

Shenzhen Xinxiang Culture Technology Co., Ltd.
RoomD1001, Building A3, No. 2533 Guanguang Road, Fenghuang Community,
Fenghuang Street, Guangming District, Shenzhen, China

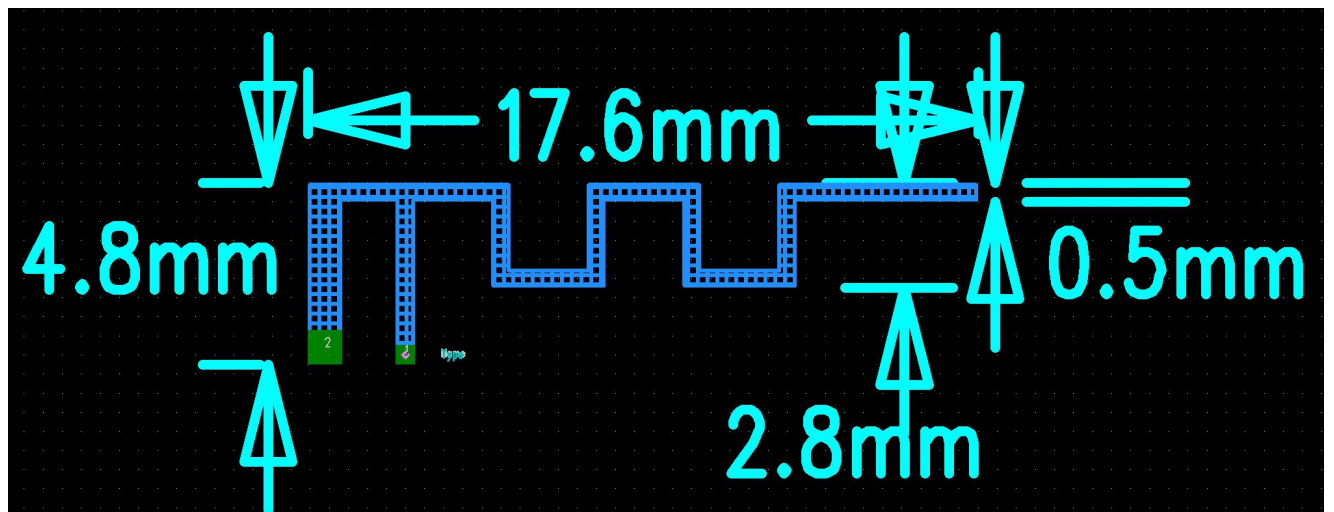
Antenna specification

APPlications

※Bluetooth Home RF

※ISM band 2.4GHz applications

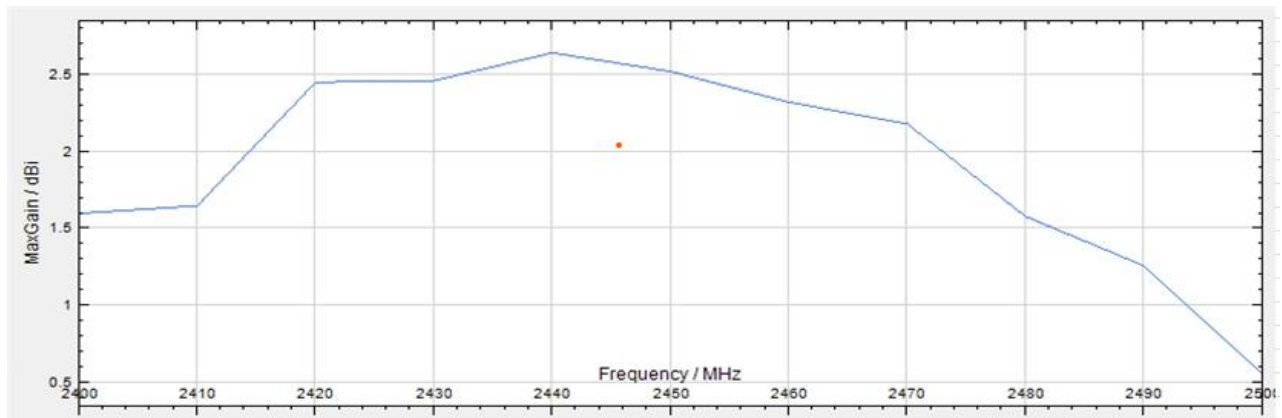
1.Dimensions

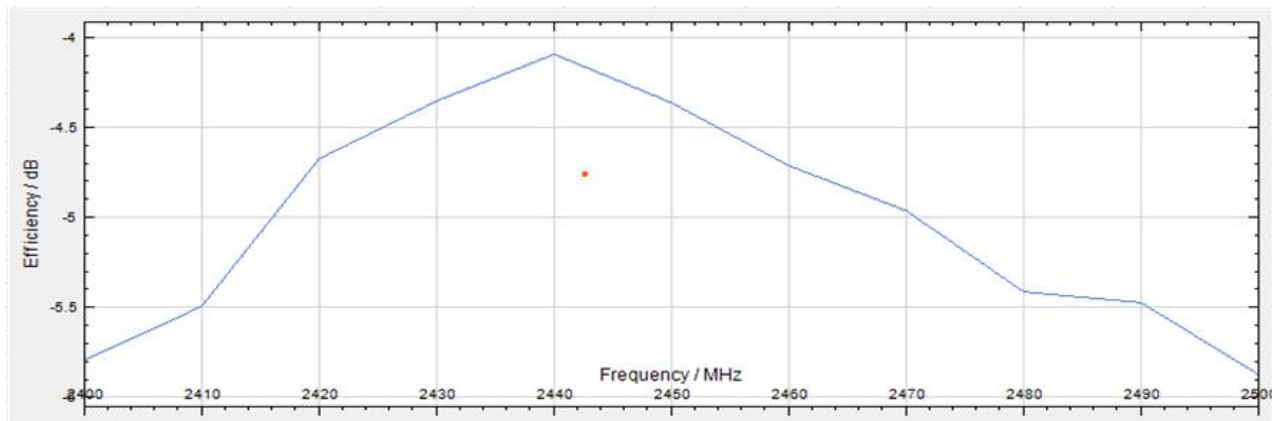


2.Specifications

number	Item	Specifications
1	Working Central Frequency	2441 MHz
2	Band Width	(2402-2480)MHz
3	Gain	2.64dBi (Max)
4	VSWR	≤ 2.0
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50 欧姆
8	Model	2.4G 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

