

# 2.4G 36.4x8 L62 CM1 Antenna

## FEATURES & BENEFITS



- Welding RG 1.13 cable, Ipex connector, 3M sticker for easy installation.
- Mounting to: non-conductive surface
- Installation type: adhesive

## APPLICATIONS

- Smartphones, tablets, laptops, and notebooks
- Smart home devices like home security systems
- Internet of Things (IoT), wearable devices, E-health devices
- Networking equipment like WiFi routers, WiFi extenders and repeaters
- Asset tracking, point of sale (POS) systems
- Automotive like V2X communication
- Smart city infrastructure like public WiFi hotspots, environmental monitoring



## ORDER INFORMATION

|               |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| Product Name  | 2.4G 36.4x8.0 L62 CM1 Antenna                                               |
| Part Number   | AIWF032                                                                     |
| Dimensions    | 36.4x8.0mm                                                                  |
| Weight        | 0.3g                                                                        |
| Color         | Black                                                                       |
| Antenna Cable | Default IPEX1 RF 1.13 black coaxial cable ( Ø 1.13 x 62 mm) , customizable. |

## REFERENCE GUIDE

|                               |                 |
|-------------------------------|-----------------|
| Technical Features (MHz)      | 2400-2500       |
| Max VSWR                      | 2.0:1           |
| Max Efficiency                | 73.04%          |
| Peak Gain                     | 2.39dBi         |
| Radiation Pattern             | Omnidirectional |
| Polarization                  | Linear          |
| Input Impedance               | 50 Ω            |
| Operating Temperature         | -40°C to +85°C  |
| Storage Temperature           | -40°C to +85°C  |
| Relative Humidity             | 10 to 70%       |
| Material Substance Compliance | RoHS Compliant  |
| Dimensions (L x W x H)        | 36.4x8.0mm      |

MyAntenna RF Technology Co., Ltd

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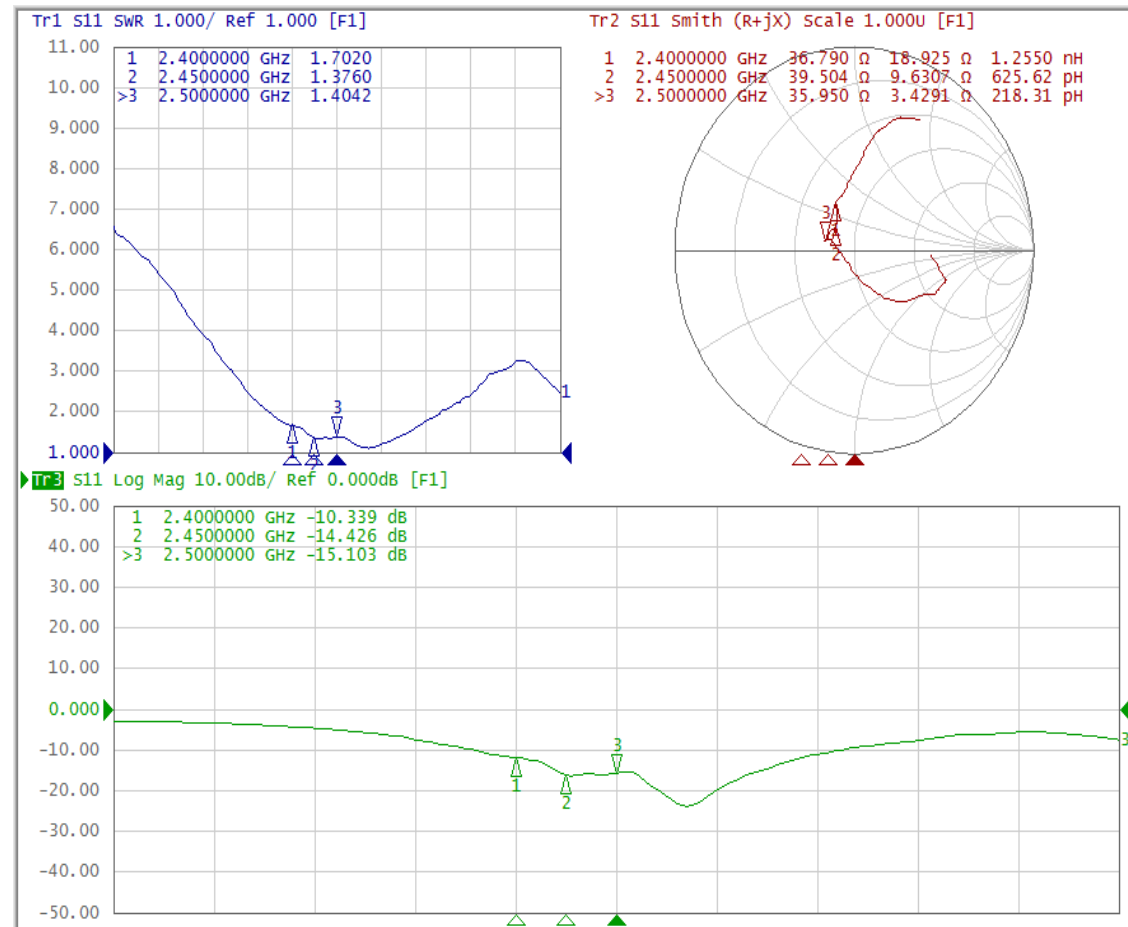
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## ELECTRICAL PERFORMANCE

