

深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd Antenna Specifications

ADD:101, Building C, Qianwan Hard Technology Industrial Park, Nanchang Community,
Xixiang Street, Baoan District, Shenzhen, China
Customer: 卓创

Project: ARB17M2

WIFI 1: SLK-ZC-2520A3-R-100IV-B

WIFI 2: SLK-ZC-2520A4-L-100IV-G

Product: WIFI Antenna—FPC

Report date: 2024.11.19

Prepared by : 范新竹

Checked by : Eason Huang

Approved by :

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 VSWR/S11

2.2 Antenna Parameters

2.3 WIFI Antenna Gain/Efficiency/3D DATA

2.4 WIFI Antenna Throughput

3. Conclusions

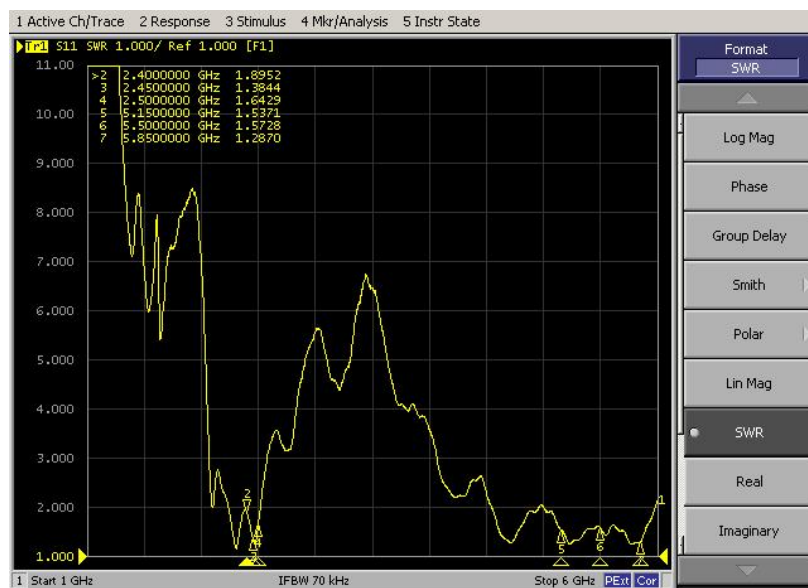
1. Product Overview



2. Test Result

2.1 VSWR/S11

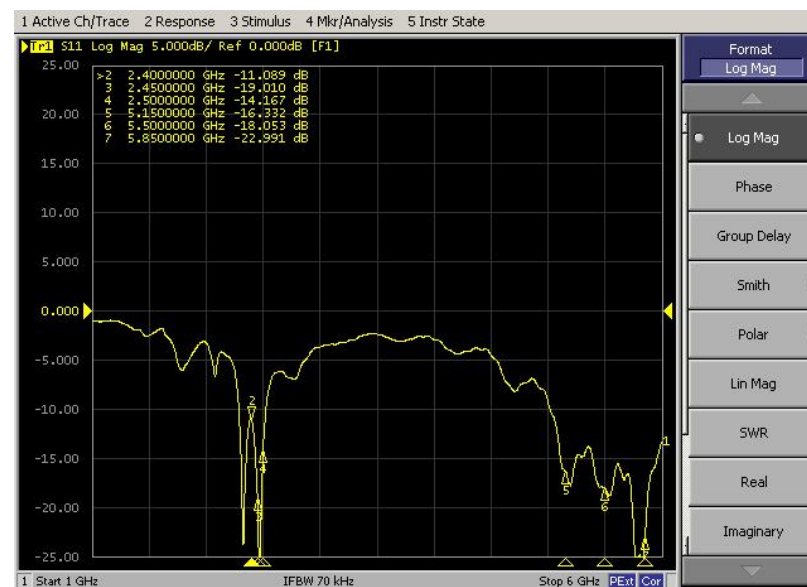
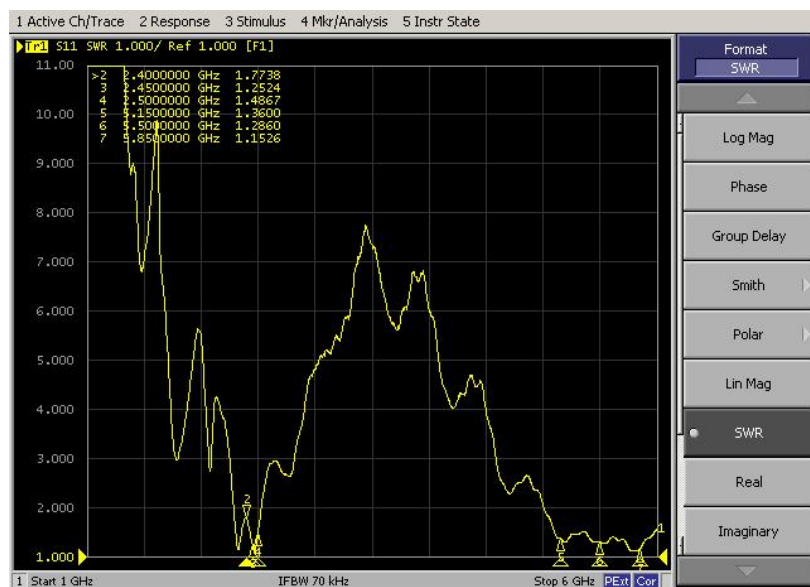
WIFI 1



