

## Antenna specification

►Company Name

*Dongguan Aolange Electronics Co., Ltd*

►Company address

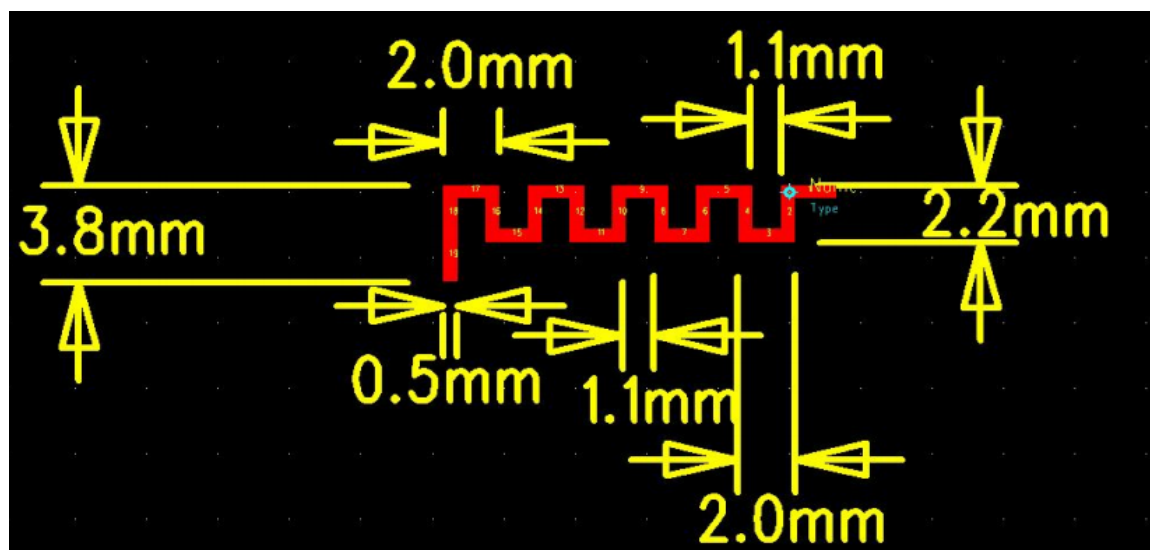
No.2 Baofeng Road, Yongkou Village, Shijie Town, Dongguan  
City,Guangdong Province

