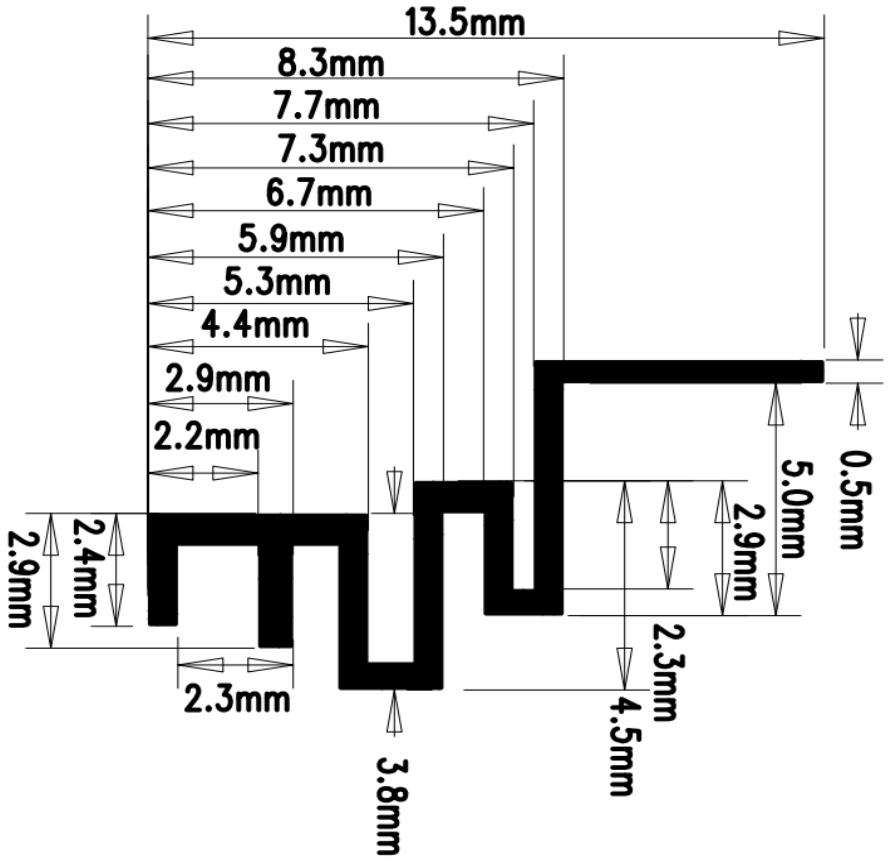
PCB Antenna Specification

Summary

ITEM	ANT SPEC
Model Name	5 G ANT
MAX. Gain	-2.46
Polarization	Horizontal and Vertical
Azimuth Beam Pattern	Omni-directional
Manufacture	Dongguan Yigaoxin Electronic Technology Co., Ltd.
Address	Room 908, Building 2, No. 8 Shixia Road, Dalang Town, Dongguan City

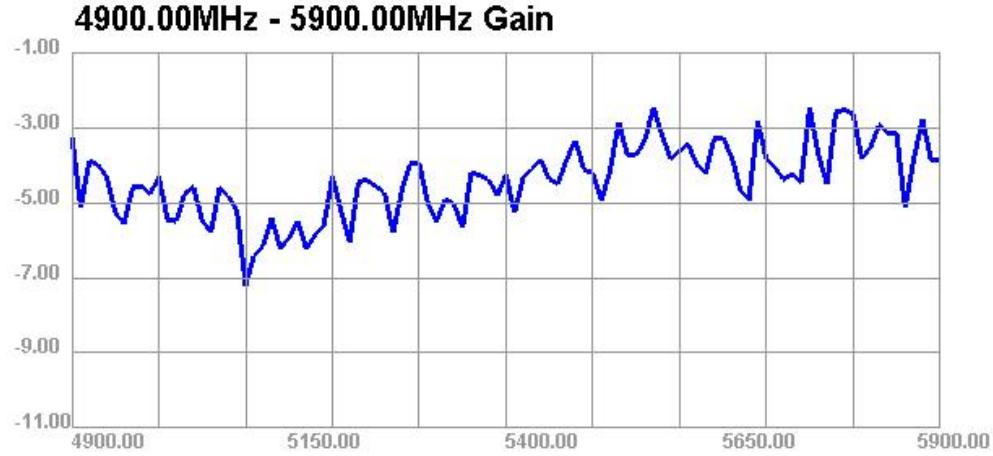
Antenna Photo & Length (mm)

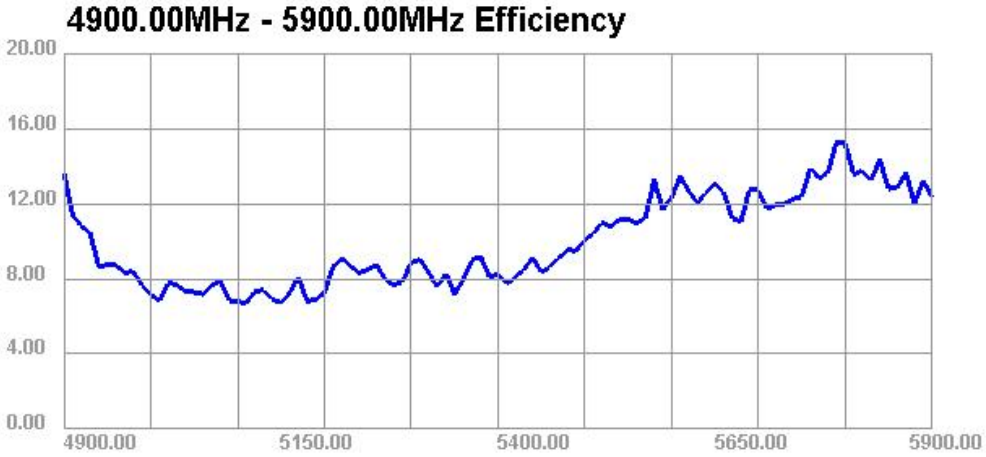


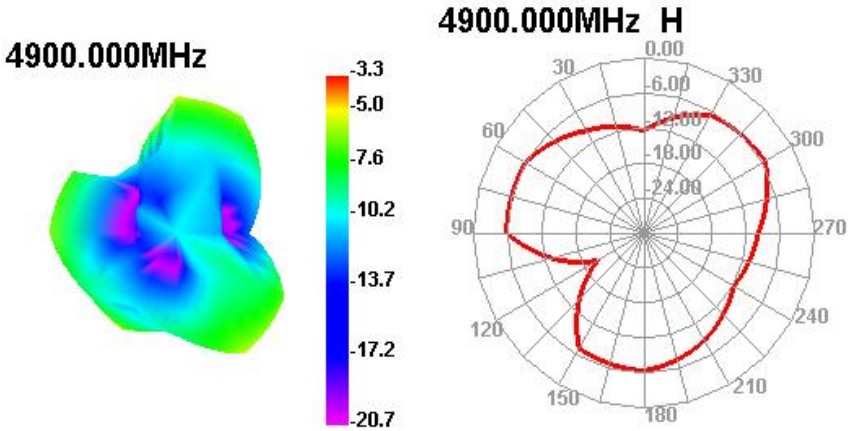
Test result

Passive Test For 5G-5.8G										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
4900	13.6	-8.66	-3.27	-5.42	4.825	8.774	-3.27	-20.66	62.35	62.09
4910	11.39	-9.44	-5.12	-7.27	4.129	7.258	-5.12	-20.55	62.35	61.57
4920	10.81	-9.66	-3.88	-6.03	3.431	7.376	-3.88	-22.61	62.16	61.35
4930	10.46	-9.81	-3.98	-6.13	2.865	7.593	-3.98	-24.66	62.17	61.2
4940	8.63	-10.64	-4.33	-6.48	2.594	6.037	-4.33	-24.44	61.78	61.41
4950	8.77	-10.57	-5.26	-7.41	2.816	5.958	-5.26	-26.71	62.02	61.59
4960	8.71	-10.6	-5.57	-7.72	2.596	6.118	-5.57	-20.32	62.05	61.25
4970	8.33	-10.79	-4.58	-6.73	2.351	5.983	-4.58	-21.82	61.69	61.1
4980	8.39	-10.76	-4.57	-6.72	2.296	6.099	-4.57	-21.74	61.76	60.85
4990	7.61	-11.18	-4.76	-6.91	1.949	5.664	-4.76	-22.92	61.84	60.73
5000	7.16	-11.45	-4.31	-6.46	1.894	5.27	-4.31	-27.11	61.78	60.89
5010	6.85	-11.64	-5.46	-7.61	1.893	4.957	-5.46	-24.47	61.88	61.18
5020	7.79	-11.08	-5.49	-7.64	2.27	5.523	-5.49	-25.73	62.32	61.32
5030	7.67	-11.15	-4.75	-6.9	2.073	5.599	-4.75	-23.95	62.13	61.47
5040	7.33	-11.35	-4.58	-6.73	2.014	5.312	-4.58	-23.42	62.25	61.45
5050	7.3	-11.37	-5.49	-7.64	1.992	5.304	-5.49	-29.31	62.26	61.36
5060	7.2	-11.43	-5.77	-7.92	2.118	5.078	-5.77	-32.49	62.12	61.26
5070	7.65	-11.16	-4.6	-6.75	2.226	5.421	-4.6	-27.12	62.09	61.09
5080	7.89	-11.03	-4.82	-6.97	2.305	5.584	-4.82	-20.76	62.1	61.08
5090	6.86	-11.64	-5.22	-7.37	1.793	5.069	-5.22	-22.94	61.85	60.86
5100	6.78	-11.69	-7.21	-9.36	1.854	4.922	-7.21	-22.11	61.83	61
5110	6.72	-11.72	-6.38	-8.53	2.006	4.716	-6.38	-23.32	62.06	60.94
5120	7.35	-11.33	-6.16	-8.31	2.367	4.987	-6.16	-22.42	61.93	60.99
5130	7.4	-11.31	-5.41	-7.56	2.227	5.177	-5.41	-24.08	62.24	60.93
5140	6.92	-11.6	-6.21	-8.36	2.077	4.847	-6.21	-27.08	61.95	61.04
5150	6.73	-11.72	-5.95	-8.1	2.069	4.661	-5.95	-27.77	62.28	61.26
5160	7.26	-11.39	-5.5	-7.65	2.168	5.091	-5.5	-21.7	62.6	61.72
5170	8.1	-10.92	-6.24	-8.39	2.216	5.879	-6.24	-23.52	62.98	61.73
5180	6.8	-11.67	-5.86	-8.01	1.777	5.028	-5.86	-22.99	62.8	62.2
5190	6.91	-11.6	-5.61	-7.76	1.82	5.091	-5.61	-24.28	62.93	61.88
5200	7.26	-11.39	-4.3	-6.45	2.333	4.929	-4.3	-21.25	62.8	61.9
5210	8.66	-10.63	-5.21	-7.36	2.709	5.949	-5.21	-23.96	62.83	62.1
5220	9.1	-10.41	-6.04	-8.19	2.833	6.263	-6.04	-29.01	63.07	61.8
5230	8.68	-10.62	-4.43	-6.58	2.543	6.132	-4.43	-26.33	62.85	61.95
5240	8.32	-10.8	-4.39	-6.54	2.613	5.705	-4.39	-18.69	62.93	62.14
5250	8.48	-10.72	-4.55	-6.7	2.366	6.109	-4.55	-27.47	62.96	62.39
5260	8.77	-10.57	-4.73	-6.88	2.463	6.308	-4.73	-25.89	63.16	62.2
5270	7.98	-10.98	-5.8	-7.95	2.268	5.709	-5.8	-29.32	62.96	62.25
5280	7.67	-11.15	-4.67	-6.82	1.962	5.704	-4.67	-24.14	63.09	62.03
5290	7.86	-11.05	-3.94	-6.09	2.519	5.341	-3.94	-24.51	63.05	62.26
5300	8.85	-10.53	-3.94	-6.09	2.399	6.453	-3.94	-25.39	62.8	62.04
5310	9.04	-10.44	-5	-7.15	2.517	6.526	-5	-23.83	62.66	61.87
5320	8.34	-10.79	-5.49	-7.64	2.404	5.932	-5.49	-21.52	62.68	61.48
5330	7.6	-11.19	-4.89	-7.04	2.283	5.317	-4.89	-23.49	62.62	61.69
5340	8.29	-10.82	-5.04	-7.19	2.438	5.848	-5.04	-23.68	62.88	62.07
5350	7.19	-11.43	-5.65	-7.8	1.873	5.316	-5.65	-25.66	63.35	62.04
5360	7.94	-11	-4.21	-6.36	2.216	5.726	-4.21	-22.15	62.76	62.26
5370	8.99	-10.46	-4.26	-6.41	2.548	6.441	-4.26	-23.85	63.23	61.88
5380	9.2	-10.36	-4.38	-6.53	2.753	6.451	-4.38	-22.14	62.87	62.03
5390	8.13	-10.9	-4.81	-6.96	2.445	5.686	-4.81	-21.64	62.98	62.15
5400	8.23	-10.85	-4.26	-6.41	2.317	5.909	-4.26	-24.84	63.21	62.18
5410	7.72	-11.12	-5.26	-7.41	1.872	5.851	-5.26	-29.27	63.41	62.29
5420	8.09	-10.92	-4.32	-6.47	2.205	5.886	-4.32	-23.5	63.59	62.93
5430	8.51	-10.7	-4.08	-6.23	2.549	5.958	-4.08	-21.57	64.07	63.17
5440	9.15	-10.39	-3.86	-6.01	2.592	6.553	-3.86	-22.75	64.59	63.32

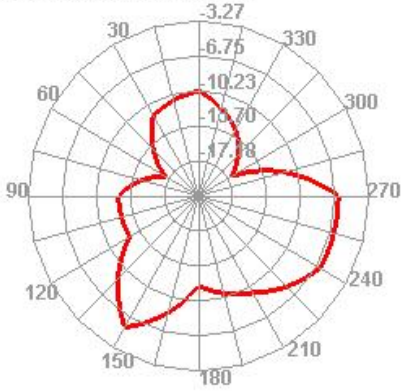
5450	8.36	-10.78	-4.38	-6.53	2.357	6.002	-4.38	-22.66	64.06	63.28
5460	8.63	-10.64	-4.49	-6.64	2.622	6.006	-4.49	-26.74	64.45	63.35
5470	9.11	-10.41	-3.85	-6	2.757	6.352	-3.85	-22.41	64.48	63.02
5480	9.54	-10.2	-3.34	-5.49	2.835	6.706	-3.34	-19.47	64.17	63.1
5490	9.5	-10.22	-4.13	-6.28	2.761	6.74	-4.13	-23.29	64.19	63.1
5500	10.06	-9.97	-4.2	-6.35	2.988	7.072	-4.2	-21.51	64.32	63.01
5510	10.43	-9.82	-4.94	-7.09	3.076	7.352	-4.94	-19.75	64.58	63.4
5520	10.99	-9.59	-4.15	-6.3	3.377	7.613	-4.15	-24.12	64.85	63.55
5530	10.81	-9.66	-2.85	-5	3.271	7.534	-2.85	-20.09	64.91	63.82
5540	11.15	-9.53	-3.74	-5.89	3.466	7.688	-3.74	-23.85	65.13	63.83
5550	11.19	-9.51	-3.74	-5.89	3.405	7.79	-3.74	-18.57	65.06	63.95
5560	10.98	-9.6	-3.33	-5.48	3.162	7.813	-3.33	-18.85	65.39	64.05
5570	11.26	-9.49	-2.46	-4.61	3.657	7.6	-2.46	-17.51	65.53	64.19
5580	13.27	-8.77	-3.21	-5.36	4.267	9.008	-3.21	-18.89	65.83	64.61
5590	11.68	-9.33	-3.84	-5.99	3.574	8.107	-3.84	-22.07	65.62	65.01
5600	12.35	-9.08	-3.61	-5.76	3.955	8.393	-3.61	-18.68	65.91	65.06
5610	13.46	-8.71	-3.44	-5.59	4.354	9.109	-3.44	-19.25	66.04	64.8
5620	12.66	-8.98	-3.99	-6.14	4.192	8.469	-3.99	-20.05	65.96	65.09
5630	12.05	-9.19	-4.2	-6.35	3.893	8.157	-4.2	-18.59	65.93	65.25
5640	12.61	-8.99	-3.28	-5.43	4.262	8.347	-3.28	-18.24	65.84	65.55
5650	13.06	-8.84	-3.27	-5.42	4.12	8.943	-3.27	-19.46	65.59	65.05
5660	12.6	-9	-3.76	-5.91	3.86	8.737	-3.76	-19.92	65.72	65.11
5670	11.21	-9.5	-4.64	-6.79	3.938	7.272	-4.64	-23.49	65.89	65.18
5680	11.05	-9.57	-4.93	-7.08	3.431	7.615	-4.93	-19.73	65.84	65.12
5690	12.78	-8.93	-2.84	-4.99	4.236	8.545	-2.84	-23.11	65.61	65.38
5700	12.72	-8.95	-3.81	-5.96	4.067	8.655	-3.81	-19.23	65.3	64.92
5710	11.73	-9.31	-4.07	-6.22	4.214	7.519	-4.07	-20.46	65.09	65.05
5720	11.93	-9.23	-4.38	-6.53	4.126	7.807	-4.38	-19.78	65.45	64.69
5730	12.01	-9.21	-4.23	-6.38	4.254	7.752	-4.23	-17.56	65.41	64.69
5740	12.25	-9.12	-4.44	-6.59	4.309	7.942	-4.44	-17.84	65.33	64.27
5750	12.37	-9.08	-2.48	-4.63	4.34	8.032	-2.48	-20.36	65.19	64.75
5760	13.91	-8.57	-3.72	-5.87	4.704	9.204	-3.72	-20.51	65.73	65.34
5770	13.36	-8.74	-4.51	-6.66	4.531	8.834	-4.51	-19.83	65.76	65.26
5780	13.65	-8.65	-2.58	-4.73	4.712	8.938	-2.58	-23.12	65.58	65.17
5790	15.25	-8.17	-2.52	-4.67	5.358	9.892	-2.52	-16.35	65.93	65.33
5800	15.23	-8.17	-2.65	-4.8	5.017	10.218	-2.65	-18.22	65.79	65.14
5810	13.57	-8.67	-3.81	-5.96	4.66	8.912	-3.81	-20.07	65.79	65.12
5820	13.76	-8.61	-3.53	-5.68	4.699	9.059	-3.53	-21.6	65.7	65.18
5830	13.25	-8.78	-2.92	-5.07	4.585	8.667	-2.92	-19.89	65.71	64.96
5840	14.37	-8.42	-3.13	-5.28	5.159	9.215	-3.13	-17.24	65.99	65.11
5850	12.8	-8.93	-3.13	-5.28	4.022	8.782	-3.13	-21.99	65.83	65.21
5860	12.85	-8.91	-5.13	-7.28	4.665	8.181	-5.13	-21.09	66.1	65.32
5870	13.65	-8.65	-3.83	-5.98	4.799	8.85	-3.83	-22.62	66.37	65.43
5880	12.01	-9.21	-2.76	-4.91	4.28	7.728	-2.76	-29.78	66.22	65.42
5890	13.24	-8.78	-3.88	-6.03	4.579	8.664	-3.88	-19.81	66.39	65.43
5900	12.36	-9.08	-3.87	-6.02	4.487	7.872	-3.87	-25.15	66.01	65.4


4900.00MHz - 5900.00MHz Gain
-1.00
-3.00
-5.00
-7.00
-9.00
-11.00
4900.00
5150.00
5400.00
5650.00
5900.00


4900.00MHz - 5900.00MHz Efficiency
20.00
16.00
12.00
8.00
4.00
0.00
4900.00
5150.00
5400.00
5650.00
5900.00


4900.000MHz
-3.3
-5.0
-7.6
-10.2
-13.7
-17.2
-20.7
4900.000MHz H
0.00
30
330
60
300
90
270
120
240
150
210
180

4900.000MHz E1



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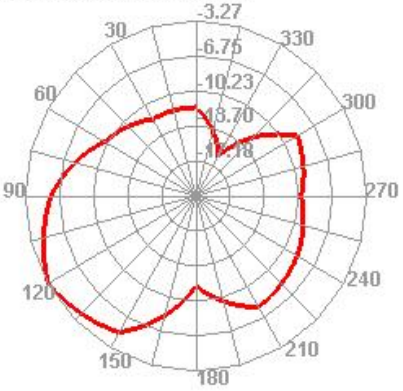
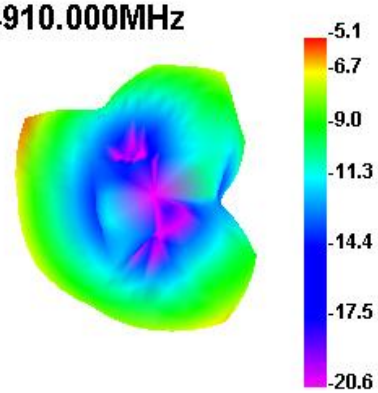
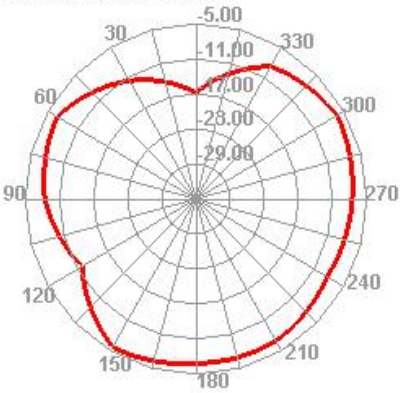


4910.000MHz



4910.000MHz H



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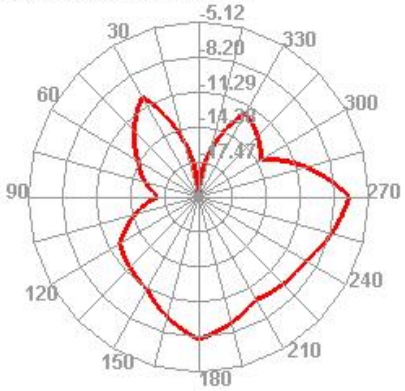

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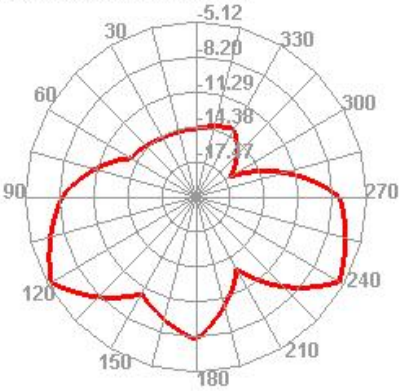

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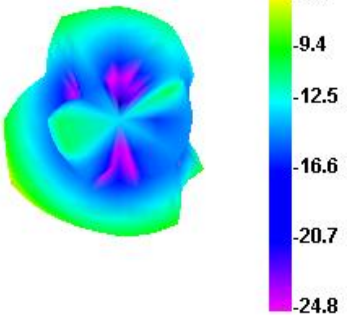

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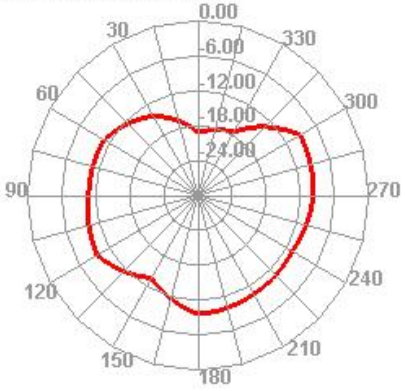

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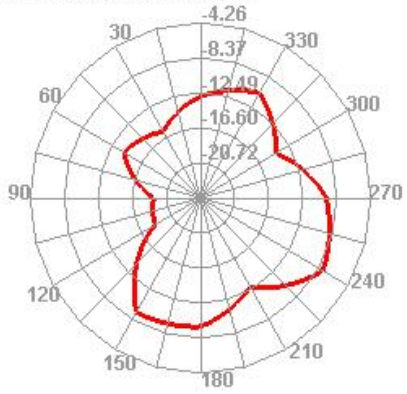

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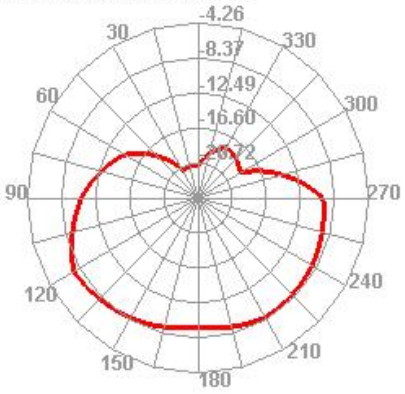

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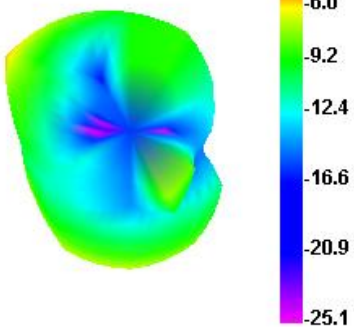

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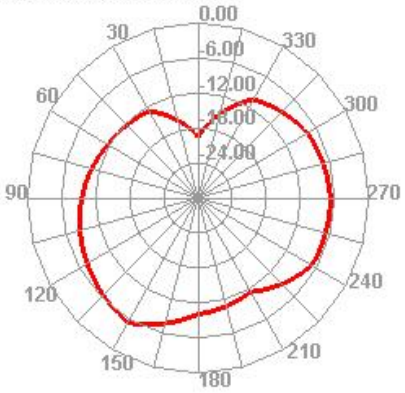

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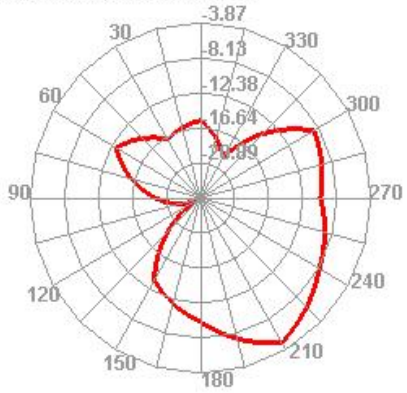

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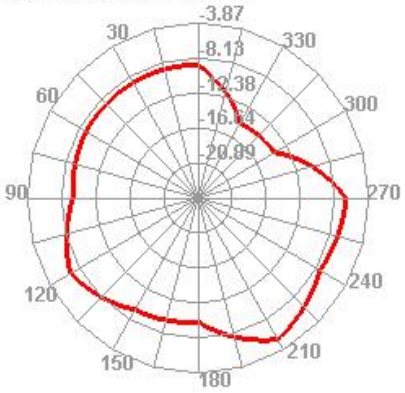
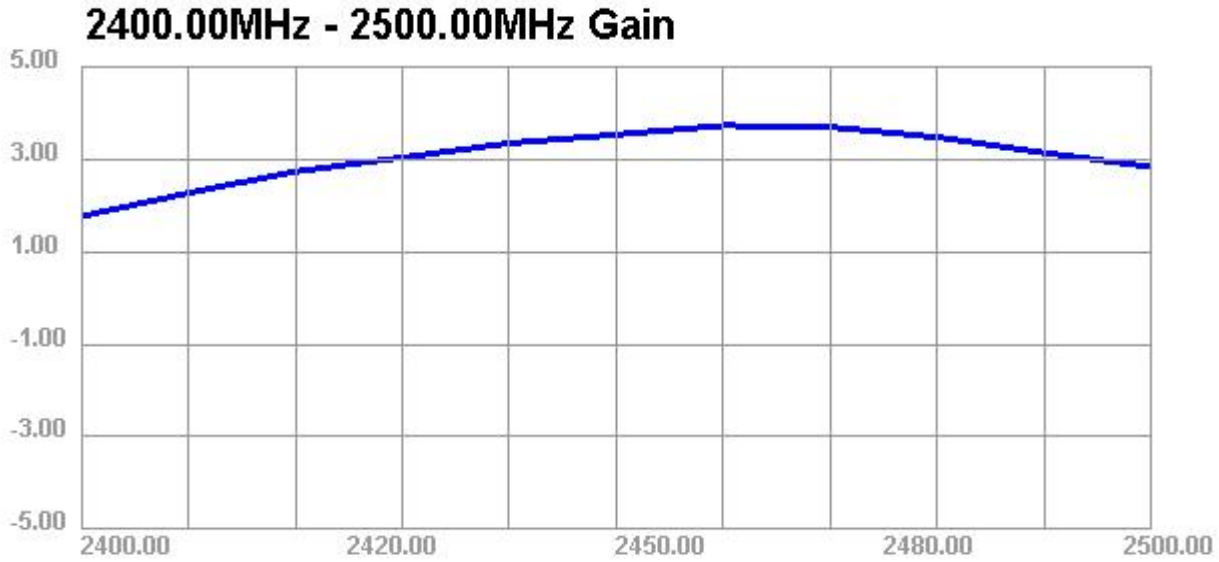
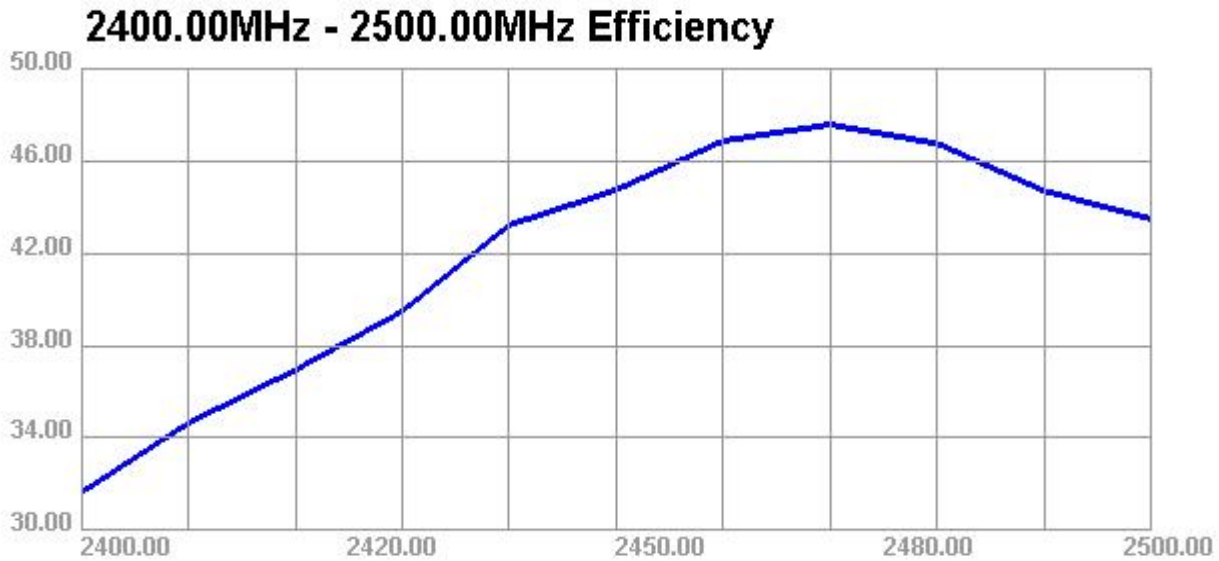
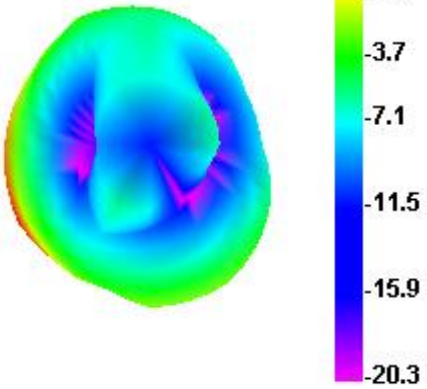


Passive Test For 2.4g								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHIS (%)	DHIS (%)	Max (dB)	Min (dB)
2400	31.64	-5	1.77	-0.38	8.551	23.091	1.77	-20.28
2410	34.65	-4.6	2.27	0.12	9.064	25.583	2.27	-19.81
2420	36.95	-4.32	2.73	0.58	9.274	27.673	2.73	-17.98
2430	39.49	-4.04	3.03	0.88	9.545	29.943	3.03	-17.04
2440	43.23	-3.64	3.35	1.2	10.105	33.121	3.35	-16.69
2450	44.74	-3.49	3.53	1.38	10.418	34.323	3.53	-17.17
2460	46.87	-3.29	3.73	1.58	10.705	36.169	3.73	-16.96
2470	47.57	-3.23	3.69	1.54	11.1	36.471	3.69	-16.68
2480	46.75	-3.3	3.47	1.32	10.941	35.813	3.47	-17.16
2490	44.7	-3.5	3.14	0.99	10.778	33.923	3.14	-15.48
2500	43.48	-3.62	2.83	0.68	10.792	32.692	2.83	-14.34

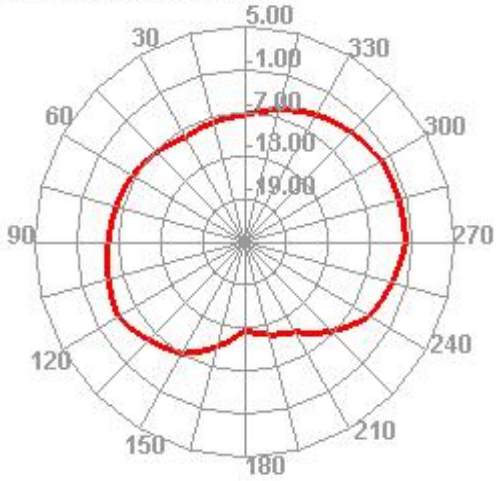




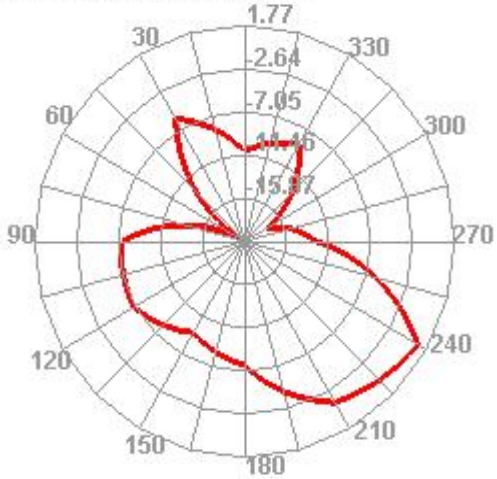
2400.000MHz



2400.000MHz H



2400.000MHz E1



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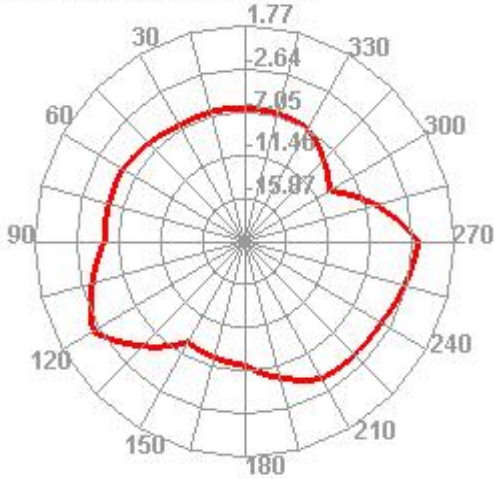
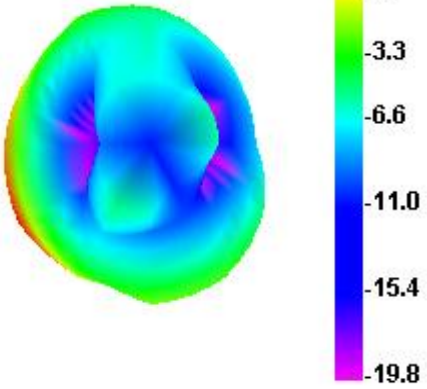


2410.000MHz



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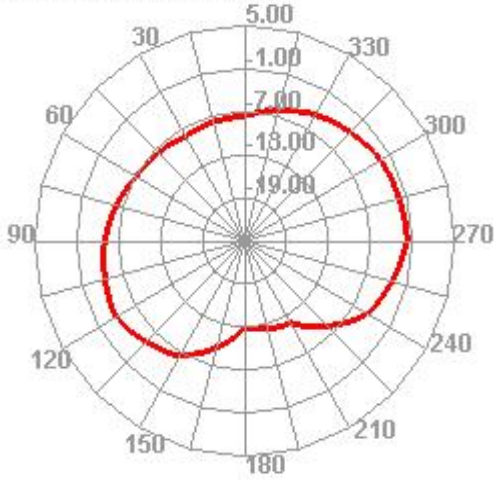

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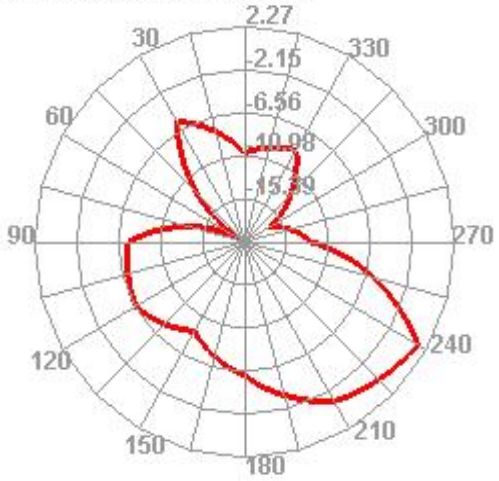

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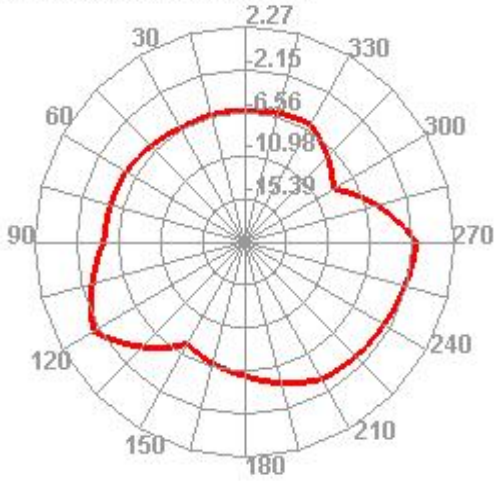

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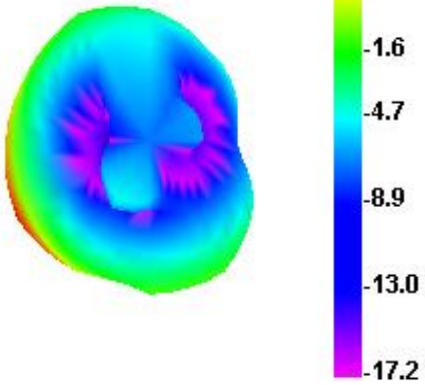

