



上海磊勋电子科技有限公司
Shanghai Leixun Electronic Technology Co., Ltd.

Test report



Customer name	Topwise	Project Name	Z1542
Debug the frequency band	2/3/4G WIFI:2.4G-5G	Structural mode	FPC



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Main antenna gain & efficiency

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
700	17.67	-0.07	1700	50.8	3.58	2240	36.78	2.96
710	16.37	-0.13	1720	51.35	3.9	2260	31.43	1.98
720	16.93	-0.15	1740	48.21	3.76	2280	34.39	1.88
730	16.4	-0.21	1760	45.81	3.85	2300	35.6	1.48
740	17.21	-0.56	1780	43.86	3.25	2320	41.14	1.86
750	19.45	-0.5	1800	46.62	3.54	2340	44.62	1.77
760	24.57	-0.38	1820	49.1	4.18	2360	41.02	2.07
770	25.76	-1.65	1840	43.85	4.1	2380	42.33	3.01
780	25.08	-2.28	1860	40.04	3.93	2400	43.1	3.2
790	25.66	-1.08	1880	44.7	4.72	2420	41.36	3.02
800	24.59	-0.78	1900	51.94	5.51	2440	46.31	2.89
810	29.4	0.51	1920	52.35	4.99	2460	51.25	2.91
820	30.28	0.47	1940	68.44	5.7	2480	65.1	4.05
830	30.64	0.14	1960	65.1	5.25	2500	56.47	3.59
840	28.29	-0.2	1980	61.89	5.04	2520	64.44	4
850	28.35	-0.56	2000	63.49	5.48	2540	57.04	3.5
860	27.16	-1.27	2020	45.87	4.24	2560	47.75	2.72
870	28.3	-0.95	2040	42.58	3.43	2580	55.43	2.98
880	29.94	0	2060	37.09	2.68	2600	49.55	2.11
890	37.83	0.6	2080	35.09	2.28	2620	41.03	1.54
900	42.89	1.13	2100	33.98	1.69	2640	42.95	2.02
910	46.62	1.84	2120	39.73	2.17	2660	42.78	1.33
920	41.18	0.84	2140	45.73	2.84	2680	39.91	1.1
930	39.51	0.76	2160	40.27	2.7	2700	39.78	1.17
940	35.27	0.47	2180	46.23	3.95			
950	40	1.02	2200	42.9	4.04			
960	36.67	0.53	2220	37.84	3.41			

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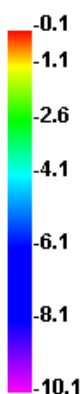
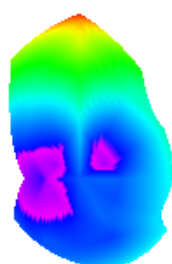


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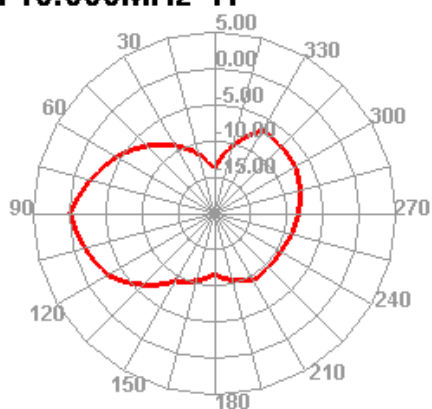
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Direction chart & Apple