## APPLications

※Bluetooth Home RF

※ISM band 2.4GHz applications

### 1. Dimensions



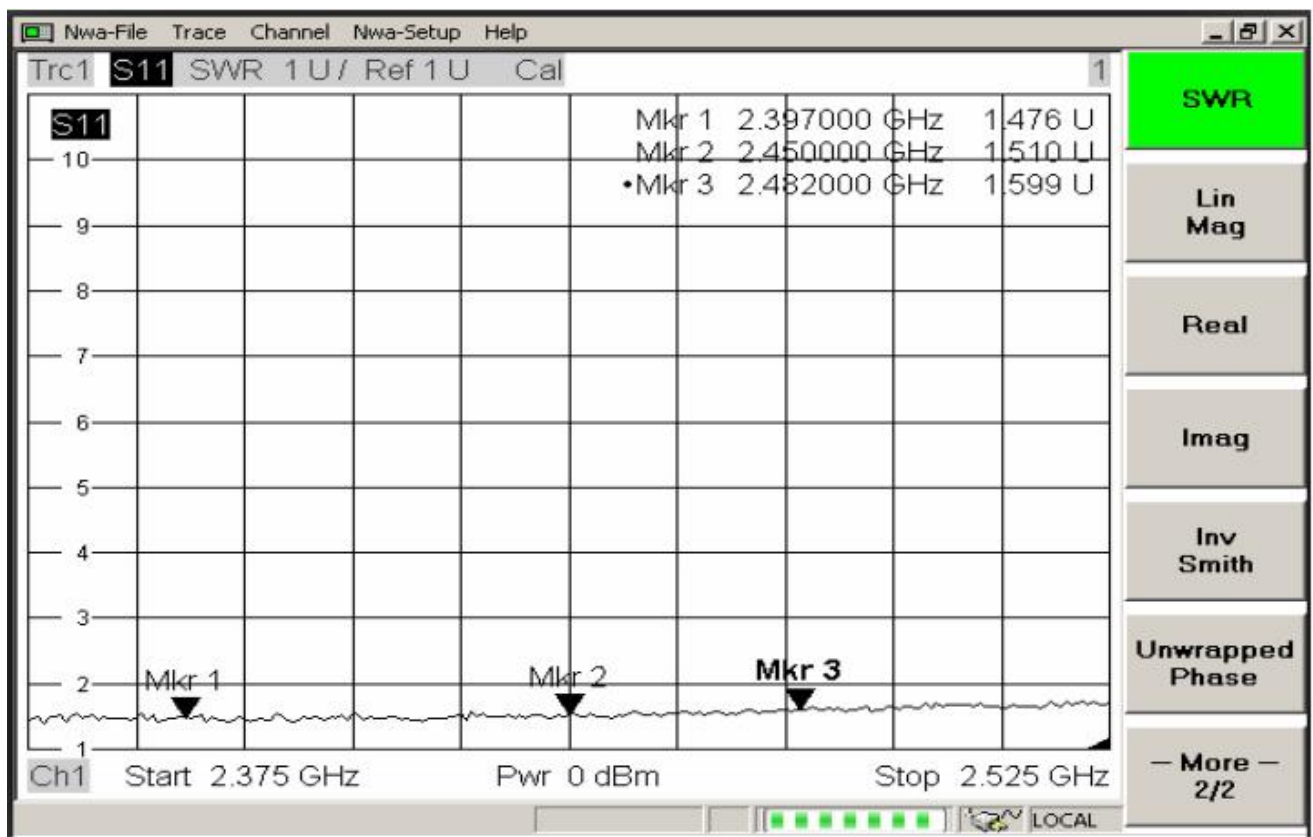
### 2. Specifications

| number | Item                      | Specifications     |
|--------|---------------------------|--------------------|
| 1      | Working Central Frequency | 2441 MHz           |
| 2      | Band Width                | (2402-2480)MHz     |
| 3      | Gain                      | 0dBi               |
| 4      | VSWR                      | ≤2.0               |
| 5      | Antenna type              | PCB antenna        |
| 6      | Azimuth Beam width        | Omni - directional |
| 7      | Impedance                 | 50ohm              |
| 8      | Modulation mode           | GFSK               |

