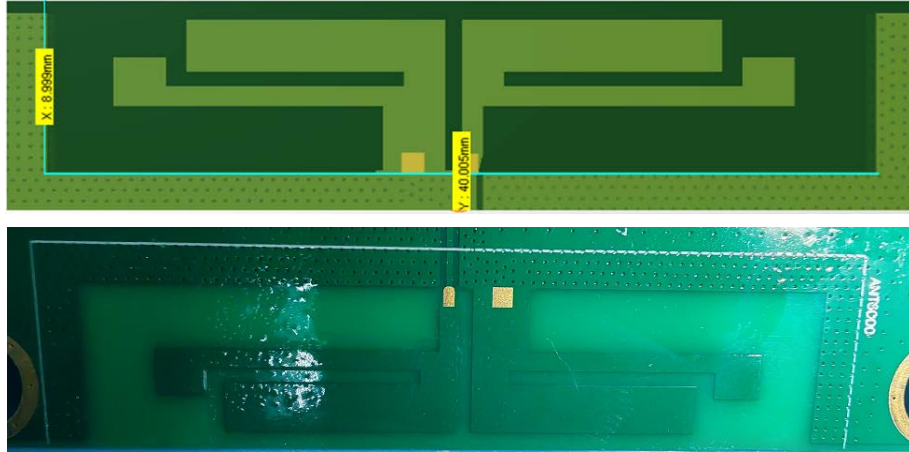


Antenna Specification

Model:	SeeStar S30-RF/BLE
Manufacturer:	SUZHOU ZWO CO.,LTD.
Add:	Building 2, Peninsula Life Plaza, Moon bay road 6 SuZhou Industrial Park, JiangSu, China
Test Labs:	SuZhou Saixun Communication Technology Co.,Ltd.

