

1. Overview

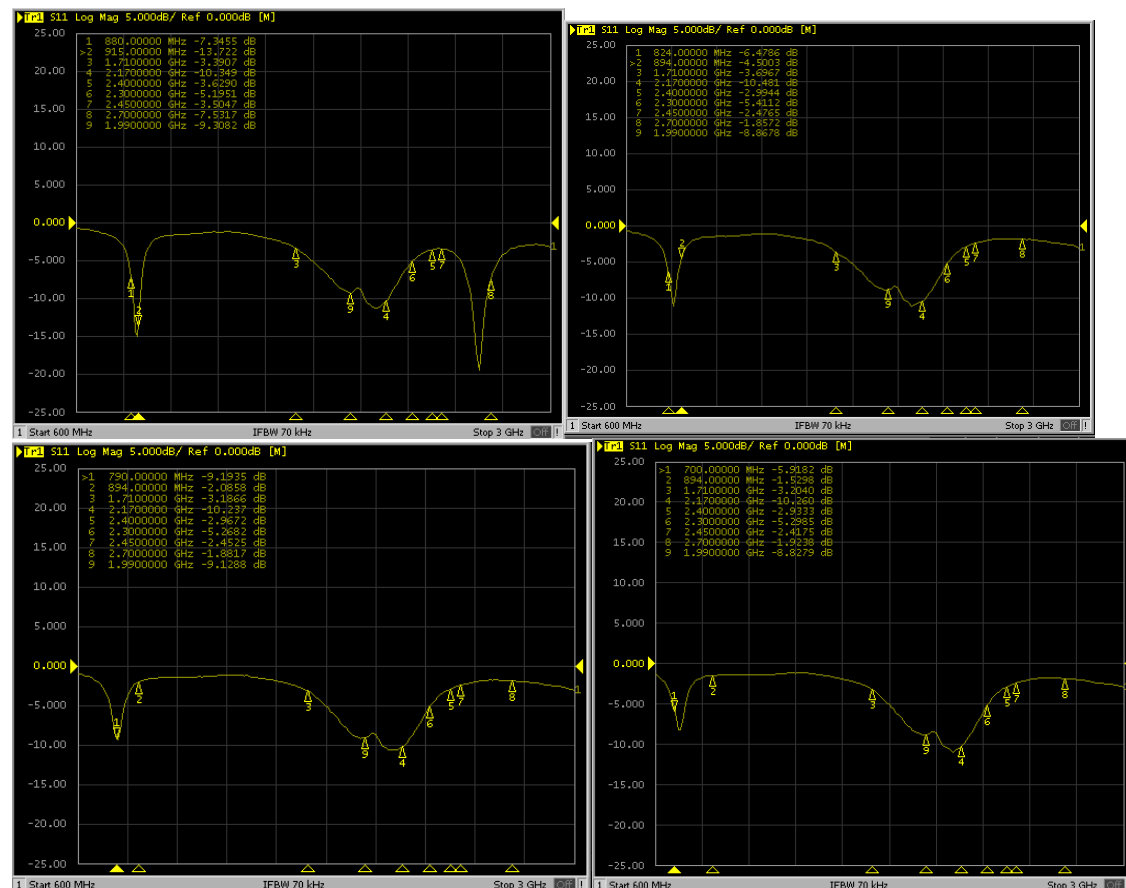
This report contains the basic parameters and performance of the Kai cheng 3200 project antenna (version v0.1)

Manufacturer: Shenzhen Dosking Technology Co., Ltd.

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

Model: Air3 MAIN ANT, Air3 DIV ANT, Air3 BT/Wi-Fi/GNSS ANT

2. low frequency antenna Test Data (main antenna)



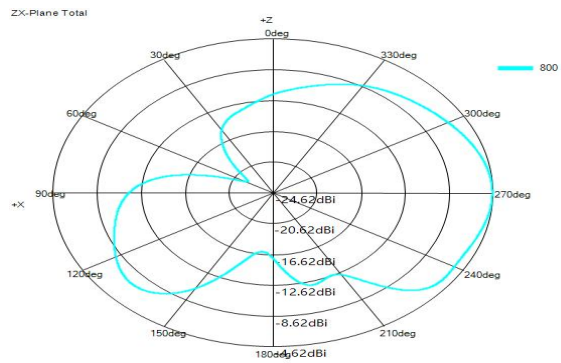
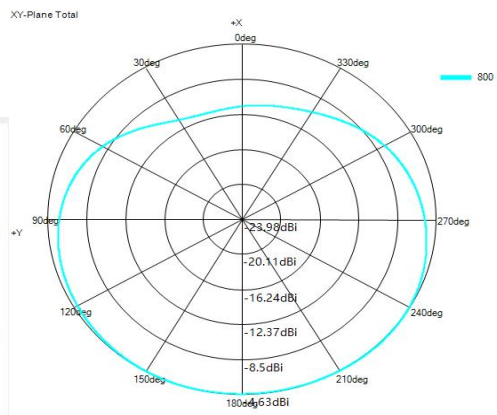
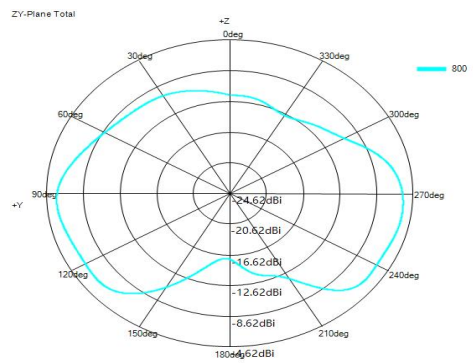
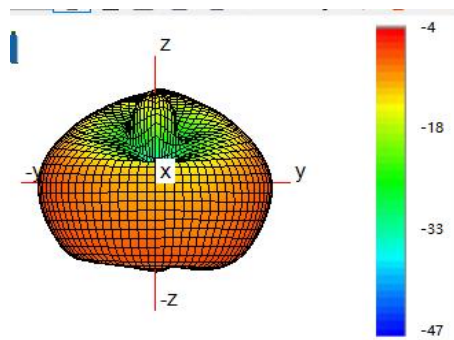
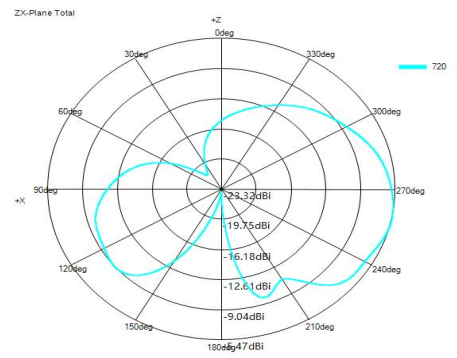
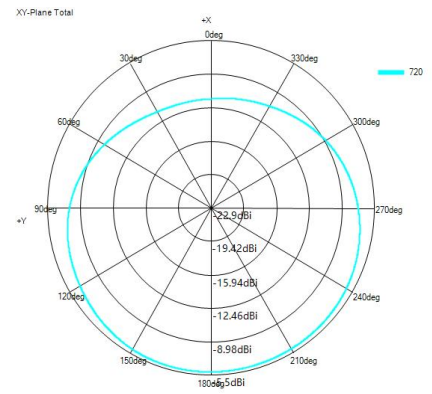
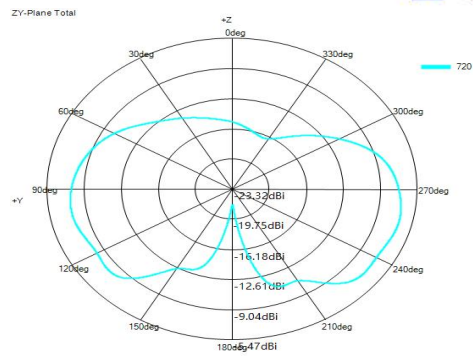
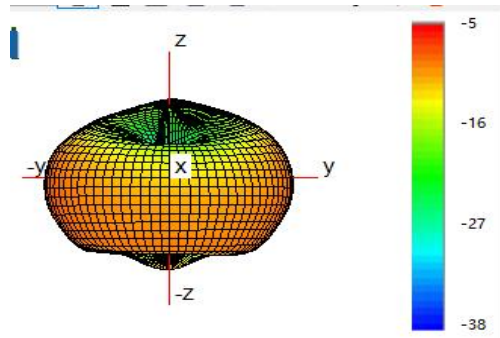
2.1 low frequency Passive Efficiency Data & Gain (main antenna)

