



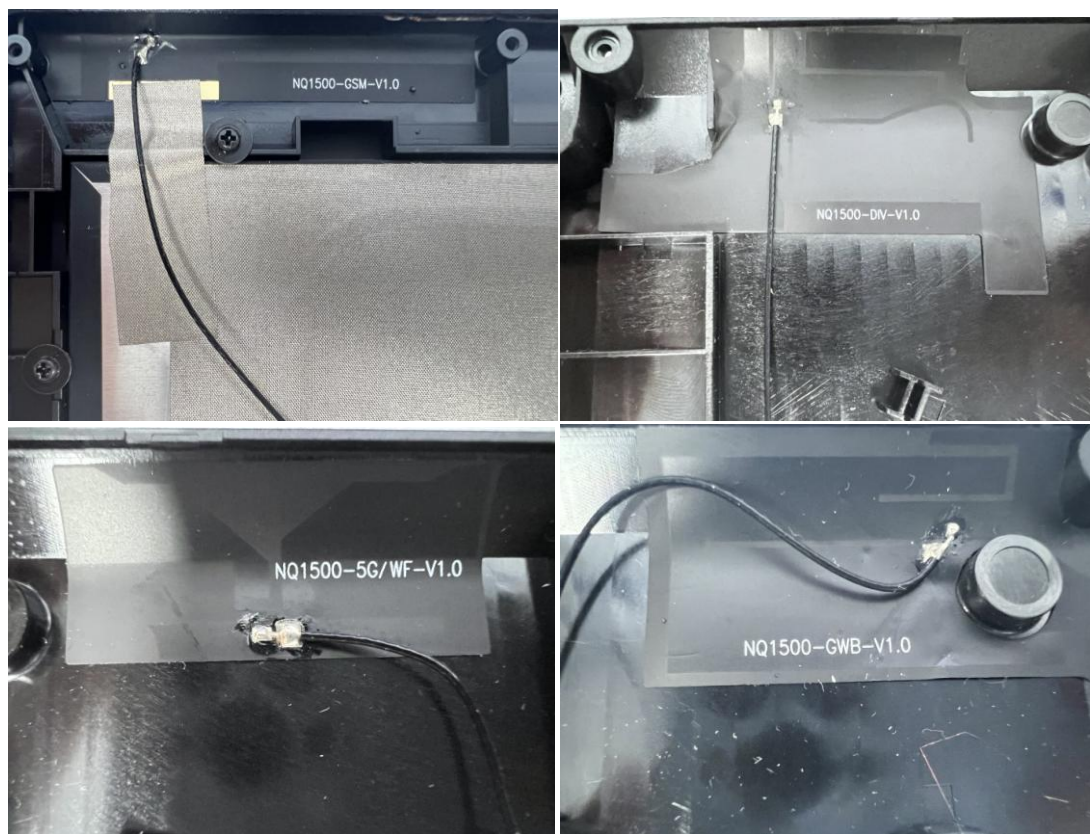
Shenzhen Dosking Technology Co., Ltd

Room 403, West, Building 2, Pingshan Private Enterprise Science and Technology Park, No. 65, Lishan

Road, Pingshan Community, Taoyuan Sub-district, Nanshan District, Shenzhen City

深圳市德仕勤科技有限公司

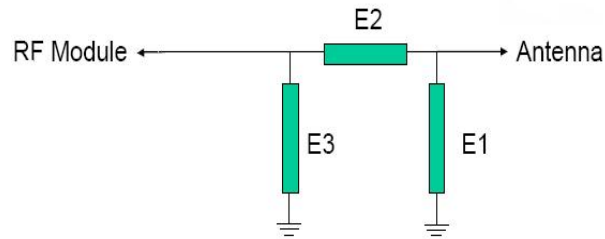
DOSKING Antenna Test Report



1.The Equipment of Active Test

1. ETS Chamber 7×4×3(m)/3*3*3 (m)
2. 矢量网络分析仪(无源测试仪)Vector network analyzer (Passive Tester)
3. Network analyzer-5071E/B/Comprehensive measuring instrument-8960/LTE-RS-CMW500/MT8820C support 2G、3G、4G/BT、WIFI、NB

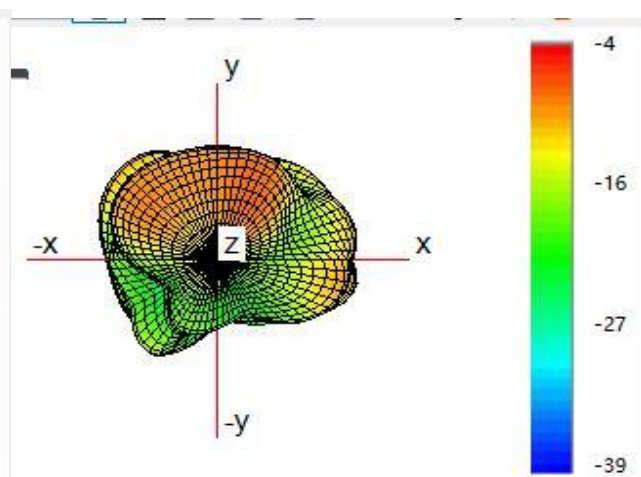
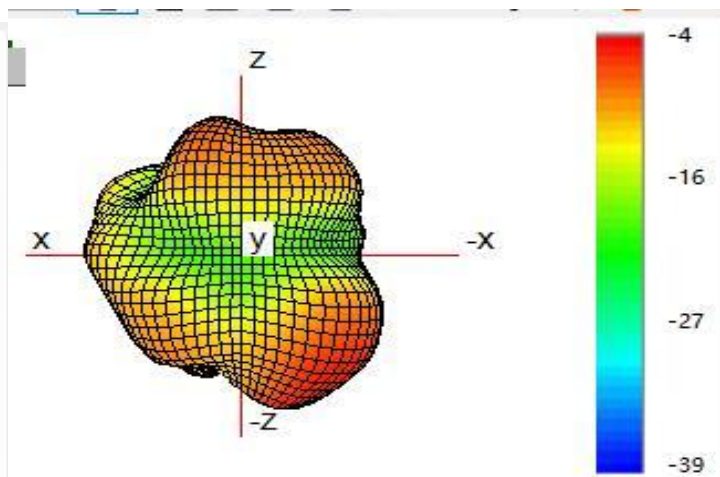
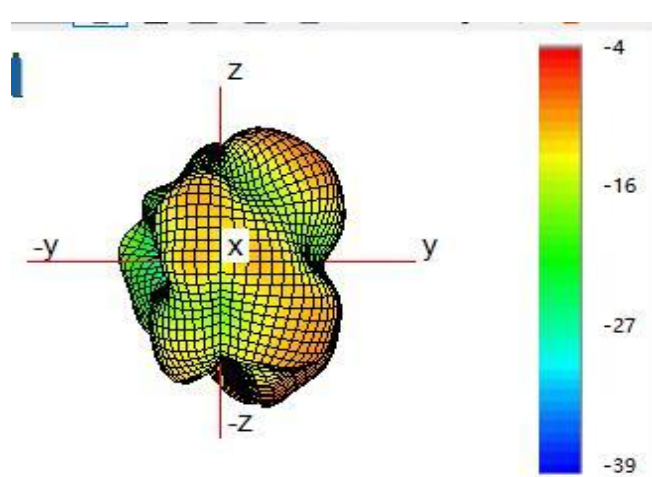
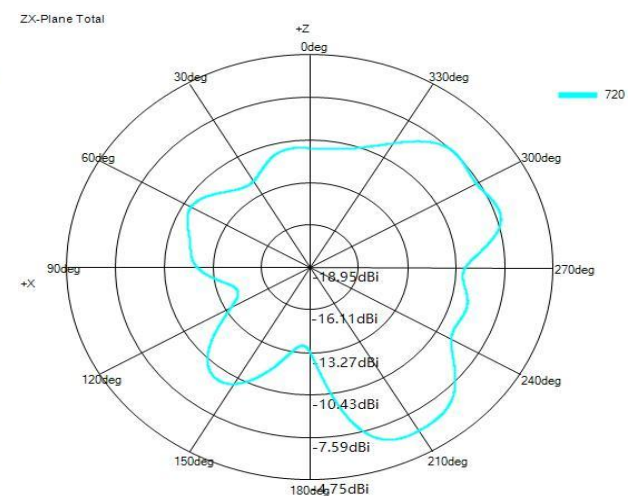
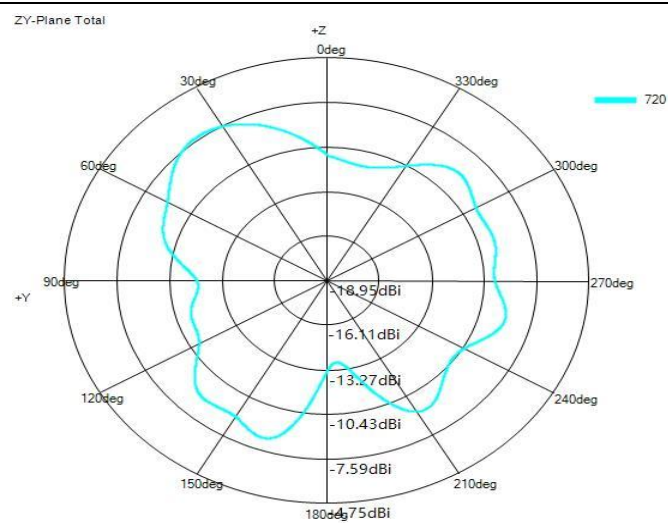
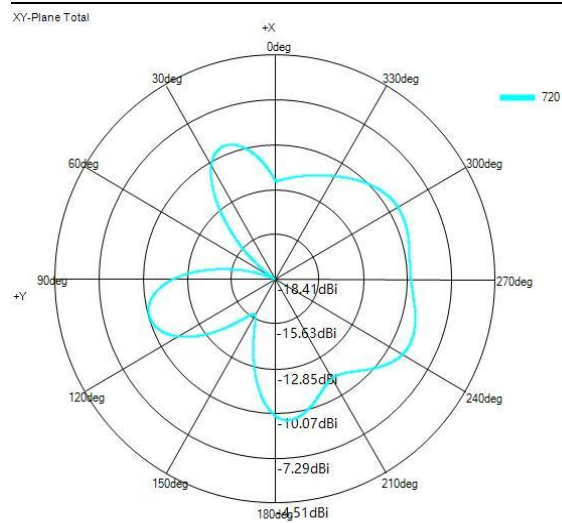
2.Matching Circuit



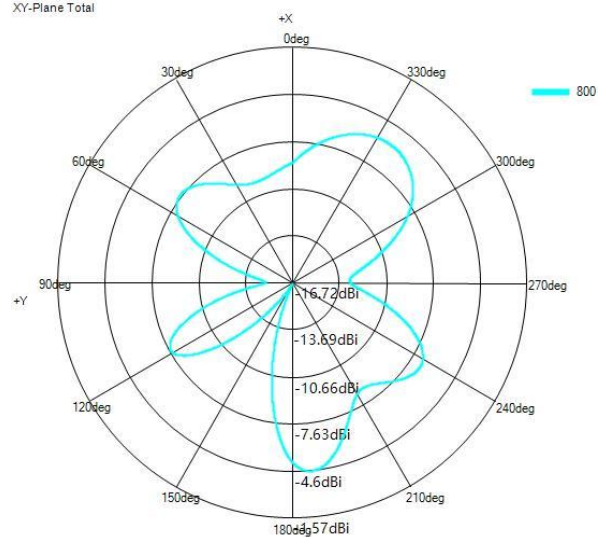
Element	Matching value
E1	
E2	
E3	

3:Passive antenna testing

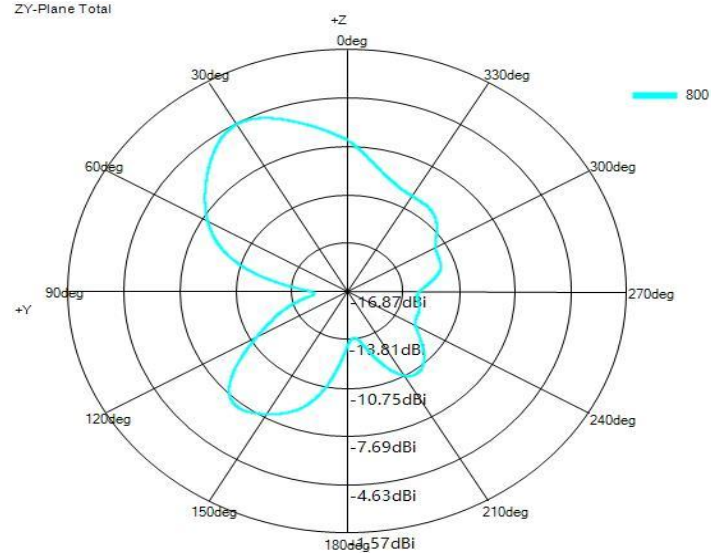
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
700	-6.08	-10.28	9.38
720	-4.80	-9.52	11.16
740	-3.80	-9.02	12.53
760	-2.84	-8.51	14.08
780	-2.03	-7.88	16.30
800	-1.61	-7.36	18.35
820	-1.54	-7.09	19.53
840	-1.58	-6.84	20.68
860	-2.04	-6.75	21.13
880	-2.52	-6.63	21.74
900	-2.63	-6.47	22.53
920	-2.89	-6.33	23.28
940	-2.46	-6.30	23.46
960	-1.87	-6.66	21.55



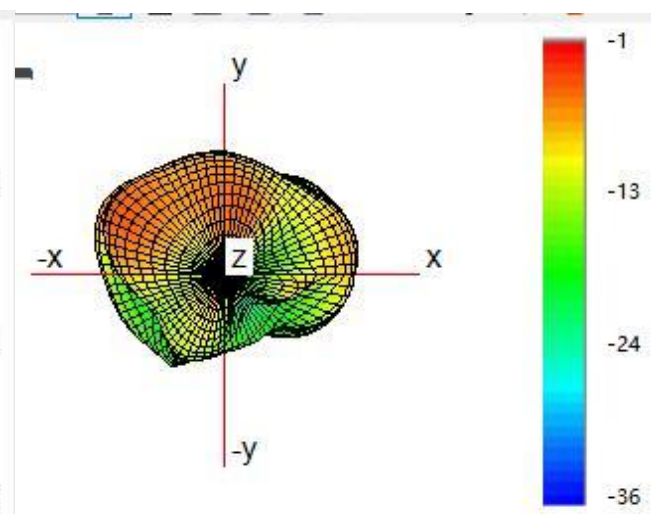
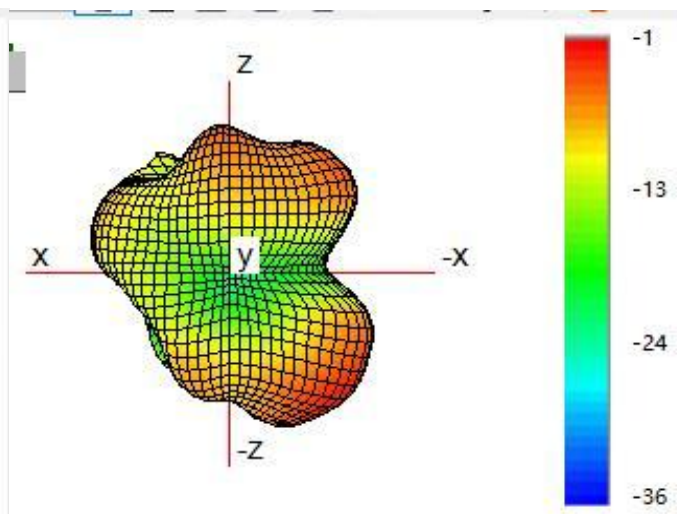
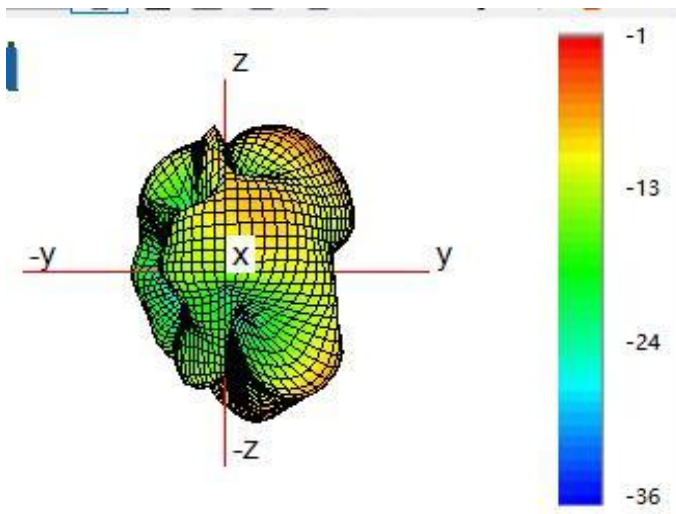
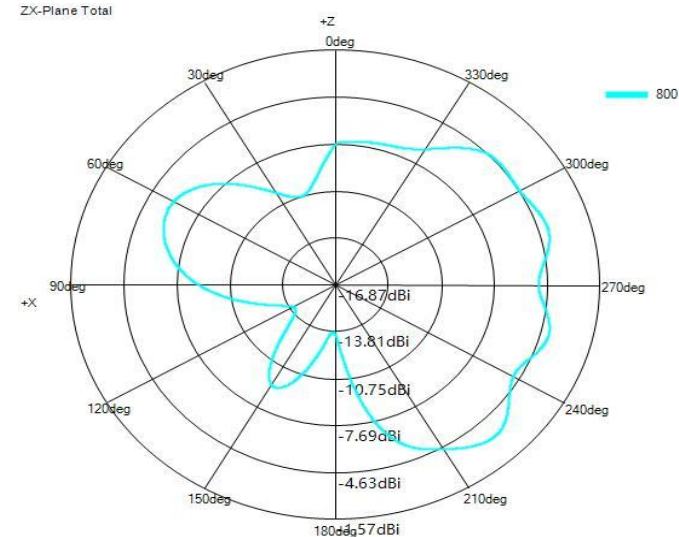
XY-Plane Total



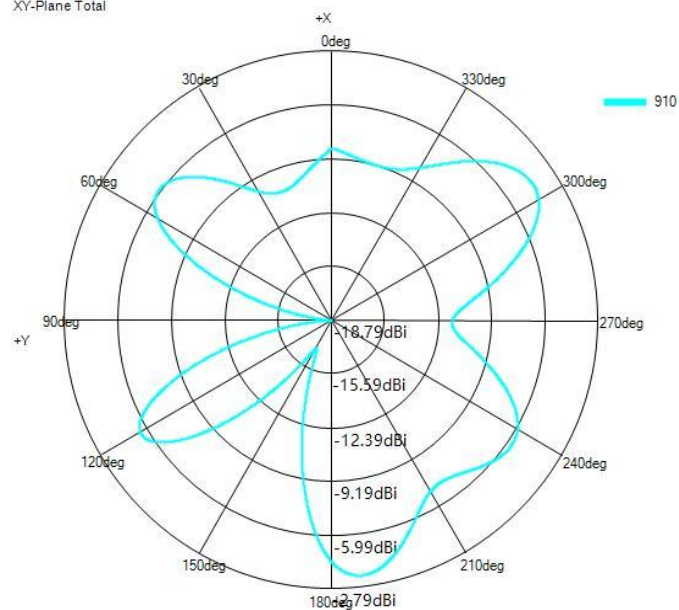
ZY-Plane Total



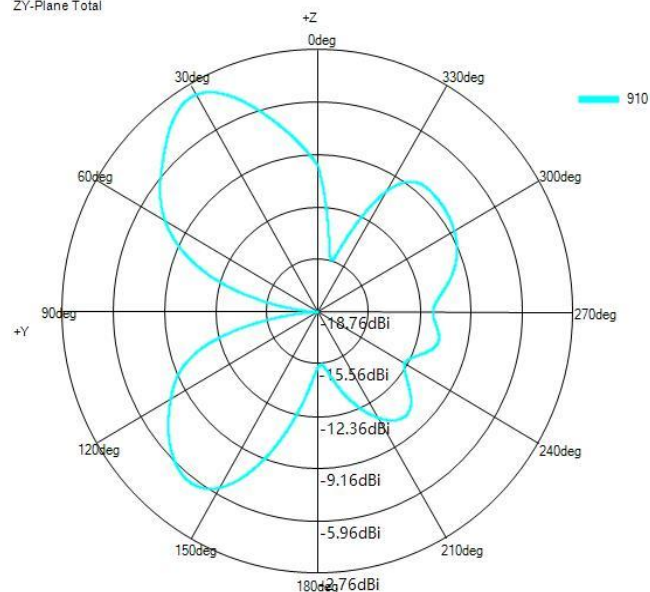
ZX-Plane Total



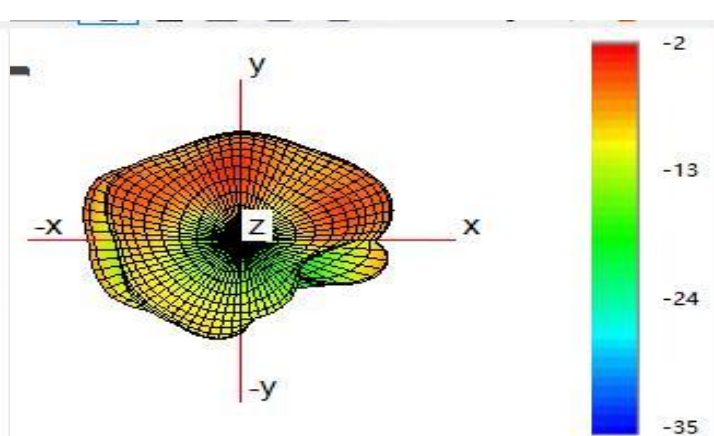
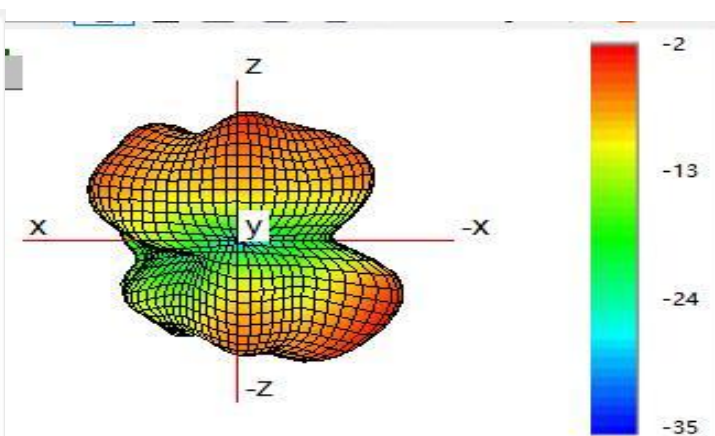
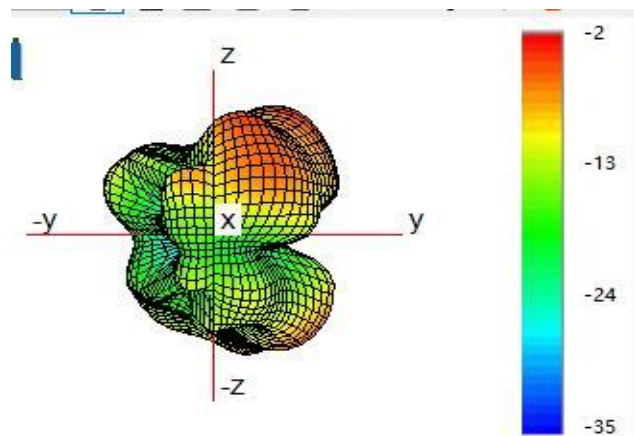
XY-Plane Total



ZY-Plane Total



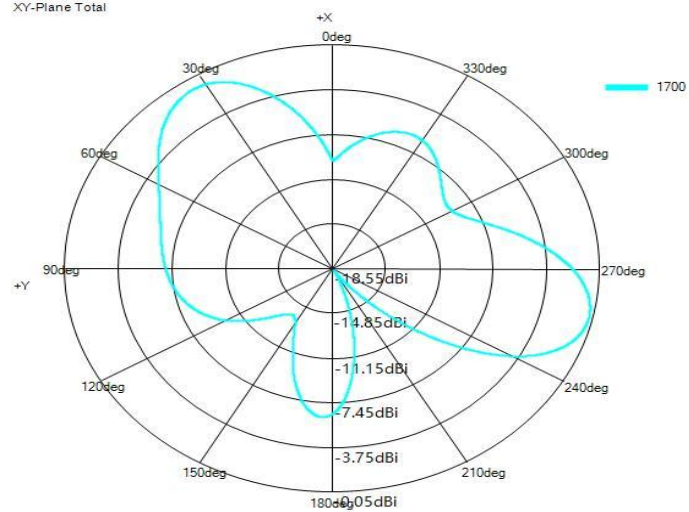
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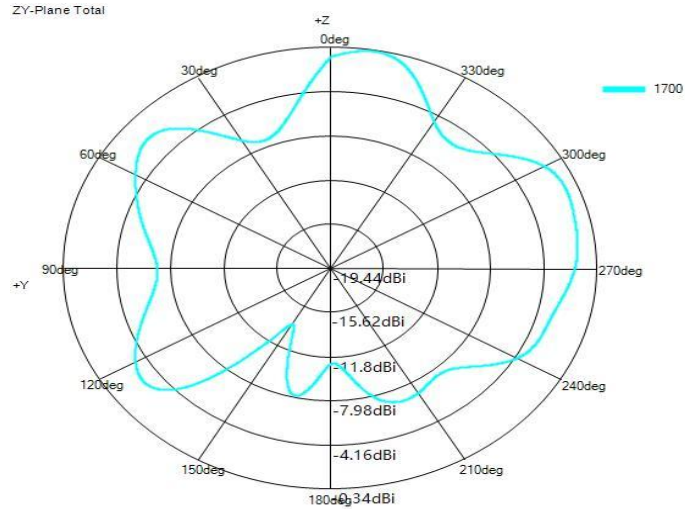


Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)				
1700	-0.42	-4.96	31.88	2200	1.54	-3.42	45.53
1740	-0.23	-4.30	37.15	2240	1.31	-3.38	45.87
1760	-0.12	-4.42	36.18	2260	1.04	-3.58	43.85
1780	0.56	-4.17	38.33	2280	0.96	-3.66	43.10
1800	1.11	-3.99	39.88	2300	1.15	-3.77	41.97
1820	1.47	-4.03	39.56	2320	1.64	-3.61	43.52
1840	1.25	-4.22	37.80	2340	2.01	-3.38	45.97
1860	0.65	-4.59	34.71	2360	1.79	-3.38	45.89
1880	-0.06	-4.76	33.39	2380	1.16	-3.71	42.53
1900	-0.51	-4.52	35.32	2400	0.77	-3.78	41.89
1920	-0.04	-4.14	38.56	2420	1.04	-3.66	43.10
1940	0.15	-3.73	42.37	2440	1.11	-3.78	41.92
1960	0.33	-3.69	42.72	2460	1.22	-3.86	41.10
1980	0.20	-3.95	40.27	2480	0.80	-4.28	37.34
2000	0.52	-3.95	40.25	2500	0.62	-4.37	36.60
2020	0.87	-3.62	43.49	2520	0.97	-4.16	38.38
2040	0.99	-3.42	45.48	2540	1.40	-3.91	40.67
2060	0.89	-3.59	43.75	2560	1.25	-3.76	42.11
2080	0.73	-3.70	42.64	2580	0.78	-3.89	40.83
2100	0.81	-3.51	44.54	2600	0.66	-4.15	38.49
2120	1.17	-3.08	49.23	2620	1.14	-3.96	40.19
2140	1.44	-3.01	49.96	2640	1.44	-3.77	42.02
2160	1.50	-3.37	46.04	2660	1.36	-3.80	41.69
2180	1.64	-3.37	46.00	2680	1.25	-3.87	41.04
				2700	0.79	-4.09	38.99

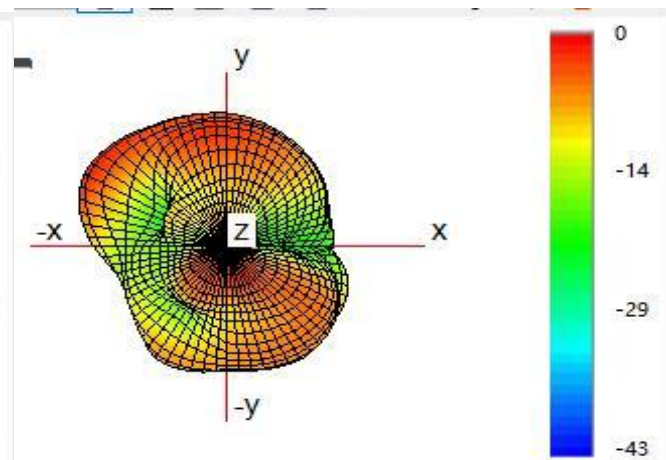
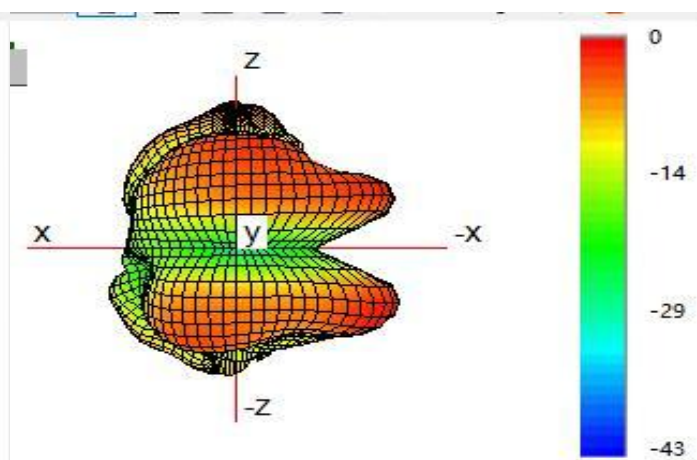
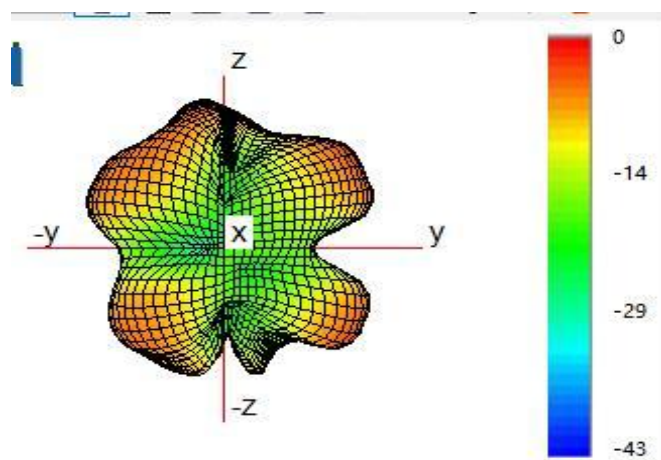
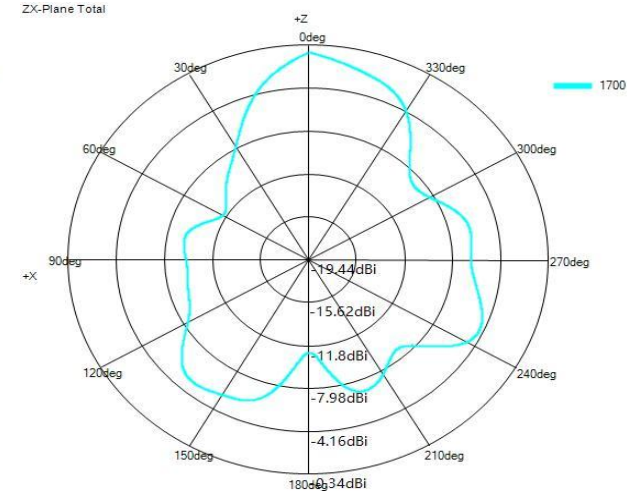
XY-Plane Total



