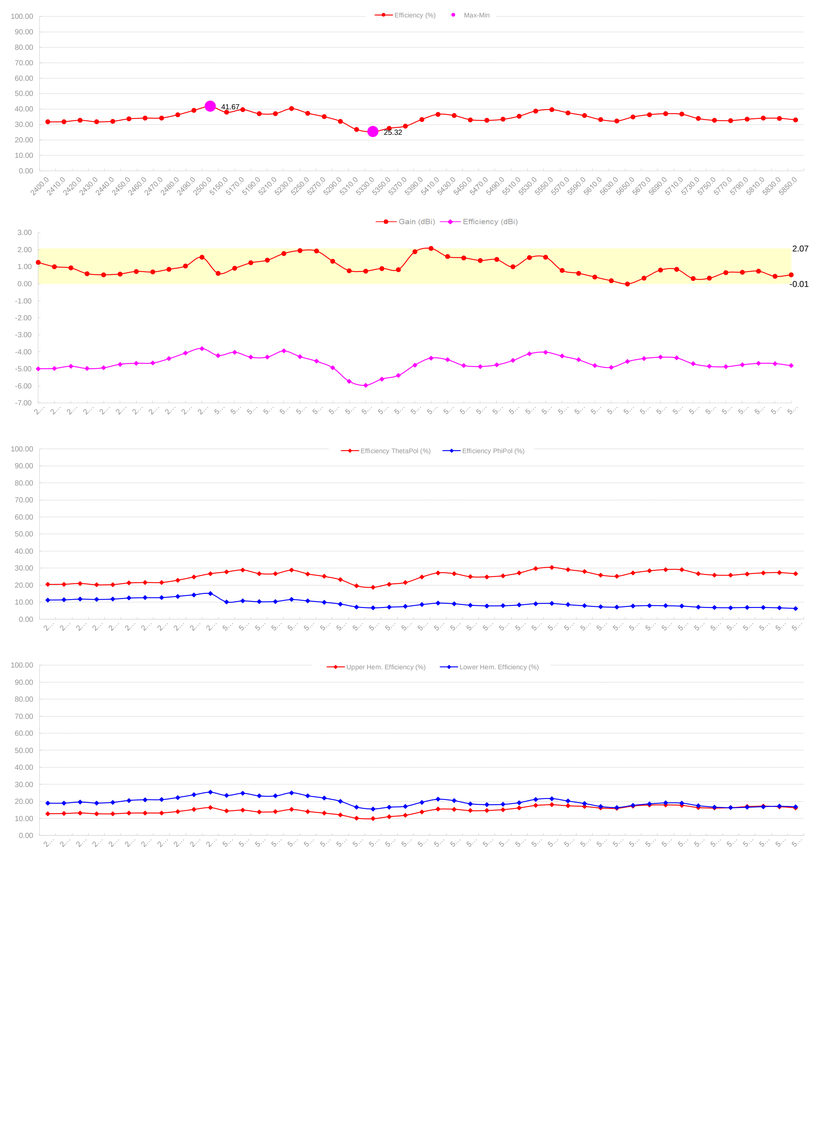
Manufacturer: Beijing Zhijie Chen Technology Co., LTD

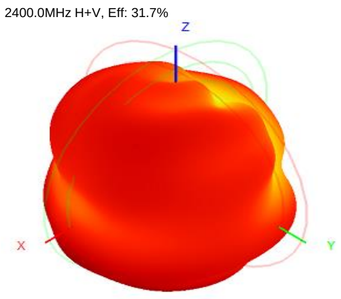
Antenna Model: Built-in FPC25*9-12cm-3 generation IPEX (purchased terminal cable)

Antenna Type: FPC

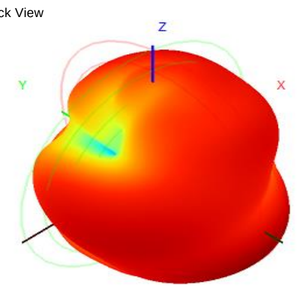
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0	5150.0	5170.0	5190.0	5210.0	5230.0	5250.0	5270.0	5290.0	5310.0	5330.0	5350.0	5370.0	5390.0	5410.0	5430.0	5450.0	5470.0	5490.0	5510.0	5530.0	5550.0	5570.0	5590.0	5610.0	5630.0	5650.0	5670.0	5690.0	5710.0	5730.0	5750.0	5770.0	5790.0	5810.0	5830.0	5850.0
Efficiency (dBi)	-4.99	-4.97	-4.85	-4.98	-4.94	-4.73	-4.67	-4.66	-4.40	-4.08	-3.80	-4.22	-4.02	-4.32	-4.31	-3.95	-4.28	-4.55	-4.94	-5.73	-5.97	-5.60	-5.39	-4.78	-4.36	-4.46	-4.81	-4.86	-4.77	-4.51	-4.12	-4.02	-4.25	-4.47	-4.80	-4.92	-4.57	-4.39	-4.32	-4.36	-4.71	-4.86	-4.87	-4.76	-4.68	-4.69	-4.81
Gain (dBi)	1.25	1.00	0.93	0.59	0.53	0.57	0.72	0.69	0.85	1.03	1.55	0.60	0.91	1.23	1.38	1.77	1.95	1.92	1.32	0.77	0.74	0.90	0.83	1.88	2.07	1.59	1.52	1.37	1.42	0.99	1.54	1.56	0.78	0.62	0.39	0.18	-0.01	0.33	0.80	0.85	0.30	0.32	0.65	0.68	0.74	0.43	0.52
Efficiency (%)	31.67	31.81	32.76	31.74	32.07	33.66	34.13	34.21	36.31	39.12	41.67	37.88	39.61	37.00	37.07	40.27	37.29	35.05	32.08	26.71	25.32	27.57	28.90	33.27	36.62	35.77	33.07	32.66	33.34	35.41	38.76	39.64	37.58	35.75	33.12	32.23	34.92	36.38	37.01	36.66	33.84	32.68	32.55	33.42	34.07	33.99	33.00
Directivity (dB)	6.24	5.98	5.77	5.57	5.46	5.30	5.39	5.35	5.25	5.11	5.36	4.82	4.93	5.55	5.69	5.72	6.24	6.48	6.26	6.50	6.71	6.49	6.22	6.65	6.43	6.06	6.33	6.23	6.19	5.49	5.65	5.58	5.03	5.08	5.19	5.09	4.56	4.72	5.12	5.21	5.00	5.18	5.53	5.44	5.41	5.12	5.33
Peak Gain Position (Theta)	106.00	106.00	106.00	106.00	105.00	124.00	124.00	124.00	105.00	107.00	107.00	146.00	147.00	148.00	147.00	147.00	146.00	147.00	147.00	148.00	148.00	148.00	148.00	123.00	123.00	124.00	148.00	149.00	149.00	149.00	149.00	124.00	148.00	147.00	148.00	149.00	149.00	149.00	124.00	124.00	124.00	148.00	149.00	149.00	127.00	127.00	127.00
Peak Gain Position (Phi)	281.00	282.00	282.00	281.00	278.00	33.00	34.00	32.00	274.00	277.00	276.00	295.00	295.00	296.00	292.00	292.00	291.00	290.00	288.00	288.00	287.00	283.00	277.00	51.00	51.00	50.00	255.00	254.00	255.00	256.00	256.00	50.00	256.00	256.00	256.00	257.00	257.00	258.00	53.00	53.00	53.00	259.00	262.00	264.00	215.00	215.00	215.00
Efficiency ThetaPol (%)	20.42	20.49	20.99	20.17	20.31	21.26	21.53	21.54	22.90	24.82	26.70	27.77	28.89	26.78	26.70	28.77	26.56	25.11	23.20	19.53	18.69	20.50	21.48	24.72	27.22	26.73	24.89	24.83	25.49	27.10	29.64	30.43	29.09	27.90	25.89	25.18	27.19	28.39	29.14	28.99	26.77	25.90	25.82	26.57	27.20	27.36	26.70
Efficiency PhiPol (%)	11.25	11.32	11.77	11.56	11.71	12.40	12.61	12.67	13.42	14.30	14.97	10.11	10.72	10.22	10.36	11.50	10.73	9.93	8.88	7.17	6.63	7.07	7.43	8.56	9.41	9.04	8.18	7.83	7.85	8.32	9.12	9.21	8.49	7.85	7.23	7.06	7.23	7.99	7.87	7.67	7.07	6.78	6.72	6.85	6.86	6.63	6.31
Upper Hem. Efficiency (%)	12.75	12.86	13.18	12.72	12.68	13.11	13.16	13.21	14.05	15.27	16.32	14.42	14.88	13.79	13.92	15.24	14.04	13.11	12.02	10.10	9.79	11.00	11.82	13.81	15.39	15.37	14.52	14.61	15.14	16.16	17.59	18.00	17.40	17.00	16.11	15.89	17.27	17.85	17.91	17.65	16.37	16.06	16.28	16.91	17.18	16.86	16.18
Lower Hem. Efficiency (%)	18.92	18.96	19.58	19.02	19.39	20.55	20.97	20.99	22.26	23.85	25.34	23.46	24.74	23.20	23.15	25.04	23.25	21.93	20.06	16.61	15.53	16.57	17.08	19.47	21.23	20.40	18.55	18.05	18.20	19.25	21.17	21.64	20.18	18.75	17.01	16.35	17.65	18.53	19.10	19.00	17.48	16.62	16.27	16.51	16.89	17.13	16.82
T90(H)圆度	8.47	9.20	9.80	10.29	10.62	10.95	11.06	11.20	11.15	10.76	10.14	10.86	11.89	12.81	13.05	13.65	14.48	15.52	15.83	16.20	16.64	15.71	16.37	15.74	15.47	16.40	17.17	18.19	19.37	21.33	22.40	21.27	21.84	24.66	28.70	26.61	26.48	28.14	21.40	19.79	19.10	19.83	22.80	23.94	24.99	23.36	19.72
Gain 15deg (dBi)																																															
E1(XZ)波瓣宽度	38.00	38.00	39.00	39.00	39.00	38.00	37.00	38.00	38.00	38.00	39.00	26.00	25.00	25.00	26.00	27.00	26.00	24.00	23.00	23.00	22.00	22.00	23.00	22.00	21.00	20.00	20.00	20.00	20.00	21.00	20.00	20.00	20.00	19.00	19.00	19.00	21.00	22.00	19.00	19.00	19.00	19.00	18.00	20.00	13.00	13.00	18.00
E1(XZ)前后比	4.12	3.83	3.35	2.95	2.80	2.84	2.92	2.91	2.91	3.01	3.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.15	0.24	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.36	0.24	0.00
E2(YZ)波瓣宽度	31.00	32.00	33.00	36.00	39.00	41.00	42.00	41.00	39.00	37.00	33.00	36.00	37.00	37.00	37.00	37.00	36.00	34.00	32.00	31.00	30.00	30.00	30.00	29.00	28.00	25.00	24.00	23.00	24.00	24.00	24.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	23.00	22.00	23.00	22.00	22.00	22.00	23.00	23.00	23.00
E2(YZ)前后比	2.38	2.12	1.82	1.53	1.39	1.36	1.41	1.47	1.53	1.68	2.00	0.42	0.32	0.16	0.11	0.12	0.15	0.15	0.14	0.11	0.08	0.05	0.05	0.05	0.05	0.04	0.03	0.03	0.02	0.02	0.03	0.04	0.06	0.09	0.05	0.02	0.00	0.02	0.05	0.11	0.14	0.09	0.03	0.02	0.03	0.10	0.19
最大增益处轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
仰角10度最差(大)轴比(P)	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Hc(XY)波瓣宽度	110.00	103.00	100.00	98.00	99.00	101.00	105.00	108.00	109.00	110.00	109.00	75.00	76.00	76.00	80.00	111.00	104.00	78.00	73.00	68.00	69.00	76.00	97.00	101.00	92.00	81.00	80.00	84.00	91.00	93.00	71.00	72.00	91.00	97.00	100.00	98.00	97.00	97.00	96.00	95.00	97.00	100.00	98.00	96.00	65.00	100.00	99.00
Hc(XY)前后比	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	2.51	3.11	2.84	2.08	1.86	2.26	2.84	3.31	3.57	3.67	3.39	3.15	3.24	3.57	4.07	4.60	5.04	5.13	4.92	4.69	4.41	3.99	3.91	4.51	5.33	5.61	5.32	4.80	4.18	4.10	4.78	6.19	6.91	6.40	5.35
Empty																																															

