

1. Overview

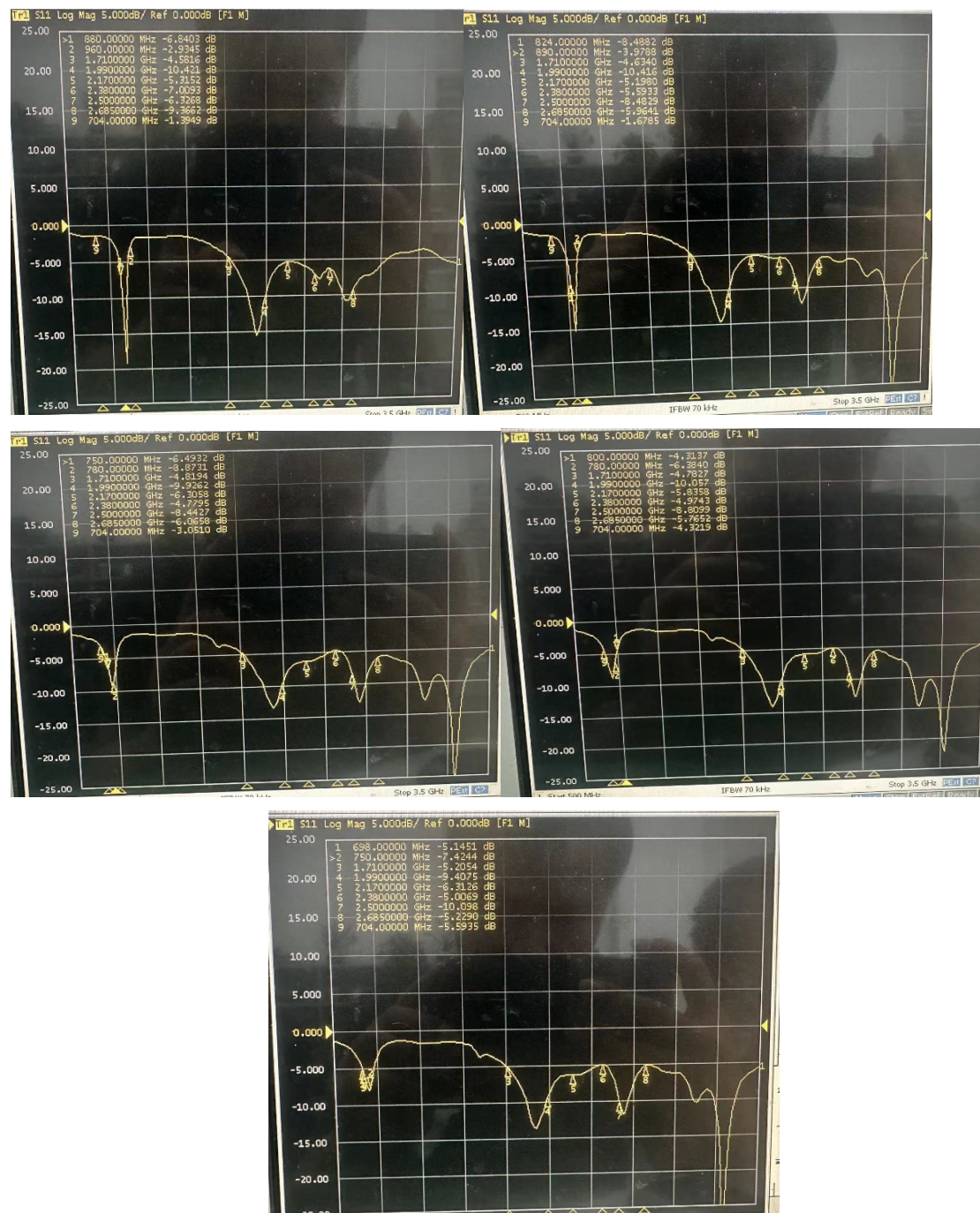
This report contains the basic parameters and performance of the Kai cheng 3200P project antenna (version v0.1)

Manufacturer: Shenzhen Dosking Technology Co., Ltd.

Address: Room 208, 2nd Floor, East Block Zhonglian Building, Tairan Industry & Trade Park, Chegongmiao Futian District, Shenzhen

Model: B3 MAIN ANT, B3 DIV ANT, B3 BT/Wi-Fi/GNSS ANT

2. Main Antenna Test Data



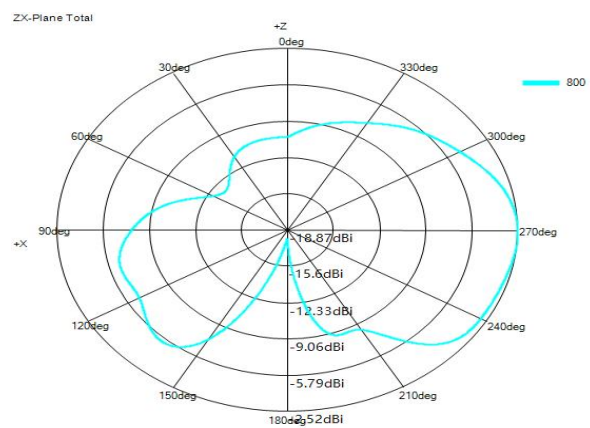
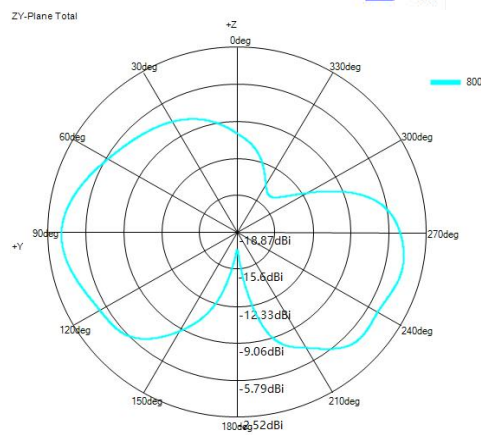
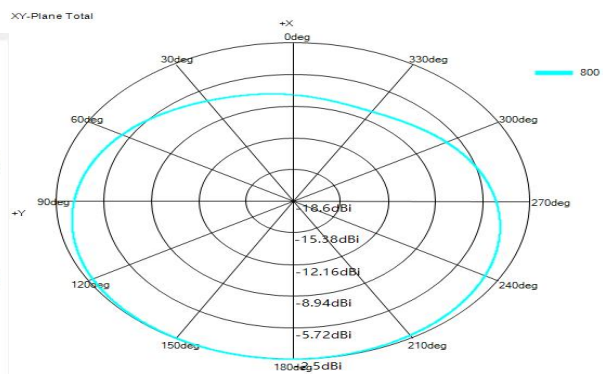
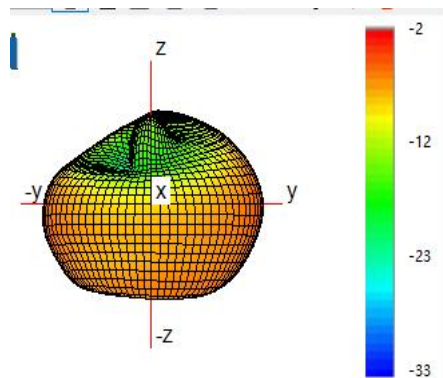
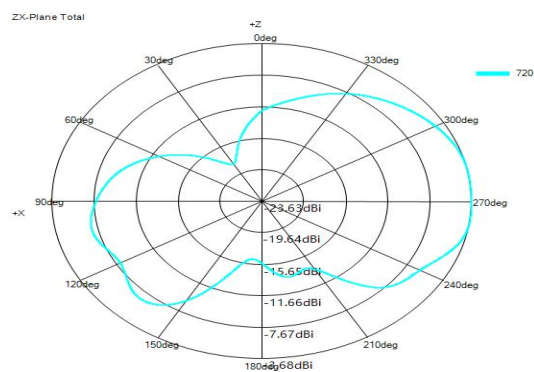
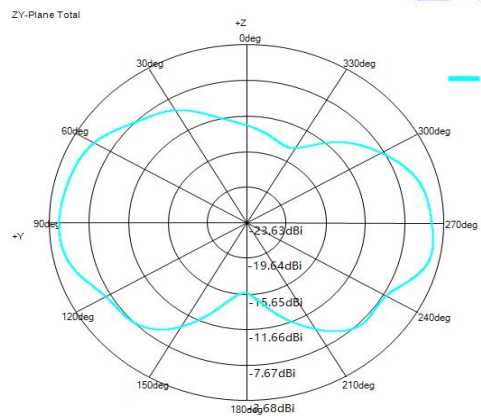
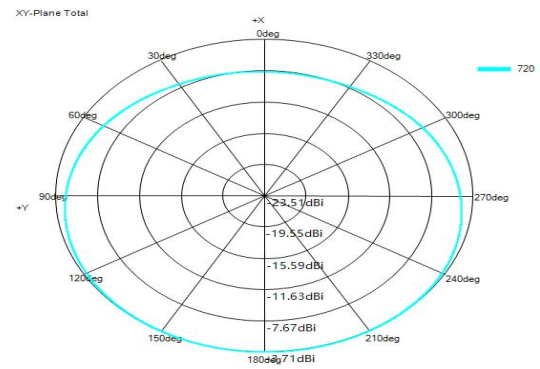
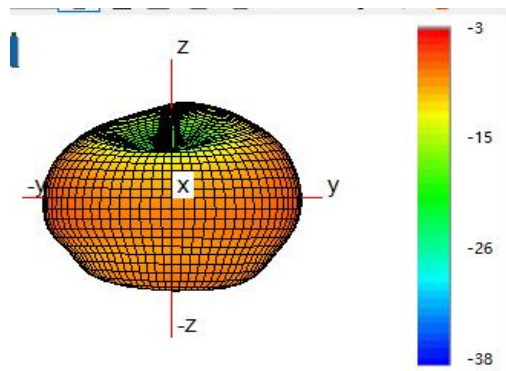
2.1 Passive Efficiency Data & Gain

