

## 698-960MHz Panel MiMO Antenna



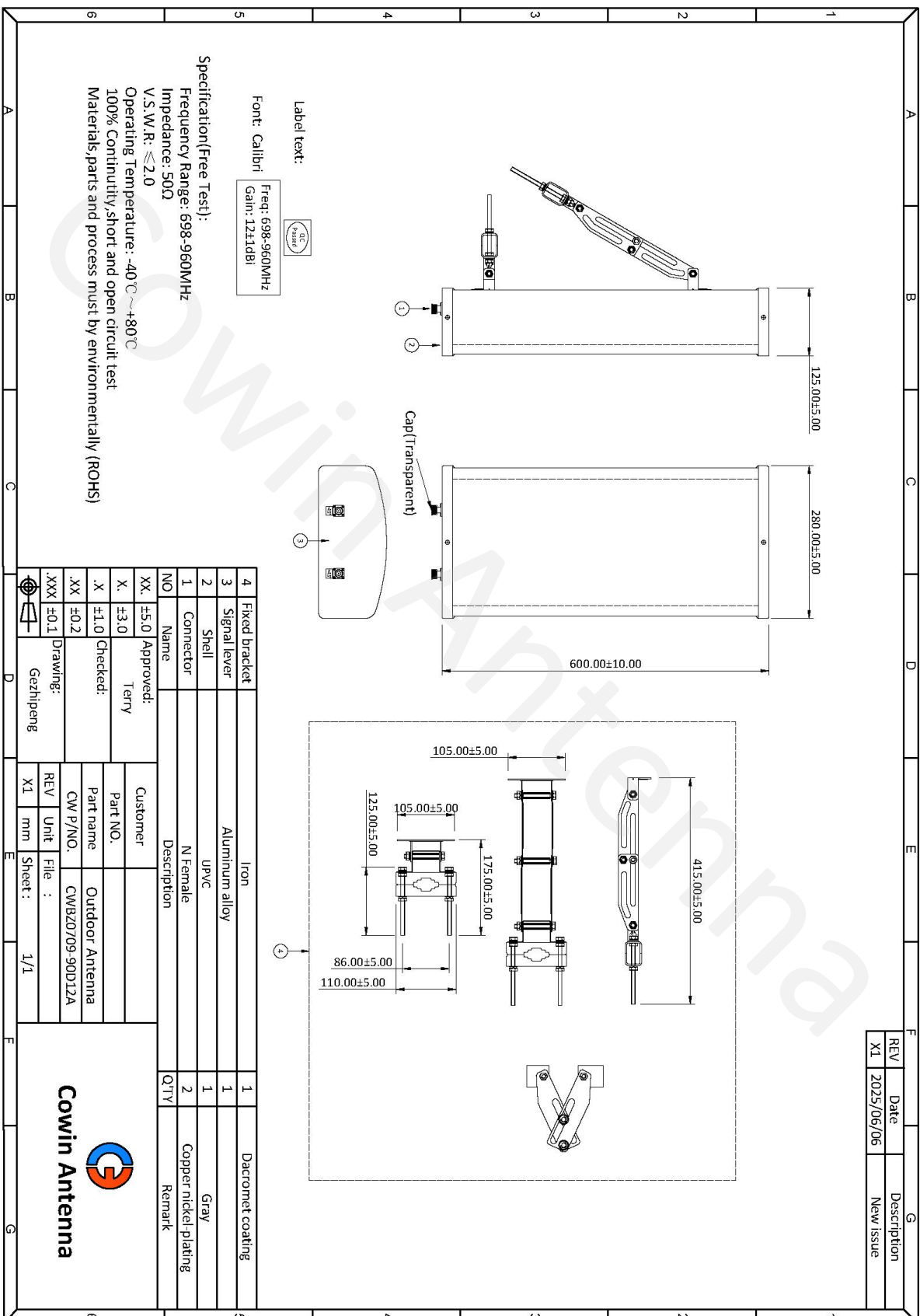
### Electrical Specifications 电性指标

|                                          |                       |
|------------------------------------------|-----------------------|
| Part Number 料号                           | CWBZ0709-90D12A       |
| Frequency Range 频率范围                     | 698-960MHz            |
| Bandwidth 带宽                             | 262MHz                |
| Peak Gain 峰值增益                           | 12±1dBi               |
| Radiation Direction 辐射方向                 | Directional           |
| Polarization 极化方式                        | ±45°                  |
| Electrical Downtilt 电下倾角                 | 0                     |
| Half Power Beamwidths 半功率波瓣宽度            | H: 90±10°<br>V: 35±5° |
| First Upper Sidelobe Suppression 第一上旁瓣抑制 | /                     |
| Front-to-rear ratio 前后比                  | ≥20dB                 |
| Impedance 输入阻抗                           | 50Ω                   |
| VSWR 电压驻波比                               | ≤1.5                  |
| Maximum Power 最大功率                       | 100W                  |
| Lightning Protection 雷电保护                | DC Grounding          |

