

承 认 书

APPROVAL SHEET

客户名称

CUSTOMER NAME:

产品名称

PRODUCT NAME: 2.4/5.8G 大 SMA 公头母针圆形黑色天线

客户料号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02S58B5D15A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2023/6/12	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2023-6-12

Content

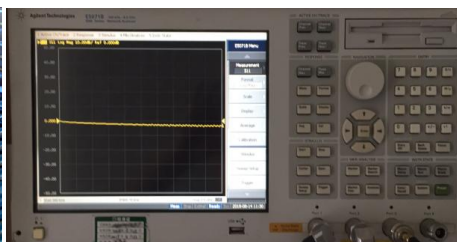
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification

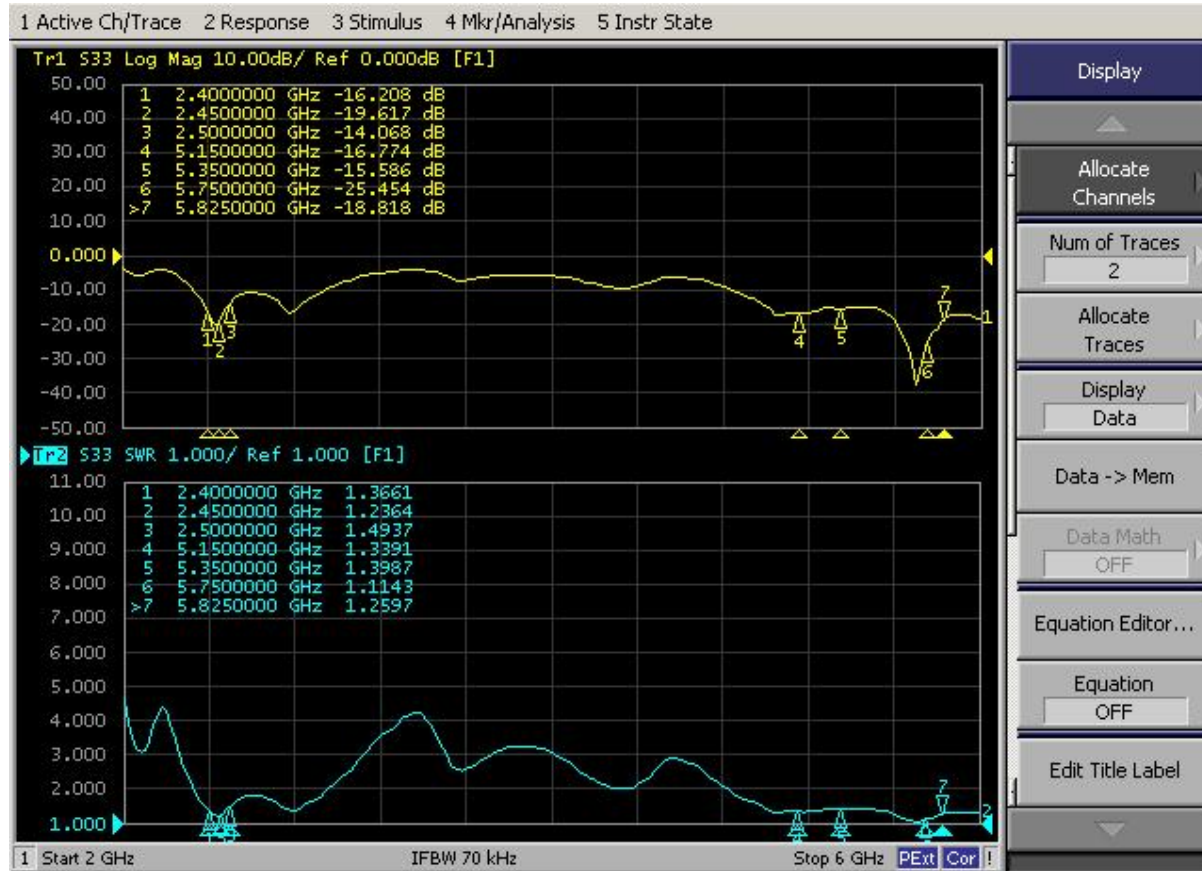
Characteristics	Specifications	Unit
Outline Dimensions	∅13x195	mm
Frequency	2400~2500/5150-5825	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	4 ± 0.5	dBi
Efficiency	≥ 60	%
Connector Type	SMA Male (center pin)	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+85℃	

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)