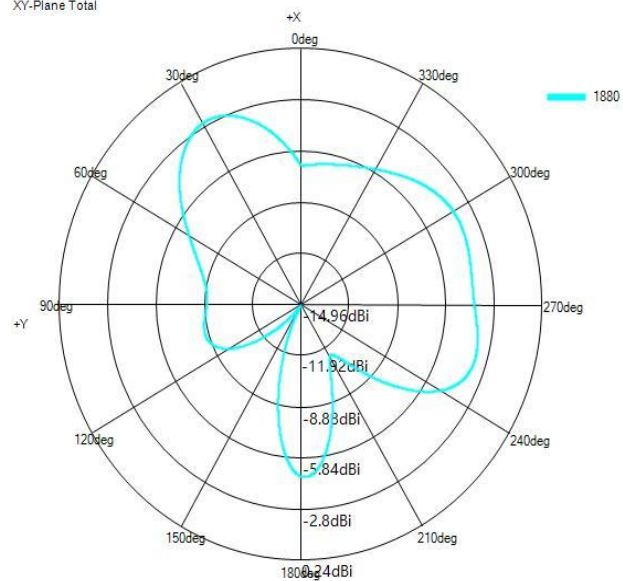
ZY-Plane Total



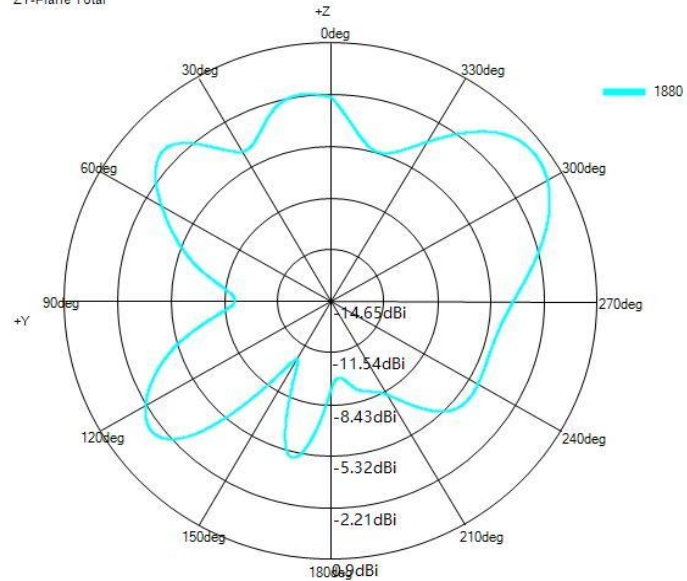
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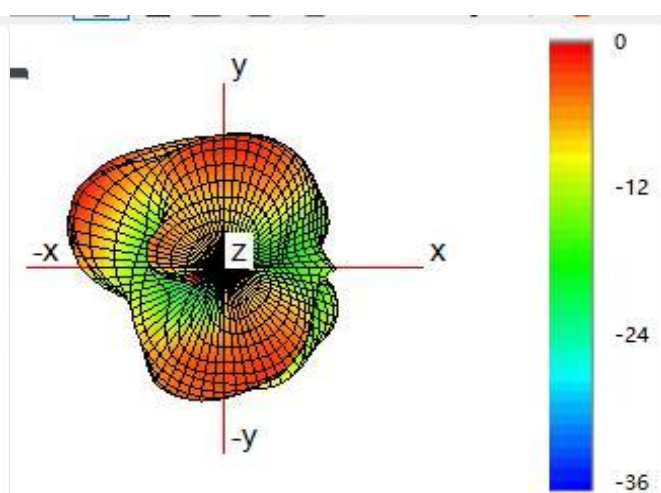
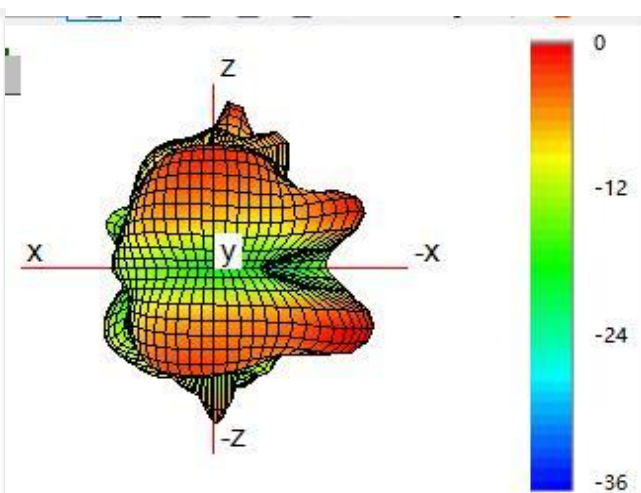
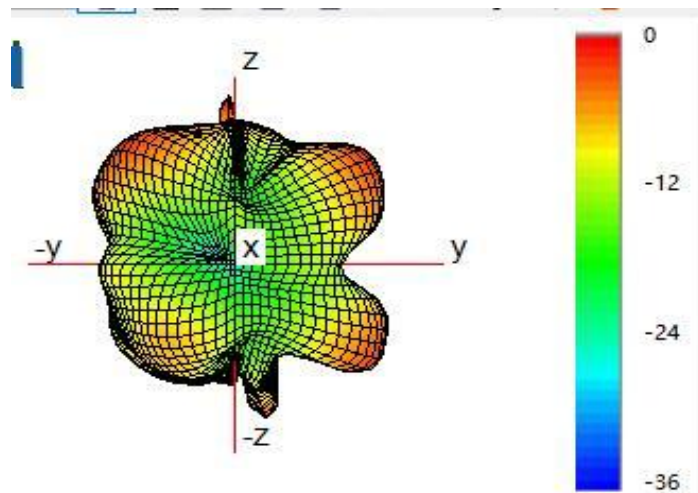
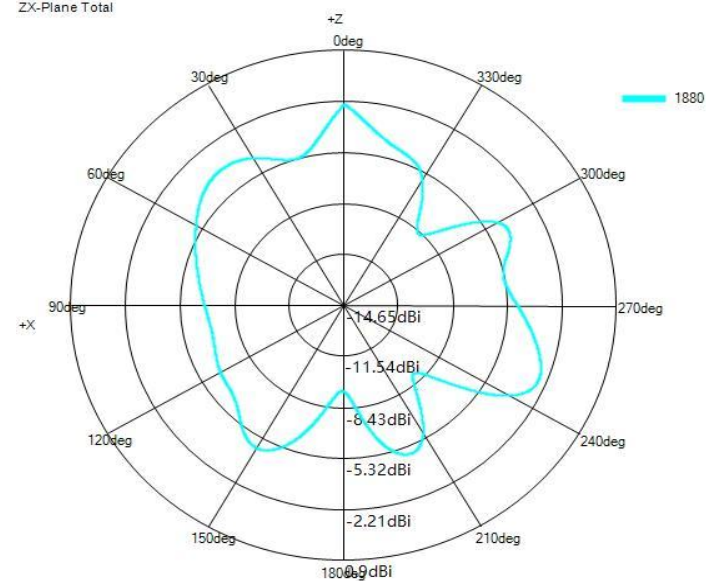
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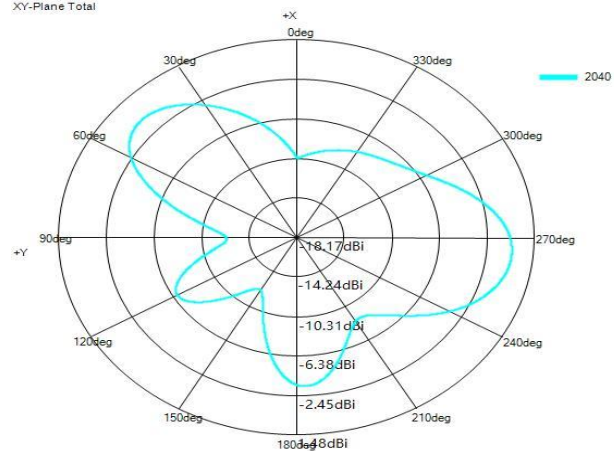
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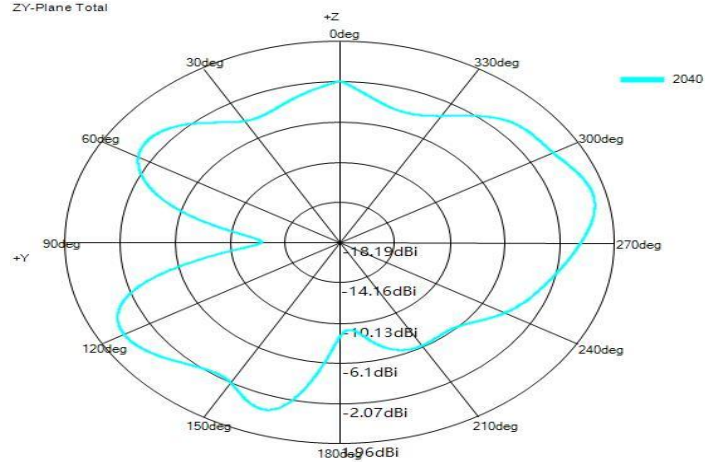
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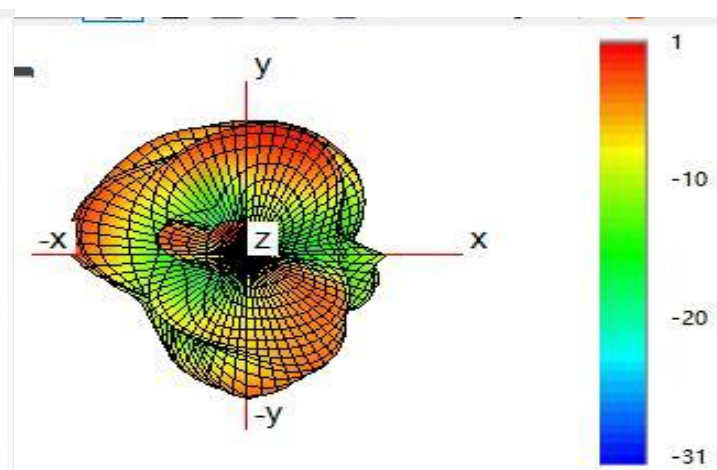
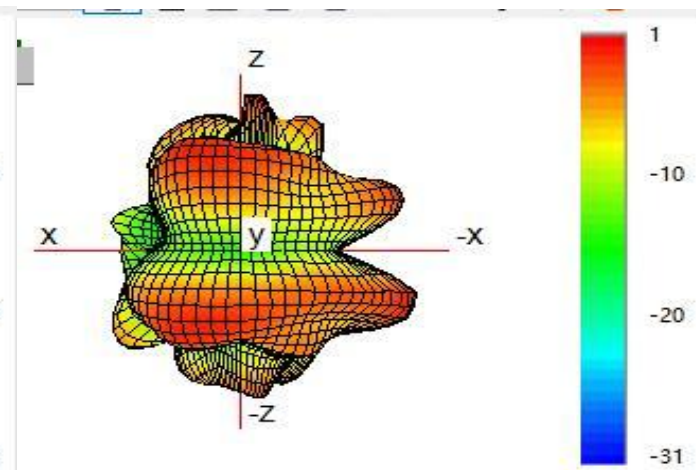
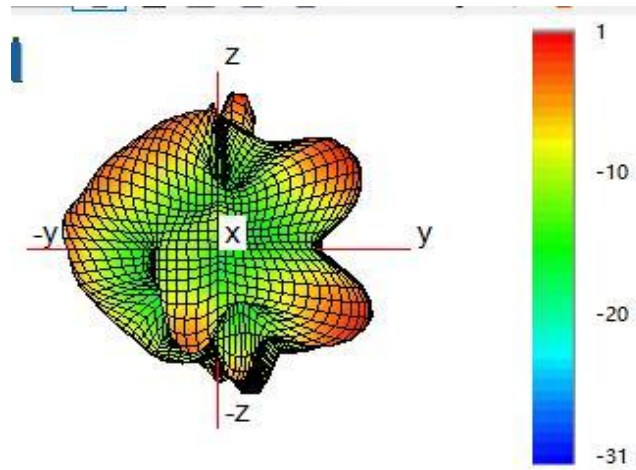
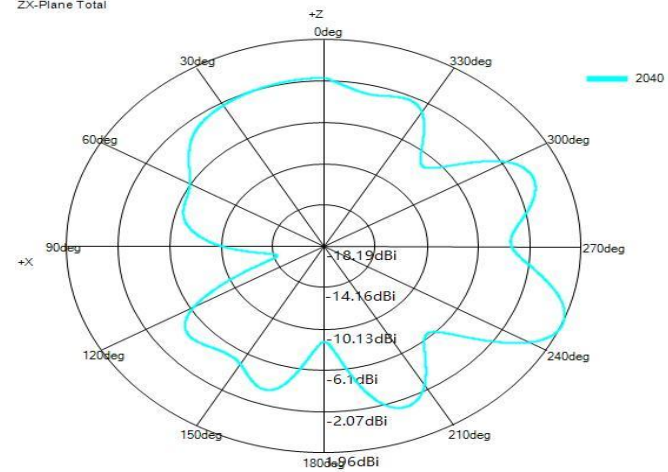
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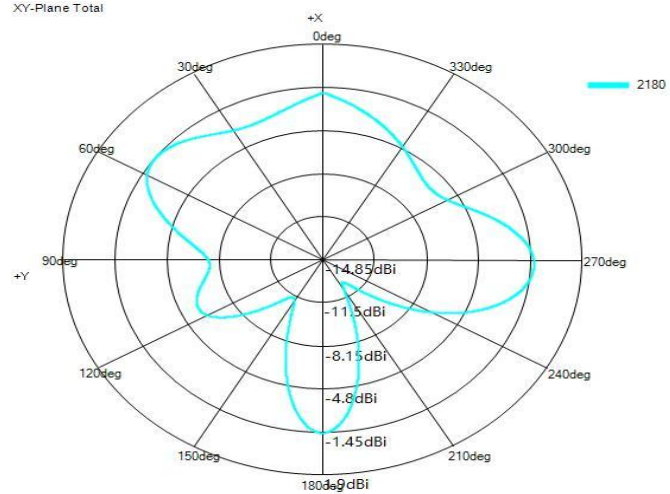
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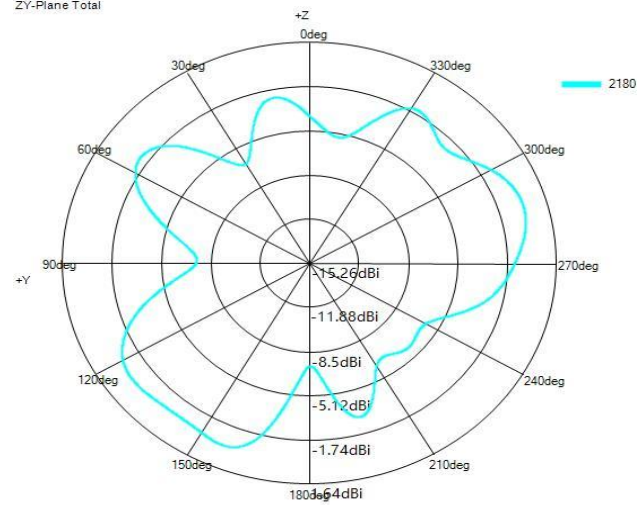
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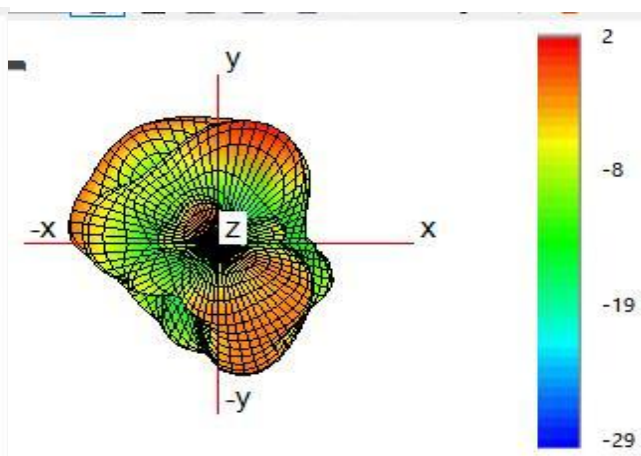
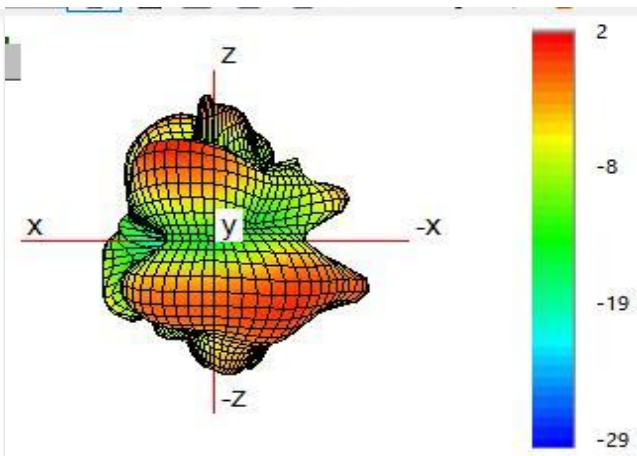
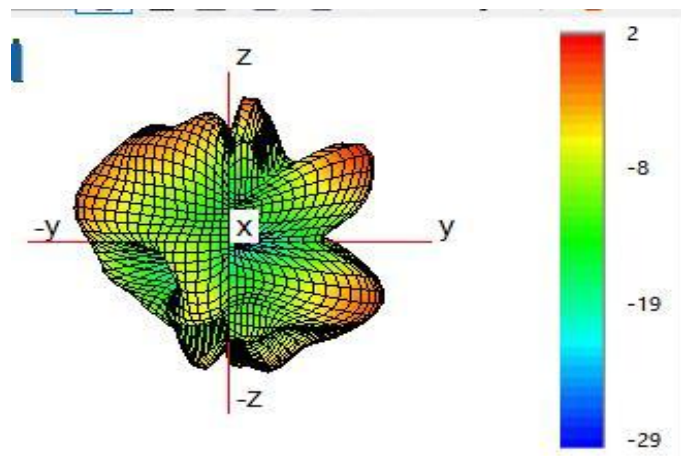
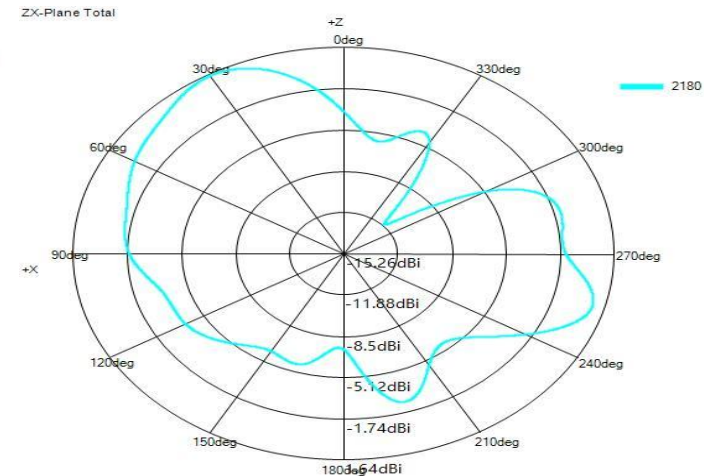
XY-Plane Total



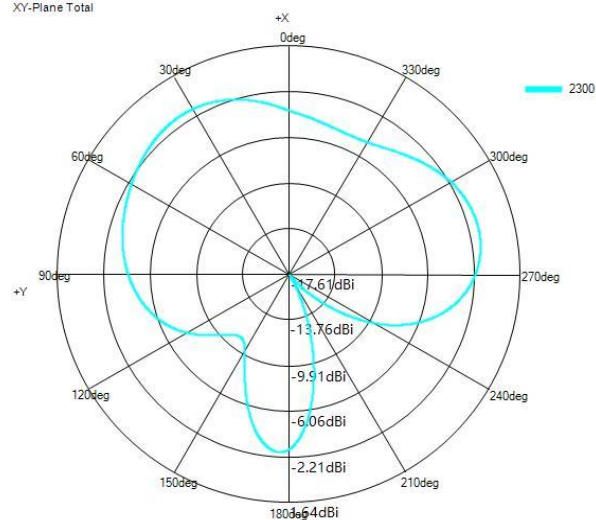
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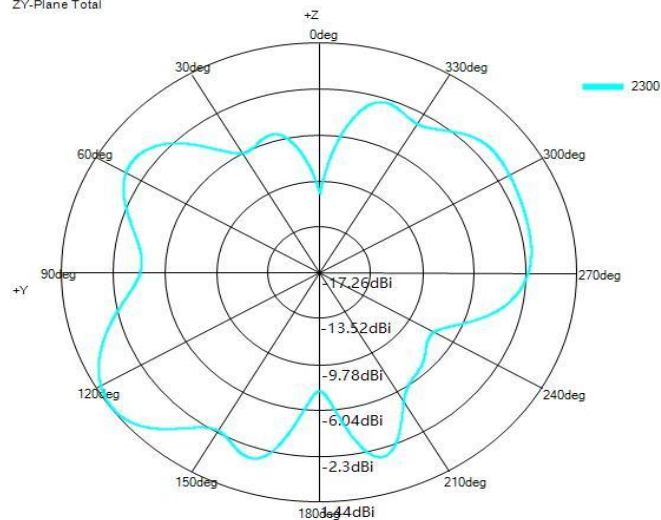
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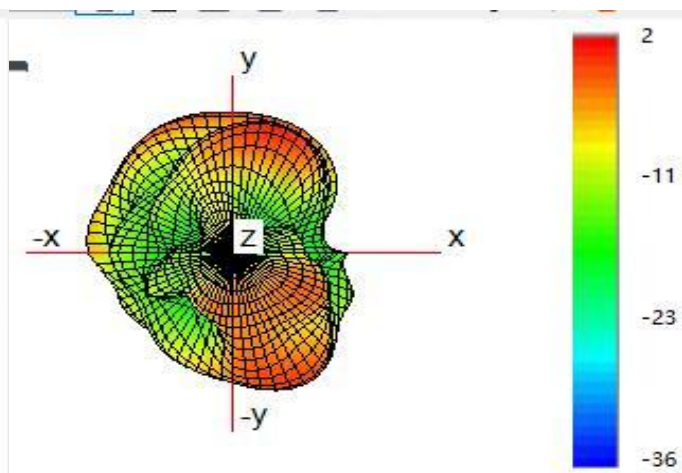
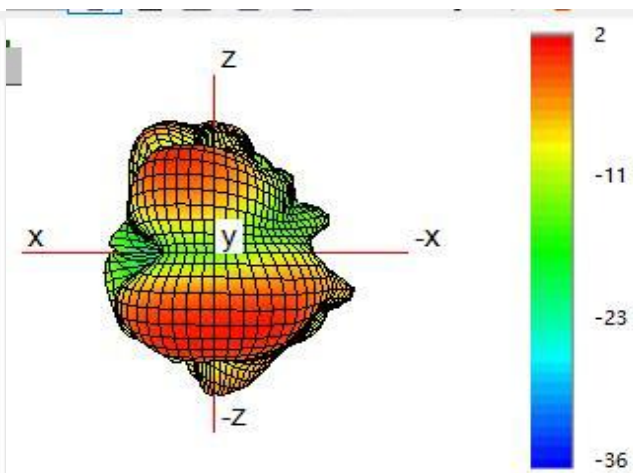
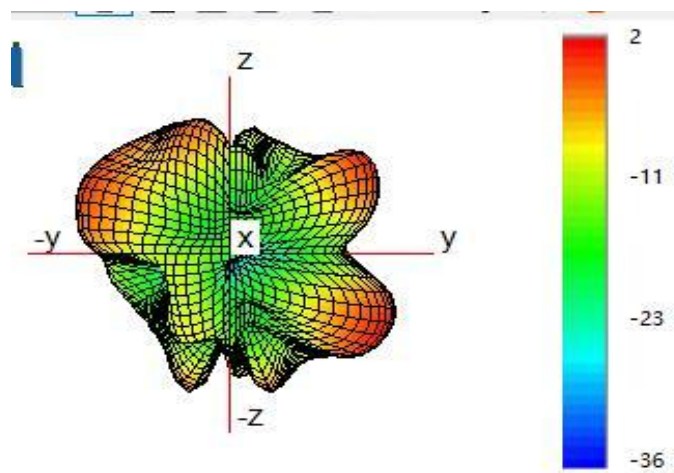
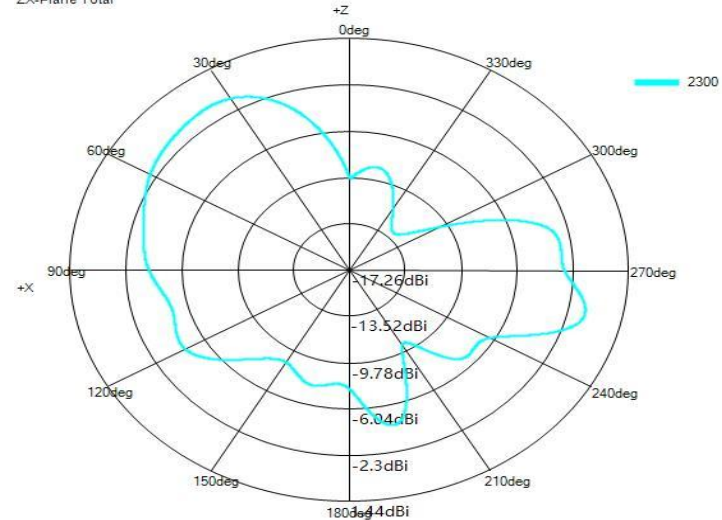
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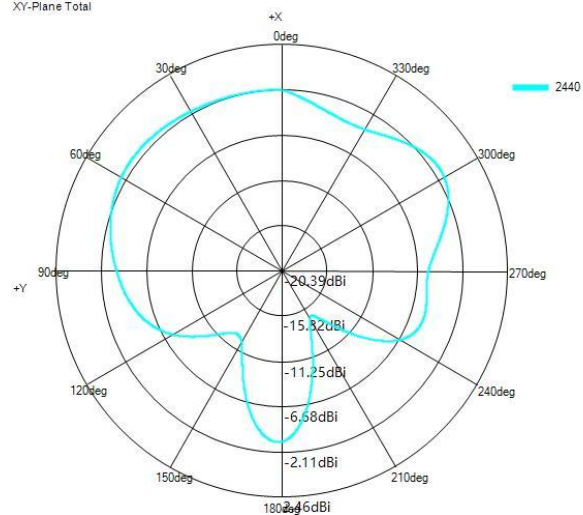
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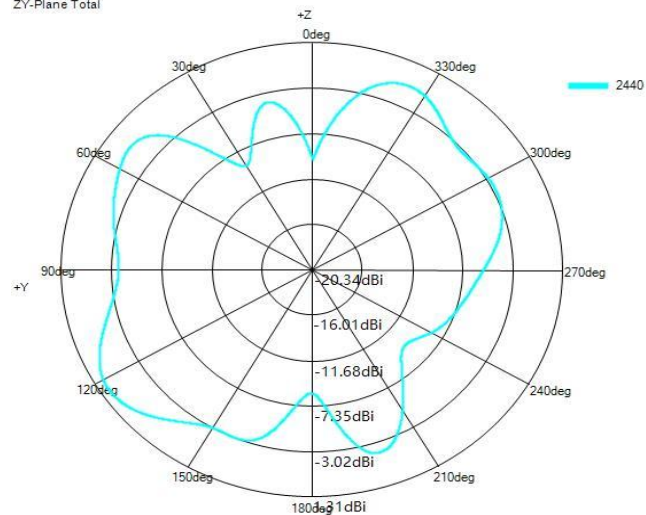
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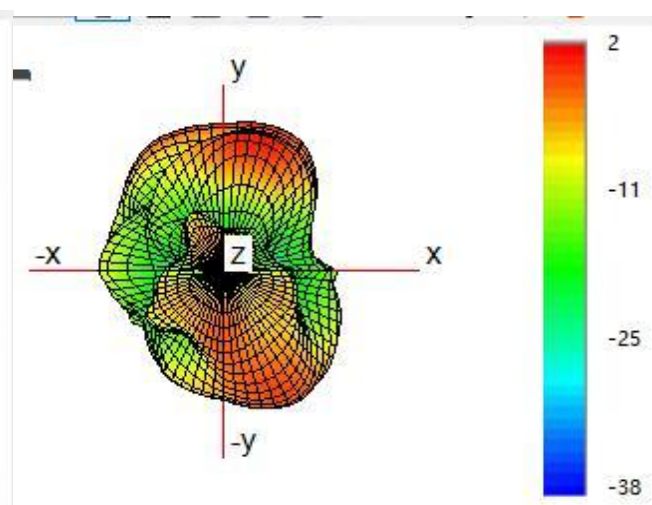
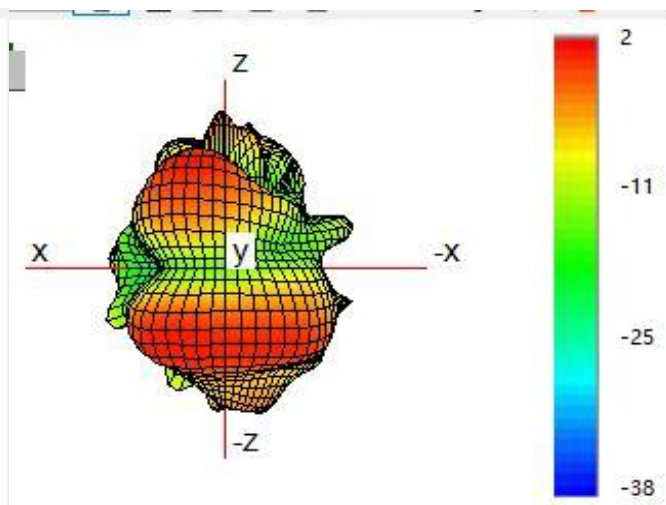
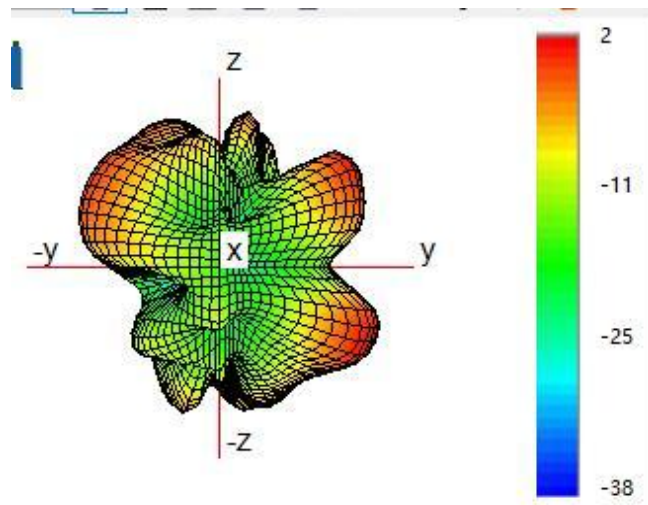
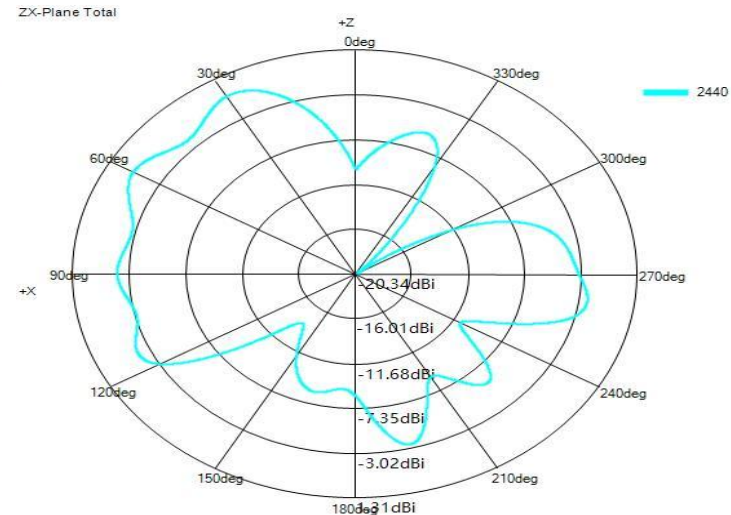
XY-Plane Total



