



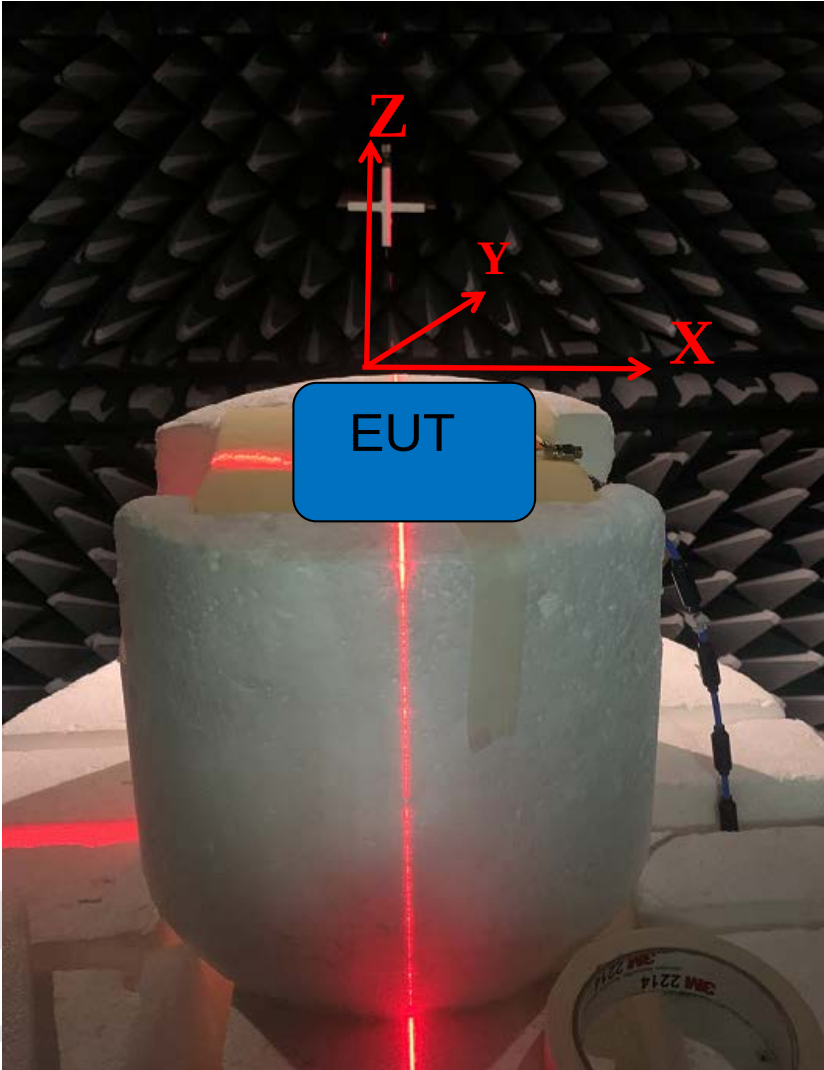
B-Pillar

UWB/BLE Antenna Test Report

2023/7/17



Test setup

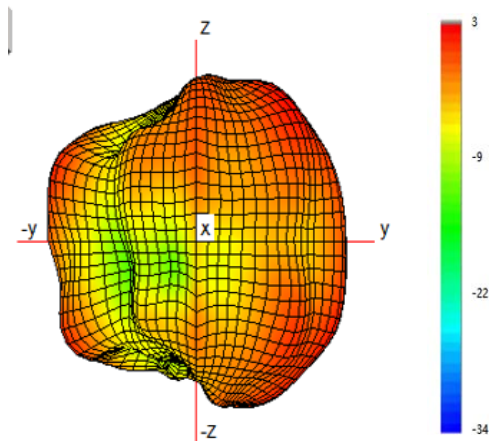




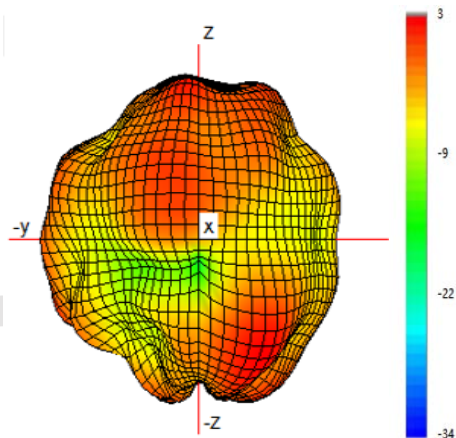
Efficiency & Gain- UWB antenna

Freq(MHz)	Gain	Freq(MHz)	Gain
6000	2.44	7250	2.07
6050	2.67	7300	2.05
6100	2.55	7350	2.11
6150	2.60	7400	2.22
6200	2.61	7450	2.39
6250	2.50	7500	2.72
6300	2.55	7550	2.40
6350	2.64	7600	2.46
6400	2.86	7650	2.57
6450	2.82	7700	2.77
6500	2.64	7750	3.05
6550	2.85	7800	3.06
6600	2.76	7850	2.93
6650	2.65	7900	3.09
6700	2.37	7950	2.99
6750	2.27	8000	2.64
6800	2.21	8050	1.95
6850	2.02	8100	1.78
6900	1.58	8150	1.63
6950	1.19	8200	1.39
7000	1.15	8250	0.85
7050	1.19	8300	0.33
7100	1.42	8350	0.20
7150	1.52	8400	-0.09
7200	1.72	8450	-0.44
		8500	-0.62