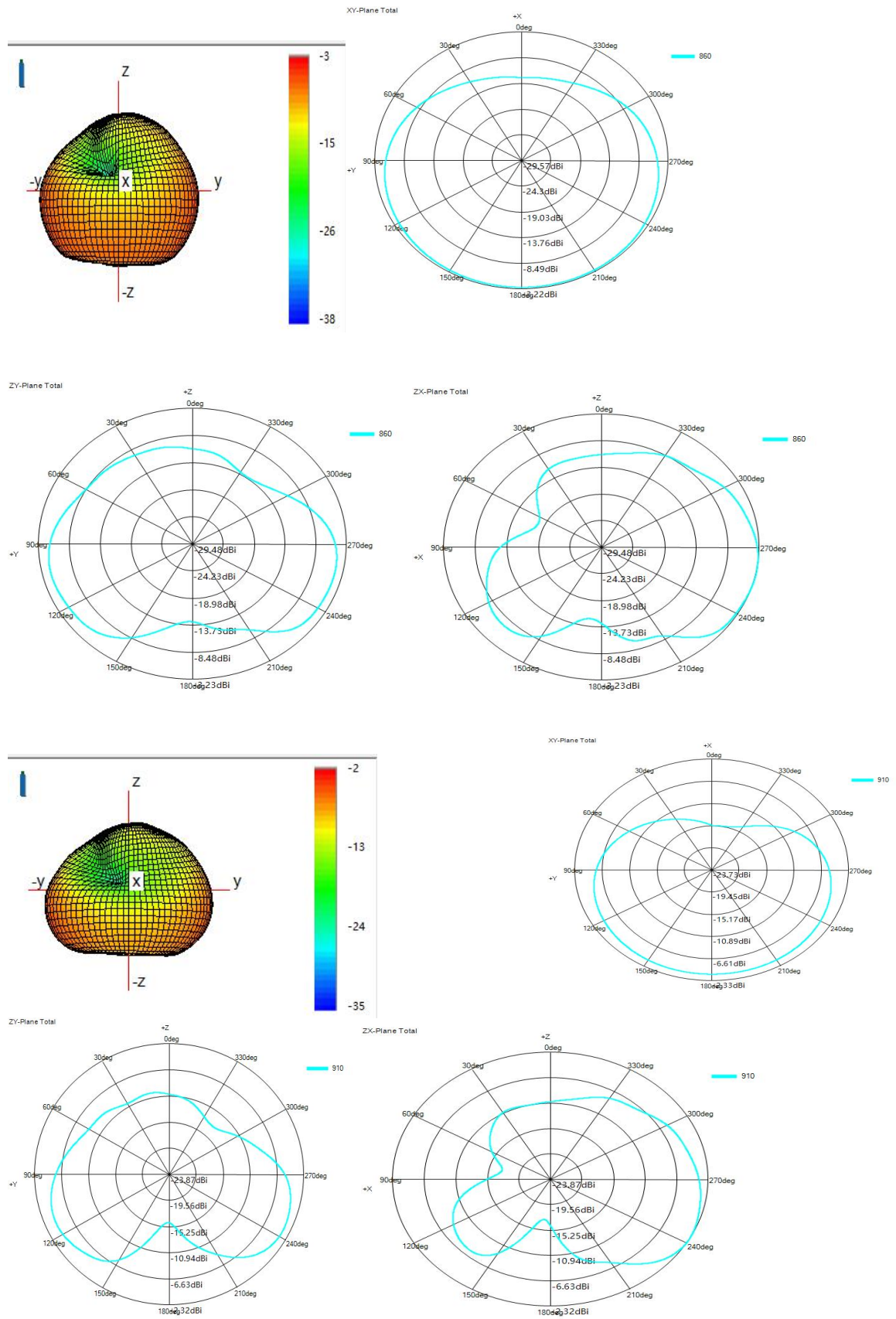
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
700	-6.24	-9.81	10.44
710	-5.67	-9.33	11.67
720	-5.51	-9.22	11.97
730	-5.84	-9.65	10.85
740	-6.90	-10.60	8.70
750	-8.00	-11.26	7.48

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
770	-7.91	-10.79	8.33
780	-6.39	-9.36	11.58
790	-5.34	-8.44	14.33
800	-4.63	-7.94	16.06
810	-4.60	-8.09	15.54
820	-4.83	-8.42	14.39
830	-5.23	-8.96	12.70
840	-6.02	-9.85	10.36
850	-6.50	-10.51	8.90
860	-7.29	-11.49	7.09

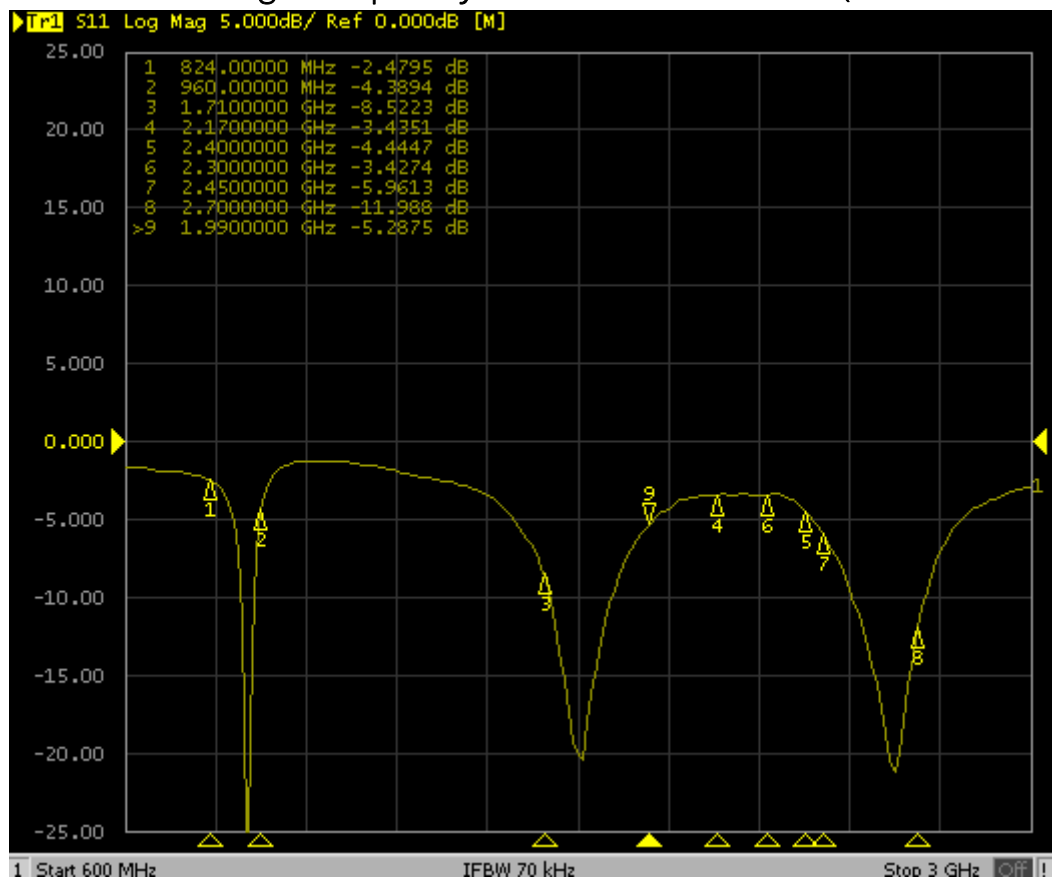
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
820	-5.67	-9.31	11.72
830	-5.05	-8.57	13.91
840	-4.20	-7.59	17.42
850	-3.52	-7.06	19.66
860	-3.25	-6.99	19.98
870	-3.50	-7.40	18.21
880	-4.00	-8.04	15.69
890	-4.80	-8.91	12.85
900	-5.28	-9.70	10.71

