

CCU-MT RF Internal Antenna Test Report

Project name : CCU-MT

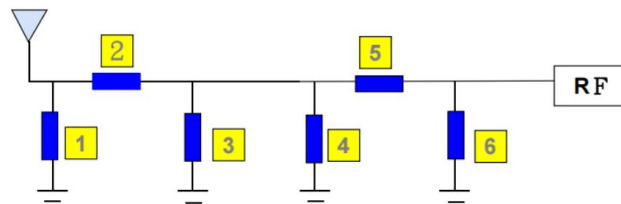
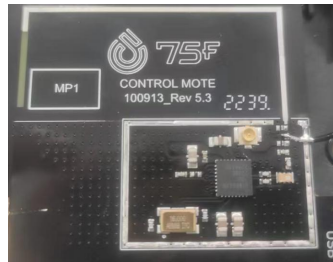
Product name: internal antenna on PCB

Date: 2023-3-13

Estone Technology LTD

**Address: 2F,Building No.1, Jia'an Industrial Park,
No.2 Long Chang Road, Bao'an, Shenzhen 518101, China.**

1. Antenna Matching :



2. Antenna Passive Efficiency Test Parameters

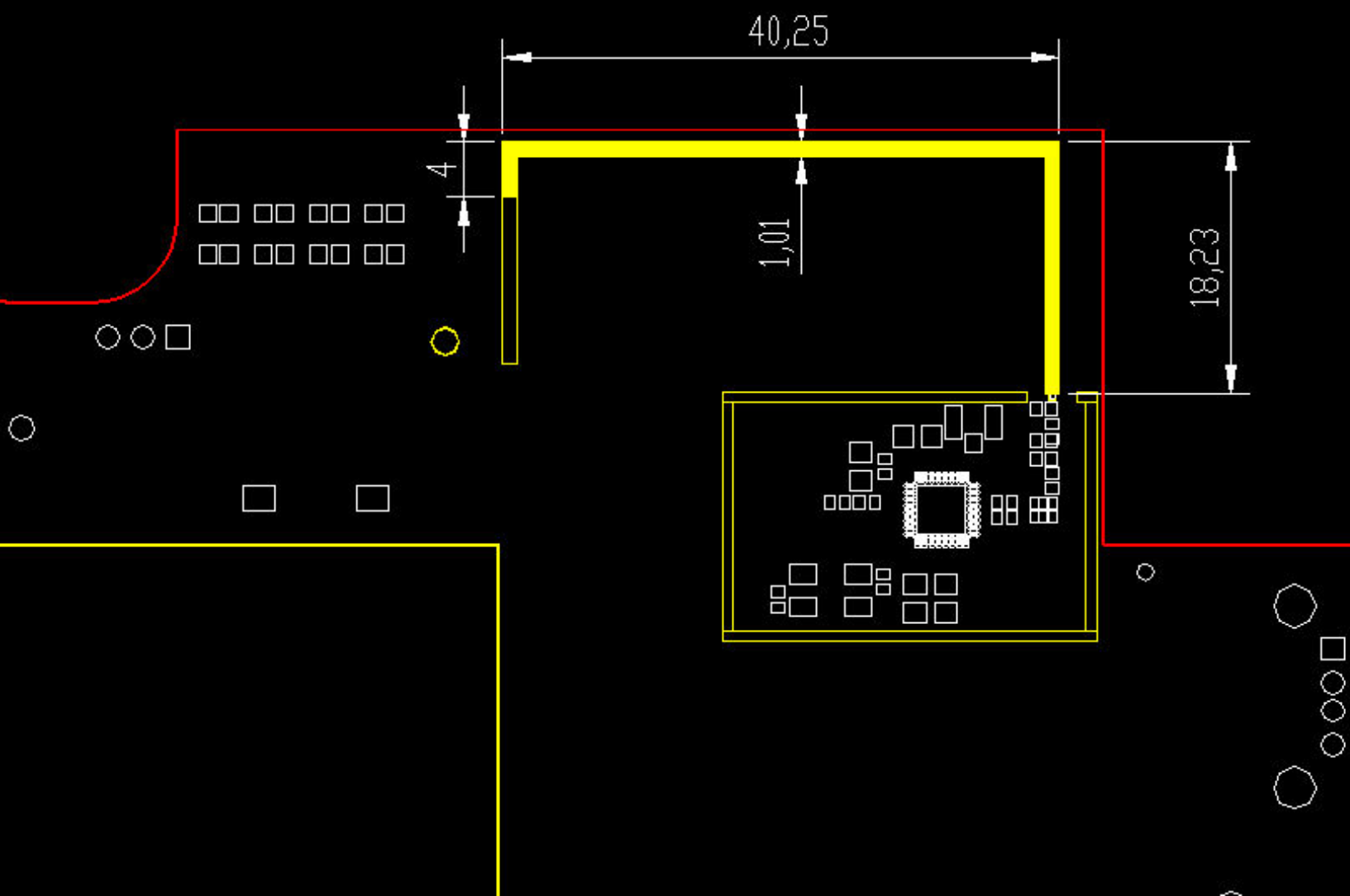
Application Information	
04Version	5.256.357
TotalTime	4m 46s 702ms
AdditionalInfor	NULL

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	VSWR (%)	DMIS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
800	37.51	-4.26	-1.11	-3.26	17.804	19.703	-1.11	-14.79	3.15	0	37.56	36.67
805	40.13	-3.97	-0.66	-2.81	18.974	21.159	-0.66	-15.15	3.3	0	38.14	37.18
810	42.68	-3.7	-0.36	-2.51	20.525	22.158	-0.36	-15.81	3.34	0	37.96	36.99
815	40.29	-3.95	-0.7	-2.85	19.878	20.414	-0.7	-17.1	3.25	0	37.98	37.02
820	46.97	-3.28	-0.13	-2.28	23.63	23.336	-0.13	-16.95	3.15	0	38.4	37.47
825	48.98	-3.1	0.02	-2.13	25.477	23.506	0.02	-16.88	3.12	0	38.06	37.23
830	45.76	-3.39	-0.34	-2.49	24.449	21.315	-0.34	-16.79	3.06	0	37.73	37.05
835	47.91	-3.2	-0.21	-2.36	26.094	21.821	-0.21	-15.83	2.98	0	37.55	36.96
840	44.97	-3.47	-0.46	-2.61	24.852	20.12	-0.46	-15.22	3.01	0	37.27	36.78
845	43.1	-3.66	-0.32	-2.47	24.058	19.039	-0.32	-14.48	3.33	0	37.22	36.87
850	44.95	-3.47	0.17	-1.98	25.421	19.534	0.17	-13.52	3.64	0	37.01	36.8
855	43.2	-3.64	0.19	-1.96	24.869	18.334	0.19	-13.17	3.84	0	36.79	36.73
860	44.02	-3.56	0.33	-1.82	25.737	18.286	0.33	-13.6	3.89	0	37.15	37.11
865	48.99	-3.1	0.77	-1.38	29.231	19.762	0.77	-14.12	3.87	180	37.21	37.26
870	46.81	-3.3	0.57	-1.58	28.556	18.254	0.57	-15.48	3.87	180	36.7	36.86
875	48.01	-3.19	0.54	-1.61	29.407	18.606	0.54	-16	3.73	180	36.67	36.86
880	52.99	-2.76	0.75	-1.4	32.472	20.514	0.75	-15.95	3.51	180	36.87	37.06
885	49.75	-3.03	0.19	-1.96	30.395	19.357	0.19	-16.24	3.23	180	36.75	36.94
890	52.2	-2.82	0.19	-1.96	31.541	20.659	0.19	-15.82	3.01	180	36.65	36.79
895	52.73	-2.78	0.04	-2.11	31.428	21.306	0.04	-15.36	2.82	210	36.84	36.97
900	52.06	-2.83	-0.22	-2.37	30.628	21.435	-0.22	-14.98	2.61	210	37	37.17
905	58.02	-2.36	0.01	-2.14	33.998	24.023	0.01	-15.59	2.37	210	37	37.16
910	58.26	-2.35	-0.07	-2.22	34.172	24.084	-0.07	-16.54	2.28	60	37.11	37.2
915	61.68	-2.1	0.11	-2.04	36.055	25.63	0.11	-16.8	2.21	60	37.29	37.39
920	65.59	-1.83	0.31	-1.84	38.34	27.252	0.31	-16.59	2.14	60	37.45	37.48
925	62.59	-2.03	0.02	-2.13	36.347	26.247	0.02	-16.49	2.06	90	37.62	37.65
930	63.96	-1.94	0.12	-2.03	36.509	27.451	0.12	-15.53	2.06	90	37.74	37.88
935	63.98	-1.94	0.2	-1.95	35.679	28.298	0.2	-14.36	2.14	90	37.87	38.11
940	60.49	-2.18	0.2	-1.95	32.921	27.568	0.2	-13.53	2.39	90	38.11	38.37
945	62.43	-2.05	0.5	-1.65	33.303	29.131	0.5	-13.06	2.54	90	38.24	38.63
950	62.78	-2.02	0.57	-1.58	33.141	29.643	0.57	-12.52	2.59	90	38.11	38.55
955	59.41	-2.26	0.36	-1.79	31.068	28.342	0.36	-12.16	2.62	90	38	38.41
960	61.31	-2.12	0.42	-1.73	32.004	29.305	0.42	-11.47	2.55	60	37.95	38.4
965	61.85	-2.09	0.56	-1.59	32.488	29.364	0.56	-11.26	2.65	60	37.87	38.38
970	59.49	-2.26	0.63	-1.52	31.084	28.408	0.63	-11.4	2.88	60	37.67	38.2
975	58.4	-2.34	0.7	-1.45	30.161	28.239	0.7	-11.21	3.04	60	37.8	38.36
980	55.93	-2.52	0.65	-1.5	28.518	27.413	0.65	-11.19	3.17	60	38.11	38.7
985	54.23	-2.66	0.62	-1.53	27.317	26.915	0.62	-11.12	3.27	60	38.08	38.68
990	51.29	-2.9	0.61	-1.54	25.56	25.735	0.61	-11.29	3.51	60	38.32	38.95
995	51.59	-2.87	0.9	-1.25	25.549	26.046	0.9	-11.09	3.77	60	38.69	39.34
1000	59	-2.29	1.71	-0.44	29.355	29.645	1.71	-10.26	4	60	39.14	39.75

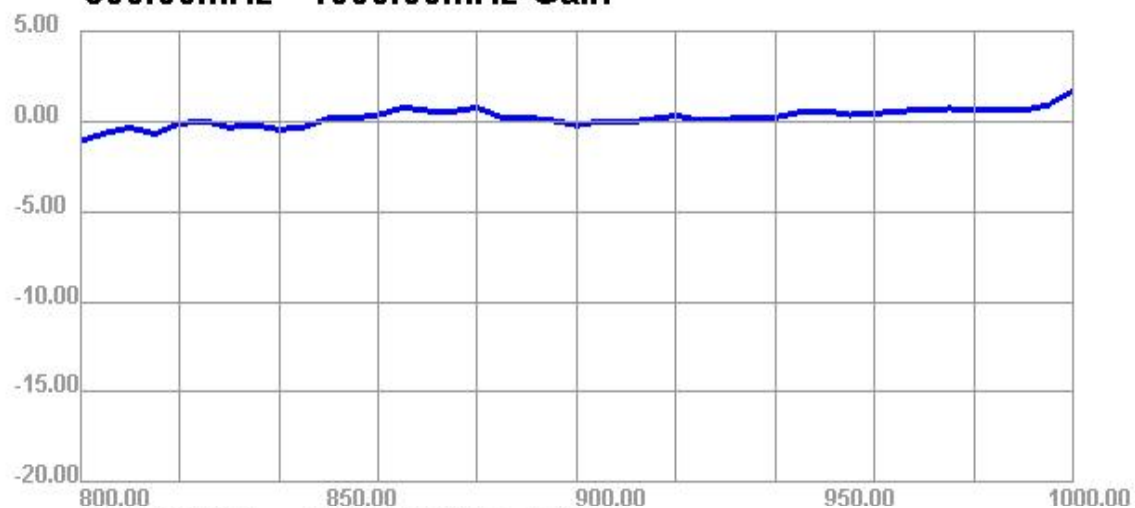
Unit: mm

铜皮厚度1盎司

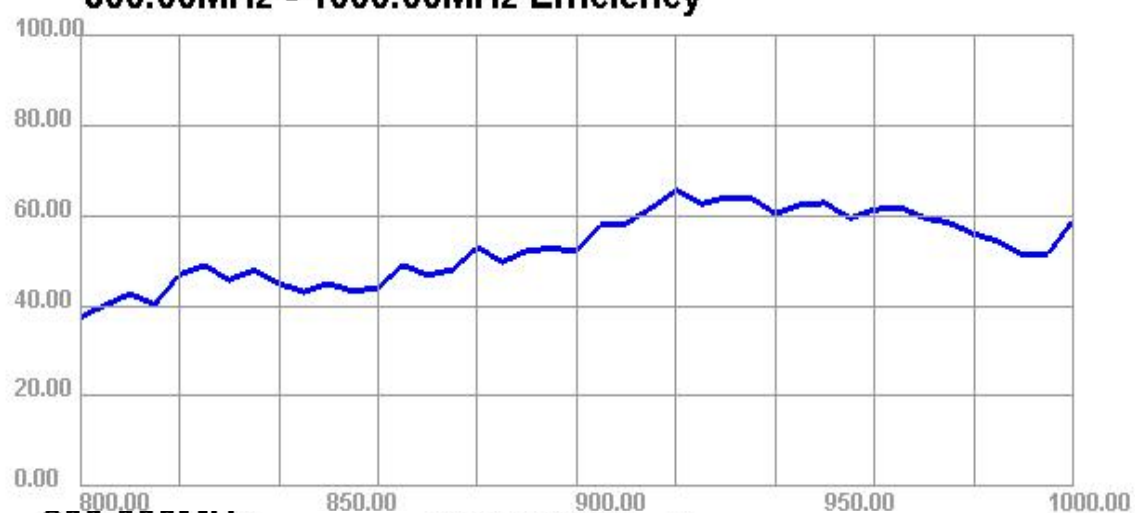
The thickness of the copper | ounces



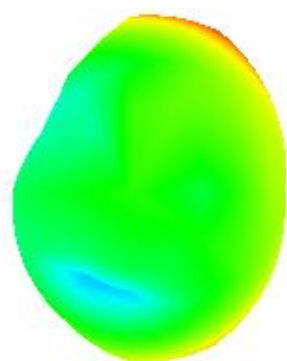
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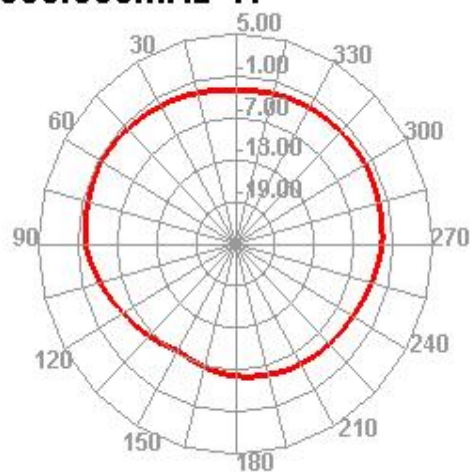
800.00MHz - 1000.00MHz Efficiency