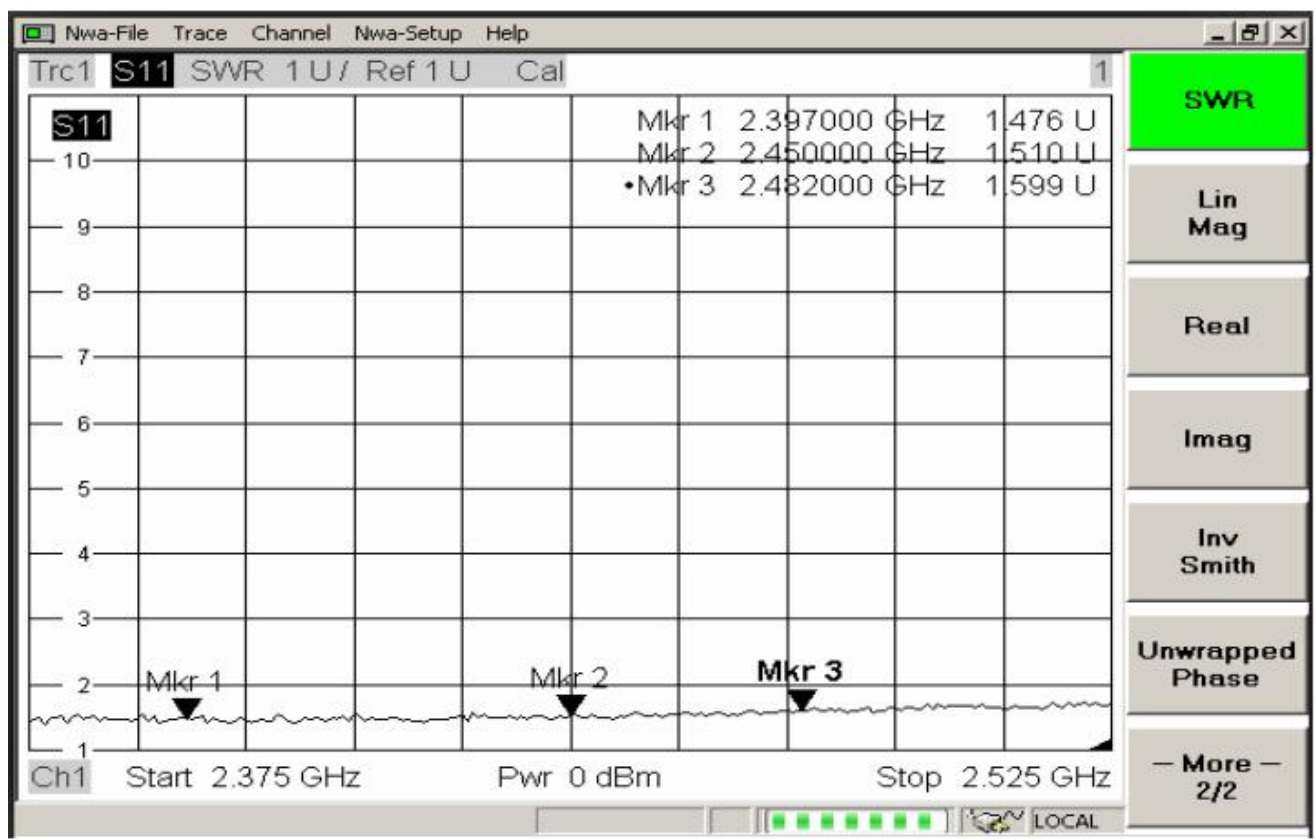




3. Instrument testing, software simulation parameters

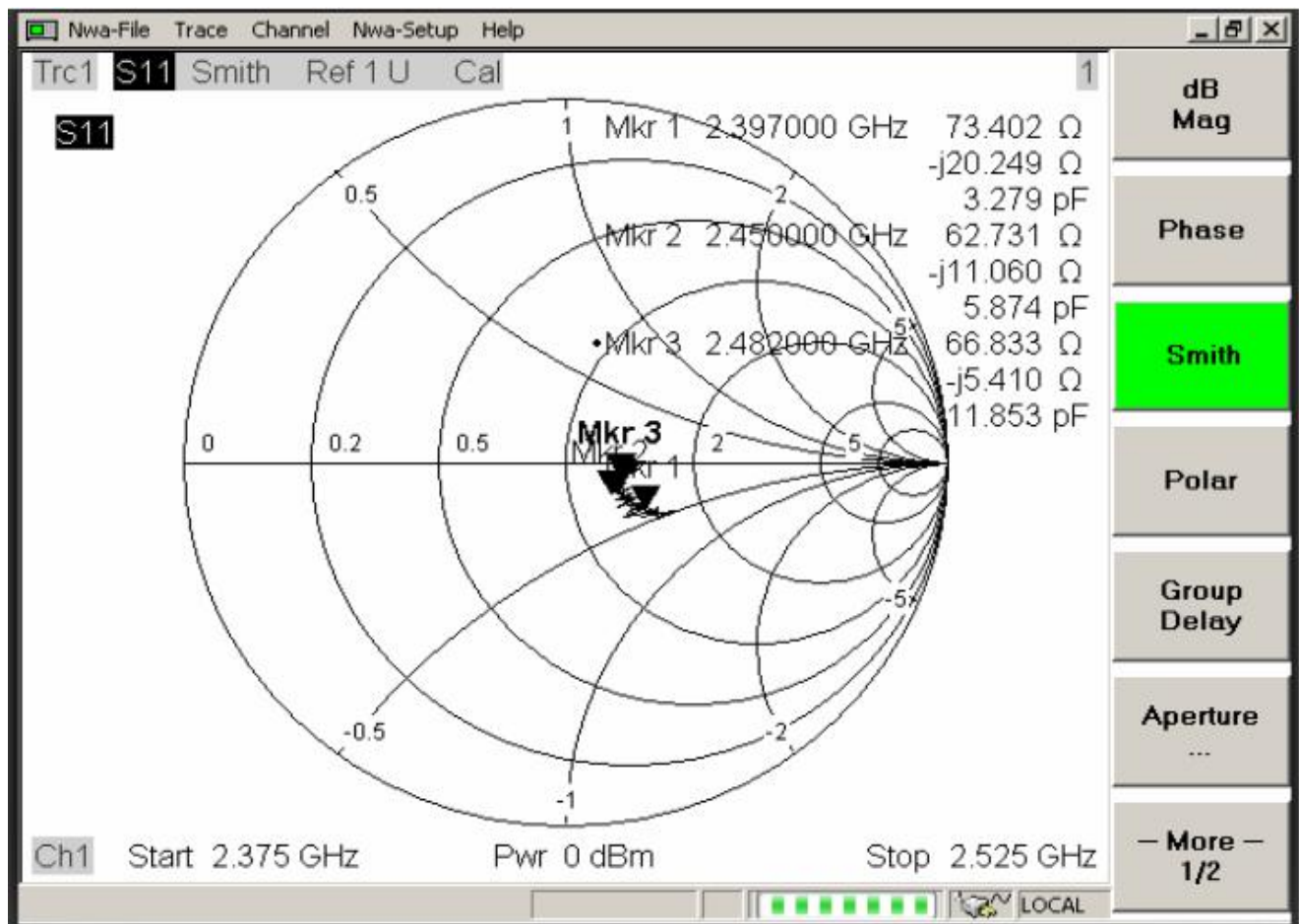
① VSWR