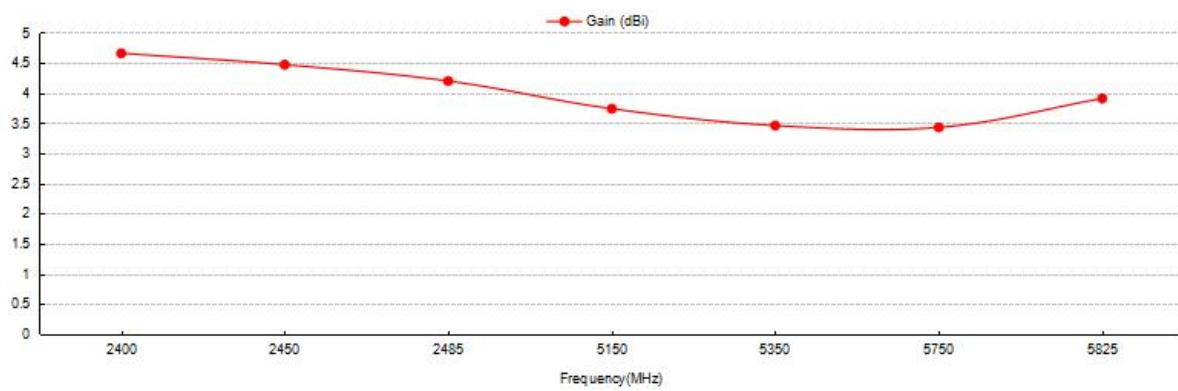
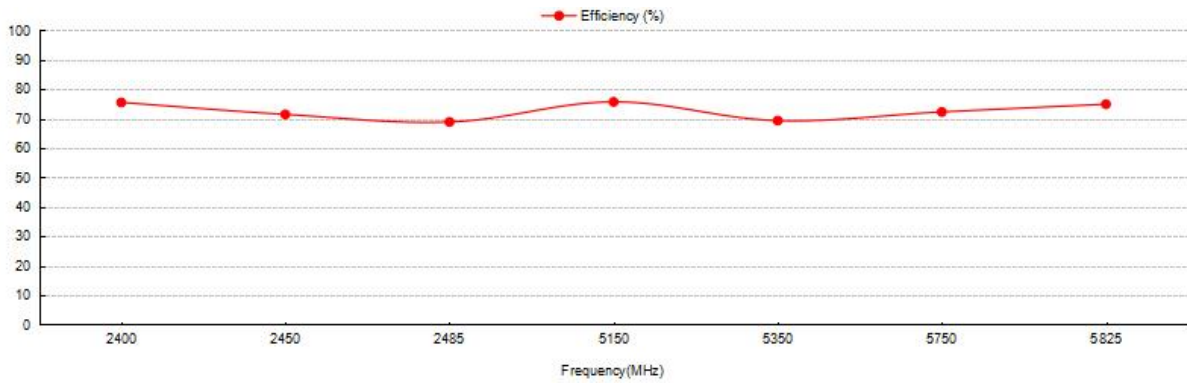


3. S Parameter



Frequency (MHz)	Return Loss (dB)	VSWR
2400	-16.20	1.36
2450	-19.61	1.23
2500	-14.06	1.49
5150	-16.77	1.33
5350	-15.58	1.39
5750	-25.45	1.11
5825	-18.81	1.25

