

# 规格书

## SPECIFICATION FOR APPROVAL

物料描述

DESCRIBE: ZH-HG90移动

客户料号

Customer NO: 5502.0701.0067

物料编码

PART NO: LXC-ZN-HG90-02

型号规格

Antenna type: 2.4G/5G外置天线(2.4G 1.37深灰 L=260mm/5G 1.37白L=220mm)

日期

DATE: 2024.05.23

供应商

PROVIDER: 深圳市连兴创电子科技有限公司

| 客户承认  | 确认 | 器件/结构 | 品质 | 采购 | 性能 | 核准 |
|-------|----|-------|----|----|----|----|
|       |    |       |    |    |    |    |
| 供应商承认 | 确认 | 确认    | 校对 | 审核 | 批准 |    |
|       |    |       |    |    |    |    |

# 版本信息变更记录

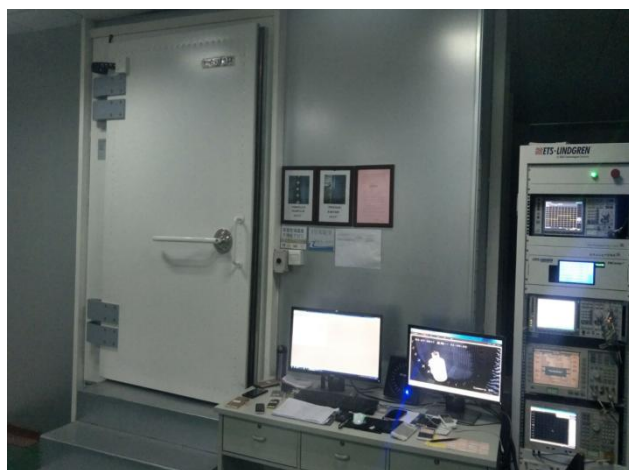
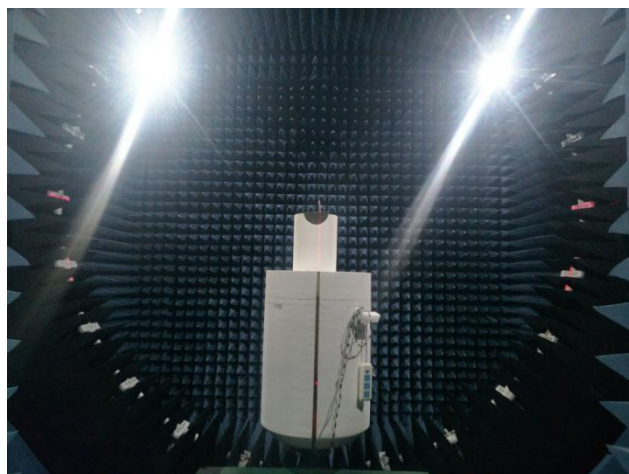
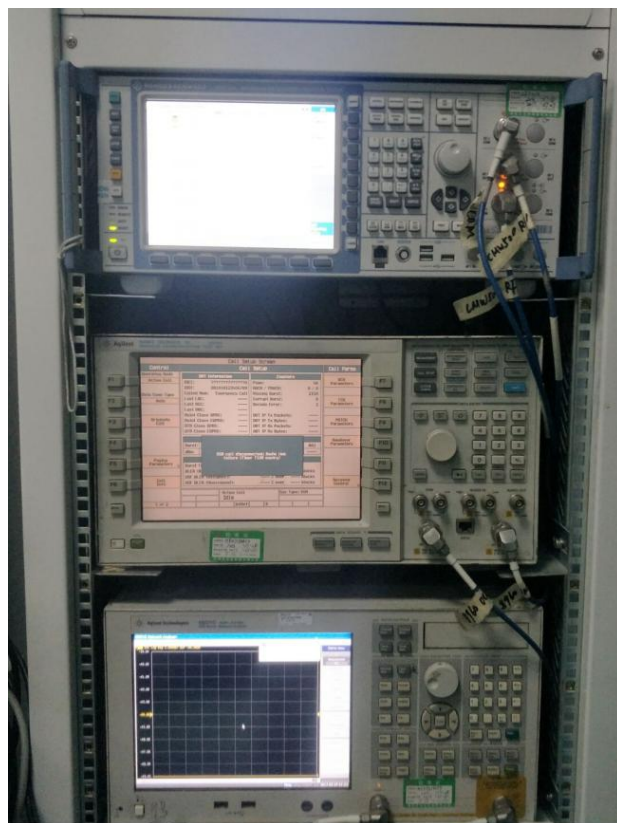
版本变更记录

| 变更日期 | 变更内容 | 版本 | 变更人 | 批准人 |
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## 版本信息变更记录

| 序号 | 内容        | 页码 |
|----|-----------|----|
| -  | 承认书封面     |    |
| -  | 版本变更记录    |    |
| 1  | 承认书项目表    |    |
| 2  | 试验设备和条件   |    |
| 3  | 样机结构说明件   |    |
| 4  | 天线成品图     |    |
| 5  | S11       |    |
| 6  | 增益/效率/3D图 |    |
|    |           |    |
|    |           |    |

# 测试设备



## The basic parameters

### A. Electrical Characteristics

|                     |                                     |
|---------------------|-------------------------------------|
| <b>Frequency</b>    | 2400 MHz ~2500MHz/5150 MHz ~5850MHz |
| <b>VSWR</b>         | $\leq 2$                            |
| <b>Efficiency</b>   | >70%                                |
| <b>Impedance</b>    | 50 Ohm                              |
| <b>Polarization</b> | Linear                              |
| <b>Gain</b>         | 5dBi $\pm 1$                        |

### B. Material & Mechanical Characteristics

#### Material of Radiator

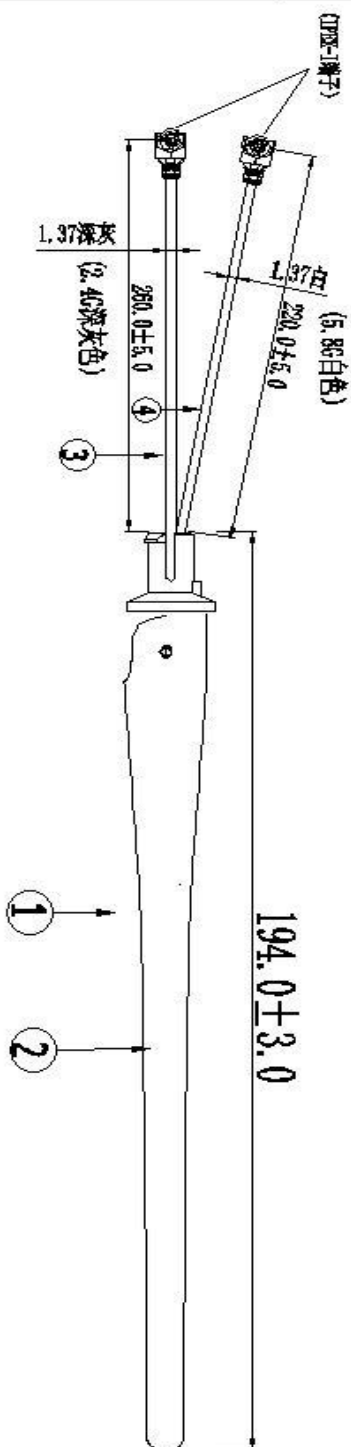
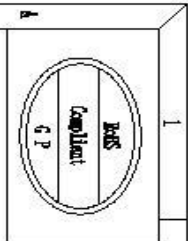
|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| <b>Cable Type</b>     | 2.4G $\Phi 1.37$ mm Gray<br>5G $\Phi 1.37$ mm Black |
| <b>Connector Type</b> | 2.4G 一代IPEX 5G 一代IPEX                               |
| <b>Dimension</b>      |                                                     |

### C. Environmental

|                              |                   |
|------------------------------|-------------------|
| <b>Operation Temperature</b> | - 20 °C ~ + 60 °C |
| <b>Storage Temperature</b>   | - 40 °C ~ + 80 °C |

# 天线2D图档

由 Autodesk 教育版产品制作



1. 频段: (2.4-2.5-5.15-5.8MHz)

备注:

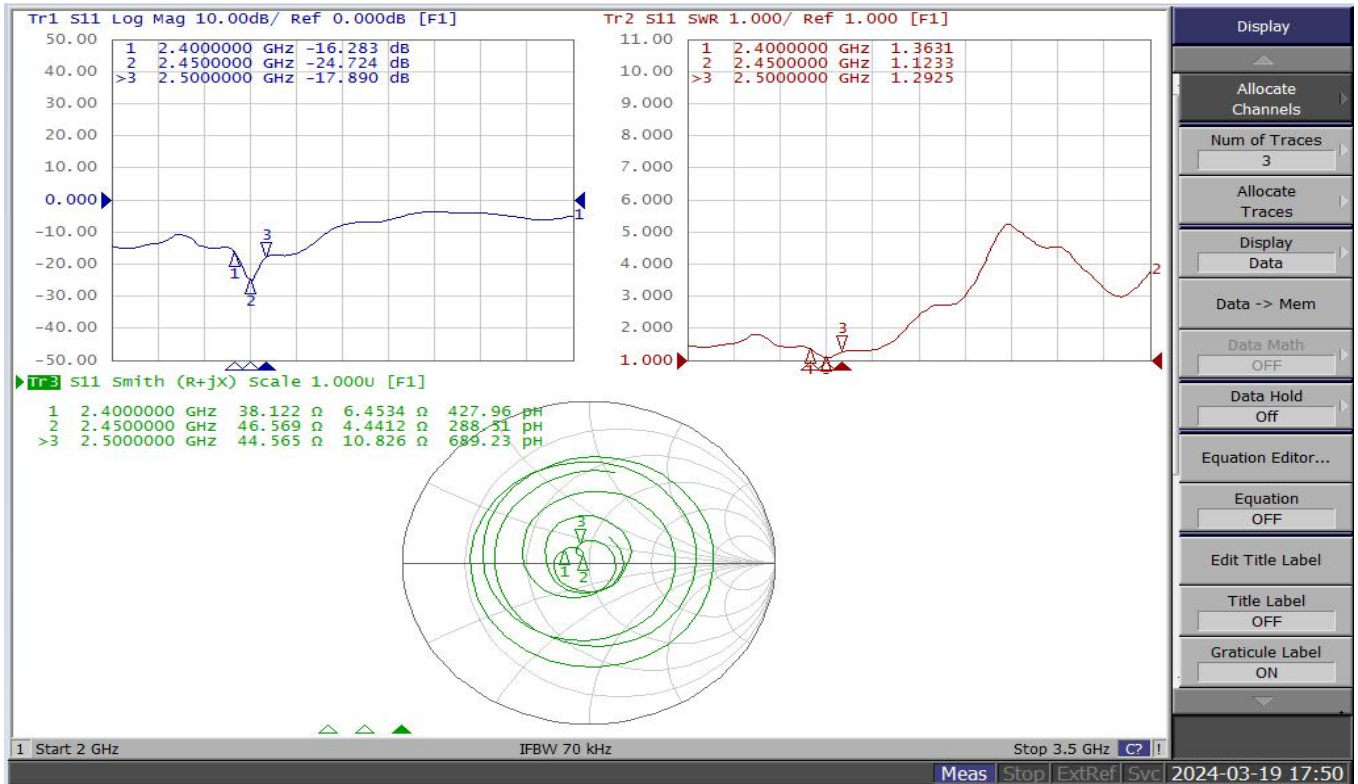
1. 标注\*为重点尺寸, 未标公差尺寸按照 $\pm 0.15$ 检测
2. 未标注尺寸请依图纸。
3. 符合ROHS 2.0无卤

| 深圳市建兴创电子科技有限公司 |                |             |            |
|----------------|----------------|-------------|------------|
| Project        | 2014-01-20     | Date        | 2014-01-20 |
| Part No.       | 5502.0701.0007 | Designed by | 10 唐红文     |
| Part No.       |                | Checked by  | 10 唐红文     |
| Material       |                | Approved by |            |
| Unit           | mm             | Scale       | 1:0.5      |
| Unit           | mm             | Scale       | 1:0.5      |

| NO | DESCRIPTION | QTY |
|----|-------------|-----|
| 4  | 1.37白色线取器线  | 1   |
| 3  | 1.37深灰色线取器线 | 1   |
| 2  | 1.37深灰色线取器线 | 1   |
| 1  | 白色外置天线      | 1   |

