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# Antenna specification

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Company Name

*Shantou ObowAI Intelligent Electrical appliances Co.,LTD.*

Company address

No.9,Xinjia Dongyuan 2nd Road,Chenghua Street,Chenghai District,Shantou,Guangdong,China

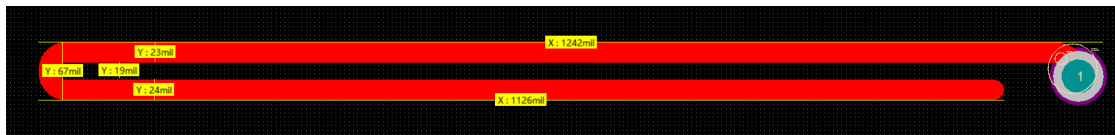
Antenna model: MARB AT V1.0

## Applications

※Bluetooth Home RF

※ISM band 2.4GHz applications

### 1. Dimensions



## 2. Specifications

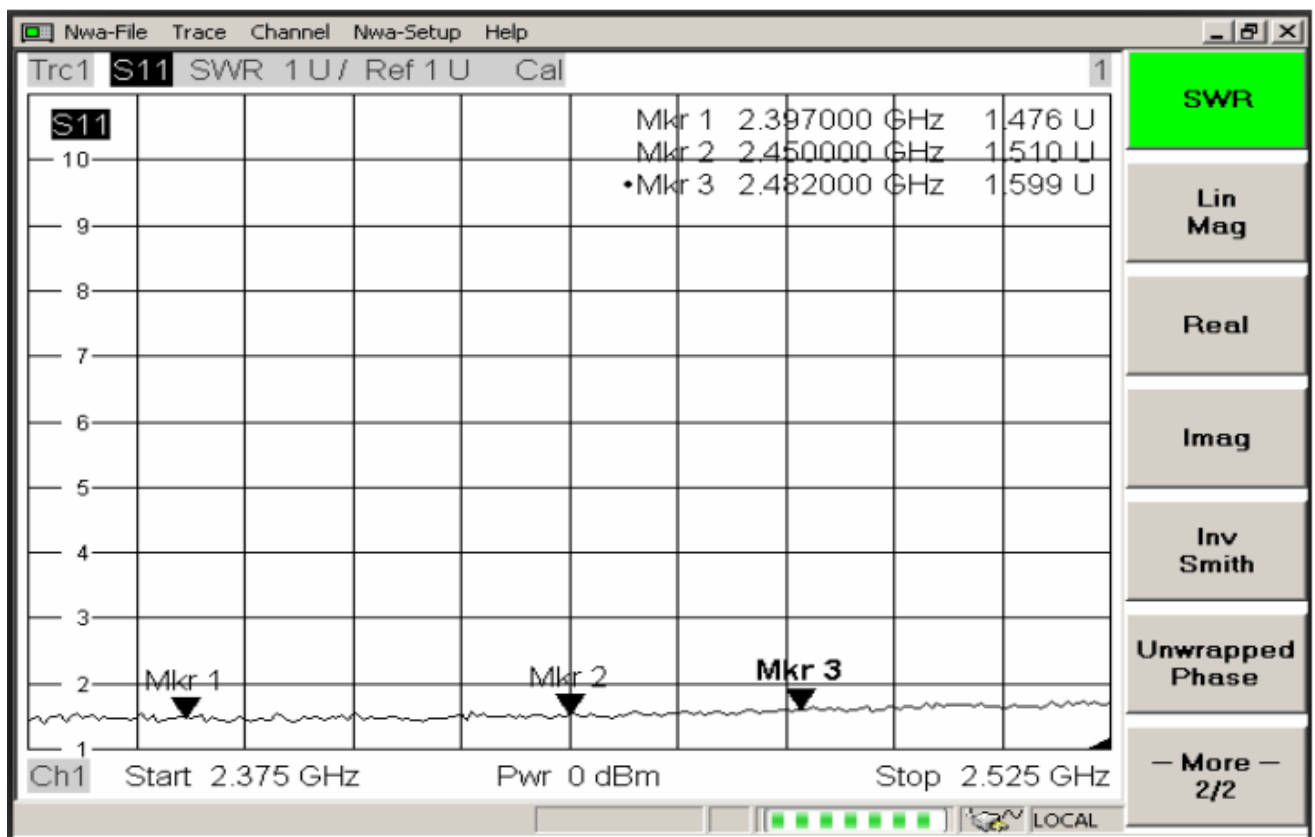
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number	Item	Specifications
1	Working Central Frequency	2441 MHz
2	Band Width	(2402-2480)MHz
3	Gain	0dBi
4	VSWR	≤2.0
5	Antenna type	PCB antenna
6	Azimuth Beam width	Omni - directional
7	Impedance	50ohm
8	Modulation mode	GFSK

