



深圳华讯视通科技有限公司

Shenzhen Huaxunshitong Technology Co.,Ltd.

XF4

天线测试报告

Antenna Test Report

2026-3-6





深圳华讯视通科技有限公司

Shenzhen Huaxunshitong Technology Co.,Ltd.

测试项目与设备 Test items and equipment

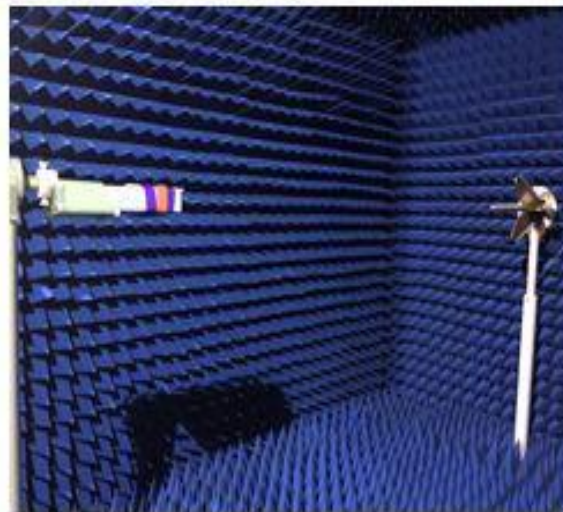
	测试项目Test items	设备Equipment
1. S参数 (S-parameter)	1. 回波损耗 (Return Loss) 2. 电压驻波比 (VSWR)	网络分析仪: Agilent E5071B HP 8753D
2. 有源测试 (Active)	1. 发射功率 (TRP) 2. 接收灵敏度 (TIS)	1. 暗室: ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2.综合测试仪: Agilent 8960 E5515B × 2 StarPoint SP6011
3.无源测试 (Passive)	1.天线增益 (Gain)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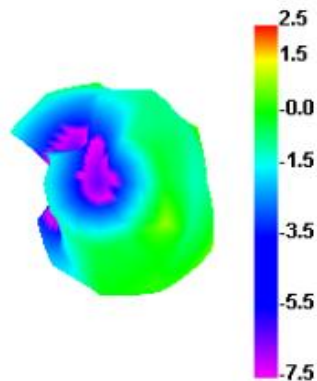


Passive Test For 2.4G												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Directivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2300	34.73	-4.59	2.49	0.34	12.023	22.709	2.49	-19.07	7.08	0	55.12	56.6
2310	32.18	-4.92	2.24	0.09	11.113	21.064	2.24	-19.55	7.17	0	54.91	56.5
2320	31.71	-4.99	2.44	0.29	10.784	20.93	2.44	-19.4	7.42	0	54.8	56.13
2330	35.23	-4.53	2.86	0.71	12.076	23.152	2.86	-17.3	7.39	0	55.05	56.33
2340	40.12	-3.97	2.91	0.76	14.04	26.081	2.91	-17.52	6.88	0	55.41	57.9
2350	35.97	-4.44	2.7	0.55	12.785	23.185	2.7	-17.44	7.14	0	55.72	57.75
2360	39.12	-4.08	3.1	0.95	14.053	25.068	3.1	-19.32	7.17	0	55.95	57.79
2370	39.45	-4.04	3.18	1.03	14.345	25.104	3.18	-19.73	7.22	0	55.79	57.25
2380	39.98	-3.98	3.08	0.93	14.458	25.521	3.08	-20.95	7.06	0	55.95	57.45
2390	40.1	-3.97	2.85	0.7	14.888	25.216	2.85	-20.01	6.82	0	55.8	57.98
2400	37.09	-4.31	2.46	0.31	13.937	23.157	2.46	-19.33	6.77	0	55.76	57.21
2410	46.22	-3.35	3.04	0.89	18.019	28.2	3.04	-20.07	6.39	0	55.83	58.53
2420	43.71	-3.59	2.94	0.79	17.262	26.446	2.94	-21.02	6.54	0	56.07	58.09
2430	43.7	-3.6	2.92	0.77	17.157	26.539	2.92	-22.39	6.52	0	56.25	58.05
2440	49.99	-3.01	3.23	1.08	19.6	30.387	3.23	-22.72	6.24	0	56.61	58.56
2450	53.26	-2.74	3.25	1.1	20.698	32.558	3.25	-21.97	5.99	0	56.87	58.64
2460	48.19	-3.17	2.77	0.62	18.656	29.53	2.77	-22.81	5.94	0	56.54	57.97
2470	47.67	-3.22	2.63	0.48	18.905	28.764	2.63	-20.78	5.85	0	56.17	58.01
2480	47.87	-3.2	2.64	0.49	19.201	28.666	2.64	-21.31	5.83	0	56.4	57.83
2490	51.25	-2.9	2.81	0.66	20.795	30.456	2.81	-19.7	5.72	0	56.48	57.83
2500	49.15	-3.09	2.49	0.34	19.912	29.235	2.49	-18.47	5.57	0	56.61	58.07
2510	48.08	-3.18	2.12	-0.03	19.89	28.191	2.12	-17.53	5.3	0	56.67	57.71
2520	47.55	-3.23	1.75	-0.4	19.642	27.904	1.75	-15.57	4.98	0	56.43	57.53
2530	46.88	-3.29	1.53	-0.62	19.379	27.5	1.53	-14.19	4.82	0	56.01	57.64
2540	40.79	-3.89	0.99	-1.16	16.714	24.075	0.99	-13.2	4.89	0	55.93	56.88
2550	40.98	-3.87	1.01	-1.14	16.584	24.392	1.01	-13.32	4.88	0	56.13	56.87
2560	44.69	-3.5	1.71	-0.44	17.665	27.029	1.71	-12.81	5.21	0	56.34	57.38
2570	48.7	-3.12	1.99	-0.16	18.933	29.767	1.99	-12.05	5.12	0	56.6	58.31
2580	36.33	-4.4	0.46	-1.69	13.915	22.411	0.46	-14.35	4.86	0	56.27	56.52
2590	36.99	-4.32	0.63	-1.52	13.864	23.13	0.63	-15.11	4.95	0	56.34	56.49
2600	37.08	-4.31	0.87	-1.28	13.566	23.513	0.87	-14.37	5.17	0	56.36	56.49

