



深圳华讯视通科技有限公司
Shenzhen Huaxunshitong Technology Co.,Ltd.

C38H1-无源-天线测试报告

2026-9-15





深圳华讯视通科技有限公司

Shenzhen Huaxunshitong Technology Co.,Ltd.

测试项目与设备

	测试项目	设备
1. S参数 (S-parameter)	1 · 回波损耗 (Return Loss) 2 · 电压驻波比 (VSWR)	网络分析仪: Agilent E5071B HP 8753D
2. 有源测试 (Active)	1 · 发射功率 (TRP) 2 · 接收灵敏度 (TIS)	1 · 暗室: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.综合测试仪: Agilent 8960 E5515B × 2 StarPoint SP6011
3.无源测试 (Passive)	1.天线增益 (Gain) 2.天线效率 (Efficiency)	1 · 暗室: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2 · 网络分析仪: Agilent E5071B HP 8753D



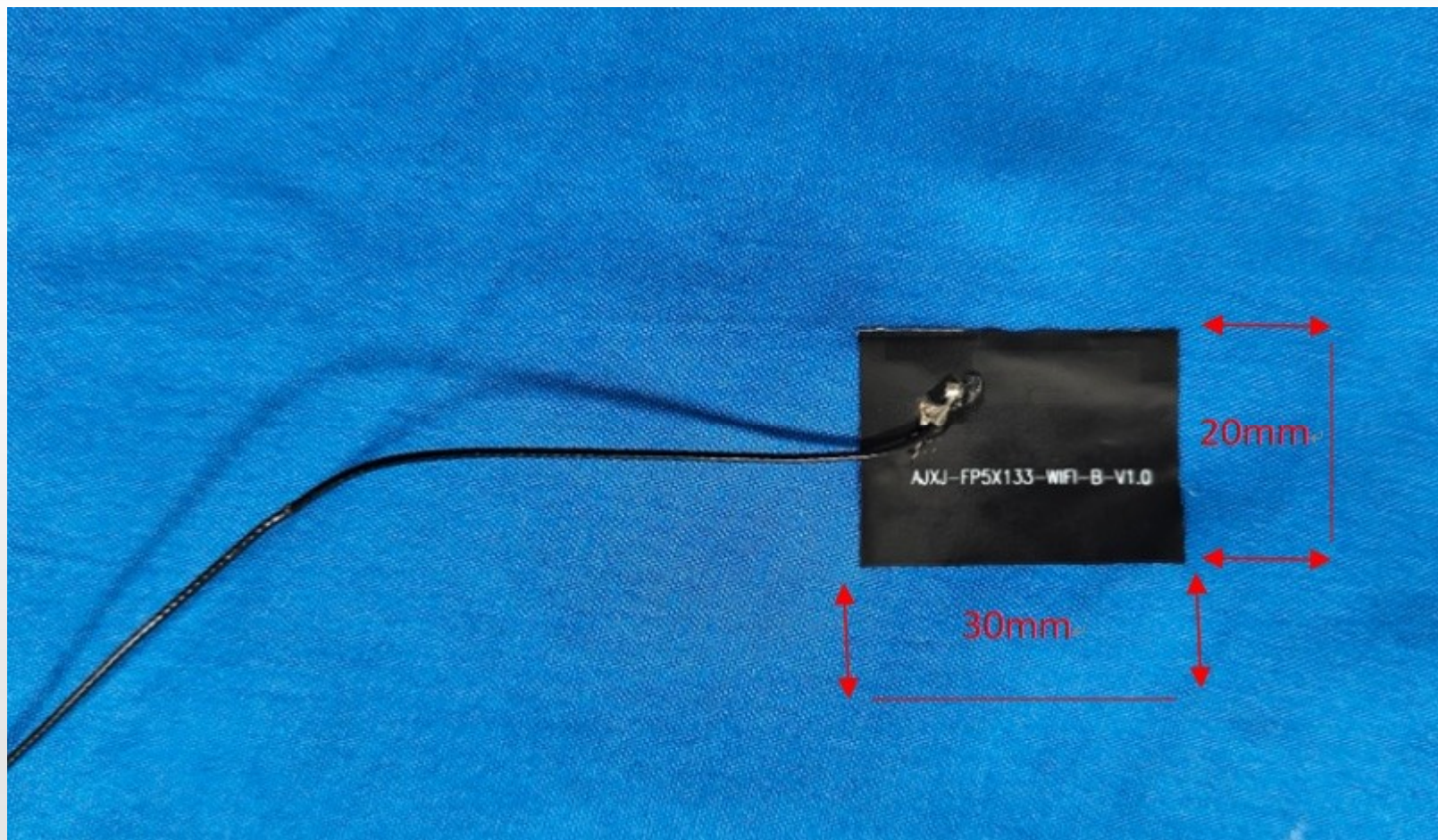


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天线尺寸图



增益与效率

Passive Test For Bt												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2410	34.61	-4.61	0.04	-2.11	14.917	19.691	0.04	-11.78	4.65	90	55.83	58.53
2420	32.62	-4.87	-0.33	-2.48	13.666	18.954	-0.33	-12.17	4.54	90	56.07	58.09
2430	39.67	-4.02	0.67	-1.48	14.964	24.707	0.67	-9.73	4.69	90	56.25	58.05
2440	41.21	-3.85	0.71	-1.44	15.778	25.436	0.71	-9.88	4.56	90	56.61	58.56
2450	44.62	-3.5	1.02	-1.13	17.566	27.052	1.02	-9.5	4.53	90	56.87	58.64
2460	45.46	-3.42	1.22	-0.93	17.068	28.396	1.22	-9.74	4.64	90	56.54	57.97
2470	38.12	-4.19	0.22	-1.93	16.104	22.012	0.22	-10.69	4.41	90	56.17	58.01
2480	41.21	-3.85	0.71	-1.44	15.778	25.436	0.71	-9.88	4.56	90	56.4	57.83
2490	34.61	-4.61	0.04	-2.11	14.917	19.691	0.04	-11.78	4.65	90	56.48	57.83
2500	35.34	-4.52	0.49	-1.66	15.603	19.732	0.49	-12.22	5.01	90	56.61	58.07



增益与效率

Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2410	45.62	-3.41	1.16	-0.99	17.355	28.269	1.16	-11.39	4.57	90	55.83	58.53
2420	45.46	-3.42	1.22	-0.93	17.068	28.396	1.22	-9.74	4.64	90	56.07	58.09
2430	39.67	-4.02	0.67	-1.48	14.964	24.707	0.67	-9.73	4.69	90	56.25	58.05
2440	41.21	-3.85	0.71	-1.44	15.778	25.436	0.71	-9.88	4.56	90	56.61	58.56
2450	44.62	-3.5	1.02	-1.13	17.566	27.052	1.02	-9.5	4.53	90	56.87	58.64
2460	40.54	-3.92	0.63	-1.52	16.393	24.151	0.63	-9.75	4.55	90	56.54	57.97
2470	38.12	-4.19	0.22	-1.93	16.104	22.012	0.22	-10.69	4.41	90	56.17	58.01
2480	32.62	-4.87	-0.33	-2.48	13.666	18.954	-0.33	-12.17	4.54	90	56.4	57.83
2490	34.61	-4.61	0.04	-2.11	14.917	19.691	0.04	-11.78	4.65	90	56.48	57.83
2500	35.34	-4.52	0.49	-1.66	15.603	19.732	0.49	-12.22	5.01	90	56.61	58.07