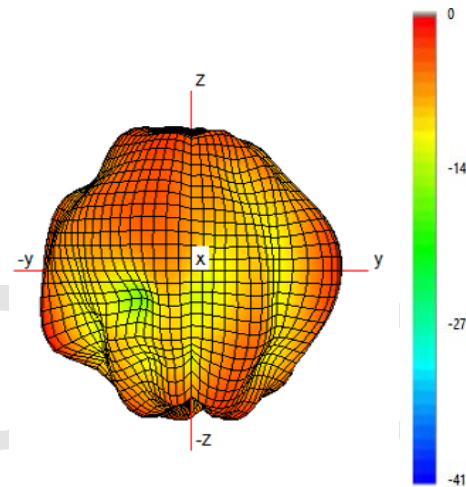
UWB Antenna _3D Radiation Pattern



6500 MHz



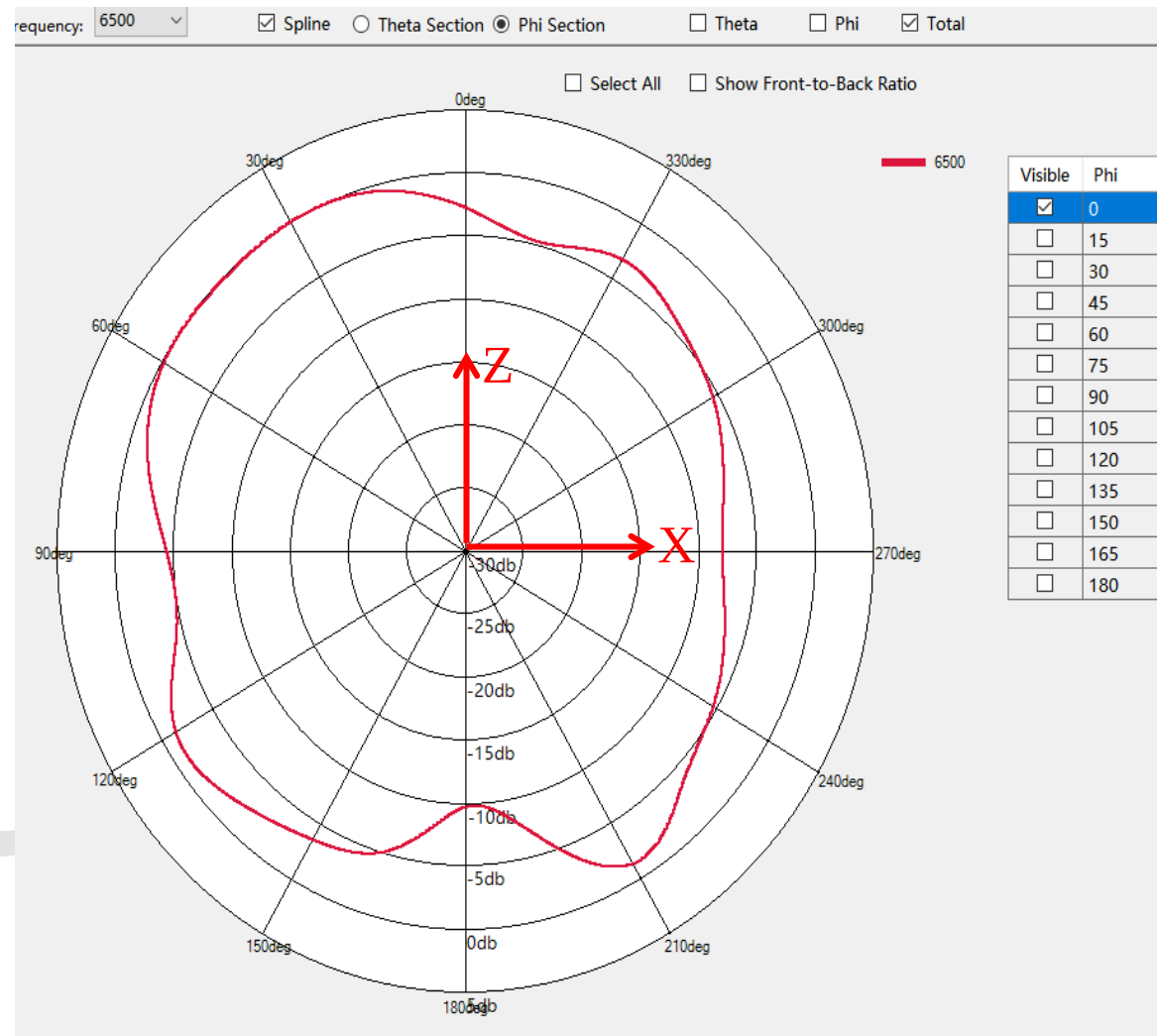
7500 MHz



8500 MHz



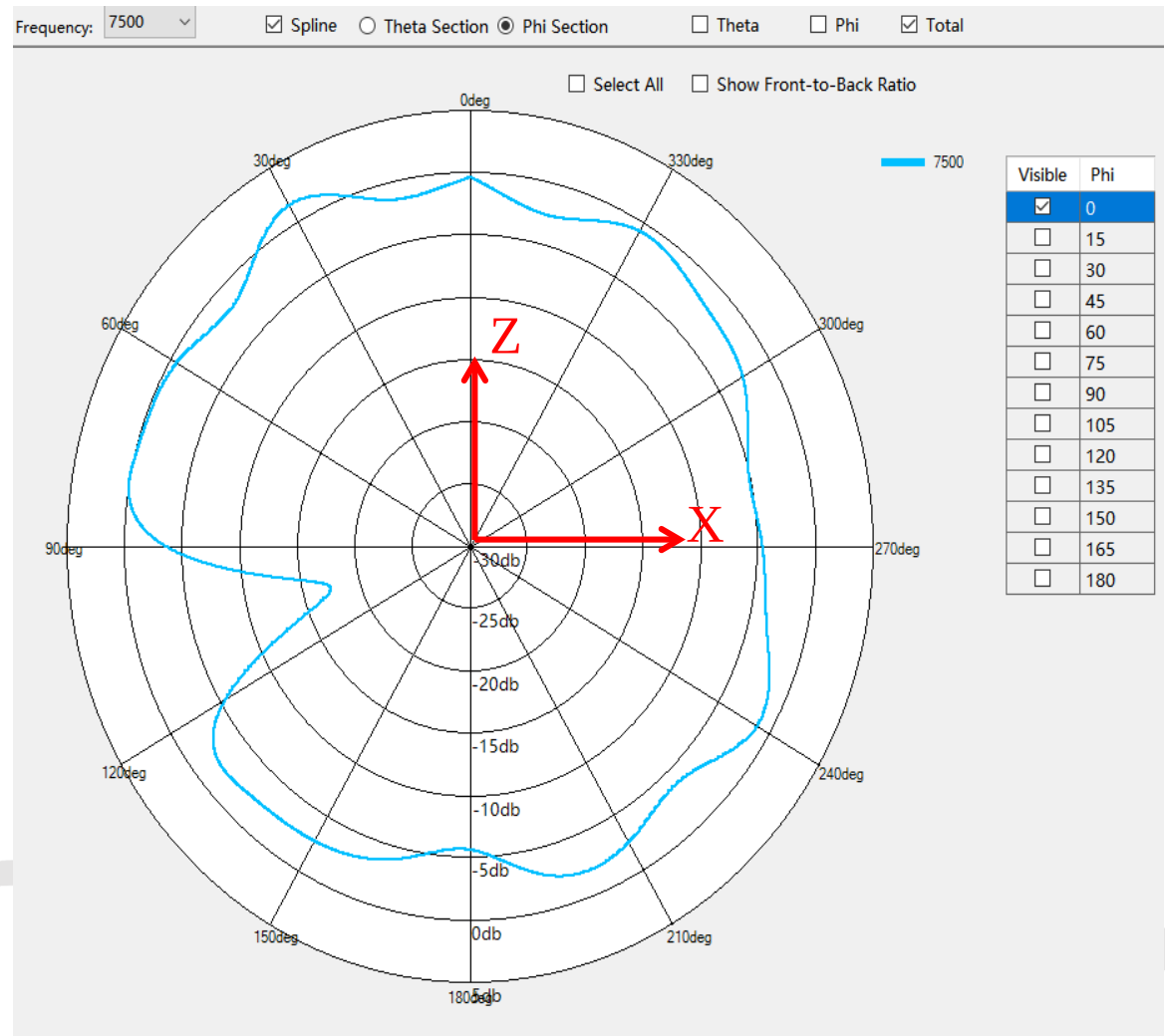
