

规格书

SPECIFICATION FOR APPROVAL

客户名称

CUSTOMER NAME: 广联

产品名称

PRODUCT NAME: 2.4/5.85G 外置天线 L=260/120mm

客户料号

CUSTOMER P/N:

仁丰料号

Ren Feng P/N: U00T01S168N04243 REV: A

| | MANUFACTURER SIGNATURE | CUSTOMER SIGNATURE |
|--------------|---------------------------|-----------------------|
| CHECKED BY: | 周荣创 | |
| AUDITOR BY: | 宋俊 | |
| APPROVED BY: | 姚定军 | |
| DATE: | 2023-09-21 | |



东莞市仁丰电子科技有限公司

Dongguan RF Electronic Technology Co., Ltd

公司地址：东莞市塘厦镇清湖头三坑工业区1号 电话：0769-38940168 传真：0769-39010966 网址：<http://rflink.net.cn>

Contents

| | | |
|-----------------------------|-------|-------|
| 1、封面 Cover | ----- | 1 |
| 2、履历表 Resume | ----- | 2 |
| 3、目录 Contents | ----- | 3 |
| 4、规格表 Specifications sheets | ----- | 4 |
| 5、成品图 End product chart | ----- | 5-6 |
| 6、测试报告 Testing report | ----- | 7 -10 |

一、变更履历

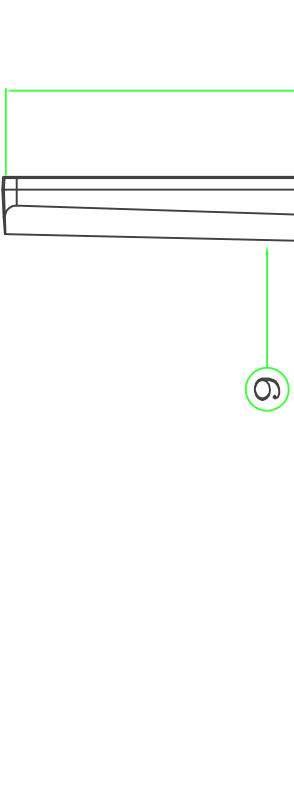
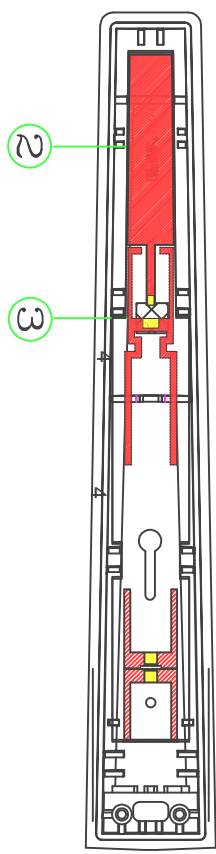
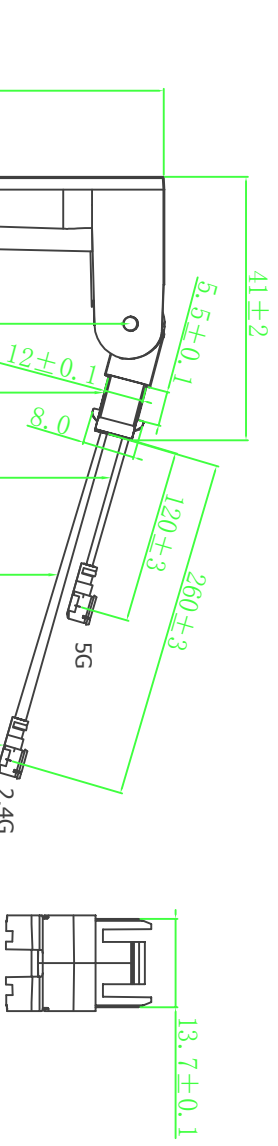
| 版本 | 日期 | 变更记录 |
|----|----|------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

