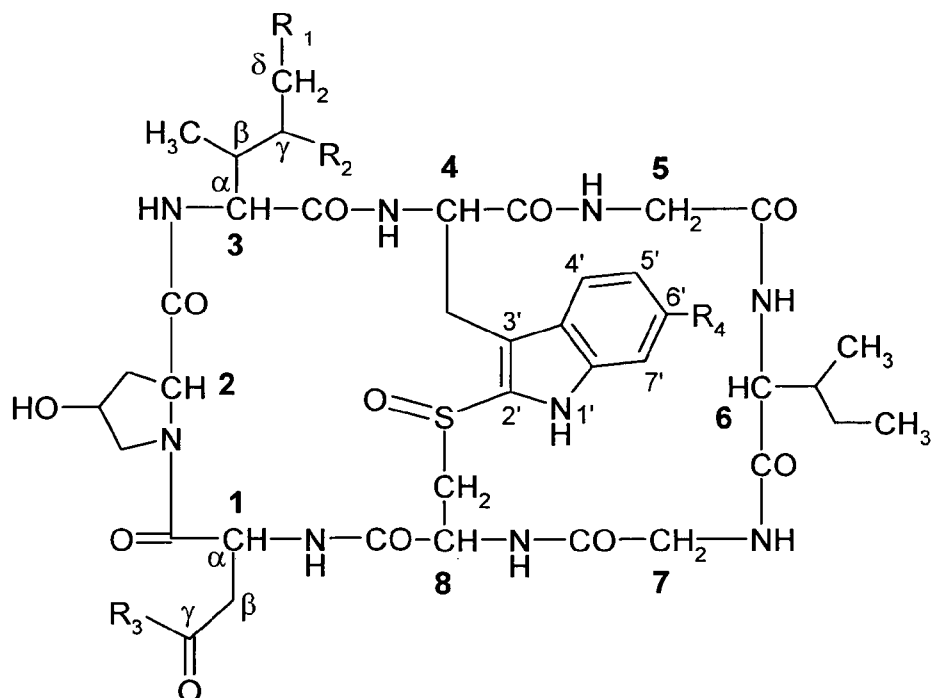


Figure 1

	R ₁	R ₂	R ₃	R ₄
α-amanitin	OH	OH	NH ₂	OH
β-amanitin	OH	OH	OH	OH
γ-amanitin	H	OH	NH ₂	OH
ε-amanitin	H	OH	OH	OH
amanin	OH	OH	OH	H
amaninamide	OH	OH	NH ₂	H
amanullin	H	H	NH ₂	OH
amanullinic acid	H	H	OH	OH

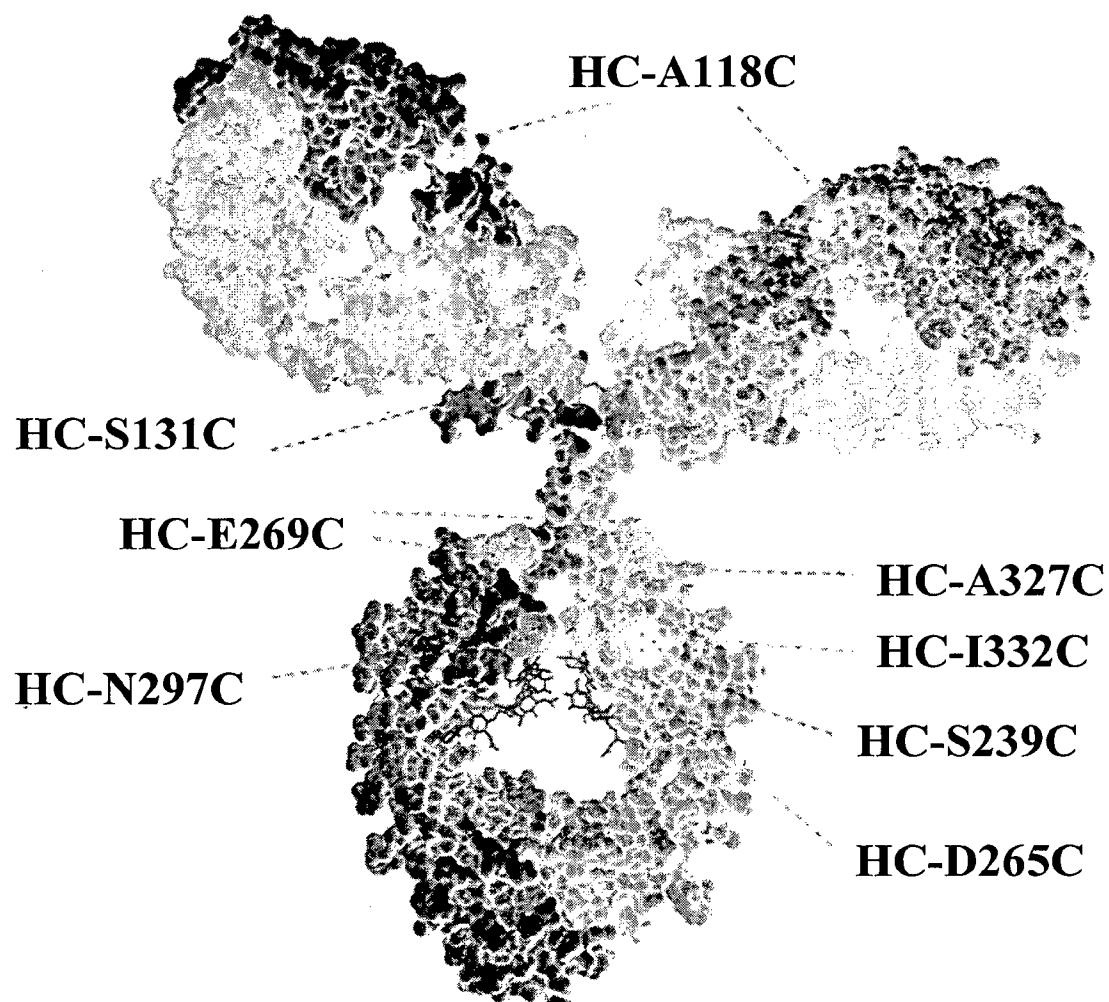
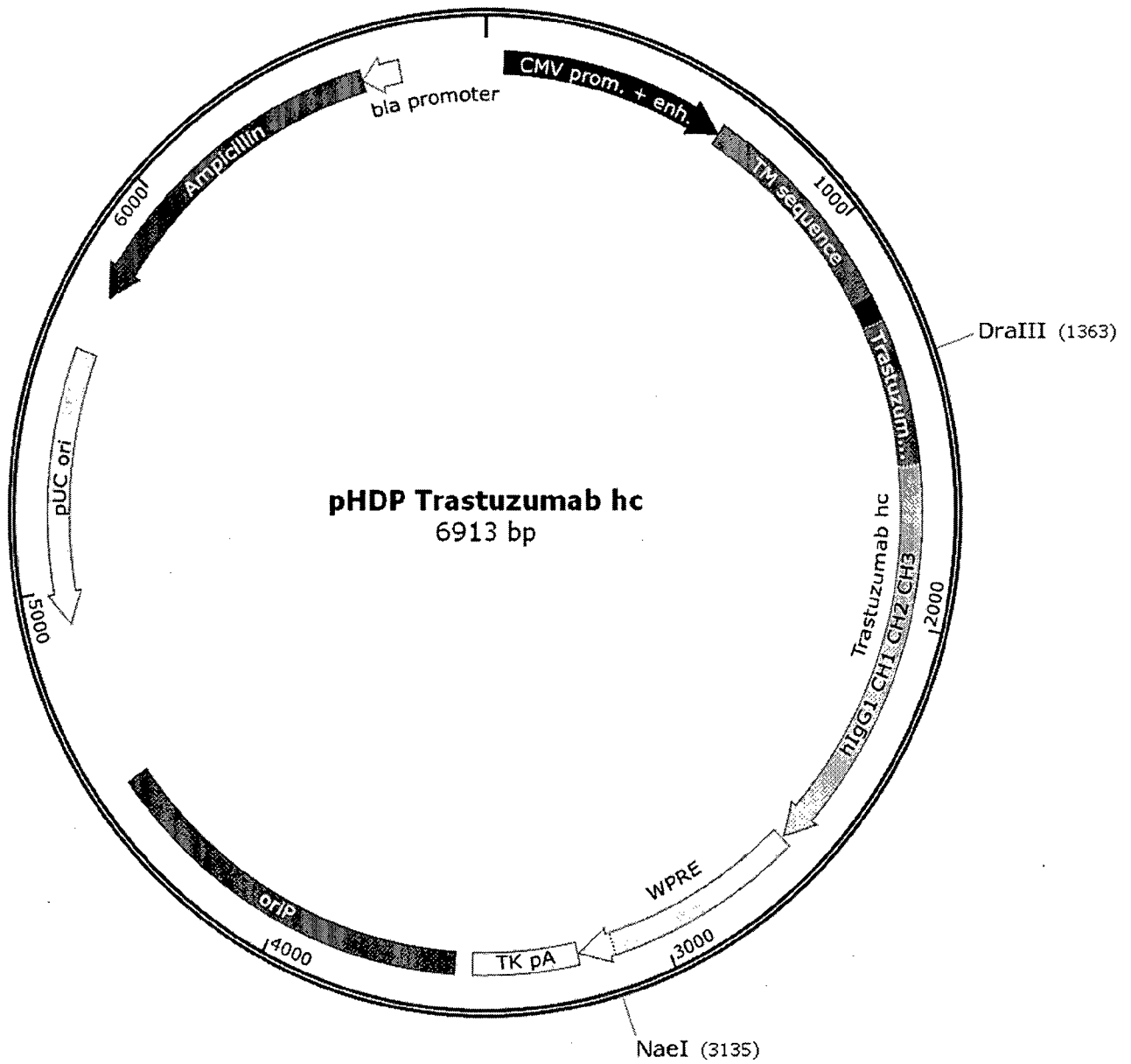
Figure 2

