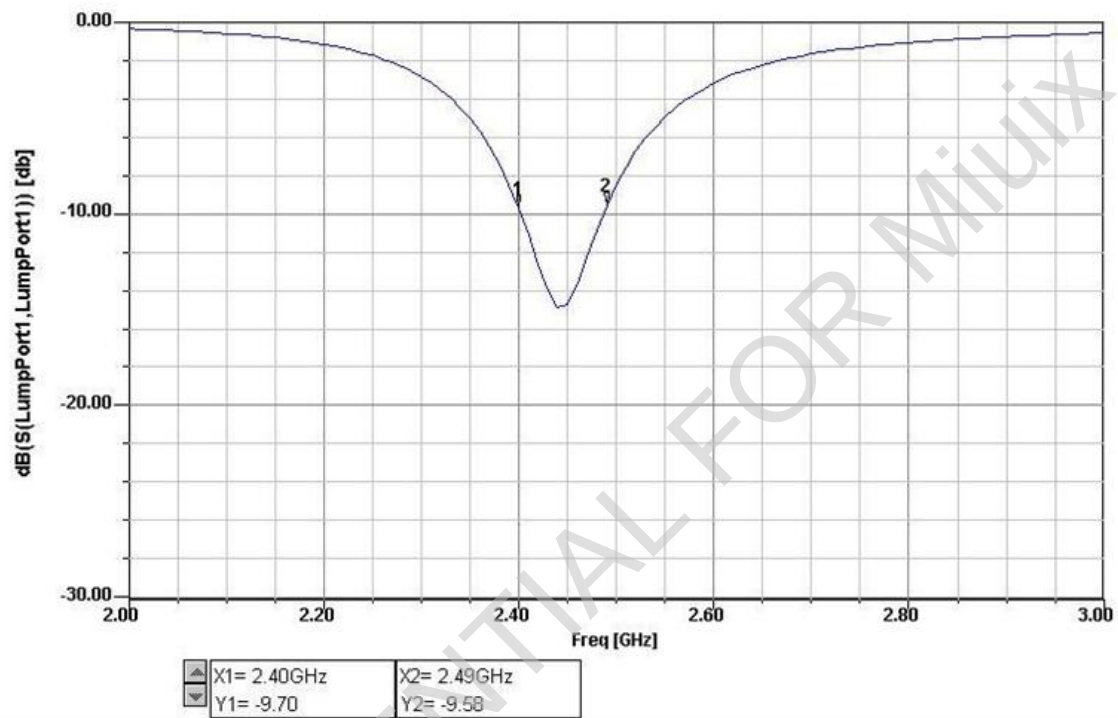


## 3.7 ANTENNA SPECIFICATION:

### 3.7.1 RETURN LOSS

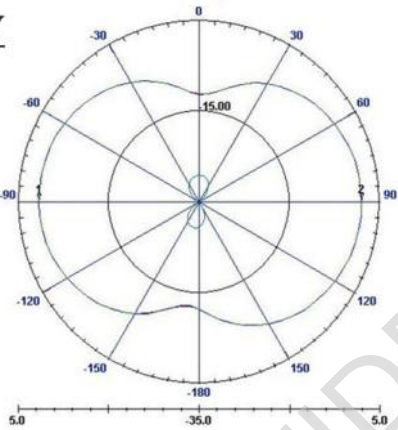
BW(RL<10dB) : 90 MHz



### 3.7.2 PCB ANTENNA RADIATION PATTERNS

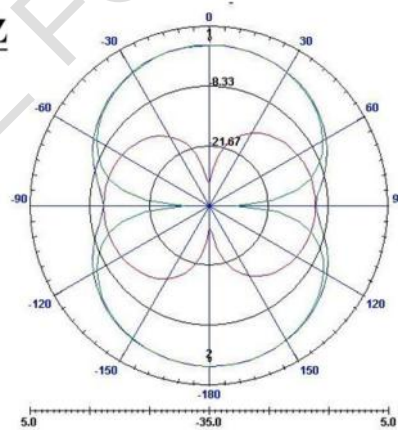


**XY**



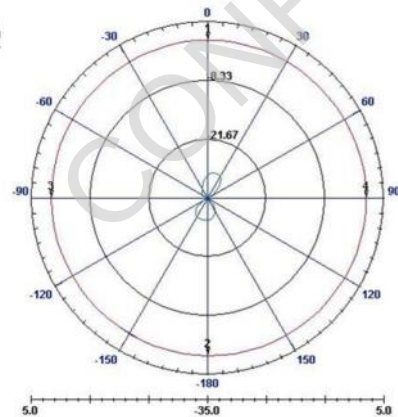
|             |
|-------------|
| M1= 0.458   |
| P1= 270.000 |
| 270.000deg  |
| M2= 0.944   |
| P2= 90.000  |
| 90.000deg   |

**XZ**



|             |
|-------------|
| M1= 0.753   |
| P1= 0.000   |
| 0.000deg    |
| M2= 0.855   |
| P2= 180.000 |
| 180.000deg  |

**YZ**



|             |
|-------------|
| M1= 0.753   |
| P1= 360.000 |
| 360.000deg  |
| M2= 0.855   |
| P2= 180.000 |
| 180.000deg  |
| M3= 0.458   |
| P3= 270.000 |
| 270.000deg  |
| M4= 0.944   |
| P4= 90.000  |
| 90.000deg   |

Gain unit in dBi

**Efficiency : 76%**  
**Peak Gain : 0.944 dBi**  
**Avg. Gain : -1.2 dBi**