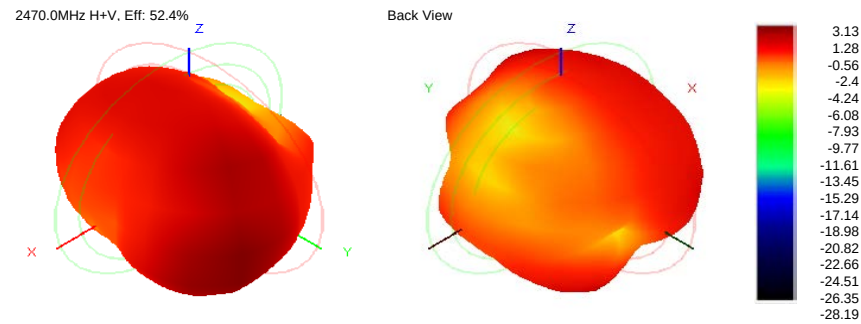
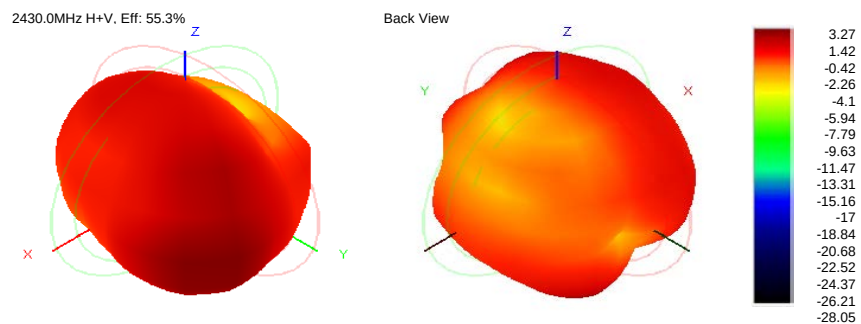
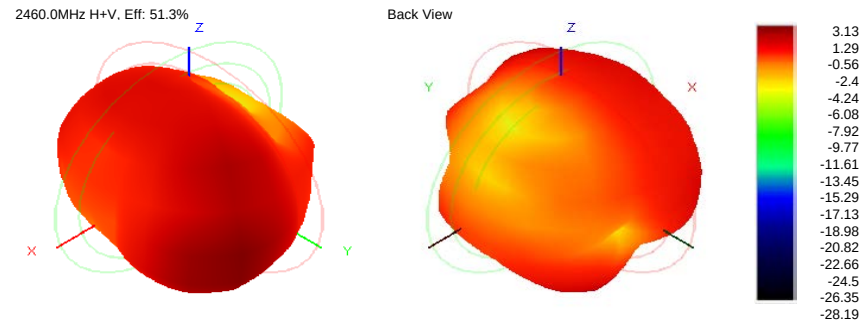
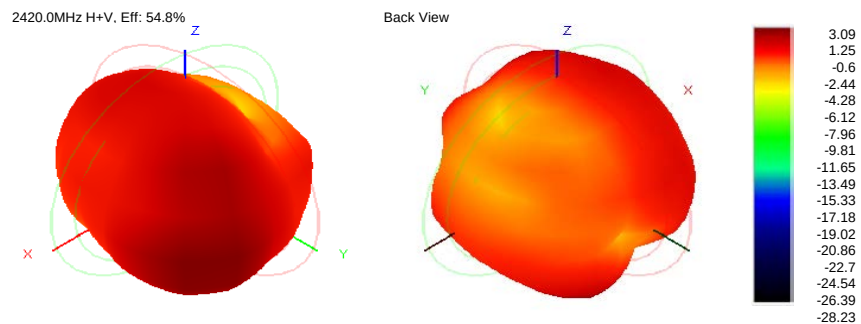