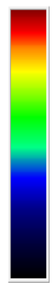


2400.0MHz H+V, Eff: 31.7%

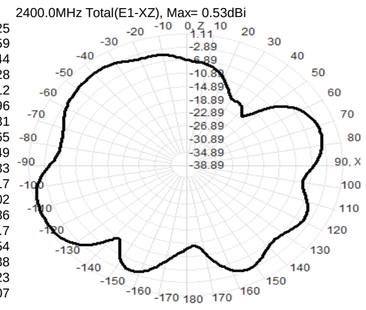


Back View

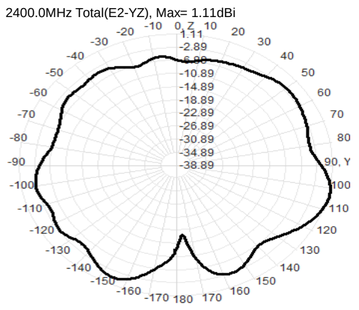




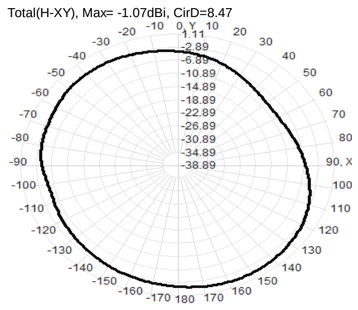
2400.0MHz Total(E1-XZ), Max= 0.53dBi



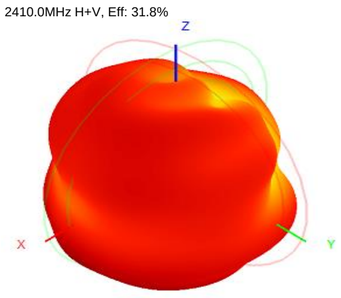
2400.0MHz Total(E2-YZ), Max= 1.11dBi



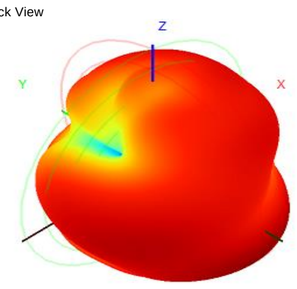
Total(H-XY), Max= -1.07dBi, CirD=8.47

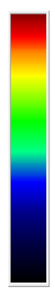


2410.0MHz H+V, Eff: 31.8%

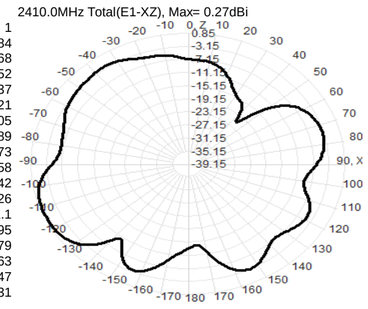


Back View





2410.0MHz Total(E1-XZ), Max= 0.27dBi



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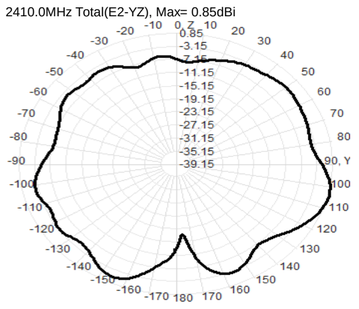
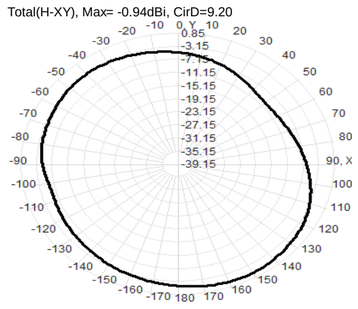
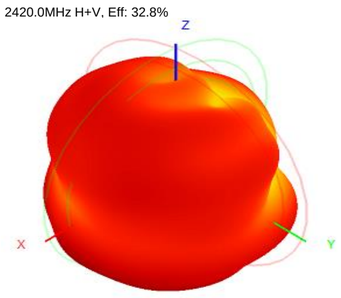


