

Antenna Specification Document

Manufacturer: Shenzhen Deshiqin Technology Co., Ltd

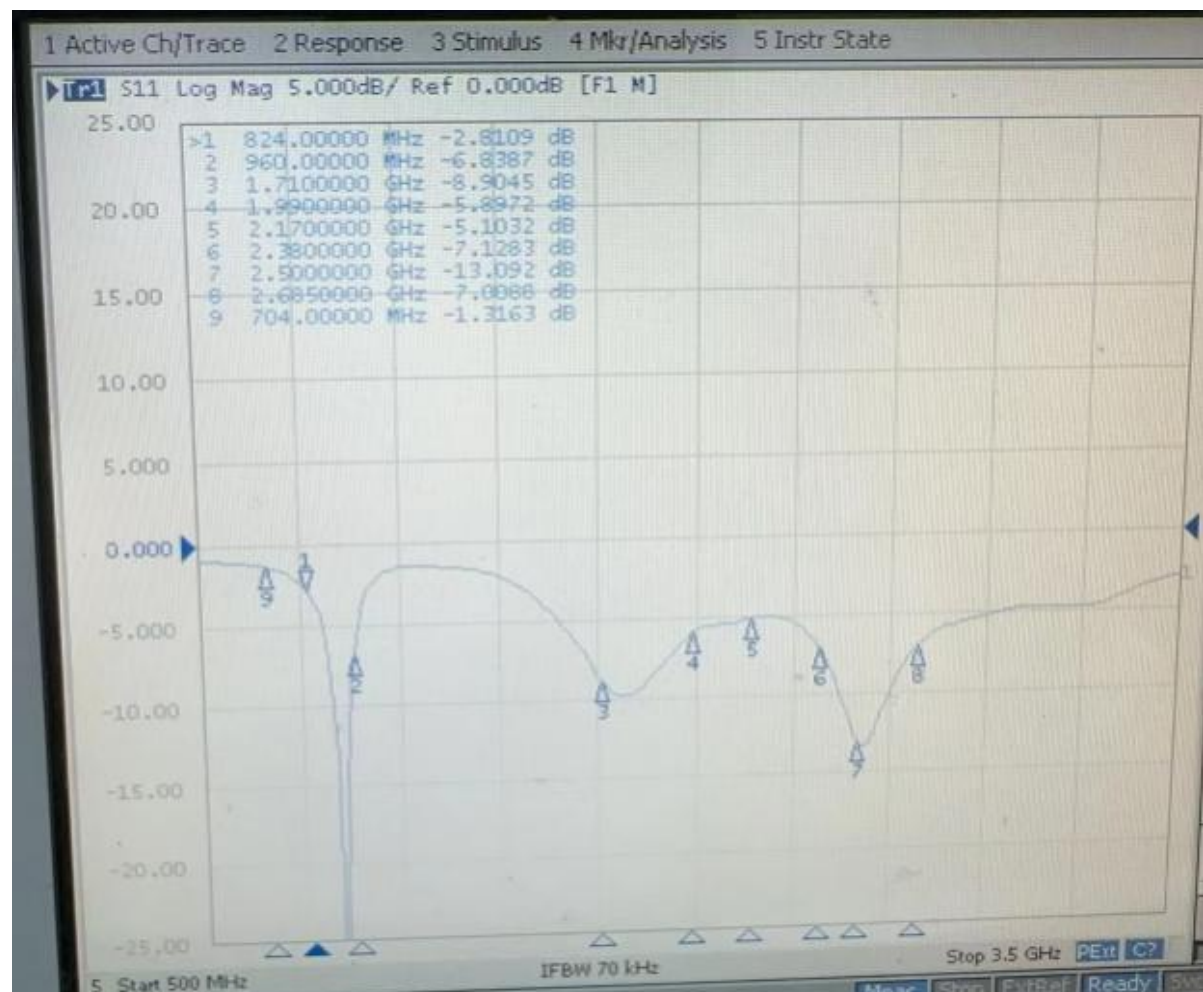
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West Block 403

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一、 Overview

This report contains the basic parameters and performance of the FENG MAI M30 project antenna (version v0.1) Antenna type: Internal Antenna

二、 low frequency antenna Test Data (Main)



2.1 low frequency Passive Efficiency Data & Gain (Main)

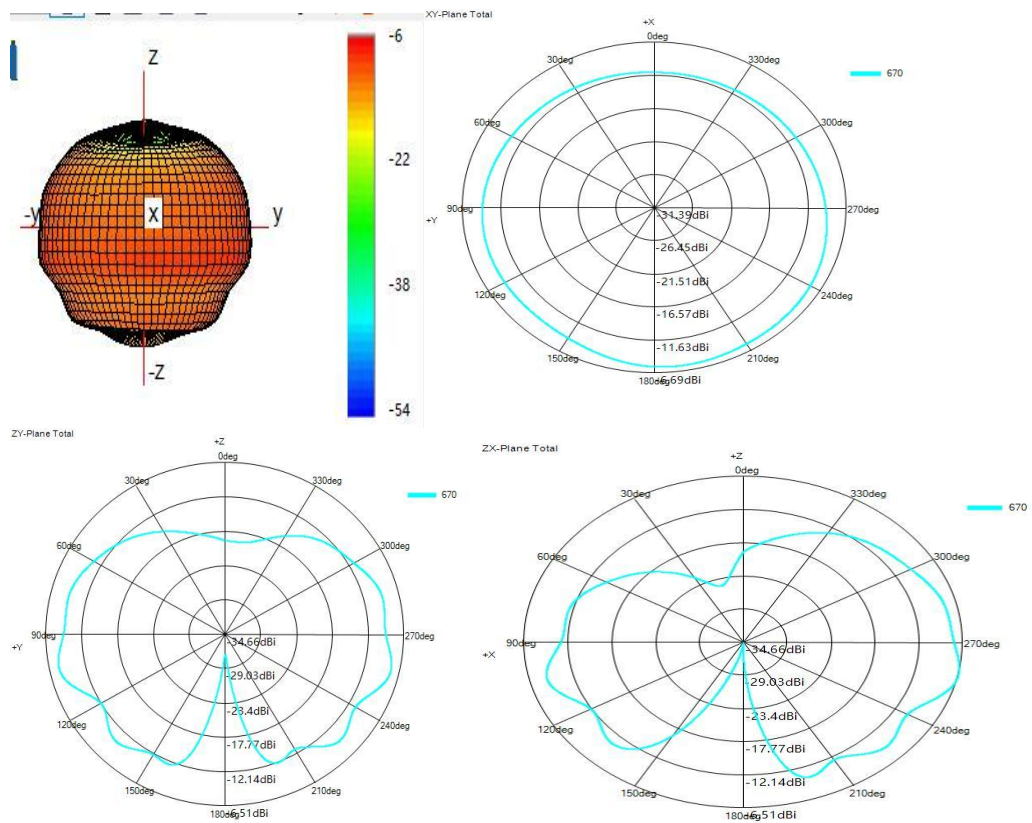
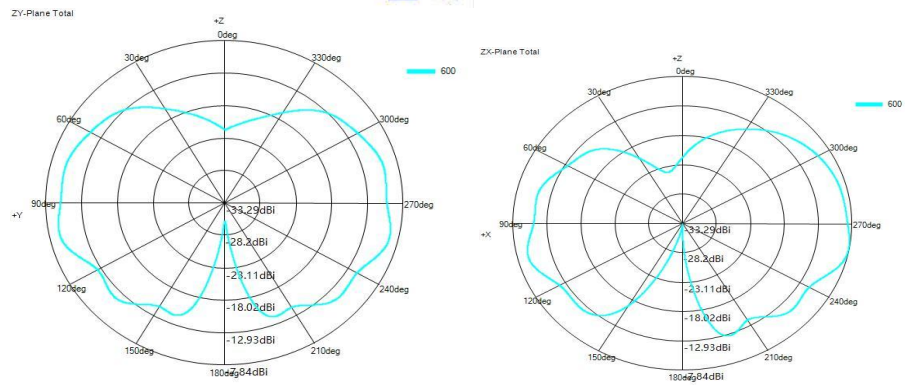
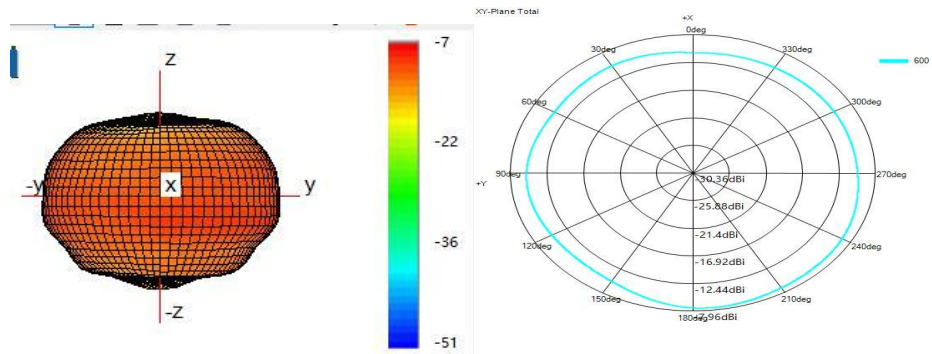
Freq(MHz)	Gain(dBi)	Efficiency (dBi)	Efficiency (%)
700	-7.15	-10.04	9.91
710	-6.4	-9.29	11.78
720	-5.57	-8.48	14.19
730	-5.04	-7.99	15.89
740	-4.61	-7.54	17.62
750	-4.35	-7.28	18.71
760	-4.44	-7.33	18.49
770	-4.78	-7.63	17.26
780	-5.28	-8.14	15.35
790	-6.03	-8.83	13.09
800	-7	-9.75	10.59

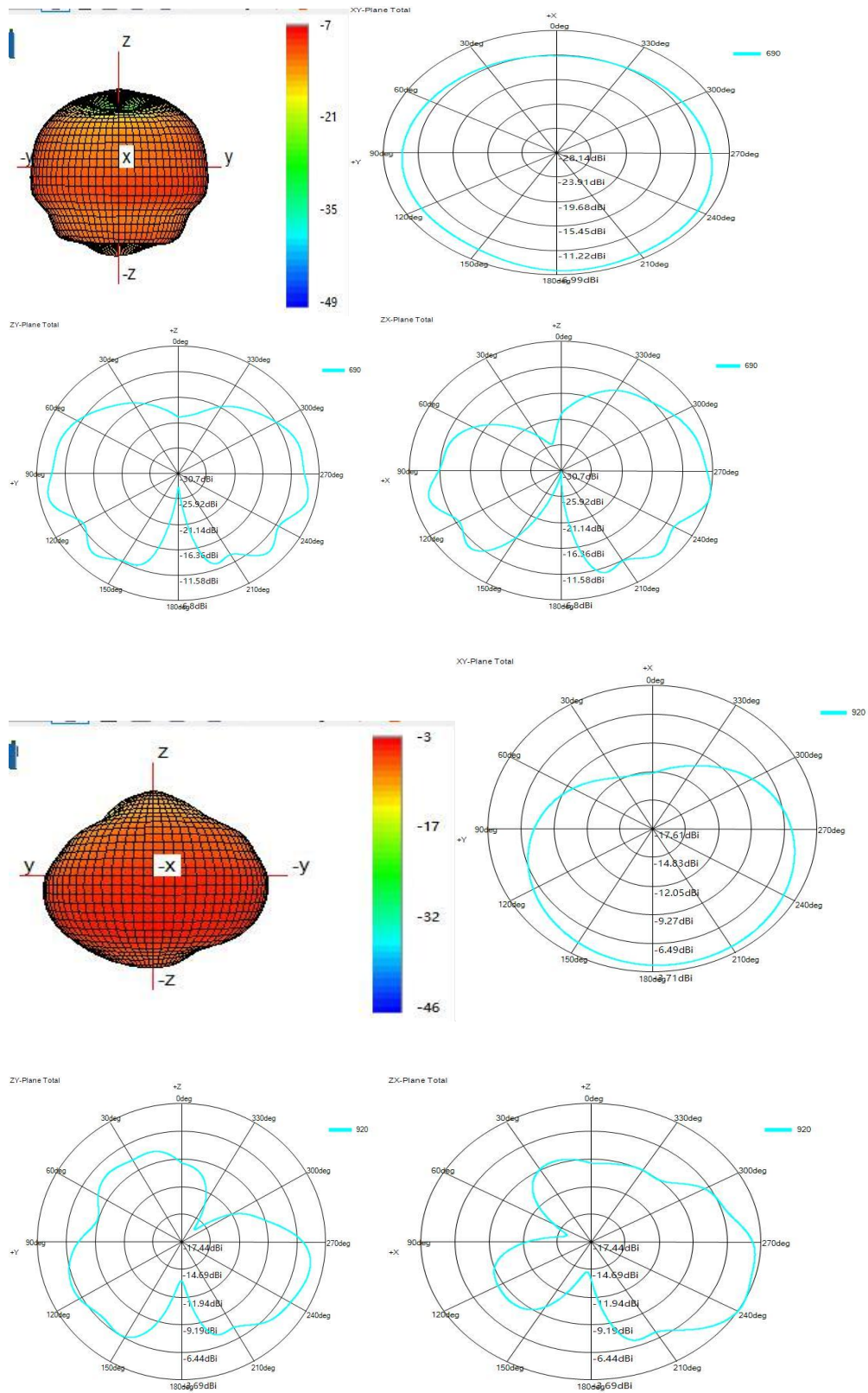
Freq(MHz)	Gain(dBi)	Efficiency (dBi)	Efficiency (%)
820	-5.76	-9.03	12.50
830	-5.2	-8.41	14.42
840	-4.42	-7.63	17.26
850	-4.01	-7.2	19.05
860	-4.08	-7.24	18.88
870	-4.37	-7.51	17.74
880	-4.96	-8.06	15.63
890	-5.67	-8.79	13.21
900	-6.57	-9.72	10.67
910	-7.33	-10.55	8.81

