

## Specification Data

Manufacturer:Shanghai Manxuan Electronics Co., Ltd

Address:Room J2651, No. 6, Lane 129, Huajiang Road, Jiading District, Shanghai

**规格描述:** 2.4G Large folding antenna L=195MMSMA(gold plated) inner needle

**制作日期:** 2023 年 03 月 09 日

### 出厂确认:

| 部 门 | 审 核 | 批 准 |
|-----|-----|-----|
| 射频部 | 刘景雄 | 李斌  |
| 结构部 | 谢东展 | 李斌  |
| 品质部 | 王飞  | 李斌  |

### 客户确认:

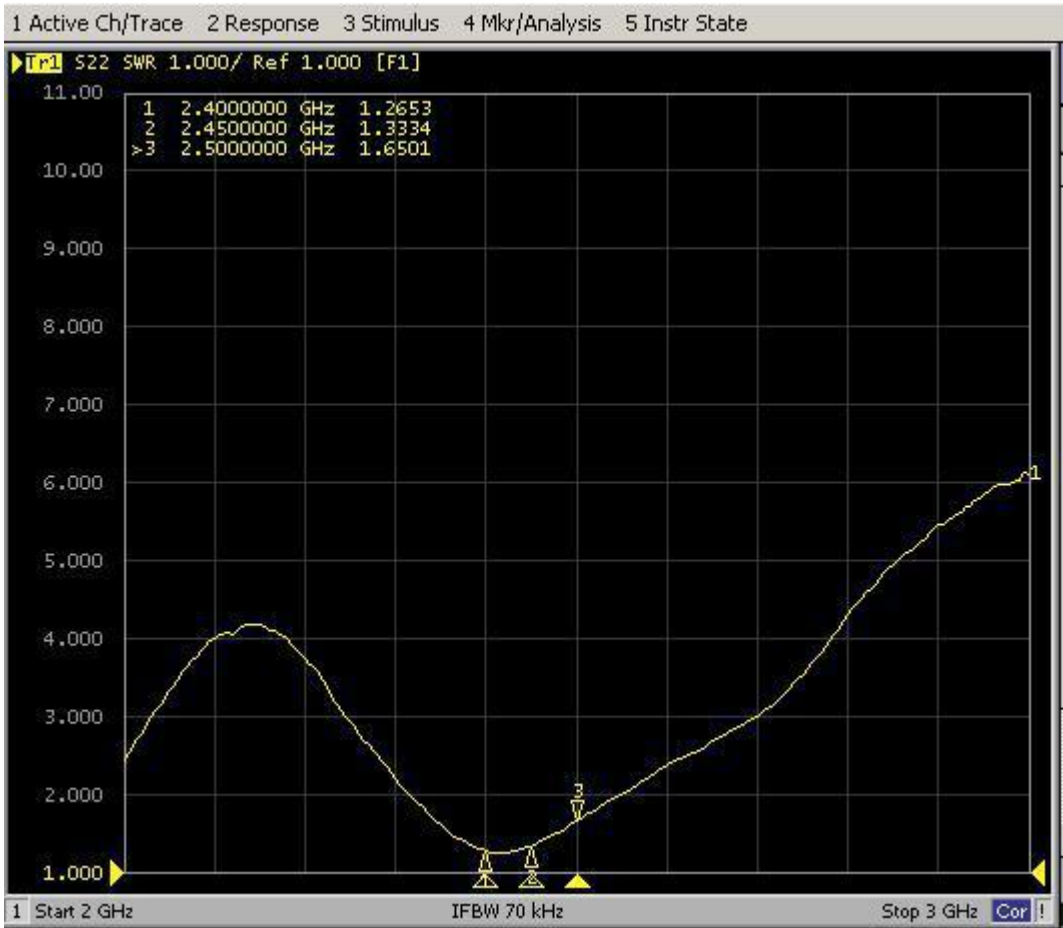
| 检 查 | 审 核 | 批 准 |
|-----|-----|-----|
|     |     |     |

1. 产品图片



2. 电气性能测试报告:

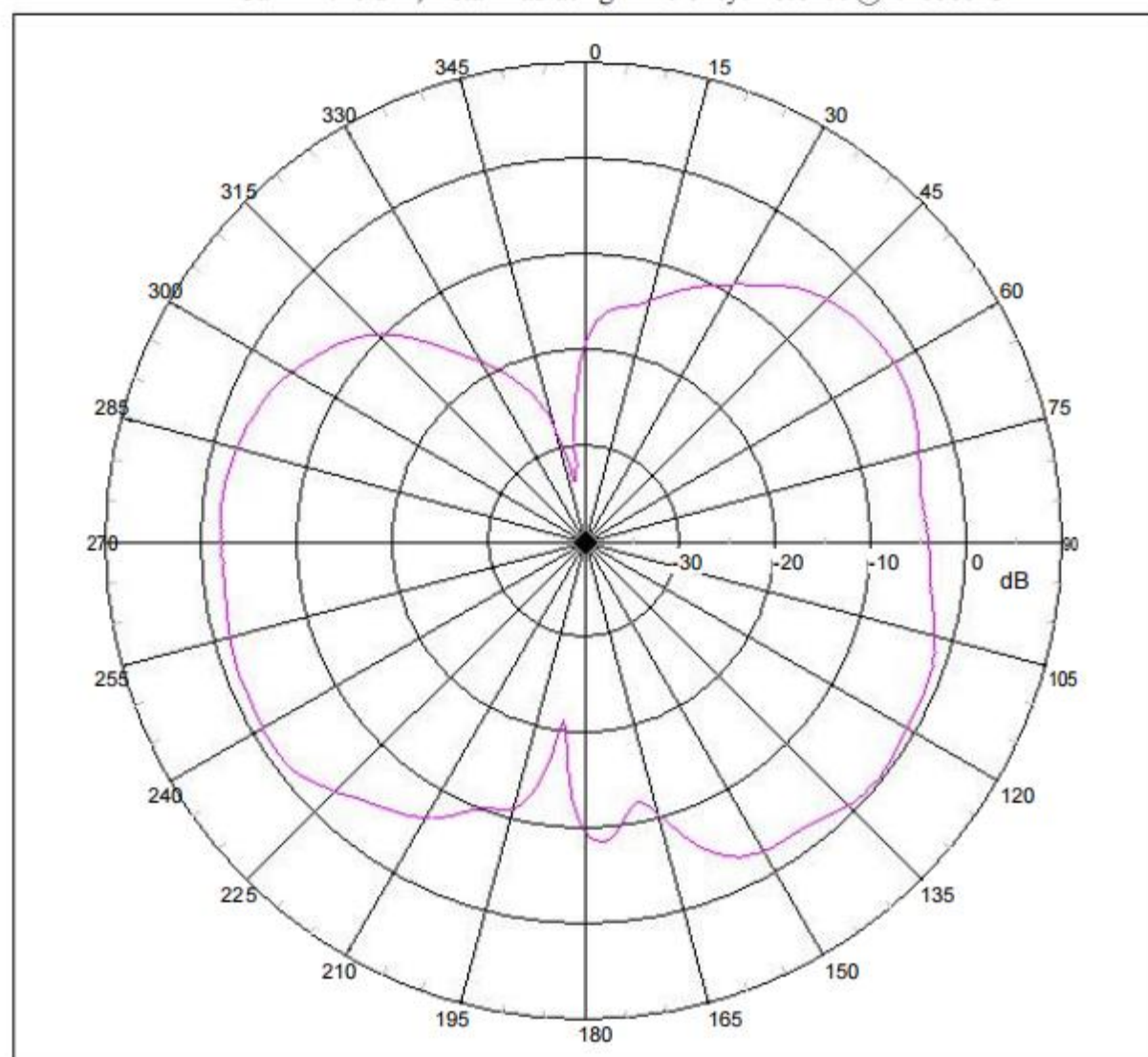
VSWR:



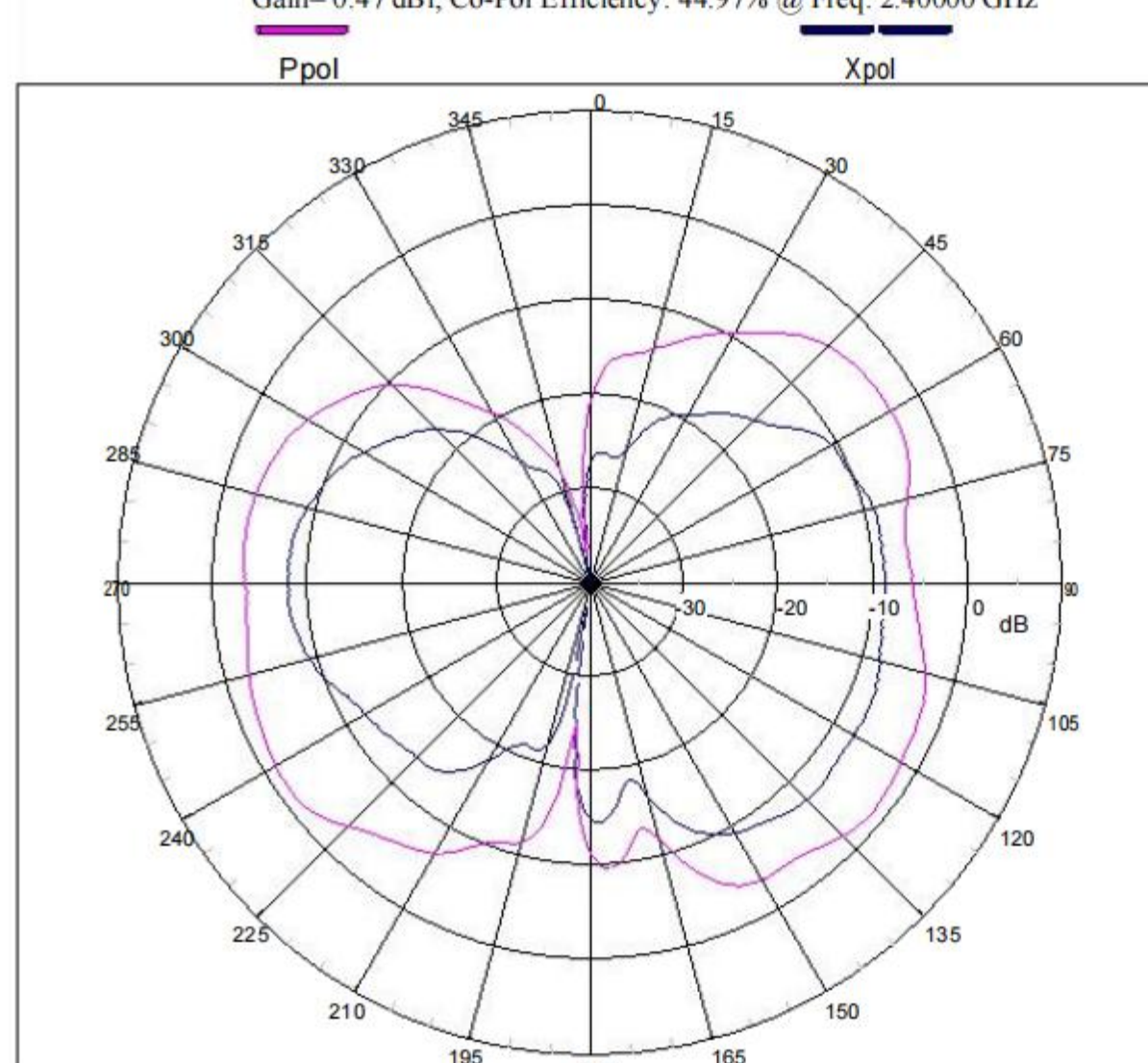
3. 产品性能参数:

| 电性能指标Electrical Specifications    |                     |
|-----------------------------------|---------------------|
| 频率范围 Frequency Range (MHz)        | 2400-2500           |
| 输入阻抗 Input Impedence (Ω)          | 50                  |
| 电压驻波比 V.S.W.R                     | ≤2.0（未匹配设备，仅供参考）    |
| 增益 Gain (dBi)                     | 3.0±0.5（未匹配设备，仅供参考） |
| 极化形式 Polarization Type            | 垂直 Vertical         |
| 最大功率 Maximum power(W)             | 10W                 |
| 垂直面波瓣角度 Vertical lobe Angle（E）    | 45~60°              |
| 水平面波瓣角度 Water plane lobe Angle（H） | 360°                |
| 机械指标Mechanical Specifications     |                     |
| 连接器型号 Connect Type                | 公头内针<br>SMA         |
| 电缆型号 Cable Type                   | /                   |
| 天线尺寸 Size                         | 195*Φ13MM           |
| 工作温度 Operating Temp               | -20 ~ +65 °C        |
| 储存温度 Storage Temp                 | -30 ~ +75°C         |

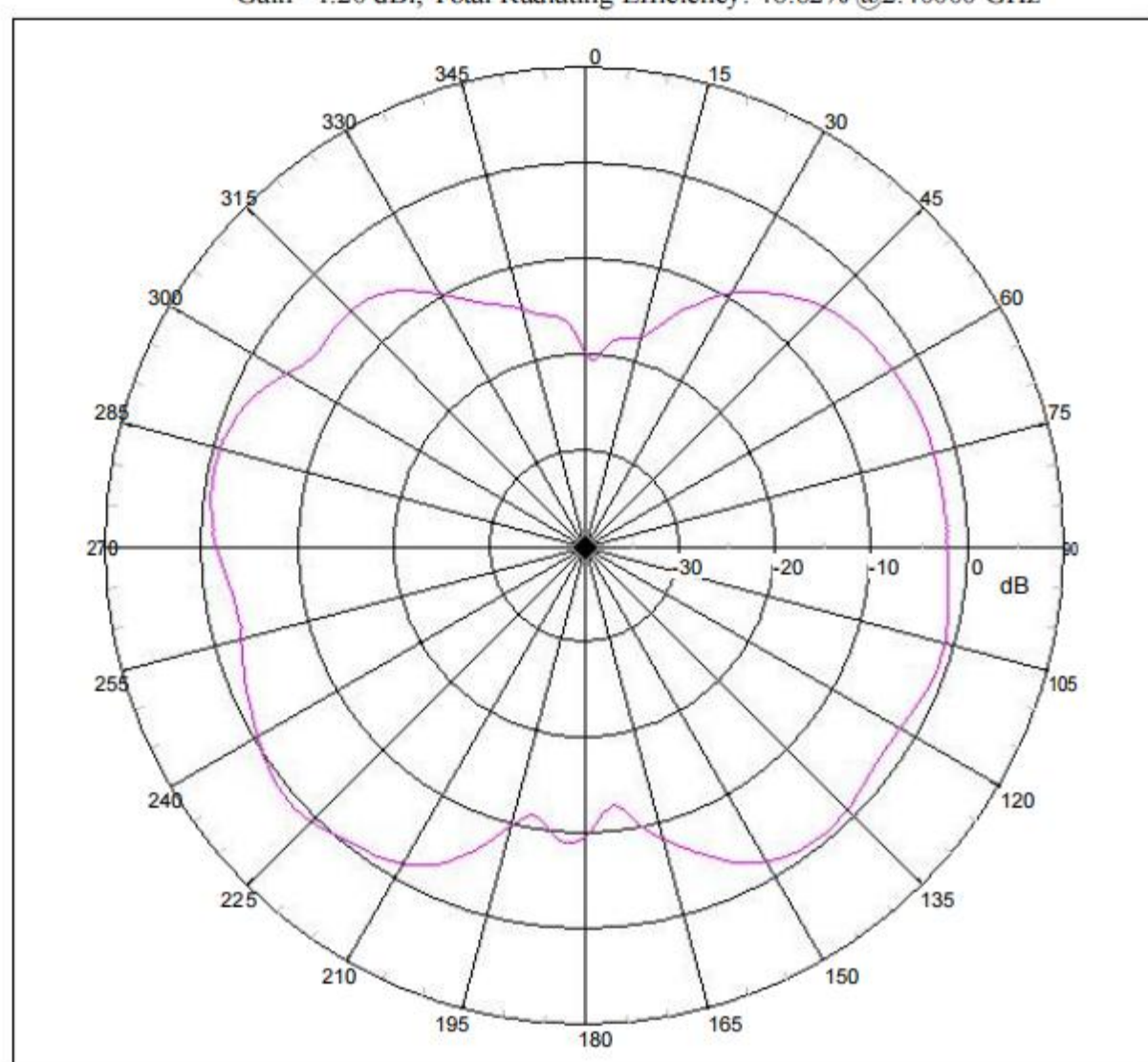
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)  
Gain= 1.20 dBi; Total Radiating Efficiency: 46.62% @2.40000 GHz



