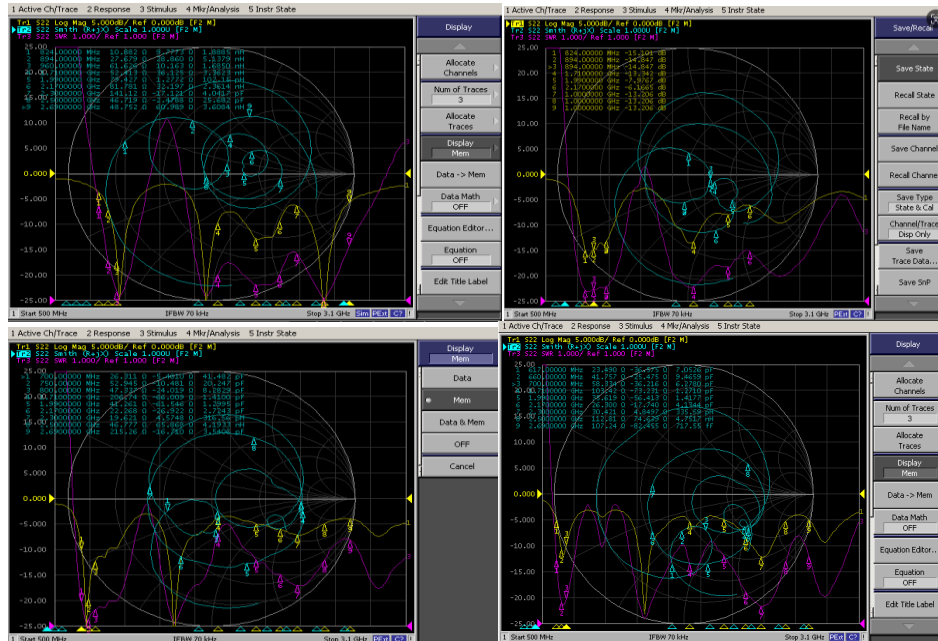


一、 Overview

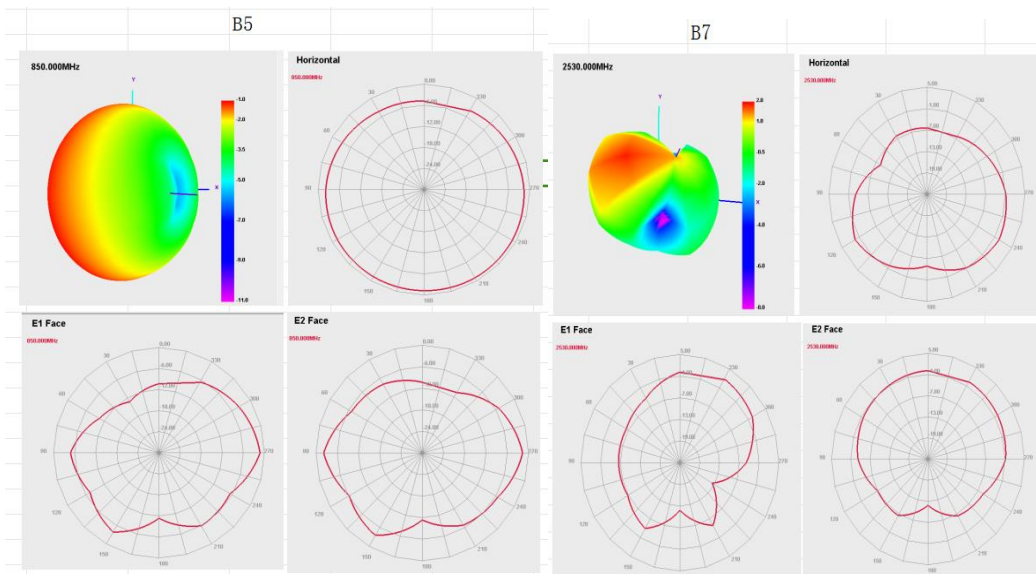
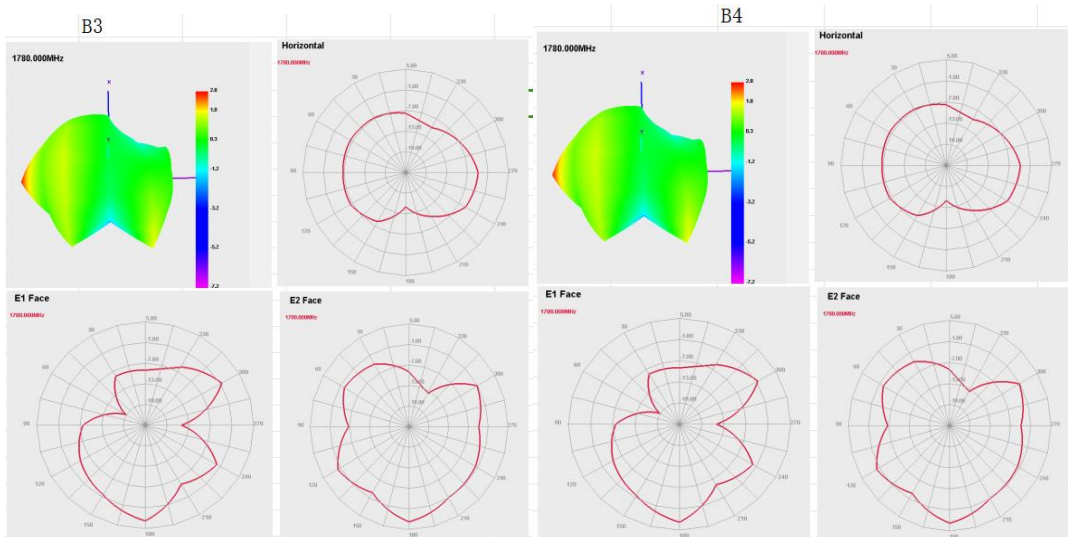
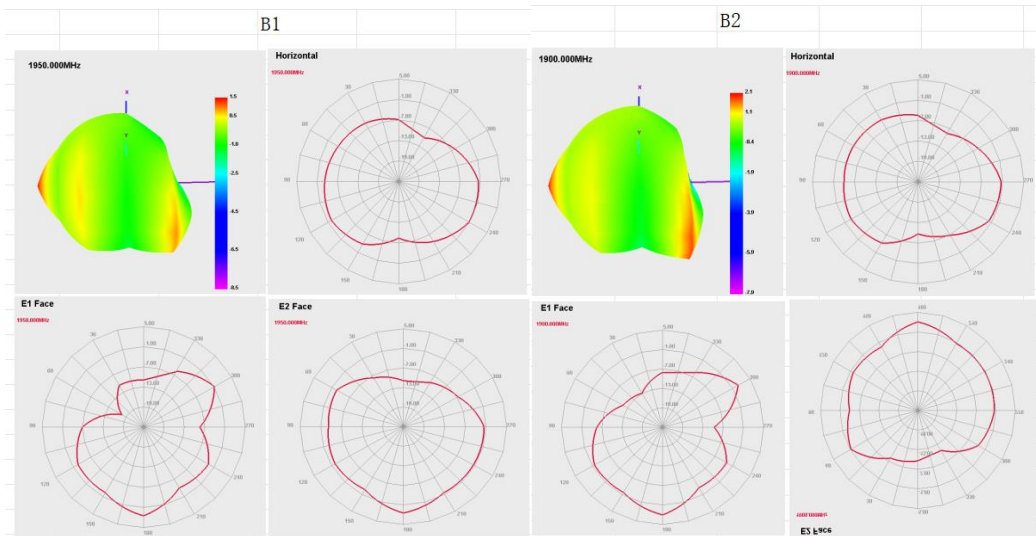
This report contains the basic parameters and performance of the Kai cheng 2406 project antenna (version v0.1)

