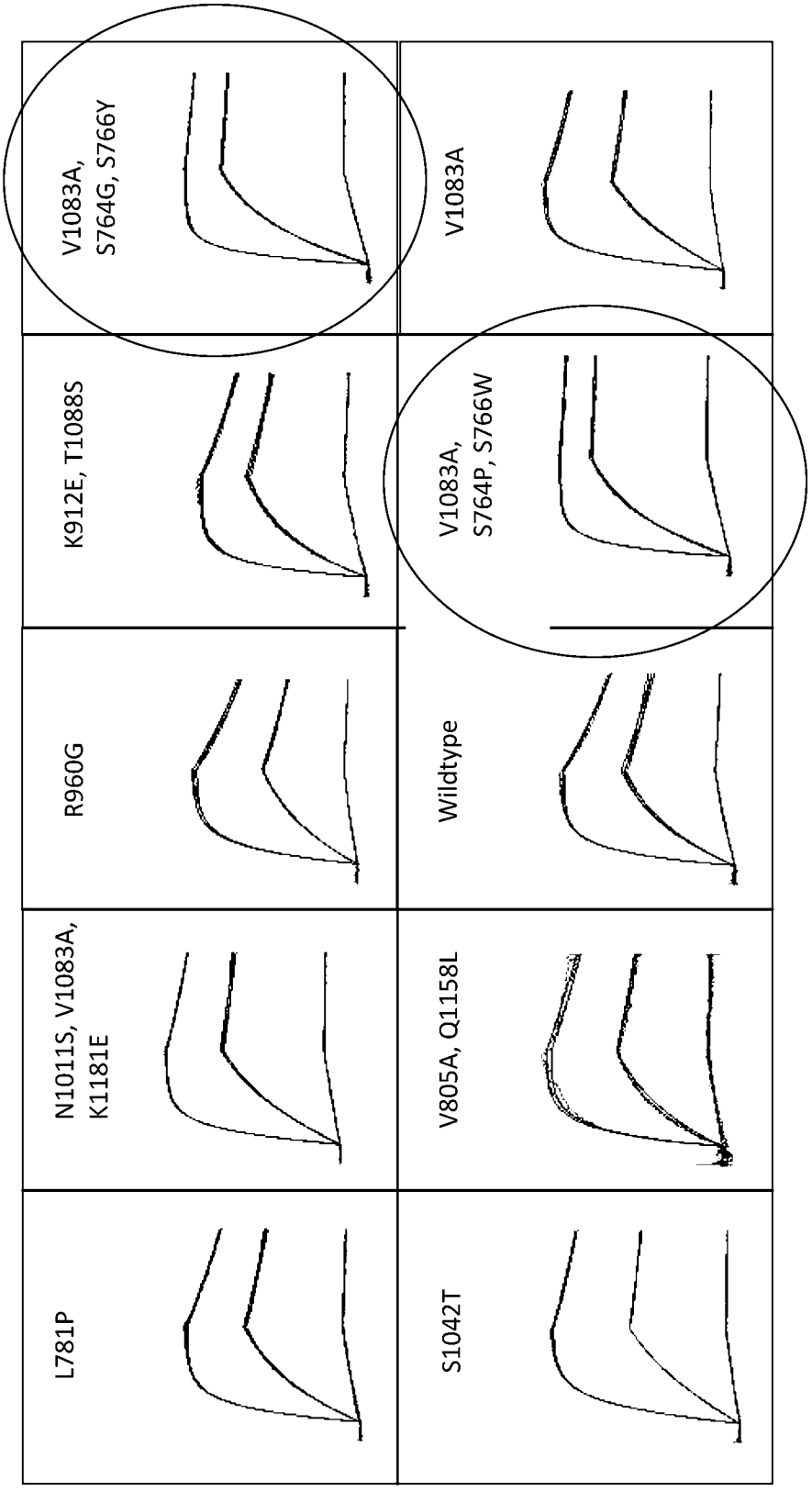

L781P
N1011S, V1083A, K1181E
R960G
K912E, T1088S
V1083A, S764G, S766Y
S1042T
V805A, Q1158L
Wildtype
V1083A, S764P, S766W
V1083A

