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Antenna specification

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Company Name

Shenzhen Innosystem Technology Ltd

Company address

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

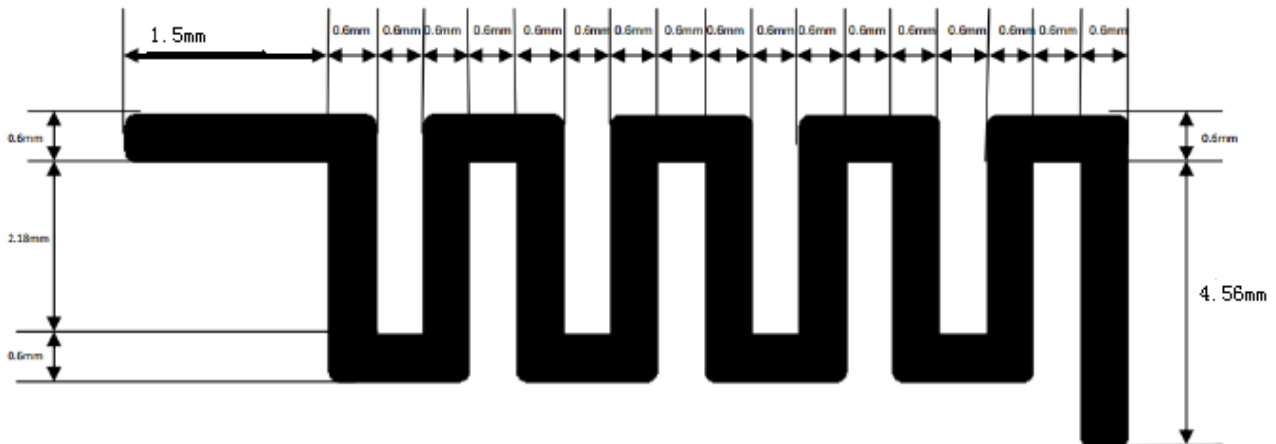
Antenna model: MARB AT V1.0

Applications

※Bluetooth Home RF

※ISM band 2.4GHz applications

1. Dimensions



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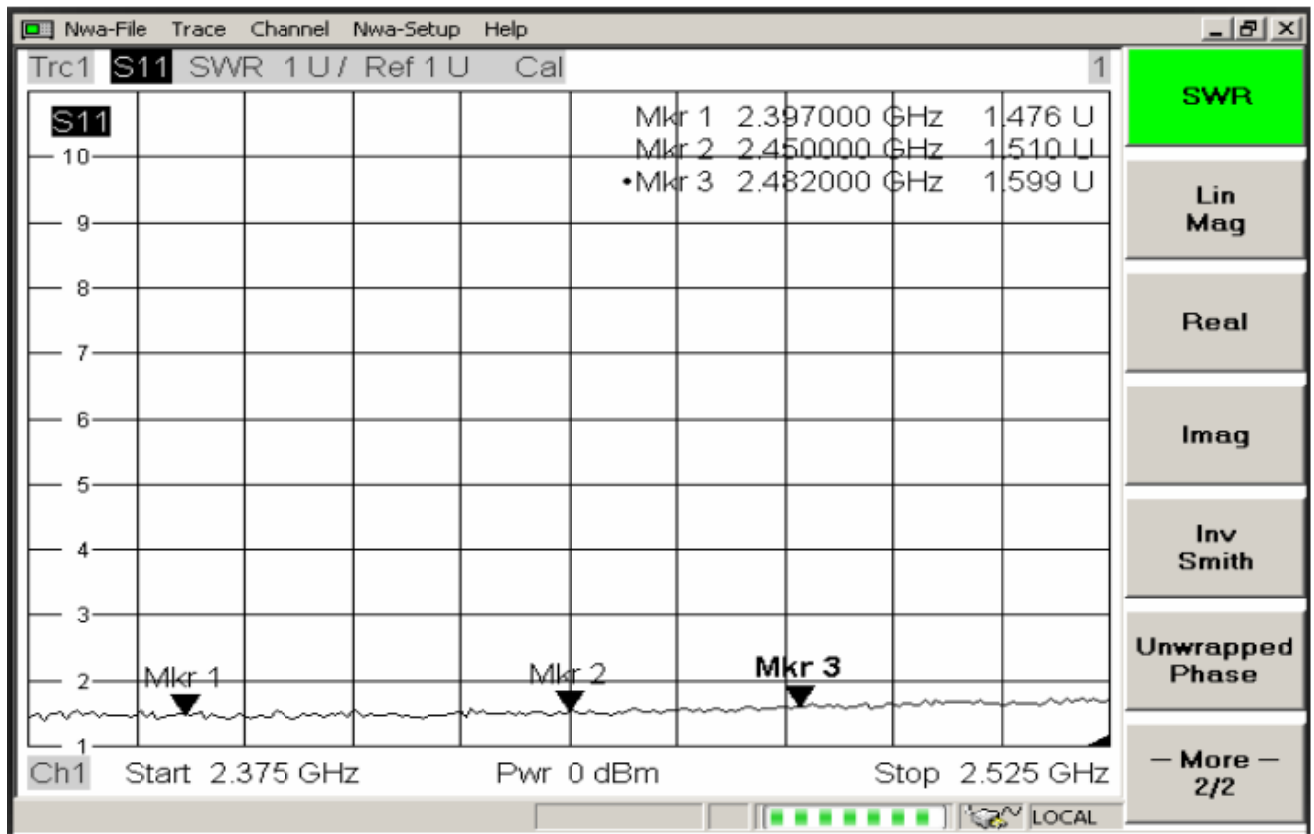
2. Specifications

