

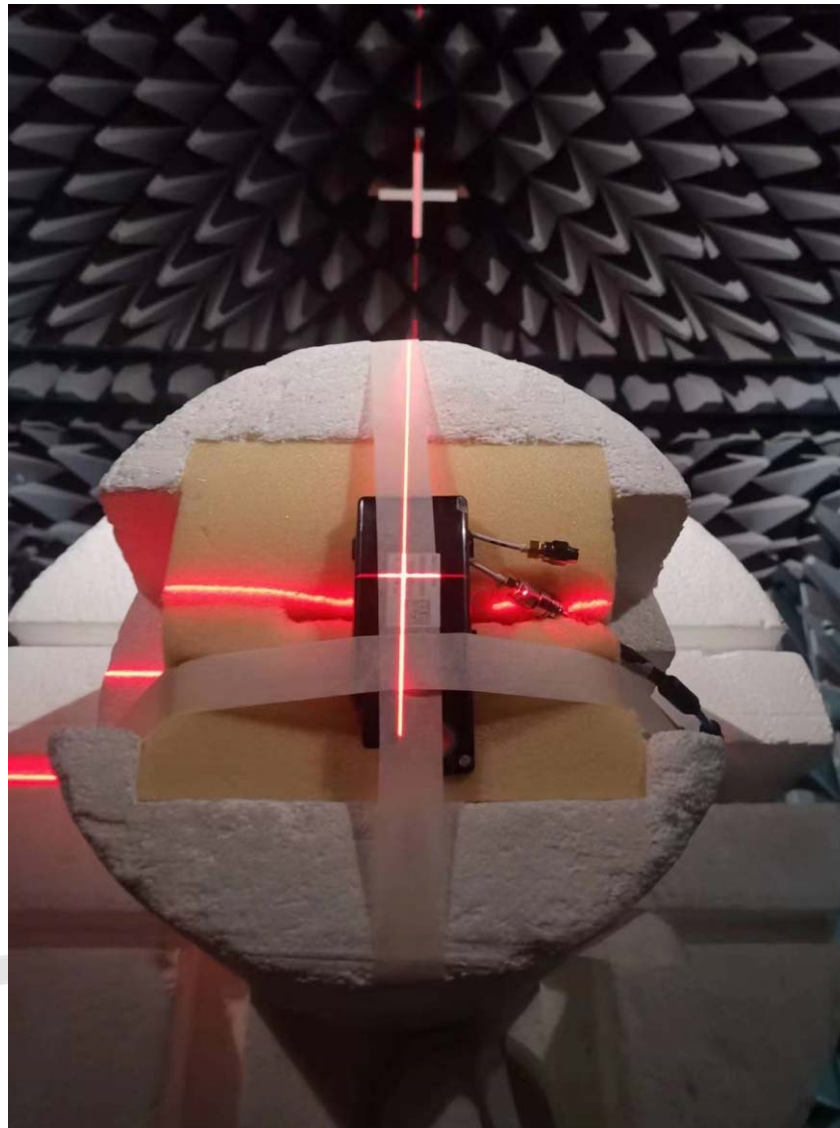


1815669 Test Report





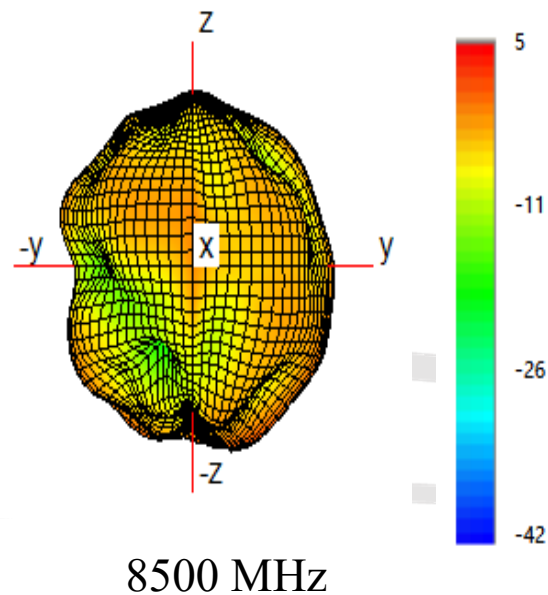
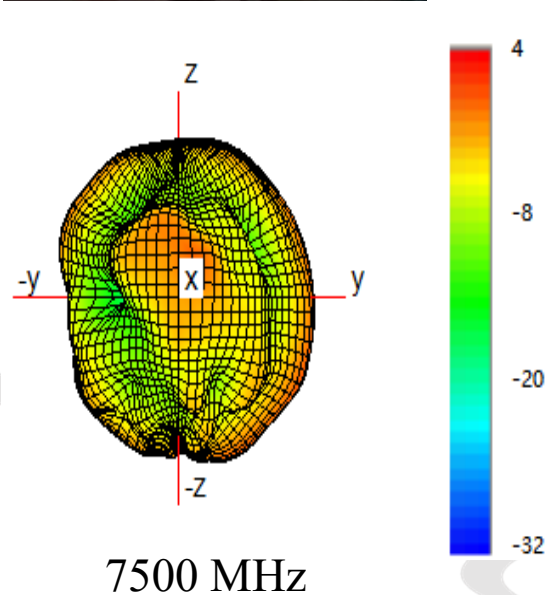
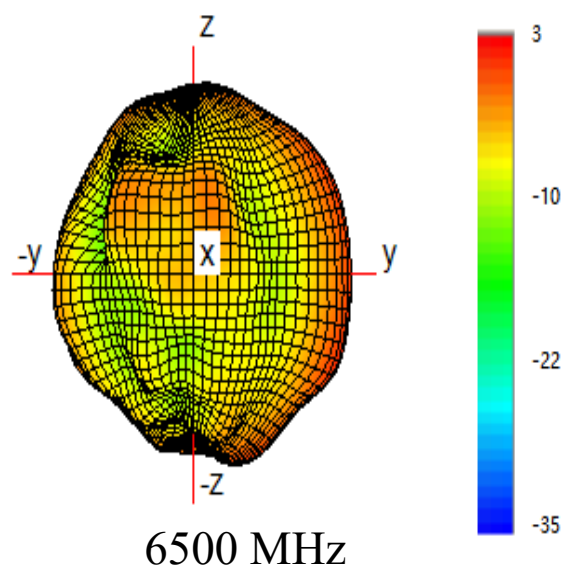
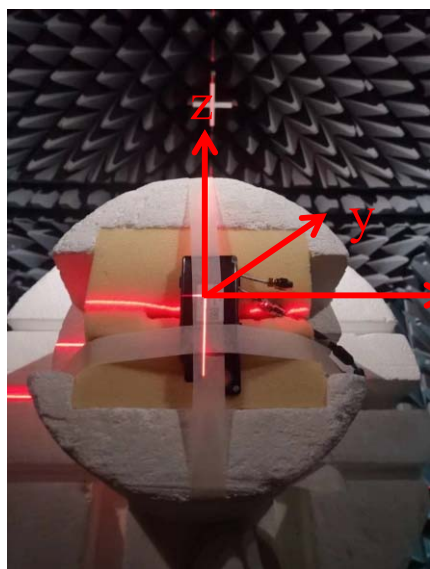
Test setup



