

Antenna Specification

Applicable Models	XY03-NB		
client			
Specifications			
	Product Content	Specification	Customer material code
Specifications	NB Antenna	FPC/white+coaxial cable/ first generation terminal 1.13*126mm	
Change Resume			
Serial number	Date	Version	Brief description of changes
1	2023-08-24	V1.0	New Projects
2			
3			

Supplier sample confirmation					
Research and Development		structure	Audit		determination
					PASS ☒ FAIL ☐
Customer sample confirmation					
Electronic	Structure	Project	Purchase	Quality	Audit
Reasons for rejection or other matters needing attention :					

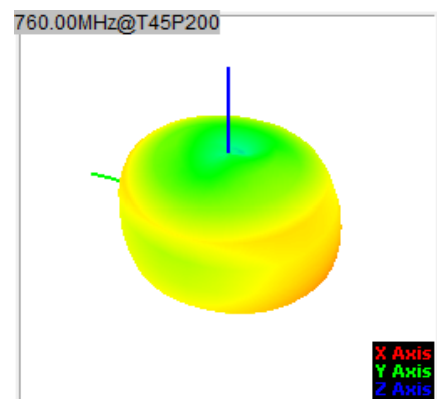
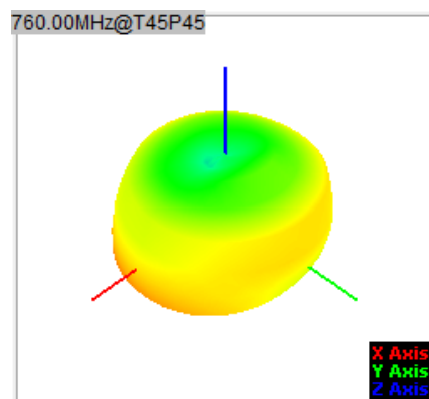
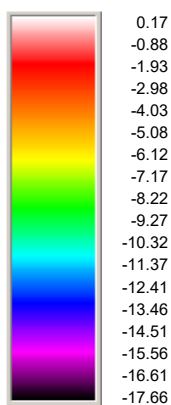
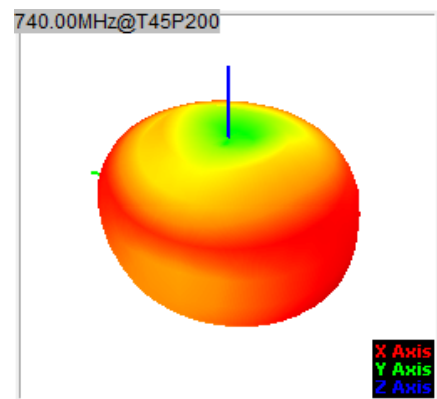
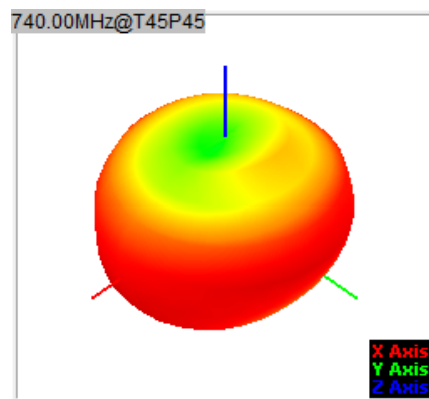
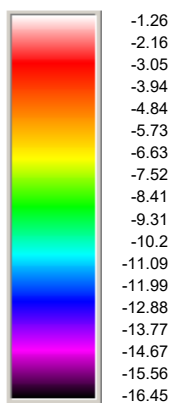
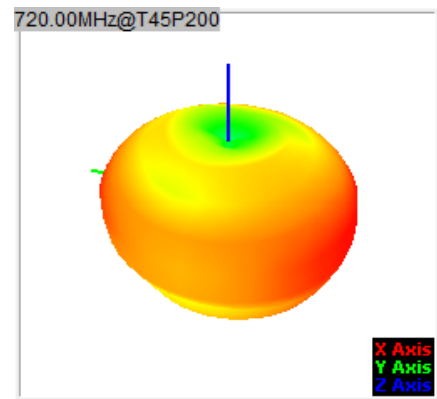
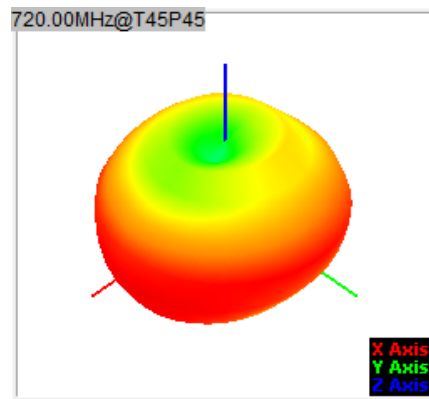
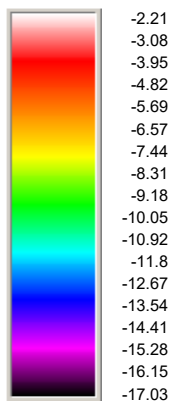
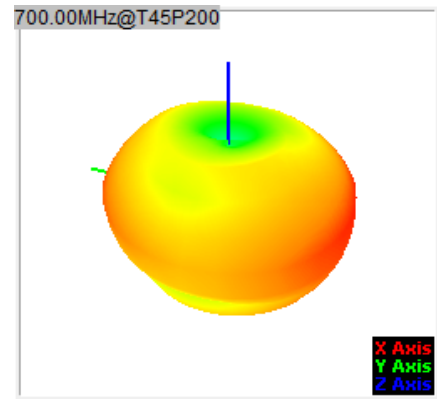
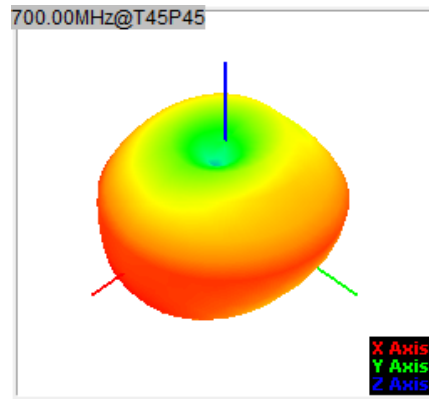
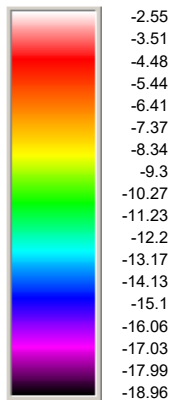
Contact: Wang Zhiqiang Contact: 13760153961 Tel: 0755-21633653 Fax: 0755-21633541

