

MSⁿ Spectra of Oxysterols from Foetal Mouse Brain

Identified Structure after Treatment with Cholesterol Oxidase	[M] ⁺ of GP ^a m/z	Ctx ^a		Sc ^a		Inferred Structure prior to Treatment with Cholesterol Oxidase	Inferred Compound Trivial Name	Figure	
		μg/g	Rt/min	μg/g	Rt/min			MS ²	MS ³
C-4,24-diene-3-one	516.3948	NM	10.53	NM	10.52	C-5,24-diene-3β-ol	Desmosterol	S4a	S4b
C-4,7(or8)-diene-3-one	516.3948	NM	11.00	ND		C-5,7(or 8)-diene-3β-ol	7(or 8)-Dehydrocholesterol ^b	S4c	S4d
C-4-ene-3-one	518.4105	NM	11.43	NM	11.43	C-5-ene-3β-ol	Cholesterol	S4e	S4f
24-Me-C-4-ene-3-one	532.4261	NM	12.13	NM	12.09	24-Me-C-5-ene-3β-ol	Campesterol ^c	S4g	S4h
24-Et-C-4-ene-3-one	546.4418	NM	12.84	NM	12.76	24-Et-C-5-ene-3β-ol	Sitosterol ^{c,d}	--	--
C-X,Y,Z-triene-x-ol-y-one	530.3741	0.008	9.1	ND		C-X,Y,Z-triene-3β,x-diol ^e	Unknown ^e	--	--
C-4-ene-24S,25-epoxide-3-one	532.3898	0.043	6.63/6.86	0.022	6.66/6.85	C-5-ene-3β-ol-24S,25-epoxide	24S,25-Epoxycholesterol	S4i	S4j
C-4-ene-24-ol,25-OMe-3-one ^f	564.416	0.122	6.05/6.42	0.069	6.06/6.43	C-5-ene-3β-ol-24S,25-epoxide	24S,25-Epoxycholesterol	S4k	S4L
		0.165		0.091		C-5-ene-3β-ol-24S,25-epoxide	24S,25-Epoxycholesterol		
C-4-ene-3,24-dione	532.3898	0.093	7.35	0.013	7.38	C-5-ene-3β-ol-24-one	24-Oxocholesterol	S4m	S4n
C-4-ene-3,6-dione	532.3898	0.185	9.76	0.019	9.94	C-4-ene-3,6-dione ^g	6-Oxocholestenone ^g	S4o	S4p
C-4-ene-22R-ol-3-one	534.4054	0.004	6.14	0.002	6.17	C-5-ene-3β,22R-diol	22R-Hydroxycholesterol	S4q	S4r
C-4-ene-24S-ol-3-one	534.4054	0.026	7.17/7.55	0.013	7.16/7.56	C-5-ene-3β,24S-diol	24S-Hydroxycholesterol	S4s	S4t
C-4-ene-25-ol-3-one	534.4054	0.016	7.39	0.012	7.39	C-5-ene-3β,25-diol	25-Hydroxycholesterol	S4u	S4v
C-4-ene-27-ol-3-one	534.4054	0.011	8.45/8.83	0.006	8.45/8.85	C-5-ene-3β,27-diol	27-Hydroxycholesterol	S4w	S4x
C-4-ene-7β-ol-3-one	534.4054	0.052	9.08/9.48	0.053	9.11/9.5	C-5-ene-3β,7β-diol	7β-Hydroxycholesterol	S4y	S4z
C-4-ene-7α-ol-3-one	534.4054	0.055	9.61	0.067	9.59	C-5-ene-3β,7α-diol	7α-Hydroxycholesterol ^h	S4aa	S4ab
C-7-ene-x-ol-3-one	534.4054	0.152	9.27/9.78	0.103	9.26/9.76	C-7-ene-3β,x-diol	Hydroxylathosterol	S4ac	S4ad
C-4-ene-6β-ol-3-one	534.4054	0.568	9.89	0.109	9.89	C-4-ene-6β-ol-3-one/C-3β,5α,6β-triol/C-3β-ol-5,6-epoxide ⁱ	6β-hydroxycholest-4-en-3-one/cholestane-3β,5α,6β-triol/5,6-epoxycholesterol ⁱ	S4ae	S4af

C-X,Y,Z-triene-x,y-diol-z-one	546.369	0.009	8.34	ND		C-X,Y,Z-triene-3 β ,x,y-triol ^l	Unknown ^j		
C-X,Y,Z-triene-x,y-diol-z-one	546.369	0.009	8.7	0.002	8.71	C-X,Y,Z-triene-3b,x,y-triol ^l	Unknown ^j		
C-X,Y,Z-triene-x,y-diol-z-one	546.369	0.026	9.29	ND		C-X,Y,Z-triene-3 β ,x,y-triol ^l	Unknown ^j		
C-X,Y-diene-x,y-diol-z-one	548.3847	0.004	5.45	ND		C-X,Y-diene-3 β ,x,y-triol ^k	Unknown ^k		
C-X,Y-diene-x,y-diol-z-one	548.3847	ND		0.001	7.31	C-X,Y-diene-3 β ,x,y-triol ^k	Unknown ^k		
C-X,Y-diene-x,y-diol-z-one	548.3847	0.028	9.78	0.007	9.76	C-X,Y-diene-3 β ,x,y-triol ^k	Unknown ^k	S4ag	S4ah
C-X,Y-diene-x,y-diol-z-one	548.3847	0.009	10.05	0.002	10.07	C-X,Y-diene-3 β ,x,y-triol ^k	Unknown ^k	S4ai	S4aj
C-4-ene-24,25-diol-3-one	550.4003	0.070	4.42/4.95	0.038	4.42/4.98	C-5-ene-3 β ,24,25-triol	24,25-Dihydroxycholesterol	S4ak	S4aL
C-4-ene-24,27-diol-3-one	550.4003	0.007	4.83	0.006	4.85	C-5-ene-3 β ,24,27-triol	24,27-Dihydroxycholesterol	S4am	S4an
C-x-ol-y,z-dione	550.4003	0.017	9.08	0.041	9.11	C-3 β ,x-diol-y-one ^L	Unknown ^L	S4ao	S4ap
C-x,y-diol-z-one	552.4160	0.002	5.67	0.001	5.68	C-3 β ,x,y-triol	Unknown		
C-x,y-diol-z-one	552.4160	0.018	9.44/9.89	0.002	9.47	C-3 β ,x,y-triol	Unknown	S4aq	S4ar
aldol	552.4160	0.066	9.59	0.075	9.59	aldol ^m	aldol ^m	S4as	

C = cholestane; NM = not measured; Rt = retention time; ND = not detected; No reference = no authentic standard available

^a Data for GP derivatives

^b 7- and 8-dehydrocholesterol are not resolved

^c Possibly a contaminant

^d Identification based on exact mass and isotopic pattern only

^e Alternatively C-X,Y-dien-3 β -ol-x-one

^f Alternatively C-4-ene-25-ol,24-OMe-3-one, methanolysis product of C-4-ene-24S,25-epoxide-3-one

^g C-4-ene-3,6-dione reacts with GP reagent without oxidation by cholesterol oxidase

^h Formed enzymatically by CYP7A1 and/or by autoxidation

ⁱ C-4-ene-6 β -ol-3-one can be formed from C-3 β ,5 α ,6 β -triol and C-3 β -ol-5,6-epoxides during the cholesterol oxidase/GP derivatisation reaction

^j Alternatively C-X,Y-diene-3 β ,x-diol-y-one

^k Alternatively C-X-ene-3 β ,x-diol-y-one

^l Alternatively C-X-ene-3 β ,x,y-triol

^m 3 β ,5 β -dihydroxy-B-norcholestane-6 β -carboxyaldehyde (aldol) reacts with GP reagent without oxidation by cholesterol oxidase

MS² and MS³ Spectra of Oxysterols

- Upper panels display spectra of oxidised/derivatised oxysterols isolated from foetal mouse brain cortex
- Lower panels display spectra of authentic standards

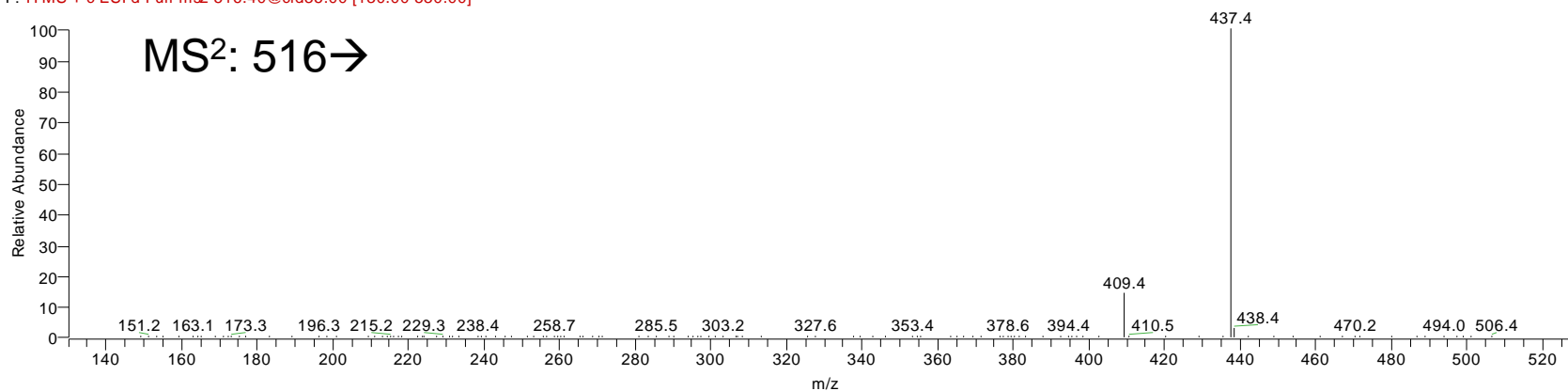
Fig. S4a

C^{4,24}-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1310 RT: 10.57 AV: 1 NL: 3.04E5
F: ITMS + c ESI d Full ms2 516.40@cid35.00 [130.00-530.00]



2 #1287 RT: 10.76 AV: 1 NL: 3.95E5
F: ITMS + c ESI d Full ms2 516.40@cid35.00 [130.00-530.00]

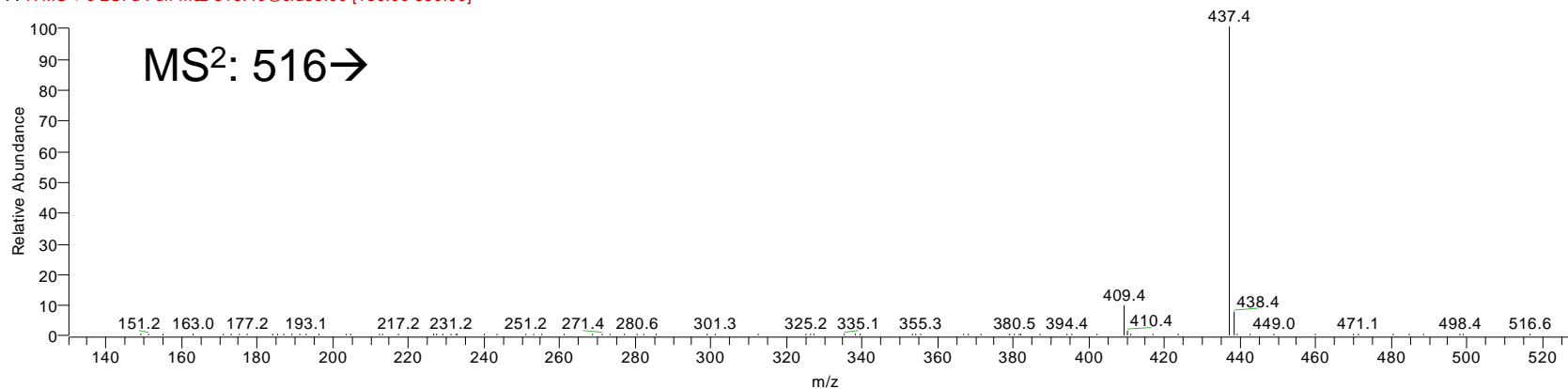


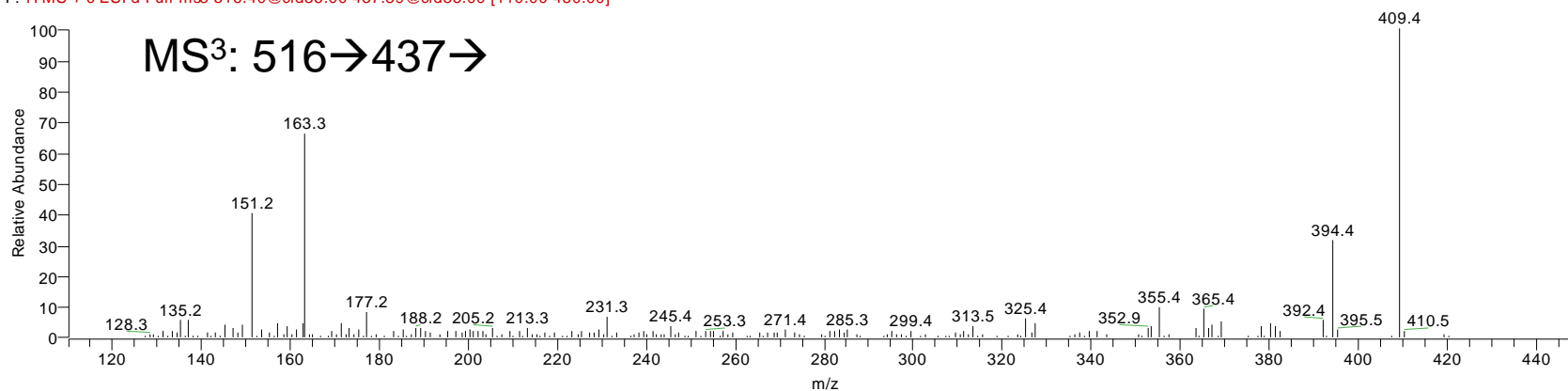
Fig. S4b

C^{4,24}-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1311 RT: 10.57 AV: 1 NL: 1.75E4
F: ITMS + c ESI d Full ms3 516.40@cid35.00 437.39@cid35.00 [110.00-450.00]



2 #1288 RT: 10.77 AV: 1 NL: 2.64E4
F: ITMS + c ESI d Full ms3 516.40@cid35.00 437.34@cid35.00 [110.00-450.00]

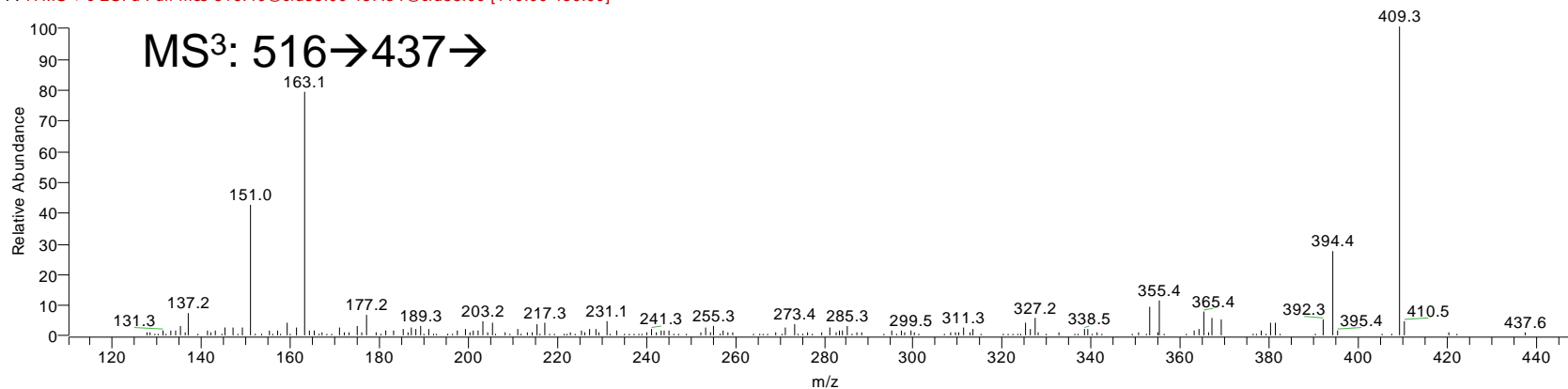


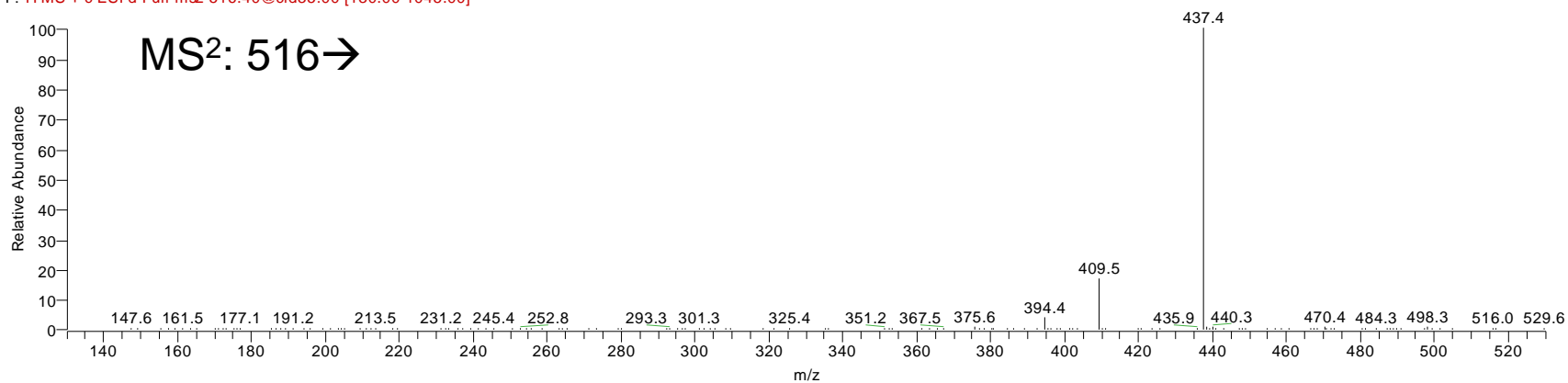
Fig. S4c

C_{4,7}or₈-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1375 RT: 11.03 AV: 1 NL: 4.33E3
F: ITMS + c ESI d Full ms2 516.40@cid35.00 [130.00-1045.00]



3 #1346 RT: 11.23 AV: 1 NL: 1.32E5
F: ITMS + c ESI d Full ms2 516.40@cid35.00 [130.00-530.00]

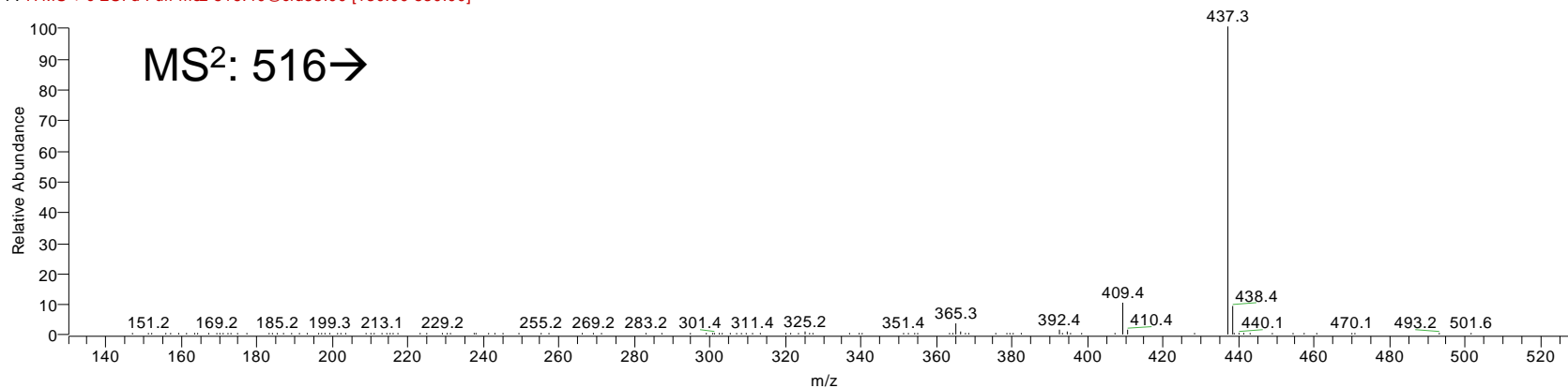


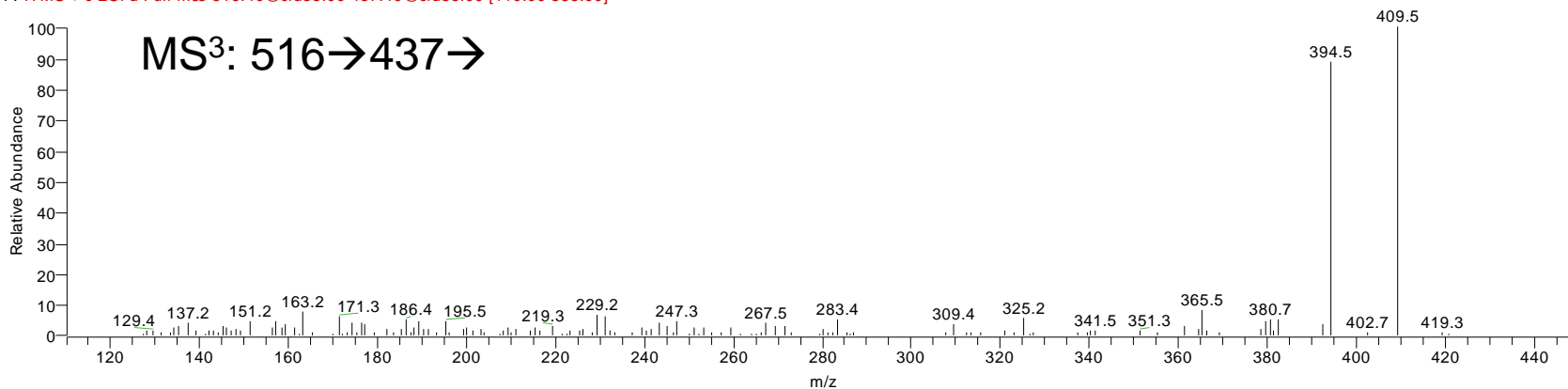
Fig. S4d

C_{4,7}or₈-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1376 RT: 11.04 AV: 1 NL: 2.66E2
F: ITMS + c ESI d Full ms3 516.40@cid35.00 437.40@cid35.00 [110.00-885.00]



3 #1347 RT: 11.23 AV: 1 NL: 9.79E3
F: ITMS + c ESI d Full ms3 516.40@cid35.00 437.33@cid35.00 [110.00-450.00]