增益与效率

Passive Test For 5.8G-WIFI												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5000	38.26	-4.17	1.6	-0.55	27.1	11.159	1.6	-14.11	5.77	60	67.59	67.15
5010	36.23	-4.41	1.85	-0.3	25.038	11.194	1.85	-18.31	6.25	30	67.25	67.25
5020	39.17	-4.07	3.21	1.06	27.409	11.763	3.21	-15.61	7.28	60	67.11	66.78
5030	40.95	-3.88	1.72	-0.43	28.236	12.715	1.72	-16.57	5.6	90	67.76	67.35
5040	38.9	-4.1	0.96	-1.19	26.947	11.951	0.96	-14.46	5.06	60	67.13	67.04
5050	32.43	-4.89	1.51	-0.64	22.364	10.063	1.51	-13.02	6.4	30	66.47	66.63
5060	35.88	-4.45	2.08	-0.07	24.608	11.269	2.08	-13.12	6.53	30	67.42	66.67
5070	39.56	-4.03	1.81	-0.34	27.124	12.438	1.81	-15.02	5.83	60	67.46	67.76
5080	36.28	-4.4	1.02	-1.13	24.983	11.297	1.02	-15.49	5.43	60	67.63	67.28
5090	27.18	-5.66	0.14	-2.01	18.889	8.286	0.14	-17.77	5.79	90	66.15	66.39
5100	29.17	-5.35	-0.09	-2.24	19.116	10.055	-0.09	-19.38	5.26	60	66.56	66.39
5110	31.02	-5.08	0.3	-1.85	21.663	9.362	0.3	-19.93	5.38	60	66.88	66.93
5120	39.1	-4.08	1.61	-0.54	26.356	12.74	1.61	-22.09	5.69	60	67.44	67.82
5130	31.22	-5.06	0.96	-1.19	21.456	9.767	0.96	-19.03	6.02	60	67	66.75
5140	30.49	-5.16	0.58	-1.57	20.31	10.184	0.58	-18.88	5.73	60	66.68	67
5150	33.59	-4.74	2.4	0.25	23.438	10.147	2.4	-18.77	7.13	60	67.18	67.14
5160	35.74	-4.47	1.75	-0.4	24.873	10.862	1.75	-21.18	6.22	60	66.81	67.73
5170	27.21	-5.65	1.19	-0.96	19.156	8.052	1.19	-20.53	6.84	30	65.87	66.43
5180	31.04	-5.08	1.14	-1.01	21.032	10.011	1.14	-20.62	6.22	30	66.36	66.36
5190	31.54	-5.01	1.36	-0.79	22.363	9.173	1.36	-15.85	6.38	60	66.92	66.86
5200	39.45	-4.04	1.89	-0.26	27.133	12.317	1.89	-18.07	5.93	30	67.83	67.32
5210	34.59	-4.61	1.99	-0.16	24.15	10.441	1.99	-18.89	6.6	30	66.63	66.87
5220	27.73	-5.57	1.81	-0.34	19.301	8.429	1.81	-19.58	7.38	30	66.14	66.79
5230	30.57	-5.15	1.09	-1.06	21.33	9.236	1.09	-21.51	6.24	30	66.62	66.67
5240	40.87	-3.89	3.56	1.41	26.397	14.476	3.56	-13.59	7.44	30	67.24	67.2
5250	36.94	-4.32	1.7	-0.45	26.517	10.427	1.7	-15.49	6.02	30	66.74	66.84
5260	33.45	-4.76	2.23	0.08	22.84	10.612	2.23	-17.82	6.99	30	66.13	66.86
5270	39.56	-4.03	4.88	2.73	27.895	11.665	4.88	-20.17	8.91	30	67.31	67.39
5280	37.22	-4.29	1.94	-0.21	25.643	11.578	1.94	-13.95	6.23	30	67.44	67.58
5290	36.39	-4.39	1.94	-0.21	24.999	11.387	1.94	-18.23	6.34	30	67.18	67.28



