

QYX_Pro 左右旋天线规格书

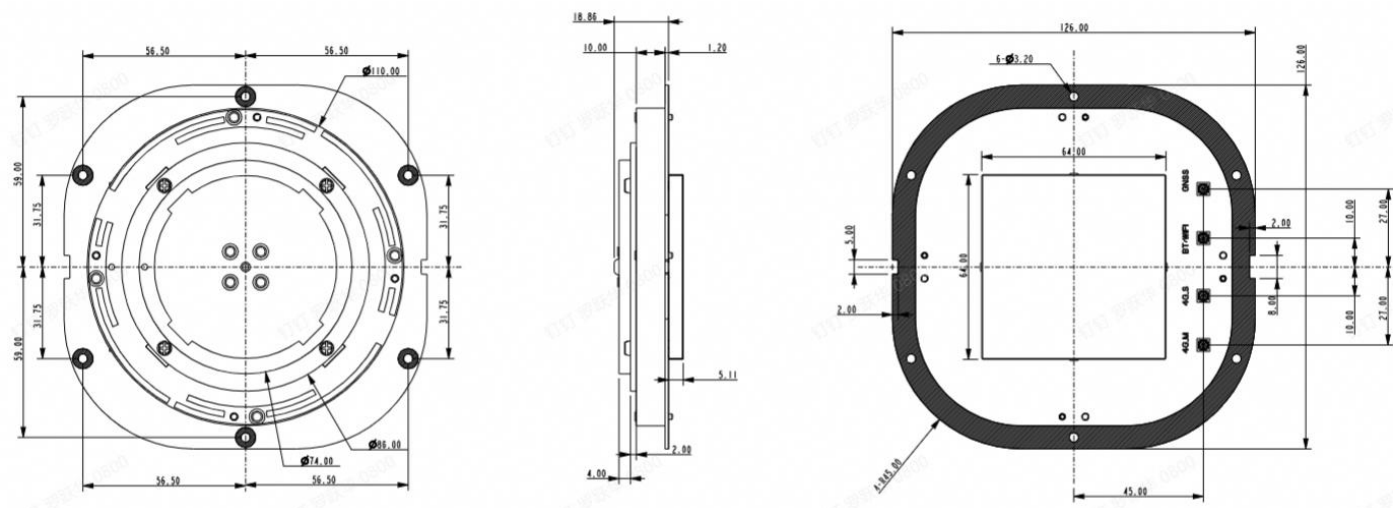
■ 技术特点

- 1. 天线具备四系统 GNSS 全频点、左旋 Lband、双 4G、BT-WiFi 信号接收能力，一体化设计；
- 2. 天线无源部分采用多馈点设计方案，保证相位中心与几何中心的重合，有效提高天线相位中心稳定性, 要求优异的低轴比特性满足多径场景下星基定位的稳定性；
- 3. 天线单元增益高，方向图波束宽，确保各种户外场景的信号接收效果，在一些遮挡较严重的场景下仍能正常搜星；

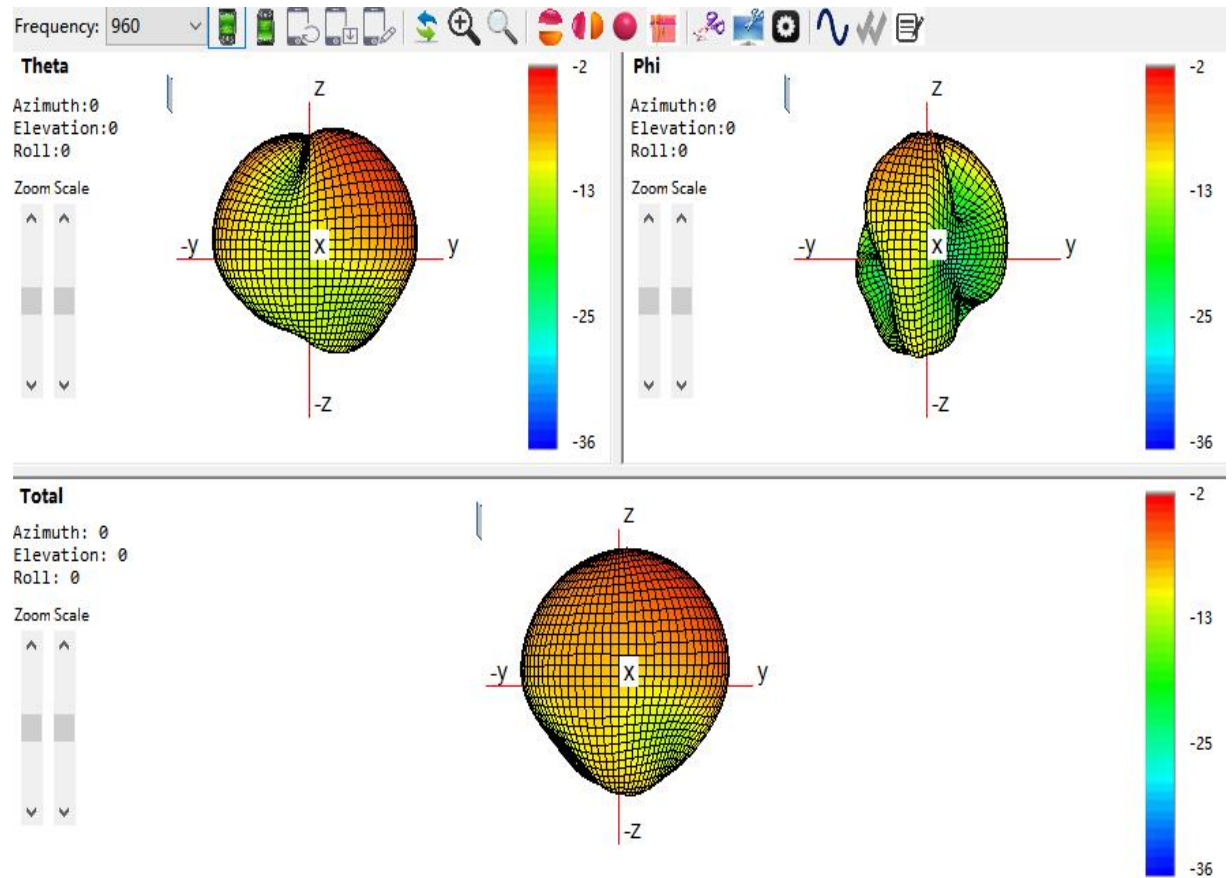
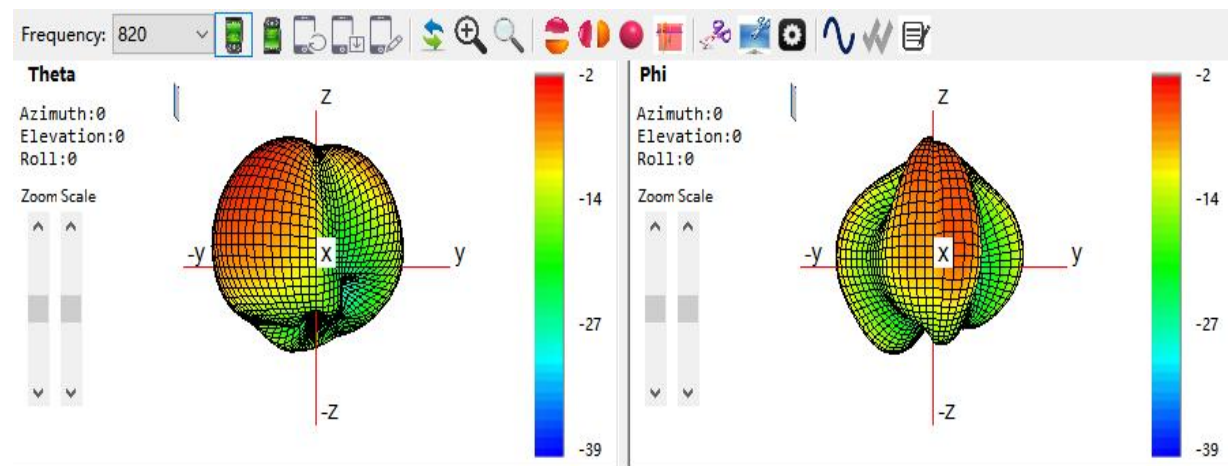
■ 技术指标