2. Test Result

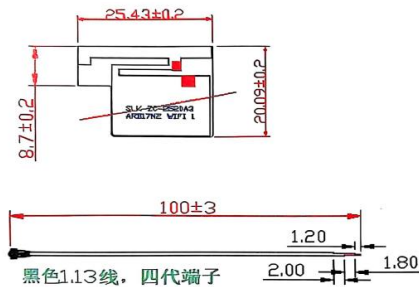
2.1 VSWR/S11

WIFI 2

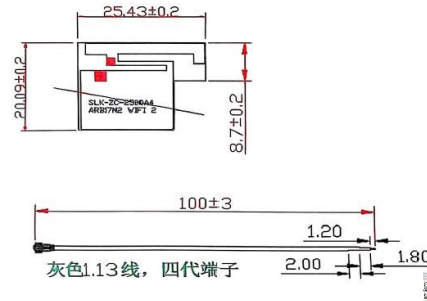


2. Test Result

2.2 Antenna Size



WIFI 1



WIFI 2

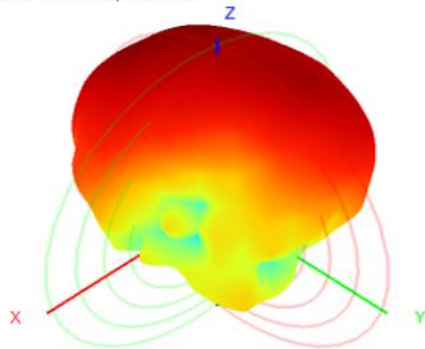
2. Test Result

2.3 WIFI Antenna Gain/Efficiency/3D DATA

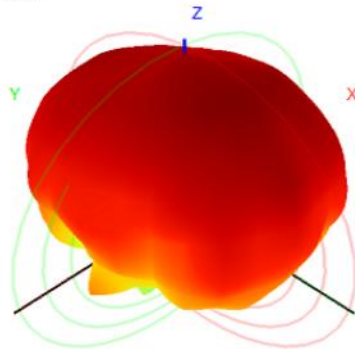
WIFI 1

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5350.0	5500.0	5650.0	5850.0
Efficiency (dBi)	-3.30	-2.98	-2.96	-2.96	-2.86	-2.96	-2.94	-2.84	-2.78	-2.90	-2.90	-2.73	-2.74	-2.72	-2.92	-2.62
Gain (dBi)	1.65	1.83	1.82	2.11	2.50	2.73	2.52	2.31	2.41	2.09	2.01	4.58	2.16	2.86	2.49	2.38
Efficiency (%)	46.83	50.30	50.61	50.56	51.75	50.61	50.80	52.04	52.69	51.32	51.28	53.36	53.20	53.36	51.04	54.67

