

-天线性能测试规格书-	Doc No.	
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F5 Pro

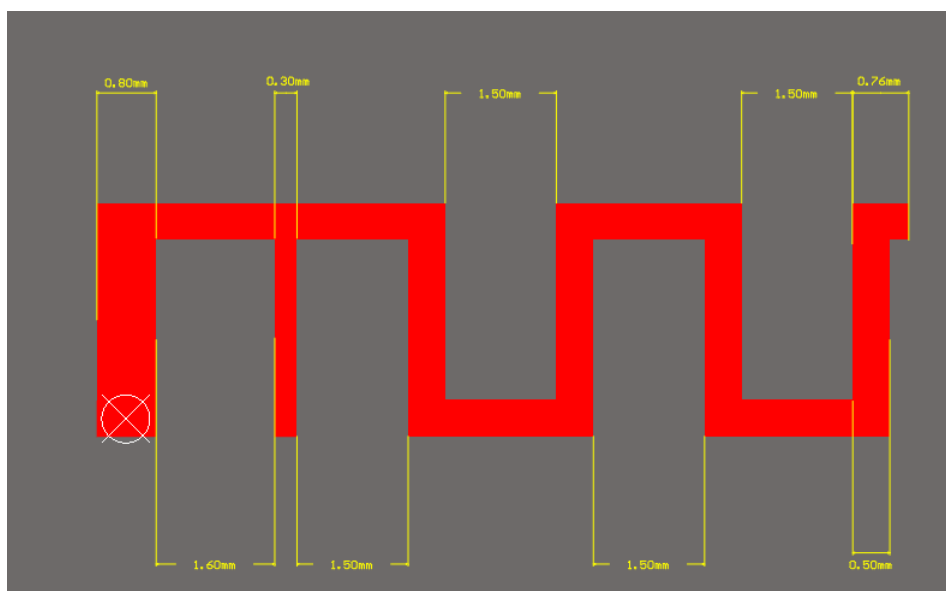
天线性能测试规格书

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	-1.56dBi
4	VSWR	≤2.0
5	Antenna type	PCB antenna

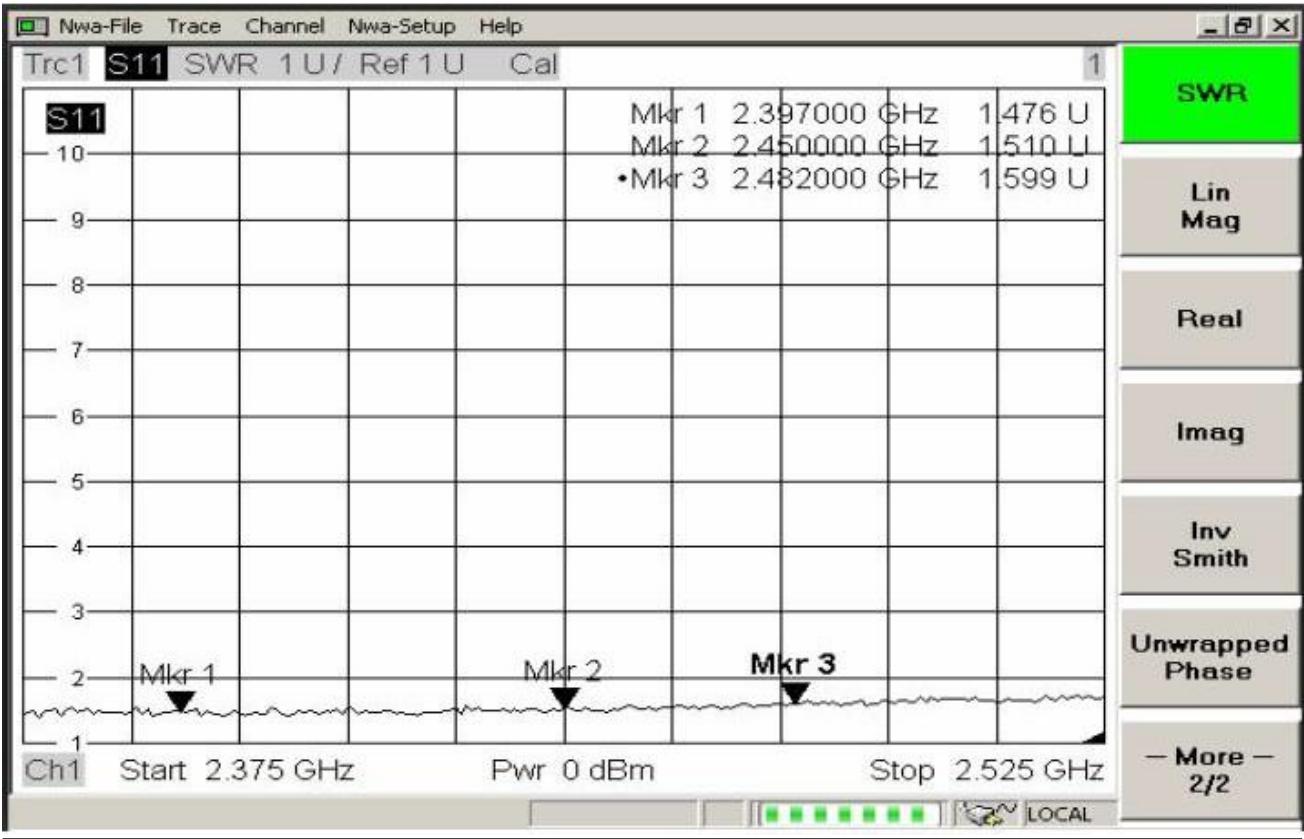
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6	Azimuth Beam width	Omni - directional
7	Impedance	50 欧姆
8	Modulation mode	GFSK