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
870	-5.44	-9.43	11.40
880	-4.56	-8.54	13.99
890	-3.63	-7.65	17.17
900	-2.76	-7.01	19.91
910	-2.34	-6.70	21.40
920	-2.41	-6.86	20.61
930	-2.53	-7.24	18.87
940	-3.18	-8.10	15.49
950	-3.90	-8.93	12.80
960	-4.67	-9.96	10.10





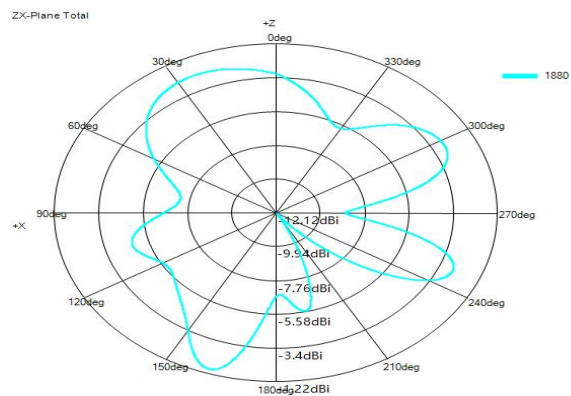
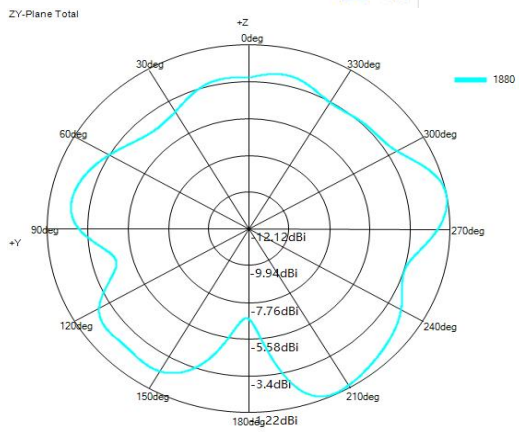
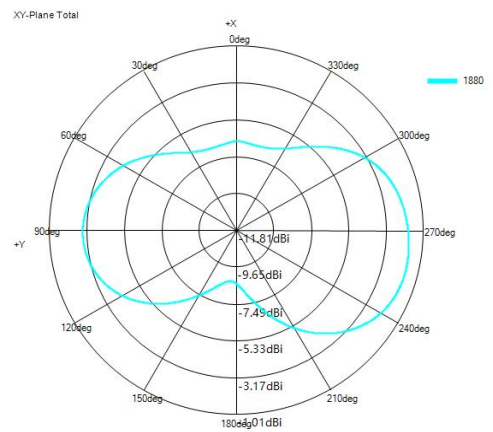
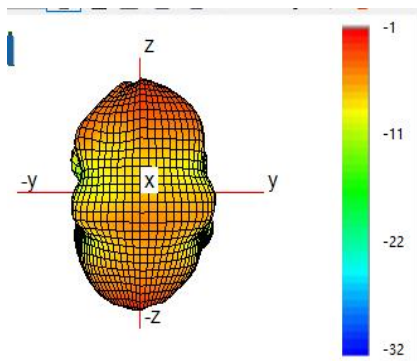
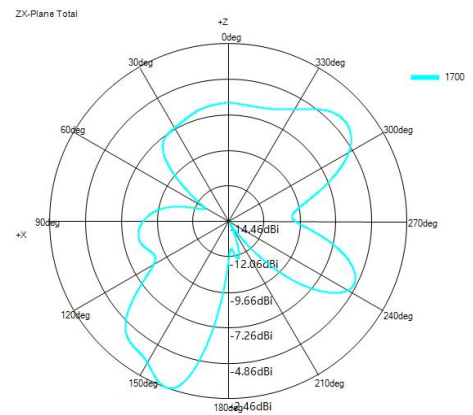
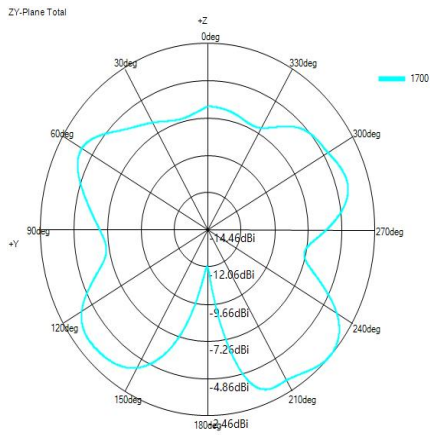
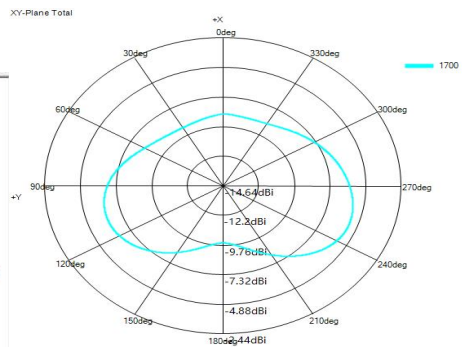
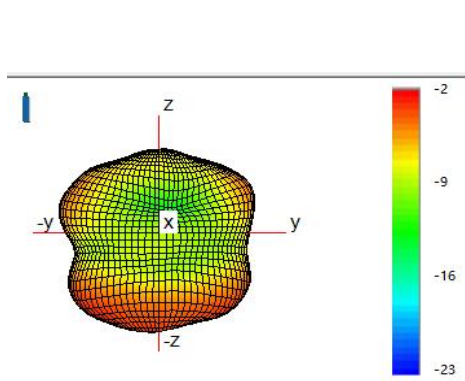
3. Medium and high frequency antenna Test Data (sub antenna)