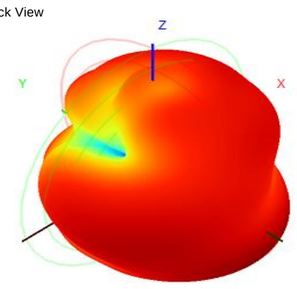
Total(H-XY), Max= -0.94dBi, CirD=9.20

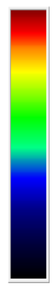


2420.0MHz H+V, Eff: 32.8%

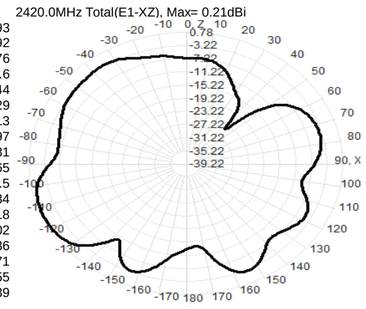


Back View

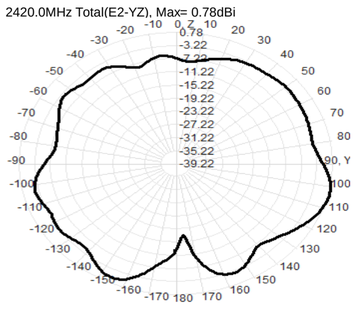




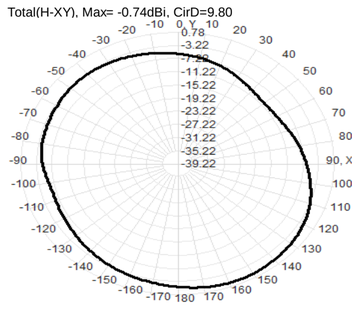
2420.0MHz Total(E1-XZ), Max= 0.21dBi



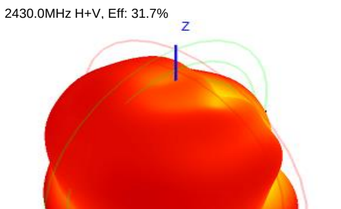
2420.0MHz Total(E2-YZ), Max= 0.78dBi



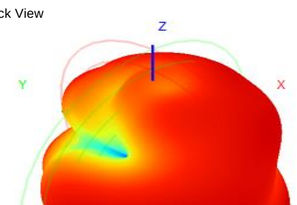
Total(H-XY), Max= -0.74dBi, CirD=9.80



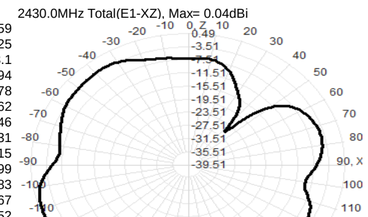
2430.0MHz H+V, Eff: 31.7%



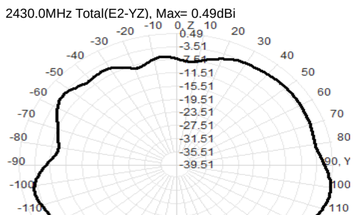
Back View



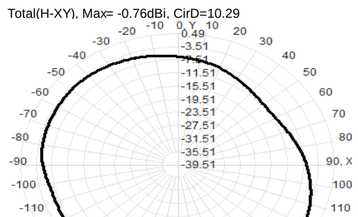
2430.0MHz Total(E1-XZ), Max= 0.04dBi



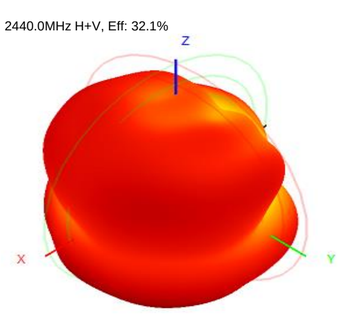
2430.0MHz Total(E2-YZ), Max= 0.49dBi



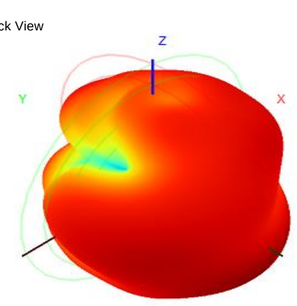
Total(H-XY), Max= -0.76dBi, CirD=10.29

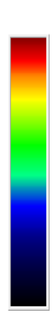


2440.0MHz H+V, Eff: 32.1%

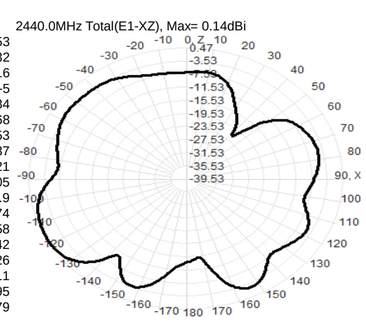


Back View

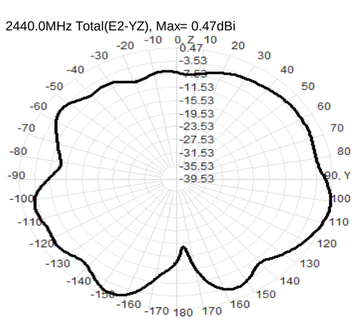




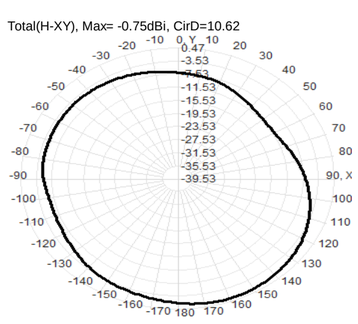
2440.0MHz Total(E1-XZ), Max= 0.14dBi



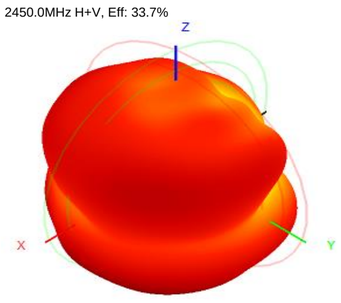
2440.0MHz Total(E2-YZ), Max= 0.47dBi



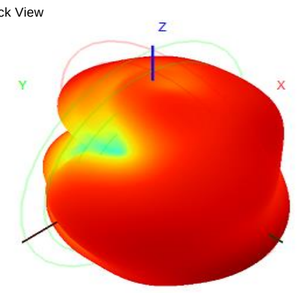
Total(H-XY), Max= -0.75dBi, CirD=10.62

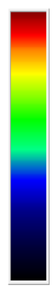


2450.0MHz H+V, Eff: 33.7%

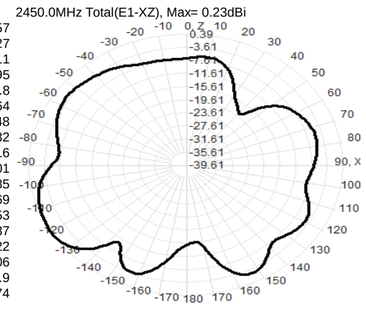


Back View

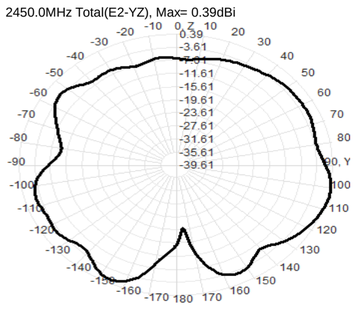




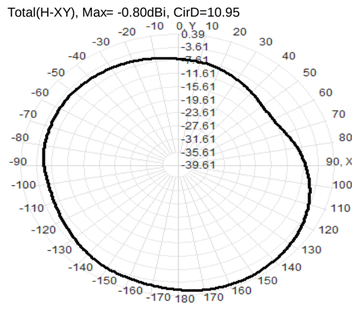
2450.0MHz Total(E1-XZ), Max= 0.23dBi



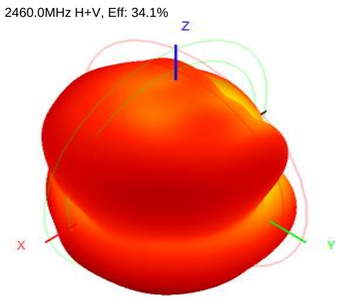
2450.0MHz Total(E2-YZ), Max= 0.39dBi



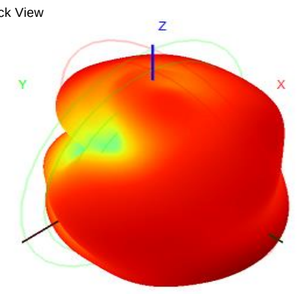
Total(H-XY), Max= -0.80dBi, CirD=10.95

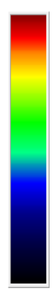


2460.0MHz H+V, Eff: 34.1%

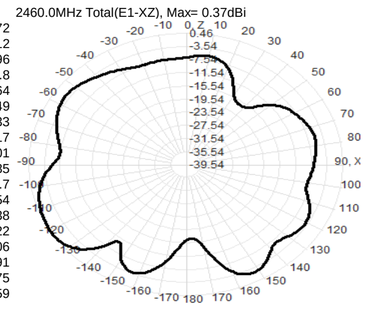


Back View

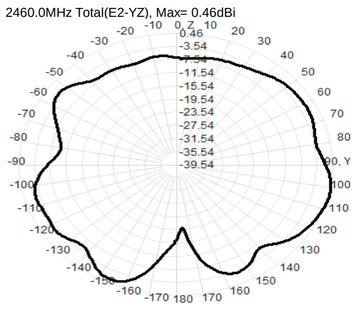




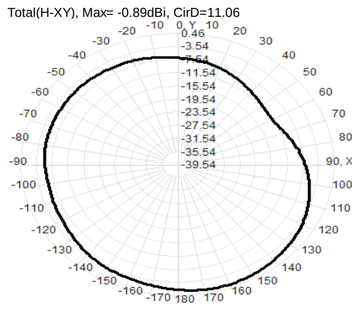
2460.0MHz Total(E1-XZ), Max= 0.37dBi



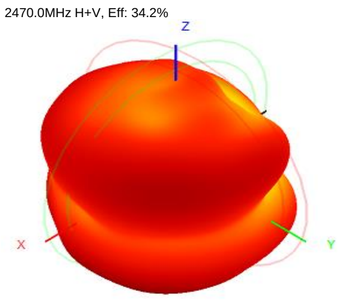
2460.0MHz Total(E2-YZ), Max= 0.46dBi



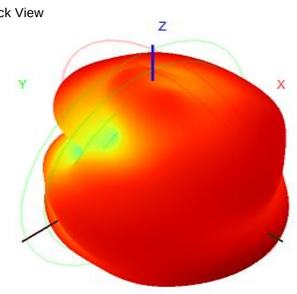
Total(H-XY), Max= -0.89dBi, CirD=11.06

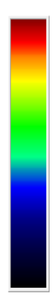


2470.0MHz H+V, Eff: 34.2%

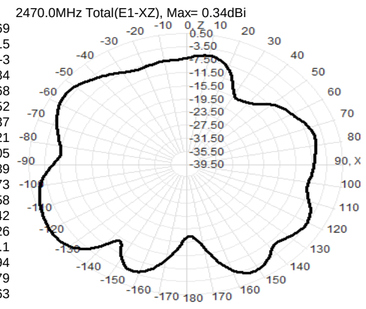


Back View

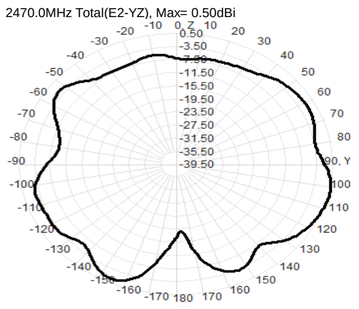




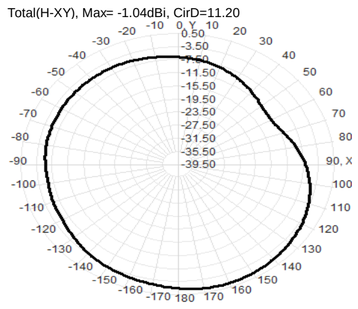
2470.0MHz Total(E1-XZ), Max= 0.34dBi



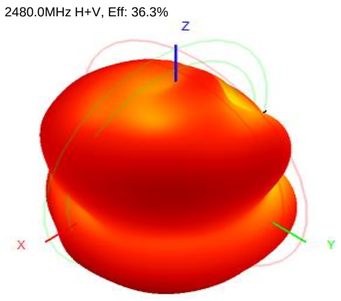
2470.0MHz Total(E2-YZ), Max= 0.50dBi



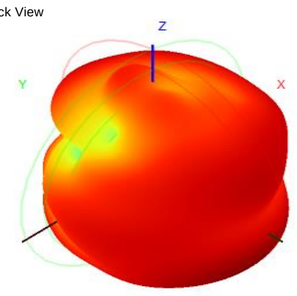
Total(H-XY), Max= -1.04dBi, CirD=11.20

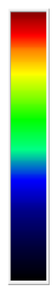


2480.0MHz H+V, Eff: 36.3%

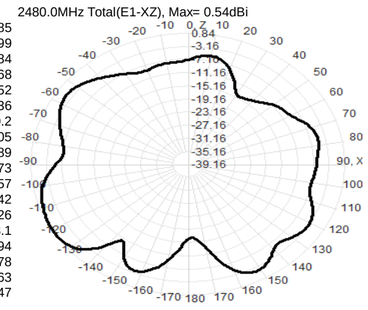


Back View

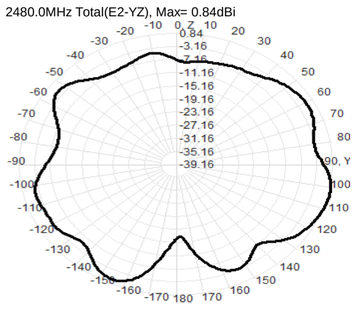




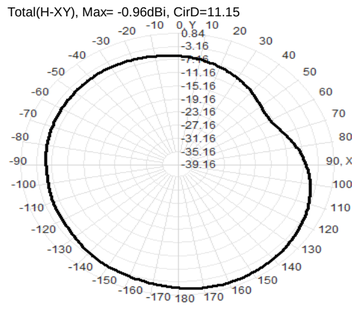
2480.0MHz Total(E1-XZ), Max= 0.54dBi



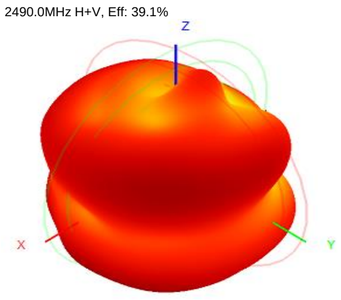
2480.0MHz Total(E2-YZ), Max= 0.84dBi



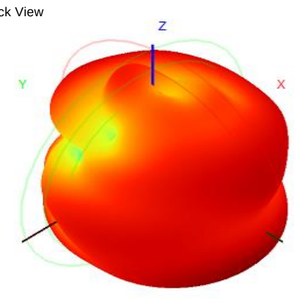
Total(H-XY), Max= -0.96dBi, CirD=11.15

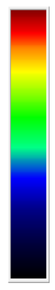


2490.0MHz H+V, Eff: 39.1%

