

# Antenna Specification

## Specifications

### Summary

| ITEM                 | SPEC.            |          |
|----------------------|------------------|----------|
| Model Name           | IBM 2.4 GHz      |          |
| Center Frequency     | 2400MHz          | 0.92 dBi |
|                      | 2450MHz          | 0.62 dBi |
|                      | 2500MHz          | 0.90 dBi |
| MAX. GAIN            | 0.92 dBi         |          |
| Polarization         | Horizontal       |          |
| Azimuth Beam Pattern | Omni-directional |          |
| Impedance            | 50 $\Omega$      |          |
| Antenna Length       | 6.5cm            |          |

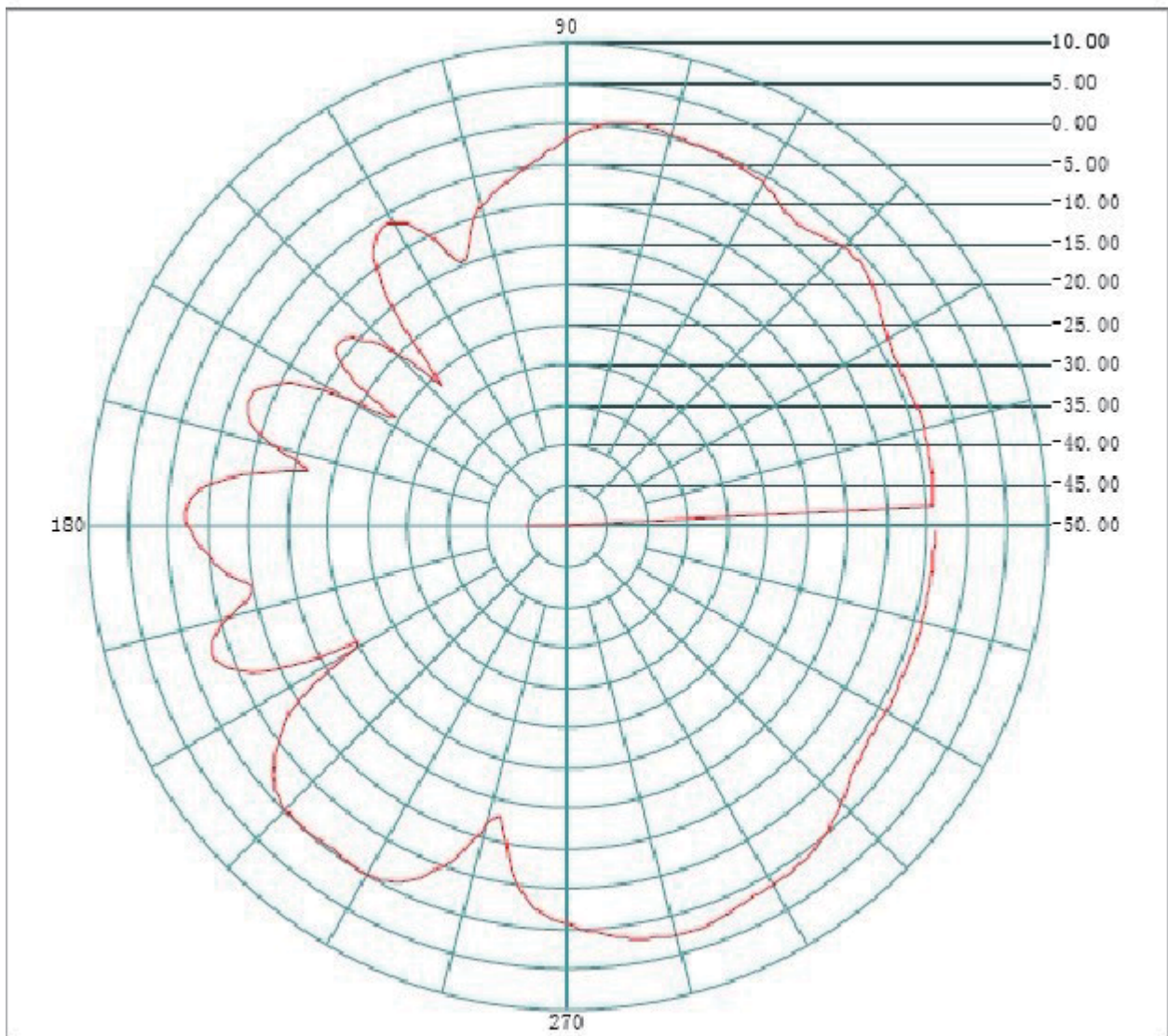
### Antenna Photo



|                                               |                                                                |
