



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4/5.8GW71 white antenna L=250mm + 1.13 white wire + first-generation terminal

天 线 类 型

Type :External Antenna

优比电子料号

Youbi P/N: UB02C250W2D5215A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:	Changxing.Liu	
DATE:	2024/3/21	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2024-3-21

Content

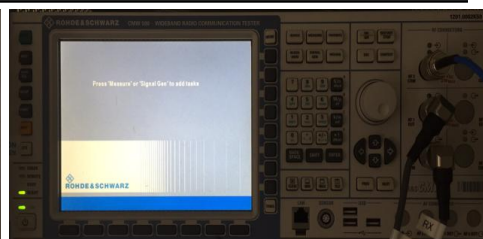
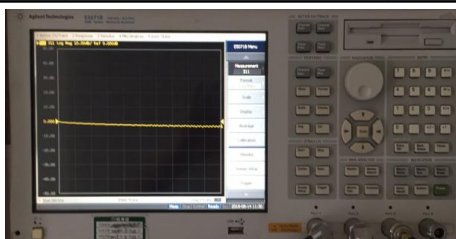
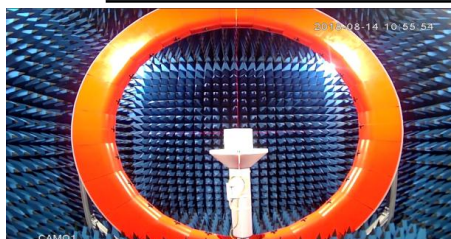
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification:

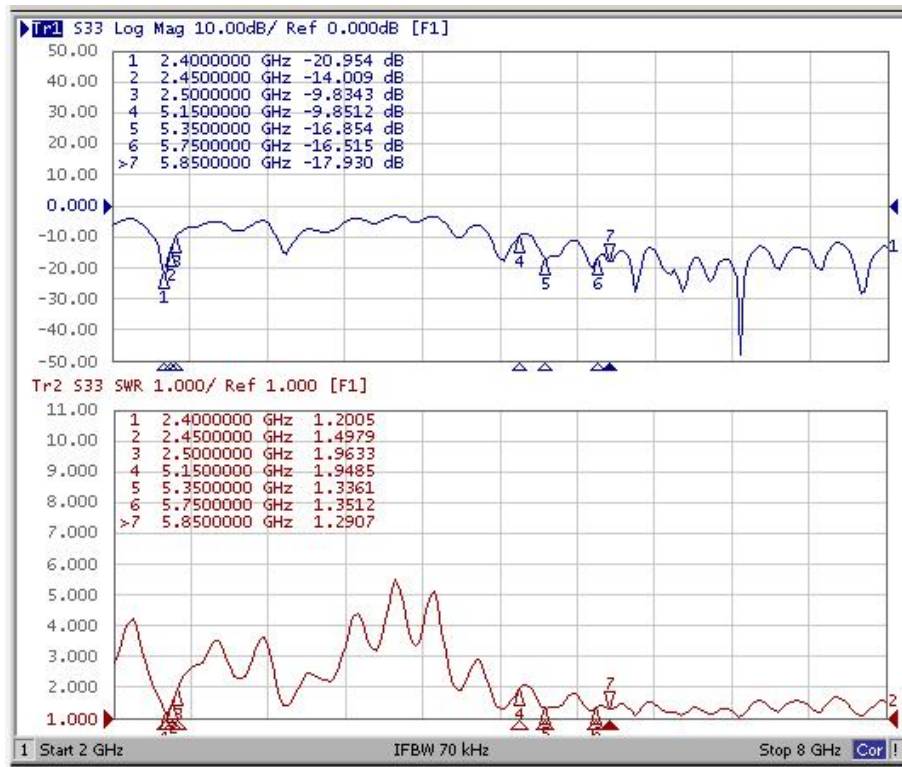
Characteristics	Specifications	Unit
Outline Dimensions	12.9x104.9,L250	mm
Frequency	2400-2500;5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 2.5	
Polarization	Linear Polarization	
Gain	2 $\pm$ 1	dBi
Efficiency	>60	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+65℃	

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)

