

深圳市八方达通信有限公司

Z5563测试报告

工程：毛宇峥

测试日期：2024-06-11

工程电话:13424326585

天线频段设计

射频	网络模式	GSM+W+LTE+BT+WIFI+GPS	
	频段要求	GSM: B2 B3 B5 B8 WCDMA: B2 B4 B5 LTE: B2 B4 B5 B12 B25 B26 B41 B66 B71	
	通讯天线数量	主天线	GSM+W+LTE
		分集天线	分集
		三合一天线	GPS+WIFI+BT

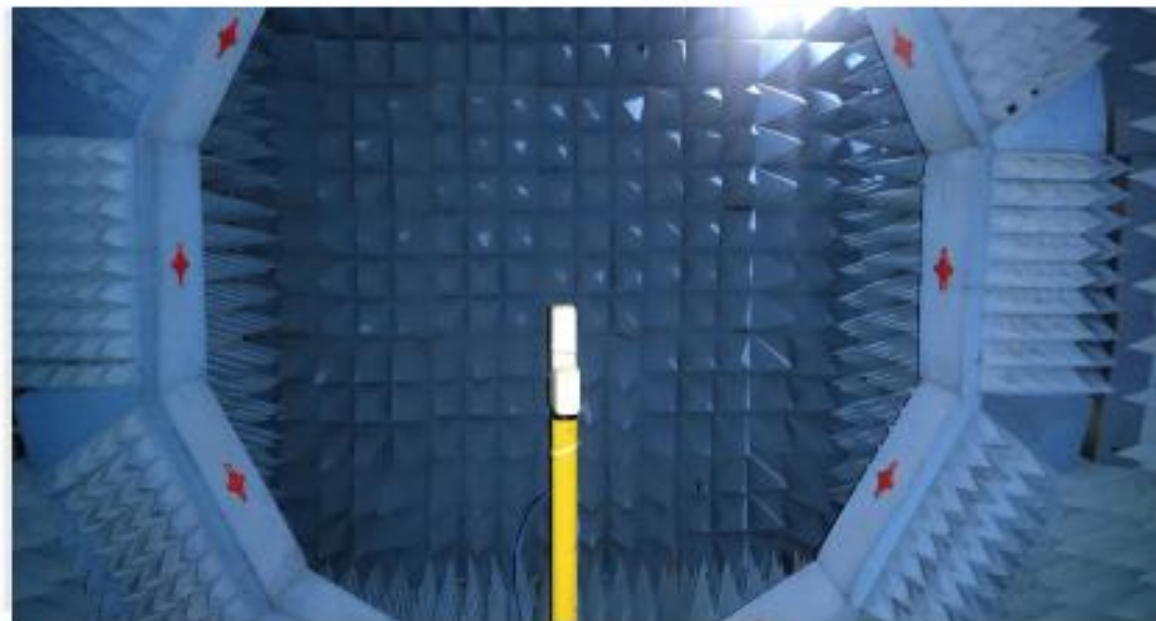
测试简介

测试系统：ETS 3D屏蔽暗室

测试环境：温度 $22^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ，湿度 $50\% \pm 15\%$

测试设备：测试无源数据时，使用惠普E5071B 网络分析仪

测试有源数据时，使用MT8820C/CMW500 4G全功能综测仪



惠普 5071B 8.5GHz 网络分析仪



CMW500全功能综测仪

主天线

正面此区域带胶

正面

背面

此区域带胶

GWB天线

DIV天线

NOTE:

- 打*为重点检测尺寸, 孔位尺寸以实配为准。
- 镀点处理: 镀锌
- 材料为电解铜+PI: (半对1/3)。反面背整块: 3M 9471 LSE胶
- 表面颜色: 哑黑色。标识字符颜色: 天线本色亮色
- 未标公差尺寸, 模具冲出尺寸公差为±0.15, 铜箔线路公差为±0.05
- 标重点的孔公差为±0.08, 未注圆角R=0.30mm, 其它未标公差参见图框内说明
- 表面不能刮伤露铜, 电镀不良, 氧化, 缺口, 压痕, 气泡, 脏点, 偏位等现象。

图例:

- 黄色部分为镀点区
- 线条以内为镀点区
- 线条以外为基材
- 线条以内为基材
- 线条以外为基材

深 圳 市 八 方 达 通 信 有 限 公 司									
0~10		±0.10	0.02	机 种	Z5563	日期	2024-05-31		
10~20		±0.12	0.03	品 名	Main/GWB/DIV天线	设计			
20~40		±0.15	0.02	料 号		结构			
40~50		±0.20	0.04	材 质	电解铜+PI	审核			
			0.02	表面处理		射频			
				外观处理		单位	mm	比例	FIT
						版本	R1A		

深圳市八方达通信有限公司									
		图号		机种	Z5563	日期	2024-05-31		
0~10	±0.10	○	0.02	品名	Main/GNB/DIV天线	设计			
10~20	±0.12	⊗	Ø0.03	料号		结构			
20~40	±0.15	⊥	0.02						
40~50	±0.20	∕	0.04	材质	电解铜+PI	审核	射频		
		√	0.02	模面处理					
	位置	外观处理				单位	mm	比例	FIT
						版本	R/A		