# 天线2.4无源测试数据

## 2.4G(S11/SWR/Smith)



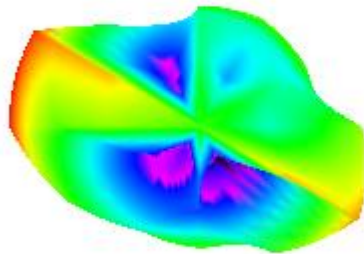
## Antenna \*Efficiency

### 2.4G

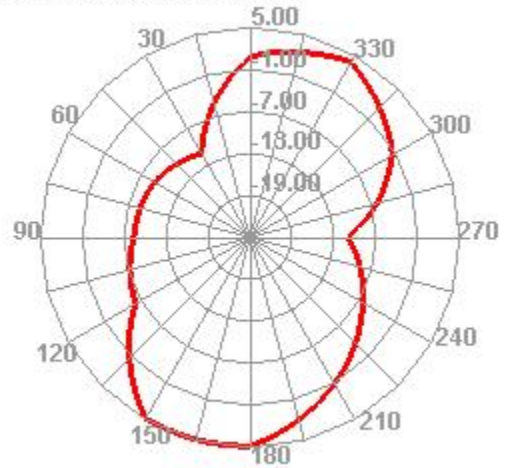
| Freq  | Effi  | Gain  |
|-------|-------|-------|
| (MHz) | (%)   | (dBi) |
| 2400  | 78.55 | 5.41  |
| 2410  | 71.23 | 5.37  |
| 2420  | 73.28 | 5.06  |
| 2430  | 74.88 | 5.14  |
| 2440  | 72.13 | 5.47  |
| 2450  | 75.11 | 5.5   |
| 2460  | 79.03 | 5.62  |
| 2470  | 76.07 | 5.36  |
| 2480  | 77.52 | 5.26  |
| 2490  | 72.18 | 5.29  |
| 2500  | 77.52 | 5.1   |