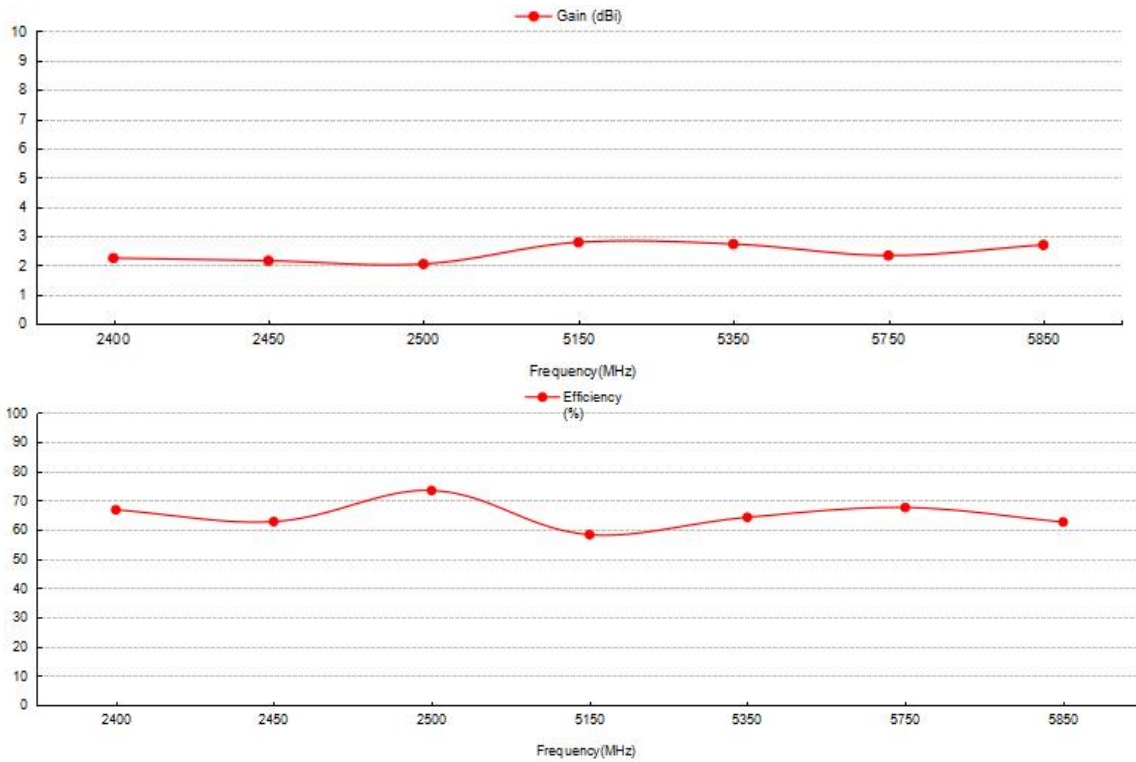


3. S Parameter



Frequency (MHz)	Return Loss (dB)	VSWR
2400	-20.954	1.2
2450	-14.009	1.49
2500	-9.83	1.96
5150	-9.85	1.94
5350	-16.854	1.33
5750	-16.515	1.35
5850	-17.930	1.29

