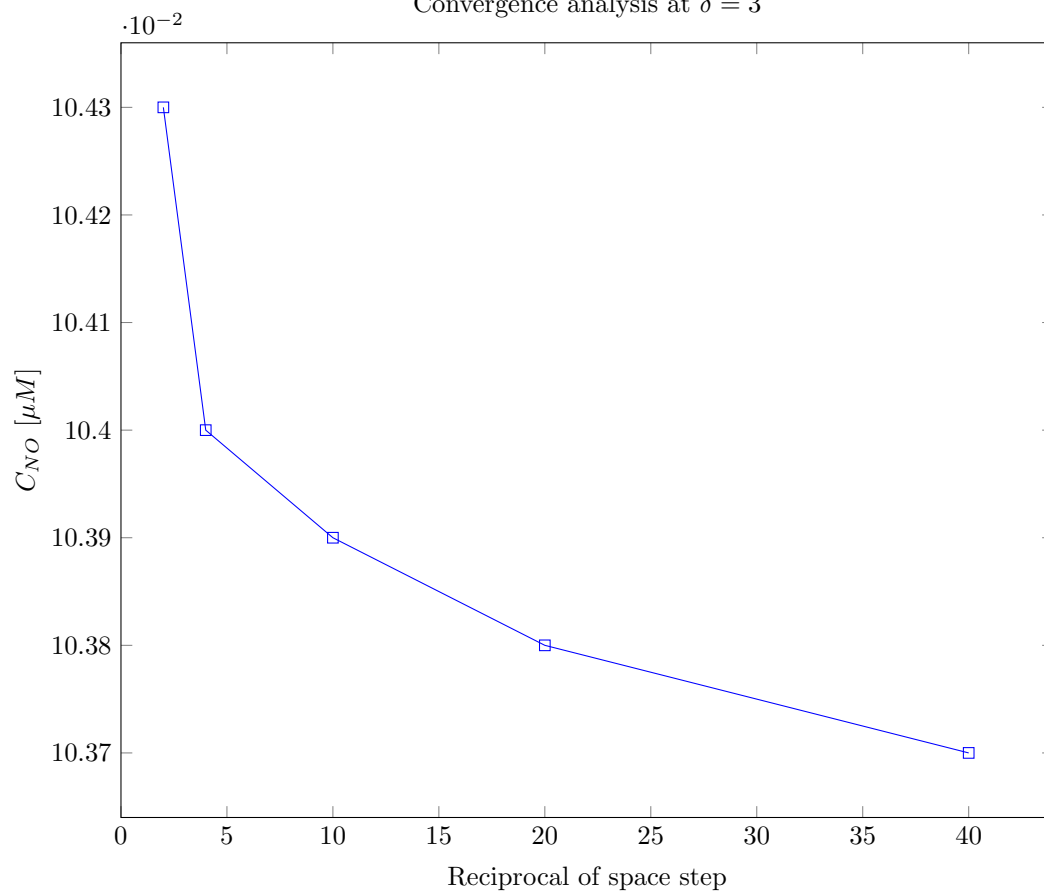
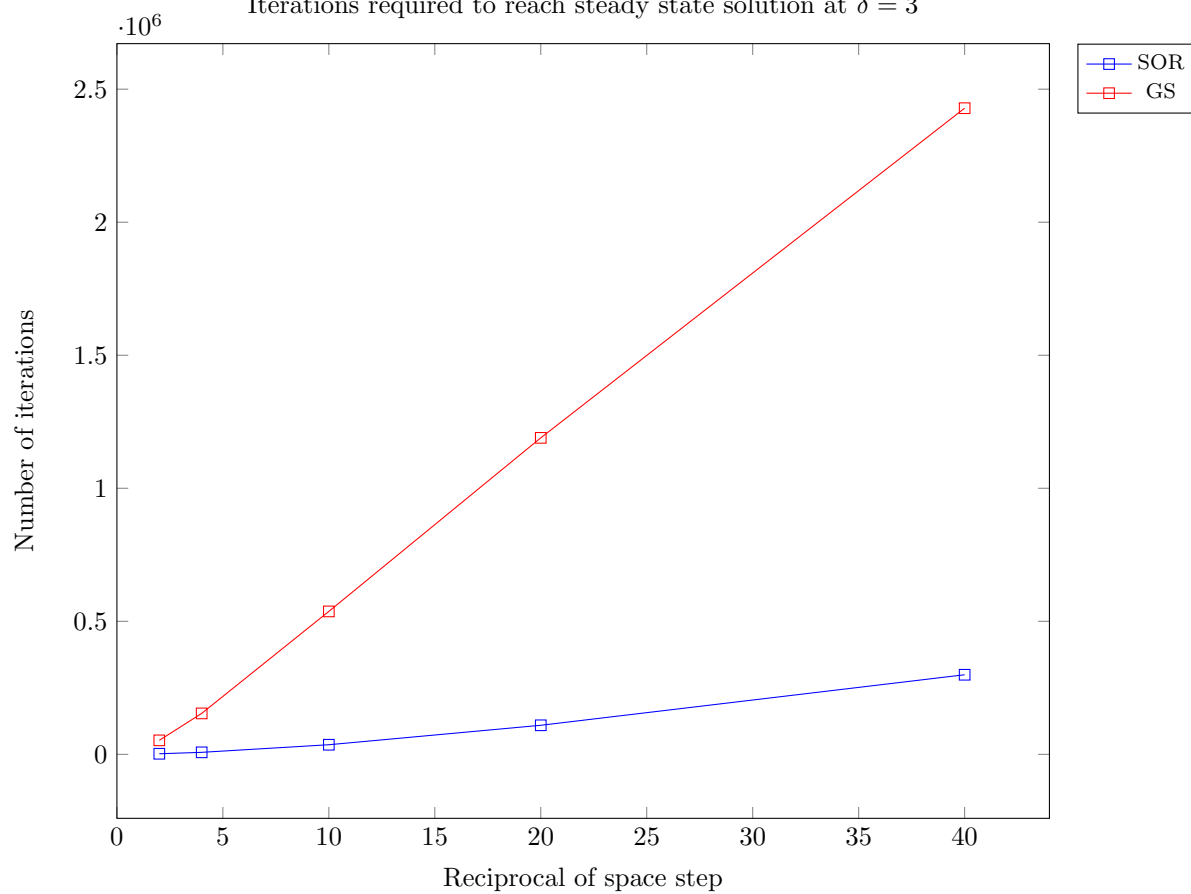
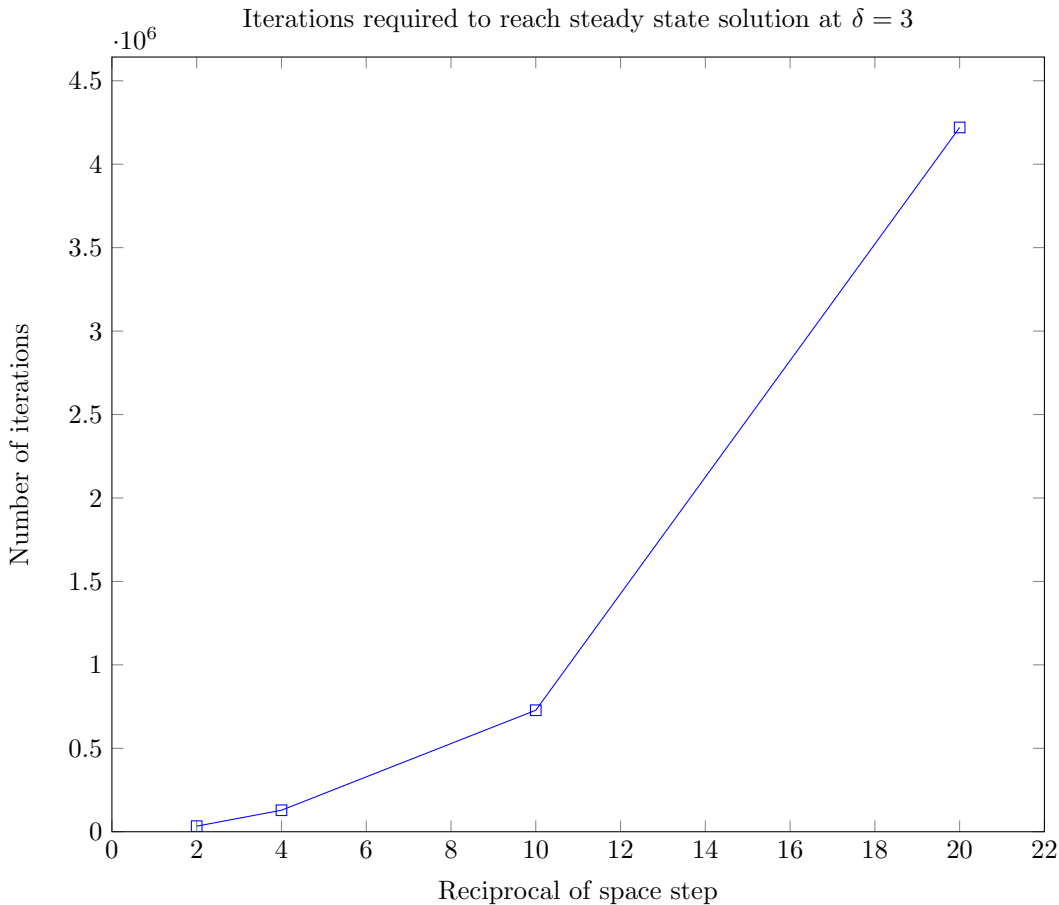
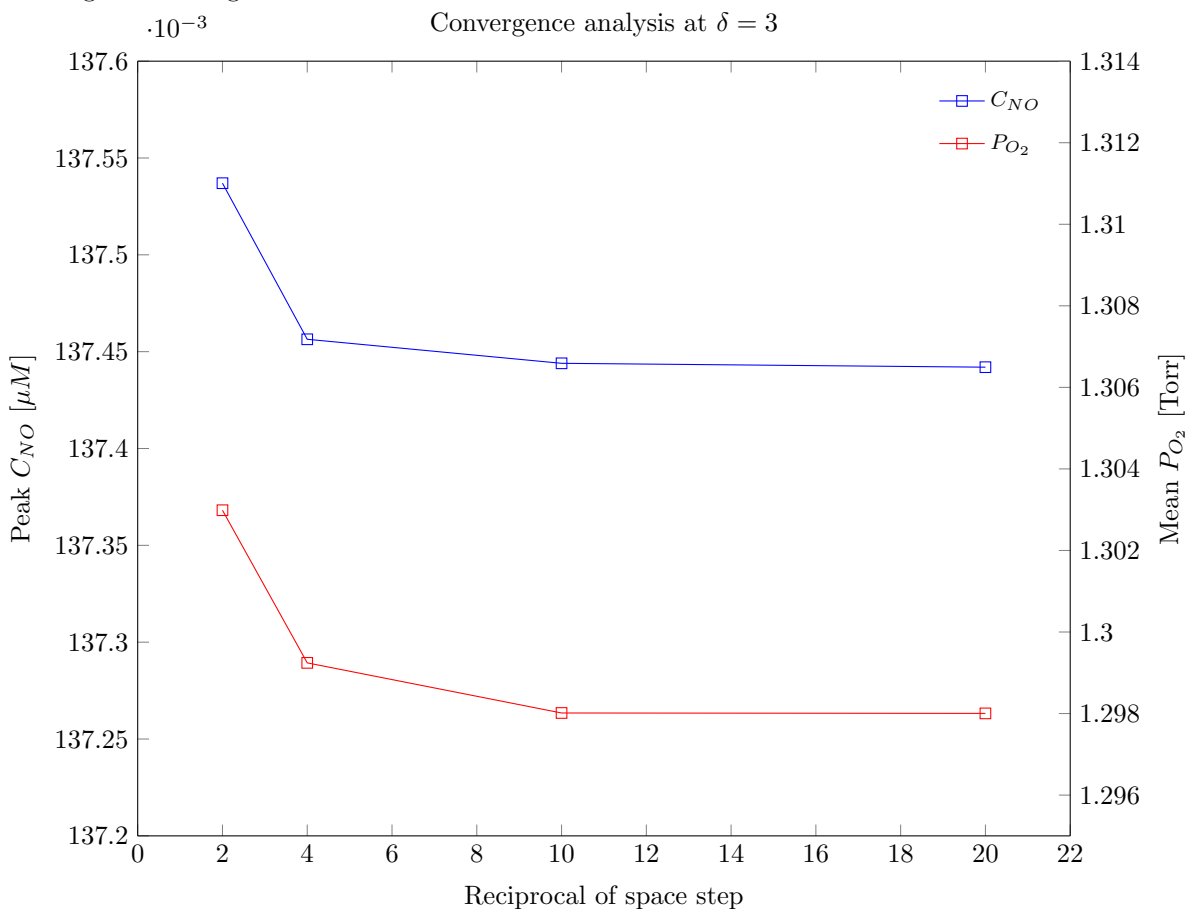