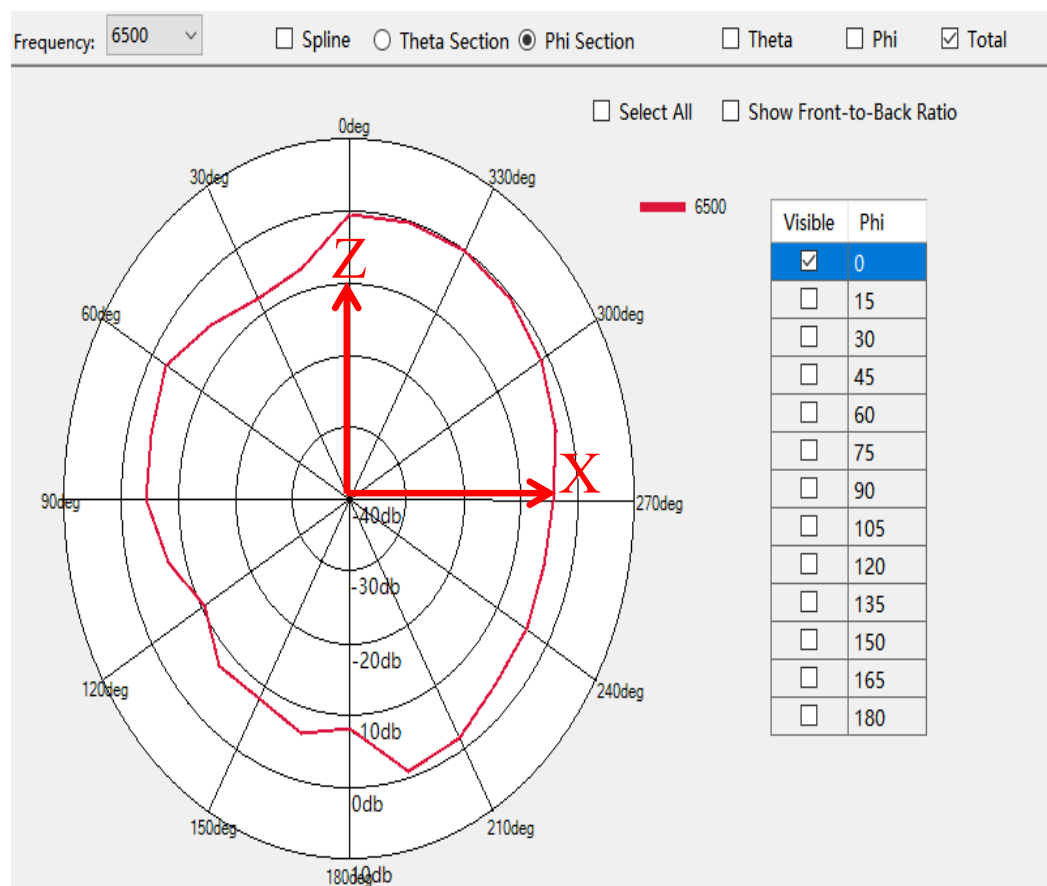
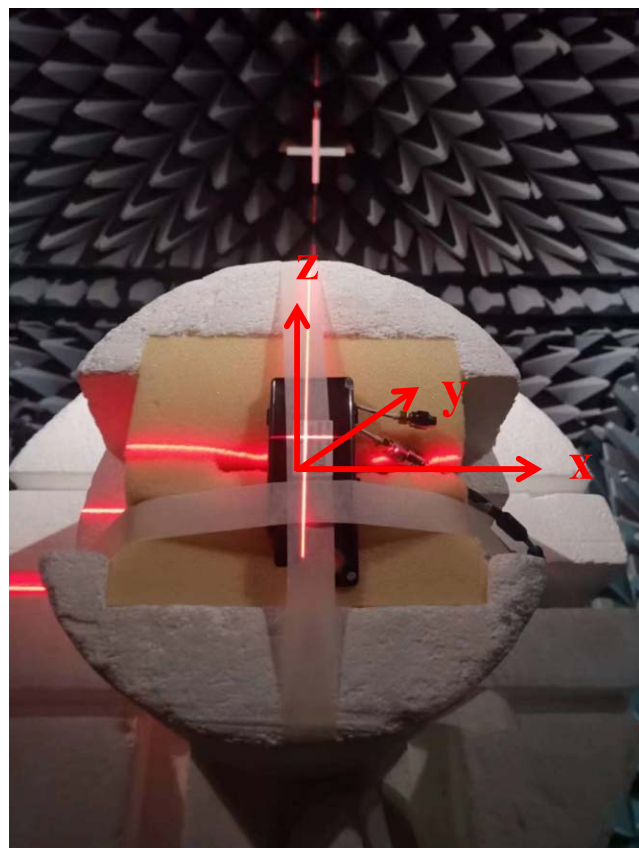
Efficiency & Gain- UWB antenna

