

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4/5.8G 五金内置天线

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01NJ2D9a0A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy 	
APPROVED BY:	Changxing.Liu	
DATE:	2022/8/12	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2022-8-12

Content

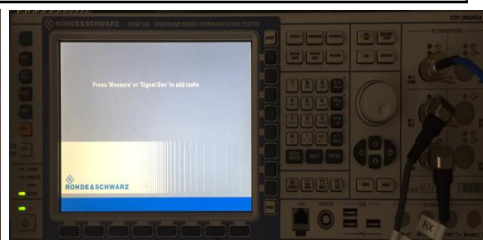
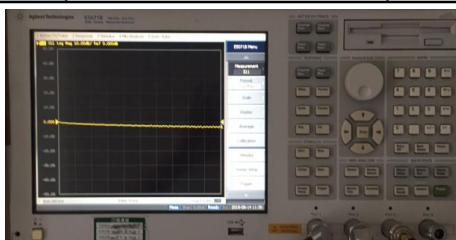
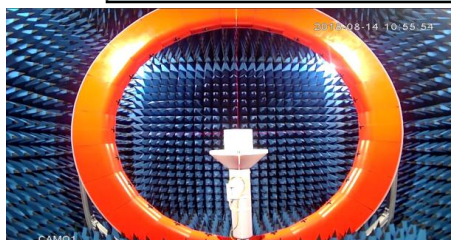
<i>Item</i>	<i>Description</i>
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	19.2x12.1x4.5,T0.4	mm
Frequency	2400-2500;5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 1.92	
Polarization	Linear Polarization	
Gain	2 REF	dBi
Efficiency	> 50	%
Connector Type	DIP	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

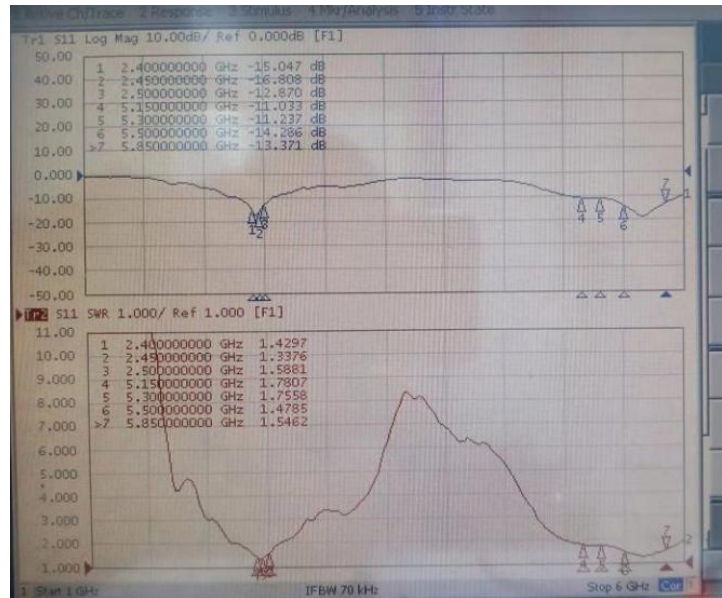
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter

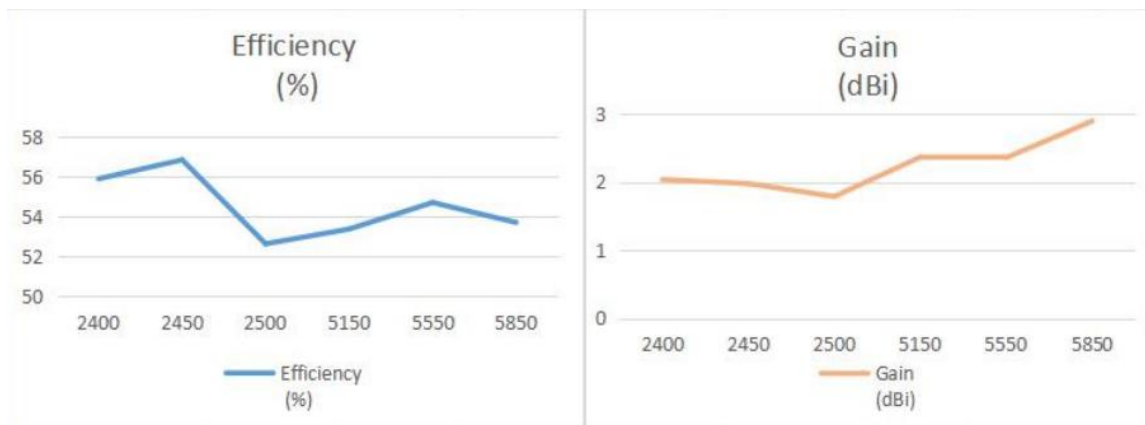
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-15.04	1.42
2450	-16.80	1.33
2500	-12.87	1.58
5150	-11.03	1.78
5300	-11.23	1.75
5500	-14.28	1.47
5850	-13.37	1.54

