

# 深圳市天联凌科技有限公司

Shenzhen SKYLink Technology Co.,Ltd

## 天线规格承认书Antenna Spec.

编号: SLS0A2020011501

客户名称customer name: \_\_\_\_\_

项目名称project: Q09-5  
\_\_\_\_\_

产品描述spec.: FPC 1.13mm black, long 60mm  
\_\_\_\_\_

产品料号material: C WF03A. C113. 60B. 1  
\_\_\_\_\_

板本version: V1.0  
\_\_\_\_\_

日期date: 2020-01-15  
\_\_\_\_\_

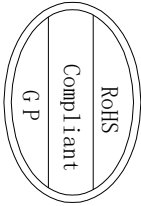
Don't copy

|               |            |             |
|---------------|------------|-------------|
| 工程engineering | 采购purchase | 承认recognize |
|               |            |             |

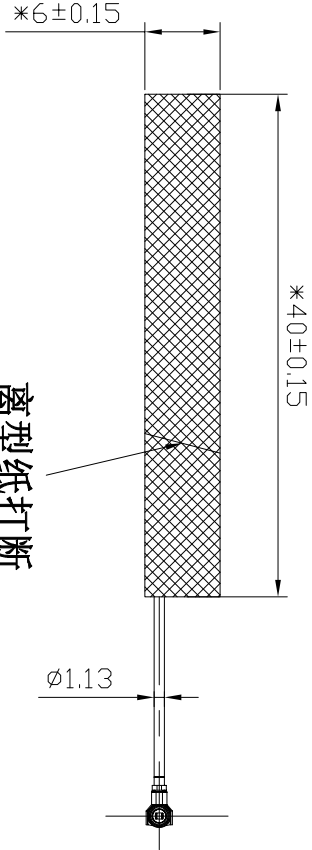
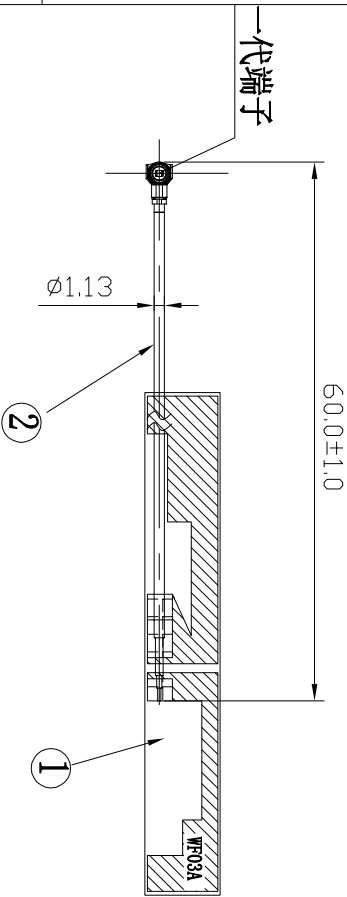
|       |               |          |
|-------|---------------|----------|
| 研发R&D | 工程engineering | 审核review |
|       |               |          |

# 规格概述

| 电特性                                       |                                           |
|-------------------------------------------|-------------------------------------------|
| 频率 frequency range                        | 2400MHz ~2500MHz                          |
| 电压驻波比VSWR                                 | <2.0                                      |
| 效率efficiency                              | >30%                                      |
| 增益gain                                    | 2dbi                                      |
| 阻抗impedance                               | 50 欧姆 50(Ohm)                             |
| 极化方式polarization                          | 线极化linearly polarized                     |
|                                           |                                           |
| 材料和机械特性Material and mechanical properties |                                           |
| 材料materials                               | FPC black                                 |
| 线材类型Type of wire                          | 1.13MM, black                             |
| 端子类型Connector Types                       |                                           |
| 图纸尺寸Dimensions                            | 详见图纸See the drawing for details           |
| 丝印方式silk-screen                           | 黑底白字white character with black background |
|                                           |                                           |
| 环境特性environmental characteristics         |                                           |
| 储存温度 storage temperature                  | - 30 °C ~ + 85 °C                         |
| FPC 焊接温度<br>welding temperature           | 280±5°C 浸渍时间dipping time:10秒              |
| 射频线焊接温度<br>Rf wire welding temperature    | 320±5°C 2-3秒                              |



优擎



注:

- 1.“\*”为重点尺寸；
2. 未标注尺寸请依图纸；
3. Pb、Hg、Cr+6、PBBs、PBDEs各项小于1000PPM，Cd小于100PPM。

| Rev |  |  |  | Date        |  | Remark |  |
|-----|--|--|--|-------------|--|--------|--|
| A   |  |  |  | New drawing |  |        |  |
| 1   |  |  |  | Description |  |        |  |

|     |          |          |        |        |
|-----|----------|----------|--------|--------|
| 2   | 端子同轴线    | 镀银铜丝     | 黑色     |        |
| 1   | WIFI天线   | FPC      | 黑色     |        |
| No. | PartName | Material | Colour | Remark |

|                       |       |         |       |                            |  |                  |  |
|-----------------------|-------|---------|-------|----------------------------|--|------------------|--|
| 深 圳 天 联 凌 科 技 有 限 公 司 |       |         |       | SHEN ZHEN SKYlink CO., LTD |  |                  |  |
| Third Angle           |       | Project |       | Date                       |  | 2021-07-28       |  |
| 0~10                  | ±0.05 | ○       | 0.02  | Part Name                  |  | WIFI天线           |  |
| 10~18                 | ±0.10 | ◎       | ∅0.03 | Part No.                   |  | WFO3A.C113.60B.1 |  |
| 18~30                 | ±0.12 | ⊥       | 0.02  | Material                   |  |                  |  |
| 30~40                 | ±0.15 | ∠       | 0.04  | DWG No.                    |  |                  |  |
| 40~                   | ±0.20 | Angle   | ±0.5° | Unit                       |  | mm               |  |
| Location              |       | DWG No. |       | Approved by                |  | Scale            |  |
|                       |       |         |       |                            |  | 1:1              |  |
|                       |       |         |       |                            |  | Rev              |  |
|                       |       |         |       |                            |  | A                |  |