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

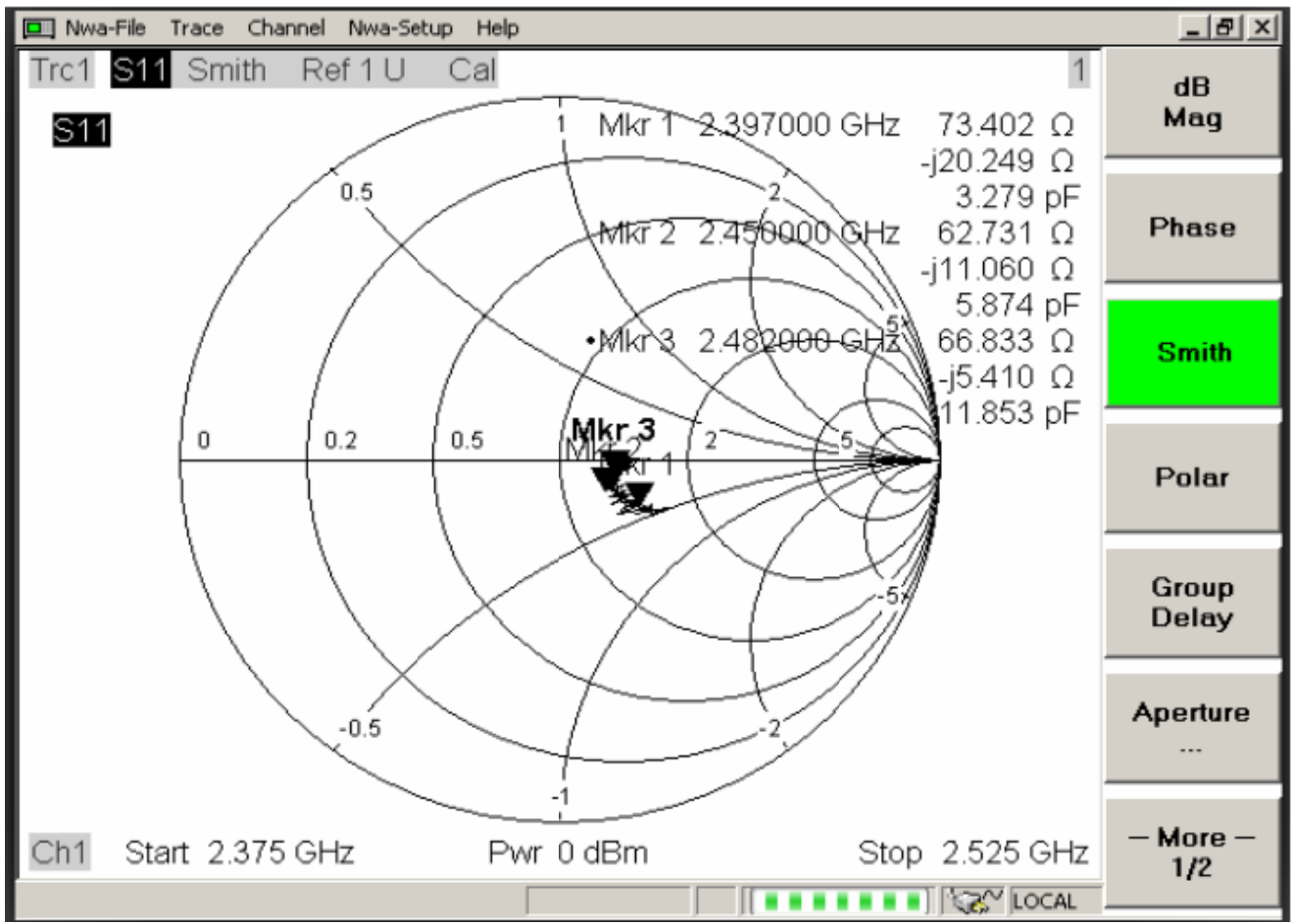
Mkr1: 2397MHz 1.47 Mkr2: 2450MHz 1.51 Mkr3: 2482 MHz 1.59



