



# 威潤 BLE

## ARY196-3092-006-00

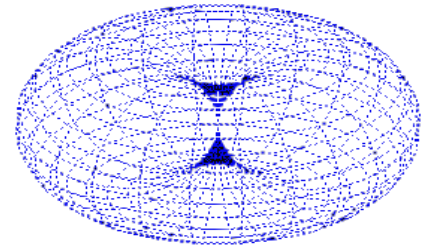
**Engineer : Ben**

**Report date : 2024/08/01 REV.1**



# Executive Summary

- **Revision History**
- **Antenna Specification**
- **Antenna Photo**
- **Antenna Measurement Vector Network Analyzer**
  - **S-Parameter Result**
- **The Antenna Anechoic Chamber Measurement**
  - **Antenna Measurement Photo**
  - **Antenna Measurement**
    - **Peak Gain 、 Efficiency Result**
    - **2D Antenna Radiation Pattern Result**



# Revision History

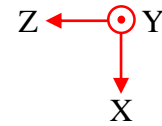
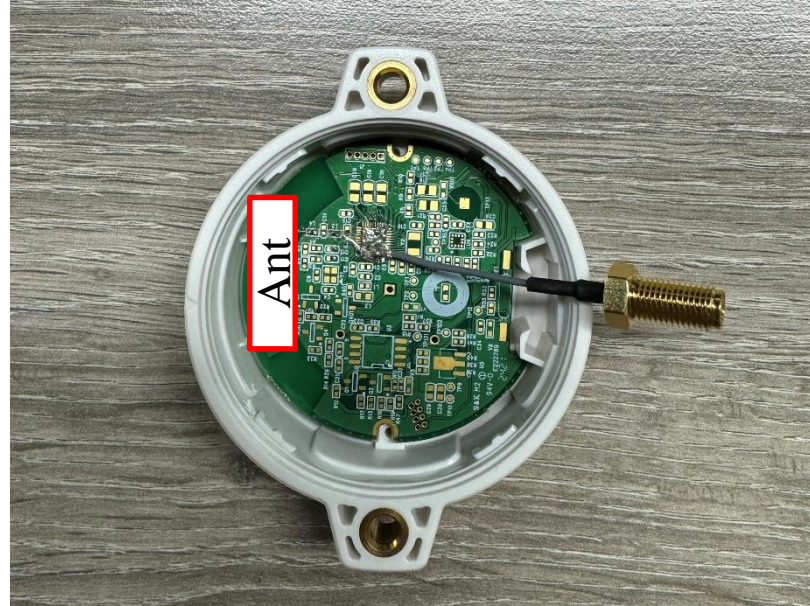


| Revision | Date       | Engineer | Description  |
|----------|------------|----------|--------------|
| 01       | 2024/08/01 | Ben      | New Release. |
|          |            |          |              |
|          |            |          |              |

