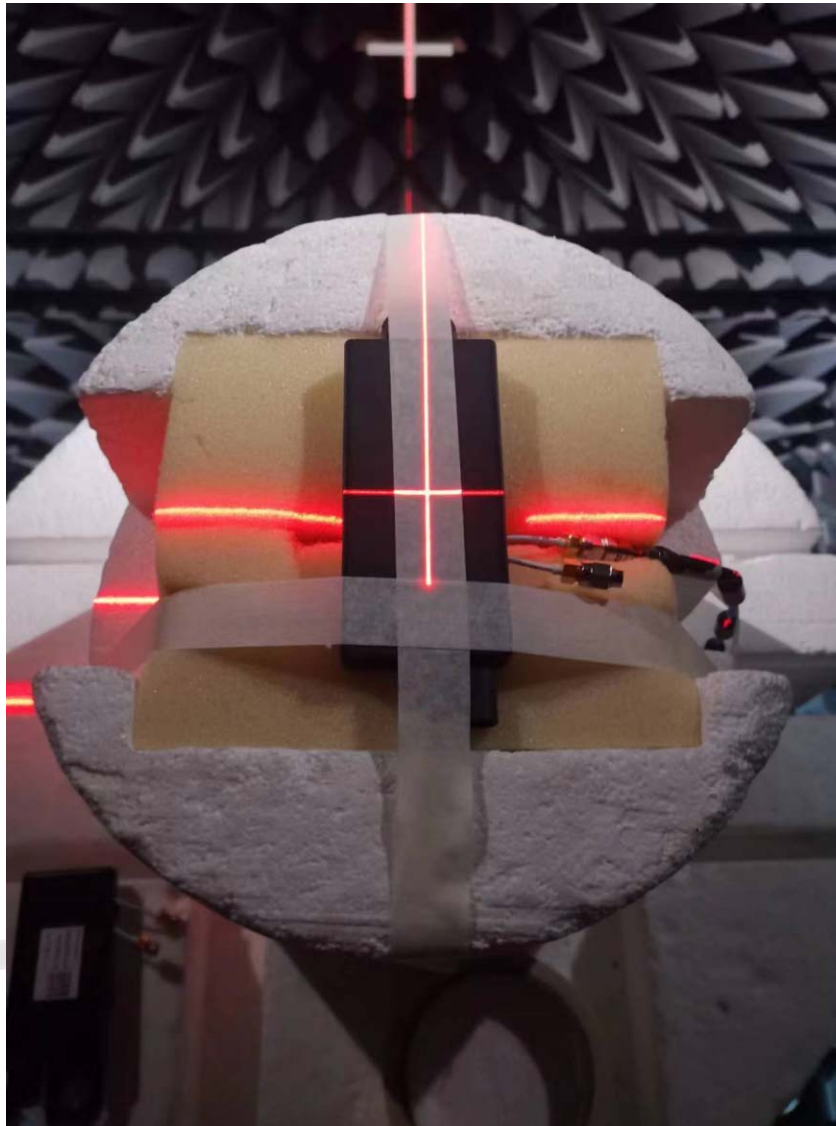# 1817073 Test Report

Test setup
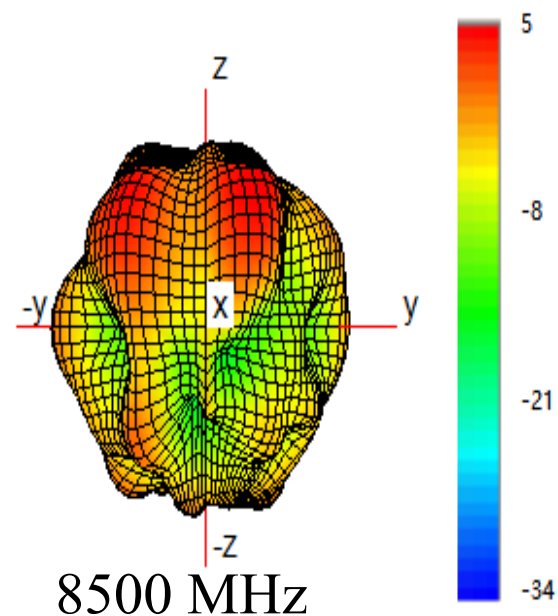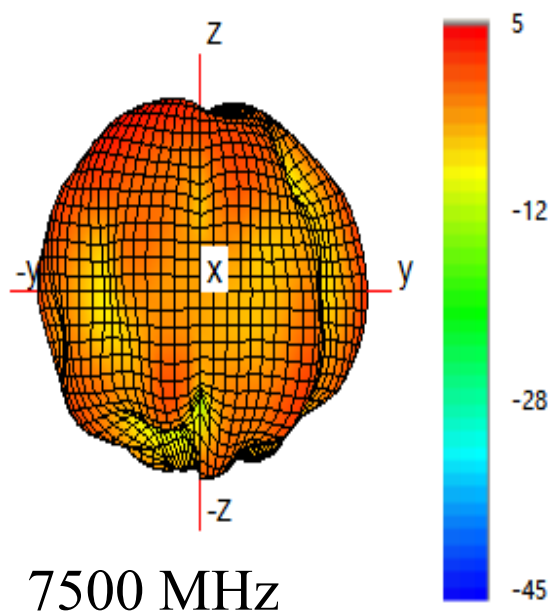