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



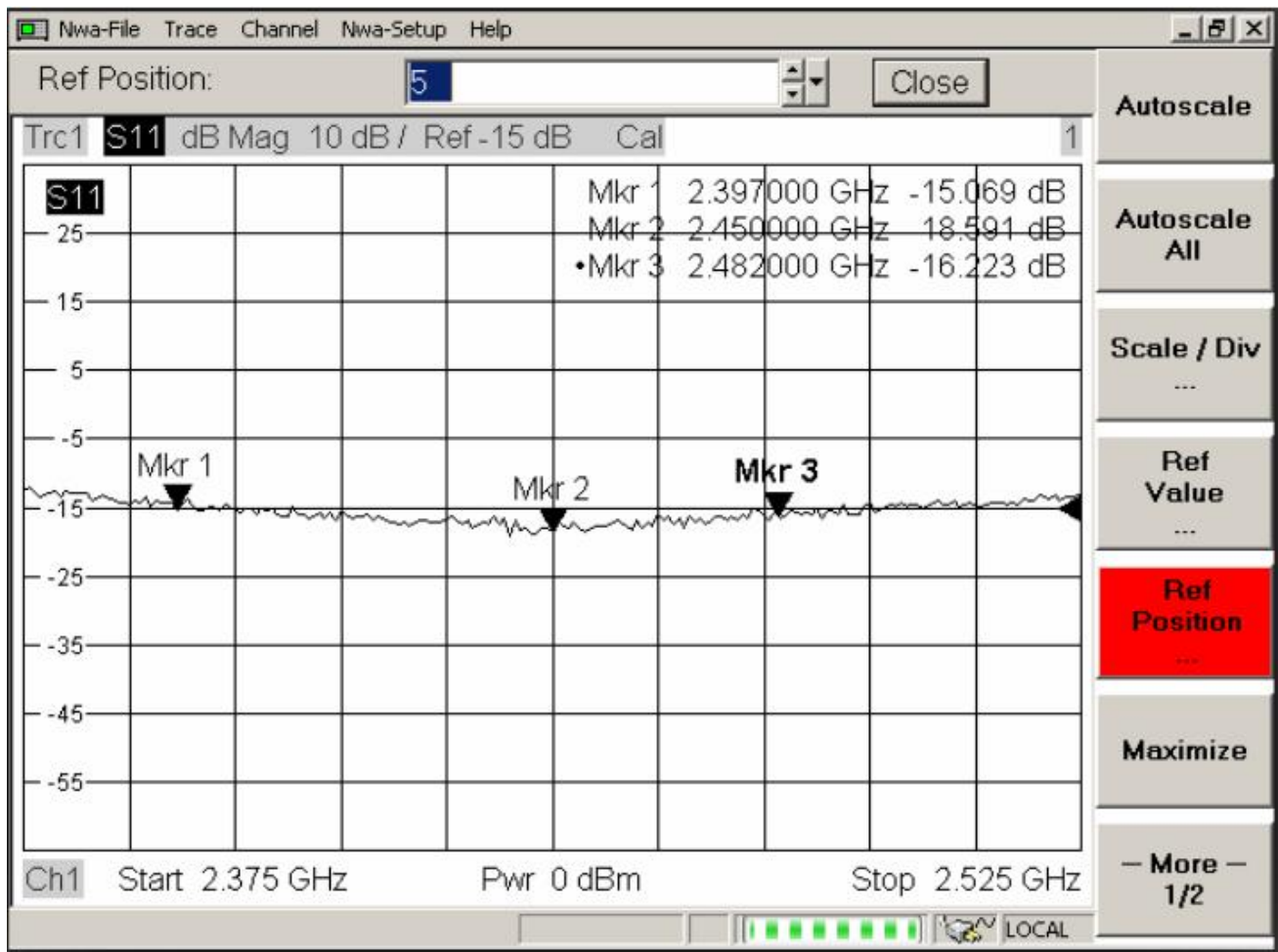
②Smith Char

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



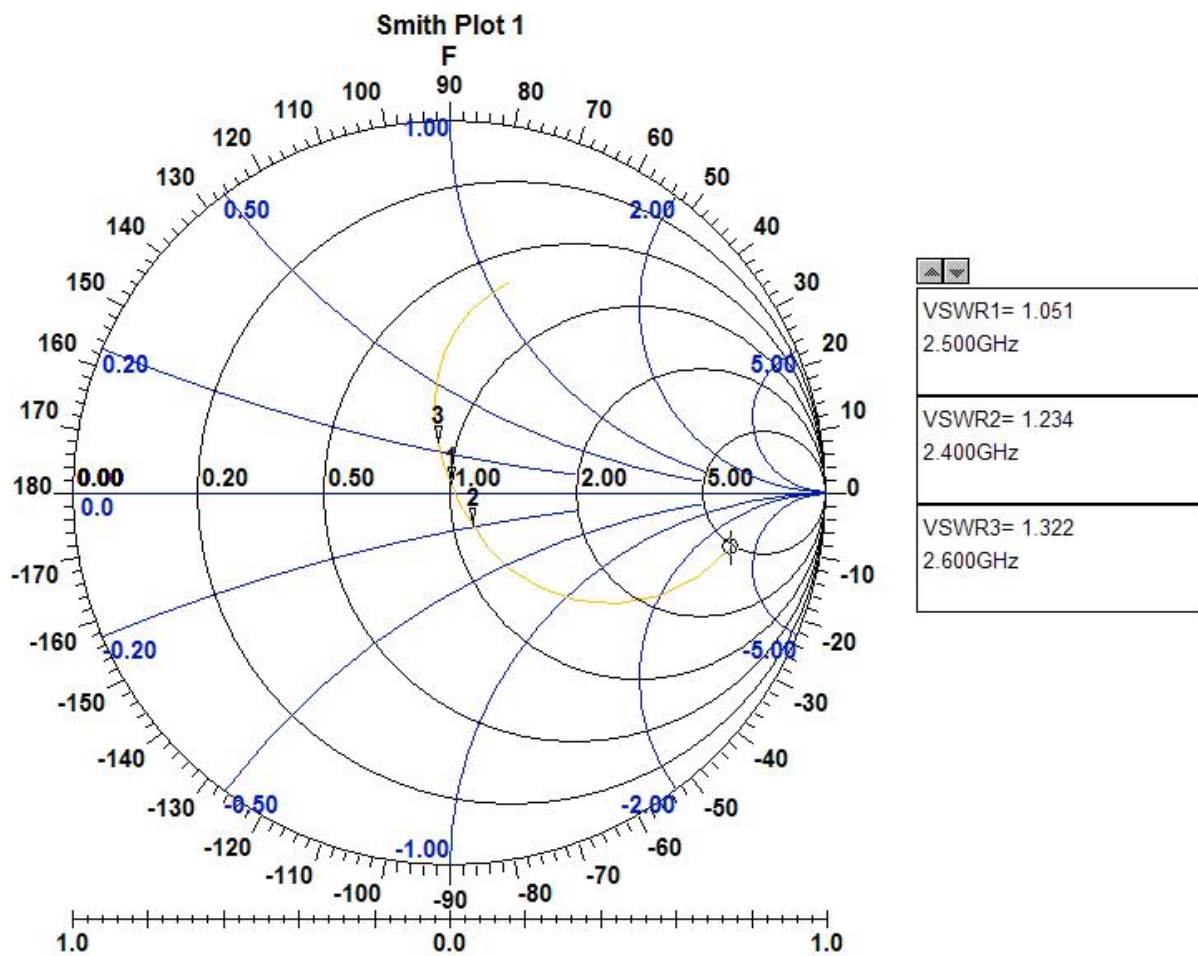
