



# **B-Pillar**

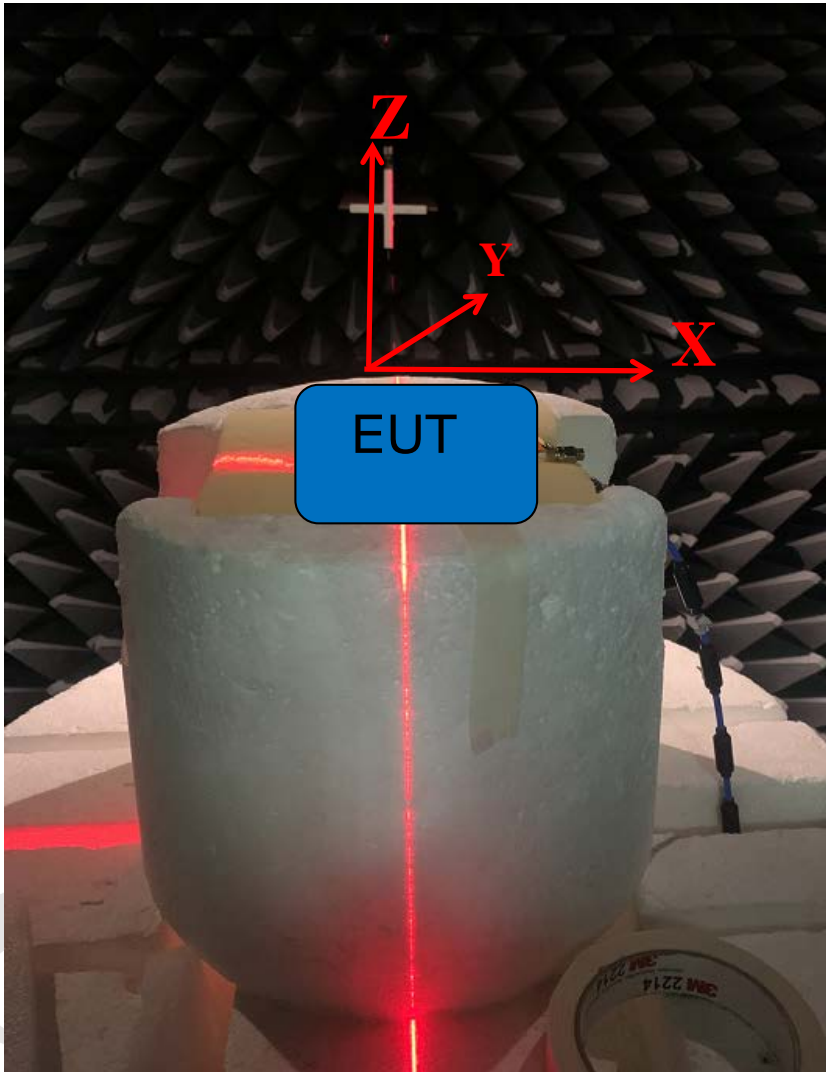
# **UWB/BLE Antenna Test Report**

2023/7/17





## Test setup

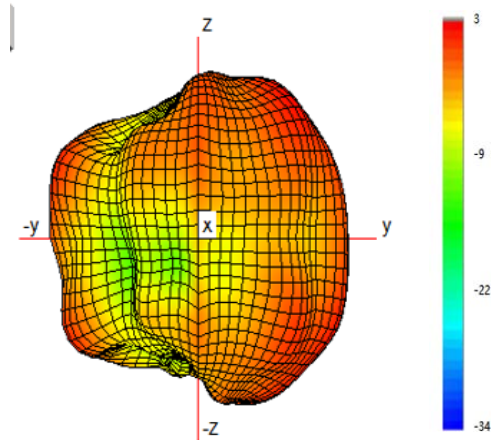




