



深圳市德仕勤科技有限公司

天线测试报告

DOSKING Antenna Test Report



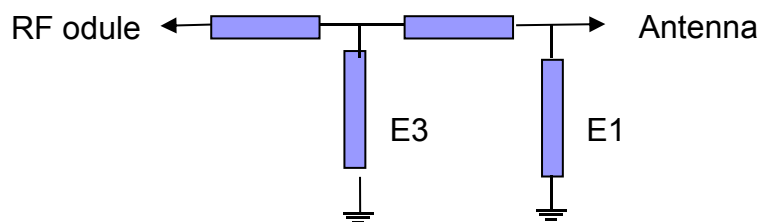
1. 项目概况：

客户名称	赛博宇华	项目名称	A8011B
天线种类及频段信息		天线形式	
主天线	2G:850/900/1800/1900, 3G:B2/5 FDD:1/3/5/8/38/40/41	PIFA	
副天线	WIFI+GPS+BT	PIFA	
分集天线	有	PIFA	

2. 主要测试设备

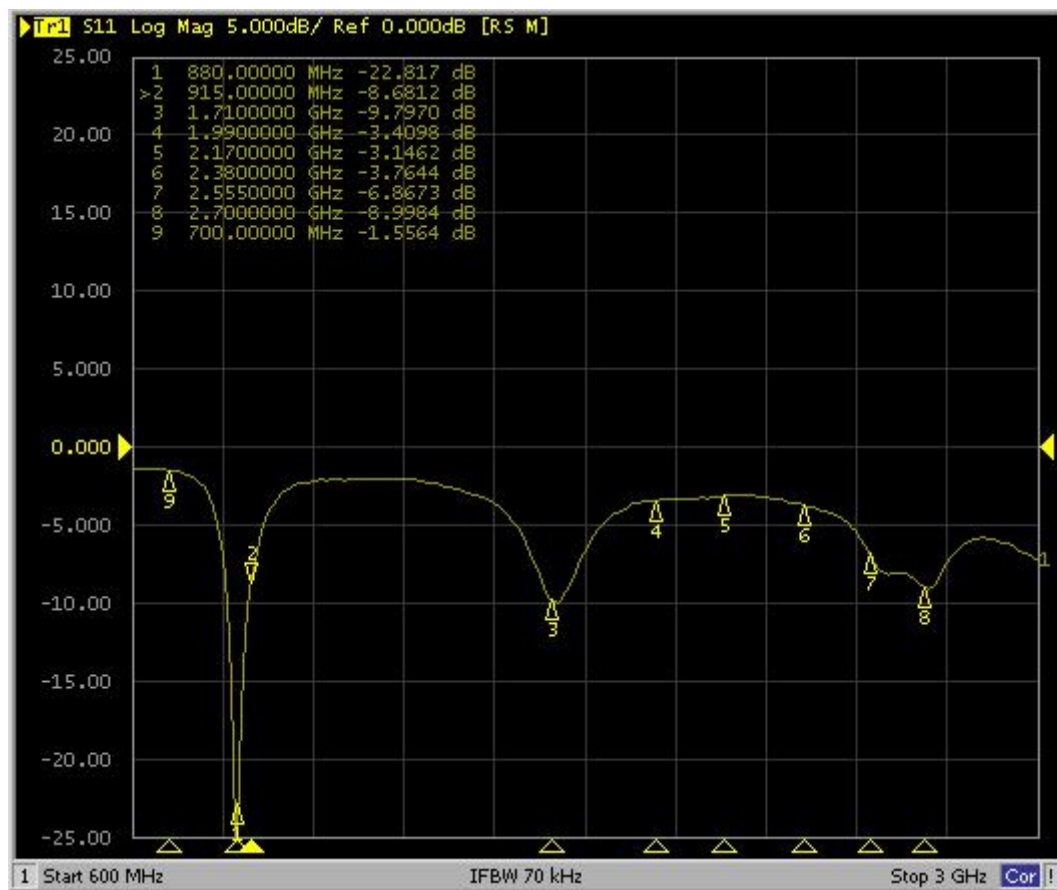
1. ETS Chamber 7×4×3(m)(3D 暗室) / 5×3×3(m)(3D 暗室), 矢量网络分析仪(无源测试仪)
2. Network analyzer-8960/LTE CMW500/8820 支持 2G、3G、4G 网络. (有源测试仪)

3. Matching Circuit 主天线



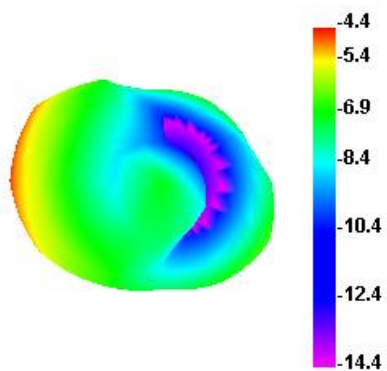
Element	匹配值	
E1(0402)		
E2(0402)		
E3(0402)		
E3(0402)		