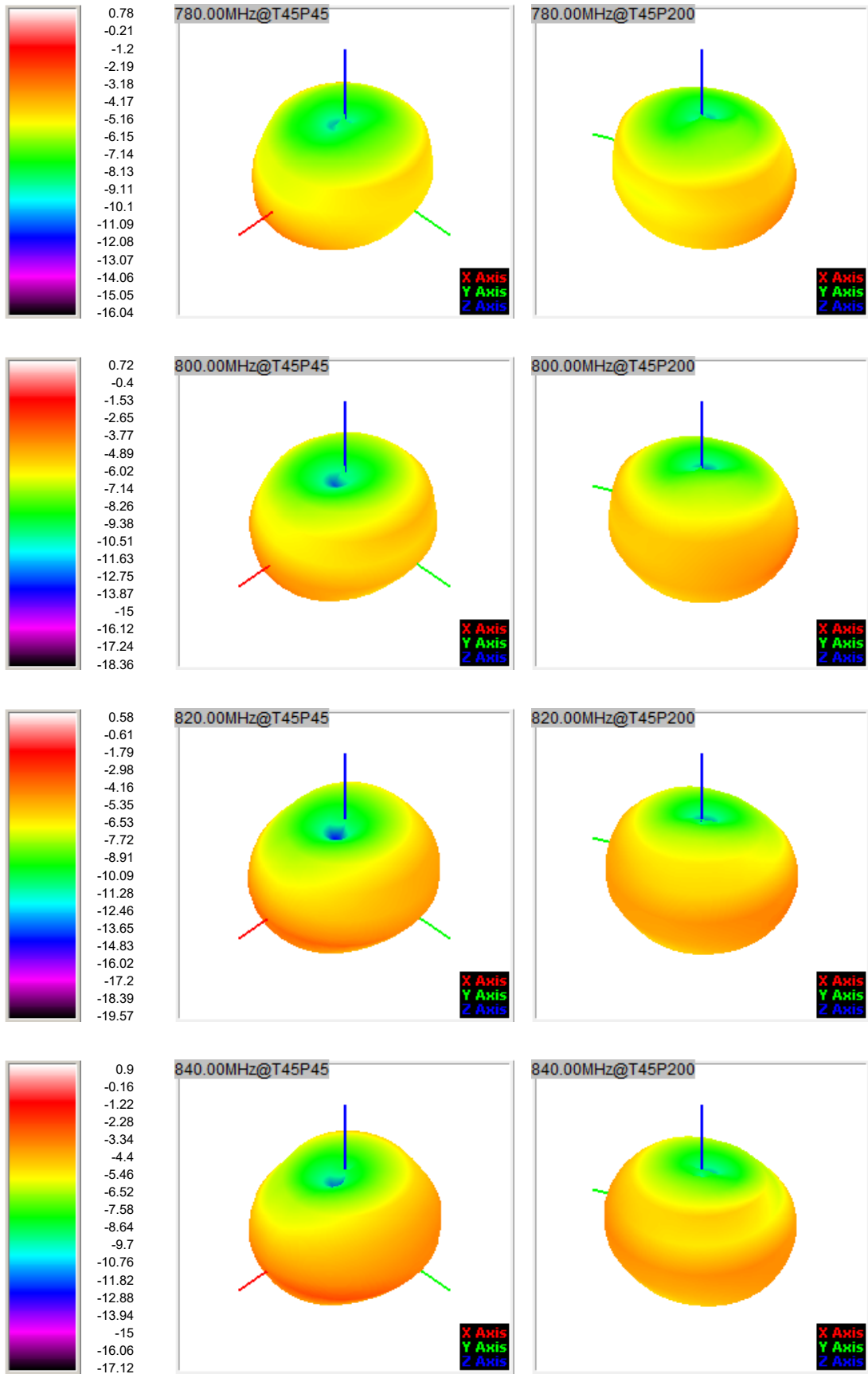
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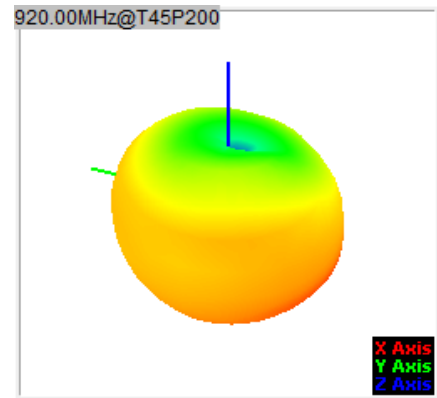
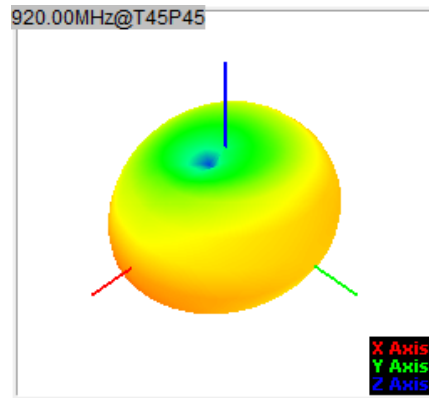
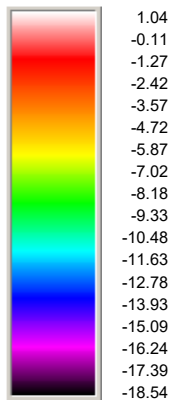
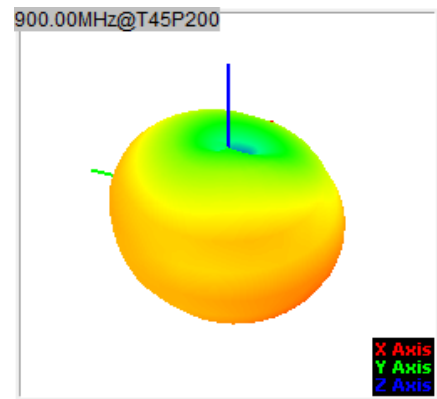
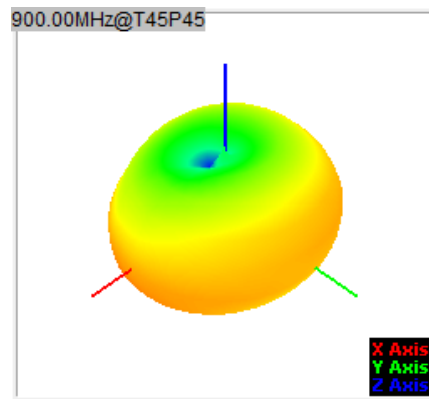
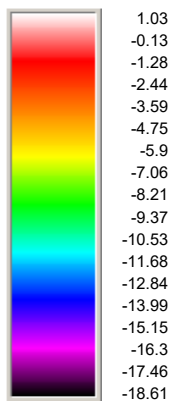
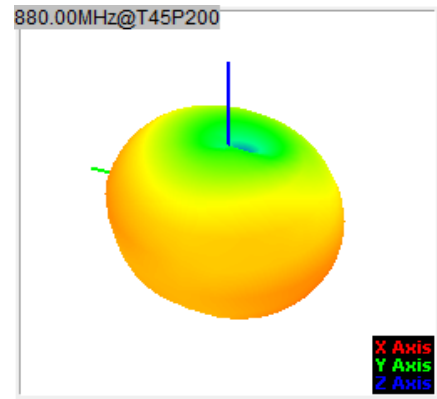
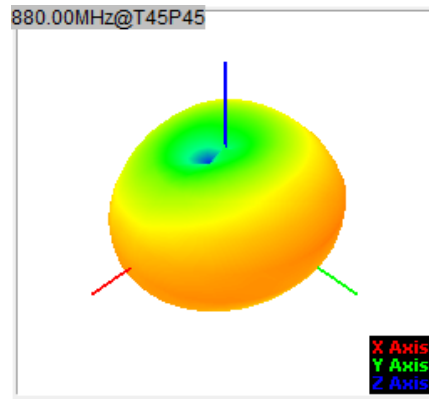
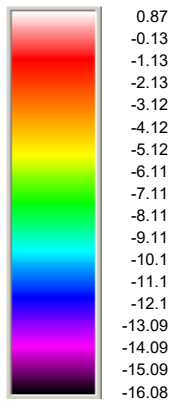
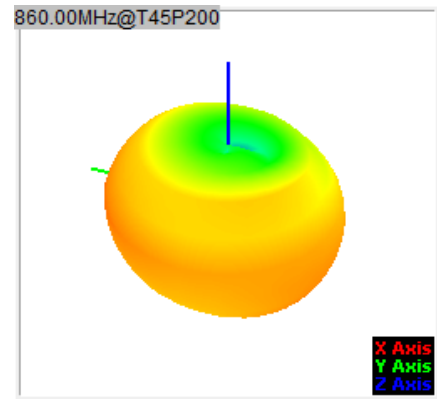
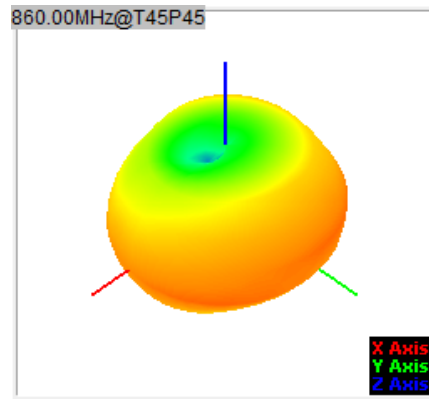
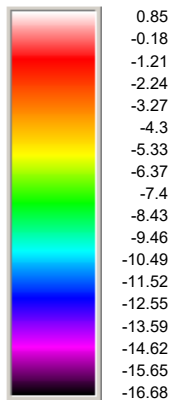
1. Antenna gain efficiency

