

深圳市红心科技电子有限公司

SPECIFICATION FOR APPROVAL

Company Name: _____

Item Name: 2.4G 5.8G glue stick antennaStock Number: HX-AP25-16018-D1

Customer Material Number: _____

Specification: See specificationDate: 2023-04-17

Customer countersign:

Engineering Department	Quality Department	ratify

Shenzhen Hongxin Technology Electronics Co., Ltd.:

Engineering Department	Quality Department	Lister
Xiaoyu Huang	Huan Zhang	Jiayao Zou

phone: 0755-23205219 official website: <http://www.hxrf-antenna.com/>Address: 2F-5F west of Building C10, Xin 'an Second Industrial Zone, Guxing Community,
Xixiang Street, Baoan District, Shenzhen

1: Antenna Parameter

Design Specifications	Typical	Units
Antenna form	glue stick antenna	N/A
working Frequency	2400-2500/5000-5800	MHZ
Gain	8	DBi
Antenna efficiency	35~80	%
VSWR	<1.8	N/A
Axial Ratio	≤4dB	max
Polarization	Vertical polarization	N/A
Radiation pattern	omnibearing	N/A
Impedance	50	ohm
Power handling	33	dbm
Interface	RPSMA	N/A
Antenna Dimension	160*18	mm
Weight	no requirement	kg
Operating Temp	-30-70	°C
Storing Temp	-30-70	°C

2: Antenna diagram



Note: 1.The antenna parameters are tested in a simulated environment, and performance may vary for different products.

2.The antenna functionality is quite sensitive; please inform us for evaluation if there are any changes to the surrounding structure.

3、VSWR/Return Loss/Smith Chart

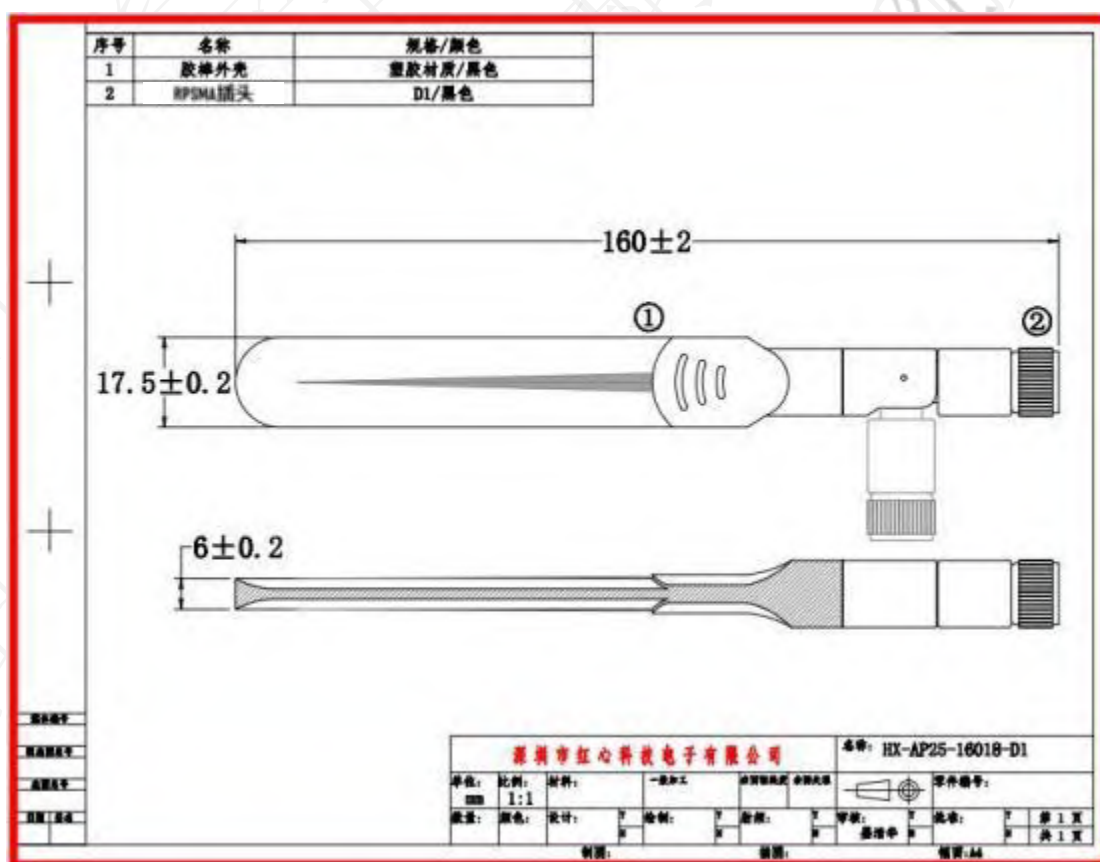


4. Storage environment

operating temperature: -30 to 70° C

storage temperature: -30 to 70° C

5:



Test Data:

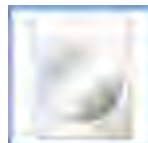
 深圳市红心电子科技有限公司																				
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Frequency (MHz)	2300	2310	2320	2330	2340	2350	2360	2370	2380	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490
Efficiency (dBi)	-2.90	-2.84	-2.77	-2.72	-2.61	-2.63	-2.50	-2.47	-2.47	-2.58	-2.64	-2.63	-2.74	-2.86	-2.87	-2.85	-2.92	-3.04	-3.10	-3.13
Gain (dBi)	0.38	0.44	0.65	0.84	1.03	1.07	1.15	1.04	0.98	1.14	1.30	1.39	1.38	1.37	1.61	1.87	1.95	1.94	1.90	1.77
Efficiency (%)	51.31	51.95	52.82	53.46	54.80	54.63	56.24	56.62	56.59	55.17	54.44	54.60	53.18	51.80	51.67	51.92	51.09	49.65	49.02	48.68
Directivity (dB)	3.28	3.29	3.43	3.56	3.64	3.70	3.65	3.51	3.45	3.72	3.94	4.02	4.12	4.23	4.48	4.71	4.87	4.98	5.00	4.89
Peak Gain Position (Theta)	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	60.00	60.00	60.00	60.00	75.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
Peak Gain Position (Phi)	90.00	90.00	180.00	180.00	165.00	90.00	75.00	75.00	30.00	30.00	30.00	30.00	165.00	120.00	120.00	120.00	120.00	120.00	120.00	120.00
Efficiency ThetaPol (%)	49.19	49.81	50.64	51.16	52.42	52.19	53.65	53.86	53.68	52.16	51.40	51.39	49.90	48.44	48.25	48.36	47.57	46.15	45.54	45.15
Efficiency PhiPol (%)	2.12	2.14	2.18	2.30	2.38	2.44	2.59	2.77	2.91	3.01	3.04	3.21	3.28	3.35	3.42	3.56	3.52	3.50	3.48	3.52
Upper Hem. Efficiency (%)	31.87	32.60	33.64	34.64	36.18	36.78	38.46	38.99	38.96	37.91	37.62	38.10	37.67	37.18	37.49	37.91	37.58	36.87	36.91	37.15
Lower Hem. Efficiency (%)	19.43	19.35	19.18	18.82	18.62	17.85	17.78	17.63	17.63	17.26	16.82	16.51	15.51	14.61	14.16	14.01	13.50	12.78	12.11	11.52
T90(H)角度	2.50	2.61	2.55	2.51	2.43	2.47	2.57	2.99	3.64	4.37	4.40	3.74	3.19	3.35	3.54	4.07	4.53	5.01	5.12	4.64
Gain 15deg (dBi)																				
E1(XZ)波瓣宽度	67.00	63.00	61.00	57.00	44.00	49.00	54.00	56.00	49.00	72.00	70.00	67.00	44.00	50.00	43.00	37.00	35.00	33.00	33.00	32.00
E1(XZ)前后比	8.86	8.68	8.29	7.96	7.50	7.08	6.59	5.94	5.29	5.21	5.21	5.14	5.08	4.75	4.46	4.30	4.36	4.58	4.62	4.52
E2(YZ)波瓣宽度	77.00	76.00	86.00	62.00	59.00	58.00	61.00	64.00	66.00	67.00	67.00	68.00	63.00	62.00	60.00	57.00	50.00	42.00	39.00	39.00
E2(YZ)前后比	11.42	10.94	10.47	9.88	9.40	9.14	8.56	7.88	7.17	6.55	6.28	6.16	6.06	5.91	5.78	5.77	5.99	6.09	6.15	6.02
最大增益处轴比(P)	19.70	17.57	15.91	15.57	17.00	14.72	17.85	16.18	13.62	12.95	12.94	12.87	21.45	14.32	15.37	16.81	19.14	20.98	23.27	27.69
增益(Theta=0)轴比(P)	15.47	15.91	17.42	28.74	28.59	24.99	14.45	14.07	12.33	11.93	11.65	10.12	10.29	6.74	6.00	6.57	5.93	5.36	5.96	6.18
仰角10度增益(大)轴比(P)	55.50	56.43	57.06	53.07	56.91	57.51	98.71	56.27	58.10	62.14	58.07	52.53	68.86	49.86	61.50	73.24	79.04	82.06	79.66	60.20
Hc(XY)波瓣宽度	360.00	360.00	360.00	360.00	360.00	360.00	360.00	360.00	330.00	316.00	325.00	339.00	356.00	352.00	348.00	338.00	331.00	327.00	329.00	334.00
Hc(XY)前后比	0.39	0.24	0.22	0.23	0.28	0.26	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.29	0.16	0.00	0.10	0.19	0.26
左旋圆极化效率(%)	26.44	26.55	26.60	26.21	26.15	25.68	26.26	26.42	26.28	25.84	25.03	24.67	23.76	23.42	23.95	24.81	24.94	24.53	24.58	24.97
右旋圆极化效率(%)	24.87	25.40	26.22	27.25	28.65	28.95	29.98	30.20	30.31	29.33	29.41	29.94	29.42	28.38	27.72	27.11	26.15	25.12	24.44	23.71



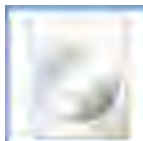
Frequency ID	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Frequency (MHz)	2500	2510	2520	2530	2540	2550	2560	2570	2580	2590	2600	5050	5060	5070	5080	5090	5100	5110	5120	5130
Efficiency (dBi)	-3.11	-3.20	-3.18	-3.17	-3.04	-2.92	-2.77	-2.90	-2.79	-2.84	-2.81	-4.34	-4.60	-4.57	-4.58	-4.66	-4.49	-4.55	-4.35	-4.30
Gain (dBi)	1.71	1.68	1.77	1.80	2.02	2.13	2.21	2.25	2.38	2.31	2.22	1.18	0.82	0.72	0.64	0.58	0.74	0.65	0.88	0.99
Efficiency (%)	48.85	47.84	48.08	48.20	49.71	51.05	52.86	51.30	52.62	51.98	52.38	36.84	34.64	34.89	34.80	34.21	35.58	35.04	36.71	37.13
Directivity (dB)	4.82	4.88	4.95	4.97	5.05	5.05	5.08	5.15	5.17	5.15	5.03	5.52	5.42	5.29	5.23	5.24	5.23	5.20	5.23	5.29
Peak Gain Position (Theta)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	75.00
Peak Gain Position (Phi)	45.00	105.00	105.00	105.00	330.00	315.00	345.00	345.00	345.00	345.00	345.00	75.00	75.00	75.00	75.00	75.00	120.00	75.00	75.00	90.00
Efficiency ThetaPol (%)	45.33	44.32	44.60	44.67	46.19	47.61	49.61	48.41	49.96	49.55	50.12	15.26	13.17	13.45	13.40	13.85	14.21	13.66	15.27	15.68
Efficiency PhiPol (%)	3.52	3.52	3.48	3.53	3.52	3.44	3.25	2.89	2.66	2.42	2.26	1.58	1.48	1.43	1.40	1.35	1.37	1.39	1.44	1.45
Upper Hem. Efficiency (%)	37.85	37.55	38.24	38.66	40.10	41.25	42.79	41.60	42.75	42.15	42.24	21.05	20.00	20.30	20.42	20.29	21.31	21.20	22.39	22.80
Lower Hem. Efficiency (%)	11.00	10.29	9.84	9.54	9.61	9.80	10.07	9.69	9.88	9.83	10.13	15.79	14.64	14.58	14.39	13.92	14.28	13.64	14.32	14.33
T90(H)幅度	4.45	4.41	4.62	4.72	5.23	5.45	5.35	4.68	3.75	2.94	2.57	5.13	5.08	4.78	4.83	5.23	5.23	5.15	5.15	4.98
Gain 15deg (dBi)																				
E1(XZ)波瓣宽度	32.00	32.00	32.00	30.00	27.00	26.00	26.00	26.00	26.00	27.00	28.00	45.00	45.00	44.00	44.00	43.00	42.00	42.00	42.00	43.00
E1(XZ)前后比	4.43	4.33	4.43	4.62	4.99	5.43	5.86	6.25	6.56	6.88	7.18	4.47	4.80	4.98	5.30	5.34	5.27	5.09	5.02	4.95
E2(YZ)波瓣宽度	43.00	46.00	44.00	41.00	40.00	38.00	38.00	39.00	41.00	42.00	45.00	45.00	45.00	45.00	43.00	43.00	44.00	44.00	44.00	43.00
E2(YZ)前后比	5.93	5.96	6.10	6.40	6.59	6.72	7.01	7.23	7.47	7.79	8.09	4.19	3.94	4.06	4.08	4.09	4.09	4.35	4.40	4.44
最大增益处轴比(P)	19.61	42.71	47.88	49.98	22.15	19.22	22.68	22.49	22.35	22.51	23.15	24.70	23.85	23.67	23.43	22.20	25.61	22.27	23.29	15.74
轴比10度扇区(大)轴比(P)	12.54	17.14	16.99	16.51	17.35	20.05	29.21	19.96	16.36	22.72	30.70	13.50	16.27	12.82	18.85	13.86	16.72	19.29	11.94	16.93
轴比10度扇区(大)轴比(P)	68.11	64.17	58.63	63.89	68.17	55.56	68.52	53.68	55.83	78.52	53.00	58.29	61.60	69.72	60.04	66.91	54.34	71.30	60.78	58.24
Hc(XY)波瓣宽度	335.00	335.00	335.00	334.00	331.00	330.00	331.00	334.00	341.00	360.00	360.00	135.00	150.00	301.00	300.00	294.00	293.00	293.00	293.00	294.00
Hc(XY)前后比	0.50	0.23	0.29	0.27	0.69	0.77	0.66	0.43	0.20	0.10	0.00	0.96	0.82	0.65	0.48	0.42	0.38	0.27	0.30	0.47
左旋圆极化效率(%)	25.60	25.41	25.79	26.21	27.05	27.57	28.37	27.16	27.64	27.33	27.51	18.57	17.53	17.60	17.64	17.42	18.14	17.71	18.62	18.88
右旋圆极化效率(%)	23.25	22.42	22.29	22.00	22.66	23.48	24.49	24.13	24.99	24.64	24.87	18.27	17.11	17.29	17.16	16.79	17.44	17.33	18.09	18.25



Frequency ID	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Frequency (MHz)	5140	5150	5160	5170	5180	5190	5200	5210	5220	5230	5240	5250	5260	5270	5280	5290	5300	5310	5320	5330
Efficiency (dBi)	-4.63	-4.55	-4.63	-4.73	-4.63	-4.57	-4.55	-4.53	-4.84	-4.52	-4.93	-4.84	-4.85	-4.88	-4.77	-4.83	-4.65	-4.61	-4.78	-4.68
Gain (dBi)	0.71	0.97	1.11	0.97	1.00	0.98	0.83	0.87	0.60	1.05	0.62	0.67	0.64	0.31	0.41	0.27	0.40	0.56	0.35	0.52
Efficiency (%)	34.45	35.08	34.42	33.68	34.46	34.90	35.07	35.23	32.82	35.32	32.17	32.78	32.76	32.54	33.31	32.89	34.28	34.59	33.27	34.08
Directivity (dB)	5.34	5.52	5.74	5.69	5.62	5.55	5.38	5.40	5.44	5.57	5.55	5.51	5.49	5.18	5.18	5.10	5.05	5.17	5.13	5.19
Peak Gain Position (Theta)	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	75.00	60.00	60.00	60.00	60.00	60.00
Peak Gain Position (Phi)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
Efficiency ThetaPol (%)	33.11	33.70	33.00	32.24	32.95	33.39	33.55	33.63	31.25	33.54	30.48	31.13	31.02	30.81	31.45	30.96	32.34	32.65	31.42	32.21
Efficiency PhiPol (%)	1.34	1.38	1.42	1.44	1.51	1.51	1.51	1.60	1.56	1.79	1.70	1.66	1.74	1.74	1.87	1.93	1.95	1.94	1.84	1.87
Upper Hem. Efficiency (%)	21.33	21.84	21.47	21.13	21.74	22.13	22.29	22.40	20.85	22.39	20.39	20.73	20.64	20.49	20.92	20.50	21.26	21.36	20.40	20.76
Lower Hem. Efficiency (%)	13.12	13.24	12.95	12.55	12.71	12.77	12.78	12.84	11.96	12.93	11.79	12.05	12.12	12.05	12.39	12.38	13.02	13.23	12.66	13.32
T90(H)幅度	4.69	4.78	4.64	4.93	5.05	5.54	5.35	5.01	4.77	4.65	4.31	4.66	4.89	5.37	5.81	5.65	5.64	5.37	4.91	5.21
Gain 15deg (dBi)																				
E1(XZ)波瓣宽度	42.00	42.00	42.00	42.00	43.00	43.00	42.00	41.00	40.00	43.00	44.00	46.00	45.00	46.00	45.00	44.00	46.00	47.00	46.00	46.00
E1(XZ)前后比	5.00	5.10	5.02	4.91	4.73	4.46	4.64	4.73	4.76	4.50	4.19	3.76	3.62	3.81	4.21	4.50	4.08	3.95	4.05	4.17
E2(YZ)波瓣宽度	42.00	41.00	40.00	40.00	41.00	41.00	42.00	43.00	41.00	41.00	40.00	41.00	40.00	41.00	41.00	42.00	40.00	38.00	37.00	35.00
E2(YZ)前后比	4.47	4.60	4.76	4.69	4.60	4.54	4.29	4.32	4.12	4.19	4.11	4.00	4.14	3.83	3.76	3.59	3.51	3.61	3.68	3.81
最大增益处轴比(P)	15.16	16.38	16.66	16.26	16.54	16.47	15.97	15.26	15.99	16.18	17.24	16.74	16.68	15.58	15.54	17.68	17.31	17.33	17.70	17.85
增益(Theta=0)轴比(P)	10.23	9.90	11.69	16.06	9.36	19.31	8.61	29.65	3.05	5.30	4.24	1.97	3.40	6.08	3.81	4.98	4.39	6.06	4.60	5.65
仰角10度最大(P)轴比(P)	54.80	52.85	55.75	52.39	53.09	48.16	51.59	47.23	58.16	73.58	56.23	55.14	61.01	49.18	42.87	55.97	48.42	62.12	58.41	64.16
Hc(XY)波瓣宽度	150.00	112.00	299.00	297.00	293.00	287.00	288.00	183.00	153.00	110.00	155.00	176.00	176.00	144.00	142.00	140.00	143.00	146.00	143.00	143.00
Hc(XY)前后比	0.39	0.43	0.21	0.06	0.11	0.12	0.11	0.00	0.07	0.13	0.14	0.05	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
左旋圆极化效率(%)	17.41	17.80	17.50	17.13	17.52	17.76	17.83	17.89	16.78	18.31	16.63	16.87	16.88	16.65	17.06	16.62	17.28	17.40	16.56	17.01
右旋圆极化效率(%)	17.04	17.28	16.92	16.55	16.94	17.14	17.24	17.34	16.03	17.01	15.55	15.91	15.87	15.89	16.25	16.26	17.00	17.19	16.70	17.07



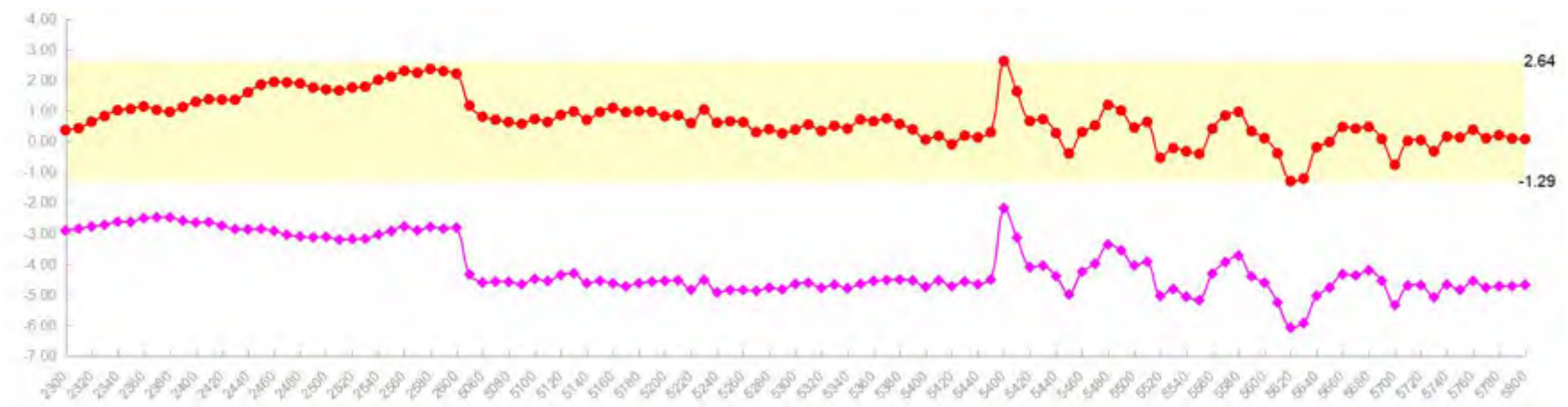
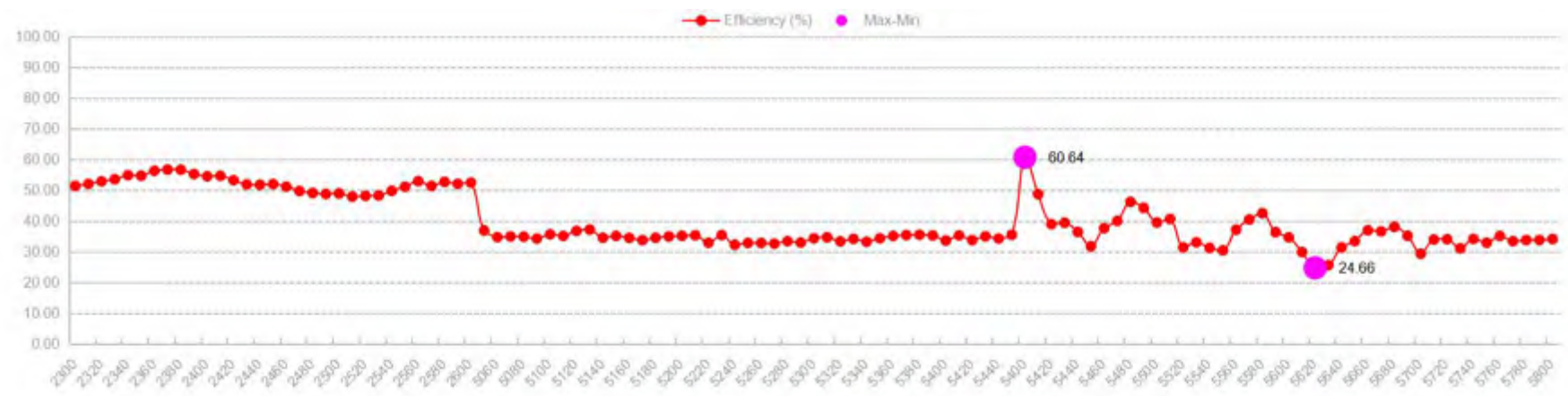
Frequency ID	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
Frequency (MHz)	5340	5350	5360	5370	5380	5390	5400	5410	5420	5430	5440	5450	5460	5470	5480	5490	5500	5510	5520	5530
Efficiency (dBi)	-4.79	-4.65	-4.55	-4.52	-4.51	-4.54	-4.74	-4.53	-4.72	-4.57	-4.66	-4.51	-2.17	-3.13	-4.10	-4.05	-4.40	-4.99	-4.25	-3.99
Gain (dBi)	0.43	0.72	0.67	0.76	0.58	0.40	0.07	0.19	-0.09	0.20	0.14	0.31	2.64	1.64	0.68	0.74	0.28	-0.39	0.31	0.53
Efficiency (%)	33.16	34.28	35.04	35.30	35.43	35.18	33.54	35.22	33.70	34.92	34.20	35.42	60.64	40.65	38.89	39.34	36.35	31.67	37.57	39.93
Directivity (dB)	5.22	5.37	5.22	5.29	5.09	4.94	4.81	4.72	4.64	4.77	4.80	4.82	4.81	4.77	4.78	4.79	4.68	4.61	4.57	4.52
Peak Gain Position (Theta)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00
Peak Gain Position (Phi)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00
Efficiency ThetaPol (%)	31.31	32.41	33.24	33.59	33.79	33.54	32.02	33.65	32.29	33.54	32.87	34.09	58.33	46.93	37.54	38.13	35.16	30.65	36.39	38.59
Efficiency PhiPol (%)	1.66	1.87	1.80	1.71	1.64	1.64	1.51	1.57	1.40	1.37	1.34	1.33	2.31	1.72	1.35	1.21	1.19	1.02	1.18	1.34
Upper Hem. Efficiency (%)	20.04	20.51	20.83	20.90	20.80	20.49	19.31	20.14	19.11	19.63	19.05	19.47	33.38	26.51	20.96	21.15	19.40	16.77	19.78	20.95
Lower Hem. Efficiency (%)	13.13	13.78	14.21	14.40	14.63	14.70	14.23	15.09	14.58	15.29	15.15	15.95	27.26	22.14	17.93	18.19	16.94	14.91	17.79	18.99
T90(H)幅度	5.98	6.42	6.78	7.01	6.62	6.22	5.99	6.14	5.99	6.42	6.58	5.79	6.19	5.80	5.70	5.48	5.10	5.04	5.39	5.09
Gain 15deg (dBi)																				
E1(XZ)波瓣宽度	47.00	47.00	46.00	44.00	42.00	43.00	43.00	43.00	40.00	40.00	37.00	38.00	38.00	37.00	38.00	38.00	37.00	28.00	29.00	29.00
E1(XZ)前后比	4.23	4.48	4.77	4.87	5.33	5.21	5.50	5.31	5.52	5.30	5.71	5.59	5.58	5.65	5.34	5.36	5.63	5.57	5.60	5.88
E2(YZ)波瓣宽度	34.00	33.00	33.00	32.00	33.00	33.00	33.00	32.00	33.00	32.00	32.00	32.00	32.00	32.00	32.00	33.00	32.00	32.00	31.00	30.00
E2(YZ)前后比	4.09	4.27	4.38	4.76	4.53	4.61	4.54	4.71	4.66	5.29	5.12	5.39	5.13	5.38	5.41	5.53	5.34	5.80	5.82	6.02
最大增益处轴比(P)	17.08	16.96	16.82	17.69	18.58	18.43	18.24	20.25	17.58	17.79	17.04	16.58	16.69	17.50	16.18	16.83	16.30	15.43	16.17	15.51
轴比10度最大(P)	7.76	9.12	9.23	12.14	9.48	10.70	9.30	10.75	12.36	14.78	15.62	14.23	17.51	15.53	14.62	15.76	12.26	10.34	13.68	12.45
Hc(XY)波瓣宽度	62.54	64.15	65.28	66.21	64.36	62.76	62.73	55.17	60.90	62.60	66.71	55.53	56.12	54.89	69.29	84.54	67.03	63.28	81.96	91.99
Hc(XY)前后比	135.00	134.00	132.00	130.00	132.00	138.00	126.00	186.00	186.00	184.00	119.00	191.00	195.00	189.00	121.00	118.00	188.00	157.00	157.00	161.00
左旋圆极化效率(%)	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.07	0.00	0.13	0.00	0.09	0.52	0.80	0.53	0.63	0.67	0.73
右旋圆极化效率(%)	16.24	16.57	16.83	16.86	17.00	16.67	15.85	16.61	15.66	16.10	15.80	16.41	28.11	22.58	18.00	18.33	16.98	14.88	17.69	18.96
左旋圆极化效率(%)	16.92	17.71	18.21	18.44	18.43	18.51	17.68	18.62	18.04	18.82	18.41	19.01	32.54	26.07	20.89	21.02	19.36	16.79	19.88	20.97

