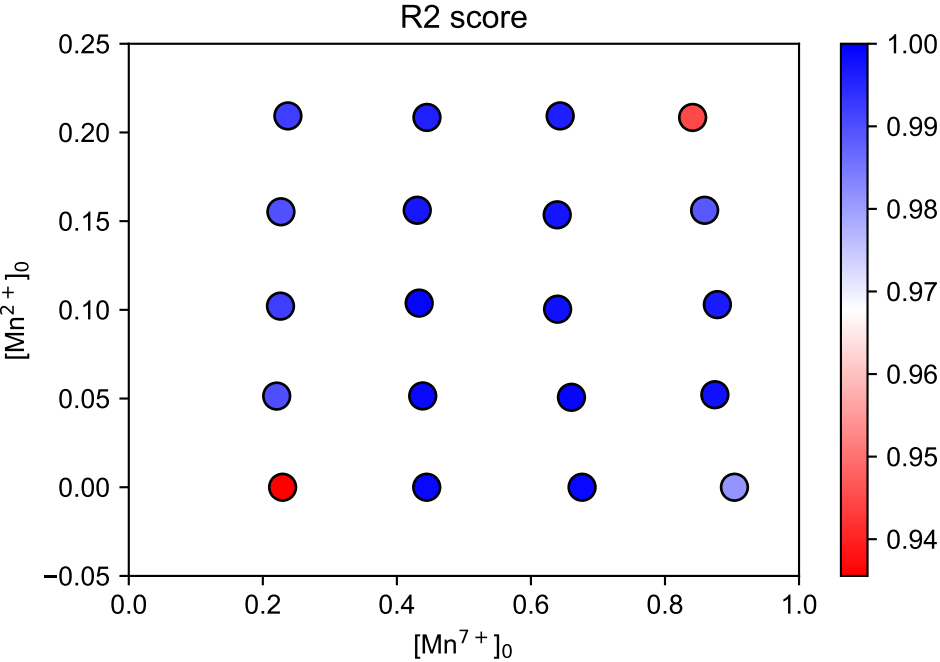


path: result/sparse_12_split
filename: 0017

chem formula:
['Mn+7', 'Mn+3', 'Mn+2', 'C2O4-2',
'CO2', 'Mn+6', 'Mn+5', 'Mn+4', 'C2O4-1',
'CO2-1']

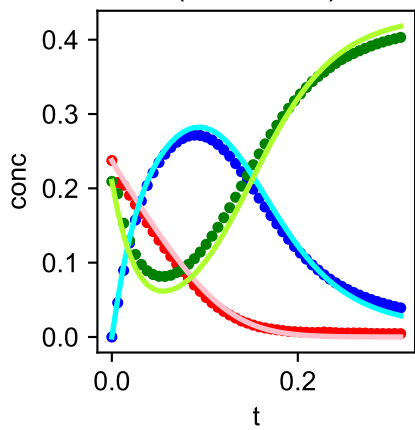
k_max = 1.00e+04
k_cut = 1.00e-02
lam = 1.28e-04
num_eq = 13
loss = 5.34e-03

