

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称 2.4/5.8G 小 SMA 公头母针-小 5dBi 黑色天线

PRODUCT NAME:

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB02S108B5D1415A REV:A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2025/9/1	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2025-9-1

Content

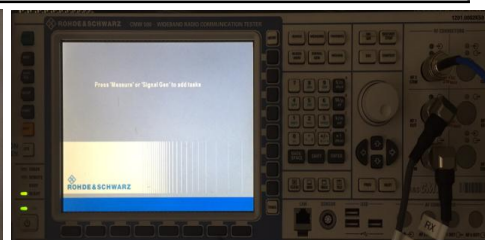
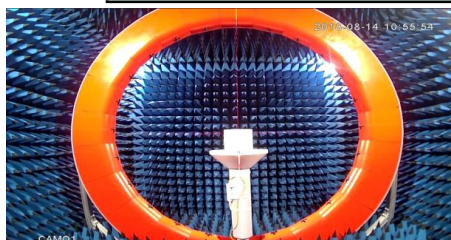
<i>Item</i>	<i>Description</i>
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5.-----	Radiation Pattern
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	Ø6*9.35*172	mm
Frequency	2400-2500/5150-5850	MHz
Impedance	50	Ω
VSWR	< 1.92	
Polarization	Linear Polarization	
Gain	3±0.5	dBi
Efficiency	>50	%
Connector Type	SMA plug and socket	
Operating temperature	-40℃~+85℃	
Storage Temp	-40℃~+85℃	