## ● 测试设备与条件 Test equipment and conditions1

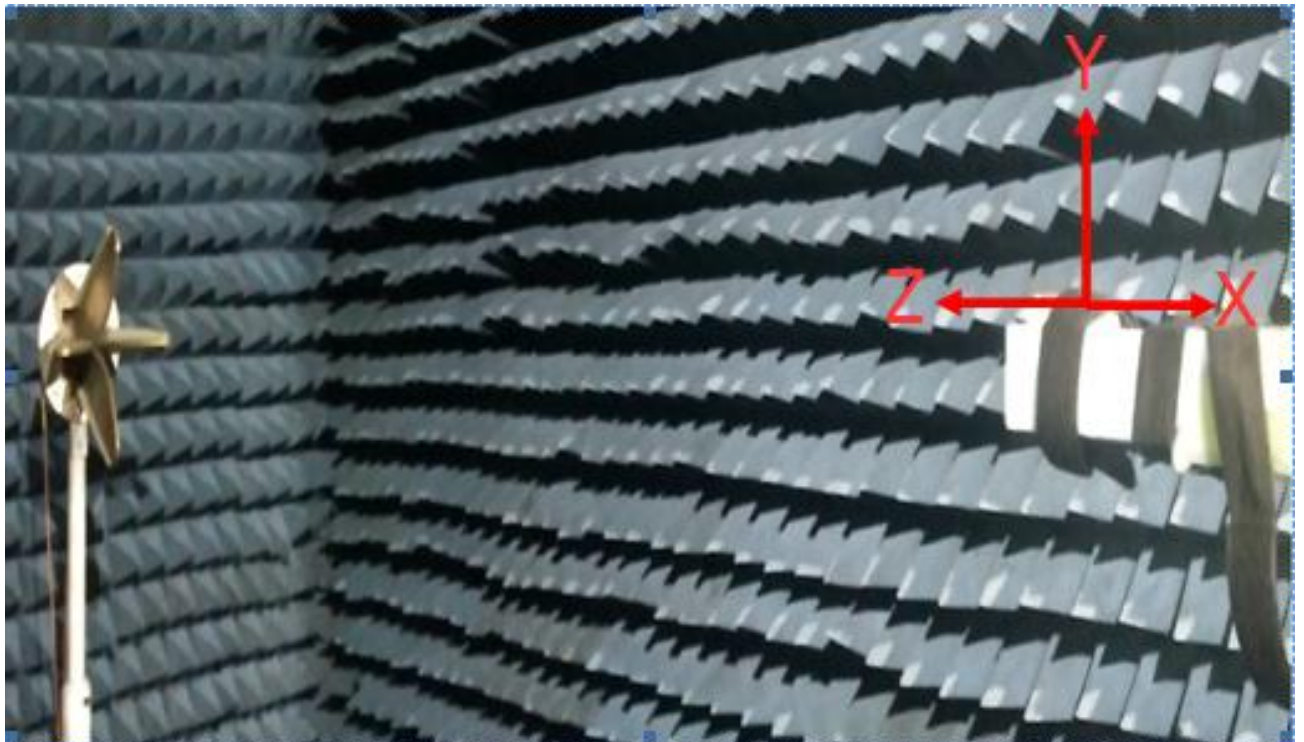
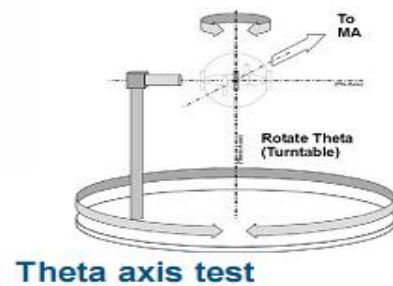
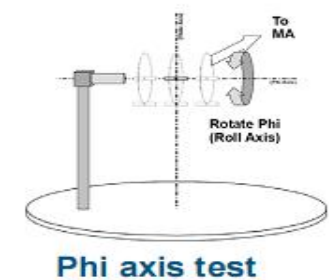
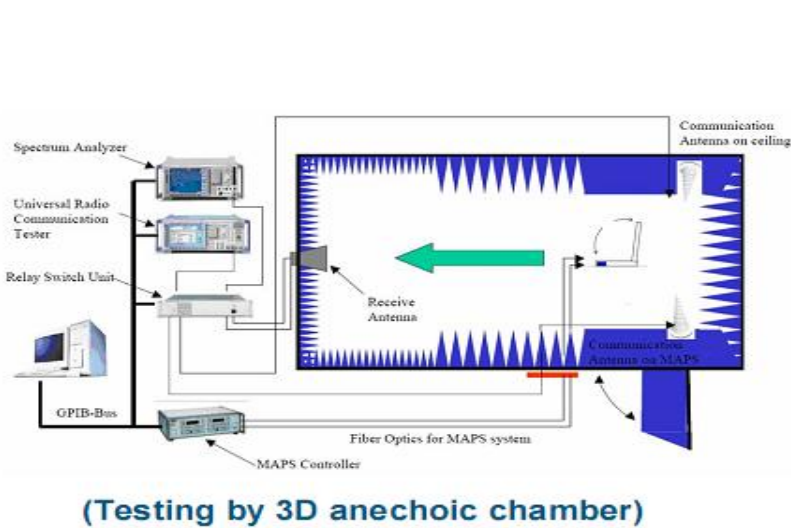
· 网络分析 network analyzer :

Agilent 8753D    Agilent 5071B

通讯测试设备:

Agilent E5515C    R&S    CMW500

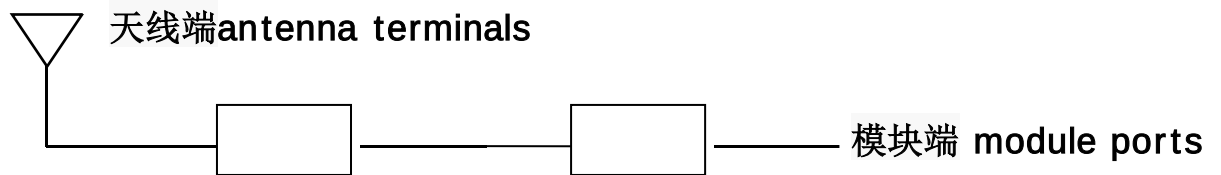
## 2. 3D测试系统



地址：深圳市宝安区71区留仙一路二巷26号L栋5楼5D  
Address: 5D, Floor 5, Building L, No. 26, Lane 2, Liuxian  
First Road, Baoan District 71, Shenzhen

传真 0755-85263741

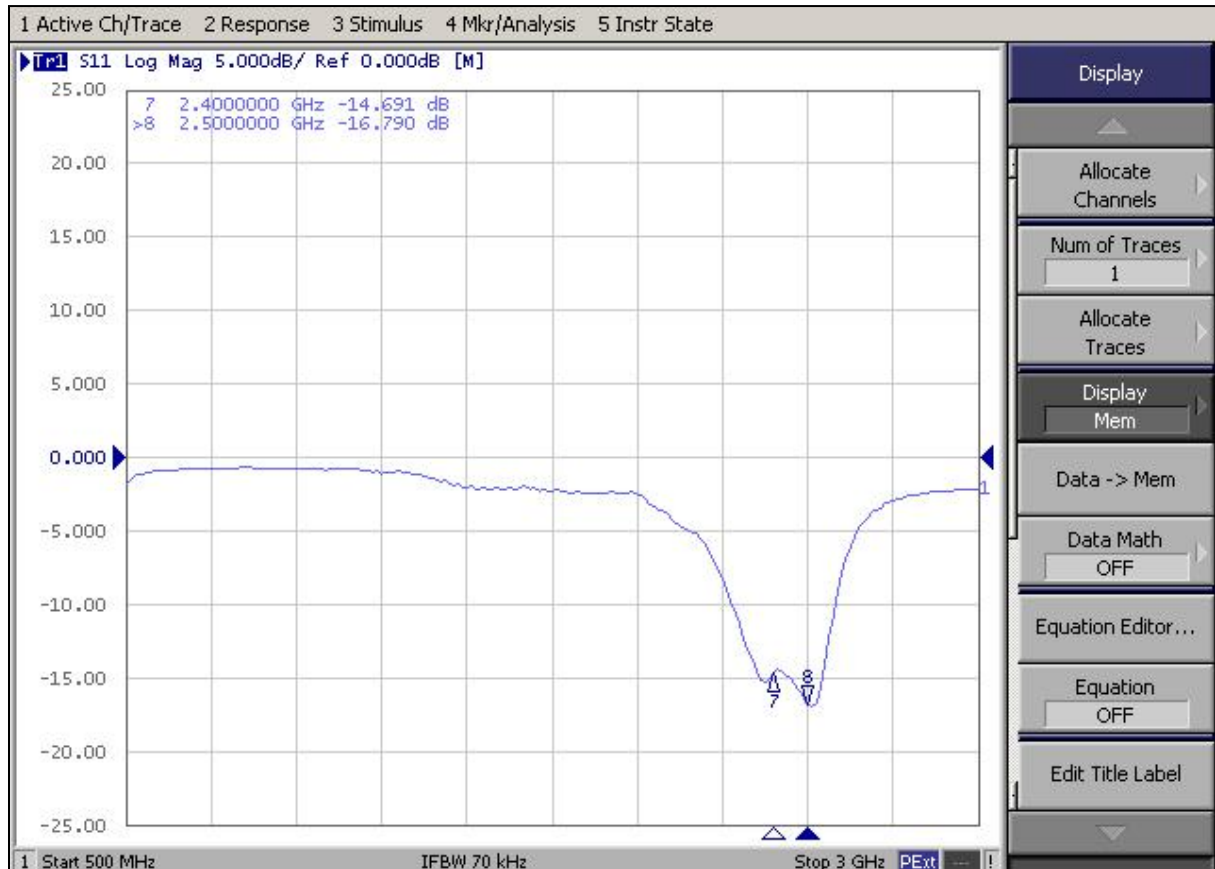
- 匹配电路match circuit



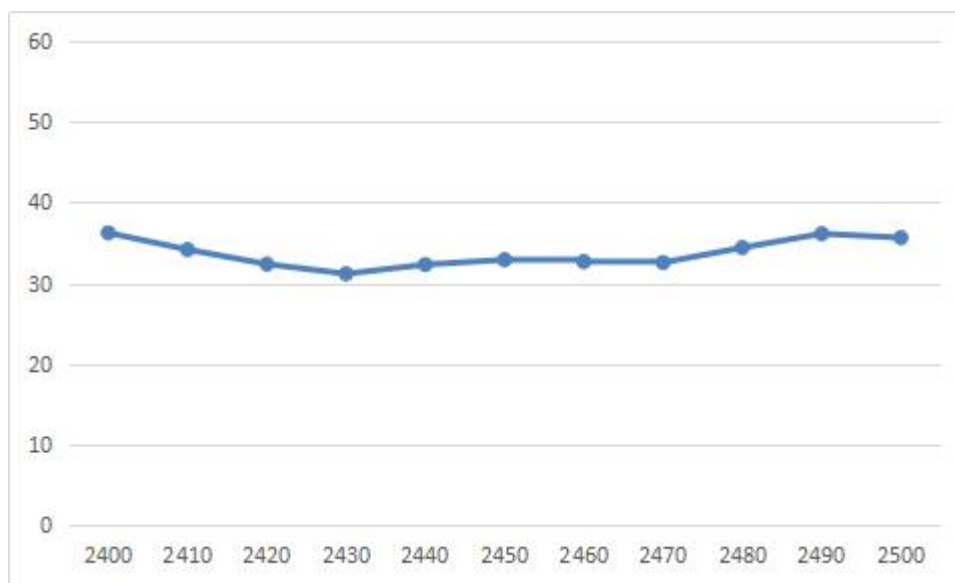
原主板匹配电路不变  
Original motherboard  
matching circuit unchanged

- 无源测试报告Passive test report

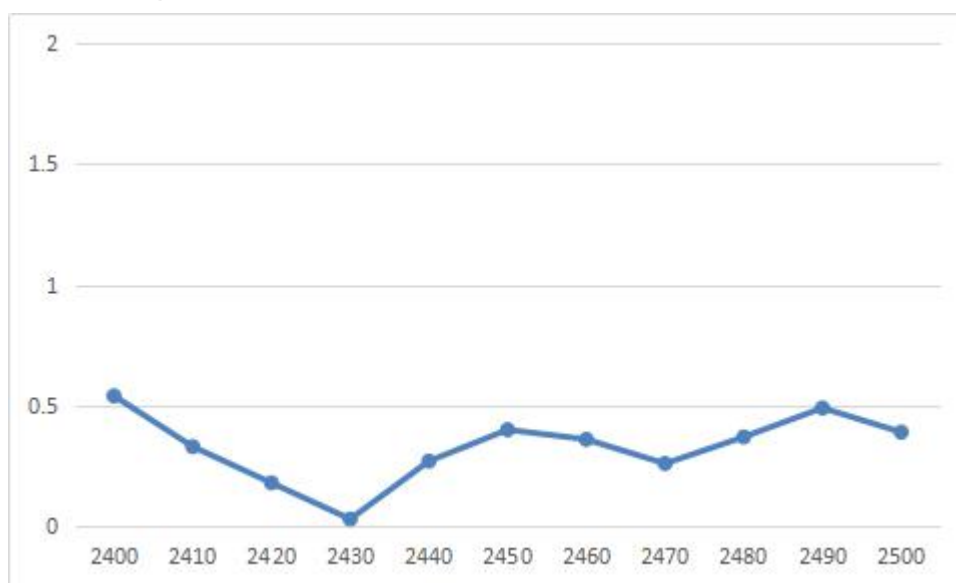
- ◆ 回波损耗图Return loss diagram



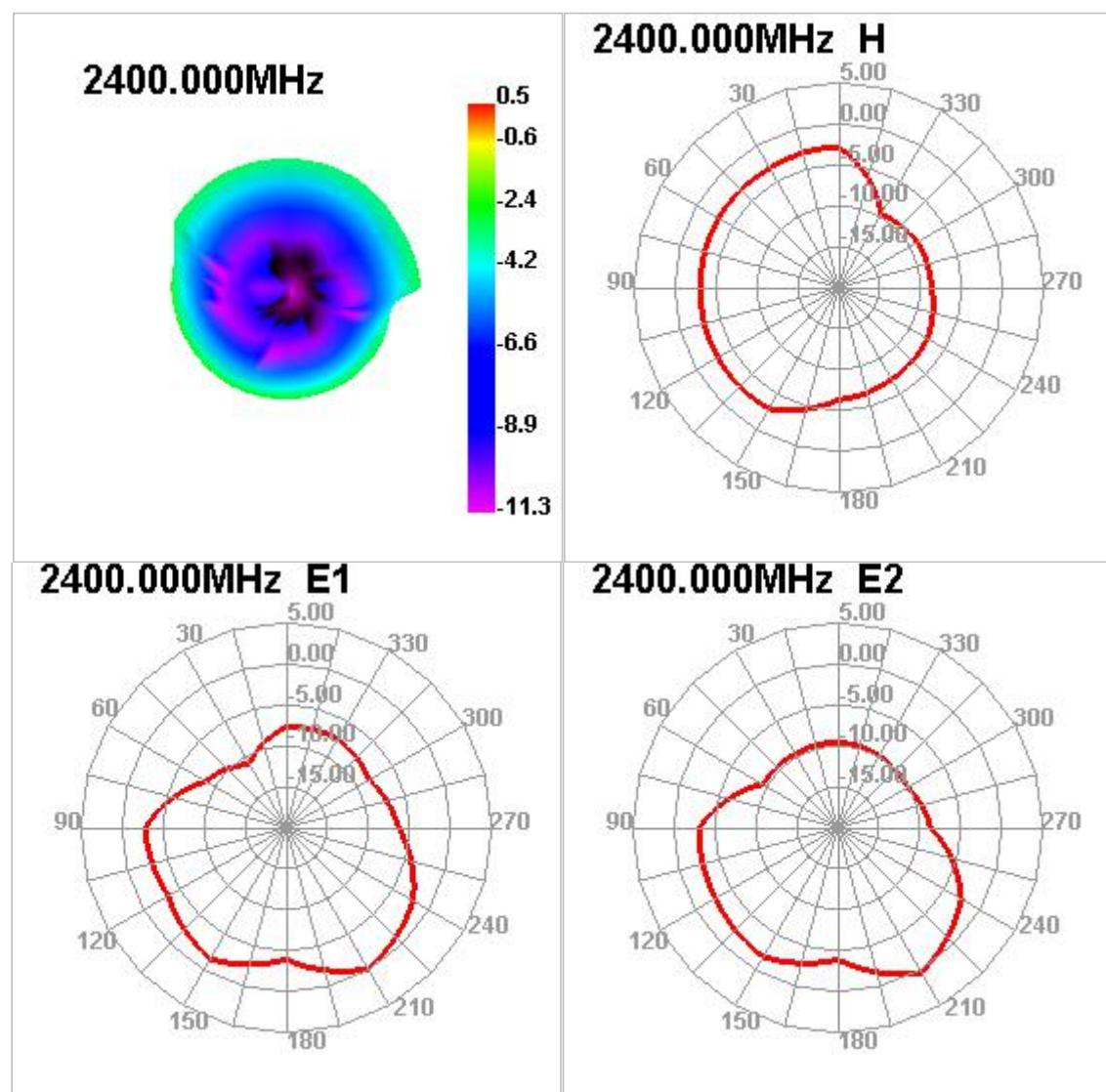
## ◆ 效率efficiency



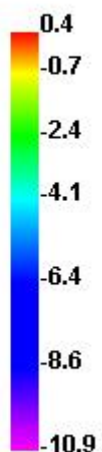
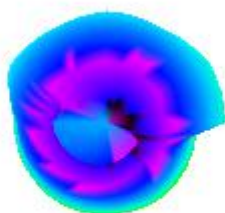
## ◆ 增益gain