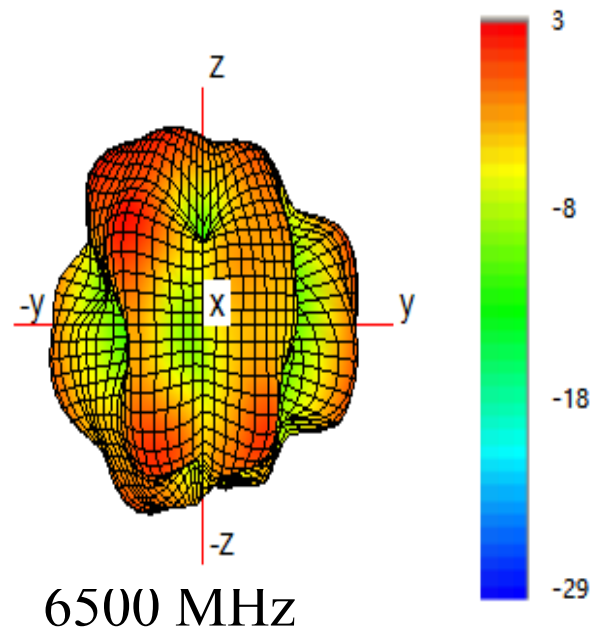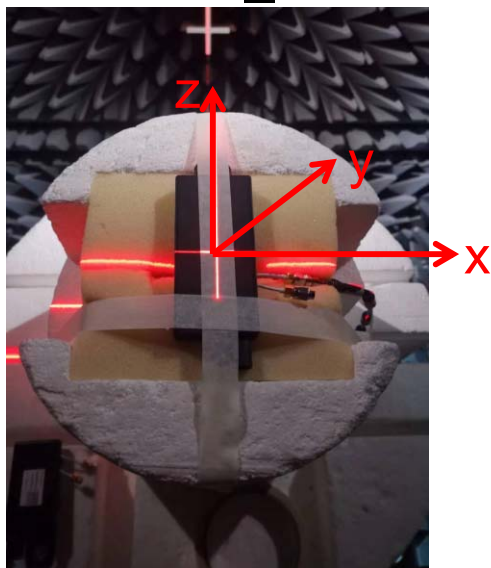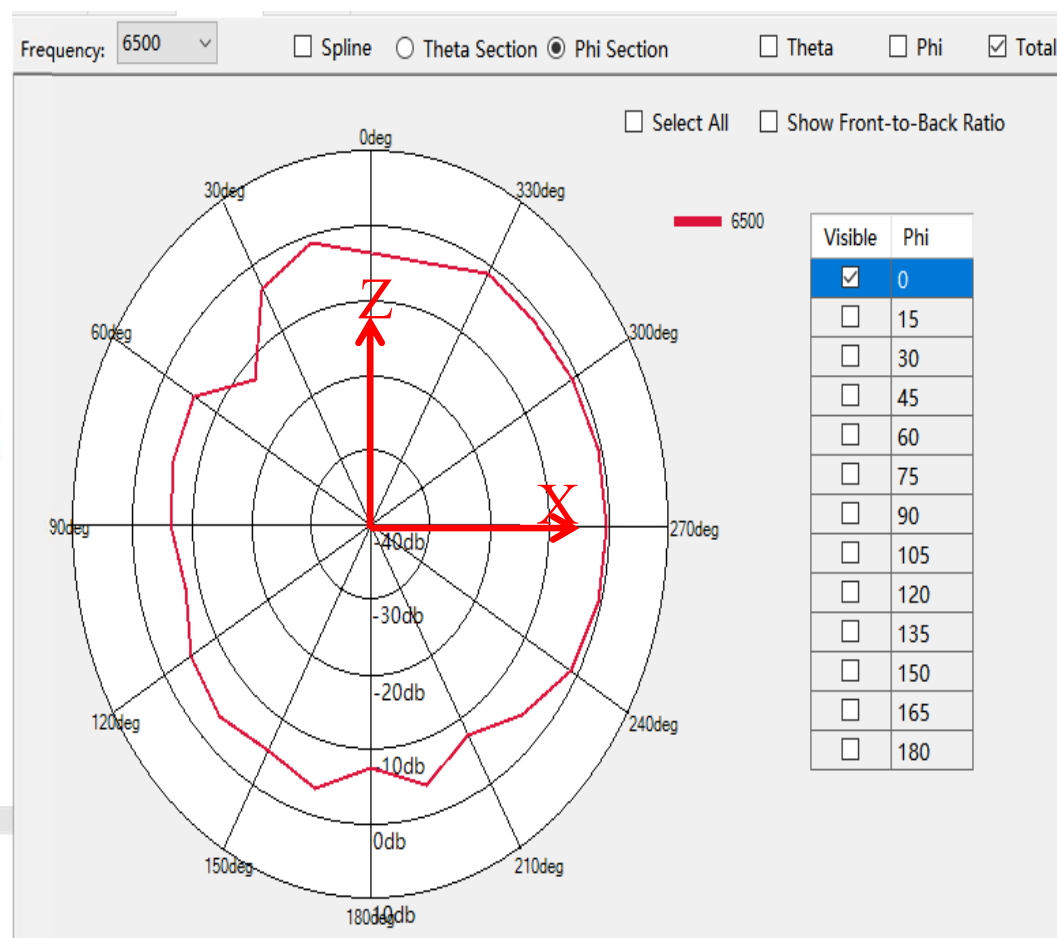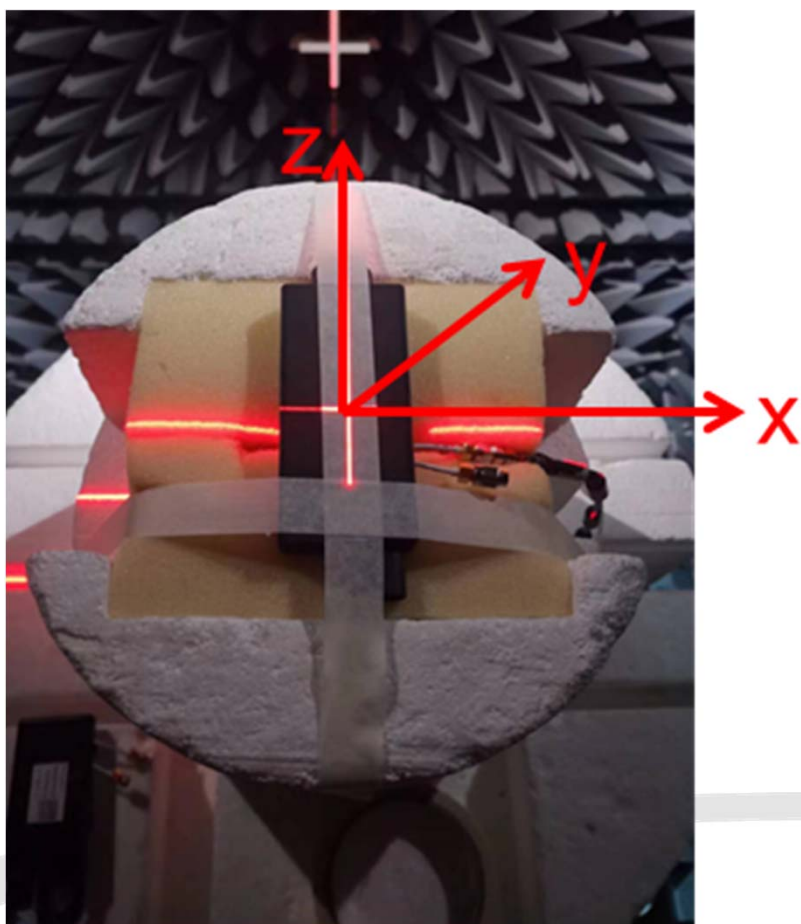
Efficiency & Gain- UWB antenna

