



ONE PLUS ONE
Wireless Communication

Shenzhen One Plus One Wireless Communication Technology Co., Ltd.

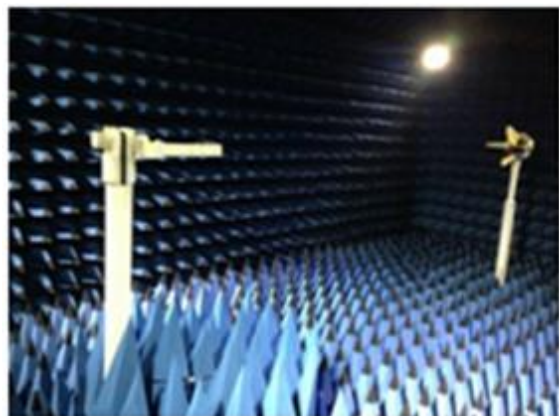


customer	Project name	RF Manager	Contact information	Test date
Great Organ Age	F2S	Yan Peitian	18778774504	20250121

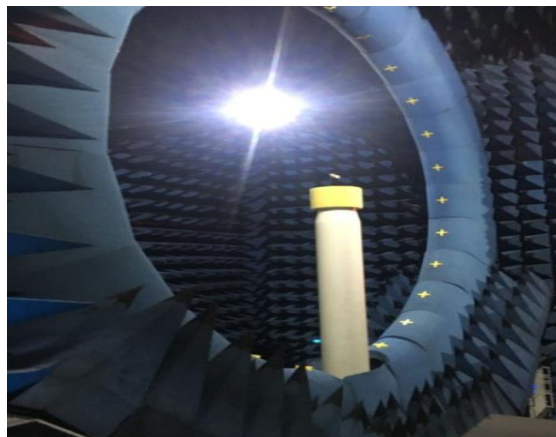


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Test equipment



ETS darkroom



SATIMO darkroom



Hand model of human head



8820C integrated measuring instrument



E5071B Network Analyzer



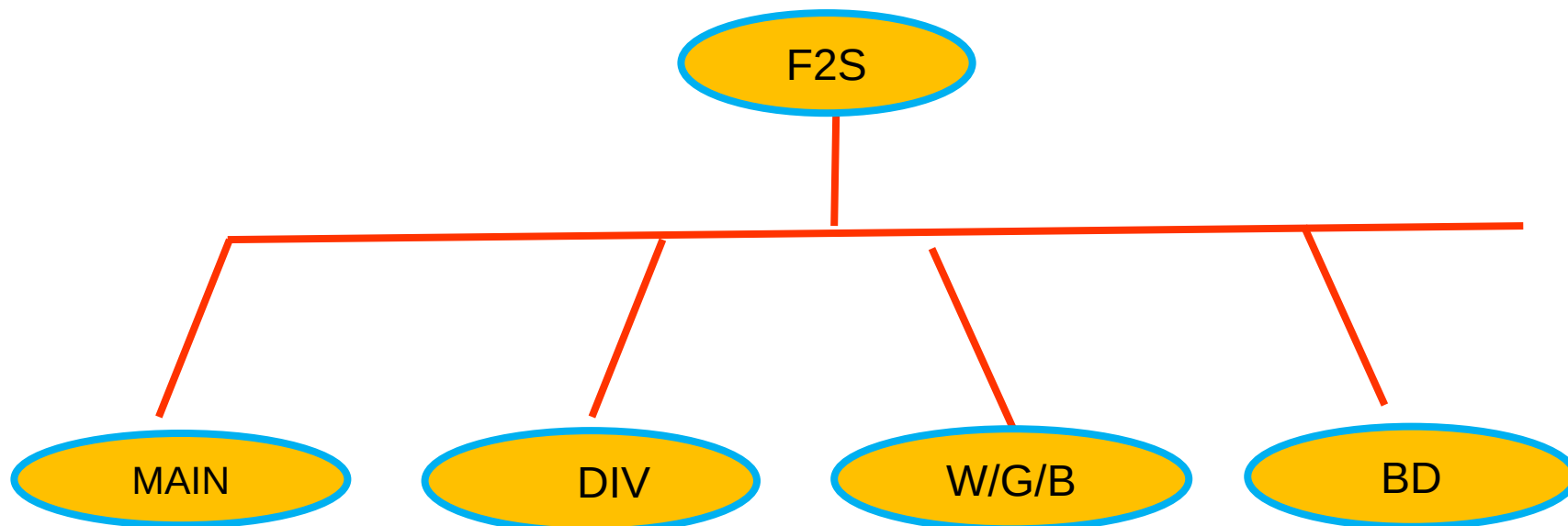
CMW 500 integrated measuring instrument

Test system	Test environment	Active test	Passive testing
SATIMO ETS	temperature:2 $2^{\circ}\text{C} \pm 2^{\circ}\text{C}$ humidness:50%	2G/3G/4G/WIFI /BT	600MHZ-6GHZ



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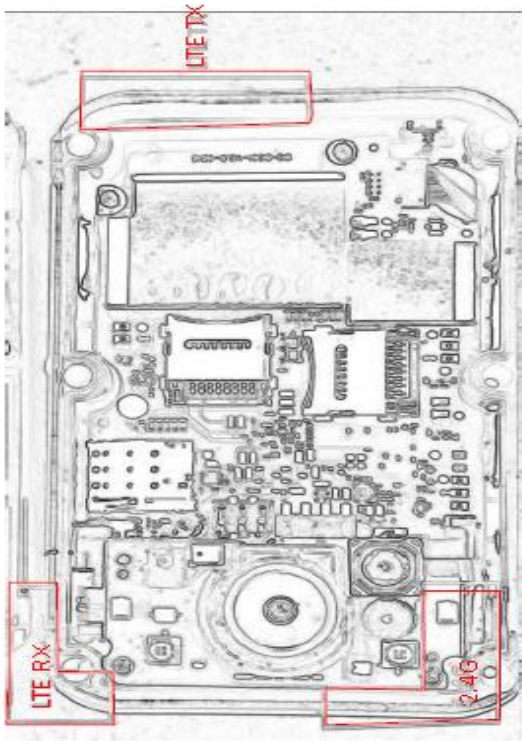
Project description



Antenna mode : FPC



Item record

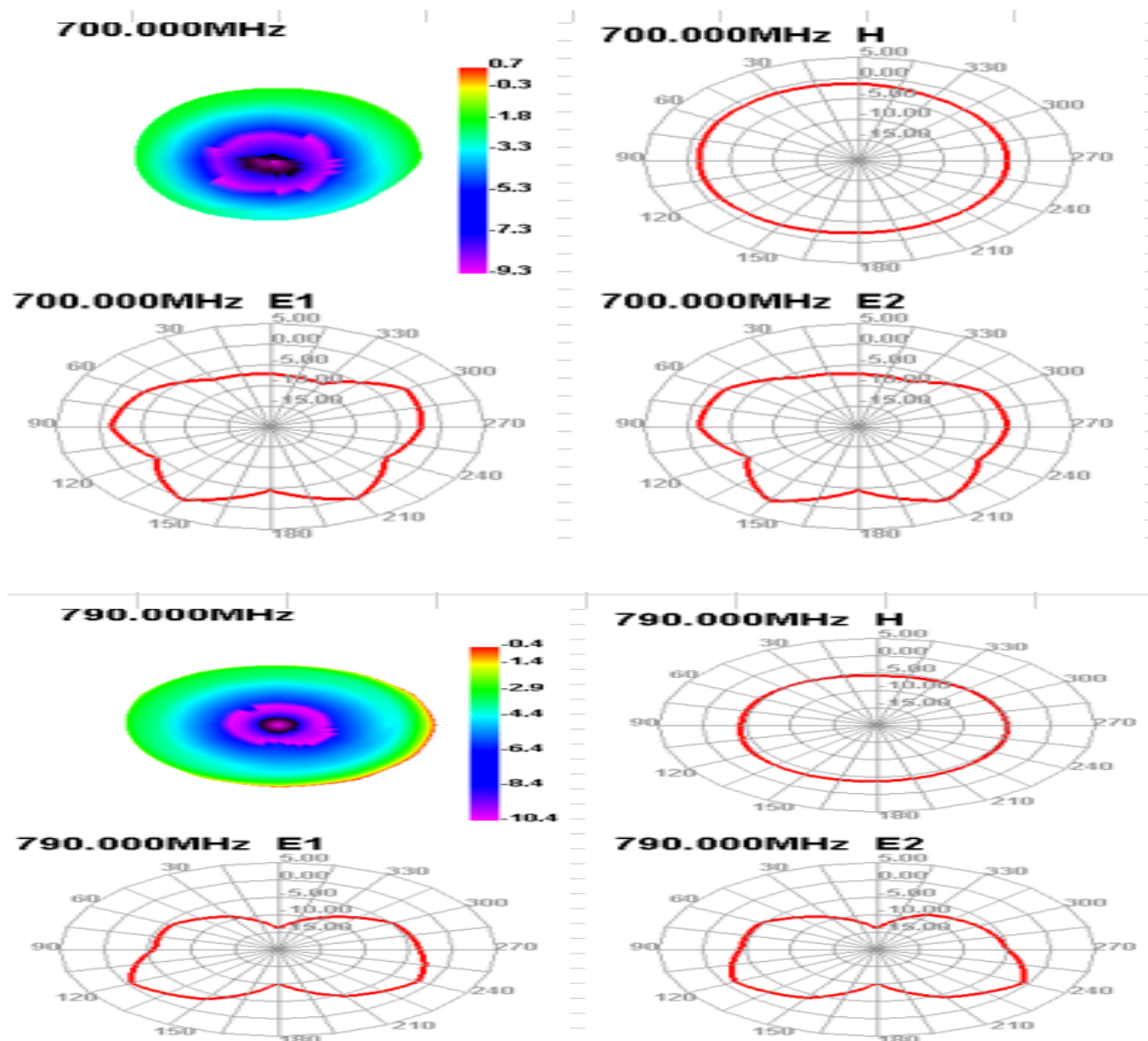


edition	time	Content description
V1	2025211	Prototype data



Main antenna efficiency 700 direction diagram

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
700	19.51	-7.1	-3.91
710	24.55	-6.1	-2.78
720	21.05	-6.77	-3.33
730	23.88	-7.24	-3.45
740	21.39	-6.7	-2.62
750	19.83	-7.03	-2.6
760	20.37	-6.91	-2.62
770	23.91	-8.26	-3.74
780	23.96	-7.97	-3.27
790	20.5	-6.88	-0.77
800	31.57	-4.25	-1.07
810	31.13	-4.08	-1.07
820	33.05	-4.81	-1.96
830	30.91	-5.1	-2.01
840	33.42	-4.76	-1.7
850	34.32	-4.64	-1.55
860	31.69	-3.8	-0.04
870	38.15	-4.19	0.04
880	41.01	-3.87	0.18
890	36.18	-4.41	-0.66
900	32.69	-4.86	-1.53
910	33.81	-4.71	-1.6
920	28.35	-5.47	-2.03
930	29.65	-5.28	-1.18
940	26.88	-5.71	-0.97
950	30.47	-5.16	-0.45
960	28.48	-5.46	-0.75
970	28.69	-6.44	-1.96
980	28.3	-6.92	-2.45
990	26.32	-7.87	-3.78

