



泉州市根通通信技术有限公司

quanzhou Gen tong communication Technology Co.,Ltd





泉州市根通通信技术有限公司

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天线类型/Type: PIFA

天线型号/Model: N/A



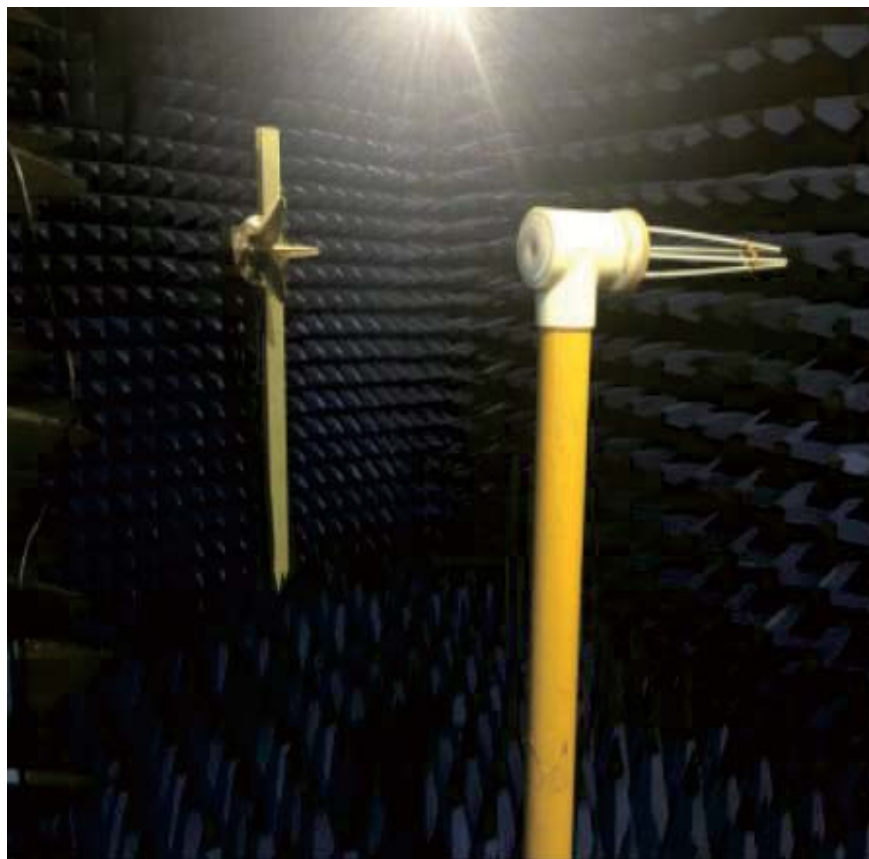
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一. 测试暗室简介 Test darkroom introduction

1. 有源测试：支持2G/3G/4G制式多模式测量，可测发射TRP 接收TIS
2. 无源测试：可测试增益，效率

1. Active test: support 2G/3G/4G multi-mode measurement, can measure the transmit TRP receive TIS
2. Passive test: can test gain, efficiency





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二. 机台图片 Eut Pictures





三. OTA有源数据 OTA Active Data

Test Condition		Free Space			
band	Channel	TRP (dBm)	MAX (dBm)	TIS (dBm) 10MHZ	Gain (dBi)
LTE B2	18650	18.32			2.0
	18950	18.19			
	19150	18.27		-92.91	
LTE B4	20000	18.75			2.0
	20175	19.06			
	20350	18.96		-92.69	
LTE B5	20450	18.29			1.5
	20525	19.45			
	20600	19.86		-91.34	
LTE B7	20800	17.56			2.0
	21100	18.24			
	21400	18.91		-90.57	



三. OTA有源数据 OTA Active Data

Test Condition		Free Space			
band	Channel	TRP (dBm)	MAX (dBm)	TIS (dBm) 10MHZ	Gain (dBi)
LTE B12	23060	18.15			1.5
	23095	19.67			
	23130	18.82			
LTE B13	23180				1.5
	23230	21.54			
	23279				
LTE B14	23180				1.5
	23230	19.10			
	23279				
LTE B17	23780	19.23			1.5
	23790	19.63			
	23800	18.98		-92.49	
LTE B25	26100	21.08			2.0
	26350	21.62			
	26600	21.27		-91.94	



三. OTA有源数据 OTA Active Data

Test Condition		Free Space			
band	Channel	TRP (dBm)	MAX (dBm)	TIS (dBm) 10MHZ	Gain (dBi)
LTE B26	26700	20.98			1.5
	26850	20.18			
	27000	19.53		-91.61	
LTE B66	66486	18.29			2.0
	66786	18.61			
	67086	18.89		-93.65	
LTE B71	678510	18.31			1.5
	679510	18.25			
	678010	18.13		-93.54	
LTE B41	40600	18.91			2.0
	40620	18.85			
	41140	19.22		-91.61	



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三. OTA有源数据 OTA Active Data

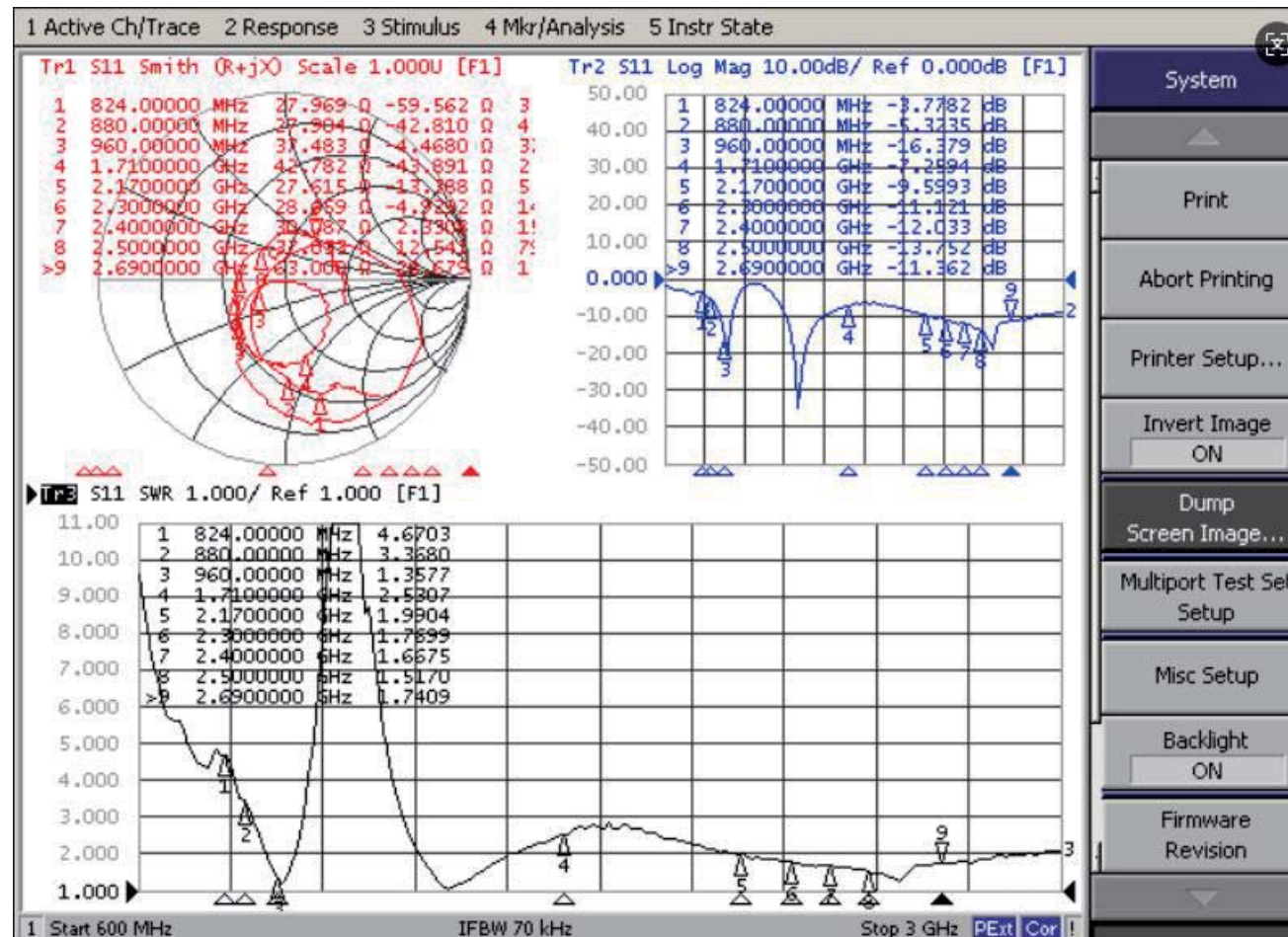
Test Condition		Free Space1#			
band		TRP (dBm)	MAX (dBm)	TIS (dBm) 10MHZ	Gain (dBi)
wifi11B 2.4G	1	10.18			-3.8
	6	11.25			
	11	10.68		-84.25	
wifi 11A 5G	149	9.14			-2.0
	157	9.25			
	165	9.14		-79.15	