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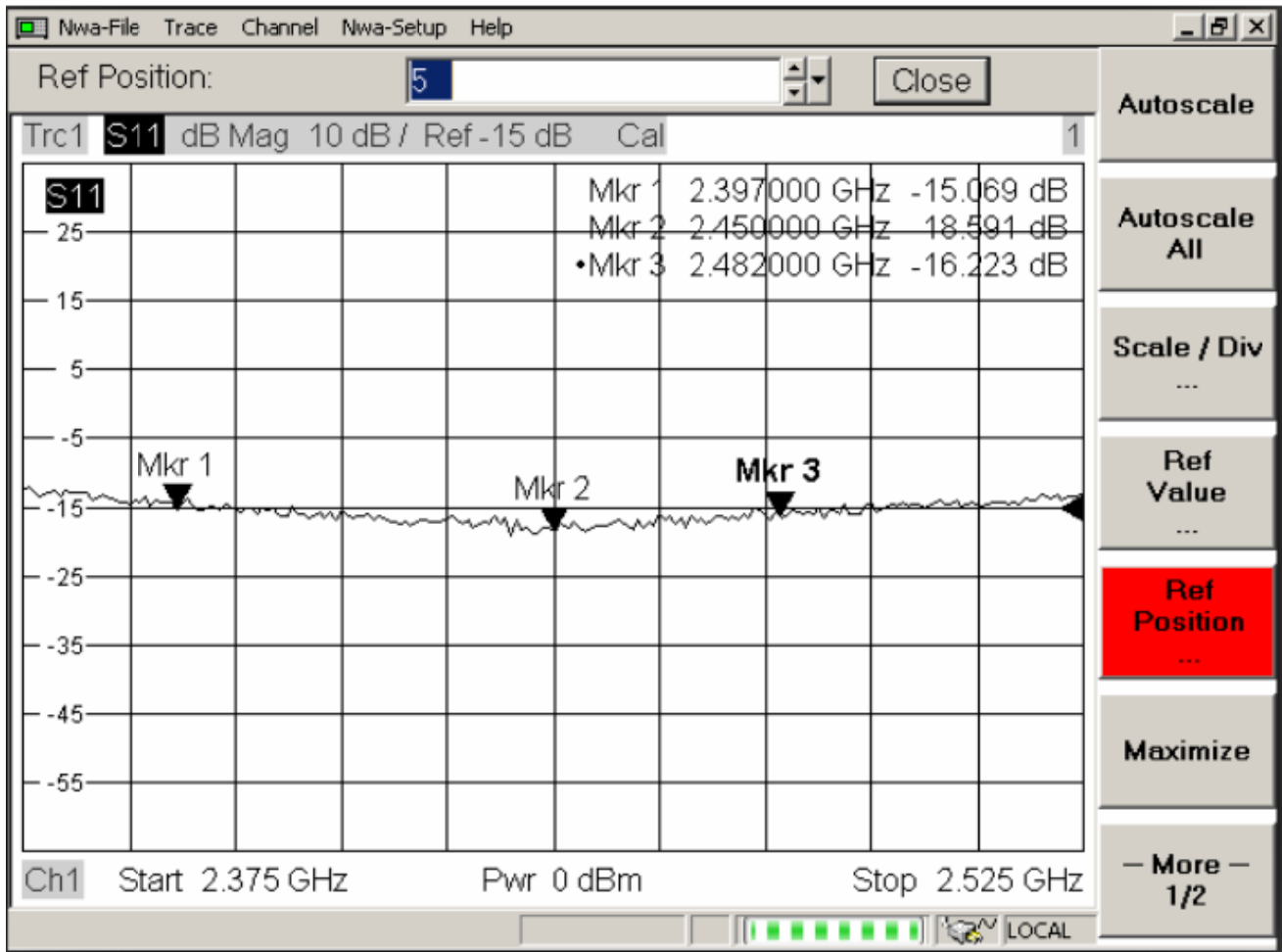
②Smith Char

