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:	Wing	
APPROVED BY:	东莞市优比电子有限公司 工程专用章	
DATE:	2022/3/12	

Modification History

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

Content

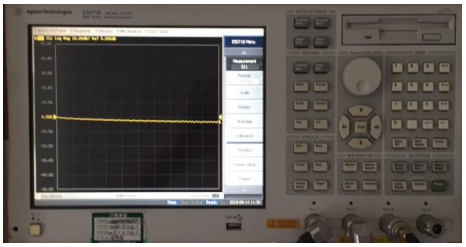
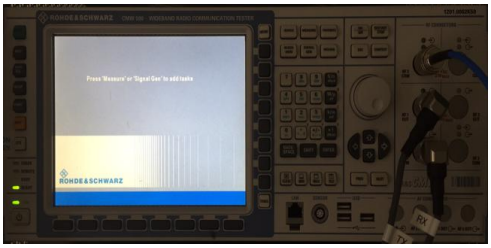
ltem ***Description***

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℃~+85℃	
Storage Temp	-20℃~+50℃	
Waterproof level	IP66	

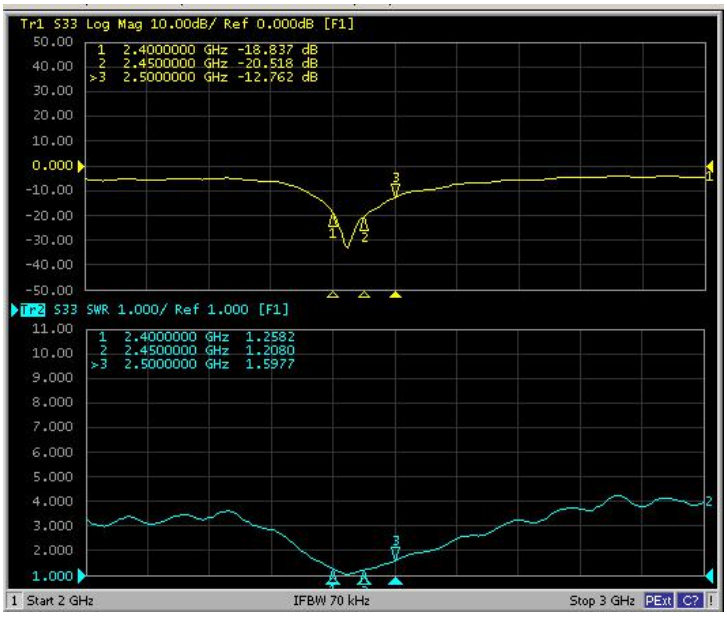
2.Test Items and Equipment

	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

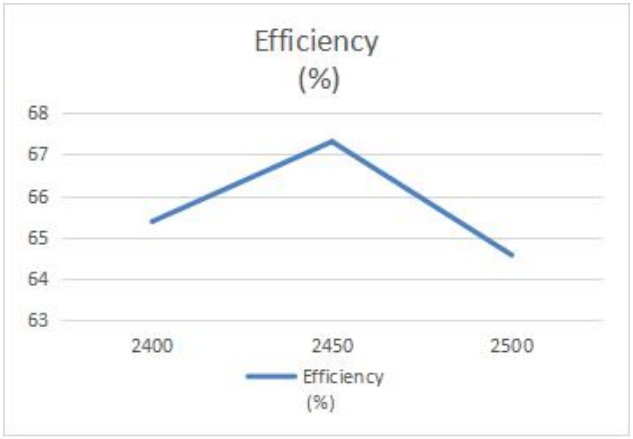
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-18.83	1.25
2450	-20.51	1.20
2500	-12.76	1.59

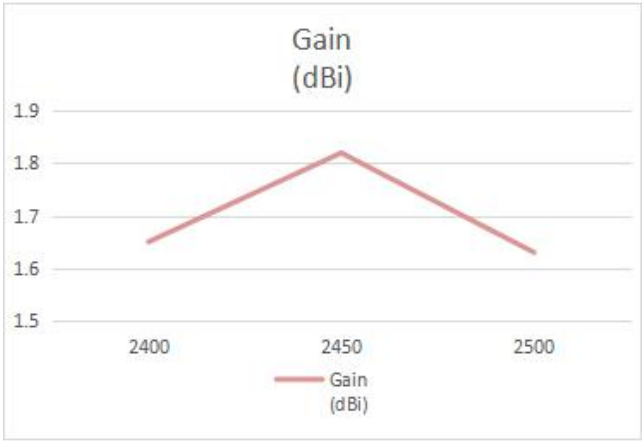


* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
RL=20*log10[(VSWR+1)/(VSWR-1)

4. Efficiency and Gain

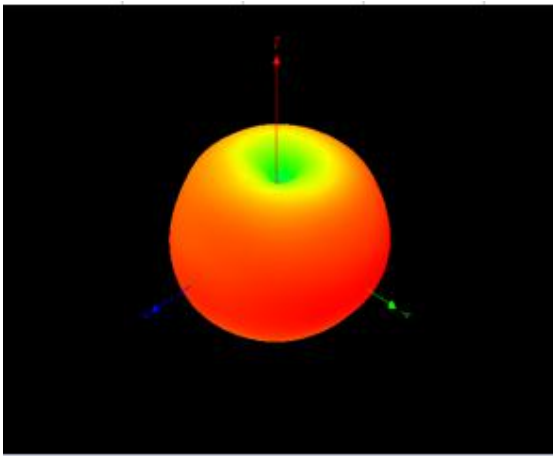
Frequency (MHz)	2400	2450	2500
Efficiency (%)	65.38	67.31	64.57
Gain (dBi)	1.65	1.82	1.63