Freq_MHz	Gain_dBi	Efficiency_dB	Efficiency_Pcent	Freq_MHz	Gain_dBi	Efficiency_dB	Efficiency_Pcent
6000	1.946138	-2.88521	51.46104	7250	4.788403	-1.20716	75.73275
6050	2.626863	-2.43894	57.0304	7300	5.052191	-1.17076	76.37029
6100	2.843802	-2.35593	58.13088	7350	4.865992	-1.19586	75.93008
6150	2.921914	-2.30397	58.8305	7400	4.836697	-1.22232	75.46883
6200	2.746343	-2.37134	57.92496	7450	4.511565	-1.26223	74.77846
6250	2.698151	-2.5167	56.01826	7500	4.003654	-1.37619	72.84193
6300	2.924412	-2.44132	56.99909	7550	3.721895	-1.45382	71.55144
6350	2.581892	-2.71876	53.47168	7600	4.046561	-1.42481	72.03088
6400	2.481127	-2.7289	53.34702	7650	4.453278	-1.43839	71.8061
6450	2.70675	-2.61108	54.81409	7700	4.87983	-1.3498	73.28589
6500	2.779645	-2.61365	54.78158	7750	5.419146	-1.25536	74.89694
6550	2.844414	-2.33538	58.40662	7800	5.685911	-1.30522	74.04201
6600	3.094922	-2.31942	58.62167	7850	5.570741	-1.40329	72.38875
6650	3.261437	-2.15557	60.8756	7900	5.510797	-1.54917	69.99756
6700	2.993135	-1.98931	63.25129	7950	5.762317	-1.57953	69.50989
6750	2.954086	-1.96758	63.56852	8000	5.362849	-1.88436	64.79843
6800	2.809228	-1.75832	66.70648	8050	4.79222	-2.37748	57.84313
6850	3.06915	-1.56011	69.82155	8100	4.656023	-2.4279	57.17556
6900	3.135852	-1.59282	69.29761	8150	4.614455	-2.37757	57.84199
6950	3.026624	-1.78054	66.36601	8200	4.730851	-2.17767	60.56656
7000	3.279725	-1.72252	67.2586	8250	4.646249	-2.1366	61.14212
7050	3.456801	-1.72527	67.21608	8300	4.288195	-2.42323	57.23697
7100	3.660899	-1.65615	68.29446	8350	4.466028	-2.17298	60.63198
7150	4.29471	-1.45186	71.5837	8400	4.847944	-1.86834	65.03781
7200	4.435342	-1.34054	73.44226	8450	5.122936	-1.81958	65.77213
				8500	4.771932	-1.83381	65.55697

