



样品封订

# 承认书

## APPROVAL SHEET

客户名称 Customer Name 智微智能 (JWIPC)

产品型号 Product Model N104

客户料号 Customer P/N \_\_\_\_\_

规格描述 Specifications WIFI-MAIN Antenna

南斗星料号 Southstar P/N 3. N201. 0217

制作日期 Production date 2022. 8. 5

制作版本 Revision 1.0

南斗星 (Southstar)		
编制 (FICTION)	品质 (DQE)	研发 (R&D)
客户 (Customer)		
采 购 (PUR)	品质 (QC)	研发 (R&D)

制造厂商：深圳市南斗星科技有限公司

Manufacturer : SHENZHEN SOUTH STAR TECHNOLOGY CO.,LTD

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## 基本参数 (The basic parameters)

A. 电性能 Electrical Characteristics	
Frequency 频率	2400MHz ~ 2500MHz; 5150MHz ~ 5850MHz;
VSWR 电压驻波比	<3
Efficiency 效率	2.4g avg. 51% 5.8g avg. 54%
Impedance 阻抗	50 Ohm
Polarization 极化	Linear
Gain 增益	
B. 材料&物理性能 Material & Mechanical Characteristics	
射频材料 Material of Radiator	Spring piece (304 stainless steel nickelplating)
射频线类型 Cable Type	PIFA Antenna $\varnothing$ 1.13mm Black
接头类型 Connector Type	Fourth generation
重量 weight	
C. 环境 Environmental	
工作温度 Operation Temperature	- 30 ° C ~ + 65 ° C
存放温度 Storage Temperature	- 40 ° C ~ + 70 ° C

## 测试设备 (Test Equipment & Conditions)

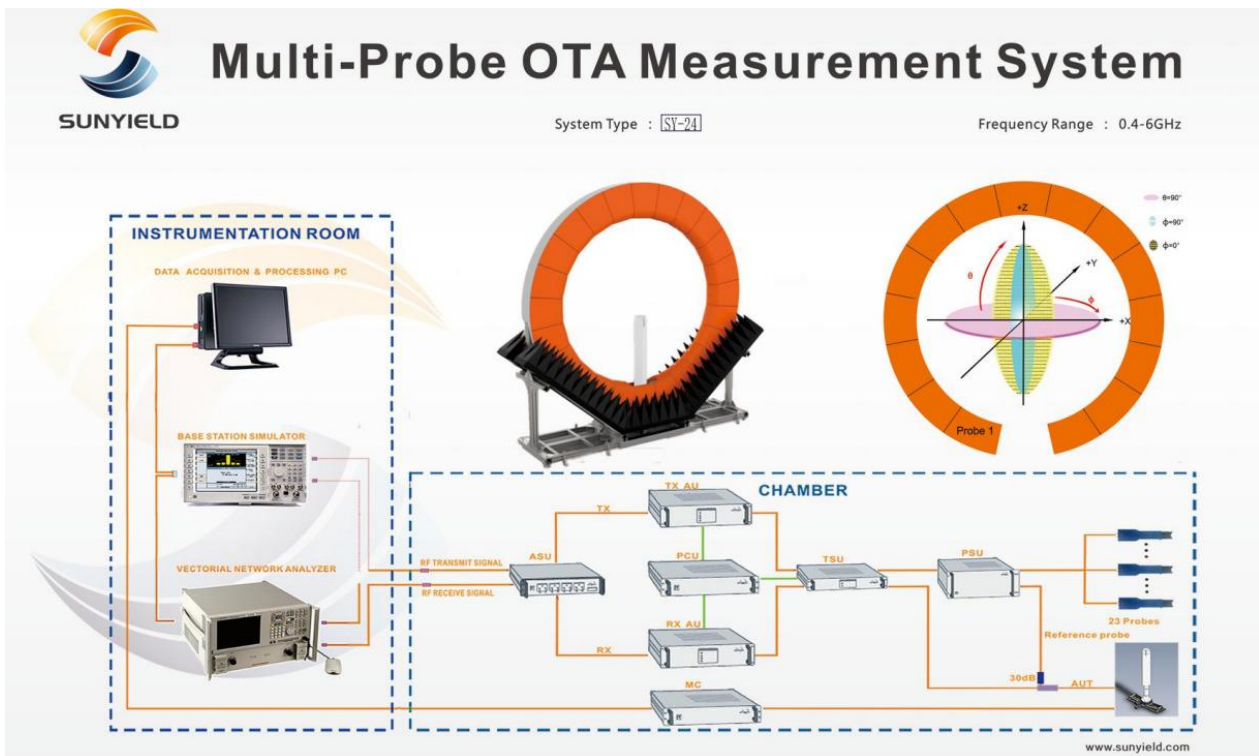
### 1. 网络分析仪 Network Analyzers:

Keysight E5071C

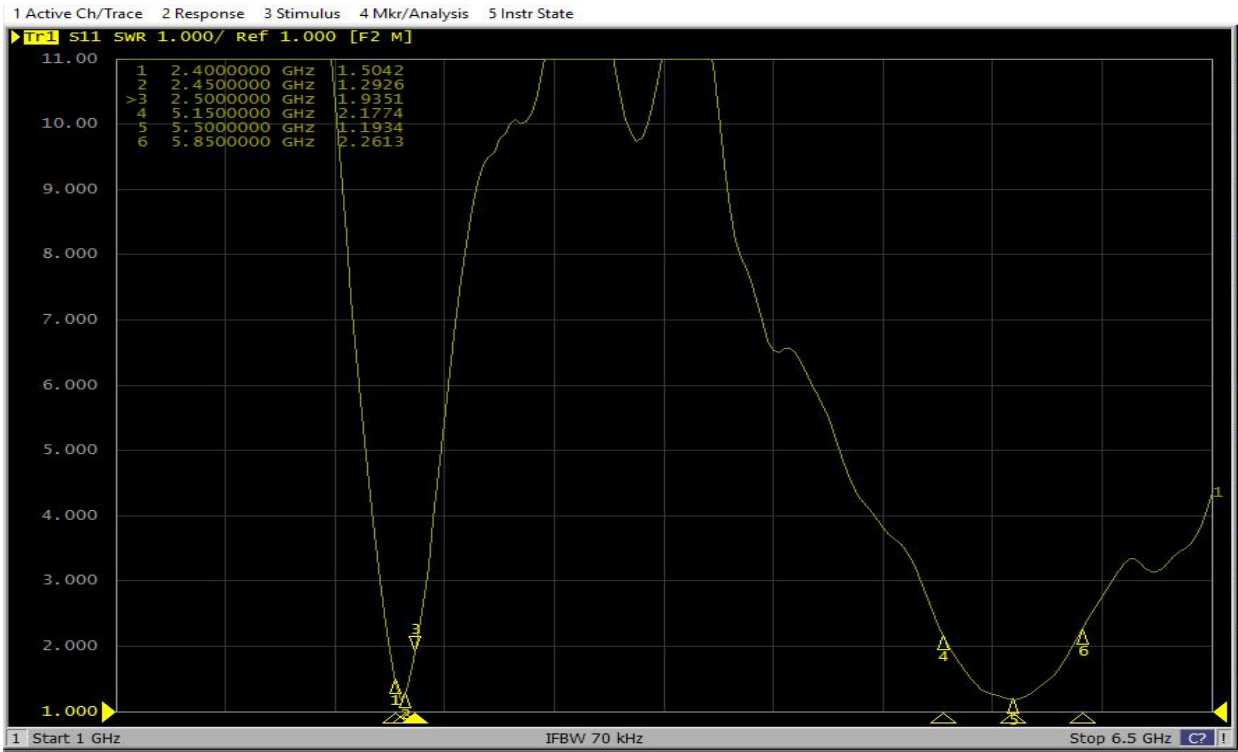
### 2. 综合测试仪 Comprehensive tester:

CMW500 、 MT8000A、 MT8862A

### 3. 3D 暗室测试系统 3D Chamber Test System:



## 天线阻抗Antenna Impedance: WIFI-Main



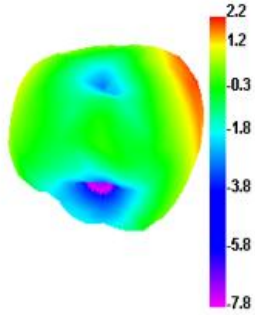
## 效率&增益Efficiency & Gain: WIFI-Main

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	50.76	-2.94	2.2
2410	51.51	-2.88	2.12
2420	51.58	-2.88	2.05
2430	52.23	-2.82	2.18
2440	53.51	-2.72	2.02
2450	54.77	-2.61	1.91
2460	52.99	-2.76	1.87
2470	53.37	-2.73	2.19
2480	51.84	-2.85	2.11
2490	49.44	-3.06	1.91
2500	47.01	-3.28	1.37
avg.	51.73	-2.87	1.99

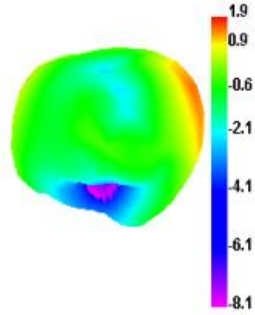
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	46.71	-3.31	4.17
5200	49.86	-3.02	4.11
5250	54.47	-2.64	4.77
5300	54.95	-2.6	4.42
5350	53.52	-2.71	4.21
5400	56.12	-2.51	4.76
5450	58.21	-2.35	4.11
5500	59.12	-2.28	3.96
5550	58.49	-2.33	4.08
5600	56.48	-2.48	3.98
5650	55.88	-2.53	4.95
5700	54.37	-2.65	4.95
5750	54.75	-2.62	4.58
5800	52.82	-2.77	3.65
5850	52.96	-2.76	3.96
avg.	54.58	-2.64	4.31

## 天线3D&2D方向图 Antenna 3D & 2D pattern: WIFI-Main

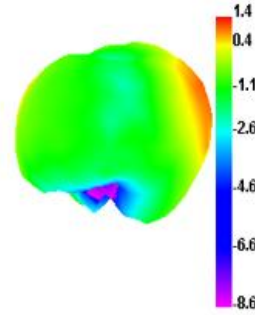
2400.000MHz



2450.000MHz



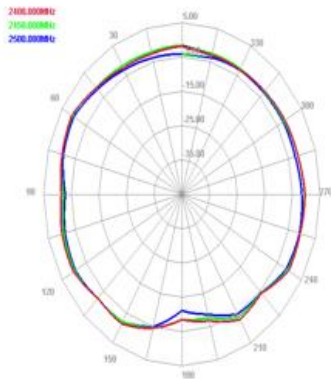
2500.000MHz



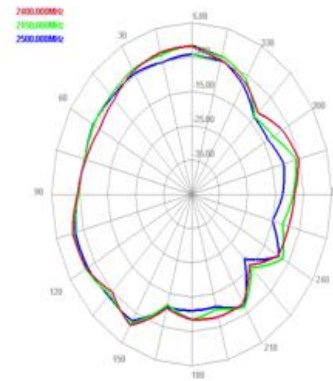
Horizontal



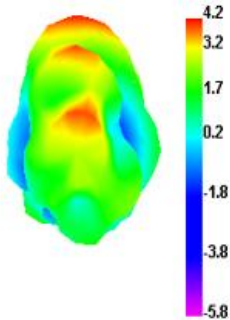
E1 Face



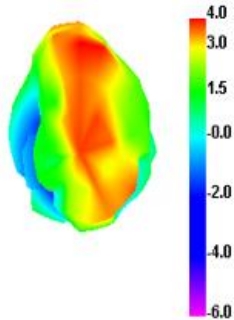
E2 Face



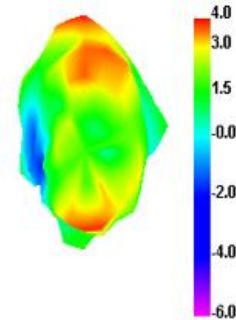
5150.000MHz



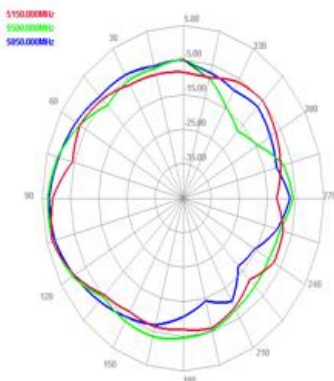
5500.000MHz



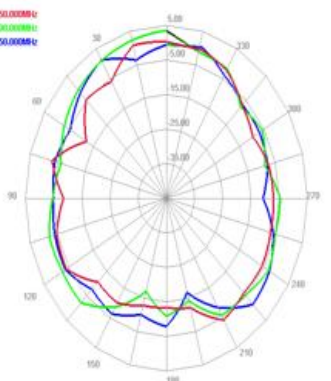
5850.000MHz



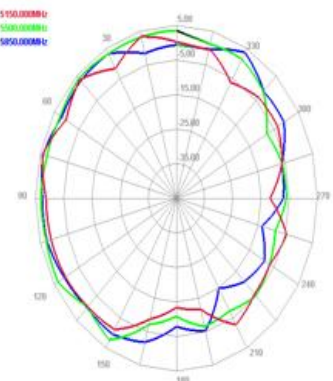
Horizontal



E1 Face



E2 Face



天线装配图片 Antenna assembly picture:

