NO：SDN-RD-FY-2025010304

APPROVAL SHEET

Customer				
Customer P/N				
Project Name	860-930MHz Antenna			
Supplier	Shanghai Saintenna Wireless Technology Co. , Ltd.			
Saintenna P/N	SAA32315C			
ROHS Compliant	Yes			
Providing Date				
Supplier	Prepared by	Designer	QA	Approver

Address: Room 601, Building 1, No. 69 Yuanfeng Road, Baoshan District, Shanghai 200444, China

Tel：086-021-56165098; Fax：086-021-56165098

Customer	Prepared by	Checked by	Approver

Note: Signature must be confirmed by hand

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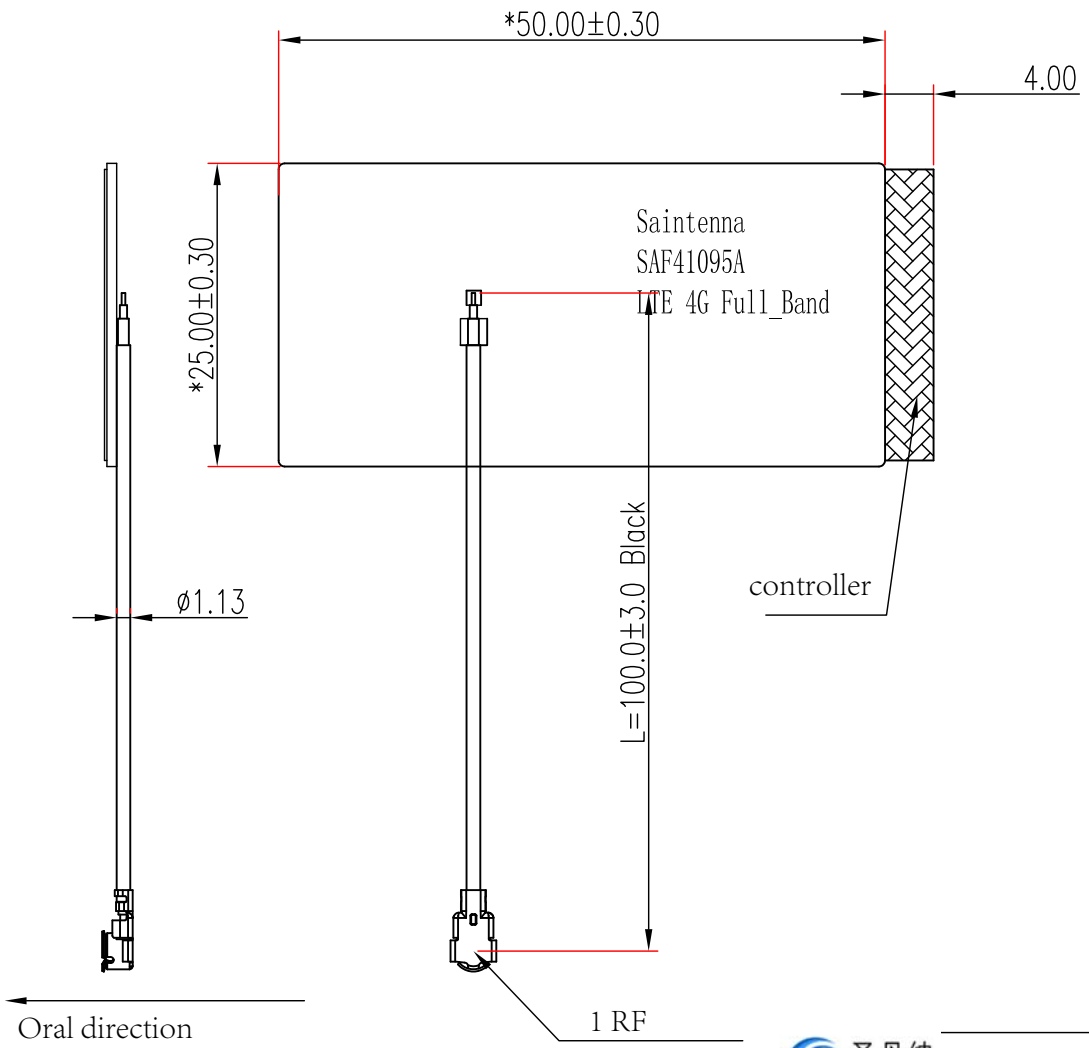
Specification