增益与效率

5300	29.88	-5.25	1.06	-1.09	19.934	9.944	1.06	-14.56	6.3	30	66.54	66.18
5310	34.65	-4.6	1.71	-0.44	23.425	11.223	1.71	-16.32	6.31	30	67.13	67.4
5320	43.14	-3.65	2.59	0.44	27.717	15.418	2.59	-16.26	6.25	30	67.85	67.87
5330	43.57	-3.61	1.99	-0.16	29.735	13.834	1.99	-16.72	5.6	30	68.01	67.78
5340	40.22	-3.96	2.27	0.12	25.851	14.367	2.27	-15.57	6.22	30	67.21	67.25
5350	38.98	-4.09	2.22	0.07	26.267	12.713	2.22	-18.51	6.31	30	67.31	67.51
5360	48.71	-3.12	3.07	0.92	33.262	15.446	3.07	-26.52	6.2	30	68.07	68.63
5370	39.93	-3.99	1.29	-0.86	26.295	13.633	1.29	-17.24	5.27	30	67.01	67.79
5380	36.03	-4.43	0.66	-1.49	22.908	13.126	0.66	-15.36	5.1	60	67.01	67.08
5390	42.19	-3.75	1.52	-0.63	27.862	14.323	1.52	-19.34	5.27	60	67.71	68.23
5400	45.63	-3.41	2.47	0.32	29.039	16.587	2.47	-24.62	5.88	60	68.37	68.36
5410	51.15	-2.91	2.46	0.31	32.475	18.673	2.46	-15.33	5.37	30	68.69	68.99
5420	41.18	-3.85	1.37	-0.78	27.658	13.521	1.37	-13.27	5.22	30	68.22	68.54
5430	43.82	-3.58	2.81	0.66	29.604	14.215	2.81	-14.66	6.39	0	68.79	68.71
5440	51.44	-2.89	1.73	-0.42	33.131	18.313	1.73	-18.38	4.62	90	69.15	69.68
5450	61.06	-2.14	4.94	2.79	41.202	19.858	4.94	-14.2	7.08	60	69.39	70.32
5460	55.73	-2.54	2.88	0.73	34.428	21.306	2.88	-14.15	5.42	30	68.71	69.65
5470	60.08	-2.21	3.8	1.65	38.044	22.037	3.8	-15.81	6.01	0	69.96	70.43
5480	64.64	-1.9	3.15	1	41.194	23.441	3.15	-14.84	5.04	60	70.59	70.87
5490	76.4	-1.17	4.57	2.42	46.059	30.342	4.57	-12.15	5.74	60	71.44	72.04
5500	70.55	-1.52	3.42	1.27	46.944	23.602	3.42	-13.43	4.94	120	70.94	71.47
5510	79.08	-1.02	3.91	1.76	46.066	33.015	3.91	-9.52	4.93	60	71.33	71.74
5520	73.52	-1.34	4.65	2.5	46.519	27.004	4.65	-11.62	5.99	60	71.27	72.5
5530	69.47	-1.58	4.41	2.26	39.908	29.565	4.41	-13.1	5.99	60	71.35	72.23
5540	74.17	-1.3	4.2	2.05	48.114	26.061	4.2	-12.2	5.5	60	71.82	72.96
5550	74.76	-1.26	3.76	1.61	43.81	30.949	3.76	-17.83	5.03	60	71.36	72.61
5560	63.99	-1.94	5.32	3.17	40.342	23.648	5.32	-12.53	7.26	60	71.89	72.61
5570	66.74	-1.76	4.69	2.54	37.358	29.382	4.69	-14	6.44	90	71.6	72.72
5580	66.86	-1.75	3.42	1.27	39.841	27.019	3.42	-18.05	5.17	60	71.96	73.06
5590	78.92	-1.03	5.37	3.22	42.868	36.053	5.37	-14.97	6.39	60	71.65	72.87



