深圳市安威无线科技有限公司
Shenzhen Anwei Wireless Technology Co., Ltd.

承认书

APPROVAL SHEET

客户 Customer	赋之科技	规格型号 Specs	Rola-mini-WIFI-AW-V0.2
安威料号 Part Number	AW006-Rola-mini-021-A0	频　　段 Frequency Band	2400~5800MHZ
颜　色 Color	黑色	版　　本 Edition	REV:A
销　售 Salesperson	吕景辉	设　　计 Design	宋兵伟
结　构 Structure	覃云林	确　　认 Confirm	宋兵伟
日　期 Date	2024/05/16	签字日期 Signing Date	
客户确认 Customer confirmation:			
携手共进 共创未来 Join hands to create the future			

目录

1. Product Specifications
The report mainly provides parameter tests of Rola-mini-WIFI-AW-V0.2 antenna performance.

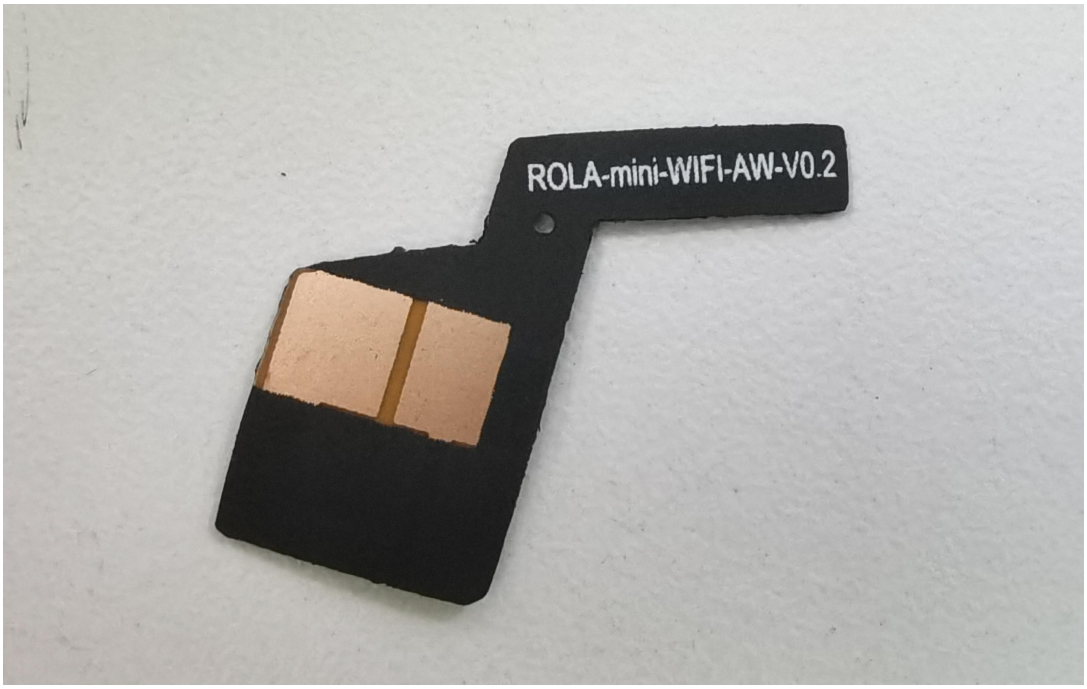
丝印型号 Silk screen model	频率范围 Frequency+Range	阻抗 Impendence	天线增益 Antenna Gain	V.S.W.R
Rola-mini-WIFI-AW-V0.2	2400～5800MHz	50Ω	2dBi	≤1.6

二、Electrical performance

1.Specifications

The **Rola-mini-WIFI-AW-V0.2 antenna operates in the 2400~5800MHz** frequency band and resonates in this frequency band.

2.Product photos



三、OTA Active Test Setup

有源测试装置依次的连接为：

Agilent8960→50 欧姆的同轴 Cable→Satimo SG16 测试系统→待测试的产品

1.Test site

AW microwave darkroom: test frequency range is 400M**H**z-6G**H**z, quiet zone range is 40c**m** circumference, reflectivity is less than -90dB.