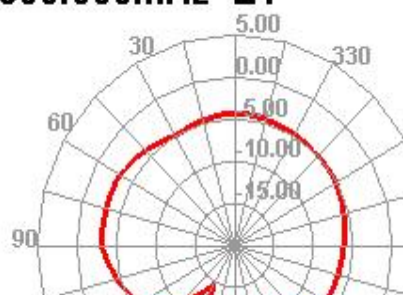
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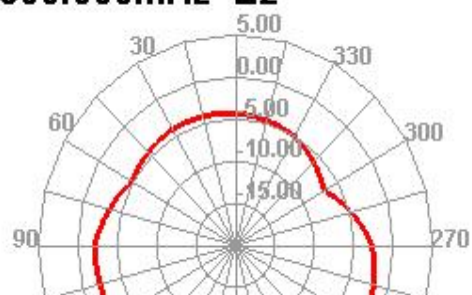
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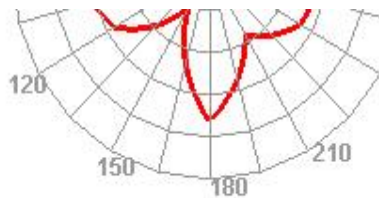


800.000MHz E1

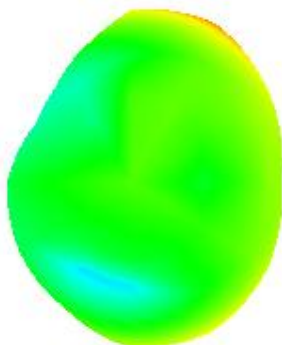


800.000MHz E2

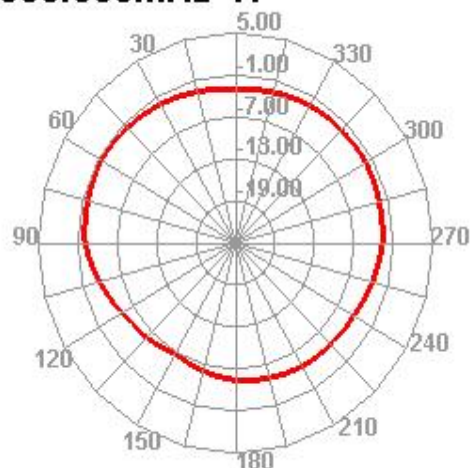




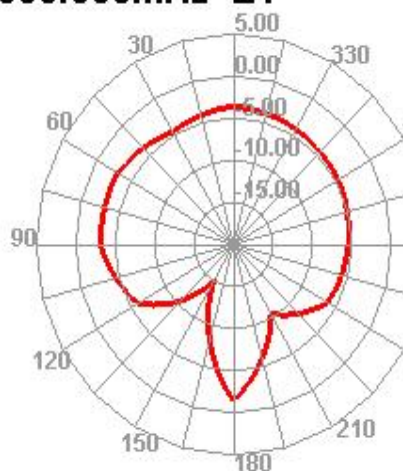
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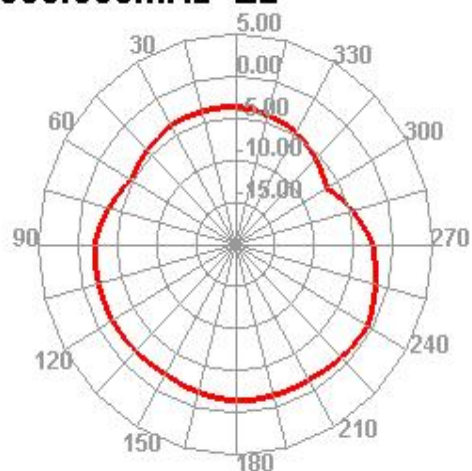
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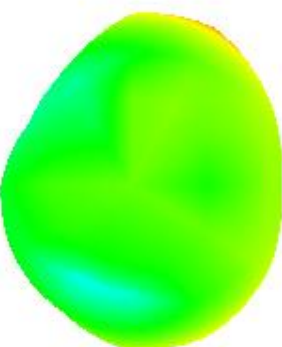
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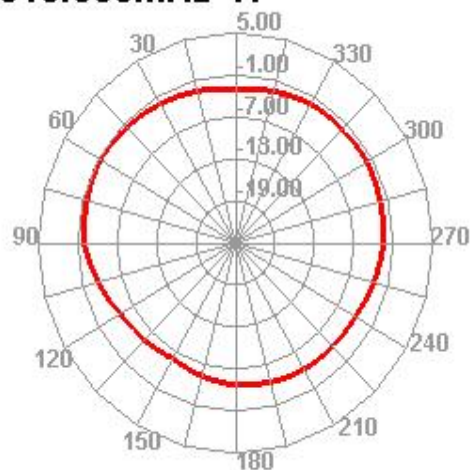
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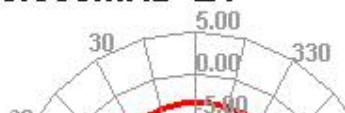
810.000MHz



810.000MHz H

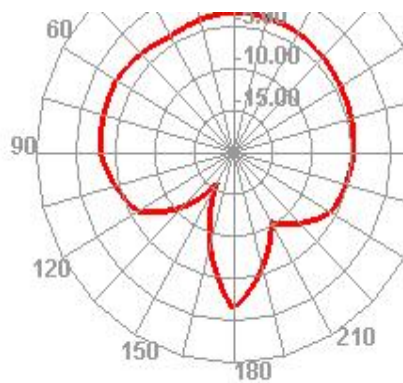


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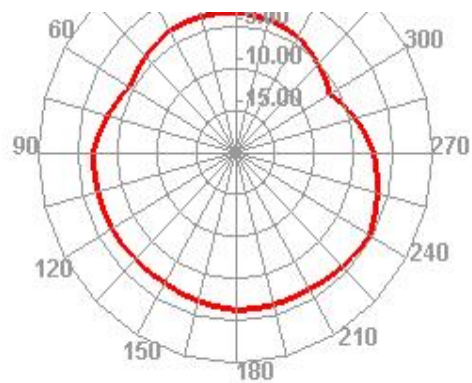
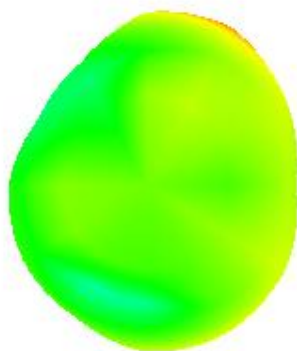


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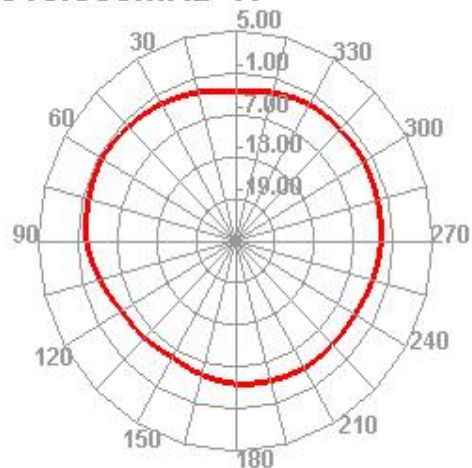




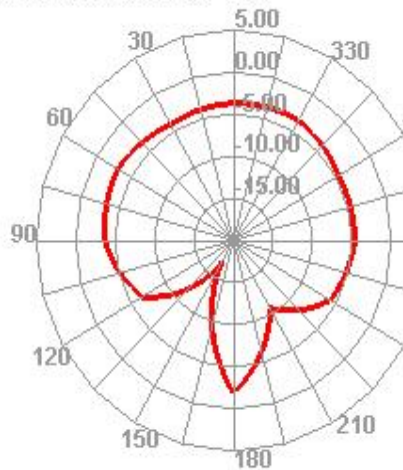
815.000MHz



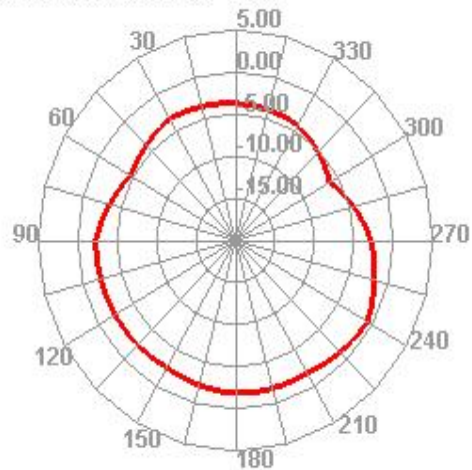
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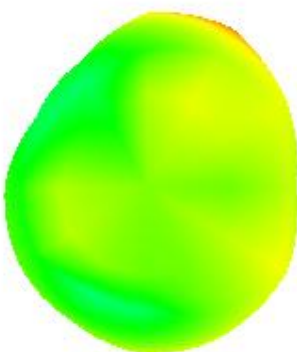
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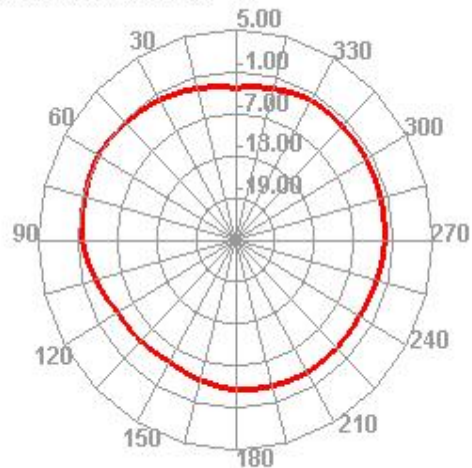
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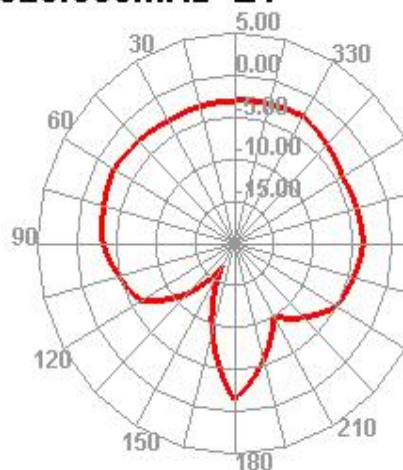
820.000MHz



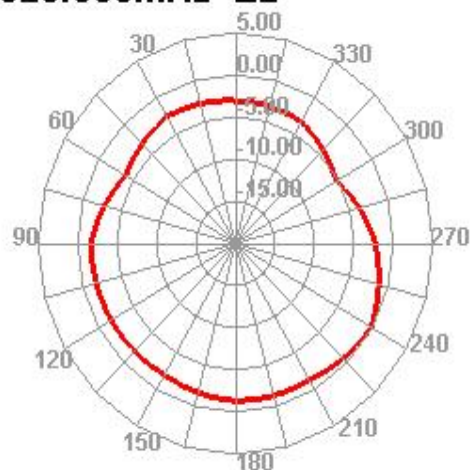
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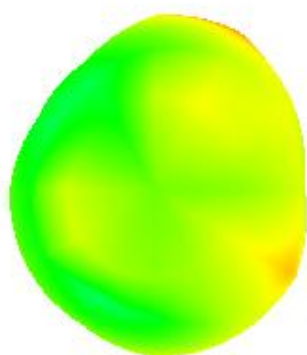
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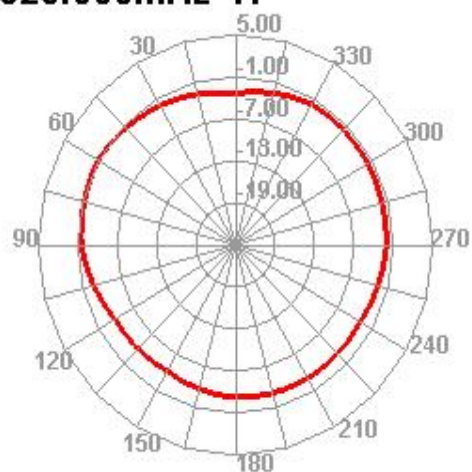
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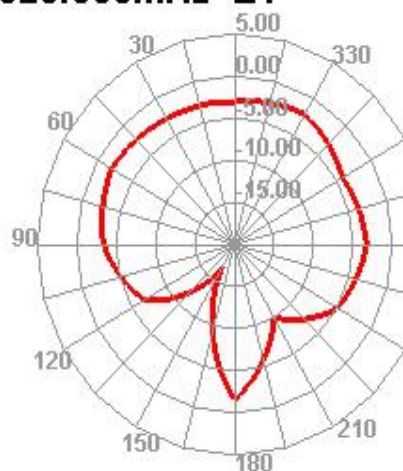
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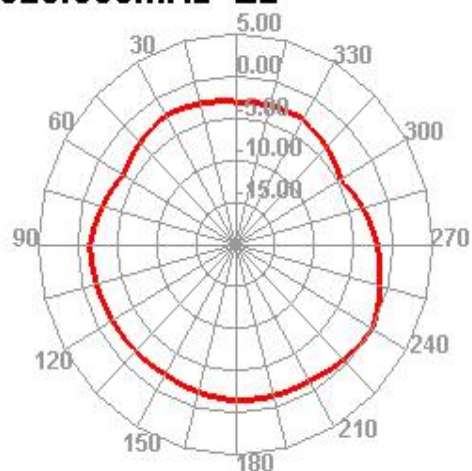
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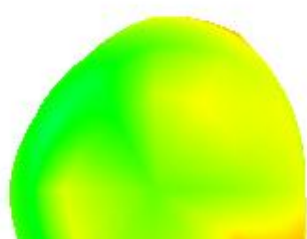
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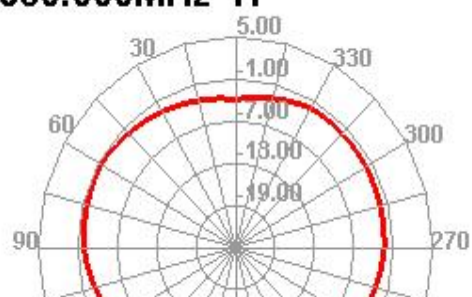
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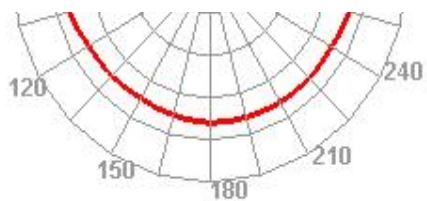
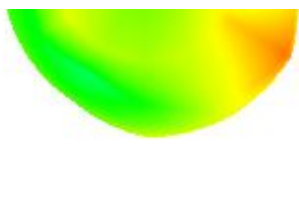