天线特性				
工作频段	BDS B1/B2/B3、 GPS L1/L2/L5、 GLONASS G1/G2、 GALILEO E1/E2/E5a/E5b、	Lband: 1525~1550MHz, Fc=1544MHz	2G/3G/4G: 824~960MHz、 1710~2170MHz、 2300~2400MHz、 2550~2655MHz	BT-WIFI: 2402~2482MHz
极化方式	右旋圆极化(RHCP)	左旋圆极化(LHCP)	/	/
增益/效率	仰角 90°增益均值：≥5dBi; 仰角 30°增益均值：≥-2dBi;	仰角 90°增益均值：≥5dBi; 仰角 30°增益均值：≥-2dBi;	Typ: 20~50%	≥50%
输出阻抗	50Ω	50Ω	50Ω	50Ω
VSWR	typ≤2, max<3	≤2	typ≤4	≤2
圆极化轴比	仰角 90°轴比均值：≤1.5dB; 仰角 30°轴比均值：≤2.5dB; 仰角 0°轴比均值：≤5.0dB;	仰角 90°轴比均值：≤1.5dB; 仰角 30°轴比均值：≤2.5dB; 仰角 0°轴比均值：≤5.0dB;	/	/
水平面覆盖范围	360°	360°	360°	360°
相位中心稳定度	≤±2mm	/	/	/
电路特性				
增益	30±2dB	30±2dB	/	/
带内平坦度	≤±1dB	≤±1dB	/	/
带外抑制度	30dB@边频±100MHz 15dB@1544MHz	30dB@边频±50MHz 15dB@1559MHz	/	/
天线增益	2.0dB	2.0dB	2.0dB	2.0dB
工作电压	3.3~12V		/	/
工作电流压	≤50mA		/	/
结构特性				
天线尺寸	见 CAD 和三维图纸			
接口	电路合路共用一个 MMCX-K		MMCX-K	MMCX-K
整机工作环境				
工作温度	-40°~ +85°C			
存储温度	-55°~ +85°C			
湿 度	95%不冷凝			

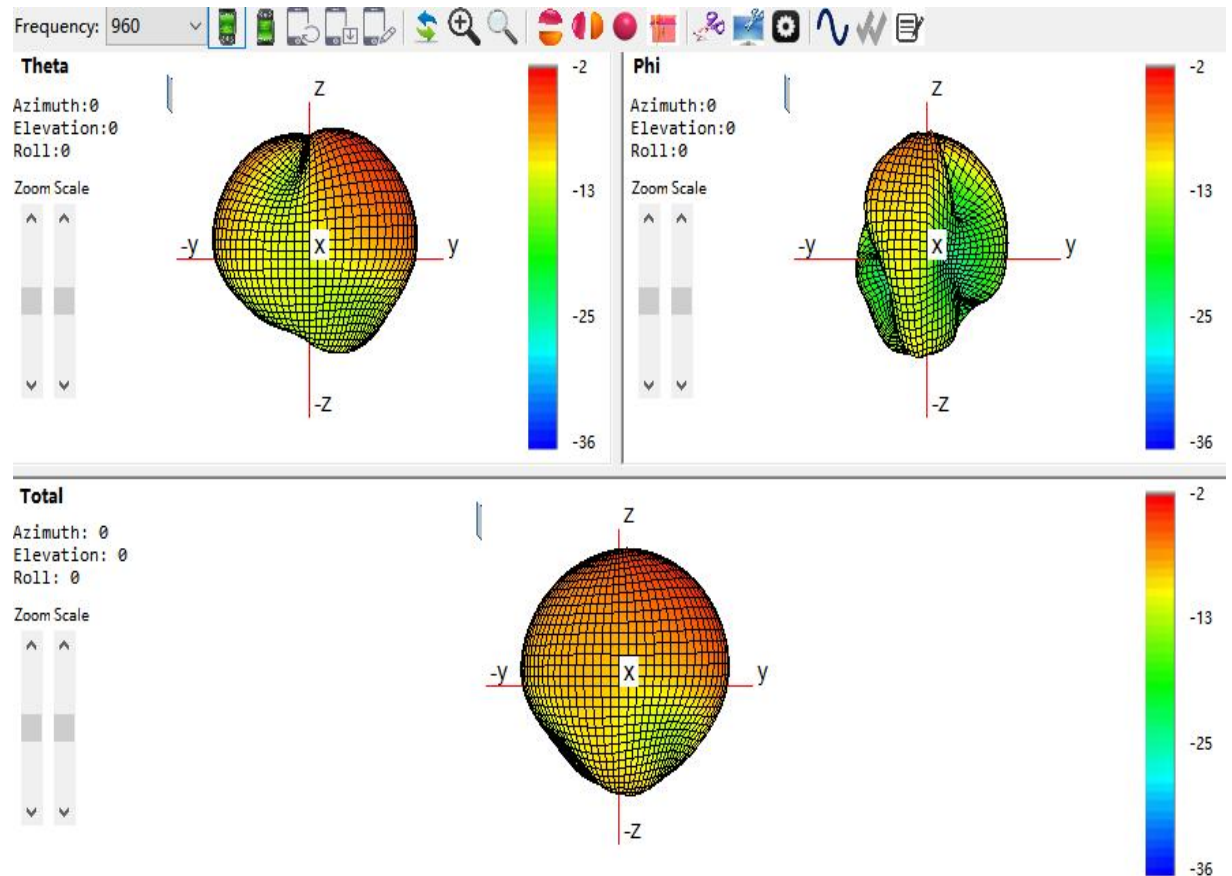
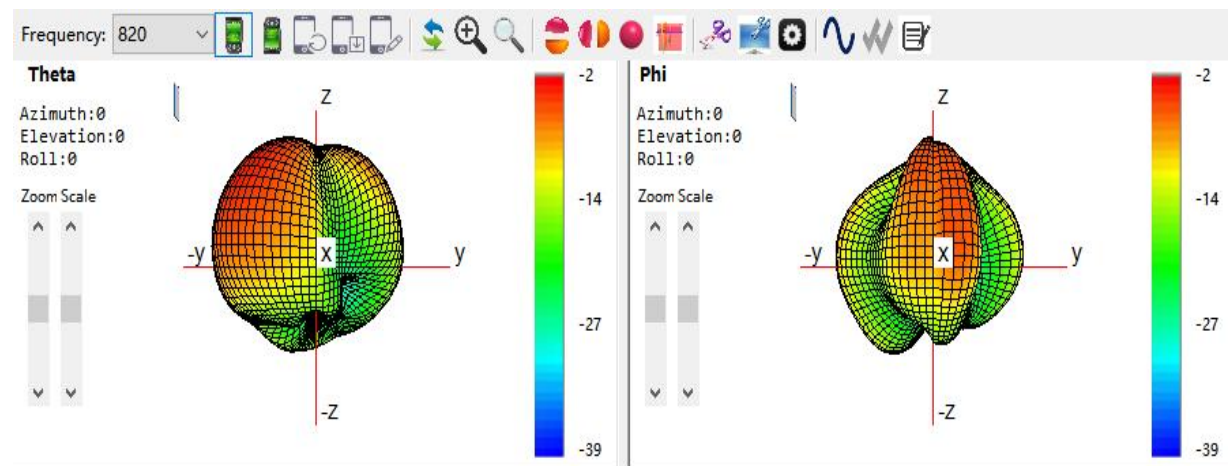
■ 结构图纸(仅参考板框和外形尺寸)

