

# 承 认 书

## APPROVAL SHEET

客户名称

CUSTOMER NAME:

产品名称 2.4G W71 白色天线

PRODUCT NAME: L=320mm+端子

客户料号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02C330W3D4956A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Sam	
APPROVED BY:	 Changxing. Liu	
DATE:	2023-09-19	

### Modification History

Version	Content Revision	Issued by	Date
A	Original version	Sam	2023-09-19

## *Content*

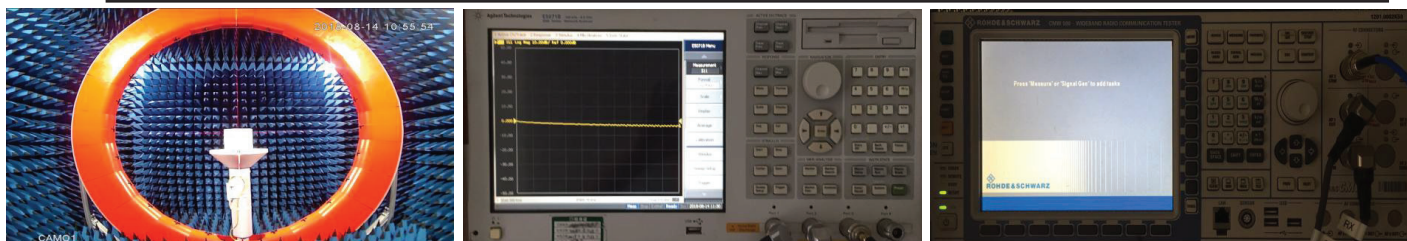
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification
7.-----	Packaging

## 1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	12.9x105,L=320	mm
Frequency	2400-2500	MHz
Impedance	50	$\Omega$
VSWR	1.57	
Polarization	Linear Polarization	
Gain	3.2	dBi
Efficiency	>50	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-20 $^{\circ}$ C~+65 $^{\circ}$ C	
Storage Temp	-20 $^{\circ}$ C~+50 $^{\circ}$ C	

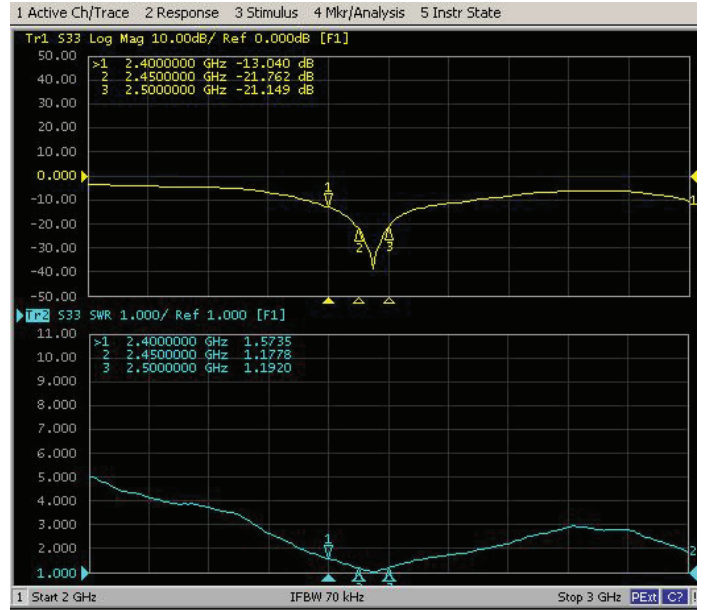
## 2. Test Items and Equipment

	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

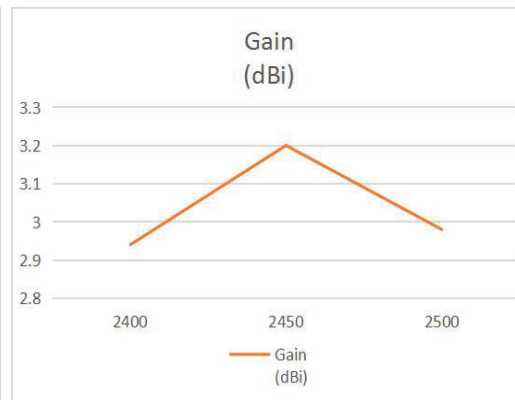
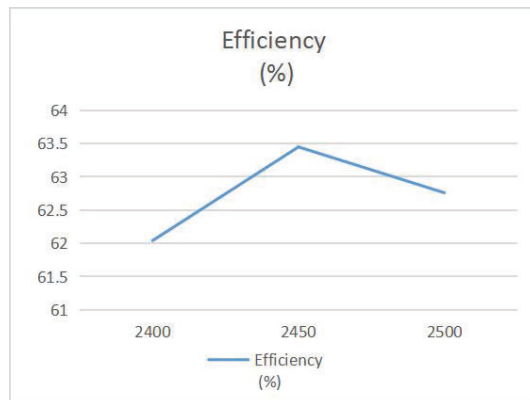
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-13.04	1.57
2450	-21.76	1.17
2500	-21.14	1.19