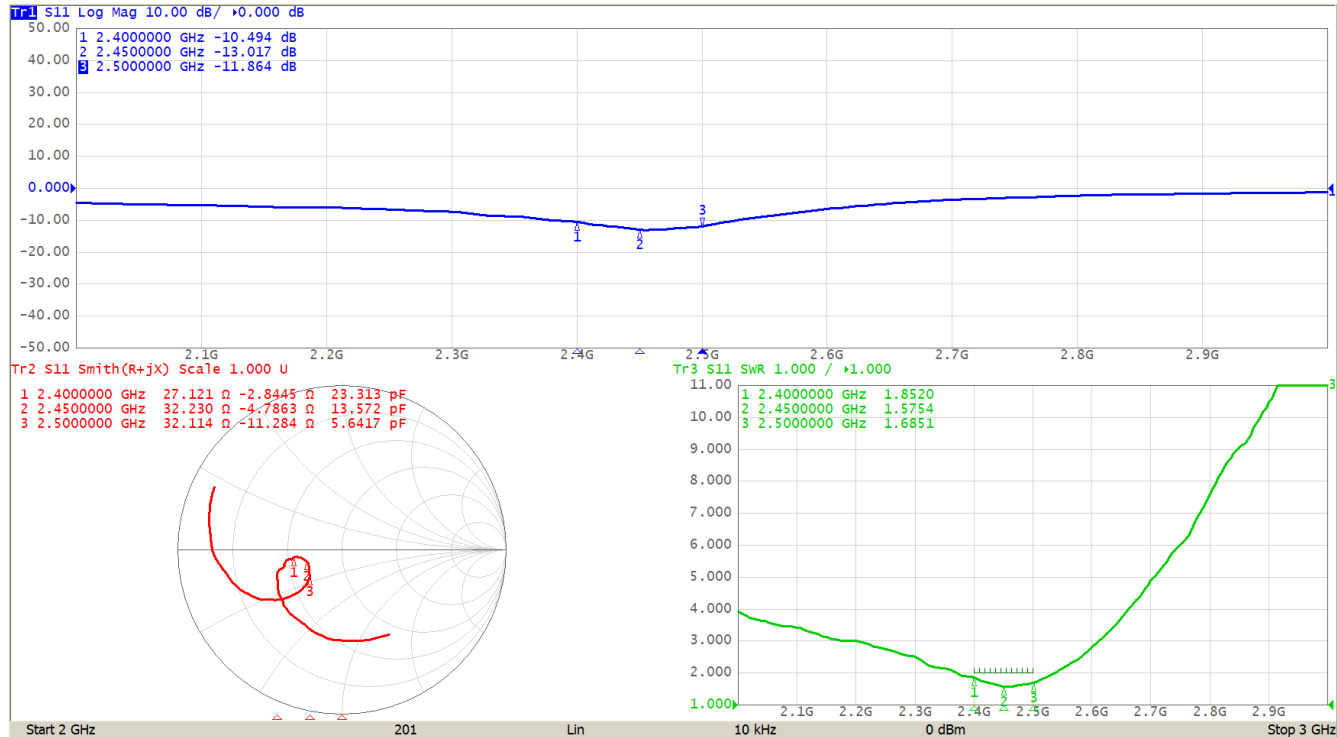
# Antenna Specification

| Item                | ARY196-3092-006-00 |
|---------------------|--------------------|
| Operating Frequency | 2400-2500          |
| Return Loss         | 10 dB              |
| Peak Gain           | 1.04 dBi(Max.)     |
| Antenna Type        | PCB                |
| V.S.W.R             | 2 : 1              |
| Efficiency          | 61 %(Max.)         |

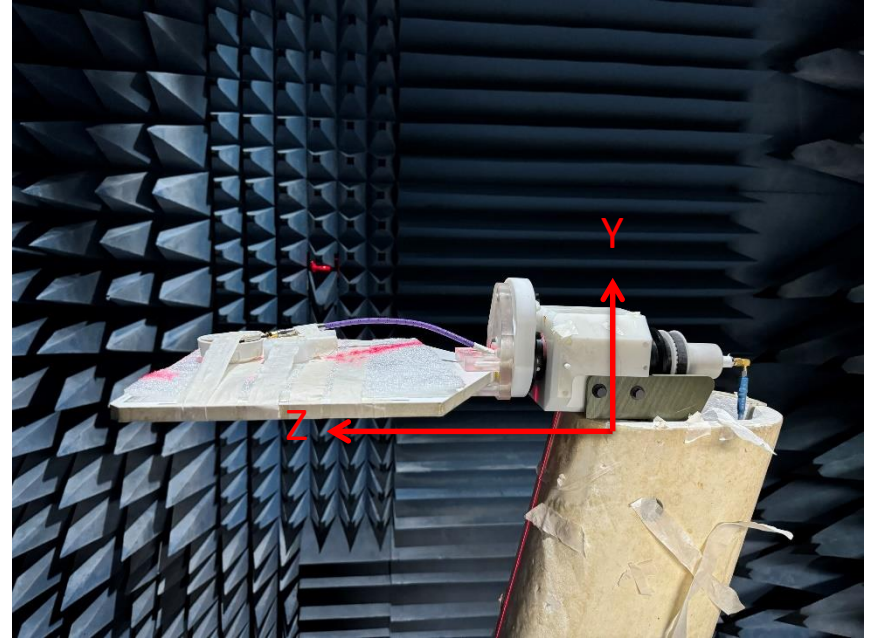
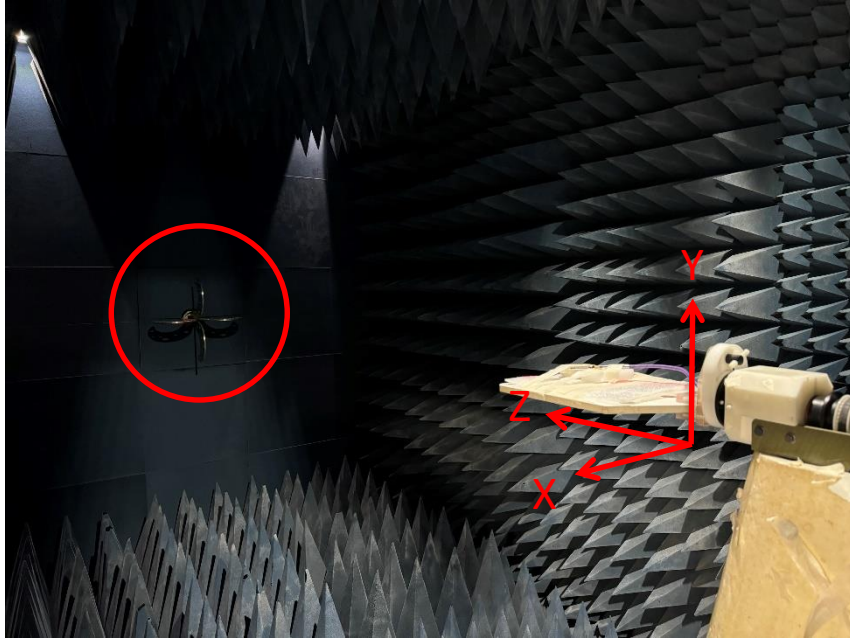
# Antenna Photo



