



产品规格书

Product specifications acknowledgment

制造厂商: 昆山铭众电子科技有限公司
Kunshan Mingzhong Electronic Technology Co., Ltd

产品名称: WiFi 天线
WIFI ANTENNA

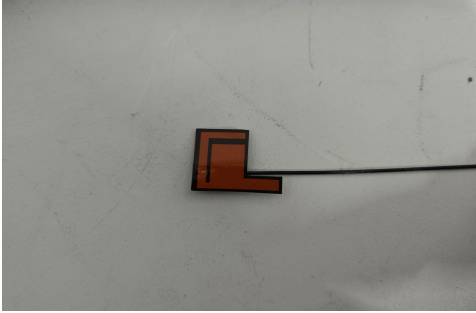
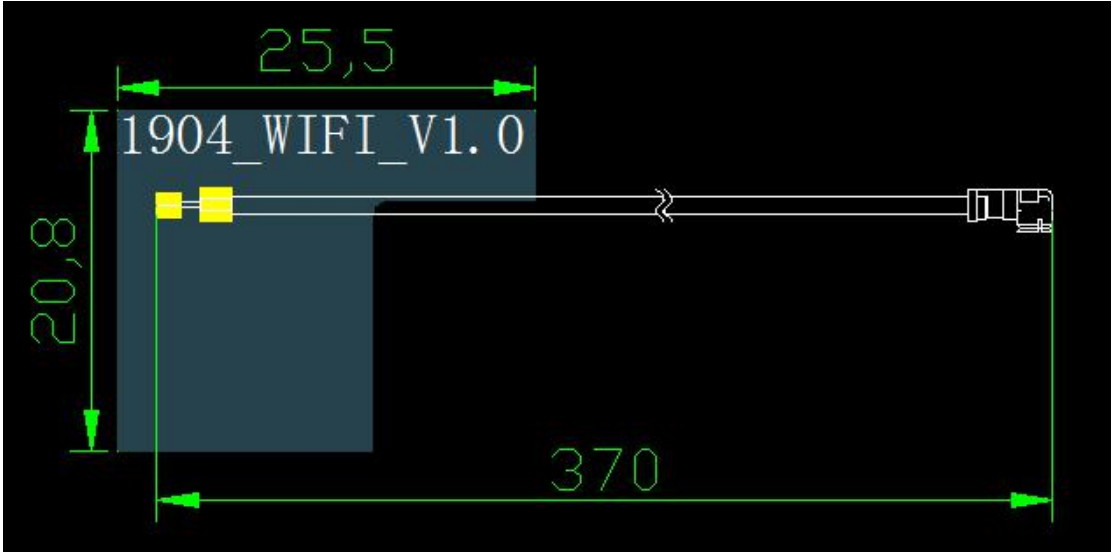
产品型号: 1904 WIFI V1.0

一、封面（Cover）	1
二、目录（Index）	2
三、规格（Product Specification）	3
四、工程图纸（Product Drawing）	3
五、测试设备与环境备（Test Equipment & Conditions）	4
六、性能测试报告告（Test Report）	5

Product Specification

主要技术指标		Main technical specifications	
频率 (MHz)	2400-2500	Frequency Range (MHz)	2400-2500
特性阻抗 (Ω)	50	Impedance (Ω)	50
增益 (dB)	-0.4	Gain (dB)	1.27
输出电压 驻波比	≤2.0	VSWR	≤2.0
连接方式	IPEX	Connector Type	IPEX
物理性能			
天线尺寸 (mm)	25.5*20.8		
材质	FPC		
馈线	SY137	黑色	370mm

