

LYNwave Technology

Antenna & Thermal solution provider

Antenna Field Test Report

Company: Miliwave
Project Name: 2G Antenna
Model Name: ALX19P-051AA2-02
Feature: WiFi 2G
Application:

Date	Owner	Revision
2024/02/21	Zino	1. S3-1,Field test

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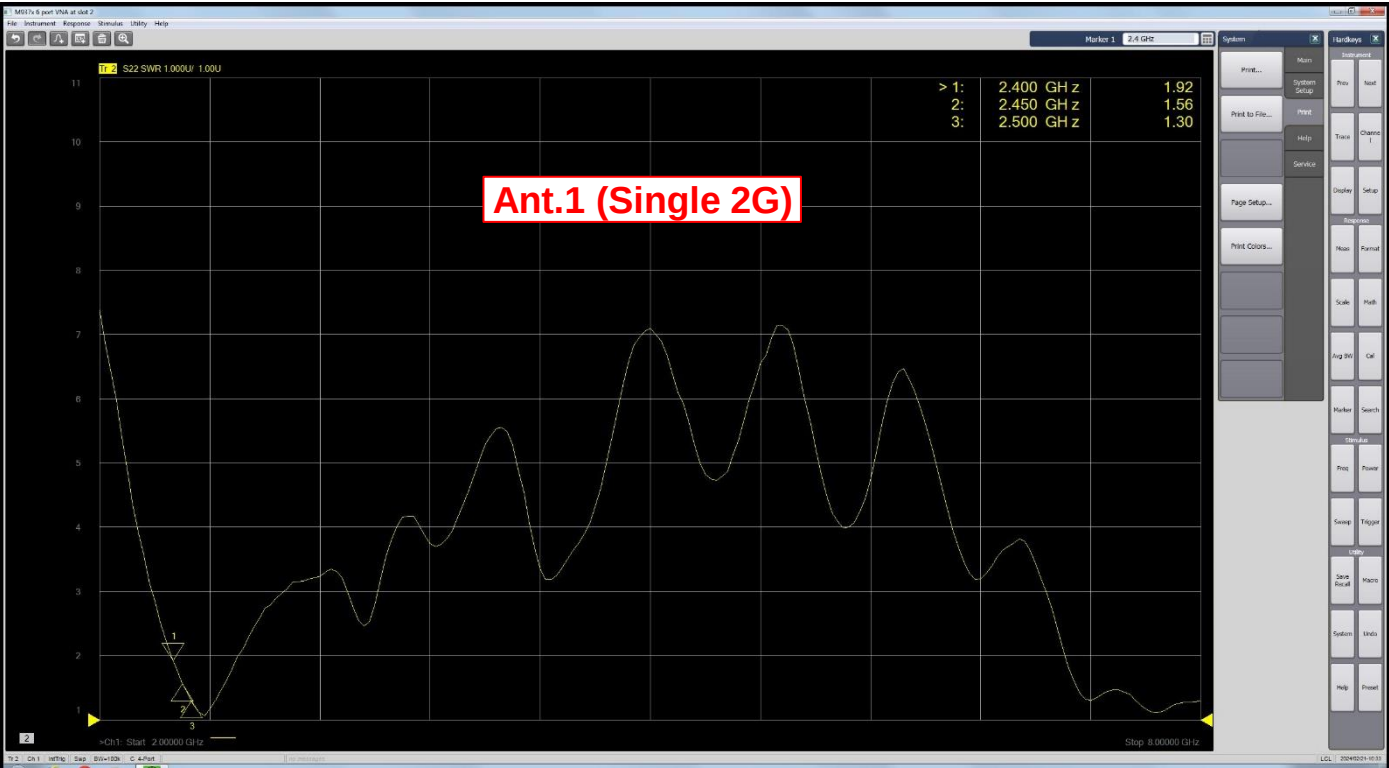
Antenna Placement

Antenna	Description	Frequency	Cable Length (mm)	Cable Color	Material
Ant.1	2G	2400~2500MHz	130	Black	FR-4 PCB



