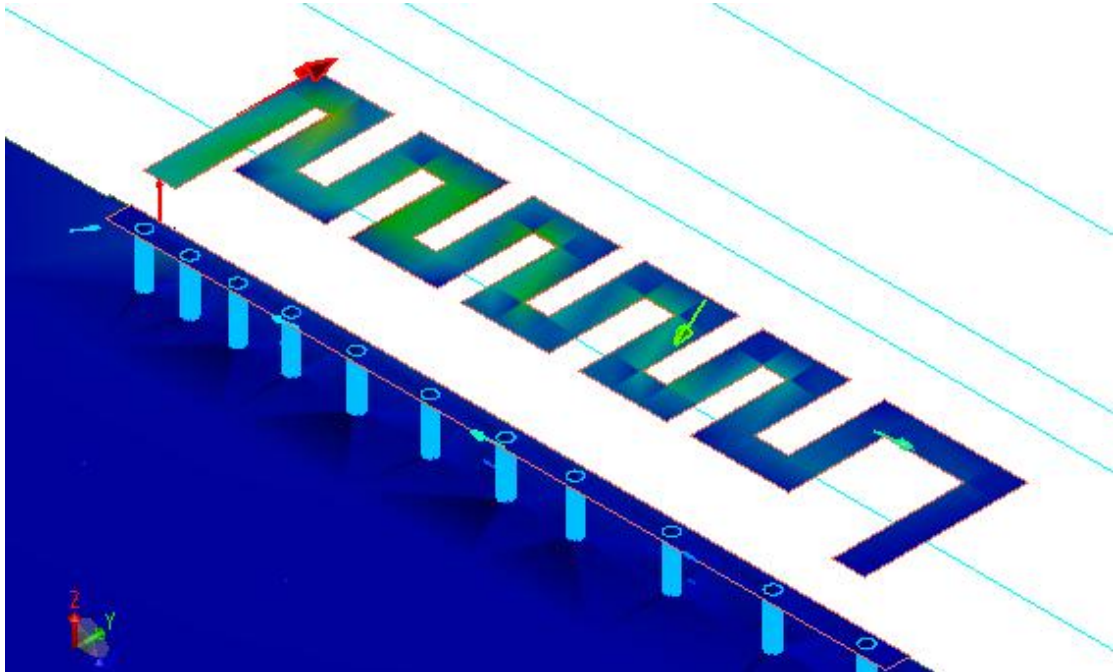


# **Antenna Specifications**

# APPlications

- ※ Bluetooth Home RF
- ※ ISM band 2.4GHz applications

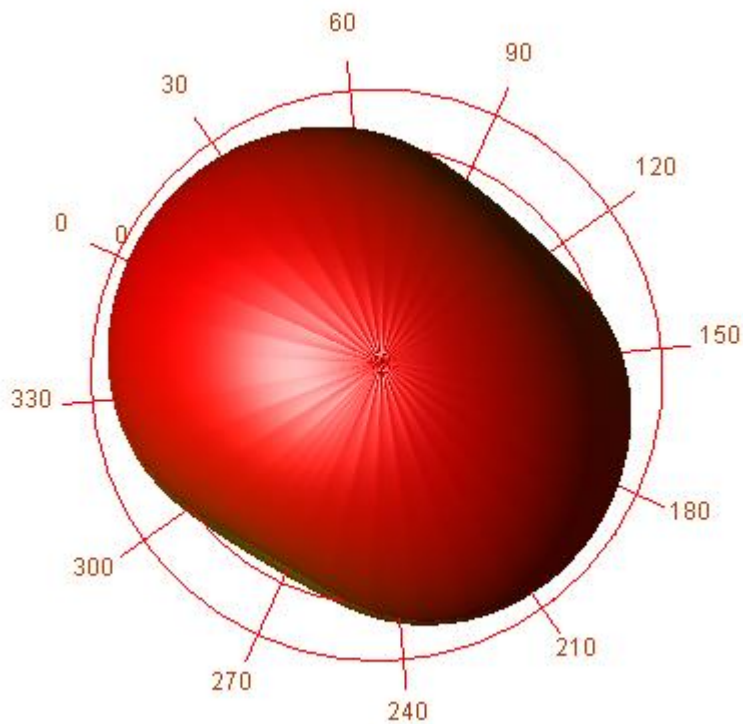
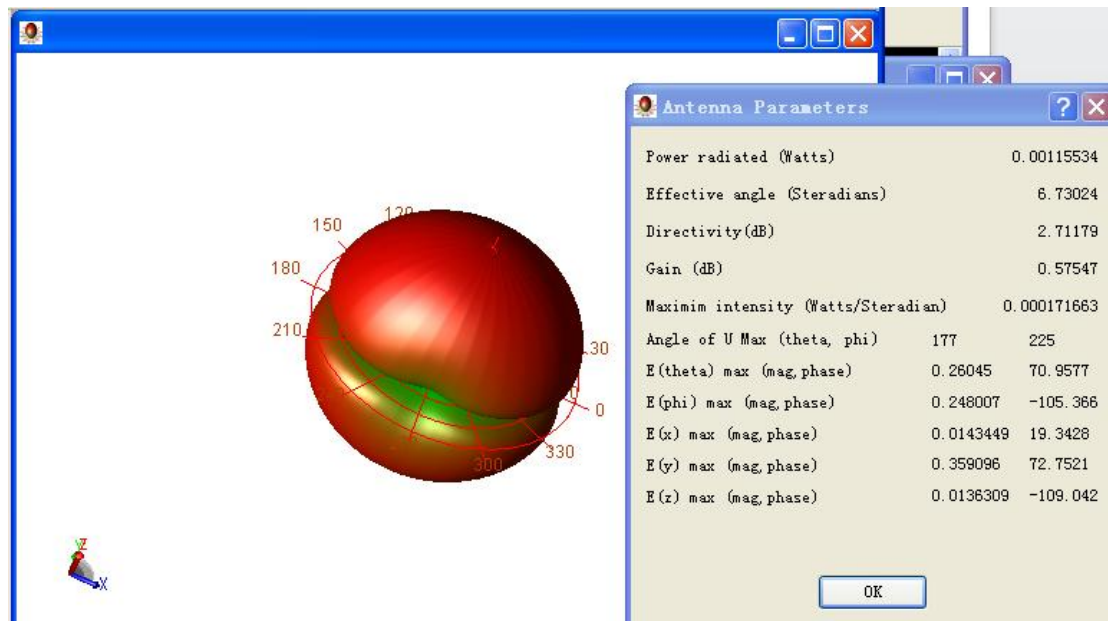
## 1. Dimensions

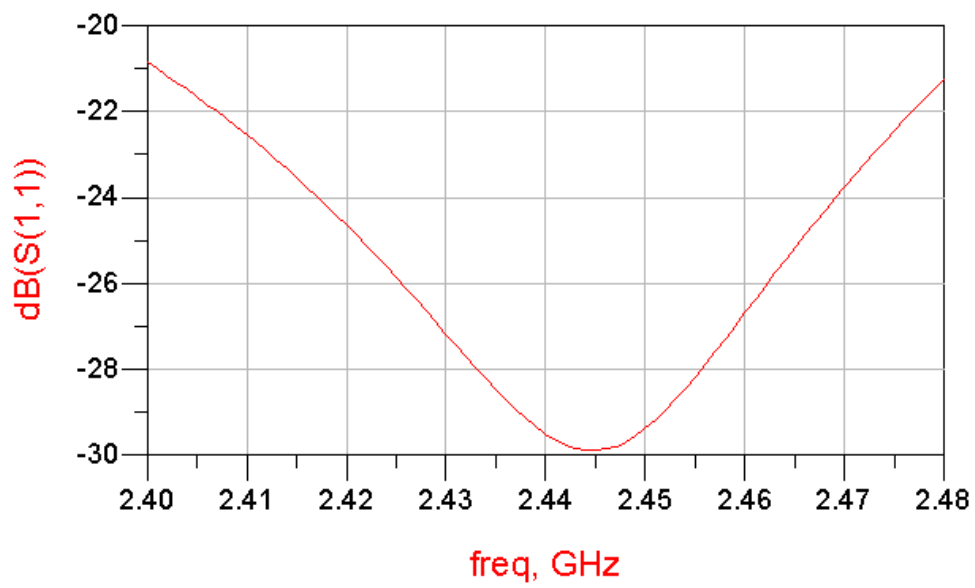


## 2. Specifications

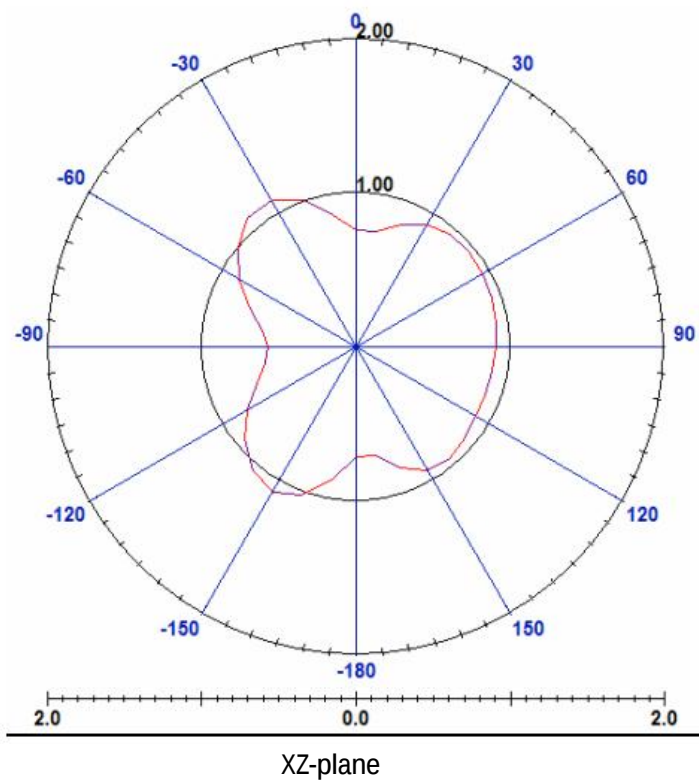
|                    |                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------|
| Item               | Specifications                                                                                                   |
| Model              | RF-BM-S01                                                                                                        |
| Manufacturer       | CME Electronics Technology Co., LTD                                                                              |
| Address            | Suite B, 18 th Floor, Jingwange No. 303, Qinglv Road South,<br>Gongbei, Zhuhai 519020, Guangdong Province, China |
| Frequency Range    | 2402-2480MHz                                                                                                     |
| Gain               | 0dBi                                                                                                             |
| VSWR               | ≤2.0                                                                                                             |
| Antenna type       | PCB antenna                                                                                                      |
| Azimuth Beam-width | Omni-directional                                                                                                 |
| Impedance          | 50 Ω                                                                                                             |

