

Antenna specification

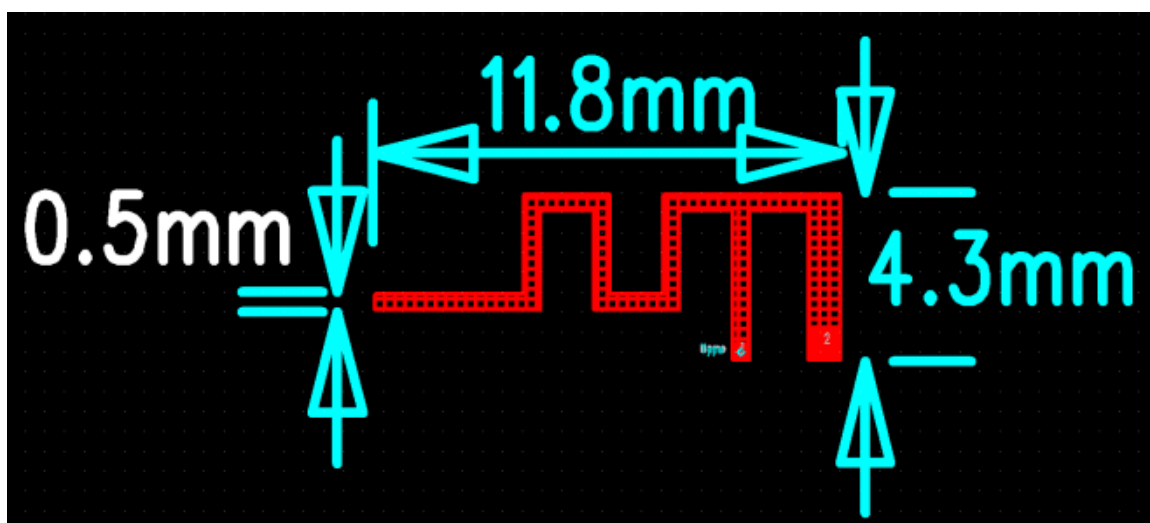
Manufacturer: SHENZHEN ALANTE TECHNOLOGY CO LTD
Area B, 3rd Floor, Building 2, No. 2 Factory Building, Songgang Section, Guangshen Road, Tantou Community, Songgang Street, Bao'an District, Shenzhen City, and 3rd Floor, Building 3