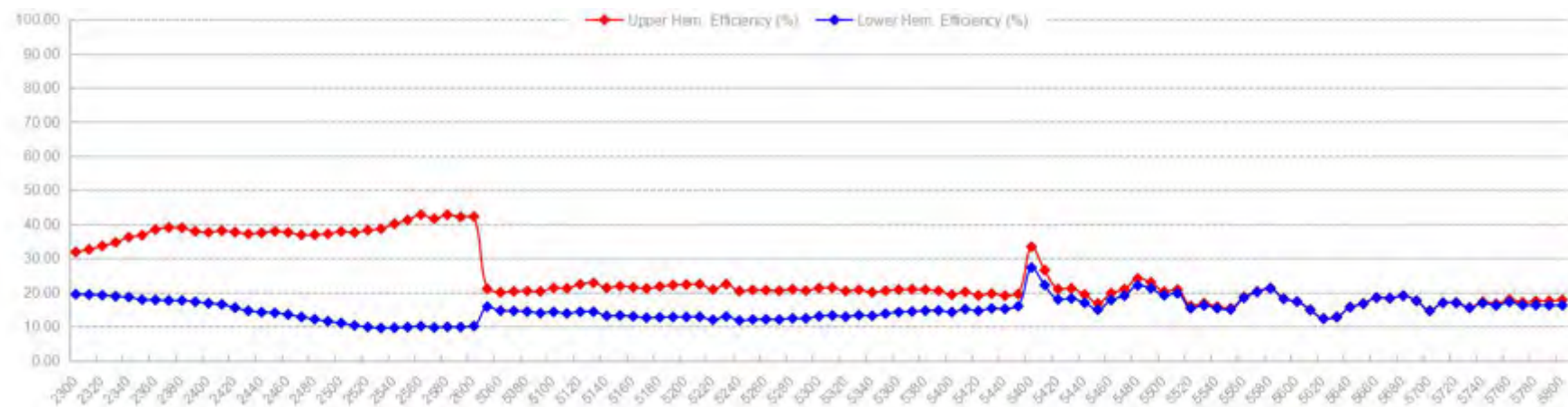
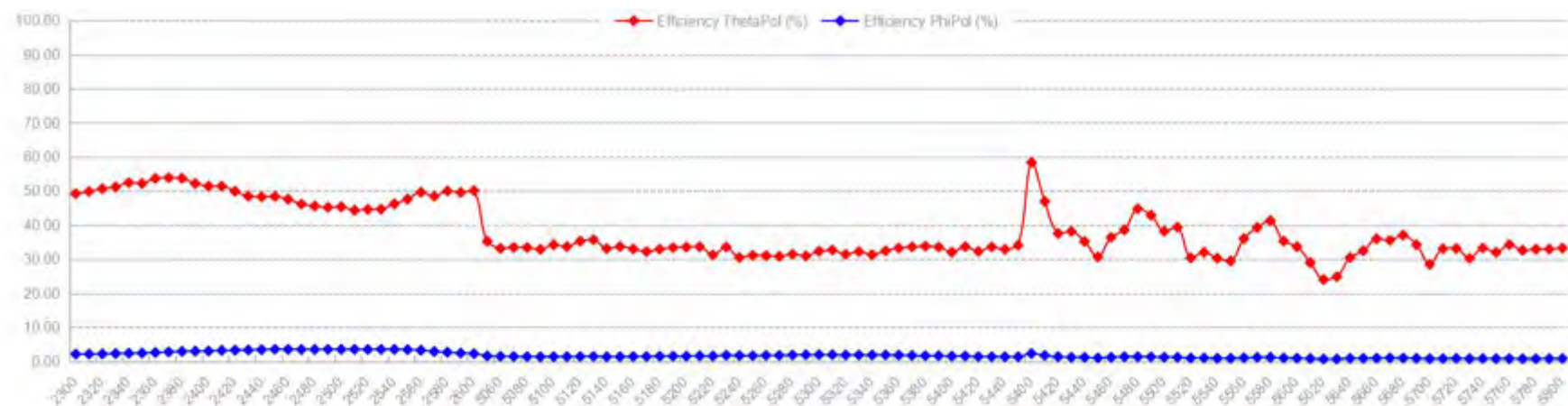


Frequency ID	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Frequency (MHz)	5480	5490	5500	5510	5520	5530	5540	5550	5560	5570	5580	5590	5600	5610	5620	5630	5640	5650	5660	5670
Efficiency (dBi)	-3.36	-3.55	-4.04	-3.92	-5.04	-4.82	-5.07	-5.18	-4.31	-3.94	-3.72	-4.40	-4.61	-5.26	-6.08	-5.92	-5.04	-4.77	-4.33	-4.37
Gain (dBi)	1.20	1.02	0.46	0.65	-0.52	-0.21	-0.22	-0.40	0.43	0.85	0.98	0.35	0.12	-0.38	-1.29	-1.21	-0.18	-0.01	0.48	0.43
Efficiency (%)	46.13	44.18	39.41	40.56	31.33	32.98	31.15	30.35	37.05	40.39	42.43	36.30	34.58	29.81	24.66	25.56	31.33	33.35	36.89	36.55
Directivity (dB)	4.56	4.57	4.51	4.57	4.52	4.61	4.75	4.78	4.74	4.79	4.70	4.75	4.73	4.88	4.79	4.72	4.86	4.76	4.81	4.80
Peak Gain Position (Theta)	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	60.00	105.00	60.00	60.00
Peak Gain Position (Phi)	90.00	90.00	75.00	75.00	75.00	90.00	75.00	75.00	90.00	75.00	90.00	90.00	75.00	75.00	90.00	90.00	75.00	90.00	75.00	75.00
Efficiency ThetaPol (%)	44.79	42.87	38.20	39.37	30.37	31.98	30.26	29.45	36.02	39.23	41.26	35.31	33.65	28.99	23.99	24.86	30.44	32.46	35.96	35.56
Efficiency PhiPol (%)	1.34	1.31	1.22	1.19	0.96	1.00	0.89	0.90	1.03	1.17	1.17	0.99	0.93	0.82	0.67	0.70	0.89	0.89	0.93	0.99
Upper Hem. Efficiency (%)	24.10	22.97	20.27	20.83	16.00	16.80	15.83	15.38	18.68	20.30	21.27	18.24	17.29	14.96	12.41	12.80	15.67	16.64	18.38	18.22
Lower Hem. Efficiency (%)	22.04	21.20	19.14	19.73	15.33	16.18	15.32	14.97	16.37	20.09	21.15	18.05	17.29	14.84	12.25	12.76	15.65	16.71	18.51	18.33
T90(H)幅度	4.96	5.23	5.30	5.19	5.04	5.56	6.66	7.00	6.57	6.23	6.03	5.94	6.96	7.48	8.12	8.18	8.50	10.11	8.90	9.60
Gain 15deg (dBi)																				
E1(XZ)波瓣宽度	31.00	32.00	32.00	31.00	33.00	35.00	34.00	33.00	33.00	32.00	31.00	31.00	31.00	31.00	33.00	32.00	33.00	33.00	30.00	31.00
E1(XZ)前后比	6.00	5.85	5.99	5.84	5.88	6.07	6.28	6.21	6.53	6.72	6.48	6.55	6.83	6.95	7.13	7.50	7.02	7.21	7.98	7.46
E2(YZ)波瓣宽度	29.00	29.00	29.00	29.00	28.00	27.00	27.00	26.00	27.00	26.00	28.00	27.00	27.00	27.00	26.00	27.00	27.00	28.00	29.00	29.00
E2(YZ)前后比	6.17	6.26	6.35	6.30	6.28	6.63	6.72	6.79	6.73	6.96	6.87	7.34	7.50	7.68	7.78	7.65	7.84	8.16	8.06	8.27
最大增益处轴比(P)	24.70	23.82	18.85	18.04	18.48	25.16	18.15	18.21	31.05	18.52	32.80	31.79	20.06	19.75	31.74	35.66	21.66	30.33	21.72	22.47
增益(Theta=0)轴比(P)	10.66	9.71	7.43	7.03	5.89	3.86	4.08	3.01	1.20	3.95	4.51	8.41	10.84	23.15	10.77	6.75	3.00	1.26	1.08	3.69
倾角10度最大(大)轴比(P)	85.83	84.73	66.56	60.76	68.78	58.91	80.48	58.05	63.25	66.40	81.53	61.90	64.36	64.38	77.87	62.77	67.39	66.81	62.10	67.22
Hc(XY)波瓣宽度	164.00	105.00	104.00	111.00	111.00	165.00	161.00	162.00	163.00	166.00	166.00	170.00	171.00	170.00	168.00	169.00	171.00	169.00	167.00	171.00
Hc(XY)前后比	0.39	0.81	1.10	0.89	1.42	1.58	1.96	2.40	2.39	2.22	1.90	2.23	2.68	2.82	3.21	3.17	2.88	3.07	3.51	3.11
左旋圆极化效率(%)	21.94	20.88	18.72	19.42	15.19	15.97	15.14	14.81	18.20	19.97	21.11	18.13	17.42	14.97	12.50	12.93	15.99	16.98	18.73	18.62
右旋圆极化效率(%)	24.19	23.30	20.69	21.14	16.14	17.01	16.01	15.54	18.85	20.42	21.32	18.17	17.15	14.84	12.16	12.62	15.33	16.38	18.16	17.93

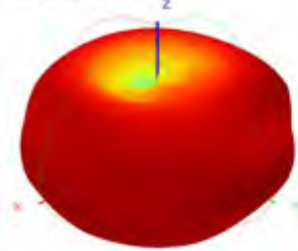


Frequency ID	101	102	103	104	105	106	107	108	109	110	111	112	113
Frequency (MHz)	5680	5690	5700	5710	5720	5730	5740	5750	5760	5770	5780	5790	5800
Efficiency (dBi)	-4.20	-4.55	-5.34	-4.70	-4.69	-5.09	-4.67	-4.84	-4.55	-4.77	-4.72	-4.72	-4.68
Gain (dBi)	0.48	0.09	-0.75	0.03	0.05	-0.31	0.17	0.14	0.39	0.11	0.21	0.10	0.08
Efficiency (%)	38.00	35.11	29.25	33.87	33.97	31.00	34.08	32.81	35.04	33.33	33.70	33.73	34.04
Directivity (dB)	4.69	4.63	4.59	4.73	4.74	4.77	4.84	4.98	4.95	4.89	4.94	4.82	4.76
Peak Gain Position (Theta)	60.00	60.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00
Peak Gain Position (Phi)	75.00	75.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
Efficiency ThetaPol (%)	37.05	34.22	28.49	33.06	33.10	30.23	33.27	32.00	34.24	32.58	32.93	32.95	33.23
Efficiency PhiPol (%)	0.95	0.89	0.76	0.81	0.87	0.78	0.81	0.81	0.80	0.75	0.77	0.79	0.81
Upper Hem. Efficiency (%)	18.99	17.59	14.67	16.96	17.09	15.60	17.24	16.64	17.89	17.08	17.44	17.51	17.82
Lower Hem. Efficiency (%)	19.00	17.52	14.58	16.91	16.88	15.41	16.84	16.17	17.15	16.26	16.27	16.22	16.22
T90(H)闊度	8.67	9.27	9.70	10.03	11.08	11.27	11.09	10.72	10.23	10.68	10.17	10.20	10.34
Gain 15deg (dBi)													
E1(XZ)波瓣寬度	30.00	29.00	31.00	32.00	31.00	32.00	32.00	30.00	30.00	29.00	29.00	28.00	28.00
E1(XZ)前后比	7.64	7.72	8.04	8.09	8.20	8.02	7.89	8.40	8.36	8.14	8.18	8.05	8.11
E2(YZ)波瓣寬度	29.00	29.00	29.00	28.00	27.00	27.00	26.00	26.00	25.00	25.00	26.00	25.00	25.00
E2(YZ)前后比	8.42	8.58	8.77	8.45	8.57	8.57	8.46	8.57	8.65	8.39	8.60	8.71	8.37
最大增益处轴比(P)	21.74	23.78	35.92	30.92	38.59	38.38	63.38	34.33	31.56	31.85	30.29	31.47	27.14
顶点(Theta=0)处轴比(P)	0.80	2.76	3.65	3.03	5.99	8.40	7.26	7.39	6.27	8.67	10.88	11.46	19.77
仰角10度最差(大)轴比(P)	72.24	74.75	74.00	60.48	62.12	66.02	80.31	67.74	56.54	78.24	67.91	74.07	56.32
Hc(XY)波瓣寬度	173.00	181.00	186.00	189.00	178.00	167.00	164.00	166.00	166.00	166.00	195.00	203.00	200.00
Hc(XY)前后比	2.97	2.90	2.55	2.66	2.80	2.98	2.98	2.97	3.04	3.04	2.75	2.46	2.52
左旋圆极化效率(%)	19.39	17.94	15.00	17.44	17.37	15.83	17.43	16.83	18.08	17.13	17.25	17.32	17.35
右旋圆极化效率(%)	18.61	17.17	14.25	16.43	16.59	15.17	16.65	15.98	16.96	16.20	16.45	16.42	16.69

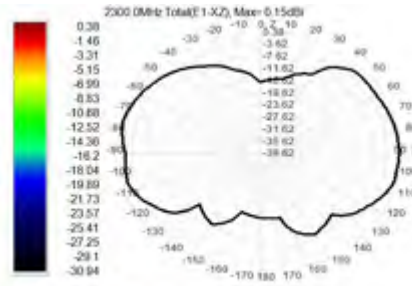
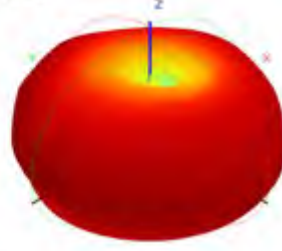




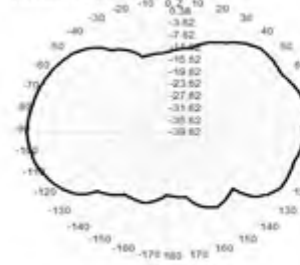
2300 MHz H+V, EF 51.3%



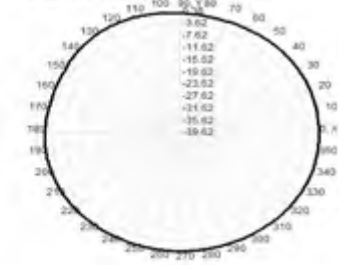
Back View



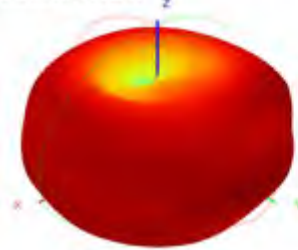
2300 MHz Total(E2-YZ), Max=0.38dB



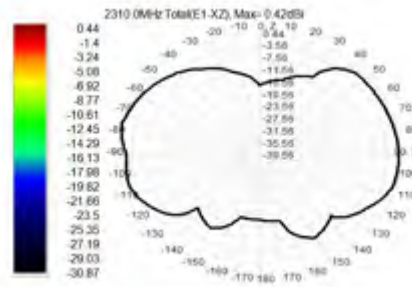
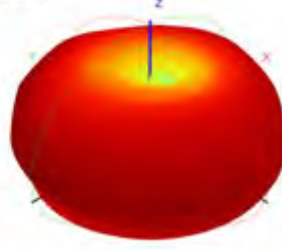
Total(H+V), Max=0.16dB, CnD=2.50



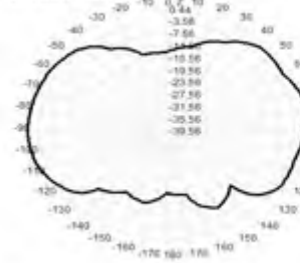
2310 MHz H+V, EF 52.0%



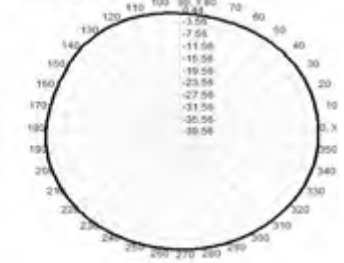
Back View



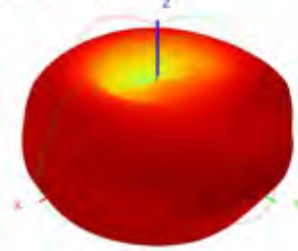
2310 MHz Total(E2-YZ), Max=0.44dB



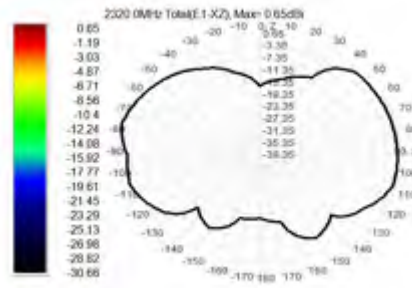
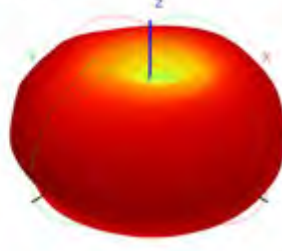
Total(H+V), Max=0.04dB, CnD=2.61



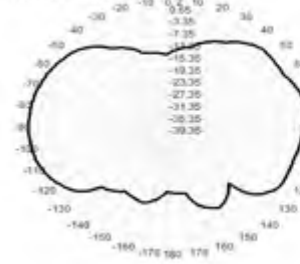
2320 MHz H+V, EF 52.8%



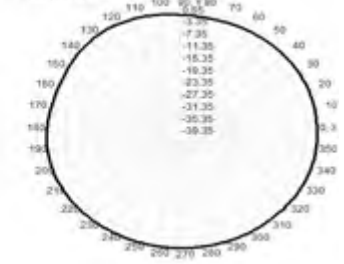
Back View



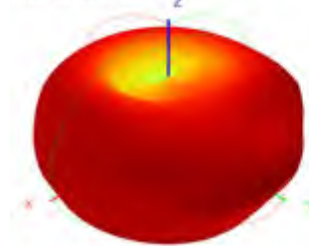
2320 MHz Total(E2-YZ), Max=0.64dB



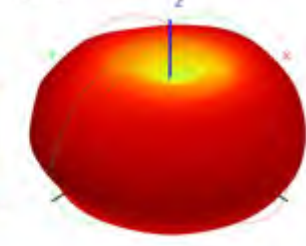
Total(H+V), Max=0.17dB, CnD=2.55



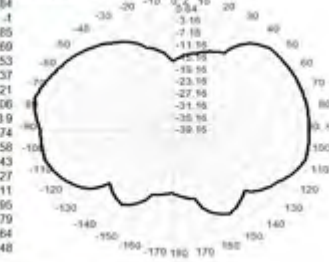
2330 MHz H+V, EF 53.5%



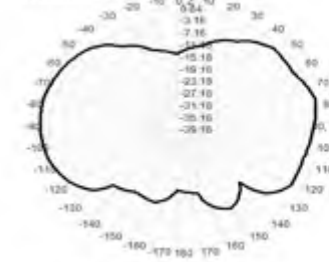
Back View



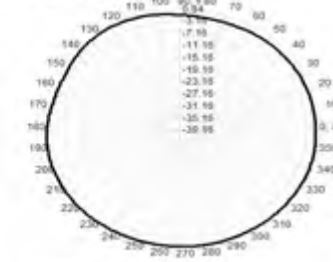
2330 MHz Total(E1-XZ), Max= 0.84dB



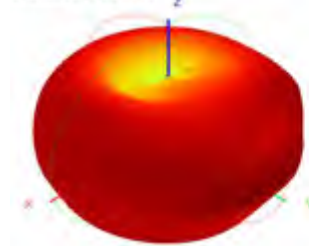
2330 MHz Total(E2-YZ), Max= 0.79dB



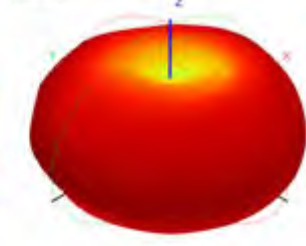
Total(H+V), Max= -0.20dB, CnD=2.51



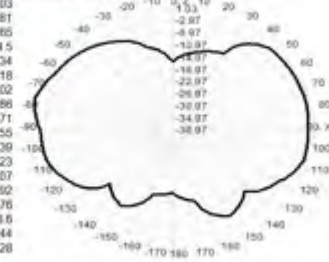
2340 MHz H+V, EF 54.6%



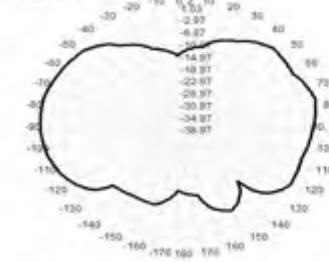
Back View



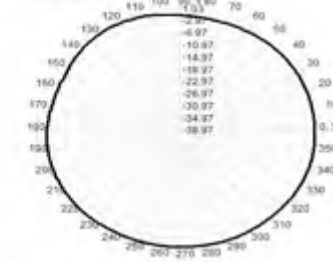
2340 MHz Total(E1-XZ), Max= 1.03dB



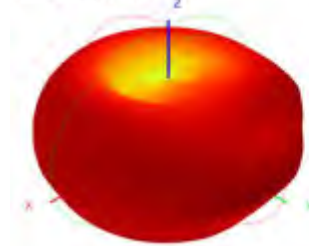
2340 MHz Total(E2-YZ), Max= 1.03dB



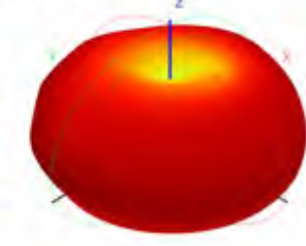
Total(H+V), Max= -0.02dB, CnD=2.43



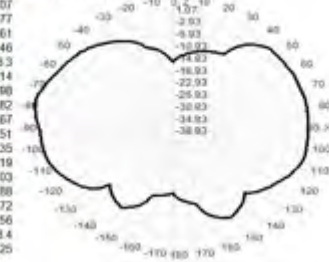
2350 MHz H+V, EF 54.6%



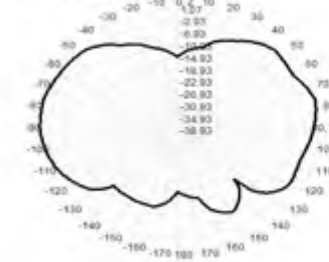
Back View



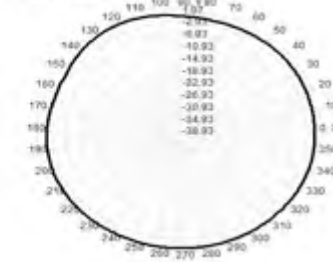
2350 MHz Total(E1-XZ), Max= 0.93dB



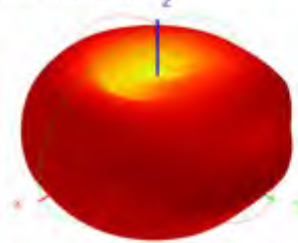
2350 MHz Total(E2-YZ), Max= 1.07dB



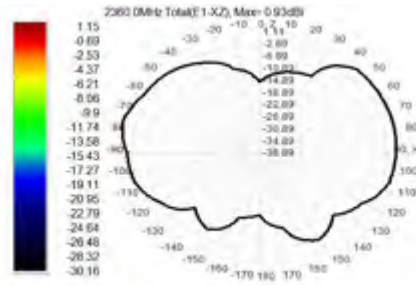
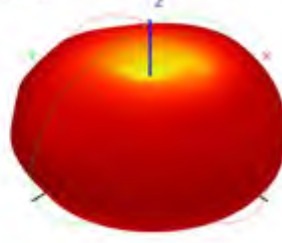
Total(H+V), Max= 0.10dB, CnD=2.47



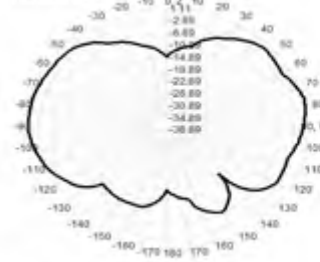
2360 MHz H+V, E/F 56.2%



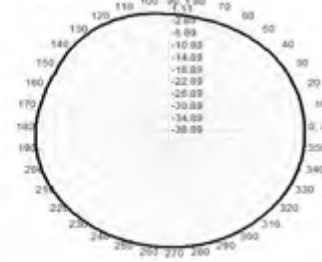
Back View



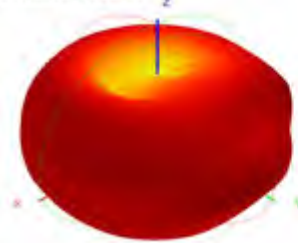
2360 MHz Total(E2-YZ), Max=1.11dB



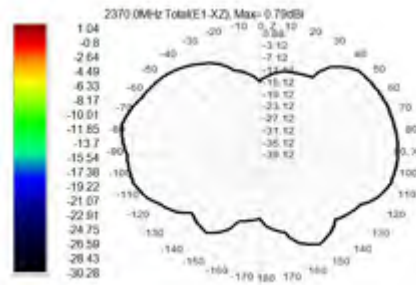
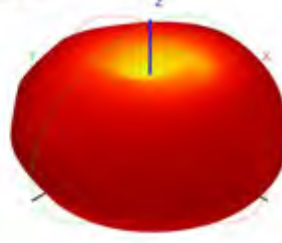
Total(H+XY), Max=0.32dB, CirD=2.57



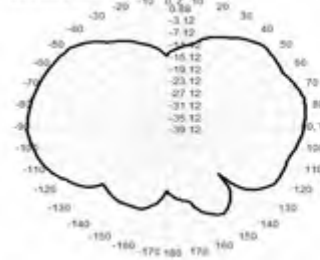
2370 MHz H+V, E/F 56.0%



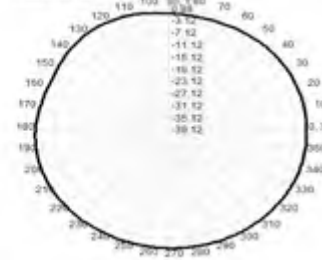
Back View



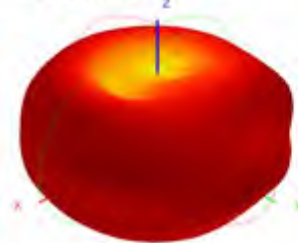
2370 MHz Total(E2-YZ), Max=0.88dB



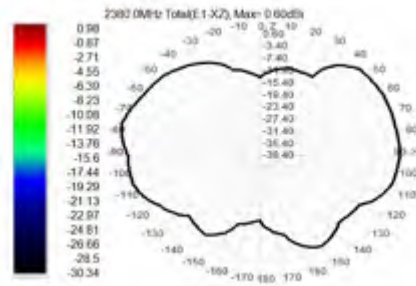
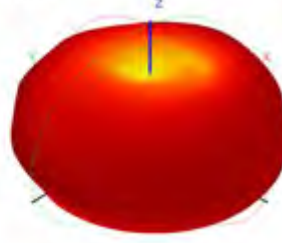
Total(H+XY), Max=0.38dB, CirD=2.60



