

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4/5.8G W91 白色天线 L=270mm+1.13 灰色线+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C270W3D5687A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2025-08-10	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Lina	2025-08-10

Content

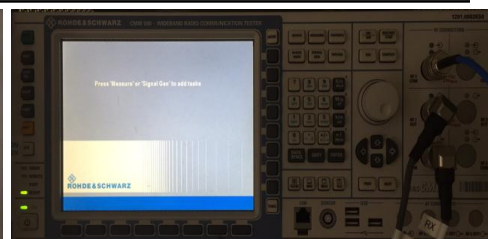
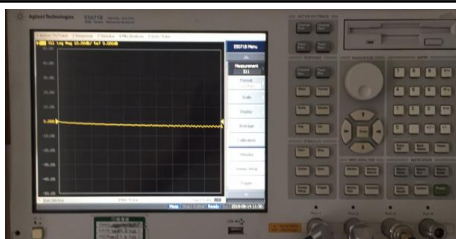
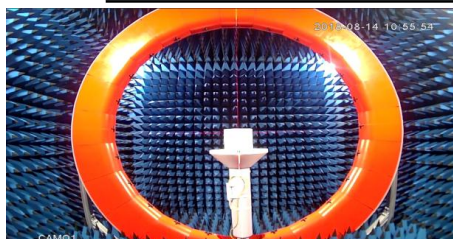
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification:

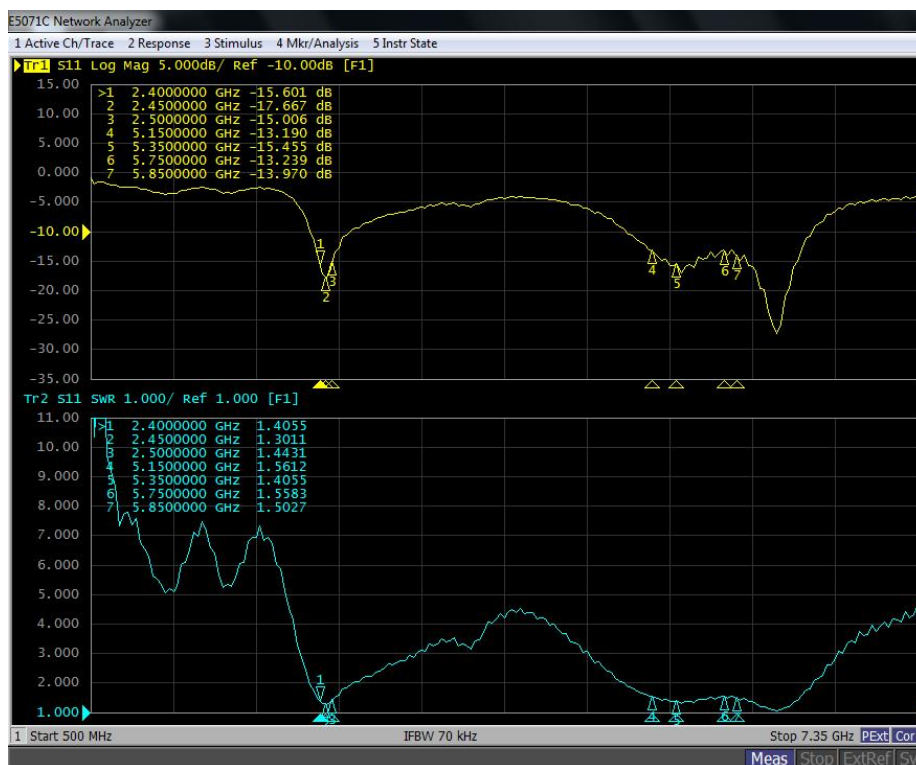
Characteristics	Specifications	Unit
Outline Dimensions	13x105,L=270	mm
Frequency	2400-2500;5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	2 $\pm$ 0.5	dBi
Efficiency	>60	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-40 $^{\circ}$ C~+85 $^{\circ}$ C	
Storage Temp	-40 $^{\circ}$ C~+65 $^{\circ}$ C	

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)