Applications

※Bluetooth Home RF

※ISM band 2.4GHz applications

1. Dimensions

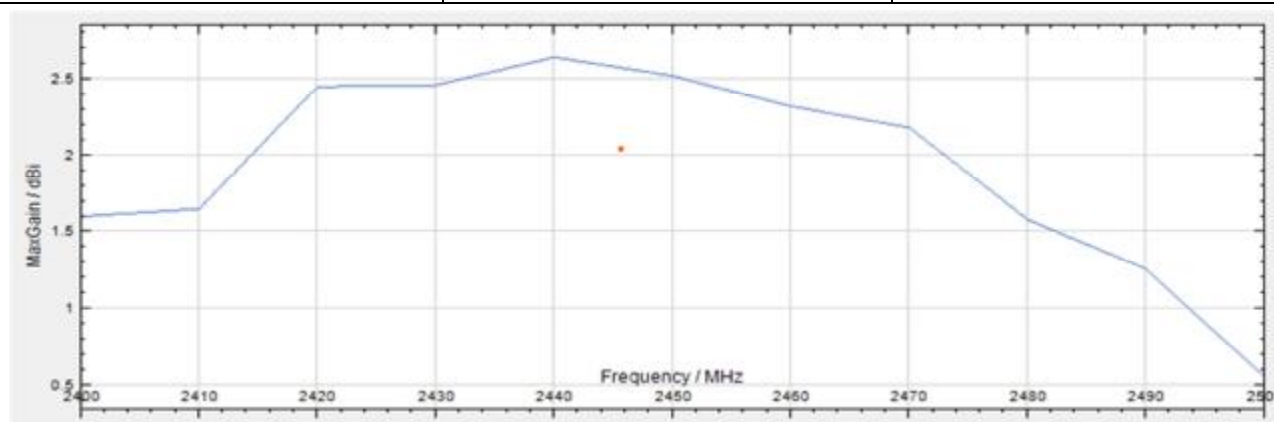


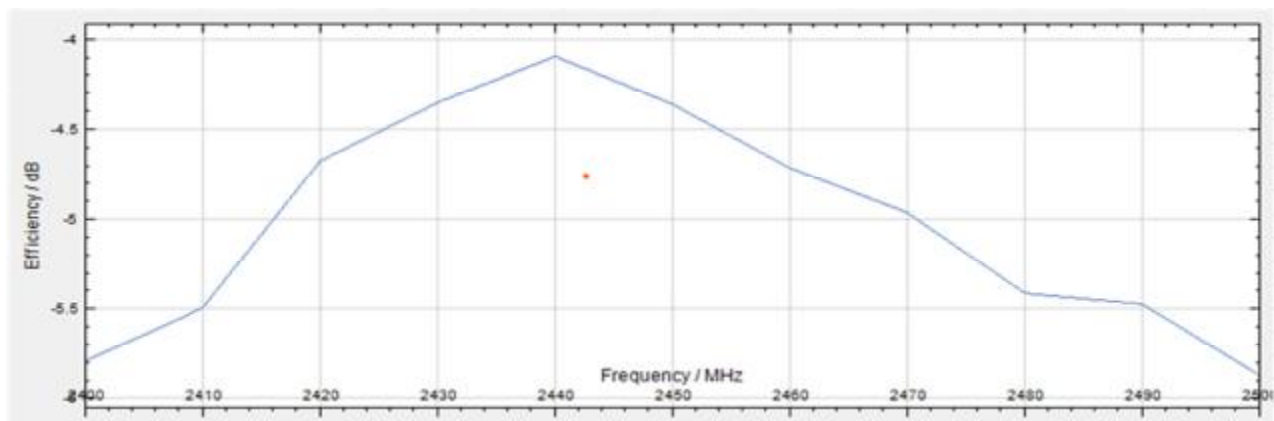
2. Specifications

number	Item	Specifications
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1	Working Central Frequency	2450 MHz
2	Band Width	(2400-2500)MHz
3	Gain	2.64 dBi
4	VSWR	≤ 2.0
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50 欧姆
8	Model	2.4GHz PCB ANT

Fred(MHz)	Effi (dB)	Cain(dBi)
2400	-5.79	1.6
2410	-5.49	1.65
2420	-4.67	2.45
2430	-4.35	2.46
2440	-4.09	2.64
2450	-4.36	2.52
2460	-4.71	2.32
2470	-4.96	2.18
2480	-5.41	1.58
2490	-5.47	1.26
2500	-5.87	0.56