二、规格表：

产品主要技术参数

| 主要技术指标 | | Main technical specifications | |
|------------------|------------------------------|-------------------------------|------------------------------|
| 频率范围 (MHZ) | 2400~2500MHZ 5150~5850MHZ | Frequency Range (MHZ) | 2400~2500MHZ 5150~5850MHZ |
| 特性阻抗(Ω) | 50 \pm 10 | Impedance(Ω) | 50 \pm 10 |
| 增益(dBi) | 3.33dbi | Peak Gain(dBi) | 3.33dbi |
| 输出电压 驻波比 | \leq 1.92 | VSWR | \leq 1.92 |
| 极化方式 | 交叉极化 | Polarization | Cross |
| 方向性 | 全向性 | Radiation | Omni-directional |
| 连接方式 | 端子 | Connector Type | terminal |
| 物理性能 | | Physical Properties | |
| 天线外套材料 | ABS | Antenna cover | ABS |
| 工作温度 | | Operating Temp | |
| 保存温度 | | Storage Temp | |

| REV | DATE | DESCRIPTION | Change the code |
|-----|------------|-------------|-----------------|
| A | 2023-09-21 | NEW ISSUE | |



| | | | | |
|-----|-------------|-----|-------------|--|
| 9 | 下盖 | 1 | ABS Gray | |
| 8 | 端子 | 2 | Copper | |
| 7 | 线材 | 1 | Ø1.37 Gray | |
| 6 | 上盖 | 1 | ABS Gray | |
| 5 | 铆钉 | 2 | POM Gray | |
| 4 | 下固 | 1 | PC+ABS Gray | |
| 3 | 泡棉 | 1 | EVA Black | |
| 2 | PCB | 1 | FR-4 | |
| 1 | 线材 | 1 | Ø1.37 Black | |
| NO. | DESCRIPTION | QTY | REMARK | |

| 尺寸 (mm) | 公差 (mm) |
|-----------|---------|
| 0<L≤6 | ±0.10 |
| 6<L≤30 | ±0.10 |
| 30<L≤90 | ±0.15 |
| 90<L≤180 | ±0.20 |
| 180<L≤315 | ±0.25 |
| 315<L≤800 | ±0.35 |

| 角度 | 公差 (°) |
|------------|--------|
| 315°<L≤800 | ±0.35 |

| APPROVED | CHECKED | DRAWING |
|----------|---------|---------|
| | | |

| CUSTOMER: | PART NO.: | PARTNAME: | R.F P/NO.: | REV | UNIT | SCALE | SIZE | SHEET |
|-----------|-----------|---------------------|------------------|-----|------|-------|------|-------|
| | | RF Antenna Assembly | U00T01S168N04243 | A | mm | 1:1 | A4 | 10F1 |

规格 (Specification) :

频率 (Frequency Range) : 2.4~2.5GHz/5.15~5.825GHz

回波损耗 (Return loss) : -10dB or less

驻波比 (VSWR) : 1.92max

增益 (Gain (peak)) : 3.33dBi



东莞市仁丰电子科技有限公司
RenFeng Electronic technology
Co., LTD.

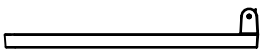
A B C D E F G

带公差尺寸为检验尺寸
产品符合环保RoHS2.0之要求

产品包装

| REV | DATE | DESCRIPTION |
|-----|------------|-------------|
| A | 2023-09-21 | NEW ISSUE |

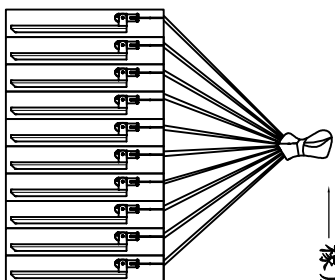
单个产品



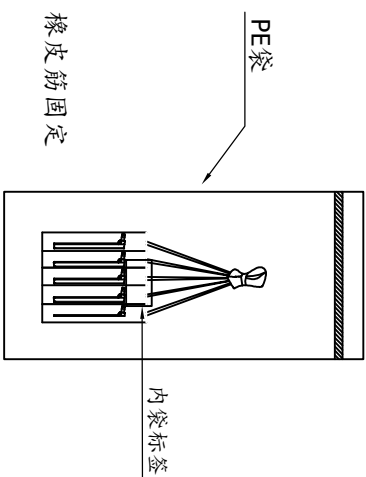
排包装说明:

1. 每大袋装50PCS产品, 每排袋装入10pcs产品.
2. 每袋需贴相应标签
3. 用珍珠棉袋/橡皮筋固定线材

排袋包装



——橡皮筋固定

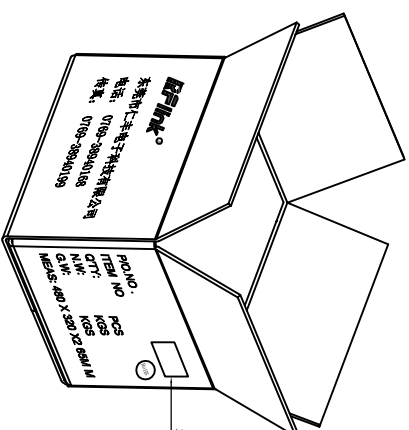


PE袋

橡皮筋固定

内袋标签

外箱包装



外箱标签

- 外箱包装说明:
1. 外箱需RoHS标识及1pc外箱标签.
 2. 每箱装10袋, 共装500pcs产品.