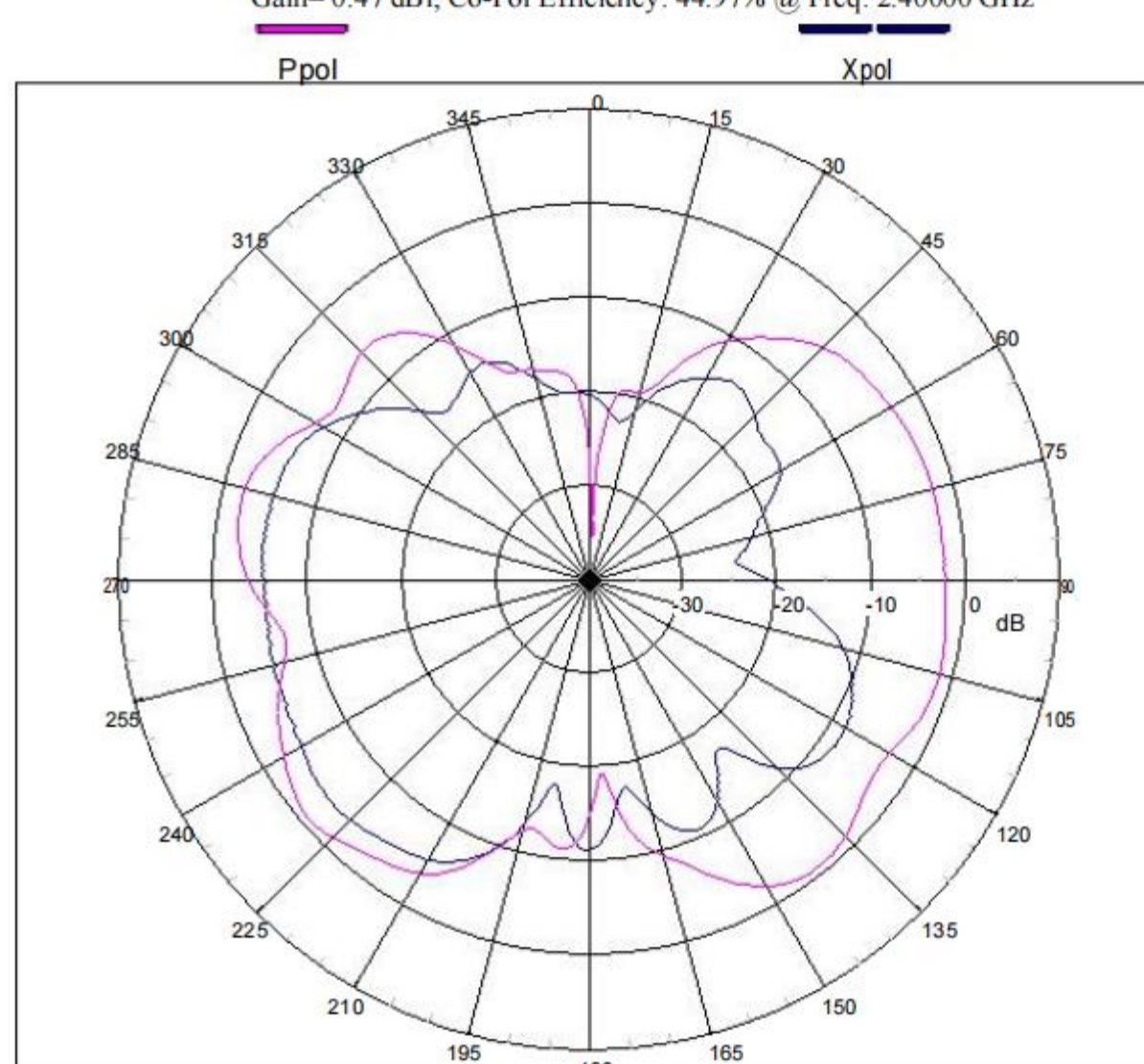
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)  
Gain= 0.47 dBi; Co-Pol Efficiency: 44.97% @ Freq: 2.40000 GHz



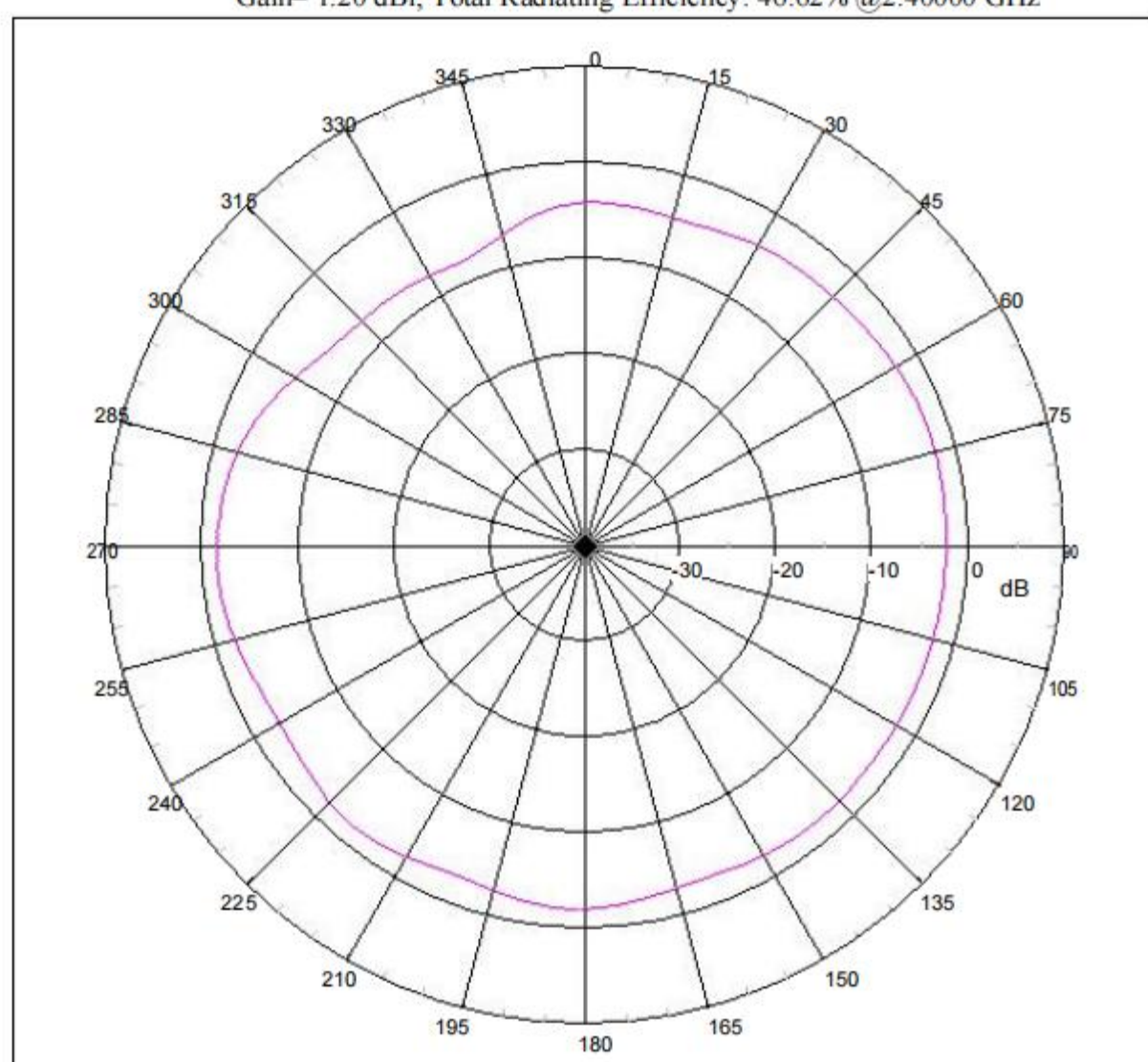
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)  
Gain= 1.20 dBi; Total Radiating Efficiency: 46.62% @2.40000 GHz



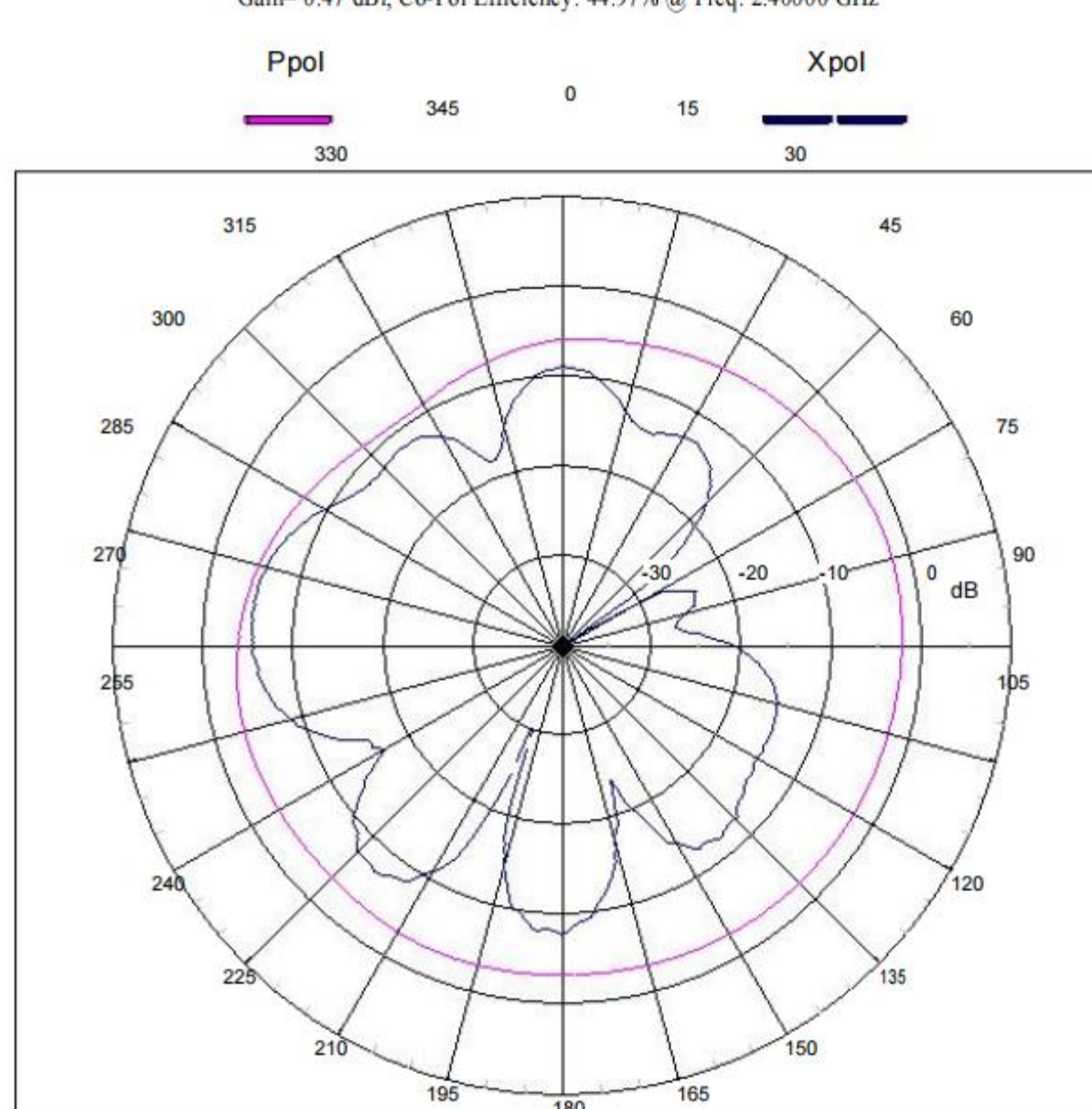
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)  
Gain= 0.47 dBi; Co-Pol Efficiency: 44.97% @ Freq: 2.40000 GHz



