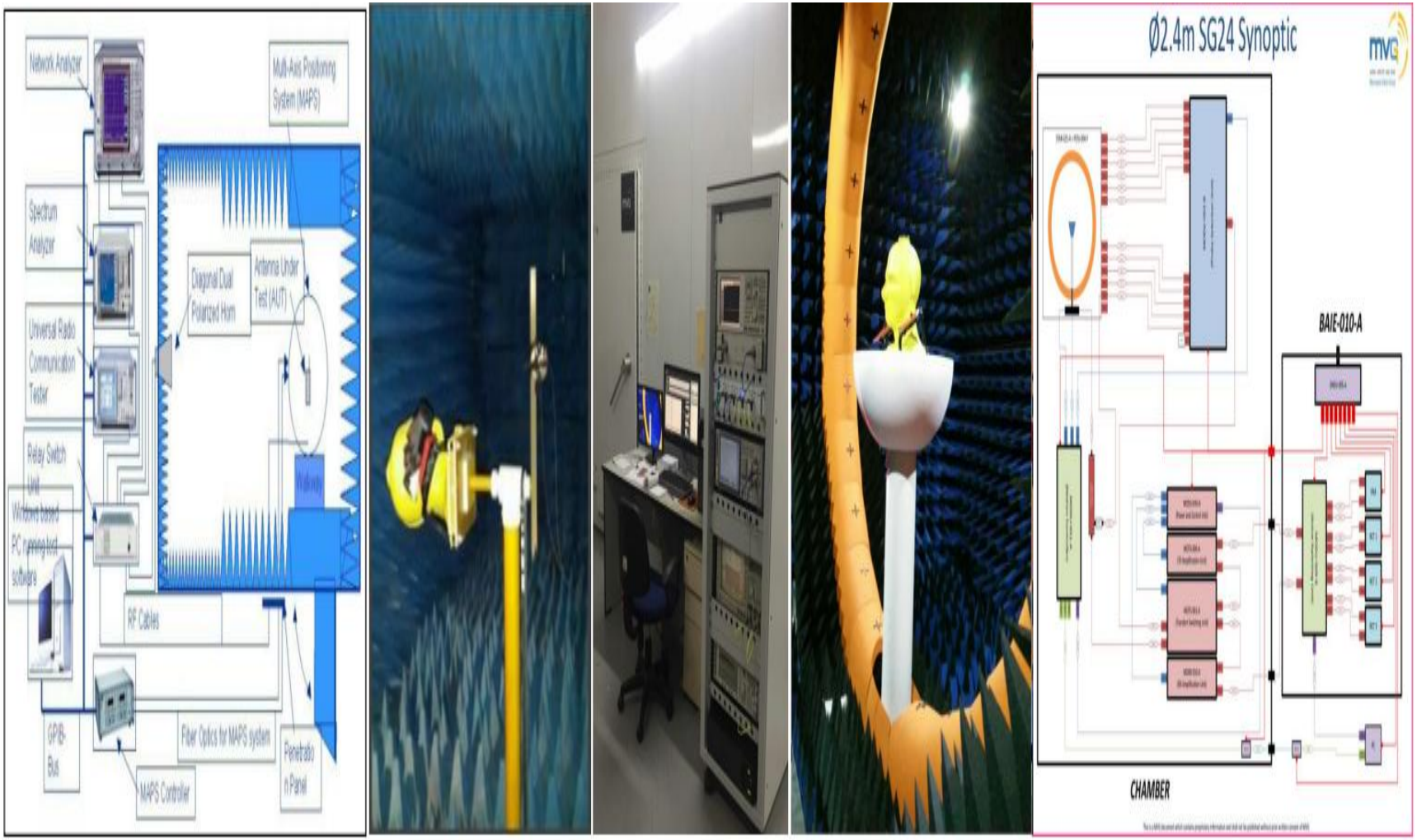
Mulberry tech group LLC
108 Wall st,lakewood,New Jersey,08701,USA
Model No.: F31tx



3座远场3D全电波微波暗室实验室系统，1座MVG SG24LT（Satmio）近场3D微波暗室实验室系统（与国家相关实验室同步）

逻辑分配

开关	频段
RF1	2G:900/850/1800/1900 3G:W2/5 4G:B2/4/5/8/66
RF2	4G:B13
RF3	B12/B17
RF4	4G:B71

Active Report

主天线有源报告（开盖）

Band	CH	TRP	TIS	Band	CH	TRP	TIS
LTE B2	L	16.35		LTE B13	L	16.38	
	M	16.68			M	16.52	
10M	H	16.83	-88.58	10M	H	16.94	-87.49
LTE B4	L	16.15		LTE B17	L	16.75	
	M	16.27			M	16.29	
10M	H	16.61	-88.59	10M	H	16.37	-88.29
LTE B5	L	16.29		LTE B66	L	16.75	
	M	16.87			M	16.94	
10M	H	16.73	-88.69	10M	H	16.65	-90.27
LTE B12	L	16.12		LTE B71	L	16.82	
	M	16.67			M	17.16	
10M	H	16.75	-89.29	10M	H	17.37	-89.67

