



# 承 认 书

## APPROVAL SHEET

客户名称 Customer Name \_\_\_\_\_ RSR

产品型号 Product Model \_\_\_\_\_ PB Encore 2

客户料号 Customer P/N \_\_\_\_\_

规格描述 Specifications \_\_\_\_\_ BT-2 ANT

南斗星料号 Southstar P/N \_\_\_\_\_ 3. N204. 0425

制作日期 Production date \_\_\_\_\_ 2024. 10. 24

制作版本 Revision \_\_\_\_\_ 2. 0

| 南斗星 (Southstar) |          |          |
|-----------------|----------|----------|
| 编制 (FICTION)    | 品质 (DQE) | 研发 (R&D) |
|                 |          |          |
| 客户 (Customer)   |          |          |
| 采 购 (PUR)       | 品质 (QC)  | 研发 (R&D) |
|                 |          |          |

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## 承认书变更履历

| 版本<br>version | 日期<br>date   | 变更描述<br>Change description | 备注<br>notes |
|---------------|--------------|----------------------------|-------------|
| 1.0           | 2024. 9. 5   | 初版<br>First edition        |             |
| 2.0           | 2024. 10. 24 | 优化天线<br>Optimize antenna   |             |
|               |              |                            |             |
|               |              |                            |             |
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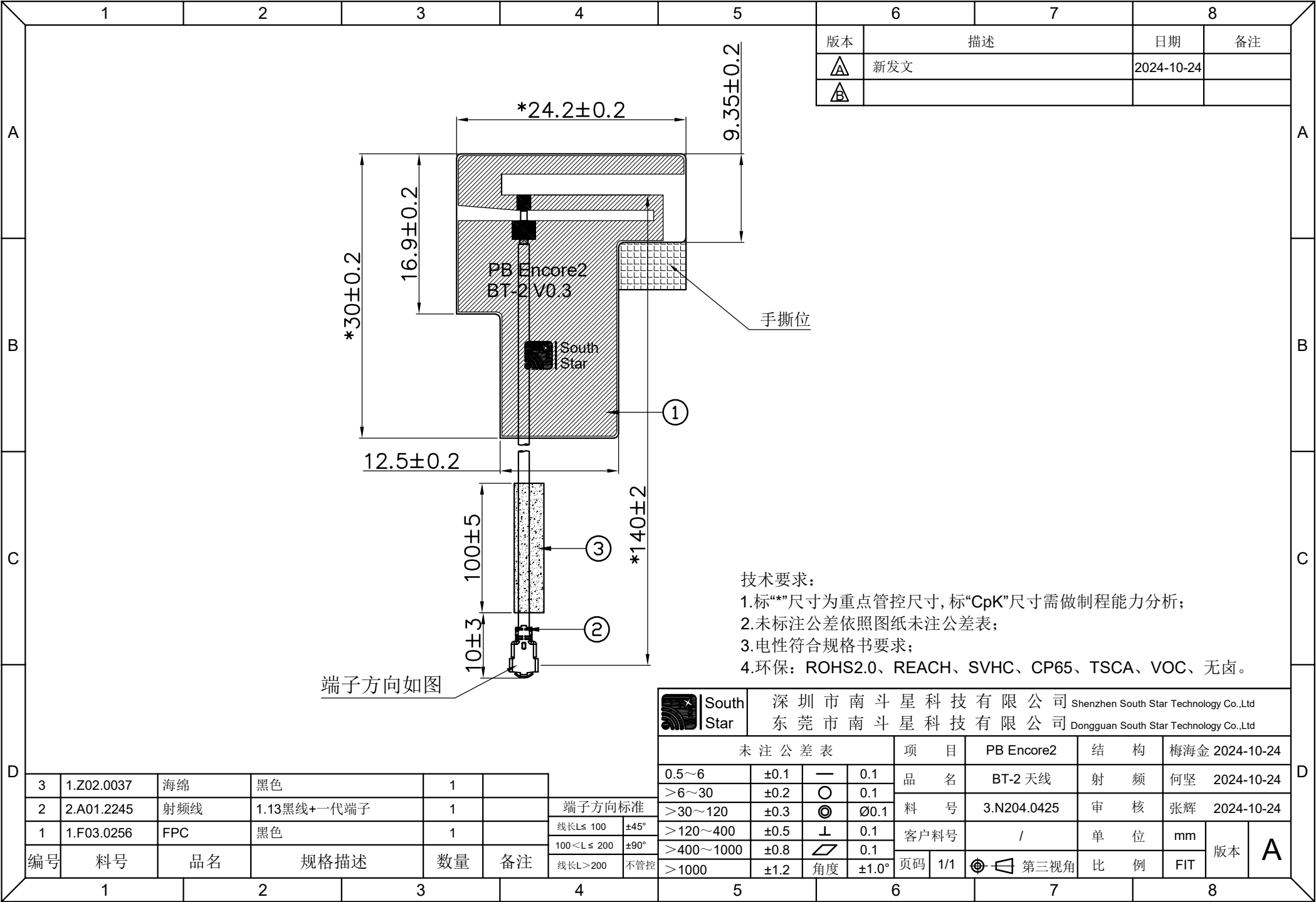
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## 基本参数 (The basic parameters)