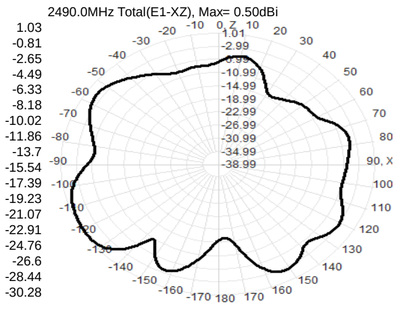


Back View

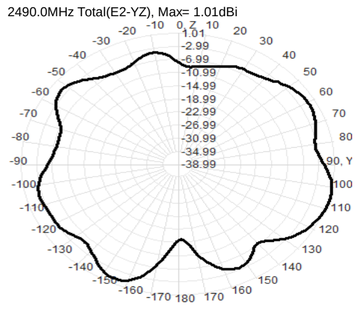




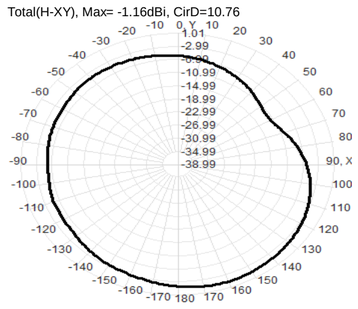
2490.0MHz Total(E1-XZ), Max= 0.50dBi



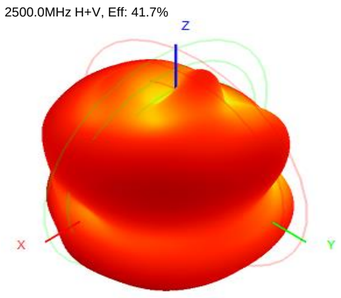
2490.0MHz Total(E2-YZ), Max= 1.01dBi



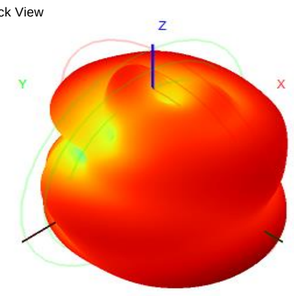
Total(H-XY), Max= -1.16dBi, CirD=10.76



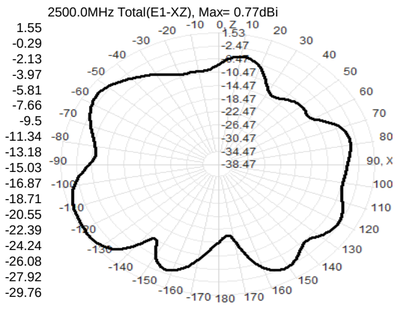
2500.0MHz H+V, Eff: 41.7%



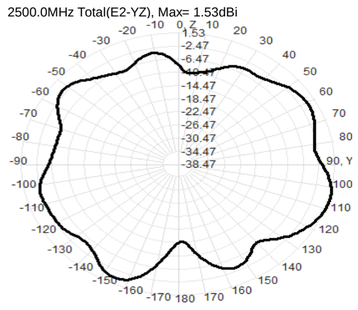
Back View



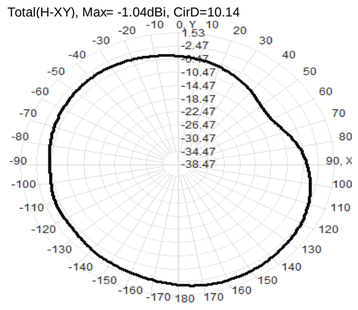
2500.0MHz Total(E1-XZ), Max= 0.77dBi



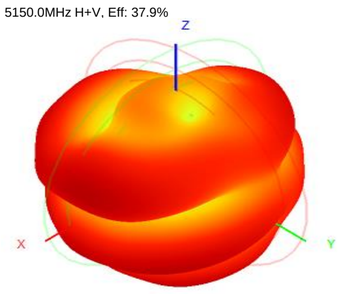
2500.0MHz Total(E2-YZ), Max= 1.53dBi



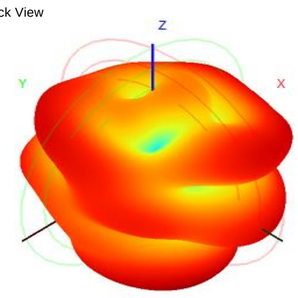
Total(H-XY), Max= -1.04dBi, CirD=10.14

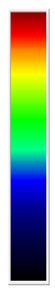


5150.0MHz H+V, Eff: 37.9%

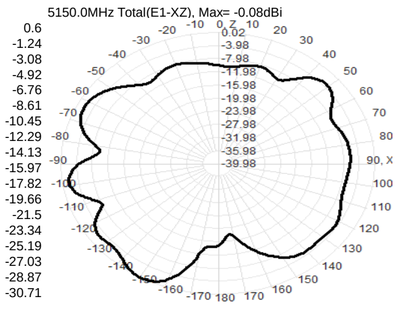


Back View

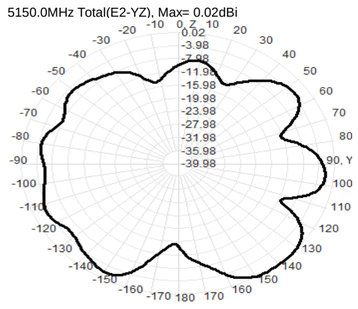




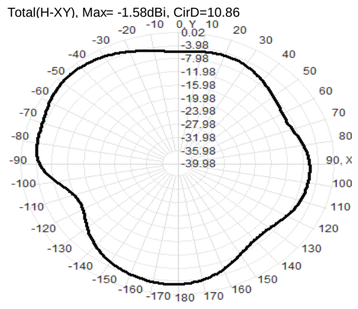
5150.0MHz Total(E1-XZ), Max= -0.08dBi



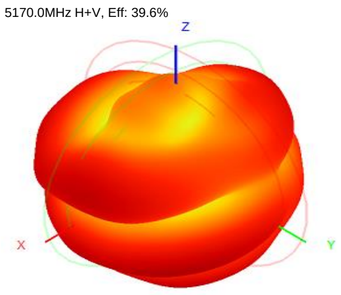
5150.0MHz Total(E2-YZ), Max= 0.02dBi



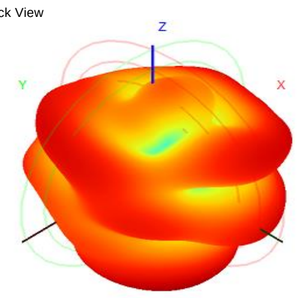
Total(H-XY), Max= -1.58dBi, CirD=10.86

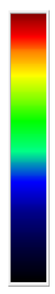


5170.0MHz H+V, Eff: 39.6%

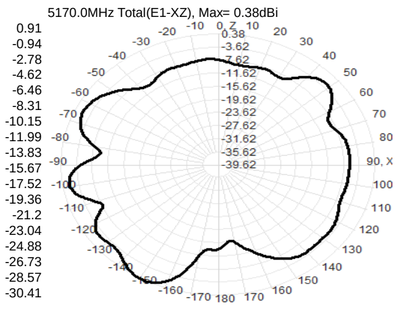


Back View

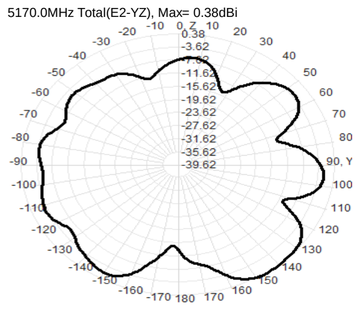




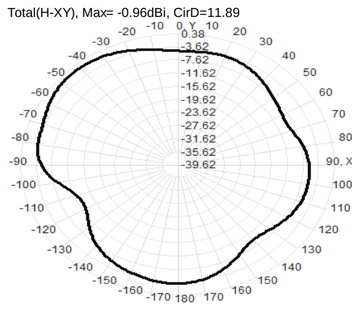
5170.0MHz Total(E1-XZ), Max= 0.38dBi



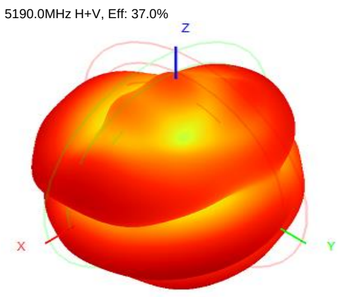
5170.0MHz Total(E2-YZ), Max= 0.38dBi



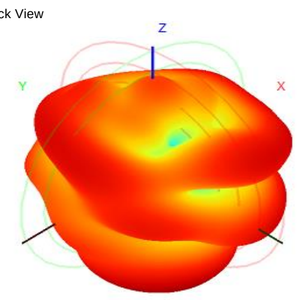
Total(H-XY), Max= -0.96dBi, CirD=11.89

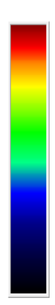


5190.0MHz H+V, Eff: 37.0%

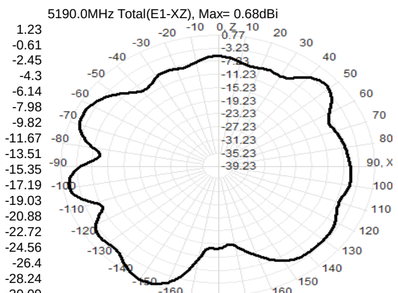


Back View

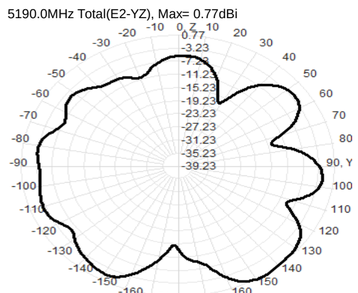




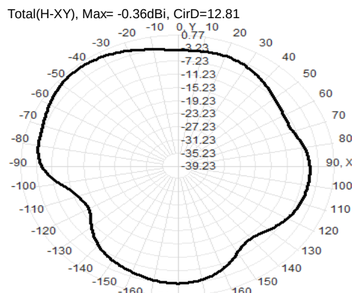
5190.0MHz Total(E1-XZ), Max= 0.68dBi



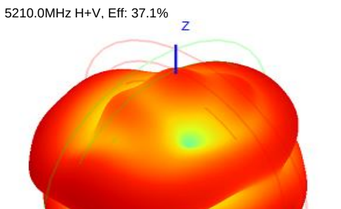
5190.0MHz Total(E2-YZ), Max= 0.77dBi



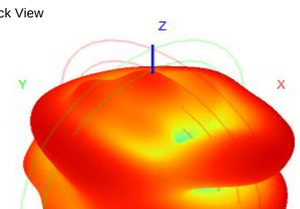
Total(H-XY), Max= -0.36dBi, CirD=12.81



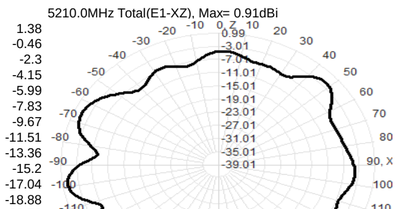
5210.0MHz H+V, Eff: 37.1%



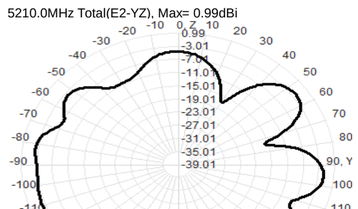
Back View



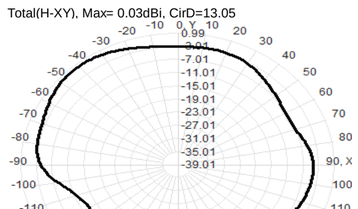
5210.0MHz Total(E1-XZ), Max= 0.91dBi



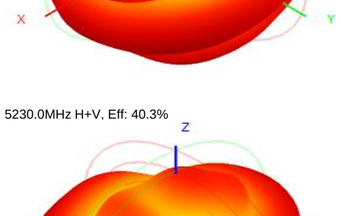
5210.0MHz Total(E2-YZ), Max= 0.99dBi



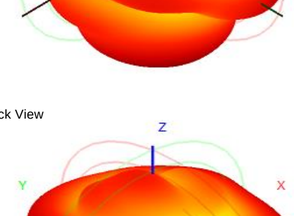
Total(H-XY), Max= 0.03dBi, CirD=13.05



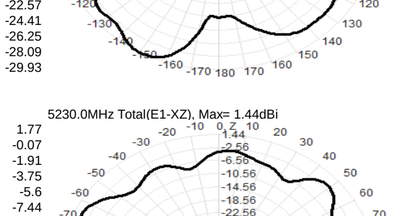
5230.0MHz H+V, Eff: 40.3%



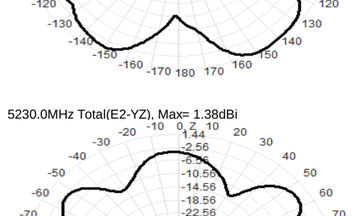
Back View



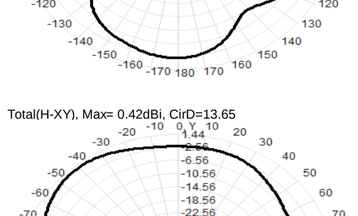
5230.0MHz Total(E1-XZ), Max= 1.44dBi



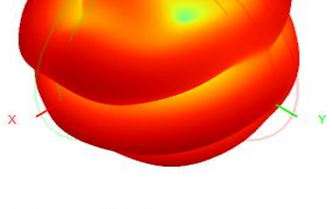
5230.0MHz Total(E2-YZ), Max= 1.38dBi



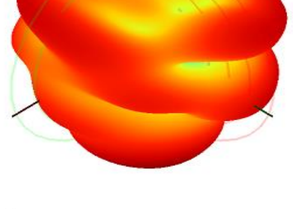
Total(H-XY), Max= 0.42dBi, CirD=13.65



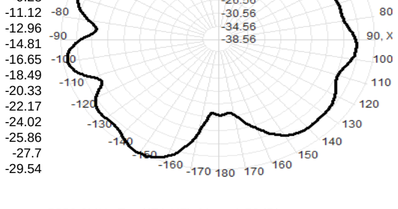
5250.0MHz H+V, Eff: 37.3%



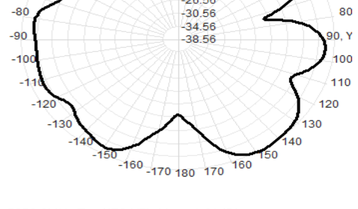
Back View



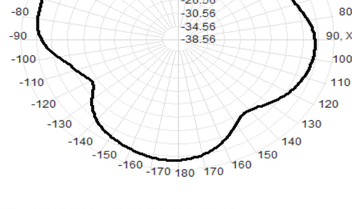
5250.0MHz Total(E1-XZ), Max= 1.70dBi



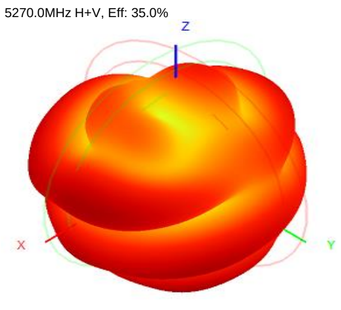
5250.0MHz Total(E2-YZ), Max= 1.61dBi



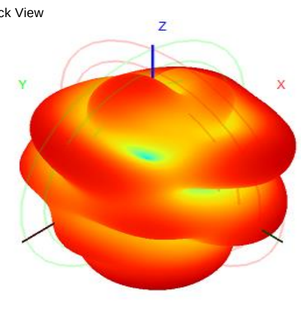
