

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4/5.8G FPC 内置天线

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01NF1D1719A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Lina 	
APPROVED BY:	Zhi jun. zhu	
DATE:	2026-01-29	



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co.,Ltd

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2026-01-29

Content

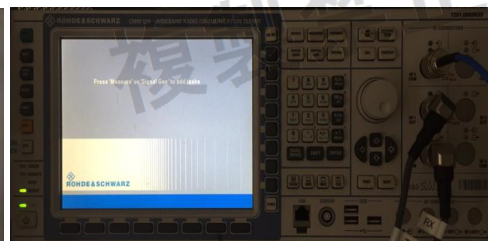
<i>Item</i>	<i>Description</i>
1.	Electrical Specification
2.	Test Items and Equipment
3.	S Parameter
4.	Efficiency and Gain
5.	Radiation Pattern
6.	Mechanical Specification

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	16*11.5	mm
Frequency	2400-2500/5150-5850	MHz
Impedance	50	Ω
SWR	<2.0	dB
Polarization	Linear Polarization	
AVG Gain	3.18	dBi
Efficiency	>50	%
Connector Type	/	
Operating temperature	-20℃~+70℃	
Storage Temp	-20℃~+70℃	

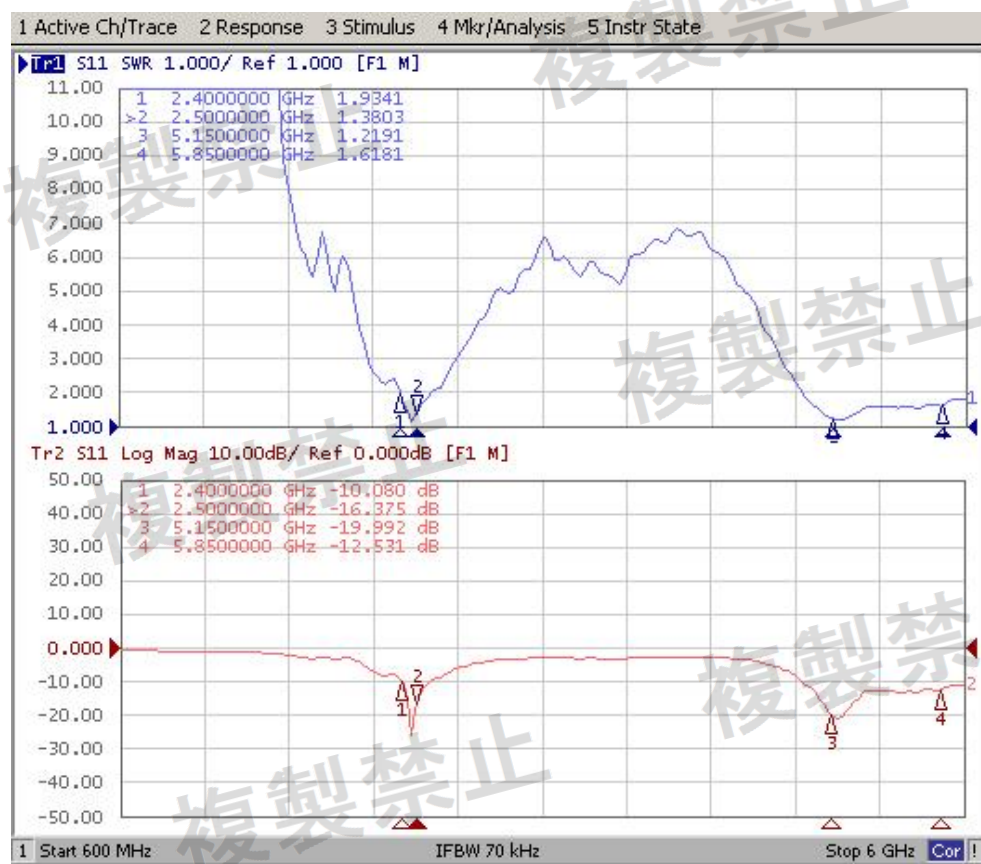
2. Test Items and Equipment

	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)	SWR
2400	-10.08	1.93
2500	-16.37	1.38
5150	-19.99	1.21
5850	-12.53	1.61