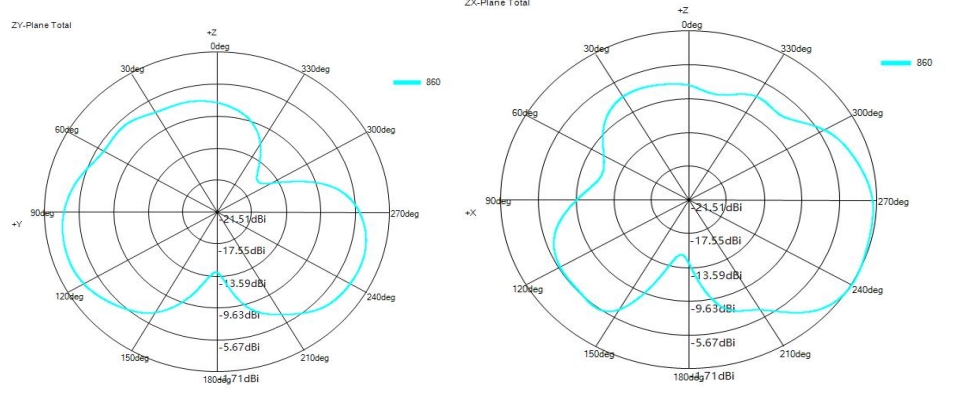
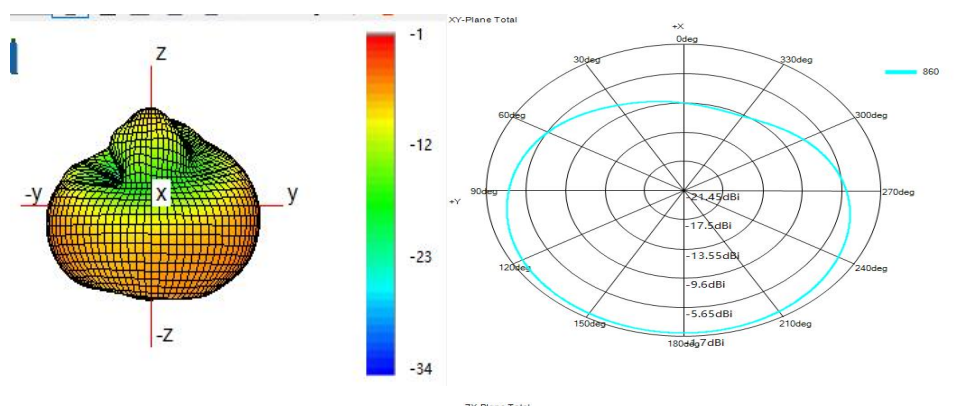
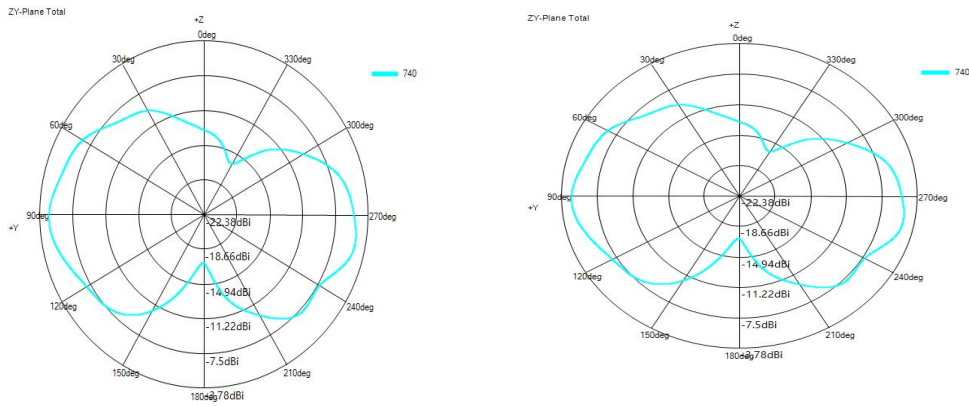
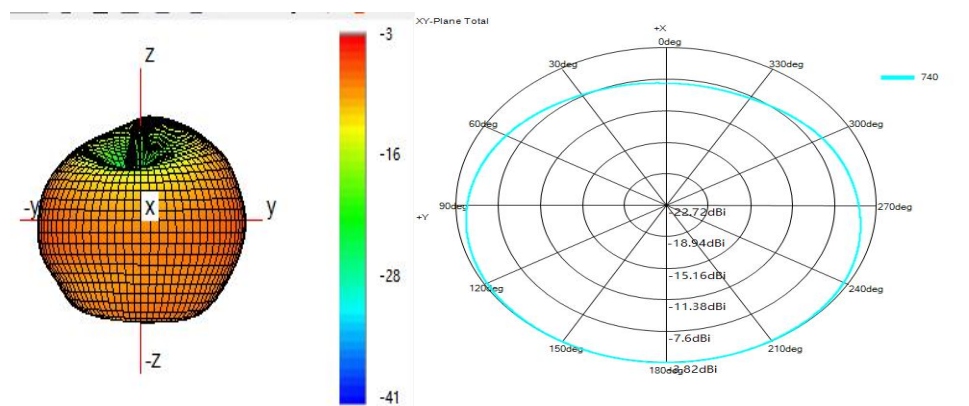
Freq (MHz)	Gain (dBi)	Efficiency(%)	Efficiency(dB)
700	-4.77	15.8	-8.0
710	-4.19	18.2	-7.4
720	-3.71	20.6	-6.9
730	-3.33	22.0	-6.6
740	-3.09	23.0	-6.4
750	-2.92	23.8	-6.2
760	-2.86	23.9	-6.2
770	-3.36	21.1	-6.8
780	-2.92	23.2	-6.3
790	-2.57	25.0	-6.0
800	-2.52	25.5	-5.9
810	-2.86	23.7	-6.3
820	-4.0	17.8	-7.5
830	-3.3	20.7	-6.9
840	-2.7	23.5	-6.3
850	-2.1	26.6	-5.8
860	-1.7	27.8	-5.6
870	-1.6	27.7	-5.6
880	-1.9	25.8	-5.9
890	-2.4	23.4	-6.3
900	-3.2	20.6	-6.9
910	-2.6	22.9	-6.4
920	-1.7	27.5	-5.6
930	-0.8	31.6	-5.0
940	-0.4	32.9	-4.8
950	-0.6	30.6	-5.1
960	-1.2	25.3	-6.0

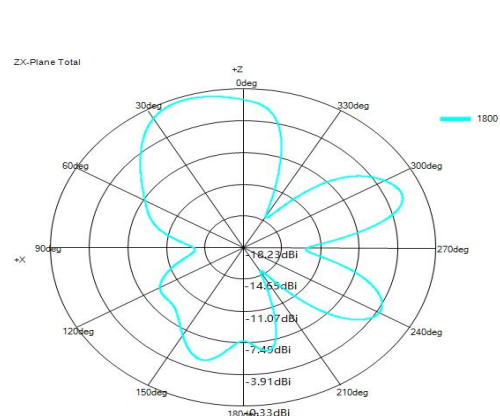
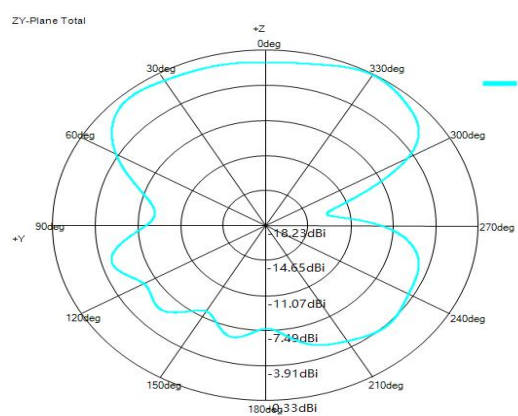
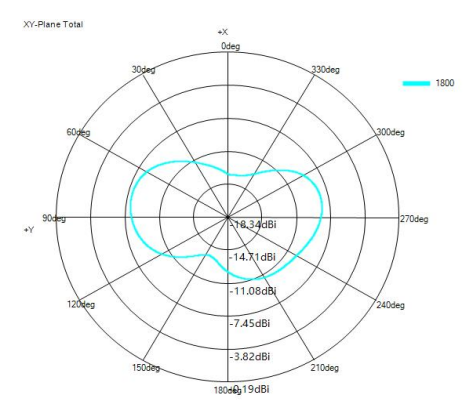
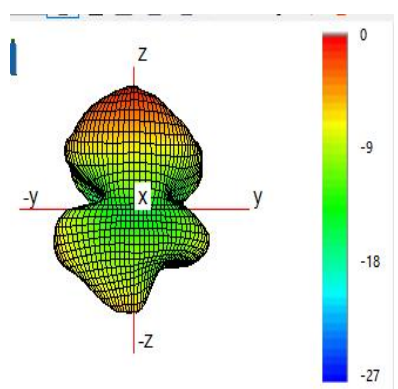
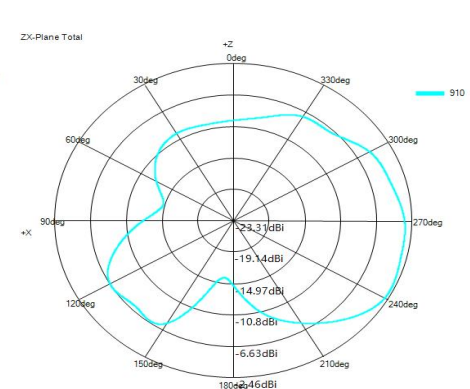
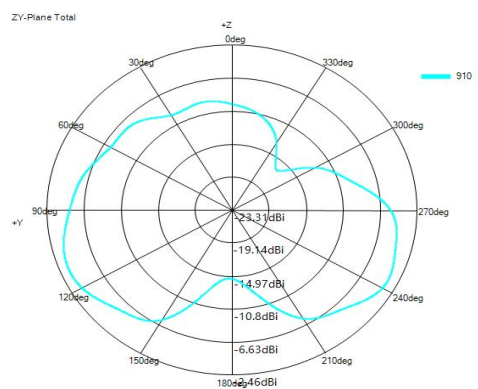
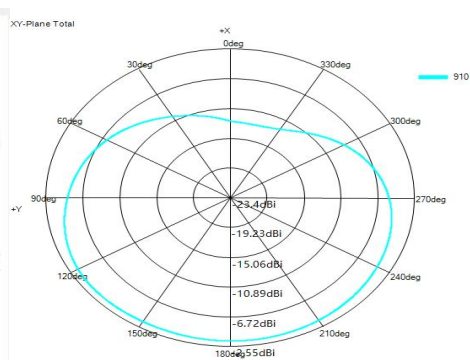
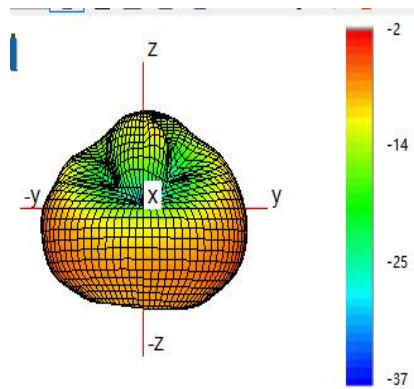
Freq (MHz)	Efficiency(%)	Efficiency (dB)	Gain(dBi)
1700	15.7	-8.04	-3.22
1710	16.32	-7.87	-2.87
1720	17.48	-7.58	-2.58
1730	18.98	-7.22	-2.27
1740	20.32	-6.92	-1.83
1750	22.18	-6.54	-1.52
1760	22.93	-6.4	-1.32
1770	23.92	-6.21	-1.18
1780	25.61	-5.92	-0.88
1790	26.83	-5.71	-0.57

