



LYNwave Technology

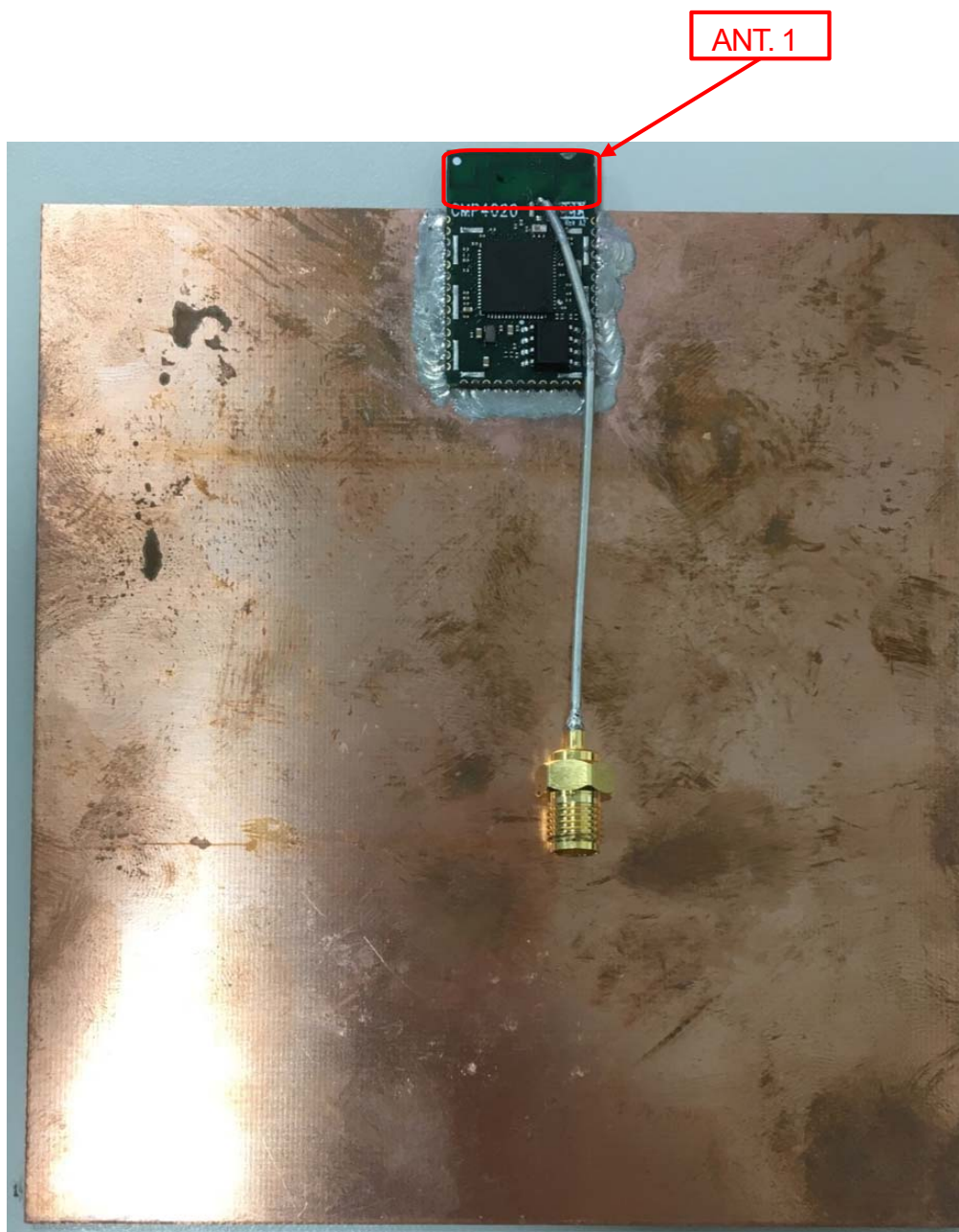
Antenna & Thermal solution provider

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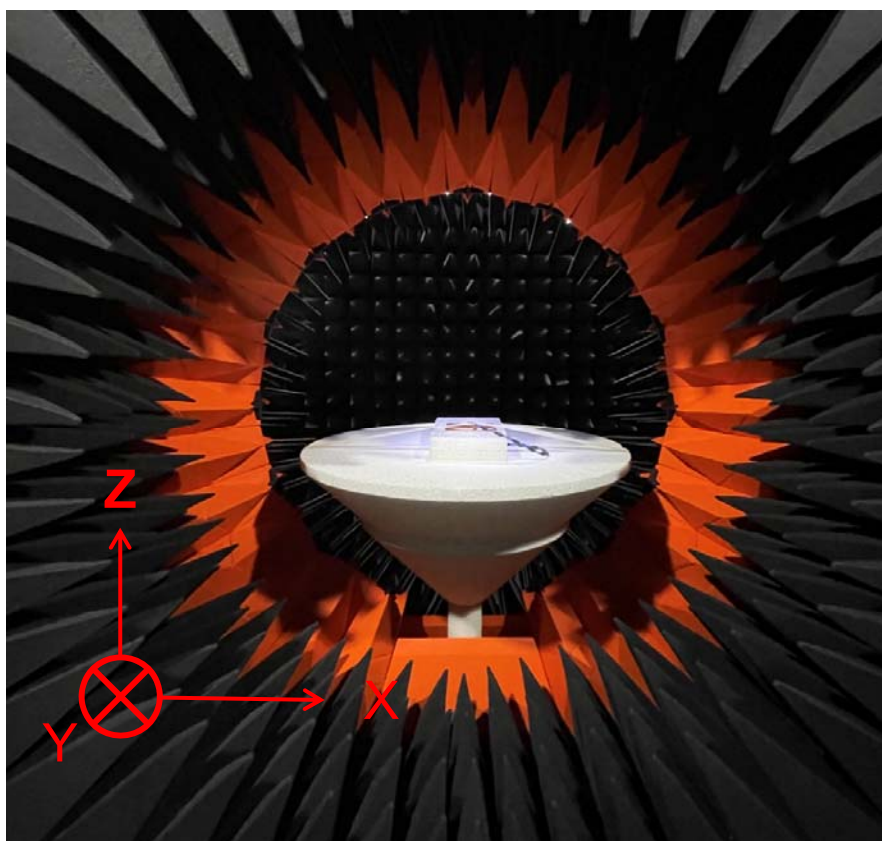
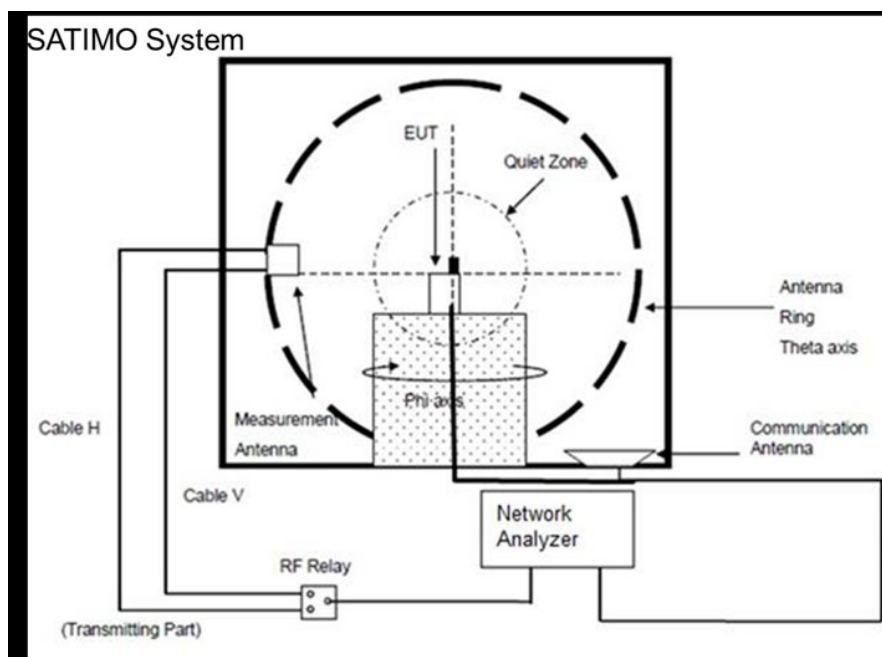
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Antenna Placement