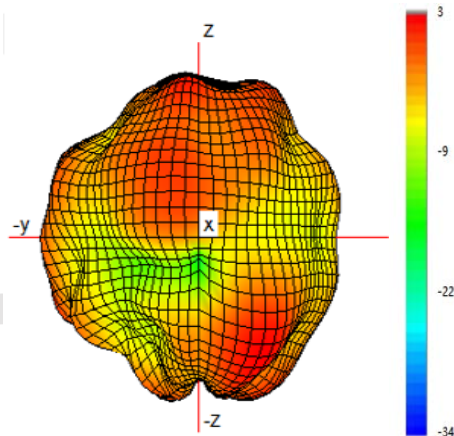
# Efficiency & Gain- UWB antenna

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

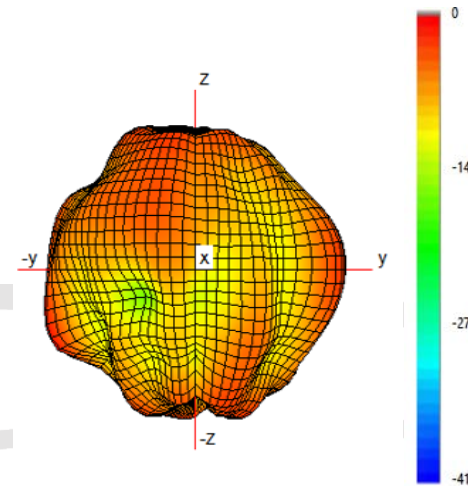
