

# Antenna specification

• Company Name *Shenzhen Innosystem Technology Limited*

• Company address  
F2 Building 3 Shenzhen Software Park Technology Middle 2  
Rd Gao Xin Science & Technology Park North, S.Z

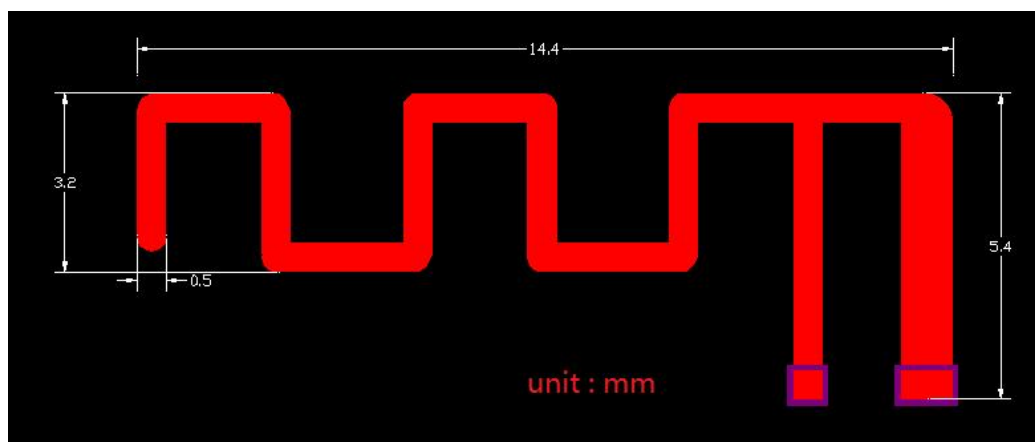
Antenna model: MP341 V1.0

## Applications

※Bluetooth Home RF

※ISM band 2.4GHz applications

### 1. Dimensions



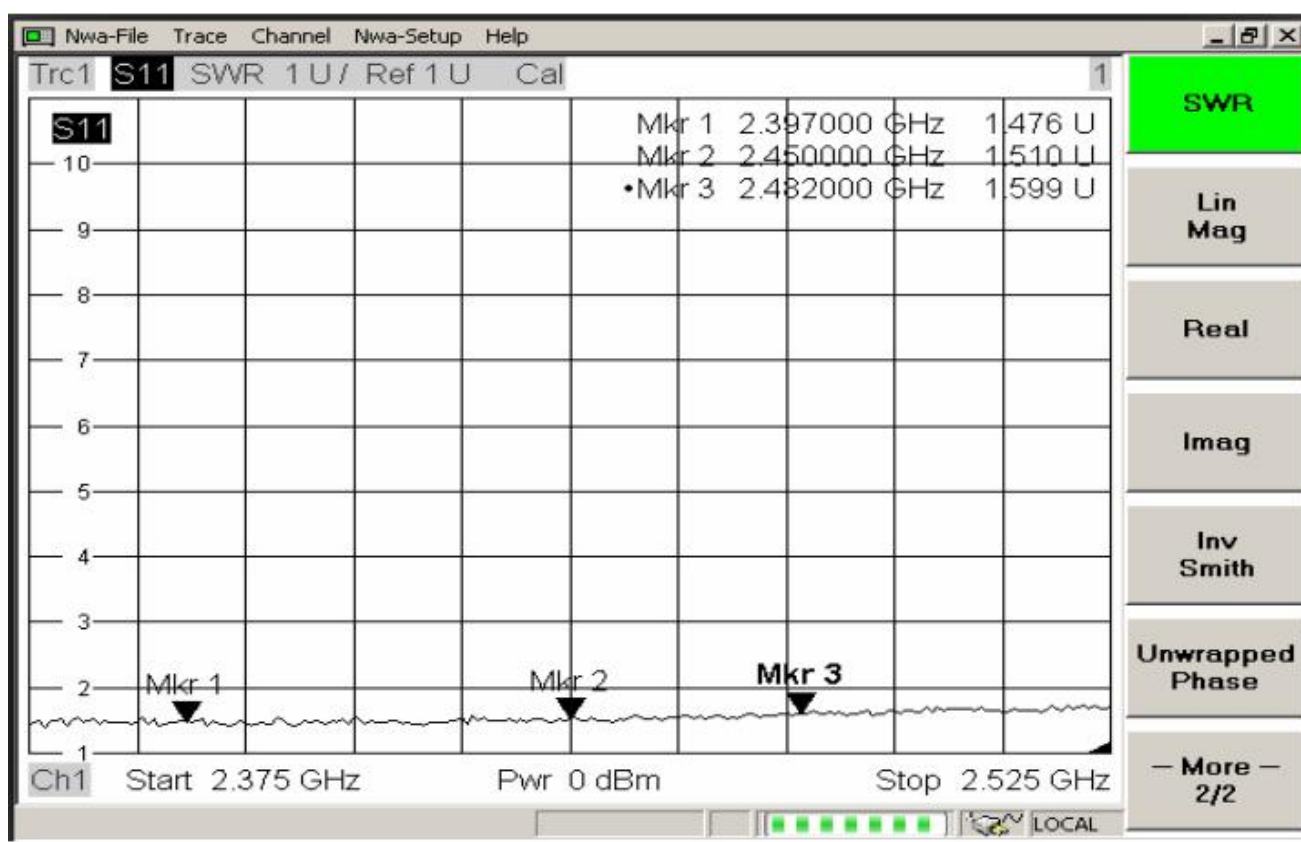
### 2. Specifications

| number | Item                      | Specifications              |
|--------|---------------------------|-----------------------------|
| 1      | Working Central Frequency | 2441 MHz                    |
| 2      | Band Width                | (2397-2600)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, $\pi/4$ -DQPSK, 8DPSK |