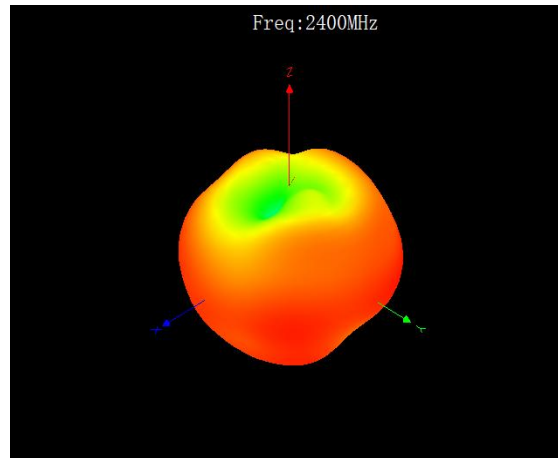
4. Efficiency and Gain



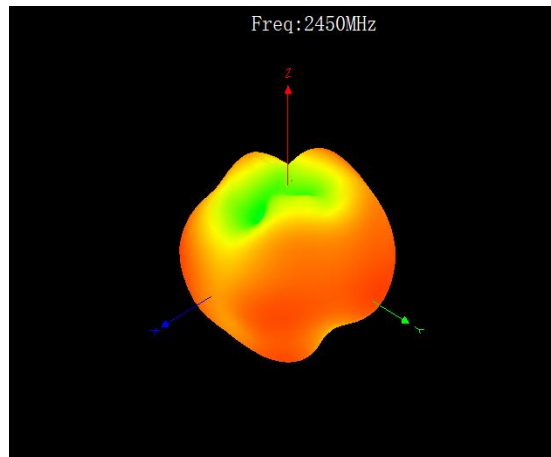
Frequency (MHz)	2400	2450	2500	5150	5350	5750	5850
Efficiency (%)	66.84	62.82	73.46	58.35	64.28	67.63	62.68
Gain (dBi)	2.25	2.16	2.05	2.79	2.73	2.34	2.7