## UWB Antenna \_3D Radiation Pattern



6500 MHz

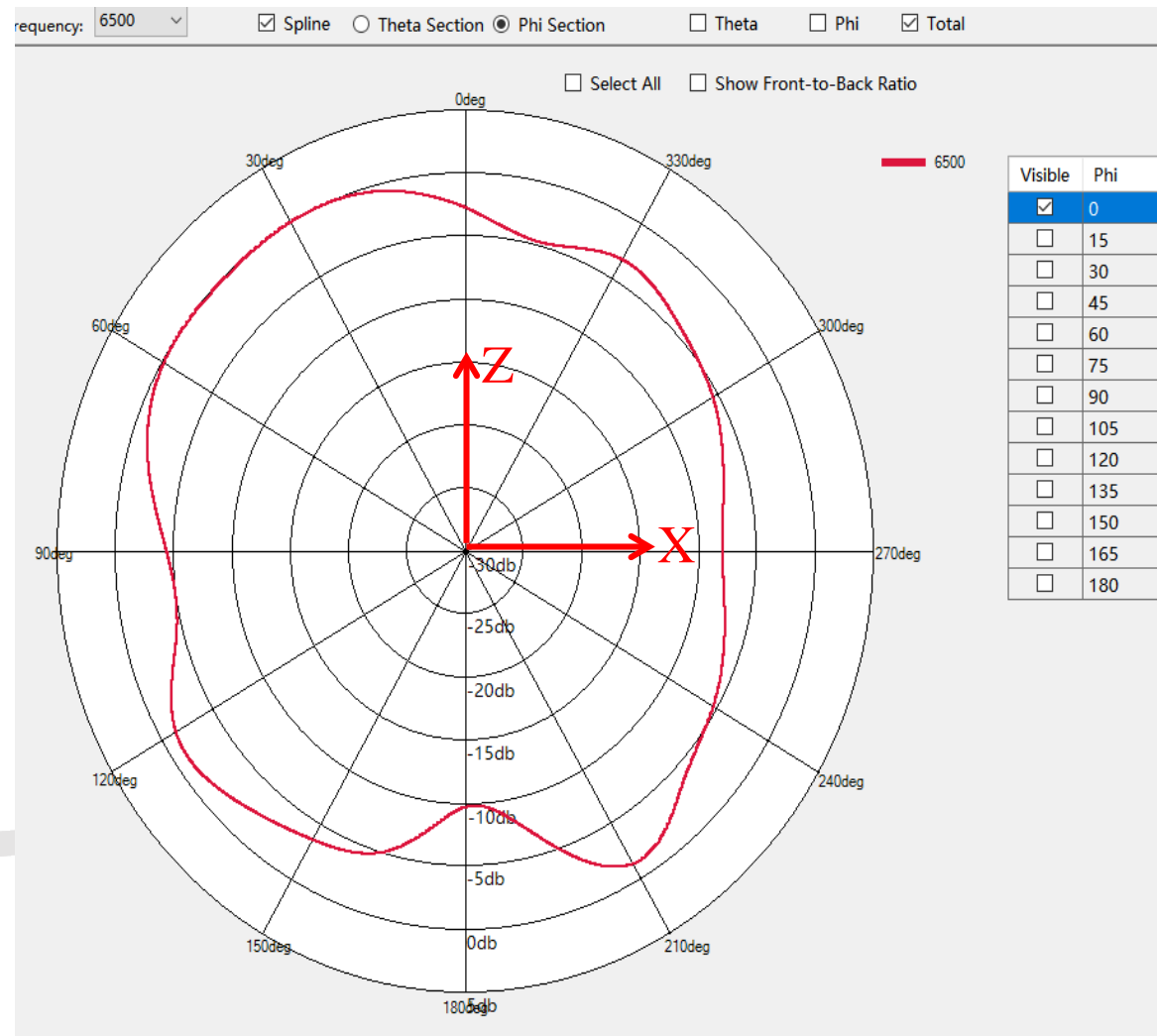


7500 MHz



8500 MHz

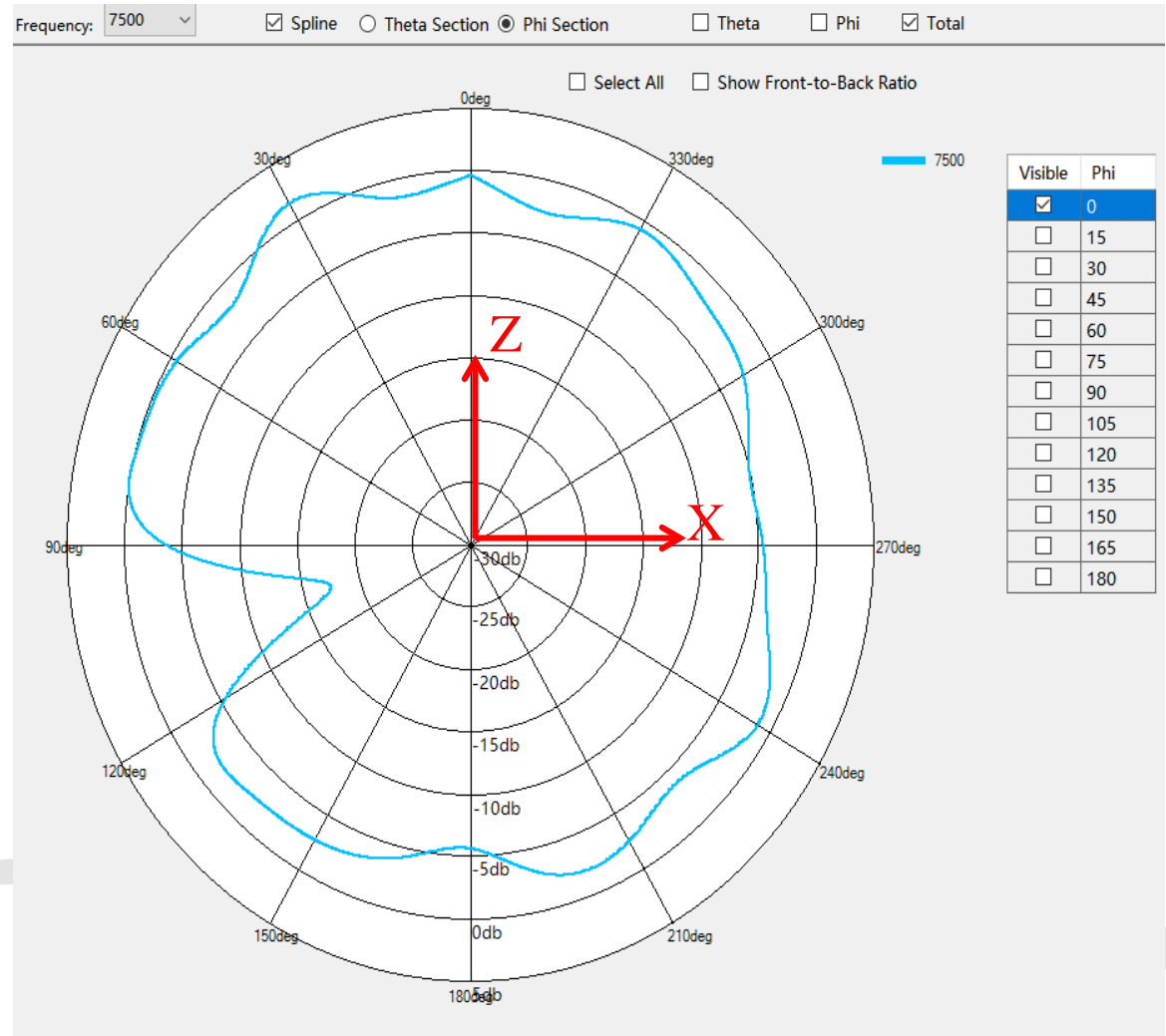
# UWB Antenna \_2D Radiation Pattern



6500MHz XZ plot