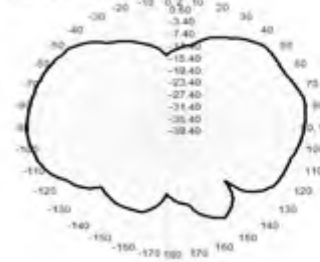
2380 MHz H+V, E/F 56.6%



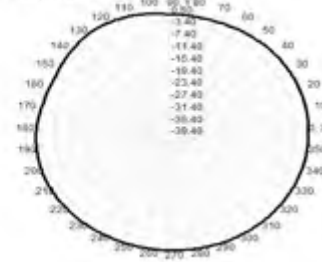
Back View



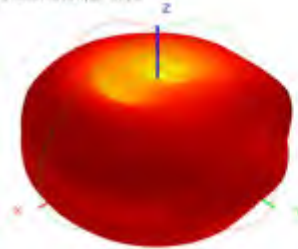
2380 MHz Total(E2-YZ), Max=0.60dB



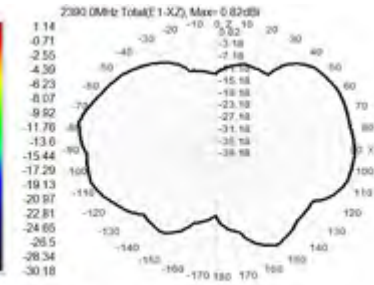
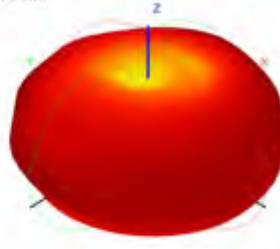
Total(H+XY), Max=0.46dB, CirD=3.64



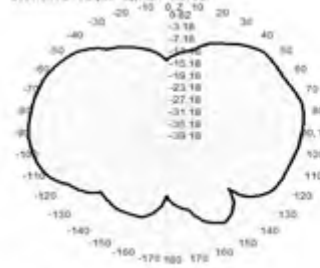
2300 MHz H+V, EE 55.2%



Back View



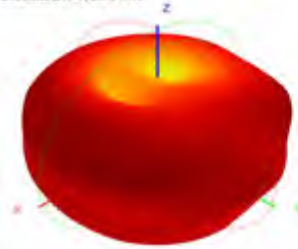
2300 MHz Total(E2-YZ), Max=0.27dB



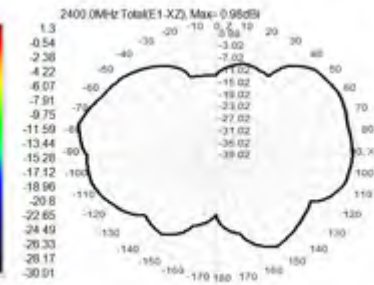
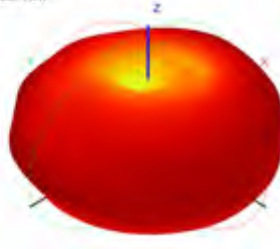
Total(H+V), Max=0.29dB, CnD=4.37



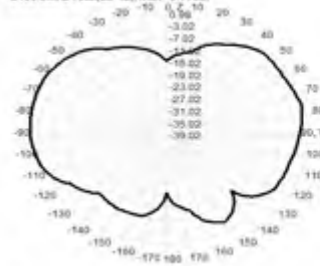
2400 MHz H+V, EE 54.4%



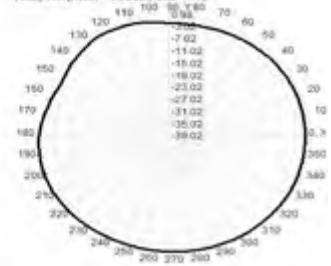
Back View



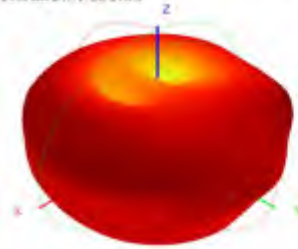
2400 MHz Total(E2-YZ), Max=0.11dB



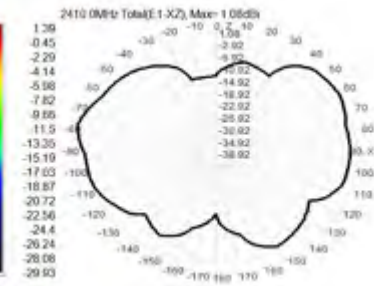
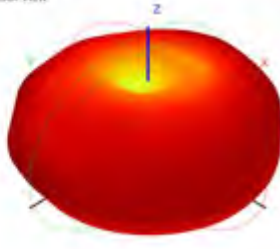
Total(H+V), Max=0.08dB, CnD=4.40



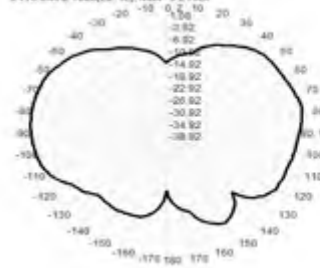
2410 MHz H+V, EE 54.6%



Back View



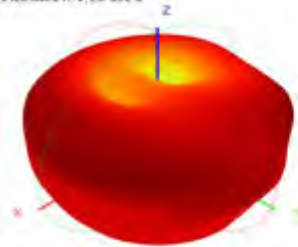
2410 MHz Total(E2-YZ), Max=0.21dB



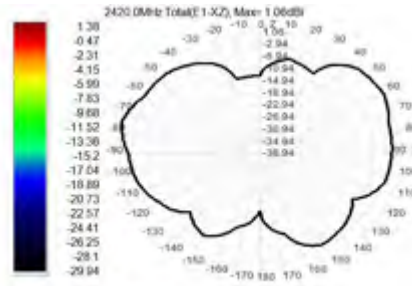
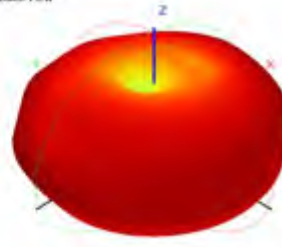
Total(H+V), Max=0.46dB, CnD=3.74



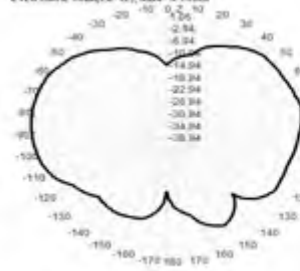
2420 MHz H+V, EE 53.2%



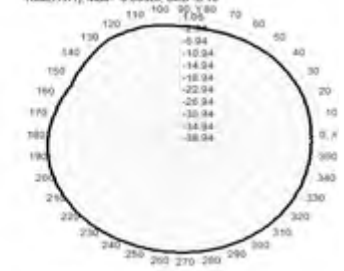
Back View



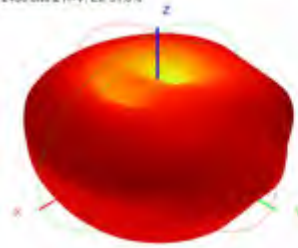
2420 MHz Total(E2-YZ), Max=0.19dB



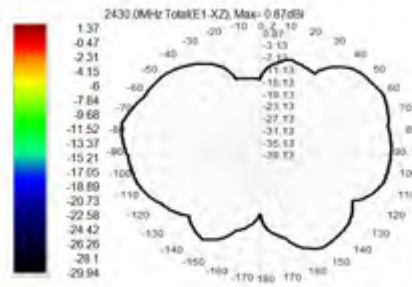
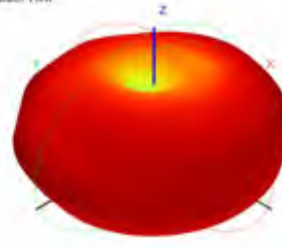
Total(H+V), Max= -0.90dB, Cx/D=3.19



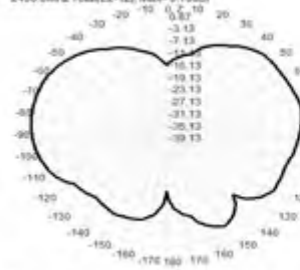
2430 MHz H+V, EE 51.8%



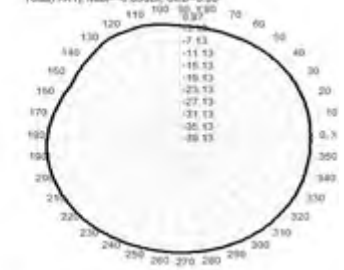
Back View



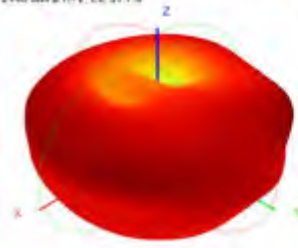
2430 MHz Total(E2-YZ), Max=0.10dB



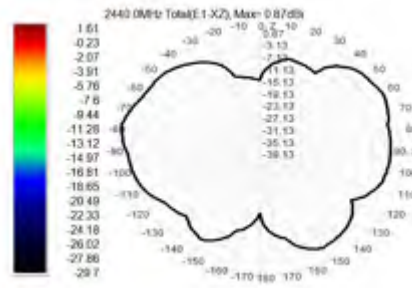
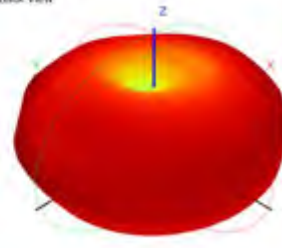
Total(H+V), Max= -0.63dB, Cx/D=3.35



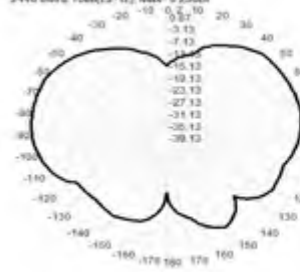
2440 MHz H+V, EE 51.7%



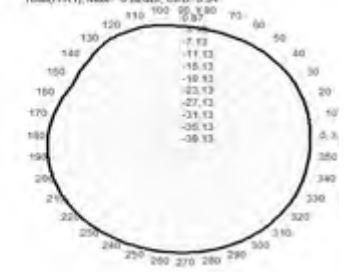
Back View



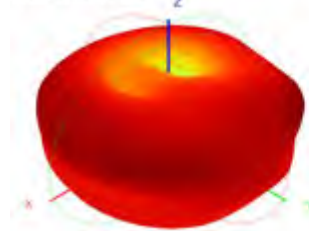
2440 MHz Total(E2-YZ), Max=0.23dB



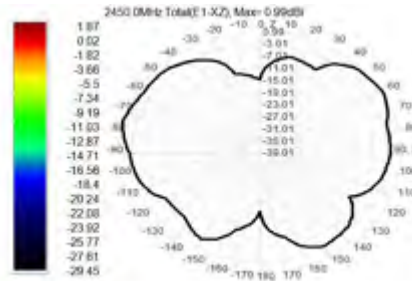
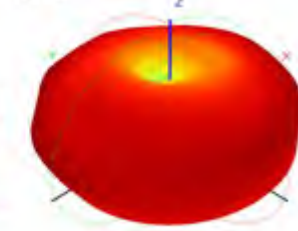
Total(H+V), Max= -0.60dB, Cx/D=3.54



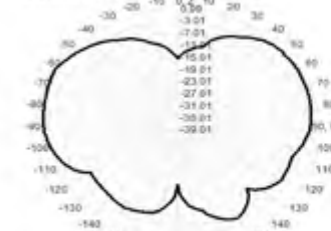
2450.0MHz H+V, EE 51.9%



Back View



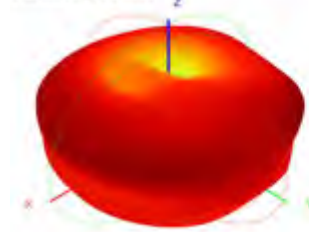
2450.0MHz Total(E2-YZ), Max=0.56dB



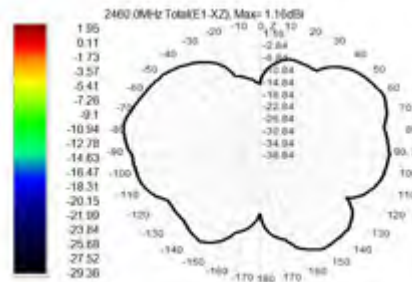
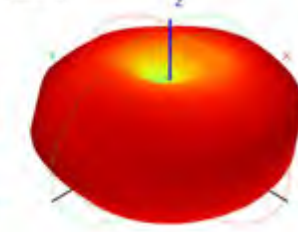
Total(H+V), Max=0.60dB, Cx/D=4.07



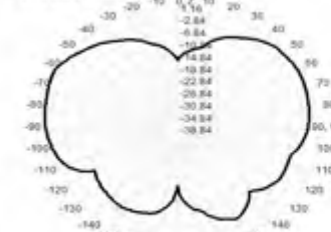
2460.0MHz H+V, EE 51.1%



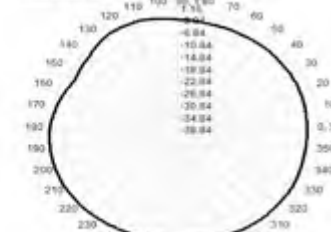
Back View



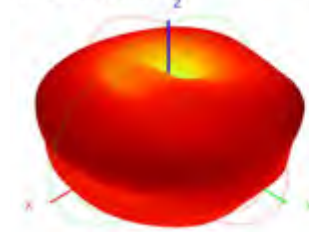
2460.0MHz Total(E2-YZ), Max=0.82dB



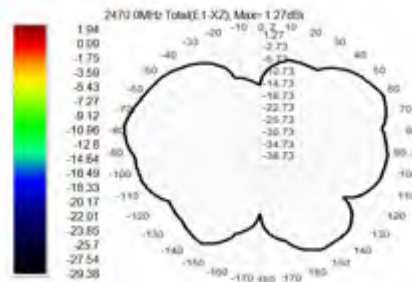
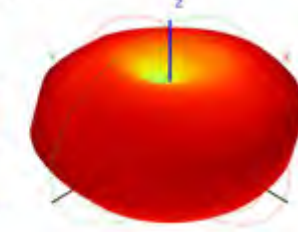
Total(H+V), Max=1.29dB, Cx/D=4.53



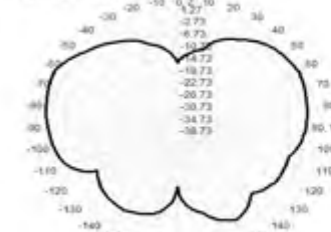
2470.0MHz H+V, EE 49.7%



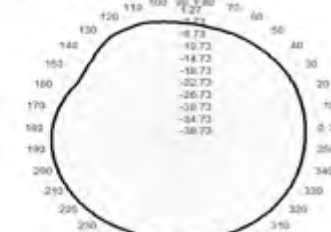
Back View



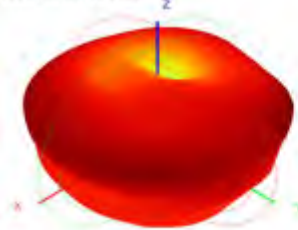
2470.0MHz Total(E2-YZ), Max=0.97dB



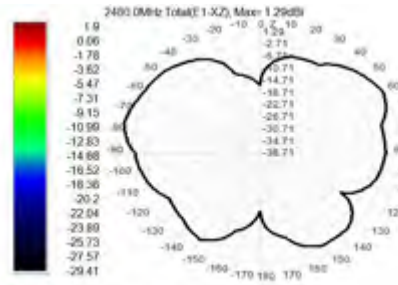
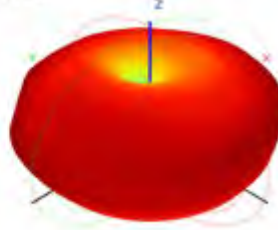
Total(H+V), Max=1.79dB, Cx/D=5.01



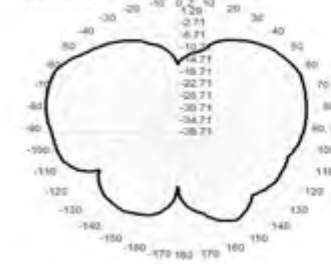
2480 MHz H+V, EE 49.0%



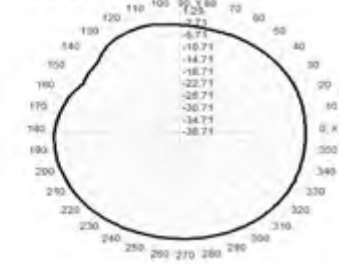
Back View



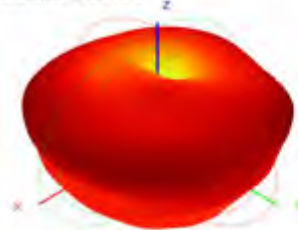
2480 MHz Total(E2-YZ), Max=1.04dB



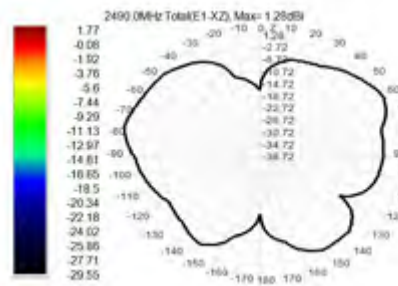
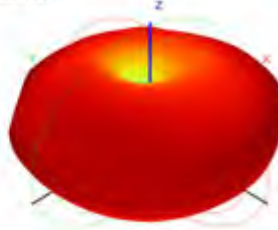
Total(H+V), Max=-2.31dB, CnD=5.12



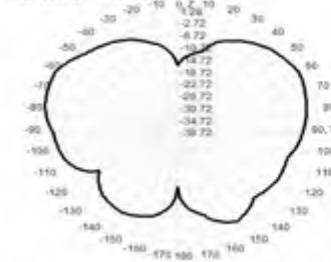
2490 MHz H+V, EE 48.7%



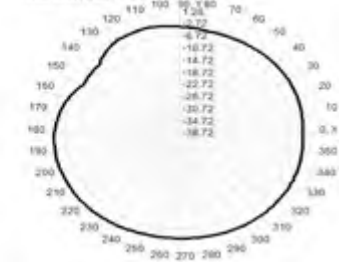
Back View



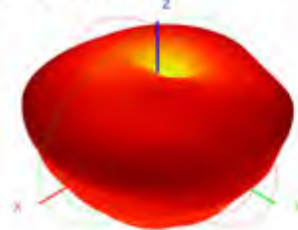
2490 MHz Total(E2-YZ), Max=1.01dB



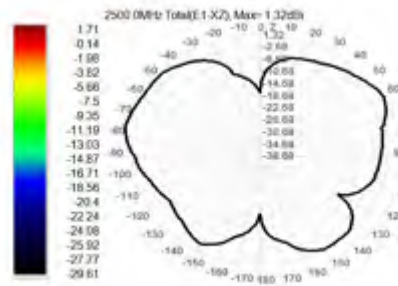
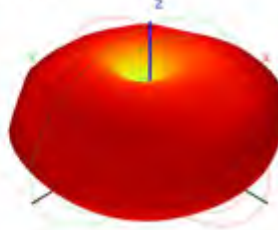
Total(H+V), Max=-2.66dB, CnD=4.64



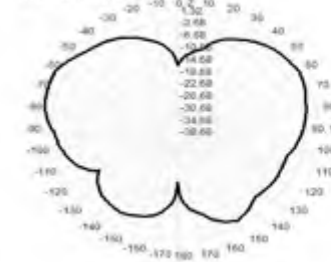
2500 MHz H+V, EE 48.6%



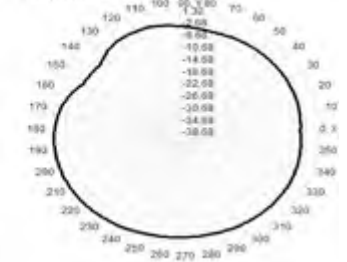
Back View



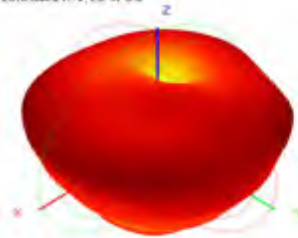
2500 MHz Total(E2-YZ), Max=0.94dB



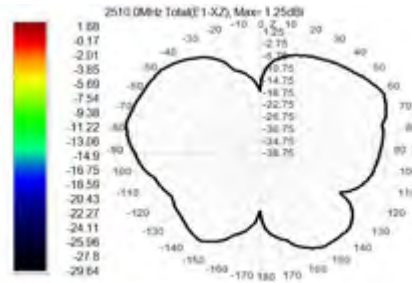
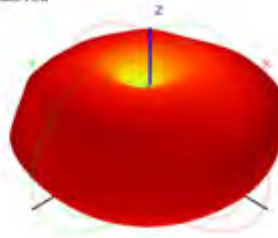
Total(H+V), Max=-3.00dB, CnD=4.45



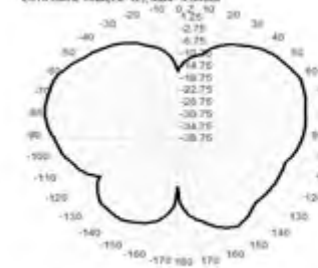
2510 MHz H+V, EE 47.6%



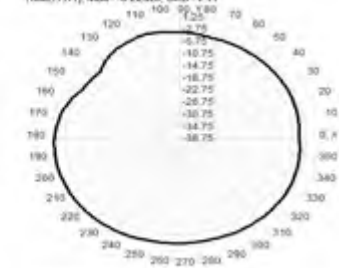
Back View



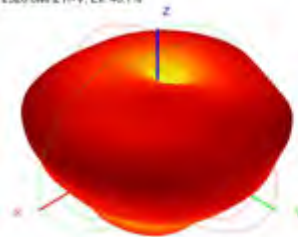
2510 MHz Total(E2-YZ), Max=0.65dB



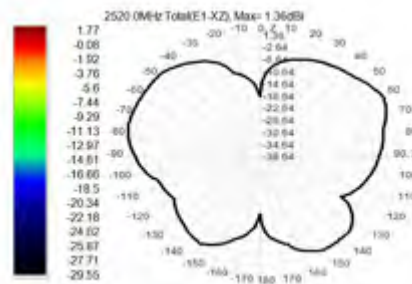
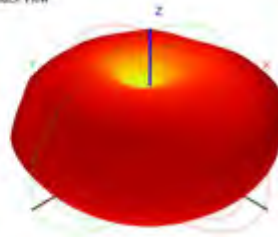
Total(H+V), Max=-3.22dB, CrD=4.41



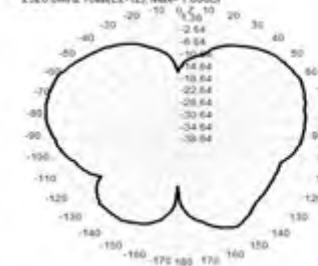
2520 MHz H+V, EE 48.1%



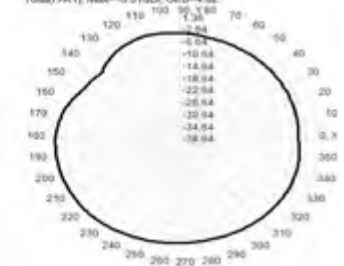
Back View



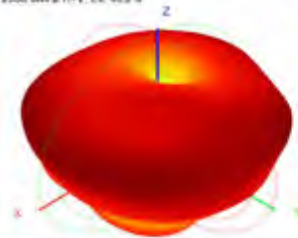
2520 MHz Total(E2-YZ), Max=1.00dB



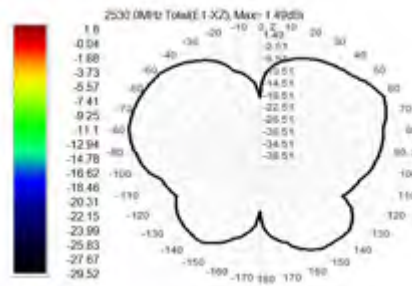
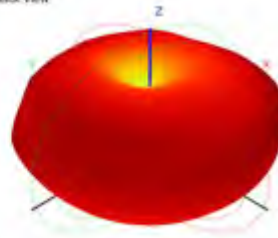
Total(H+V), Max=-3.31dB, CrD=4.62



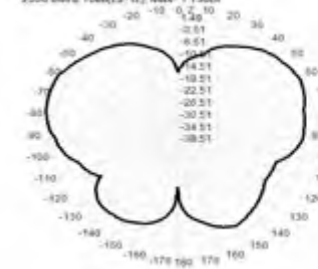
2530 MHz H+V, EE 48.2%



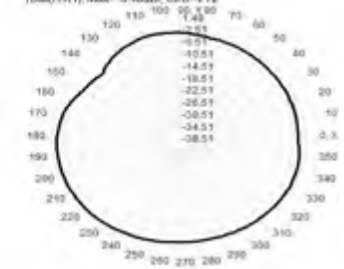
Back View



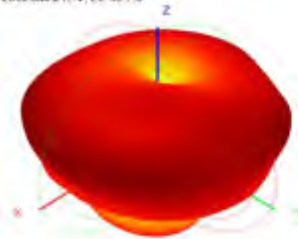
2530 MHz Total(E2-YZ), Max=1.13dB



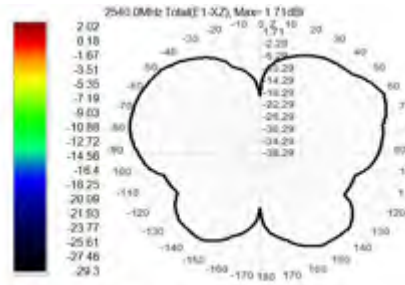
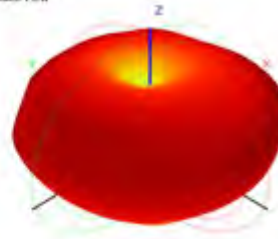
Total(H+V), Max=-3.46dB, CrD=4.72



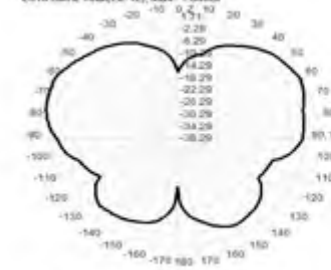
2540 MHz H+V, EE 49.7%



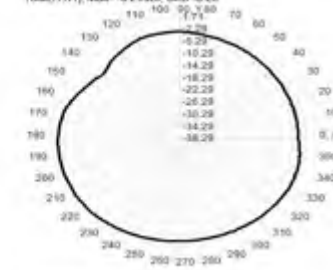
Back View



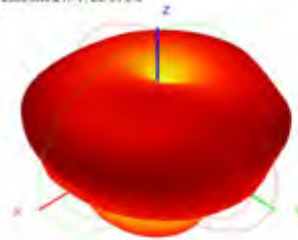
2540 MHz Total(E2-YZ), Max= 1.36dB



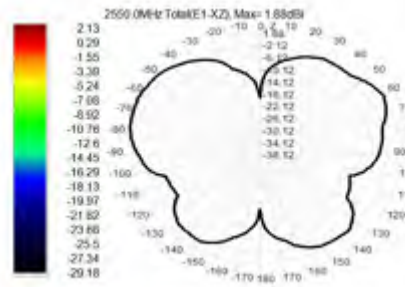
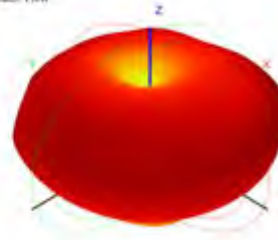
Total(H+XY), Max= -3.24dB, CrD=5.23