### 3. Software simulation parameters

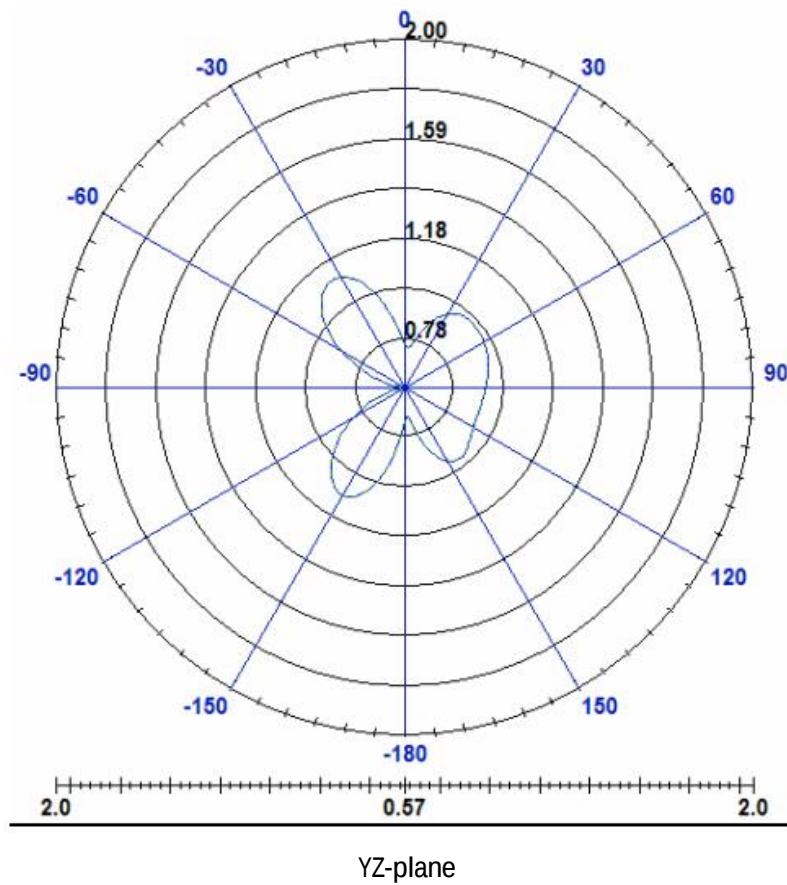




XZ-plane



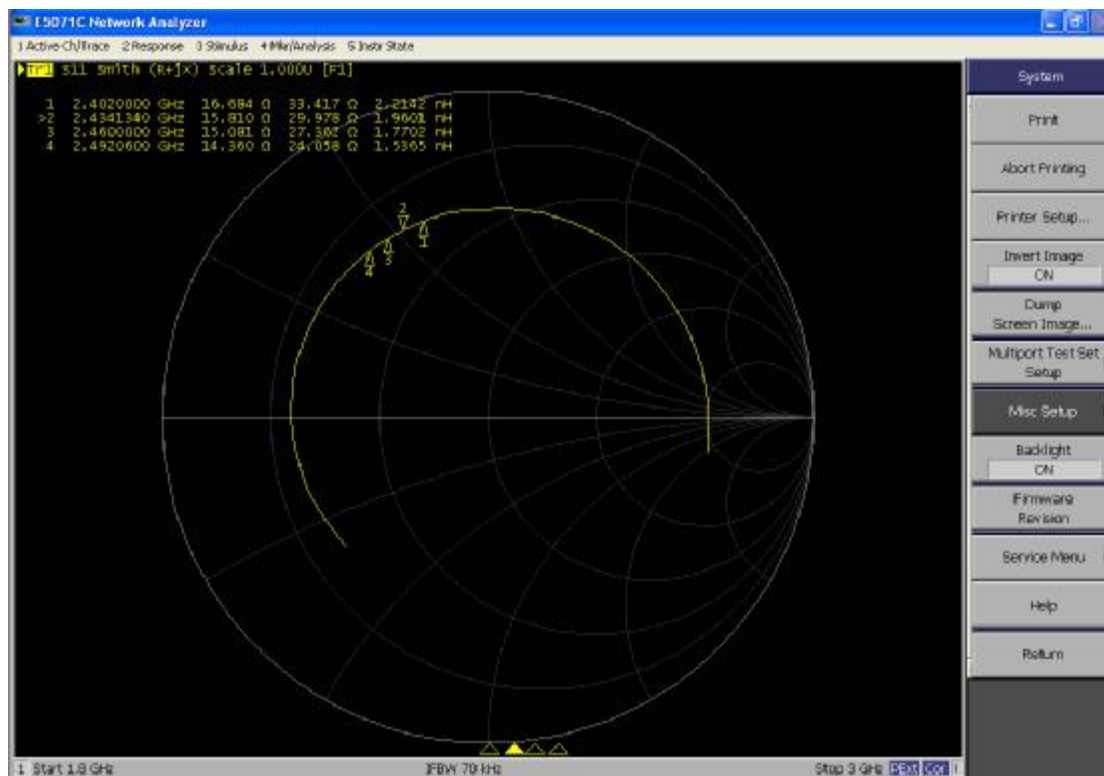
YZ-plane



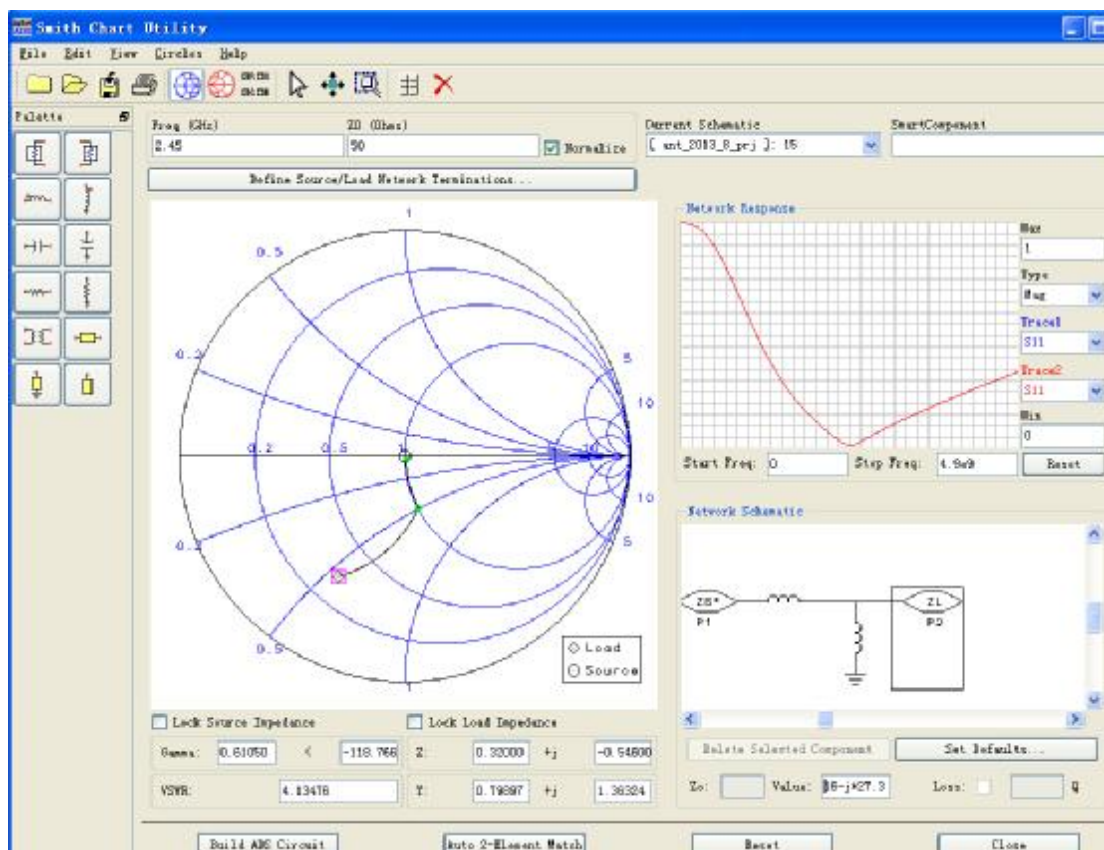