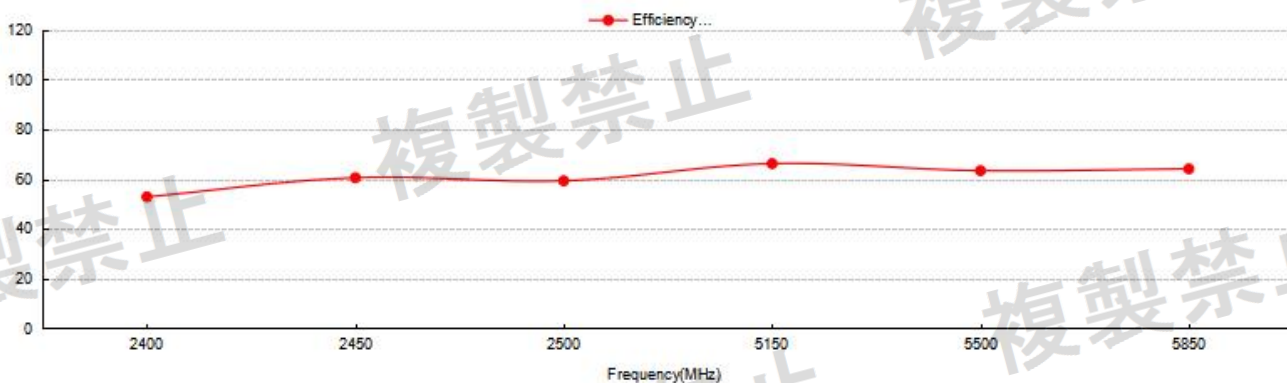
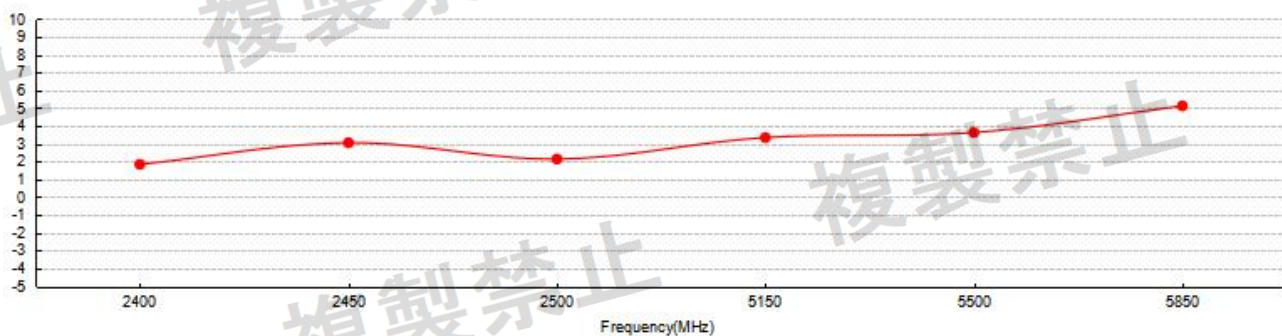
* Voltage Standing Wave Ratio(VSWR)

Return Loss(RL)

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

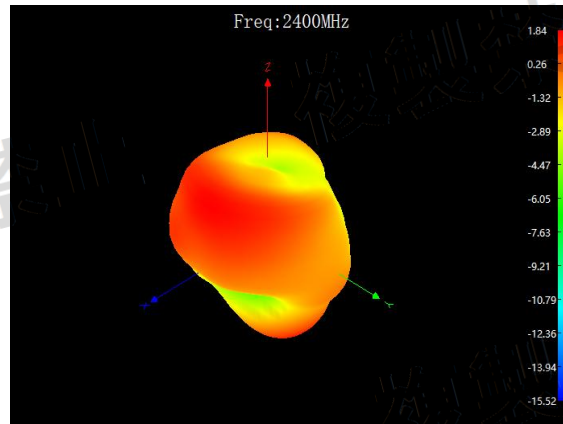
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	52.85	60.53	59.31	66.22	63.39	64.12
Gain(dBi)	1.84	3.05	2.14	3.34	3.63	5.12