增益与效率

5600	74.62	-1.27	5.27	3.12	46.874	27.745	5.27	-10.98	6.54	0	71.47	73.22
5610	63.2	-1.99	3.62	1.47	40.386	22.81	3.62	-9.59	5.61	60	71.96	72.93
5620	65.31	-1.85	4.23	2.08	39.83	25.479	4.23	-15.87	6.08	60	71.01	72.79
5630	52.53	-2.8	3.54	1.39	31.091	21.437	3.54	-15.07	6.34	90	70.85	72.39
5640	55.42	-2.56	2.49	0.34	30.672	24.747	2.49	-14.13	5.05	30	71.18	71.44
5650	83.45	-0.79	6.52	4.37	40.263	43.192	6.52	-9.69	7.31	0	71.79	72.29
5660	60.52	-2.18	2.8	0.65	35.161	25.357	2.8	-12.31	4.98	120	70.44	72.31
5670	54.56	-2.63	2.61	0.46	32.317	22.238	2.61	-11.72	5.24	30	70.08	72.1
5680	50.76	-2.94	3.76	1.61	32.101	18.658	3.76	-11.15	6.71	30	70.33	71.36
5690	56.65	-2.47	4.77	2.62	33.303	23.349	4.77	-14.1	7.23	0	70.33	71.86
5700	46.58	-3.32	2.29	0.14	26.77	19.815	2.29	-13.22	5.6	60	70.18	70.93
5710	46.31	-3.34	1.99	-0.16	27.2	19.108	1.99	-10.7	5.33	30	69.69	70.25
5720	52.88	-2.77	2.08	-0.07	32.321	20.562	2.08	-15.25	4.85	30	69.32	70.36
5730	43.82	-3.58	2.22	0.07	26.313	17.511	2.22	-16.06	5.81	30	68.89	69.94
5740	48.01	-3.19	1.99	-0.16	27.291	20.721	1.99	-15.74	5.17	30	69.81	70.54
5750	57.23	-2.42	4.84	2.69	32.453	24.779	4.84	-10.81	7.26	30	69.58	70.68
5760	54.57	-2.63	2.69	0.54	34.856	19.714	2.69	-13.4	5.32	0	69.91	71.25
5770	42.01	-3.77	1.03	-1.12	25.006	17.008	1.03	-12.92	4.79	0	69.93	70.79
5780	40.72	-3.9	1.27	-0.88	22.745	17.978	1.27	-13.53	5.17	0	70.15	71.07
5790	40.53	-3.92	2.12	-0.03	24.881	15.647	2.12	-15.74	6.04	30	69.67	70.57
5800	55.63	-2.55	3.04	0.89	31.301	24.33	3.04	-11.36	5.59	60	70	71.21
5810	43.6	-3.61	1.36	-0.79	26.944	16.652	1.36	-13.85	4.97	30	69.83	71.13
5820	42.69	-3.7	2.25	0.1	25.888	16.798	2.25	-11.24	5.95	0	70.29	71.5
5830	33.19	-4.79	0.49	-1.66	20.442	12.748	0.49	-15.56	5.28	60	70.64	70.74
5840	49.43	-3.06	2.87	0.72	30.909	18.517	2.87	-12.34	5.93	30	70.75	72.13
5850	49.75	-3.03	2.94	0.79	29.319	20.433	2.94	-17.72	5.97	0	70.78	70.75
5860	64.58	-1.9	5.25	3.1	34.962	29.613	5.25	-10.99	7.15	60	71.11	71.73
5870	42.72	-3.69	1.48	-0.67	26.355	16.361	1.48	-15.65	5.17	30	70.79	71.9
5880	57.32	-2.42	2.9	0.75	35.511	21.809	2.9	-11.94	5.31	30	70.61	73.79
5890	49.49	-3.05	1.17	-0.98	29.078	20.412	1.17	-19.61	4.22	90	70.99	72.54



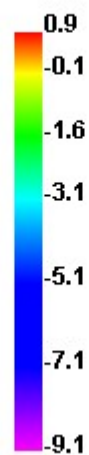
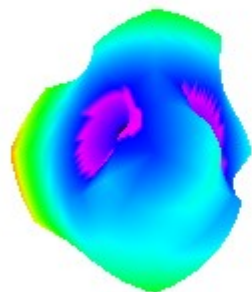
增益与效率