### 3. simulation parameter

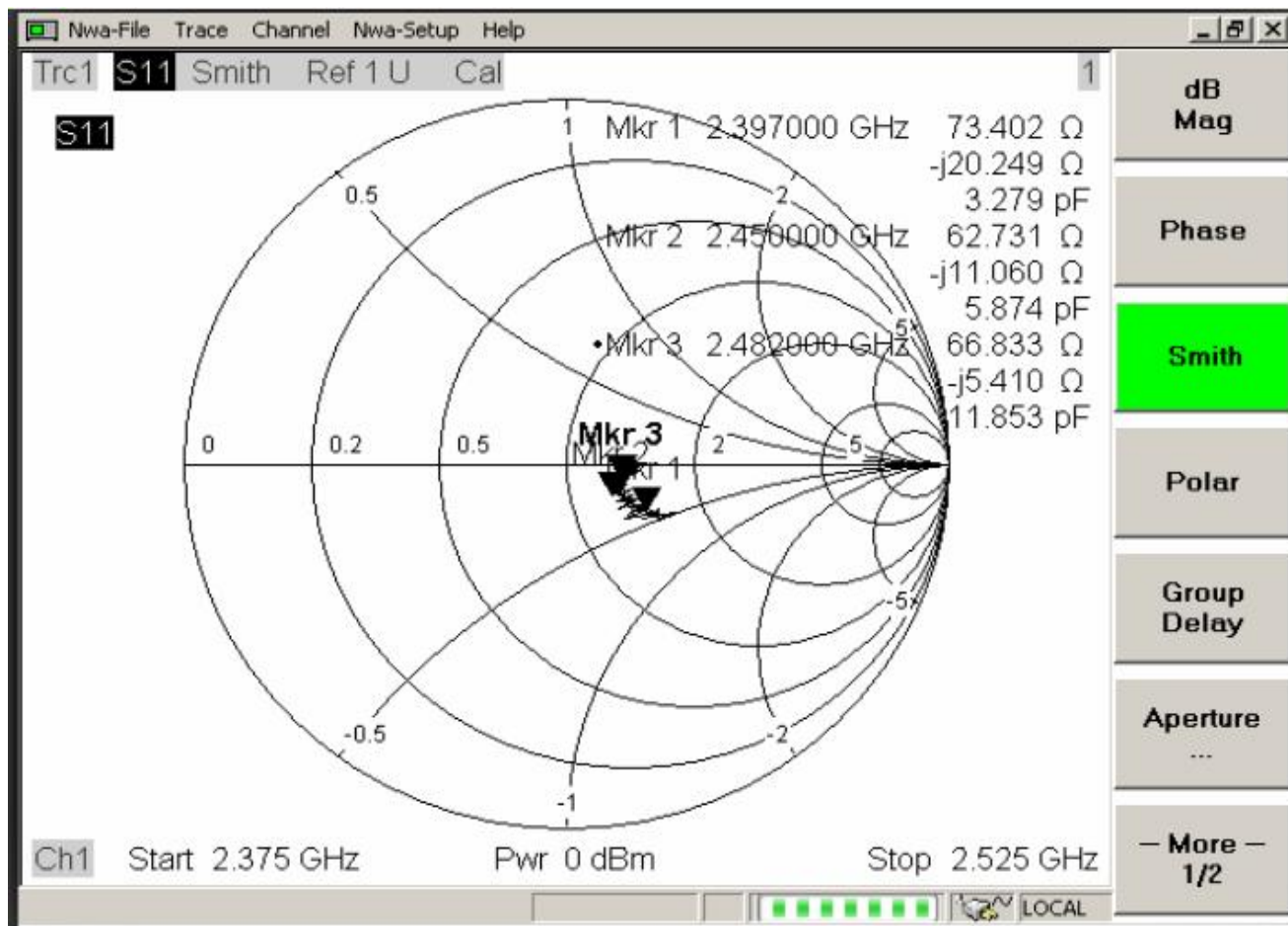
#### ① VSWR

Mkr1: 2397MHz 1.47    Mkr2: 2450MHz 1.51    Mkr3: 2482 MHz 1.59