710.000MHz

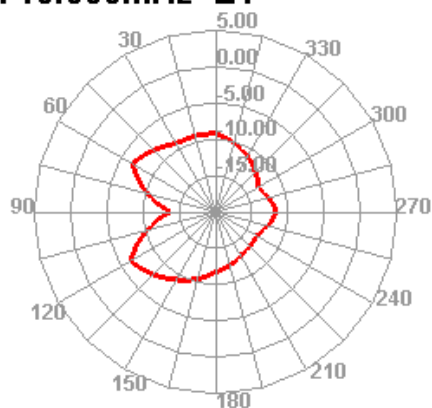


710.000MHz H

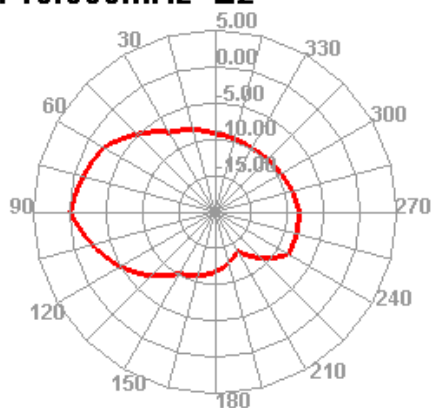


chart

710.000MHz E1



710.000MHz E2



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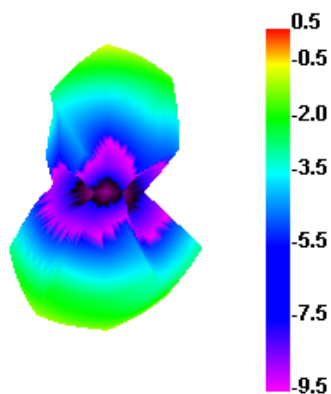
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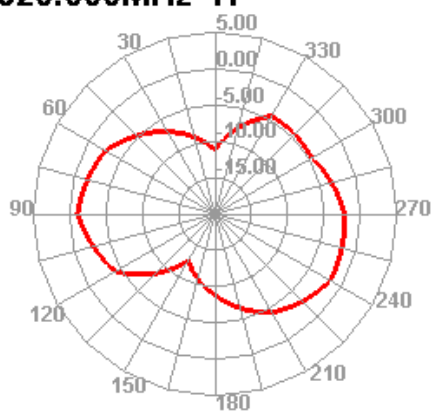
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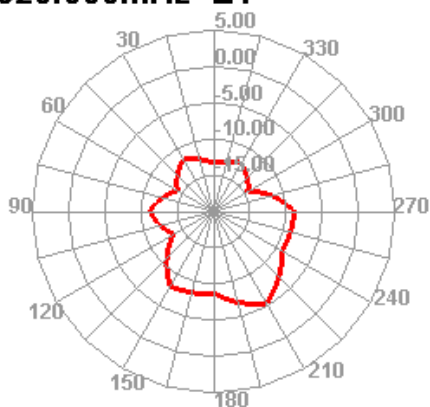
820.000MHz



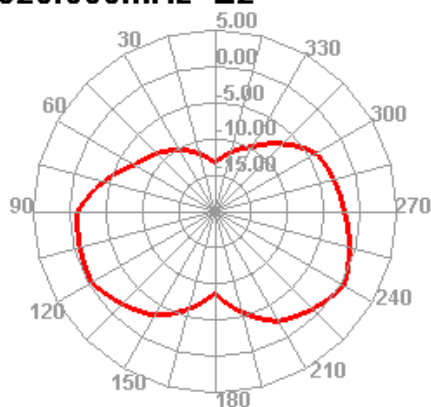
820.000MHz H



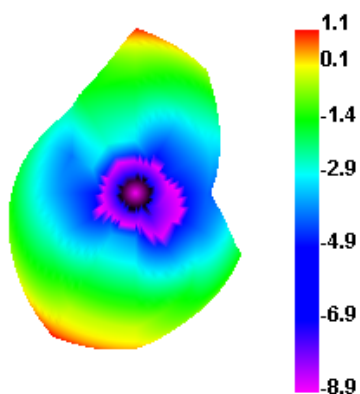
820.000MHz E1



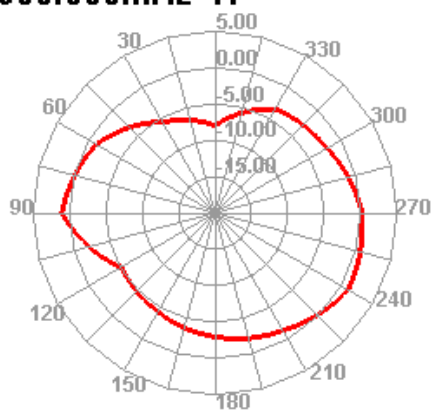
820.000MHz E2



900.000MHz



900.000MHz H



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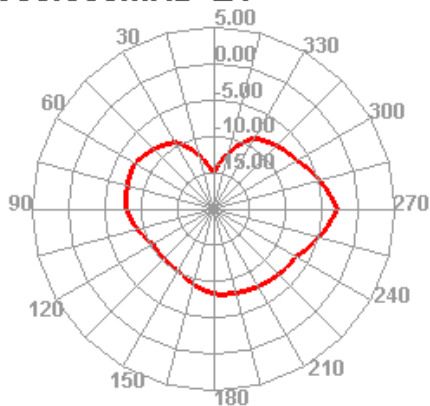
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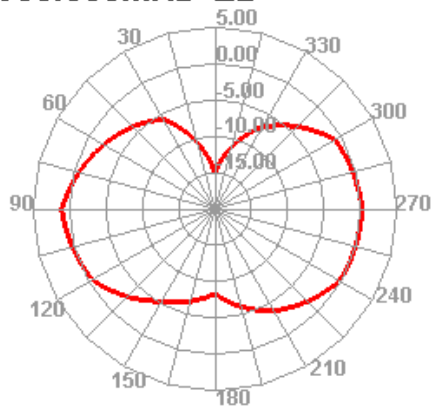
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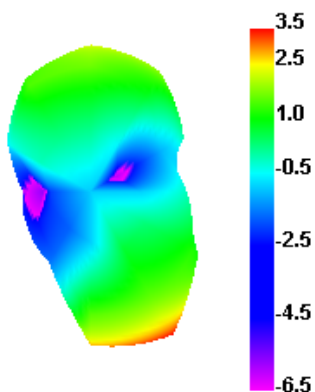
900.000MHz E1



