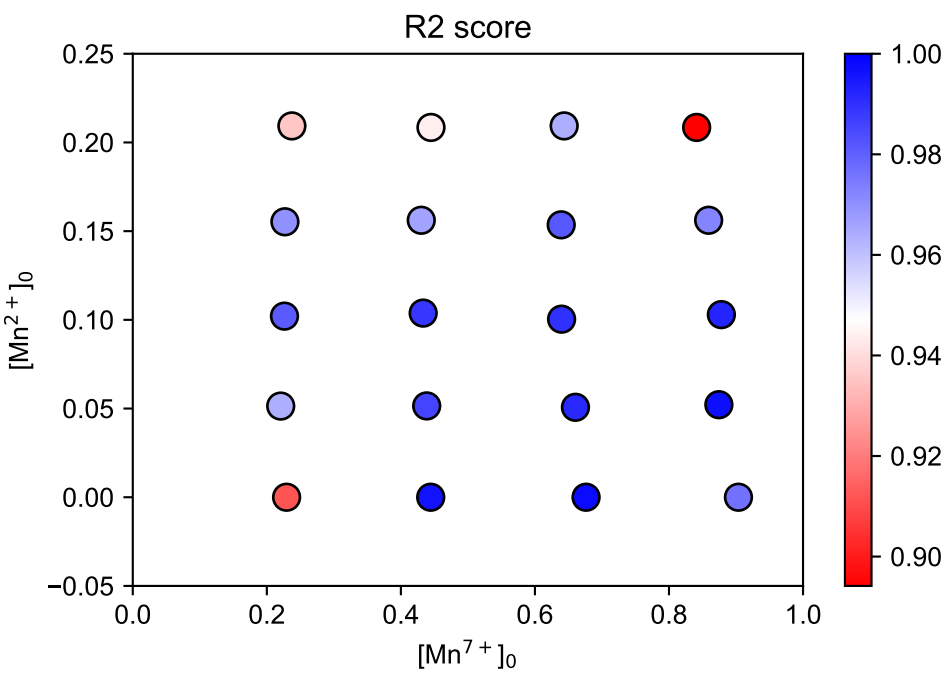
path: result/sparse_literature_split
filename: 0013

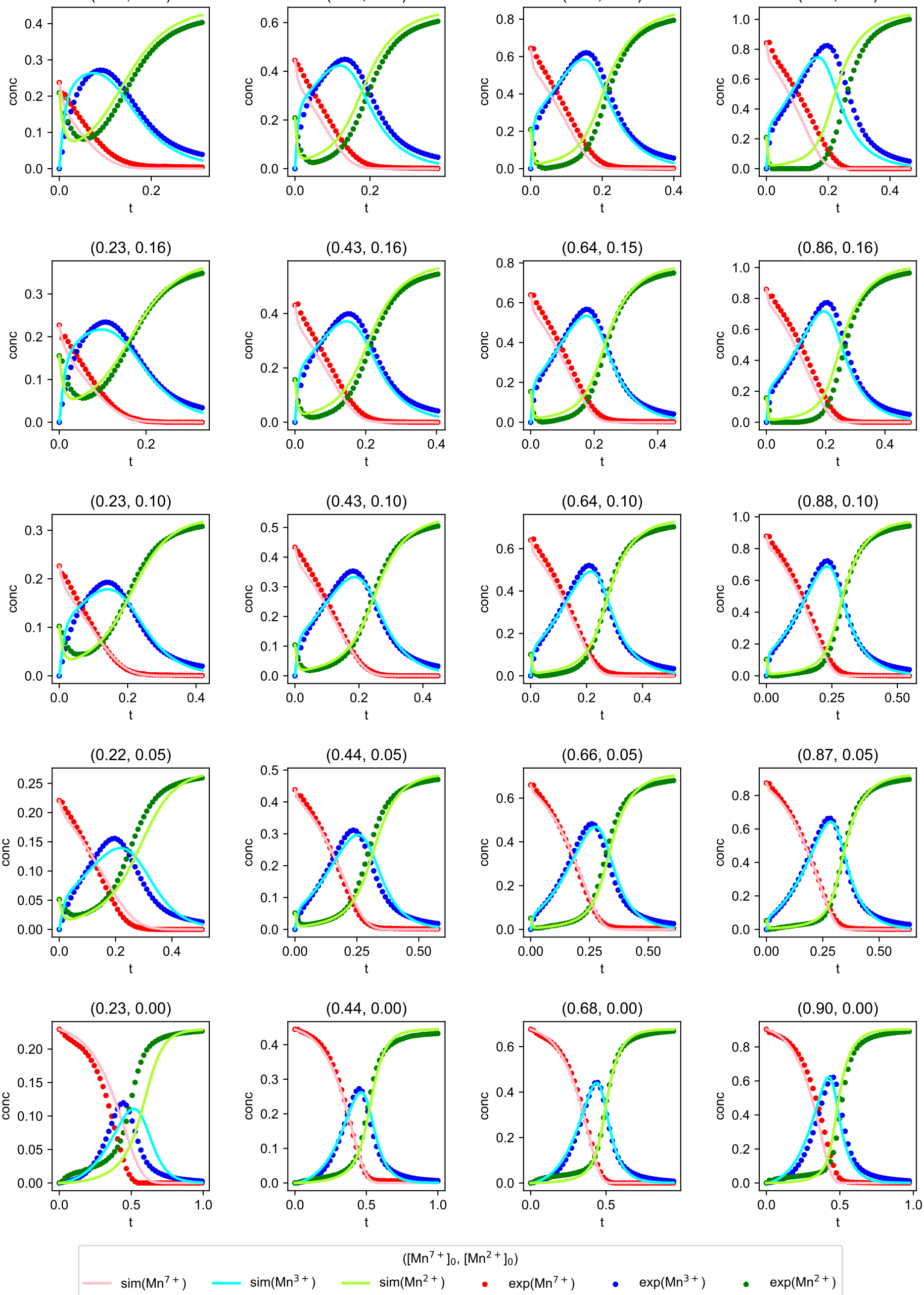
chem formula:
['Mn+7', 'Mn+3', 'Mn+2', 'Mn+6', 'Mn+4']

k_max = 1.00e+04
k_cut = 1.00e-02
lam = 1.02e-03
num_eq = 6
loss = 2.71e-02

MRSE train = 1.28e-02
MESE test = 4.15e-02




```
( 1) Mn+7 + Mn+2      -> Mn+3 + Mn+6      k = 189.24
( 2) Mn+2 + Mn+6      -> 2 Mn+4           k = 10000.00
( 3) Mn+6             -> Mn+4             k = 246.91
( 4) 2 Mn+4           -> 2 Mn+3           k = 9843.16
( 5) Mn+3             -> Mn+2             k = 13.88
( 6) Mn+7             -> Mn+6             k = 0.36
```


(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)
conc
t
([Mn7+]0, [Mn2+]0)
sim(Mn7+)
sim(Mn3+)
sim(Mn2+)
exp(Mn7+)
exp(Mn3+)
exp(Mn2+)