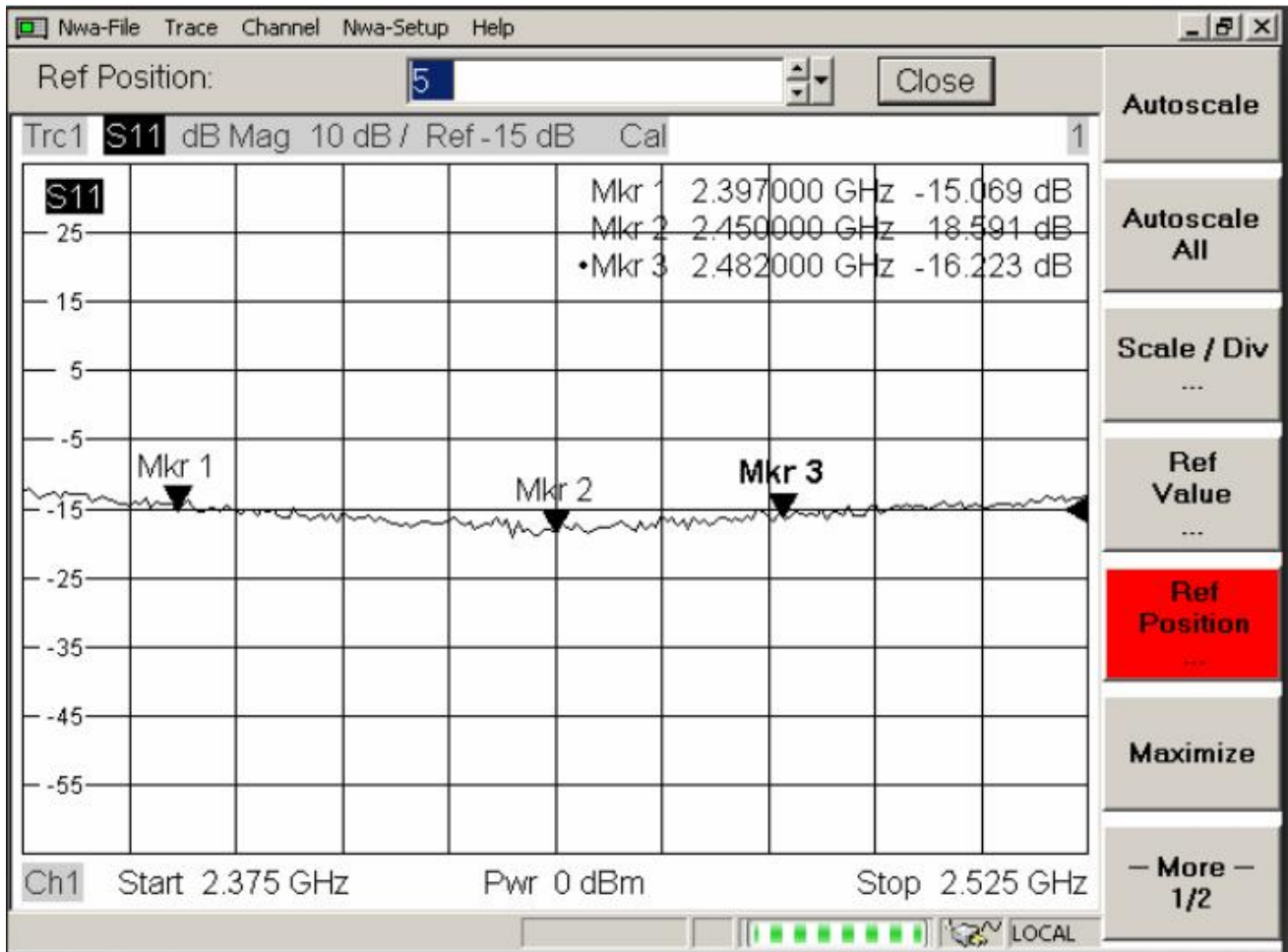
## ②Smith Char

Mkr1: 2397MHz 73.4      Mkr2: 2450MHz 62.7      Mkr3: 2482MHz 66.8



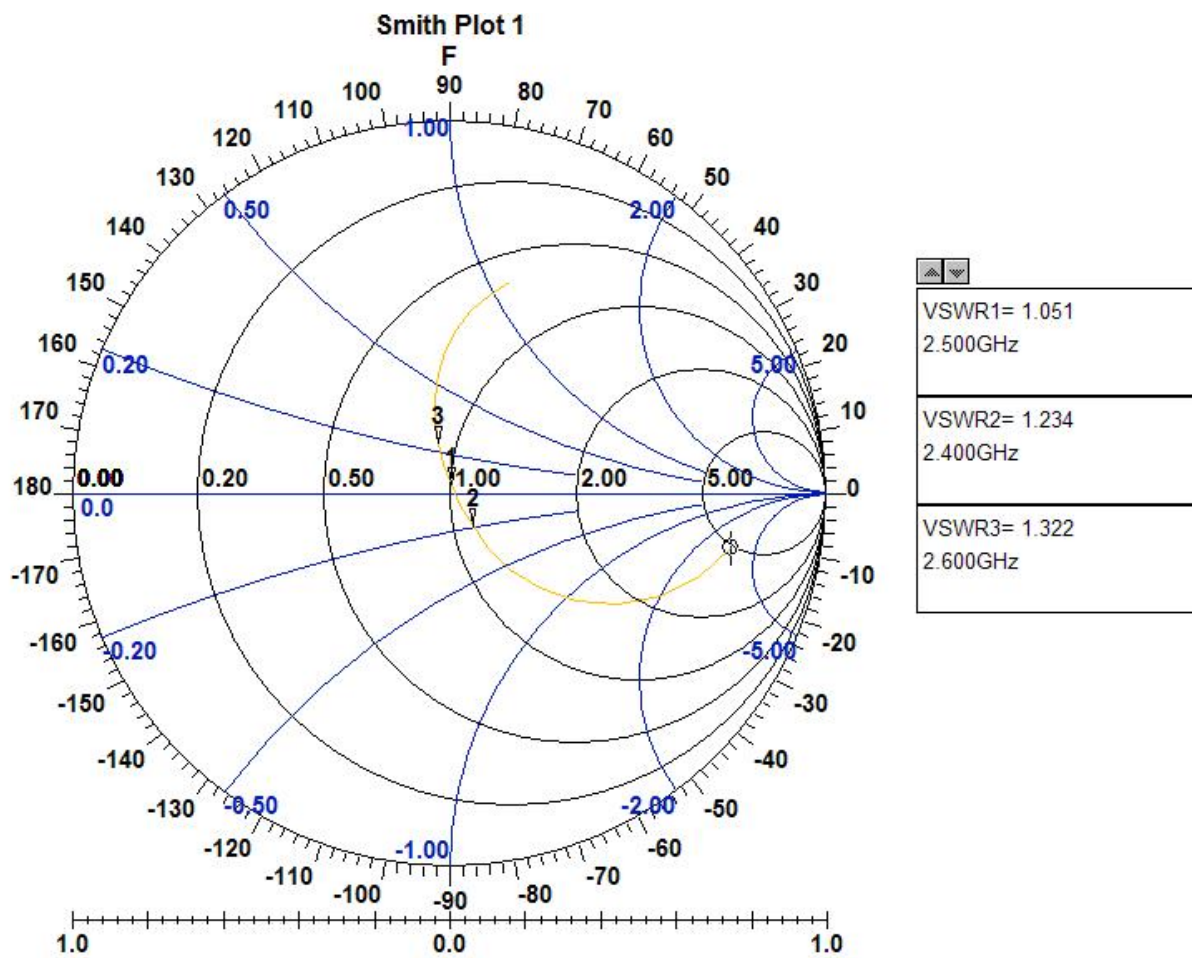