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



③Return Loss

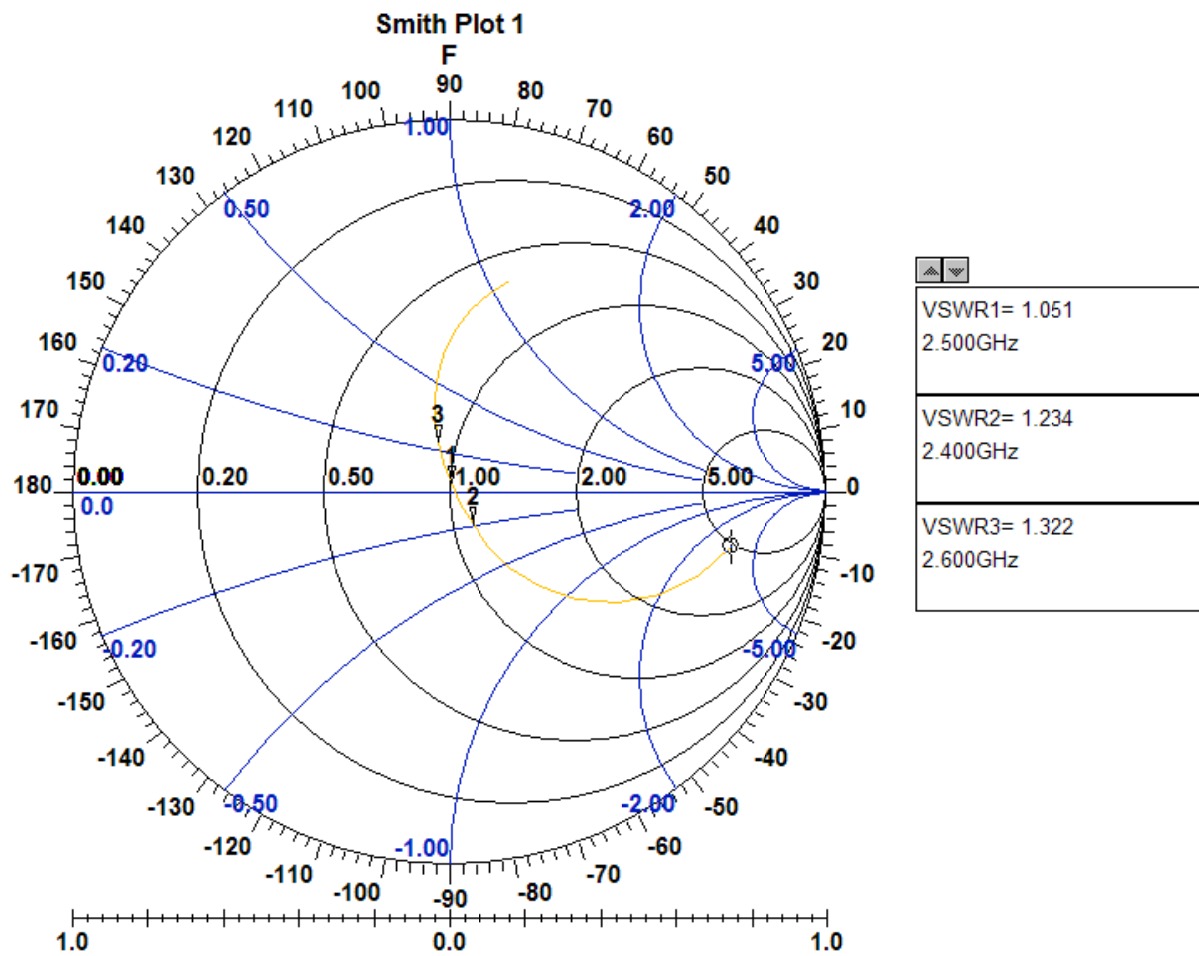
Mkr1: 2397MHz -15 Mkr2: 2450MHz -18 Mkr3: 2482 MHz -16