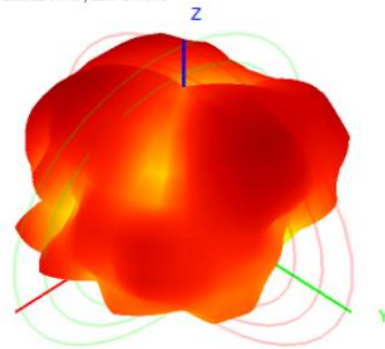
2450.0MHz H+V, Eff. 50.6%



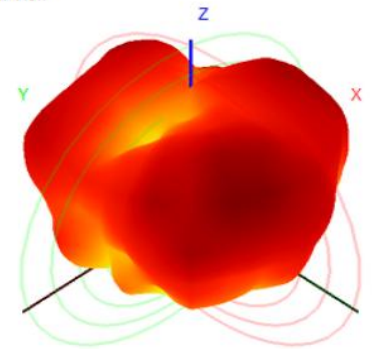
Back View



5850.0MHz H+V, Eff. 54.7%



Back View



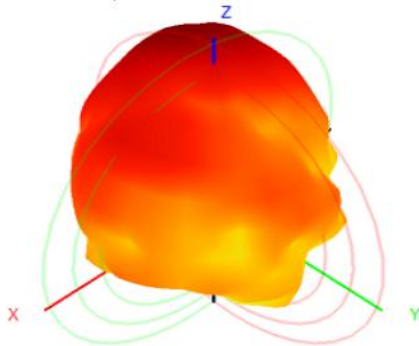
2. Test Result

2.3 WIFI Antenna Gain/Efficiency/3D DATA

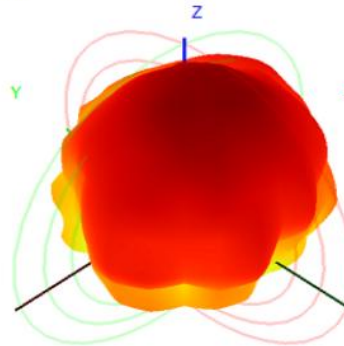
WIFI 2

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5350.0	5500.0	5650.0	5850.0
Efficiency (dBi)	-3.95	-3.78	-3.78	-3.79	-3.56	-3.51	-3.84	-3.56	-3.59	-3.66	-3.48	-2.79	-2.95	-2.88	-2.89	-2.97
Gain (dBi)	2.85	2.55	2.89	2.27	2.70	2.55	2.40	2.66	2.89	2.95	2.64	2.30	2.88	2.31	2.93	2.47
Efficiency (%)	40.20	41.81	41.81	41.77	43.97	44.55	41.26	44.01	43.73	43.04	44.81	52.50	50.62	51.41	51.38	50.36

