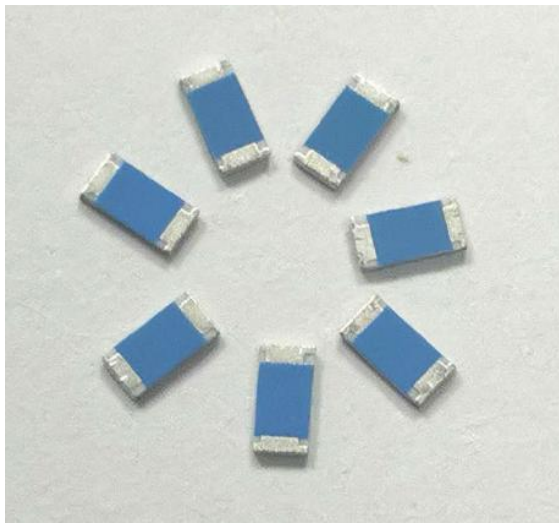


Antenna spec

1. Antenna Description:

Antenna type	2.4GHz 3216 Chip Antenna
Model	AAN3216F0P2G45
Frequency range	2400MHz~2480MHz
Manufacturer	Shenzhen Dingshe technology Co., LTD
Address	Building A9, Yintian Industrial Zone, Xixiang Street, Baoan District, Shenzhen

2. Antenna Photo:



Part number

AAN 3216 - F0 P 2G45
(1) (2) (3) (4) (5)

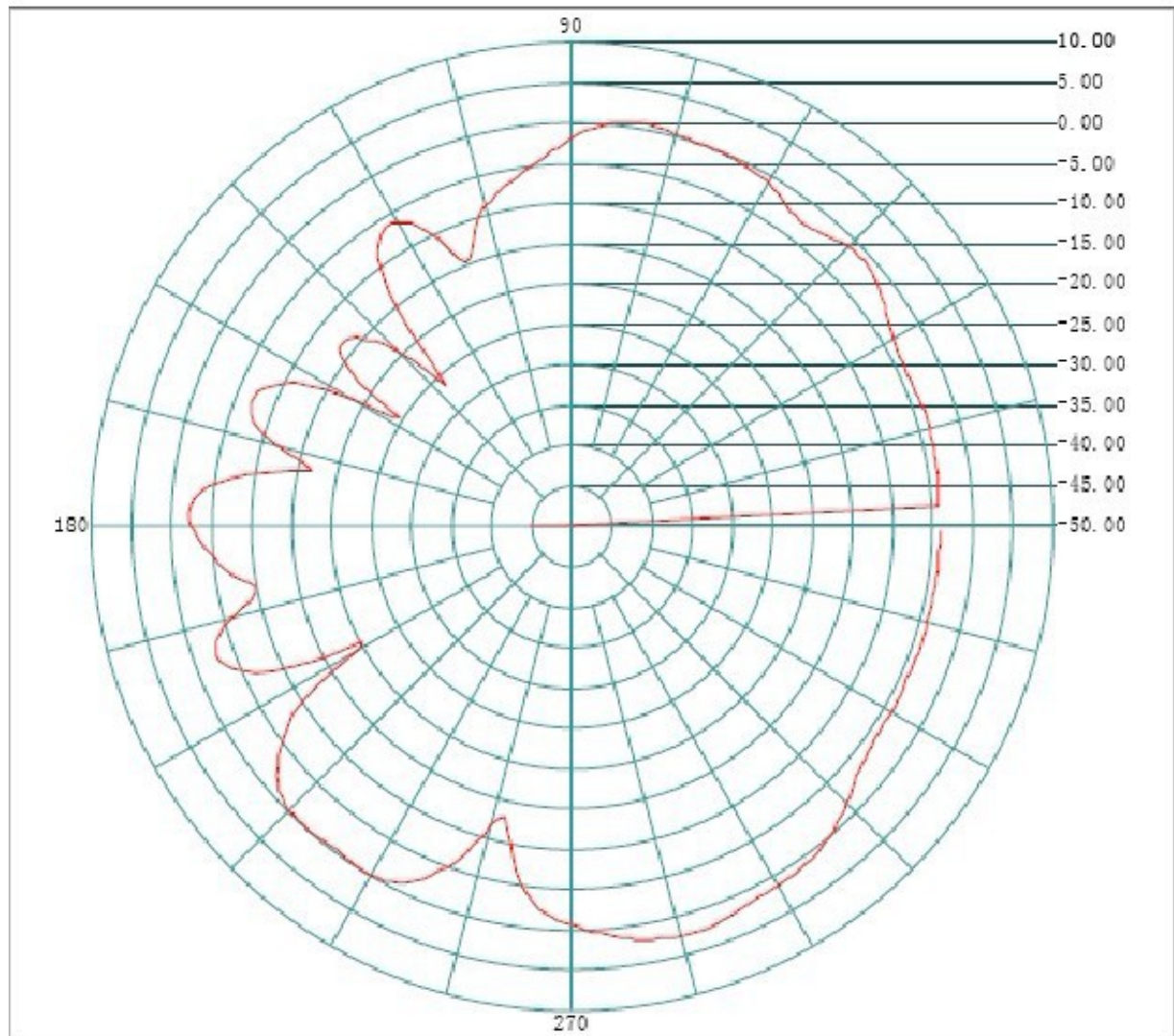
(1)Product Type	Chip Antenna
(2)Size Code	3.2x1.6mm
(3)Type Code	F0
(4)Packing	Paper Tape
(5)Frequency	2.45GHz