③Return Loss

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



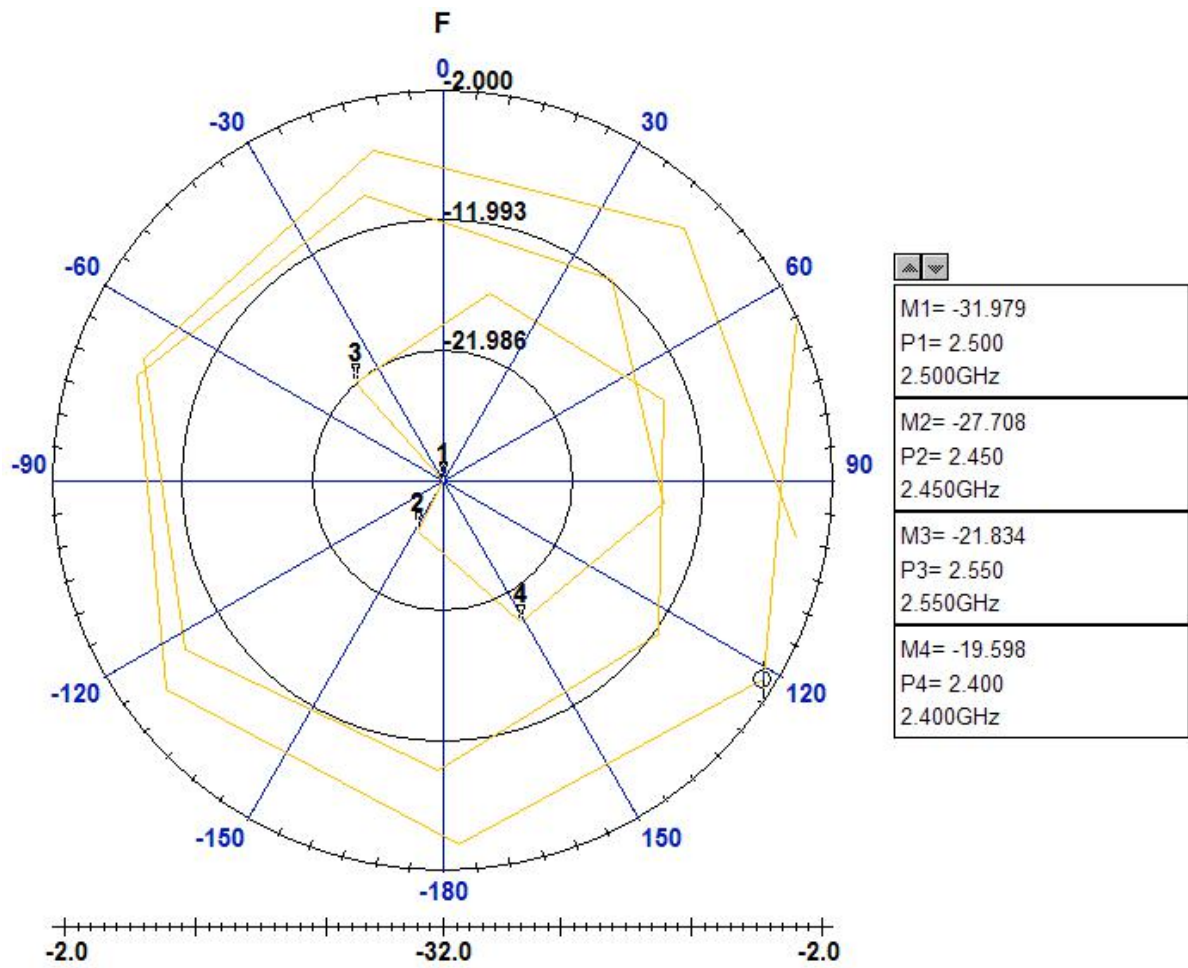
④Smith Char The simulation