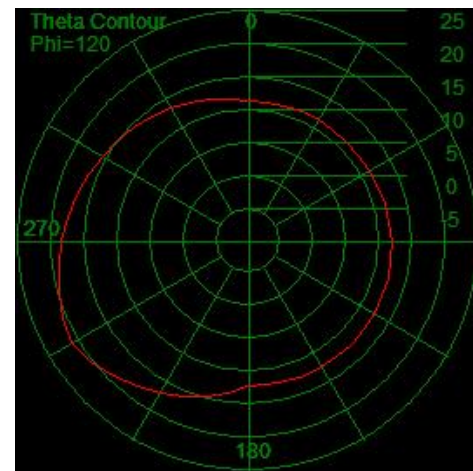
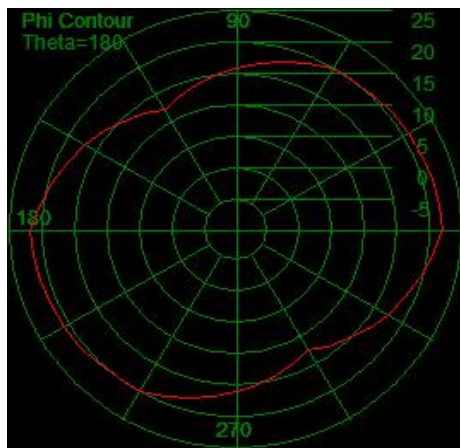
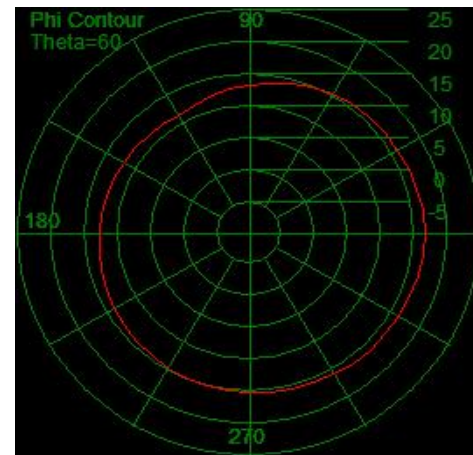
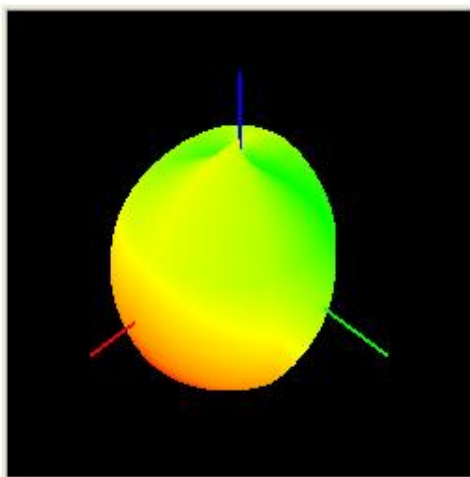
Antenna Gain

2G	Frequency (MHZ)	Gain (MAX)
GSM850	824-894Mhz	-0.36
GSM900	880-960Mhz	-0.41
DCS1800	1710-1880Mhz	-0.32
PCS1900	1850-1990Mhz	-0.35
3G	Frequency (MHZ)	Gain (MAX)
W-B2	1850-1990Mhz	-0.35
W-B4	1710-2155Mhz	-0.31
W5-B5	824-894Mhz	-0.36

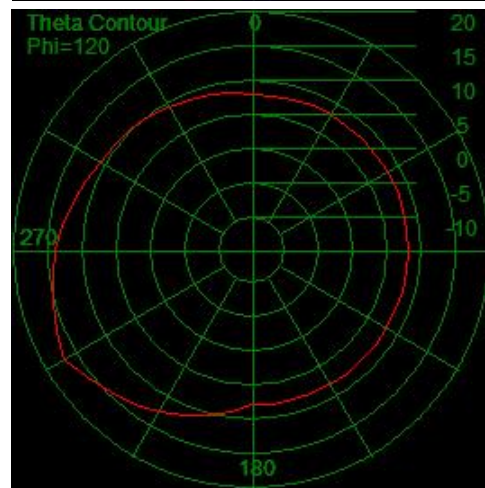
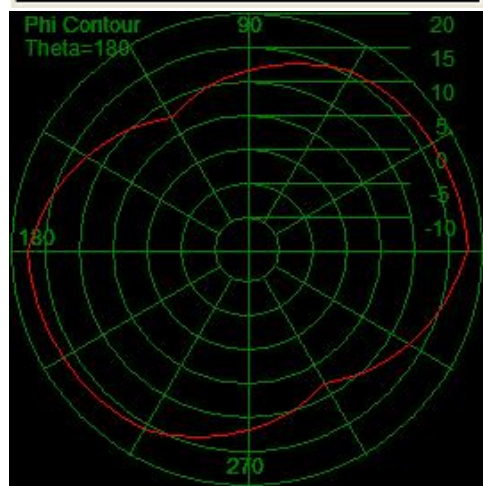
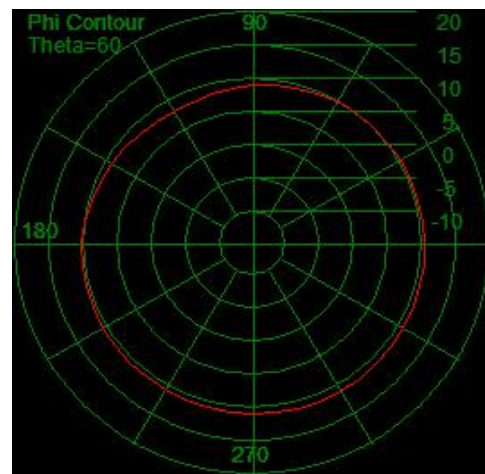
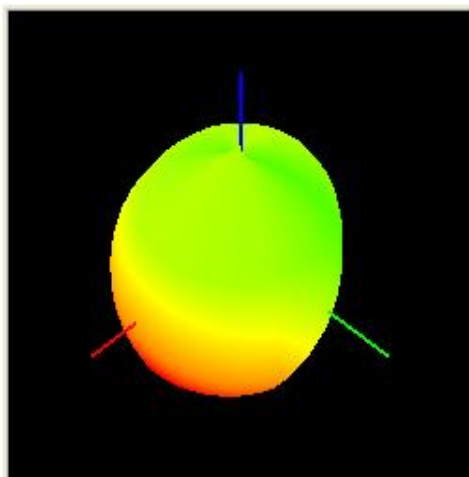
Antenna Gain

