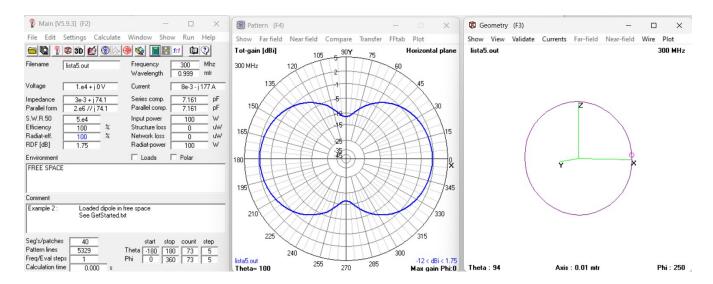
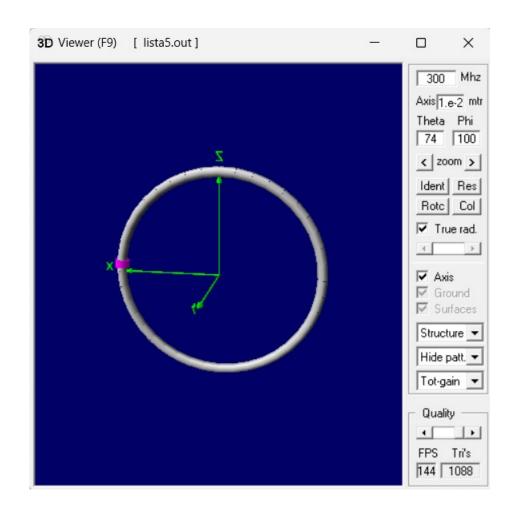
Tópicos avançados em comunicação LISTA 5 Gabriel Ferreira da Silva

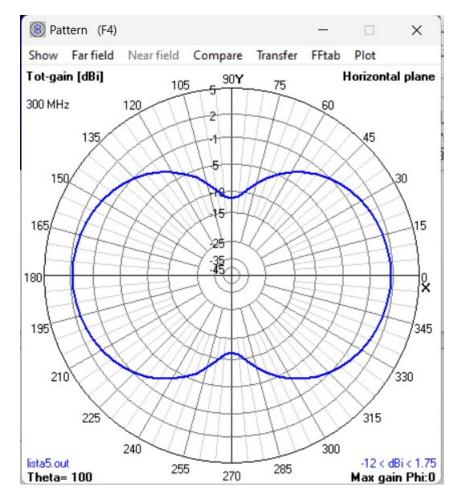
1. Far field



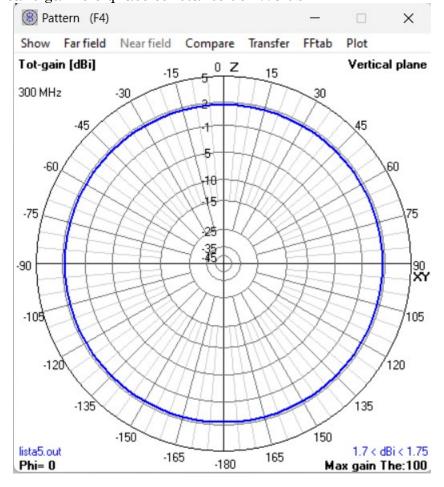
plot 3d



2. No plano paralelo ao loop temos ganho de 1.75 dbi

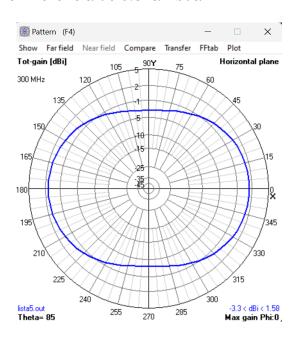


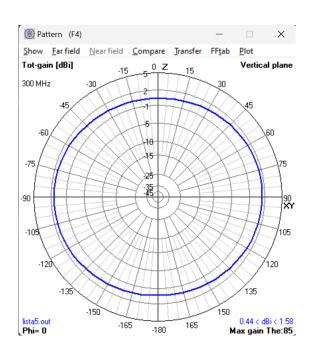
No plano vertical o ganho é quase constante de 1.75 dbi



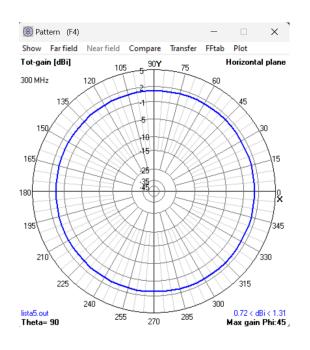
| N° de segmentos | 9 | 21 | 31 | 41 | 101 |
|--------------------|---------------|---------------|-----------|-------------|-------------|
| Impedância | 0.003 + j71.6 | 0.003 + j73.7 | 0.003+j74 | 0.003+j74.1 | 0.003+j74.5 |

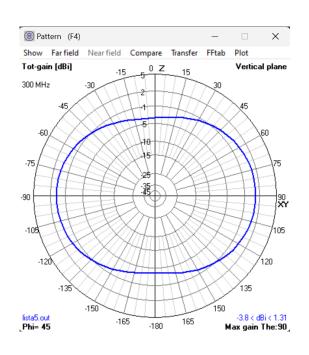
4. Circunferência de 0.3 lambda



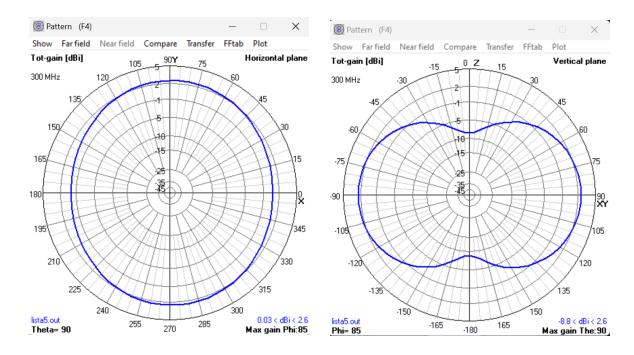


Circunferência de 0.6 lambda

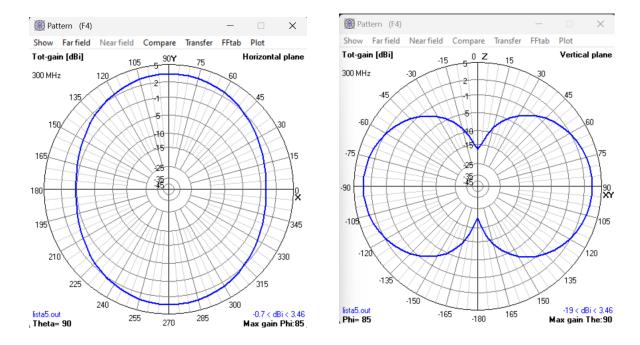




Circunferência de 0.8 lambda



Circunferência de 1 lambda



5.

| N° de segmentos | 19 | 31 | 41 | 51 | 101 |
|--------------------|------------|-------------|------------|-------------|-----------|
| Impedância | 125 - j108 | 124 - j99.5 | 123- j97.3 | 123 - j96.3 | 122 - j95 |