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



Equipment : Satimo Chamber & Test Setup Photo



Names of commercial test software & description of measurements

Equipment : Network Analyzer
 Item : Return Loss



Equipment : Satimo
 Test Software: Wave Studio
 Version : 22.1
 Item : Efficiency 、 Gain

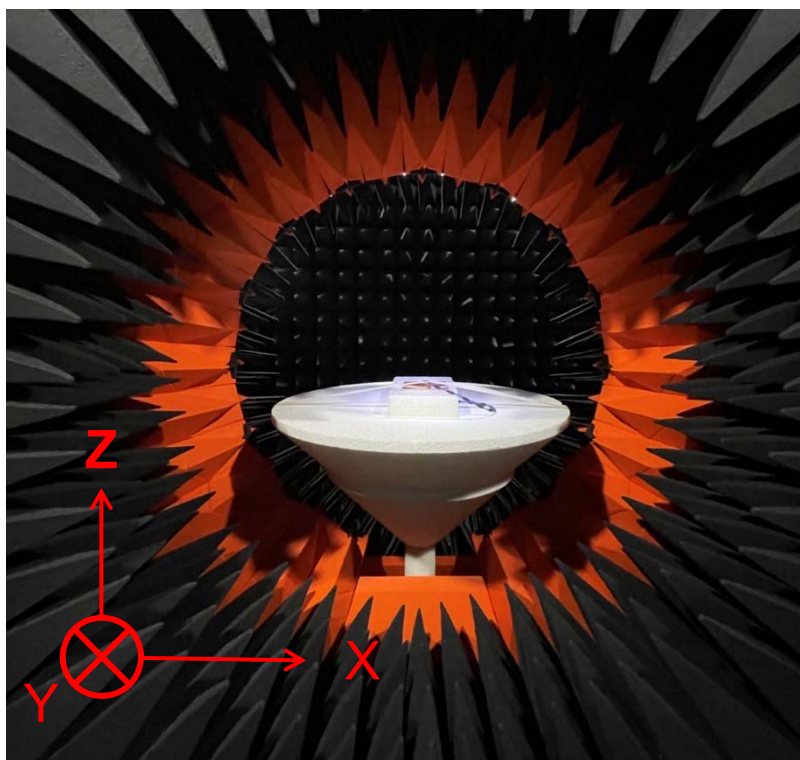
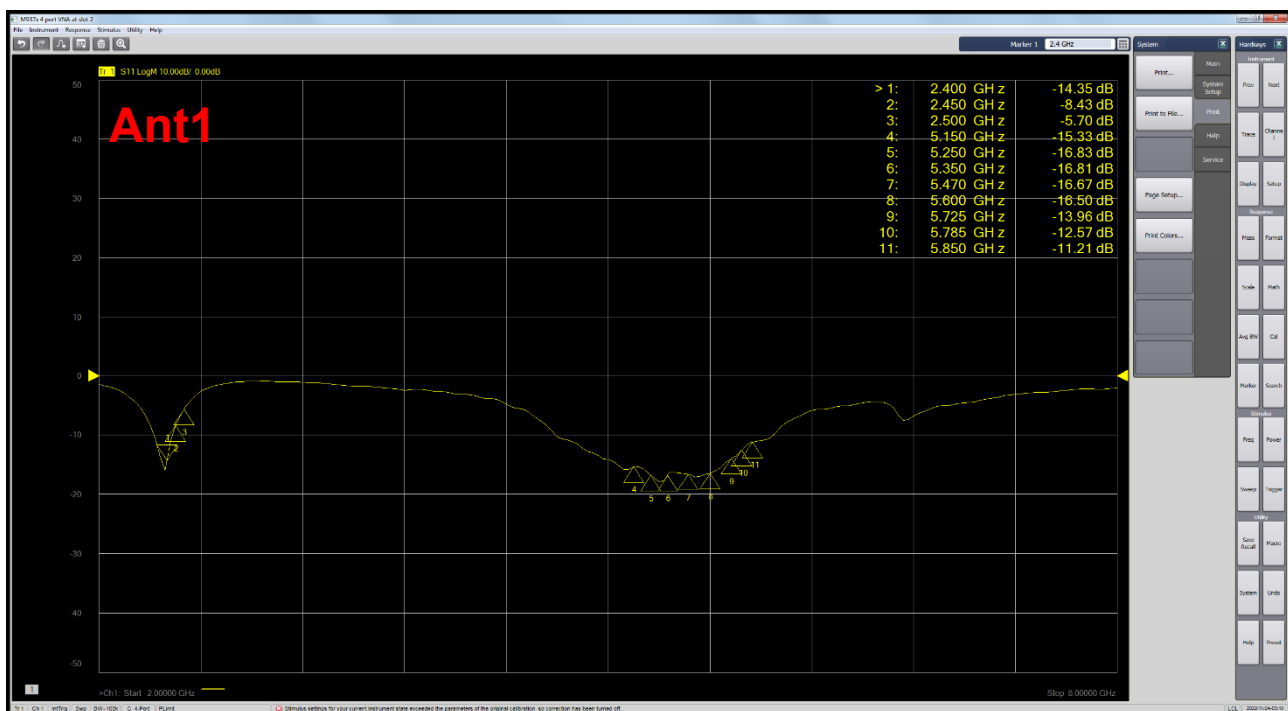


Table of calibrated equipment

Description & Manufacturer	Model No.	Cal. Date	Cal. Date
Test Receiver KEYSIGHT	M9010A	Oct. 3,2022	Oct. 2,2023
3D Chamber SATIMO	StarLab	Sep. 15,2022	Sep. 15,2023

S-Parameter



Gain Table

Ant.1											
Frequency (MHz)	2400	2450	2500	5150	5250	5350	5470	5600	5725	5785	5850
Efficiency(%)	51	49	42	70	69	66	72	71	65	66	63
Peak Gain(dBi)	2.1	2.1	1.4	3.5	3.2	2.9	3.1	3.1	2.8	2.9	2.6

The antenna characteristics

- Return loss
 - 2.4GHz is not in operating band
 - 5GHz < -10dB in operating band
- Gain
 - WiFi 2.4GHz Band 1.4 ~ 2.1dBi
 - WiFi 5GHz Band 2.6 ~ 3.5dBi
- Efficiency
 - WiFi 2.4GHz Band > 40 %
 - WiFi 5GHz Band > 60 %
- The antenna gain values are used in EMC measurement, the EIRP and/or Conducted power are compliance all FCC requirements and not exceed the limit.

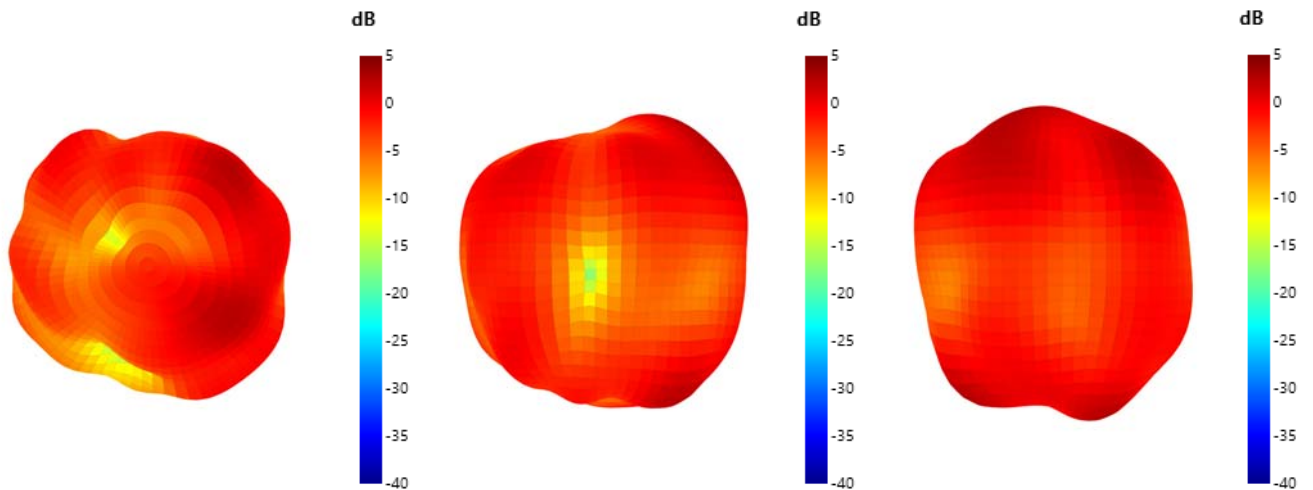
Ant.1_2.4GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 2400