4G	Frequency (MHZ)	Gain (MAX)
LTE-B2	1850-1990Mhz	-0.35
LTE-B4	1710-2155Mhz	-0.31
LTE-B5	824-894Mhz	-0.36
LTE-B12	698-746Mhz	-0.81
LTE-B25	1850-1995Mhz	-0.35
LTE-B26	814-894Mhz	-0.36
LTE-B41	2500-2690Mhz	0.16
LTE-B66	1710-2200MHZ	-0.31
LTE-B71	617-697.9Mhz	-1.36
2.4G-WIFI	2400-2500Mhz	-0.35
5G-WIFI	5150-5850Mhz	-0.49
BT	2400-2500Mhz	-0.35
GPS	1575Mhz	-0.24

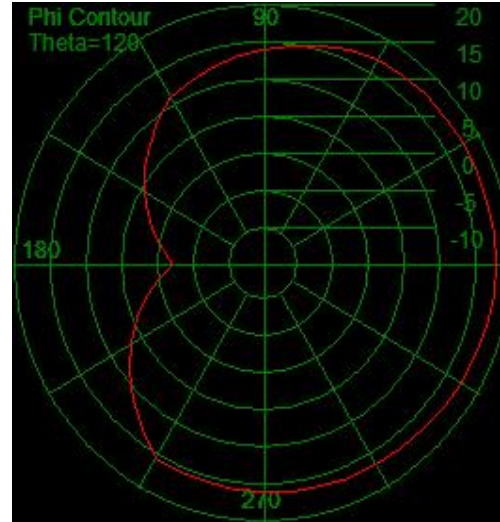
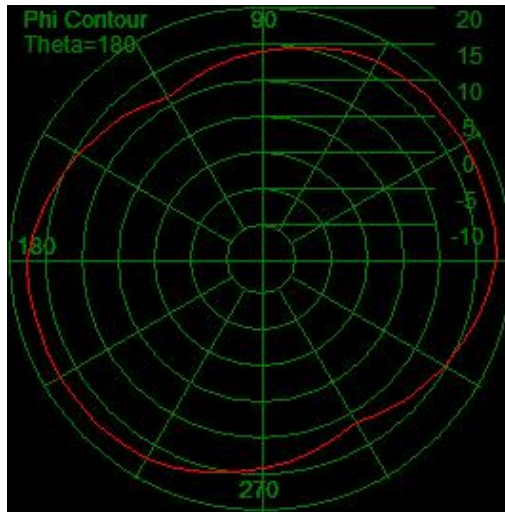
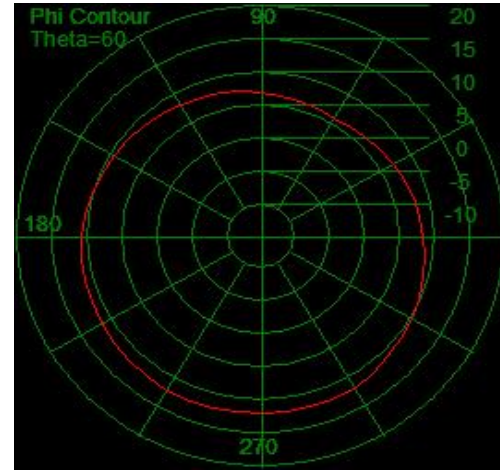
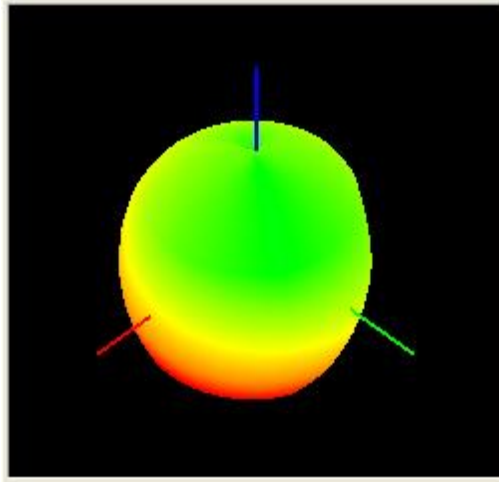
617-697. 9MHz波形图



