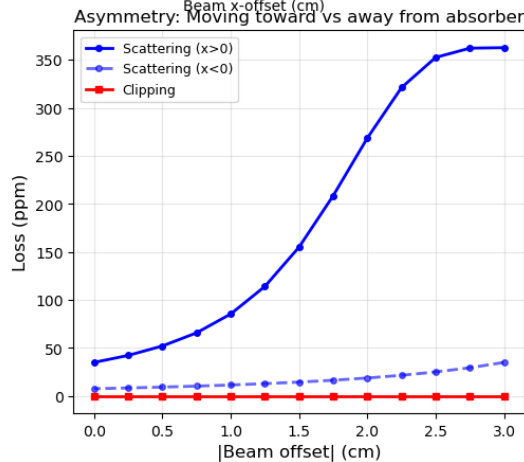
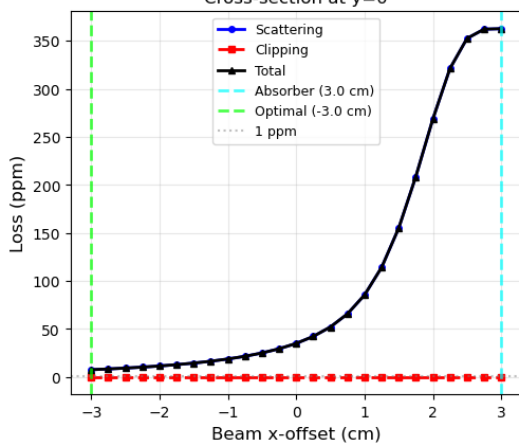
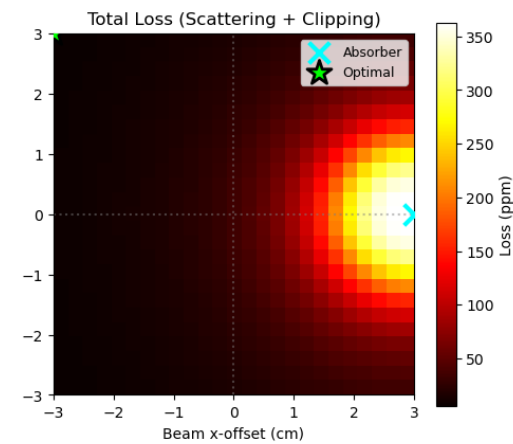
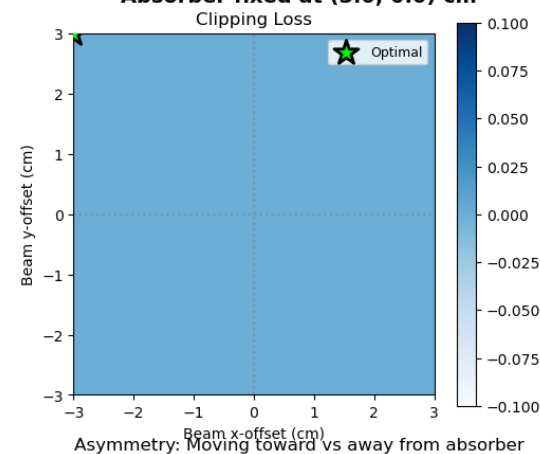
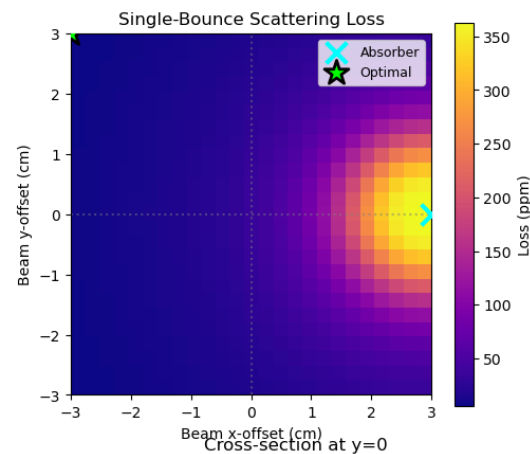


2D BEAM POSITION SCAN: Single-Bounce Method

Absorber fixed at (3.0, 0.0) cm



2D SCAN RESULTS (ppm units)

Absorber Position:
(3.0, 0.0) cm from center

Optimal Beam Position:
(-3.00, 3.00) cm

Loss at Optimal Position:
• Scattering: 5.87 ppm
• Clipping: 0.00 ppm
• Total: 5.87 ppm

Loss at Center (0, 0):
• Scattering: 34.98 ppm
• Clipping: 0.00 ppm
• Total: 34.98 ppm

Loss at Absorber Position:
3.0 cm exceeds scan range (± 3 cm)
→ Demonstrates need for reduced range!

INTERPRETATION:
The optimal position is AWAY from the absorber because scattering loss decreases with distance, but clipping loss increases at edges. The optimum balances these two effects.