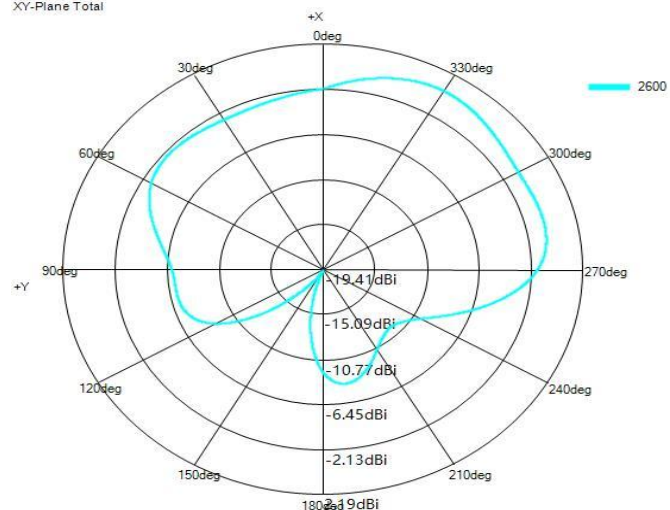
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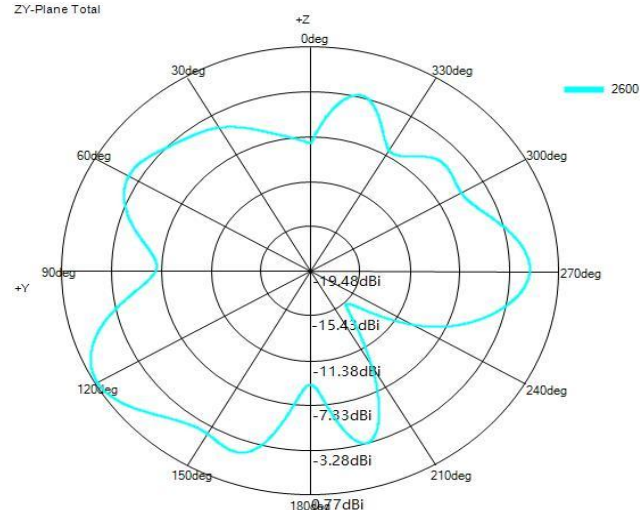
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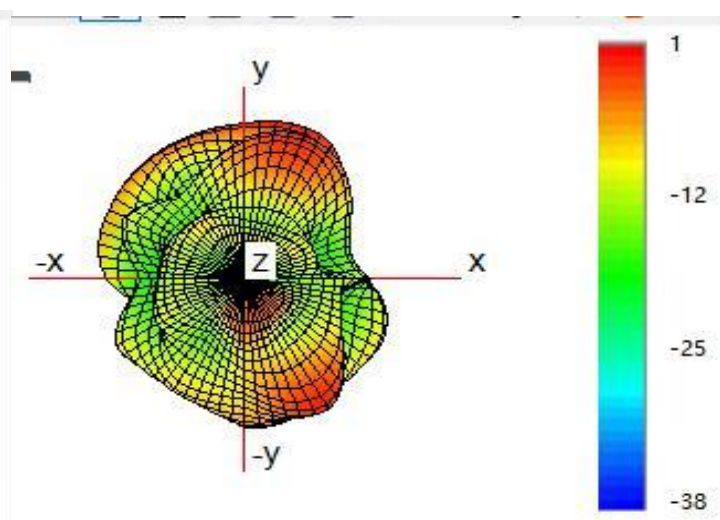
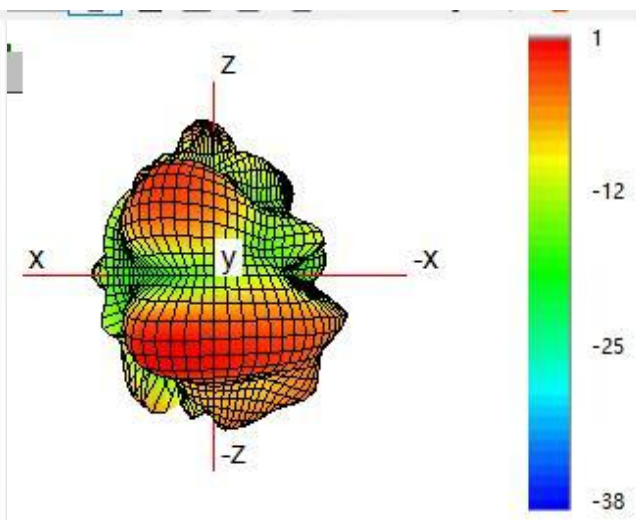
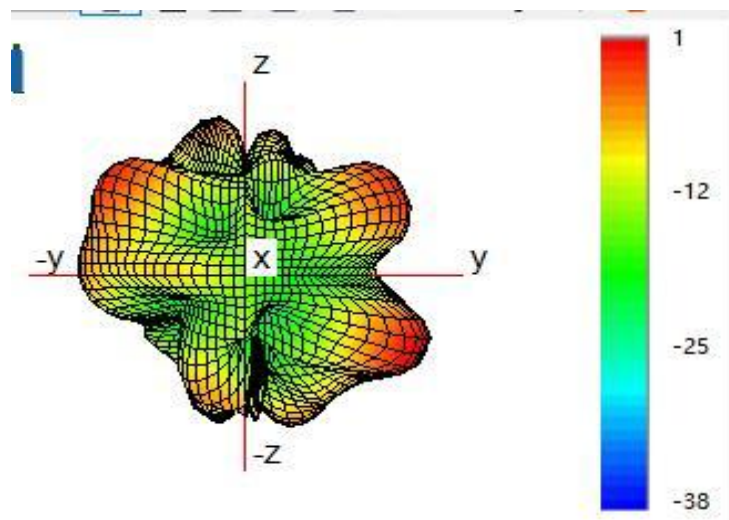
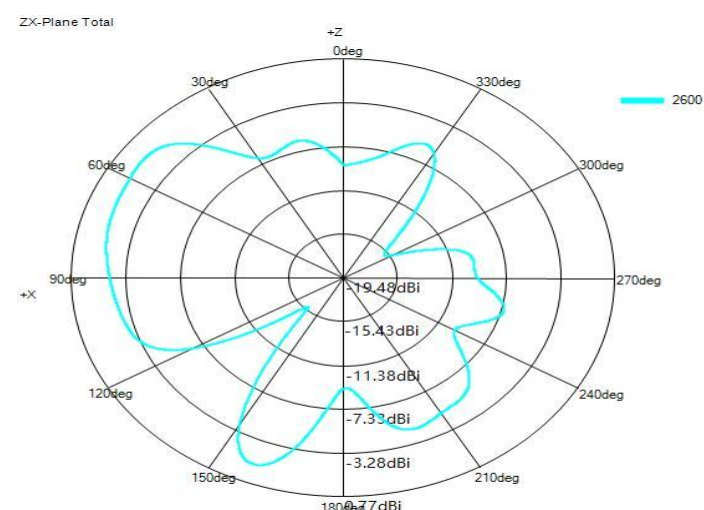
XY-Plane Total



ZY-Plane Total



ZX-Plane Total

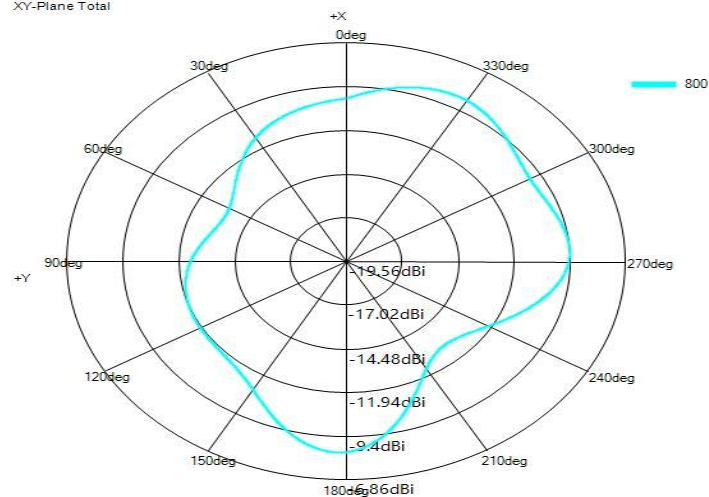




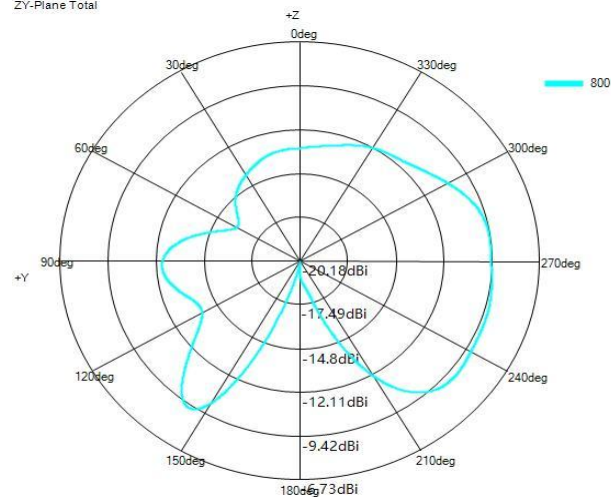
diversity antenna

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)	Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)				
820	-6.21	-10.08	9.81	1700	0.74	-7.02	19.86	2220	2.86	-4.15	38.45
830	-6.08	-10.08	9.82	1740	0.23	-6.70	21.36	2260	2.69	-4.15	38.42
840	-5.36	-9.37	11.56	1760	1.02	-6.50	22.37	2280	2.35	-4.27	37.39
850	-5.22	-9.29	11.78	1780	1.68	-6.13	24.38	2300	1.84	-4.45	35.93
860	-4.62	-8.72	13.42	1800	1.80	-5.93	25.53	2320	1.86	-4.42	36.18
870	-4.64	-8.58	13.86	1820	1.51	-5.95	25.41	2340	2.24	-4.19	38.12
880	-3.94	-7.97	15.95	1840	1.92	-5.71	26.86	2360	2.35	-4.16	38.40
890	-3.78	-7.74	16.81	1860	2.09	-5.60	27.54	2380	2.23	-4.44	35.96
900	-3.34	-7.27	18.76	1880	1.66	-5.68	27.06	2400	2.53	-4.40	36.28
910	-3.26	-7.14	19.34	1900	1.36	-5.51	28.10	2420	2.80	-4.14	38.51
920	-2.82	-6.87	20.58	1920	1.47	-5.23	30.02	2440	2.73	-4.07	39.16
930	-2.73	-6.95	20.20	1940	1.91	-4.91	32.31	2460	3.02	-4.01	39.70
940	-2.25	-6.57	22.01	1960	1.66	-5.11	30.85	2480	2.71	-4.29	37.21
950	-1.92	-6.49	22.44	1980	1.04	-5.66	27.18	2500	2.80	-4.22	37.88
960	-1.47	-6.15	24.26	2000	0.77	-5.77	26.50	2520	3.05	-3.91	40.63
				2020	1.13	-5.45	28.50	2540	3.49	-3.63	43.39
				2040	1.44	-5.26	29.76	2560	3.26	-3.52	44.43
				2060	1.52	-5.51	28.12	2580	2.92	-3.73	42.33
				2080	1.76	-5.66	27.19	2600	2.56	-4.08	39.11
				2100	2.33	-5.33	29.30	2620	2.40	-3.97	40.05
				2140	3.28	-4.48	35.65	2660	2.68	-3.84	41.29
				2160	2.93	-4.67	34.16	2680	2.76	-3.88	40.89
				2180	2.93	-4.50	35.50	2700	2.67	-4.06	39.24

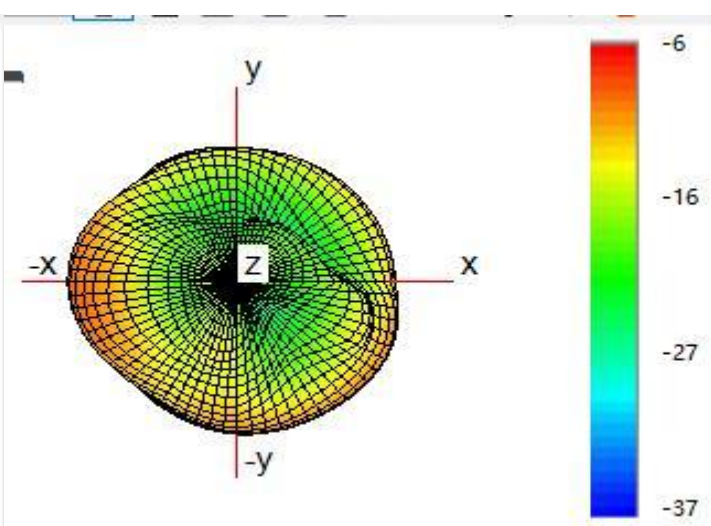
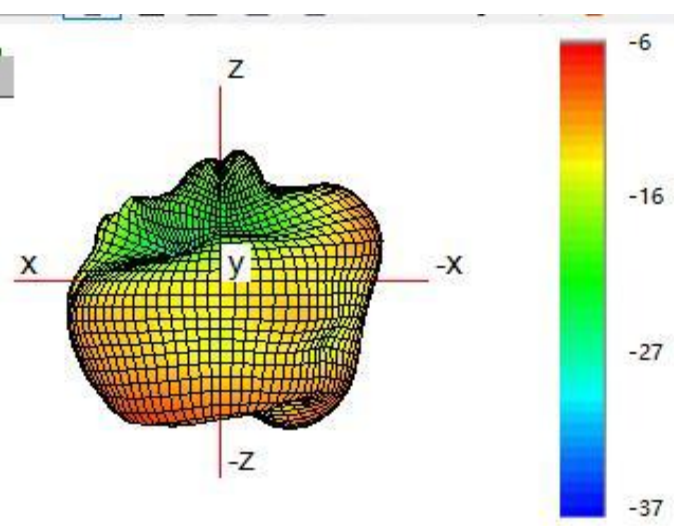
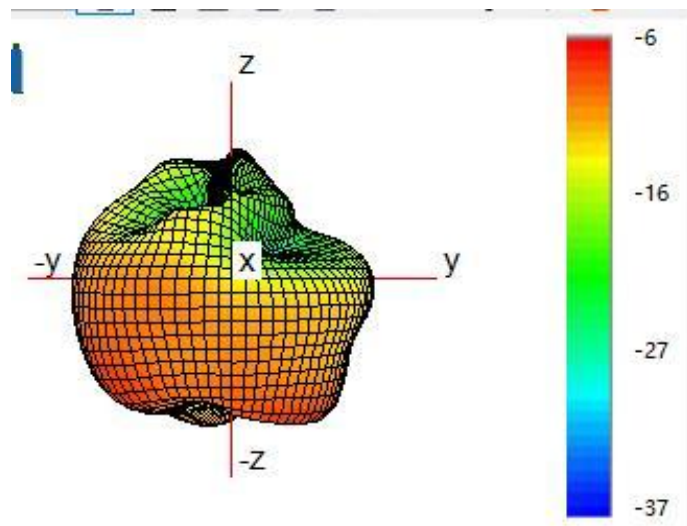
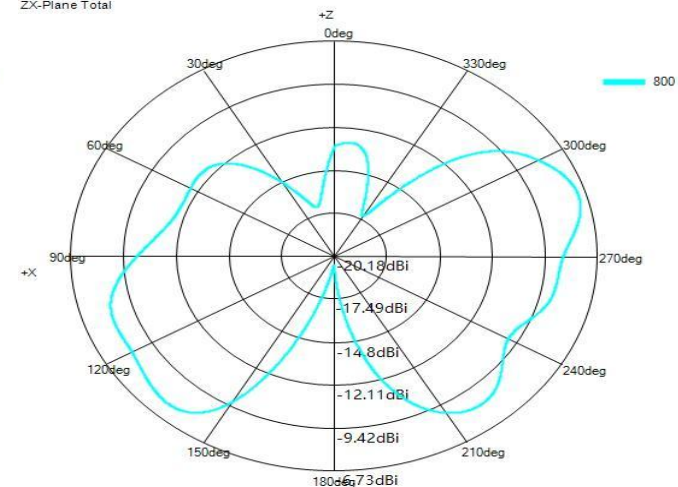
XY-Plane Total