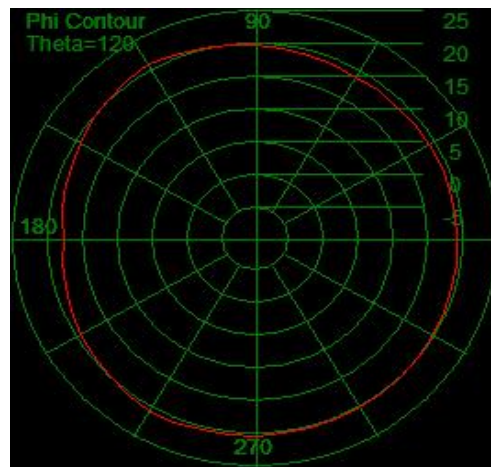
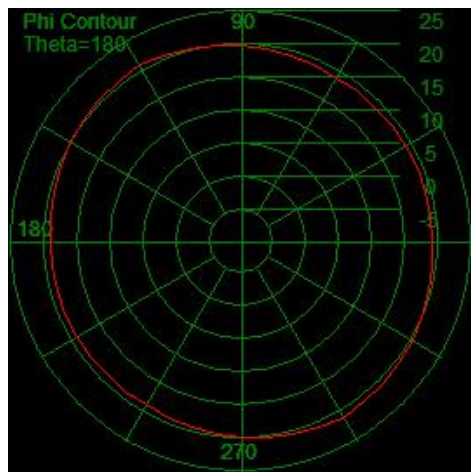
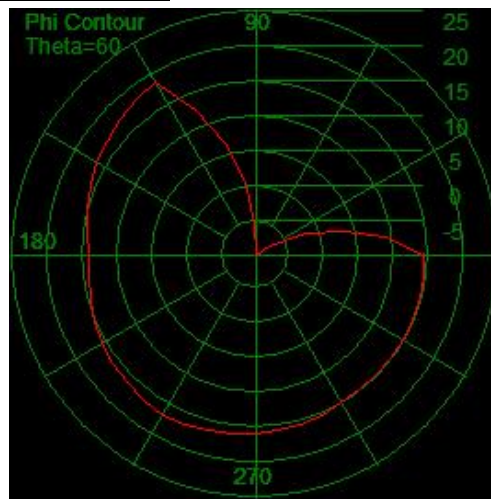
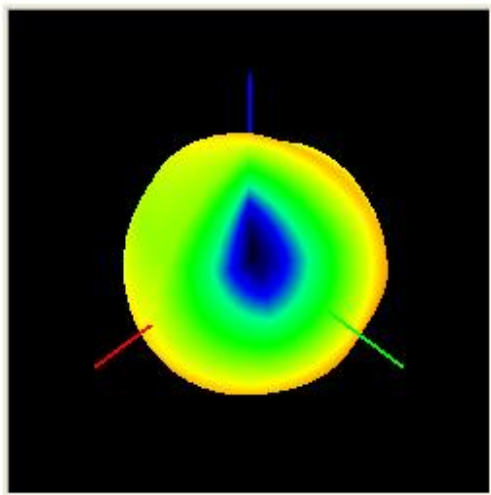
698-798MHz波形图



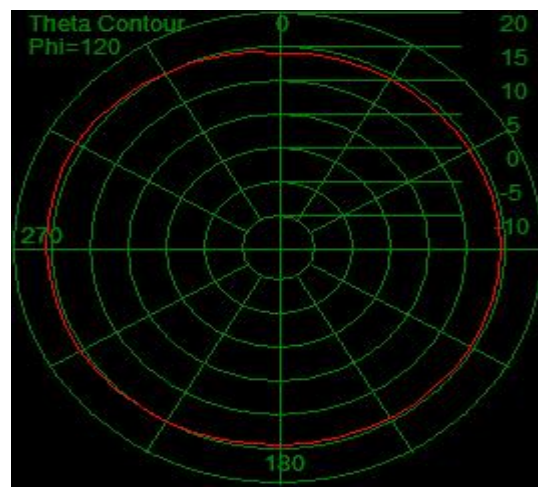
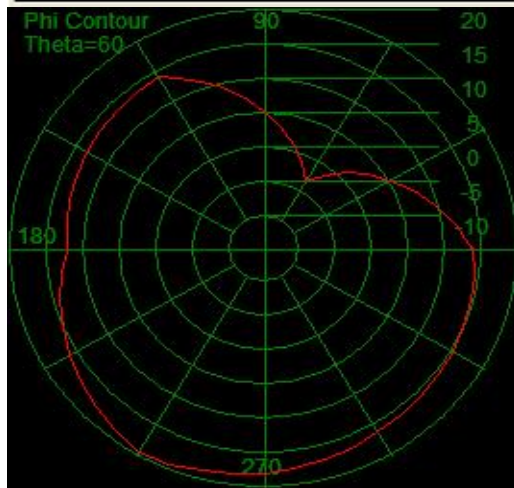
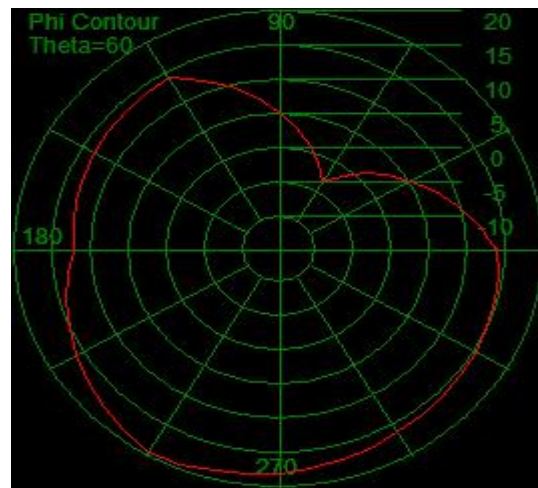
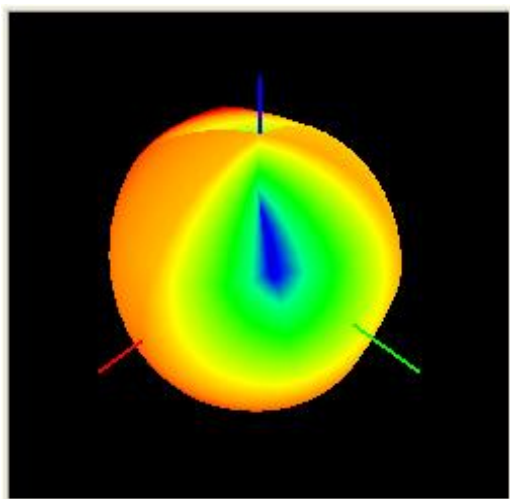
814-894MHz波形图