Total(H-XY), Max= 0.44dBi, CirD=14.48

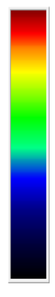


5270.0MHz H+V, Eff: 35.0%

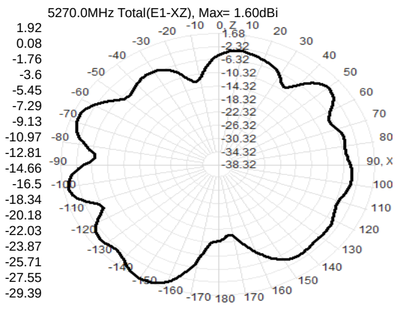


Back View

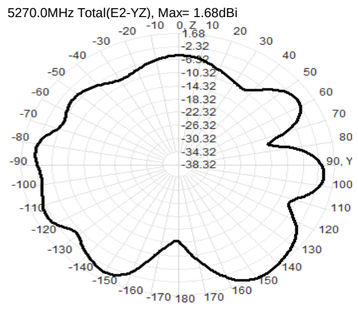




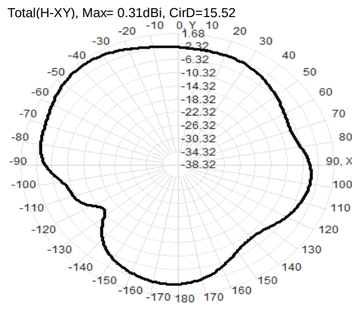
5270.0MHz Total(E1-XZ), Max= 1.60dBi



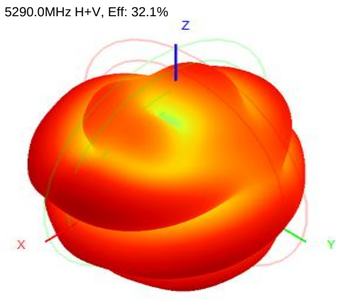
5270.0MHz Total(E2-YZ), Max= 1.68dBi



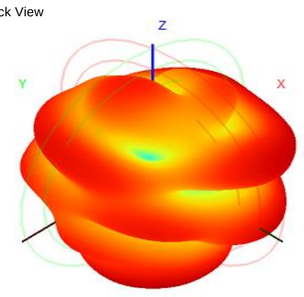
Total(H-XY), Max= 0.31dBi, CirD=15.52

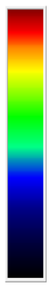


5290.0MHz H+V, Eff: 32.1%

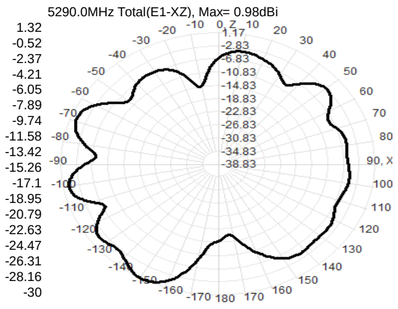


Back View

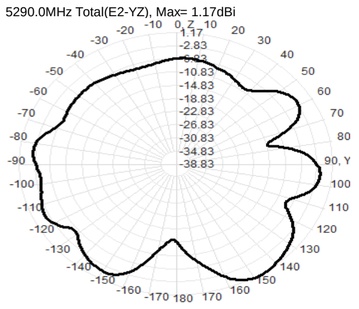




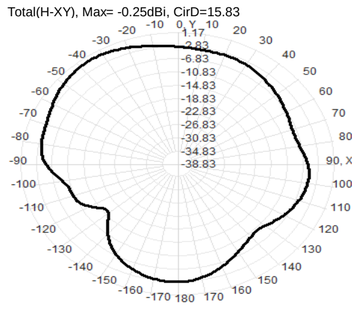
5290.0MHz Total(E1-XZ), Max= 0.98dBi



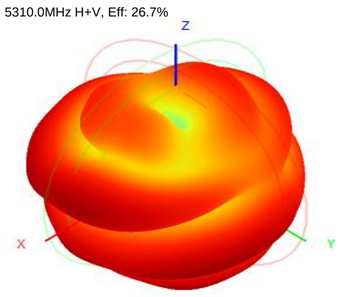
5290.0MHz Total(E2-YZ), Max= 1.17dBi



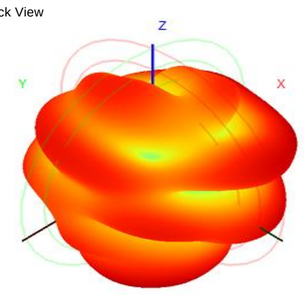
Total(H-XY), Max= -0.25dBi, CirD=15.83

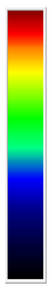


5310.0MHz H+V, Eff: 26.7%

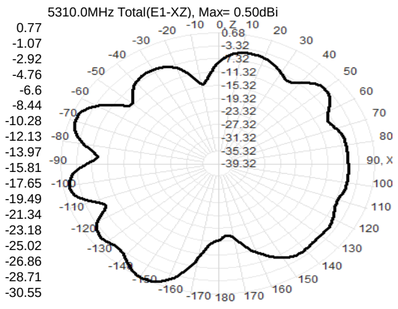


Back View

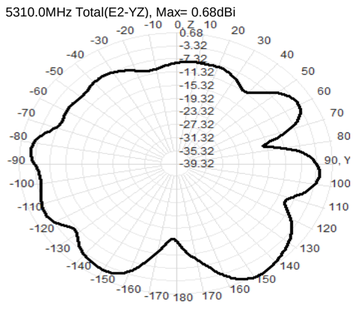




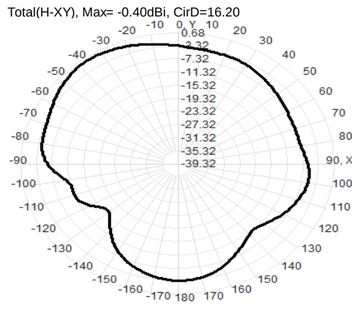
5310.0MHz Total(E1-XZ), Max= 0.50dBi



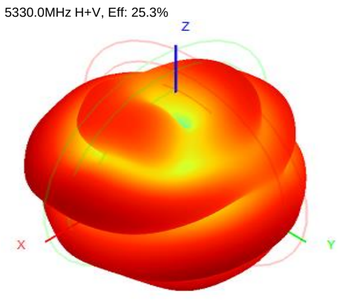
5310.0MHz Total(E2-YZ), Max= 0.68dBi



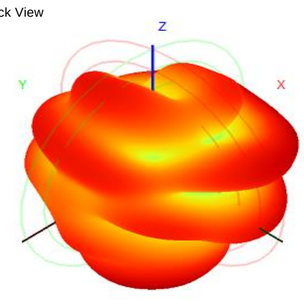
Total(H-XY), Max= -0.40dBi, CirD=16.20

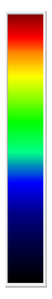


5330.0MHz H+V, Eff: 25.3%

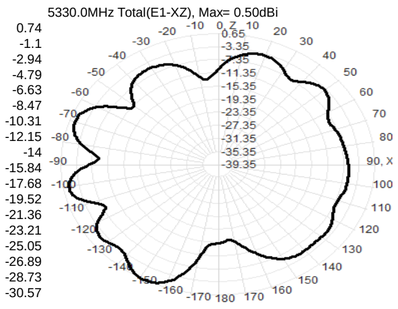


Back View

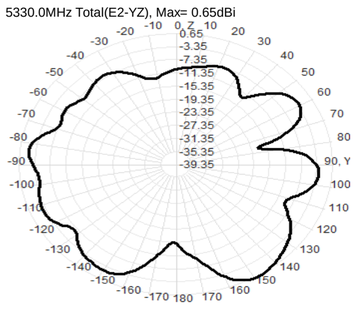




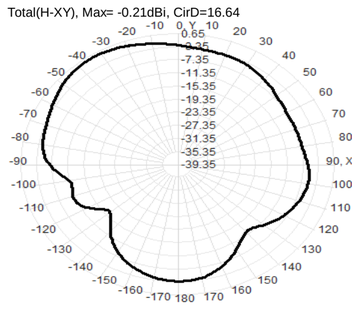
5330.0MHz Total(E1-XZ), Max= 0.50dBi



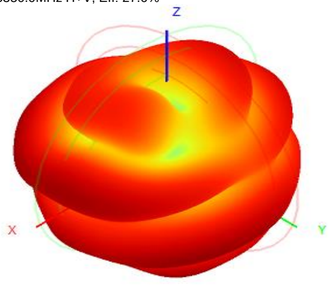
5330.0MHz Total(E2-YZ), Max= 0.65dBi



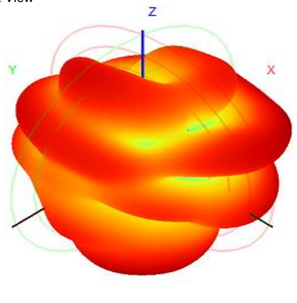
Total(H-XY), Max= -0.21dBi, CirD=16.64

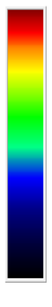


5350.0MHz H+V, Eff: 27.6%

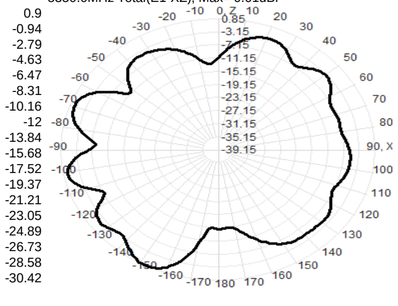


Back View

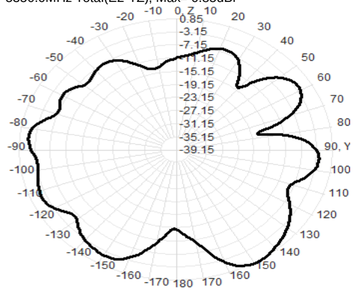




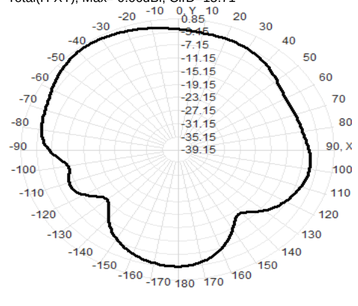
5350.0MHz Total(E1-XZ), Max= 0.61dBi



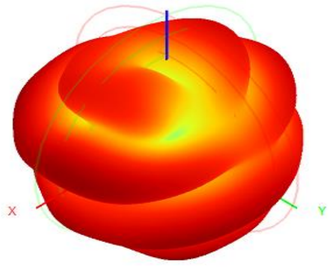
5350.0MHz Total(E2-YZ), Max= 0.85dBi



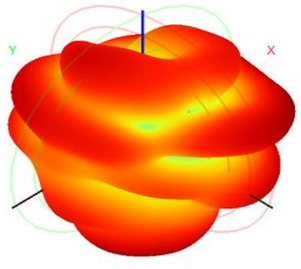
Total(H-XY), Max= 0.06dBi, CirD=15.71

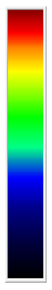


5370.0MHz H+V, Eff: 28.9%

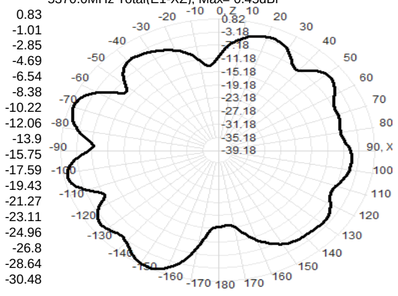


Back View

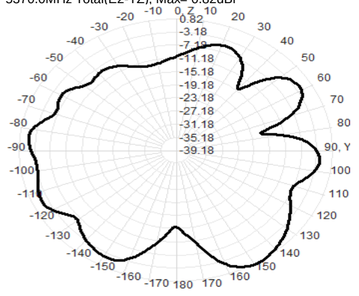




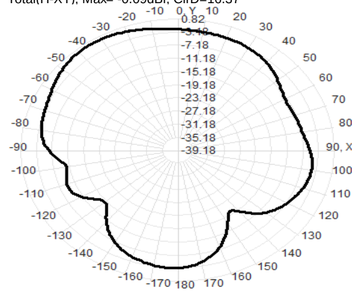
5370.0MHz Total(E1-XZ), Max= 0.45dBi



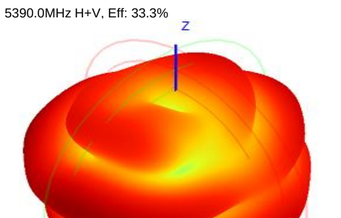
5370.0MHz Total(E2-YZ), Max= 0.82dBi



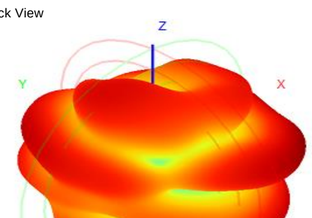
Total(H-XY), Max= -0.09dBi, CirD=16.37

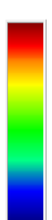


5390.0MHz H+V, Eff: 33.3%

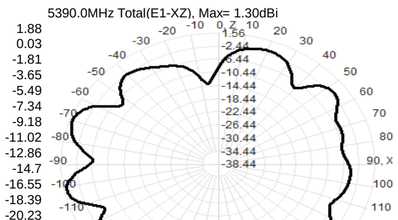


Back View

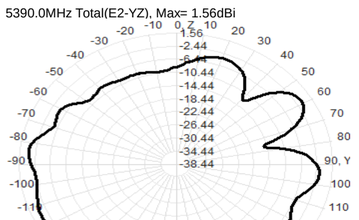




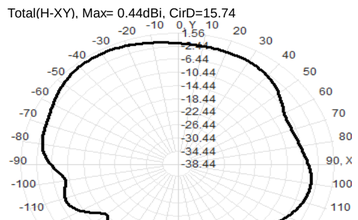
5390.0MHz Total(E1-XZ), Max= 1.30dBi



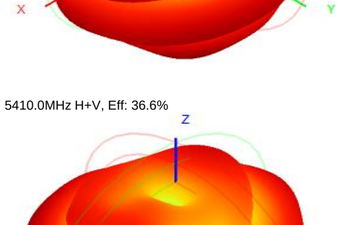
5390.0MHz Total(E2-YZ), Max= 1.56dBi



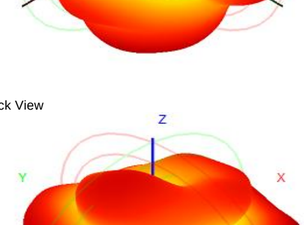
Total(H-XY), Max= 0.44dBi, CirD=15.74



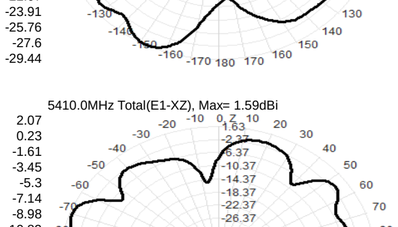
5410.0MHz H+V, Eff: 36.6%



