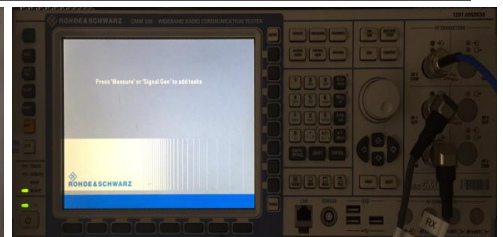
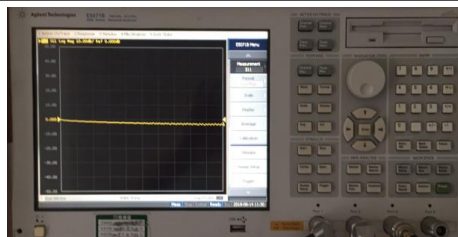
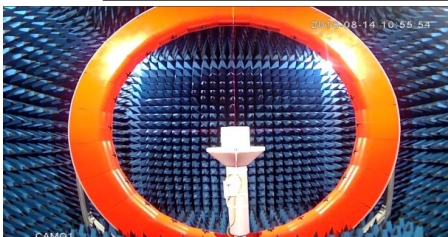


1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	19.11x130.8,L250	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	≤ 1.92	
Polarization	Linear Polarization	
Gain	3 REF	dBi
Efficiency	>40	%
Connector Type	MHF-1-Plug	
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

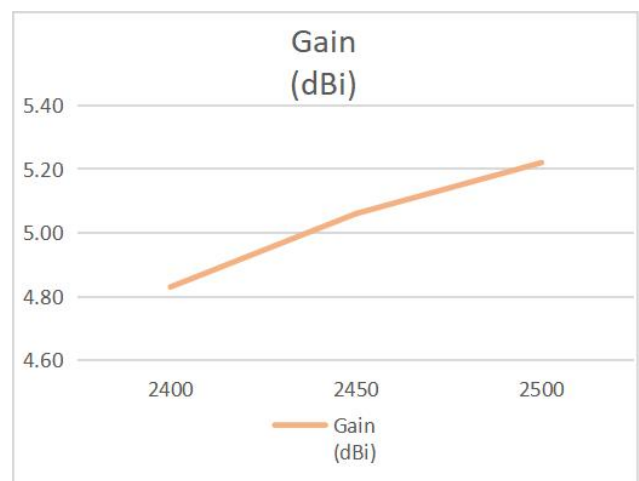
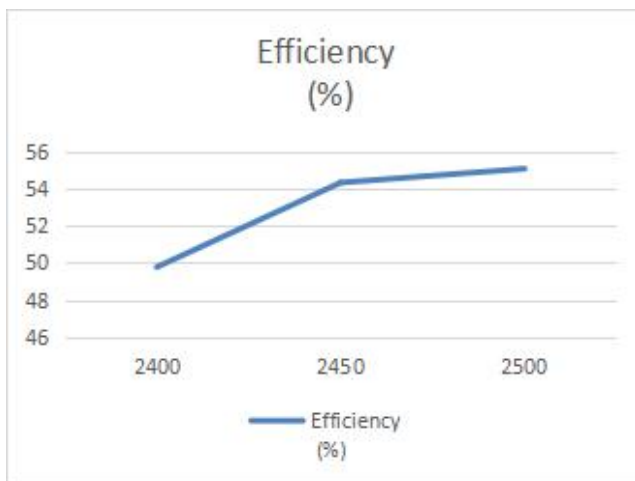
Frequency (MHz)	VSWR
2400	1.18
2450	1.28
2500	1.19

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



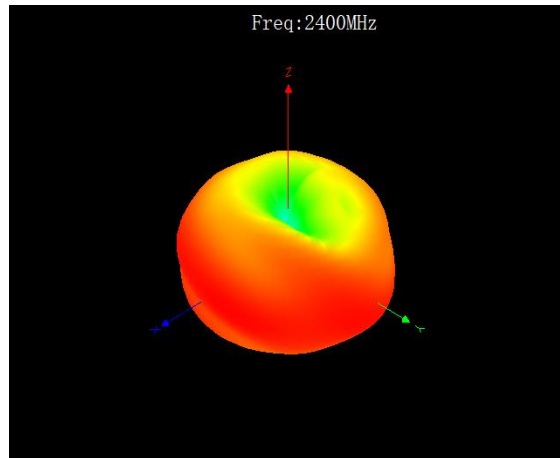
4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	49.77	54.33	55.08
Gain (dBi)	4.83	5.06	5.22