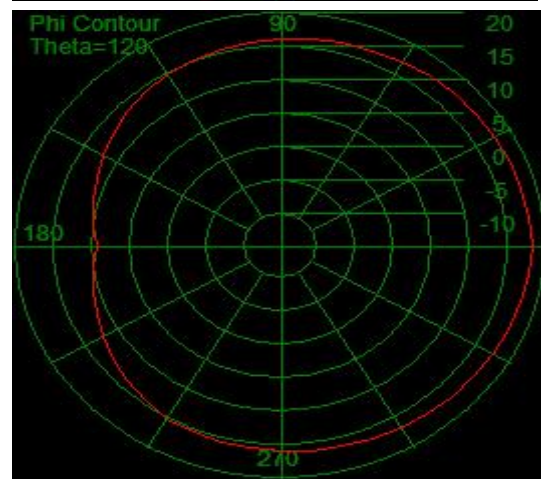
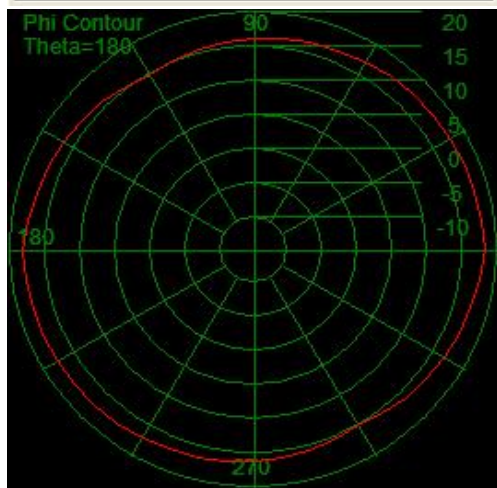
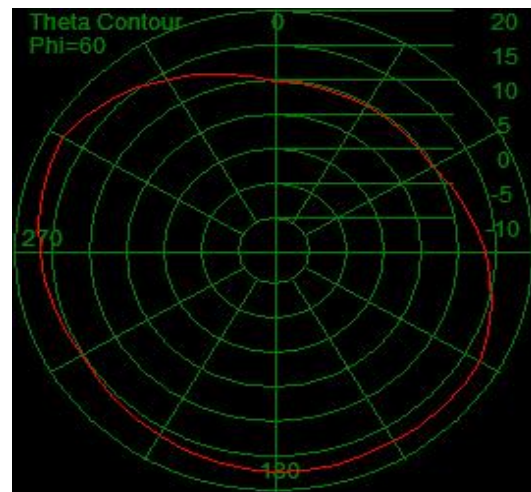
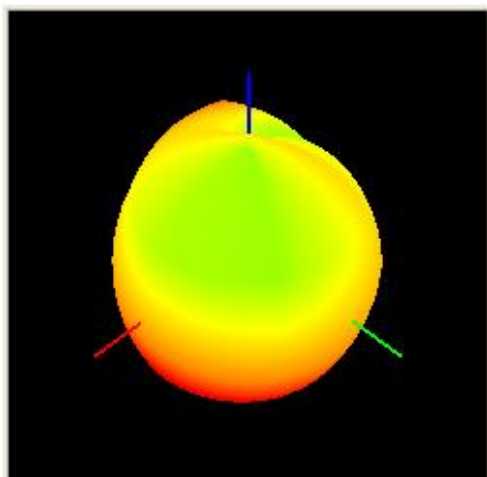
880-960MHz波形图



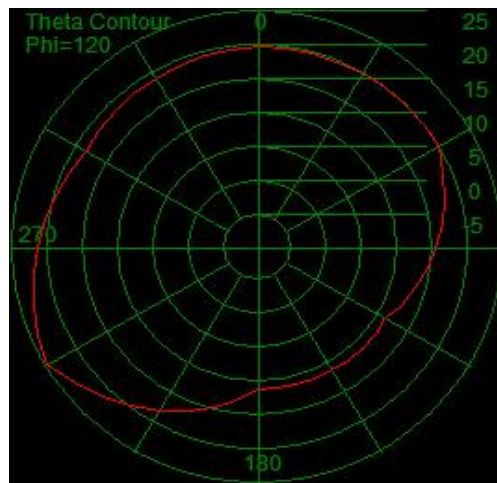
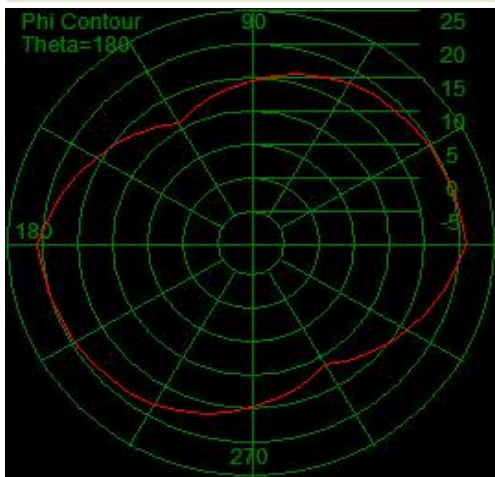
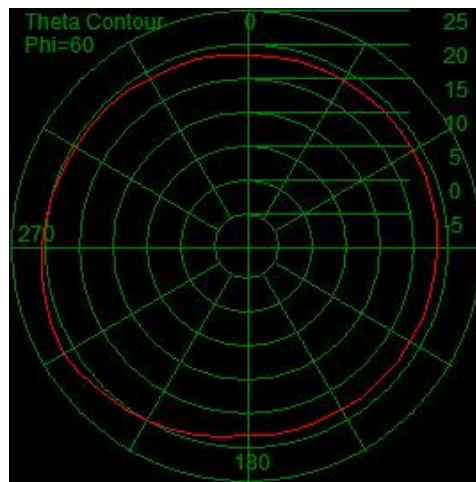
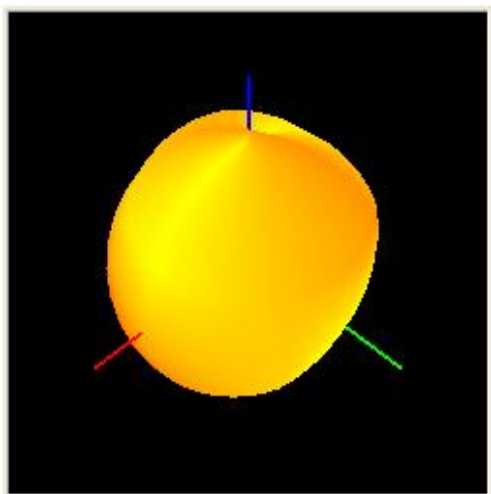
1710-1880MHz波形图