UWB Antenna _3D Radiation Pattern
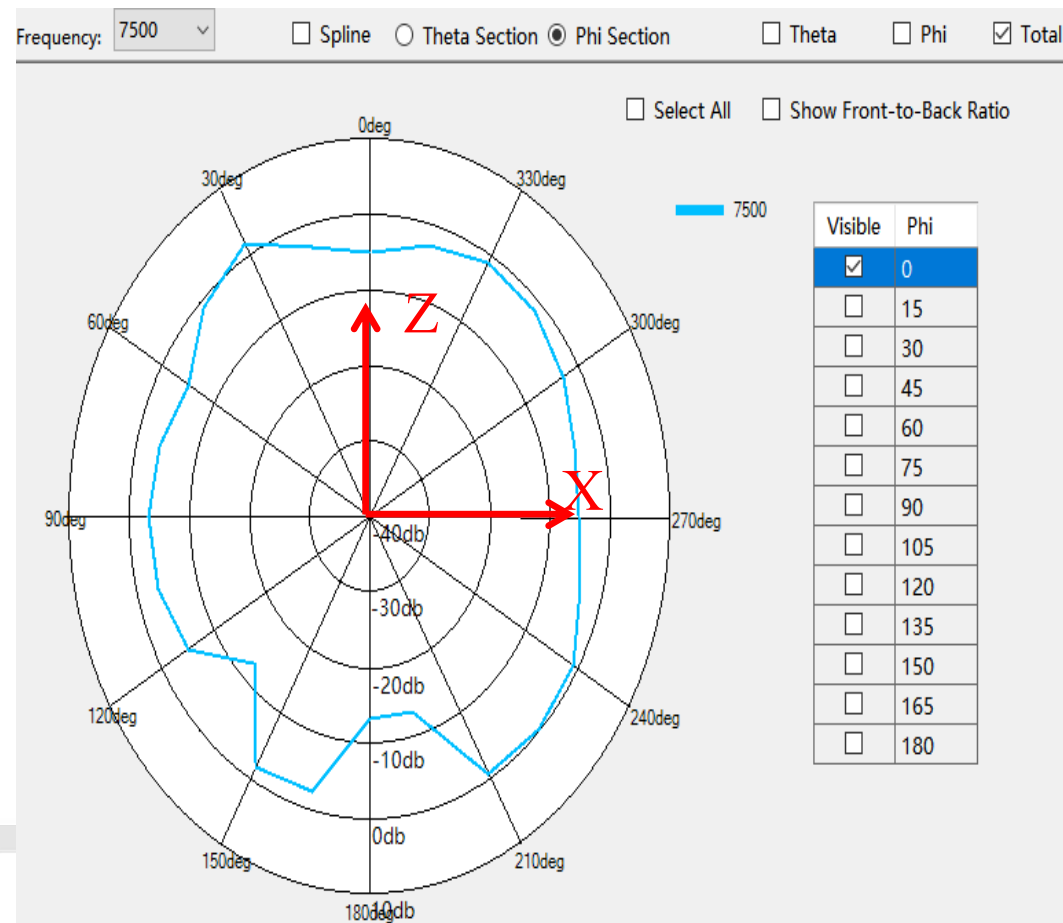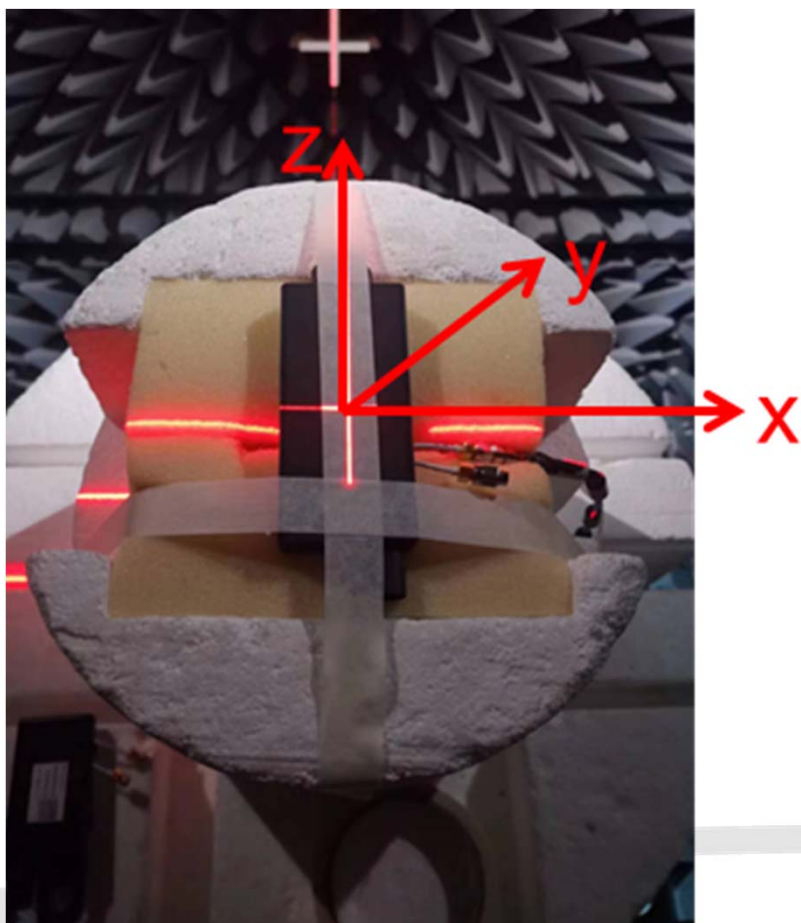