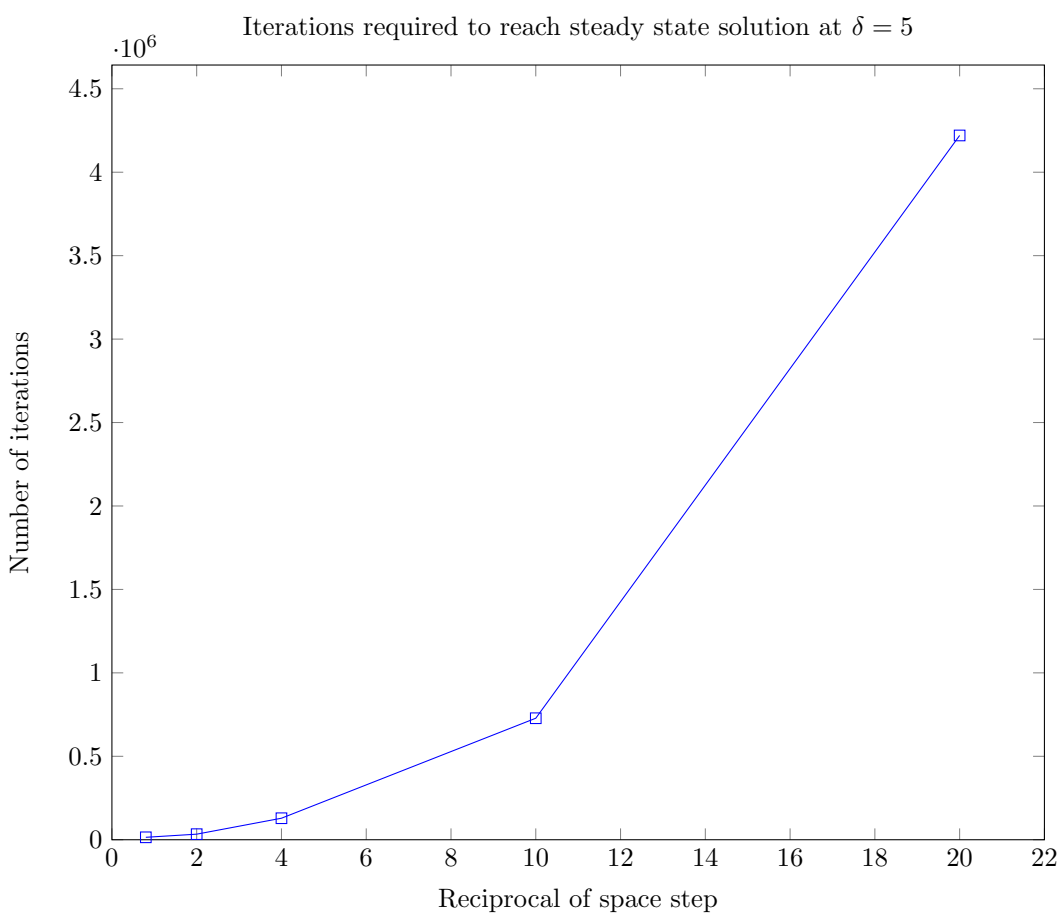
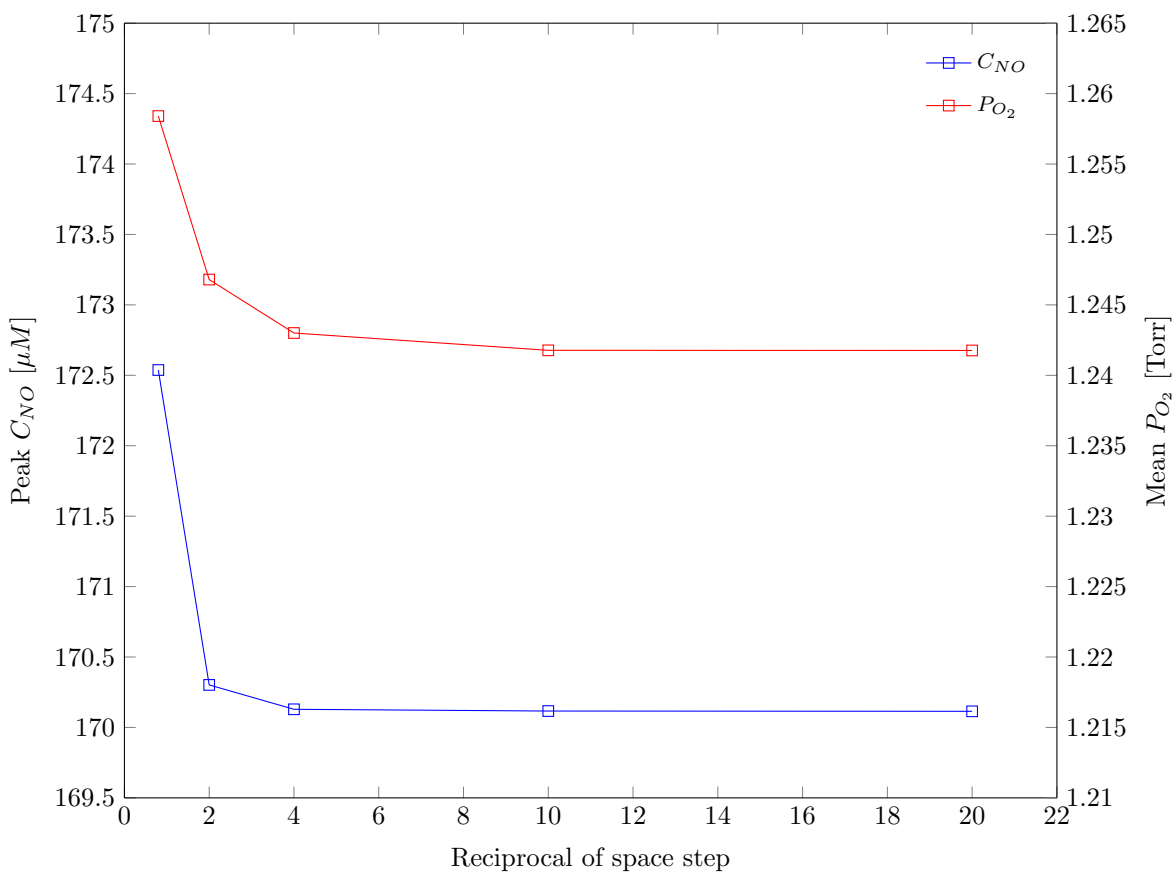


Convergence analysis at $\delta = 3$ Iterations required to reach steady state solution at $\delta = 3$ 