| A. 电性能Electrical Characteristics                |                   |
|-------------------------------------------------|-------------------|
| Frequency 频率                                    | 2400MHz~2500MHz   |
| VSWR 电压驻波比                                      | < 2               |
| Efficiency 效率                                   | >51%              |
| Impedance 阻抗                                    | 50 Ohm            |
| Polarization 极化                                 | Linear            |
| Peak Gain 最大增益                                  | 2.37dBi           |
| Antenna type 天线类型                               | PIFA              |
| B. 材料&物理性能Material & Mechanical Characteristics |                   |
| 射频材料 Material of Radiator                       | FPC Black         |
| 射频线类型 Cable Type                                | 1.13mm Black      |
| 接头类型 Connector Type                             | 1 代               |
| C. 环境 Environmental                             |                   |
| 工作温度 Operation Temperature                      | - 30° C ~ + 65° C |
| 存放温度 Storage Temperature                        | - 40° C ~ + 70° C |



## 测试设备 (Test Equipment & Conditions)

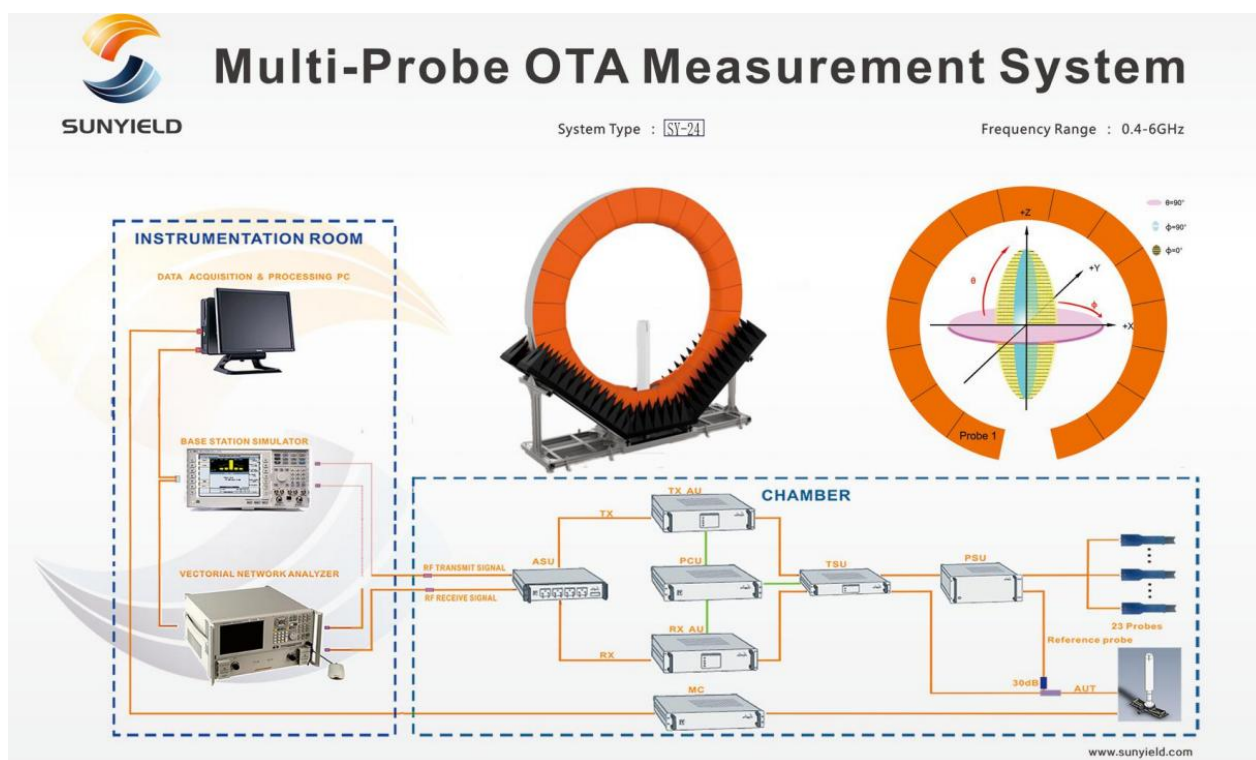
### 1. 网络分析仪 NetWork Analyzers:

Keysight E5071C

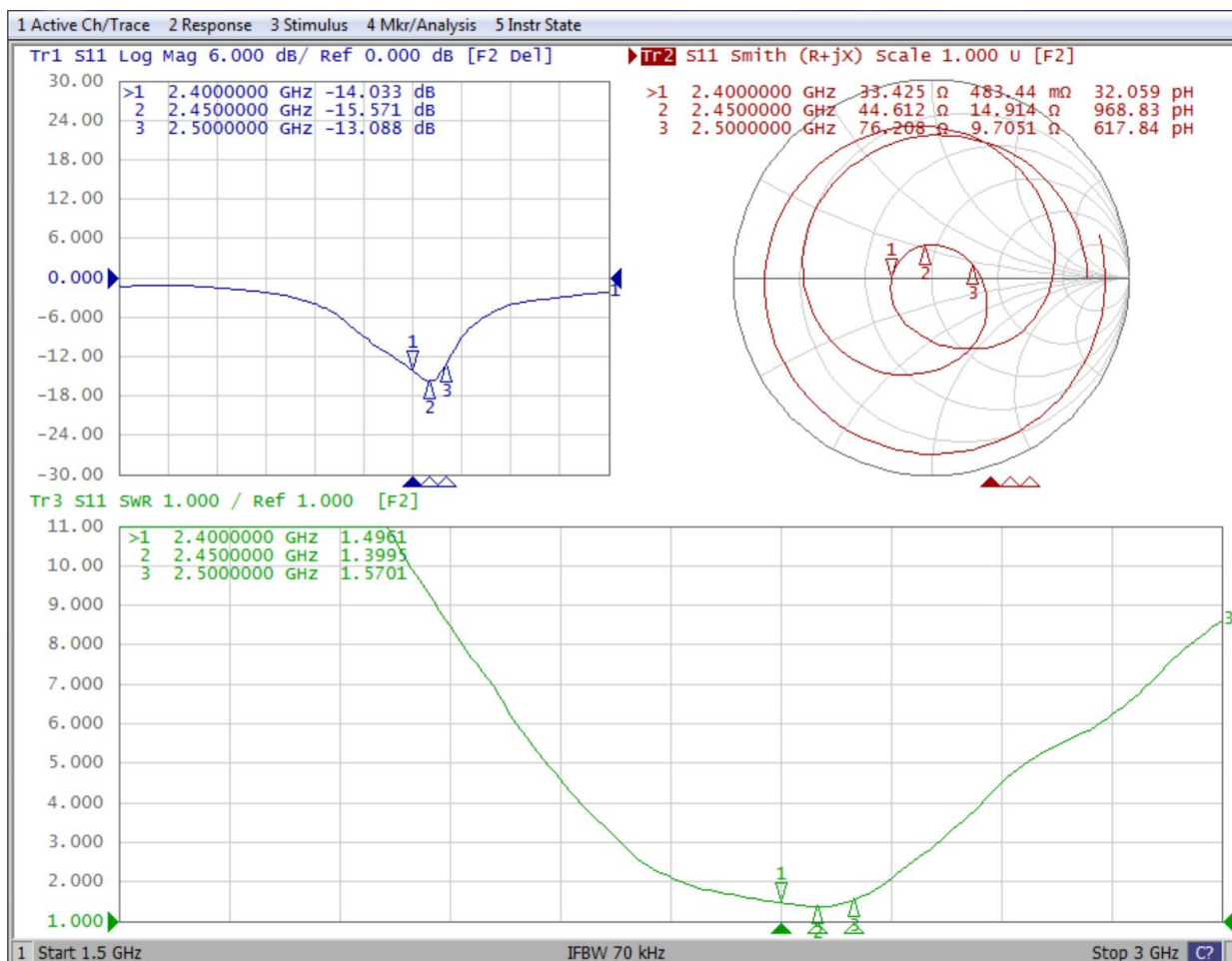
### 2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

### 3. 3D 暗室测试系统 3D Chamber Test System:



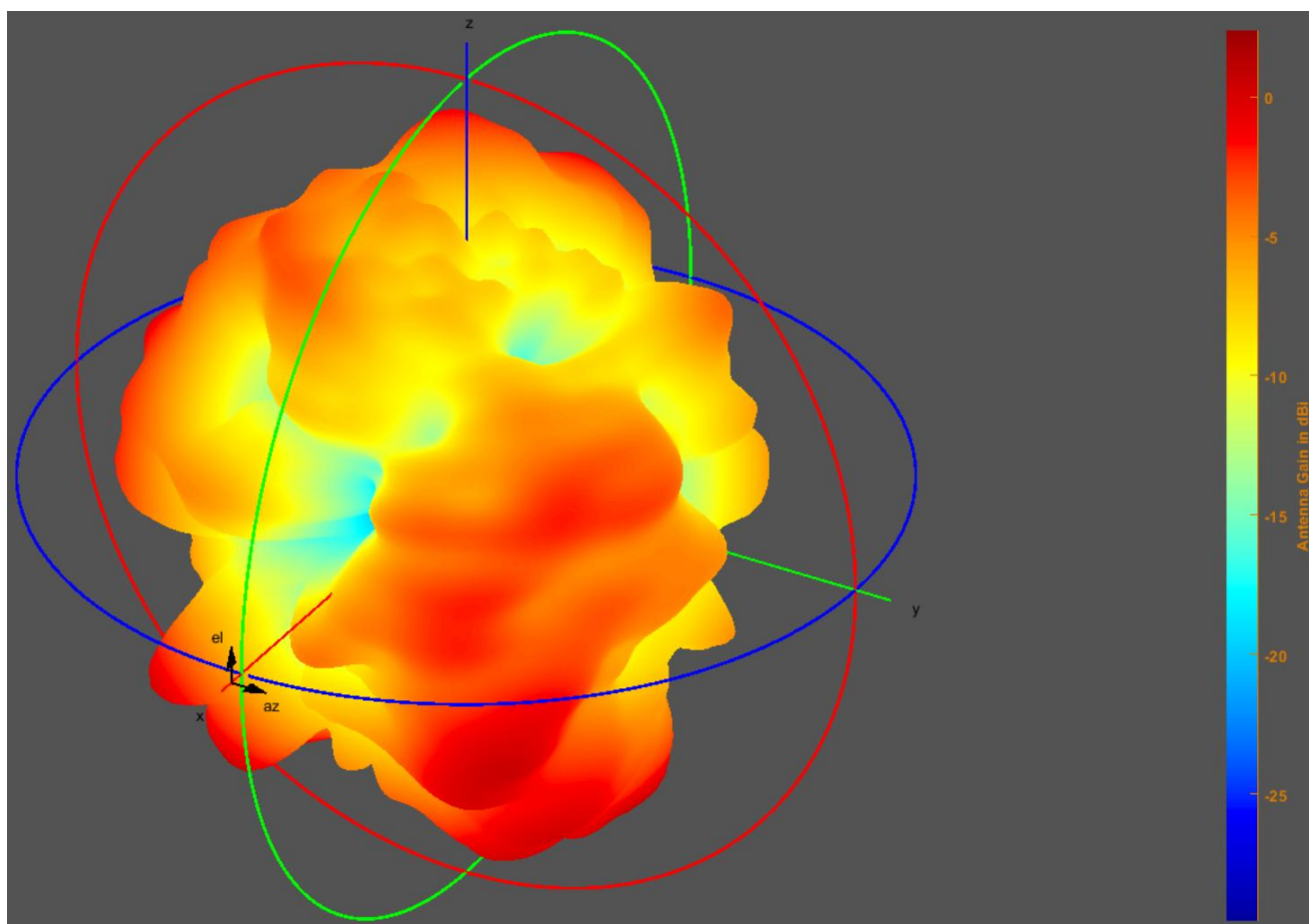
天线阻抗Antenna Impedance: S11



效率&增益Efficiency & Gain:

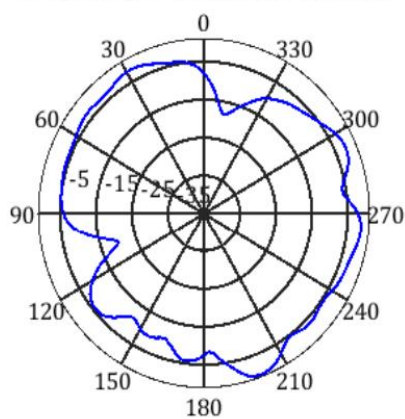
| Frequency (MHz) | Gain(dBi) | Efficiency(%) |
|-----------------|-----------|---------------|
| 2400            | 2.19      | 51.76         |
| 2410            | 2.23      | 52.60         |
| 2420            | 2.25      | 51.80         |
| 2430            | 2.17      | 53.45         |
| 2440            | 2.25      | 53.13         |
| 2450            | 2.37      | 53.28         |
| 2460            | 2.32      | 52.67         |
| 2470            | 2.28      | 52.98         |
| 2480            | 2.29      | 52.31         |
| 2490            | 2.31      | 51.89         |
| 2500            | 2.25      | 51.23         |
| avg.            | 2.26      | 52.46         |

