



Dongguan Youbi Electronics Co., Ltd

APPROVAL SHEET

CUSTOMER NAME:

PRODUCT NAME:

CUSTOMER P/N:

Youbi P/N: UB02C230W2D5422A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Lina	
APPROVED BY:	Changxing. Liu	
DATE:	2024/7/12	



Dongguan Youbi Electronics Co.,Ltd

Modification History

Version	Content Revision	Issued by	Date
A	Original version	lina	2024-07-12



Dongguan Youbi Electronics Co., Ltd

Content

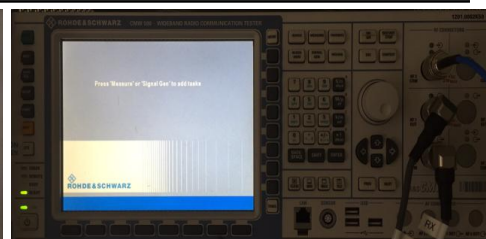
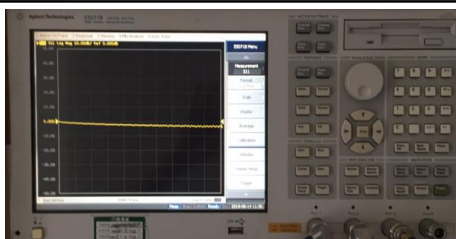
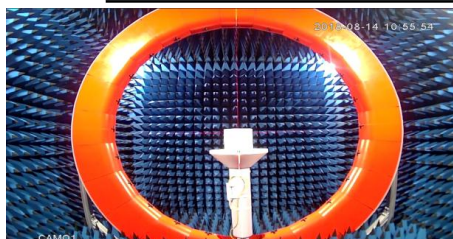
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
6.-----	Mechanical Specification

1. Electrical Specification:

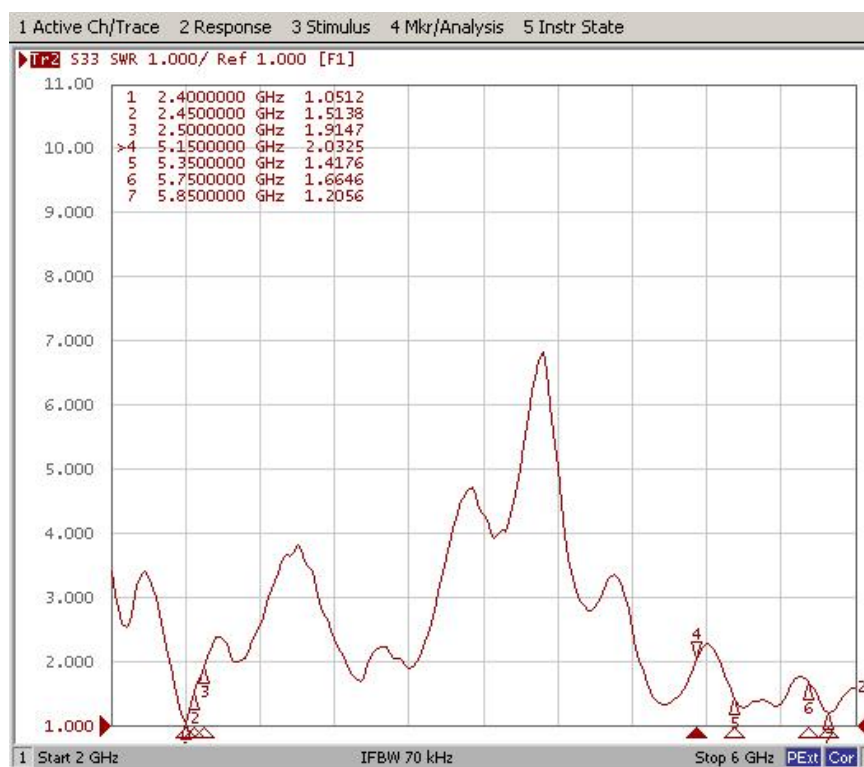
Characteristics	Specifications	Unit
Outline Dimensions	12.9x104.9,L230	mm
Frequency	2400-2500;5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 2.5	
Polarization	Linear Polarization	
AVg Gain	2.49	dBi
Efficiency	>50	%
Connector Type	1.13 MHF-1-Plug	
Operating temperature	-40℃~+80℃	
Storage Temp	-40℃~+80℃	

