

LYNwave Technology

Antenna & Thermal solution provider

Antenna Field Test Report

Company Azurewave
Project Name: 2570
Feature: 2.4G / 5G
Application:

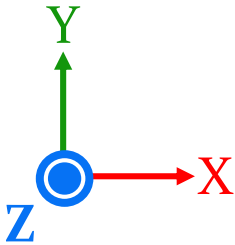
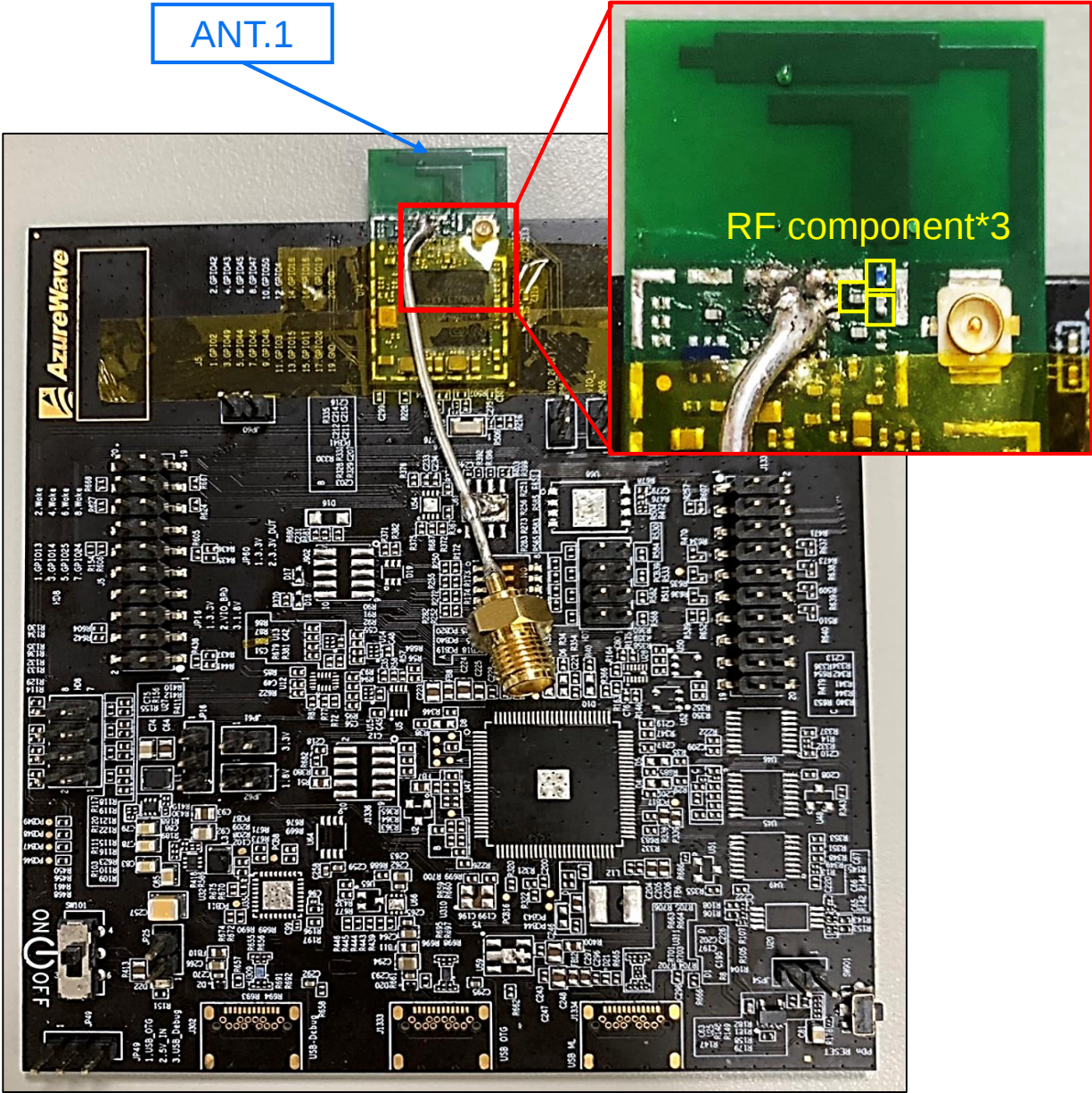
Date	Owner	Revision
2022/06/10	Alon Cai	1. Report for CST simulation
2022/10/14	Jamie	1. Antenna Passive Measurement
2023/05/08	Jamie	1. Antenna Passive Measurement
2023/05/12	Jamie	1. Antenna Passive Measurement after tuning
2023/08/30	Jamie	1. Antenna Passive Measurement
2023/10/04	Peter	1. Antenna Passive Measurement