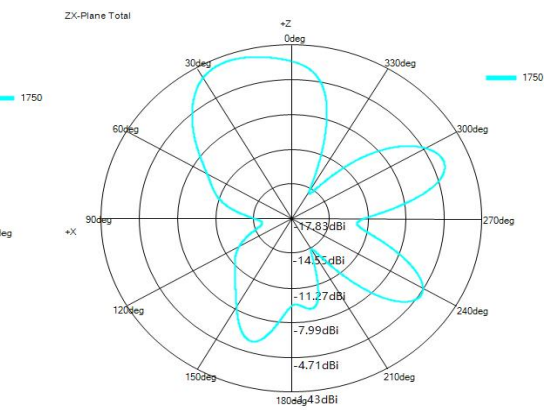
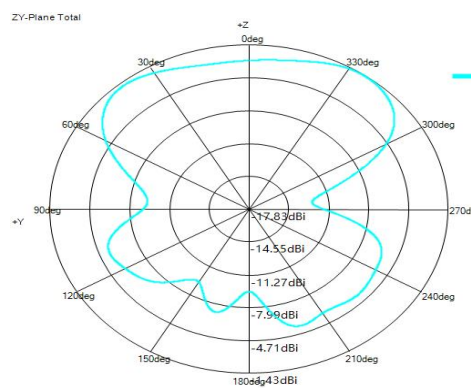
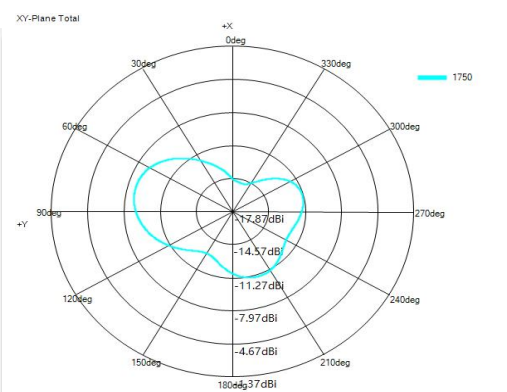
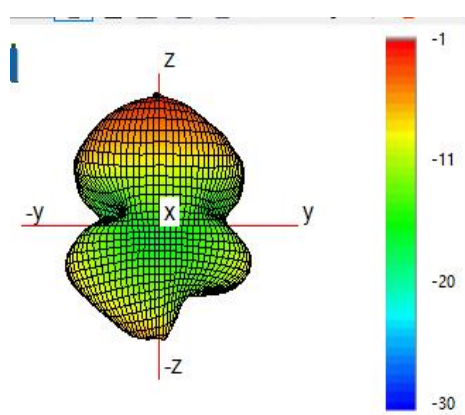
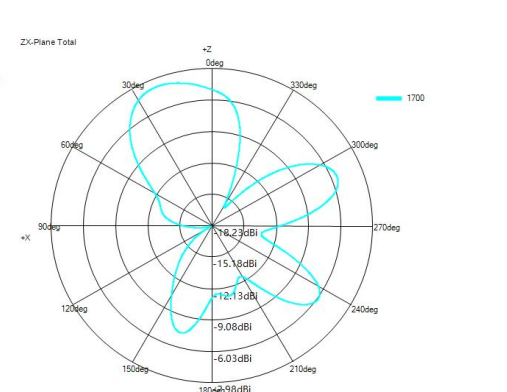
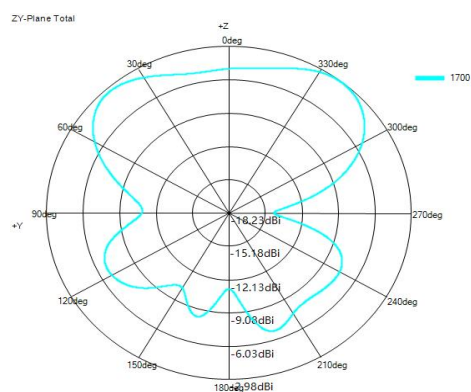
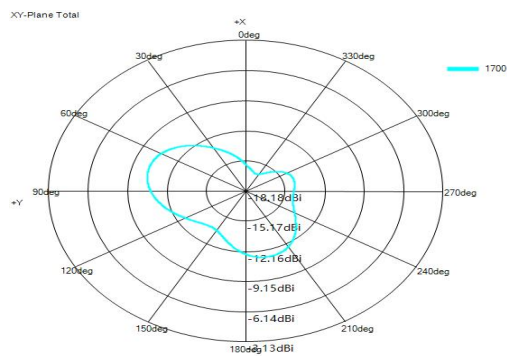
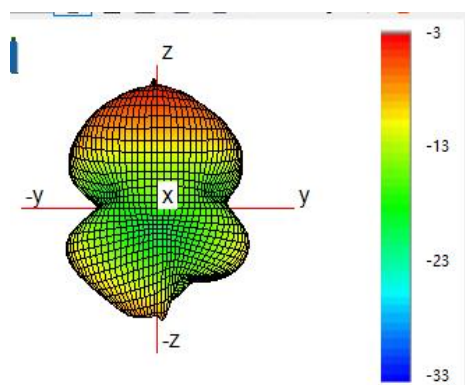
Freq (MHz)	Efficiency(%)	Efficiency (dB)	Gain(dBi)
1800	28.43	-5.46	-0.36
1810	29.16	-5.35	-0.21
1820	31.09	-5.07	0.1
1830	32.67	-4.86	0.23
1840	33.74	-4.72	0.35
1850	34.81	-4.58	0.52
1860	36.09	-4.43	0.49
1870	35.81	-4.46	0.63
1880	36.49	-4.38	0.6
1890	36.85	-4.34	0.76
1900	38.6	-4.13	0.92
1910	39.53	-4.03	0.88
1920	38.98	-4.09	1.1
1930	38.52	-4.14	0.95
1940	36.82	-4.34	0.7
1950	35.9	-4.45	0.75
1960	34.91	-4.57	0.44
1970	33.47	-4.75	0.28
1980	31.78	-4.98	0.01
1990	29.9	-5.24	-0.15
2000	28.66	-5.43	-0.35
2010	27.45	-5.61	-0.51
2020	26.29	-5.8	-0.65
2030	25.04	-6.01	-0.9
2040	23.03	-6.38	-1.31

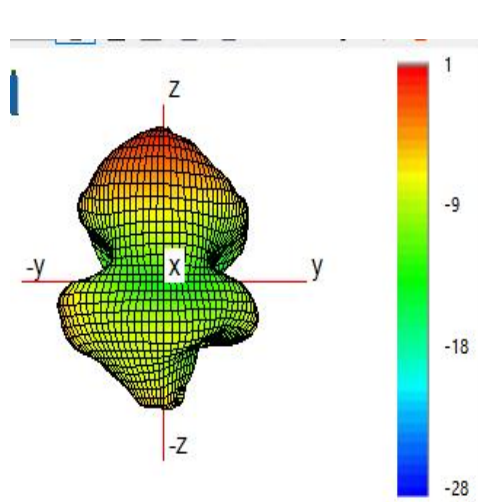
Freq (MHz)	Efficiency(%)	Efficiency (dB)	Gain(dBi)
2050	21.51	-6.67	-1.66
2060	20.43	-6.9	-1.97
2070	18.91	-7.23	-2.31
2080	17.82	-7.49	-2.64
2090	16.05	-7.95	-3.21
2100	15.18	-8.19	-3.47
2110	14.56	-8.37	-3.74
2120	13.76	-8.61	-4.04
2130	12.97	-8.87	-4.38
2140	11.85	-9.26	-4.78
2150	10.89	-9.63	-5.21
2160	10.63	-9.74	-5.4
2170	10.1	-9.96	-5.67
2180	10.16	-9.93	-5.73



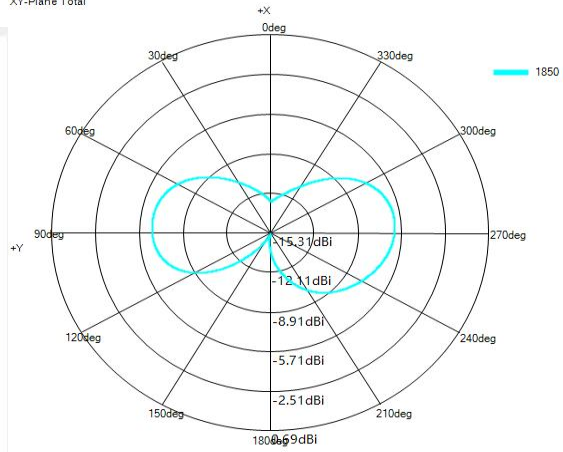




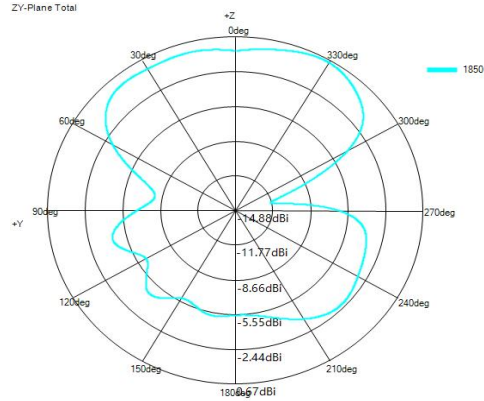




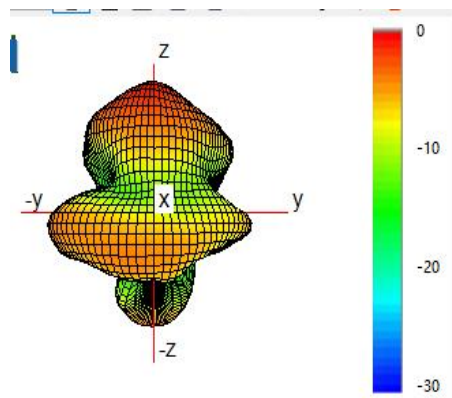
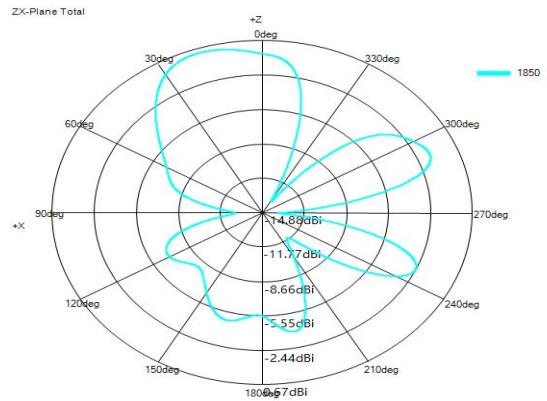
XY-Plane Total