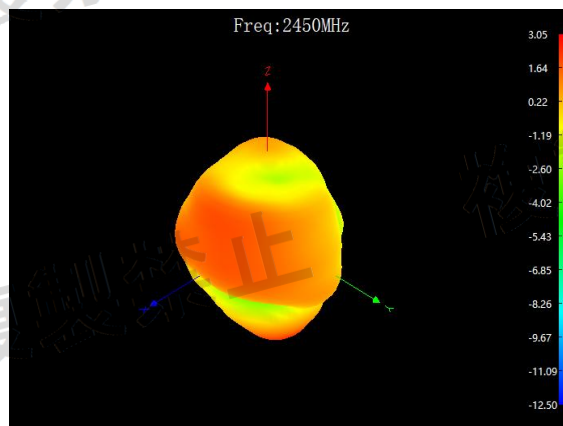


5. Radiation Pattern

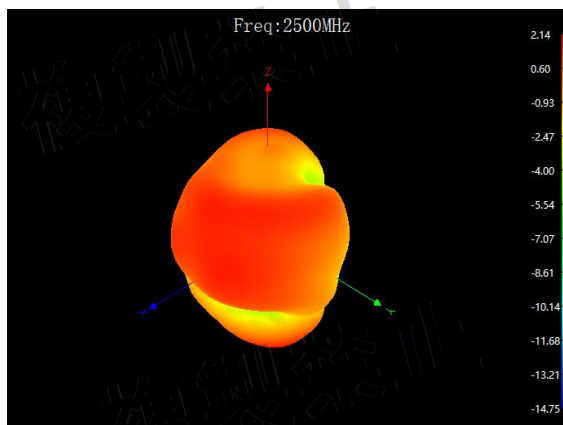
5-1 Antenna 3D Radiation Pattern



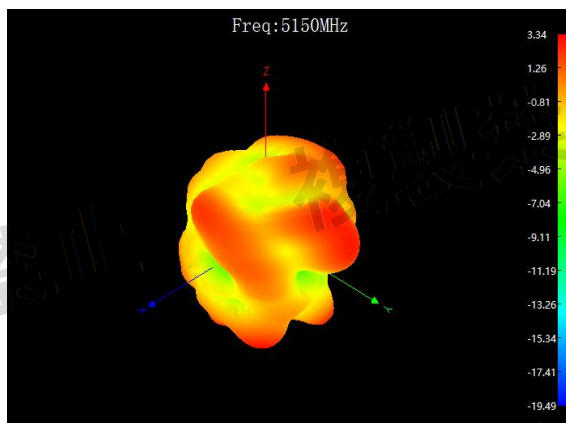
2400MHz



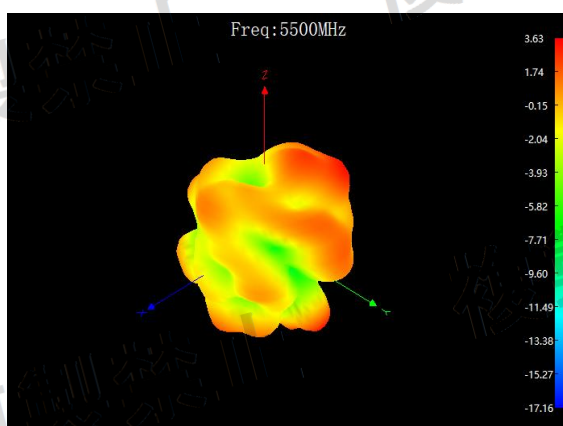
2450MHz



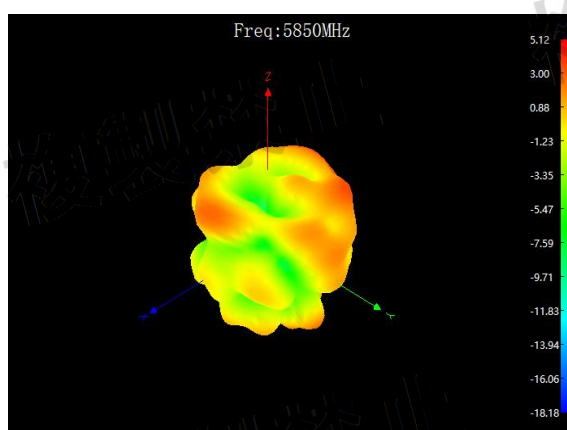
