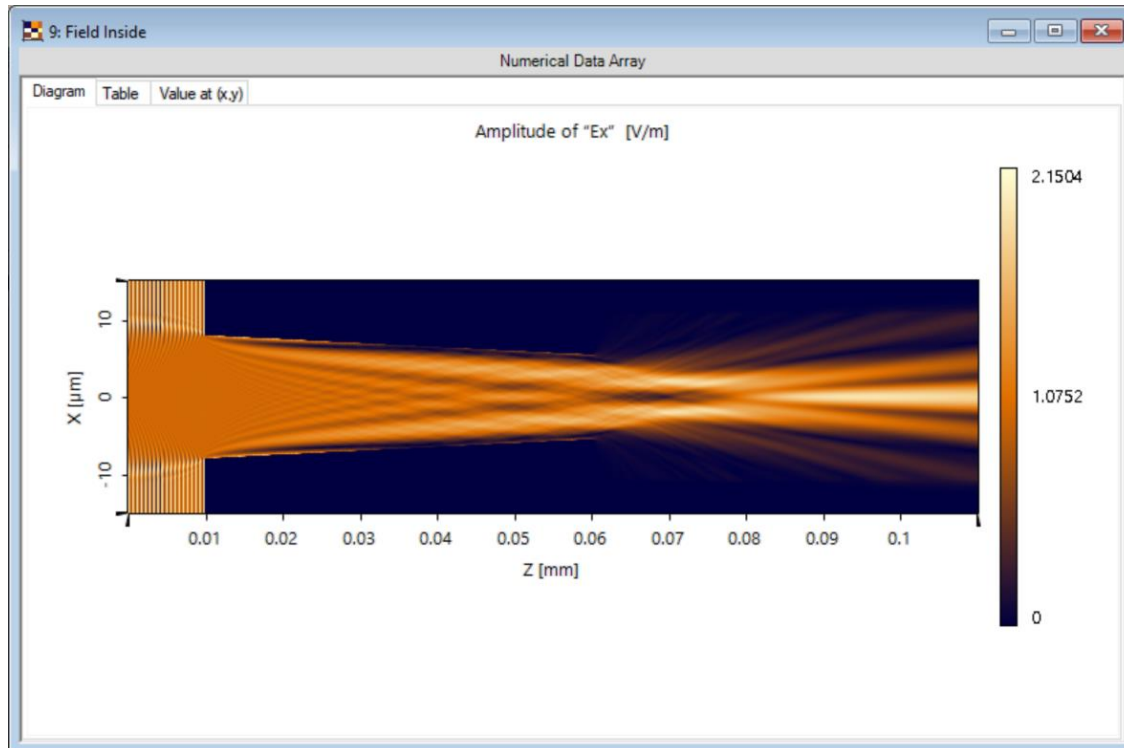


VLF Demo

Propagation through Uneven Pinhole

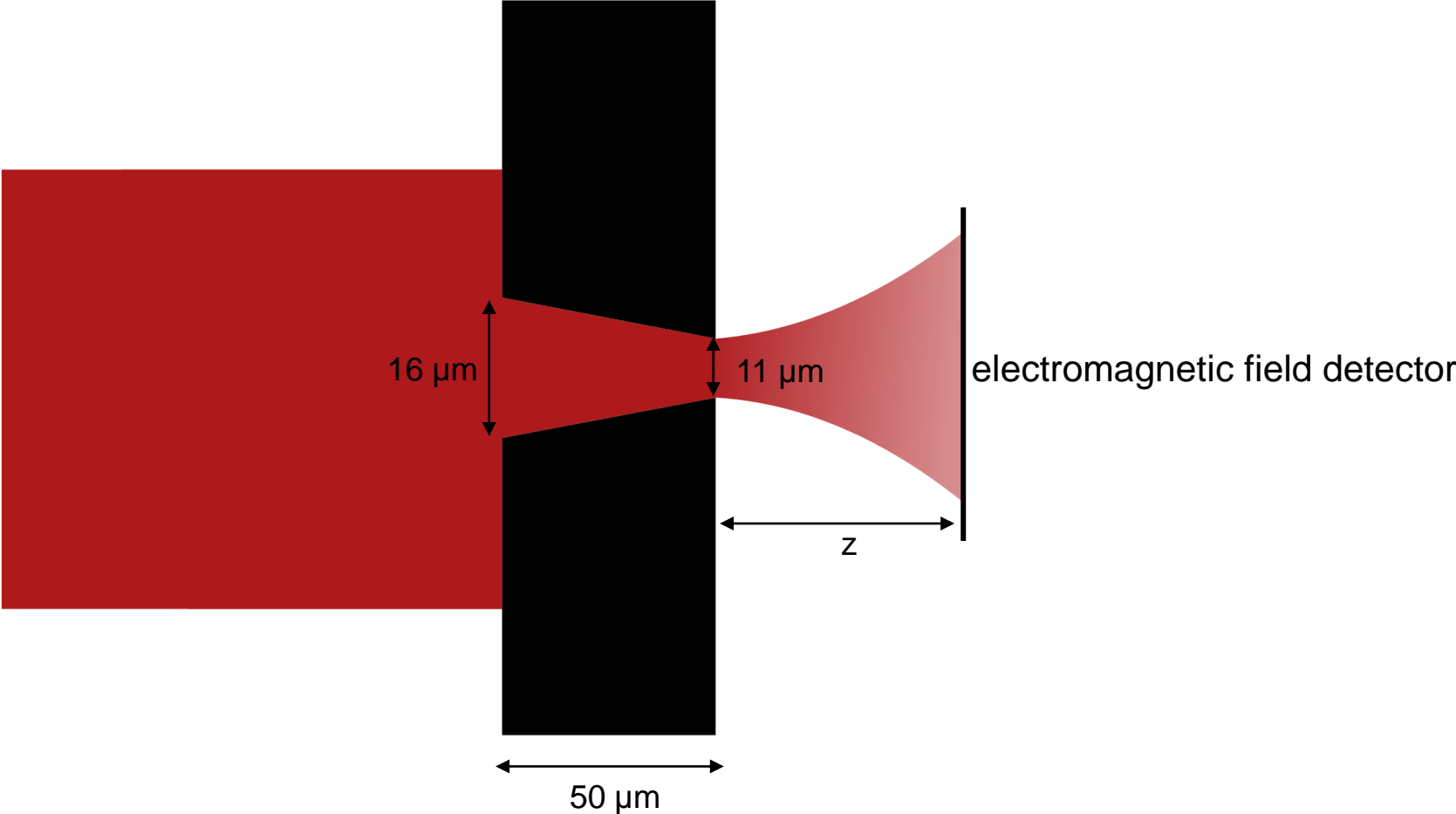
Abstract



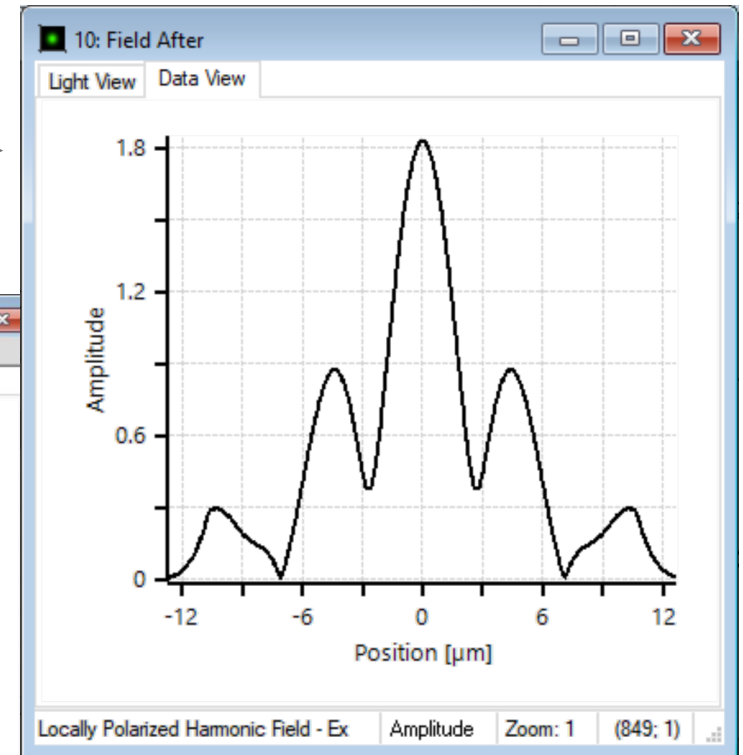
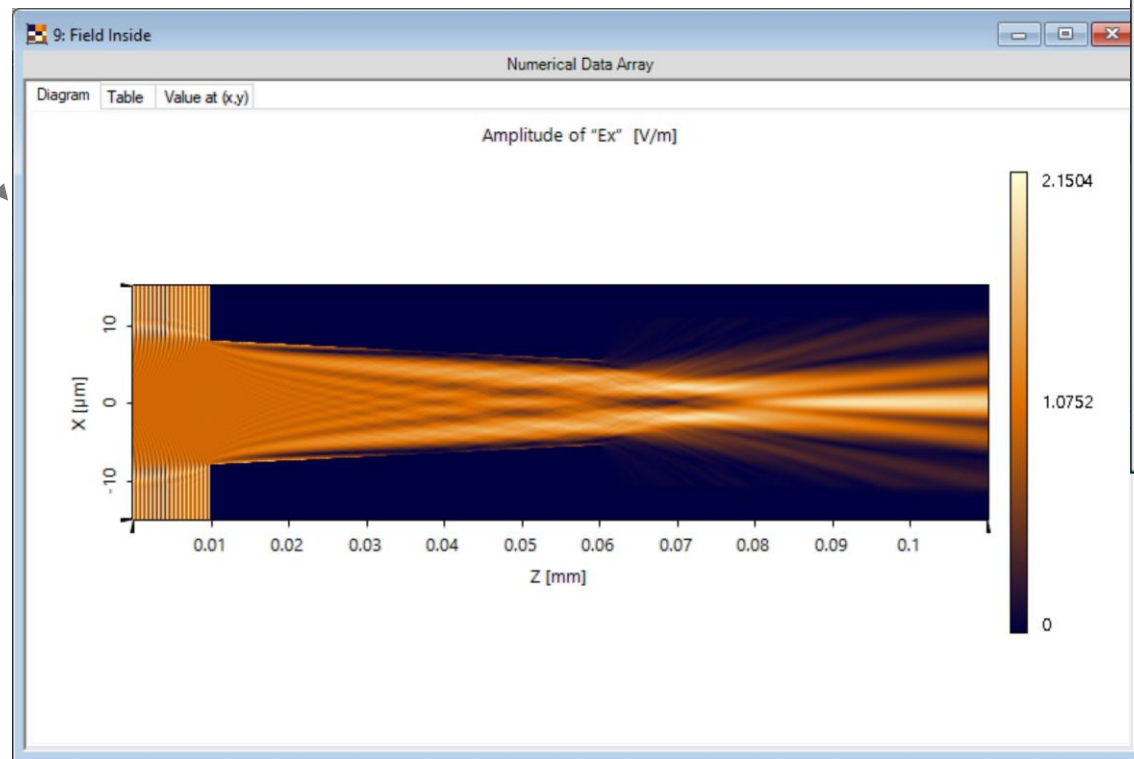
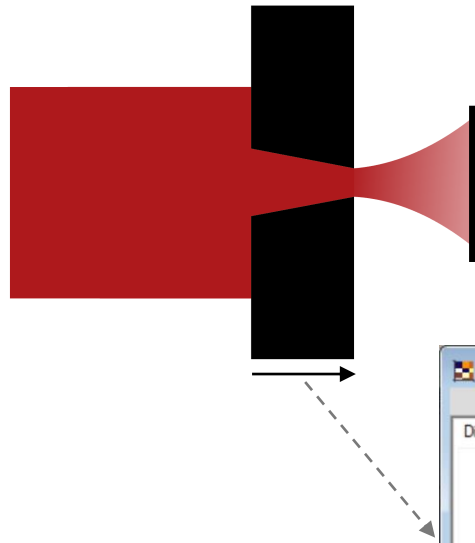
This demonstration shows the propagation of an electro-magnetic field through an uneven pinhole. The pinhole is $50 \mu\text{m}$ thick and has the shape of a truncated cone with a base diameter of $16 \mu\text{m}$ and a top of $11 \mu\text{m}$. It is possible to show the field inside the component as well as the field propagating after the pinhole. The propagation was handled by Fourier modal method (FMM) with perfect matched layers (PML). In order to save computation time, the input field and component was restricted to 2D.

Task Description

plane wave
• 532 nm



Field Tracing Results



Document Information

title	Propagation through an Uneven Pinhole
document code	Demo.0035
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VL version used for simulations	VirtualLab Fusion 2020.1
category	Demo
further reading	