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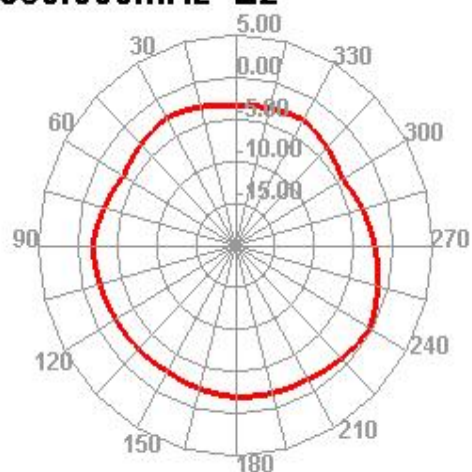
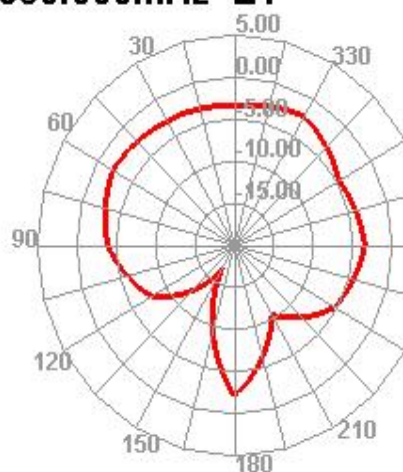
830.000MHz H





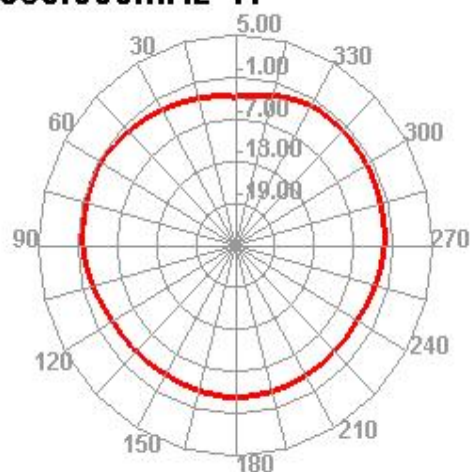
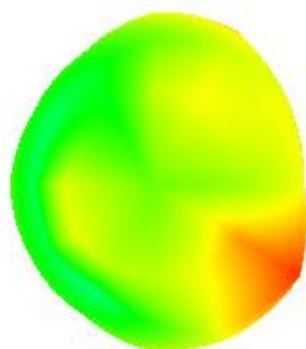
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830.000MHz E2



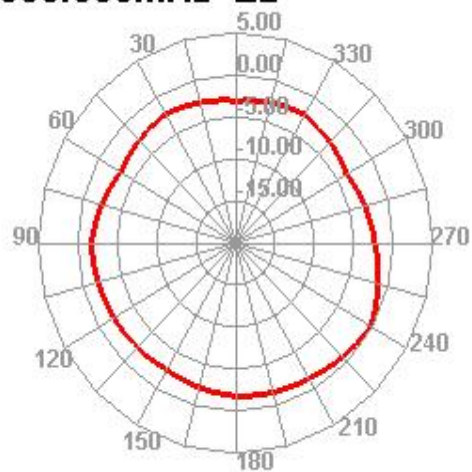
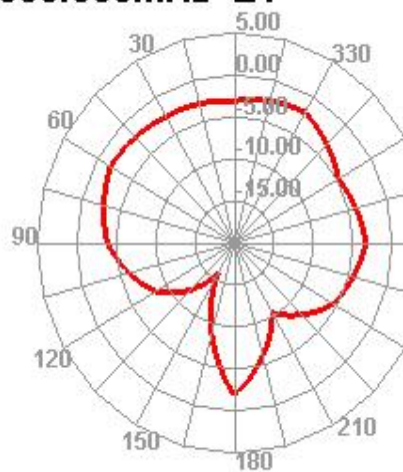
835.000MHz

835.000MHz H



835.000MHz E1

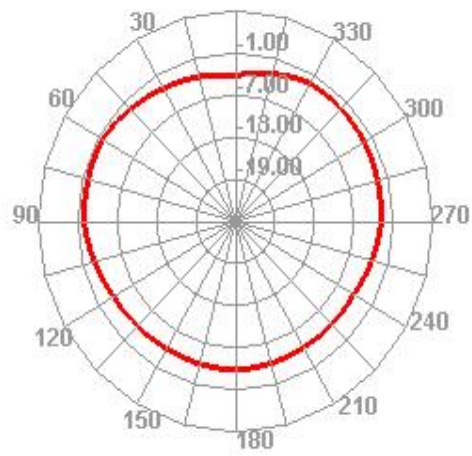
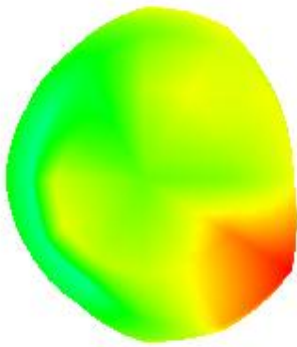
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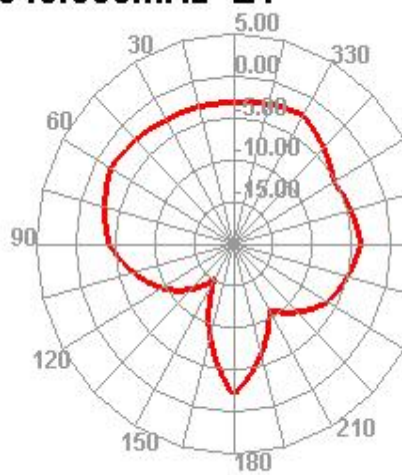
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840.000MHz H

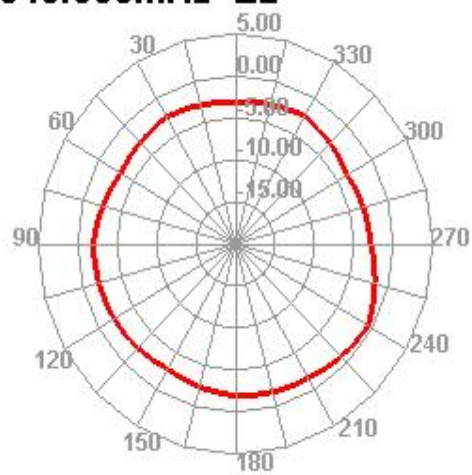




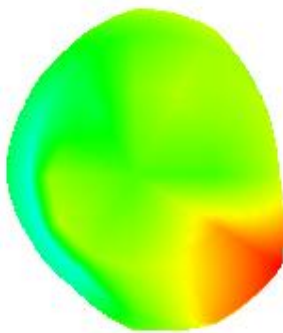
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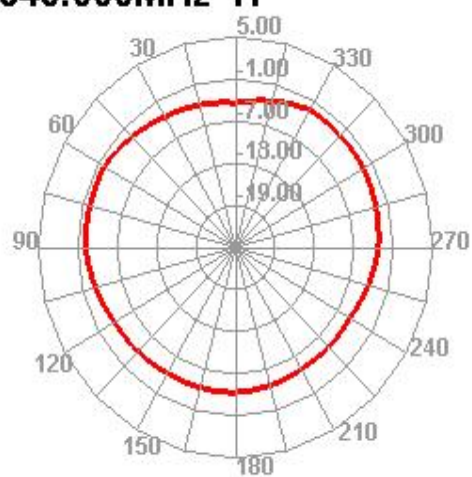
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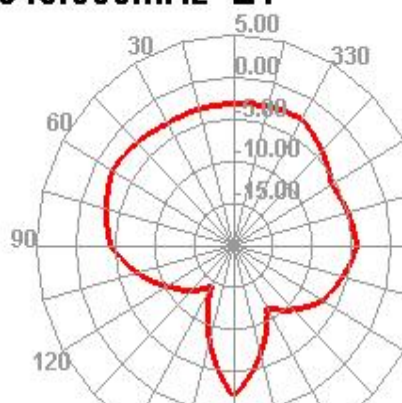
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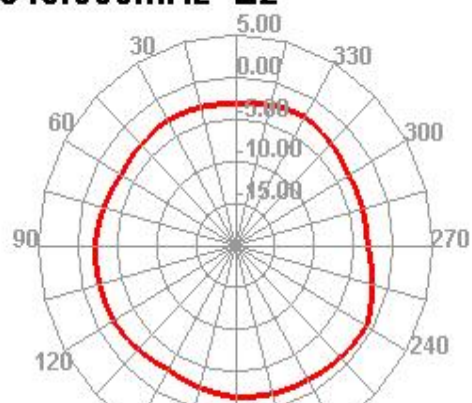
845.000MHz H



845.000MHz E1

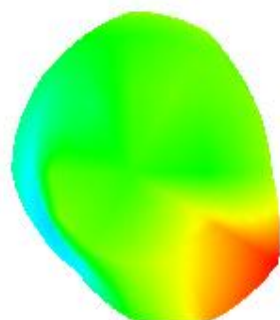


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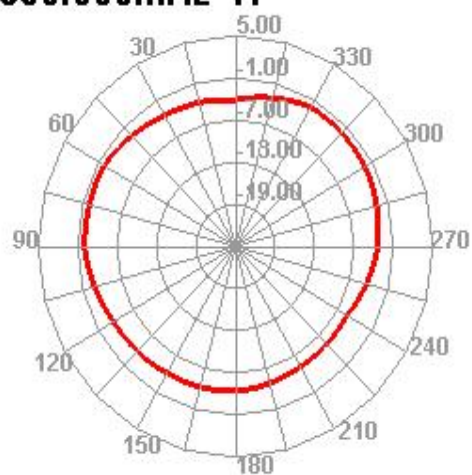




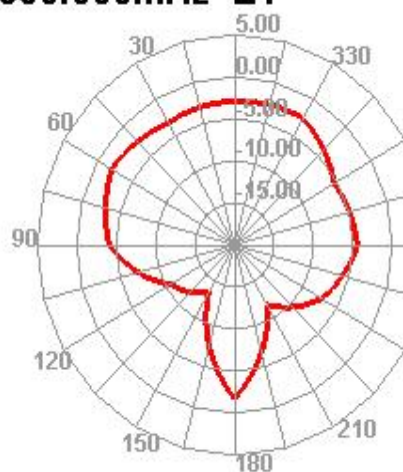
850.000MHz



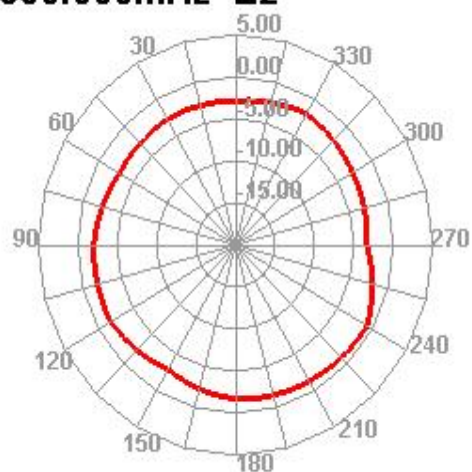
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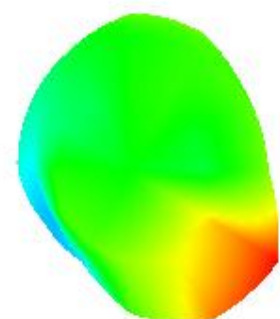
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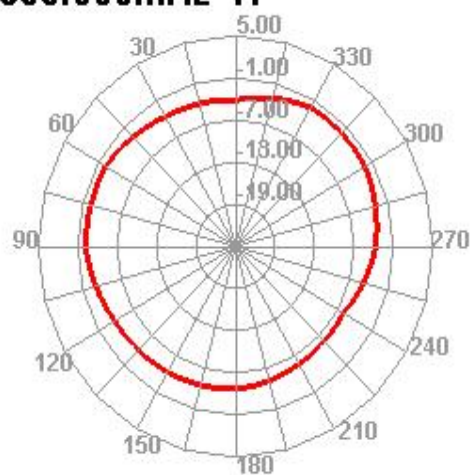
850.000MHz E2