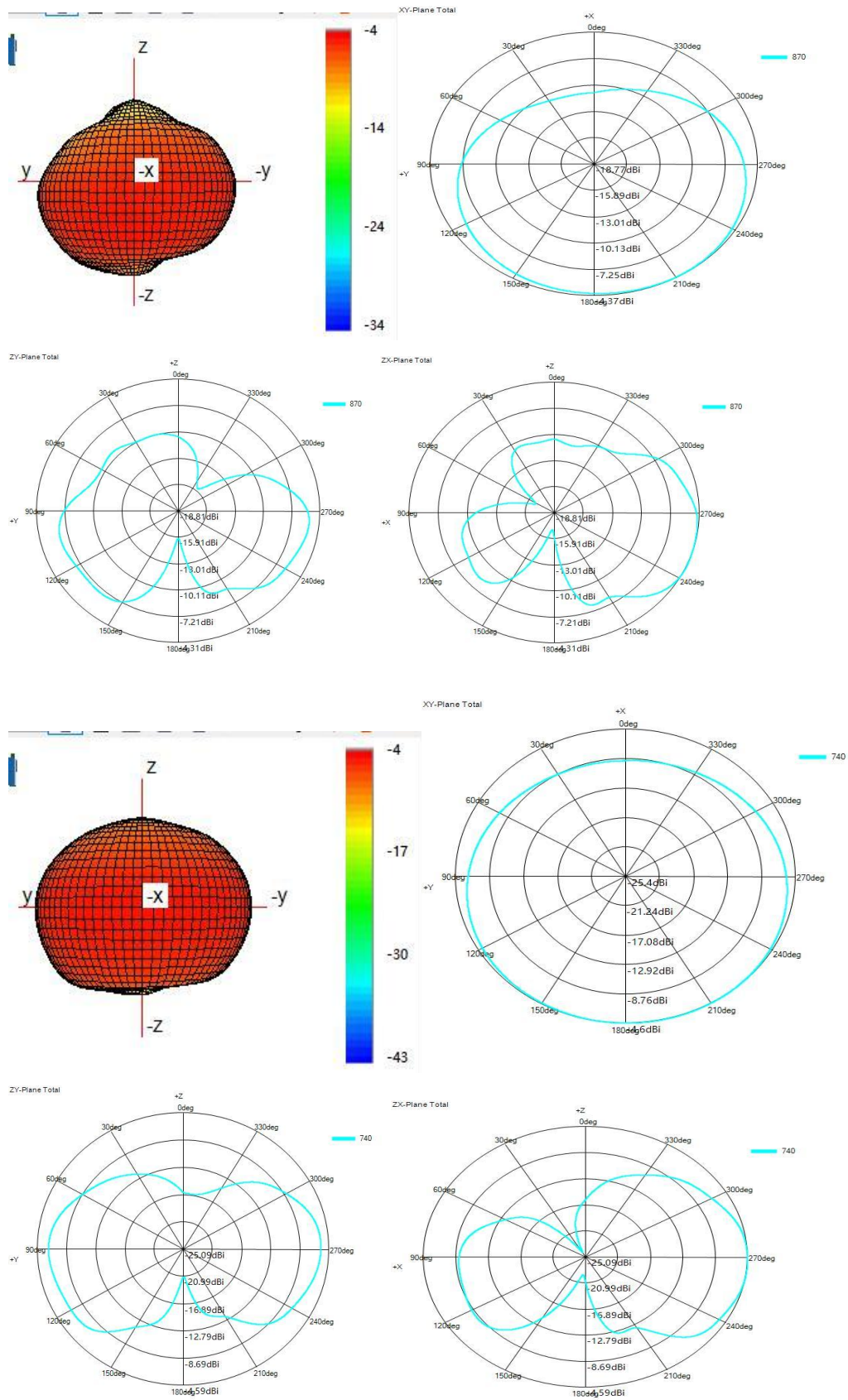
Freq(MHz)	Gain(dBi)	Efficiency (dBi)	Efficiency (%)
870	-4.47	-9.54	11.12
880	-4.43	-7.72	16.90
890	-3.76	-7.03	19.82
900	-3.23	-6.5	22.39
910	-3.23	-6.54	22.18
920	-3.71	-7.1	19.50
930	-4.36	-7.87	16.33
940	-5.48	-8.72	13.43
950	-5.26	-8.82	13.12
960	-6.31	-9.64	10.86

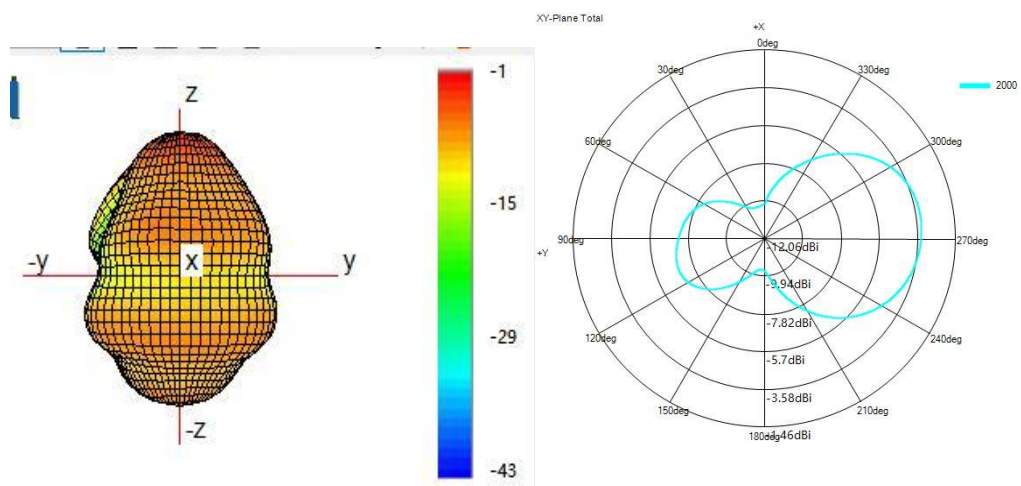
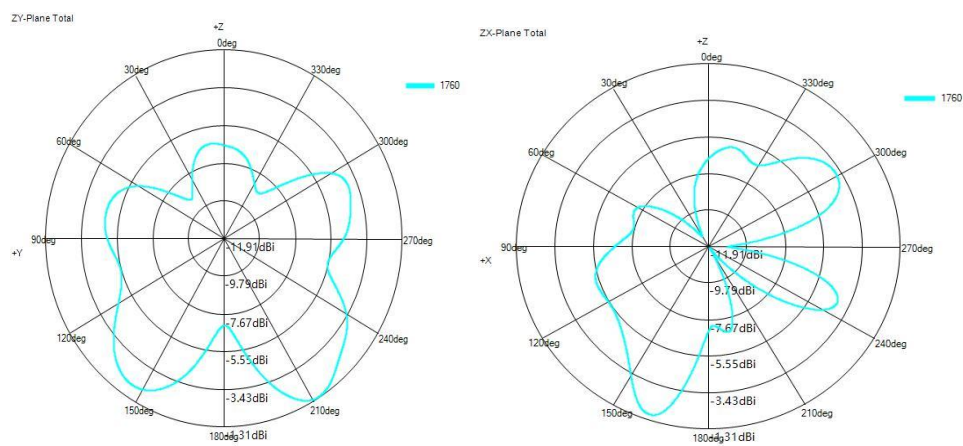
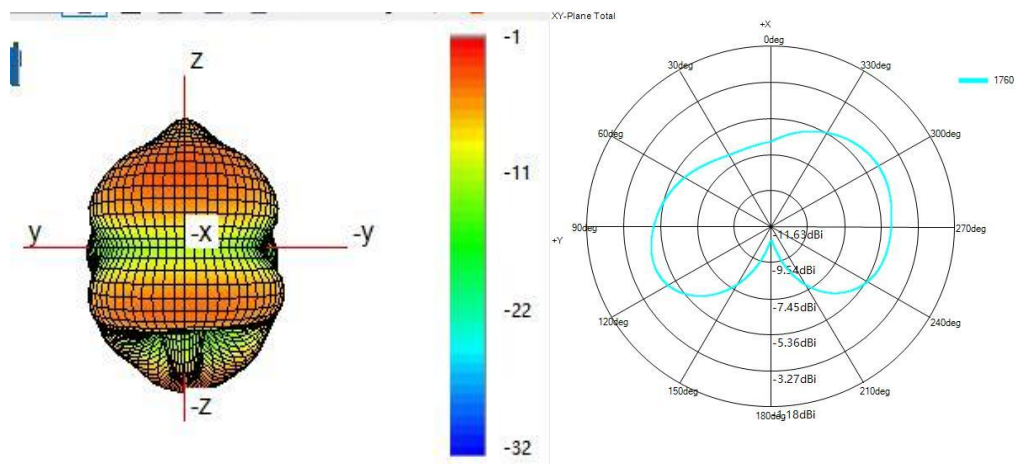
Freq (MHz)	Gain (dBi)	Efficiency(%)	Efficiency(dB)
1700	-1.8	30.2	-5.2
1720	-1.5	30.7	-5.1
1740	-1.3	31.8	-5.0
1760	-1.3	31.4	-5.0
1780	-1.4	31.1	-5.1
1800	-1.3	31.5	-5.0
1820	-1.3	32.6	-4.9
1840	-1.4	33.1	-4.8
1860	-1.3	34.2	-4.7
1880	-1.2	35.0	-4.6
1900	-0.6	37.6	-4.3
1920	-0.3	38.8	-4.1
1940	0.0	38.9	-4.1
1960	0.2	39.7	-4.0
1980	0.6	38.8	-4.1
2000	0.8	38.3	-4.2
2020	0.6	37.5	-4.3
2040	-1.1	33.3	-4.8
2060	-0.6	32.2	-4.9
2080	-0.8	31.2	-5.1
2100	-1.1	29.8	-5.3
2120	-1.1	28.8	-5.4
2140	-1.2	26.6	-5.8
2160	-1.2	25.4	-6.0
2180	-1.0	26.0	-5.9
2200	-0.6	27.7	-5.6