5900	43.39	-3.63	4.19	2.04	22.068	21.324	4.19	-12.7	7.81	0	70.5	72.38
5910	44.17	-3.55	1.56	-0.59	26.787	17.386	1.56	-17.71	5.11	90	71.07	72.21
5920	48.29	-3.16	4.42	2.27	31.787	16.503	4.42	-13.77	7.58	60	70.67	72.55
5930	55.37	-2.57	3.23	1.08	32.558	22.809	3.23	-13.28	5.79	60	72.39	72.43
5940	47.04	-3.28	2.61	0.46	27.124	19.912	2.61	-15.78	5.89	30	70.81	71.61
5950	63.53	-1.97	5.08	2.93	40.735	22.797	5.08	-13.7	7.05	30	71.56	72.9
5960	55.93	-2.52	1.78	-0.37	31.795	24.137	1.78	-16.46	4.3	60	71.3	73.73
5970	65.51	-1.84	6.73	4.58	39.221	26.293	6.73	-14.47	8.56	30	73.57	73.74
5980	58.95	-2.3	2.18	0.03	32.29	26.659	2.18	-21.6	4.48	60	72.19	74.22

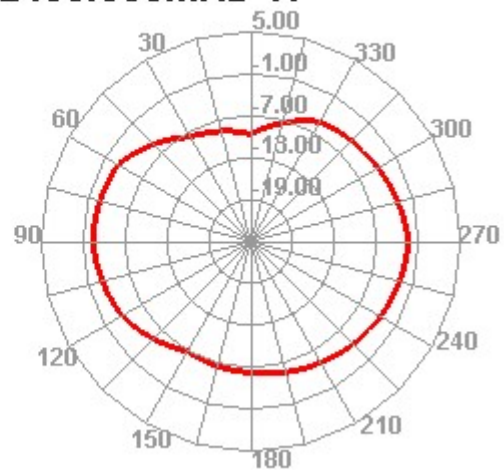


增益与效率

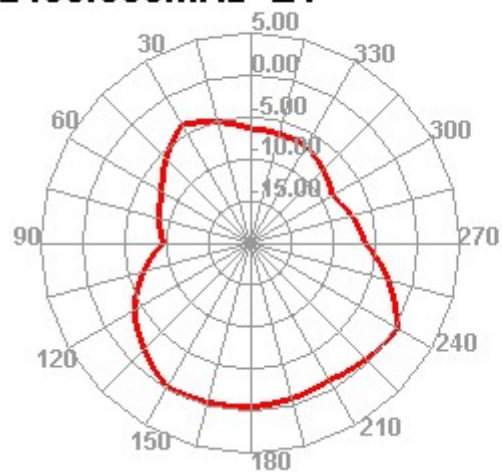
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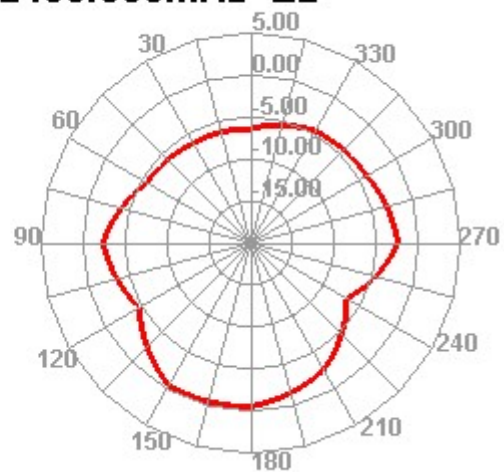
2400.000MHz H



2400.000MHz E1

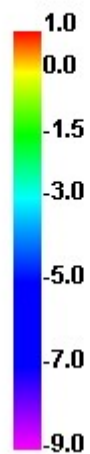
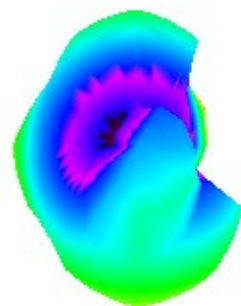