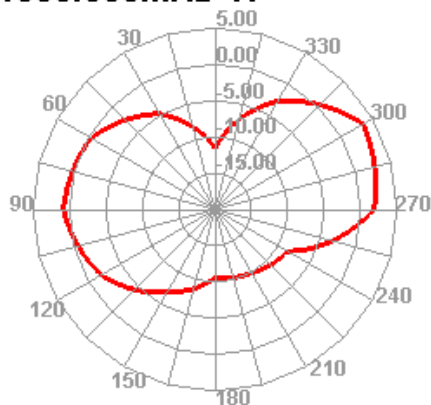
900.000MHz E2



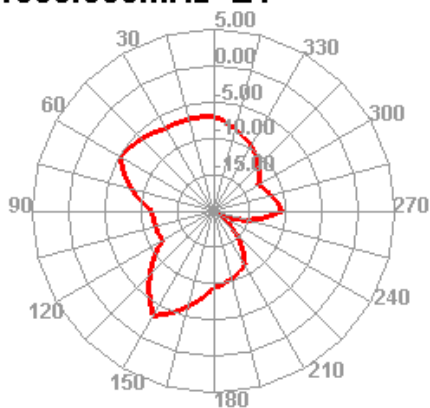
1800.000MHz



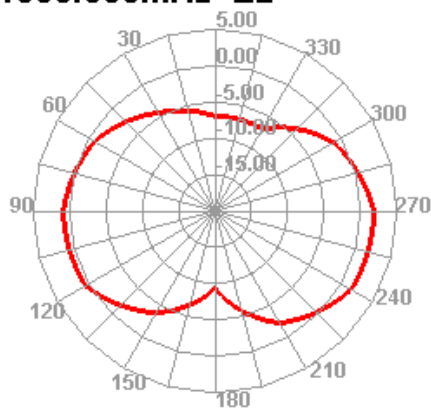
1800.000MHz H



1800.000MHz E1



1800.000MHz E2



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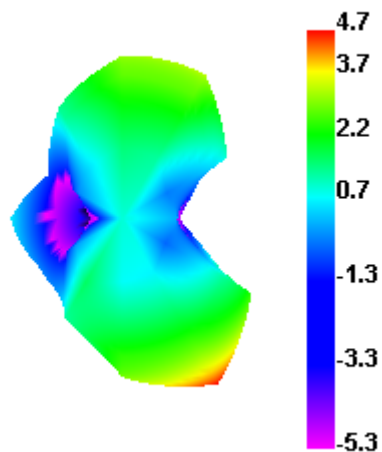
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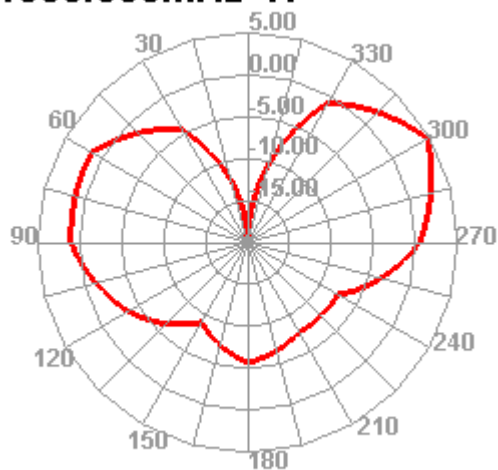
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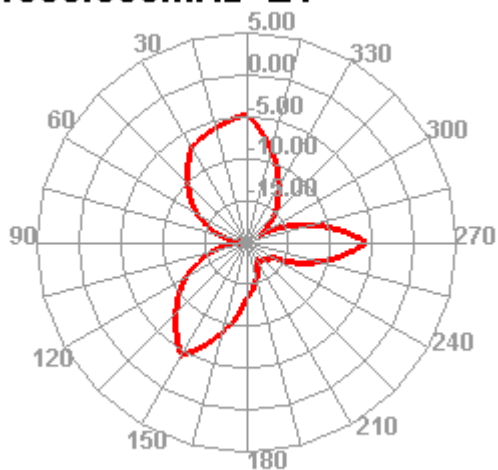
1880.000MHz



