

Antenna Test Report

SHENZHEN KURUIJIE

Customer:
Project:E25A2

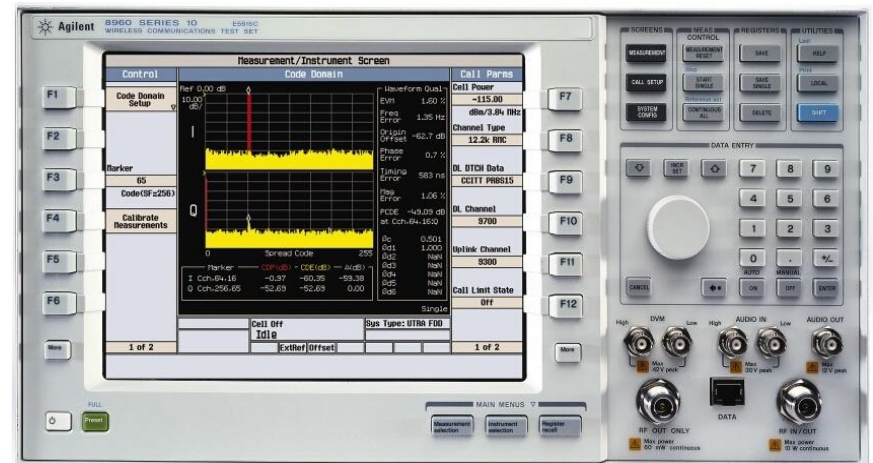
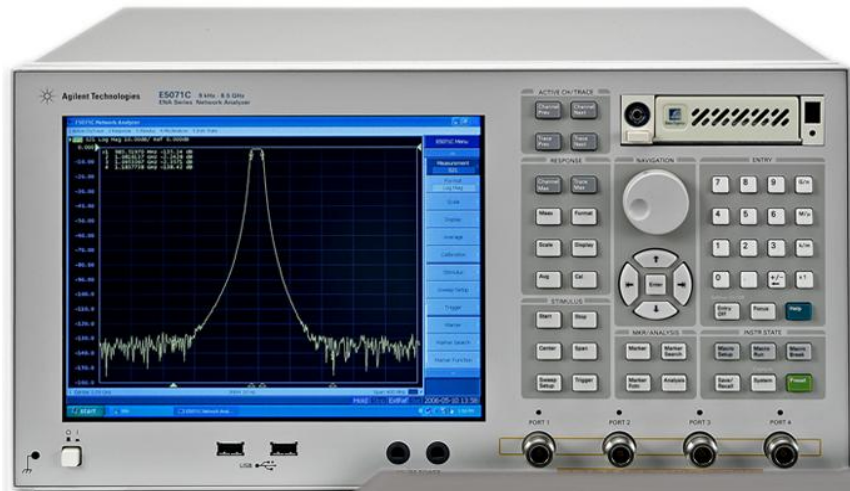
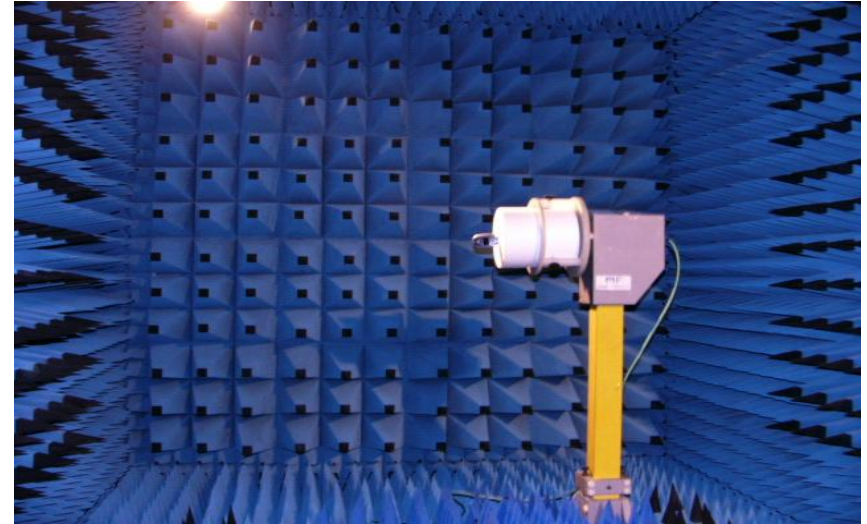
RF Engineer:邹工
Testing Date:2026.4.16

Index:

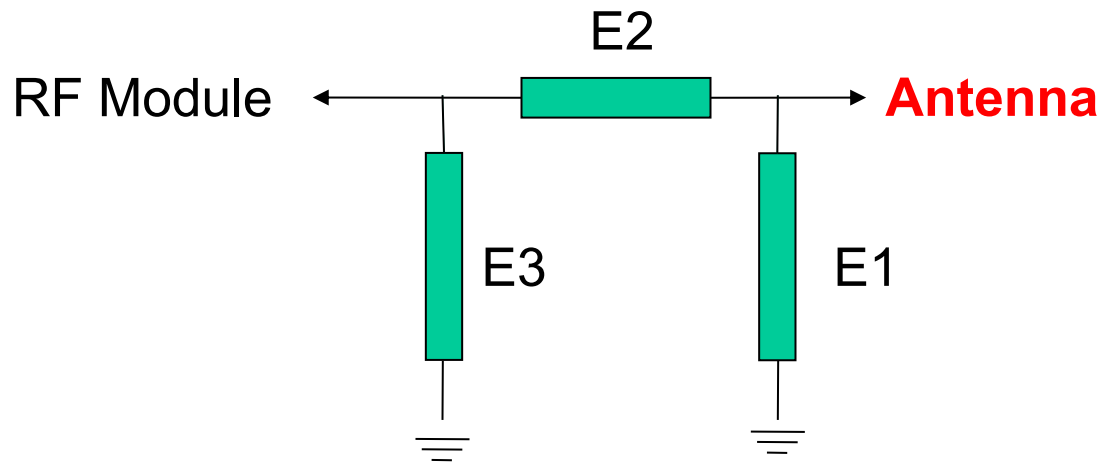
- 1. Testing Item & Equipments**
- 2. Matching Circuits**
- 3. Environmental Disposal**
- 4. Test Data**
- 5.主天线效率/增益**
- 6.GWB天线效率/增益**
- 7.主天线苹果图**
- 8.GWB天线苹果**

1. The Equipment of Active Test

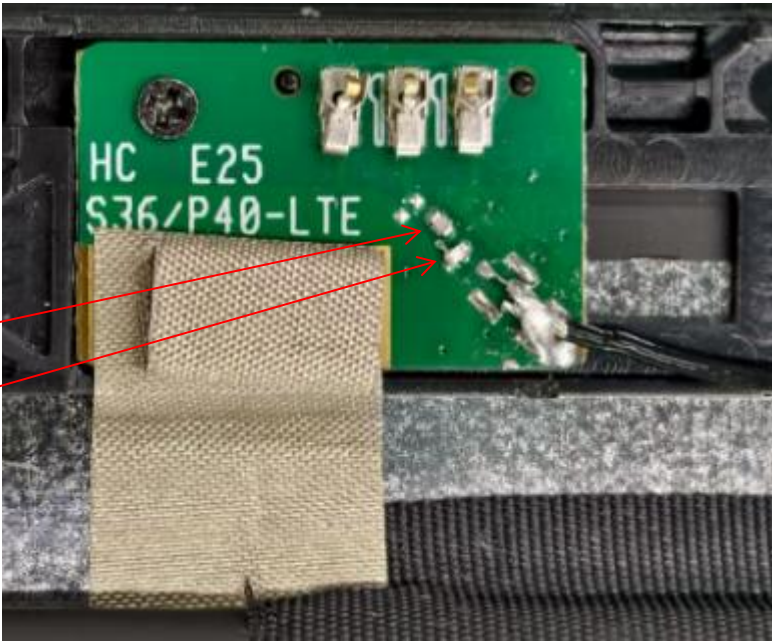
- 1: Anechoic Chamber 7x4x3 m (3D)
- 2: Rohde & Schwarz CMW500
- 3: AGILENT 8960 5515C
- 4: Network Analyzer-AGILENT ENA5071B



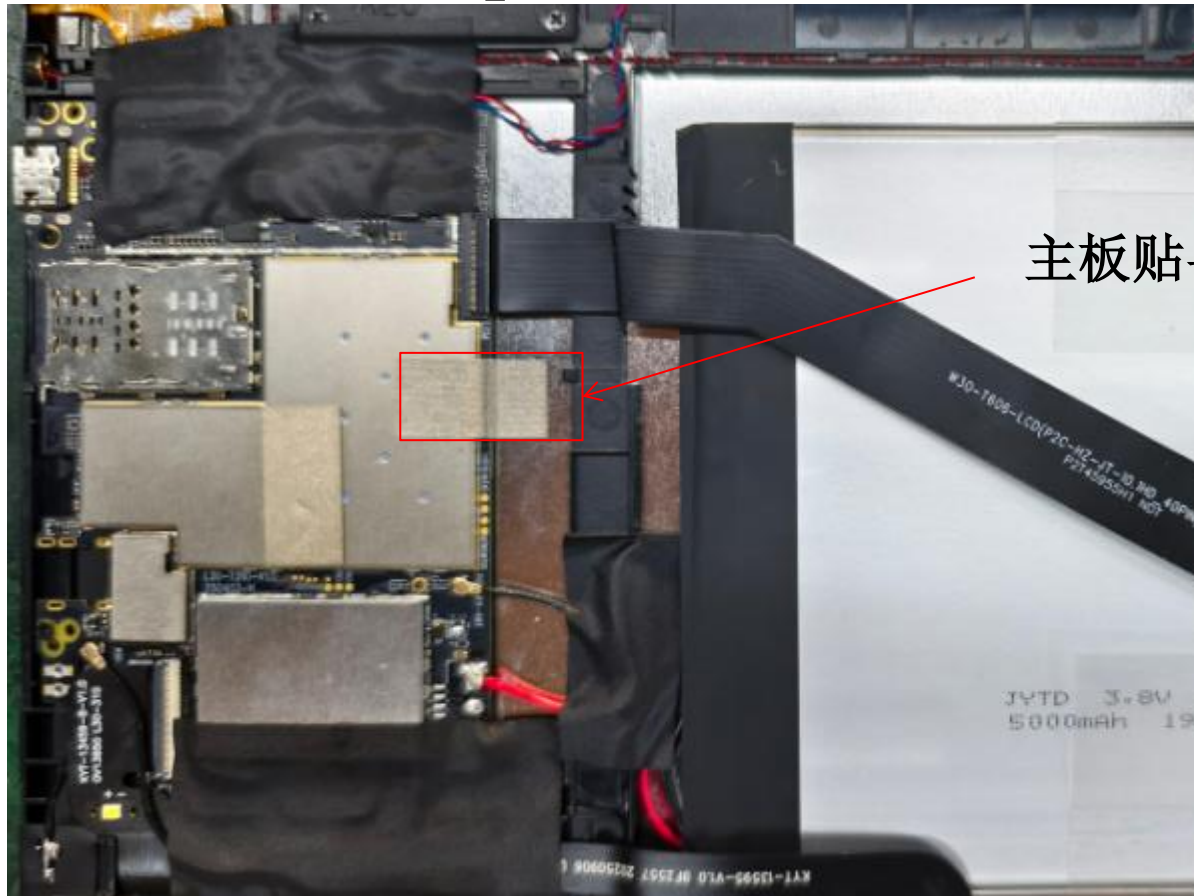
2. Matching Circuits-主天线



位号	匹配值
E1	NC
E2	2.5pF
E3	15nH

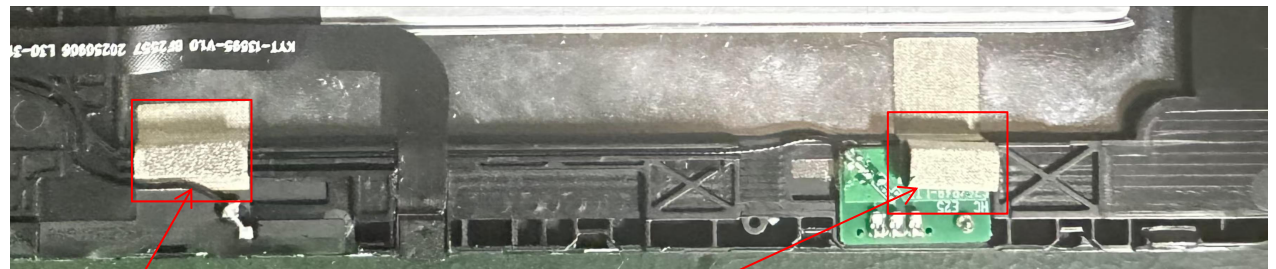
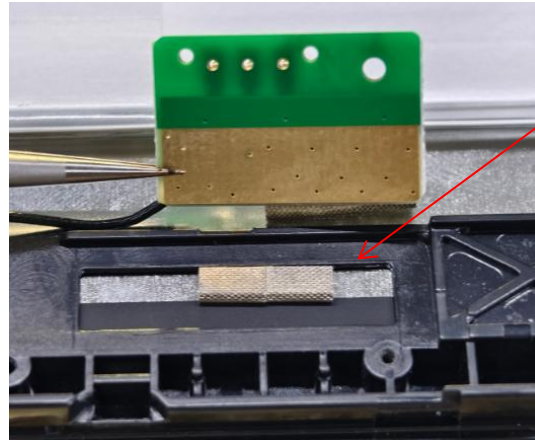


