

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME: Yunlian Youke

产 品 名 称 2.4G W98 white short bottom fixed antenna

PRODUCT NAME: L=280mm stripped wire 1.0 * 1.5 * 2.5

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C280W5D2202A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2022/06/17	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Yongixn	2022-06-17

Content

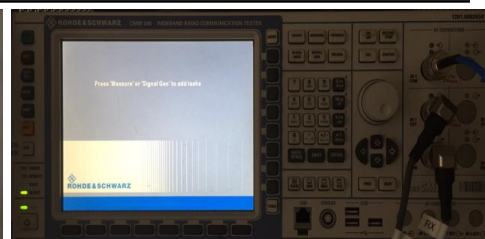
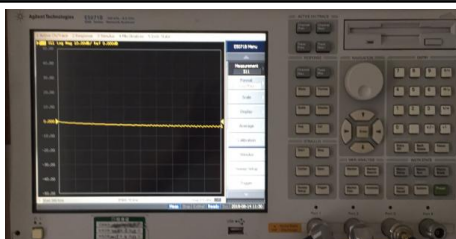
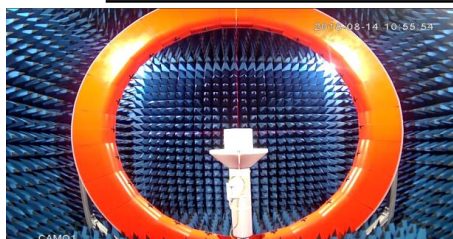
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification
7.-----	Packaging

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	12.57x191,L280	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	4.66	dBi
Efficiency	>60	%
Connector Type	OPEN 1/1.5/2.5	
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)	Return Loss (dB)	VSWR
2400	-23.18	1.14
2450	-22.18	1.16
2500	-15.69	1.39



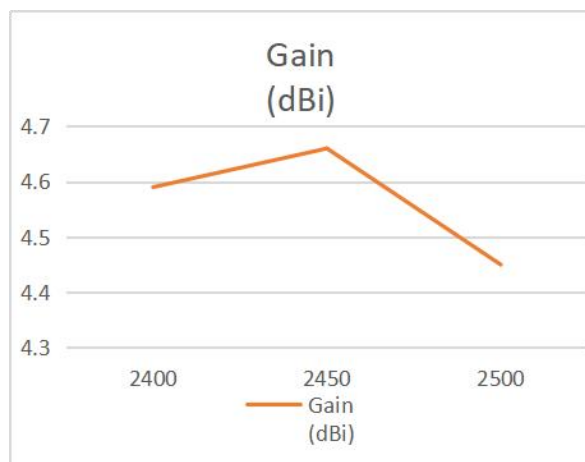
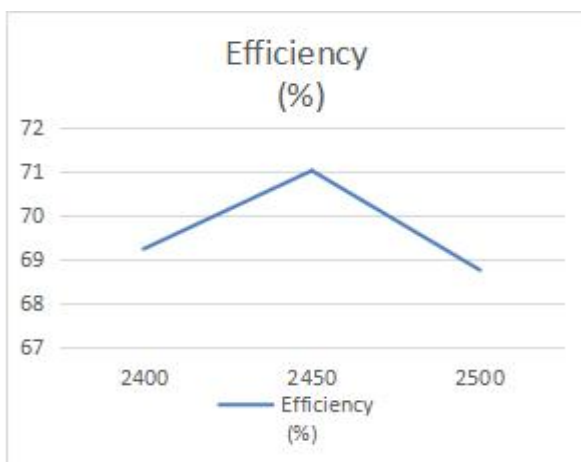
* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

$$RL = 20 \cdot \log_{10}[(VSWR+1)/(VSWR-1)]$$

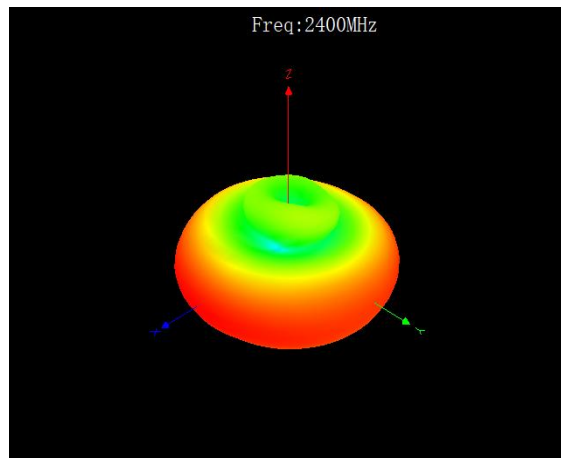
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	69.25	71.03	68.77
Gain (dBi)	4.59	4.66	4.45