4：天线无源测试

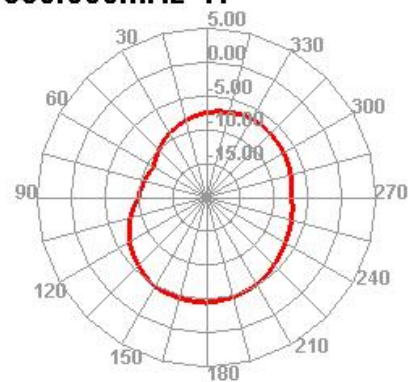


Passive Test For 880-960			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
880	22.87	-7.24	-4.4
885	23.84	-7.02	-4.16
890	23.86	-7.02	-4.17
895	23.09	-7.19	-4.49
900	23.23	-7.16	-4.44
905	22.05	-7.43	-4.63
910	21.46	-7.58	-4.74
915	20.99	-7.7	-4.69

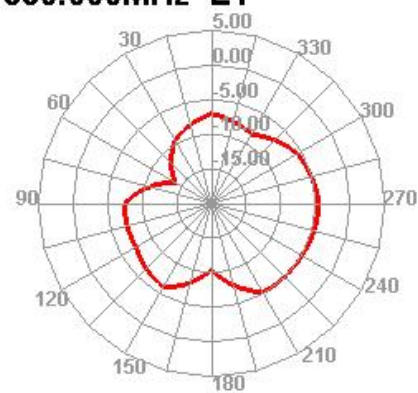
880.000MHz



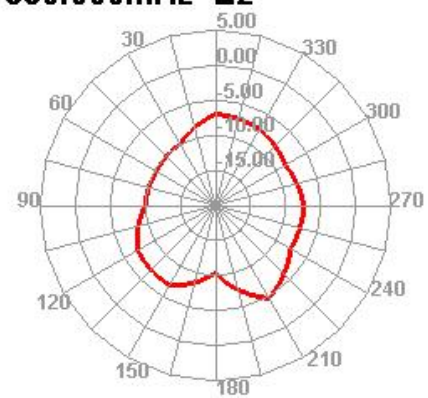
880.000MHz H

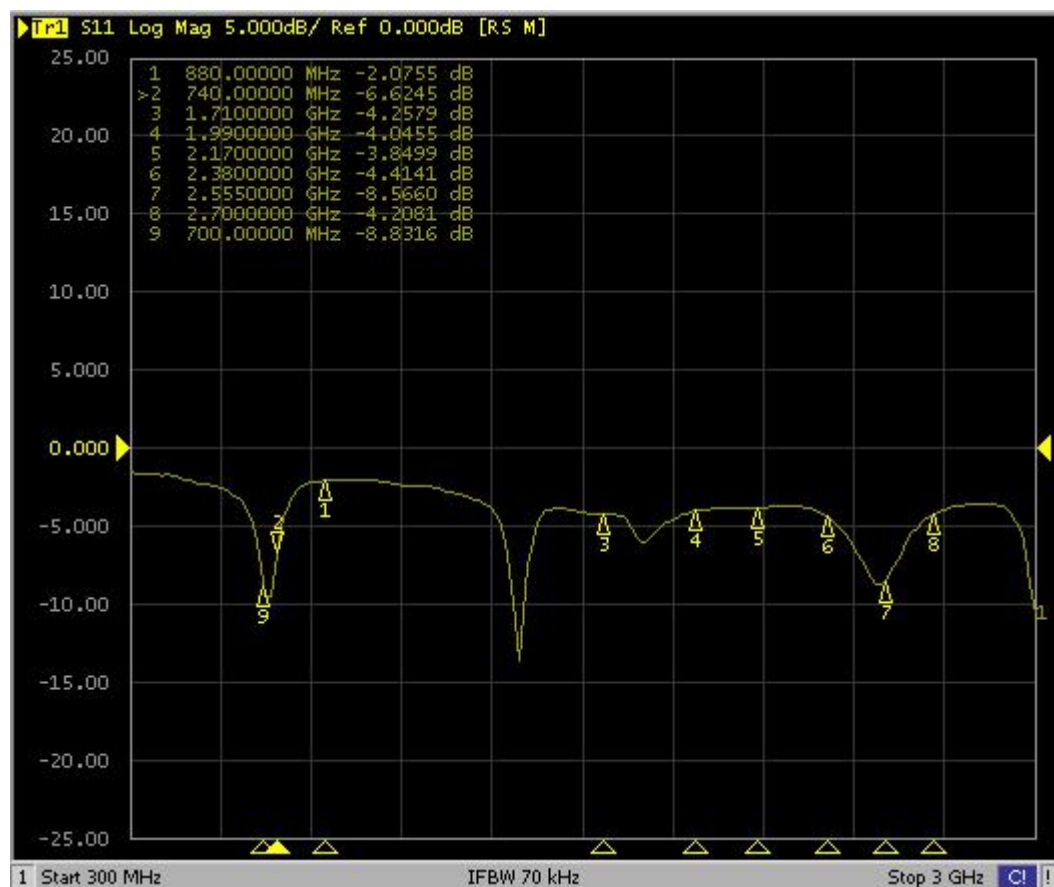


880.000MHz E1



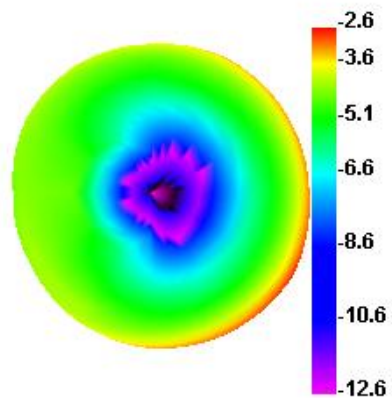
880.000MHz E2



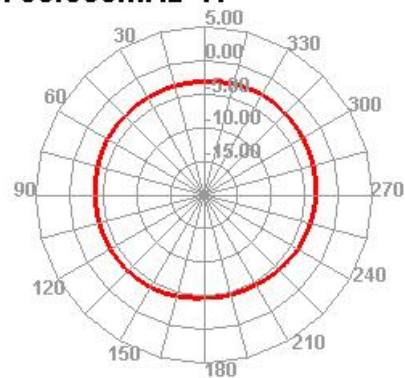


Passive Test For 700-880			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	32.77	-4.85	-2.65
718	32	-4.95	-2.84
736	26.41	-5.78	-3.44
754	13.25	-8.78	-6.22