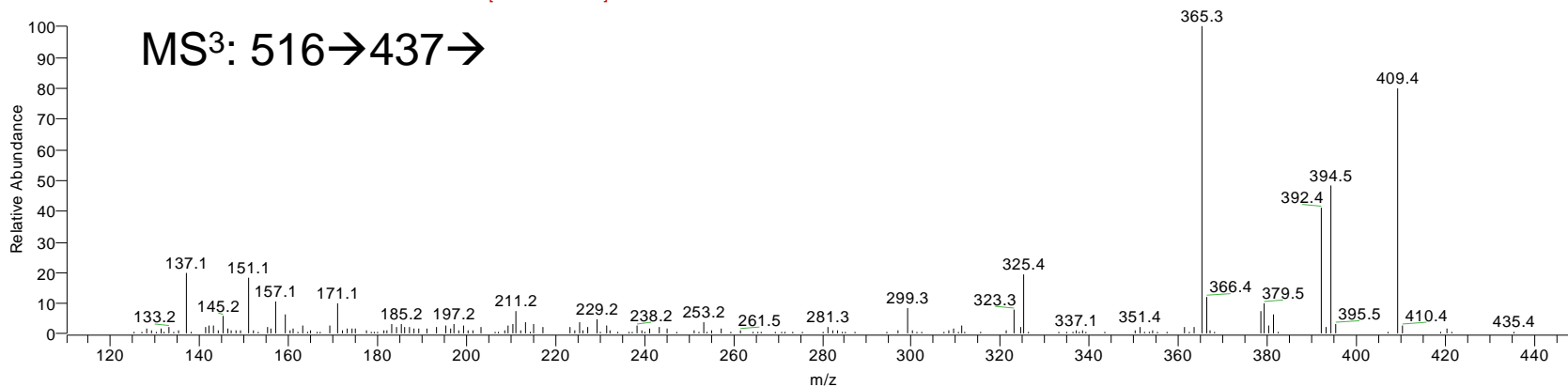


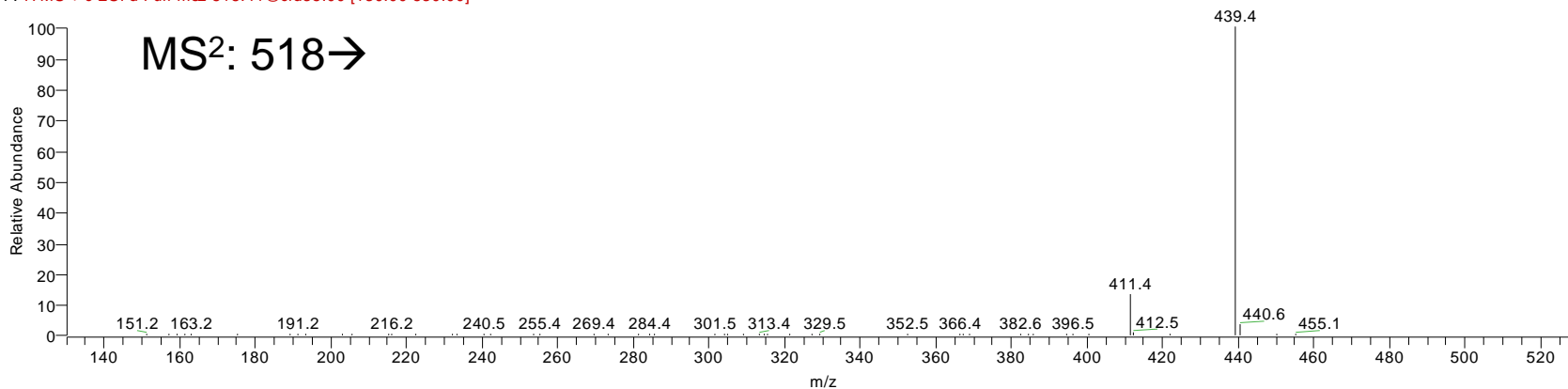
Fig. S4e

C⁴-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1433 RT: 11.44 AV: 1 NL: 2.93E6
F: ITMS + c ESI d Full ms2 518.41@cid35.00 [130.00-530.00]



1 #1401 RT: 11.65 AV: 1 NL: 1.08E6
F: ITMS + c ESI d Full ms2 518.41@cid35.00 [130.00-530.00]

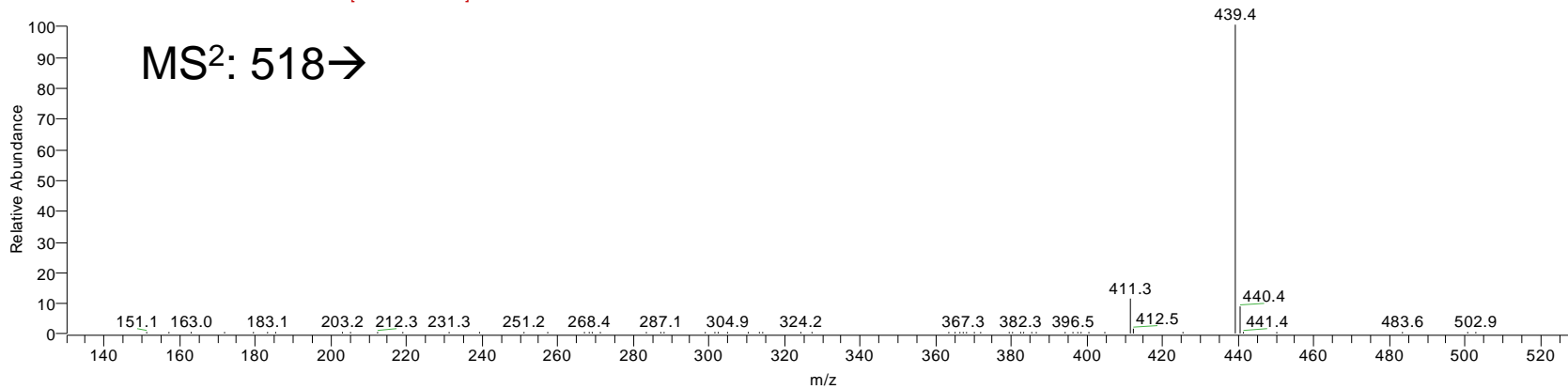


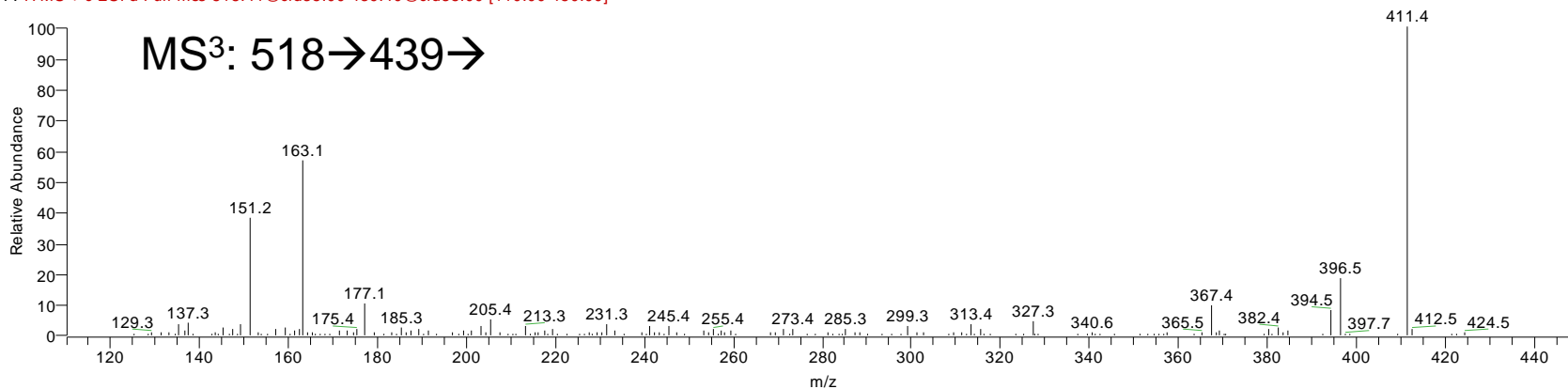
Fig. S4f

C⁴-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1434 RT: 11.44 AV: 1 NL: 2.42E5
F: ITMS + c ESI d Full ms3 518.41@cid35.00 439.40@cid35.00 [110.00-450.00]



1 #1402 RT: 11.66 AV: 1 NL: 7.78E4
F: ITMS + c ESI d Full ms3 518.41@cid35.00 439.34@cid35.00 [110.00-450.00]

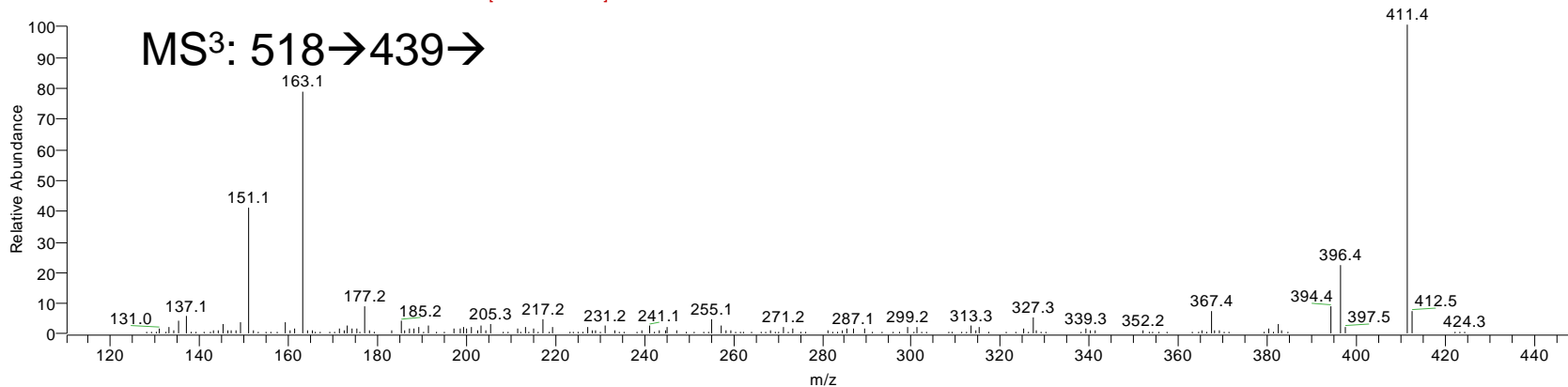


Fig. S4g

24-Me-C⁴-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1525 RT: 12.15 AV: 1 NL: 2.97E4
F: ITMS + c ESI d Full ms2 532.39@cid35.00 [135.00-545.00]

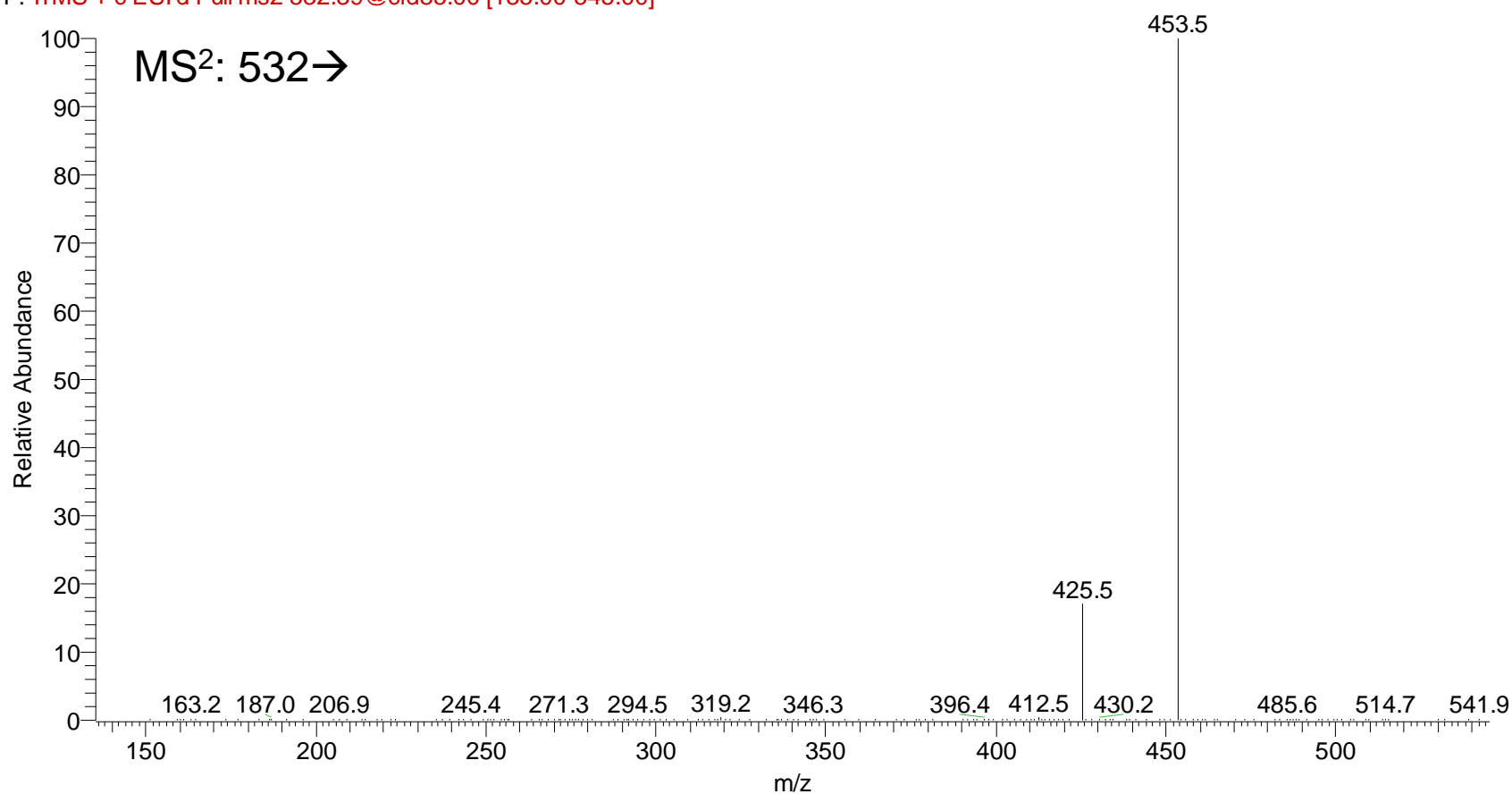


Fig. S4h

24-Me-C⁴-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1526 RT: 12.16 AV: 1 NL: 2.30E3

F: ITMS + c ESI d Full ms3 532.39@cid35.00 453.38@cid35.00 [110.00-465.00]

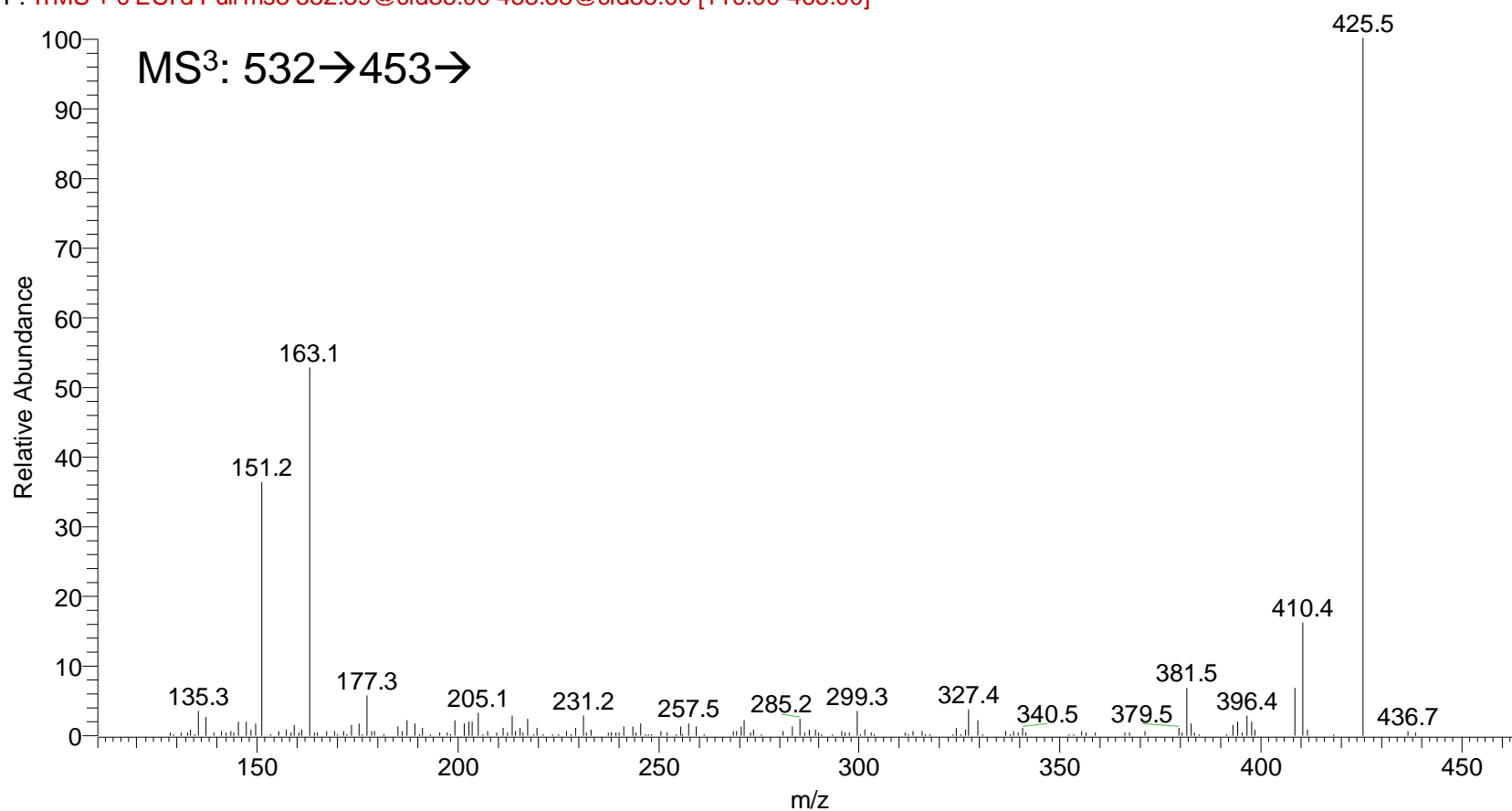


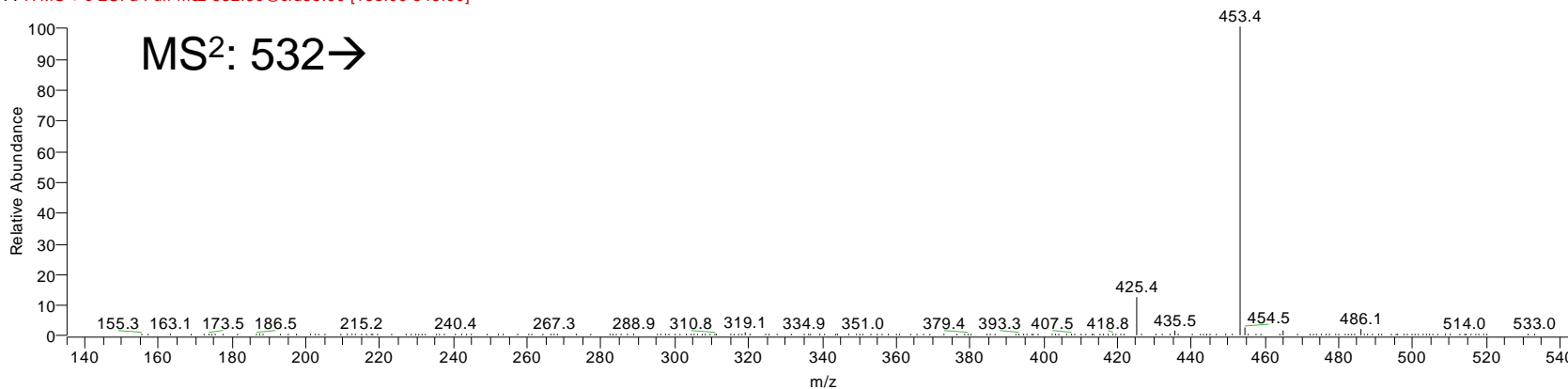
Fig. S4i

C⁴-24S,25-epoxide-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #808 RT: 6.62 AV: 1 NL: 1.90E4
F: ITMS + c ESI d Full ms2 532.39@cid35.00 [135.00-545.00]



sample_39 #717 RT: 7.08 AV: 1 NL: 4.62E3
F: ITMS + c ESI d Full ms2 532.39@cid30.00 [135.00-545.00]

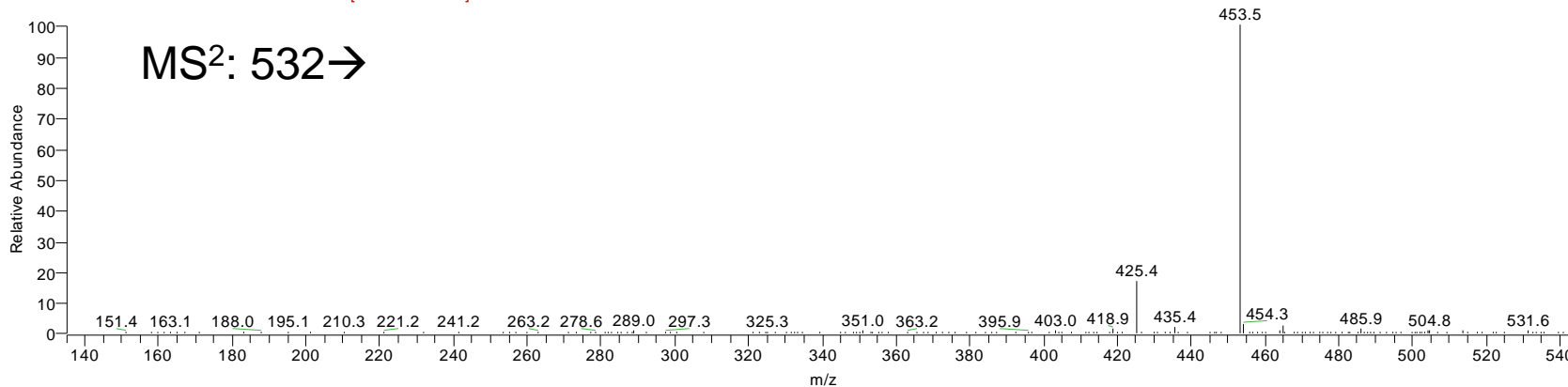


Fig. S4j

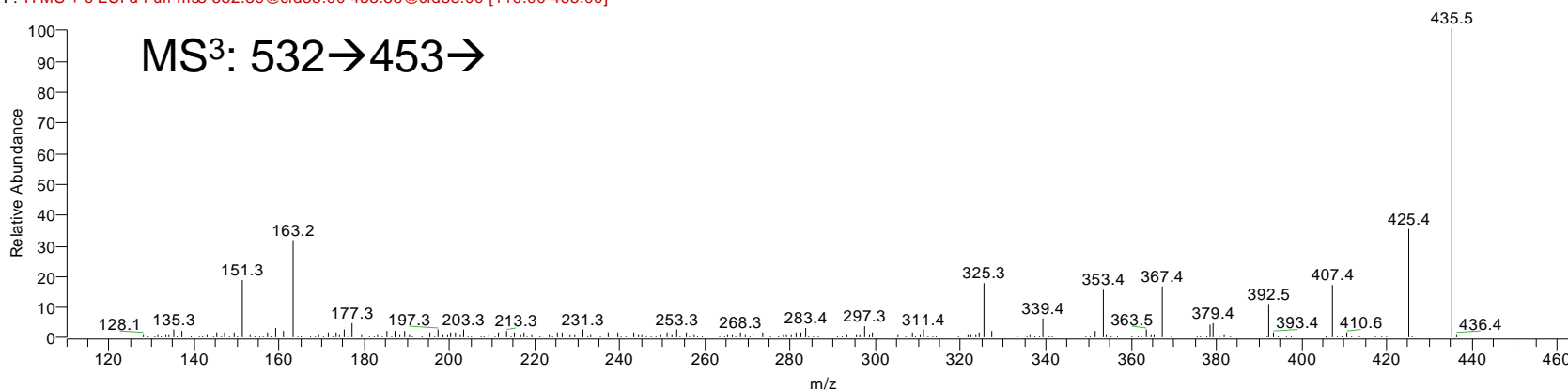
C⁴-24S,25-epoxide-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #809 RT: 6.62 AV: 1 NL: 2.24E3