### 3. simulation parameter

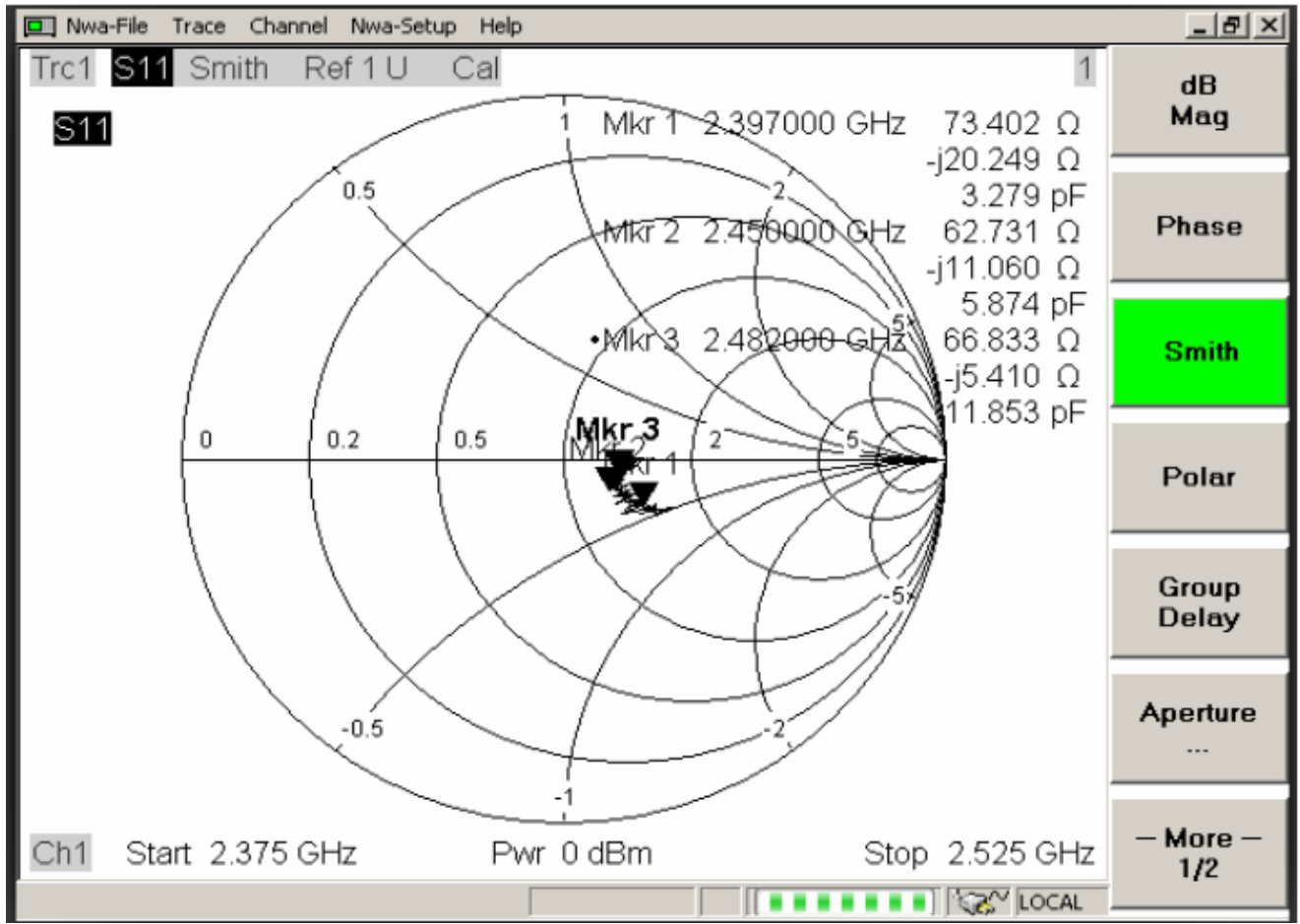
#### ① VSWR

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