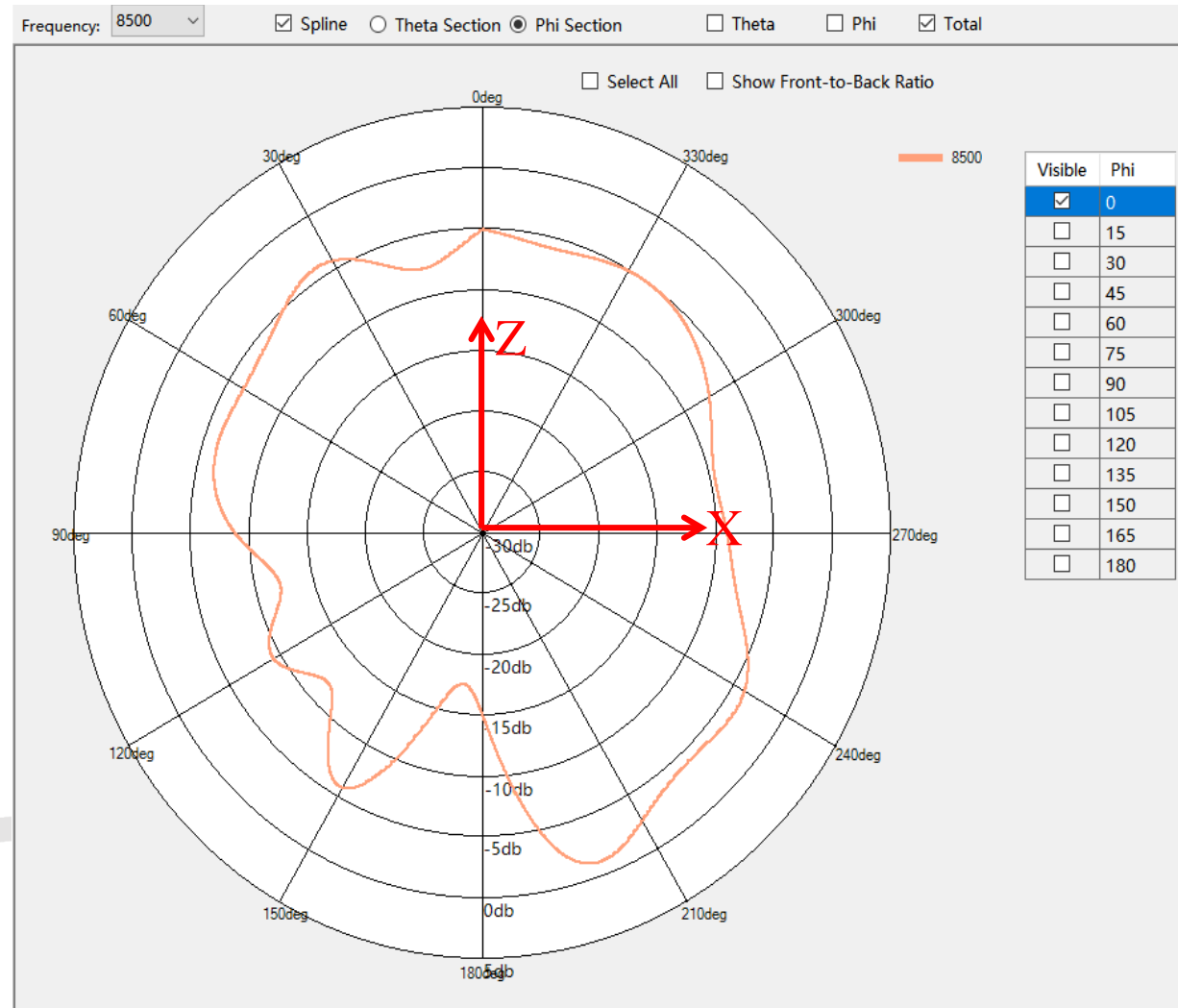


# UWB Antenna \_2D Radiation Pattern



7500MHz XZ plot

# UWB Antenna \_2D Radiation Pattern

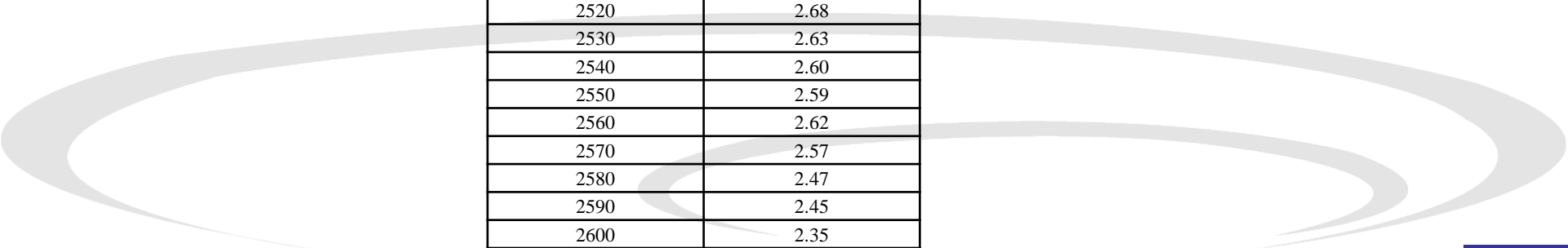


