



深圳市凯普深通讯科技有限公司

Shenzhen cape deep communication technology co., LTD

Second Floor, Yulong Office Building, Longcheng Industrial Zone, No. 440, Longguan Avenue, Longhua District

天线调试报告

test report

客 户：爱图仕

项目名：TY253

射 频：胡工

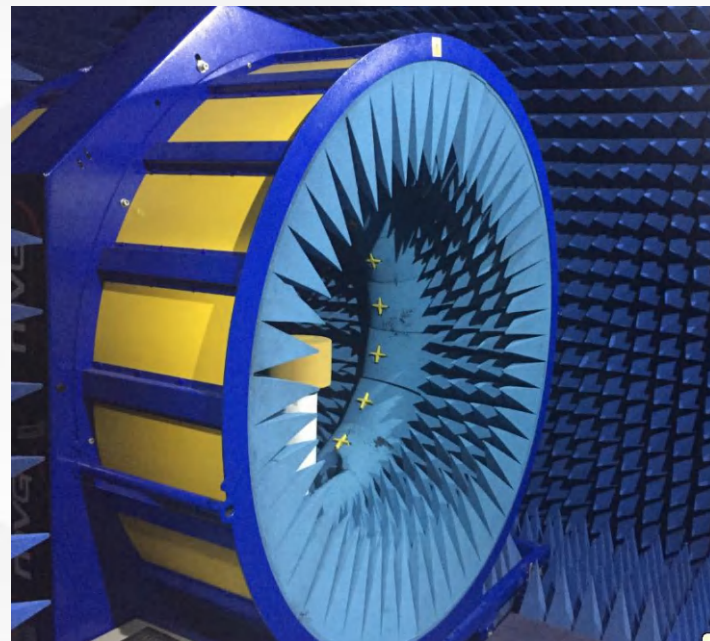
日 期：2025.8.12

版 本：01



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实验室测试环境及设备



测试项目	测试设备
S11、S12、VSWR、LOSS	网络分析仪E5071B、E5062A
Efficiency、Gain 3D Radiation Pattern	Satimo SG16暗室、GP7*4*3暗室、E5071B
TRP、TIS	Satimo SG16暗室、GP7*4*3暗室、8960、 CMW500、MT8820C、E4438C、



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项目调试简介

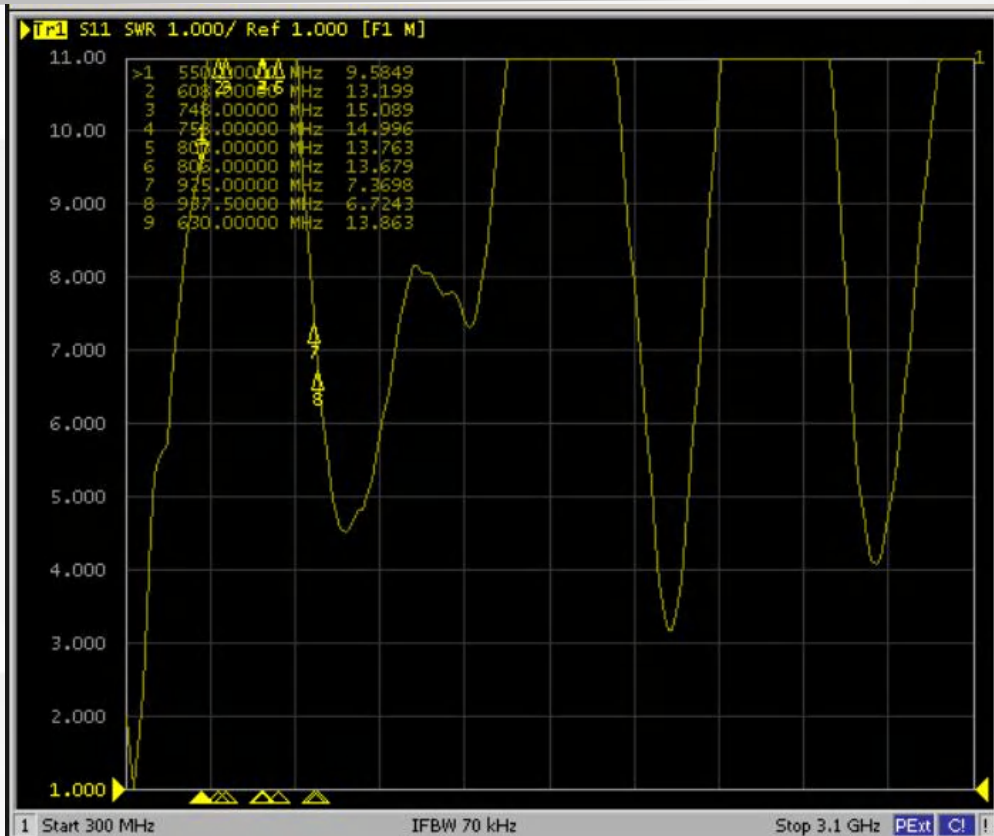
整机类型	外置TX天线		
		频段信息	天线形式
天线种类及频段信息		550MHz-940MHz	单极
天线材质			