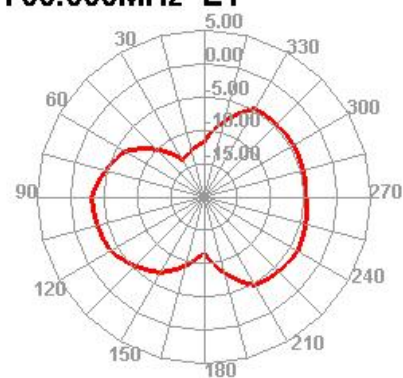
700.000MHz



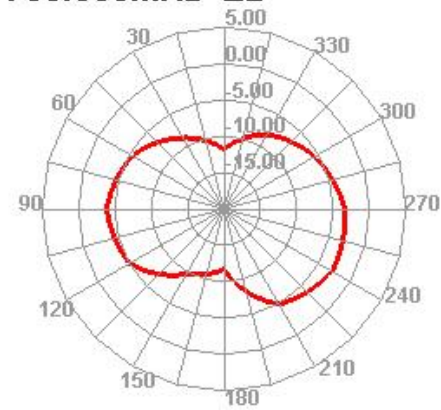
700.000MHz H

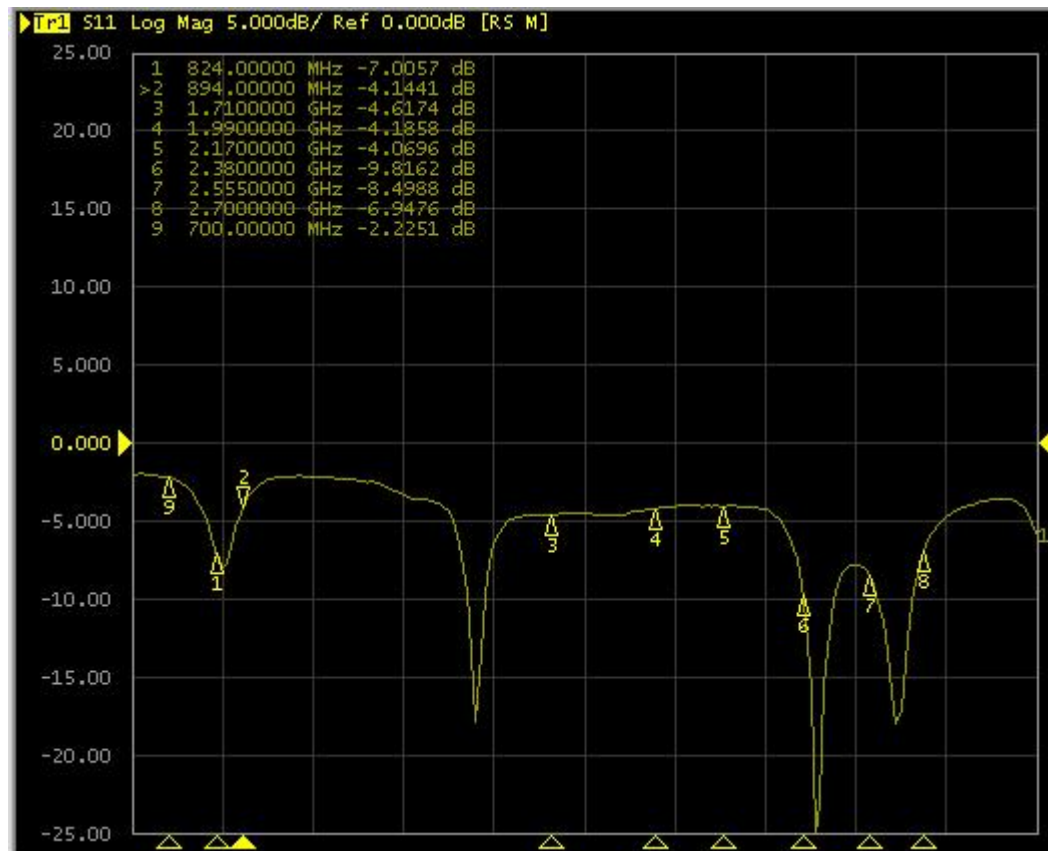


700.000MHz E1



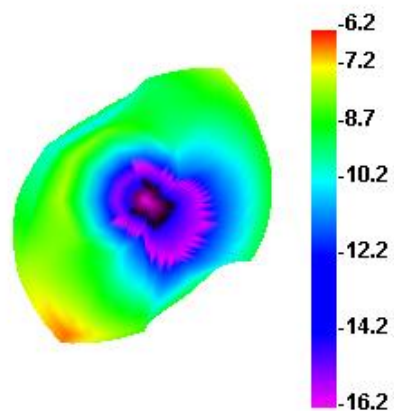
700.000MHz E2



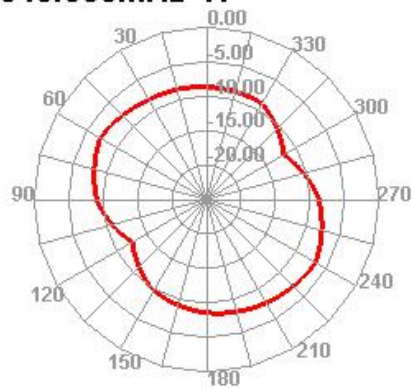


Passive Test For 800-960			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
800	16.8	-10.09	-6.44
810	17.96	-9.6	-5.78
820	18.48	-9.4	-5.83
830	19.46	-9.05	-5.69
840	19.55	-9.01	-6.18
850	19.42	-9.06	-6.23
860	17.57	-9.76	-6.8
870	16.48	-10.23	-7
880	8.69	-10.61	-7.48