## 2D&3D方向图

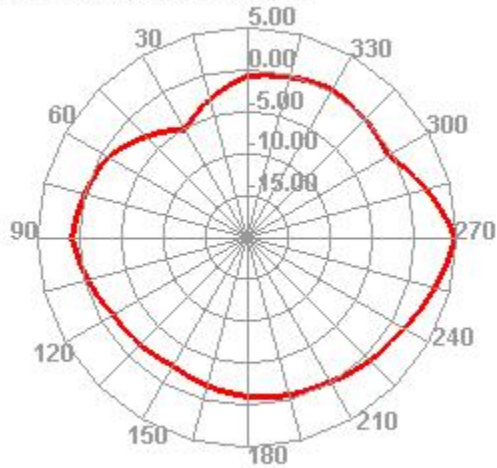
2400.000MHz



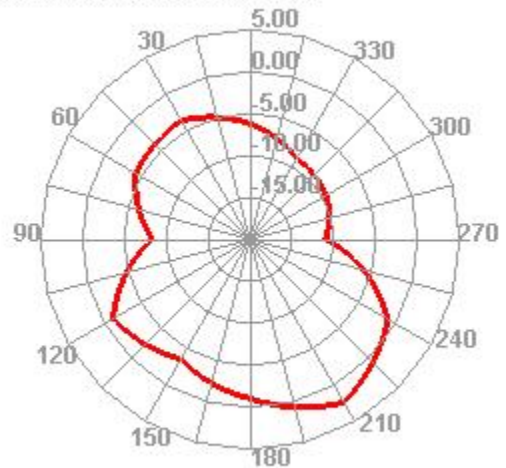
2400.000MHz H



2400.000MHz E1

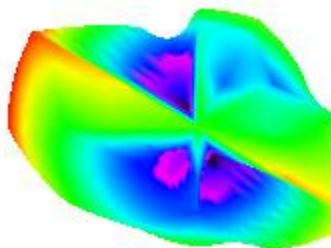


2400.000MHz E2

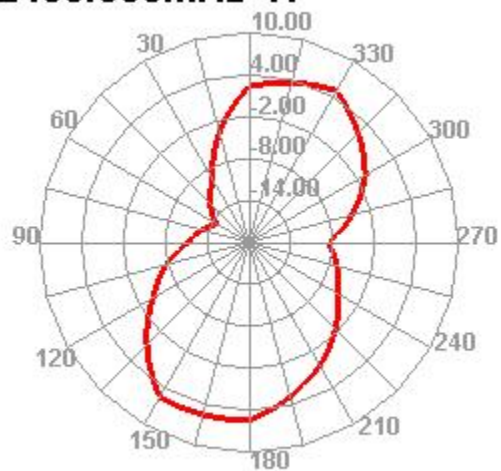


# Antenna \*Efficiency

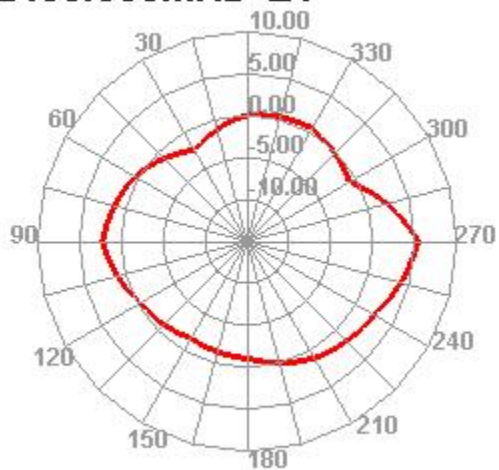
2450.000MHz



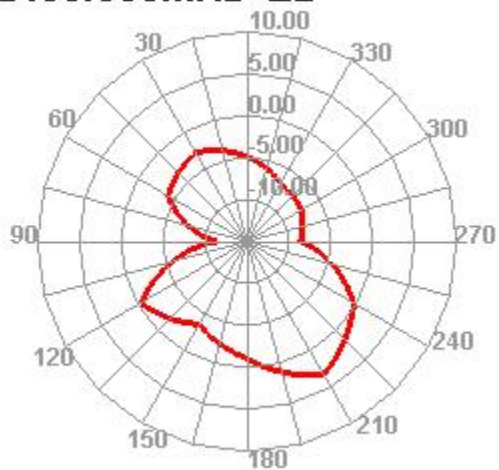
2450.000MHz H



2450.000MHz E1

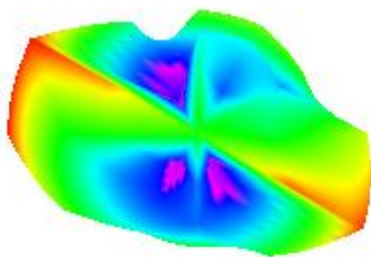