3. Antenna Efficiency and Gain:

Frequency(MHz)	2400	2440	2480
Efficiency (%)	66.72	69.43	74.81
Gain(dBi)	2.16	2.37	2.58

4. 2402 MHz

4.1 Horizontal



Frequency(MHZ): **2402**

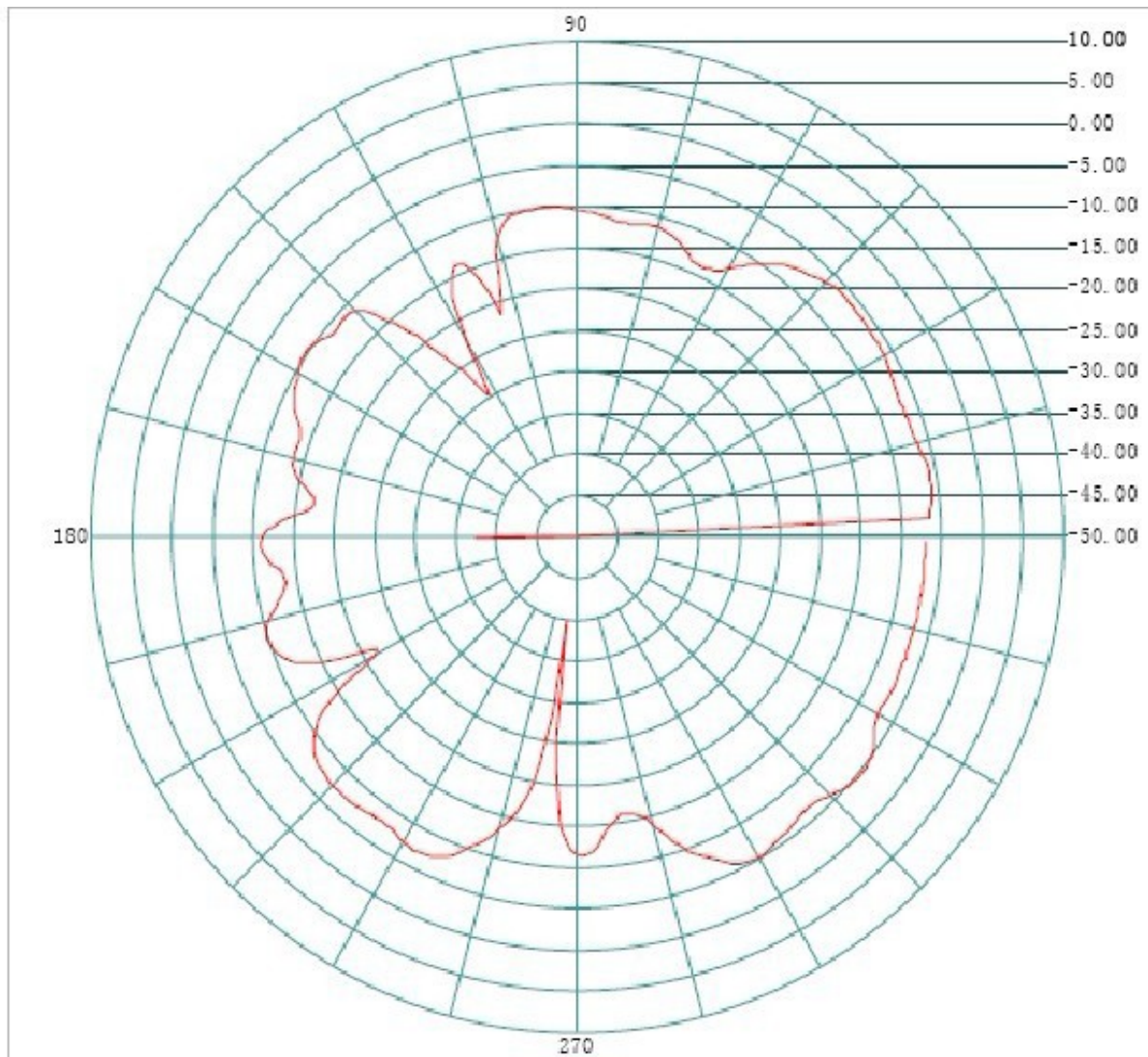
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **2.16**