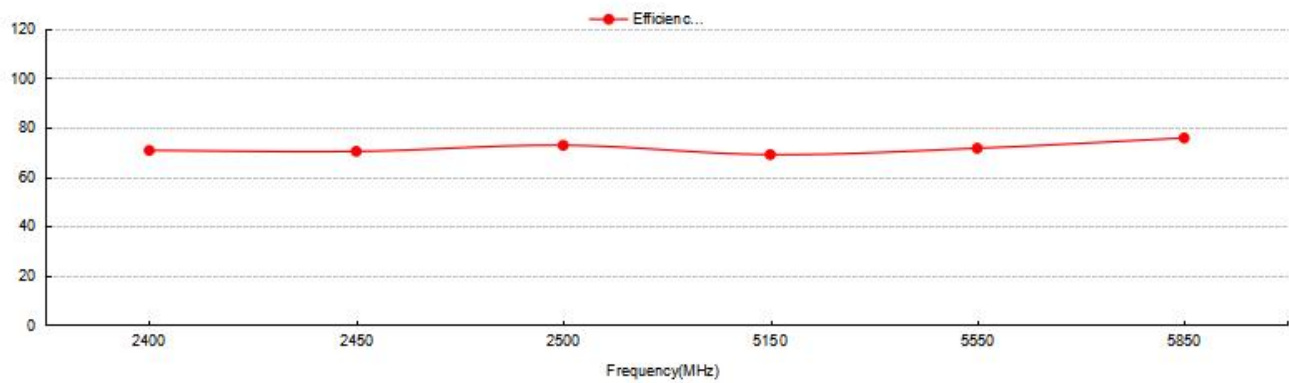
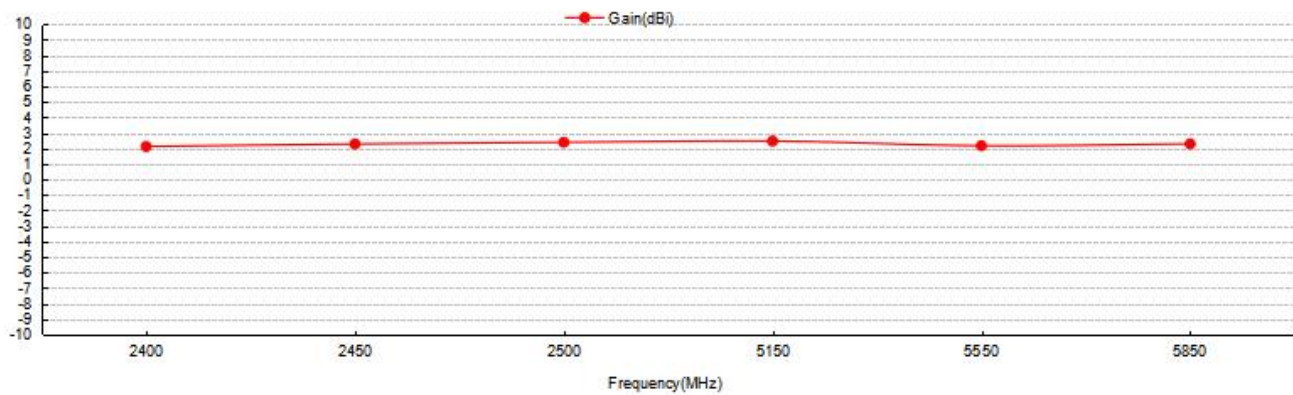


