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# 深圳市亿圣邦科技有限公司

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

Customer:卓创

Project: 1065G7

Product: WIFI

Report date: 2024-05-23

Prepared by :刘顺

Checked by : 黄震

Approved by : 林美财

# ***Purpose***

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

## ***Content***

1. Product Overview

2. Test Result

2.1 WIFI MAIN/AUX Antenna VSWR

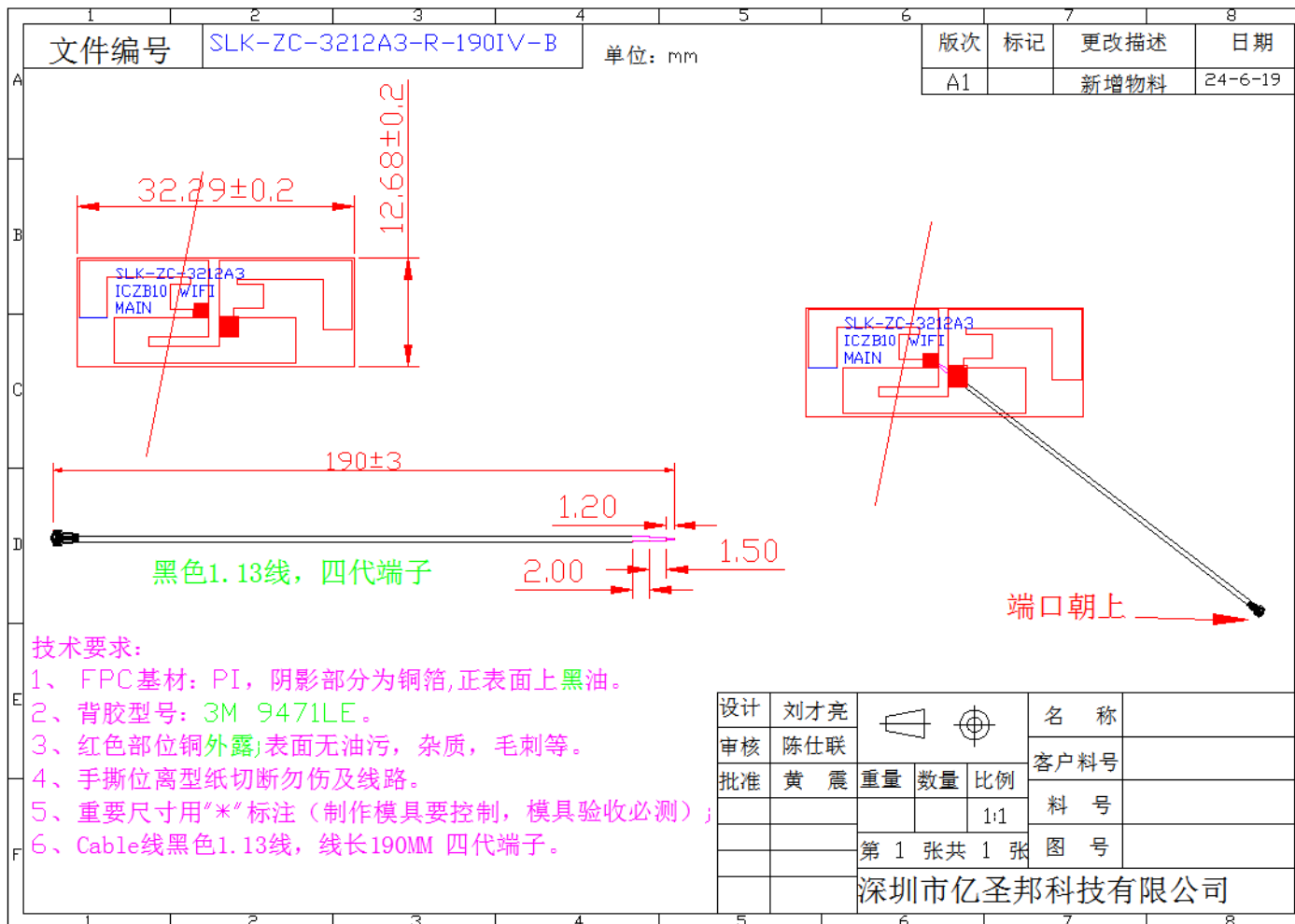
2.2 Antenna Parameters

2.3 WIFI MAIN/AUX Antenna Gain/Efficiency/3D DATA