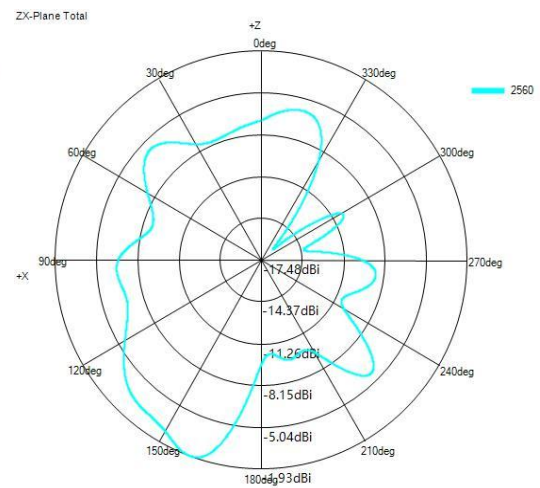
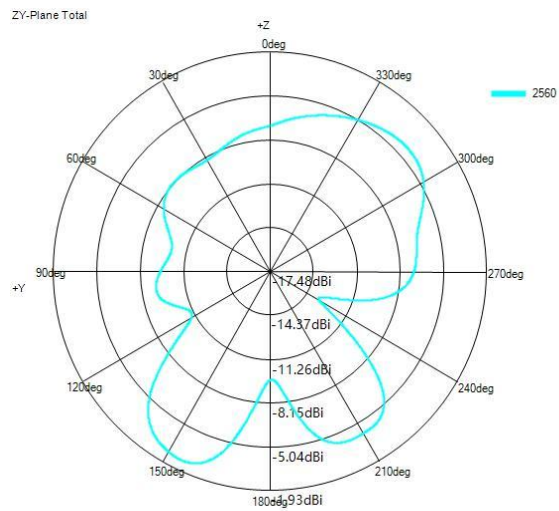
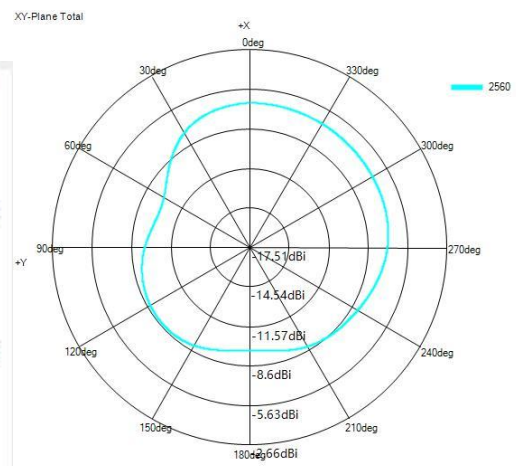
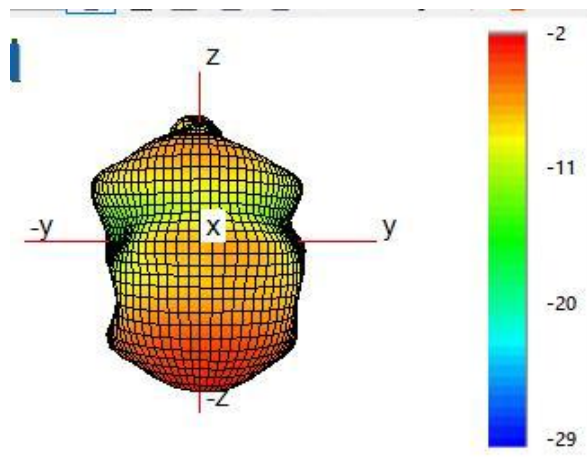
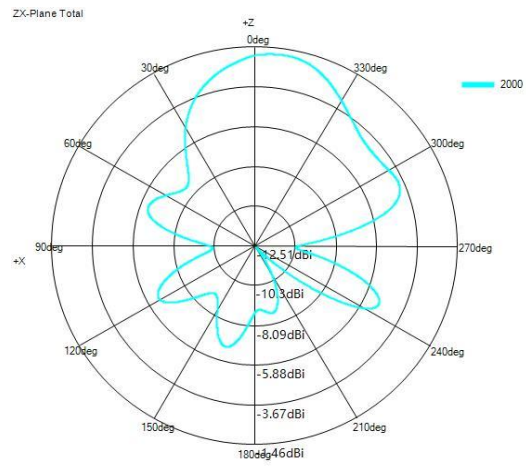
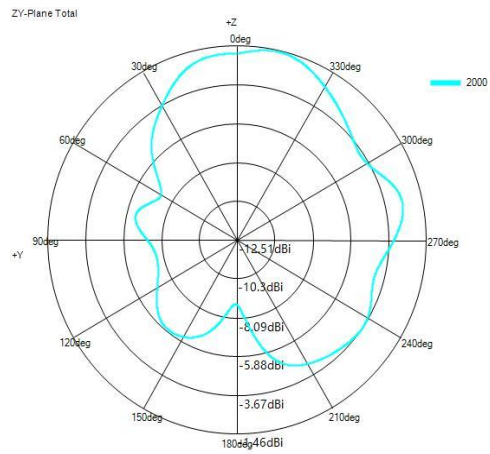
Freq (MHz)	Gain (dBi)	Efficiency(%)	Efficiency(dB)
2220	-0.4	29.1	-5.4
2240	-0.1	30.8	-5.1
2260	0.1	32.3	-4.9
2280	0.4	34.0	-4.7
2300	0.4	33.9	-4.7
2320	0.5	34.3	-4.6
2340	0.7	35.3	-4.5
2360	1.1	37.8	-4.2
2380	1.3	38.7	-4.1
2400	1.5	40.6	-3.9
2420	1.2	40.7	-3.9
2440	0.6	38.9	-4.1
2460	-0.2	36.7	-4.4
2480	-0.9	33.8	-4.7
2500	-1.3	32.7	-4.9
2520	-1.5	32.8	-4.9
2540	-1.3	33.0	-4.8
2560	-1.1	33.4	-4.8
2580	-0.6	34.4	-4.6
2600	-0.4	34.9	-4.6
2620	-0.1	34.8	-4.6
2640	0.0	33.0	-4.8
2660	-0.2	31.1	-5.1
2680	-0.3	30.6	-5.2
2700	-0.5	30.8	-5.1