3. Environmental Disposal

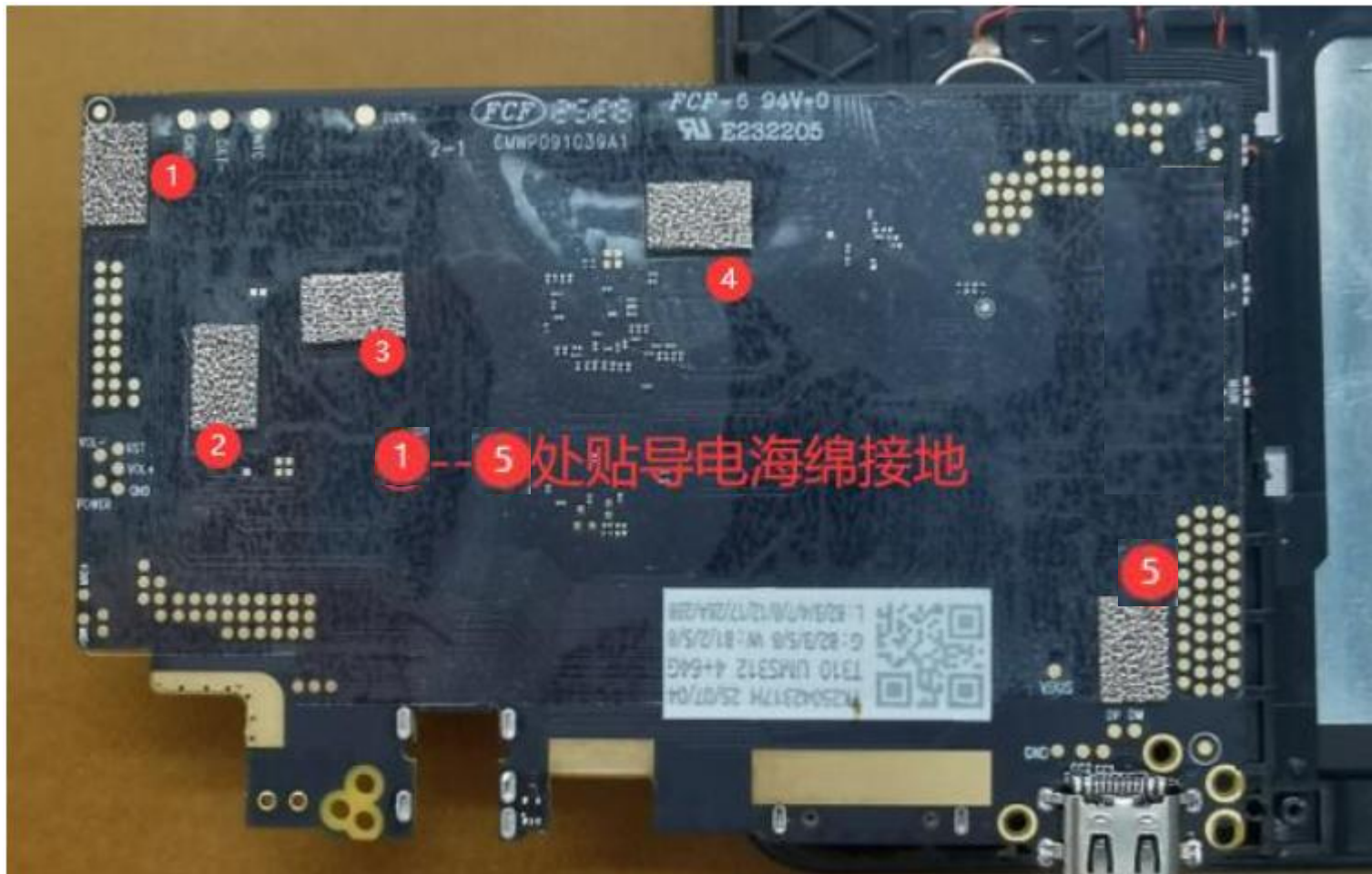


主板贴导电布接地

小板下方露铜区贴导电泡
棉与屏幕接地



主板/三合一天线/小板在红框处贴导电泡棉与后壳接地



4.Test Data

Band	Chan	Type	TRP/TIS
FDD_B2	18650	Trp	15.45
FDD_B2	19150	Trp	14.04
FDD_B2	19150	Tis	-88.26
FDD_B3	19250	Trp	18.12
FDD_B3	19900	Trp	16.96
FDD_B3	19900	Tis	-90.93
FDD_B4	20000	Trp	18.66
FDD_B4	20350	Trp	18.66
FDD_B4	20350	Tis	-90.93
FDD_B5	20450	Trp	18.66
FDD_B5	20600	Trp	17.69
FDD_B5	20600	Tis	-90.52
FDD_B7	20800	Trp	15.1
FDD_B7	21400	Trp	14.82
FDD_B7	21400	Tis	-90.47
FDD_B8	21500	Trp	12.96
FDD_B8	21750	Trp	11.3
FDD_B8	21750	Tis	-87.48
FDD_B17	23780	Trp	17.67
FDD_B17	23800	Trp	18.63
FDD_B17	23800	Tis	-90.81
FDD_B28	27260	Trp	17.81
FDD_B28	27610	Trp	17.54
FDD_B28	27610	Tis	-90.37
FDD_B66	132022	Trp	18.33
FDD_B66	132622	Trp	17.93
FDD_B66	132622	Tis	-86.8
TDD_B38	37850	Trp	10.87
TDD_B38	38150	Trp	11.08
TDD_B38	38150	Tis	-89.69

Band	Chan	Type	TRP/TIS
GSM850	128	Trp	27.46
GSM850	251	Trp	26.77
GSM850	251	Tis	-102.8
GSM900	1	Trp	25.6
GSM900	124	Trp	22.42
GSM900	124	Tis	-96.12
DCS1800	512	Trp	24.93
DCS1800	885	Trp	24.7
DCS1800	885	Tis	-99.75
PCS1900	512	Trp	23.81
PCS1900	810	Trp	21.95
PCS1900	810	Tis	-103.39
WCDMA_B1	9612	Trp	14.62
WCDMA_B1	9888	Trp	18.54
WCDMA_B1	10838	Tis	-98.59
WCDMA_B1	9612	Trp	15.9
WCDMA_B2	9538	Trp	14.63
WCDMA_B2	9938	Tis	-102.69
WCDMA_B5	4132	Trp	18.02
WCDMA_B5	4233	Trp	16.93
WCDMA_B5	4458	Tis	-103.4
WCDMA_B8	2712	Trp	12.51
WCDMA_B8	2863	Trp	10.76
WCDMA_B8	3088	Tis	-98.51

Band	Chan	Type	TRP/TIS
WIFI_2G	1	Trp	13.75
WIFI_2G	1	Tis	15.13
WIFI_2G	6	Trp	13.19
WIFI_2G	6	Tis	-67.51
WIFI_2G	11	Trp	-67.8
WIFI_2G	11	Tis	-66.99
WIFI_5G	36	Trp	12.56
WIFI_5G	36	Tis	10.7
WIFI_5G	165	Trp	-70.93
WIFI_5G	165	Tis	-69.93

GPS实测报告	
位 置	测试结果
我司窗台	冷启动90秒定位, 最大CN值42可使用星数7颗以上.



5.主天线效率/增益

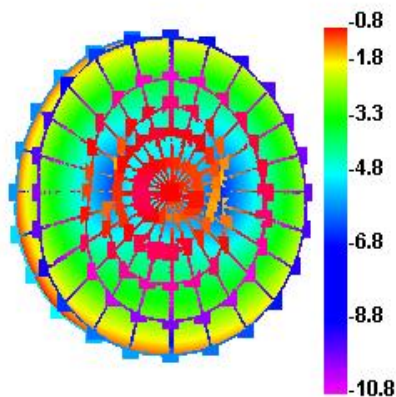
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
710	7.84	-7.15	1890	15.69	-2.61	1810	37.14	0.57
720	12.75	-4.88	1900	17.75	-2.48	1820	35.42	0.48
730	17.46	-2.99	1910	21.37	-2.05	1830	33.43	0.21
740	21.36	-1.72	1920	25.57	-0.97	1840	30.66	-0.39
750	27.27	-0.76	1930	26.41	-0.61	1850	27.04	-1.03
760	34	-0.18	1940	28.88	-0.02	1860	22.05	-2.21
770	36.17	-0.44	1950	29.44	0.29	1870	18.3	-3.01
780	47.19	0.38	1960	32.05	0.88	1880	16.05	-2.69
790	54.25	0.85	1970	31.92	0.93	2500	21.53	-1.53
800	53.6	0.74	1980	31.8	0.82	2510	24.87	-0.92
810	49.08	0.5	1990	34.29	1.19	2520	24.46	-1.05
820	45.32	0.13	2000	35.02	1.37	2530	25.67	-0.88
830	40.26	-0.5	2010	37.64	1.83	2540	26.57	-1.15
840	30.99	-1.25	2020	38.4	2.12	2550	25.35	-1.33
850	24.42	-1.72	2030	37.72	2.29	2560	28.74	-0.89
860	19	-2.54	2040	39.64	2.6	2570	28.81	-0.81
870	15.77	-3.35	2050	39.1	2.47	2580	29.59	-0.61
880	10.81	-5.12	2060	37.87	2.22	2590	30.46	-0.41
890	7.63	-6.73	2070	36.94	1.98	2600	29.36	-0.59
1710	32.81	-0.79	2080	34.17	1.4	2610	30.84	-0.25
1720	34.23	-0.58	2090	36.81	1.29	2620	31.38	-0.05
1730	35.69	-0.39	2100	36.23	1.2	2630	30.28	-0.02
1740	37.25	-0.09	2110	36.95	1.31	2640	30.77	0.21
1750	37.72	-0.01	2120	36.3	1.34	2650	29.77	0.12
1760	37.93	0.12	2130	36.24	1.36	2660	30.44	0.31
1770	38.96	0.27	2140	35.18	1.14	2670	30.87	0.21
1780	38.47	0.41	2150	34.33	0.74	2680	28.48	-0.24
1790	38.97	0.5	2160	31.31	0.32	2690	28.66	-0.28
1800	38.6	0.65	2170	26.51	-0.35			