6500 MHz

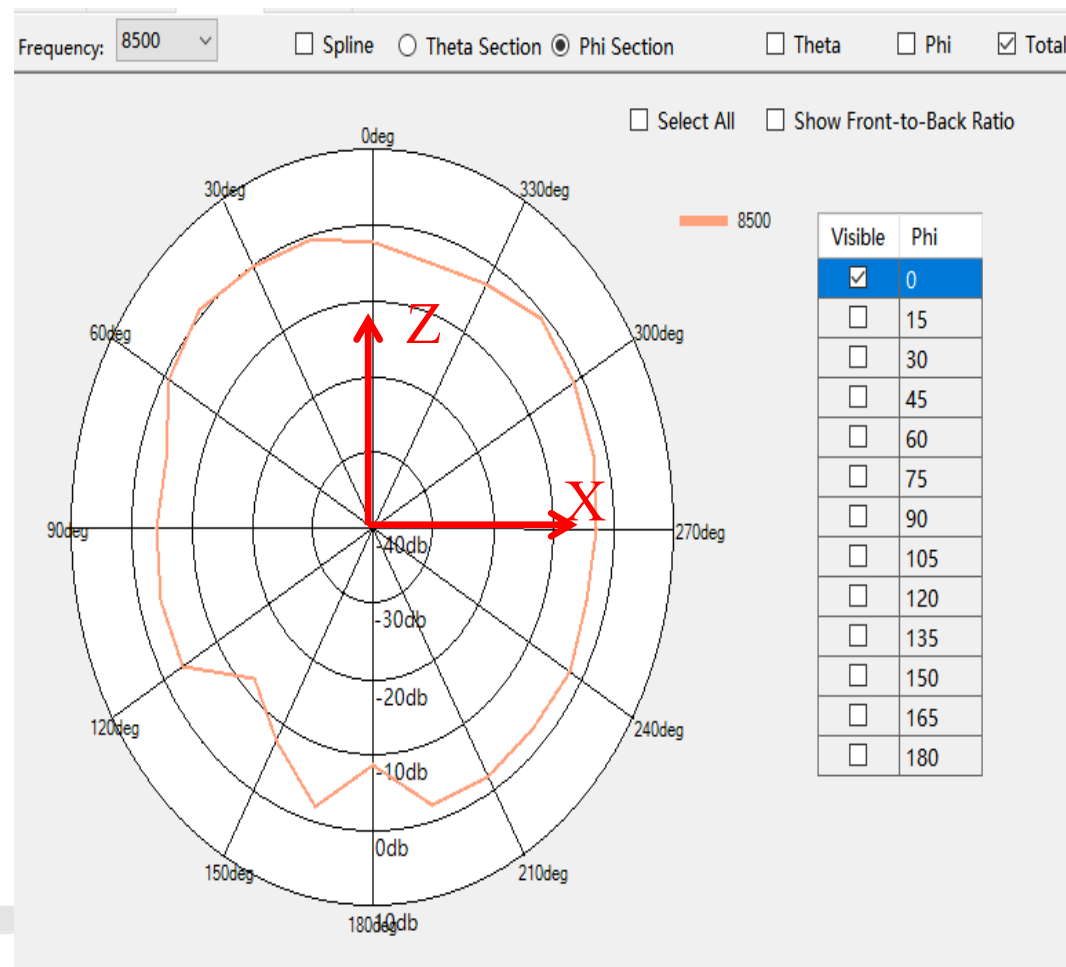7500 MHz

8500 MHz
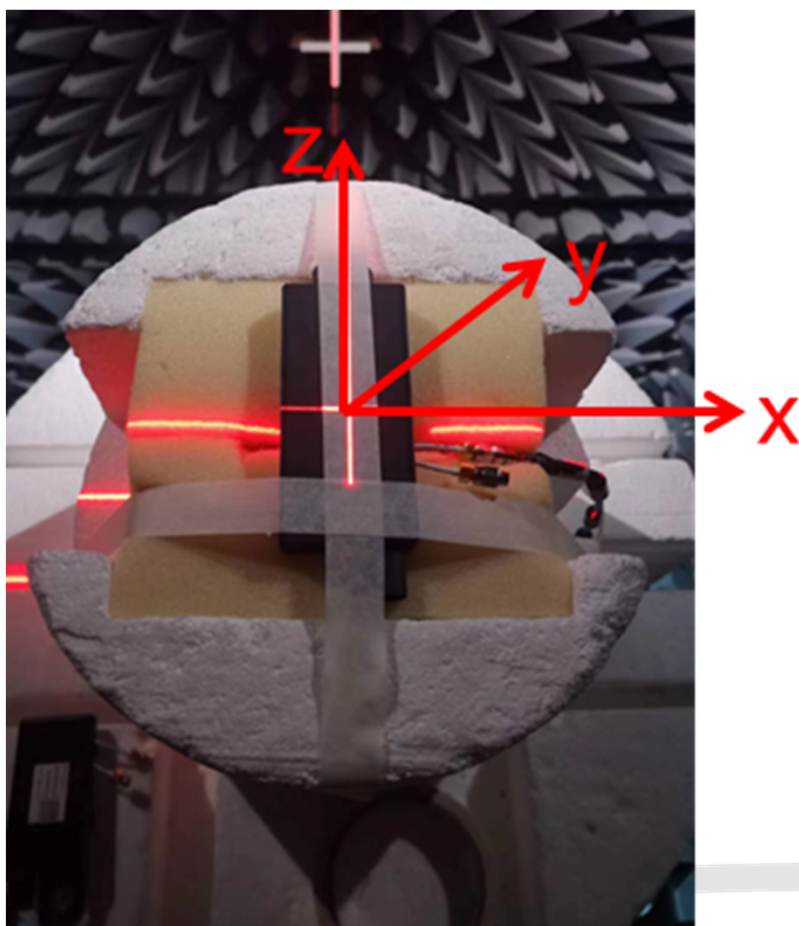
UWB Antenna _2D Radiation Pattern

XZ plot_6500 MHz

UWB Antenna _2D Radiation Pattern
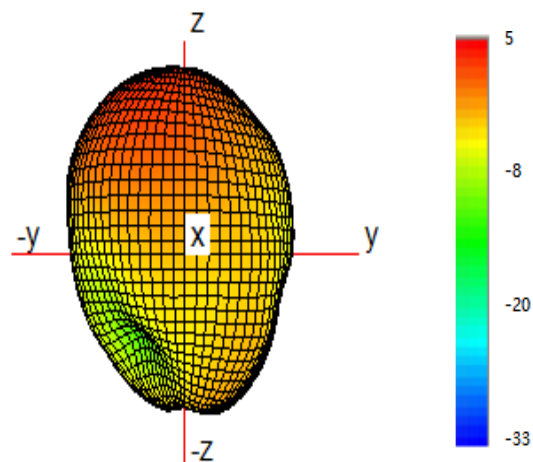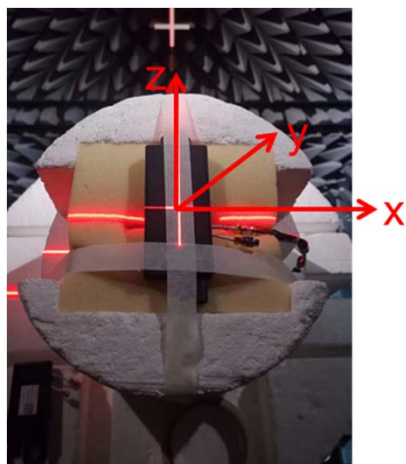

