

Datasheet

SPEC: 2.4G and 5G/L=200MM/The first generation of IPEX

DATE: 2023/05/05

Factory confirmed:

sector	review	approve
RF	Jingxiong.Liu	bin.Li
SD	Dong.Xie	bin.Li
DQE	Fei.Wang	bin.Li

Customer confirmed:

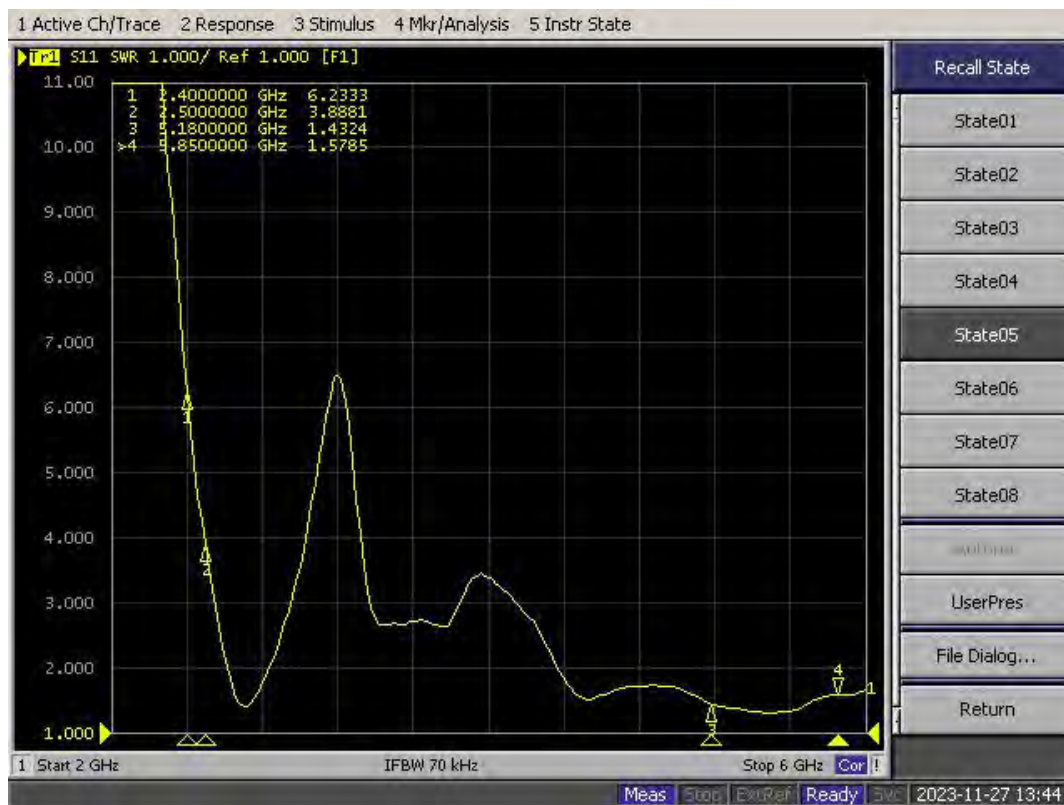
check	review	approve
Xue.Li	Xin.Zhang	Heng.Wang

1. Product images:



2. Electrical performance test report:

VSWR:



3.Product performance parameters:

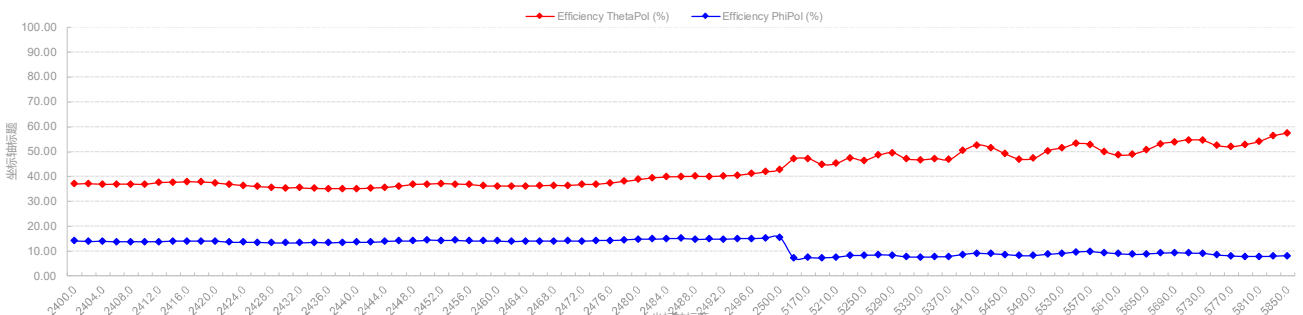
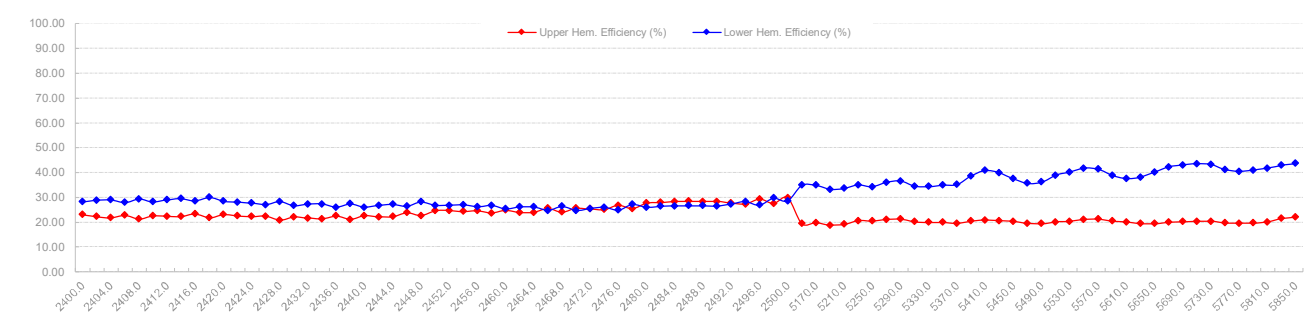
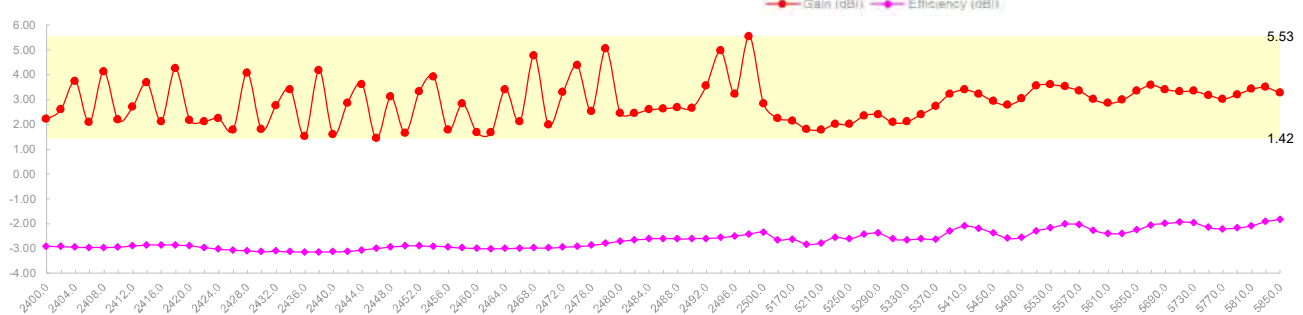
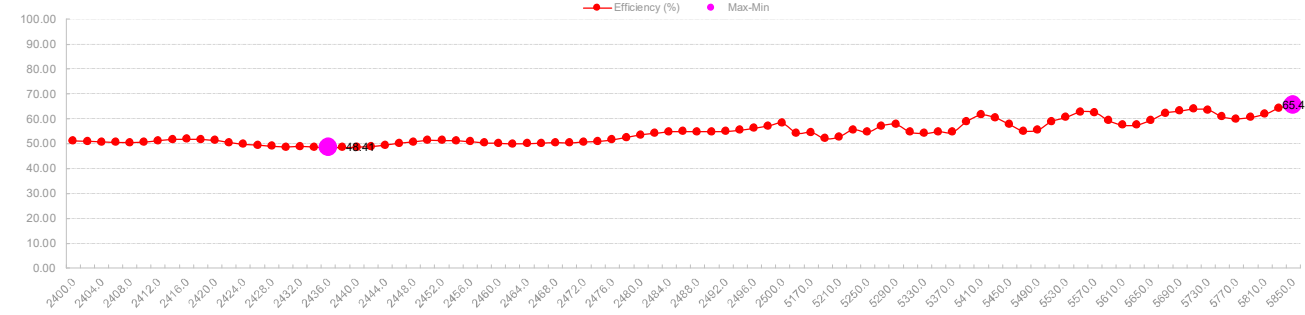
Electrical Specifications	
Frequency Range (MHz)	2400-2500/5150-5850
Input Impedence (Ω)	50
V.S.W.R	≤ 2.0
Gain (dBi)	2.16
Polarization Type	Vertical
Maximum power(W)	10W
Vertical lobe Angle (E)	45~60°
Water plane lobe Angle (H)	360°
Mechanical Specifications	
Material	FPC
Connect Type	IPEX(First generation)
Size	FPC: 35*11mm*0.25mm
Operating Temp	-25 ~ +75 °C

4. Product Size:

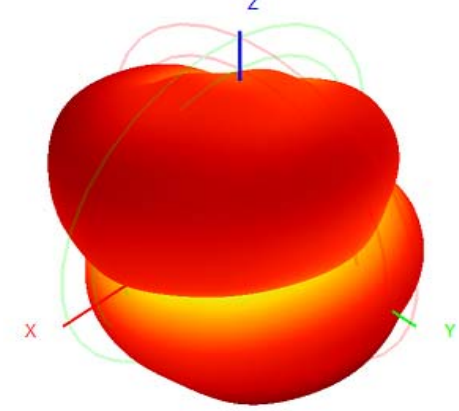




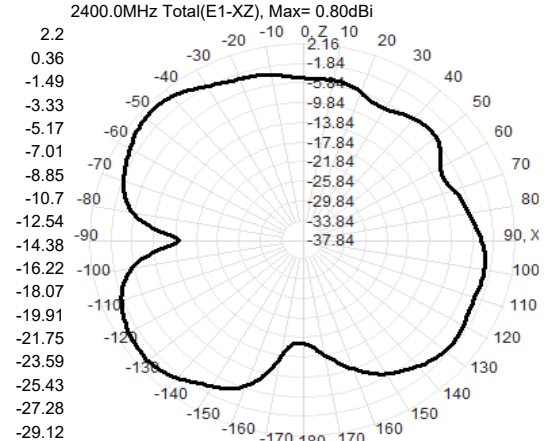
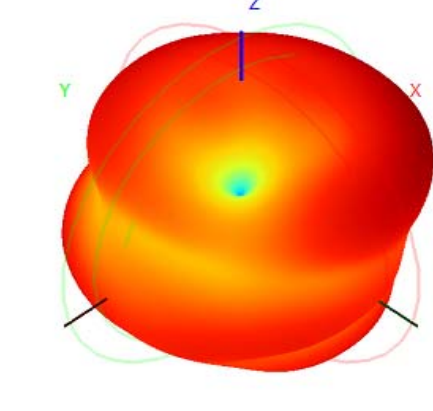
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Frequency (GHz)	2400	2402	2404	2406	2408	2410	2412	2414	2416	2418	2420	2422	2424	2426	2428	2430	2432	2434	2436	2438	2440	2442	2444	2446	2448	2450	2452	2454	2456	2458	2460	2462	2464	2466	2468	2470	2472	2474	2476	2478	2480	2482	2484	2486	2488	2490	2492	2494	2496	2498	2500	2502	2504	2506	2508	2510	2512	2514	2516	2518	2520	2522	2524	2526	2528	2530	2532	2534	2536	2538	2540	2542	2544	2546	2548	2550	2552	2554	2556	2558	2560	2562	2564	2566	2568	2570	2572	2574	2576	2578	2580	2582	2584	2586	2588	2590	2592	2594	2596	2598	2600	2602	2604	2606	2608	2610	2612	2614	2616	2618	2620	2622	2624	2626	2628	2630	2632	2634	2636	2638	2640	2642	2644	2646	2648	2650	2652	2654	2656	2658	2660	2662	2664	2666	2668	2670	2672	2674	2676	2678	2680	2682	2684	2686	2688	2690	2692	2694	2696	2698	2700	2702	2704	2706	2708	2710	2712	2714	2716	2718	2720	2722	2724	2726	2728	2730	2732	2734	2736	2738	2740	2742	2744	2746	2748	2750	2752	2754	2756	2758	2760	2762	2764	2766	2768	2770	2772	2774	2776	2778	2780	2782	2784	2786	2788	2790	2792	2794	2796	2798	2800	2802	2804	2806	2808	2810	2812	2814	2816	2818	2820	2822	2824	2826	2828	2830	2832	2834	2836	2838	2840	2842	2844	2846	2848	2850	2852	2854	2856	2858	2860	2862	2864	2866	2868	2870	2872	2874	2876	2878	2880	2882	2884	2886	2888	2890	2892	2894	2896	2898	2900	2902	2904	2906	2908	2910	2912	2914	2916	2918	2920	2922	2924	2926	2928	2930	2932	2934	2936	2938	2940	2942	2944	2946	2948	2950	2952	2954	2956	2958	2960	2962	2964	2966	2968	2970	2972	2974	2976	2978	2980	2982	2984	2986	2988	2990	2992	2994	2996	2998	3000	3002	3004	3006	3008	3010	3012	3014	3016	3018	3020	3022	3024	3026	3028	3030	3032	3034	3036	3038	3040	3042	3044	3046	3048	3050	3052	3054	3056	3058	3060	3062	3064	3066	3068	3070	3072	3074	3076	3078	3080	3082	3084	3086	3088	3090	3092	3094	3096	3098	3100	3102	3104	3106	3108	3110	3112	3114	3116	3118	3120	3122	3124	3126	3128	3130	3132	3134	3136	3138	3140	3142	3144	3146	3148	3150	3152	3154	3156	3158	3160	3162	3164	3166	3168	3170																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Efficiency (dB)	-2.92	-2.63	-2.95	-2.97	-2.97	-2.97	-2.96	-2.91	-2.87	-2.86	-2.87	-2.86	-2.86	-2.86	-2.83	-2.87	-2.81	-2.74	-2.64	-2.55	-2.44	-2.32	-2.17	-2.05	-1.92	-1.79	-1.66	-1.53	-1.40	-1.27	-1.14	-1.01	-0.88	-0.75	-0.62	-0.49	-0.36	-0.23	-0.10	0.03	0.16	0.29	0.42	0.55	0.68	0.81	0.94	1.07	1.20	1.33	1.46	1.59	1.72	1.85	1.98	2.11	2.24	2.37	2.50	2.63	2.76	2.89	3.02	3.15	3.28	3.41	3.54	3.67	3.80	3.93	4.06	4.19	4.32	4.45	4.58	4.71	4.84	4.97	5.10	5.23	5.36	5.49	5.62	5.75	5.88	6.01	6.14	6.27	6.40	6.53	6.66	6.79	6.92	7.05	7.18	7.31	7.44	7.57	7.70	7.83	7.96	8.09	8.22	8.35	8.48	8.61	8.74	8.87	9.00	9.13	9.26	9.39	9.52	9.65	9.78	9.91	10.04	10.17	10.30	10.43	10.56	10.69	10.82	10.95	11.08	11.21	11.34	11.47	11.60	11.73	11.86	11.99	12.12	12.25	12.38	12.51	12.64	12.77	12.90	13.03	13.16	13.29	13.42	13.55	13.68	13.81	13.94	14.07	14.20	14.33	14.46	14.59	14.72	14.85	14.98	15.11	15.24	15.37	15.50	15.63	15.76	15.89	16.02	16.15	16.28	16.41	16.54	16.67	16.80	16.93	17.06	17.19	17.32	17.45	17.58	17.71	17.84	17.97	18.10	18.23	18.36	18.49	18.62	18.75	18.88	19.01	19.14	19.27	19.40	19.53	19.66	19.79	19.92	20.05	20.18	20.31	20.44	20.57	20.70	20.83	20.96	21.09	21.22	21.35	21.48	21.61	21.74	21.87	22.00	22.13	22.26	22.39	22.52	22.65	22.78	22.91	23.04	23.17	23.30	23.43	23.56	23.69	23.82	23.95	24.08	24.21	24.34	24.47	24.60	24.73	24.86	24.99	25.12	25.25	25.38	25.51	25.64	25.77	25.90	26.03	26.16	26.29	26.42	26.55	26.68	26.81	26.94	27.07	27.20	27.33	27.46	27.59	27.72	27.85	27.98	28.11	28.24	28.37	28.50	28.63	28.76	28.89	29.02	29.15	29.28	29.41	29.54	29.67	29.80	29.93	30.06	30.19	30.32	30.45	30.58	30.71	30.84	30.97	31.10	31.23	31.36	31.49	31.62	31.75	31.88	32.01	32.14	32.27	32.40	32.53	32.66	32.79	32.92	33.05	33.18	33.31	33.44	33.57	33.70	33.83	33.96	34.09	34.22	34.35	34.48	34.61	34.74	34.87	35.00	35.13	35.26	35.39	35.52	35.65	35.78	35.91	36.04	36.17	36.30	36.43	36.56	36.69	36.82	36.95	37.08	37.21	37.34	37.47	37.60	37.73	37.86	37.99	38.12	38.25	38.38	38.51	38.64	38.77	38.90	39.03	39.16	39.29	39.42	39.55	39.68	39.81	39.94	40.07	40.20	40.33	40.46	40.59	40.72	40.85	40.98	41.11	41.24	41.37	41.50	41.63	41.76	41.89	42.02	42.15	42.28	42.41	42.54	42.67	42.80	42.93	43.06	43.19	43.32	43.45	43.58	43.71	43.84	43.97	44.10	44.23	44.36	44.49	44.62	44.75	44.88	45.01	45.14	45.27	45.40	45.53	45.66	45.79	45.92	46.05	46.18	46.31	46.44	46.57	46.70	46.83	46.96	47.09	47.22	47.35	47.48	47.61	47.74	47.87	48.00	48.13	48.26	48.39	48.52	48.65	48.78	48.91	49.04	49.17	49.30	49.43	49.56	49.69	49.82	49.95	50.08	50.21	50.34	50.47	50.60	50.73	50.86	50.99	51.12	51.25	51.38	51.51	51.64	51.77	51.90	52.03	52.16	52.29	52.42	52.55	52.68	52.81	52.94	53.07	53.20	53.33	53.46	53.59	53.72	53.85	53.98	54.11	54.24	54.37	54.50	54.63	54.76	54.89	55.02	55.15	55.28	55.41	55.54	55.67	55.80	55.93	56.06	56.19	56.32	56.45	56.58	56.71	56.84	56.97	57.10	57.23	57.36	57.49	57.62	57.75	57.88	58.01	58.14	58.27	58.40	58.53	58.66	58.79	58.92	59.05	59.18	59.31	59.44	59.57	59.70	59.83	59.96	60.09	60.22	60.35	60.48	60.61	60.74	60.87	61.00	61.13	61.26	61.39	61.52	61.65	61.78	61.91	62.04	62.17	62.30	62.43	62.56	62.69	62.82	62.95	63.08	63.21	63.34	63.47	63.60	63.73	63.86	63.99	64.12	64.25	64.38	64.51	64.64	64.77	64.90	65.03	65.16	65.29	65.42	65.55	65.68	65.81	65.94	66.07	66.20	66.33	66.46	66.59	66.72	66.85	66.98	67.11	67.24	67.37	67.50	67.63	67.76	67.89	68.02	68.15	68.28	68.41	68.54	68.67	68.80	68.93	69.06	69.19	69.32	69.45	69.58	69.71	69.84	69.97	70.10	70.23	70.36	70.49	70.62	70.75	70.88	71.01	71.14	71.27	71.40	71.53	71.66	71.79	71.92	72.05	72.18	72.31	72.44	72.57	72.70	72.83	72.96	73.09	73.22	73.35	73.48	73.61	73.74	73.87	74.00	74.13	74.26	74.39	74.52	74.65	74.78	74.91	75.04	75.17	75.30	75.43	75.56	75.69	75.82	75.95	76.08	76.21	76.34	76.47	76.60	76.73	76.86	76.99	77.12	77.25	77.38	77.51	77.64	77.77	77.90	78.03	78.16	78.29	78.42	78.55	78.68	78.81	78.94	79.07	79.20	79.33	79.46	79.59	79.72	79.85	79.98	80.11	80.24	80.37	80.50	80.63	80.76	80.89	81.02	81.15	81.28	81.41	81.54	81.67	81.80	81.93	82.06	82.19	82.32	82.45	82.58	82.71	82.84	82.97	83.10	83.23	83.36	83.49	83.62	83.75	83.88	84.01	84.14	84.27	84.40	84.53	84.66	84.79	84.92	85.05	85.18	85.31	85.44	85.57	85.70	85.83	85.96	86.09	86.22	86.35	86.48	86.61	86.74	86.87	87.00	87.13	87.26	87.39	87.52	87.65	87.78	87.91	88.04	88.17	88.30	88.43	88.56	88.69	88.82	88.95	89.08	89.21	89.34	89.47	89.60	89.73	89.86	89.99	90.12	90.25	90.38	90.51	90.64	90.77	90.90	91.03	91.16	91.29	91.42	91.55	91.68	91.81	91.94	92.07	92.20	92.33	92.46	92.59	92.72	92.85	92.98	93.11	93.24	93.37	93.50	93.63	93.76	93.89	94.02	94.15	94.28	94.41	94.54	94.67	94.80	94.93	95.06	95.19	95.32	95.45	95.58	95.71	95.84	95.97	96.10	96.23	96.36	96.49	96.62	96.75	96.88	97.01	97.14	97.27	97.40	97.53	97.66	97.79	97.92	98.05	98.18	98.31	98.44	98.57	98.70	98.83	98.96	99.09	99.22	99.35	99.48	99.61	99.74	99.87	100.00	100.13	100.26	100.39	100.52	100.65	100.78	100.91	101.04	101.17	101.30	101.43	101.56	101.69	101.82	101.95	102.08	102.21	102.34	102.47	102.60	102.73	102.86	102.99	103.12	103.25	103.38	103.51



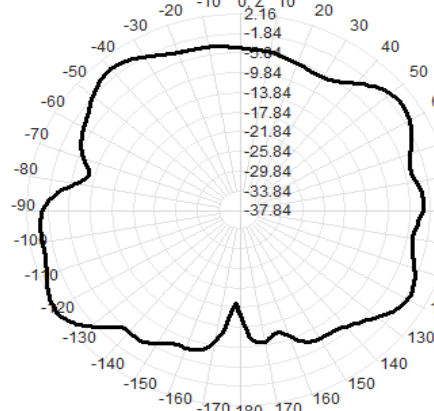
2400.0MHz H+V, Eff: 51.1%



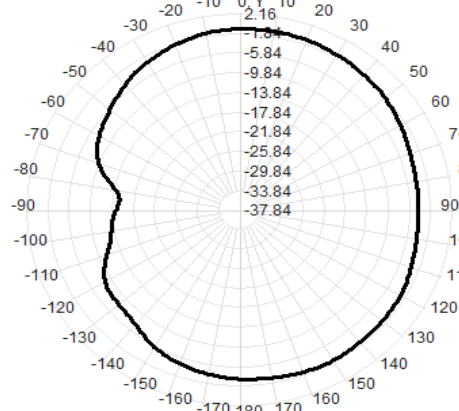
Back View



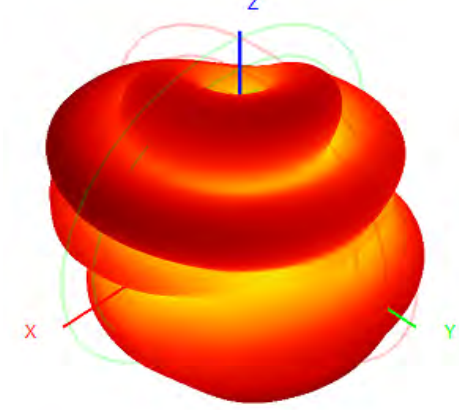
2400.0MHz Total(E2-YZ), Max= 2.16dBi



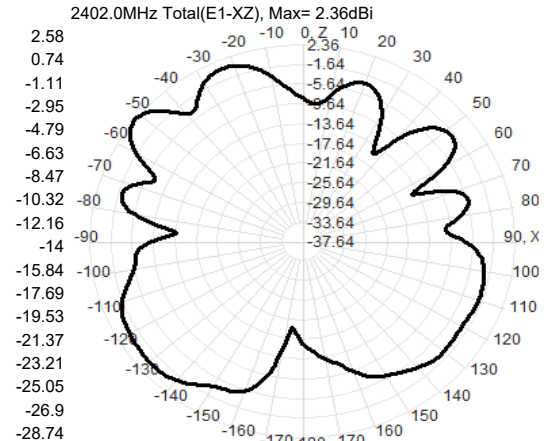
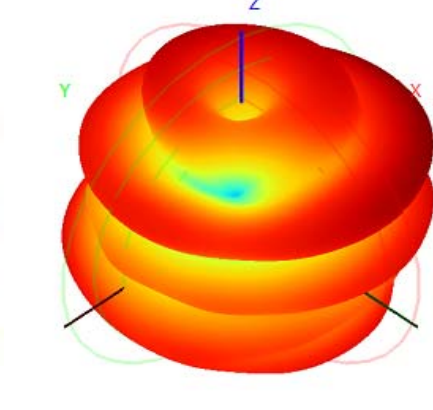
Total(H-XY), Max= -0.92dBi, CirD=14.31



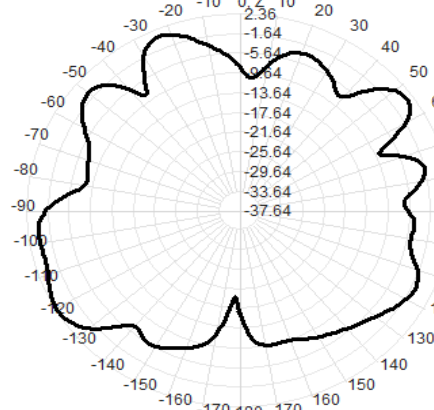
2402.0MHz H+V, Eff: 50.9%



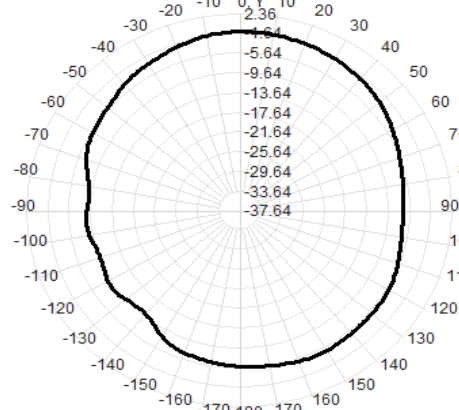
Back View



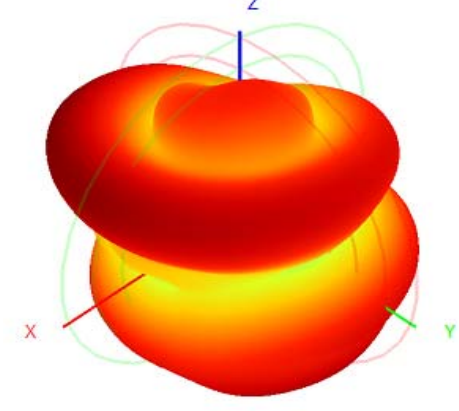
2402.0MHz Total(E2-YZ), Max= 1.93dBi



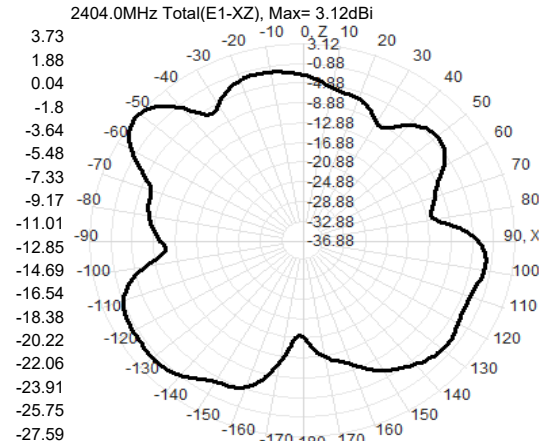
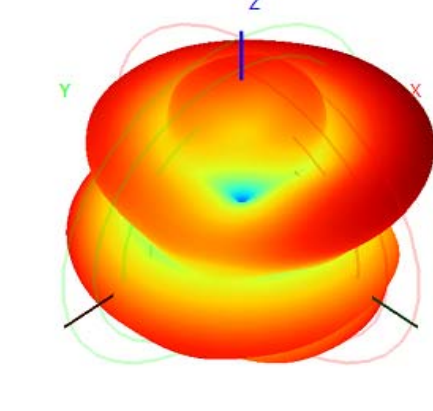
Total(H-XY), Max= -1.32dBi, CirD=9.12



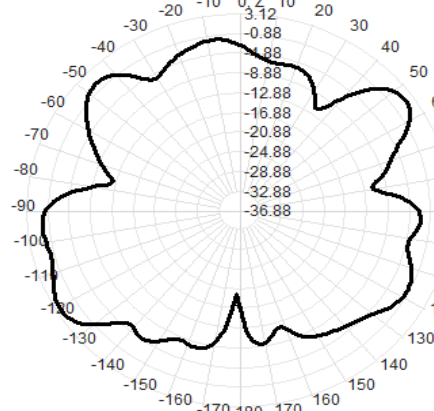
2404.0MHz H+V, Eff: 50.6%



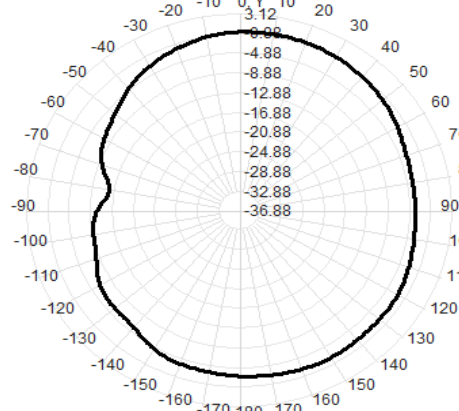
Back View



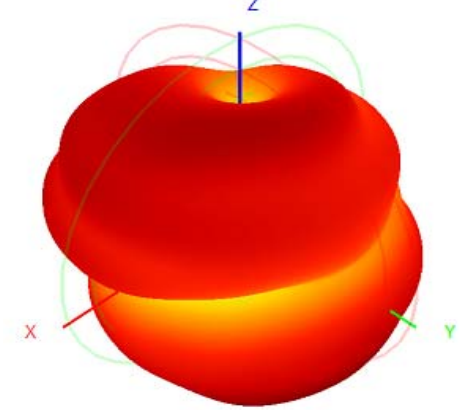
2404.0MHz Total(E2-YZ), Max= 2.15dBi



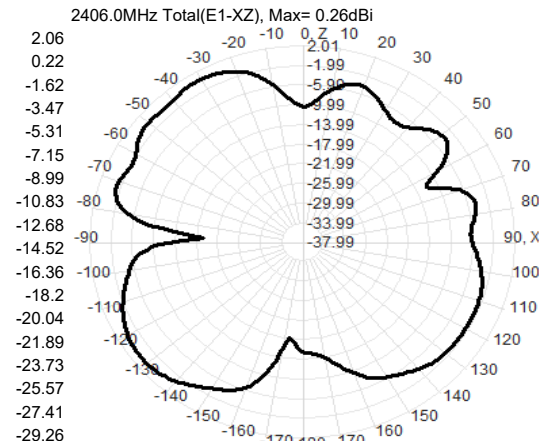
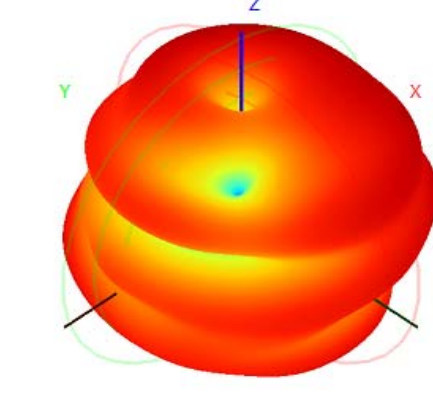
Total(H-XY), Max= -0.53dBi, CirD=11.54



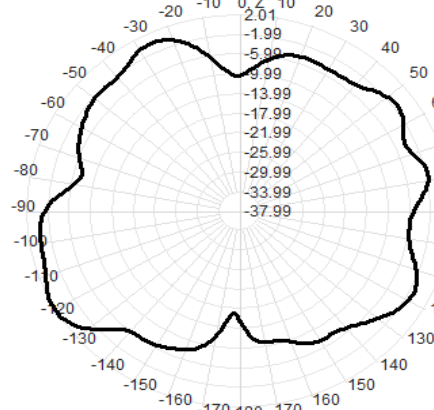
2406.0MHz H+V, Eff: 50.5%



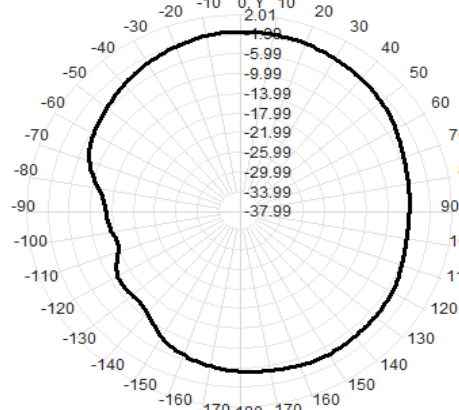
Back View



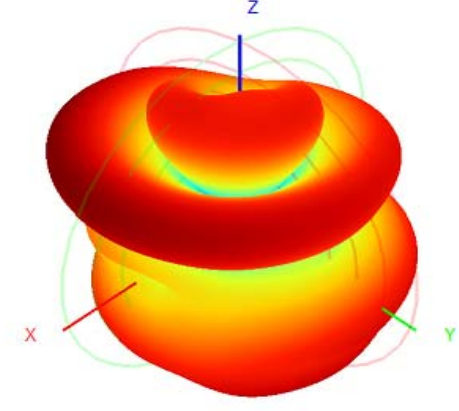
2406.0MHz Total(E2-YZ), Max= 2.01dBi



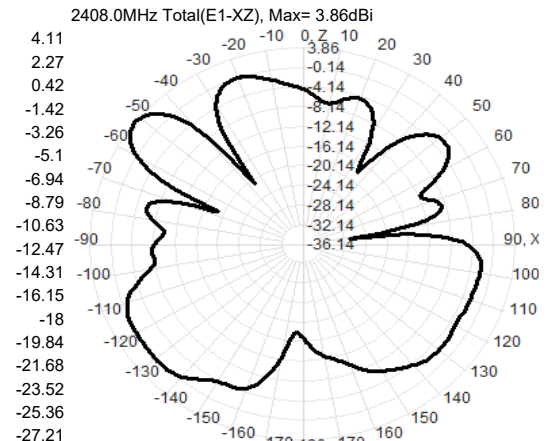
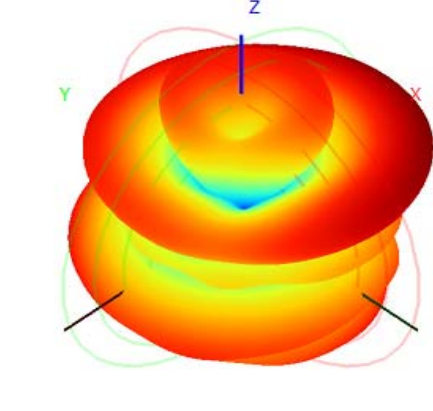
Total(H-XY), Max= -1.47dBi, CirD=12.74



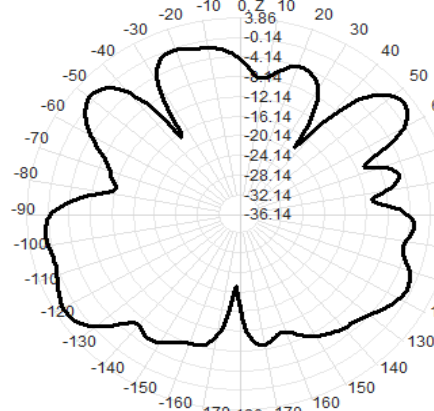
2408.0MHz H+V, Eff: 50.4%



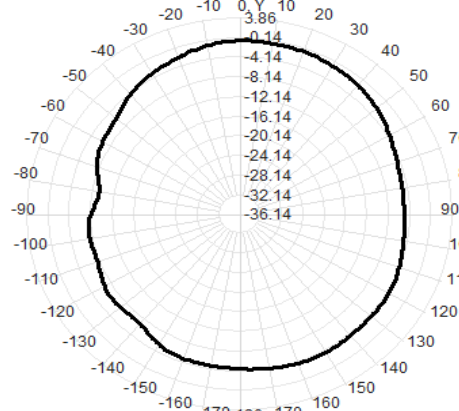
Back View



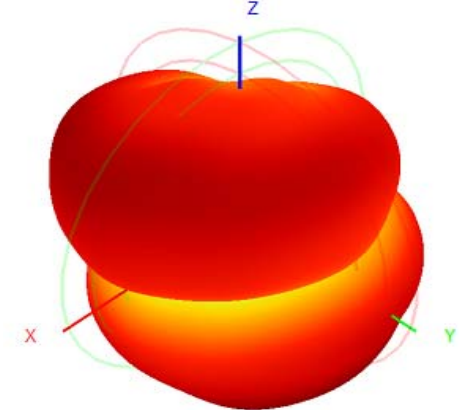
2408.0MHz Total(E2-YZ), Max= 2.03dBi



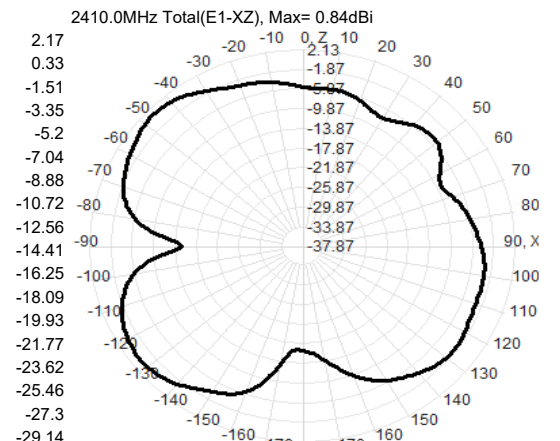
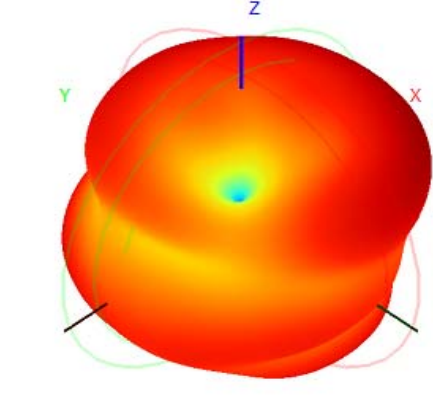
Total(H-XY), Max= -0.84dBi, CirD=8.56



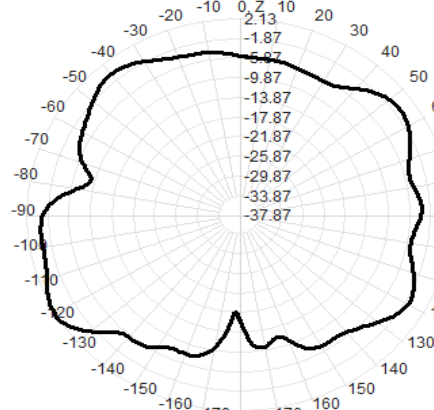
2410.0MHz H+V, Eff: 50.6%



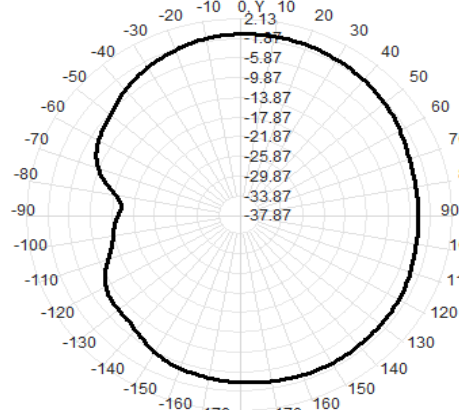
Back View



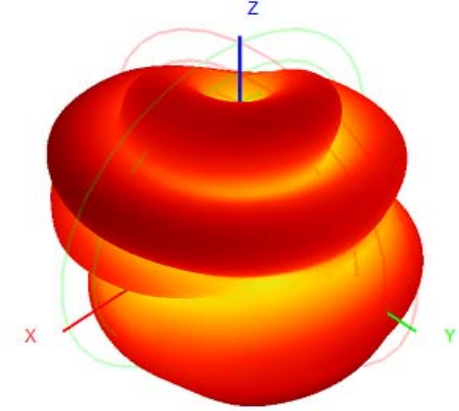
2410.0MHz Total(E2-YZ), Max= 2.13dBi



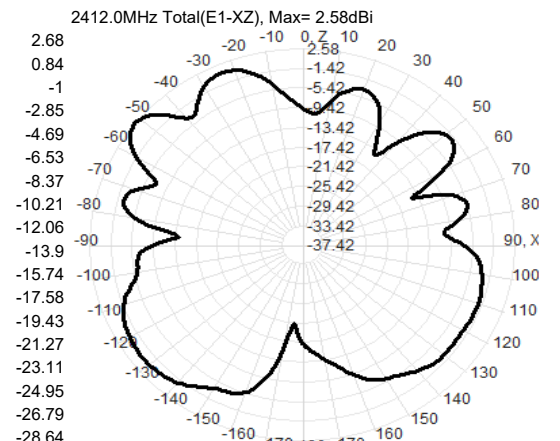
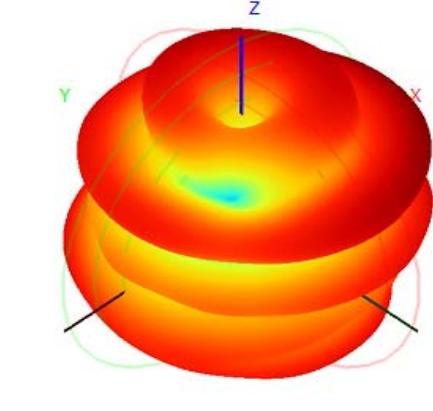
Total(H-XY), Max= -0.97dBi, CirD=14.62



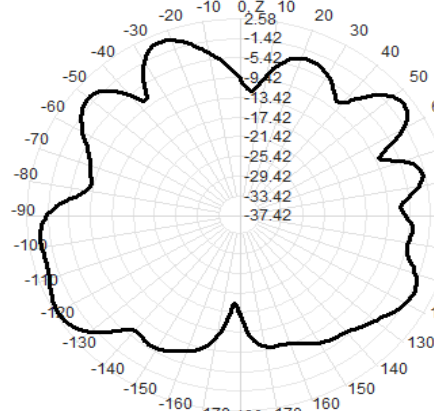
2412.0MHz H+V, Eff: 51.2%



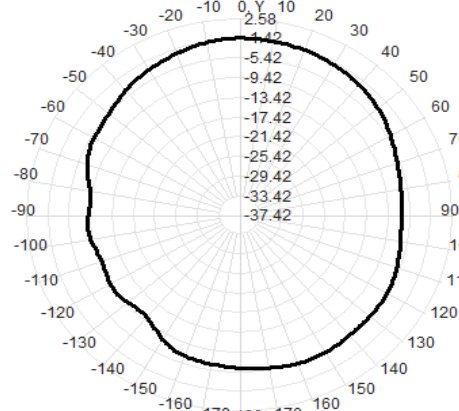
Back View



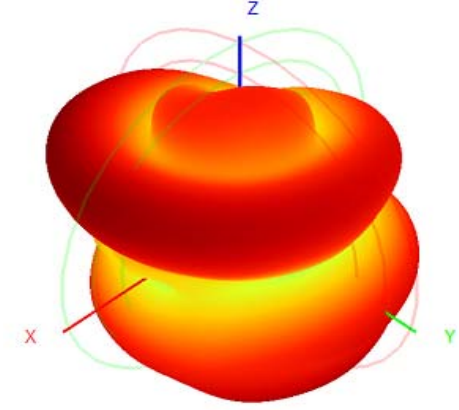
2412.0MHz Total(E2-YZ), Max= 1.91dBi



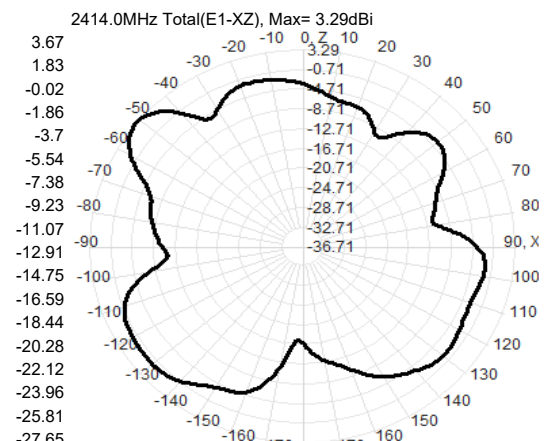
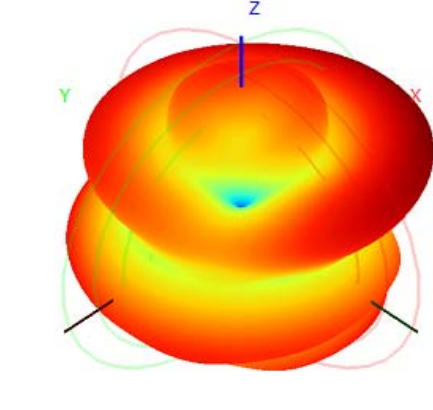
Total(H-XY), Max= -1.38dBi, CirD=9.18



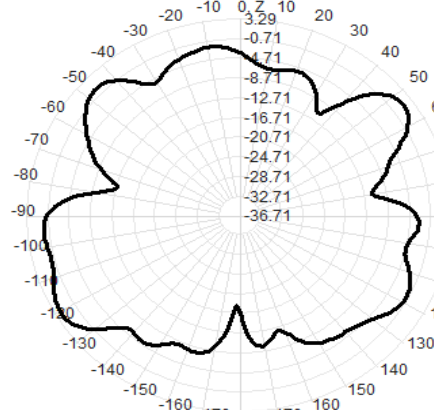
2414.0MHz H+V, Eff: 51.6%



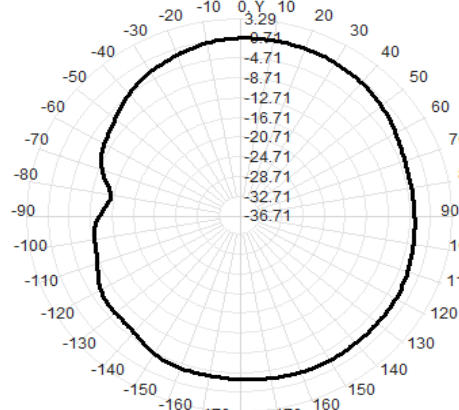
Back View



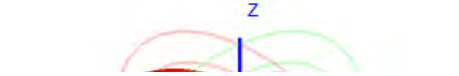
2414.0MHz Total(E2-YZ), Max= 2.18dBi



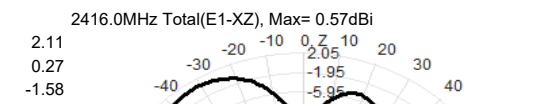
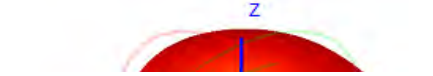
Total(H-XY), Max= -0.60dBi, CirD=11.58



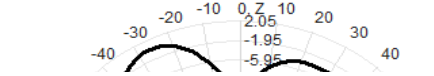
2416.0MHz H+V, Eff: 51.7%



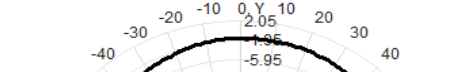
Back View

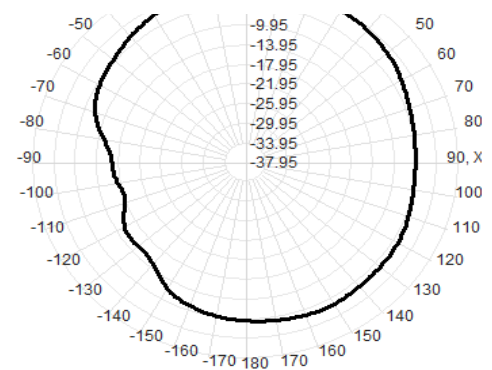
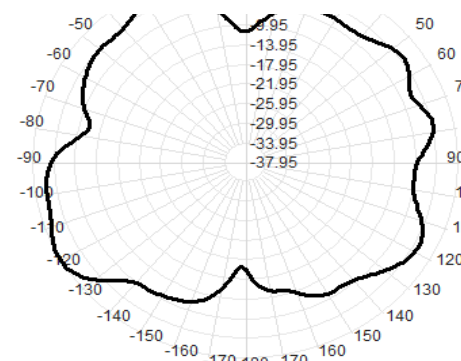
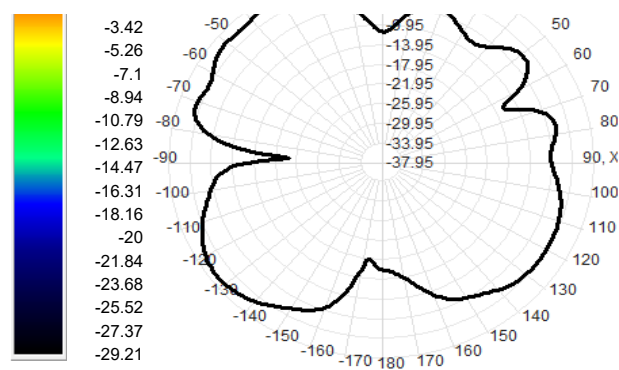
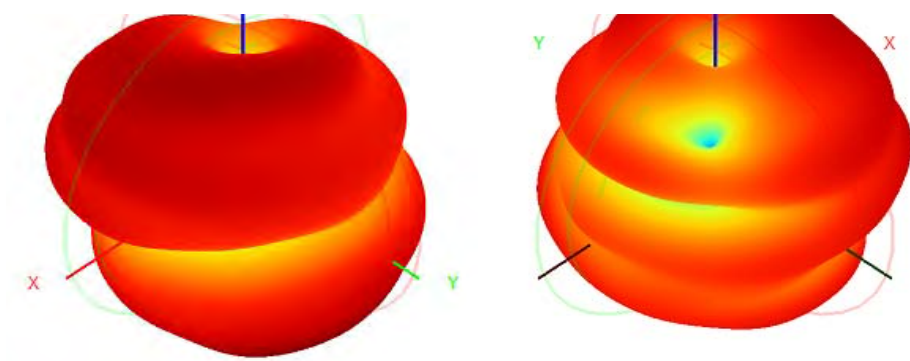


2416.0MHz Total(E2-YZ), Max= 2.05dBi



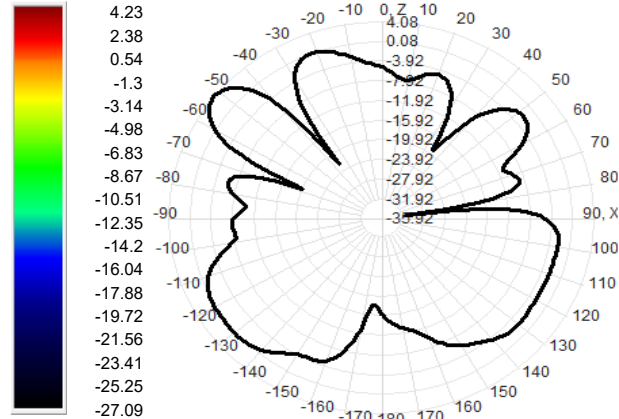
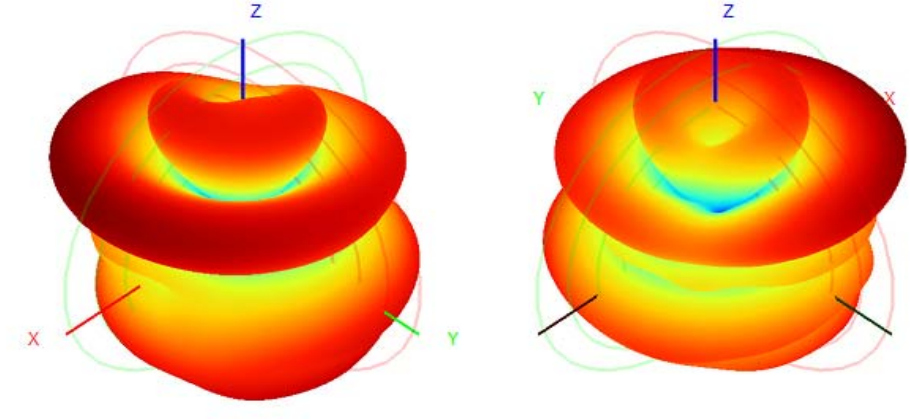
Total(H-XY), Max= -1.49dBi, CirD=12.75



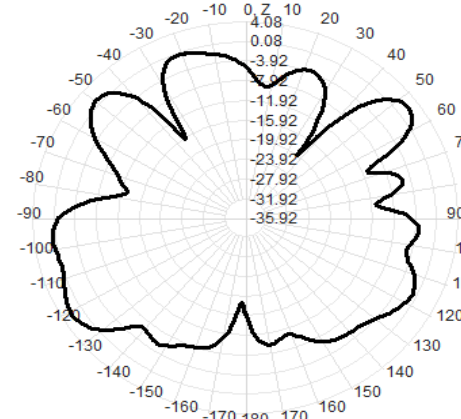


2418.0MHz H+V, Eff: 51.6%

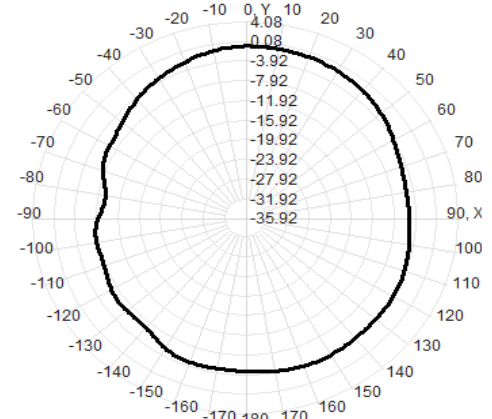
Back View



2418.0MHz Total(E1-XZ), Max= 4.08dBi

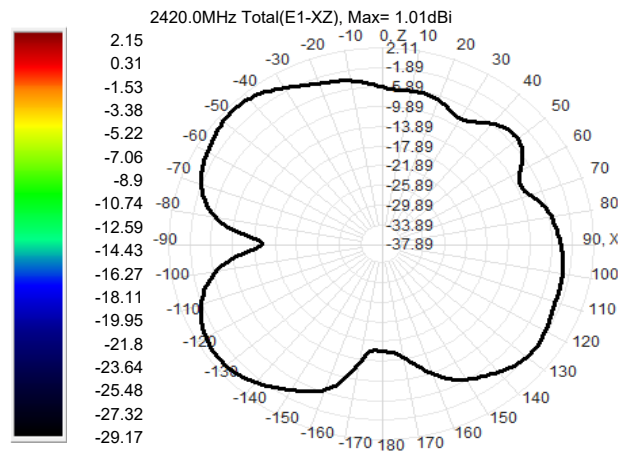
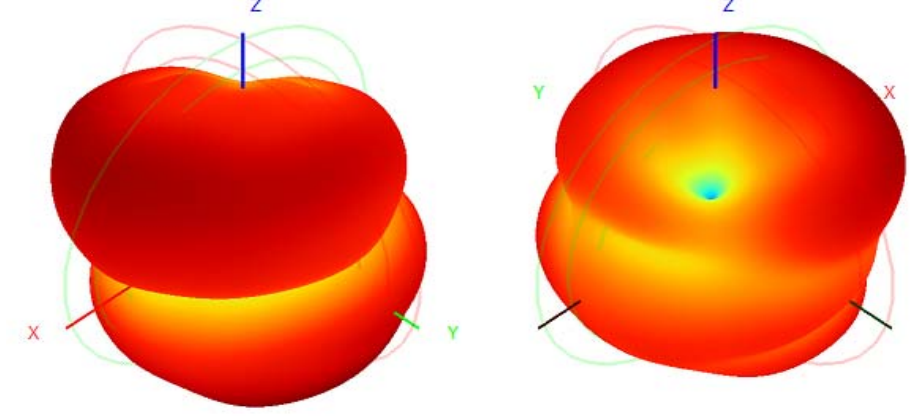


Total(H-XY), Max= -0.90dBi, CirD=8.38

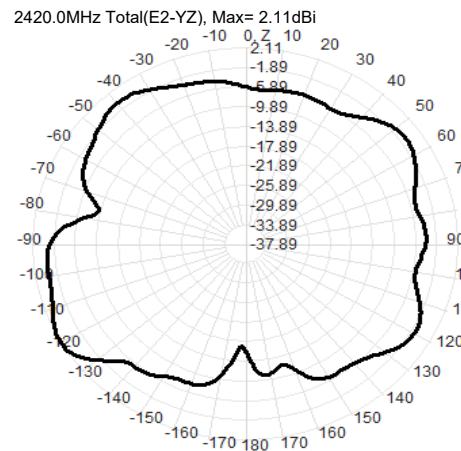


2420.0MHz H+V, Eff: 51.3%

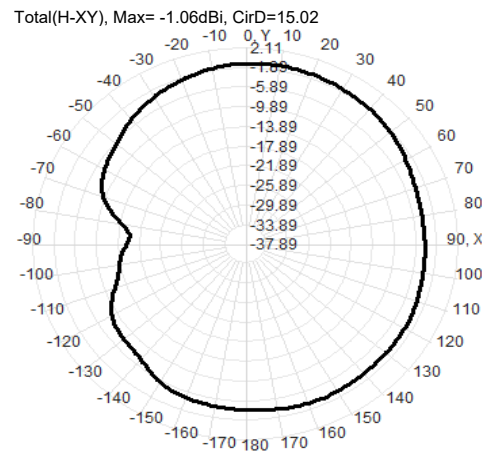
Back View



2420.0MHz Total(E1-XZ), Max= 1.01dBi

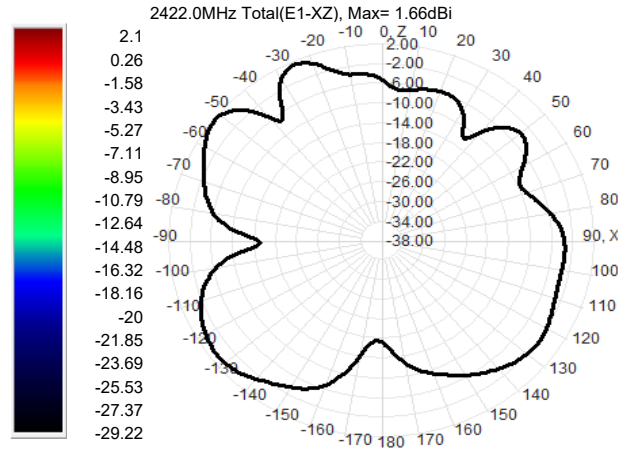
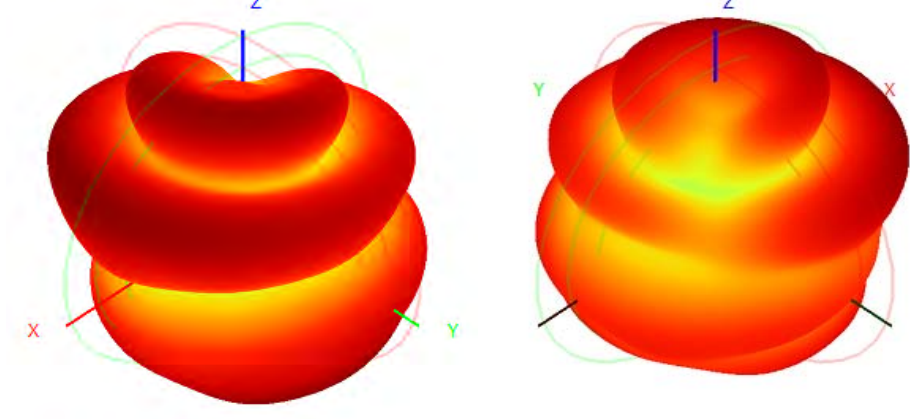


Total(H-XY), Max= -1.06dBi, CirD=15.02

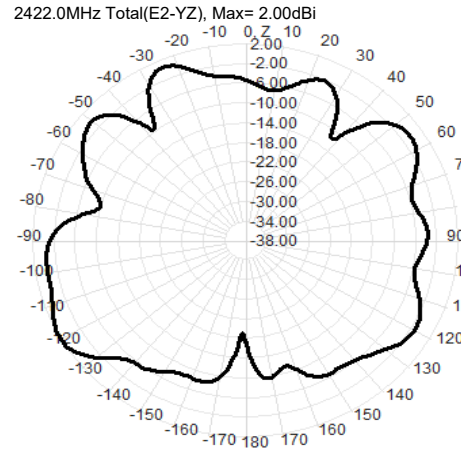


2422.0MHz H+V, Eff: 50.4%

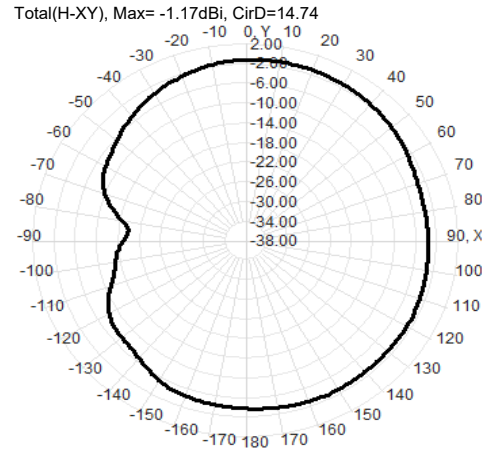
Back View



2422.0MHz Total(E1-XZ), Max= 1.66dBi

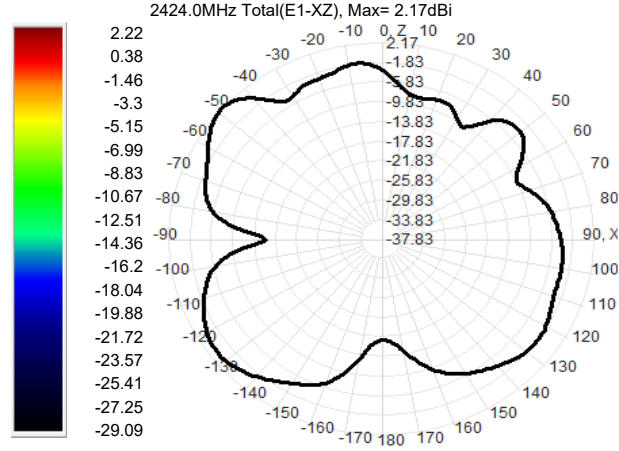
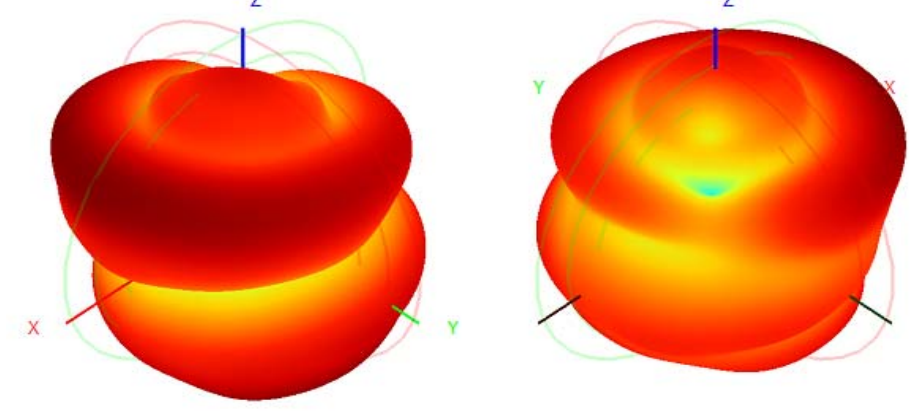


Total(H-XY), Max= -1.17dBi, CirD=14.74

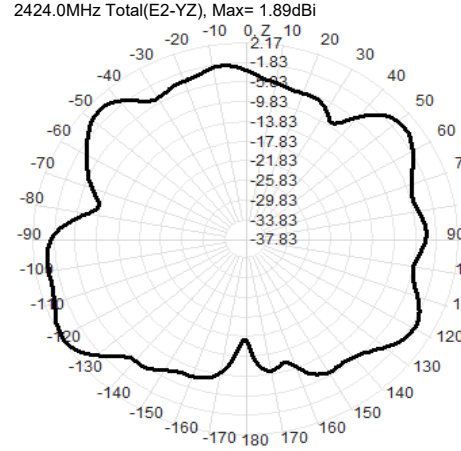


2424.0MHz H+V, Eff: 49.8%

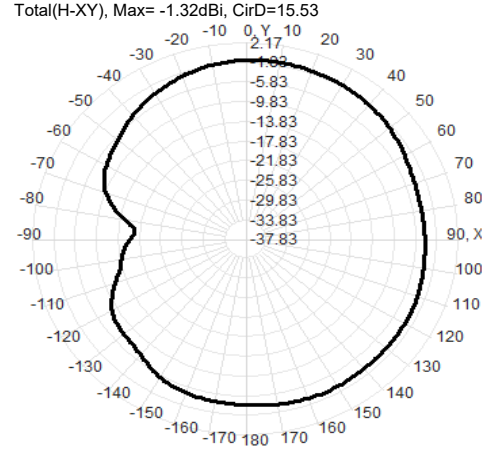
Back View



2424.0MHz Total(E1-XZ), Max= 2.17dBi

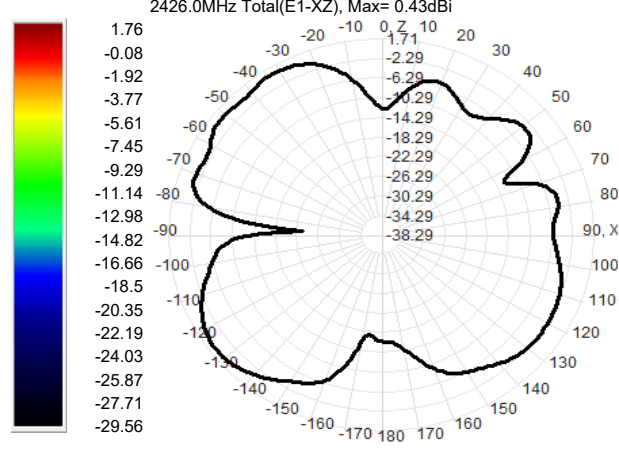
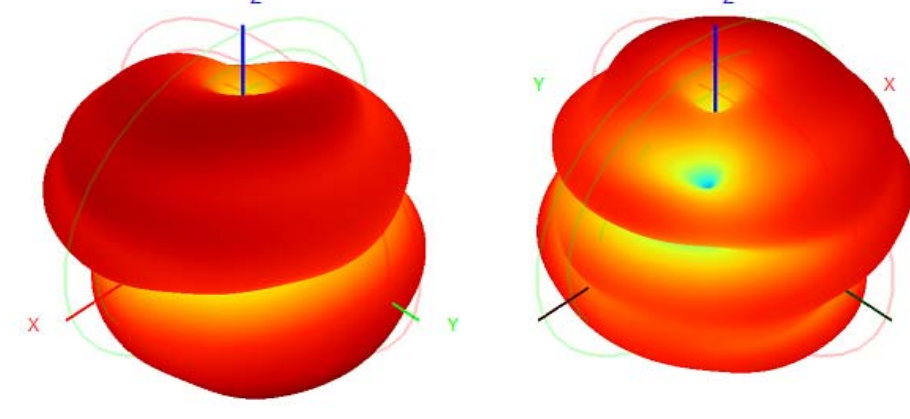


Total(H-XY), Max= -1.32dBi, CirD=15.53

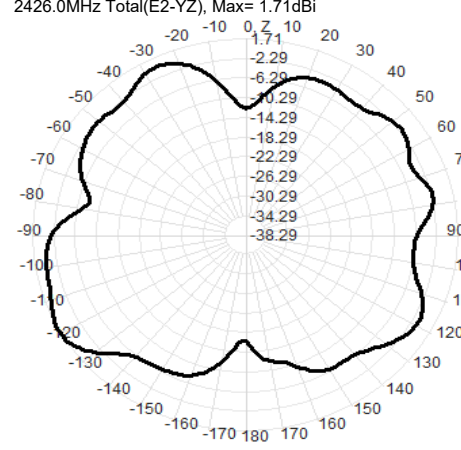


2426.0MHz H+V, Eff: 49.3%

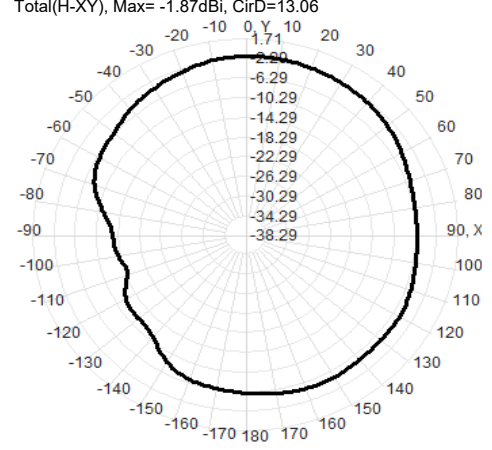
Back View



2426.0MHz Total(E1-XZ), Max= 0.43dBi

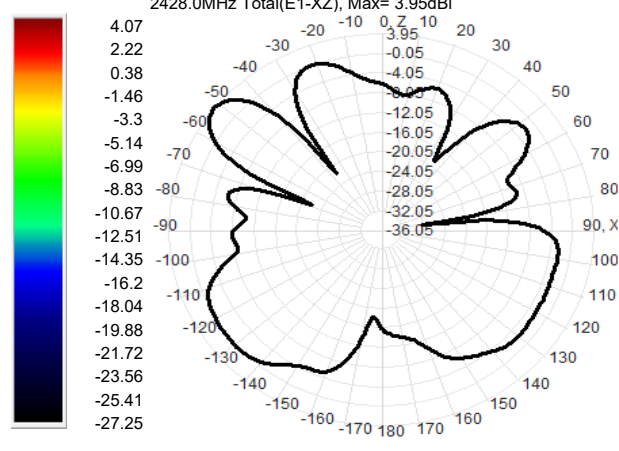
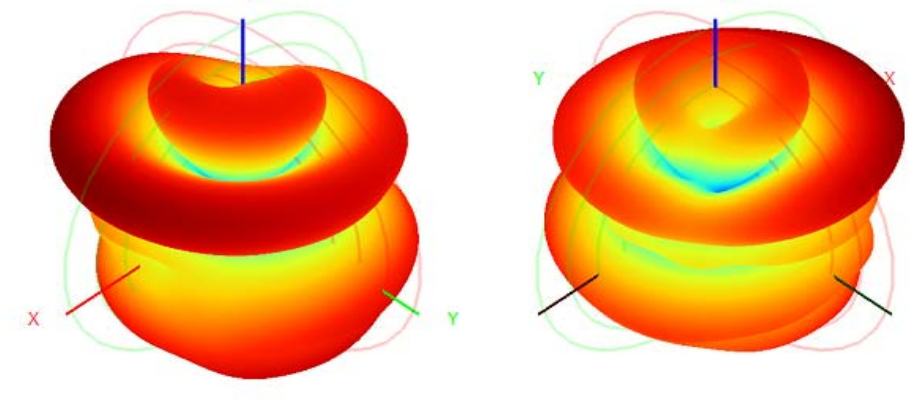


Total(H-XY), Max= -1.87dBi, CirD=13.06

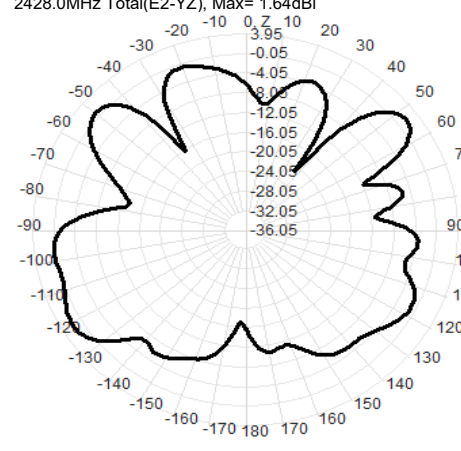


2428.0MHz H+V, Eff: 48.9%

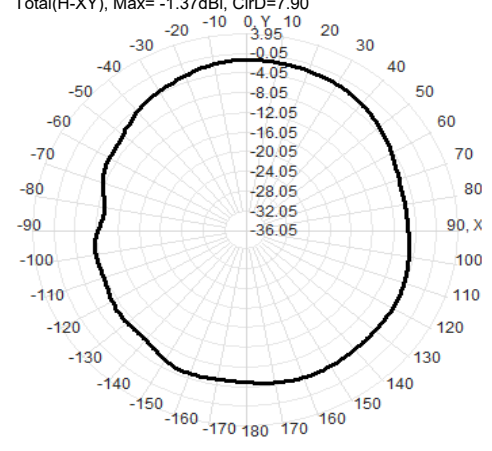
Back View



2428.0MHz Total(E1-XZ), Max= 3.95dBi

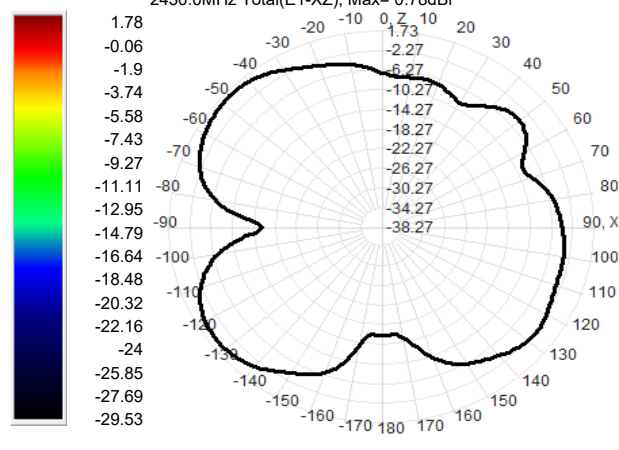
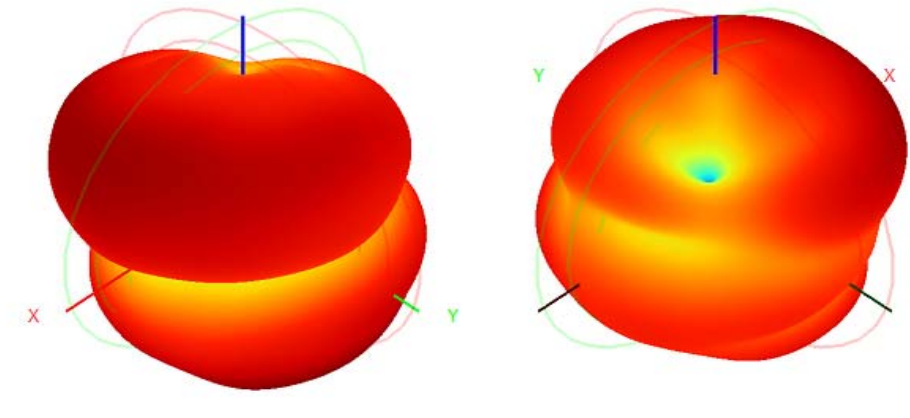


Total(H-XY), Max= -1.37dBi, CirD=7.90

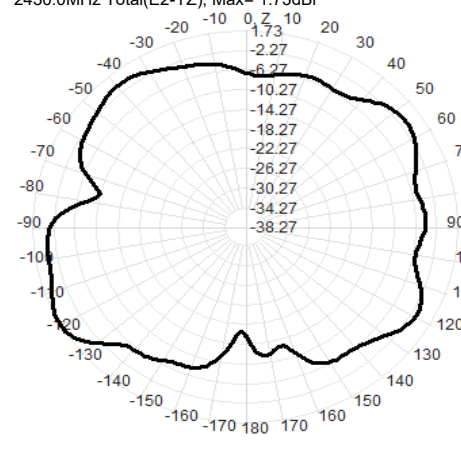


2430.0MHz H+V, Eff: 48.6%

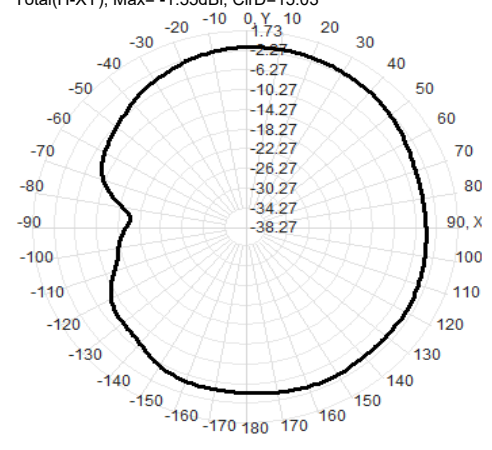
Back View



2430.0MHz Total(E1-XZ), Max= 0.78dBi

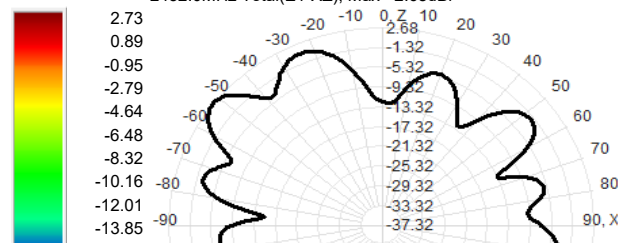
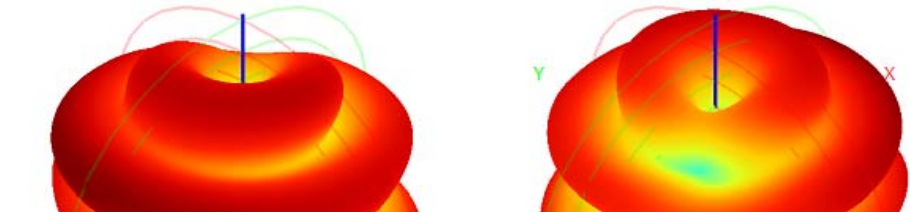


Total(H-XY), Max= -1.55dBi, CirD=15.03

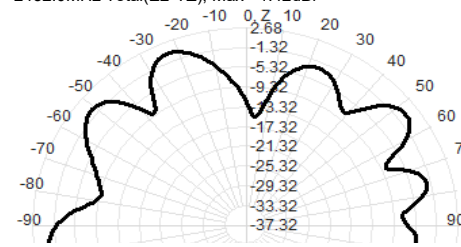


2432.0MHz H+V, Eff: 48.8%

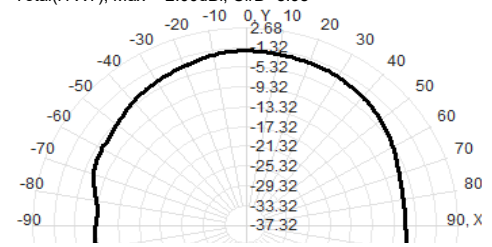
Back View

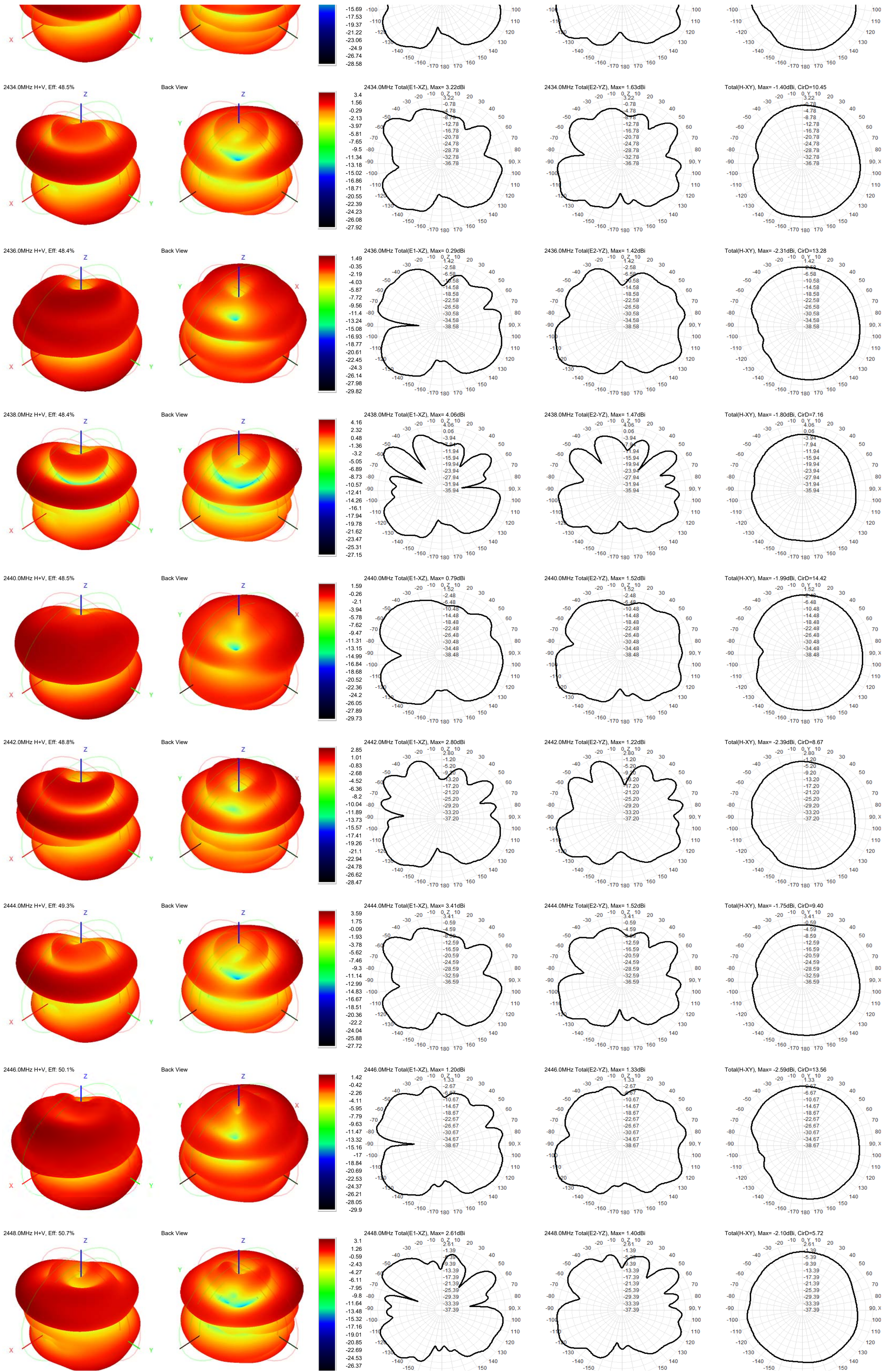


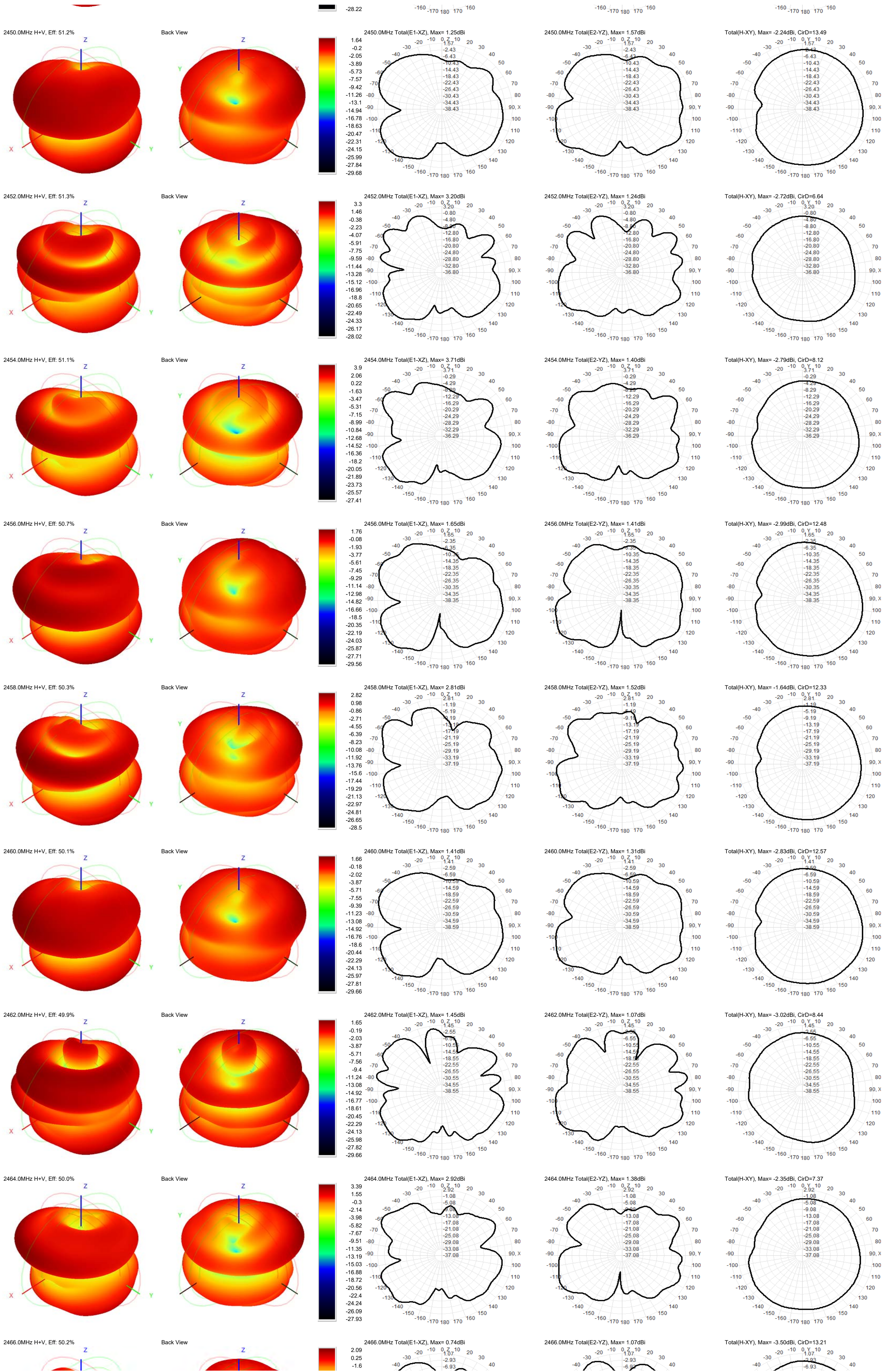
2432.0MHz Total(E1-XZ), Max= 2.68dBi

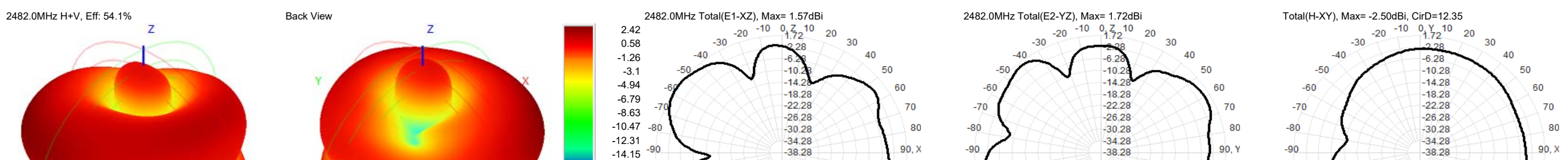
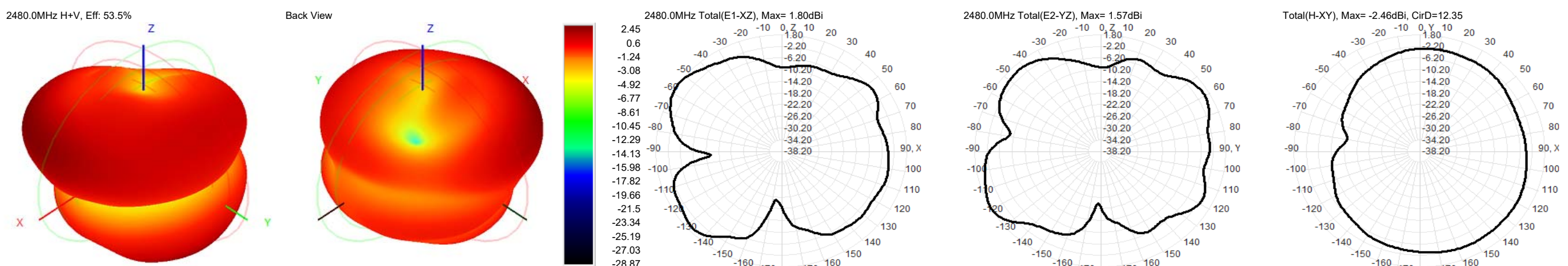
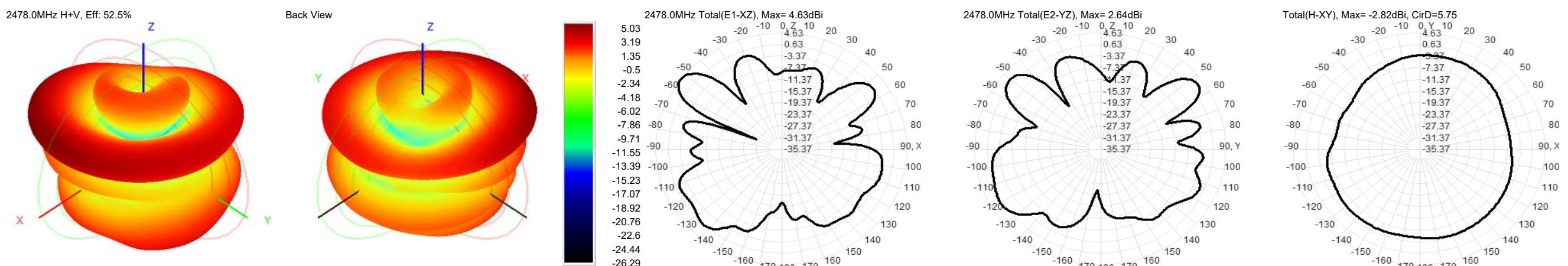
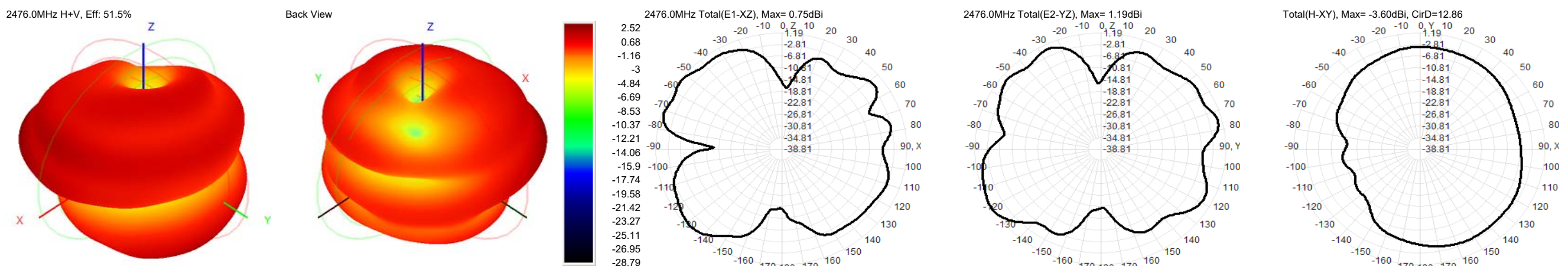
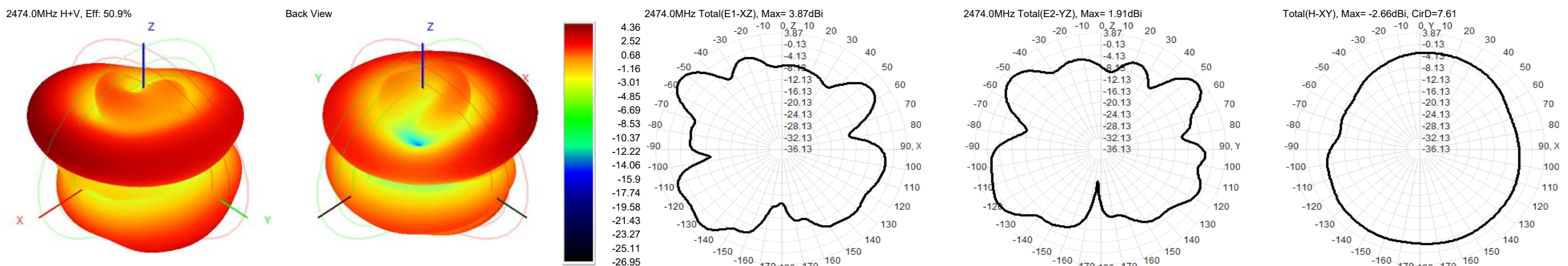
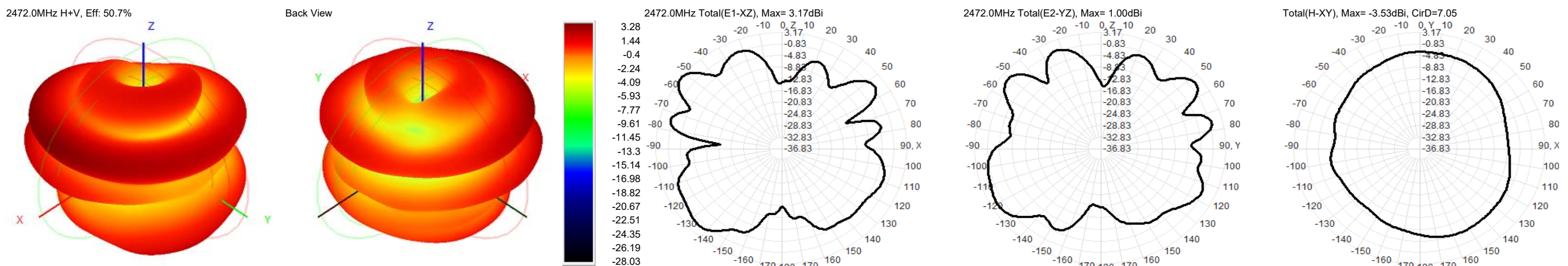
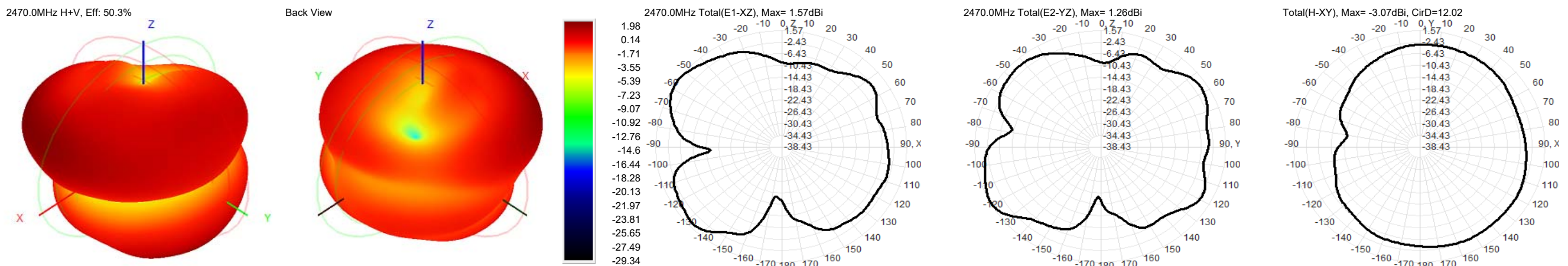
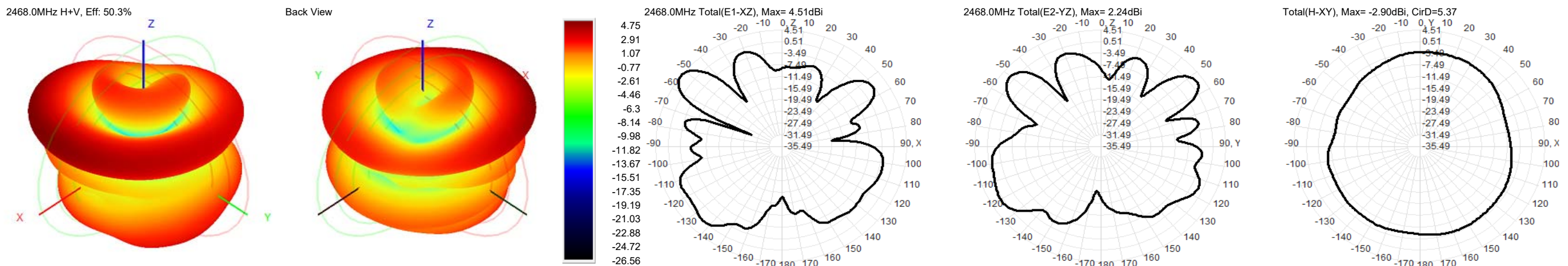
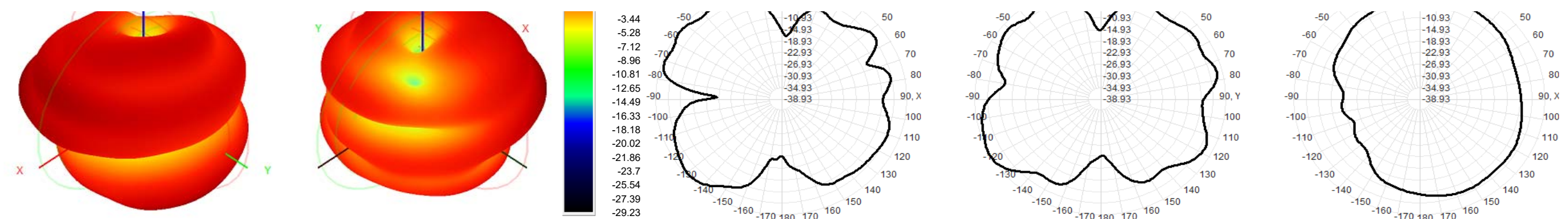


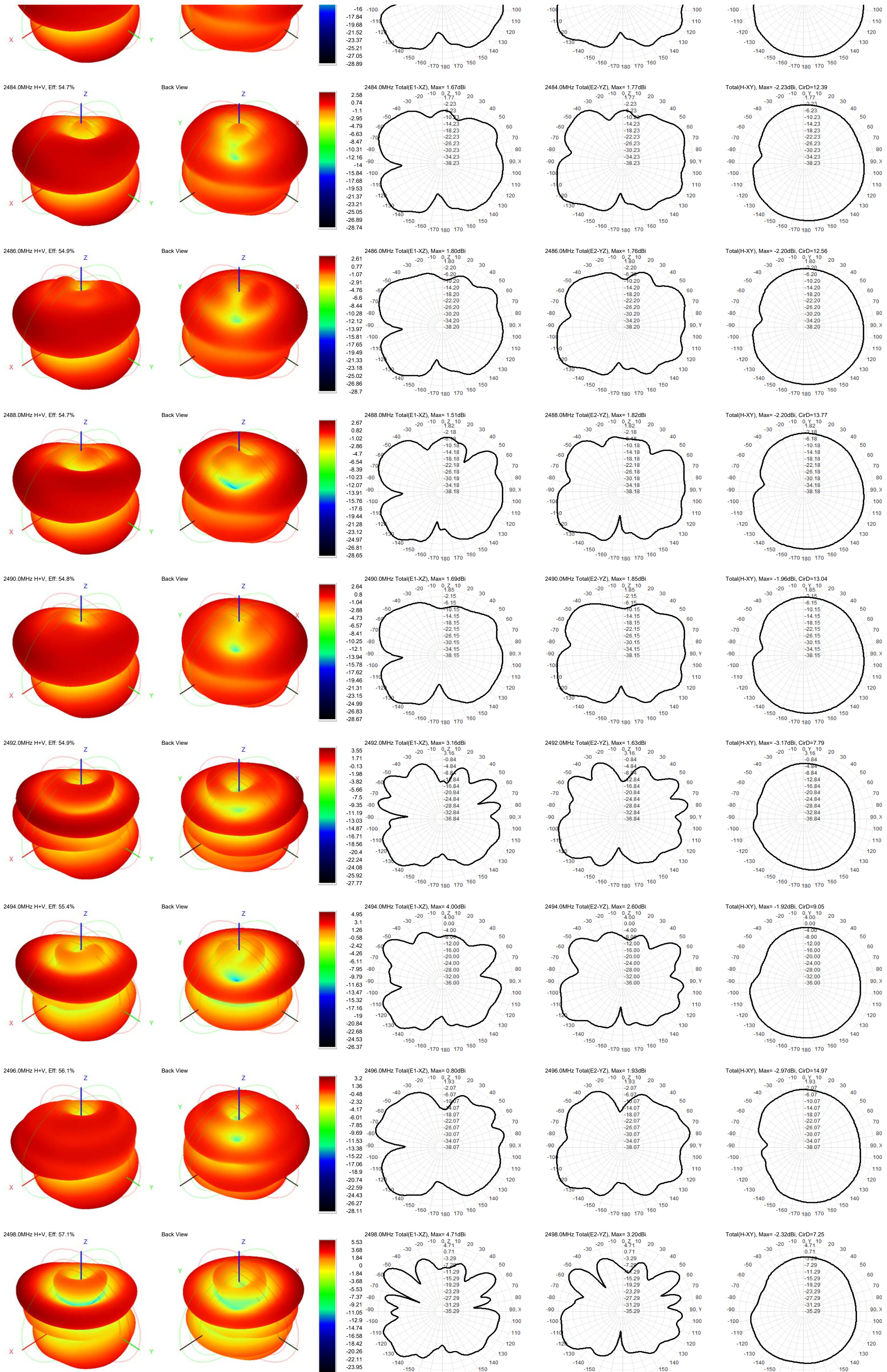
Total(H-XY), Max= -2.00dBi, CirD=8.98

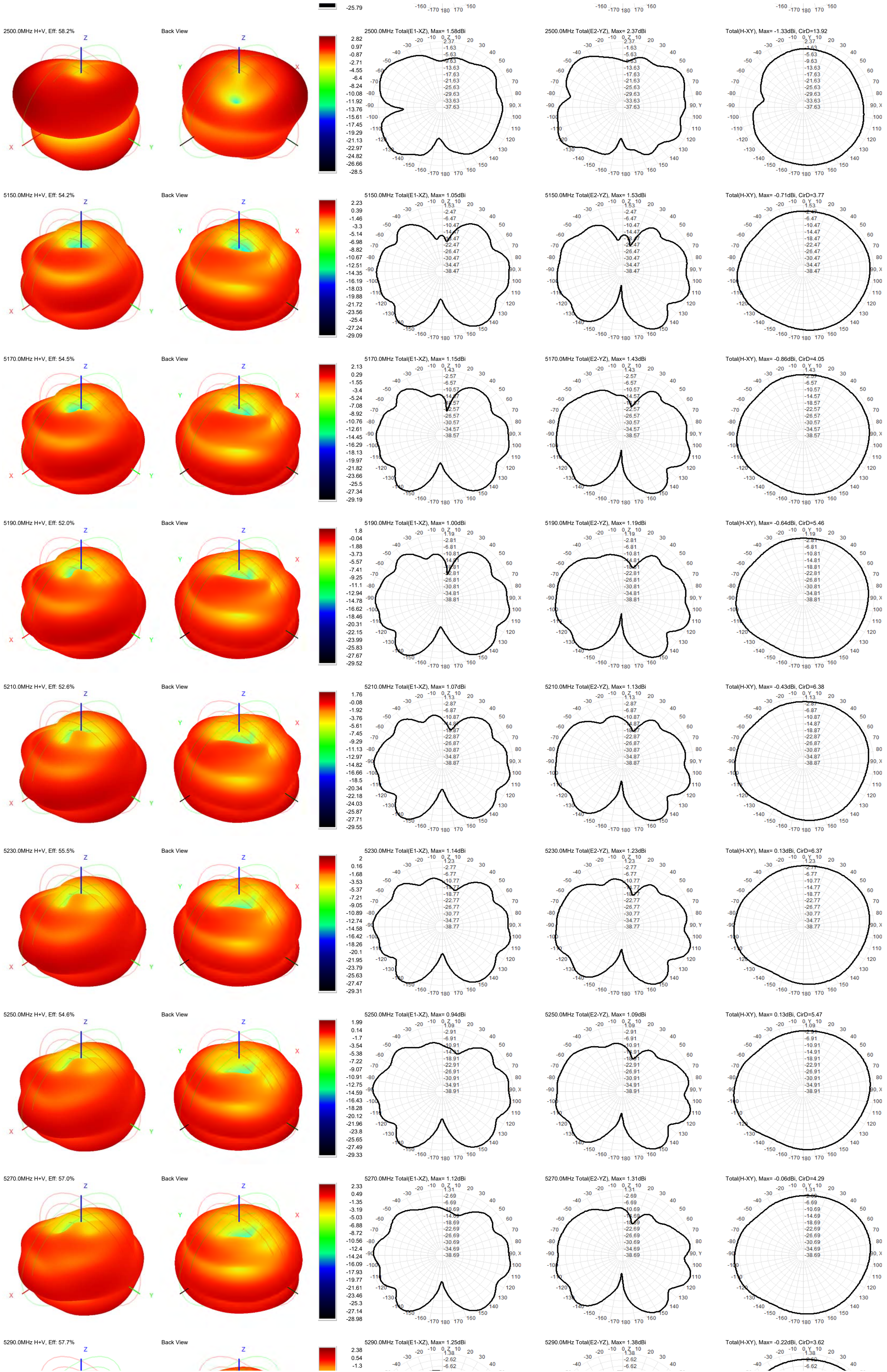


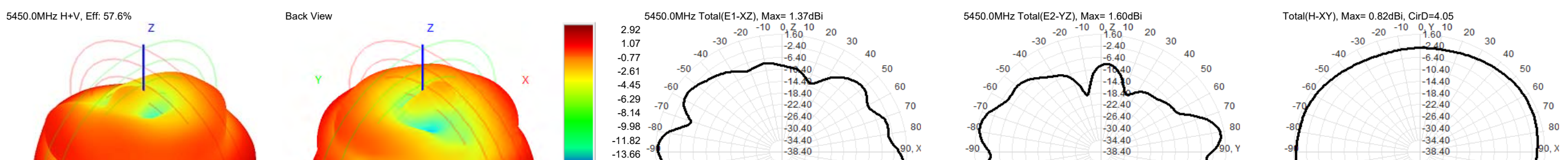
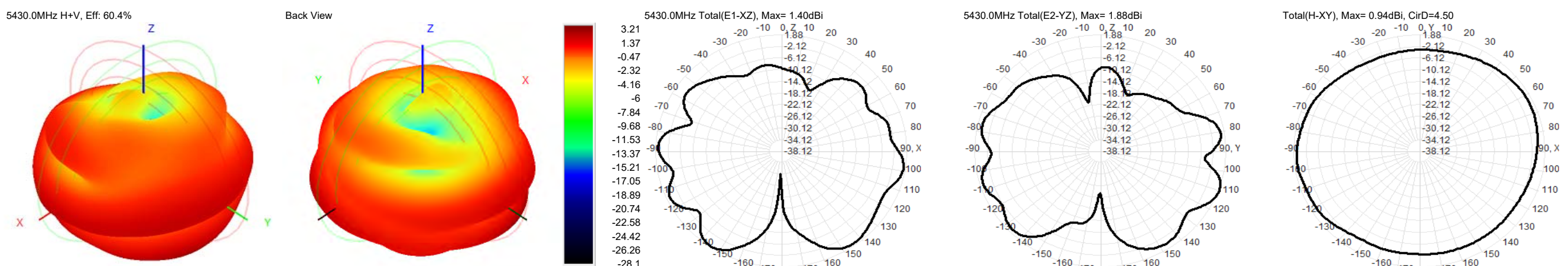
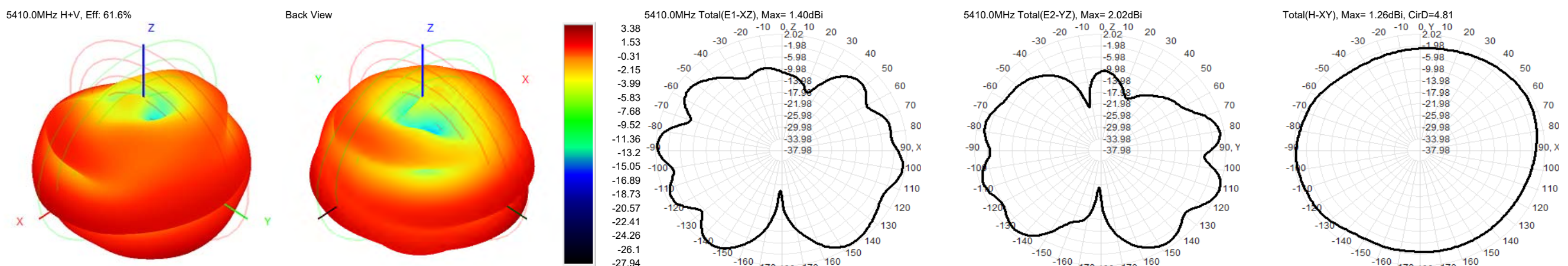
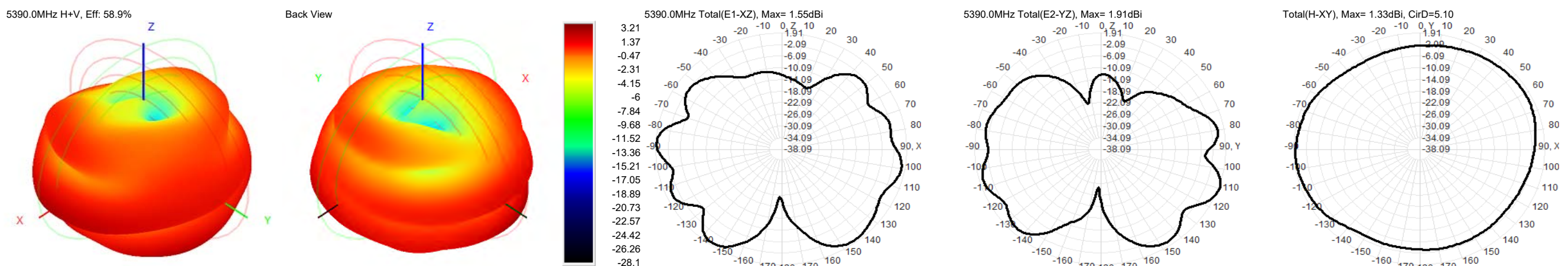
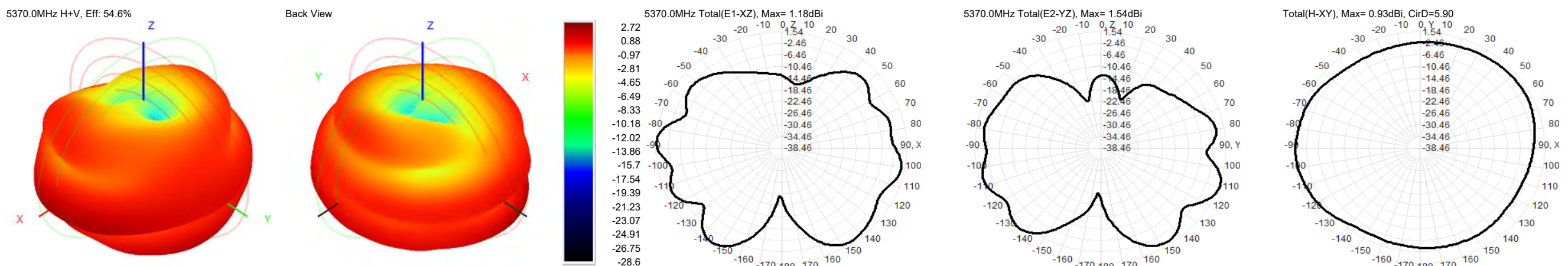
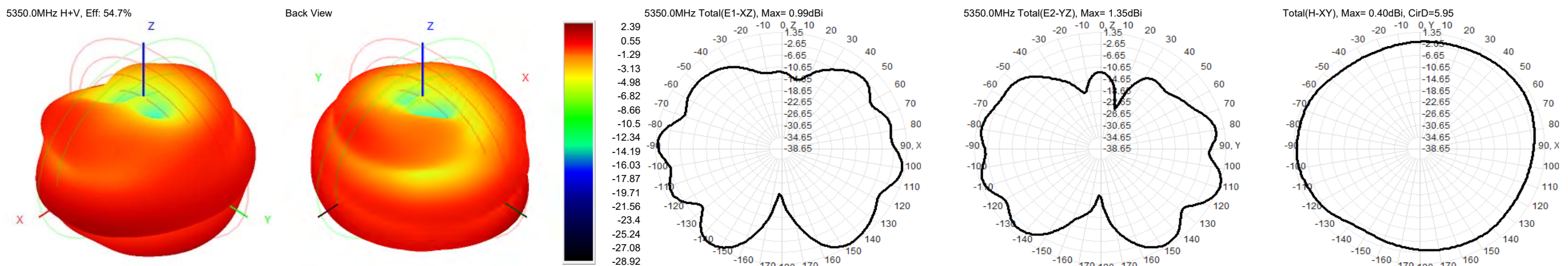
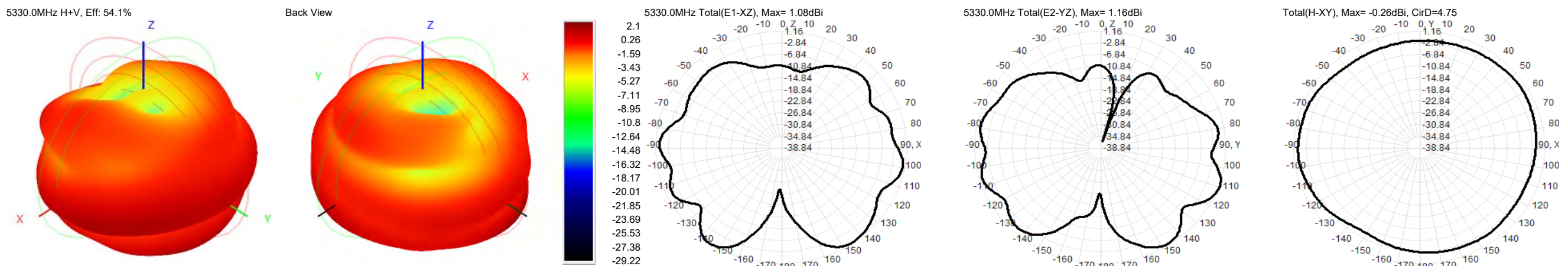
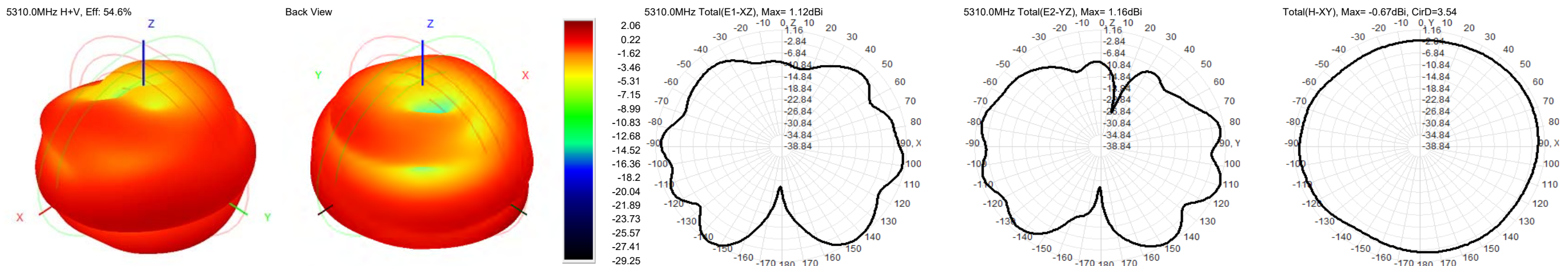
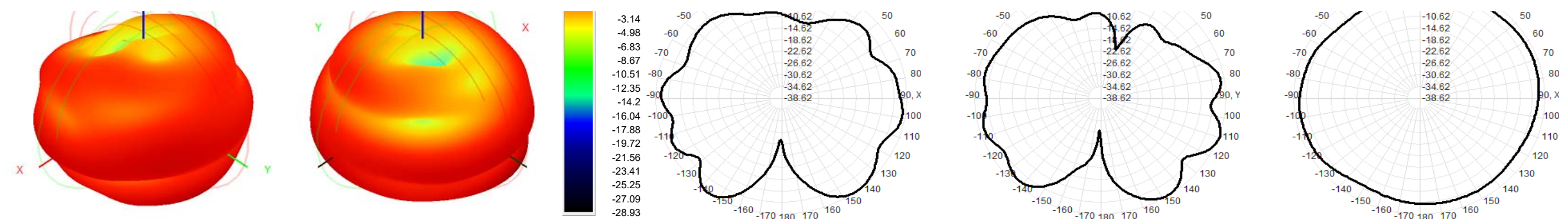


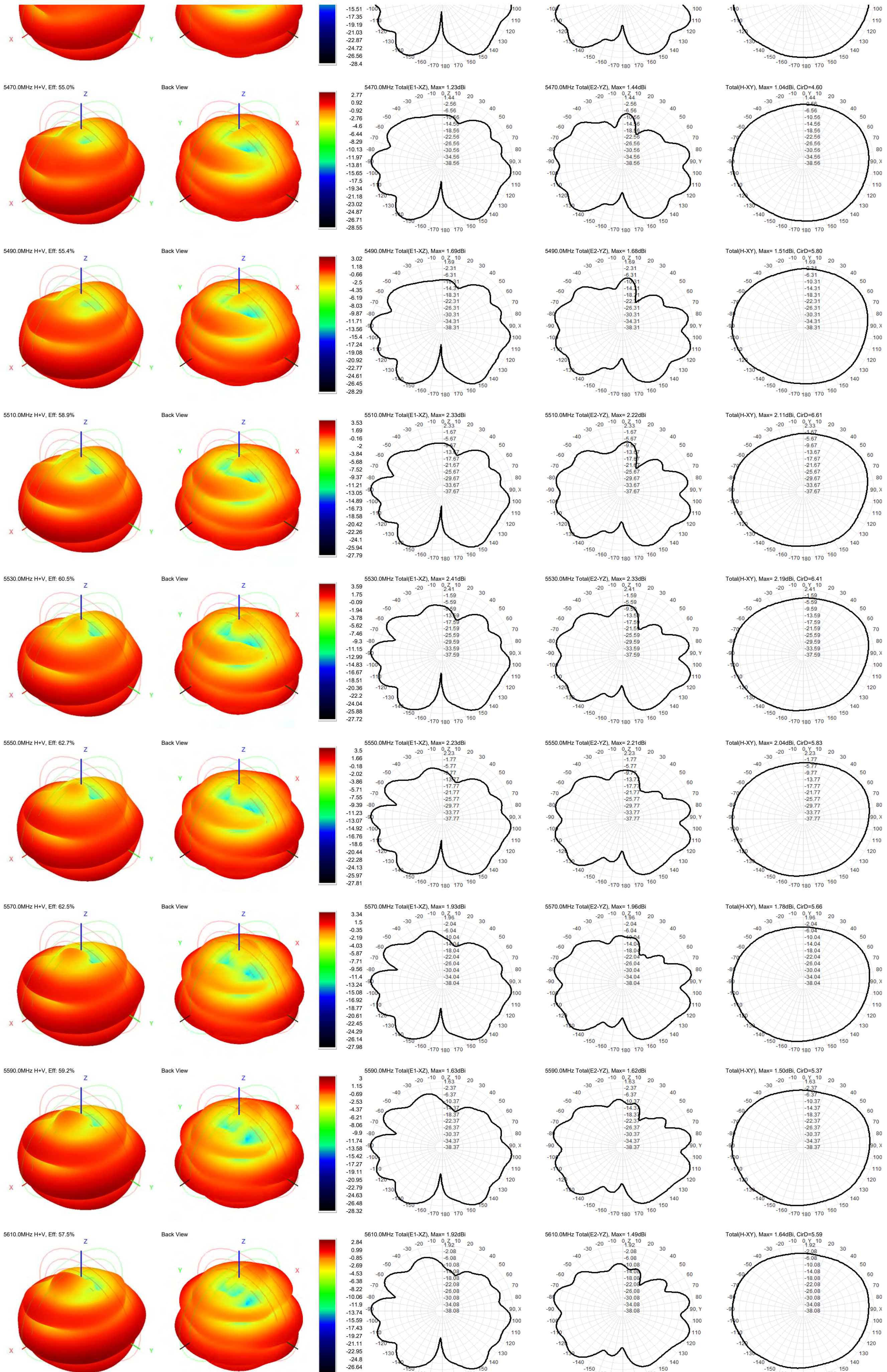


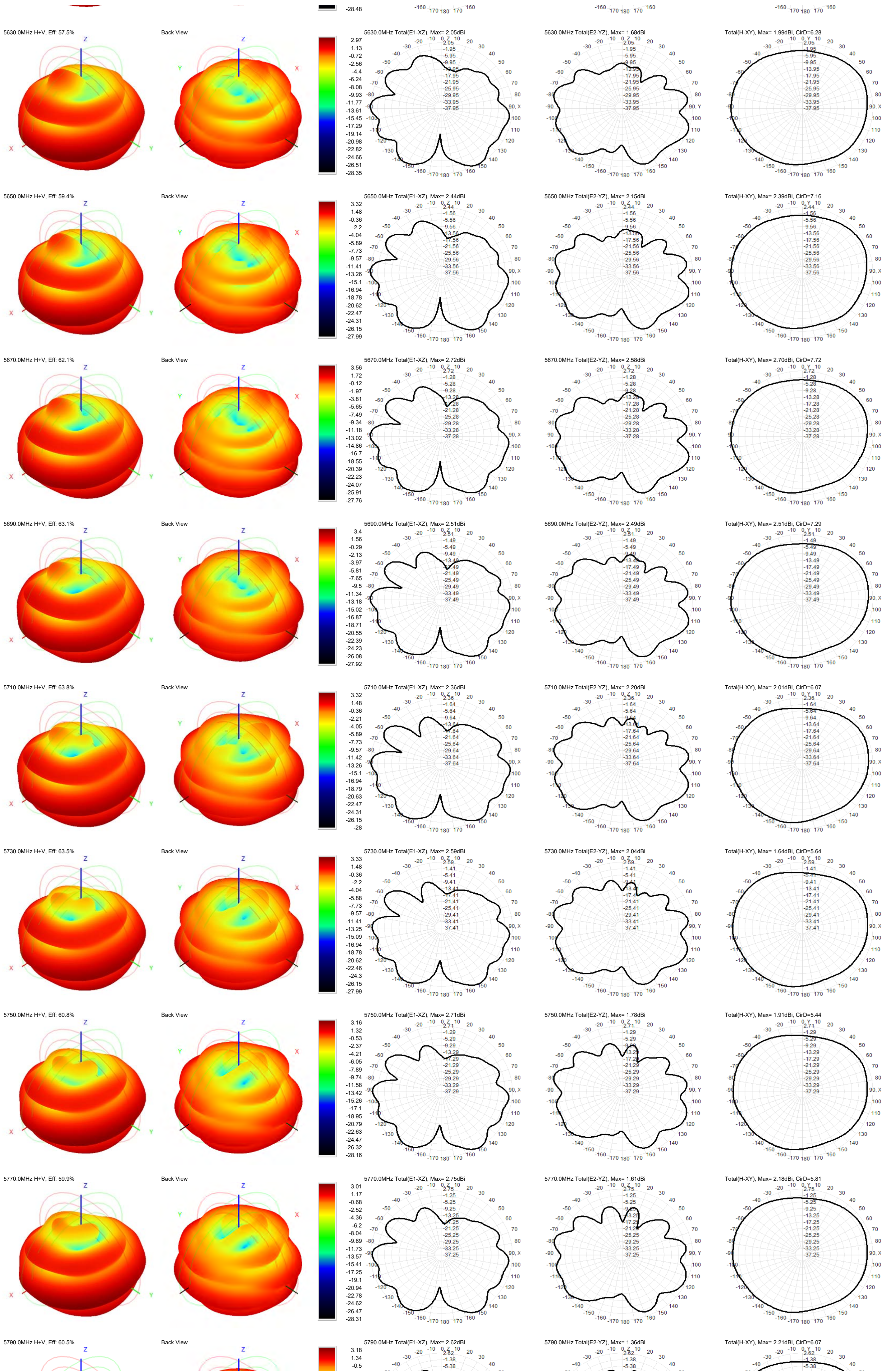


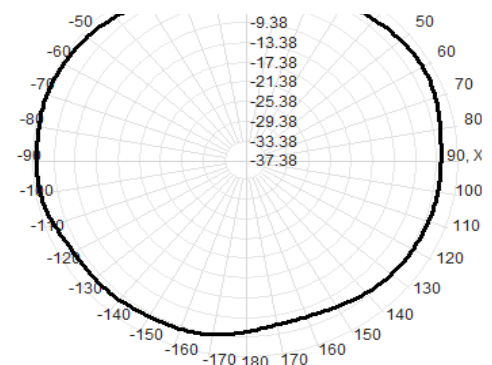
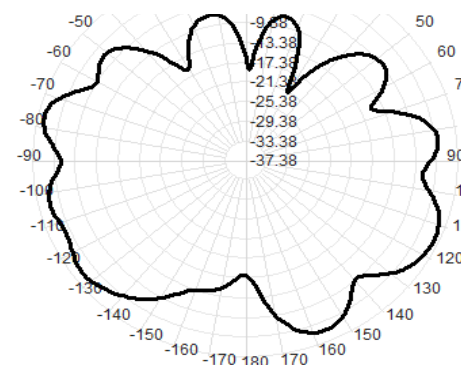
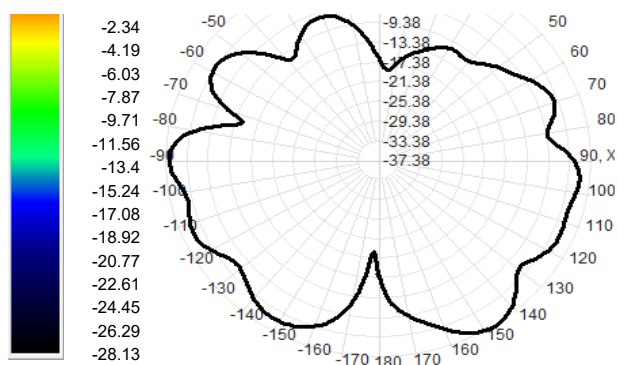
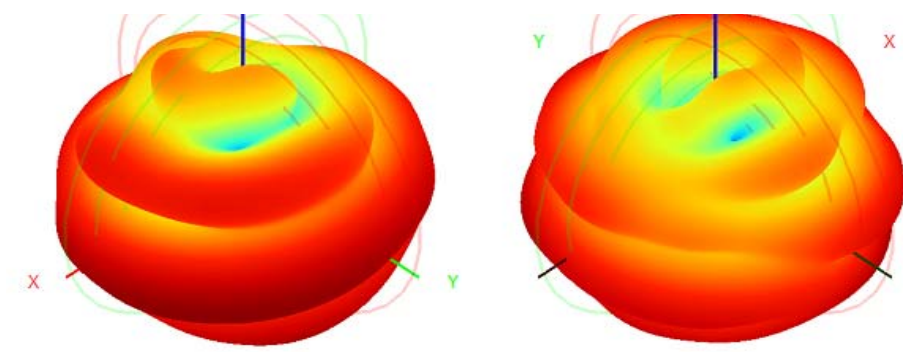






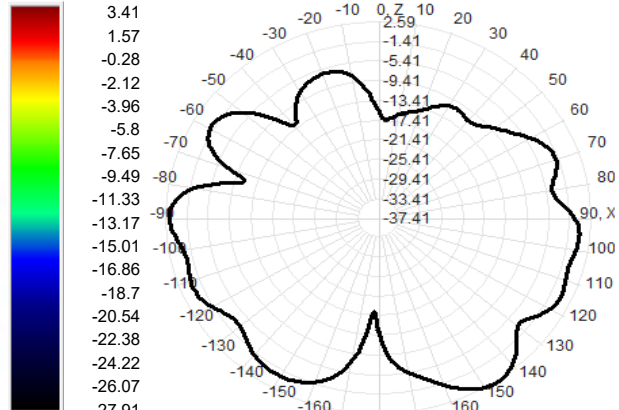
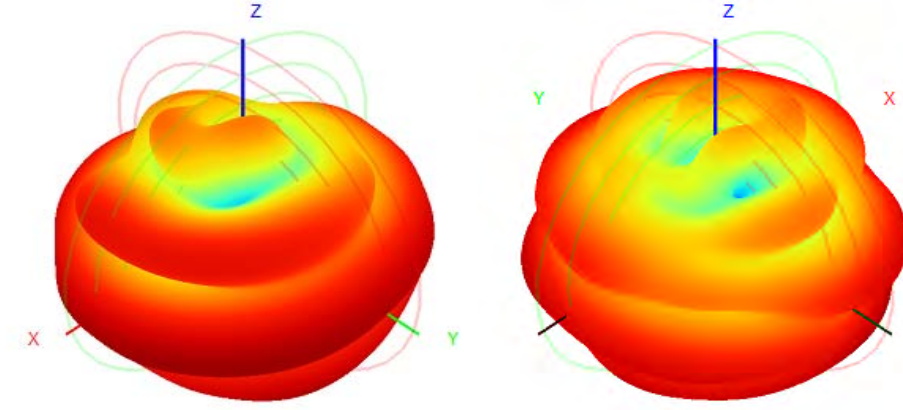






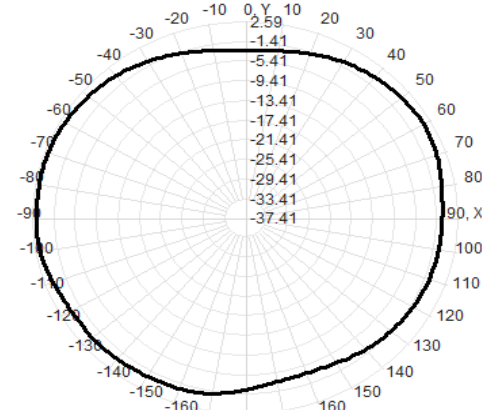
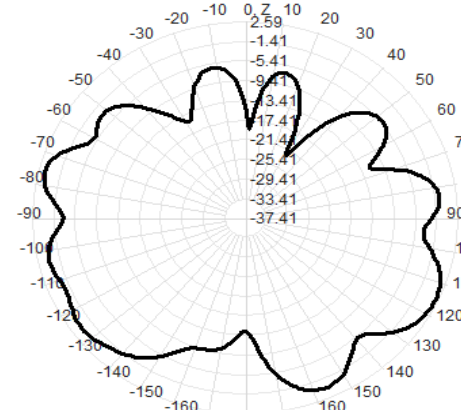
5810.0MHz H+V, Eff: 61.8%

Back View



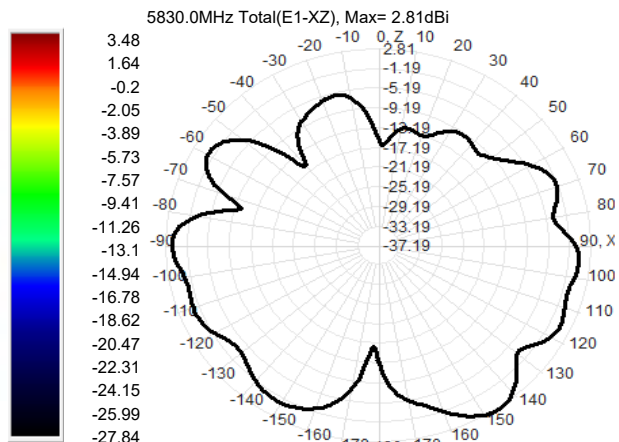
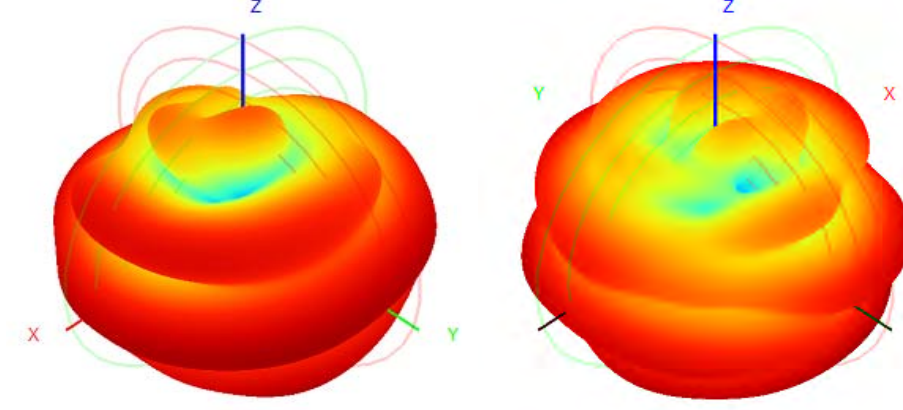
5810.0MHz Total(E2-YZ), Max= 1.81dBi

Total(H-XY), Max= 1.97dBi, CirD=5.96



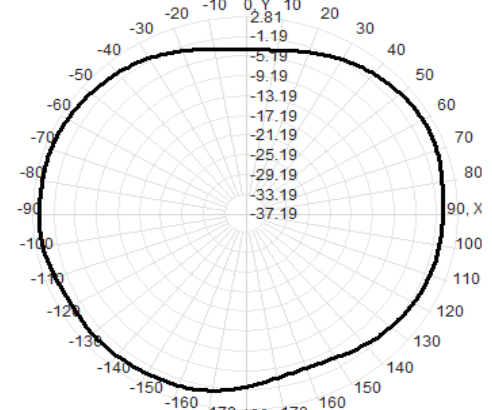
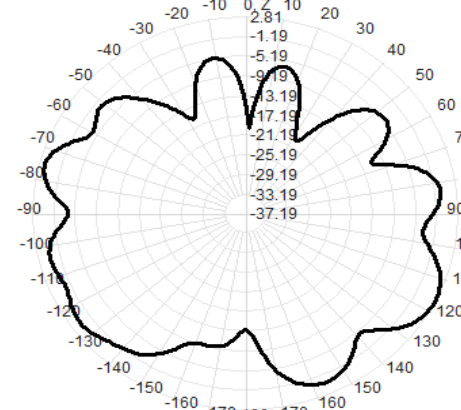
5830.0MHz H+V, Eff: 64.2%

Back View



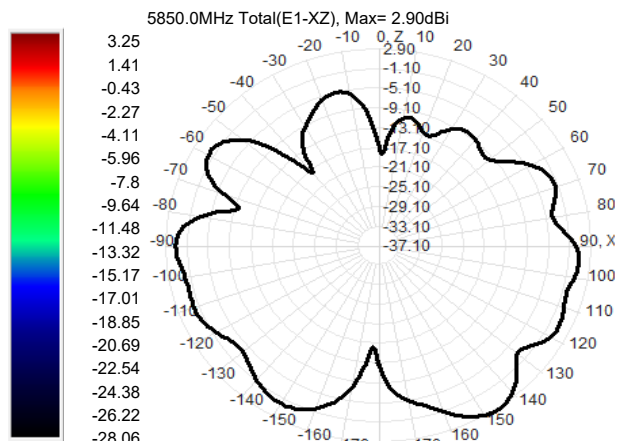
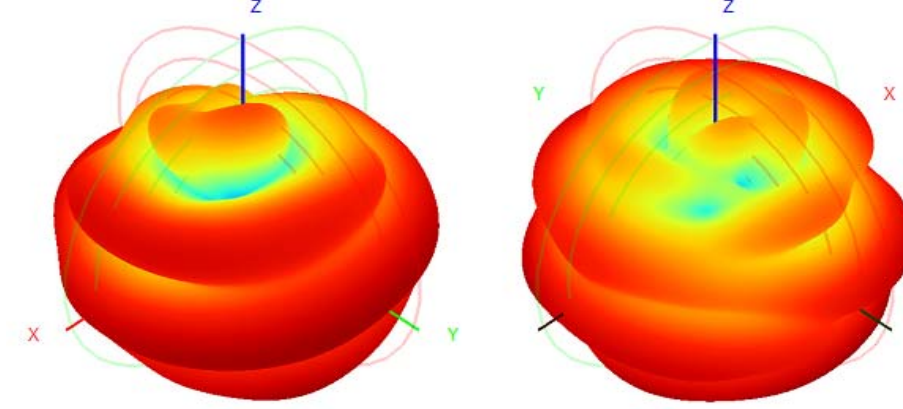
5830.0MHz Total(E2-YZ), Max= 2.46dBi

Total(H-XY), Max= 1.54dBi, CirD=5.51



5850.0MHz H+V, Eff: 65.5%

Back View



5850.0MHz Total(E2-YZ), Max= 2.68dBi

Total(H-XY), Max= 1.10dBi, CirD=5.64