855.000MHz



855.000MHz H

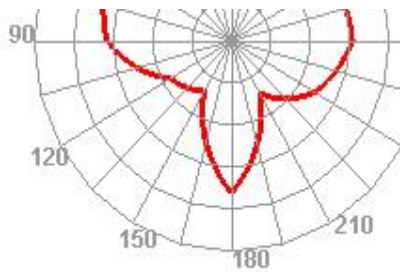


855.000MHz E1

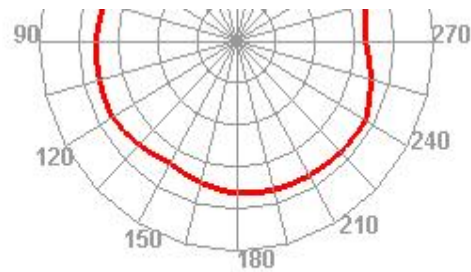
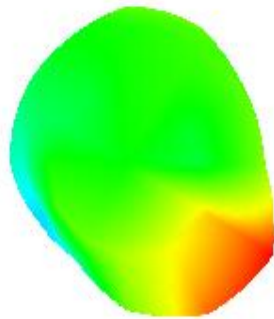


855.000MHz E2

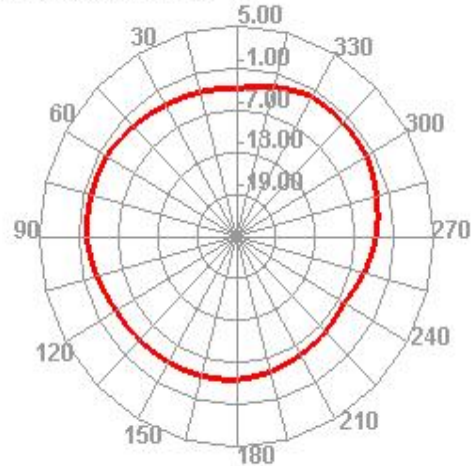




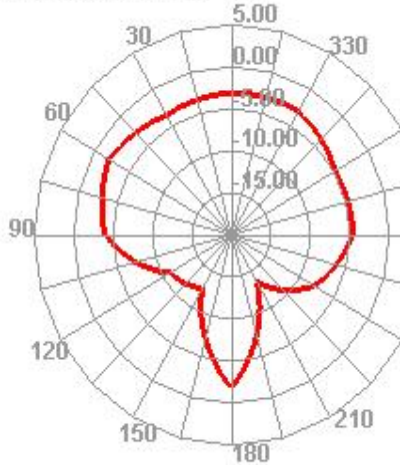
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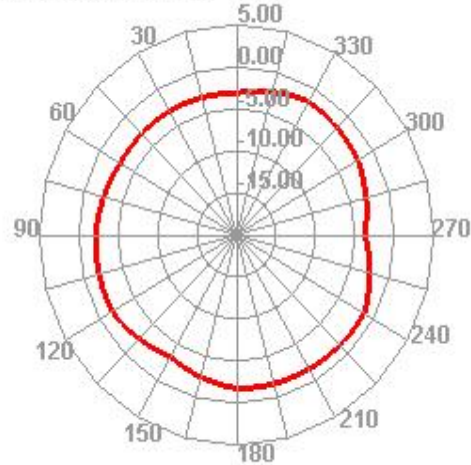
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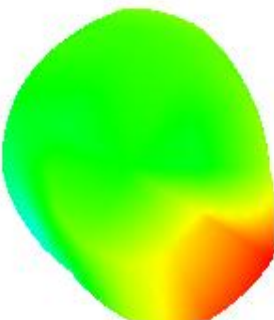
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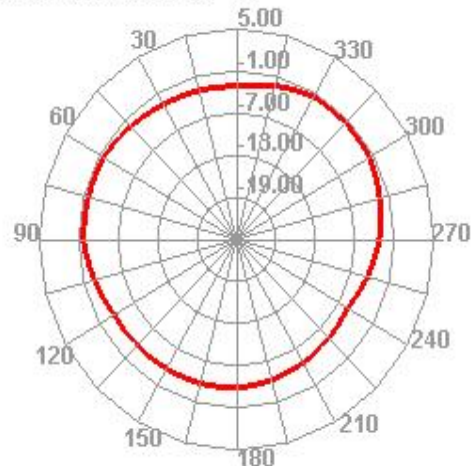
860.000MHz E2



865.000MHz



865.000MHz H

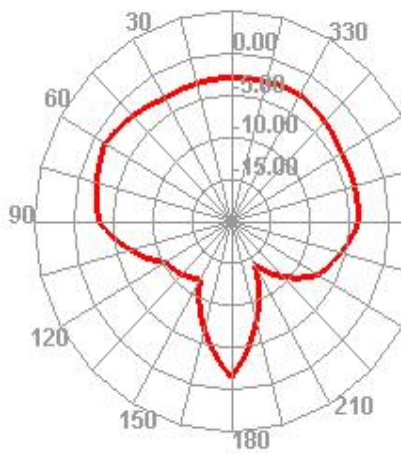


865.000MHz E1

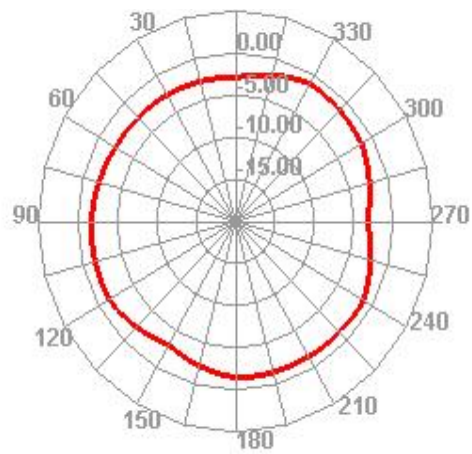
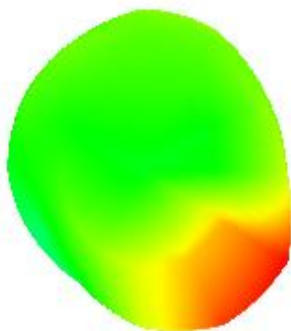


865.000MHz E2

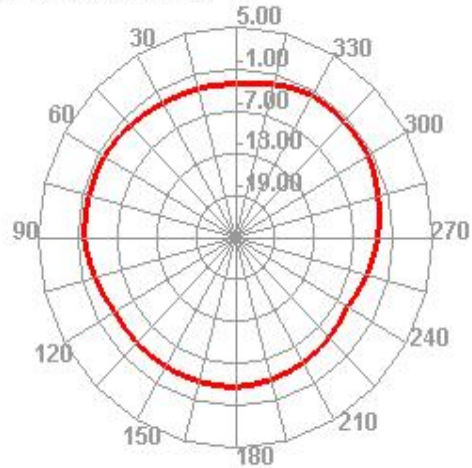




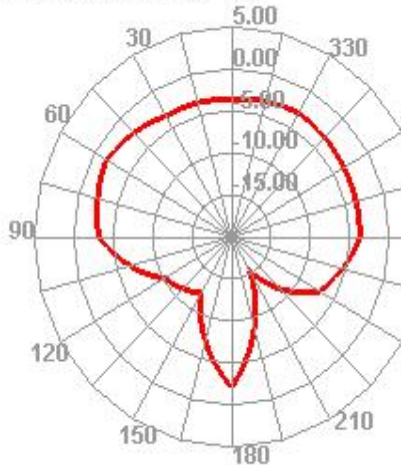
870.000MHz



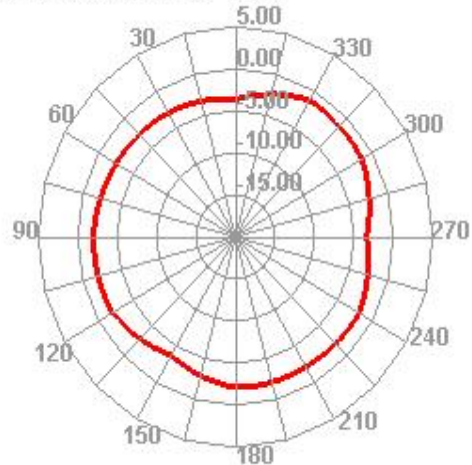
870.000MHz H



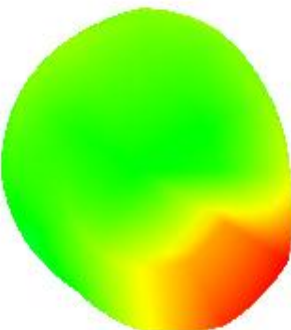
870.000MHz E1



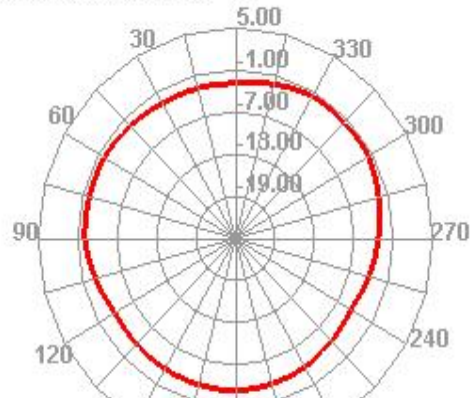
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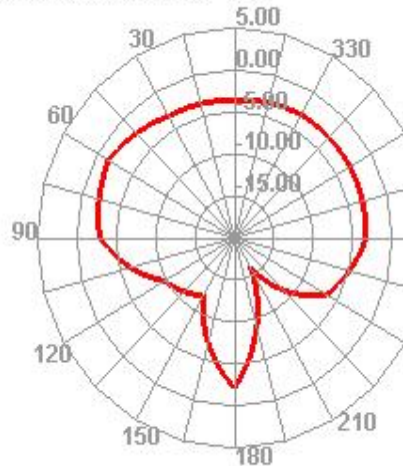
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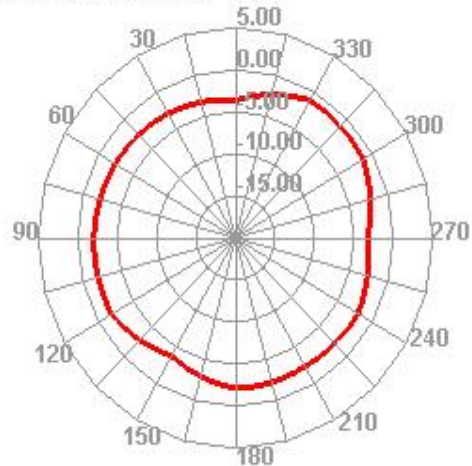
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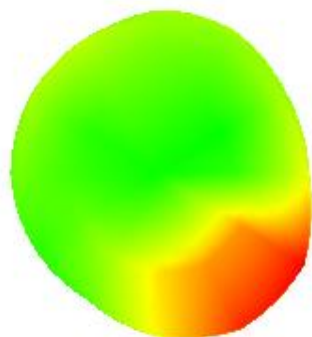
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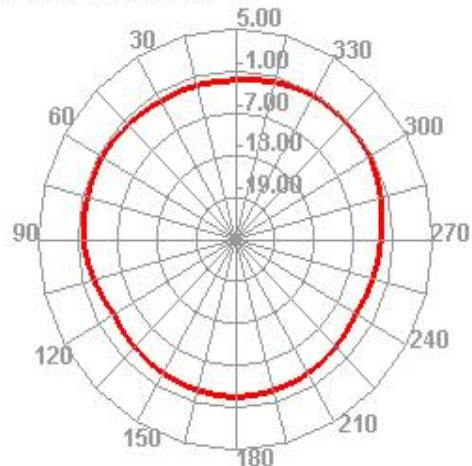
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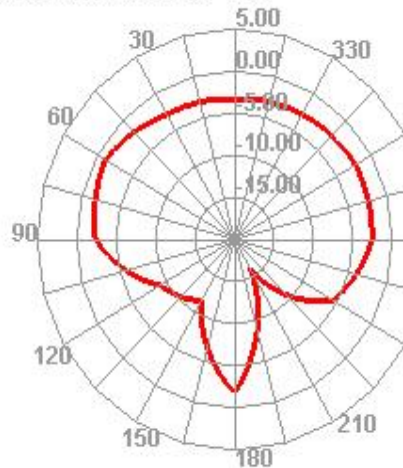
880.000MHz



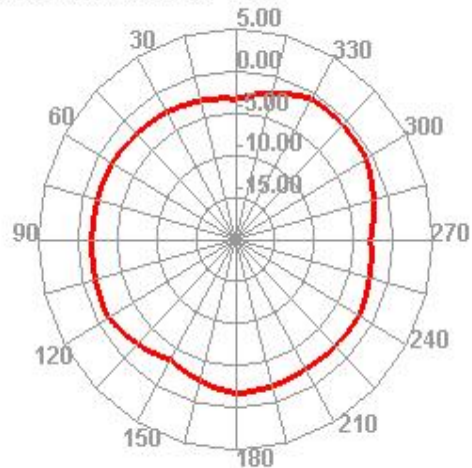
880.000MHz H



880.000MHz E1



880.000MHz E2

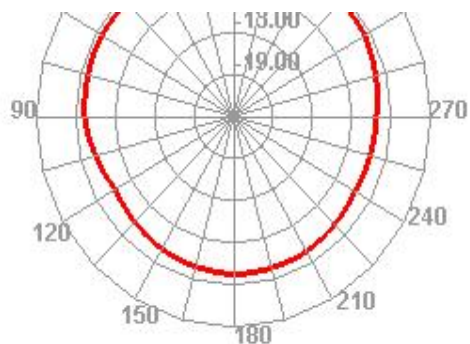
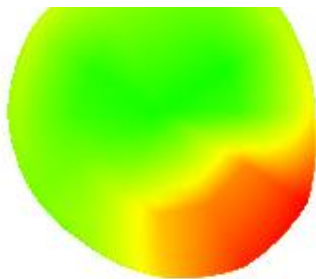