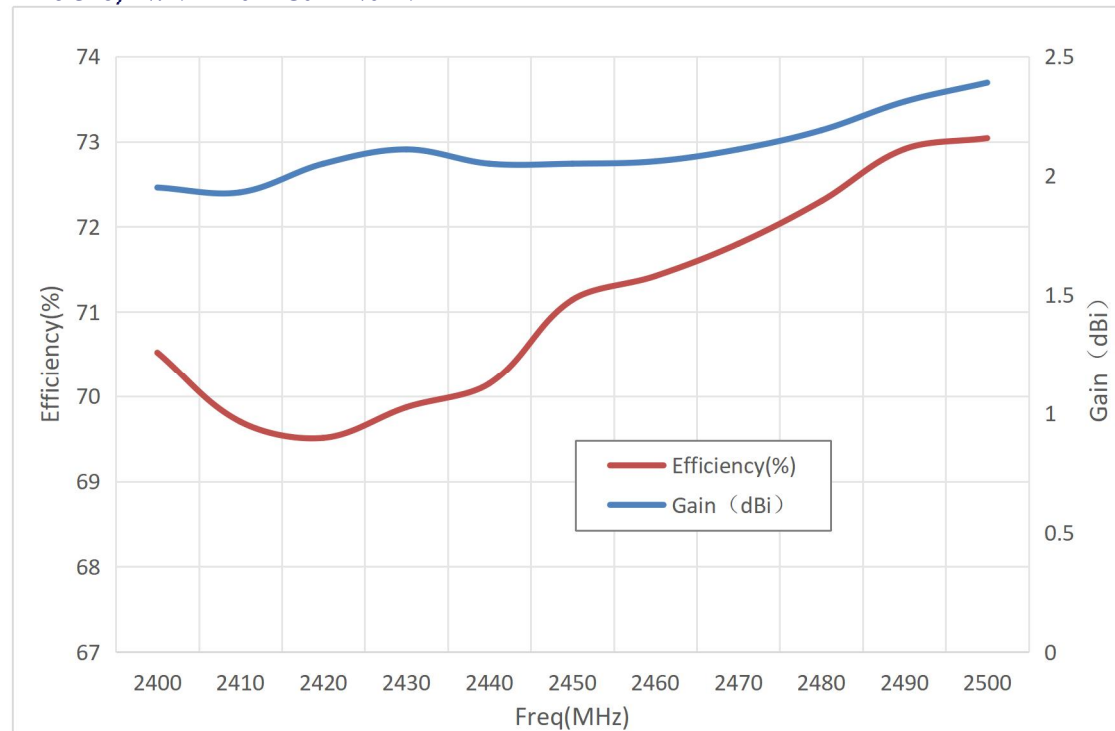
- Note

All data displayed in the "ELECTRICAL PERFORMANCE" section were measured using a 62mm-long RF 1.13 cable