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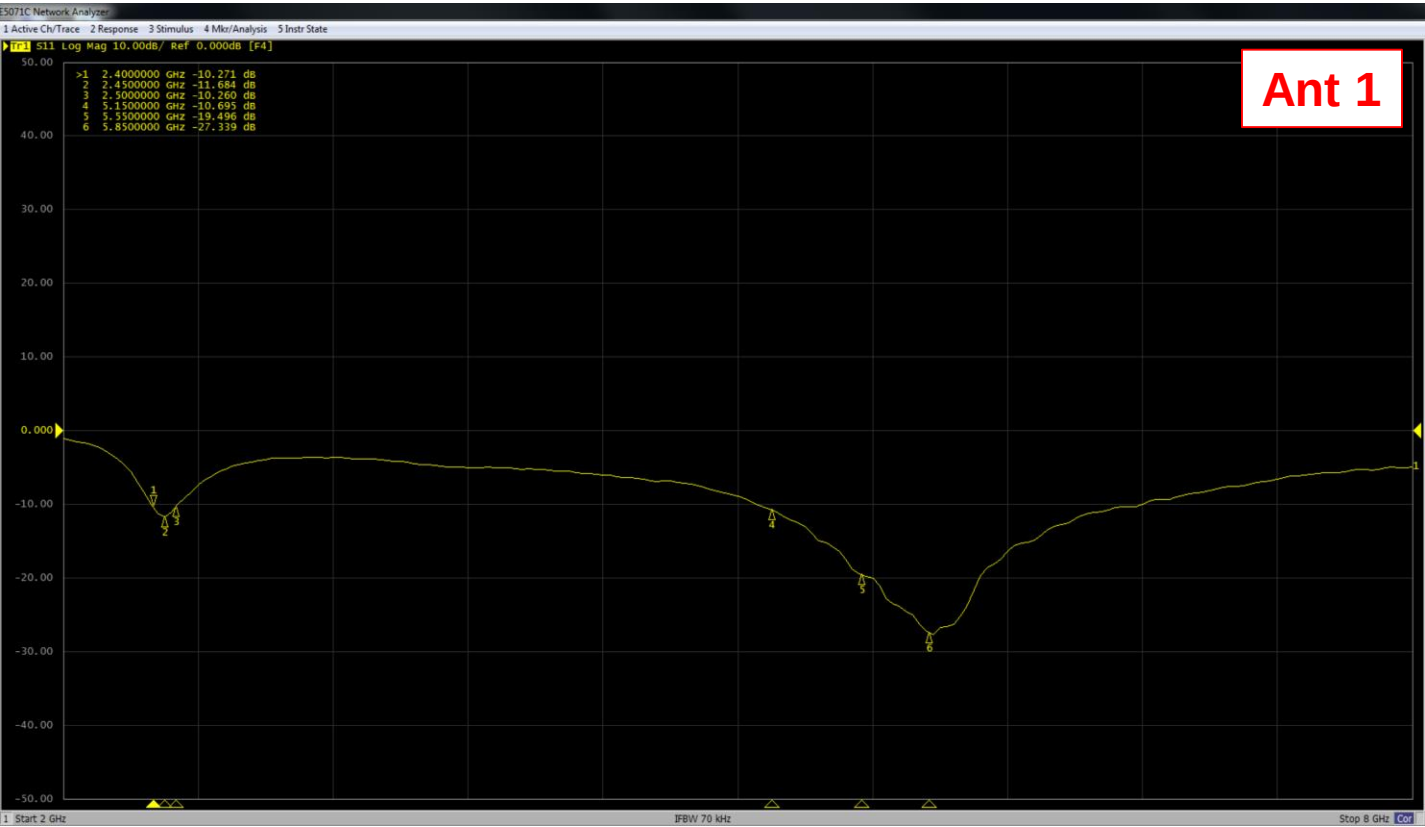
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Antenna Placement