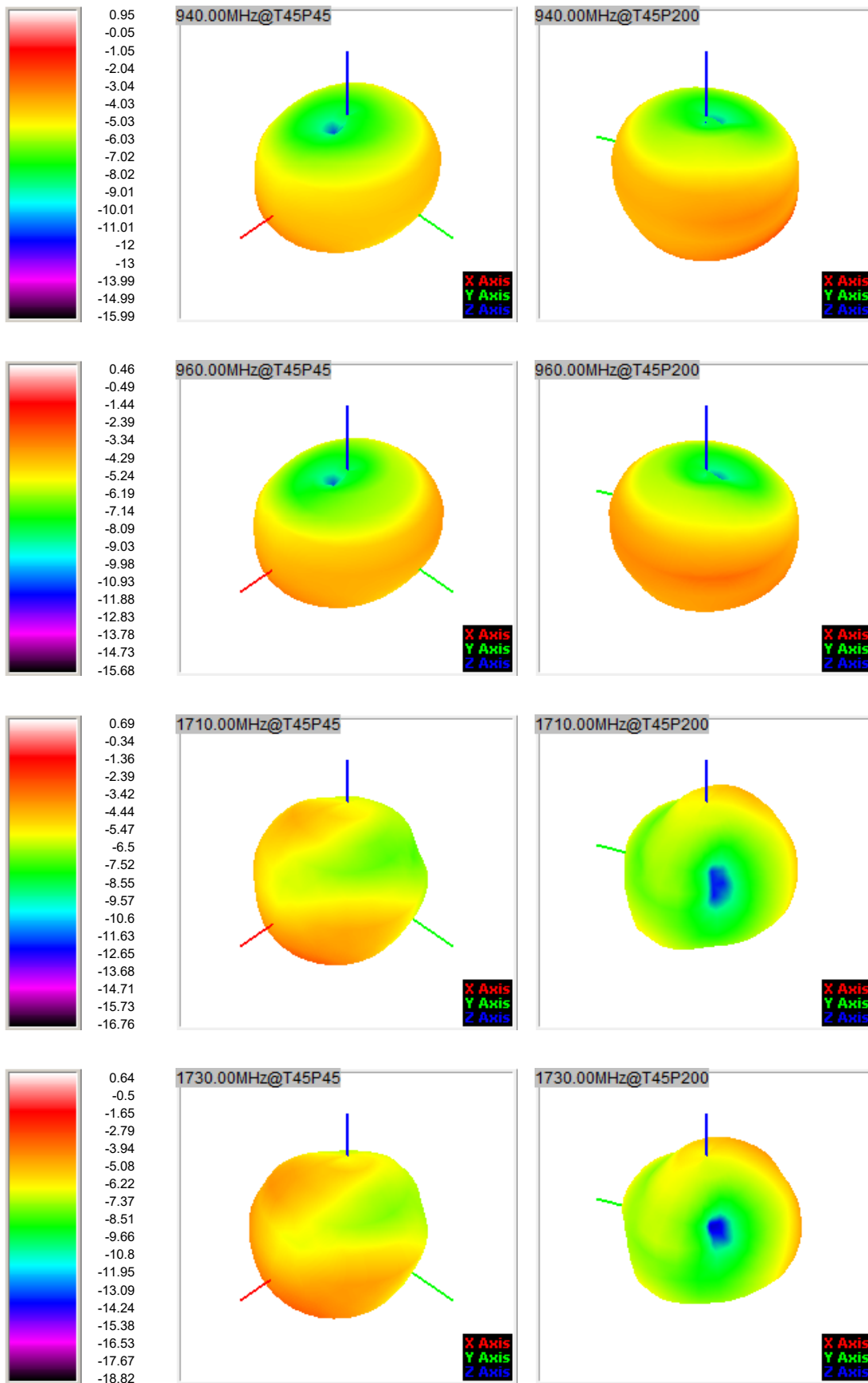
Frequency ID	Frequency (MHz)	Total Radiated Power (dBm)	Peak EIRP (dBm)	Directivity (dBi)	Efficiency (dB)	Efficiency (%)	Gain (dBi)	NHPRP ±Pi/4 (dBm)	NHPRP ±Pi/6 (dBm)	NHPRP ±Pi/8 (dBm)	Upper Hem. PRP (dBm)	Lower Hem. PRP (dBm)	Upper Hem. PRP (%)	Lower Hem. PRP (%)
1	700.0	-6.24	-2.55	3.69	-6.24	23.80	-2.55	-6.91	-8.02	-8.92	-9.19	-9.31	12.06	11.72
2	720.0	-5.60	-2.21	3.40	-5.60	27.50	-2.21	-6.27	-7.35	-8.25	-8.59	-8.64	13.84	13.68
3	740.0	-4.62	-1.26	3.35	-4.62	34.50	-1.26	-5.26	-6.38	-7.38	-7.77	-7.49	16.71	17.83
4	760.0	-3.83	0.17	4.00	-3.83	41.40	0.17	-4.42	-5.54	-6.55	-7.34	-6.39	18.43	22.97
5	780.0	-3.08	0.78	3.85	-3.08	49.30	0.78	-3.64	-4.75	-5.75	-6.66	-5.58	21.57	27.69
6	800.0	-2.53	0.72	3.24	-2.53	55.90	0.72	-3.09	-4.21	-5.20	-5.89	-5.21	25.79	30.12
7	820.0	-2.24	0.58	2.82	-2.24	59.70	0.58	-2.83	-3.88	-4.74	-5.39	-5.12	28.92	30.75
8	840.0	-2.10	0.90	3.01	-2.10	61.60	0.90	-2.75	-3.85	-4.70	-5.14	-5.09	30.61	31.01
9	860.0	-2.14	0.85	2.99	-2.14	61.10	0.85	-2.79	-3.95	-4.87	-5.24	-5.07	29.95	31.14
10	880.0	-2.38	0.87	3.25	-2.38	57.80	0.87	-3.02	-4.13	-5.04	-5.71	-5.09	26.83	30.98
11	900.0	-2.48	1.03	3.51	-2.48	56.40	1.03	-3.12	-4.25	-5.21	-6.15	-4.93	24.29	32.15
12	920.0	-2.43	1.04	3.47	-2.43	57.10	1.04	-3.04	-4.20	-5.20	-6.22	-4.79	23.88	33.23
13	940.0	-2.27	0.95	3.21	-2.27	59.40	0.95	-2.89	-4.06	-5.07	-5.93	-4.70	25.51	33.85
14	960.0	-2.20	0.46	2.66	-2.20	60.20	0.46	-2.84	-3.94	-4.86	-5.63	-4.83	27.33	32.91
15	1710.0	-3.87	0.69	4.56	-3.87	41.00	0.69	-4.93	-6.08	-7.02	-6.96	-6.80	20.15	20.88
16	1730.0	-3.32	0.64	3.96	-3.32	46.60	0.64	-4.37	-5.51	-6.41	-6.22	-6.44	23.87	22.70
17	1750.0	-2.95	1.08	4.04	-2.95	50.60	1.08	-3.98	-5.11	-6.00	-5.77	-6.17	26.49	24.15
18	1770.0	-2.82	1.18	4.00	-2.82	52.30	1.18	-3.81	-4.96	-5.85	-5.45	-6.24	28.49	23.76
19	1790.0	-2.79	1.24	4.03	-2.79	52.60	1.24	-3.75	-4.93	-5.86	-5.20	-6.50	30.19	22.37
20	1810.0	-2.72	1.15	3.87	-2.72	53.50	1.15	-3.64	-4.81	-5.74	-5.01	-6.59	31.58	21.92
21	1830.0	-2.64	1.27	3.91	-2.64	54.50	1.27	-3.55	-4.69	-5.58	-4.87	-6.59	32.55	21.95
22	1850.0	-2.48	1.64	4.12	-2.48	56.50	1.64	-3.41	-4.54	-5.41	-4.63	-6.57	34.47	22.02
23	1870.0	-2.31	2.18	4.49	-2.31	58.70	2.18	-3.23	-4.31	-5.16	-4.36	-6.55	36.61	22.14
24	1890.0	-2.18	2.34	4.52	-2.18	60.50	2.34	-3.08	-4.13	-4.99	-4.20	-6.49	38.05	22.41
25	1910.0	-2.03	2.38	4.40	-2.03	62.70	2.38	-2.94	-4.03	-4.91	-3.92	-6.55	40.59	22.14
26	1930.0	-1.87	2.69	4.56	-1.87	65.00	2.69	-2.79	-3.89	-4.78	-3.66	-6.58	43.09	21.95
27	1950.0	-1.60	2.98	4.58	-1.60	69.10	2.98	-2.53	-3.67	-4.57	-3.31	-6.49	46.68	22.43
28	1970.0	-1.54	2.94	4.49	-1.54	70.10	2.94	-2.48	-3.67	-4.64	-3.18	-6.57	48.07	22.02
29	1990.0	-1.39	3.14	4.54	-1.39	72.60	3.14	-2.31	-3.52	-4.49	-2.95	-6.59	50.67	21.91
30	2010.0	-1.33	3.30	4.64	-1.33	73.60	3.30	-2.24	-3.44	-4.41	-2.83	-6.68	52.10	21.47
31	2030.0	-1.37	3.33	4.70	-1.37	72.90	3.33	-2.27	-3.48	-4.46	-2.83	-6.83	52.15	20.74
32	2050.0	-1.34	3.59	4.93	-1.34	73.50	3.59	-2.24	-3.42	-4.41	-2.74	-6.93	53.24	20.27
33	2070.0	-1.57	3.46	5.03	-1.57	69.70	3.46	-2.51	-3.68	-4.63	-2.90	-7.35	51.33	18.39
34	2090.0	-1.53	3.50	5.03	-1.53	70.30	3.50	-2.53	-3.69	-4.63	-2.77	-7.56	52.79	17.54
35	2110.0	-1.71	3.04	4.75	-1.71	67.50	3.04	-2.76	-3.92	-4.84	-2.89	-7.95	51.45	16.04
36	2130.0	-1.72	3.13	4.85	-1.72	67.30	3.13	-2.82	-4.01	-4.92	-2.87	-8.05	51.64	15.67
37	2150.0	-1.75	2.99	4.74	-1.75	66.90	2.99	-2.90	-4.15	-5.11	-2.85	-8.25	51.91	14.96
38	2170.0	-1.86	2.92	4.78	-1.86	65.20	2.92	-3.06	-4.37	-5.39	-2.89	-8.59	51.38	13.82
39	2300.0	-1.88	3.02	4.90	-1.88	64.90	3.02	-3.38	-4.84	-5.91	-3.07	-8.09	49.33	15.54

