

# 深圳市亿圣邦科技有限公司

## Shenzhen Yishengbang Technology Co., Ltd Antenna Test Report

Customer: 亿莱顿

Project: WA2183

Product: WIFI Antenna

Report date: 2024.10.26

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Checked by : 黄震

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# ***Purpose***

This report is to measure the performance of SLK for Master Antenna on亿莱顿. All measure data are showed below.

## ***Content***

1. Product Overview

2. Test Result

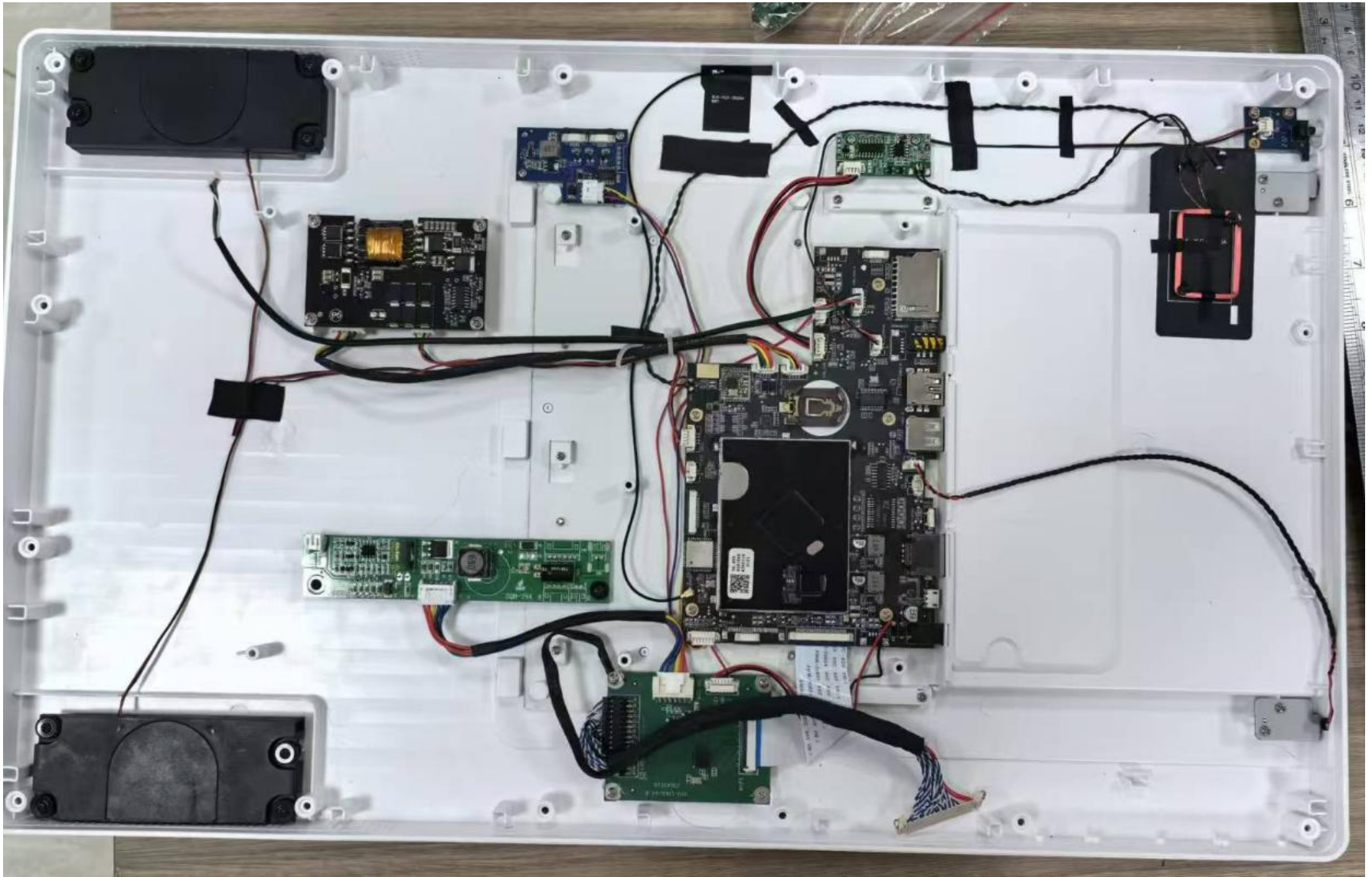
2.1 WIFI MAIN Antenna VSWR

2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