8500MHz XZ plot



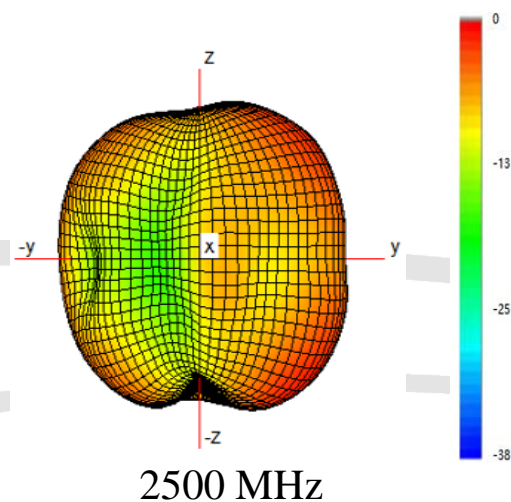
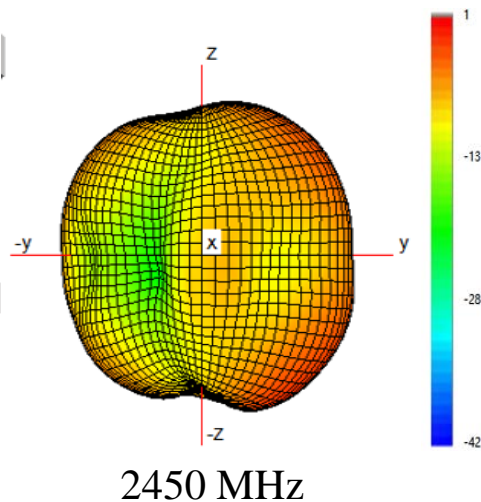
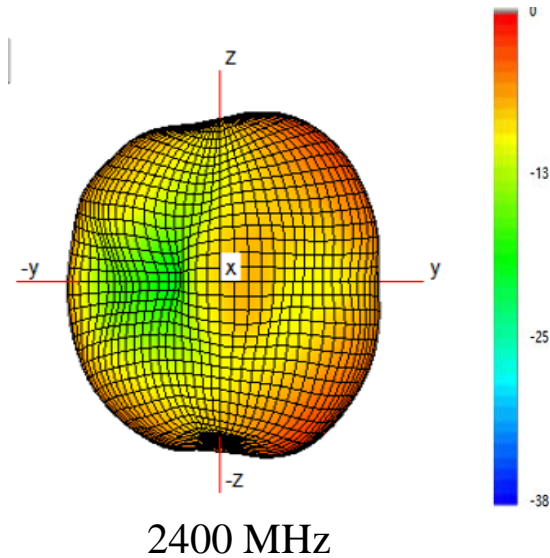
# Efficiency & Gain- BLE antenna