MRSE train = 1.54e-03
MESE test = 1.66e-02

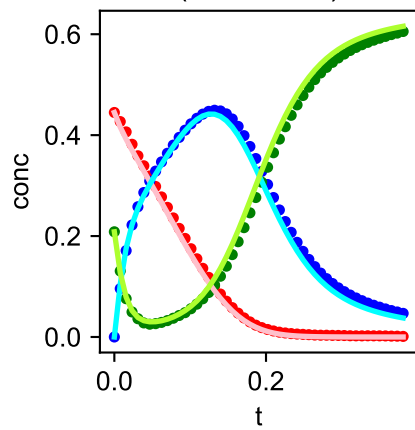


| | | | |
|------|---------------|-----------------------|-------------|
| (1) | Mn+7 + Mn+2 | -> Mn+5 + Mn+4 | k = 45.47 |
| (2) | Mn+7 + C2O4-2 | -> Mn+6 + C2O4-1 | k = 0.45 |
| (3) | Mn+7 + CO2-1 | -> CO2 + Mn+6 | k = 1019.66 |
| (4) | Mn+3 + C2O4-2 | -> Mn+2 + C2O4-1 | k = 1.34 |
| (5) | Mn+3 + CO2-1 | -> Mn+2 + CO2 | k = 395.85 |
| (6) | Mn+2 + Mn+6 | -> Mn+3 + Mn+5 | k = 9991.06 |
| (7) | Mn+2 + Mn+5 | -> Mn+3 + Mn+4 | k = 9979.44 |
| (8) | Mn+2 + Mn+4 | -> 2 Mn+3 | k = 9867.62 |
| (9) | Mn+2 + C2O4-1 | -> Mn+3 + C2O4-2 | k = 9.24 |
| (10) | C2O4-2 + Mn+4 | -> Mn+3 + C2O4-1 | k = 365.86 |
| (11) | Mn+3 + C2O4-2 | -> Mn+2 + CO2 + CO2-1 | k = 9.85 |
| (12) | C2O4-2 + Mn+5 | -> Mn+3 + 2 CO2 | k = 367.71 |
| (13) | Mn+6 + C2O4-1 | -> 2 CO2 + Mn+5 | k = 437.69 |

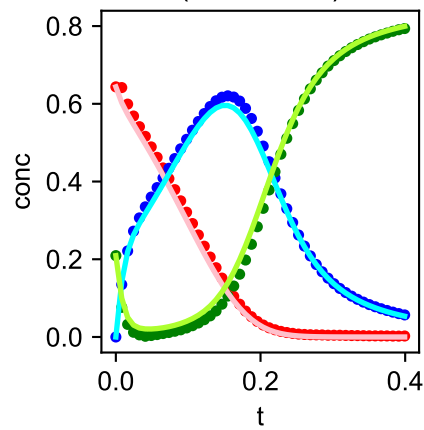
(0.24, 0.21)



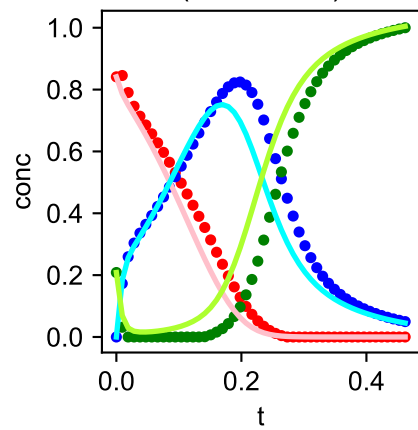
(0.44, 0.21)



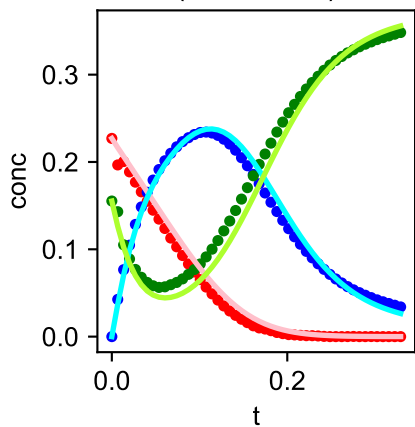
(0.64, 0.21)



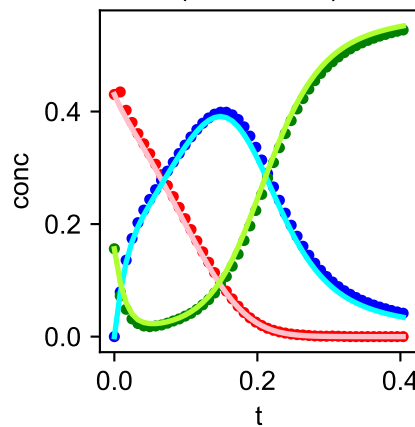
(0.84, 0.21)



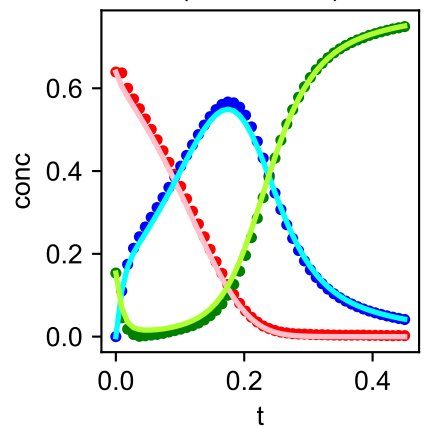
(0.23, 0.16)



