

# BT Antenna Test Report



|                     |        |
|---------------------|--------|
| Customer            | 传音     |
| Project             | SP315B |
| Product Description |        |

|                |            |             |        |
|----------------|------------|-------------|--------|
| Report Date    | 2024.12.28 | Prepared by | Hao_li |
| Report Version | V3         | Checked by  |        |

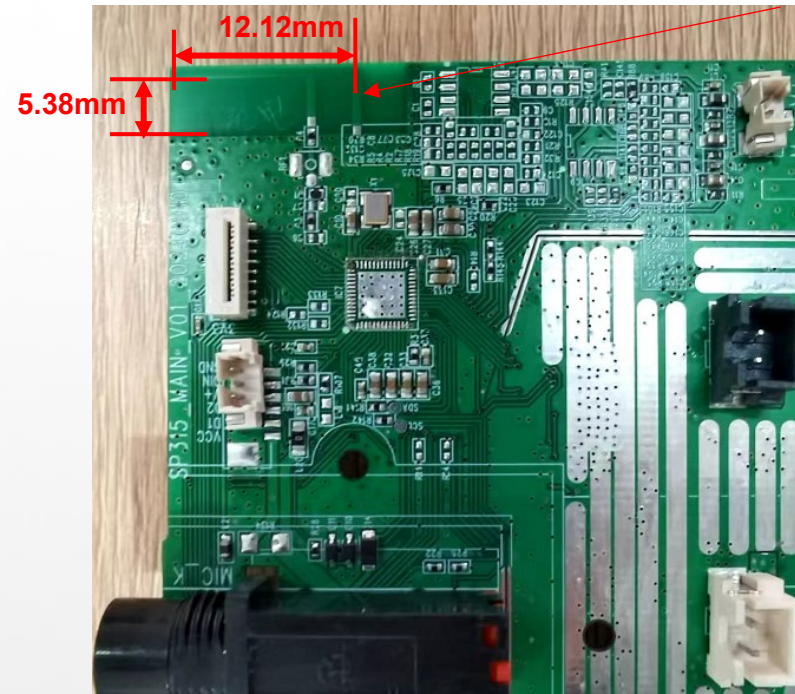
# Introduction

**I. Test Condition**

**II. Test Result**



# I. Test Condition



Antenna

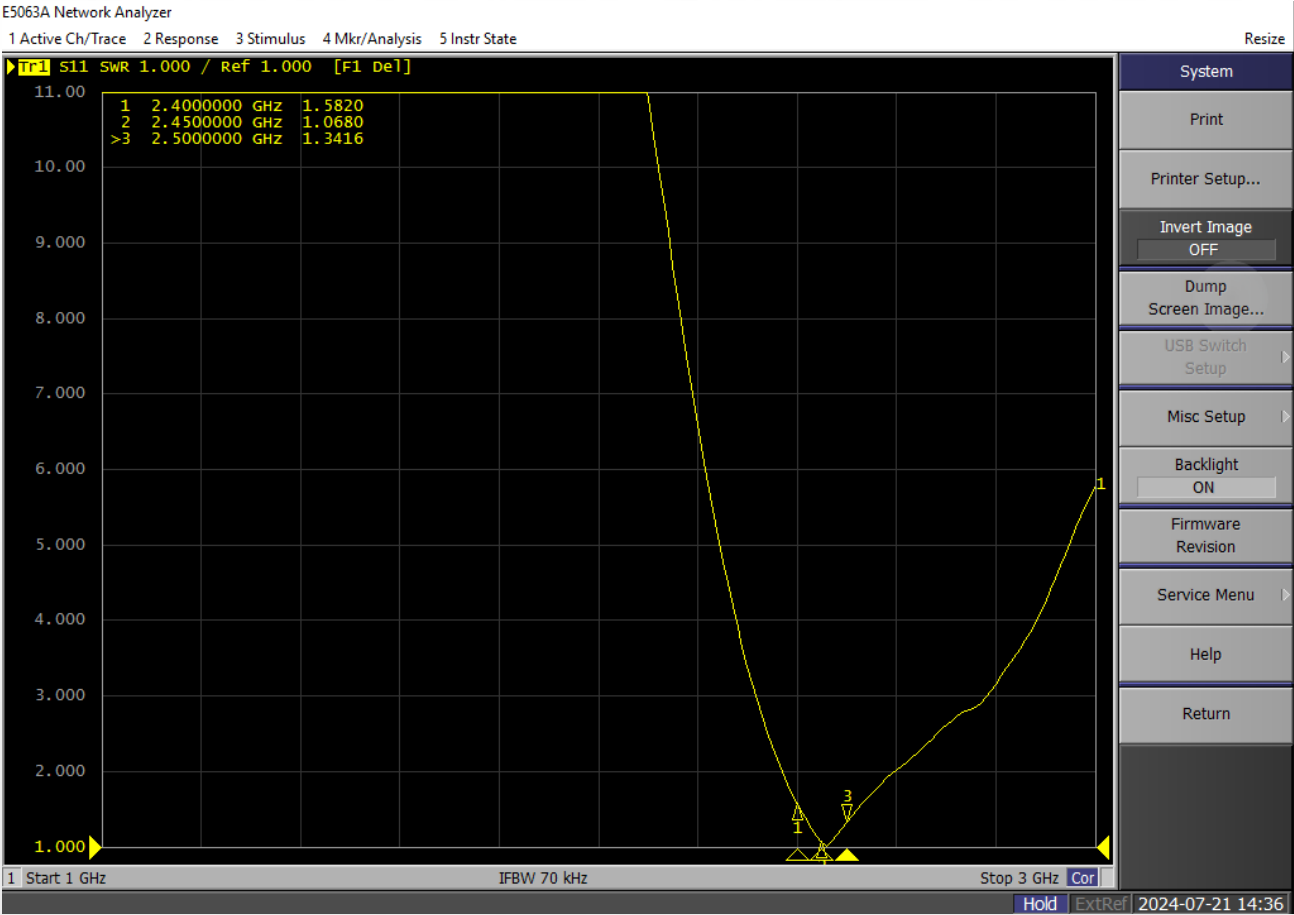
Antenna size :18.87mm\*6.6mm

Antenna supplier: Shenzhen Swetz Sound Technology Co.,Limited

Company address: No.19, Jianlong Street, Baoan Community, Yuanshan, Longgang District, Shenzhen, Guangdong, China

# II. Test Result

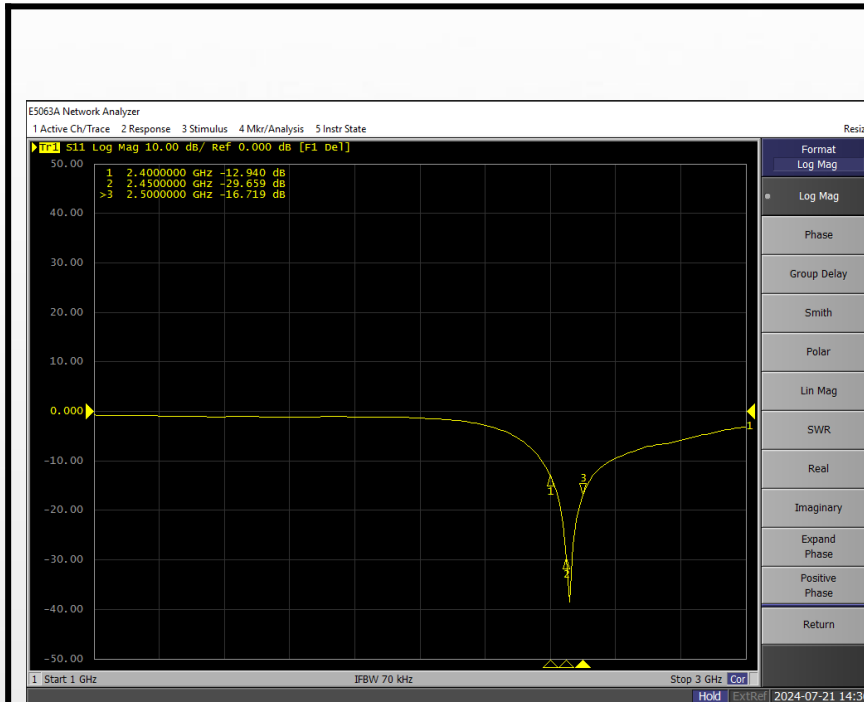
## 2.1 Antenna VSWR



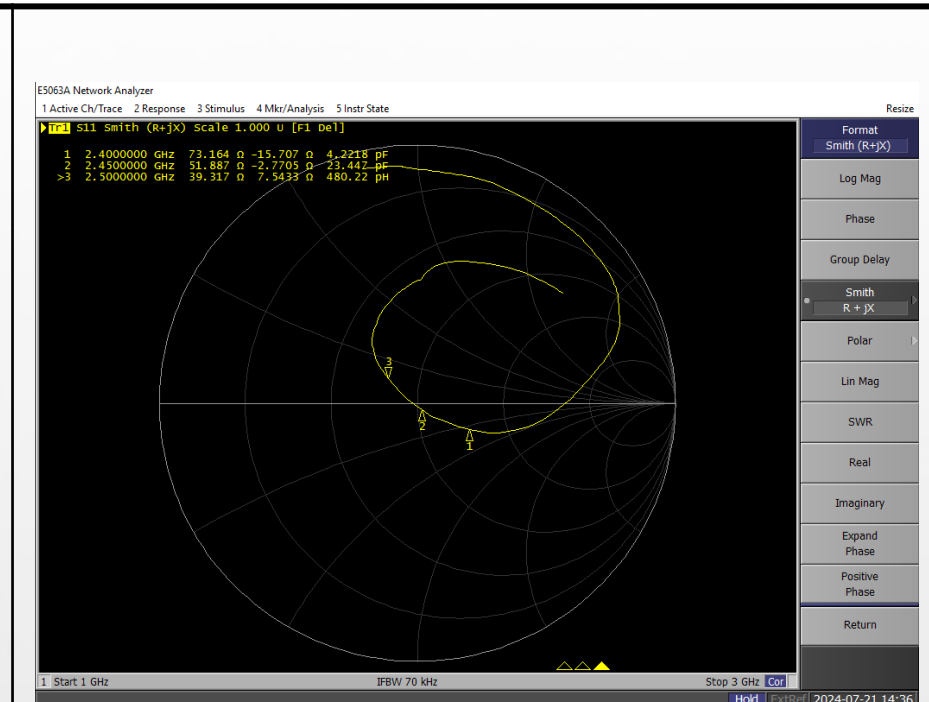
| Frequency (MHz) | 2400 | 2450 | 2500 |
|-----------------|------|------|------|
| VSWR            | 1.24 | 1.01 | 1.18 |

# II. Test Result

## 2.1. Antenna S-Parameter



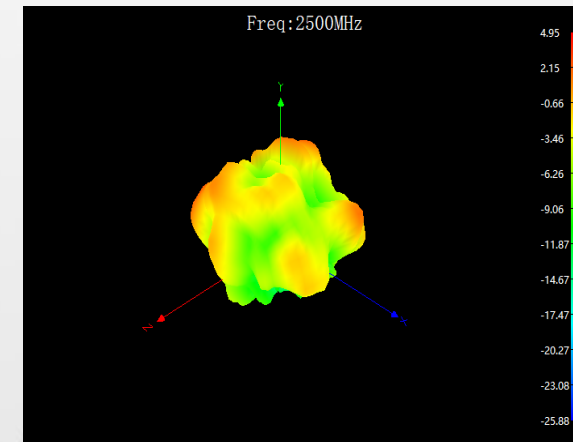
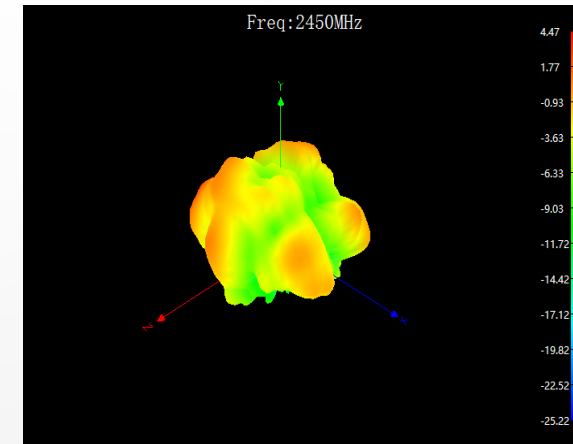
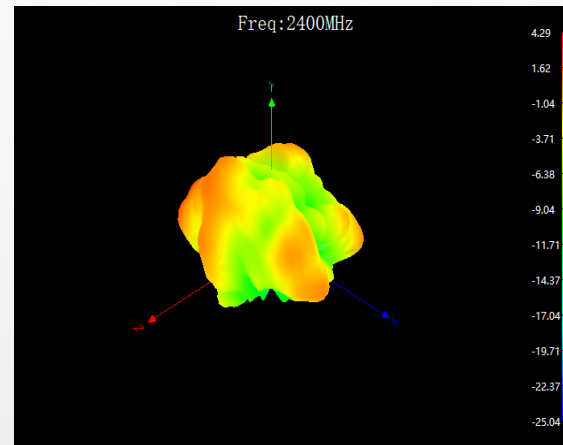
Return loss



Smith-Chart

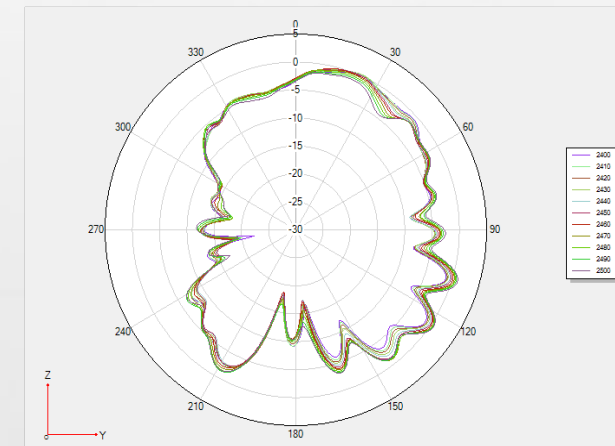
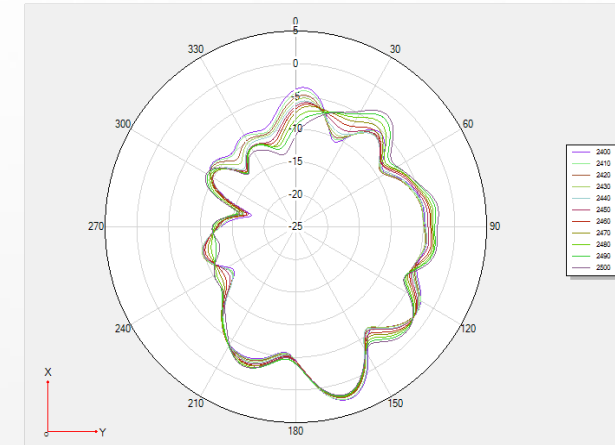
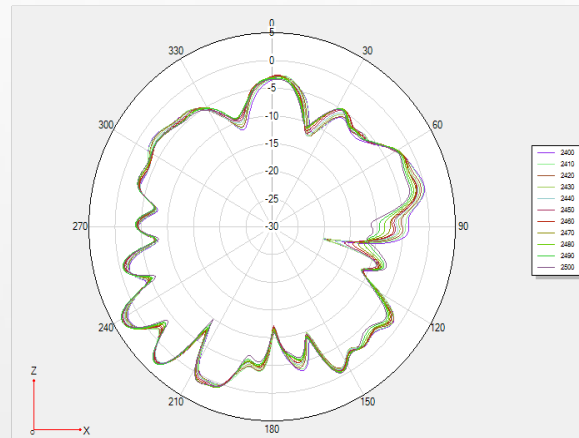
# II. Test Result

## 2.2 3D Gain Pattern





## 2.2 2D Gain Pattern



### 2.3 Efficiency And Peak Gain

| Frequency<br>(MHz) | Efficiency<br>(%) | Peak Gain<br>(dBi) |
|--------------------|-------------------|--------------------|
| 2400               | 38.55             | 4.29               |
| 2420               | 38.87             | 4.26               |
| 2440               | 39.17             | 4.31               |
| 2450               | 40.36             | 4.47               |
| 2460               | 39.72             | 4.7                |
| 2480               | 39.36             | 4.9                |
| 2500               | 39.08             | 4.95               |





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