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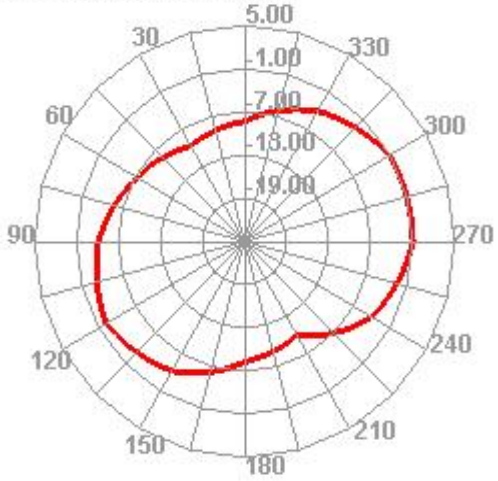

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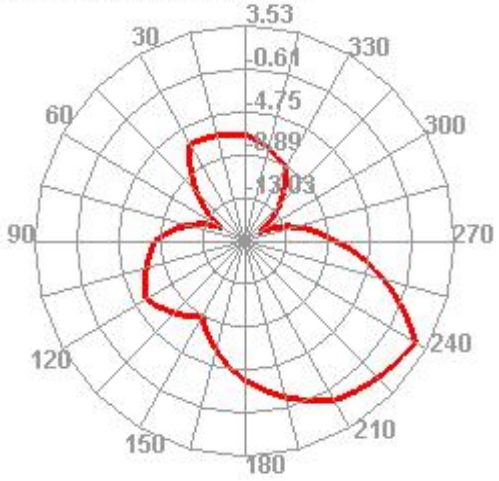

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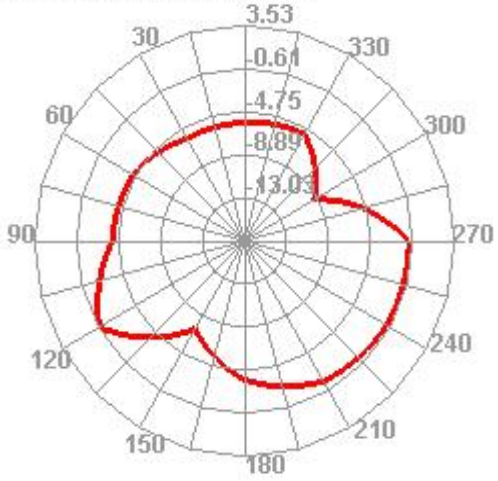
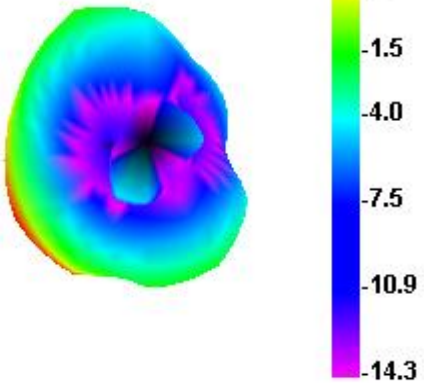


2500.000MHz



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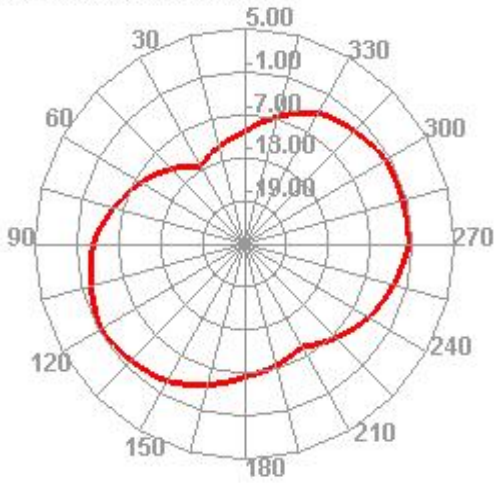

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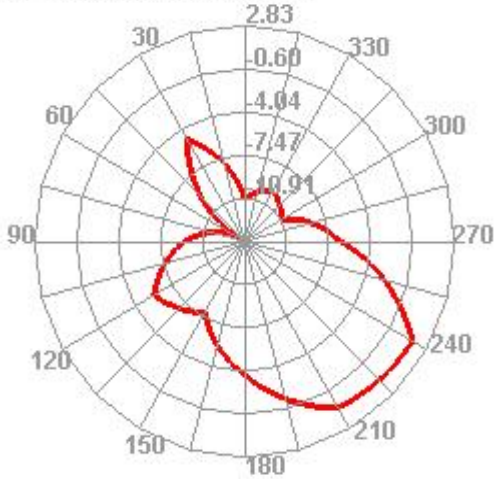

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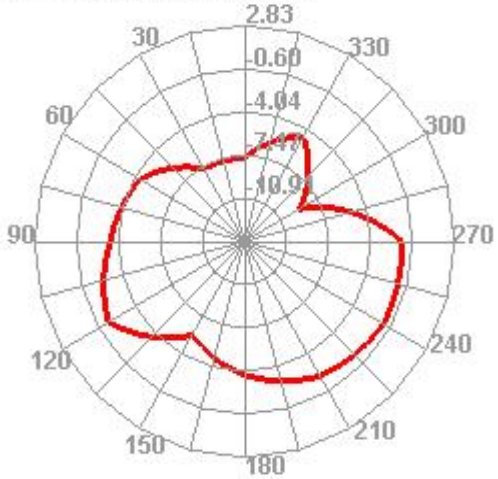

Attenut Hor	Attenut Ver
51.43	51.57
51.47	51.52
51.49	51.69
51.57	51.63
51.71	51.7
51.83	51.78
51.98	51.88
52	51.93
52	52.05
51.92	51.83
51.79	51.78

Application Information	
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TotalTime	3m 57s 410ms
AdditionalInfor	NULL