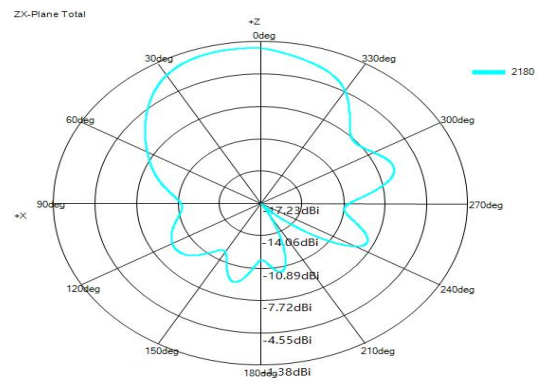
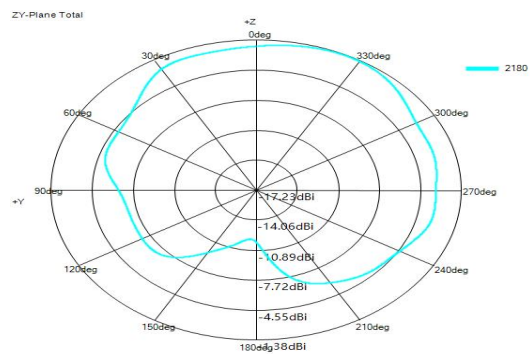
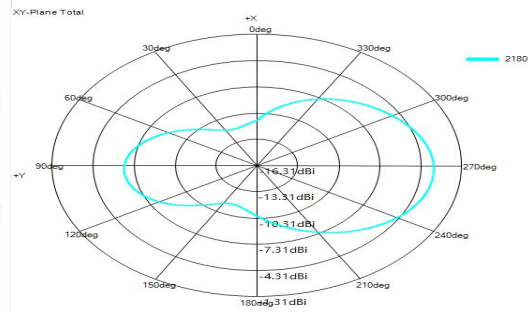
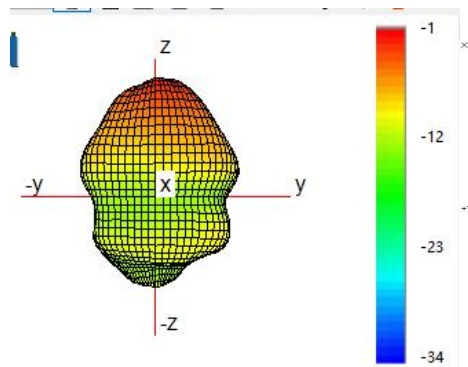
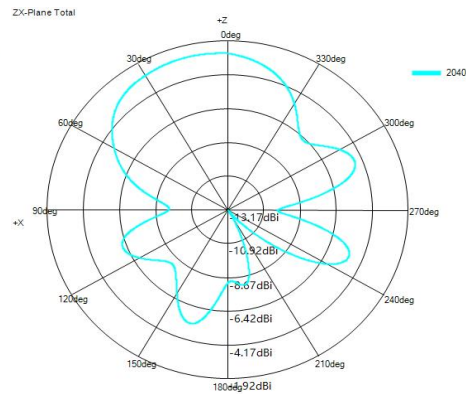
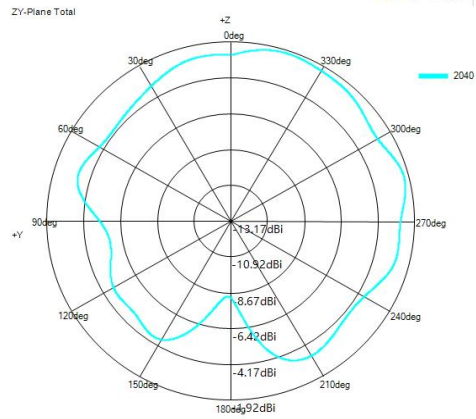
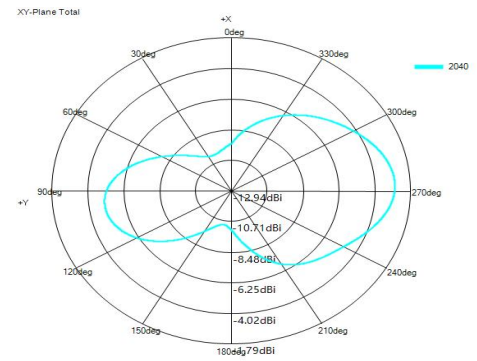
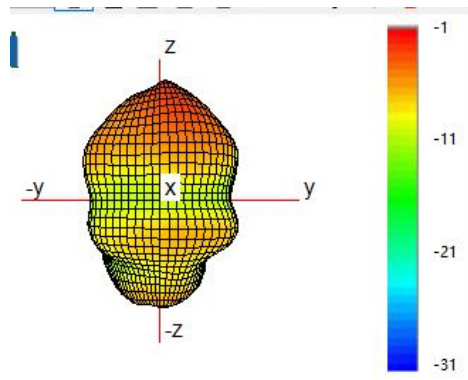


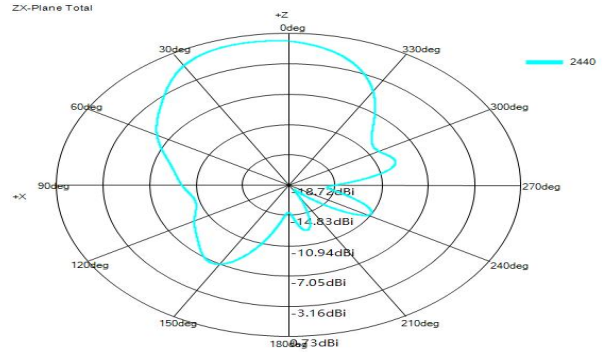
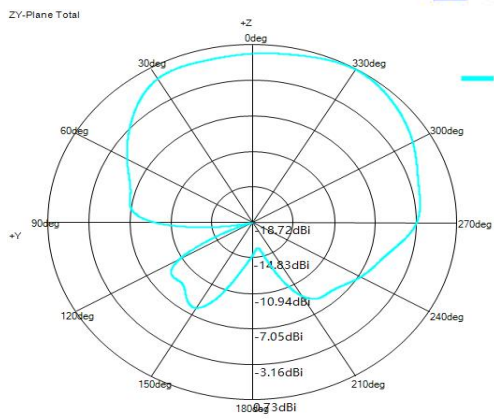
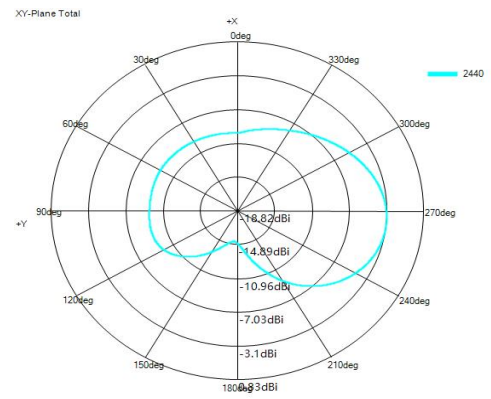
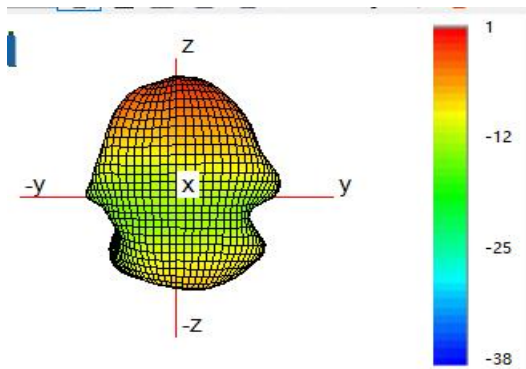
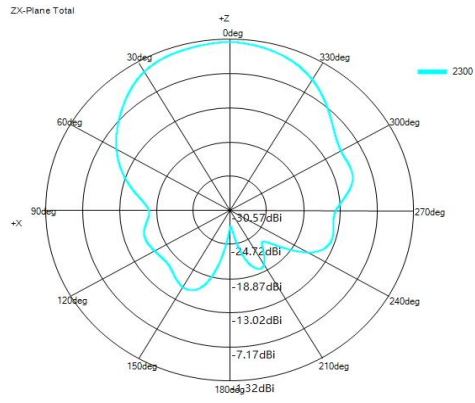
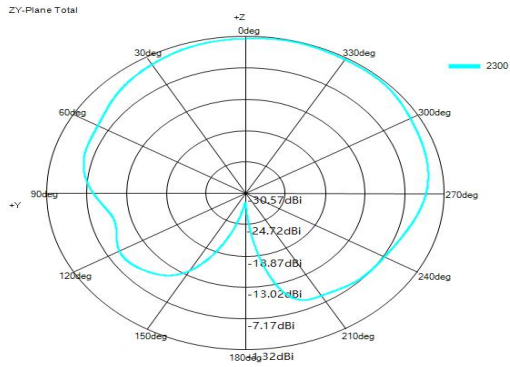
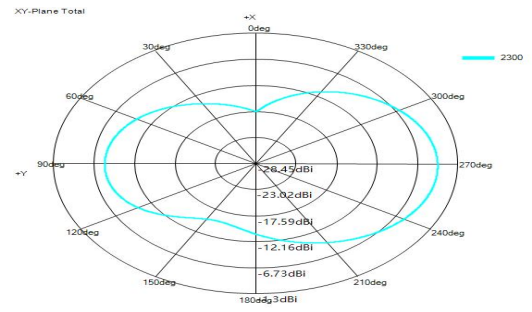
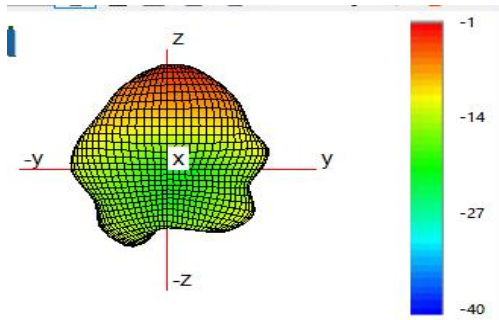
3.1 'Medium and high frequency Passive Efficiency Data & Gain (sub antenna)