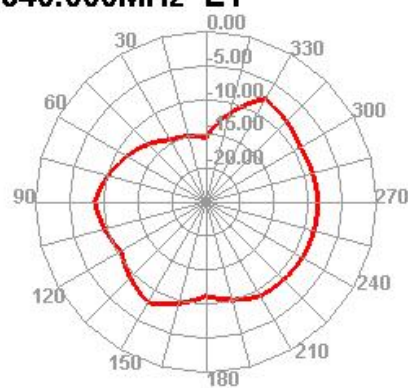
840.000MHz



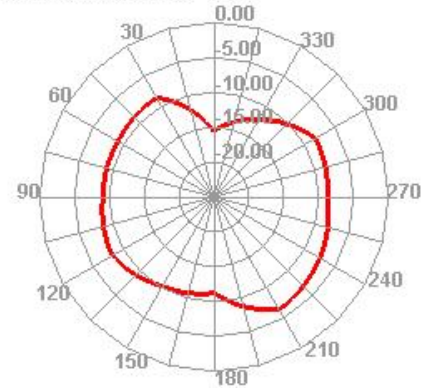
840.000MHz H

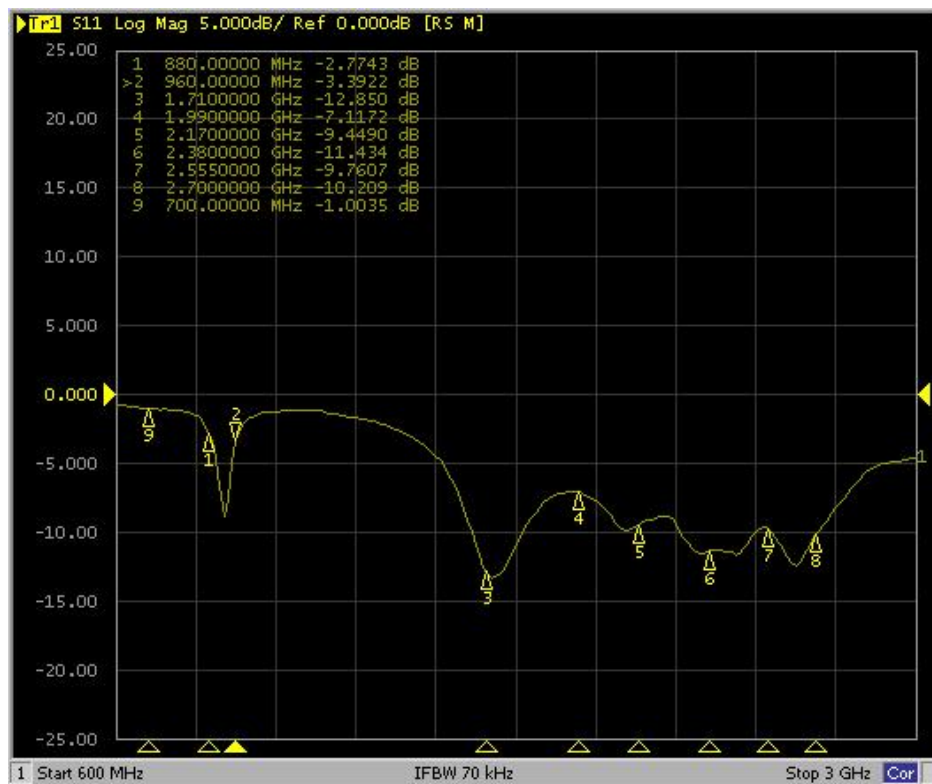


840.000MHz E1



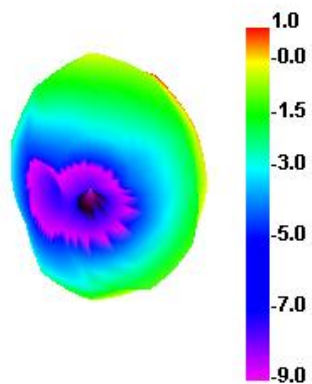
840.000MHz E2



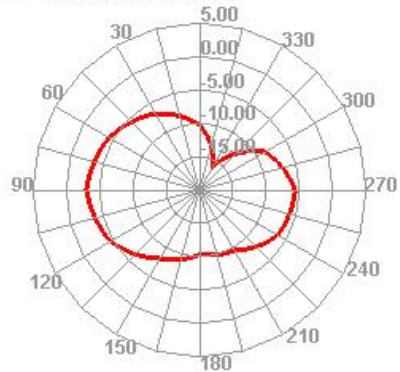


Passive Test For 1700-2700			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1700	38.2	-4.18	1.01
1710	39.87	-3.99	1
1720	40.14	-3.96	0.94
1730	43.9	-3.58	1.4
1740	40.18	-3.96	0.9
1750	36.42	-4.39	0.61
1760	37.08	-4.31	0.66
1770	36.26	-4.41	0.56
1780	39.45	-4.04	0.9
1790	38.24	-4.17	0.86
1800	40.84	-3.89	1.11
1810	45.09	-3.46	1.54
1820	45.62	-3.41	1.49
1830	45.72	-3.4	1.51
1840	45.07	-3.46	1.32
1850	46.13	-3.36	1.41
1860	44.92	-3.48	1.3
1870	41.13	-3.86	0.97
1880	43.49	-3.62	1.12
1890	44.55	-3.51	1.17
1900	46.65	-3.31	1.27
1910	48.62	-3.13	1.35
1920	50.9	-2.93	1.46
1930	58.1	-2.36	1.99
1940	54.14	-2.66	1.67
1950	53.22	-2.74	1.55
1960	51.43	-2.89	1.4
1970	51.9	-2.85	1.46
1980	50.88	-2.93	1.51
2390	42.5	-3.72	0.97
2400	41.1	-3.86	0.94
2410	41.91	-3.78	0.97
2420	38.41	-4.16	0.69
2430	37.25	-4.29	0.4
2440	39.24	-4.06	0.65
2450	39.92	-3.99	0.57
2460	40.61	-3.91	0.68
2470	34.78	-4.59	0.23
2480	35.94	-4.44	0.48
2490	32.47	-4.89	0.39
2500	28.74	-5.42	0.23
2510	26.47	-5.77	0.08
2520	23.38	-6.31	-0.31
2530	26.15	-5.83	0.39
2540	23.43	-6.3	0.06
2550	25.96	-5.86	0.58
2560	29	-5.38	1.03
2570	32.99	-4.82	1.53
2580	35.21	-4.53	1.68
2590	34.11	-4.67	1.44
2600	39.79	-4	1.86
2610	41.37	-3.83	1.85
2620	39.59	-4.02	1.62
2630	40.51	-3.92	1.69
2640	42.02	-3.77	1.8
2650	46.67	-3.31	2.12
2660	47.22	-3.26	2.15
2670	49.38	-3.06	2.46
2680	49.64	-3.04	2.43
2690	49.03	-3.1	2.36
2700	45.29	-3.44	2