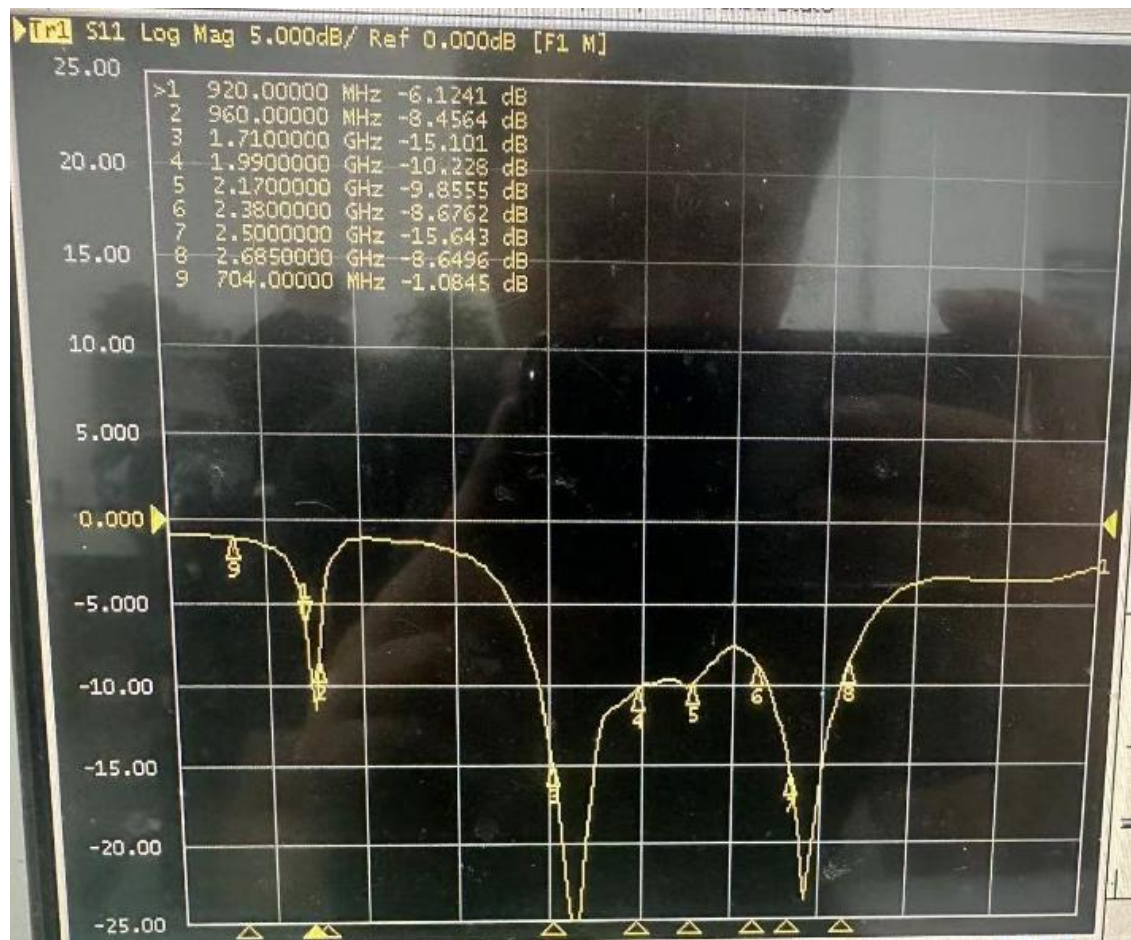








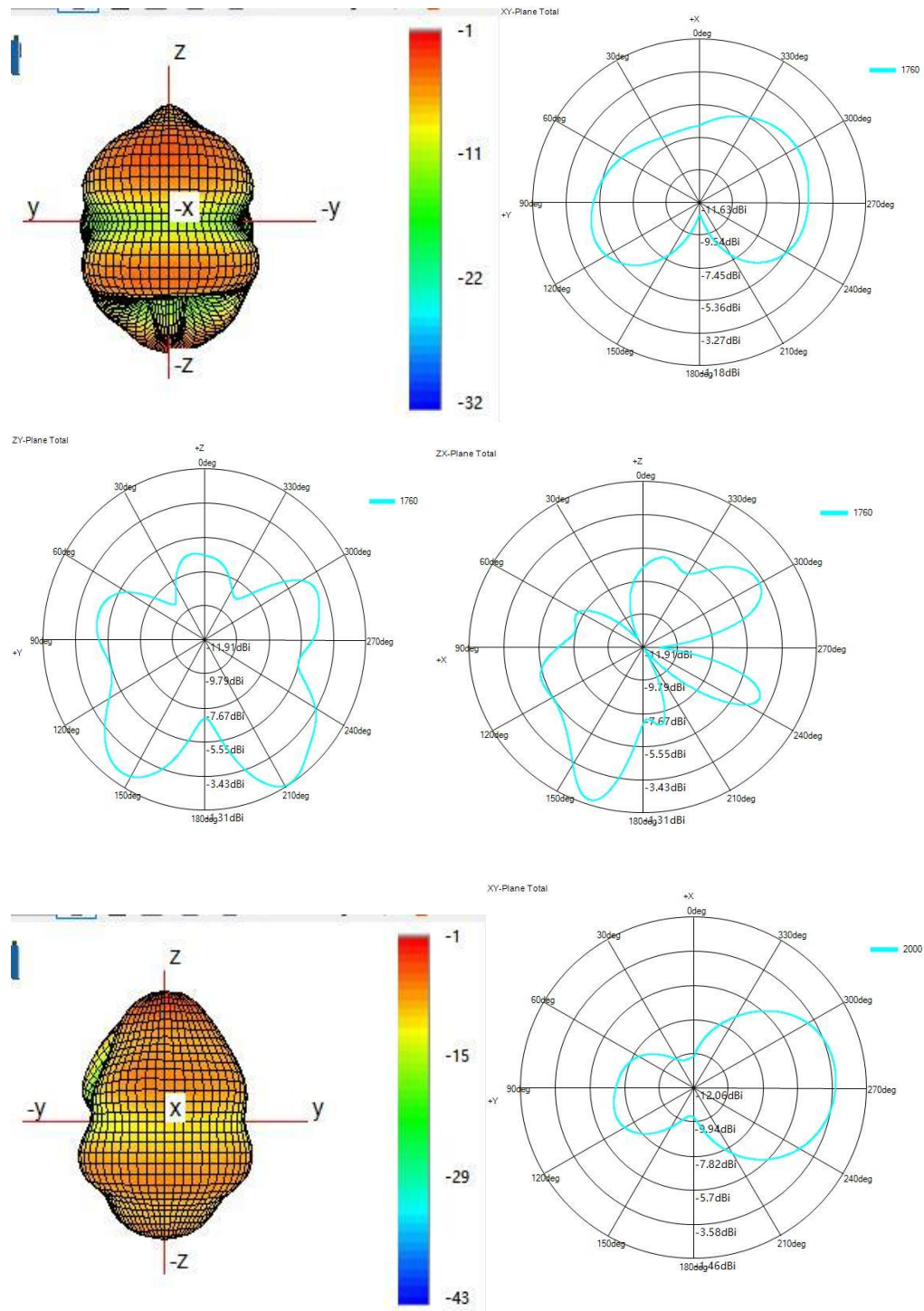
三、 Medium and high frequency antenna Test Data (DIV)