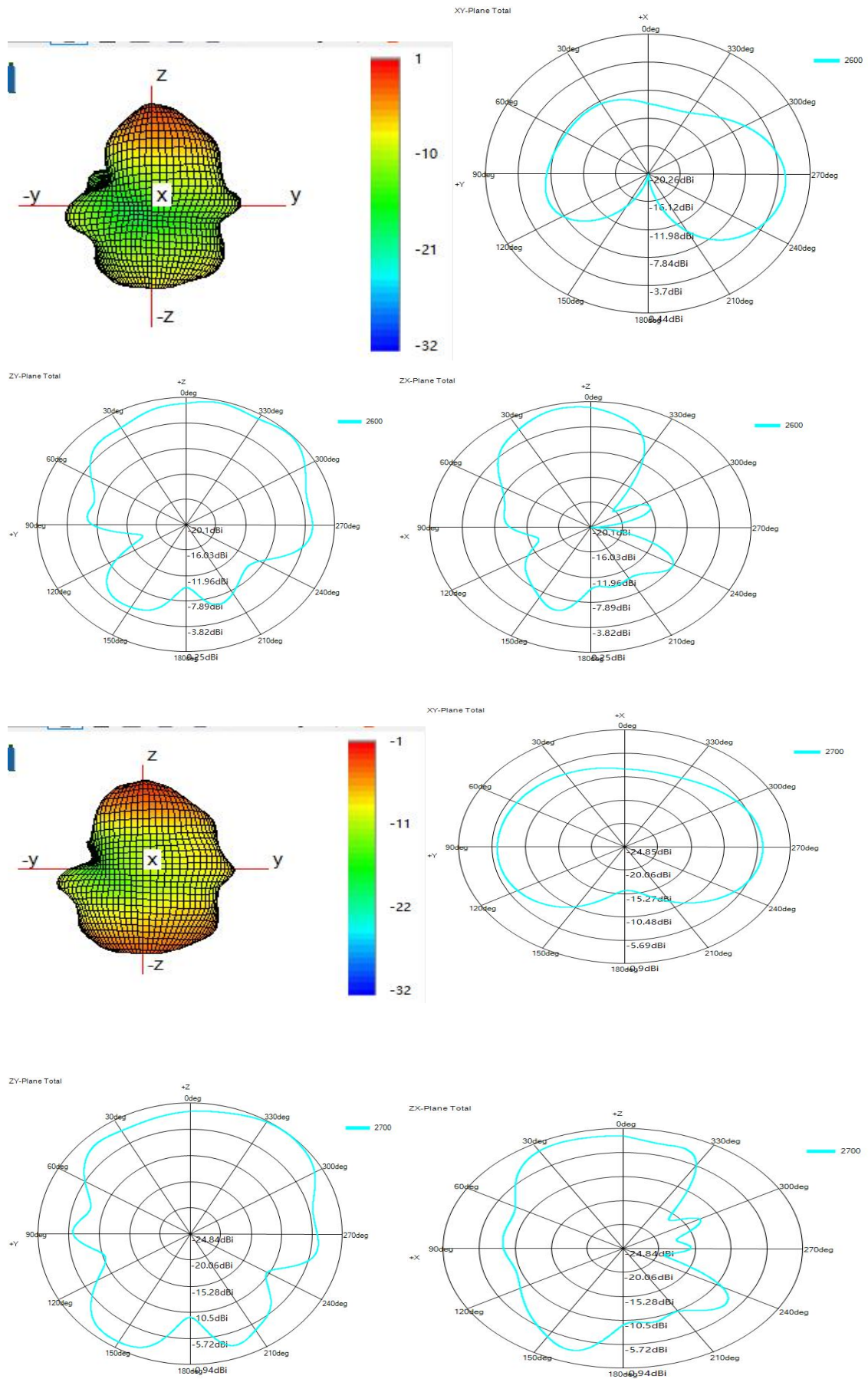
Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1700	-2.54	-5.92	25.57
1720	-1.85	-5.20	30.20
1740	-1.23	-4.48	35.65
1760	-0.95	-4.14	38.59
1780	-0.79	-3.91	40.68
1800	-0.81	-3.72	42.47
1820	-0.90	-3.62	43.47
1840	-1.00	-3.67	43.00
1860	-1.16	-3.74	42.22
1880	-1.30	-3.89	40.87
1900	-1.33	-3.85	41.23
1920	-1.52	-4.07	39.14
1940	-1.62	-4.38	36.50
1960	-1.56	-4.51	35.43
1980	-1.61	-4.73	33.62
2000	-2.03	-5.02	31.47
2020	-2.14	-5.08	31.05
2040	-1.92	-5.05	31.23
2060	-1.89	-5.09	30.98
2080	-1.85	-5.28	29.67
2100	-1.54	-5.51	28.14
2120	-1.22	-5.42	28.71
2140	-1.15	-5.52	28.03
2160	-1.46	-5.84	26.09
2180	-1.42	-5.97	25.32
2200	-0.95	-5.74	26.65