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)



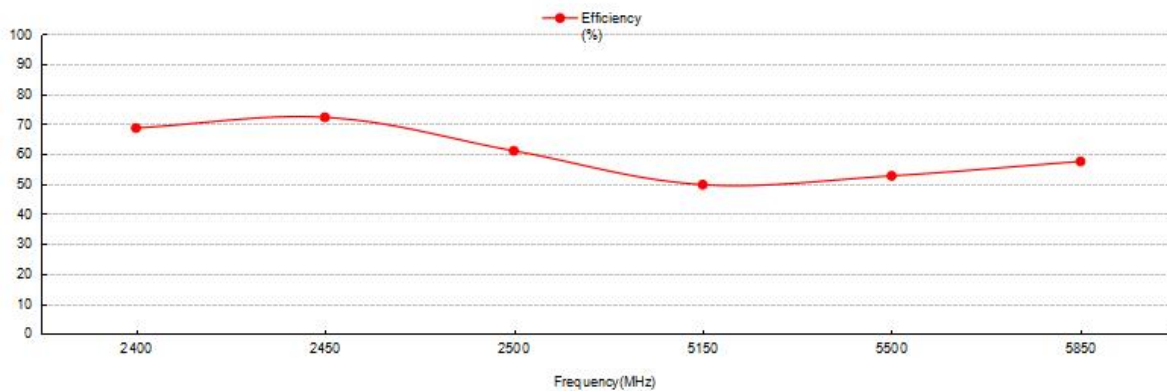
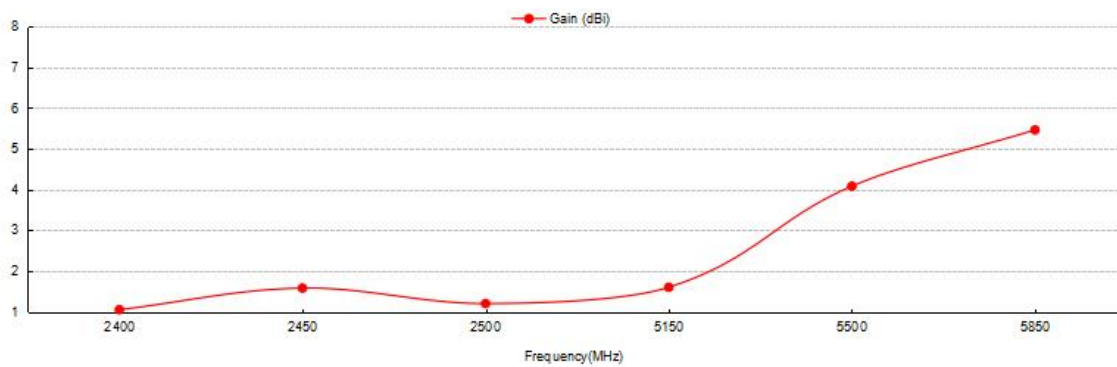
3. S Parameter



Frequency (MHz)	VSWR
2400	1.05
2450	1.51
2500	1.91
5150	2.03
5350	1.41
5750	1.66
5850	1.20

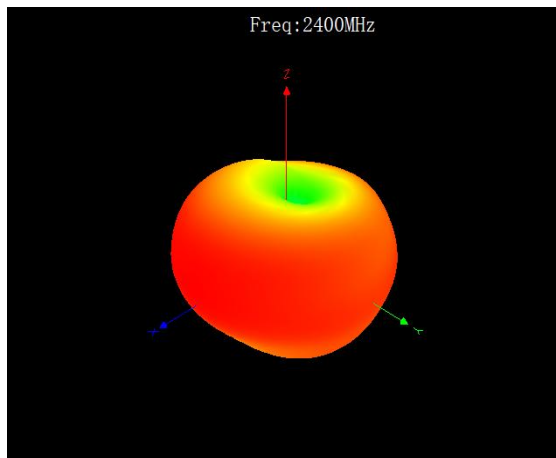
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	68.7	72.27	61.08	49.76	52.71	57.53
Gain (dBi)	1.05	1.58	1.2	1.6	4.08	5.46