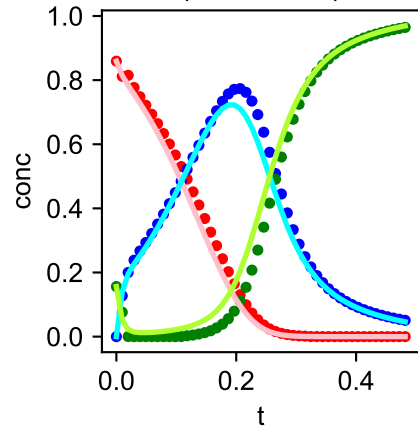
(0.43, 0.16)



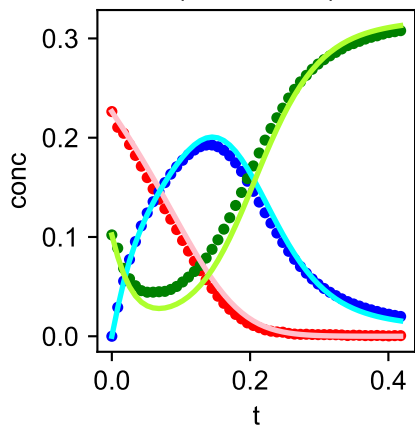
(0.64, 0.15)



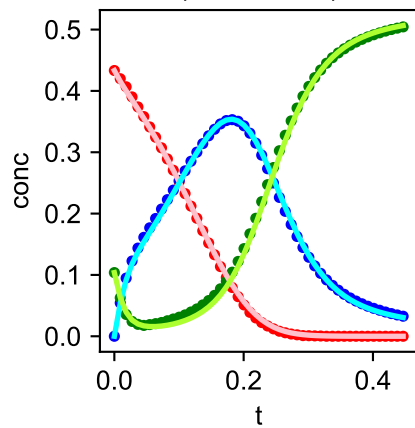
(0.86, 0.16)



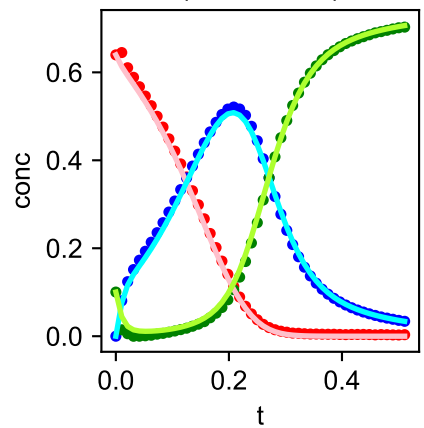
(0.23, 0.10)



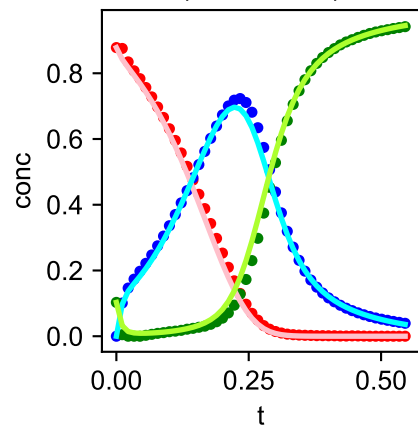
(0.43, 0.10)



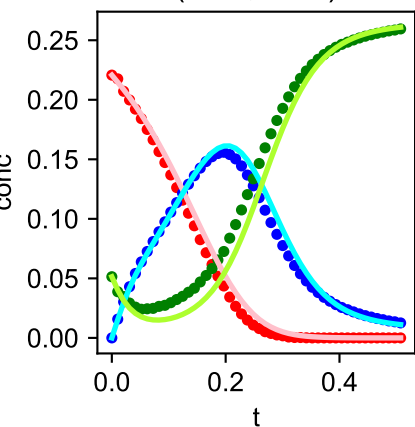
(0.64, 0.10)



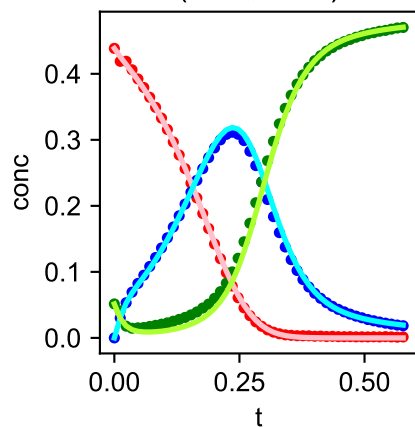
(0.88, 0.10)