## 4. Instrument measured data

Impedance data before matching

The central impedance is approximately:  $16 + j27.3$



共轭匹配后



Impedance data before matching

1、Return Loss (**Matched impedance**)

Mkr1:2402MHz

Mkr2:2434MHz

Mkr3:2460MHz

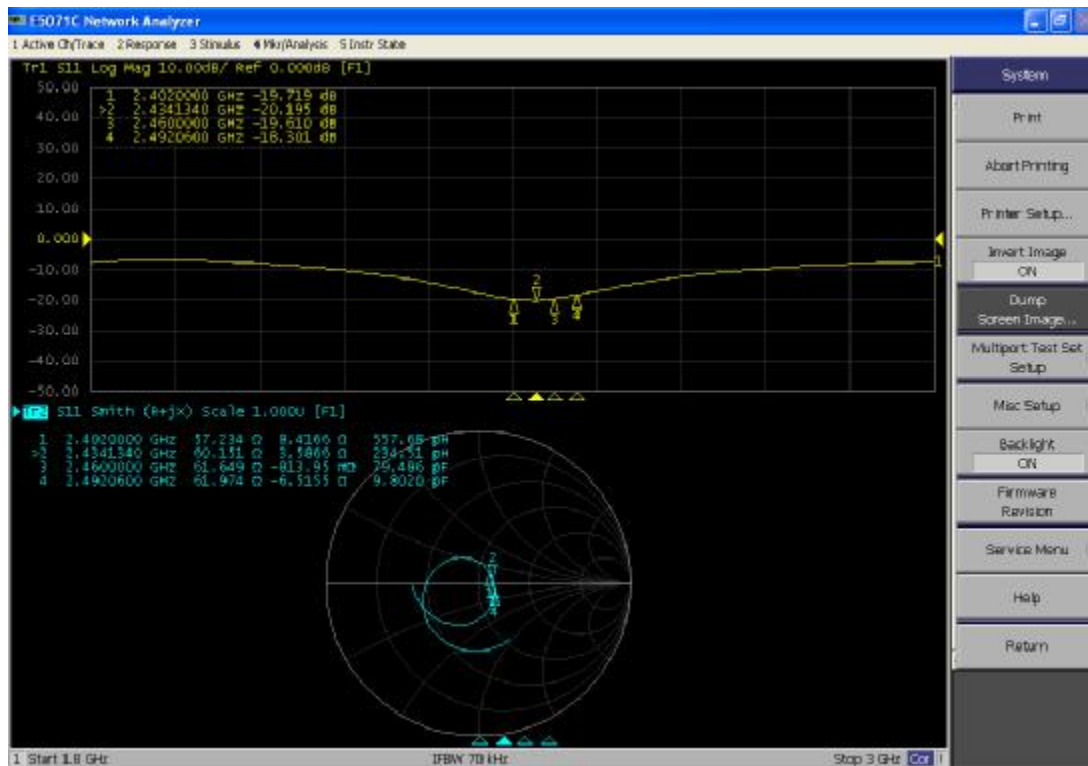
Mkr4:2492MHz

Mkr1:-19.7db

Mkr2:-20.1db

Mkr3:-19.6db

Mkr4:-18.3db



## 2、VSWR

Mkr1:2402MHz

Mkr2:2434MHz

Mkr3:2460MHz

Mkr4:2492MHz

Mkr1:1.22

Mkr2:1.24

Mkr3:1.28

Mkr4:1.33