Figure 3

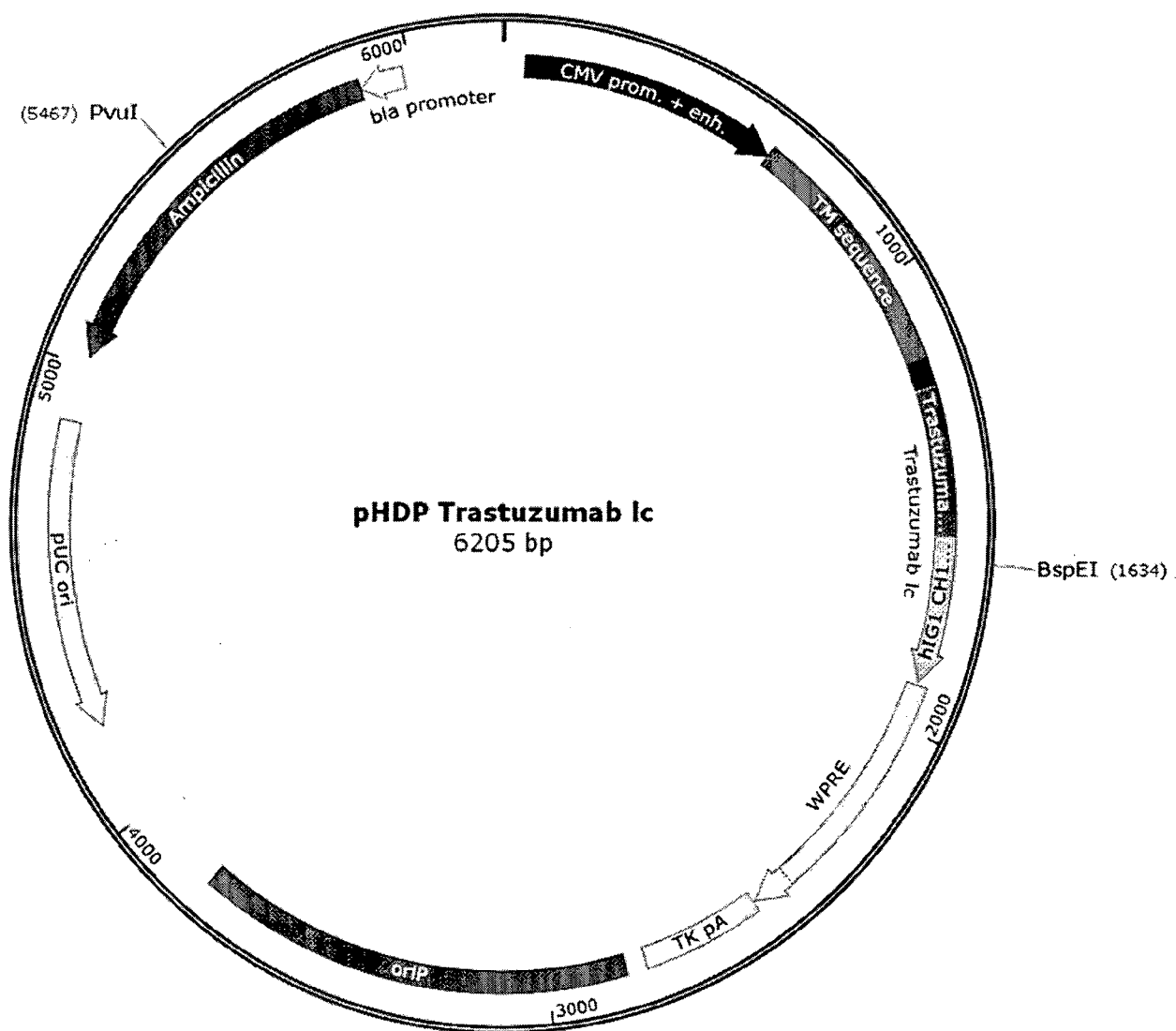
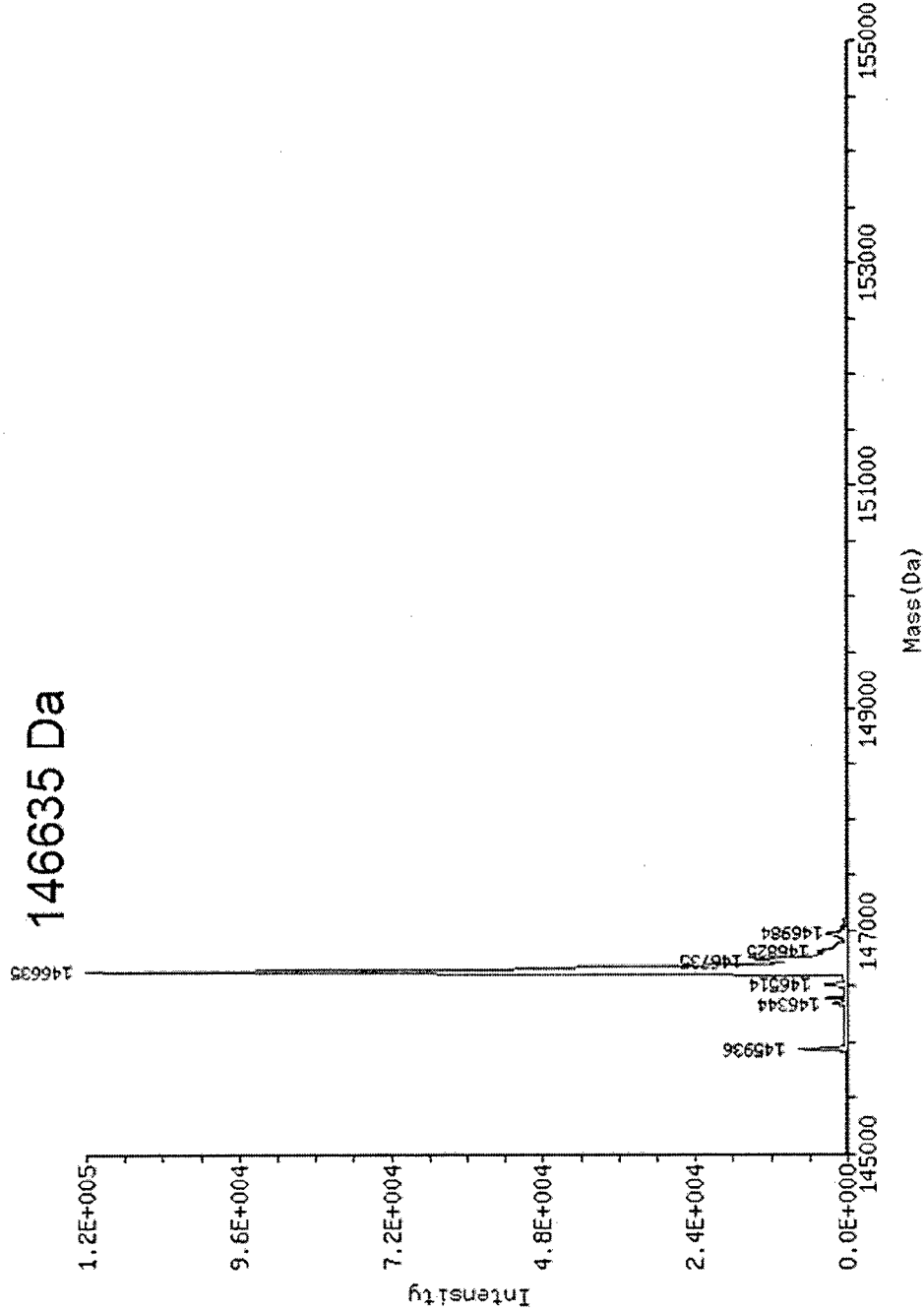


Figure 4(A)
(a)



(b)

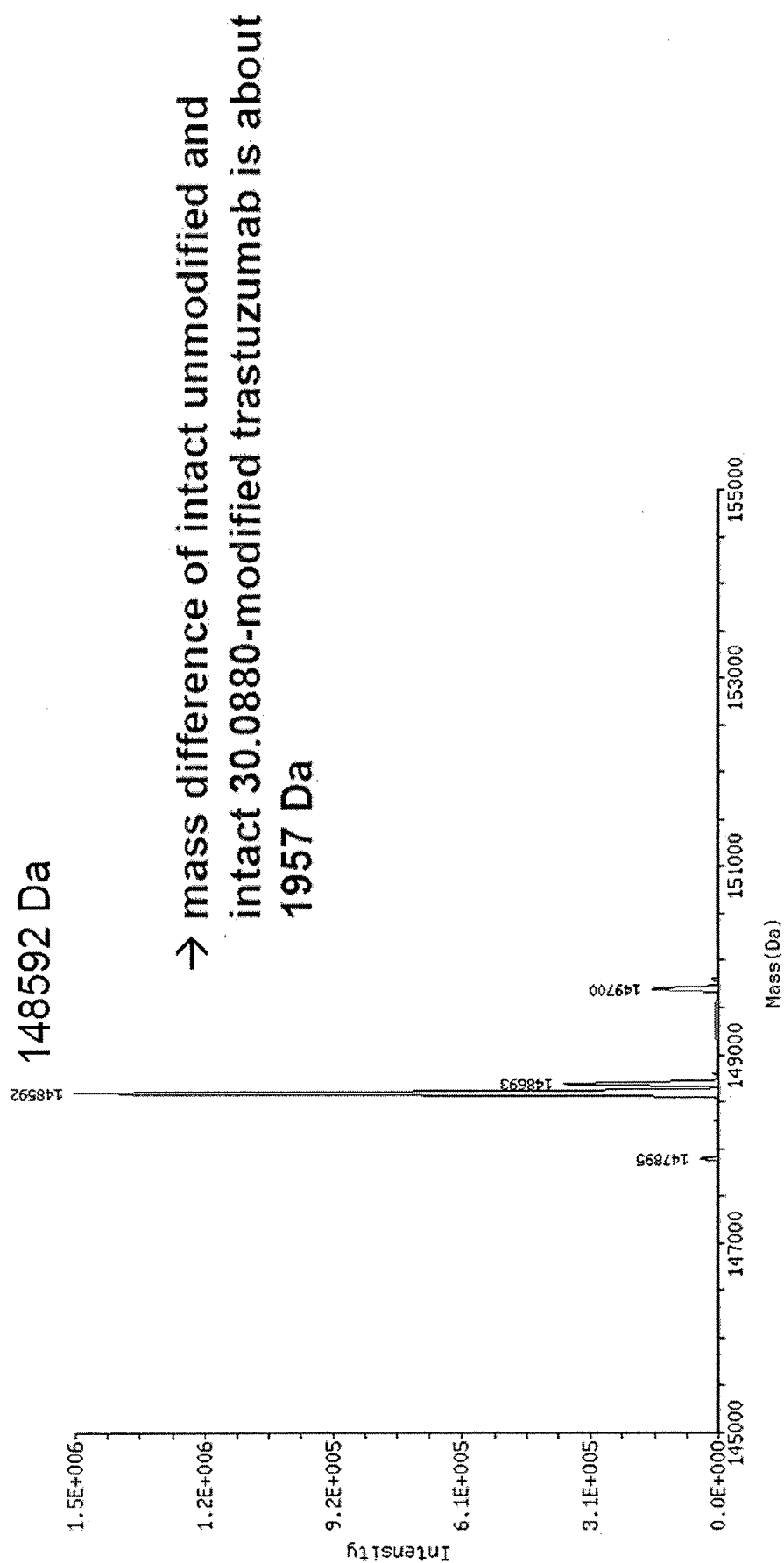
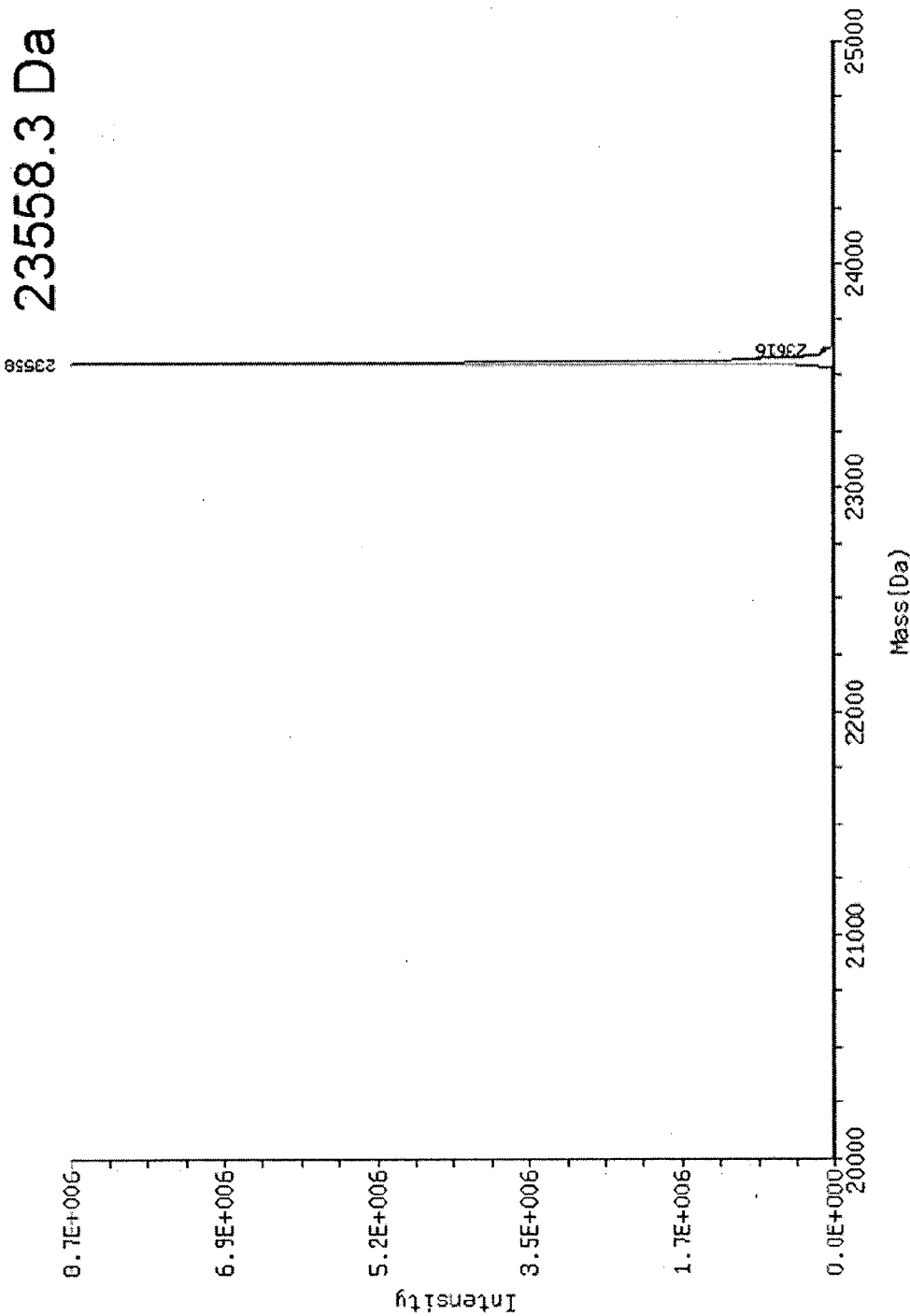