Front View

S-parameters



Gain Table

	Frequency(MHz)	2400	2450	2500
Ant.1	Peak Gain(dBi)	2.2	2.5	2.9
	Efficiency(%)	75	79	82

The antenna characteristics

- **VSWR** < 2
- **Gain** : 2.2 ~ 2.9dBi
- **Efficiency** >70%

Equipment :
Satimo

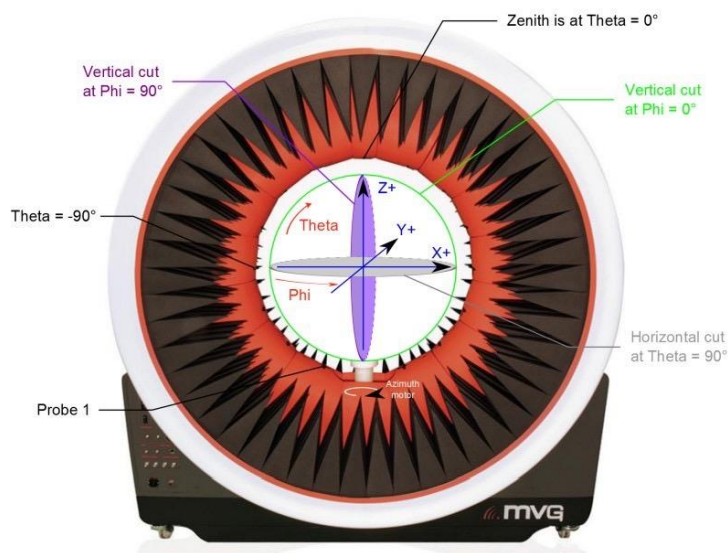
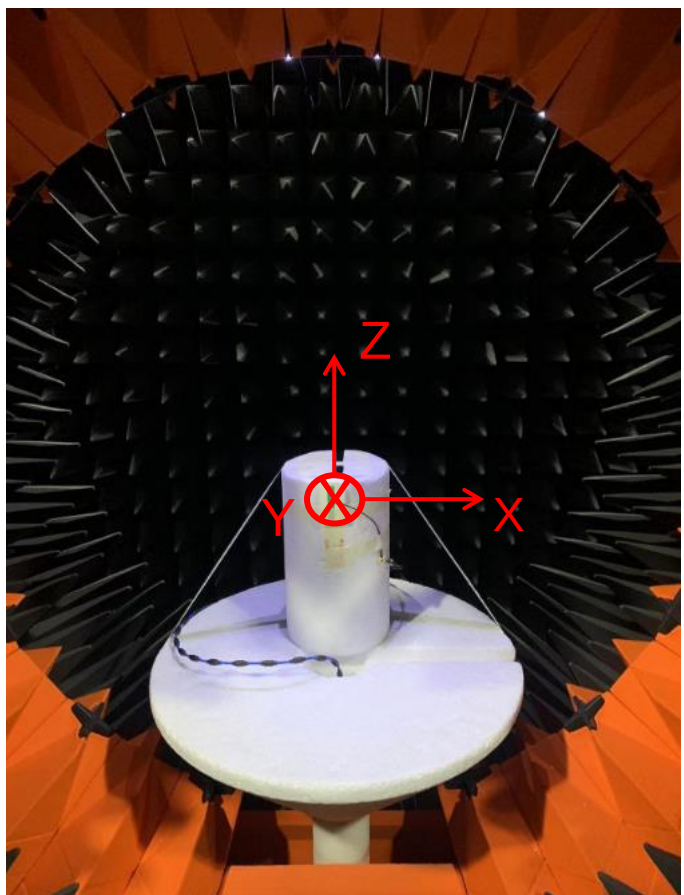