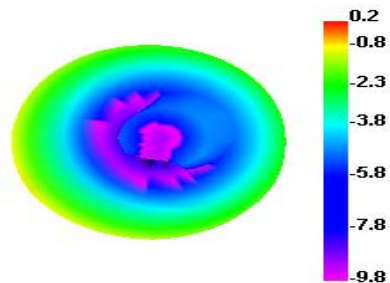




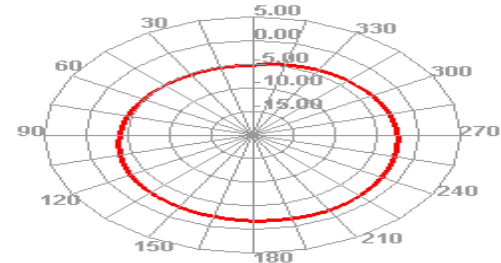
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880 pattern

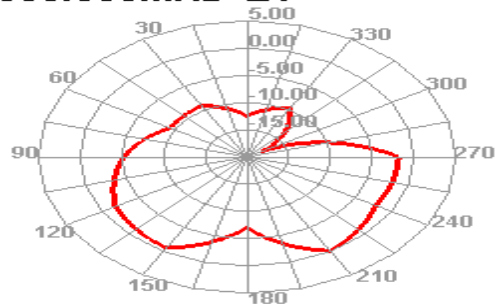
880.000MHz



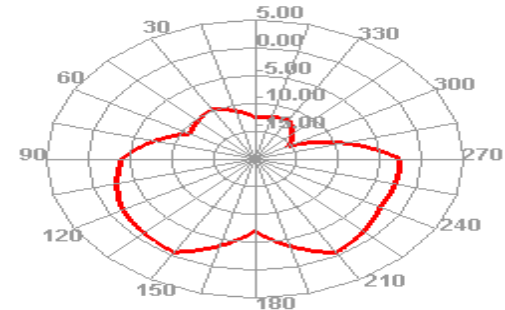
880.000MHz H



880.000MHz E1



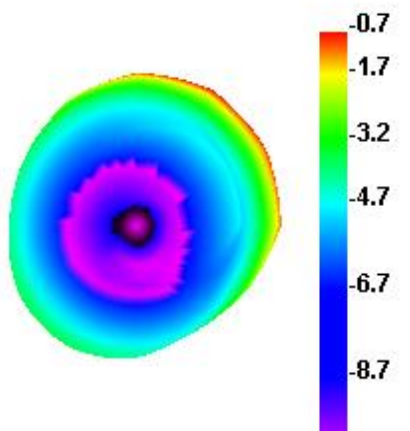
880.000MHz E2



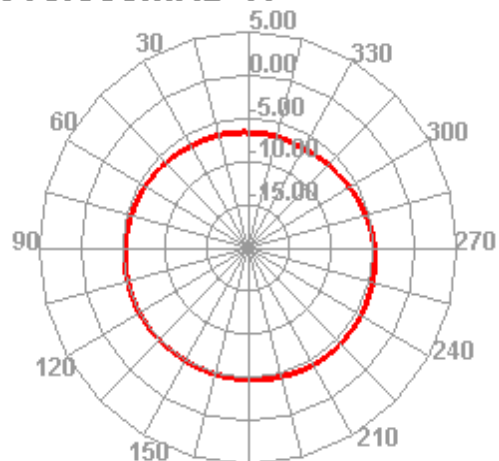


960 direction map

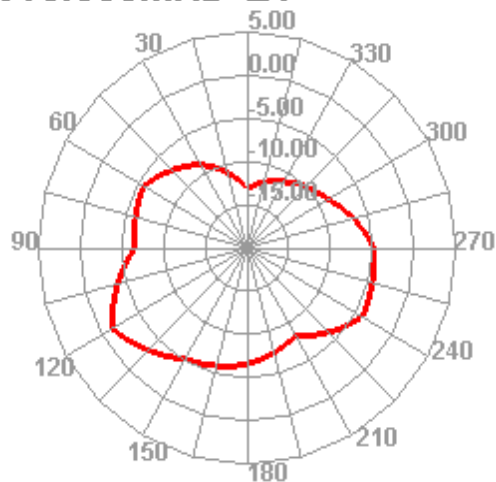
960.000MHz



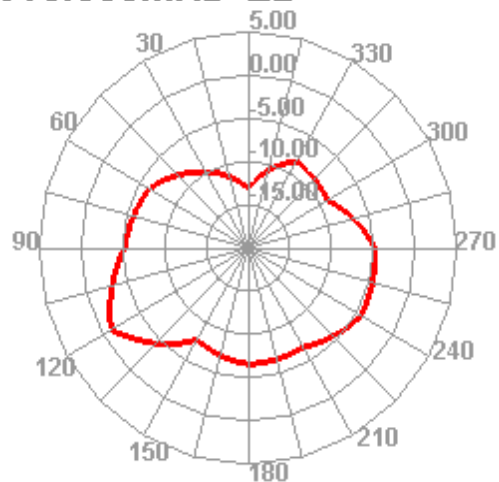
960.000MHz H



960.000MHz E1



960.000MHz E2





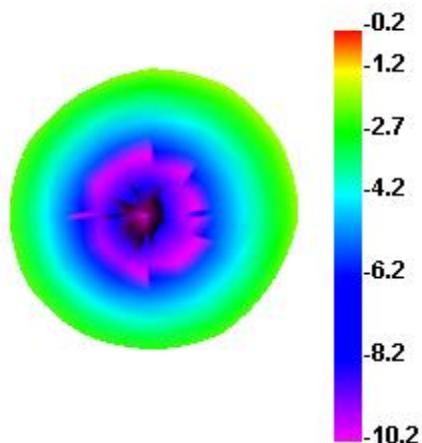
Main antenna efficiency 1700-2700 direction diagram

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	2010	31.25	-3.85	0.47	2310	28.58	-3.14	0.9	2510	24.84	-2.61	1.24
1700	31.61	-3.81	-0.16	2020	29.6	-3.05	1.35	2320	24.39	-2.64	1.35	2520	24.53	-1.9	1.65
1710	33.93	-2.68	1.04	2030	29.79	-4	0.46	2330	32.87	-2.77	1.24	2530	28.91	-2.3	0.82
1720	31.52	-2.88	1.14	2040	32.3	-2.81	1.87	2340	30.64	-2.95	0.96	2540	29.02	-2.29	0.57
1730	34.44	-2.64	1.53	2050	25.81	-3.39	1.38	2350	33.06	-2.75	1.28	2550	25.32	-2.57	0.26
1740	36.62	-2.47	1.92	2060	32.96	-3.67	1.08	2360	27.1	-3.27	0.93	2560	27.62	-1.7	1.1
1750	36.68	-3.31	1.26	2070	32.63	-2.79	1.85	2370	32.3	-2.82	1.58	2570	24.23	-1.92	1.01
1760	30.26	-2.2	2.47	2080	35.95	-3.38	0.82	2380	30.92	-2.93	1.67	2580	27.34	-2.42	0.83
1770	33.22	-2.74	2.08	2090	32.75	-2.02	1.7	2390	29.93	-3.02	1.76	2590	26.55	-2.48	1.05
1780	31.99	-2.08	2.8	2100	33.41	-3.62	0.06	2400	29.9	-2.23	2.69	2600	24.02	-2.67	1.23
1790	39.21	-3.08	2.19	2110	32.77	-2.02	1.73	2410	33.22	-2.74	2.26	2610	32.05	-2.07	2.17
1800	31.87	-2.85	2.81	2120	30.62	-2.96	0.82	2420	26.83	-2.45	2.55	2620	29.4	-3.06	1.35
1810	28.49	-3.14	2.67	2130	33.16	-2	1.81	2430	23.16	-2.74	2.16	2630	34.51	-2.64	1.91
1820	34.2	-3.55	2.18	2140	29.58	-3.05	0.76	2440	23.17	-1.99	2.85	2640	26.13	-2.51	2.16
1830	33.16	-3.65	1.73	2150	34.46	-2.64	1.15	2450	24.28	-1.92	2.78	2650	33.5	-3.62	1.09
1840	34.44	-4.63	0.24	2160	36.62	-2.47	1.39	2460	23.48	-2.72	1.86	2660	30.81	-2.94	1.73
1850	41	-3.87	0.5	2170	33	-2.76	1.14	2470	30.78	-2.16	2.36	2670	36	-3.37	1.12
1860	34.29	-4.65	-0.64	2180	32.03	-2.07	1.93	2480	29.97	-2.22	2.19	2680	33.96	-3.28	0.9
1870	37.08	-4.31	-0.45	2190	31.21	-2.91	1.07	2490	25.82	-1.82	2.49	2690	30.02	-3.66	0.55
1880	38.3	-4.17	-0.21	2200	33.75	-1.96	2.06	2500	25.16	-2.58	1.54	2700	35.8	-3.39	0.82
1890	38.1	-4.19	-0.05	2210	33.02	-2.01	2.01								
1900	34.88	-3.48	0.88	2220	33.37	-2.73	1.26								
1910	39.05	-4.08	0.4	2230	36.91	-2.45	1.64								
1920	33.32	-3.63	1.04	2240	30.9	-2.93	1.21								
1930	37.47	-4.26	0.58	2250	30.62	-2.17	1.99								
1940	35.82	-4.46	0.58	2260	30.08	-3	1.16								
1950	39.94	-3.99	1.3	2270	32.94	-2.76	1.32								
1960	34.59	-4.61	0.73	2280	35.37	-2.57	1.46								
1970	32.6	-3.71	1.52	2290	31.96	-2.84	1.19								
1980	37.66	-4.24	0.64	2300	36.81	-2.46	1.55								
1990	39.01	-4.09	0.5												
2000	36.98	-3.28	1.14												