Figure 1

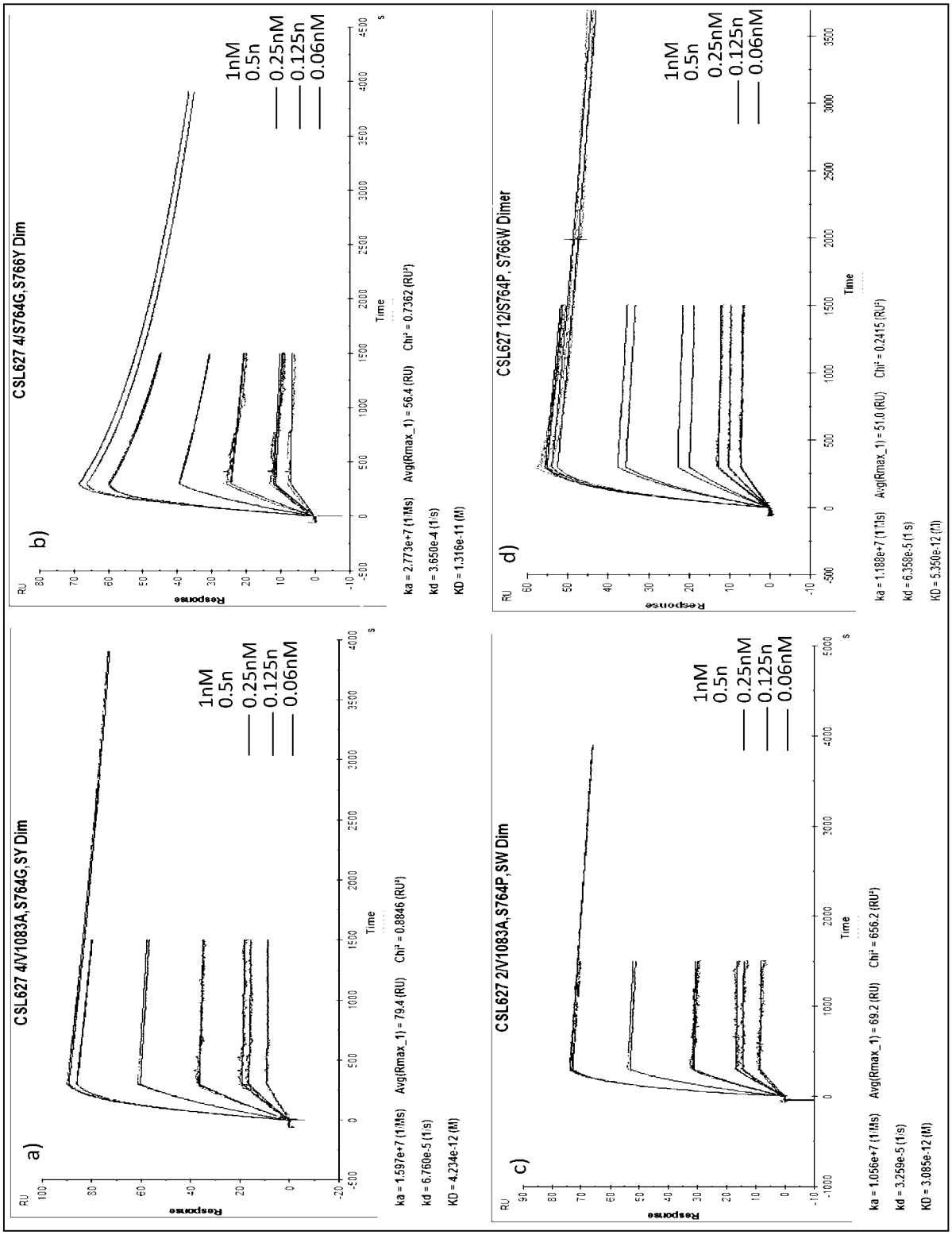