### Return Loss

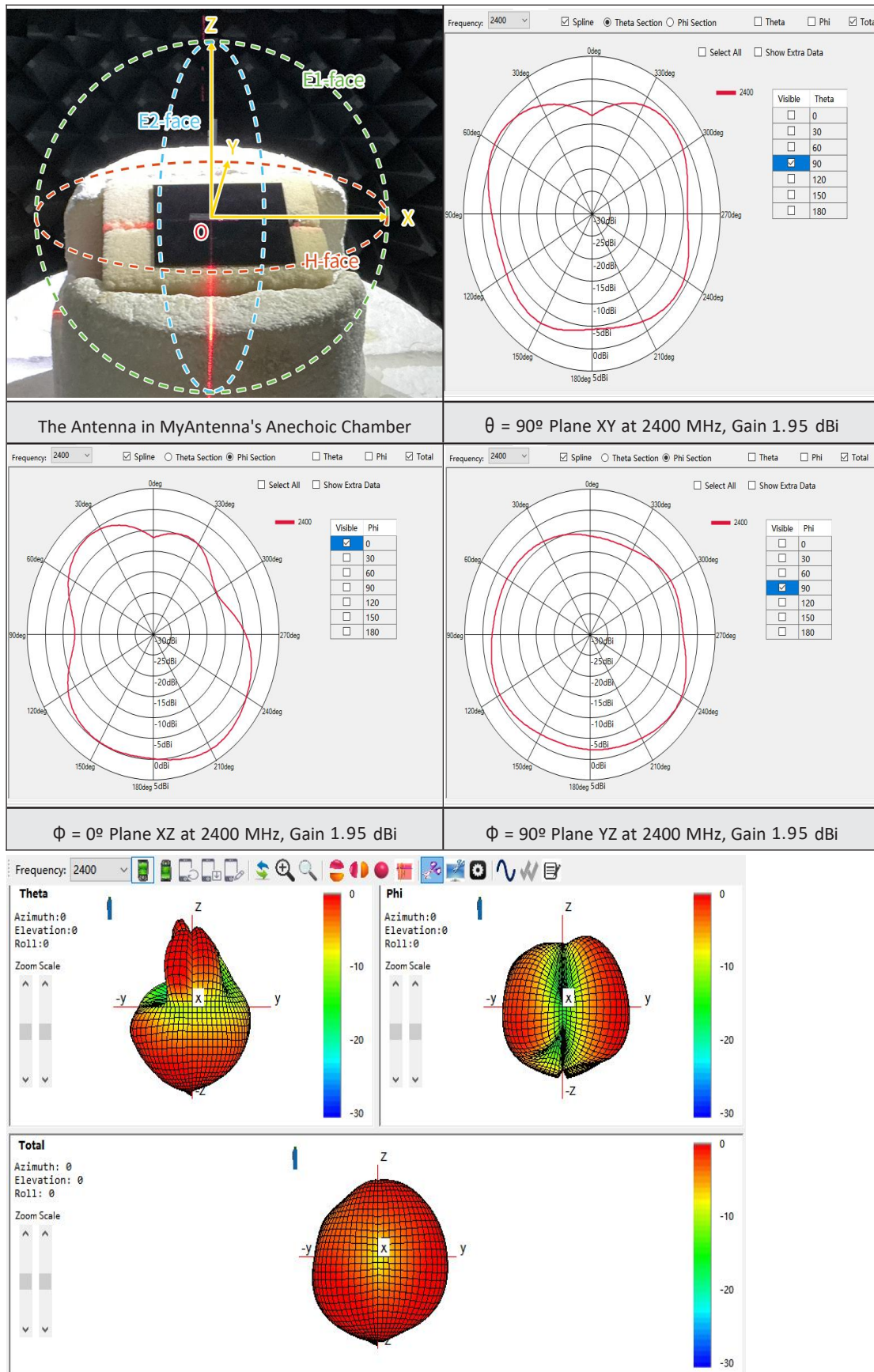


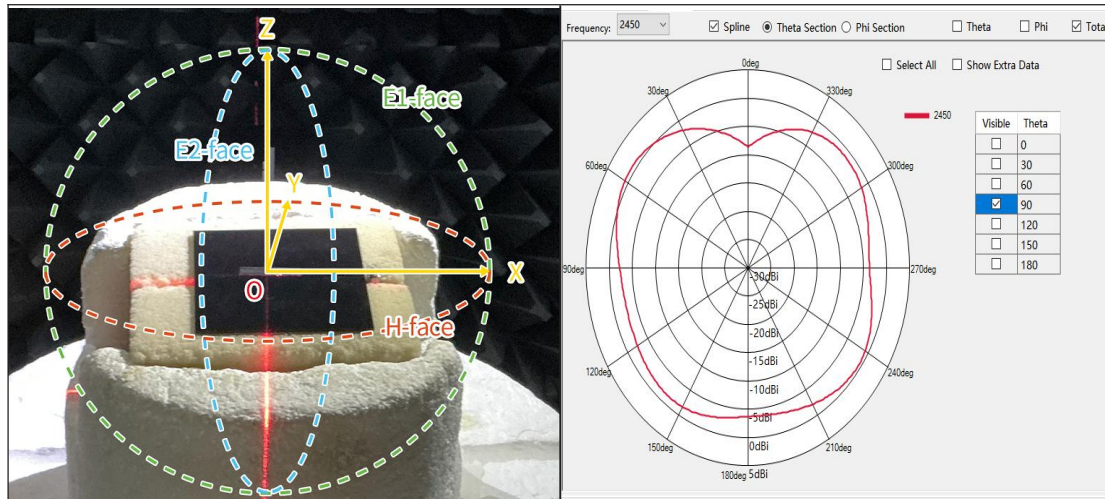
## Efficiency (%) And Gain (dBi)



| Freq(MHz) | Gain (dBi) | Efficiency(%) |
|-----------|------------|---------------|
| 2400      | 1.95       | 70.52         |
| 2410      | 1.93       | 69.70         |
| 2420      | 2.05       | 69.51         |
| 2430      | 2.11       | 69.87         |
| 2440      | 2.05       | 70.15         |
| 2450      | 2.05       | 71.14         |
| 2460      | 2.06       | 71.42         |
| 2470      | 2.11       | 71.80         |
| 2480      | 2.19       | 72.30         |
| 2490      | 2.31       | 72.91         |
| 2500      | 2.39       | 73.04         |