1. Mechanical Specification

- Connect Type..... 1 RF
- Work Temperature..... -40~85℃
- Storage Temperature..... -40~85℃
- Salt spray tolerance..... 48H

2.Electrical Specification

- Frequency Range..... 860MHz~930MHz
- VSWR..... <3
- Efficiency..... <60.54%
- Peak Gain..... 2.62dBi
- Polarization..... Linear
- Input Impedance..... 50Ω
- Max Input Power..... 5W



Shanghai Saintenna Wireless Technology Co.,LTD.

Third Projection			
0～3	±0.10	⌖	0.30
3～30	±0.30	○	0.30
30～50	±0.50	◎	0.30
50～80	±1.00	⊥	1.00
角度	±1°	▱	1.00
第 1 页，共 1 页			

	S1988		2025.01.03
	860-930MHz		MD mayuxue
			RF zhengzhen
	SAA32315B		
		mm	FIT P1

Antenna matching debugging report

Shanghai Saintenna Wireless Technology Co., LTD.

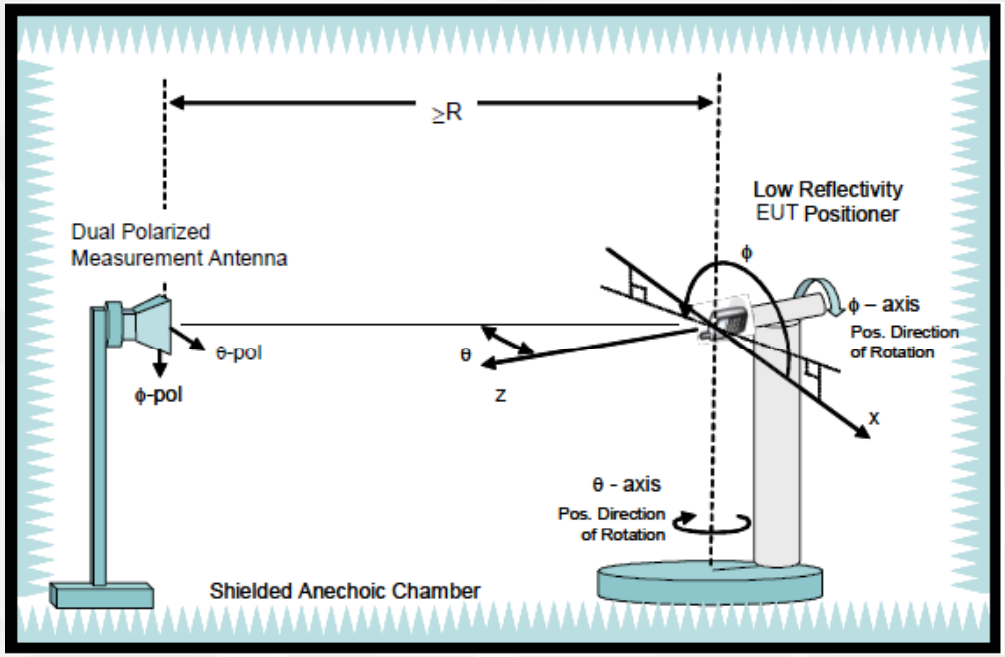
Project Information

Working Band	860-930MHz
Version	V1.0
Date	2025.1.3

Tuning Instrument

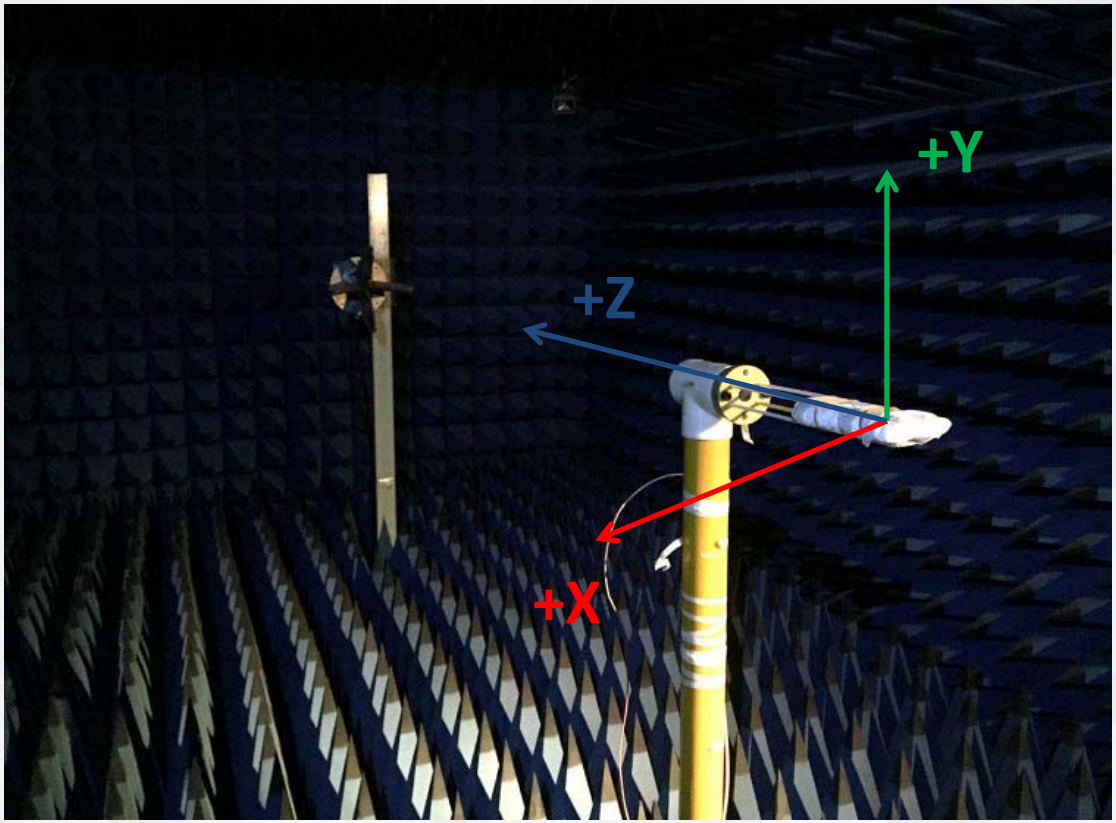
Network Analyzer	Agilent E5071C
Frequency Range	100KHz ~ 8.5GHz
Test Item	Return Loss/VSWR/Smith Chart /Isolation