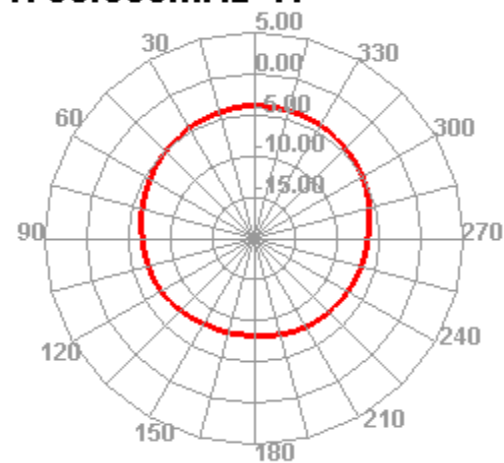


1700- Direction map

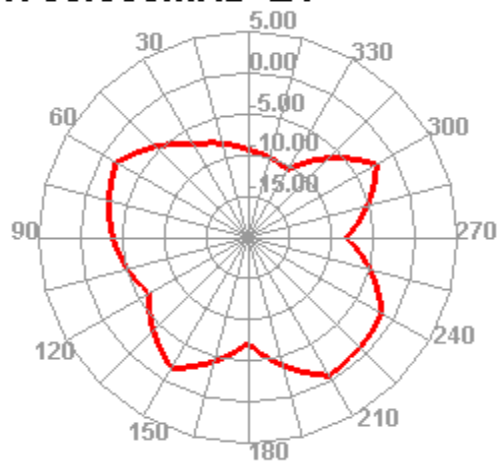
1700.000MHz



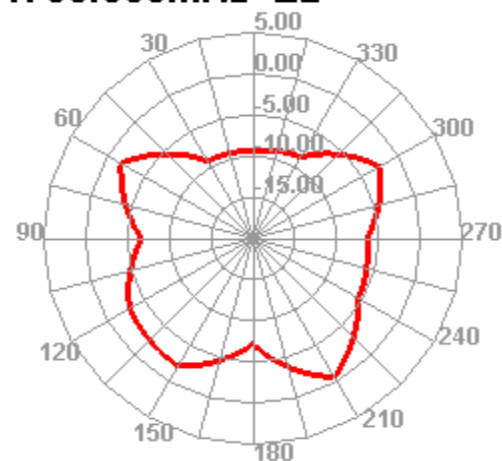
1700.000MHz H



1700.000MHz E1



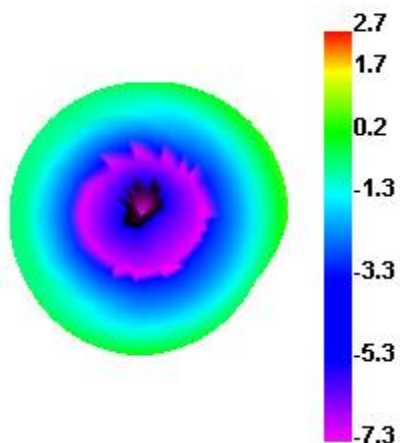
1700.000MHz E2



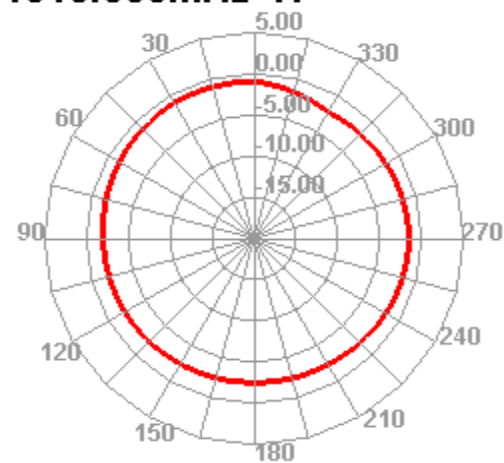


1810- Direction map

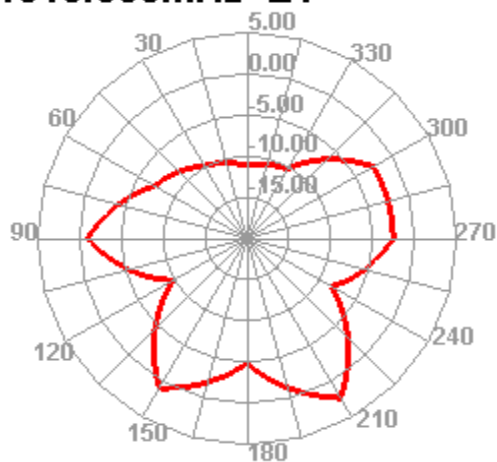
1810.000MHz



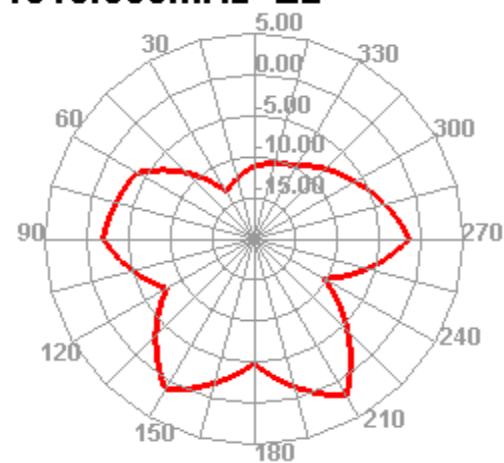
1810.000MHz H



1810.000MHz E1



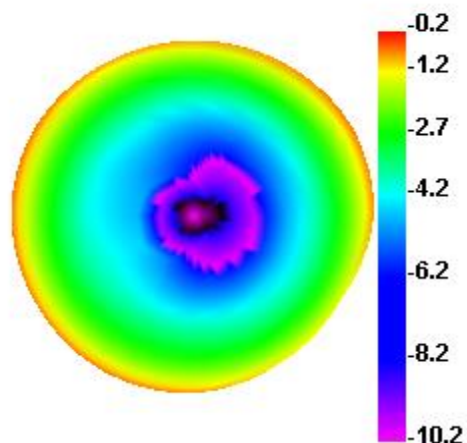
1810.000MHz E2



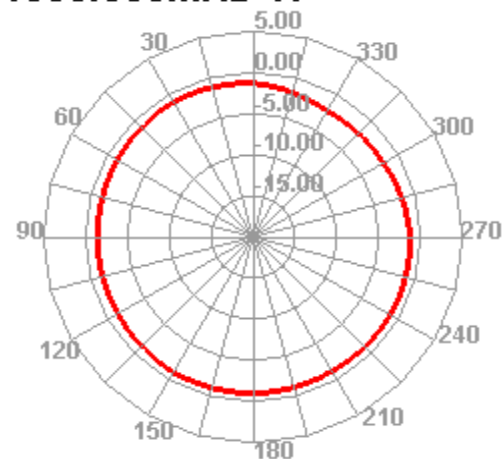


1880- Direction map

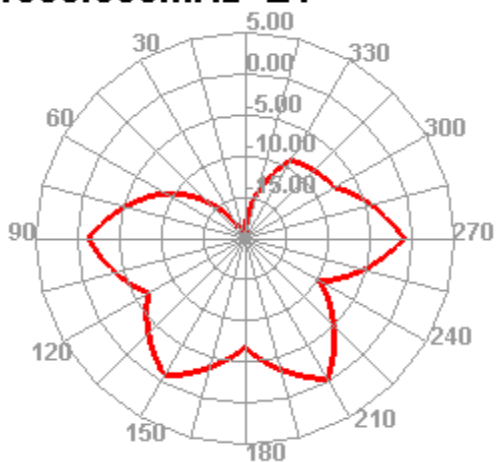
1880.000MHz



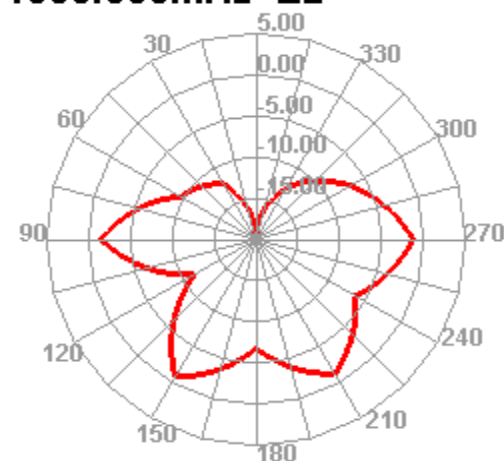
1880.000MHz H



1880.000MHz E1



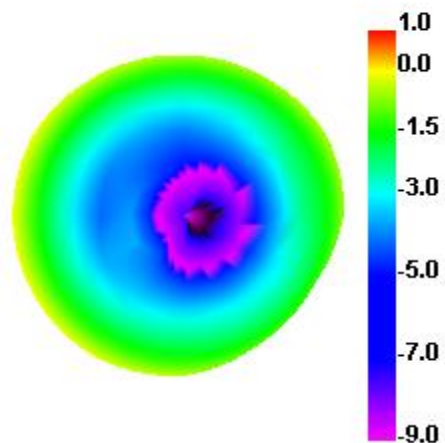
1880.000MHz E2



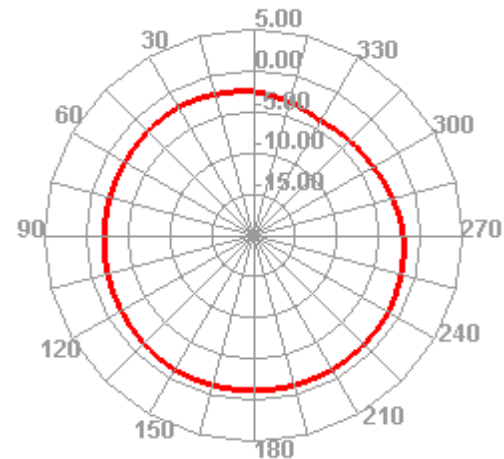


1920- Direction chart