2400.000MHz E2

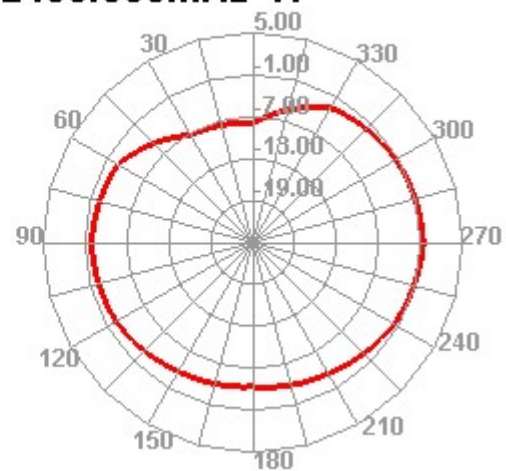


增益与效率

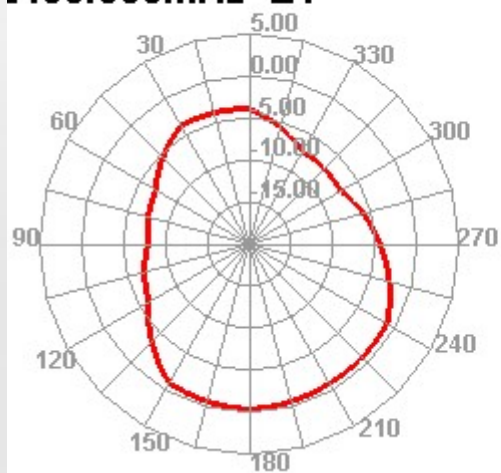
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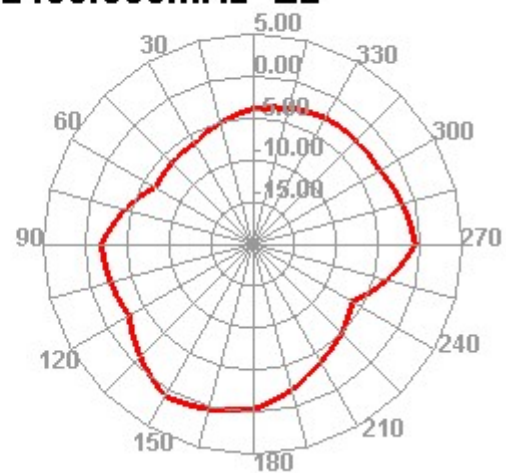
2450.000MHz H