3. Instrument testing, software simulation parameters

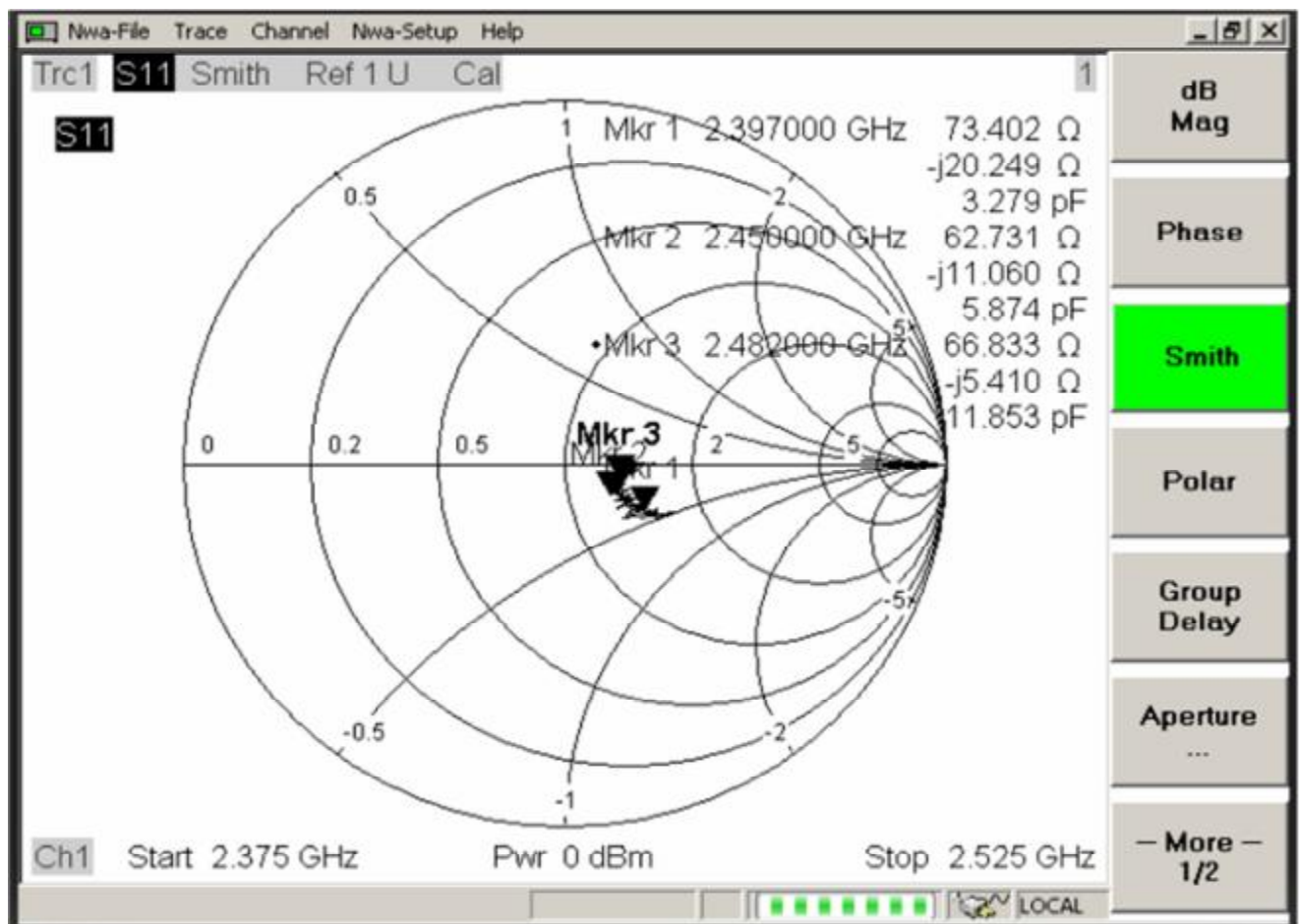
① VSWR

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