UWB Antenna _2D Radiation Pattern



6500MHz XZ plot



UWB Antenna _2D Radiation Pattern

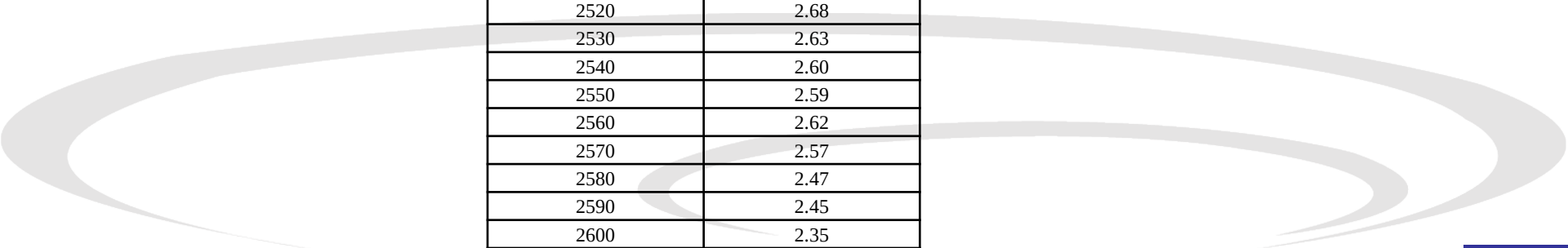


7500MHz XZ plot

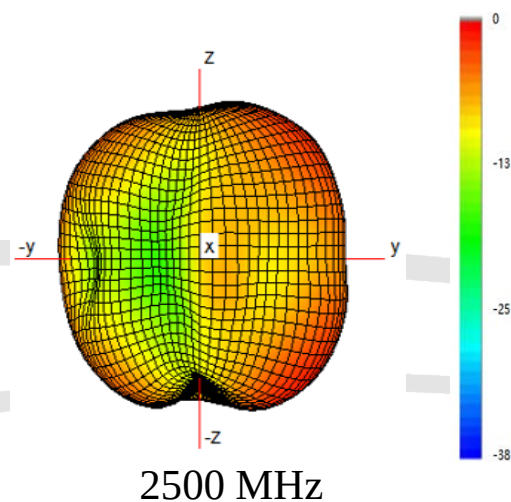
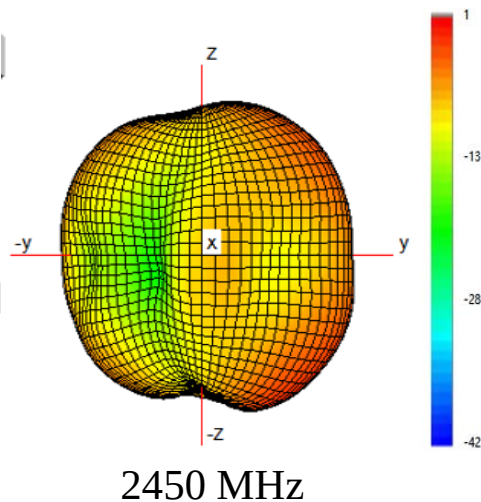