Far-field Power Distribution on X-Y Plane  
Gain= 1.20 dBi; Total Radiating Efficiency: 46.62% @2.40000 GHz

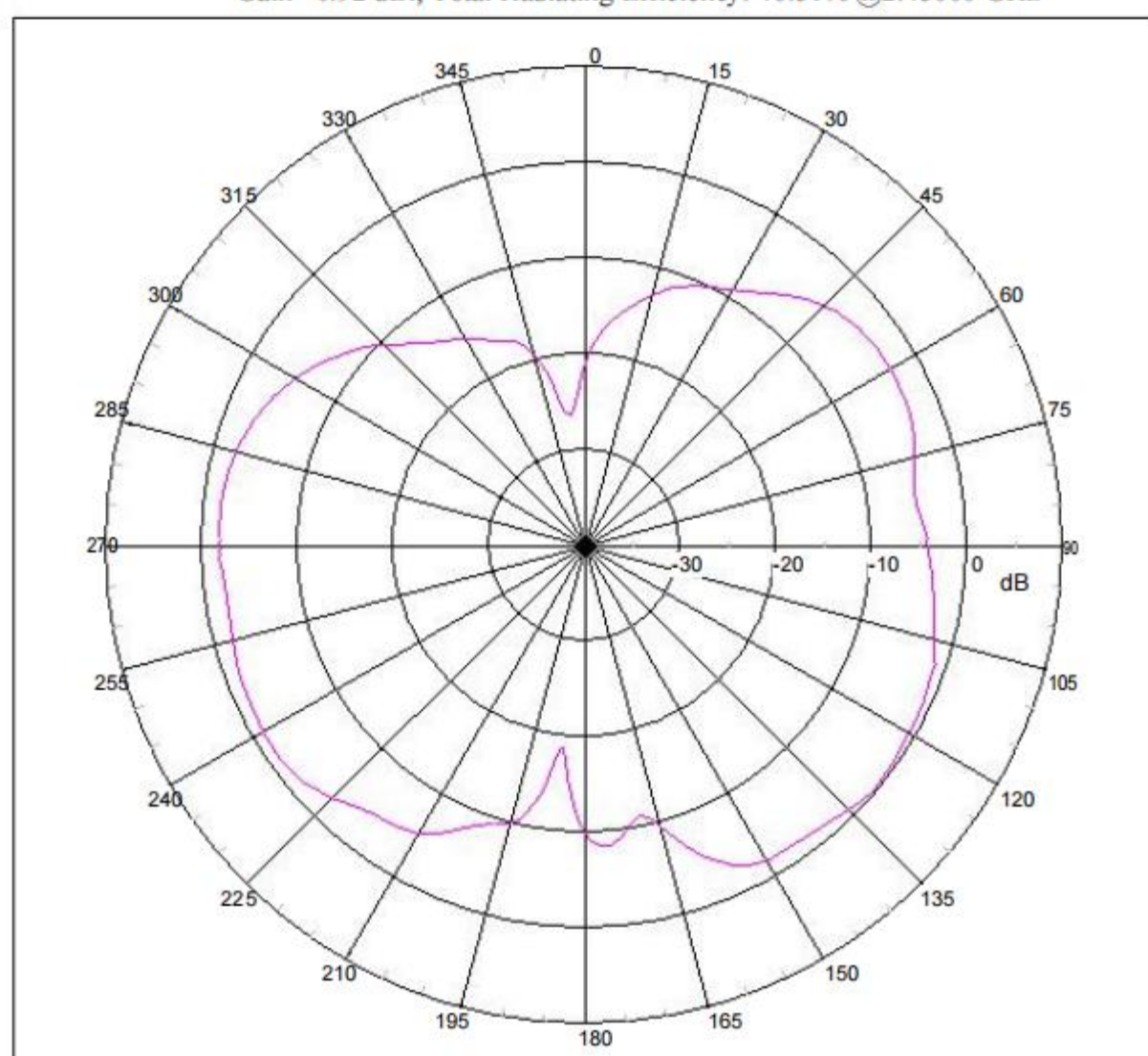


Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)  
Gain= 0.47 dBi; Co-Pol Efficiency: 44.97% @ Freq: 2.40000 GHz



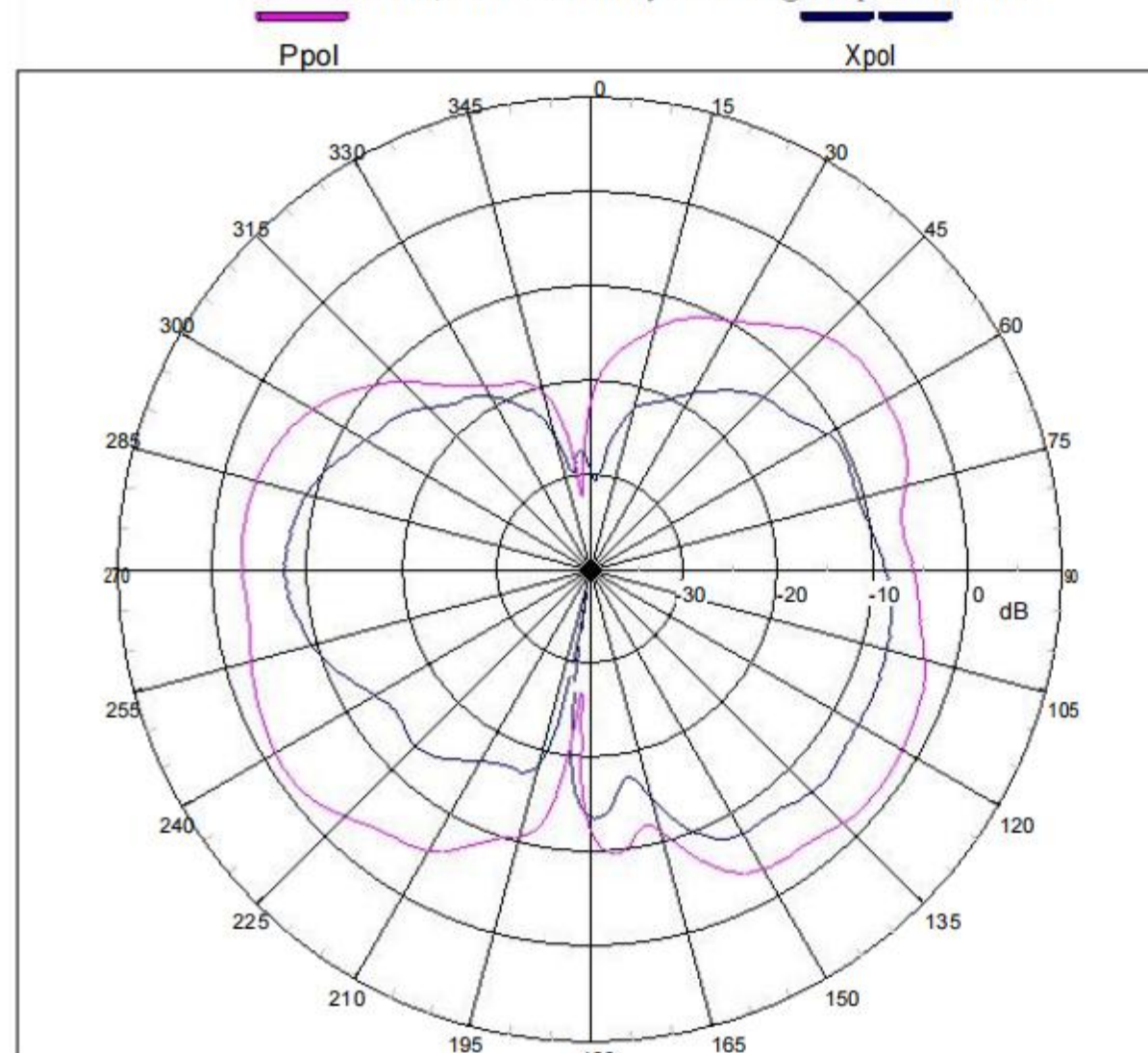
Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)

