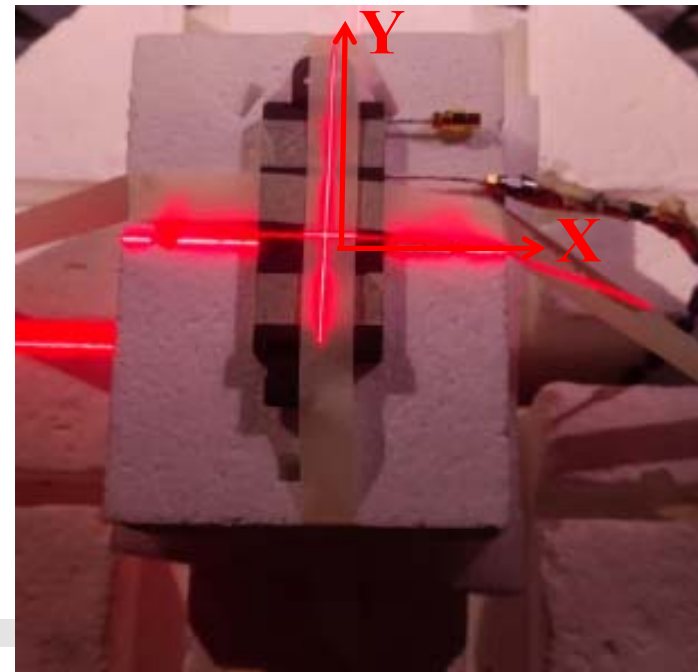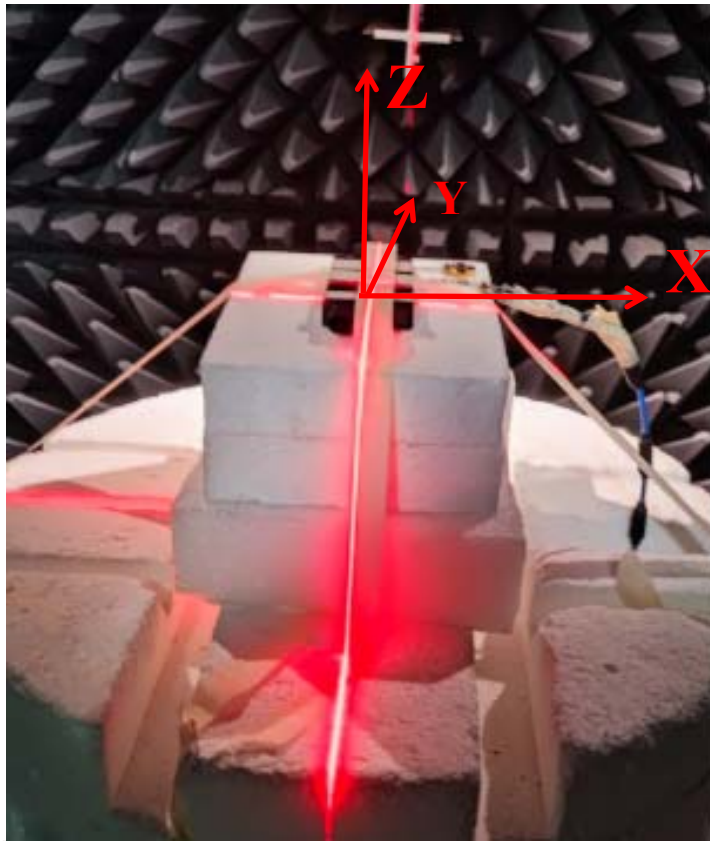# 2005551 Antenna Test Report

2024/4/9

Test setup
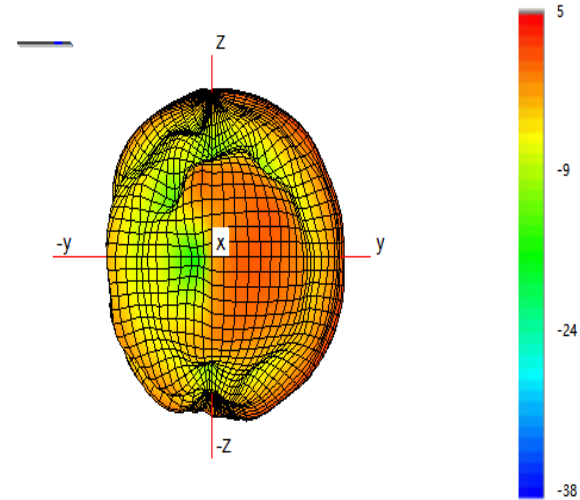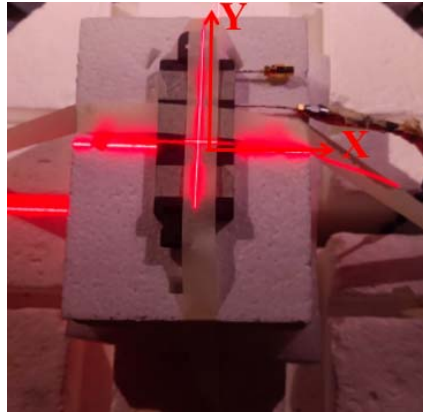
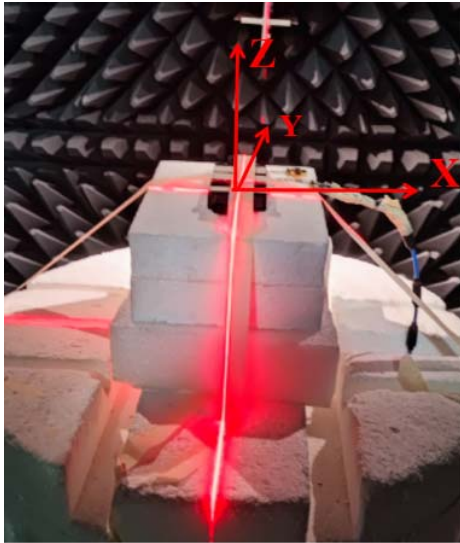# Efficiency & Gain- UWB antenna