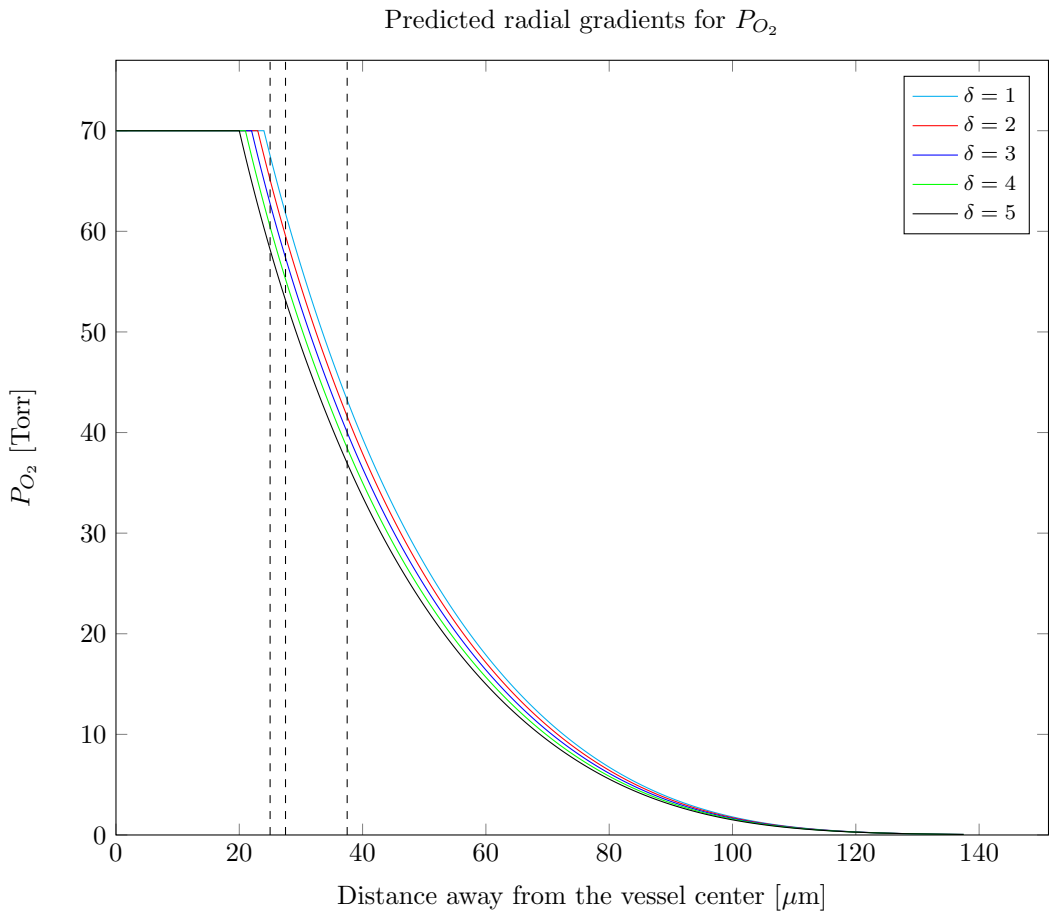
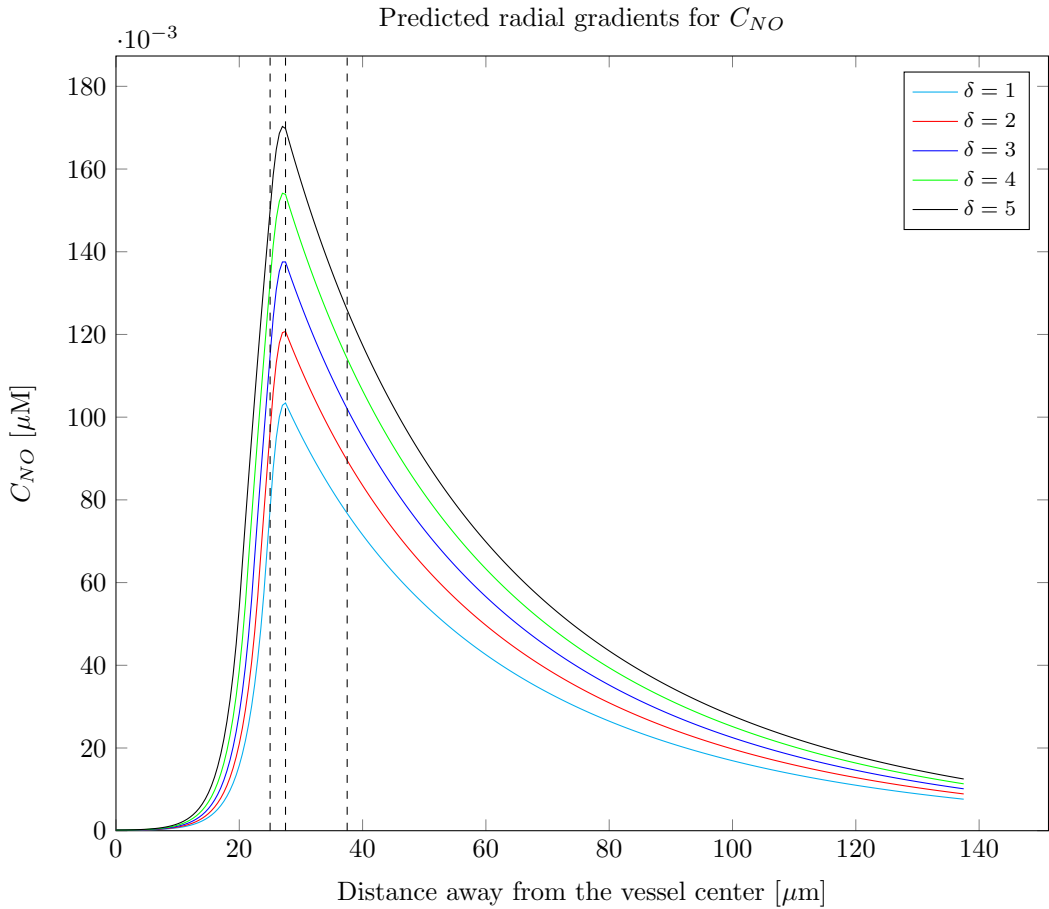
Convergence for large data



Convergence for large data with very large space step
Convergence analysis at $\delta = 5$

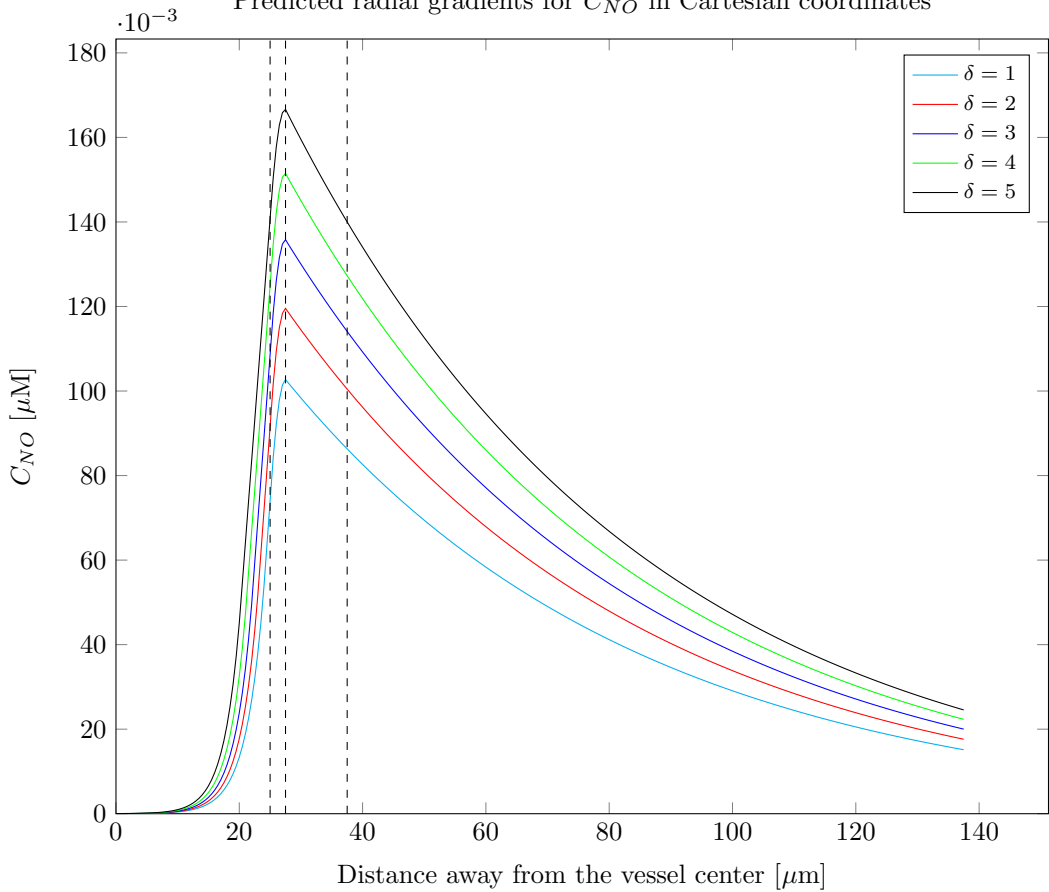


Polar $h = 0.5$

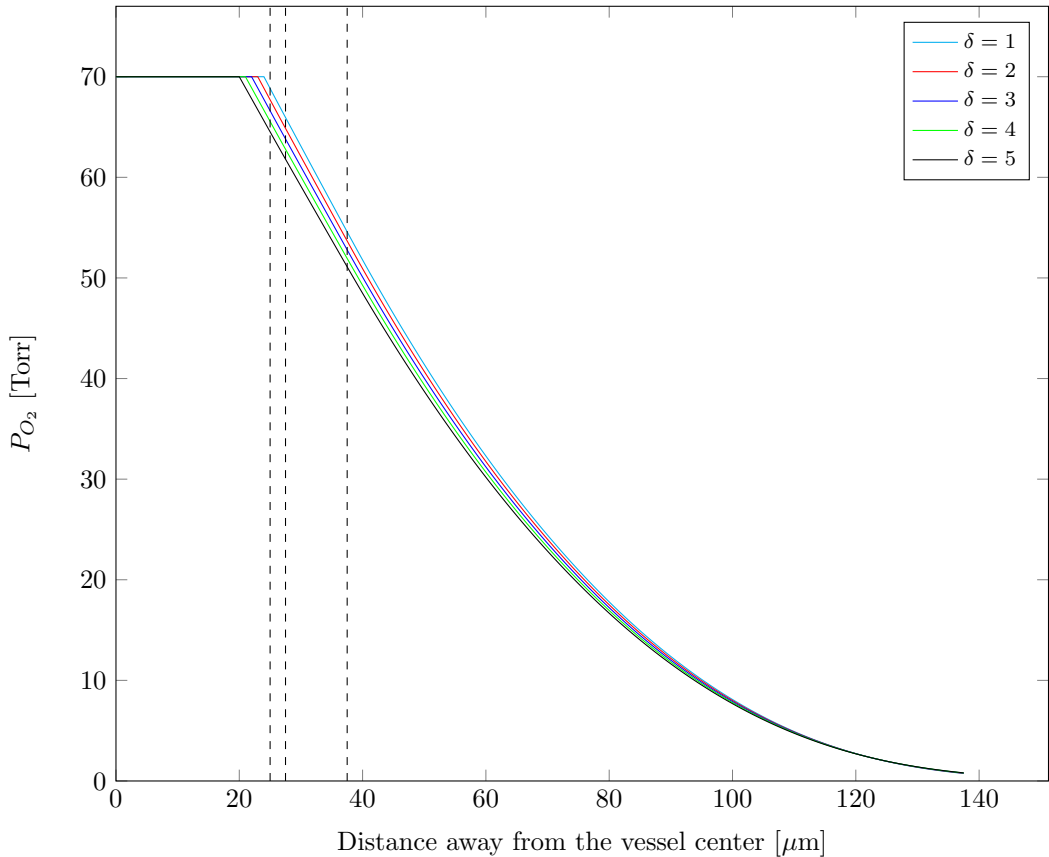


Cartesian $h = 0.5$

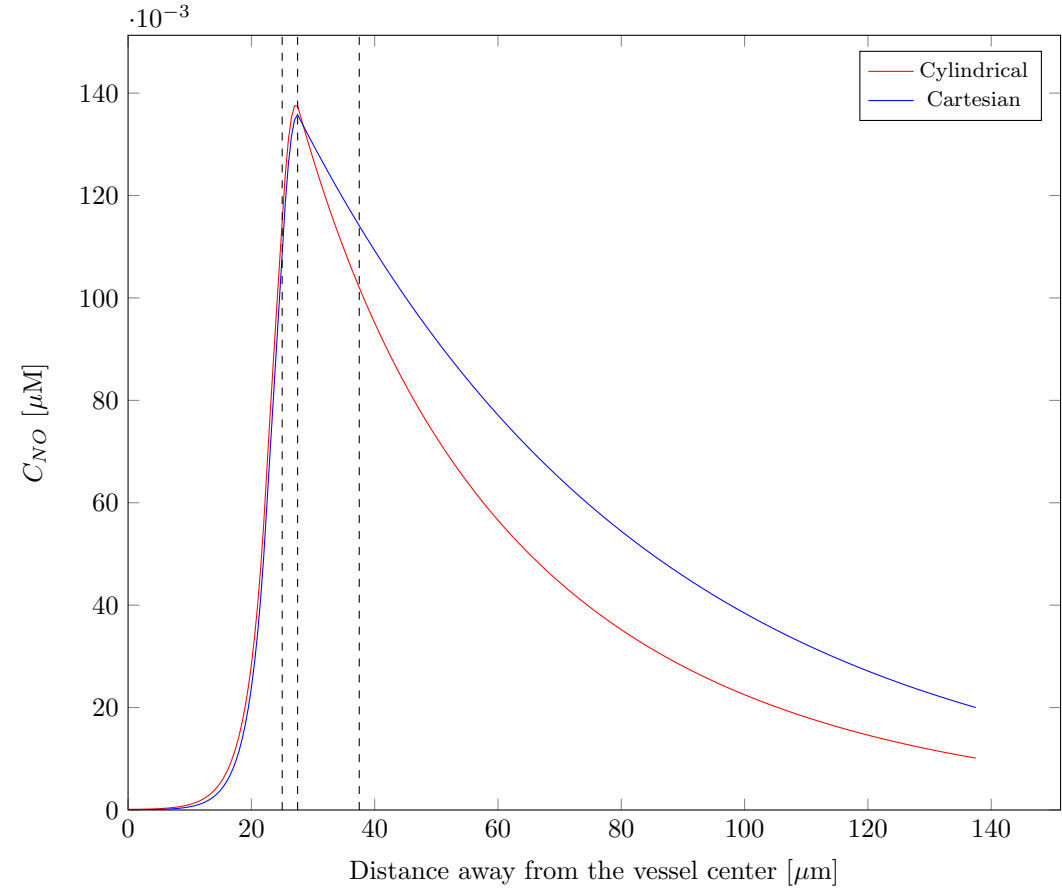
Predicted radial gradients for C_{NO} in Cartesian coordinates



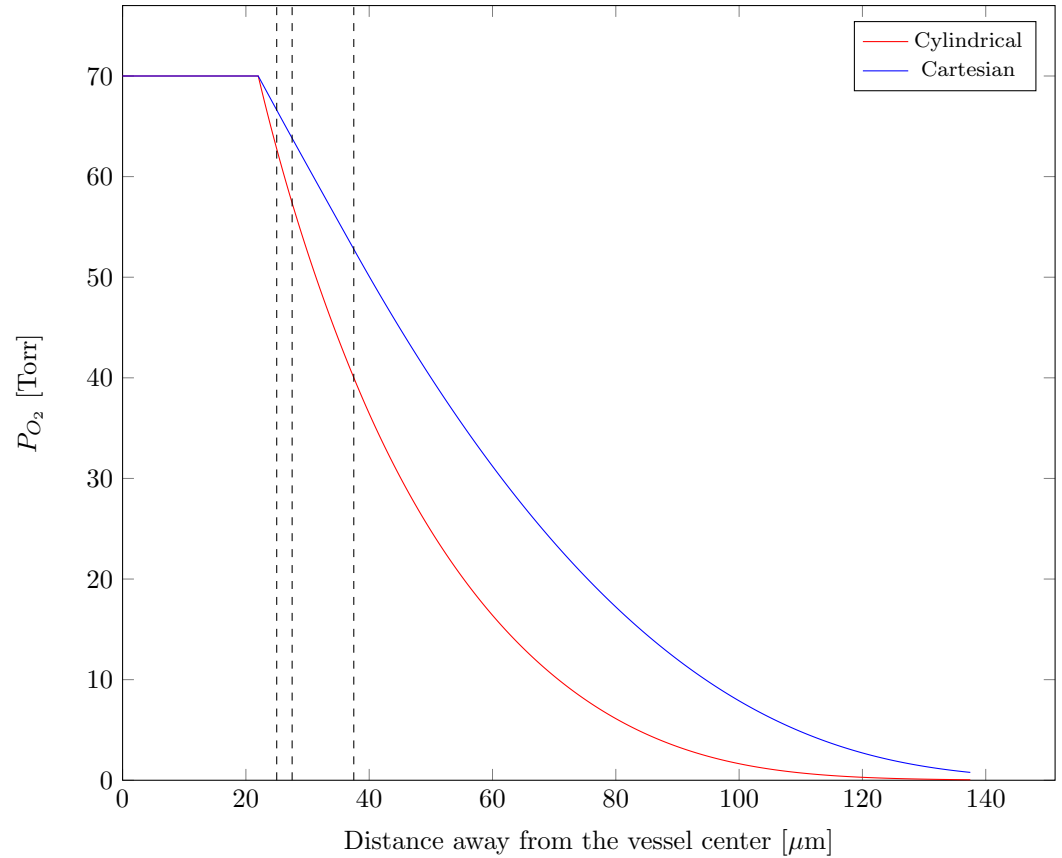