Antenna	Description	Frequency
Ant.1	Dual Band	2400 MHz ~ 2500 MHz / 5150 MHz ~ 5850 MHz



S-Parameters



Equipment :
Satimo

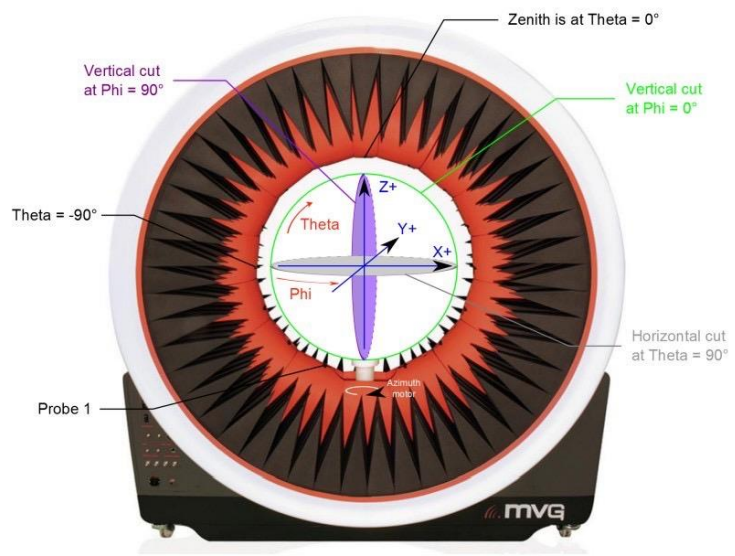
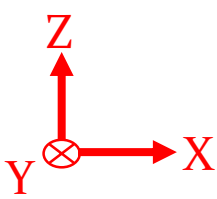
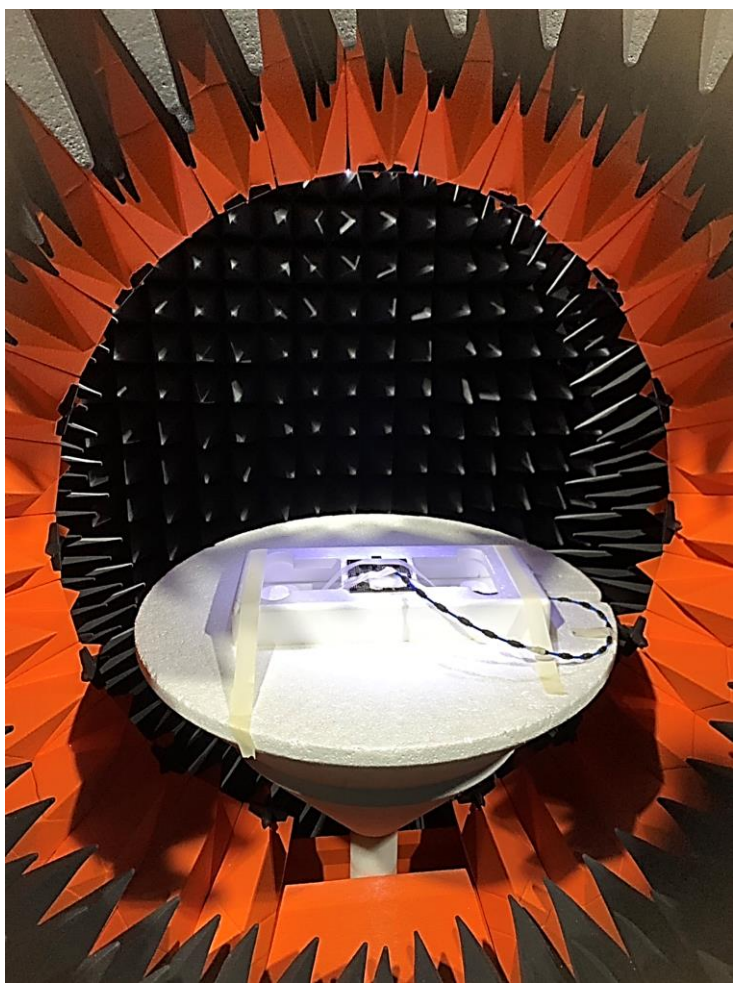