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四. LTE天线无源SWR Passive log&smith&SWR





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五. LTE天线性能参数 Passive log&smith&SWR

频率范围Frequency Range	699-960MHZ	1710-2170MHZ	2300-2690 MHZ
输入阻抗Impedance	50 Ω	50 Ω	50 Ω
驻波比 Swr	1.35	1.99	1.57
回波损耗 Log Mag	-16.37	-9.95	-13.75
史密斯 Smith	37.48 Ω	27.61 Ω	37.63 Ω
增益 Gain	1.3~1.5	1.8~2.0	1.7~2.0
极化方式 Polarization	垂直/水平	垂直/水平	垂直/水平
辐射方向 Radiation	全向	全向	全向
高度 Height	50mm	50mm	50mm
接头 Termination	8801	8801	8801
天线材料 Radome Material	橡皮天线	橡皮天线	橡皮天线
天线颜色 Radome Color	黑色	黑色	黑色

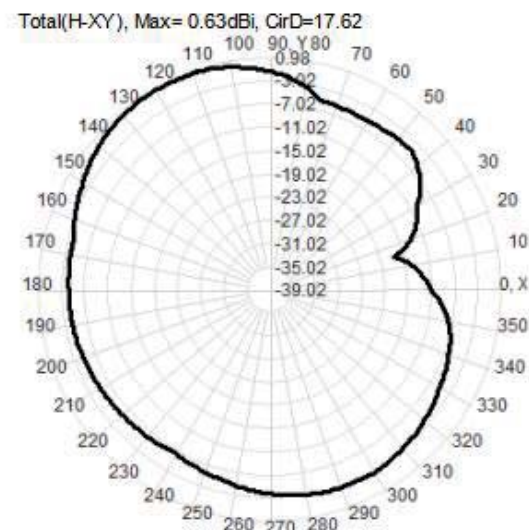
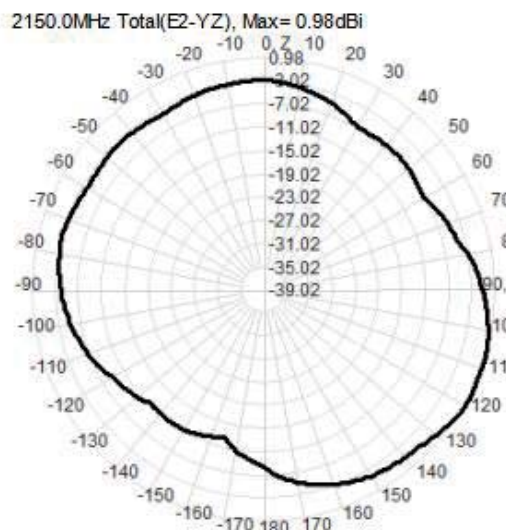
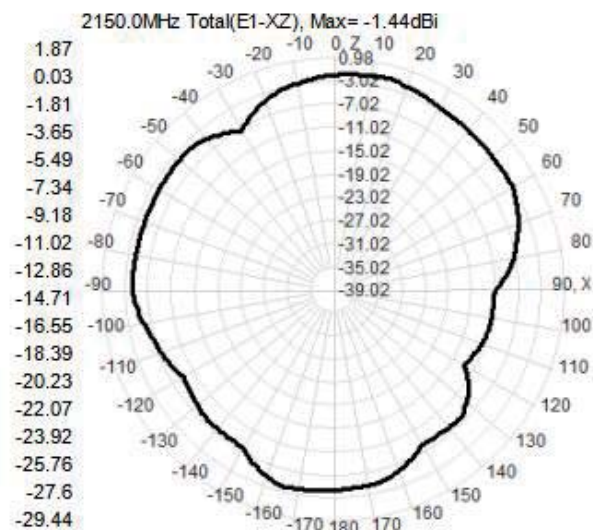
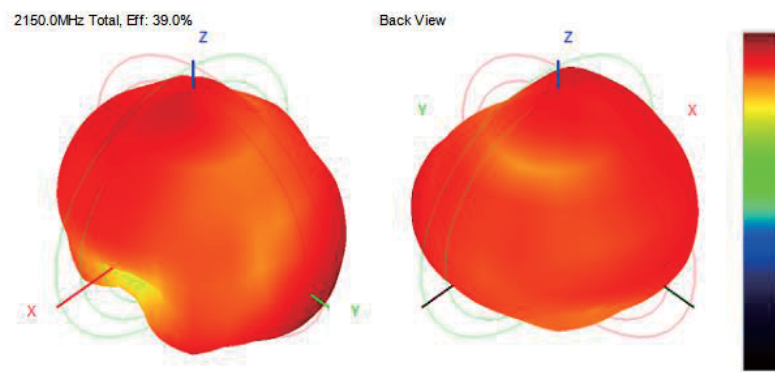


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六. 增益& 3D苹果图

3D radiation pattern diagram



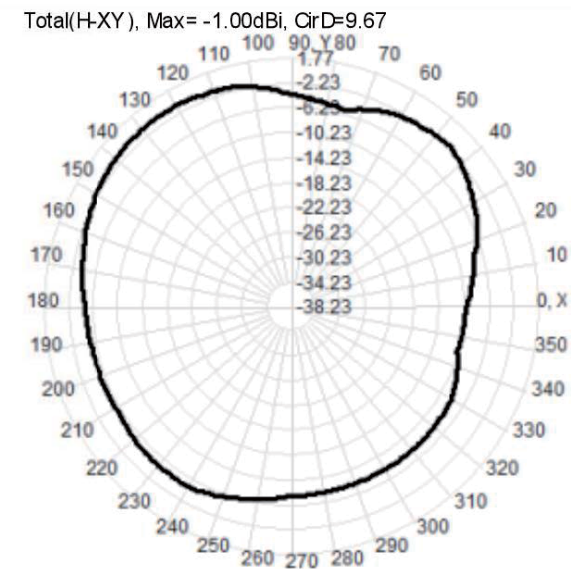
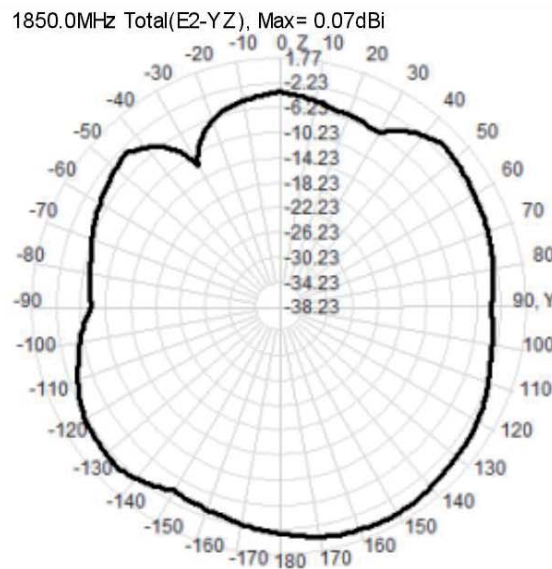
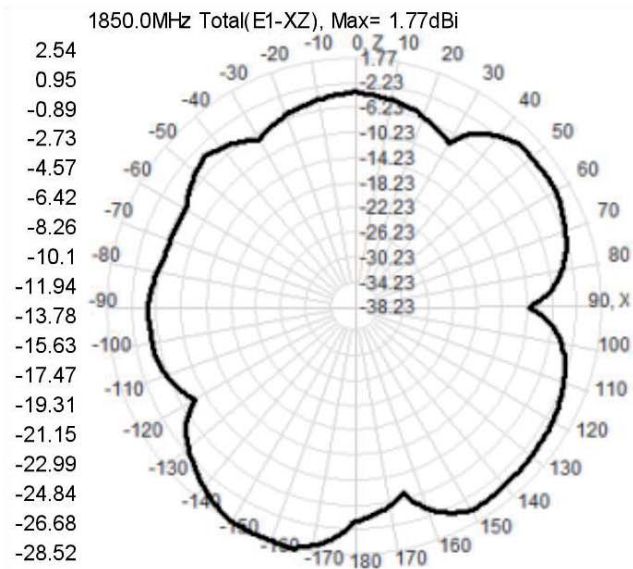
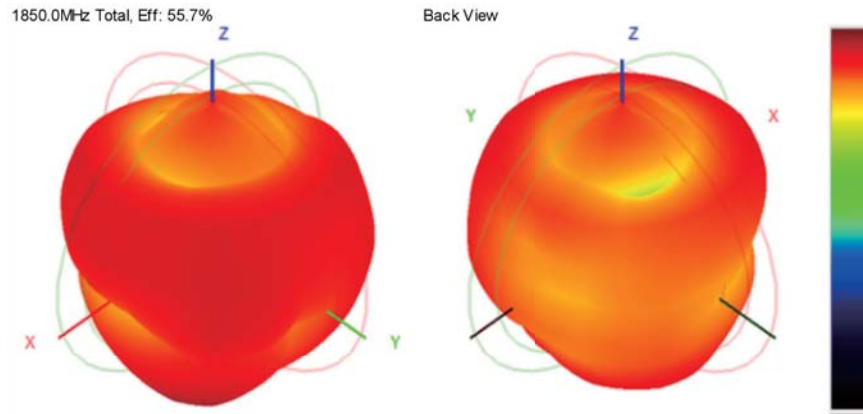


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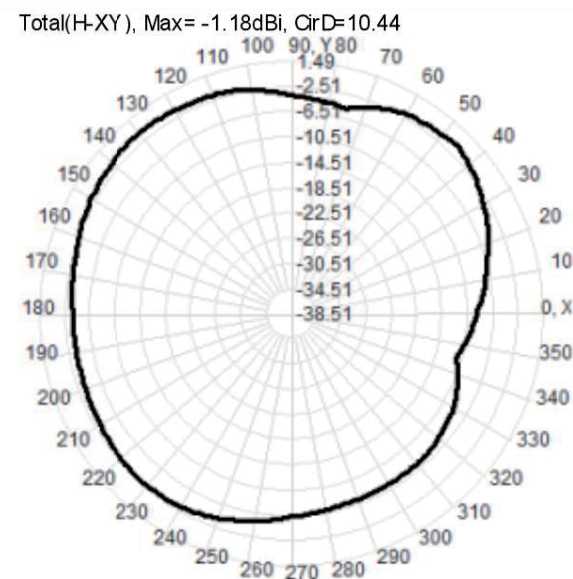
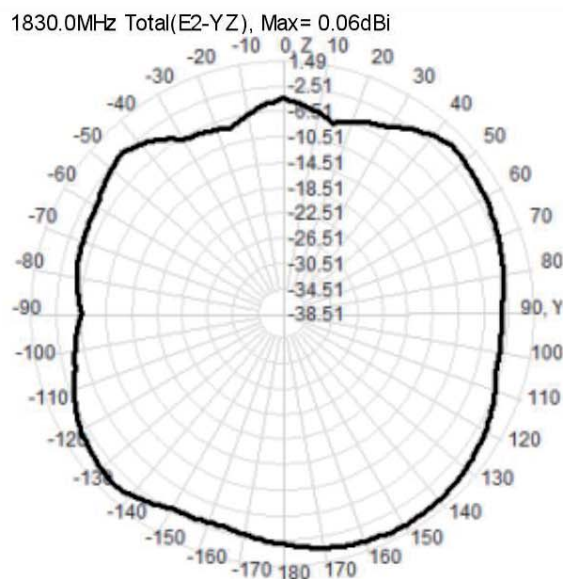
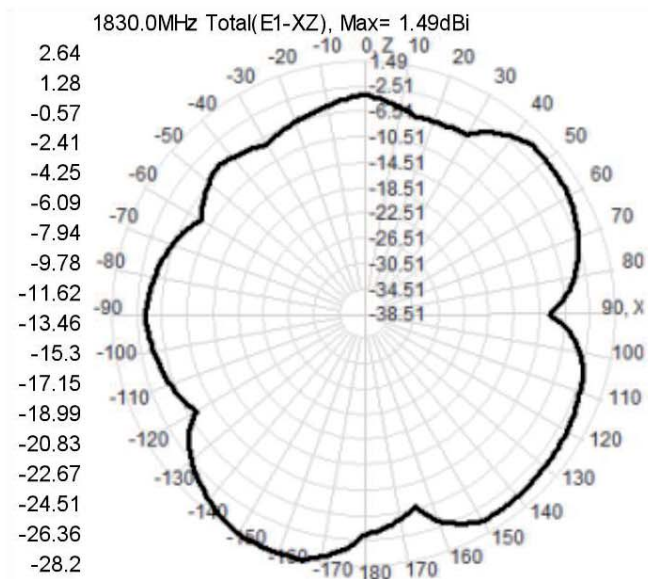
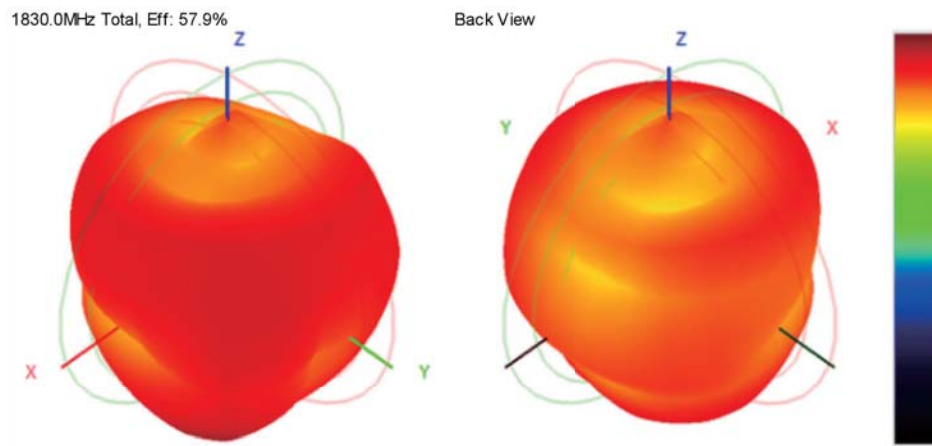


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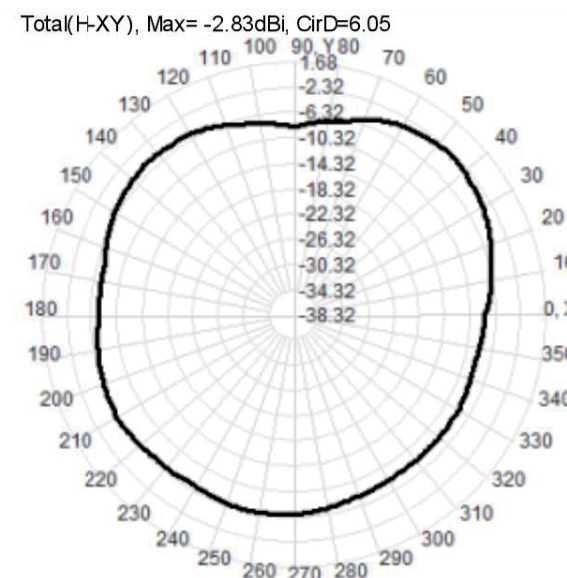
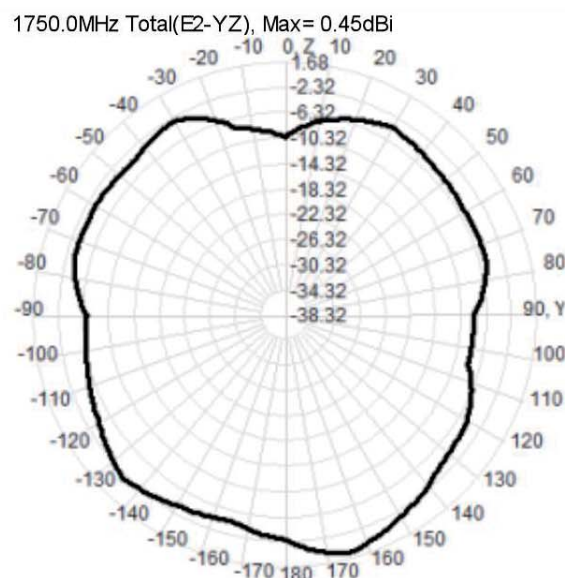
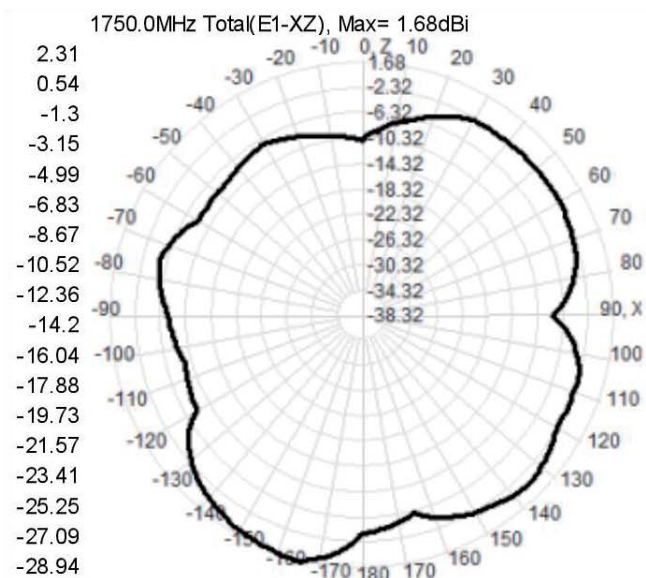
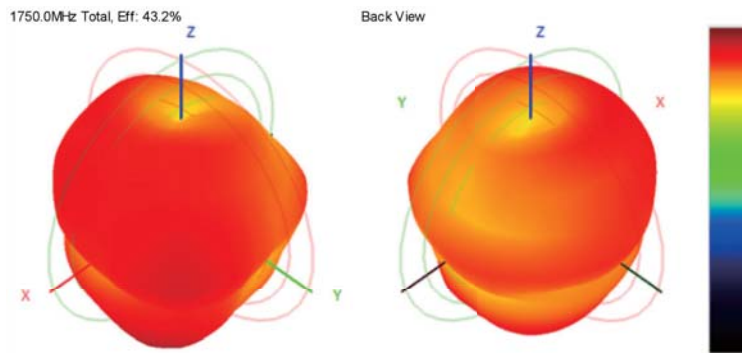