Average Gain(dBi) : **-2.48**

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

4.2 Vertical



Frequency(MHZ): **2402**

Antenna Polarity: **Vertical**

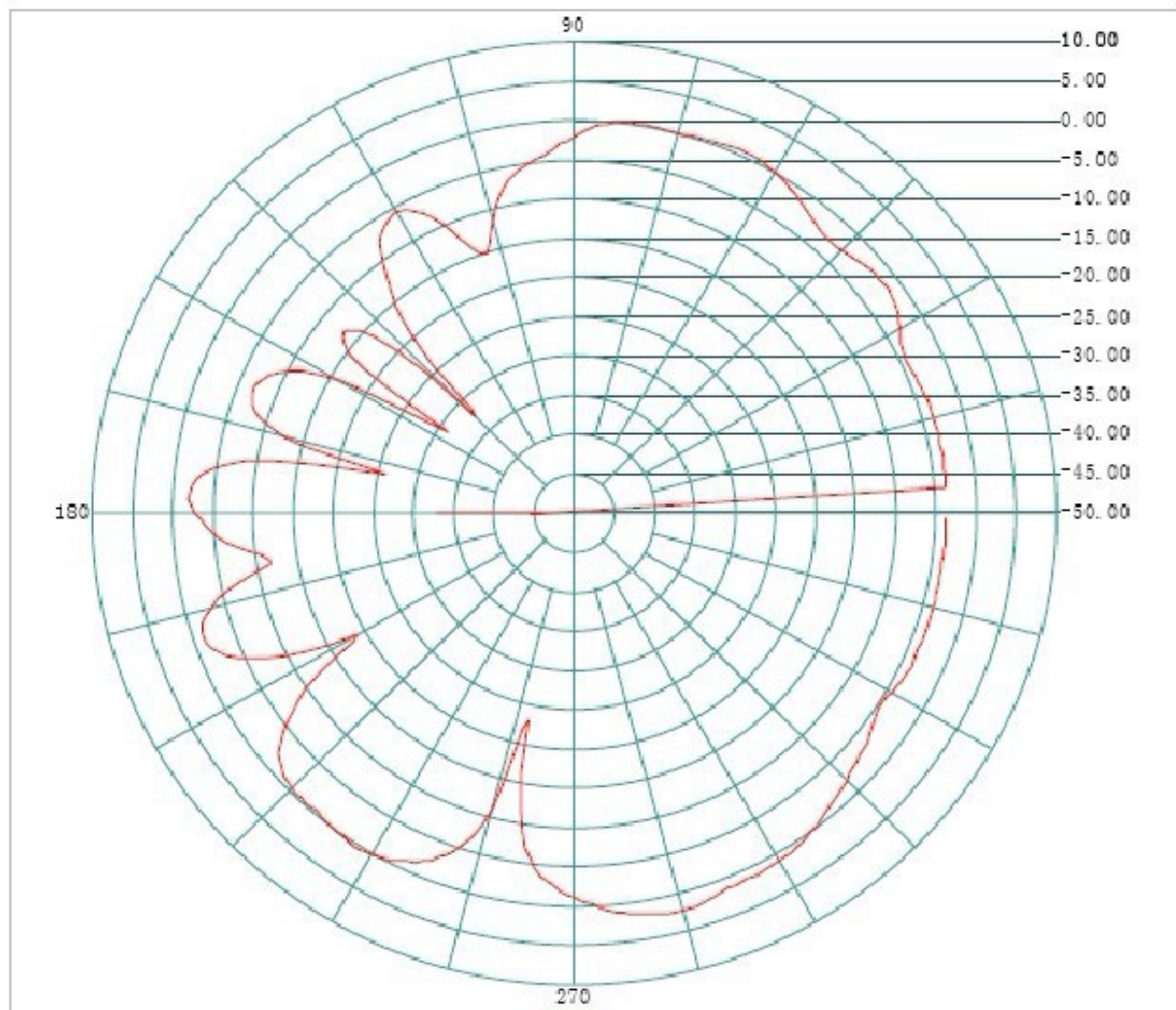
Maximum Value(dBi): **-4.51**