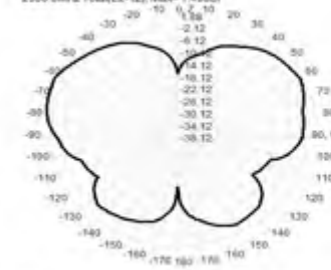
2550 MHz H+V, EE 51.0%



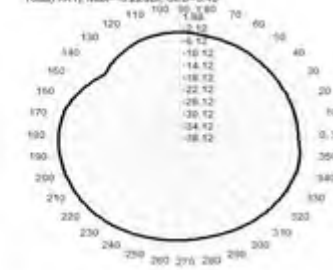
Back View



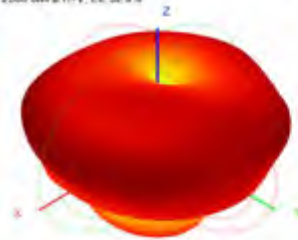
2550 MHz Total(E2-YZ), Max= 1.49dB



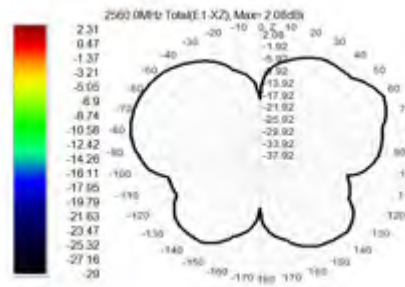
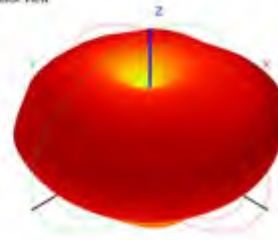
Total(H+XY), Max= -3.22dB, CrD=5.45



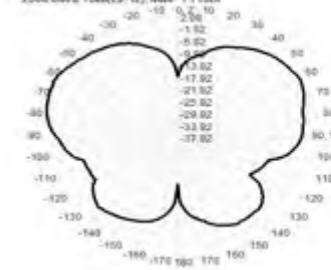
2560 MHz H+V, EE 52.9%



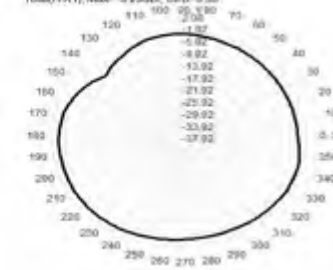
Back View



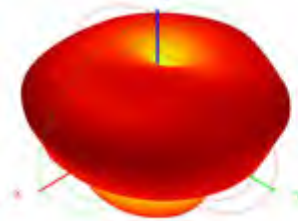
2560 MHz Total(E2-YZ), Max= 1.71dB



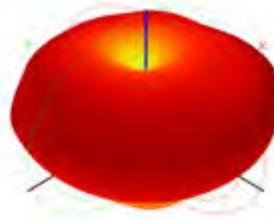
Total(H+XY), Max= -3.25dB, CrD=5.35



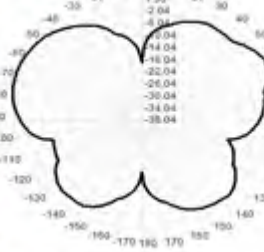
2570 MHz H+V, EF 51.3%



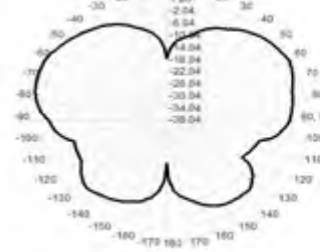
Back View



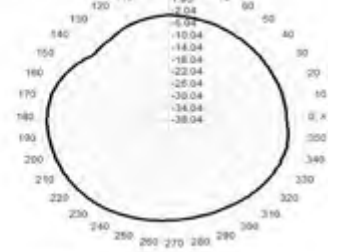
2570 MHz Total(E1-XZ), Max=1.96dB



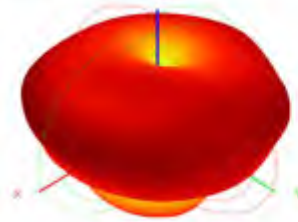
2570 MHz Total(E2-YZ), Max=1.57dB



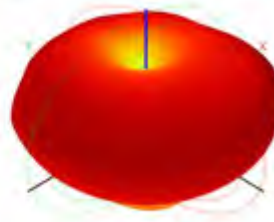
Total(H+V), Max=-3.47dB, CrD=4.66



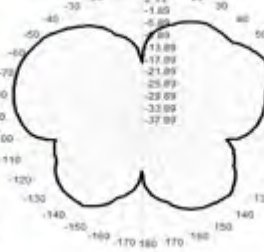
2580 MHz H+V, EF 52.0%



Back View



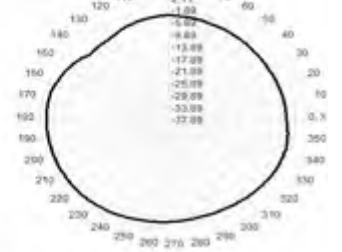
2580 MHz Total(E1-XZ), Max=2.11dB



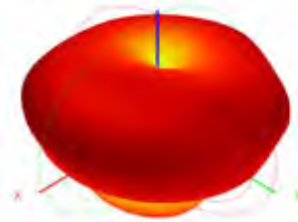
2580 MHz Total(E2-YZ), Max=1.61dB



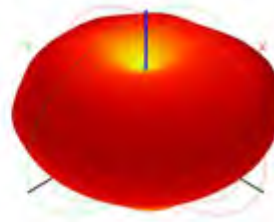
Total(H+V), Max=-3.30dB, CrD=3.75



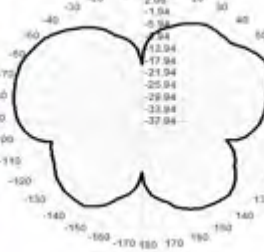
2590 MHz H+V, EF 52.0%



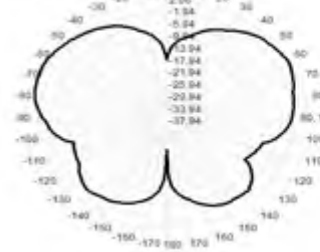
Back View



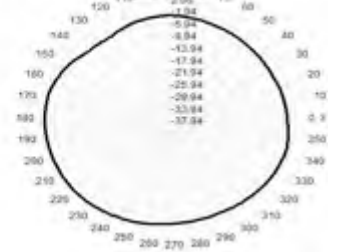
2590 MHz Total(E1-XZ), Max=2.06dB



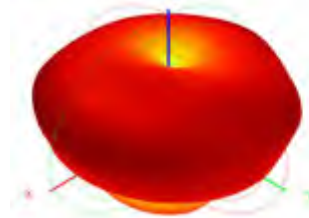
2590 MHz Total(E2-YZ), Max=1.50dB



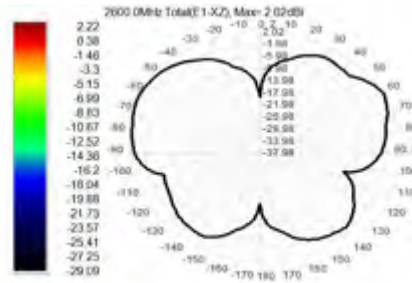
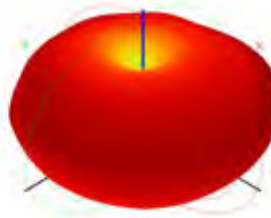
Total(H+V), Max=-3.04dB, CrD=2.94



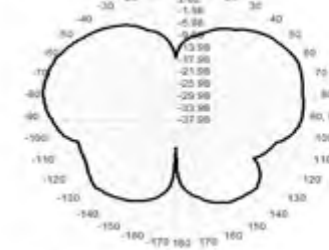
2600 MHz H+V, EF 52.4%



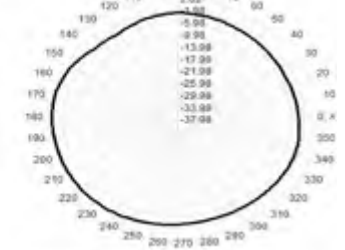
Back View



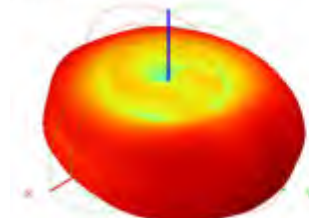
2600 MHz Total(E2-YZ), Max=-1.36dB



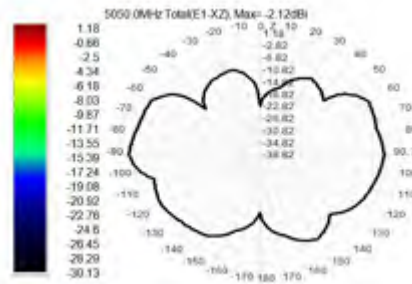
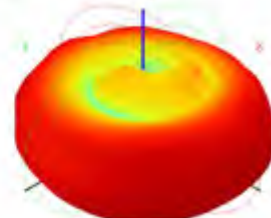
Total(H+V), Max=-2.59dB, CirD=2.57



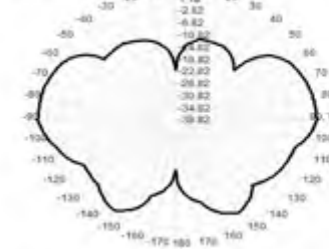
5000 MHz H+V, EF 36.0%



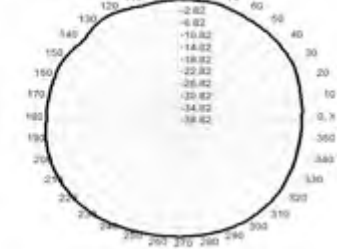
Back View



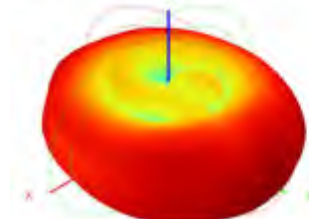
5000 MHz Total(E2-YZ), Max=-0.83dB



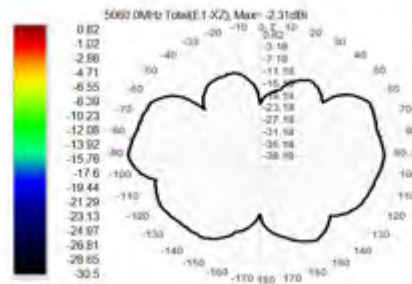
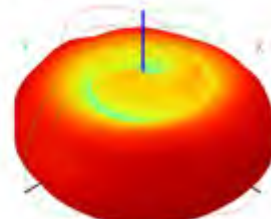
Total(H+V), Max=-1.18dB, CirD=5.13



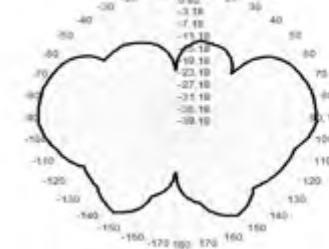
5000 MHz H+V, EF 34.6%



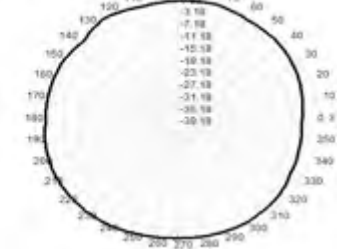
Back View



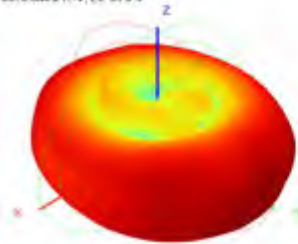
5000 MHz Total(E2-YZ), Max=-0.39dB



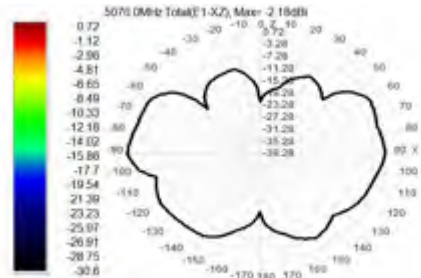
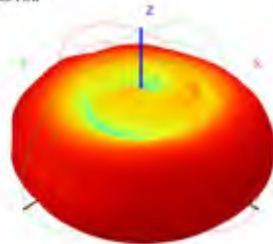
Total(H+V), Max=-0.82dB, CirD=5.08



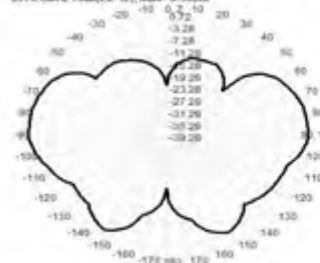
5070 MHz H+V, EE 34.9%



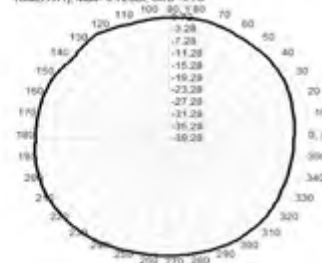
Back View



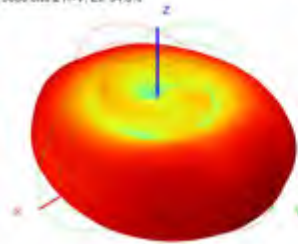
5070 MHz Total(E2-YZ), Max=-0.46dB



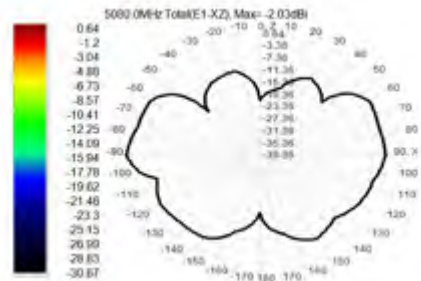
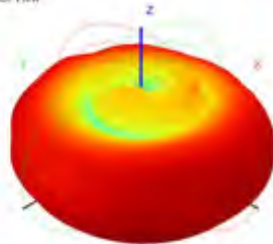
Total(H+V), Max=-0.72dB, CirD=4.78



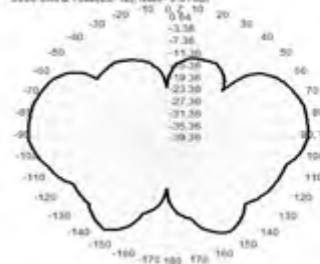
5090 MHz H+V, EE 34.8%



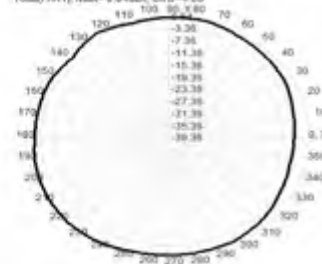
Back View



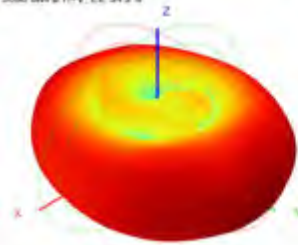
5090 MHz Total(E2-YZ), Max=-0.61dB



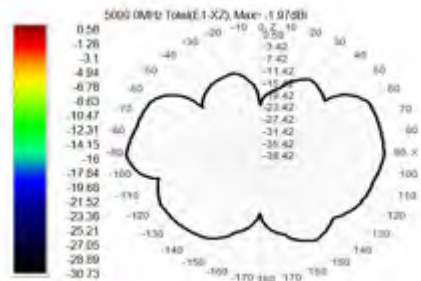
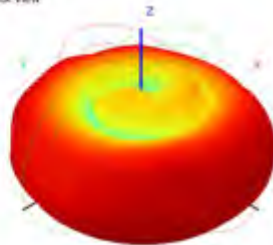
Total(H+V), Max=-0.64dB, CirD=4.83



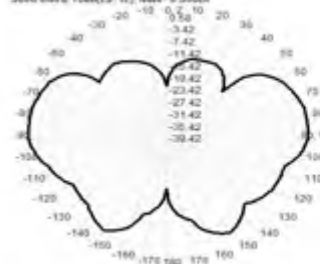
5090 MHz H+V, EE 34.2%



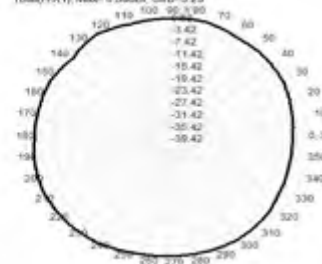
Back View



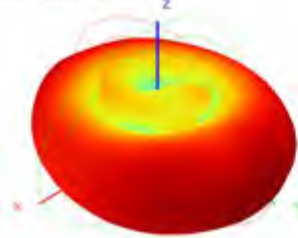
5090 MHz Total(E2-YZ), Max=-0.50dB



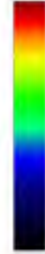
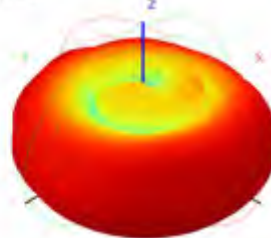
Total(H+V), Max=-0.58dB, CirD=5.23



5100 MHz H+V, EE 35.0%



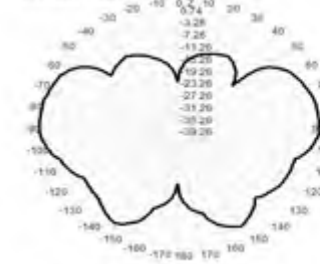
Back View



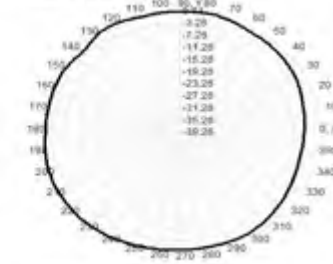
5100 MHz Total(E1-XZ), Max=-1.00dB



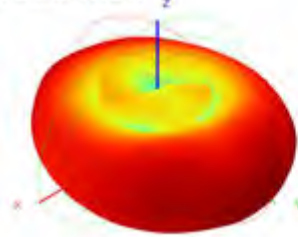
5100 MHz Total(E2-YZ), Max=0.59dB



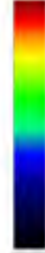
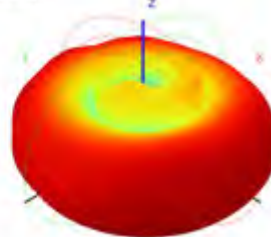
Total(H+V), Max=0.74dB, CirD=5.23



5110 MHz H+V, EE 35.0%



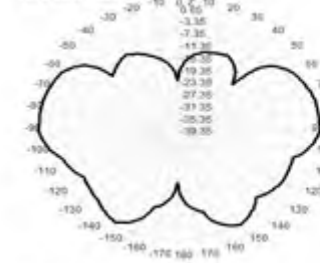
Back View



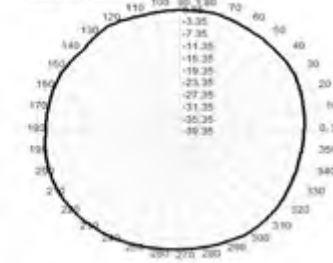
5110 MHz Total(E1-XZ), Max=-1.00dB



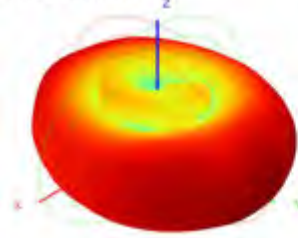
5110 MHz Total(E2-YZ), Max=0.59dB



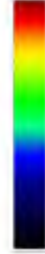
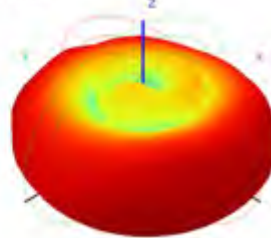
Total(H+V), Max=0.65dB, CirD=5.15



5120 MHz H+V, EE 36.7%



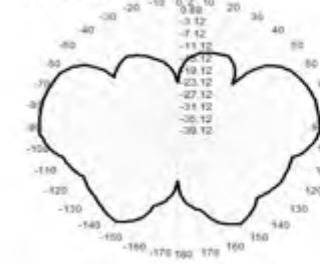
Back View



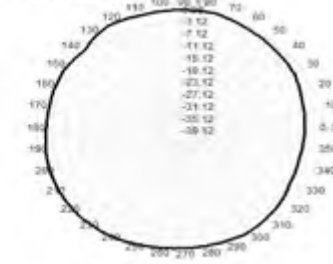
5120 MHz Total(E1-XZ), Max=-1.03dB



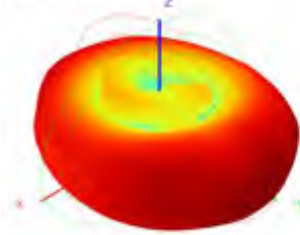
5120 MHz Total(E2-YZ), Max=0.79dB



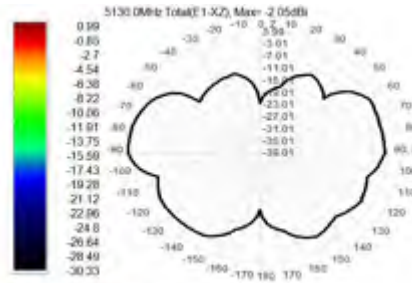
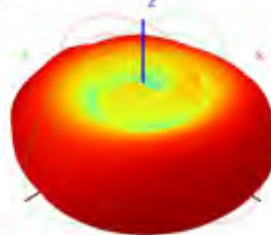
Total(H+V), Max=0.88dB, CirD=5.15



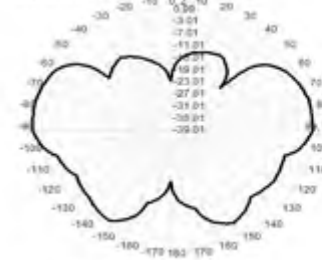
5130 MHz H+V, EE 37.1%



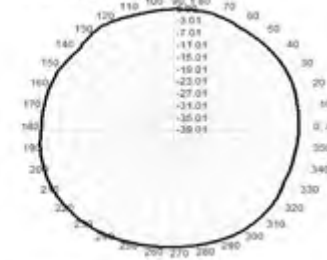
Back View



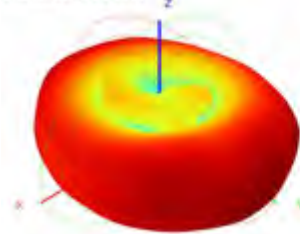
5130 MHz Total(E2-YZ), Max=0.99dB



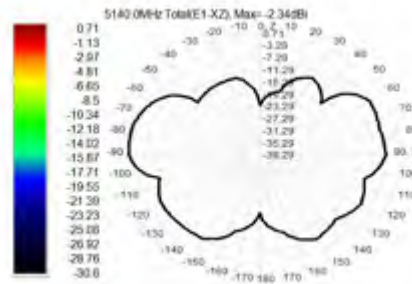
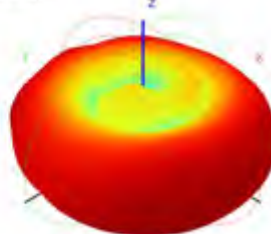
Total(H+V), Max=0.94dB, CirD=4.98



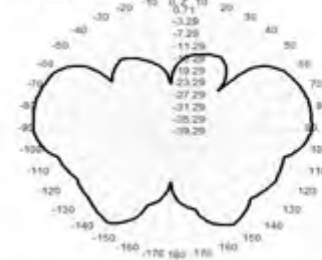
5140 MHz H+V, EE 34.1%



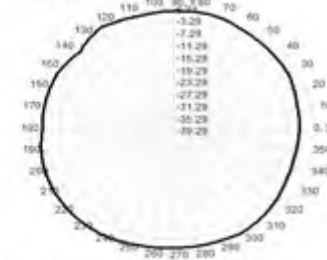
Back View



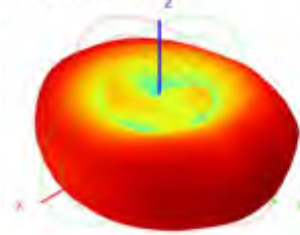
5140 MHz Total(E2-YZ), Max=0.71dB



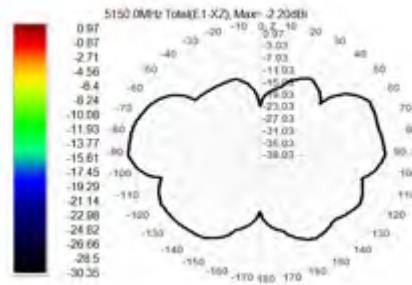
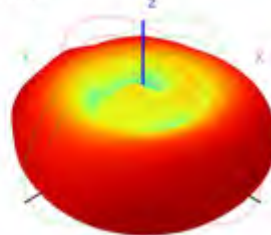
Total(H+V), Max=0.56dB, CirD=4.89



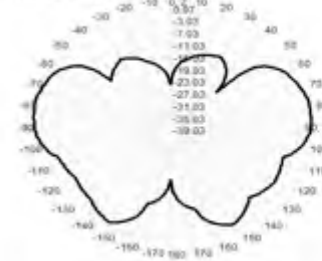
5150 MHz H+V, EE 35.1%



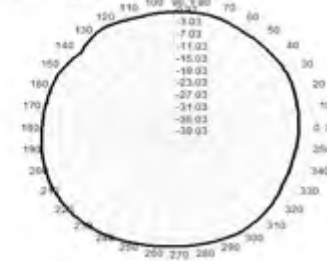
Back View



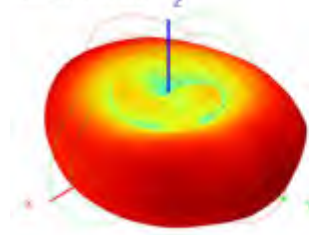
5150 MHz Total(E2-YZ), Max=0.97dB



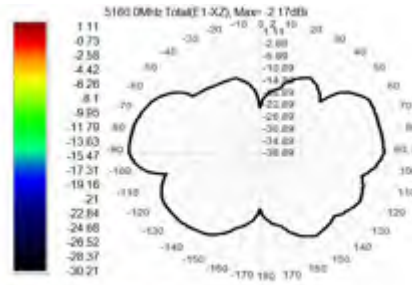
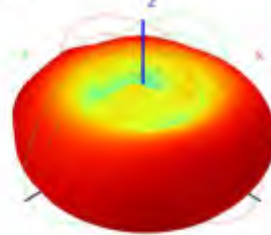
Total(H+V), Max=0.52dB, CirD=4.78



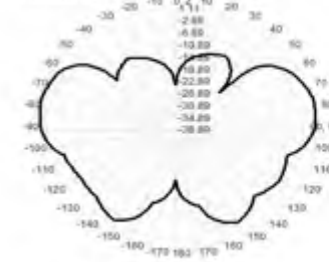
5160 MHz H+V, EE 34.4%



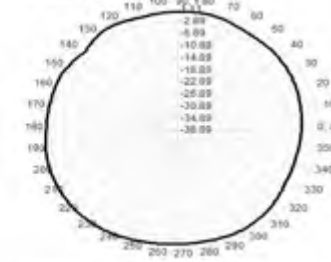
Back View



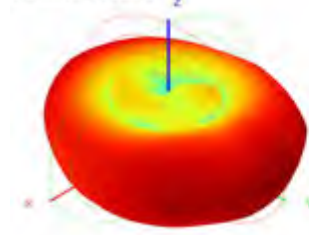
5160 MHz Total(E2-YZ), Max=1.11dB



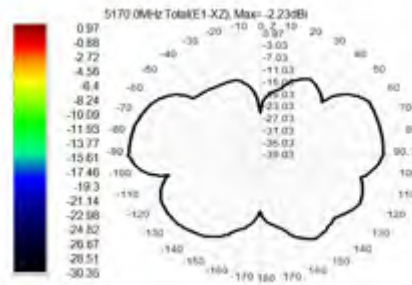
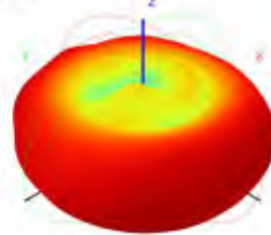
Total(H+V), Max=0.21dB, CirD=4.64