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④Smith Char

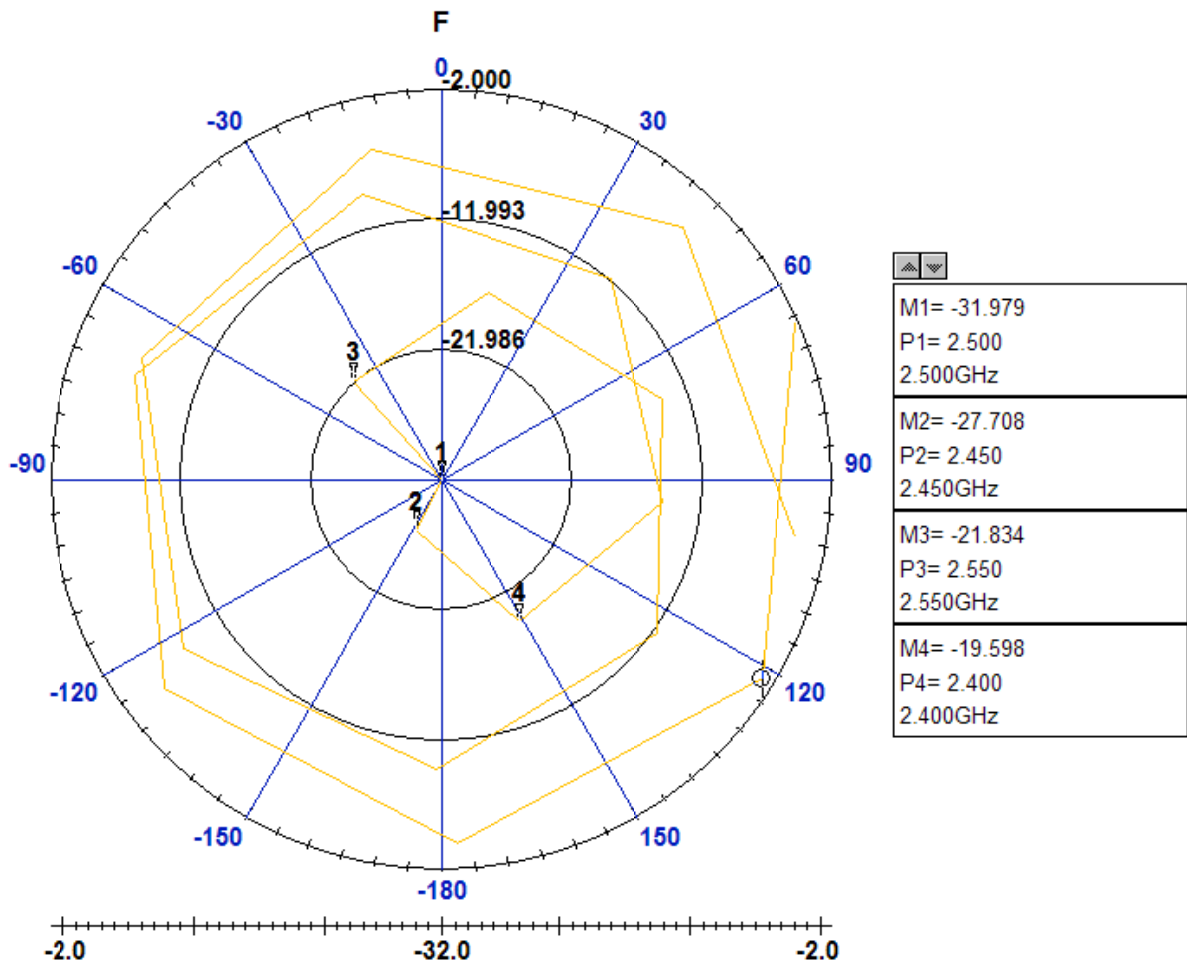
Mkr1: 2400MHz 1.234 Mkr2: 2500MHz 1.051Mkr3: 2600MHz 1.322