天线匹配电路

主天线	Element	Value	主板原匹配

天线无源驻波图



天线无源测试数据

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
550	28.7	-5.42	-1.87	640	19.85	-7.02	-2.48
555	28.3	-5.48	-1.84	645	19	-7.21	-2.68
560	27.67	-5.58	-1.42	650	18.3	-7.38	-2.86
565	28.08	-5.52	-0.75	655	17.87	-7.48	-2.89
570	28.85	-5.4	-0.46	660	17.92	-7.47	-2.9
575	28.58	-5.44	-0.44	665	18.36	-7.36	-2.98
580	26.74	-5.73	-0.57	670	17.54	-7.56	-3.39
585	26.39	-5.79	-0.67	675	16.65	-7.79	-3.82
590	26.4	-5.78	-0.42	680	16.07	-7.94	-4.06
595	25.95	-5.86	-0.64	685	15.98	-7.96	-4.16
600	25.47	-5.94	-0.95	690	16.28	-7.88	-4.13
605	23.8	-6.23	-1.34	695	16.52	-7.82	-4.17
610	22.06	-6.56	-1.64	700	16.53	-7.82	-4.22
615	20.91	-6.8	-1.9	705	16.2	-7.9	-4.43
620	20.35	-6.91	-2.04	710	16	-7.96	-4.55
625	20.48	-6.89	-2.07	715	15.9	-7.98	-4.63
630	20.68	-6.84	-2.16	720	16.31	-7.88	-4.65
635	20.32	-6.92	-2.38				

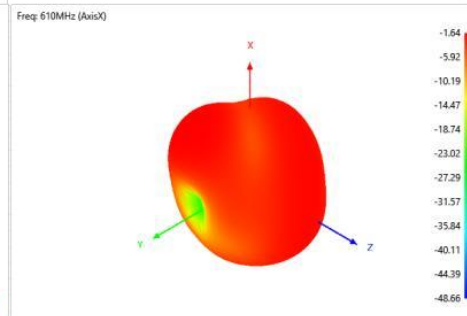
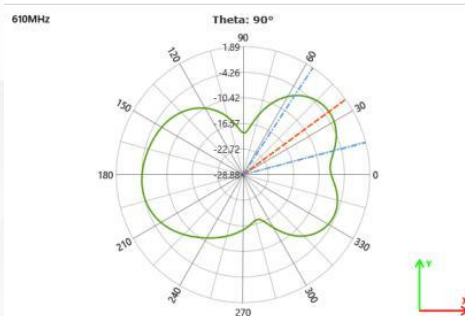
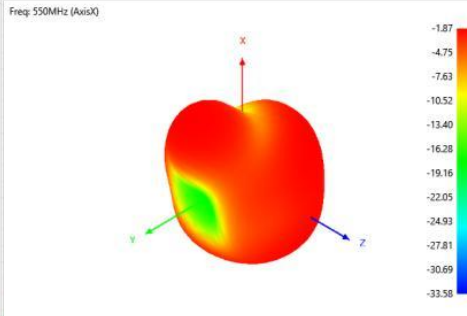
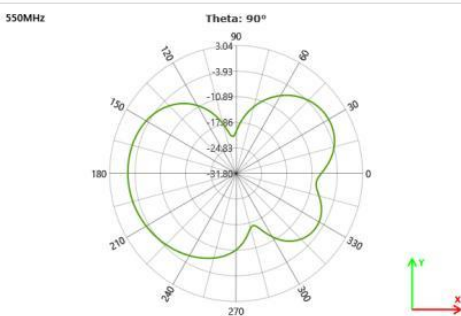
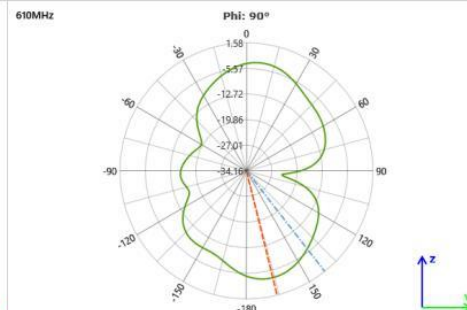
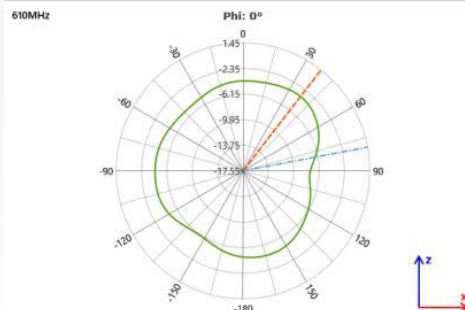
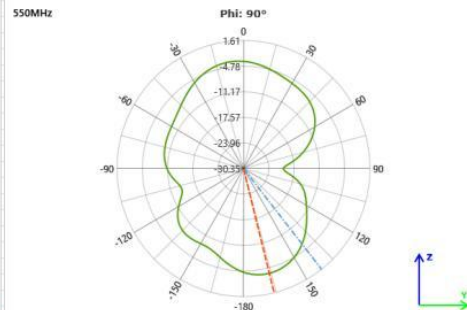
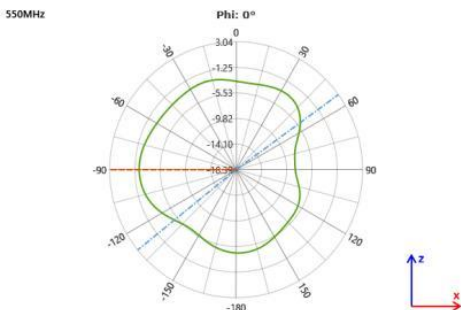