3. 仪器测试、软件仿真参数

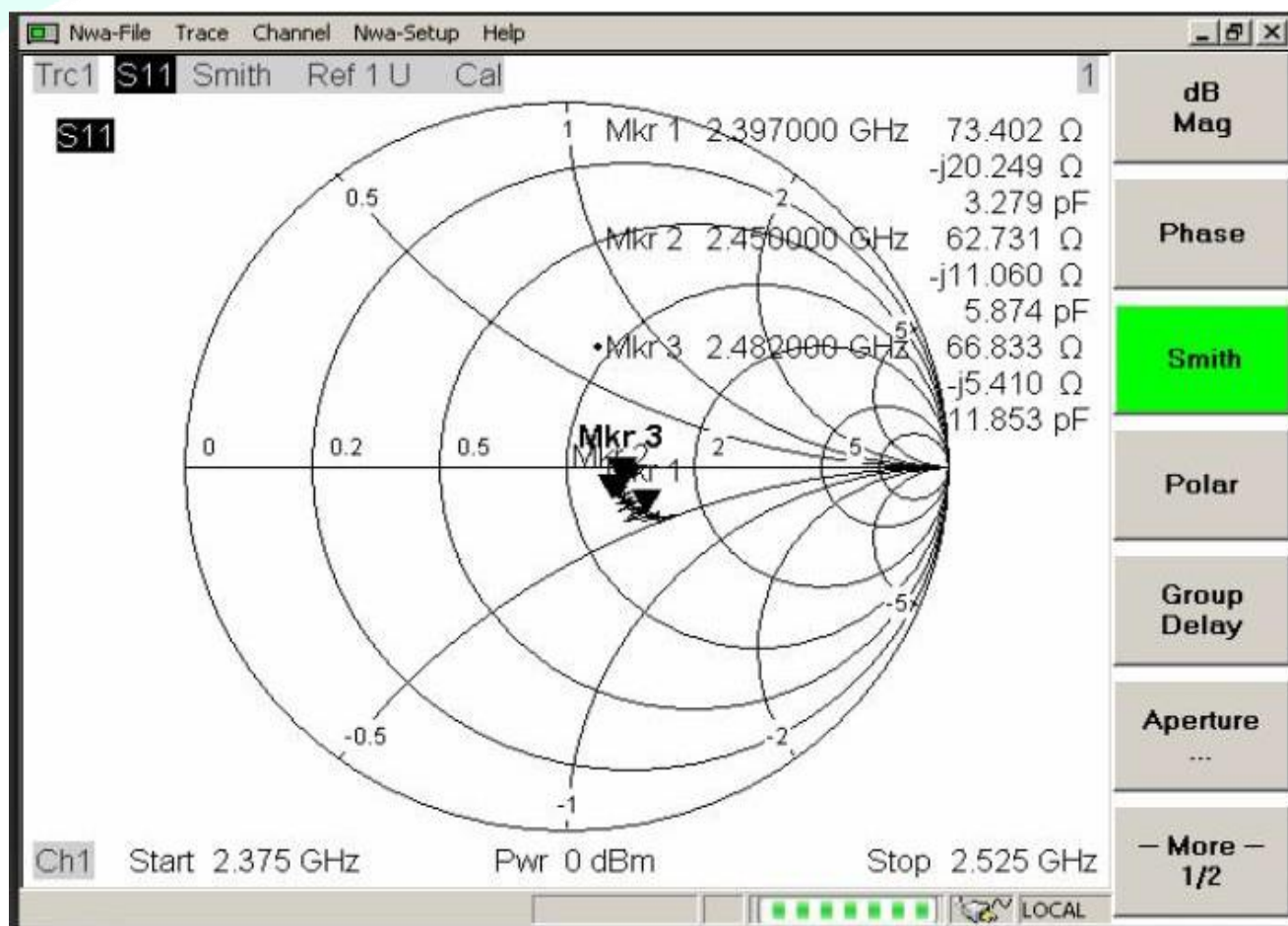
① VSWR

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