Figure 3.12: StarLab spherical coordinate system



Gain Table

Ant.1						
Frequency (MHz)	2400	2450	2500	5150	5550	5850
Peak Gain(dBi)	2.0	2.2	2.2	4.0	4.4	4.1
Efficiency(%)	65	67	66	72	74	73

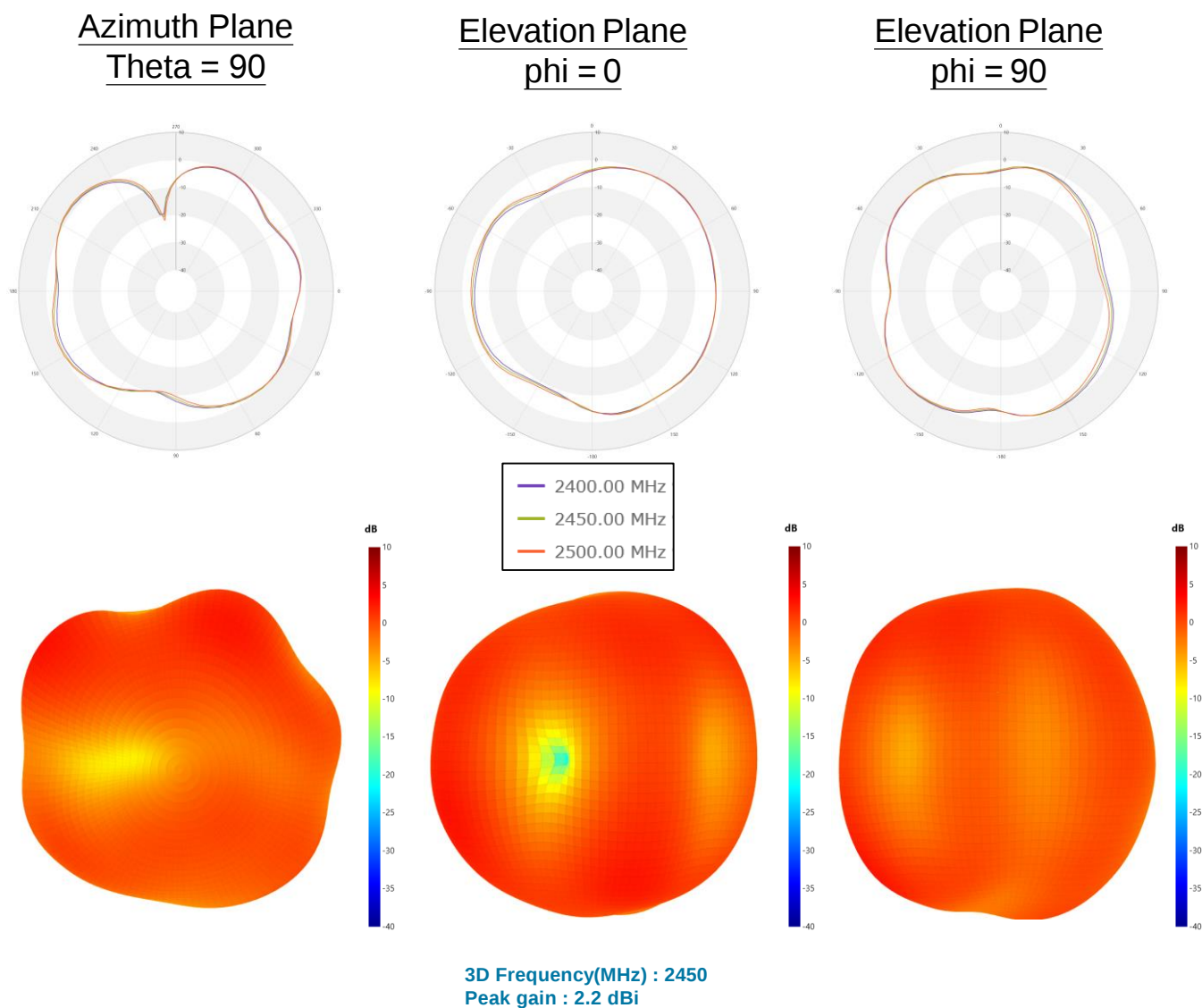
The antenna characteristics