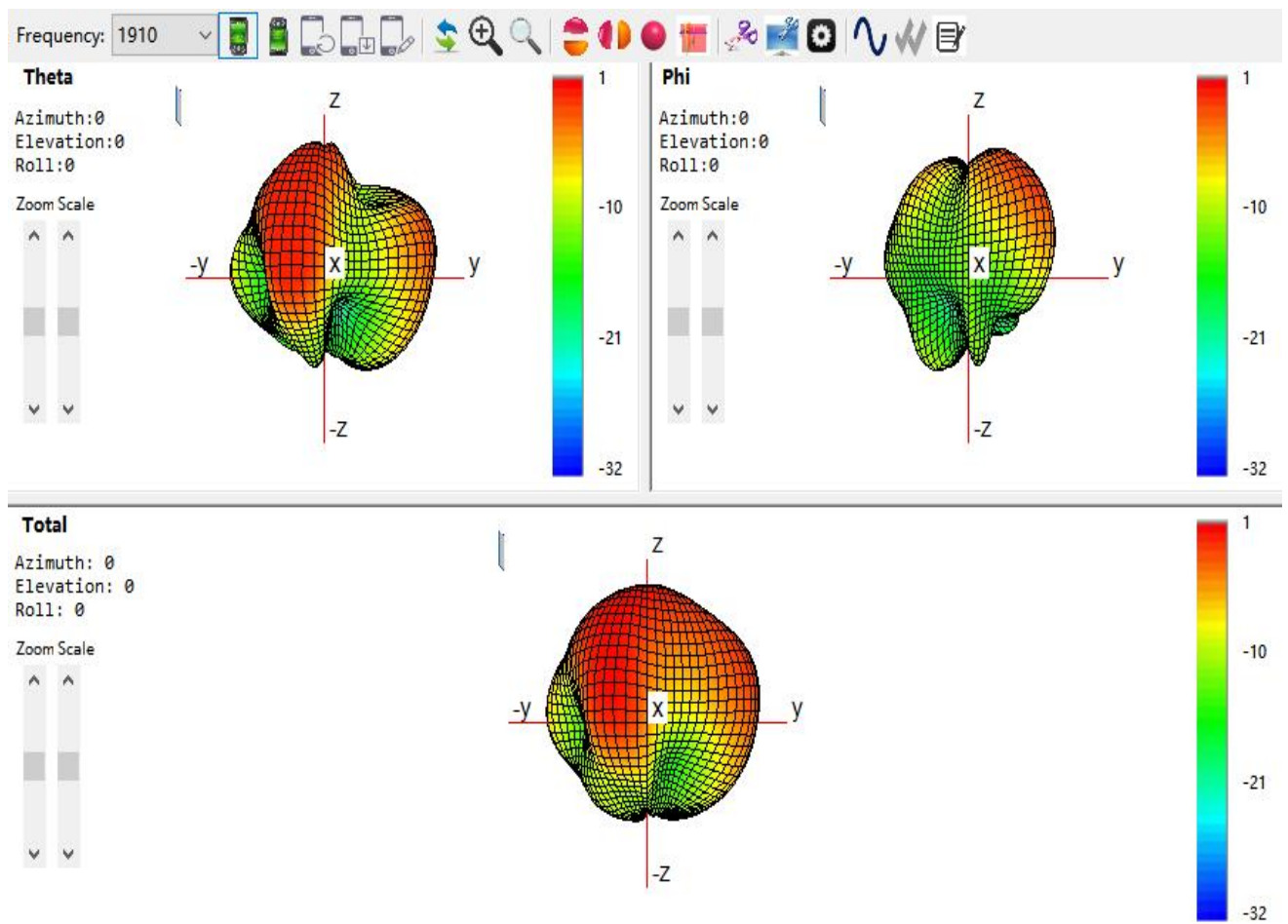
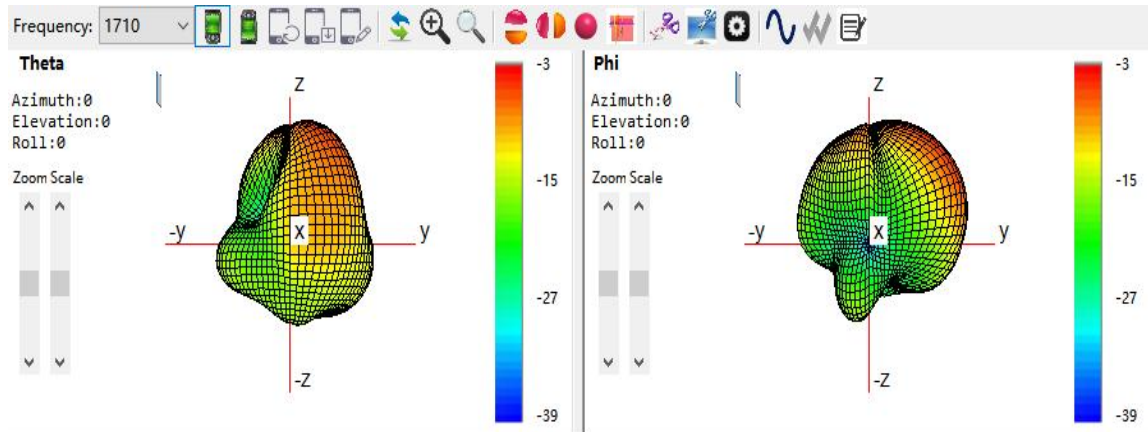


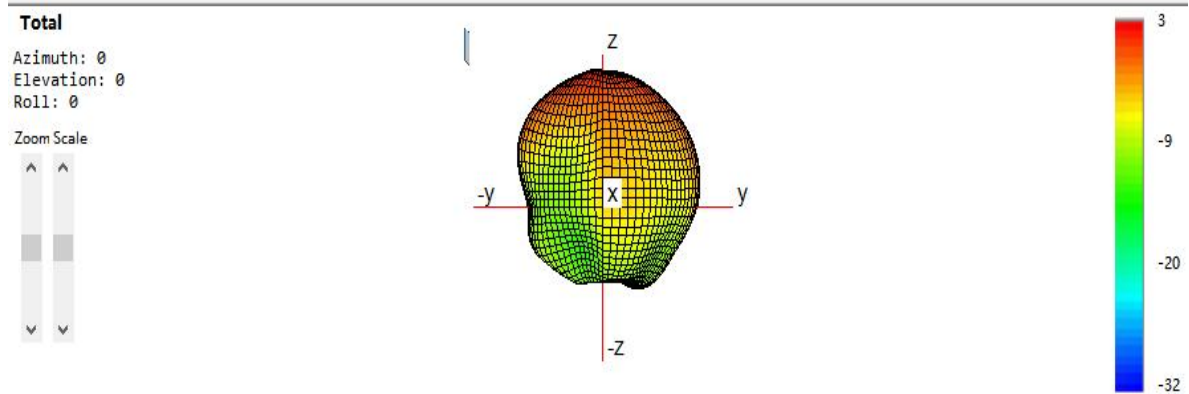
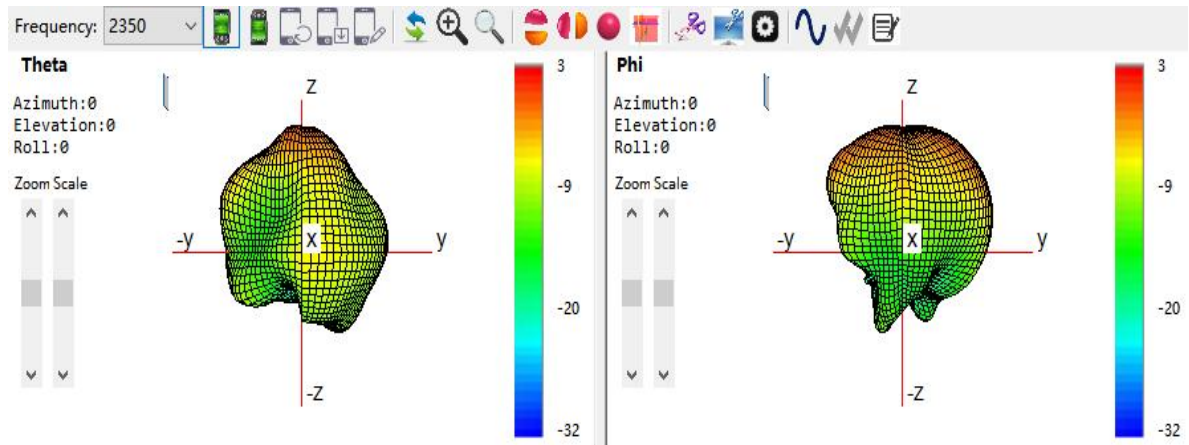
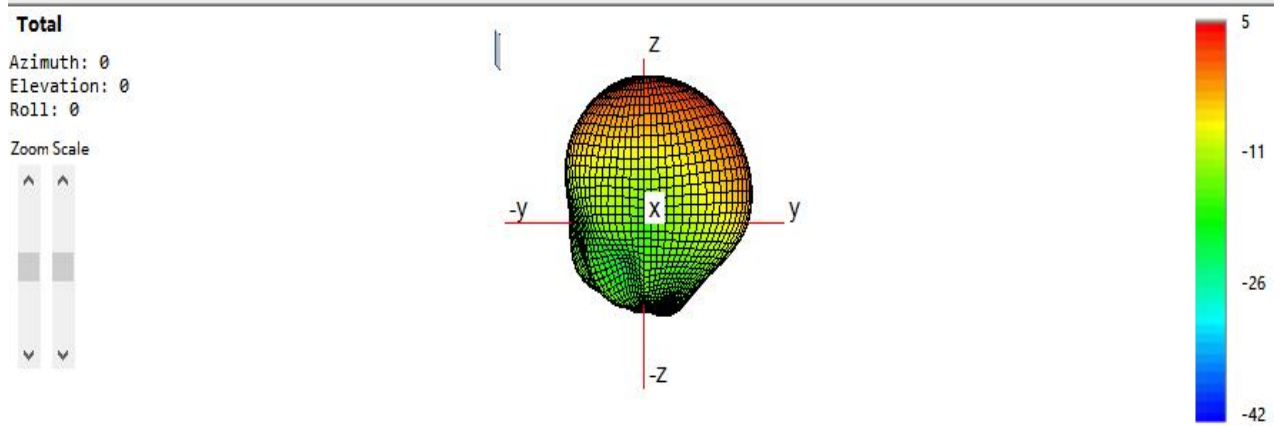
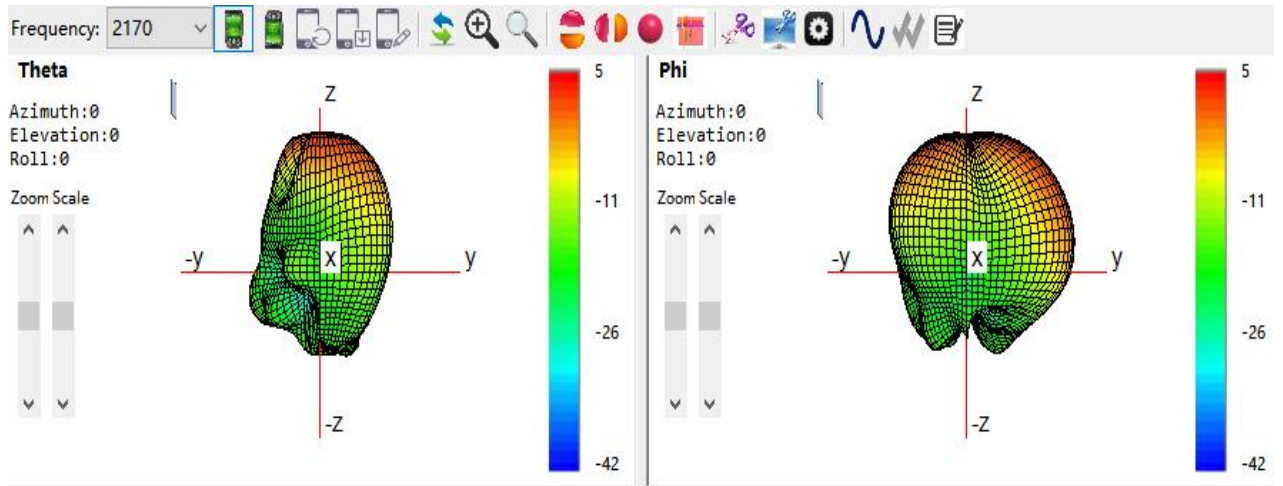
4G:

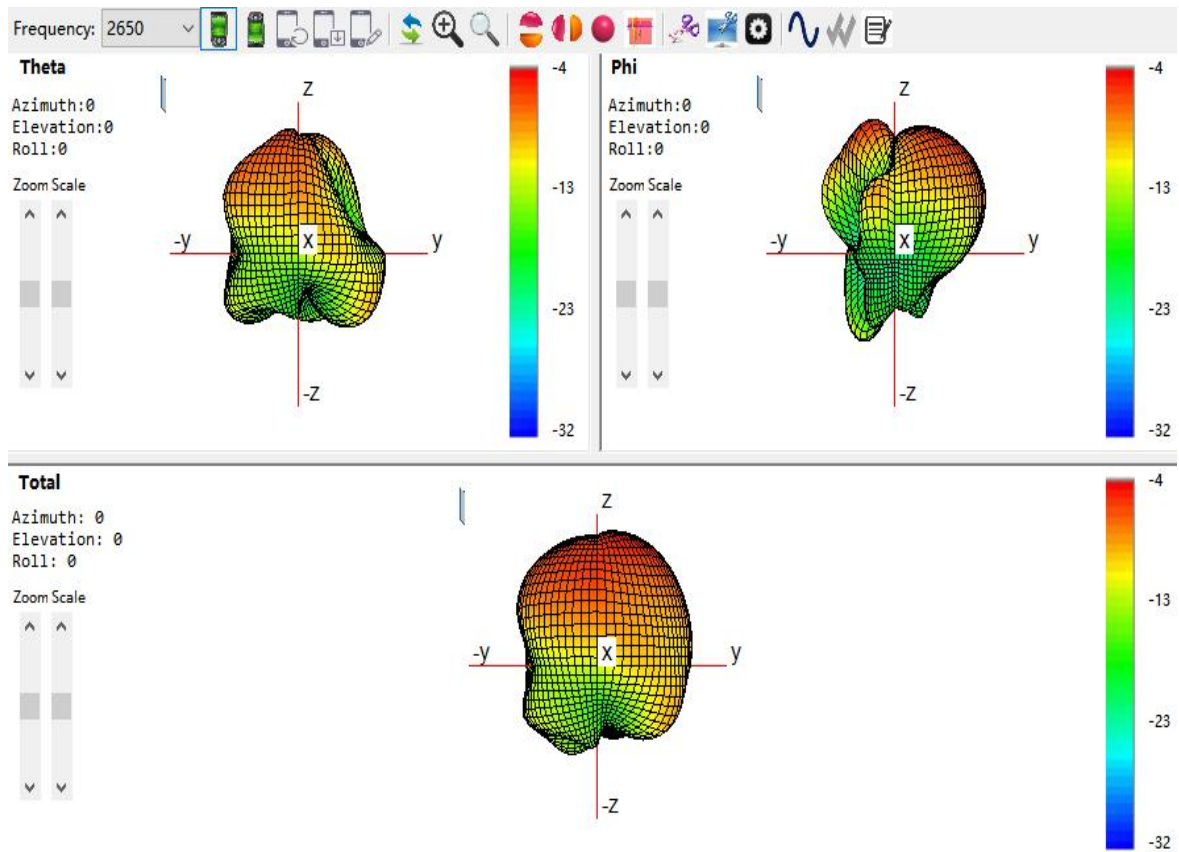
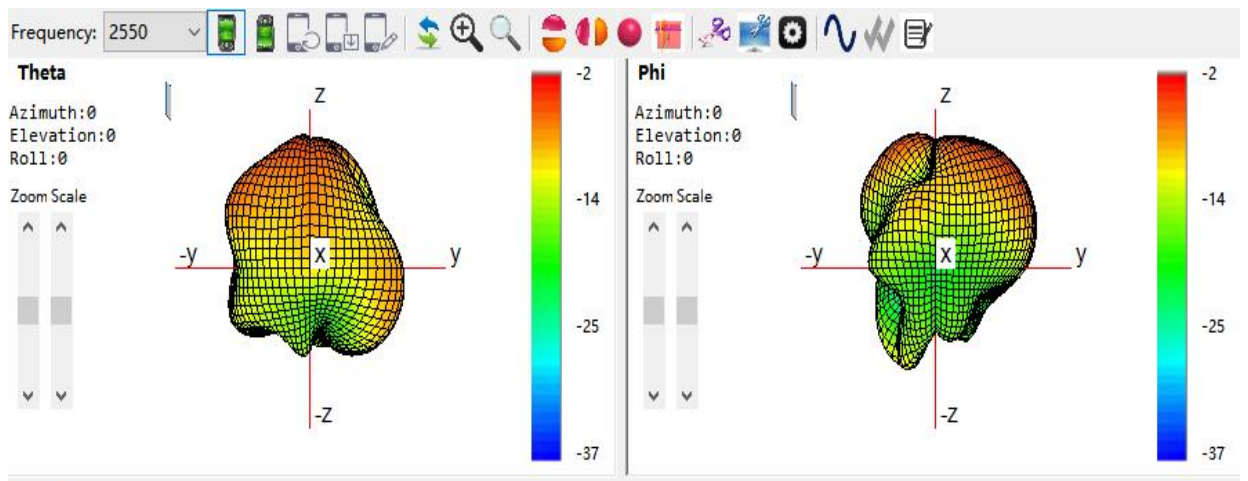


