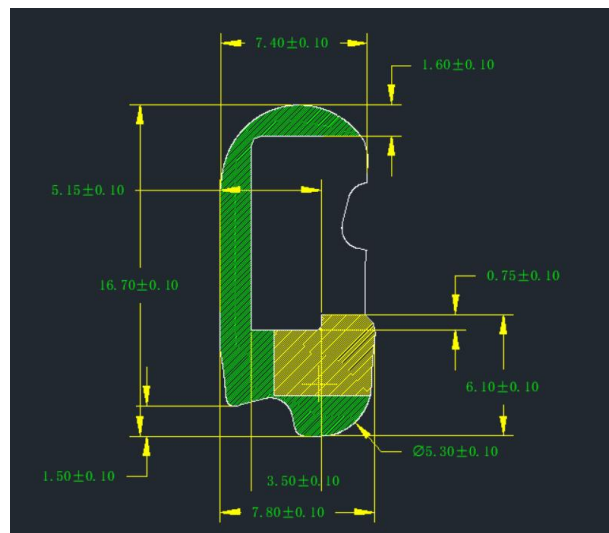


# Antenna Specification

## 1、Electrical performance

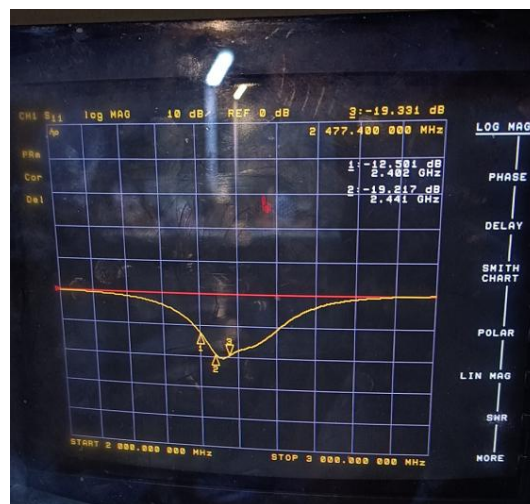
- 1.1) Type of Antenna: FPC antenna
- 1.2) Frequency range: 2400MHz ~ 2500MHz
- 1.3) Gain: 1.63dBi
- 1.4) Impedance: 50 ohm
- 1.5) VSWR:  $\leq 2$
- 1.6) Return Loss:  $\leq -10$  dB
- 1.7) Polarization: Linear
- 1.8) Radiation: Omni-directional
- 1.9) Model: ATL-87
- 1.10) Manufacturer: Guangdong Antexin Technology Co., LTD
- 1.11) address: Qunyizhican Manufacturing Industrial Park, South of Sanhe Avenue, Tonghu Town, Zhongkai High-tech Zone, Huizhou