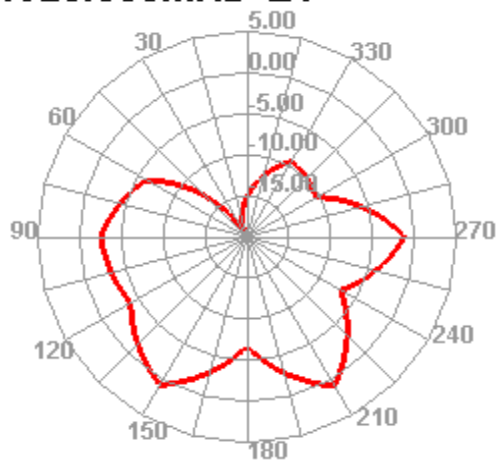
1920.000MHz



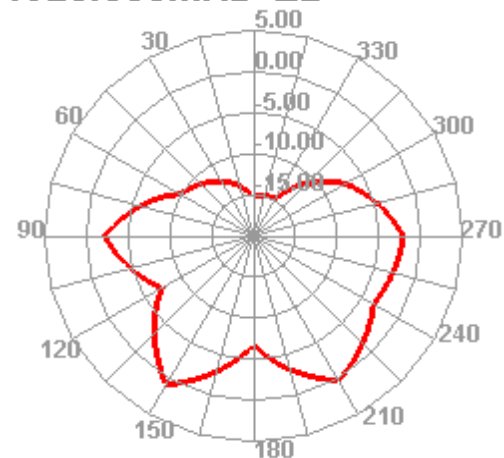
1920.000MHz H



1920.000MHz E1



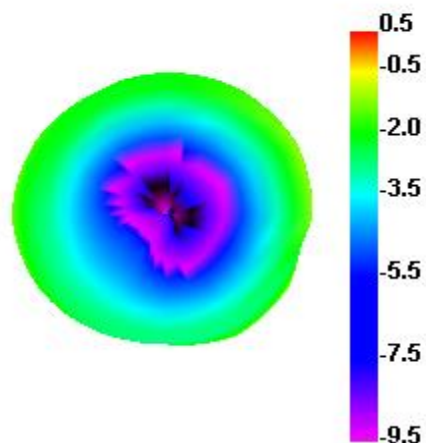
1920.000MHz E2



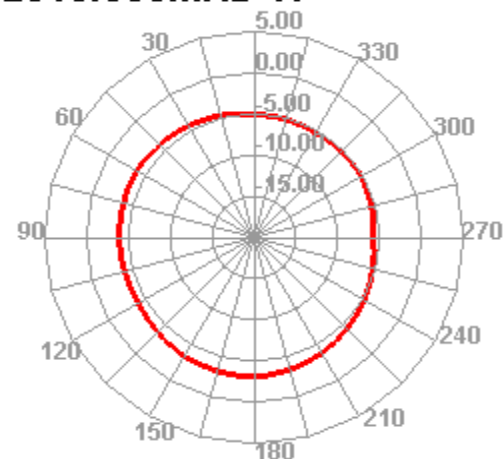


2010- Direction map

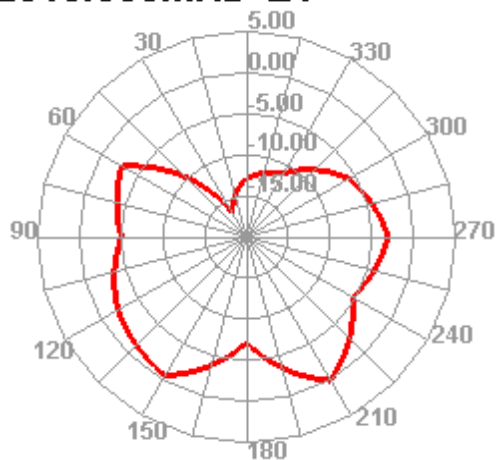
2010.000MHz



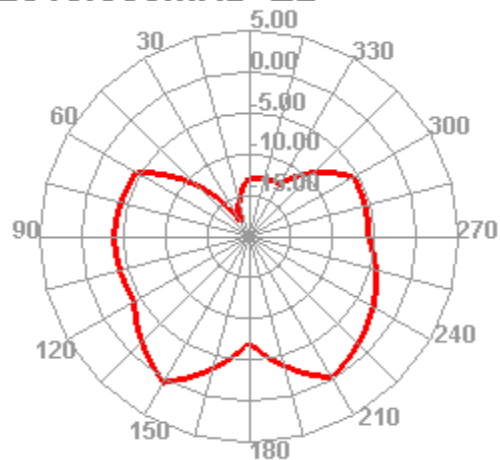
2010.000MHz H



2010.000MHz E1



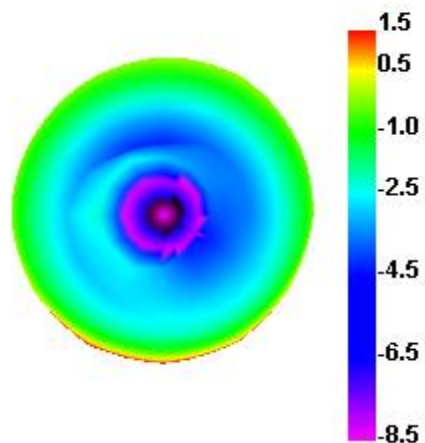
2010.000MHz E2



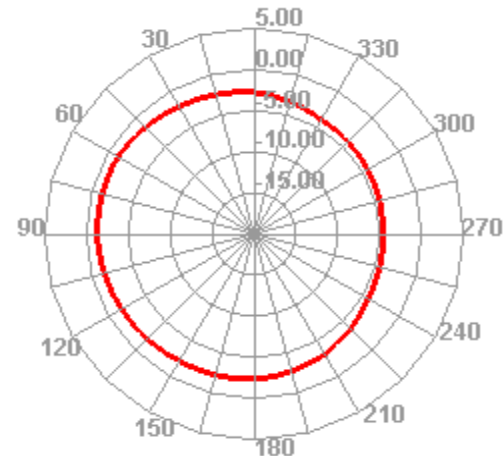


2300- Direction map

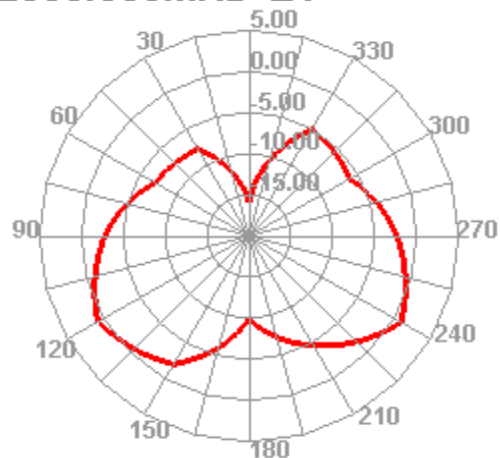
2300.000MHz



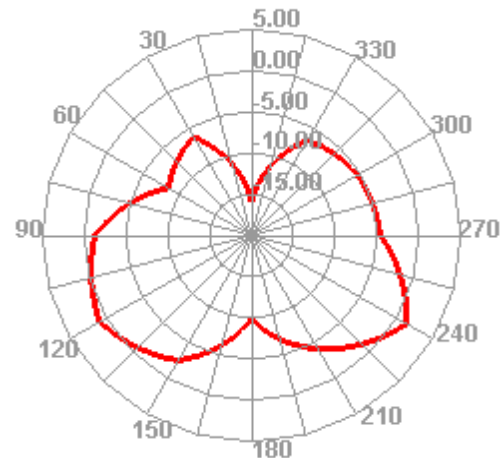
2300.000MHz H



2300.000MHz E1



2300.000MHz E2

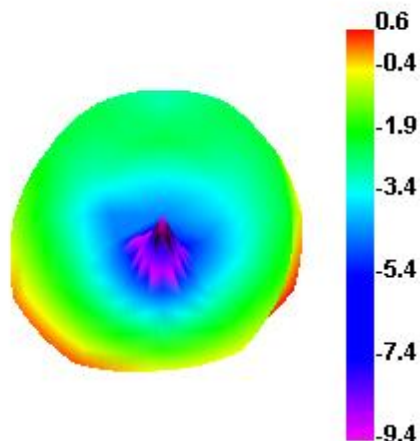




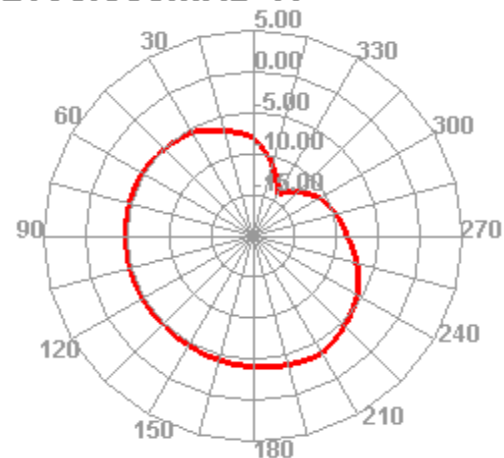
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2690.000MHz