Freq_MHz	Gain_dBi	Efficiency_dB	Efficiency_Pcent	Freq_MHz	Gain_dBi	Efficiency_dB	Efficiency_Pcent
6000	2.03246	-2.44064	57.00809	7250	3.005396	-1.63121	68.68765
6050	2.231998	-2.00049	63.08863	7300	3.294272	-1.56666	69.71622
6100	2.358961	-1.92412	64.20788	7350	3.363676	-1.59092	69.32787
6150	2.495646	-1.79385	66.16302	7400	3.589	-1.49896	70.81149
6200	2.970684	-1.5267	70.36061	7450	3.704571	-1.54728	70.02797
6250	2.661366	-1.75609	66.74074	7500	3.624347	-1.6129	68.97787
6300	2.814354	-1.7499	66.836	7550	3.648839	-1.62043	68.85838
6350	2.618201	-1.86371	65.10713	7600	3.704503	-1.62463	68.79179
6400	2.686922	-1.88881	64.73194	7650	3.999661	-1.52882	70.32626
6450	2.629353	-1.97478	63.46317	7700	4.306105	-1.2931	74.24893
6500	2.463243	-2.16127	60.79569	7750	4.296277	-1.22783	75.3732
6550	2.485093	-2.06915	62.09902	7800	4.362884	-1.2366	75.22116
6600	2.22974	-2.19583	60.31385	7850	4.451008	-1.15753	76.60324
6650	2.393532	-2.07597	62.00156	7900	4.424831	-1.29114	74.28235
6700	2.509304	-2.05568	62.29196	7950	4.416421	-1.38352	72.71896
6750	2.360999	-2.26472	59.36472	8000	4.270018	-1.56292	69.77633
6800	2.597468	-2.14454	61.03041	8050	3.869378	-1.97496	63.46056
6850	2.450098	-2.14261	61.05755	8100	3.898508	-2.10379	61.6057
6900	2.34975	-2.33683	58.3871	8150	4.112336	-2.0586	62.25004
6950	2.277047	-2.64642	54.36982	8200	4.036149	-2.05462	62.30721
7000	1.913557	-2.58812	55.10458	8250	3.803183	-2.10927	61.52797
7050	1.889339	-2.51985	55.97775	8300	3.359477	-2.31531	58.67714
7100	1.841908	-2.3594	58.08448	8350	3.432538	-2.25129	59.54855
7150	2.191269	-2.11062	61.50888	8400	3.882499	-2.06281	62.18981
7200	2.625984	-1.93053	64.11307	8450	4.007099	-2.06062	62.22112
				8500	4.018097	-2.12892	61.2502

UWB Antenna _3D Radiation Pattern

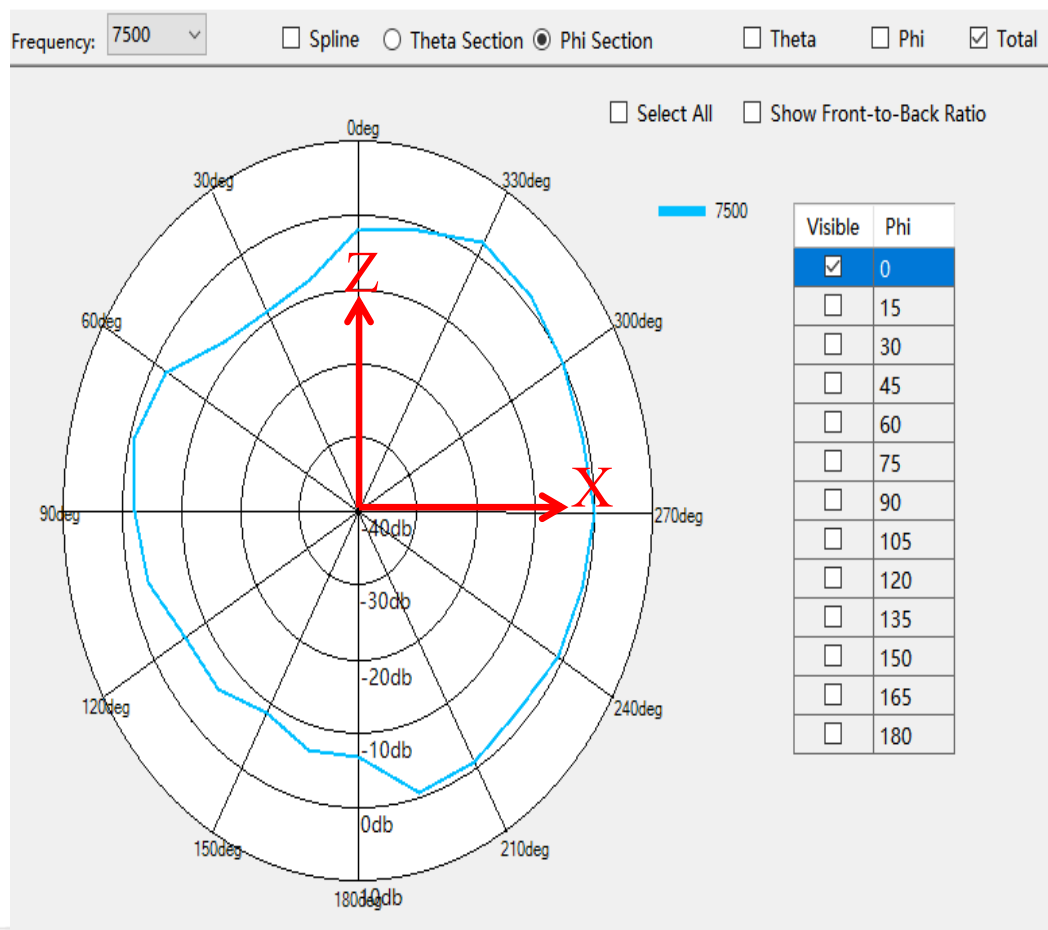
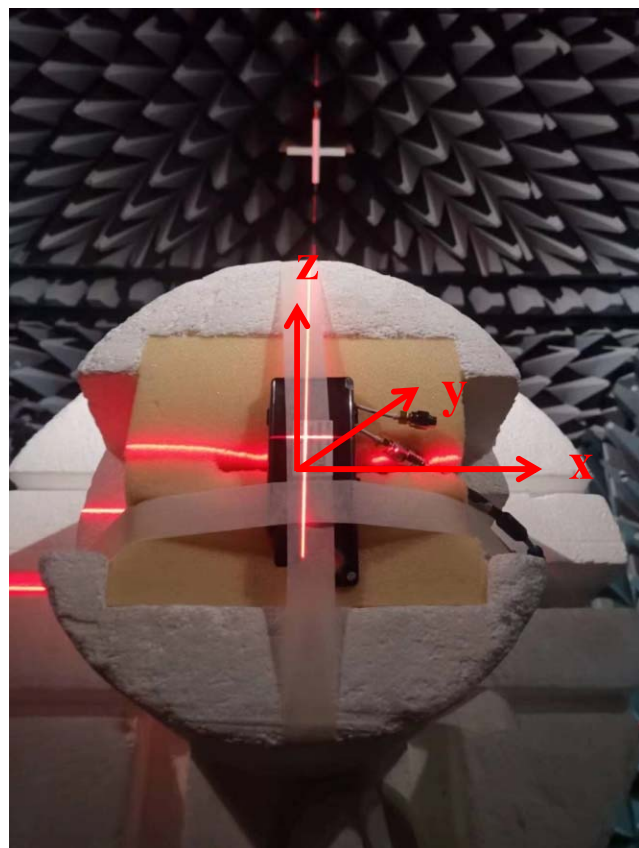