Gain= 0.92 dBi; Total Radiating Efficiency: 46.51% @2.45000 GHz



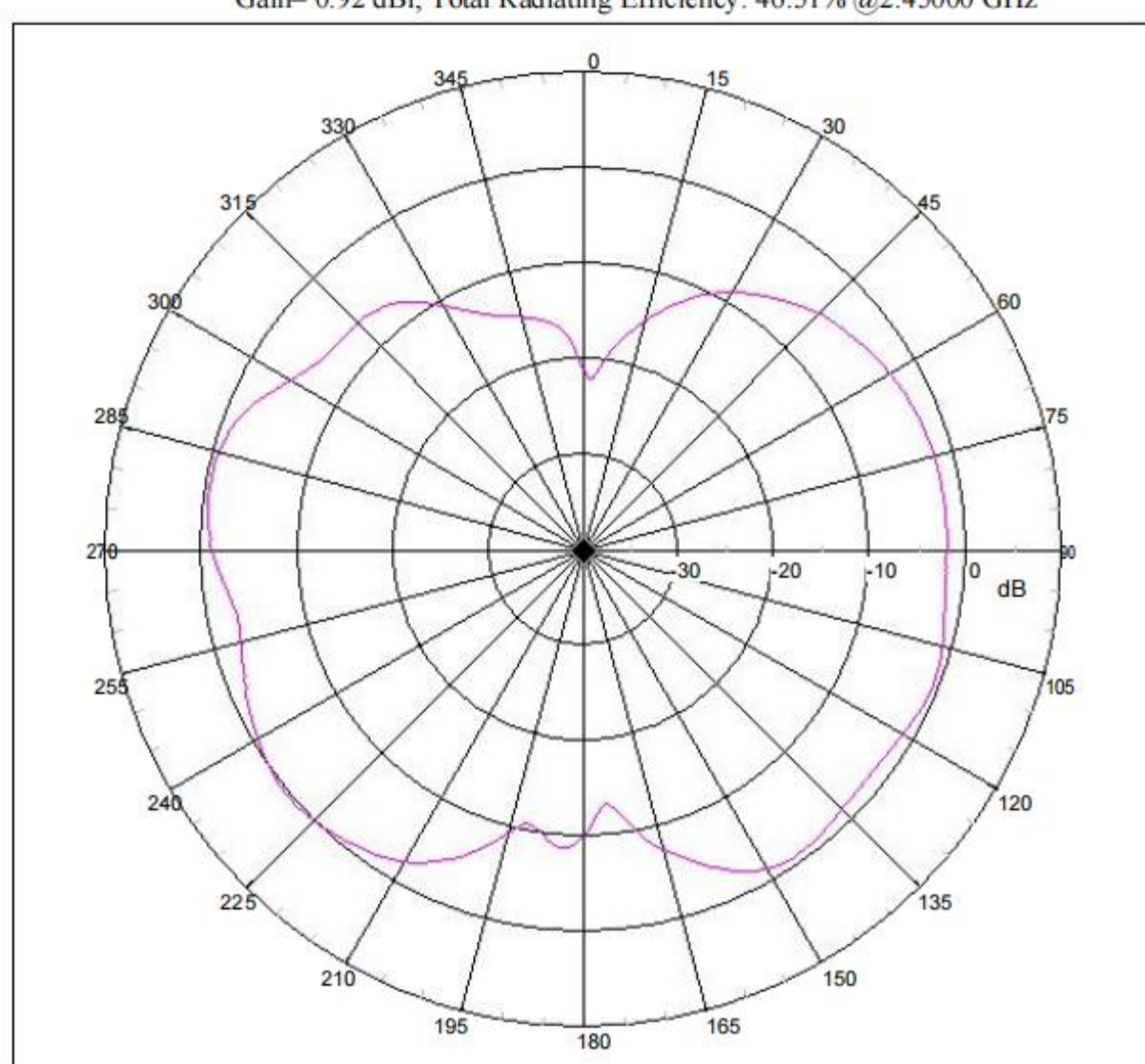
Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)

Gain= 0.48 dBi; Co-Pol Efficiency: 45.59% @ Freq: 2.45000 GHz



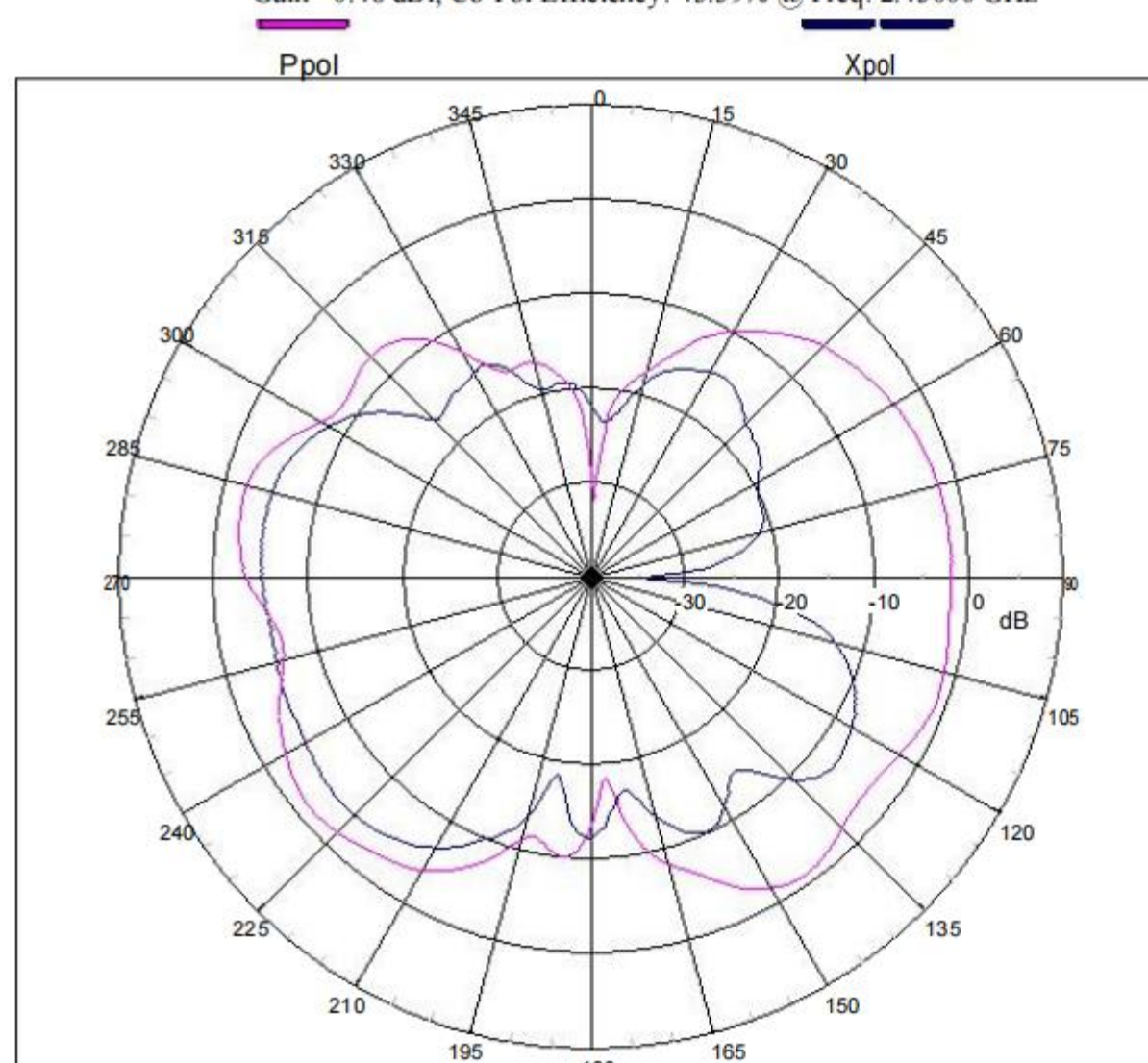
Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)