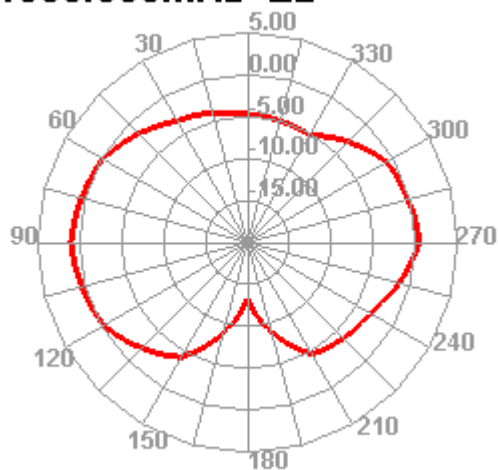
1880.000MHz H



1880.000MHz E1



1880.000MHz E2



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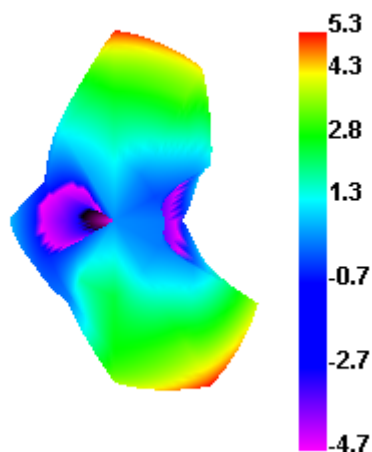
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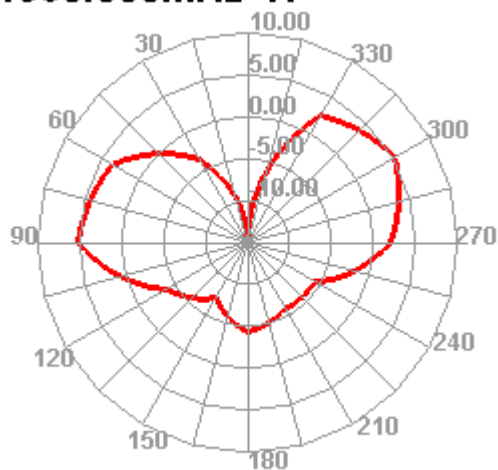
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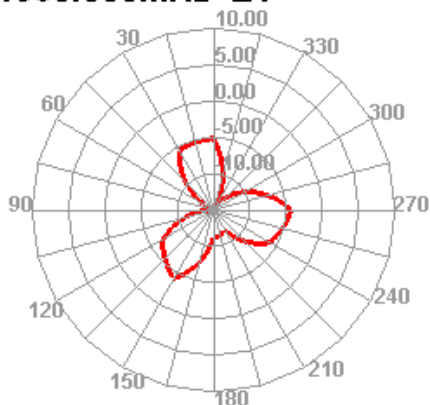
1960.000MHz