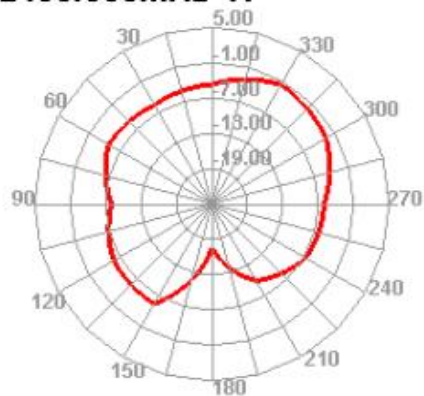


效率与增益Efficiency and Gain WiFi-2.4G

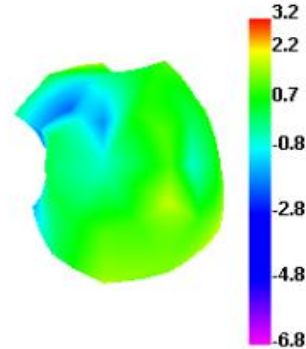
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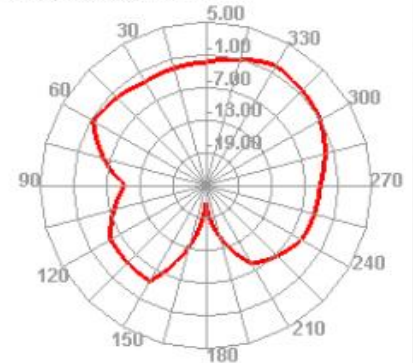
2400.000MHz H