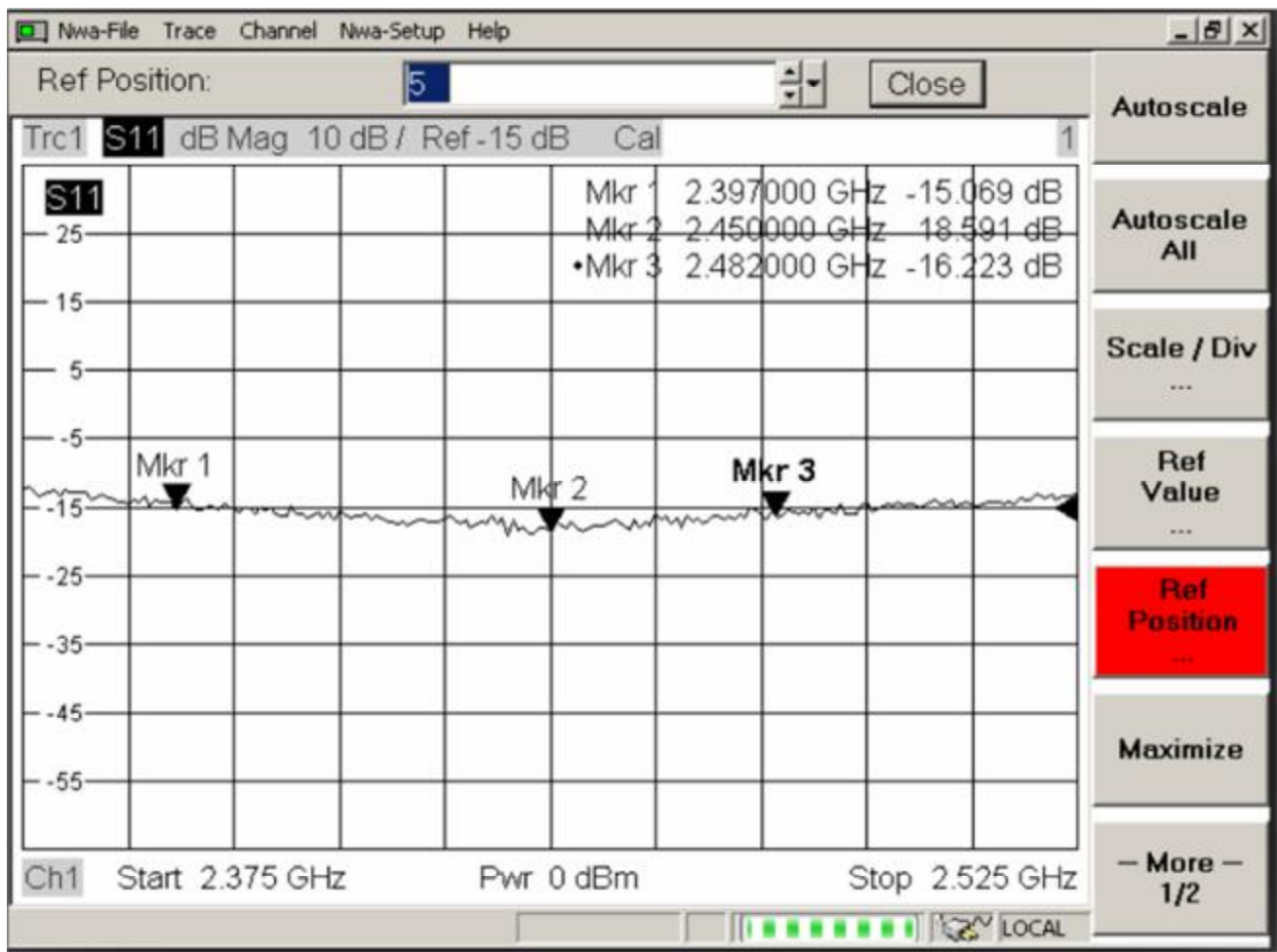
②Smith Char

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



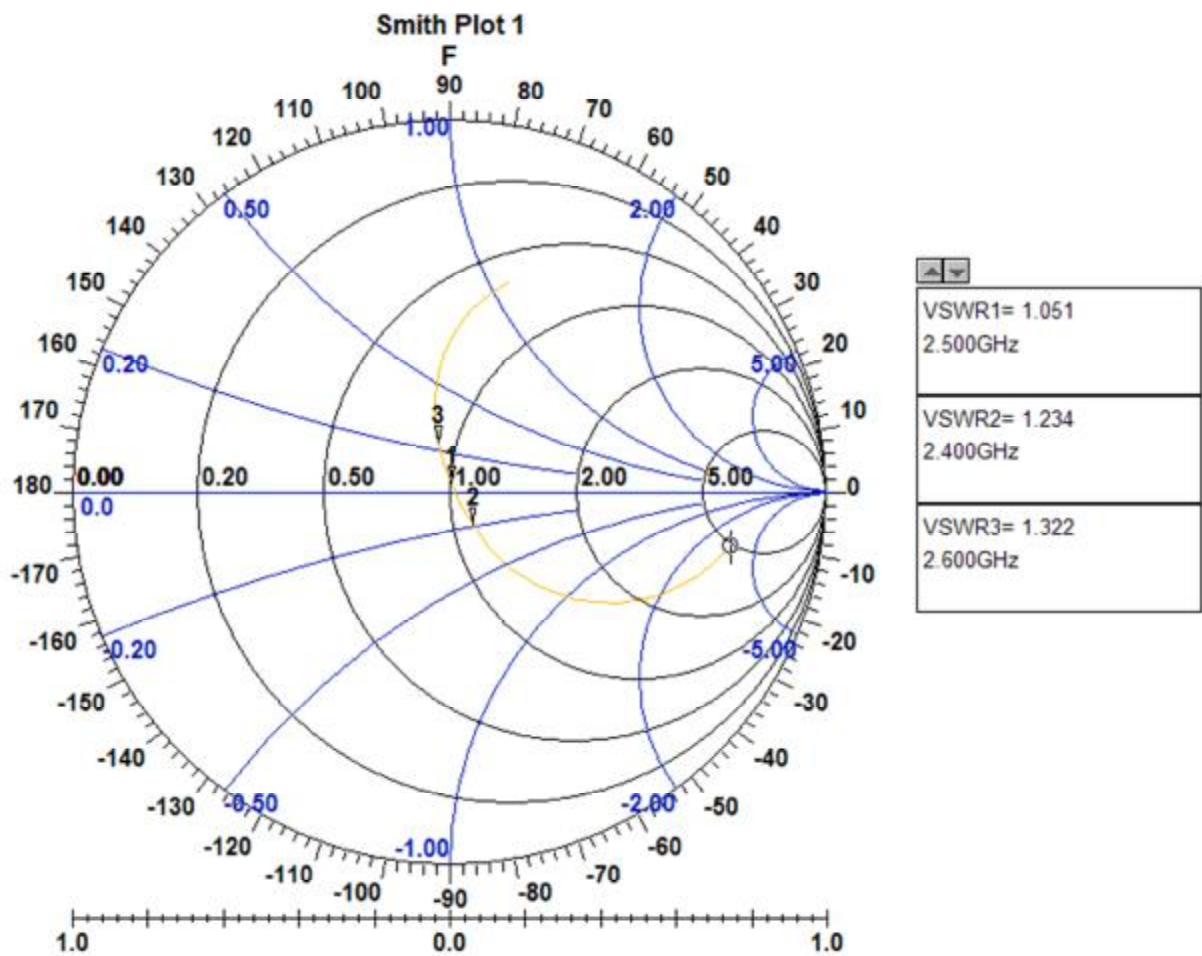
③Return Loss