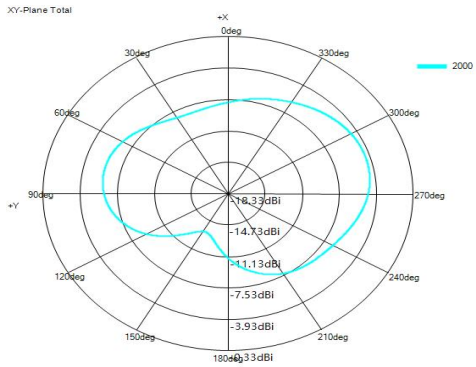
ZY-Plane Total



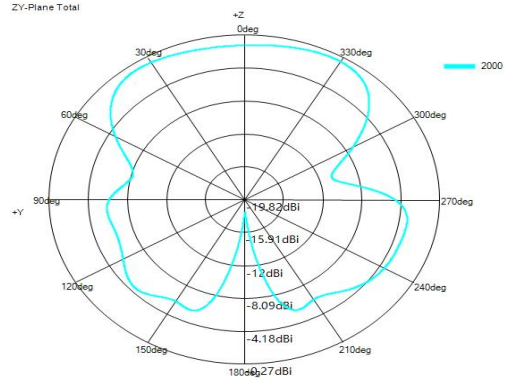
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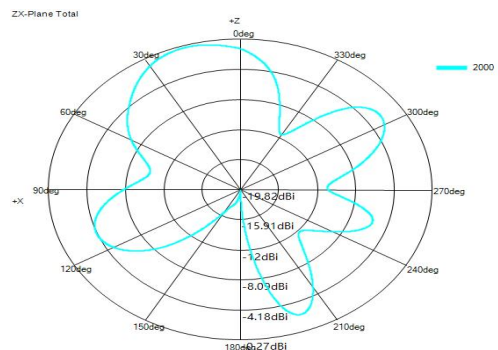
XY-Plane Total

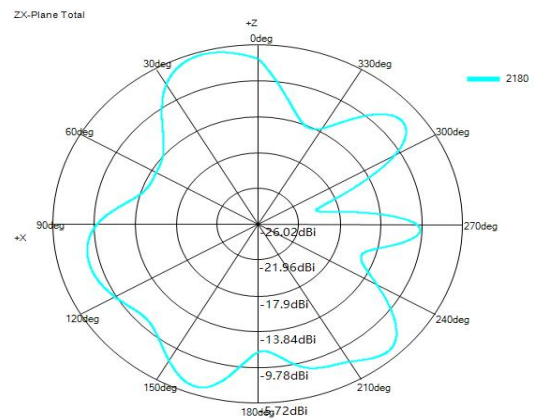
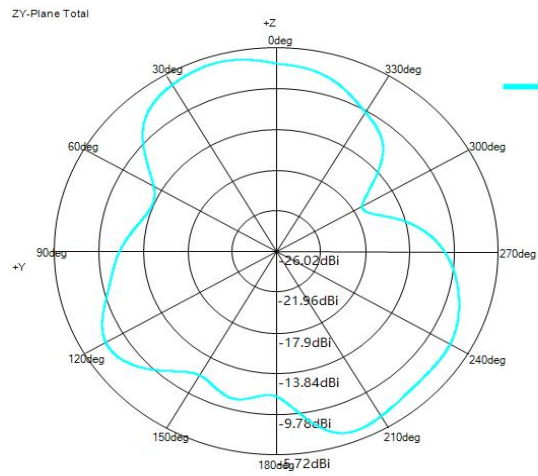
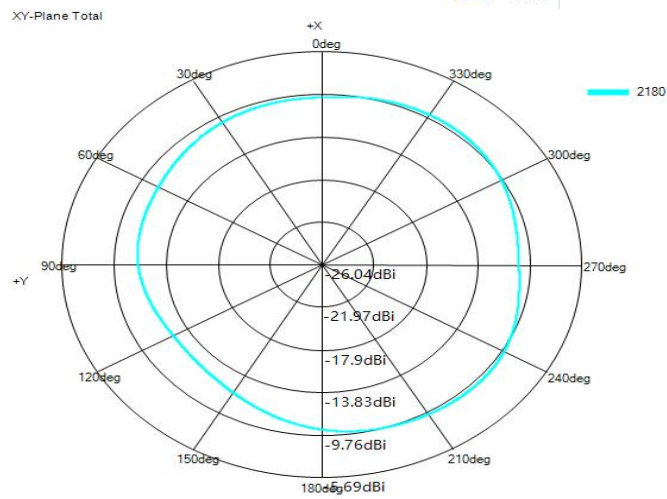
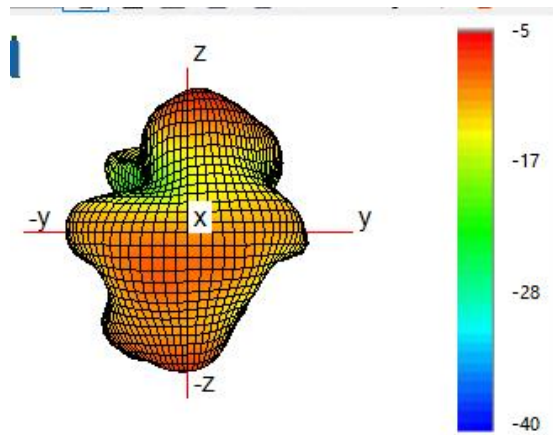