天线无源测试数据

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
725	16.92	-7.72	-4.42	845	11.51	-9.39	-5.98
730	16.97	-7.7	-4.41	850	11.55	-9.37	-5.8
735	16.46	-7.84	-4.62	855	11.58	-9.36	-5.59
740	15.84	-8	-4.91	860	11.42	-9.42	-5.66
745	15.28	-8.16	-4.91	865	11.34	-9.46	-5.61
750	15.17	-8.19	-4.85	870	11.38	-9.44	-5.49
755	15.13	-8.2	-4.9	875	11.61	-9.35	-5.36
760	14.91	-8.27	-4.94	880	11.86	-9.26	-5.14
765	14.49	-8.39	-5.18	885	11.95	-9.22	-4.95
770	13.89	-8.57	-5.41	890	12.02	-9.2	-4.85
775	13.34	-8.75	-5.68	895	12.16	-9.15	-4.56
780	13.02	-8.85	-5.78	900	12.47	-9.04	-4.41
785	12.93	-8.88	-5.81	905	12.84	-8.91	-4.21
790	12.91	-8.89	-5.88	910	13.12	-8.82	-4.07
795	12.74	-8.95	-5.99	915	13.23	-8.78	-3.91
800	12.47	-9.04	-6.01	920	13.33	-8.75	-3.8
805	12.25	-9.12	-5.91	925	13.6	-8.66	-3.61
810	12.05	-9.19	-6.01	930	13.85	-8.58	-3.48
815	12.13	-9.16	-6.01	935	14.23	-8.47	-3.32
820	12.15	-9.15	-6.08	940	14.68	-8.33	-3
825	11.98	-9.21	-6.16	945	14.79	-8.3	-2.92
830	11.8	-9.28	-6.19	950	14.97	-8.25	-2.83
835	11.6	-9.35	-6.1	955	15.09	-8.21	-2.82
840	11.48	-9.4	-5.93	960	15.47	-8.11	-2.63