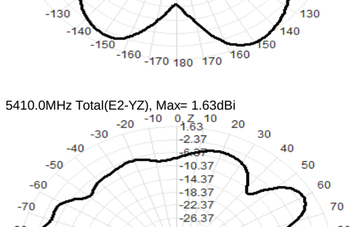
Back View



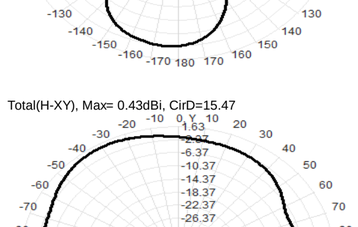
5410.0MHz Total(E1-XZ), Max= 1.59dBi



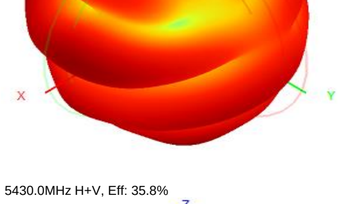
5410.0MHz Total(E2-YZ), Max= 1.63dBi



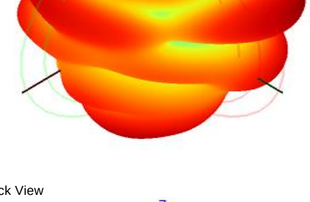
Total(H-XY), Max= 0.43dBi, CirD=15.47



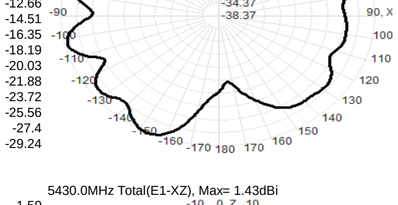
5430.0MHz H+V, Eff: 35.8%



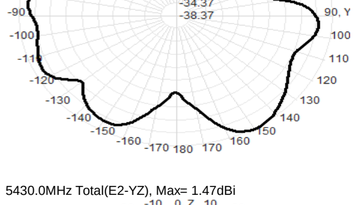
Back View



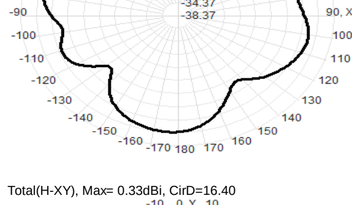
5430.0MHz Total(E1-XZ), Max= 1.43dBi



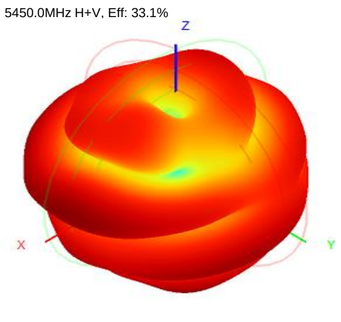
5430.0MHz Total(E2-YZ), Max= 1.47dBi



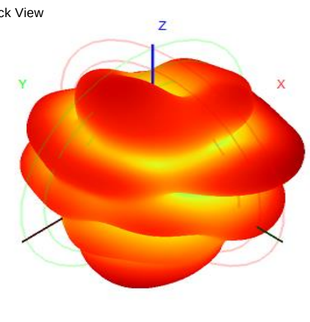
Total(H-XY), Max= 0.33dBi, CirD=16.40

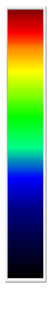


5450.0MHz H+V, Eff: 33.1%

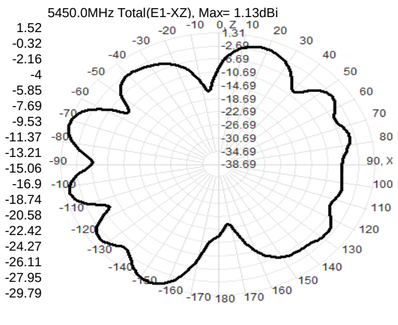


Back View

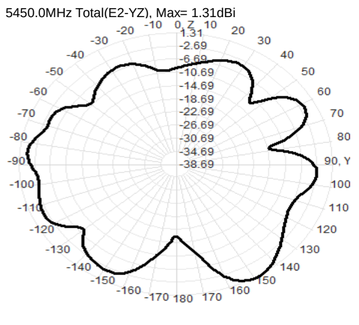




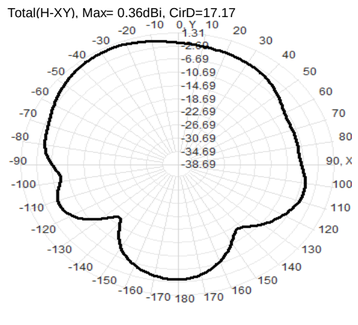
5450.0MHz Total(E1-XZ), Max= 1.13dBi



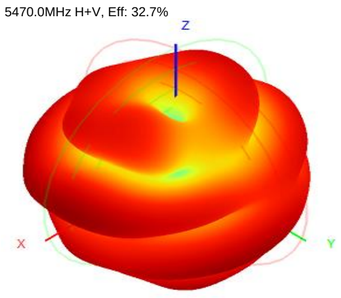
5450.0MHz Total(E2-YZ), Max= 1.31dBi



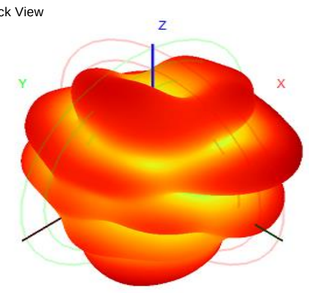
Total(H-XY), Max= 0.36dBi, CirD=17.17

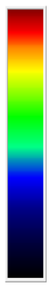


5470.0MHz H+V, Eff: 32.7%

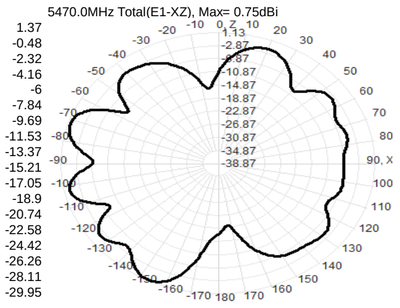


Back View

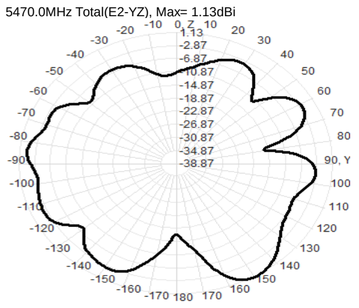




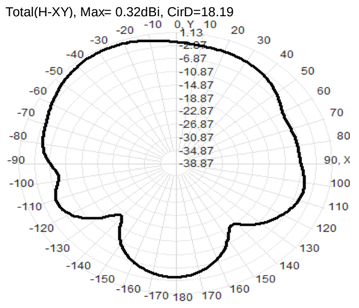
5470.0MHz Total(E1-XZ), Max= 0.75dBi



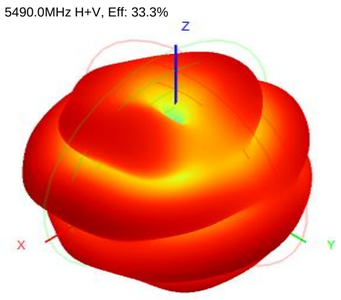
5470.0MHz Total(E2-YZ), Max= 1.13dBi



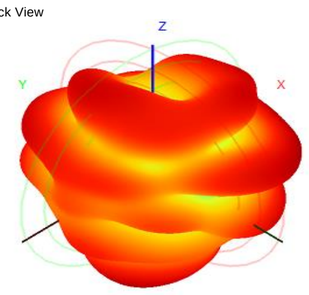
Total(H-XY), Max= 0.32dBi, CirD=18.19

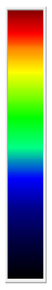


5490.0MHz H+V, Eff: 33.3%

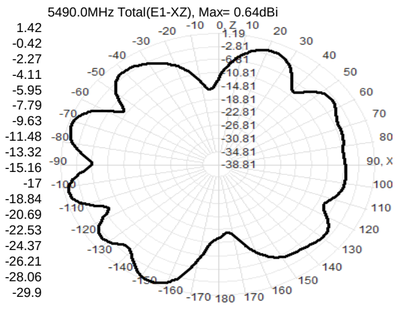


Back View

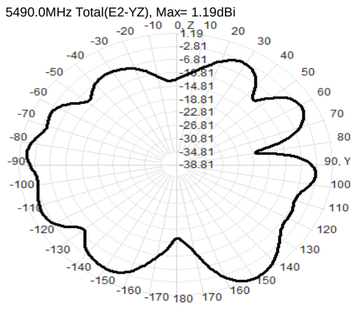




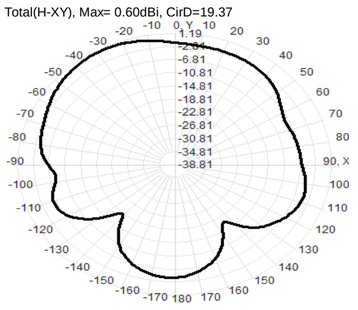
5490.0MHz Total(E1-XZ), Max= 0.64dBi



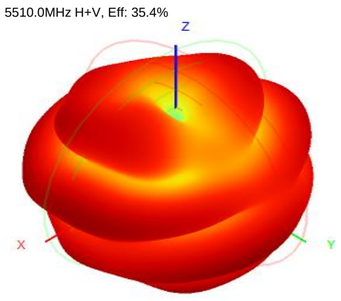
5490.0MHz Total(E2-YZ), Max= 1.19dBi



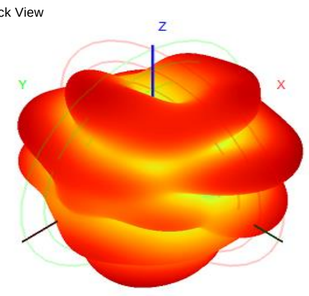
Total(H-XY), Max= 0.60dBi, CirD=19.37

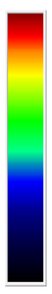


5510.0MHz H+V, Eff: 35.4%

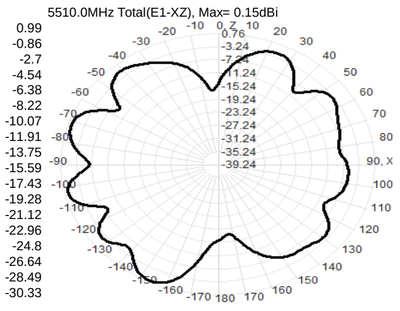


Back View

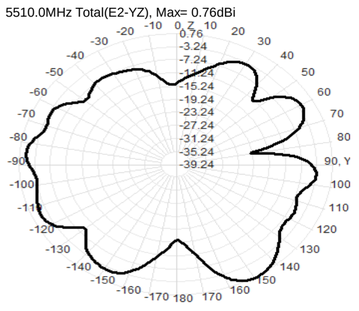




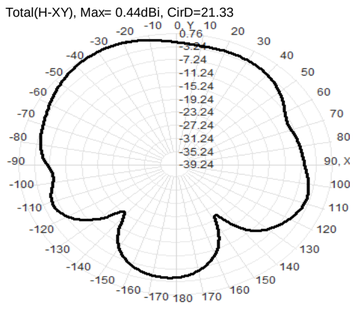
5510.0MHz Total(E1-XZ), Max= 0.15dBi



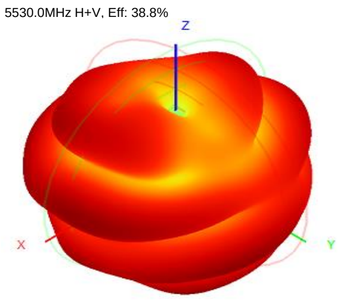
5510.0MHz Total(E2-YZ), Max= 0.76dBi



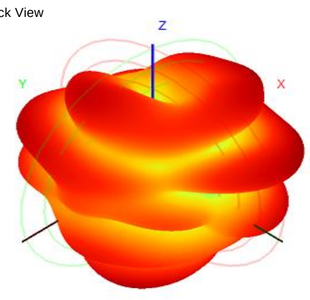
Total(H-XY), Max= 0.44dBi, CirD=21.33

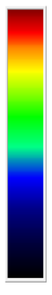


5530.0MHz H+V, Eff: 38.8%

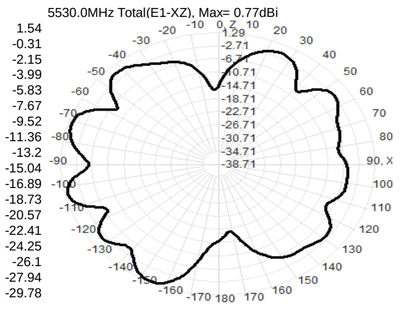


Back View

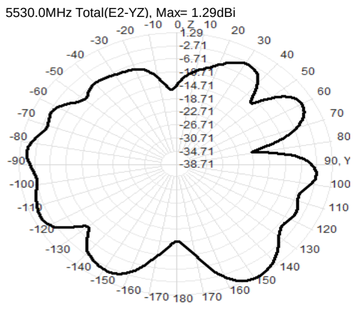




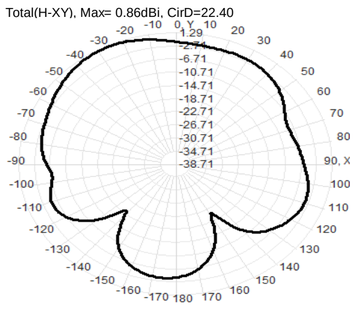
5530.0MHz Total(E1-XZ), Max= 0.77dBi



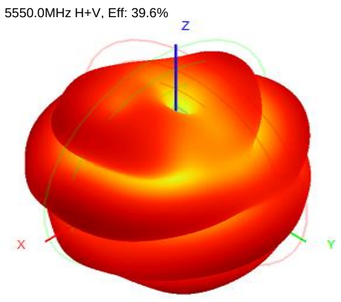
5530.0MHz Total(E2-YZ), Max= 1.29dBi



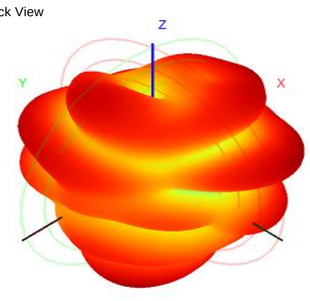
Total(H-XY), Max= 0.86dBi, CirD=22.40

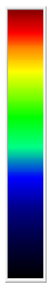


5550.0MHz H+V, Eff: 39.6%

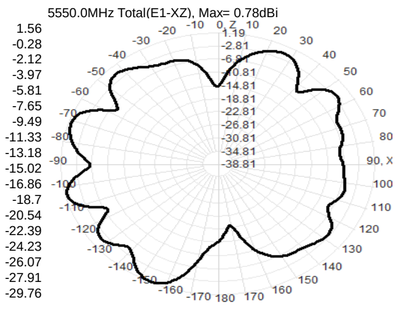


Back View

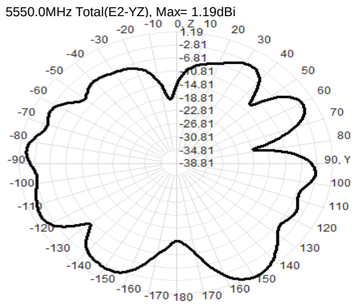




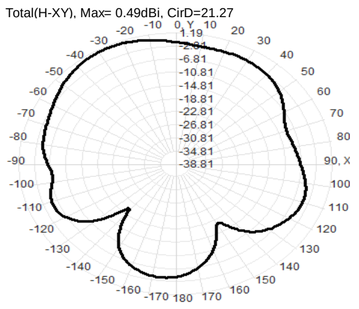
5550.0MHz Total(E1-XZ), Max= 0.78dBi