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



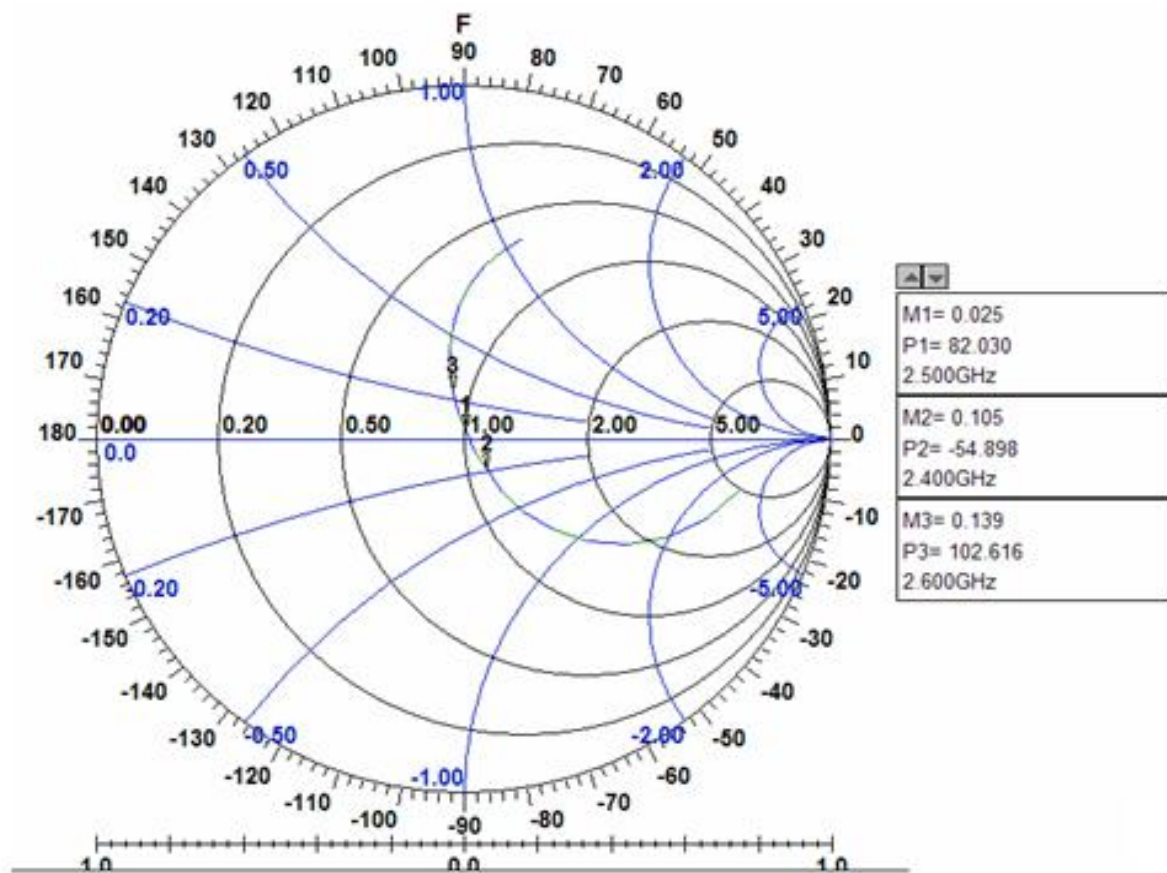
⑤Return Loss The simulation

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