2220	-0.76	-5.72	26.79
2240	-0.64	-5.75	26.58
2260	-0.78	-6.06	24.80
2280	-0.92	-6.45	22.62
2300	-1.32	-7.18	19.13
2320	-1.49	-7.97	15.95
2340	-1.27	-8.04	15.70
2360	-0.69	-7.42	18.13
2380	-0.38	-6.99	19.99
2400	0.17	-6.33	23.31
2420	0.68	-5.84	26.04
2440	0.73	-5.67	27.11
2460	0.53	-5.71	26.86
2480	0.04	-6.01	25.04
2500	-0.03	-6.12	24.43
2520	-0.11	-6.11	24.51
2540	-0.16	-6.12	24.46
2560	-0.23	-6.12	24.43
2580	0.00	-6.01	25.07
2600	0.25	-5.89	25.74
2620	0.22	-5.81	26.24
2640	0.06	-5.90	25.69
2660	-0.21	-6.01	25.05
2680	-0.56	-6.06	24.76
2700	-1.06	-6.14	24.34

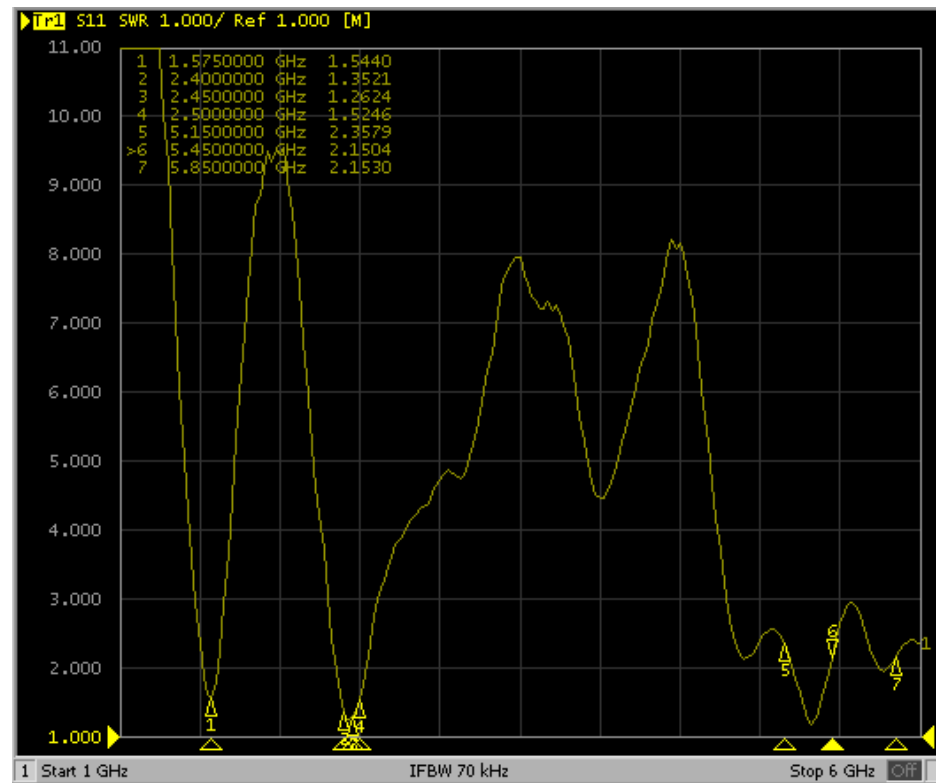








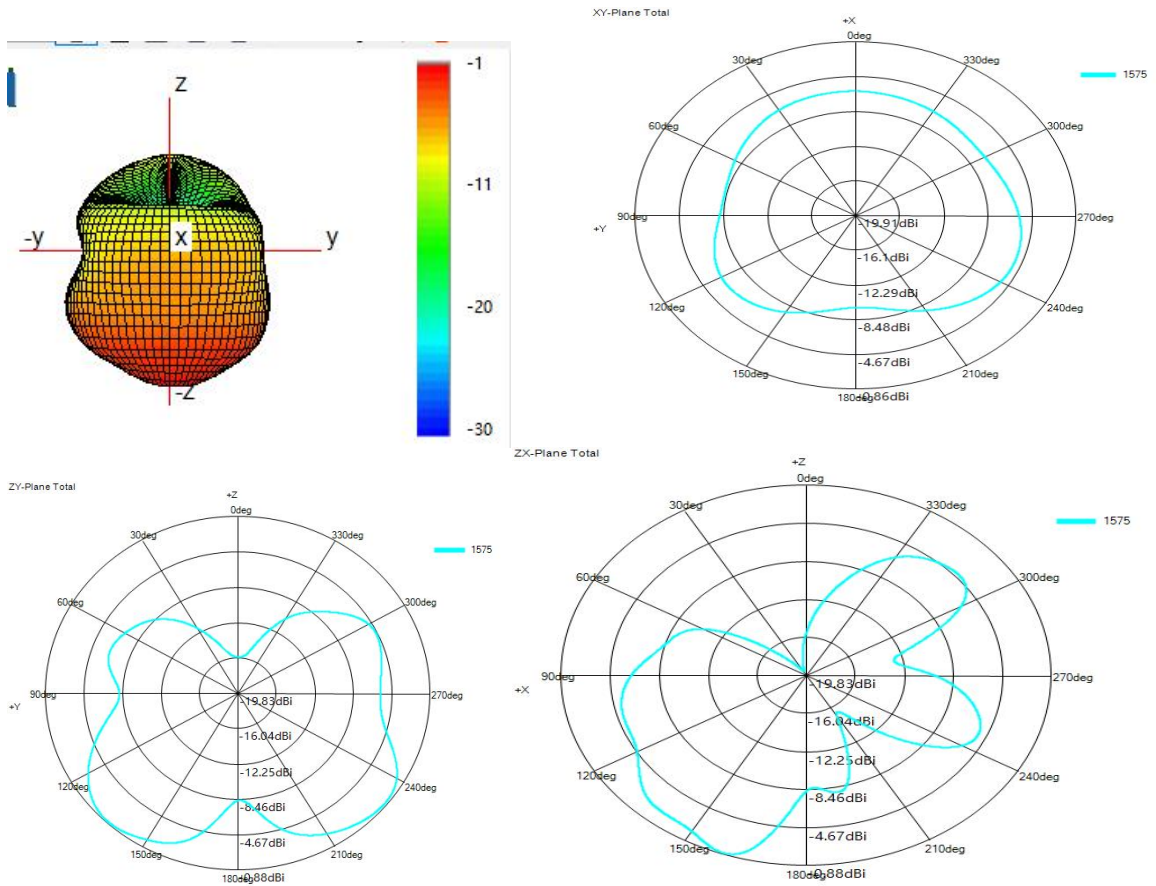
4. WiFi BT GPS antenna Test Data