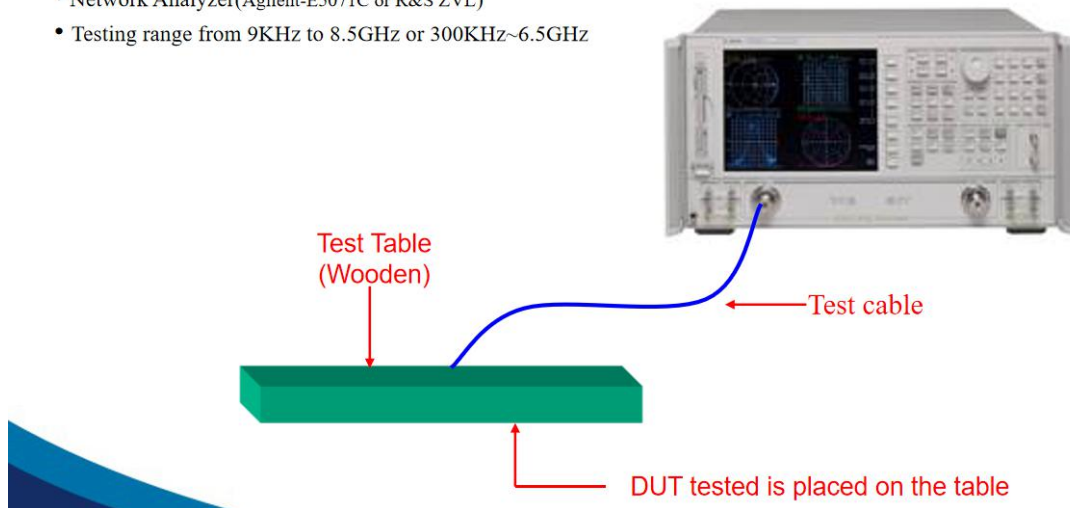
Product Drawing



Test Equipment & Conditions

S-Parameter test

- Network Analyzer(Agilent-E5071C or R&S ZVL)
- Testing range from 9KHz to 8.5GHz or 300KHz~6.5GHz



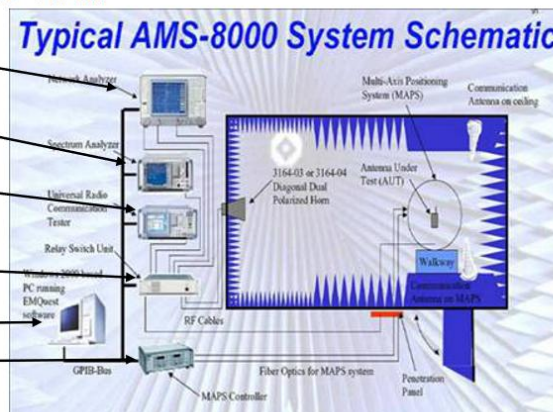
3D Chamber Structure

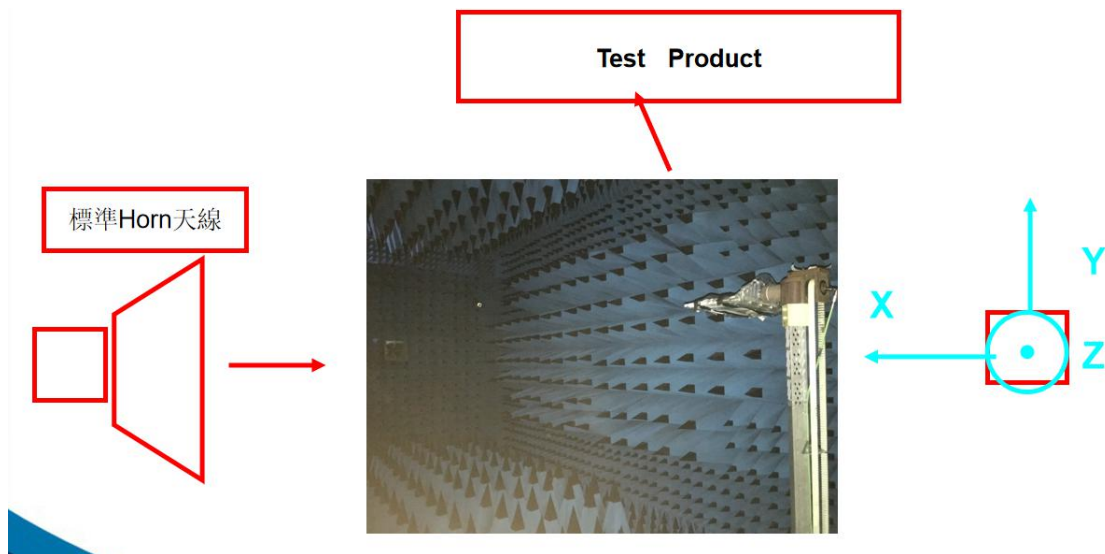
- ETS-Lindgren AMS-8000 Series System Components
- Chambers
- EMQuest EMQ-100 Software
- Positioning Systems
- Chamber Room Size: L*W*H=7.3*3.7*3.7 M

VSWR were performed using an Agilent S-parameter Network Analyzer.