# S-Parameter Result



# Chamber Measurement Photo

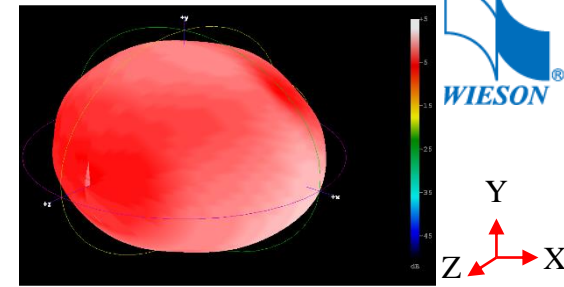


# Peak Gain & Efficiency

| Frequency (GHz) | Peak Gain (dBi) | 3D Radiation Efficiency (%) |
|-----------------|-----------------|-----------------------------|
| 2.4             | -0.04           | 51                          |
| 2.41            | 0.41            | 55                          |
| 2.42            | 0.75            | 59                          |
| 2.43            | 0.52            | 55                          |
| 2.44            | 0.73            | 57                          |
| 2.45            | 0.8             | 57                          |
| 2.46            | 0.86            | 58                          |
| 2.47            | 1.02            | 60                          |
| 2.48            | 0.77            | 57                          |
| 2.49            | 1.02            | 60                          |
| 2.5             | 1.04            | 61                          |

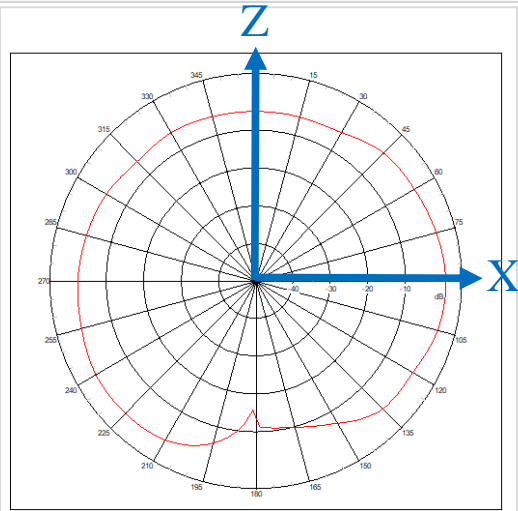


# 2D Antenna Pattern

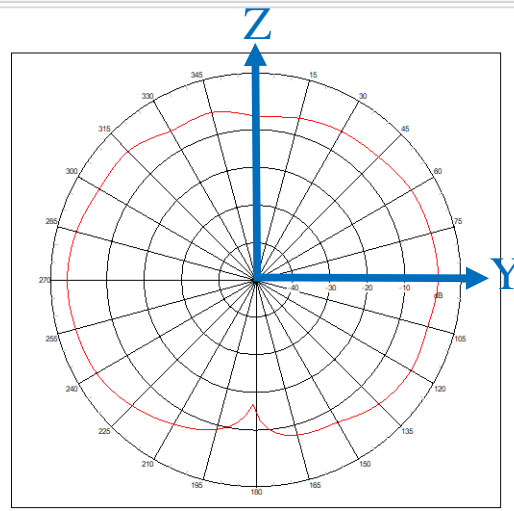


Frequency : 2450 MHz

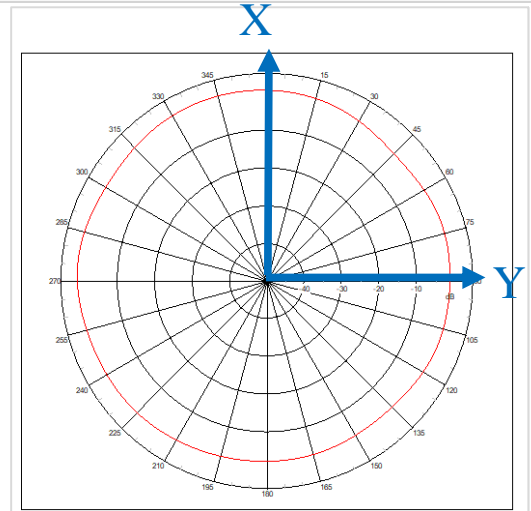
### XZ-plane



### YZ-plane



### XY-plane



Far-field amplitude limits:

Max: 5dB

min: -50dB



創造完美連結

MAKING THE PERFECT CONNECTION

[www.wieson.com](http://www.wieson.com)