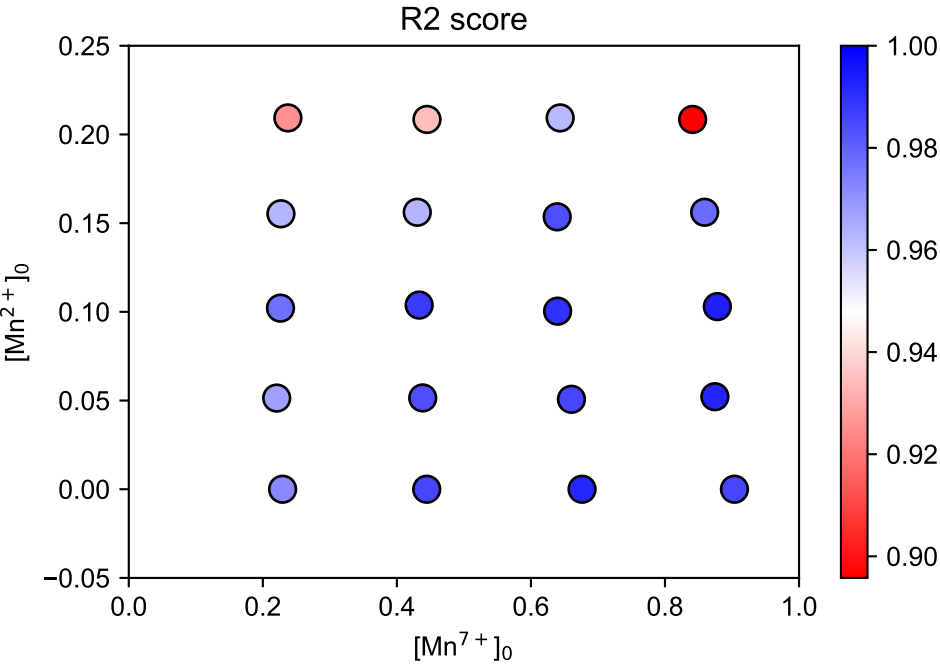


path: result/sparse_02_split
filename: 0022

chem formula:
['Mn+7', 'Mn+3', 'Mn+2', 'C2O4-2',
'CO2', 'Mn+6', 'Mn+4', 'C2O4-1']

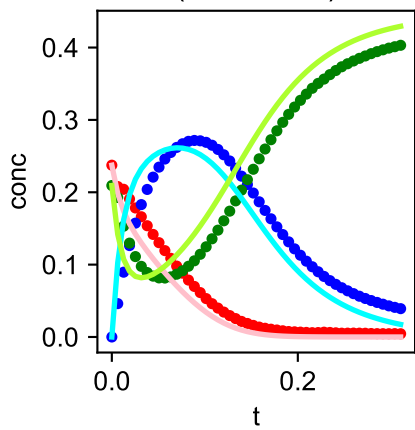
k_max = 1.00e+04
k_cut = 1.00e-02
lam = 1.64e-02
num_eq = 6
loss = 2.15e-01

MRSE train = 1.59e-02
MESE test = 3.77e-02

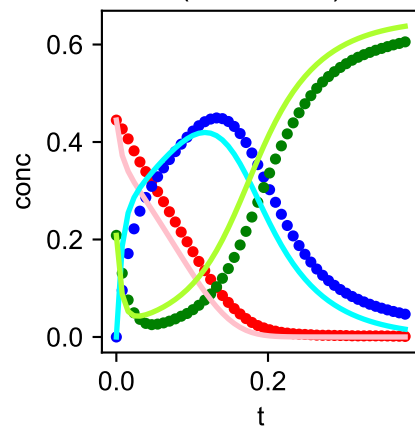


| | | | |
|------|---------------|------------------|-------------|
| (1) | Mn+7 + Mn+2 | -> Mn+3 + Mn+6 | k = 156.86 |
| (2) | Mn+7 + C204-2 | -> Mn+6 + C204-1 | k = 1.34 |
| (3) | Mn+3 + C204-2 | -> Mn+2 + C204-1 | k = 15.21 |
| (4) | Mn+2 + Mn+4 | -> 2 Mn+3 | k = 9999.97 |
| (5) | C204-2 + Mn+4 | -> Mn+3 + C204-1 | k = 1.40 |
| (6) | C204-2 + Mn+6 | -> 2 CO2 + Mn+4 | k = 9301.84 |