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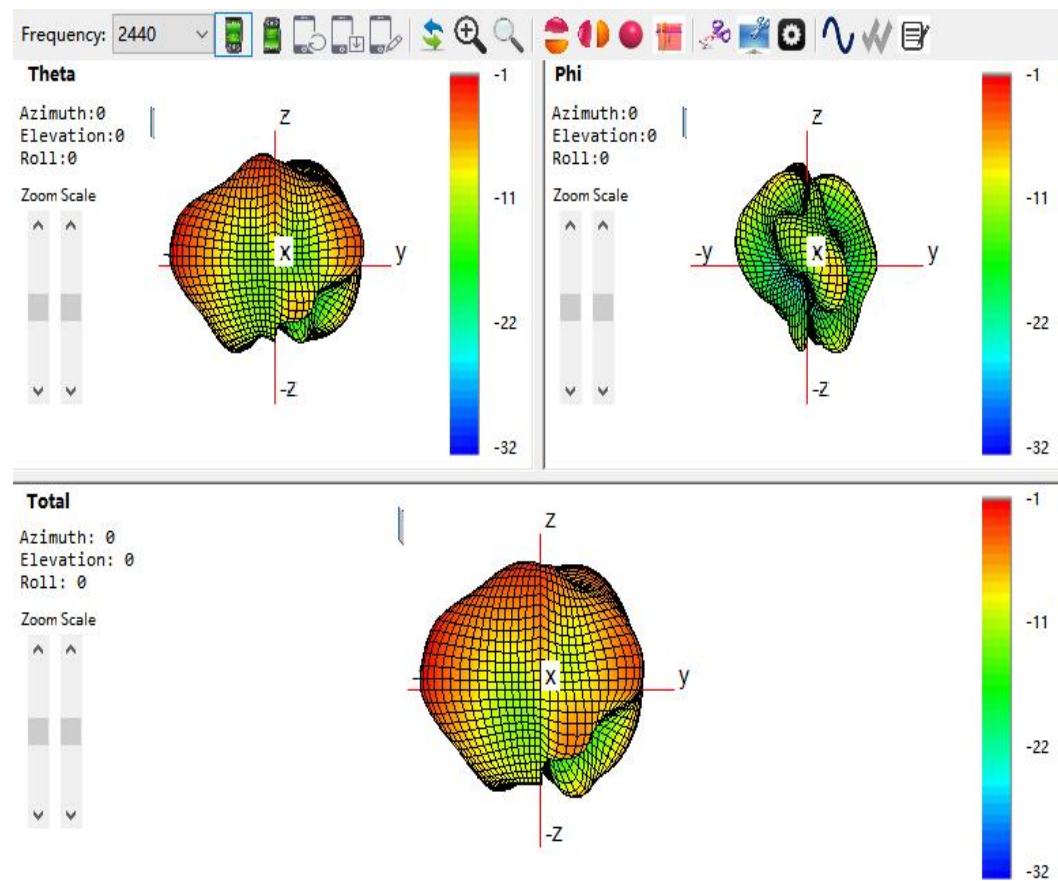
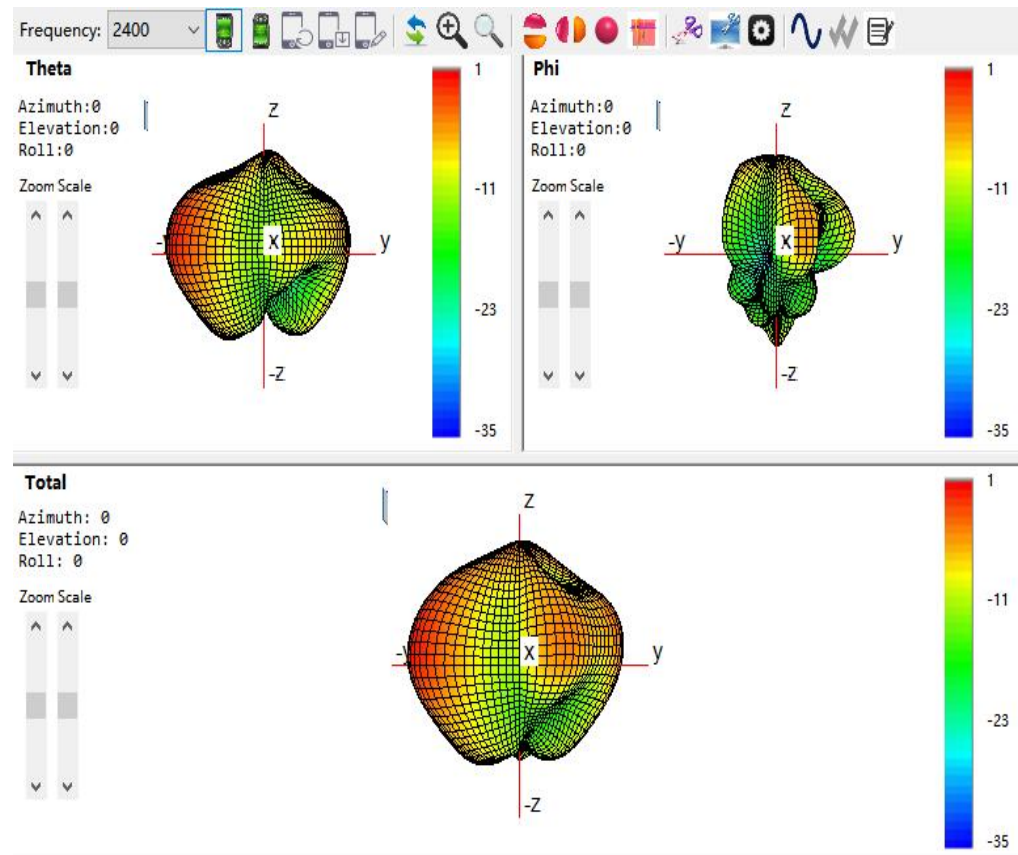