	Stardust-B Left	
Freq(MHz)	Efficiency(%)	Gain(dB)
6000	85%	5.22
6050	92%	5.55
6100	92%	5.38
6150	94%	5.29
6200	97%	5.37
6250	89%	4.97
6300	91%	4.95
6350	86%	4.62
6400	86%	4.57
6450	84%	4.38
6500	81%	4.14
6550	86%	4.12
6600	84%	4.18
6650	85%	4.47
6700	85%	4.58
6750	82%	4.46
6800	83%	4.57
6850	81%	4.42
6900	76%	4.10
6950	69%	3.60
7000	69%	3.66
7050	68%	3.53
7100	68%	3.44
7150	70%	3.84
7200	73%	4.02

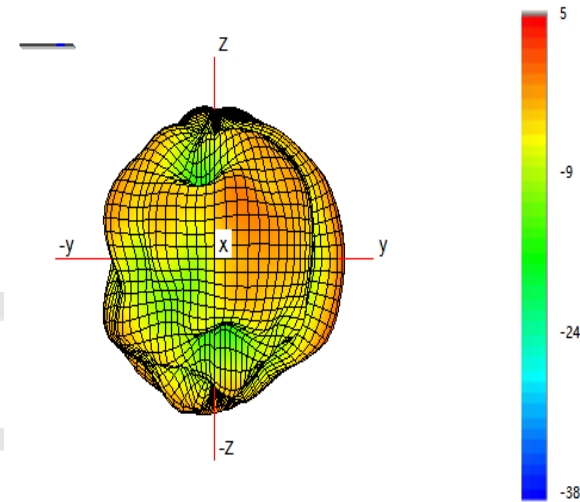|	Stardust-B Left	
Freq(MHz)	Efficiency(%)	Gain
7250	74%	3.99
7300	74%	4.07
7350	76%	4.33
7400	74%	4.18
7450	73%	4.13
7500	72%	3.98
7550	71%	3.90
7600	72%	3.90
7650	72%	3.96
7700	76%	4.34
7750	76%	4.43
7800	76%	4.09
7850	76%	3.90
7900	72%	3.59
7950	71%	3.30
8000	68%	2.98
8050	60%	2.39
8100	57%	2.22
8150	57%	2.29
8200	63%	3.10
8250	66%	3.57
8300	62%	3.37
8350	64%	3.75
8400	68%	4.17
8450	67%	4.14
8500	67%	4.17

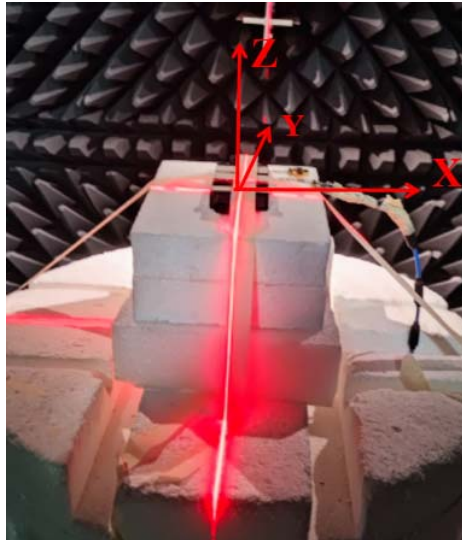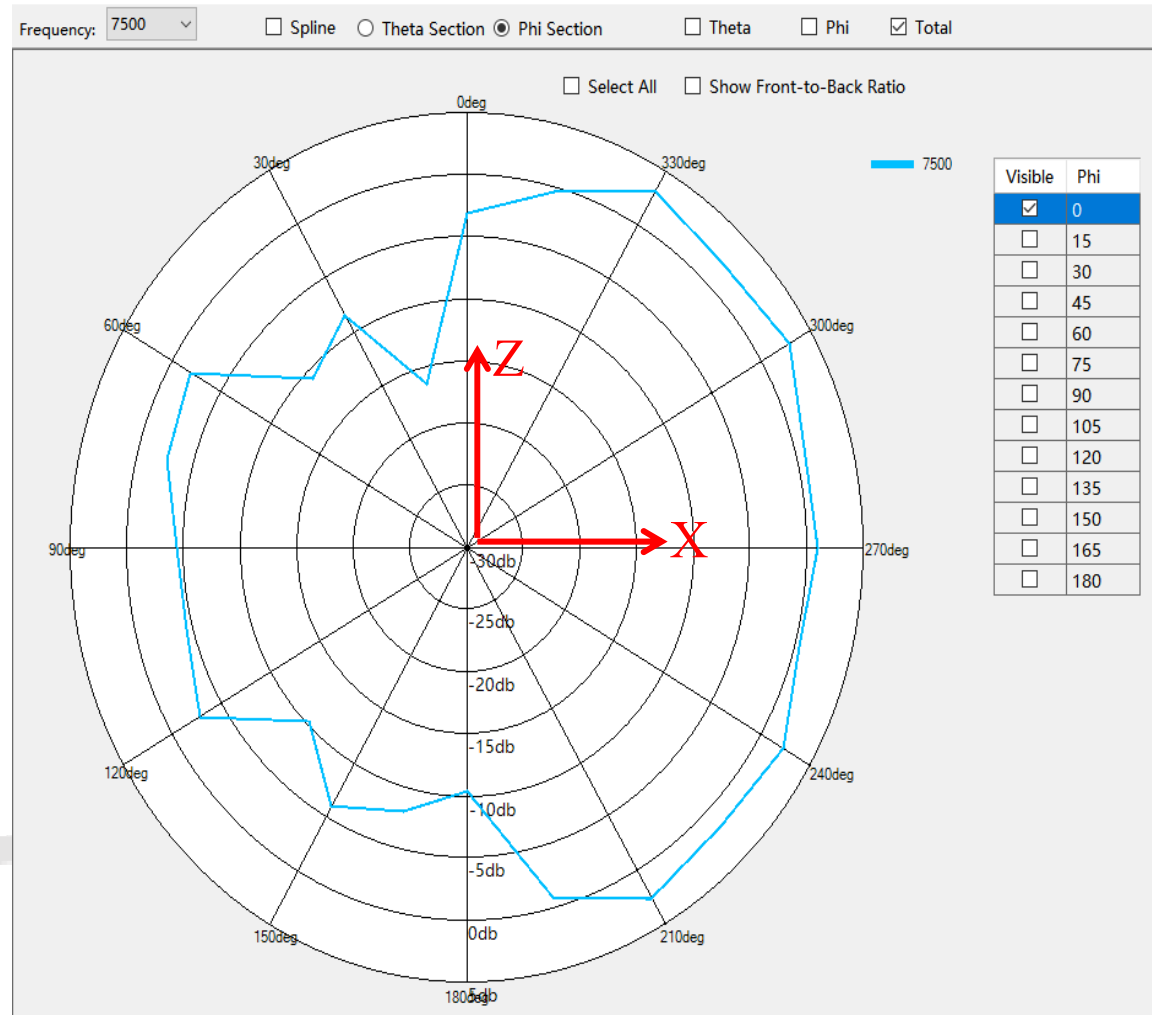# UWB Antenna _3D Radiation Pattern(Stardust-B Left)
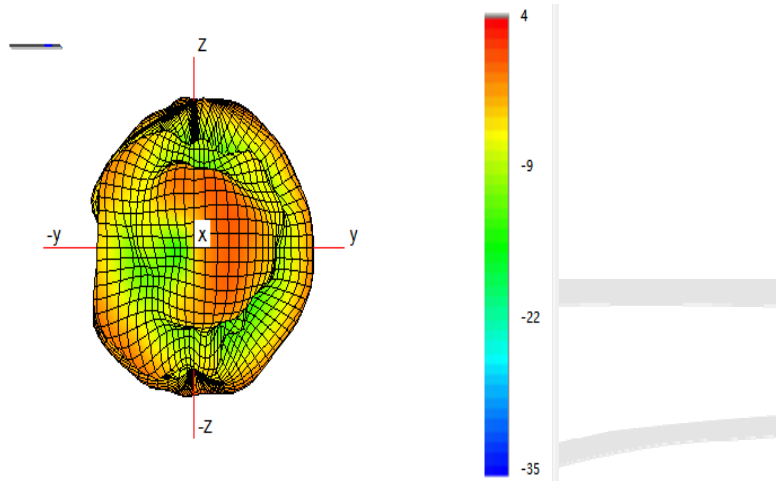
6500 MHz