Figure 4(B)
(a)



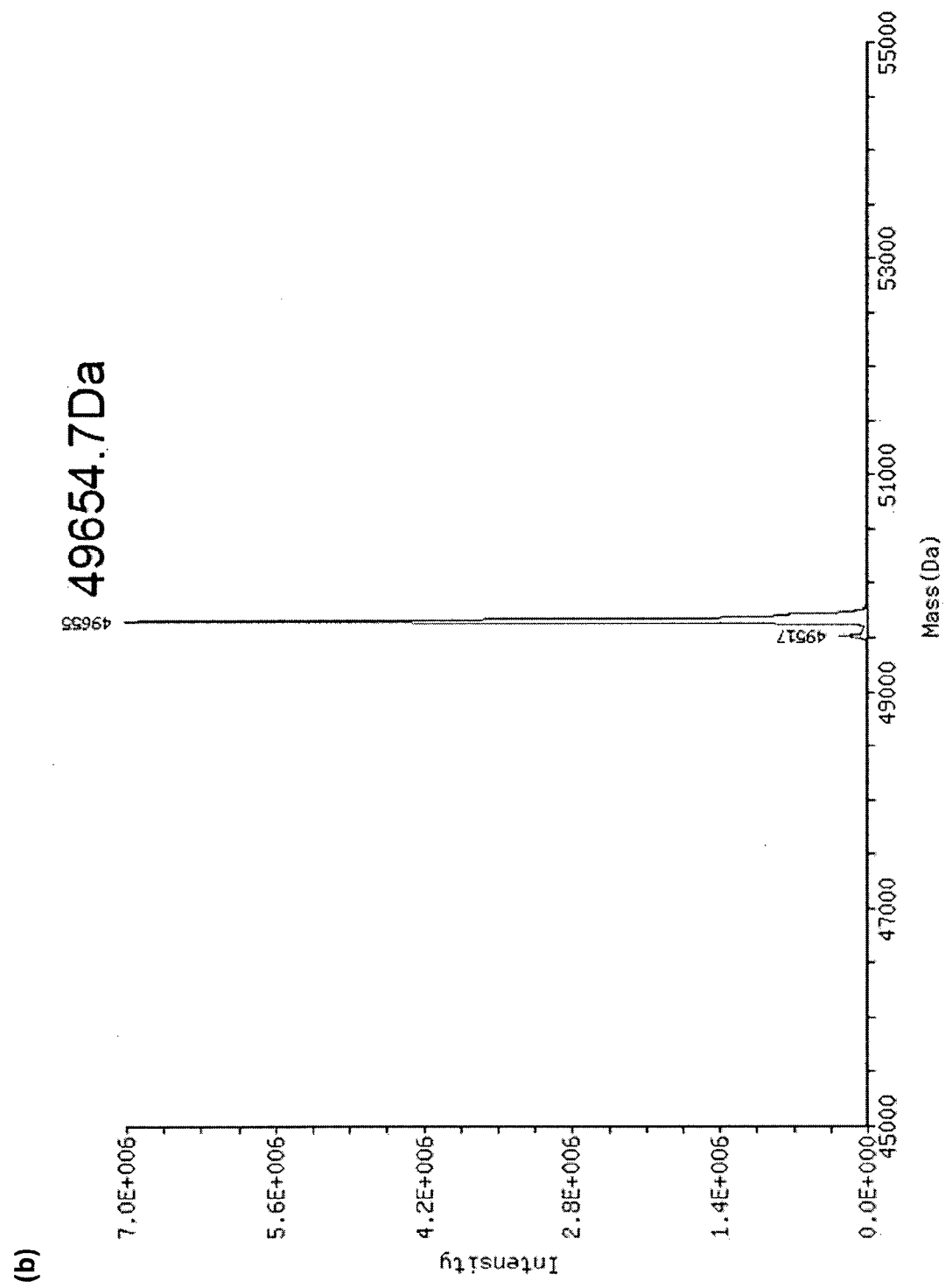
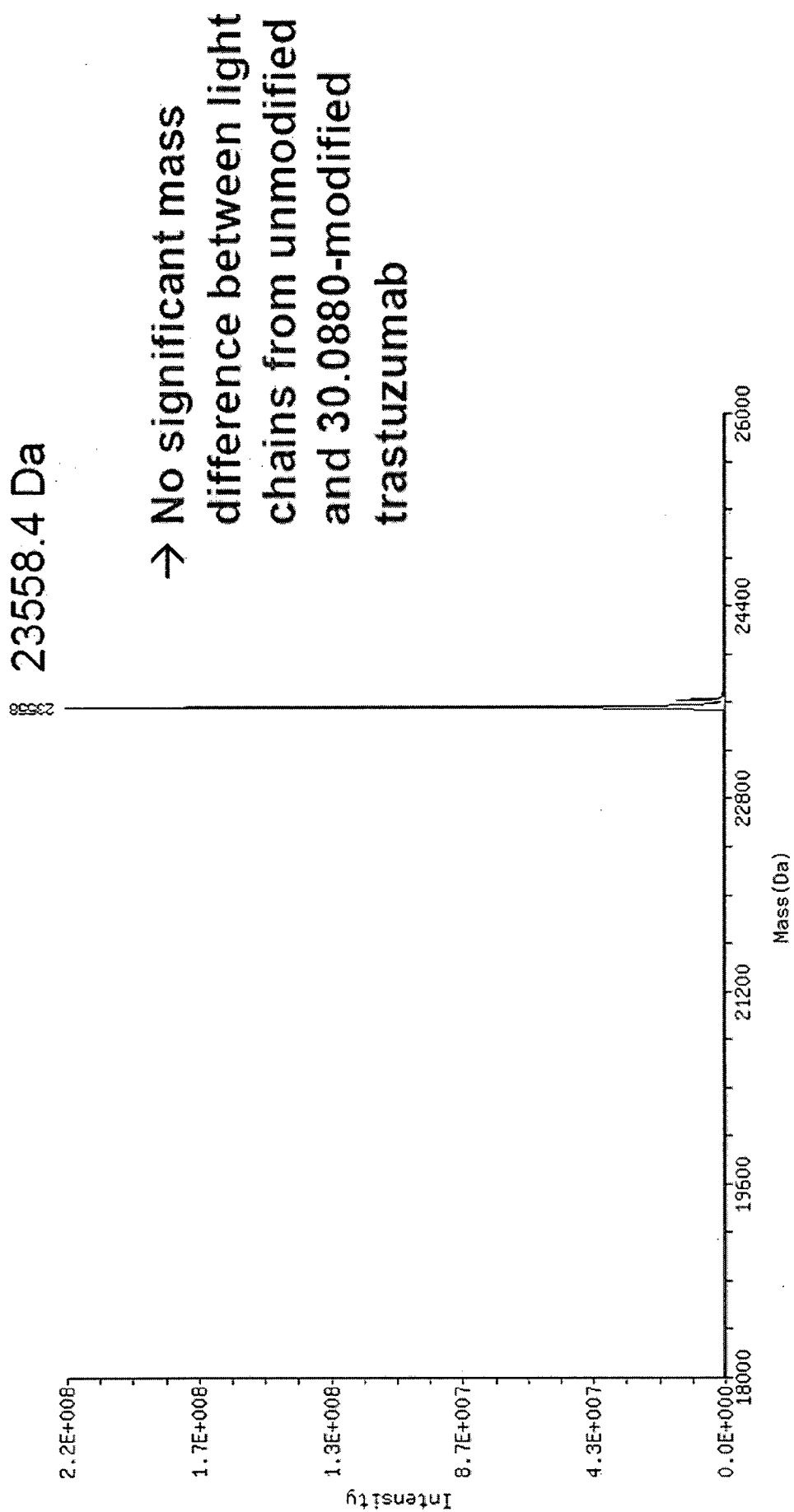
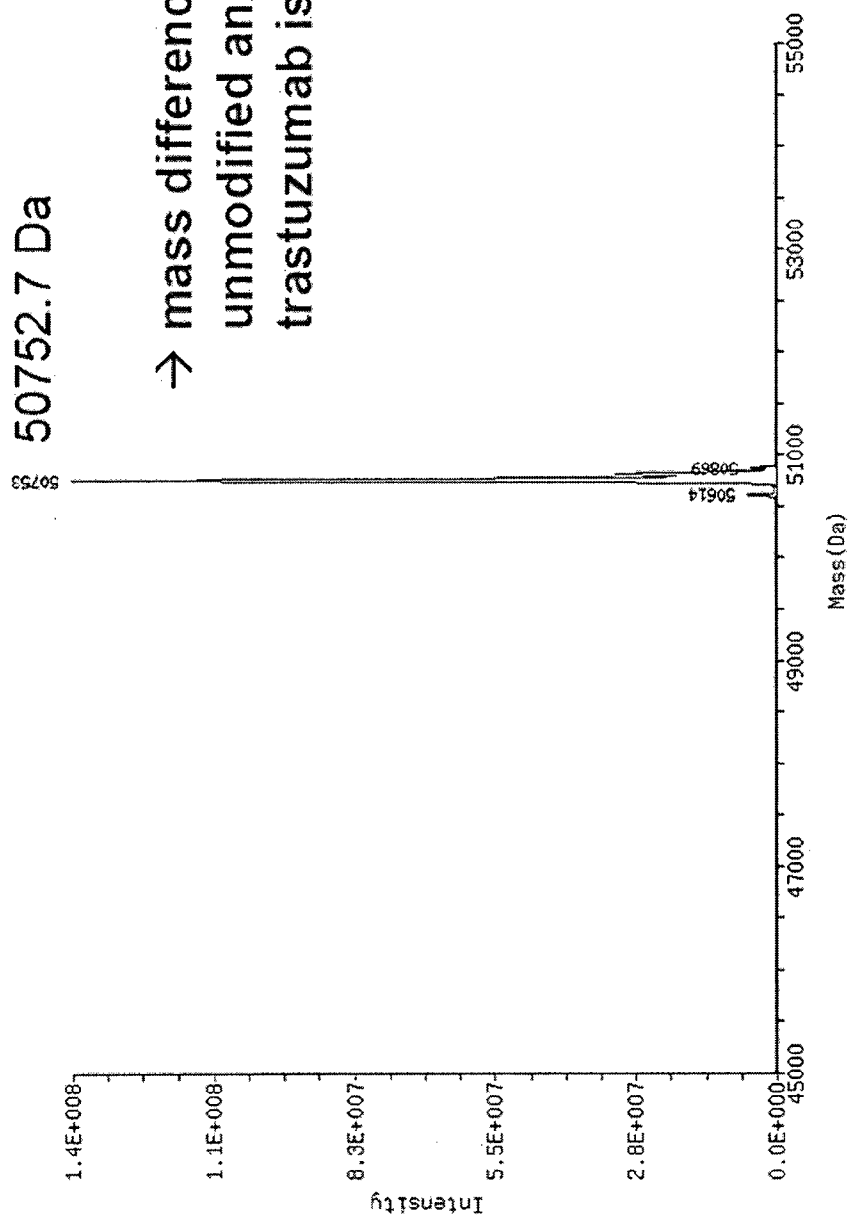


