

Helical Antenna with Grid Reflector

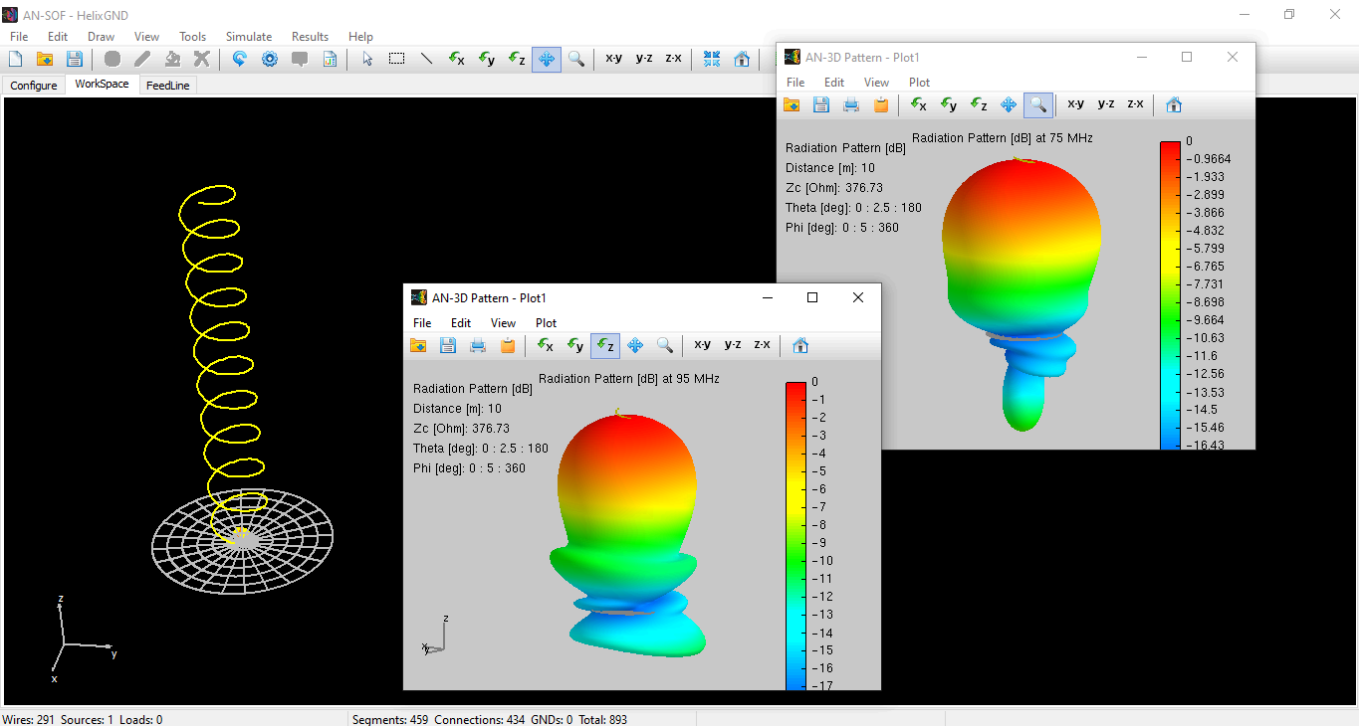
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Frequency sweep simulation of a directional helix antenna backed by a ground plane of finite size.

The ground plane is modeled using a circular grid of thin wires.

A directional radiation pattern is obtained pointing towards the helix axis as can be expected since the helix size (diameter and number of turns) was set according to the theoretical helix formula. The radiation pattern and gain are almost constants within the frequency range.



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