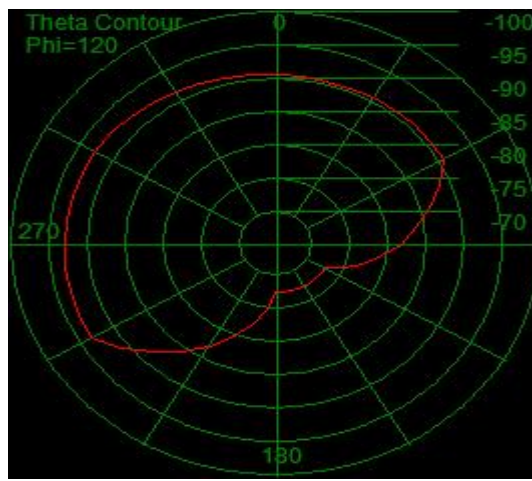
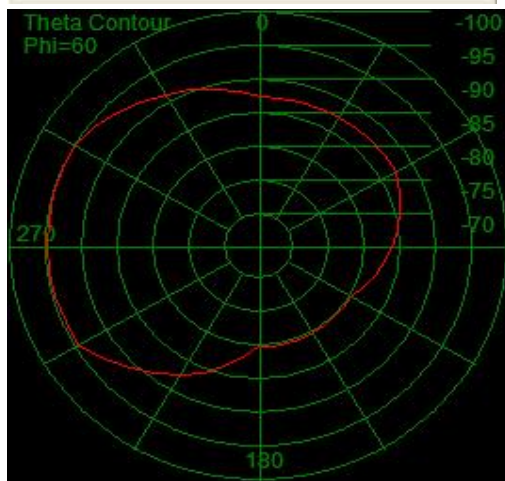
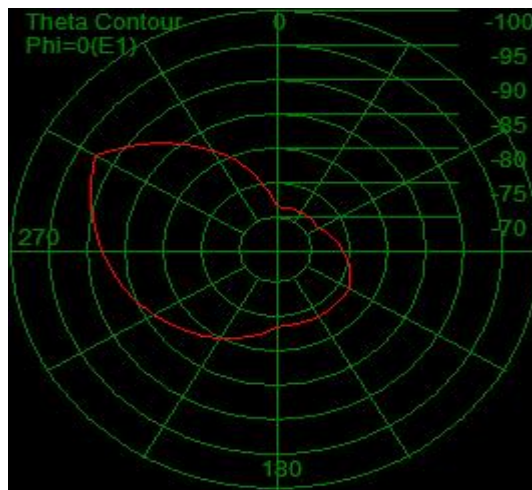
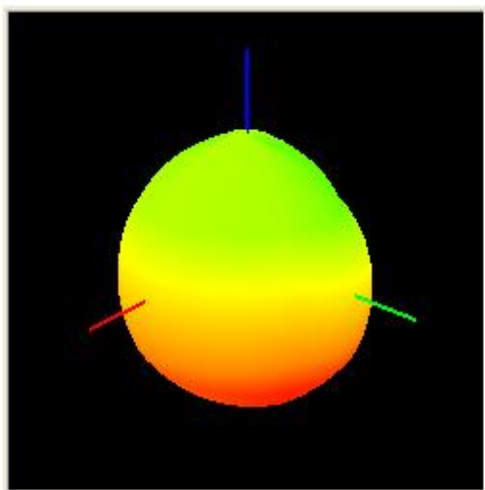
1880-1990MHz波形图



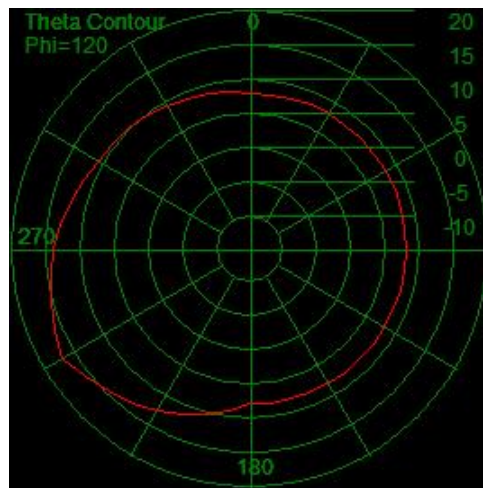
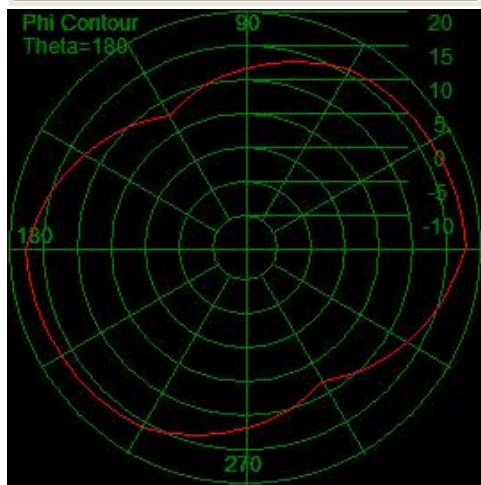
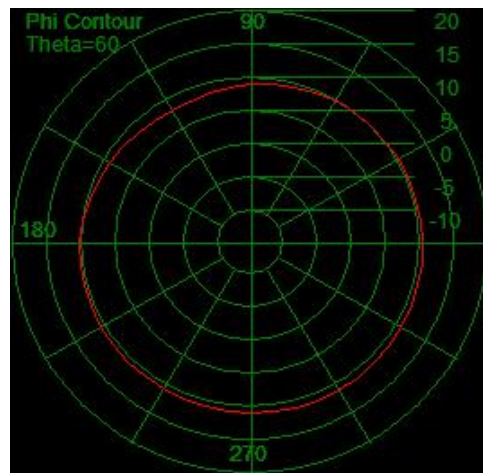
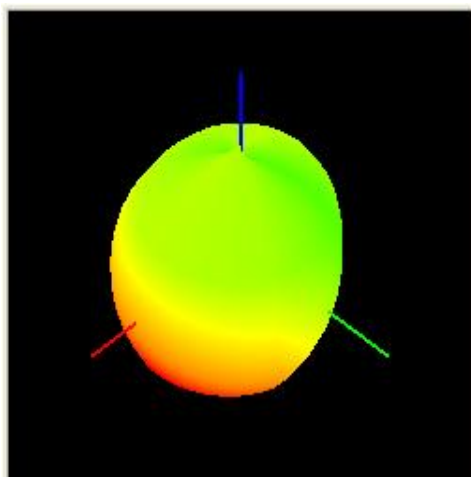
1920-2170MHz波形图



