

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2025-1-17

Content

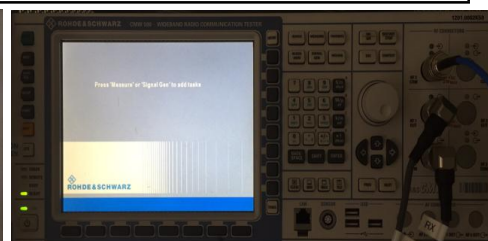
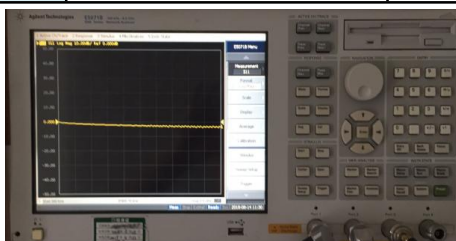
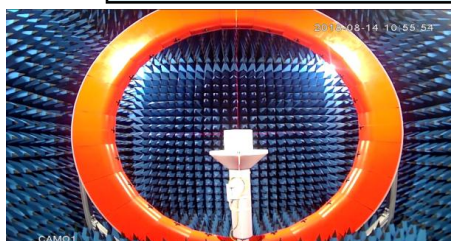
<i>Item</i>	<i>Description</i>
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	30.9x26.2,L60	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2	
Polarization	Linear Polarization	
Gain	3.28	dBi
Efficiency	>50	%
Connector Type	RF 1	
Operating temperature	-25℃~+85℃	
Storage Temp	-25℃~+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

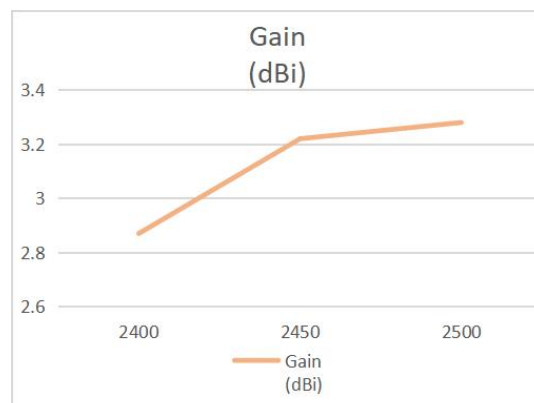
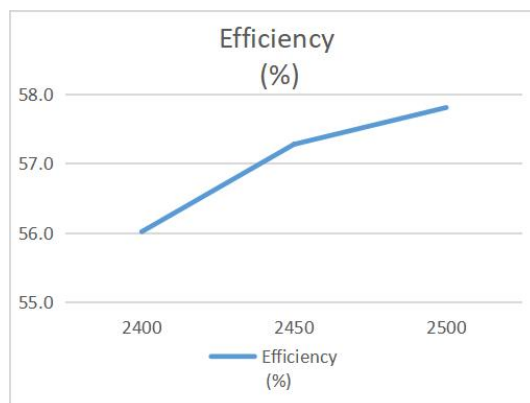
Frequency (MHz)	Return Loss (dB)	VSWR
2400	-12.23	1.72
2450	-17.72	1.33
2500	-14.24	1.53