|-----------------------------------------------|----------------------------------------------------------------|
| <b>Manufacturer</b>                           | <b>Yangzhou Erfenmingyue Electronics Co., Ltd</b>              |
| <b>Address</b>                                | <b>No. 1, Hongyang Road, Touqiao Town, Guangling District,</b> |
| <b>Yangzhou City, Jiangsu Province, China</b> |                                                                |
| <b>Test Date</b>                              | <b>2023-01-02</b>                                              |
| <b>Test Instrument</b>                        | <b>vector network analyzer - R&amp;S ZVB20</b>                 |

## 1. Main antenna : 2400 MHz

### 1.1 Horizontal



Frequency(MHZ): **2400**

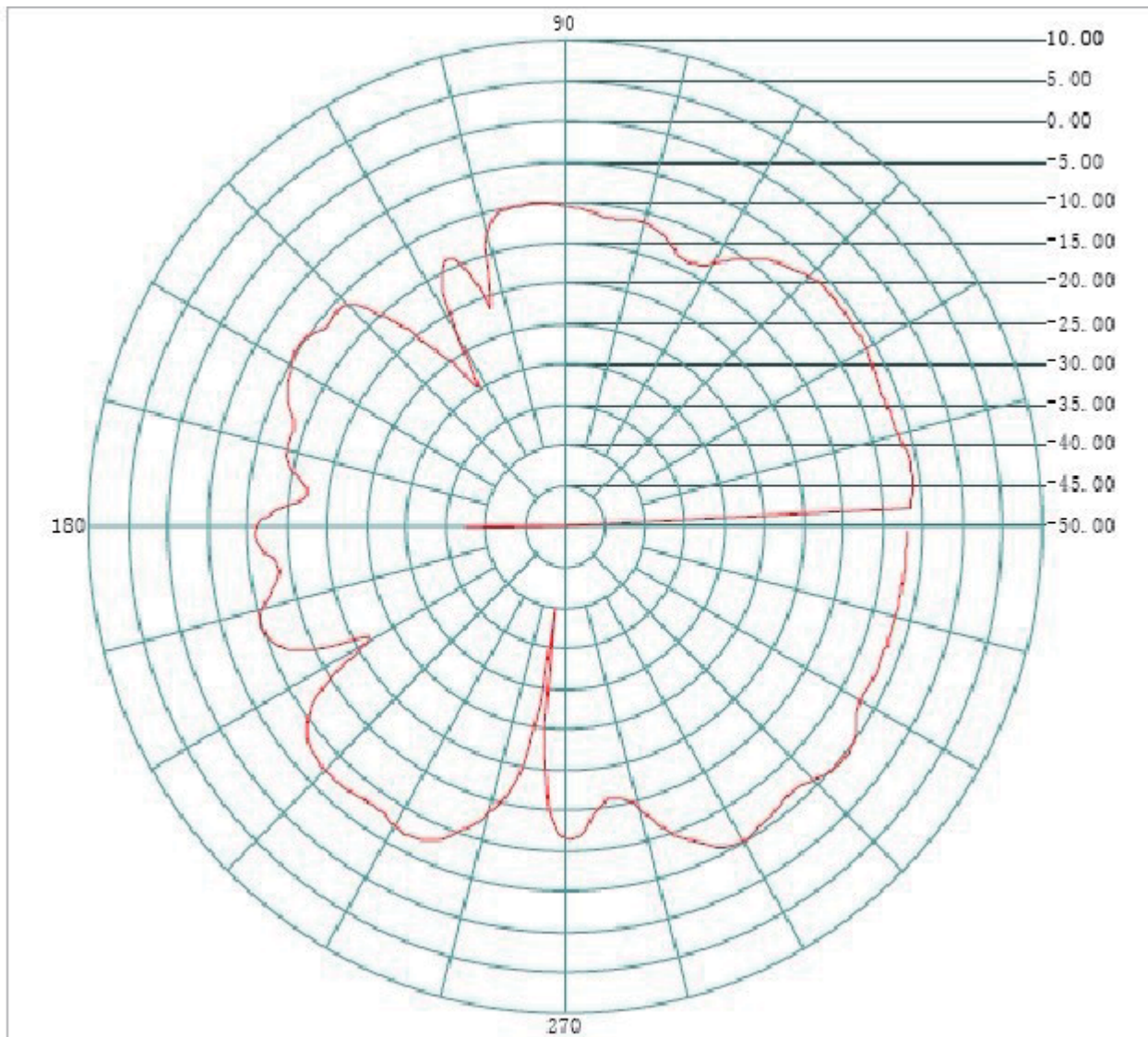
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **0.92**