2500MHz



5150MHz

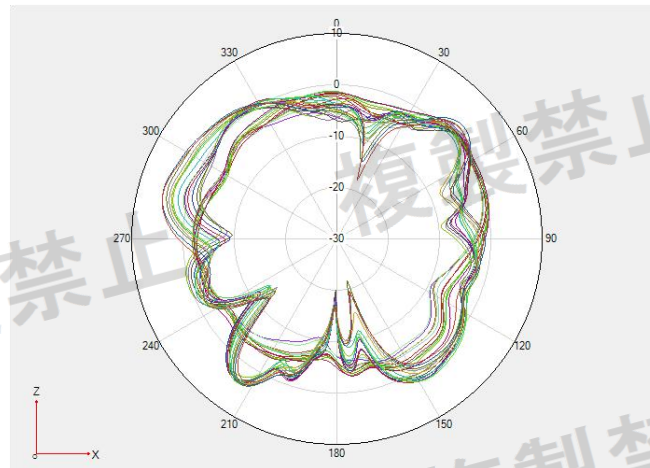


5500MHz

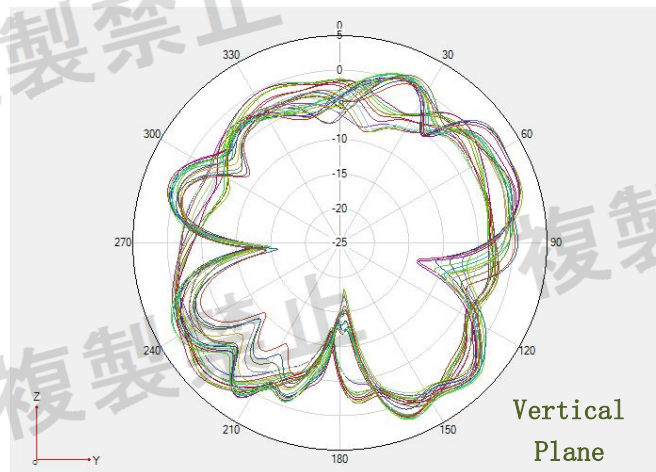


5850MHz

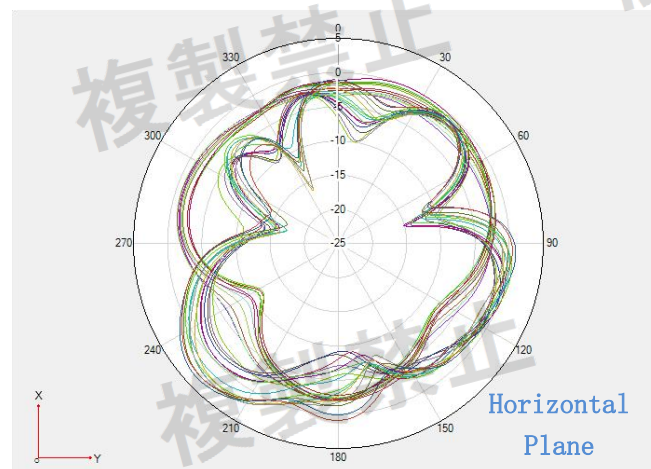
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90

6. Mechanical Specification