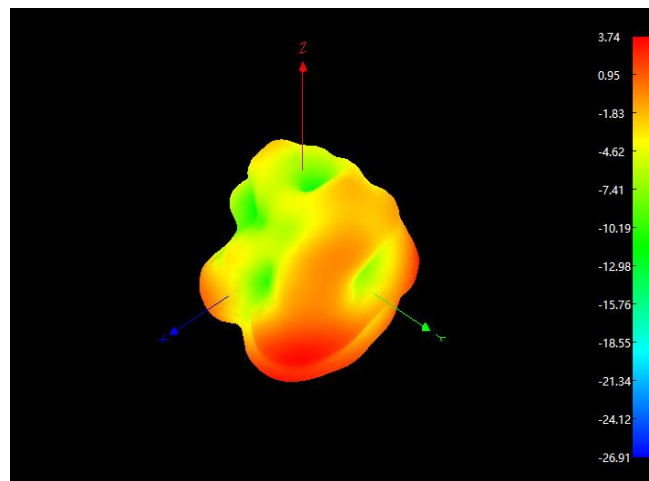
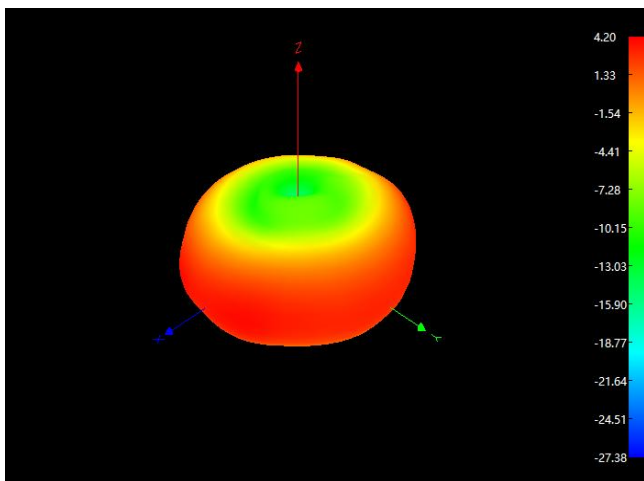
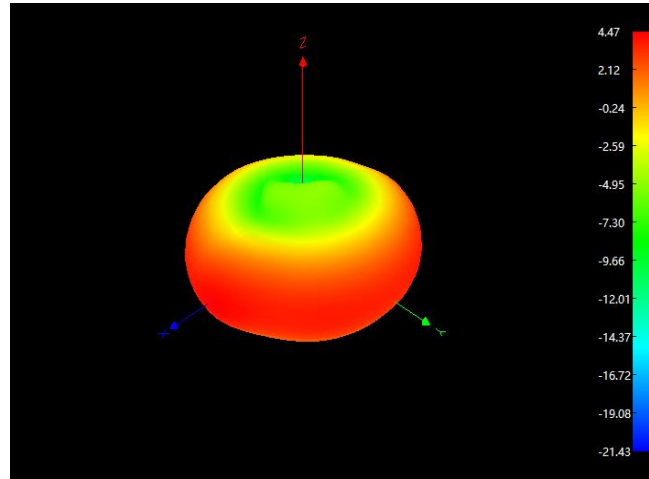
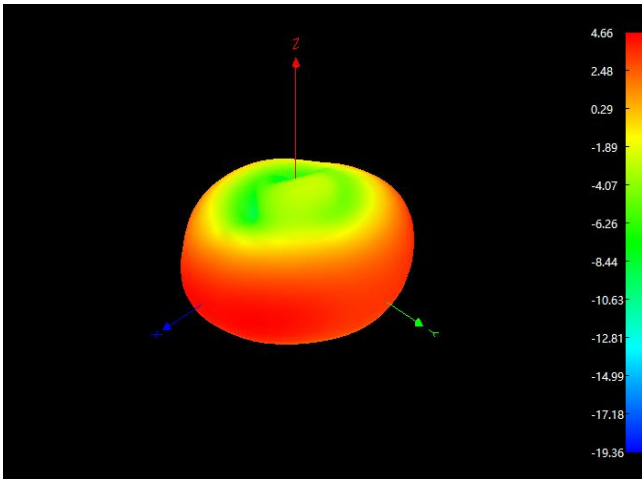
4. Efficiency and Gain

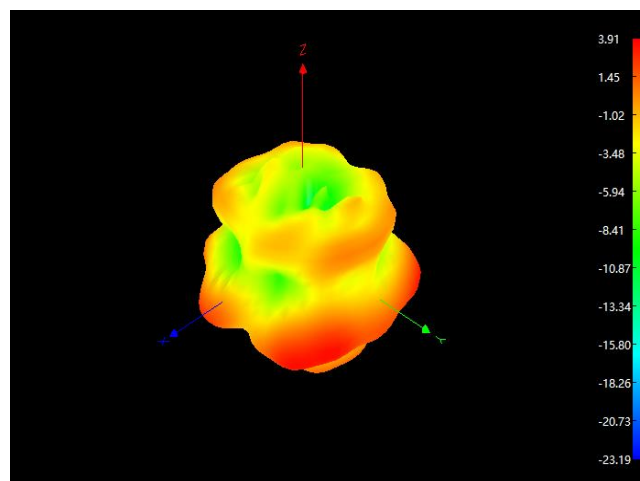
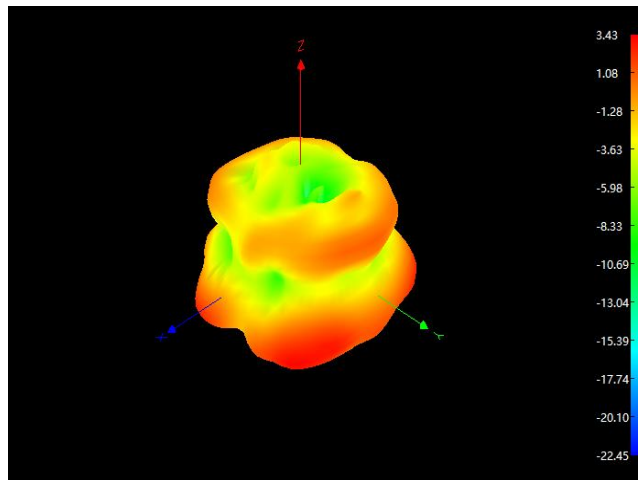
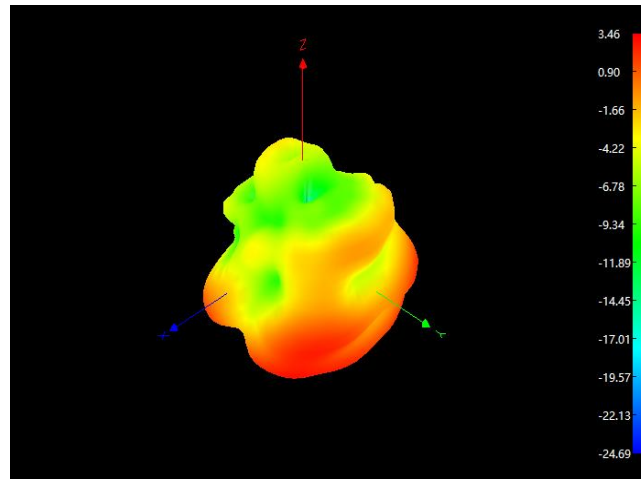