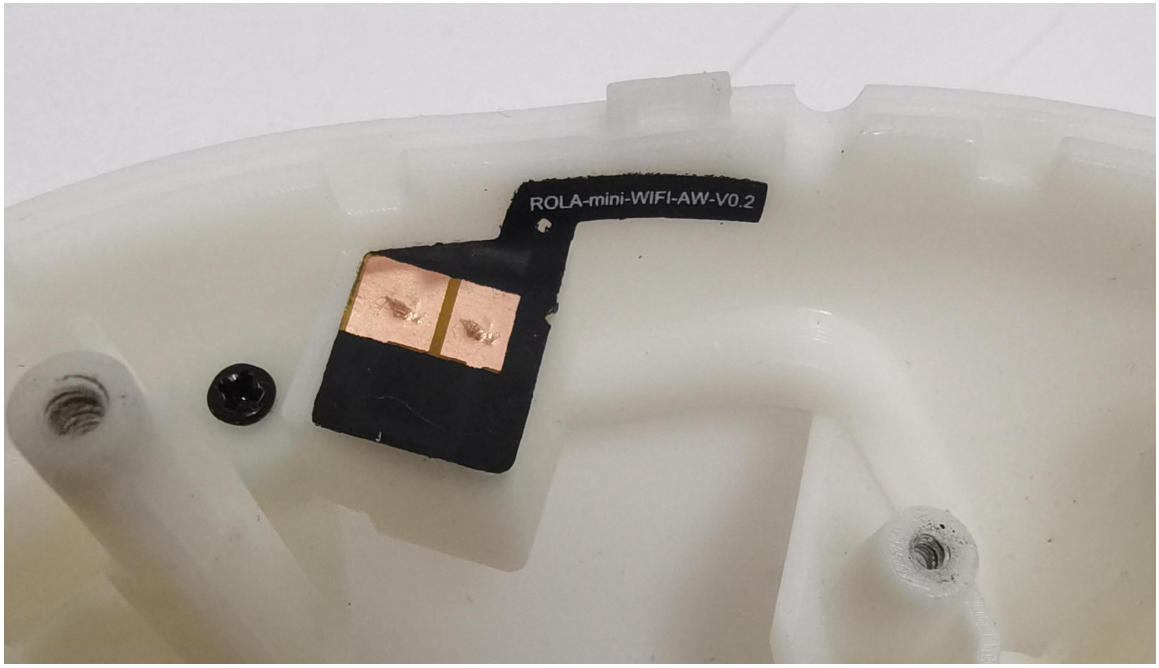
2.Test results

The maximum radiated power and maximum receiving sensitivity reflect the maximum power radiation value and the best receiving performance of the antenna in the entire radiation space. **TRP** and **TIS** reflect the average radiated power and average receiving sensitivity of the antenna, that is, the overall receiving performance of the antenna.

下面为 Rola-mini 双频 WIFI 天线有源测试结果：

WIFI	Channel	TRP（dBm）	TIS（dBm）
B_11M	1	18.56	-84.34
	6	17.76	-83.36
	11	17.43	-83.14
G_54M	1	16.67	-74.02
	6	15.15	-73.54
	11	14.82	-72.97
N_65M	1	17.03	-72.19
	6	15.56	-71.7
	11	15.14	-71.14
A_54M	36	13.26	-74.78
	45	13.28	-74.28
	55	10.47	-73.81