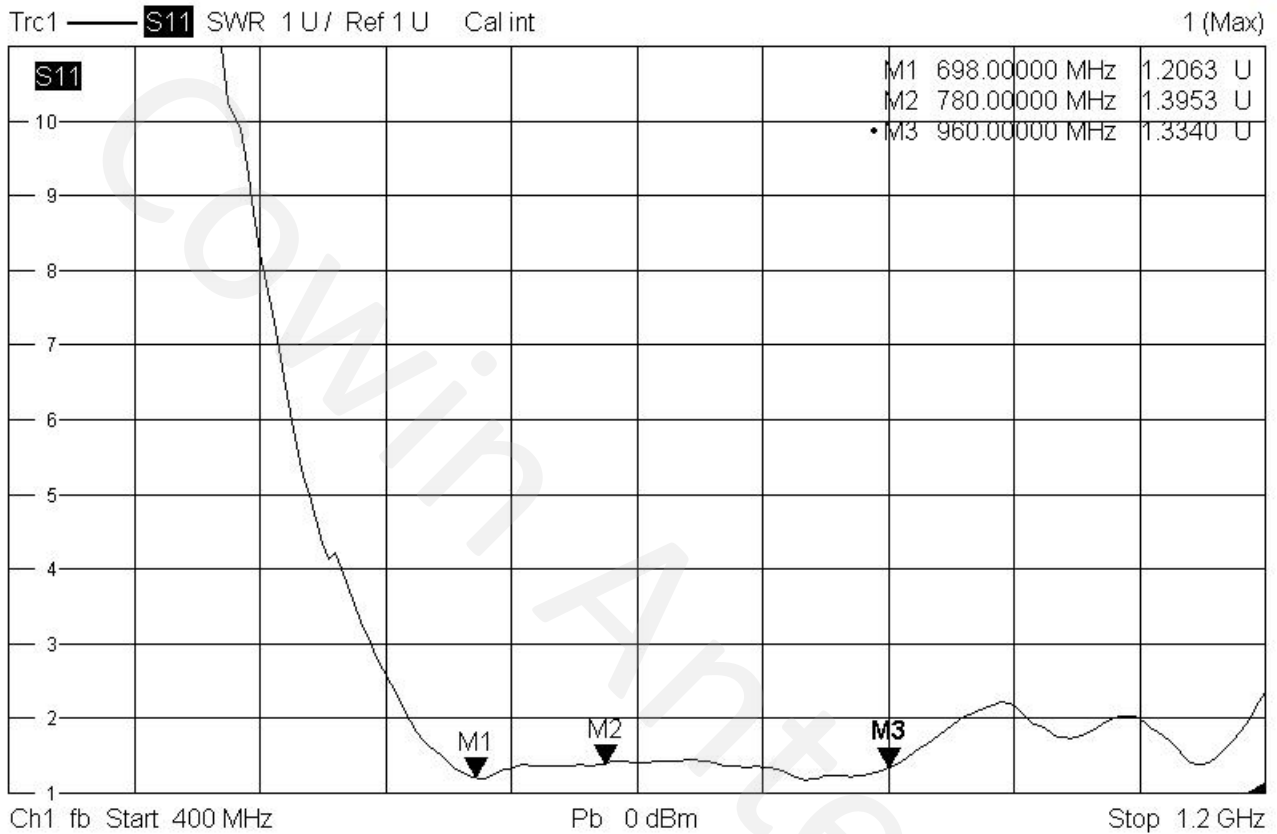
## Mechanical Specifications 机械性能

|                                           |               |
|-------------------------------------------|---------------|
| Connector Type 接头类型                       | 2*N Female    |
| Connector Position 接头位置                   | Bottom        |
| Cable type 线材类型                           | /             |
| Antenna Size 天线尺寸                         | 600*280*125MM |
| Antenna Weight 天线重量                       | 5.5KG         |
| Radome Material 外罩材料                      | UPVC          |
| Radome Colour 外罩颜色                        | Gray          |
| Mechanically Adjustable Tilt Angle 机械可调倾角 | 0-10°         |
| Temperature Range 温度                      | -40-60℃       |