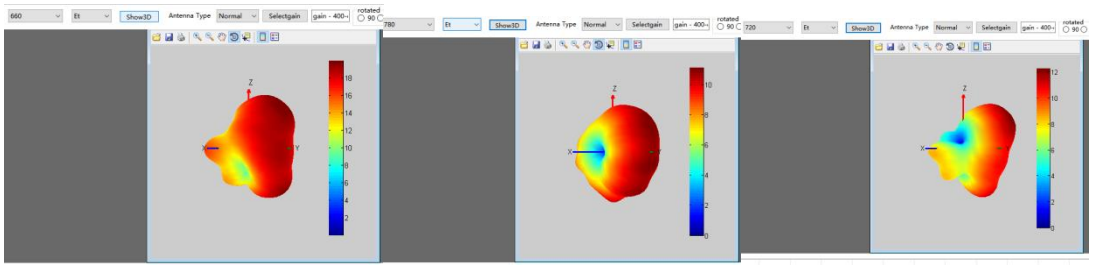
型号		备注	2.4G-WIFI测试				
测试项目		2.4GWIFI测量数值（802.11b） 11Mbps			5.0GWIFI测量数值（802.11g） 54Mbps		
信 道		1	6	11	36	56	165
TRP(dBm)		11.08	11.18	11.62	10.06	10.0	10.27
TIS(dBm)				-80.4			-72.36
测试项目		BT测量数值					
信 道		0	39	78			
TRP(dBm)		4.67	5.0	4.81			
TIS(dBm)				-86.55			

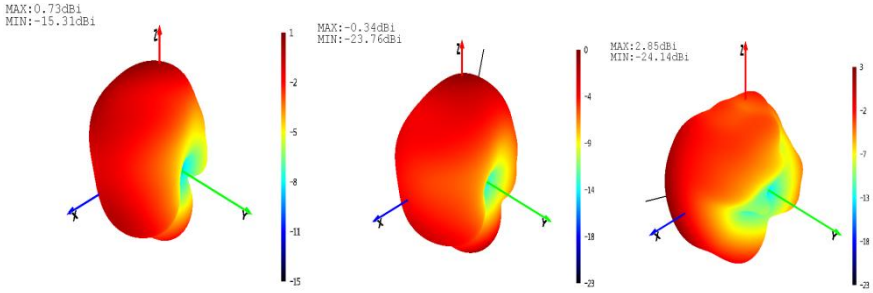
天线增益(Antenna gain)

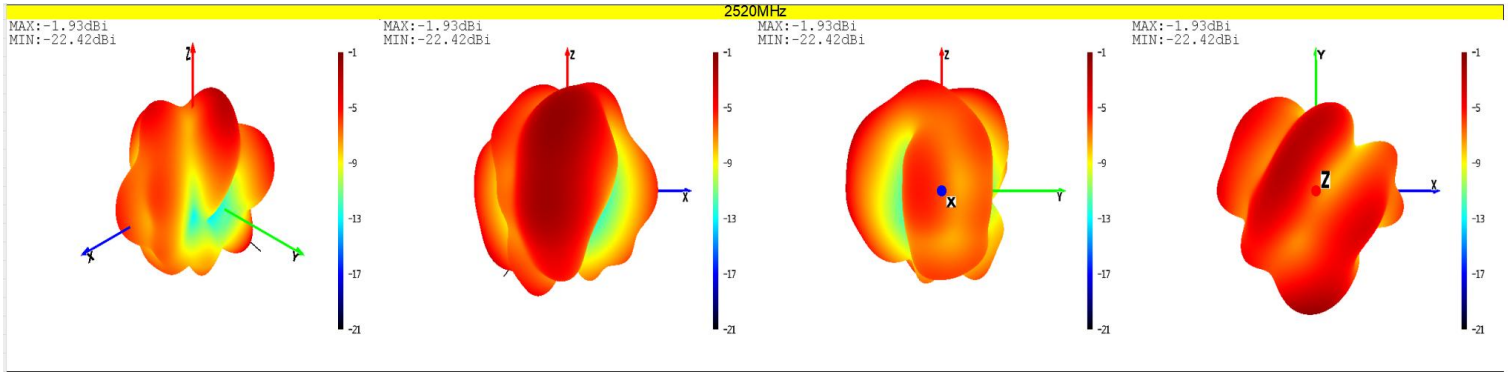
Standard	Band	Frequency	Gain(dbi)
TDD_LTE	TDD_B2	1860	1.24
TDD_LTE	TDD_B4	1720	2.85
TDD_LTE	TDD_B5	840	0.73
FDD_LTE	FDD_B12	720	-8.62
FDD_LTE	FDD_B13	780	-7.88
FDD_LTE	FDD_B17	720	-8.62
FDD_LTE	FDD_B66	1720	2.85
FDD_LTE	FDD_B71	660	-8.93
FDD_LTE	FDD_B7	2520	-1.93
WCDMA	WCDMA_B2	1860	1.24
WCDMA	WCDMA_B5	840	0.73
GSM	GSM850	840	0.73
GSM	GSM900	900	-0.34
GSM	DCS1800	1720	2.85
GSM	PCS1900	1860	1.24