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



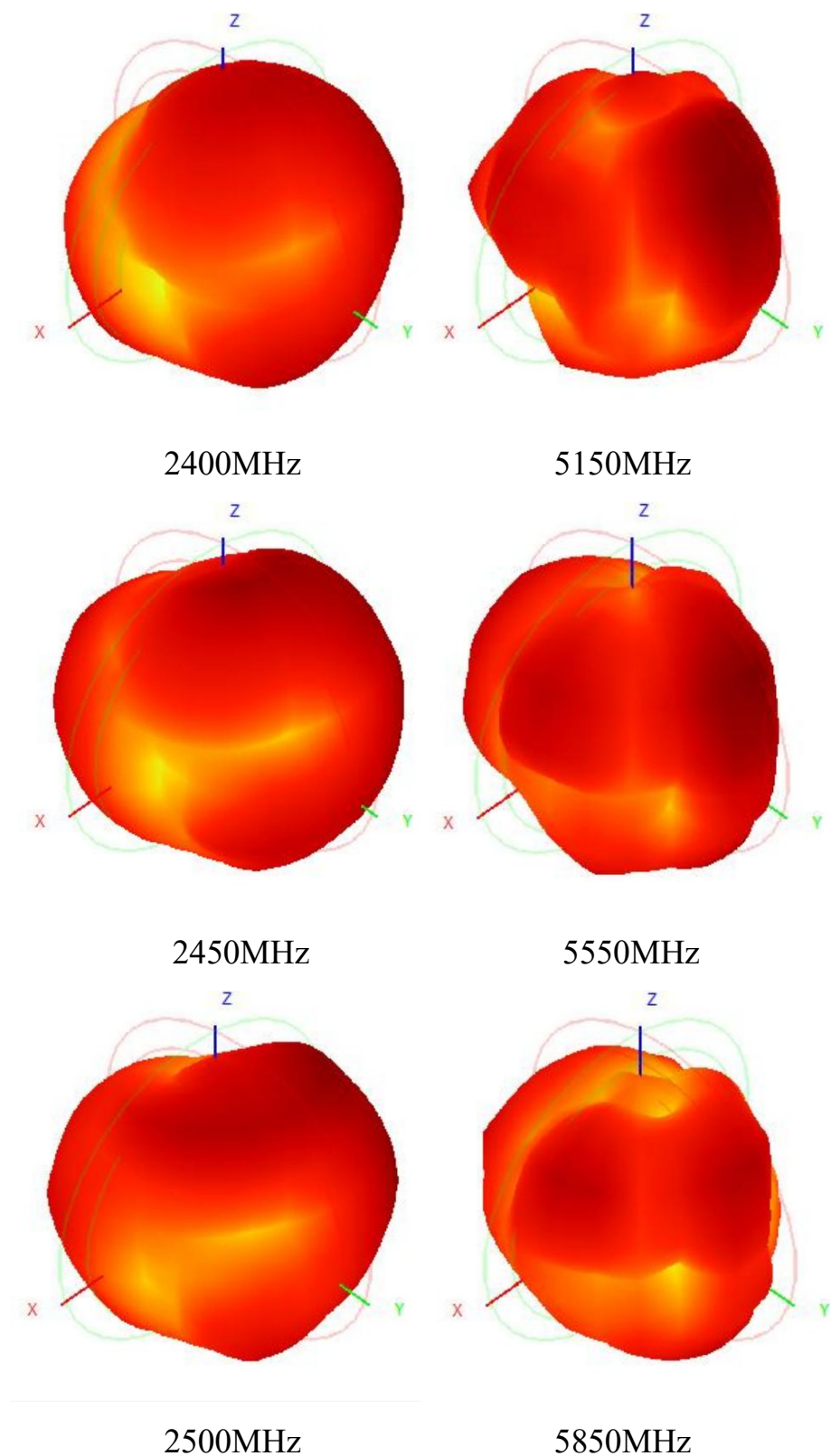
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500	5150	5550	5850
Efficiency (%)	55.91	56.86	52.65	53.39	54.72	53.72
Gain (dBi)	2.04	1.98	1.79	2.37	2.36	2.9