885.000MHz



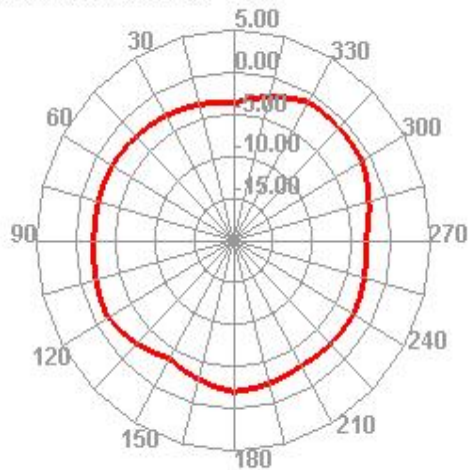
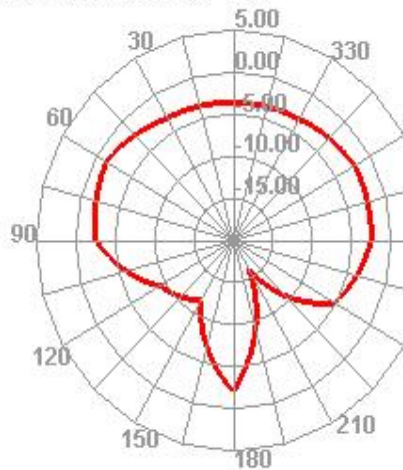
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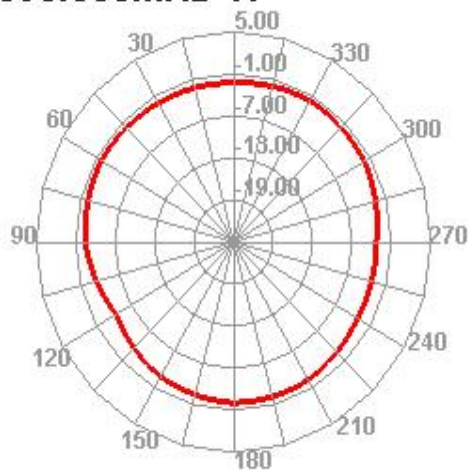
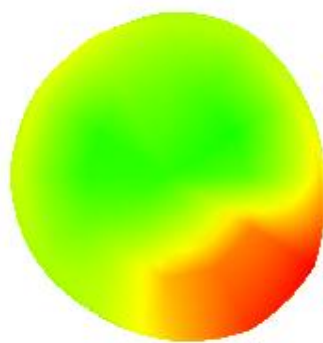
885.000MHz E1

885.000MHz E2



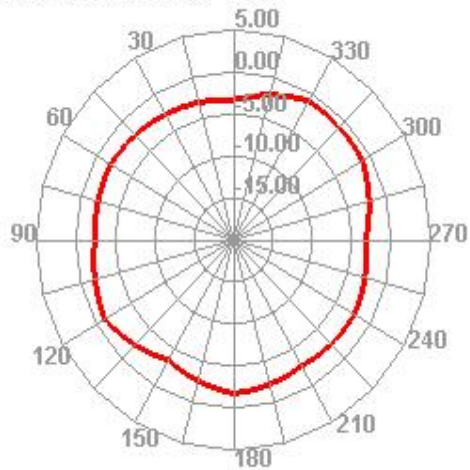
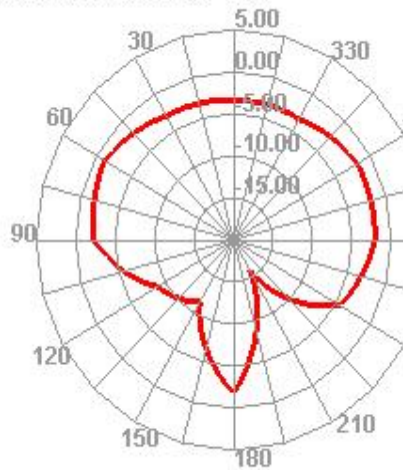
890.000MHz

890.000MHz H

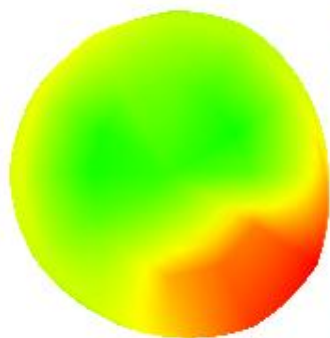


890.000MHz E1

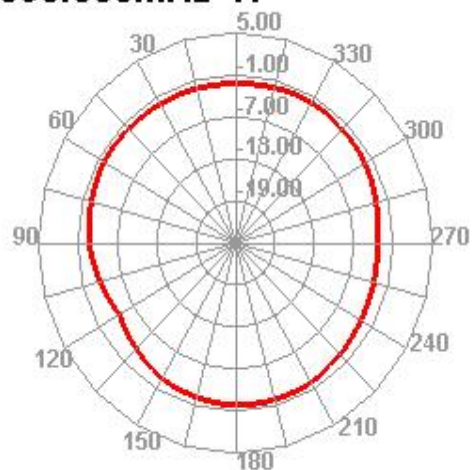
890.000MHz E2



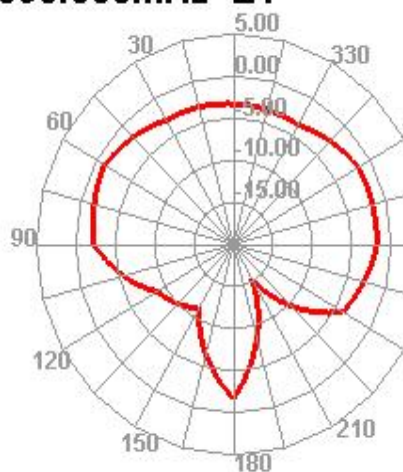
895.000MHz



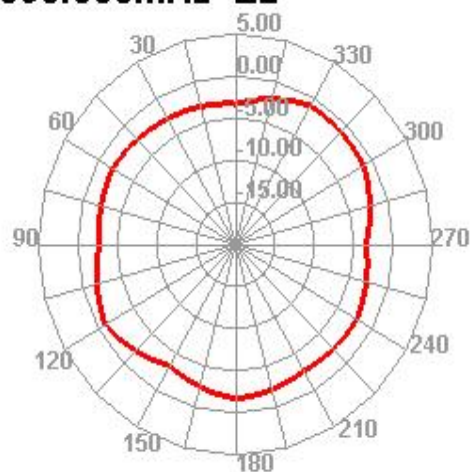
895.000MHz H



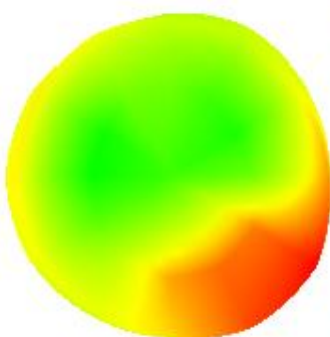
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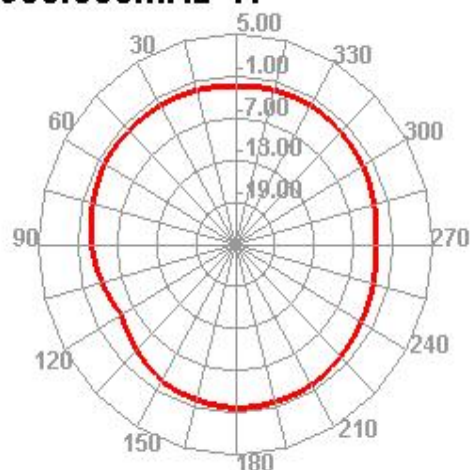
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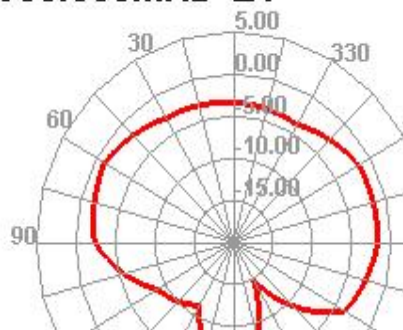
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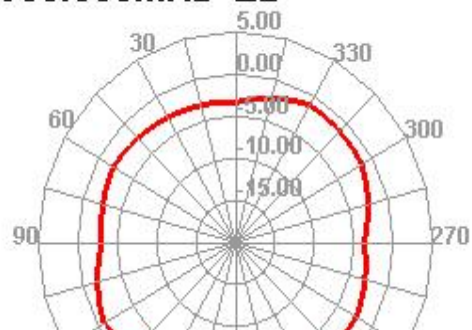
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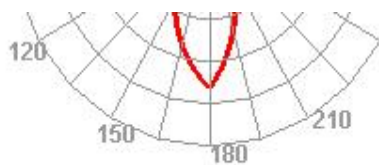


900.000MHz E1

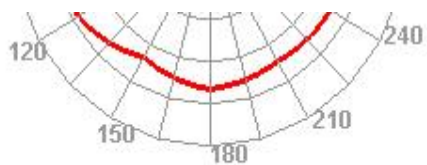
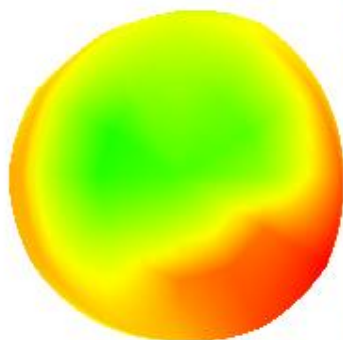


900.000MHz E2

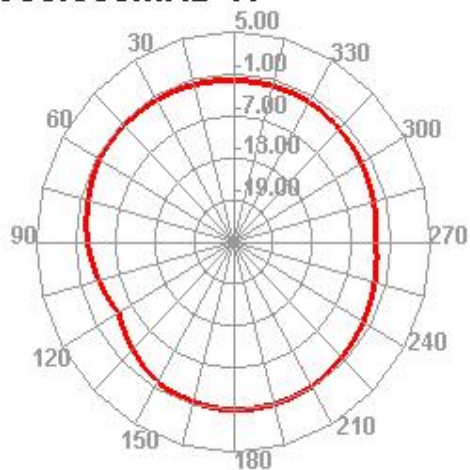




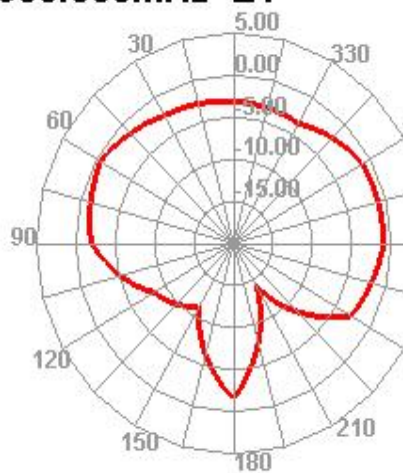
905.000MHz



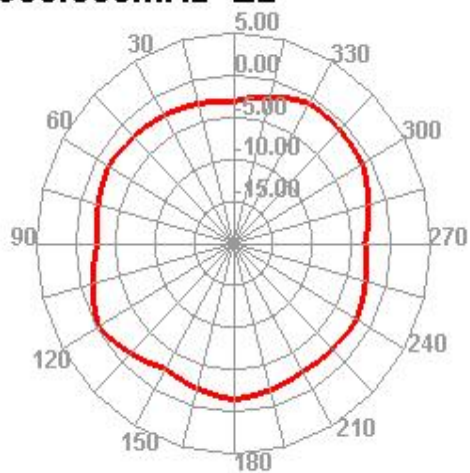
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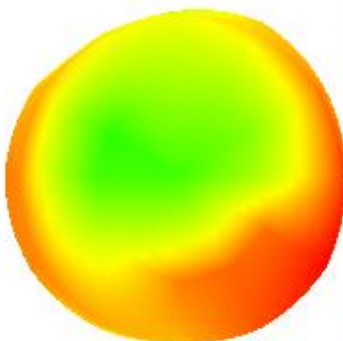
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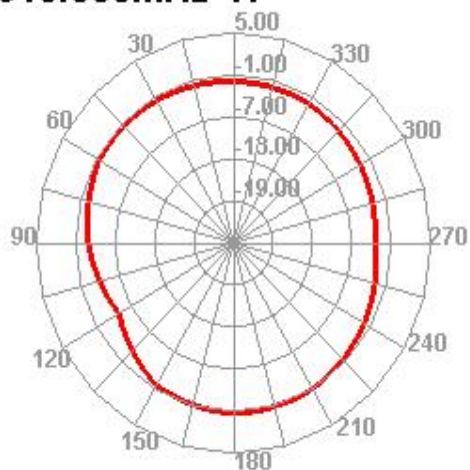
905.000MHz E2



910.000MHz



910.000MHz H

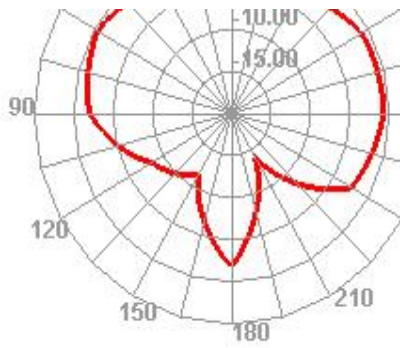


910.000MHz E1

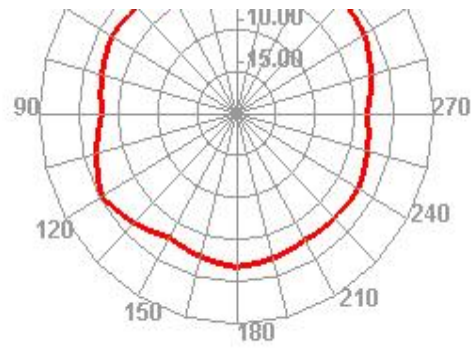
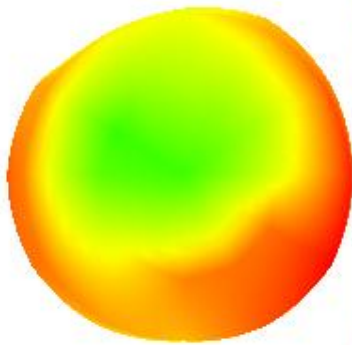