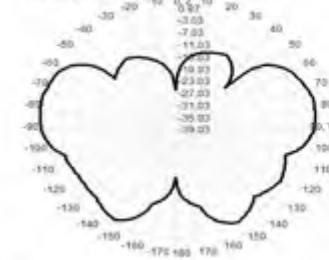
5170 MHz H+V, EE 33.7%



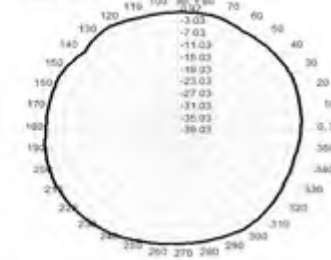
Back View



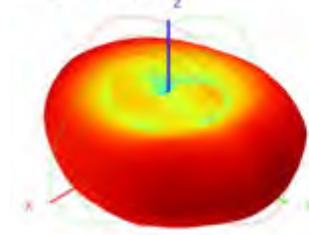
5170 MHz Total(E2-YZ), Max=0.97dB



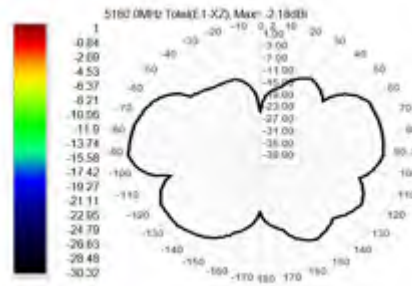
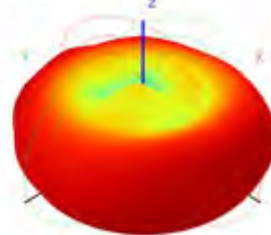
Total(H+V), Max=0.01dB, CirD=4.93



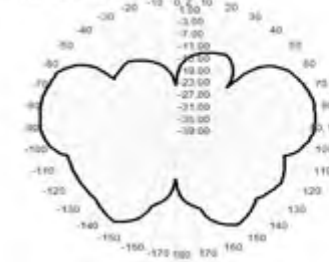
5180 MHz H+V, EE 34.5%



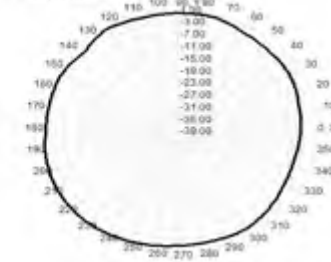
Back View



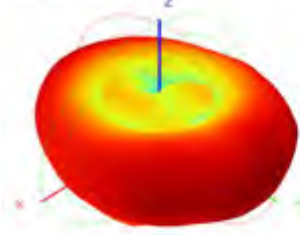
5180 MHz Total(E2-YZ), Max=1.00dB



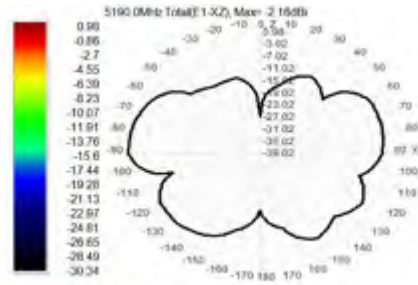
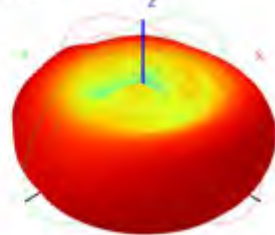
Total(H+V), Max=0.11dB, CirD=5.05



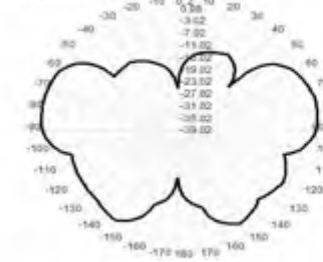
5190 MHz H+V, EF 34.9%



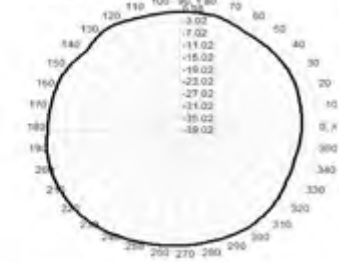
Back View



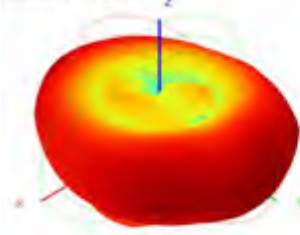
5190 MHz Total(E2-YZ), Max=0.99dB



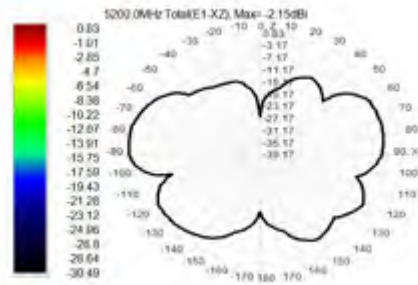
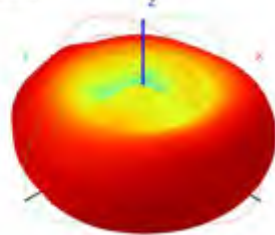
Total(H+V), Max=0.22dB, CirD=5.54



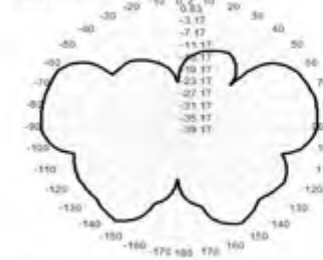
5200 MHz H+V, EF 35.1%



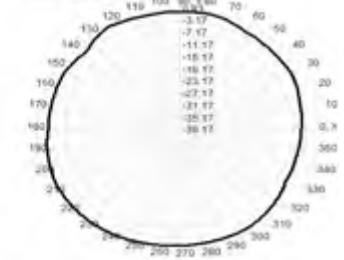
Back View



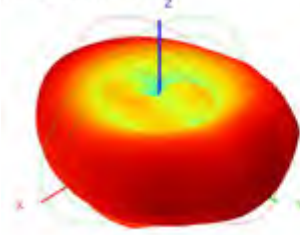
5200 MHz Total(E2-YZ), Max=0.83dB



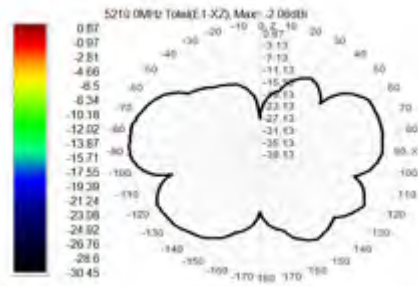
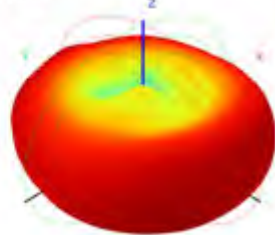
Total(H+V), Max=0.15dB, CirD=5.35



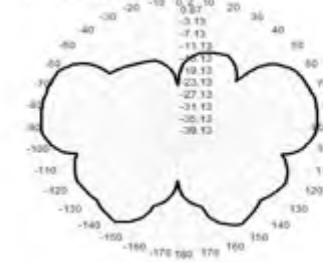
5210 MHz H+V, EF 35.2%



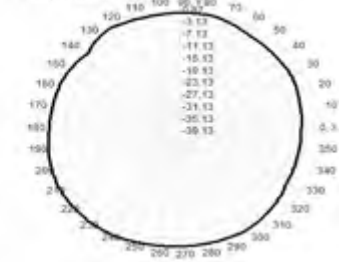
Back View



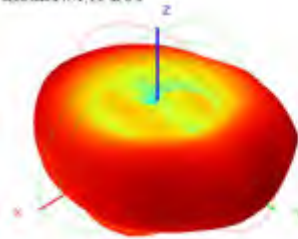
5210 MHz Total(E2-YZ), Max=0.87dB



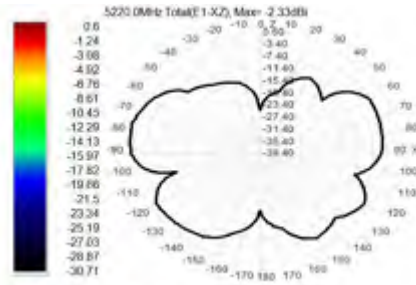
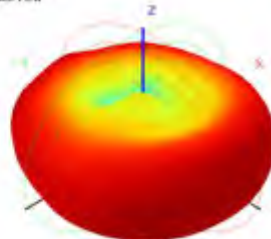
Total(H+V), Max=0.06dB, CirD=5.01



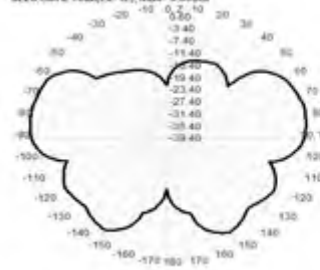
5220 MHz H+V, E.F. 32.8%



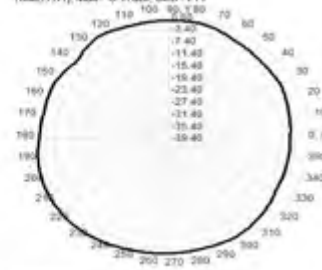
Back View



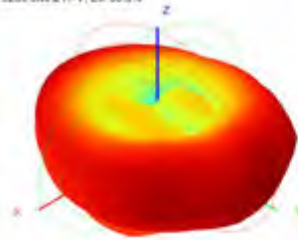
5220 MHz Total(E2-YZ), Max=-0.60dB



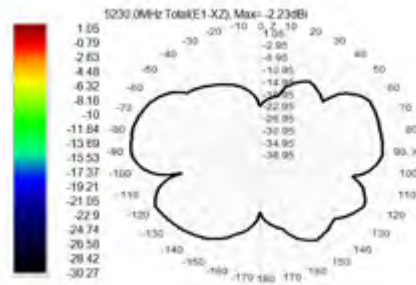
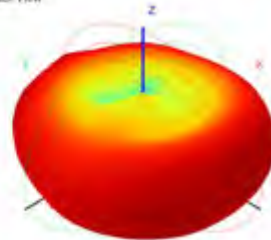
Total(H+XY), Max=-0.47dB, CrD=4.77



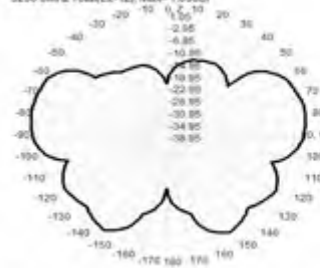
5230 MHz H+V, E.F. 35.3%



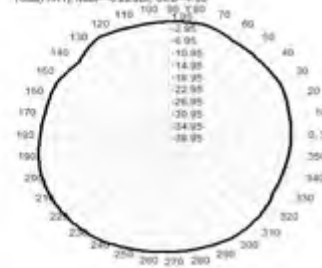
Back View



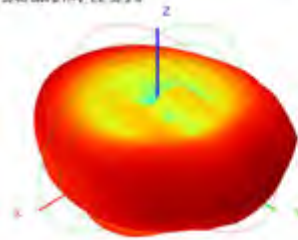
5230 MHz Total(E2-YZ), Max=-1.05dB



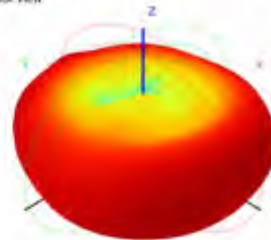
Total(H+XY), Max=-0.22dB, CrD=4.65



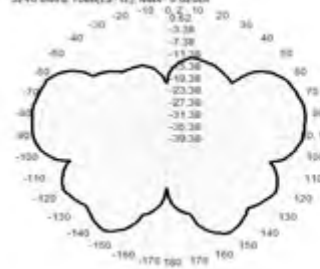
5240 MHz H+V, E.F. 32.2%



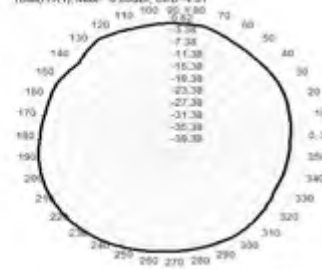
Back View



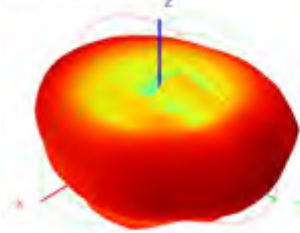
5240 MHz Total(E2-YZ), Max=-0.62dB



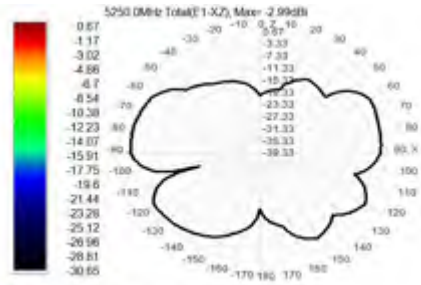
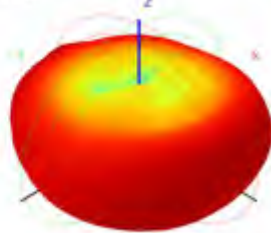
Total(H+XY), Max=-0.60dB, CrD=4.31



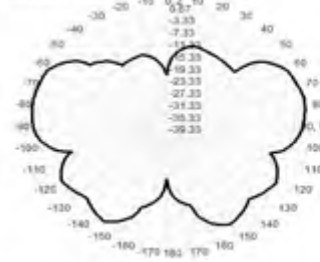
5250 MHz H+V, E.F. 32.8%



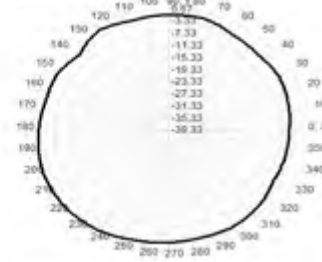
Back View



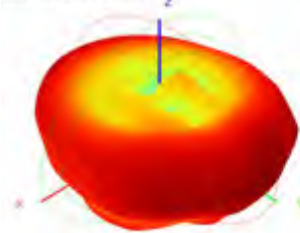
5250 MHz Total(E2-YZ), Max=0.67dB



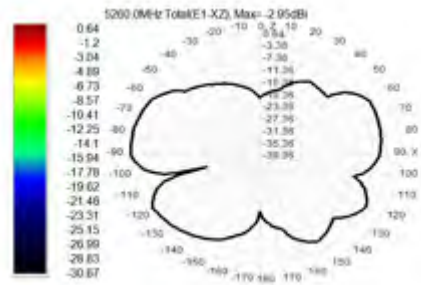
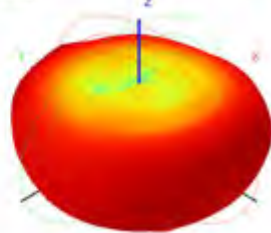
Total(H+V), Max=-0.77dB, CnD=4.66



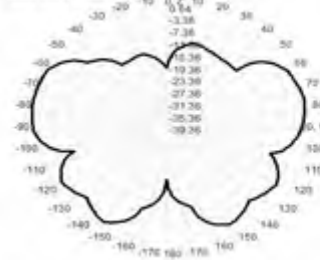
5260 MHz H+V, E.F. 32.8%



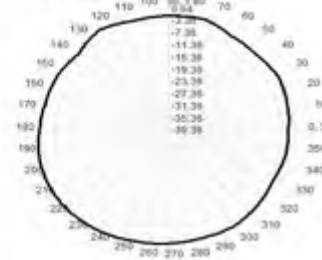
Back View



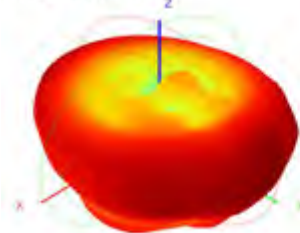
5260 MHz Total(E2-YZ), Max=0.64dB



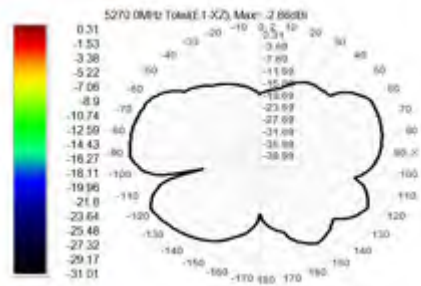
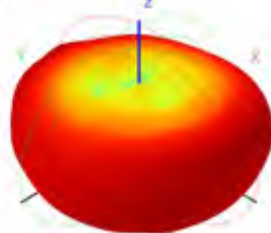
Total(H+V), Max=-0.67dB, CnD=4.69



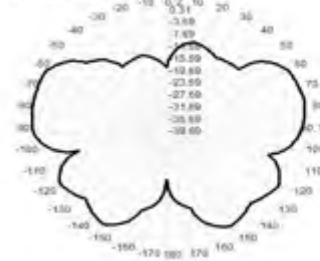
5270 MHz H+V, E.F. 32.5%



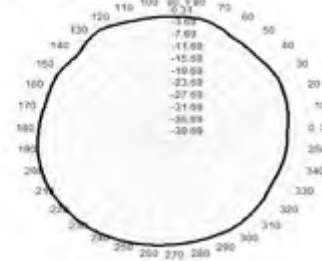
Back View



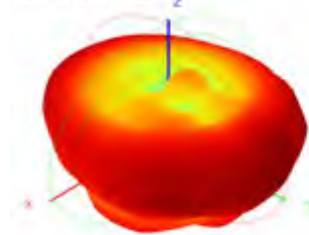
5270 MHz Total(E2-YZ), Max=0.31dB



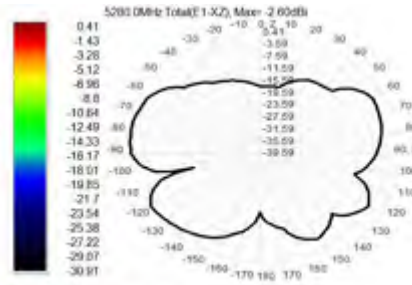
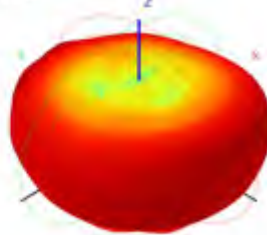
Total(H+V), Max=-0.97dB, CnD=5.37



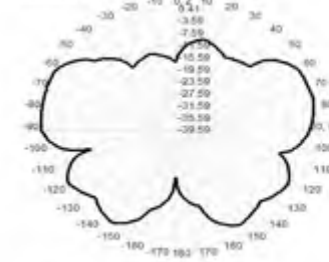
5280 MHz H+V, EIR 33.3%



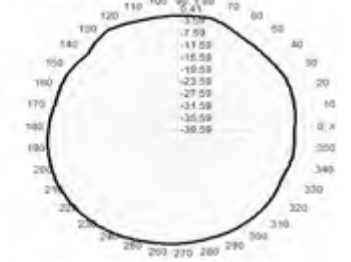
Back View



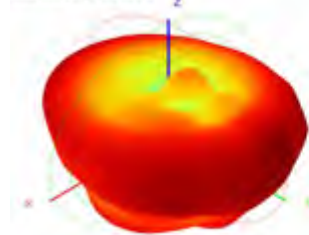
5280 MHz Total(E2-YZ), Max=0.41dB



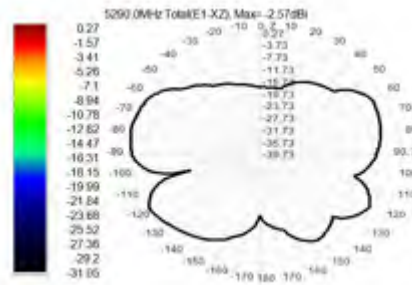
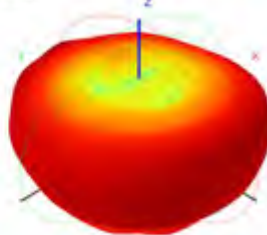
Total(H+XY), Max=-1.01dB, CnD=5.81



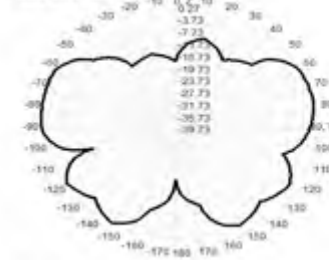
5290 MHz H+V, EIR 32.0%



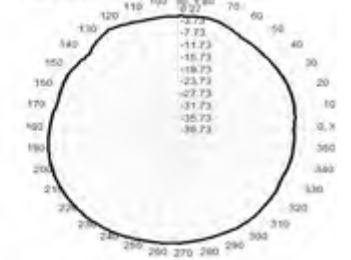
Back View



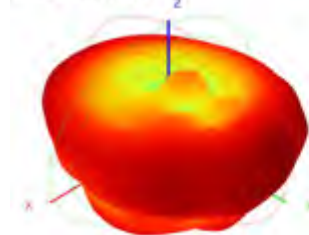
5290 MHz Total(E2-YZ), Max=0.27dB



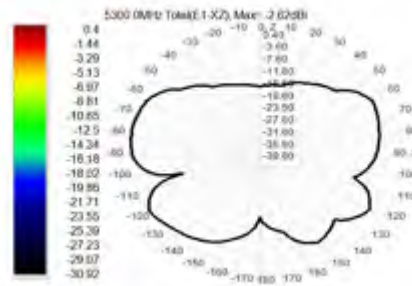
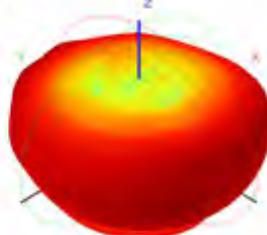
Total(H+XY), Max=-1.39dB, CnD=5.65



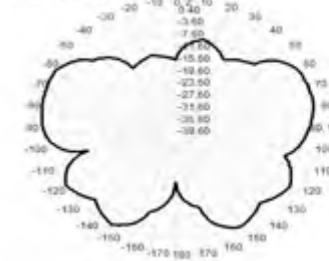
5300 MHz H+V, EIR 34.3%



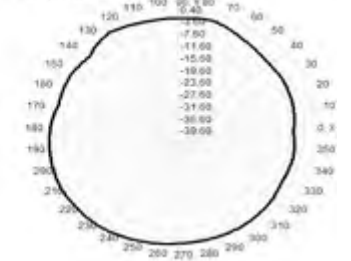
Back View



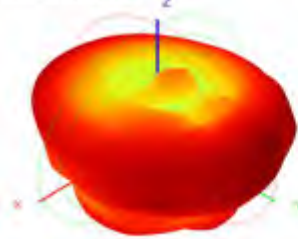
5300 MHz Total(E2-YZ), Max=0.40dB



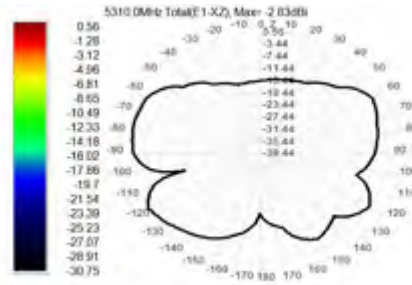
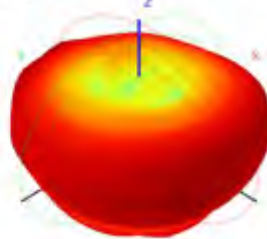
Total(H+XY), Max=-1.42dB, CnD=5.64



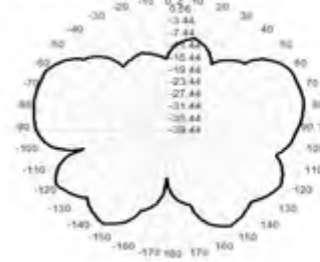
5310 MHz H+V, E/F 34.6%



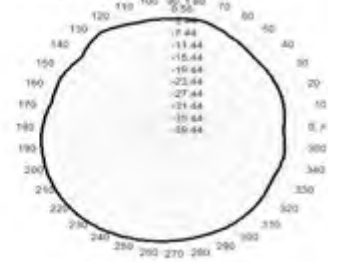
Back View



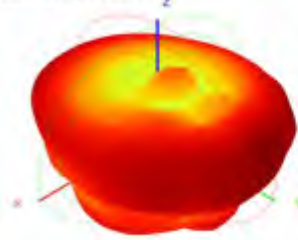
5310 MHz Total(E2-YZ), Max=-0.56dB



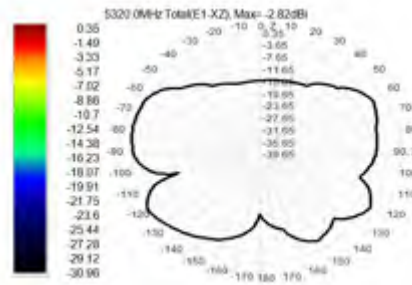
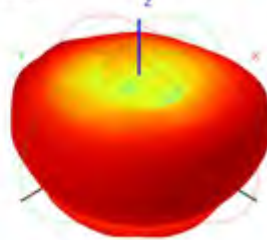
Total(H+V), Max=-1.61dB, Cx/D=5.37



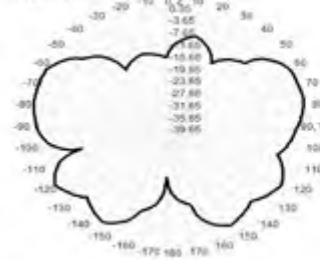
5320 MHz H+V, E/F 33.3%



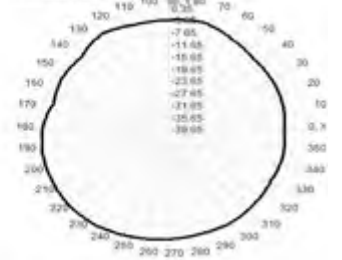
Back View



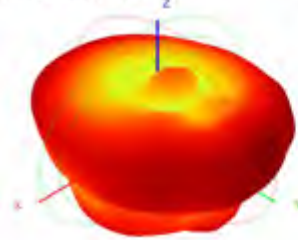
5320 MHz Total(E2-YZ), Max=-0.35dB



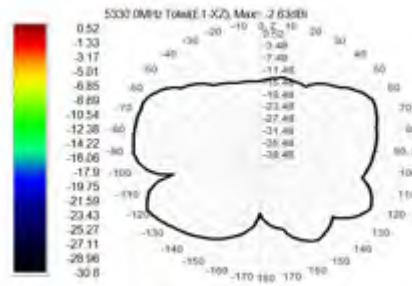
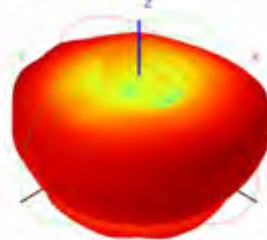
Total(H+V), Max=-2.25dB, Cx/D=4.91



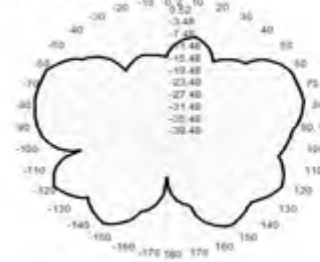
5330 MHz H+V, E/F 34.1%



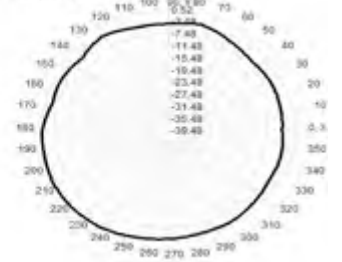
Back View



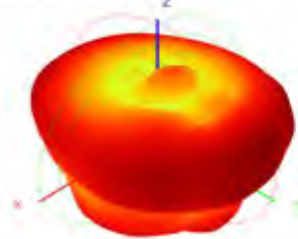
5330 MHz Total(E2-YZ), Max=-0.52dB



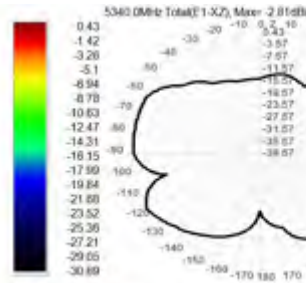
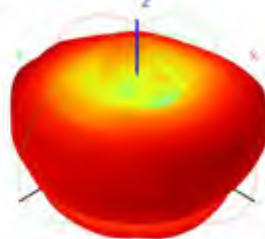
Total(H+V), Max=-2.35dB, Cx/D=5.21