尺寸范围 (mm) 公差 (mm)

| | |
|-------------|-------|
| 0T1 ≤ 30 | ±0.10 |
| 0T1 ≤ 30 | ±0.10 |
| 30T1 ≤ 50 | ±0.15 |
| 30T1 ≤ 50 | ±0.20 |
| 180T1 ≤ 315 | ±0.25 |
| 315T1 ≤ 500 | ±0.35 |

APPROVED

CUSTOMER:

PART NO. :

CHECKED

PARTNAME : 外置天线出线式包装

DRAWING

R.F P/NO : U00T01S168N04243

| 尺寸范围 (mm) | 公差 (mm) |
|-------------|---------|
| 0T1 ≤ 30 | ±0.10 |
| 30T1 ≤ 50 | ±0.15 |
| 180T1 ≤ 315 | ±0.25 |
| 315T1 ≤ 500 | ±0.35 |

APPROVED

PART NO. :

REV

RFlink
 东莞市仁丰电子科技有限公司
 RenFeng Electronic technology
 Co., LTD.

产品符合环保RoHS2.0之要求

A

B

C

D

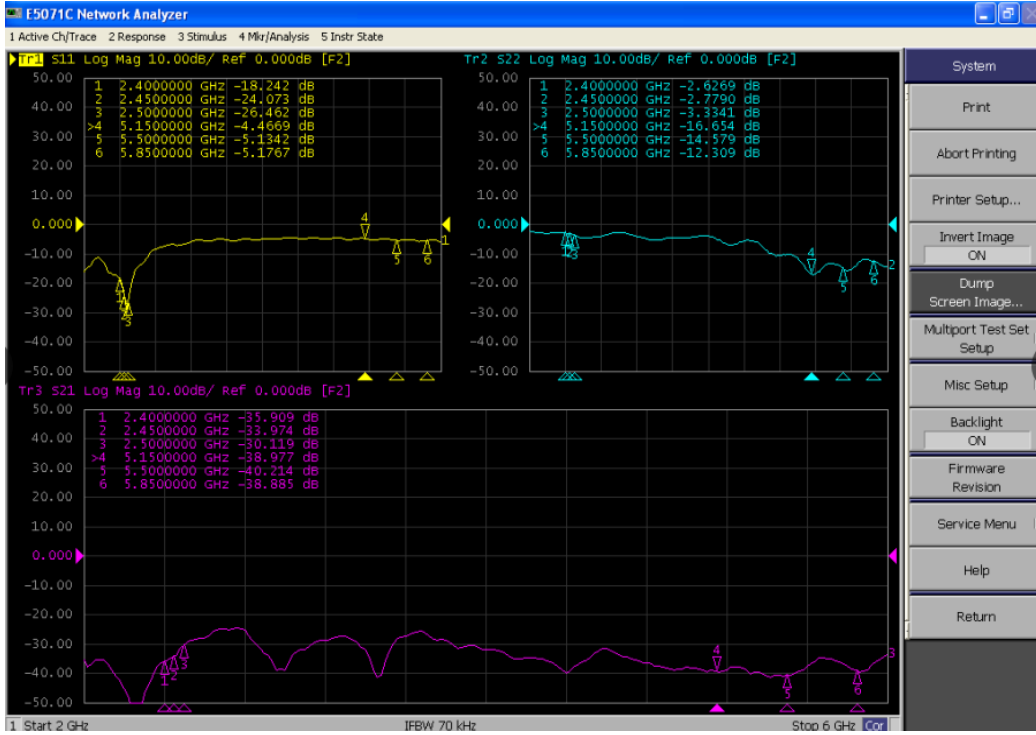
E

F

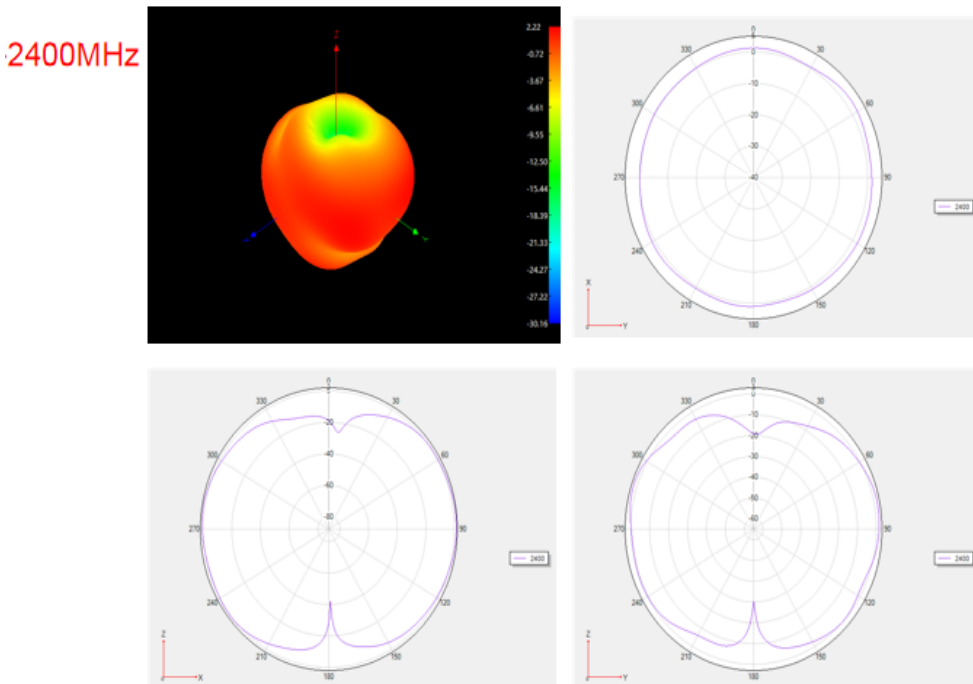
G

6. 测试报告 Testing report

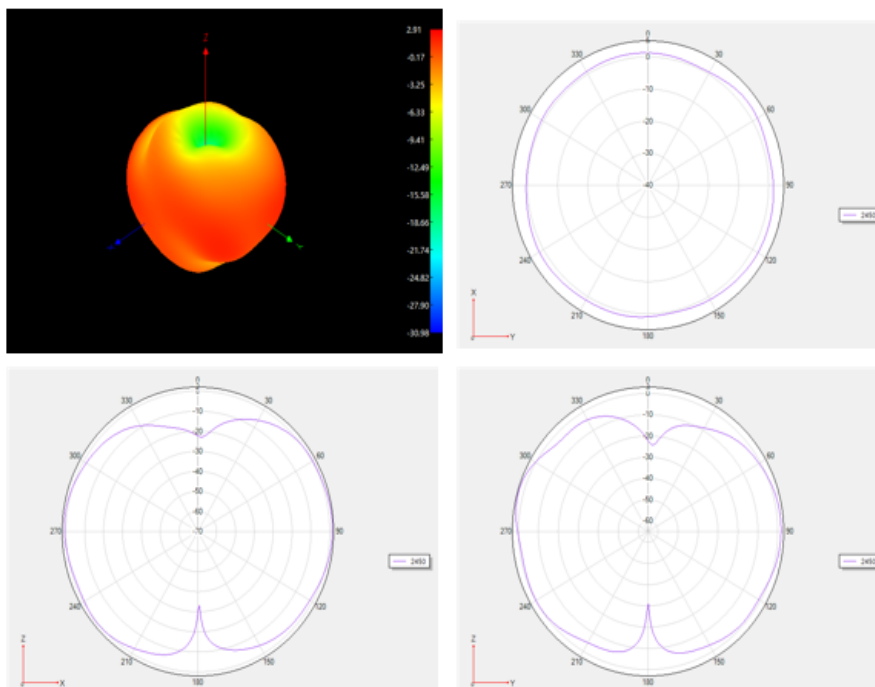
6.6.1 网络分析仪测试报告



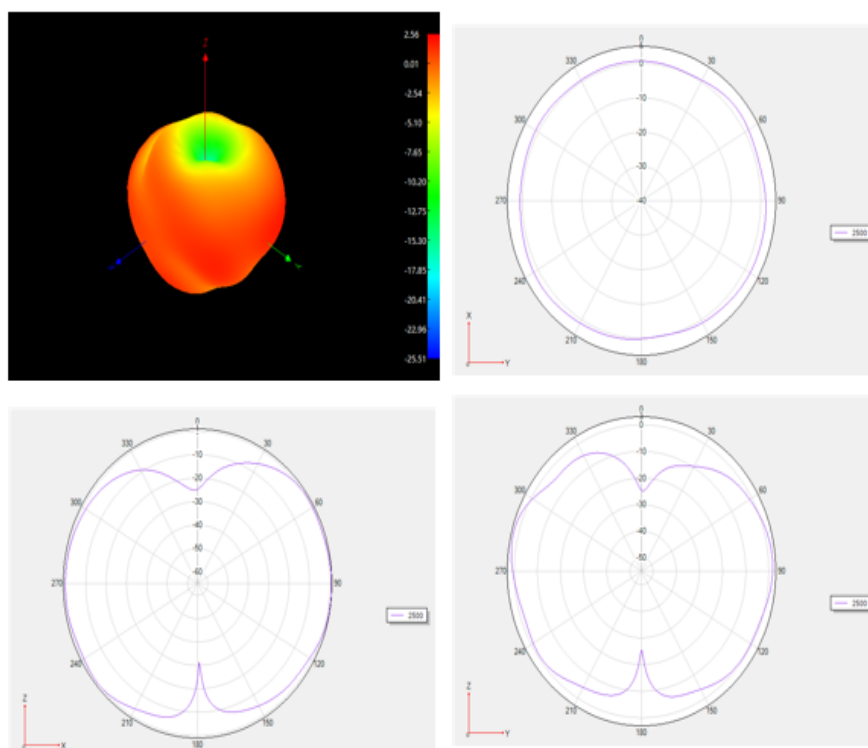
3.2: 暗室 2D、3D Radiation Pattern



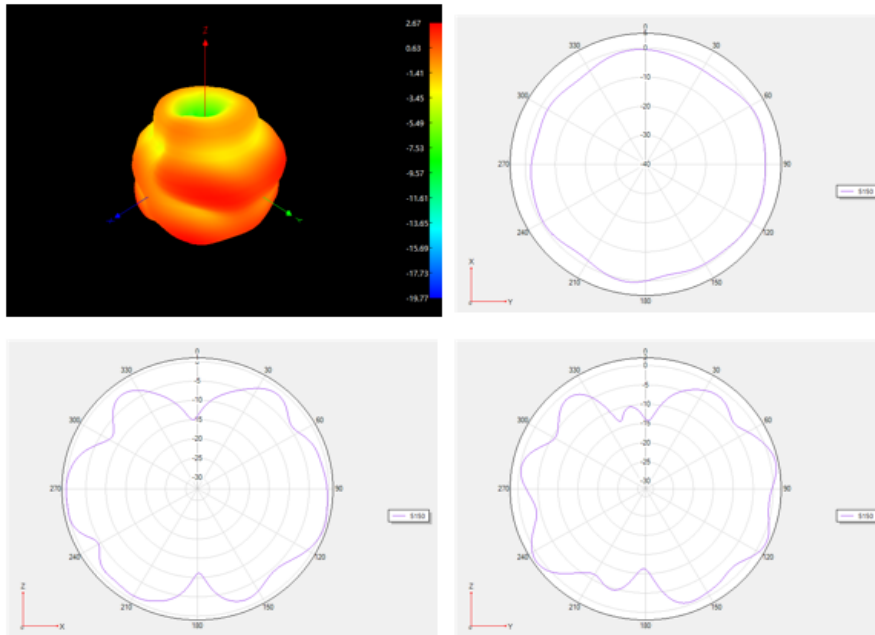
2450MHz



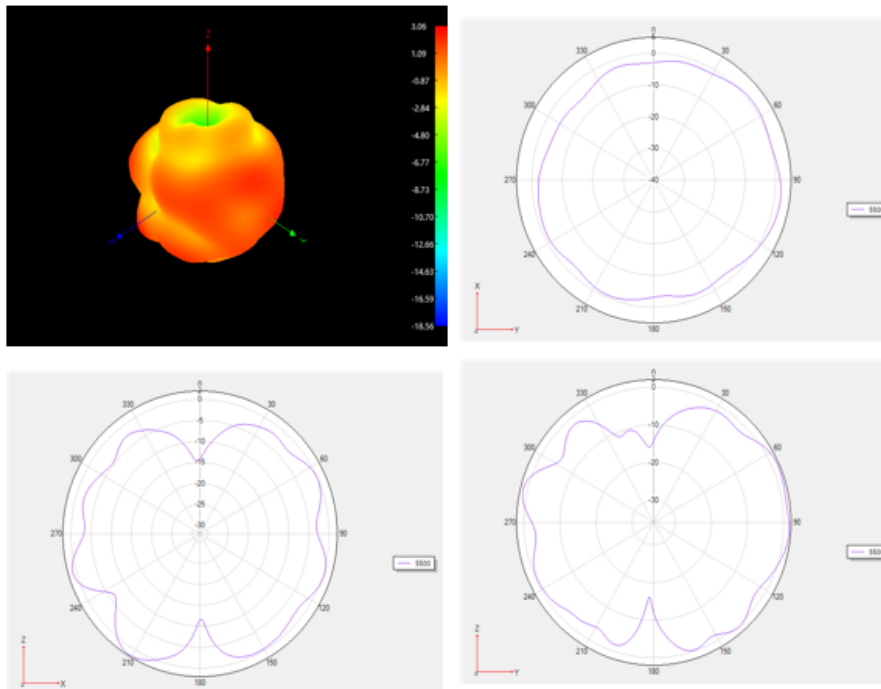