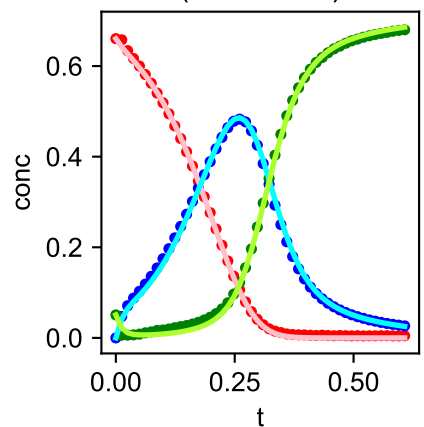
(0.22, 0.05)



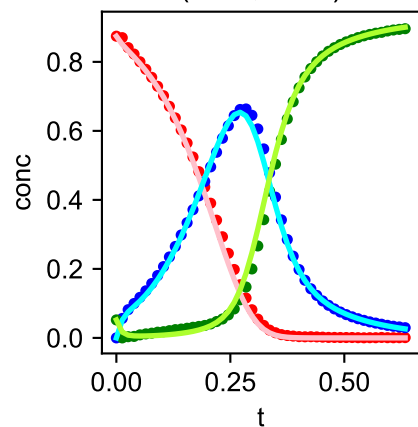
(0.44, 0.05)



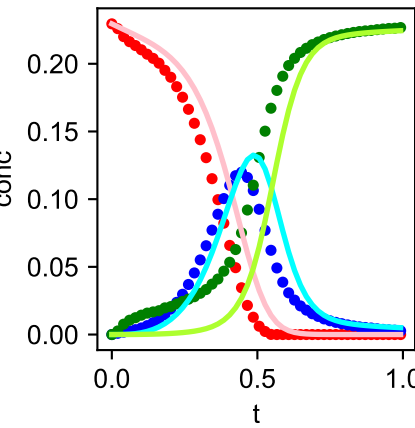
(0.66, 0.05)



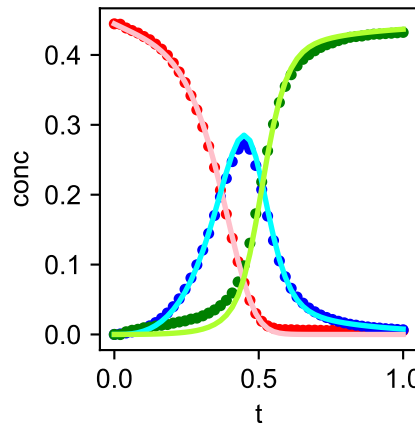
(0.87, 0.05)



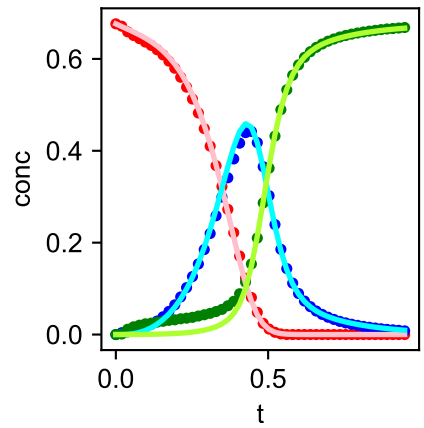
(0.23, 0.00)



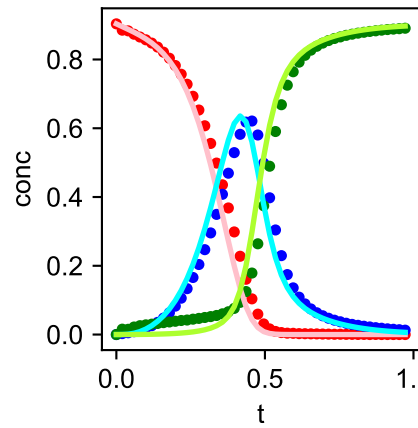
(0.44, 0.00)



(0.68, 0.00)



(0.90, 0.00)

([Mn⁷⁺]₀, [Mn²⁺]₀)— sim(Mn⁷⁺)— sim(Mn³⁺)— sim(Mn²⁺)• exp(Mn⁷⁺)• exp(Mn³⁺)• exp(Mn²⁺)