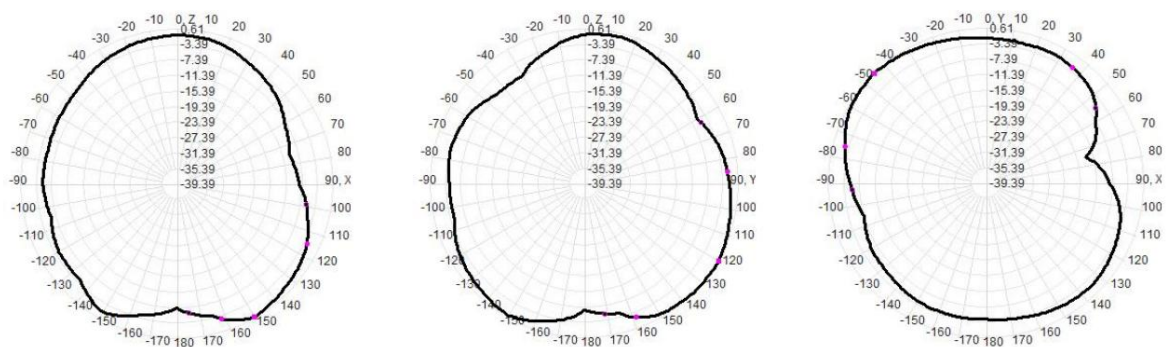


5. Radiation Pattern

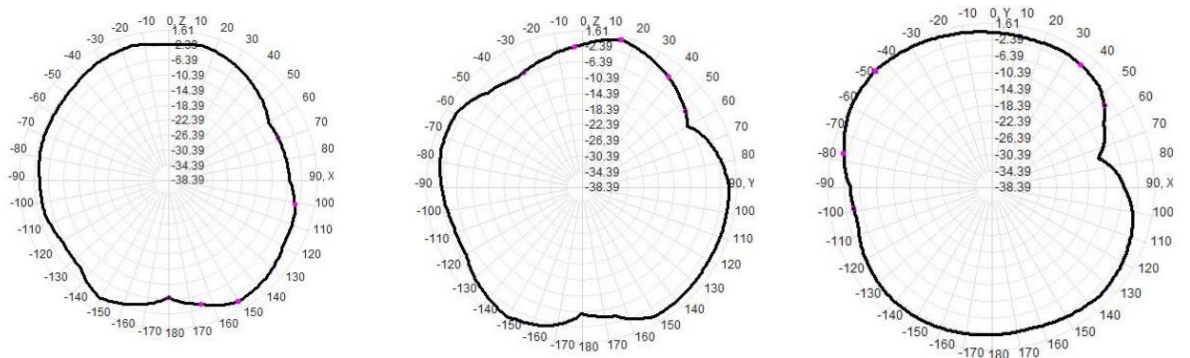
5-1 Antenna 3D Radiation Pattern



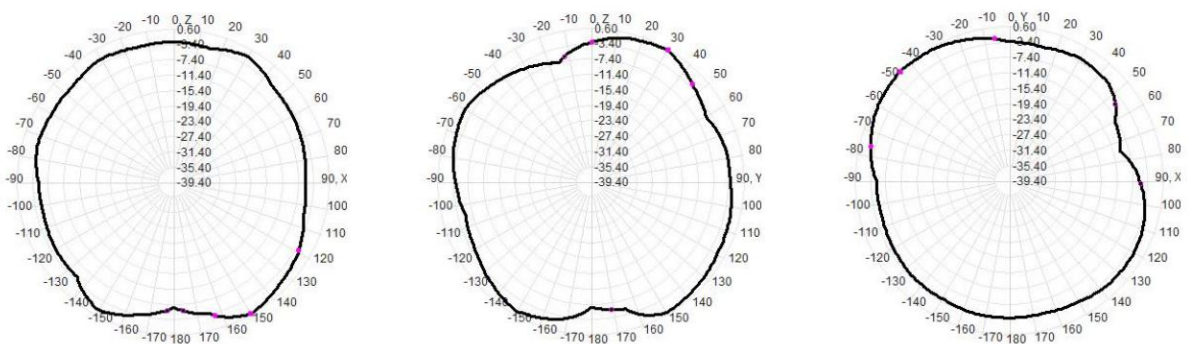
5-2 Antenna 2D Radiation Pattern



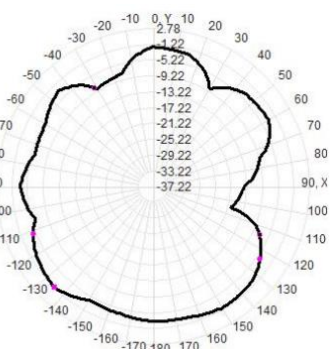
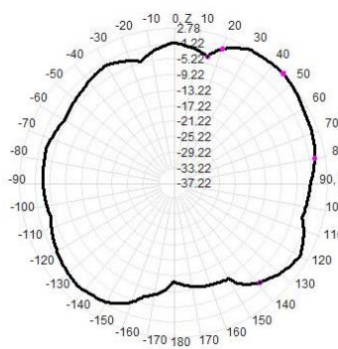
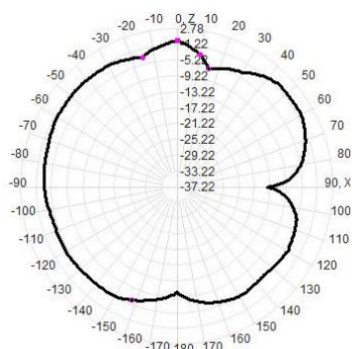
2400MHz