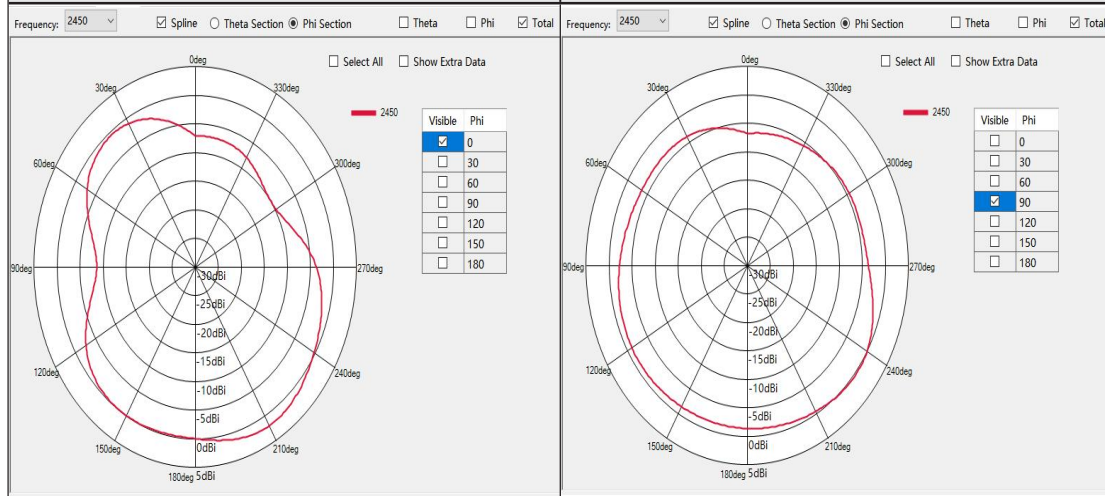
## RADIATION PATTERNS





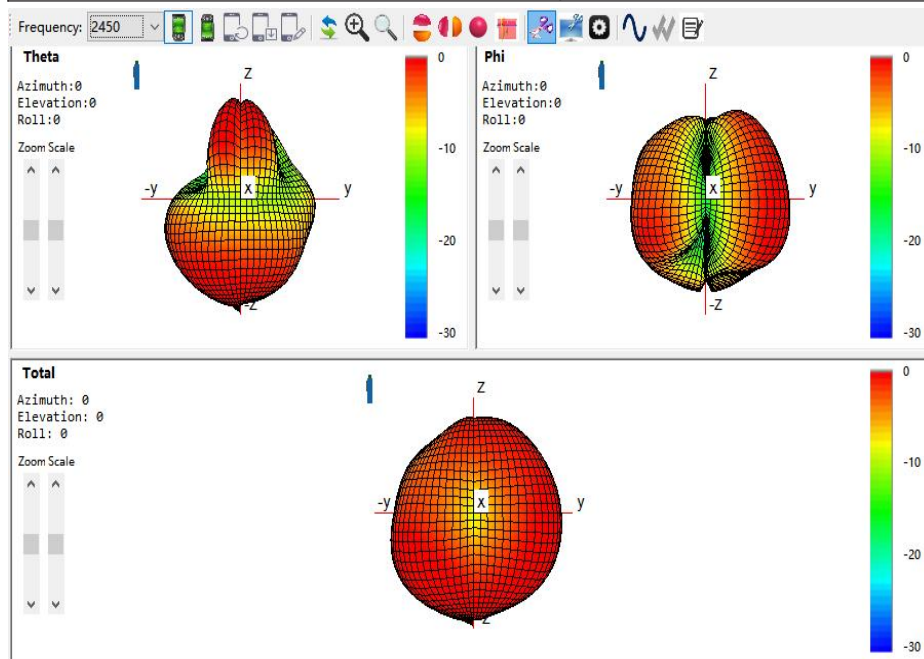
The Antenna in MyAntenna's Anechoic Chamber

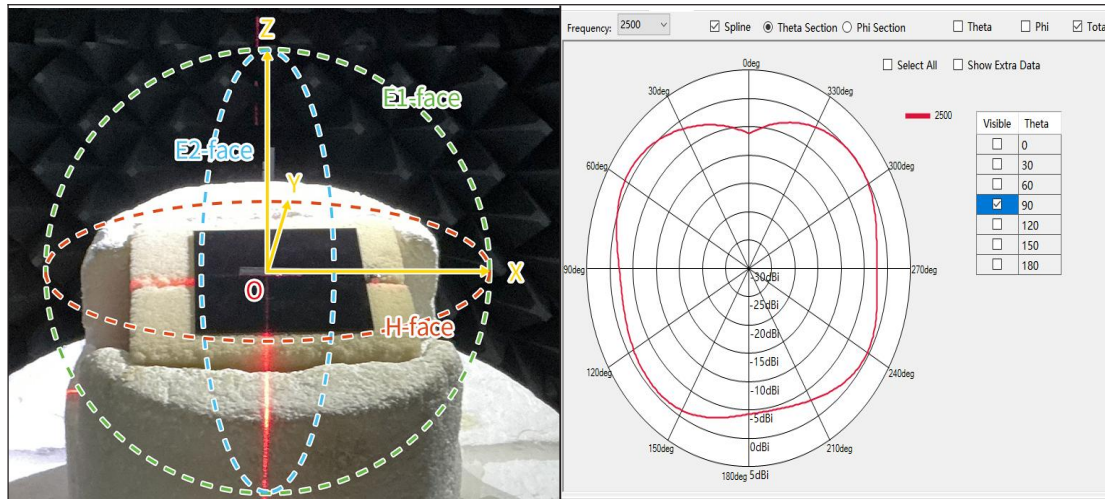
$\theta = 90^\circ$  Plane XY at 2450 MHz, Gain 2.05 dBi