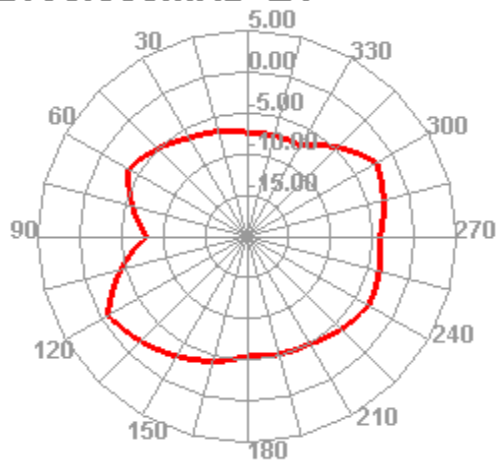
2690- Direction map



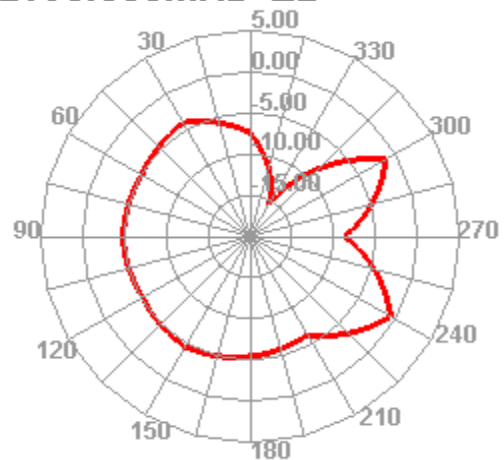
2690.000MHz H



2690.000MHz E1



2690.000MHz E2



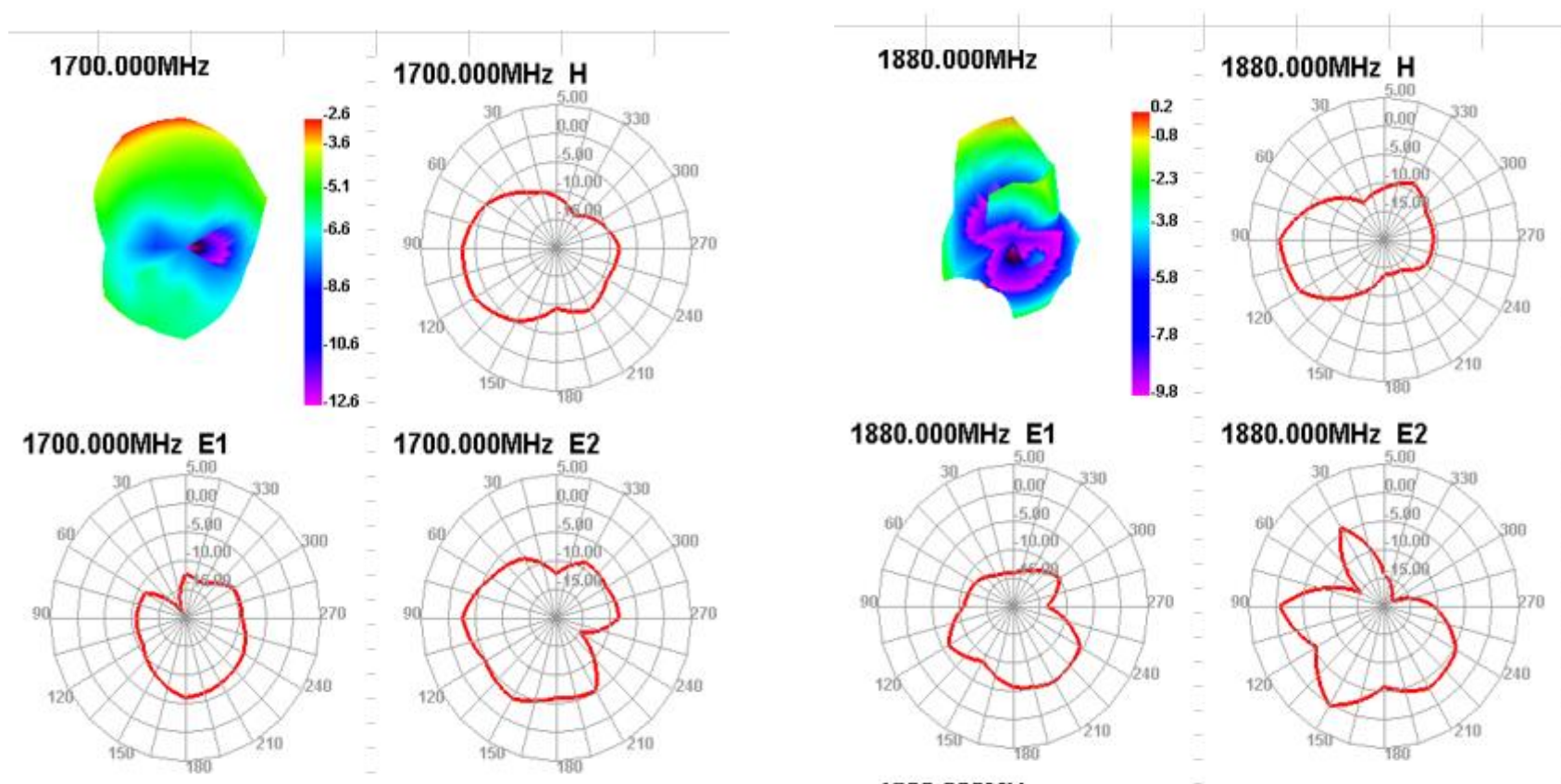


Diversity antenna efficiency direction diagram

Freq (MHz)	Effi (%)	Effi (dB)						
1700	17.8	-7.5	1950	21.48	-6.68	2420	19.62	-3.35
1710	20.52	-6.88	1960	23.48	-6.29	2430	19.13	-3.53
1720	17.29	-7.62	1970	24.46	-6.12	2440	19	-3.46
1730	23.54	-6.28	1980	24.77	-6.06	2450	19.5	-5.39
1740	21.57	-6.66	1990	21.49	-6.68	2460	19.4	-4.07
1750	21.1	-6.76	2000	26	-5.85	2470	20.51	-4.03
1760	23.04	-6.38	2010	24.61	-6.09	2480	20.13	-4.54
1770	22.22	-6.53	2020	25.11	-6	2490	20.01	-3.58
1780	28.36	-5.47	2030	21.43	-6.69	2500	22.28	-3.11
1790	22.52	-6.47	2040	22.7	-6.44	2510	31.05	-2.57
1800	27.56	-5.6	2050	26.34	-5.79	2520	31.88	-2.25
1810	24.84	-6.05	2060	25.62	-5.91	2530	30.59	-2.75
1820	29.37	-5.32	2070	30.35	-5.18	2540	31.61	-2.35
1830	27.37	-5.63	2080	25.98	-5.85	2550	32.06	-2.19
1840	25.79	-5.89	2090	31.45	-5.02	2560	34.87	-3.28
1850	25.49	-5.94	2100	23.49	-6.29	2570	35.19	-3.18
1860	23.24	-6.34	2110	28.6	-5.44	2580	35.54	-3.09
1870	23.15	-6.35	2120	24.57	-6.1	2590	33.86	-2.58
1880	21.48	-6.68	2130	28.37	-5.47	2600	34.82	-2.29
1890	23.38	-6.31	2140	23.38	-6.31	2610	36.98	-2.7
1900	21.8	-6.62	2150	28.96	-5.38	2620	36.79	-2.75
1910	23.14	-6.36	2160	26.03	-5.85	2630	25.59	-6.07
1920	22.88	-6.41	2170	27.8	-5.56	2640	22.73	-5.95
1930	22.9	-6.4	2180	26.43	-5.78	2650	23.75	-5.62
1940	20.48	-6.89	2190	22.89	-6.4	2660	25.46	-5.11
			2200	27.06	-5.68	2670	26.08	-5.94
			2210	23.87	-6.22	2680	21.31	-4.47
			2220	23.8	-6.23	2690	20.75	-4.69
			2230	19.72	-7.05	2700	22.91	-4.89
			2240	19.17	-7.17			
			2250	20.65	-6.85			
			2260	17.64	-7.53			
			2270	18.44	-7.34			
			2280	13.71	-8.63			
			2290	16.93	-7.71			
			2300	13.93	-8.56			
			2310	13.73	-8.62			
			2320	14.08	-8.51			
			2330	14.36	-8.43			
			2340	14.91	-8.27			
			2350	11.69	-9.32			
			2360	13.33	-8.75			
			2370	12.2	-9.13			
			2380	13.32	-8.75			
			2390	10.89	-9.63			
			2400	11.09	-9.55			
			2410	12.39	-9.07			

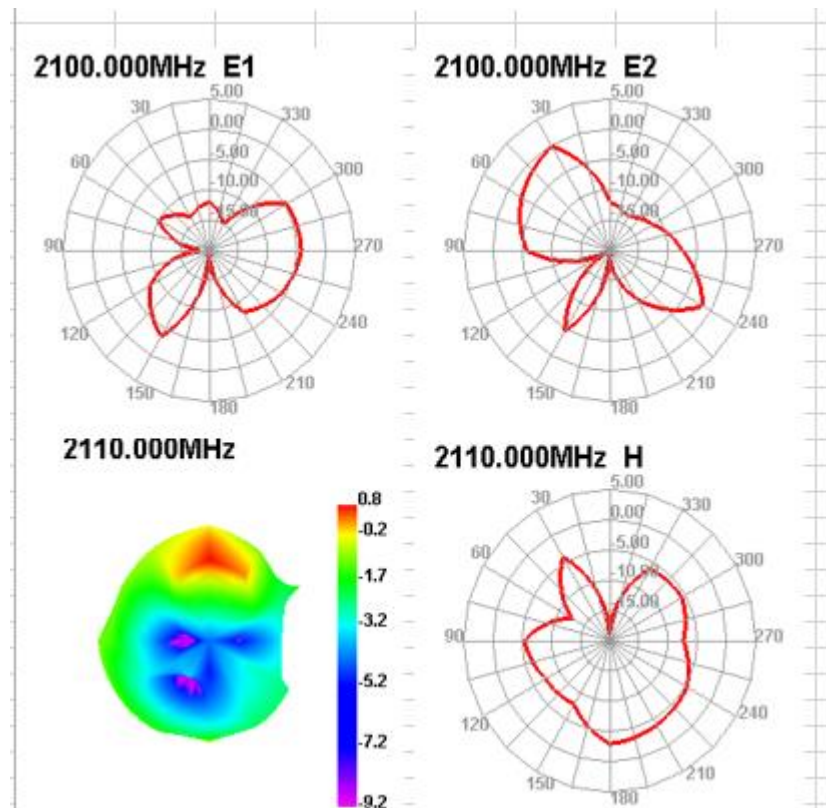
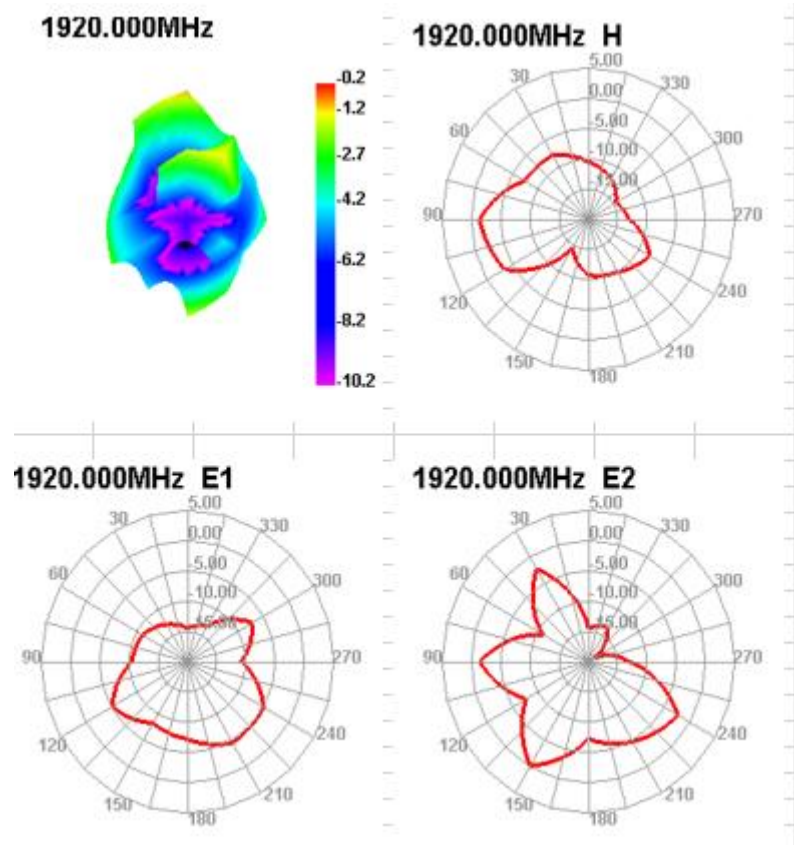


