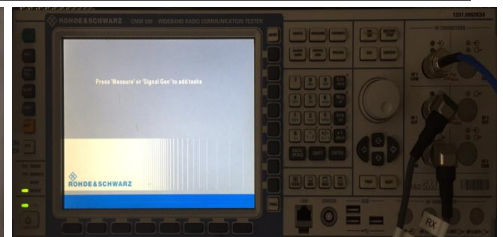
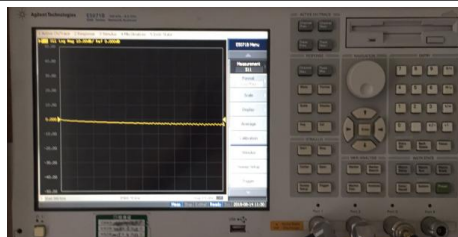
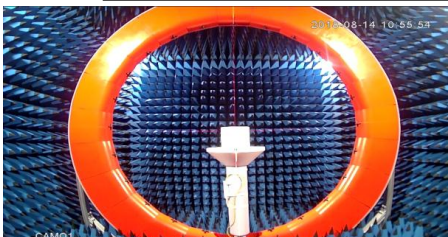


1. Electrical Specification:

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

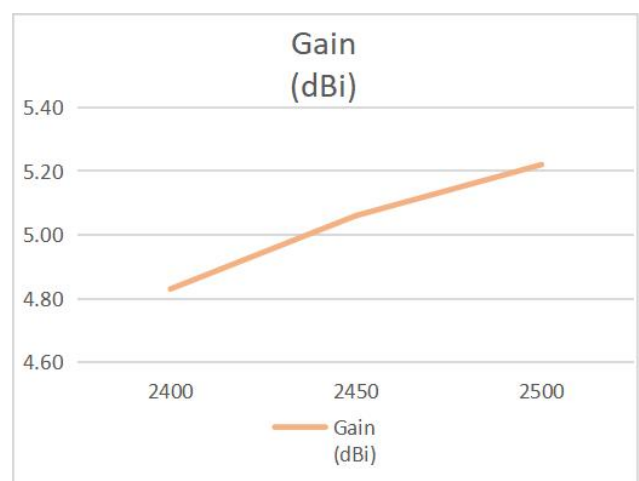
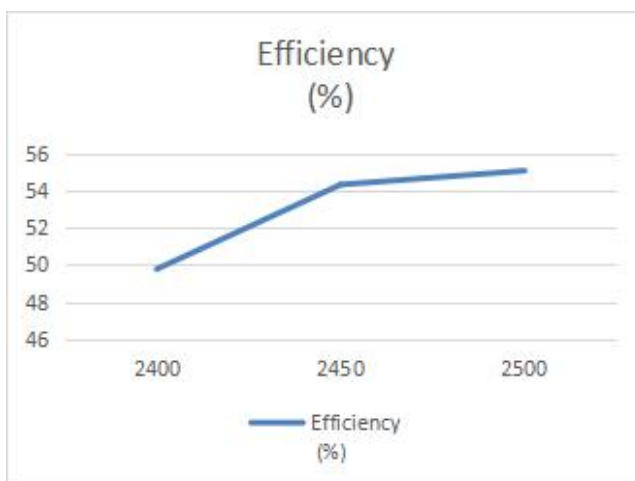
Frequency (MHz)	VSWR
2400	1.18
2450	1.28
2500	1.19