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



④Smith Char The simulation

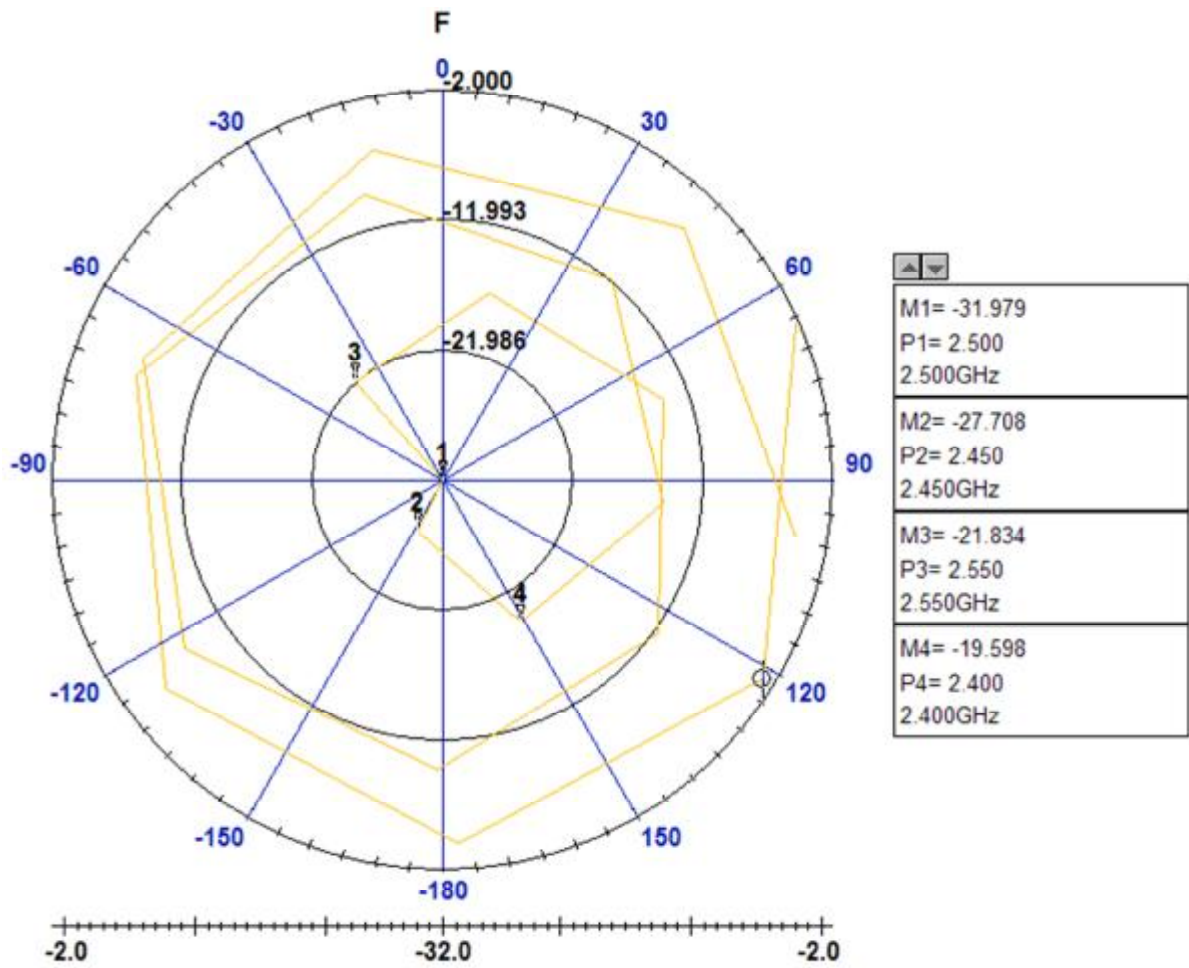
Mkr1: 2400MHz 1.234 Mkr2: 2500MHz 1.051 Mkr3: 2600MHz 1.322