Figure 3.12: StarLab spherical coordinate system

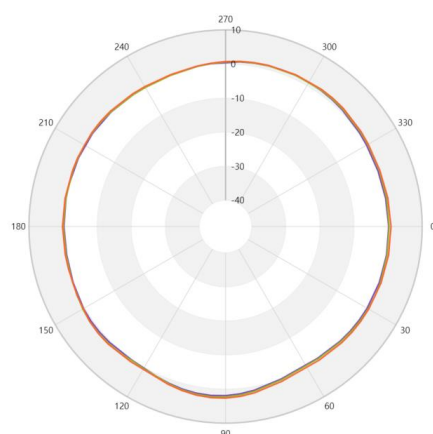


Ant.3_5GHz 2D Radiation Pattern

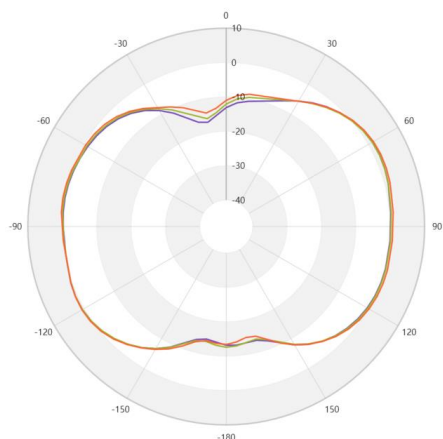
Frequency(MHz) : 2400~2500

Radiation Pattern :

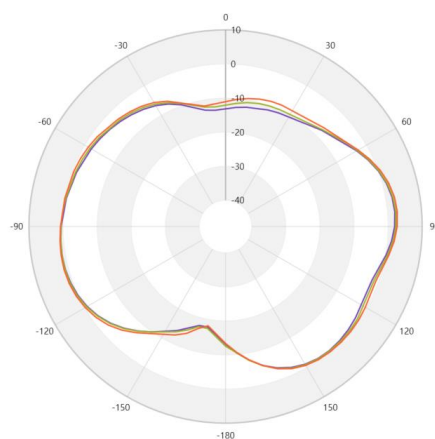
Azimuth Plane
Theta = 90



Elevation Plane
phi = 0

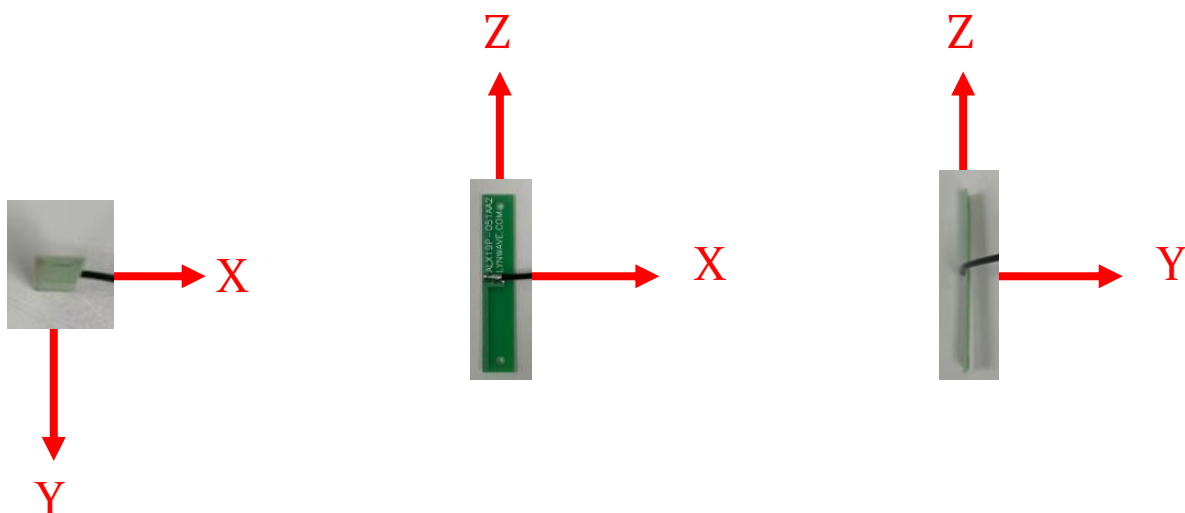


Elevation Plane
phi = 90



— 2400.00 MHz
— 2450.00 MHz
— 2500.00 MHz

Setup :



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