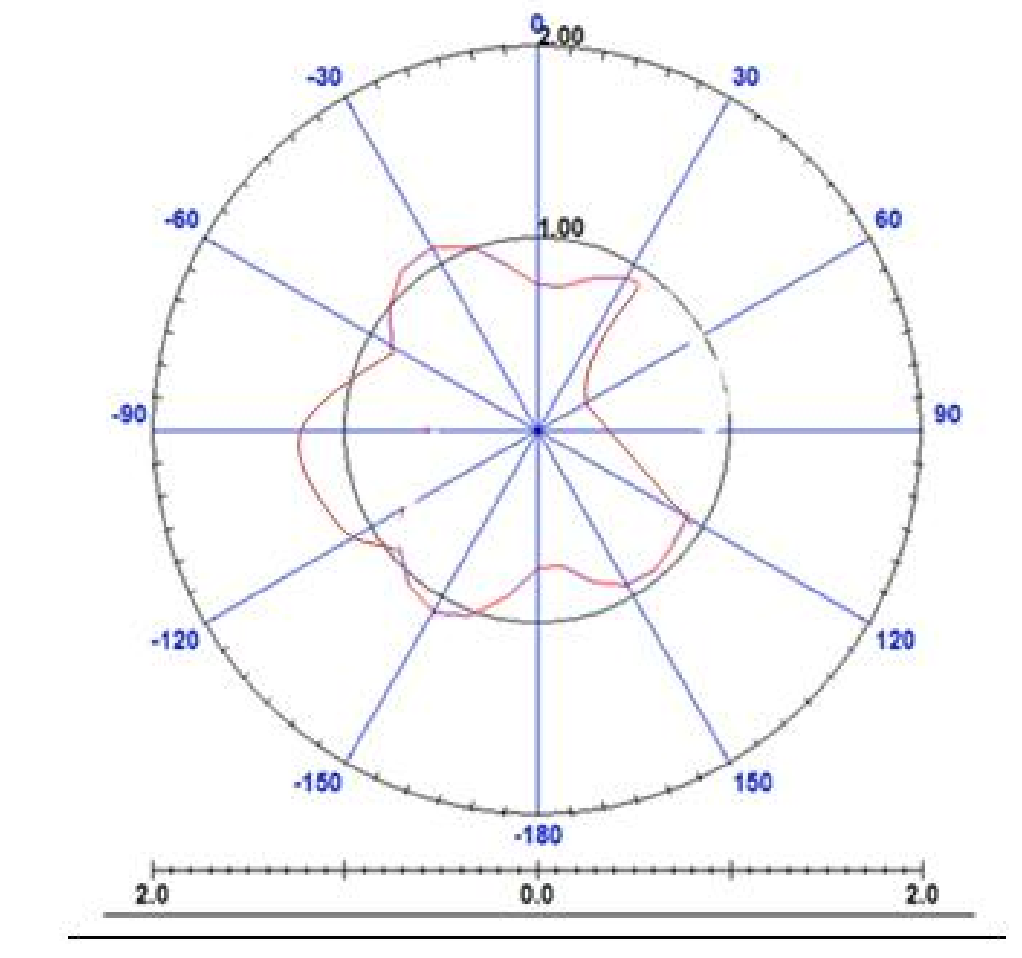


⑥Phase The simulation

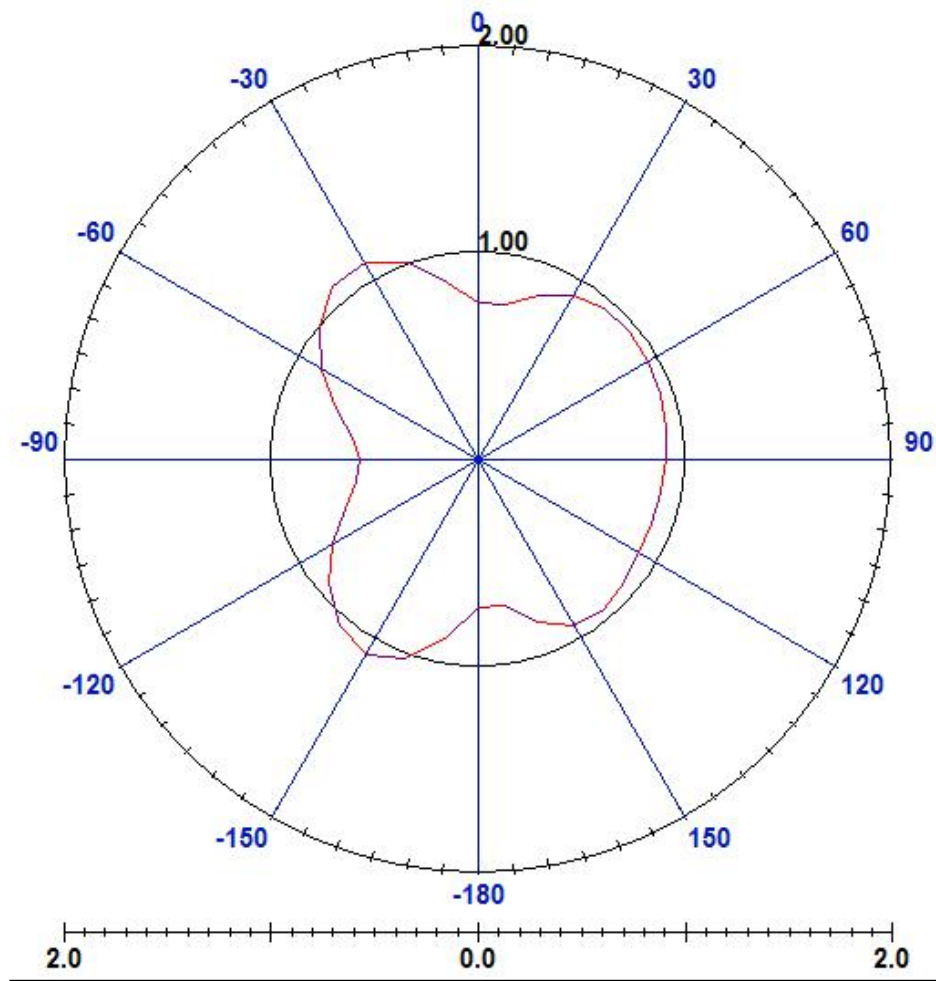
Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.03 Mkr3: 2600MHz -102.6



