

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4/5.8G ANT1 五金内置天线

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01NJ2D1581A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy 	
APPROVED BY:	Huang	
DATE:	2025/2/24	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2025-2-24

Content

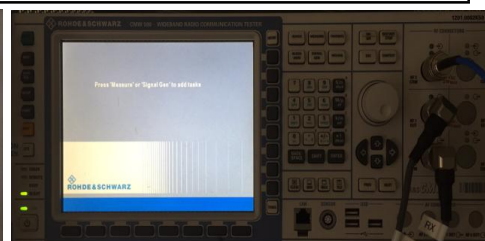
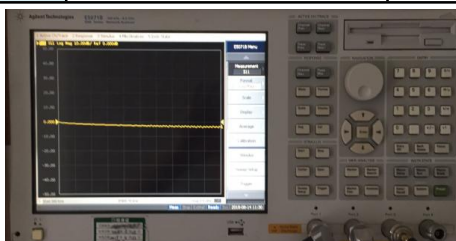
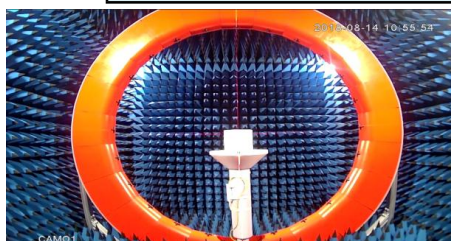
<i>Item</i>	<i>Description</i>
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	16.5x4.6x2.0xT0.3	mm
Frequency	2400-2500 / 5150-5850	MHz
Impedance	50	Ω
VSWR	< 3	
Polarization	Linear Polarization	
Gain	2 REF	dBi
Efficiency	>40	%
Connector Type	/	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

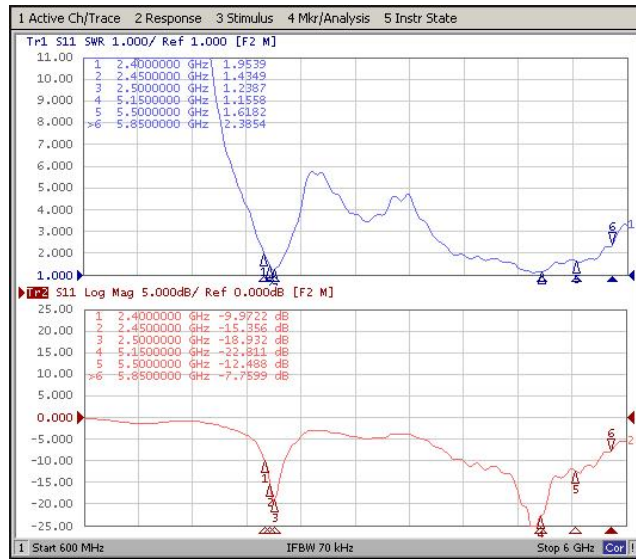
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter

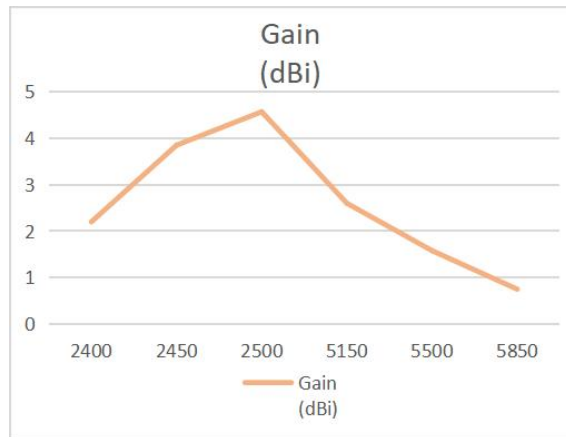
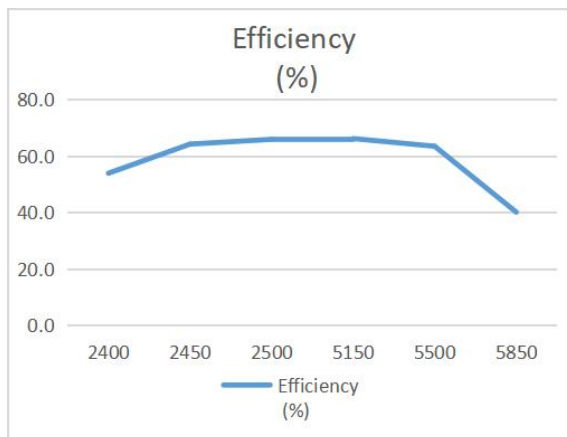
Frequency (MHz)	R L (dB)	VSWR
2400	-9.97	1.95
2450	-15.35	1.43
2500	-18.93	1.23
5150	-22.81	1.15
5500	-12.48	1.61
5850	-7.75	2.38

* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$

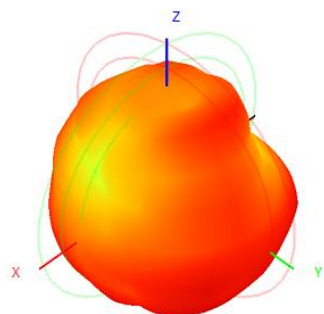


4. Efficiency and Gain

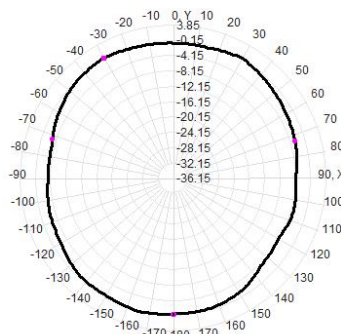
Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	53.94	64.25	65.94	66.21	63.49	40.17
Gain (dBi)	2.20	3.85	4.57	2.60	1.58	0.75



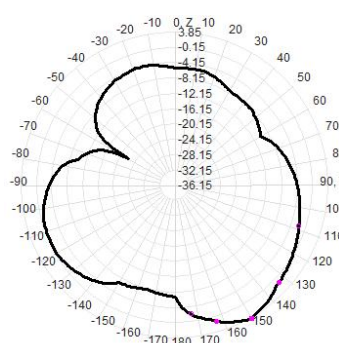
5. Radiation Pattern



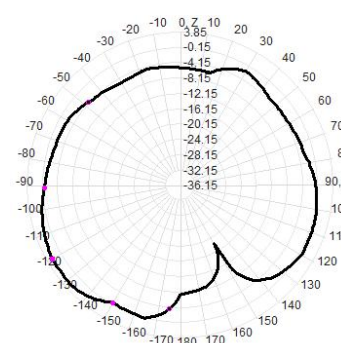
2450MHz



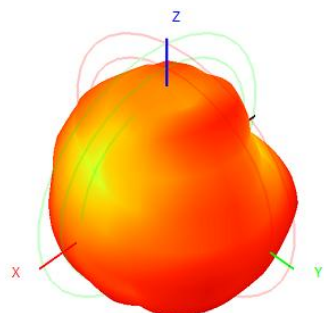
H-XY



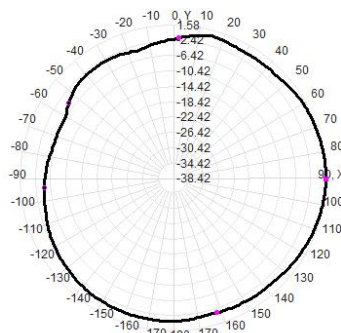
E1-XZ



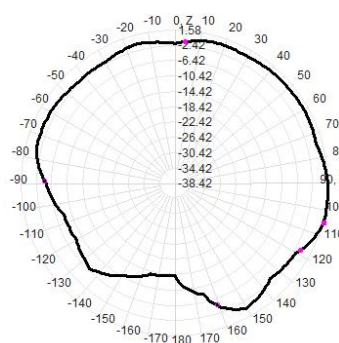
E2-YZ



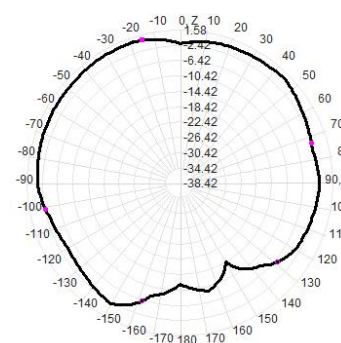
5500MHz



H-XY



E1-XZ



E2-YZ



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

6. Active test data

Channel	Measurement	A 模 54M	B 模 11M	G 模 54M	A 模 MCS7
1	TRP	12.09	16.06	14.48	14.29
6	TRP	16.74	16.38	15.55	15.60
11	TRP	16.74	16.34	14.18	14.50
1	TIS(EIRP)	-74.62	-86.22	-73.31	-70.43
6	TIS(EIRP)	-71.16	-84.24	-71.65	-69.58
11	TIS(EIRP)	-72.22	-86.10	-73.70	-70.32

7.Mechanical Specification