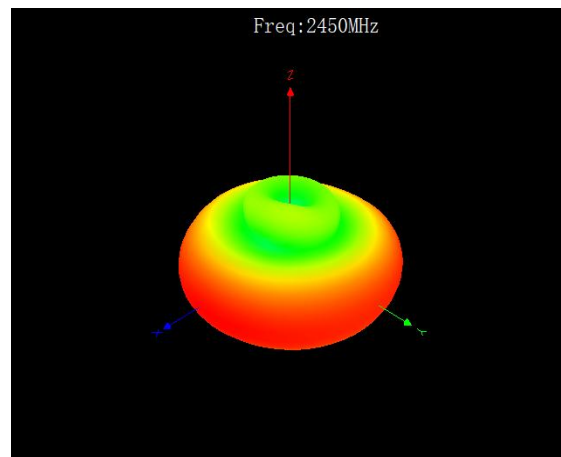


5. Radiation Pattern

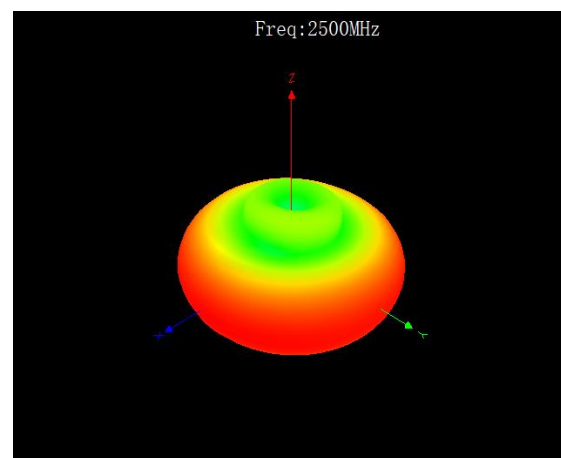
5-1 Antenna 3D Radiation Pattern



2400MHz

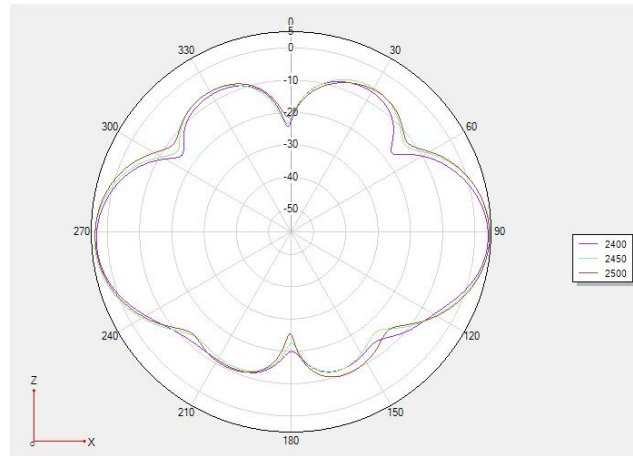


2450MHz

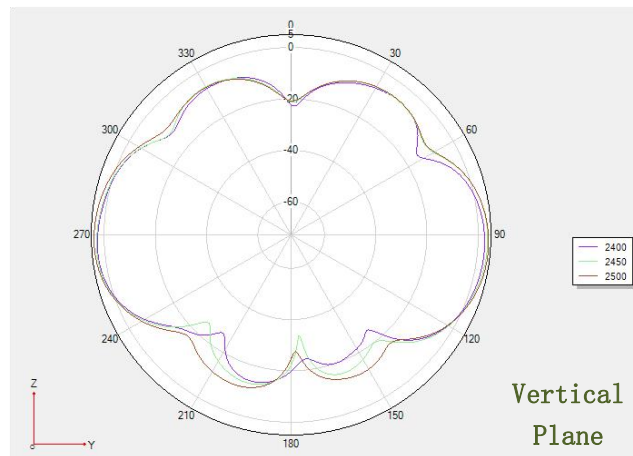


2500MHz

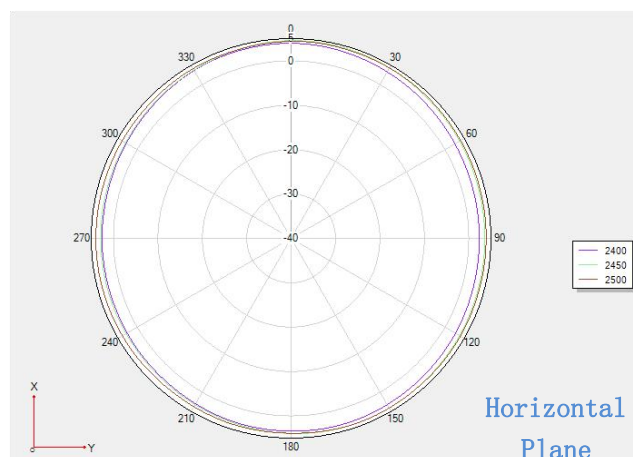
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification

