

APPROVAL SHEET

Antenna type: External Antenna

PRODUCT NAME: 2.4/5.8G W91 White antenna L=160MM

CUSTOMER P/N:

Youbi P/N: UB02C160W3Da273A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2025-11-26	



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co.,Ltd

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2025-11-26

Content

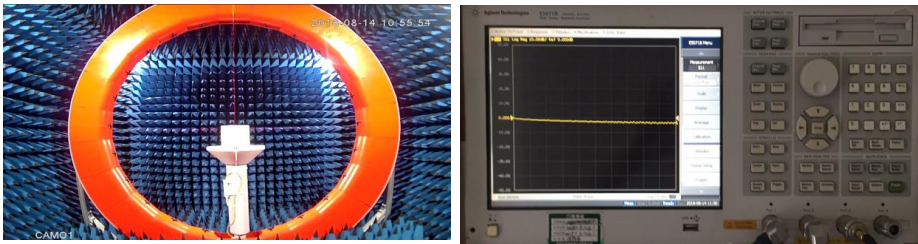
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1.Electrical Specification

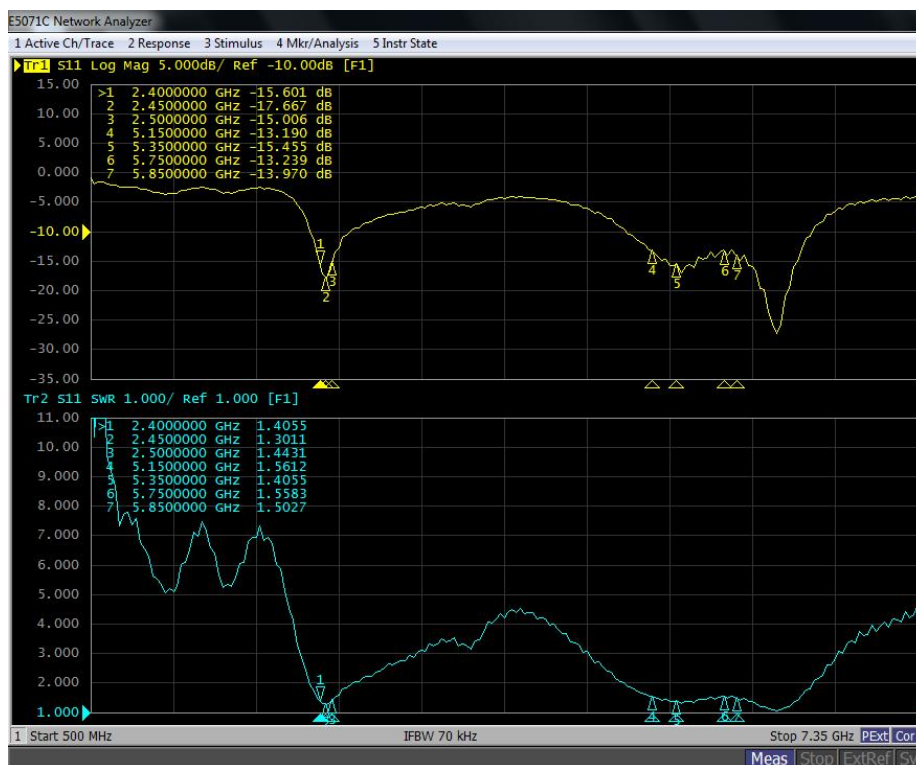
Characteristics	Specifications	Unit
Outline Dimensions	Ø13*105 L=160	mm
Frequency	2400-2500;5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
AVG Gain	2.3	dBi
Efficiency	≥ 60	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+85℃	

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)

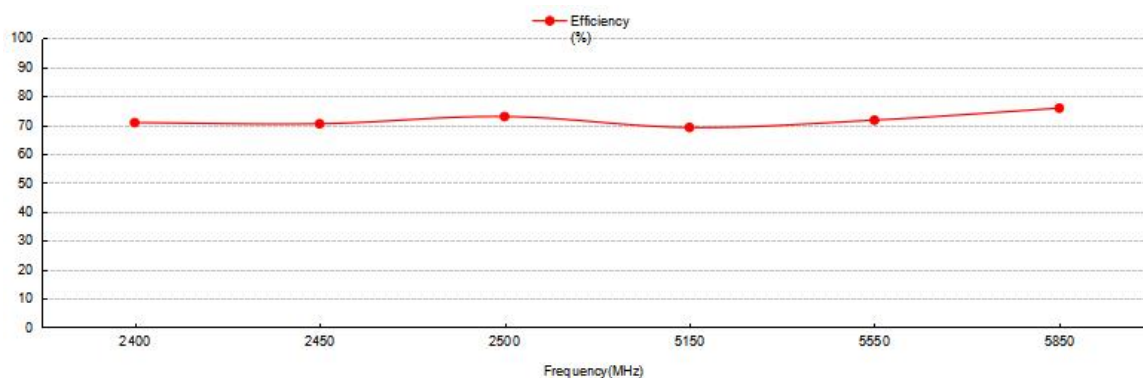
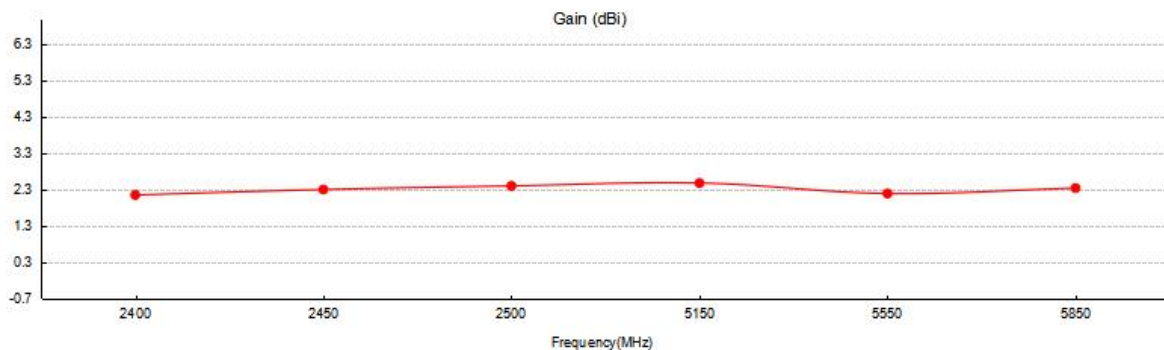