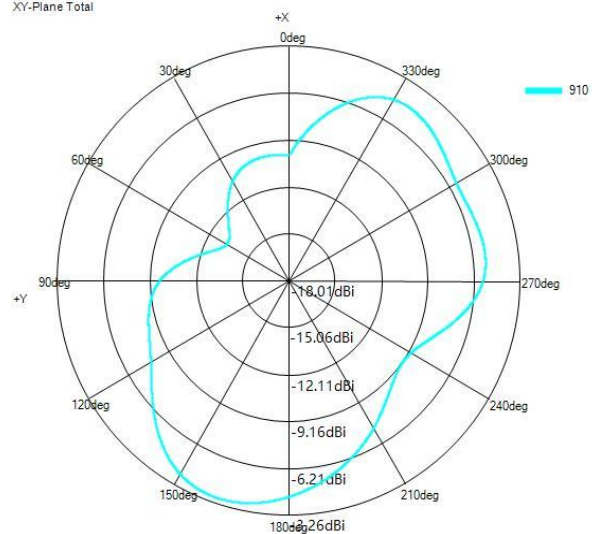
ZY-Plane Total



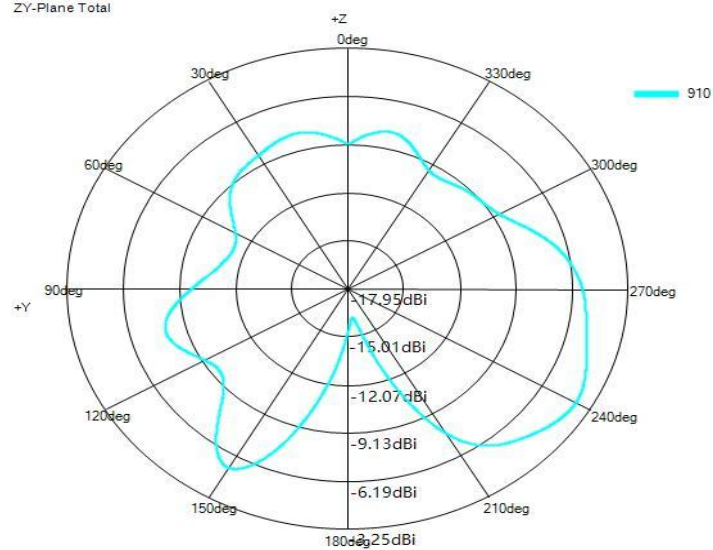
ZX-Plane Total



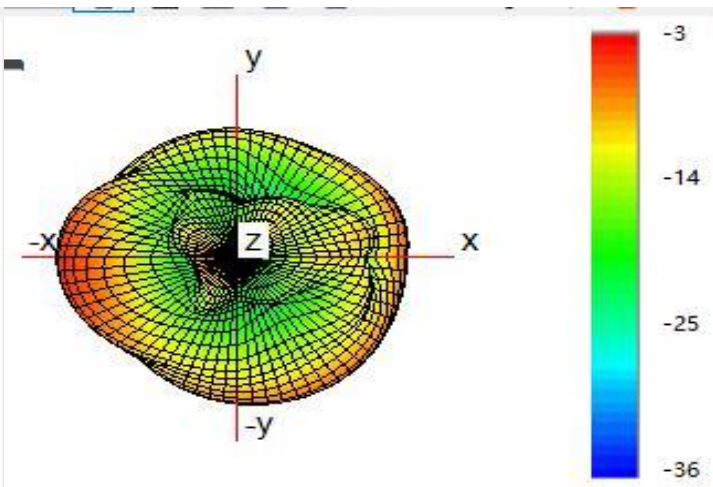
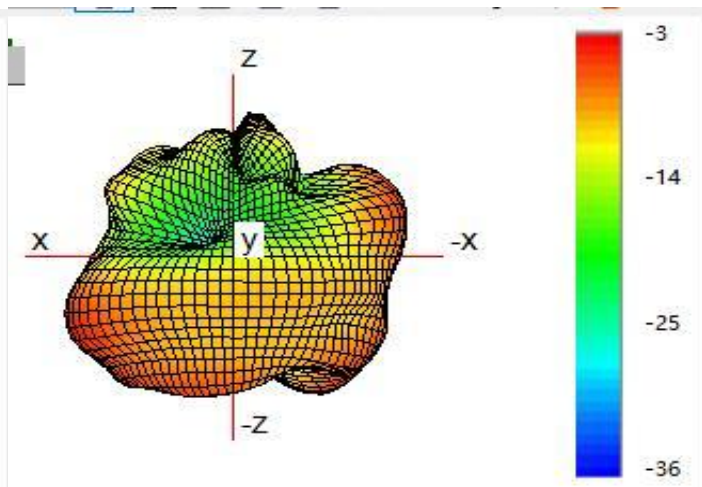
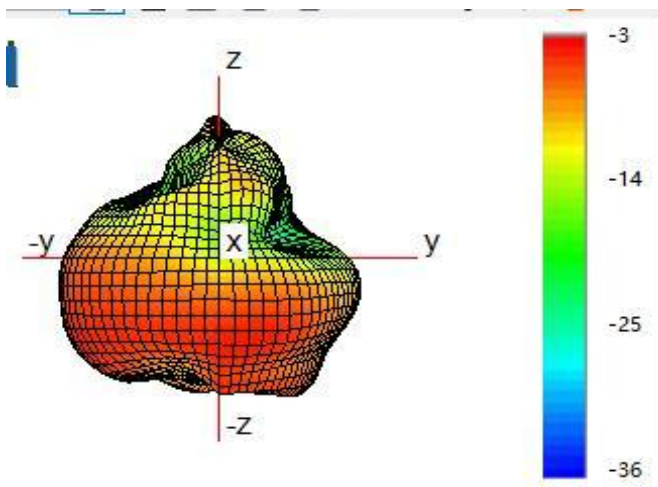
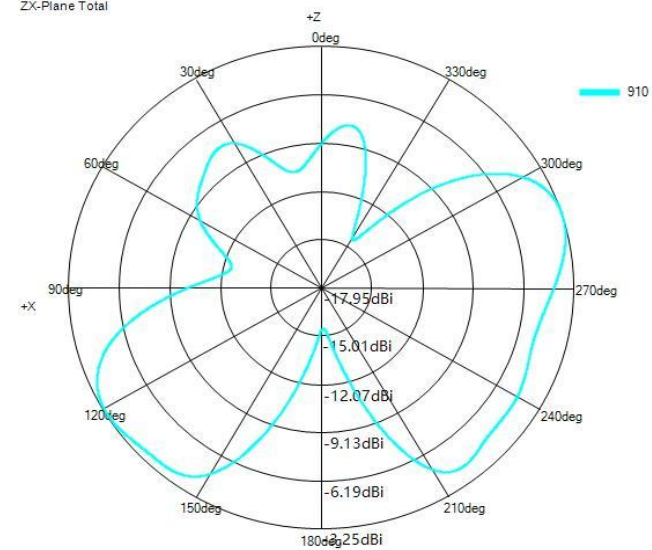
XY-Plane Total



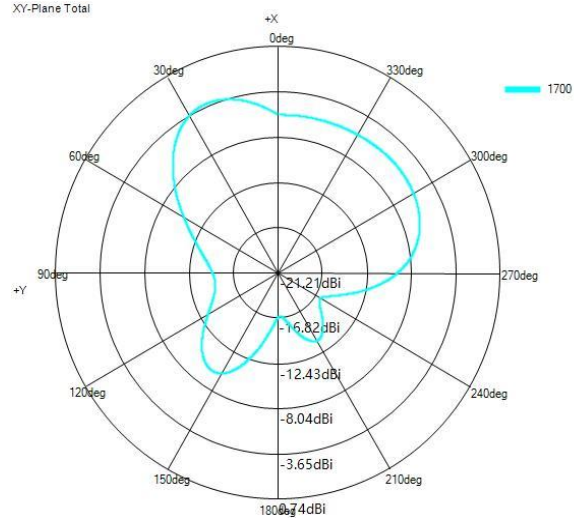
ZY-Plane Total



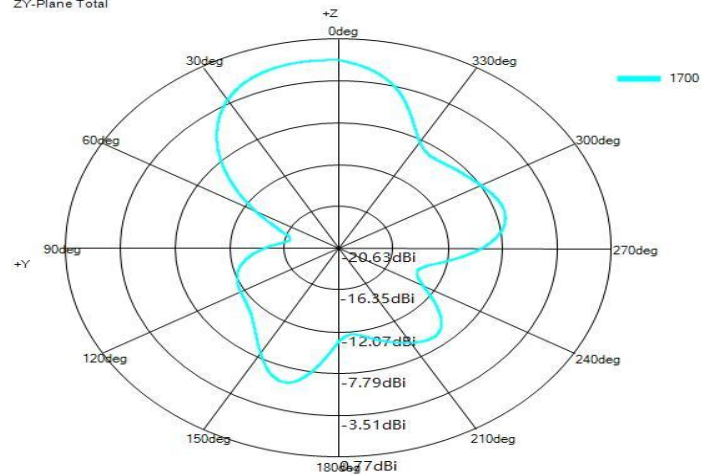
ZX-Plane Total



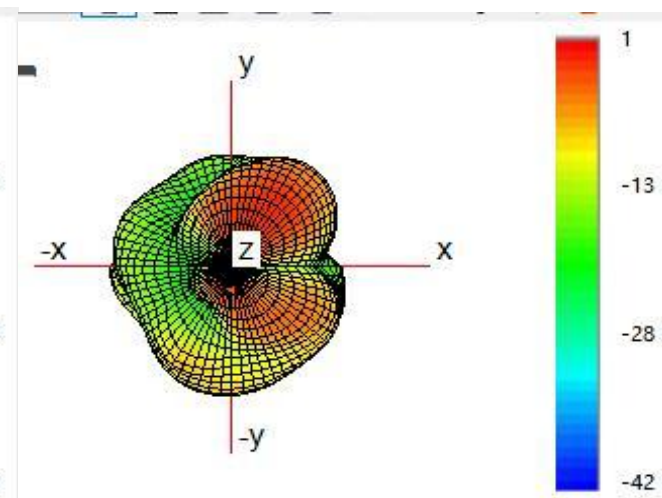
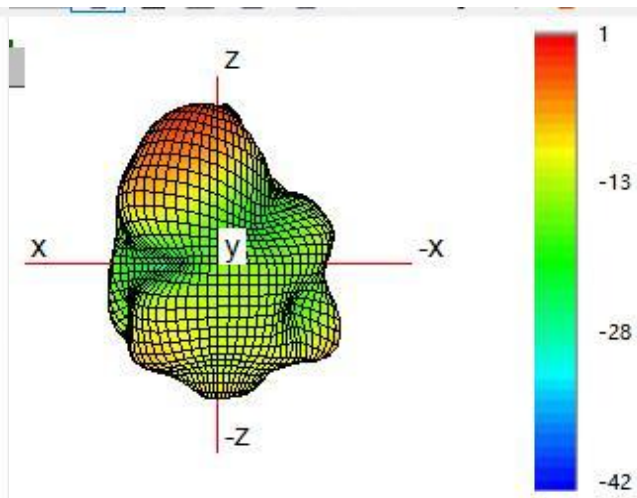
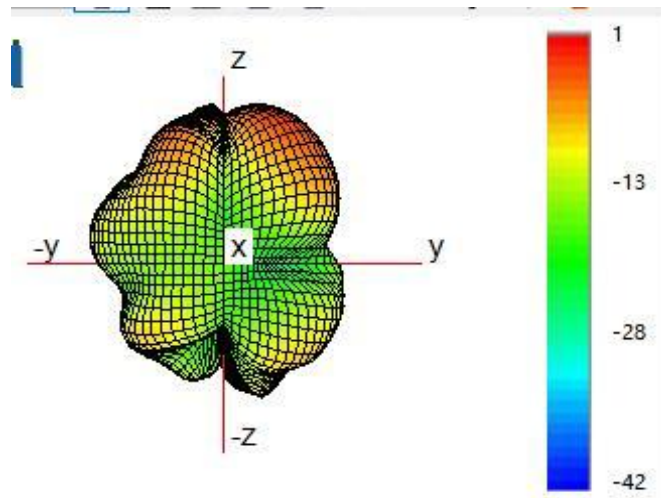
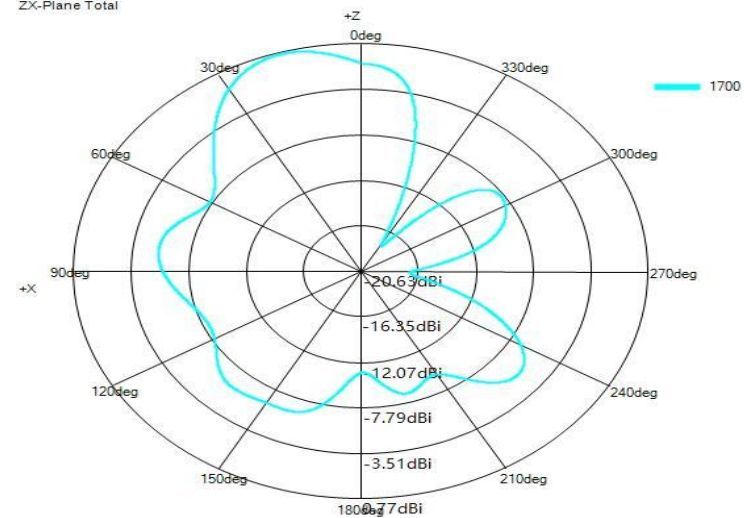
XY-Plane Total



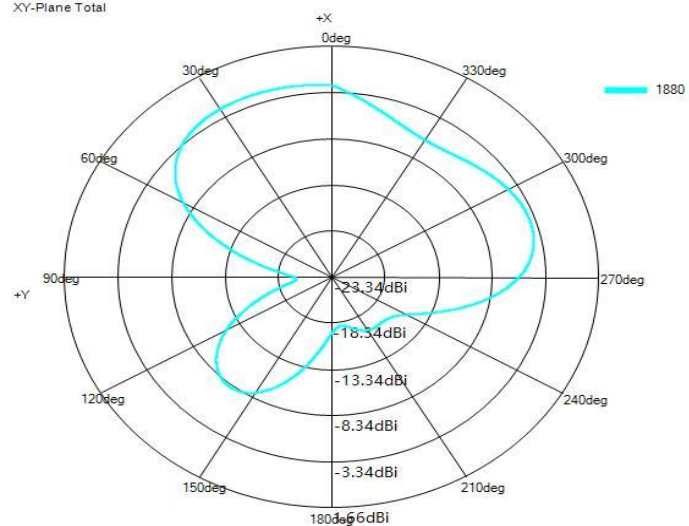
ZY-Plane Total



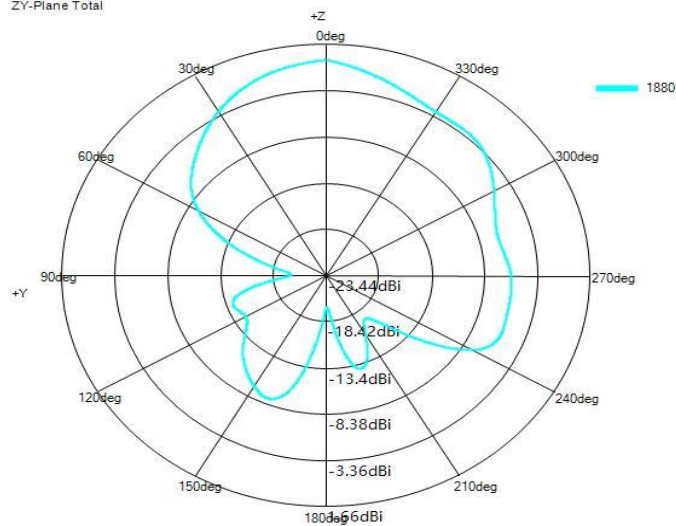
ZX-Plane Total



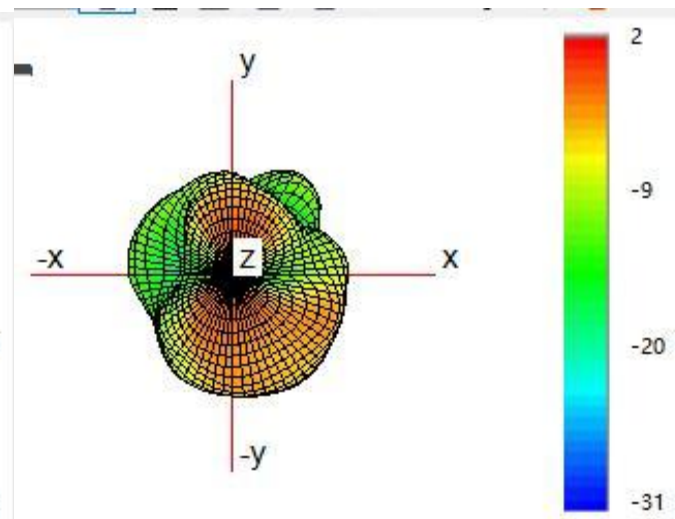
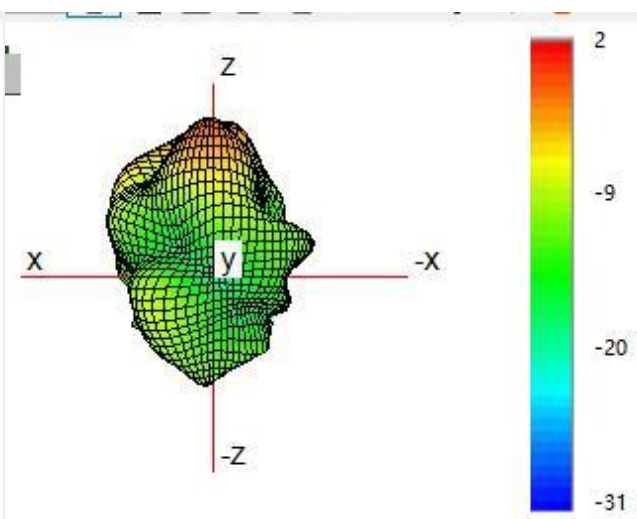
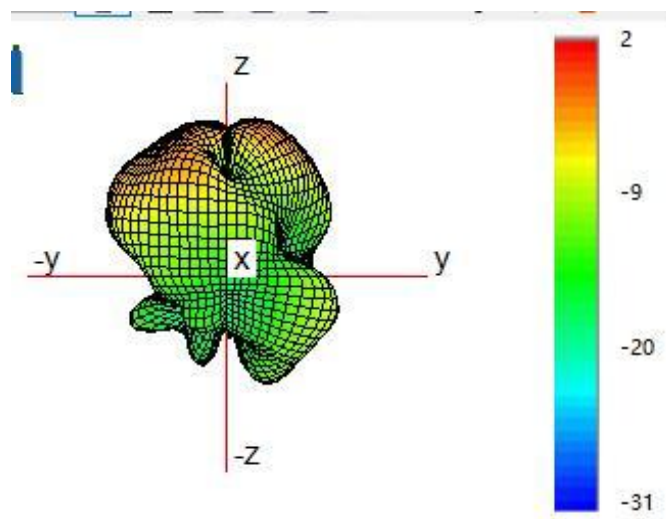
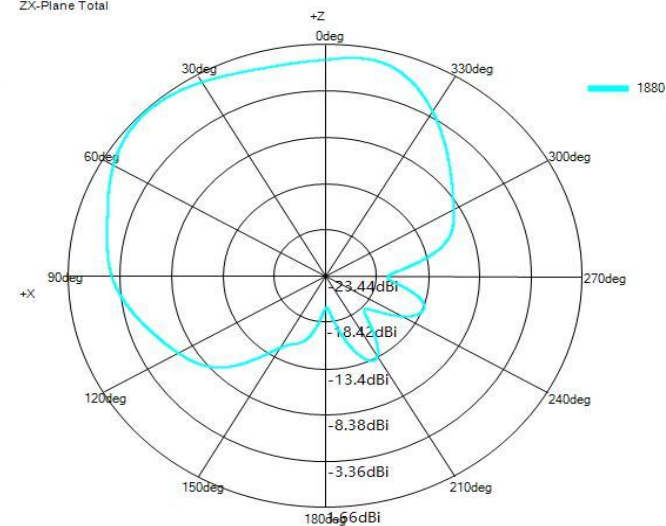
XY-Plane Total