Figure 4(C)

(a)



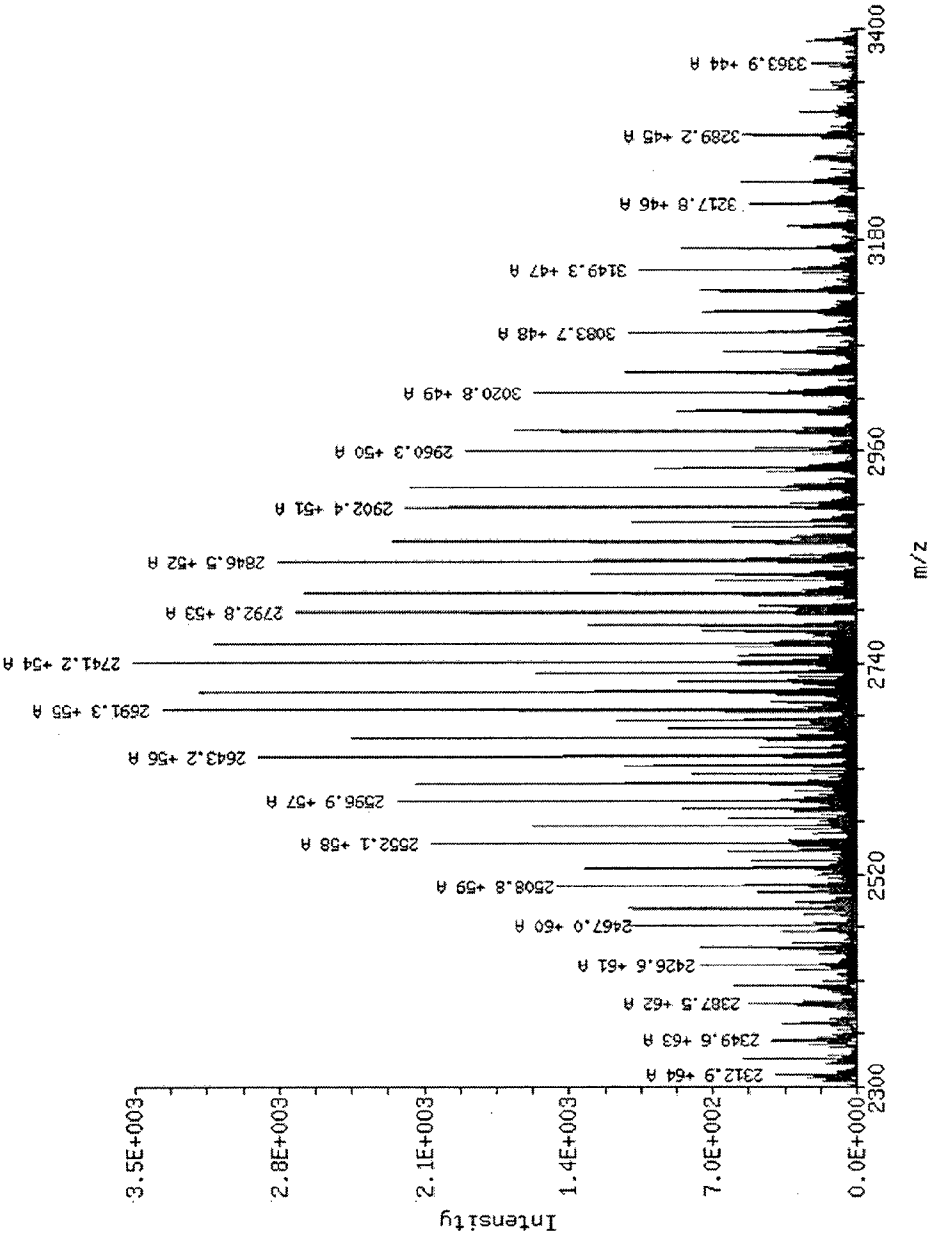
(b)



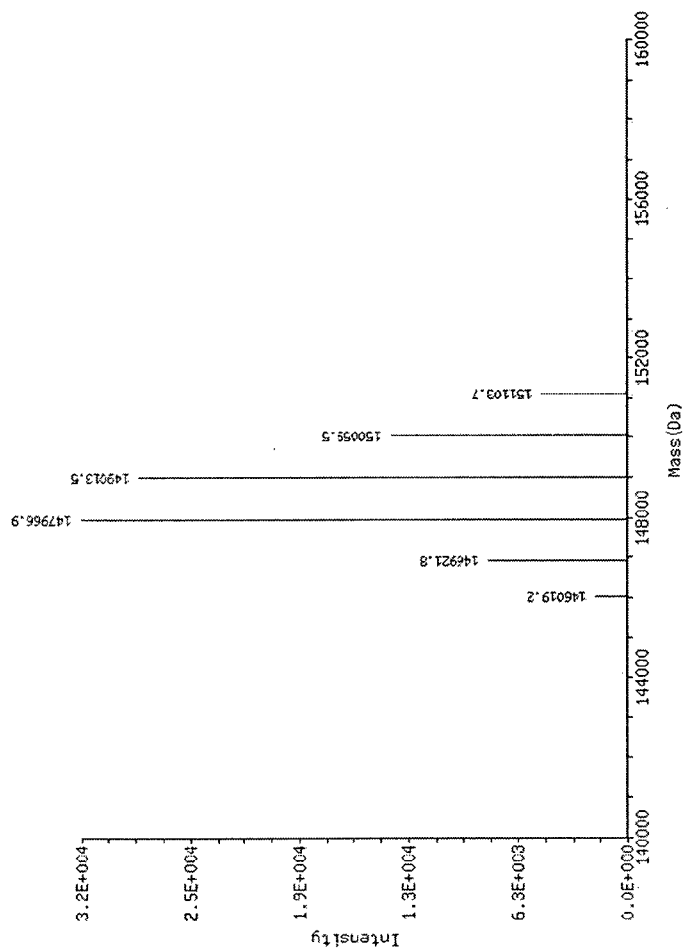
→ mass difference between heavy chains of unmodified and 30.0880-modified trastuzumab is about 1098 Da

3_Her_30.0643_intakt

Figure 5(A)



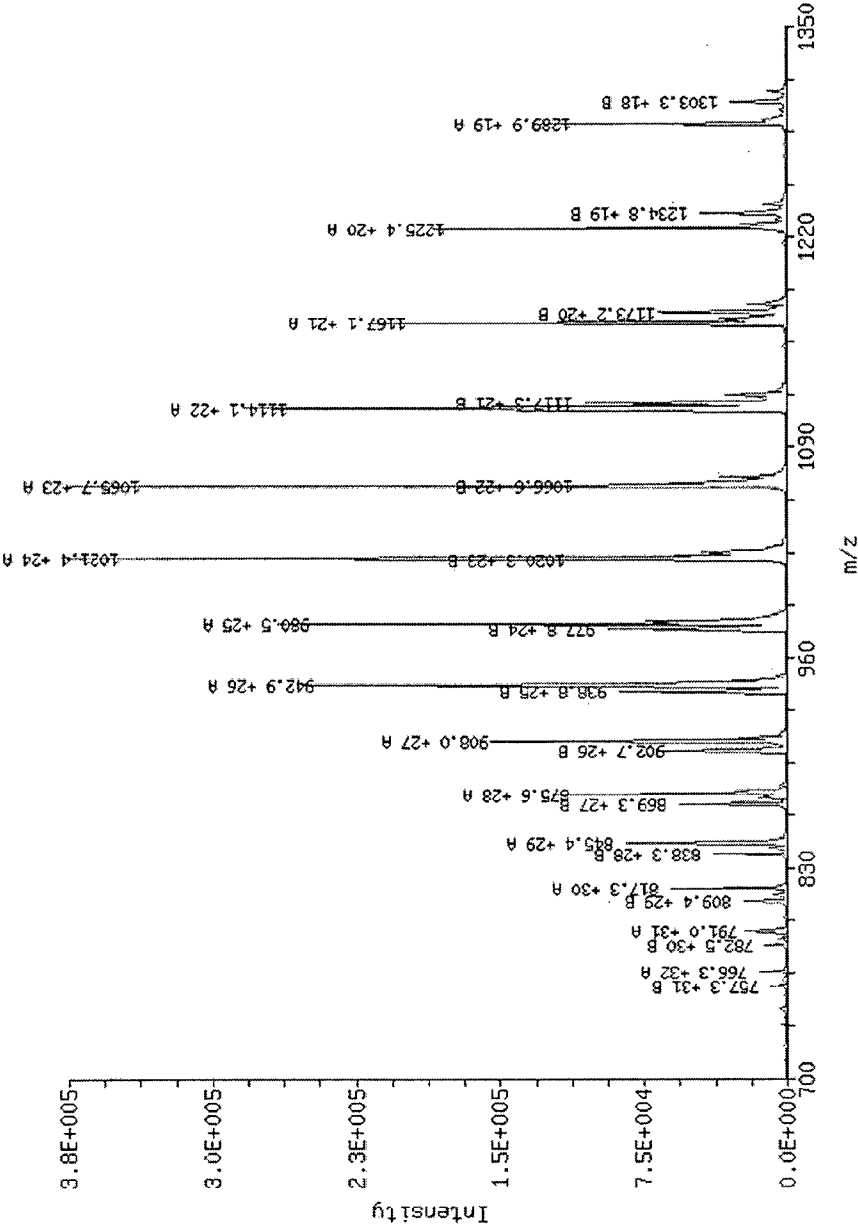
3_FTMS_Her_30.0643_intakt



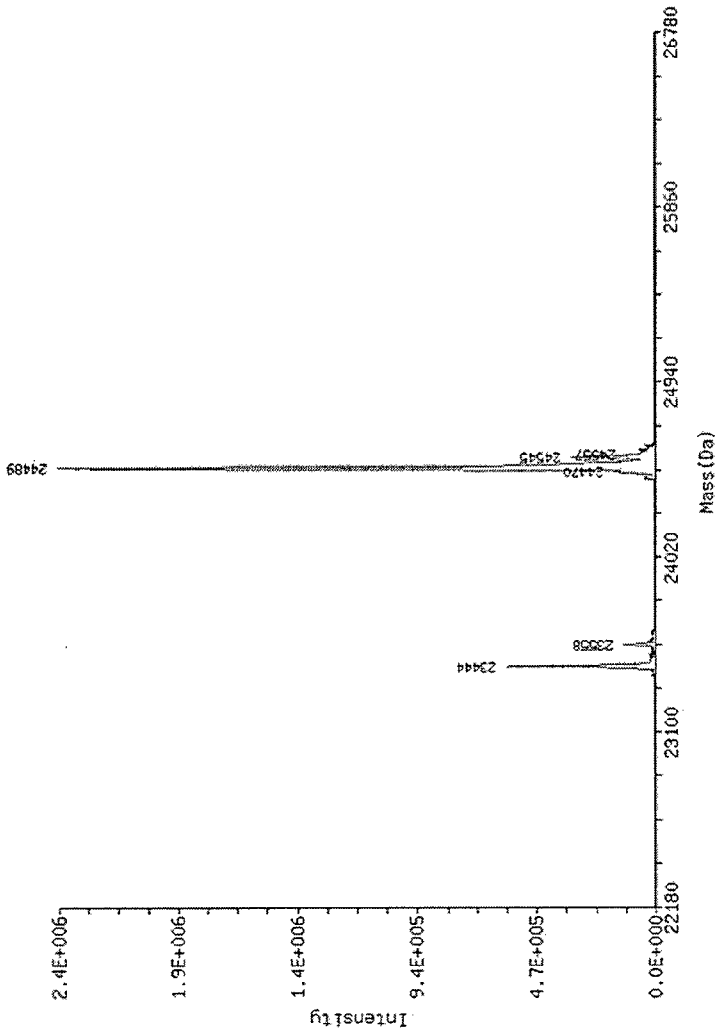
Mass (Da)	Intensity	Score	Delta Mass	%Relative	%Total
147966.9	3.16E+004	26.33	0.0	100.00	35.89
149013.5	2.82E+004	25.40	1046.6	89.24	32.03
150059.5	1.36E+004	19.05	2092.6	43.04	15.45
146921.8	7.96E+003	14.81	-1045.1	25.19	9.04
151103.7	4.88E+003	10.38	3136.8	15.44	5.54
146019.2	1.81E+003	2.32	-1947.7	5.73	2.06