Average Gain(dBi) : **-8.98**

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

5. 2440 MHz

5.1 Horizontal



Frequency(MHZ): **2440**

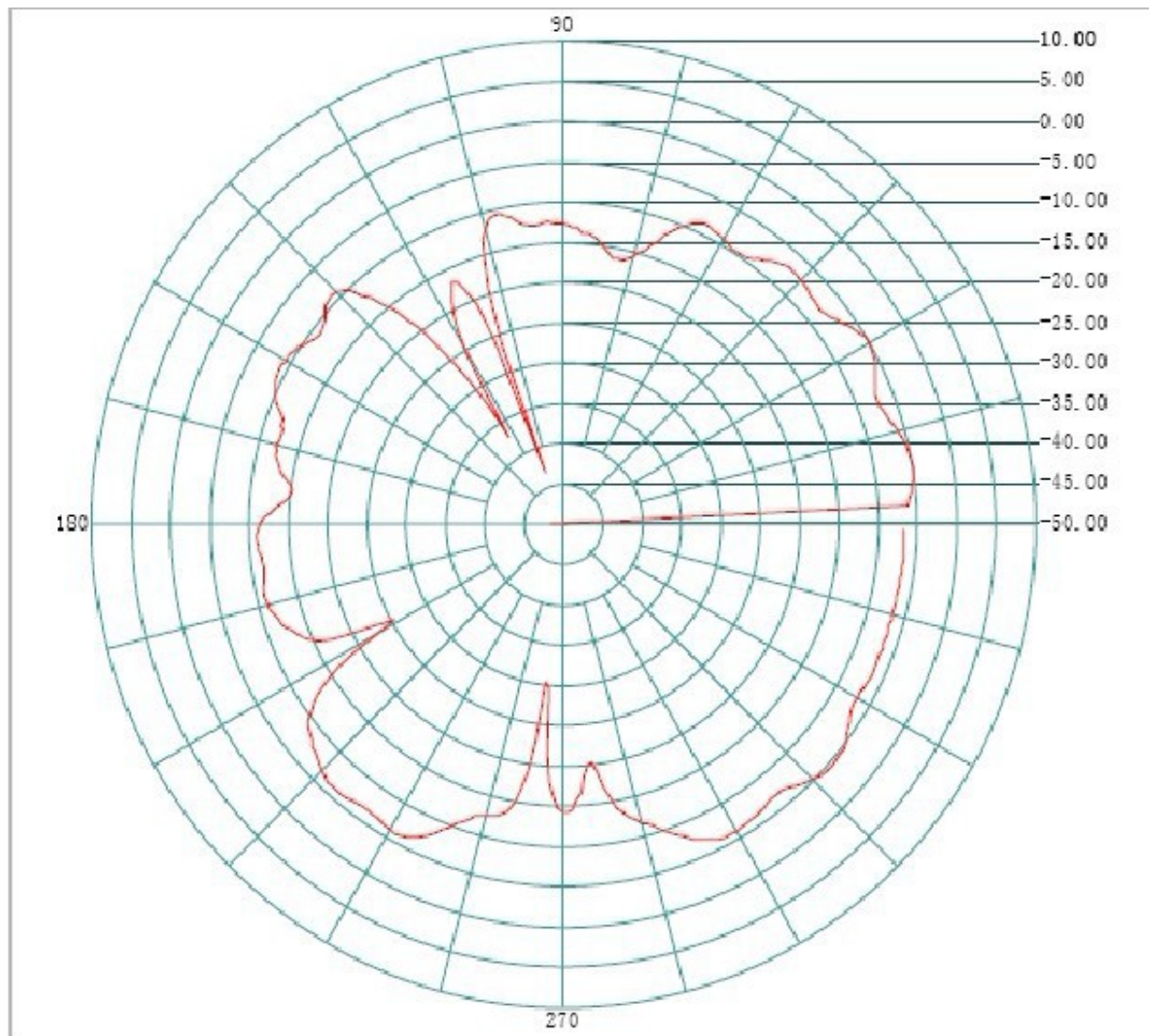
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **2.37**