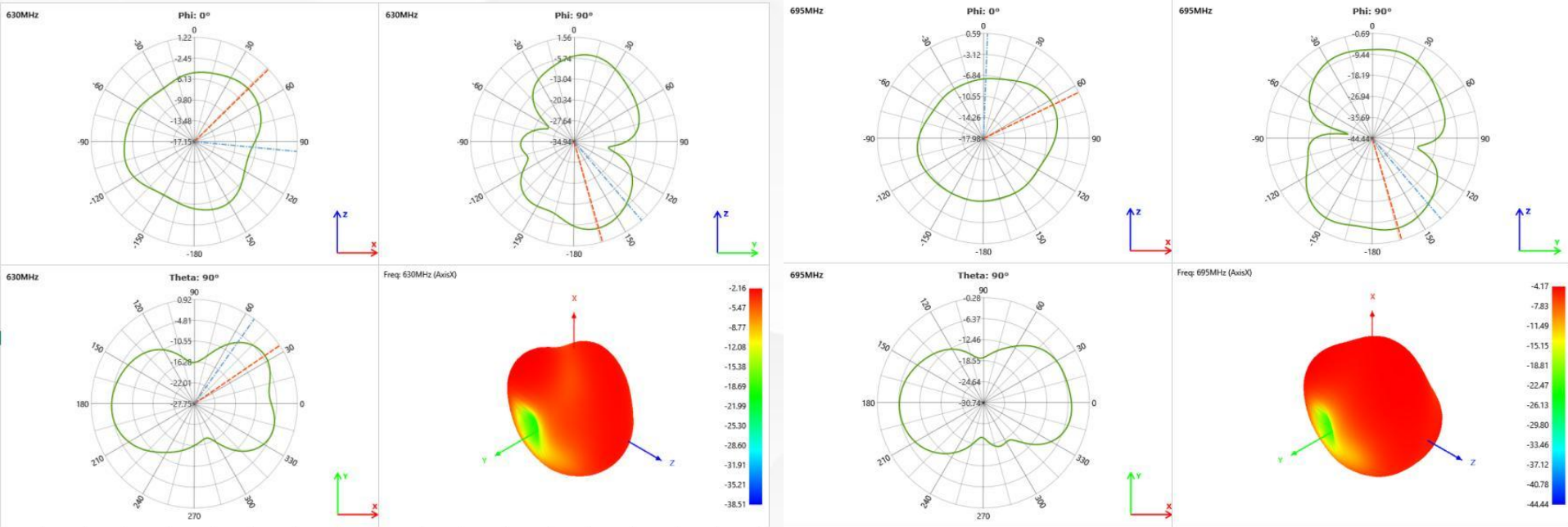


天线无源方向图



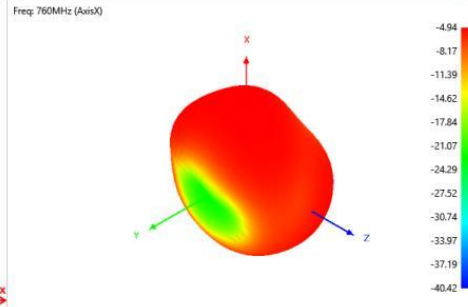
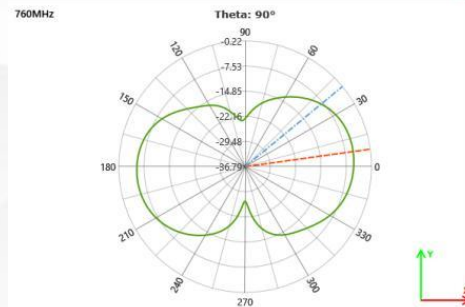
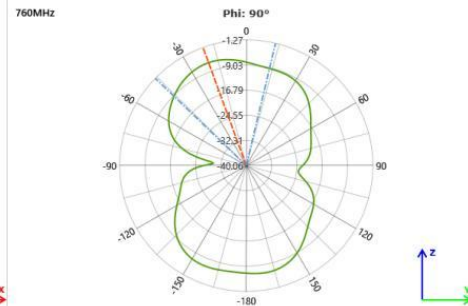
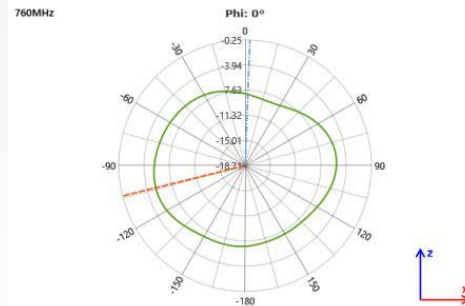
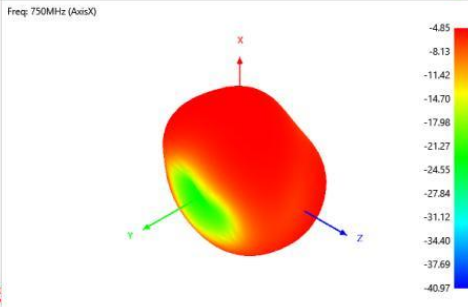
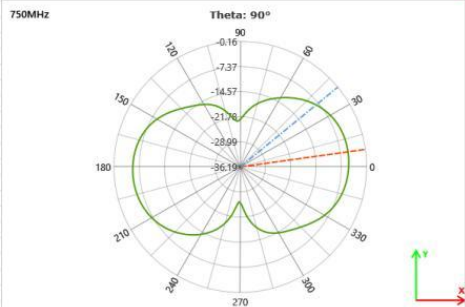
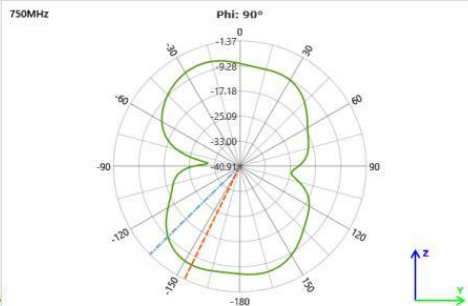
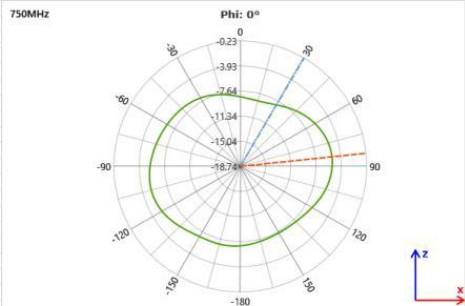