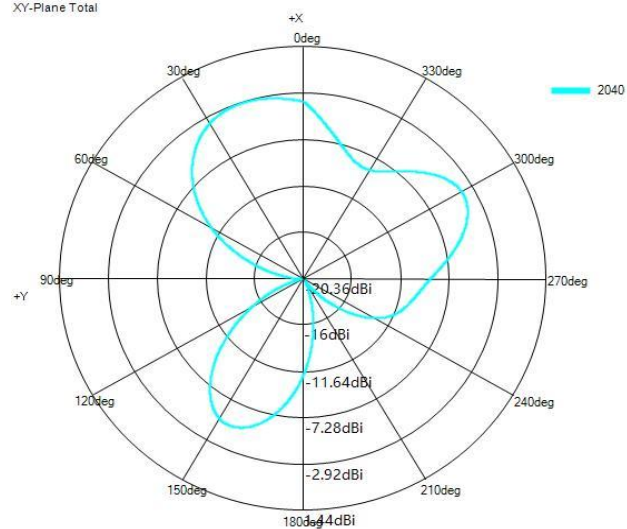
ZY-Plane Total



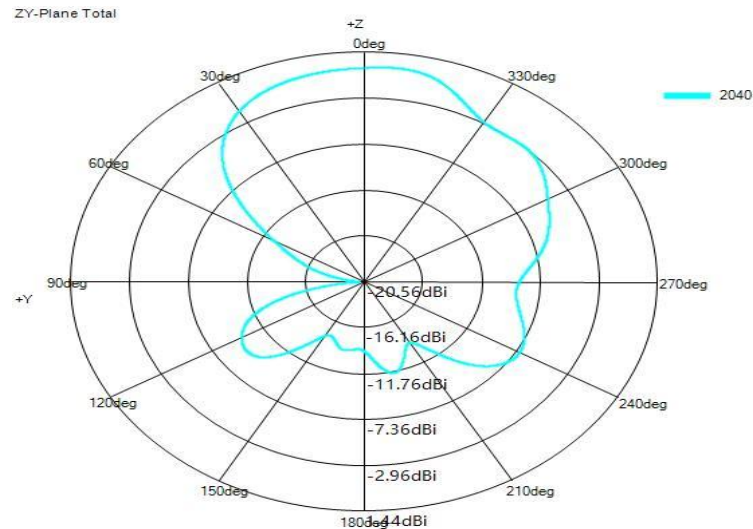
ZX-Plane Total



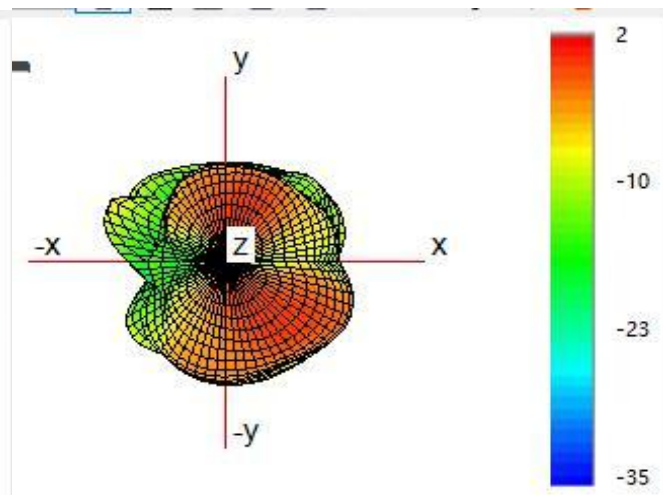
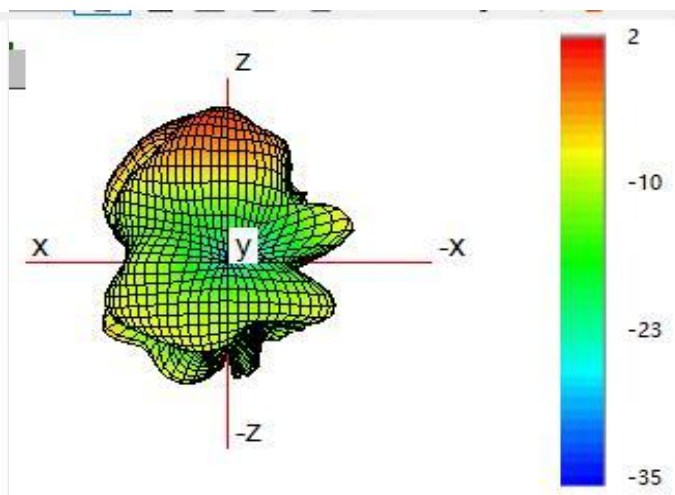
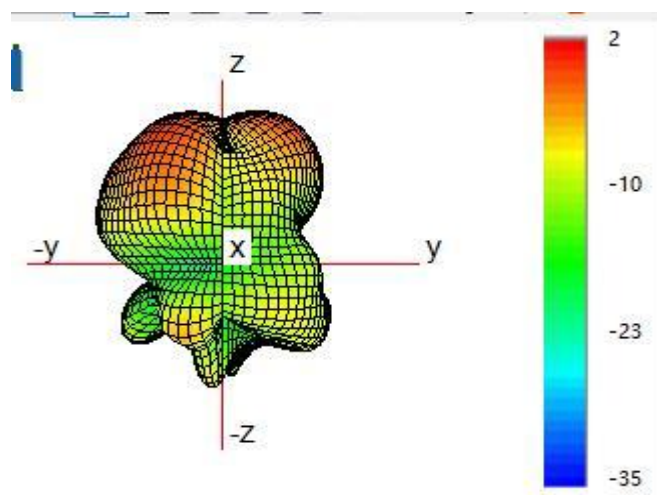
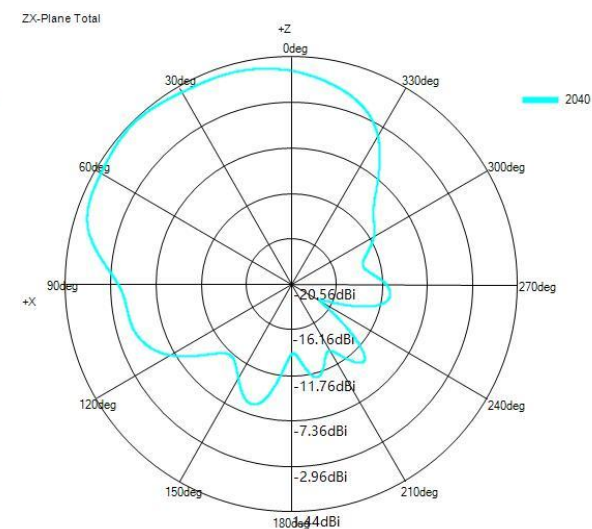
XY-Plane Total



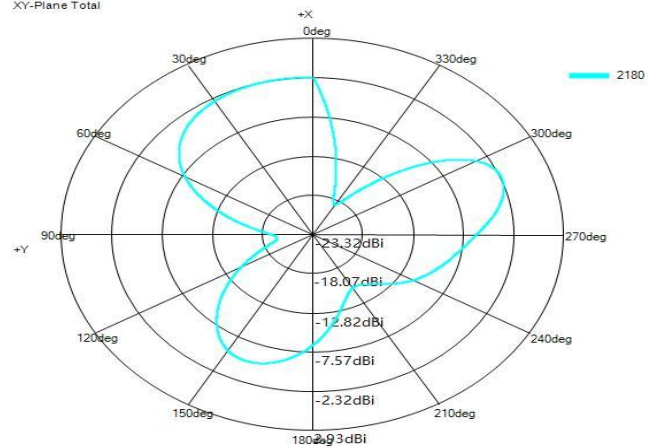
ZY-Plane Total



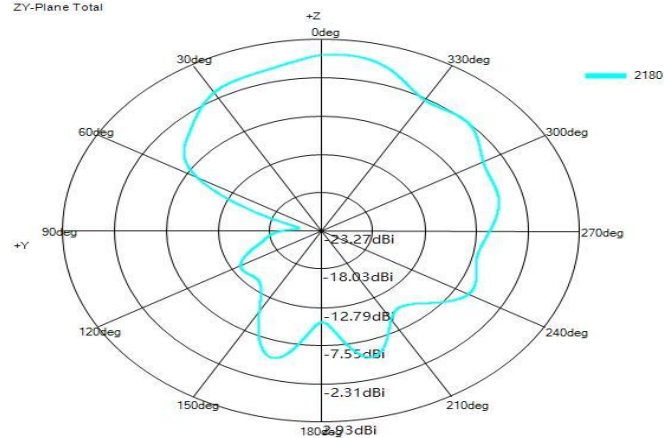
ZX-Plane Total



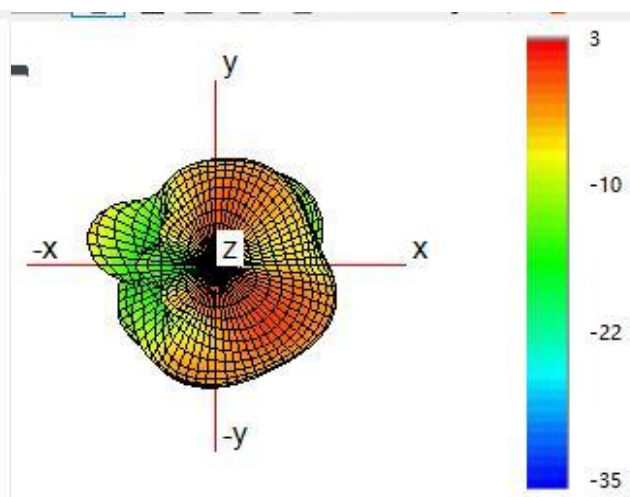
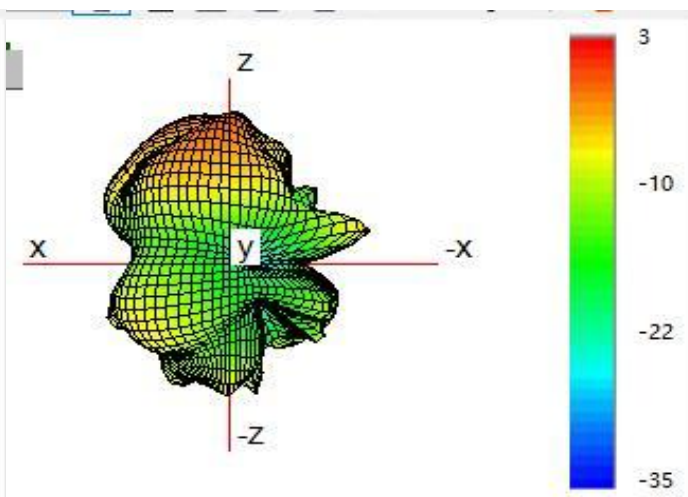
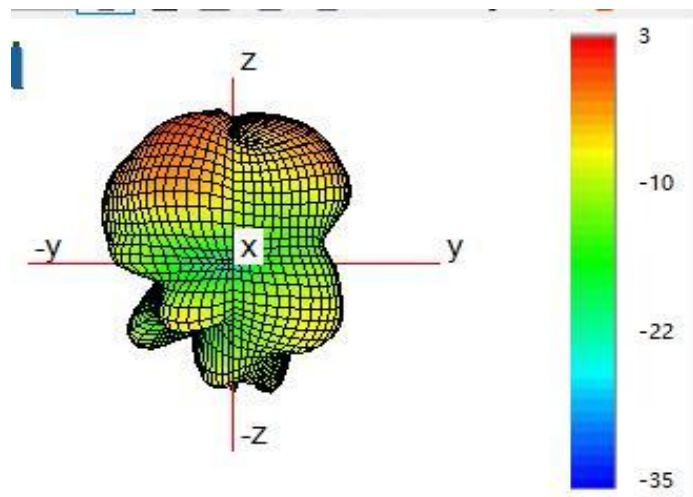
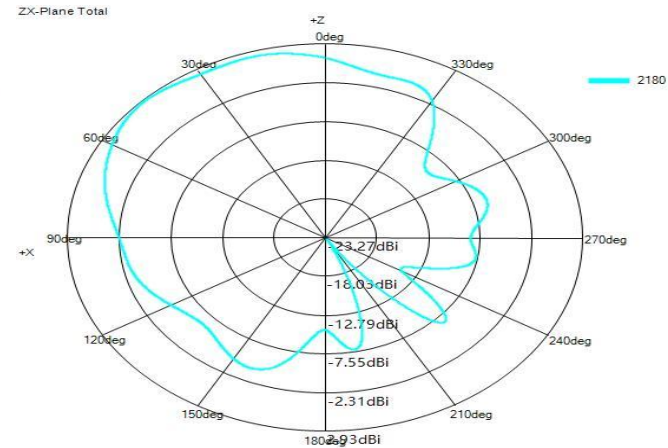
XY-Plane Total



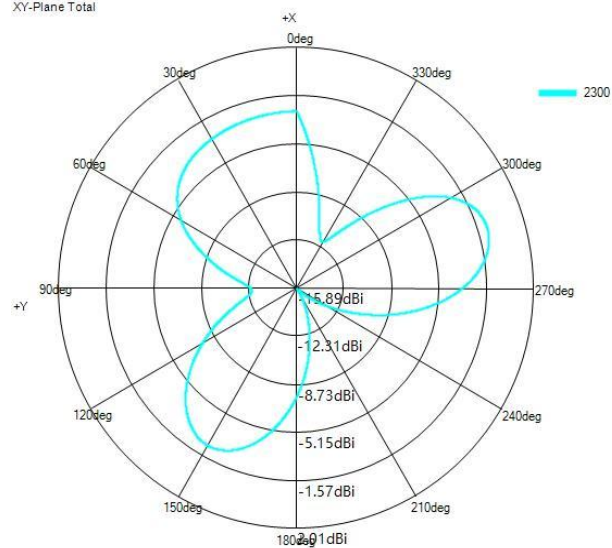
ZY-Plane Total



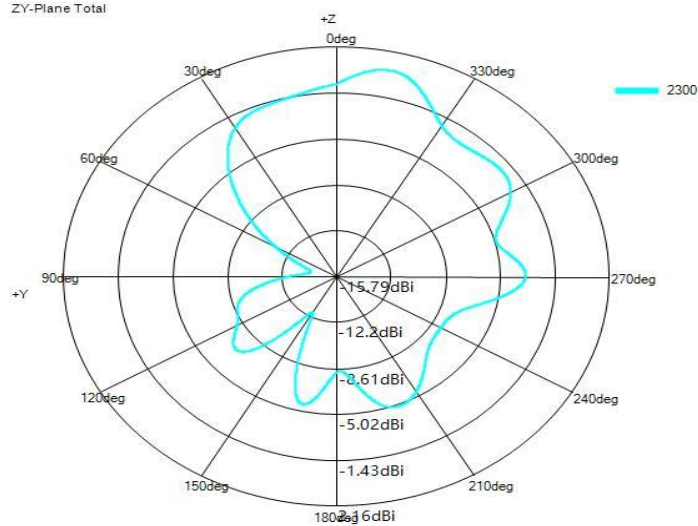
ZX-Plane Total



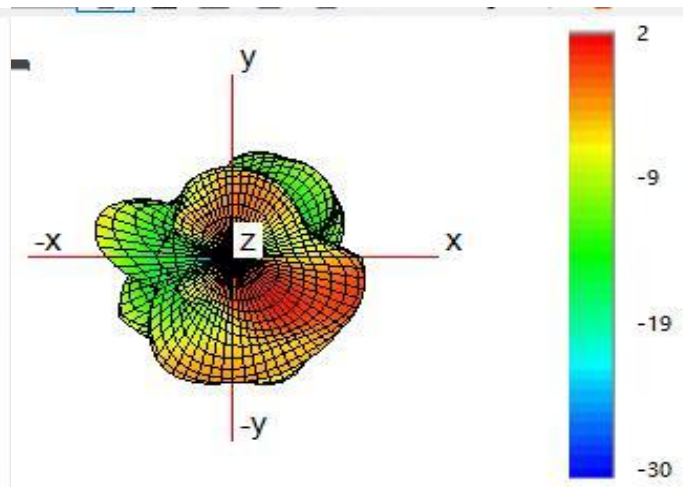
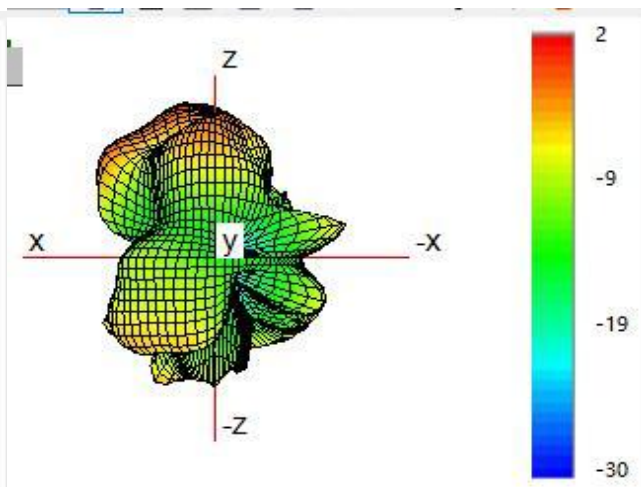
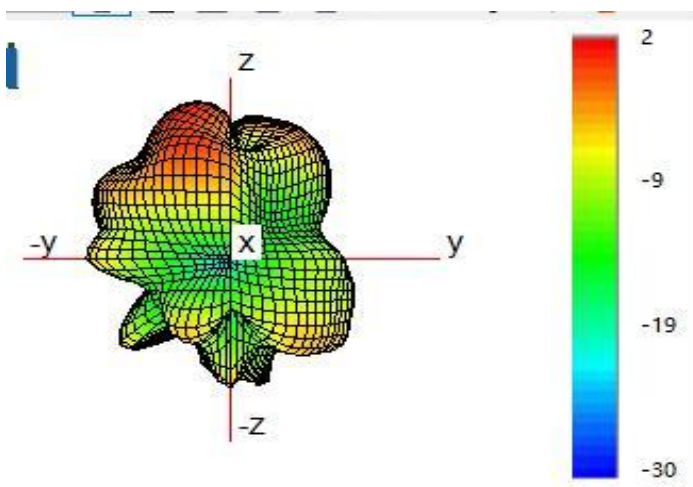
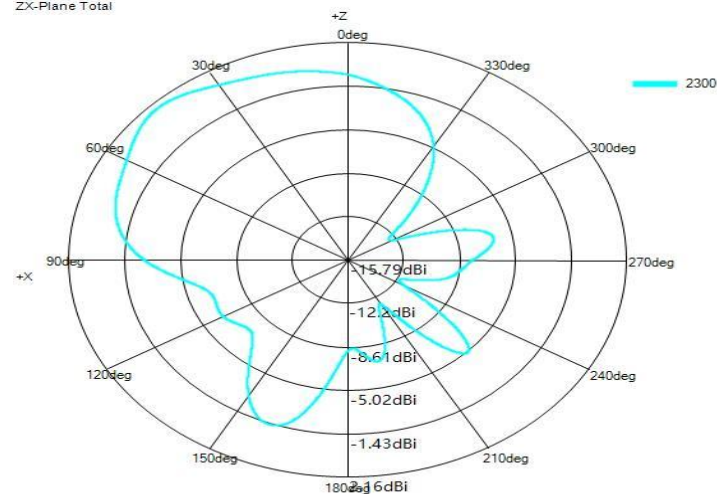
XY-Plane Total