F: ITMS + c ESI d Full ms3 532.39@cid35.00 453.38@cid35.00 [110.00-465.00]



sample_39 #718 RT: 7.09 AV: 1 NL: 3.31E2

F: ITMS + c ESI d Full ms3 532.39@cid30.00 453.46@cid35.00 [110.00-465.00]

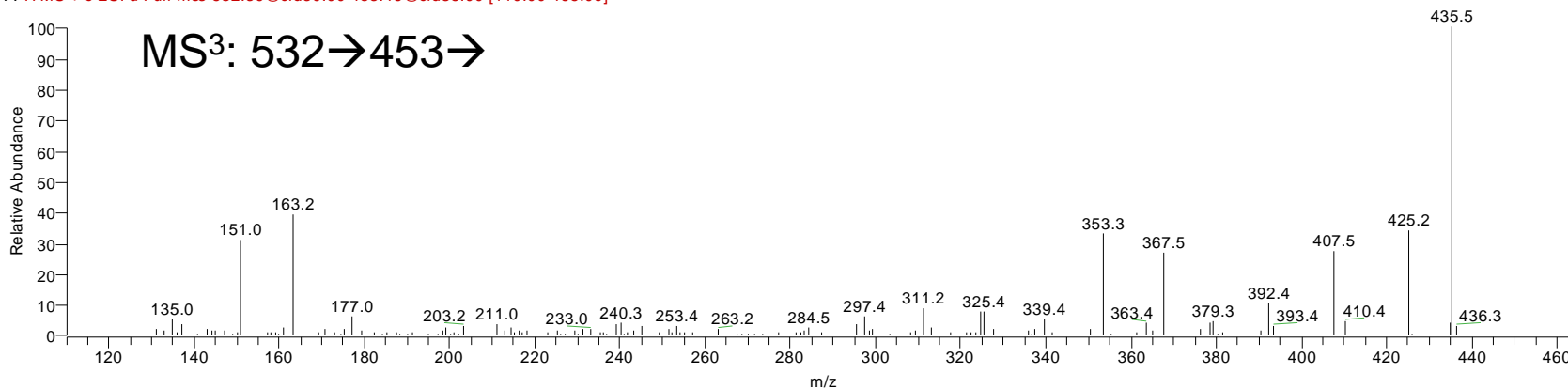


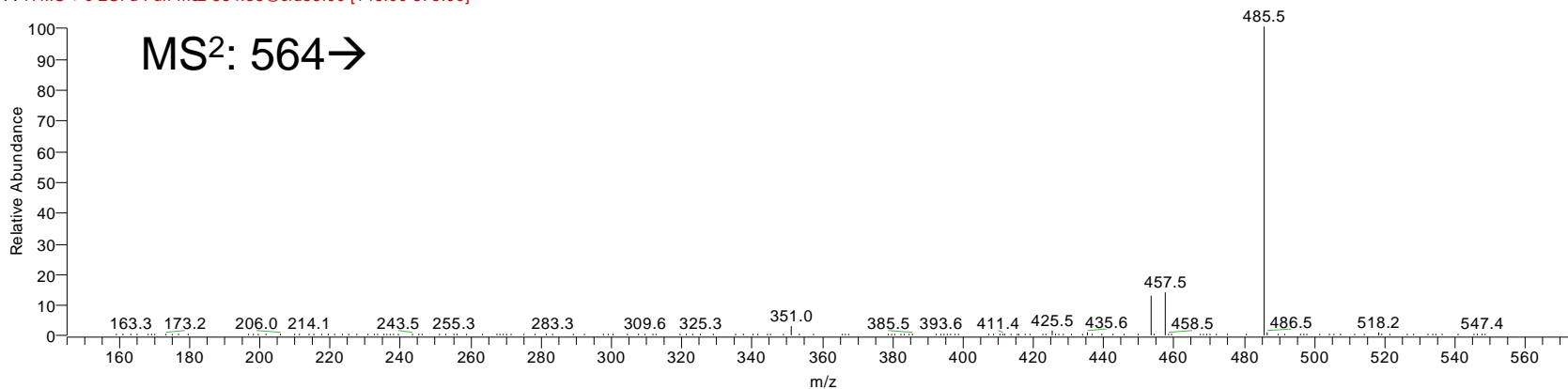
Fig. S4k

C⁴-24-ol,25-OMe-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #740 RT: 6.07 AV: 1 NL: 3.39E4
F: ITMS + c ESI d Full ms2 564.38@cid35.00 [145.00-575.00]



sample_39 #646 RT: 6.43 AV: 1 NL: 9.65E4
F: ITMS + c ESI d Full ms2 564.42@cid30.00 [145.00-575.00]

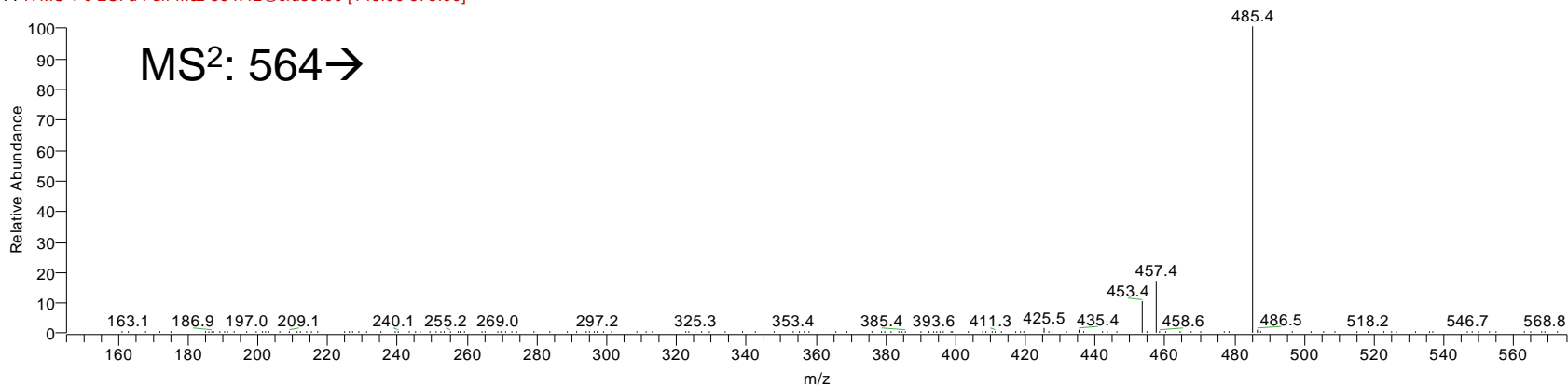


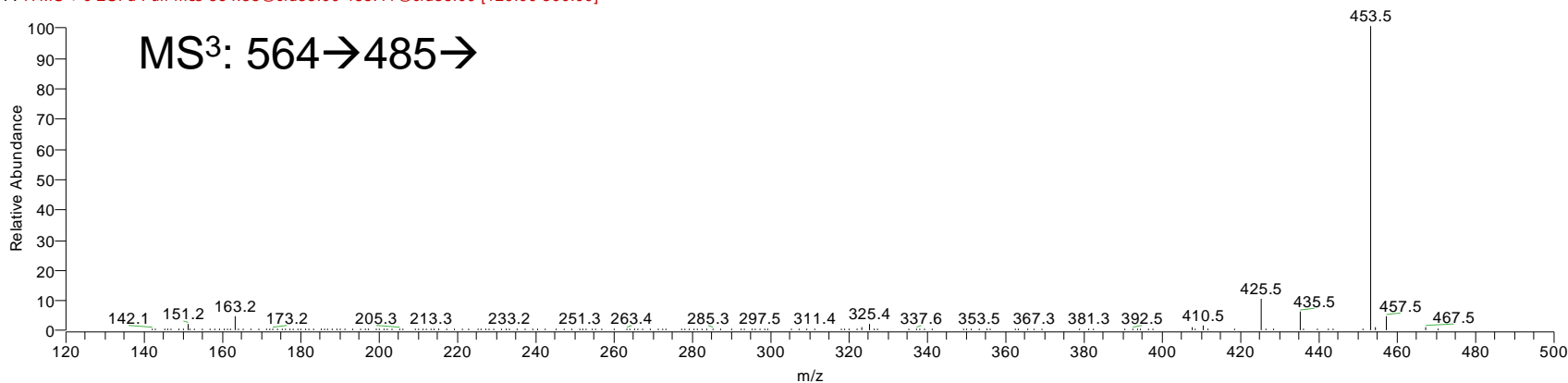
Fig. S4I

C⁴-24-ol,25-OMe-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #741 RT: 6.08 AV: 1 NL: 1.32E4
F: ITMS + c ESI d Full ms3 564.38@cid35.00 485.41@cid35.00 [120.00-500.00]



sample_39 #647 RT: 6.43 AV: 1 NL: 3.71E4
F: ITMS + c ESI d Full ms3 564.42@cid30.00 485.49@cid35.00 [120.00-500.00]

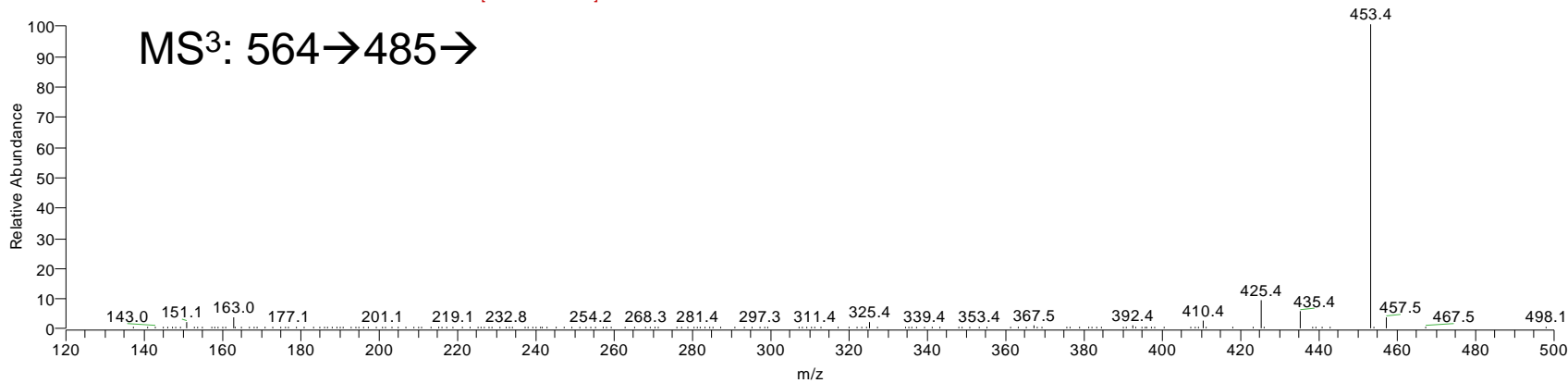


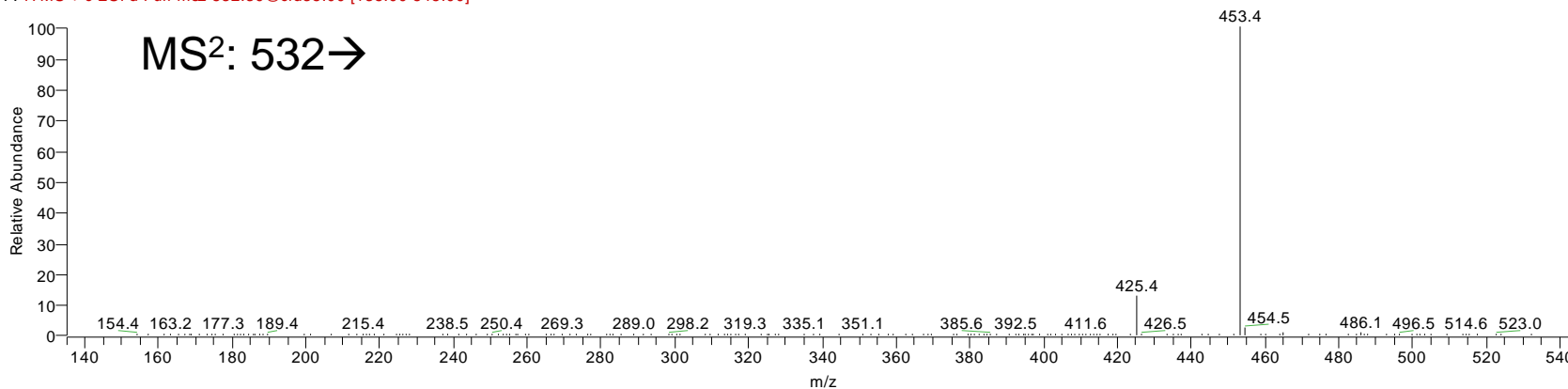
Fig. S4m

C⁴-3,24-dione 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #901 RT: 7.38 AV: 1 NL: 3.53E4
F: ITMS + c ESI d Full ms2 532.39@cid35.00 [135.00-545.00]



23 #890 RT: 7.51 AV: 1 NL: 6.32E5
F: ITMS + c ESI d Full ms2 532.39@cid35.00 [135.00-545.00]

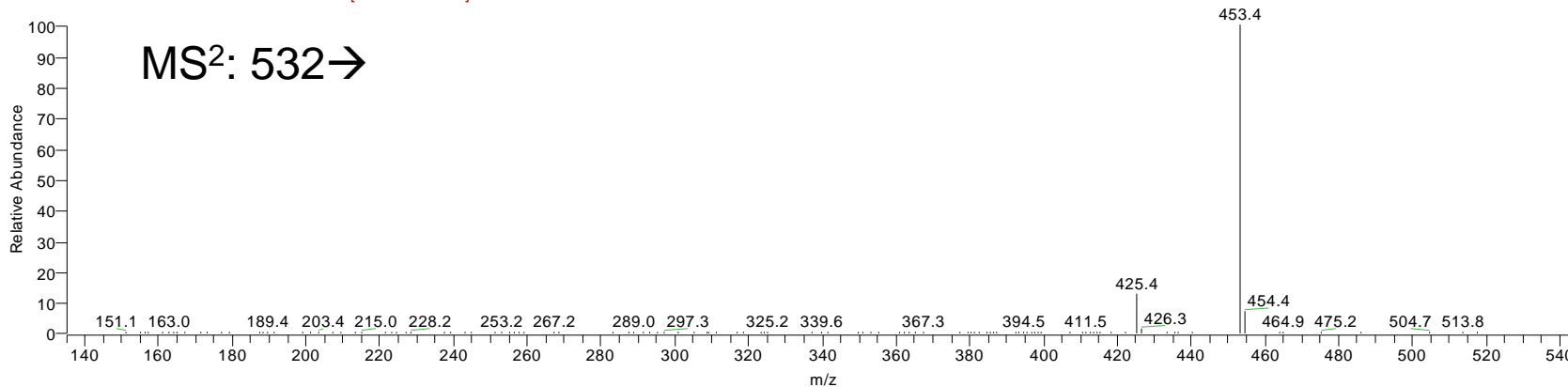


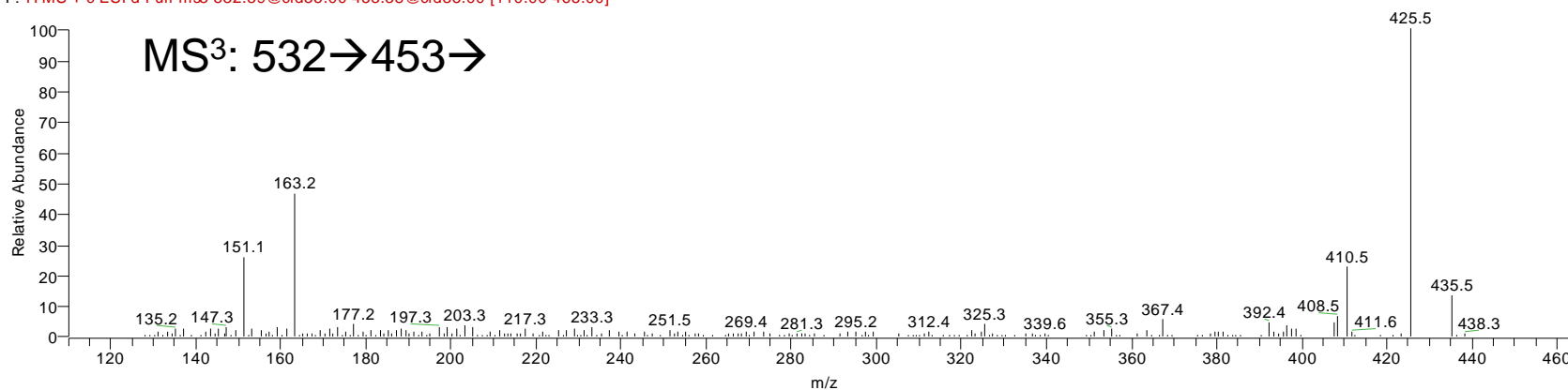
Fig. S4n

C⁴-3,24-dione 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #902 RT: 7.38 AV: 1 NL: 2.52E3
F: ITMS + c ESI d Full ms3 532.39@cid35.00 453.38@cid35.00 [110.00-465.00]



23 #891 RT: 7.51 AV: 1 NL: 5.26E4
F: ITMS + c ESI d Full ms3 532.39@cid35.00 453.31@cid35.00 [110.00-465.00]

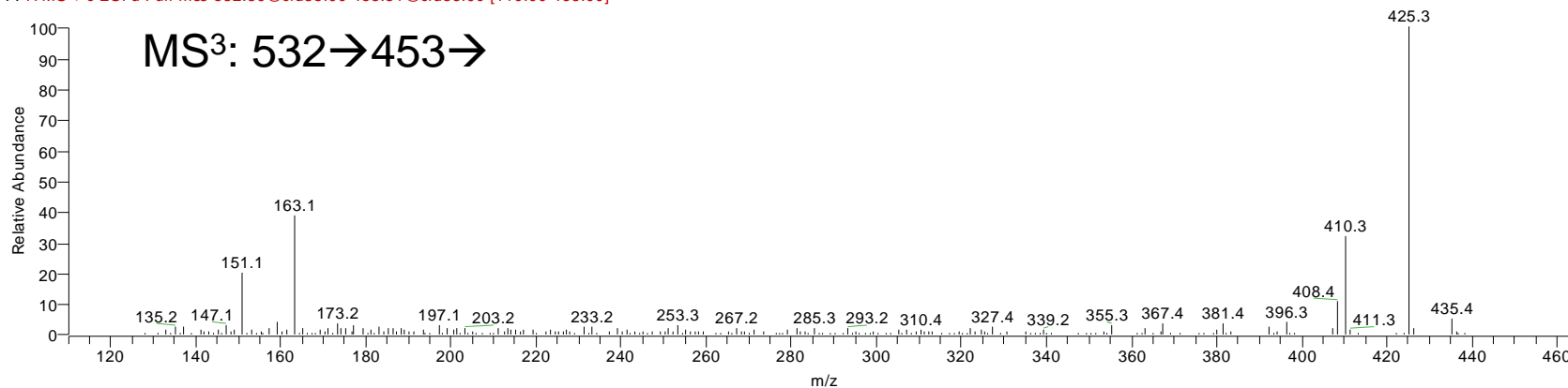


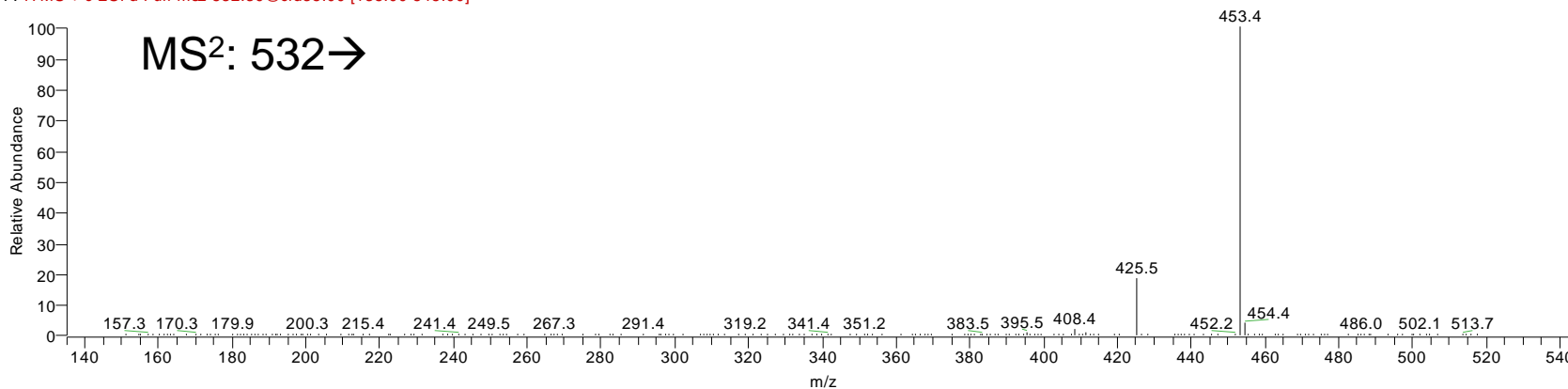
Fig. S4o

C⁴-3,6-dione 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1204 RT: 9.79 AV: 1 NL: 6.86E4
F: ITMS + c ESI d Full ms2 532.39@cid35.00 [135.00-545.00]



17 #1134 RT: 9.53 AV: 1 NL: 1.59E5
F: ITMS + c ESI d Full ms2 532.39@cid35.00 [135.00-545.00]

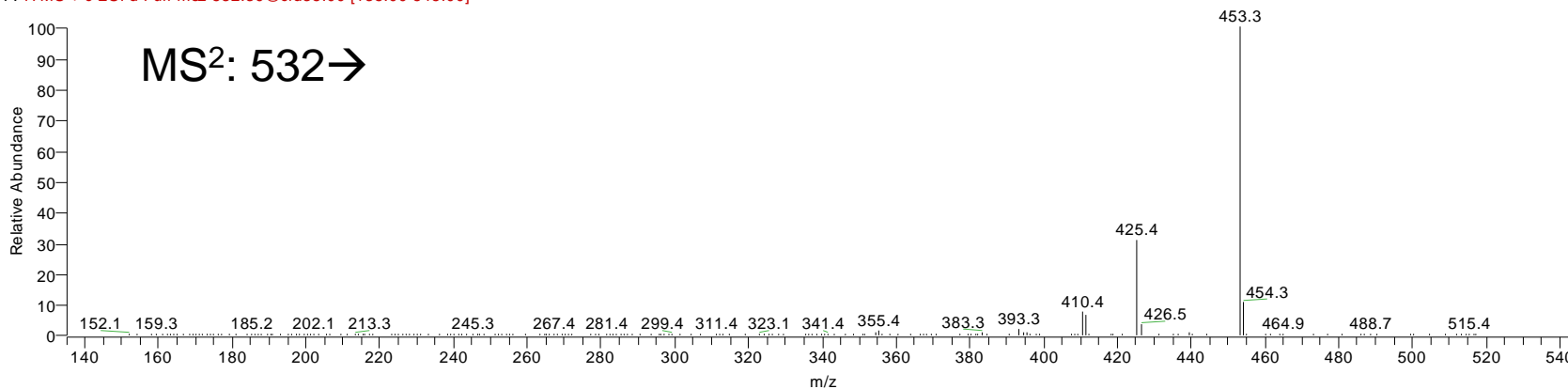


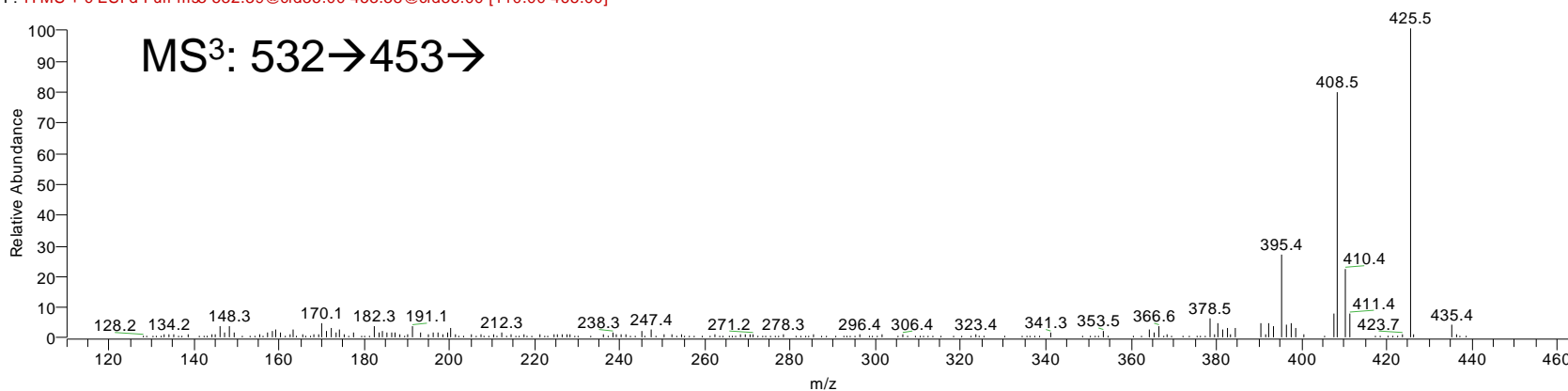
Fig. S4p

C⁴-3,6-dione 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1205 RT: 9.79 AV: 1 NL: 7.82E3
F: ITMS + c ESI d Full ms3 532.39@cid35.00 453.38@cid35.00 [110.00-465.00]



17 #1135 RT: 9.54 AV: 1 NL: 7.54E4
F: ITMS + c ESI d Full ms3 532.39@cid35.00 453.30@cid35.00 [110.00-465.00]

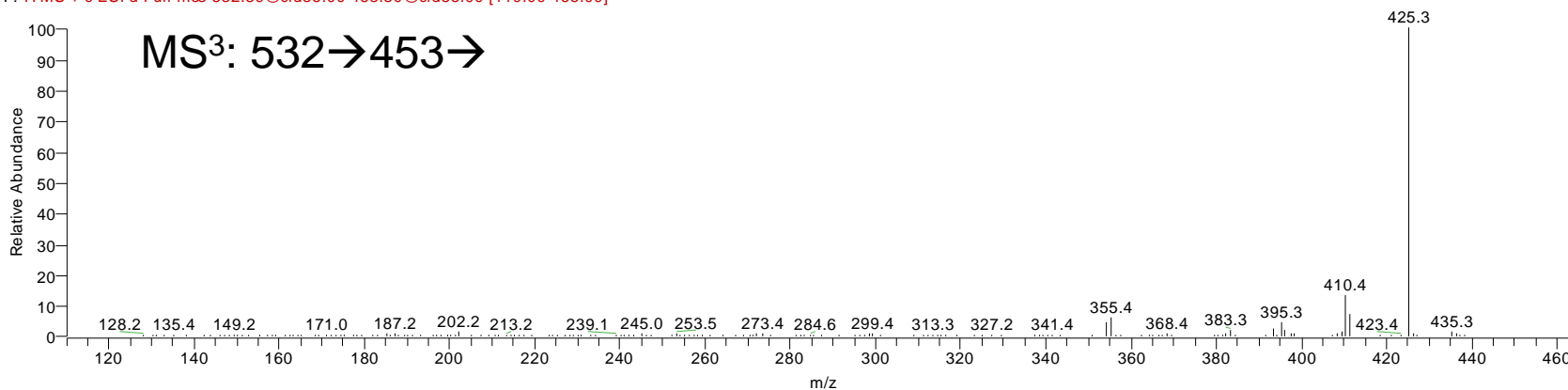


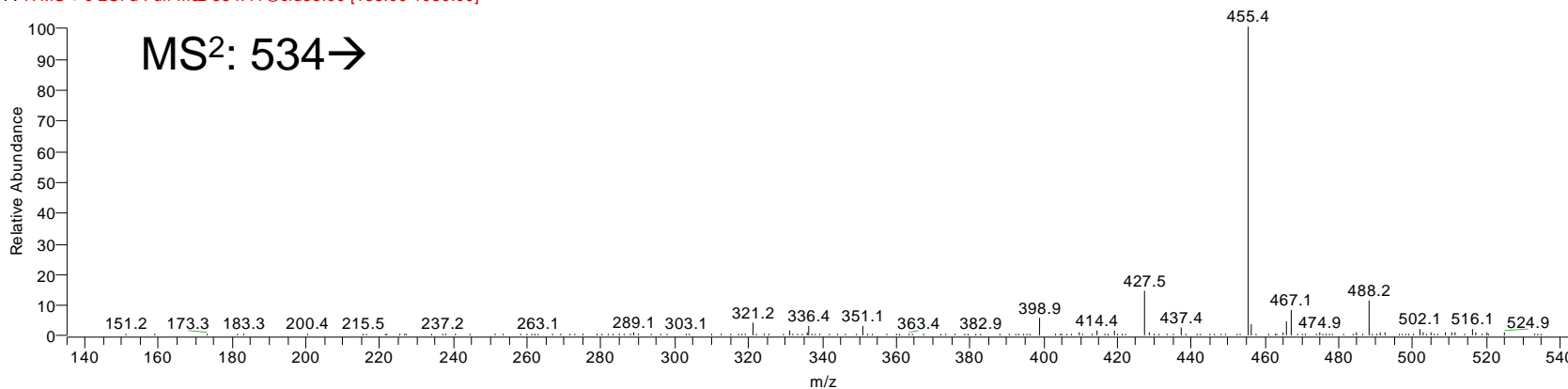
Fig. S4q

C⁴-22R-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #753 RT: 6.17 AV: 1 NL: 2.54E3
F: ITMS + c ESI d Full ms² 534.41@cid35.00 [135.00-1080.00]



9 #752 RT: 6.24 AV: 1 NL: 5.08E5
F: ITMS + c ESI d Full ms² 534.41@cid35.00 [135.00-545.00]

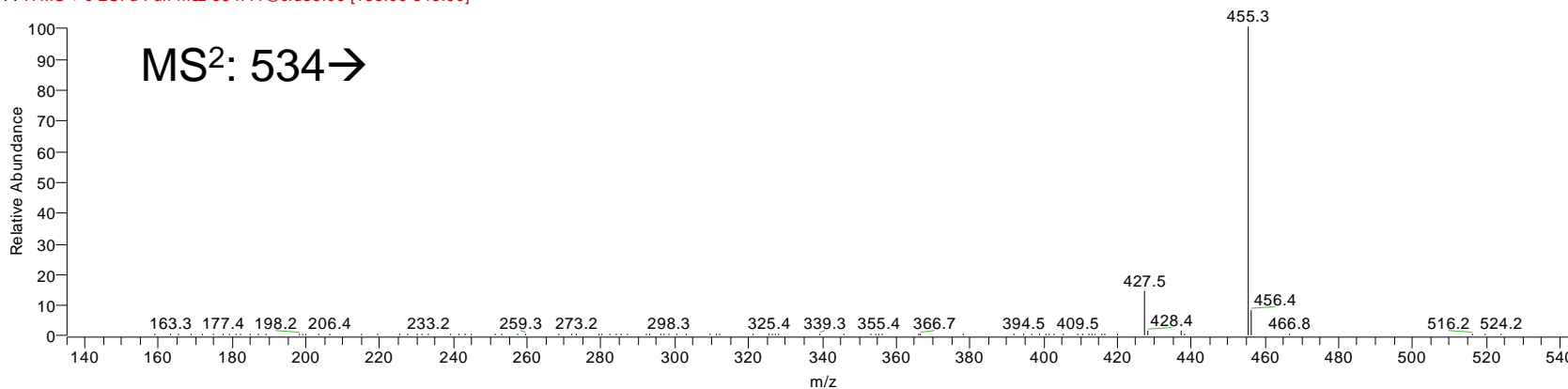


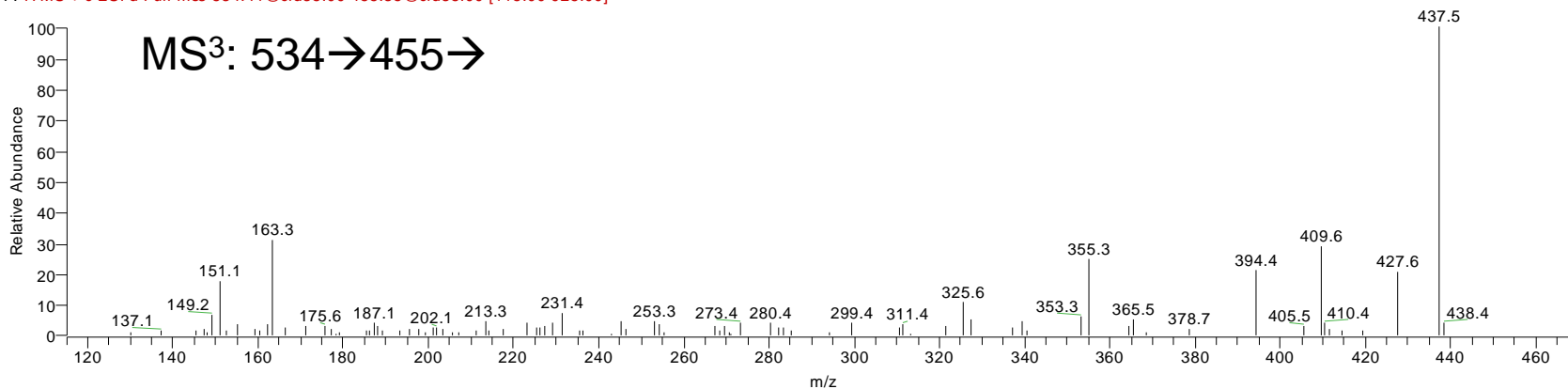
Fig. S4r

C⁴-22R-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #754 RT: 6.18 AV: 1 NL: 1.94E2
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.35@cid35.00 [115.00-925.00]



9 #753 RT: 6.24 AV: 1 NL: 6.08E4
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.34@cid35.00 [115.00-470.00]

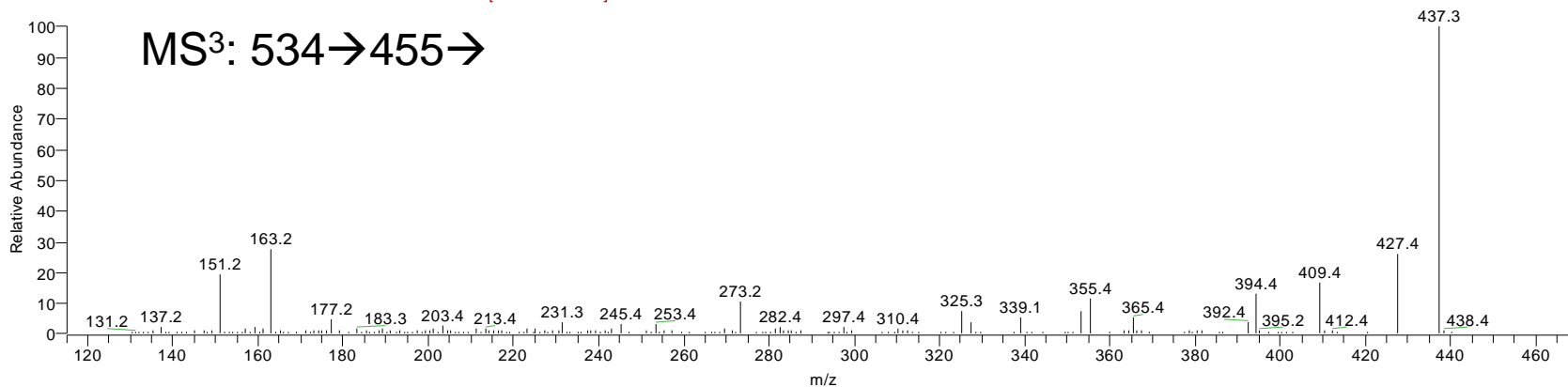


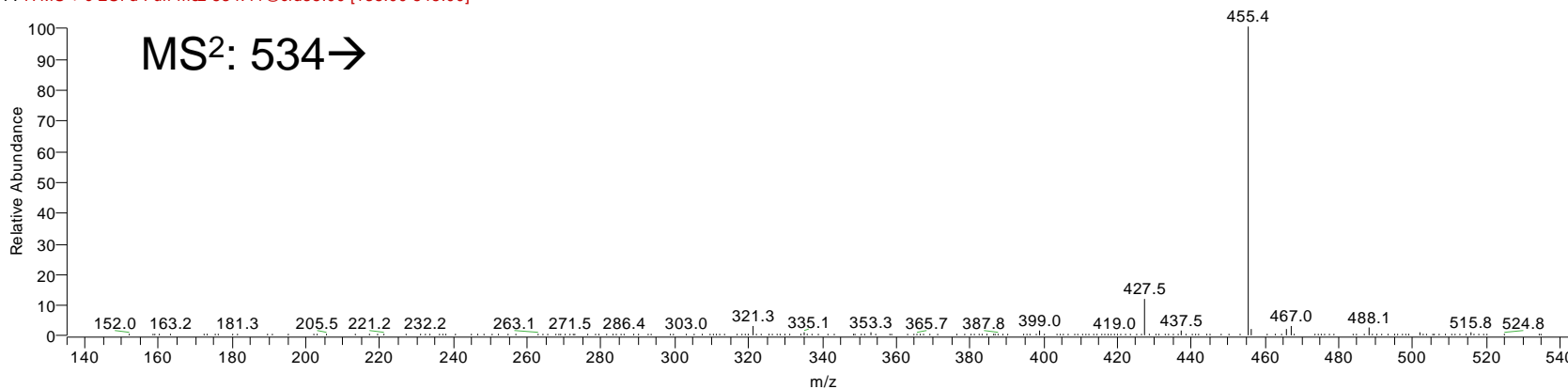
Fig. S4s

C⁴-24S-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #870 RT: 7.12 AV: 1 NL: 6.97E3
F: ITMS + c ESI d Full ms2 534.41@cid35.00 [135.00-545.00]



11 #860 RT: 7.25 AV: 1 NL: 6.73E5
F: ITMS + c ESI d Full ms2 534.41@cid35.00 [135.00-545.00]

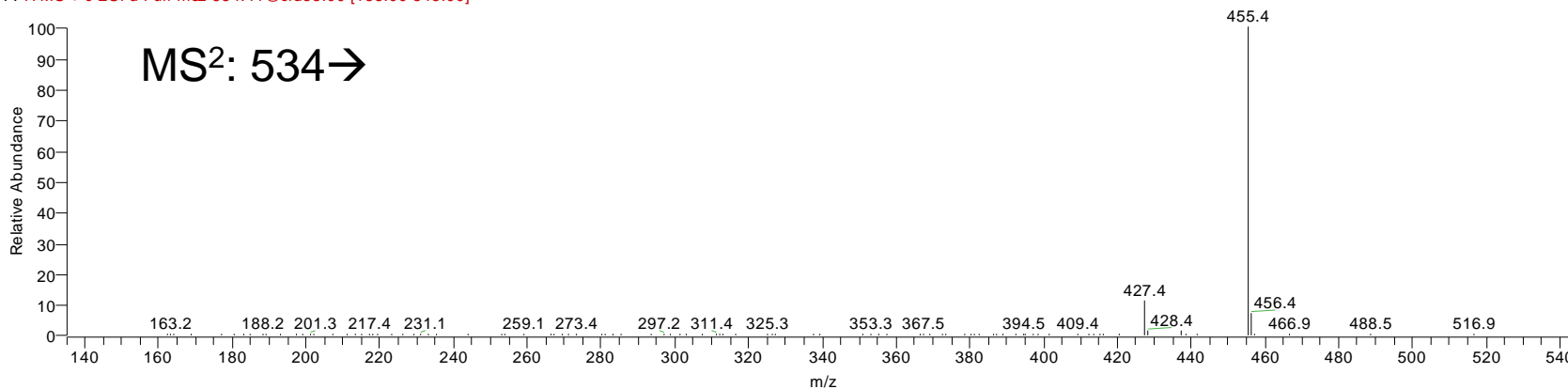


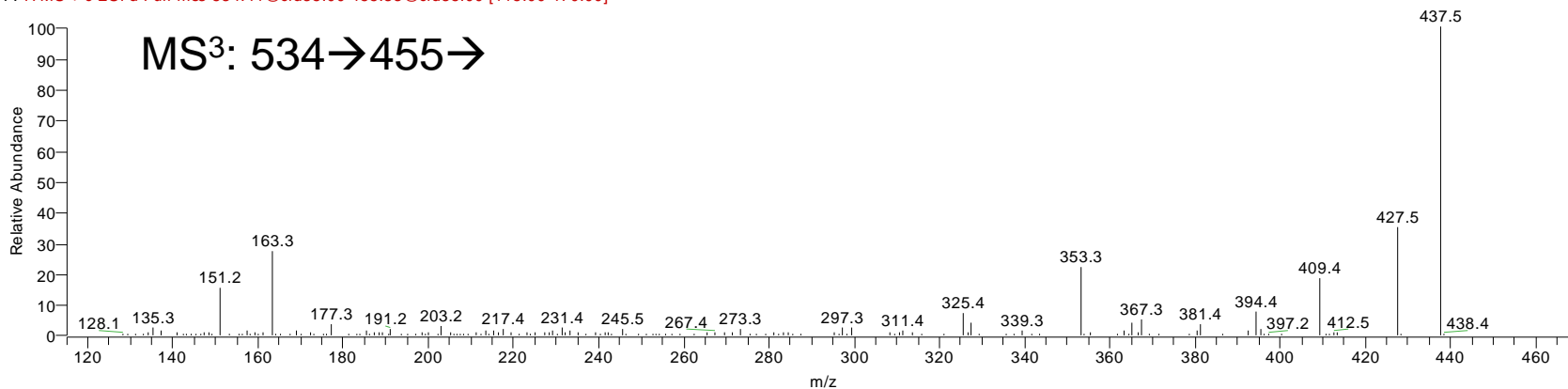
Fig. S4t

C⁴-24S-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #871 RT: 7.13 AV: 1 NL: 1.21E3
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.33@cid35.00 [115.00-470.00]



11 #861 RT: 7.26 AV: 1 NL: 9.18E4
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.29@cid35.00 [115.00-470.00]

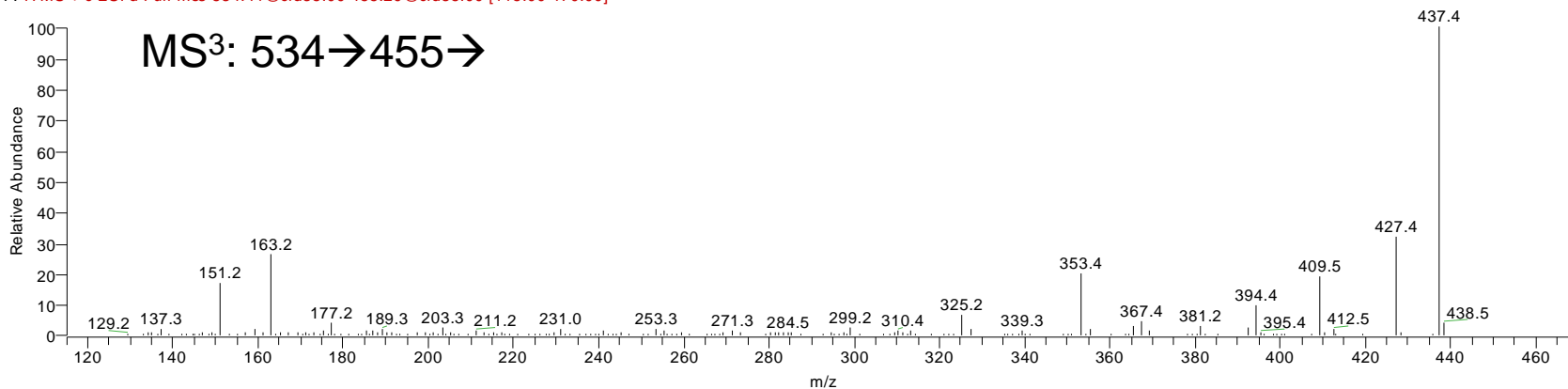


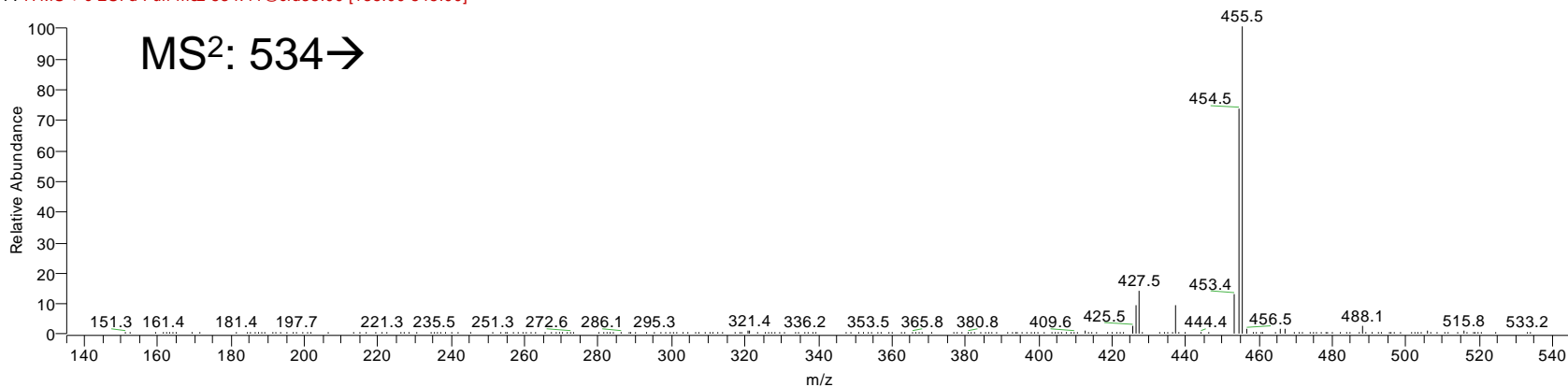
Fig. S4u

C⁴-25-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #906 RT: 7.41 AV: 1 NL: 9.73E3
F: ITMS + c ESI d Full ms2 534.41@cid35.00 [135.00-545.00]



12 #884 RT: 7.44 AV: 1 NL: 2.07E6
F: ITMS + c ESI d Full ms2 534.41@cid35.00 [135.00-545.00]

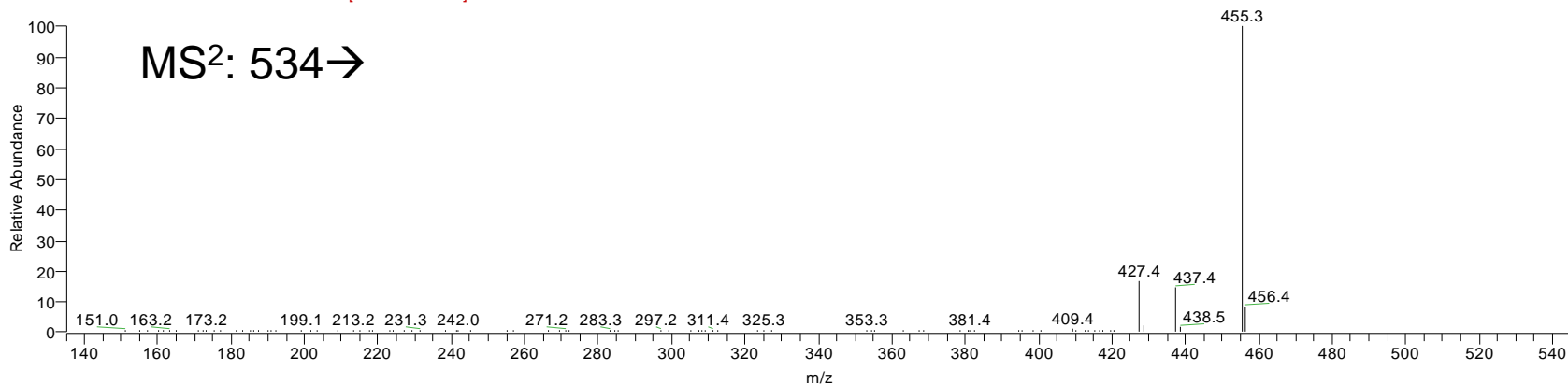


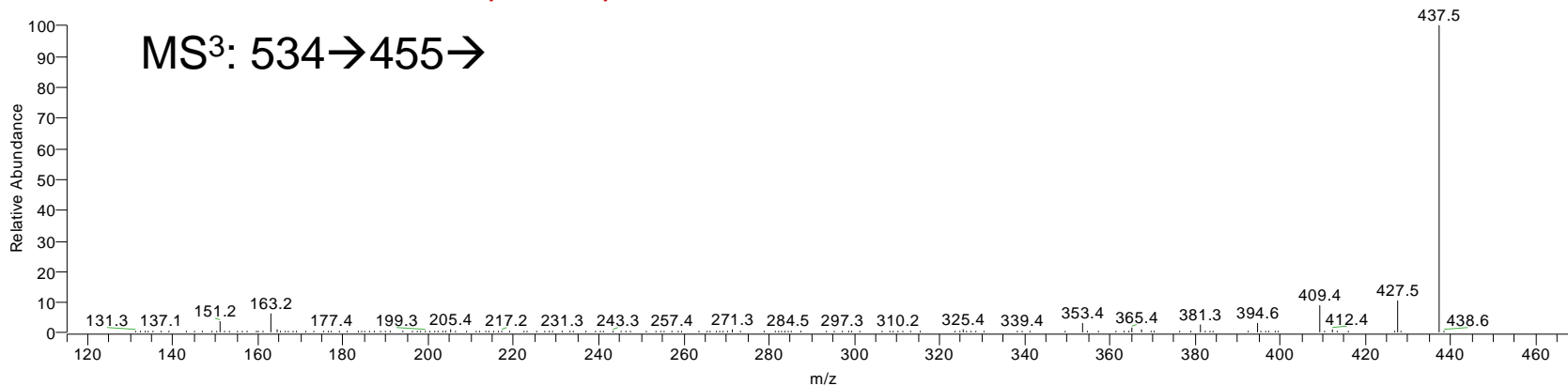
Fig. S4v

C⁴-25-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #907 RT: 7.42 AV: 1 NL: 3.51E3
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.33@cid35.00 [115.00-470.00]



12 #885 RT: 7.44 AV: 1 NL: 1.43E6
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.30@cid35.00 [115.00-470.00]

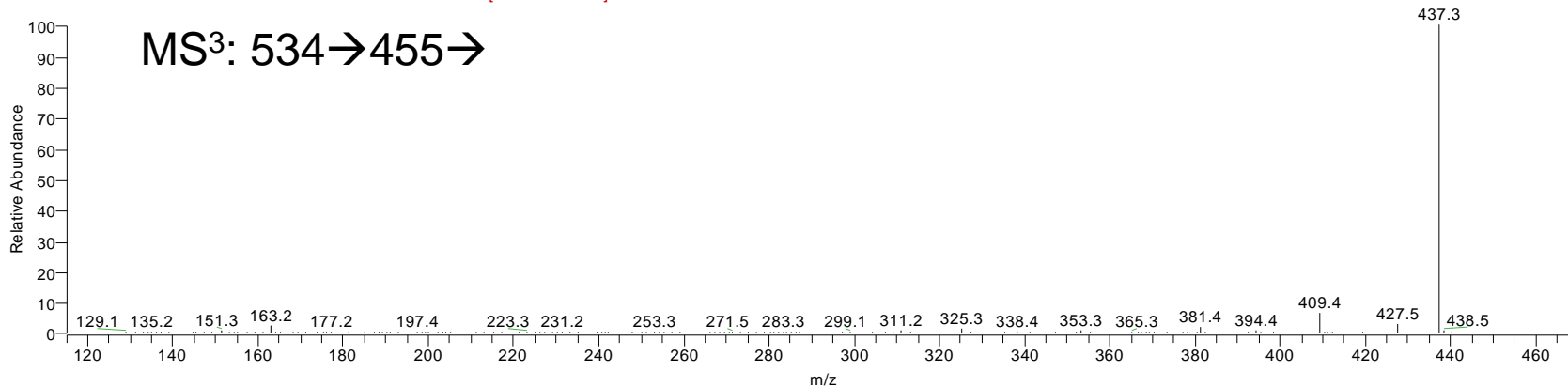


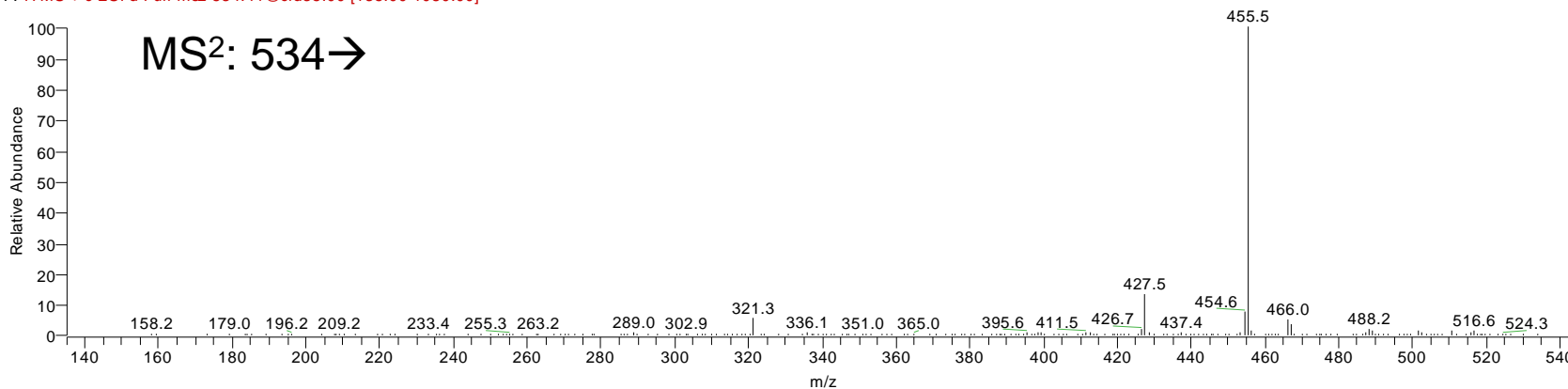
Fig. S4w

C⁴-27-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1028 RT: 8.41 AV: 1 NL: 4.48E3
F: ITMS + c ESI d Full ms² 534.41@cid35.00 [135.00-1080.00]



sample_14 #828 RT: 8.13 AV: 1 NL: 3.77E5
F: ITMS + c ESI d Full ms² 534.40@cid30.00 [135.00-545.00]

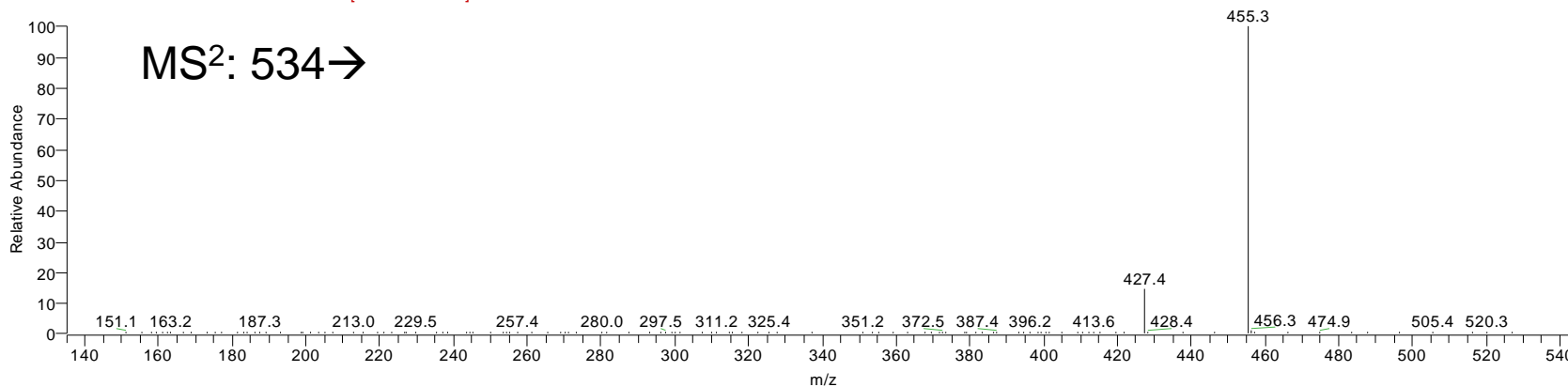


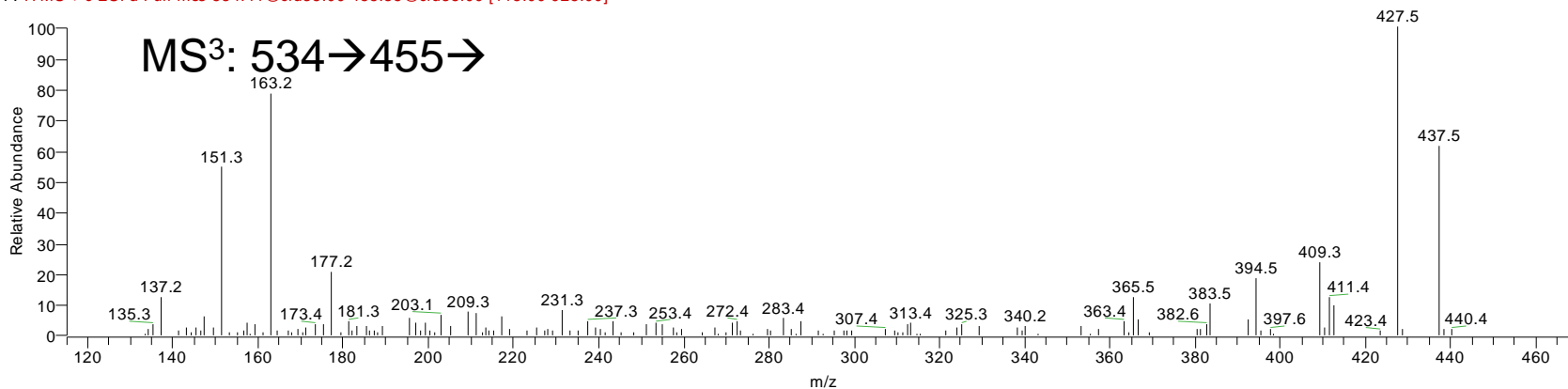
Fig. S4x

C⁴-27-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1029 RT: 8.42 AV: 1 NL: 2.73E2
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.35@cid35.00 [115.00-925.00]



sample_14 #829 RT: 8.13 AV: 1 NL: 3.36E4
F: ITMS + c ESI d Full ms3 534.40@cid30.00 455.44@cid35.00 [115.00-470.00]

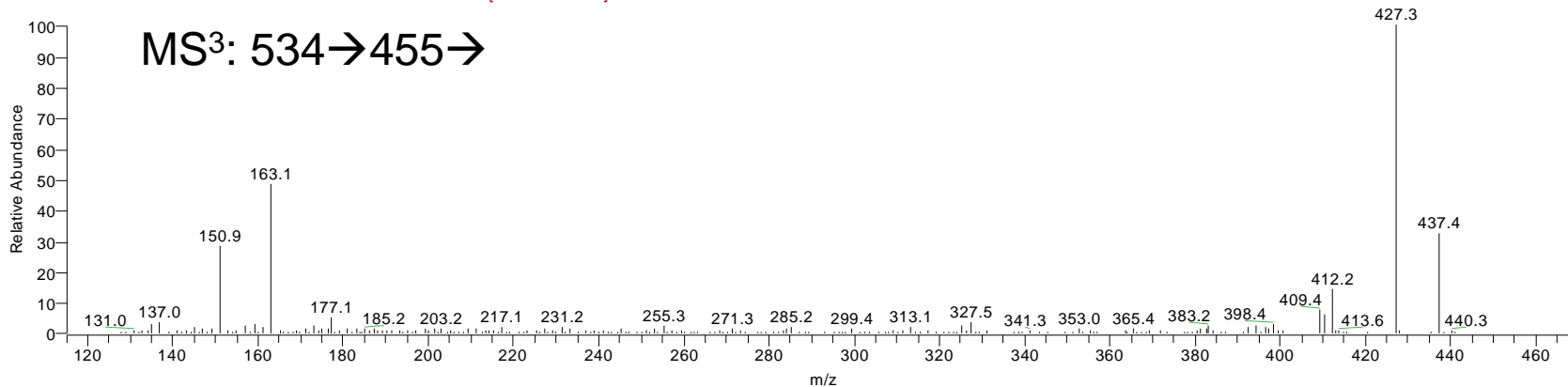


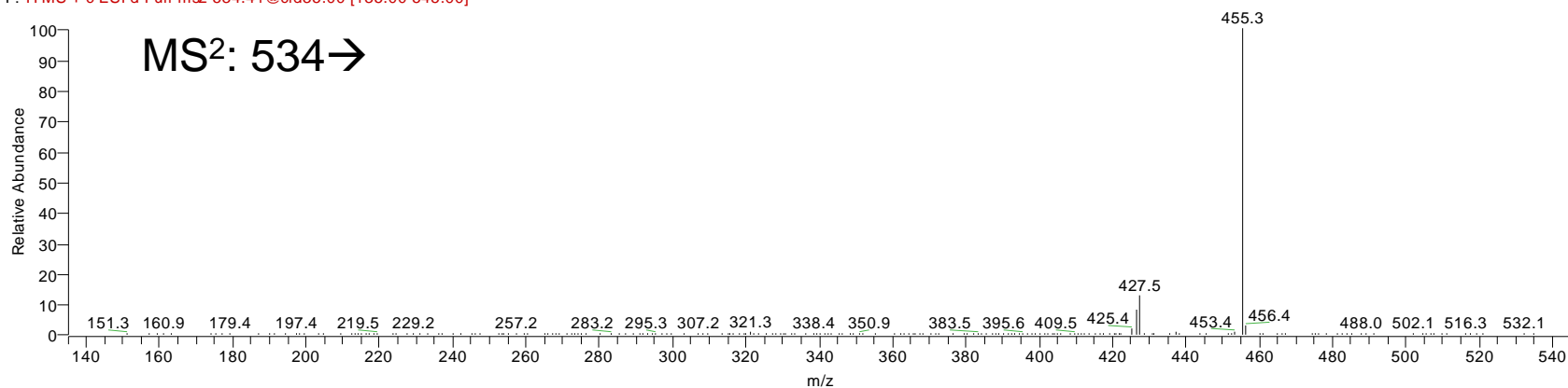
Fig. S4y

C⁴-7 β -ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1109 RT: 9.07 AV: 1 NL: 4.23E4
F: ITMS + c ESI d Full ms2 534.41@cid35.00 [135.00-545.00]



5 #1100 RT: 9.25 AV: 1 NL: 1.34E5
F: ITMS + c ESI d Full ms2 534.41@cid35.00 [135.00-545.00]

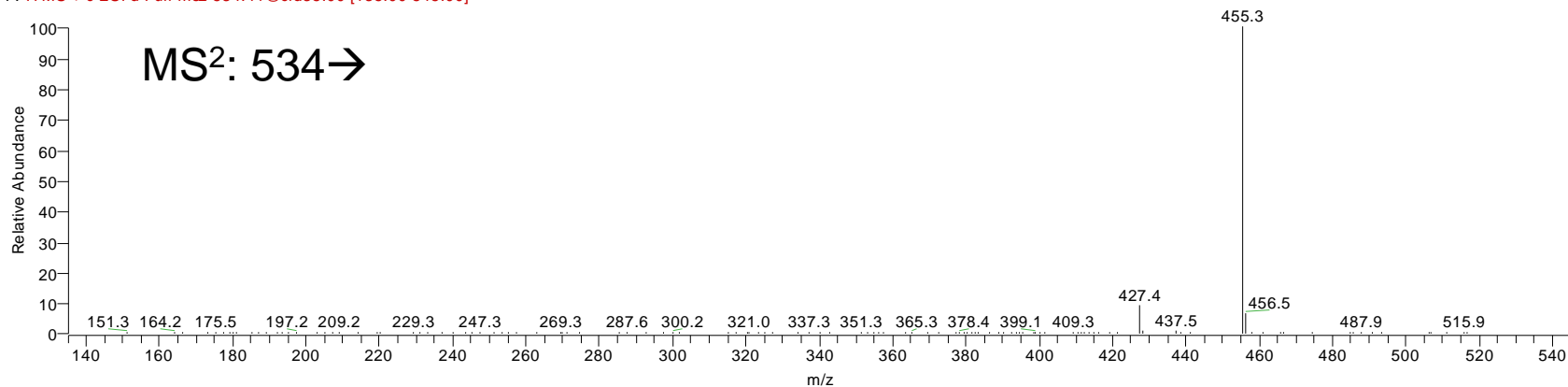


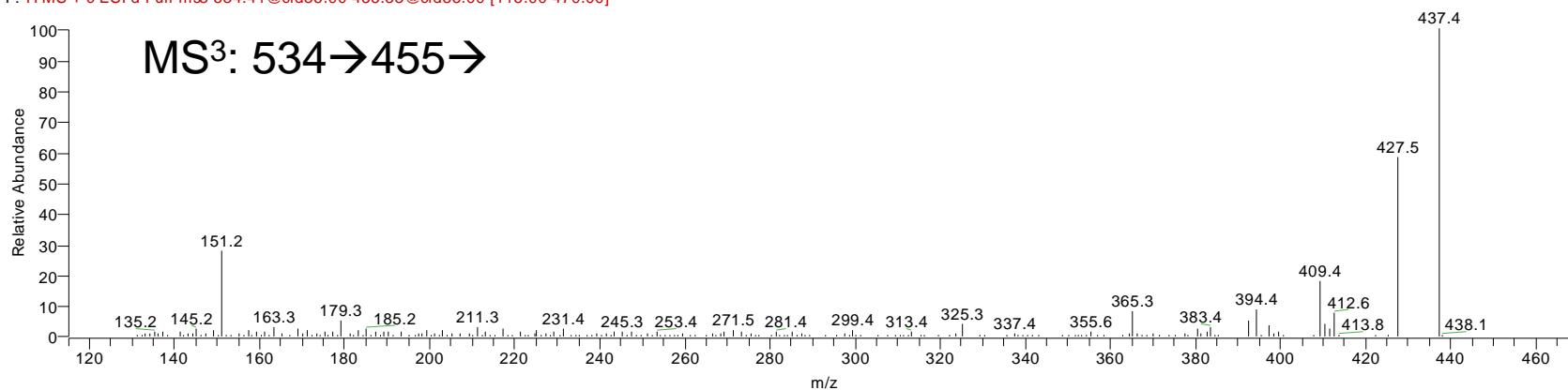
Fig. S4z

C⁴-7 β -ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1110 RT: 9.08 AV: 1 NL: 4.69E3
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.33@cid35.00 [115.00-470.00]



5 #1101 RT: 9.25 AV: 1 NL: 1.31E4
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.34@cid35.00 [115.00-470.00]

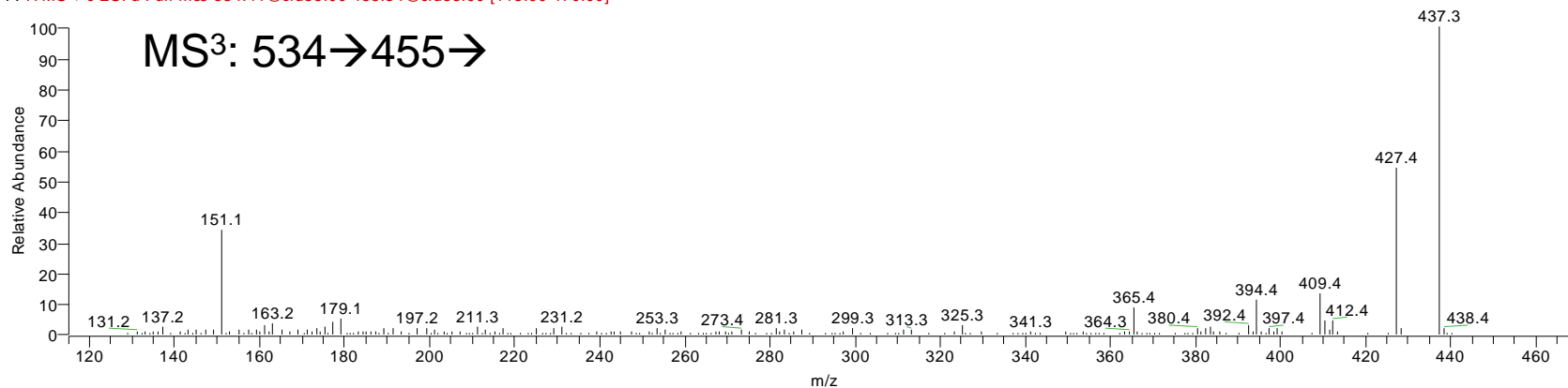


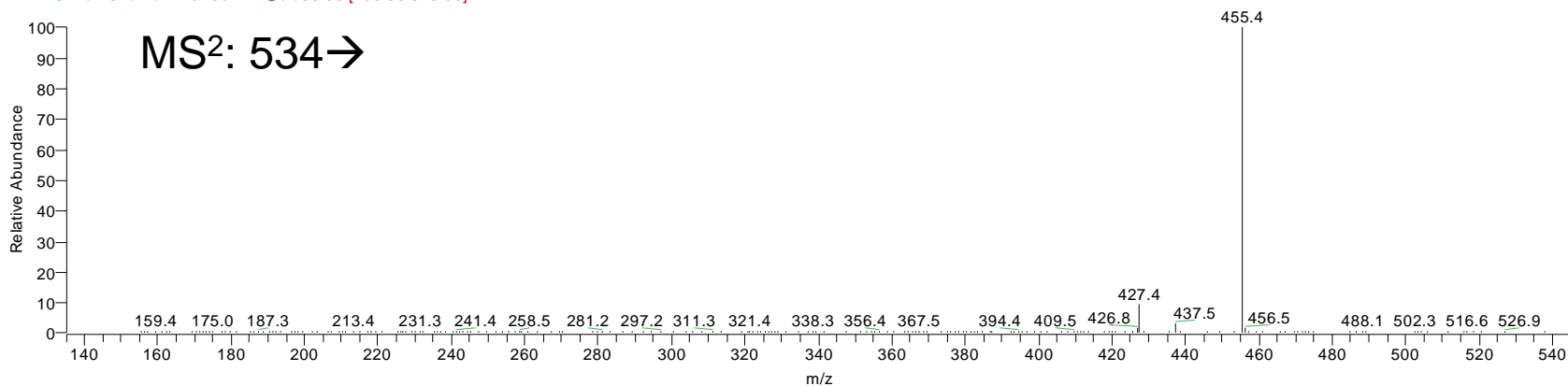
Fig. S4aa

C⁴-7 α -ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1178 RT: 9.60 AV: 1 NL: 7.25E4
F: ITMS + c ESI d Full ms² 534.41@cid35.00 [135.00-545.00]



sample_20 #1015 RT: 10.06 AV: 1 NL: 2.85E5
F: ITMS + c ESI d Full ms² 534.41@cid30.00 [135.00-545.00]

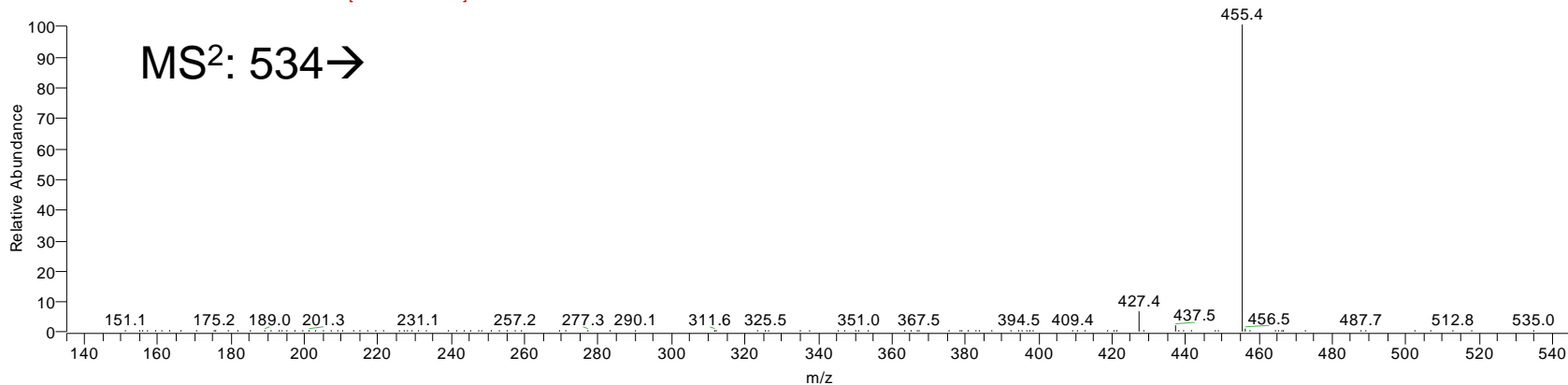


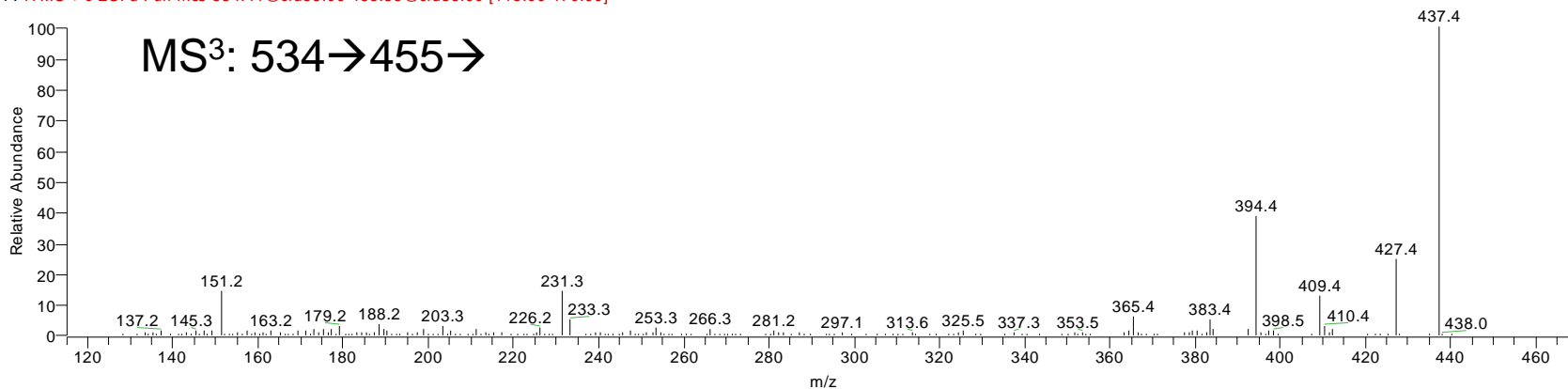
Fig. S4ab

C⁴-7 α -ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1179 RT: 9.60 AV: 1 NL: 9.59E3
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.33@cid35.00 [115.00-470.00]



sample_20 #1016 RT: 10.06 AV: 1 NL: 4.06E4
F: ITMS + c ESI d Full ms3 534.41@cid30.00 455.29@cid35.00 [115.00-470.00]

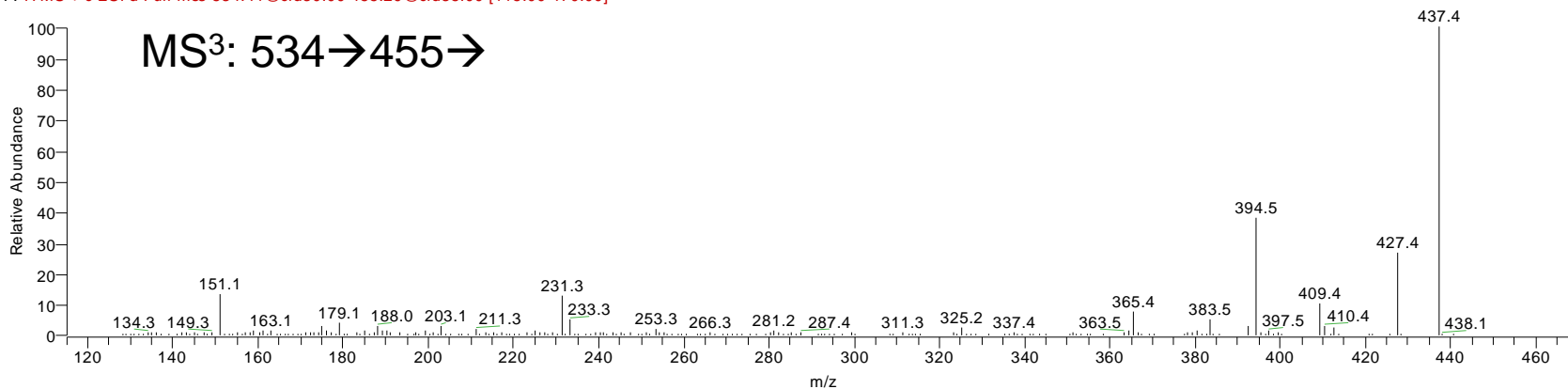


Fig. S4ac

C⁷-x-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1198 RT: 9.75 AV: 1 NL: 4.31E4
F: ITMS + c ESI d Full ms2 534.41 @cid35.00 [135.00-545.00]

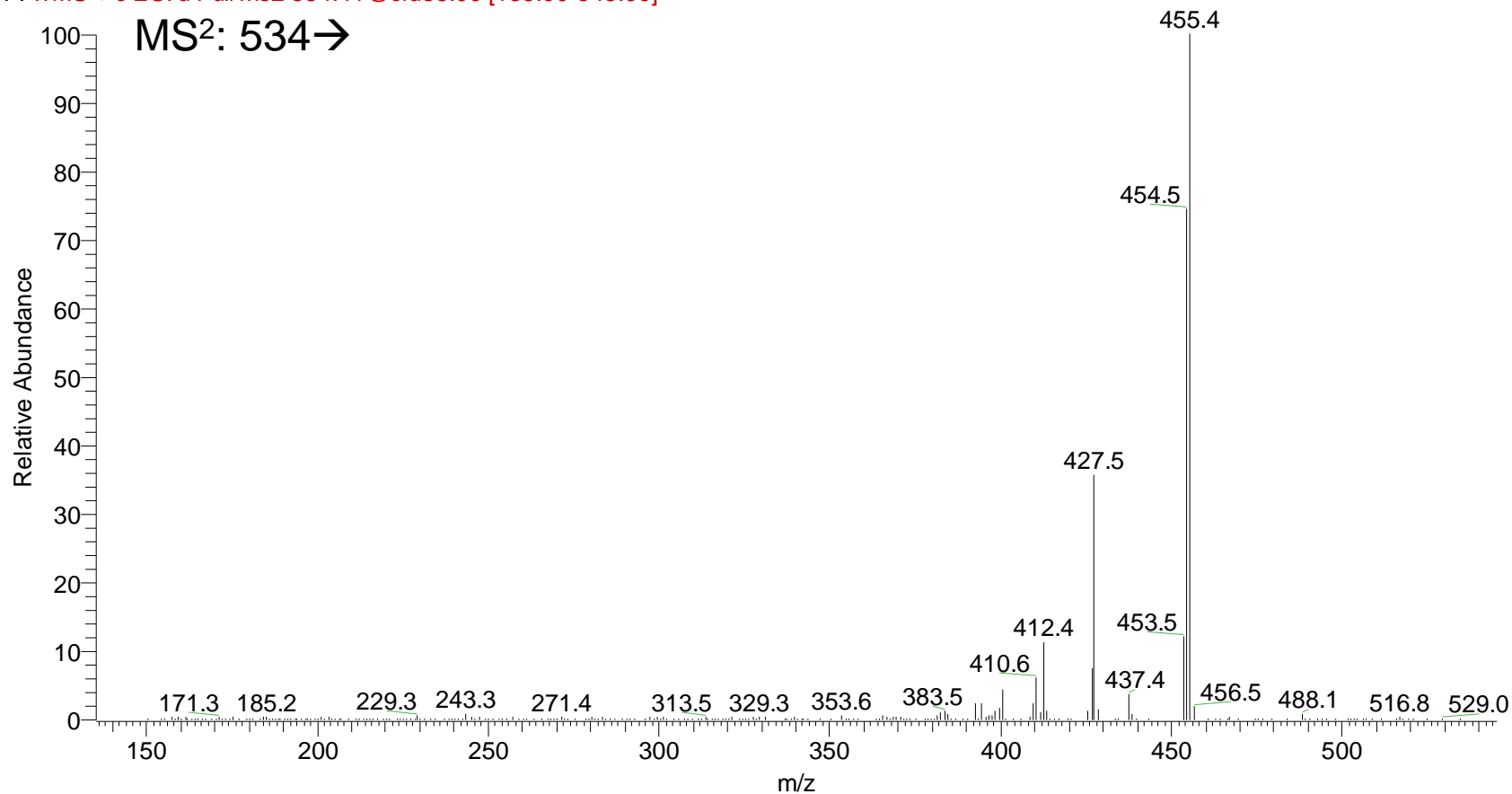


Fig. S4ad

C⁷-x-ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1199 RT: 9.75 AV: 1 NL: 1.41E4

F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.33@cid35.00 [115.00-470.00]

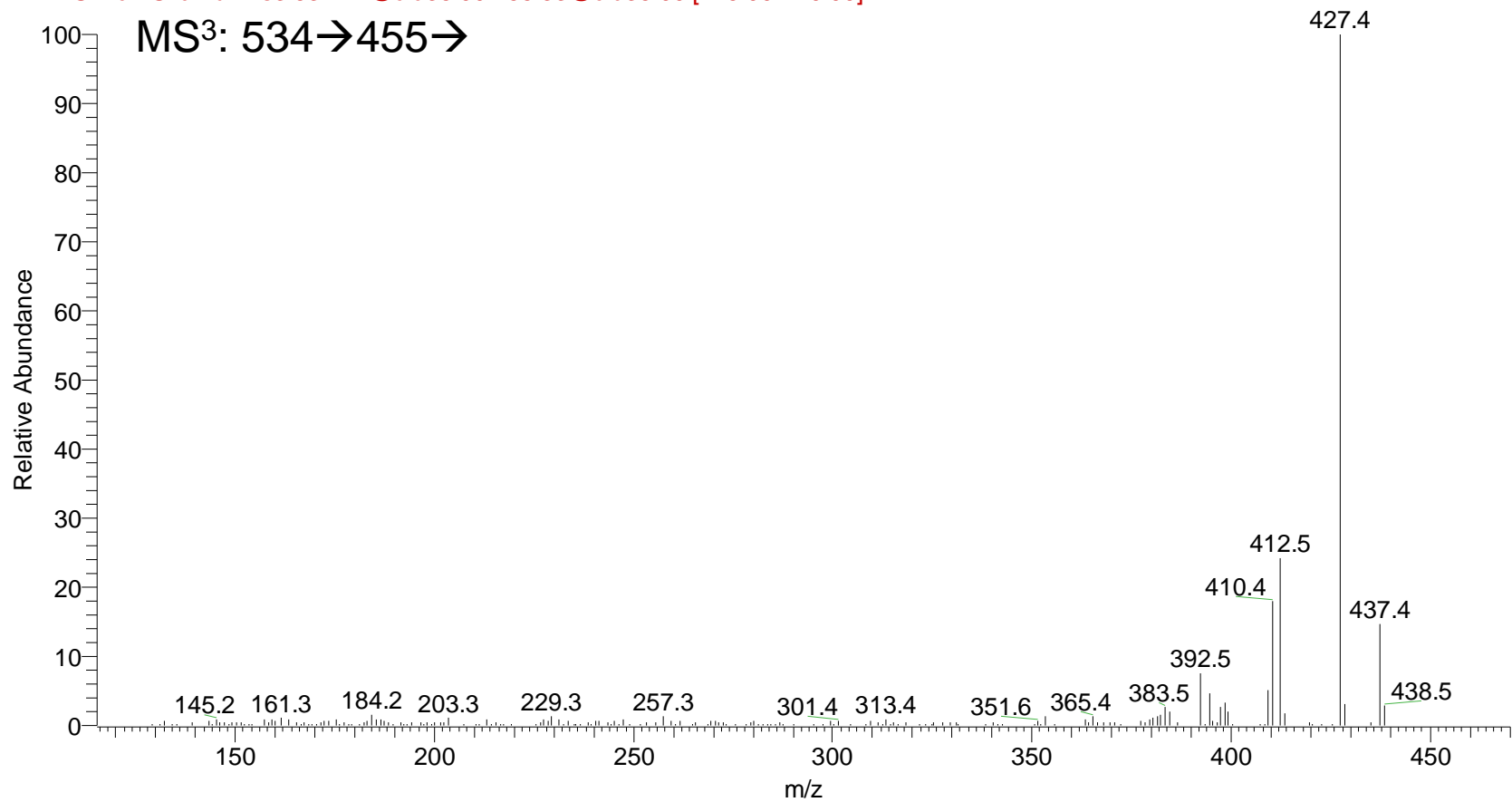


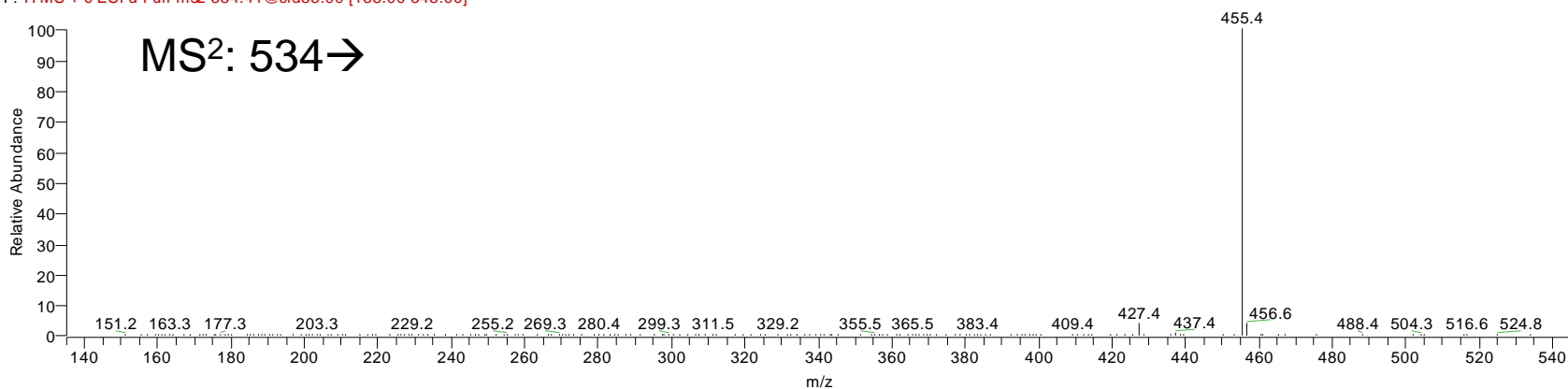
Fig. S4ae

C⁴-6 β -ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1218 RT: 9.89 AV: 1 NL: 4.41E5
F: ITMS + c ESI d Full ms² 534.41@cid35.00 [135.00-545.00]



4 #1196 RT: 9.91 AV: 1 NL: 3.31E6
F: ITMS + c ESI d Full ms² 534.41@cid35.00 [135.00-545.00]

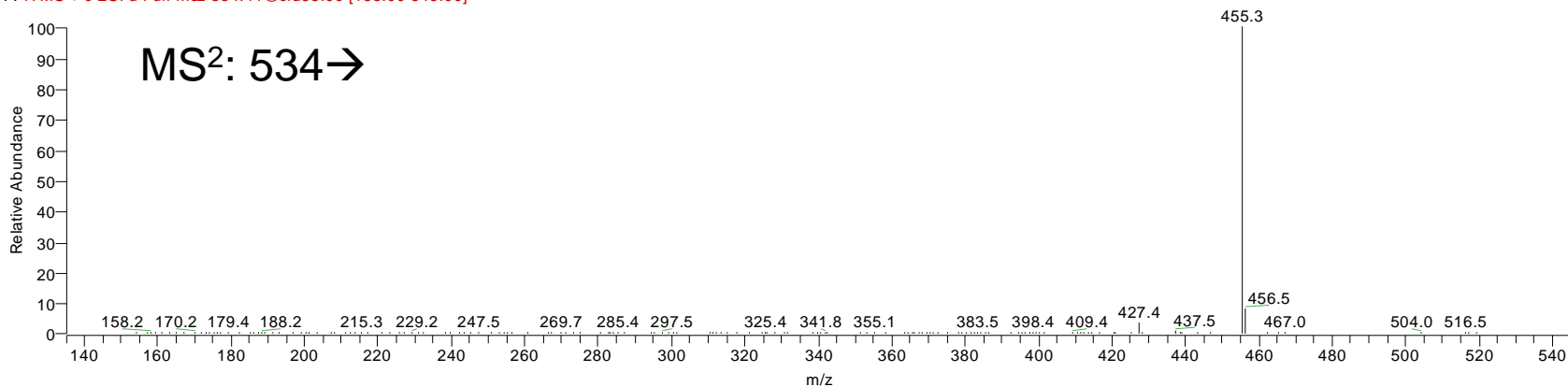


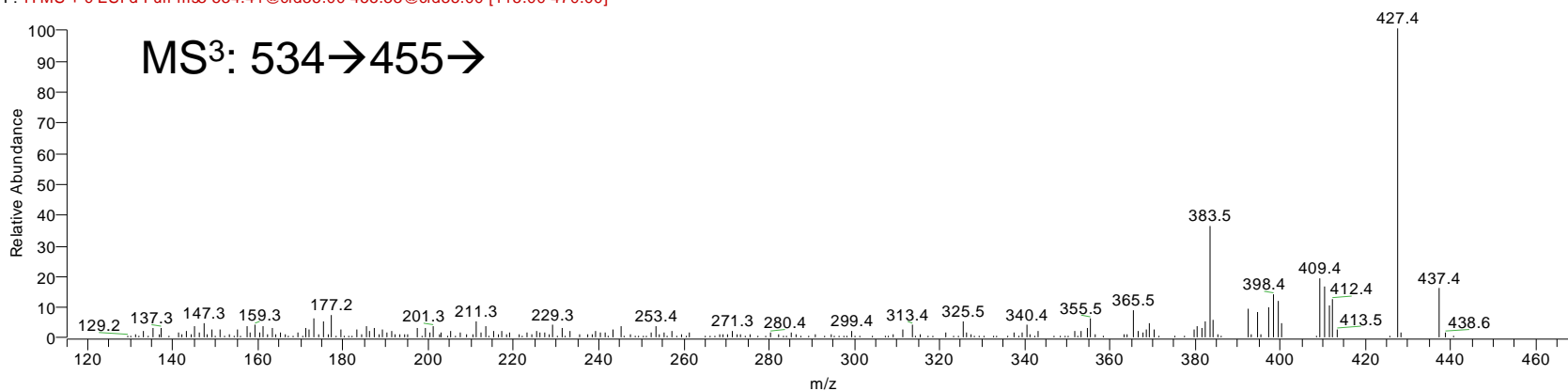
Fig. S4af

C⁴-6 β -ol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1219 RT: 9.89 AV: 1 NL: 3.74E4
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.33@cid35.00 [115.00-470.00]



4 #1197 RT: 9.91 AV: 1 NL: 2.49E5
F: ITMS + c ESI d Full ms3 534.41@cid35.00 455.32@cid35.00 [115.00-470.00]

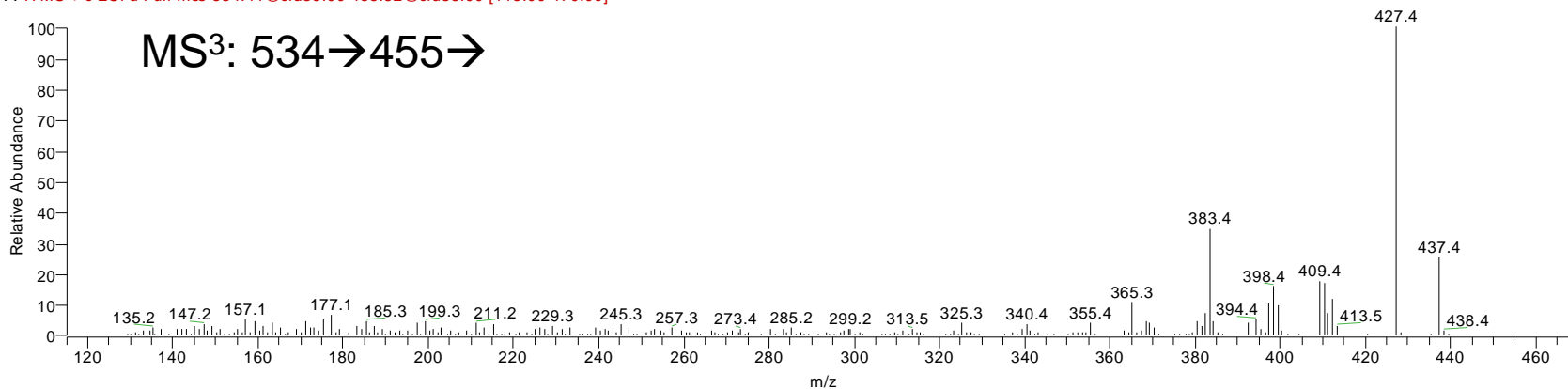


Fig. S4ag

C^{X,Y}-x,y-diol-z-one z-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1201 RT: 9.76 AV: 1 NL: 1.80E3
F: ITMS + c ESI d Full ms2 548.38@cid35.00 [140.00-560.00]

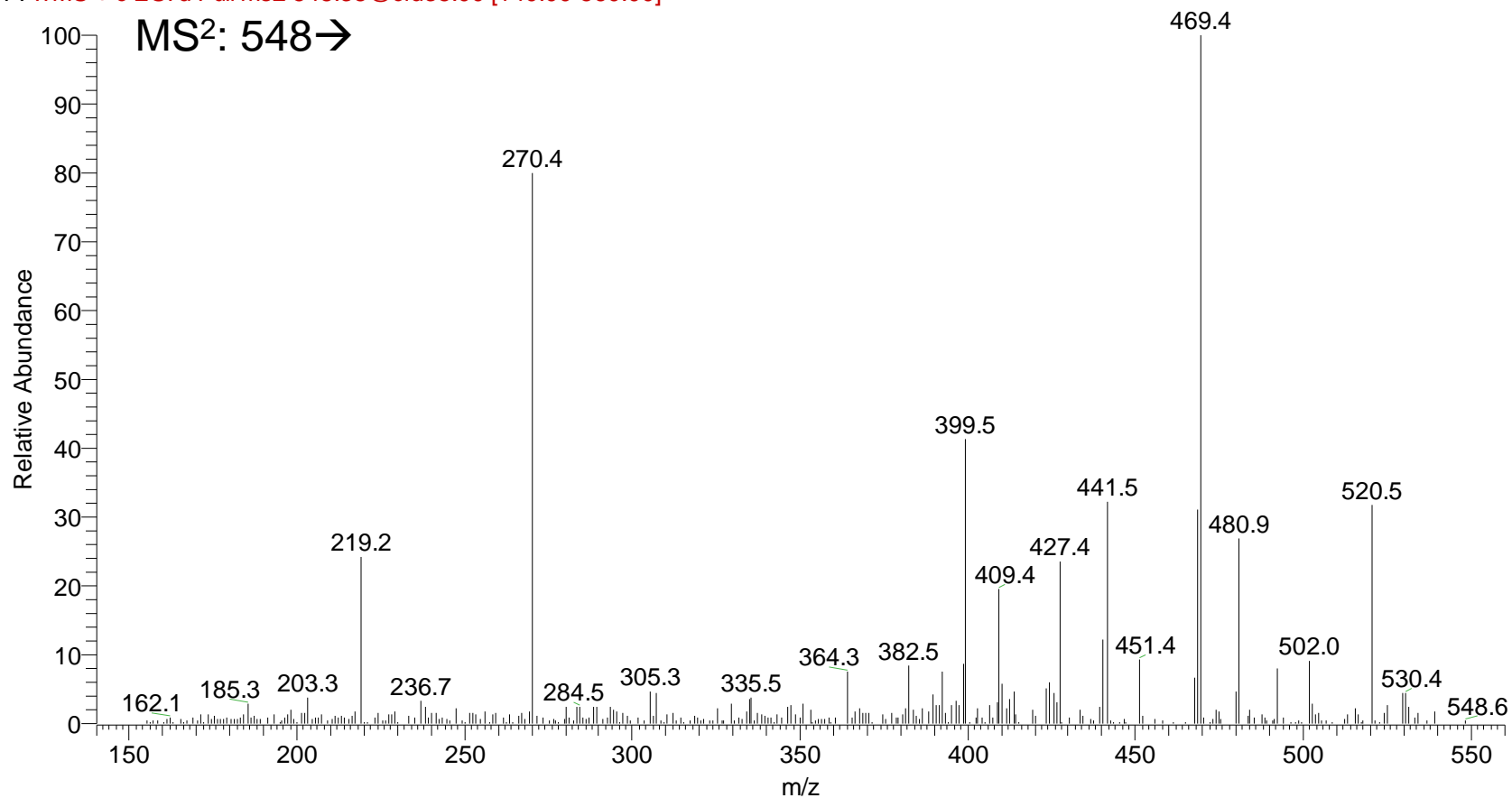


Fig. S4ah

C^{X,Y}-x,y-diol-z-one z-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1202 RT: 9.77 AV: 1 NL: 2.59E2

F: ITMS + c ESI d Full ms3 548.38@cid35.00 469.37@cid35.00 [115.00-480.00]

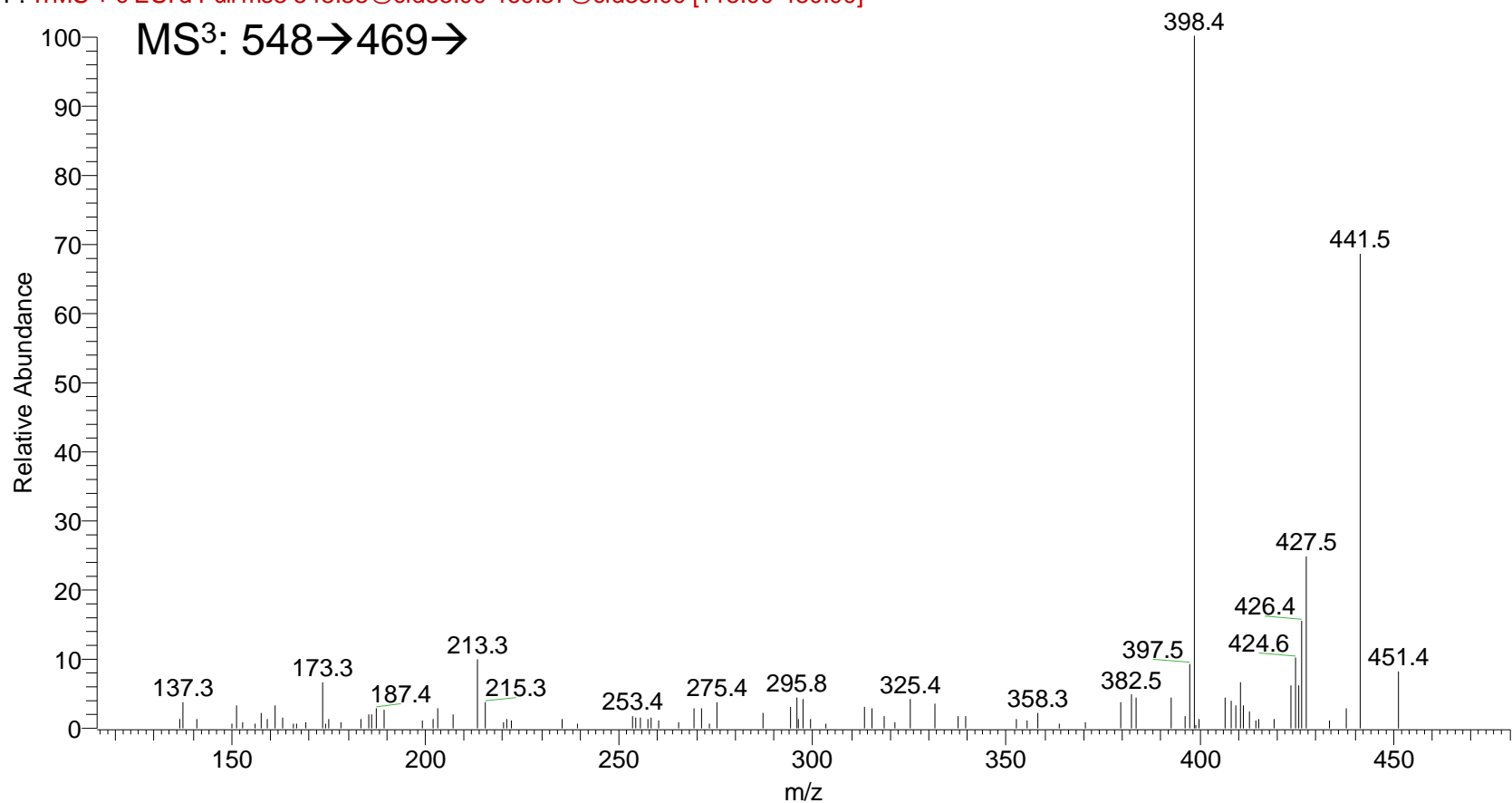


Fig. S4ai

C^{X,Y}-x,y-diol-z-one z-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1242 RT: 10.06 AV: 1 NL: 5.20E2
F: ITMS + c ESI d Full ms2 548.38@cid35.00 [140.00-1110.00]

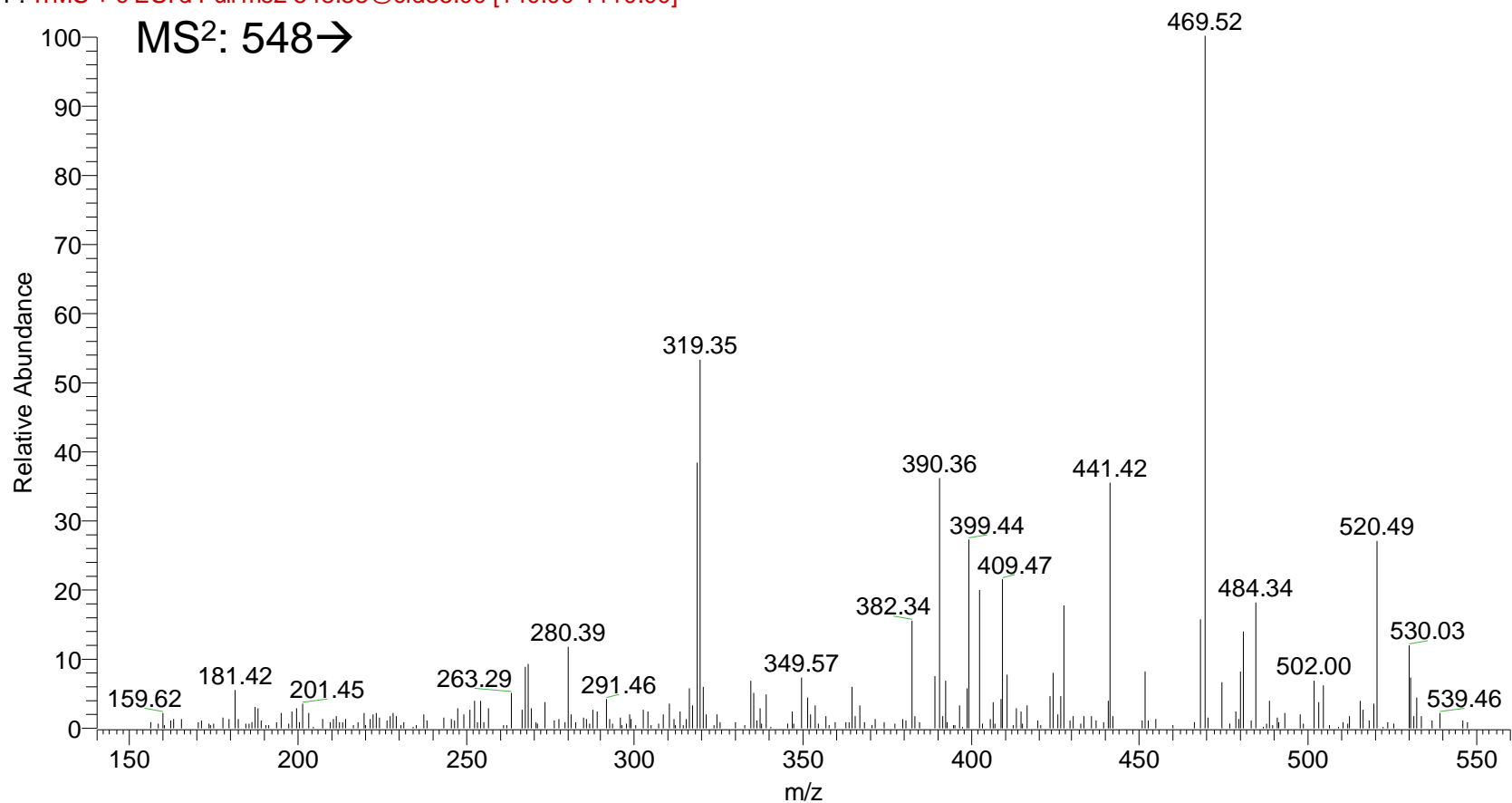


Fig. S4aj

C^{X,Y}-x,y-diol-z-one z-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1243 RT: 10.07 AV: 1 NL: 5.82E1

F: ITMS + c ESI d Full ms3 548.38@cid35.00 469.37@cid35.00 [115.00-950.00]

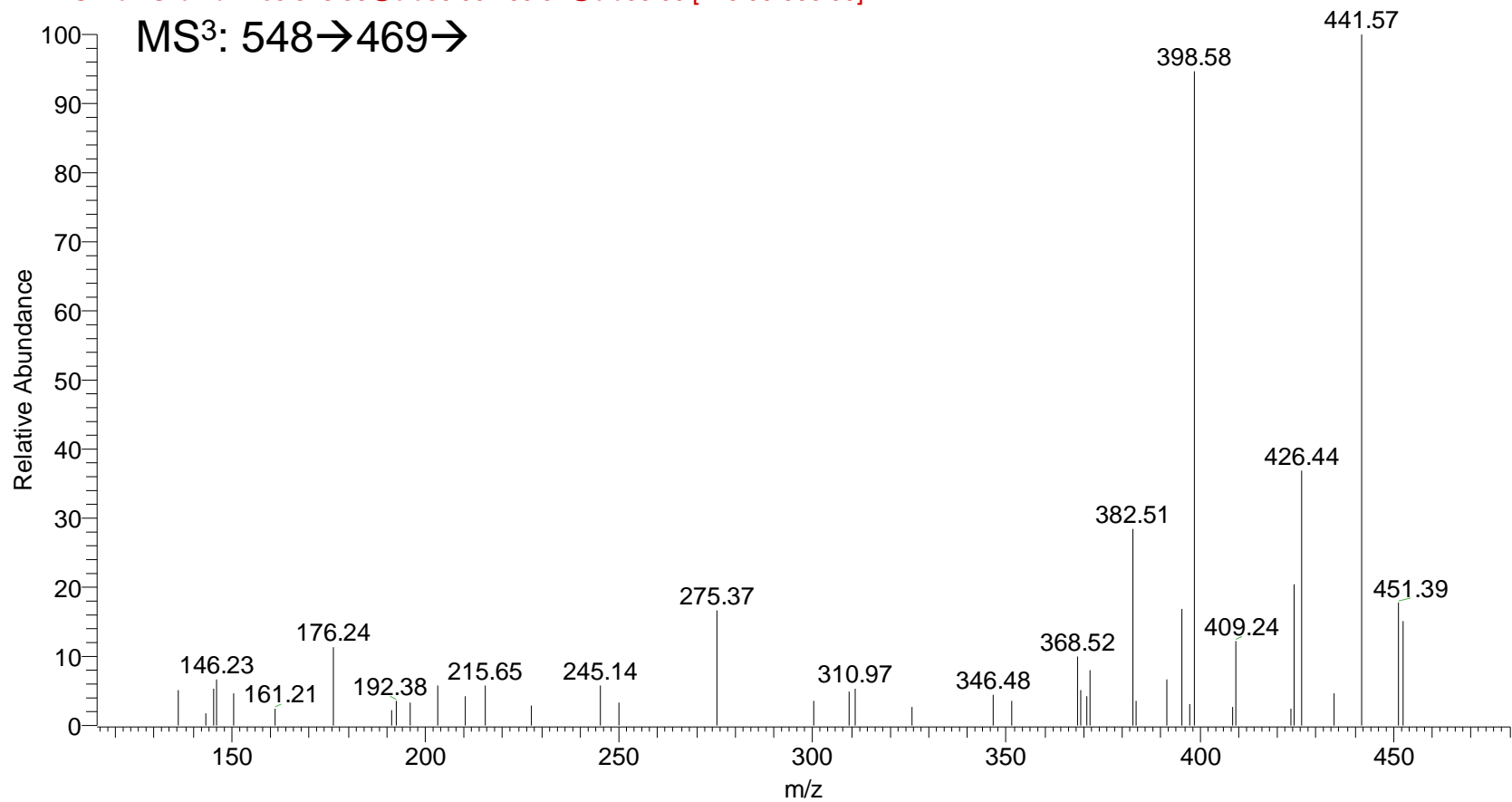


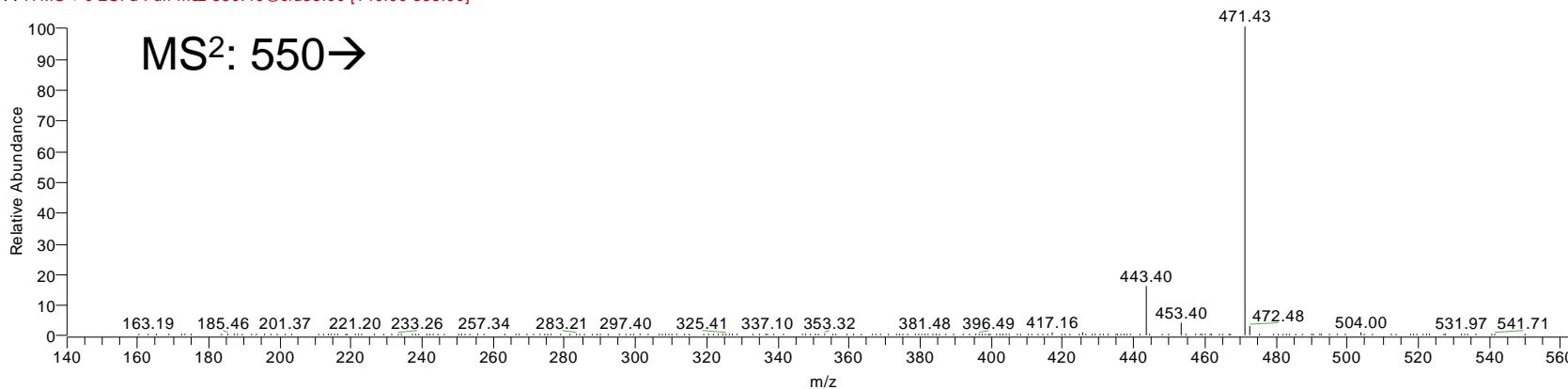
Fig. S4ak

C⁴-24,25-diol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #540 RT: 4.43 AV: 1 NL: 2.50E4
F: ITMS + c ESI d Full ms2 550.40@cid35.00 [140.00-565.00]



sample_39 #467 RT: 4.72 AV: 1 NL: 8.53E4
F: ITMS + c ESI d Full ms2 550.40@cid30.00 [140.00-565.00]