Radiation Pattern :

Azimuth Plane

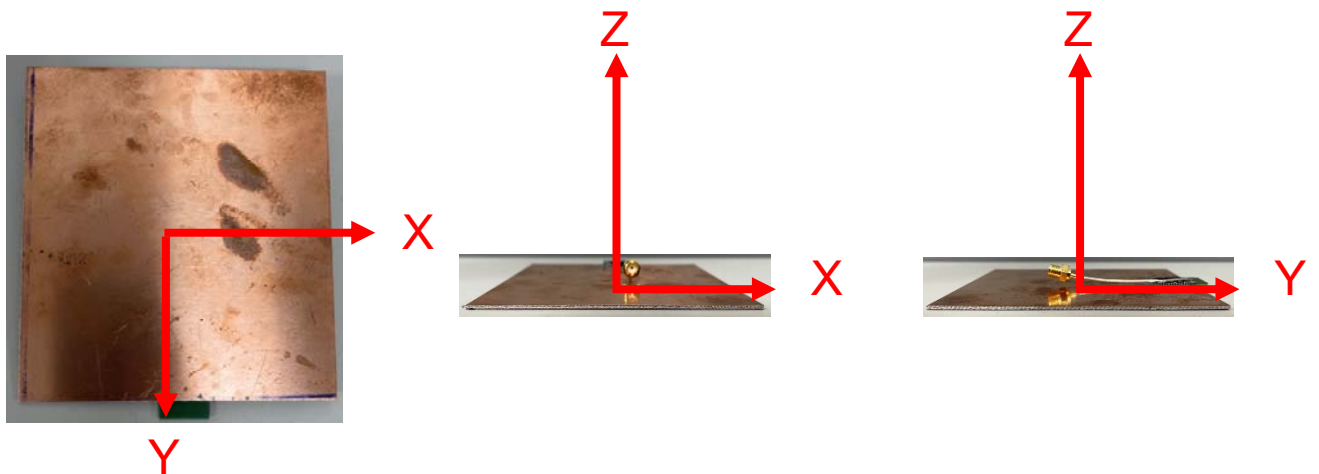
Elevation Plane
 $\phi = 0$

Elevation Plane
 $\phi = 90$



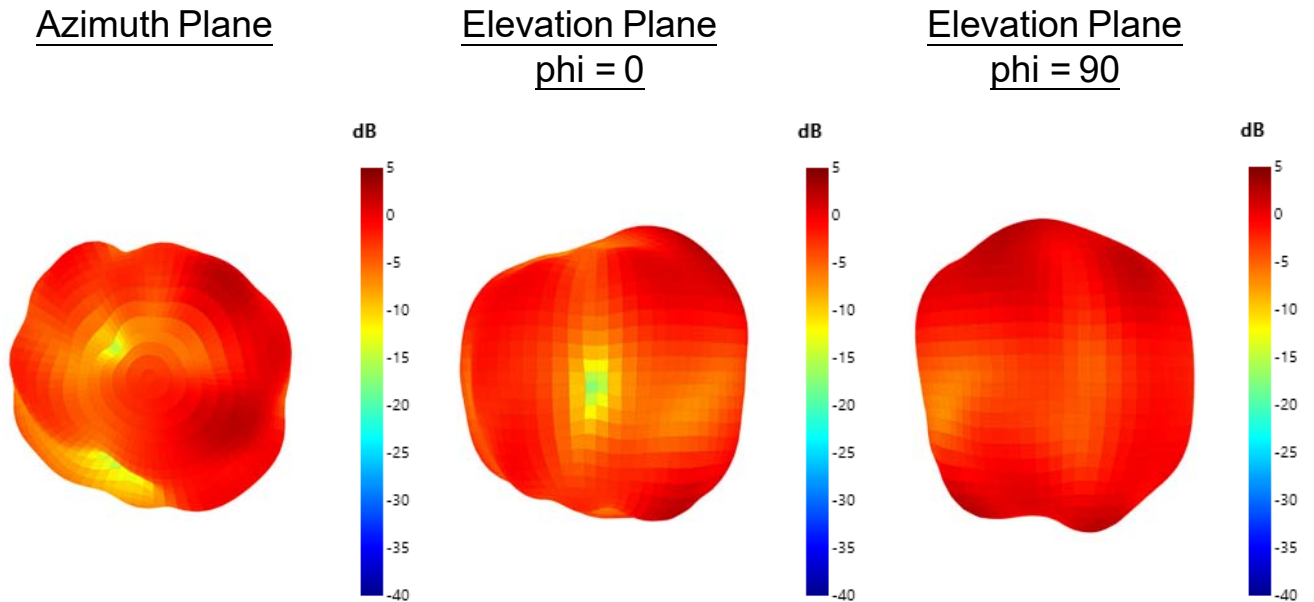
Peak Gain: 2.1dBi

Setup :



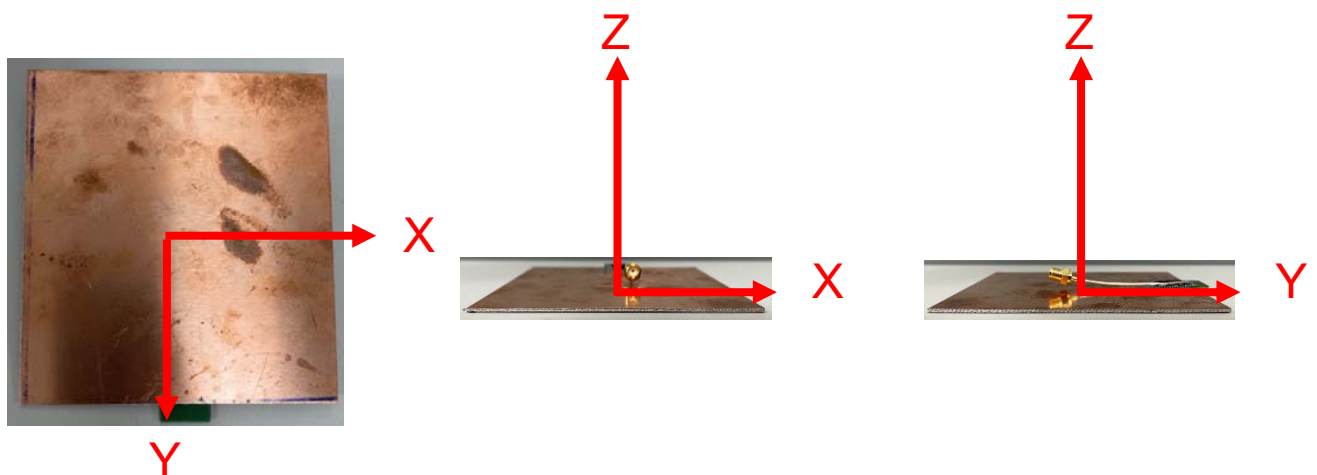
Ant.1_2.4GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 2450

Radiation Pattern :