| Extreme Wind Speed 极限风速                   | 60m/s         |
| Pole Diameter 抱杆直径                        | 50-75MM       |
| Mounting Method 安装方式                      | Pole Mount    |
| Mounting Model 安装件型号                      | /             |
| Environmental Standards 环保标准              | ROHS/REACH    |



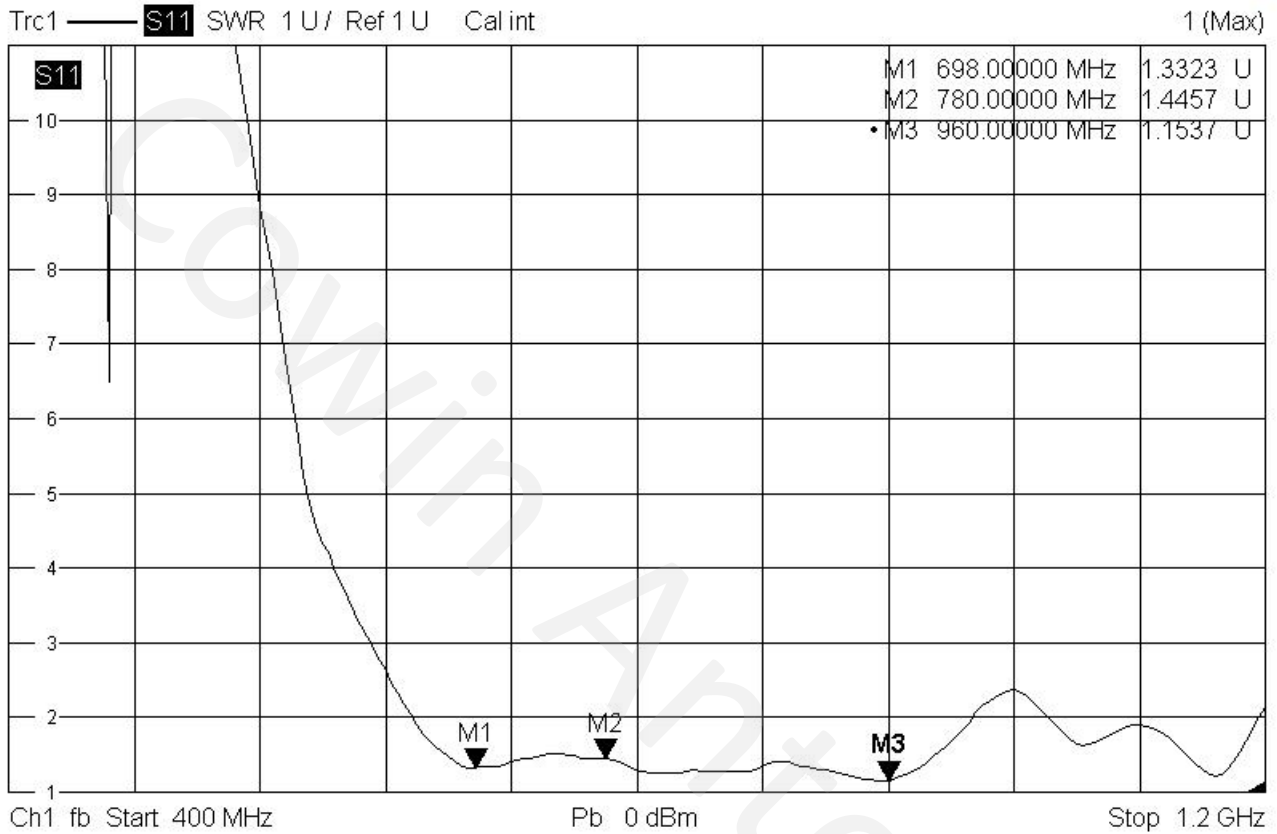


## V.S.W.R (+45)



5/31/2025, 10:47 AM

## V.S.W.R (-45)



5/31/2025, 10:49 AM

## Efficiency (+45)

| Frequency (MHz) | Efficiency (%) |
|-----------------|----------------|
| 690             | 66.14          |
| 735             | 67.62          |
| 780             | 60.65          |
| 825             | 69.23          |
| 870             | 60.09          |
| 915             | 61.84          |
| 960             | 64.95          |