6.GWB天线效率/增益

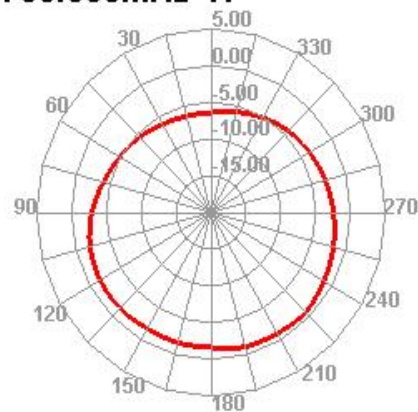
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
1575	31.88	1.81	5100	52.27	1.96
2400	26.06	1.2	5110	28.22	-0.66
2410	18.24	-0.33	5120	27.94	-0.68
2420	18.06	-0.46	5130	29.14	-0.31
2430	19.9	0.01	5140	29.3	-0.22
2440	20.32	-0.01	5150	29.23	-0.14
2450	19.55	-0.29	5160	29.15	-0.04
2460	20.9	-0.03	5170	29.56	0.05
2470	19.4	-0.37	5180	28.87	0.1
2480	20.73	-0.07	5190	29.15	0.2
2490	20.19	-0.3	5200	27.66	0.05
2500	7.54	-6.49	5210	27.85	0.13
			5220	27.28	0.06
			5610	30.71	-0.39
			5620	29.93	-0.75
			5630	32.42	-0.53
			5640	31.36	-0.77
			5650	33.68	-0.51
			5660	34.08	-0.32
			5670	32.8	-0.58
			5680	33.3	-0.47
			5690	32.35	-0.3
			5700	31.78	-0.27
			5710	31.34	-0.11
			5720	29.18	-0.23
			5730	29.46	-0.07
			5740	27.96	-0.11
			5750	27.82	-0.07
			5760	26.77	-0.13
			5770	26	-0.27
			5780	25.8	-0.34
			5790	25.2	-0.51
			5800	26.31	-0.46