### 3. simulation parameter

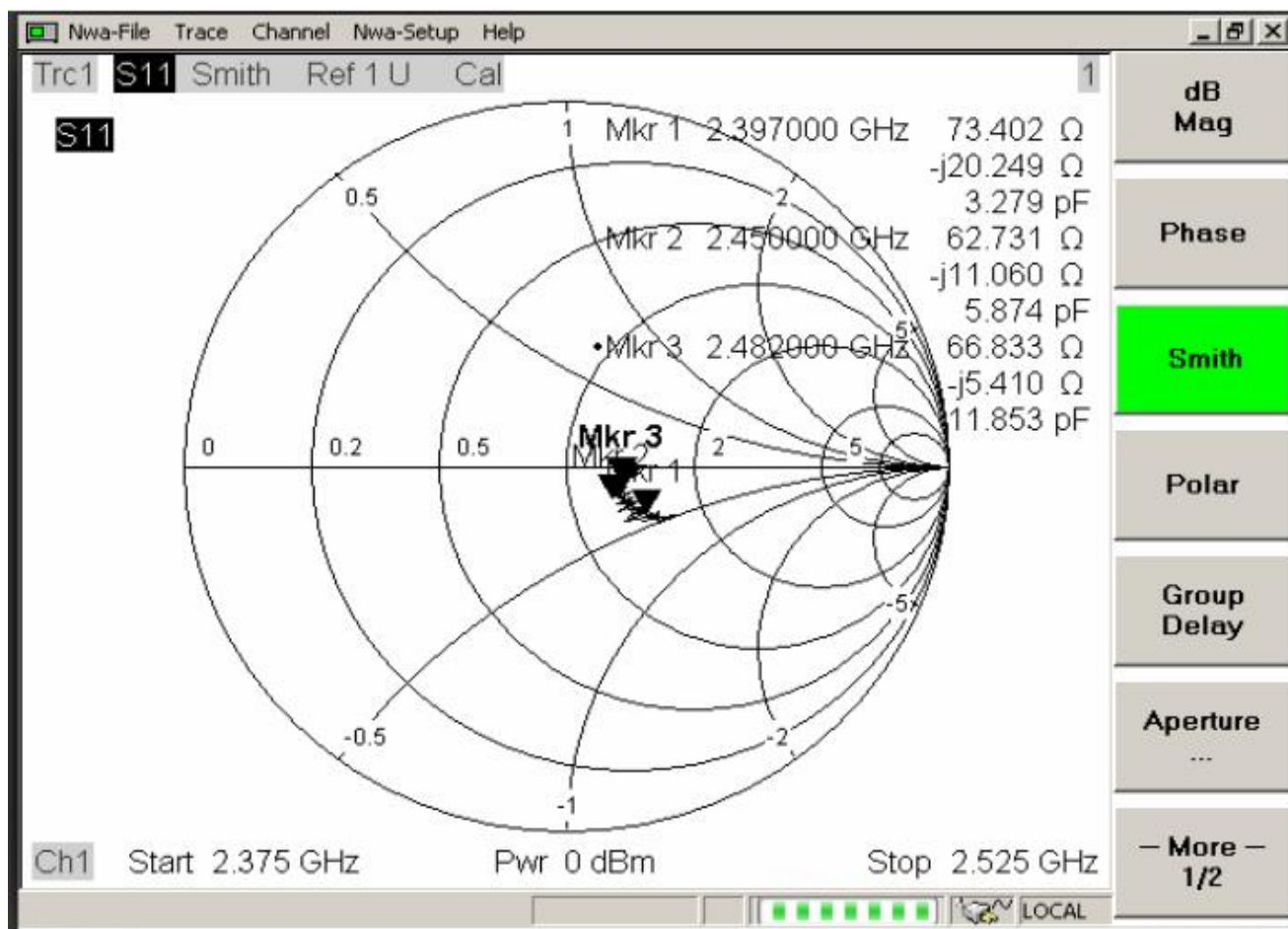
#### ① VSWR

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