3. S Parameter



Frequency (MHz)	Return Loss(dB)	VSWR
2400	-15.60	1.40
2450	-17.66	1.30
2500	-15.00	1.44
5150	-13.19	1.56
5350	-15.45	1.40
5750	-13.23	1.55
5850	-13.97	1.50

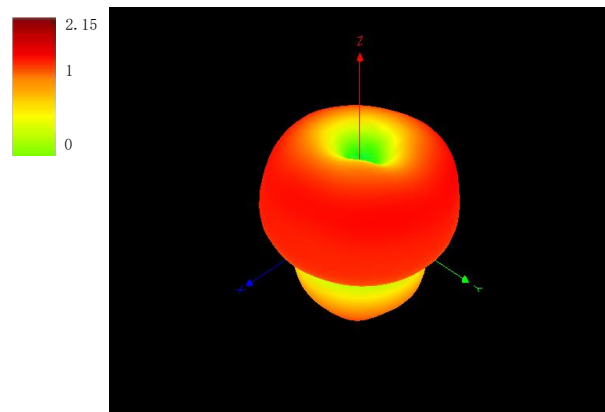
4. Efficiency and Gain



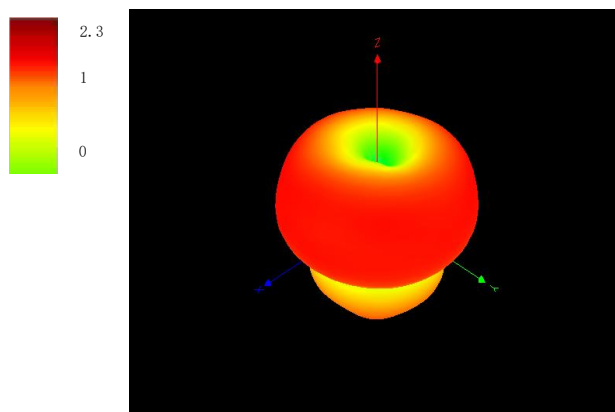
Frequency (MHz)	2400	2450	2500	5150	5550	5850
Efficiency (%)	70.8	70.4	72.9	69.12	71.65	75.79
Gain (dBi)	2.15	2.3	2.4	2.48	2.19	2.34