二、 (ANT0) log Mag/SWR/smith

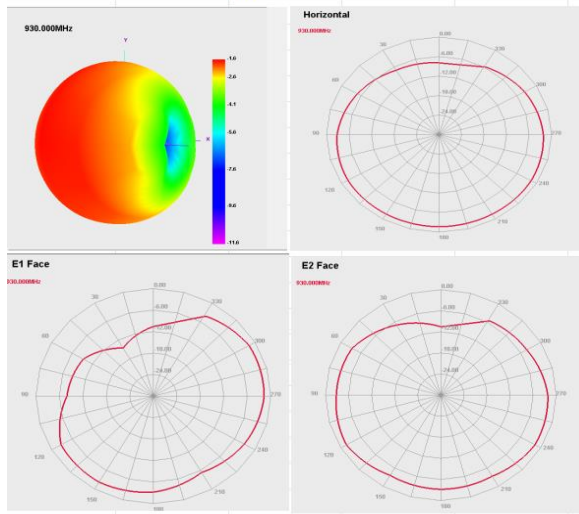


2.1 ANT0 Passive Efficiency Data & Gain

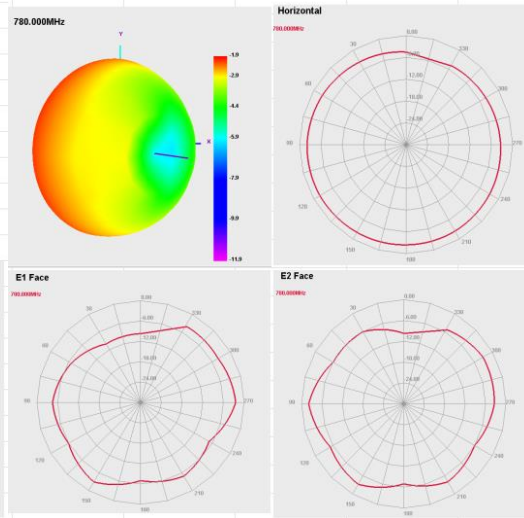
B17				B17											
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
600	5.75	-12.4	-8.36	700	22.2	-6.54	-3.86	1710	40.99	-3.88	3.95	2210	36.93	-4.11	1.03
610	7.28	-11.38	-7.74	710	26.89	-5.7	-2.16	1720	40.03	-3.99	3.45	2220	36.88	-4.33	0.72
620	9.77	-10.11	-5.96	720	29.75	-5.20	-1.54	1730	40.28	-3.95	3.27	2230	36.1	-4.65	0.43
630	13.6	-8.86	-4.25	730	29.13	-5.36	-1.15	1740	43.58	-3.61	3.05	2240	36.61	-4.48	0.48
640	16.46	-7.83	-3.49	740	32.42	-4.89	-0.78	1750	43.60	-3.6	3.08	2250	36.67	-4.36	0.51
650	18.75	-7.27	-3.56	750	38.05	-4.2	-0.21	1760	43.09	-3.66	3.09	2260	34.91	-4.67	0.59
660	24.32	-6.14	-3.19	760	38.95	-4.09	-0.05	1770	42.56	-3.71	3	2270	35.63	-4.48	0.71
670	30.29	-5.19	-1.78	770	38.26	-4.17	-0.05	1780	42.91	-3.67	2.78	2280	33.71	-4.72	0.54
680	29.62	-5.28	-1.52	780	37.55	-4.25	-1.12	1790	41.61	-3.81	2.29	2290	33.72	-4.72	0.51
690	27.72	-5.57	-1.2	790	35.03	-4.56	-0.97	1800	40.94	-3.88	1.95	2300	34.6	-4.61	0.73
700	26.73	-5.73	-1.44	800	34.74	-4.59	-0.75	1810	41.42	-3.93	1.81	2310	34.46	-4.62	0.76
								1820	39.95	-3.98	1.56	2320	34.93	-4.67	0.7
								1830	39.69	-4.01	1.59	2330	38.53	-4.14	1.09
								1840	38.78	-4.12	1.67	2340	41.38	-3.63	1.32
								1850	38.26	-4.1	1.84	2350	40	-3.98	1.85
								1860	41.7	-3.8	2.03	2360	41.6	-3.81	1.91
								1870	43.53	-3.61	2	2370	42.16	-3.75	1.95
								1880	43.81	-3.49	1.87	2380	42.37	-3.73	2.16
								1890	40.63	-3.91	1.91	2390	40.67	-3.91	2.53
								1900	40.85	-3.91	2.08	2400	44.05	-3.56	2.85
								1910	43.56	-3.61	2.13	2410	44.37	-3.53	3.03
								1920	42.26	-3.74	2.35	2420	43.31	-3.63	3.07
								1930	41.29	-3.84	2	2430	41.96	-3.77	3.07
								1940	42.43	-3.72	1.61	2440	38.79	-4	3.25
								1950	41.76	-3.79	1.49	2450	36.97	-4.32	3.3
								1960	41.28	-3.84	1.09	2460	38.05	-4.20	3.02
								1970	42.63	-3.7	0.74	2470	38.43	-4.15	2.95
								1980	46.97	-3.28	0.8	2480	38.61	-4.13	2.79
								1990	46.19	-3.35	0.61	2490	40.09	-3.97	2.94
								2000	46.3	-3.34	0.4	2500	41.39	-3.83	2.66
								2010	44.15	-3.55	0.46	2510	41.6	-3.81	2.38
								2020	41.61	-3.81	0.54	2520	40.21	-3.96	2.08
								2030	43.05	-3.66	0.77	2530	39.19	-4.07	1.03
								2040	43.49	-3.62	0.99	2540	44.02	-3.56	1.73
								2050	44.13	-3.65	0.94	2550	42.91	-3.67	1.62
								2060	45.44	-3.43	1.08	2560	41.88	-3.78	1.48
								2070	45.99	-3.37	0.82	2570	41.43	-3.83	1.42
								2080	46.61	-3.32	0.67	2580	40.03	-3.98	0.89
								2090	47.76	-3.21	0.59	2590	43.49	-3.62	0.51
								2100	47.57	-3.23	1.24	2600	41.88	-3.78	0.27
								2110	39.19	-4.07	0.57	2610	40.59	-3.92	0.03
								2120	38.88	-4.23	0.59	2620	38.74	-4.12	-0.44
								2130	37.07	-4.31	0.57	2630	35.58	-4.14	-0.89
								2140	38.95	-4.09	0.76	2640	39.23	-4.06	-1.21
								2150	39.26	-4.17	0.9	2650	36.97	-4.35	-1.33
								2160	37.56	-4.25	0.9	2660	37.23	-4.29	-1.66
								2170	35.03	-4.56	0.59	2670	36.4	-4.39	-1.61
								2180	34.74	-4.59	0.46	2680	36.24	-4.41	-1.52
								2190	35.15	-4.18	0.87	2690	33.11	-4.9	-2
								2200	39.1	-4.08	0.99	2700	31.05	-5.08	-2.11