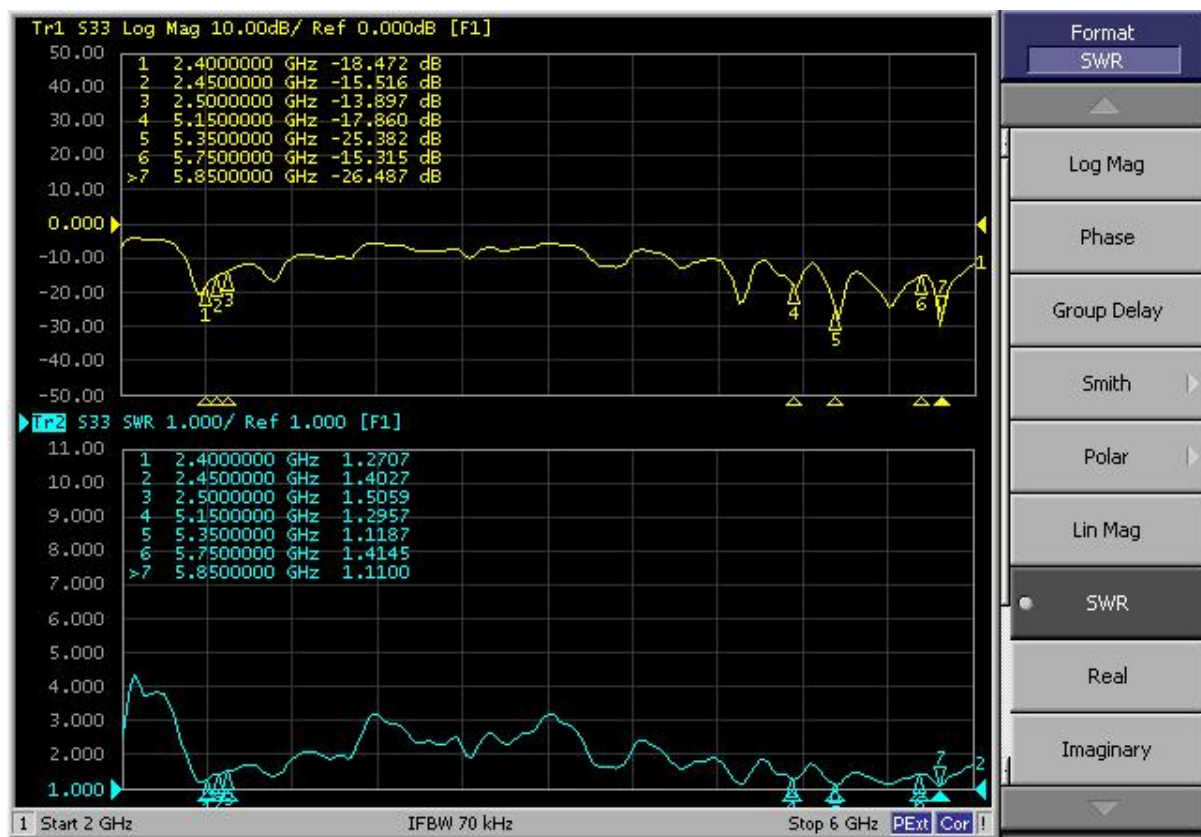
2. Test Items and Equipment

	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_4G

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-18.47	1.27
2450	-15.51	1.40
2500	-13.89	1.50
5150	-17.86	1.29
5350	-25.38	1.11
5750	-15.31	1.41
5850	-26.48	1.11



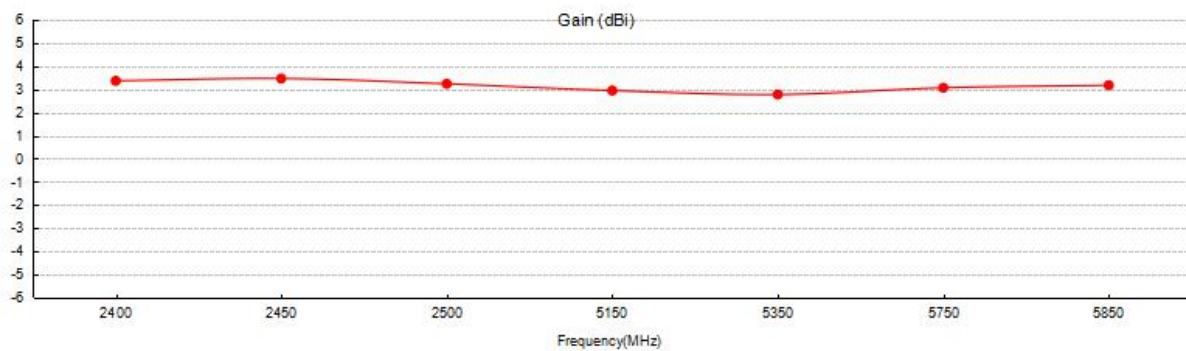
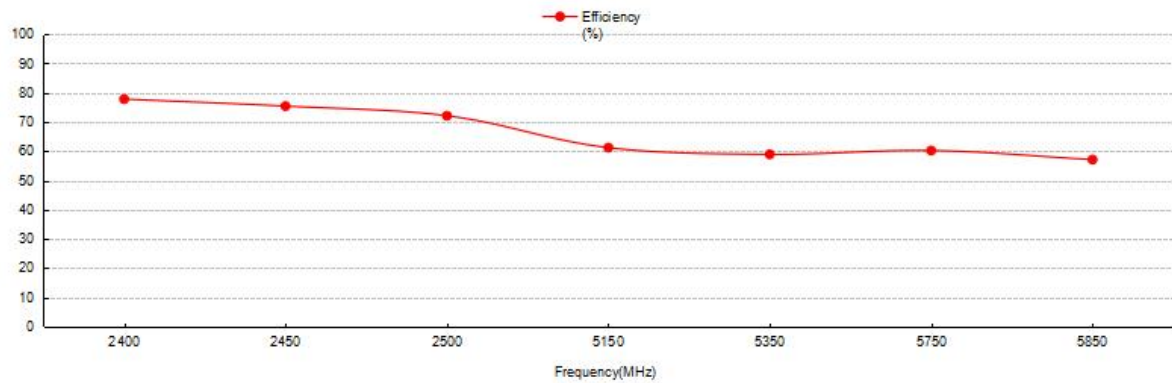
* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

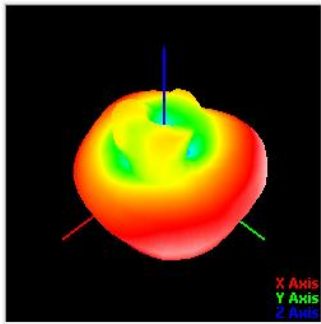
$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