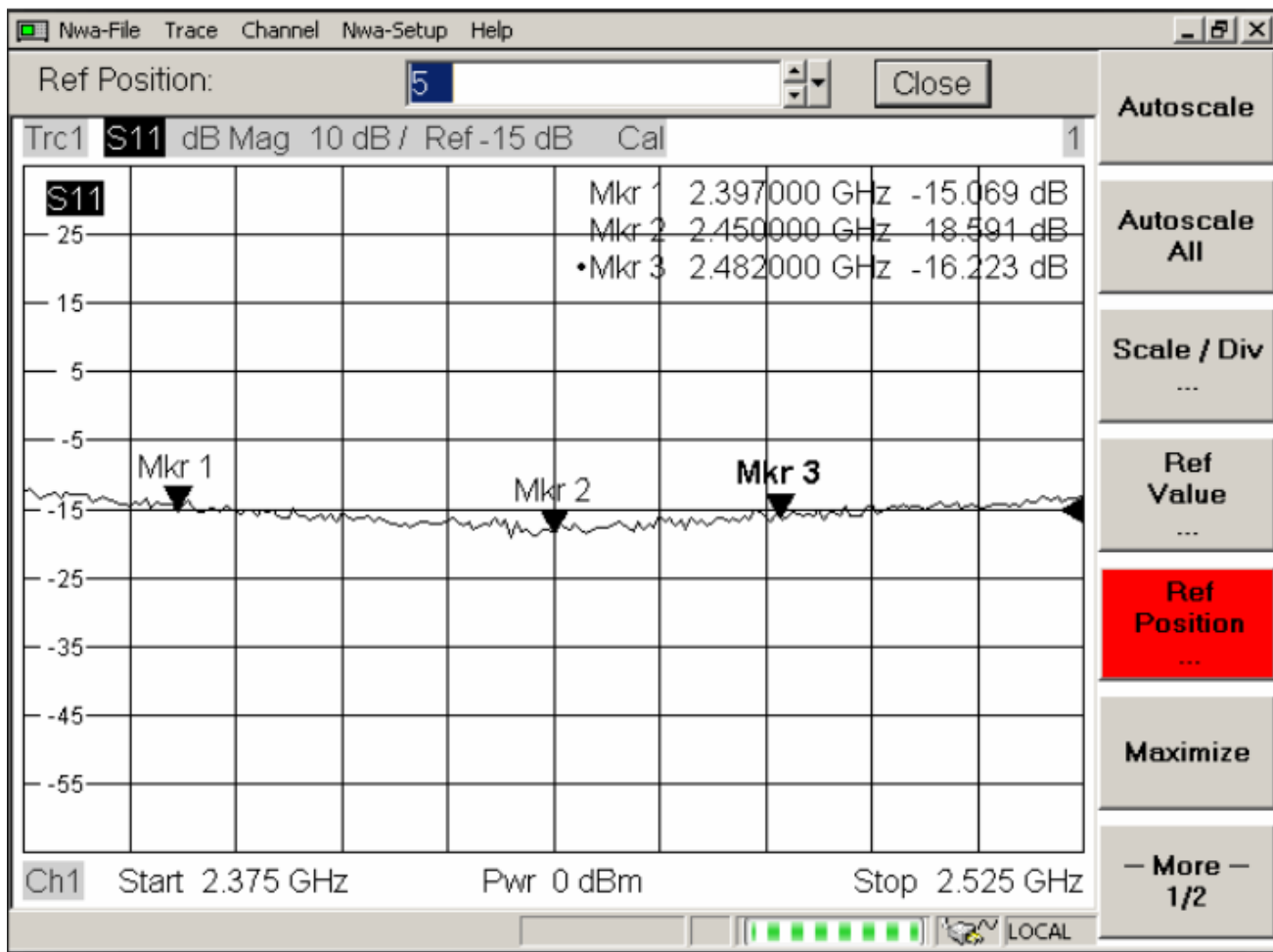
#### ② Smith Char

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