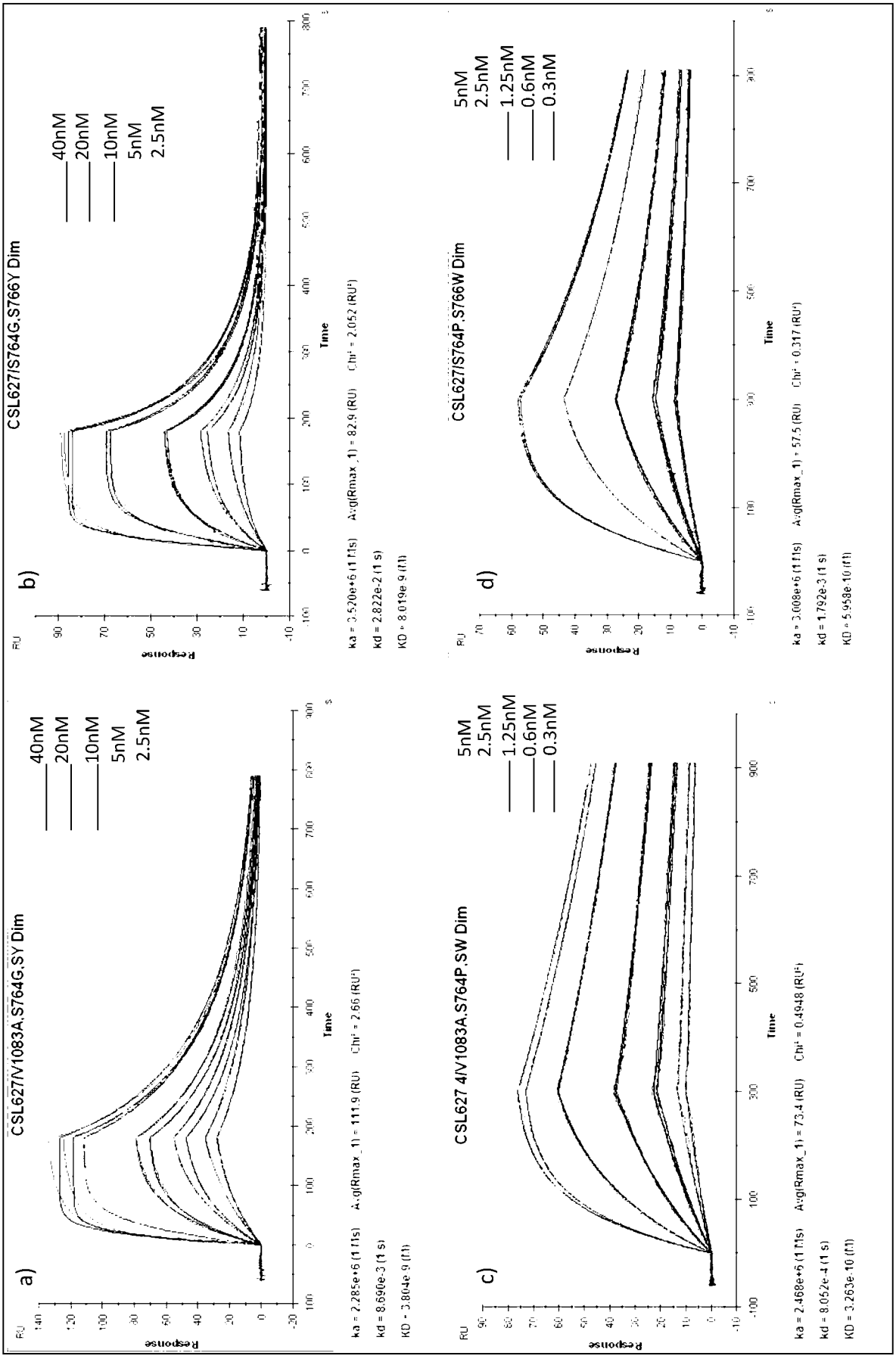

a)
CSL627 4/V1083A,S764G,SY Dim
1nM
0.5n
0.25nM
0.125n
0.06nM
Response
Time
ka = 1.597e+7 (1/Ms) Avg(Rmax_1) = 79.4 (RU) Chi² = 0.8846 (RU²)
kd = 6.760e-5 (1/s)
KD = 4.234e-12 (M)
b)
CSL627 4/S764G,S766Y Dim
ka = 2.773e+7 (1/Ms) Avg(Rmax_1) = 56.4 (RU) Chi² = 0.7362 (RU²)
kd = 3.650e-4 (1/s)
KD = 1.316e-11 (M)
c)
CSL627 2/V1083A,S764P,SW Dim
ka = 1.056e+7 (1/Ms) Avg(Rmax_1) = 69.2 (RU) Chi² = 656.2 (RU²)
kd = 3.259e-5 (1/s)
KD = 3.085e-12 (M)
d)
CSL627 12/S764P, S766W Dimer
ka = 1.188e+7 (1/Ms) Avg(Rmax_1) = 51.0 (RU) Chi² = 0.2415 (RU²)
kd = 6.358e-5 (1/s)
KD = 5.350e-12 (M)

Figure 2

Figure 3


a)
CSL627/V1083A.S764G.SY Dim
40nM
20nM
10nM
5nM
2.5nM
RU
Response
Time
ka = 2.285e+6 (1/Ms) Avg(Rmax_1) = 111.9 (RU) Chi² = 2.66 (RU²)
kd = 8.690e-3 (1/s)
KD = 3.804e-9 (M)
b)
CSL627/S764G.S766Y Dim
40nM
20nM
10nM
5nM
2.5nM
RU
Response
Time
ka = 3.520e+6 (1/Ms) Avg(Rmax_1) = 82.9 (RU) Chi² = 2.052 (RU²)
kd = 2.822e-2 (1/s)
KD = 8.019e-9 (M)
c)
CSL627 4/V1083A.S764P.SW Dim
5nM
2.5nM
1.25nM
0.6nM
0.3nM
RU
Response
Time
ka = 2.468e+6 (1/Ms) Avg(Rmax_1) = 73.4 (RU) Chi² = 0.4948 (RU²)
kd = 8.052e-4 (1/s)
KD = 3.263e-10 (M)
d)
CSL627/S764P.S766W Dim
5nM
2.5nM
1.25nM
0.6nM
0.3nM
RU
Response
Time
ka = 3.008e+6 (1/Ms) Avg(Rmax_1) = 57.5 (RU) Chi² = 0.317 (RU²)
kd = 1.792e-3 (1/s)
KD = 5.958e-10 (M)

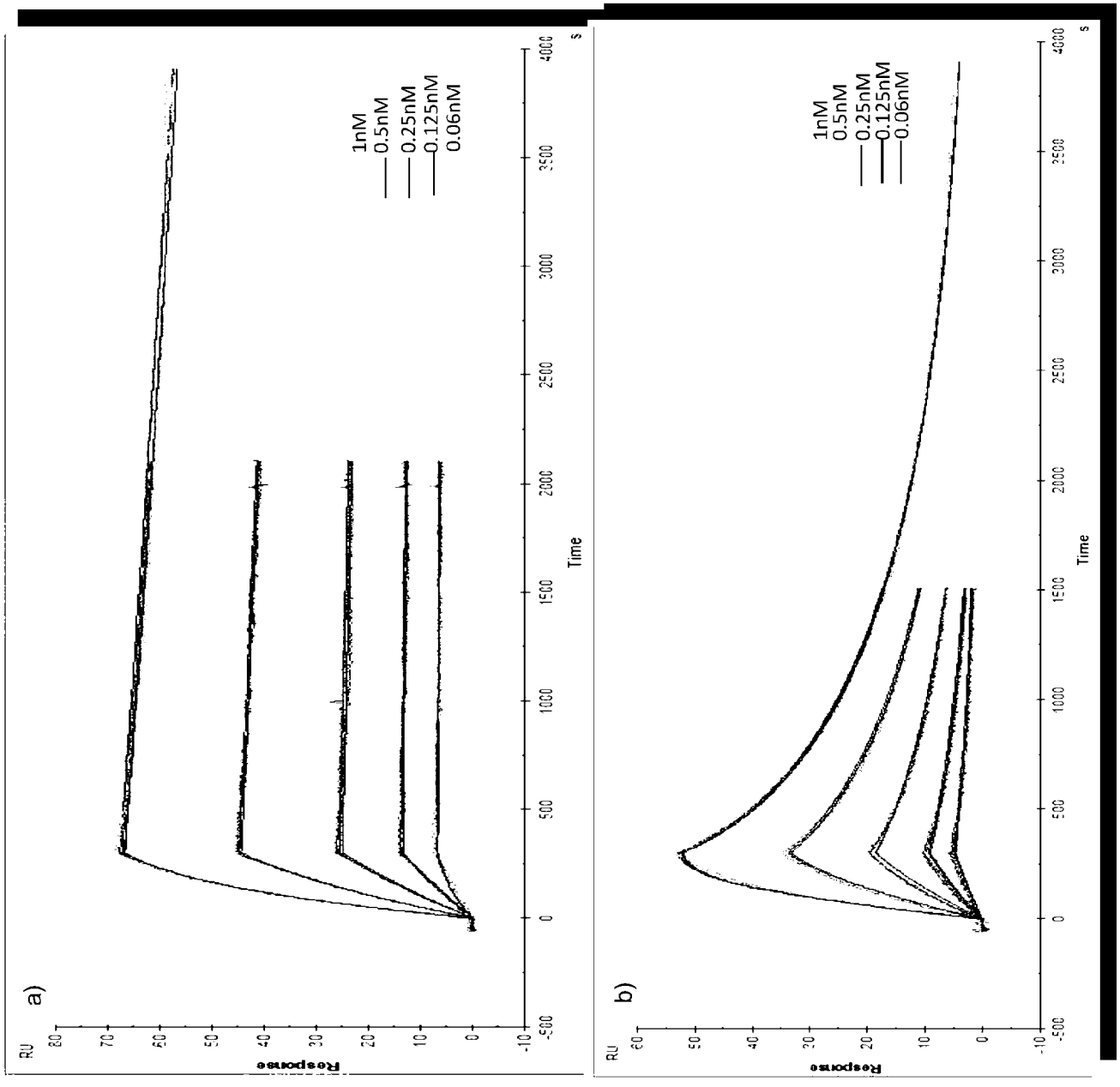

a)
RU
Response
Time
s
1nM
0.5nM
0.25nM
0.125nM
0.06nM
b)
RU
Response
Time
s
1nM
0.5nM
0.25nM
0.125nM
0.06nM