Average Gain(dBi) : **-5.48**

Minimum Gain(dBi): **-55.18**

## 1.2 Vertical



Frequency(MHZ): **2400**

Antenna Polarity: **Vertical**

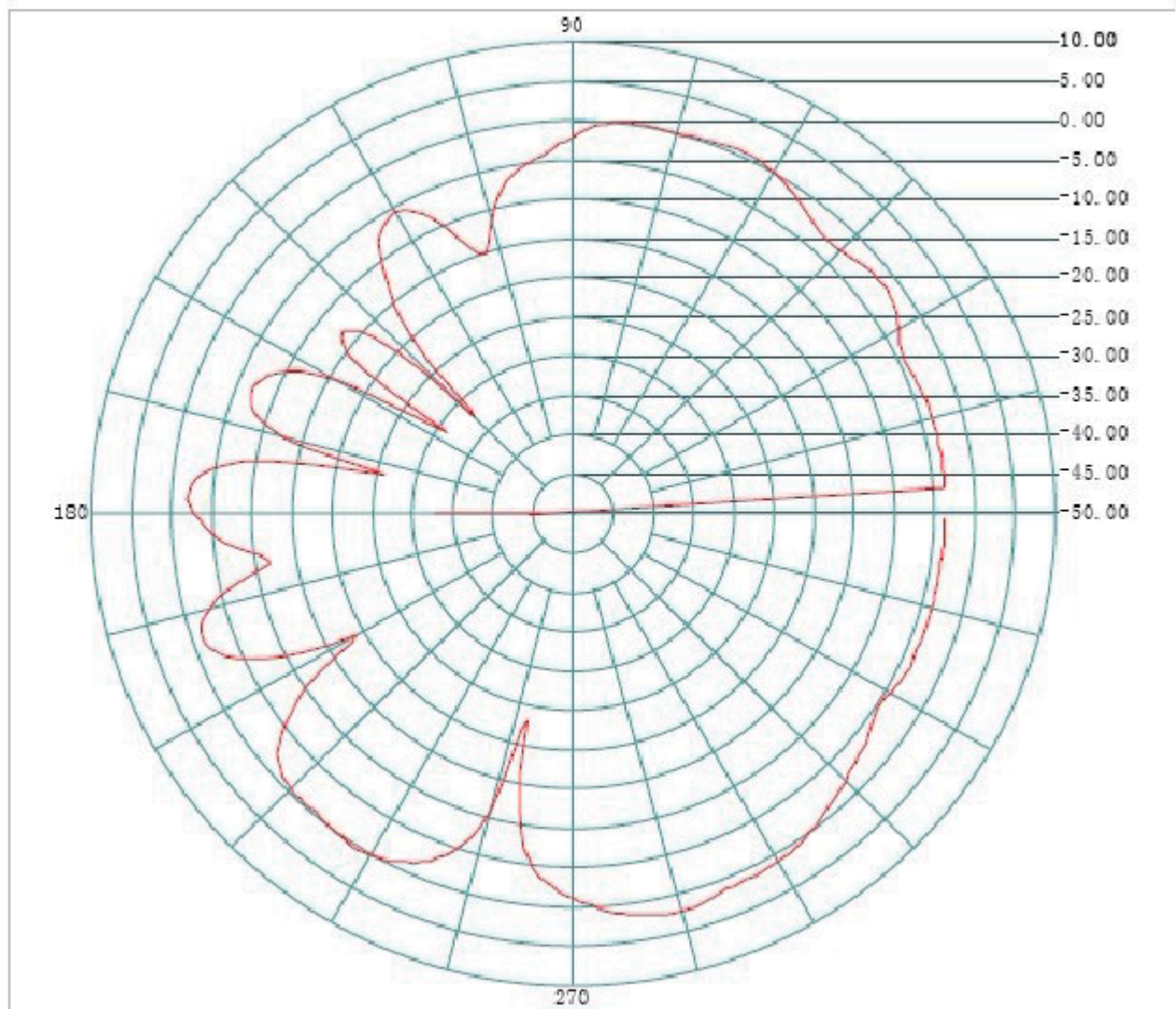
Maximum Value(dBi): **-6.31**

Average Gain(dBi) : **-11.17**