7.主天线苹果图

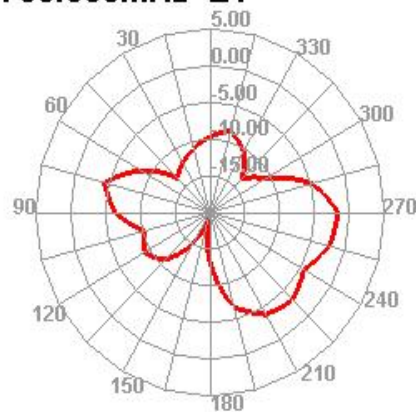
750.000MHz



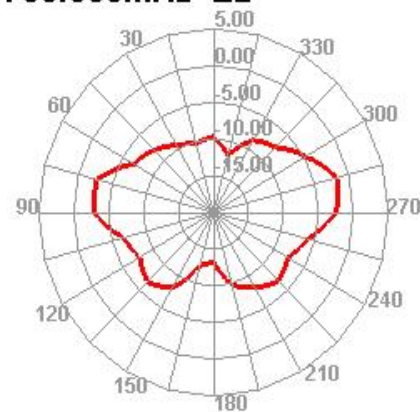
750.000MHz H



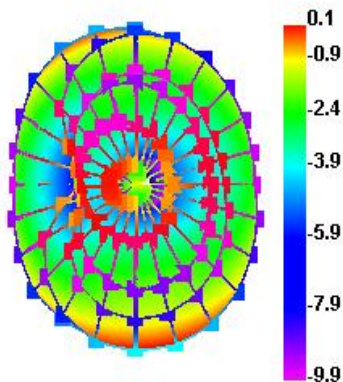
750.000MHz E1



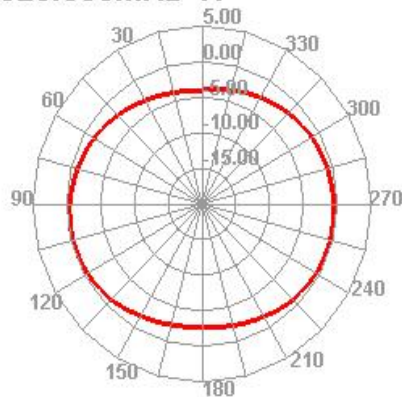
750.000MHz E2



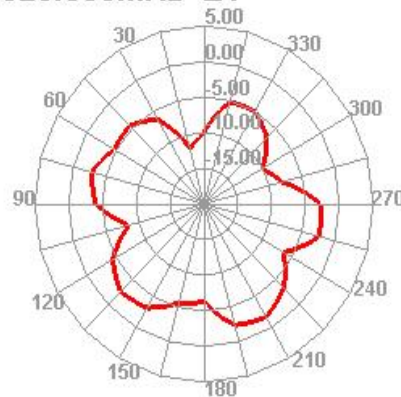
820.000MHz



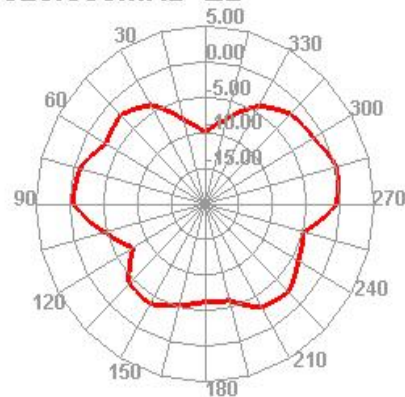
820.000MHz H



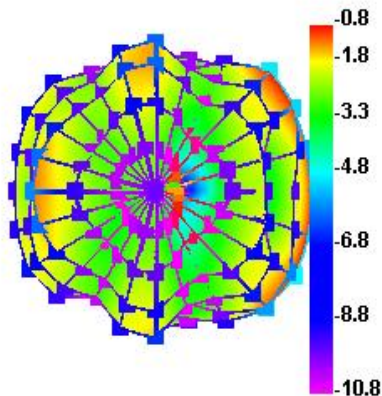
820.000MHz E1



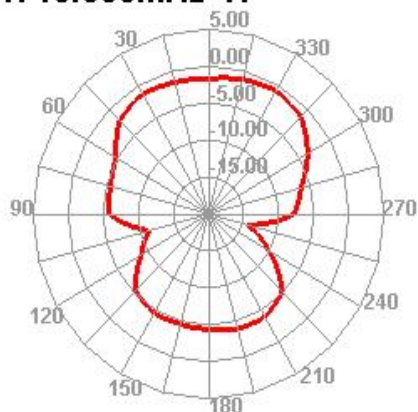
820.000MHz E2



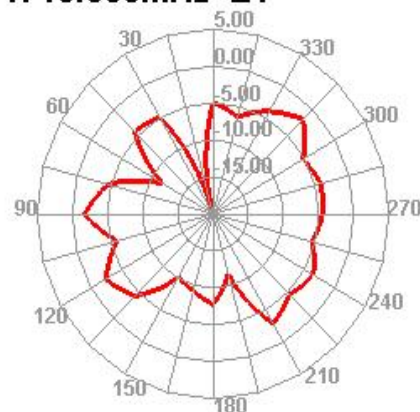
1710.000MHz



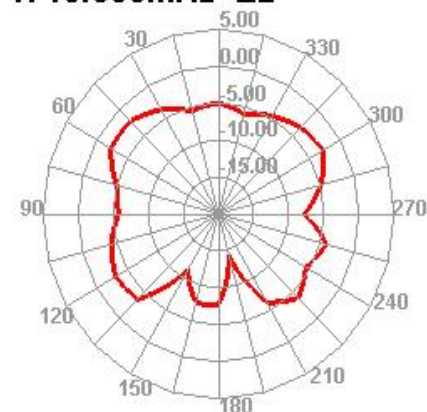
1710.000MHz H



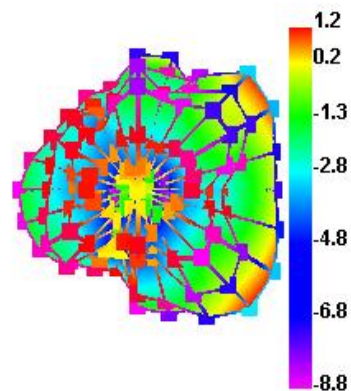
1710.000MHz E1



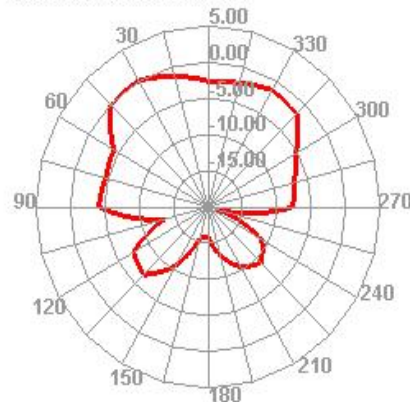
1710.000MHz E2



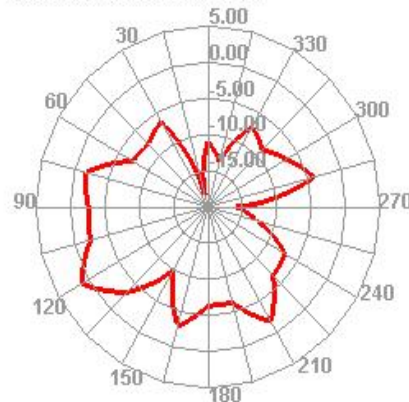