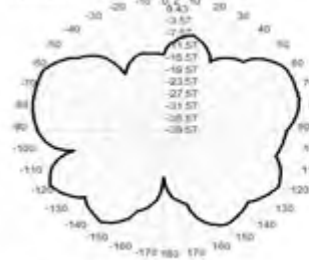
5340 MHz H+V, EF 35.2%



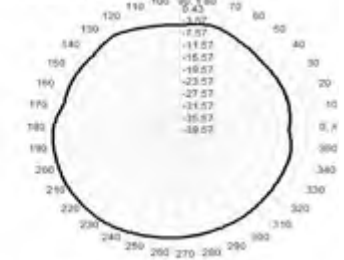
Back View



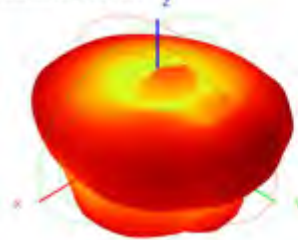
5340 MHz Total(E2-YZ), Max=0.43dB



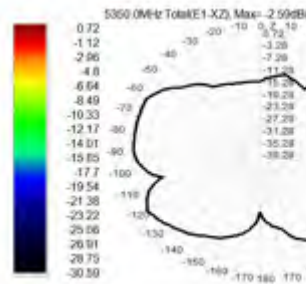
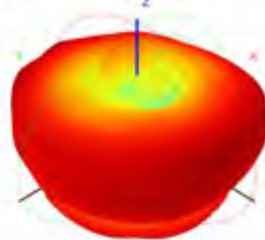
Total(H+V), Max=-2.81dB, CnD=5.96



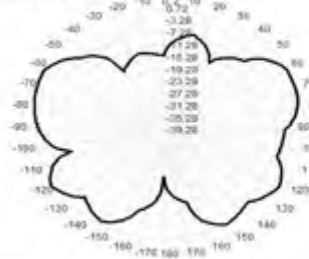
5360 MHz H+V, EF 34.3%



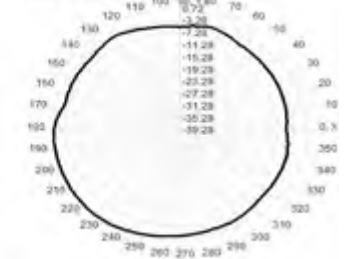
Back View



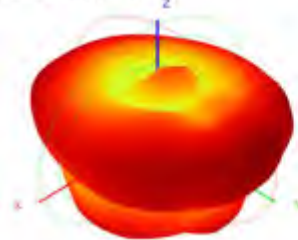
5360 MHz Total(E2-YZ), Max=0.72dB



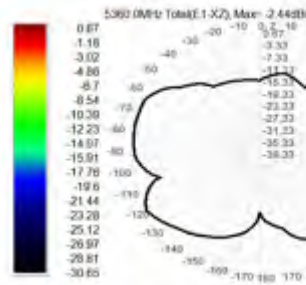
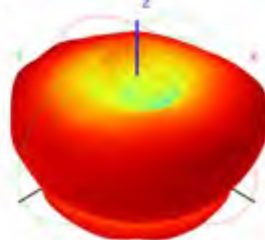
Total(H+V), Max=-2.59dB, CnD=6.42



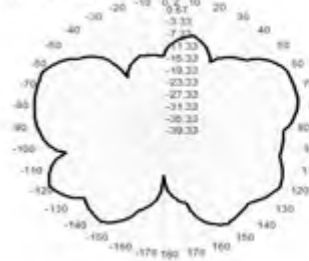
5380 MHz H+V, EF 35.0%



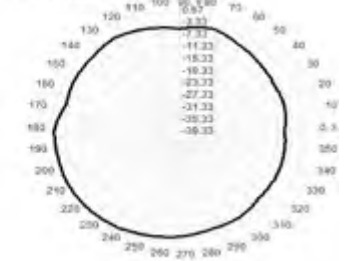
Back View



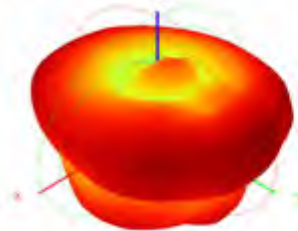
5380 MHz Total(E2-YZ), Max=0.87dB



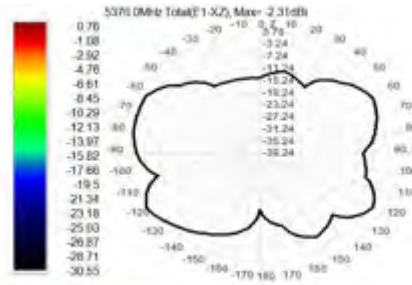
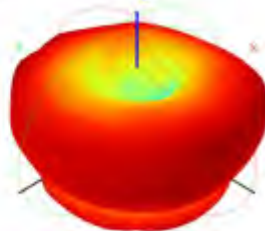
Total(H+V), Max=-2.44dB, CnD=6.78



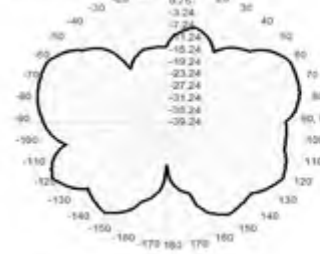
5370 MHz H+V, EE 35.3%



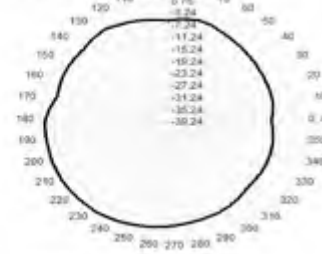
Back View



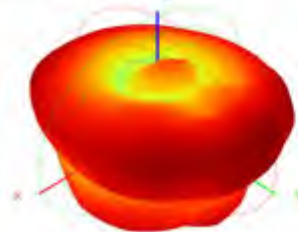
5370 MHz Total(E2-YZ), Max=0.76dB



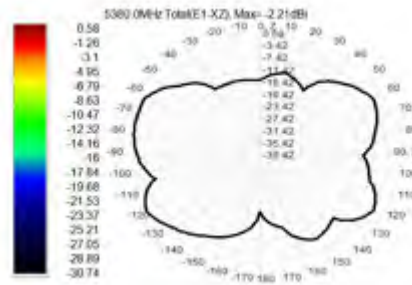
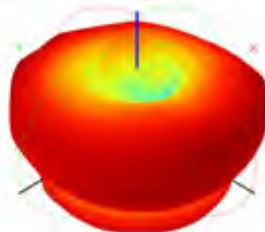
Total(H+XY), Max=-3.31dB, Cx/D=7.61



5380 MHz H+V, EE 35.4%



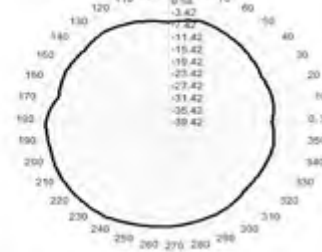
Back View



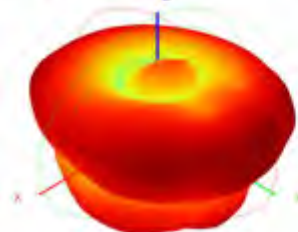
5380 MHz Total(E2-YZ), Max=0.58dB



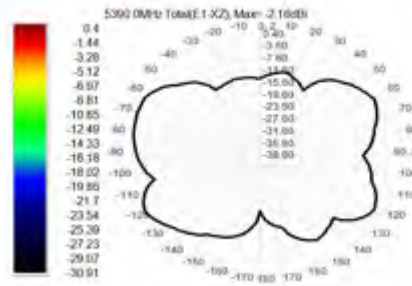
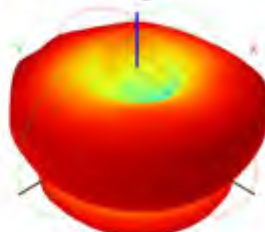
Total(H+XY), Max=-3.69dB, Cx/D=6.62



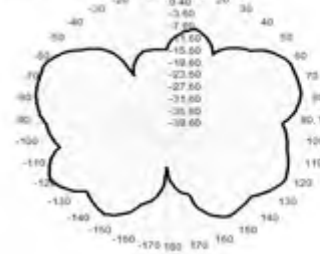
5390 MHz H+V, EE 35.2%



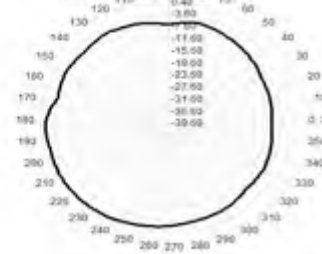
Back View



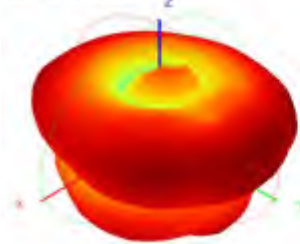
5390 MHz Total(E2-YZ), Max=0.40dB



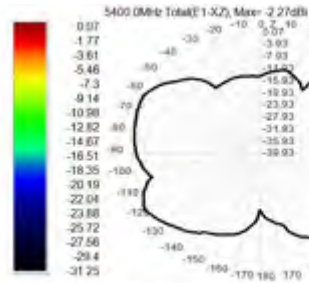
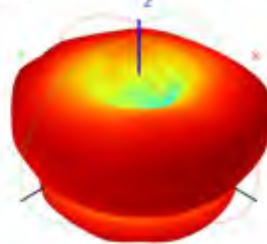
Total(H+XY), Max=-4.43dB, Cx/D=6.22



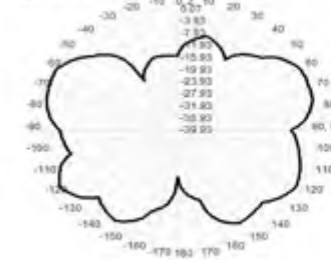
5400 MHz H+V, EE 33.5%



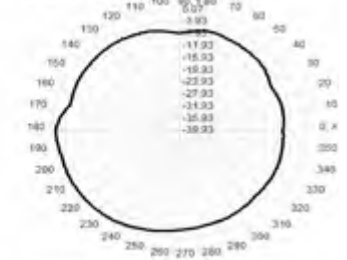
Back View



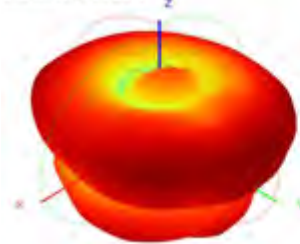
5400 MHz Total(E2-YZ), Max=0.07dB



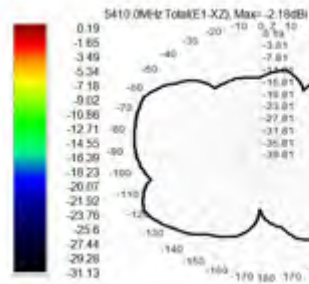
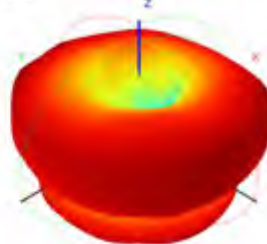
Total(H+V), Max=-4.65dB, CnD=5.99



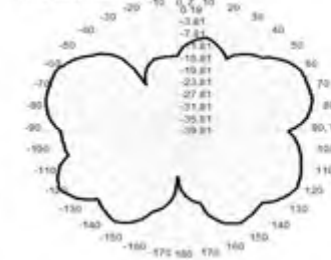
5410 MHz H+V, EE 33.2%



Back View



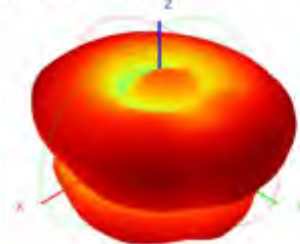
5410 MHz Total(E2-YZ), Max=0.19dB



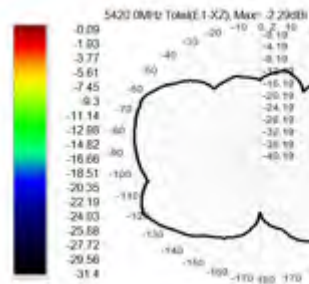
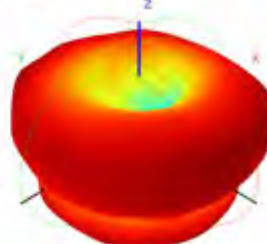
Total(H+V), Max=-4.84dB, CnD=6.14



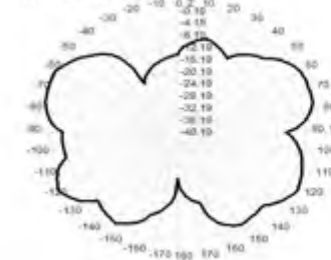
5420 MHz H+V, EE 33.7%



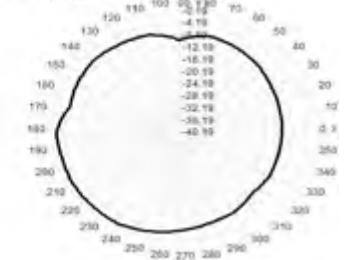
Back View



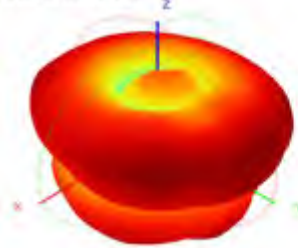
5420 MHz Total(E2-YZ), Max=0.19dB



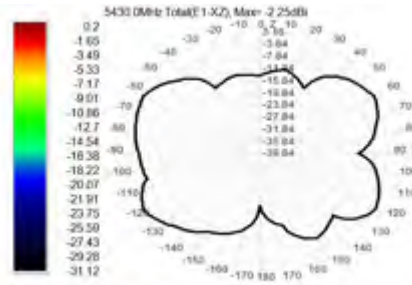
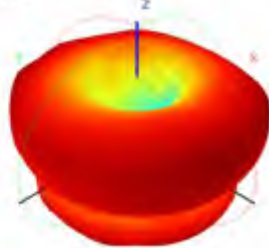
Total(H+V), Max=-5.57dB, CnD=5.99



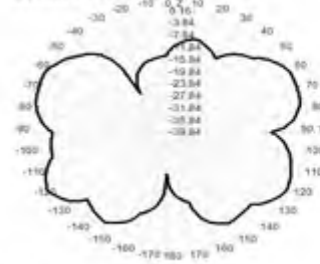
5430 MHz H+V, EF 34.9%



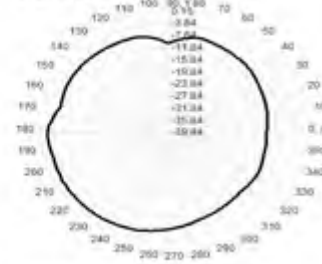
Back View



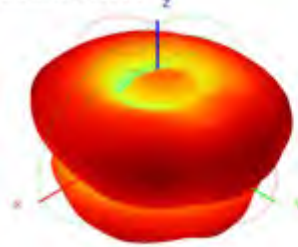
5430 MHz Total(E2-YZ), Max=0.16dB



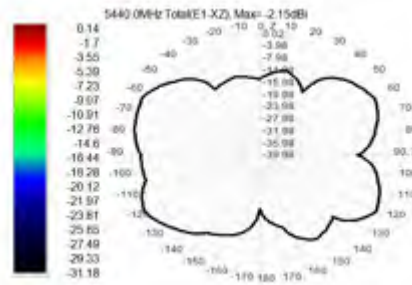
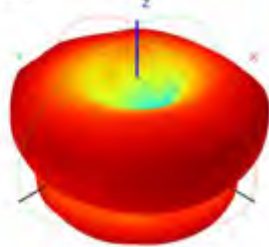
Total(H+V), Max=-5.86dB, CnD=6.42



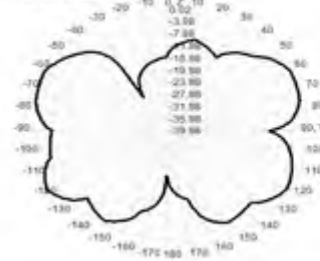
5440 MHz H+V, EF 34.2%



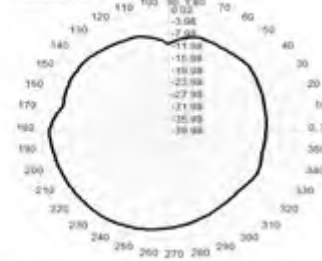
Back View



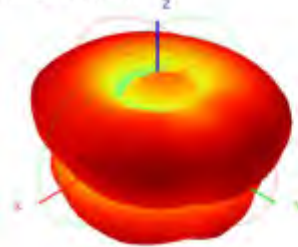
5440 MHz Total(E2-YZ), Max=0.02dB



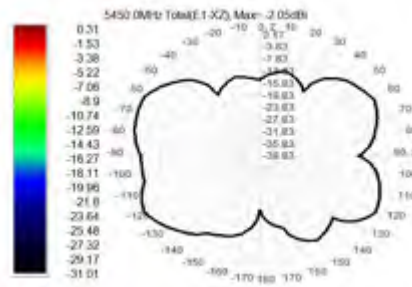
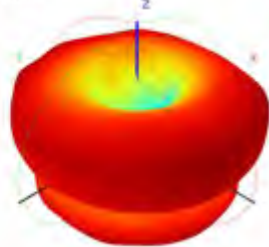
Total(H+V), Max=-6.20dB, CnD=6.58



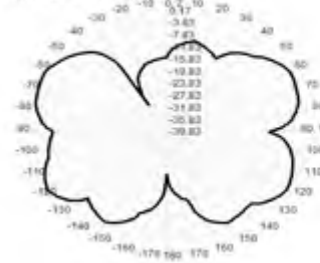
5450 MHz H+V, EF 35.4%



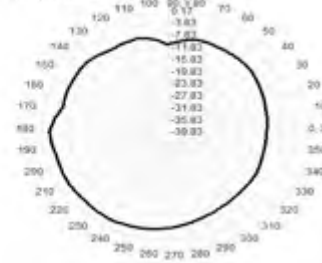
Back View

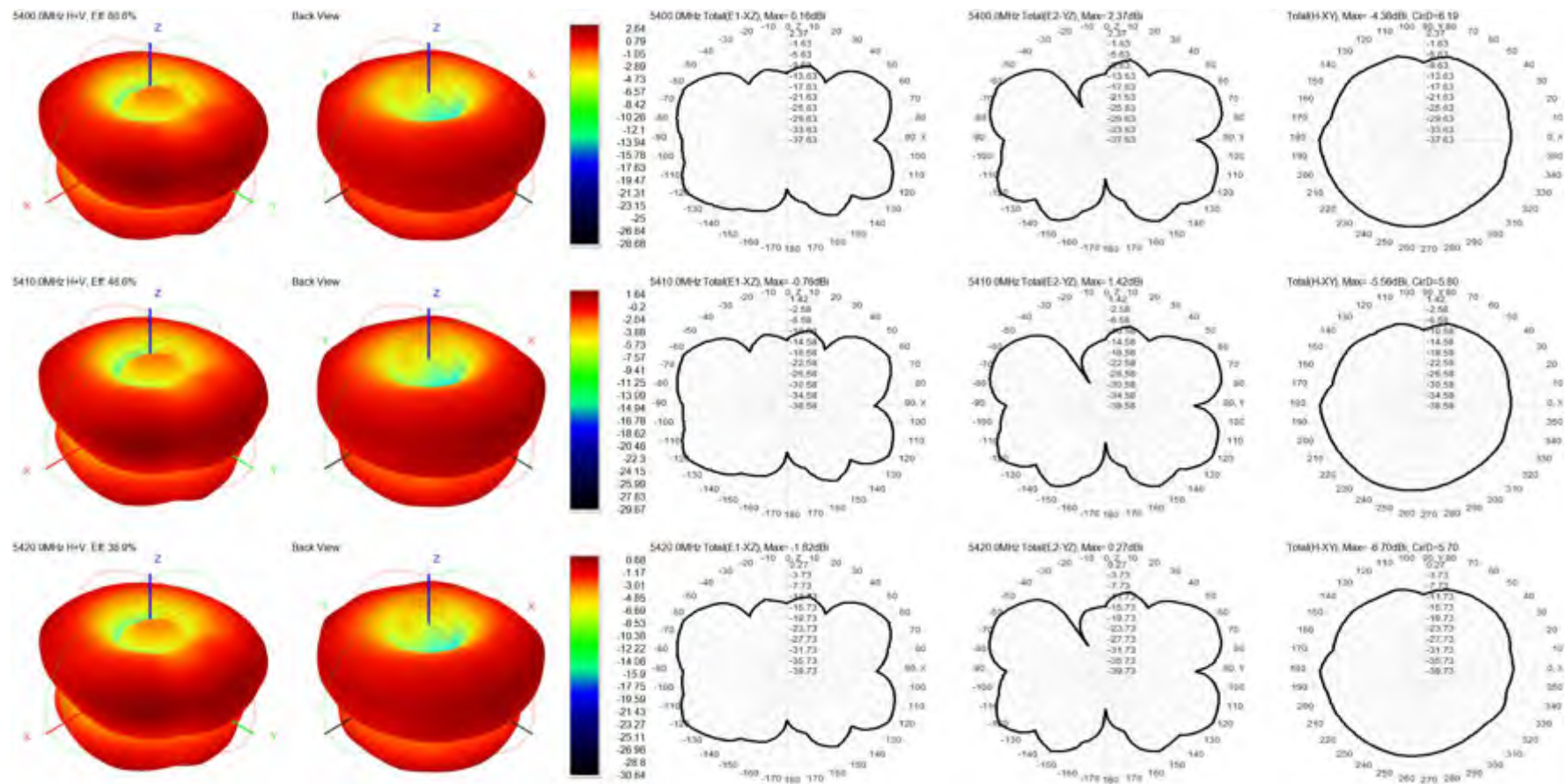


5450 MHz Total(E2-YZ), Max=0.17dB

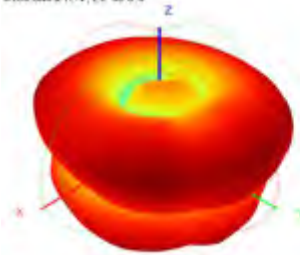


Total(H+V), Max=-6.56dB, CnD=6.79

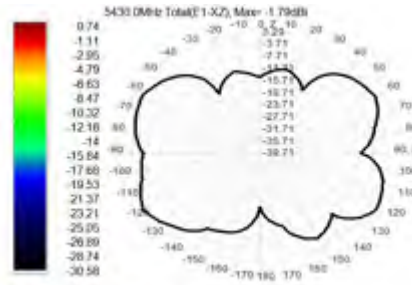
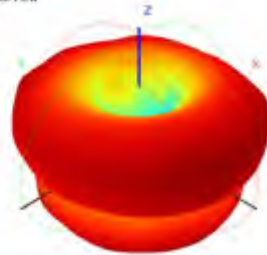




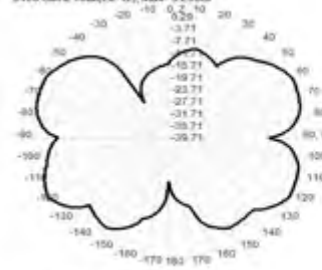
5430 MHz H+V, EF 39.3%



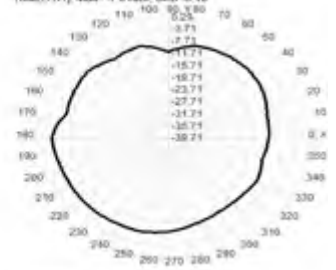
Back View



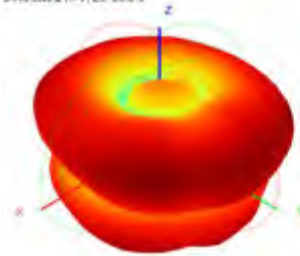
5430 MHz Total(E2-YZ), Max=-0.29dB



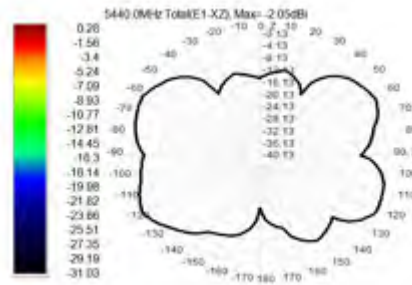
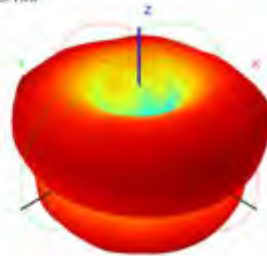
Total(H+XY), Max=-7.04dB, CrD=5.48



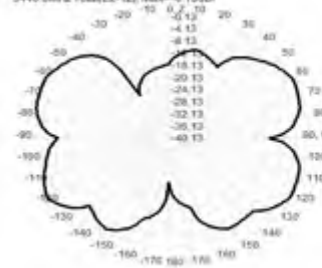
5440 MHz H+V, EF 36.3%



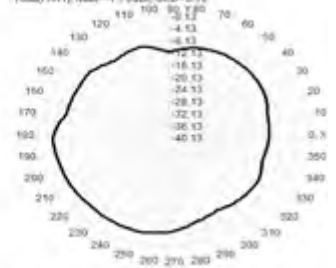
Back View



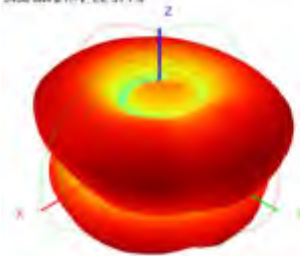
5440 MHz Total(E2-YZ), Max=-0.13dB



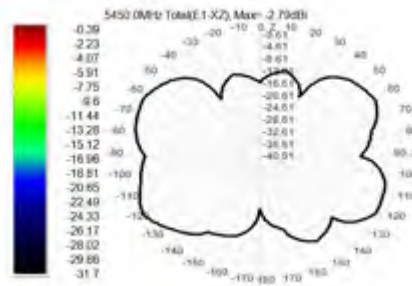
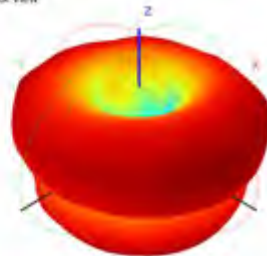
Total(H+XY), Max=-7.70dB, CrD=5.10



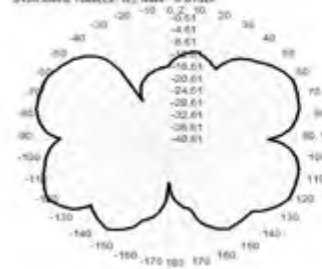
5450 MHz H+V, EF 31.7%



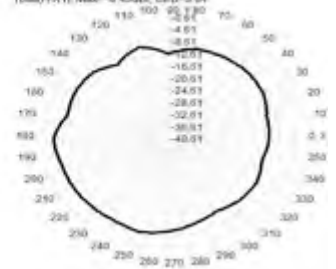
Back View



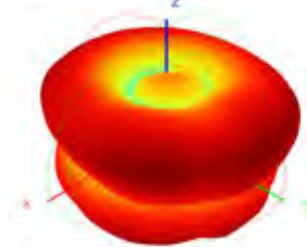
5450 MHz Total(E2-YZ), Max=-0.61dB



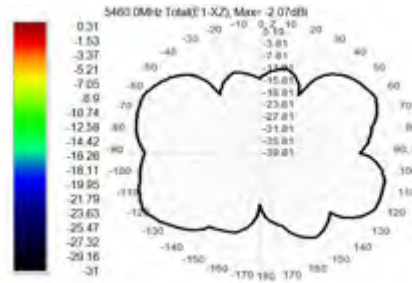
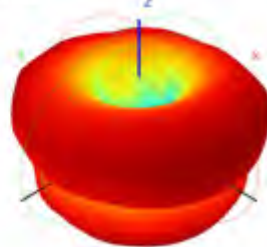
Total(H+XY), Max=-8.45dB, CrD=5.04



