



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

2.4/5.8G 钢片内置天线 L=200mm

PRODUCT

NAME:

+1.13 白色线+一代端子 线材烤套管

客 户 料 号

CUSTOMER

P/N:

DT31

优比电子料号

Youbi

P/N:

UB01C200

REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:		
APPROVED BY:		
DATE:	2024/9/27	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2024-8-19

Content

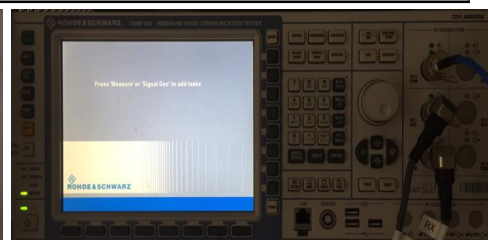
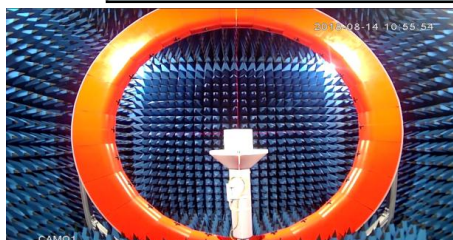
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification(单天线测试数据)

Characteristics	Specifications	Unit
Outline Dimensions	30x11x5.3x0.4,L200	mm
Frequency	2400-2500 / 5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 2.0	
Polarization	Linear Polarization	
Gain	2 REF @2.4G 5 REF @5.8G	dBi
Efficiency	> 40	%
Connector Type	RF 1	
Operating temperature	-40℃~+80℃	
Storage Temp	-40℃~+80℃	

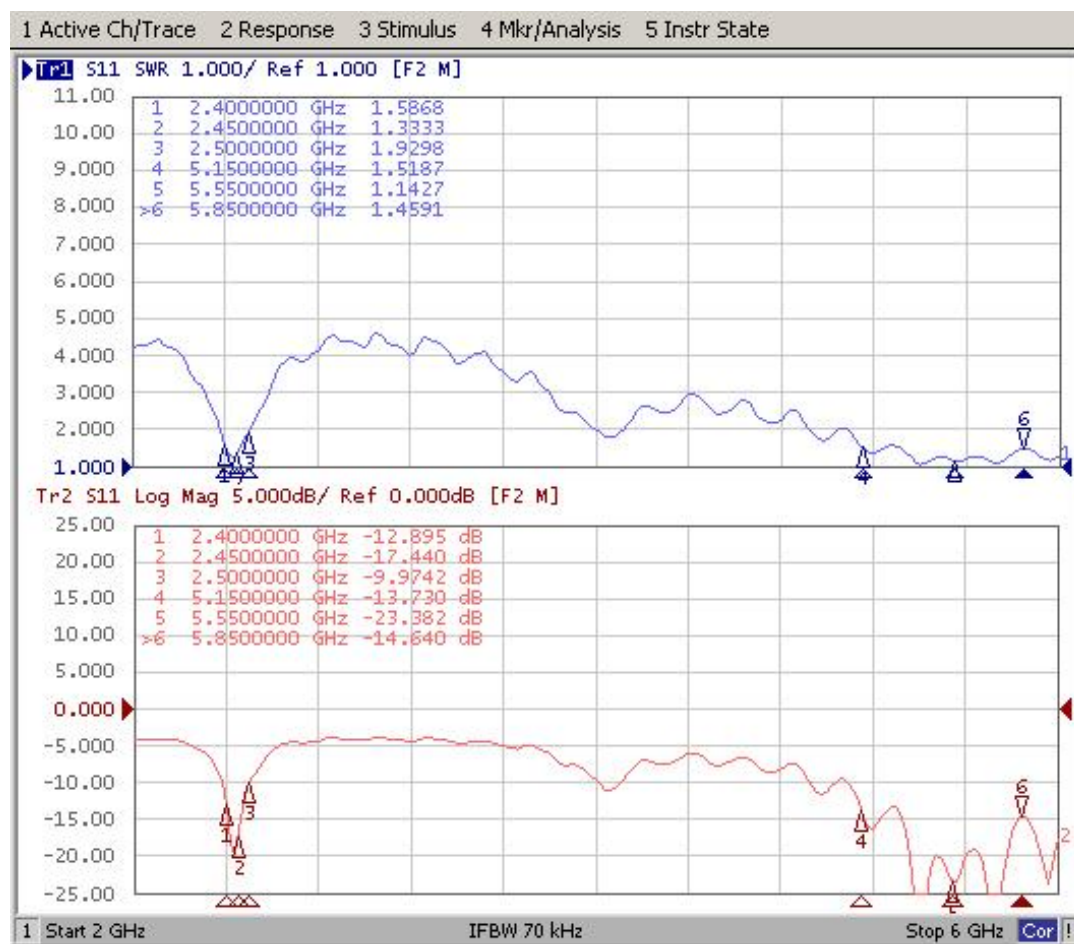
2. Test Items and Equipment

	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)