Typical Setup for Test System



Combined-Axes System

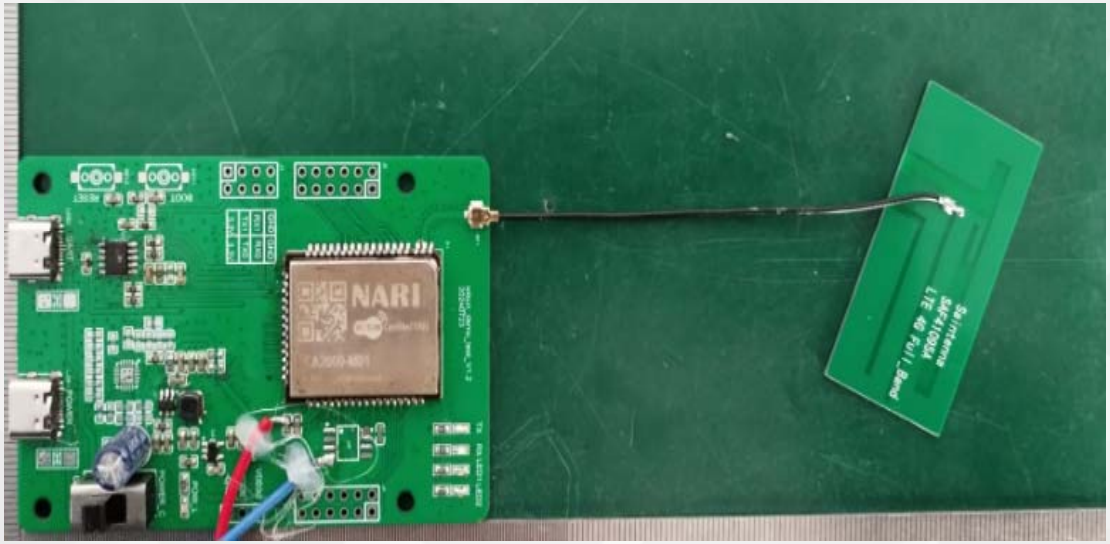
Anechoic Chamber



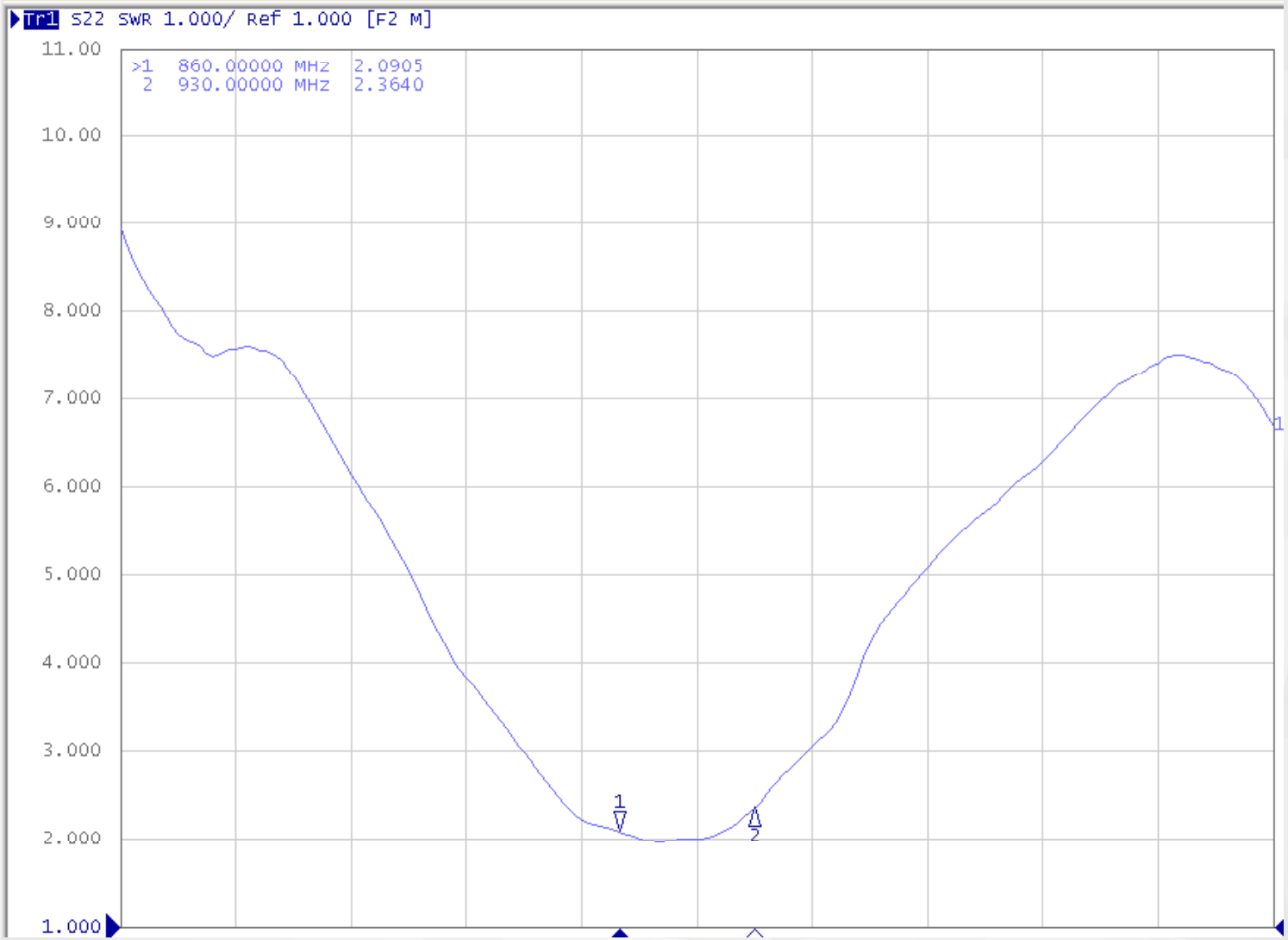
Combined-Axes System

Comment: E1 plane means XZ section, E2 plane means YZ section, H plane means XY section.