XZ plot_7500 MHz
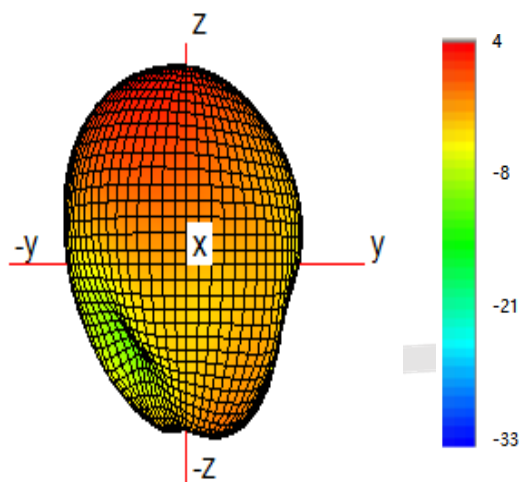
UWB Antenna _2D Radiation Pattern

XZ plot_8500 MHz

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Efficiency & Gain- BLE antenna

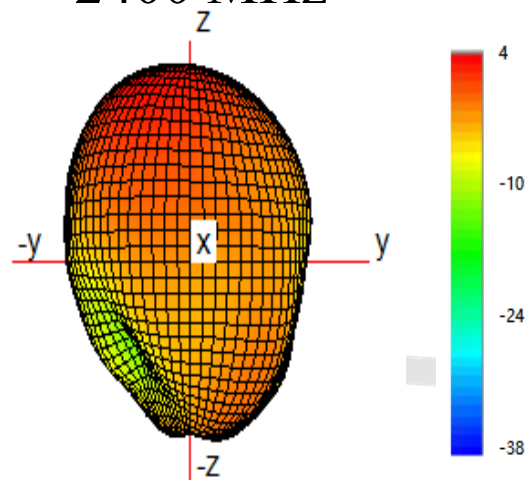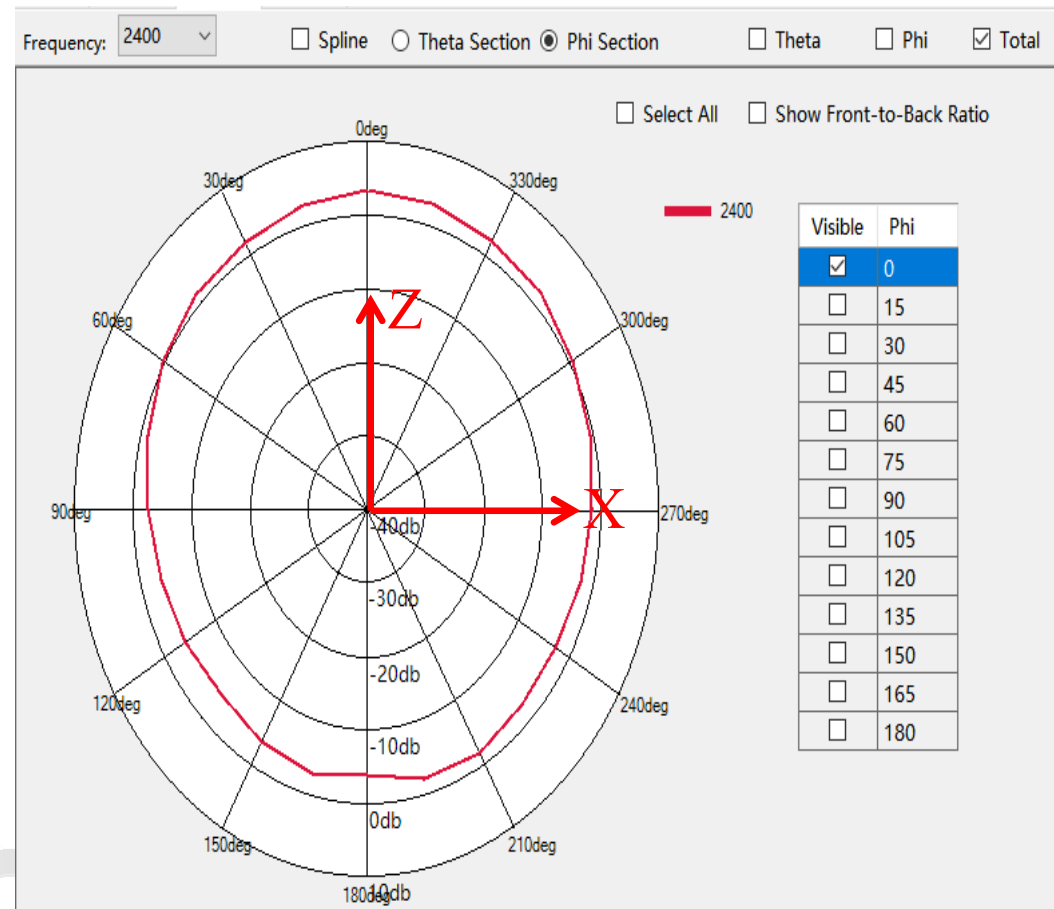| Freq_MHz	Gain_dBi	Efficiency_dB	Efficiency_Pcent
2300	3.676194	-2.07737	61.98166
2310	3.659827	-2.08783	61.83254
2320	3.883454	-1.92575	64.18373
2330	3.964259	-1.84025	65.4598
2340	4.148275	-1.74494	66.91227
2350	4.220839	-1.78105	66.35823
2360	4.234886	-1.78307	66.32739
2370	4.237438	-1.8796	64.86948
2380	4.242373	-1.8614	65.14186
2390	4.247586	-1.77805	66.40408
2400	4.160945	-1.82025	65.76193
2410	4.059654	-1.80263	66.02934
2420	3.957011	-1.86906	65.02707
2430	3.874464	-1.87654	64.9151
2440	3.859368	-1.87721	64.90507
2450	3.957266	-1.7771	66.4186
2460	4.048943	-1.73653	67.04203
2470	4.04373	-1.76687	66.57532
2480	4.049099	-1.79148	66.19908
2490	4.068665	-1.84276	65.42206
2500	3.904171	-1.9273	64.16082
2510	3.948901	-1.95968	63.6842
2520	3.883208	-1.95989	63.68122
2530	3.717526	-2.12969	61.23937
2540	3.582815	-2.31274	58.7119
2550	3.415037	-2.45744	56.78788
2560	3.393297	-2.50149	56.2149
2570	3.317969	-2.60956	54.83331
2580	3.21711	-2.64144	54.43224
2590	3.145222	-2.72873	53.34913
2600	2.896942	-2.90075	51.27727

