

Antenna Performance Test Specification

Antenna manufacturer

Shanghai Fengpai Network Technology Co., Ltd

Antenna size

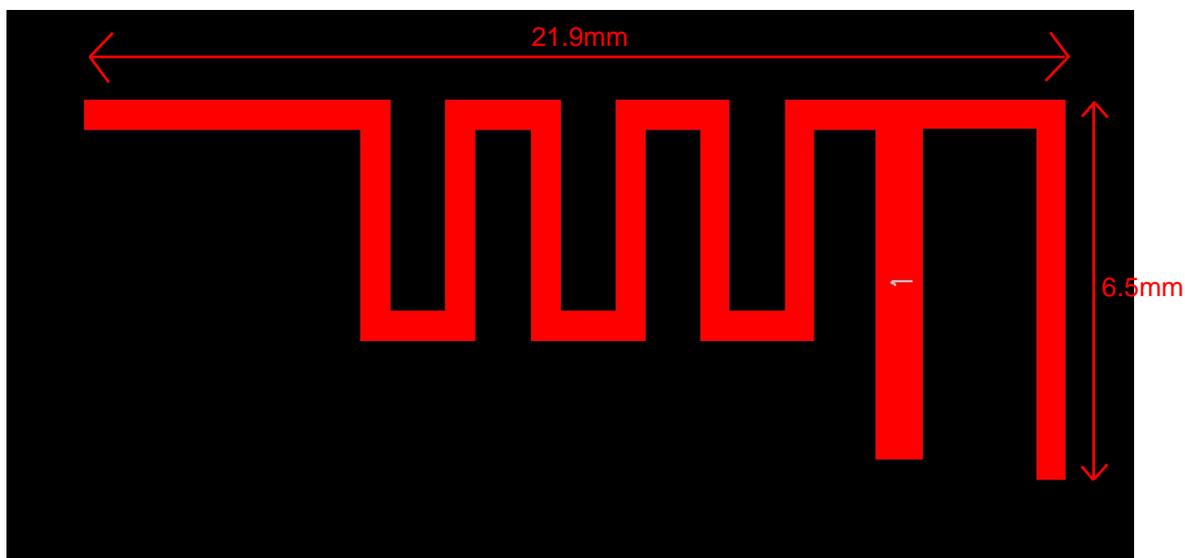
L:21.9 W:6.5

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 | 2.8dBi |
| 4 | VSWR | ≤ 2.0 |
| 5 | Antenna type | PCB antenna |
| 6 | Azimuth Beam width | Omni - directional |
| 7 | Impedance | 50 ohm |
| 8 | Modulation mode | GFSK |