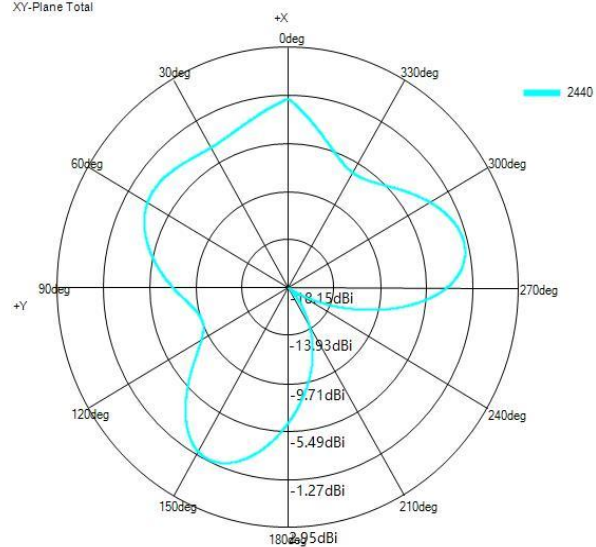
ZY-Plane Total



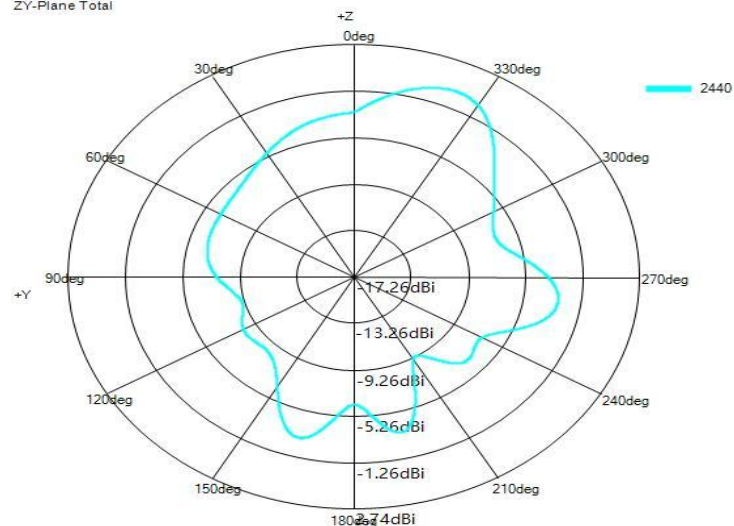
ZX-Plane Total



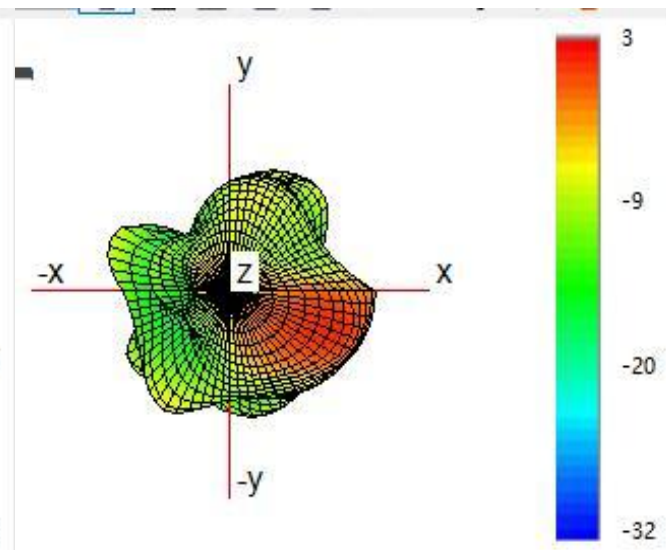
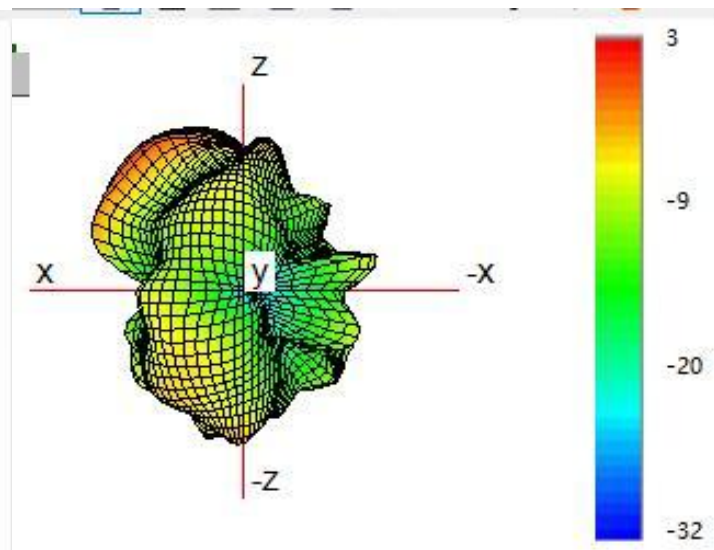
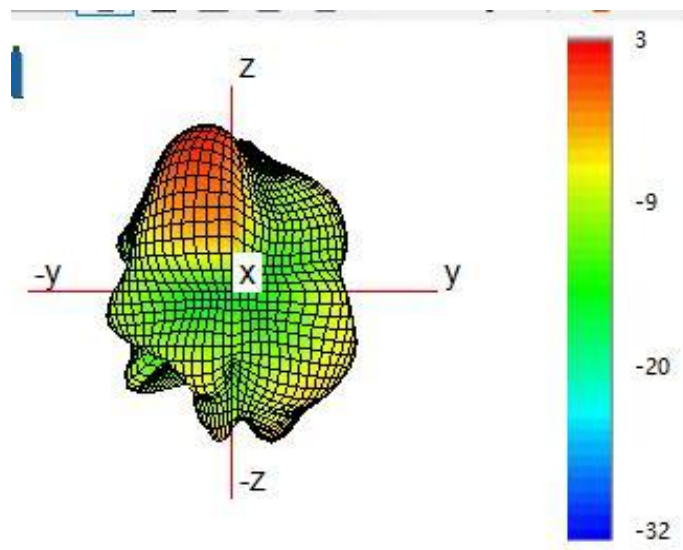
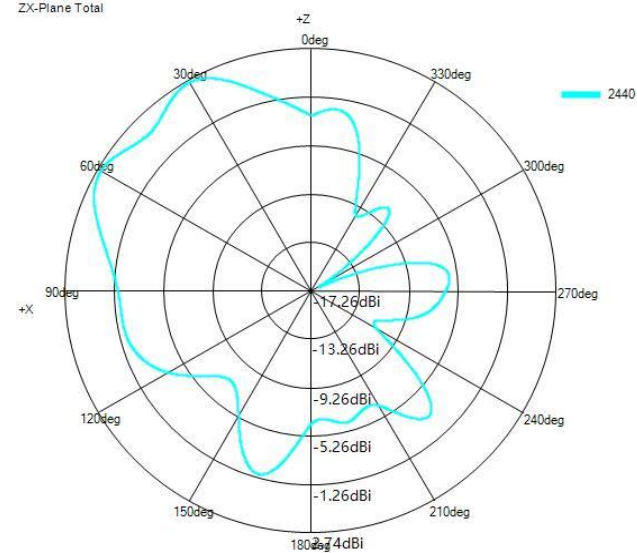
XY-Plane Total



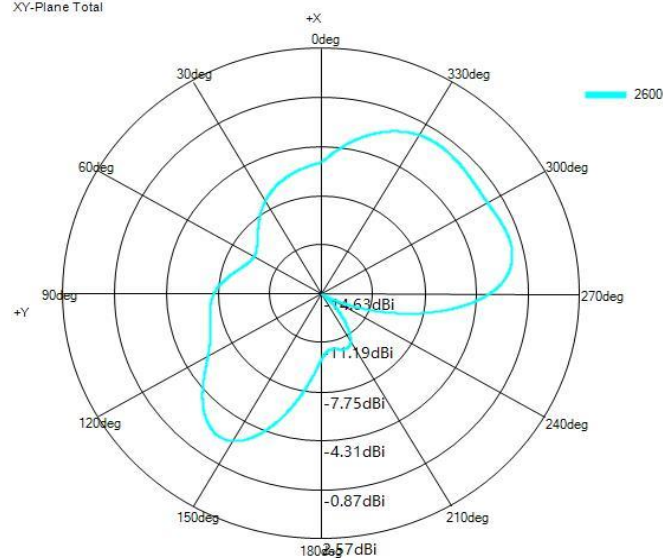
ZY-Plane Total



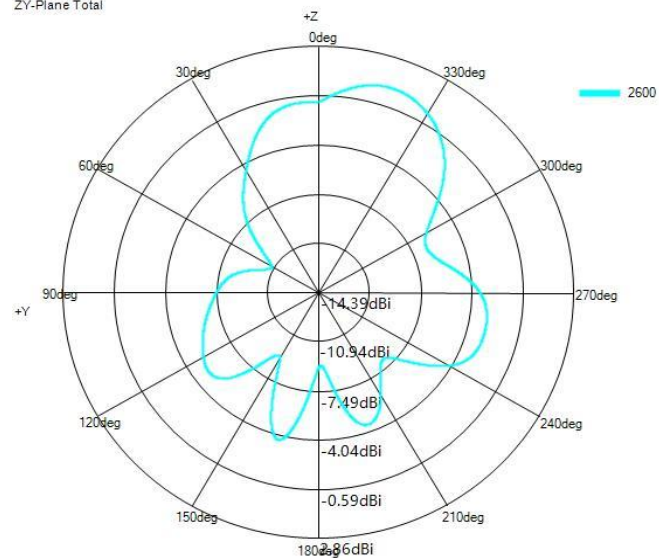
ZX-Plane Total



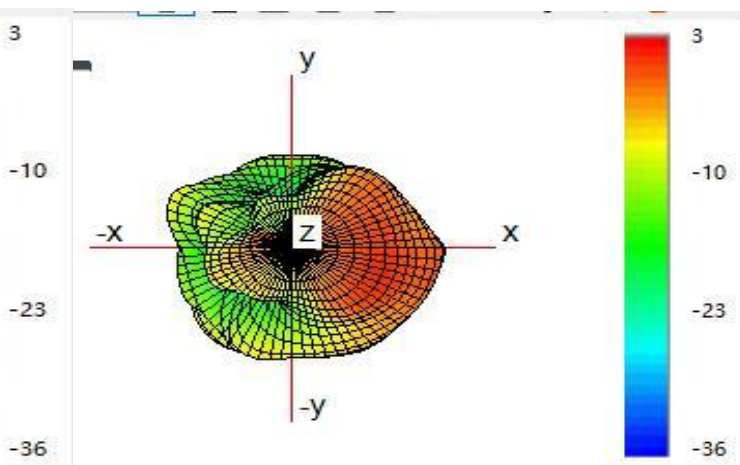
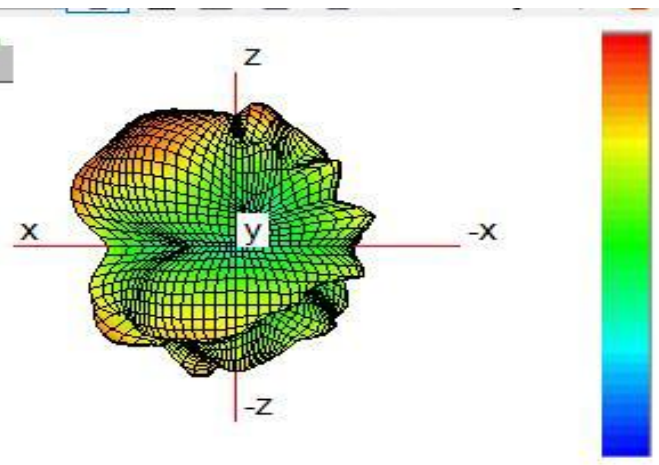
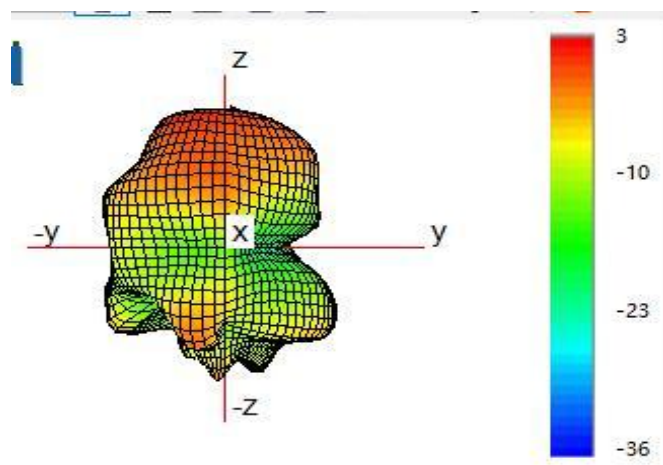
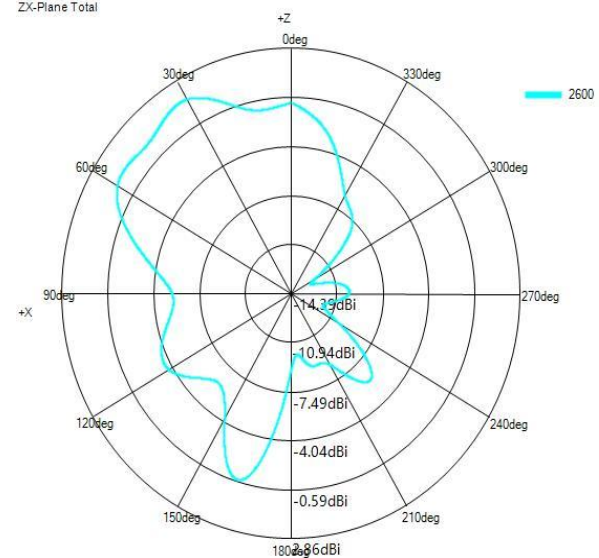
XY-Plane Total



ZY-Plane Total



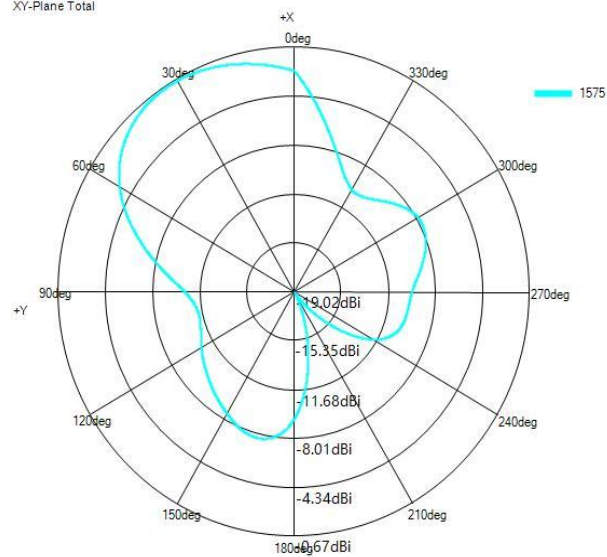
ZX-Plane Total



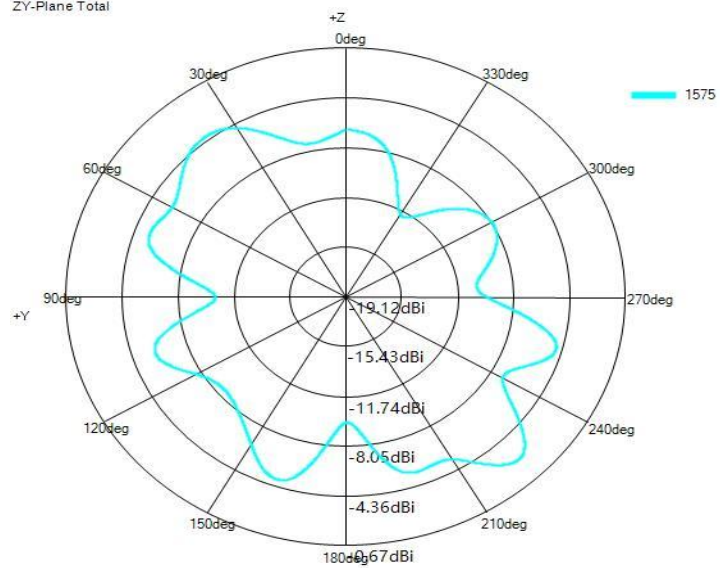
GPS/2.4GWIFI/BT:

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1550	-0.61	-5.11	30.84
1555	-0.62	-5.20	30.21
1560	-0.72	-5.31	29.44
1565	-0.69	-5.40	28.87
1570	-0.63	-5.46	28.44
1575	-0.68	-5.58	27.69
1580	-0.83	-5.77	26.47
1585	-0.93	-5.92	25.57
1590	-0.91	-5.95	25.41
1595	-0.99	-5.97	25.30
1600	-1.13	-6.07	24.71
2400	0.99	-3.84	41.30
2410	0.89	-3.79	41.79
2420	0.81	-3.60	43.61
2430	0.99	-3.72	42.47
2440	1.12	-3.80	41.72
2450	1.29	-3.86	41.08
2460	1.27	-4.02	39.60
2470	1.15	-4.22	37.81
2480	0.89	-4.62	34.49
2490	0.76	-4.85	32.72
2500	0.79	-4.82	32.93

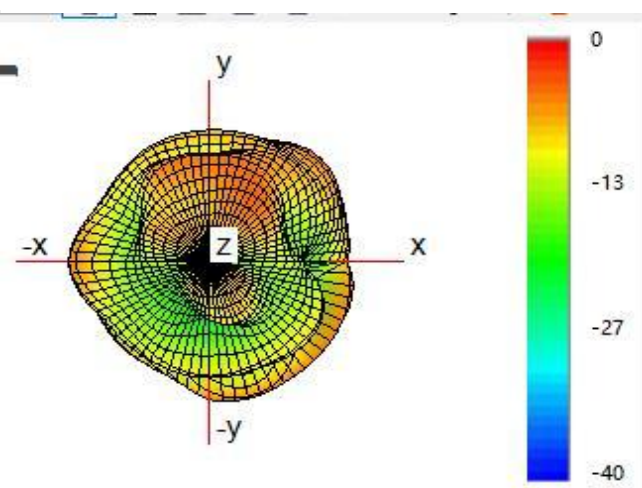
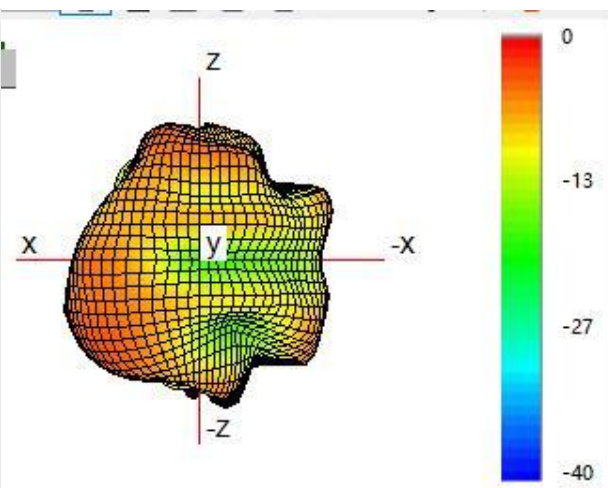
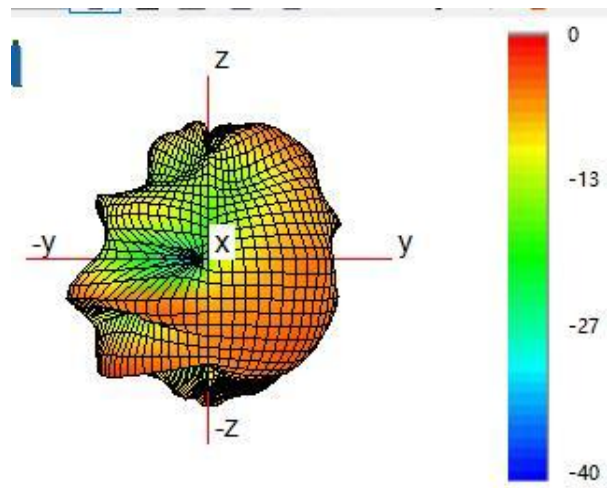
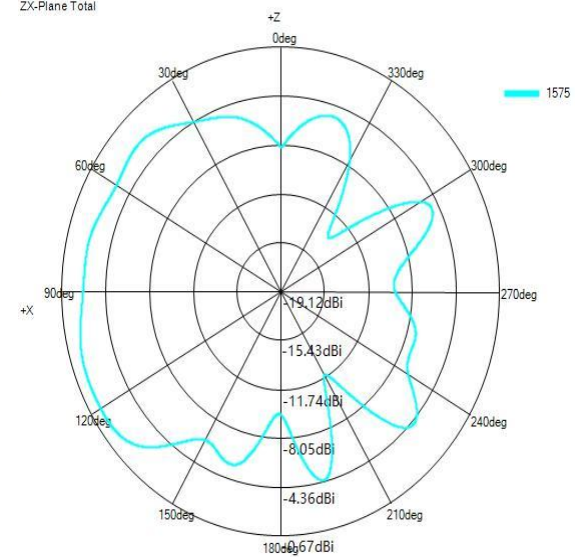
XY-Plane Total