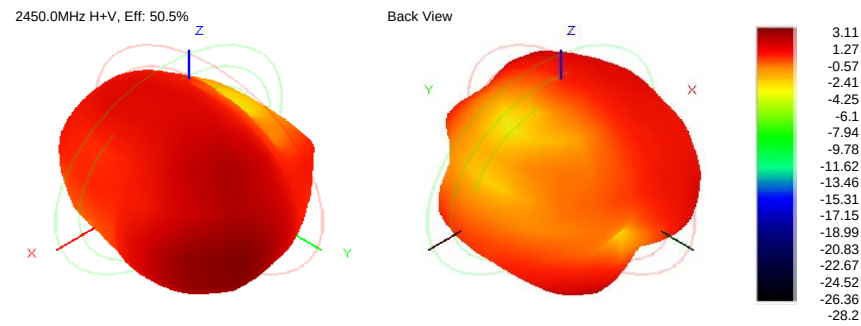
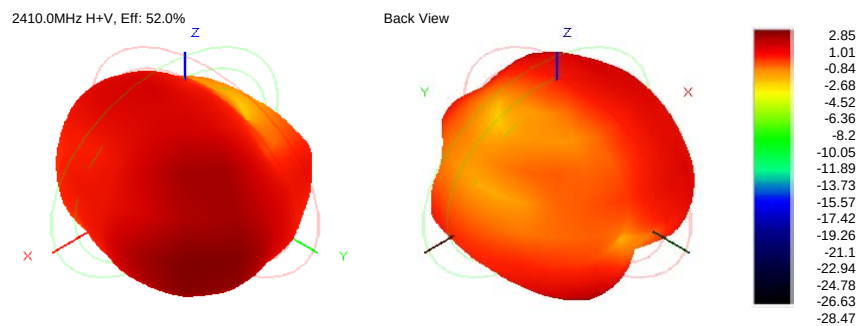
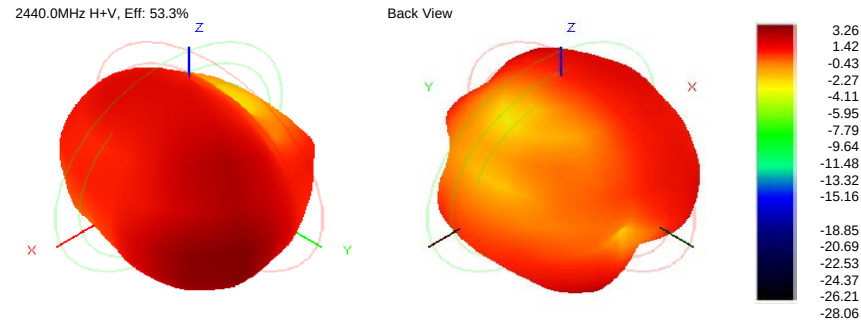
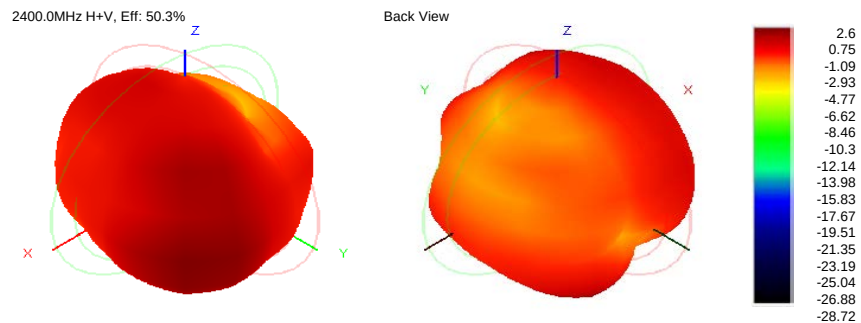
Drawing