### ③Return Loss

Mkr1: 2397MHz -15    Mkr2: 2450MHz -18    Mkr3: 2482 MHz -16



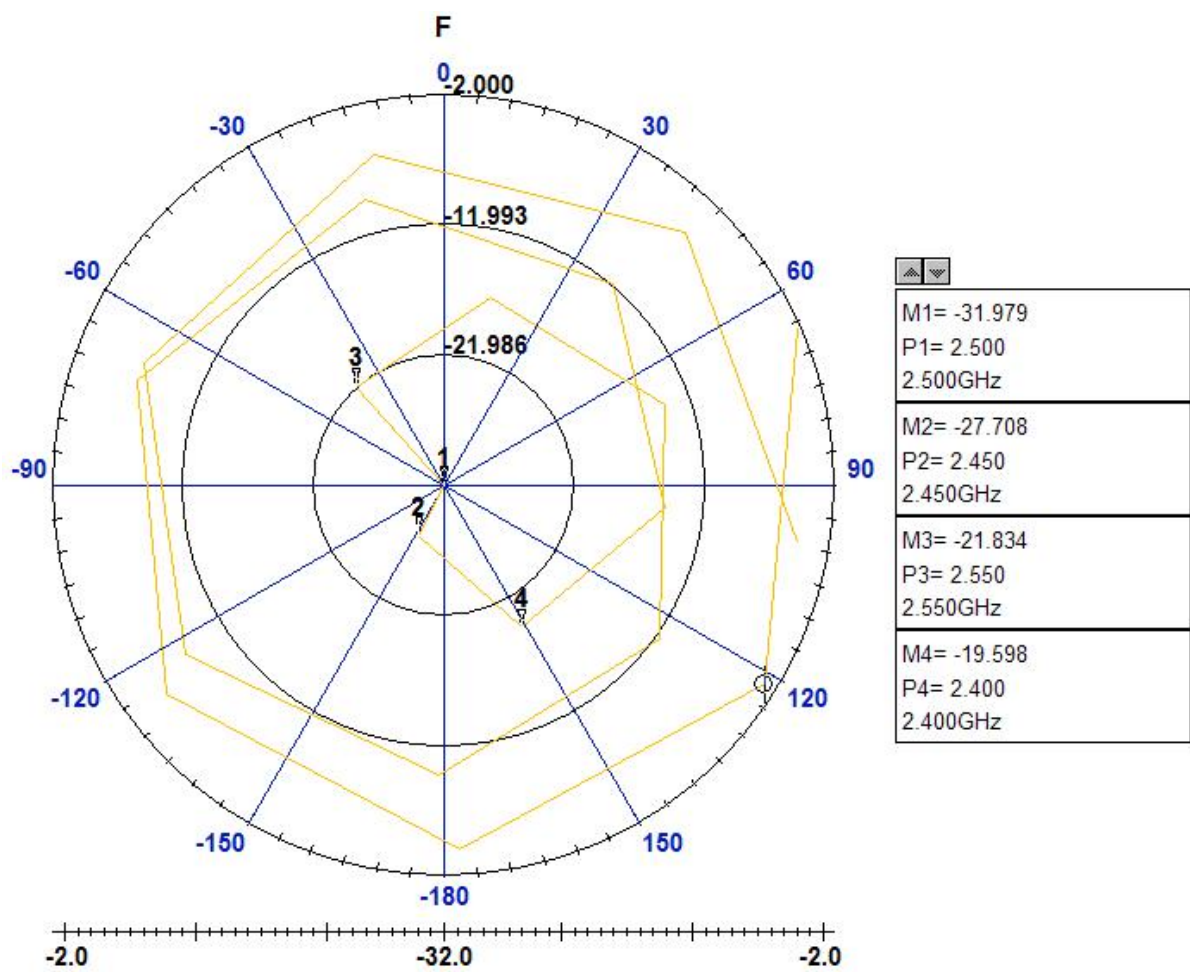
#### ④Smith Char

Mkr1: 2400MHz 1.234      Mkr2: 2500MHz 1.051Mkr3: 2600MHz 1.322