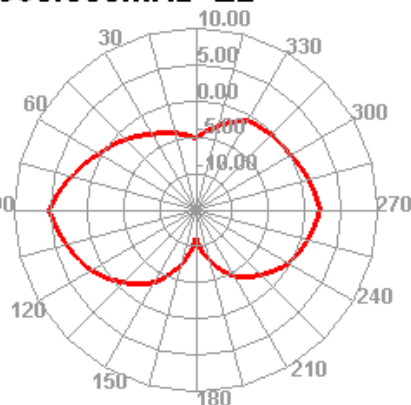
1960.000MHz H



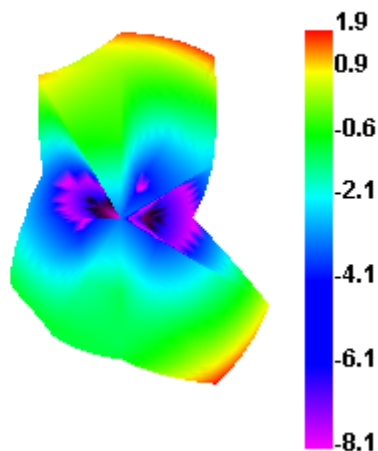
1960.000MHz E1



1960.000MHz E2



2320.000MHz



2320.000MHz H



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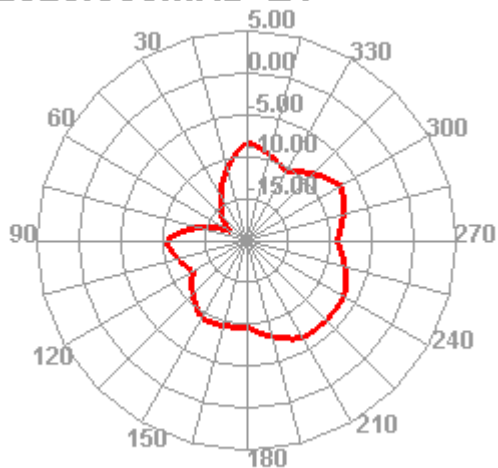
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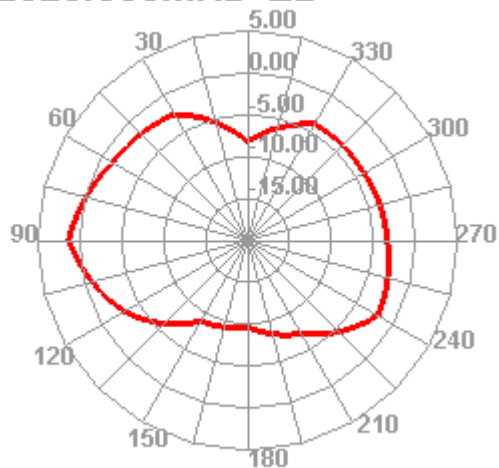
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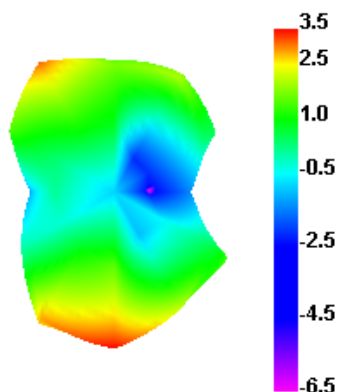
2320.000MHz E1



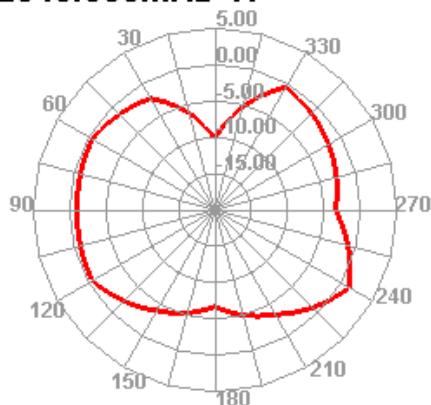
2320.000MHz E2



2540.000MHz



2540.000MHz H



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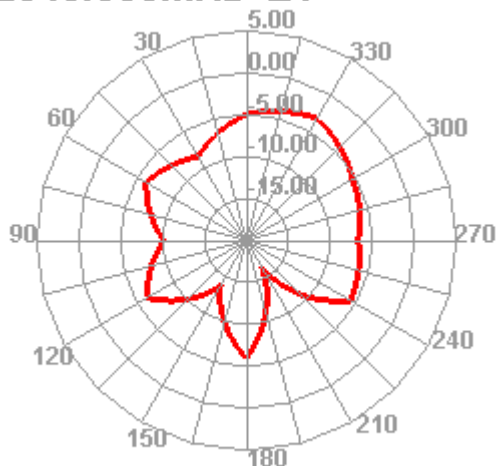
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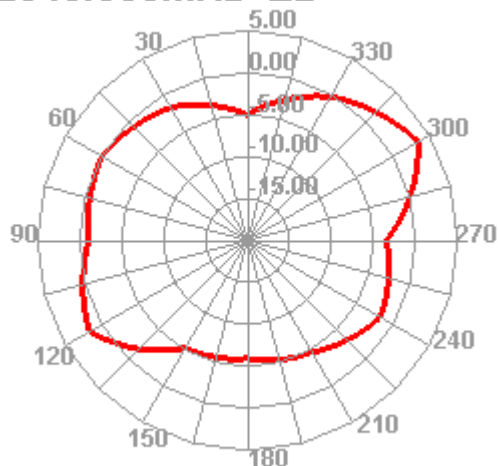
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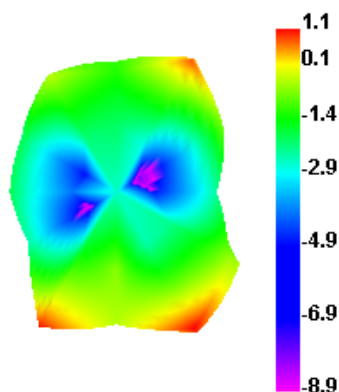
2540.000MHz E1