Figure 4

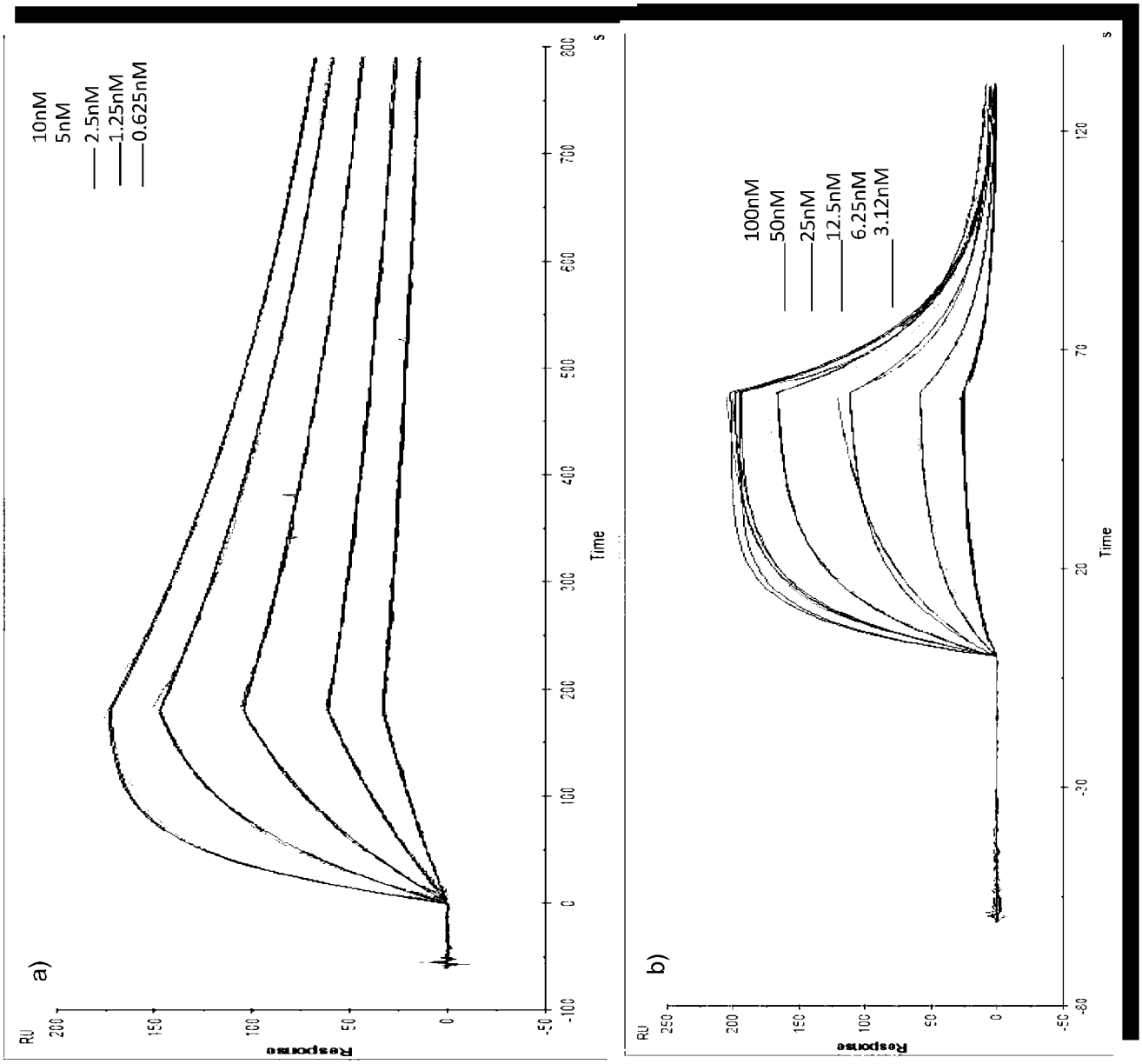

a)
RU
Response
Time
s
10nM
5nM
2.5nM
1.25nM
0.625nM
b)
RU
Response
Time
s
100nM
50nM
25nM
12.5nM
6.25nM
3.12nM

Figure 5