3. S Parameter



Frequency (MHz)	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

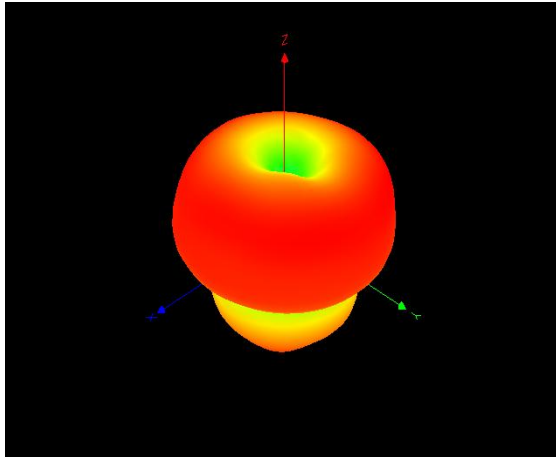
4. Efficiency and Gain



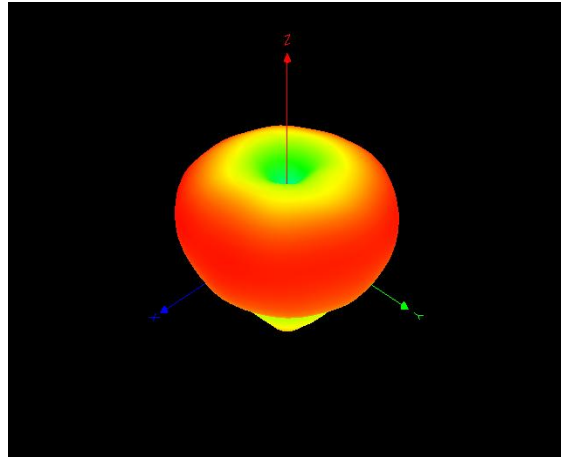
Frequency (MHz)	2400	2450	2500	5150	5550	5850
Efficiency (%)	70.72	70.33	72.8	69.02	71.6	75.75
Gain(dBi)	2.12	2.28	2.39	2.47	2.17	2.29