Predicted radial gradients for P_{O_2} in Cartesian coordinates



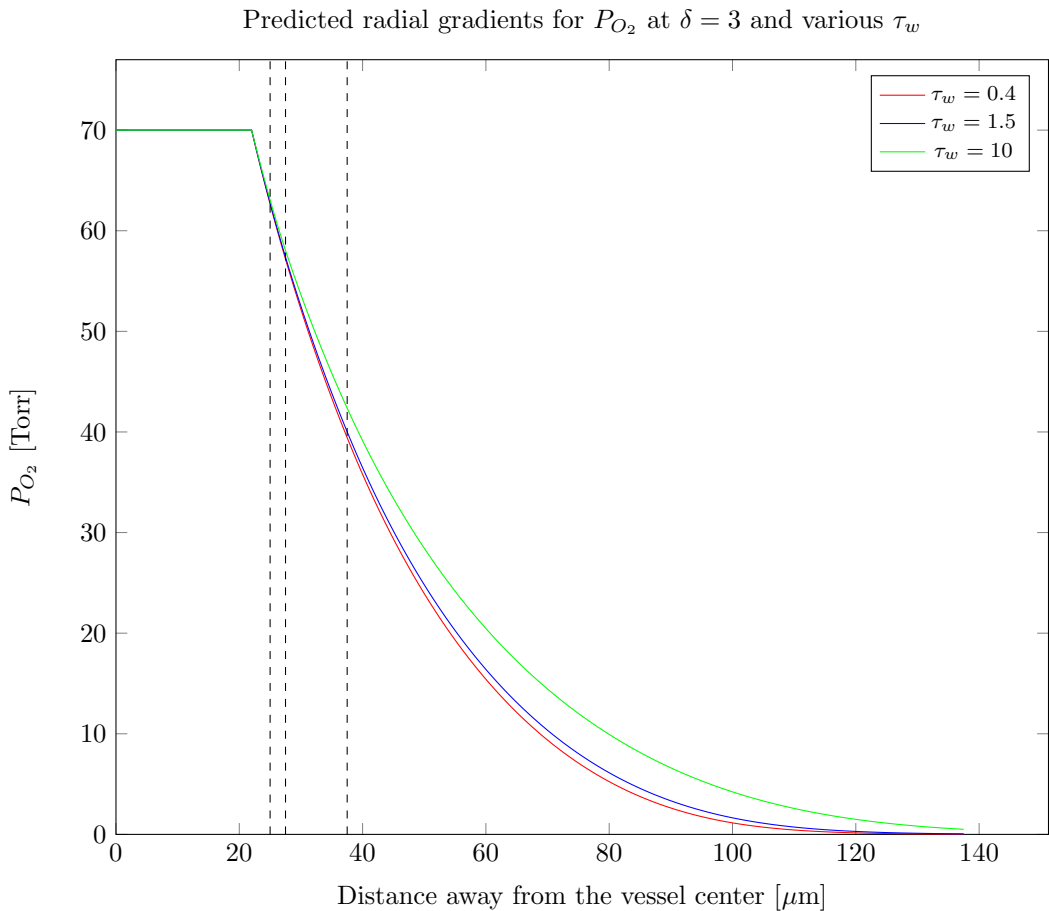
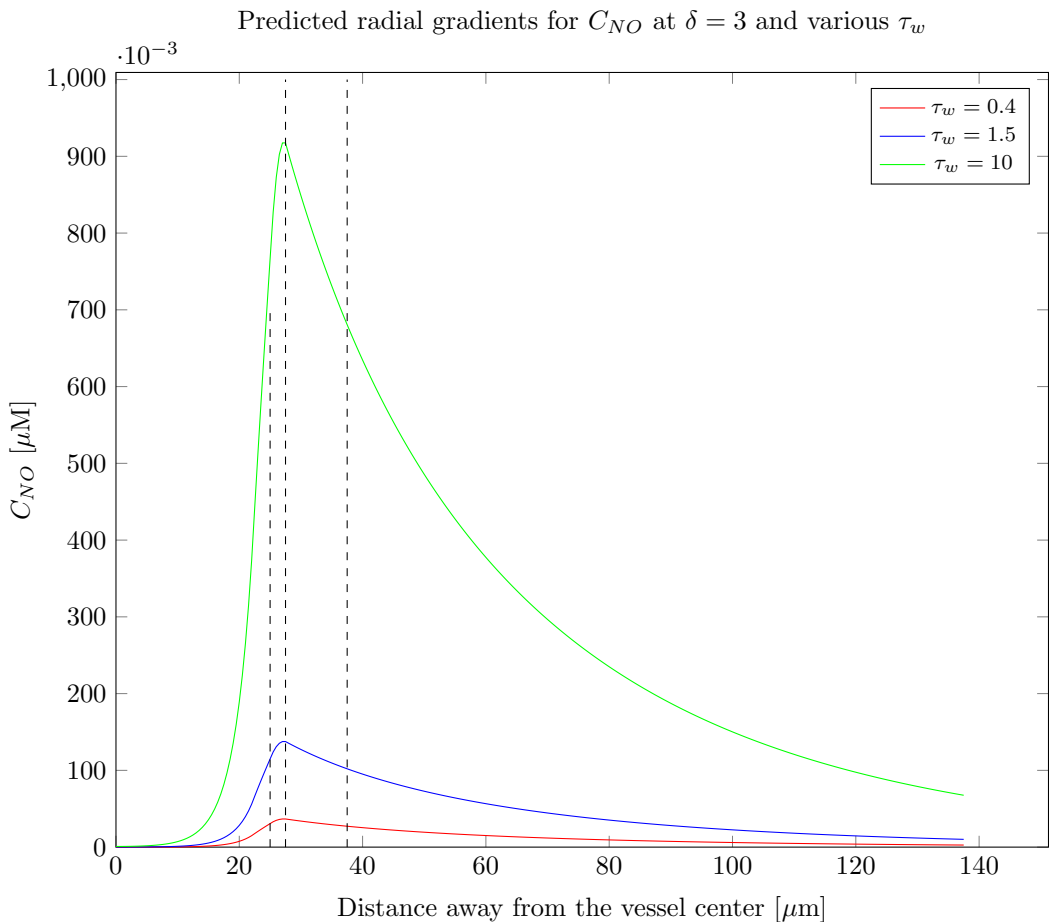
Cartesian vs Polar