Figure 5(B)

3_Her_30.0643_reduziert_LC



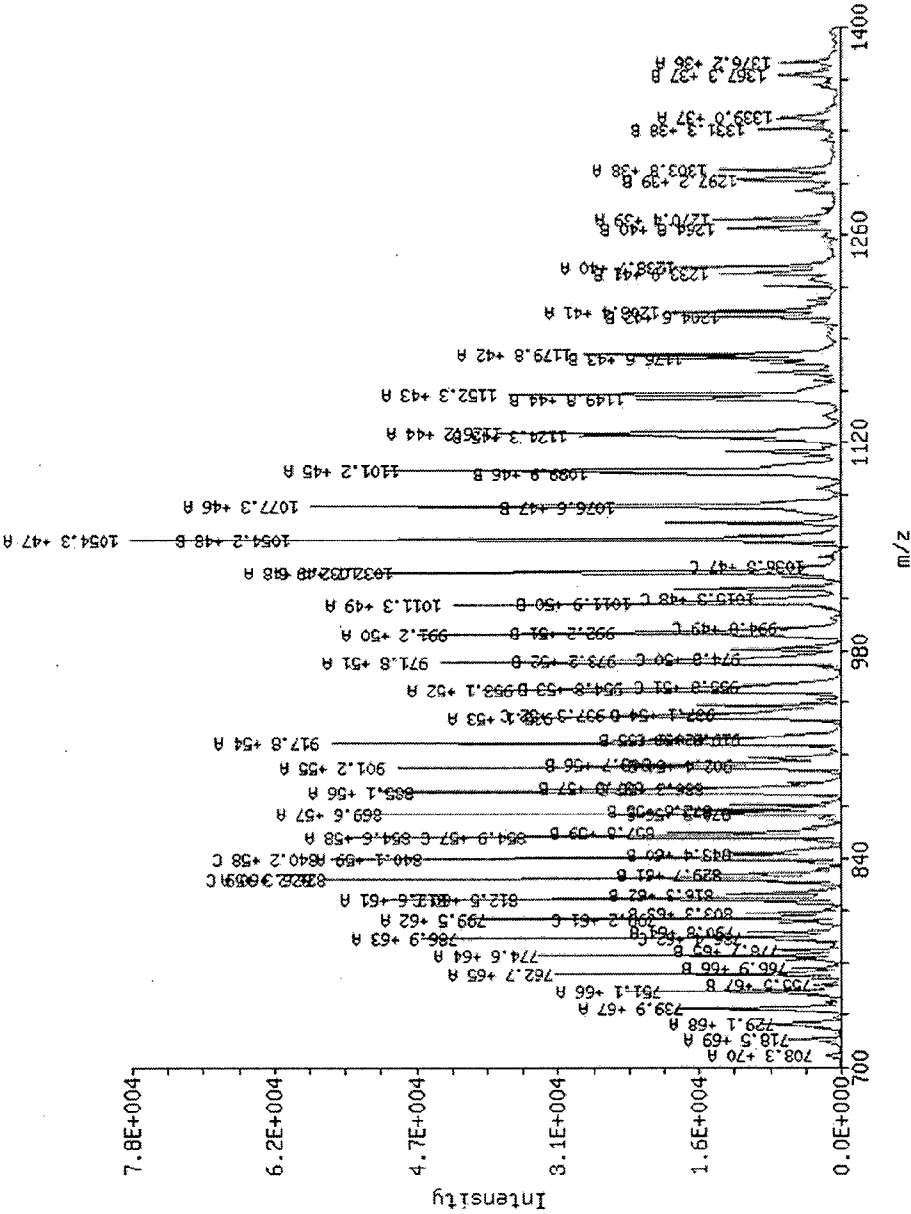
3_Her_30.0643_reduziert_LC



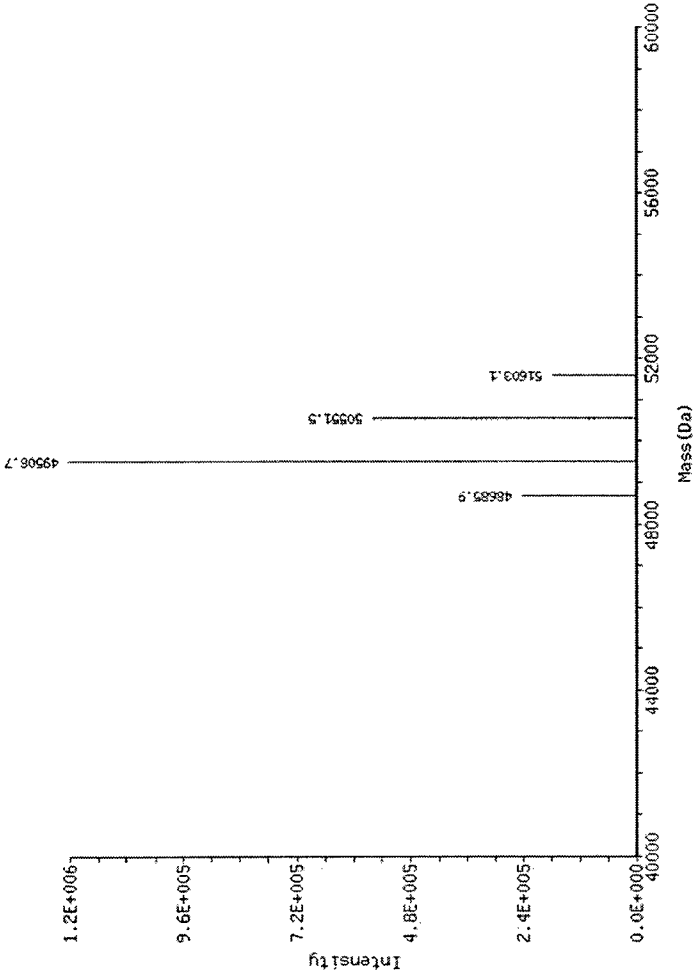
Mass (Da)	Intensity	Score	Delta Mass	%Relative	%Total
24488.5	2.35E+006	22.39	0.0	100.00	69.92
23443.9	5.82E+005	19.21	-1044.6	24.72	17.28
24551.7	3.12E+005	9.26	63.2	13.23	9.25
23557.1	1.19E+005	10.78	-931.4	5.07	3.54

3_Her_30.0643_reduziert_HC

Figure 5(C)



3_Her_30.0643_reduziert_HC



Mass (Da)	Intensity	Score	Delta Mass	%Relative	%Total
49508.7	1.20E+006	40.12	0.0	100.00	55.17
50551.5	5.57E+005	24.10	1042.8	46.42	25.61
48685.9	2.41E+005	6.35	-822.8	20.08	11.08
51603.1	1.77E+005	4.03	2094.4	14.75	8.14