ZY-Plane Total

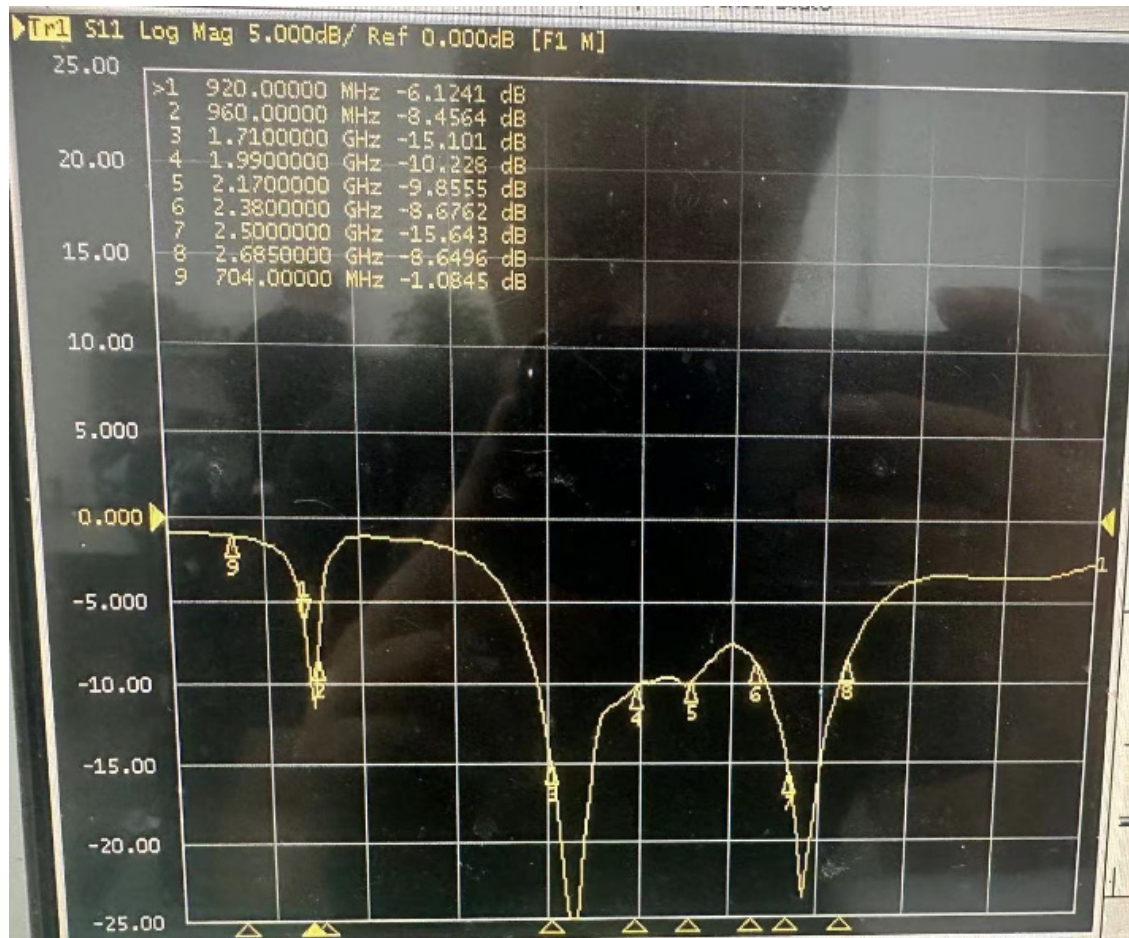


ZX-Plane Total





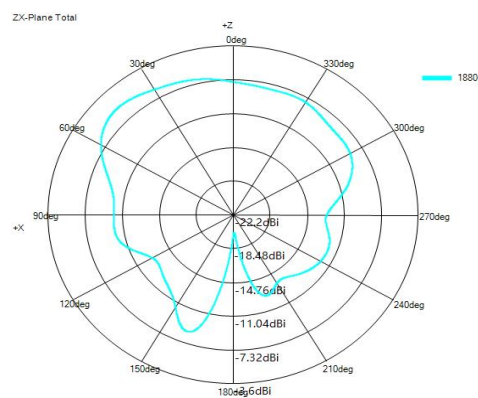
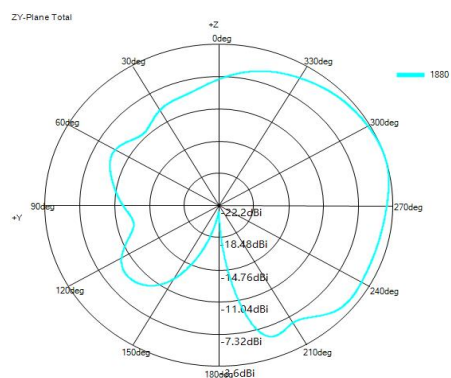
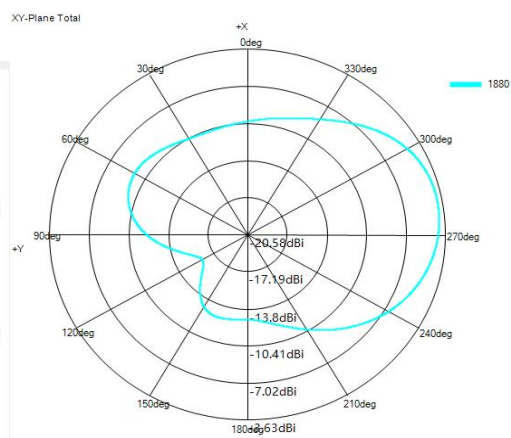
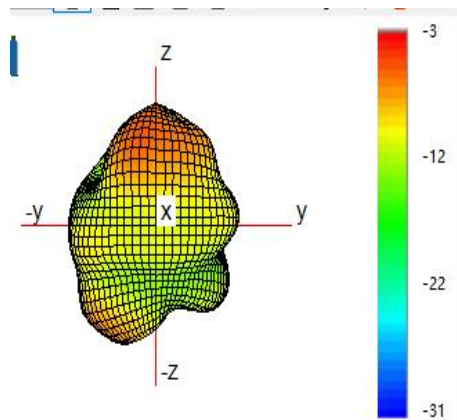
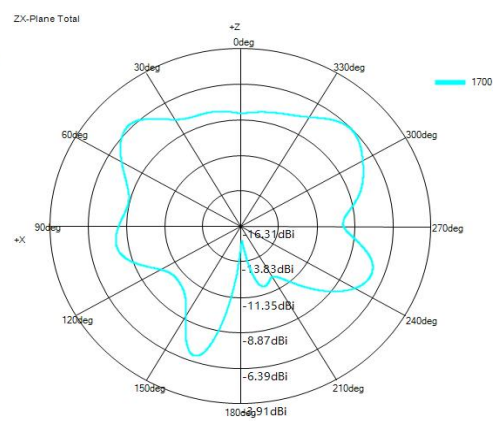
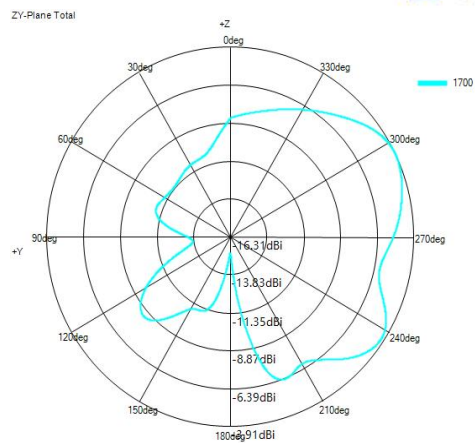
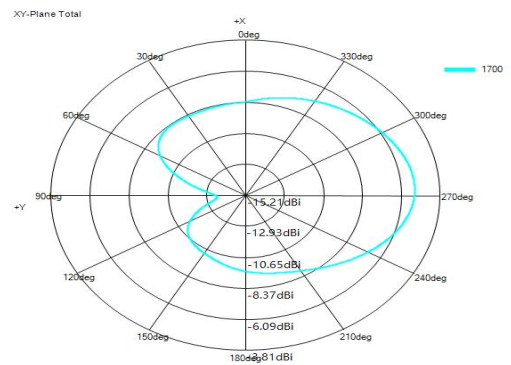
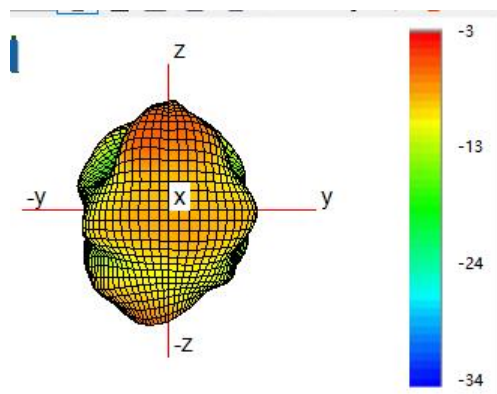
3. DIV Antenna Test Data

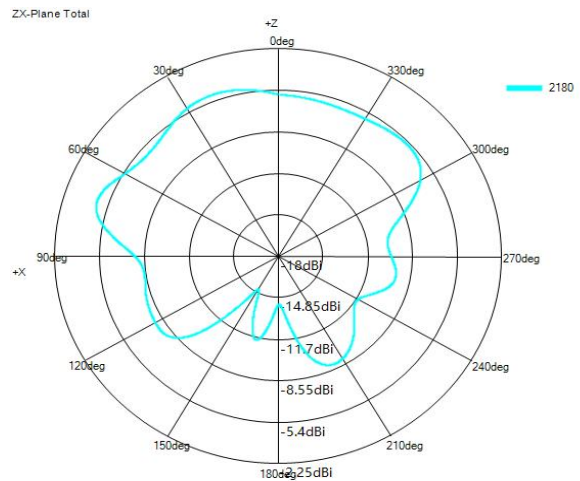
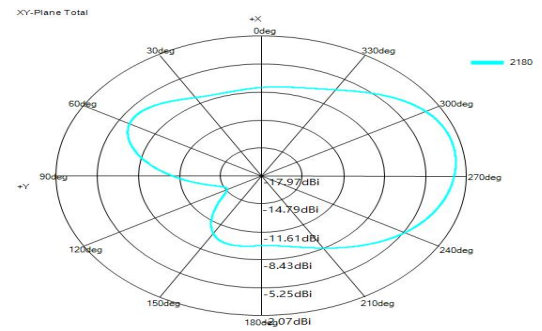
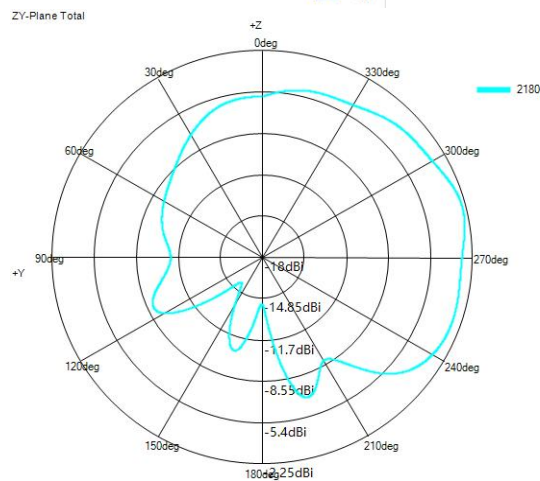
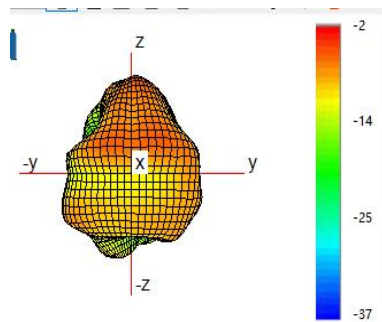
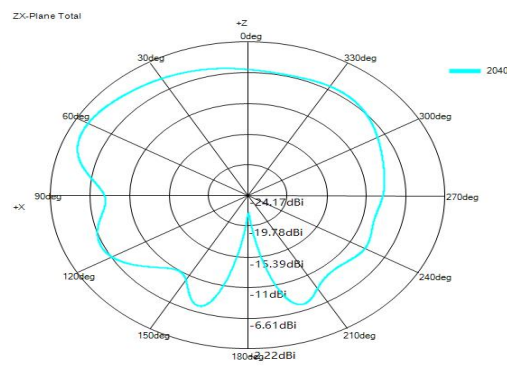
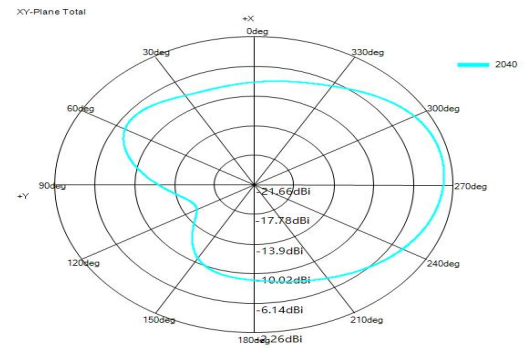
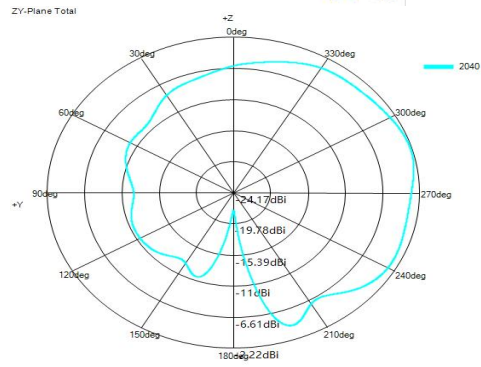
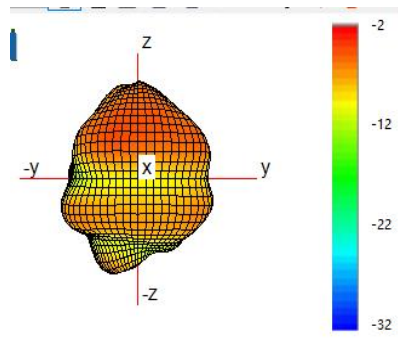