Peak Gain: 2.1dBi

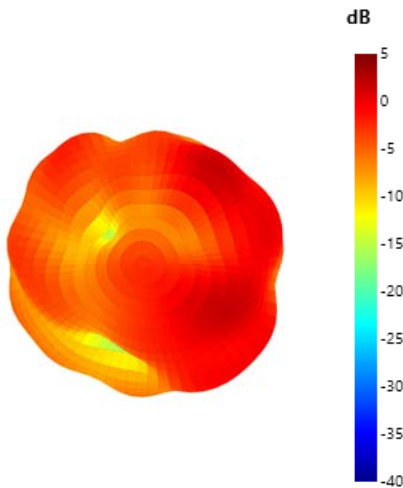
Setup :



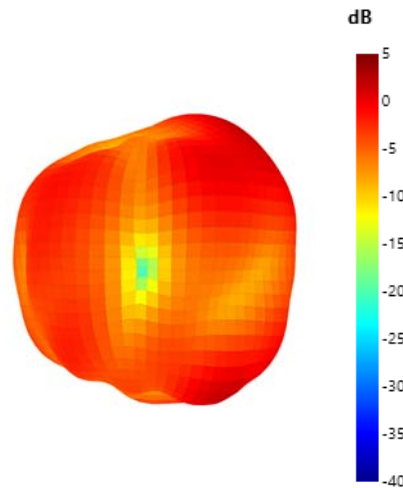
Ant.1_2.4GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 2500

Radiation Pattern :

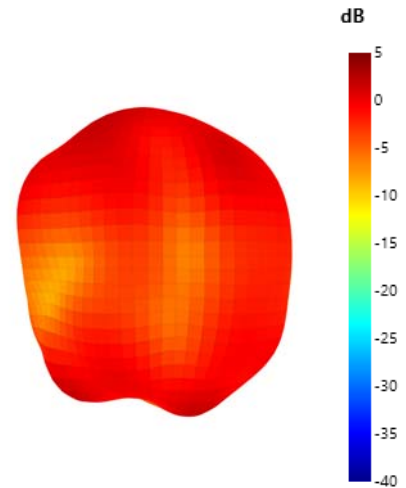
Azimuth Plane



Elevation Plane
phi = 0

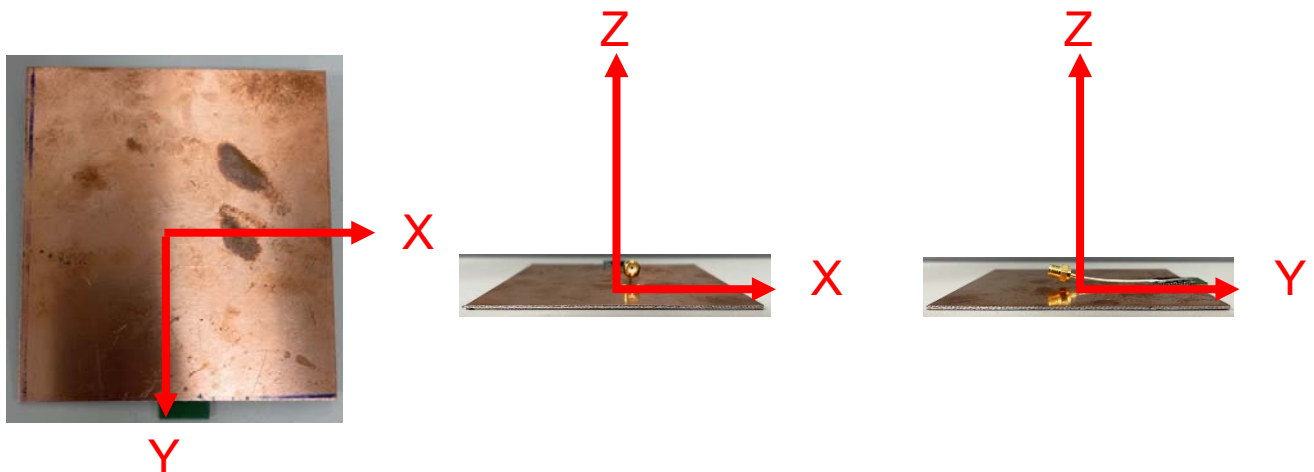


Elevation Plane
phi = 90



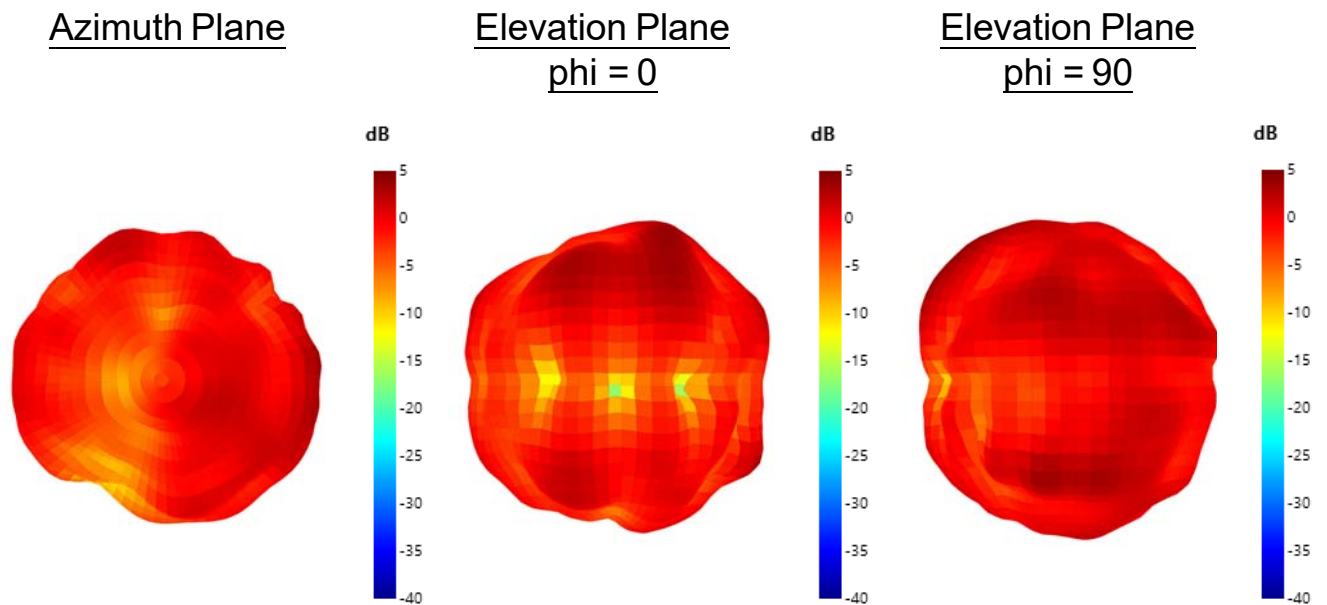
Peak Gain: 1.4dBi

Setup :



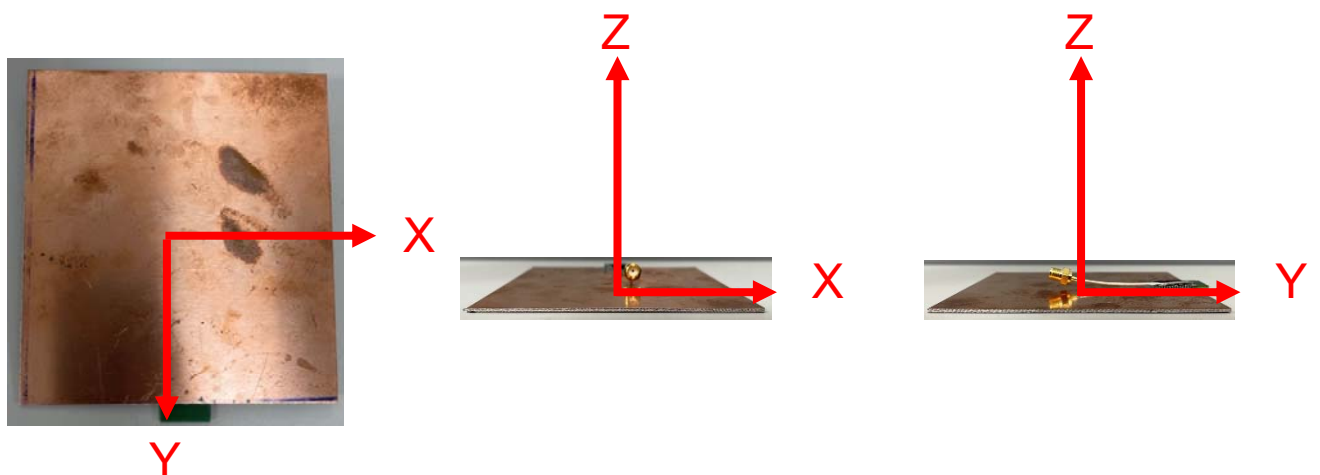
Ant.1_5GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 5150