BLE Antenna _3D Radiation Pattern

2400 MHz

2450 MHz

2500 MHz

UWB Antenna _2D Radiation Pattern
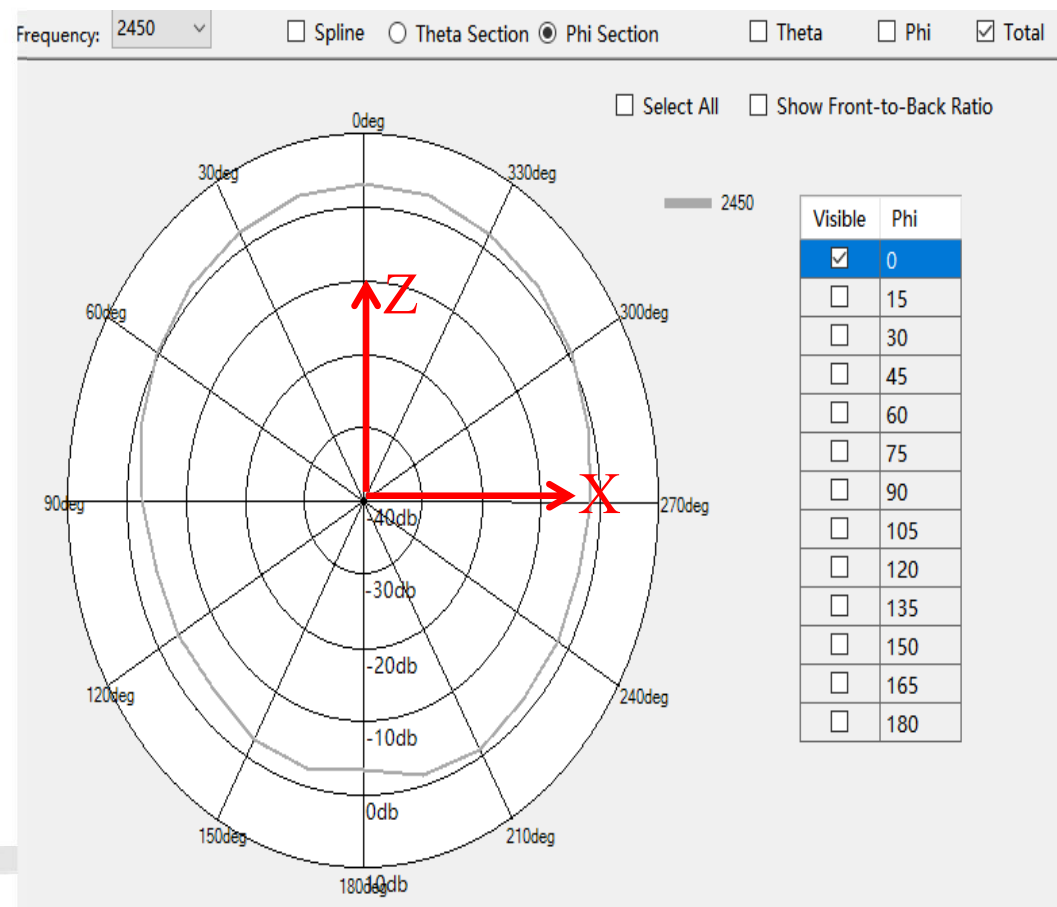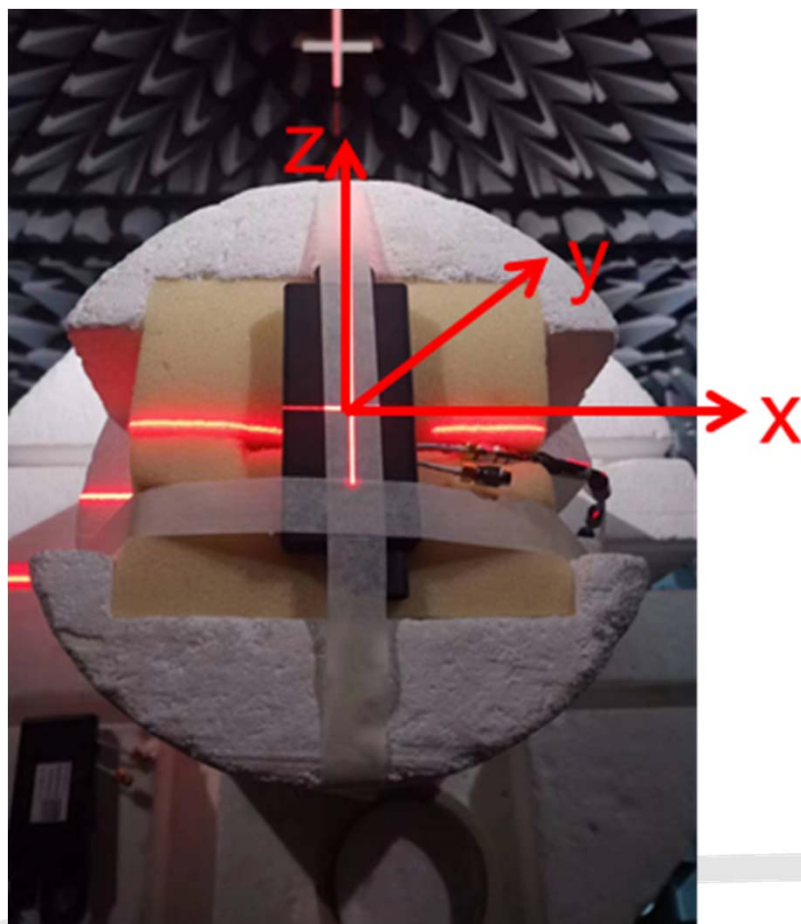