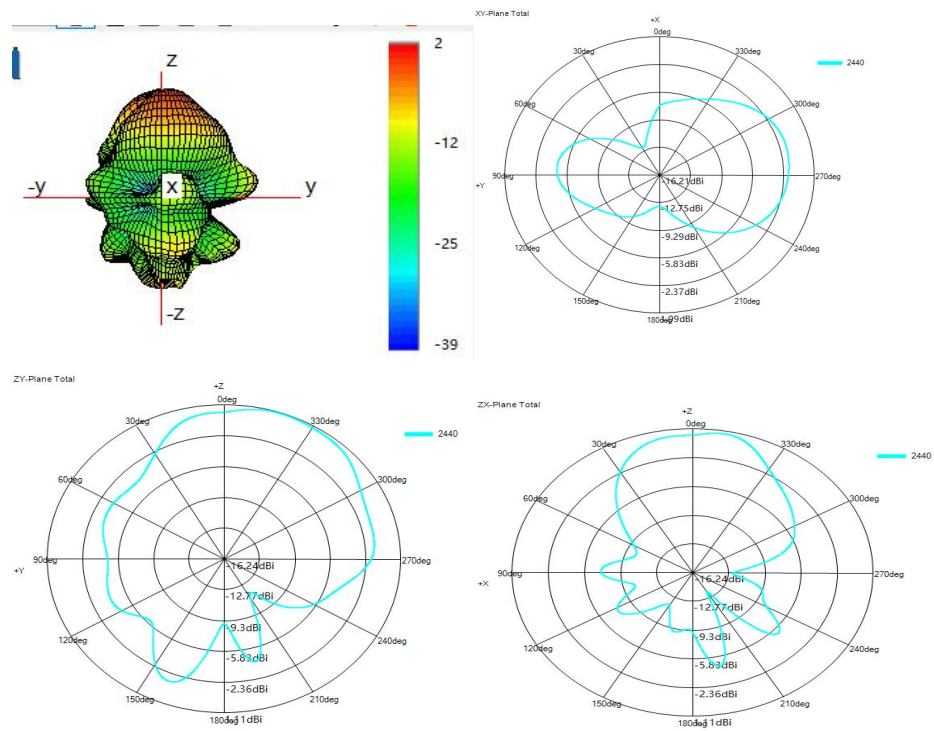
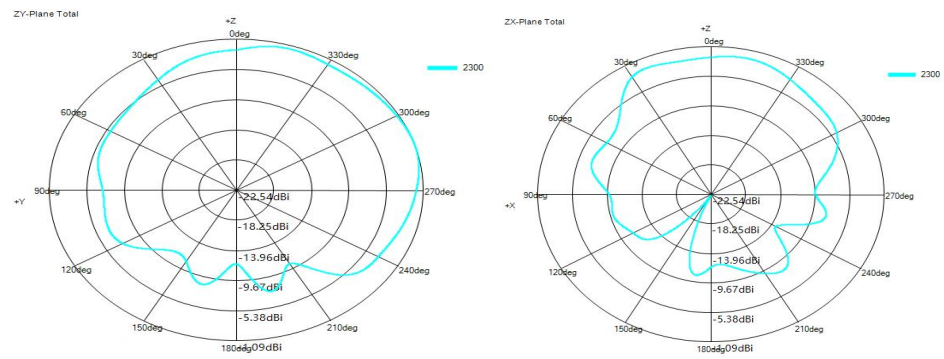
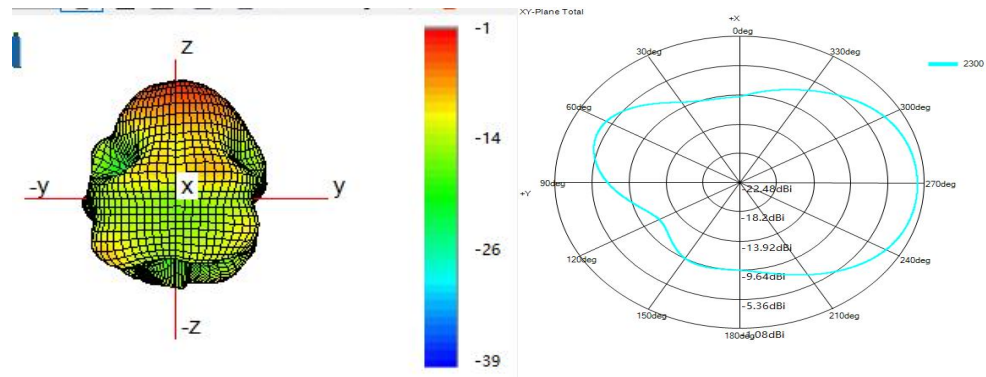
3.1 Passive Efficiency Data & Gain

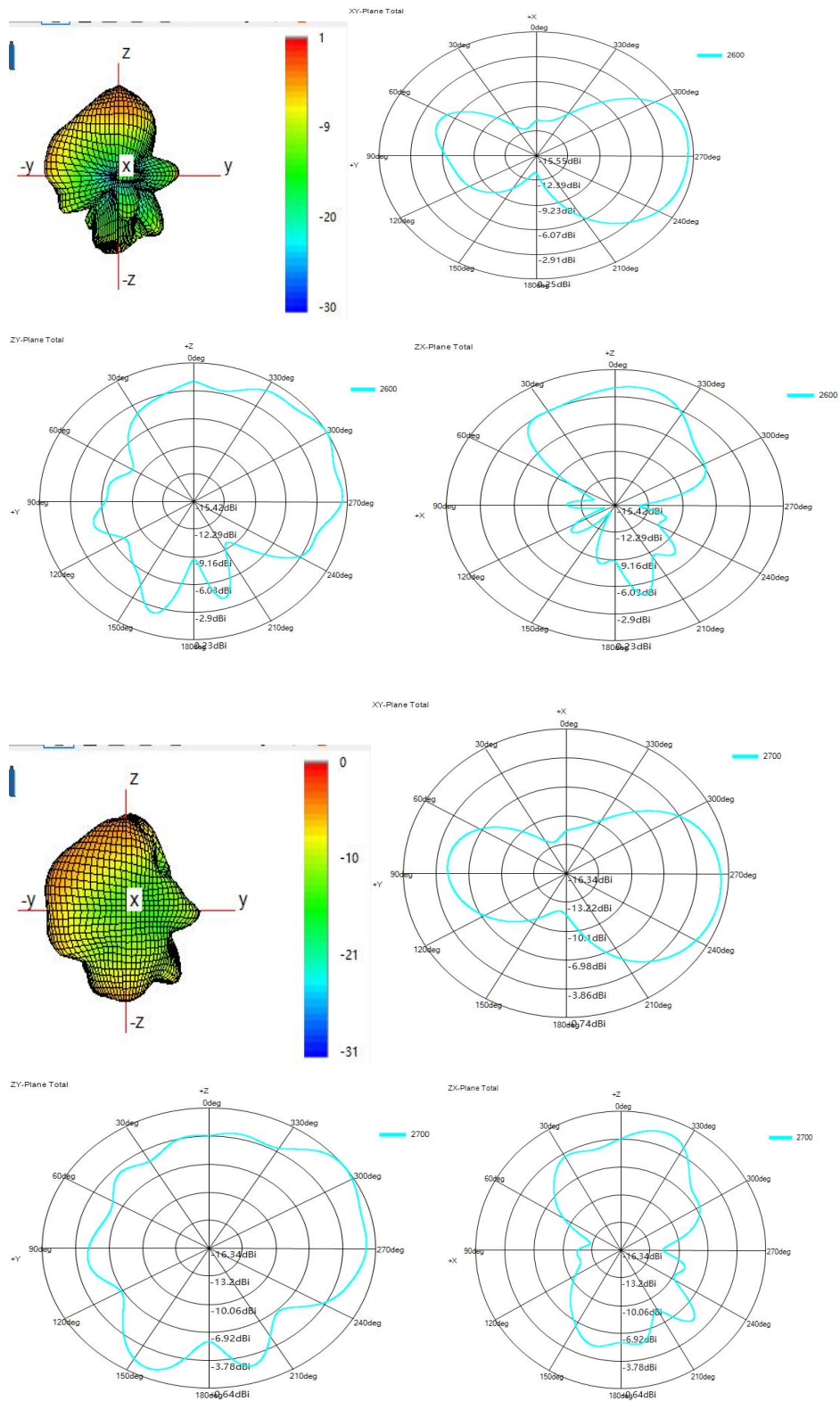
Freq (MHz)	Gain (dBi)	Efficiency(%)	Efficiency(dB)
1700	-1.8	30.2	-5.2
1720	-1.5	30.7	-5.1
1740	-1.3	31.8	-5.0
1760	-1.3	31.4	-5.0
1780	-1.4	31.1	-5.1
1800	-1.3	31.5	-5.0
1820	-1.3	32.6	-4.9
1840	-1.4	33.1	-4.8
1860	-1.3	34.2	-4.7
1880	-1.2	35.0	-4.6
1900	-0.6	37.6	-4.3
1920	-0.3	38.8	-4.1
1940	0.0	38.9	-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