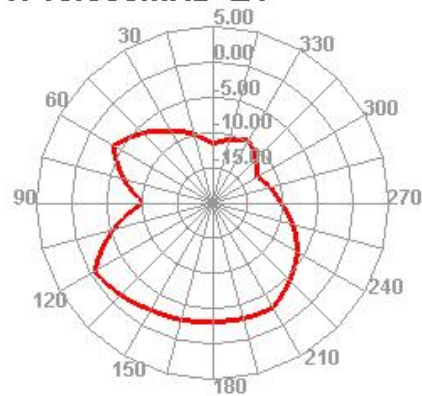
1710.000MHz



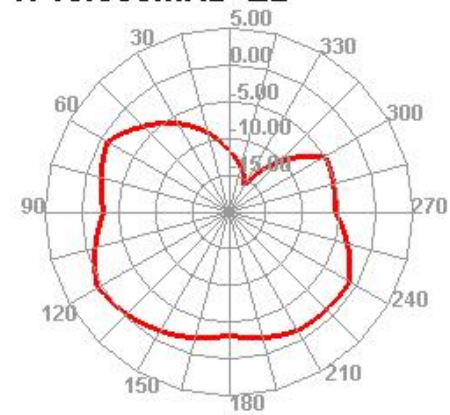
1710.000MHz H



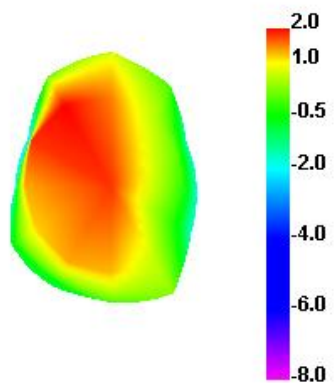
1710.000MHz E1



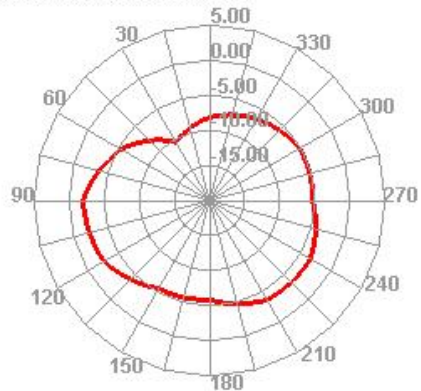
1710.000MHz E2



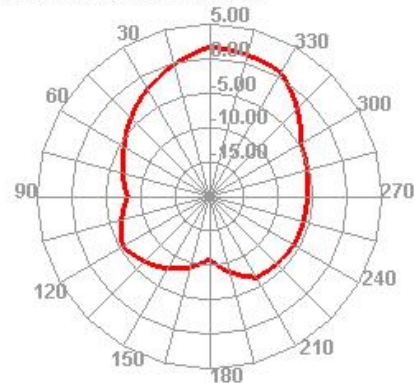
2700.000MHz



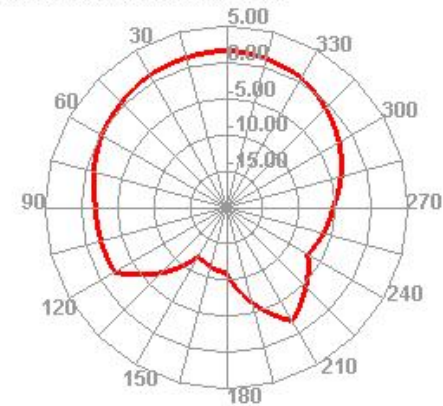
2700.000MHz H

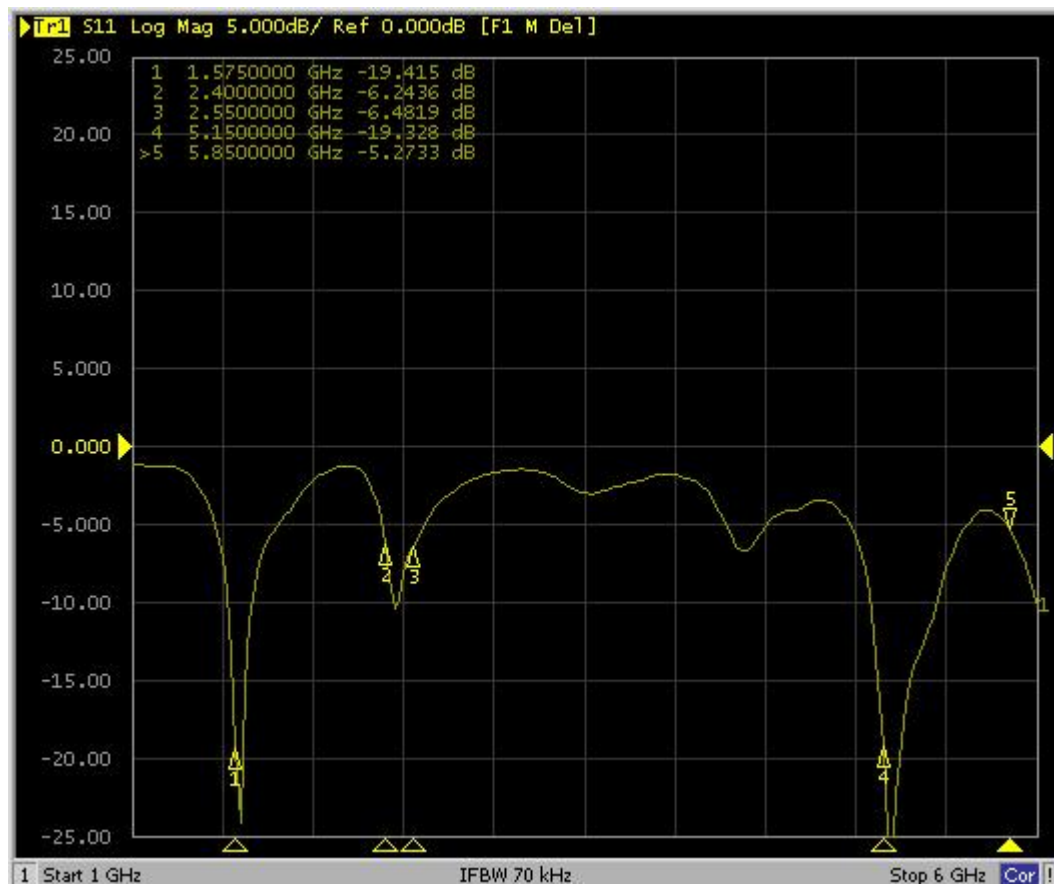


2700.000MHz E1



2700.000MHz E2





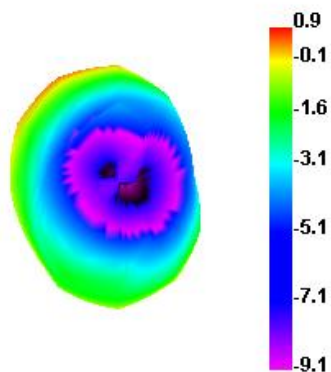
Passive Test For GPS

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1550	36.24	-4.41	0.8
1555	36.1	-4.42	0.72
1560	35.49	-4.5	0.63
1565	36.14	-4.42	0.74
1570	37.08	-4.31	0.84
1575	37.65	-4.24	0.86
1580	38.26	-4.17	0.97
1585	39.11	-4.08	1.1
1590	40.23	-3.95	1.2
1595	41.27	-3.84	1.26
1600	43.56	-3.61	1.47