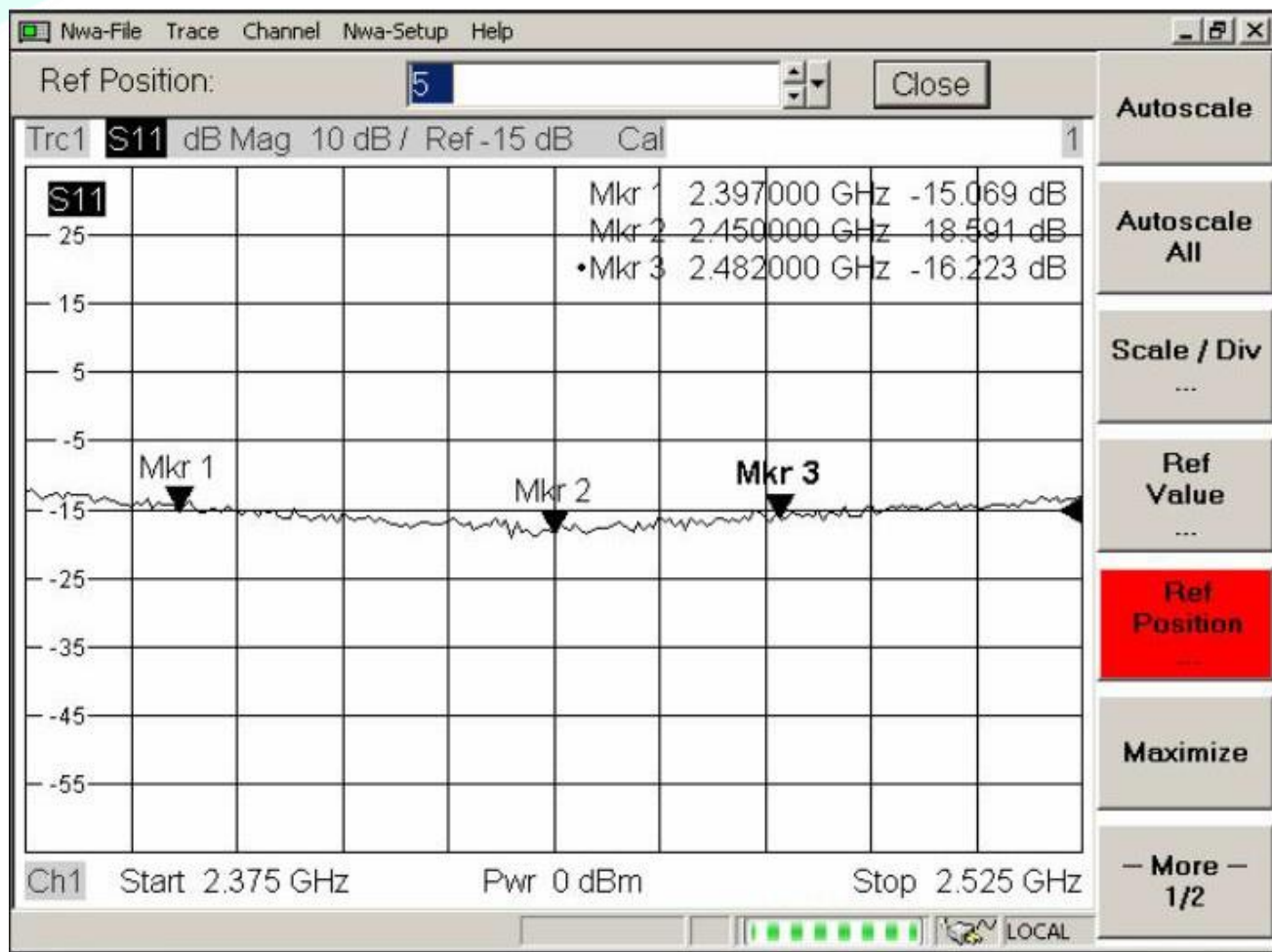
②Smith Char

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



③Return Loss