- Return loss < -10dB in operating band
- Efficiency
 - 2.4 GHz band ≥ 60%
 - 5 GHz band ≥ 70%
- Gain
 - 2.4 GHz : 2.0 ~ 2.2dBi
 - 5 GHz : 4.0 ~ 4.4dBi

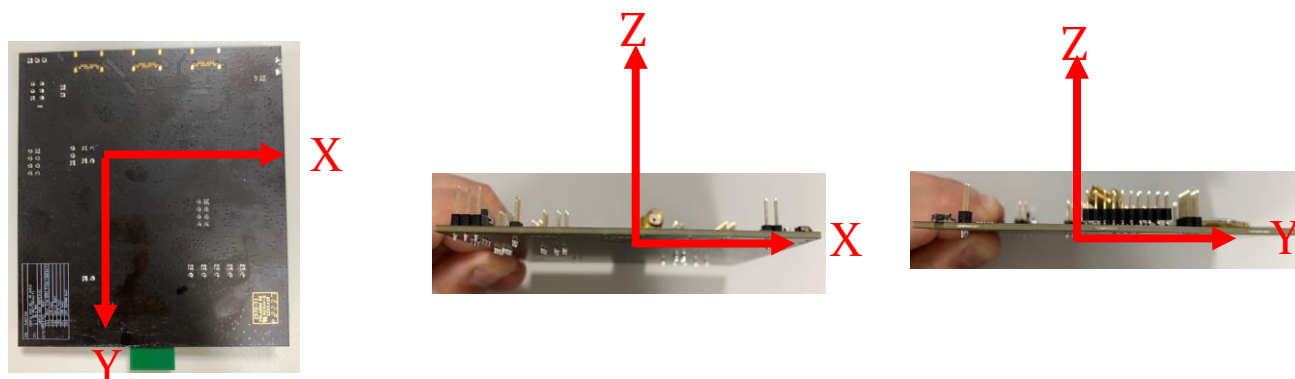
Ant.1_2.4GHz 2D.3D Radiation Pattern

Frequency(MHz) : 2400~2500

Radiation Pattern :



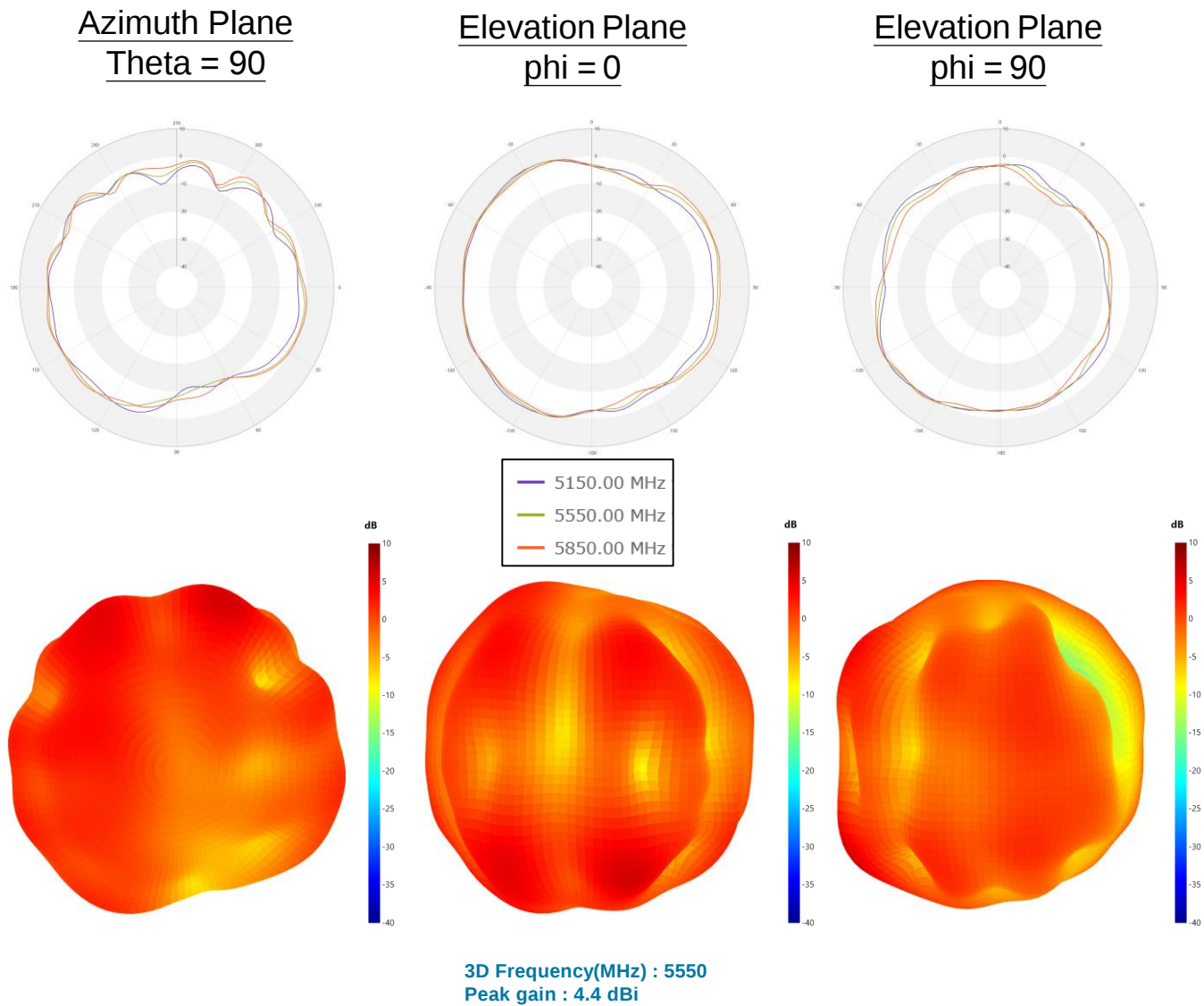
Setup :



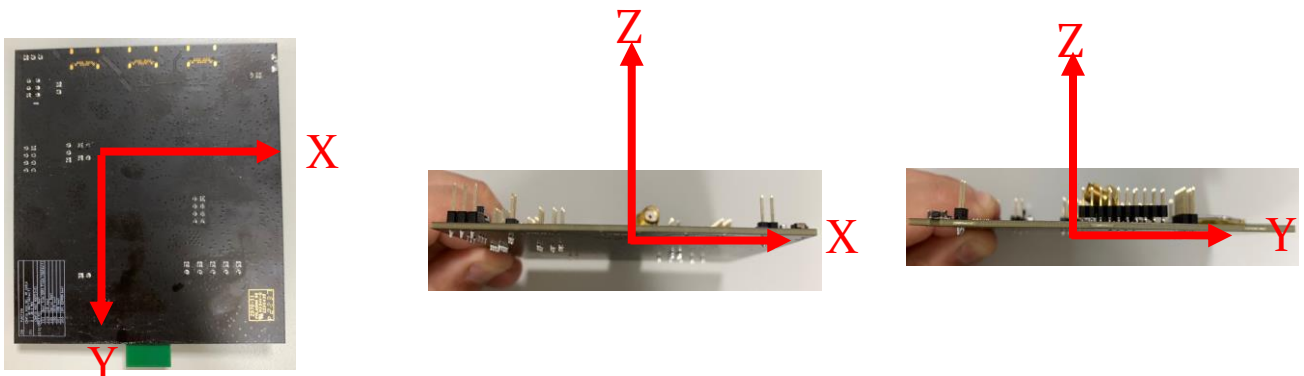
Ant.1_2.4GHz 2D.3D Radiation Pattern

Frequency(MHz) : 5150~5850

Radiation Pattern :



Setup :



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