

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称 2.4G W57 White Antenna

PRODUCT NAME: L=125mm+Port

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C125W2D2620A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2022/3/12	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	King	2022-3-12

Content

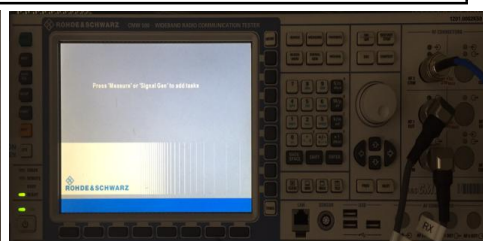
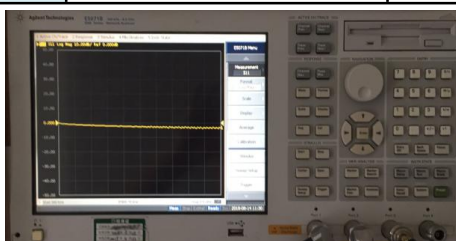
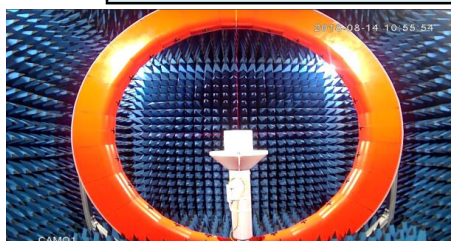
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	70.3x9,L125	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 1.92	
Polarization	Linear Polarization	
Gain	2 ± 0.5	dBi
Efficiency	>60	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	$-20^{\circ}\text{C}\sim +85^{\circ}\text{C}$	
Storage Temp	$-20^{\circ}\text{C}\sim +50^{\circ}\text{C}$	
Waterproof level	IP66	

2. Test Items and Equipment

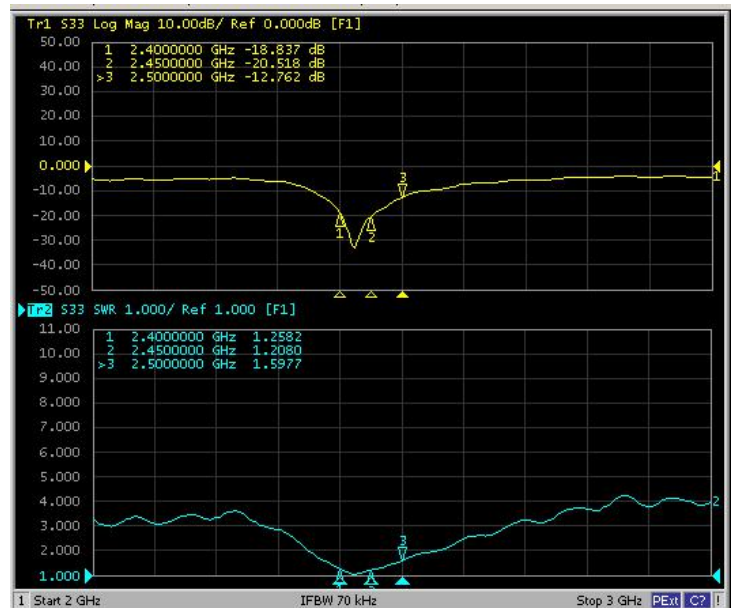
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave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



3. S Parameter

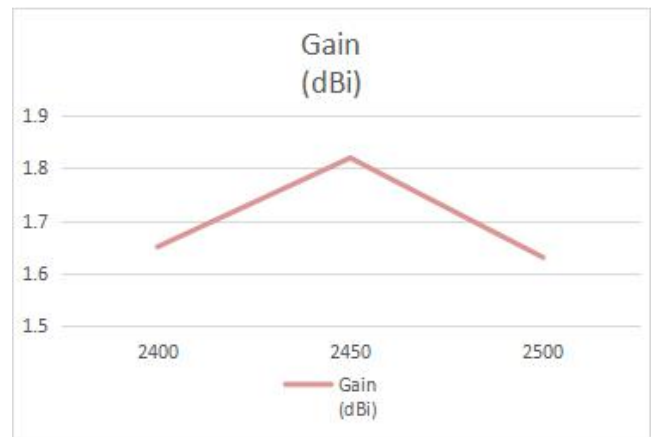
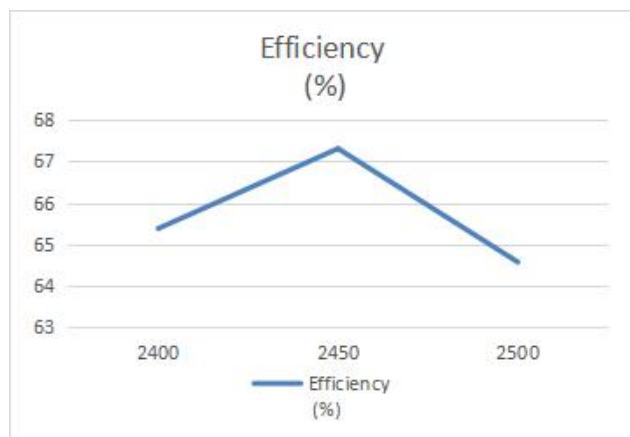
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-18.83	1.25
2450	-20.51	1.20
2500	-12.76	1.59