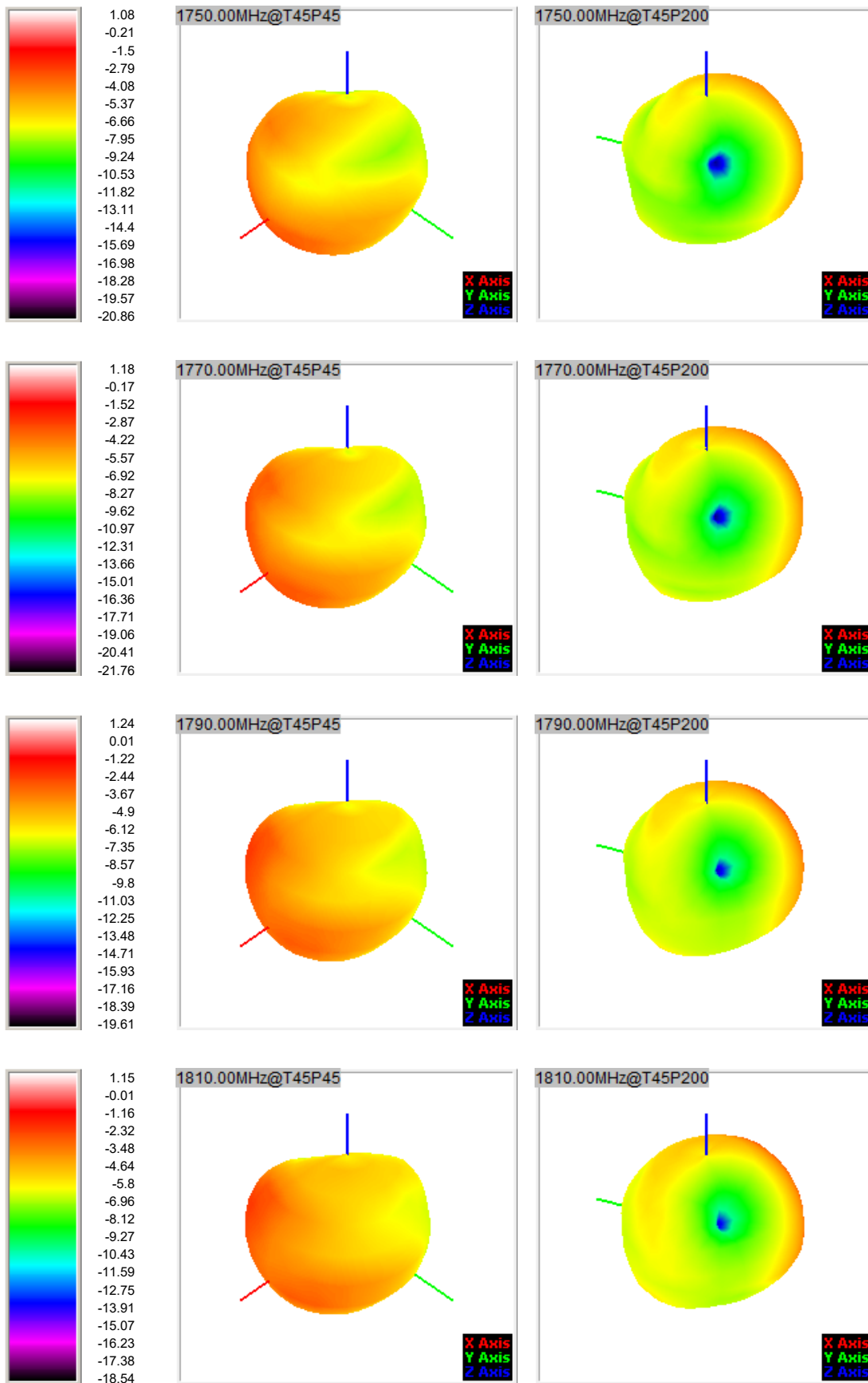
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41	2340.0	-1.67	3.22	4.89	-1.67	68.10	3.22	-3.23	-4.67	-5.73	-3.03	-7.38	49.79	18.28
42	2360.0	-1.67	3.38	5.04	-1.67	68.10	3.38	-3.25	-4.70	-5.78	-3.10	-7.17	48.95	19.18
43	2380.0	-1.70	3.51	5.22	-1.70	67.60	3.51	-3.29	-4.78	-5.87	-3.17	-7.13	48.20	19.38
44	2400.0	-1.85	3.23	5.08	-1.85	65.40	3.23	-3.43	-4.97	-6.12	-3.39	-7.09	45.87	19.52
45	2420.0	-1.92	2.93	4.85	-1.92	64.30	2.93	-3.51	-5.09	-6.28	-3.52	-7.03	44.48	19.82
46	2440.0	-1.95	2.68	4.63	-1.95	63.80	2.68	-3.54	-5.12	-6.33	-3.67	-6.82	42.98	20.81
47	2460.0	-1.83	2.86	4.69	-1.83	65.60	2.86	-3.40	-4.95	-6.10	-3.69	-6.41	42.71	22.85
48	2480.0	-1.96	2.75	4.72	-1.96	63.60	2.75	-3.51	-5.02	-6.12	-3.91	-6.39	40.68	22.96
49	2500.0	-1.90	2.91	4.81	-1.90	64.60	2.91	-3.46	-4.97	-6.05	-3.91	-6.21	40.61	23.94
50	2520.0	-2.08	2.83	4.91	-2.08	61.90	2.83	-3.68	-5.20	-6.29	-4.10	-6.38	38.89	23.03
51	2540.0	-2.11	2.67	4.79	-2.11	61.50	2.67	-3.73	-5.31	-6.47	-4.17	-6.35	38.30	23.15
52	2560.0	-2.12	2.80	4.92	-2.12	61.30	2.80	-3.73	-5.35	-6.56	-4.27	-6.22	37.43	23.89
53	2580.0	-2.01	3.13	5.14	-2.01	62.90	3.13	-3.57	-5.16	-6.34	-4.28	-5.91	37.31	25.62
54	2600.0	-1.87	3.42	5.29	-1.87	65.00	3.42	-3.38	-4.97	-6.17	-4.25	-5.61	37.55	27.48
55	2620.0	-1.96	3.39	5.35	-1.96	63.70	3.39	-3.45	-5.08	-6.33	-4.45	-5.56	35.87	27.80
56	2640.0	-1.92	3.23	5.15	-1.92	64.20	3.23	-3.40	-5.03	-6.30	-4.53	-5.38	35.23	28.99
57	2660.0	-2.11	2.84	4.94	-2.11	61.50	2.84	-3.58	-5.23	-6.50	-4.75	-5.52	33.48	28.06
58	2680.0	-2.09	2.74	4.83	-2.09	61.80	2.74	-3.57	-5.29	-6.61	-4.73	-5.51	33.67	28.11
59	2700.0	-2.21	2.47	4.68	-2.21	60.10	2.47	-3.71	-5.50	-6.86	-4.86	-5.63	32.69	27.37