3. Instrument testing, software simulation parameters

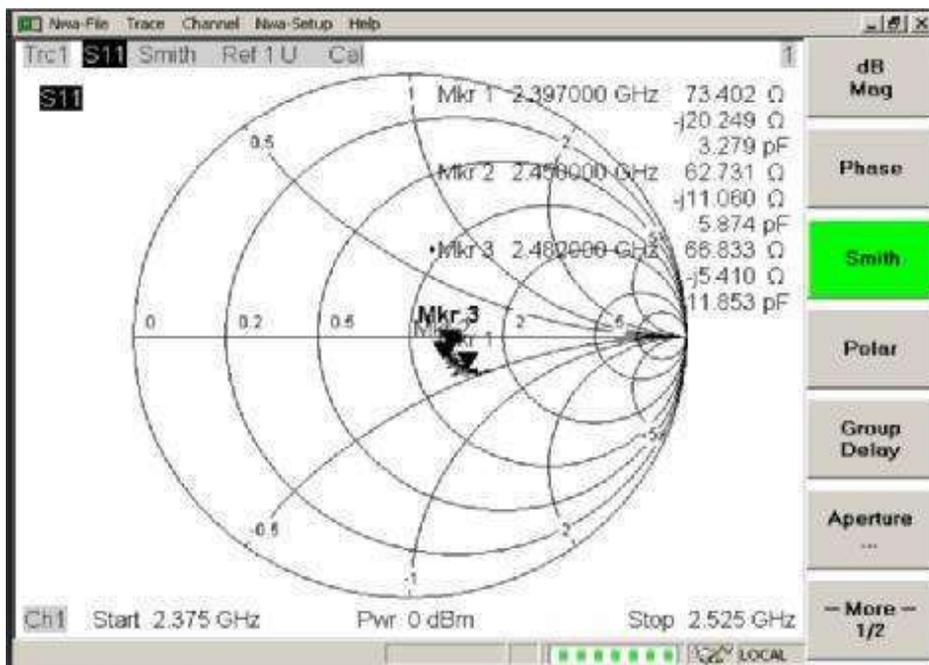
① VSWR

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



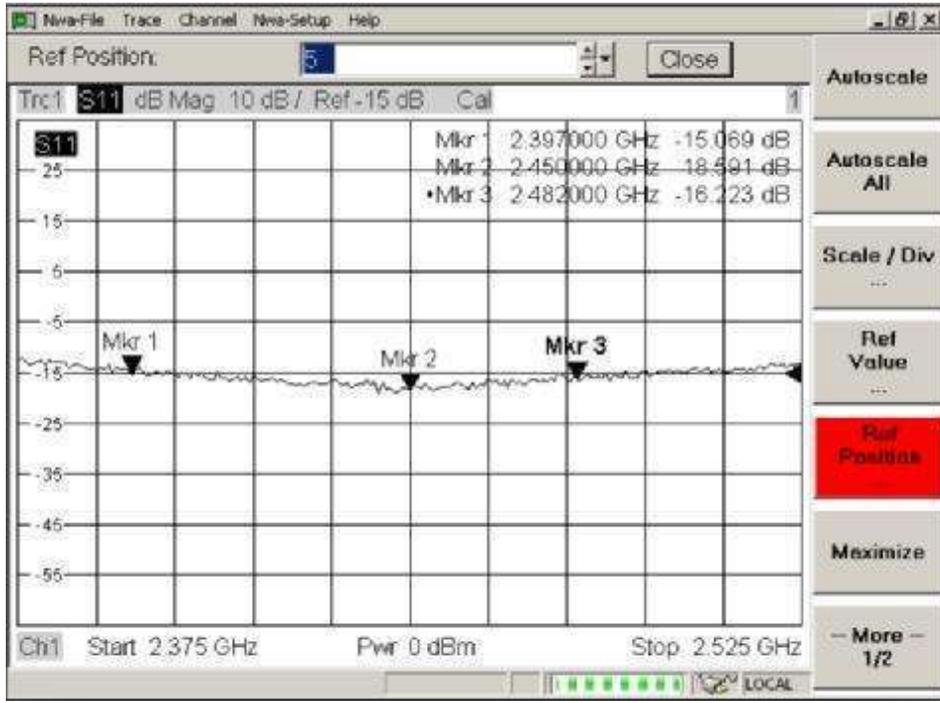
② Smith Char

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



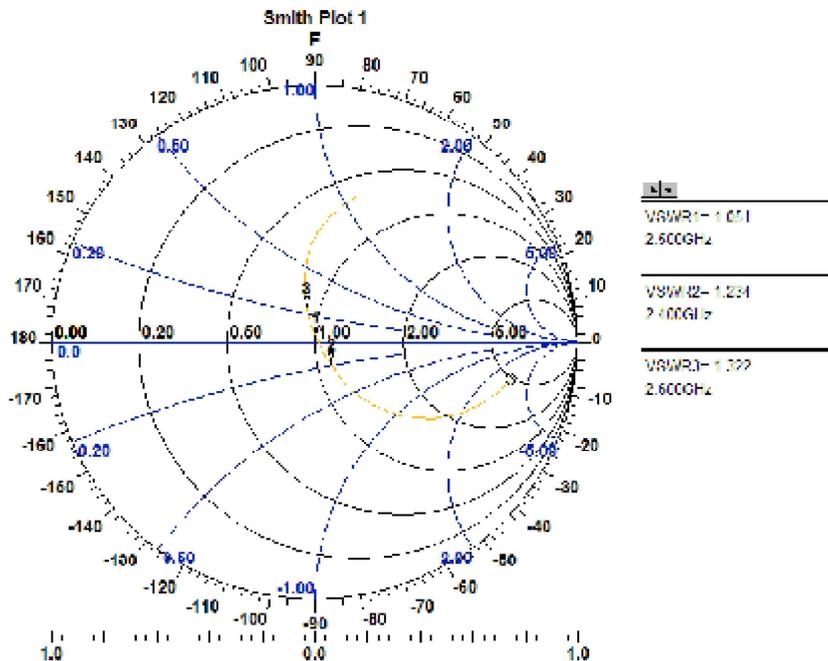
③Return Loss