UWB Antenna _2D Radiation Pattern



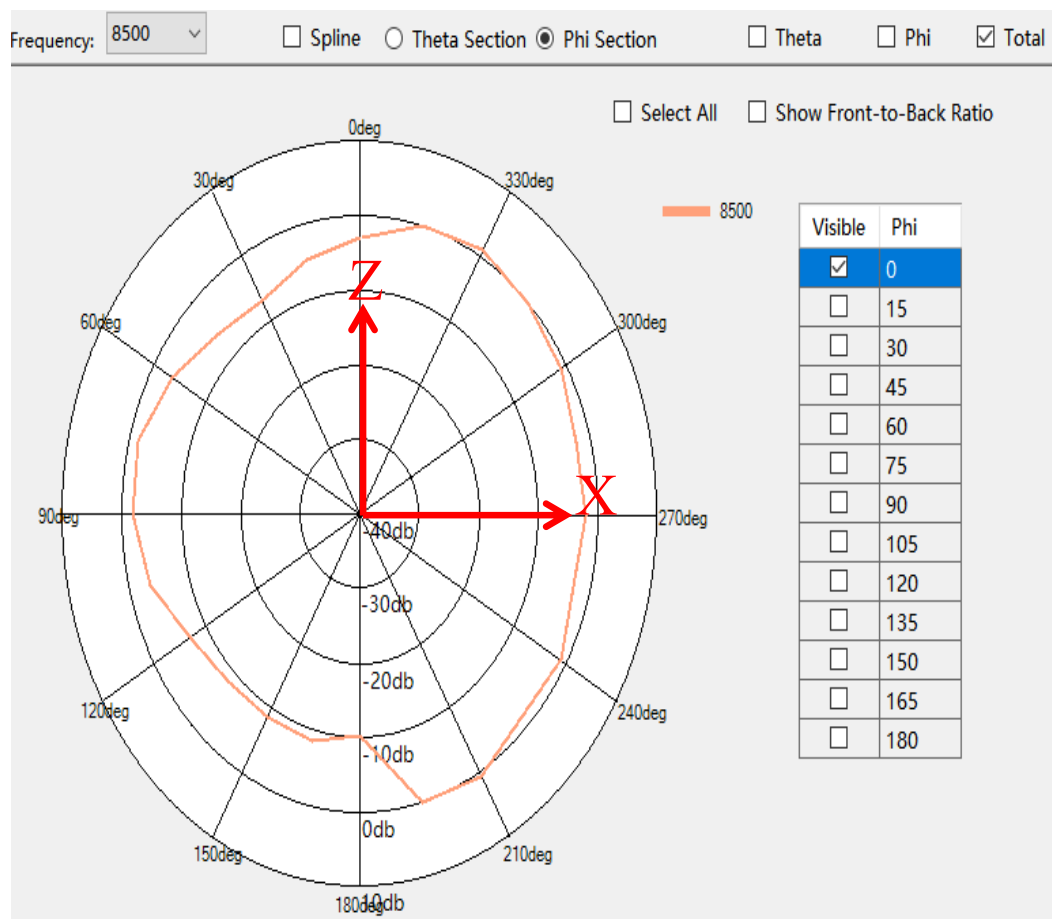
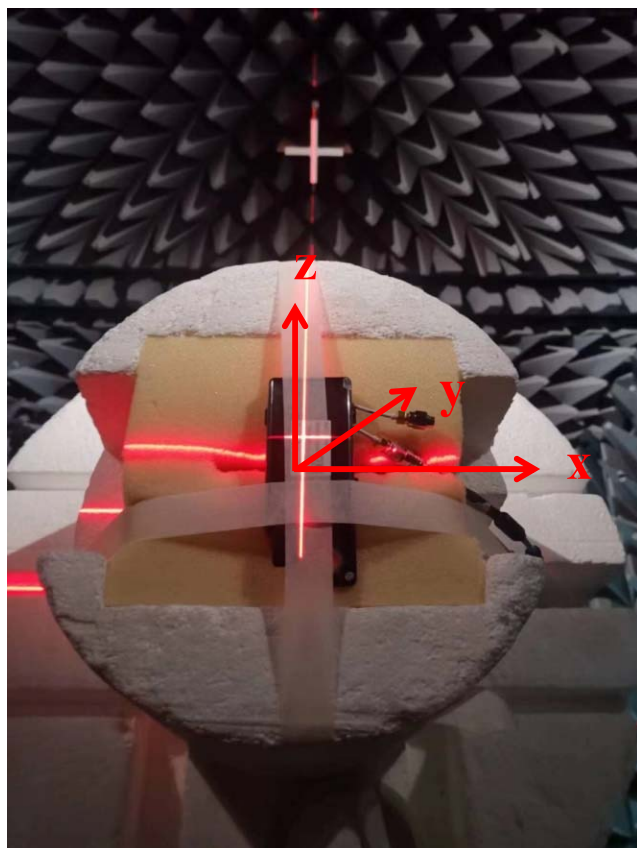
XZ plot_6500 MHz