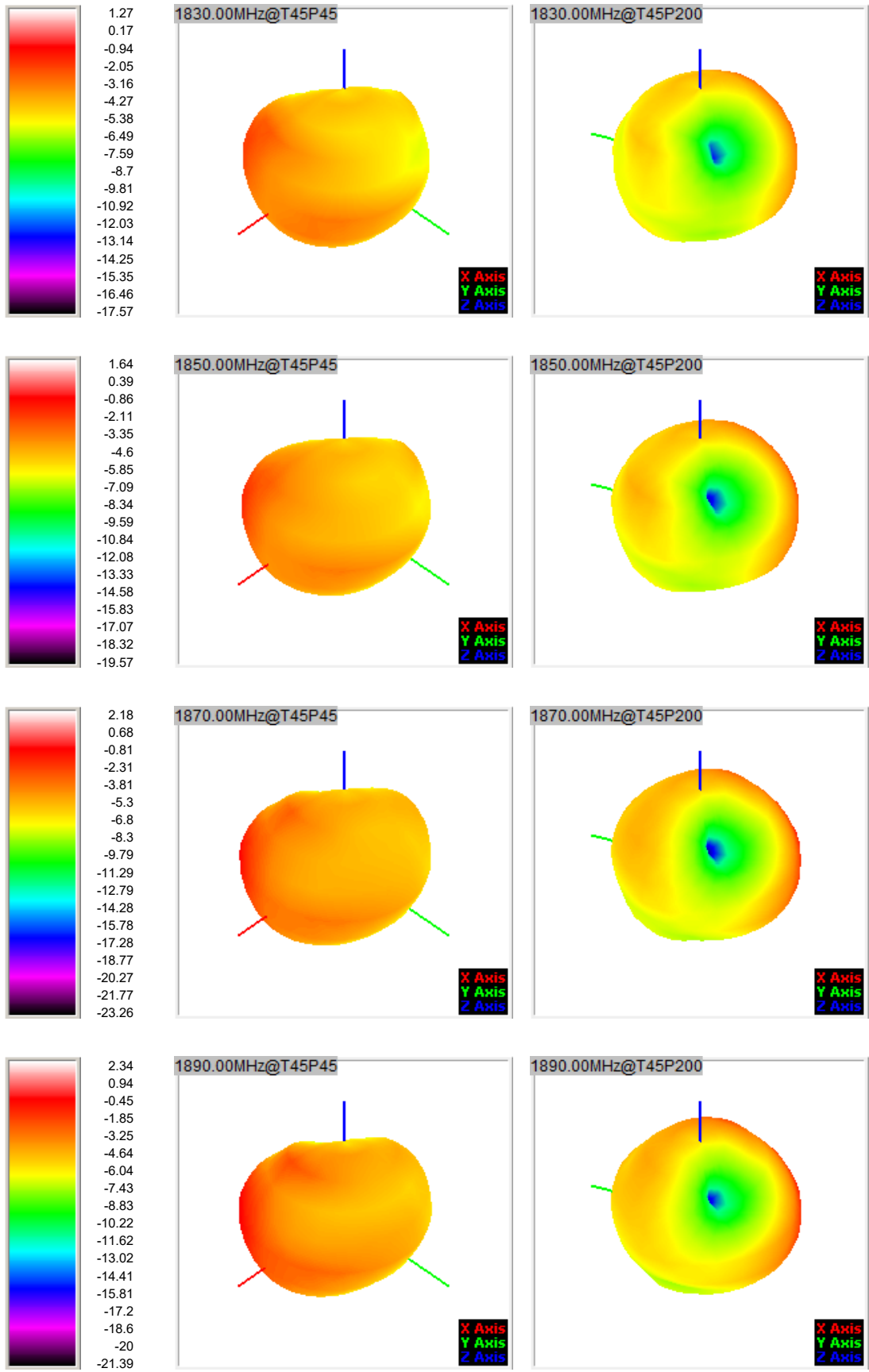


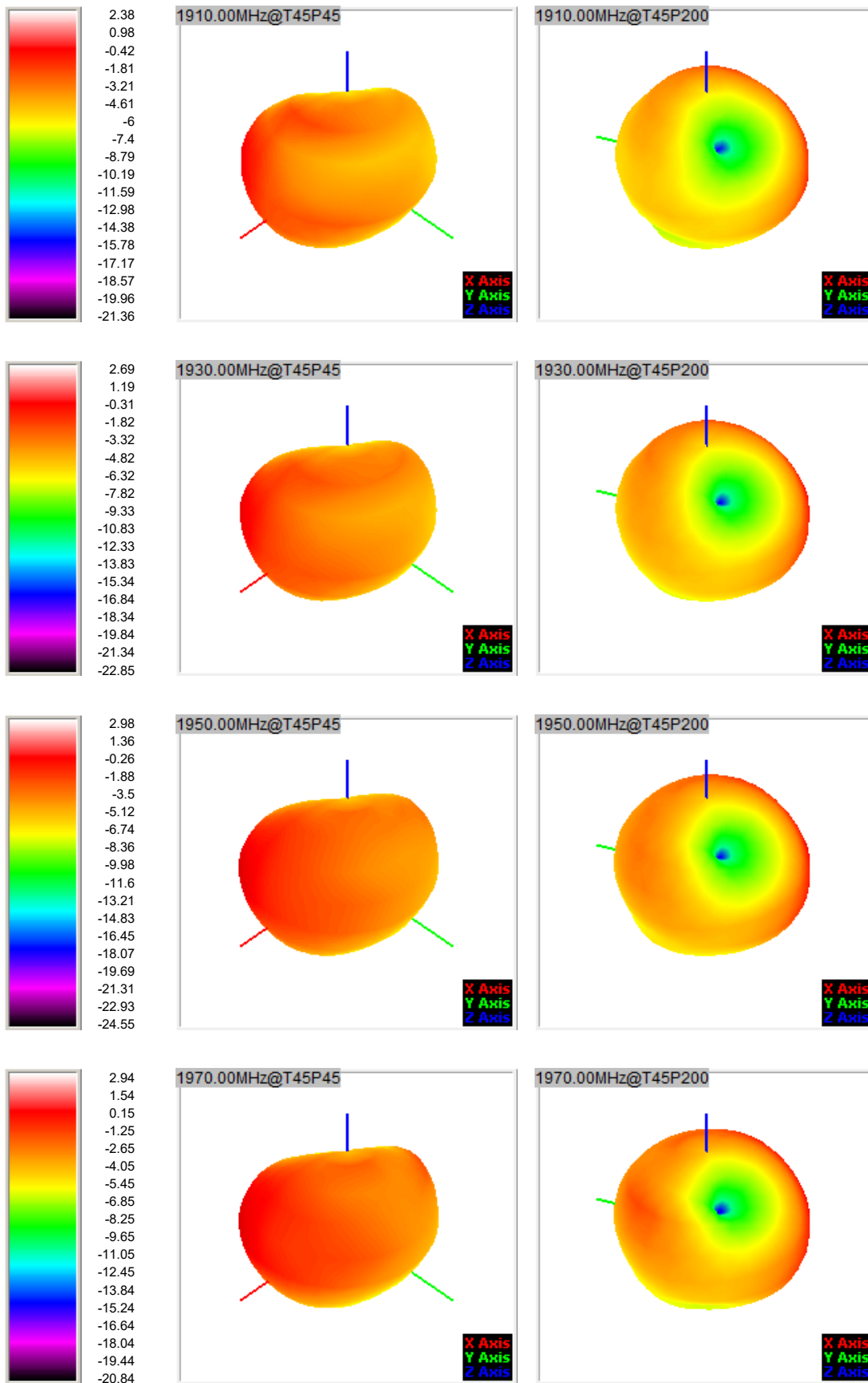


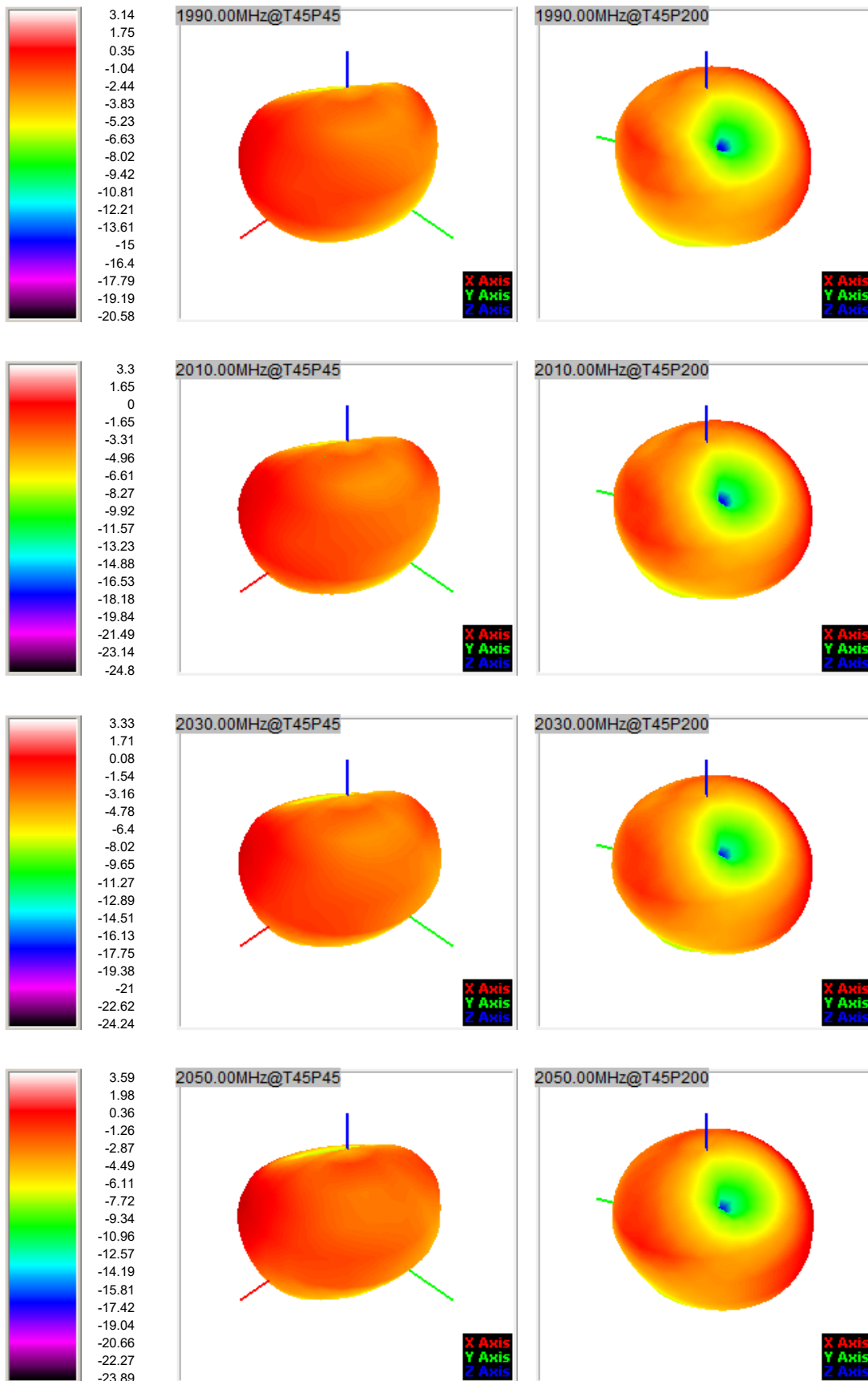


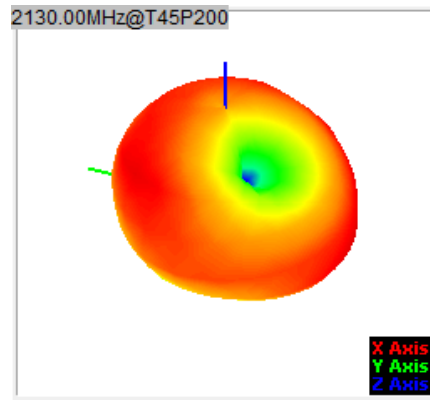
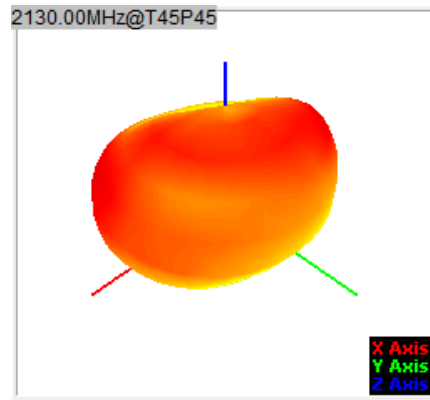
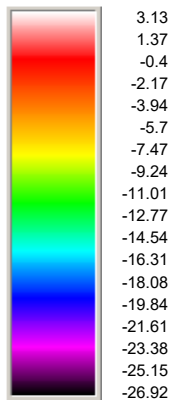
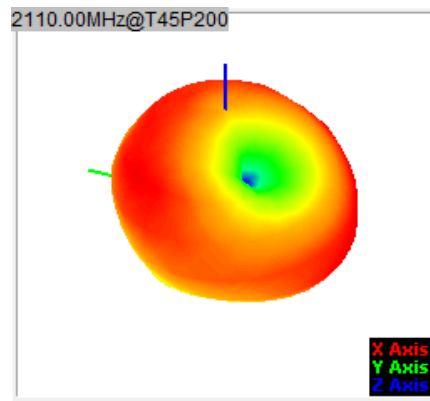
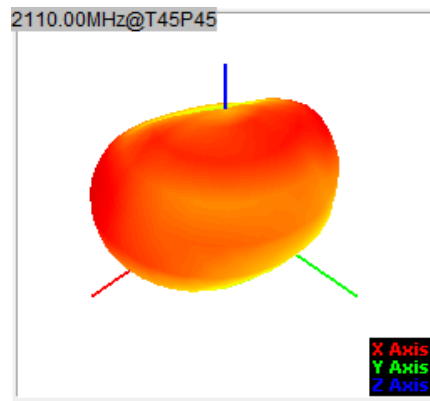
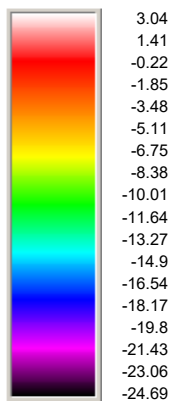
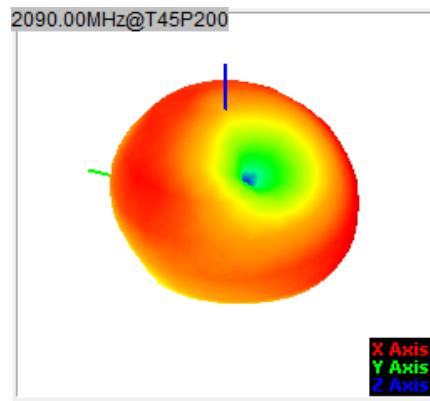
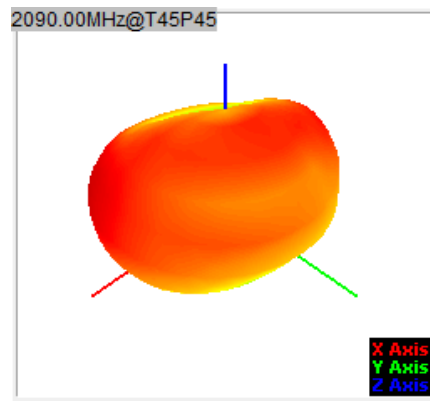
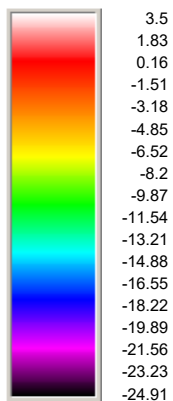
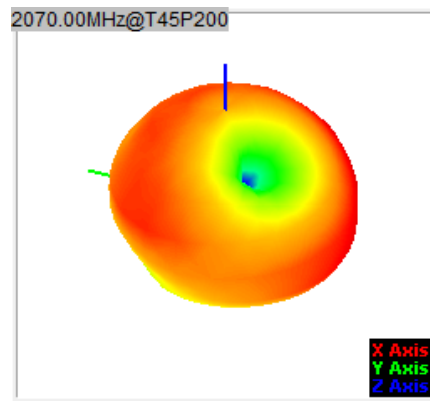
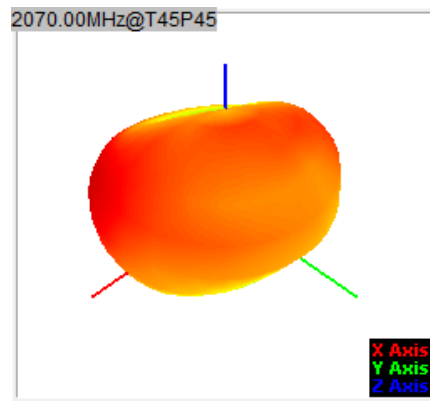
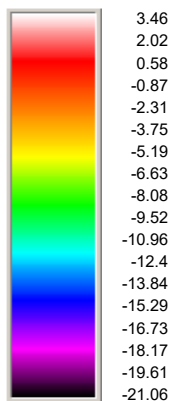


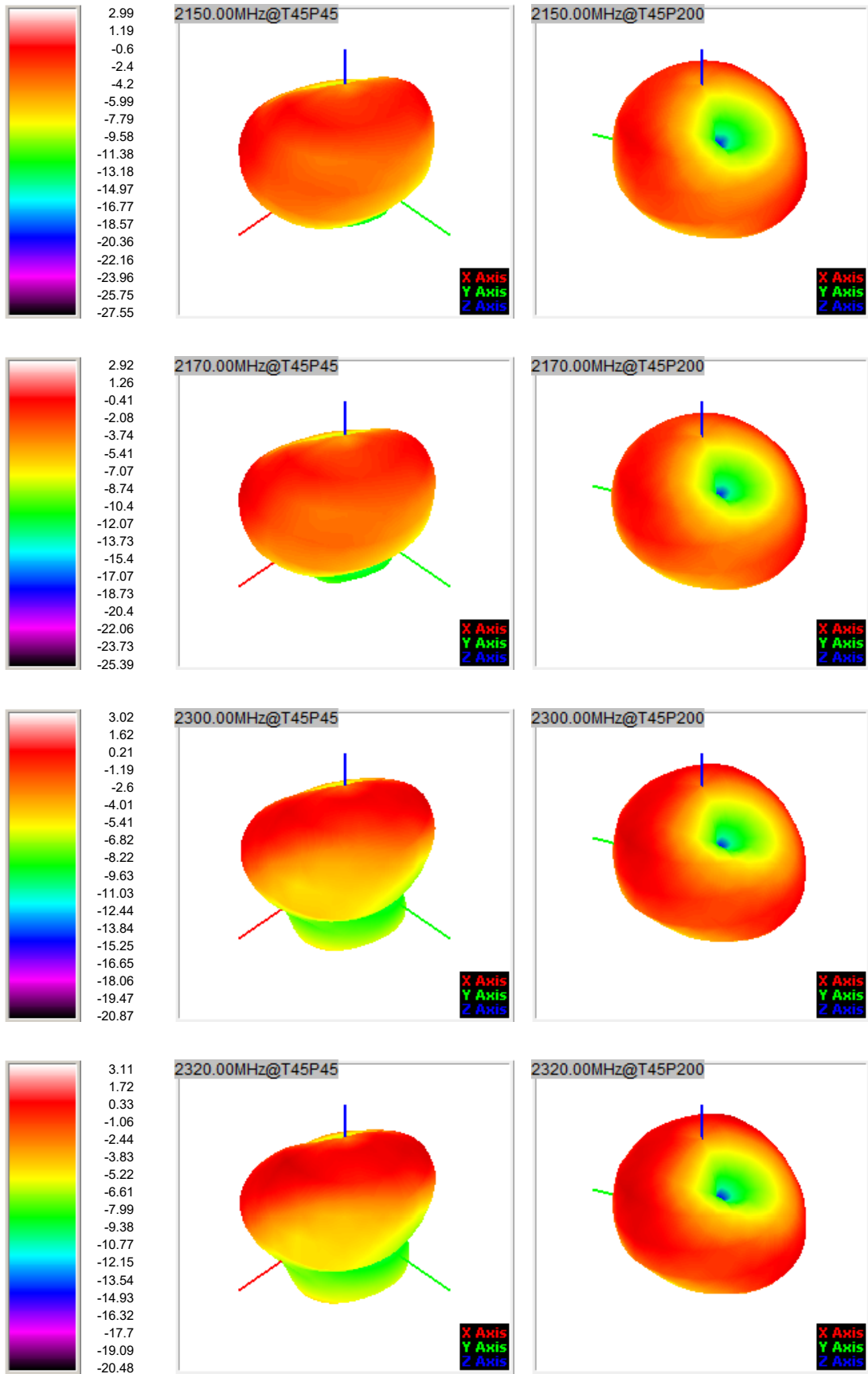


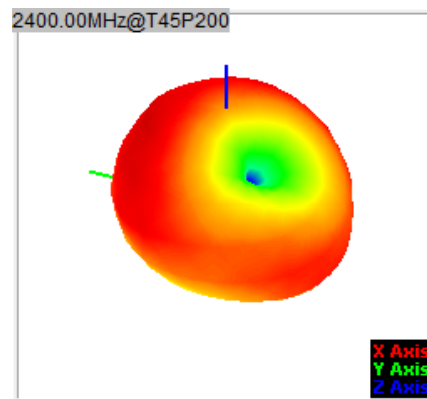
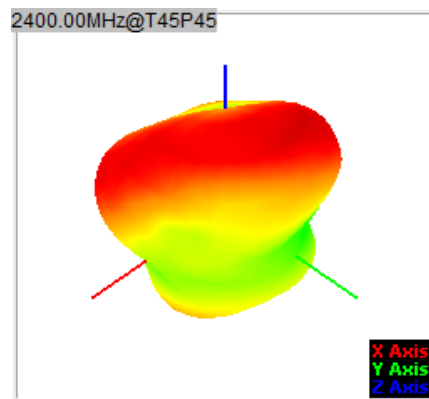
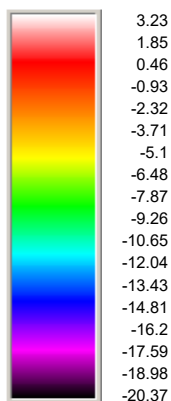
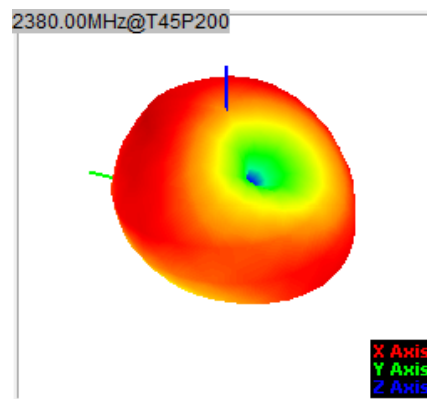
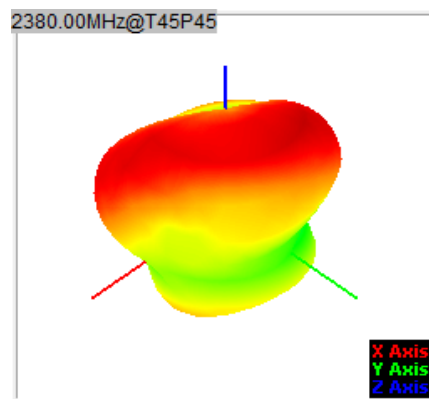
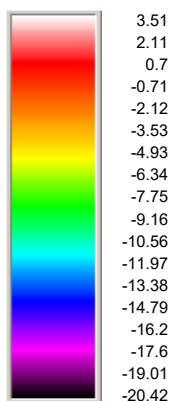
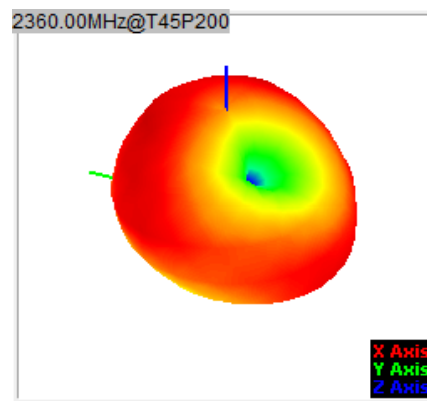
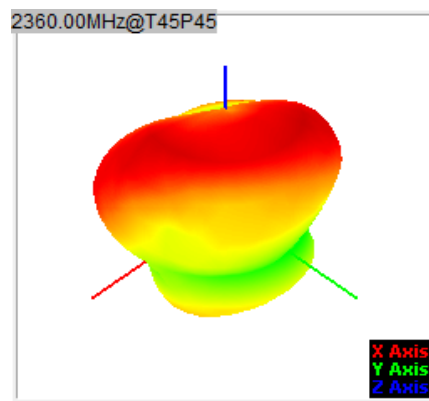
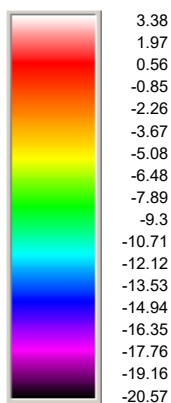
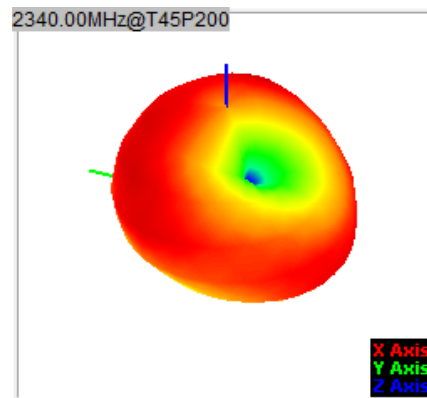
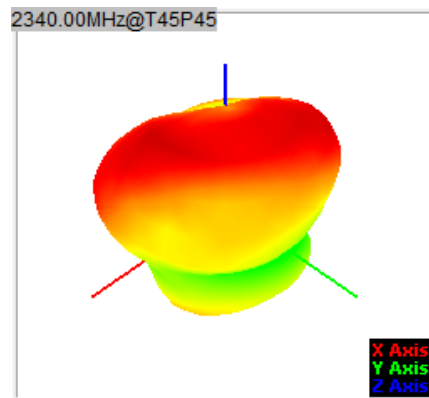
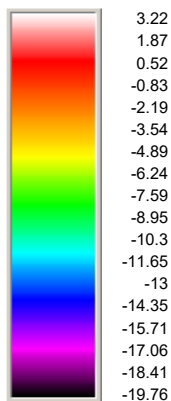