2450.000MHz E2

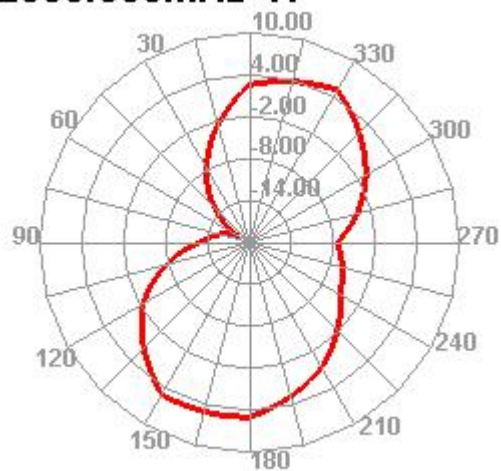


# Antenna \*Efficiency

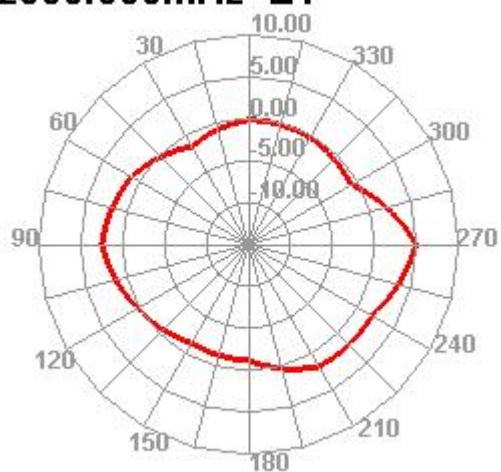
2500.000MHz



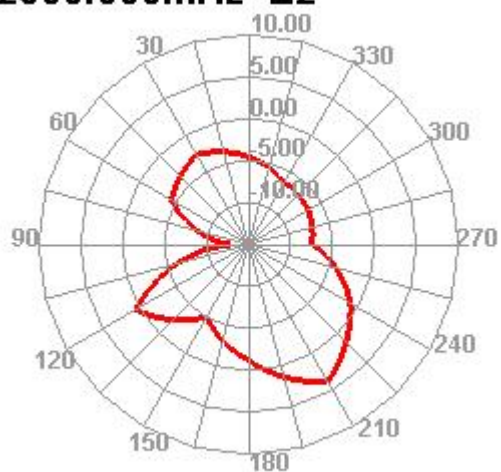
2500.000MHz H



2500.000MHz E1

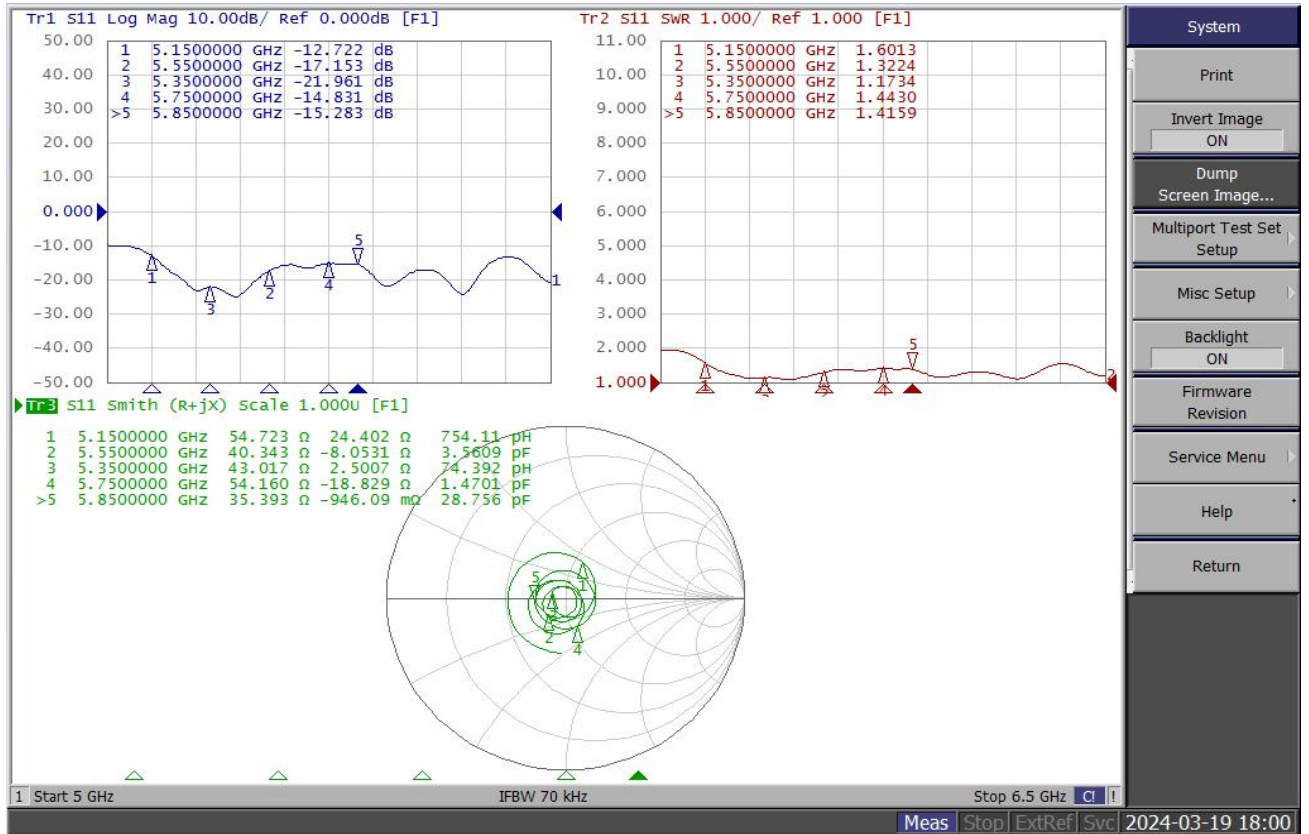


2500.000MHz E2



## 天线2.4无源测试数据

### 5G(S11/SWR/Smith)

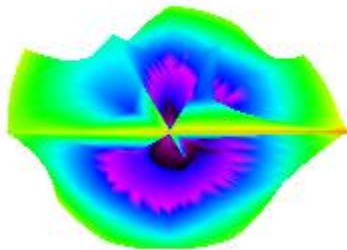


## Antenna \*Efficiency

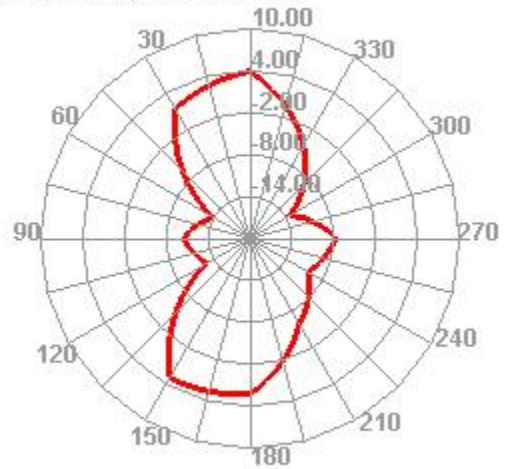
| Freq  | Effi  | Gain  |
|-------|-------|-------|
| (MHz) | (%)   | (dBi) |
| 5150  | 72.42 | 5.24  |
| 5200  | 71.92 | 5.29  |
| 5250  | 72.88 | 5.34  |
| 5300  | 72.01 | 5.35  |
| 5350  | 71.19 | 5.23  |
| 5400  | 71.37 | 5.23  |
| 5450  | 72.9  | 5.41  |
| 5500  | 72.64 | 5.12  |
| 5550  | 71.31 | 5.37  |
| 5600  | 71.85 | 5.42  |
| 5650  | 74.15 | 5.22  |
| 5700  | 72.89 | 5.11  |
| 5750  | 73.32 | 5.27  |
| 5800  | 72.07 | 5.36  |
| 5850  | 72.47 | 5.44  |