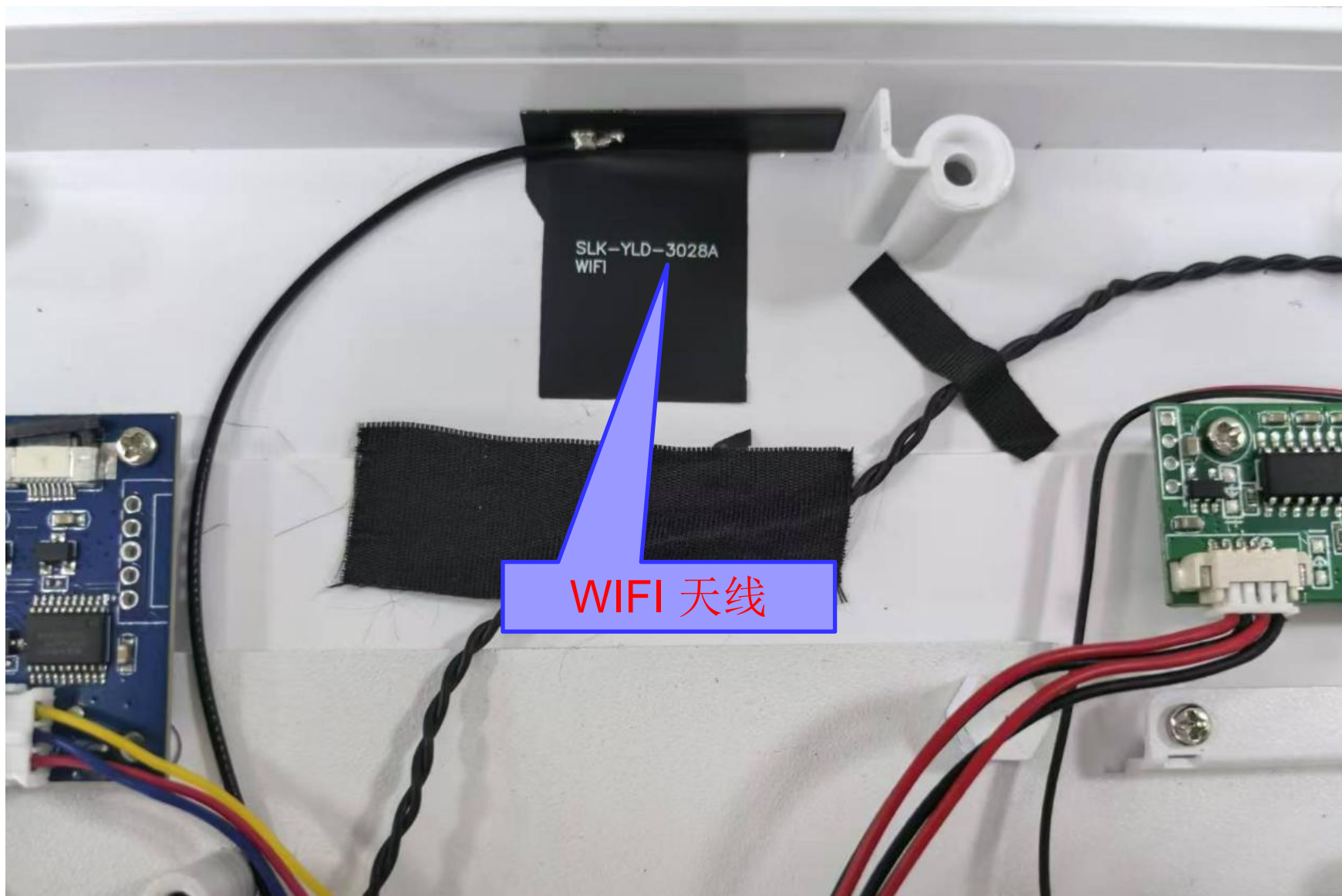
2.3 WIFI active tes

3. Conclusions

# 1. Product Overview

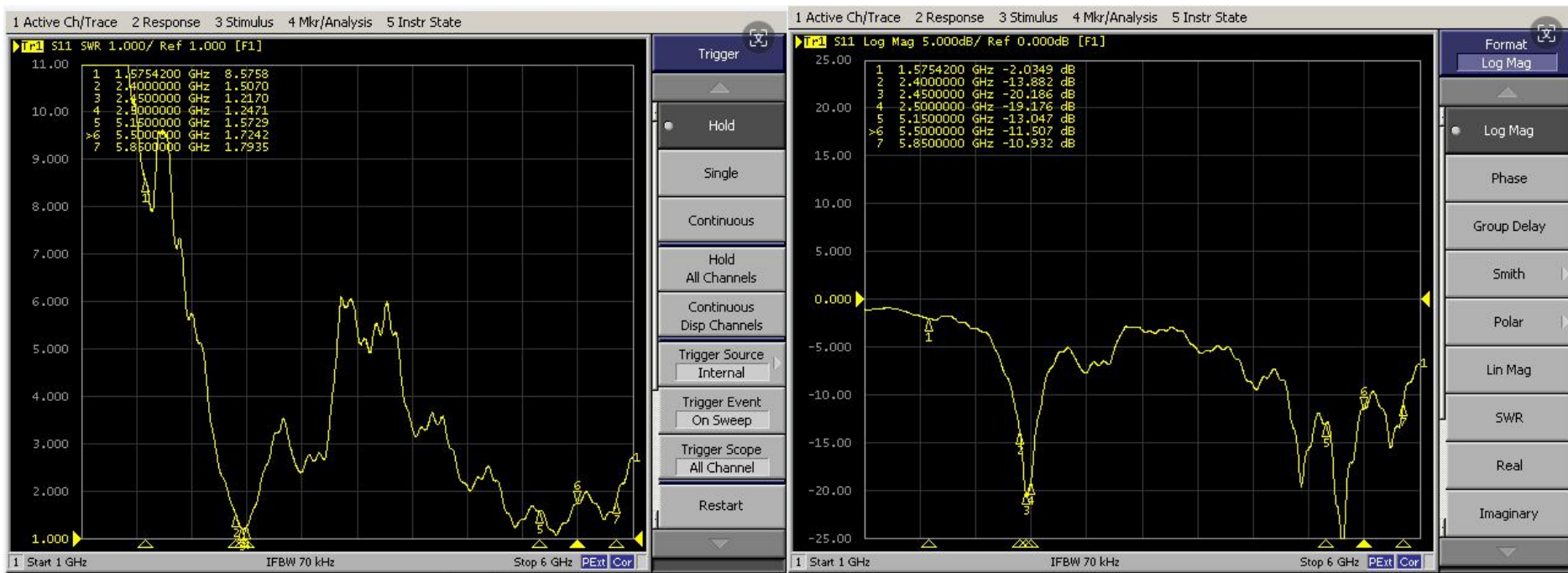


# 1. Product Overview



## 2. Test Result

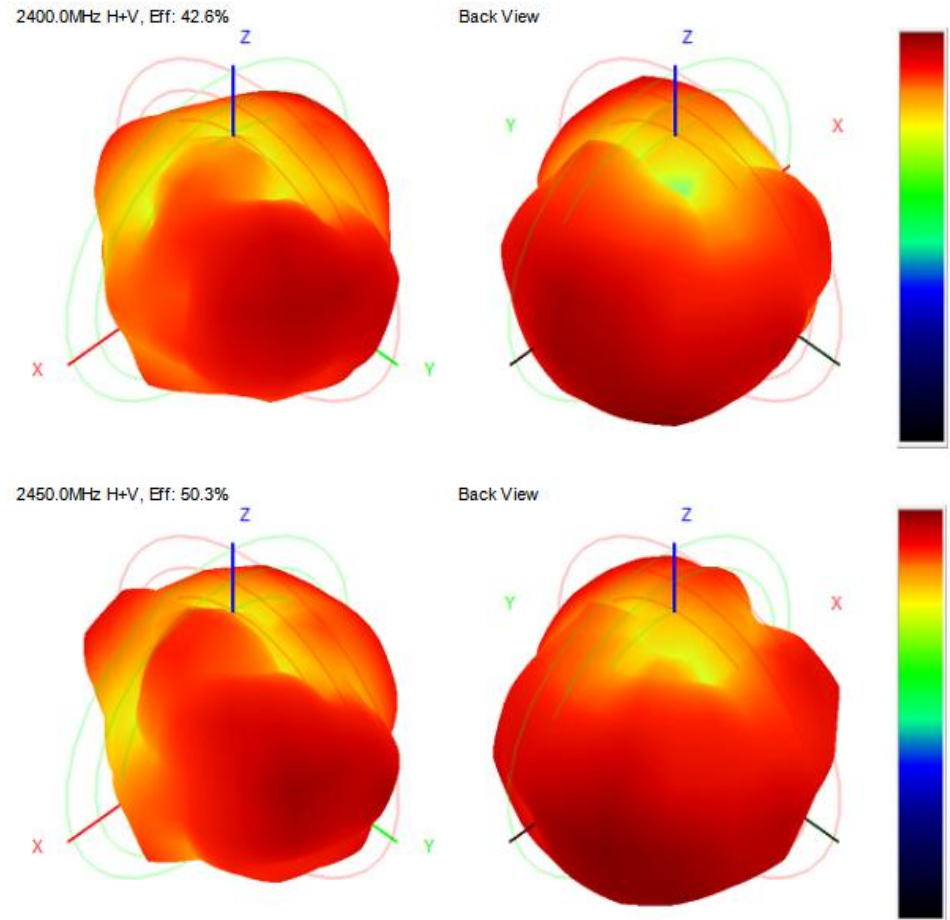
### 2.1 WIFI MAIN Antenna VSWR/S11



## 2. Test Result

### 2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

| Frequency (MHz) | Efficiency (dBi) | Gain (dBi) | Efficiency (%) |
|-----------------|------------------|------------|----------------|
| 2400            | -3.70            | 1.43       | 42.63          |
| 2410            | -3.47            | 1.65       | 45.01          |
| 2420            | -2.85            | 1.45       | 51.87          |
| 2430            | -2.95            | 1.09       | 50.72          |
| 2440            | -2.85            | 1.15       | 51.85          |
| 2450            | -2.98            | 1.83       | 50.31          |
| 2460            | -2.74            | 1.18       | 53.17          |
| 2470            | -3.12            | 1.24       | 48.72          |
| 2480            | -3.17            | 1.45       | 48.20          |
| 2490            | -2.92            | 1.86       | 51.03          |
| 2500            | -3.03            | 1.78       | 49.75          |
| 5150            | -3.50            | 2.97       | 44.66          |
| 5250            | -3.63            | 2.99       | 43.36          |
| 5350            | -3.48            | 2.75       | 44.85          |
| 5450            | -3.31            | 2.68       | 46.61          |
| 5550            | -3.94            | 2.51       | 40.37          |
| 5650            | -3.71            | 2.56       | 42.53          |
| 5750            | -3.84            | 1.96       | 41.30          |
| 5850            | -4.28            | 1.13       | 37.30          |