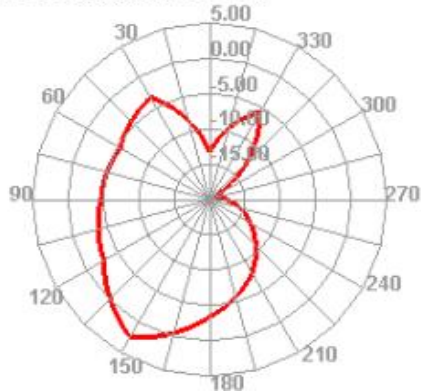
2450.000MHz



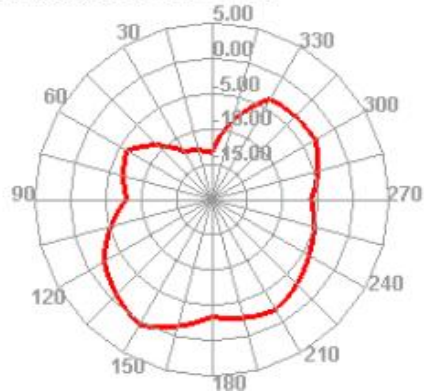
2450.000MHz H



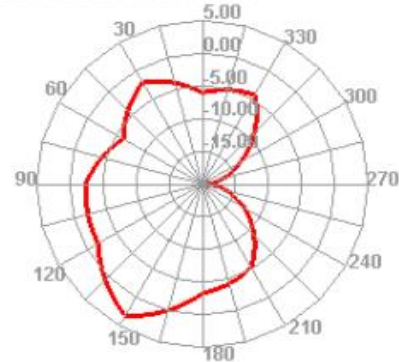
2400.000MHz E1



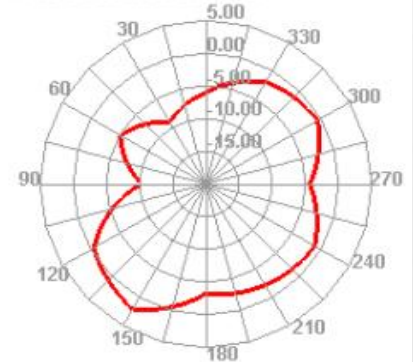
2400.000MHz E2



2450.000MHz E1



2450.000MHz E2



效率与增益Efficiency and Gain WiFi-5G

Passive Test For 5.8G-WIFI												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	irectivit (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
5000	9.35	-10.29	-4.73	-6.88	3.63	5.723	-4.73	-19.89	5.56	0	67.59	67.15
5010	8.86	-10.52	-5.4	-7.55	3.188	5.675	-5.4	-25.78	5.12	60	67.25	67.25
5020	7.82	-11.07	-5.45	-7.6	3.031	4.793	-5.45	-24.94	5.61	0	67.11	66.78
5030	11.45	-9.41	-3.67	-5.82	4.213	7.238	-3.67	-21.39	5.74	60	67.76	67.35
5040	10.22	-9.91	-4.83	-6.98	3.866	6.354	-4.83	-20.15	5.07	60	67.13	67.04
5050	8.25	-10.83	-4.09	-6.24	3.182	5.069	-4.09	-20.98	6.75	60	66.47	66.63
5060	9.64	-10.16	-4.42	-6.57	3.448	6.188	-4.42	-18.95	5.75	0	67.42	66.67
5070	10.68	-9.71	-4.8	-6.95	4.287	6.395	-4.8	-20.13	4.91	60	67.46	67.76
5080	12.8	-8.93	0.74	-1.41	4.261	8.534	0.74	-19.43	9.67	60	67.63	67.28
5090	7.32	-11.36	-3.13	-5.28	2.819	4.5	-3.13	-25.25	8.23	0	66.15	66.39
5100	6.88	-11.62	-5.74	-7.89	2.923	3.956	-5.74	-23.73	5.88	0	66.56	66.39
5110	7.93	-11	-5.4	-7.55	3.197	4.737	-5.4	-22.65	5.6	0	66.88	66.93
5120	9.45	-10.25	-4.68	-6.83	4.045	5.404	-4.68	-20.07	5.57	60	67.44	67.82
5130	8.05	-10.94	-3.92	-6.07	3.368	4.685	-3.92	-23.82	7.02	90	67	66.75
5140	7.15	-11.46	-5.43	-7.58	2.676	4.471	-5.43	-21.69	6.03	60	66.68	67
5150	8.18	-10.87	-4.75	-6.9	3.355	4.821	-4.75	-20.51	6.12	60	67.18	67.14
5160	9.26	-10.34	-3	-5.15	3.187	6.07	-3	-23.9	7.34	0	66.81	67.73
5170	7.07	-11.51	-2.48	-4.63	2.871	4.196	-2.48	-24.37	9.03	0	65.87	66.43
5180	6.44	-11.91	-5.4	-7.55	2.864	3.573	-5.4	-22.5	6.51	0	66.36	66.36
5190	6.88	-11.63	-3.6	-5.75	2.837	4.039	-3.6	-21.95	8.02	60	66.92	66.86
5200	9.99	-10	-3.58	-5.73	4.117	5.874	-3.58	-22.25	6.42	0	67.83	67.32
5210	7.94	-11	-2.02	-4.17	2.782	5.156	-2.02	-21.11	8.99	0	66.63	66.87
5220	5.22	-12.82	-5.61	-7.76	1.712	3.51	-5.61	-27.13	7.21	0	66.14	66.79
5230	6.84	-11.65	-6.99	-9.14	2.581	4.254	-6.99	-21.94	4.66	60	66.62	66.67
5240	8.5	-10.71	-3.35	-5.5	3.171	5.328	-3.35	-22.76	7.36	30	67.24	67.2
5250	8.72	-10.6	-4.17	-6.32	3.087	5.63	-4.17	-24.71	6.43	0	66.74	66.84
5260	7.12	-11.48	-4.88	-7.03	2.746	4.37	-4.88	-24.69	6.6	0	66.13	66.86



效率与增益Efficiency and Gain WiFi-5G

5270	8.93	-10.49	-3.94	-6.09	3.315	5.617	-3.94	-23.03	6.55	0	67.31	67.39
5280	9.31	-10.31	-4.5	-6.65	3.627	5.687	-4.5	-20.51	5.81	0	67.44	67.58
5290	10.72	-9.7	-1.96	-4.11	3.933	6.79	-1.96	-19.71	7.73	0	67.18	67.28
5300	8.97	-10.47	-4.28	-6.43	3.155	5.817	-4.28	-21.16	6.19	0	66.54	66.18
5310	9.4	-10.27	-3.53	-5.68	3.531	5.872	-3.53	-18.76	6.74	0	67.13	67.4
5320	12.51	-9.03	0.49	-1.66	4.279	8.231	0.49	-18.91	9.51	0	67.85	67.87
5330	14.88	-8.27	-0.69	-2.84	5.161	9.723	-0.69	-24.09	7.58	0	68.01	67.78
5340	12.12	-9.17	-2.17	-4.32	4.622	7.494	-2.17	-21.55	7	120	67.21	67.25
5350	12.41	-9.06	-1.9	-4.05	4.863	7.546	-1.9	-19.36	7.16	0	67.31	67.51
5360	17.27	-7.63	-0.8	-2.95	6.847	10.423	-0.8	-16.16	6.83	0	68.07	68.63
5370	15.34	-8.14	-1.2	-3.35	5.502	9.838	-1.2	-17.26	6.94	0	67.01	67.79
5380	13.94	-8.56	-1	-3.15	5.7	8.243	-1	-20.4	7.55	0	67.01	67.08
5390	15.26	-8.17	0.27	-1.88	5.489	9.769	0.27	-18.69	8.44	60	67.71	68.23
5400	17.39	-7.6	-2.02	-4.17	7.123	10.263	-2.02	-15.98	5.58	90	68.37	68.36
5410	17.81	-7.49	-1.65	-3.8	6.97	10.837	-1.65	-19.96	5.84	0	68.69	68.99
5420	14.07	-8.52	-2.58	-4.73	5.352	8.718	-2.58	-21.77	5.94	0	68.22	68.54
5430	13.15	-8.81	-2.77	-4.92	5.006	8.141	-2.77	-18.38	6.04	30	68.79	68.71
5440	18.63	-7.3	-0.44	-2.59	7.075	11.551	-0.44	-24.49	6.86	90	69.15	69.68
5450	22.42	-6.49	-0.81	-2.96	8.513	13.909	-0.81	-18.82	5.69	30	69.39	70.32
5460	19.13	-7.18	-1.51	-3.66	7.303	11.828	-1.51	-15.98	5.67	90	68.71	69.65
5470	22.88	-6.41	0.46	-1.69	8.125	14.754	0.46	-17.73	6.87	0	69.96	70.43
5480	24.83	-6.05	0.08	-2.07	11.345	13.483	0.08	-18.49	6.13	90	70.59	70.87
5490	35.5	-4.5	0.94	-1.21	14.097	21.405	0.94	-13.96	5.44	180	71.44	72.04
5500	33.3	-4.78	0.73	-1.42	13.403	19.895	0.73	-14.02	5.51	30	70.94	71.47
5510	31.79	-4.98	0.75	-1.4	11.129	20.66	0.75	-20.61	5.73	30	71.33	71.74
5520	37.5	-4.26	2.24	0.09	13.593	23.912	2.24	-21.16	6.5	90	71.27	72.5
5530	38.84	-4.11	1.74	-0.41	13.858	24.985	1.74	-23.29	5.85	150	71.35	72.23
5540	54.71	-2.62	7.07	4.92	17.665	37.047	7.07	-11.13	9.69	0	71.82	72.96
5550	41.3	-3.84	6.19	4.04	16.766	24.531	6.19	-18.91	10.04	0	71.36	72.61
5560	34.49	-4.62	0.79	-1.36	13.426	21.068	0.79	-22.94	5.41	0	71.89	72.61



效率与增益Efficiency and Gain WiFi-5G

5570	40.33	-3.94	1.93	-0.22	14.838	25.487	1.93	-20.32	5.87	0	71.6	72.72
5580	49.58	-3.05	4.18	2.03	18.174	31.407	4.18	-15.39	7.22	150	71.96	73.06
5590	48.62	-3.13	2.96	0.81	17.844	30.779	2.96	-11.79	6.09	60	71.65	72.87
5600	51.54	-2.88	3.35	1.2	17.909	33.634	3.35	-14.17	6.23	30	71.47	73.22
5610	47.28	-3.25	2.39	0.24	19.144	28.141	2.39	-15.65	5.65	0	71.96	72.93
5620	40.46	-3.93	2.2	0.05	13.618	26.838	2.2	-14.64	6.13	90	71.01	72.79
5630	37.5	-4.26	1.68	-0.47	14.185	23.317	1.68	-16.25	5.94	0	70.85	72.39
5640	33.81	-4.71	0.4	-1.75	12.615	21.197	0.4	-17.79	5.11	90	71.18	71.44
5650	45.98	-3.37	2.43	0.28	16.726	29.249	2.43	-14.3	5.8	0	71.79	72.29
5660	45.03	-3.47	2.38	0.23	15.174	29.854	2.38	-13.21	5.84	0	70.44	72.31
5670	44.58	-3.51	2.7	0.55	17.79	26.791	2.7	-16.74	6.21	90	70.08	72.1
5680	34.89	-4.57	1.02	-1.13	12.446	22.446	1.02	-22.44	5.6	60	70.33	71.36
5690	41.77	-3.79	2.26	0.11	14.873	26.896	2.26	-18.12	6.06	0	70.33	71.86
5700	35.17	-4.54	1.52	-0.63	11.898	23.271	1.52	-17.77	6.06	90	70.18	70.93
5710	32.91	-4.83	0.83	-1.32	11.398	21.512	0.83	-16.11	5.66	90	69.69	70.25
5720	36.51	-4.38	0.69	-1.46	12.943	23.563	0.69	-13.6	5.07	60	69.32	70.36
5730	35.9	-4.45	1.53	-0.62	12.949	22.947	1.53	-22.77	5.98	60	68.89	69.94
5740	39.92	-3.99	3.18	1.03	14.577	25.343	3.18	-15.29	7.17	90	69.81	70.54
5750	32.69	-4.86	1.58	-0.57	11.482	21.205	1.58	-17.6	6.44	90	69.58	70.68
5760	42.36	-3.73	3.99	1.84	13.324	29.04	3.99	-13.01	7.72	60	69.91	71.25
5770	28.32	-5.48	1.83	-0.32	9.686	18.633	1.83	-17.68	7.31	90	69.93	70.79
5780	32.05	-4.94	1.09	-1.06	10.916	21.139	1.09	-16.14	6.03	90	70.15	71.07
5790	34.16	-4.66	5.05	2.9	10.291	23.872	5.05	-15.81	9.71	0	69.67	70.57
5800	33.99	-4.69	1.6	-0.55	11.423	22.567	1.6	-18.53	6.29	60	70	71.21
5810	31.45	-5.02	0.68	-1.47	10.923	20.53	0.68	-20.04	5.71	0	69.83	71.13
5820	27.19	-5.66	-0.99	-3.14	9.575	17.616	-0.99	-17.59	4.66	90	70.29	71.5
5830	23.87	-6.22	-0.07	-2.22	8.813	15.058	-0.07	-20.62	6.15	60	70.64	70.74
5840	32.53	-4.88	2.14	-0.01	11.417	21.114	2.14	-19.8	7.01	0	70.75	72.13
5850	27.06	-5.68	0.31	-1.84	9.673	17.383	0.31	-17.37	5.98	60	70.78	70.75
5860	33.11	-4.8	1.81	-0.34	11.728	21.386	1.81	-17.9	6.61	90	71.11	71.73



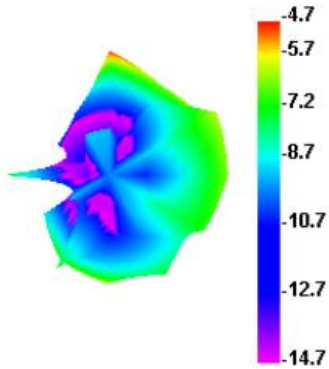
效率与增益Efficiency and Gain WiFi-5G

5870	35.92	-4.45	4.53	2.38	11.911	24.005	4.53	-21.95	8.98	60	70.79	71.9
5880	40.78	-3.9	2.35	0.2	14.122	26.657	2.35	-17.5	6.24	0	70.61	73.79
5890	32.34	-4.9	1.97	-0.18	11.218	21.125	1.97	-16.06	6.87	0	70.99	72.54
5900	30.7	-5.13	1.93	-0.22	10.242	20.455	1.93	-15.94	7.06	0	70.5	72.38
5910	31.77	-4.98	2.53	0.38	11.429	20.339	2.53	-14.48	7.51	0	71.07	72.21
5920	31.78	-4.98	1.65	-0.5	11.359	20.424	1.65	-15.4	6.63	0	70.67	72.55
5930	35.73	-4.47	3.53	1.38	13.339	22.394	3.53	-16.15	8	90	72.39	72.43
5940	27.38	-5.63	1.37	-0.78	10.766	16.613	1.37	-17.29	6.99	60	70.81	71.61
5950	34.49	-4.62	2.12	-0.03	12.951	21.542	2.12	-16.95	6.74	0	71.56	72.9
5960	32.88	-4.83	3.09	0.94	11.505	21.371	3.09	-20.02	7.92	30	71.3	73.73
5970	31.04	-5.08	1.16	-0.99	10.916	20.12	1.16	-18.31	6.25	0	73.57	73.74
5980	28.64	-5.43	1.81	-0.34	9.304	19.337	1.81	-22.05	7.24	0	72.19	74.22
5990	0	-78.84	-71.29	-73.44	0	0	-71.29	-93.56	7.55	30	0	0
6000	0	-78.88	-71.78	-73.93	0	0	-71.78	-94.87	7.1	0	0	0