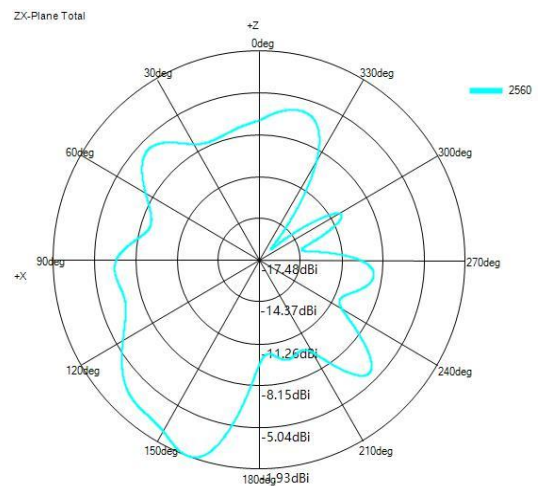
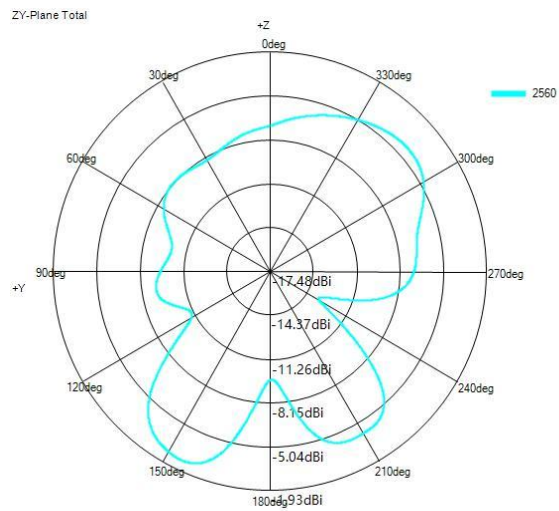
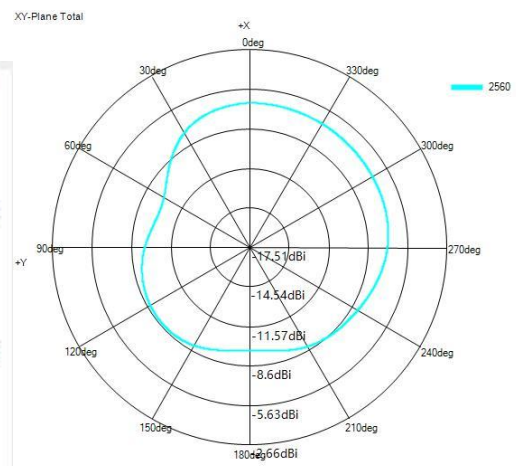
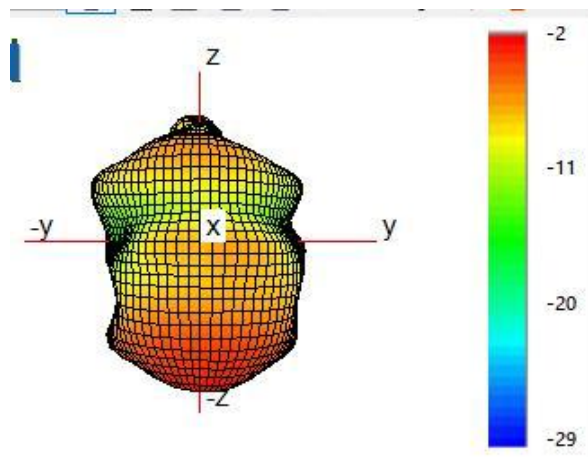
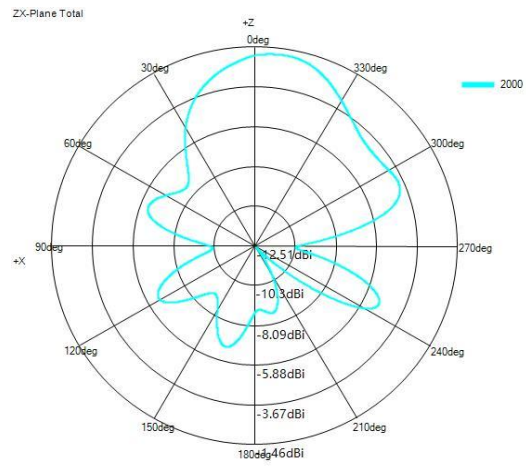
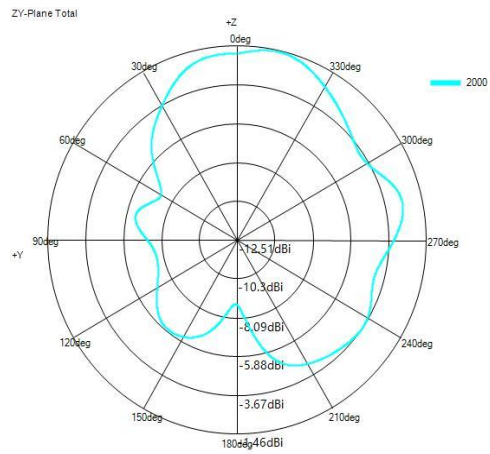


3.1 ' Medium and high frequency Passive Efficiency Data & Gain (DIV)

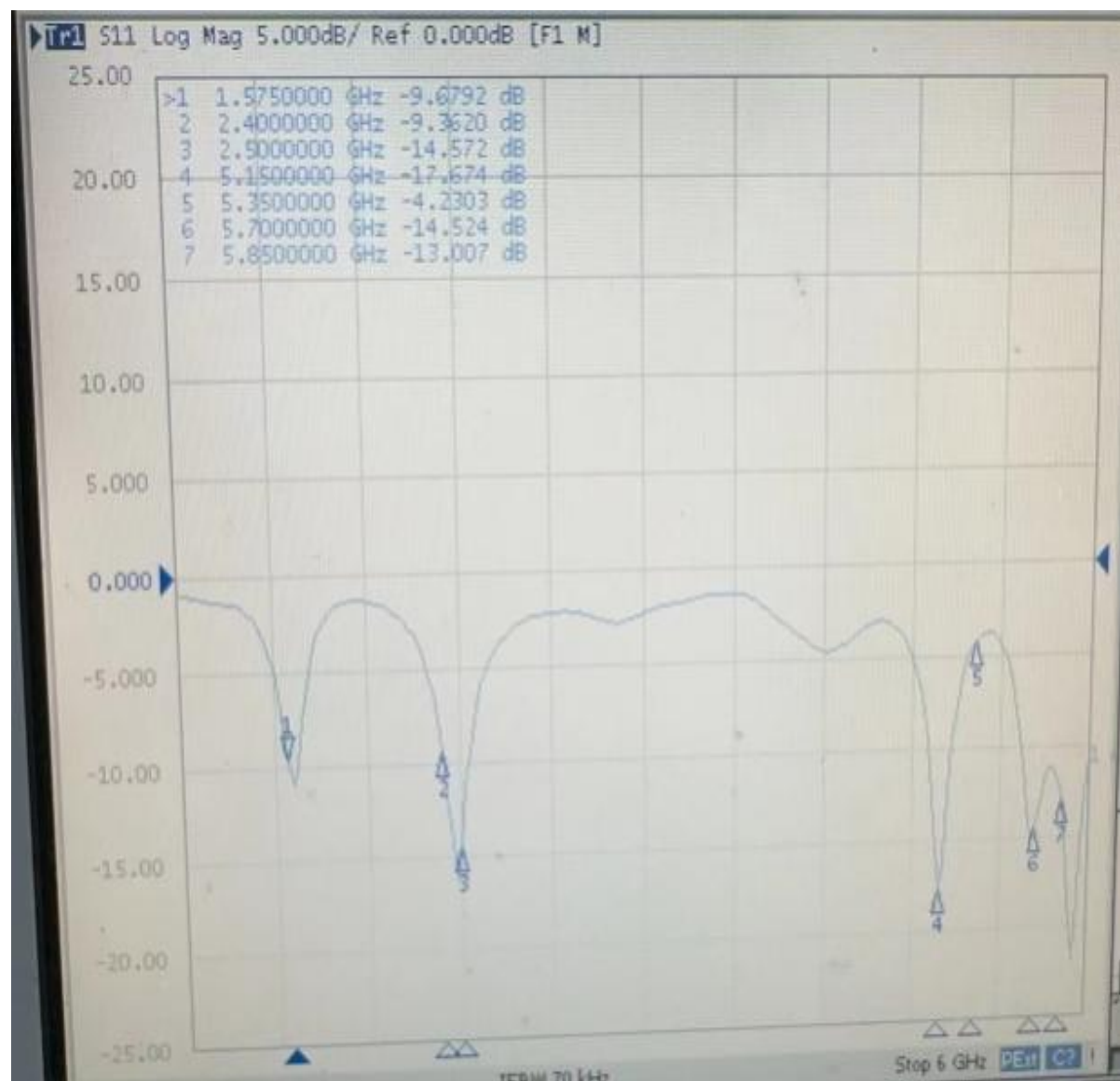
Freq(MHz)	Gain(dBi)	Efficiency (dBi)	Efficiency (%)
1700	-2.38	-6.37	23.07
1720	-2.18	-6.08	24.68
1740	-1.72	-5.62	27.39
1760	-1.31	-5.26	29.8
1780	-1.13	-4.96	31.93
1800	-1.17	-4.86	32.65
1820	-1.39	-4.99	31.7
1840	-1.56	-4.96	31.89
1860	-1.74	-4.98	31.75
1880	-1.87	-5.06	31.21
1900	-2.01	-5.01	31.52
1920	-2.3	-5.02	31.47
1940	-1.95	-5.1	30.92
1960	-1.88	-5.17	30.44
1980	-1.86	-5.38	28.96
2000	-1.49	-5.43	28.64
2020	-1.26	-5.54	27.9
2040	-1.25	-5.81	26.23
2060	-1.17	-5.92	25.56
2080	-1.04	-6.08	24.68
2100	-0.83	-6.16	24.2
2120	-0.78	-6.31	23.4
2140	-0.93	-6.52	22.29
2160	-0.95	-6.59	21.94
2180	-0.67	-6.33	23.26
2300	-1.27	-6.19	24.03
2320	-1.36	-6.25	23.72