Direction diagram from 1700 to 1800



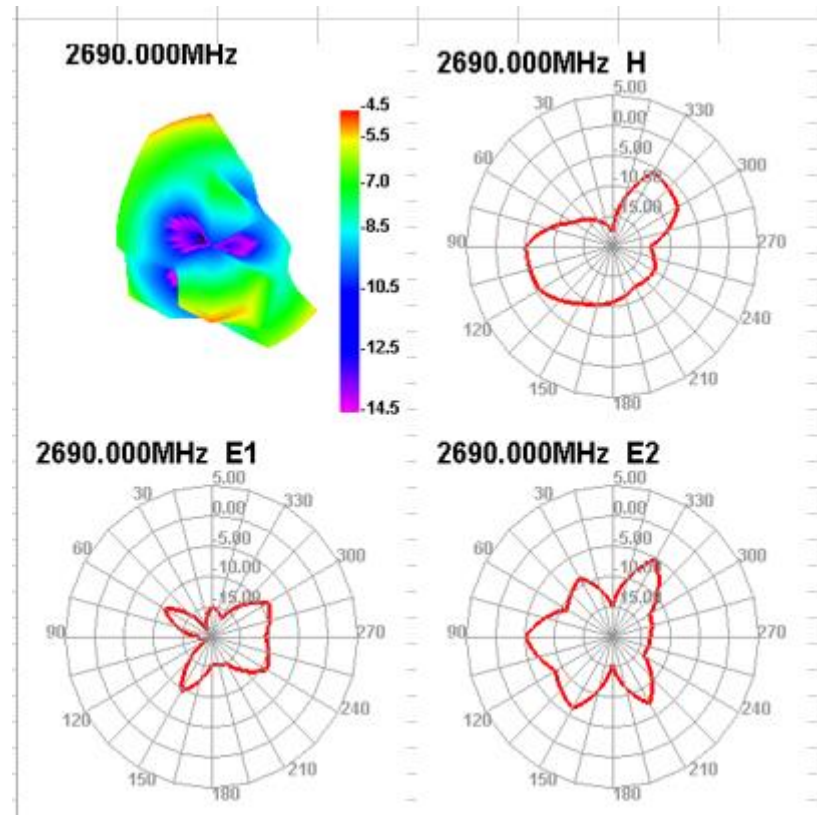
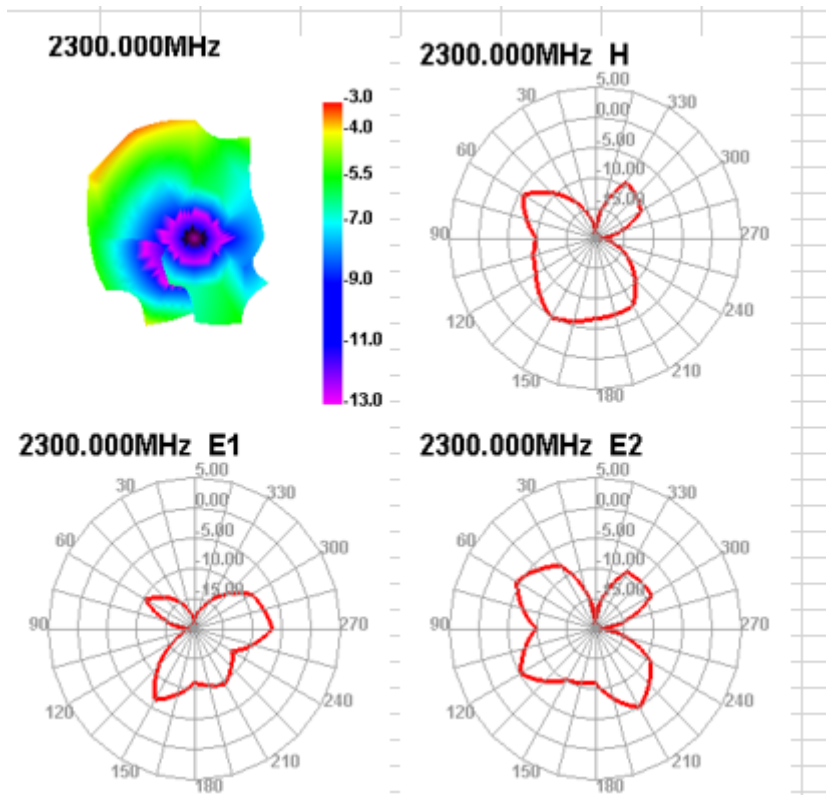


Direction chart 1920-2110





2300-2690- Direction diagram

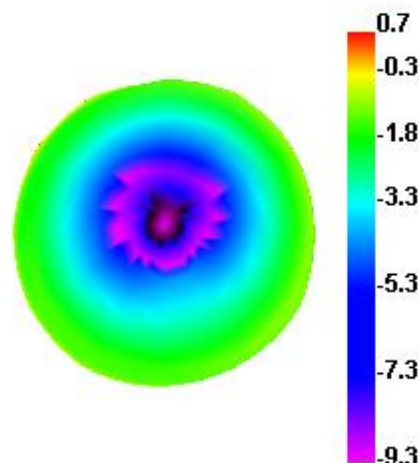




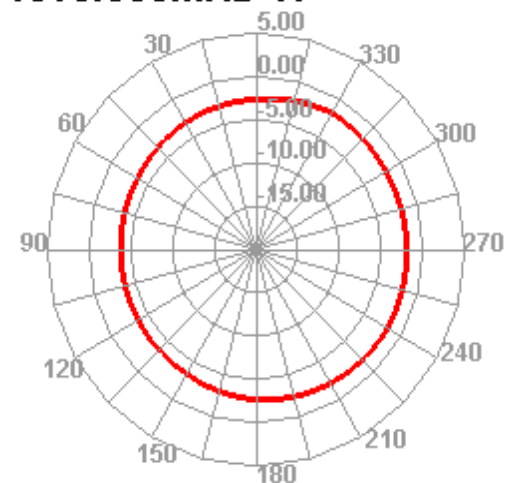
GPS efficiency -1560- direction chart

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
1500	37.88	-3.2	0.03
1505	33.63	-2.71	0.5
1510	38.57	-2.32	0.79
1515	32.9	-2.77	0.31
1520	39.8	-3.03	0.02
1525	35.08	-2.59	0.43
1530	36.78	-2.46	0.47
1535	31.38	-2.89	-0.02
1540	33.08	-2.75	0.1
1545	31.49	-2.11	0.65
1550	30.62	-2.17	0.53
1555	36.55	-2.48	0.21
1560	32.51	-2.04	0.68
1565	37.61	-1.7	0.97
1570	33.3	-1.99	0.67
1575	38.5	-2.33	0.35
1580	32.41	-2.05	0.67
1585	38.07	-1.67	1.2
1590	39.1	-2.28	0.69
1595	39.61	-2.25	0.82
1600	34	-1.31	1.86

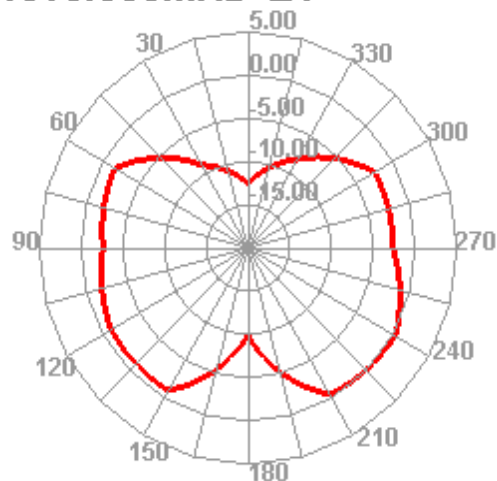
1560.000MHz



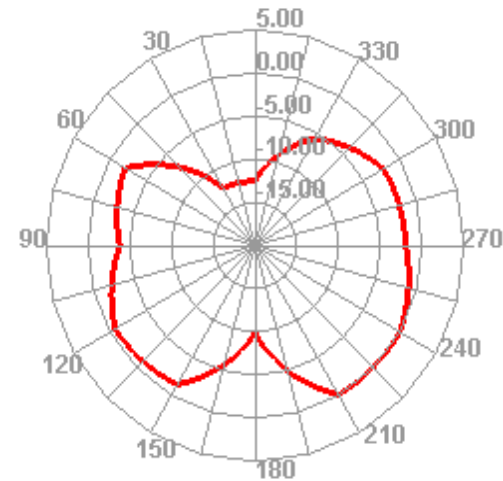
1560.000MHz H



1560.000MHz E1



1560.000MHz E2

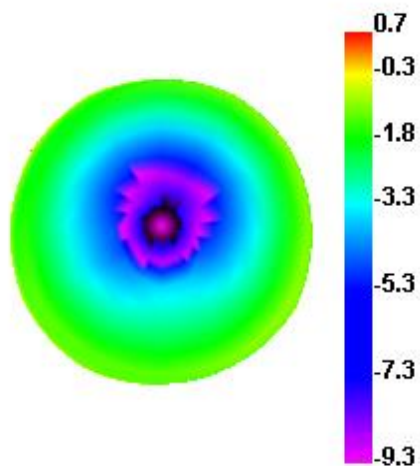




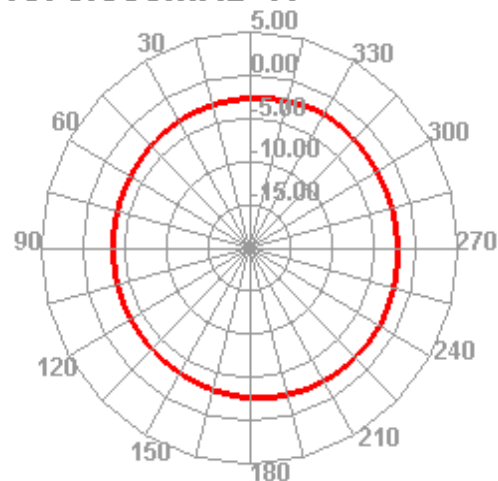
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GPS-1570- Direction map