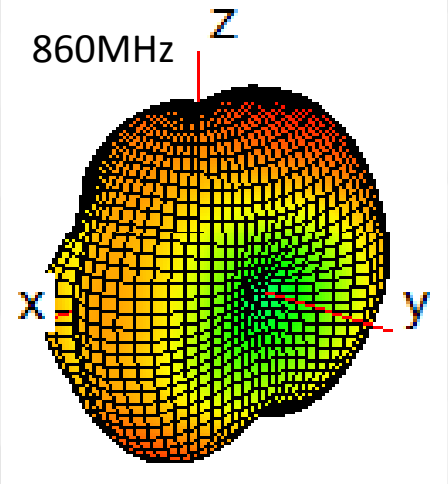
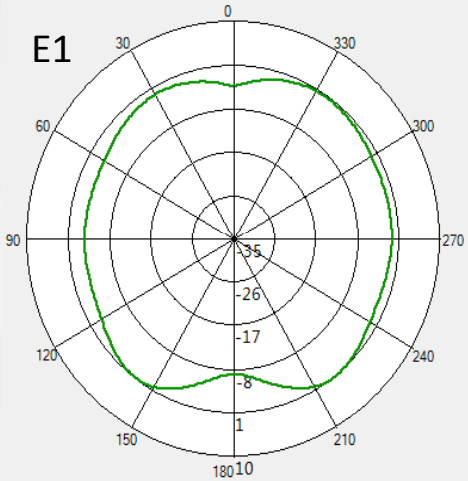
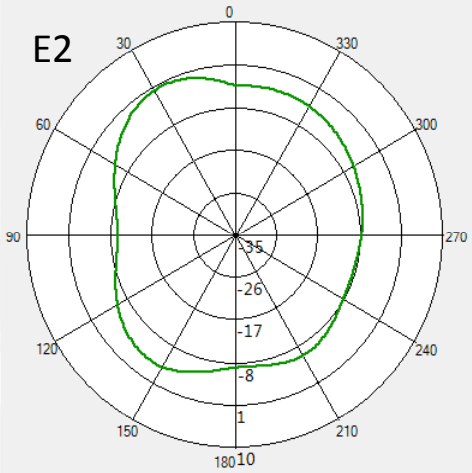
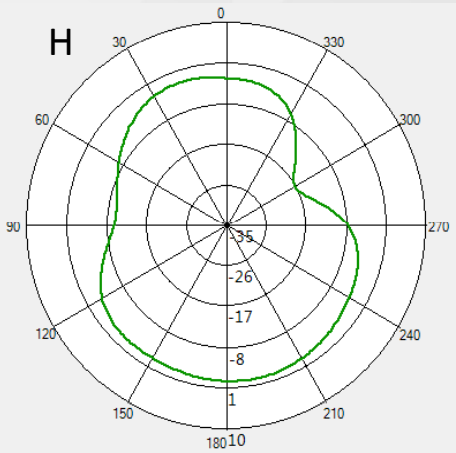
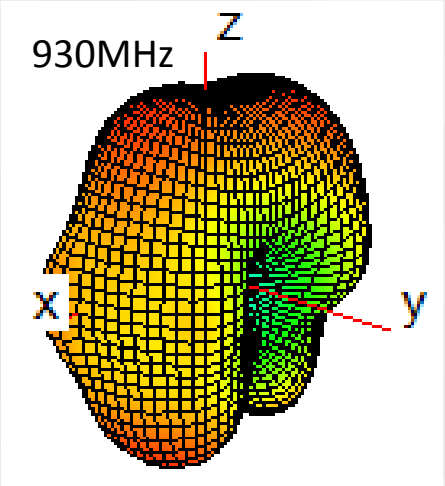
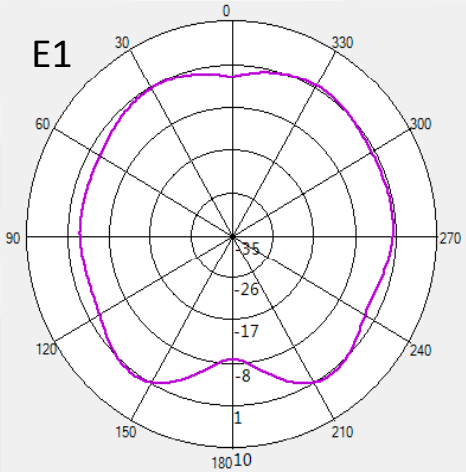
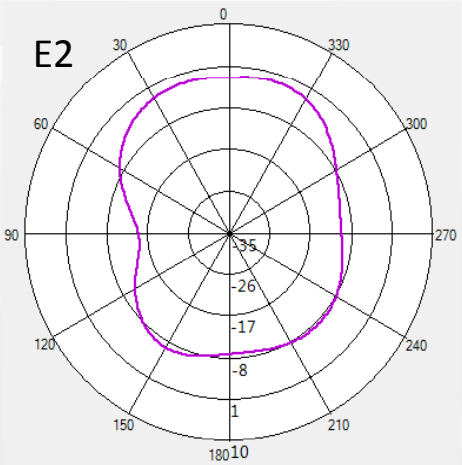
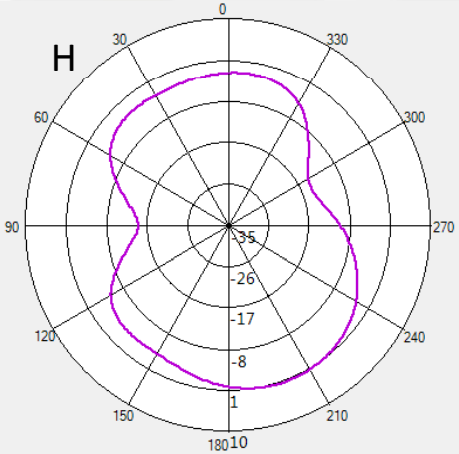
Antenna Sample Description（PCB）



VSWR（PCB）


Tr1 S22 SWR 1.000/ Ref 1.000 [F2 M]
>1 860.00000 MHz 2.0905
2 930.00000 MHz 2.3640
11.00
10.00
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000

Test Result - Passive （PCB）

Freq. (MHz)	Gain (dBi)	Eff.
860	1.7	56.51%
870	2.05	57.97%
880	2.57	60.54%
890	2.62	60%
900	2.15	55.04%
910	2.25	57.5%
920	2.35	57.99%
930	1.68	57.68%

Radiation Pattern（PCB）