## Efficiency (-45)

| Frequency (MHz) | Efficiency (%) |
|-----------------|----------------|
| 690             | 69.26          |
| 735             | 66.64          |
| 780             | 69.89          |
| 825             | 65.5           |
| 870             | 64.08          |
| 915             | 61.52          |
| 960             | 64.91          |

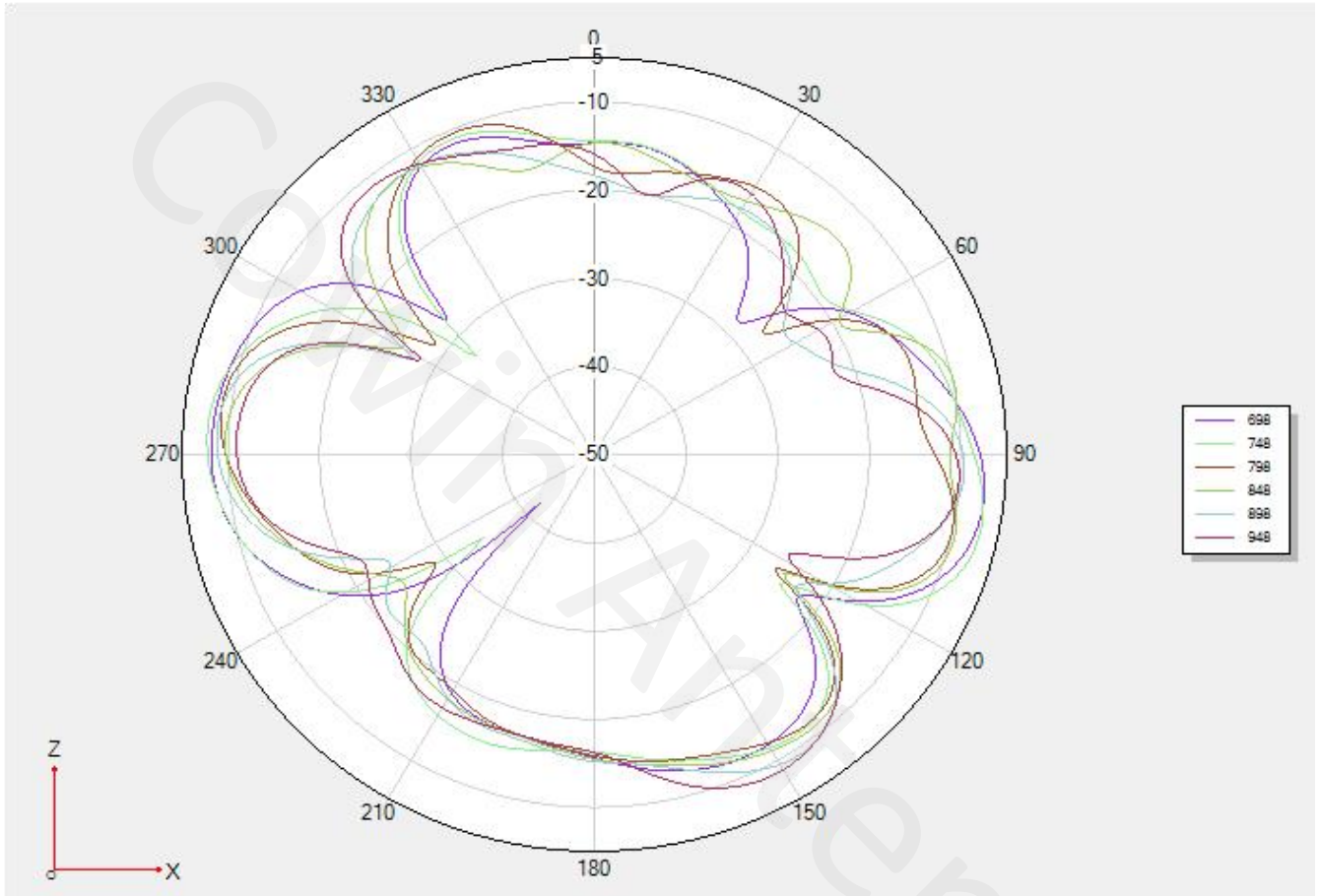
## Peak Gain (+45)