910.000MHz E2

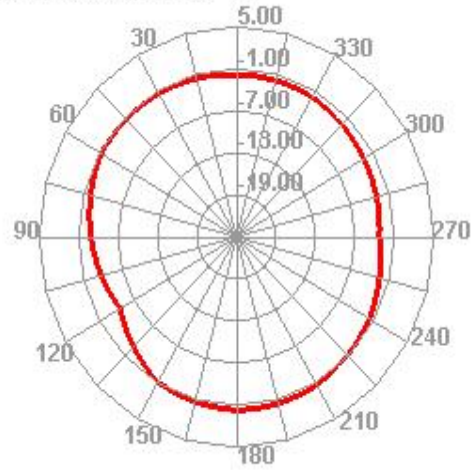




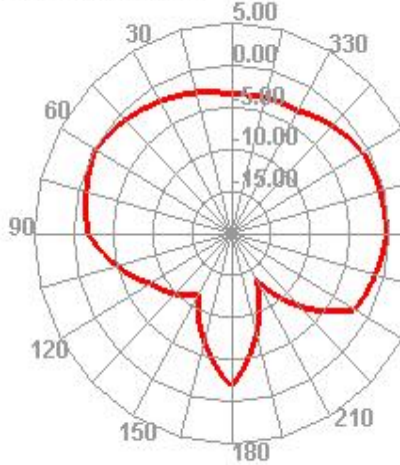
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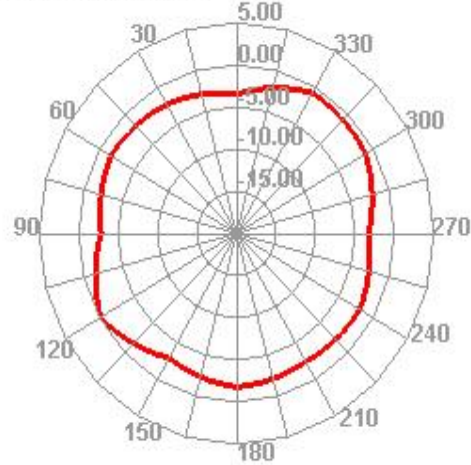
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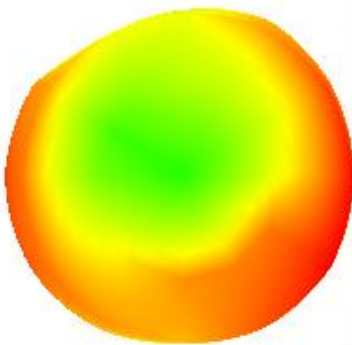
915.000MHz E1



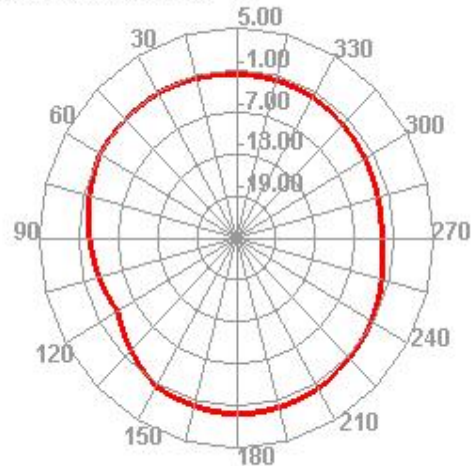
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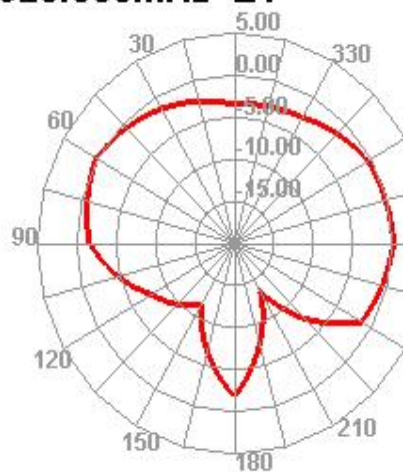
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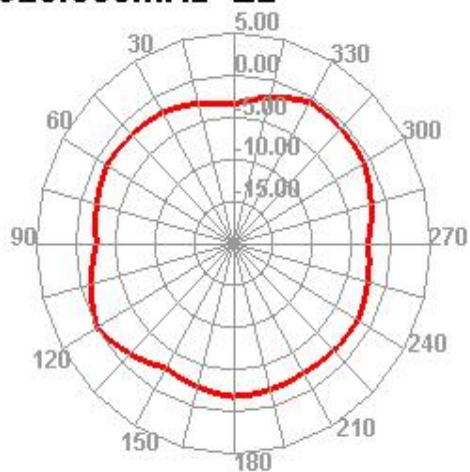
920.000MHz H



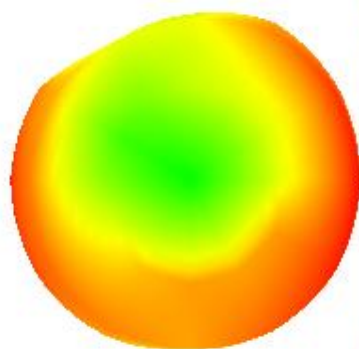
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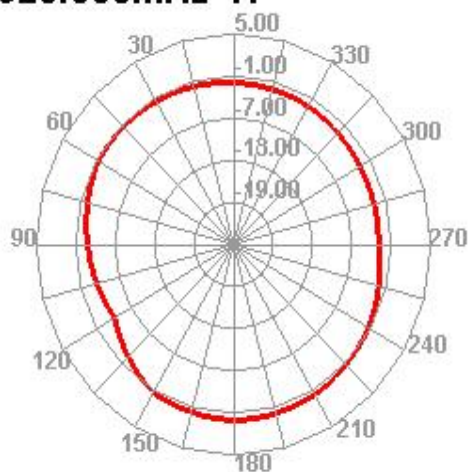
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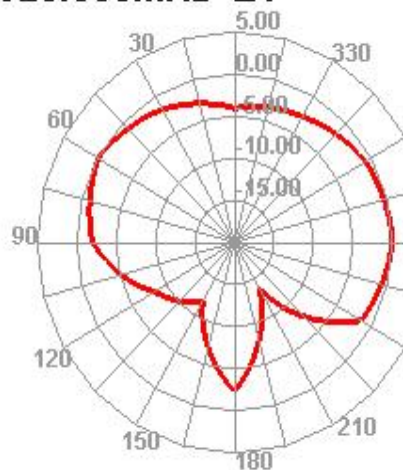
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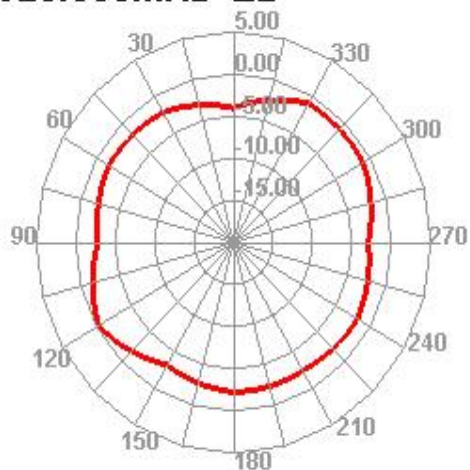
925.000MHz H



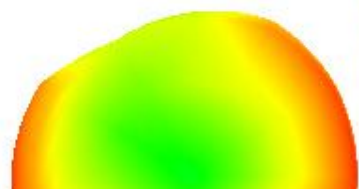
925.000MHz E1



925.000MHz E2

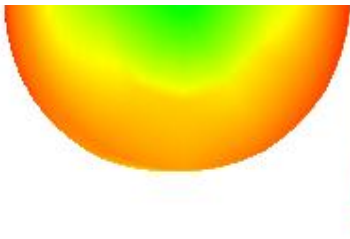


930.000MHz

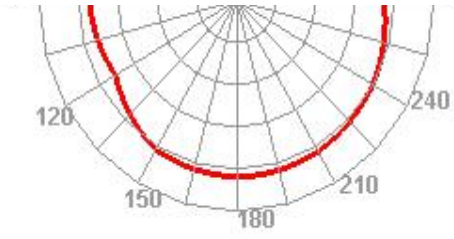


930.000MHz H

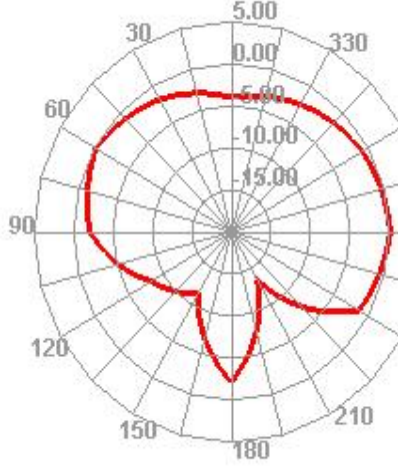




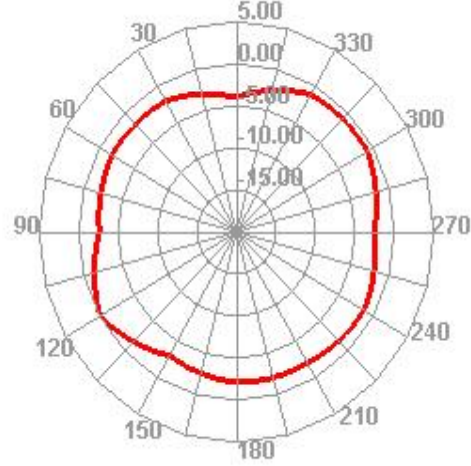
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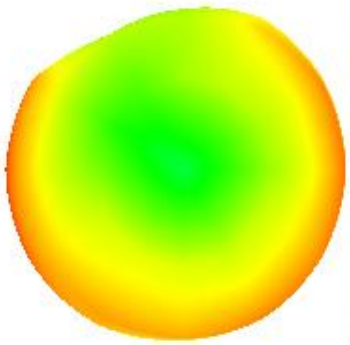
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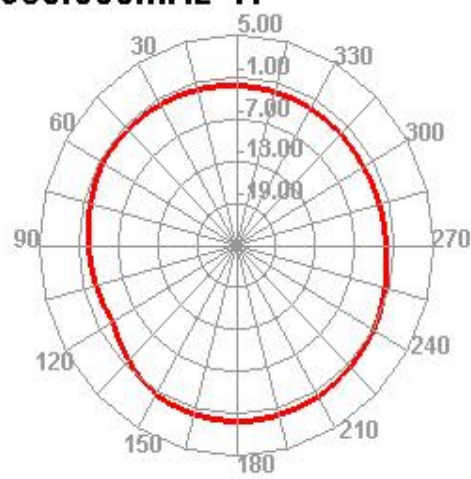
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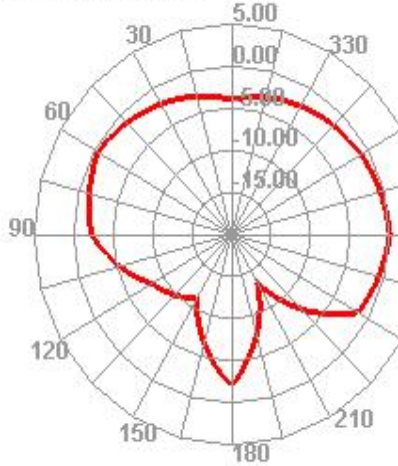
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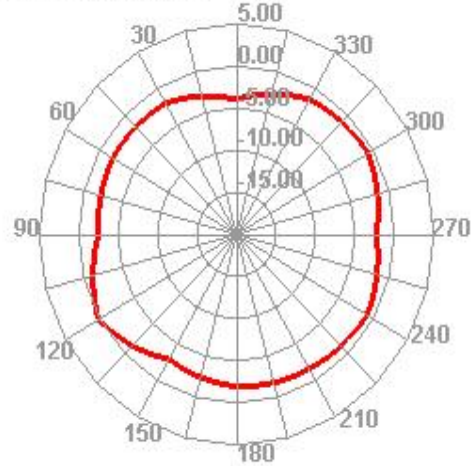
935.000MHz E1



935.000MHz E2

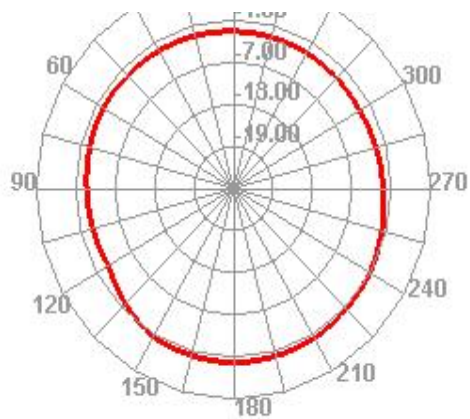
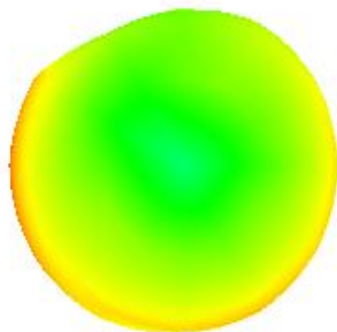