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



④Smith Char Simulation

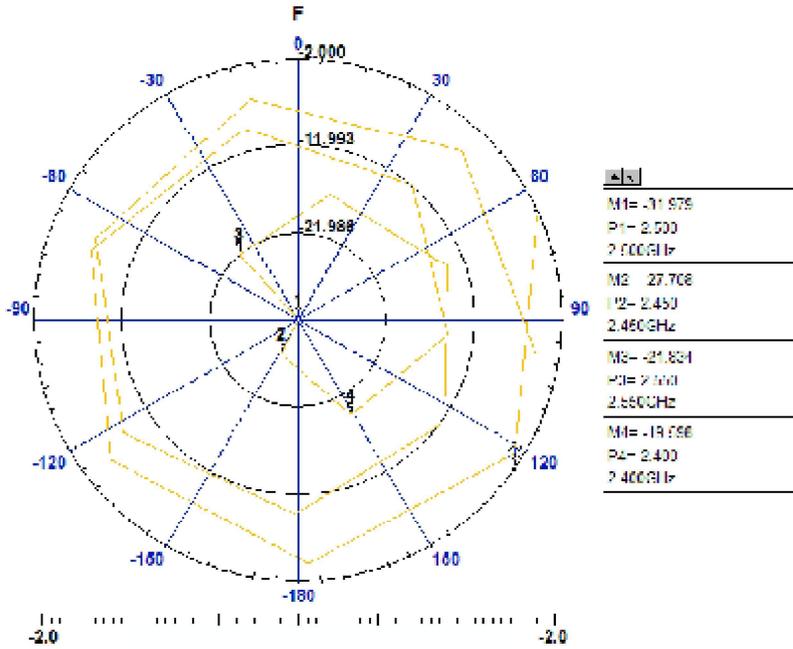
Mkr1: 2400MHz 1.234 Mkr2: 2500MHz 1.051 Mkr3: 2600MHz 1.322



⑤ Return Loss Simulation

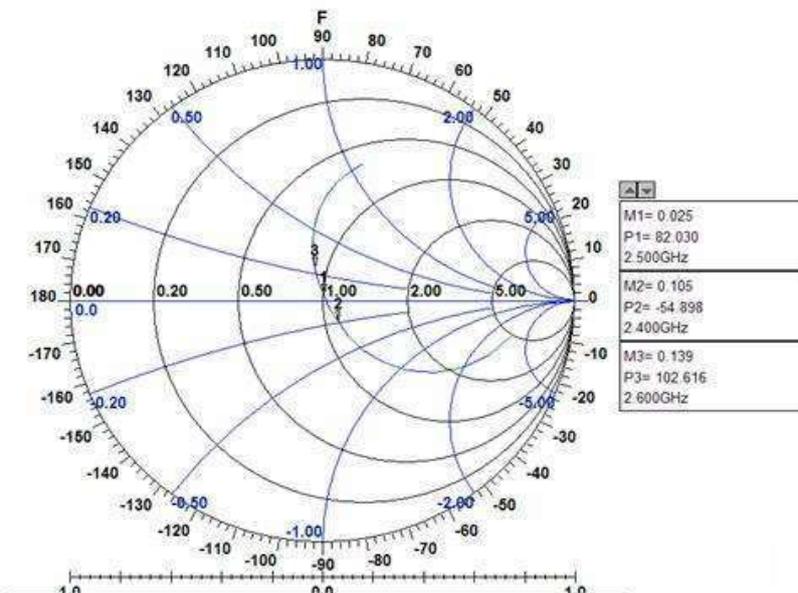
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2550MHz -21.83