5G WIFI		5100	0.42
5G WIFI		5300	0.87
5G WIFI		5600	1.72
5G WIFI		5800	2.85
2.4G WIFI		2450	3.88
BT		2450	3.88
GPS		1575	2.82

Main antenna apple map

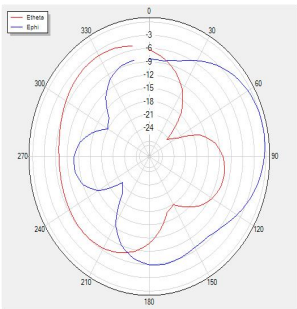




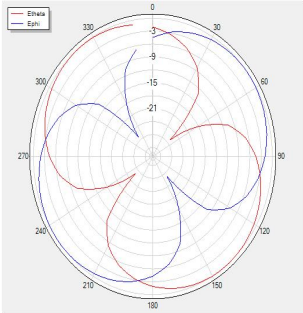


（Main antenna） PolarGraphs/EtotalGraphs

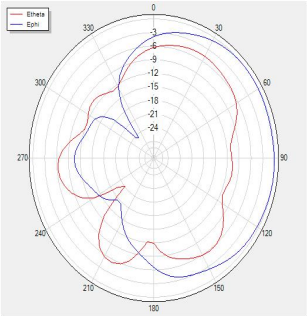
H Theta=90 freq=660MHz



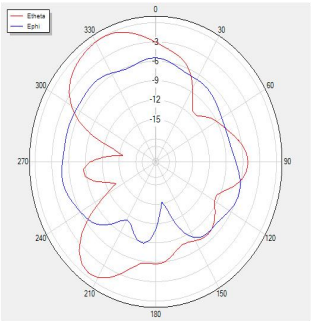
H Theta=0 freq=660MHz



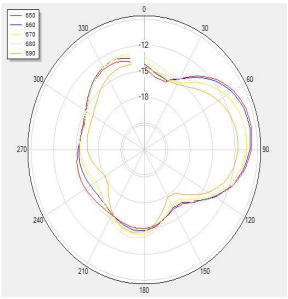
V Phi=90 freq=660MHz



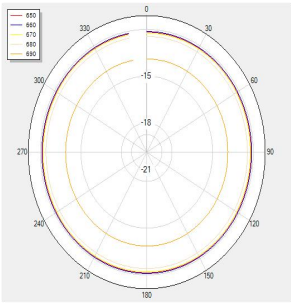
V Phi=0 freq=660MHz



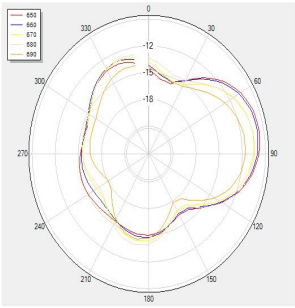
H Theta=90



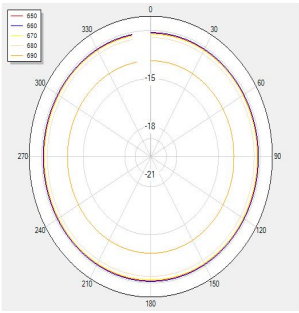
H Theta=0



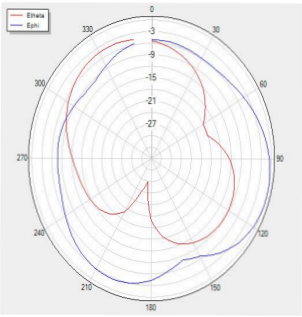
H Theta=90



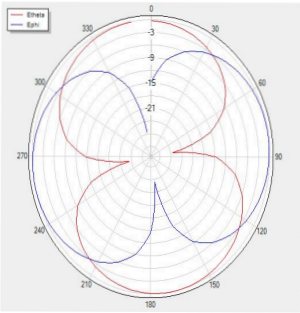
H Theta=0



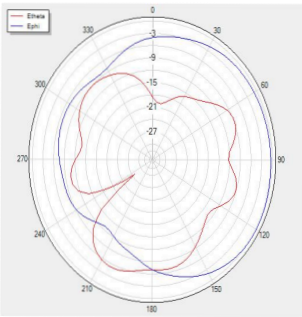
H Theta=90 freq=720MHz



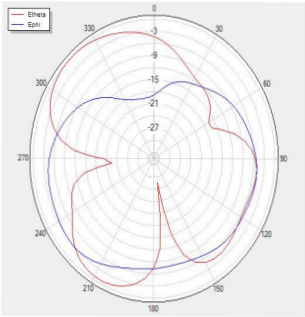
H Theta=0 freq=720MHz



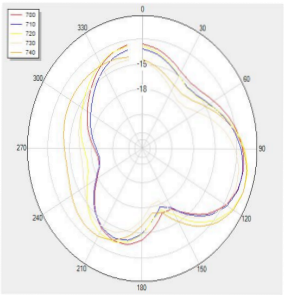
V Phi=90 freq=720MHz



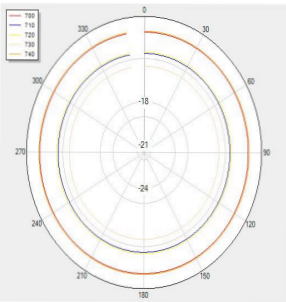
V Phi=0 freq=720MHz



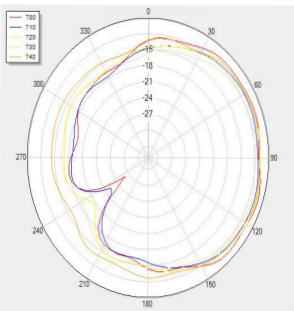
H Theta=90



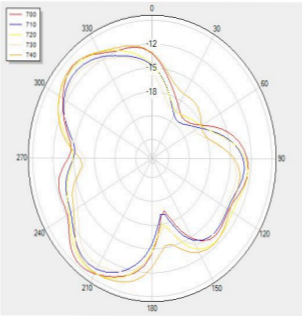
H Theta=0



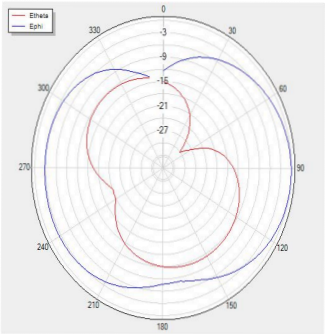
V Phi=90



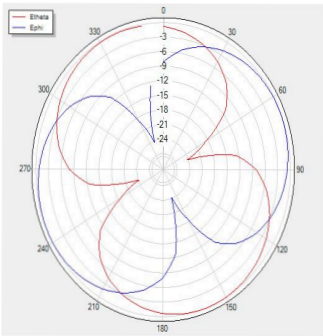
V Phi=0



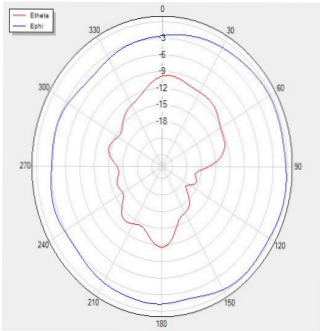
H Theta=90 freq=780MHz



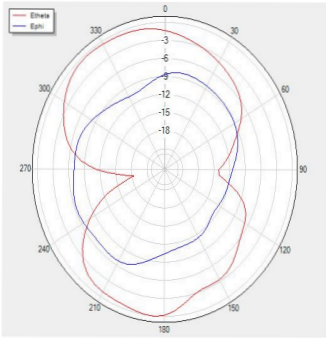
H Theta=0 freq=780MHz



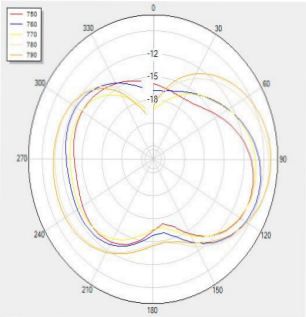
V Phi=90 freq=780MHz



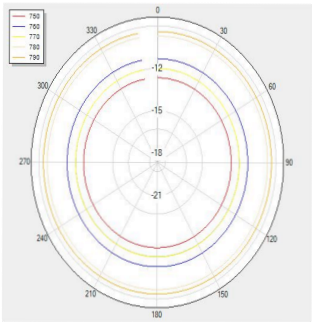
V Phi=0 freq=780MHz



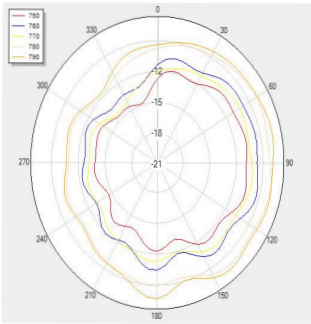
H Theta=90



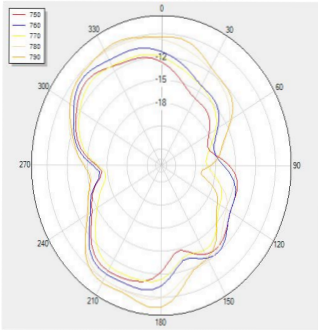
H Theta=0



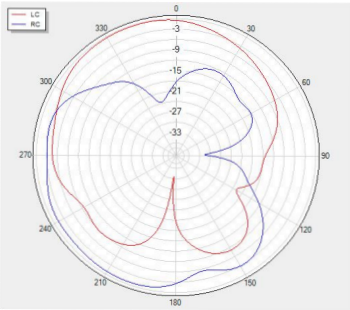
V Phi=90



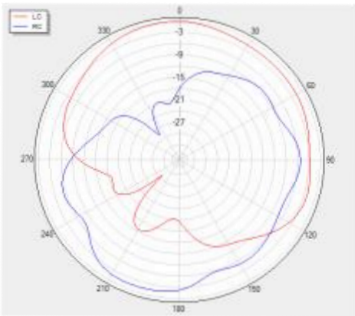
V Phi=0



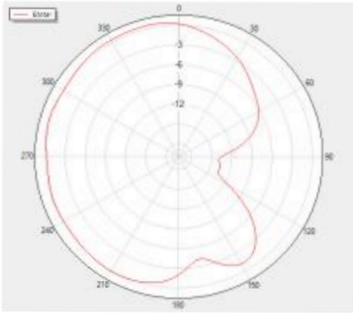
Phi=90 freq=840MHz



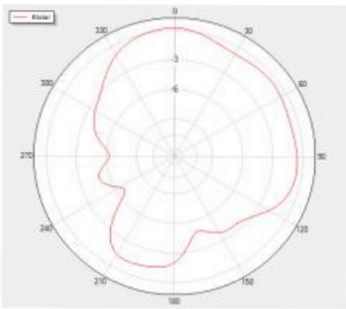
Phi=0 freq=840MHz



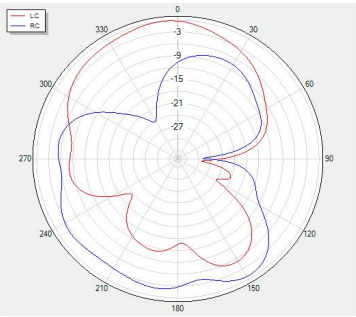
Phi=90 Freq=840MHz



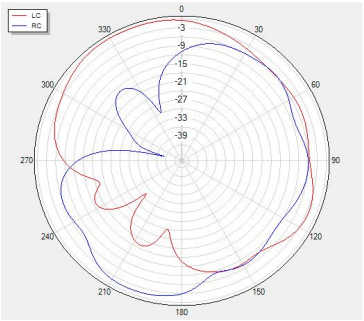
Phi=0 Freq=840MHz



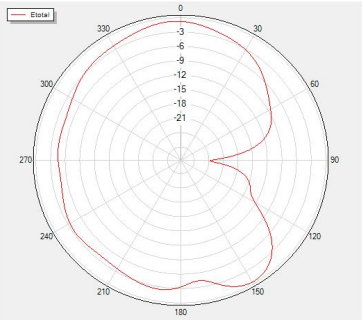
Phi=90 freq=900MHz



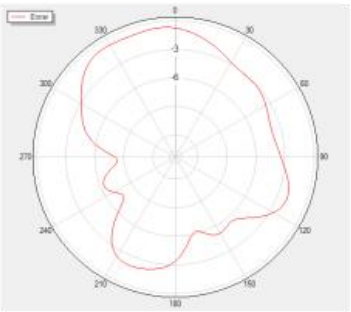
Phi=0 freq=900MHz



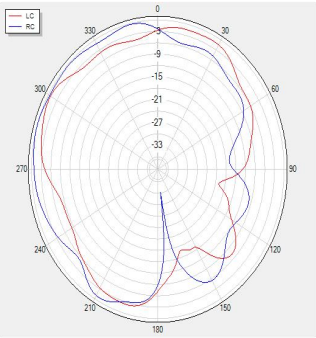
Phi=90 Freq=900MHz



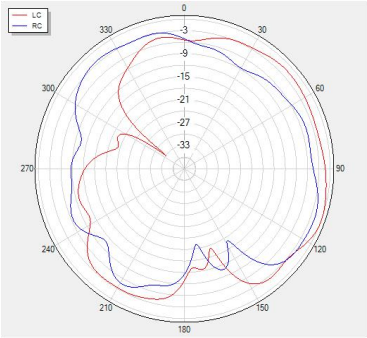
Phi=0 Freq=900MHz



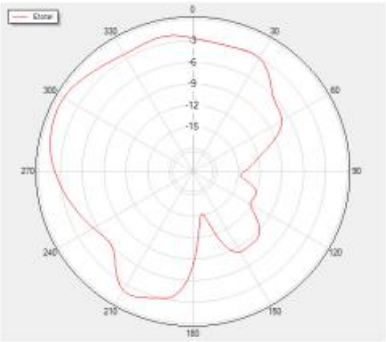
Phi=90 freq=1720MHz



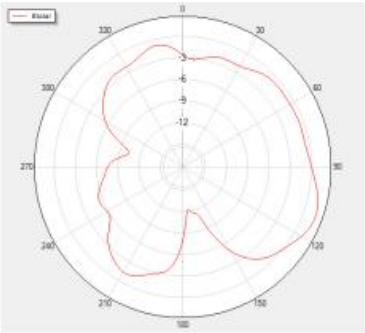
Phi=0 freq=1720MHz



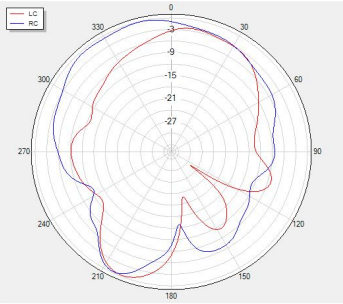
Phi=90 Freq=1720MHz



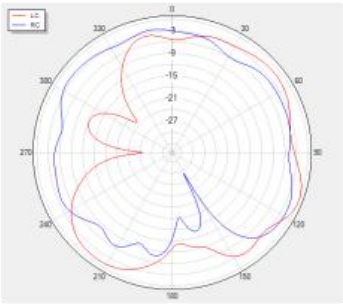
Phi=0 Freq=1720MHz



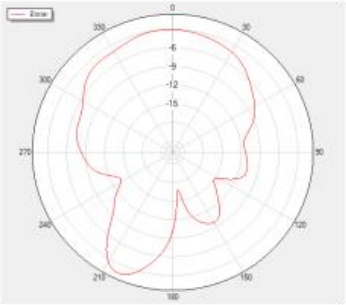
Phi=90 freq=1860MHz



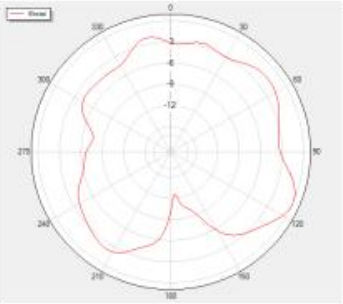
Phi=0 freq=1860MHz



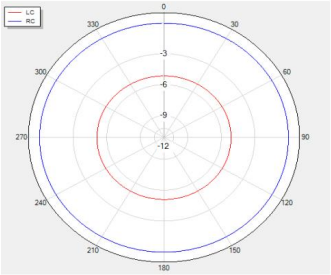
Phi=90 Freq=1860MHz



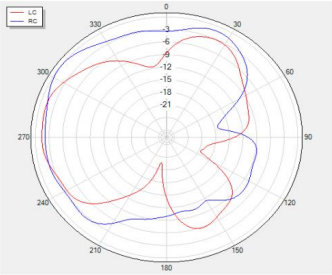
Phi=0 Freq=1860MHz



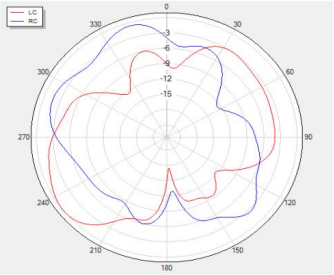
Theta=0 freq=2520MHz



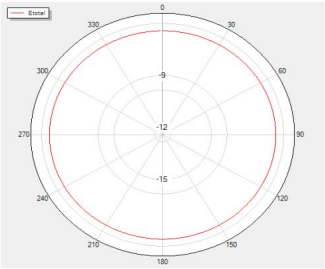
Phi=90 freq=2520MHz



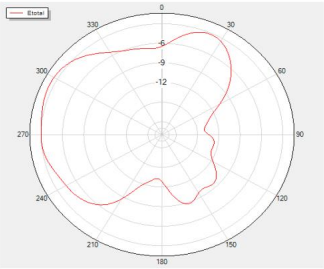
Phi=0 freq=2520MHz



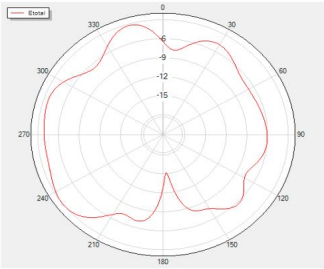
Theta=0 Freq=2520MHz



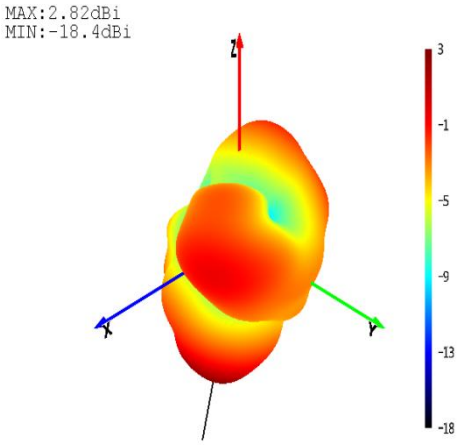
Phi=90 Freq=2520MHz

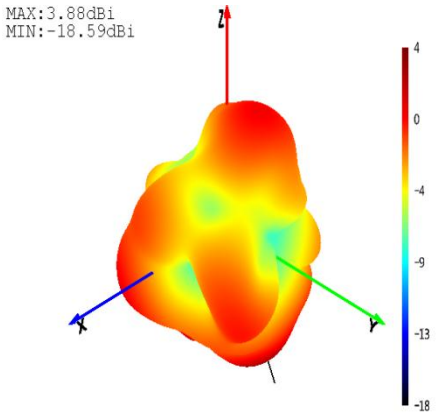


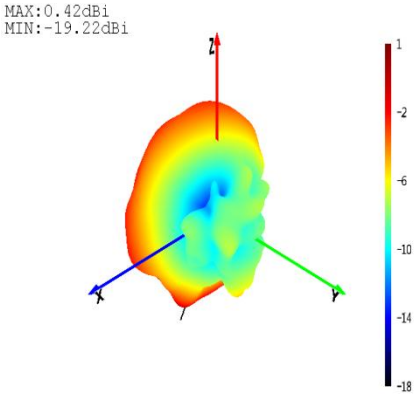
Phi=0 Freq=2520MHz

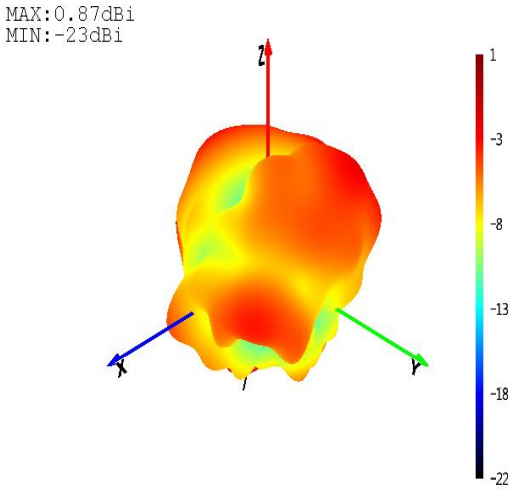


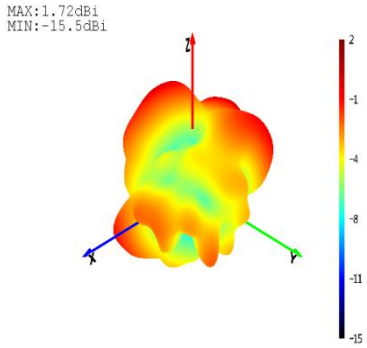
（GPS antenna）+（2.4G/5G WIFI/BT antenna） **apple Map**

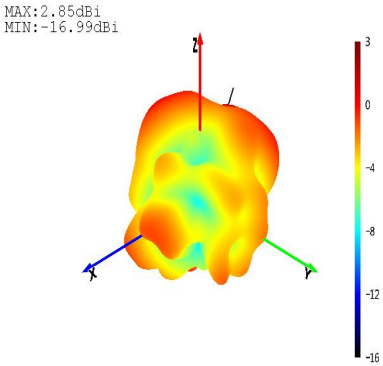




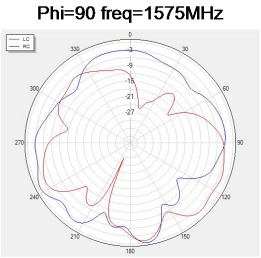


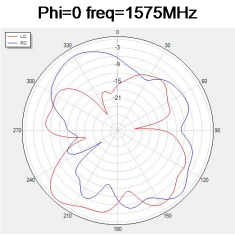


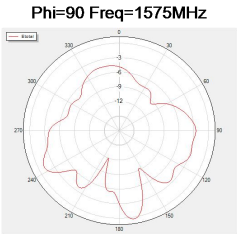


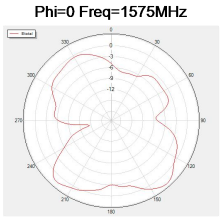


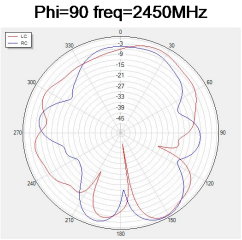
（GPS antenna）+（2.4G/5G WIFI/BT antenna） PolarGraphs/EtotalGraphs

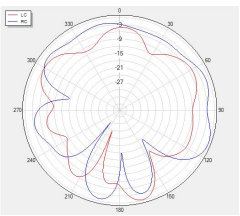


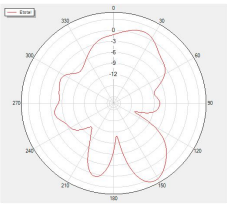


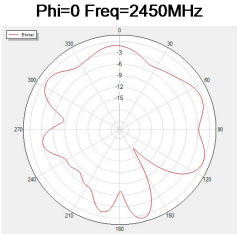




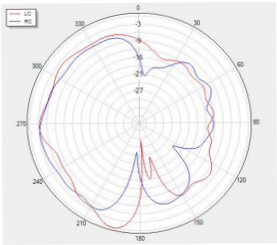




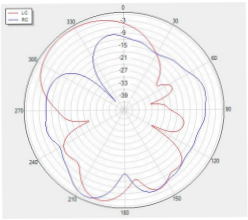




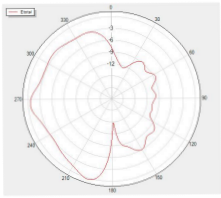
Phi=90 freq=5100MHz



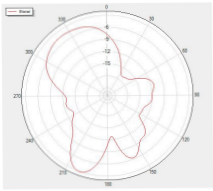
Phi=0 freq=5100MHz



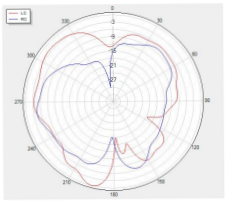
Phi=90 Freq=5100MHz



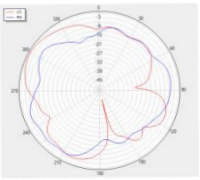
Phi=0 Freq=5100MHz



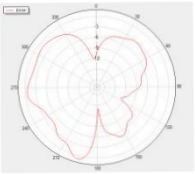
Phi=90 freq=5300MHz



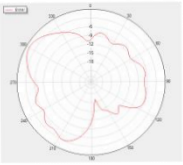
Phi=0 freq=5300MHz



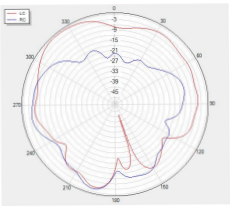
Phi=90 Freq=5300MHz



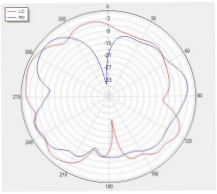
Phi=0 Freq=5300MHz



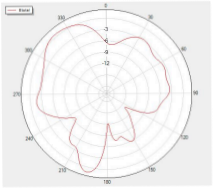
Phi=90 freq=5600MHz



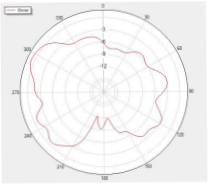
Phi=0 freq=5600MHz



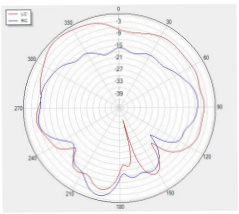
Phi=90 Freq=5600MHz



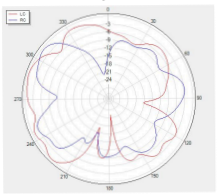
Phi=0 Freq=5600MHz



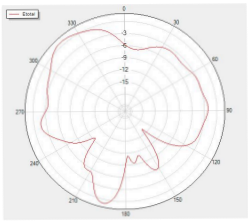
Phi=90 freq=5800MHz



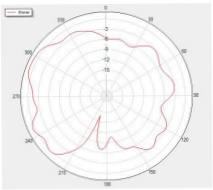
Phi=0 freq=5800MHz

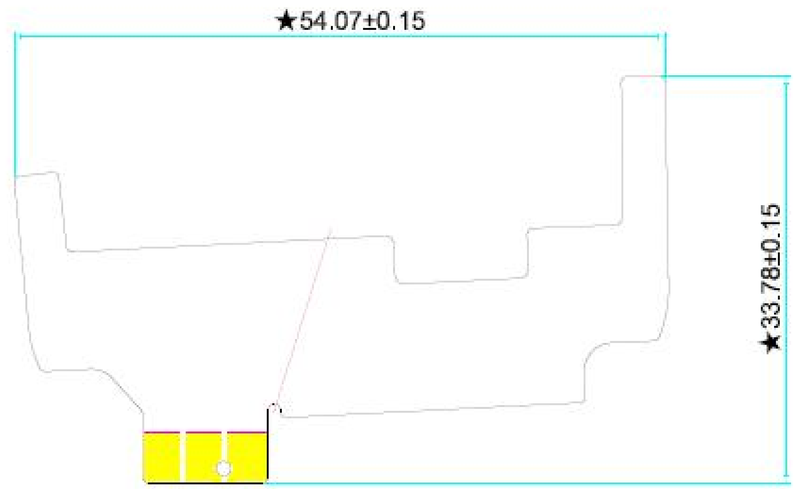


Phi=90 Freq=5800MHz

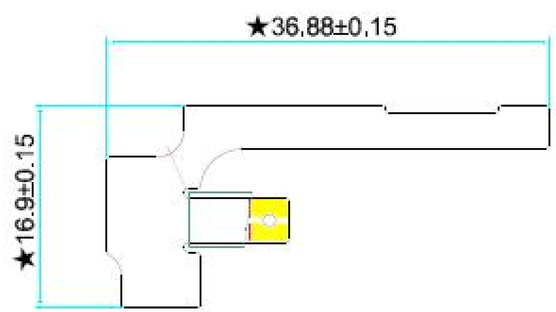


Phi=0 Freq=5800MHz

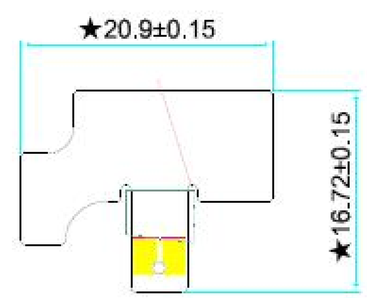




2G/3G/4G MAIN ANT



2G/3G/4G DIV ANT



BT/WIFI ANT