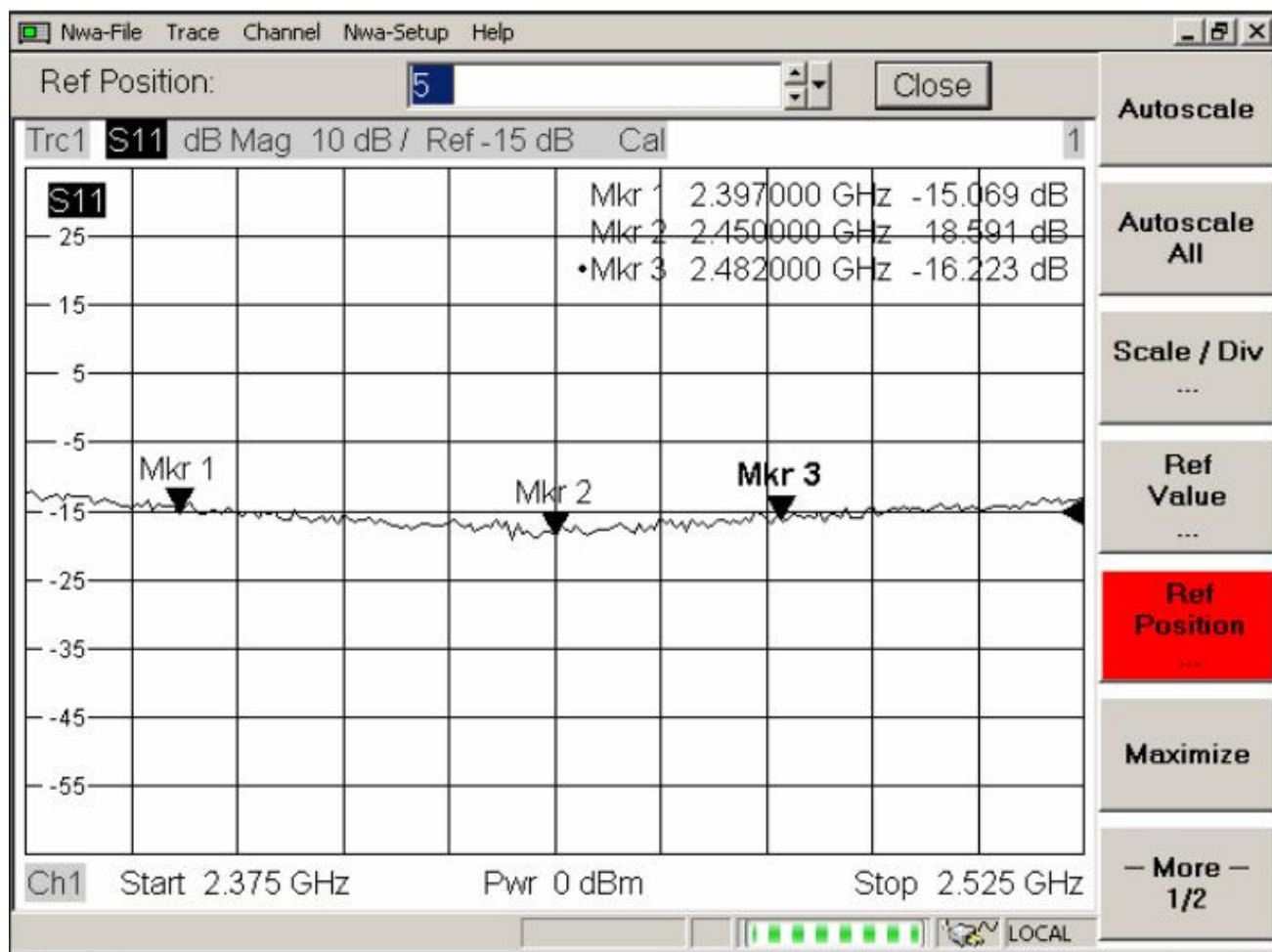
## ②Smith Char

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