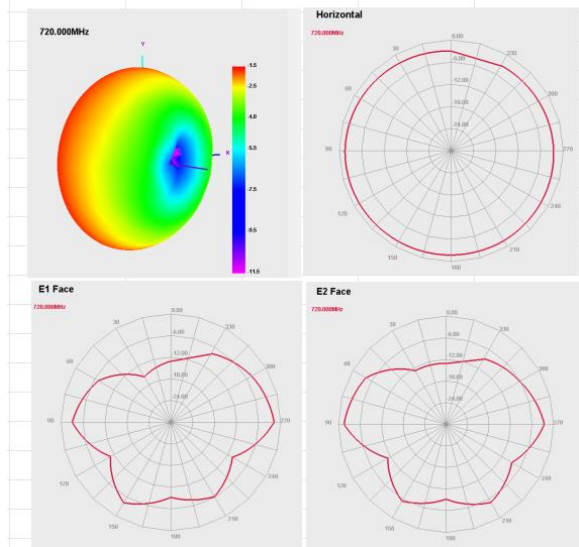
B8



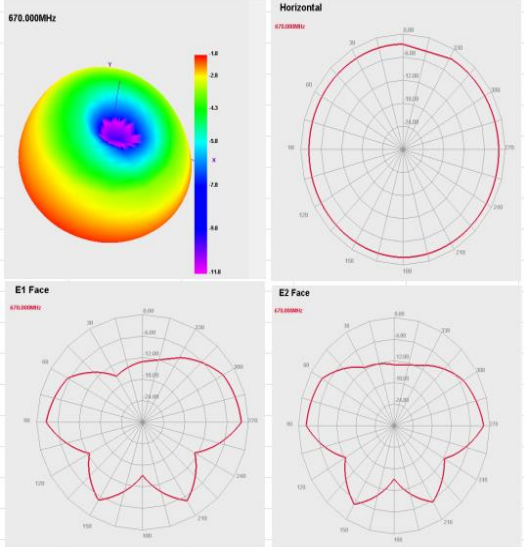
B13



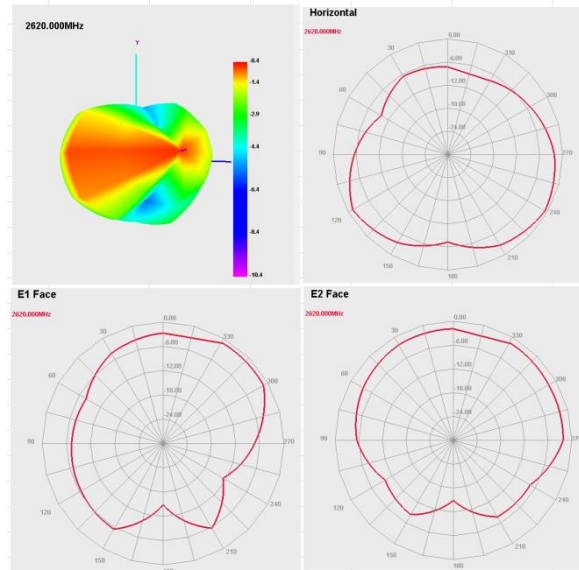
B17



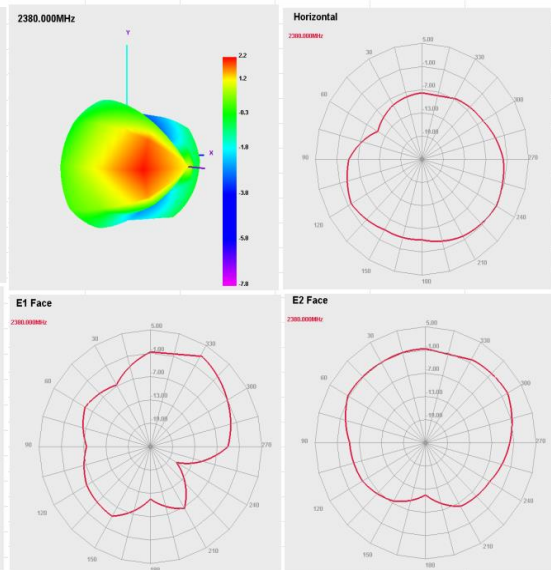
B71



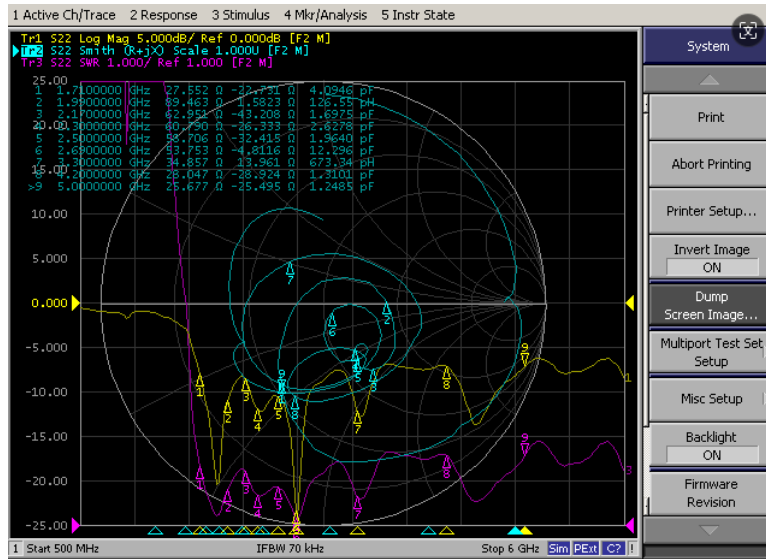
B38



B40

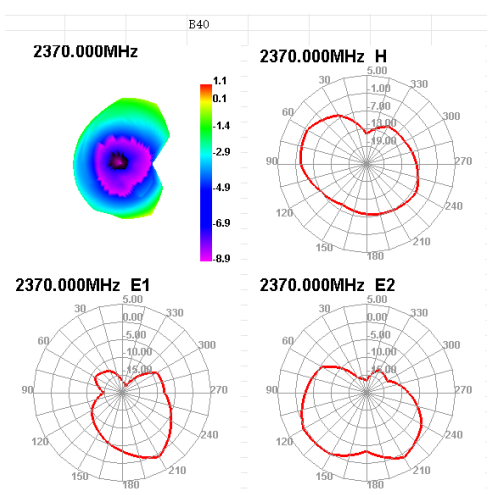
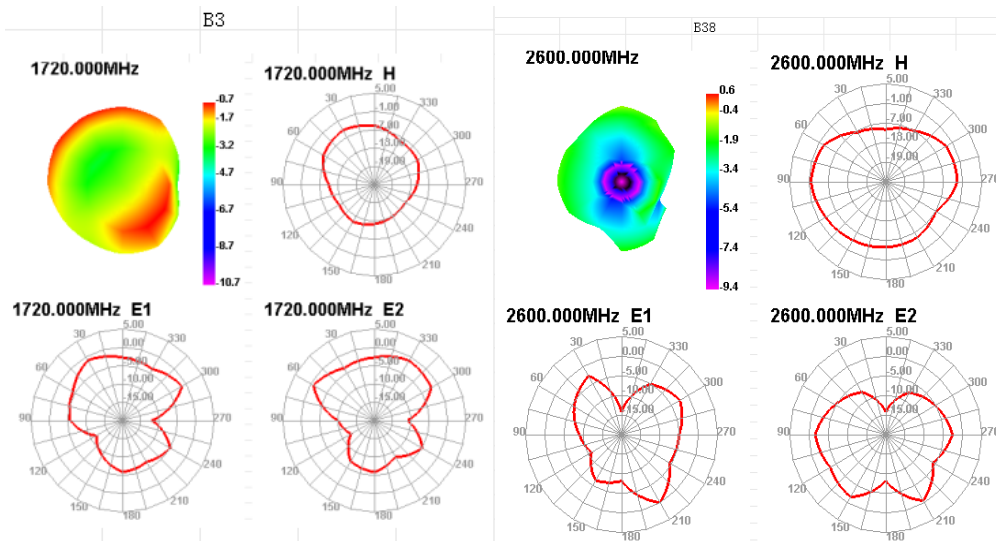
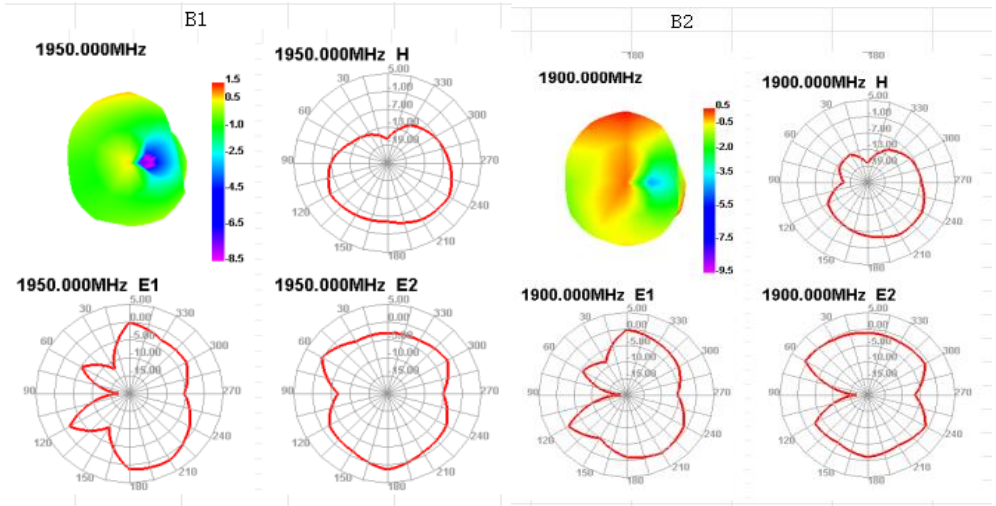


≡ . (ANT3) log Mag/SWR/smith

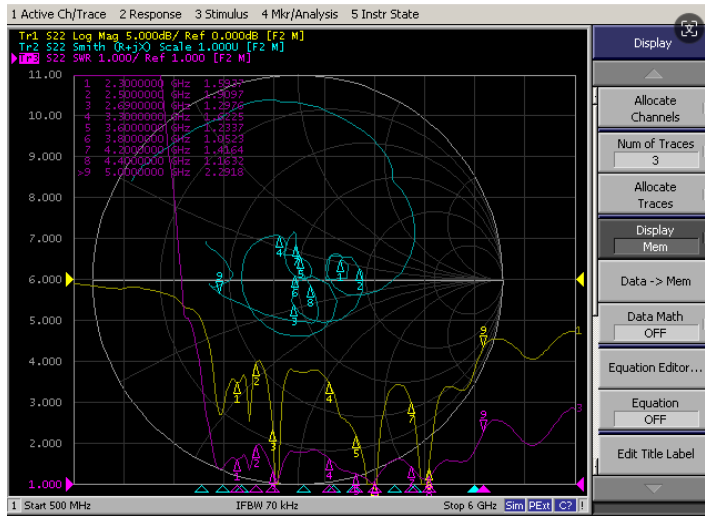


3.1 ANT3 Passive Efficiency Data & Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1710	38.01	-4.20	-1.06	2210	42.91	-3.67	2.11
1720	38.24	-4.17	-0.67	2220	41.88	-3.78	2.12
1730	38.89	-4.10	-0.2	2230	41.43	-3.83	2.21
1740	39.73	-4.01	0.07	2240	40.03	-3.98	2.13
1750	39.47	-4.04	0.03	2250	39.39	-4.05	2.23
1760	39.52	-4.03	0.29	2260	37.18	-4.3	1.96
1770	38.09	-4.19	0.24	2270	37.59	-4.25	2
1780	38.49	-4.15	0.13	2280	35.58	-4.49	1.68
1790	38.85	-4.11	0.05	2290	34.62	-4.61	1.54
1800	39.45	-4.04	0.06	2300	34.44	-4.63	1.5
1810	38.51	-4.14	0.06	2310	33.48	-4.75	1.34
1820	39.04	-4.08	-0.04	2320	33.29	-4.78	1.24
1830	39.35	-4.05	-0.05	2330	35.12	-4.54	1.28
1840	40	-3.98	0.15	2340	36.05	-4.43	1.46
1850	41.6	-3.81	0.51	2350	37.07	-4.31	1.48
1860	42.16	-3.75	0.45	2360	35.62	-4.48	1.39
1870	42.37	-3.73	0.32	2370	34.58	-4.61	1.07
1880	40.67	-3.91	0.35	2380	35.35	-4.52	1.26
1890	44.05	-3.56	0.4	2390	37.2	-4.29	1.45
1900	44.37	-3.53	0.51	2400	38.01	-4.2	1.66
1910	43.31	-3.63	0.72	2410	37.35	-4.28	1.62
1920	41.96	-3.77	0.89	2420	36.04	-4.43	1.49
1930	39.79	-4	1.17	2430	35.24	-4.53	1.35
1940	39.9	-3.99	1.27	2440	36.01	-4.44	1.39
1950	38.08	-4.19	1.52	2450	36.54	-4.37	1.37
1960	38.99	-4.09	1.73	2460	35.21	-4.53	1.15
1970	38.05	-4.20	1.68	2470	33.73	-4.72	0.86
1980	38.43	-4.15	1.93	2480	34.27	-4.65	0.85
1990	38.61	-4.13	1.62	2490	36.27	-4.4	1.06
2000	40.09	-3.97	1.96	2500	37.68	-4.24	0.99
2010	41.39	-3.83	1.88	2510	36.97	-4.32	0.77
2020	41.6	-3.81	1.65	2520	38.05	-4.2	0.77
2030	40.19	-3.96	1.73	2530	38.43	-4.15	0.66
2040	41.57	-3.81	1.73	2540	38.61	-4.13	0.69
2050	38.16	-4.18	1.83	2550	40.09	-3.97	0.87
2060	38.4	-4.16	1.91	2560	41.39	-3.83	1.02
2070	40.35	-3.94	2.05	2570	41.6	-3.81	0.98
2080	38.35	-4.16	2.05	2580	40.21	-3.96	0.81
2090	42.98	-3.67	2.32	2590	39.19	-4.07	0.56
2100	44.7	-3.50	2.3	2600	40.43	-3.93	0.58
2110	44.02	-3.56	1.86	2610	40.33	-3.94	0.44
2120	42.91	-3.67	1.72	2620	37.55	-4.25	0.09
2130	43.95	-3.57	1.95	2630	36.78	-4.34	-0.16
2140	45.68	-3.4	2.08	2640	37.22	-4.29	-0.23
2150	44.84	-3.48	2.02	2650	37.31	-4.28	-0.43
2160	43.64	-3.6	1.86	2660	37.44	-4.27	-0.51
2170	42.73	-3.69	1.77	2670	37.43	-4.27	-0.64
2180	42.98	-3.67	1.76	2680	38.03	-4.2	-0.62
2190	44.7	-3.5	2.02	2690	36.16	-4.42	-1.01
2200	44.02	-3.56	2.08	2700	35.4	-4.51	-1.26



四 (ANT4) log Mag/SWR/smith

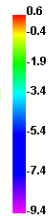
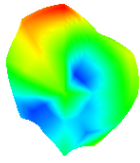


4.1 ANT4 Passive Efficiency Data & Gain

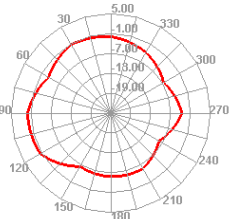
Freq (MHz)	Eff (%)	Eff (dB)	Gain (dB)	Freq (MHz)	Eff (%)	Eff (dB)	Gain (dB)
3300	46.16	-3.36	-1.24	4160	44.92	-3.48	-0.72
3320	49.45	-3.06	-1.47	4180	45.6	-3.41	-0.53
3340	47.46	-3.24	-1.37	4200	47.5	-3.23	-0.38
3360	50.63	-2.96	-1.35	4220	52.3	-2.82	0.12
3380	45.2	-3.45	-0.79	4240	48.42	-3.15	-0.12
3400	55.11	-2.59	-1.52	4260	51.08	-2.92	0.21
3420	49.96	-3.01	-0.75	4280	50.95	-2.93	0.41
3440	52.91	-2.76	-0.72	4300	46.85	-3.29	0.2
3460	49.61	-3.04	-0.2	4320	53.69	-2.7	0.86
3480	50.9	-2.93	-0.59	4340	52.12	-2.83	0.7
3500	46.65	-3.31	-0.64	4360	54.96	-2.6	1.01
3520	52.14	-2.83	-1.3	4380	60.78	-2.16	1.52
3540	50.78	-2.94	-1.53	4400	53.29	-2.73	1.07
3560	45.98	-3.37	-1.97	4420	51.03	-2.92	0.96
3580	45.94	-3.38	-1.87	4440	55.58	-2.55	1.51
3600	46.78	-3.3	-2.25	4460	51.73	-2.86	1.26
3620	46.77	-3.3	-2.09	4480	51.55	-2.88	1.39
3640	49.5	-3.05	-2.5	4500	49.64	-3.04	1.37
3660	46.28	-3.35	-2.17	4520	45.49	-3.42	1.3
3680	51.89	-2.85	-2	4540	44.16	-3.55	1.37
3700	49.45	-3.06	-1.45	4560	41.48	-3.82	1.27
3720	52.91	-2.76	-1.53	4580	45.34	-3.43	1.87
3740	48.71	-3.12	-0.97	4600	43.86	-3.58	1.83
3760	48.12	-3.18	-0.91	4620	44.06	-3.56	2.09
3780	43.04	-3.66	-0.53	4640	45.16	-3.45	2.35
3800	44.64	-3.5	-0.56	4660	45.67	-3.4	2.38
3820	44.43	-3.52	-0.62	4680	44.26	-3.54	2.38
3840	46.57	-3.32	-0.88	4700	44.65	-3.5	2.29
3860	46.43	-3.33	-0.69	4720	42.39	-3.73	1.82
3880	49.37	-3.06	-1.04	4740	42.88	-3.68	1.71
3900	49.66	-3.04	-0.71	4760	39.5	-4.03	1.08
3920	48.31	-3.16	-0.7	4780	42.74	-3.69	1.14
3940	52.77	-2.78	-1.33	4800	44.66	-3.5	0.92
3960	45.8	-3.39	-0.79	4820	42.52	-3.71	0.4
3980	48.87	-3.11	-0.94	4840	44.15	-3.55	0.69
4000	42.86	-3.68	-0.19	4860	44.21	-3.54	0.74
4020	40.85	-3.89	-0.36	4880	42.73	-3.69	0.82
4040	40.05	-3.97	-0.59	4900	43.58	-3.61	0.9
4060	41.3	-3.84	-0.58	4920	39.49	-4.04	0.65
4080	40.84	-3.89	-0.8	4940	39.5	-4.03	0.56
4100	43.29	-3.64	-0.66	4960	40.13	-3.96	0.59
4120	40.61	-3.91	-1.2	4980	37.78	-4.23	0.24
4140	43.71	-3.59	-0.95	5000	37.89	-4.21	0.2