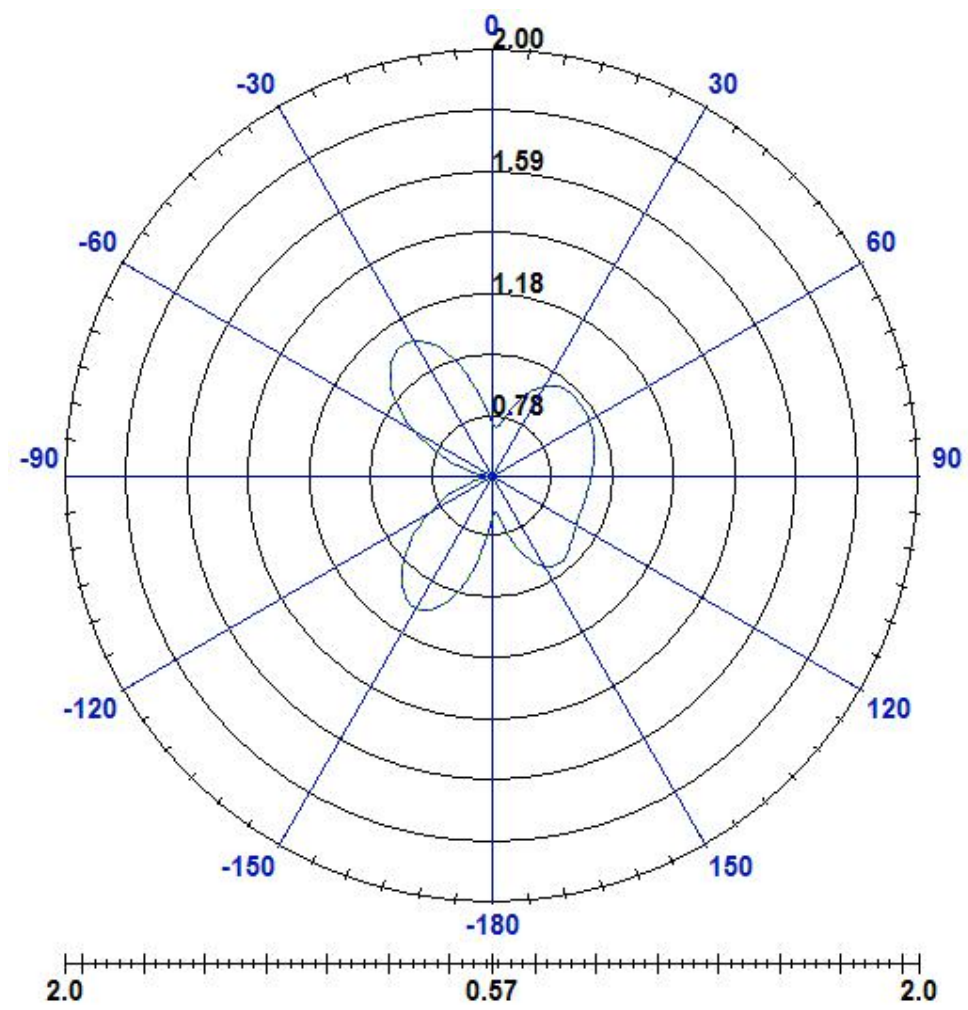
4. Radiation Patterns XY-plane



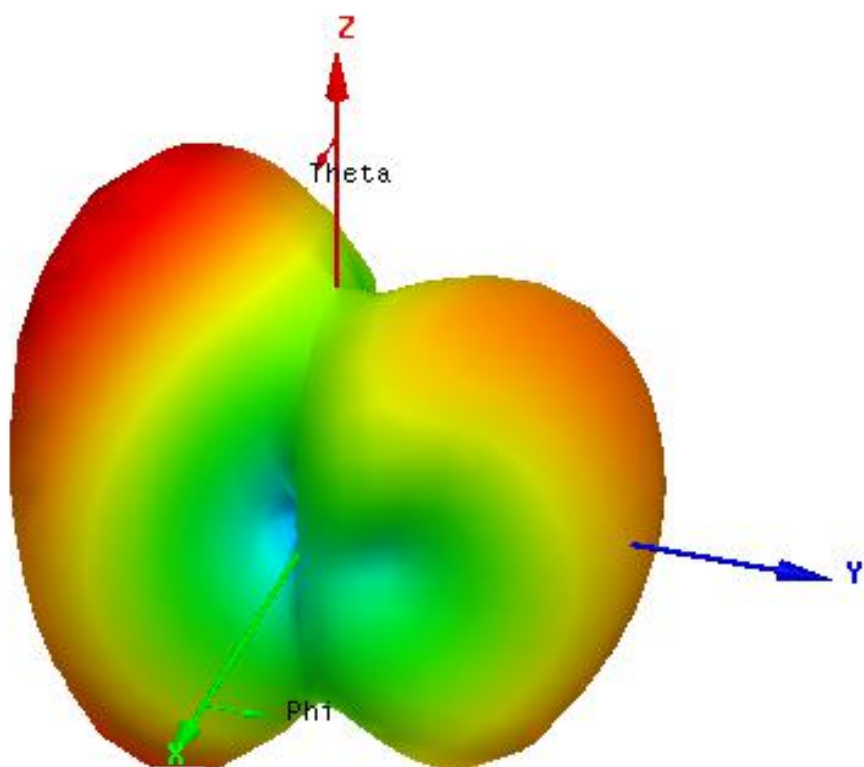
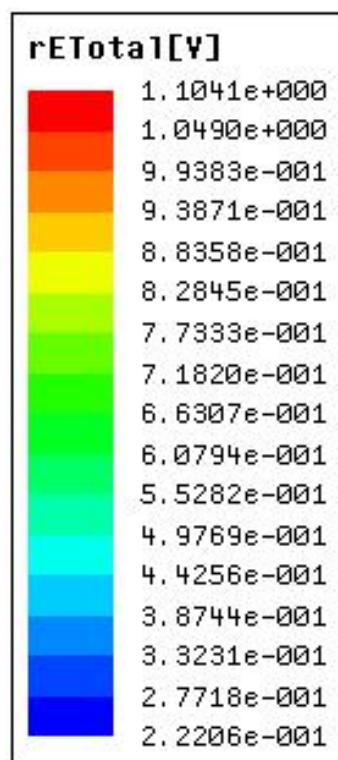
XZ-plane



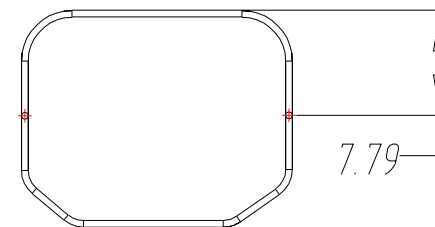
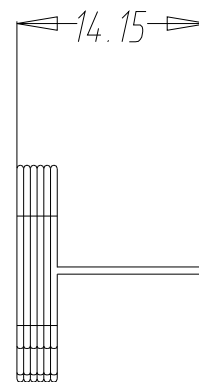
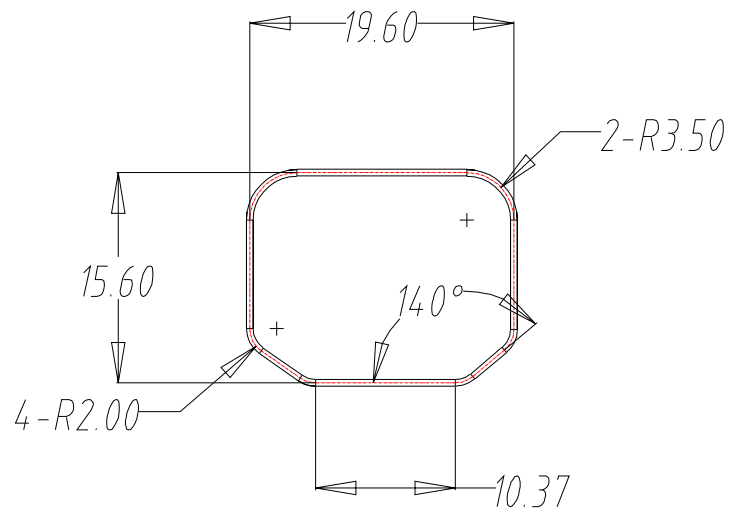
YZ-plane



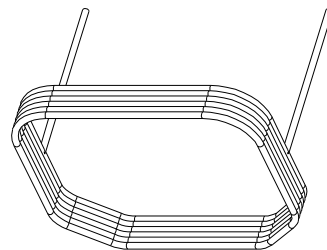
3D Radiation field type



2		1
VER	Item	CONTENT
		ENGINEER/DATE



技术规格:
1. 材质: 直径0.5mm漆包线
2. 圈数: 5圈



We statement that All measurements were performed radiated and therefore additional antenna gain documentation is not required.

Manufacturer Name: Dongguan Xiechuang Technology Co., Ltd Address: Room 608, Building 1, No.4 Jizhi North Road, Humen Town, Dongguan City, Guangdong Province

Operation Frequency:13.56MHz
Modulated Type: 1
Antenna Gain: 0dBi
Antenna Type: Induction coil antenna
Antenna Model: M12-HD