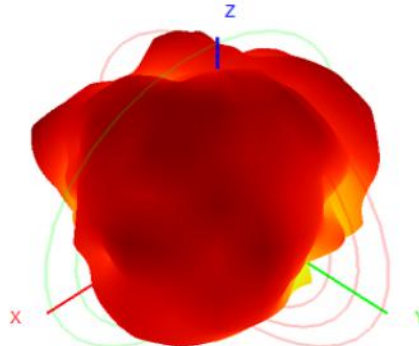
2450.0MHz H+V, Eff. 44.6%



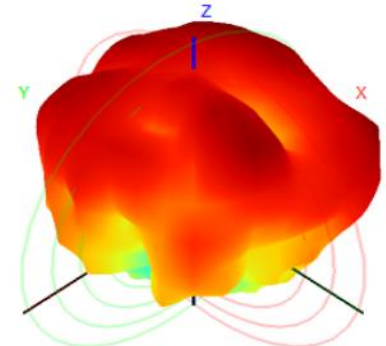
Back View



5850.0MHz H+V, Eff. 50.4%



Back View



2. Test Result

2.4 WIFI Antenna Throughput

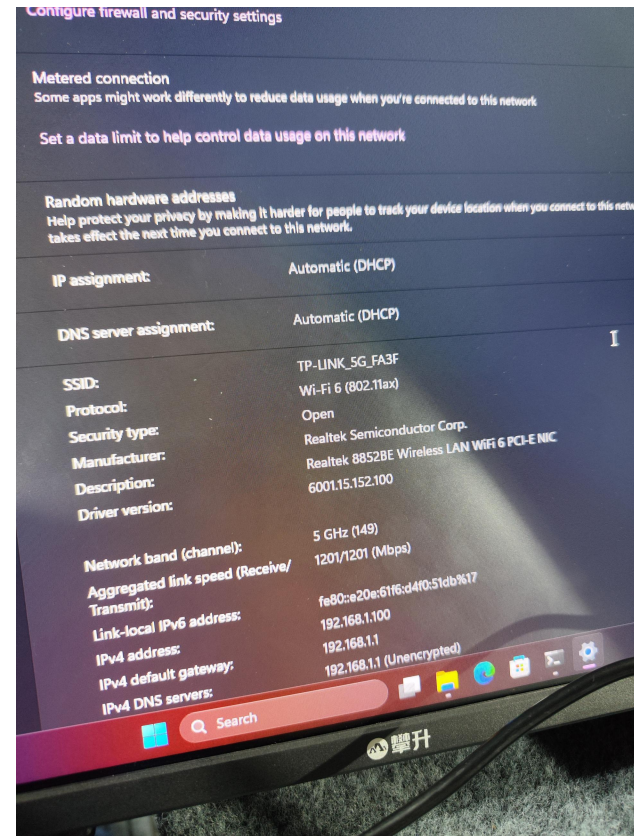
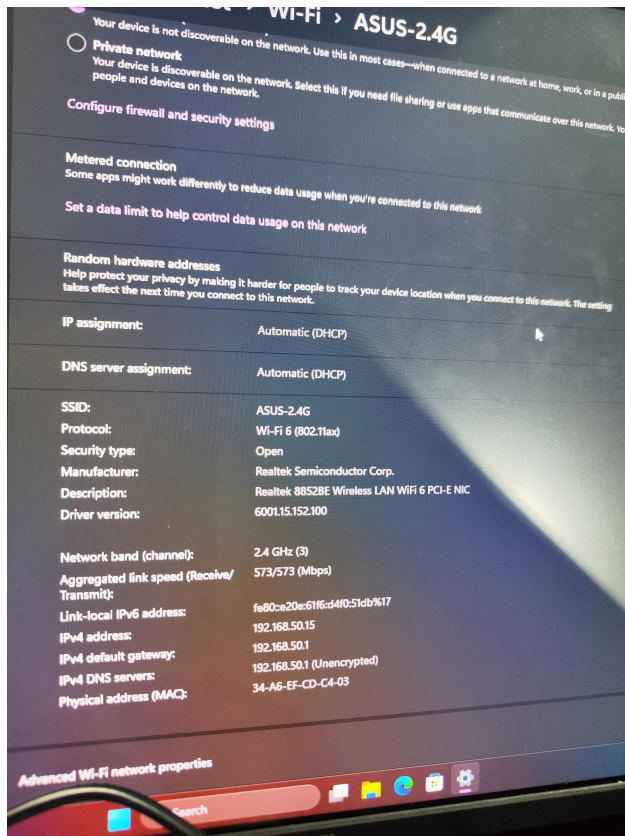
2.4上传	2.4下载	5.8上传	5.8下载
407M	427M	805M	869M

吞吐量标准：基于WiFi模块spec链接速率， 2.4G和5G $\geq$ spec 60%;

测试环境：暗室1M；蓝牙10米播放音乐无卡顿；

2. Test Result

2.4 WIFI Antenna Throughput



测试环境：暗室1M；蓝牙10米播放音乐无卡顿；



3. Conclusions

Thank you