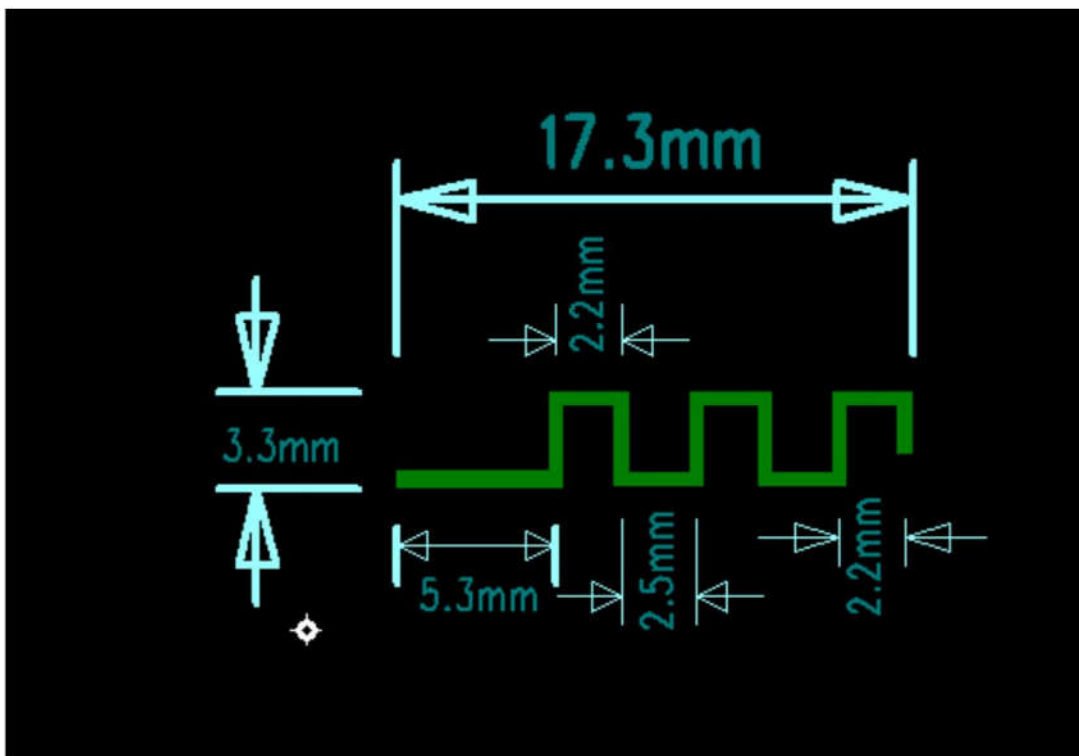
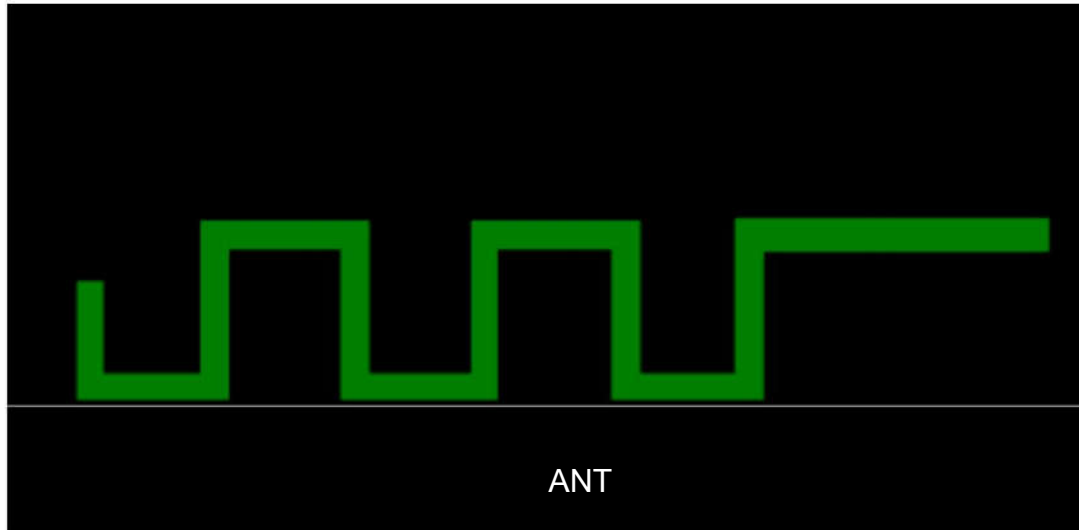