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

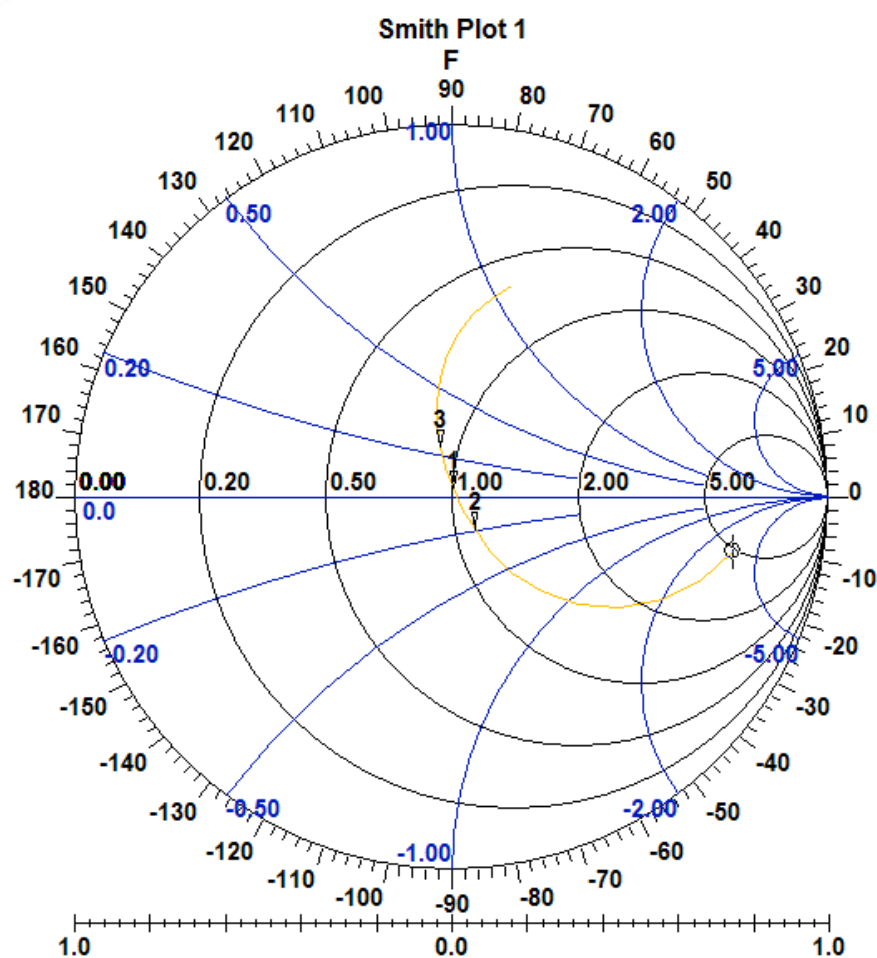


④Smith Char 仿真

Mkr1: 2400MHz 1.234

Mkr2: 2500MHz 1.051