7500 MHz

8500 MHz
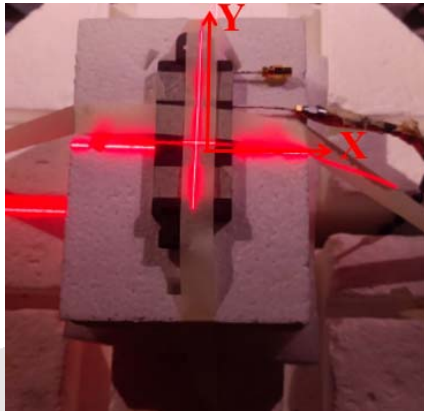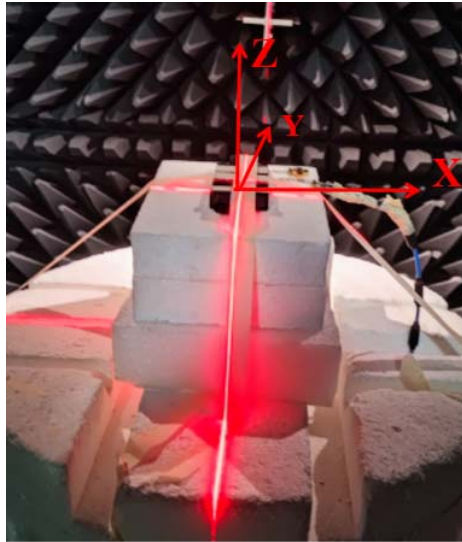
UWB Antenna _2D Radiation Pattern(Stardust-B Left)