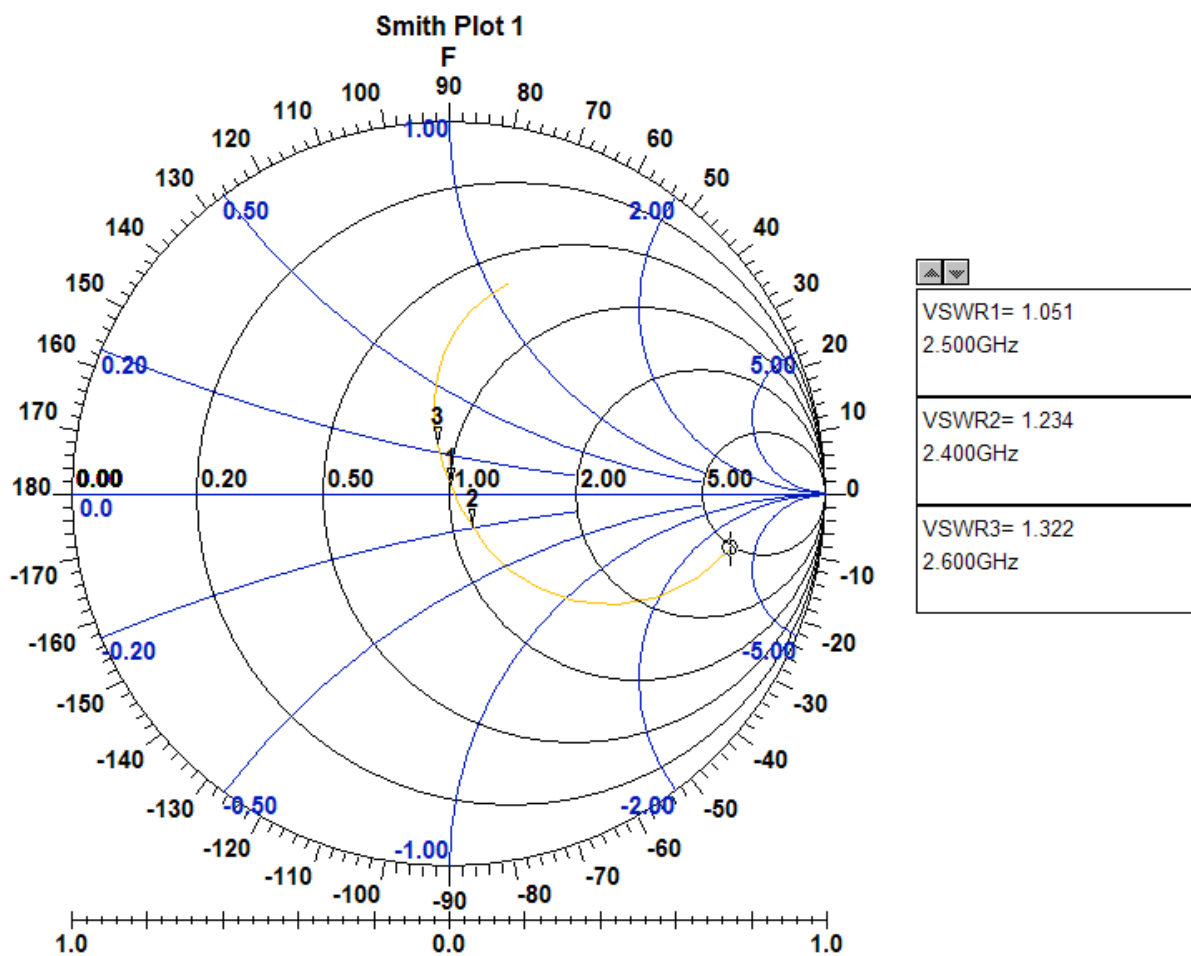
### ③Return Loss

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



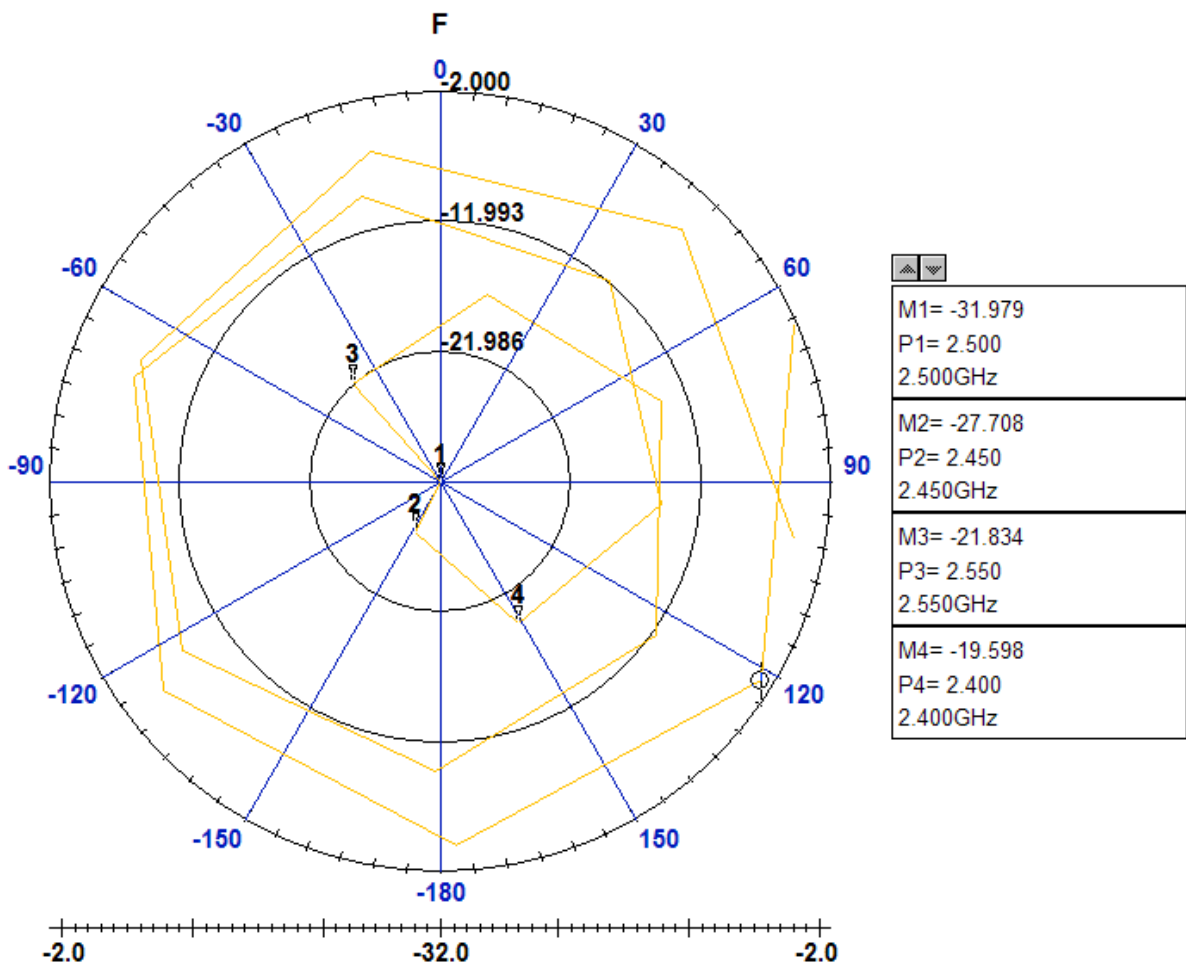