2500MHz



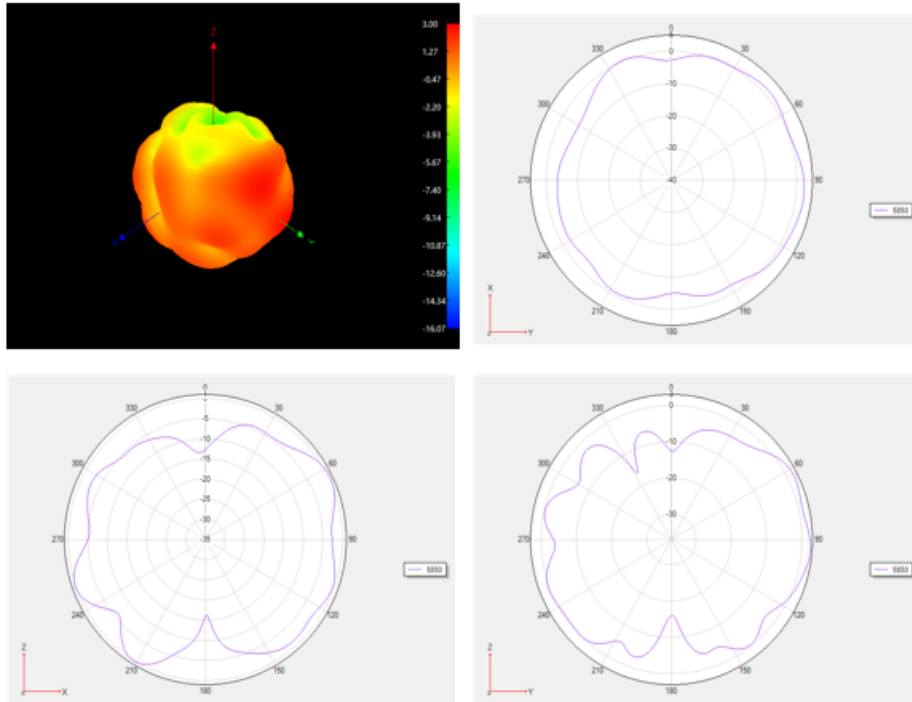
-5150MHz



-5500MHz



5850MHz



| Frequency / MHz | Gain/ dBi | Efficiency / % | Frequency / MHz | Gain/ dBi | Efficiency / % |
|-----------------|-----------|----------------|-----------------|-----------|----------------|
| 2400 | 2.22 | 68.24 | 5150 | 2.67 | 65.53 |
| 2410 | 2.42 | 68.97 | 5200 | 3.16 | 66.52 |
| 2420 | 2.43 | 67.66 | 5250 | 2.65 | 62.54 |
| 2430 | 2.46 | 66.24 | 5300 | 2.98 | 67.52 |
| 2440 | 2.72 | 68.53 | 5350 | 3.05 | 66.09 |
| 2450 | 2.91 | 69.12 | 5400 | 3.01 | 63.61 |
| 2460 | 2.79 | 65.26 | 5450 | 2.51 | 66.24 |
| 2470 | 2.63 | 64.28 | 5500 | 3.06 | 66.94 |
| 2480 | 2.67 | 64.94 | 5550 | 3.33 | 69.12 |
| 2490 | 2.69 | 65.34 | 5600 | 2.99 | 67.09 |
| 2500 | 2.56 | 64.54 | 5650 | 2.77 | 65.39 |
| | | | 5700 | 3.16 | 69.12 |
| | | | 5750 | 3.06 | 64.57 |
| | | | 5800 | 3.01 | 64.98 |
| | | | 5850 | 3 | 66.38 |