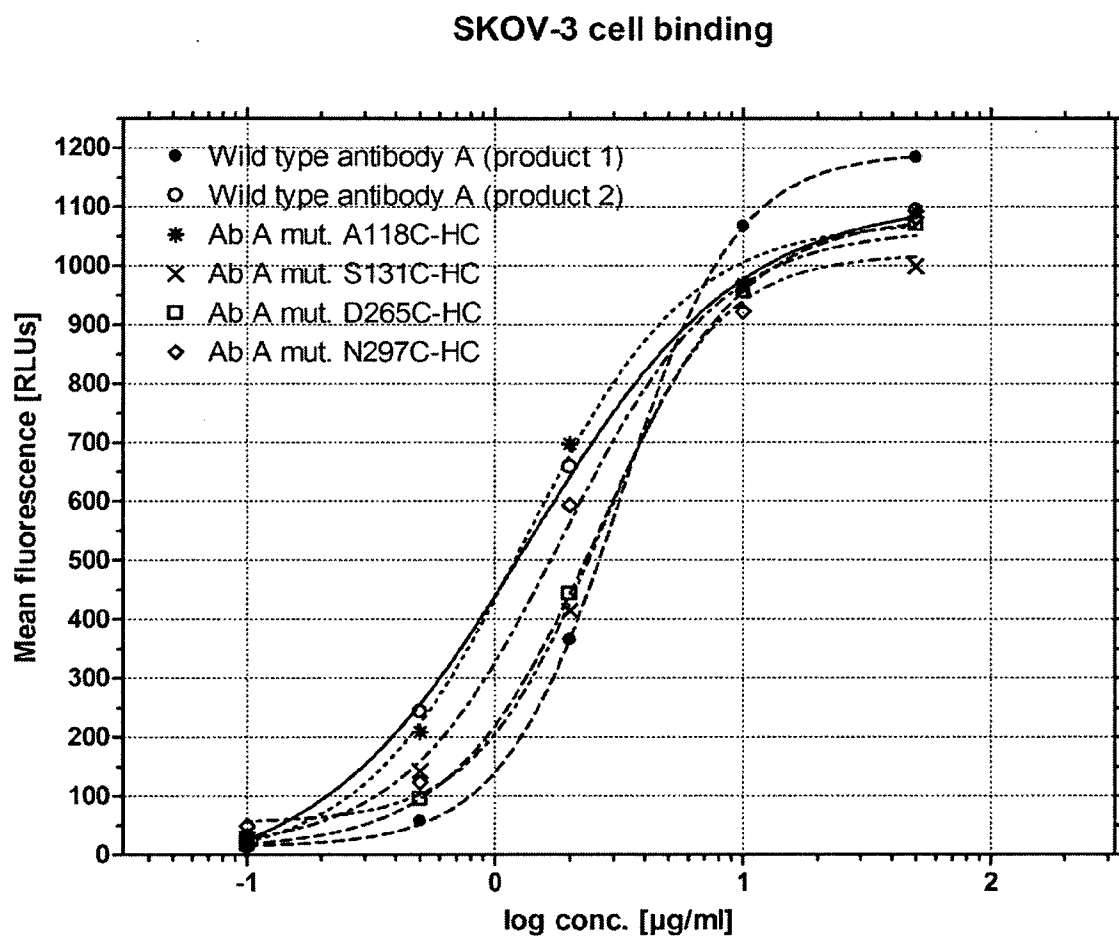
Figure 6

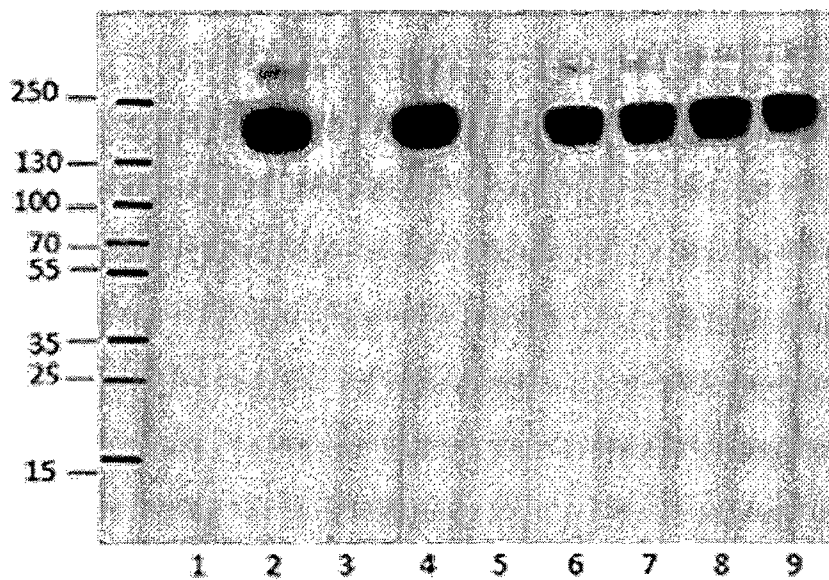
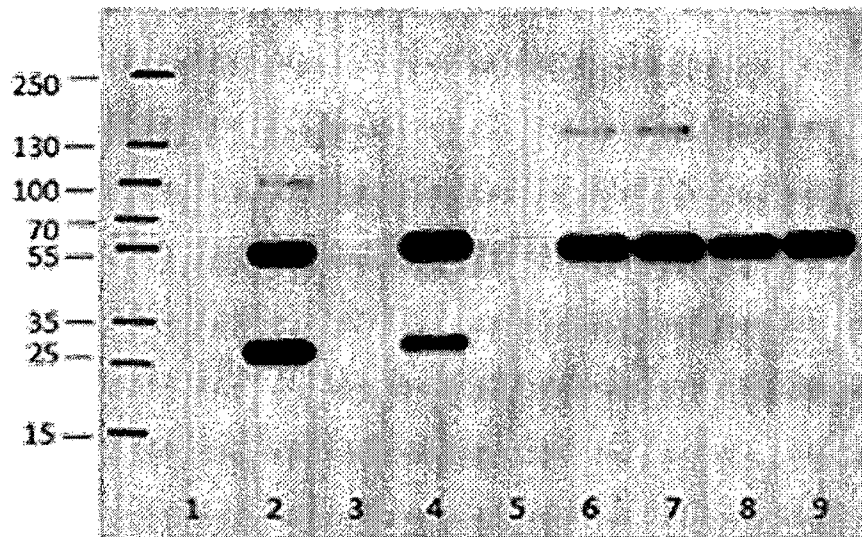
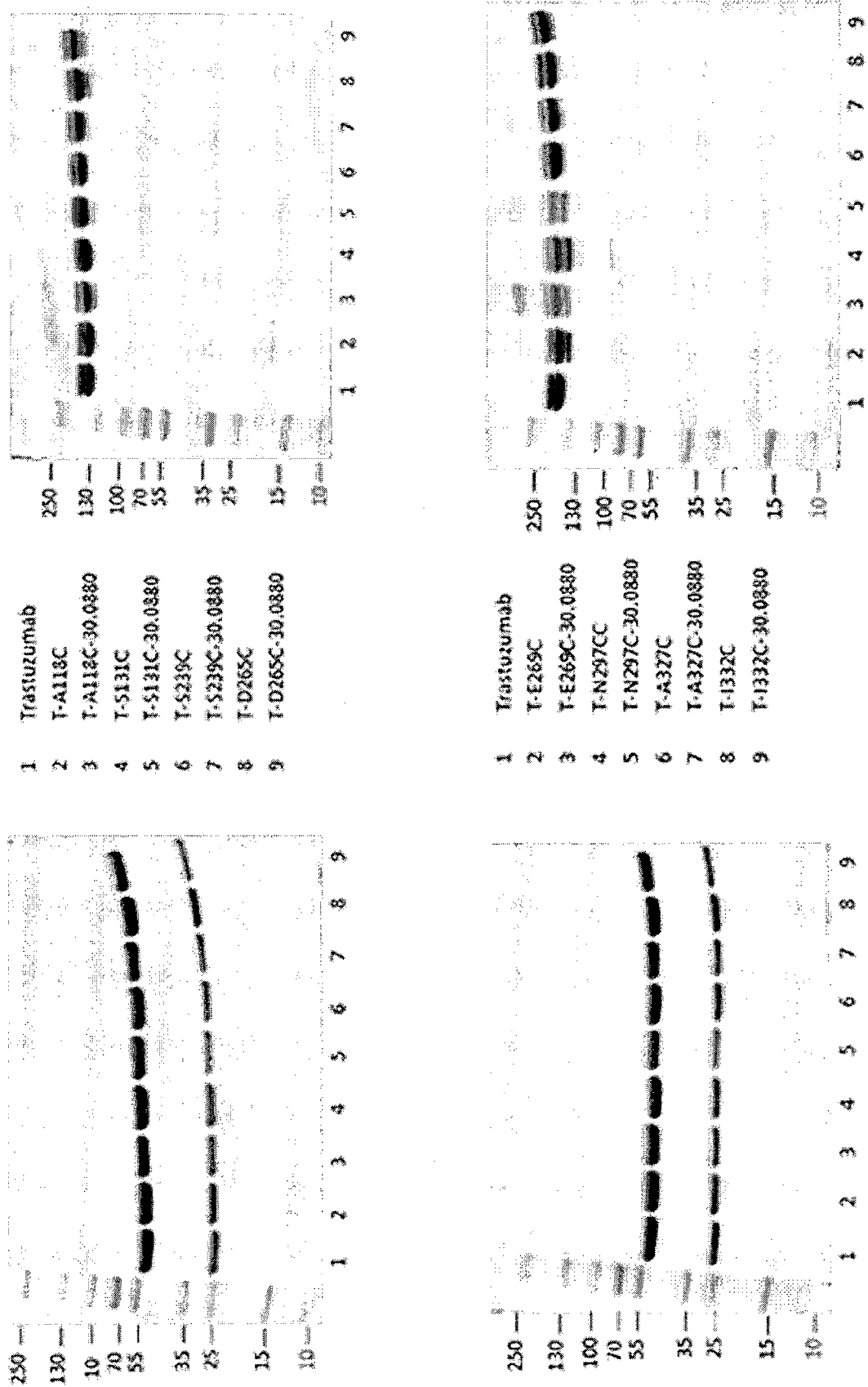
Figure 7(A)

Figure 7(B)



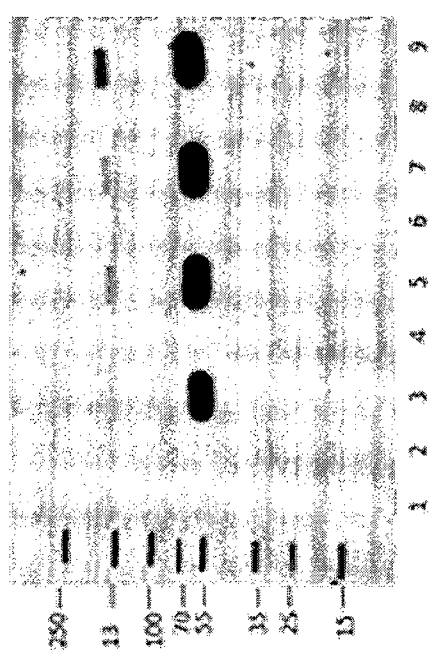
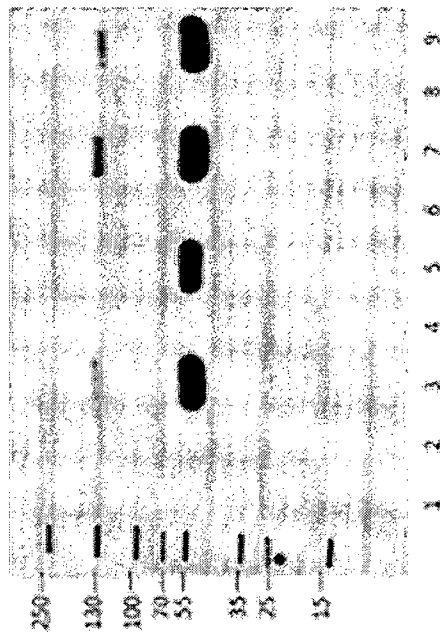
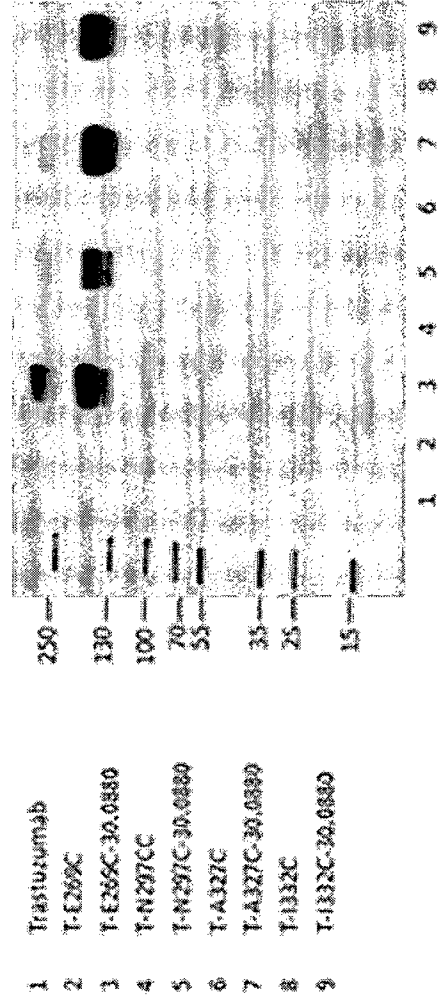
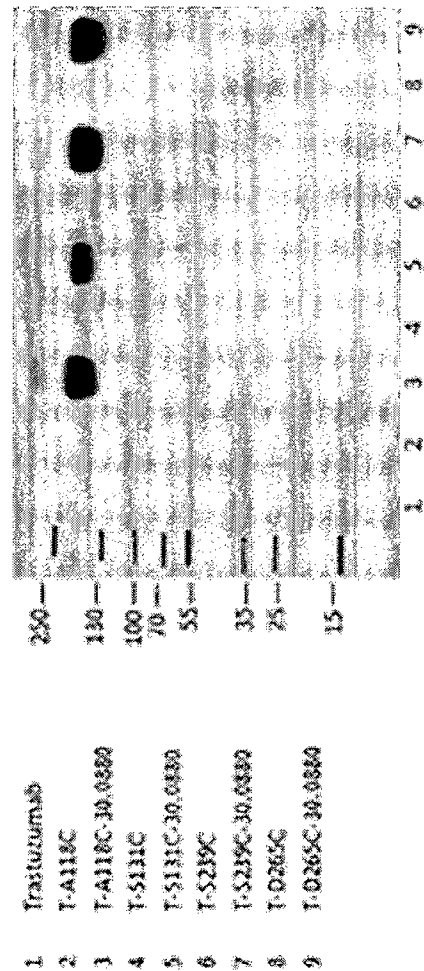
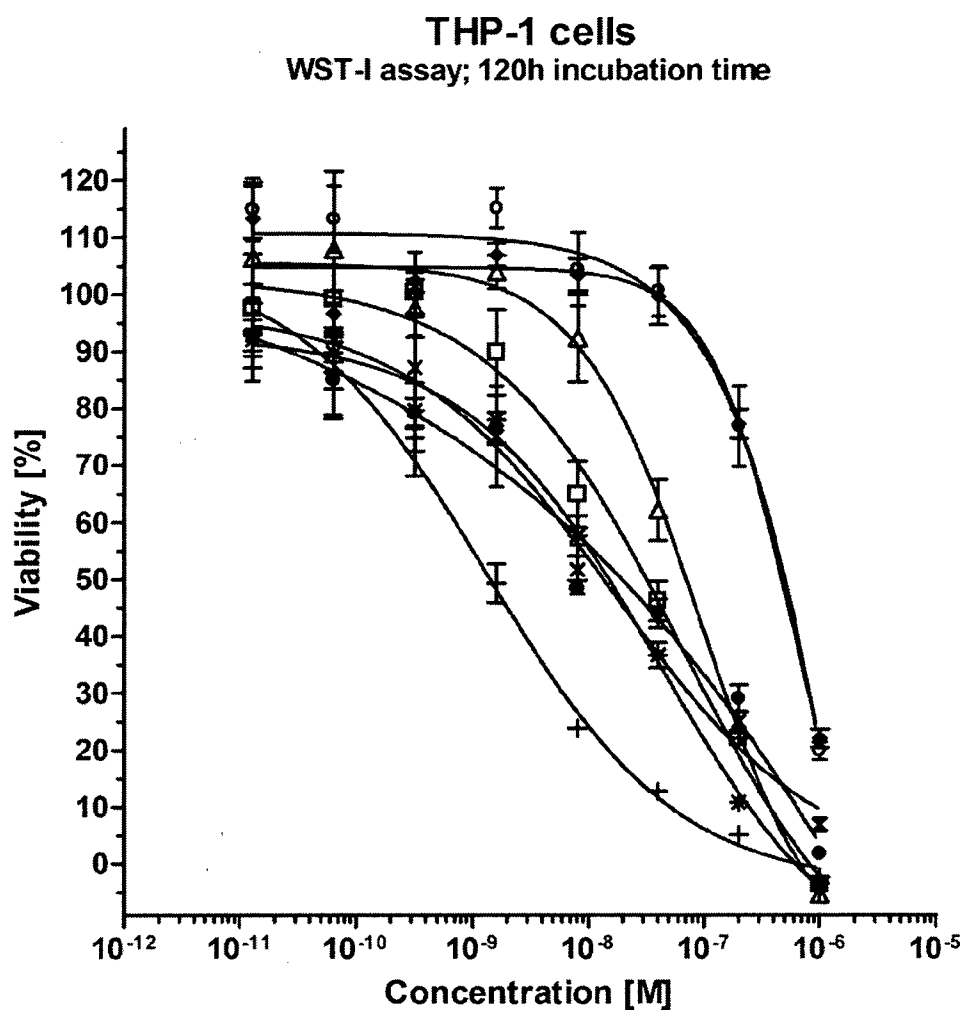