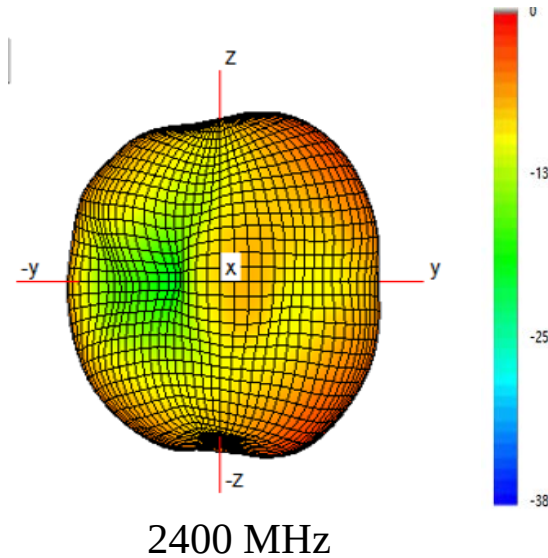


Efficiency & Gain- BLE antenna

Freq(MHz)	Gain
2300	1.84
2310	1.83
2320	1.91
2330	1.99
2340	1.99
2350	1.97
2360	2.09
2370	2.17
2380	2.33
2390	2.37
2400	2.35
2410	2.30
2420	2.25
2430	2.28
2440	2.29
2450	2.36
2460	2.40
2470	2.41
2480	2.47
2490	2.55
2500	2.62
2510	2.64
2520	2.68
2530	2.63
2540	2.60
2550	2.59
2560	2.62
2570	2.57
2580	2.47
2590	2.45
2600	2.35