2450.000MHz E1

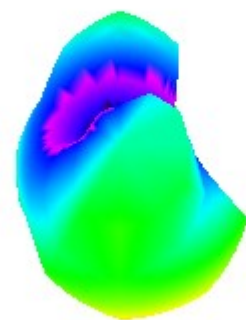


2450.000MHz E2

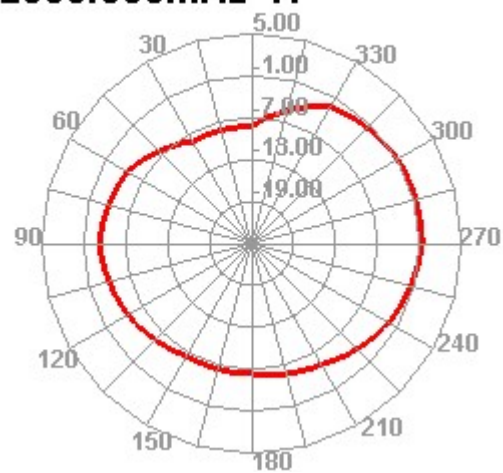


增益与效率

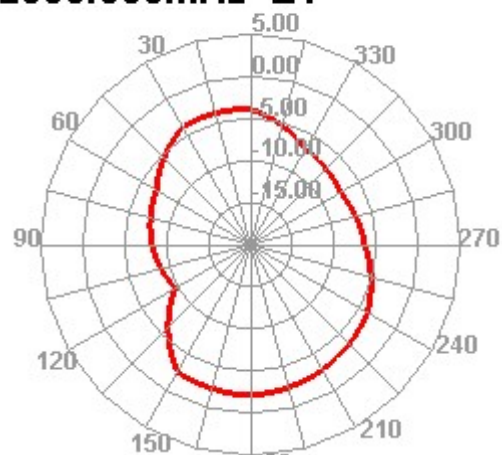
2500.000MHz



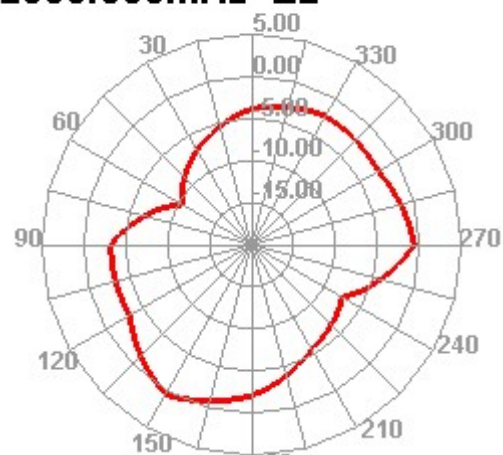
2500.000MHz H



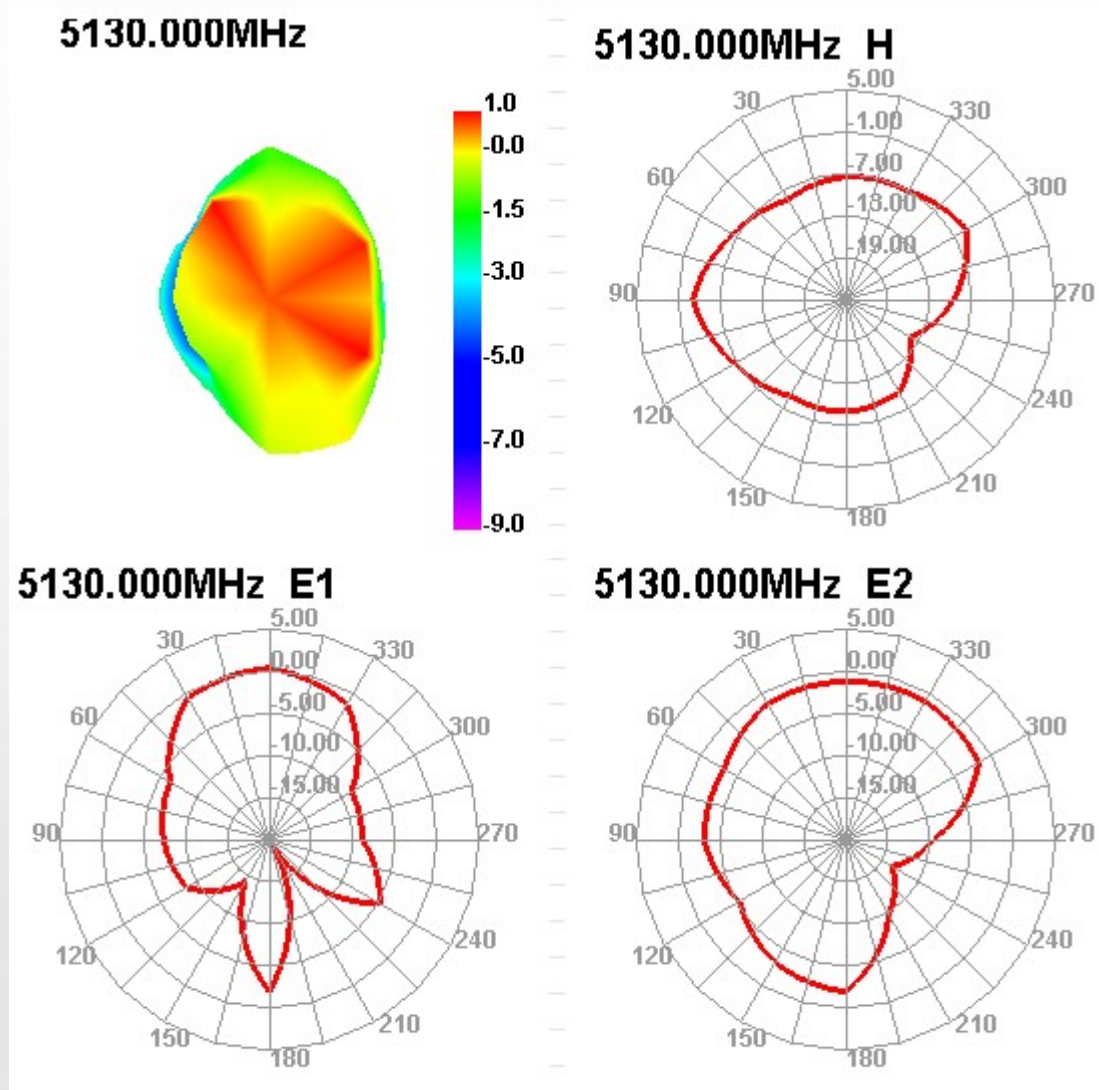
2500.000MHz E1



2500.000MHz E2

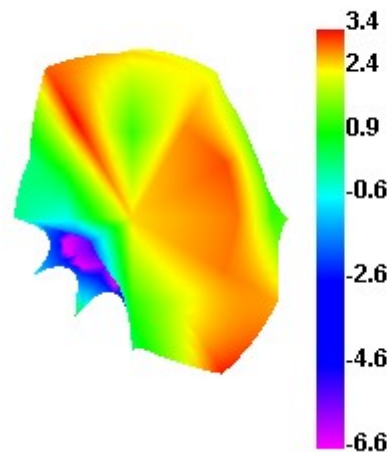


增益与效率

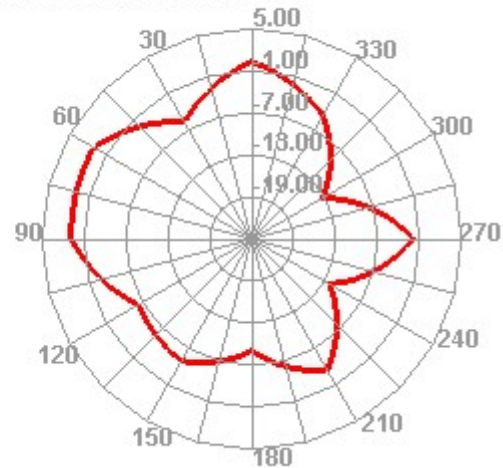


增益与效率