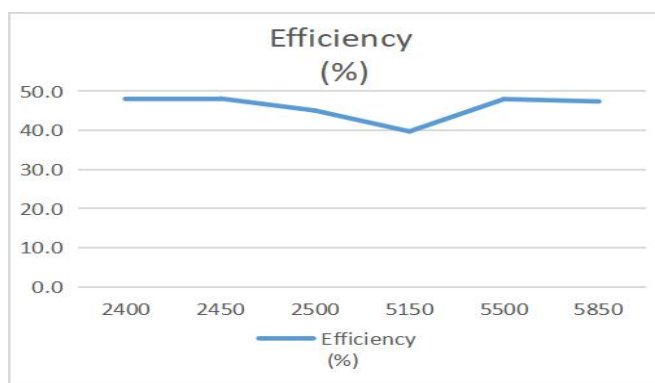
3. S Parameter (单天线测试数据)

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-12.89	1.58
2450	-17.44	1.33
2500	-9.97	1.92
5150	-13.73	1.51
5550	-23.38	1.14
5850	-14.64	1.45



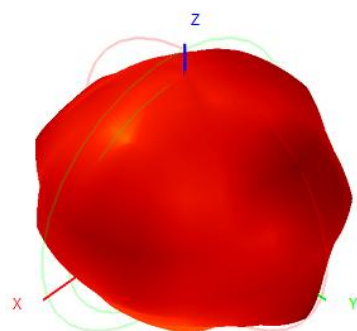
4. Efficiency and Gain (单天线测试数据)

Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	48.03	48.14	45.07	39.73	47.99	47.39
Gain (dBi)	2.09	1.90	1.45	3.89	4.63	6.59