Gain= 0.92 dBi; Total Radiating Efficiency: 46.51% @2.45000 GHz



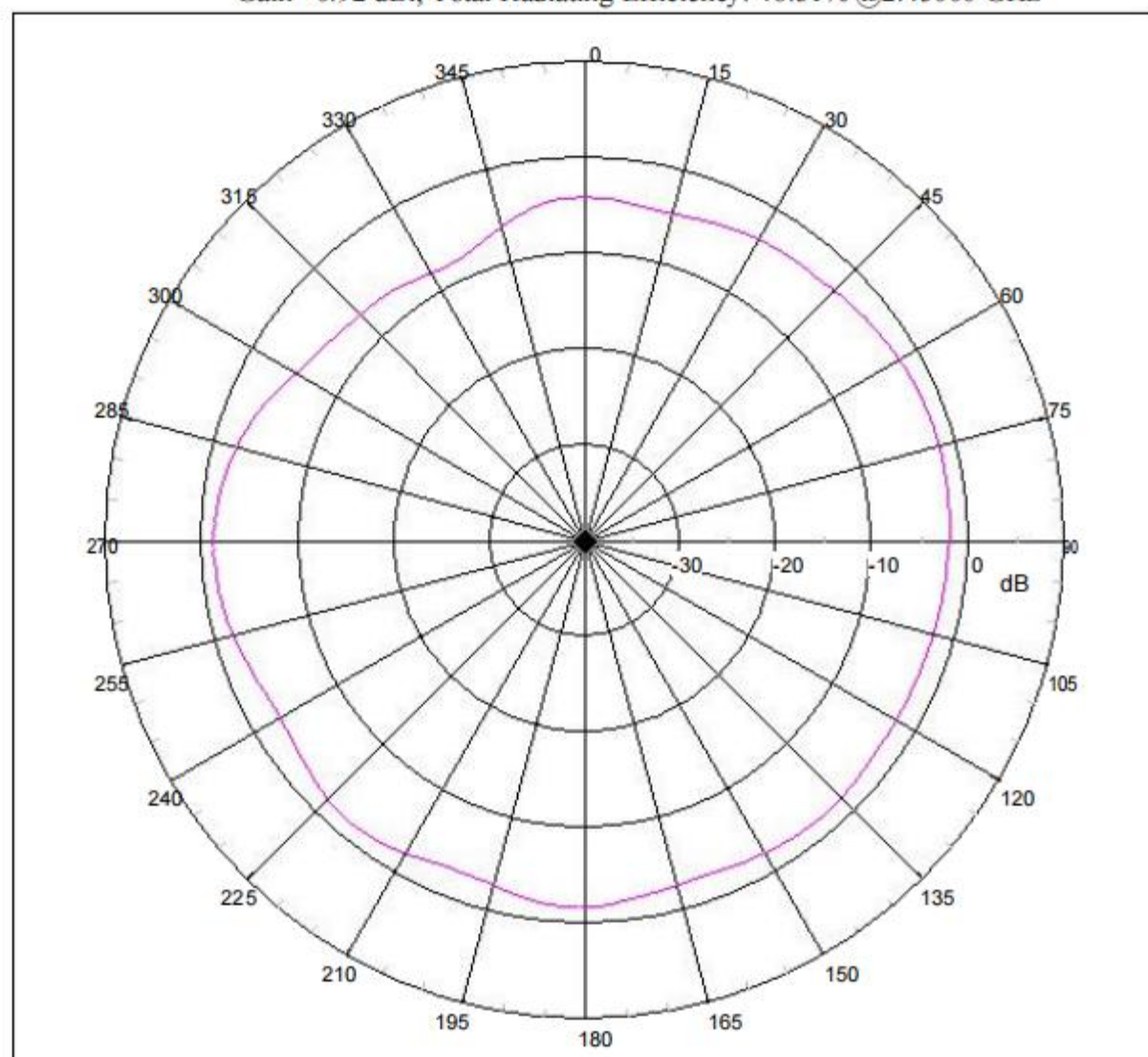
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)

Gain= 0.48 dBi; Co-Pol Efficiency: 45.59% @ Freq: 2.45000 GHz



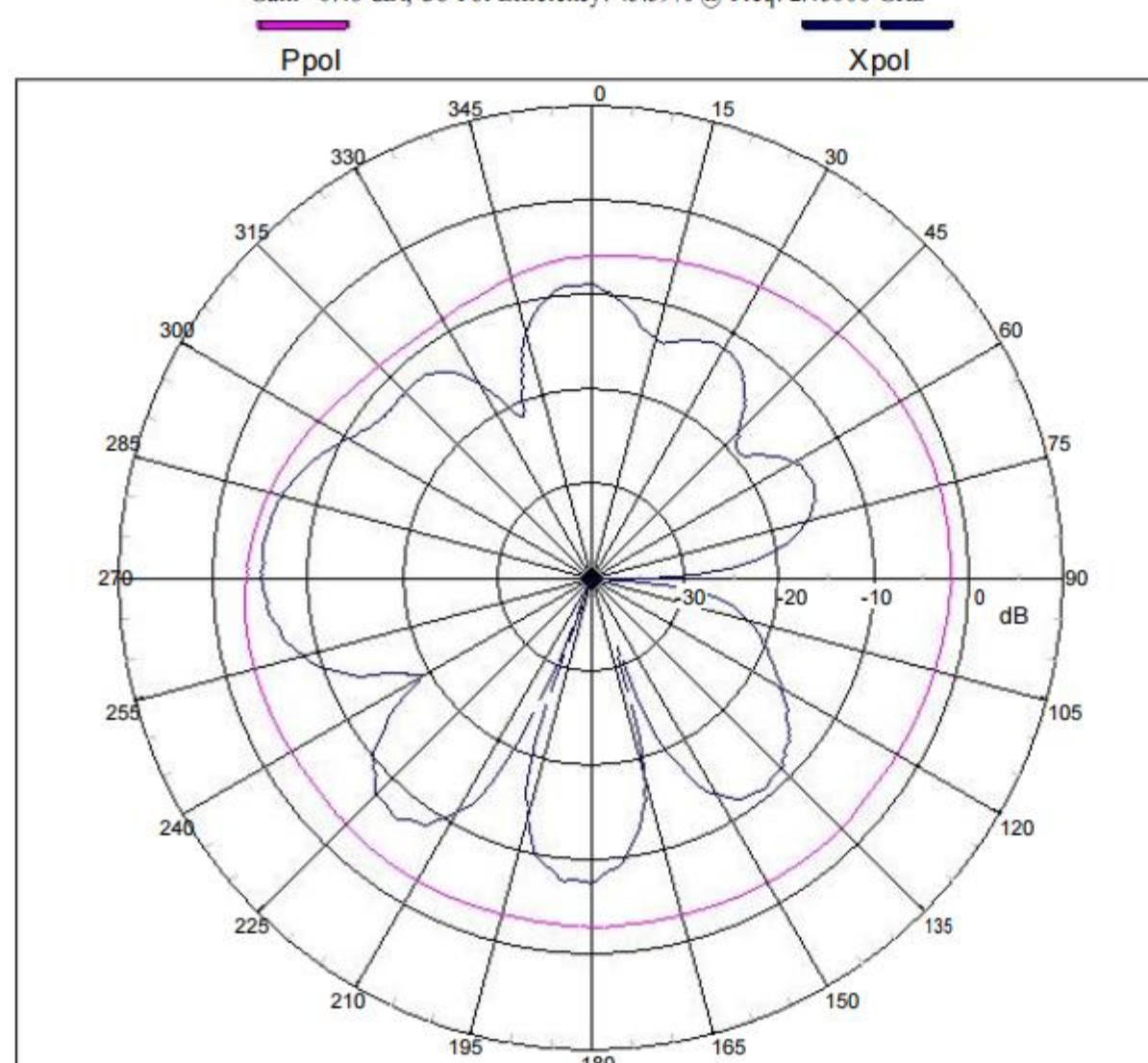
Far-field Power Distribution on X-Y Plane