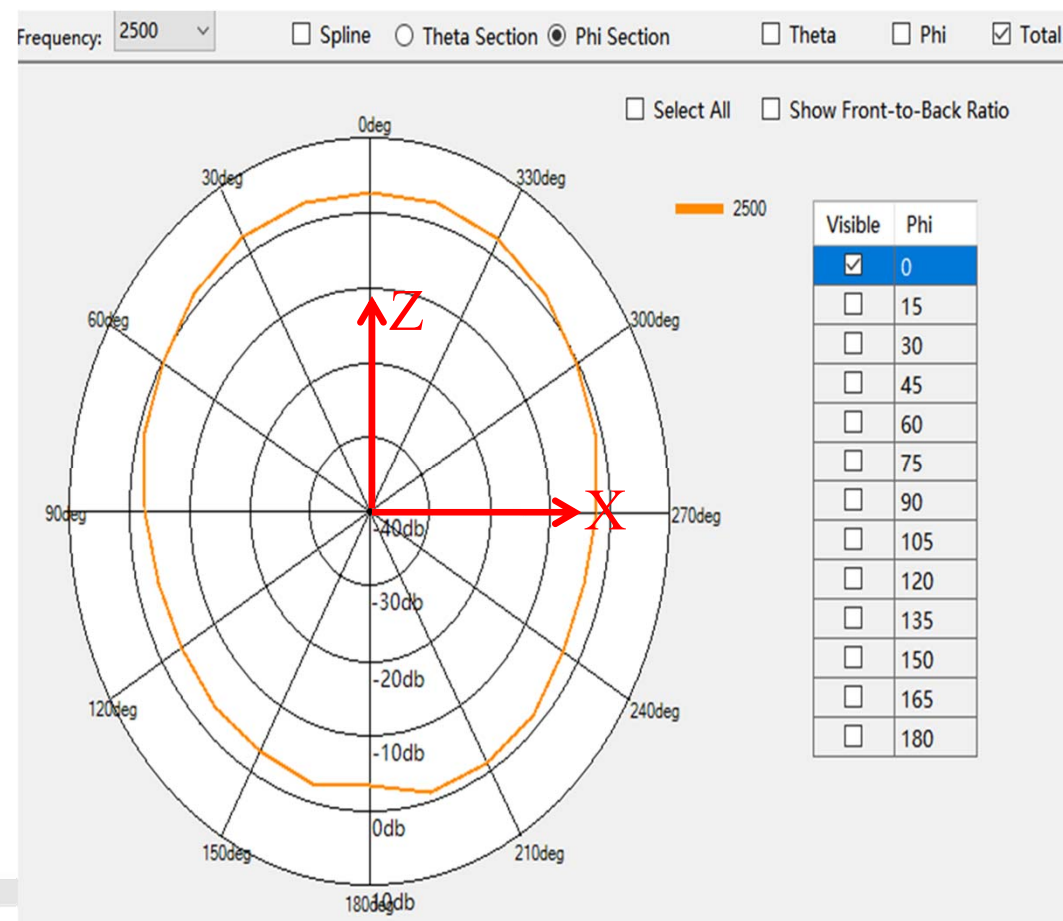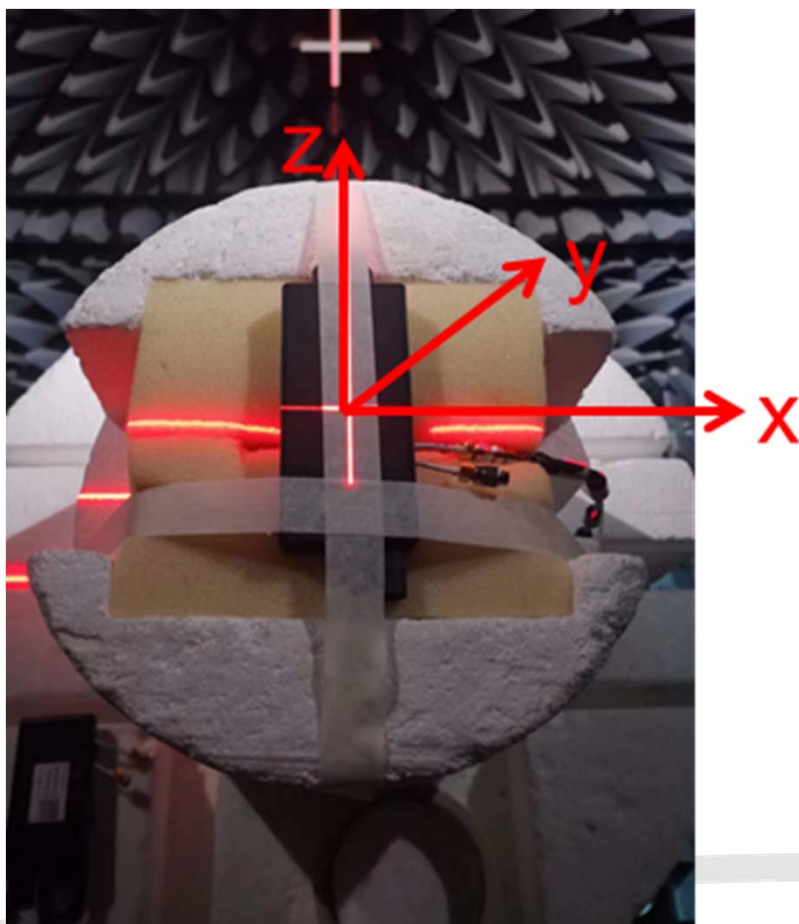
XZ plot_2400 MHz

UWB Antenna _2D Radiation Pattern

XZ plot_2450 MHz

UWB Antenna _2D Radiation Pattern

XZ plot_2500 MHz

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Thanks !

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