UWB Antenna _2D Radiation Pattern



XZ plot_7500 MHz

UWB Antenna _2D Radiation Pattern

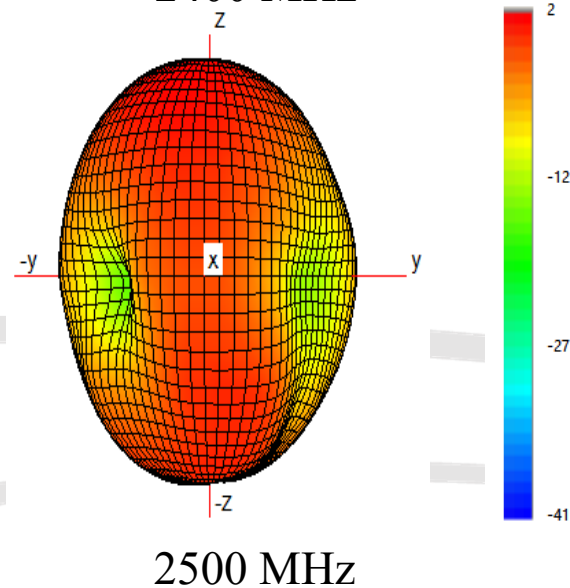
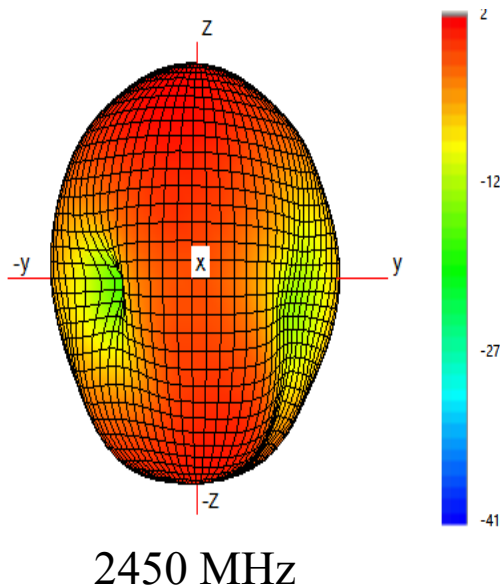
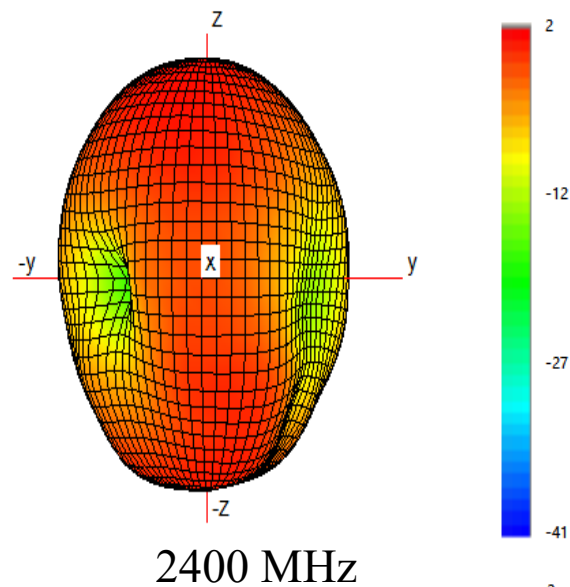
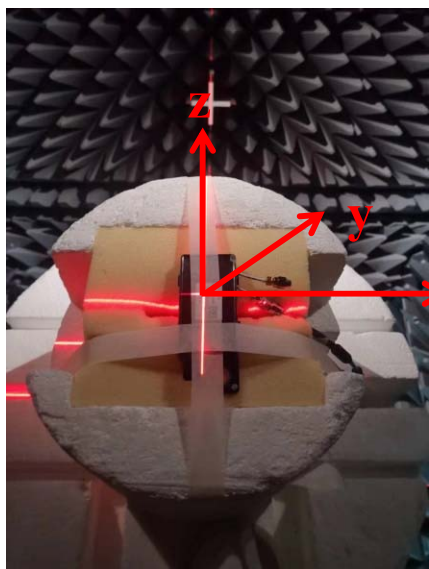