⑤Return Loss The simulation

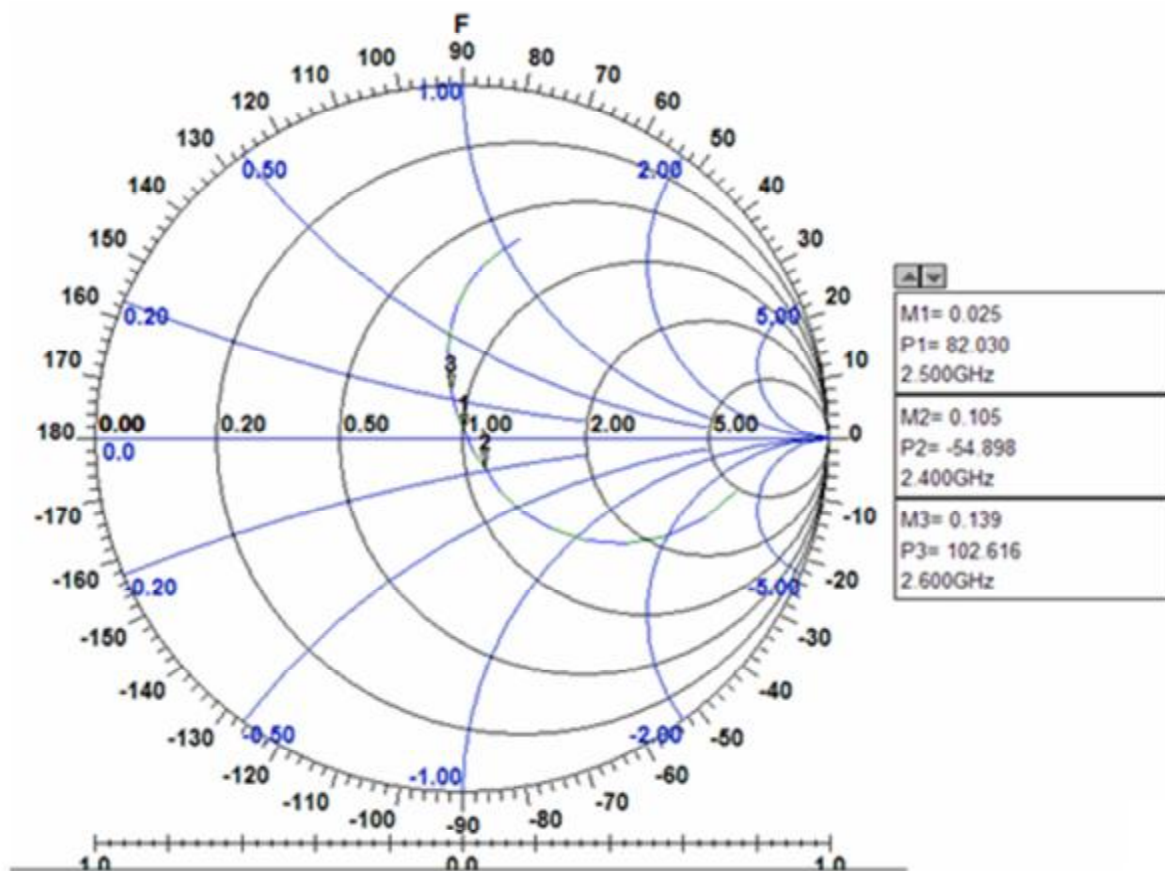
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2550MHz -21.83