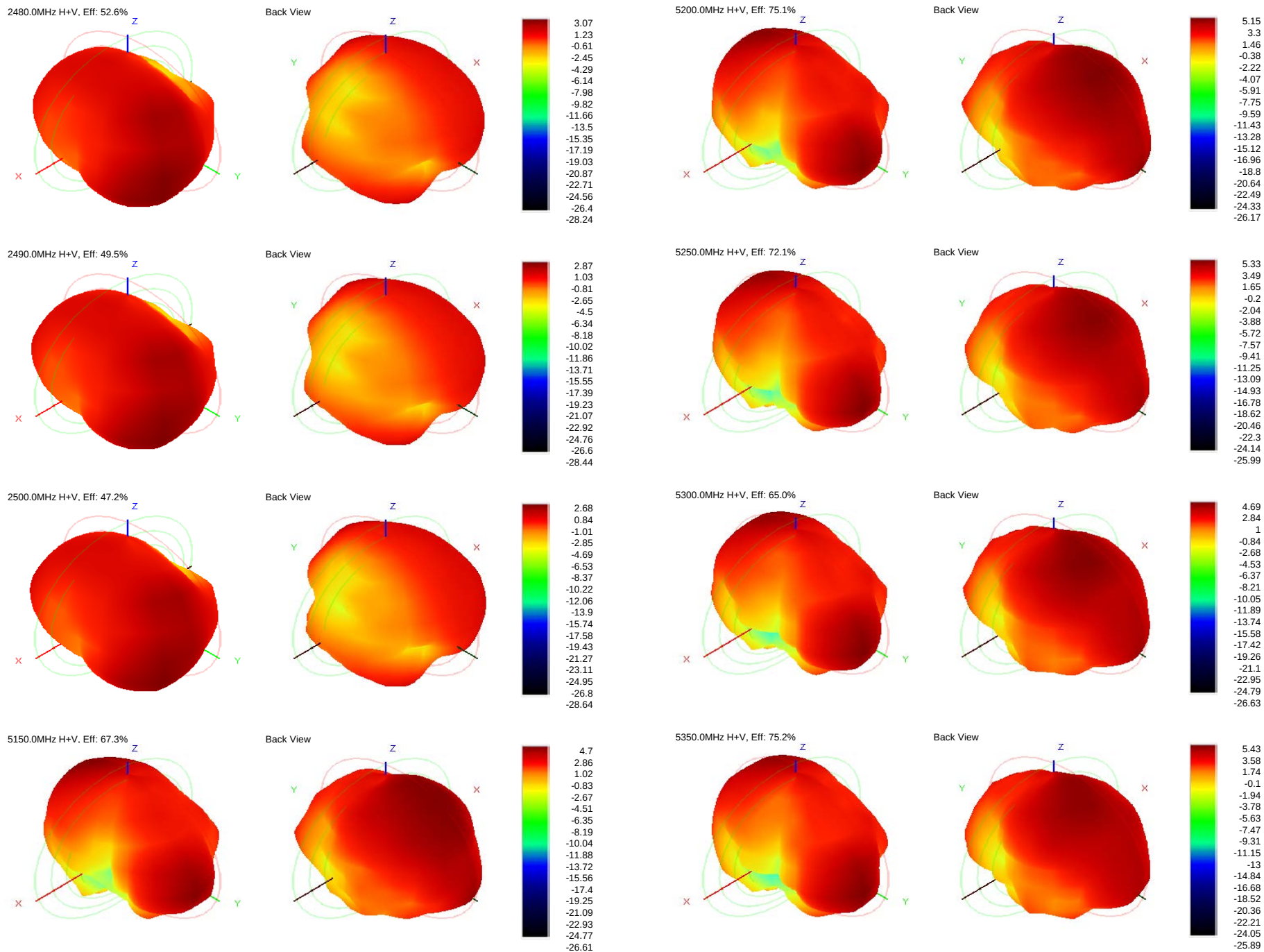


Type of antenna: PCB pattern

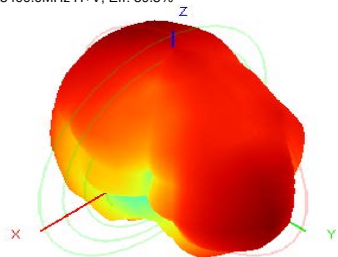
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5200.0
Efficiency (dBi)	-2.99	-2.84	-2.61	-2.57	-2.73	-2.96	-2.90	-2.81	-2.79	-3.06	-3.26	-1.72	-1.24
Gain (dBi)	2.60	2.85	3.09	3.27	3.26	3.11	3.13	3.13	3.07	2.87	2.68	4.70	5.15
Efficiency (%)	50.25	51.95	54.84	55.31	53.32	50.53	51.27	52.41	52.58	49.46	47.23	67.32	75.09
Directivity (dB)	5.58	5.69	5.70	5.84	5.99	6.08	6.03	5.93	5.87	5.93	5.94	6.42	6.39
Peak Gain Position (Theta)	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	90.00	90.00	90.00	30.00	30.00
Peak Gain Position (Phi)	45.00	45.00	45.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	270.00	270.00
Efficiency ThetaPol (%)	26.31	26.93	28.07	28.02	26.74	24.67	24.44	24.17	23.55	21.09	19.31	12.95	14.14
Efficiency PhiPol (%)	23.94	25.02	26.77	27.29	26.58	25.86	26.83	28.23	29.03	28.37	27.93	54.37	60.94
Upper Hem. Efficiency (%)	28.03	28.82	30.26	30.43	29.25	27.62	27.96	28.57	28.64	27.02	25.97	45.53	50.73
Lower Hem. Efficiency (%)	22.22	23.13	24.57	24.88	24.07	22.91	23.31	23.84	23.94	22.44	21.27	21.79	24.36

Frequency ID	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-1.42	-1.87	-1.24	-2.25	-2.08	-2.82	-2.73	-2.61	-3.20	-2.73	-2.69	-3.22	-2.71
Gain (dBi)	5.33	4.69	5.43	4.06	4.50	3.66	3.75	4.30	3.26	3.68	4.23	3.16	3.89
Efficiency (%)	72.12	64.99	75.16	59.51	61.88	52.24	53.36	54.77	47.88	53.34	53.78	47.63	53.63
Directivity (dB)	6.75	6.56	6.67	6.31	6.58	6.48	6.48	6.91	6.46	6.41	6.92	6.38	6.59
Peak Gain Position (Theta)	75.00	75.00	75.00	75.00	75.00	75.00	30.00	75.00	30.00	75.00	30.00	90.00	90.00
Peak Gain Position (Phi)	75.00	75.00	75.00	75.00	75.00	75.00	255.00	75.00	240.00	75.00	240.00	75.00	75.00
Efficiency ThetaPol (%)	13.29	12.42	13.09	12.42	12.60	11.63	12.60	11.23	11.16	11.61	15.90	12.14	12.12
Efficiency PhiPol (%)	58.83	52.57	62.08	47.09	49.28	40.61	40.76	43.54	36.72	41.73	37.88	35.49	41.50
Upper Hem. Efficiency (%)	48.48	43.80	50.52	40.34	41.76	35.13	35.95	36.53	31.94	35.49	36.04	31.79	35.47
Lower Hem. Efficiency (%)	23.64	21.19	24.64	19.17	20.12	17.11	17.41	18.24	15.94	17.85	17.75	15.85	18.16