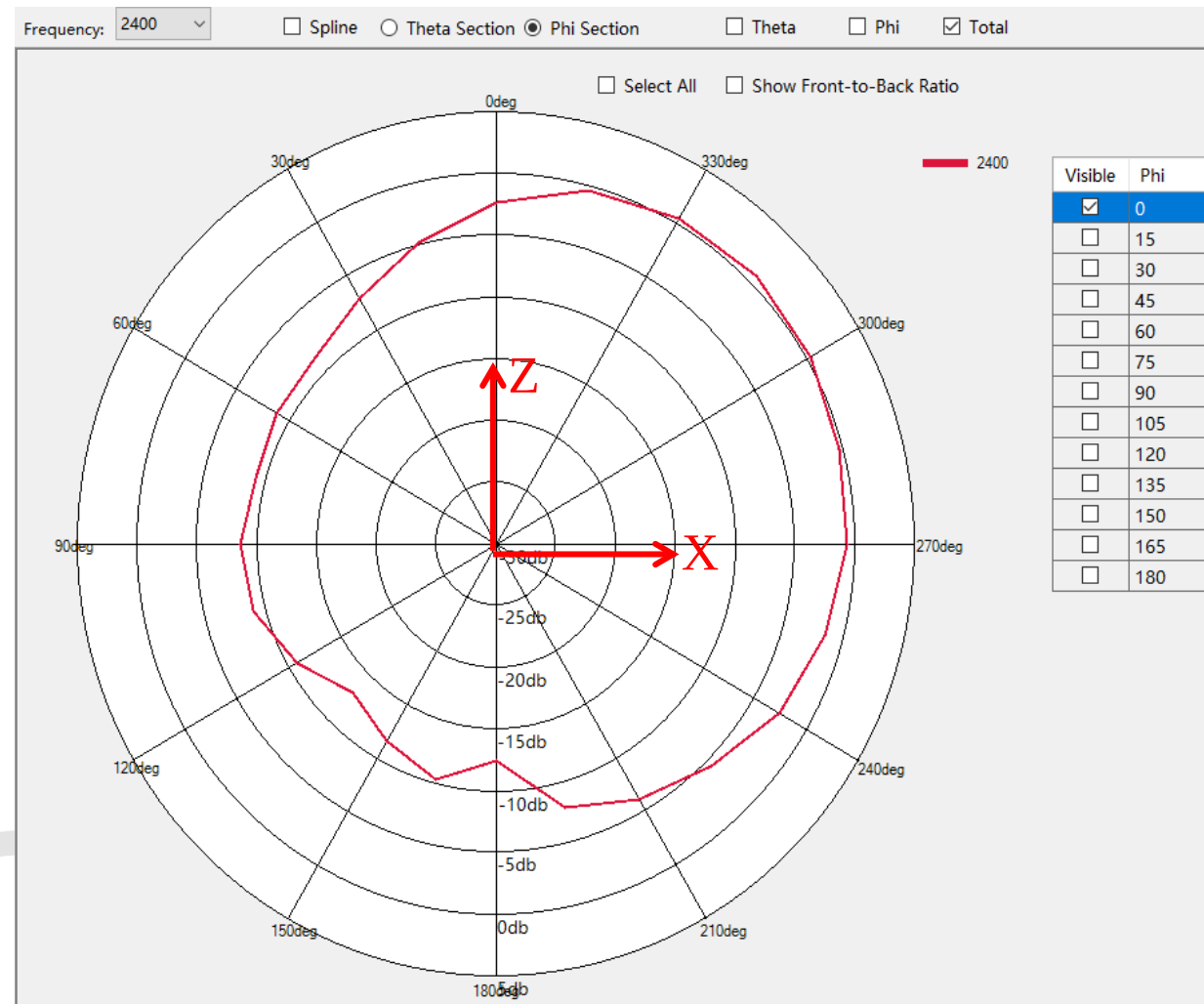


BLE Antenna _3D Radiation Pattern



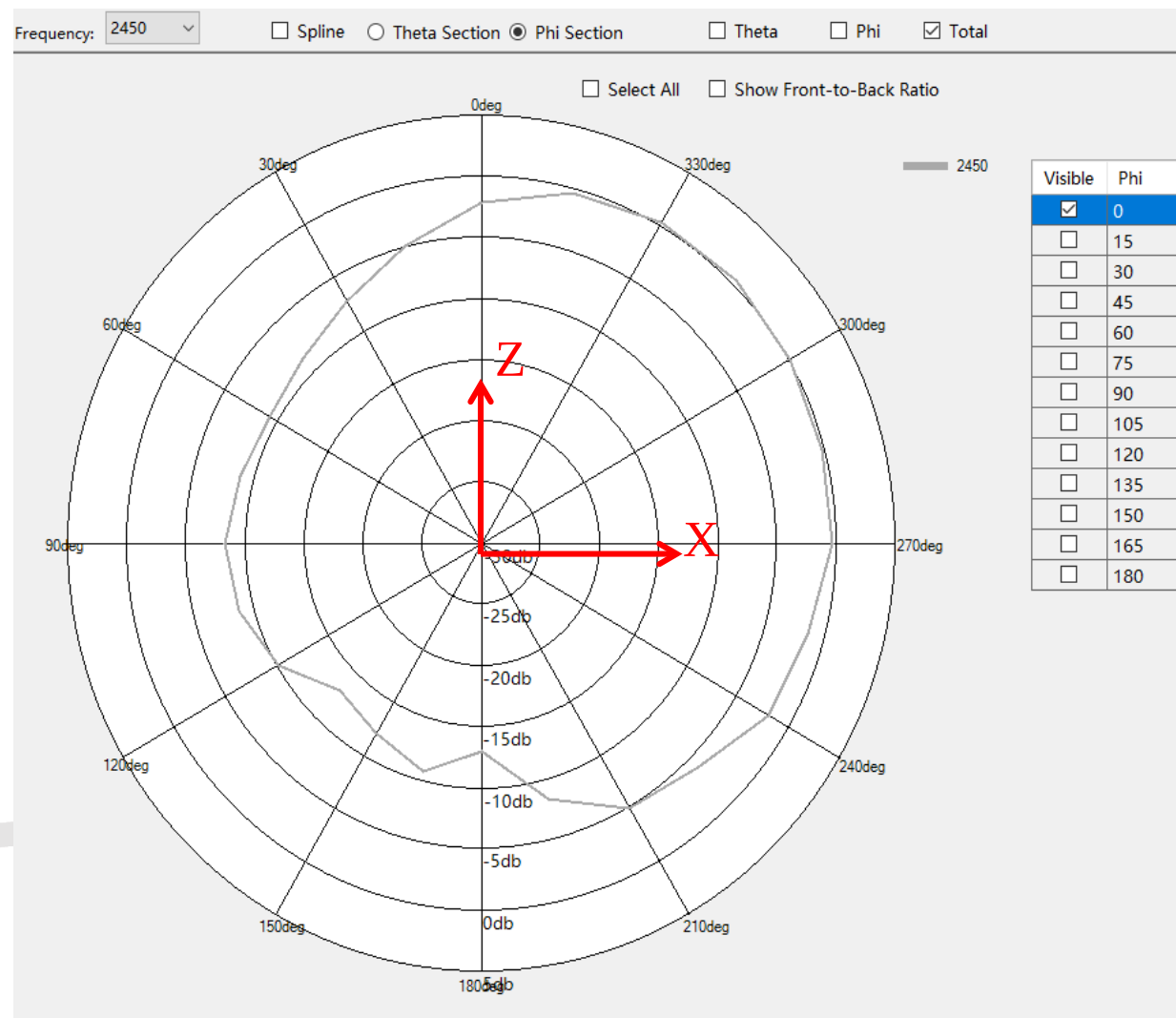


BLE Antenna _2D Radiation Pattern



2400MHz XZ plot

BLE Antenna _2D Radiation Pattern



2450MHz XZ plot

Frequency: 2500 ☐ Spline ☐ Theta Section ☒ Phi Section ☐ Theta ☐ Phi ☒ Total

☐ Select All ☐ Show Front-to-Back Ratio

0deg 30deg 330deg 300deg 270deg 240deg 210deg 180deg 150deg 120deg 90deg 60deg

0db -5db -10db -15db -20db -25db -30db

2500

Visible	Phi
☒	0
☐	15
☐	30
☐	45
☐	60
☐	75
☐	90
☐	105
☐	120
☐	135
☐	150
☐	165
☐	180

2500MHz XZ plot



Thanks !