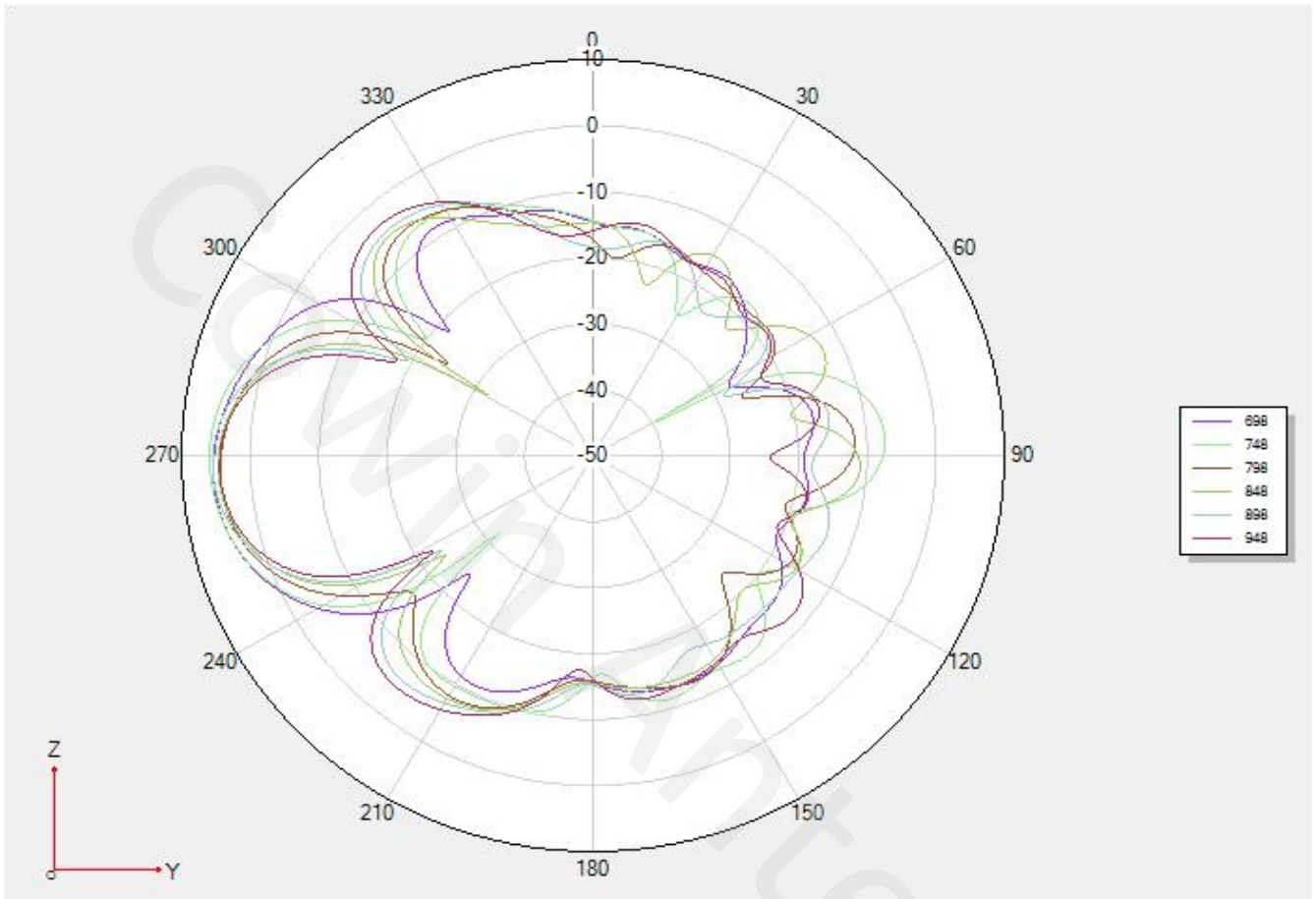
| Frequency (MHz) | Max Gain (dBi) |
|-----------------|----------------|
| 690             | 11.4           |
| 735             | 11.54          |
| 780             | 11.43          |
| 825             | 11.72          |
| 870             | 11.52          |
| 915             | 11.53          |
| 960             | 1.38           |