天线无源方向图



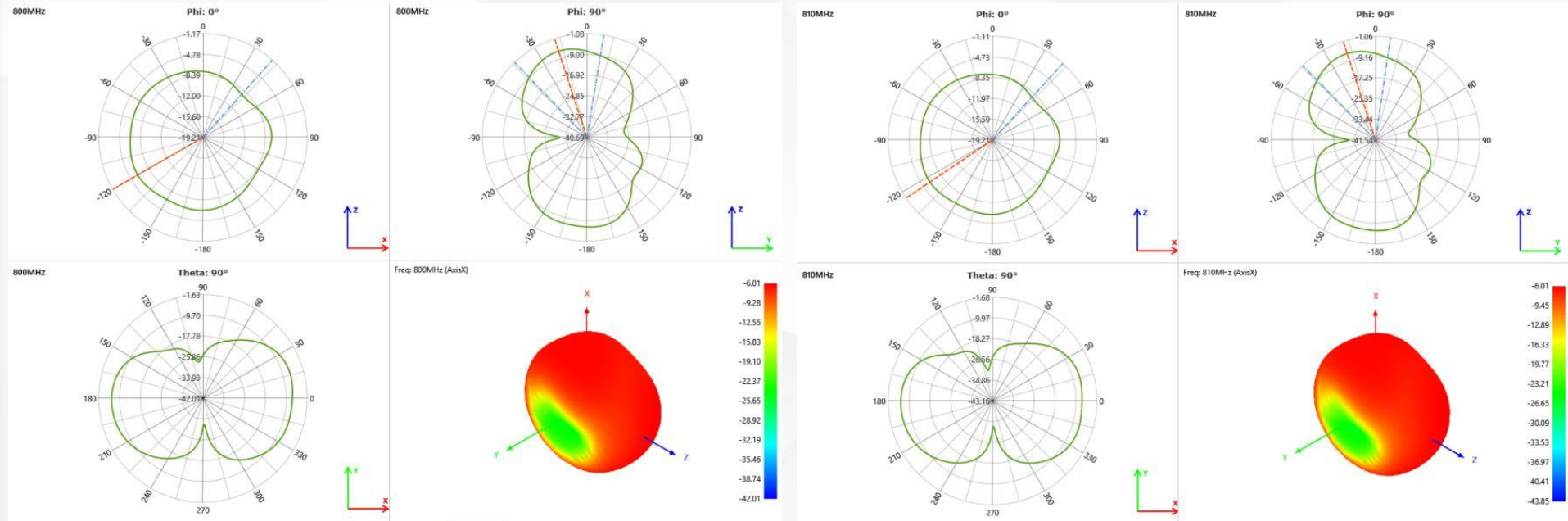


天线无源方向图



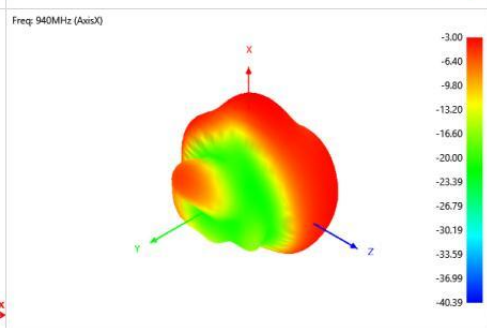
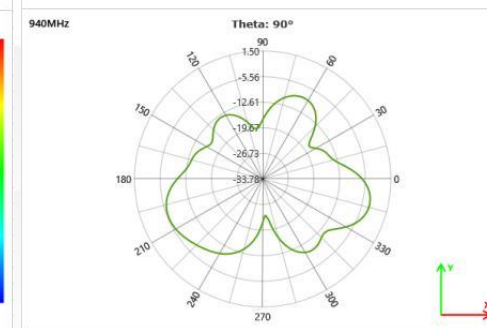
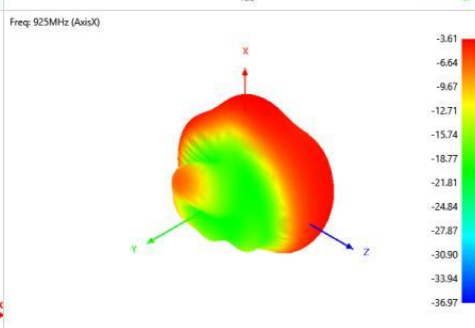
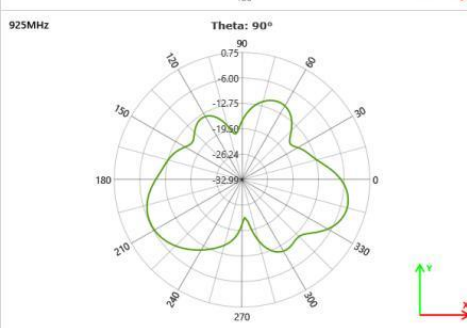
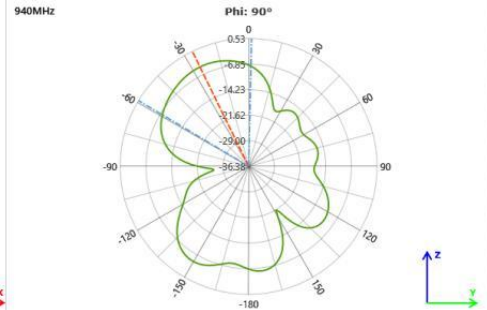