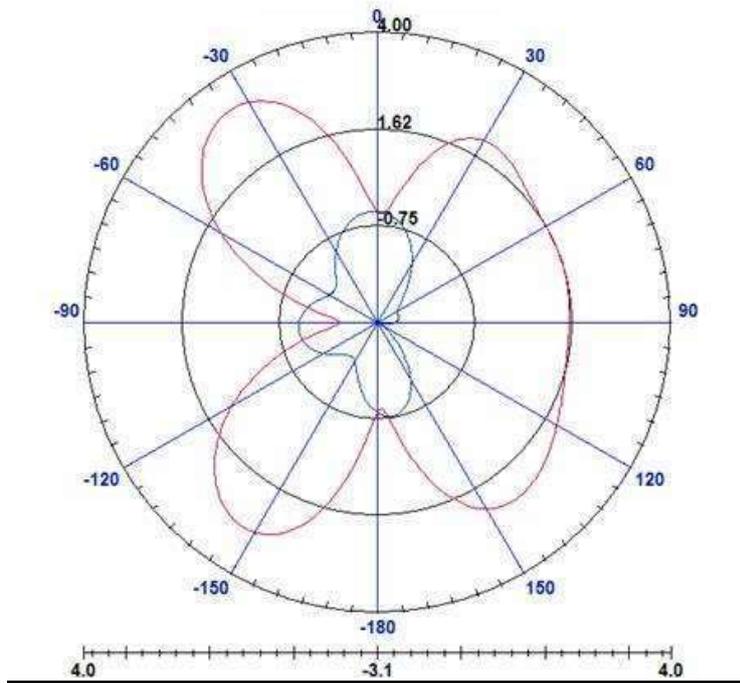
⑥ Phase Simulation

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

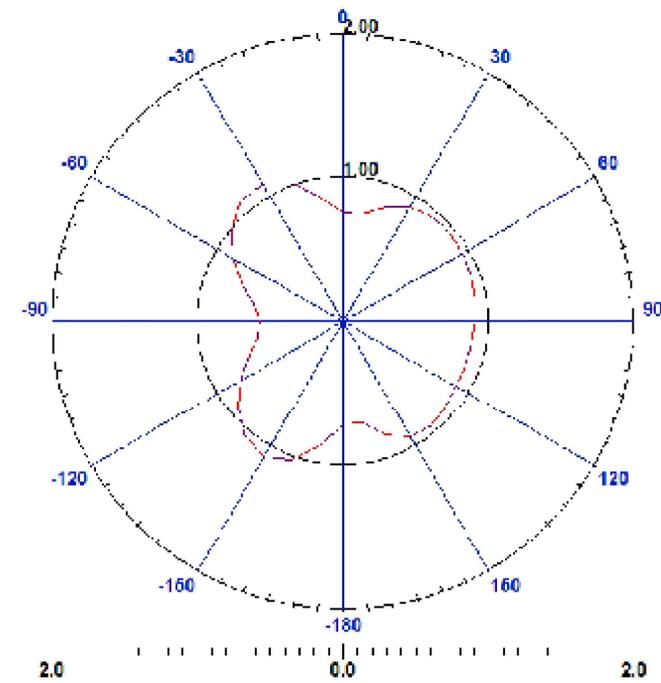


4. Radiation Patterns

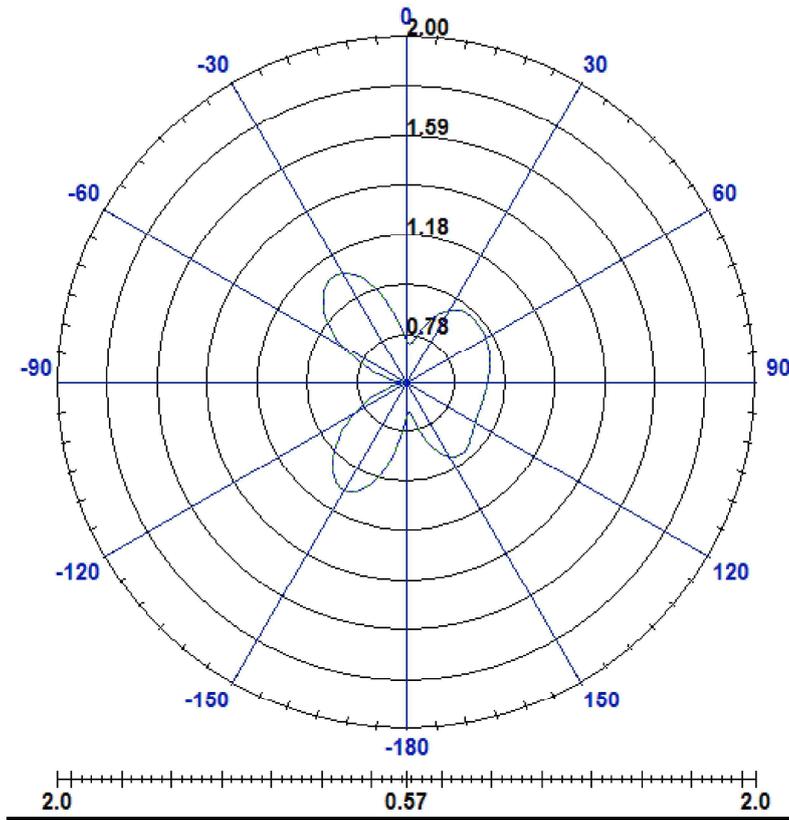
XY-plane



XZ-plane



YZ-plane



3D Radiation Pattern Diagram