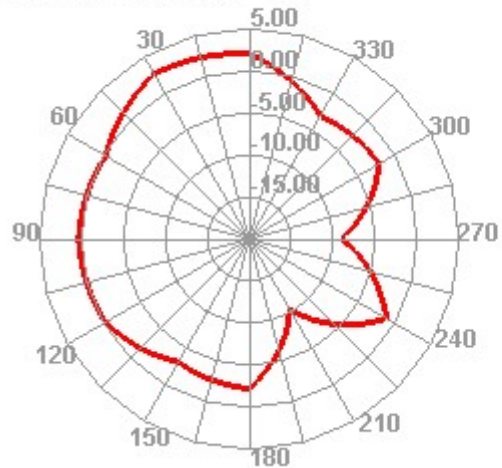
5500.000MHz



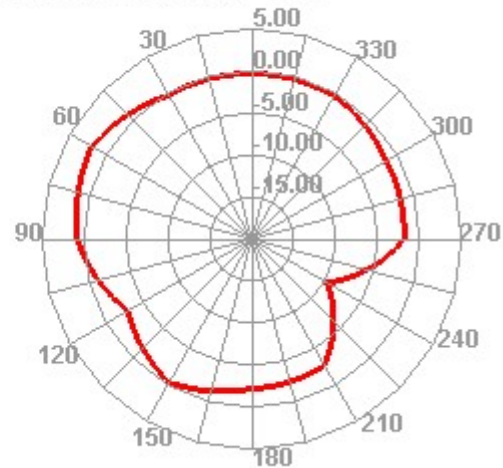
5500.000MHz H



5500.000MHz E1

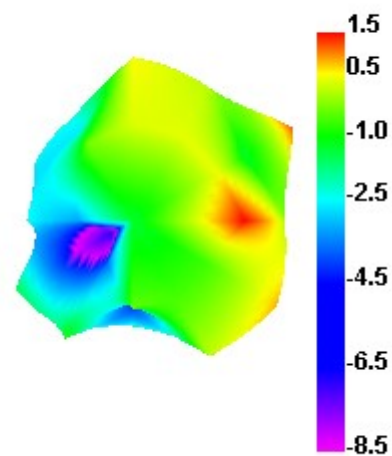


5500.000MHz E2

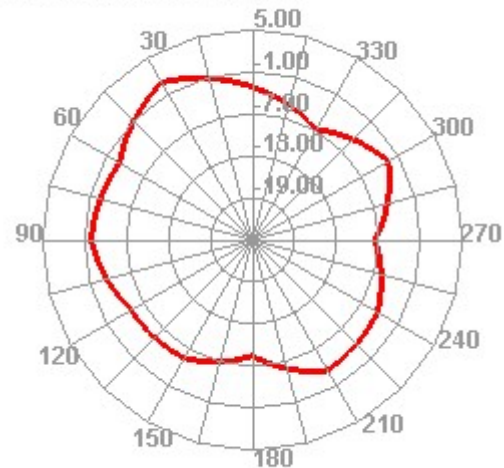


增益与效率

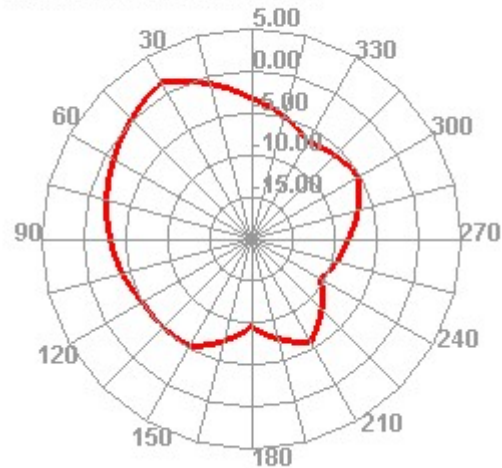
5870.000MHz



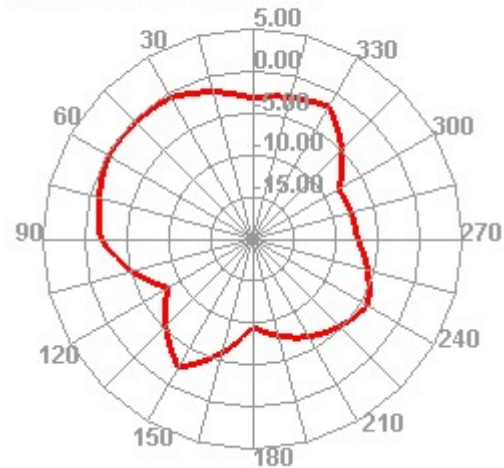
5870.000MHz H



5870.000MHz E1



5870.000MHz E2





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Thanks !

