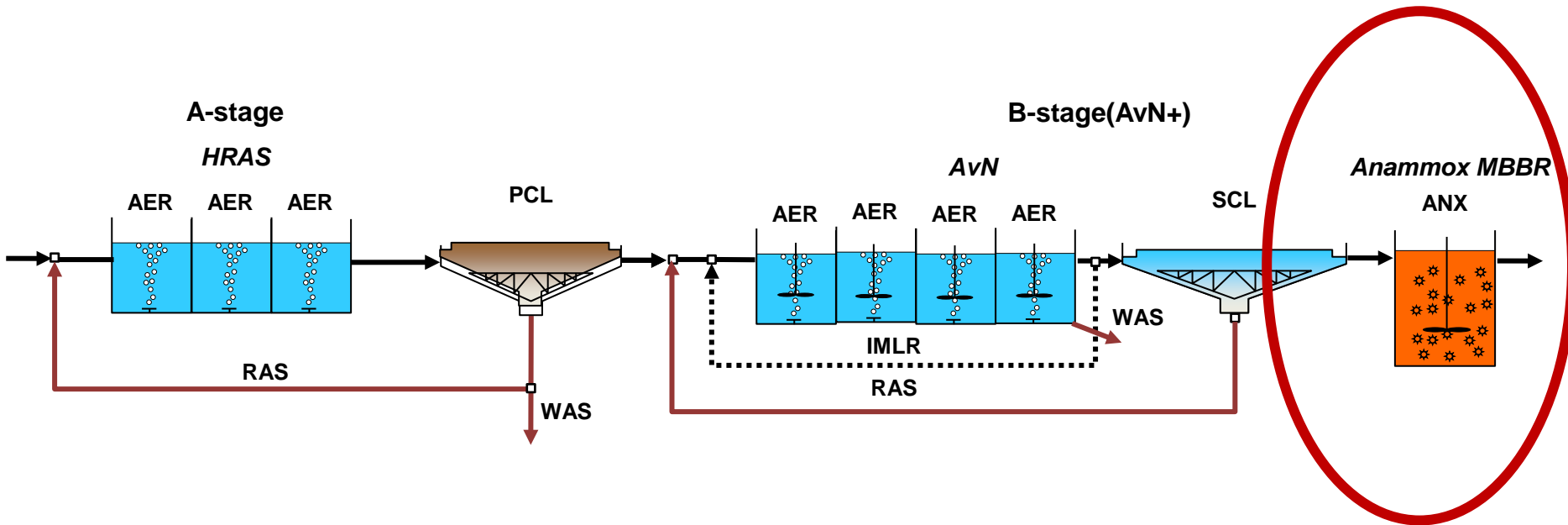
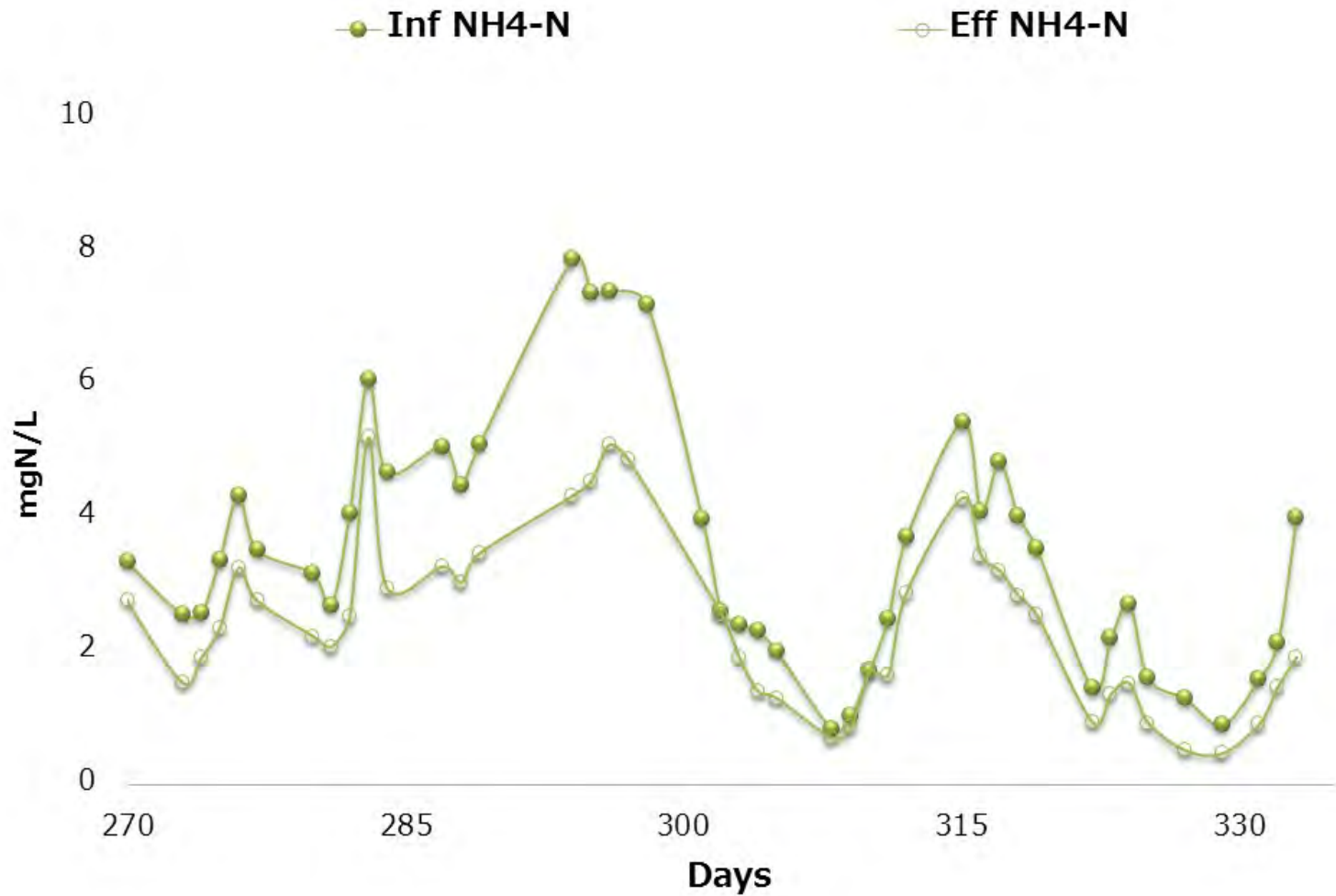


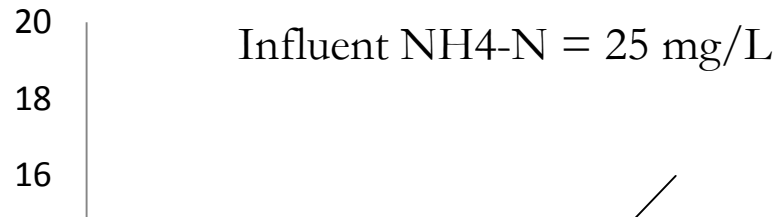
Pilot 2.0



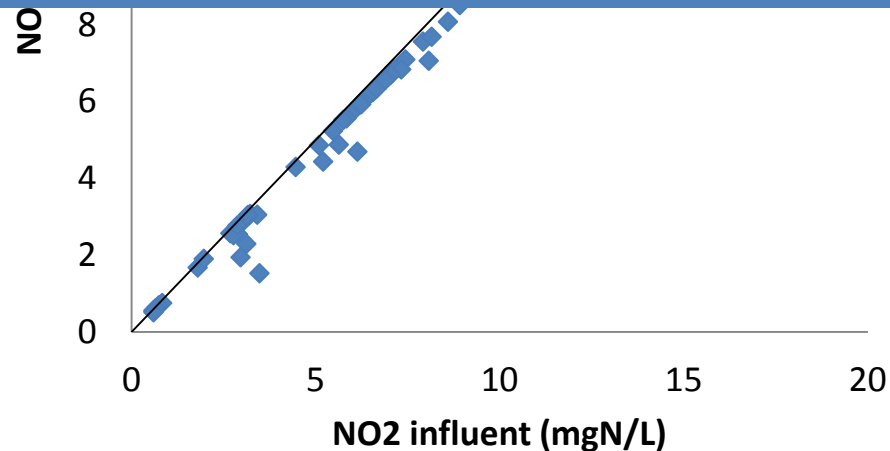
Anammox polishing



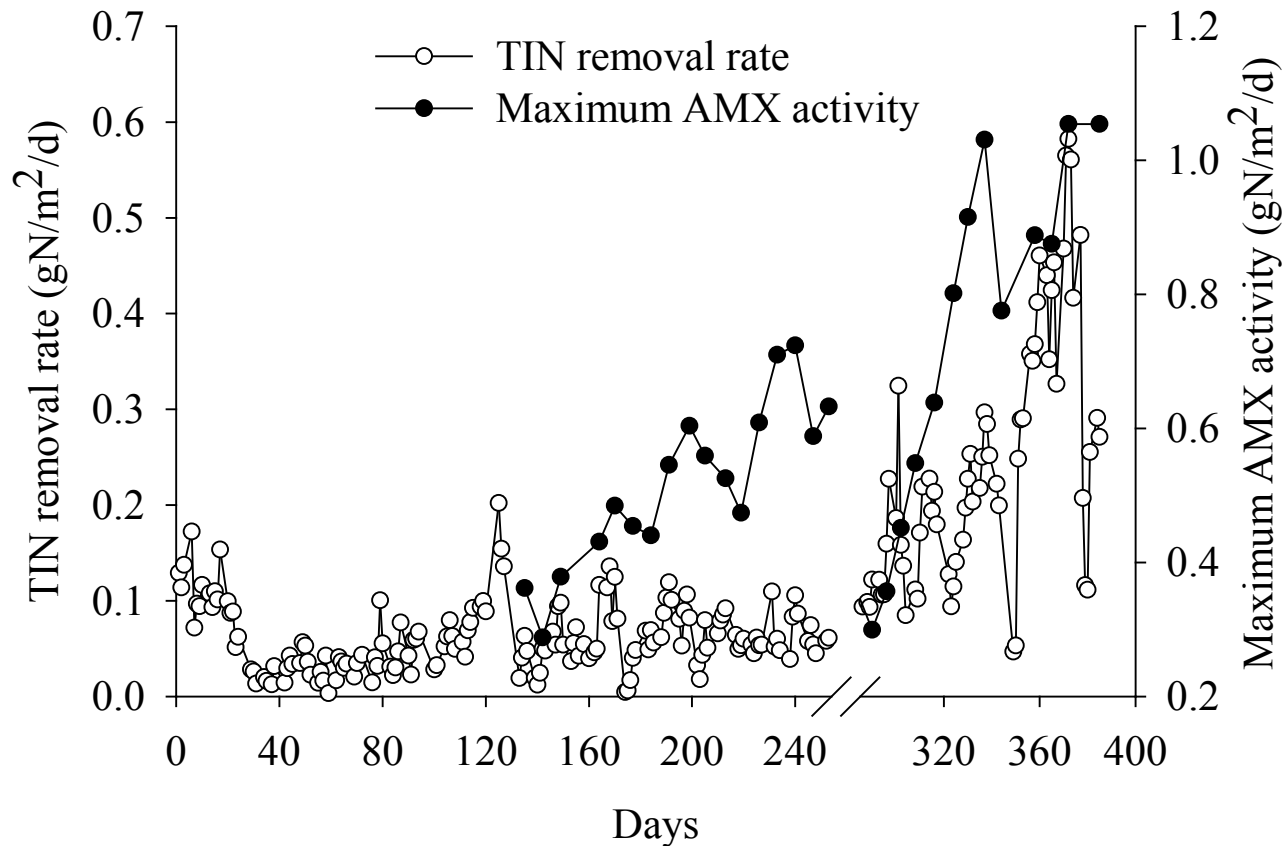
Anammox Stability



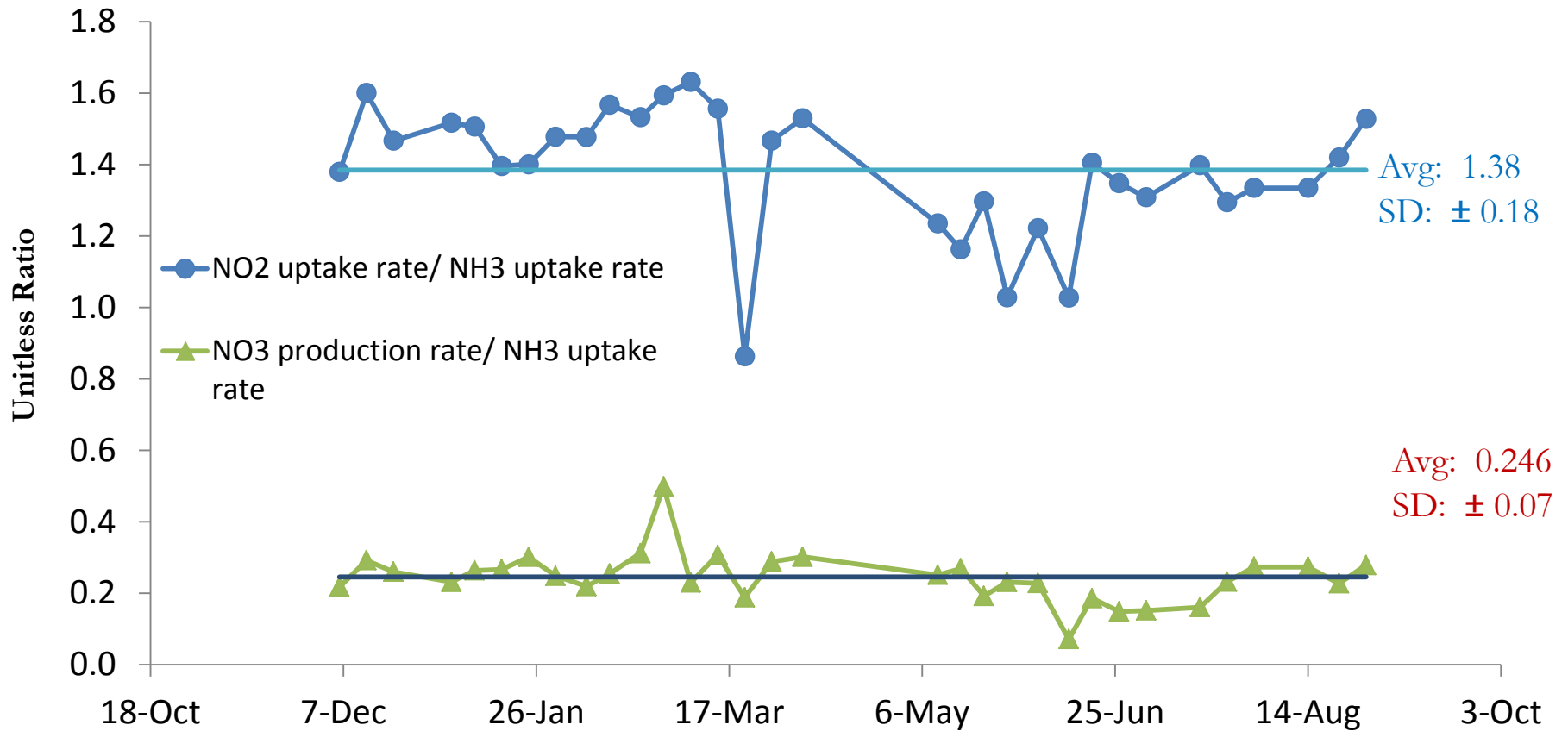
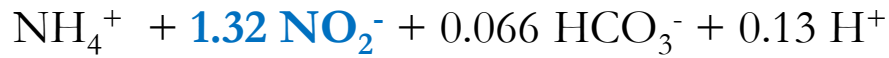
Anammox polishing is very stable in an unaerated MBBR



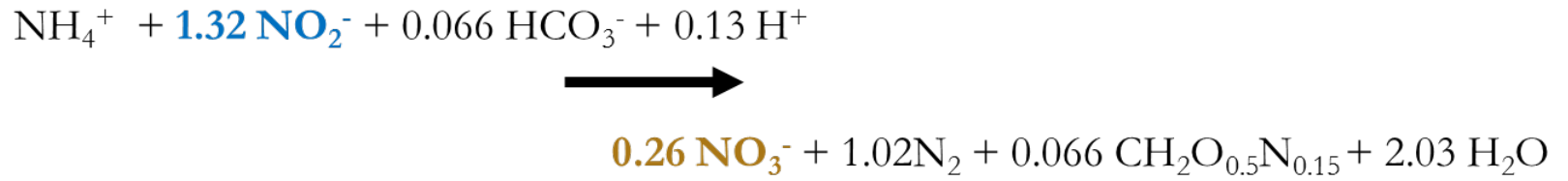
Anammox Enrichment



In-Situ Activity Testing



Limitation of anammox

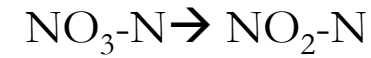
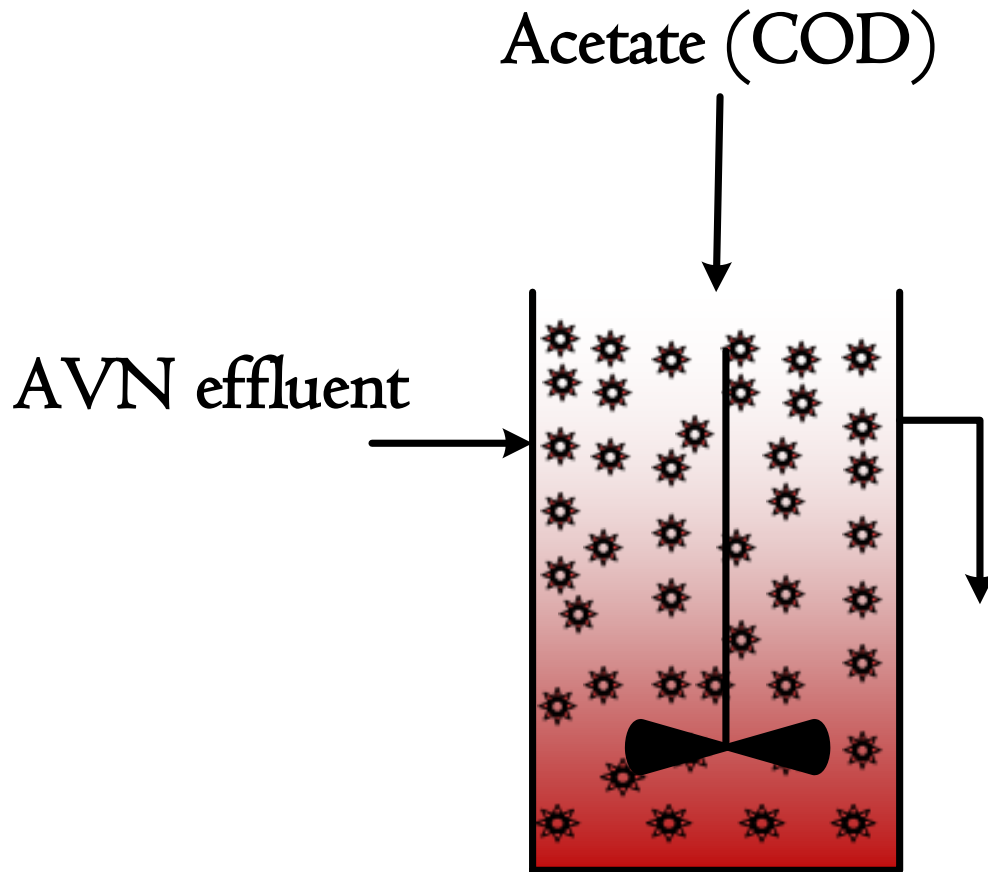


11% $\text{NO}_3\text{-N}$ production

Therefore, theoretically only 89% N removal is possible

$\text{NO}_3\text{-N}$ in the AvN effluent > 0 mg/L (100% NOB out-selection is not possible)

Nitrate removal in COD limited condition



Then,

Anammox can combine
 $\text{NH}_4\text{-N}$ and $\text{NO}_2\text{-N}$ to N_2

$$\text{COD}/\text{NO}_3\text{-N} < 1.5$$