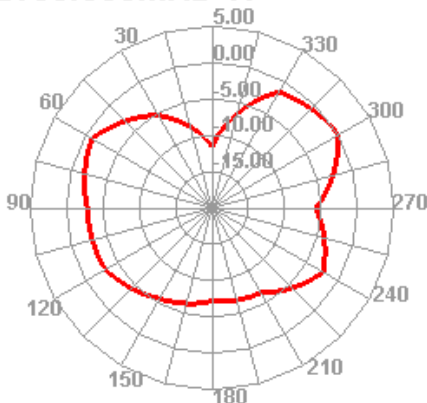
2540.000MHz E2



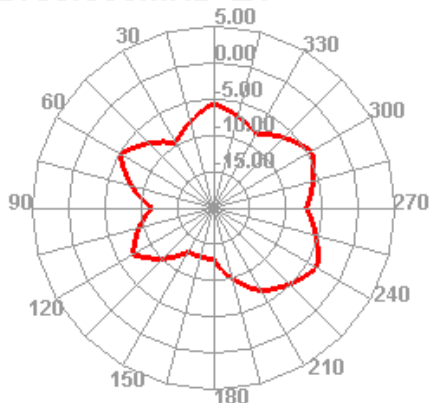
2680.000MHz



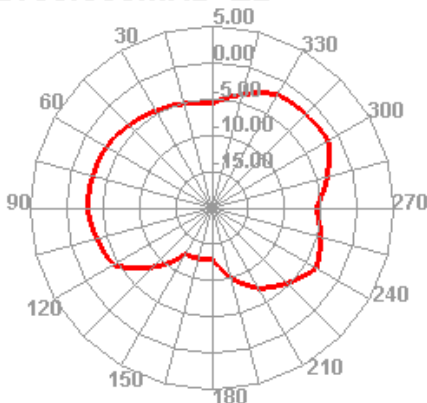
2680.000MHz H



2680.000MHz E1



2680.000MHz E2



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Three-in-one antenna gain & efficiency

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
1555	46.12	1.28	2400	45.89	2.78	5150	39.69	2.3
1557	45.24	1.23	2410	46.16	2.69	5200	44.35	2.97
1559	45.7	1.28	2420	48.49	2.87	5250	53.37	3.85
1561	46.88	1.39	2430	50.02	3.14	5300	42.12	2.93
1563	47.3	1.41	2440	54.57	3.73	5350	42.72	3.47
1565	46.34	1.29	2450	55.87	4.17	5400	45.91	4.23
1567	43.62	0.98	2460	56.27	4.25	5450	47.92	4.32
1569	41.69	0.74	2470	57.02	4.32	5500	42.15	3.48
1571	41.6	0.68	2480	64.48	4.87	5550	37.33	2.46
1573	42.43	0.71	2490	57.7	4.45	5600	31.81	2.09
1575	42.11	0.62	2500	58.5	4.74	5650	29.44	1.76
1577	39.5	0.24				5700	33.41	1.95
1579	36.7	-0.06				5750	37.28	2.14
1581	35.41	-0.15				5800	36.06	1.68
1583	36.08	0				5850	37.1	1.66
1585	37.69	0.26						

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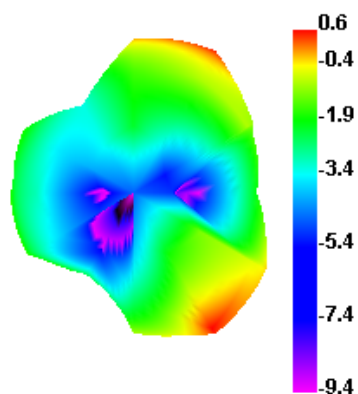


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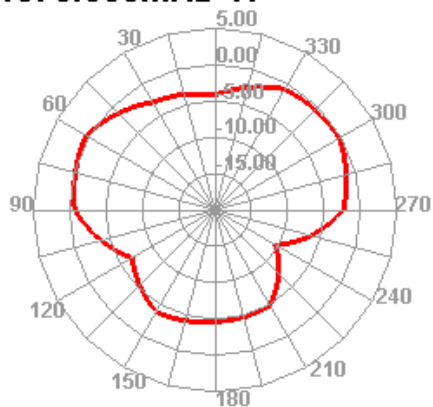
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Direction chart & Apple chart