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

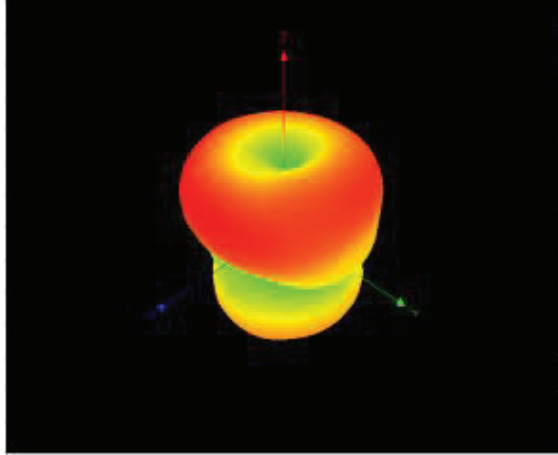
### 4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	62.04	63.45	62.76
Gain (dBi)	2.94	3.2	2.98

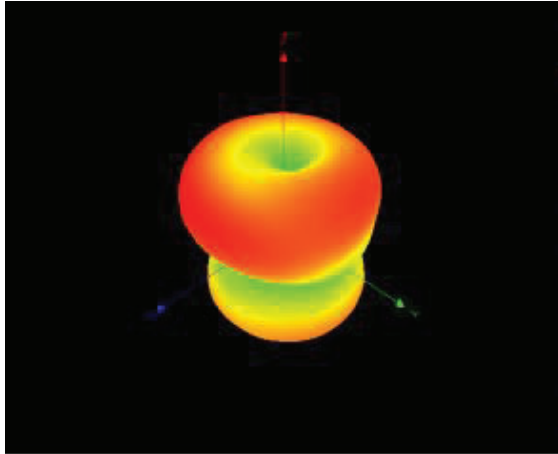


## 5. Radiation Pattern

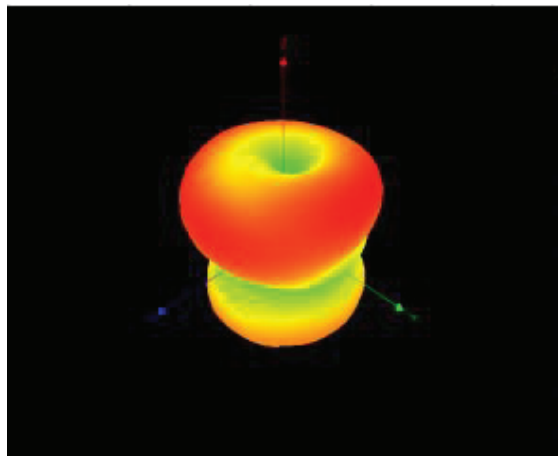
### 5-1 Antenna 3D Radiation Pattern



2400MHz

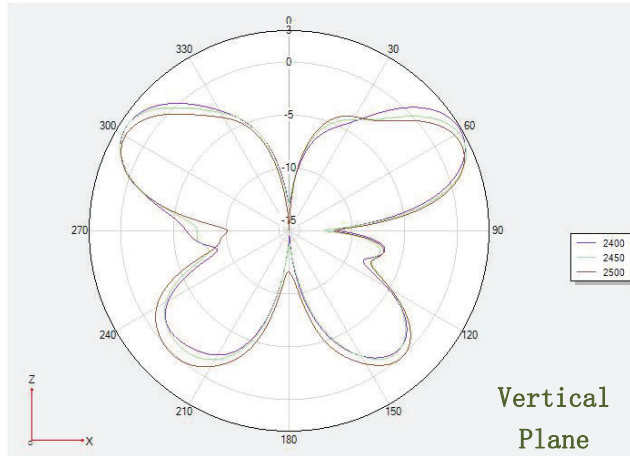


2450MHz

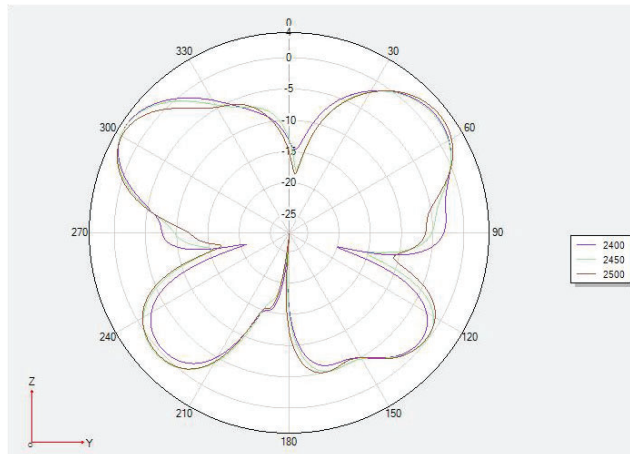


2500MHz

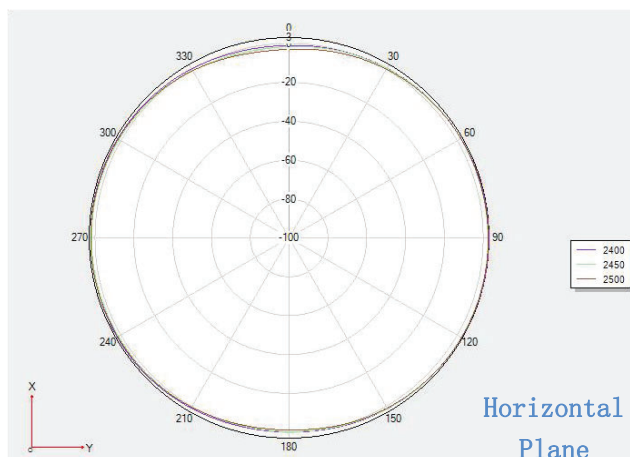
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D



## 6. Mechanical Specification:

