# Antenna Specification

## Specifications

Summary

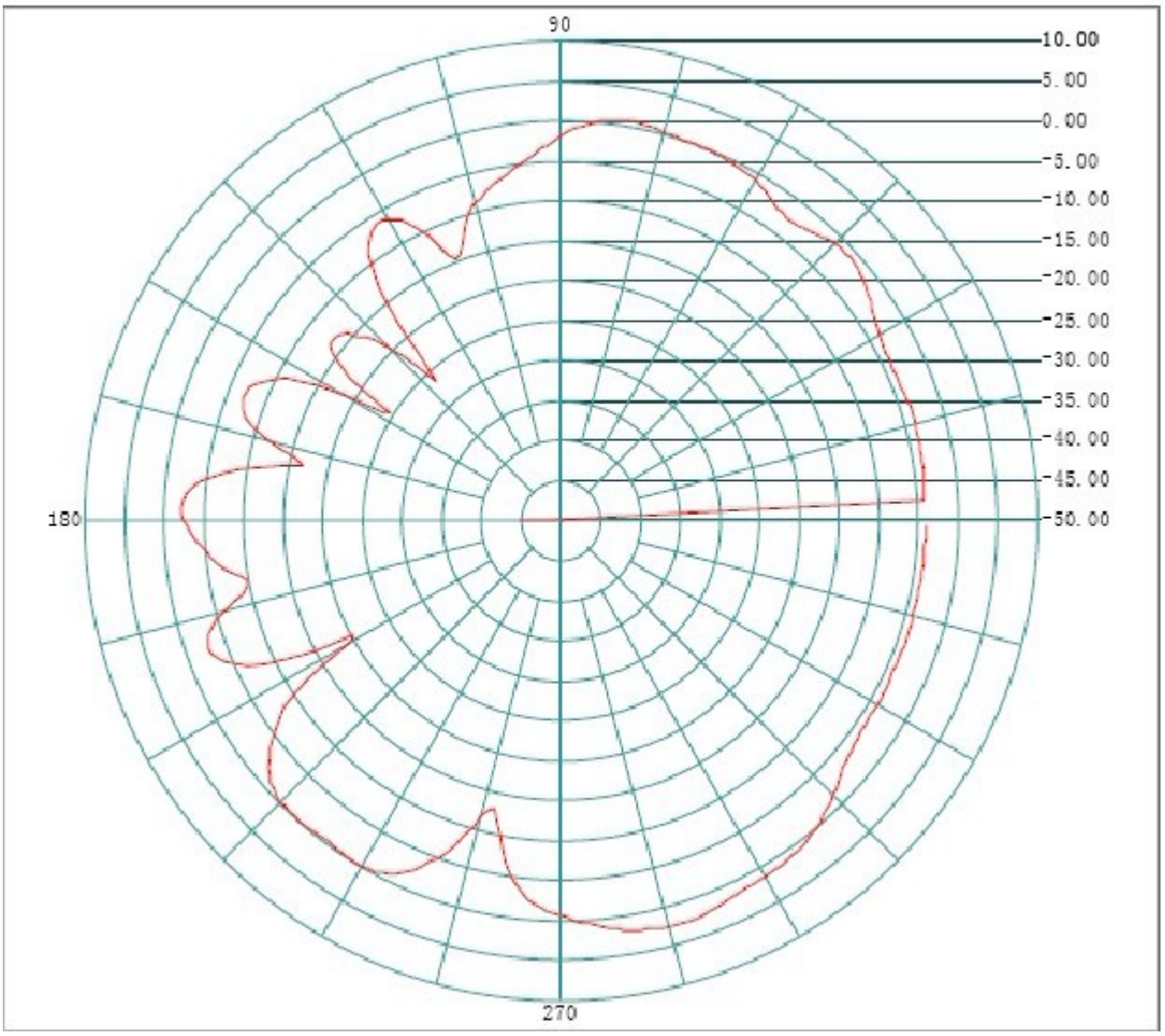
| ITEM | SPEC. | |
|---|---|---|
| Model Name | IBM 0.9 GHz | |
| Center Frequency | 902 MHz<br>915 MHz<br>928 MHz | 0.90 dBi<br>0.97dBi<br>1.00 dBi |
| MAX. GAIN | 1.00 dBi | |
| Polarization | Horizontal | |
| Azimuth Beam Pattern | Omni-directional | |
| Impedance | 50 Ω | |
| Antenna Length | 25mm | |