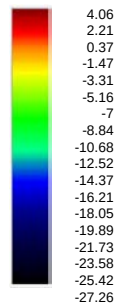
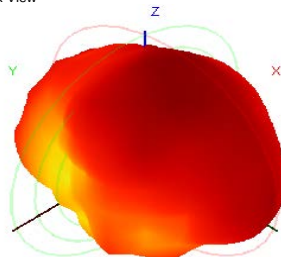




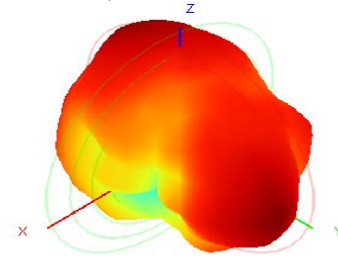
5400.0MHz H+V, Eff: 59.5%



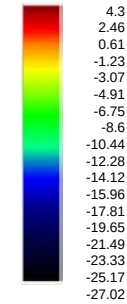
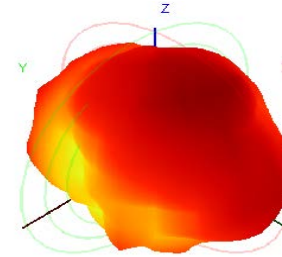
Back View



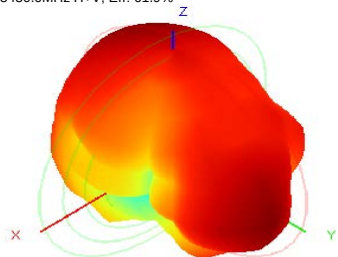
5600.0MHz H+V, Eff: 54.8%



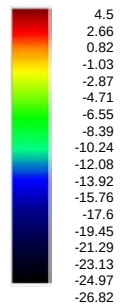
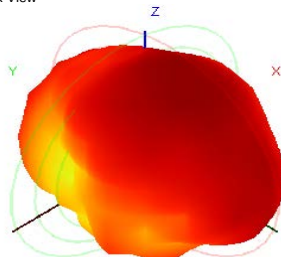
Back View



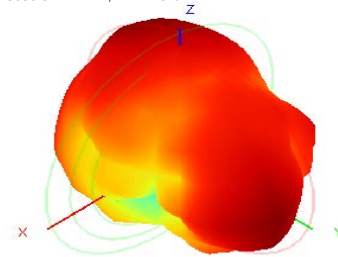
5450.0MHz H+V, Eff: 61.9%



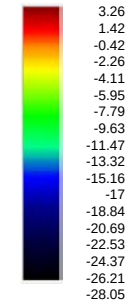
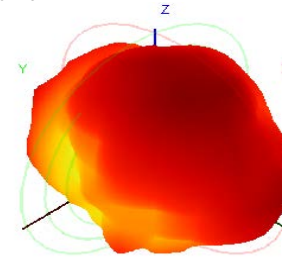
Back View



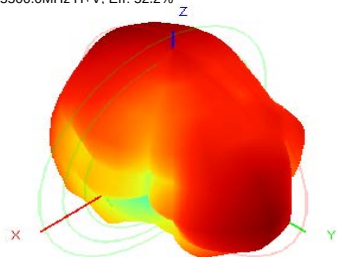
5650.0MHz H+V, Eff: 47.9%



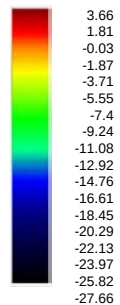
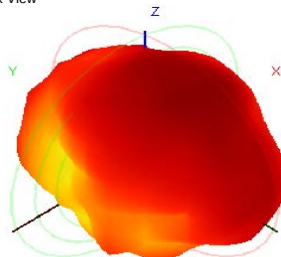
Back View