B42

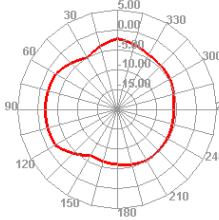
3500.000MHz



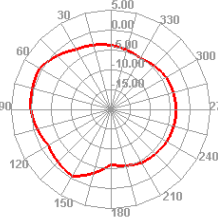
3500.000MHz H



3500.000MHz E1

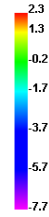
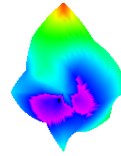


3500.000MHz E2

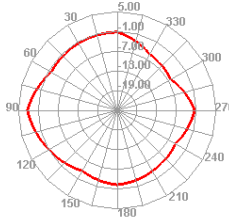


B48

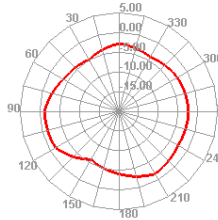
3600.000MHz



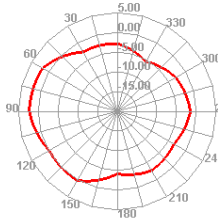
3600.000MHz H



3600.000MHz E1

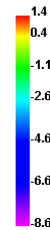
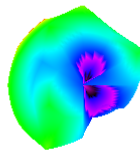