④Smith Char

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



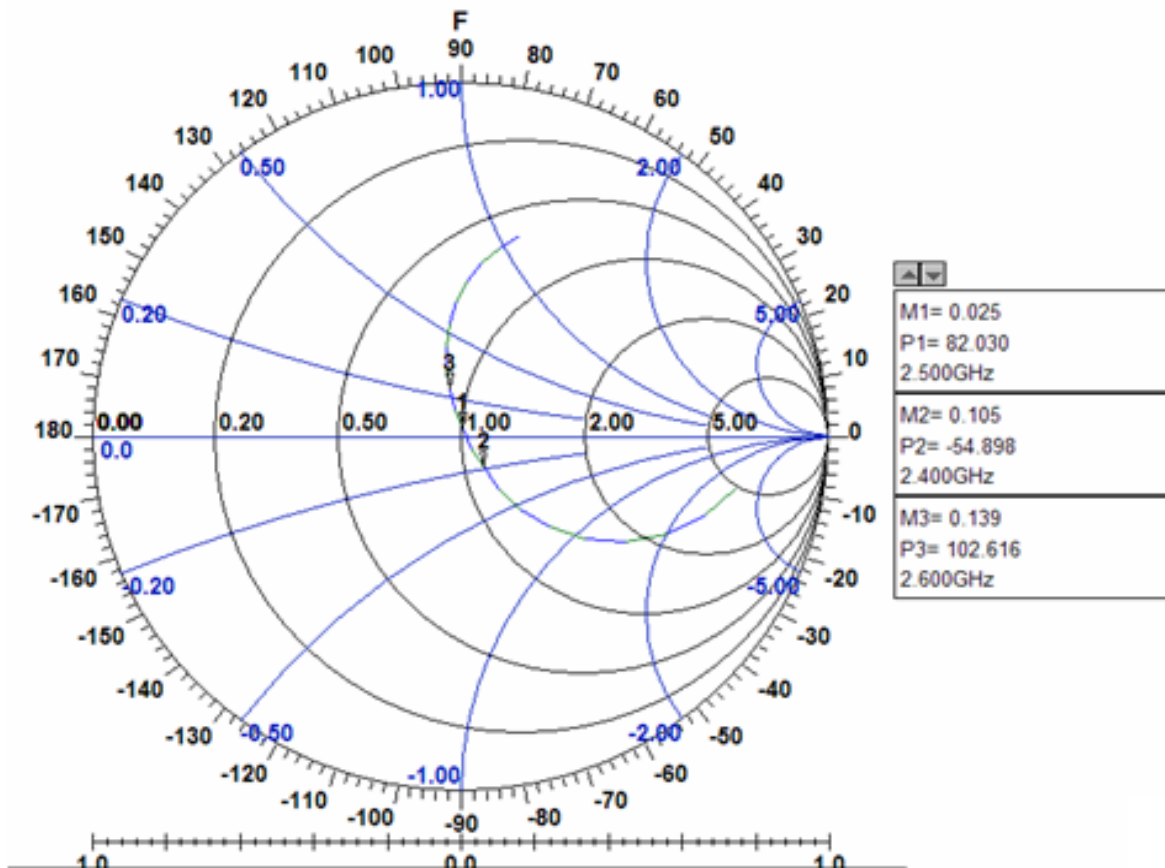
⑤Return Loss