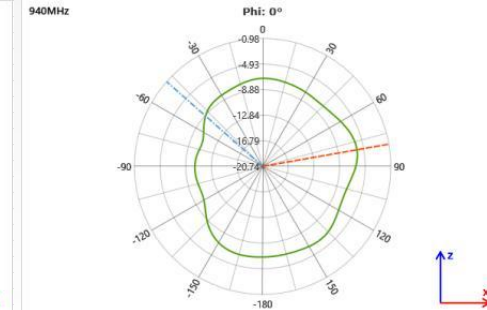
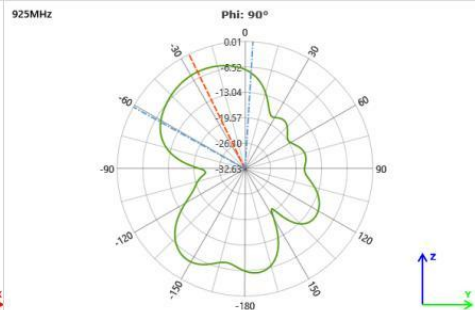
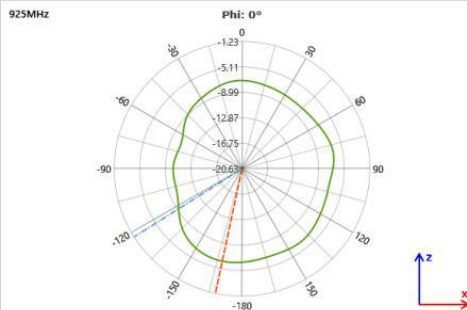


天线无源方向图





天线无源方向图



测试样品





联系方式

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THE END

感谢您的宝贵意见！