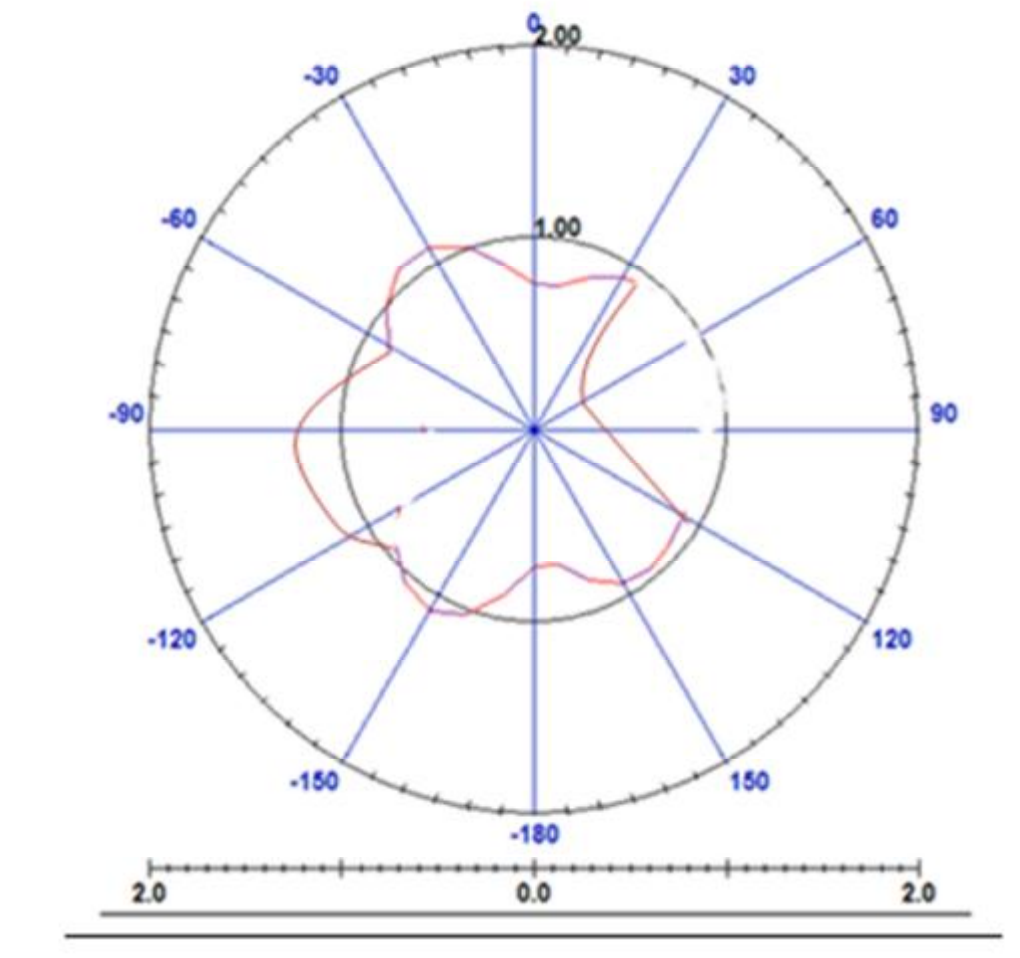
⑥Phase The simulation

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

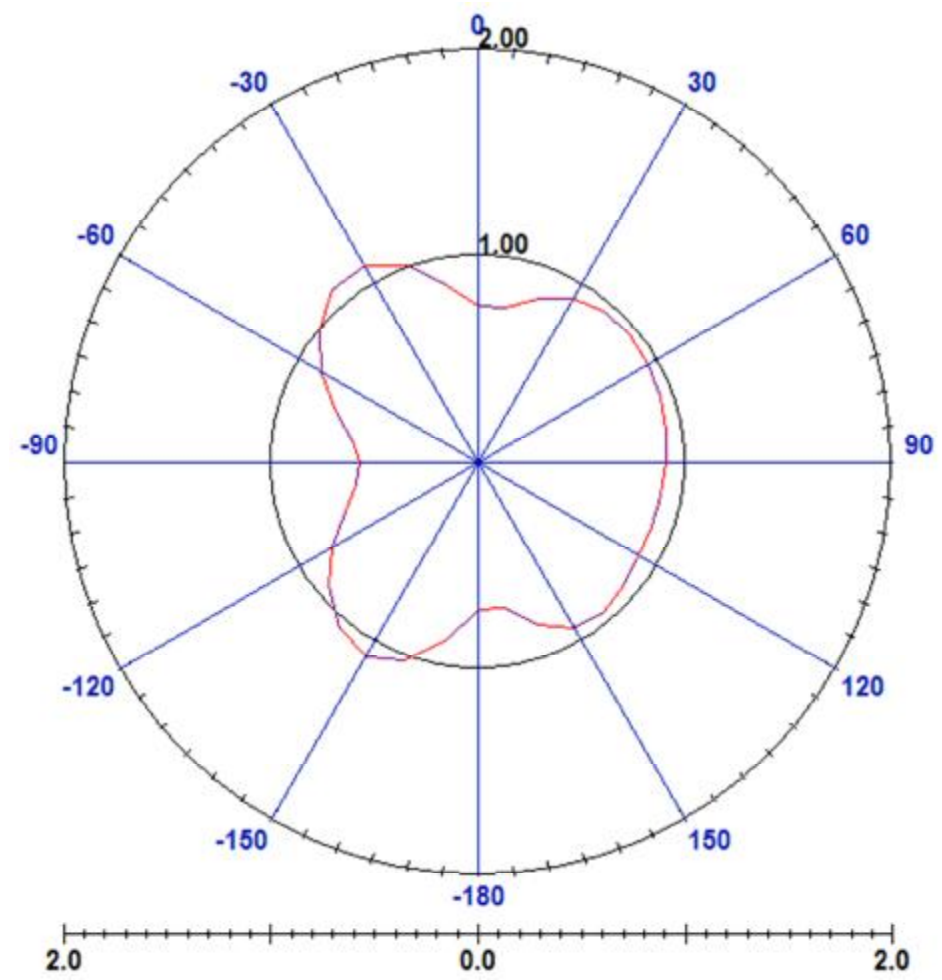