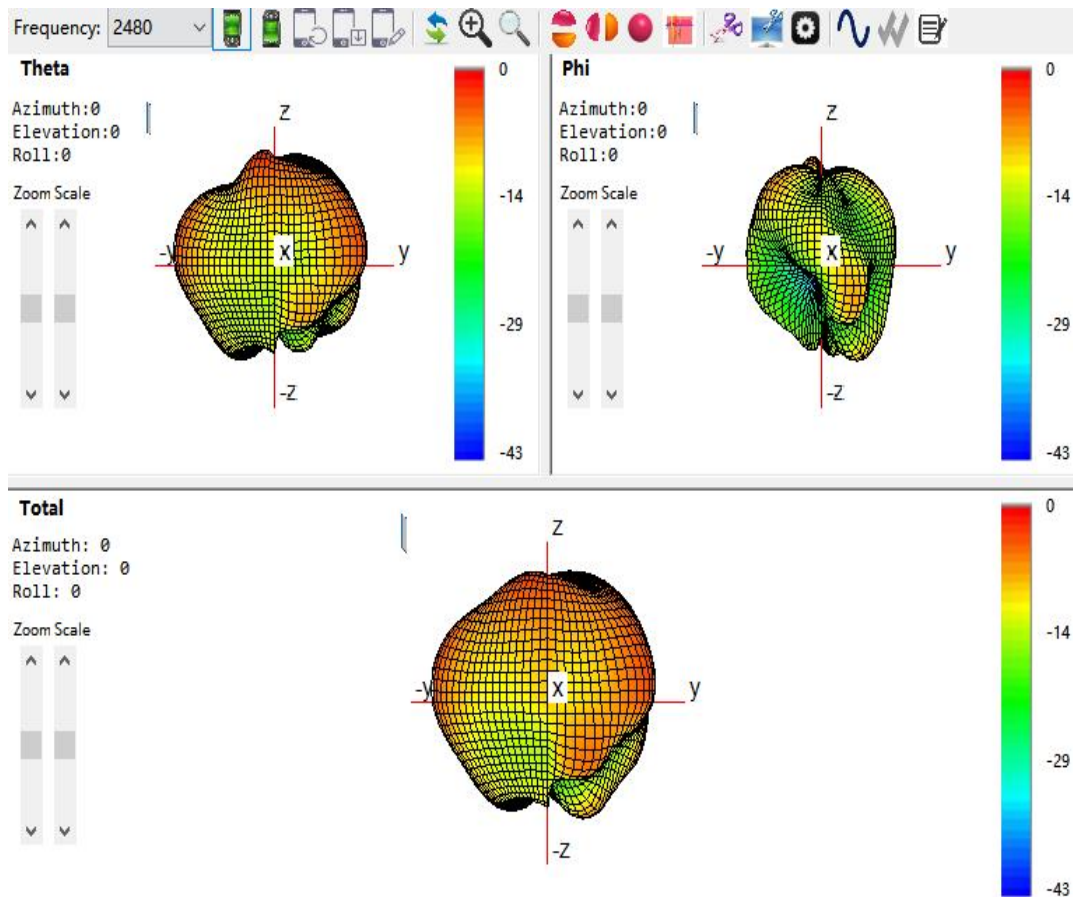




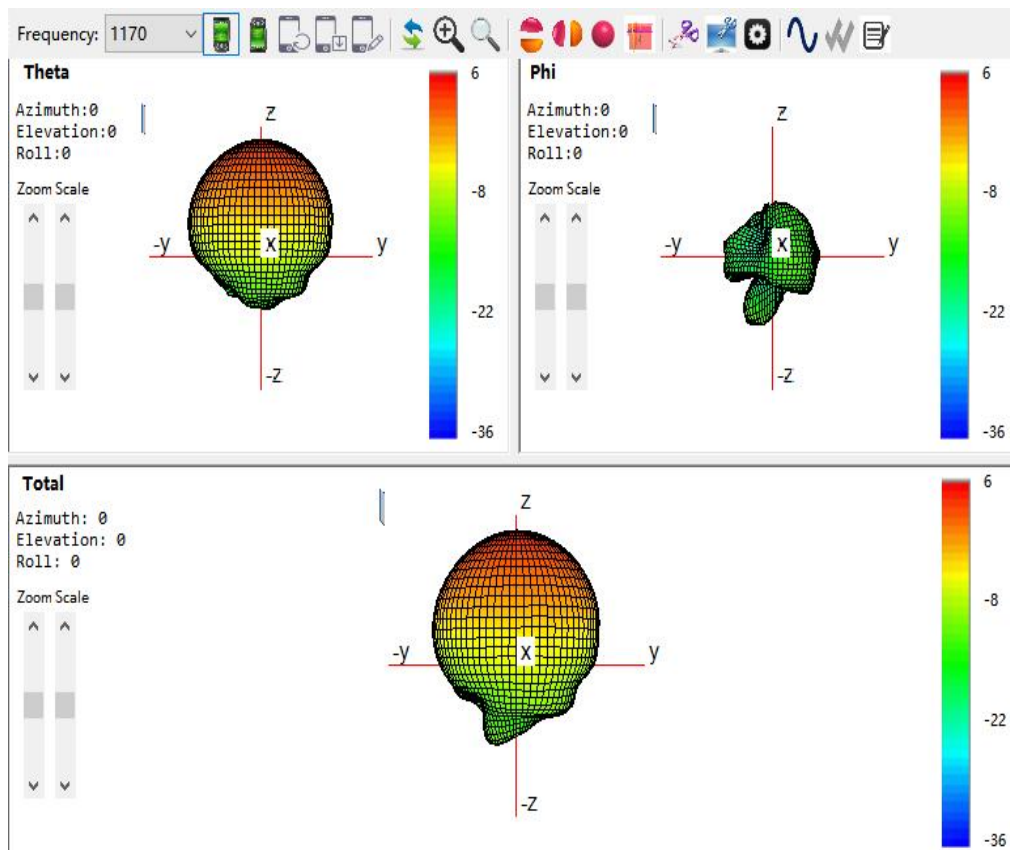


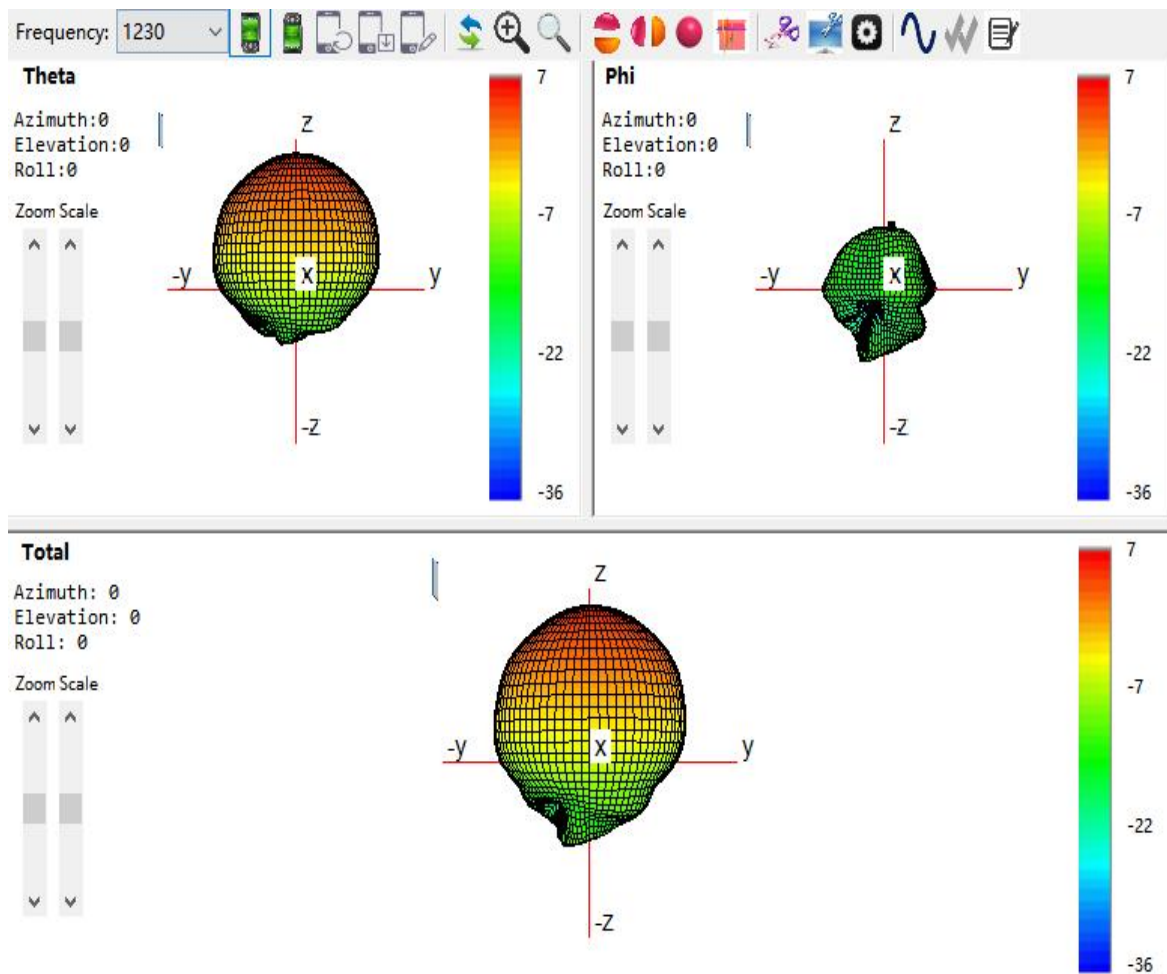
BT WIFI:

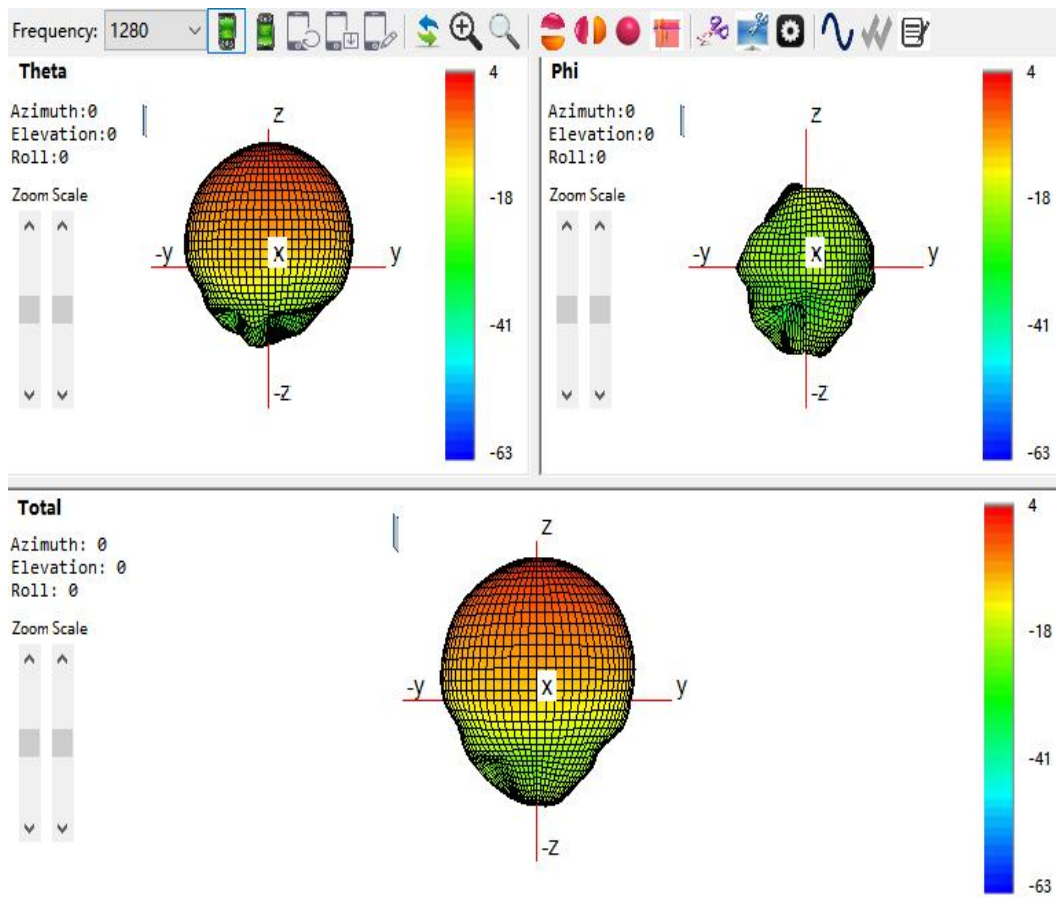


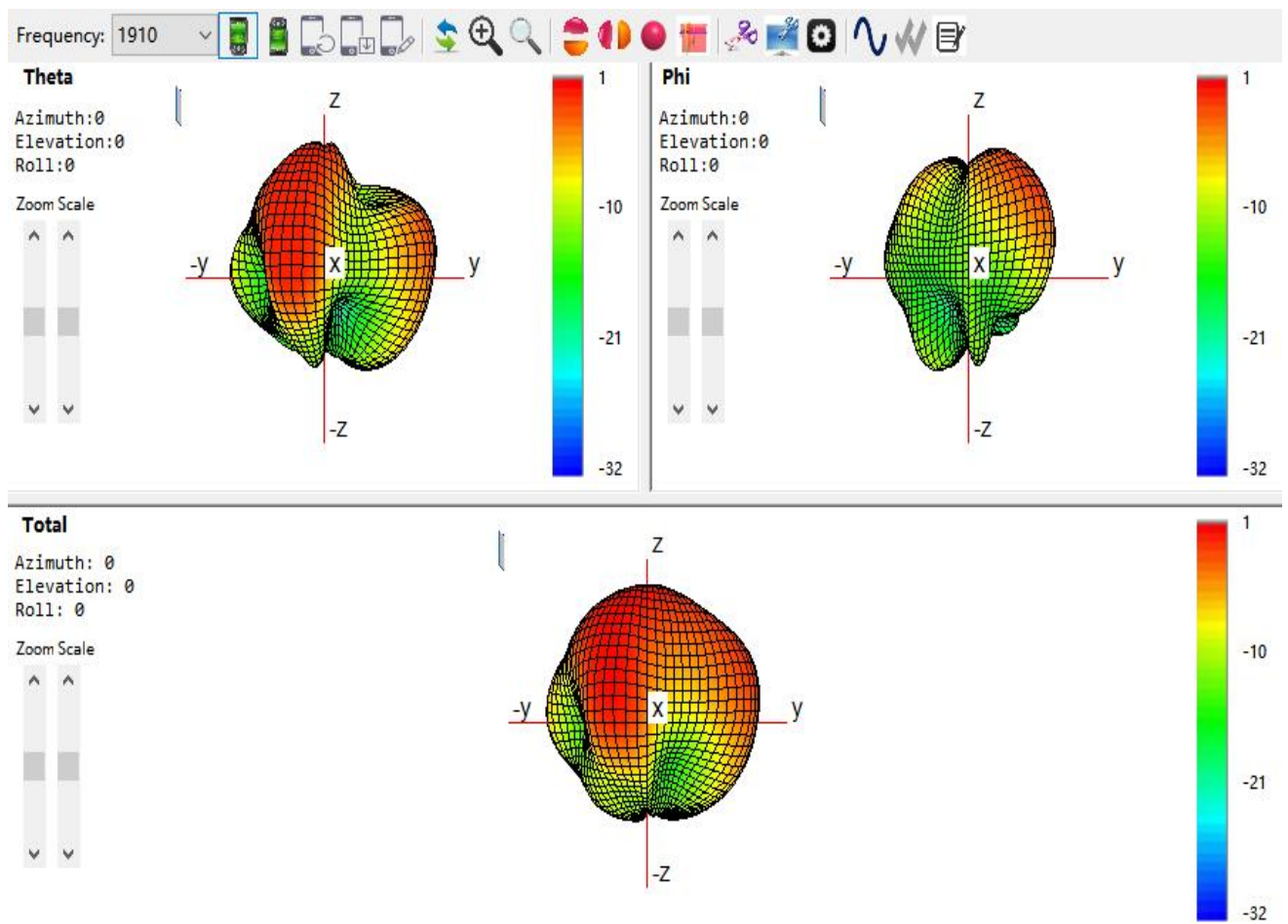
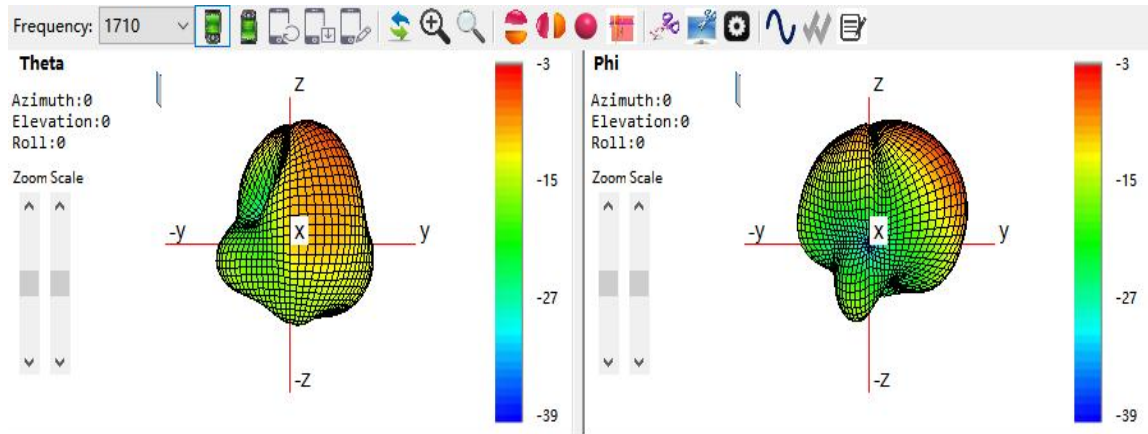


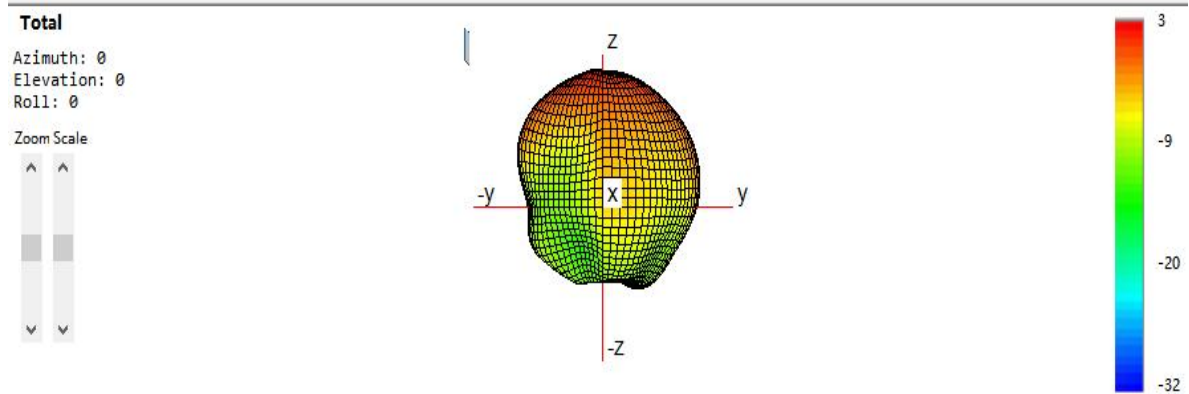
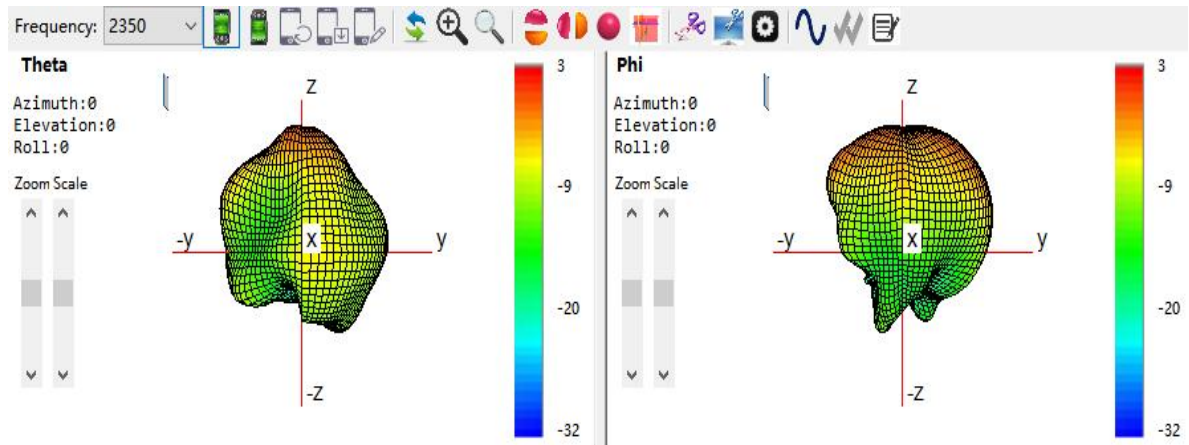
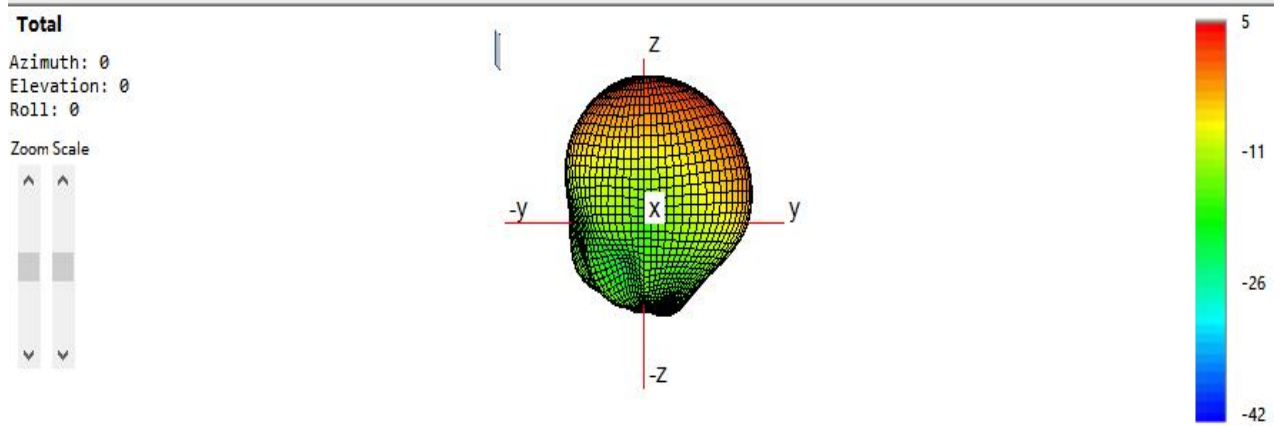
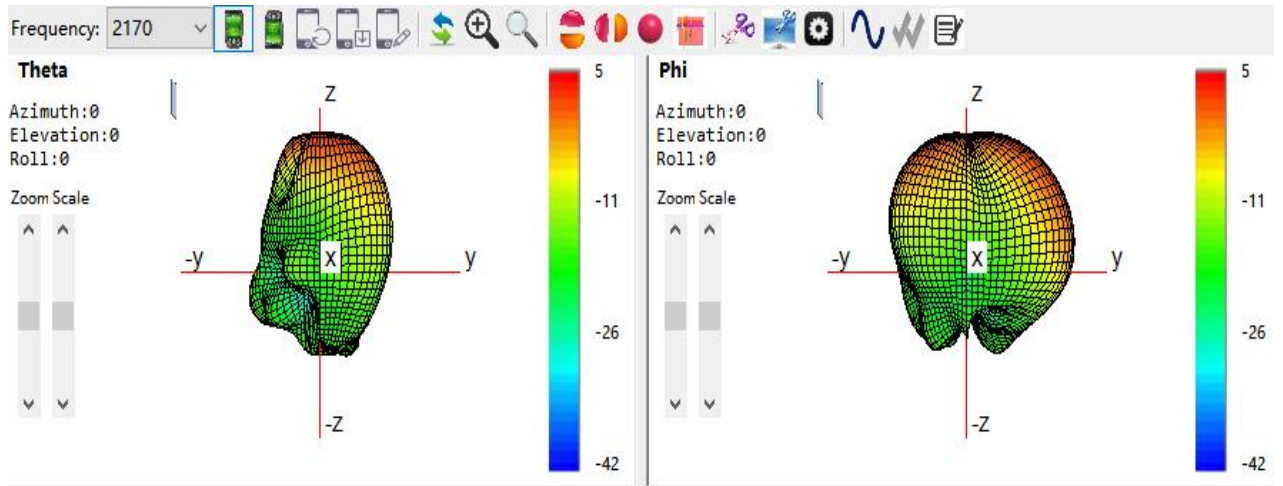
GNSS:

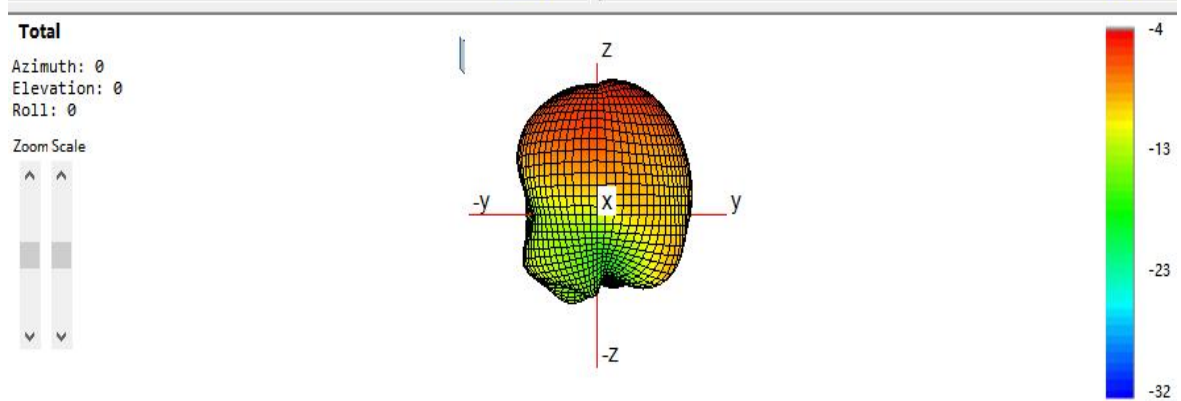
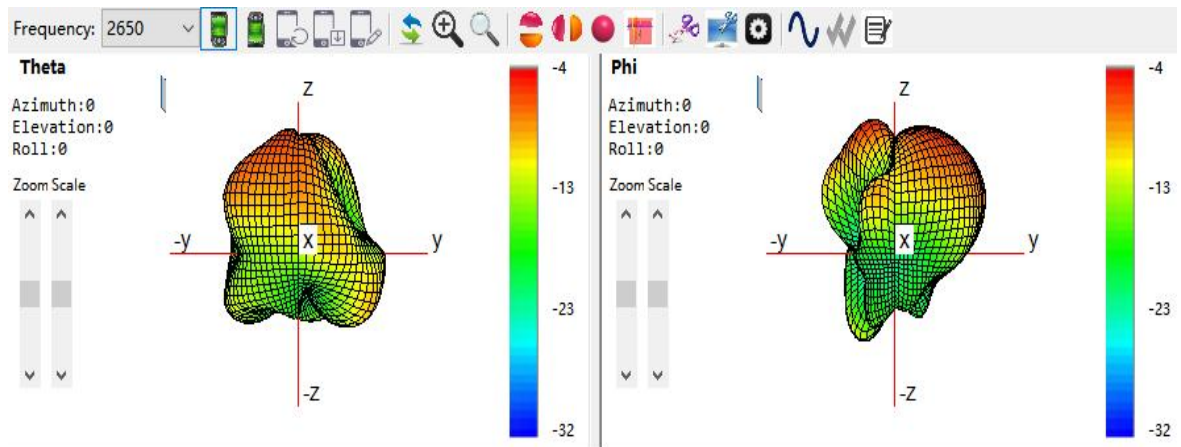
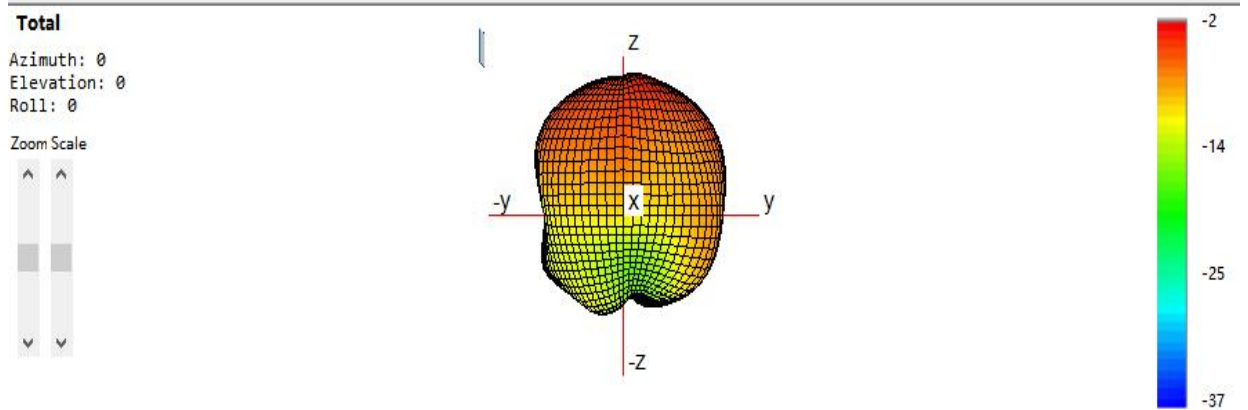
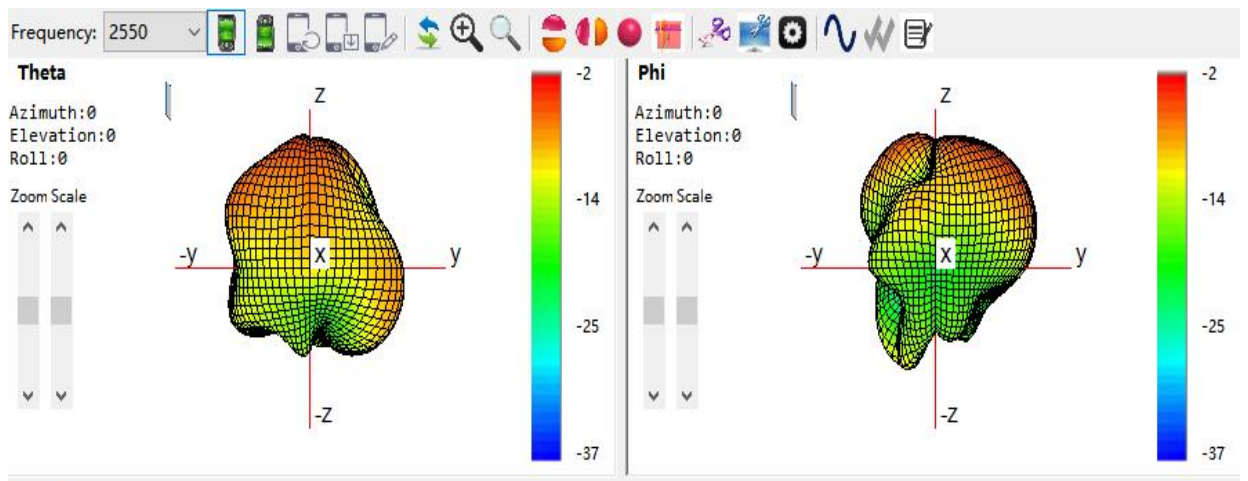












BT WIFI:

