



Product specifications acknowledgment

Manufacturer: Shenzhen Deshigin Technology Co., Ltd

Description: WiFi Antenna

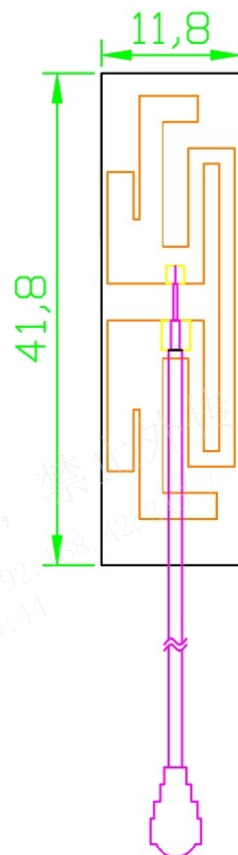
Product Type: WIFI ANT

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Product Specification

Main technical specifications			
Frequency Range (MHz)		2400–2500	
Impedance (Ω)		50	
Gain (dBi)		−13.31	
VSWR		≤3.0	
Connector Type		MCX	
Physical Properties			
Size (mm)	39.8*11.8		
Material	FPC		
Cable	SY113	black	240mm

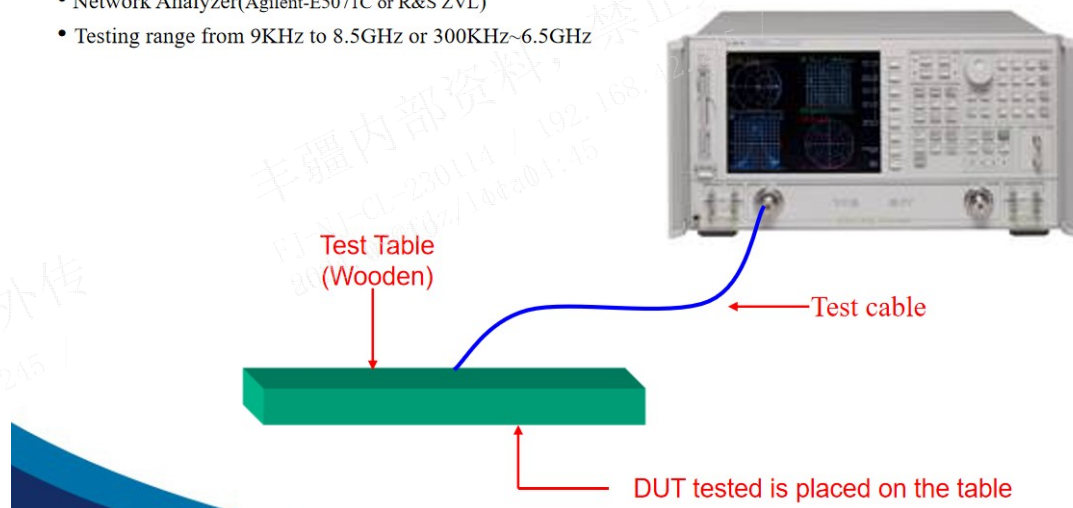
Product Drawing



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

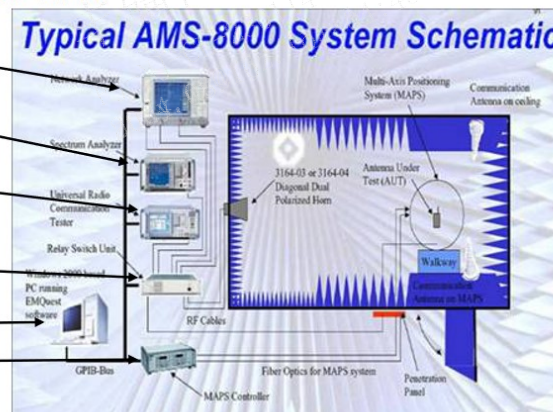
- ETS-Lindgren AMS-8000 Series System Components
- Chambers
- EMQuest EMQ-100 Software
- Positioning Systems
- Chamber Room Size: L*W*H=7.3*3.7*3.7 M

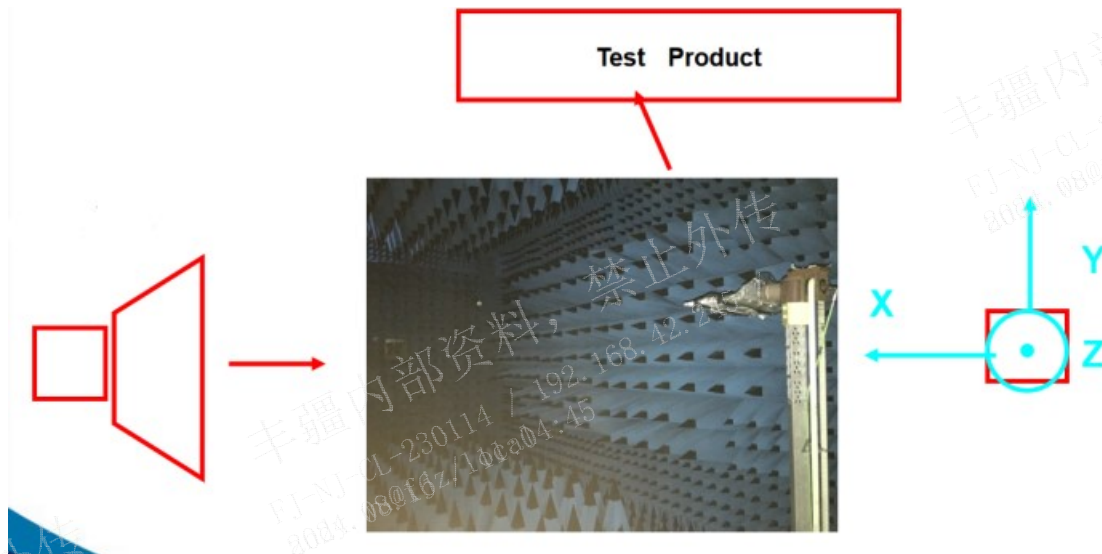
VSWR were performed using an Agilent S-parameter Network Analyzer.



NA E5071C

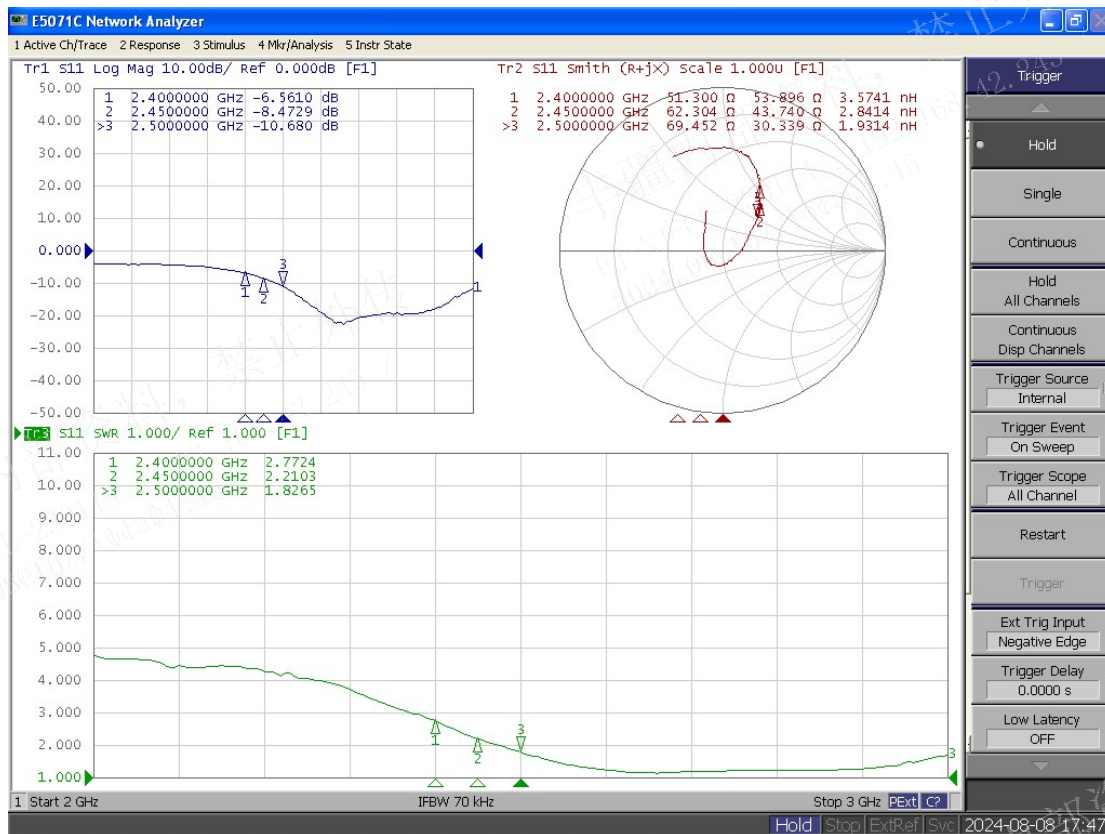
- **Network Analyzer**
Agilent E5071C
- **Spectrum Analyzer**
R&S FSP13
- **Universal Radio Communication Tester**
R&S CMU200
- **Switch**
Agilent 3499B
- **PC and Software**
- **Rotate Controller**
ETS-Lindgren 2090



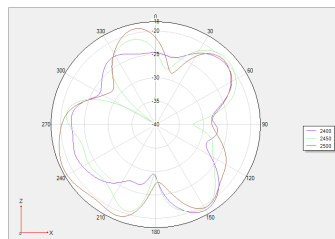


Test Report

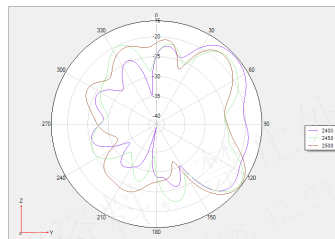
VSWR



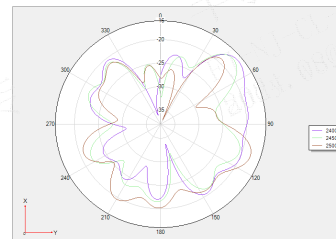
Radiation Pattern



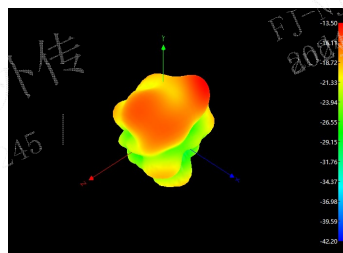
Phi=0°



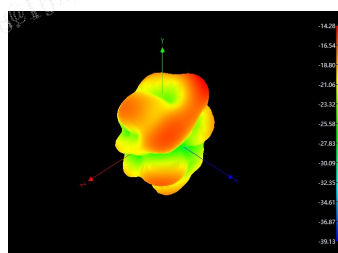
Phi=90°



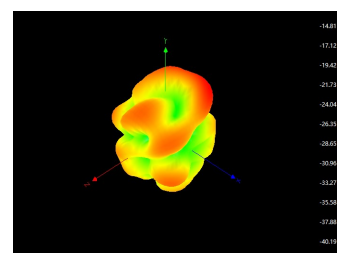
Theta=90°



2.4GHz



2.45GHz



2.5GHz

Efficiency

Frequency (MHz)	Efficiency(%)	Efficiency(dB)	Gain(dBi)
2400	8.8	-10.5	-13.5
2410	8.2	-10.8	-13.94
2420	8.1	-10.9	-14.09
2430	8.4	-10.7	-13.84
2440	8.5	-10.7	-14.4
2450	8.9	-10.5	-14.28
2460	9.6	-10.1	-14.38
2470	9.7	-10.1	-13.31
2480	10.2	-9.9	-13.42