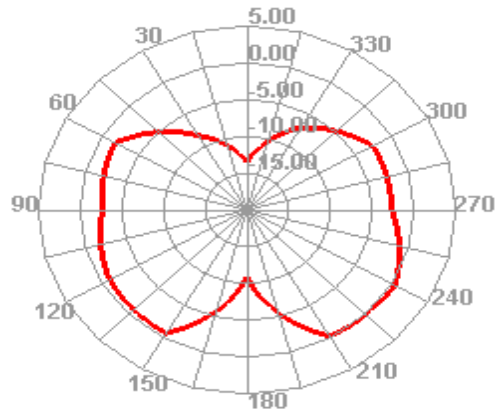
1570.000MHz



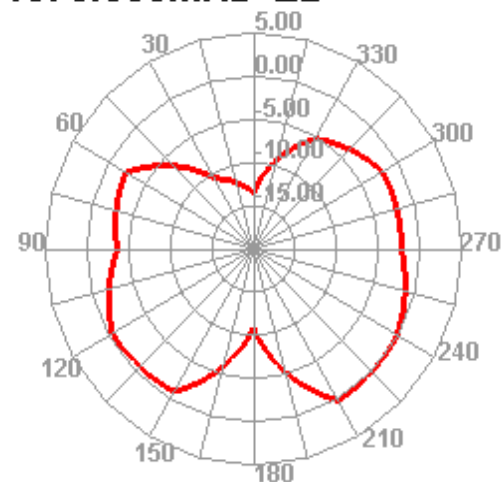
1570.000MHz H



1570.000MHz E1



1570.000MHz E2

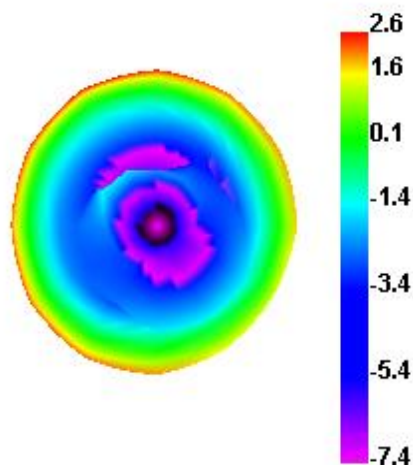




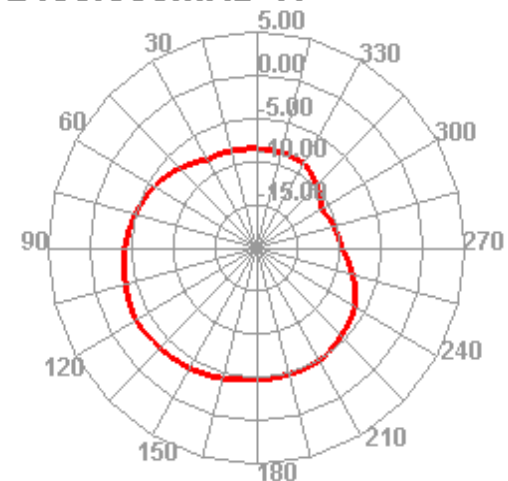
WIFI2.4G efficiency direction diagram

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	39.88	-2.23	2.56
2410	38.21	-2.74	2.14
2420	37.1	-2.43	2.43
2430	44.3	-2.73	2.05
2440	43.99	-1.94	2.75
2450	44.98	-1.87	2.67
2460	44.02	-2.67	1.75
2470	41.5	-2.11	2.22
2480	40.1	-2.21	2.05
2490	46.39	-1.78	2.4
2500	44.94	-2.6	1.44

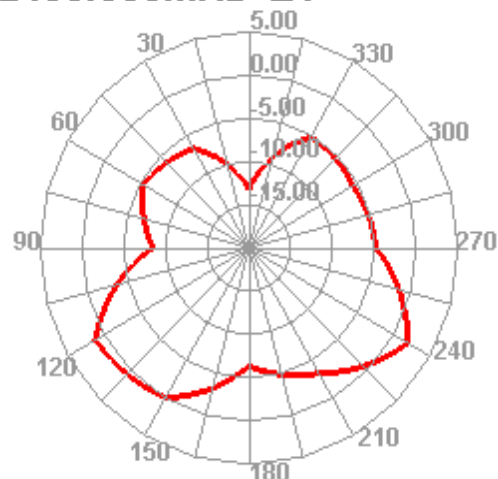
2400.000MHz



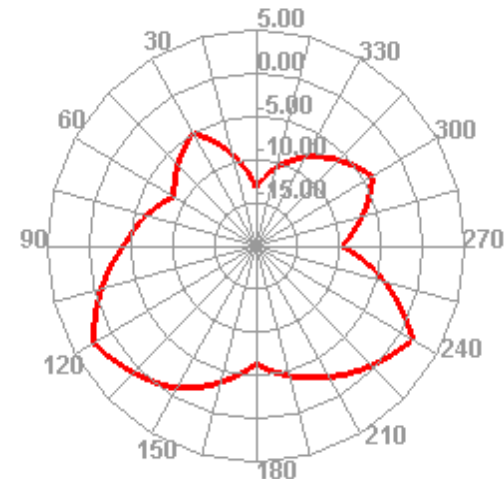
2400.000MHz H



2400.000MHz E1



2400.000MHz E2

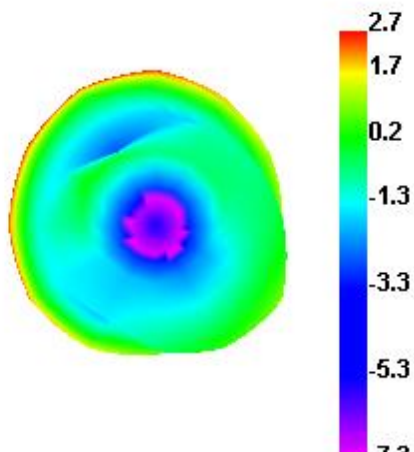




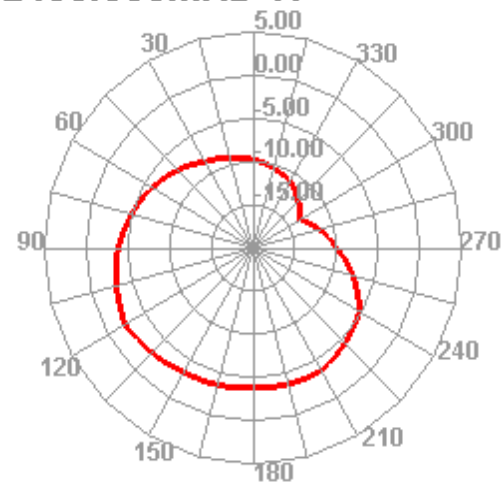
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WIFI2.4G-2450- Direction diagram

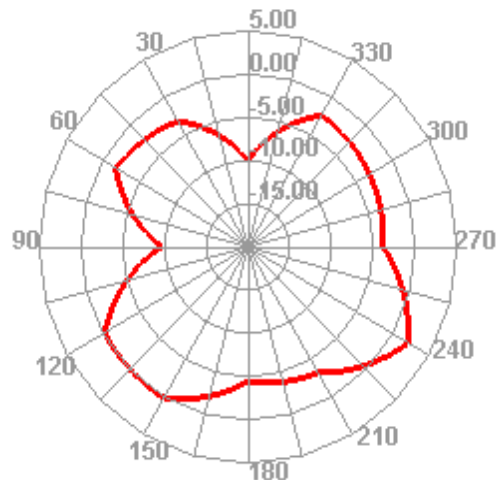
2450.000MHz



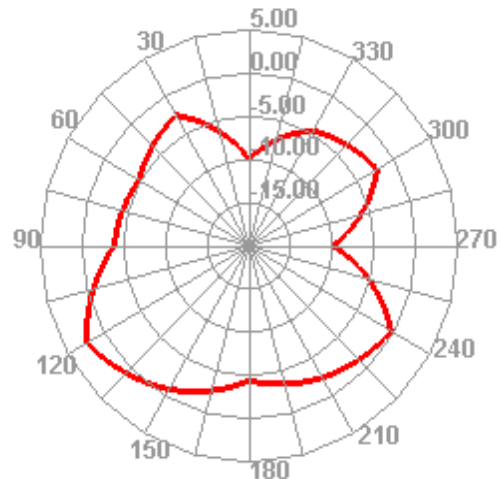
2450.000MHz H



2450.000MHz E1



2450.000MHz E2

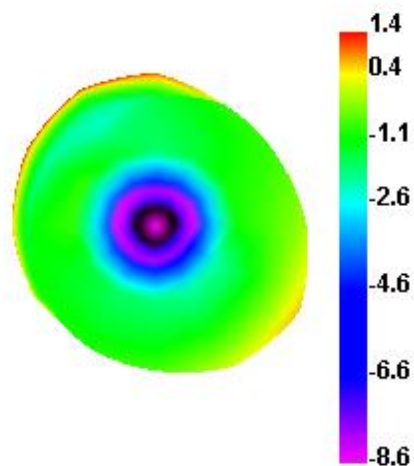




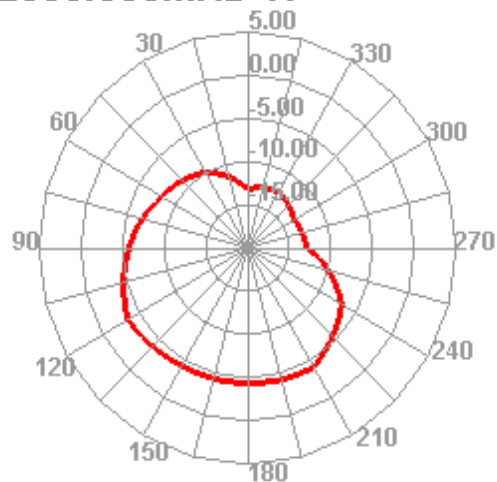
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WIFI2.4G-2500- Direction diagram