Figure 8(A)

- × antibody A mut. A118C-HC 30.0880
- antibody A mut. S239C-HC 30.0880
- ◆ antibody A mut. D265C-HC 30.0880
- Δ antibody A mut. E269C-HC 30.0880
- antibody A mut. N297C-HC 30.0880
- * antibody A mut. A327C-HC 30.0880
- antibody A mut. I332C-HC 30.0880
- + antibody A 30.0643

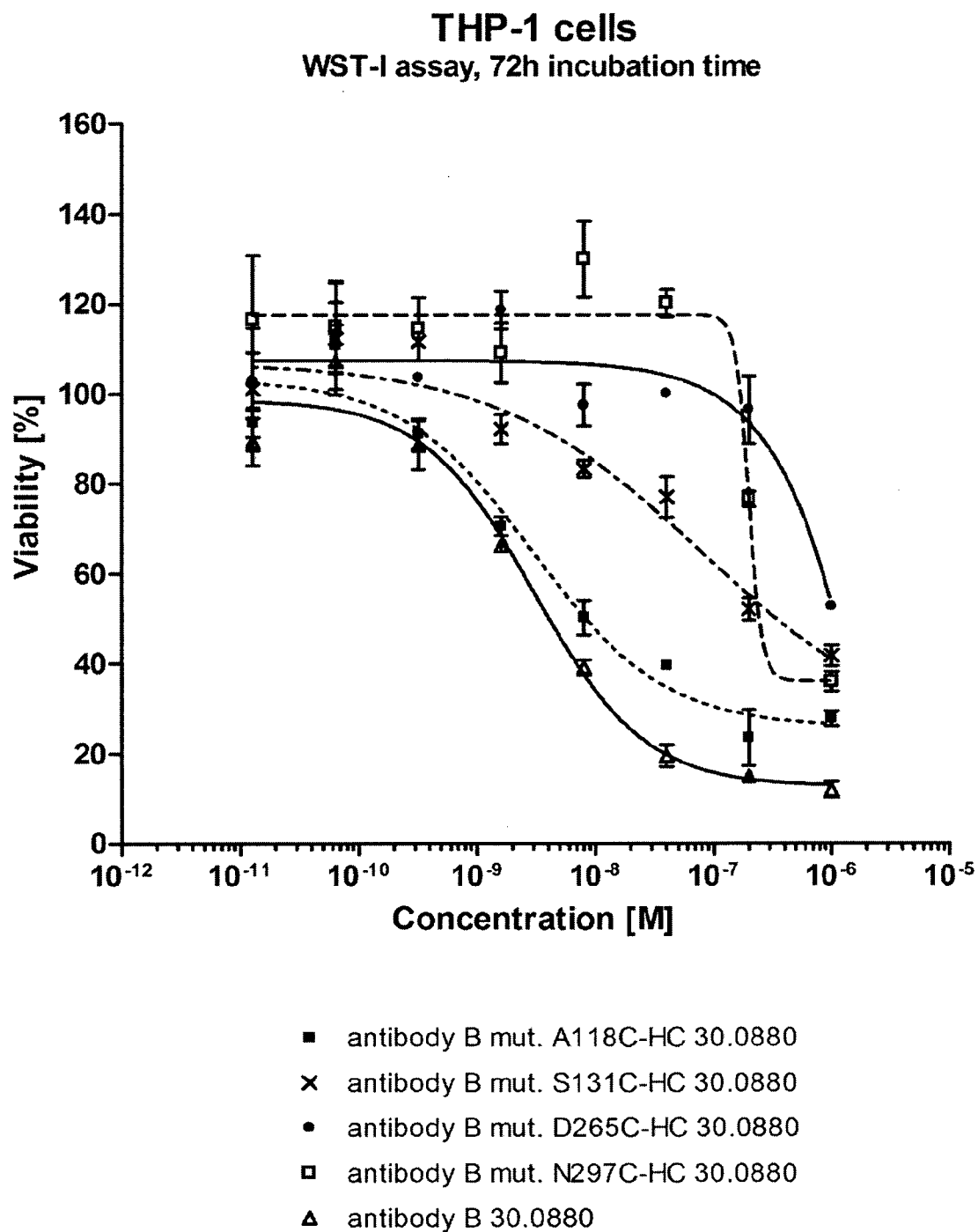
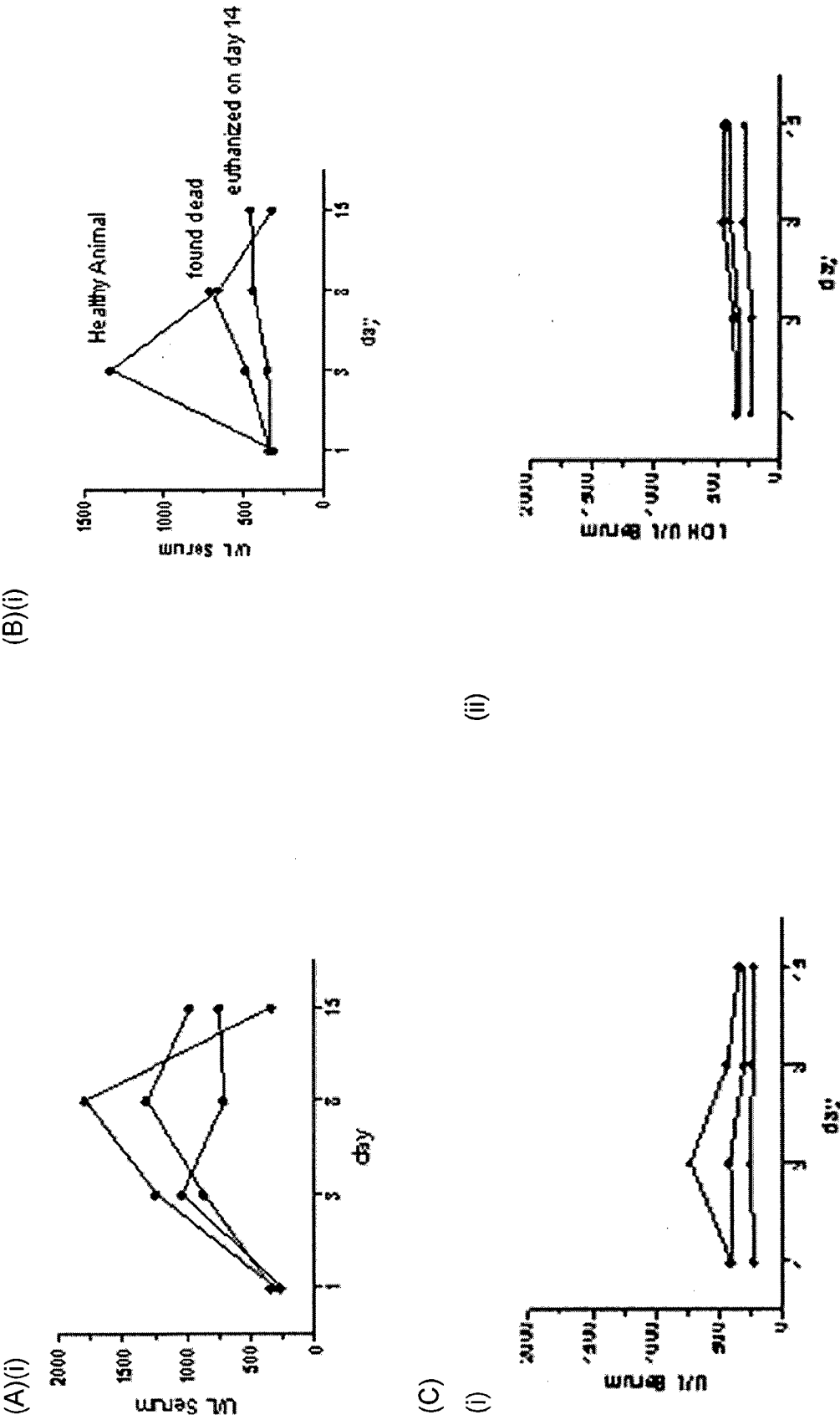
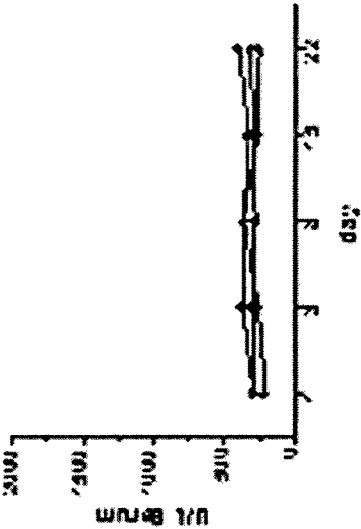
Figure 8(B)