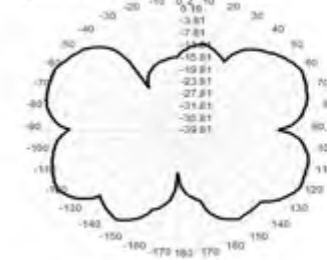
5460 MHz H+V, E.F. 37.6%



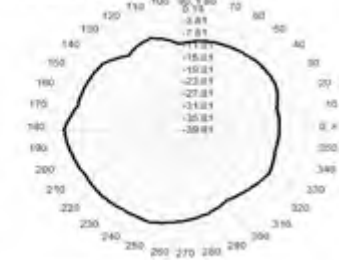
Back View



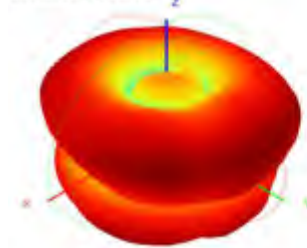
5460 MHz Total(E2-YZ), Max=0.19dB



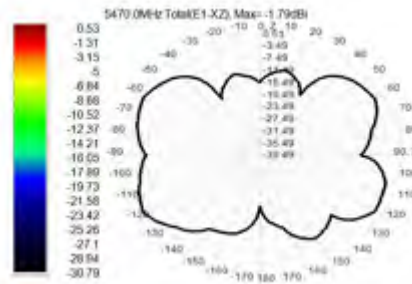
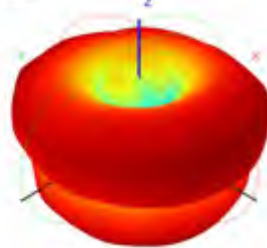
Total(H+V), Max=-7.60dB, CrD=5.39



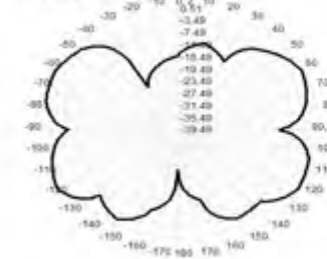
5470 MHz H+V, E.F. 39.9%



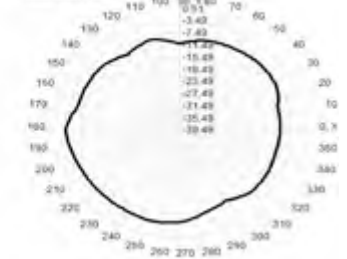
Back View



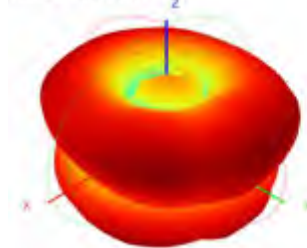
5470 MHz Total(E2-YZ), Max=0.51dB



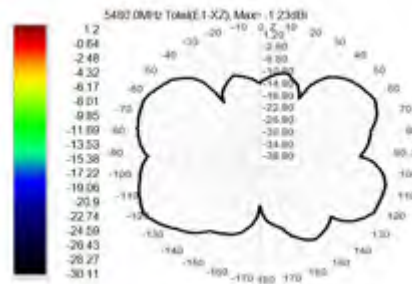
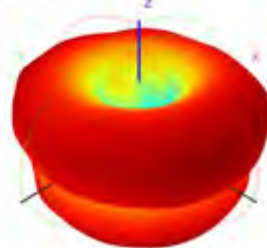
Total(H+V), Max=-7.63dB, CrD=5.09



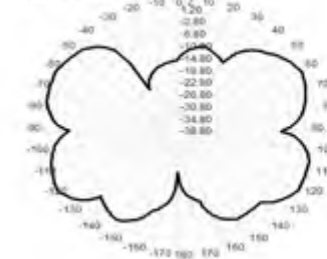
5480 MHz H+V, E.F. 45.1%



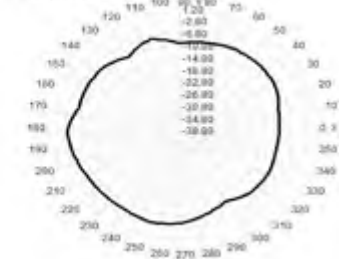
Back View



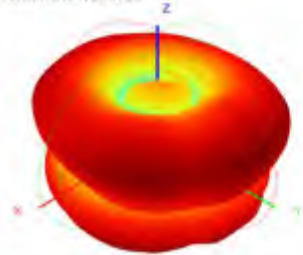
5480 MHz Total(E2-YZ), Max=1.20dB



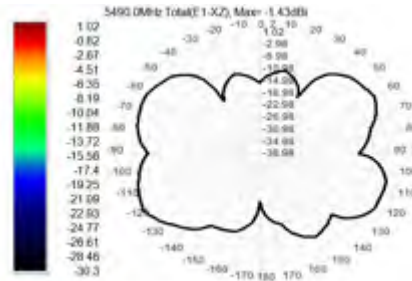
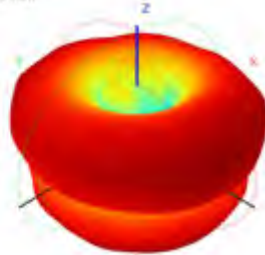
Total(H+V), Max=-7.37dB, CrD=4.96



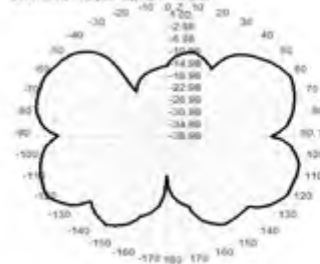
5490 MHz H+V, EF 44.2%



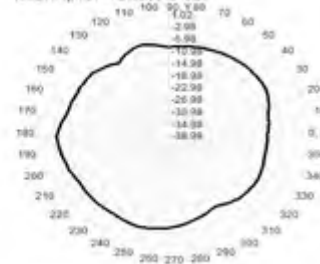
Back View



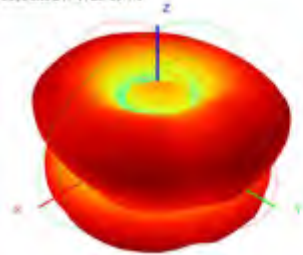
5490 MHz Total(E2-YZ), Max=-1.02dB



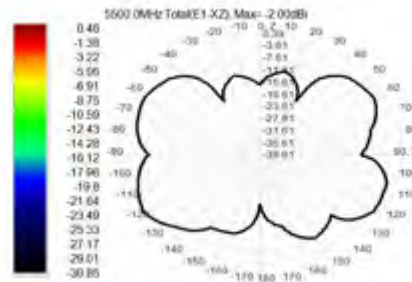
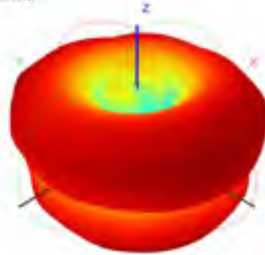
Total(H+XY), Max=-7.21dB, CrD=5.23



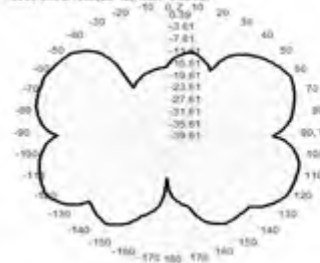
5500 MHz H+V, EF 39.4%



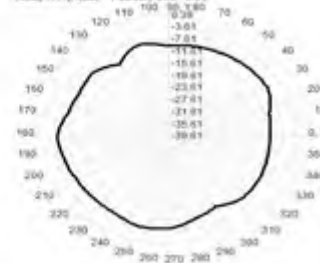
Back View



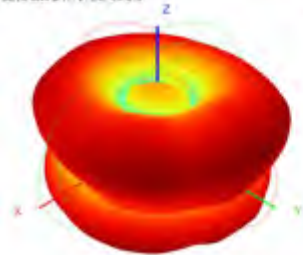
5500 MHz Total(E2-YZ), Max=-0.39dB



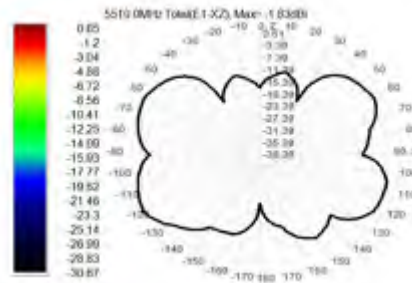
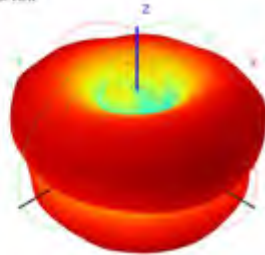
Total(H+XY), Max=-7.52dB, CrD=5.30



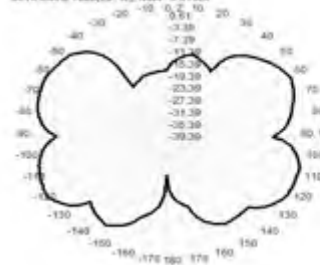
5510 MHz H+V, EF 40.6%



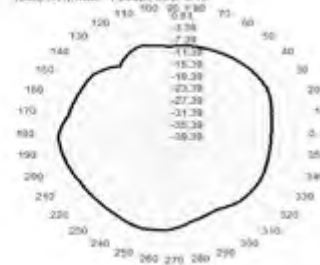
Back View



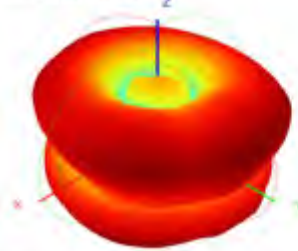
5510 MHz Total(E2-YZ), Max=-0.81dB



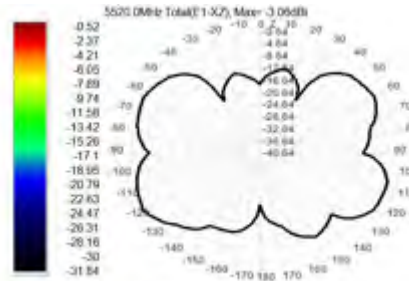
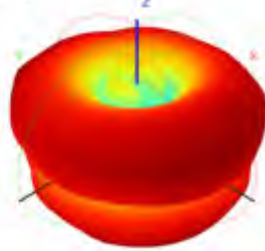
Total(H+XY), Max=-7.33dB, CrD=5.19



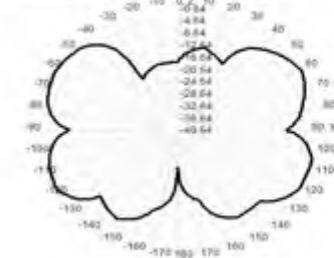
5520 MHz H+V, E/F 31.3%



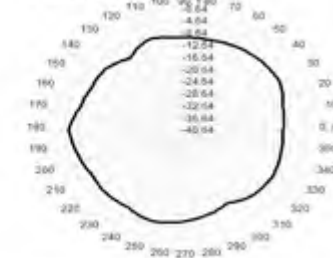
Back View



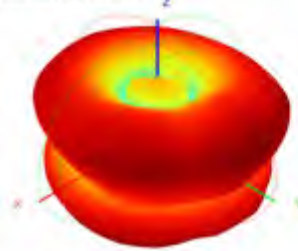
5520 MHz Total(E2-YZ), Max=-0.64dB



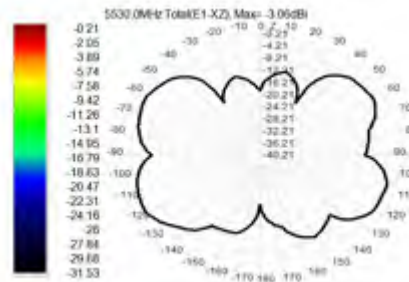
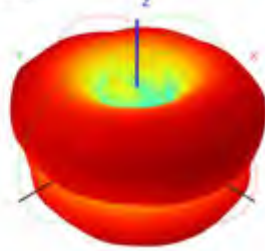
Total(H+V), Max=-8.26dB, CrD=5.54



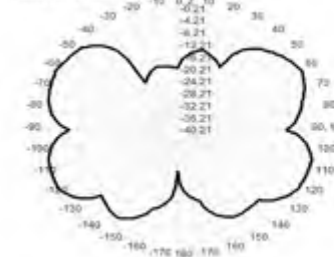
5530 MHz H+V, E/F 31.0%



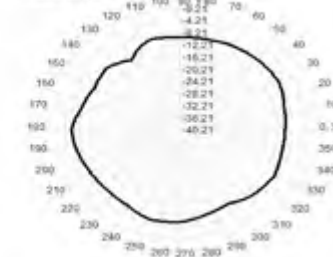
Back View



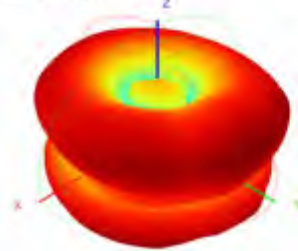
5530 MHz Total(E2-YZ), Max=-0.21dB



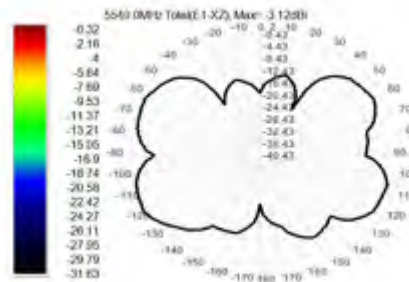
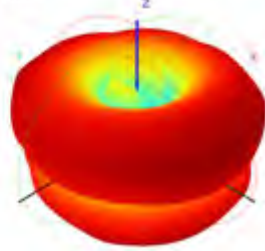
Total(H+V), Max=-8.06dB, CrD=5.56



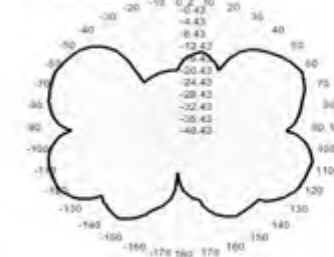
5540 MHz H+V, E/F 31.2%



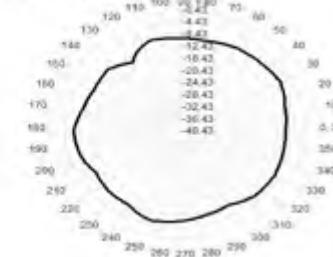
Back View



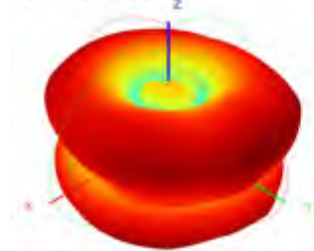
5540 MHz Total(E2-YZ), Max=-0.43dB



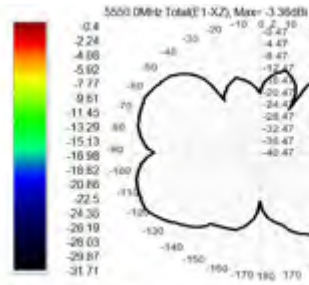
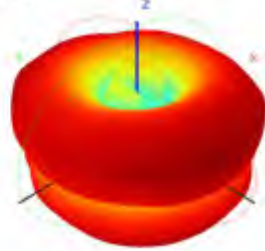
Total(H+V), Max=-7.83dB, CrD=6.66



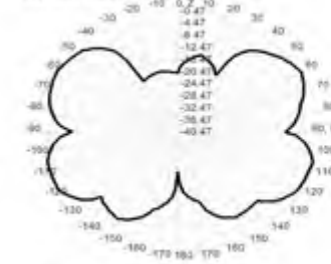
5560 MHz H+V, E/F 30.3%



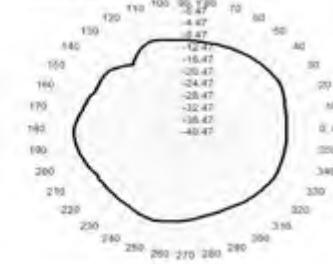
Back View



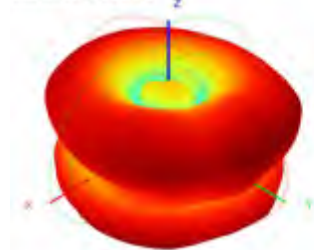
5560 MHz Total(E2-YZ), Max=-6.47dB



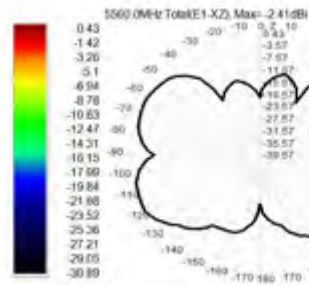
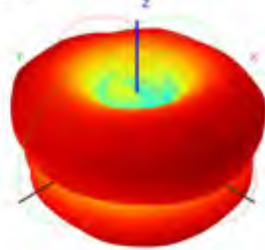
Total(H+XY), Max=-7.96dB, Cx/D=7.60



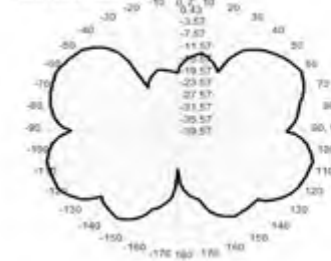
5560 MHz H+V, E/F 37.0%



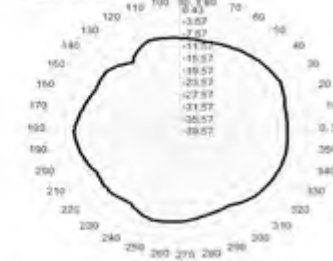
Back View



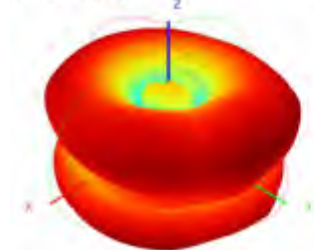
5560 MHz Total(E2-YZ), Max=-6.43dB



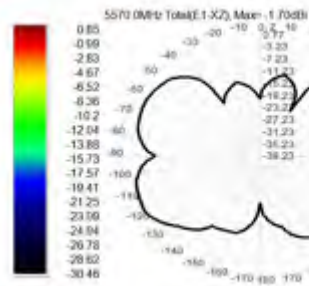
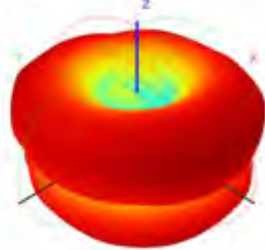
Total(H+XY), Max=-6.99dB, Cx/D=6.57



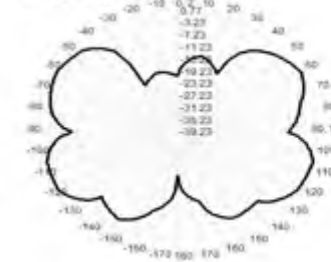
5570 MHz H+V, E/F 40.4%



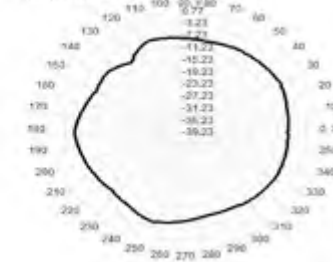
Back View



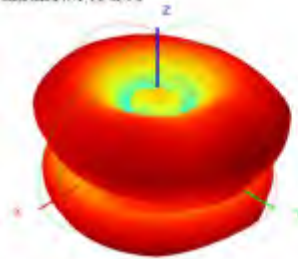
5570 MHz Total(E2-YZ), Max=-0.77dB



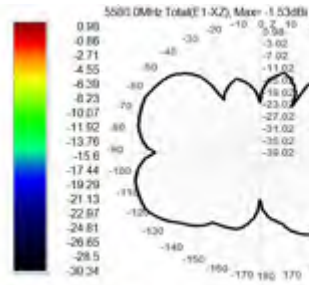
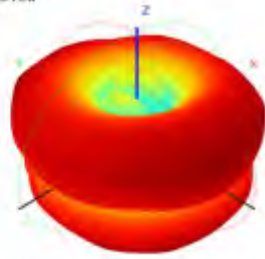
Total(H+XY), Max=-6.61dB, Cx/D=6.23



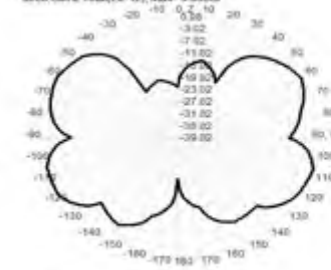
5500 MHz H+V, EE 42.4%



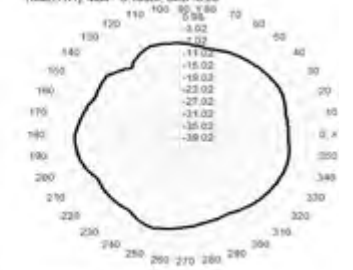
Back View



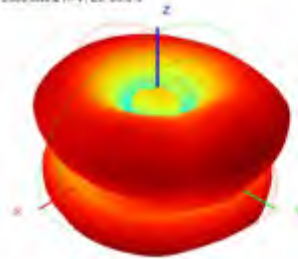
5500 MHz Total(E1-XZ), Max=-1.53dB



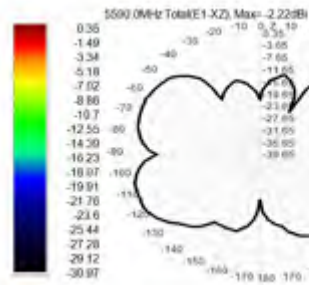
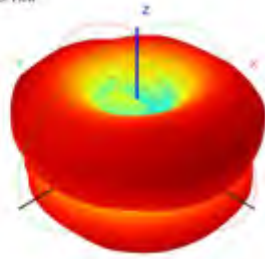
Total(H+V), Max=-6.46dB, CnD=6.53



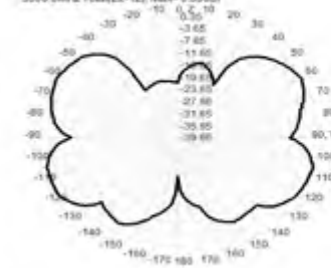
5500 MHz H+V, EE 36.3%



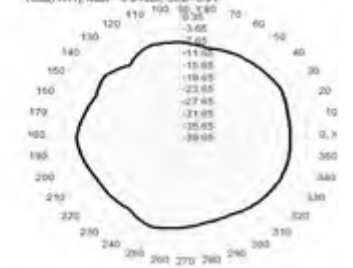
Back View



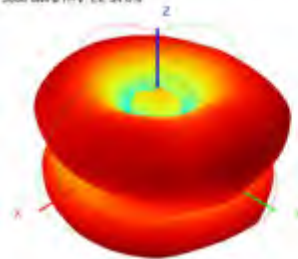
5500 MHz Total(E2-YZ), Max=-0.35dB



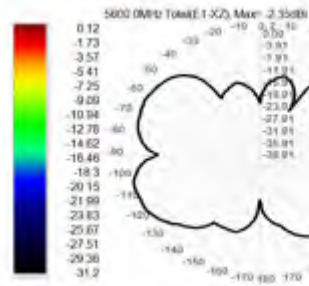
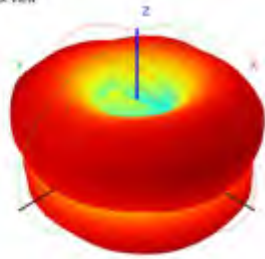
Total(H+V), Max=-6.94dB, CnD=6.94



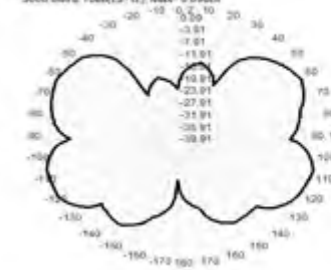
5600 MHz H+V, EE 34.6%



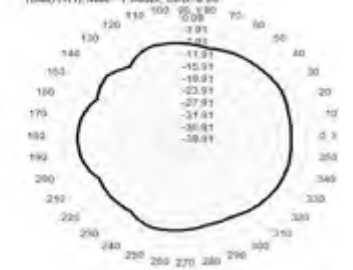
Back View



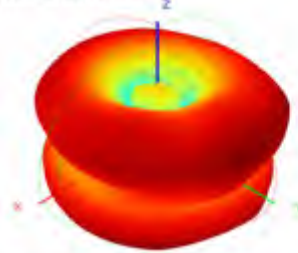
5600 MHz Total(E2-YZ), Max=-0.09dB



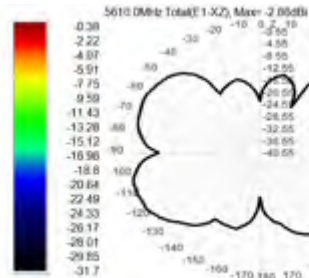
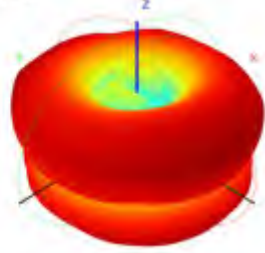
Total(H+V), Max=-7.06dB, CnD=6.96



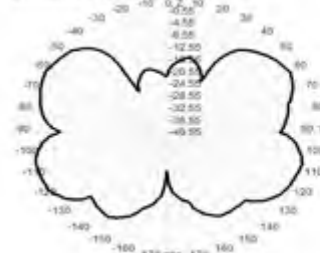
5610 (MHz) H+V, EE 29.8%



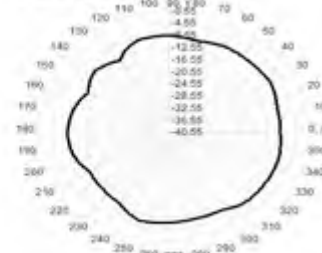
Back View



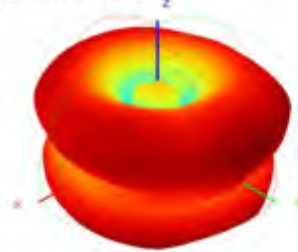
5610 (MHz) Total(E2-YZ), Max=-0.55dB



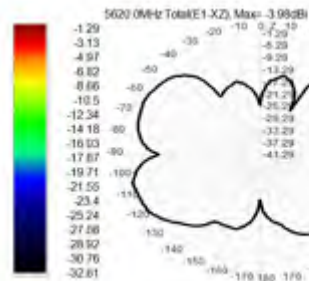
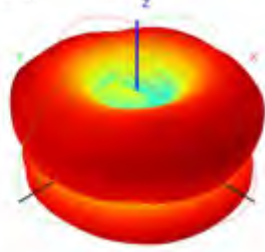
Total(H+V), Max=-7.50dB, CrD=7.48



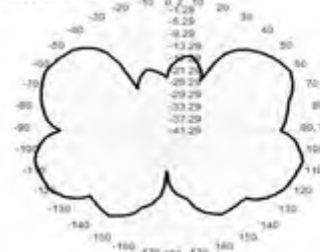
5620 (MHz) H+V, EE 24.7%



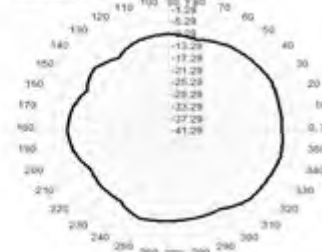
Back View



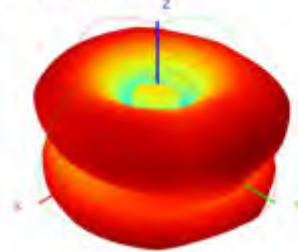
5620 (MHz) Total(E2-YZ), Max=-1.29dB



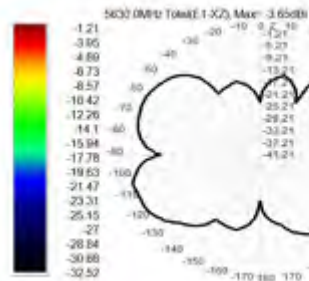
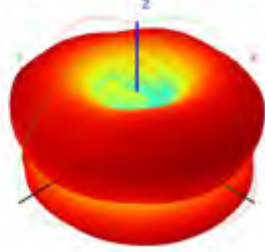
Total(H+V), Max=-8.10dB, CrD=6.12