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



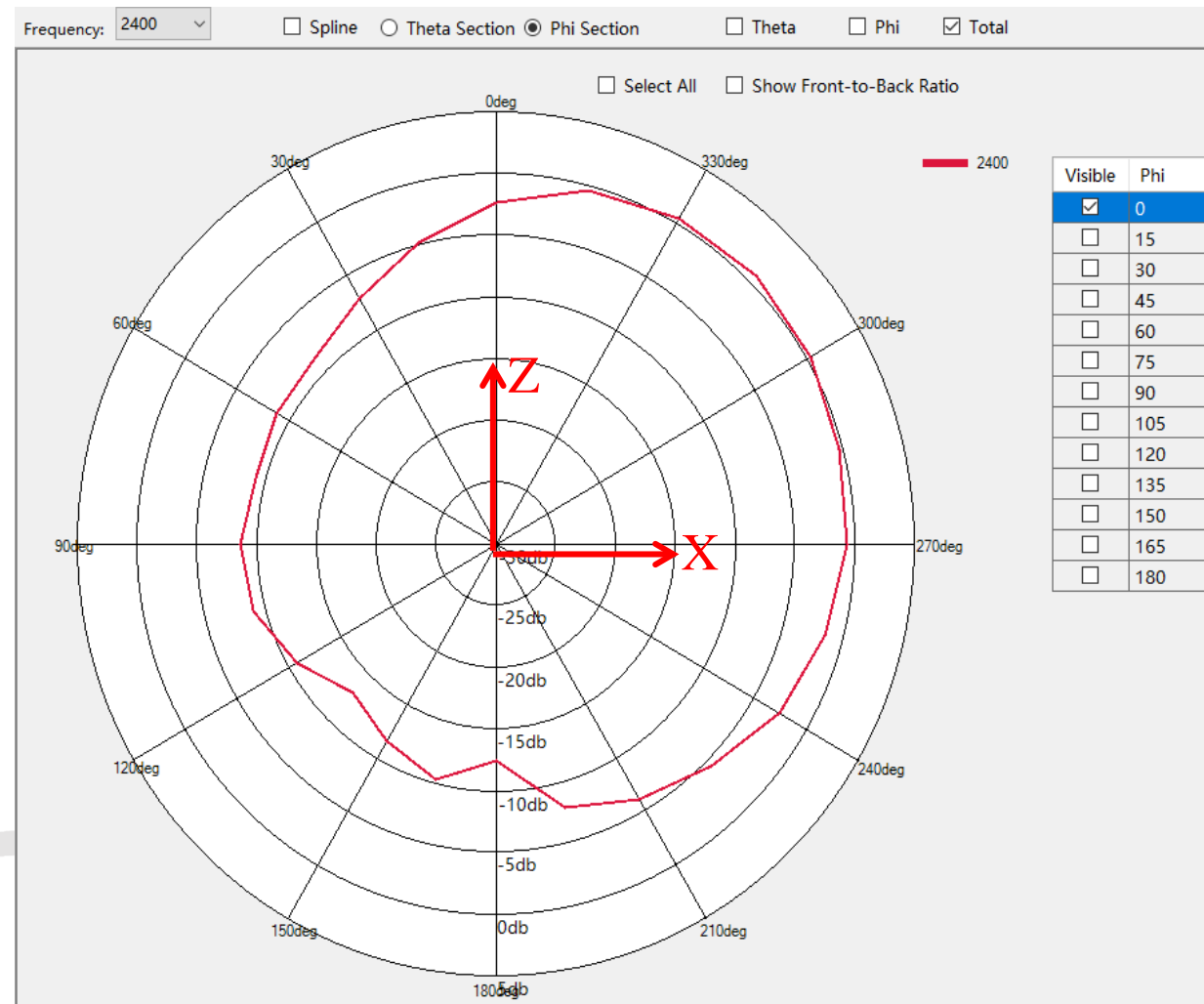


## BLE Antenna \_3D Radiation Pattern