4. Radiation Patterns

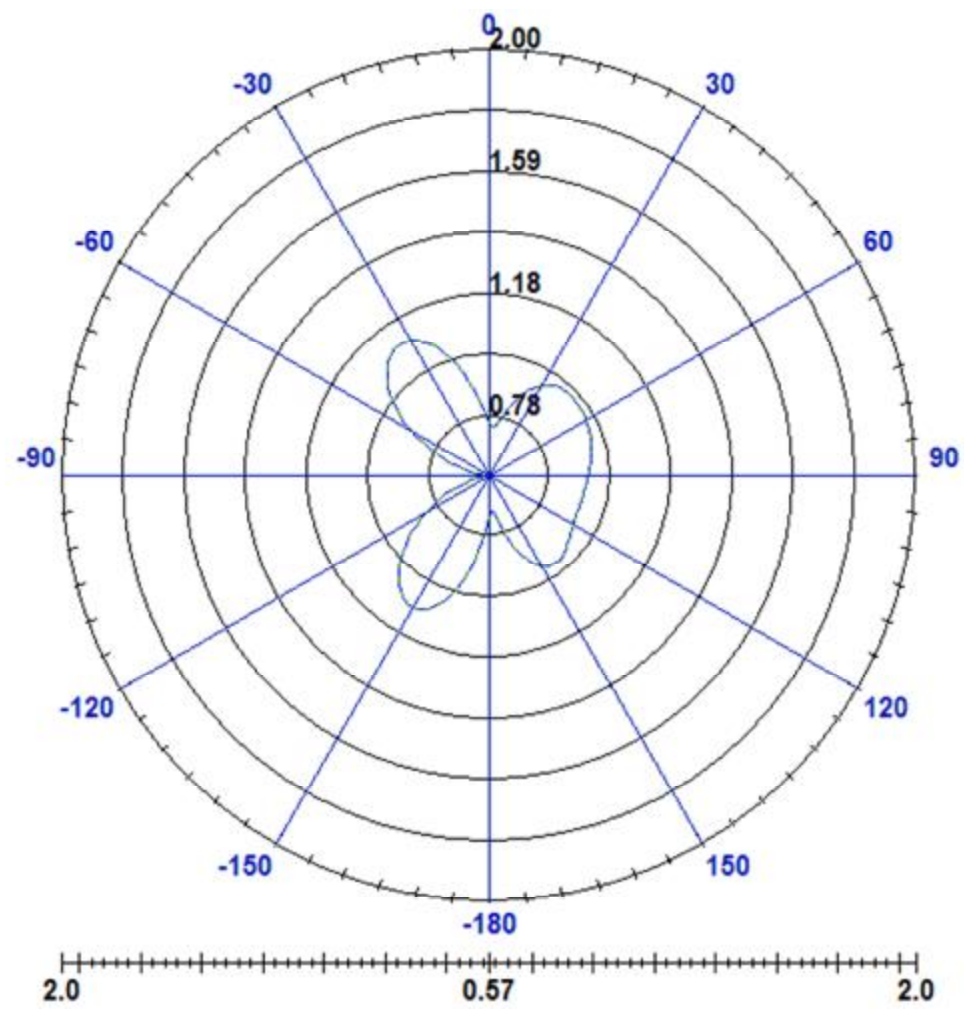
XY-plane



XZ-plane



YZ-plane



3D Radiation field type