Frequency (MHz)	2400	2450	2485	5150	5350	5750	5825
Gain (dBi)	4.66	4.47	4.2	3.74	3.46	3.43	3.91
Efficiency (%)	75.51	71.45	68.87	75.7	69.34	72.28	74.92

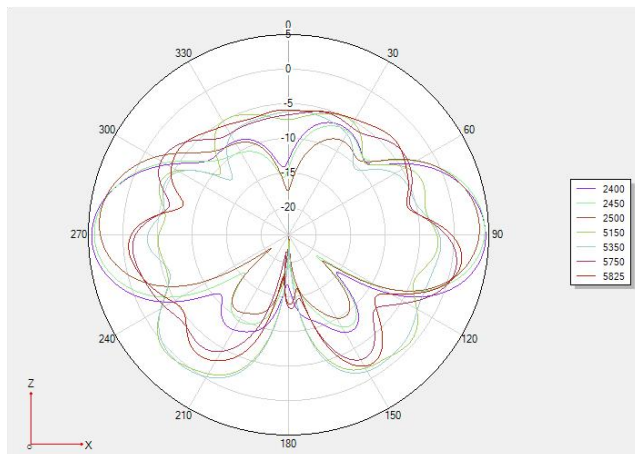
5. Radiation Pattern

5-1 Antenna 3D Radiation Pattern

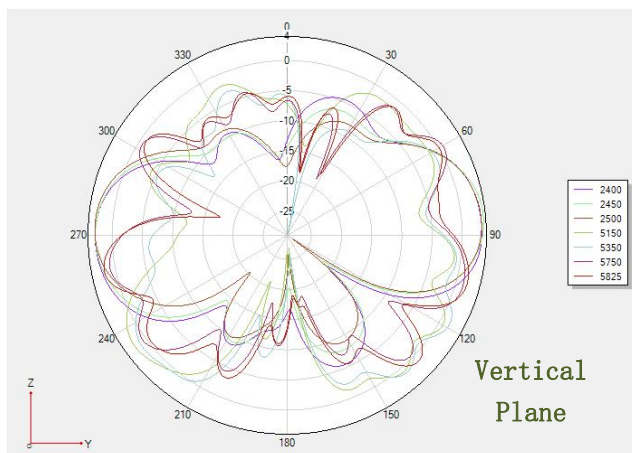




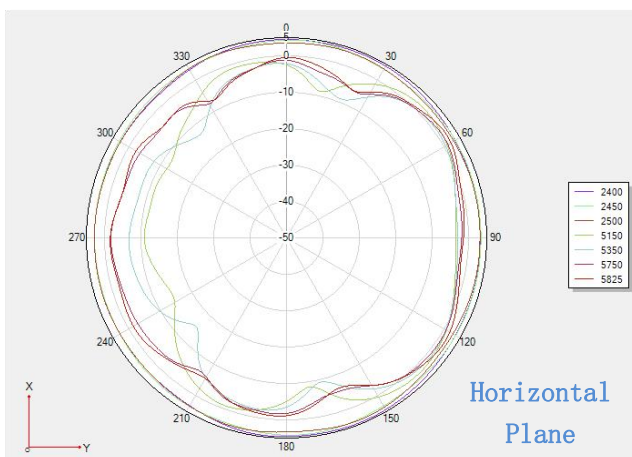
5-2 Antenna 2D Radiation Pattern



Phi 0 2D 图



Phi 90 2D 图



Theta 90 2D 图

6. Mechanical Specification