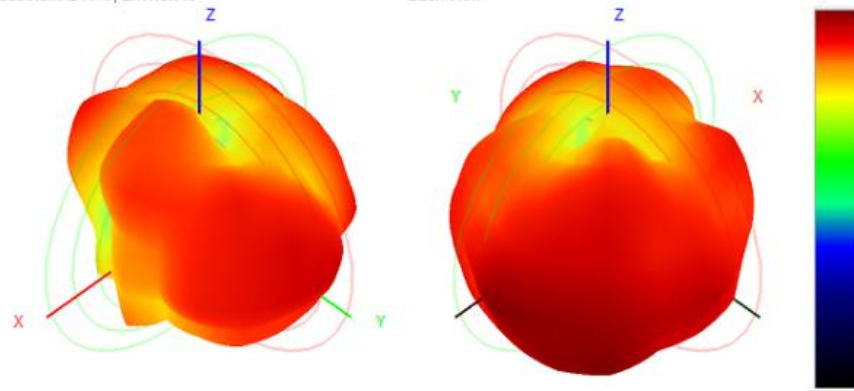


## 2. Test Result

### 2.2 WIFI MAIN Antenna Gain/Efficiency/3D DATA

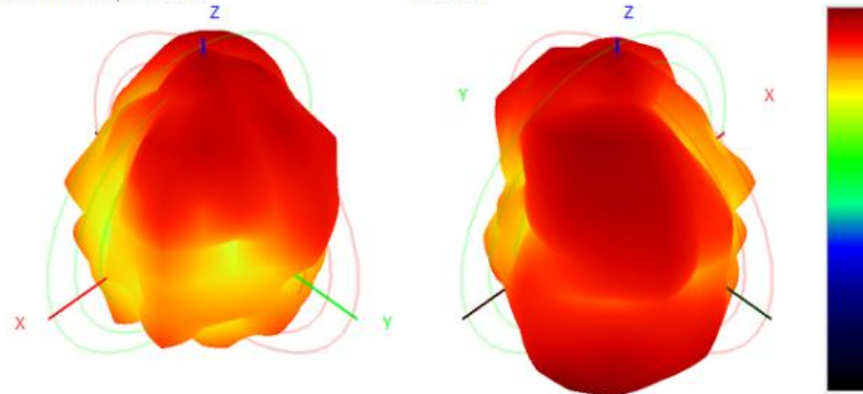
2500.0MHz H+V, Eff: 49.7%

Back View



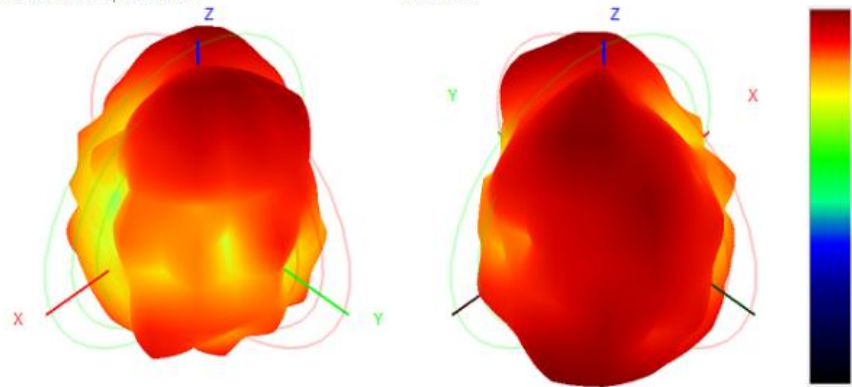
5150.0MHz H+V, Eff: 44.7%

Back View



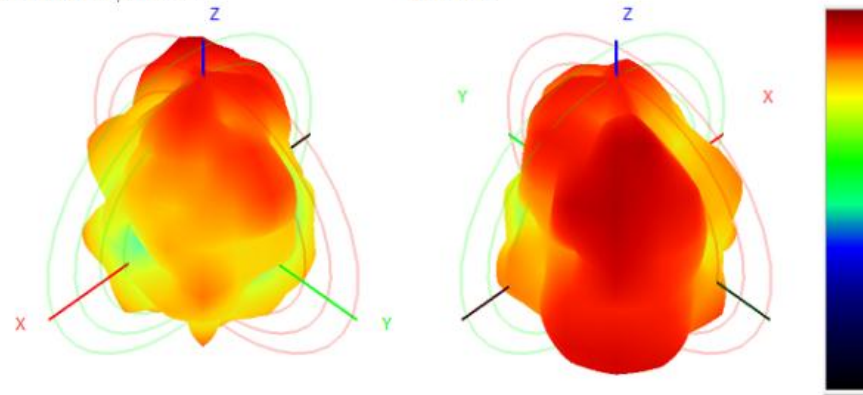
5450.0MHz H+V, Eff: 46.6%

Back View



5850.0MHz H+V, Eff: 37.3%

Back View



## 2. Test Result

### 2.3 WIFI active test

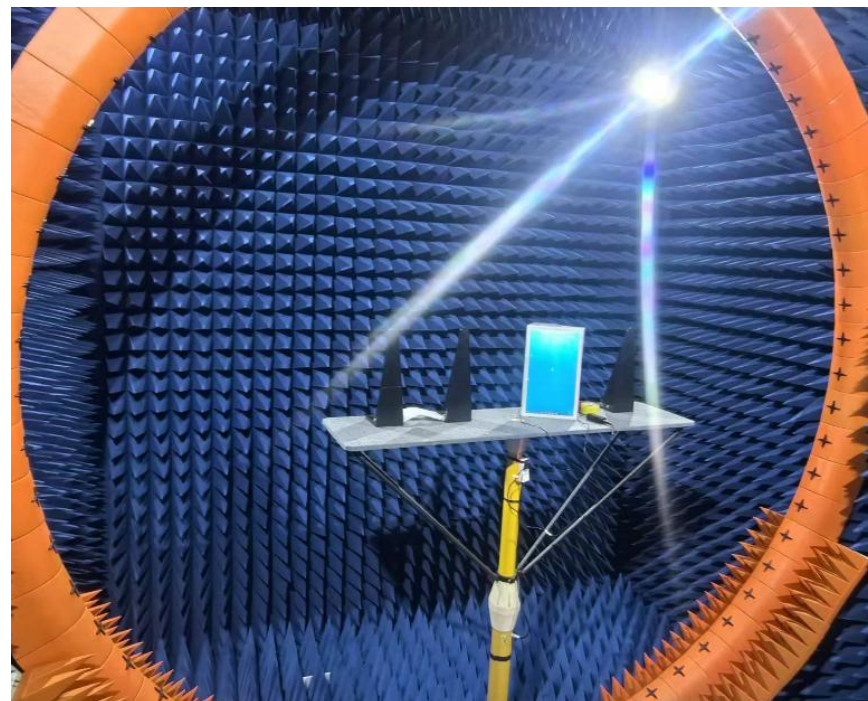
| WIFI有源测试     |        |        |        |
|--------------|--------|--------|--------|
| 频段           | 1      | 6      | 11     |
| B-TRP-11MBps | 12.46  | 12.93  | 13.29  |
| B-TIS-11MBps | -79.58 | -80    | -79.81 |
| G-TRP-54MBps | 11.16  | 11.63  | 11.48  |
| G-TIS-54MBps | -69.16 | -69.02 | -69.00 |
| N-TRP-MCS7   | 11.27  | 11.25  | 11.06  |
| N-TIS-MCS7   | -64.90 | -65.44 | -65.16 |
| 频段           | 36     | 149    | 165    |
| A-TRP-54MBps | 11.96  | 12.06  | 12.31  |
| A-TIS-54MBps | -70.84 | -70.69 | -71.97 |

## 2. Test Result

### 2.3 WIFI active test

| WIFI有源测试     |        |        |        |
|--------------|--------|--------|--------|
| 频段           | 1      | 6      | 11     |
| B-TRP-11Mbps | 12.38  | 12.06  | 12.93  |
| B-TIS-11Mbps | -79.08 | -79.53 | -79.94 |
| G-TRP-54Mbps | 11.22  | 11.50  | 11.65  |
| G-TIS-54Mbps | -69.92 | -69.16 | -69.28 |
| N-TRP-MCS7   | 11.15  | 11.17  | 11.59  |
| N-TIS-MCS7   | -65.89 | -65.75 | -65.13 |
| 频段           | 36     | 149    | 165    |
| A-TRP-54Mbps | 11.57  | 12.89  | 12.31  |
| A-TIS-54Mbps | -69.34 | -70.72 | -69.44 |

### 机器竖立测试



### 3. Conclusions

谢谢！