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



⑥Phase

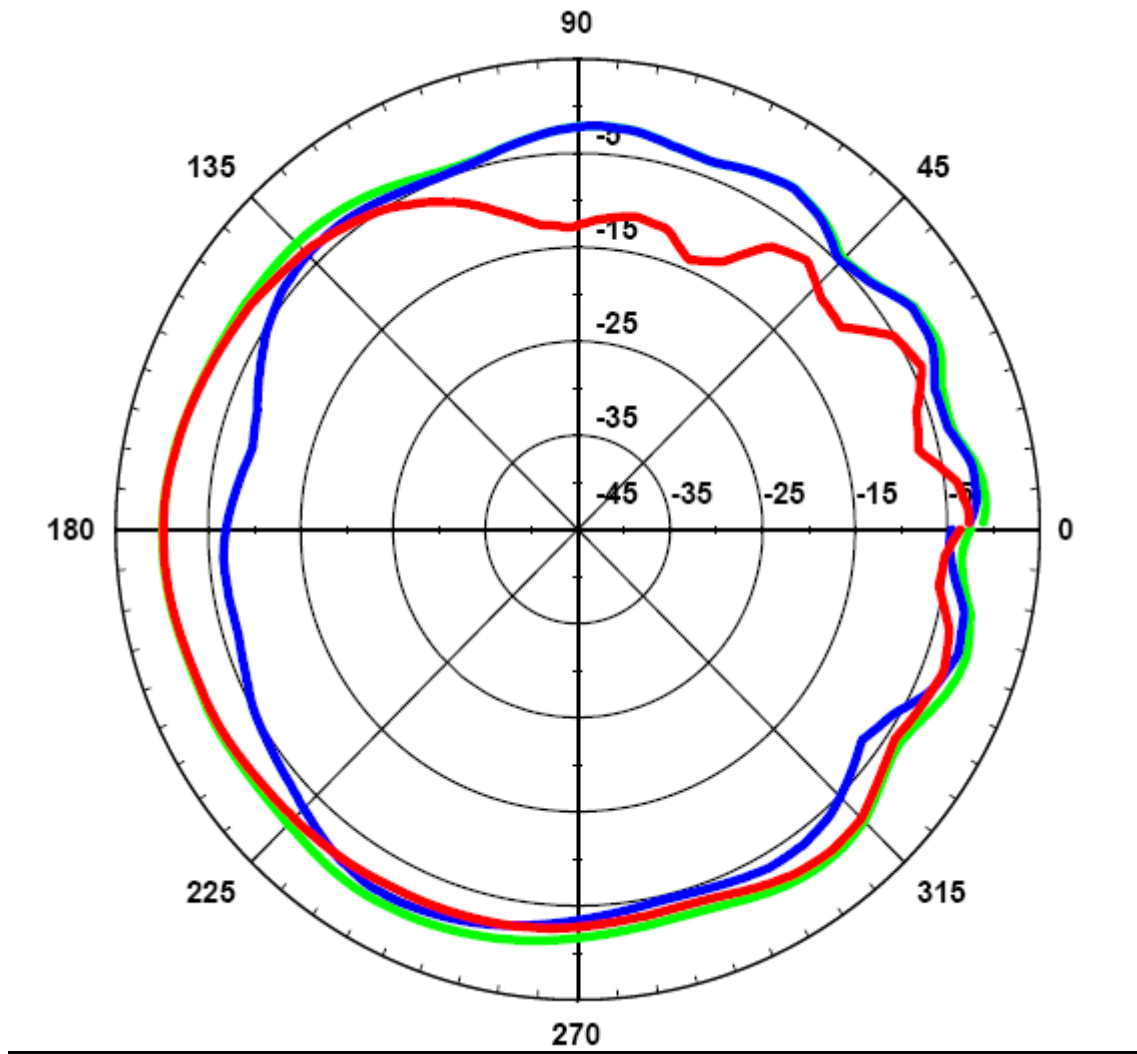
Mkr1: 2400MHz -54.89 Mkr2: 2500MHz -82.03 Mkr3: 2600MHz -102.6



#### 4. Radiation Patterns



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



• 3DRadiation pattern

