



South
star

SHENZHEN SOUTH STAR TECHNOLOGY CO.,LTD

APPROVAL SHEET

Customer Name SHENZHEN XIAOMI LLET COMMUNICATION Co.,LTD

Product Model NR01

Customer P/N 1710805000237A

Specifications PCB antenna, 2.4G, 5dBi, 1.37 gray RFcable L=178mm

Southstar P/N 3. N101. 1509

Production date 2024. 10. 24

Revision V1.0

Southstar		
FICTION	DQE	R&D
Customer		
PUR	QC	R&D

Manufacturers: DONGGUAN SOUTH STAR TECHNOLOGY CO.,LTD

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Guangdong Province

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Http: //www.southstar-tech.com



History

Version	Date	Change Description	Note
V1.0	2024. 10. 24	Initial version	

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The basic parameters:

A. Electrical Characteristics	
Frequency	2400MHz ~ 2500MHz
VSWR	<2
Efficiency	>60%
Impedance	50 Ohm
Polarization	Linear
Peak Gain	6.18dBi@2450MHz
Note:	
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Cable Type	Ø1.37mm gray
Connector Type	IPEX
C. Environmental	
Operation Temperature	-40℃ ~ +70℃
Storage Temperature	-40℃ ~ +70℃



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Test Equipment & Conditions:

1. NetWork Analyzers:

Keysight E5071C

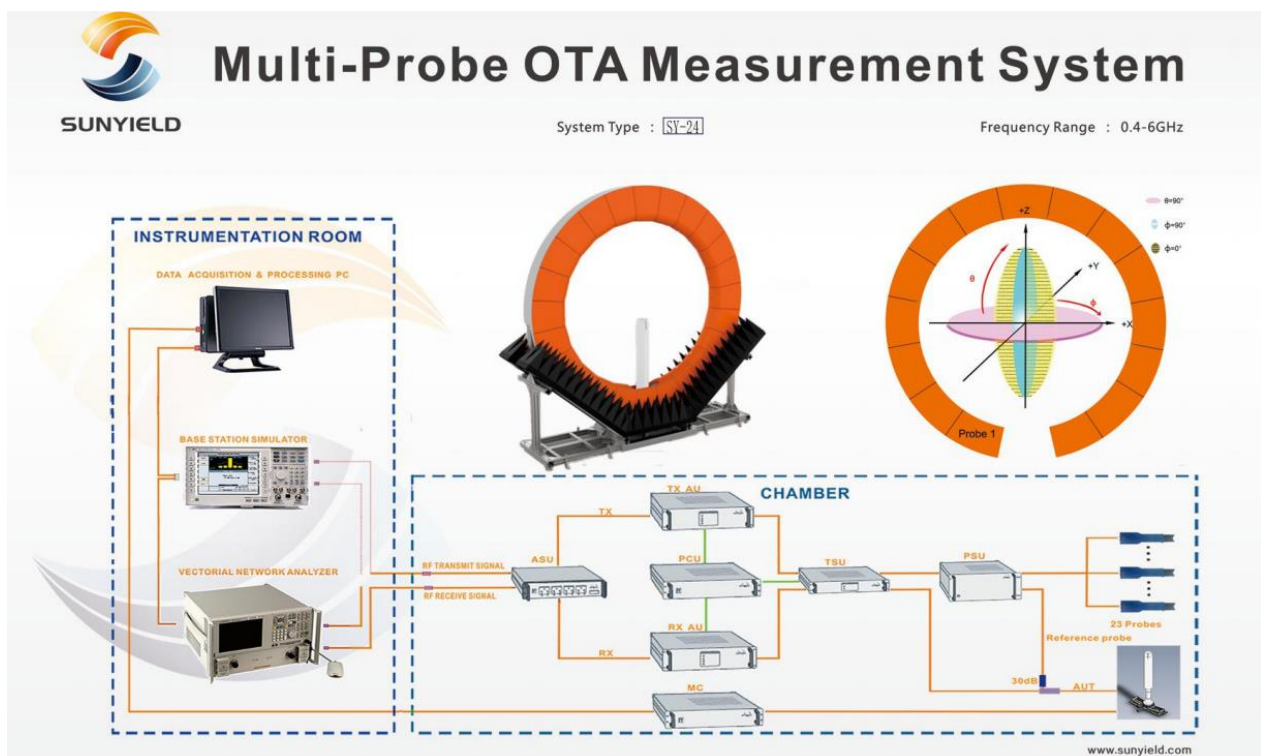
2. Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

3. 3D Chamber Test System

4. Calibration time

2024. 03. 26~2025. 03. 25





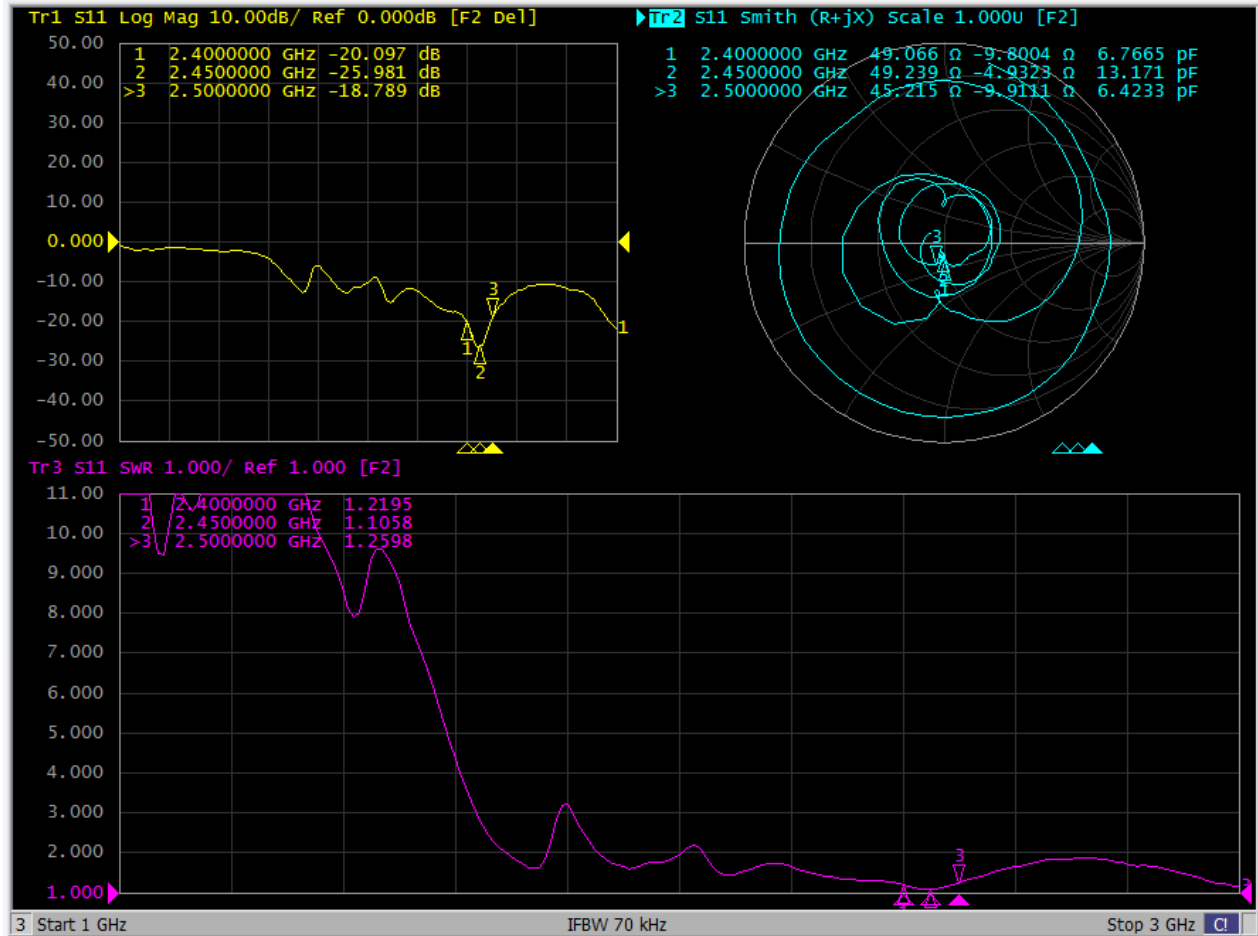
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Antenna Impedance: S11

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State



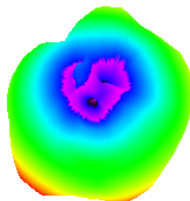


Efficiency & Gain:

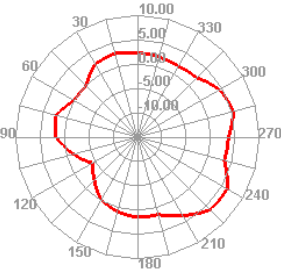
Freq (MHz)	Effi (%)	Gain (dBi)
2400	77.95	6.25
2410	75.64	6.08
2420	72.45	5.81
2430	76.92	5.71
2440	74.21	5.93
2450	77.6	6.18
2460	73.48	5.91
2470	72.69	5.71
2480	73.75	5.73
2490	72.45	5.86
2500	73.65	5.86

Antenna 3D & 2D pattern:

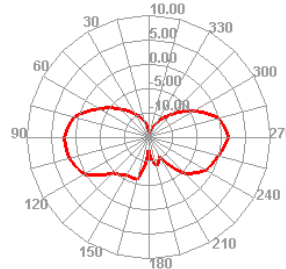
2400.000MHz



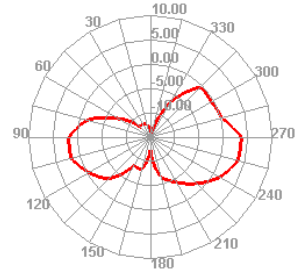
2400.000MHz H



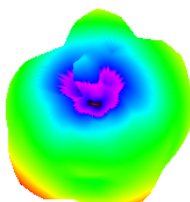
2400.000MHz E1



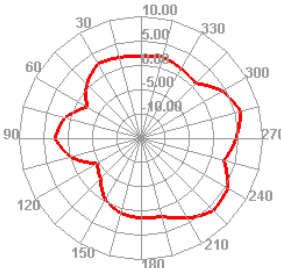
2400.000MHz E2



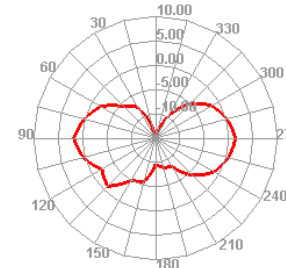
2450.000MHz



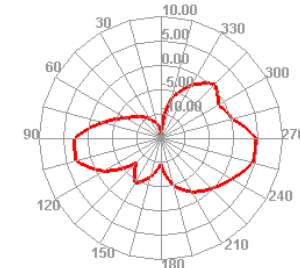
2450.000MHz H



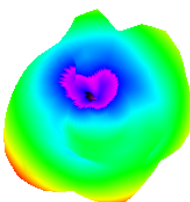
2450.000MHz E1



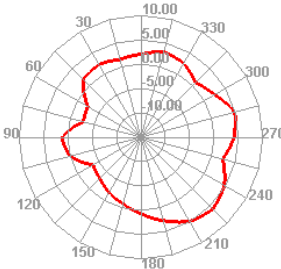
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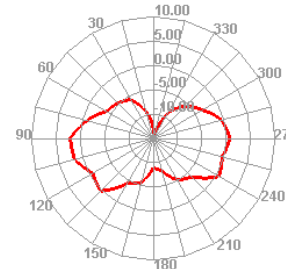
2500.000MHz