Radiation Pattern :



Peak Gain: 3.5dBi

Setup :



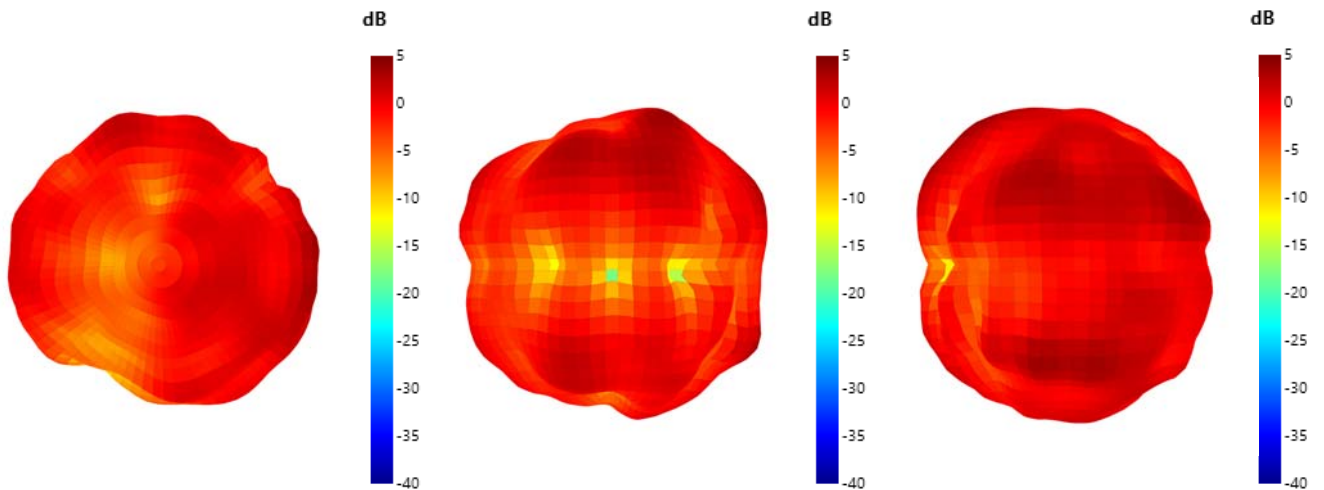
Ant.1_5GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 5250

Radiation Pattern :

Azimuth Plane

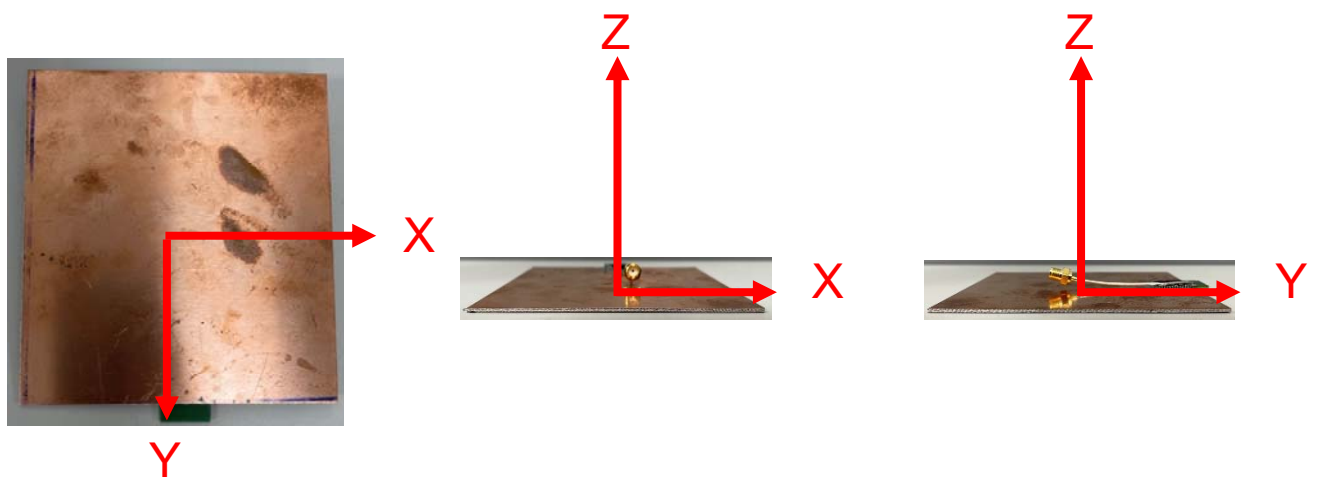
Elevation Plane
 $\phi = 0$

Elevation Plane
 $\phi = 90$



Peak Gain: 3.2dBi

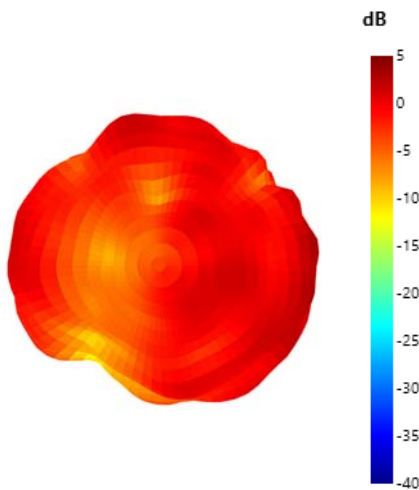
Setup :



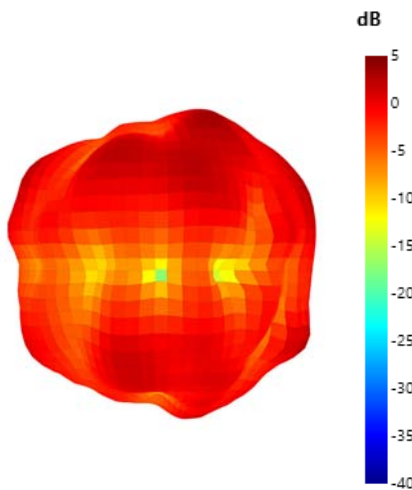
Ant.1_5GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 5350

Radiation Pattern :