Figure 9

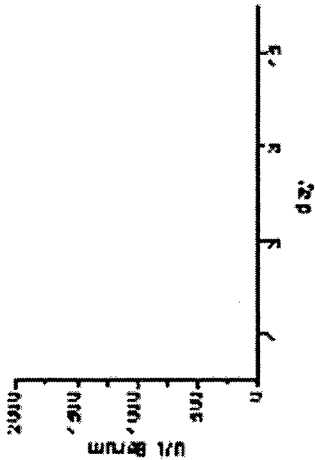
TDC	15 mg/kg	25 mg/kg	37.5 mg/kg
Ab B HC-A118C	✓	✓	✓
Ab B HC-S131C	nd*	nd*	nd*
Ab B HC-S239C	✓	✓	nd****
Ab B HC-D265C	✓	✓	nd***
Ab B HC-E269C	✓	✓	X _(2/3)
Ab B HC-N297C	✓ _{BWL}	X _(3/3)	nd**
Ab B HC-A327C	✓	✓	X _(3/3)
Ab B HC-I332C	✓ _{BWL}	X _(3/3)	nd**

Figure 10

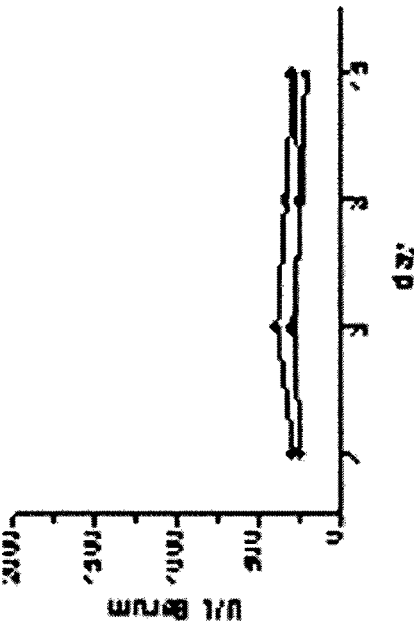




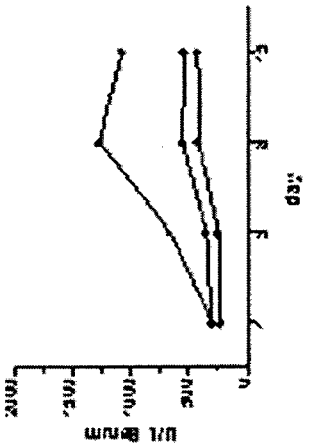
(ii)



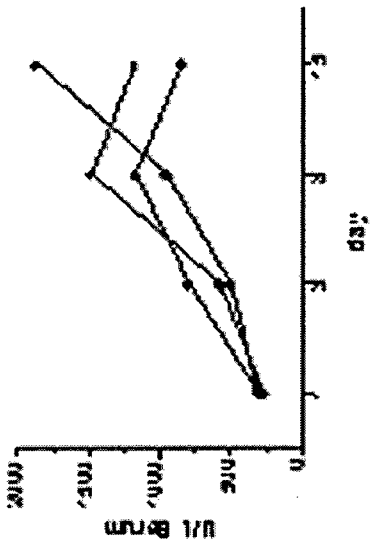
(iv)



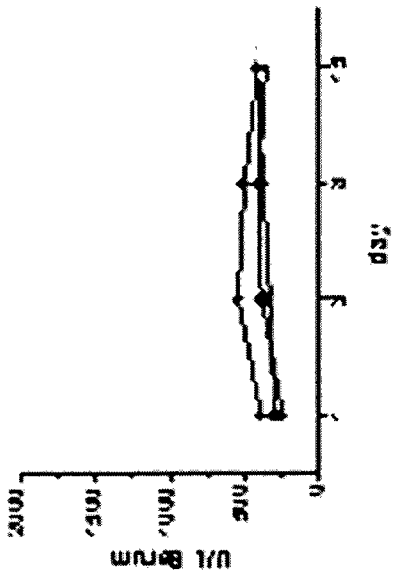
(i)



(iii)



(iv)



(iii)

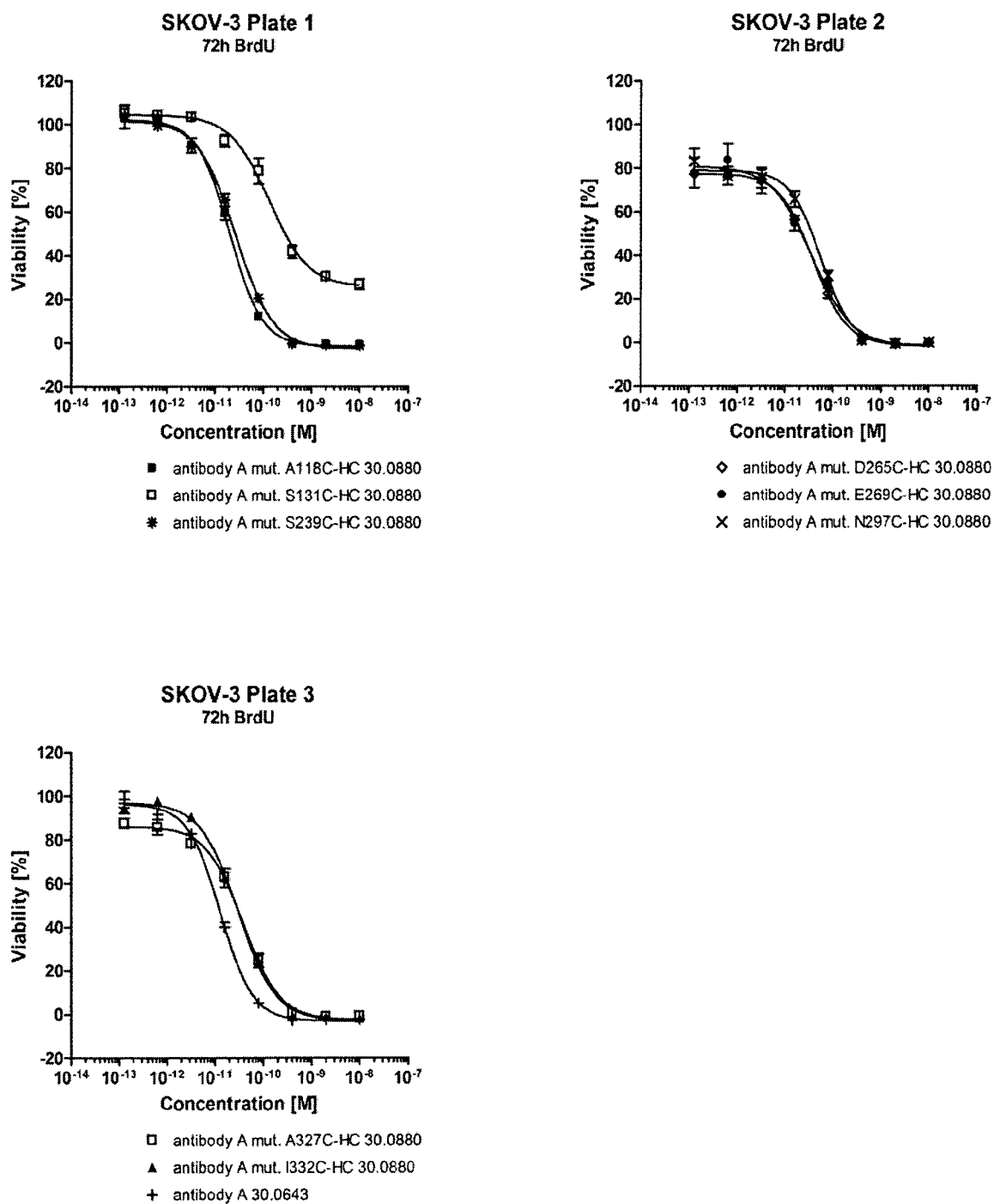
Figure 11

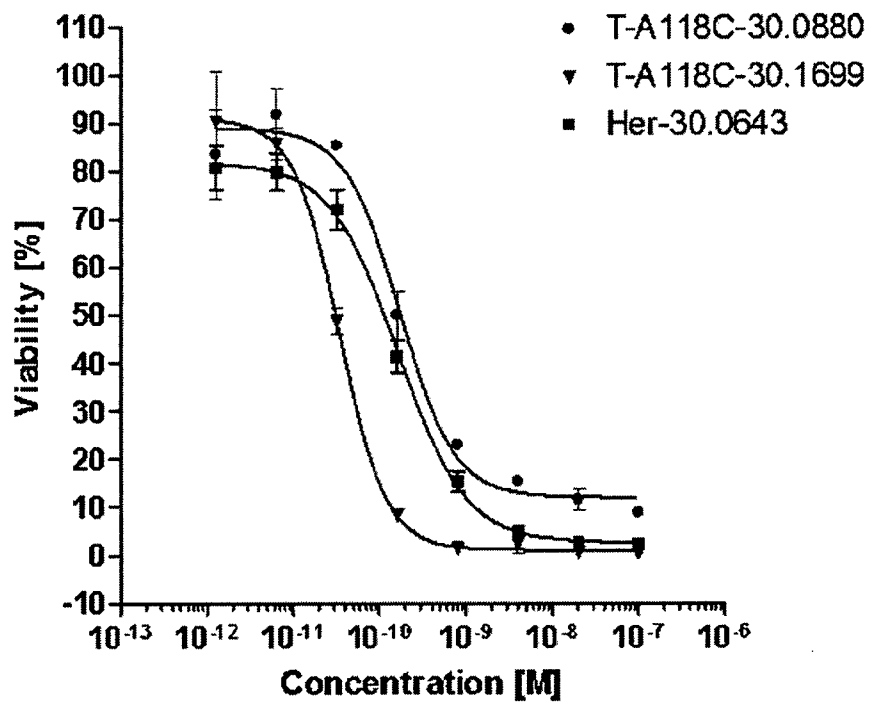
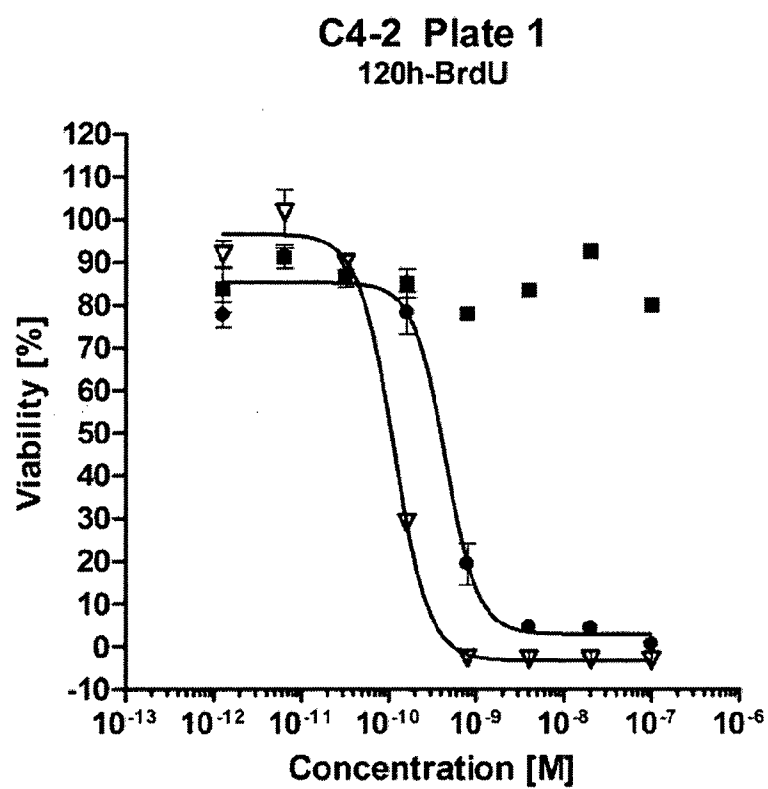
Figure 12

Figure 13

- antibody B mut. A118C-HC 30.0880
- antibody B mut. S131C-HC 30.0880
- ▼ antibody B mut. D265C-HC 30.0880

Figure 14