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

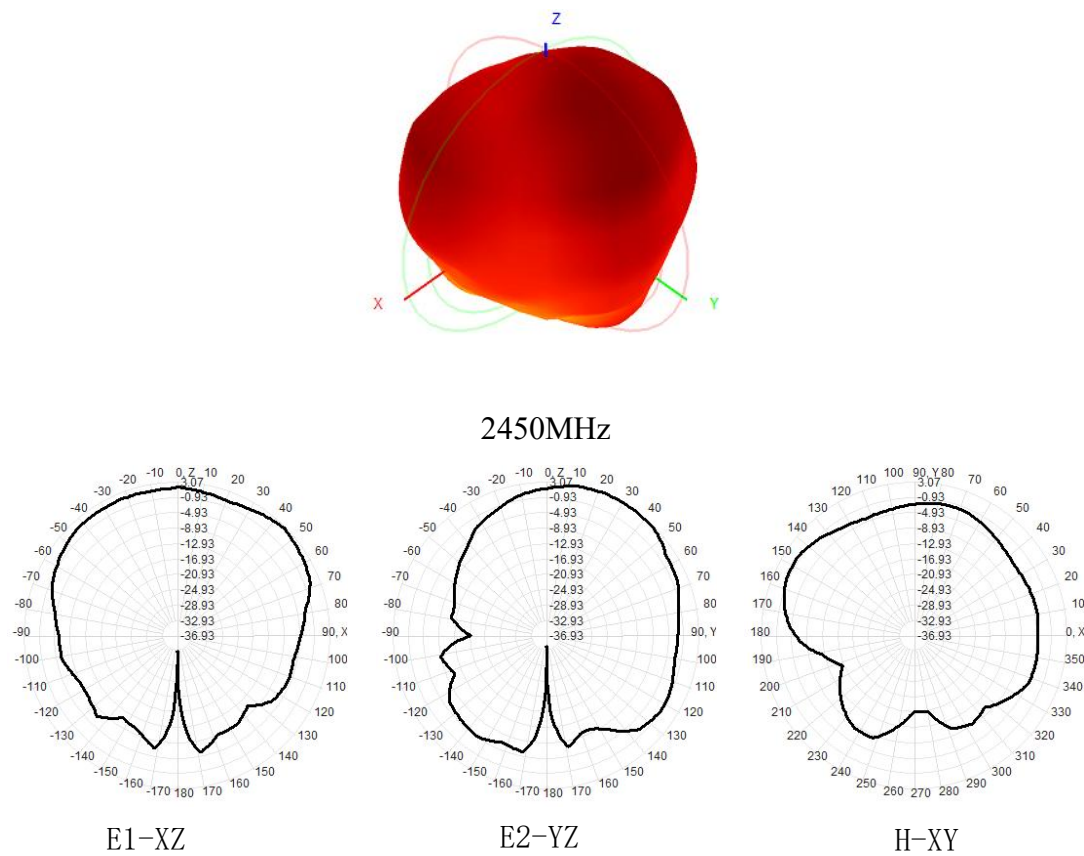


4. Efficiency and Gain

Frequency (MHz)	2400	2450	2500
Efficiency (%)	56.02	57.28	57.81
Gain (dBi)	2.87	3.22	3.28