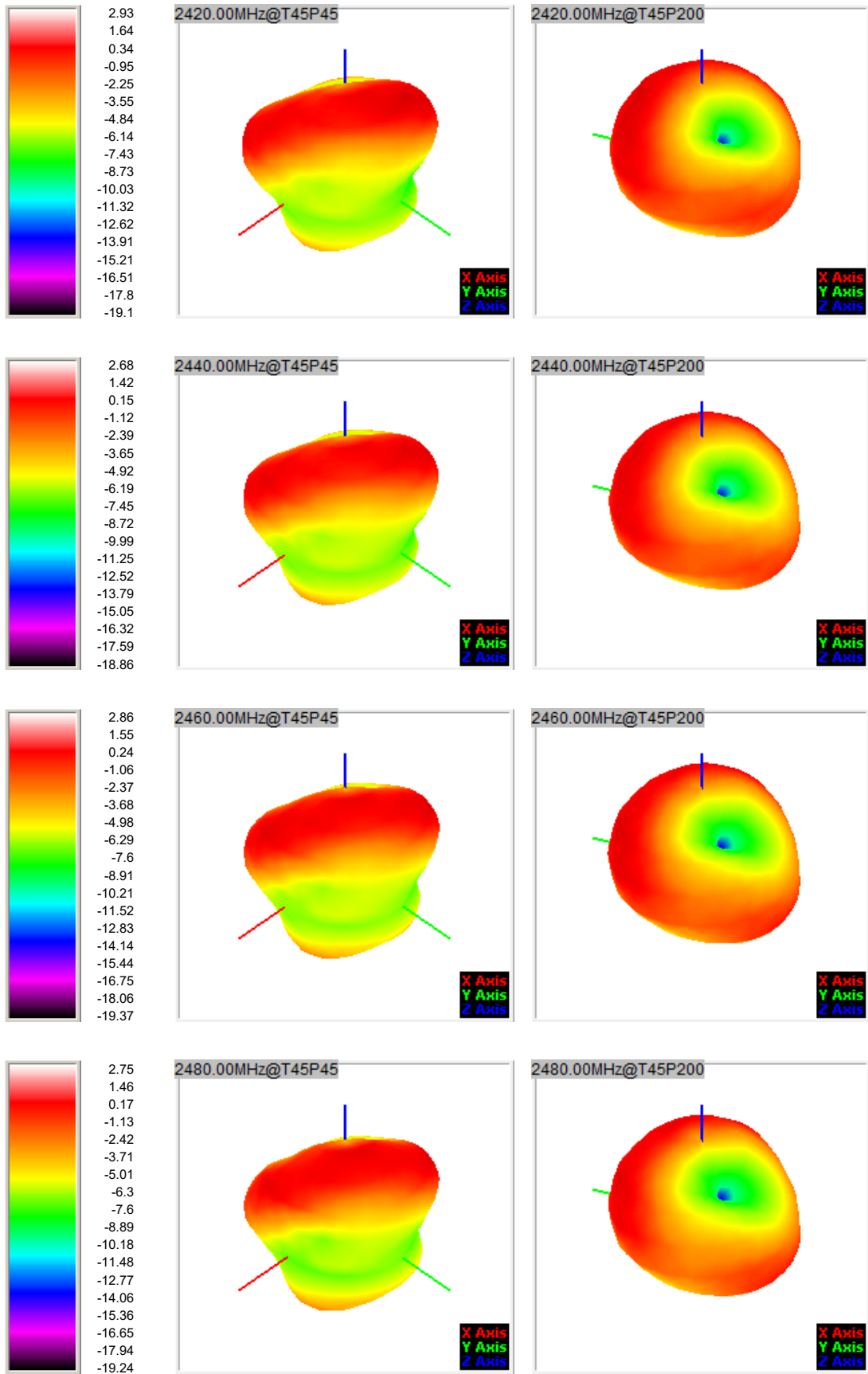


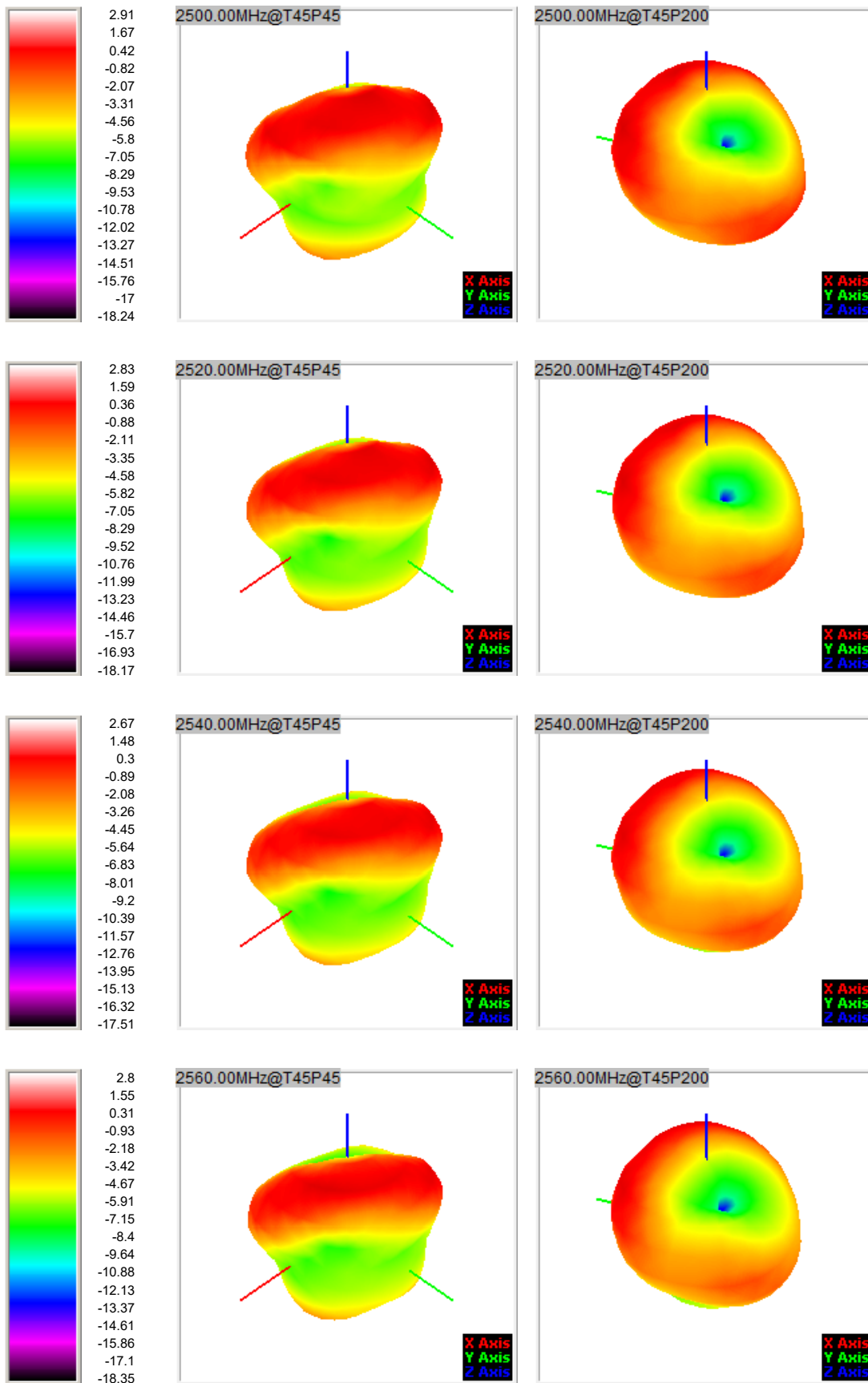


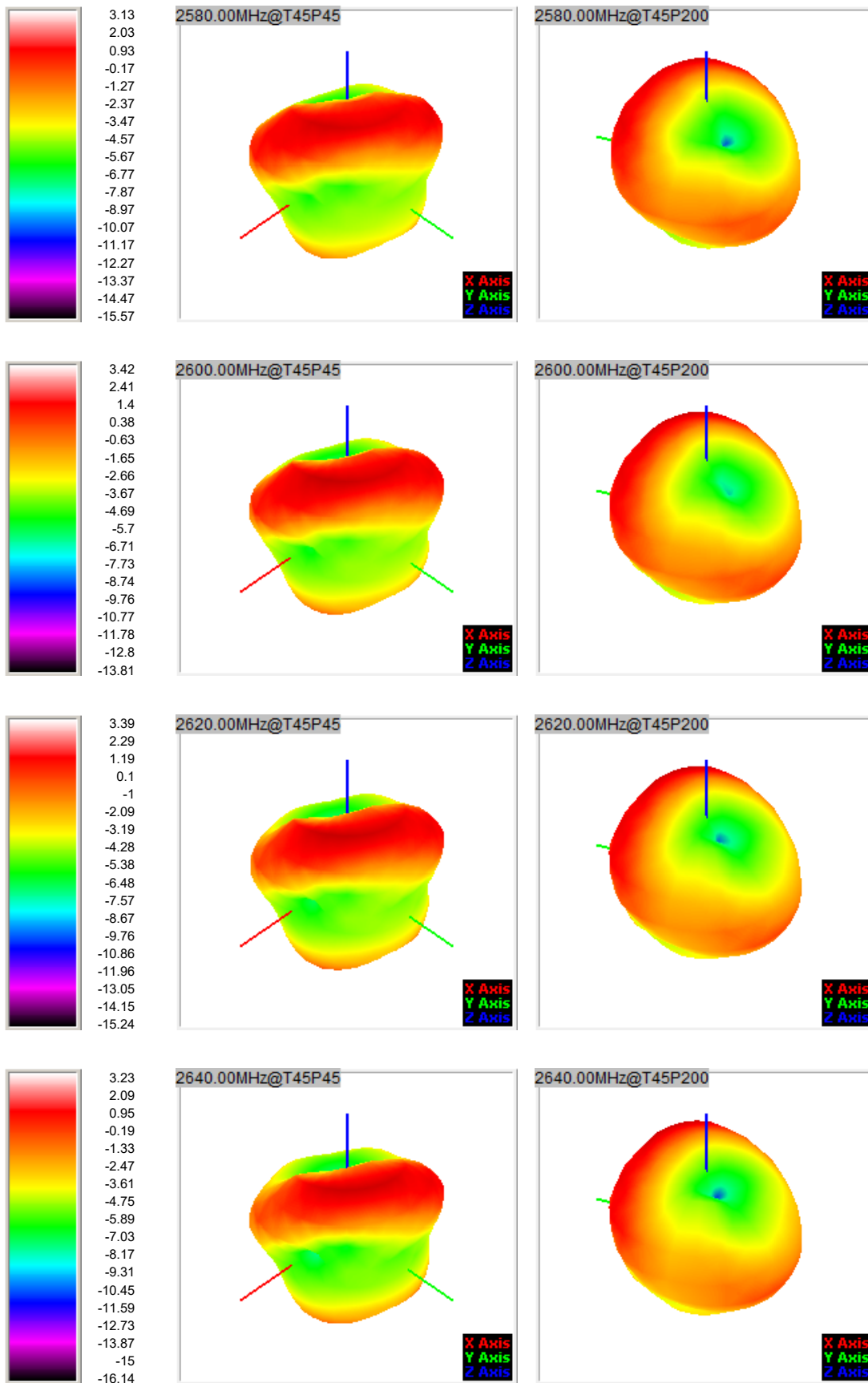


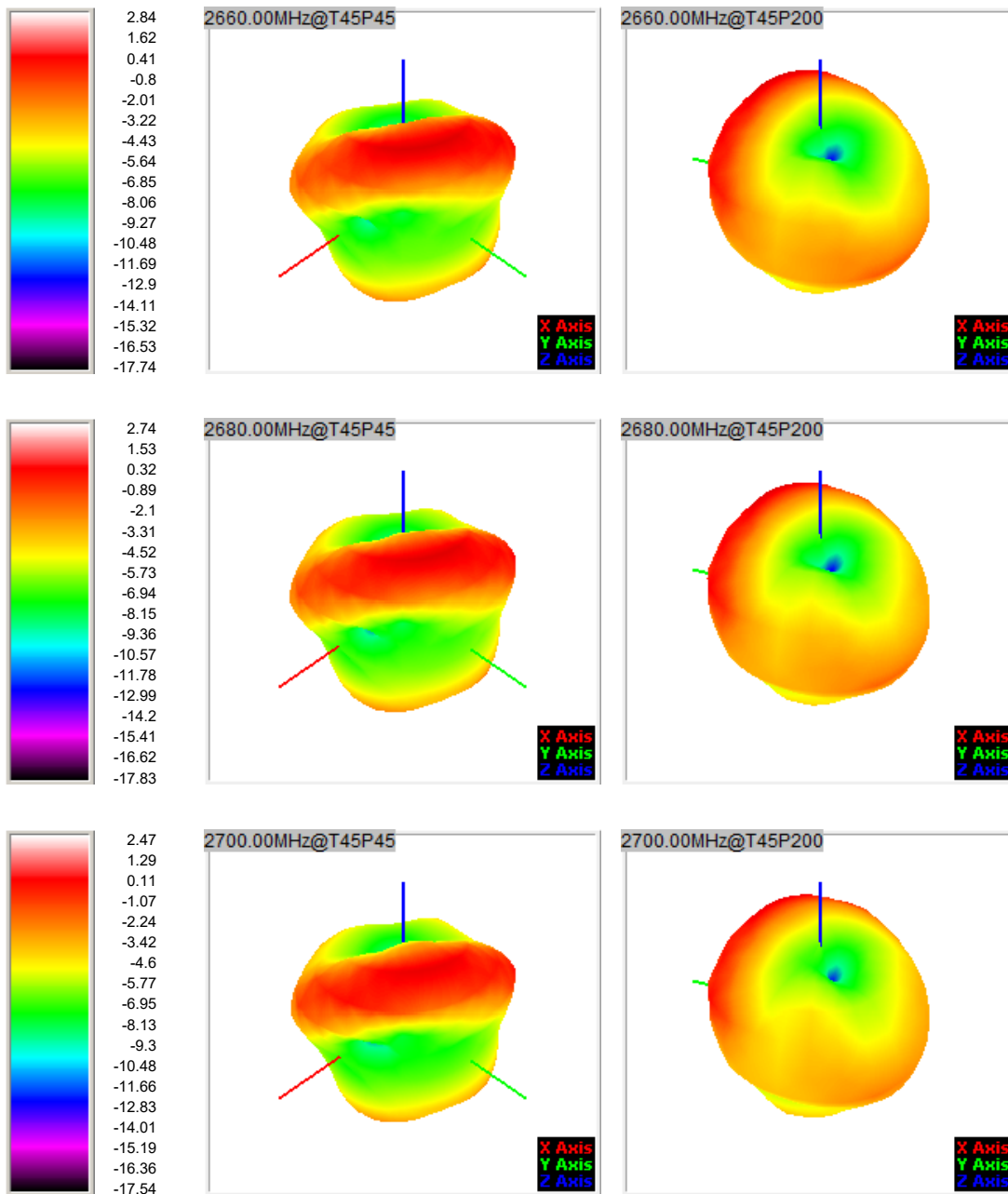












2. Antenna structure drawing