Minimum Gain(dBi): **-62.3**

## 2. Main antenna : 2450 MHz

### 2.1 Horizontal



Frequency(MHZ): **2450**

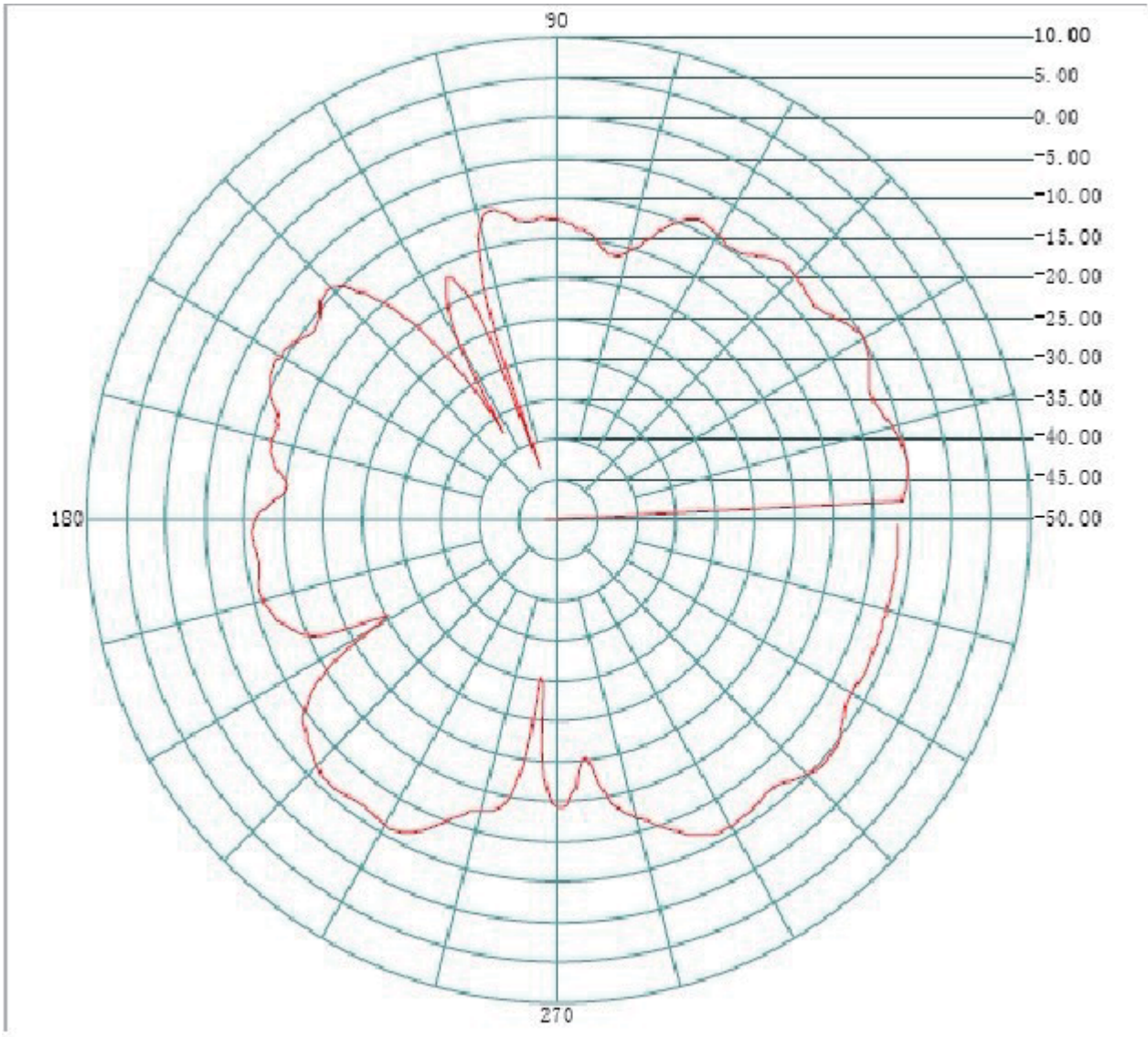
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **0.62**