5. Radiation Pattern

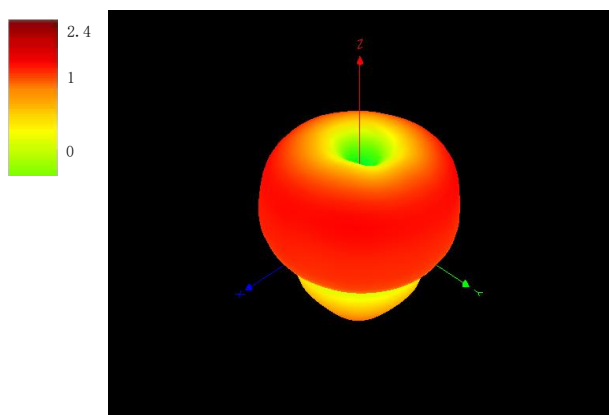
5-1 Antenna 3D Radiation Pattern



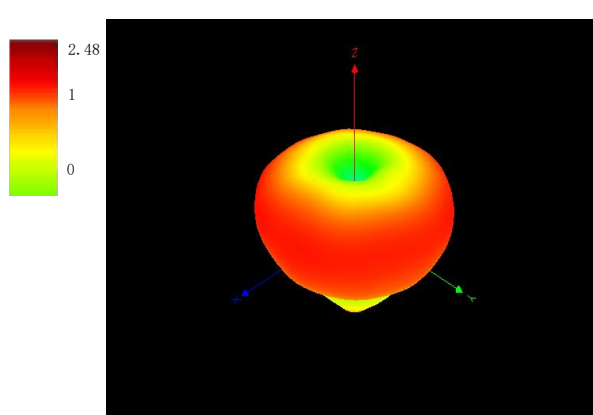
2400MHz



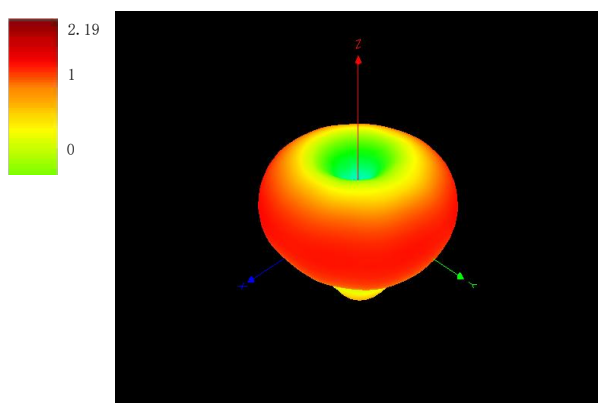
2450MHz



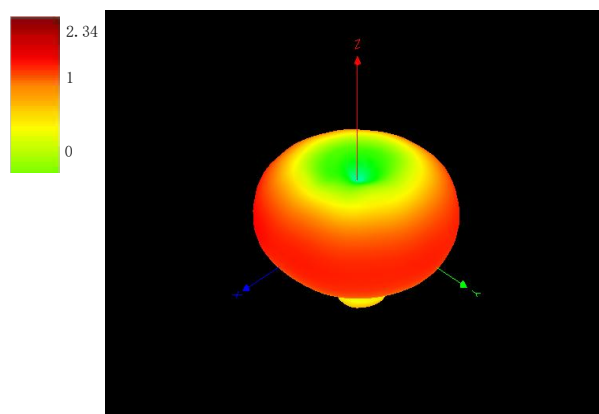
2500MHz



5150MHz

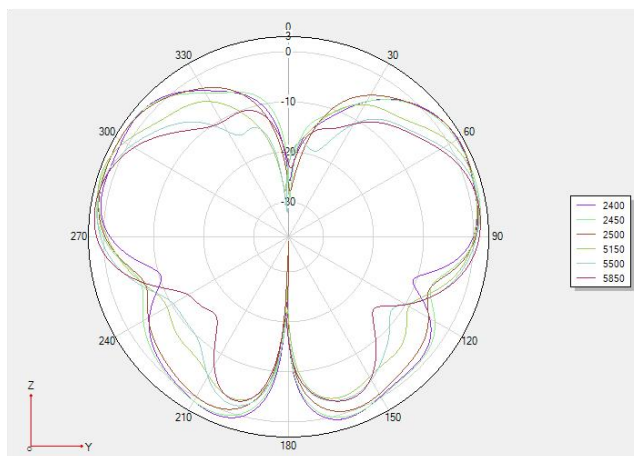


5550MHz

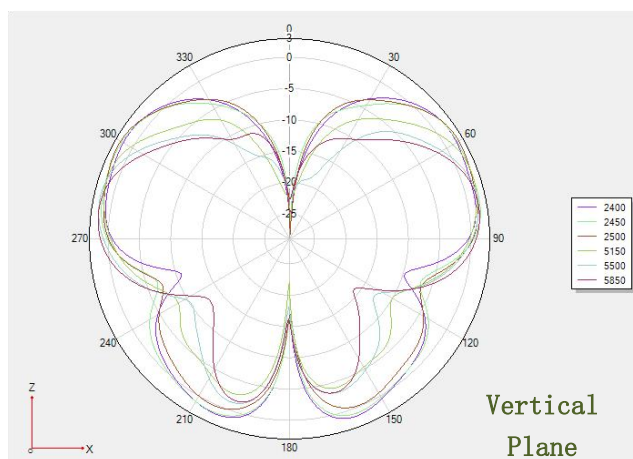


5850MHz

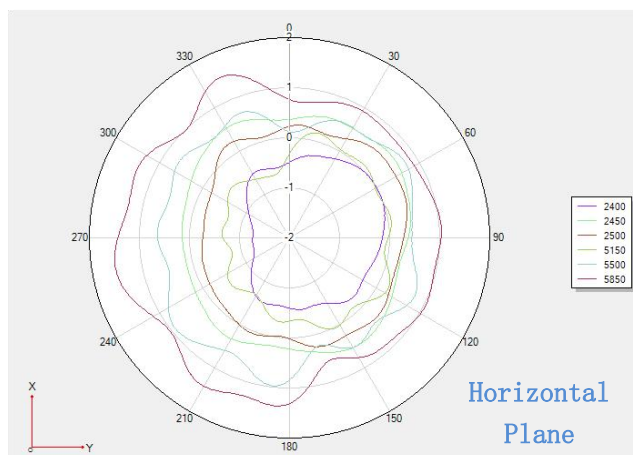
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

