深圳市亿圣邦科技有限公司

Shenzhen Yishengbang Technology Co., Ltd
Address:101,BuildingC,ShenzhenQianwanHardTechnology IndustrialPark,Bao'anDistrict,Shenzhen

Antenna Test Report

Customer: 艾普达

Project: T1085P1WT

GPS+WIFI ： SLK-APD-3621V2-L-190IV-B-1.13

Product: WIFI Antenna—FPC

Report date: 2025.02.17

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 艾普达. All measure data are showed below.

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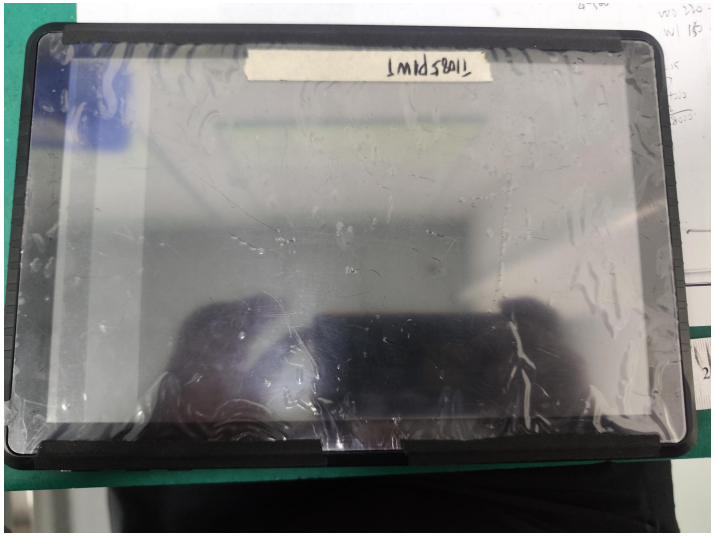
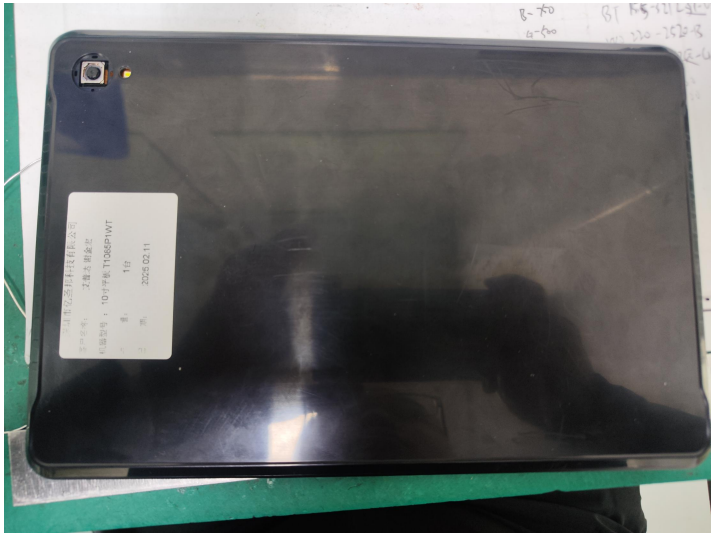
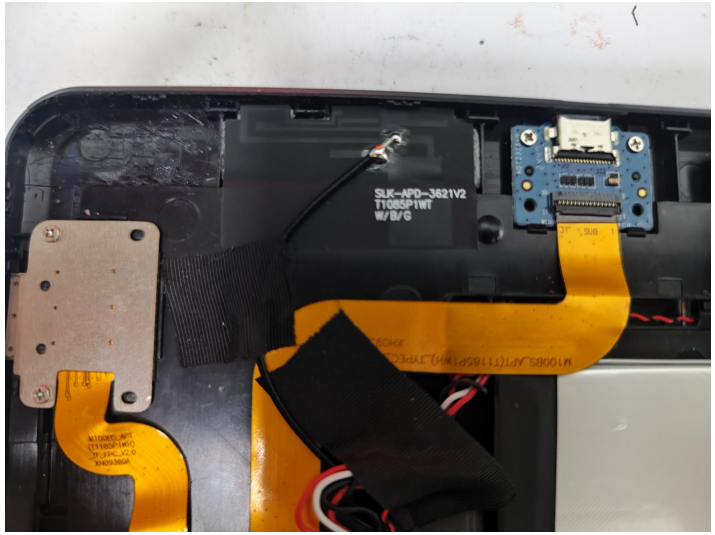
1. Product Overview