1990.000MHz



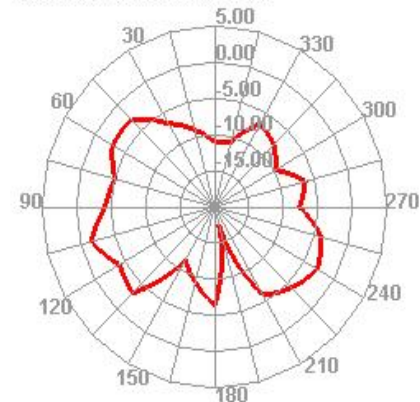
1990.000MHz H



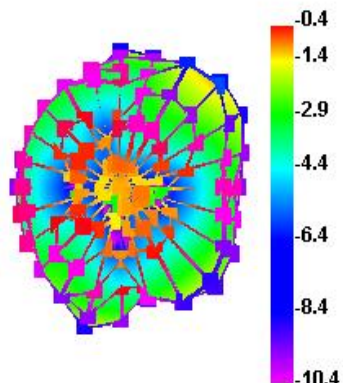
1990.000MHz E1



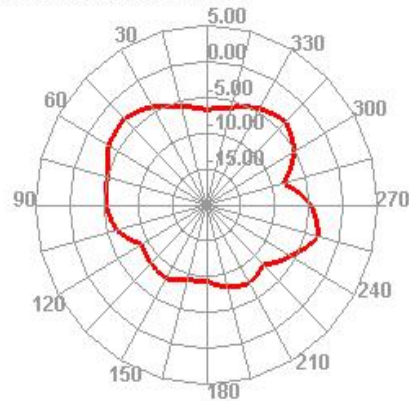
1990.000MHz E2



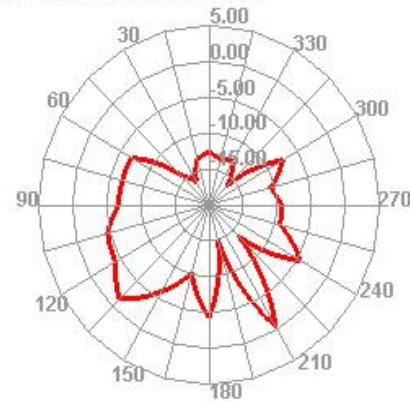
2170.000MHz



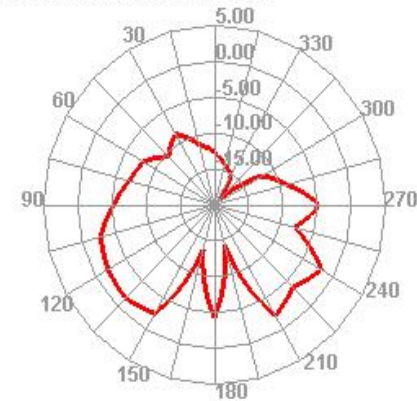
2170.000MHz H



2170.000MHz E1



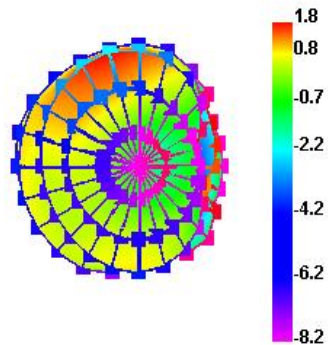
2170.000MHz E2



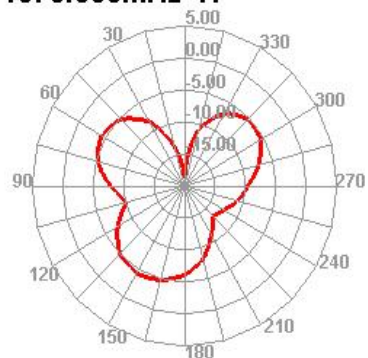
mr

8.GWB天线苹果

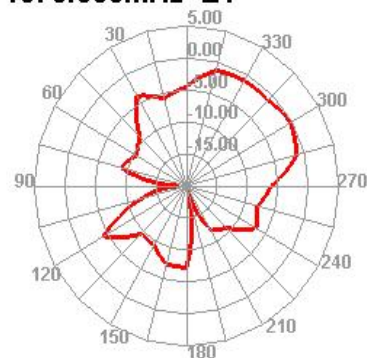
1575.000MHz



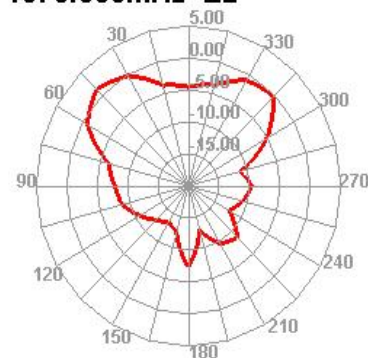
1575.000MHz H



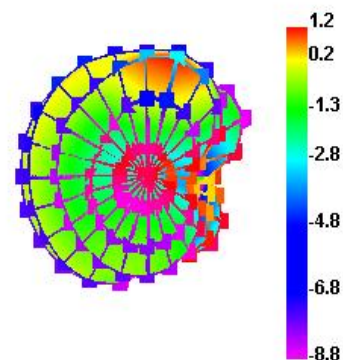
1575.000MHz E1



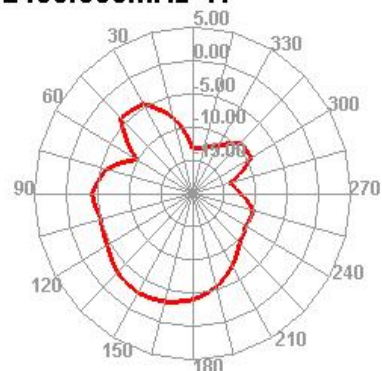
1575.000MHz E2



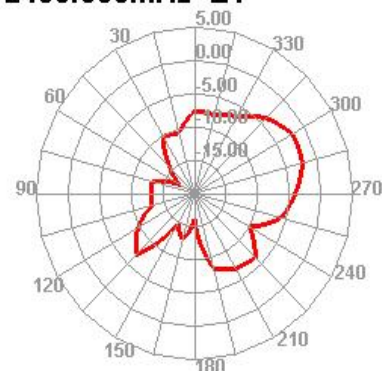
2400.000MHz