XZ plot_7500 MHz

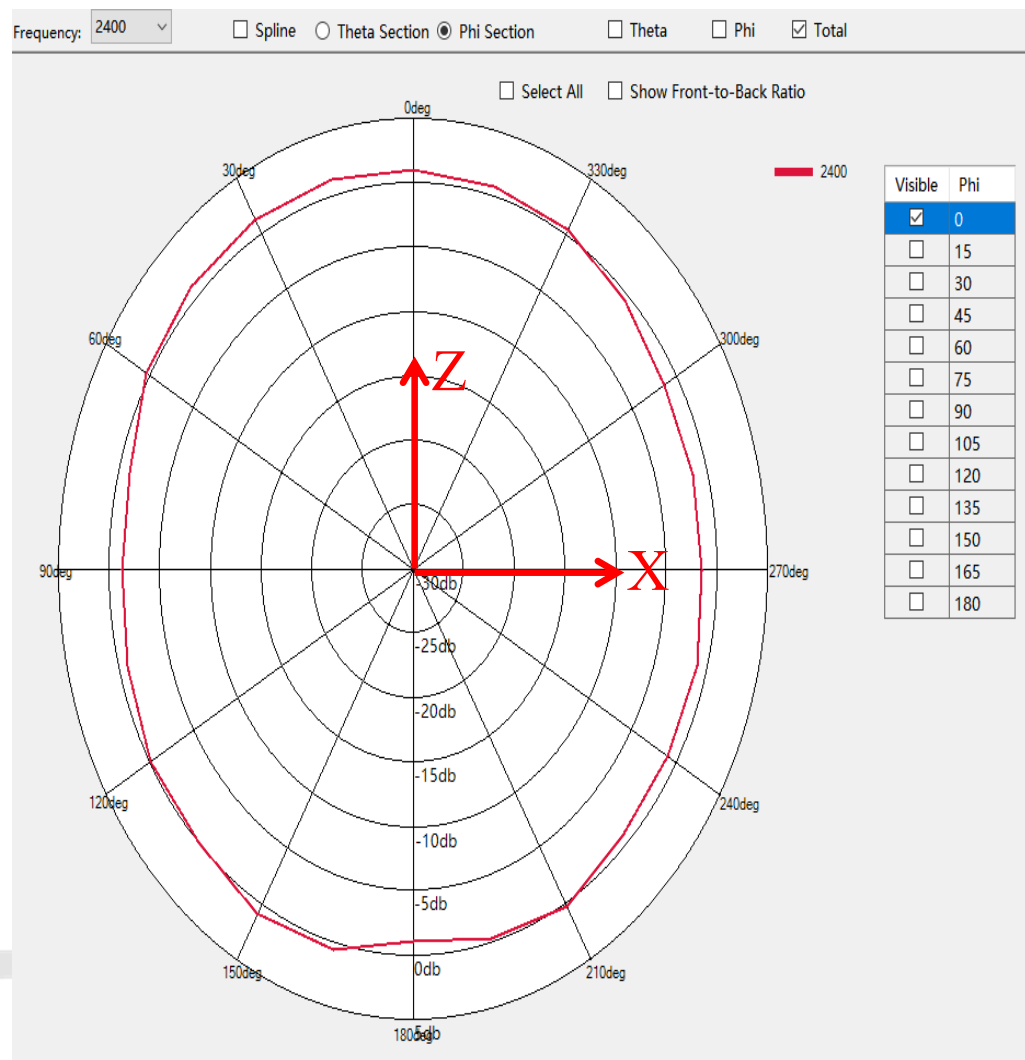
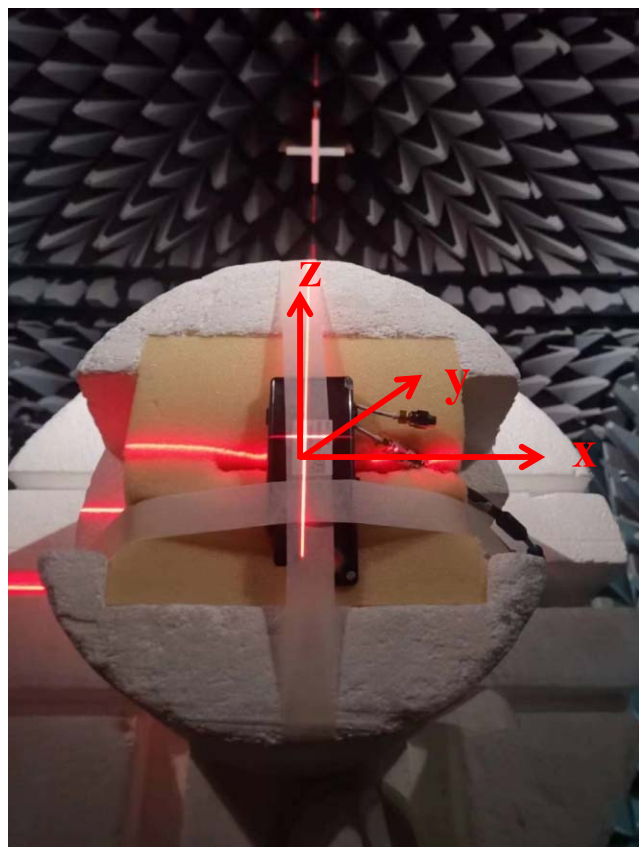
Efficiency & Gain- BLE antenna

Freq_MHz	Gain_dBi	Efficiency_dB	Efficiency_Pcent
2300	0.598679	-2.99317	50.19757
2310	0.711269	-2.9097	51.17175
2320	0.943761	-2.76014	52.96465
2330	1.215529	-2.56782	55.36277
2340	1.322833	-2.41168	57.38941
2350	1.530645	-2.2123	60.08553
2360	1.579858	-2.10092	61.64643
2370	1.58045	-2.02726	62.70092
2380	1.607235	-1.94757	63.86209
2390	1.60876	-1.90652	64.46854
2400	1.607727	-1.89681	64.61285
2410	1.619182	-1.87978	64.86666
2420	1.615503	-1.89541	64.6337
2430	1.646178	-1.8932	64.66662
2440	1.760742	-1.87935	64.87318
2450	1.901012	-1.79316	66.17349
2460	1.989455	-1.74804	66.86454
2470	2.058754	-1.73365	67.08644
2480	2.034751	-1.76496	66.6046
2490	1.965984	-1.82822	65.64148
2500	1.899243	-1.93218	64.08874
2510	1.883968	-2.01621	62.8606
2520	1.90257	-2.06193	62.2024
2530	1.753771	-2.25766	59.46127
2540	1.606136	-2.45783	56.78276
2550	1.417483	-2.62419	54.64885
2560	1.31865	-2.68104	53.9382
2570	1.186147	-2.79849	52.49904
2580	1.022858	-2.84479	51.94232
2590	0.902278	-2.93839	50.83481
2600	0.678135	-3.14512	48.47164