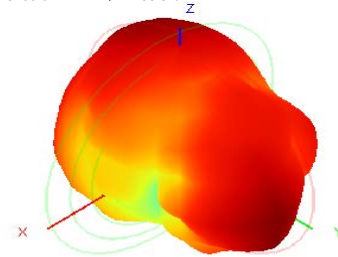
5500.0MHz H+V, Eff: 52.2%



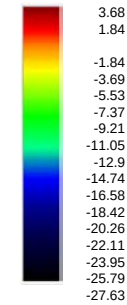
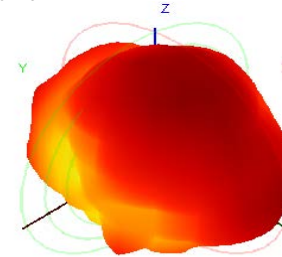
Back View



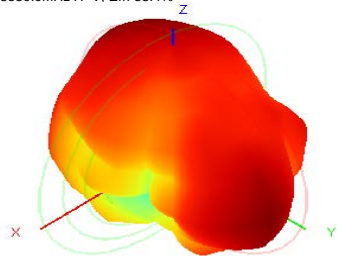
5700.0MHz H+V, Eff: 53.3%



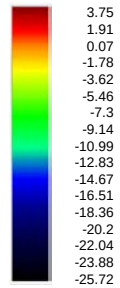
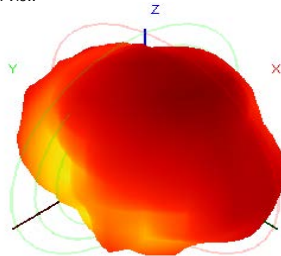
Back View



5550.0MHz H+V, Eff: 53.4%

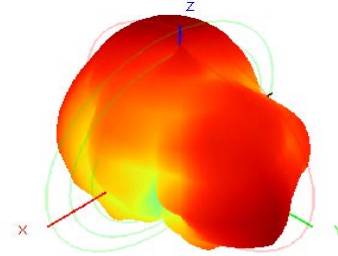


Back View

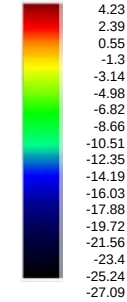
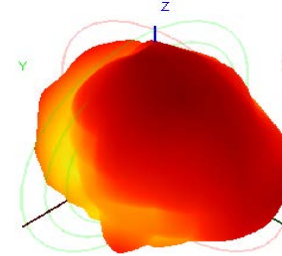


-27.57

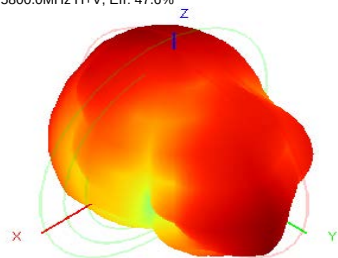
5750.0MHz H+V, Eff: 53.8%



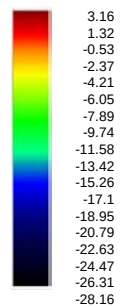
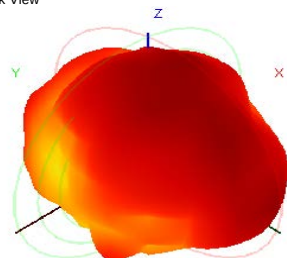
Back View



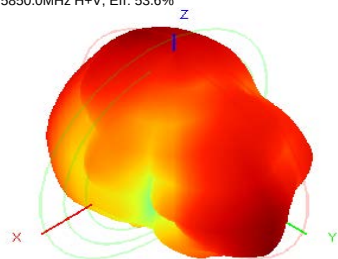
5800.0MHz H+V, Eff: 47.6%



Back View



5850.0MHz H+V, Eff: 53.6%



Back View

