

## Antenna test report

|               |                   |
|---------------|-------------------|
| Product Name: | XS-01             |
| Antenna Type: | PCB antenna       |
| Writer:       | Antenna           |
| Maximum       | Gain: 2.5dBi      |
|               | Efficiency:32.96% |

## 1. General Description

|               |             |
|---------------|-------------|
| EUT Name      | XS-01       |
| Wireless type | WiFi        |
| Antenna Type  | PCB antenna |
| Dimensions    | Appendix A  |

## 2. Technical Information

|                 |                       |
|-----------------|-----------------------|
| Frequency Range | 2400MHz~2500MHz       |
| Test Frequency  | 2400,2410.....2500MHz |

## 3. Test Standards

| Identity      | Document Title                                |
|---------------|-----------------------------------------------|
| IEEE 149-1979 | IEEE Standard Test Procedures<br>for Antennas |

#### 4. Test Item

| Report Section | Description                   |
|----------------|-------------------------------|
| Appendix B     | S11/VSWR                      |
| Appendix C     | Gain and Efficiency           |
| Appendix D     | Radiation Pattern (1D and 3D) |

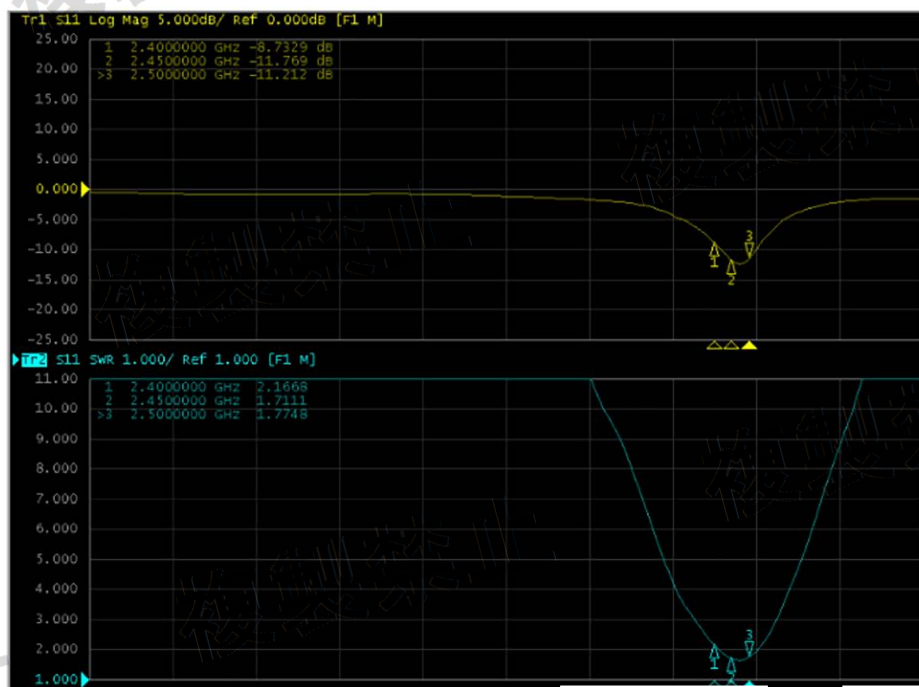
#### 5. Test Photo

| Report Section | Description      |
|----------------|------------------|
| Appendix E     | Test Setup Photo |

# Appendix A Antenna Dimension



## Appendix B S11/VSWR



Frequency (MHz)

2400

2450

2500

Return Loss

-8.73

-11.76

-11.21

VSWR

2.16

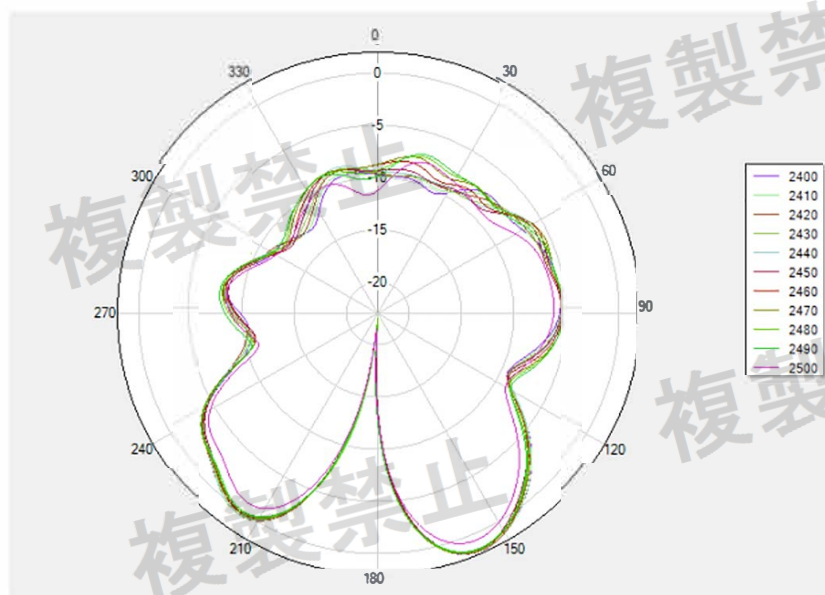
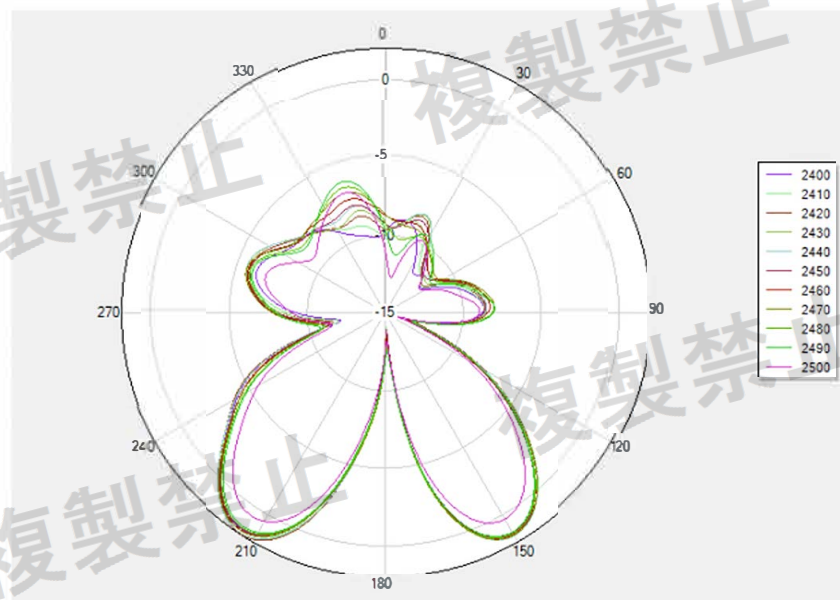
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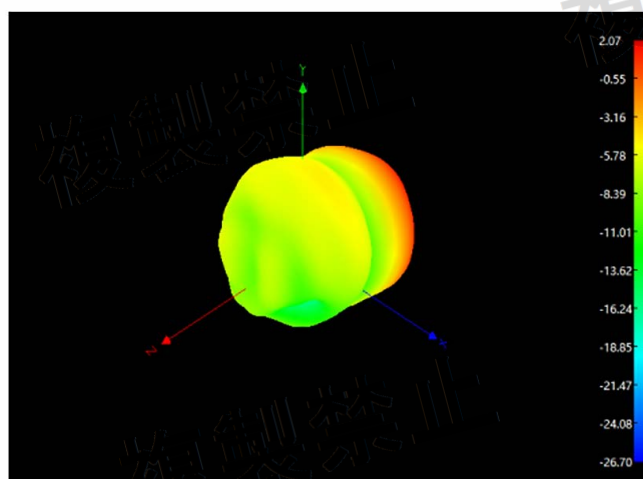
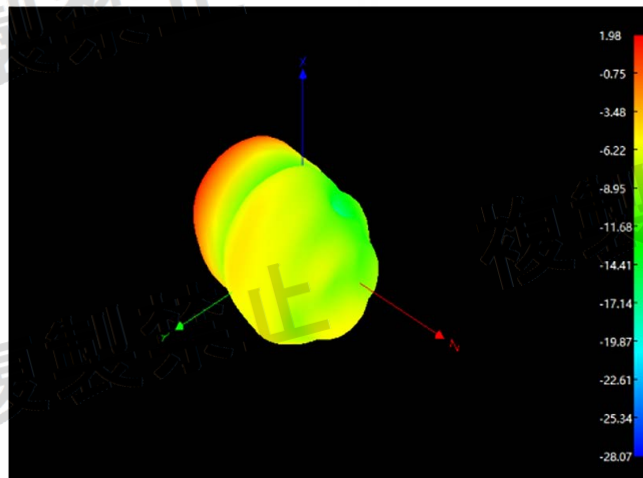
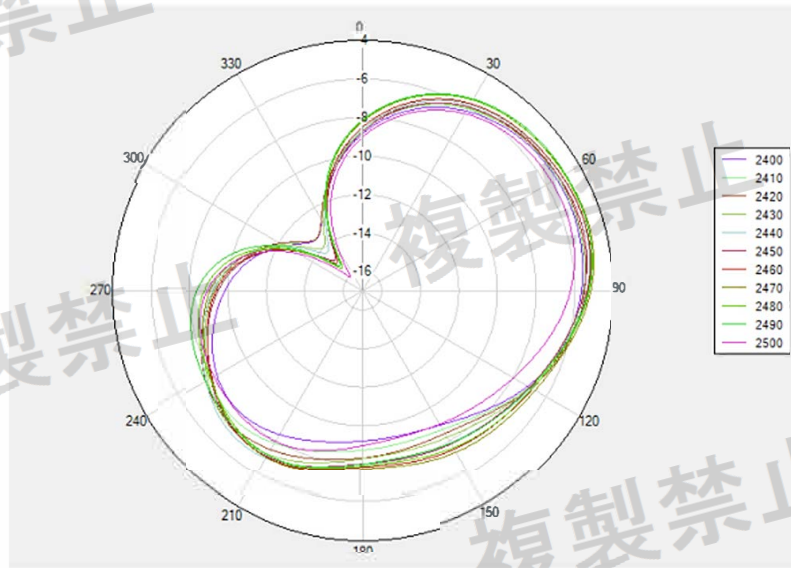
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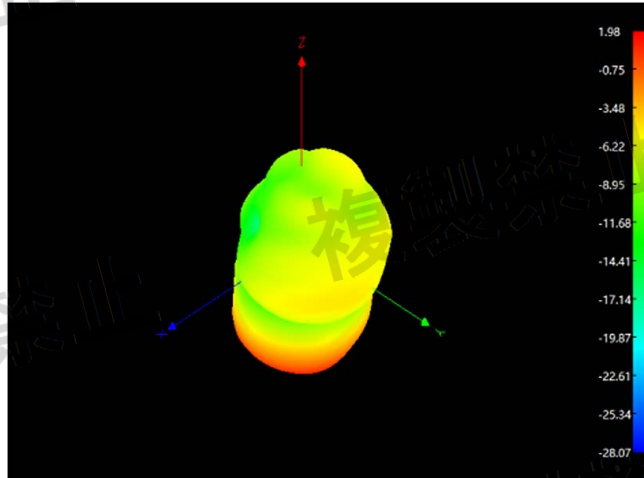
## Appendix C Gain and Efficiency

| Frequency (MHz) | Efficiency(%) | Gain (dBi) |
|-----------------|---------------|------------|
| 2400            | 32.36%        | 2.11       |
| 2410            | 32.3%         | 2.18       |
| 2420            | 32.1%         | 2.50       |
| 2430            | 32.4%         | 2.06       |
| 2440            | 32.9%         | 2.07       |
| 2450            | 30.9%         | 1.91       |
| 2460            | 30.8%         | 2.04       |
| 2470            | 30.7%         | 2.09       |
| 2480            | 31.6%         | 1.98       |
| 2490            | 30.6%         | 1.91       |
| 2500            | 30.5%         | 1.03       |

## Appendix D Radiation Pattern(1D and 3D)







**Appendix E Test Setup Photo**