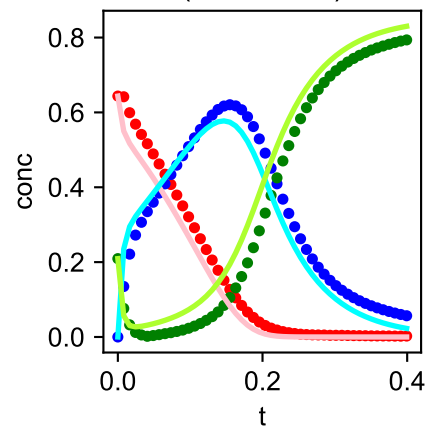
(0.24, 0.21)



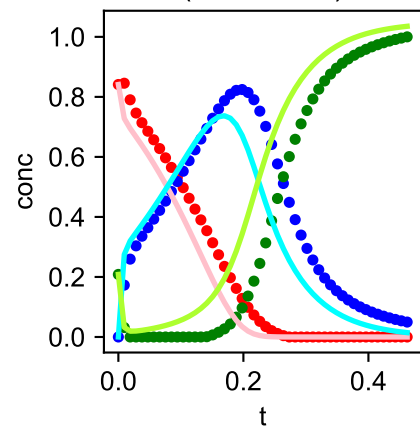
(0.44, 0.21)



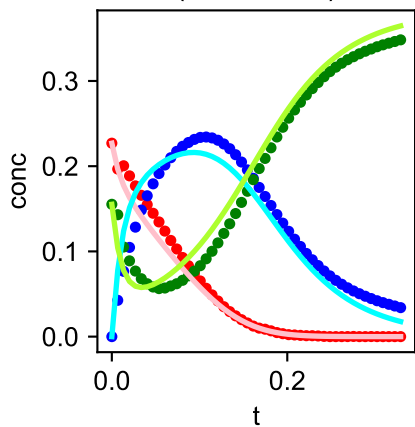
(0.64, 0.21)



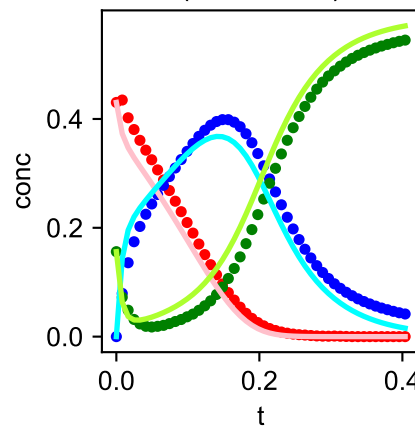
(0.84, 0.21)



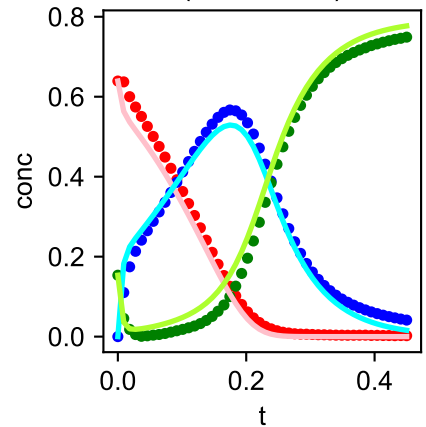
(0.23, 0.16)



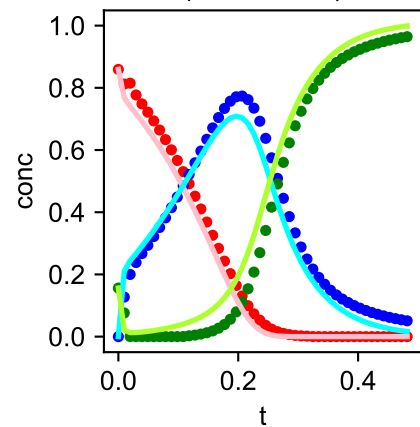
(0.43, 0.16)



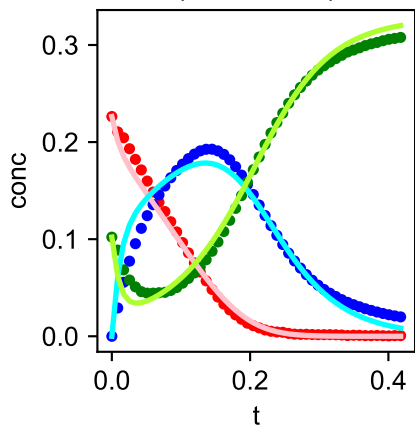
(0.64, 0.15)



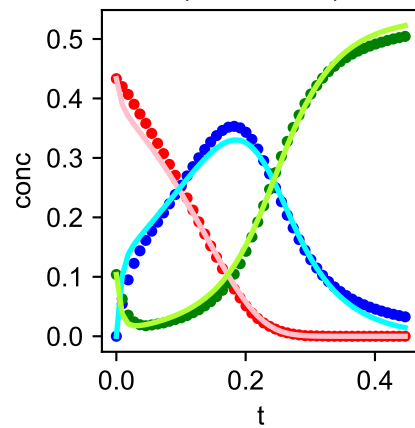
(0.86, 0.16)



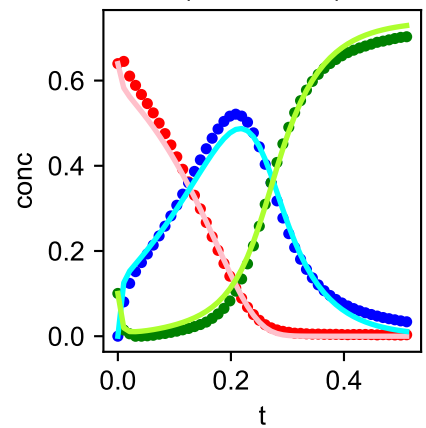
(0.23, 0.10)



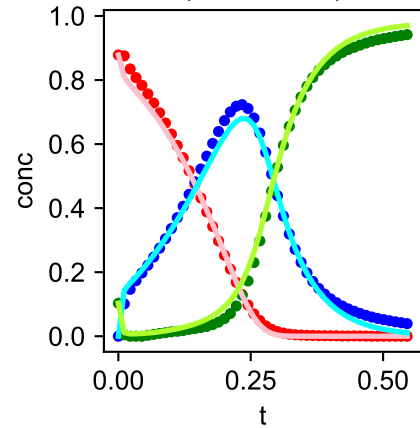
(0.43, 0.10)



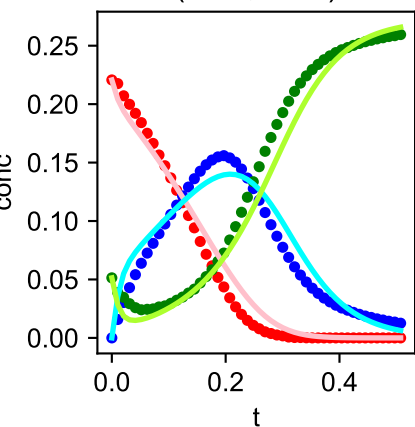
(0.64, 0.10)



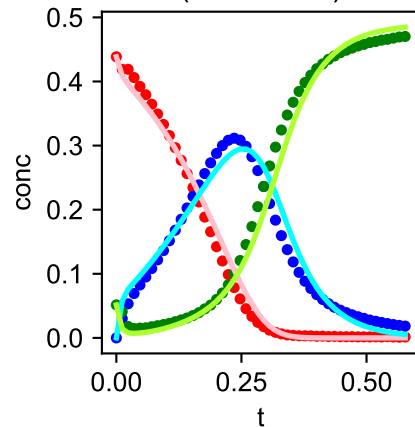
(0.88, 0.10)



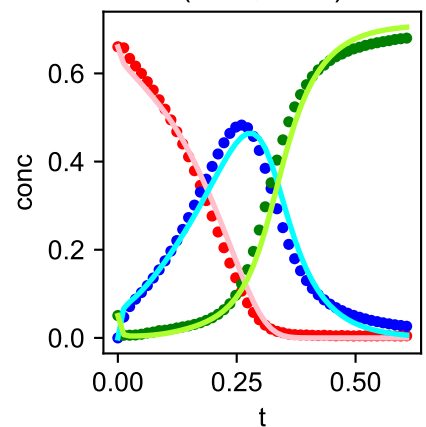
(0.22, 0.05)



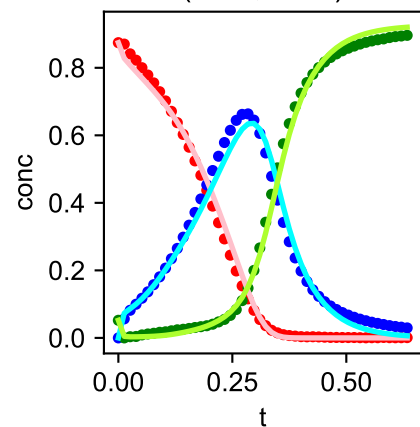
(0.44, 0.05)



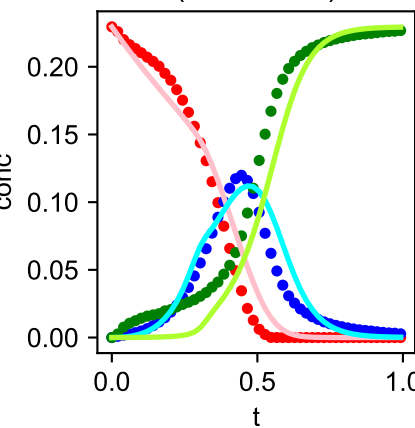
(0.66, 0.05)



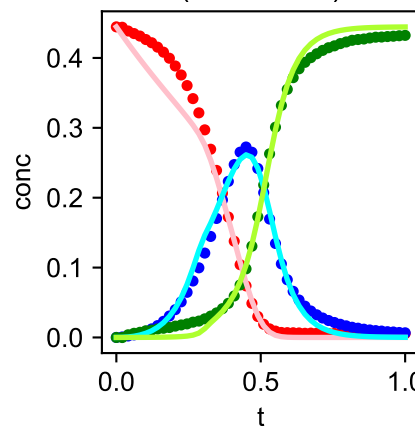
(0.87, 0.05)



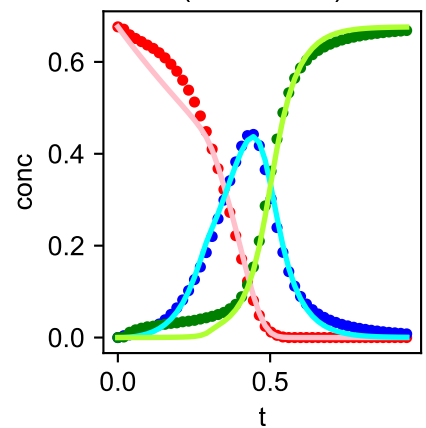
(0.23, 0.00)



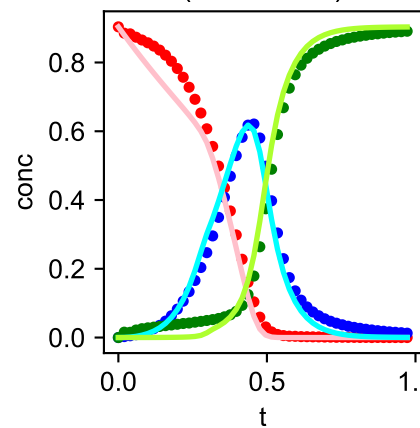
(0.44, 0.00)



(0.68, 0.00)



(0.90, 0.00)


 $([\text{Mn}^{7+}]_0, [\text{Mn}^{2+}]_0)$
— sim(Mn^{7+})— sim(Mn^{3+})— sim(Mn^{2+})• exp(Mn^{7+})• exp(Mn^{3+})• exp(Mn^{2+})