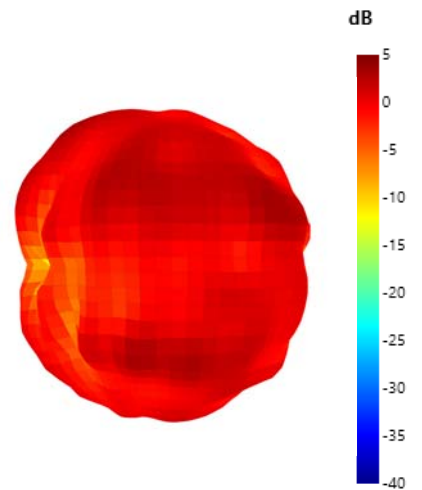
Azimuth Plane



Elevation Plane
phi = 0

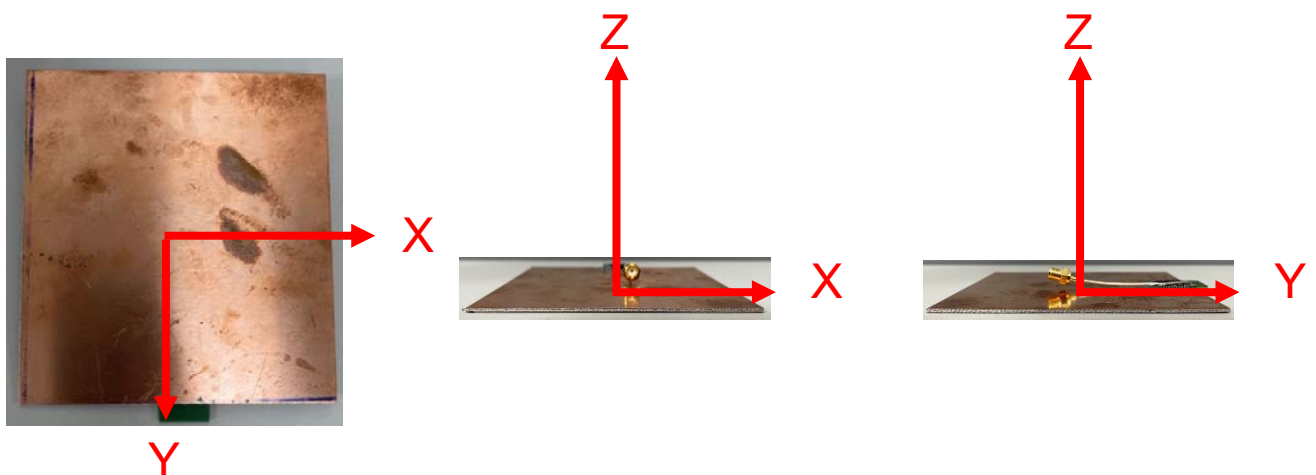


Elevation Plane
phi = 90



Peak Gain: 2.9dBi

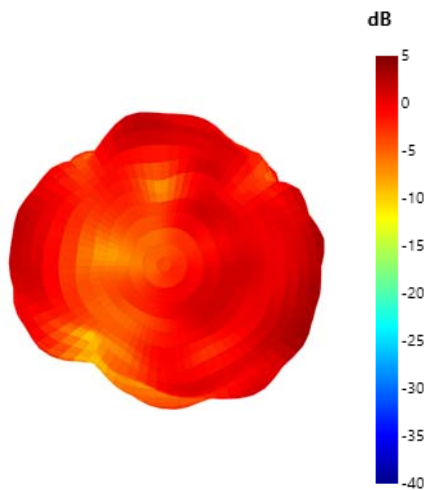
Setup :



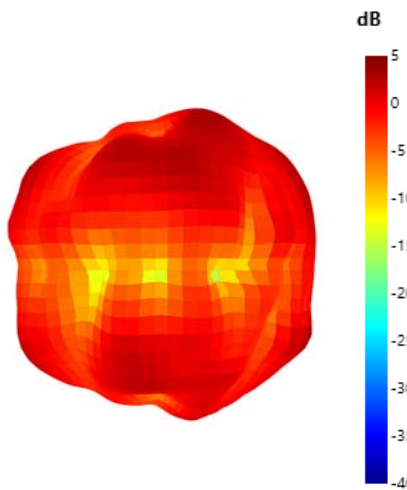
Ant.1_5GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 5470

Radiation Pattern :

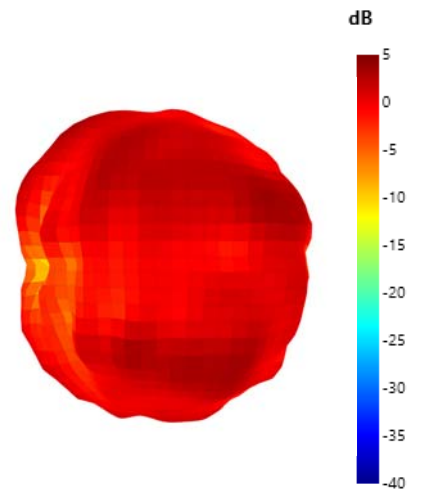
Azimuth Plane



Elevation Plane
 $\phi = 0$

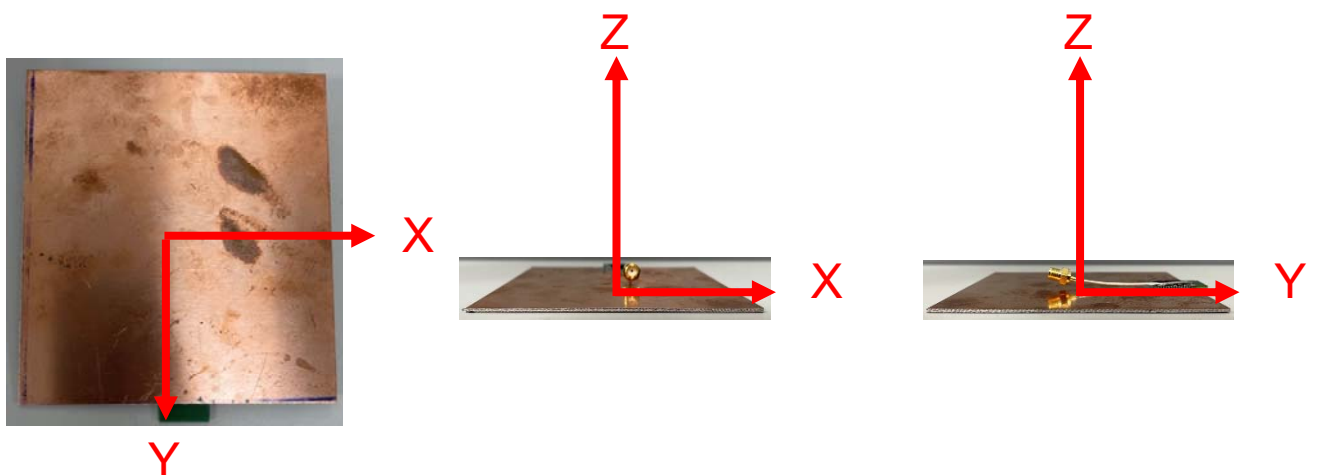


Elevation Plane
 $\phi = 90$



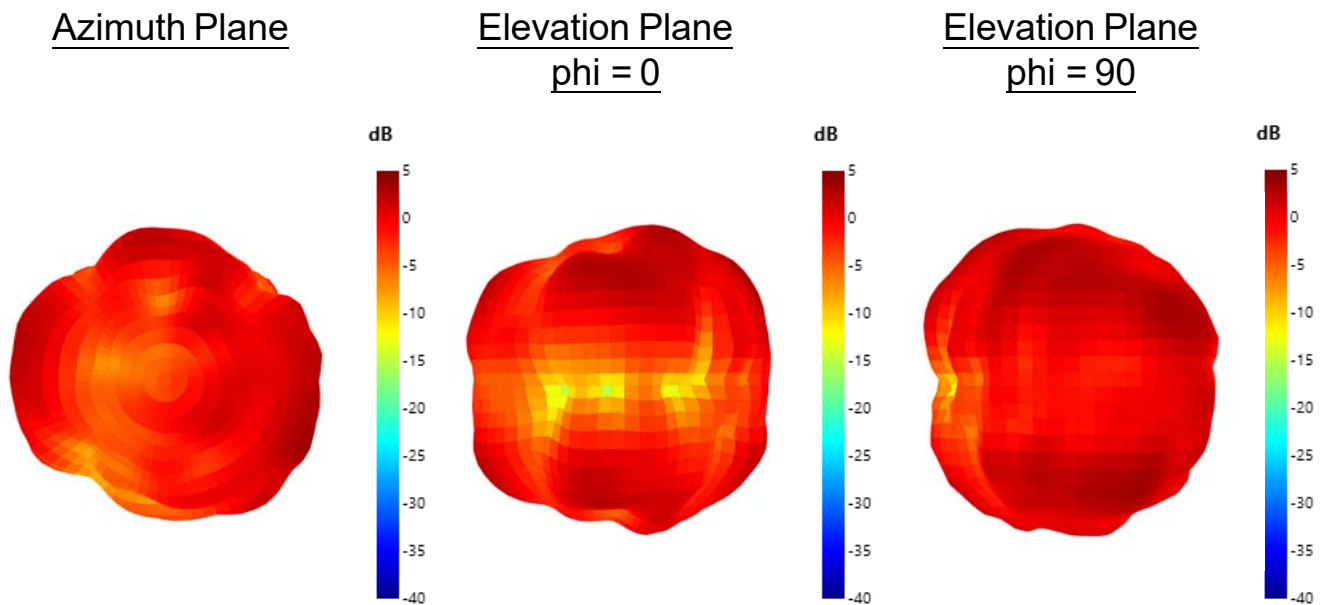
Peak Gain: 3.1dBi

Setup :



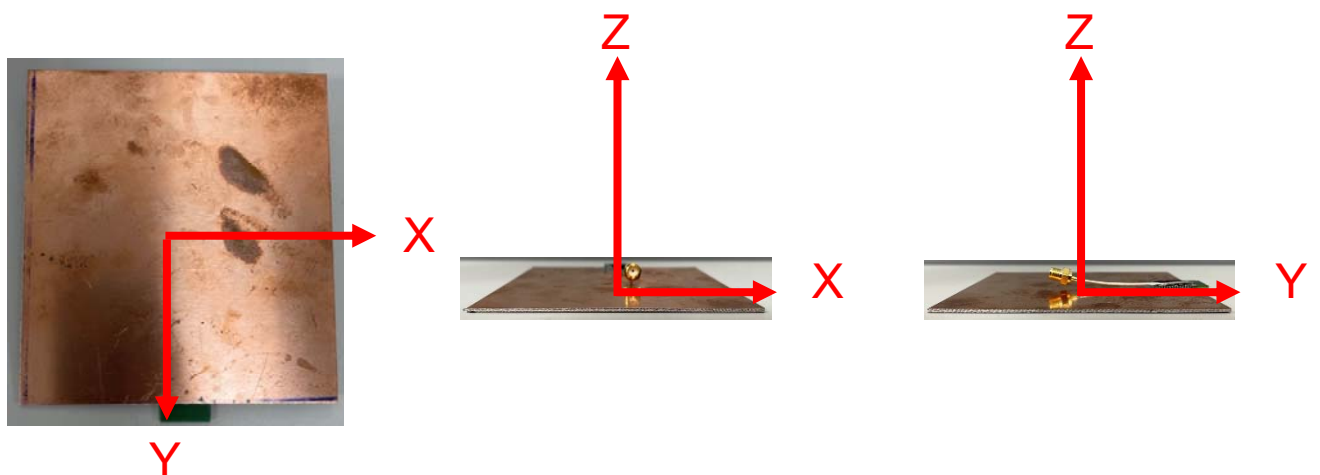
Ant.1_5GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 5600

Radiation Pattern :



Peak Gain: 3.1dBi

Setup :



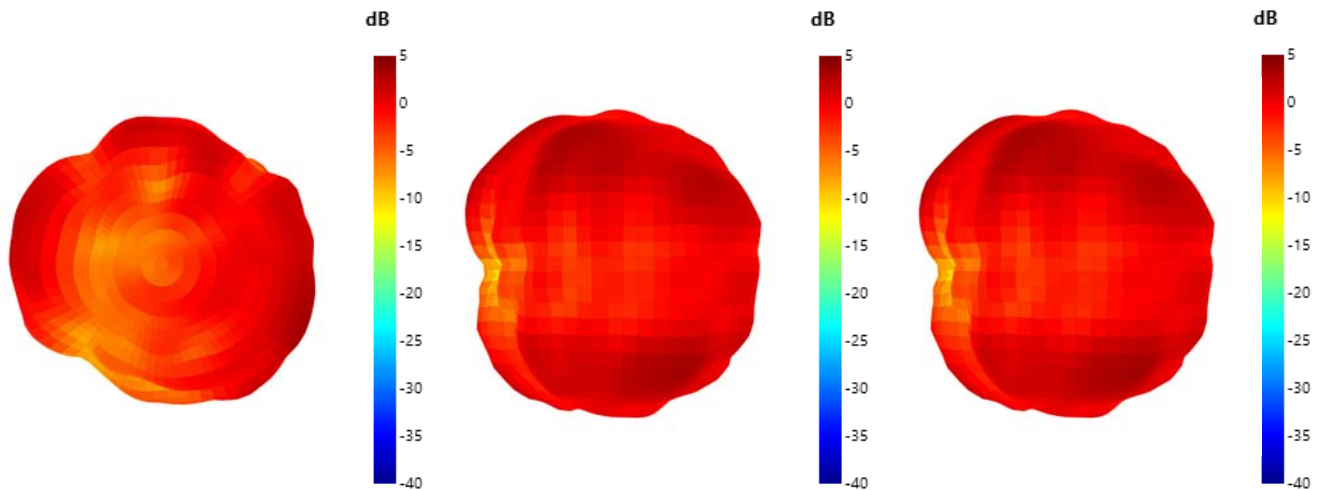
Ant.1_5GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 5725

Radiation Pattern :

Azimuth Plane

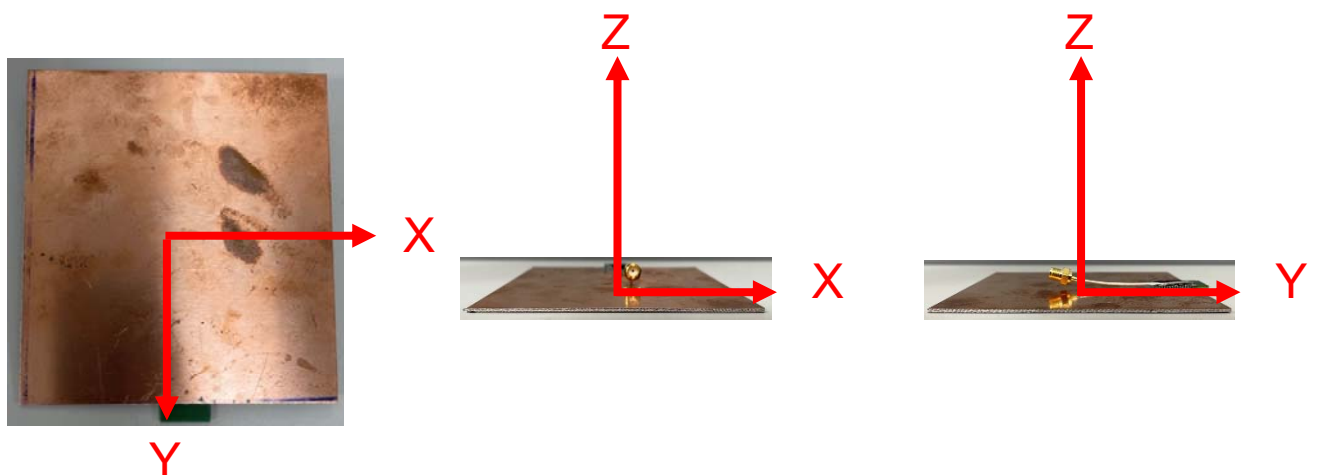
Elevation Plane
 $\phi = 0$

Elevation Plane
 $\phi = 90$



Peak Gain: 2.8dBi

Setup :