Average Gain(dBi) : **-5.57**

Minimum Gain(dBi): **-66.98**

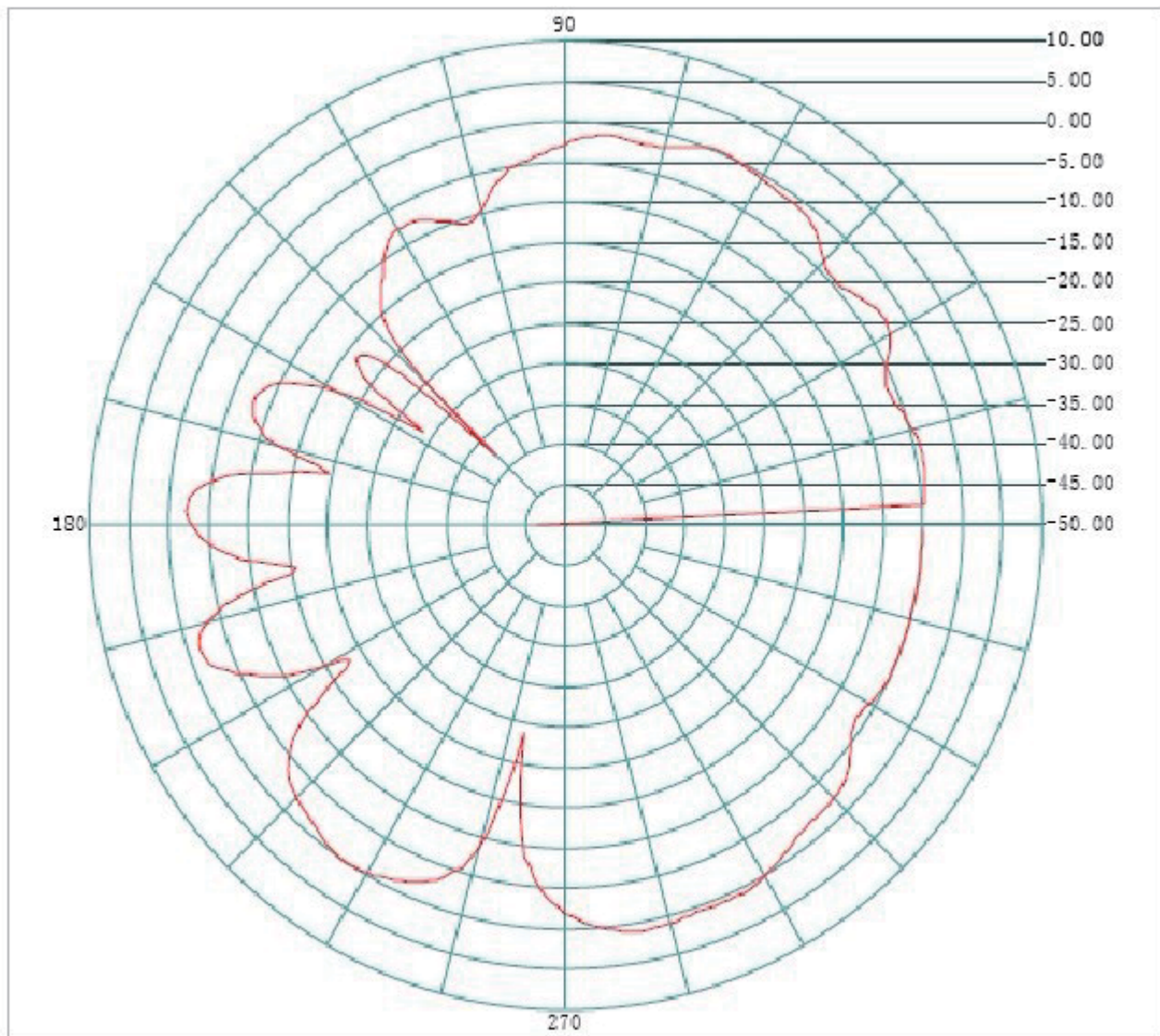
2.2 Vertical



|                     |       |                   |          |
|---------------------|-------|-------------------|----------|
| Frequency(MHZ):     | 2450  | Antenna Polarity: | Vertical |
| Maximum Value(dBi): | -4.57 |                   |          |
| Average Gain(dBi) : | -9.81 |                   |          |
| Minimum Gain(dBi):  | -51.4 |                   |          |