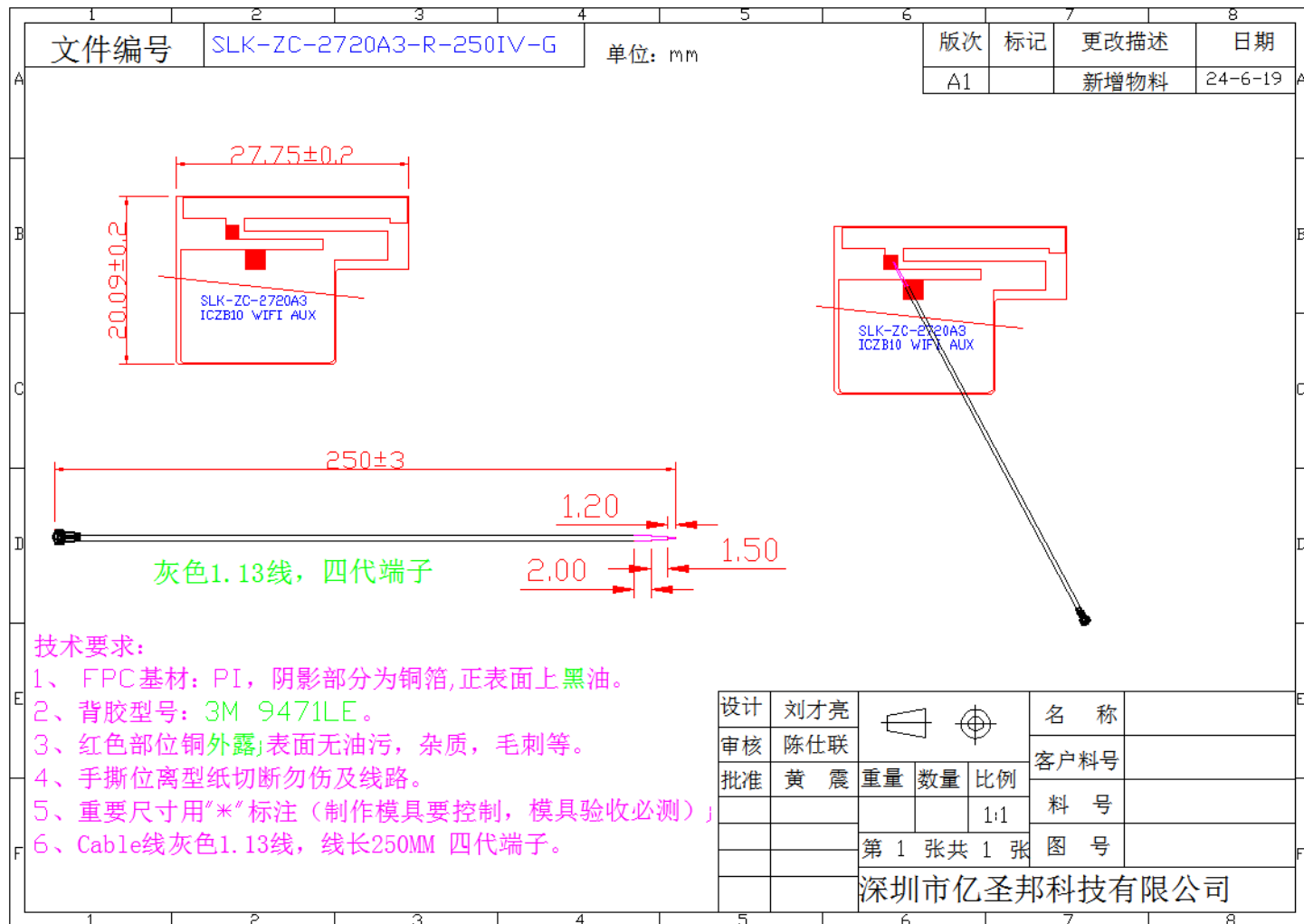
2.4 WIFI throughput test

3. Conclusions

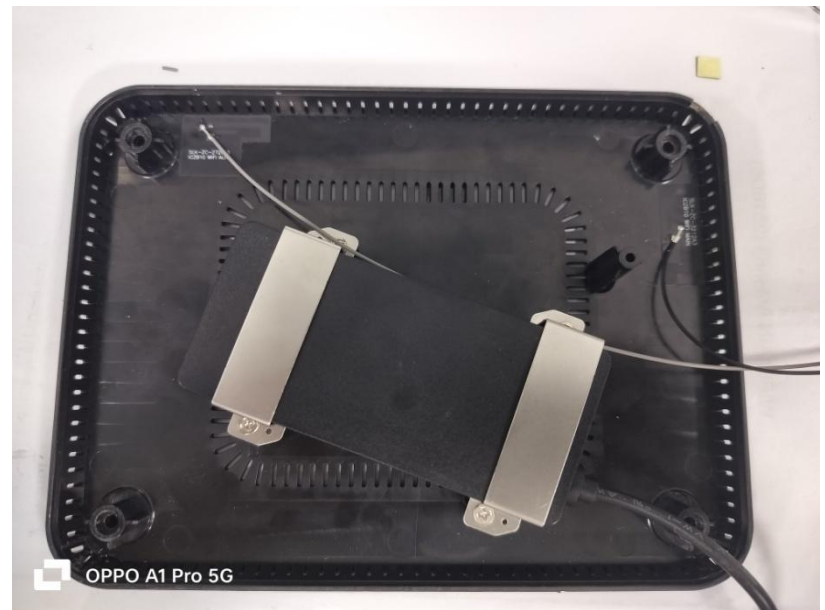
# 1. Product Overview



# 1. Product Overview

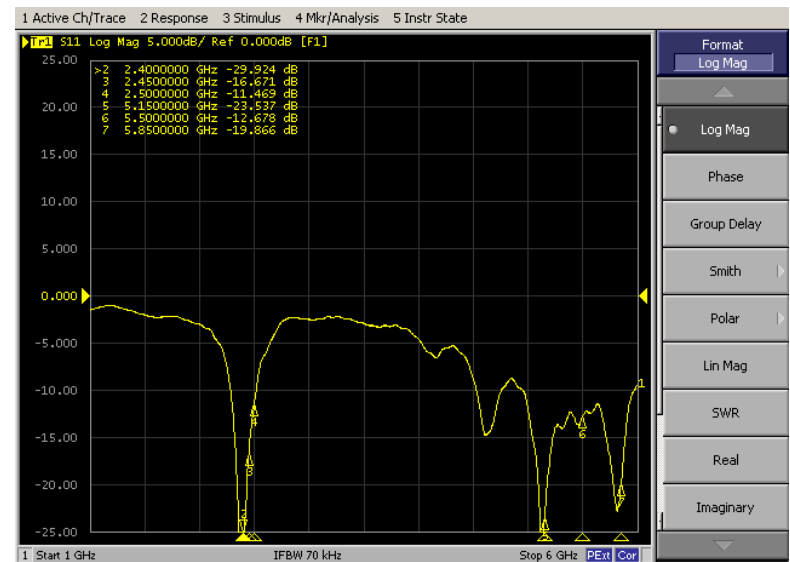
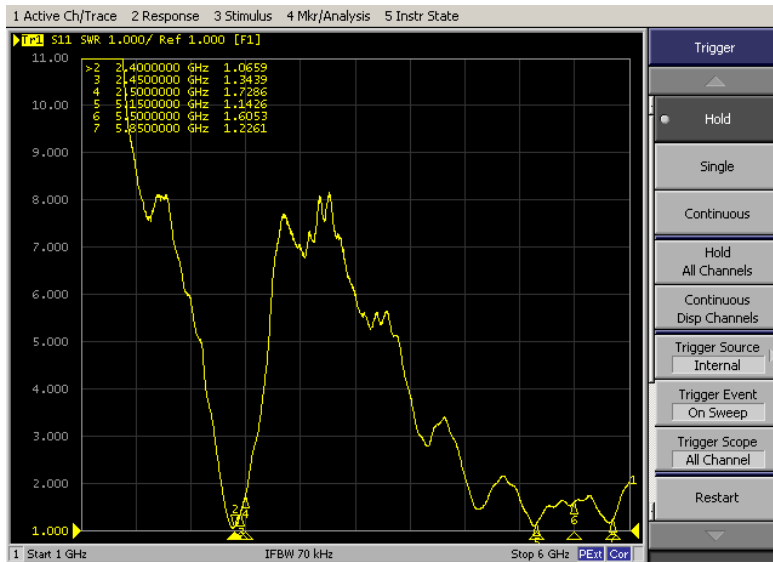


# 1. Product Overview



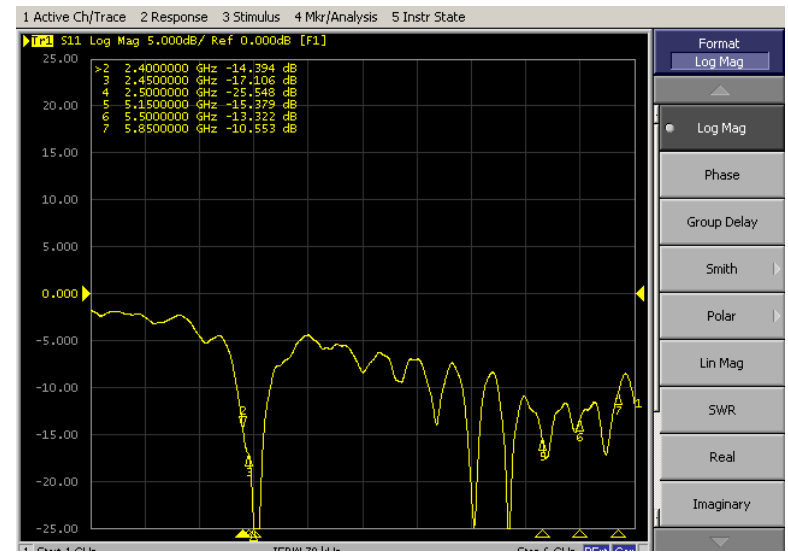
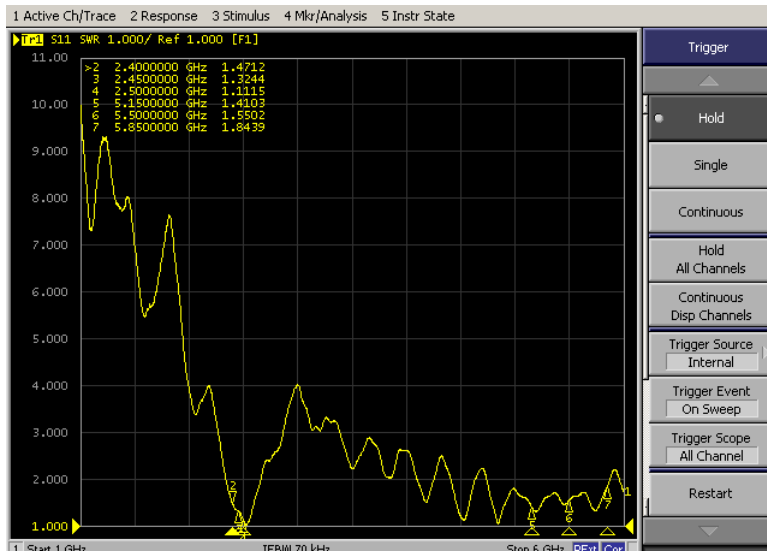
# 2. Test Result