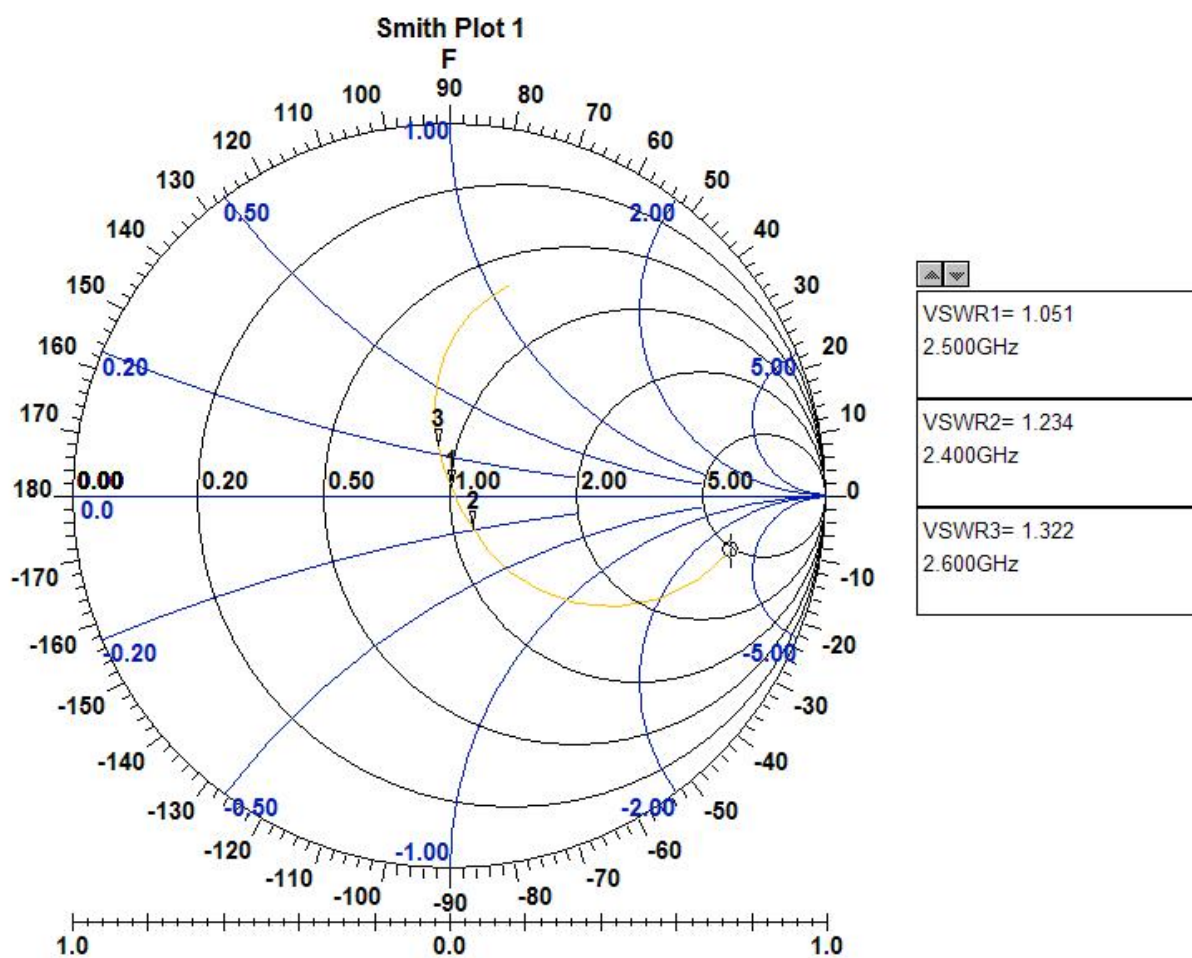
### ③Return Loss

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