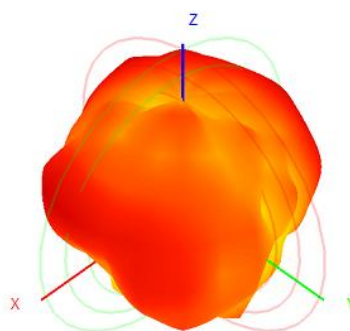


5. Radiation Pattern(单天线测试数据)

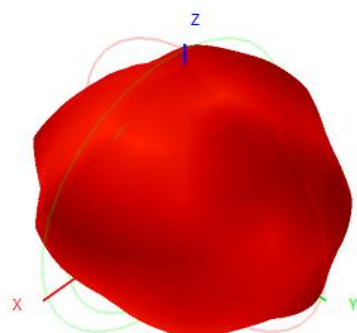
5-1 Antenna 3D Radiation Pattern



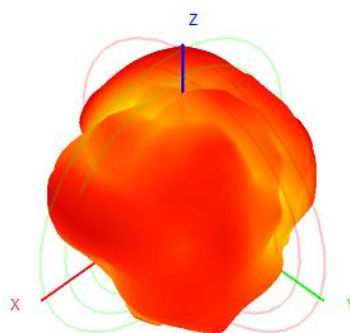
2400MHz



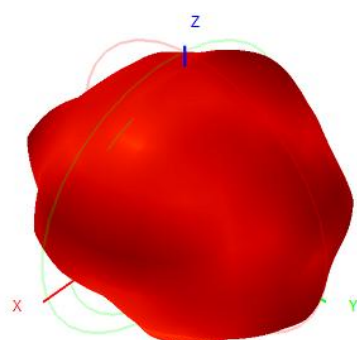
5150MHz



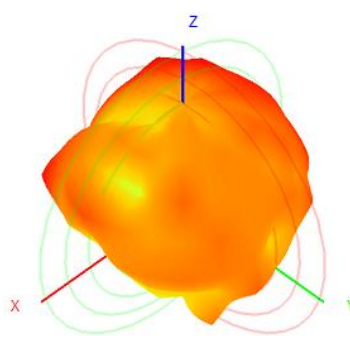
2450MHz



5500MHz



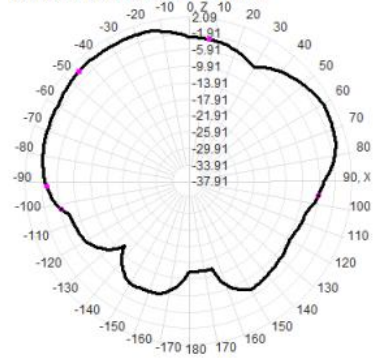
2500MHz



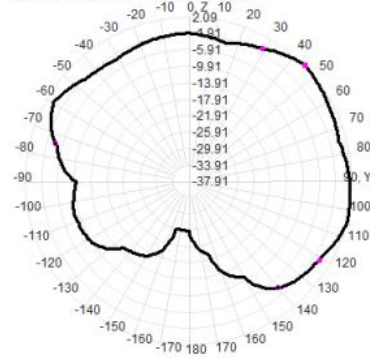
5850MHz

5-2 Antenna 2D Radiation Pattern

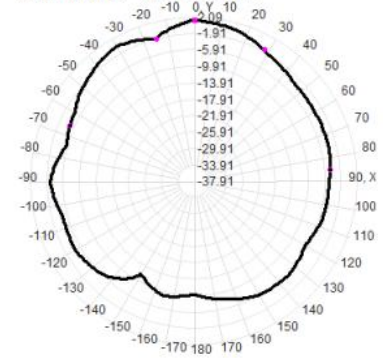
2400.0MHz Total(E1-XZ), Max=-0.01dBi



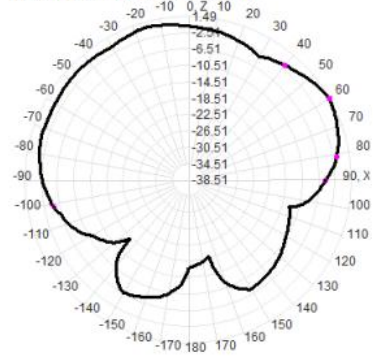
2400.0MHz Total(E2-YZ), Max= 2.09dBi



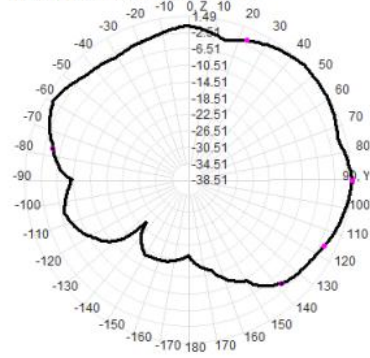
Total(H-XY), Max= 1.32dBi, CirD=13.32



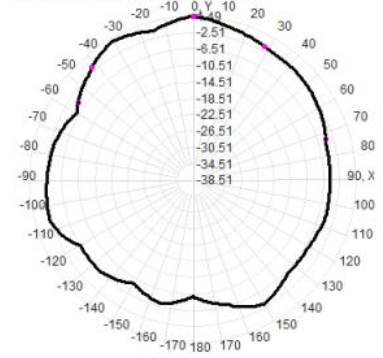
2450.0MHz Total(E1-XZ), Max= 1.22dBi



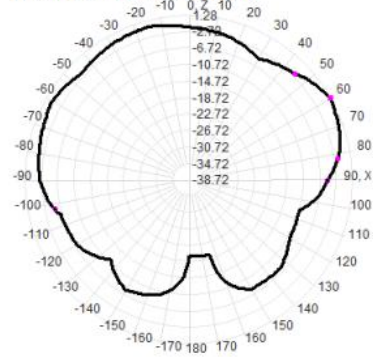
2450.0MHz Total(E2-YZ), Max= 1.49dBi



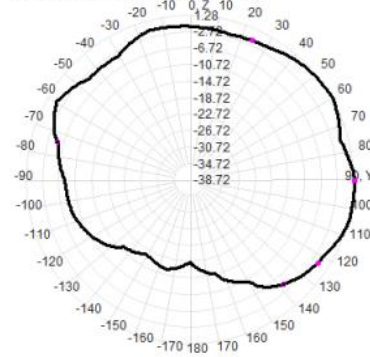
Total(H-XY), Max= 1.49dBi, CirD=11.60



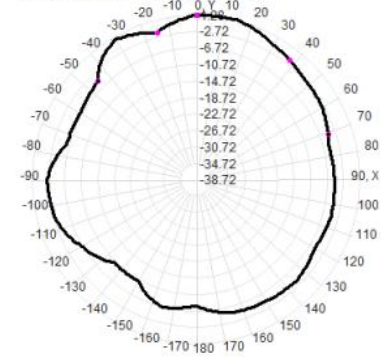
2500.0MHz Total(E1-XZ), Max= 0.92dBi



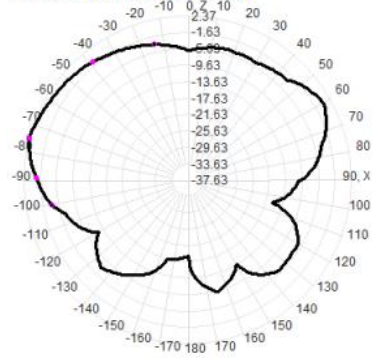
2500.0MHz Total(E2-YZ), Max= 1.28dBi



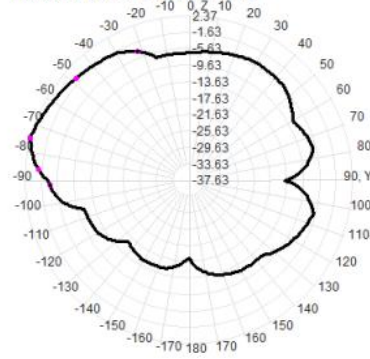
Total(H-XY), Max= 1.28dBi, CirD=11.77



5150.0MHz Total(E1-XZ), Max= 2.37dBi



5150.0MHz Total(E2-YZ), Max= 2.35dBi



Total(H-XY), Max= 0.46dBi, CirD=14.99