## 2. Main antenna : 2500 MHz

### 2.1 Horizontal



Frequency(MHZ): **2500**

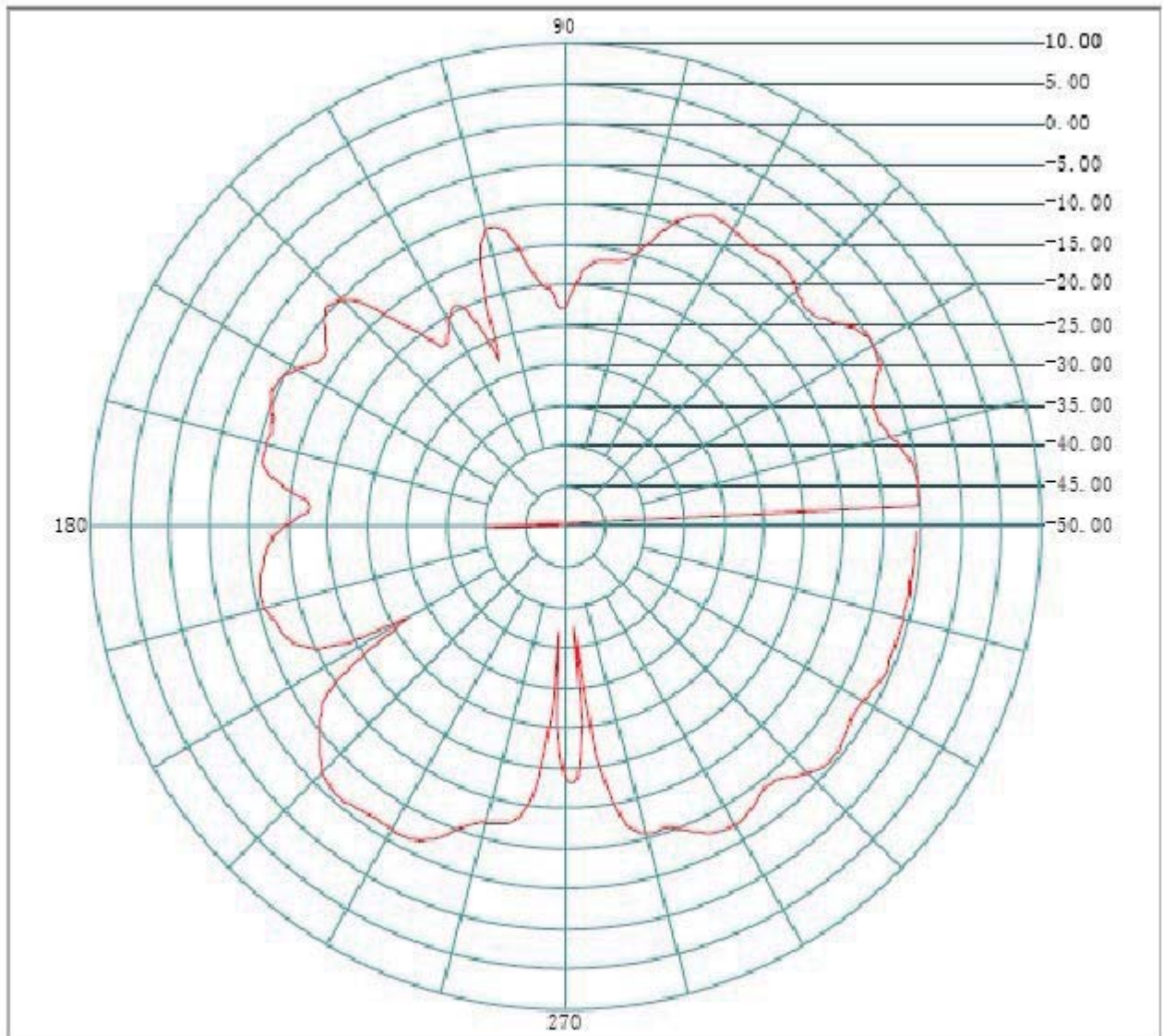
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **0.90**

Average Gain(dBi) : **-5.34**

Minimum Gain(dBi): **-53.4**

## 2.2 Vertical



Frequency(MHZ): **2500**

Antenna Polarity: **Vertical**

Maximum Value(dBi): **-5.23**

Average Gain(dBi) : **-11.06**

Minimum Gain(dBi): **-60.00**