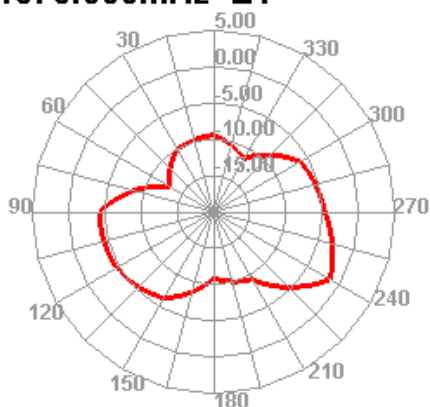
1575.000MHz



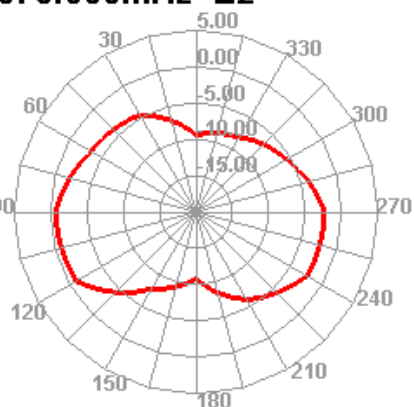
1575.000MHz H



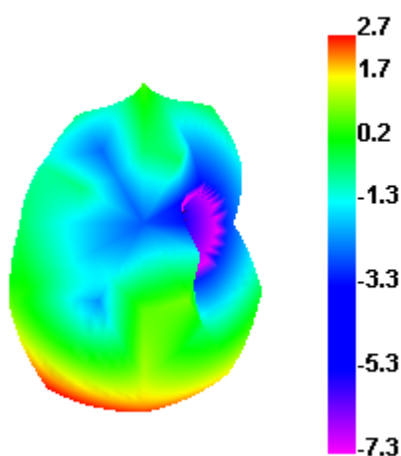
1575.000MHz E1



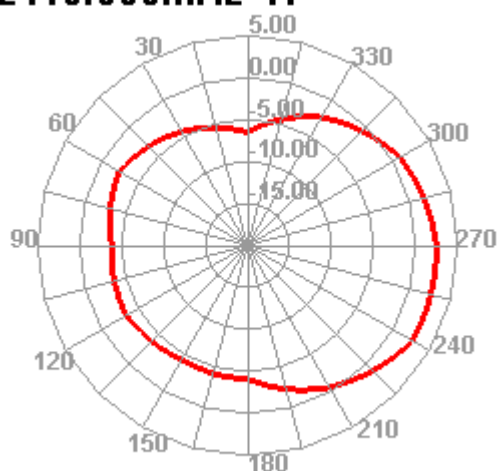
1575.000MHz E2



2410.000MHz



2410.000MHz H



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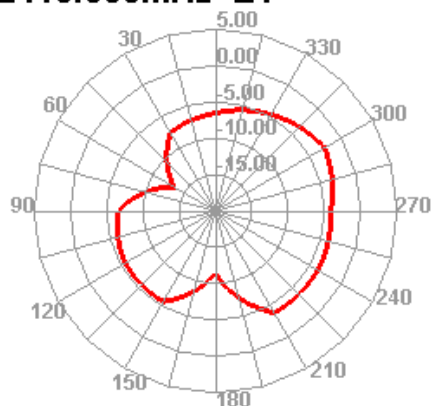
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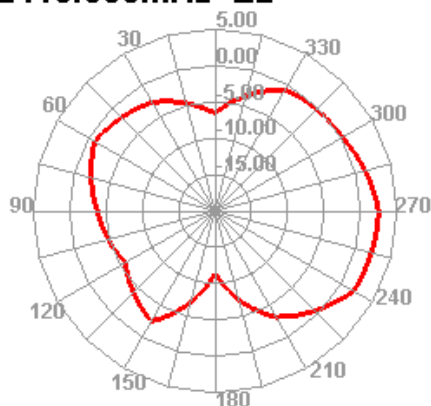
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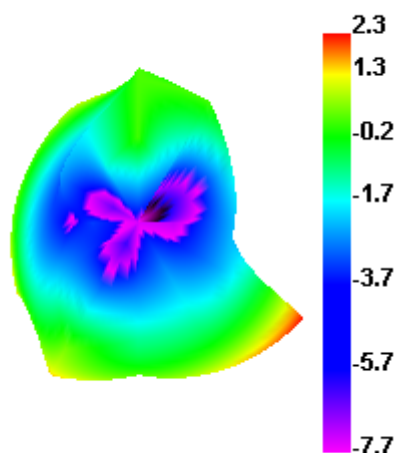
2410.000MHz E1