BLE Antenna _3D Radiation Pattern

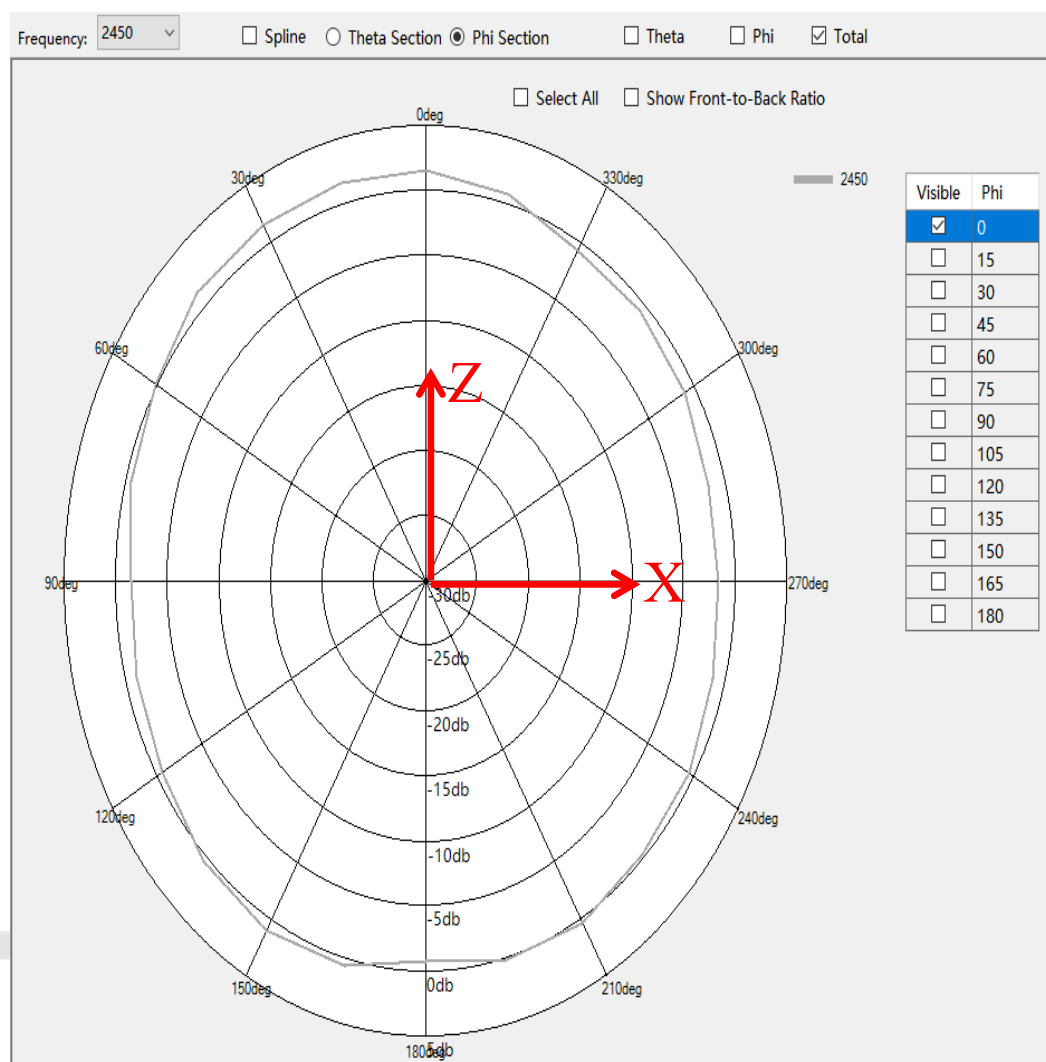
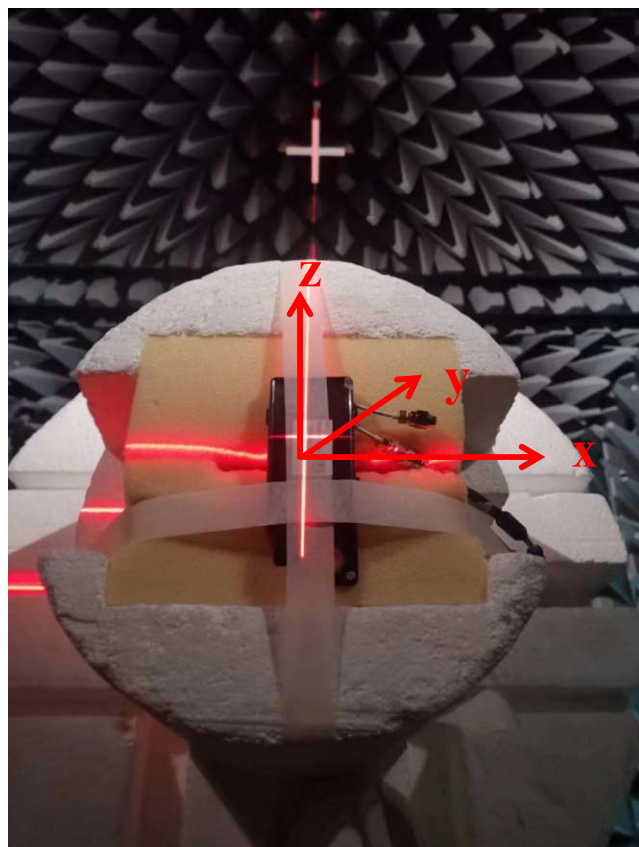