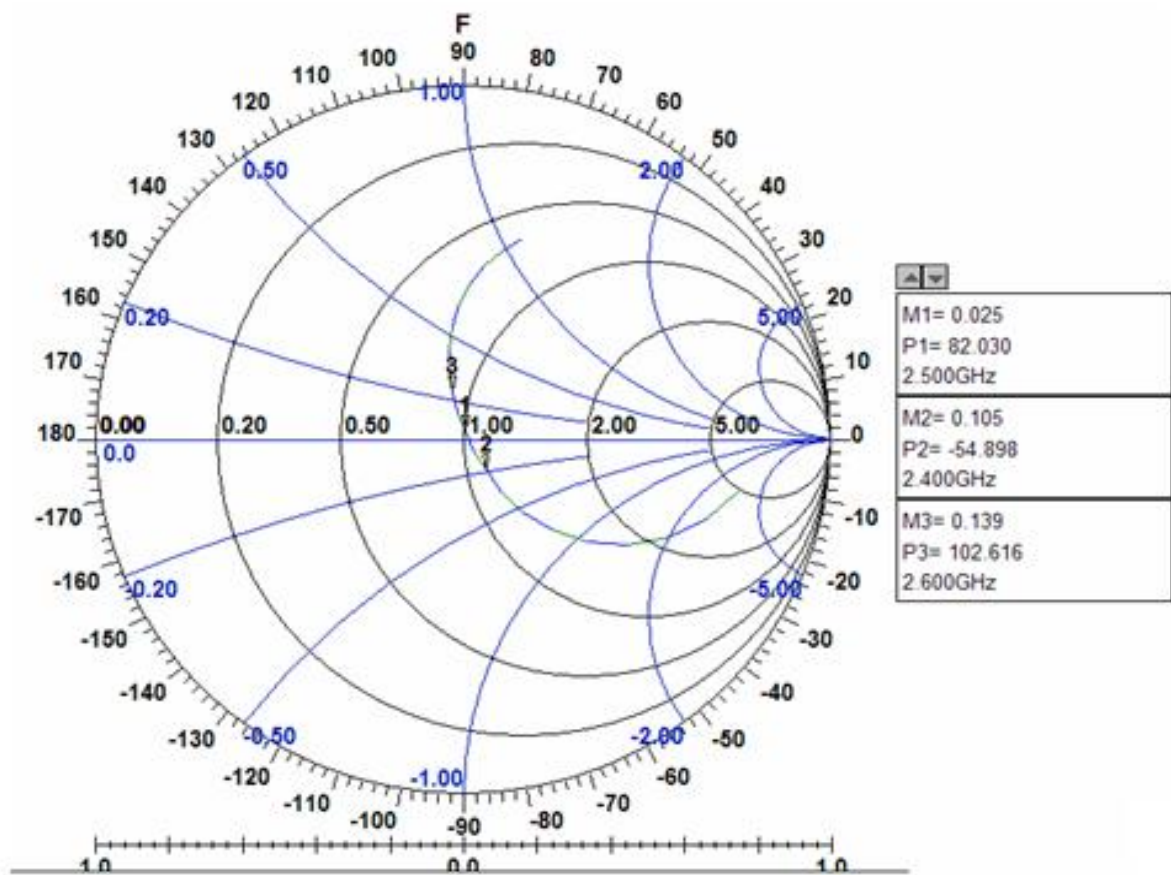
### ⑤Return Loss

Mkr1: 2400MHz -19.59    Mkr2: 2450MHz -27.70Mkr3: 2500MHz -31.97    Mkr4:  
2550MHz -21.83