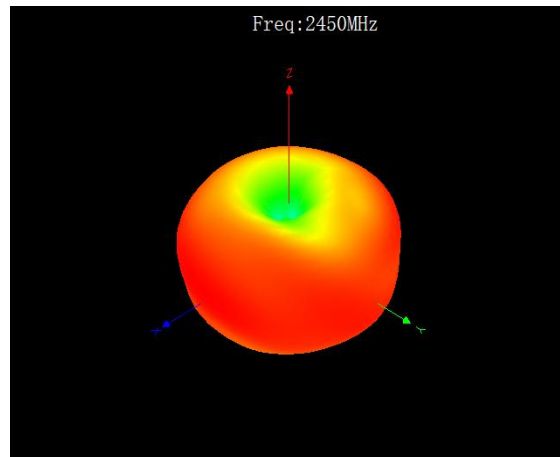


5. Radiation Pattern

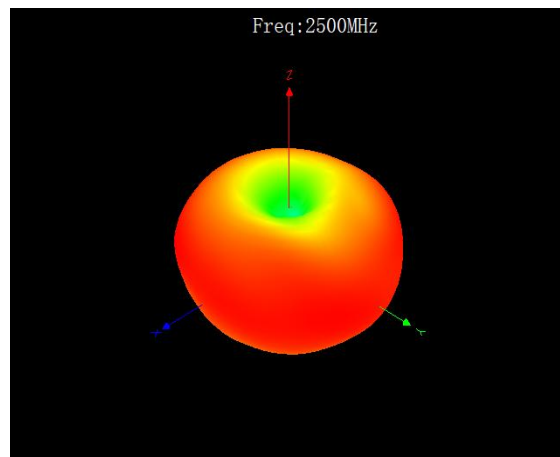
5-1 Antenna 3D Radiation Pattern



2400MHz

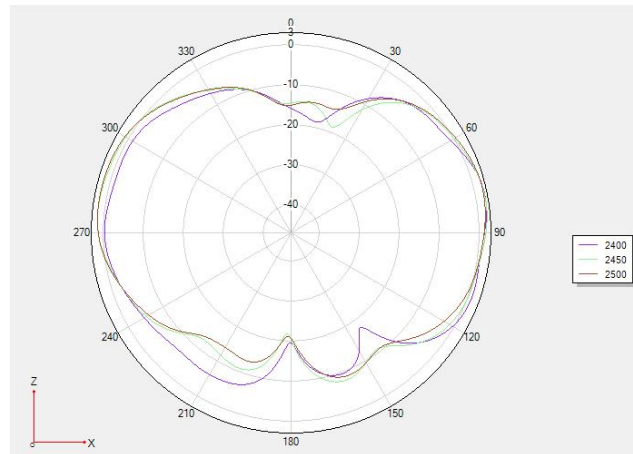


2450MHz

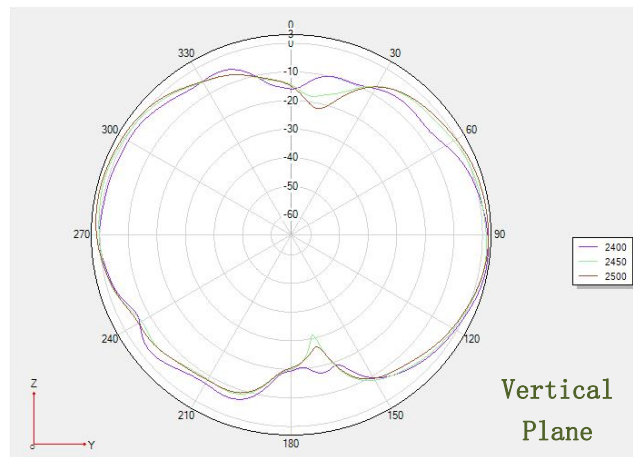


2500MHz

5-2 Antenna 2D Radiation Pattern

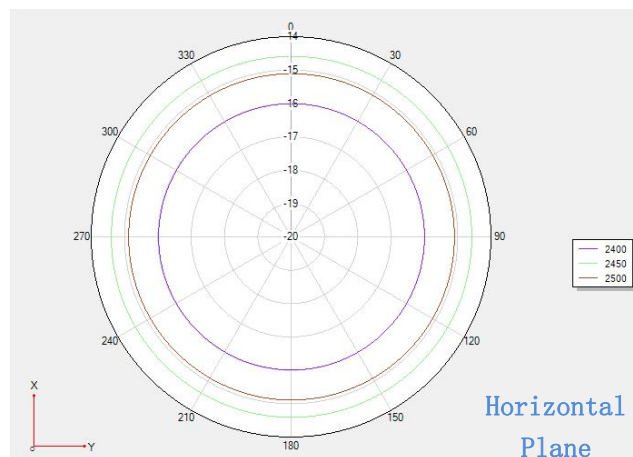


$\Phi = 0^\circ$ 2D



**Vertical
Plane**

$\Phi = 90^\circ$ 2D



**Horizontal
Plane**

$\Theta = 90^\circ$ 2D

RoHS COMPLIANT		REV. DESCRIPTION		ECN NO.		DATE		DRAFTER	
		A First Sample		/		2024.03.12		Bin.Wan	
		A 塑胶调色		/		2024.05.15		Bin.Wan	

技术要求:

- 焊点位置点胶密封, 出线口点胶密封.
- 气密测试标准: 充气20KPa, 测试12 S, 不漏气.

Specification:

Frequency Range : 2400~2500MHz

DETAIL A
SCALE: 4/1

130.80±1

19.4±0.5

ITEM	PART NAME	DESCRIPTION	QTY	GENERAL TOLERANCE: CIST. P/N:	TITLE: 2.4G W12H套 W17下圆白色天线 L=250mm+端子 P/N: UB02C230W3D5249A	REV.	UNITS	SCALE
1	端子	1.13端子, 磷铜镀金	1	±0.25 ±0.3 ±0.5 ±2.0 ±0.5		A	mm	1:1
2	线材	1.3 PE线材, 灰色	1	XX XXX ANGLE:				
3	固定座	PC+PBT, URS-009白色	1	XX XXX ANGLE:				
4	防水圈	硅胶, 红色	1	XX XXX ANGLE:				
5	PCB	FR-4, 黑色	1	XX XXX ANGLE:				
6	杆套	ABS, URS-009白色	1	XX XXX ANGLE:				
7	泡棉	EVA, 黑色	1	XX XXX ANGLE:				
8	IV胶	白色	1	XX XXX ANGLE:				

1. Pack full: 25PCS/扎; 2扎/PE Bag.
2. PE袋须贴上下5处箱标至PE袋中间.

1. 外箱须贴上下pcs/ROHS环境标签至外箱标签上;
2. 外箱须贴上下pcs外箱标签至外箱左上角.
(注: 如果标签客户有要求则按客户要求贴; 否则按优化标准贴.)