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⑤Return Loss

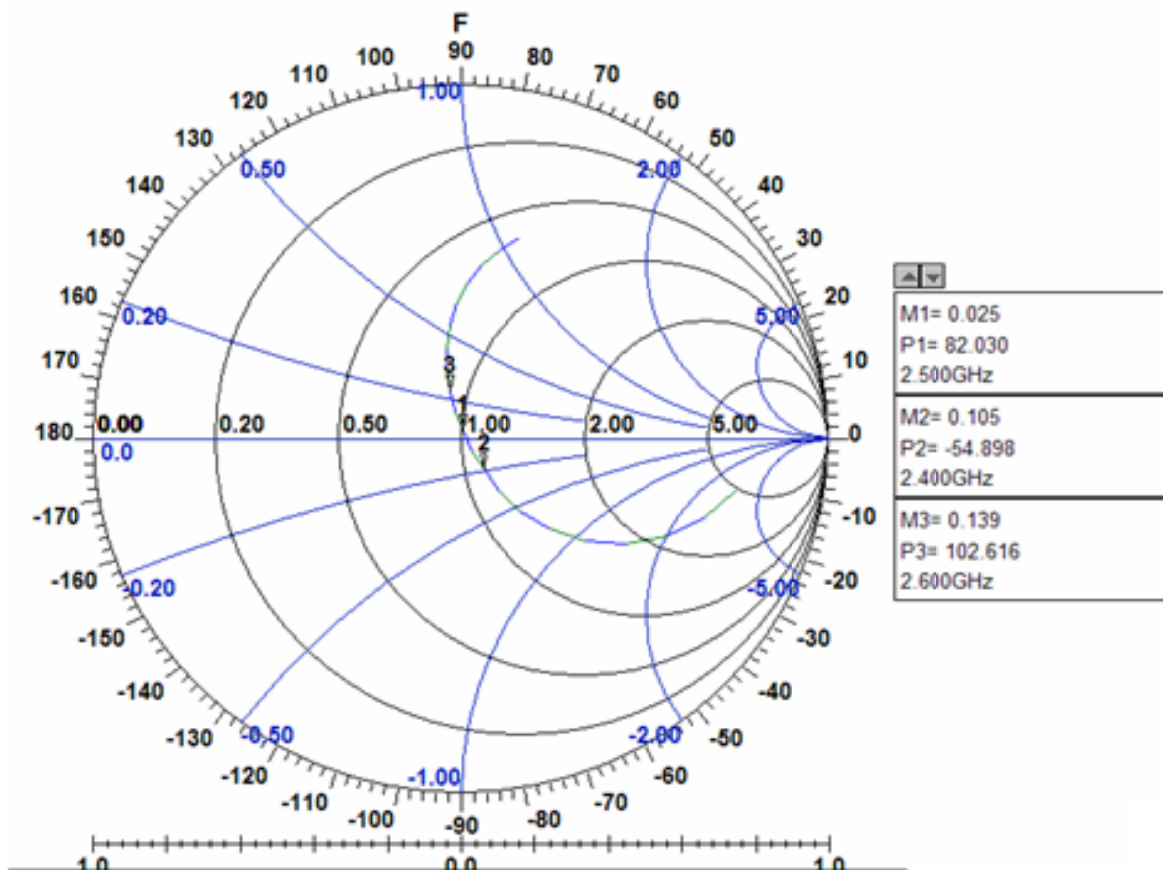
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70Mkr3: 2500MHz -31.97 Mkr4:
2550MHz -21.83