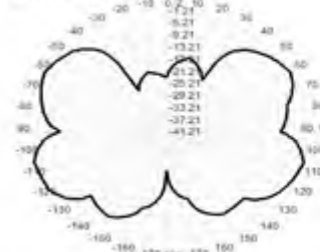
5630 (MHz) H+V, EE 25.6%



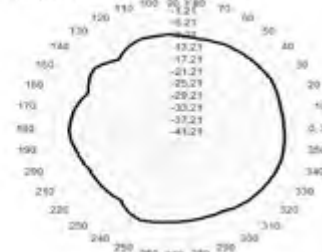
Back View



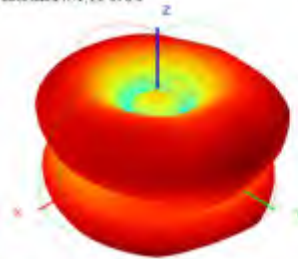
5630 (MHz) Total(E2-YZ), Max=-1.21dB



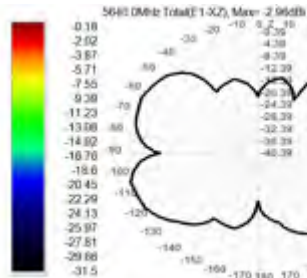
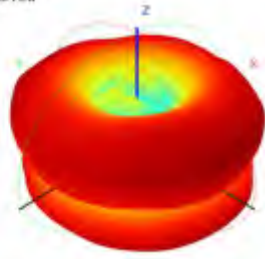
Total(H+V), Max=-7.67dB, CrD=6.18



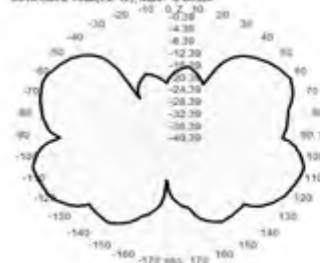
5640 MHz H+V, EE 31.3%



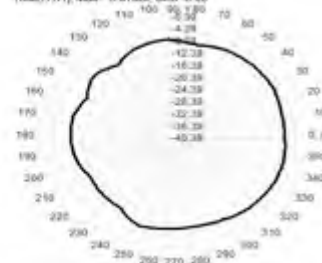
Back View



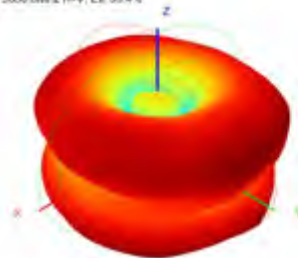
5640 MHz Total(E2-YZ), Max=-0.30dB



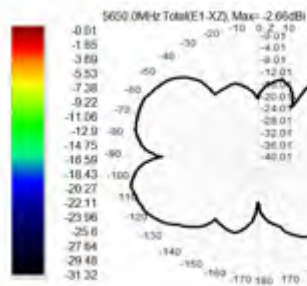
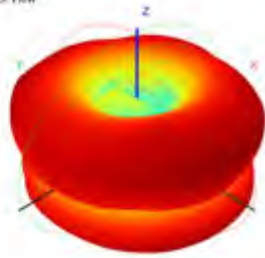
Total(H+XY), Max=-8.61dB, CrD=6.50



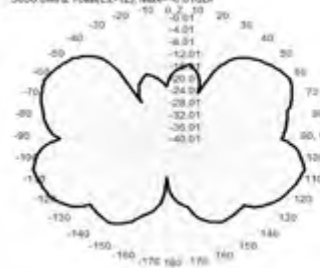
5660 MHz H+V, EE 33.4%



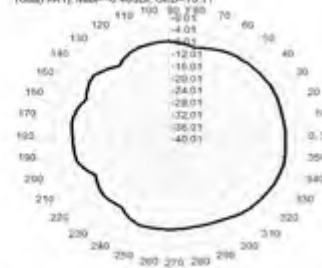
Back View



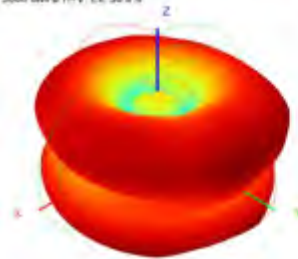
5660 MHz Total(E2-YZ), Max=-0.01dB



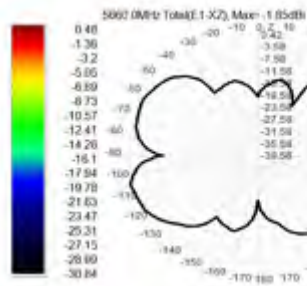
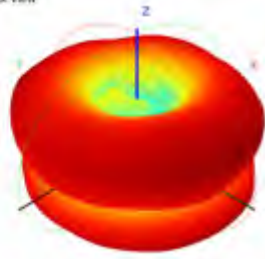
Total(H+XY), Max=-8.40dB, CrD=10.11



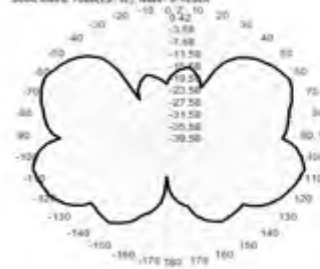
5680 MHz H+V, EE 35.9%



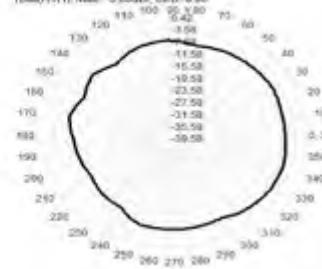
Back View

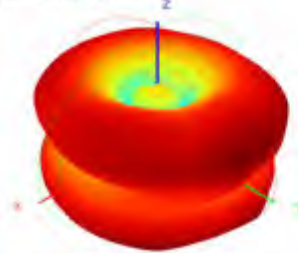
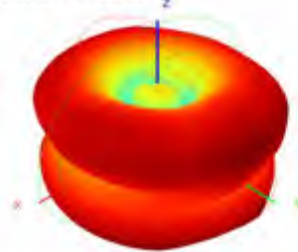
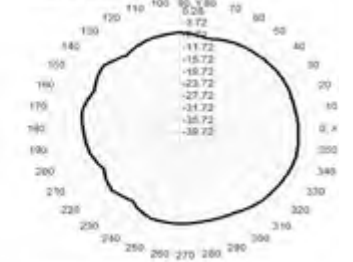
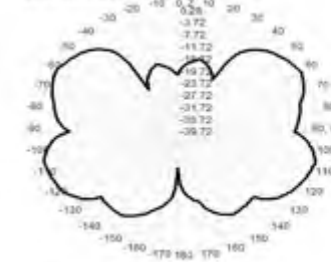
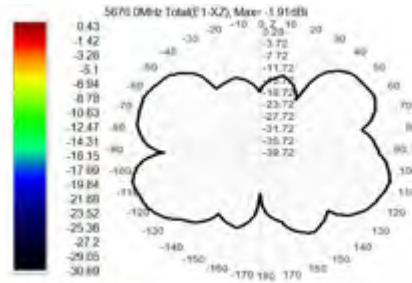
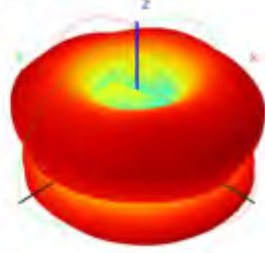


5680 MHz Total(E2-YZ), Max=0.42dB

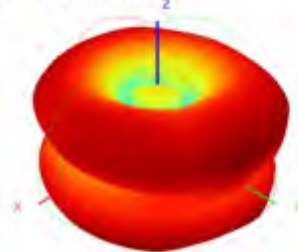
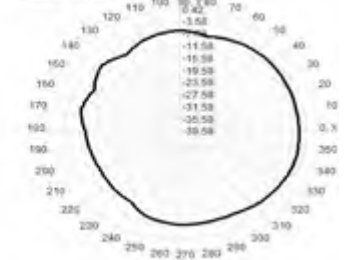
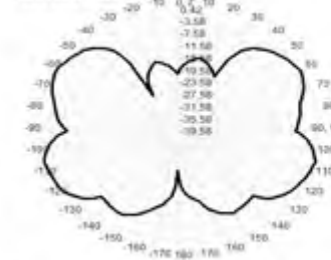
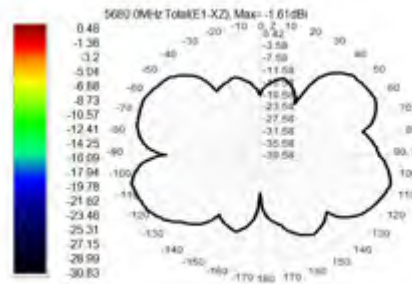
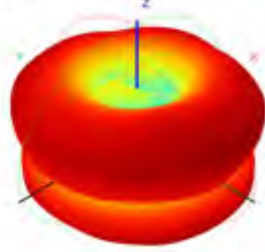
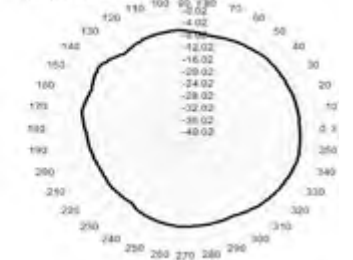
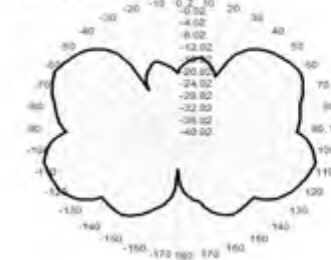
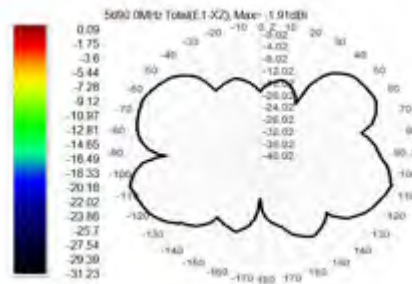
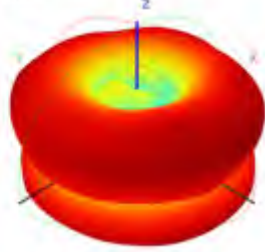


Total(H+XY), Max=-5.85dB, CrD=6.90

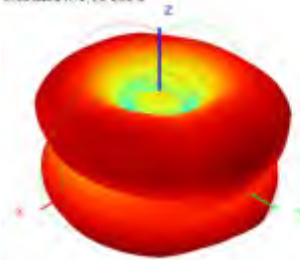


[Back View](#)

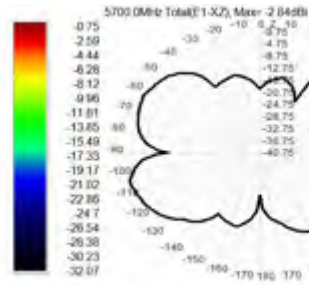
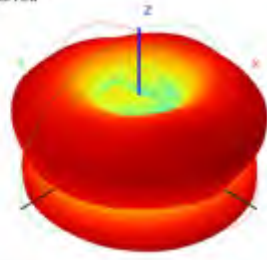
[Back View](#)

[Back View](#)

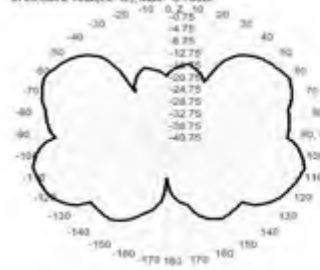
5700 MHz H+V, EE 26.2%



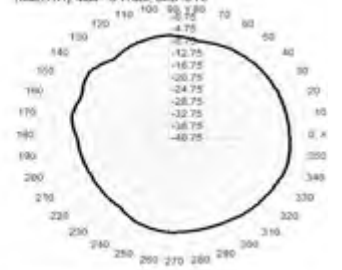
Back View



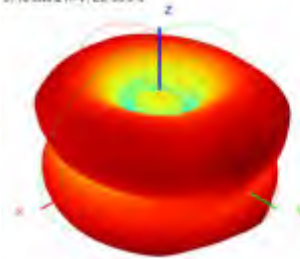
5700 MHz Total(E2-YZ), Max=-6.75dB



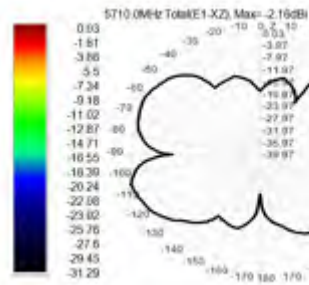
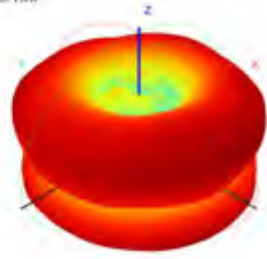
Total H+XY, Max=-6.17dB, CnD=0.70



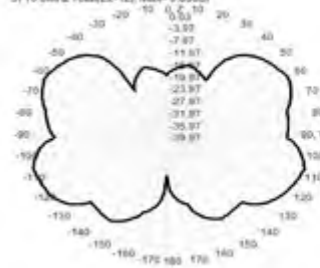
5710 MHz H+V, EE 33.0%



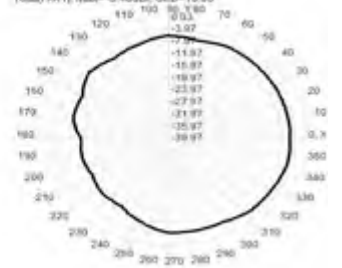
Back View



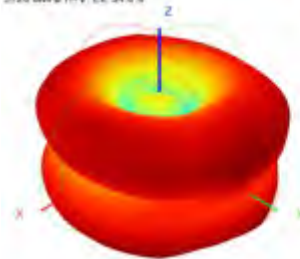
5710 MHz Total(E2-YZ), Max=-0.03dB



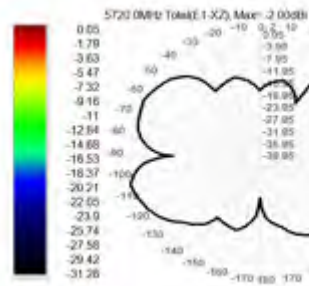
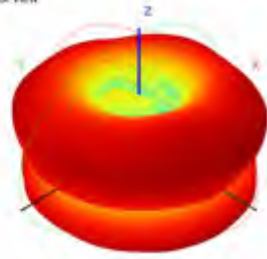
Total H+XY, Max=-5.48dB, CnD=10.03



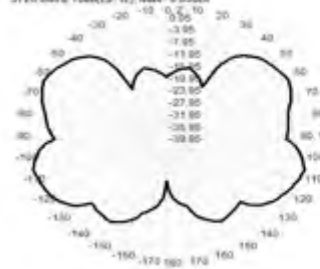
5720 MHz H+V, EE 34.0%



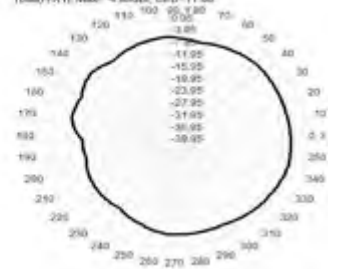
Back View



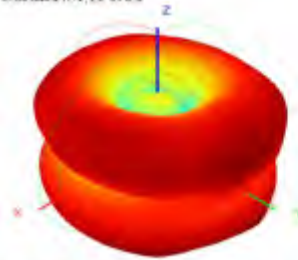
5720 MHz Total(E2-YZ), Max=-0.05dB



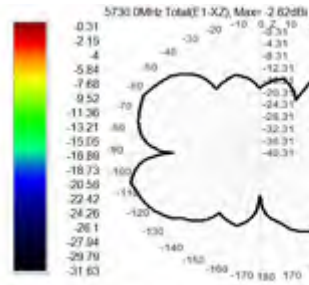
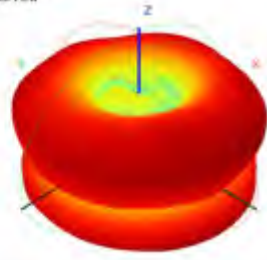
Total H+XY, Max=-4.88dB, CnD=11.08



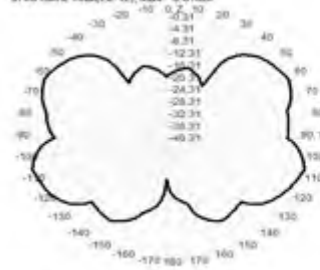
5730 MHz H+V, EE 31.0%



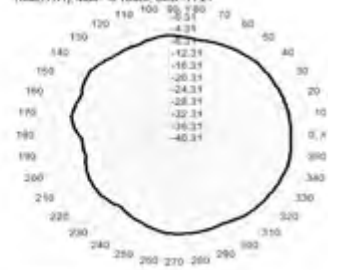
Back View



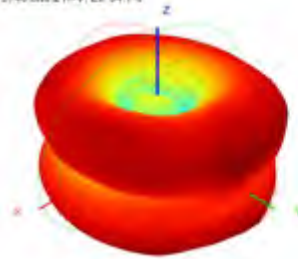
5730 MHz Total(E2-YZ), Max=-0.31dB



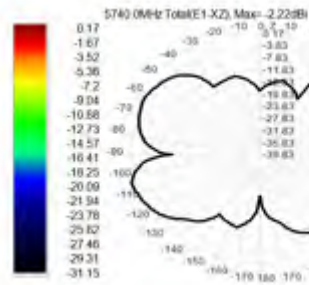
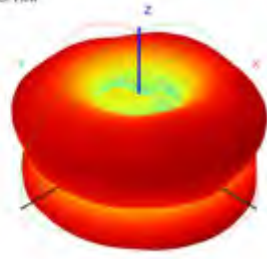
Total(H+V), Max=-5.15dB, CrD=11.27



5740 MHz H+V, EE 34.1%



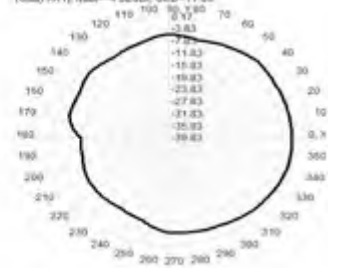
Back View



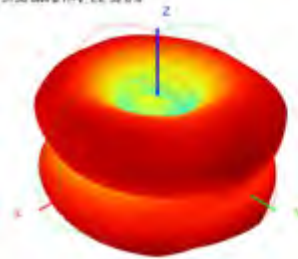
5740 MHz Total(E2-YZ), Max=-0.17dB



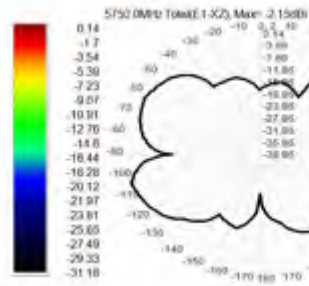
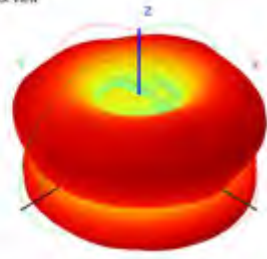
Total(H+V), Max=-4.30dB, CrD=11.09



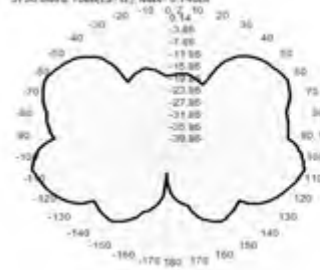
5750 MHz H+V, EE 32.8%



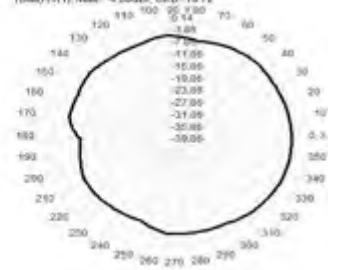
Back View



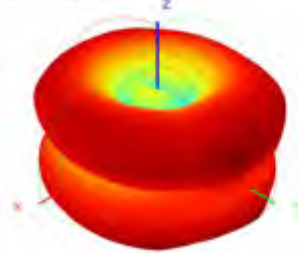
5750 MHz Total(E2-YZ), Max=-0.14dB



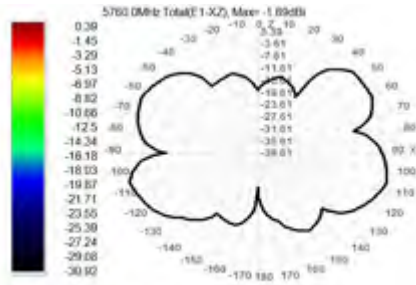
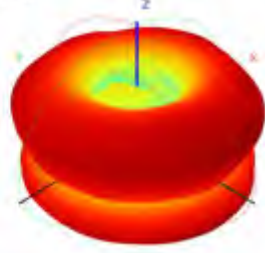
Total(H+V), Max=-4.50dB, CrD=10.72



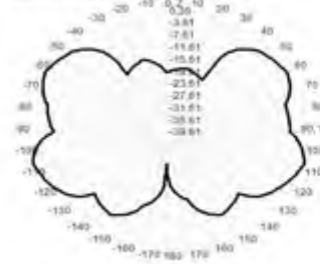
5760 MHz H+V, EE 35.0%



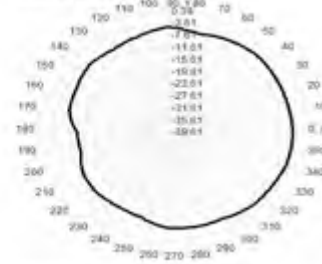
Back View



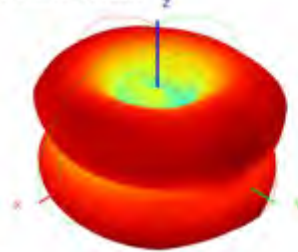
5760 MHz Total(E2-YZ), Max=0.39dB



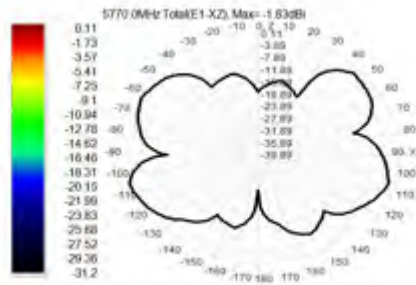
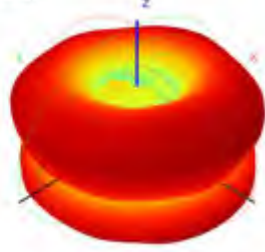
Total(H+V), Max=-4.11dB, CnD=10.23



5770 MHz H+V, EE 33.3%



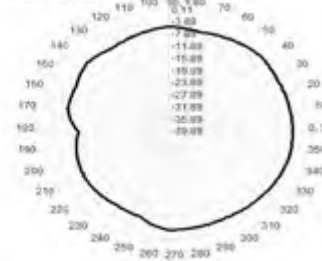
Back View



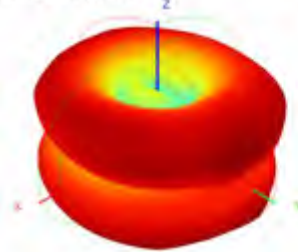
5770 MHz Total(E2-YZ), Max=0.11dB



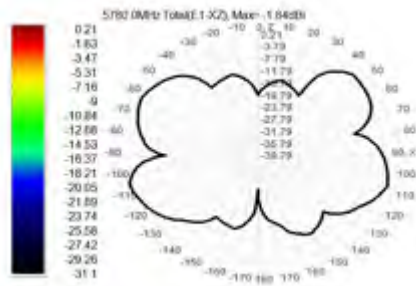
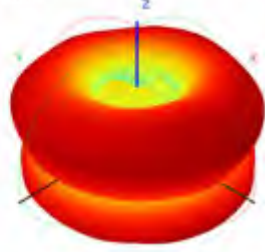
Total(H+V), Max=-4.06dB, CnD=10.66



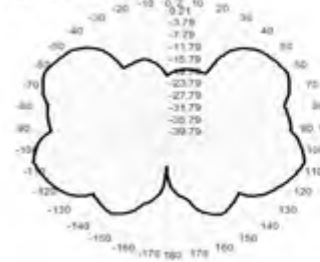
5780 MHz H+V, EE 33.3%



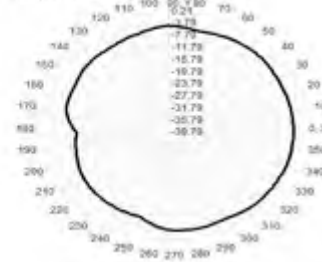
Back View



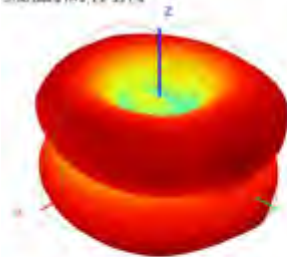
5780 MHz Total(E2-YZ), Max=0.21dB



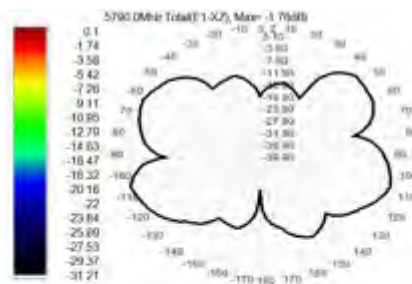
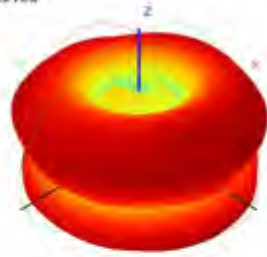
Total(H+V), Max=-3.99dB, CnD=10.17



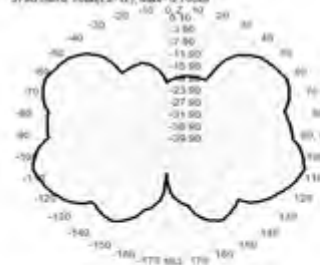
5790 MHz H+V, EF 33.7%



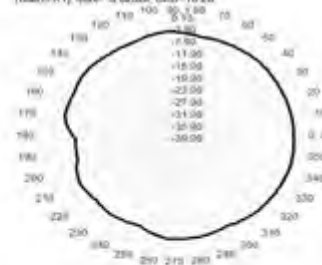
Back View



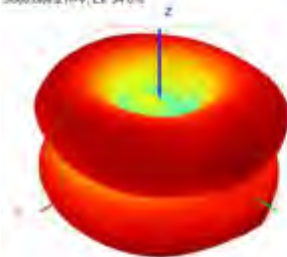
5790 MHz Total(E2-YZ), Max=0.10dB



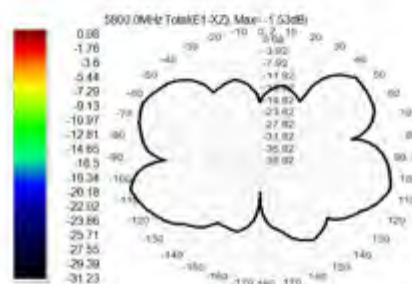
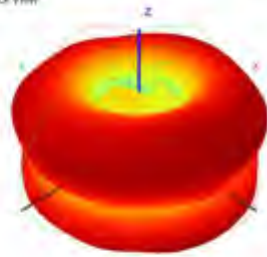
Total(HXY), Max=-3.62dB, CoD=10.20



5800 MHz H+V, EF 34.0%



Back View



5800 MHz Total(E2-YZ), Max=0.09dB



Total(HXY), Max=-3.37dB, CoD=10.34