5. Radiation Pattern

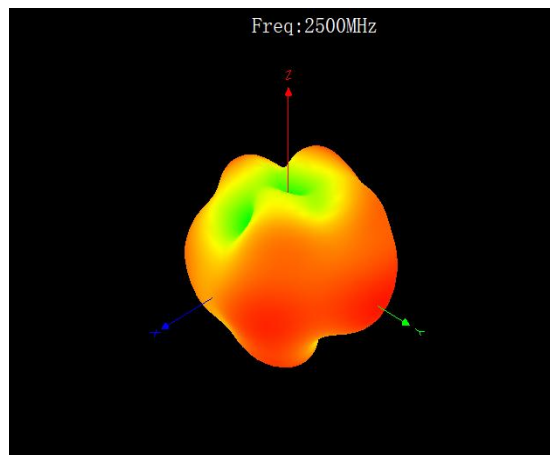
5-1 Antenna 3D Radiation Pattern



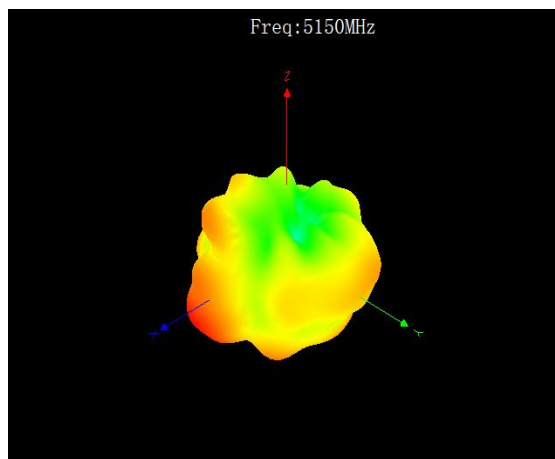
2400MHz



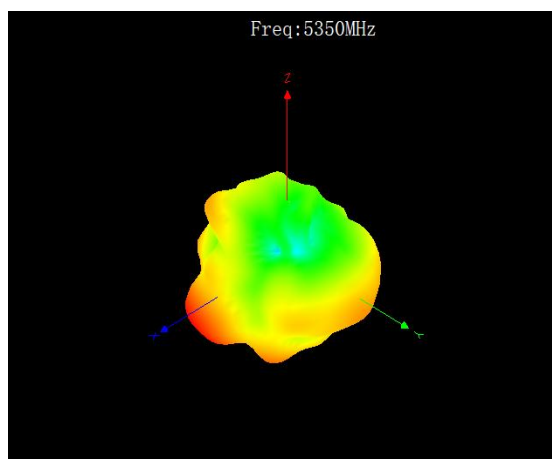
2450MHz



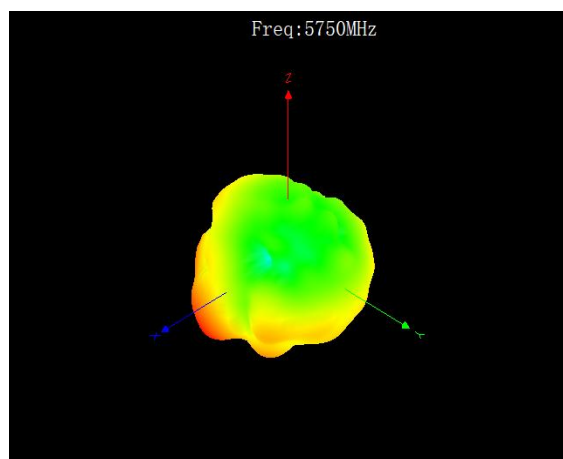
2500MHz



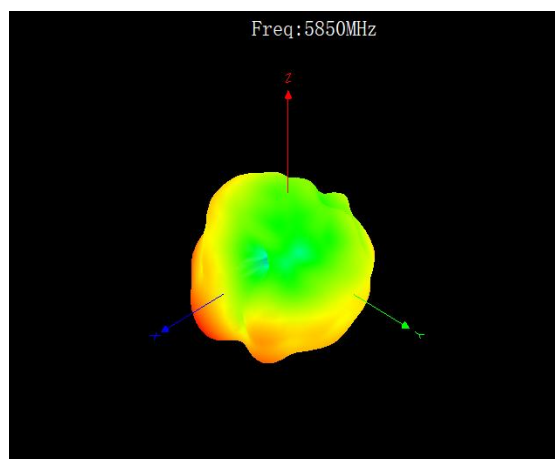
5150MHz



5350MHz

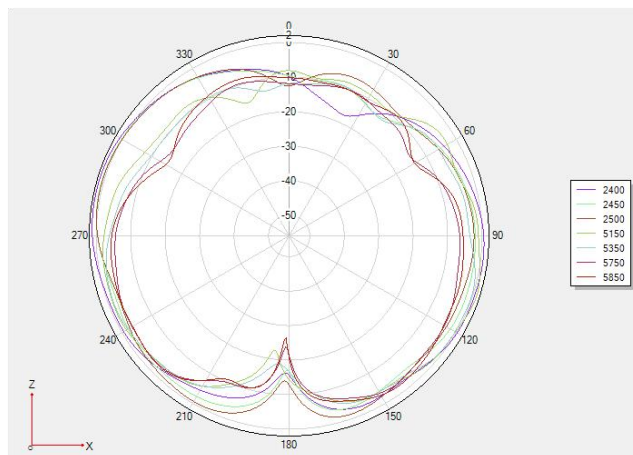


5750MHz

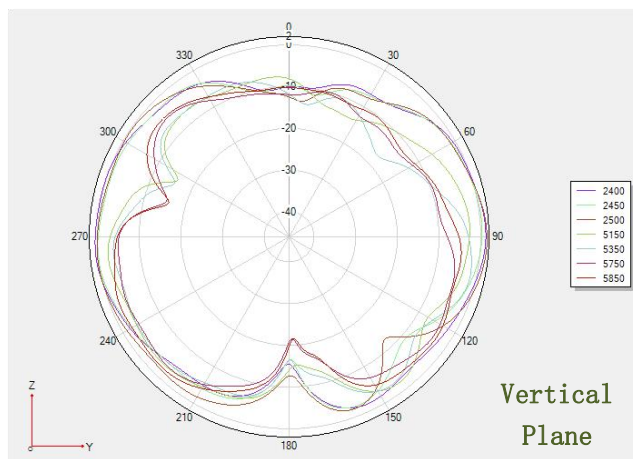


5850MHz

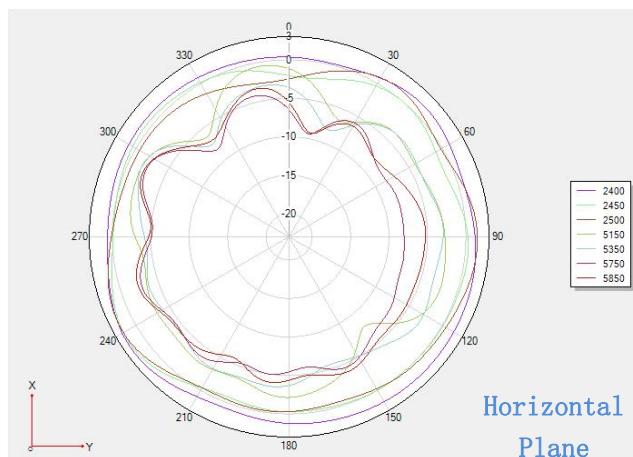
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