4. Efficiency and Gain

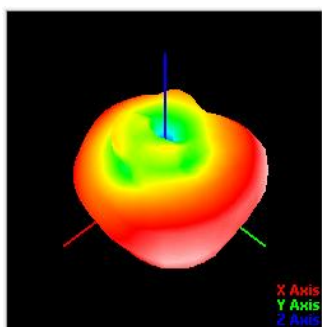
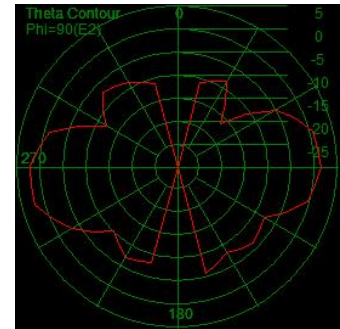
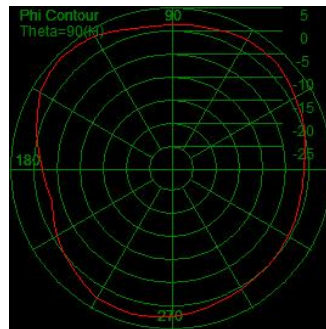
Frequency (MHz)	2400	2450	2500	5150	5350	5750	5850
Efficiency (%)	77.8	75.4	72.1	61.2	58.9	60.2	57.1
Gain (dBi)	3.36	3.46	3.23	2.94	2.77	3.06	3.17



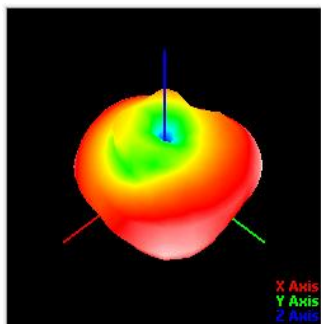
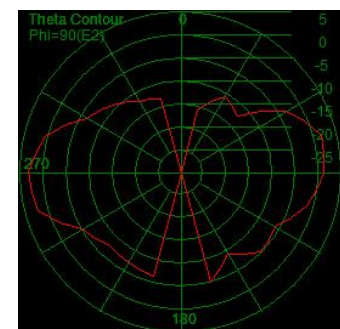
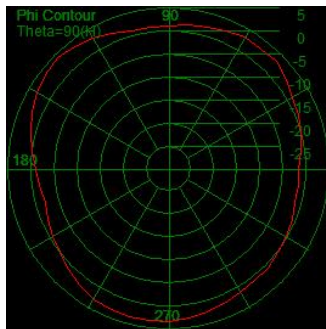
5. Antenna2D&3D Radiation Pattern



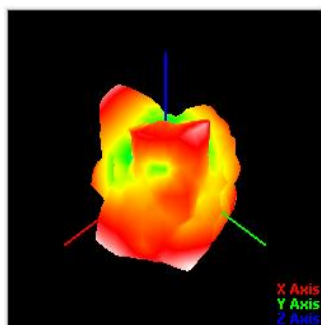
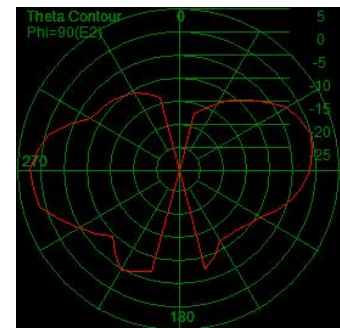
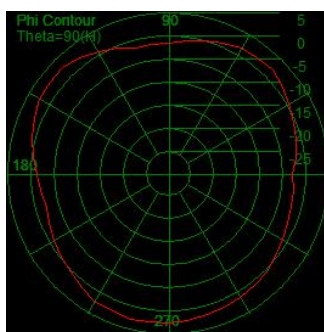
2400MHz