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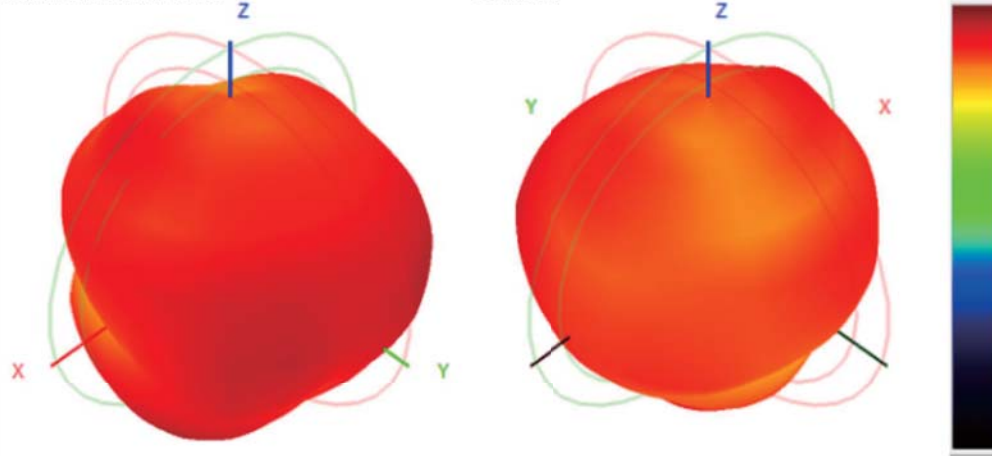
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六. 增益& 3D苹果图

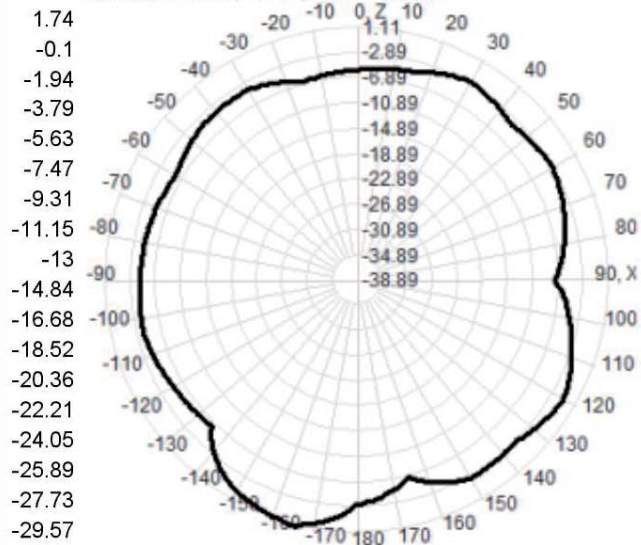
3D radiation pattern diagram

880.0MHz Total, Eff: 46.0%

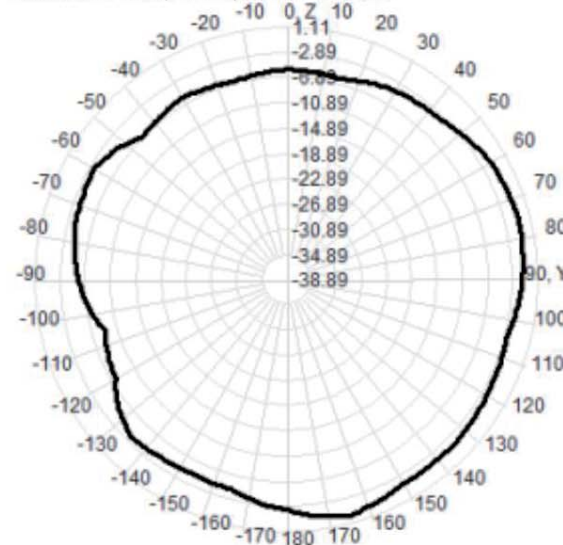
Back View



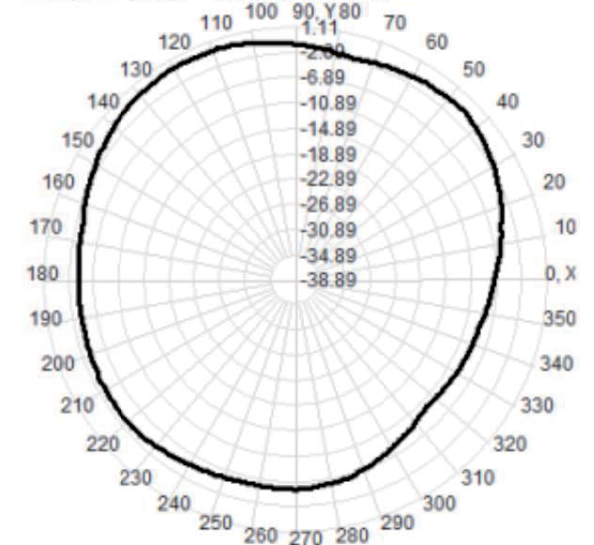
880.0MHz Total(E1-XZ), Max= 1.11dBi



880.0MHz Total(E2-YZ), Max= -0.49dBi



Total(H-XY), Max= -0.32dBi, CirD=9.80



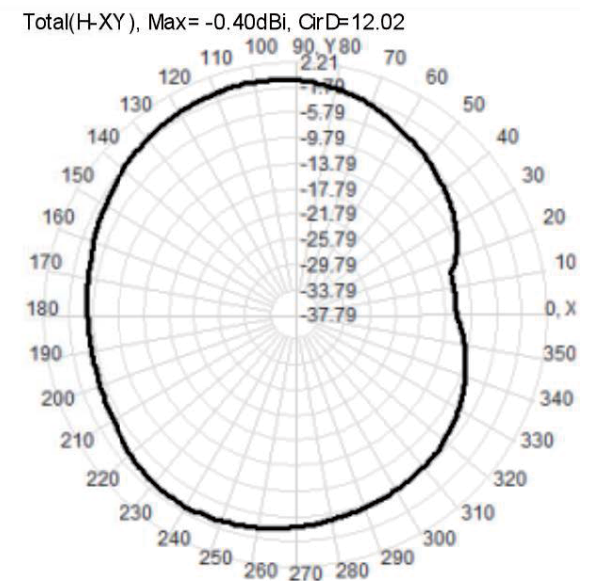
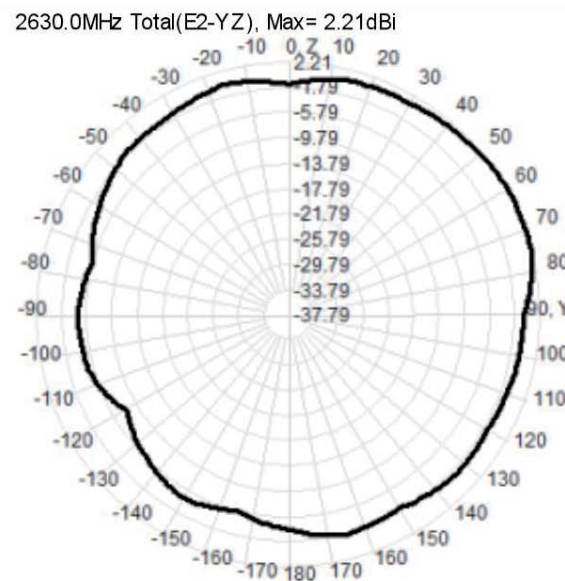
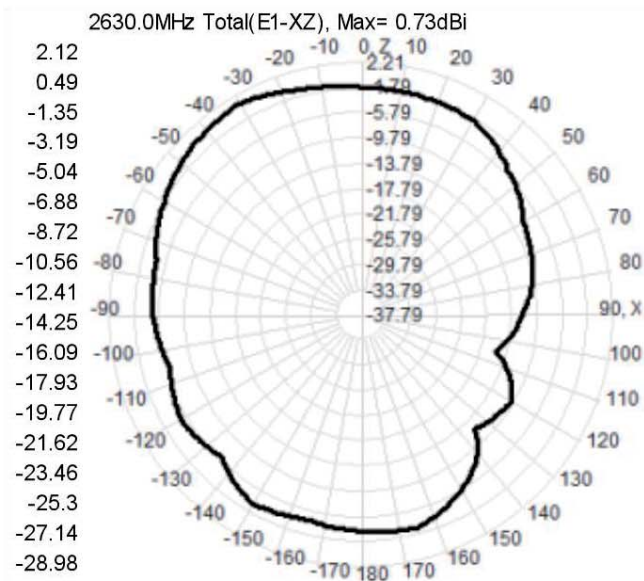
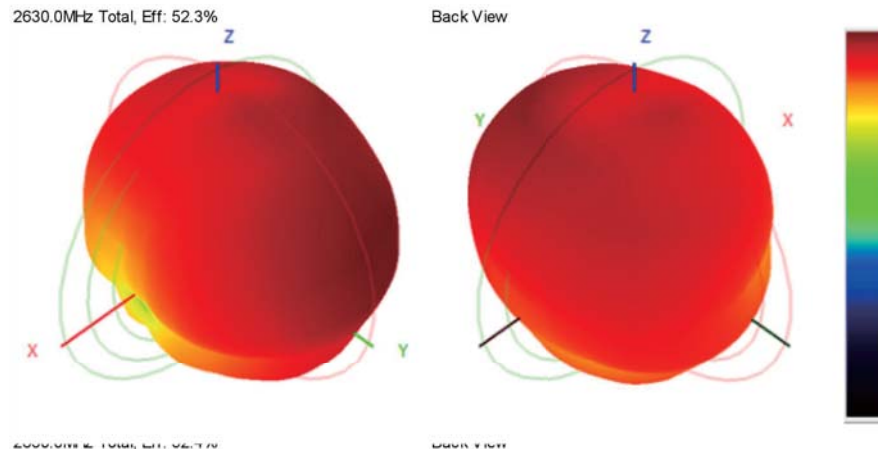


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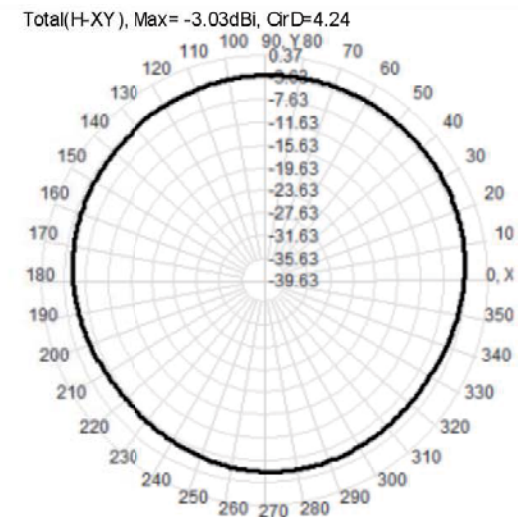
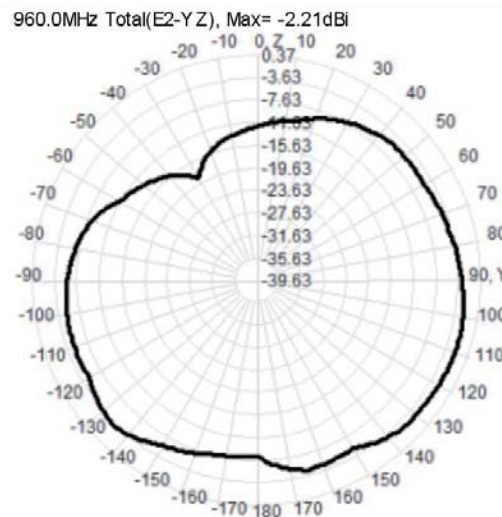
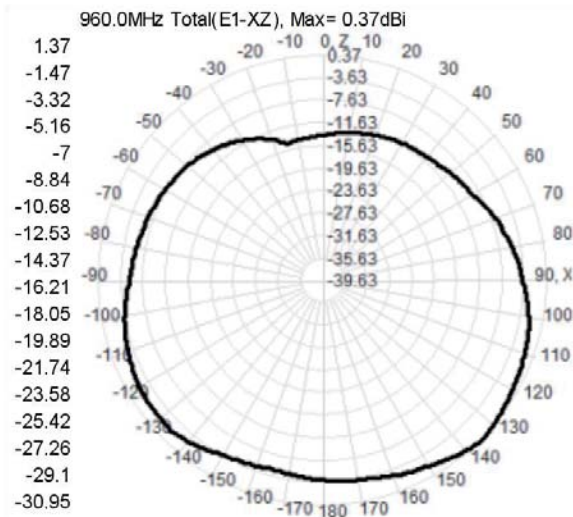
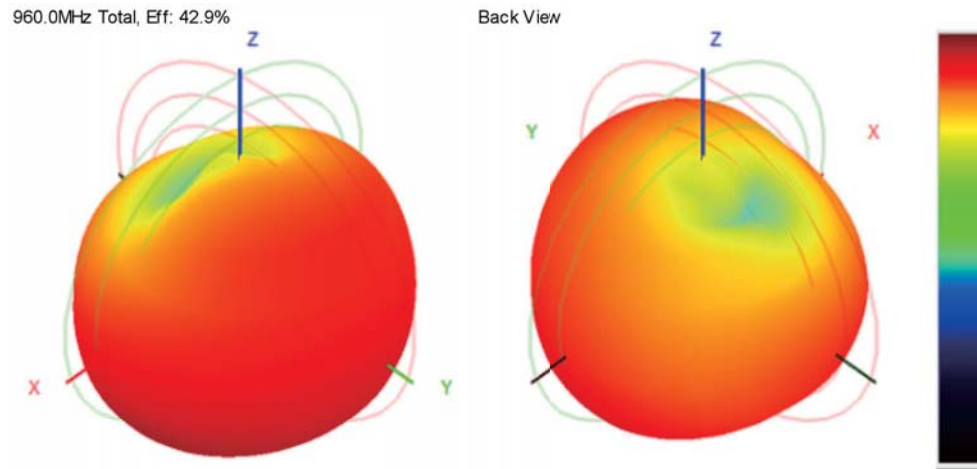


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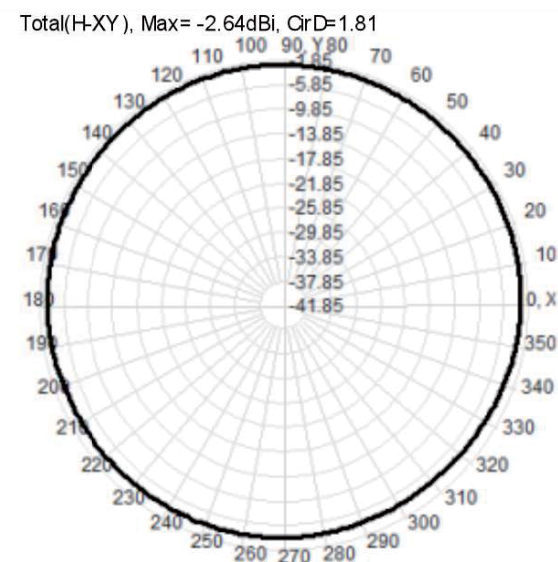
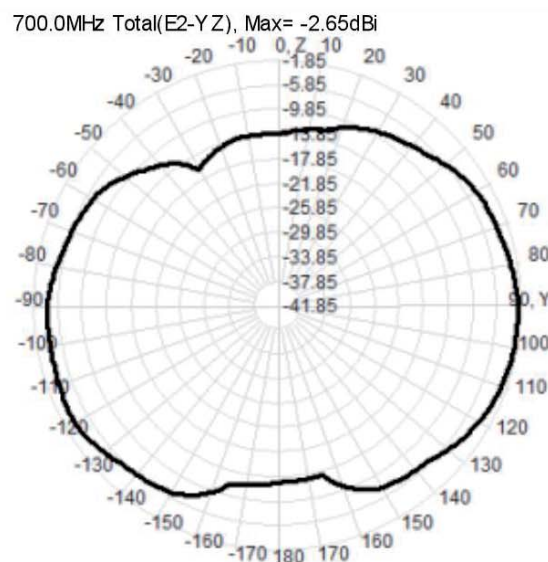
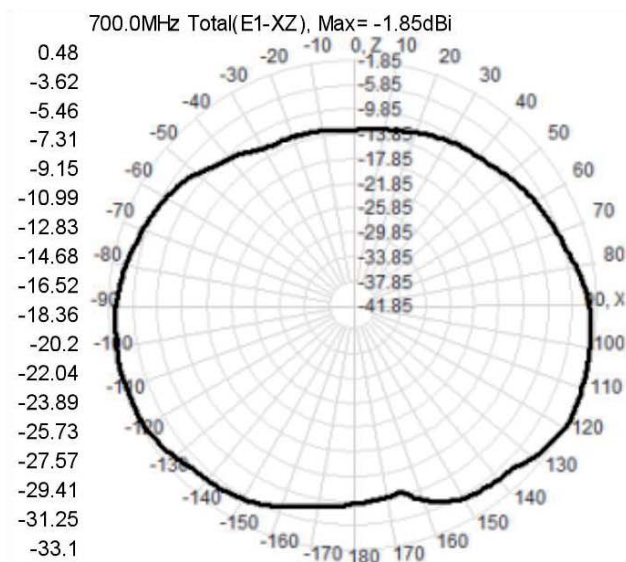
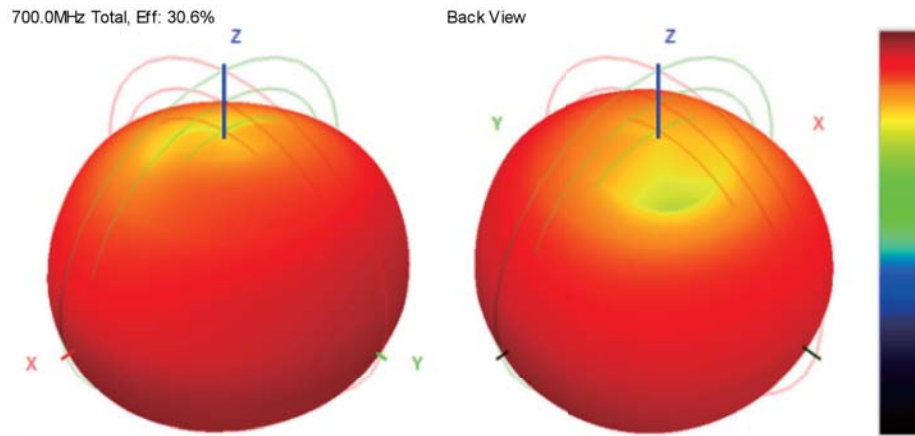


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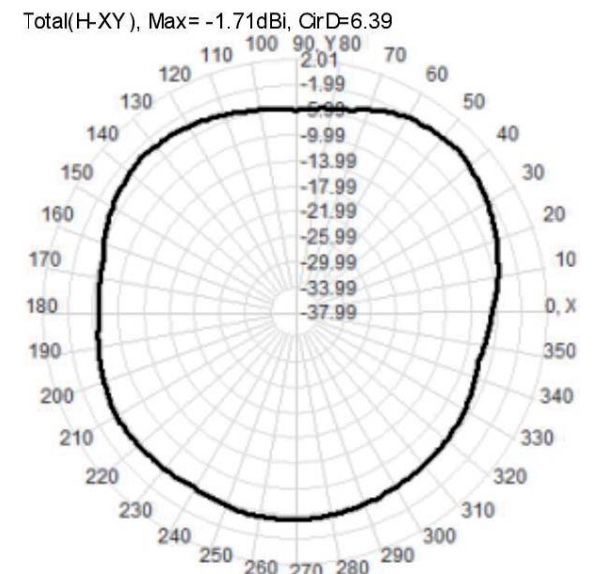
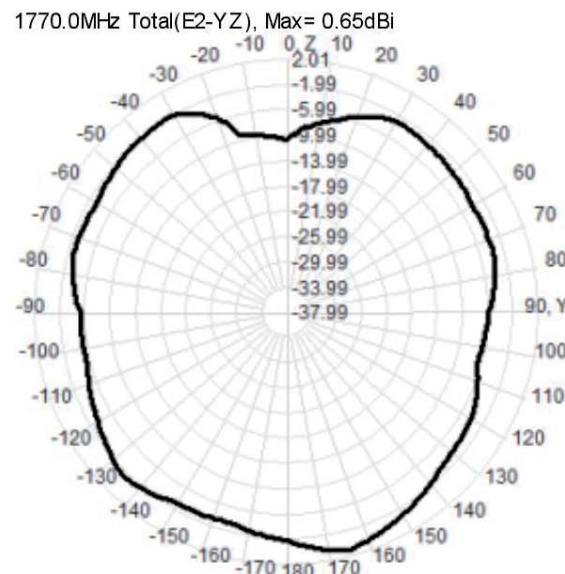
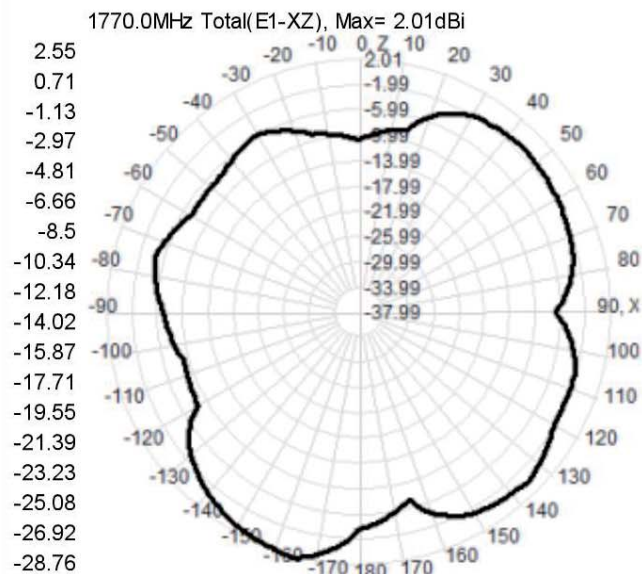
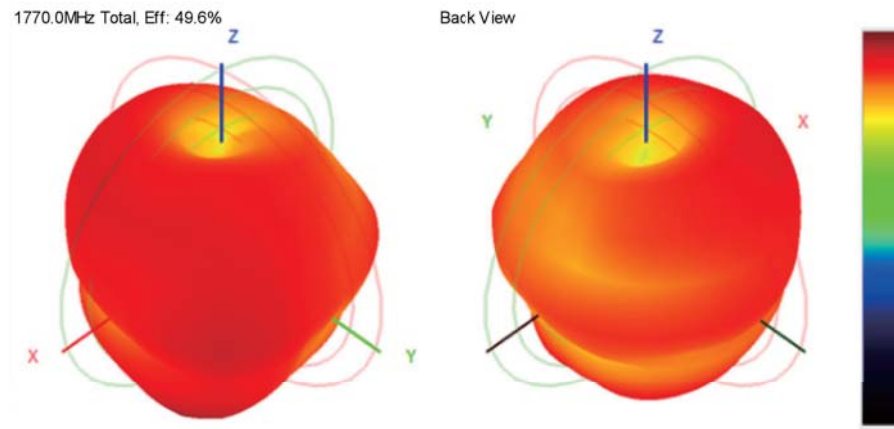


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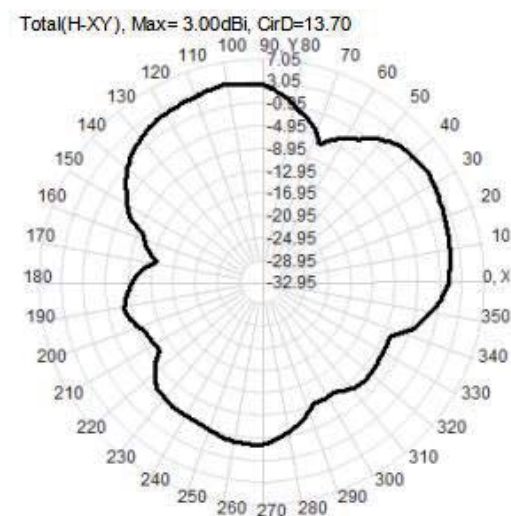
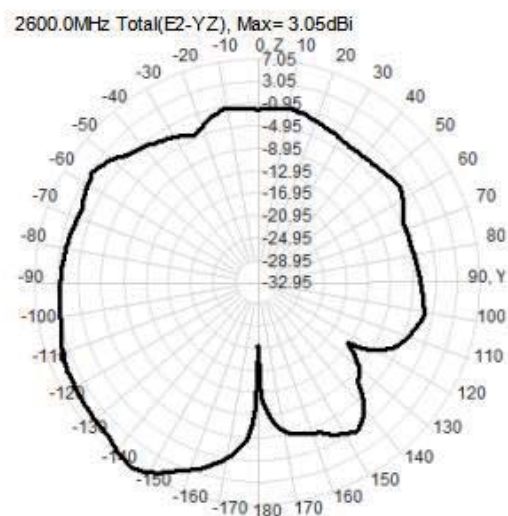
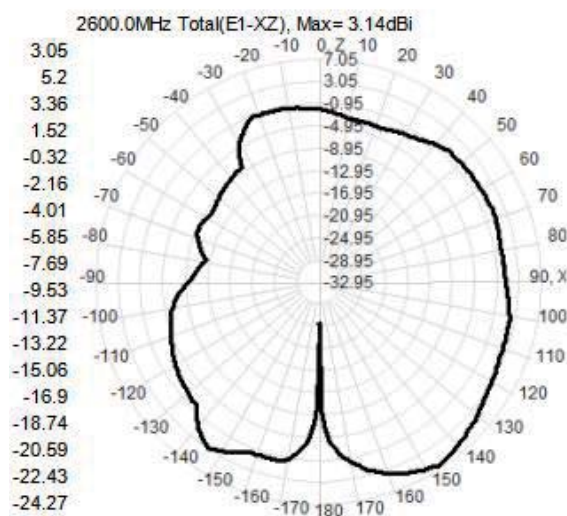
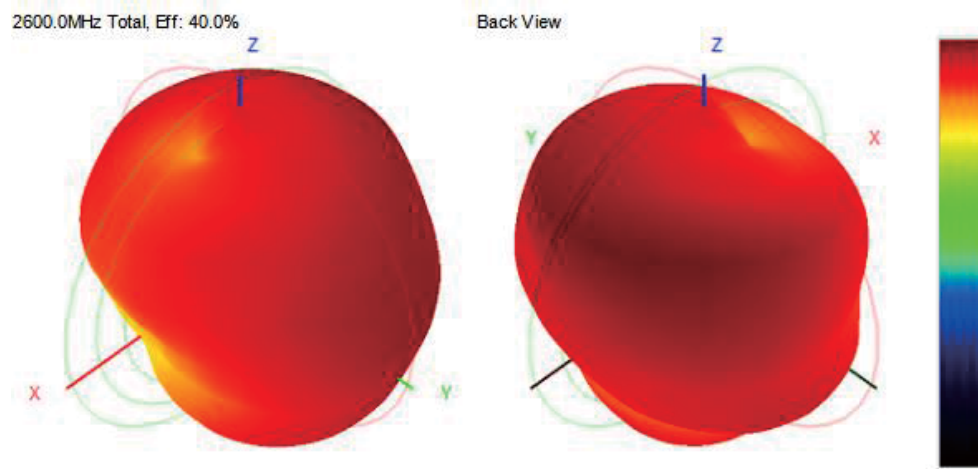


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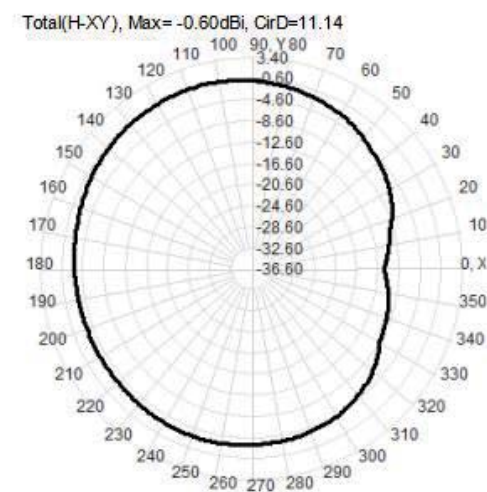
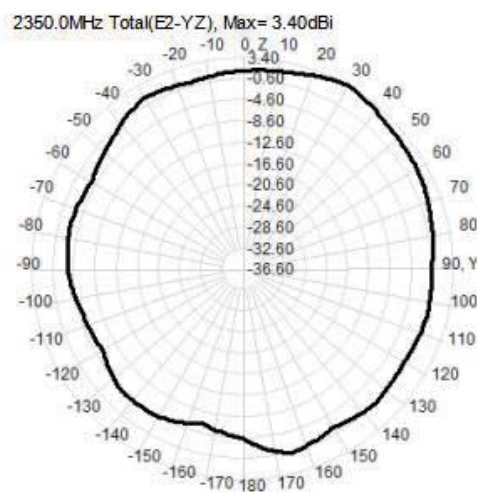
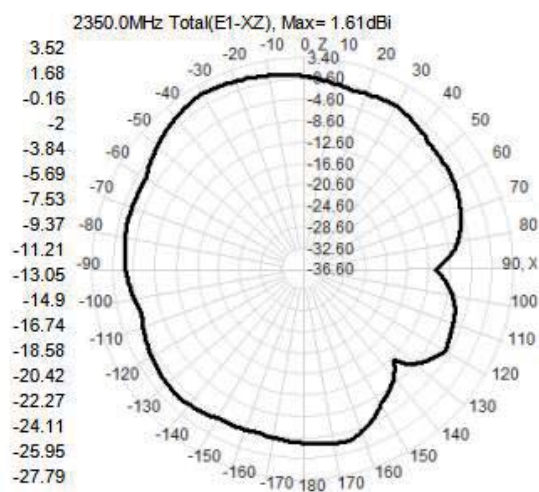
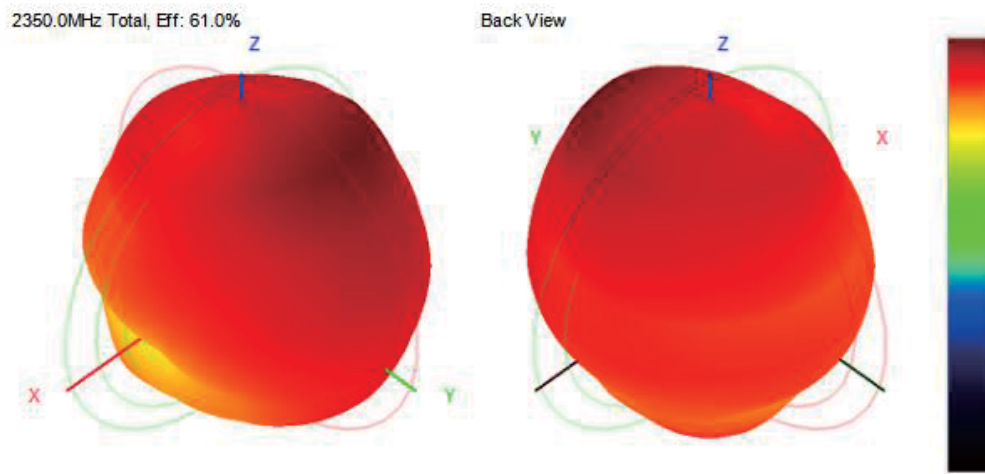


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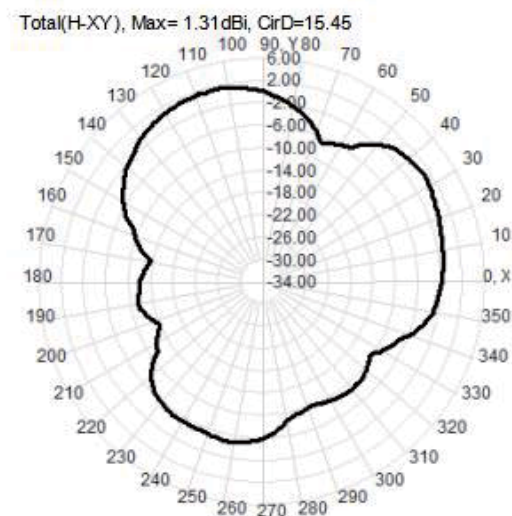
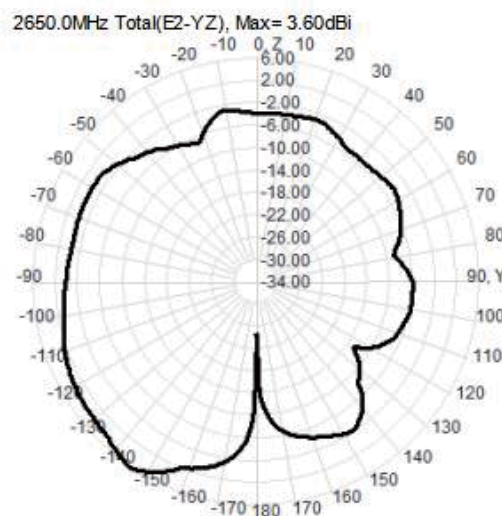
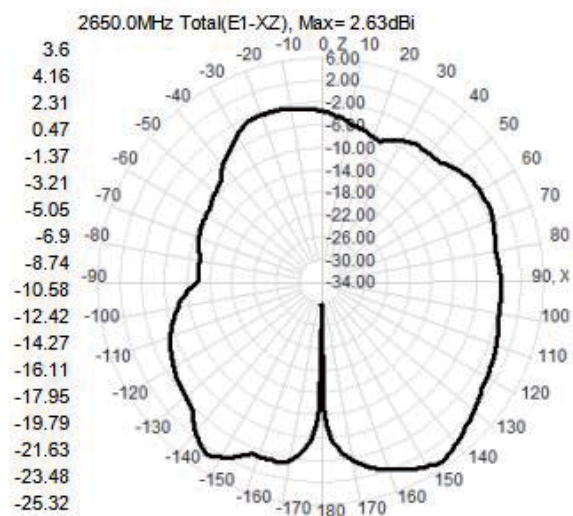
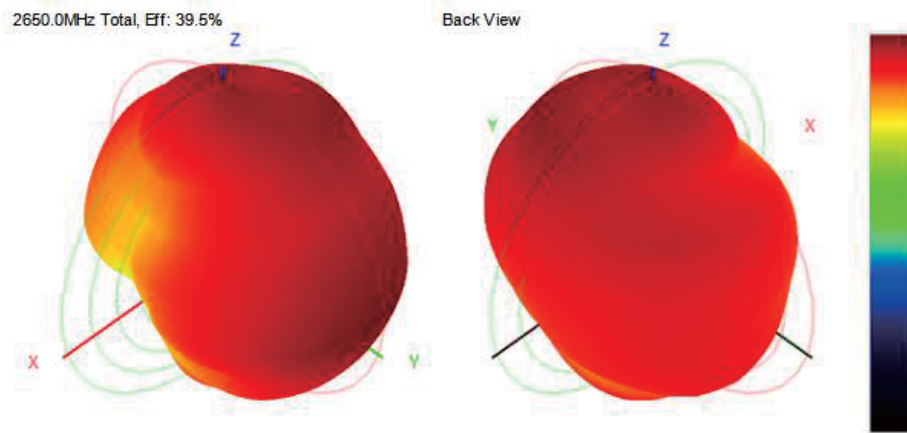


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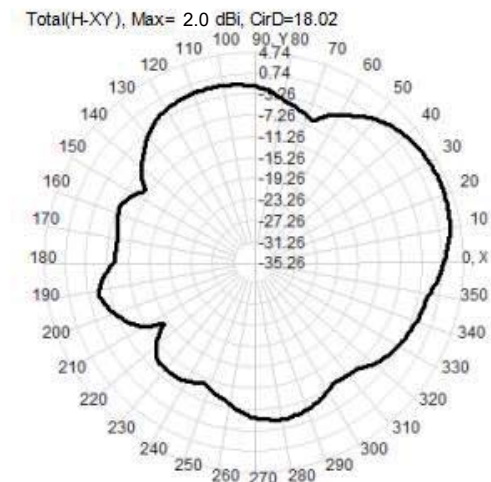
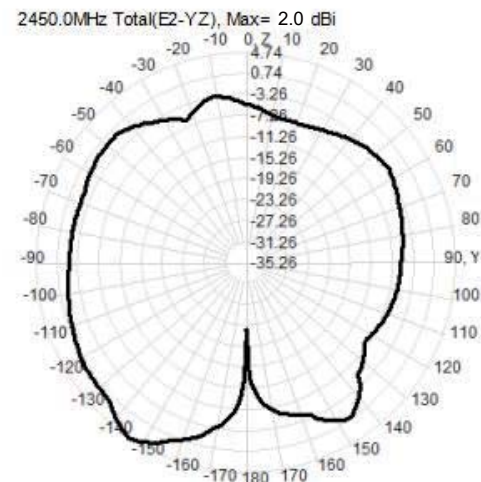
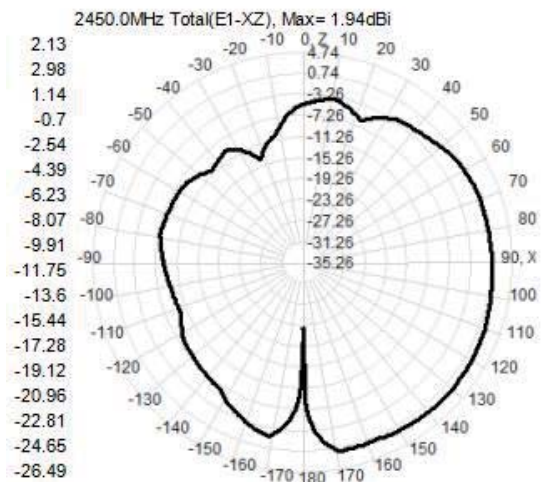
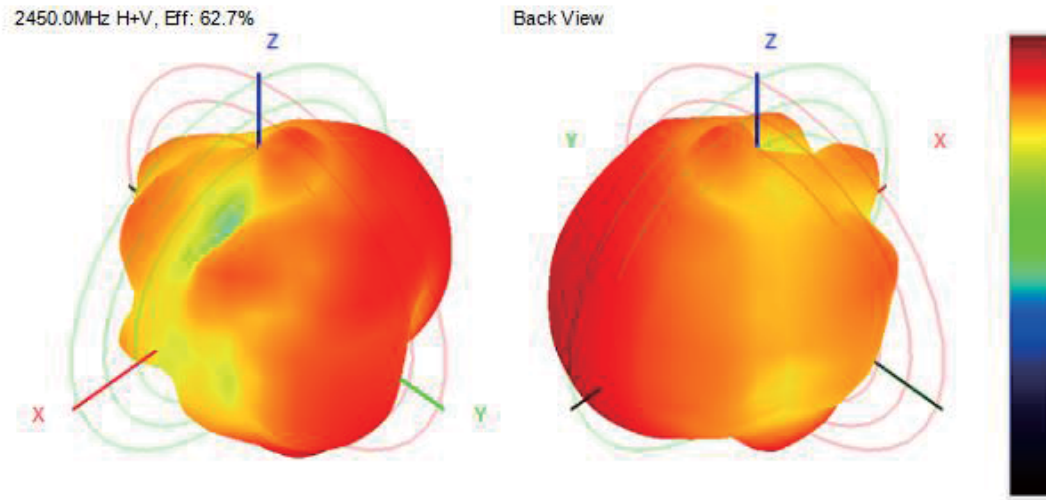
六. 增益& 3D苹果图

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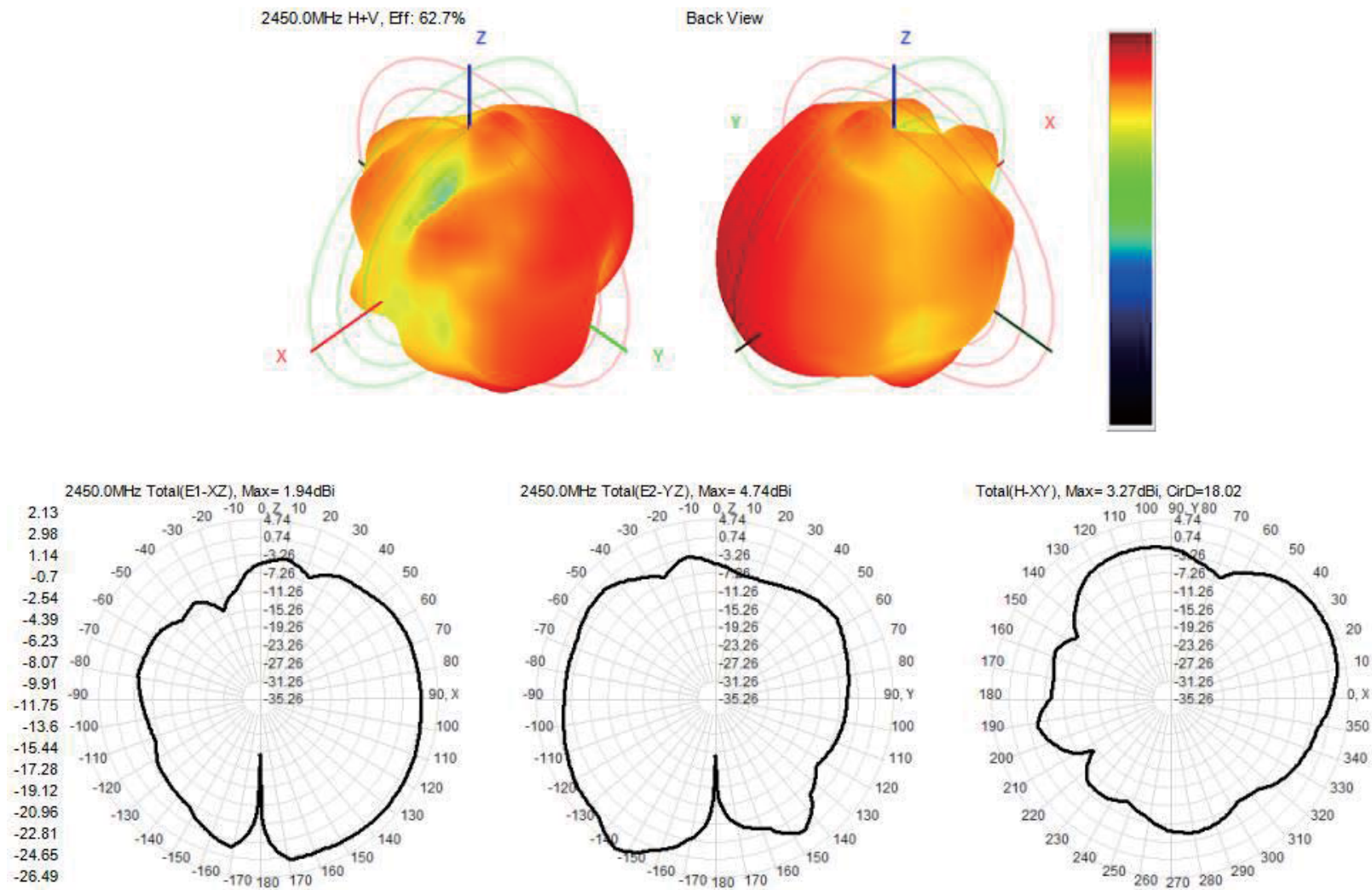




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WiFi增益 3D苹果图 3D radiation pattern diagram





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七. GPS--NC

频率范围 Frequency Range	1575.42MHZ
输入阻抗 Impedance	50 Ω
驻波比 Swr	2.03
回波损耗 Log Mag	-9.35
史密斯 Smith	98.83 Ω
增益 Gain	1.97
极化方式 Polarization	垂直/水平
辐射方向 Radiation	全向
高度 Height	50mm
接头 Termination	8801
天线材料 Radome Material	橡皮天线
天线颜色 Radome Color	黑色



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谢 谢

如有疑问，请电话沟通

RF工程师:赵红

手机: 13960213591

邮箱: gentong512@163.com

日期: 2025.06.23

ADD: 福建省泉州南安市大霞美镇国家大学科技园福建分园7号楼5层

ADD: National University Science and Technology Park, Daxiamei Town, Quanzhou, Fujian Province 5F, Building 7, Fujian Branch Park