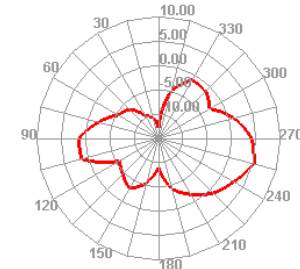
2500.000MHz H



2500.000MHz E1



2500.000MHz E2

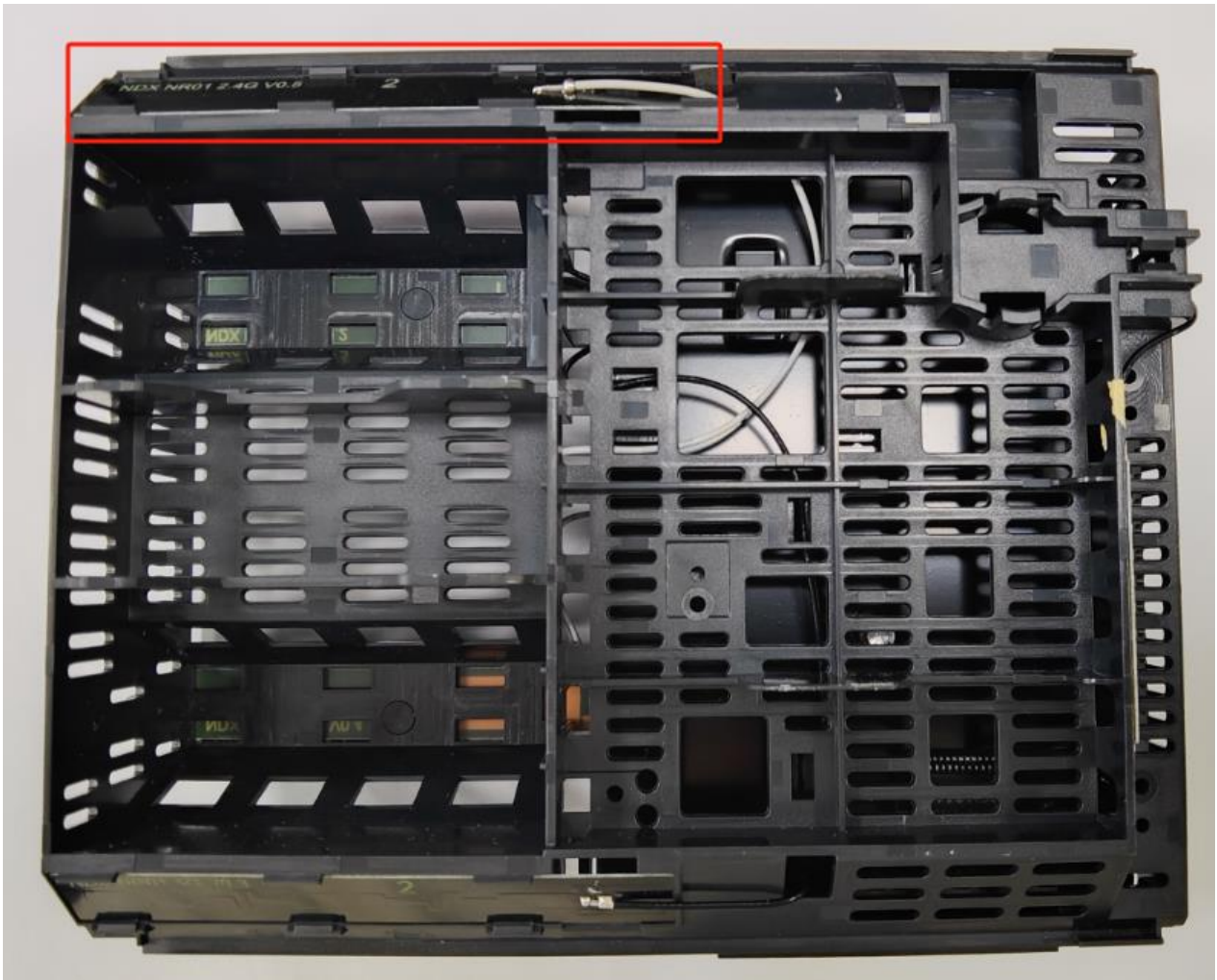




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Antenna assembly picture:



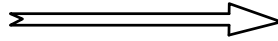


Date: 2024-10-24

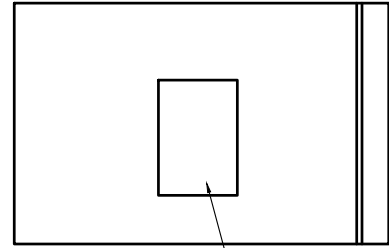
page: 1 of 1

Name : NR01 Antenna	Version: A
	Customer:

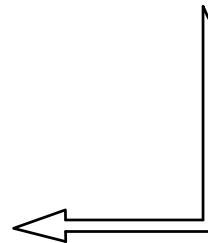
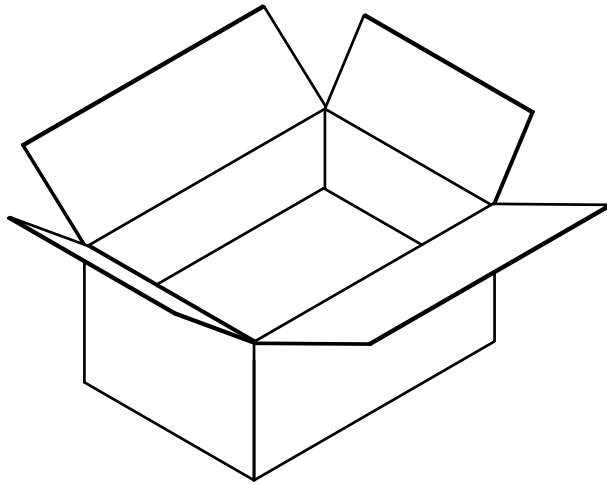
1. The Product



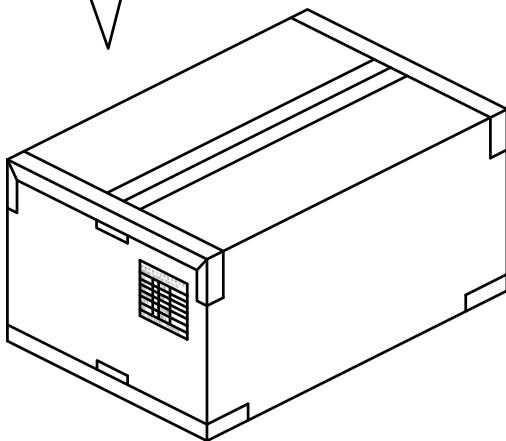
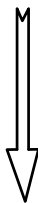
2. 100PCS/per Bag



Label



3. Packing (subject to actual packing) .



DESIGNED By: Kenny

APPROVED By: ZH