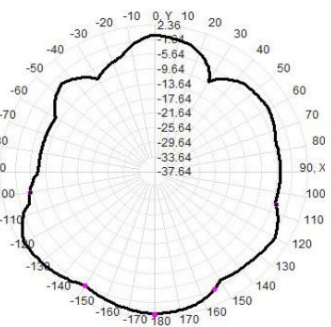
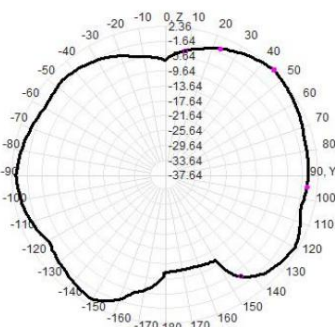
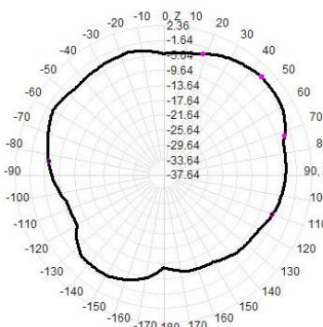
2450MHz



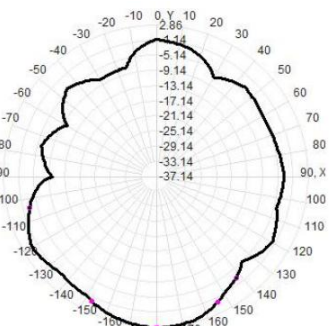
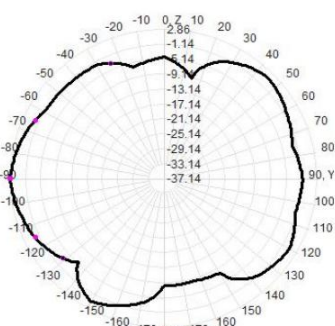
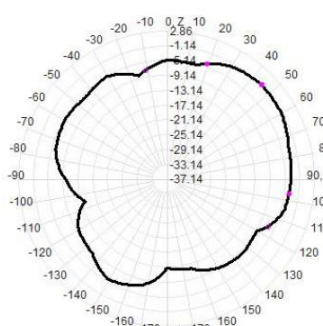
2500MHz



5150MHz



5550MHz



5850MHz

6. Antenna installation diagram



7.Mechanical Specification