Freq(MHz)	Gain(dBi)	Efficiency (dBi)	Efficiency (%)
2340	-1.43	-6.21	23.92
2360	-1.55	-6.32	23.31
2380	-1.47	-6.24	23.77
2400	-1.73	-6.32	23.34
2500	-2.31	-6.83	20.73
2520	-2.23	-6.85	20.67
2540	-2.44	-6.94	20.23
2560	-2.68	-7.02	19.85
2580	-2.73	-7.11	19.46
2600	-3.09	-7.34	18.44
2620	-3.12	-7.43	18.07
2640	-3.01	-7.52	17.69
2660	-3.09	-7.62	17.31
2680	-3.19	-7.54	17.63



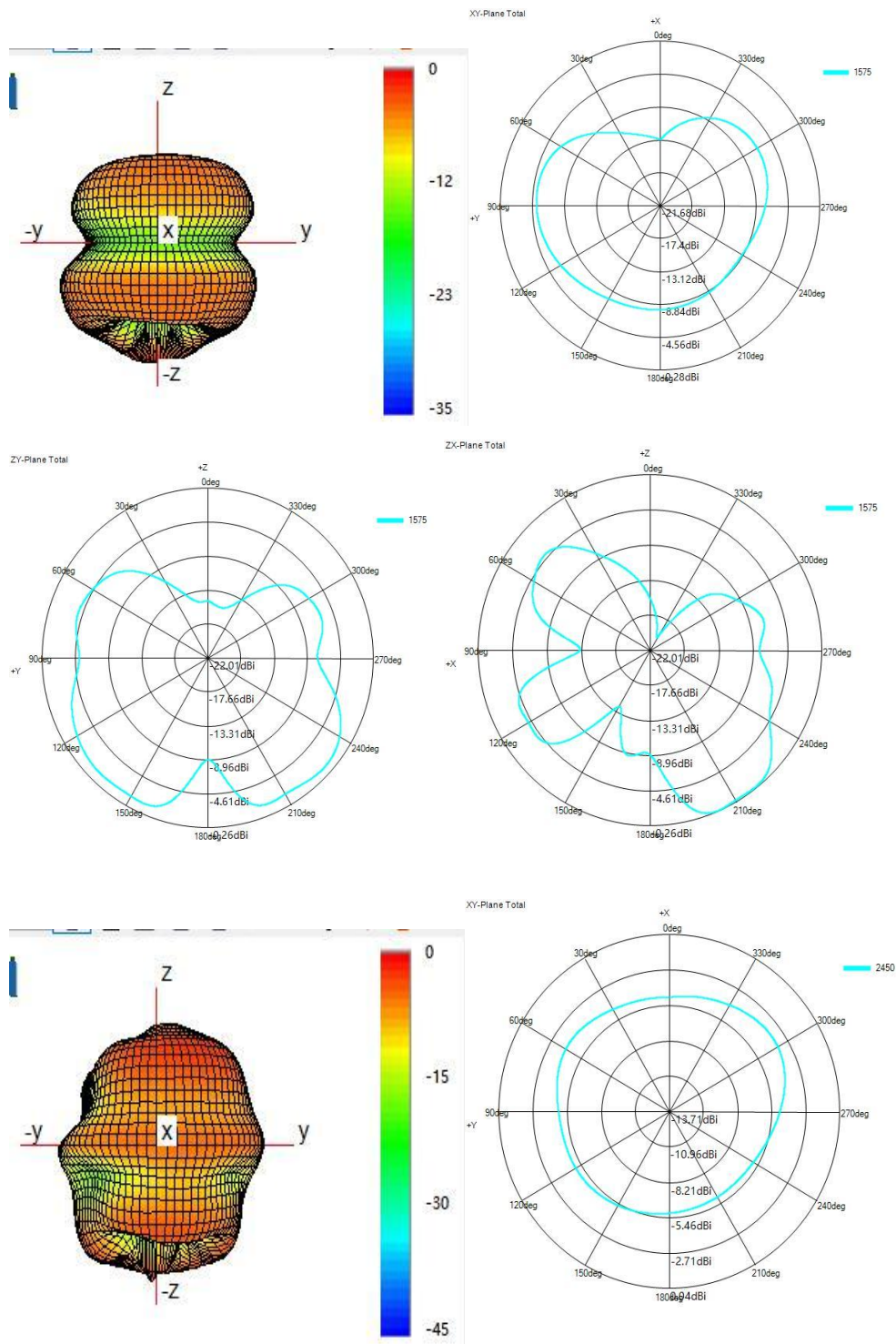


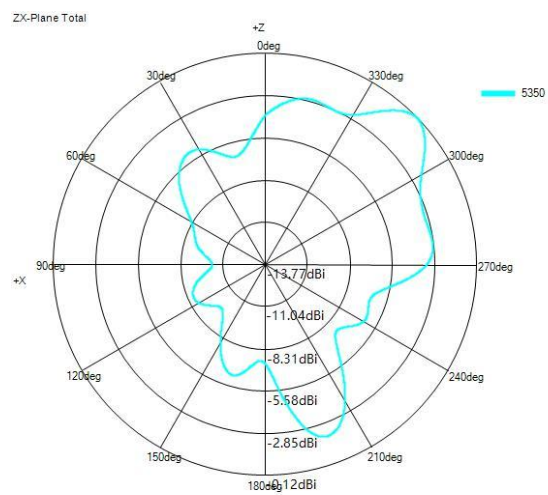
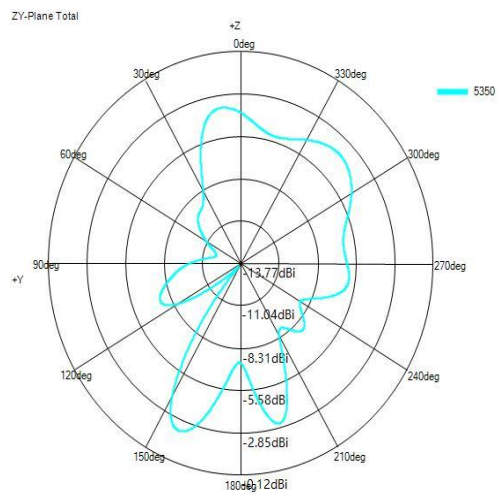
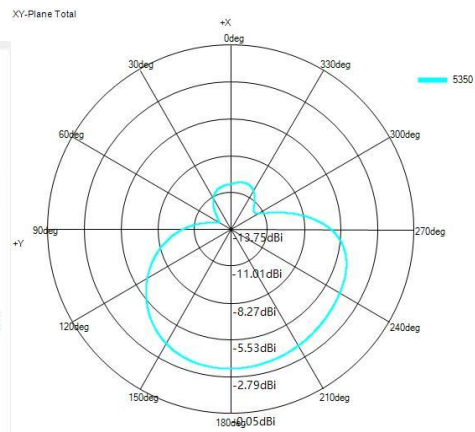
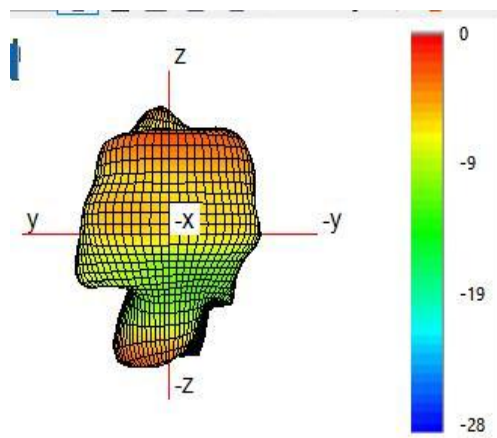
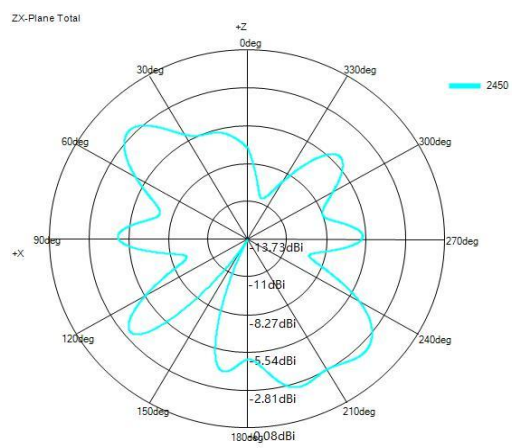
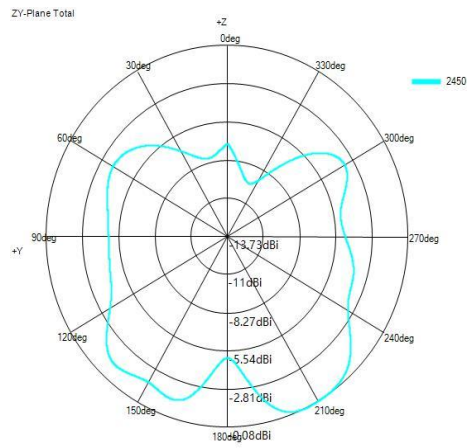
四、(GPS/WIFI/BT) antenna Test Data