天线3D&2D方向图Antenna 3D & 2D pattern:

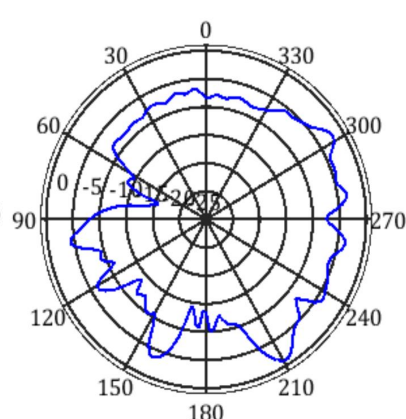


2450MHz—3D

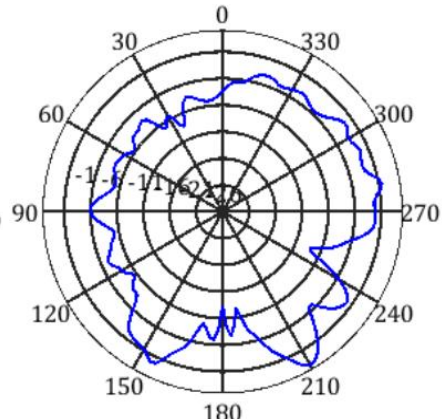
frequency=2450MHz, X-Y Plane



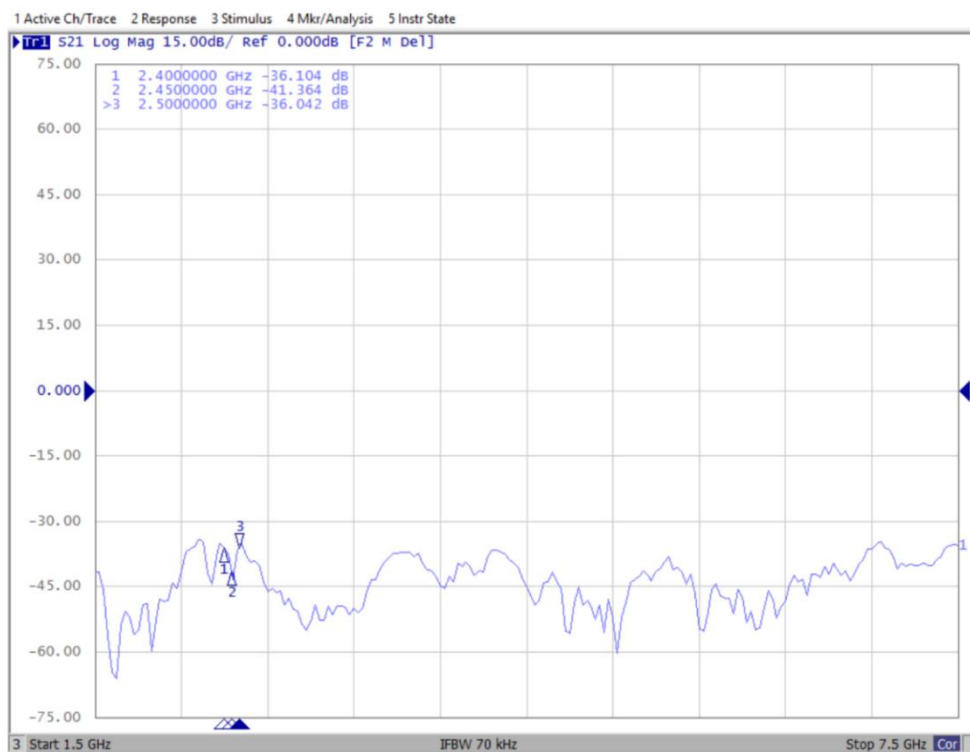
frequency=2450MHz, X-Z Plane



frequency=2450MHz, Y-Z Plane



## 隔离度Isolation:



| 频率<br>(MHz) | S21(dB) |
|-------------|---------|
| 2400        | -36     |
| 2450        | -41     |
| 2500        | -36     |