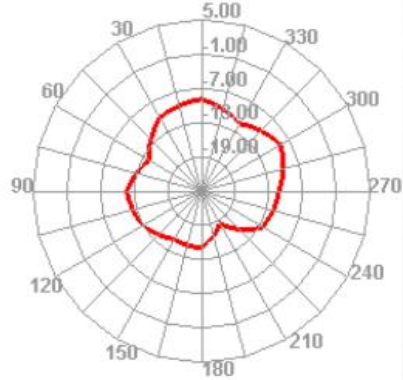


效率与增益 Efficiency and Gain WiFi-5G

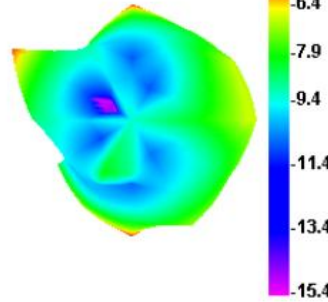
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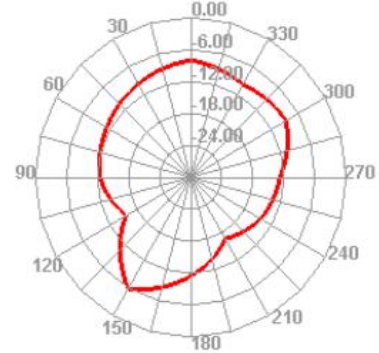
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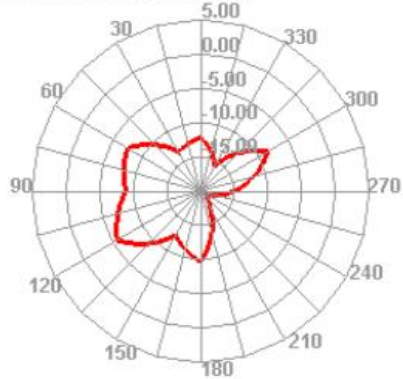
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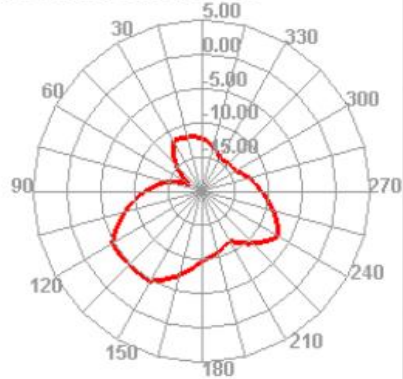
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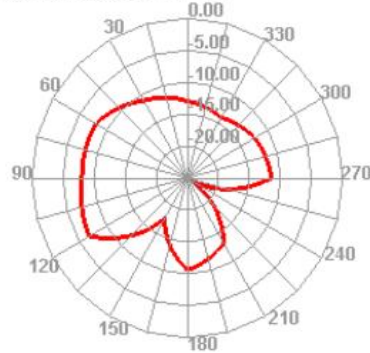
5000.000MHz E1