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⑥Phase

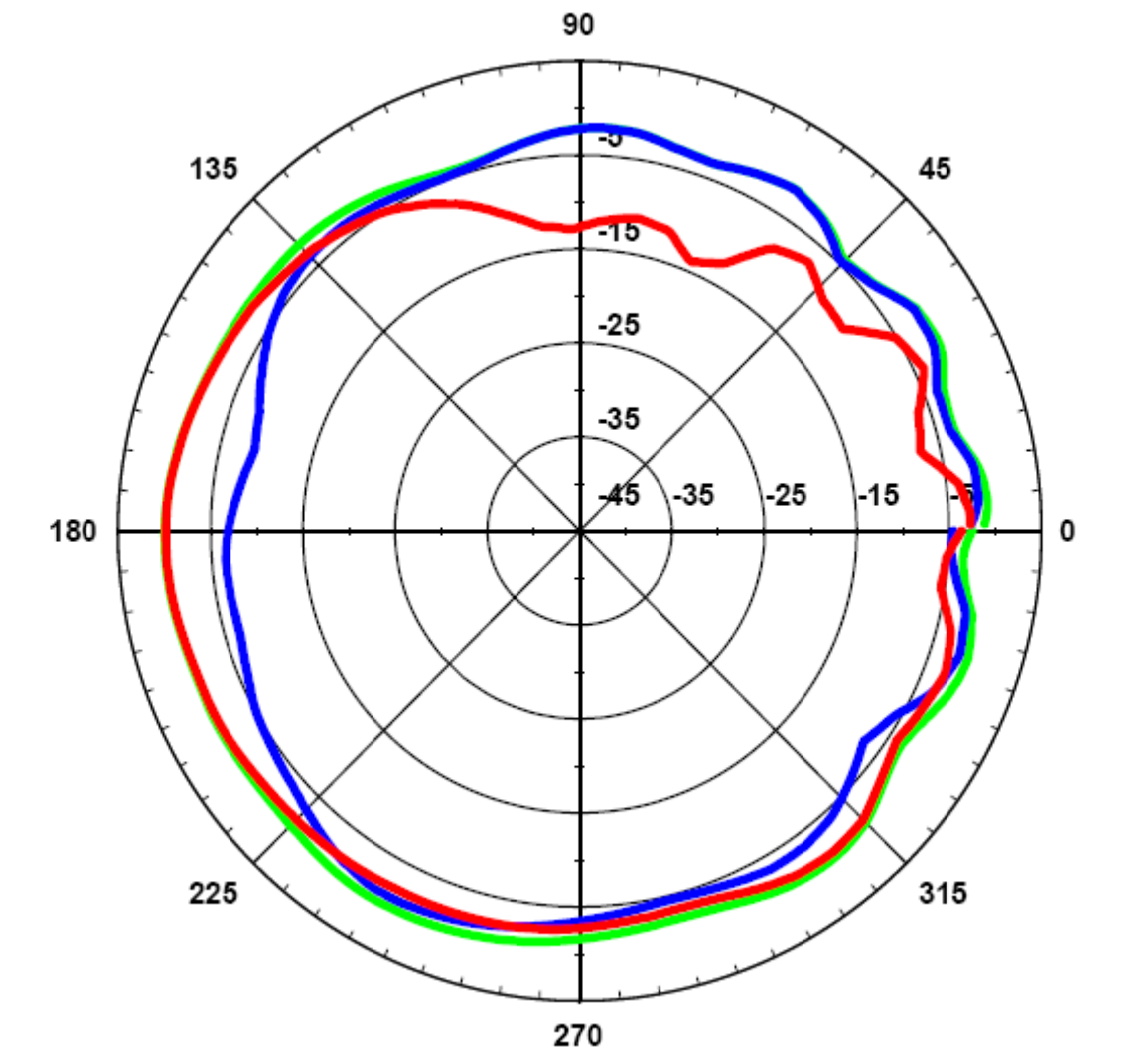
Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.03 Mkr3: 2600MHz -102.6



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4. Radiation Patterns

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



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- 3DRadiation pattern