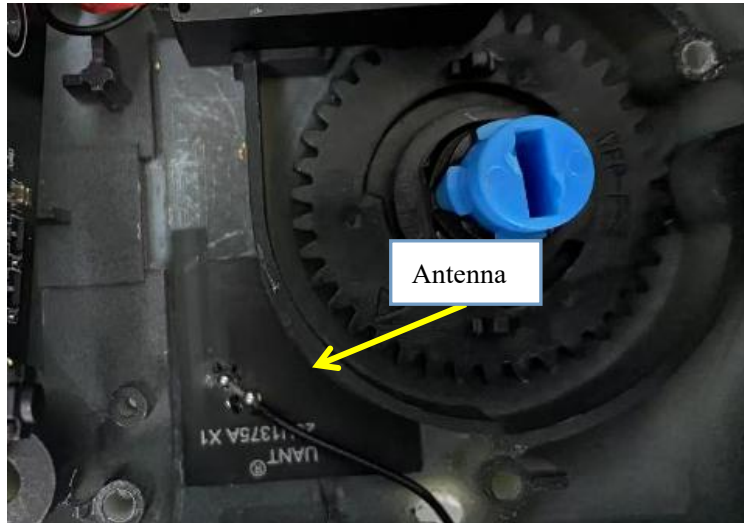
5. Radiation Pattern_单锁



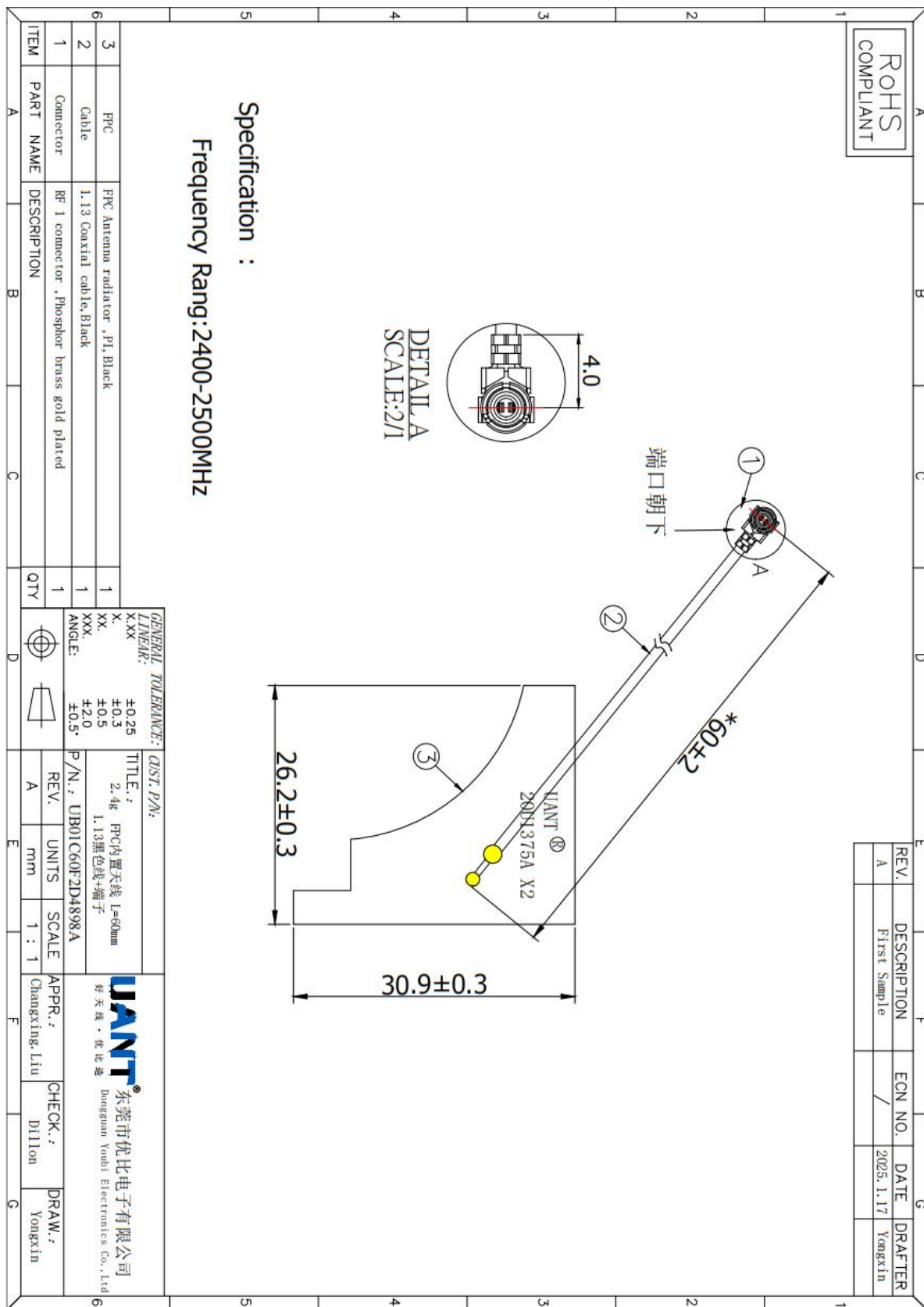
6.Active test data

Channel	Measurement	A 模/54M
1	TRP	13.84
6	TRP	14.26
11	TRP	14.21
1	TIS(EIRP)	-86.04
6	TIS(EIRP)	-85.86
11	TIS(EIRP)	-86.67

7. Antenna installation diagram



8. Mechanical Specification



9. Packaging