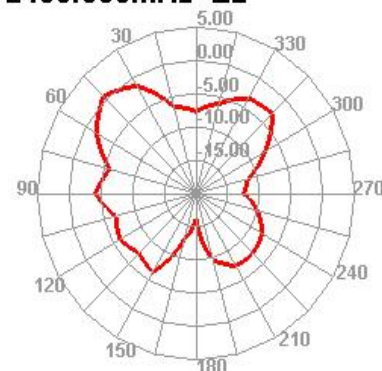
2400.000MHz H



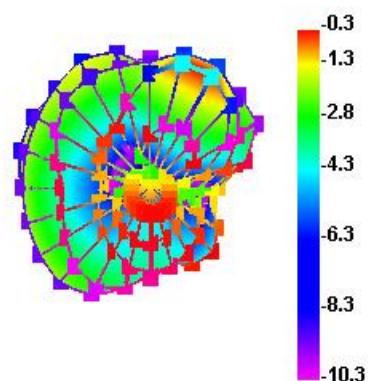
2400.000MHz E1



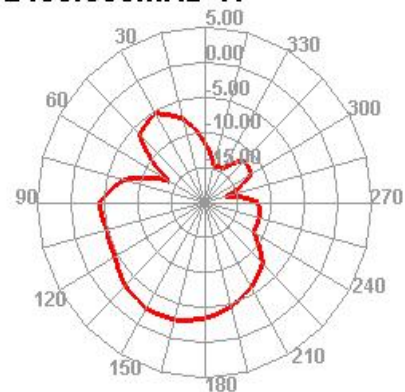
2400.000MHz E2



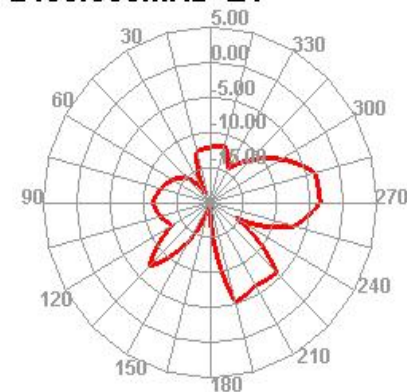
2450.000MHz



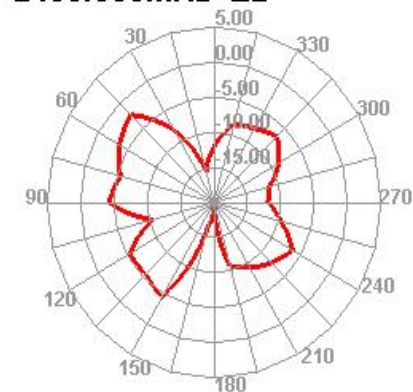
2450.000MHz H



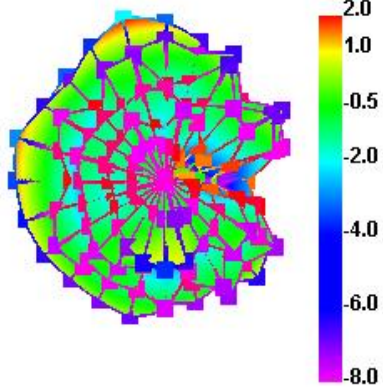
2450.000MHz E1



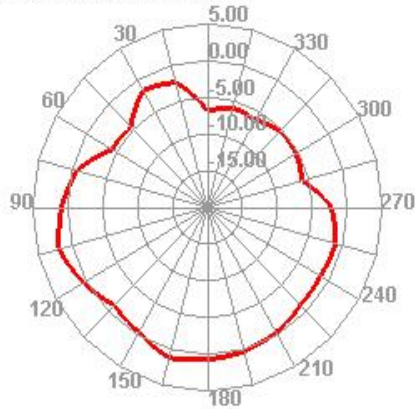
2450.000MHz E2



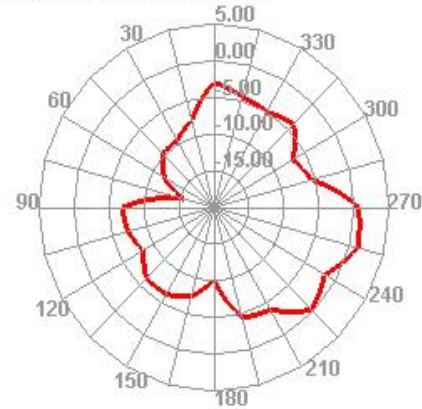
5100.000MHz



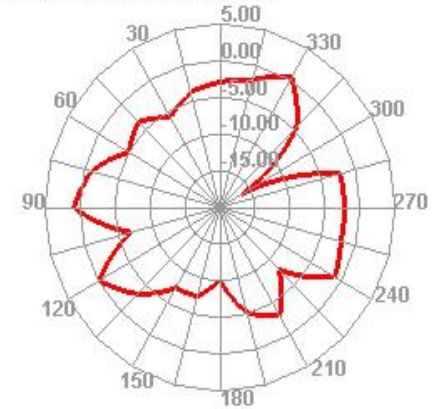
5100.000MHz H



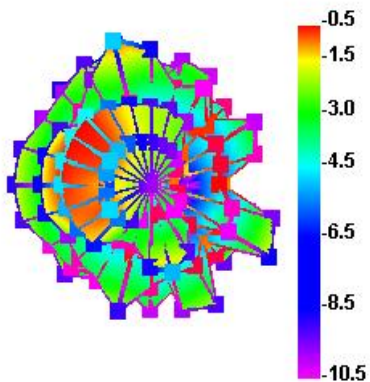
5100.000MHz E1



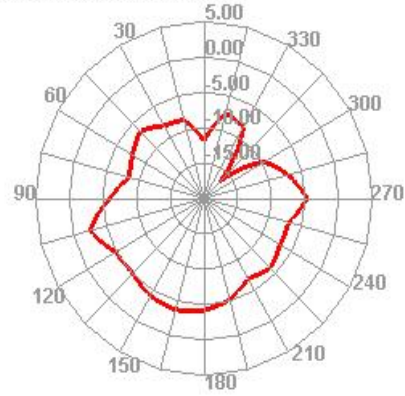
5100.000MHz E2



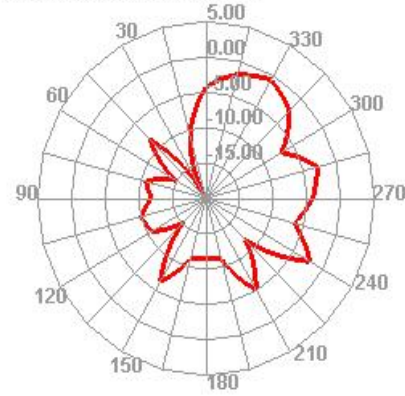
5800.000MHz



5800.000MHz H



5800.000MHz E1



5800.000MHz E2