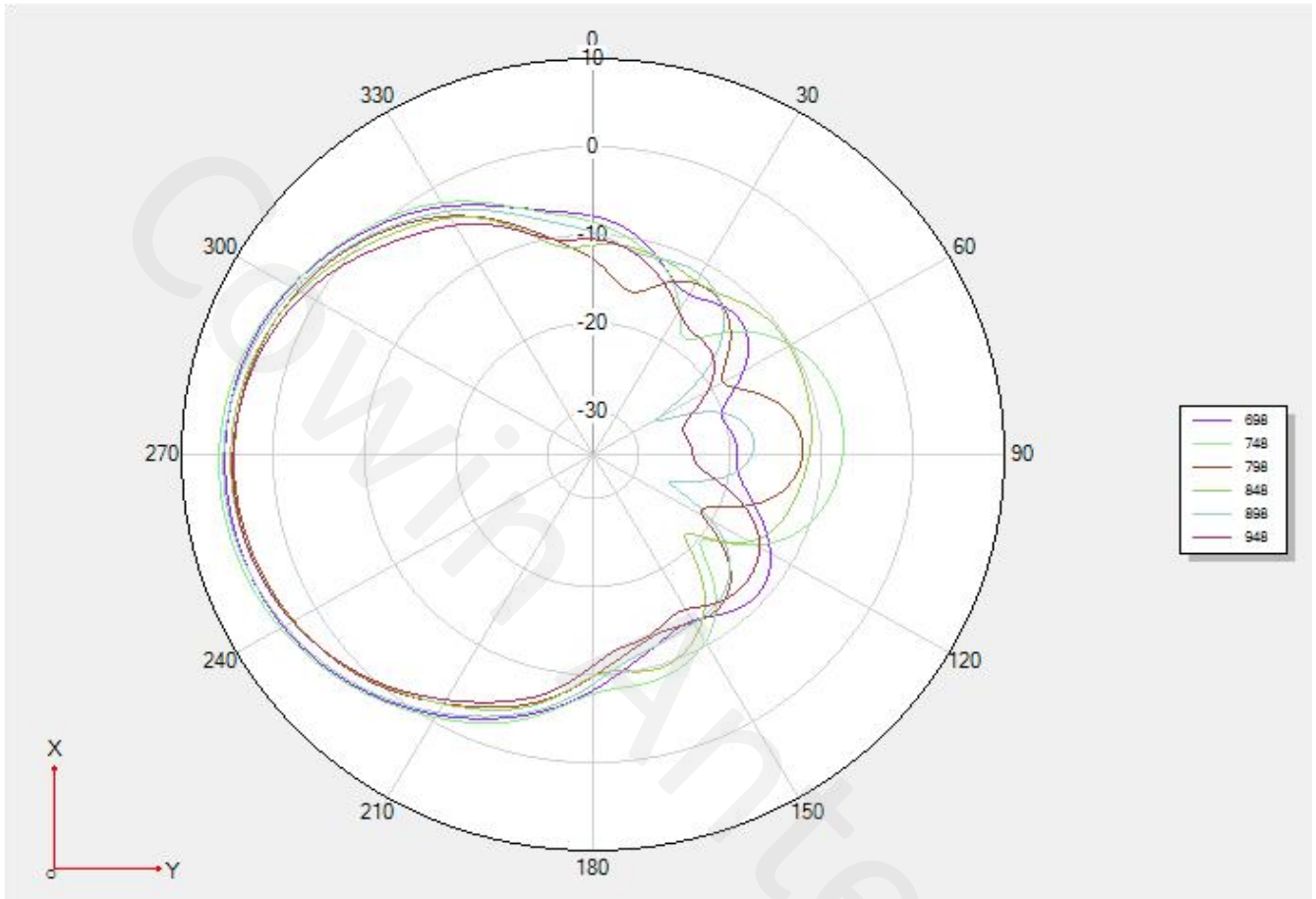
## Peak Gain (-45)

| Frequency (MHz) | Max Gain (dBi) |
|-----------------|----------------|
| 690             | 11.62          |
| 735             | 11.25          |
| 780             | 11.25          |
| 825             | 11.93          |
| 870             | 11.35          |
| 915             | 11.58          |
| 960             | 11.36          |

## 2D Radiation Patterns (+45)







## 2D Radiation Patterns (-45)