Average Gain(dBi) : **-2.54**

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

5.2 Vertical



Frequency(MHZ): **2440**

Antenna Polarity: **Vertical**

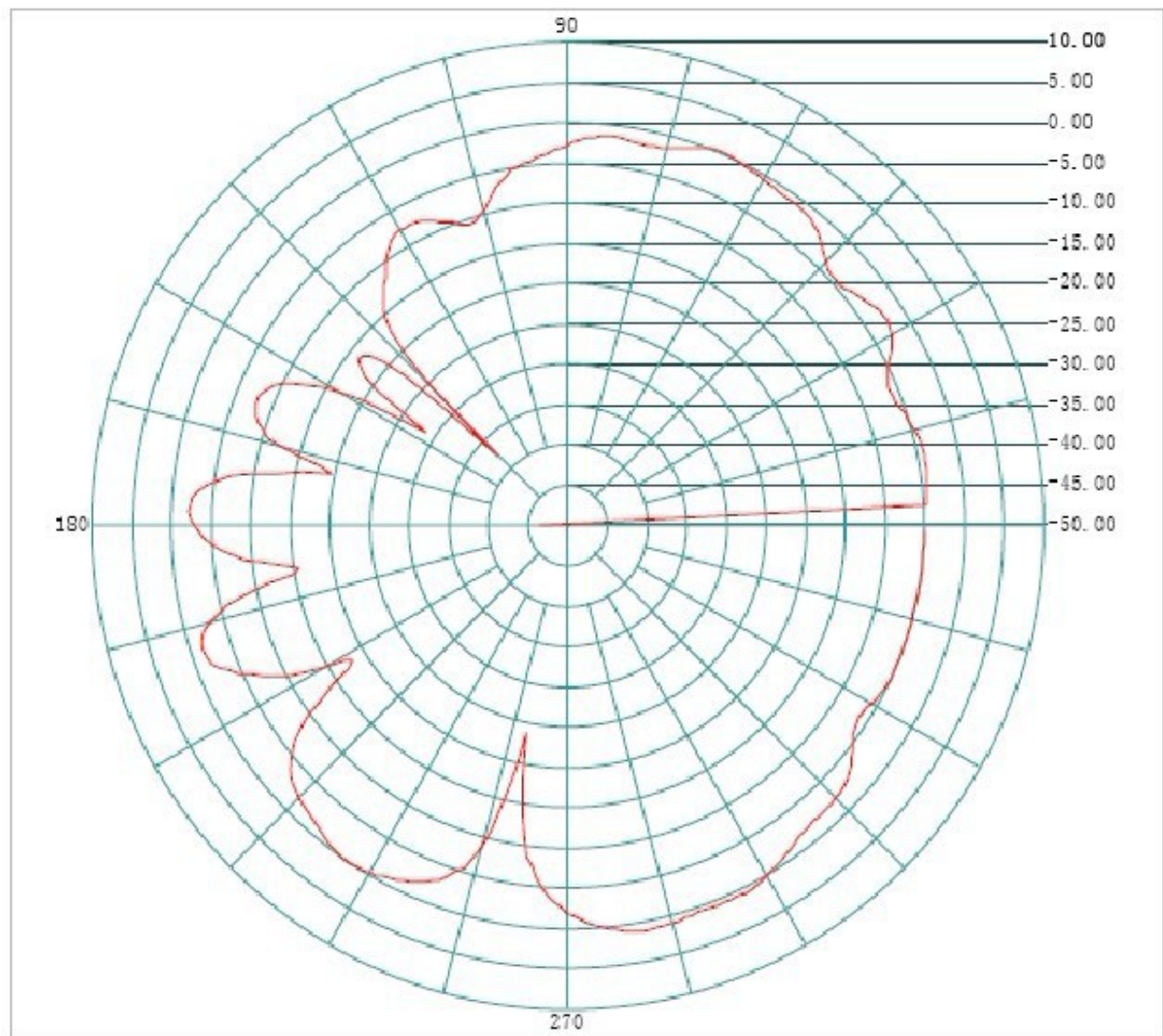
Maximum Value(dBi): **-4.29**

Average Gain(dBi) : **-8.81**

Minimum Gain(dBi): **-51.4**

6. 2480 MHz

6.1 Horizontal



Frequency(MHZ): **2480**