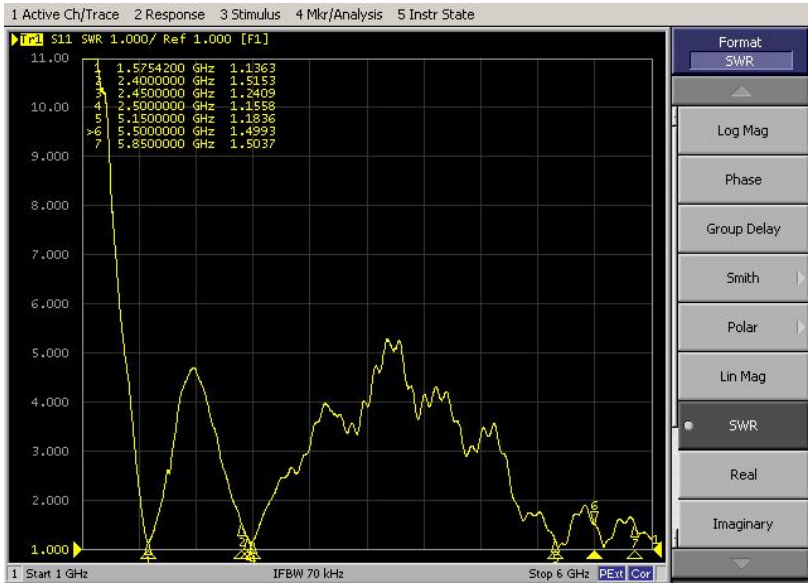


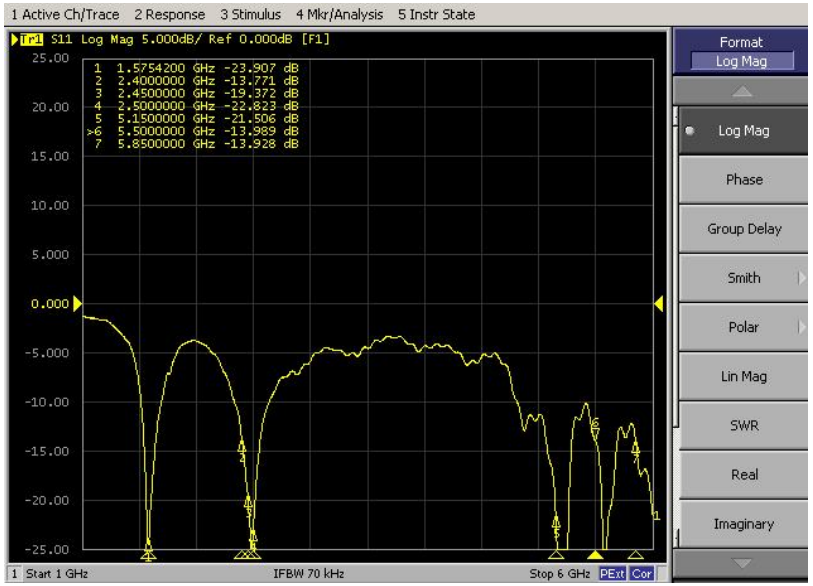




2. Test Result

2.1 GPS/WIFI Antenna VSWR/S11





2. Test Result

2.2 Antenna Parameters

2. Test Result

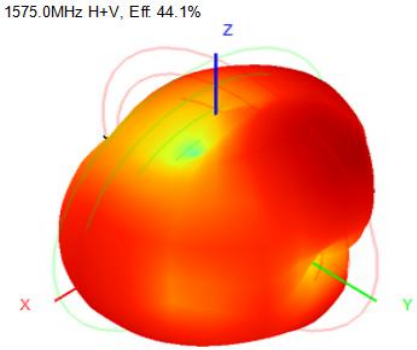
2.3 WIFI Antenna TRP/TIS

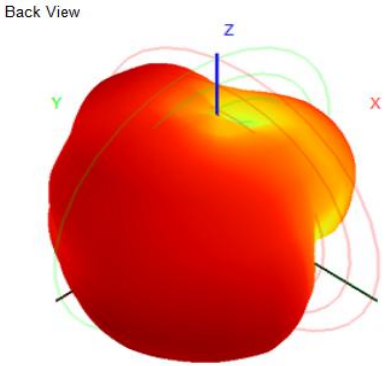
WIFI	CH	功率(54M)	灵敏度(54M)	WIFI	CH	功率(54M)	灵敏度(54M)
802.11a	36	10.61	-70.66	**802.11g**	1	13.02	-68
	149	11.34	-70.7		6	13.1	-69.54
	165	10.29	-70.09		11	13.08	-70.45
WIFI	CH	功率(11M)	灵敏度(11M)	WIFI	CH	功率(MCS7)	灵敏度(MCS7)
802.11b	1	15.6	-80.08	**802.11n**	1	13.01	-67.27
	6	15.07	-80.88		6	13.05	-68.41
	11	15.21	-81.98		11	12.67	-68.63

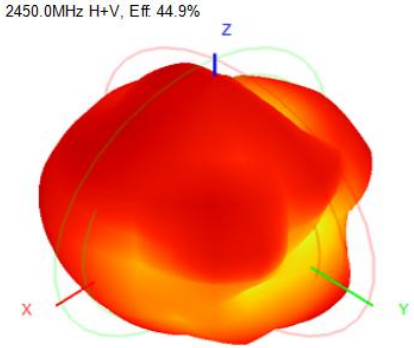
2. Test Result

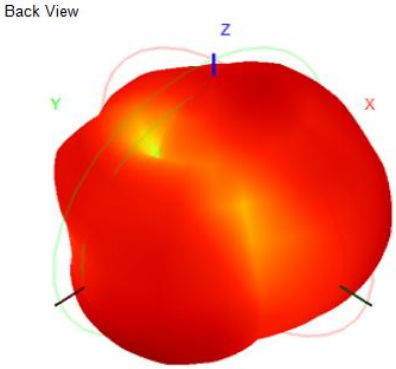
2.4 GPS/WIFI Antenna Gain/Efficiency/3D DATA

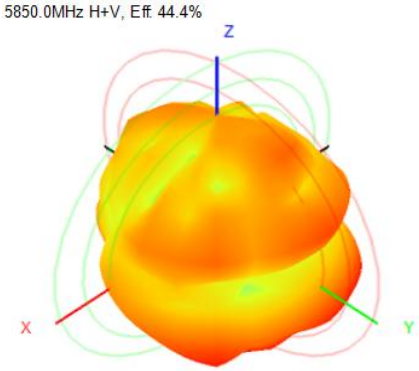
Frequency (MHz)	1575	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500	5150	5350	5500	5650	5850
Efficiency (dBi)	-3.55	-3.94	-3.73	-3.37	-3.42	-3.42	-3.47	-3.22	-3.52	-3.52	-3.47	-3.49	-3.56	-3.47	-3.56	-3.95	-3.52
Gain (dBi)	0.21	1.52	1.13	2.49	2.43	2.28	2.48	2.08	2.61	2.29	2.18	2.43	1.79	1.52	2.15	2.01	2.55
Efficiency (%)	44.11	40.30	42.31	45.94	45.43	45.49	44.95	47.54	44.46	44.38	44.91	44.74	43.96	44.91	44.03	40.23	44.40

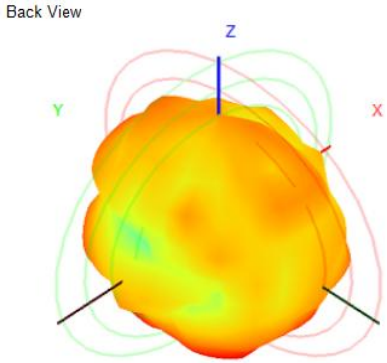












2. Test Result

2.5 GPS

测试环境：楼顶实测收星2颗40+；

2. Test Result

2.6 WIFI Antenna Signal Intensity

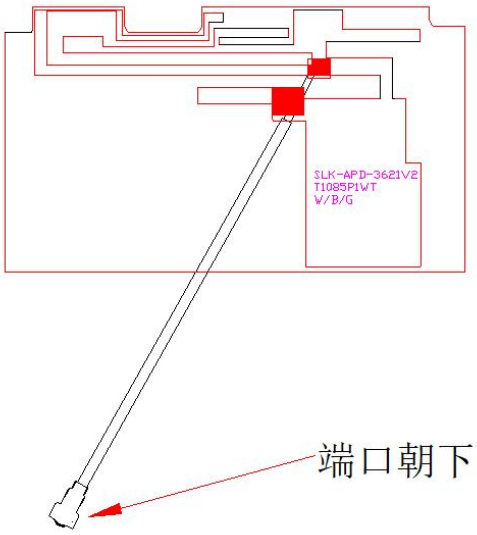
测试环境：无障碍环境下，距离路由器10M；2.4G-33.6dBm，5G-39.1dBm；蓝牙10米无卡顿

2. Test Result

2.7 Environmental Treatment

GPS+WIFI Antenna

1. Explanation of Product number :



Product Code:

(1) Customer:艾普达

(2) Antenna Name:GPS+WIFI 天线（GPS+WIFI Antenna）

(3) Connector:0.81黑色低损线，总长190mm，4代端子

2. Features

*Stable and reliable in performances

*Compact size

*RoHS compliance

3. Applications

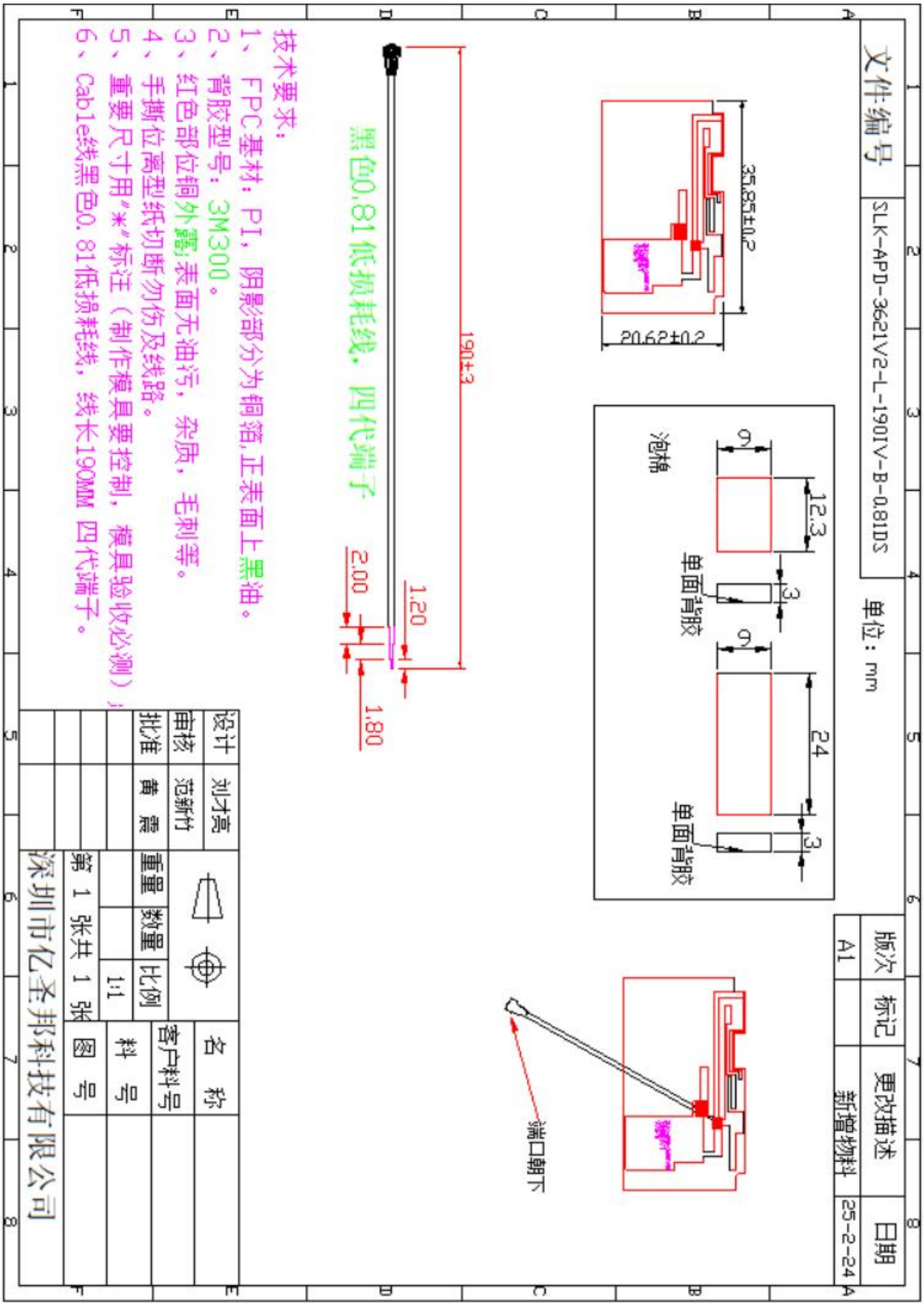
* IEEE802.11 (b/g/n/a)

* Hand-held devices when WIFI (802.11b/g/n/a) GPS functions are needed

4. Description

Holy bond's FPC antenna series are specially designed for WIFI (802.11b/g/n/a) GPS applications. Based on Holy bond's proprietary design and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

6. Antenna Dimensions (unit: mm)



3. Conclusions

Thank you