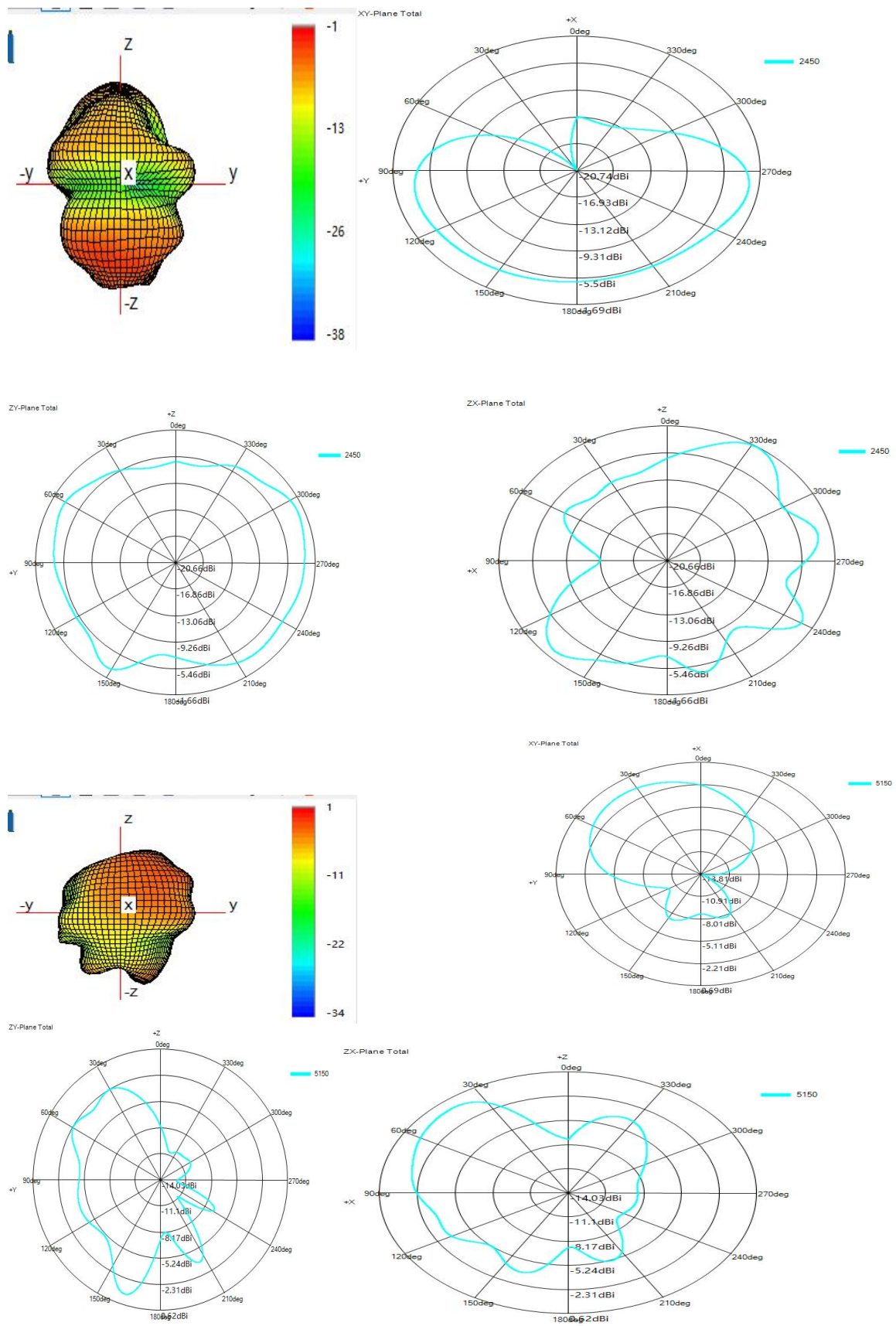


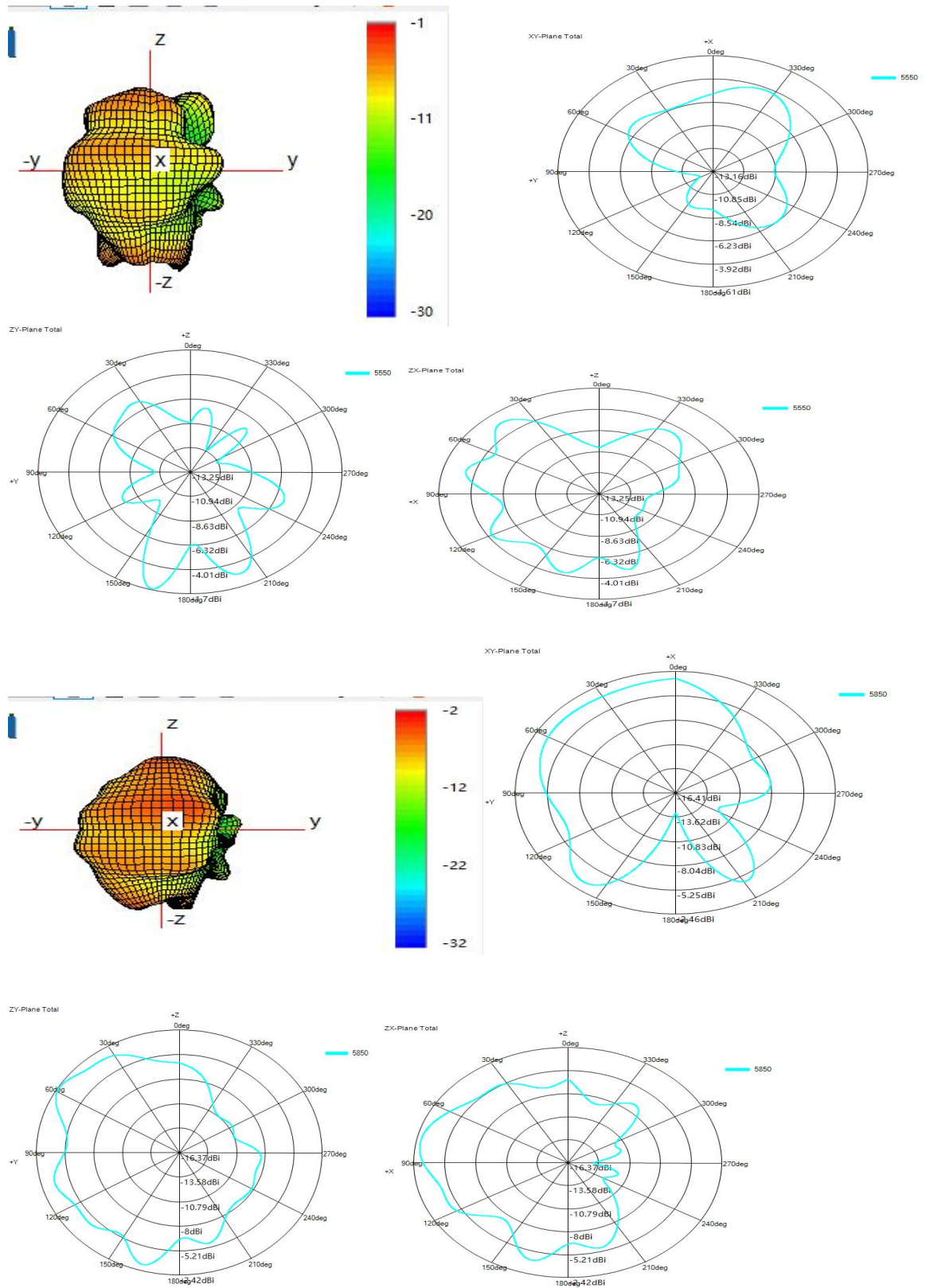
4.1 three in one antenna Passive Efficiency Data & Gain

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
1550	-1.25	-4.61	34.63
1555	-1.11	-4.72	33.76
1560	-1.01	-4.84	32.83
1565	-1.05	-4.95	32.07
1570	-1.07	-5.01	31.55
1575	-1.00	-5.08	31.08
1580	-1.03	-5.19	30.29
1585	-1.21	-5.29	29.53
1590	-1.32	-5.37	29.06
1595	-1.33	-5.44	28.62
1600	-1.45	-5.52	28.05
2400	-1.96	-4.98	31.73
2410	-1.84	-4.83	32.90
2420	-1.76	-4.76	33.43
2430	-1.84	-4.84	32.83
2440	-1.69	-4.82	32.94
2450	-1.70	-4.88	32.53
2460	-1.88	-5.03	31.43
2470	-1.93	-5.21	30.11
2480	-2.09	-5.37	29.01
2490	-2.15	-5.47	28.39
2500	-2.25	-5.58	27.70