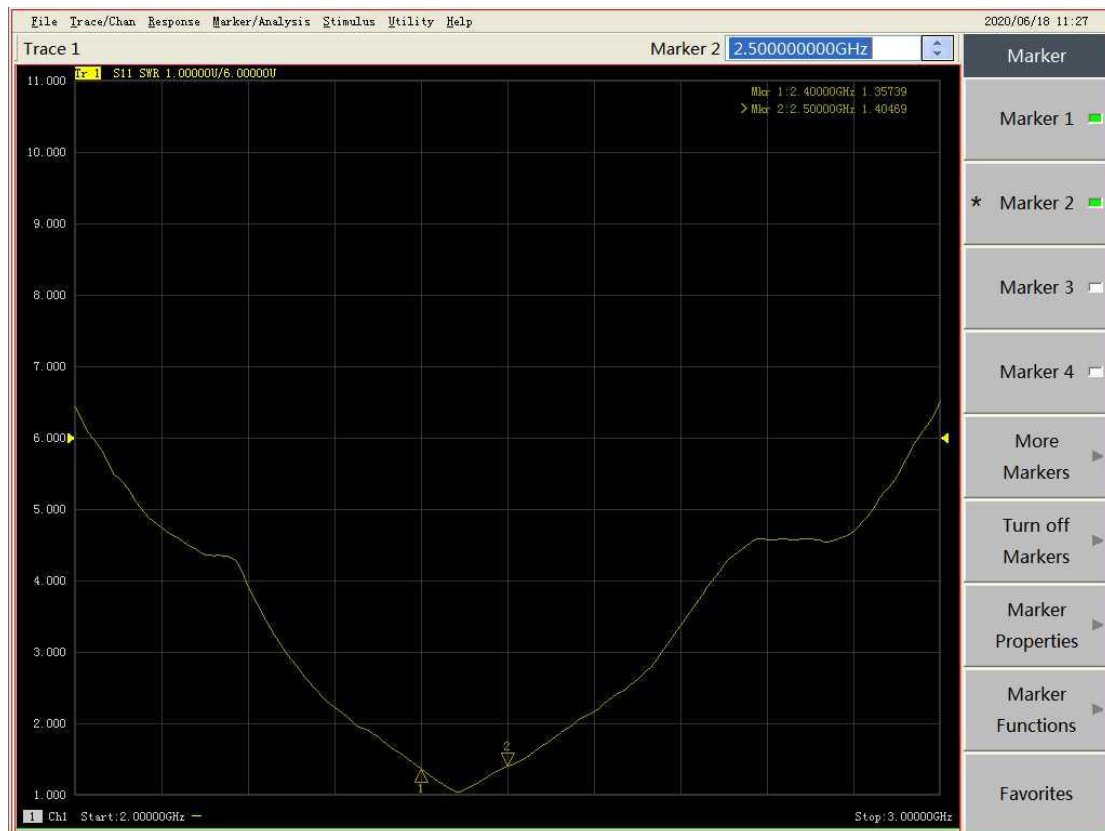
- **Network Analyzer**
Agilent E5071C
- **Spectrum Analyzer**
R&S FSP13
- **Universal Radio Communication Tester**
R&S CMU200
- **Switch**
Agilent 3499B
- **PC and Software**
- **Rotate Controller**
ETS-Lindgren 2090





Test Report

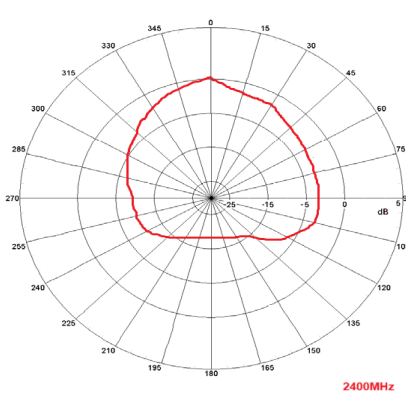
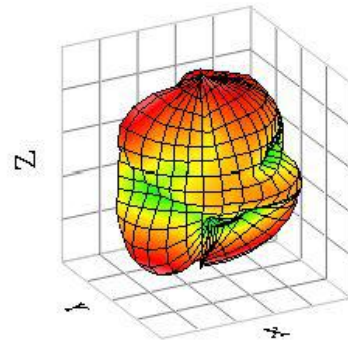
VSWR



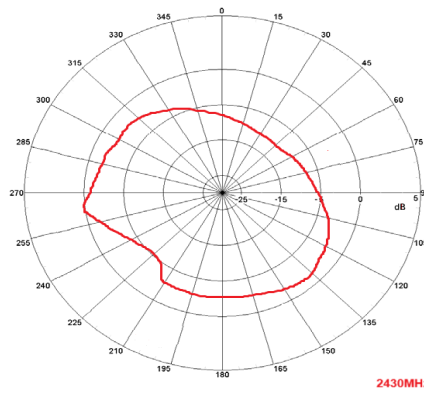
Radiation Pattern

2D Radiation Pattern

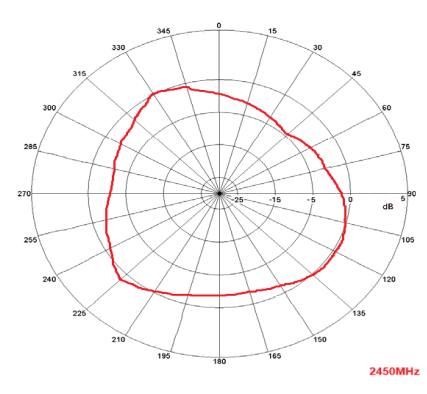
Radiation pattern of 2450 MHz



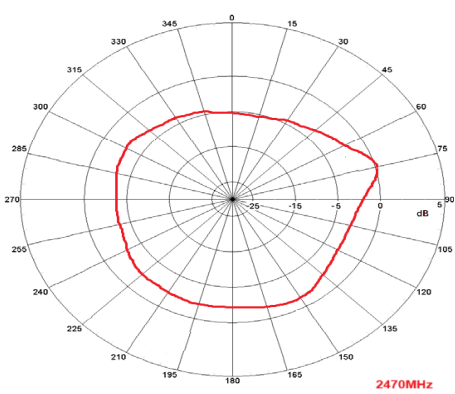
2400MHz



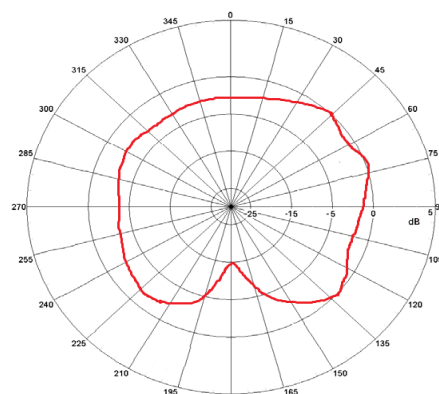
2430MHz



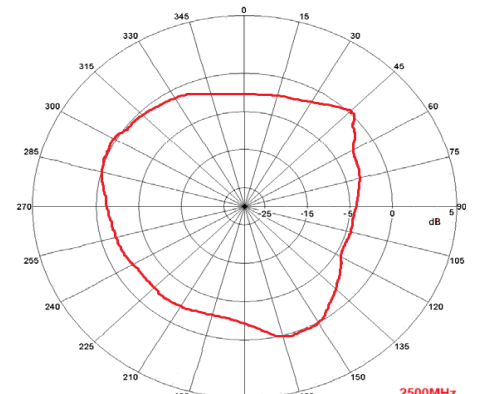
2450MHz



2470MHz



2480MHz



2500MHz

Efficiency(整机)

Frequency (MHz)	Efficiency(%)	Efficiency(dB)	Gain(dBi)
2400	29.09	-5.36	0.31
2412	30.12	-5.21	0.29
2437	31.36	-5.04	0.56
2442	33.86	-4.70	0.79
2450	33.60	-4.74	1.27
2462	34.12	-4.67	1.03
2484	35.59	-4.49	0.40
2500	34.11	-4.67	0.69