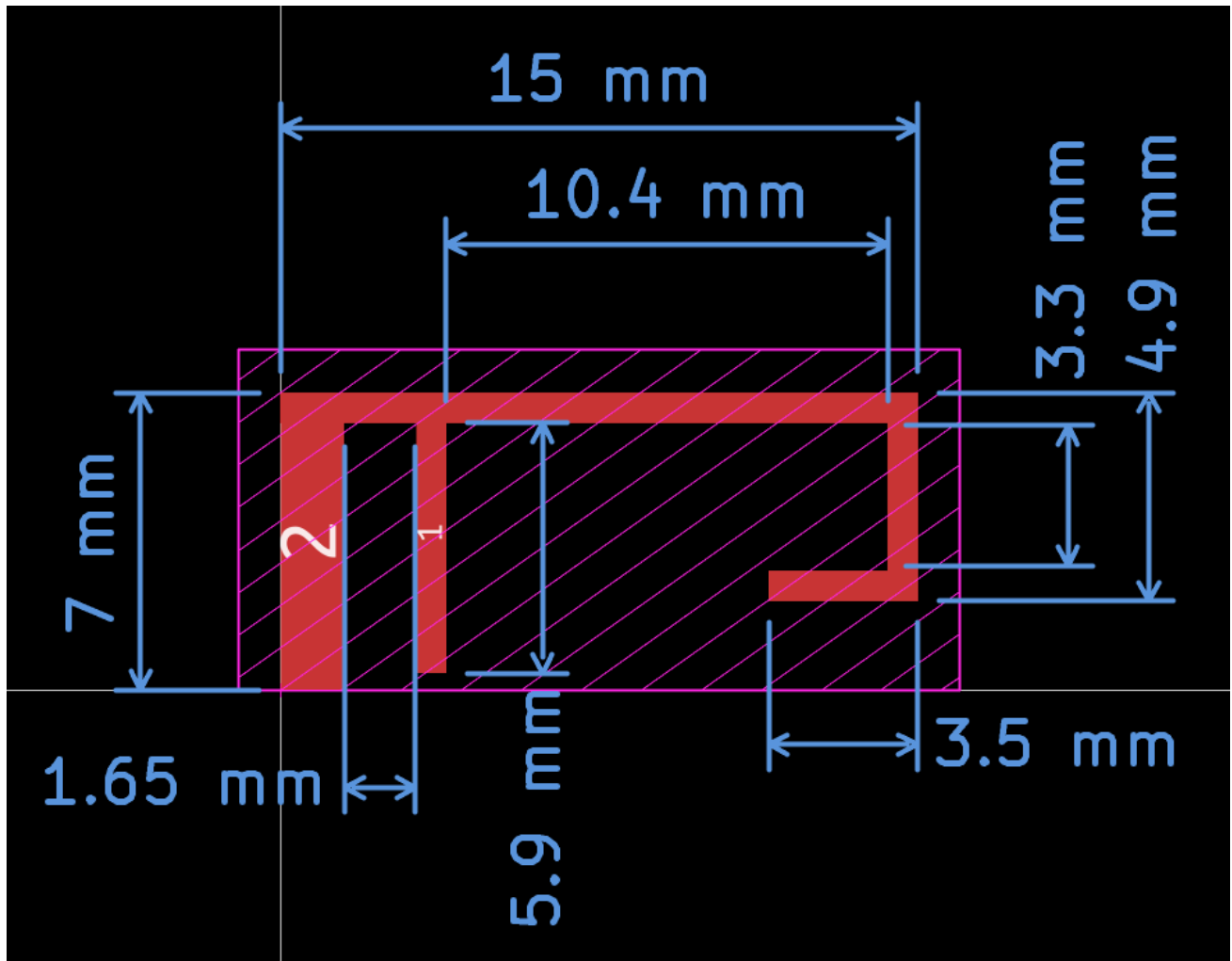


Antenna Test Report

Antenna Type	Onboard PCB Antenna
Manufacturer	NEXTORCH
Address	No. 61, Yudong 1st Road, Dongcheng Town, Yangdong District, Yangjiang City, Guangdong Province, China.
Test Items	Antenna Gain and Efficiency, 2D Pattern, 3D Radiation Pattern
Test Frequency Band (MHz)	Range: 2400-2500 Center: 2450
Test Equipment	ATS-200, E5071C, E5062A
Reception Date	February 18, 2025
Test Date	February 19, 2025
Test Company	Guangzhou Xiaojumao Technology Co., Ltd
Address	Room 410, No. 193 (Building D2), Shuixi Road, Huangpu District, Guangzhou City, Guangdong Province, China.

Antenna Specifications

Material: FR-4 Board thickness 1.0mm, Copper thickness 0.035 mm.

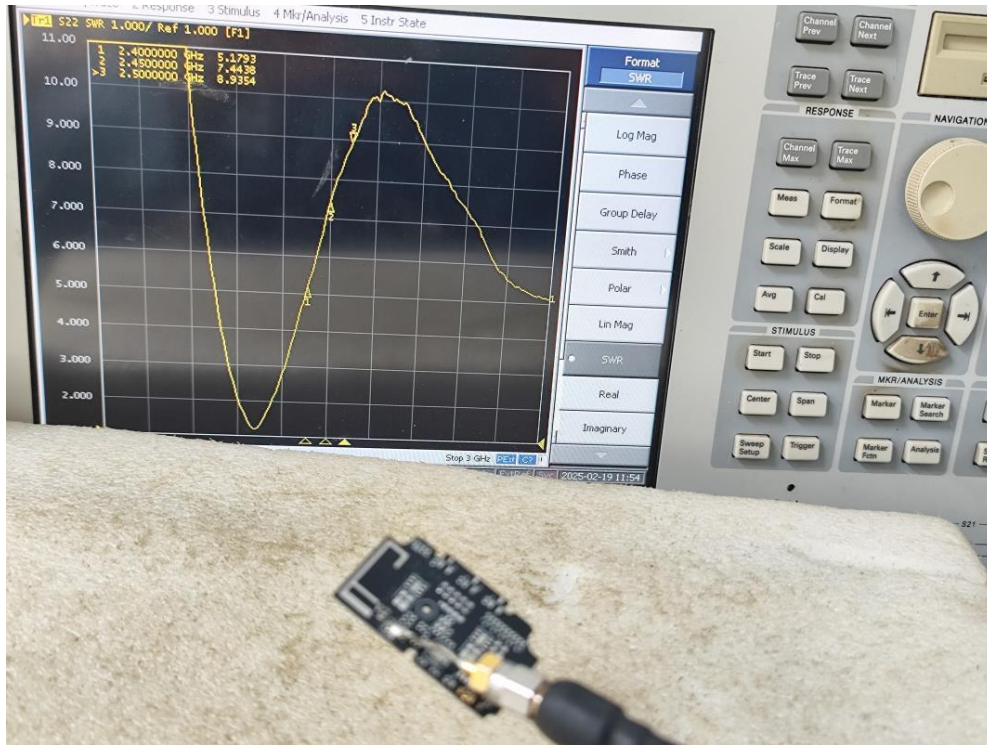


S-Parameter Test

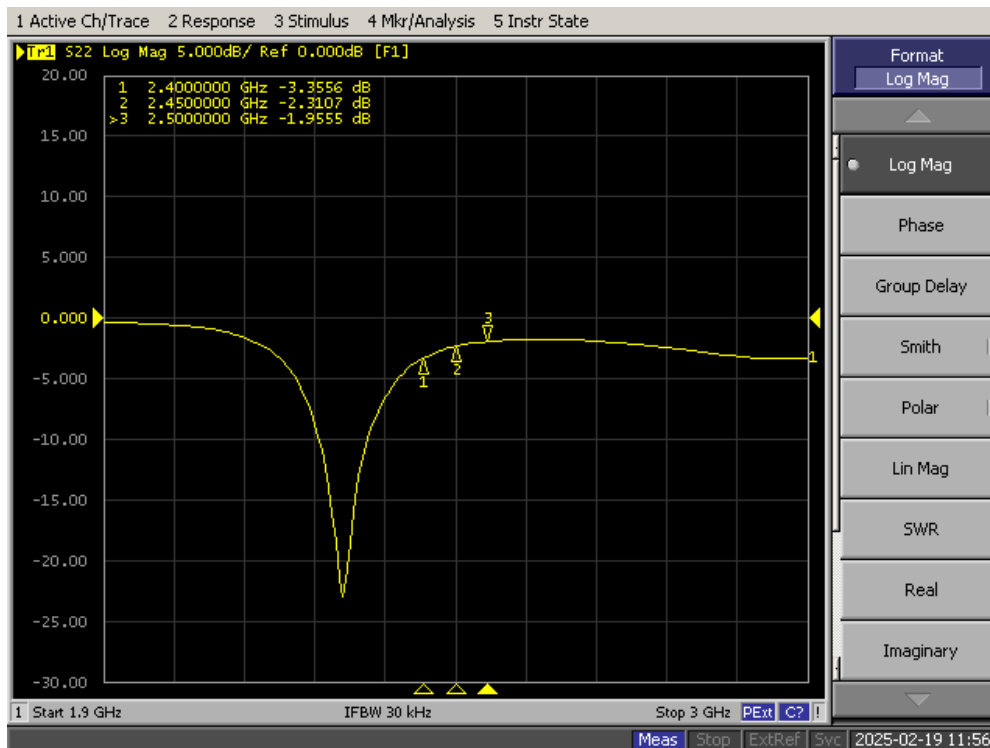
Equipment Model: E5062A

Test Items: Return Loss, VSWR

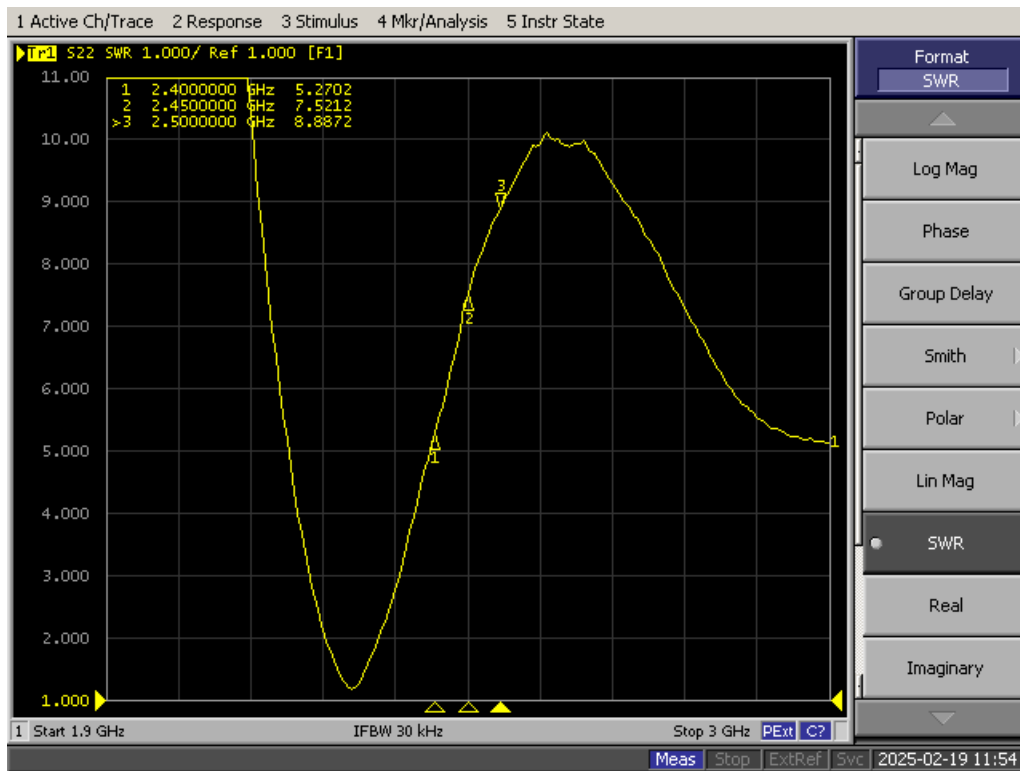
Test Environment Diagram



Return Loss



VSWR



3D Microwave Anechoic Chamber Test

Equipment Model: ATS-200, E5071C

Test Items: Gain and Efficiency, 2D Pattern, 3D Radiation Pattern

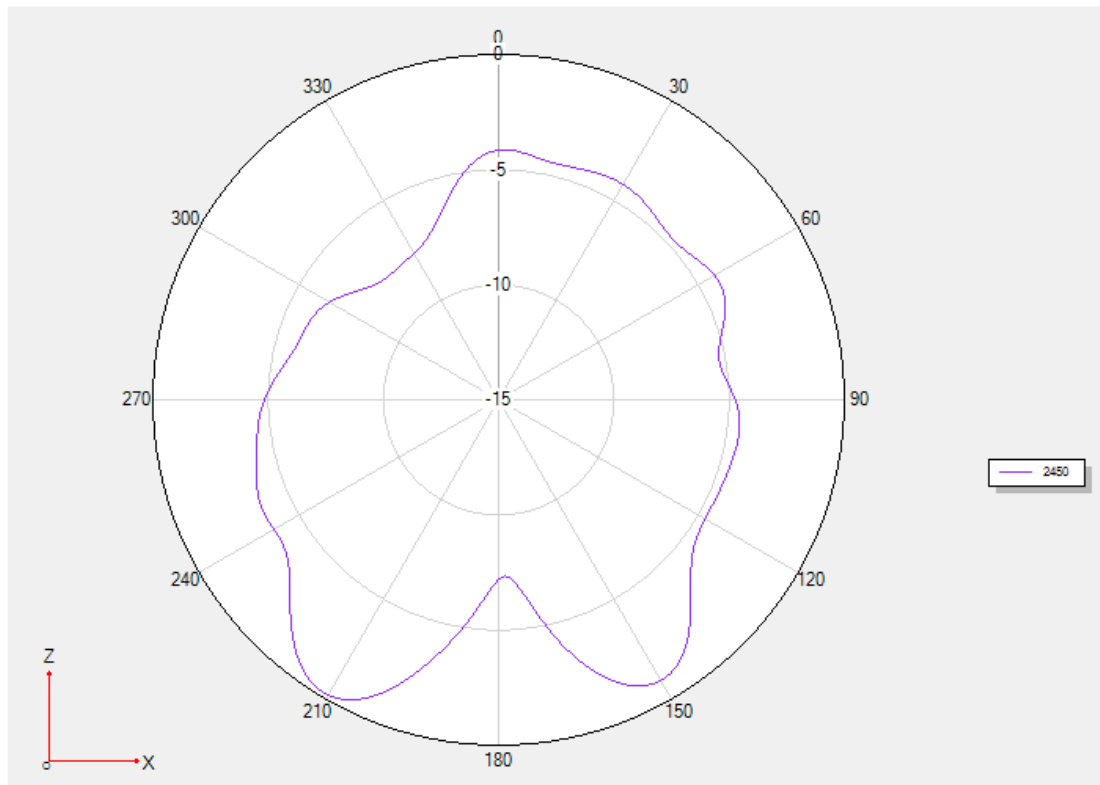
Gain and Efficiency

Frequency (MHz)	Max Gain (dBi)	Efficiency (%)
2400	2.03	48.98
2410	1.76	46.13
2420	0.92	40.46
2430	0.39	35.89
2440	0.1	33.11
2450	-0.18	32.14
2460	-0.97	29.79
2470	-0.87	29.58
2480	-0.86	29.31
2490	-0.91	31.84
2500	-1.93	29.31

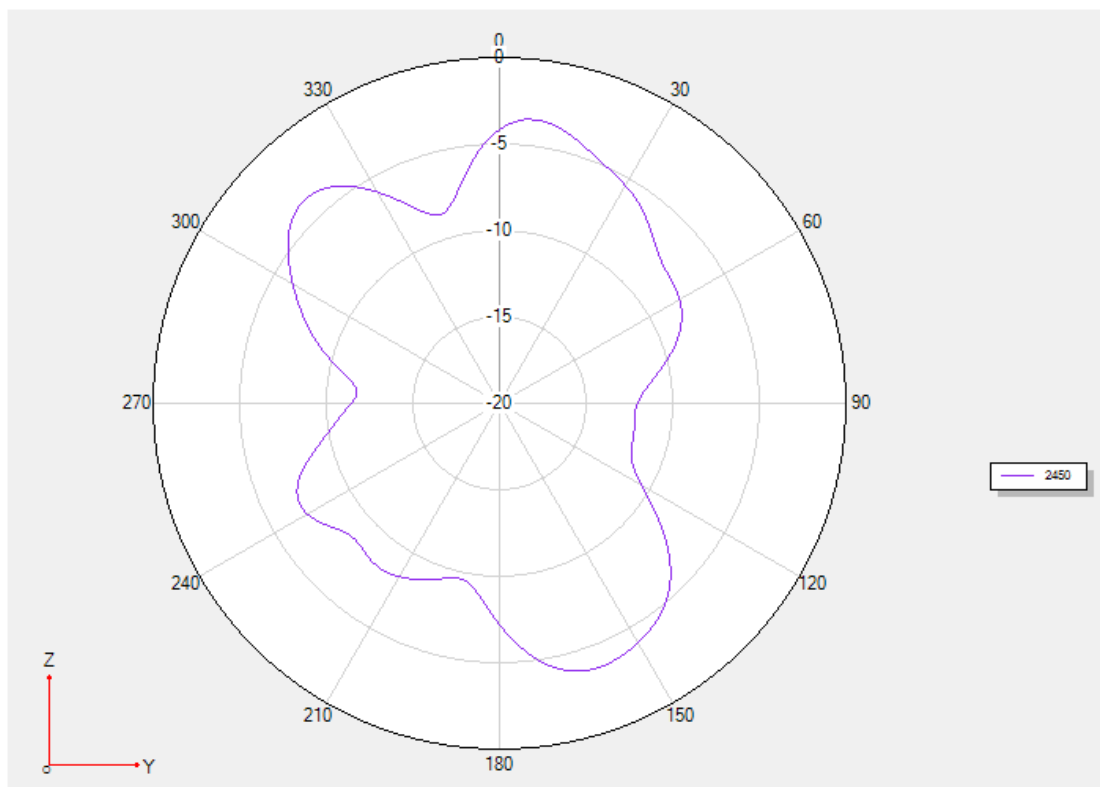
Anechoic Chamber Direction Diagram

2D Pattern

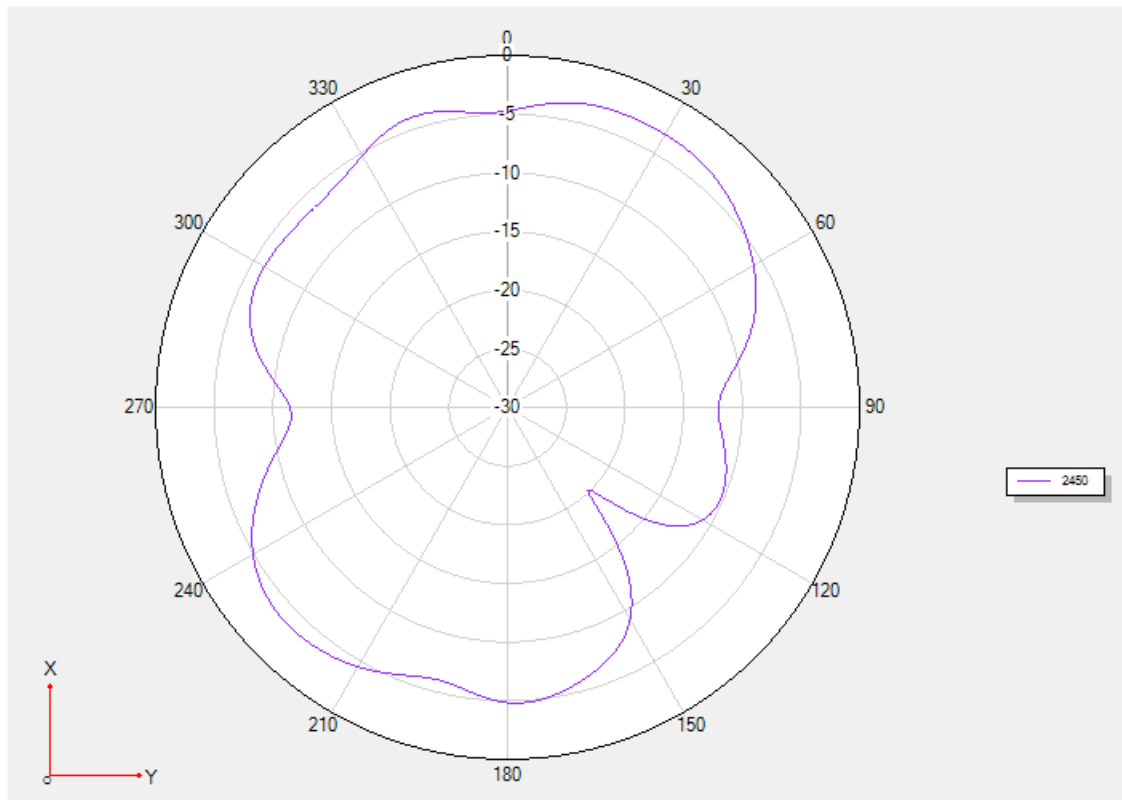
Phi 0



Phi 90

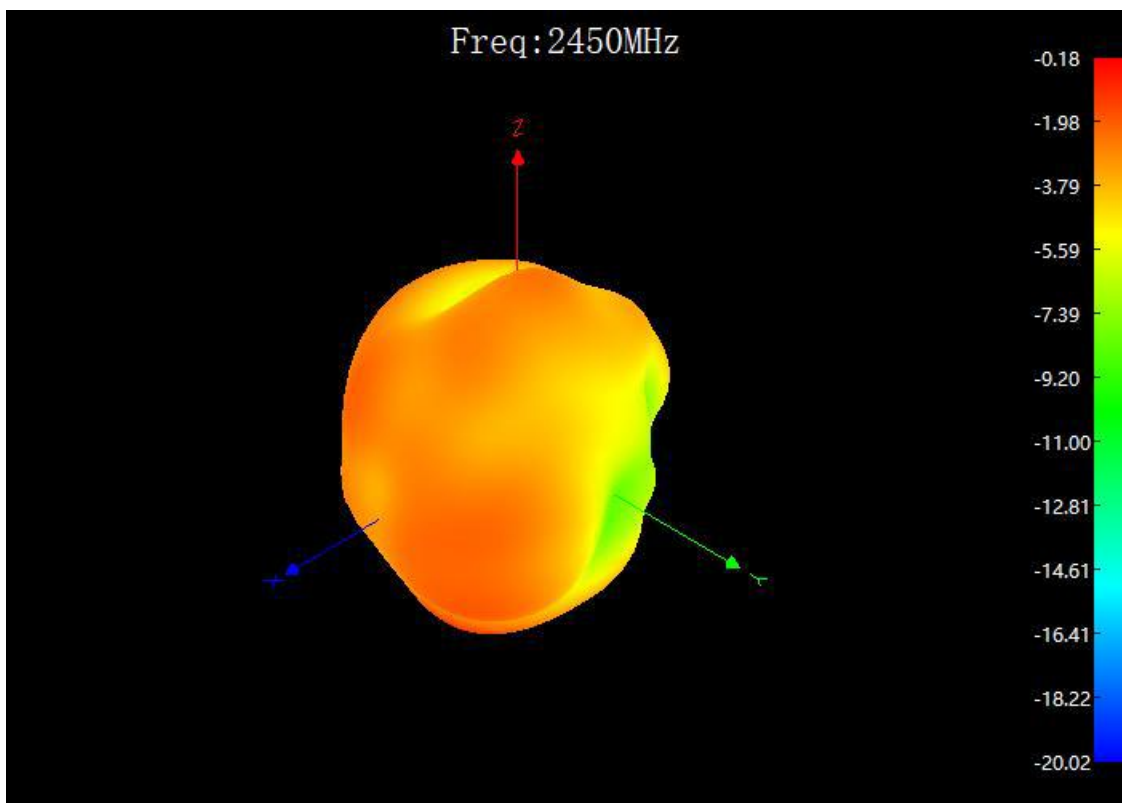


Theta 90

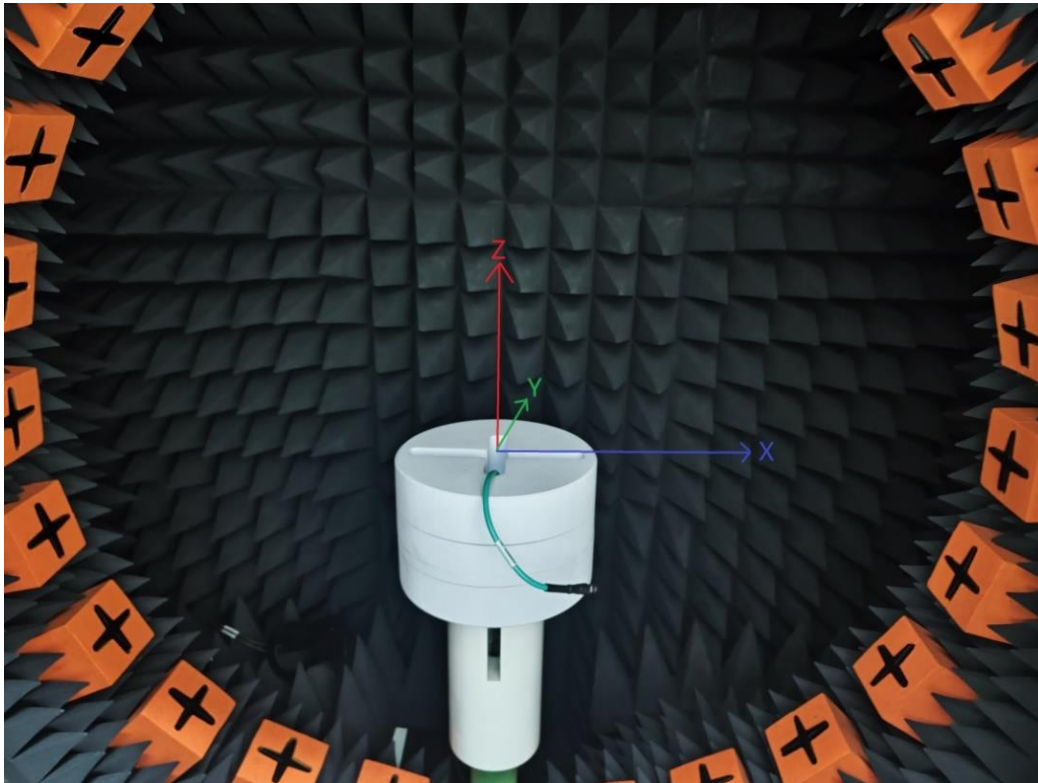


3D Radiation Pattern

2450MHz



Anechoic Chamber Direction Diagram



Anechoic Chamber Test Environment Diagram