Mkr3: 2600MHz 1.322



VSWR1= 1.051
2.500GHz

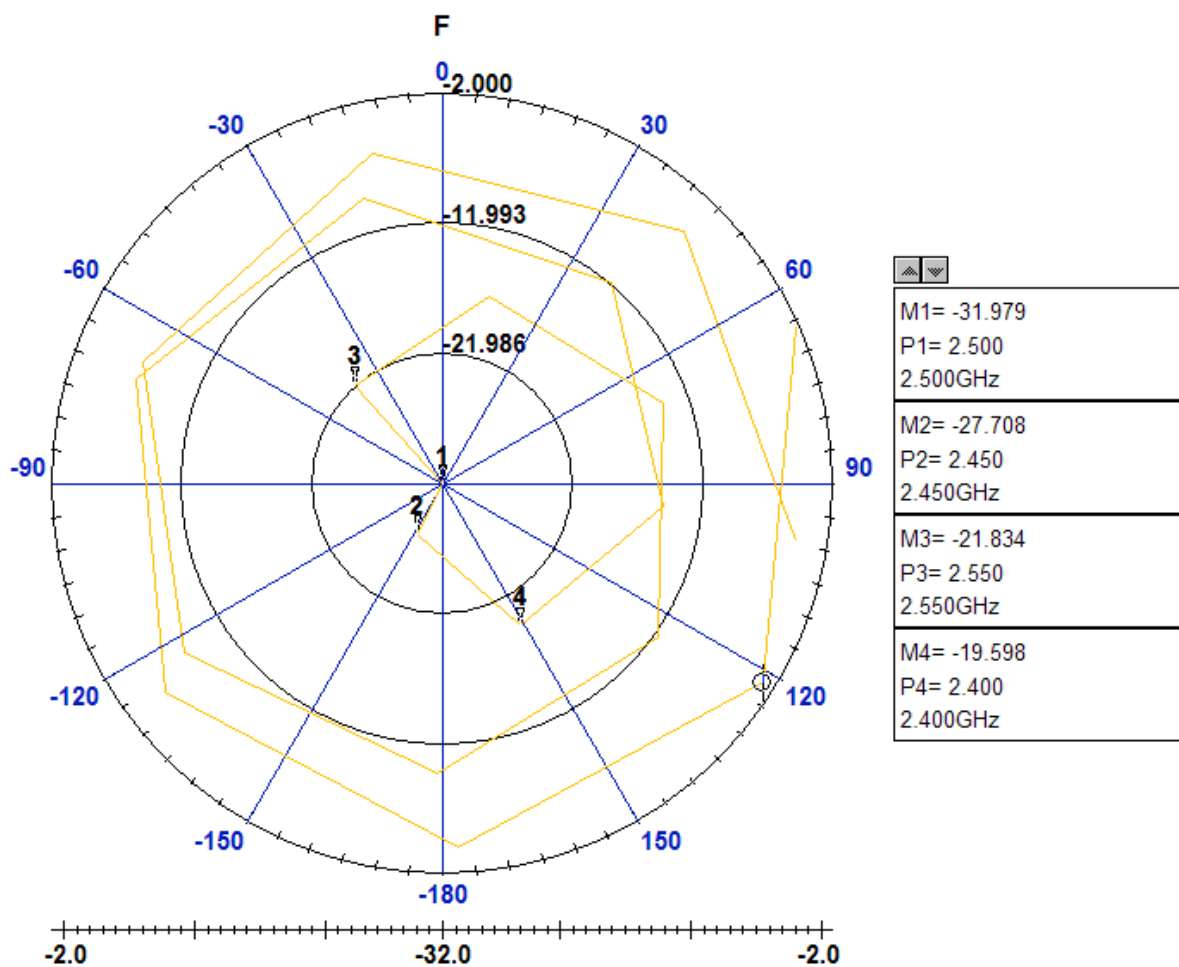
VSWR2= 1.234
2.400GHz

VSWR3= 1.322