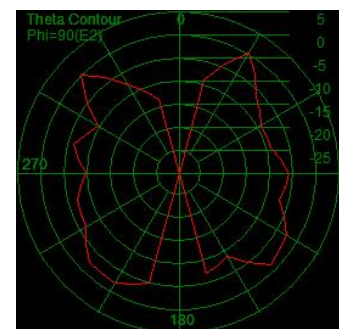
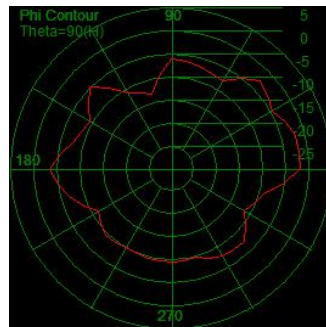
2450MHz

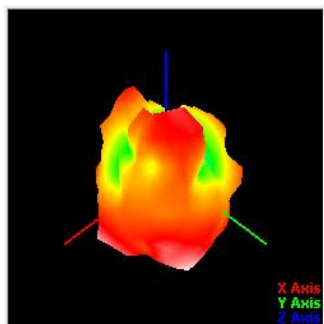


2500MHz

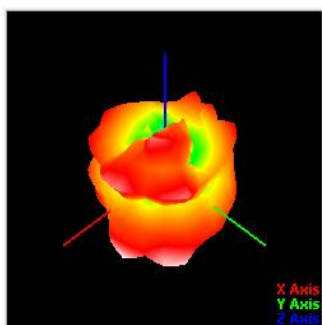
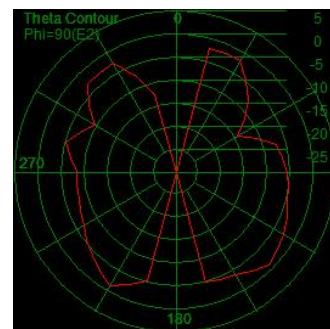
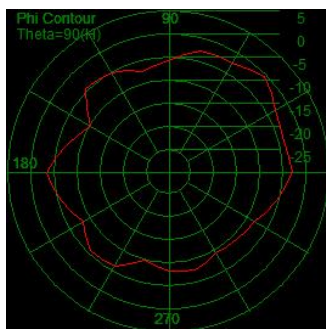


5150MHz

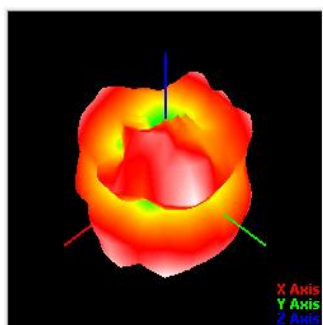
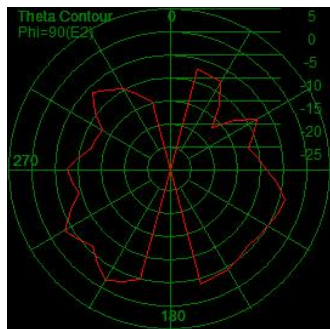
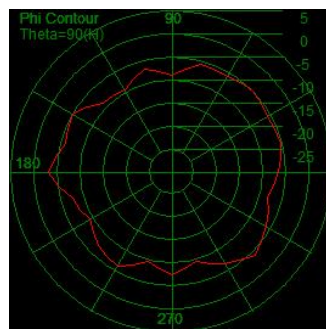




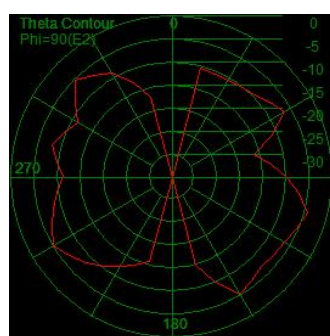
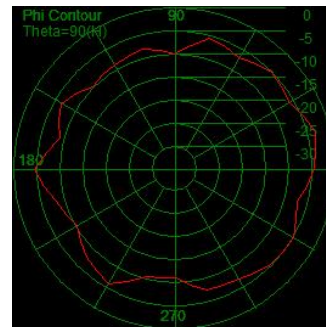
5350MHz



5750MHz



5850MHz



6.Mechanical Specification