Predicted radial gradients for C_{NO} using Cartesian coordinates and Cylindrical coordinates at $\delta = 3$



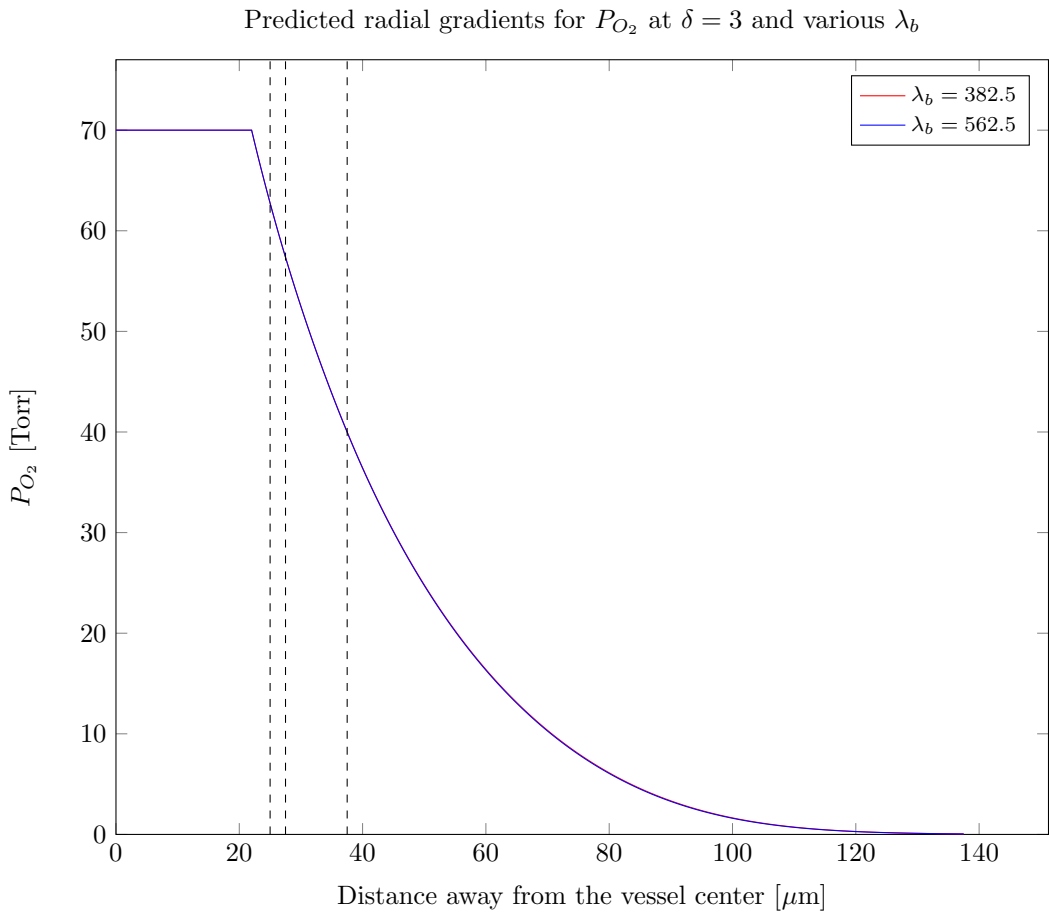
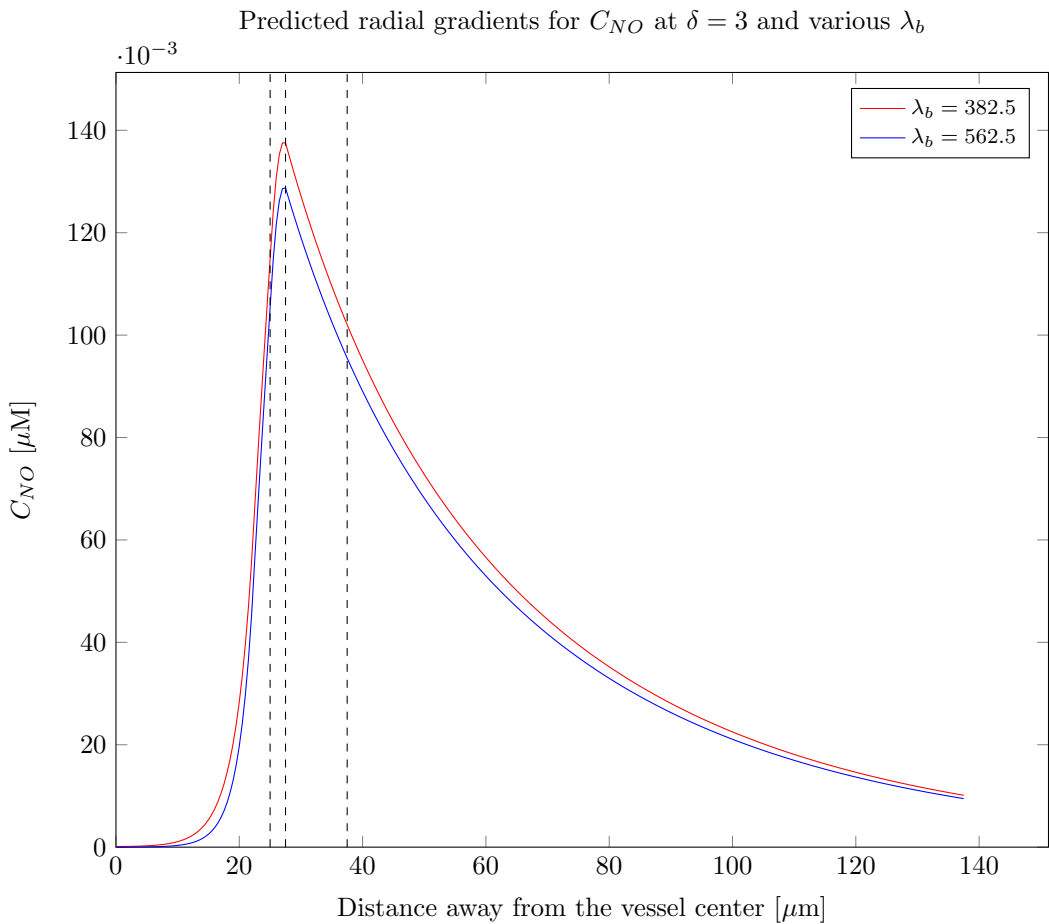
Predicted radial gradients for P_{O_2} using Cartesian coordinates and Cylindrical coordinates at $\delta = 3$



Varying τ_w



Varying λ_b



Polar $h = 0.5$