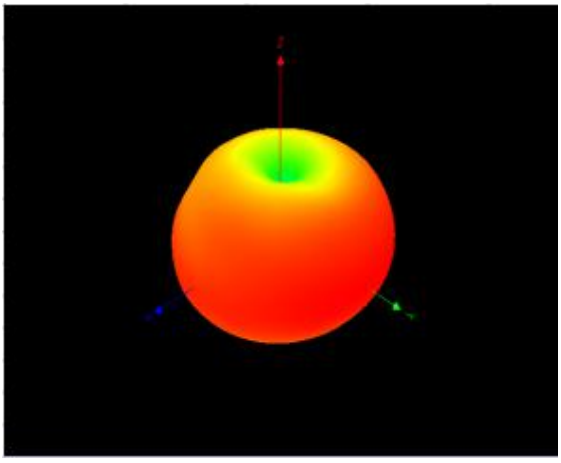


5. Radiation Pattern

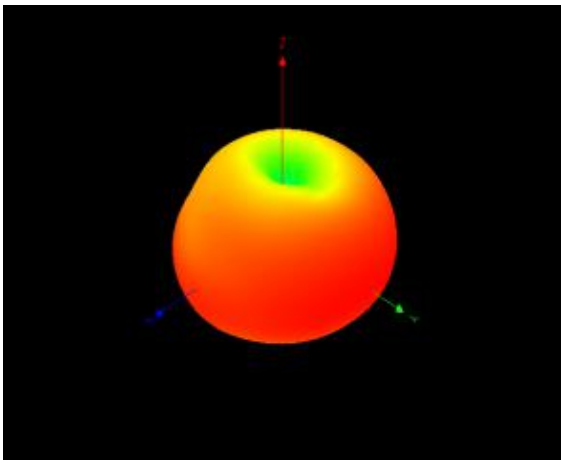
5-1 Antenna 3D Radiation Pattern



2400MHz

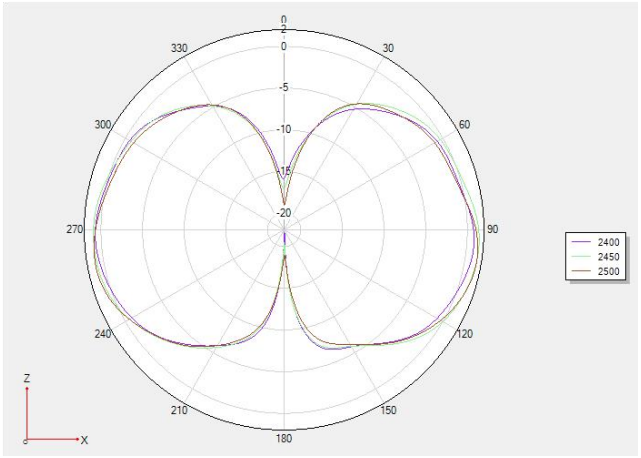


2450MHz

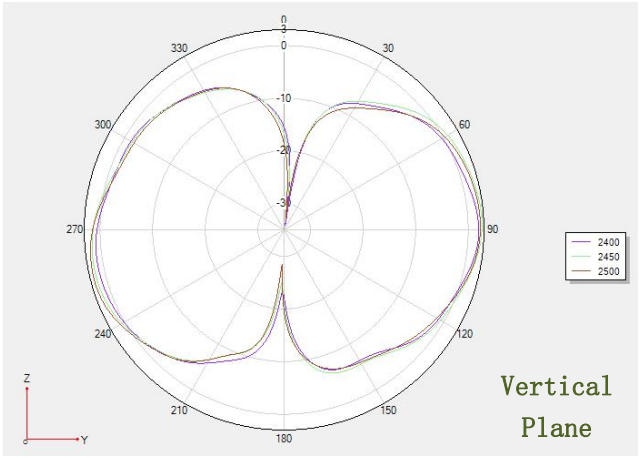


2500MHz

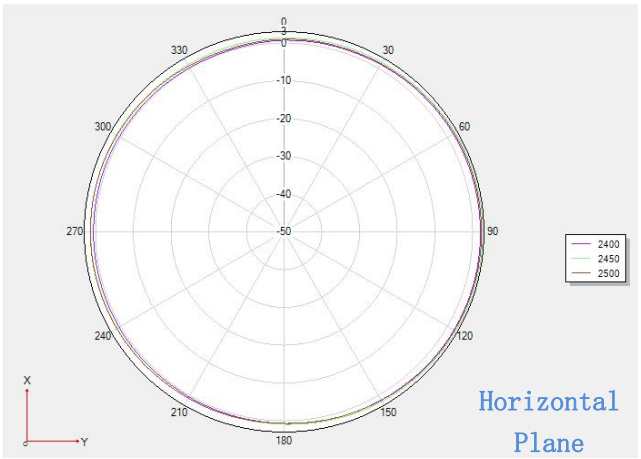
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification: