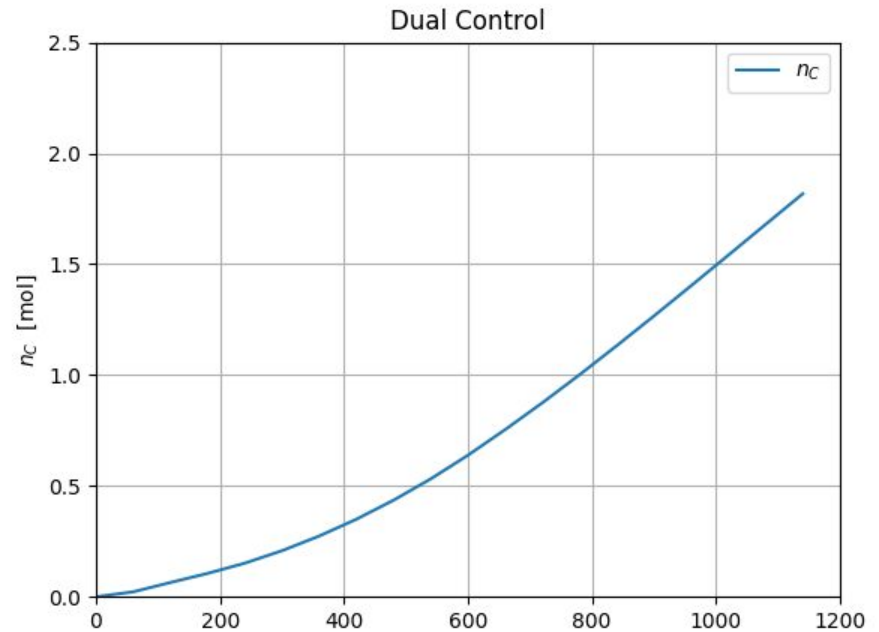
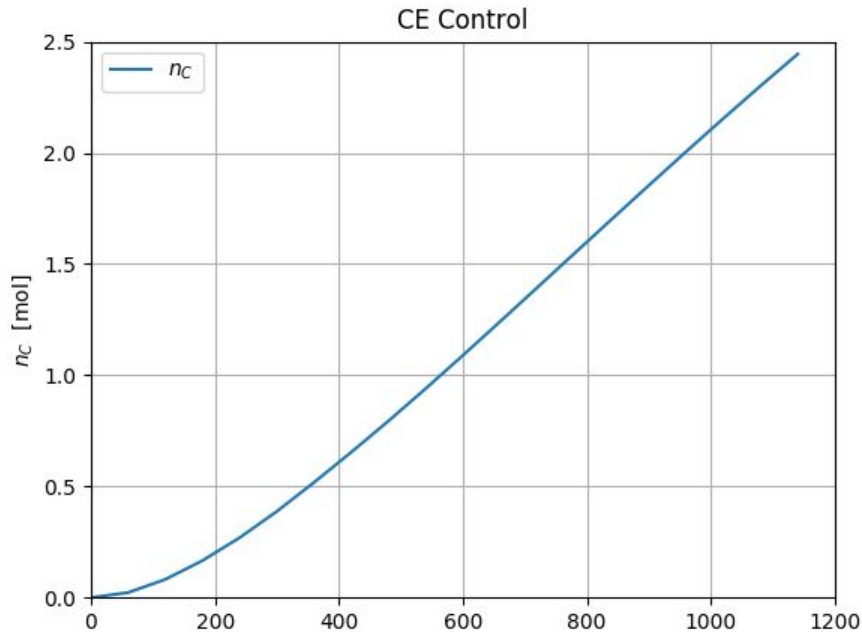


Trial 1

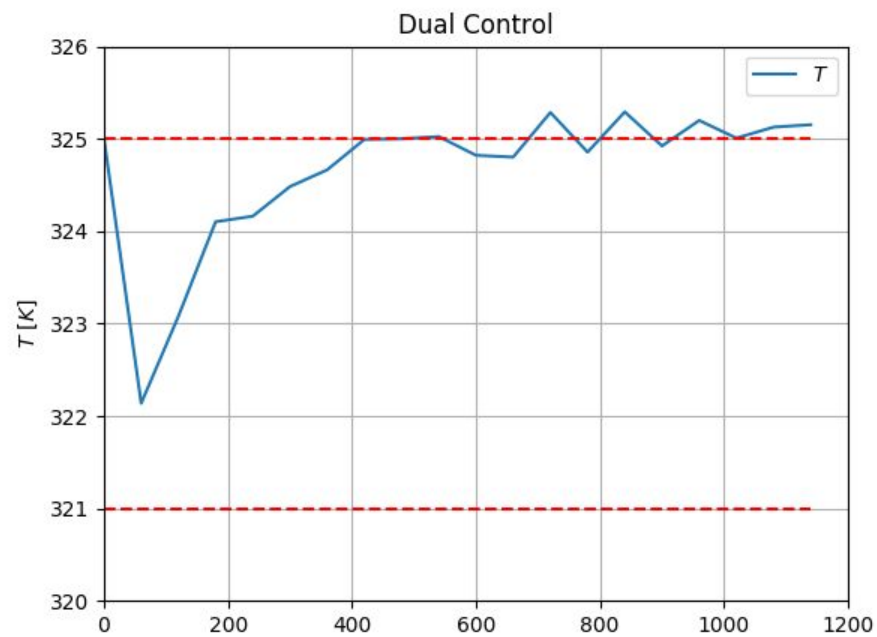
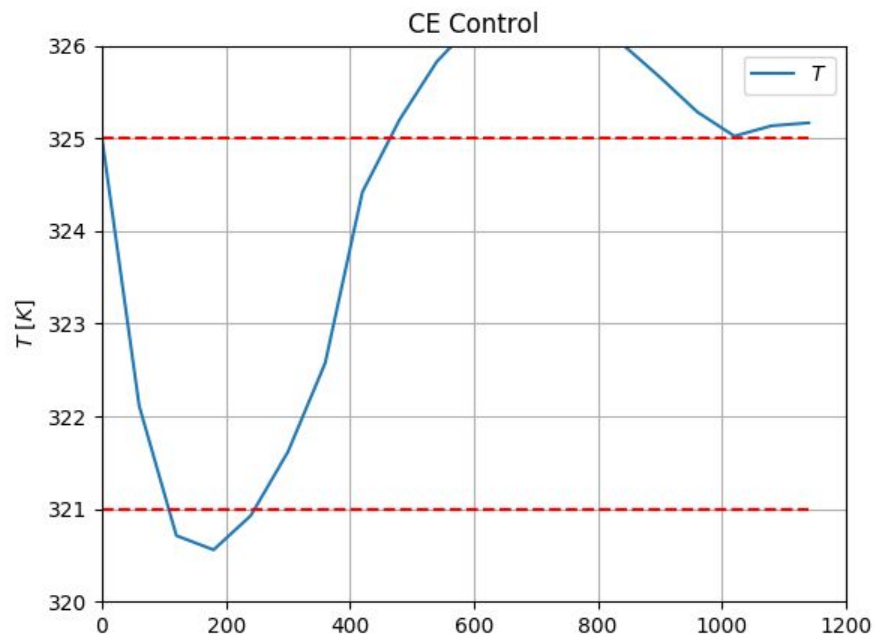
```
Qz = np.diag([10**-17, 5, 5, 5, .2, .2, .2, ((3.0457*10**(-7))*discritize*.15)**2,  
(323.05*.15)**2 ])
```

*tuning bases on squared error of parameters

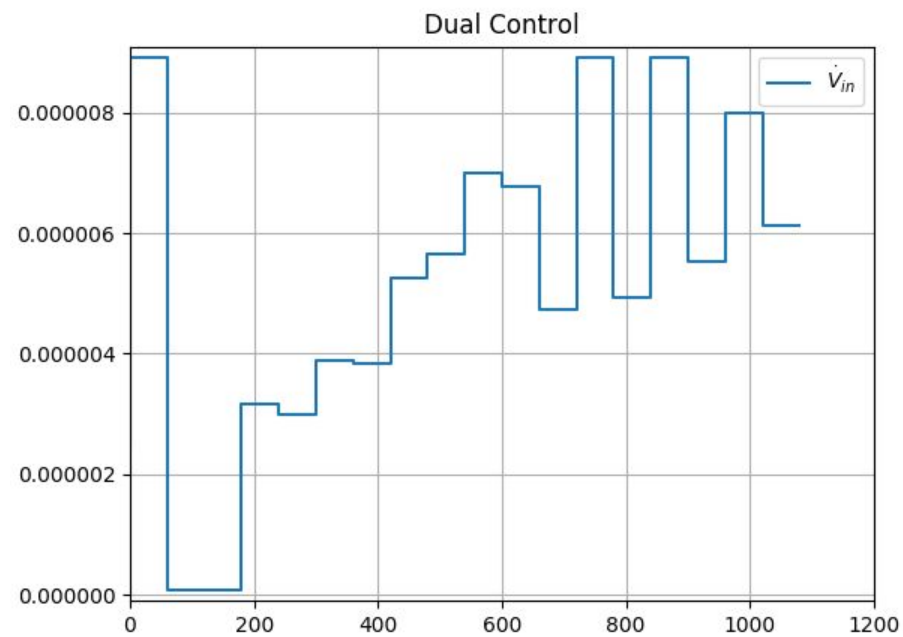
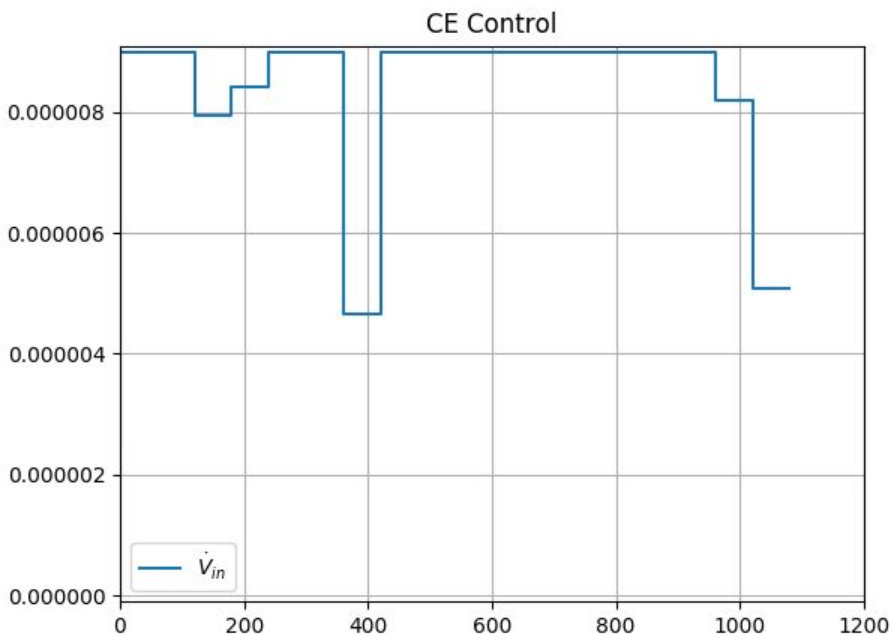
Objective function (maximize moles of C)



State 5

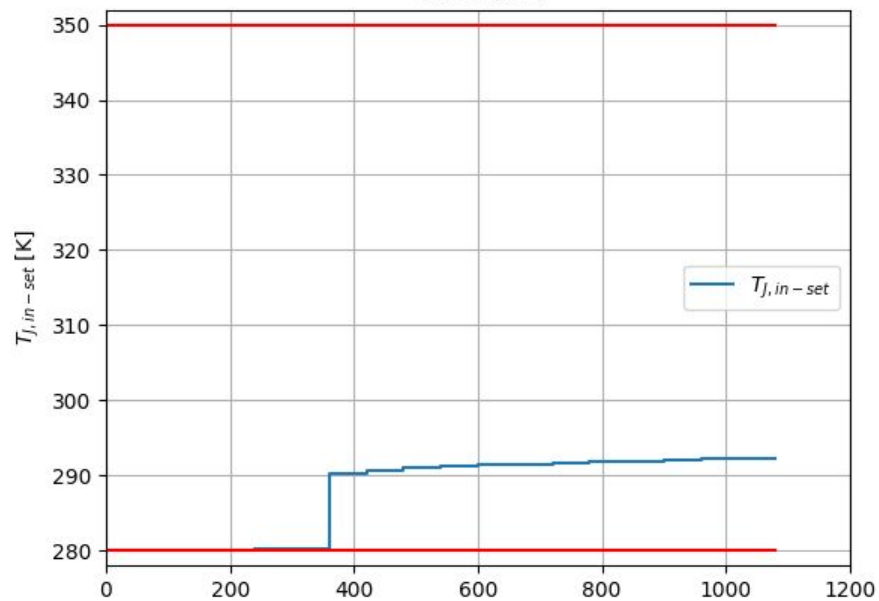


Input 1

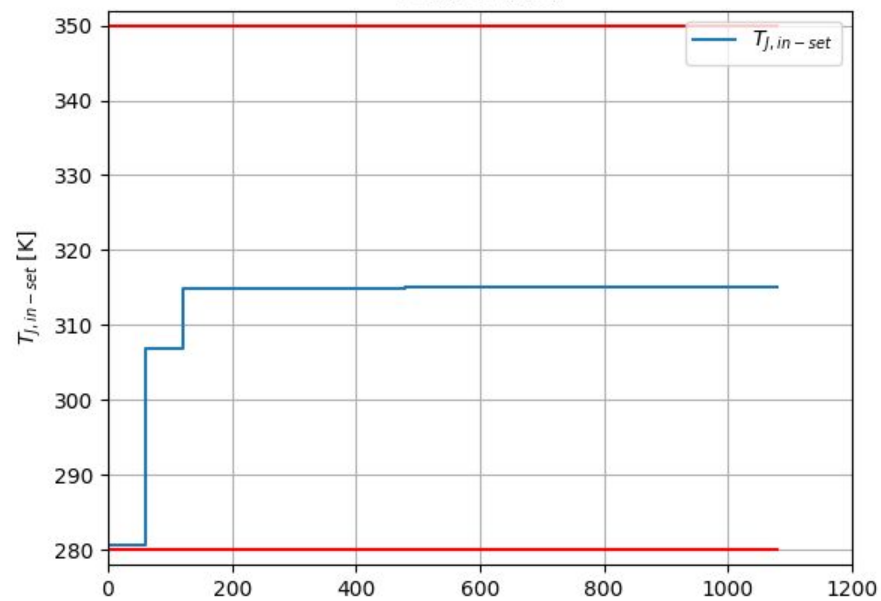


Input 2

CE Control



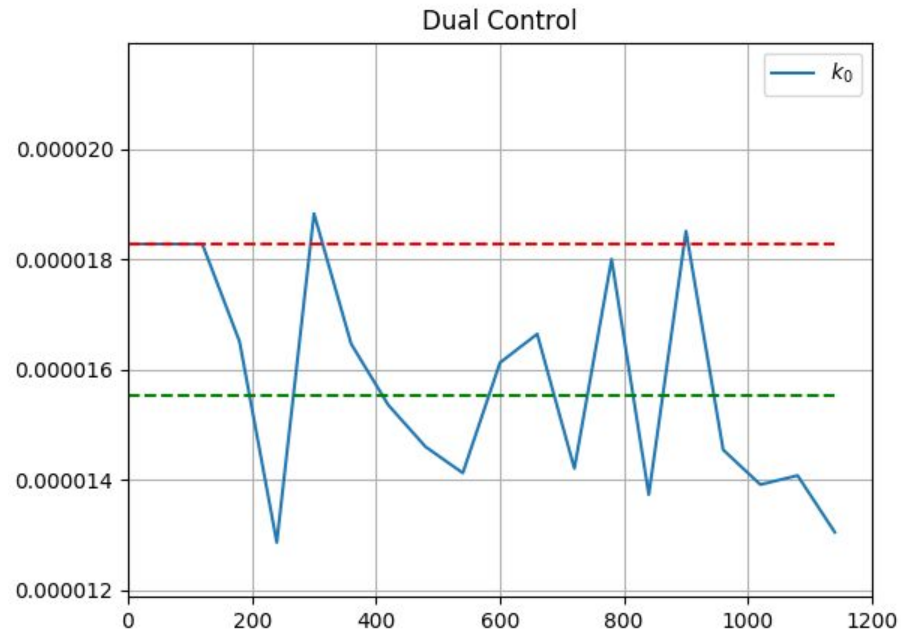
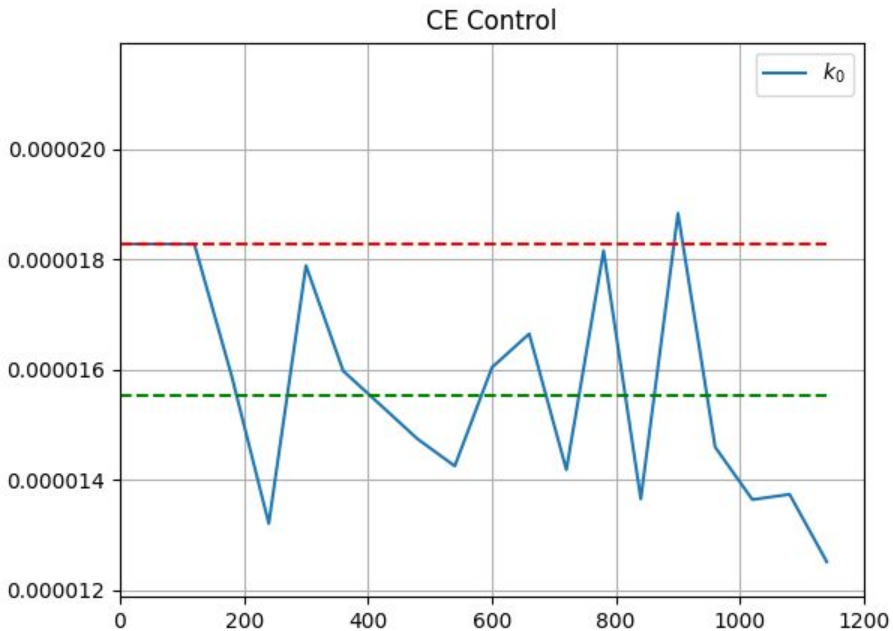
Dual Control



Parameter estimate 1

Red = theta nominal

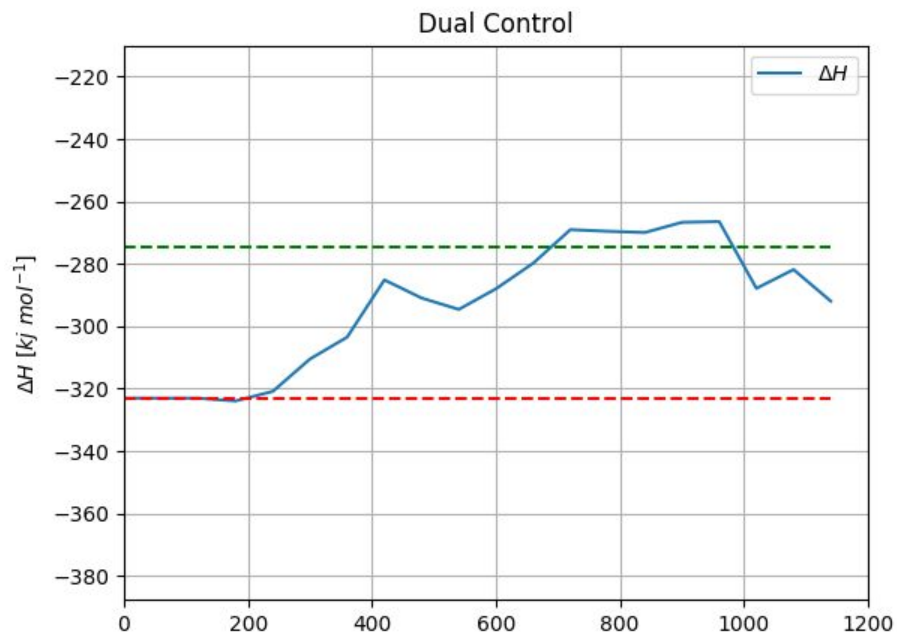
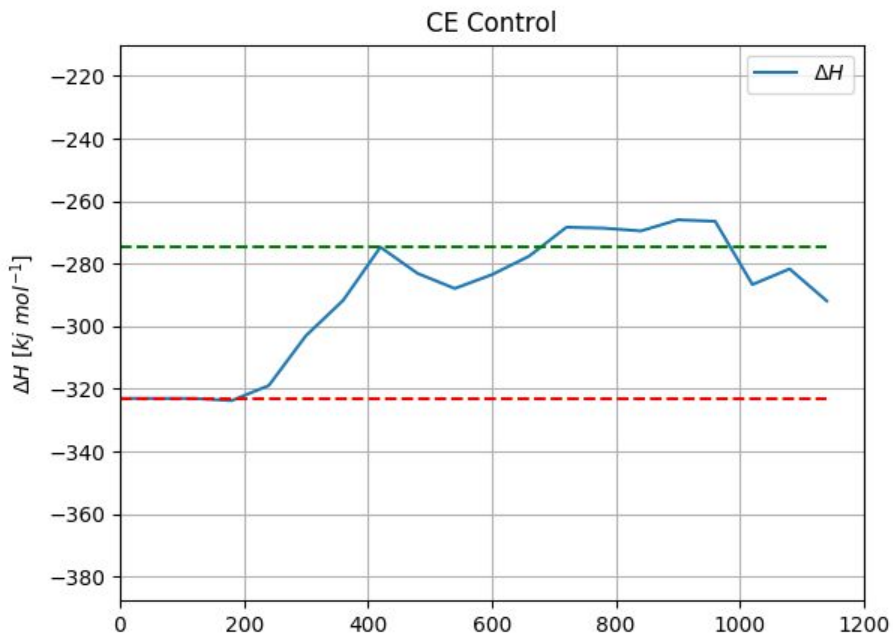
Green = theta actual



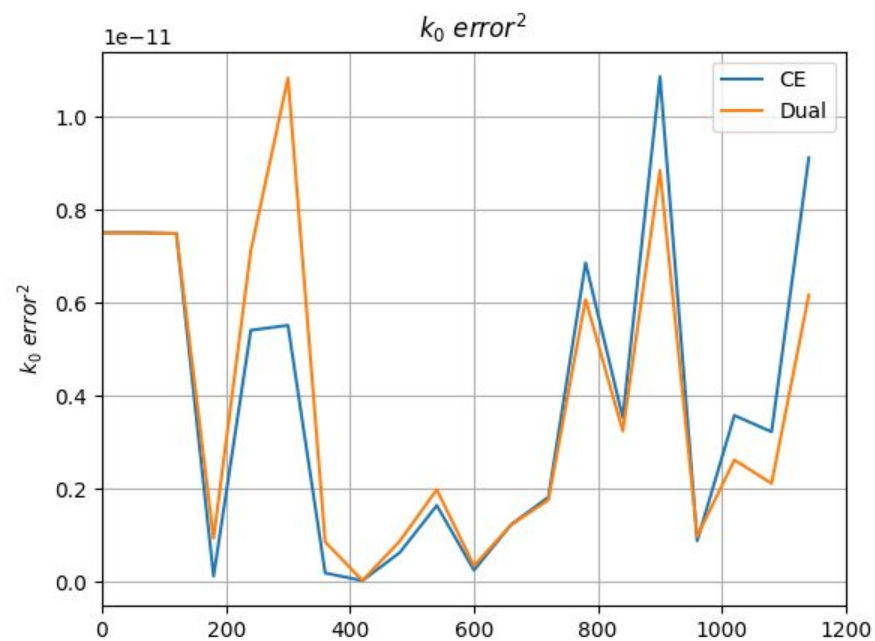
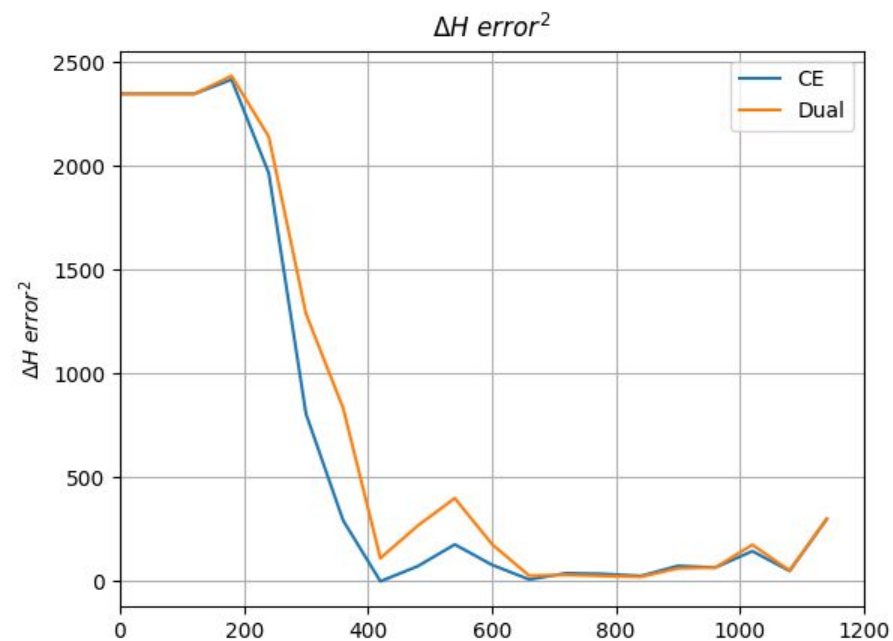
Parameter estimate 2

Red = theta nominal

Green = theta actual



Parameter estimate error

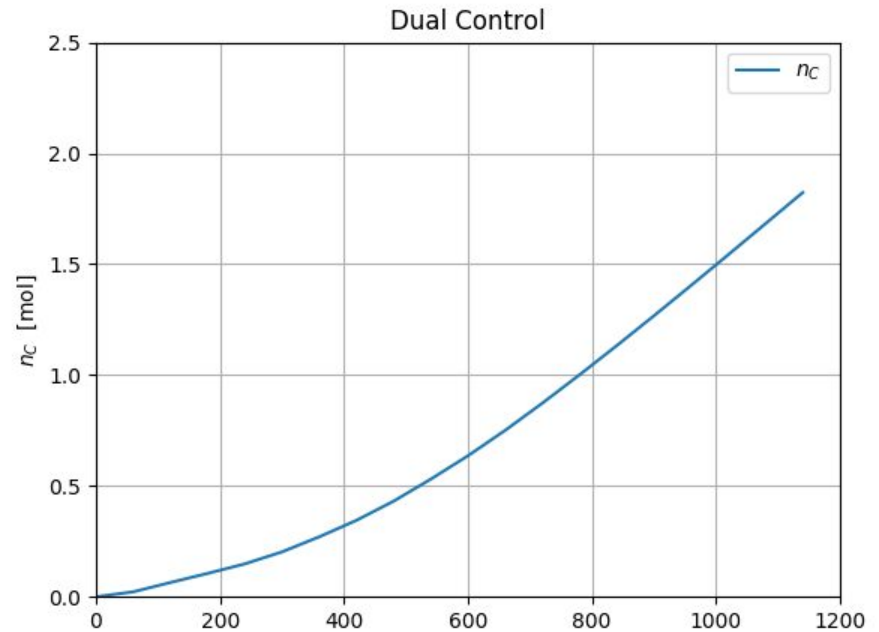
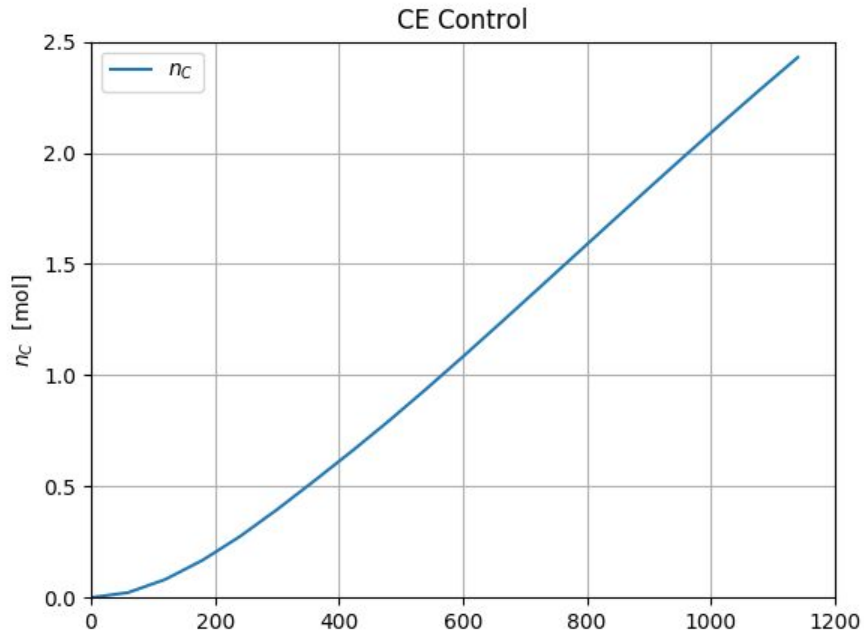


Trial 2

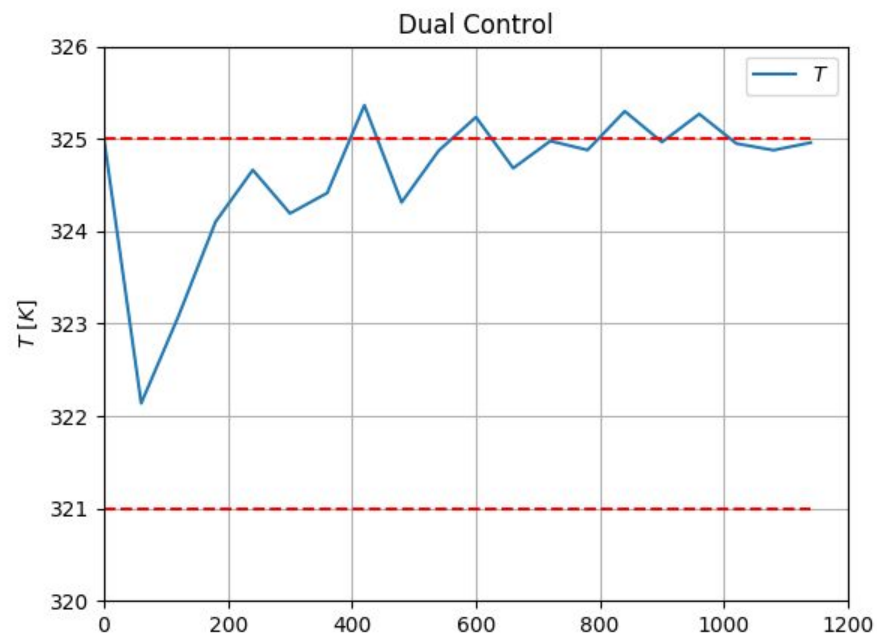
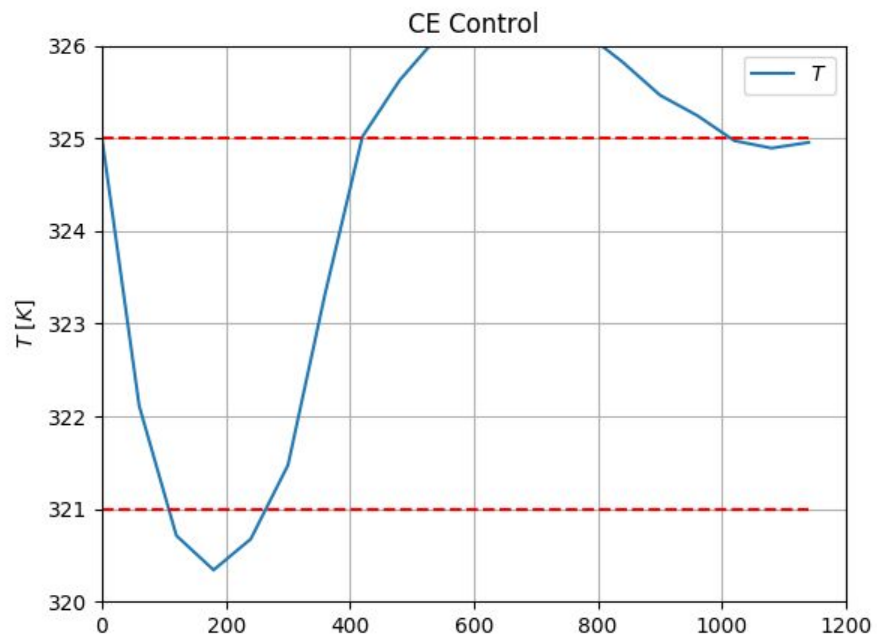
```
Qz = np.diag([10**-17, 5, 5, 5, .2, .2, .2, ((3.0457*10**(-7))*discritize*.15)**2,  
(323.05*.15)**2 ])
```

*tuning bases on squared error of parameters

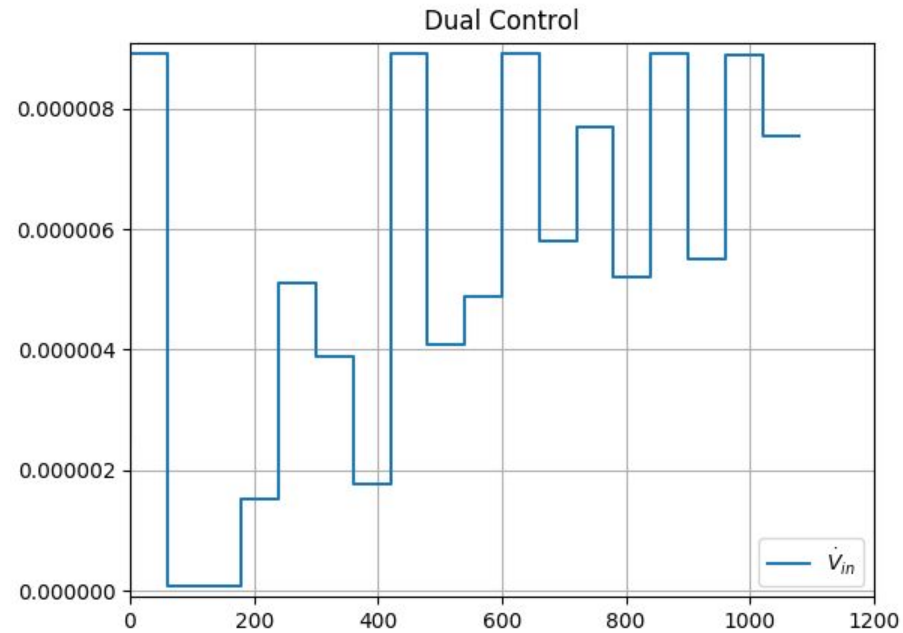
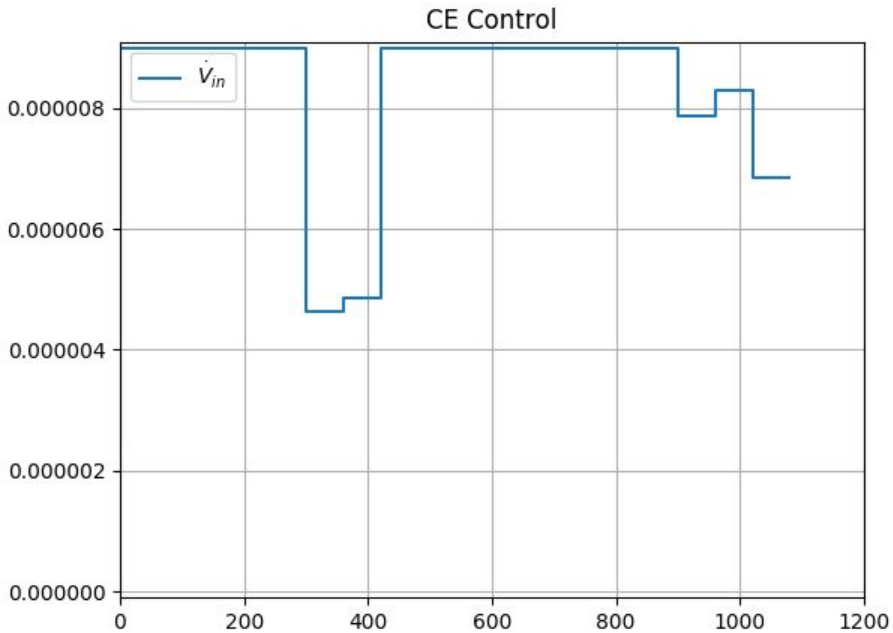
Objective function (maximize moles of C)



State 5

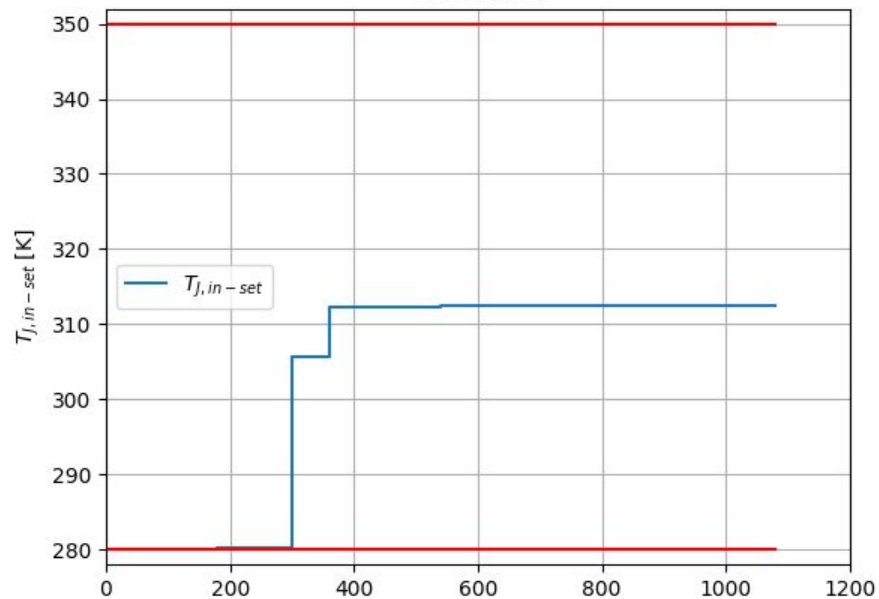


Input 1

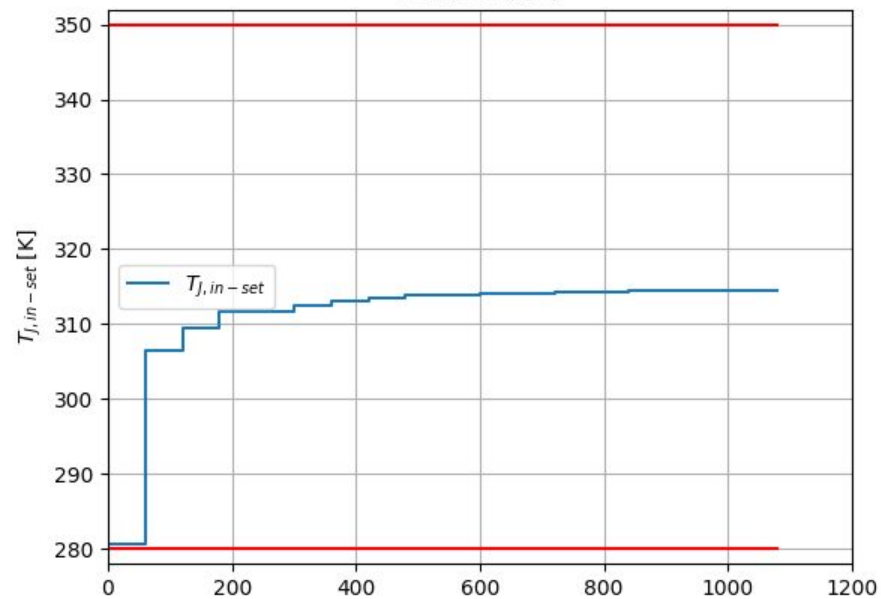


Input 2

CE Control



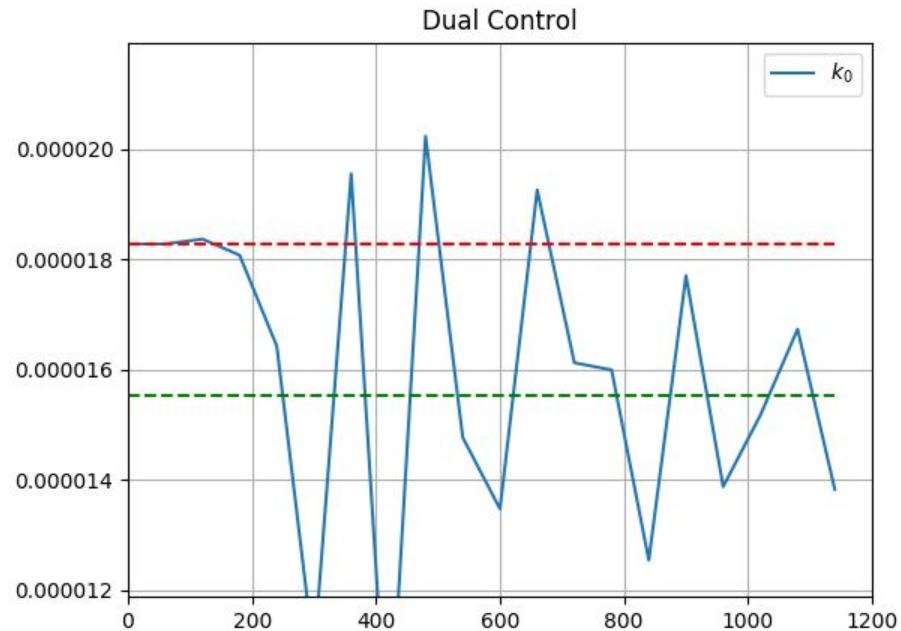
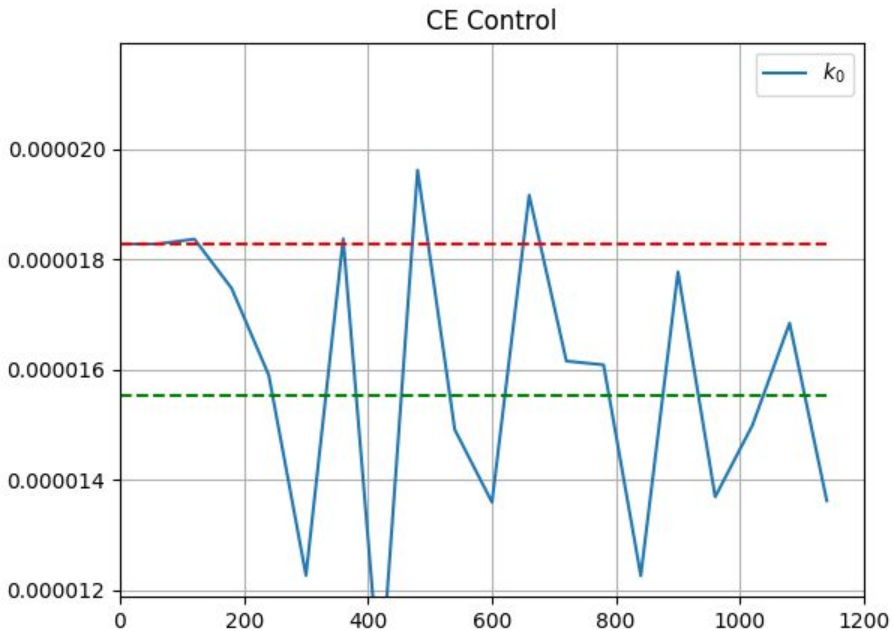
Dual Control



Parameter estimate 1

Red = theta nominal

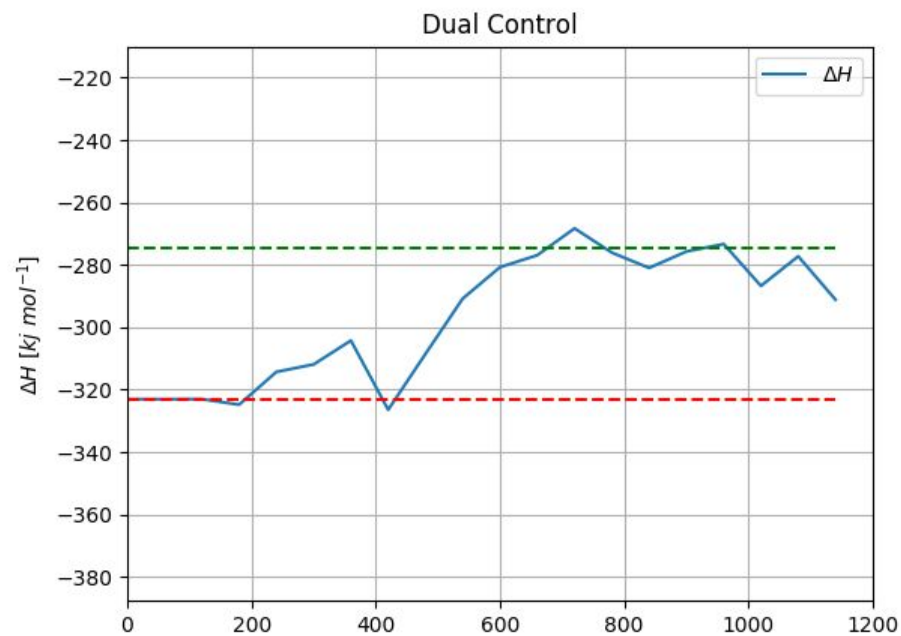
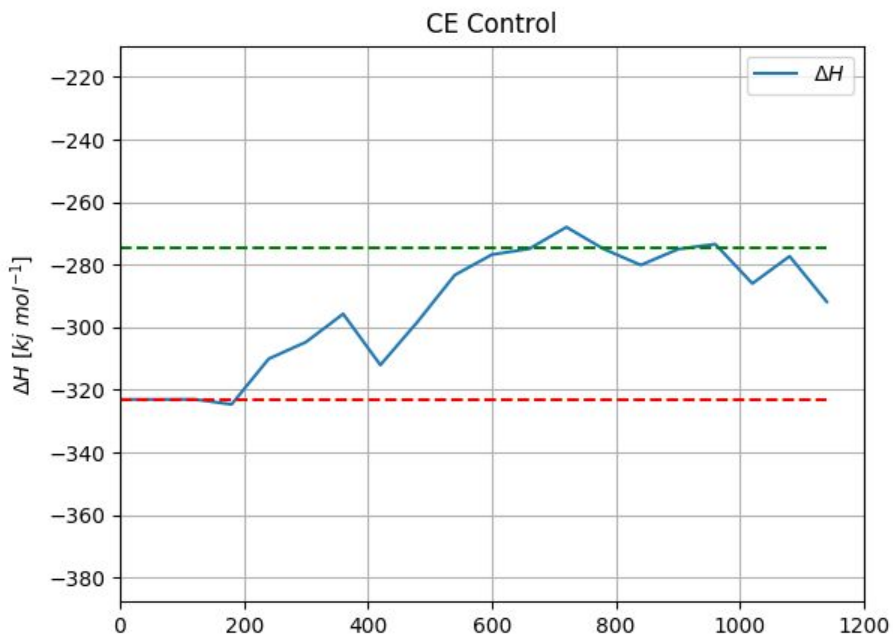
Green = theta actual



Parameter estimate 2

Red = theta nominal

Green = theta actual



Parameter estimate error