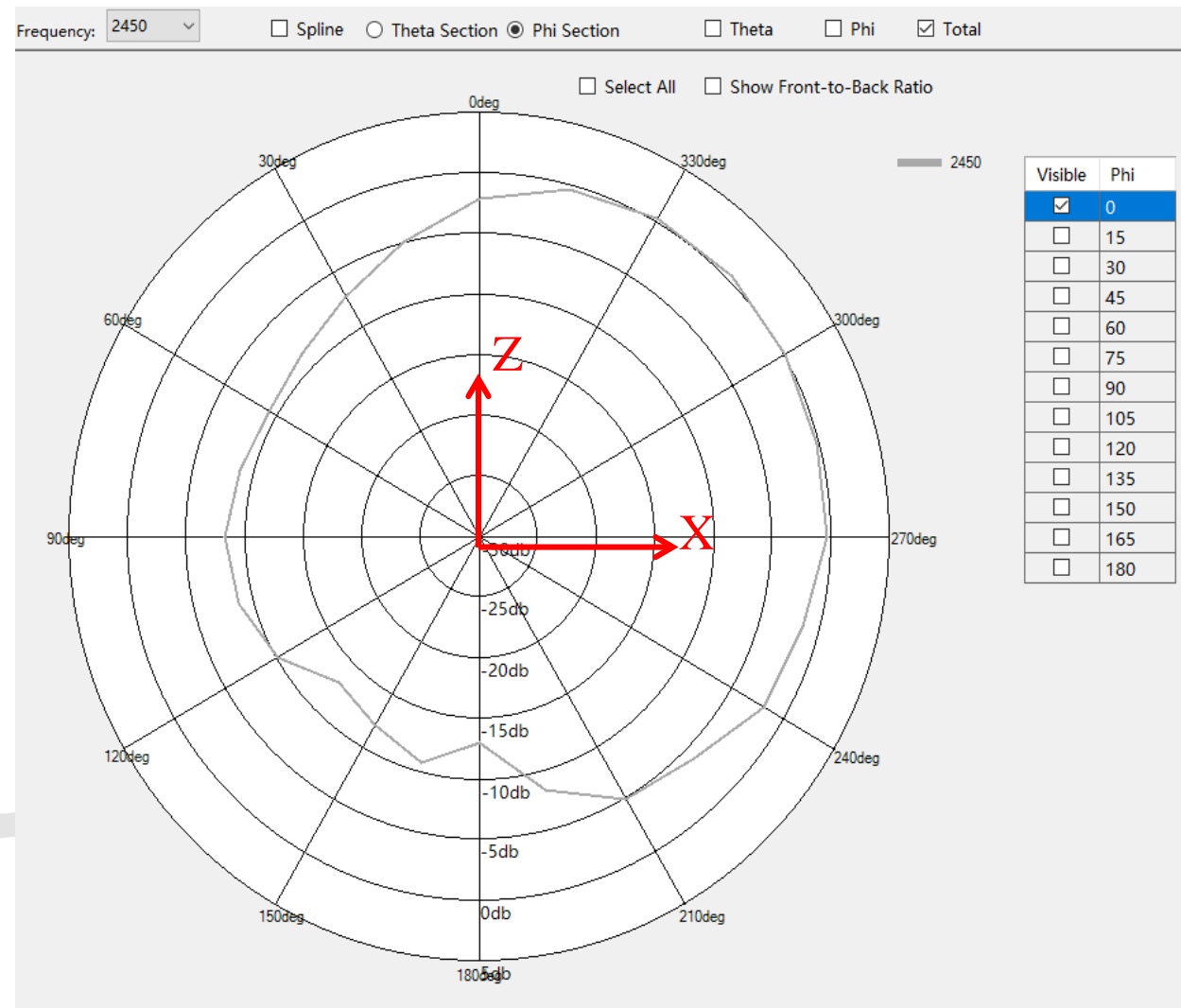
# BLE Antenna \_2D Radiation Pattern



2400MHz XZ plot

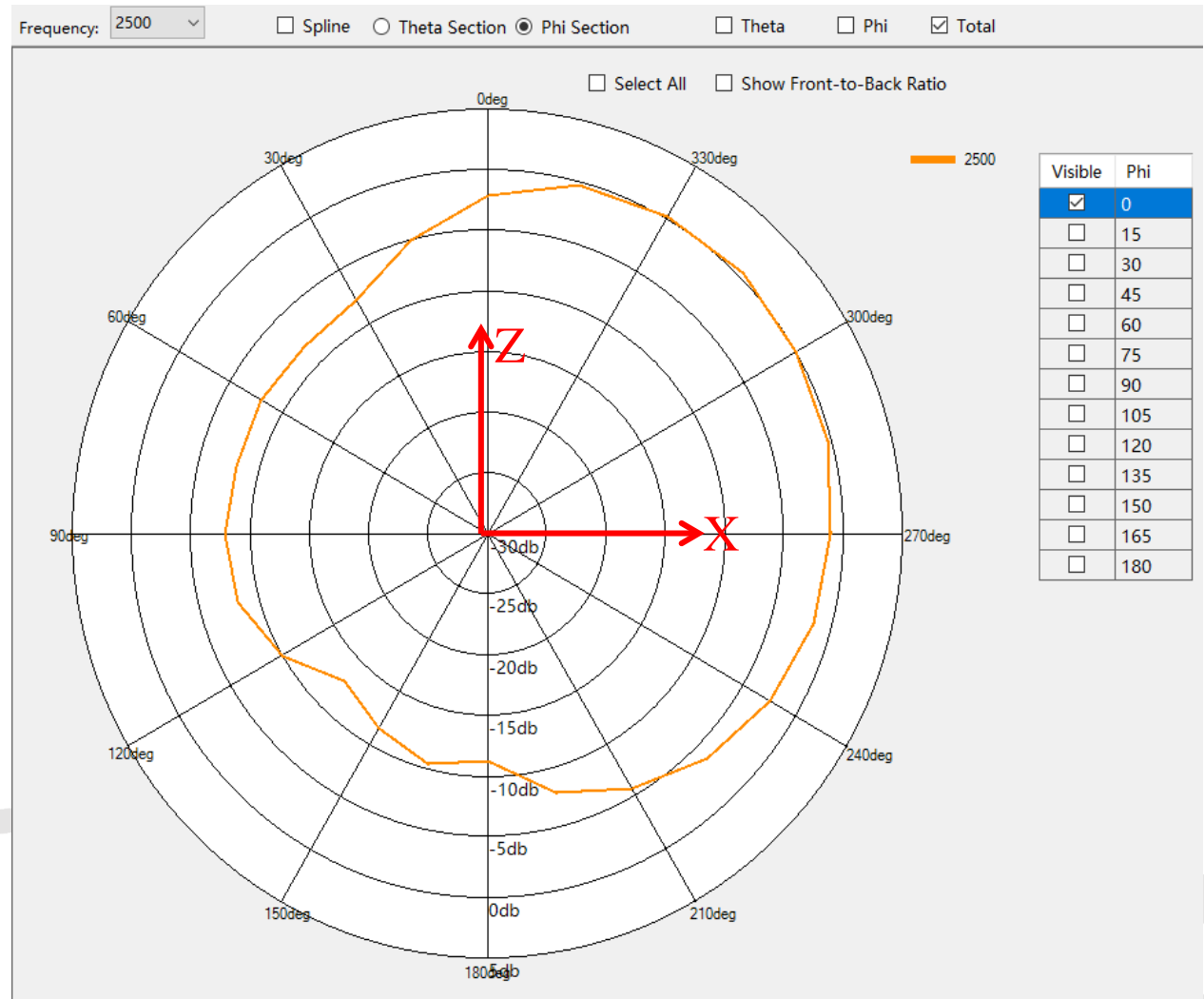


# BLE Antenna \_2D Radiation Pattern



2450MHz XZ plot

# BLE Antenna \_2D Radiation Pattern



2500MHz XZ plot



Thanks !