Gain= 0.92 dBi; Total Radiating Efficiency: 46.51% @2.45000 GHz

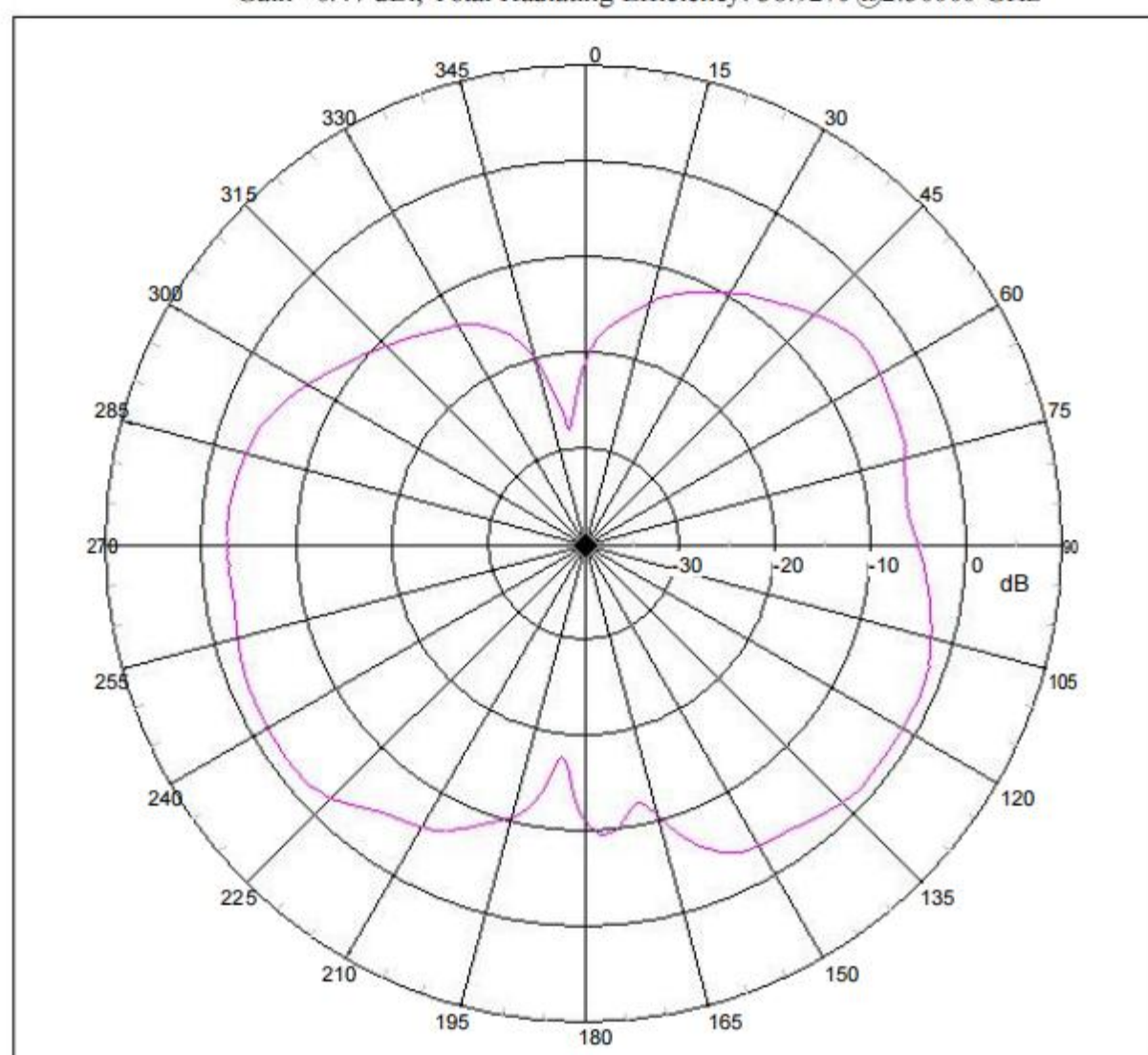


Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)

Gain= 0.48 dBi; Co-Pol Efficiency: 45.59% @ Freq: 2.45000 GHz

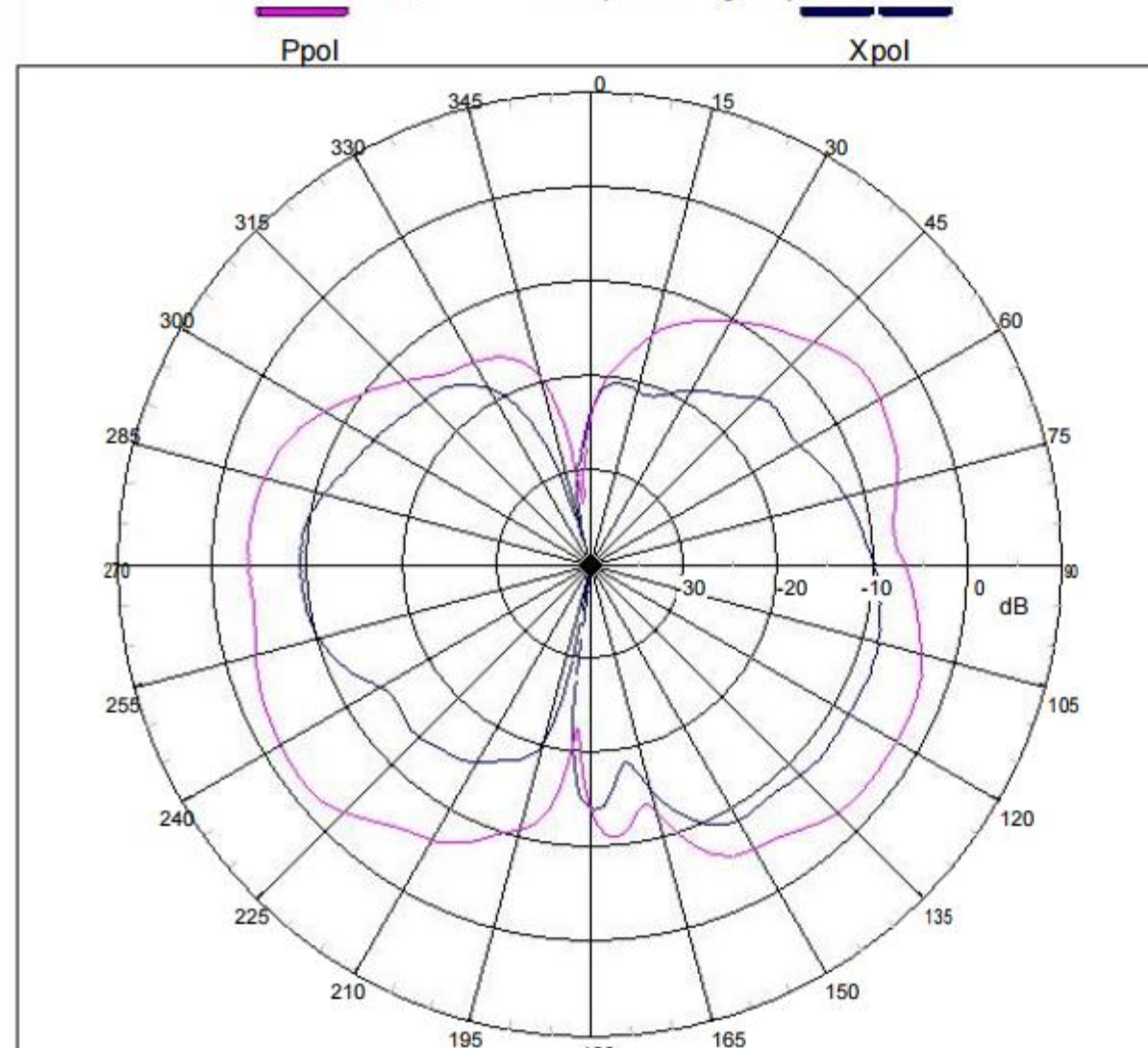


Far-field Power Distribution on X-Z Plane(E-Plane of L3 Pol Sense)  
Gain= 0.47 dBi; Total Radiating Efficiency: 38.92% @2.50000 GHz

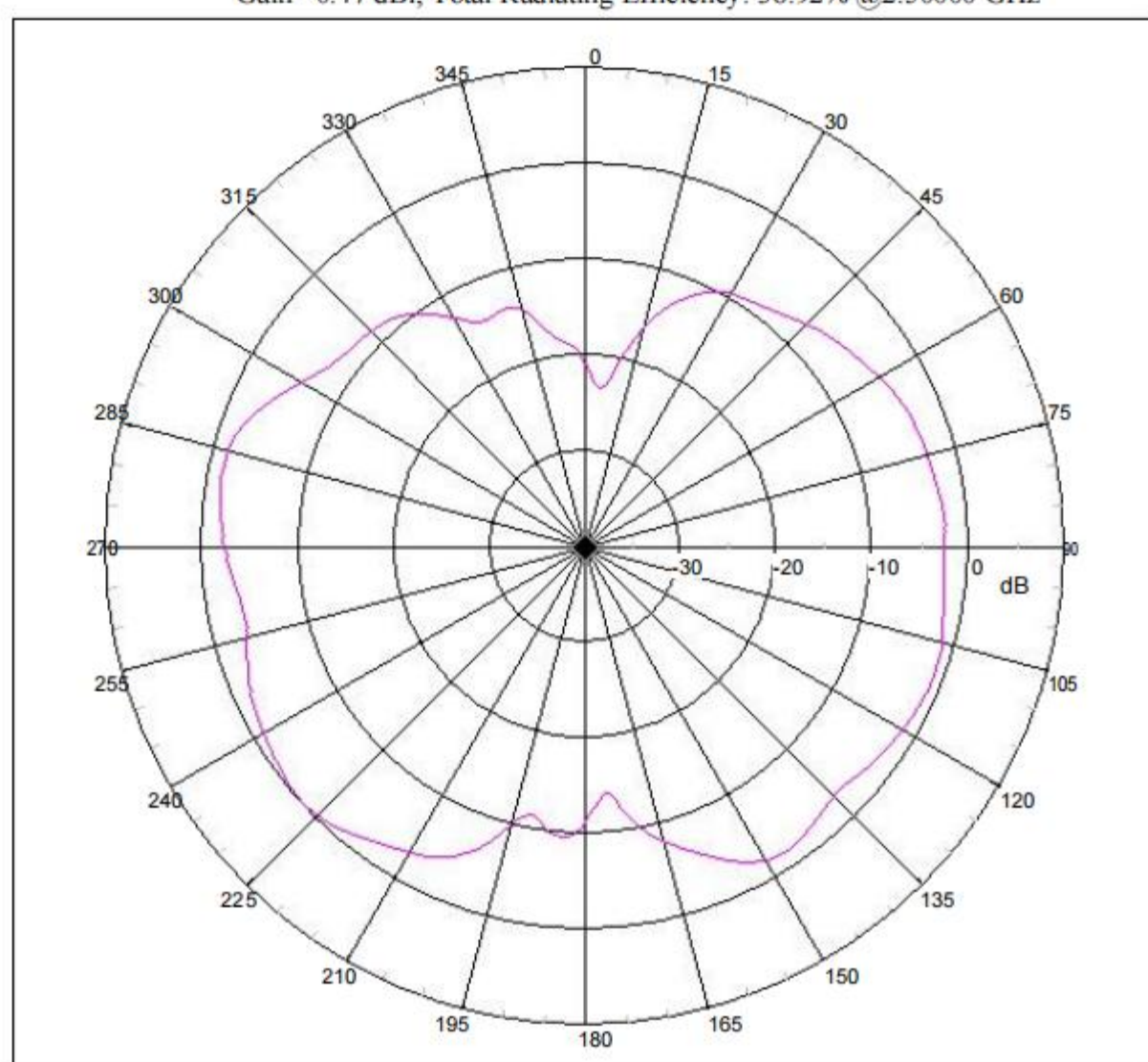


Far-field Pattern @ Phi=0 deg(E-Theta Plane-Cut)

Gain= -0.07 dBi; Co-Pol Efficiency: 36.61% @ Freq: 2.50000 GHz

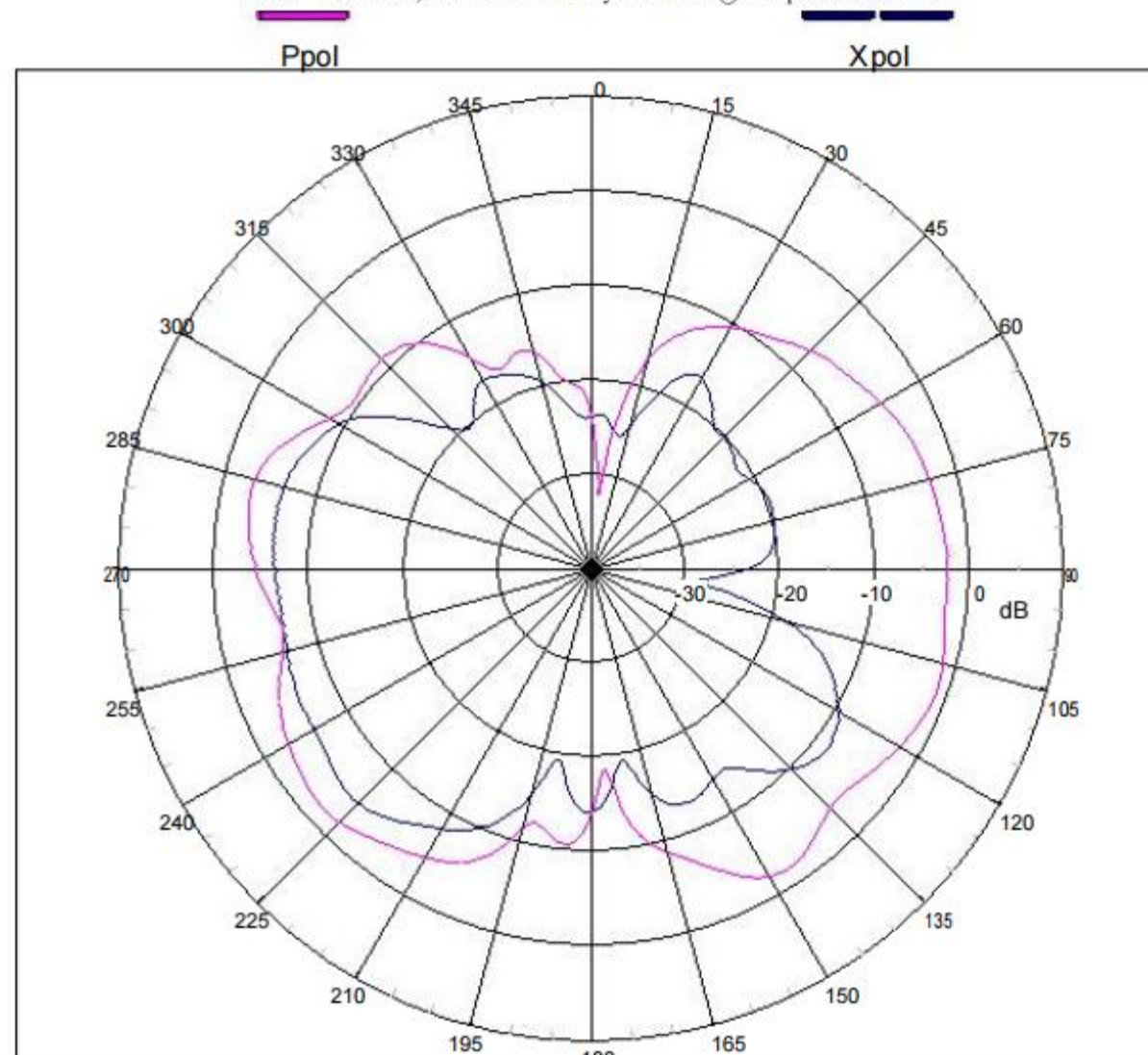


Far-field Power Distribution on Y-Z Plane(H-Plane of L3 Pol Sense)  
Gain= 0.47 dBi; Total Radiating Efficiency: 38.92% @2.50000 GHz



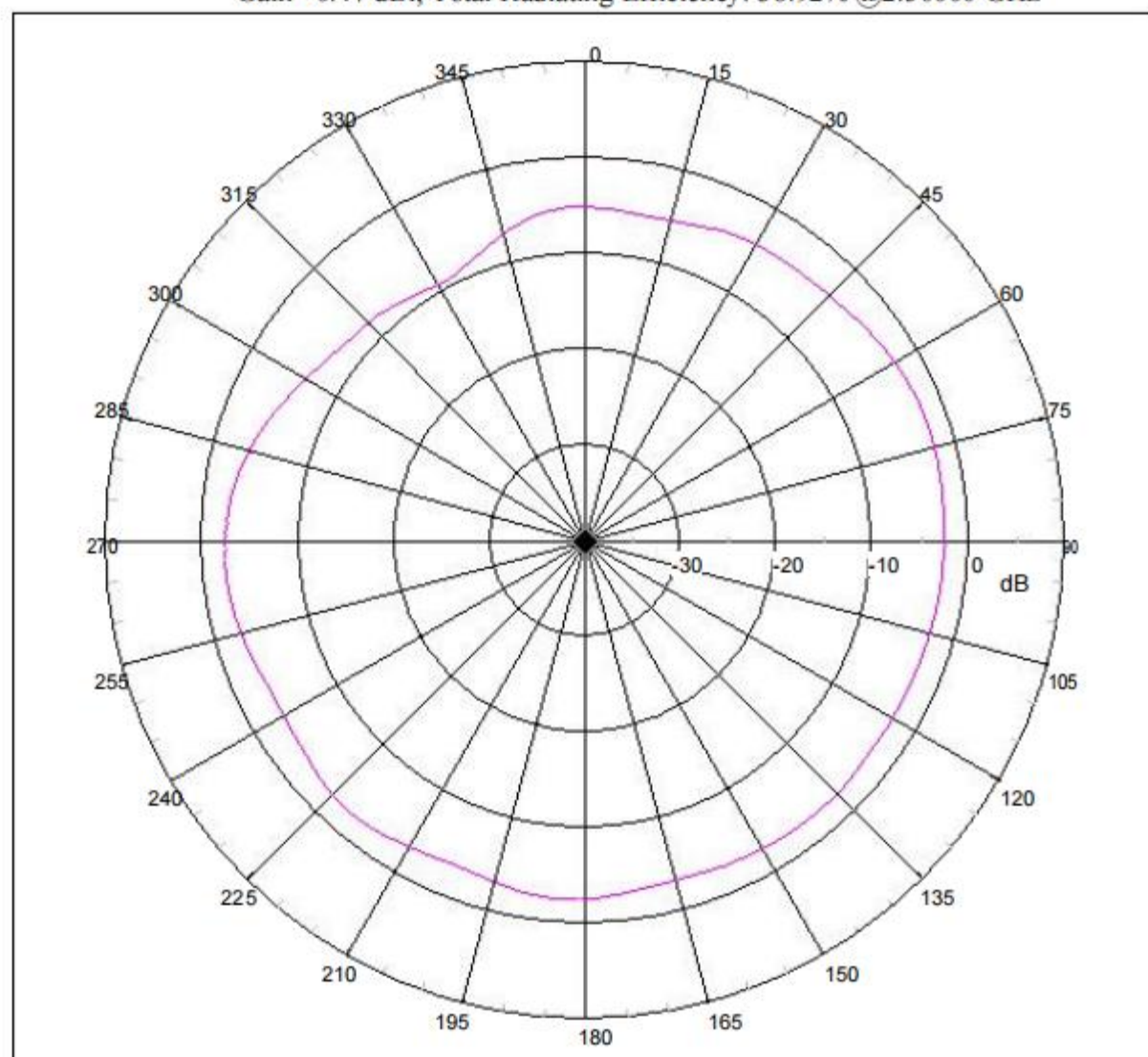
Far-field Pattern @ Phi=90 deg(E-Theta Plane-Cut)

Gain= -0.07 dBi; Co-Pol Efficiency: 36.61% @ Freq: 2.50000 GHz



Far-field Power Distribution on X-Y Plane

Gain= 0.47 dBi; Total Radiating Efficiency: 38.92% @2.50000 GHz



Far-field Pattern @ Theta=90 deg(E-Phi Plane-Cut)

Gain= -0.07 dBi; Co-Pol Efficiency: 36.61% @ Freq: 2.50000 GHz