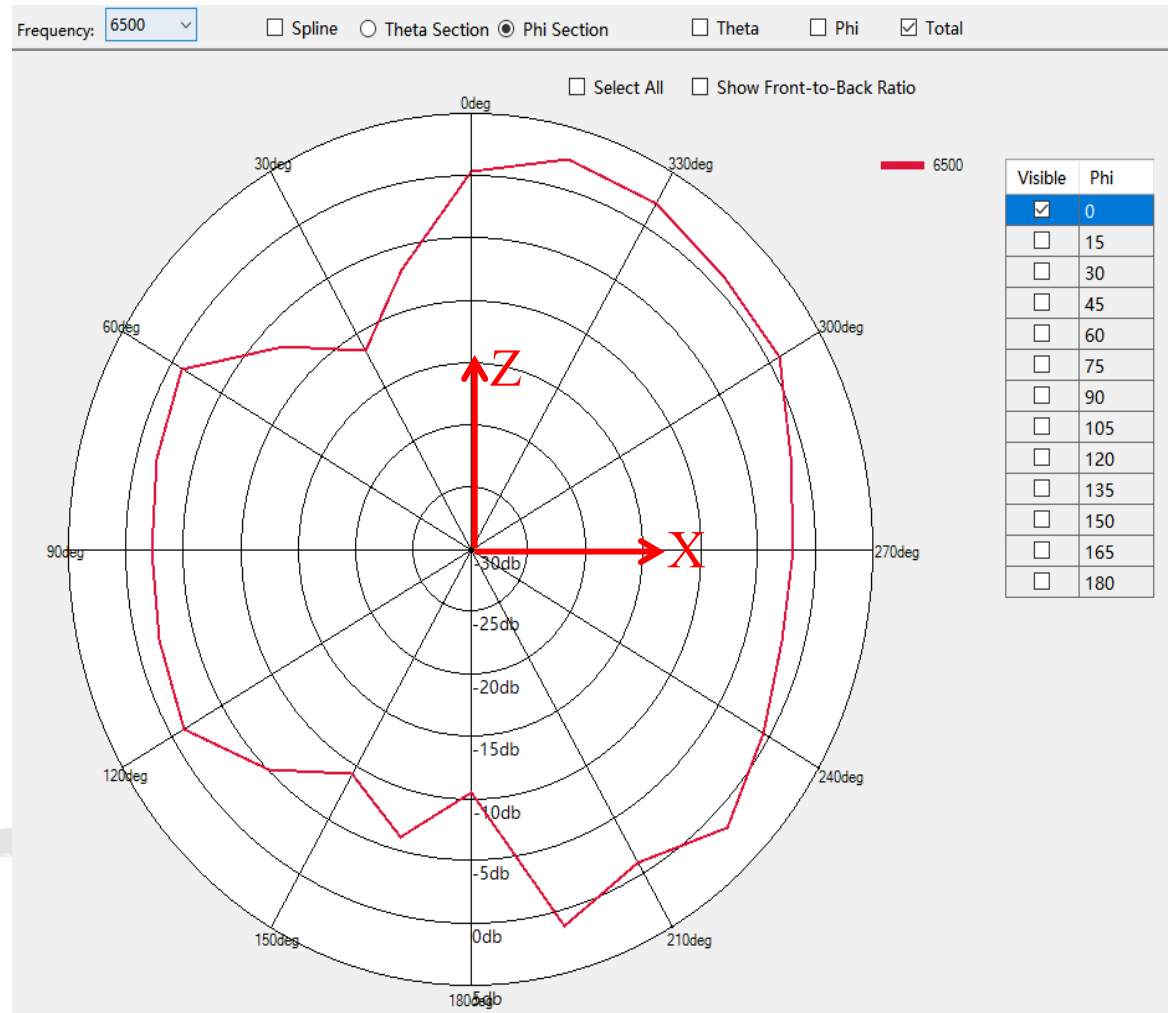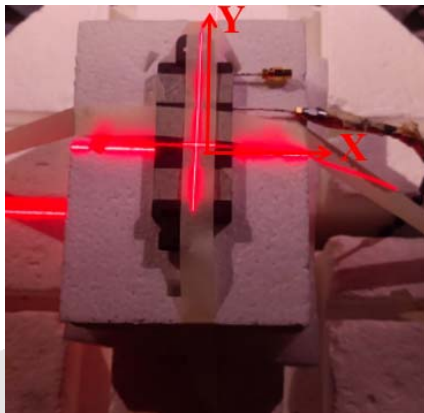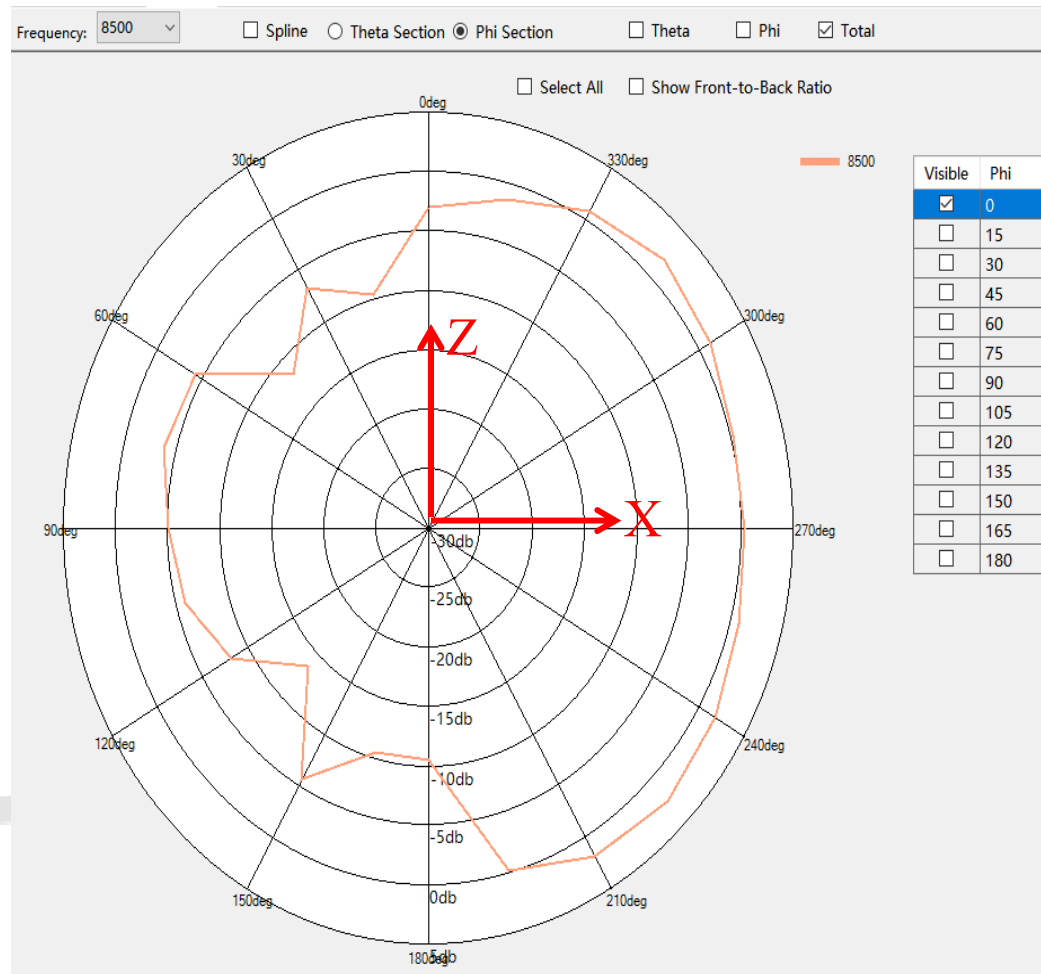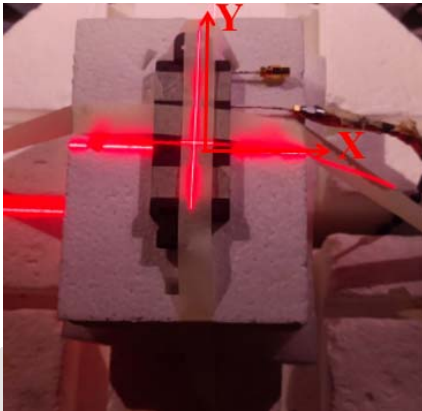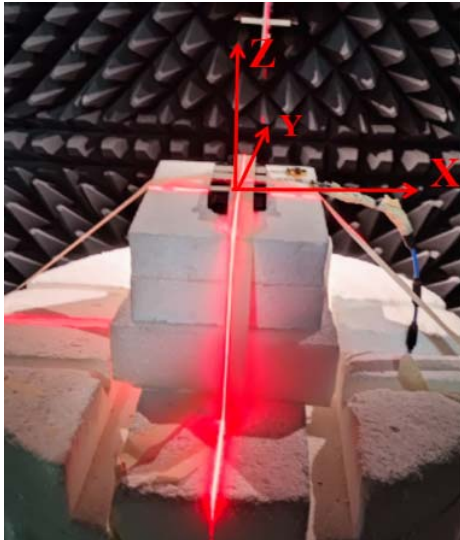

6500MHz XZ plot

UWB Antenna _2D Radiation Pattern(Stardust-B Left)

7500MHz XZ plot
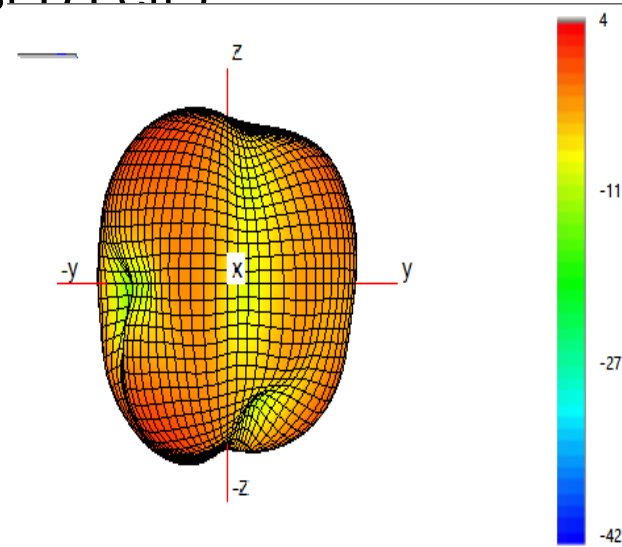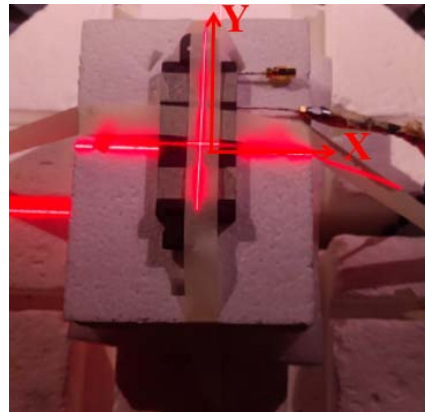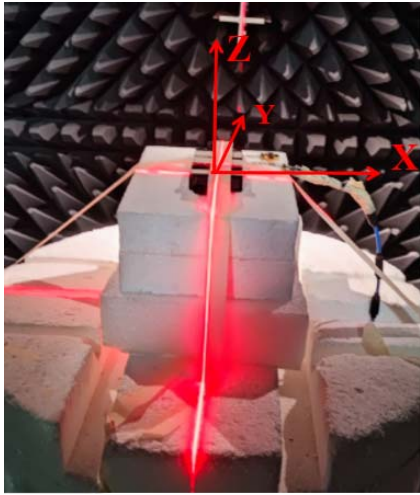
UWB Antenna _2D Radiation Pattern(Stardust-B Left)
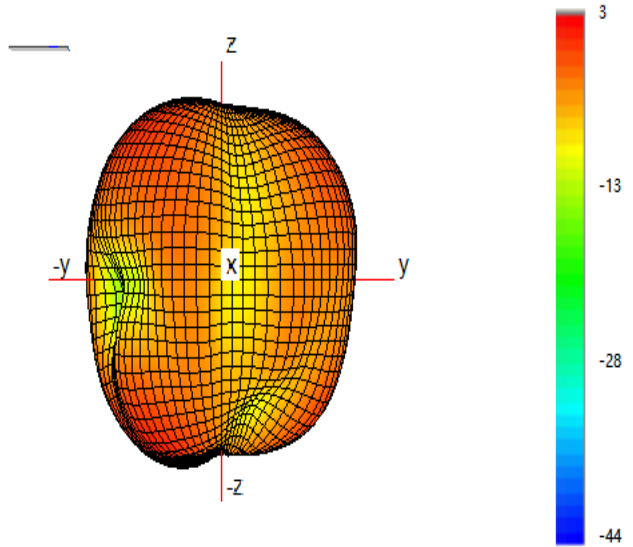