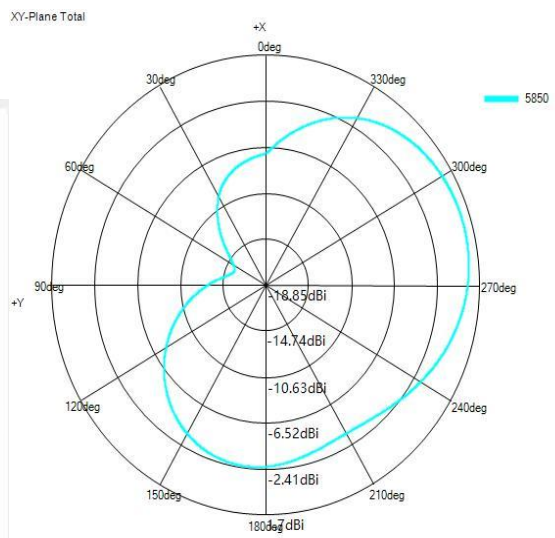
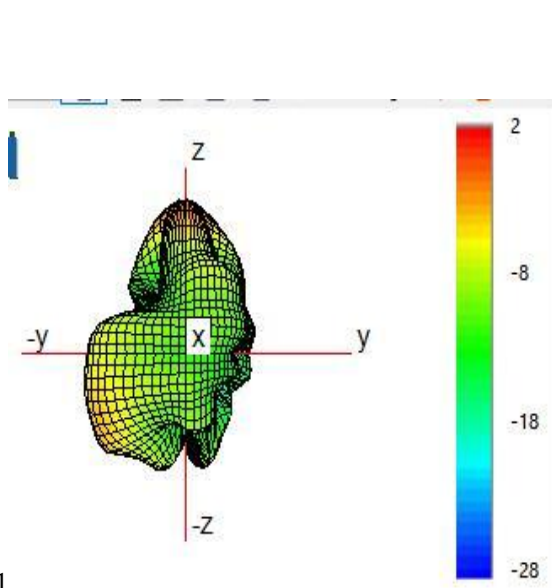


4.1 (GPS/WIFI/BT) Passive Efficiency Data & Gain

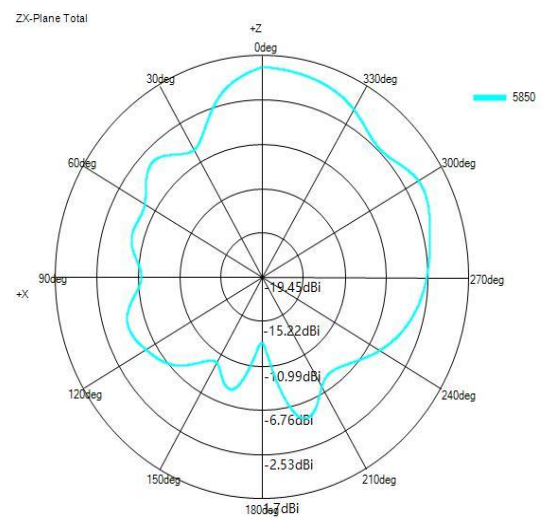
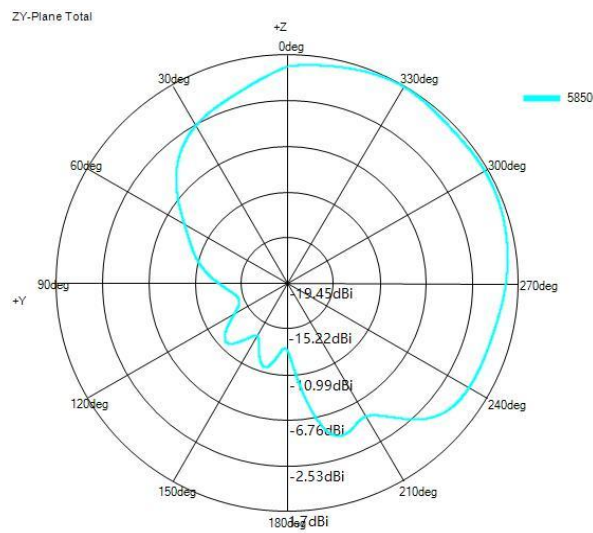
Freq(MHz)	Gain(dBi)	Efficiency (dBi)	Efficiency (%)
1550	-0.84	-4.07	39.17
1555	-0.83	-4.09	38.99
1560	-0.72	-4.1	38.90
1565	-0.55	-4.05	39.36
1570	-0.45	-4	39.81
1575	-0.39	-4.04	39.45
1580	-0.44	-4.16	38.37
1585	-0.57	-4.24	37.67
1590	-0.58	-4.23	37.76
1595	-0.52	-4.21	37.93
1600	-0.59	-4.25	37.58
2400	-0.3	-4.92	32.18
2410	-0.25	-4.83	32.85
2420	-0.24	-4.64	34.35
2430	-0.02	-4.53	35.21
2440	-0.08	-4.59	34.79
2450	-0.1	-4.59	34.73
2460	-0.14	-4.49	35.58
2470	0.17	-4.32	36.94
2480	0.05	-4.43	36.04
2490	0.23	-4.31	37.04
2500	0.54	-4.29	37.22
5000	1.3	-4.45	35.89
5050	1.29	-4.25	37.58
5100	1.74	-3.65	43.15
5150	1.67	-3.54	44.26
5200	1.57	-3.49	44.77
5250	1.01	-4.07	39.17
5300	0.22	-4.86	32.66
5350	-0.13	-5.51	28.12
5400	-0.25	-5.86	25.94
5450	-1.26	-6.61	21.83
5500	-2.11	-6.94	20.23
5550	-1.85	-6.64	21.68
5600	-1.61	-5.92	25.59
5650	-1.97	-5.44	28.58
5700	-1.01	-4.63	34.43
5750	0.37	-4.32	37.01
5800	1.22	-3.75	42.12
5850	1.7	-3.27	47.04







1



Unit: mm