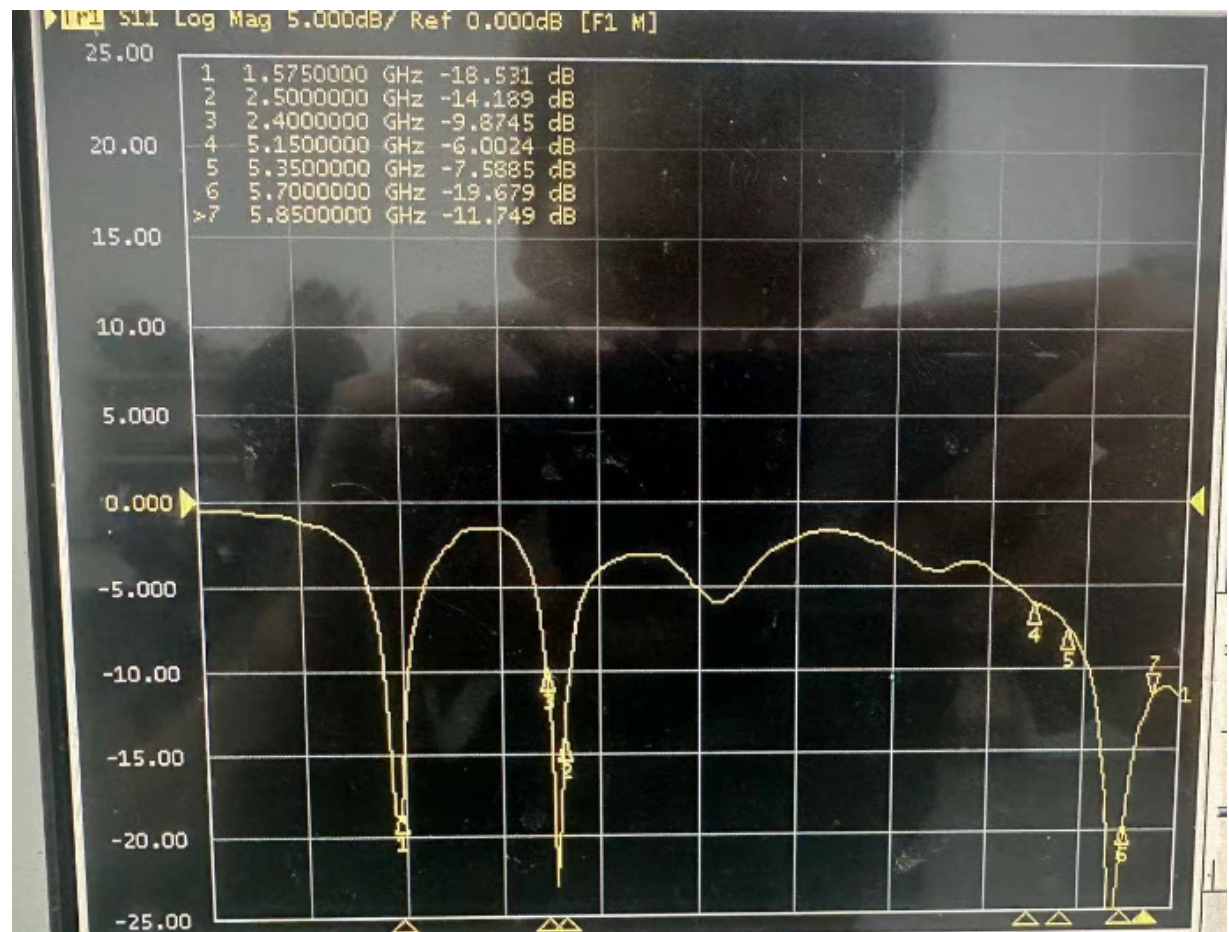








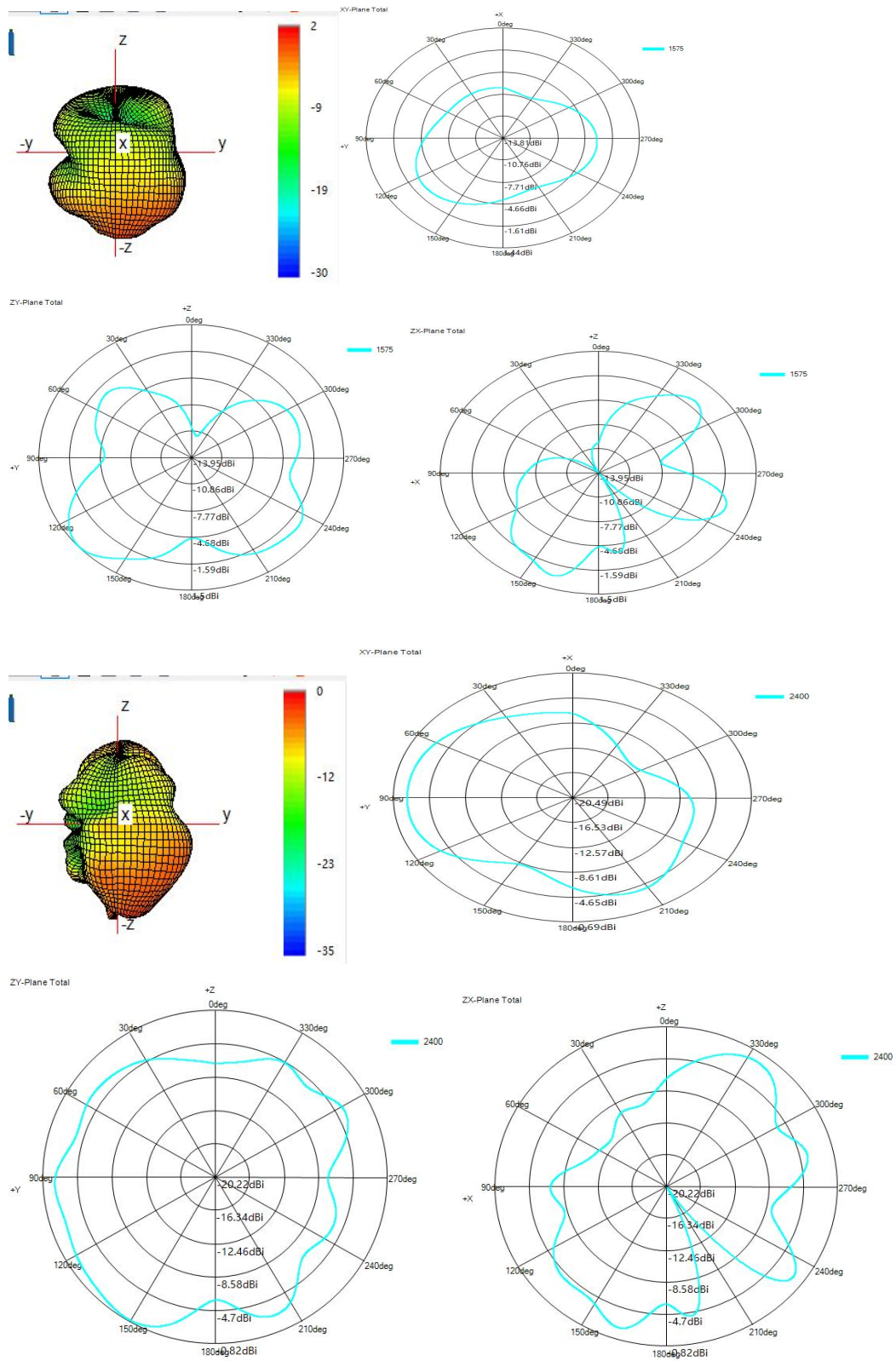
4. Wi-Fi BT GPS Antenna Test Data

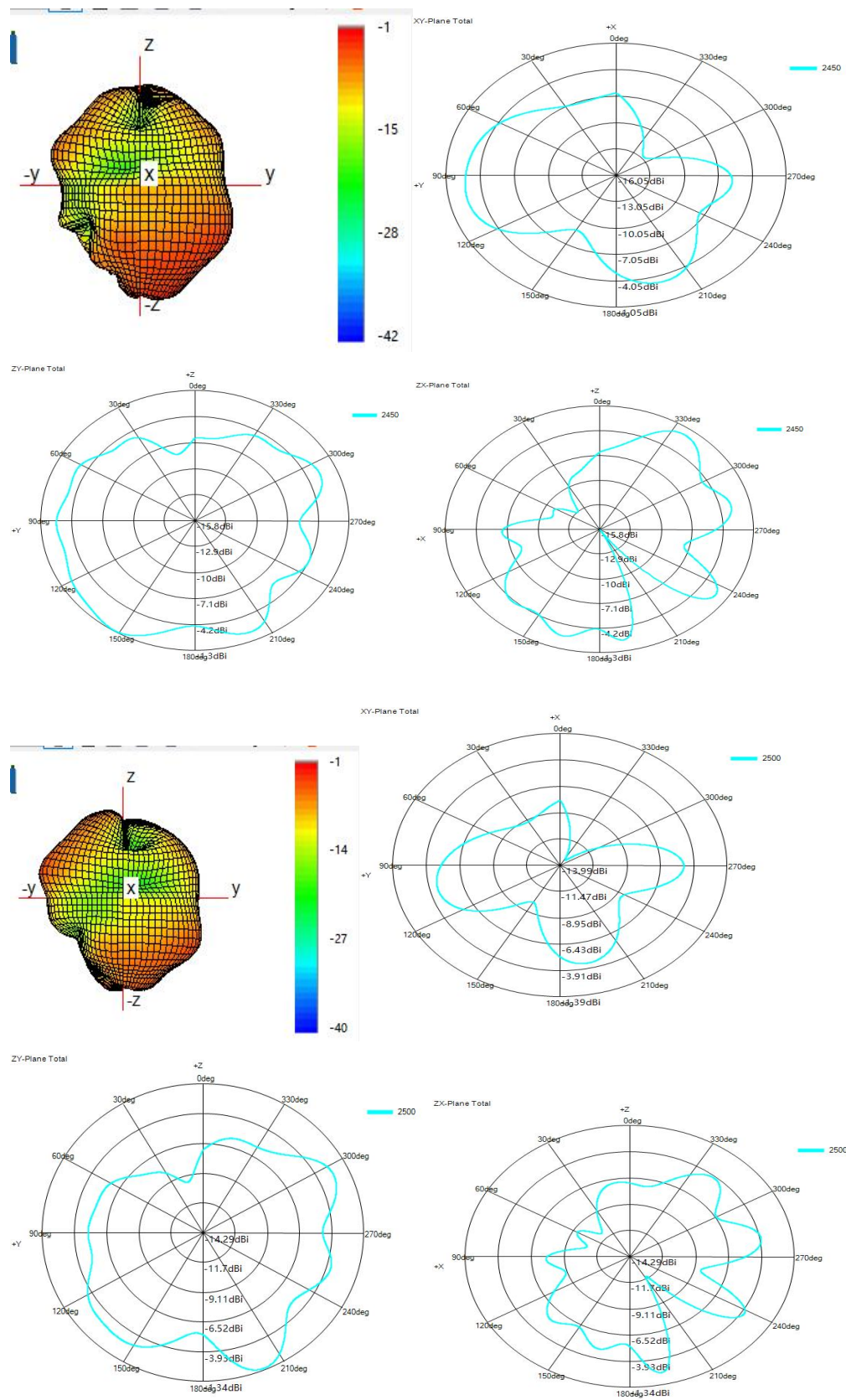


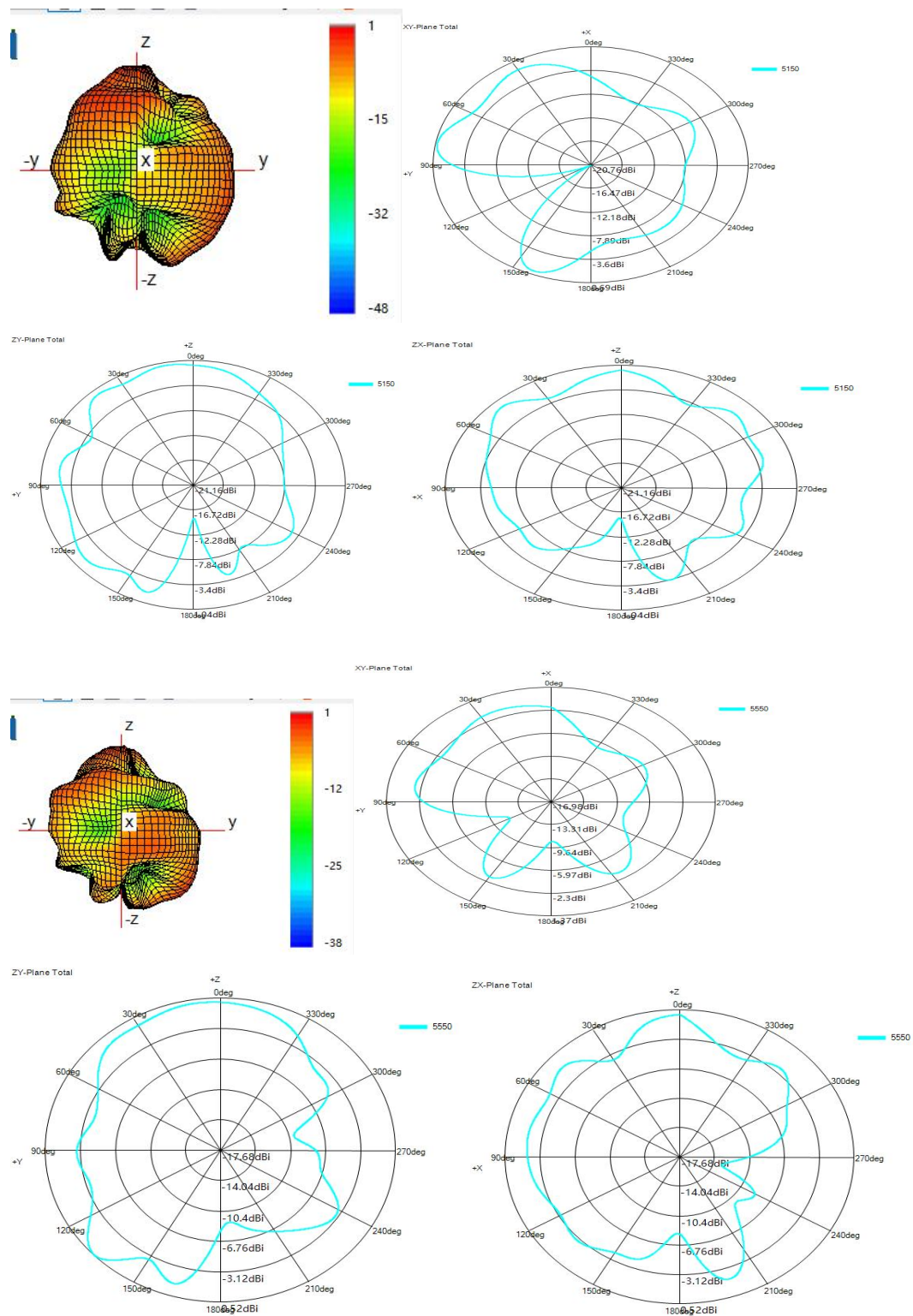
4.1 three in one antenna Passive Efficiency Data & Gain