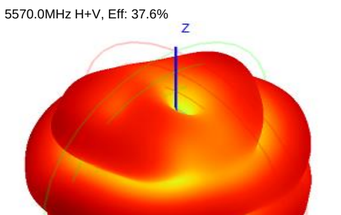
5550.0MHz Total(E2-YZ), Max= 1.19dBi



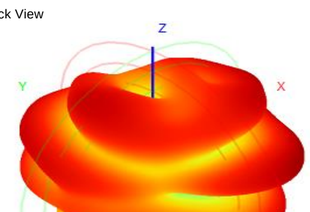
Total(H-XY), Max= 0.49dBi, CirD=21.27



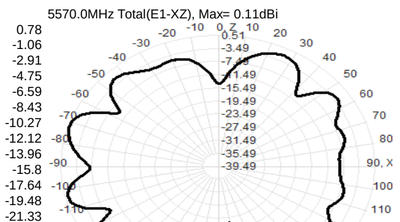
5570.0MHz H+V, Eff: 37.6%



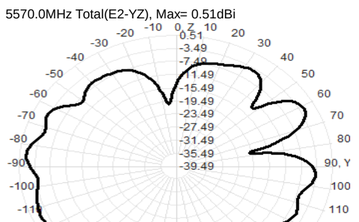
Back View



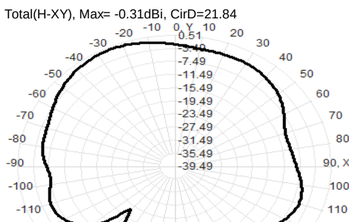
5570.0MHz Total(E1-XZ), Max= 0.11dBi



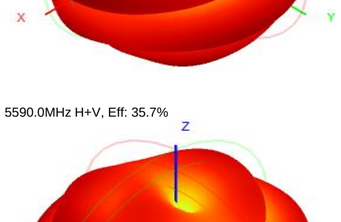
5570.0MHz Total(E2-YZ), Max= 0.51dBi



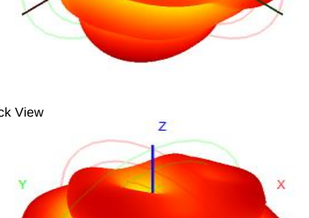
Total(H-XY), Max= -0.31dBi, CirD=21.84



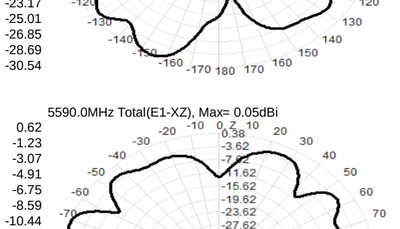
5590.0MHz H+V, Eff: 35.7%



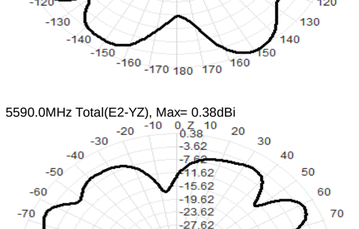
Back View



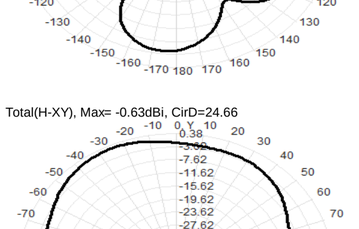
5590.0MHz Total(E1-XZ), Max= 0.05dBi



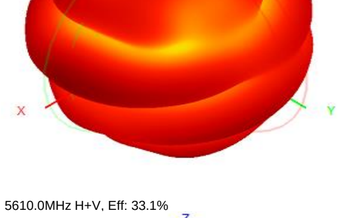
5590.0MHz Total(E2-YZ), Max= 0.38dBi



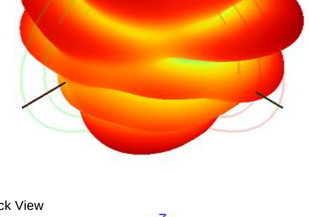
Total(H-XY), Max= -0.63dBi, CirD=24.66



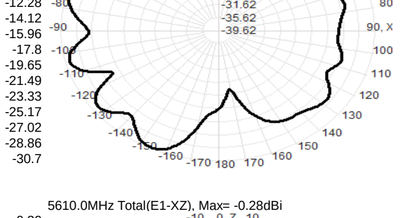
5610.0MHz H+V, Eff: 33.1%



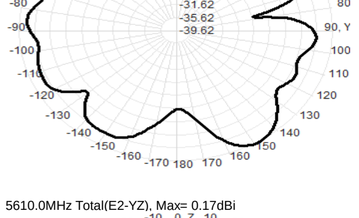
Back View



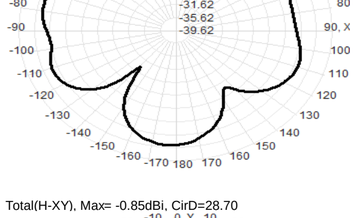
5610.0MHz Total(E1-XZ), Max= -0.28dBi



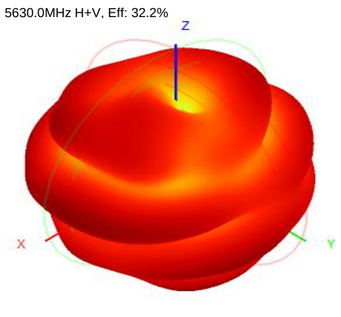
5610.0MHz Total(E2-YZ), Max= 0.17dBi



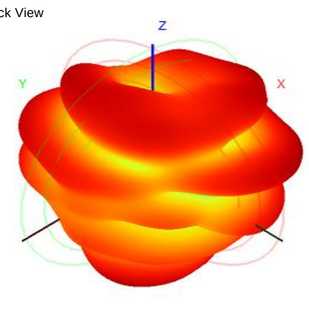
Total(H-XY), Max= -0.85dBi, CirD=28.70

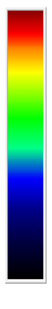


5630.0MHz H+V, Eff: 32.2%

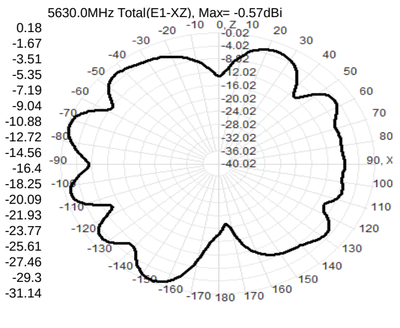


Back View

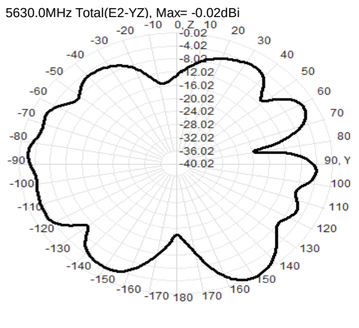




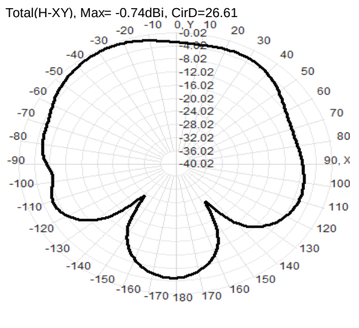
5630.0MHz Total(E1-XZ), Max= -0.57dBi



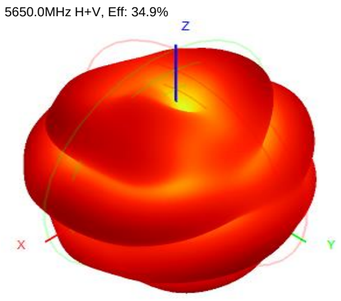
5630.0MHz Total(E2-YZ), Max= -0.02dBi



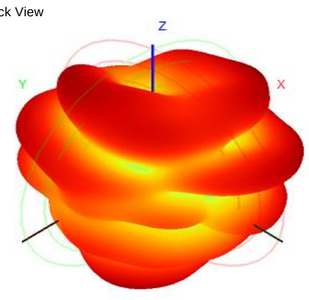
Total(H-XY), Max= -0.74dBi, CirD=26.61

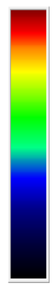


5650.0MHz H+V, Eff: 34.9%

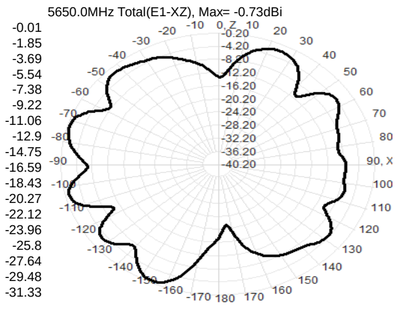


Back View

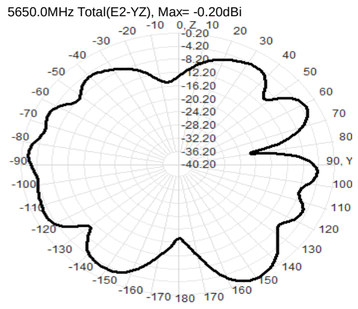




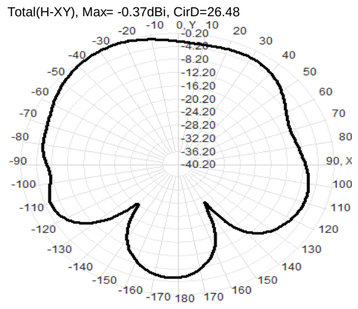
5650.0MHz Total(E1-XZ), Max= -0.73dBi



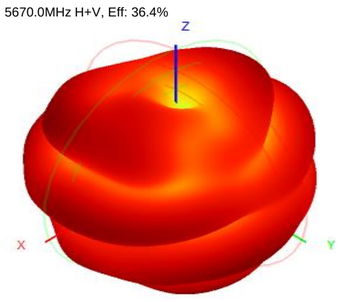
5650.0MHz Total(E2-YZ), Max= -0.20dBi



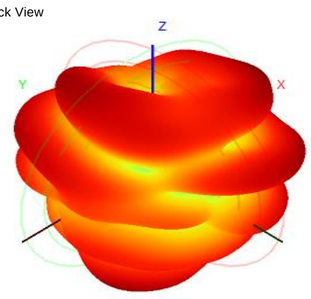
Total(H-XY), Max= -0.37dBi, CirD=26.48

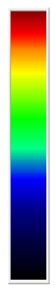


5670.0MHz H+V, Eff: 36.4%

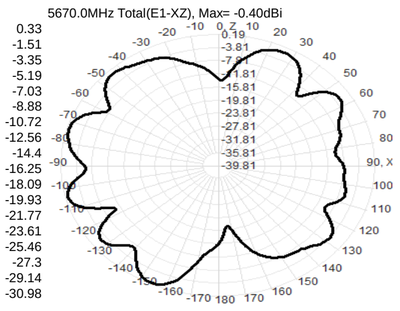


Back View

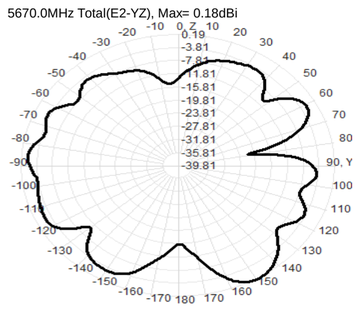




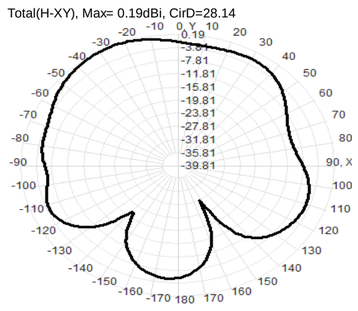
5670.0MHz Total(E1-XZ), Max= -0.40dBi



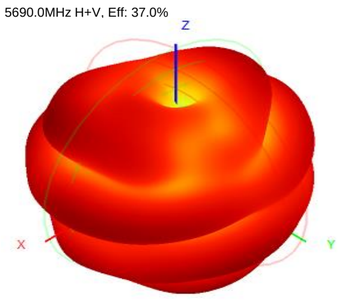
5670.0MHz Total(E2-YZ), Max= 0.18dBi



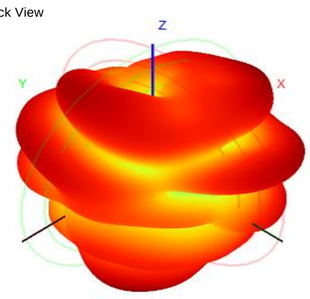
Total(H-XY), Max= 0.19dBi, CirD=28.14

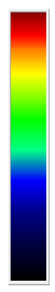


5690.0MHz H+V, Eff: 37.0%

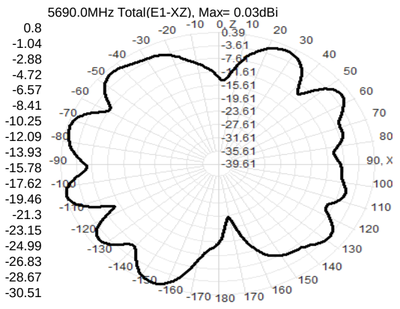


Back View

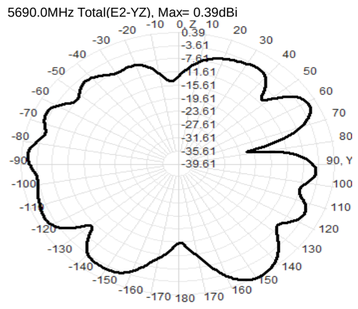




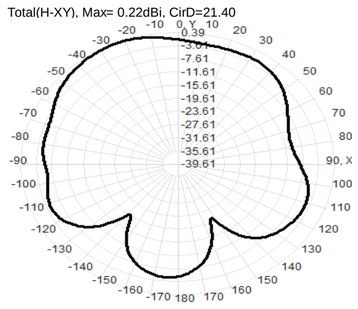
5690.0MHz Total(E1-XZ), Max= 0.03dBi



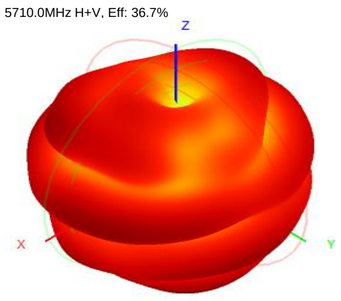
5690.0MHz Total(E2-YZ), Max= 0.39dBi



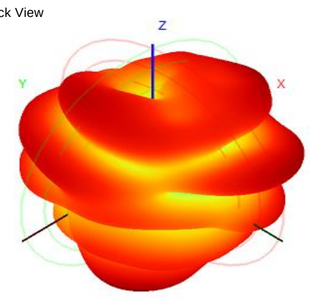
Total(H-XY), Max= 0.22dBi, CirD=21.40

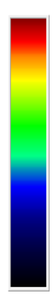


5710.0MHz H+V, Eff: 36.7%

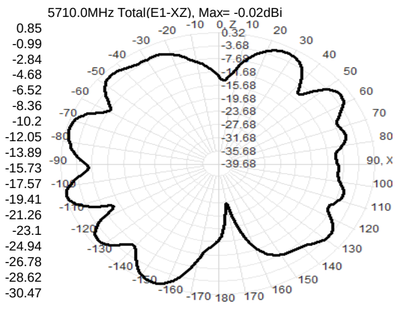


