专业的RF研发机构

Professional RF research and Design organization

深圳市聆讯通通信技术有限公司

天线测试报告

Antenna test report

深圳研发中心实验室

Shenzhen Lab of Research & Design Center

Date: 2024-09-27

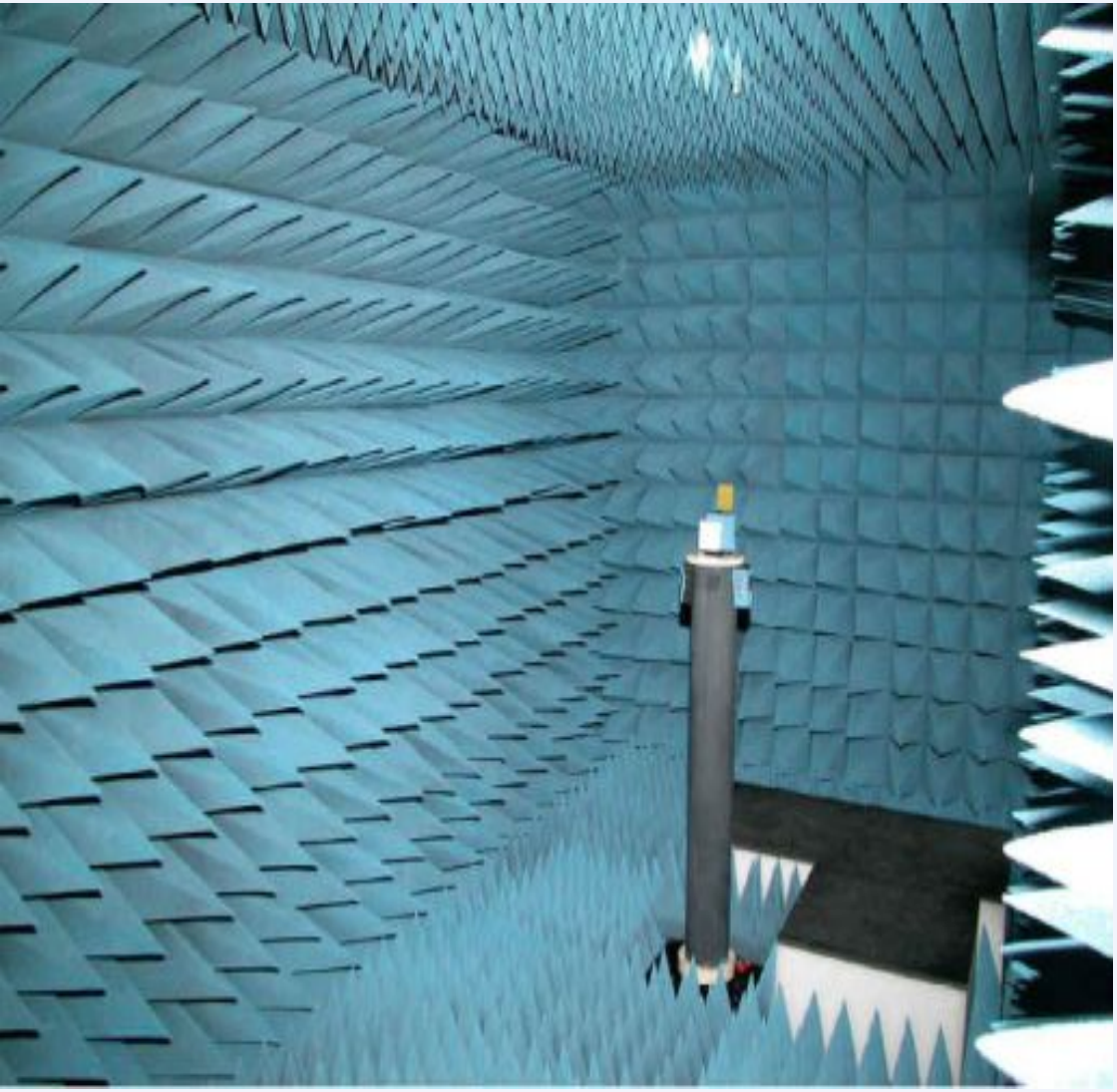
项目信息
Project information

1 客户:百家科技

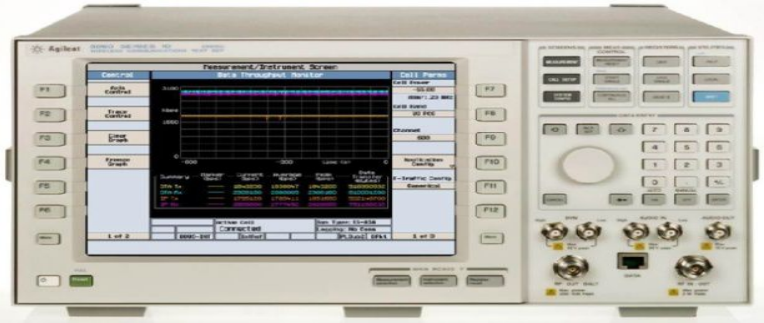
2 项目:X7C天线

3 备注：wifi天线

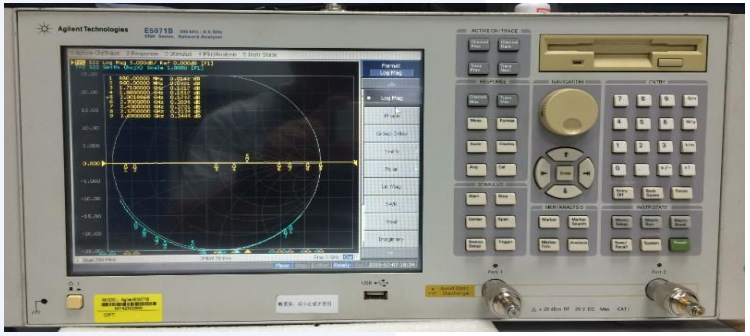
测试仪器与设备



R&S CMW500

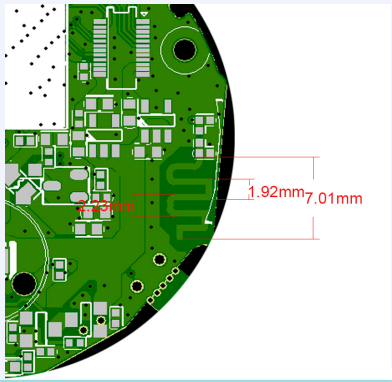


Agilent 8960

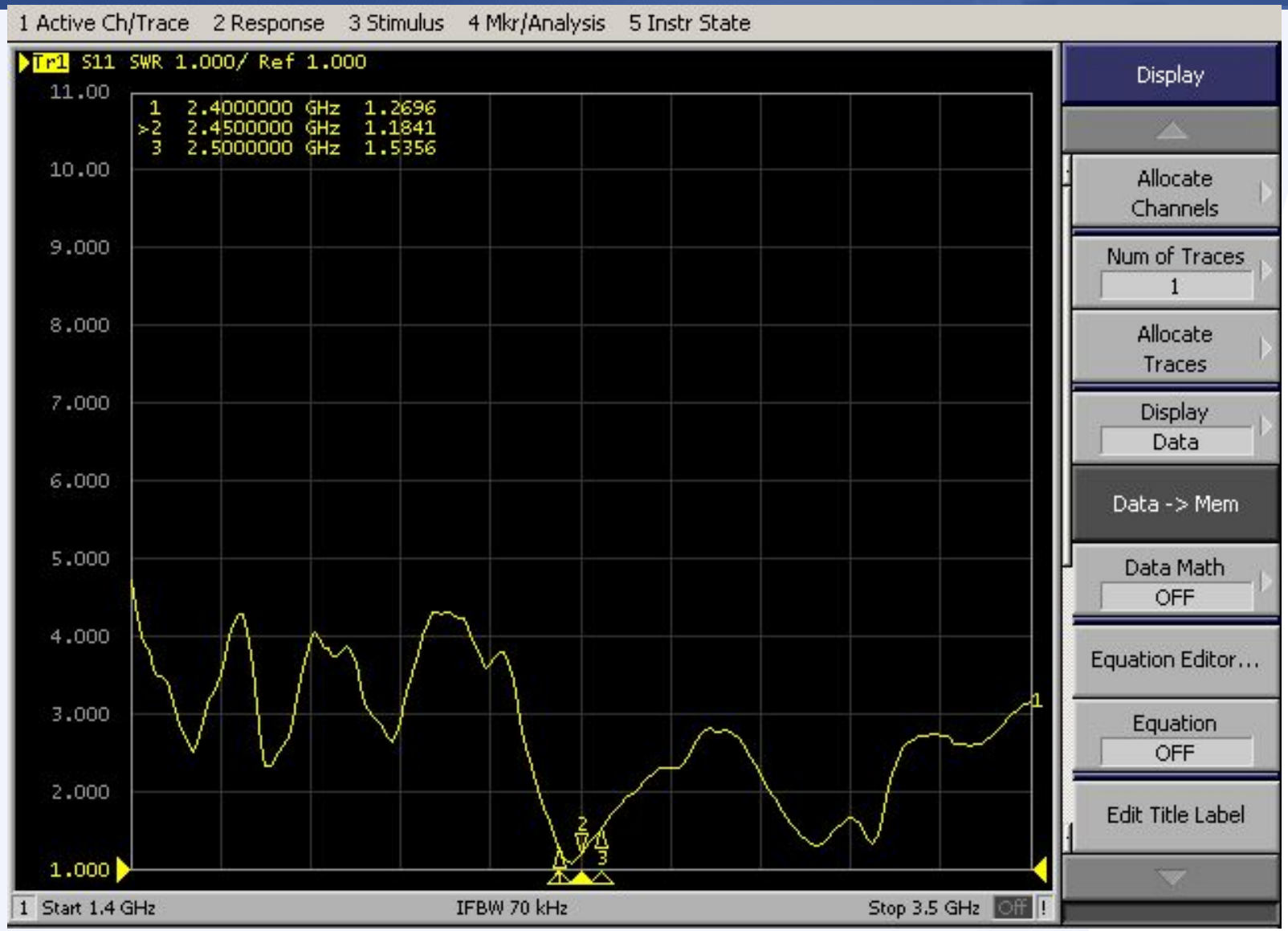


Agilent Technoiogies E5071B

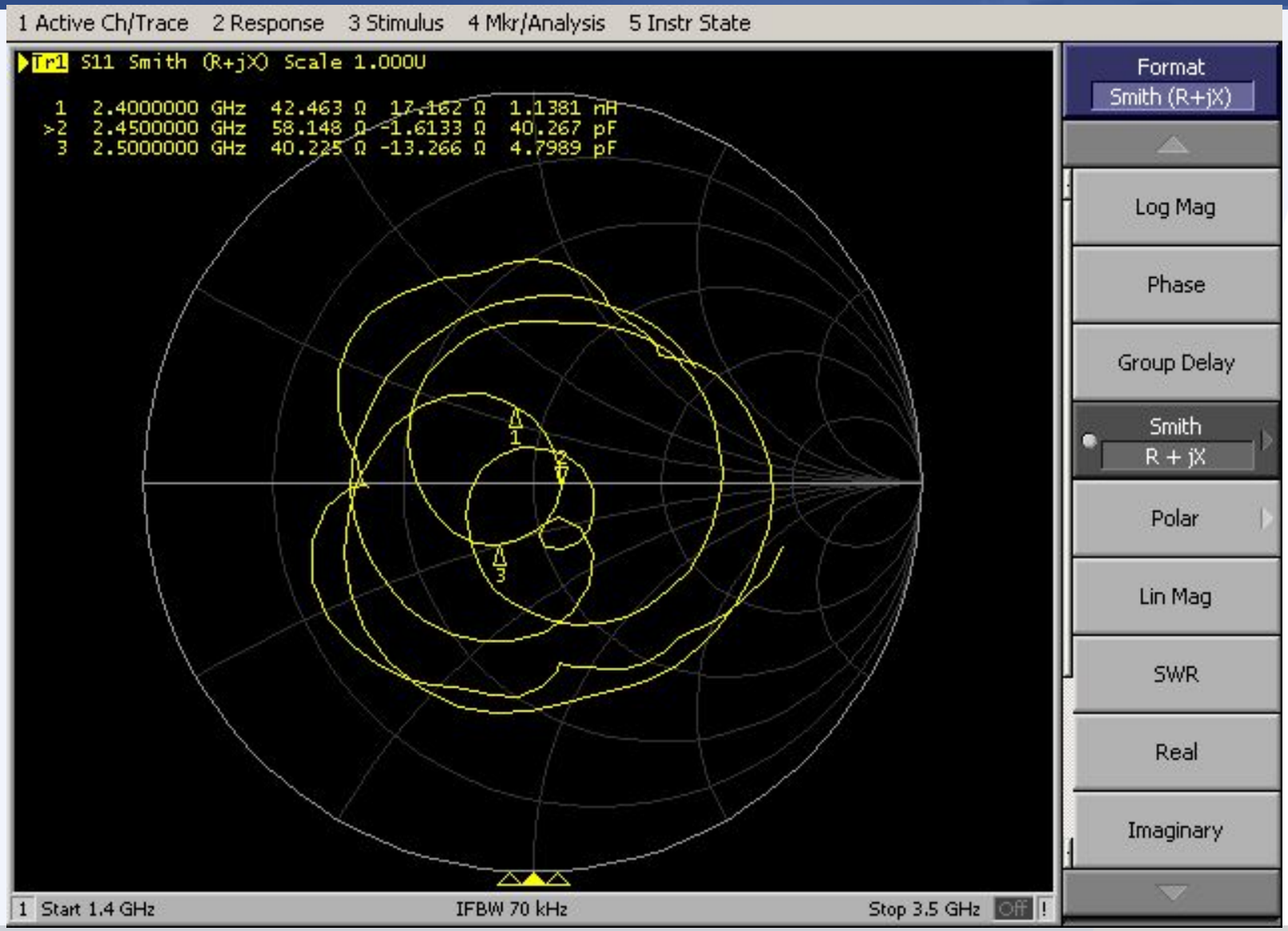
天线项目设计调试说明

工作频段	2400-2500MHz	测试工程师		版本	NCT-V1.1
整机图		天线匹配电路			
					
整机天线备注说明		匹配说明			
1.主天线:单极天线. 2.匹配电路没有更改。		E1	NC		
		E2	0Ω		
		E3	NC		

WIFI天线无源驻波图



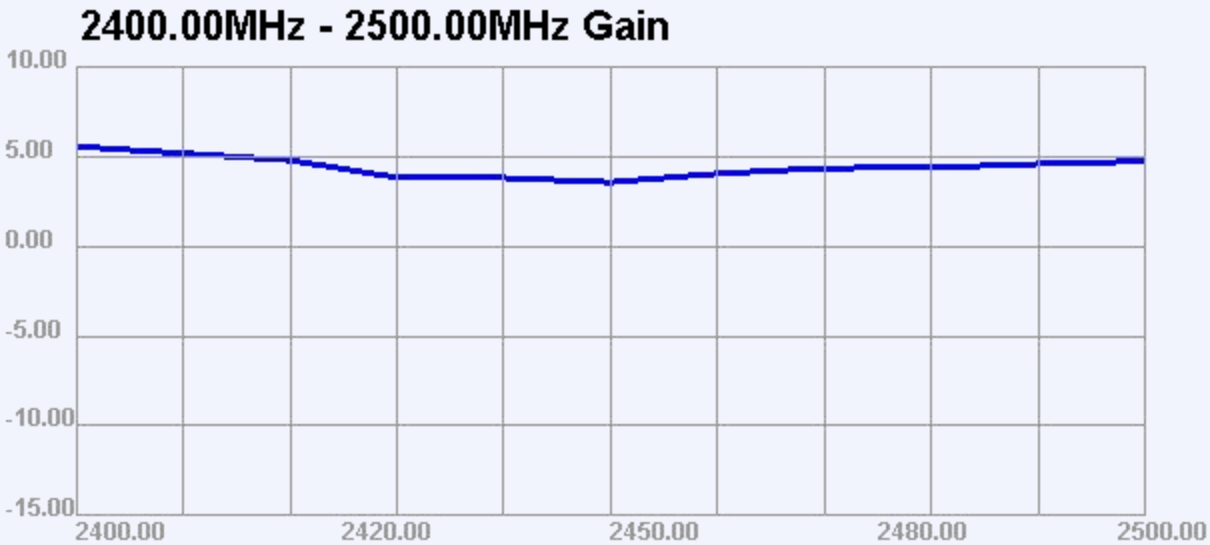
WIFI天线Smith图

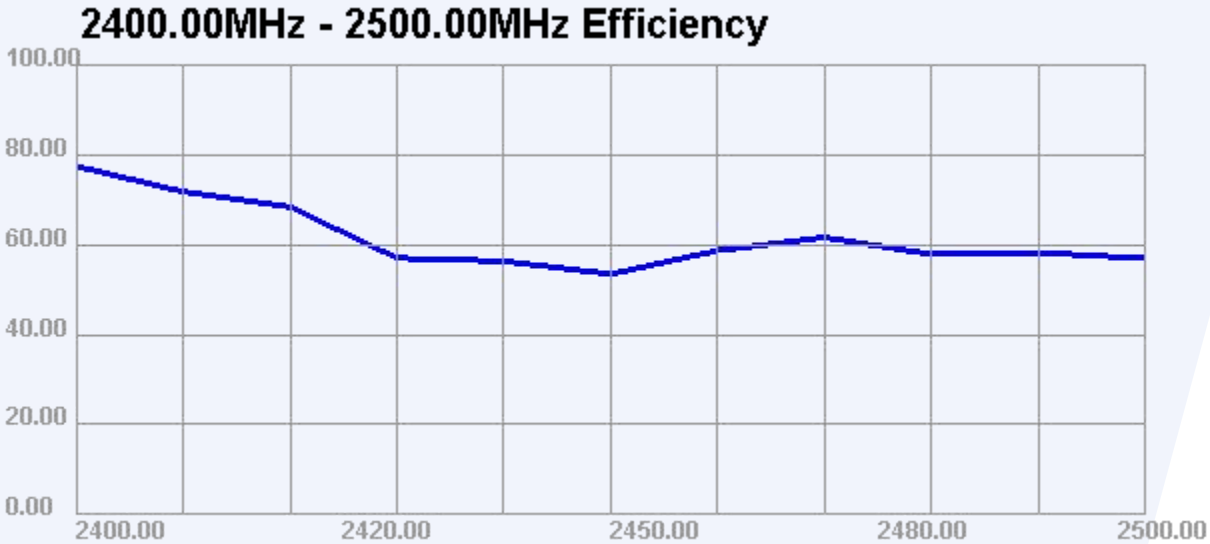


2.4G-2.5G天线效率与增益

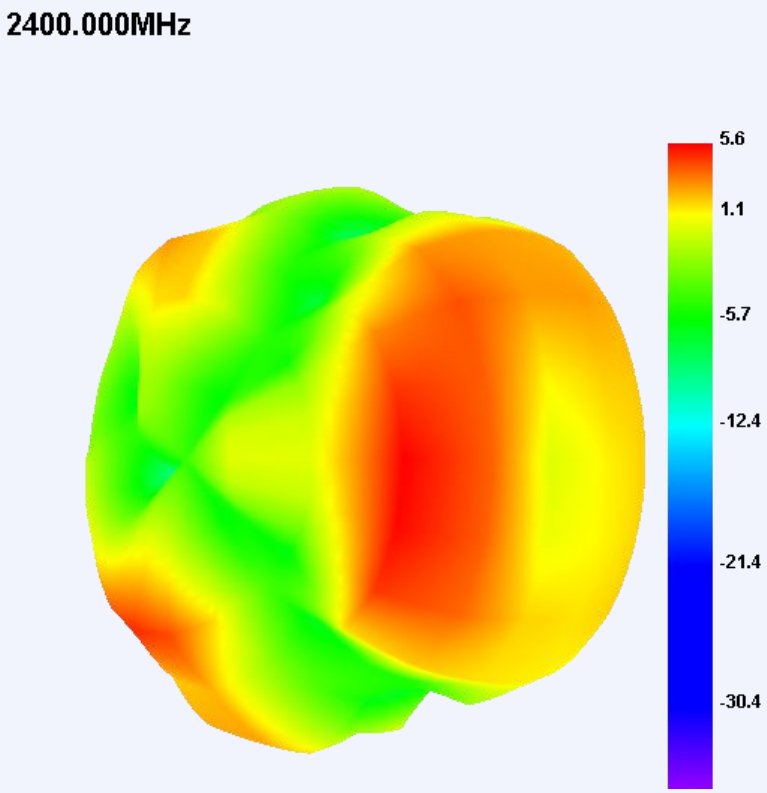
Passive Test For 2.4G												
Freq	Effi	Effi	Gain	Gain	UHIS	DHIS	Max	Min	Directivity	Beamwidth	AttH	AttV
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)	(dBi)	(3dB)	(dB)	(dB)
2400	77.44	-1.11	5.55	3.4	27.699	49.744	5.55	-15.2	6.66	15	49.66	49.8
2410	71.78	-1.44	5.17	3.02	25.287	46.493	5.17	-17.18	6.61	15	49.33	49.6
2420	68.41	-1.65	4.79	2.64	23.466	44.941	4.79	-17.58	6.43	15	49.12	49.04
2430	57.02	-2.44	3.83	1.68	19.031	37.987	3.83	-22.17	6.27	15	48.59	48.53
2440	56.35	-2.49	3.8	1.65	18.531	37.815	3.8	-22.45	6.3	15	48.55	48.47
2450	53.47	-2.72	3.57	1.42	17.483	35.985	3.57	-16.44	6.28	15	48.5	48.38
2460	58.7	-2.31	4.04	1.89	18.986	39.715	4.04	-16.64	6.36	30	48.71	48.85
2470	61.62	-2.1	4.35	2.2	19.51	42.11	4.35	-16.36	6.46	30	48.79	48.82
2480	57.86	-2.38	4.37	2.22	18.213	39.65	4.37	-18.01	6.75	30	48.97	49.06
2490	58.28	-2.34	4.59	2.44	18.603	39.676	4.59	-15.65	6.93	30	48.91	49.13
2500	56.93	-2.45	4.73	2.58	18.302	38.626	4.73	-15.92	7.18	30	48.93	49.17