**Test Date** **2022-05-09**

**Test Instrument** **vector network analyzer - R&S ZVB20**

## 1. Main antenna : 902 MHz

### 1.1 Horizontal



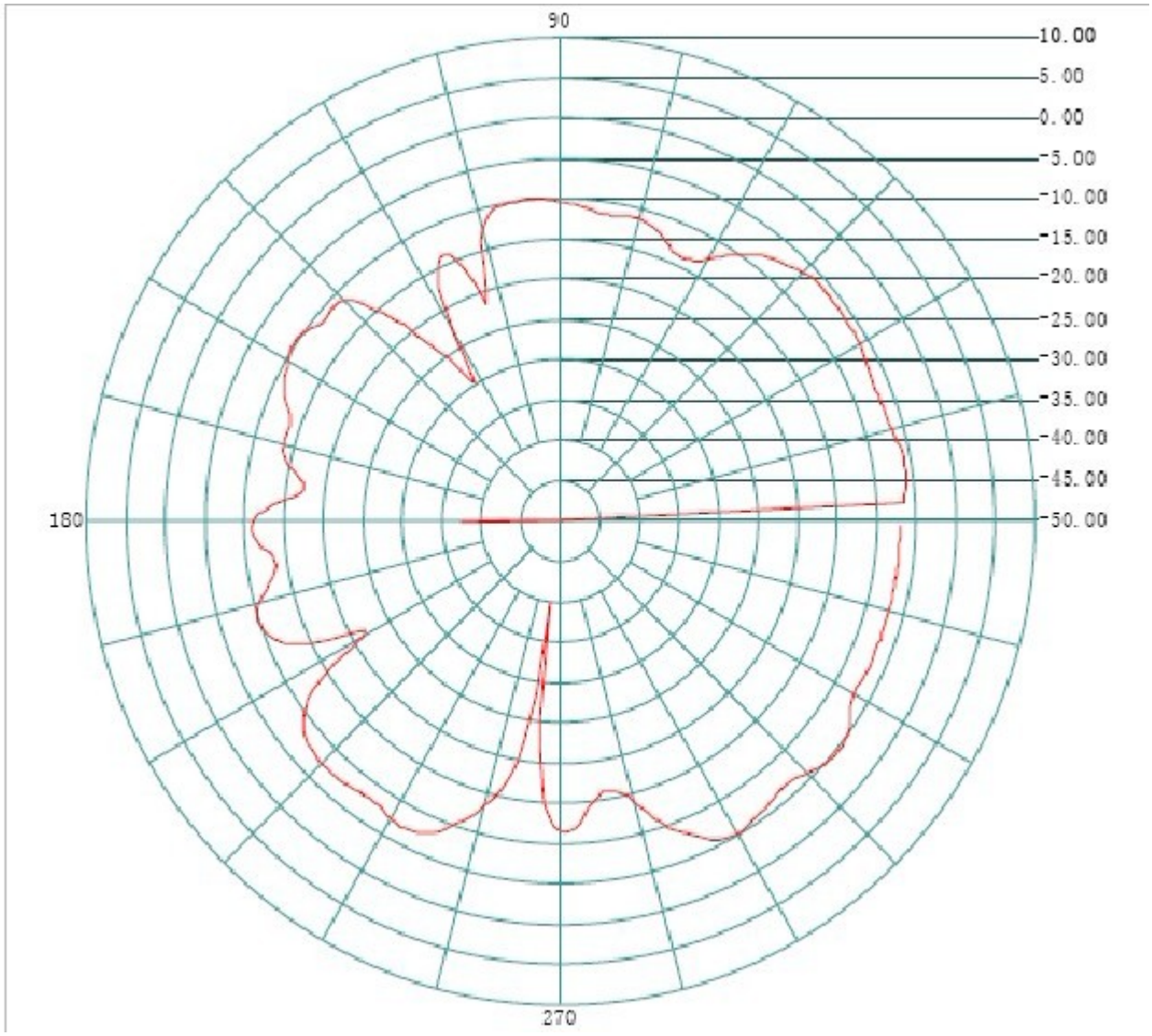

Frequency(MHZ): **902** Antenna Polarity: **Horizontal**

Maximum Value(dBi): **0. 90**