## 2.1 WIFI MAIN Antenna VSWR



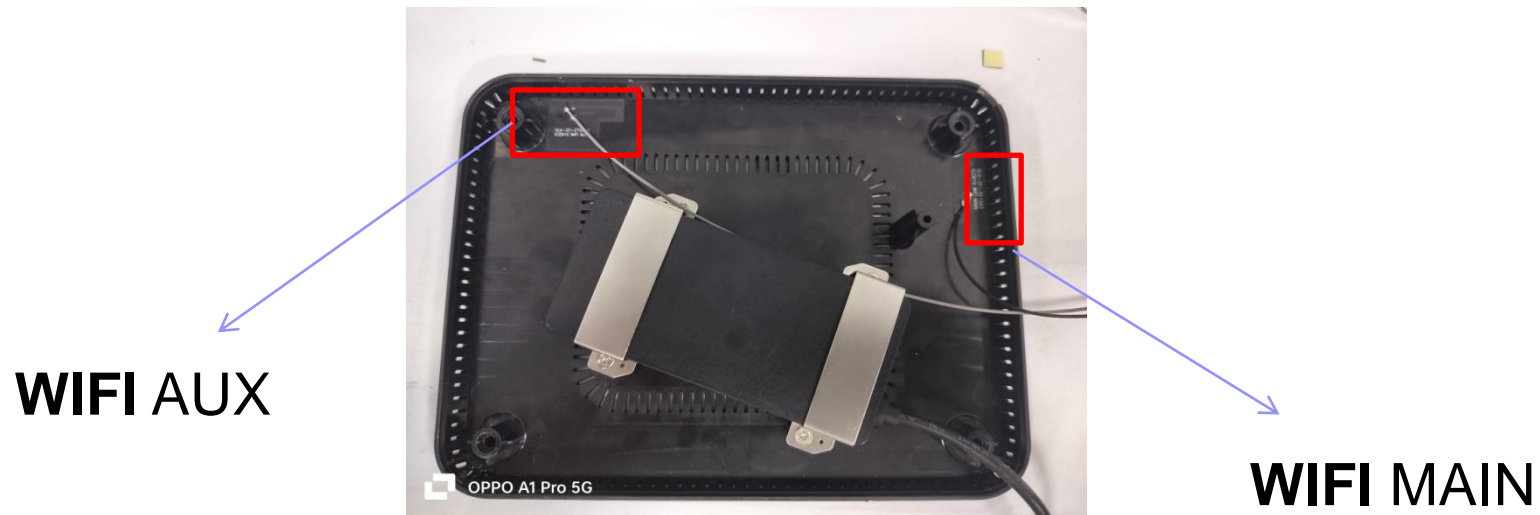
# 2. Test Result

## 2.1 WIFI AUX Antenna VSWR



## 2. Test Result

### 2.2 Antenna Parameters

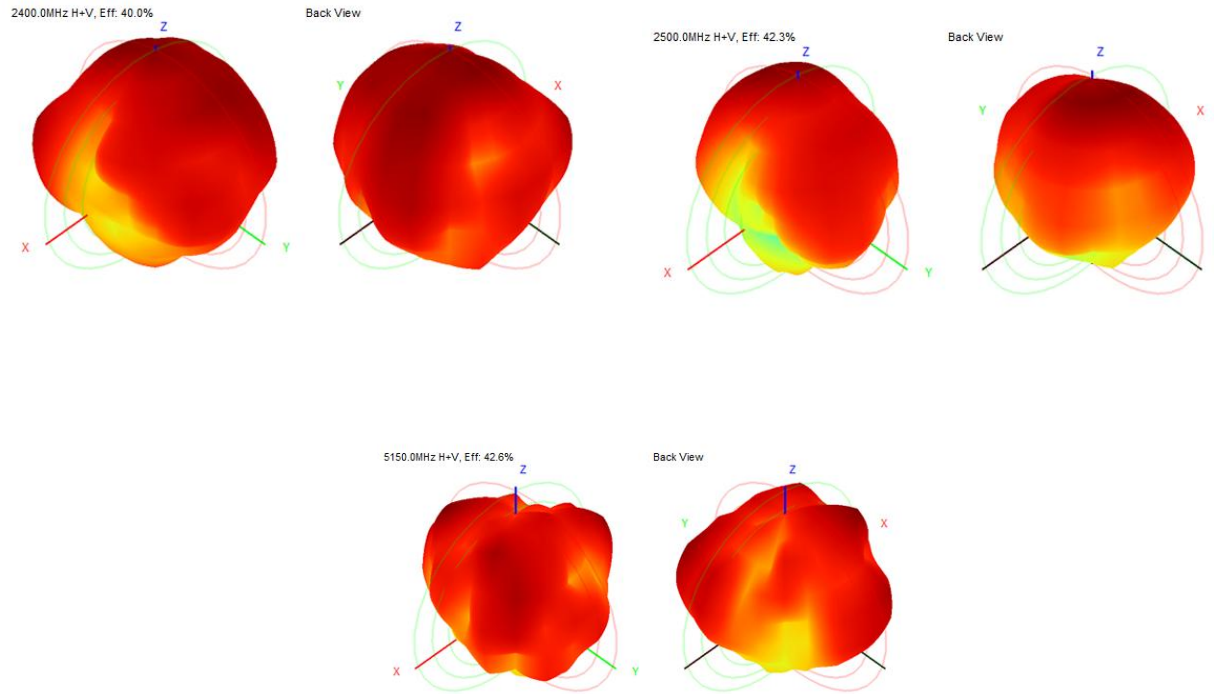




# 2. Test Result

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

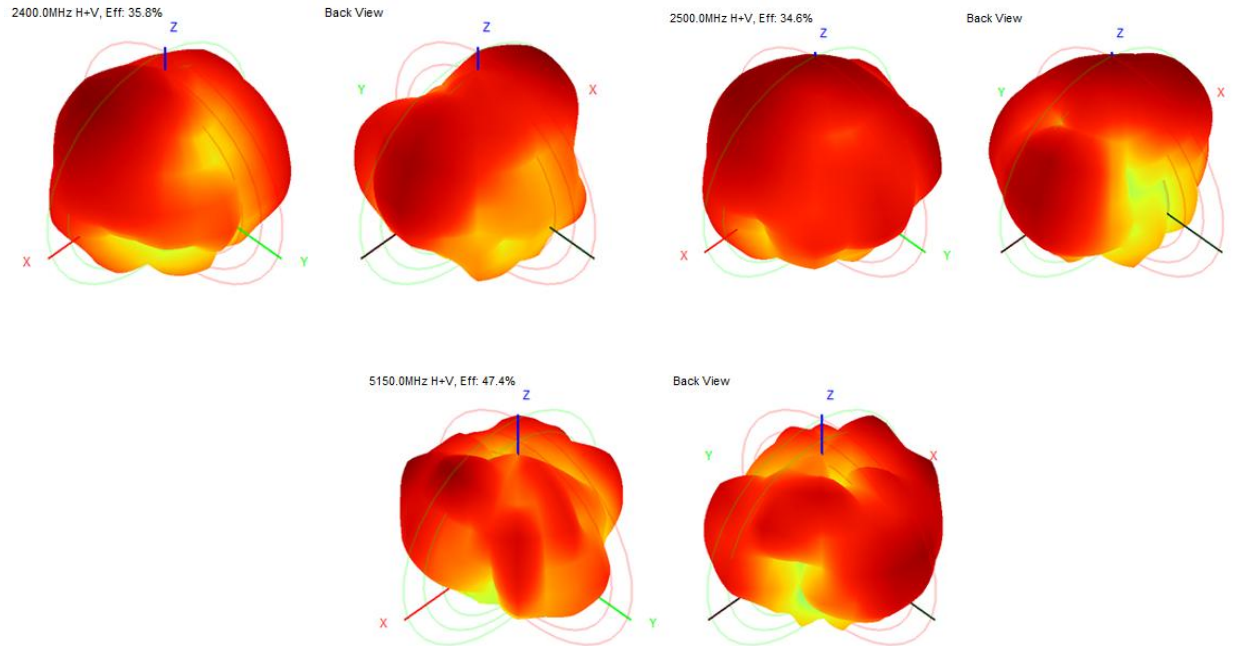
| Frequency (MHz) | Efficiency (dBi) | Gain (dBi) | Efficiency (%) |
|-----------------|------------------|------------|----------------|
| 2400            | -3.97            | 1.58       | 40.02          |
| 2410            | -3.95            | 1.11       | 40.21          |
| 2420            | -3.85            | 1.86       | 41.18          |
| 2430            | -3.86            | 1.22       | 41.03          |
| 2440            | -3.84            | 1.71       | 41.28          |
| 2450            | -3.89            | 1.00       | 40.79          |
| 2460            | -3.68            | 1.34       | 42.85          |
| 2470            | -3.87            | 1.44       | 40.93          |
| 2480            | -3.94            | 1.51       | 40.36          |
| 2490            | -3.89            | 1.63       | 40.82          |
| 2500            | -3.73            | 1.03       | 42.30          |
| 5150            | -3.70            | 1.15       | 42.60          |
| 5250            | -3.67            | 1.76       | 42.92          |
| 5450            | -3.49            | 1.95       | 44.68          |
| 5850            | -3.50            | 1.96       | 44.60          |



# 2. Test Result

## 2.3 WIFI AUX Antenna Gain/Efficiency/3D DATA

| Frequency (MHz) | Efficiency (dBi) | Gain (dBi) | Efficiency (%) |
|-----------------|------------------|------------|----------------|
| 2400            | -4.46            | 1.74       | 35.78          |
| 2410            | -4.45            | 1.99       | 35.85          |
| 2420            | -4.28            | 1.73       | 37.29          |
| 2430            | -4.47            | 1.53       | 35.67          |
| 2440            | -4.17            | 1.95       | 38.24          |
| 2450            | -4.41            | 1.71       | 36.20          |
| 2460            | -4.33            | 1.69       | 36.90          |
| 2470            | -4.59            | 1.34       | 34.70          |
| 2480            | -4.63            | 1.96       | 34.36          |
| 2490            | -4.47            | 1.85       | 35.68          |
| 2500            | -4.61            | 1.86       | 34.58          |
| 5150            | -3.24            | 1.94       | 47.38          |
| 5250            | -3.21            | 1.21       | 47.72          |
| 5450            | -3.16            | 1.36       | 48.29          |
| 5850            | -3.04            | 1.40       | 49.56          |



## 2. Test Result

### 2.4 WIFI throughput test

```
C:\Windows\System32\cmd.exe
iperf-3.1.3-win64
C:\iperf-3.1.3-win64>
6] 28.00-29.00 sec 4.88 MBytes 40.9 Mbits/sec
8] 28.00-29.00 sec 5.00 MBytes 41.9 Mbits/sec
10] 28.00-29.00 sec 4.75 MBytes 39.8 Mbits/sec
12] 28.00-29.00 sec 4.55 MBytes 38.1 Mbits/sec
[SUM] 28.00-29.00 sec 24.3 MBytes 204 Mbits/sec
-----
4] 29.00-30.00 sec 5.12 MBytes 43.0 Mbits/sec
6] 29.00-30.00 sec 5.00 MBytes 41.9 Mbits/sec
8] 29.00-30.00 sec 4.88 MBytes 40.9 Mbits/sec
10] 29.00-30.00 sec 4.88 MBytes 40.9 Mbits/sec
12] 29.00-30.00 sec 4.70 MBytes 39.4 Mbits/sec
[SUM] 29.00-30.00 sec 24.6 MBytes 206 Mbits/sec
-----
ID] Interval      Transfer      Bandwidth
4] 0.00-30.00 sec 150 MBytes 44.1 Mbits/sec
4] 0.00-30.00 sec 150 MBytes 44.1 Mbits/sec
6] 0.00-30.00 sec 153 MBytes 42.9 Mbits/sec
6] 0.00-30.00 sec 153 MBytes 42.8 Mbits/sec
8] 0.00-30.00 sec 150 MBytes 41.9 Mbits/sec
8] 0.00-30.00 sec 150 MBytes 41.9 Mbits/sec
8] 0.00-30.00 sec 145 MBytes 40.6 Mbits/sec
10] 0.00-30.00 sec 145 MBytes 40.6 Mbits/sec
12] 0.00-30.00 sec 139 MBytes 38.8 Mbits/sec
12] 0.00-30.00 sec 139 MBytes 38.8 Mbits/sec
[SUM] 0.00-30.00 sec 745 MBytes 208 Mbits/sec
[SUM] 0.00-30.00 sec 745 MBytes 208 Mbits/sec
iperf Done.
C:\iperf-3.1.3-win64>
```

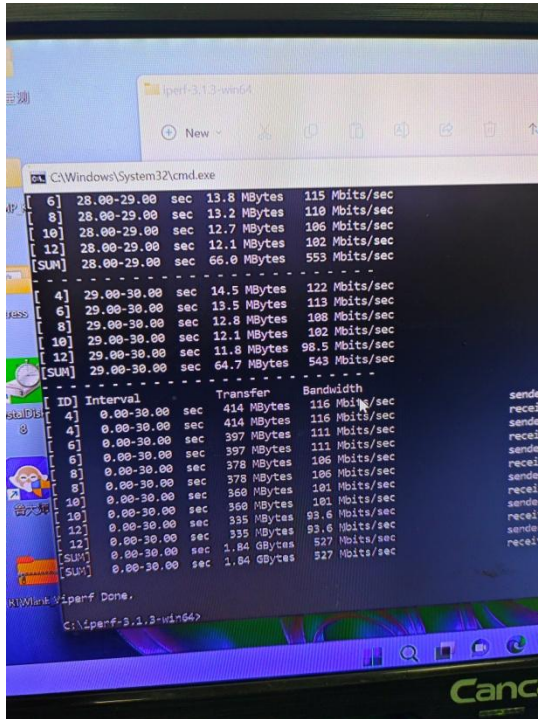
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```
iperf-3.1.3-win64
C:\Windows\System32\cmd.exe
iperf-3.1.3-win64
C:\iperf-3.1.3-win64>
4] 8.00-9.00 sec 13.4 MBytes 112 Mbits/sec
4] 9.00-10.01 sec 12.4 MBytes 103 Mbits/sec
4] 10.01-11.01 sec 12.4 MBytes 104 Mbits/sec
4] 11.01-12.00 sec 13.2 MBytes 112 Mbits/sec
4] 12.00-13.01 sec 14.0 MBytes 116 Mbits/sec
4] 13.01-14.01 sec 11.1 MBytes 93.7 Mbits/sec
4] 14.01-15.01 sec 11.2 MBytes 94.5 Mbits/sec
4] 15.01-16.01 sec 11.6 MBytes 97.3 Mbits/sec
4] 16.01-17.01 sec 12.0 MBytes 101 Mbits/sec
4] 17.01-18.01 sec 12.2 MBytes 102 Mbits/sec
4] 18.01-19.00 sec 11.2 MBytes 95.4 Mbits/sec
4] 19.00-20.00 sec 12.6 MBytes 106 Mbits/sec
4] 20.00-21.01 sec 13.6 MBytes 113 Mbits/sec
4] 21.01-22.01 sec 12.0 MBytes 101 Mbits/sec
4] 22.01-23.01 sec 9.75 MBytes 81.5 Mbits/sec
4] 23.01-24.00 sec 10.2 MBytes 86.8 Mbits/sec
4] 24.00-25.00 sec 10.9 MBytes 91.0 Mbits/sec
4] 25.00-26.00 sec 11.4 MBytes 95.6 Mbits/sec
4] 26.00-27.01 sec 11.5 MBytes 95.8 Mbits/sec
4] 27.01-28.01 sec 12.4 MBytes 104 Mbits/sec
4] 28.01-29.02 sec 12.5 MBytes 104 Mbits/sec
4] 29.02-30.01 sec 14.8 MBytes 123 Mbits/sec
-----
ID] Interval      Transfer      Bandwidth
4] 0.00-30.01 sec 363 MBytes 102 Mbits/sec
4] 0.00-30.01 sec 363 MBytes 102 Mbits/sec
iperf Done.
C:\iperf-3.1.3-win64>
```

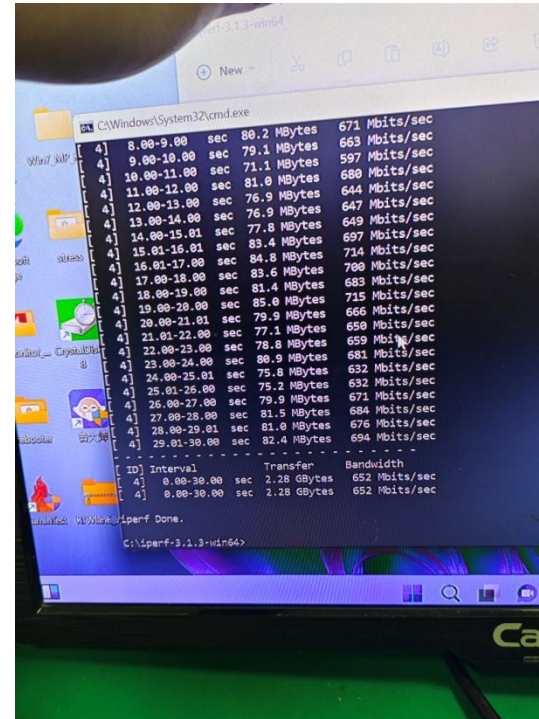
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# 2. Test Result

## 2.4 WIFI throughput test



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# 3. Conclusions

谢谢!