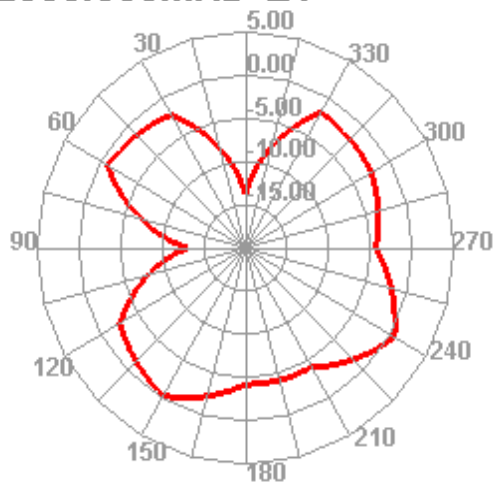
2500.000MHz



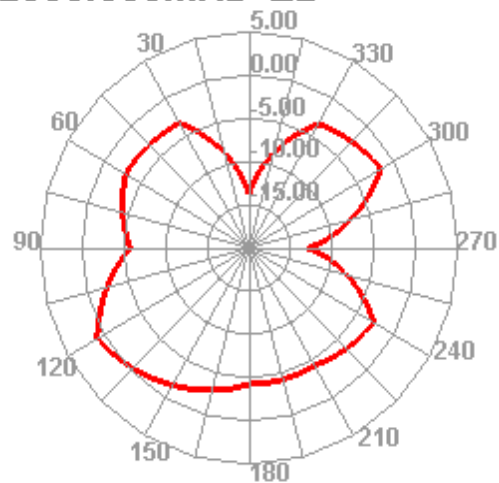
2500.000MHz H



2500.000MHz E1



2500.000MHz E2

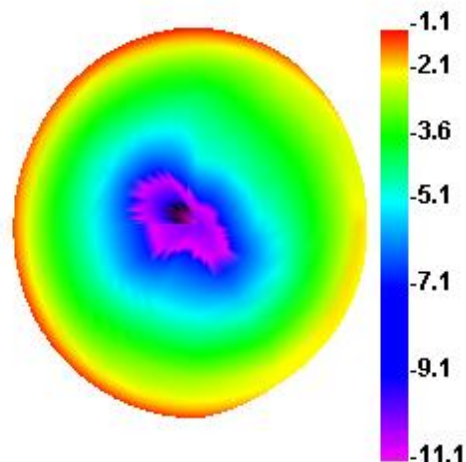




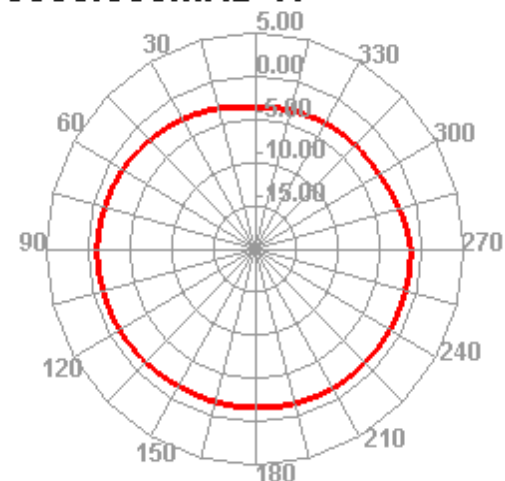
WIFI5G Efficiency 5000 direction diagram

Freq	Effi	Effi	Gain
(MHz)	(%)	(dB)	(dBi)
5000	36.83	-5.11	-1.09
5100	35.87	-3.29	0.6
5200	38.49	-4.15	-0.6
5300	42.92	-2.76	1.17
5400	38.65	-3.13	1.22
5500	42.5	-2.8	1.26
5600	41.14	-2.91	1.36
5700	40.14	-3	1.37
5800	37.29	-3.25	1.43
5900	38.95	-3.1	0.56

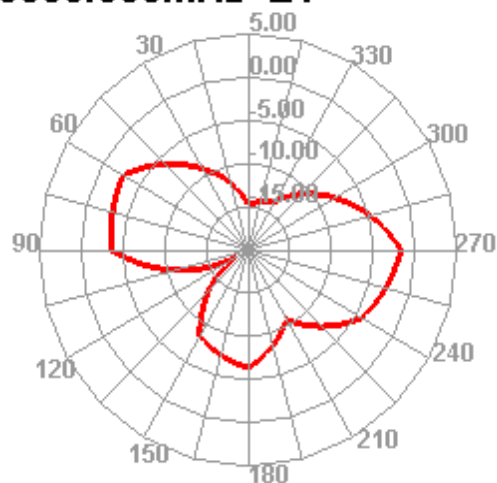
5000.000MHz



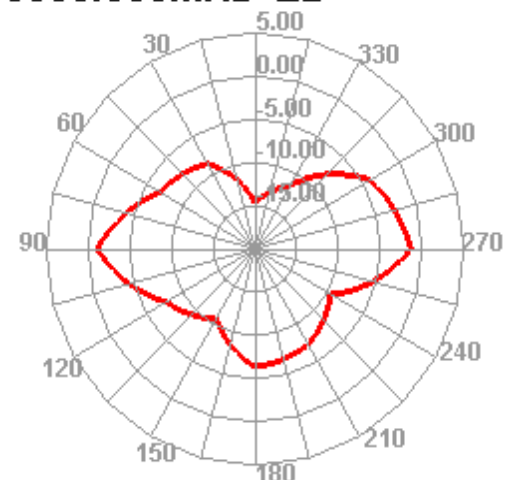
5000.000MHz H



5000.000MHz E1



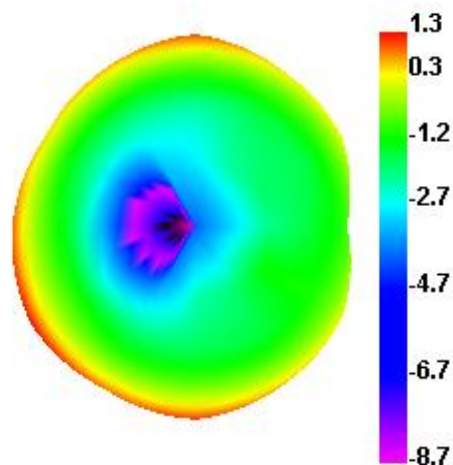
5000.000MHz E2



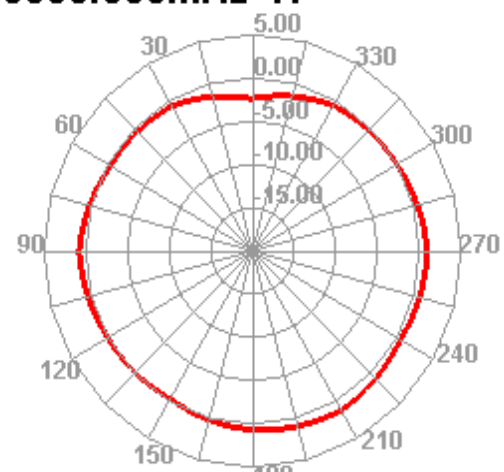


WIFI5G-5500- Direction diagram

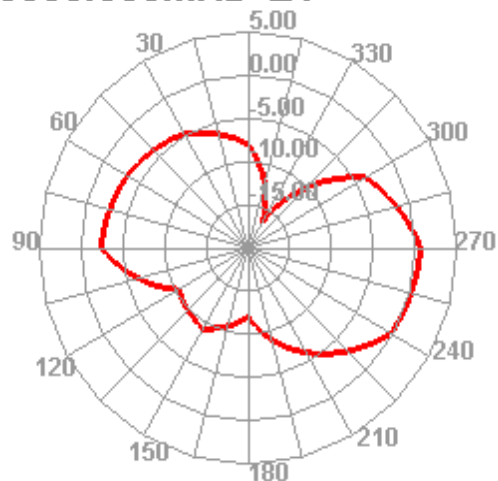
5500.000MHz



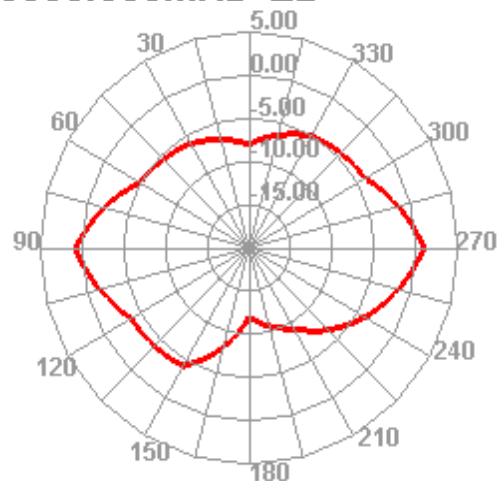
5500.000MHz H



5500.000MHz E1



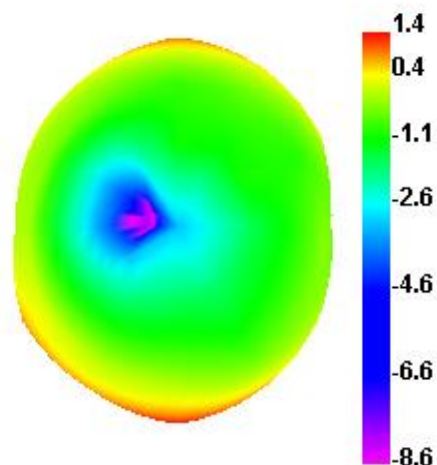
5500.000MHz E2





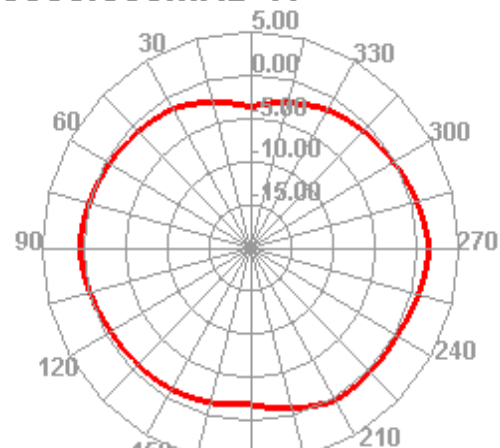
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5800.000MHz

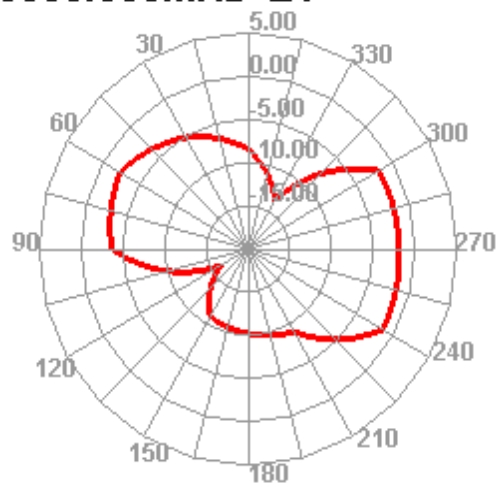


WIFI5G-5800 direction diagram

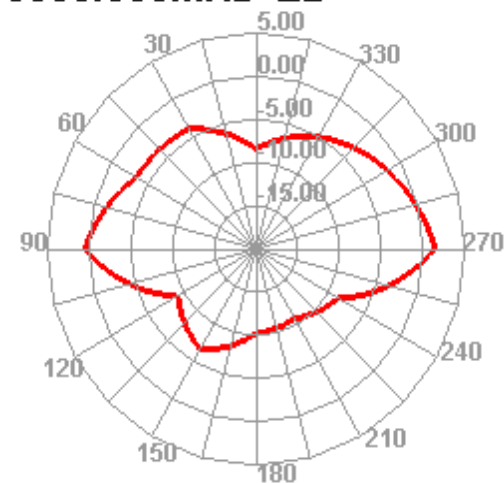
5800.000MHz H



5800.000MHz E1



5800.000MHz E2





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thank you

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Shenzhen OnePlusOne Wireless Communication Technology Co. Ltd.