Freq(MHz)	Gain(dBi)	Efficiency(dB)	Efficiency(%)
5150	0.60	-4.84	32.83
5200	1.67	-3.82	41.46
5250	1.59	-3.89	40.84
5300	0.10	-5.41	28.79
5350	0.15	-5.41	28.76
5400	1.59	-4.11	38.84
5450	0.26	-5.17	30.38
5500	-1.50	-6.67	21.54
5550	-1.79	-6.24	23.79
5600	-1.08	-5.15	30.54
5650	-1.70	-5.45	28.48
5700	-2.67	-6.02	24.98
5750	-1.59	-4.96	31.95
5800	-1.07	-4.70	33.85
5850	-2.48	-6.09	24.61

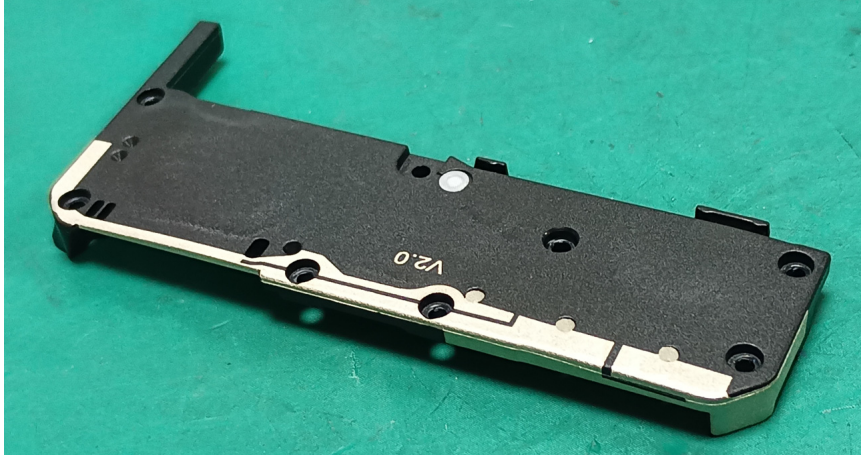




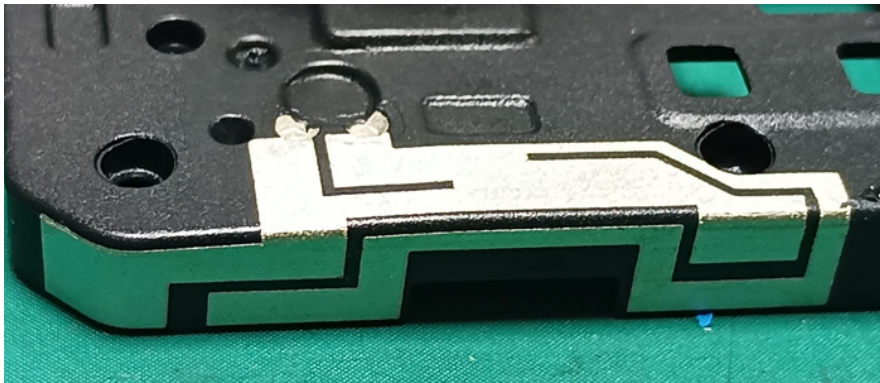


5 Antenna Photo/Size

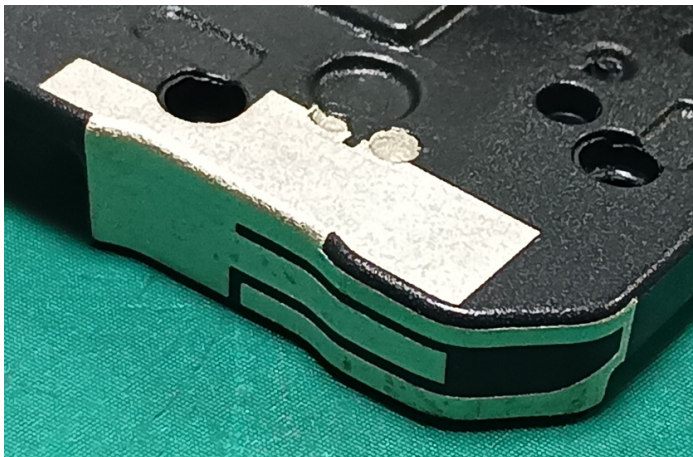
Main Antenna



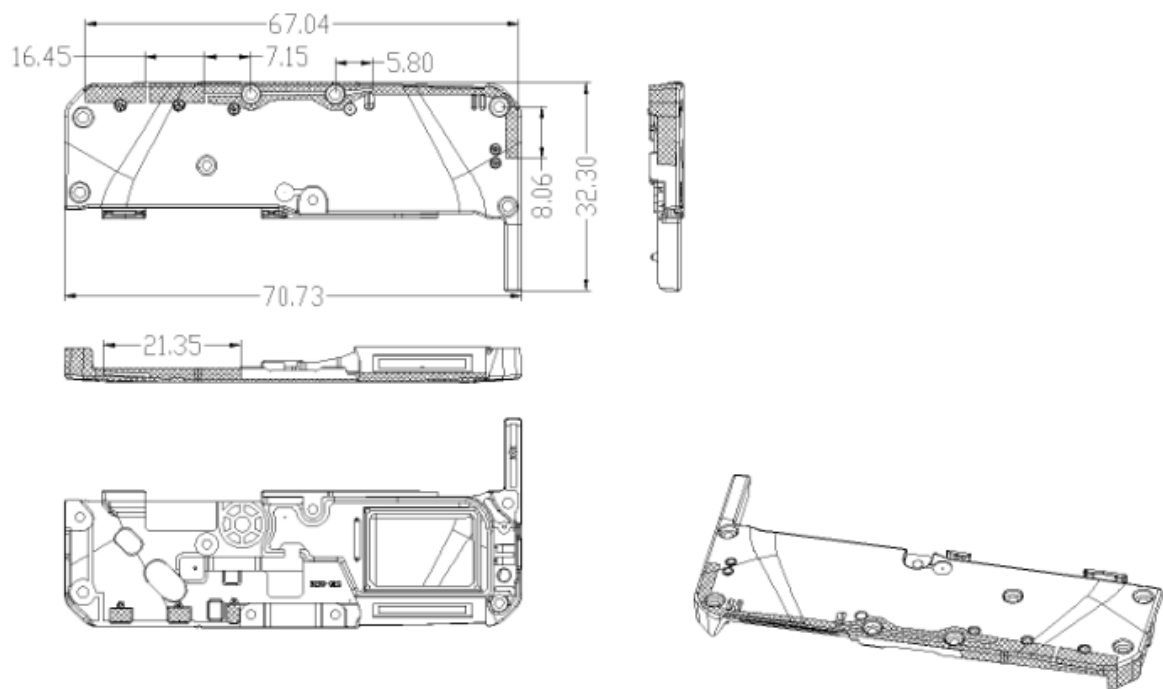
DIV Antenna



BT/Wi-Fi/GNSS ANT



Main Antenna



BT/Wi-Fi/GNSS ANT & DIV Antenna