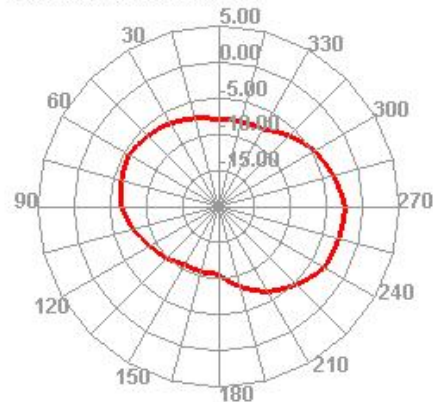
Passive Test For WIFI5.8			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
5150	29.92	-6.21	-0.58
5200	29.23	-6.34	-1.06
5250	30.7	-6.07	-0.89
5300	29.42	-6.3	-1.03
5350	30.51	-6.11	-1.13
5400	31.48	-5.94	-1.01
5450	28.25	-6.53	-1.64
5500	27.27	-6.72	-2.05
5550	25.45	-7.11	-3.01
5600	28.76	-7.76	-3.54
5650	25.37	-8.74	-4.15
5700	23.14	-9.53	-5.34
5750	24	-9.21	-4.28
5800	23.01	-9.58	-5.41
5850	24.8	-8.93	-3.84

Passive Test For 2400-2500			
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	28.36	-5.47	-0.35
2410	29.95	-5.24	-0.23
2420	29.4	-5.32	-0.47
2430	29.9	-5.24	-0.44
2440	33.04	-4.81	-0.3
2450	34.91	-4.57	-0.11
2460	37.4	-4.27	-0.1
2470	34.77	-4.59	-0.36
2480	38.59	-4.13	0.1
2490	36.44	-4.38	-0.38
2500	36.03	-4.43	-0.79

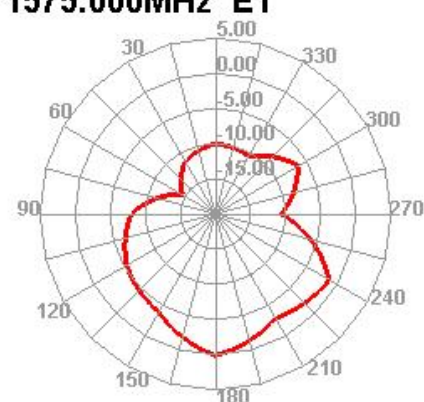
1575.000MHz



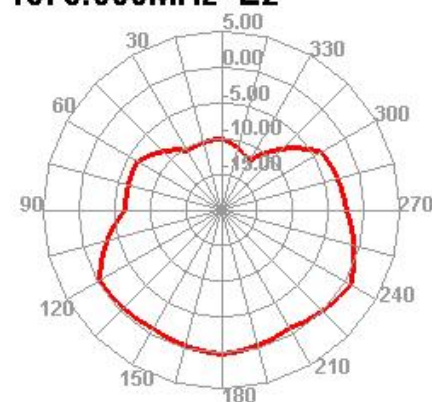
1575.000MHz H



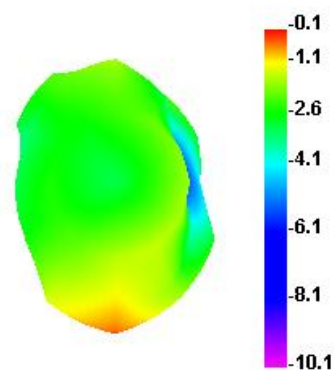
1575.000MHz E1



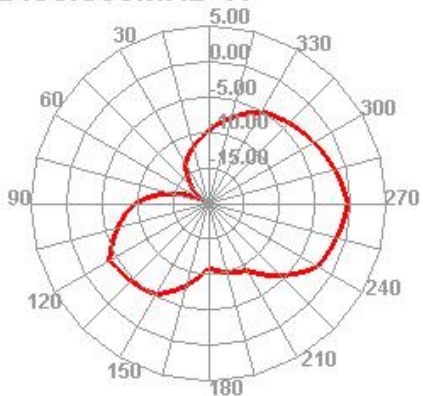
1575.000MHz E2



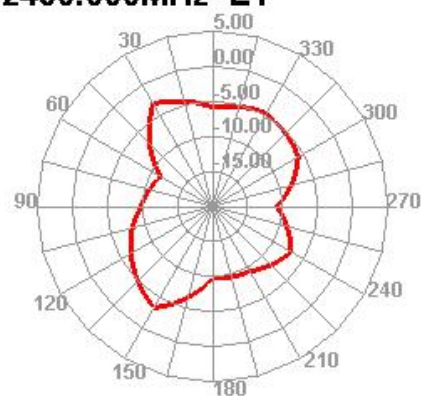
2450.000MHz



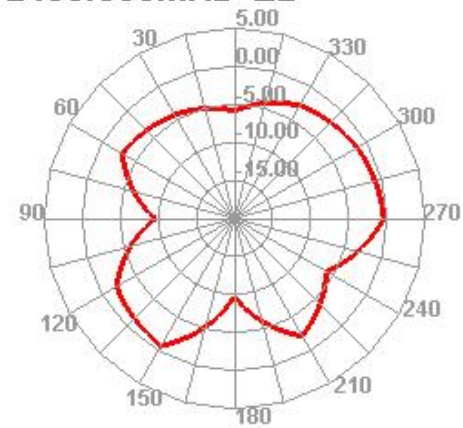
2450.000MHz H



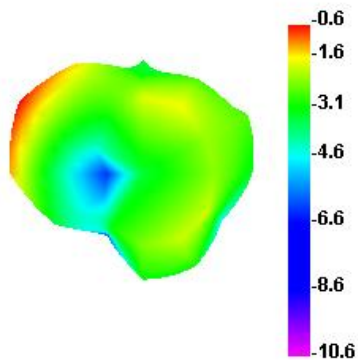
2450.000MHz E1



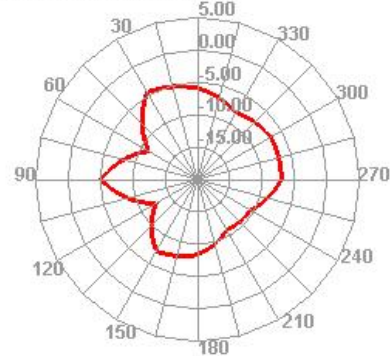
2450.000MHz E2