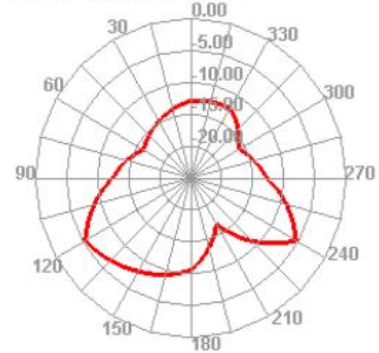
5000.000MHz E2



5010.000MHz E1

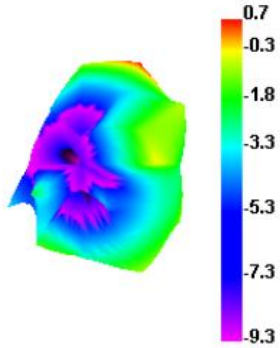


5010.000MHz E2

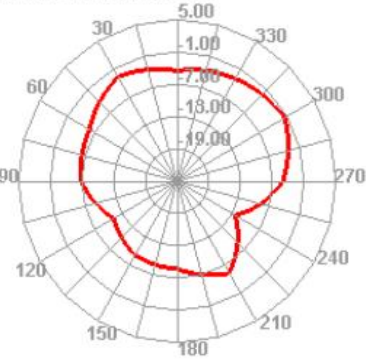


效率与增益 Efficiency and Gain WiFi-5G

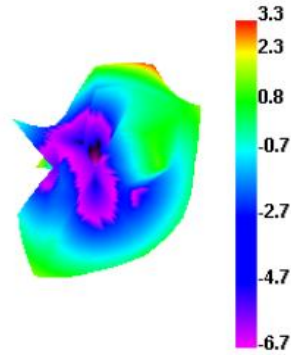
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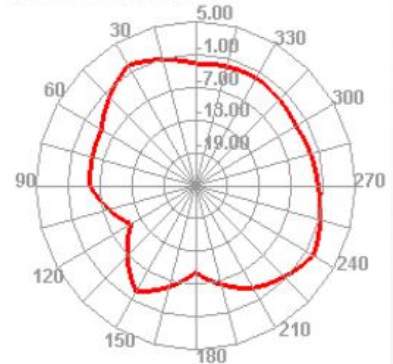
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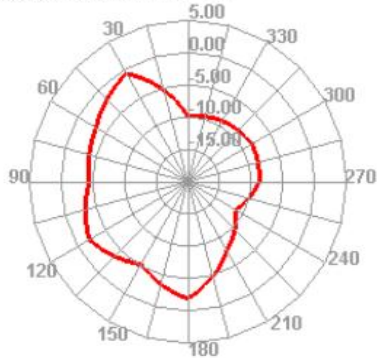
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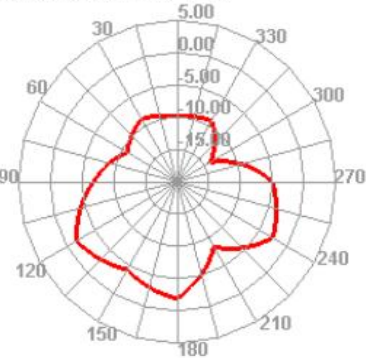
5600.000MHz H



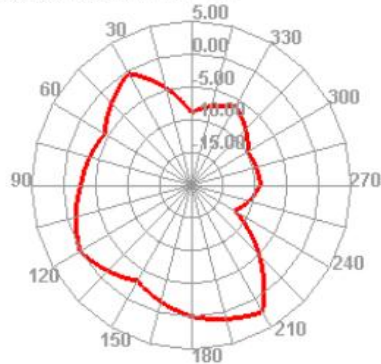
5500.000MHz E1



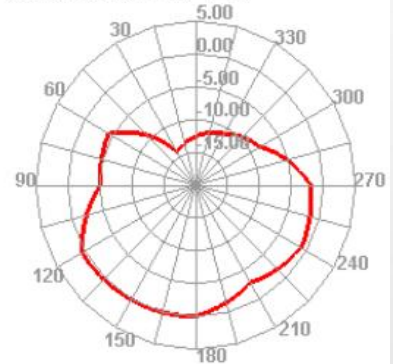
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5600.000MHz E1