Average Gain(dBi) : **0.48**

Minimum Gain(dBi): **-4.18**

## 1.2 Vertical




Frequency(MHZ): **915** Antenna Polarity: **Vertical**

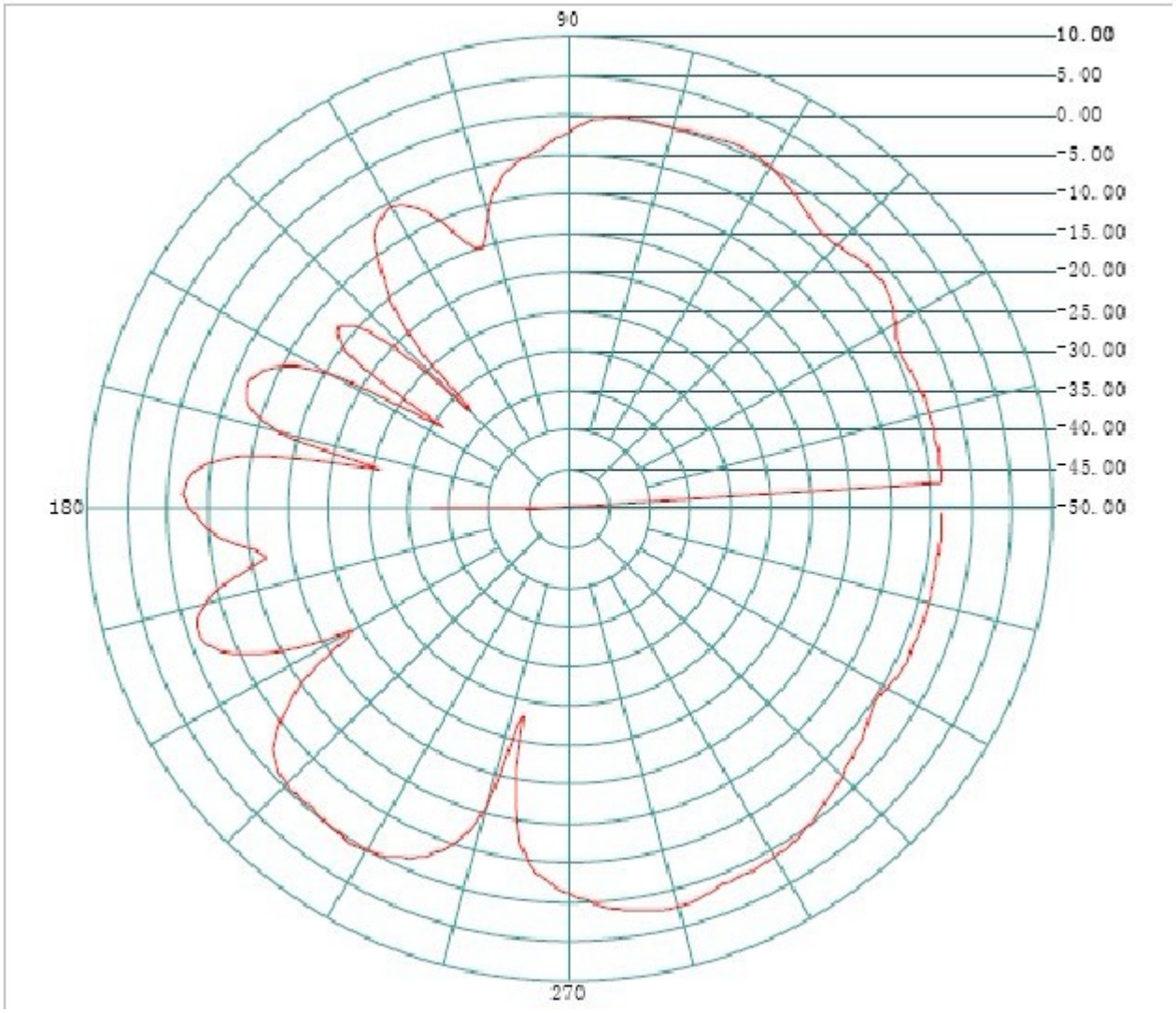
Maximum Value(dBi): **0.87**

Average Gain(dBi) : **0.8**

Minimum Gain(dBi): **-12.3**