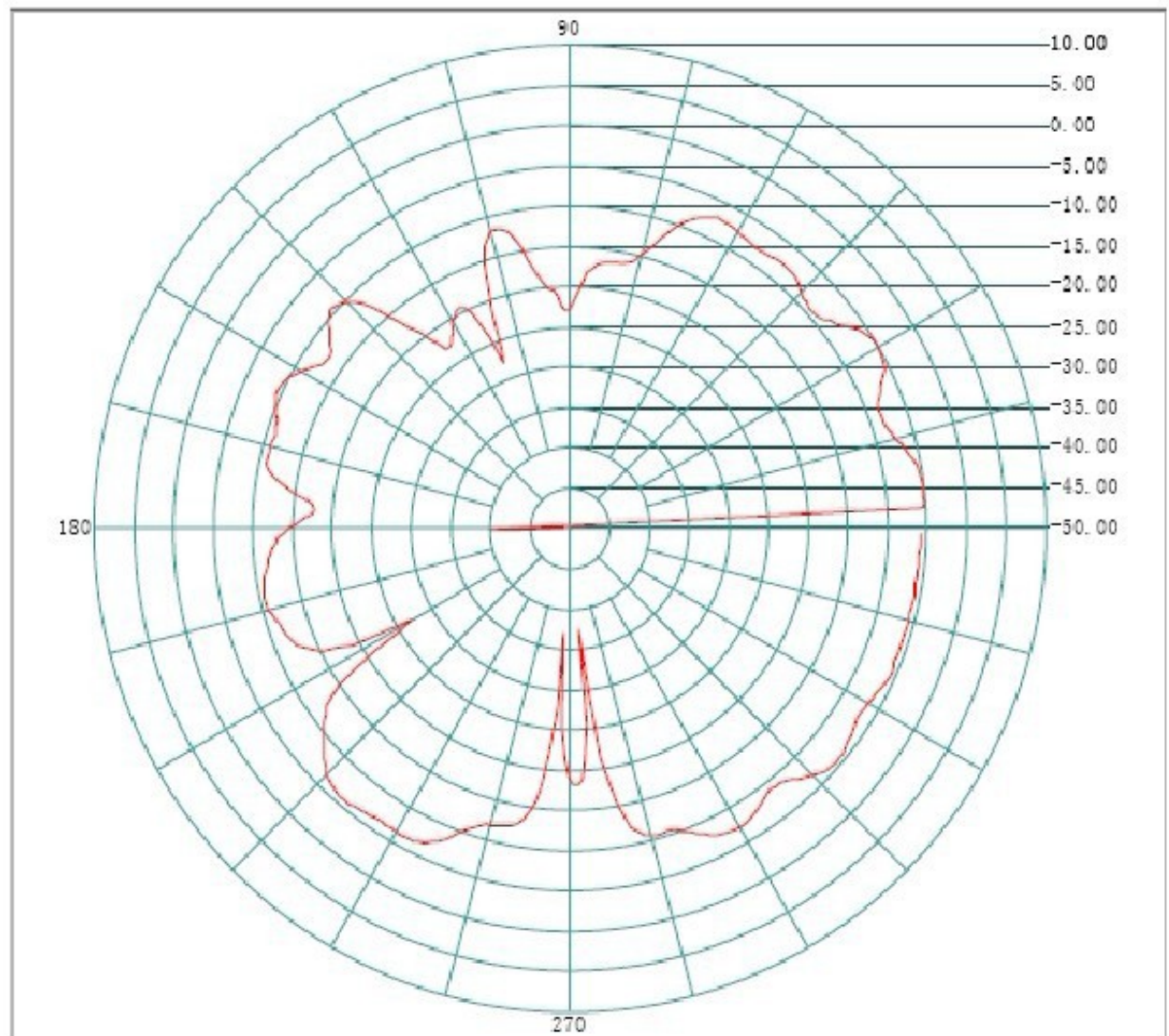
Antenna Polarity: **Horizontal**

Maximum Value(dBi): **2.58**

Average Gain(dBi) : **-3.34**

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

6.2 Vertical



Frequency(MHZ): **2480**

Antenna Polarity: **Vertical**

Maximum Value(dBi): **-4.95**

Average Gain(dBi) : **-9.06**

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