#### ④Smith Char

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

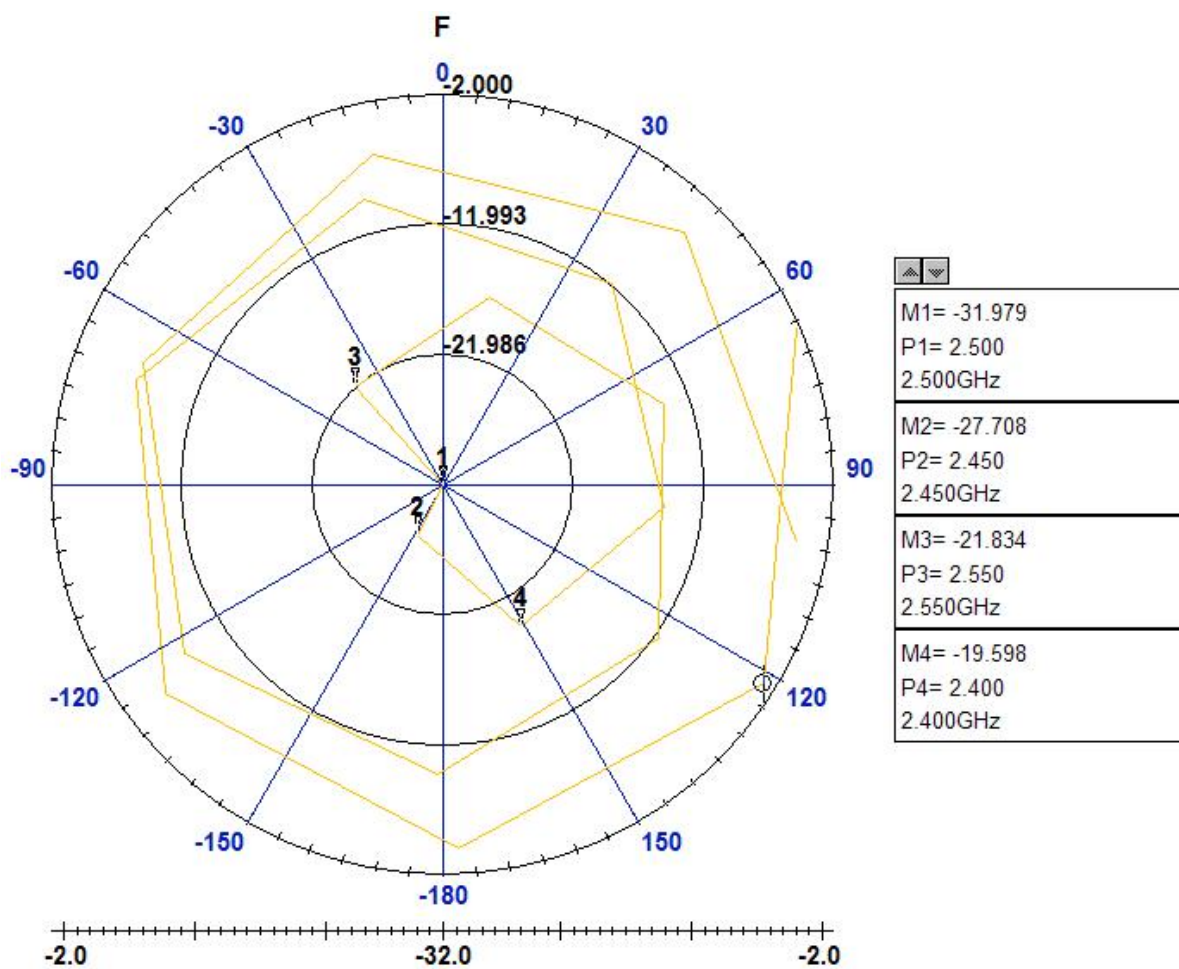