3600.000MHz E2

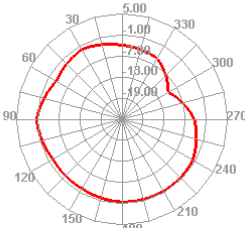


N79

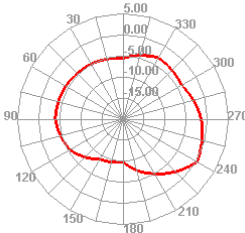
4500.000MHz



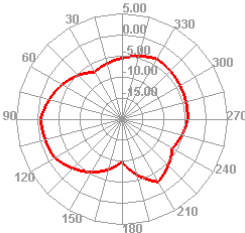
4500.000MHz H



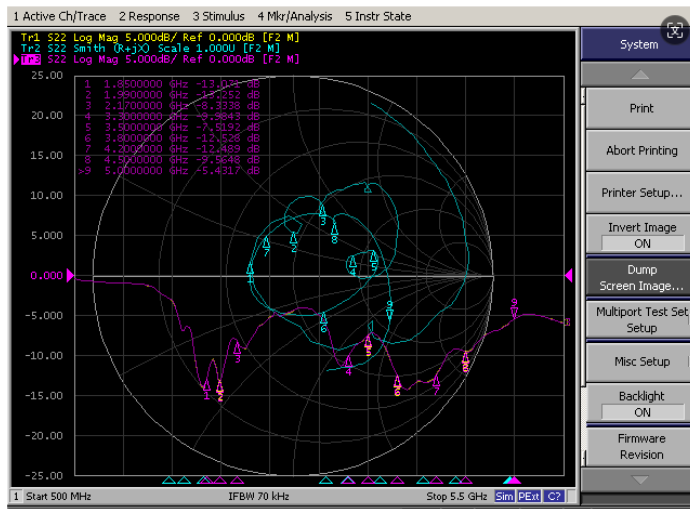
4500.000MHz E1



4500.000MHz E2

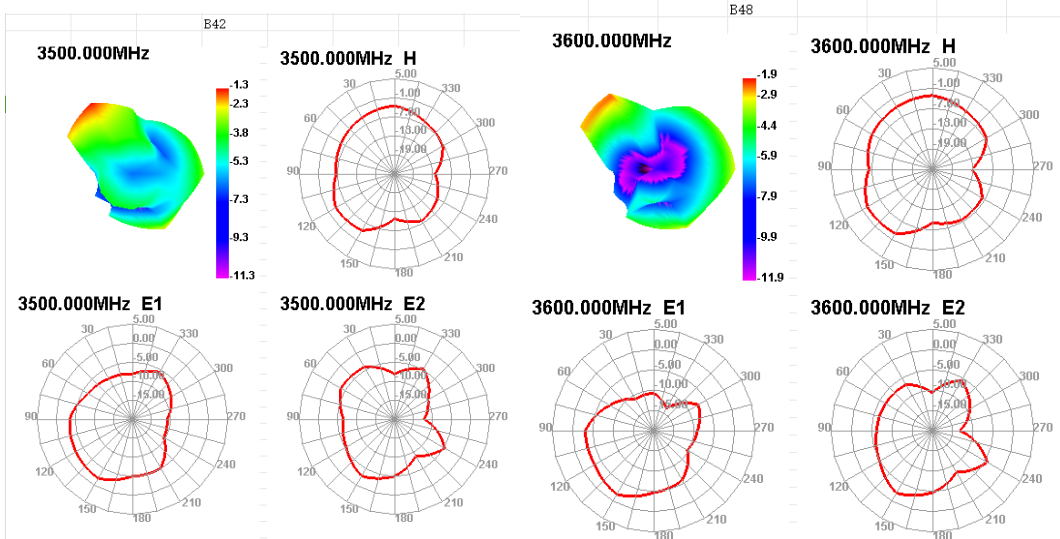


五、 (ANT5) log Mag/SWR/smith

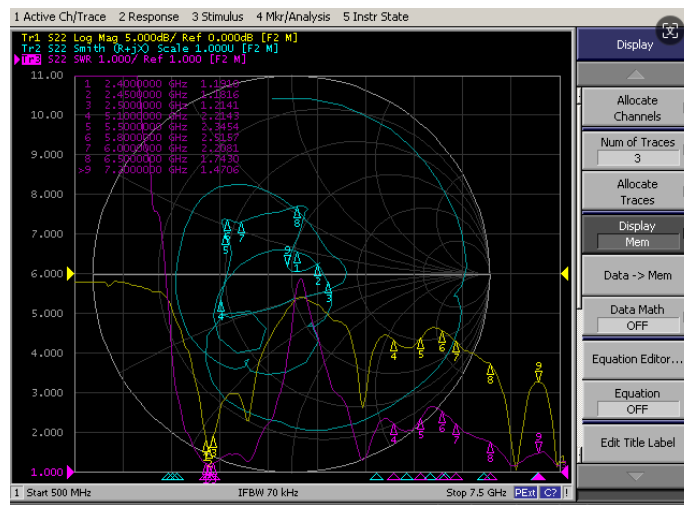


5.1 ANT5 Passive Efficiency Data & Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
3300	33	-4.81	0.1	4160	18.5	-7.33	-2.04
3320	34.68	-4.6	0.34	4180	17.85	-7.48	-2.26
3340	31.21	-5.06	-0.08	4200	20.36	-6.91	-1.72
3360	31.8	-4.98	0.09	4220	21.17	-6.74	-1.59
3380	28.55	-5.44	-0.39	4240	21.7	-6.64	-1.54
3400	34.36	-4.64	0.34	4260	23.35	-6.32	-1.34
3420	30.44	-5.16	-0.27	4280	24.48	-6.11	-1.23
3440	33.02	-4.81	-0.52	4300	27.13	-5.67	-0.7
3460	29.59	-5.29	-1.39	4320	30.83	-5.11	-0.49
3480	30.77	-5.12	-1.15	4340	31.39	-5.03	-0.66
3500	29.18	-5.35	-1.27	4360	34.52	-4.62	-0.46
3520	32.16	-4.93	-0.94	4380	33.43	-4.76	-0.71
3540	30.35	-5.18	-1.13	4400	32.82	-4.84	-0.89
3560	30.97	-5.09	-1.32	4420	31.58	-5.01	-0.89
3580	25.39	-5.95	-2.37	4440	36.19	-4.41	-0.2
3600	27.76	-5.57	-1.86	4460	36.4	-4.39	-0.14
3620	23.66	-6.26	-2.47	4480	37.52	-4.26	-0.11
3640	25.07	-6.01	-2	4500	40.91	-3.88	0.15
3660	25.32	-5.97	-2.01	4520	41.64	-3.81	-0.02
3680	24.37	-6.13	-2.24	4540	40.11	-3.97	-0.21
3700	25.06	-6.01	-2.01	4560	39.95	-3.98	0.02
3720	30.6	-5.14	-1.17	4580	40.34	-3.94	0.29
3740	26.36	-5.79	-1.88	4600	38.83	-4.11	0.24
3760	30.85	-5.11	-1.06	4620	37.15	-4.3	0.15
3780	28.41	-5.46	-1.25	4640	36.6	-4.36	0.11
3800	29.24	-5.34	-0.93	4660	37.47	-4.26	0.22
3820	32.84	-4.84	-0.38	4680	36.08	-4.43	-0.12
3840	30.7	-5.13	-0.48	4700	36.92	-4.33	-0.16
3860	30.79	-5.12	-0.46	4720	33.48	-4.75	-0.93
3880	33.78	-4.71	-0.05	4740	32.9	-4.83	-1.09
3900	31.31	-5.04	-0.21	4760	28.95	-5.38	-1.48
3920	32.28	-4.91	0.14	4780	28.14	-5.51	-1.15
3940	33.75	-4.72	0.44	4800	28.59	-5.44	-0.9
3960	26.99	-5.69	-0.66	4820	25.02	-6.02	-1.23
3980	30.94	-5.09	-0.2	4840	24.78	-6.06	-1.42
4000	24.32	-6.14	-1.59	4860	24.66	-6.08	-1.73
4020	21.71	-6.63	-2.23	4880	22.74	-6.43	-2.05
4040	23.57	-6.28	-1.94	4900	23.69	-6.25	-1.67
4060	21.15	-6.75	-2.03	4920	22.46	-6.49	-1.62
4080	21.94	-6.59	-1.66	4940	22.13	-6.55	-1.58
4100	22.85	-6.41	-1.41	4960	24.17	-6.17	-1.08
4120	18.11	-7.42	-2.02	4980	21.99	-6.58	-1.45
4140	21.08	-6.76	-1.52	5000	22.13	-6.55	-1.38

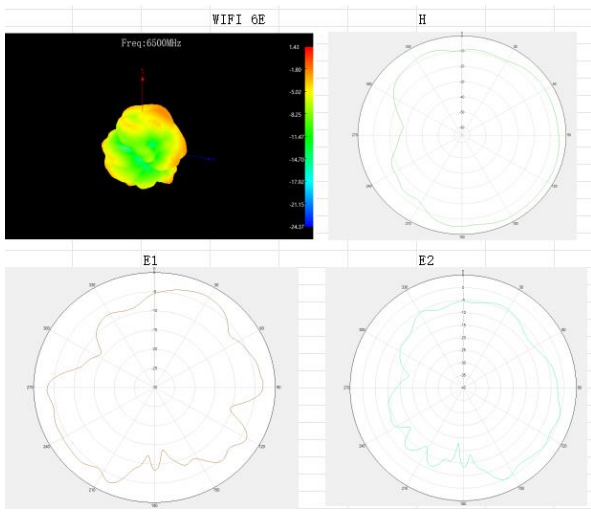
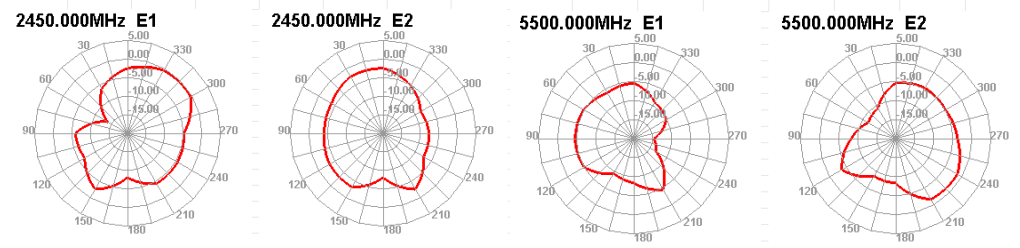
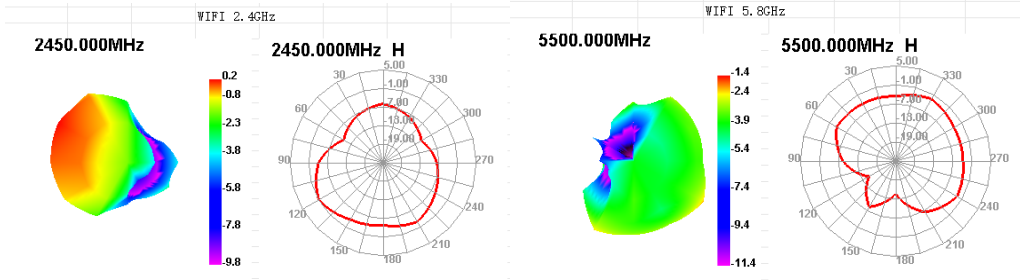


六 . (ANT7) log Mag/SWR/smith

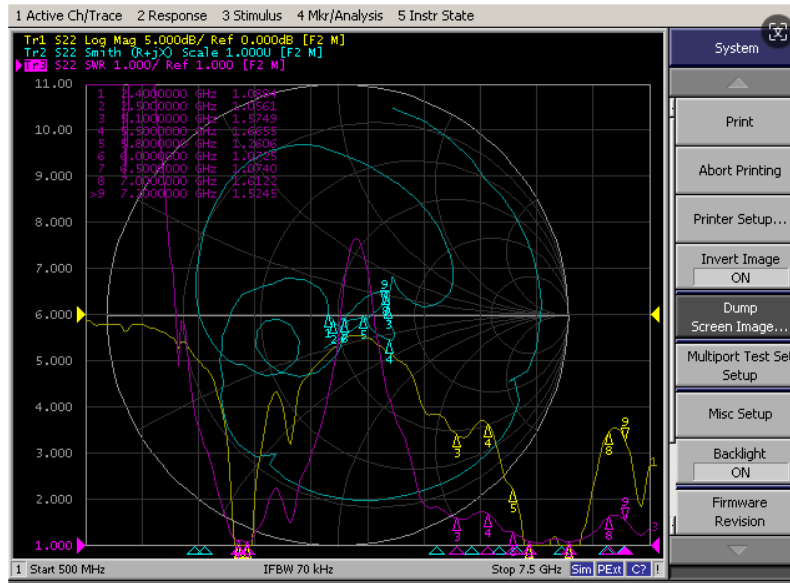


6.1 ANT7 Passive Efficiency Data & Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2410	37.63	-4.24	-0.16	5850	36.15	-4.42	1.05
2420	38.36	-4.16	-0.27	5900	38.09	-4.19	1.55
2430	40.17	-3.96	-0.28	5950	38.14	-4.19	1.36
2440	39.56	-4.03	-0.44	6000	33.87	-4.7	1.33
2450	39.36	-4.05	0.2	6050	33.3	-4.78	1.39
2460	39.92	-3.99	-0.06	6100	33.67	-4.73	1.38
2470	39.31	-4.06	-0.34	6150	33.72	-4.72	1.39
2480	39.86	-4	-0.24	6200	32.8	-4.84	1.51
2490	39.74	-4.01	-0.03	6250	32.16	-4.93	1.06
2500	39.49	-4.03	0.16	6300	32.82	-4.84	0.9
5000	27.43	-5.62	-1.46	6350	33.31	-4.77	1.19
5050	27.67	-5.58	-1.52	6400	33.55	-4.74	1.1
5100	29.07	-5.37	-1.6	6450	33.04	-4.81	1.26
5150	29.14	-5.35	-1.55	6500	30.75	-5.12	1.43
5200	30.93	-5.1	-1.63	6550	30.1	-5.21	1.67
5250	30.69	-5.13	-1.57	6600	29.23	-5.34	1.4
5300	32.39	-4.9	-1.37	6650	30.52	-5.15	1.31
5350	34.26	-4.65	-1.59	6700	31.38	-5.03	1.54
5400	34.58	-4.61	-1.06	6750	30.25	-5.19	1.53
5450	34.52	-4.62	-1.41	6800	28.84	-5.4	1.76
5500	34.66	-4.6	-1.36	6850	28.42	-5.46	1.73
5550	31.84	-4.97	-1.13	6900	23.32	-6.32	1.77
5600	32.52	-4.88	-1.15	6950	25.95	-5.86	1.43
5650	32.18	-4.92	-0.91	7000	25.03	-6.01	1.23
5700	32.51	-4.88	-0.39	7050	24.66	-6.08	0.82
5750	34.51	-4.62	-0.39	7100	26.16	-5.82	0.57
5800	36.27	-4.4	-0.33	7150	27.28	-5.64	0.51
				7200	29.37	-5.32	0.2



七、 (ANT8) log Mag/SWR/smith



7.1 ANT8 Passive Efficiency Data & Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	38.68	-4.13	0.31	5850	30.93	-5.1	-1.77
2410	38.26	-4.17	0.3	5900	31.88	-4.96	-1.77
2420	38.43	-4.15	0.21	5950	30.33	-5.18	-1.29
2430	38.34	-4.16	0.12	6000	30.64	-5.14	-0.67
2440	38.19	-4.18	0.03	6050	29.75	-5.26	-0.82
2450	38.48	-4.15	0.1	6100	36.82	-4.34	-0.58
2460	37.06	-4.31	-0.13	6150	35.35	-4.52	-0.26
2470	36.28	-4.4	-0.08	6200	36.07	-4.43	-0.25
2480	36.93	-4.33	0.09	6250	35.15	-4.54	0.75
2490	38.05	-4.2	0.4	6300	35.14	-4.54	0.71
2500	37.56	-4.25	0.27	6350	33.38	-4.76	0.9
5000	28.55	-5.44	-1.73	6400	32.64	-4.86	1.01
5050	29.29	-5.33	-1.91	6450	34.55	-4.62	1.21
5100	30.36	-5.18	-2	6500	35.07	-4.55	1.34
5150	31.93	-4.96	-2.14	6550	35.73	-4.47	1.78
5200	33.16	-4.79	-2.19	6600	32.86	-4.83	1.56
5250	32.63	-4.86	-2.05	6650	33.32	-4.77	1.04
5300	32.95	-4.82	-2.09	6700	32.49	-4.88	1.34
5350	33.38	-4.77	-2.27	6750	32.51	-4.88	1.22
5400	33.32	-4.77	-2.37	6800	31.26	-5.05	1.25
5450	32.61	-4.87	-2.55	6850	30.89	-5.1	1.3
5500	32.77	-4.85	-2.59	6900	33.84	-4.71	1.23
5550	32.09	-4.94	-2.22	6950	33.23	-4.78	1.02
5600	32.06	-4.94	-2.2	7000	33.67	-4.73	0.97
5650	31.45	-5.02	-2.02	7050	32.69	-4.86	1.36
5700	31.44	-5.02	-1.93	7100	32.72	-4.85	1.15
5750	30.78	-5.12	-2.21	7150	32.82	-4.84	1.02
5800	31.47	-5.02	-2.25	7200	33.22	-4.79	0.81