$\phi = 0^\circ$  Plane XZ at 2450 MHz, Gain 2.05 dBi

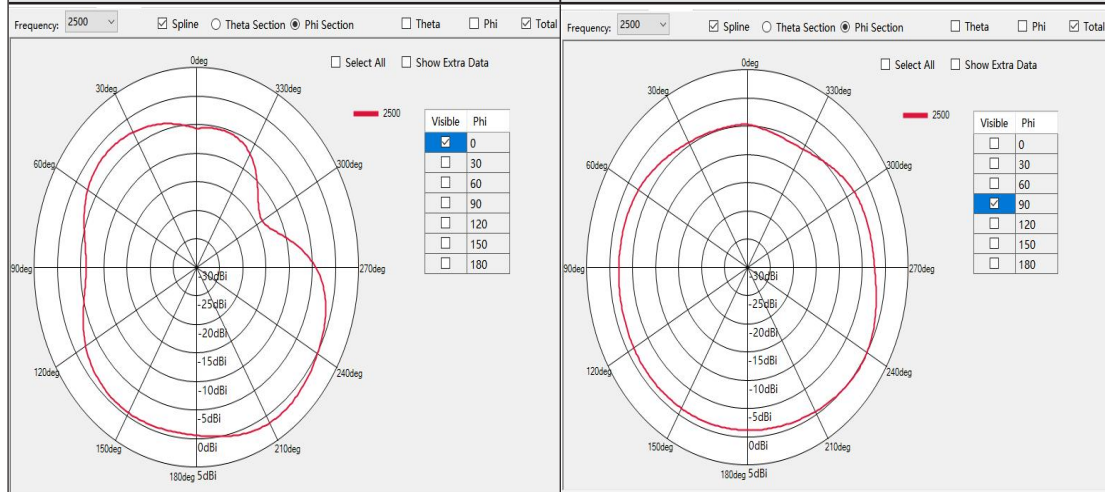
$\phi = 90^\circ$  Plane YZ at 2450 MHz, Gain 2.05 dBi





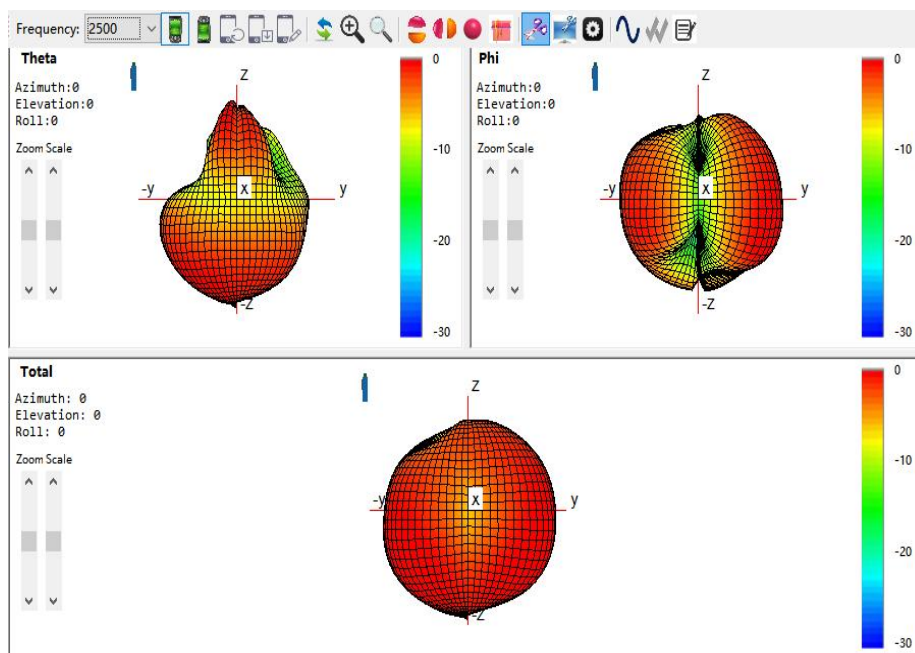
The Antenna in MyAntenna's Anechoic Chamber

$\theta = 90^\circ$  Plane XY at 2500 MHz, Gain 2.39 dBi



$\phi = 0^\circ$  Plane XZ at 2500 MHz, Gain 2.39 dBi

$\phi = 90^\circ$  Plane YZ at 2500 MHz, Gain 2.39 dBi



## HOUSING CONFIGURATIONS