## 2. Main antenna : 915 MHz

### 2.1 Horizontal



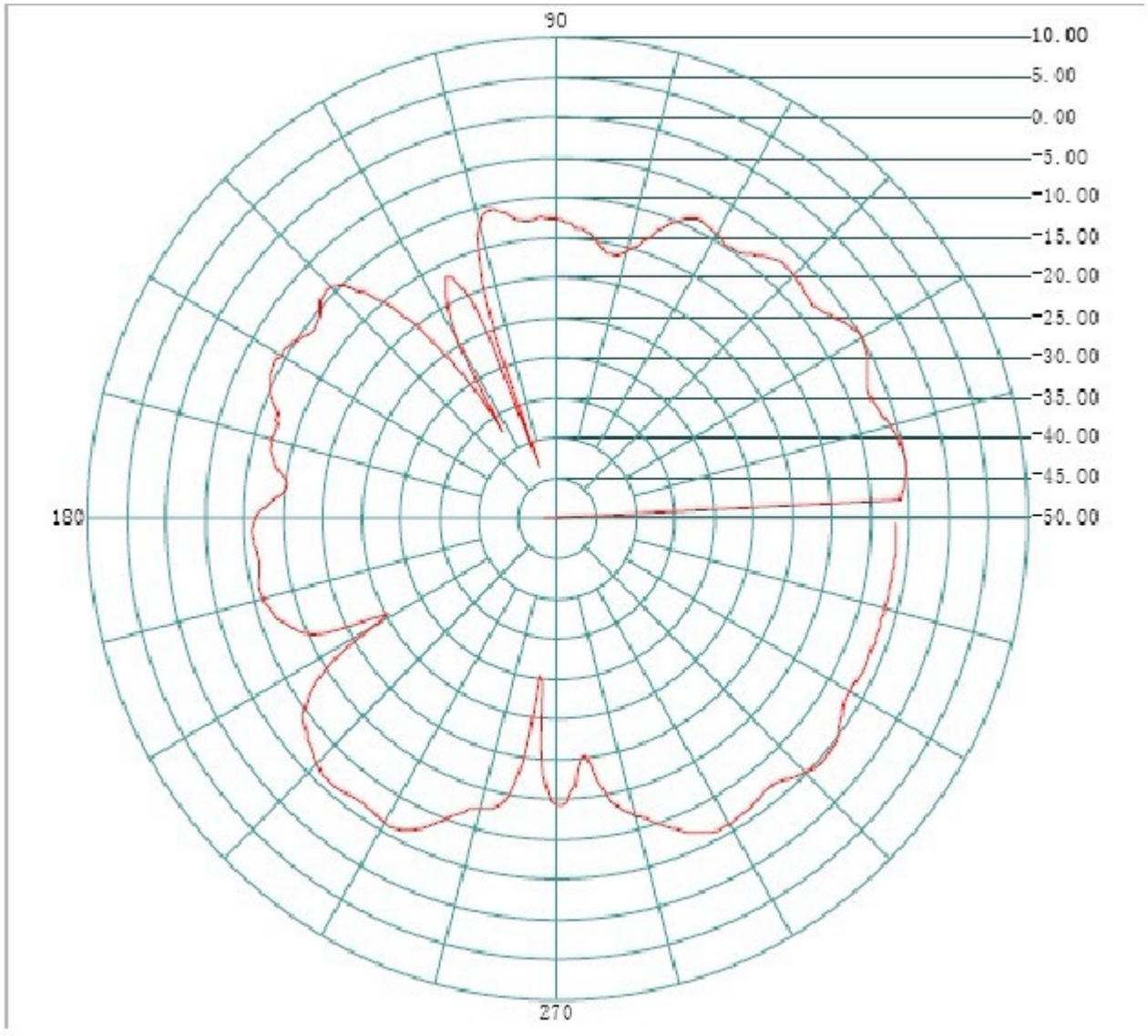

Frequency(MHZ): **915** Antenna Polarity: **Horizontal**

Maximum Value(dBi): 0.97

Average Gain(dBi) : **0.74**

Minimum Gain(dBi): **-6.98**

## 2.2 Vertical




Frequency(MHZ): **915** Antenna Polarity: **Vertical**

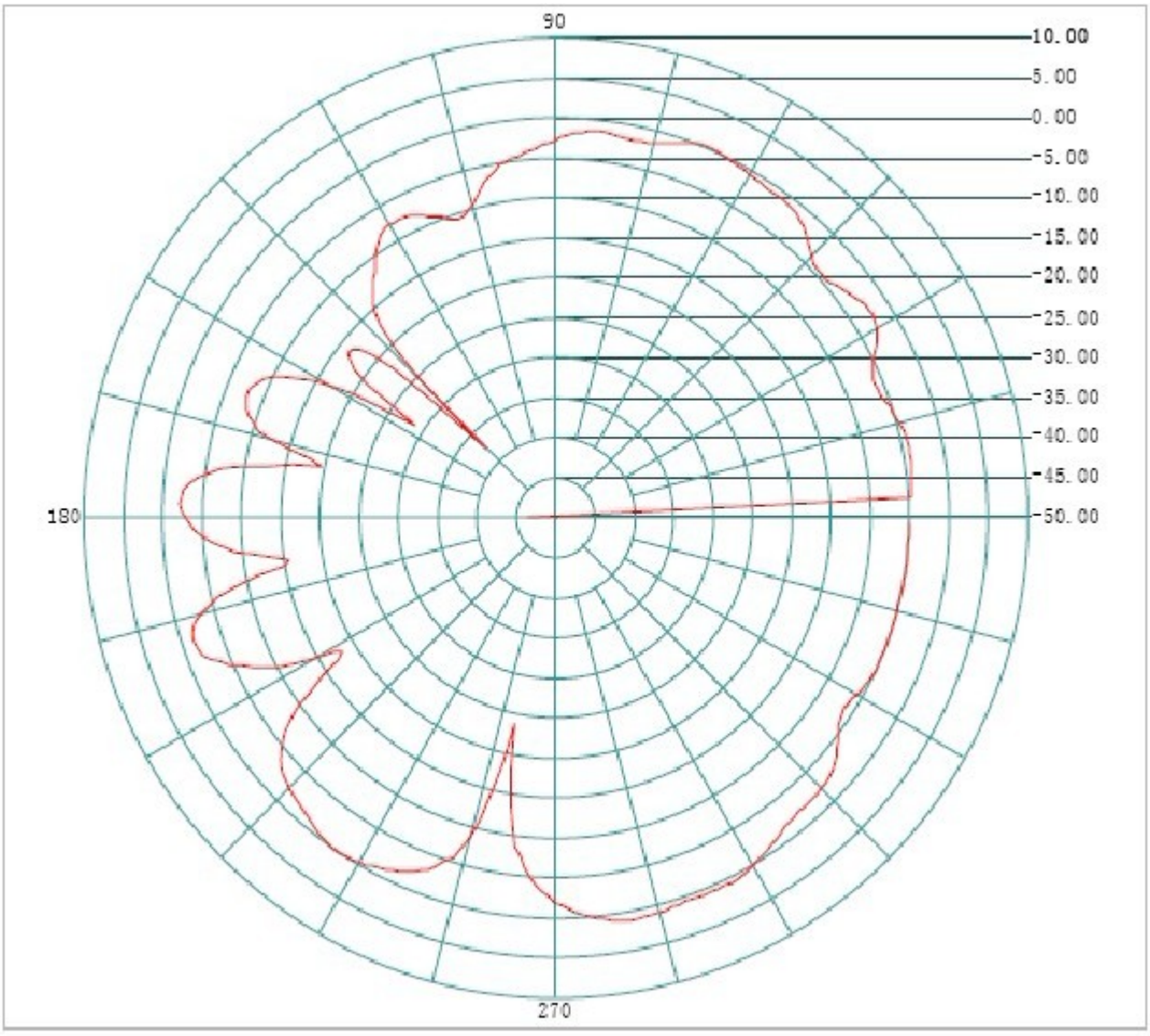
Maximum Value(dBi): **0.88**

Average Gain(dBi) : **0.81**

Minimum Gain(dBi): **-7.4**

## 2. Main antenna : 928 MHz

### 2.1 Horizontal



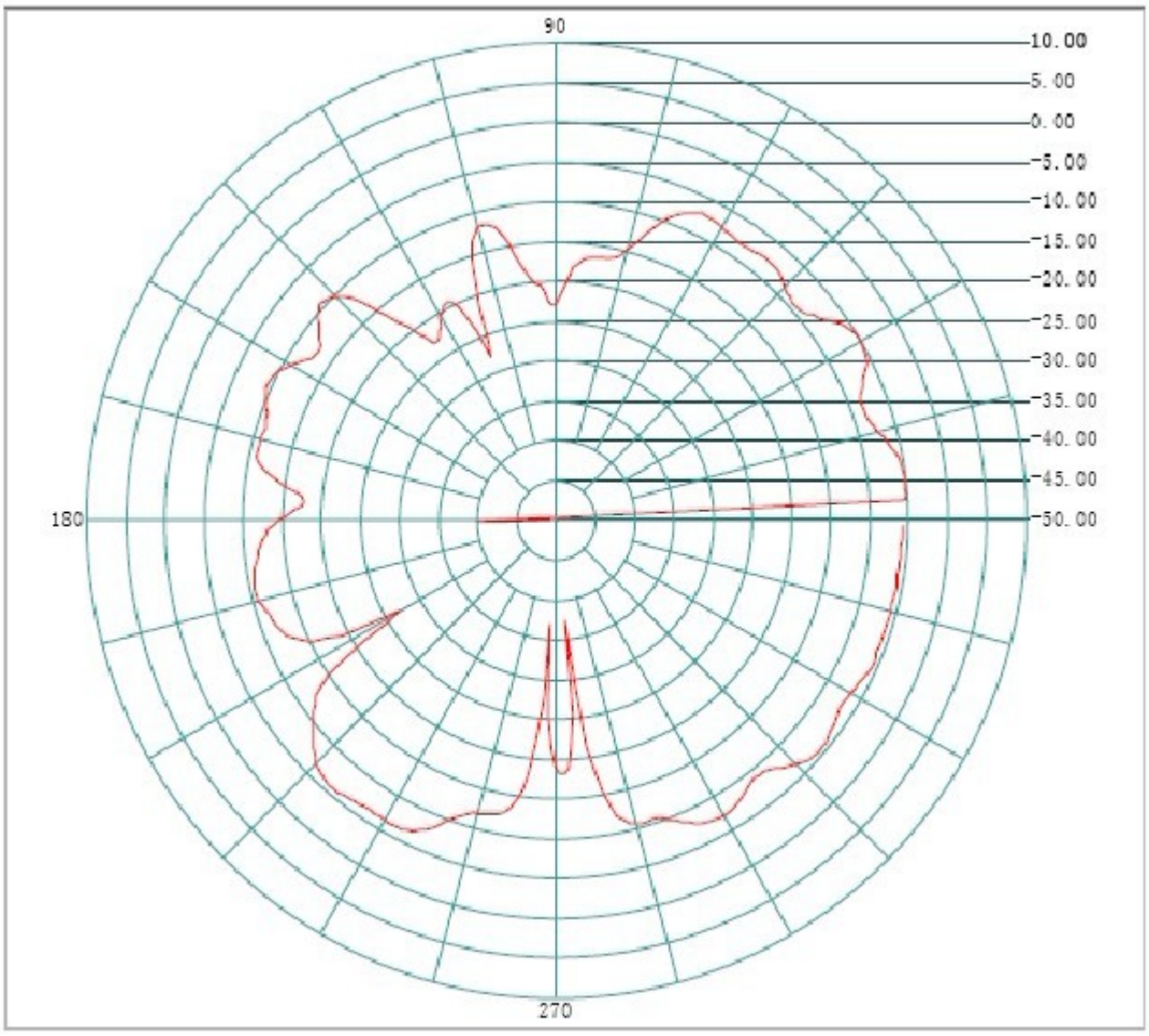

Frequency(MHZ): **928** Antenna Polarity: **Horizontal**

Maximum Value(dBi): **1.00**

Average Gain(dBi) : **0.92**

Minimum Gain(dBi): **-5.4**

## 2.2 Vertical




Frequency(MHZ): **928** Antenna Polarity: **Vertical**

Maximum Value(dBi): **0.95**

Average Gain(dBi) : **0.91**

Minimum Gain(dBi): **-10.00**

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