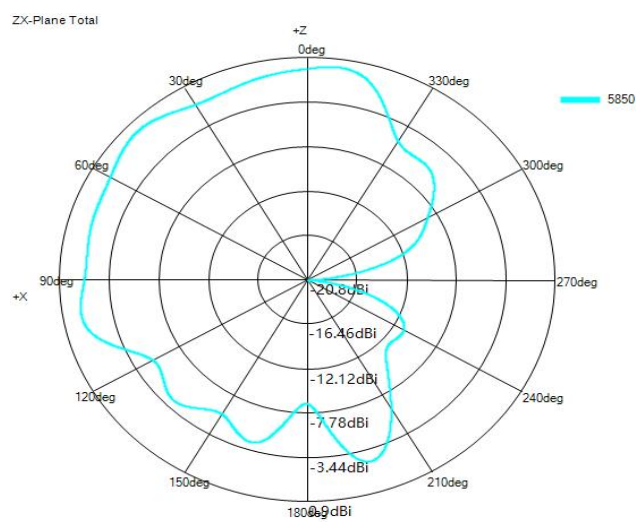
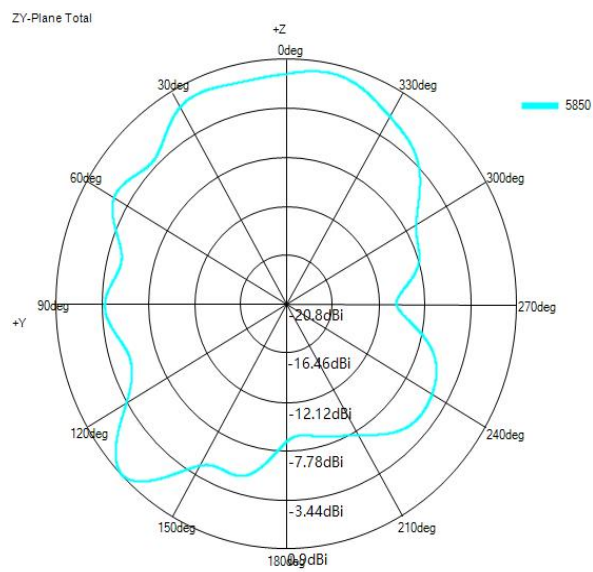
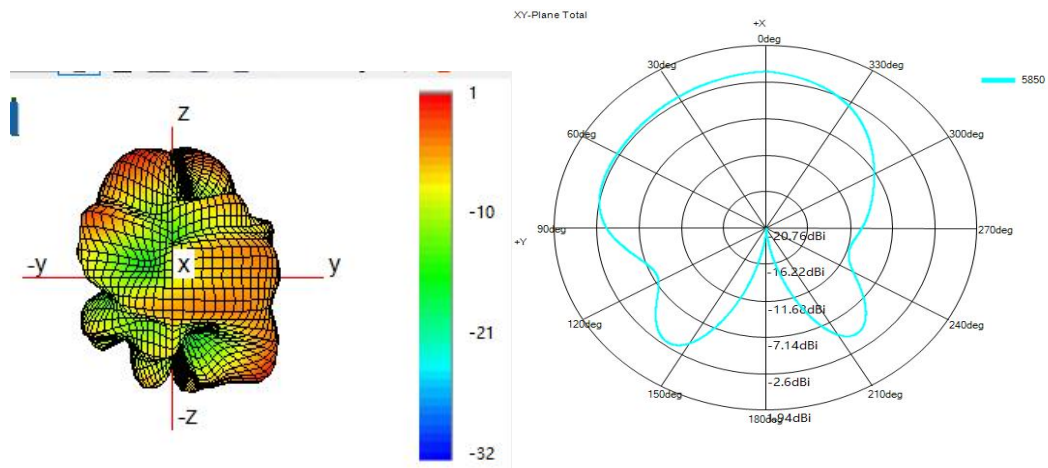
Freq (MHz)	Gain (dBi)	Efficiency(%)	Efficiency(dB)
1550	1.3	47.5	-3.2
1555	1.4	47.1	-3.3
1560	1.4	46.8	-3.3
1565	1.4	46.7	-3.3
1570	1.4	46.8	-3.3
1575	1.4	46.6	-3.3
1580	1.4	45.5	-3.4
1585	1.2	44.3	-3.5
1590	1.1	43.2	-3.6
1595	1.1	42.3	-3.7
1600	1.0	41.3	-3.8
2400	-0.8	31.9	-5.0
2410	-0.8	32.6	-4.9
2420	-0.8	33.2	-4.8
2430	-1.0	32.2	-4.9
2440	-1.1	32.0	-5.0
2450	-1.3	33.3	-4.8
2460	-1.6	31.9	-5.0
2470	-2.0	32.2	-4.9
2480	-1.8	34.5	-4.6
2490	-1.6	32.8	-4.8
2500	-1.4	33.9	-4.7

Freq (MHz)	Gain (dBi)	Efficiency(%)	Efficiency(dB)
5150	0.7	42.2	-3.7
5200	1.9	54.4	-2.7
5250	2.0	55.2	-2.6
5300	0.7	40.3	-4.0
5350	0.9	40.8	-3.9
5400	1.8	57.9	-2.4
5450	0.9	48.7	-3.1
5500	-0.1	36.4	-4.4
5550	0.5	41.9	-3.8
5600	1.7	54.4	-2.7
5650	1.3	48.3	-3.2
5700	0.4	38.3	-4.2
5750	1.4	46.4	-3.3
5800	2.0	50.9	-2.9
5850	0.9	40.5	-3.9



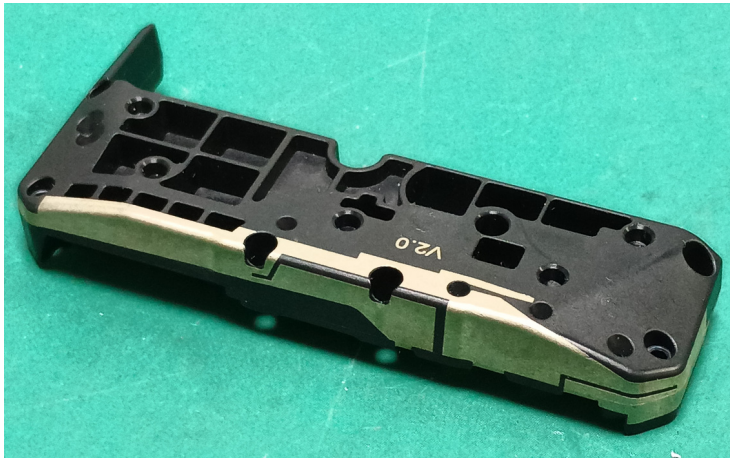




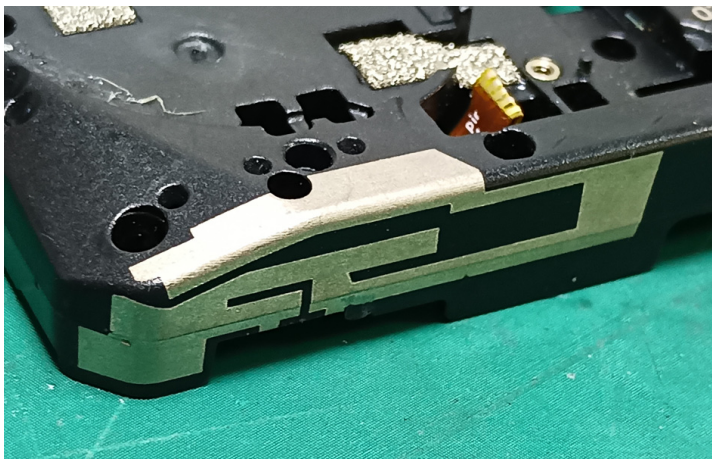


5. Antenna Photo/Size

Main Antenna



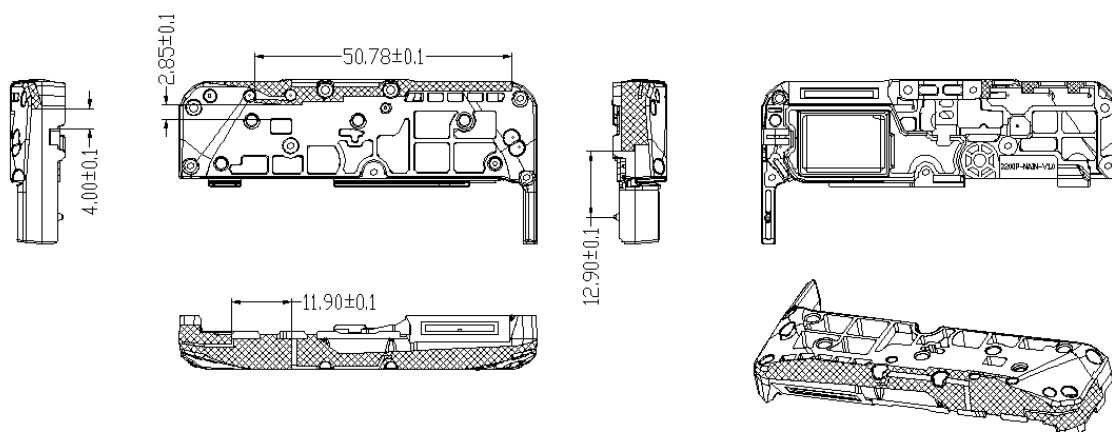
DIV Antenna



BT/Wi-Fi/GNSS ANT



Main Antenna



BT/Wi-Fi/GNSS ANT & DIV Antenna