5. Radiation Pattern

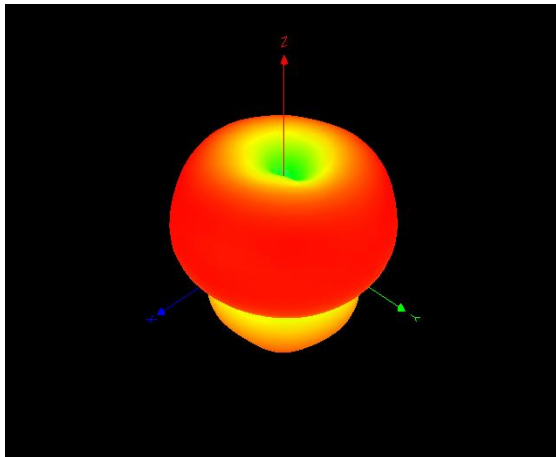
5-1 Antenna 3D Radiation Pattern



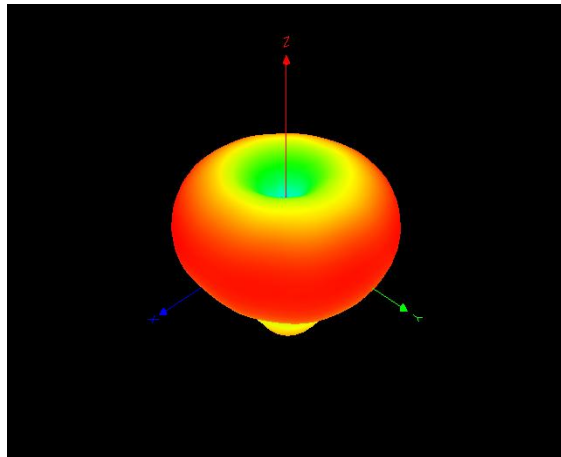
2400MHz



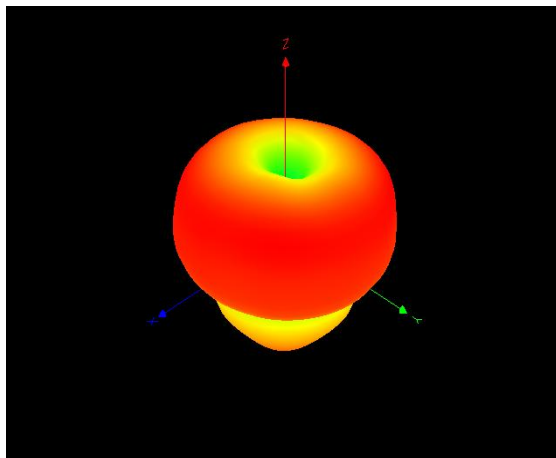
5150MHz



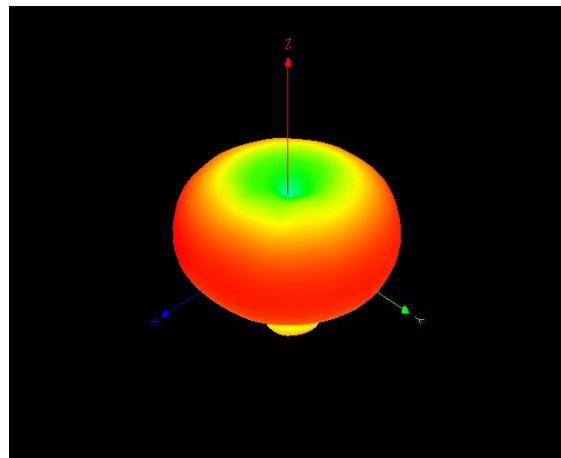
2450MHz



5550MHz

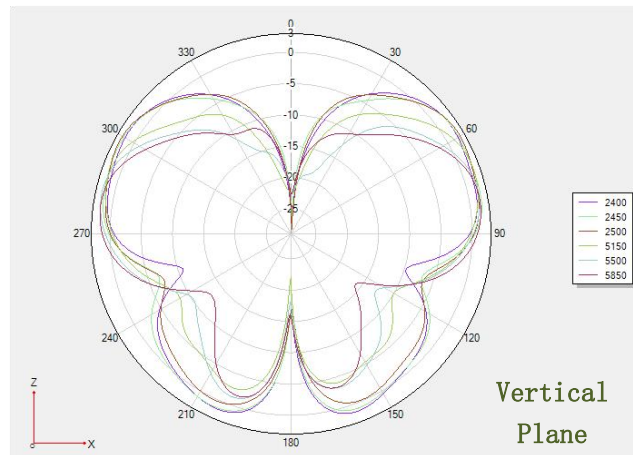


2500MHz

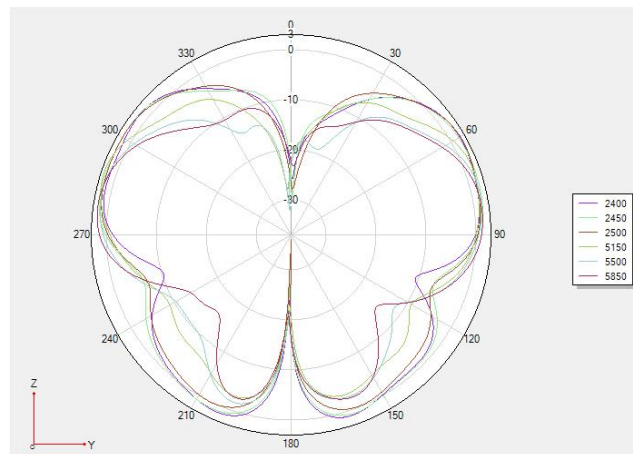


5850MHz

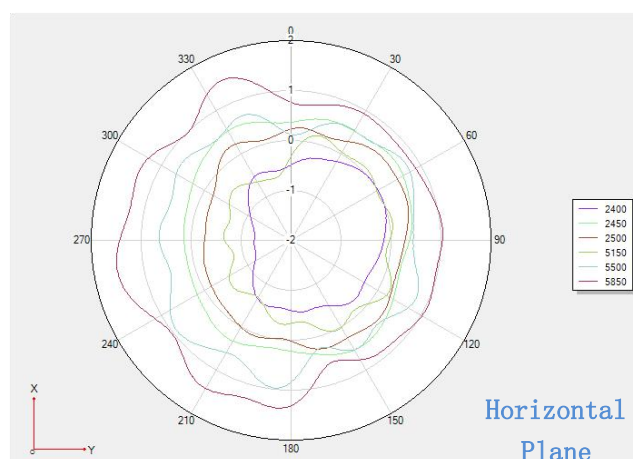
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