2.600GHz

⑤Return Loss 仿真

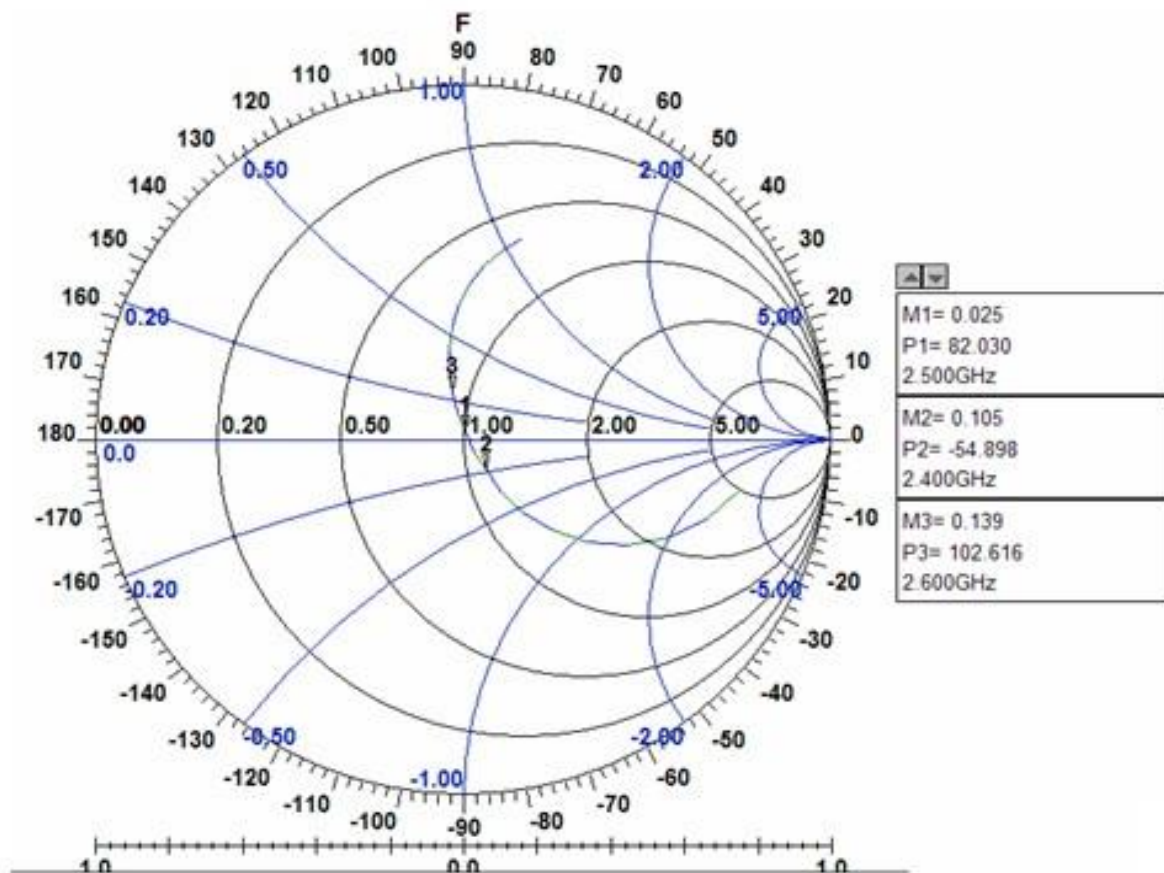
Mkr1: 2400MHz -19.59 Mkr2: 2450MHz -27.70 Mkr3: 2500MHz -31.97

Mkr4: 2550MHz -21.83



⑥Phase 仿真

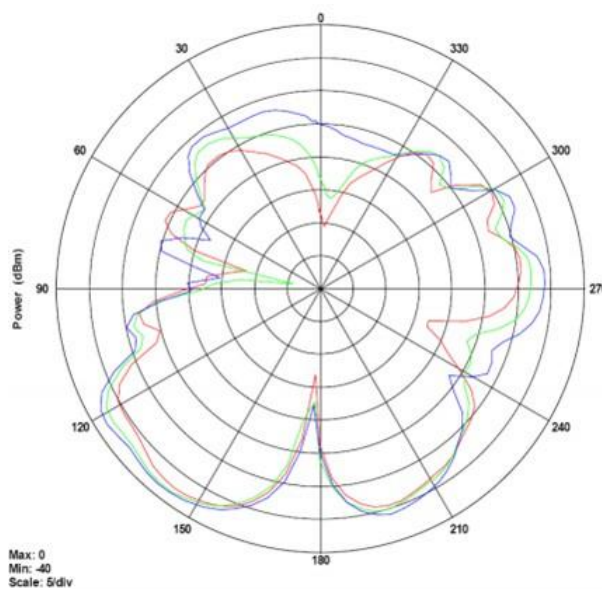
Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.03 Mkr3: 2600MHz -102.6



4. Radiation Patterns

Horizontal

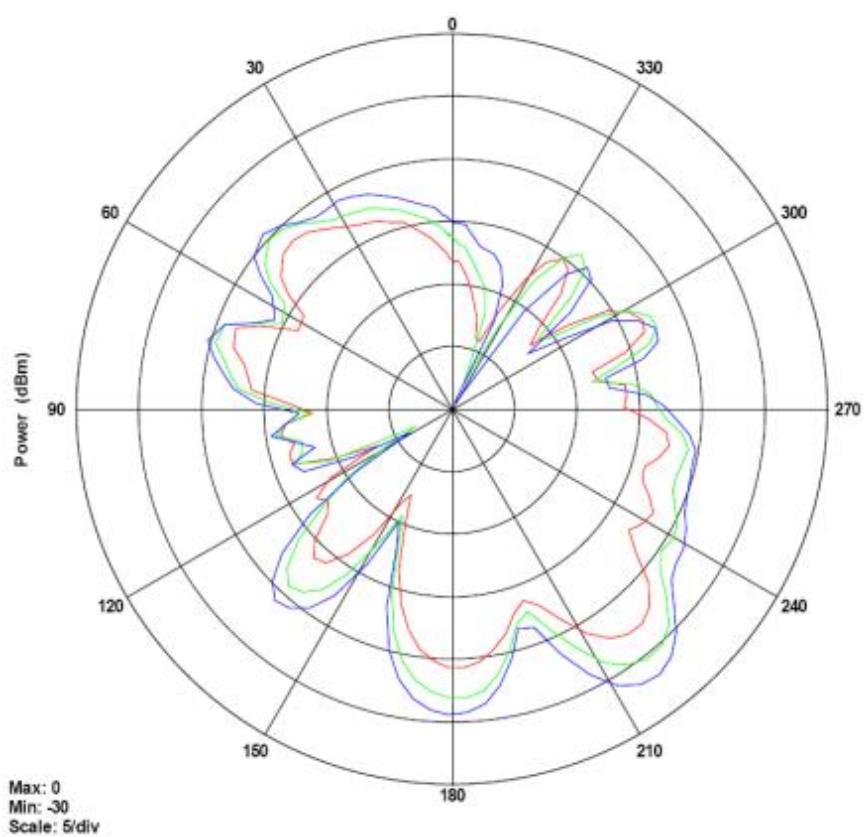
2402MHz 2441MHz 2480MHz



Frequency (MHz)	Gain(dBi)		
	Max.	Min.	Avg.
2402	-2.64776	-30.6718	-9.77028
2441	-1.89964	-35.918	-8.87095
2480	-1.56516	-24.6457	-7.89065

Vertical

2402MHz 2441MHz 2480MHz



Frequency (MHz)	Gain (dBi)		
	Max.	Min.	Avg.
2402	-7.09317	-24.1891	- 13.5194
2441	-4.7048	-27.8246	- 11.666
2480	-3.1576	-29.4867	- 10.5684