Back View

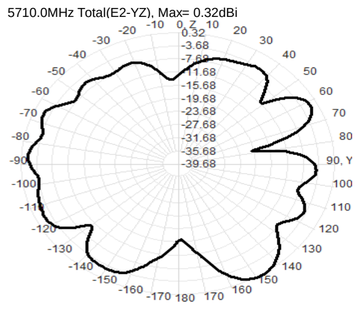




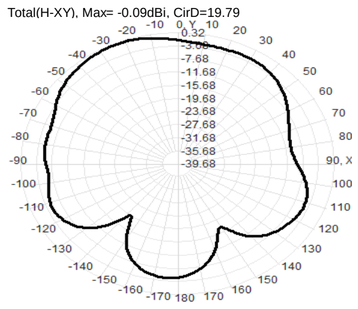
5710.0MHz Total(E1-XZ), Max= -0.02dBi



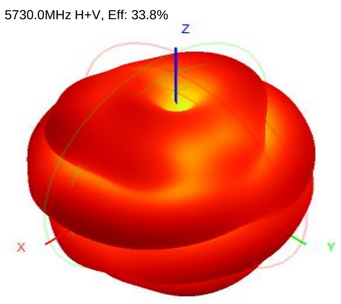
5710.0MHz Total(E2-YZ), Max= 0.32dBi



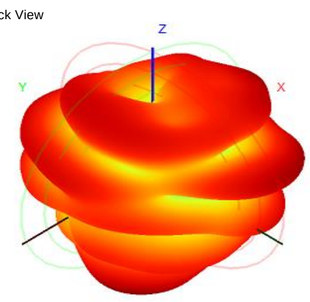
Total(H-XY), Max= -0.09dBi, CirD=19.79

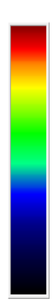


5730.0MHz H+V, Eff: 33.8%

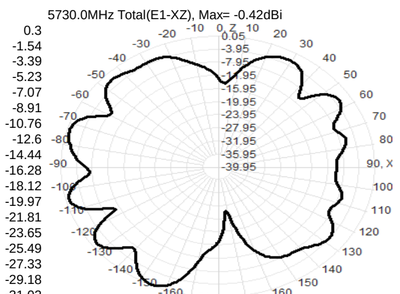


Back View

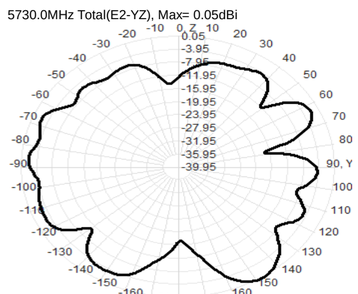




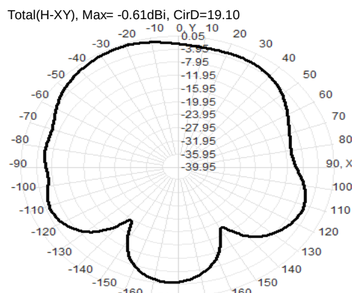
5730.0MHz Total(E1-XZ), Max= -0.42dBi



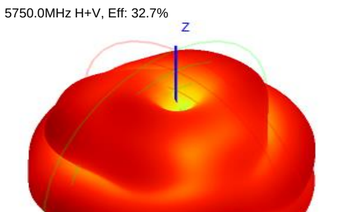
5730.0MHz Total(E2-YZ), Max= 0.05dBi



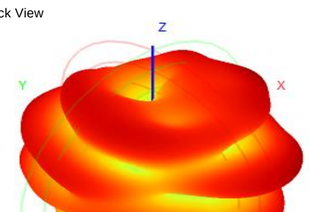
Total(H-XY), Max= -0.61dBi, CirD=19.10



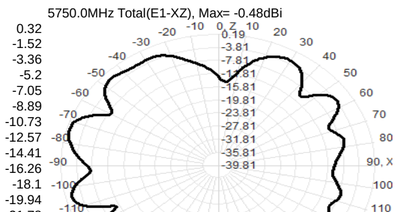
5750.0MHz H+V, Eff: 32.7%



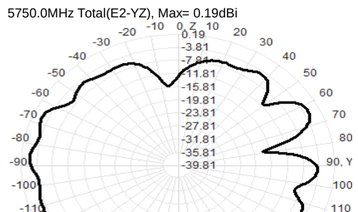
Back View



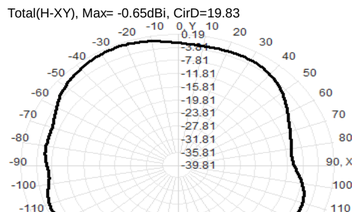
5750.0MHz Total(E1-XZ), Max= -0.48dBi



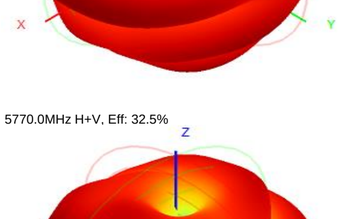
5750.0MHz Total(E2-YZ), Max= 0.19dBi



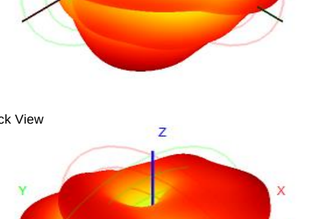
Total(H-XY), Max= -0.65dBi, CirD=19.83



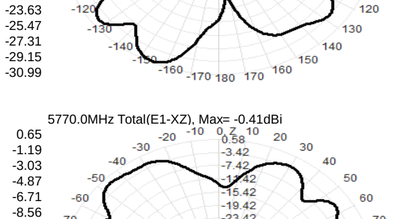
5770.0MHz H+V, Eff: 32.5%



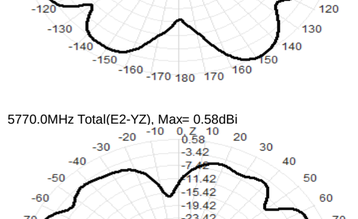
Back View



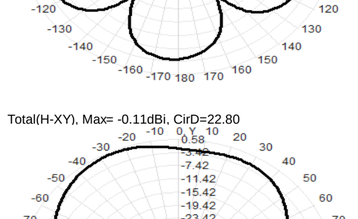
5770.0MHz Total(E1-XZ), Max= -0.41dBi



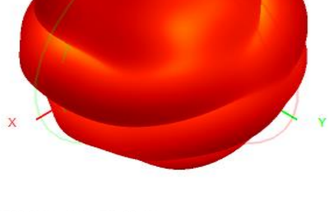
5770.0MHz Total(E2-YZ), Max= 0.58dBi



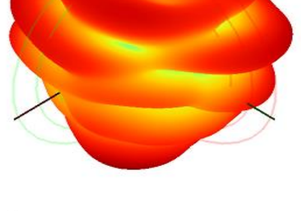
Total(H-XY), Max= -0.11dBi, CirD=22.80



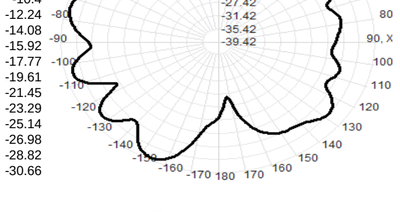
5790.0MHz H+V, Eff: 33.4%



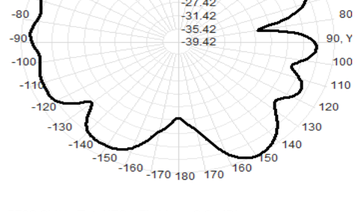
Back View



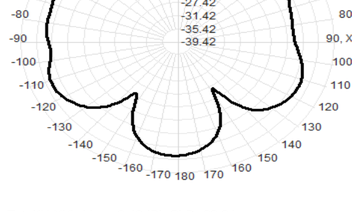
5790.0MHz Total(E1-XZ), Max= -0.45dBi



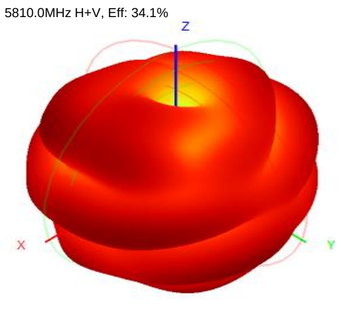
5790.0MHz Total(E2-YZ), Max= 0.64dBi



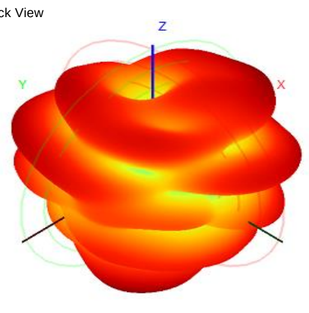
Total(H-XY), Max= 0.40dBi, CirD=23.94

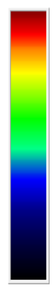


5810.0MHz H+V, Eff: 34.1%

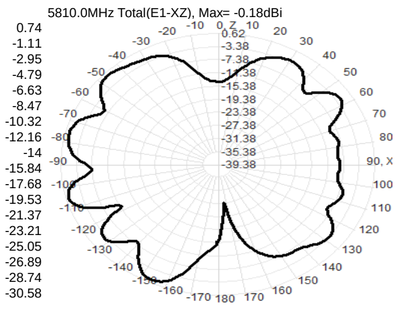


Back View

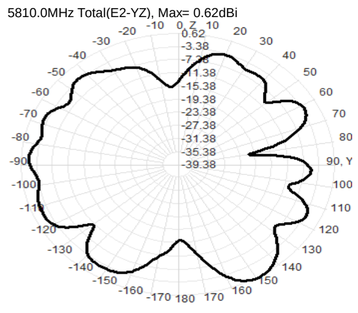




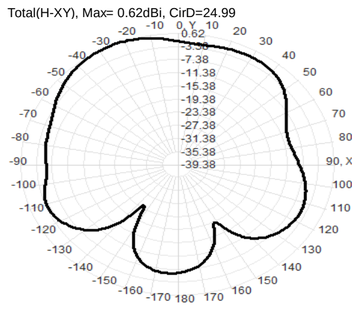
5810.0MHz Total(E1-XZ), Max= -0.18dBi



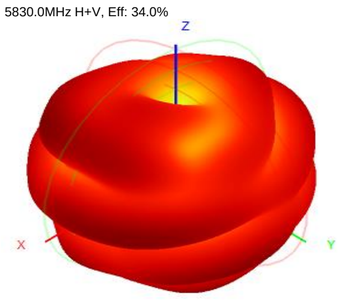
5810.0MHz Total(E2-YZ), Max= 0.62dBi



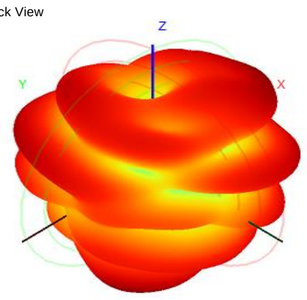
Total(H-XY), Max= 0.62dBi, CirD=24.99

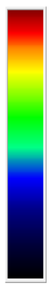


5830.0MHz H+V, Eff: 34.0%

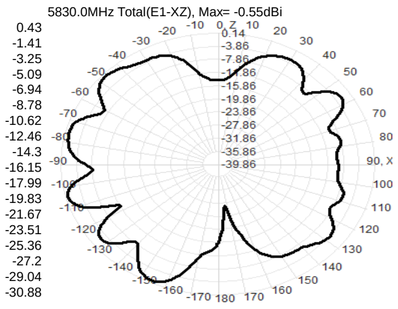


Back View

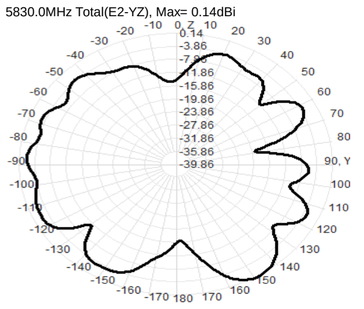




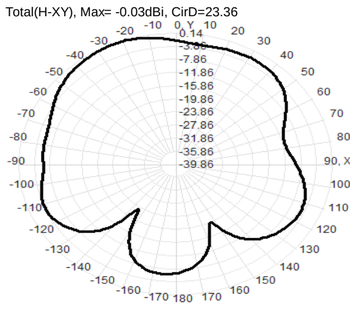
5830.0MHz Total(E1-XZ), Max= -0.55dBi



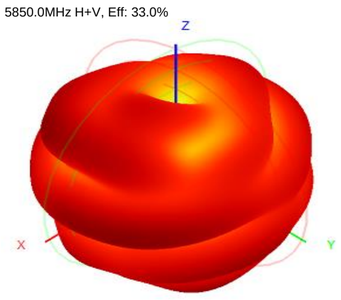
5830.0MHz Total(E2-YZ), Max= 0.14dBi



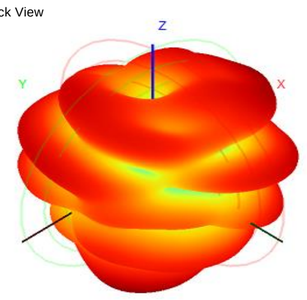
Total(H-XY), Max= -0.03dBi, CirD=23.36

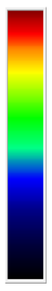


5850.0MHz H+V, Eff: 33.0%

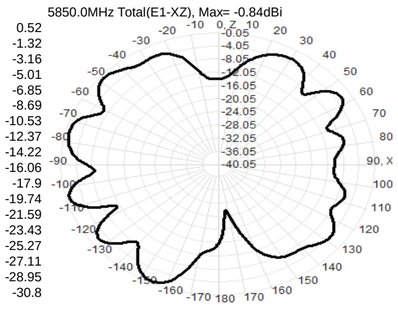


Back View

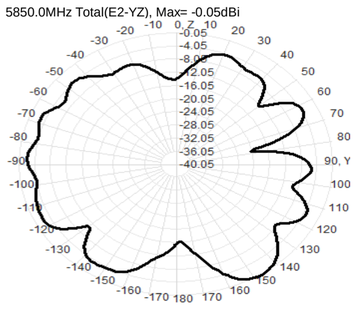
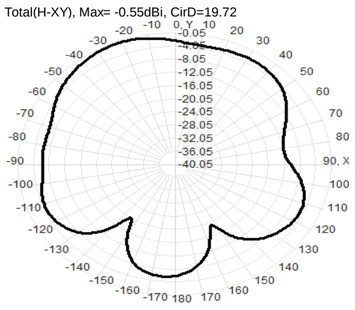




5850.0MHz Total(E1-XZ), Max= -0.84dBi



5850.0MHz Total(E2-YZ), Max= -0.05dBi



Total(H-XY), Max= -0.55dBi, CirD=19.72