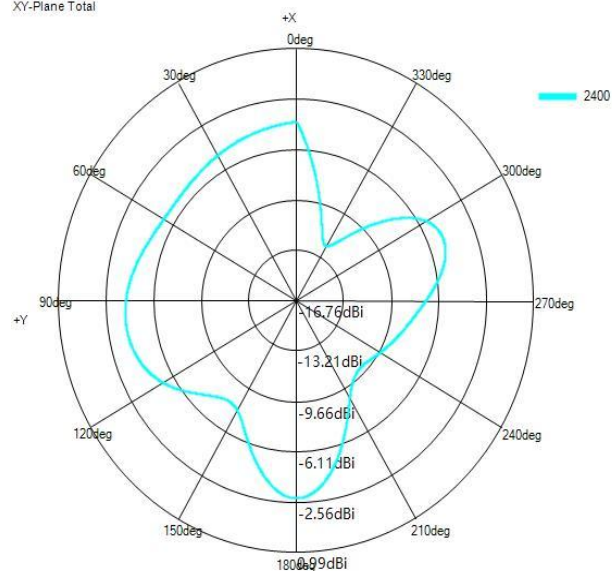
ZY-Plane Total



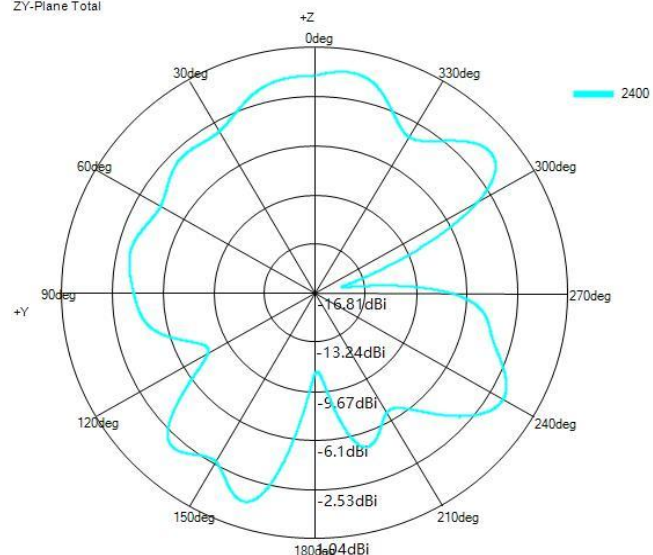
ZX-Plane Total



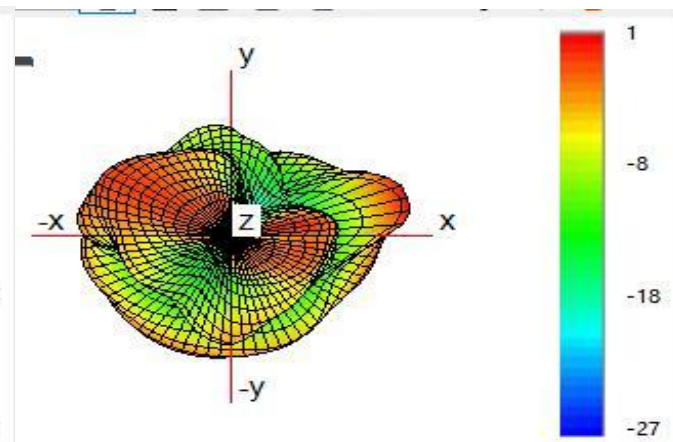
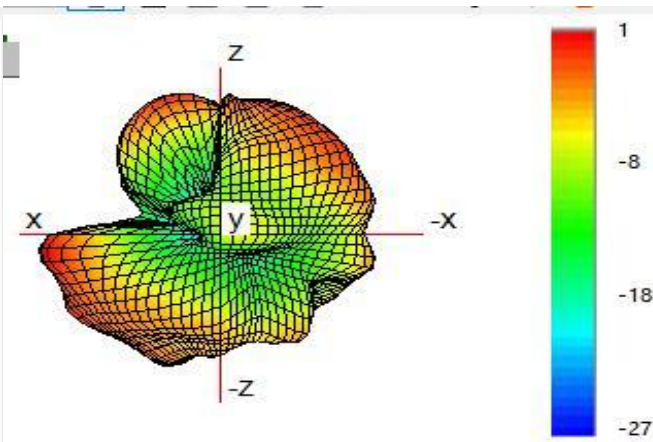
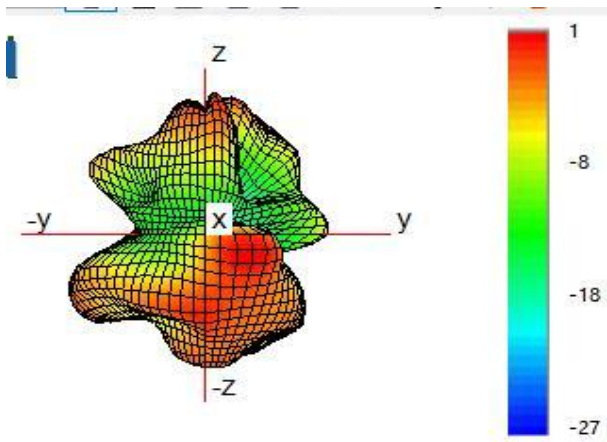
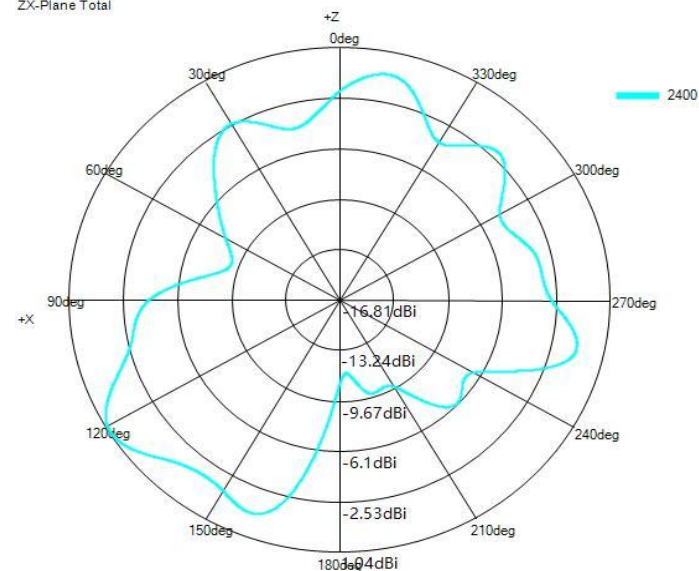
XY-Plane Total



ZY-Plane Total



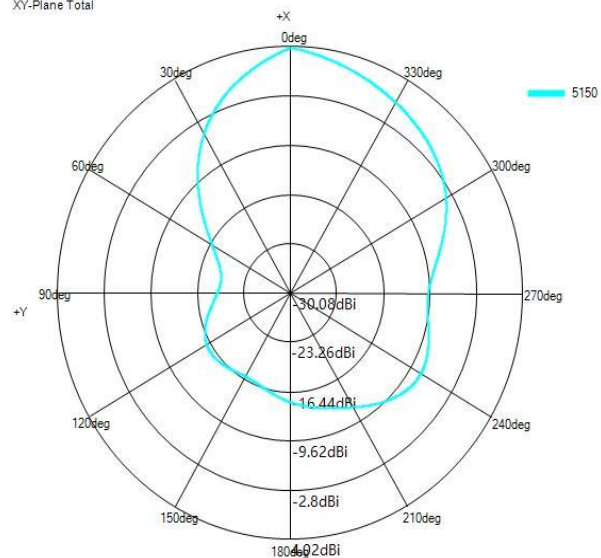
ZX-Plane Total



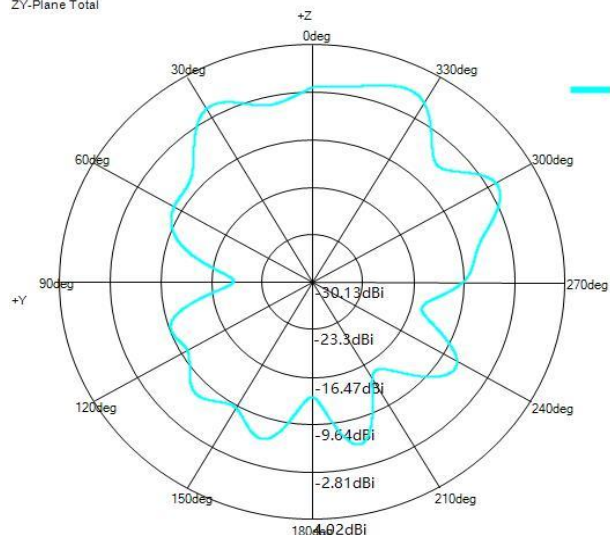
5GWIFI:

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5150	4.02	-4.25	37.57
5200	3.67	-4.30	37.14
5250	3.71	-4.14	38.52
5300	3.29	-4.50	35.47
5350	3.58	-4.12	38.74
5400	3.43	-3.90	40.75
5450	3.21	-3.92	40.58
5500	2.69	-4.39	36.36
5550	3.09	-3.94	40.39
5600	2.99	-3.75	42.13
5650	2.96	-3.72	42.47
5700	2.74	-3.75	42.16
5750	3.10	-3.72	42.49
5800	3.37	-3.67	42.95
5850	3.53	-3.73	42.33

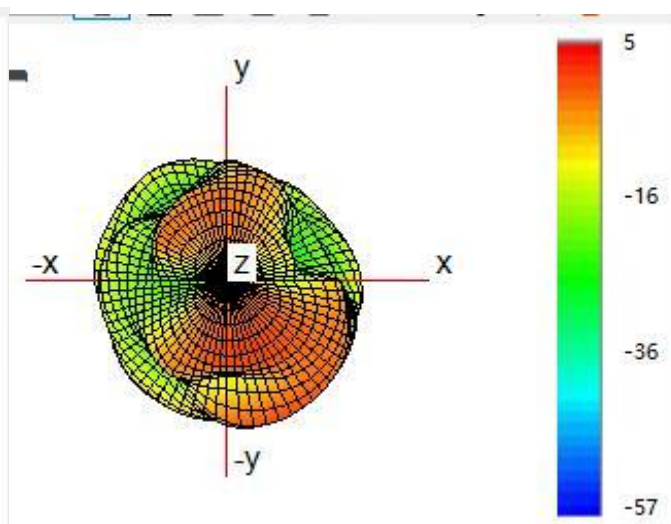
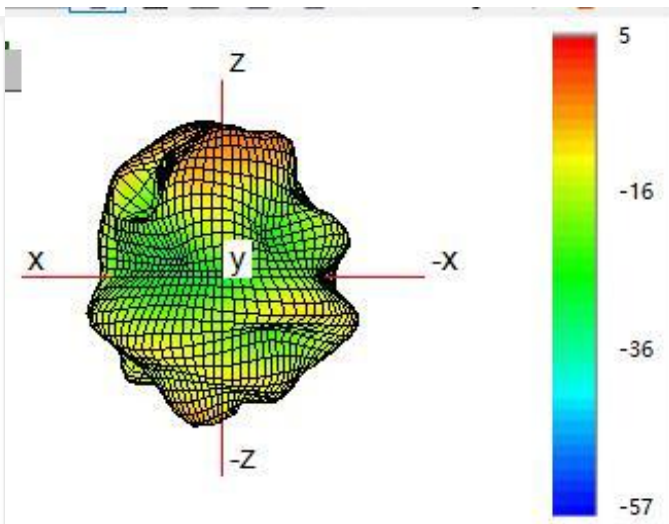
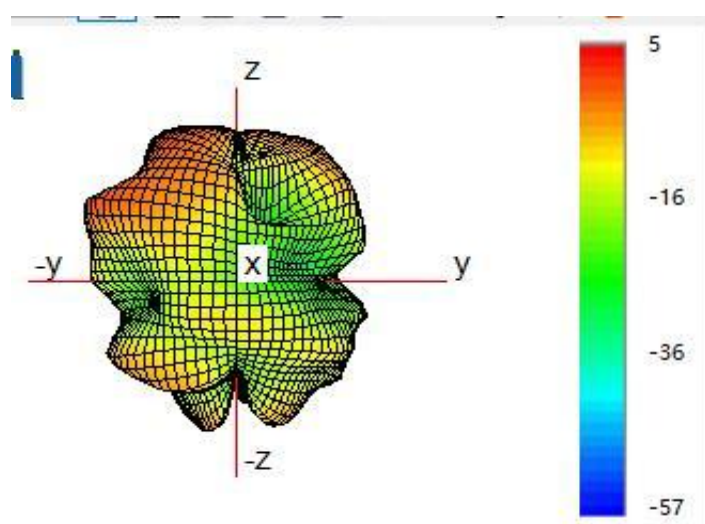
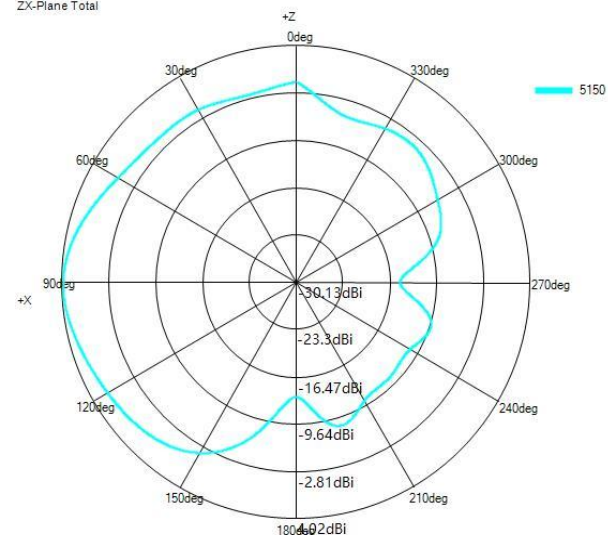
XY-Plane Total



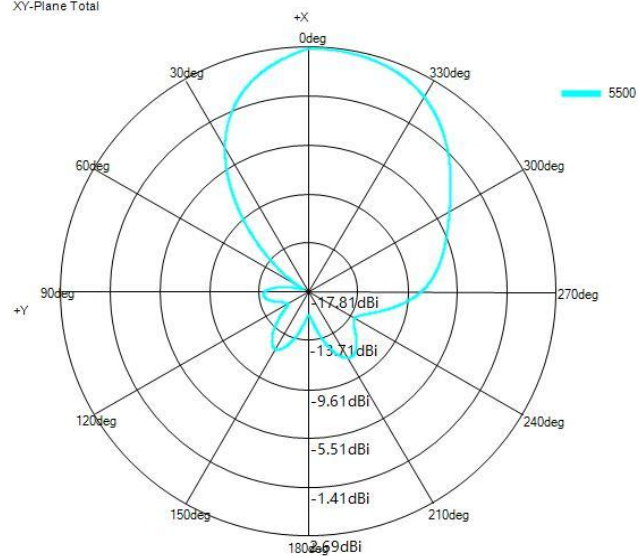
ZY-Plane Total



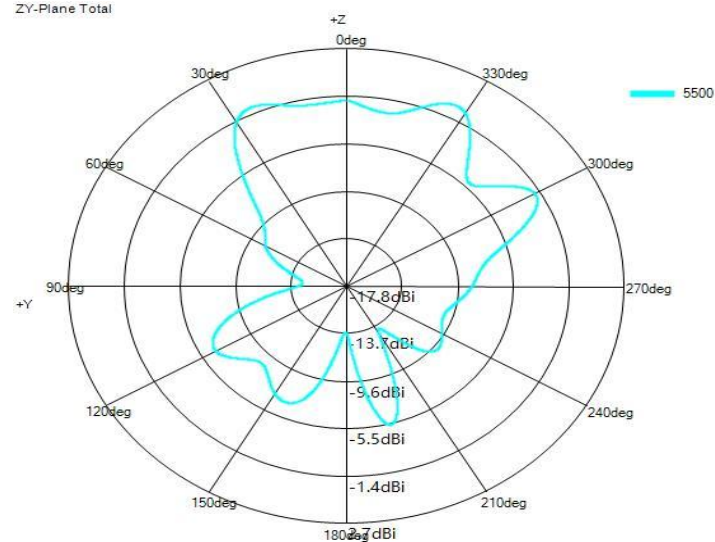
ZX-Plane Total



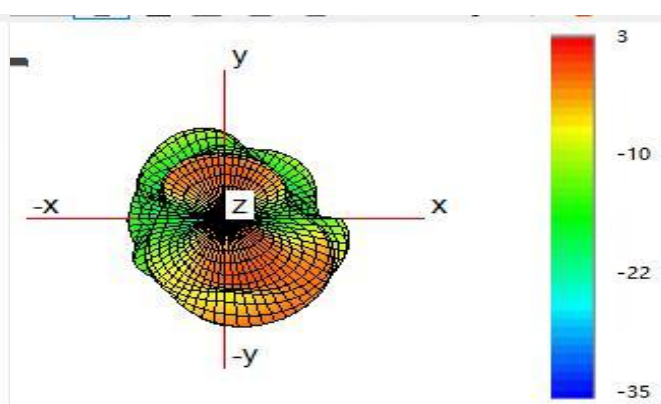
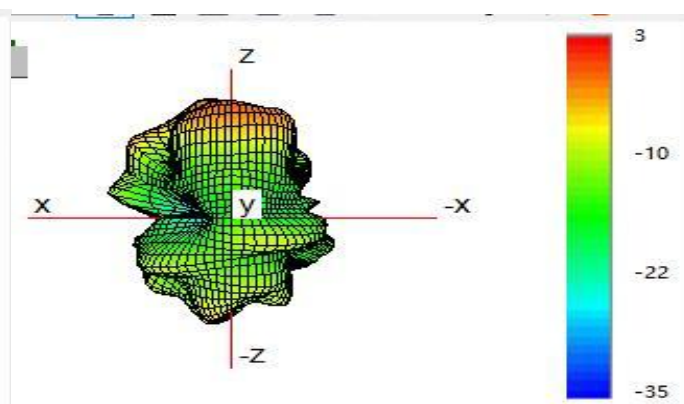
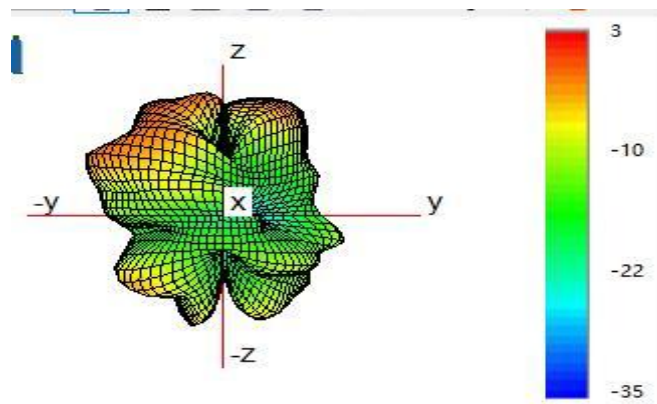
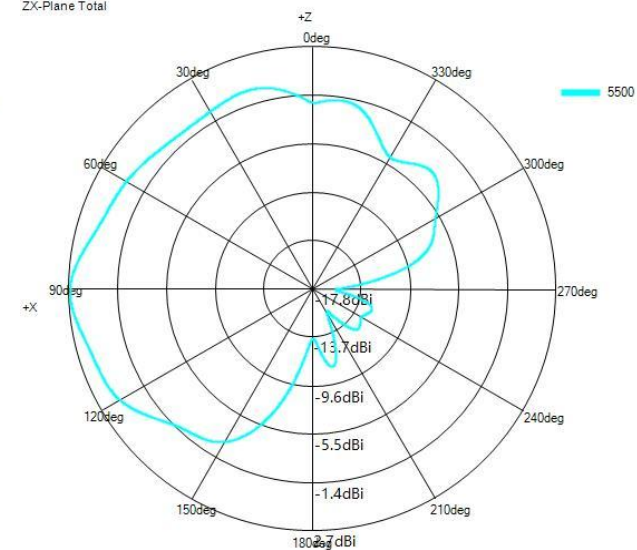
XY-Plane Total



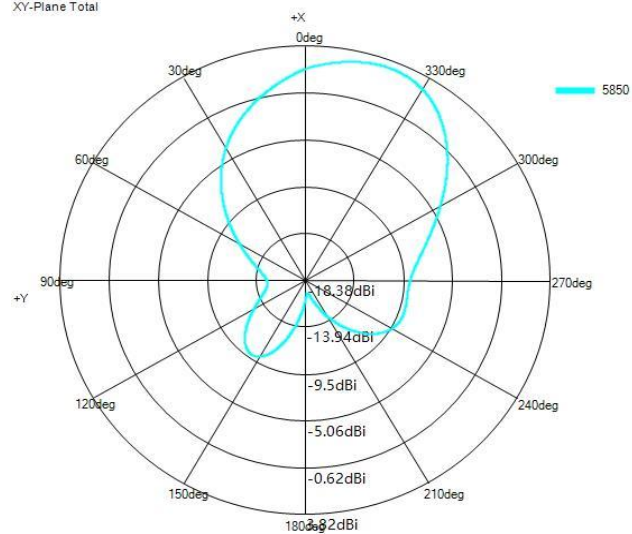
ZY-Plane Total



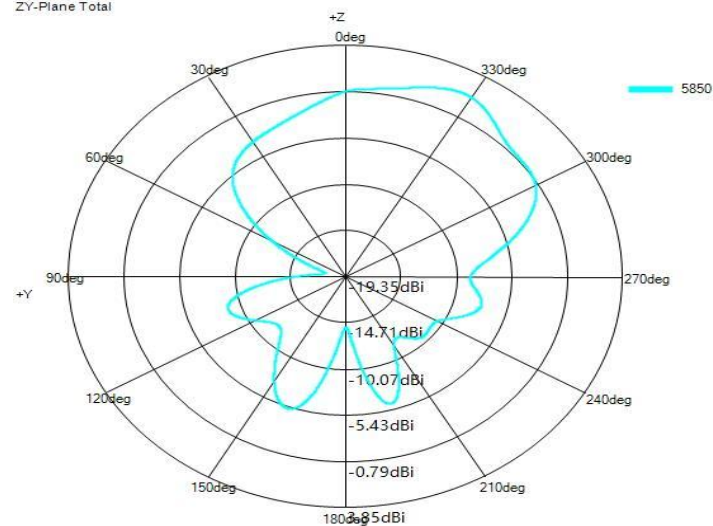
ZX-Plane Total



XY-Plane Total



ZY-Plane Total



ZX-Plane Total