BLE Antenna _2D Radiation Pattern



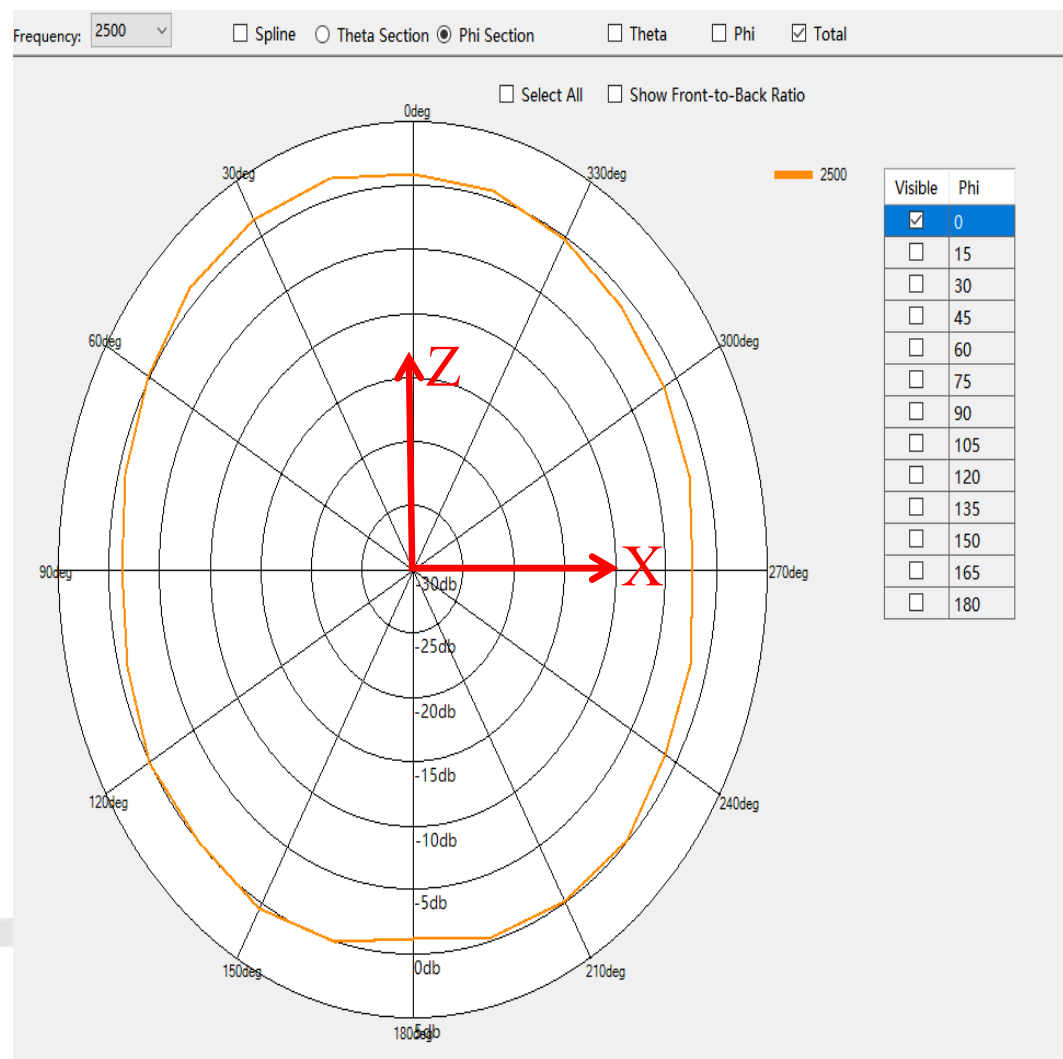
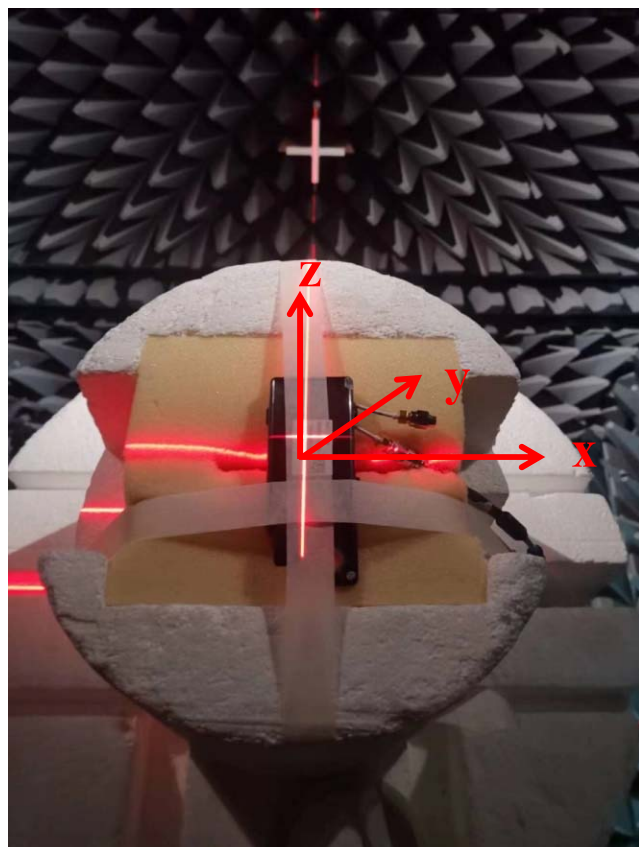
XZ plot_2400 MHz

BLE Antenna _2D Radiation Pattern



XZ plot_2450 MHz

BLE Antenna _2D Radiation Pattern



XZ plot_2500 MHz



Thanks !