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



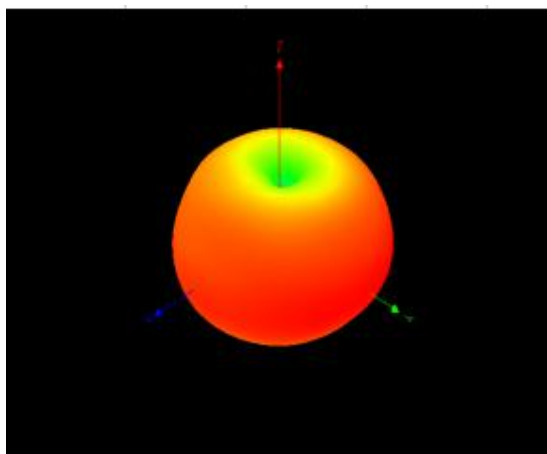
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	65.38	67.31	64.57
Gain (dBi)	1.65	1.82	1.63

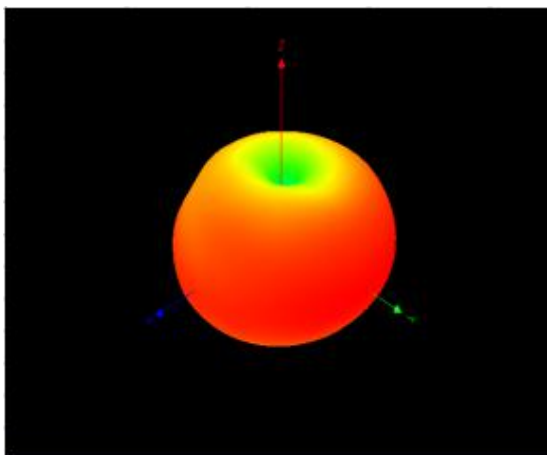


5. Radiation Pattern

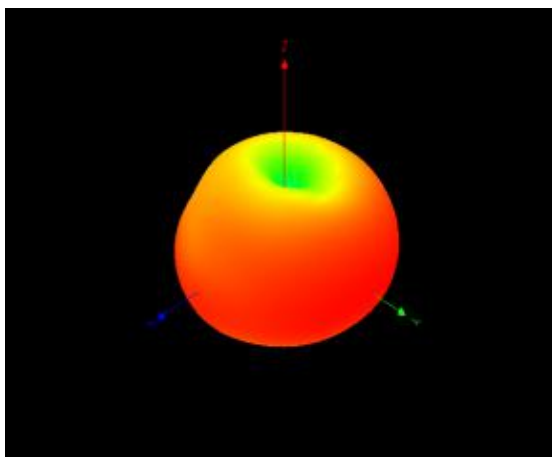
5-1 Antenna 3D Radiation Pattern



2400MHz

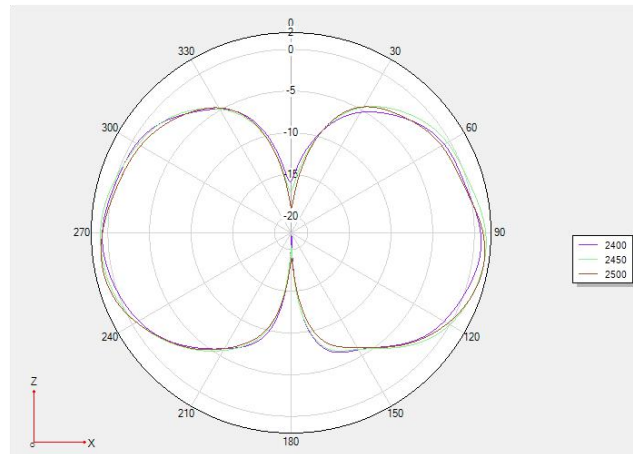


2450MHz

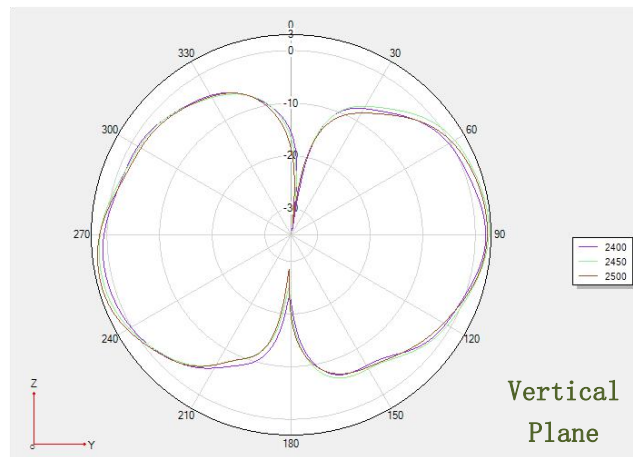


2500MHz

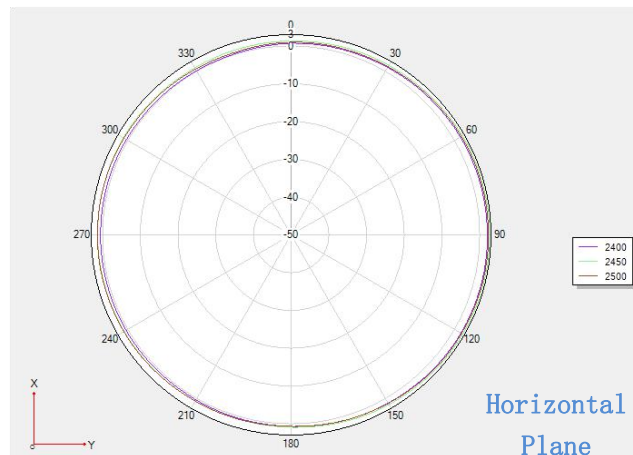
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