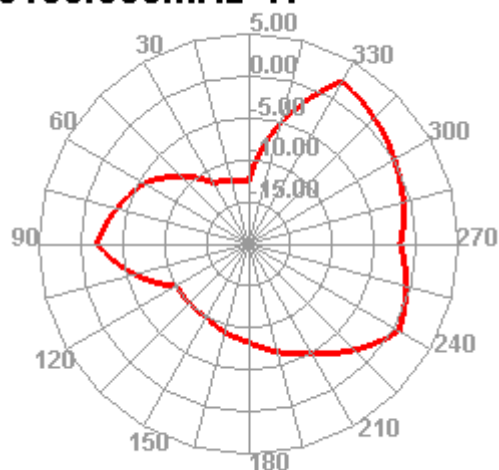
2410.000MHz E2



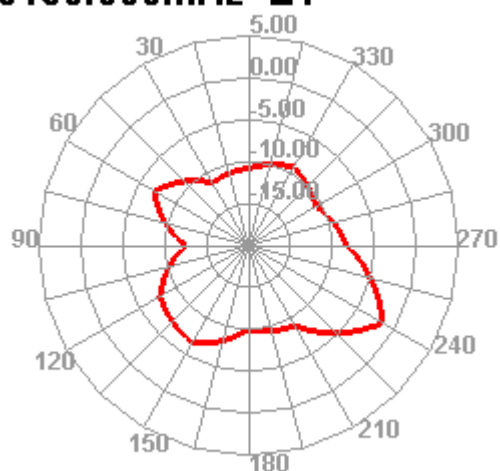
5150.000MHz



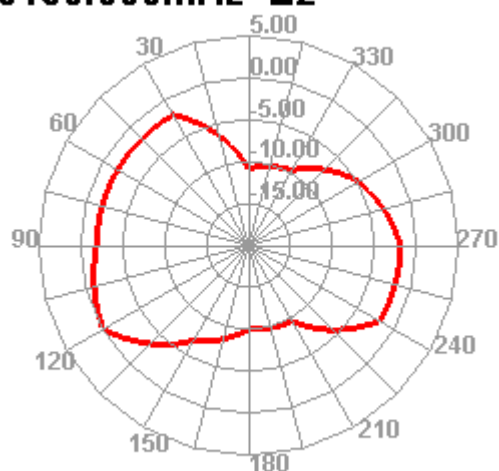
5150.000MHz H



5150.000MHz E1



5150.000MHz E2



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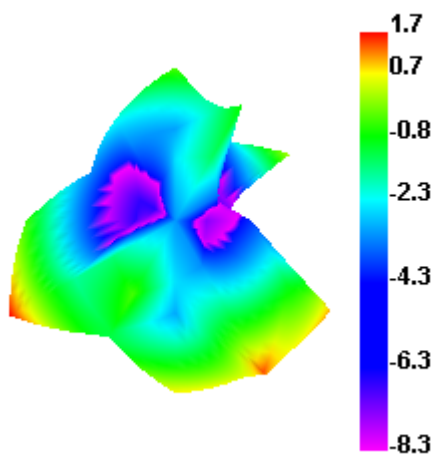
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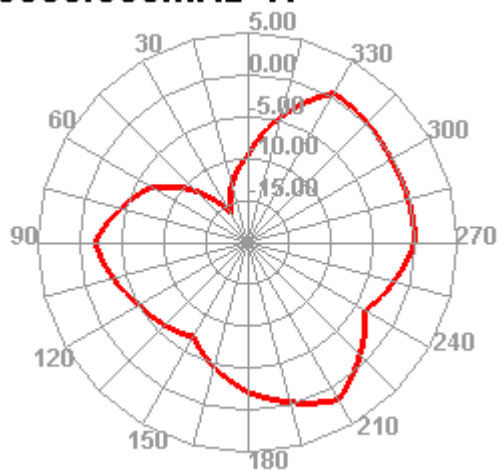
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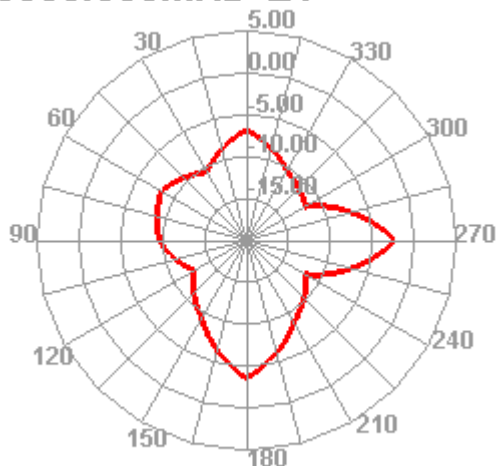
5850.000MHz



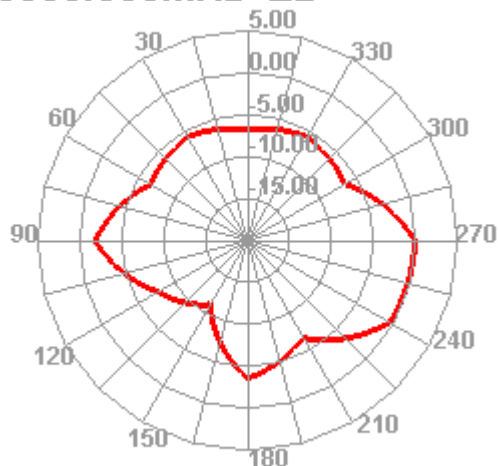
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



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Antenna picture

2/3/4G ANT



BT& BLE &2.4 /5G WIFI ANT



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