## 2、Antenna graph



(a) FPC antenna

### 3、 Network analyzer graph



### (b) Return Loss



(c) VSWR



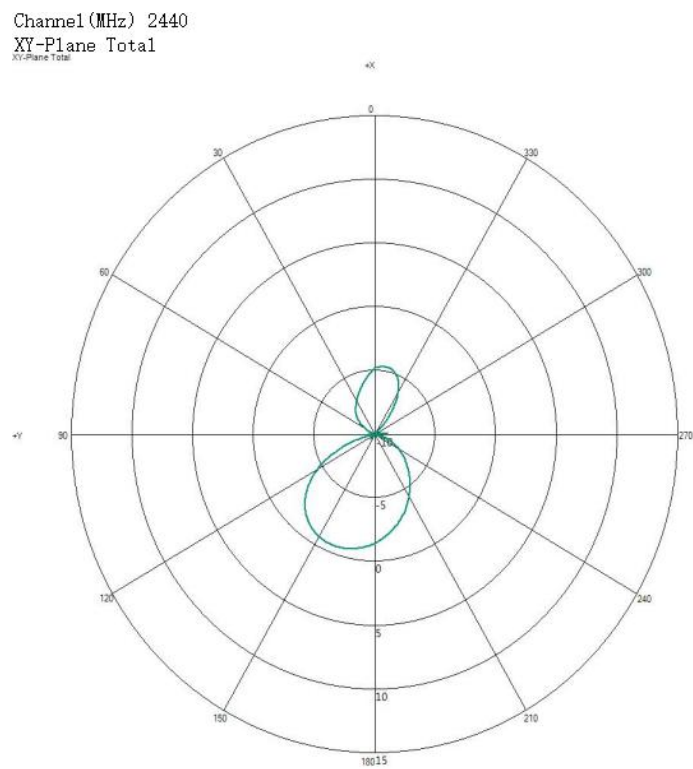
(d) Smith Cha

# 4、 Gain pattern

## 4.1 ) Gain chart

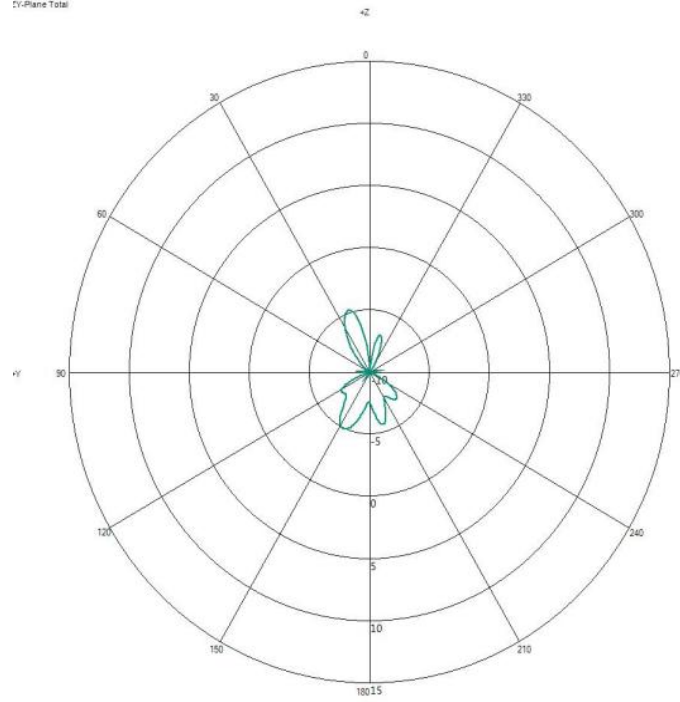
| Freq(MHz) | Gain(dB) | Efficiency(dB) | Efficiency(%) |
|-----------|----------|----------------|---------------|
| 2400      | 1.14     | -5.55          | 29.56         |
| 2410      | 1.48     | -5.14          | 29.03         |
| 2420      | 1.63     | -4.88          | 31.26         |
| 2430      | 0.84     | -5.63          | 27.86         |
| 2440      | 1.07     | -5.30          | 30.61         |
| 2450      | 1.14     | -5.18          | 32.50         |
| 2460      | 0.53     | -5.57          | 29.54         |
| 2470      | 0.78     | -5.17          | 30.35         |
| 2480      | 0.79     | -5.04          | 27.75         |
| 2490      | 0.42     | -5.20          | 30.42         |
| 2500      | -0.66    | -6.02          | 31.34         |

## 4.2 ) 2D gain pattern



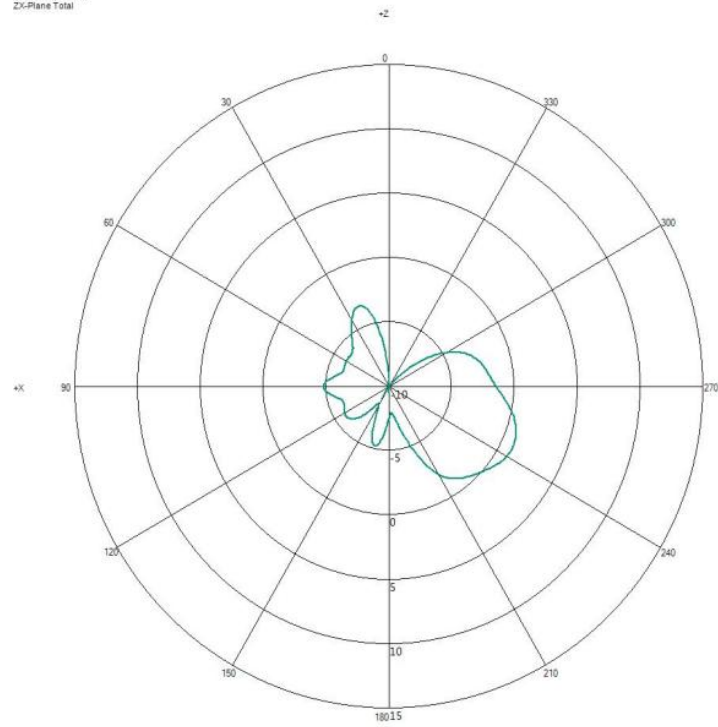
(f) 2440MHZ FPC antenna (XY-Plane)

Channel (MHz) 2440  
ZY-Plane Total



(g) 2440MHZ FPC antenna (ZY-Plane)

Channel (MHz) 2440  
ZX-Plane Total



(h) 2440MHZ FPC antenna (ZX-Plane)