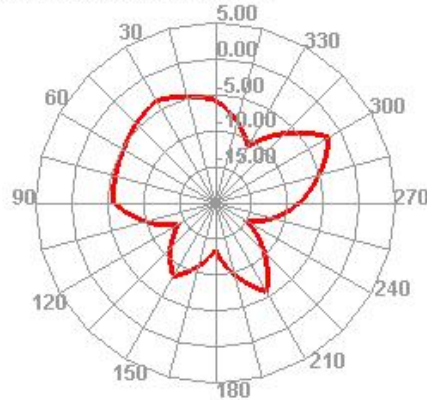
5150.000MHz



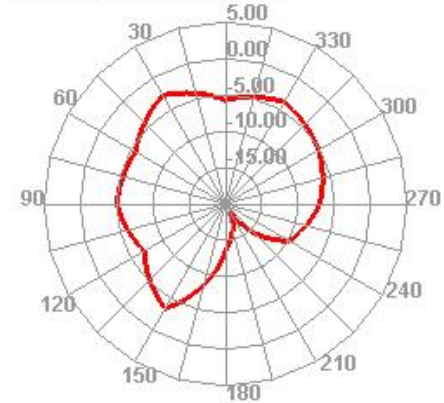
5150.000MHz H



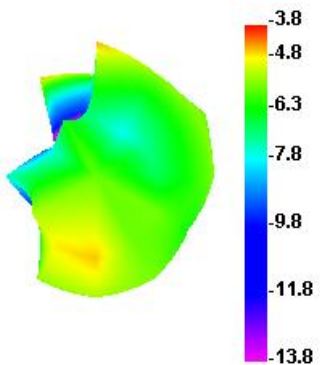
5150.000MHz E1



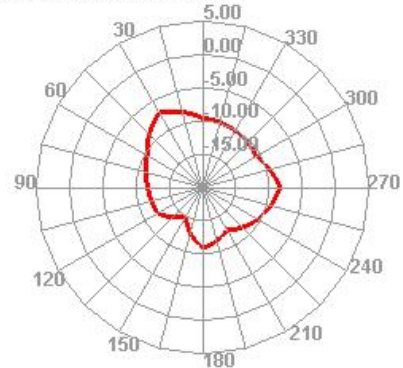
5150.000MHz E2



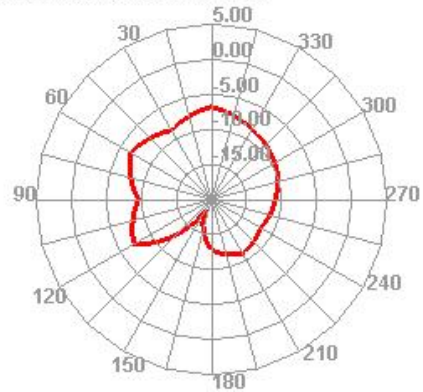
5850.000MHz



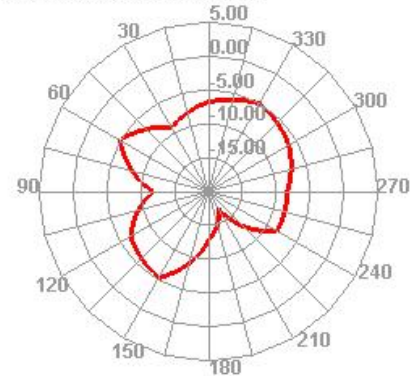
5850.000MHz H

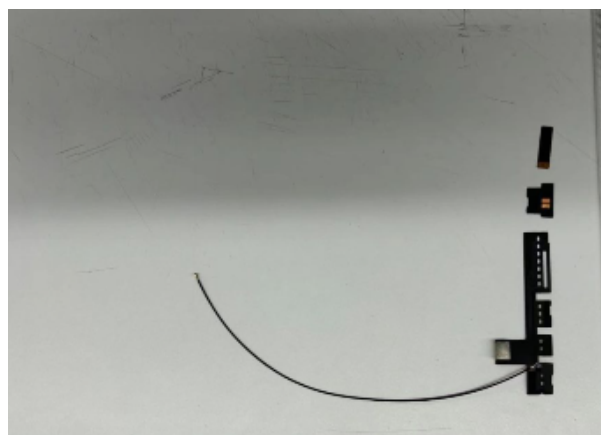


5850.000MHz E1



5850.000MHz E2





Diversity antenna

Three in one (BT/WIFI/GPS)

Main antenna