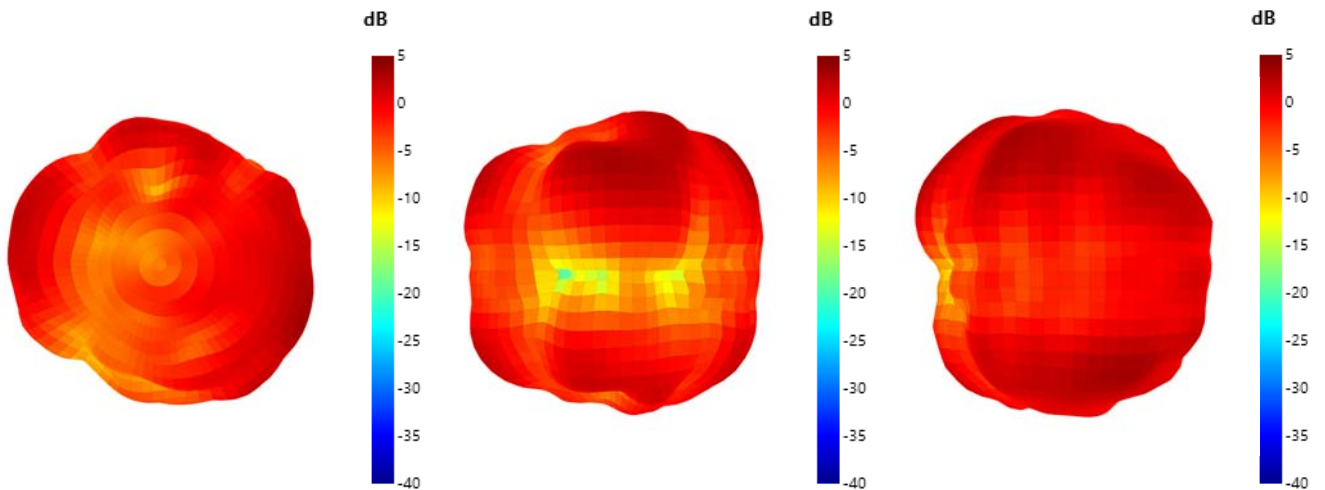
Ant.1_5GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 5785

Radiation Pattern :

Azimuth Plane

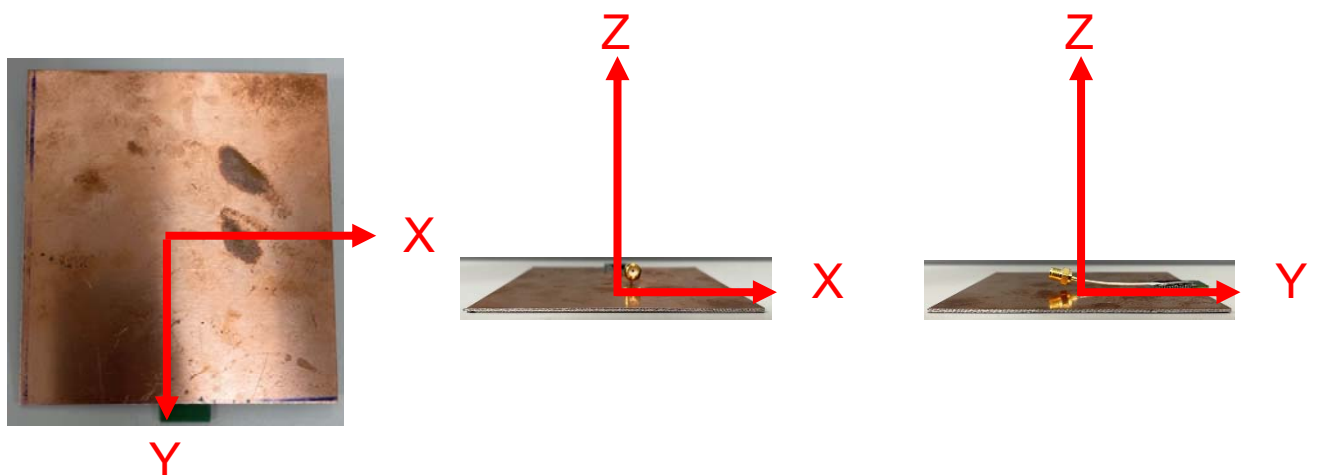
Elevation Plane
 $\phi = 0$

Elevation Plane
 $\phi = 90$



Peak Gain: 2.9dBi

Setup :



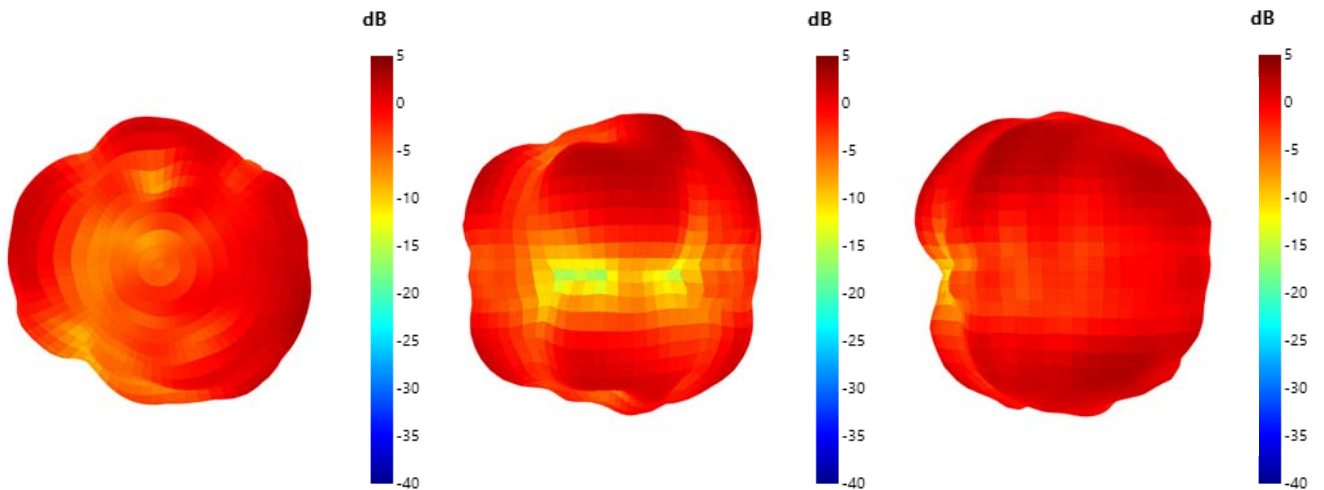
Ant.1_5GHz 3D. Radiation Pattern
 Frequency(MHz) : 3D. 5850

Radiation Pattern :

Azimuth Plane

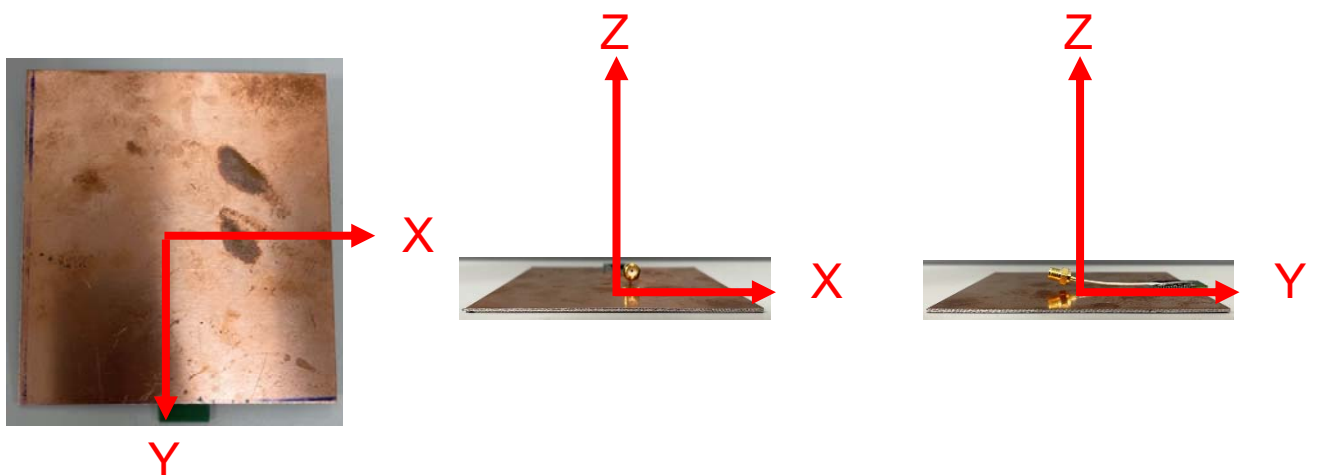
Elevation Plane
 $\phi = 0$

Elevation Plane
 $\phi = 90$



Peak Gain: 2.6dBi

Setup :



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