# Antenna Specifications

Shenzhen Yilian Internet of Things Co., Ltd

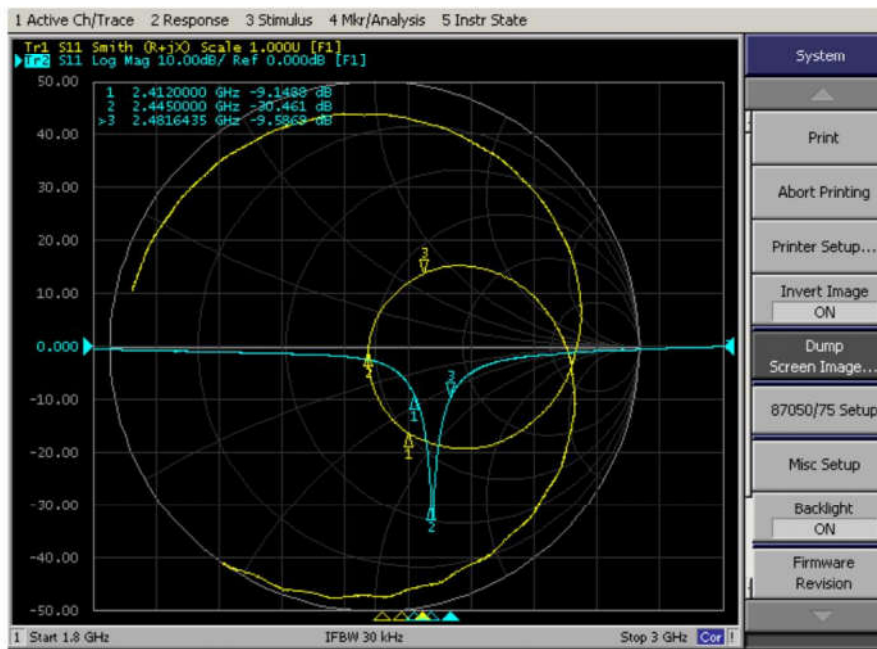
## Antenna size



# Antenna specification parameters

- 1 Center operating frequency :2441MHz
2. Working bandwidth: 2400-2480Mhz
- 3 Data transmission rate :1Mbps
- 4 Antenna types: onboard PCB antenna (default)
- 5 Antenna gain: -1.0dBi
- 6 Impedance: 50ohm
- 7 Modulation type: GFSK

## Antenna network division debugging frequency



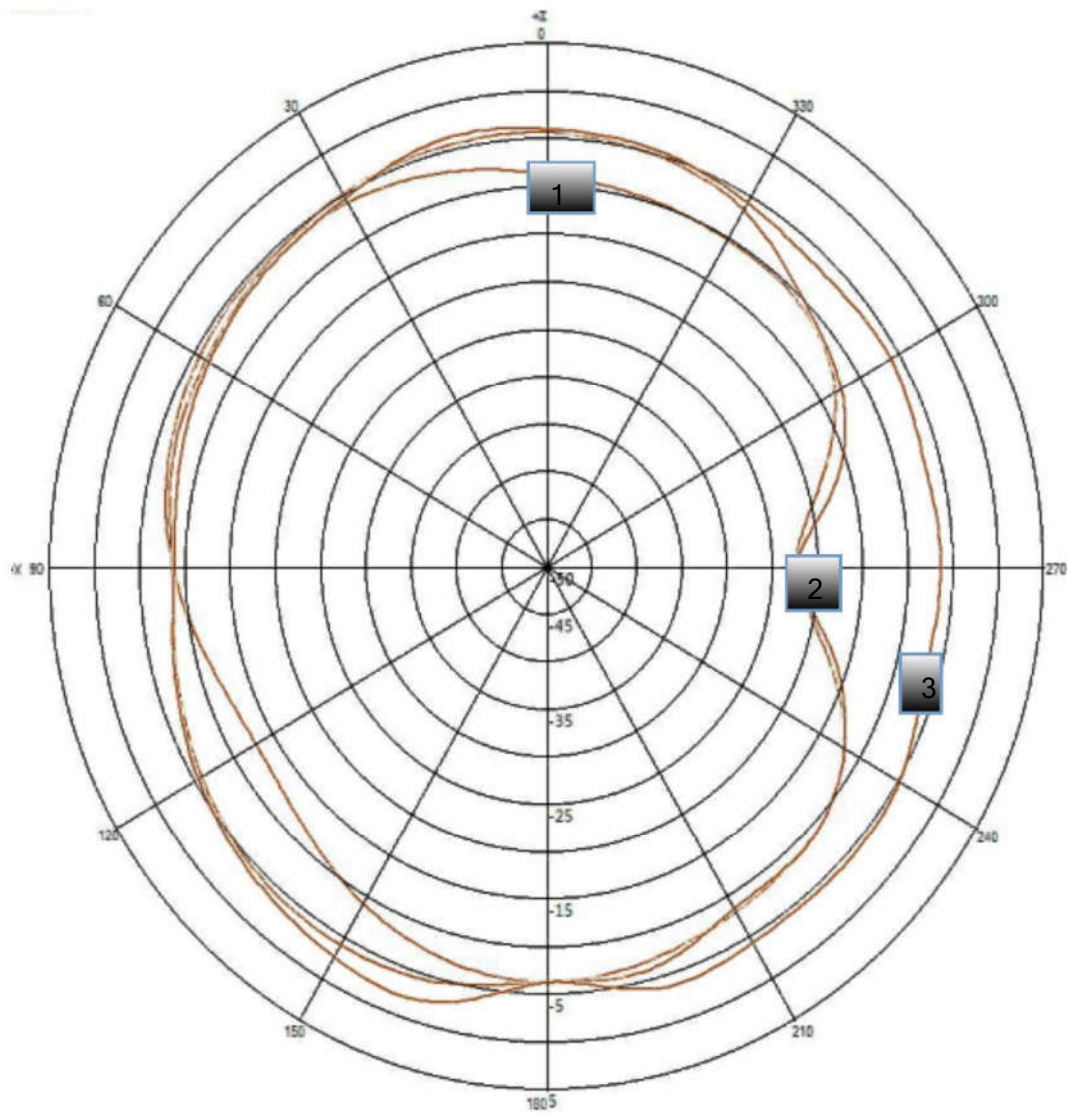
The return loss of the antenna at 2.445GHz is -30dB, and the impedance is around 50. Bandwidth 80m

## Antenna testing efficiency

| passive test for 2.4g |              |                |               |
|-----------------------|--------------|----------------|---------------|
| Freq(MHz)             | Gain(dB)     | Efficiency(dB) | Efficiency(%) |
| 2400                  | -2.125670268 | -6.512982178   | 22.32039018   |
| 2410                  | -1.839793728 | -6.350555158   | 23.17098436   |
| 2420                  | -1.64029678  | -6.246810655   | 23.7311582    |
| 2430                  | -1.328848956 | -5.925152964   | 25.5555189    |
| 2440                  | -1.132319256 | -5.799553085   | 26.30538676   |
| 2450                  | -1.087960046 | -5.849299265   | 26.00579133   |
| 2460                  | -1.316358881 | -6.006721723   | 25.08001707   |
| 2470                  | -1.579335991 | -6.245067499   | 23.74068524   |
| 2480                  | -1.962892418 | -6.454212193   | 22.62448909   |
| 2490                  | -2.50538583  | -6.753449407   | 21.11811056   |
| 2500                  | -3.031894388 | -7.252236224   | 18.8267943    |

## 2D Image

- (1) XY-Plane
- (2) ZY-Plane
- (3) ZX-Plane



## 3D Image