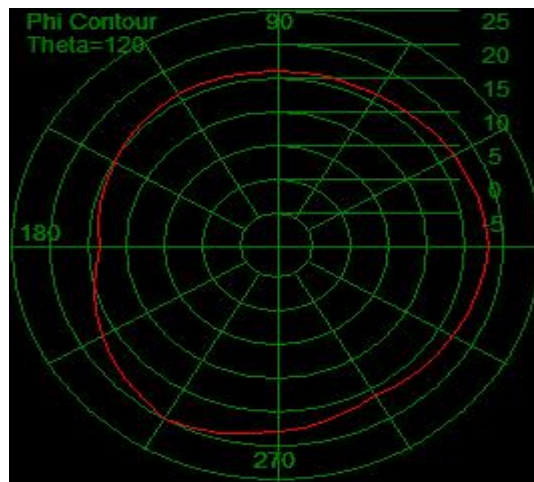
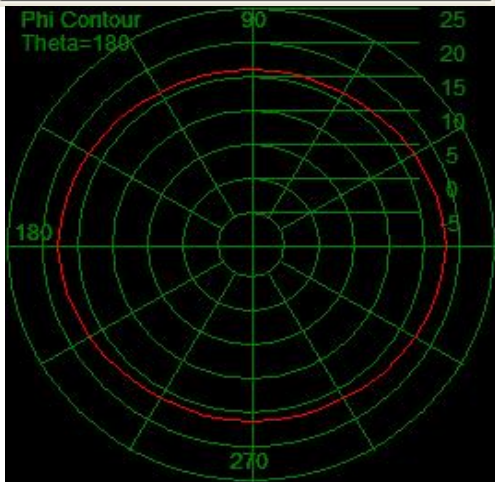
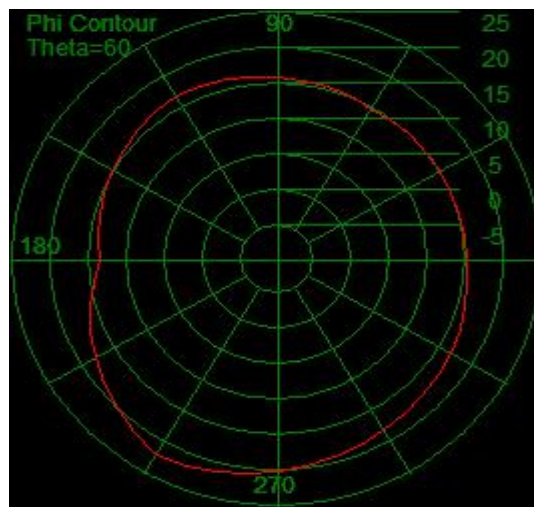
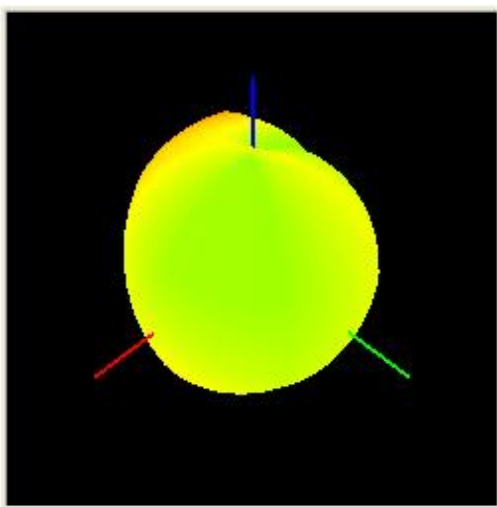
2300-2400MHz波形图



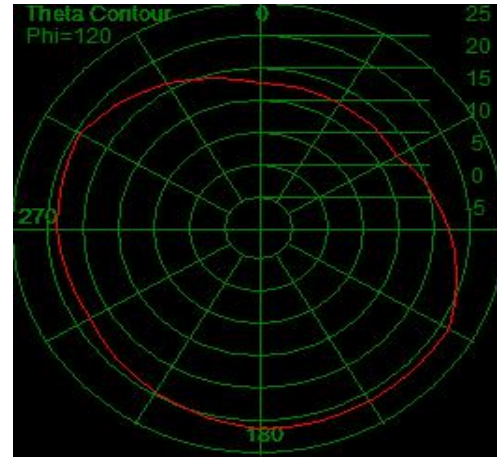
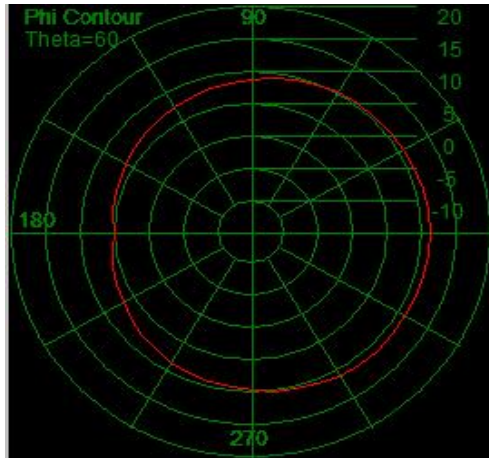
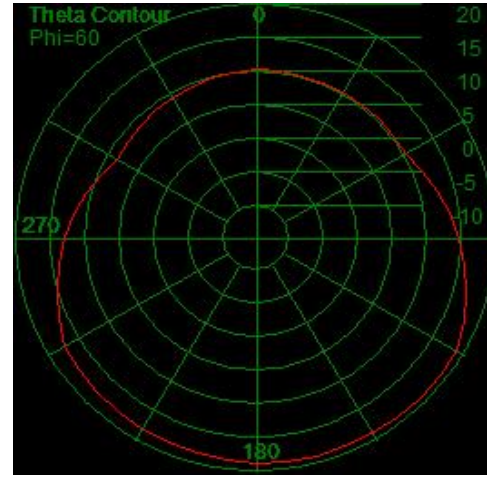
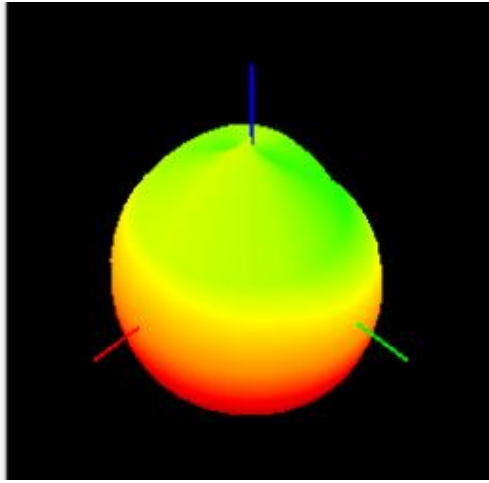
2500-2690MHz波形图



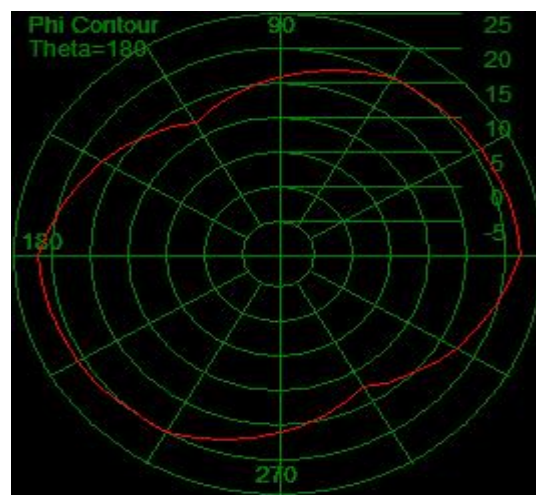
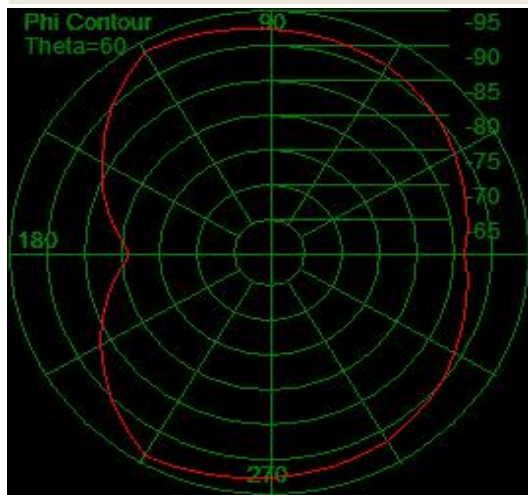
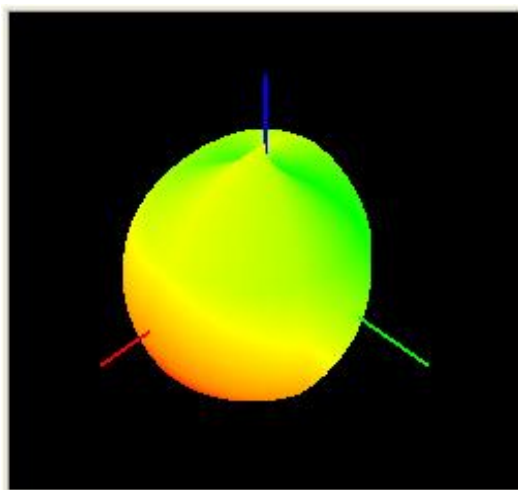
2. 4G-WIFI/BT 2400-2500MHz波形图



5G-WIFI/BT 5150-5850MHz波形图



GPS 1575.42MHz波形图



Introduction to Antenna Information

Z5563		
Antenna type and frequency band	MAIN ANTENNA (PIFA)	2G/3G/4G
	DIV ANTENNA (PIFA)	2G/3G/4G
	GPS/WIFI/BT ANTENNA (PIFA)	L1/2. 4G. 5GWIFI/BT
Antenna materia	FPC	