8500MHz XZ plot

Efficiency & Gain- BLE antenna

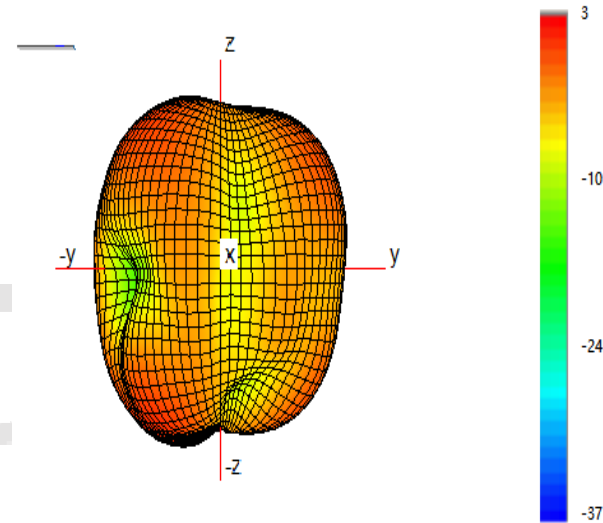|	Stardust-B Left	
Freq(MHz)	Efficiency(%)	Gain(dB)
2300	74%	3.13
2310	74%	3.26
2320	75%	3.09
2330	77%	3.14
2340	77%	3.09
2350	78%	3.10
2360	79%	3.09
2370	79%	3.03
2380	80%	3.00
2390	80%	3.02
2400	79%	3.00
2410	78%	2.94
2420	78%	2.94
2430	77%	2.90
2440	77%	2.93
2450	78%	2.86
2460	78%	2.89
2470	79%	2.83
2480	79%	2.78
2490	79%	2.64
2500	78%	2.44
2510	77%	2.35
2520	77%	2.32
2530	75%	2.18
2540	74%	2.12
2550	71%	2.03
2560	69%	2.01
2570	68%	1.99
2580	67%	1.94
2590	68%	1.89
2600	66%	1.85

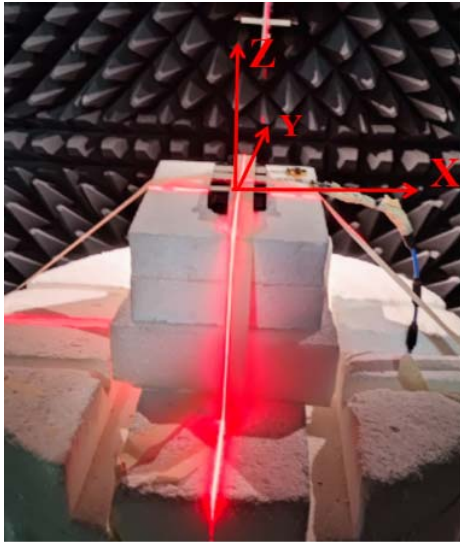# BLE Antenna _3D Radiation Pattern(Stardust-B Left)
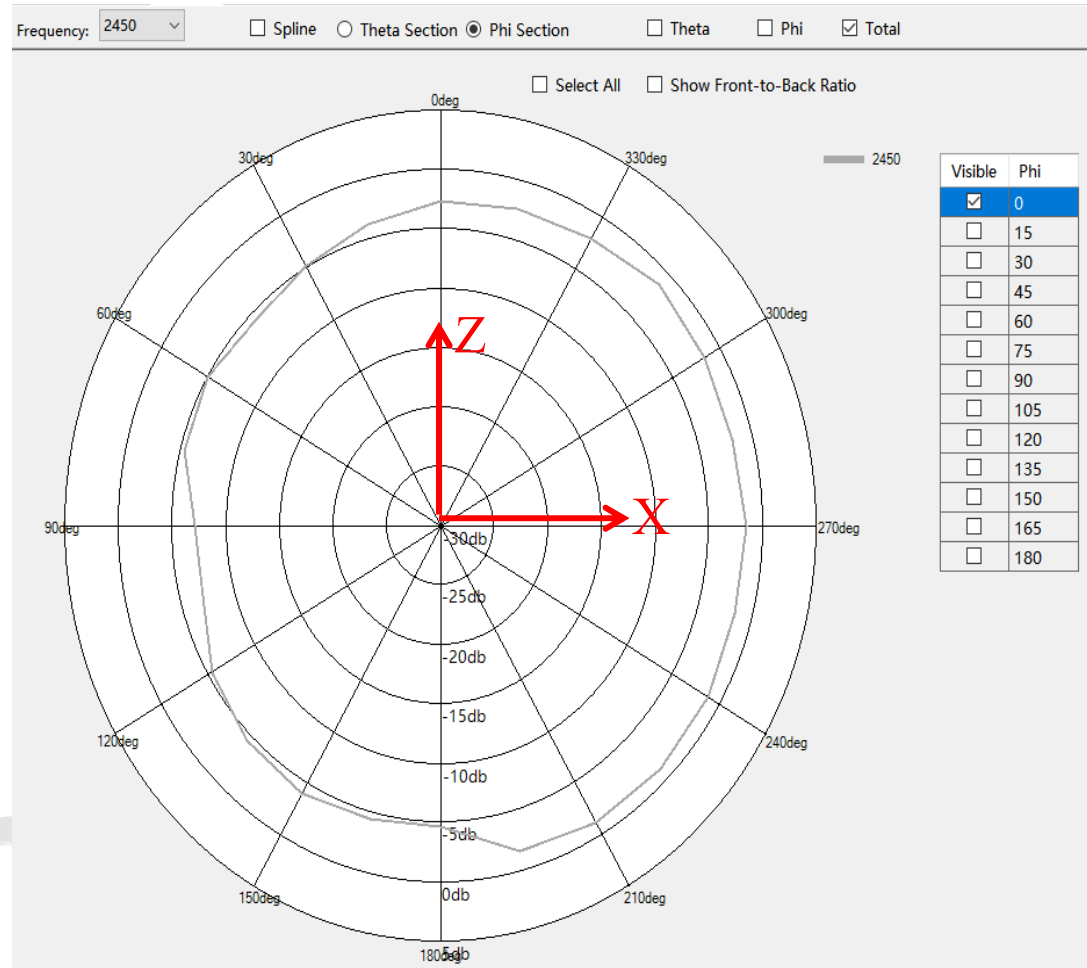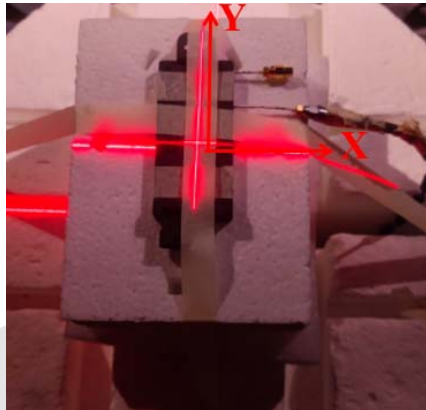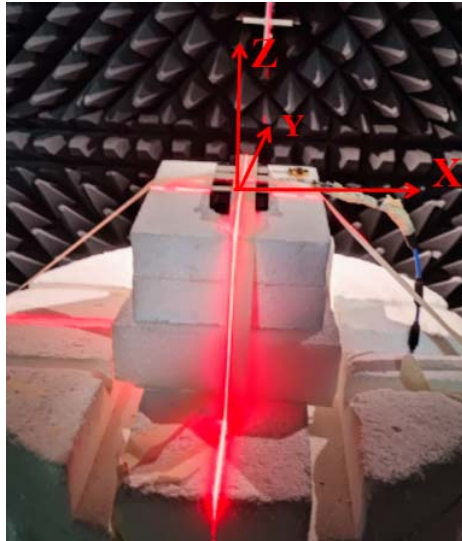

2400 MHz

2450 MHz

2500 MHz

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BLE Antenna   2D Radiation Pattern (Stardust-B Left)

2400MHz XZ plot

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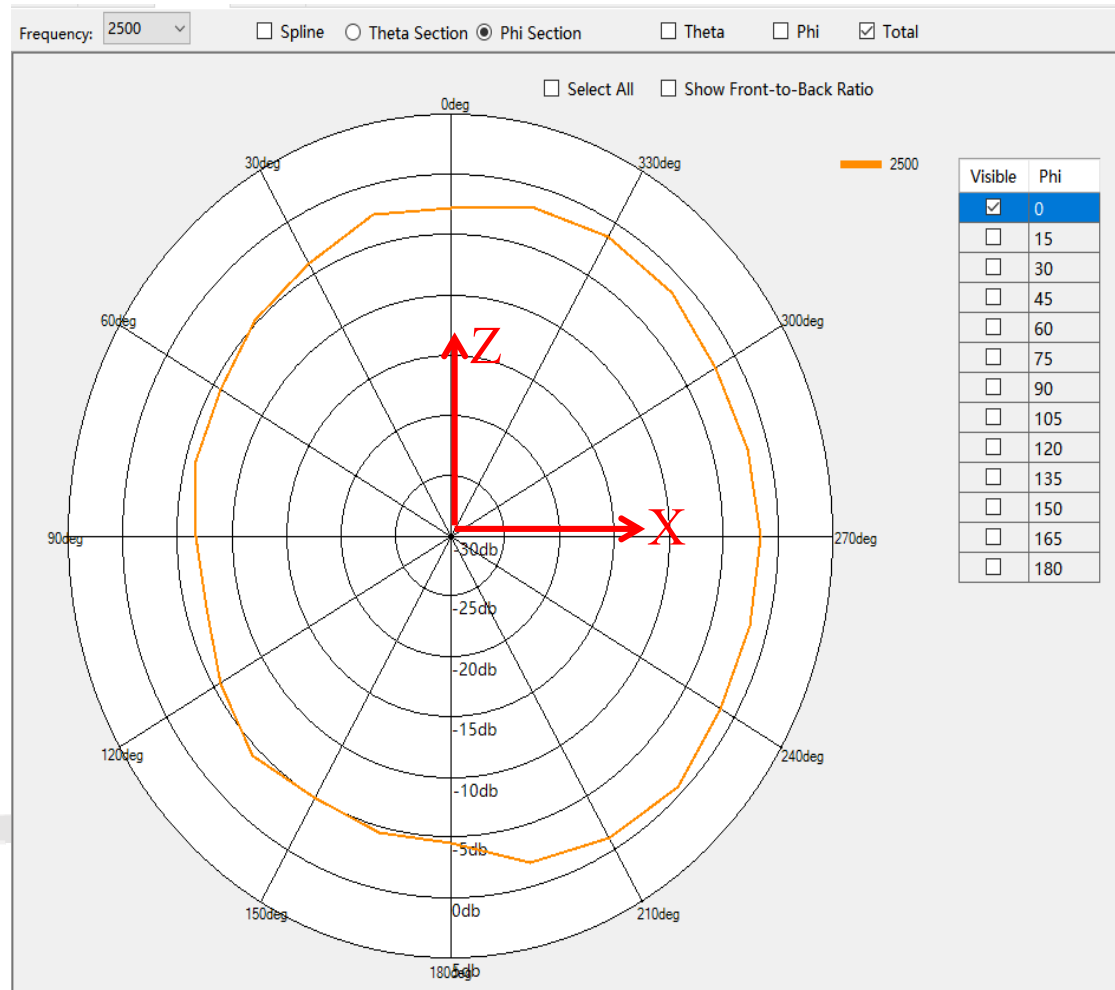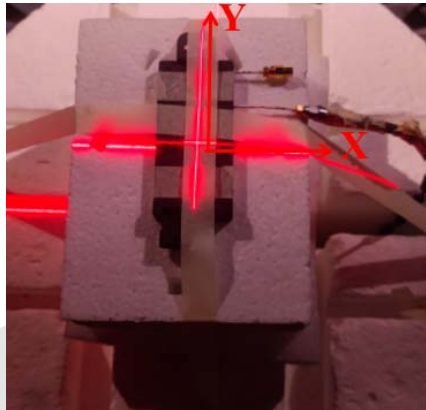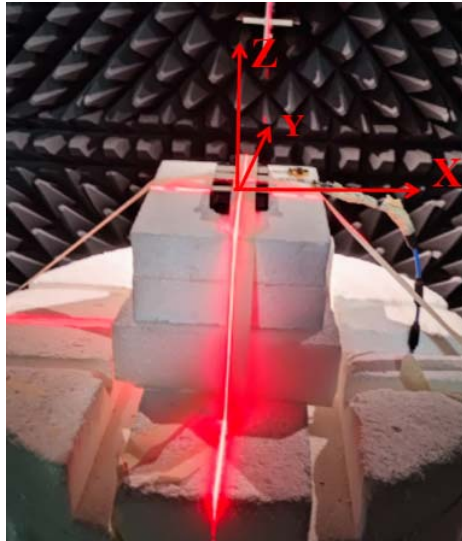# BLE Antenna _2D Radiation Pattern (Stardust-B Left)
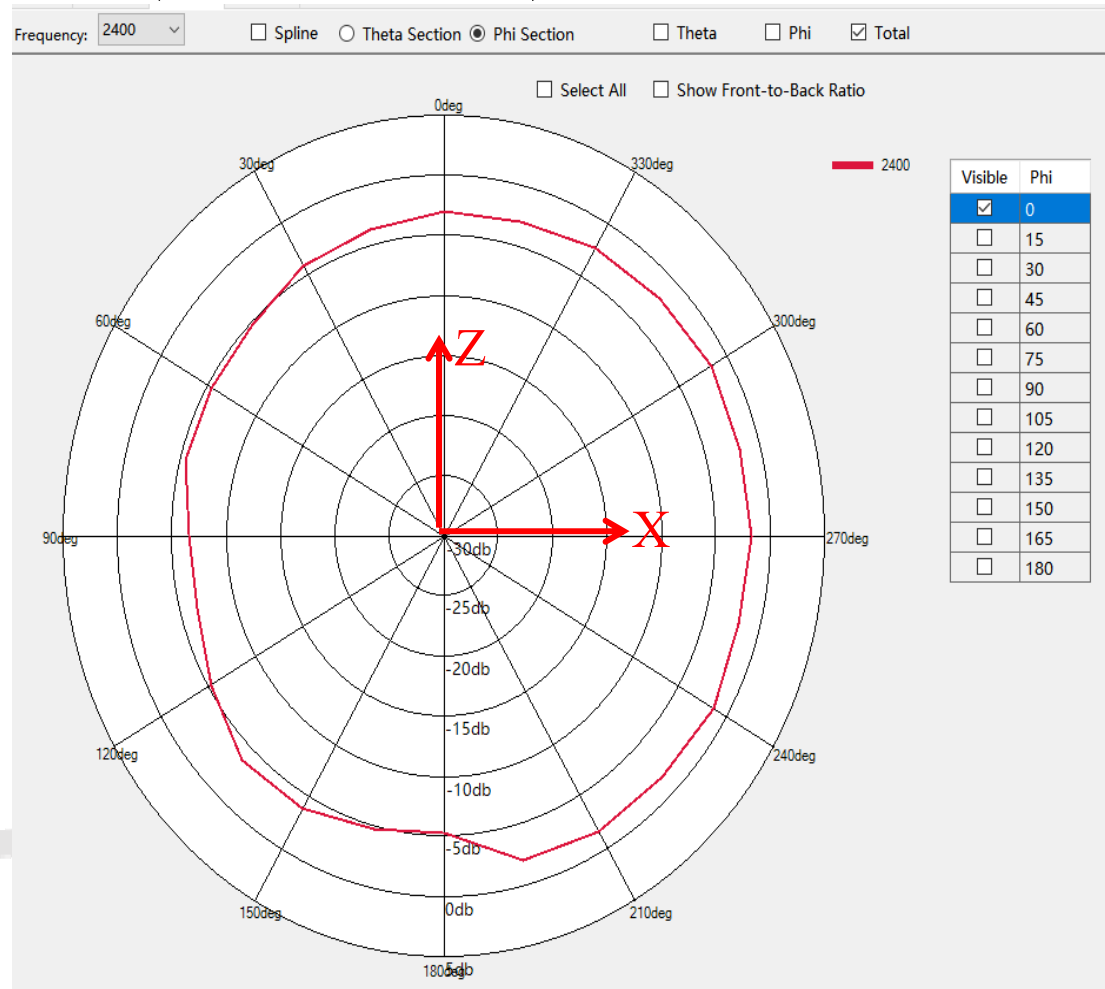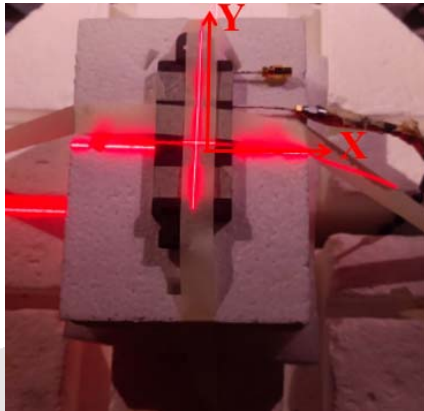
2450MHz XZ plot

BLE Antenna _2D Radiation Pattern (Stardust-B Left)

2500MHz XZ plot

Thanks !