

Shenzhen Anwei Wireless Technology Co., Ltd.

承认书

APPROVAL SHEET

客户 Customer	Endowed technology	规格型号 Specs	Rola-WIFI-AW-V0.2
安威料号 Part Number	AW006-Rola-021-A0	频段 Frequency Band	2400~5850MHZ
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	2024/01/18	签字日期 Signing Date	

客户确认 Customer confirmation:

携手共进 共创未来

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一、Product specifications

The report mainly provides parameter testing of Rola-WIFI-AW-V0.2 antenna performance.

丝印型号 Silk screen model	频率范围 Frequency+Range	阻抗 Impedence	天线增益 Antenna Gain	V. S. W. R
Rola-WIFI-AW-V0.2	2400~5800MHz	50Ω	2.5dBi	1.3

二、Electrical performance

1.Specifications

Rola-WIFI-AW-V0.2 天线工作频段在 2400~5850MHz,在此频段产生谐振。

2.Products real shot



三、OTA Active test setup

The active test device connections in sequence are:

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 anechoic chamber: The test frequency range is 400MHz-6GHz, the quiet zone range is 40cm circumference, and the reflectivity is less than -90dB.

2.Test Results

The maximum radiated power and maximum receiving sensitivity reflect the maximum power radiation value and 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 , they reflect the overall receiving performance of the antenna.

The following are the active test results of Rola dual-band WIFI antenna:

WIFI	Channel	TRP (dBm)	TIS (dBm)
WIFI_B_11M	L	16.49	-87.36
	M	15.1	-87.65
	H	15.16	-87.59
WIFI_G_54M	L	15.75	-72.92
	M	14.99	-72.81
	H	15.31	-73.02
WIFI_N_MCS7	L	17.64	-72.43
	M	16.89	-72.32
	H	17.3	-72.02
WIFI_A_54M	L	16.88	-71.16
	M	16.38	-70.58
	H	14.86	-72.77

Assembly method

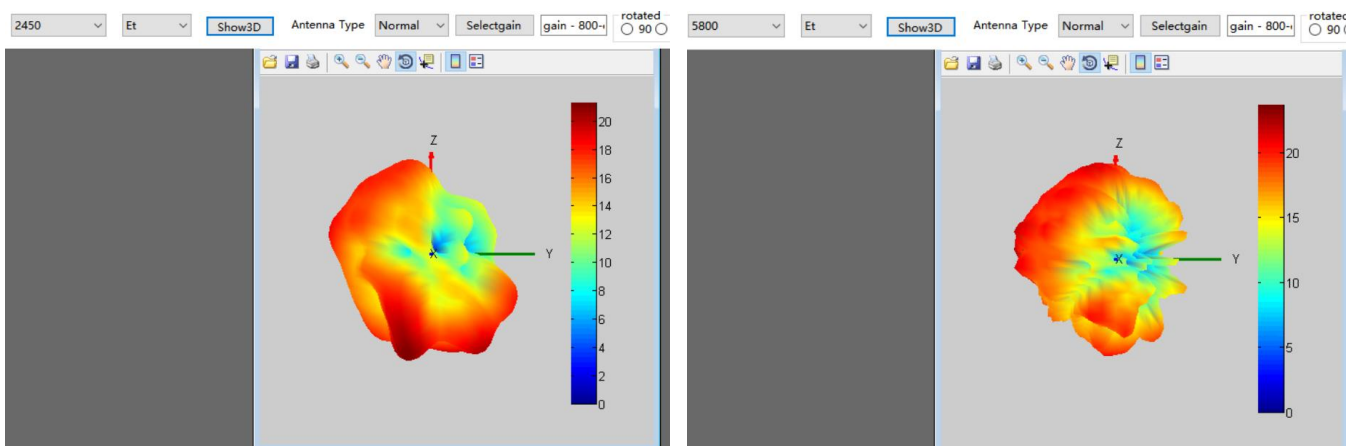


四、Passive testing

1. Gain and efficiency

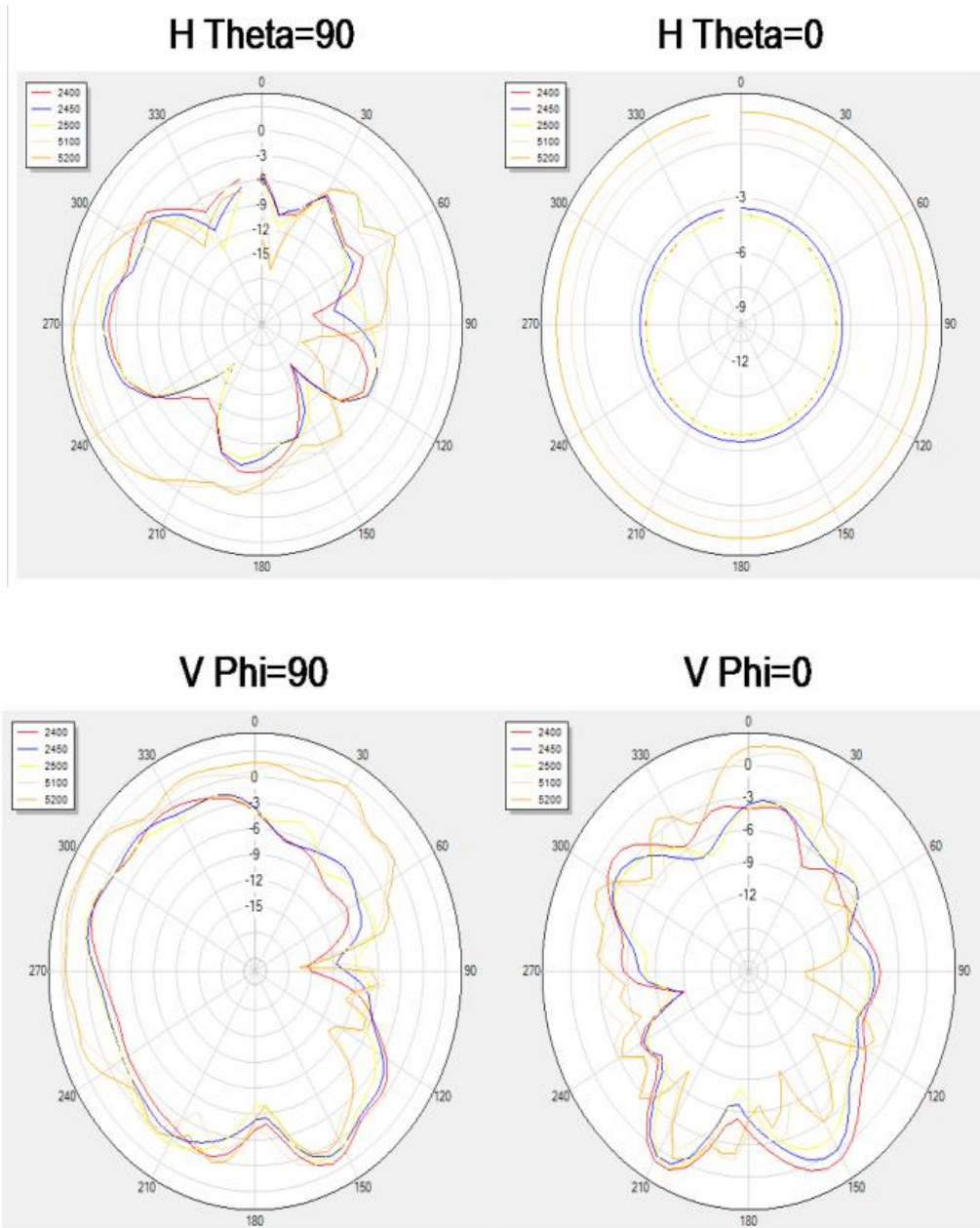
Gain&Efficiency 增益和效率		
frequency 频率 (MHz)	gain 增益 (dBi)	efficiency 效率 (%)
2400	4.03	46.04
2450	3.03	42.94
2500	2.96	42.79
5100	4.69	62.67
5200	4.8	61.98
5300	5.08	61.46
5400	5.33	61.56
5500	5.88	64.39
5600	5.89	68.99
5700	5.12	63.18
5850	5.49	65.01

2. Apple diagram



3.Direction map

Unit (dBi)



五、Recommendations and conclusions

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 drawings