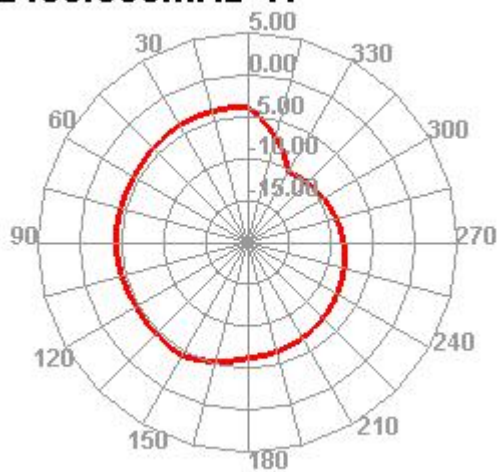
## 辐射方向图 Radiation Pattern



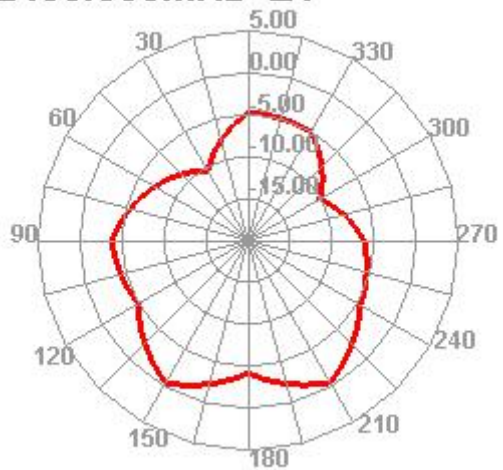
2450.000MHz



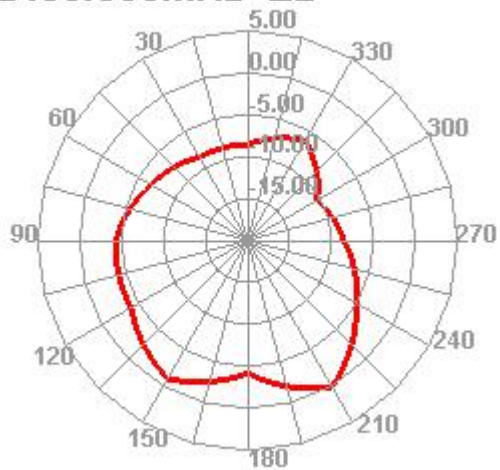
2450.000MHz H



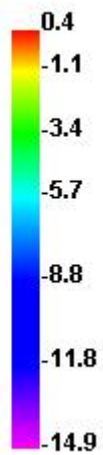
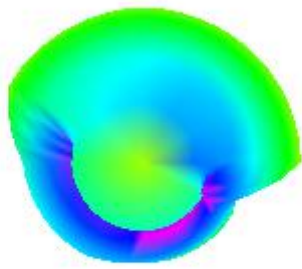
2450.000MHz E1



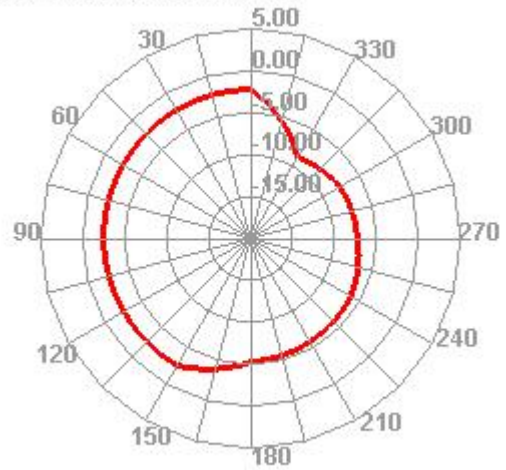
2450.000MHz E2



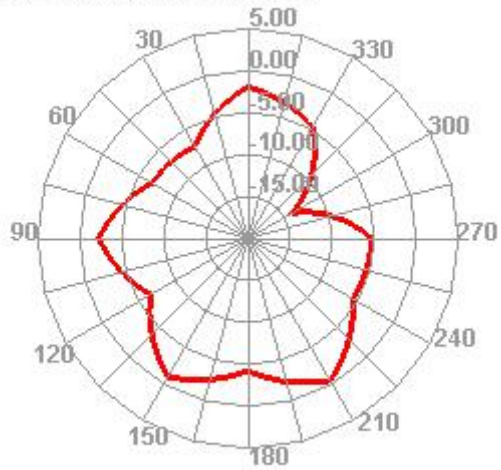
2500.000MHz



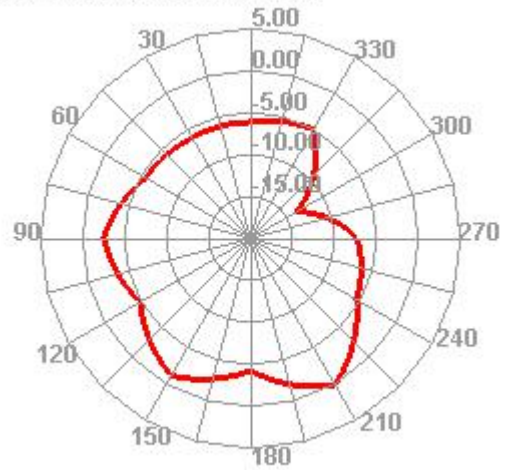
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



## 天线装配方式Antenna assembly mode



WIFI 天线如图所示粘贴  
Wi-Fi antenna location

地址：深圳市宝安 71 区留仙一路二巷 26 号 L 栋 5 楼 5D  
Address: 5D, Floor 5, Building L, No. 26, Lane 2, Liuxian  
First Road, Baoan District 71, Shenzhen

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