## ⑤Return Loss

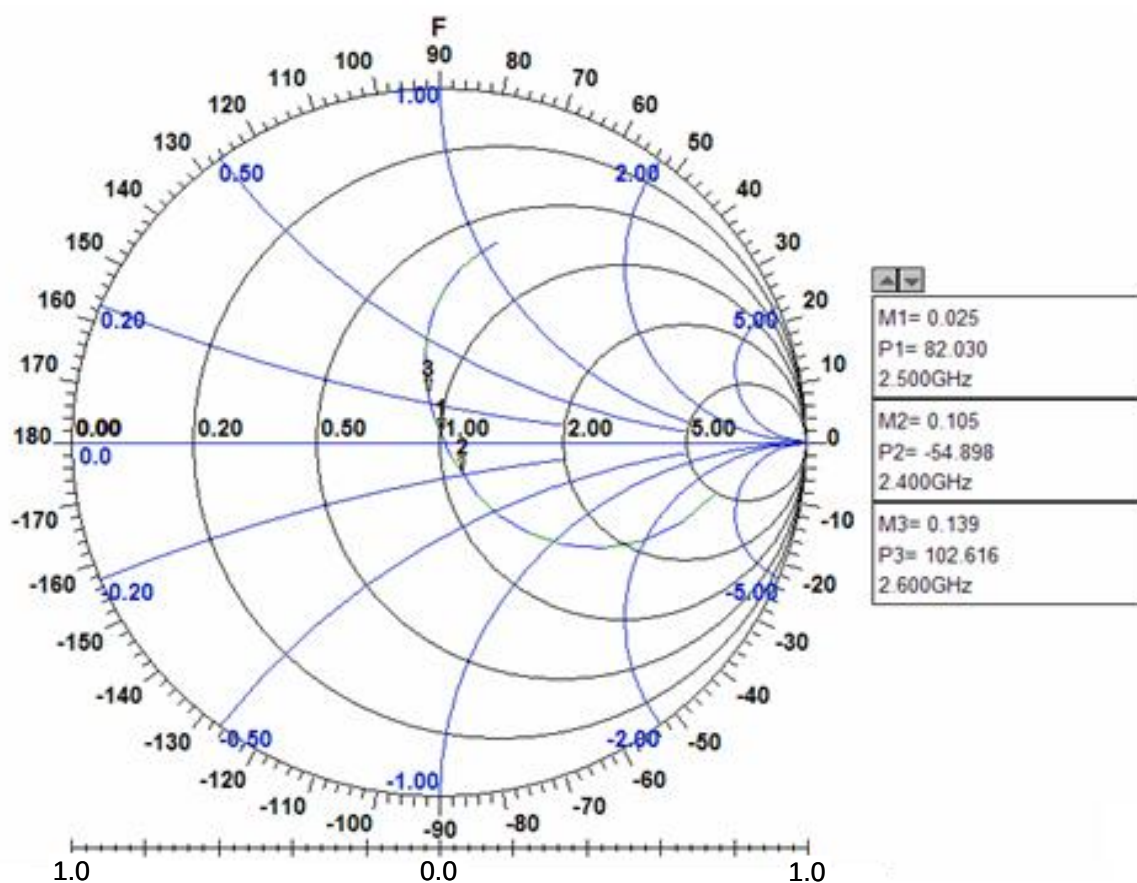
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70Mkr3: 2500MHz -31.97 Mkr4:

2550MHz -21.83



## ⑥Phase

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



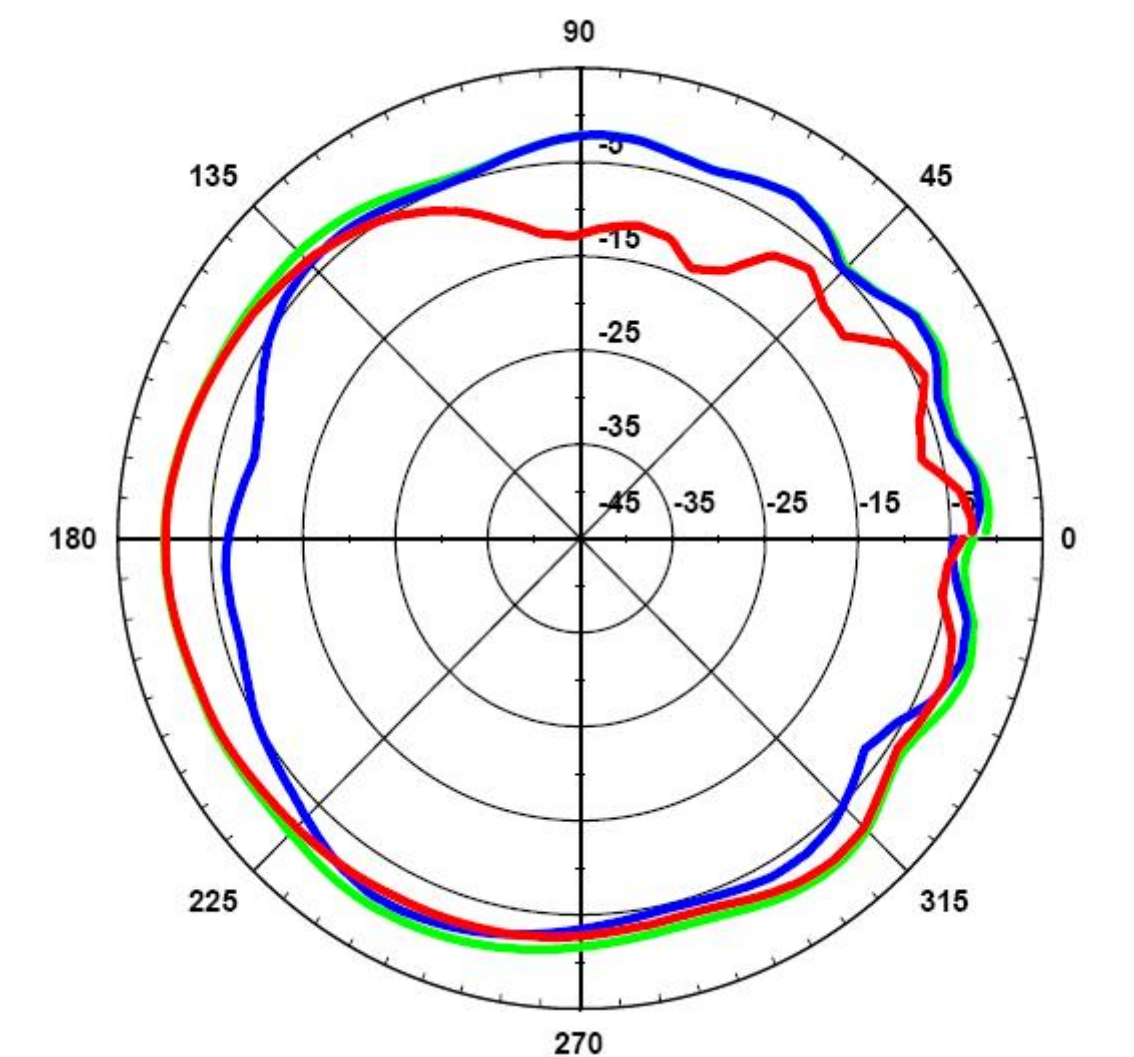


#### 4. Radiation Patterns

XY-plane —

XZ-plane —

YZ-plane —



### • 3D Radiation pattern