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



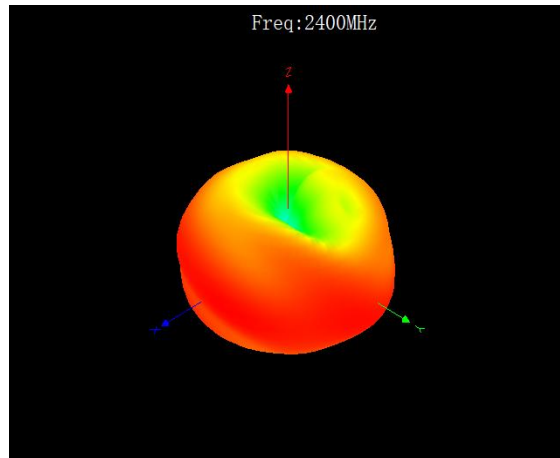
4. Efficiency and Gain

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

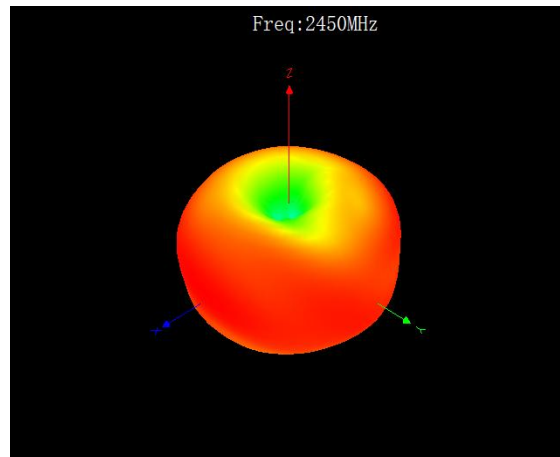


5. Radiation Pattern

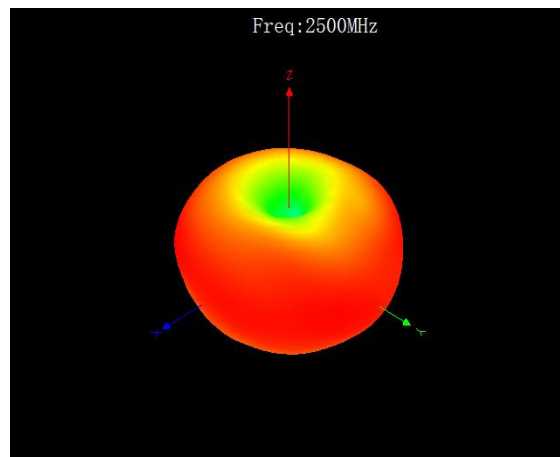
5-1 Antenna 3D Radiation Pattern



2400MHz

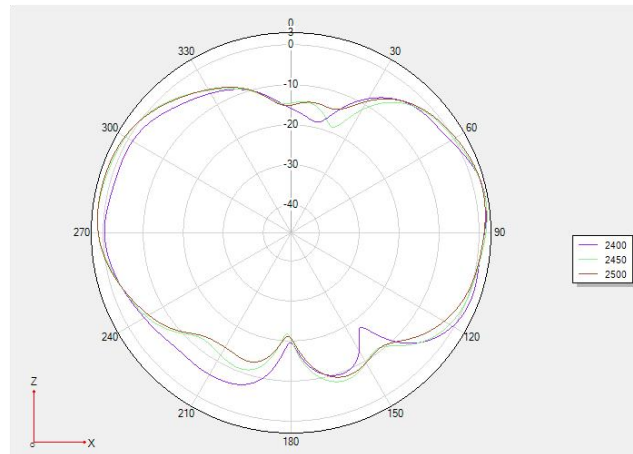


2450MHz

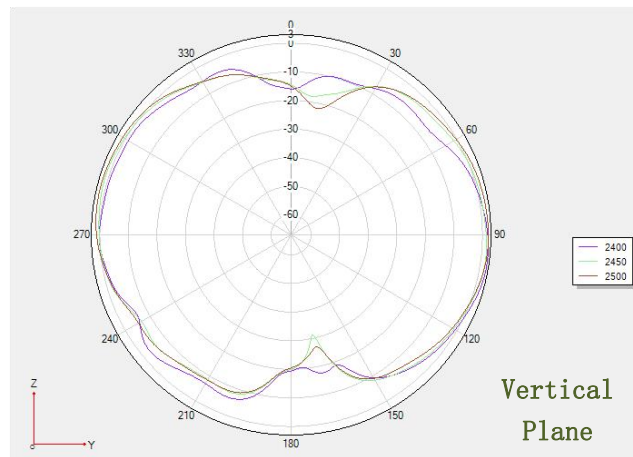


2500MHz

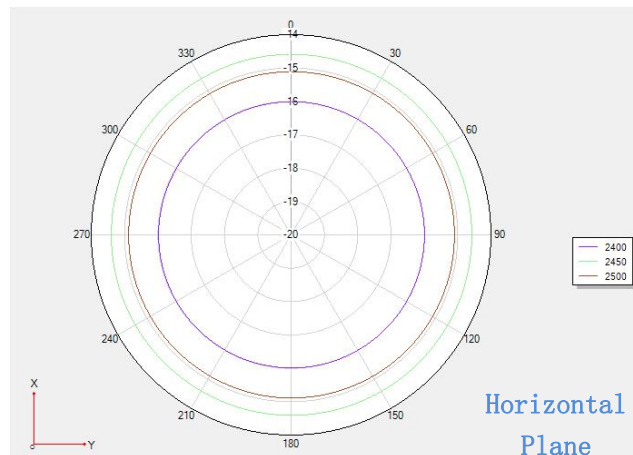
5-2 Antenna 2D Radiation Pattern



$\Phi = 0$ 2D



$\Phi = 90$ 2D



$\Theta = 90$ 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	

Specification:

Frequency Range : 2400~2500MHz

技术要求:

1. 焊点位置点胶密封, 出线口点胶密封.

2. 气密测试标准: 充气20KPa, 测试12 S, 不漏气.

DETAIL A

SCALE: 4/1

1. 外箱须贴11pcs/ROHS环境标签至外箱标签上;

2. 外箱须贴11pcs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)。

ITEM	PART NAME	DESCRIPTION	QTY
1	端子	1.13端子, 磷铜镀金	1
2	线材	1.3 PE线材, 灰色	1
3	固定座	PC+PBT, URS-009白色	1
4	防水圈	硅胶, 红色	1
5	PCB	FR-4, 黑色	1
6	杆套	ABS, URS-009白色	1
7	泡棉	EVA, 黑色	1
8	IV胶	白色	1

GENERAL TOLERANCE: CIST. P/N:	
TITLE:	2.4G W12杆套 W17下圆白色天线
L: LINEAR:	
X, XX	±0.25
XX, XXX	±0.3
ANGLE:	±0.5
P/N, URS-009	±2.0
	±0.5

REV.	UNITS	SCALE
A	mm	1 : 1