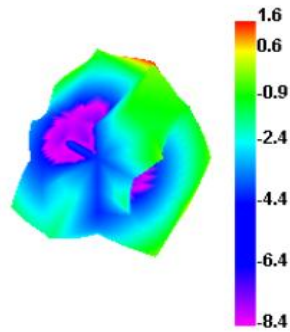


5600.000MHz E2

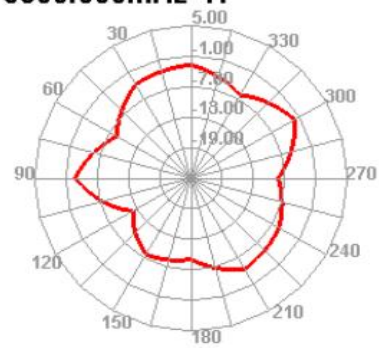


效率与增益 Efficiency and Gain WiFi-5G

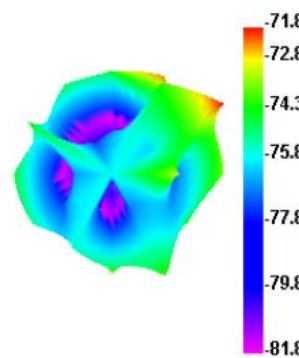
5800.000MHz



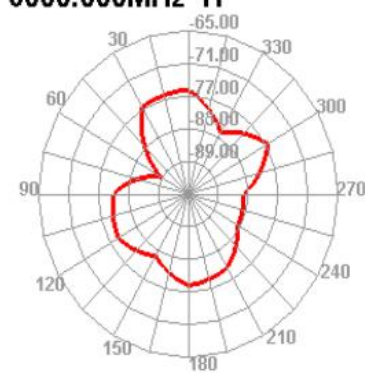
5800.000MHz H



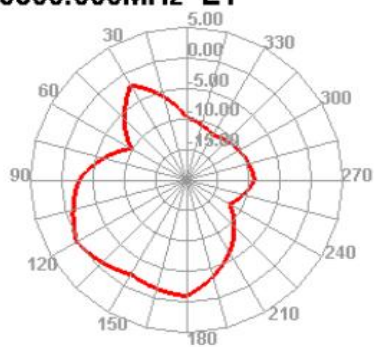
6000.000MHz



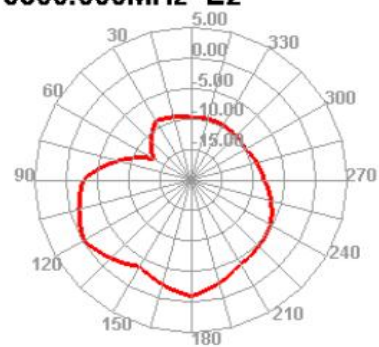
6000.000MHz H



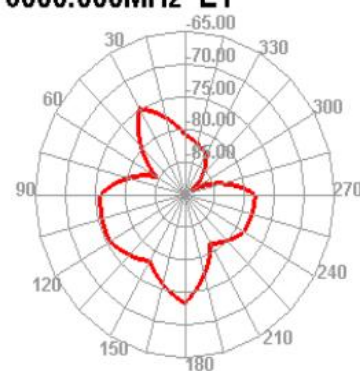
5800.000MHz E1



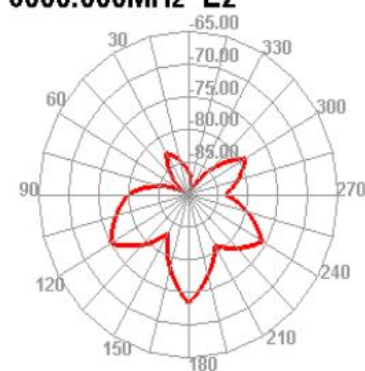
5800.000MHz E2



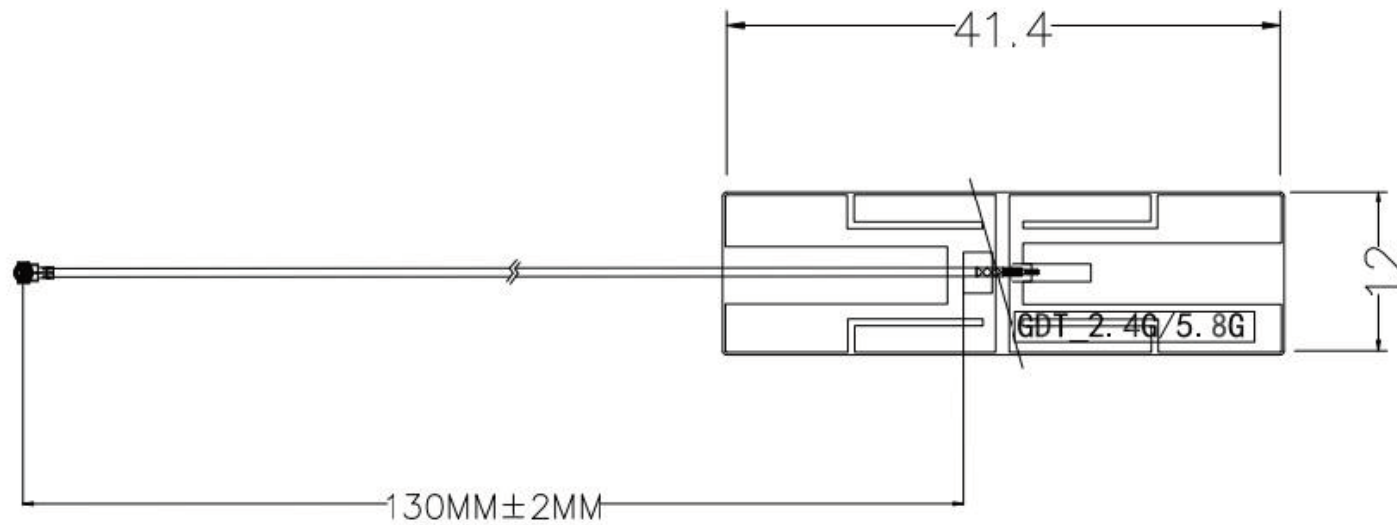
6000.000MHz E1



6000.000MHz E2



结构图纸Structural Drawings





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

Thanks !