## ⑥Phase

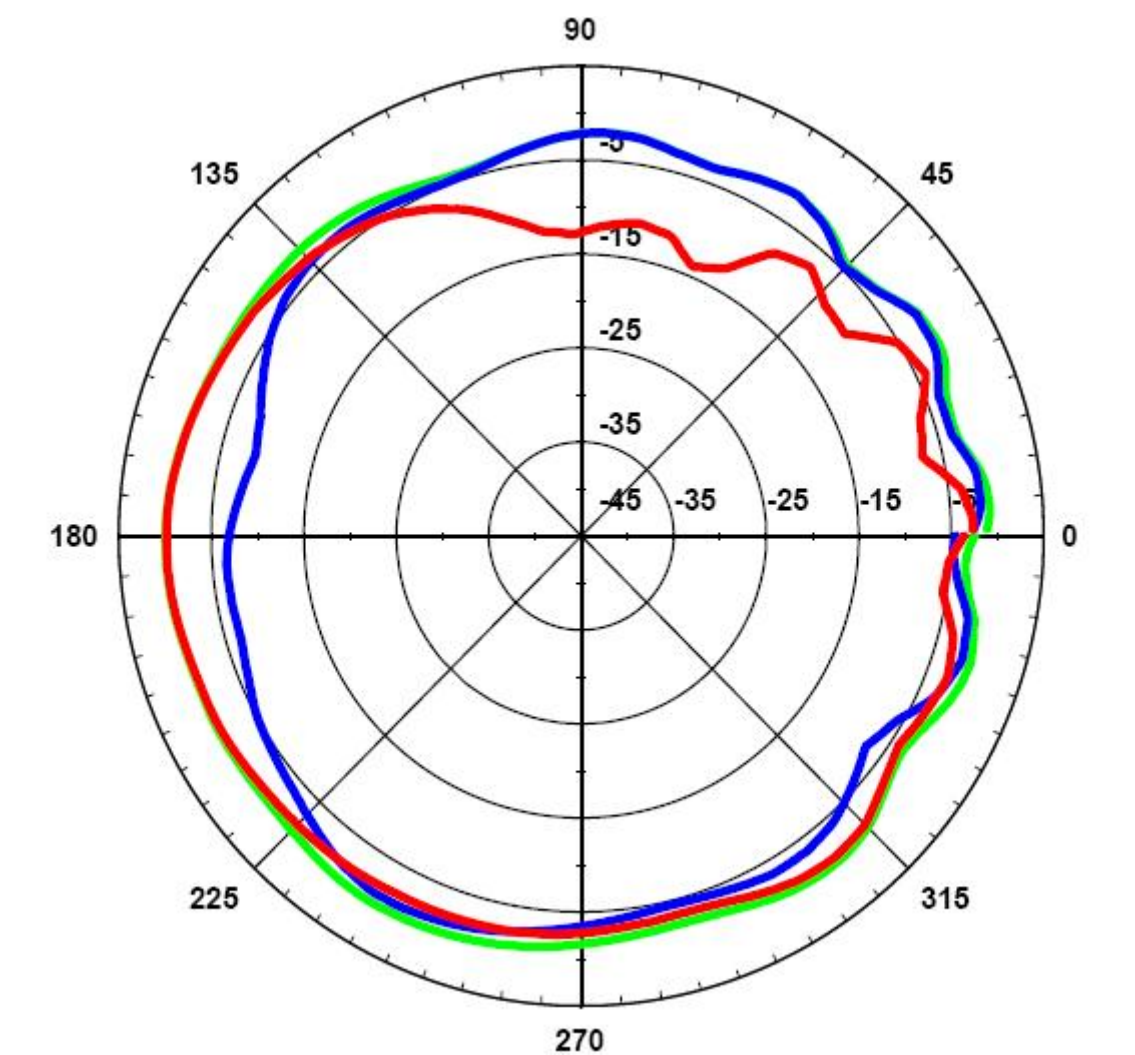
Mkr1: 2400MHz -54.89    Mkr2: 2500MHz -82.03    Mkr3: 2600MHz -102.6





#### 4. Radiation Patterns

XY-plane ———  
XZ-plane ———  
YZ-plane ———



- 3DRadiation pattern