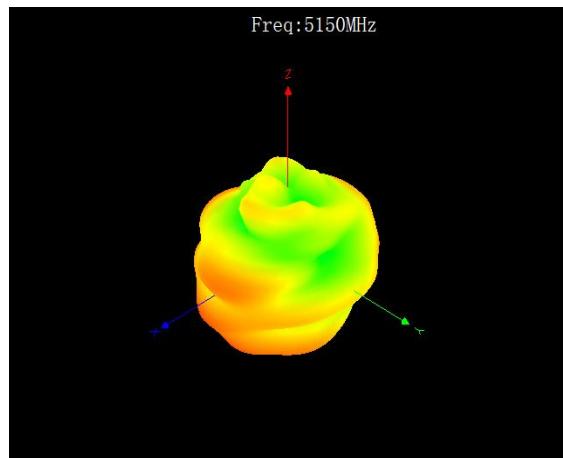


5. Radiation Pattern

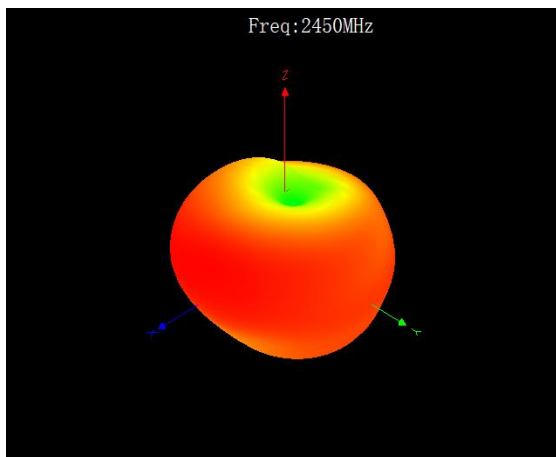
5-1 Antenna 3D Radiation Pattern



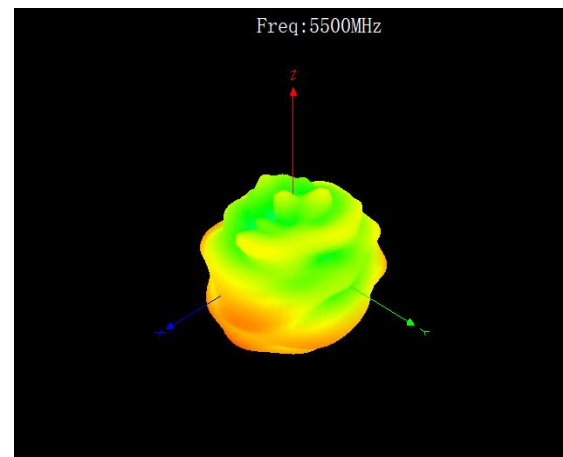
2400MHz



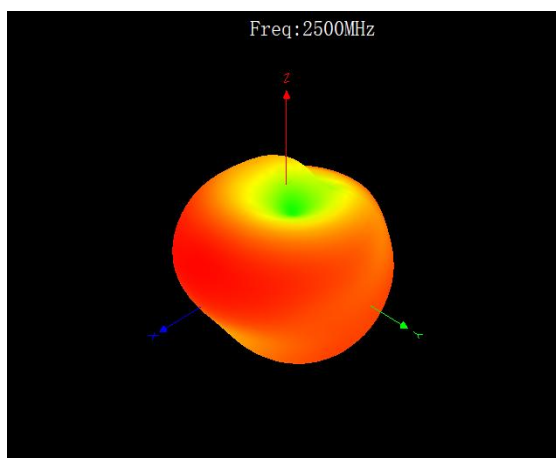
5150MHz



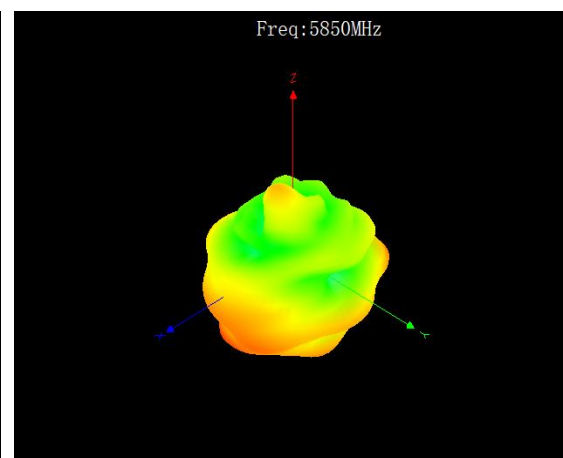
2450MHz



5500MHz

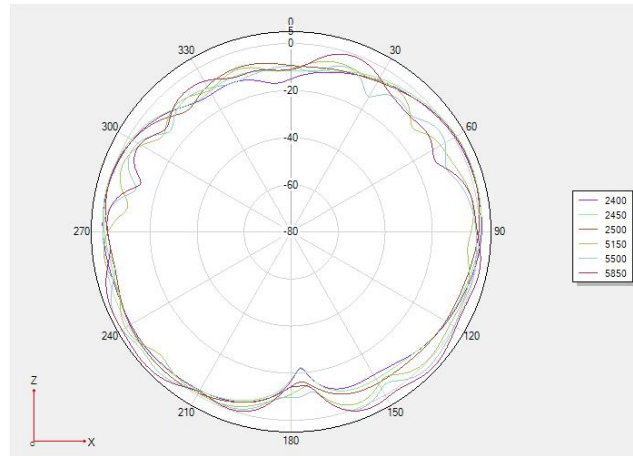


2500MHz

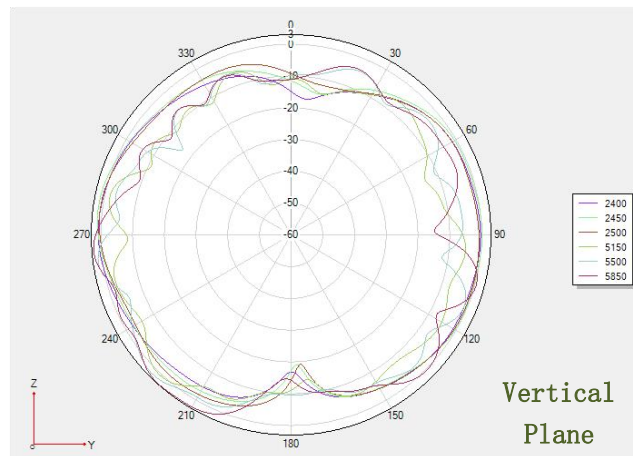


5850MHz

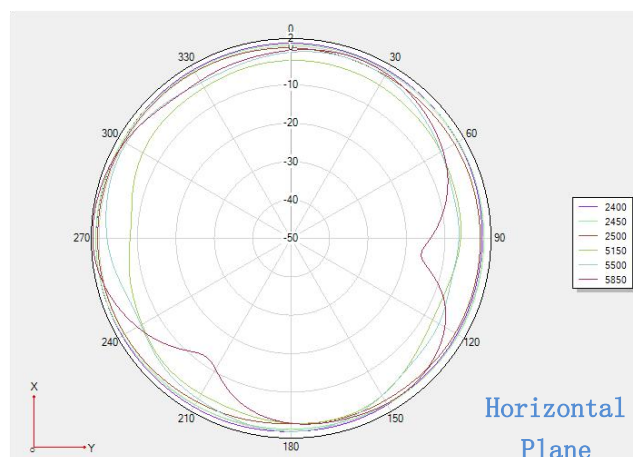
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification:

	REV.	DESCRIPTION	ECN NO.	DATE	DRAFTER
A	First Sample	/	2024.7.12	Sam	

ROHS
COMPLIANT

Specification:
Frequency Range : 2400~2500;5150-5850MHz
VSWR : ≤2.5

DETAIL A
SCALE:4/1

*6.8±0.5

①

②

③

④

⑤

*11.9±0.2

*7.40±0.2

*9.7±0.2

*12.3±0.5

*20.7±1

*2.30±3

*104.9±1.0

*8.8±0.3

*12.9±0.5

ITEM	PART NAME	DESCRIPTION	QTY	GENERAL TOLERANCE:	CUST. P/N:	TITLE:	P/N.: UB02C230W2D5422A	APPR.: Changxing Liu	CHECK.: Dillon	DRAW.: Sam
5	Silicone Ring	Silicone Ring	1	LINEMARK: X.XX ±0.25 X. ±0.3 XX. ±0.5 XXX. ±2.0 ANGLE: ±0.5°						
4	Lower cover	Cover ,PC+ABS, White	1							
3	Upper cover	Cover ,PC+ABS, White	1							
2	Cable	I.13 Coaxial cable,White	1							
1	Connector	MHF-I+Plug connector ,Phosphor brass gold plated	1							