Assembly method

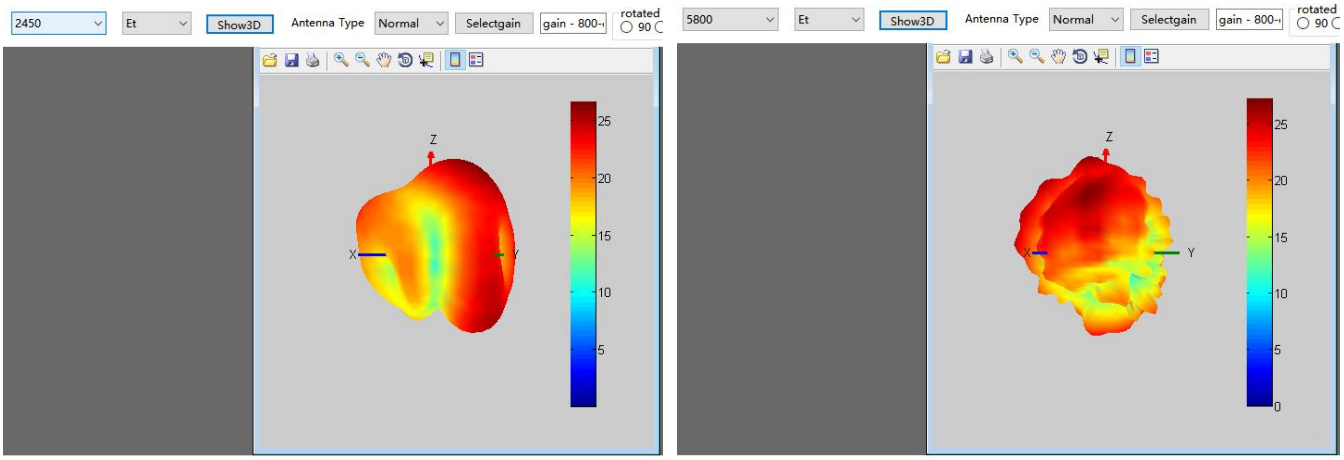


四、Passive test

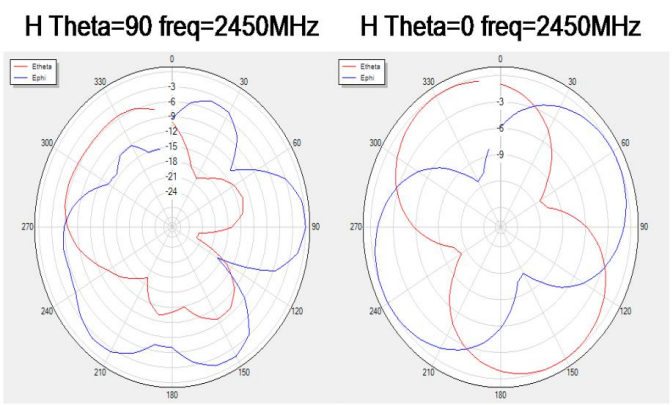
1.Gain and efficiency

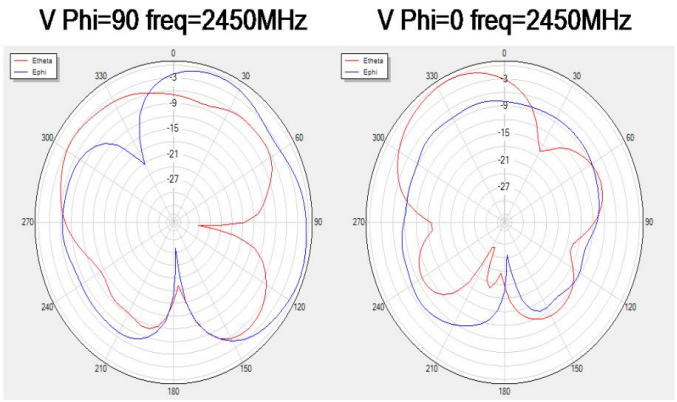
frequency 频率(MHz)	gain 增益(dBi)	efficiency 效率(%)
2400	1.85	52.31
2450	2.23	54.60
2500	1.93	50.36
5100	2.02	52.11
5200	1.35	49.64
5300	1.28	49.34
5400	1.07	48.02
5500	2.58	48.36
5600	2.81	51.52
5700	3.18	54.83
5800	3.31	55.32

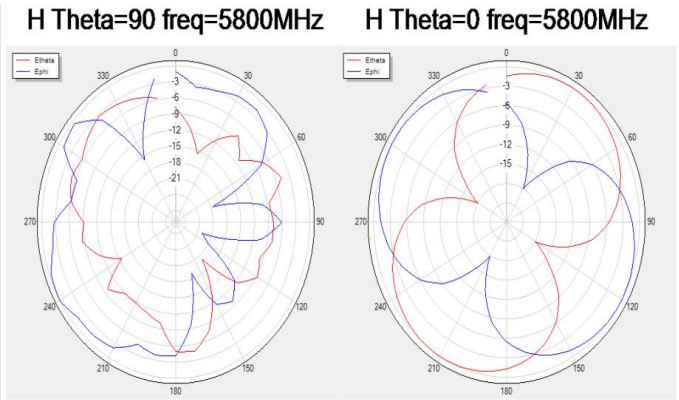
2.Apple illustration

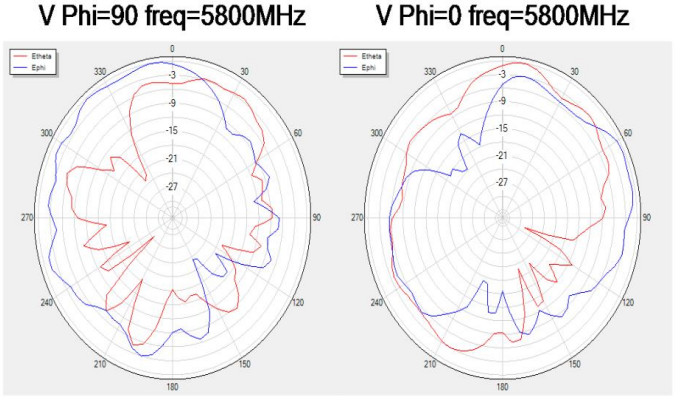


3.Direction diagram









五、建议与结论

此报告是根据客户提供产品测得的天线电器性能,请贵公司认真查阅。

六、Antenna structure drawing