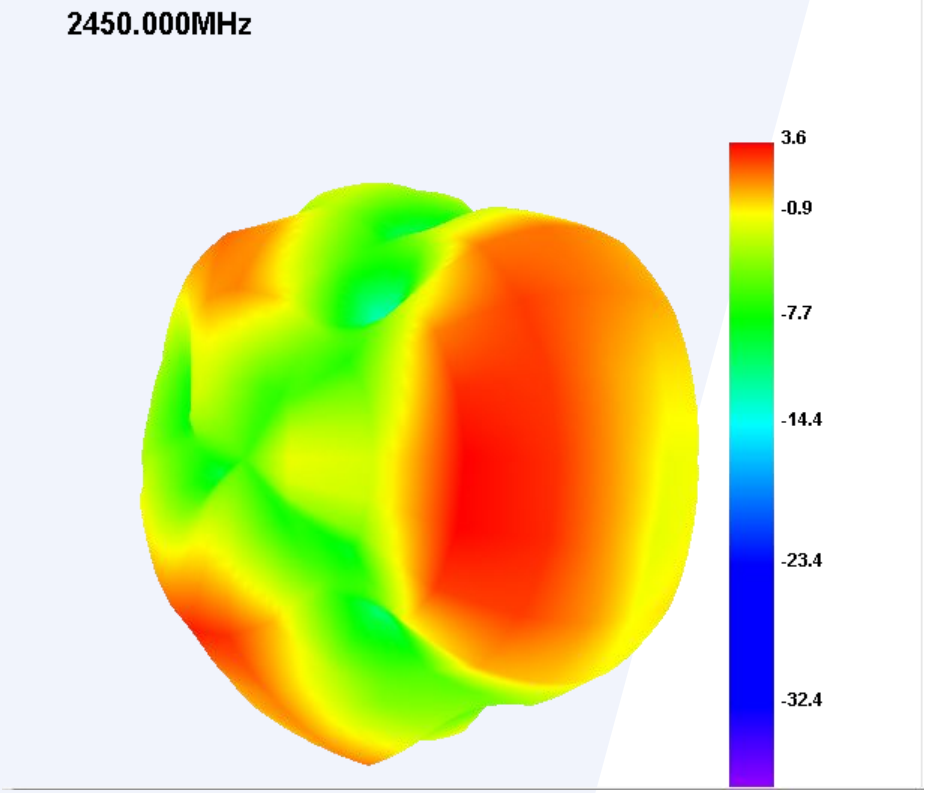
2.4G-2.5G增益&效率图



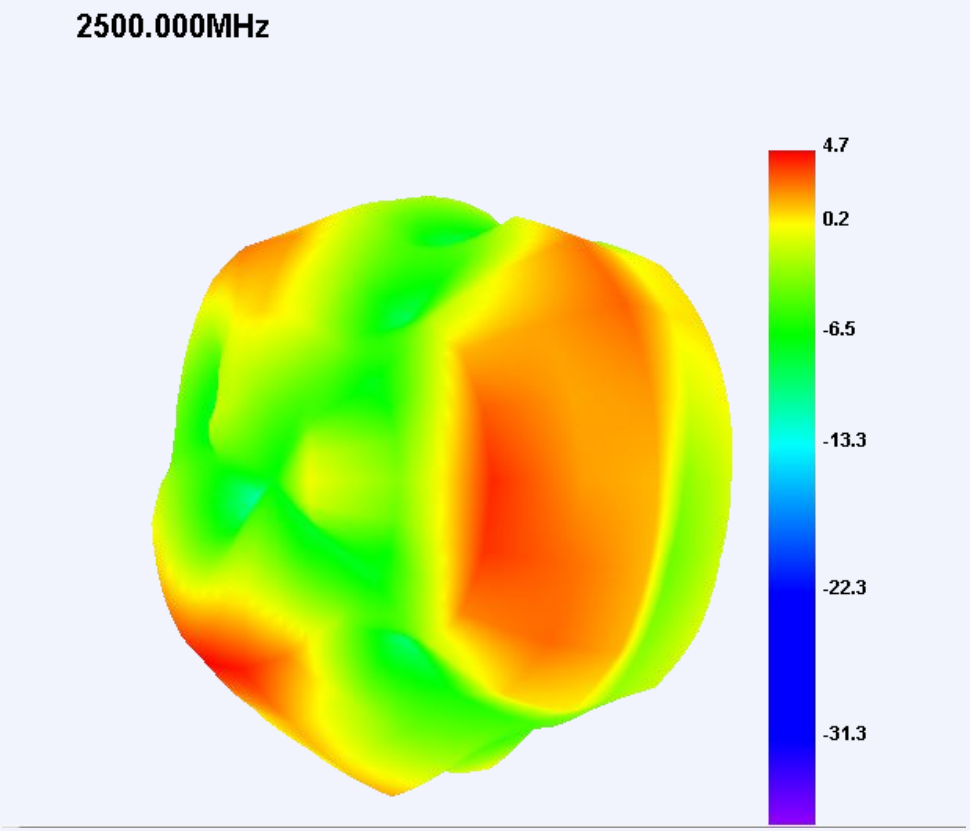


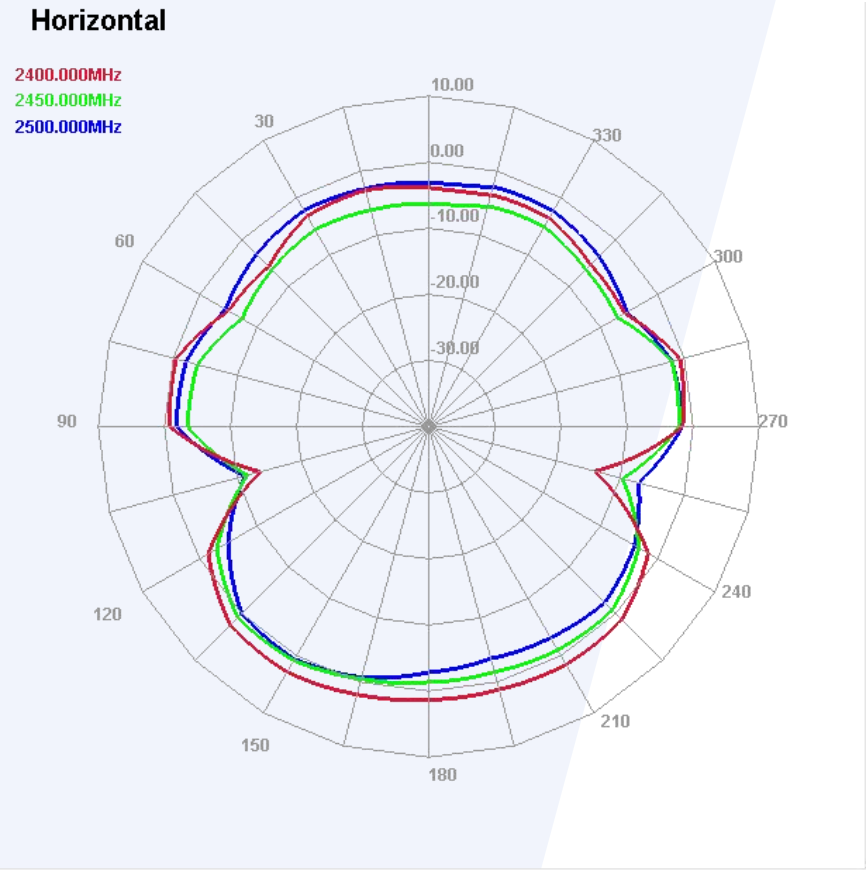
2.4G-2.5G 2D&3D方向图





2.4G-2.5G 2D&3D方向图





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Thank You !

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