## 2D&3D方向图

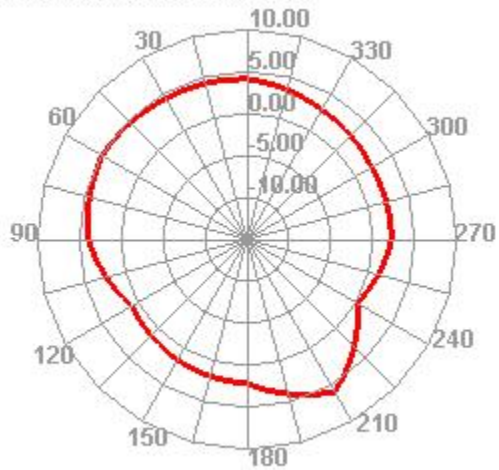
5150.000MHz



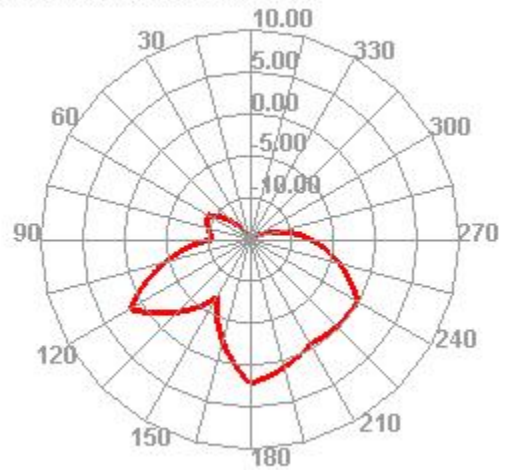
5150.000MHz H



5150.000MHz E1

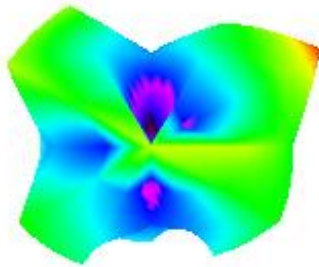


5150.000MHz E2

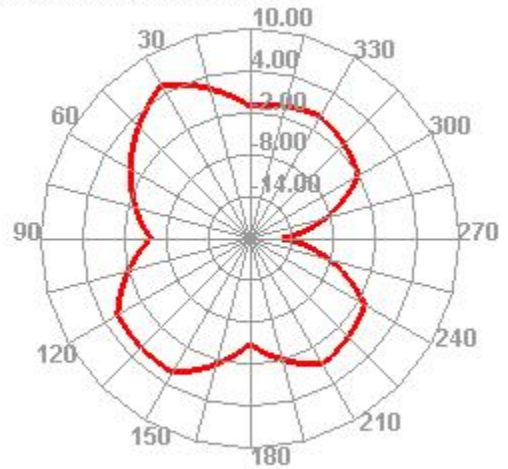


## 2D&3D方向图

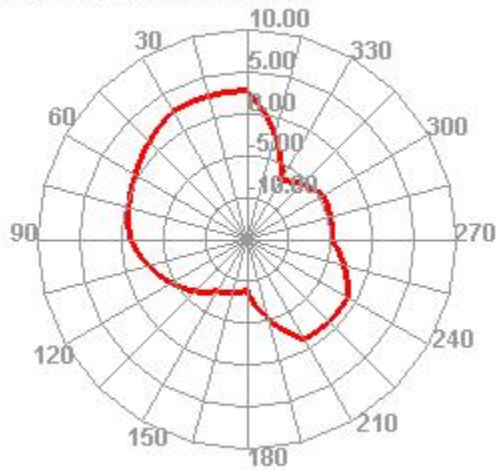
5550.000MHz



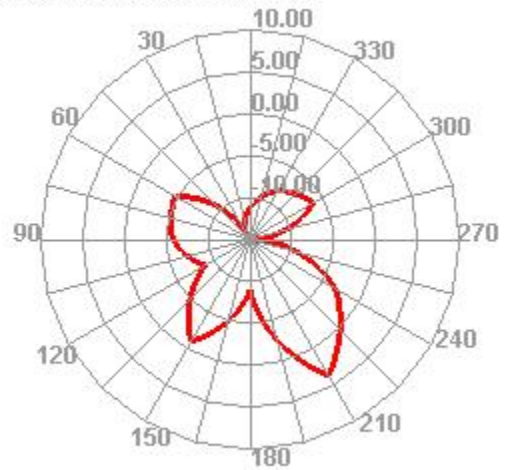
5550.000MHz H



5550.000MHz E1

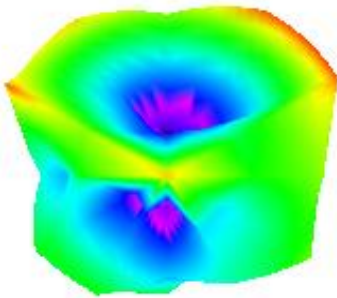


5550.000MHz E2

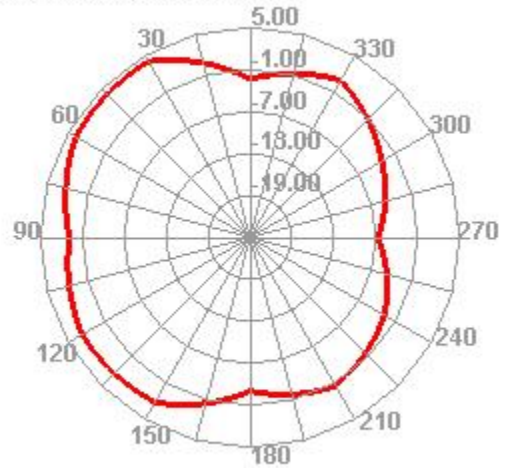


## 2D&3D方向图

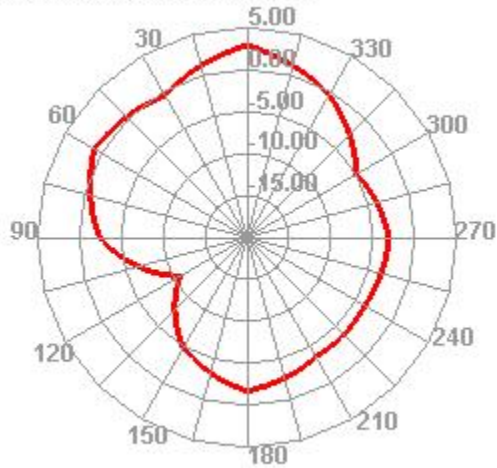
**5850.000MHz**



**5850.000MHz H**



**5850.000MHz E1**



**5850.000MHz E2**