940.000MHz



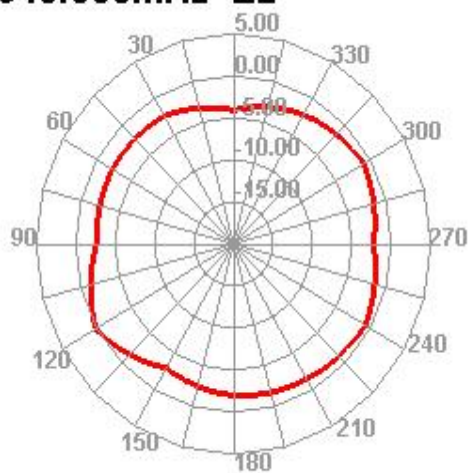
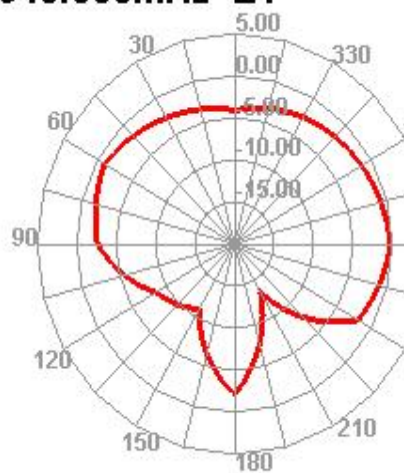
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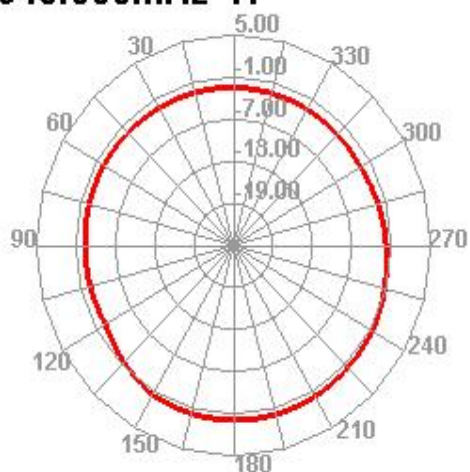
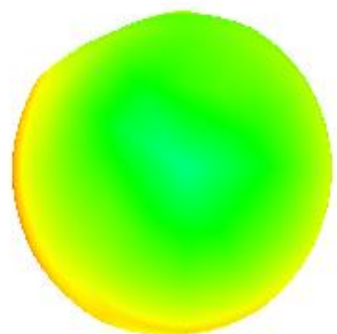
940.000MHz E1

940.000MHz E2



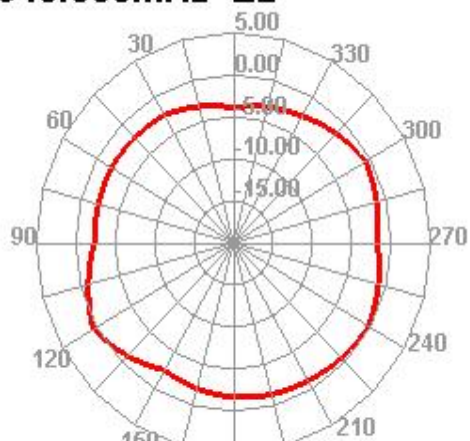
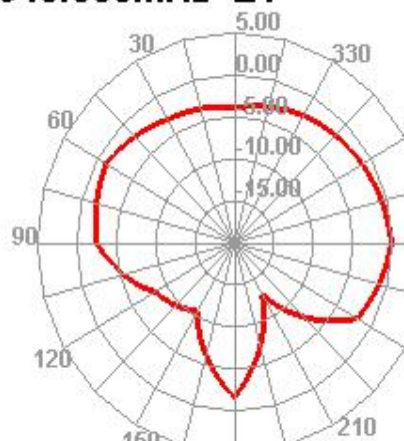
945.000MHz

945.000MHz H



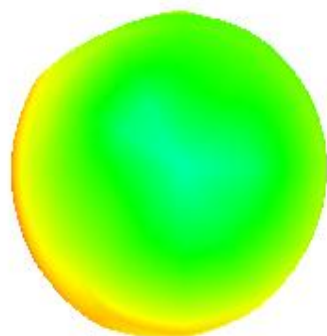
945.000MHz E1

945.000MHz E2



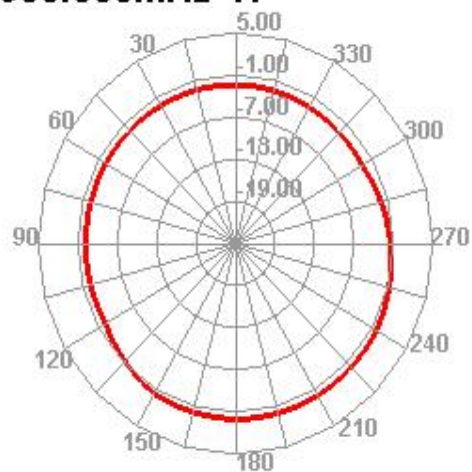
150 180 210

950.000MHz

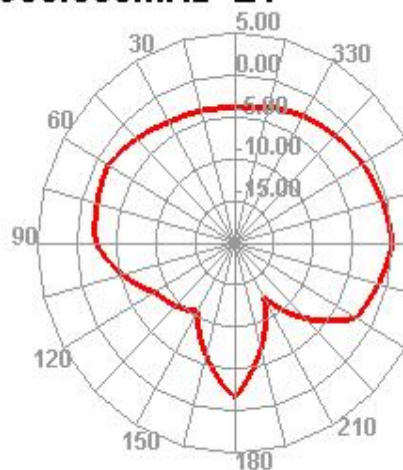


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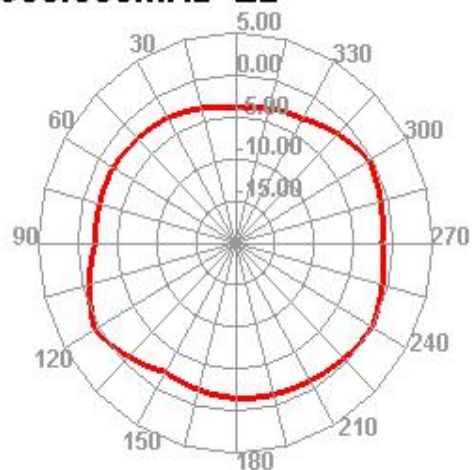
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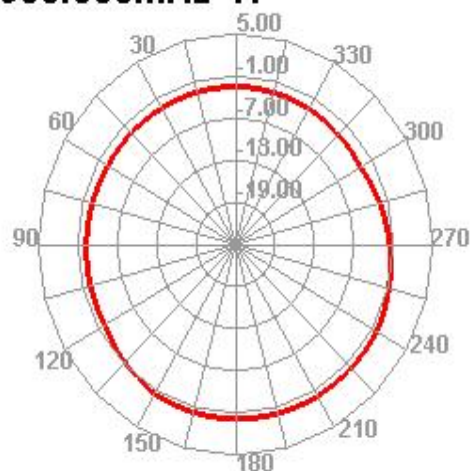
950.000MHz E1



950.000MHz E2



955.000MHz H

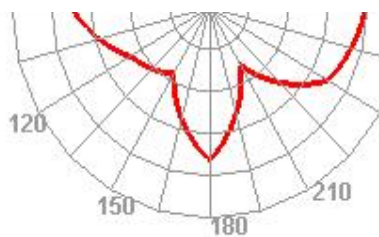


955.000MHz E1

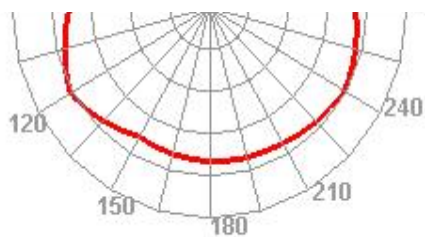


955.000MHz E2

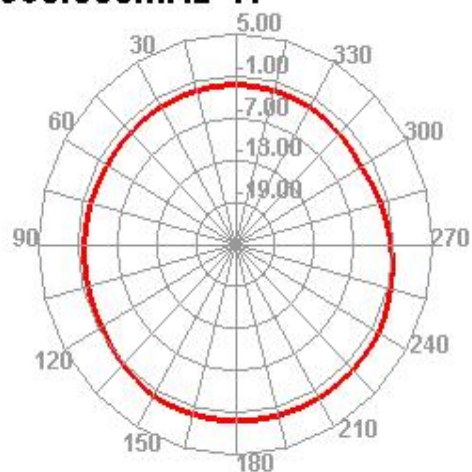




960.000MHz

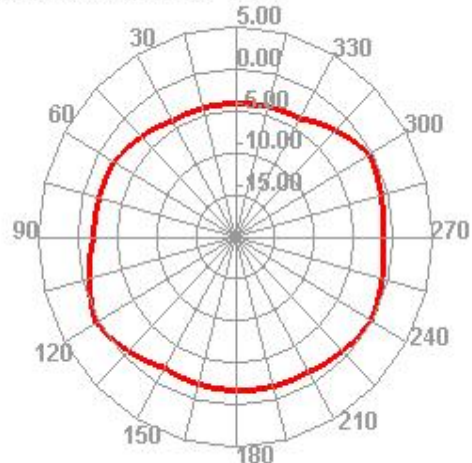
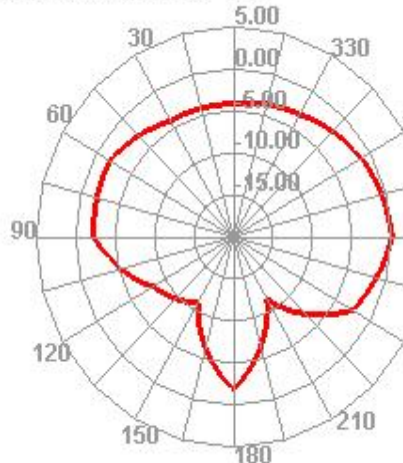


960.000MHz H



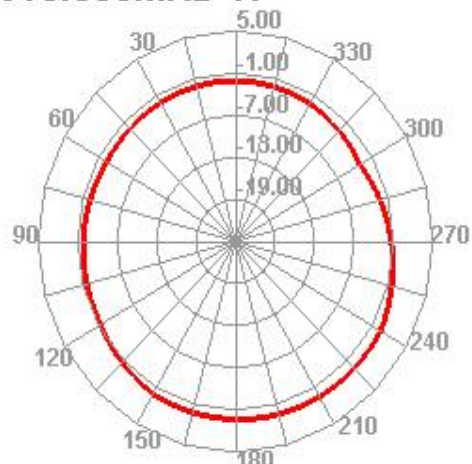
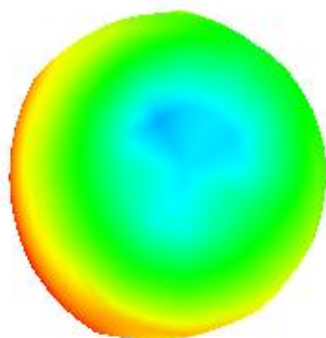
960.000MHz E1

960.000MHz E2



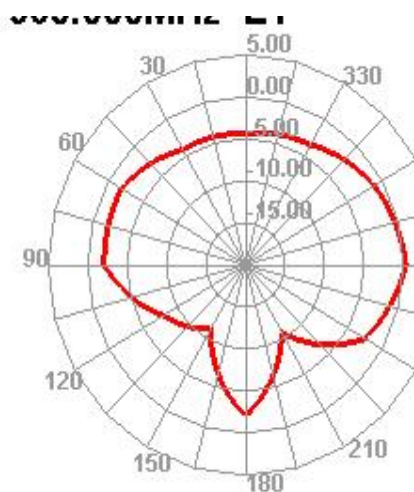
965.000MHz

965.000MHz H

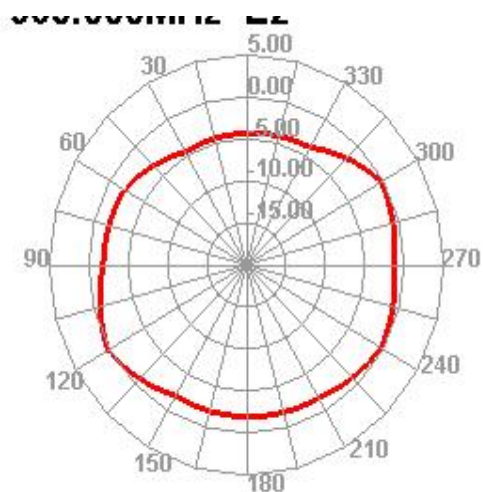


965.000MHz E1

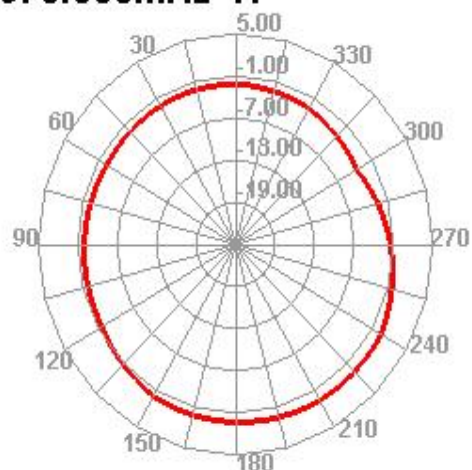
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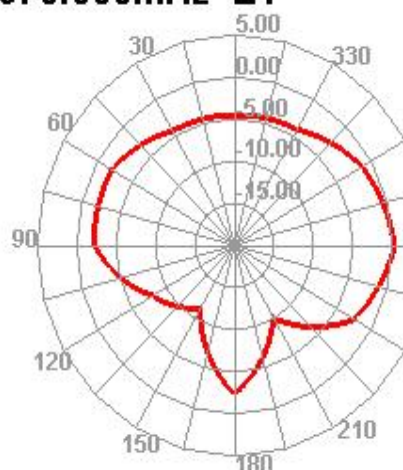
970.000MHz



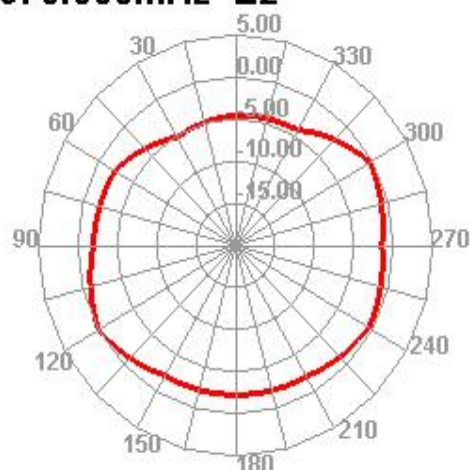
970.000MHz H



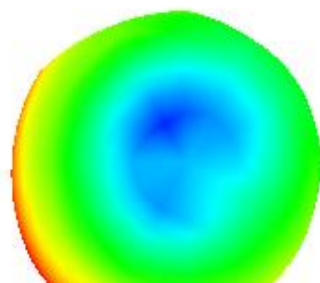
970.000MHz E1



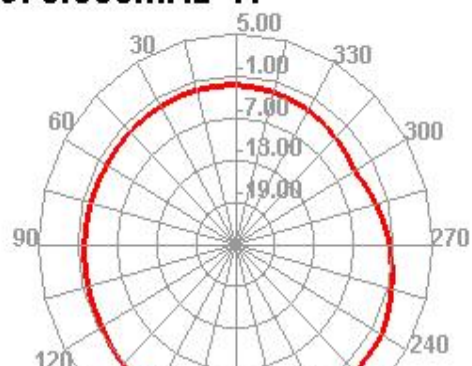
970.000MHz E2

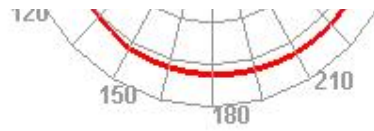


975.000MHz



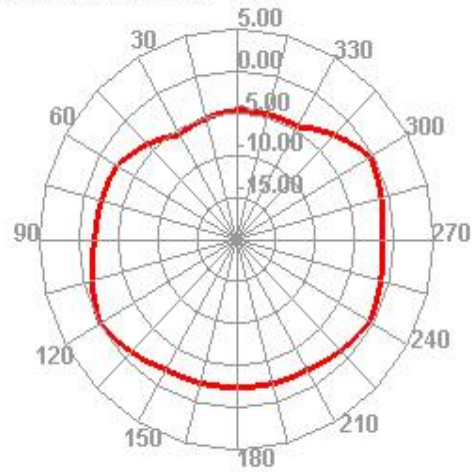
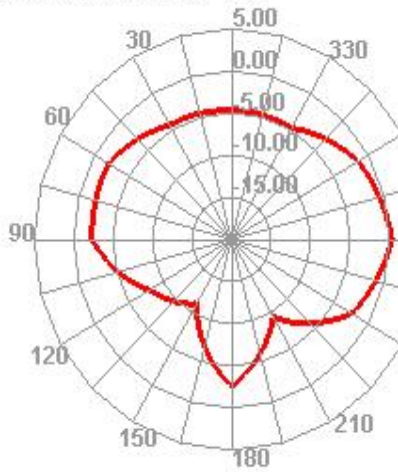
975.000MHz H





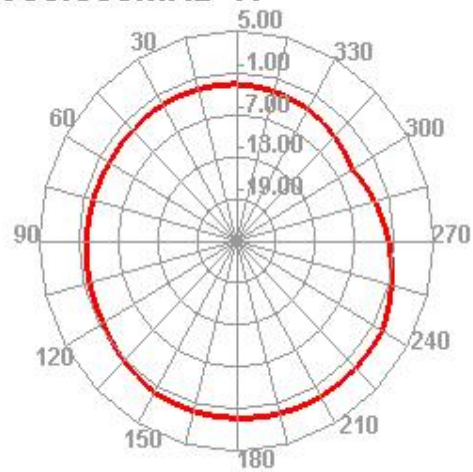
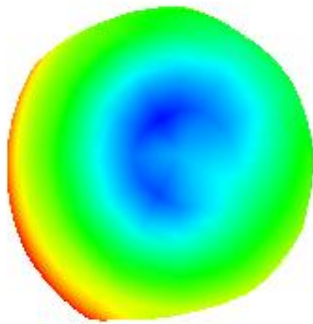
975.000MHz E1

975.000MHz E2



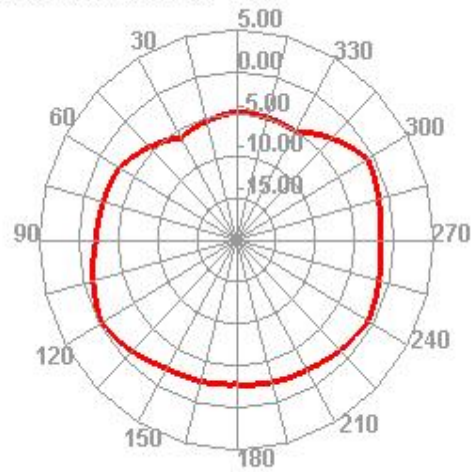
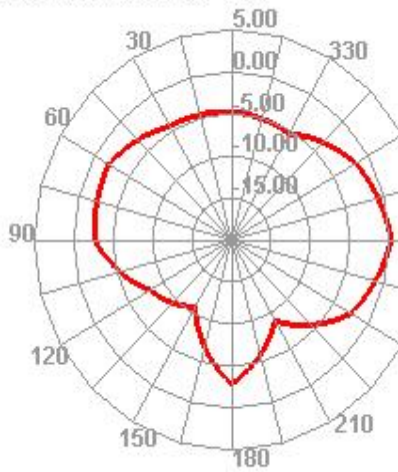
980.000MHz

980.000MHz H



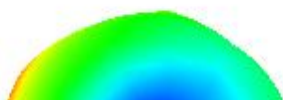
980.000MHz E1

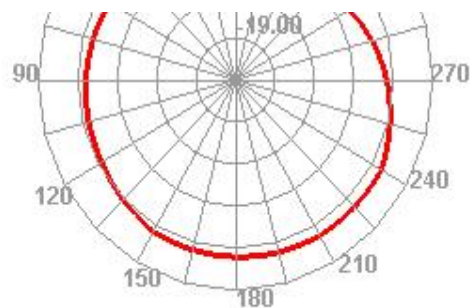
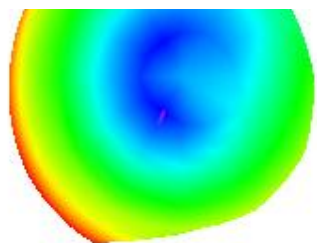
980.000MHz E2



985.000MHz

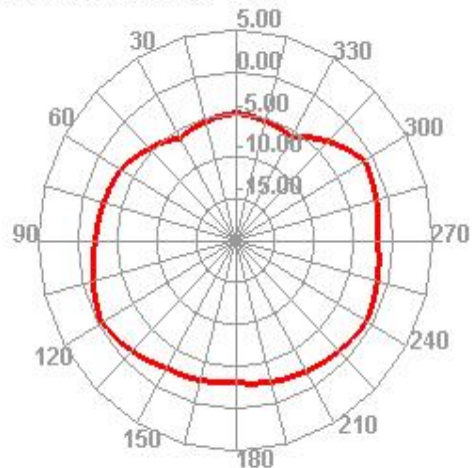
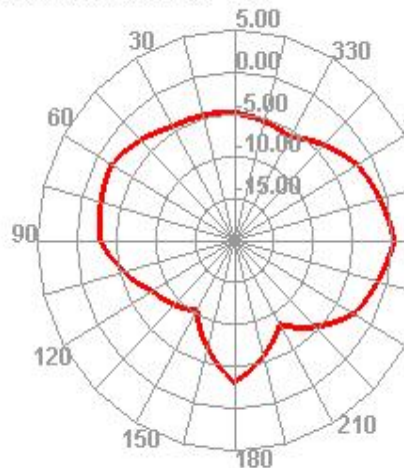
985.000MHz H





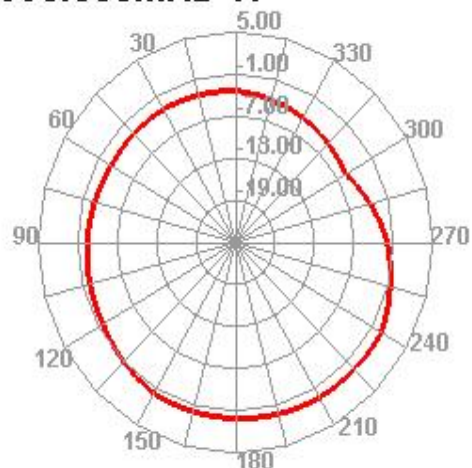
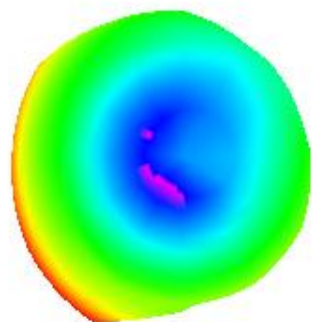
985.000MHz E1

985.000MHz E2



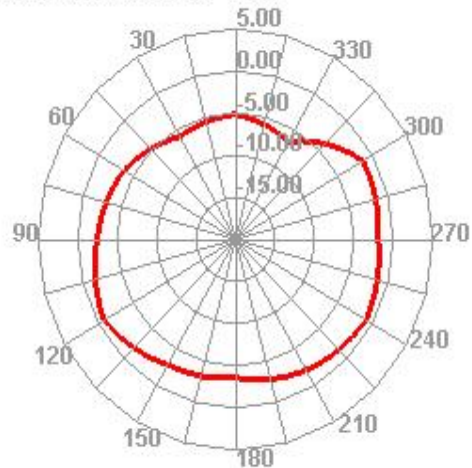
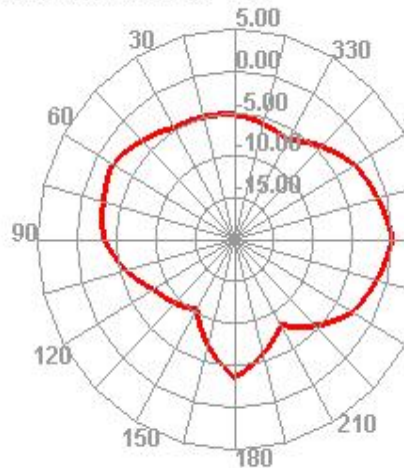
990.000MHz

990.000MHz H



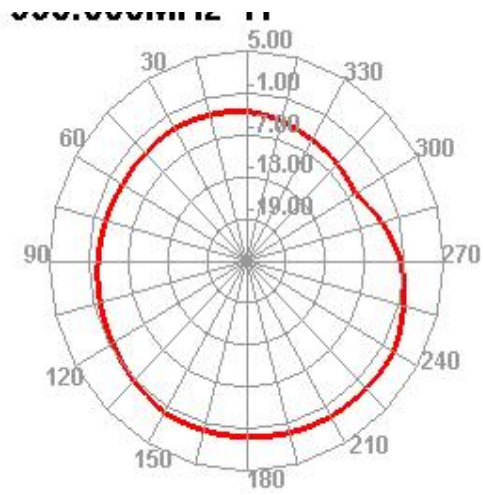
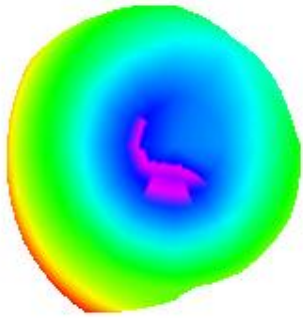
990.000MHz E1

990.000MHz E2

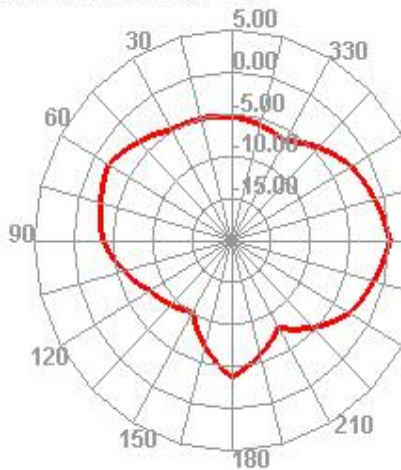


995.000MHz

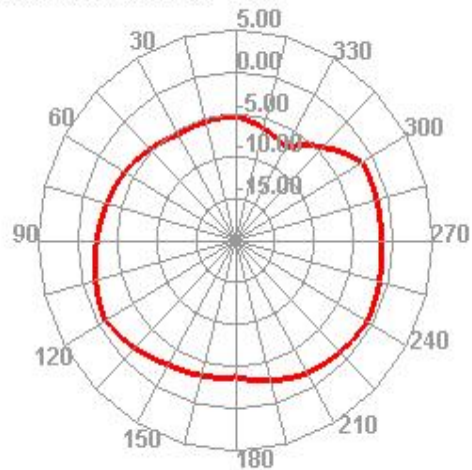
995.000MHz H



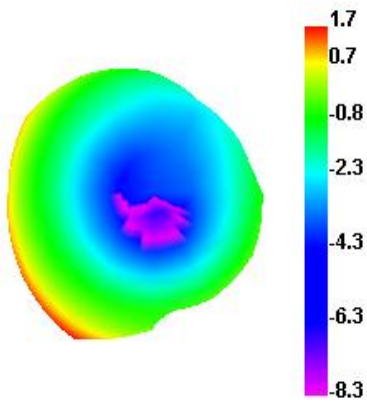
995.000MHz E1



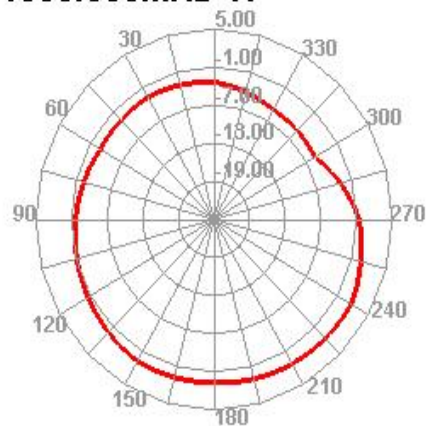
995.000MHz E2



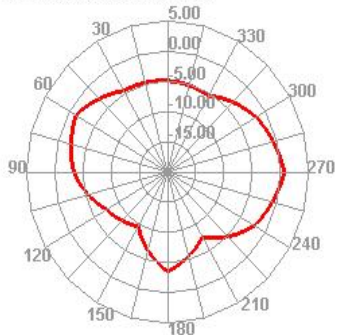
1000.000MHz



1000.000MHz H



1000.000MHz E1



1000.000MHz E2