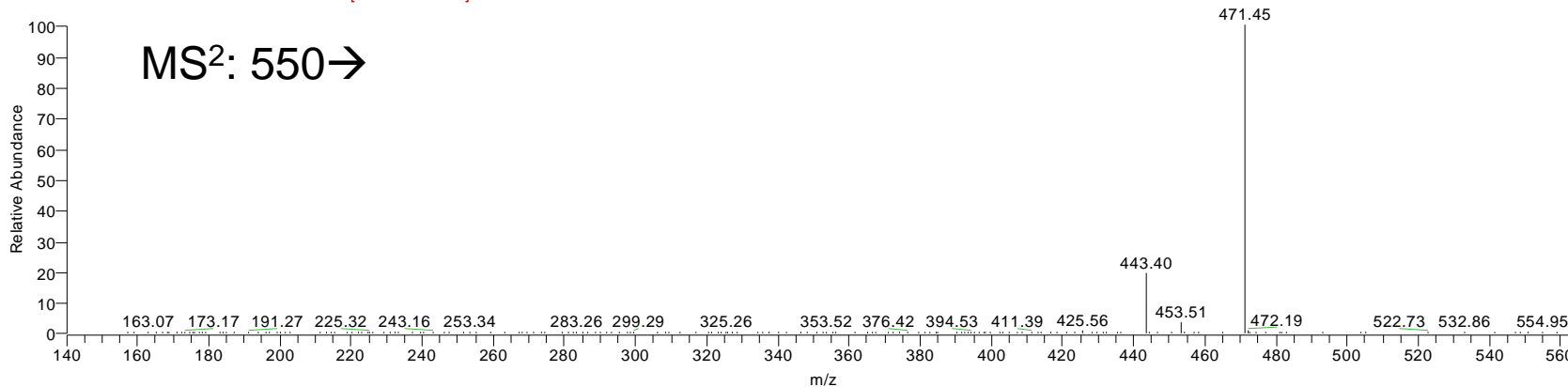


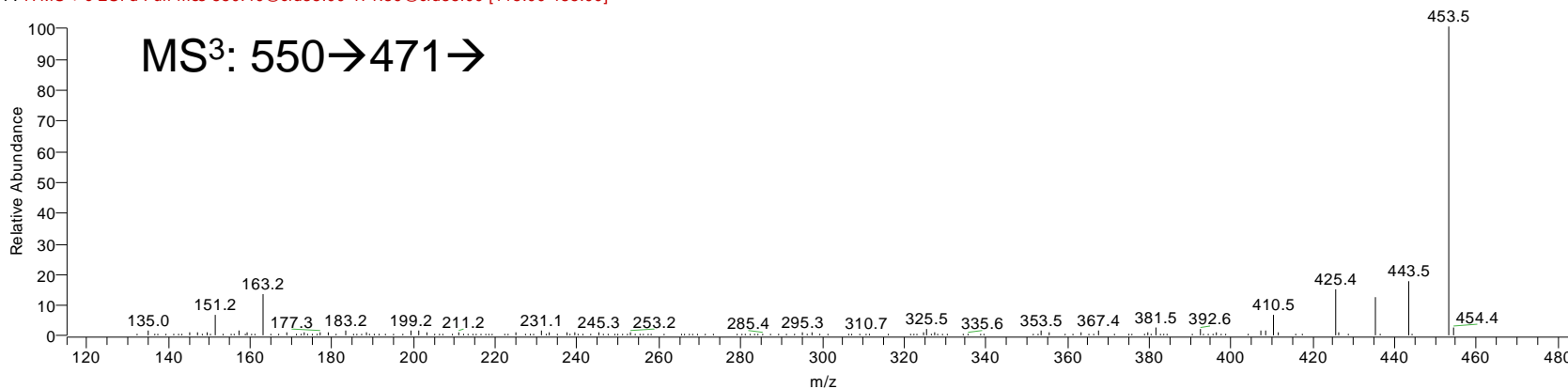
Fig. S4a1

C⁴-24,25-diol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #541 RT: 4.44 AV: 1 NL: 4.76E3
F: ITMS + c ESI d Full ms3 550.40@cid35.00 471.39@cid35.00 [115.00-485.00]



sample_39 #468 RT: 4.72 AV: 1 NL: 1.88E4
F: ITMS + c ESI d Full ms3 550.40@cid30.00 471.47@cid35.00 [115.00-485.00]

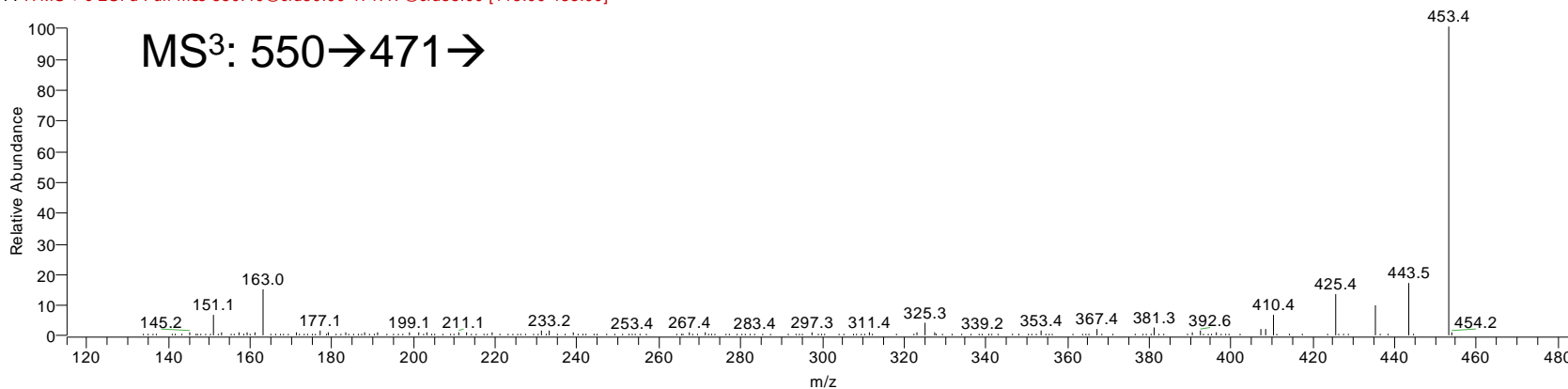


Fig. S4am

C⁴-24,27-diol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #589 RT: 4.84 AV: 1 NL: 1.08E4
F: ITMS + c ESI d Full ms2 550.40@cid35.00 [140.00-565.00]

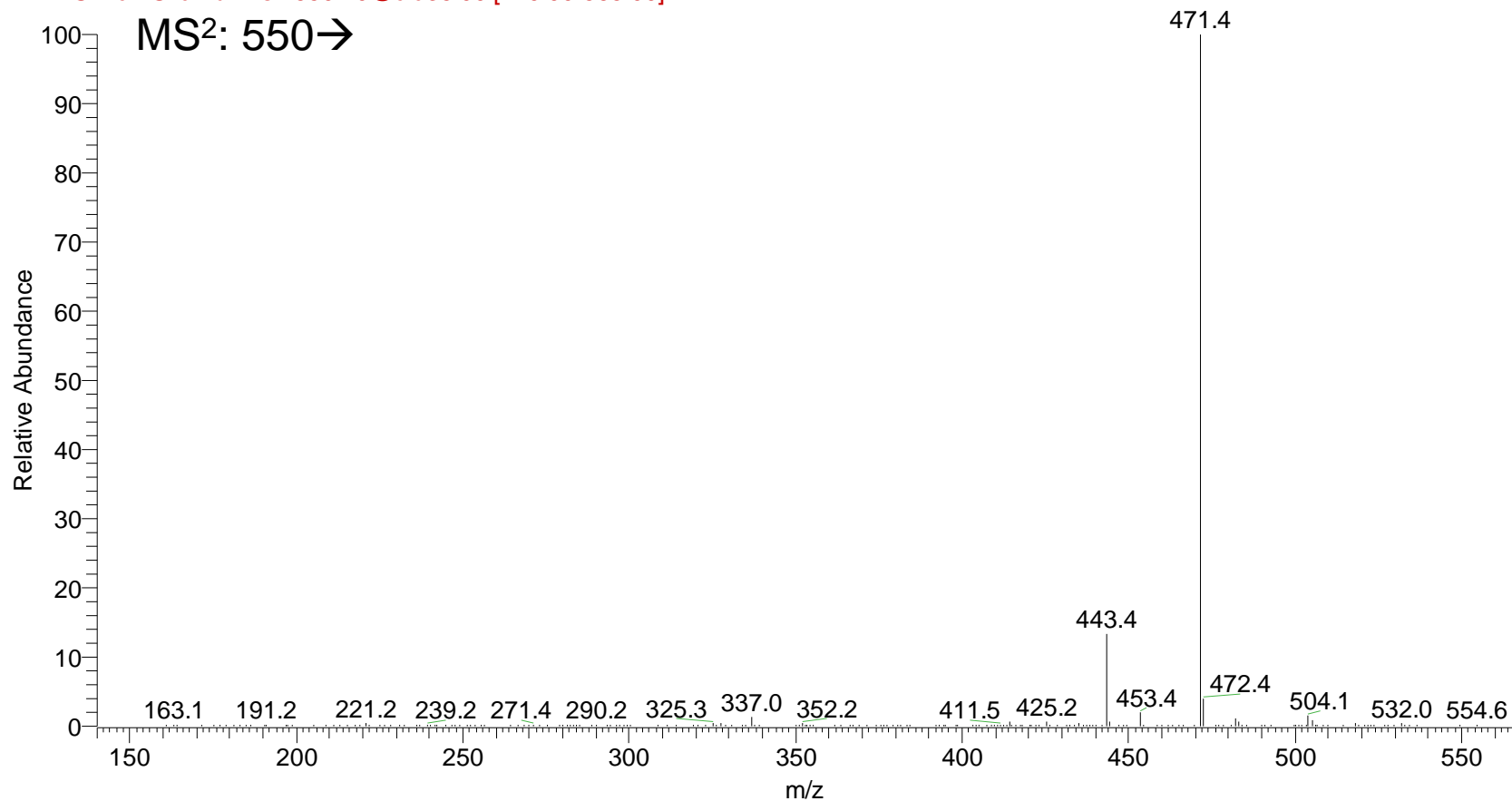


Fig. S4an

C⁴-24,27-diol-3-one 3-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #590 RT: 4.84 AV: 1 NL: 1.03E3

F: ITMS + c ESI d Full ms3 550.40@cid35.00 471.39@cid35.00 [115.00-485.00]

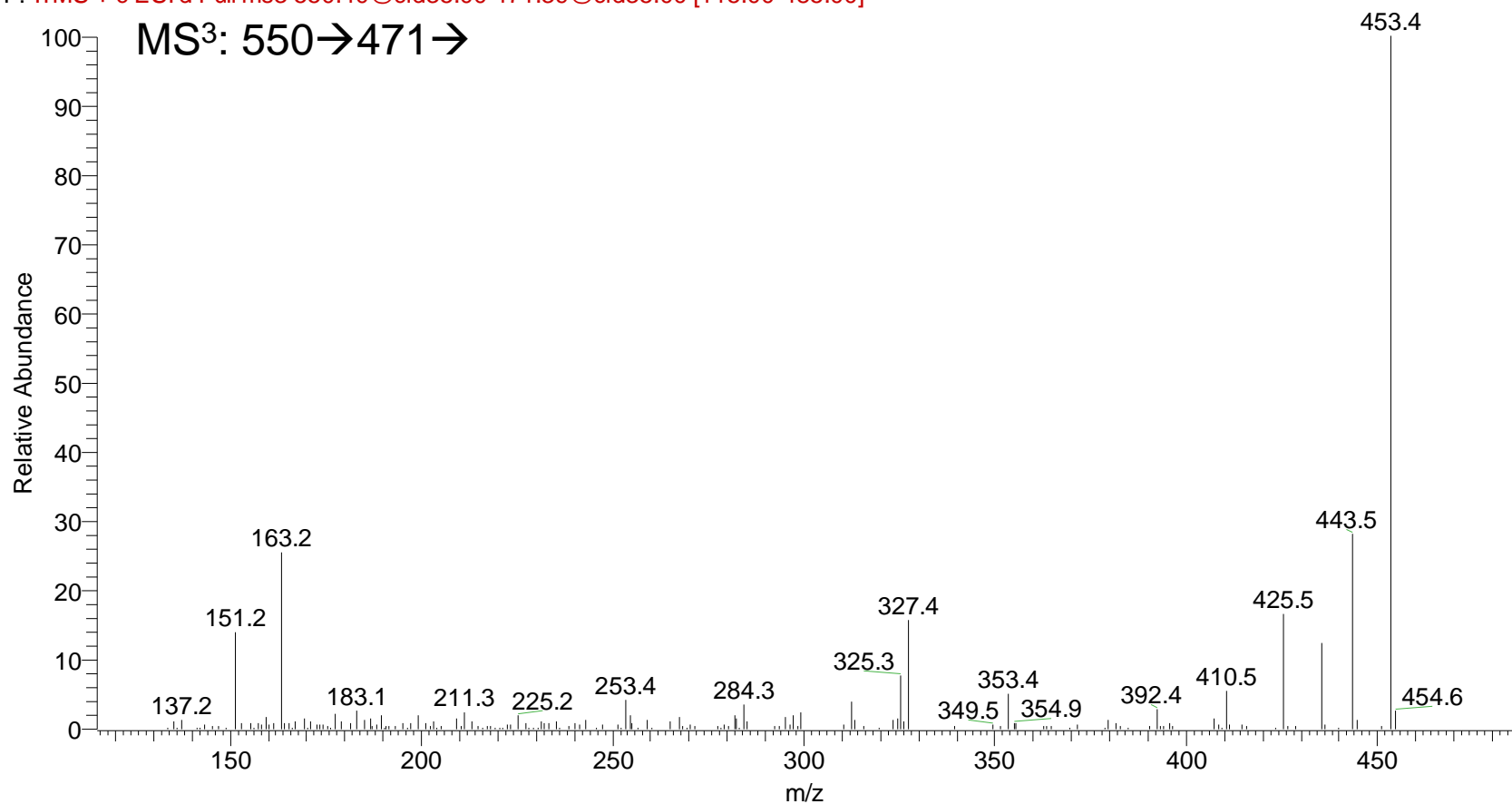


Fig. S4ao

C-x-ol-y,z-dione y-GP / C^x-x,y-diol-z-one z-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1112 RT: 9.09 AV: 1 NL: 2.98E3
F: ITMS + c ESI d Full ms2 550.40@cid35.00 [140.00-565.00]

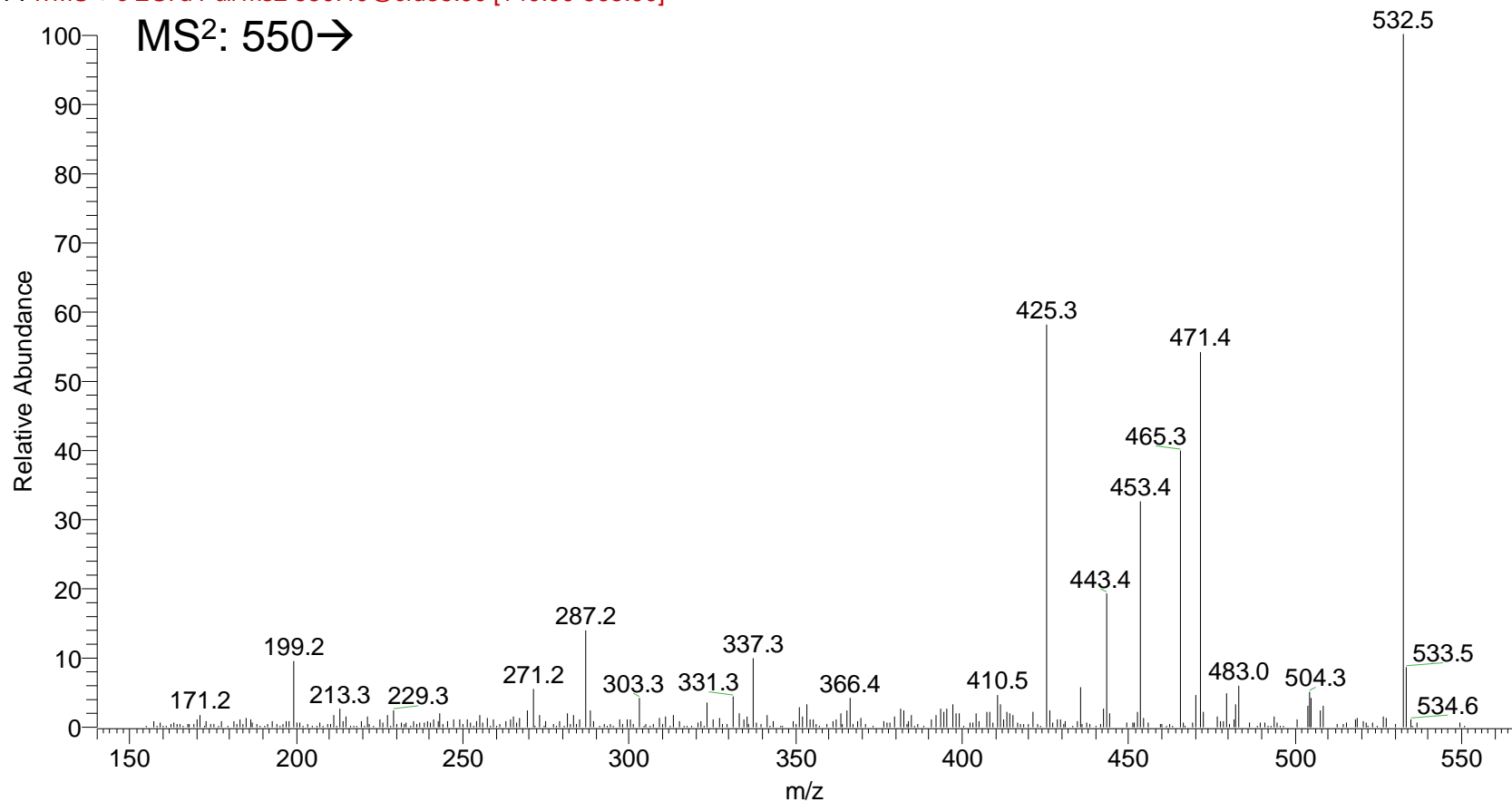


Fig. S4ap

C-x-ol-y,z-dione y-GP / C^x-x,y-diol-z-one z-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1113 RT: 9.10 AV: 1 NL: 1.33E2

F: ITMS + c ESI d Full ms3 550.40@cid35.00 471.39@cid35.00 [115.00-485.00]

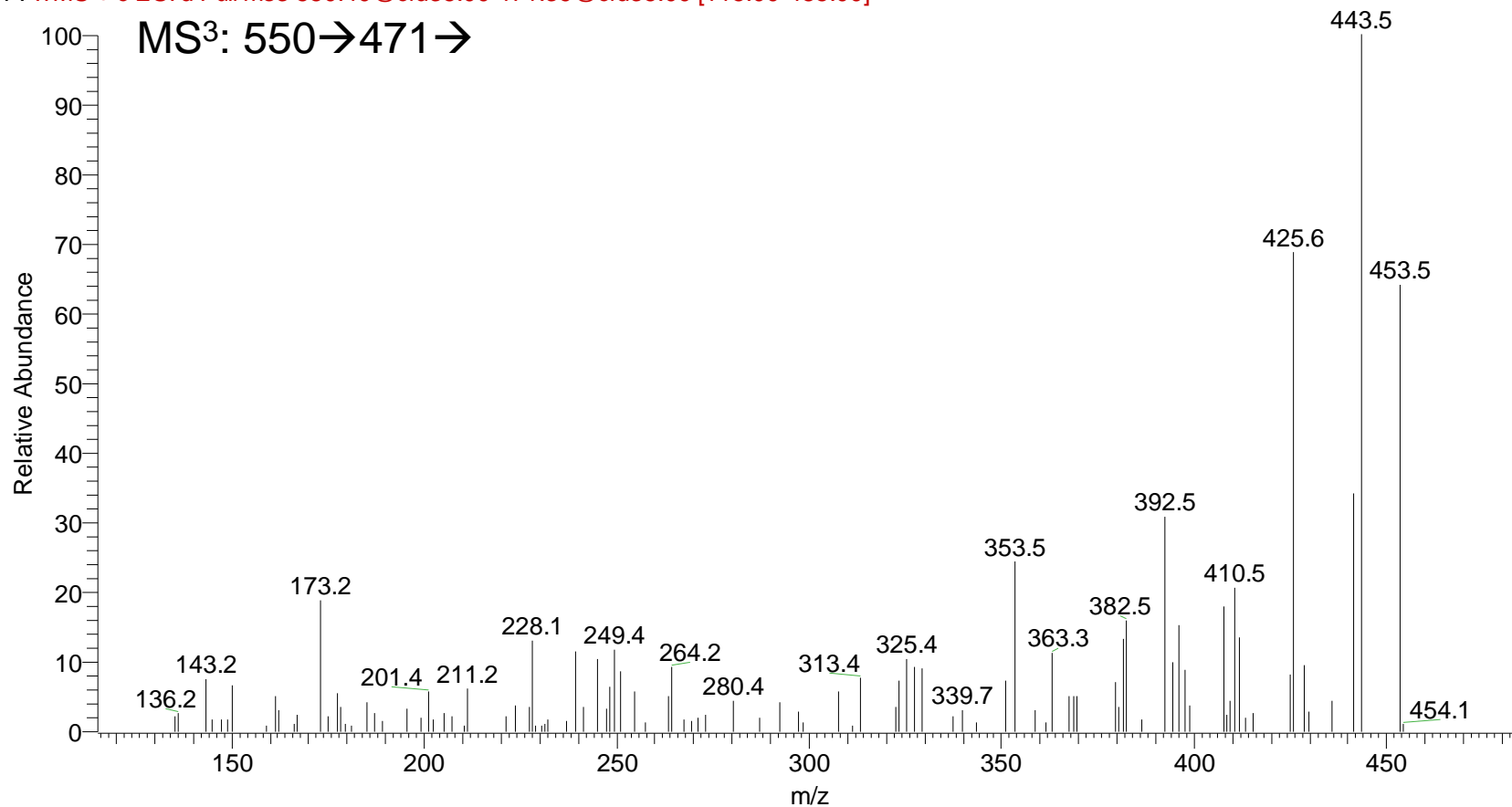


Fig. S4aq

C-x,y-diol-z-one z-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1161 RT: 9.47 AV: 1 NL: 3.58E3
F: ITMS + c ESI d Full ms2 552.41 @cid35.00 [140.00-565.00]

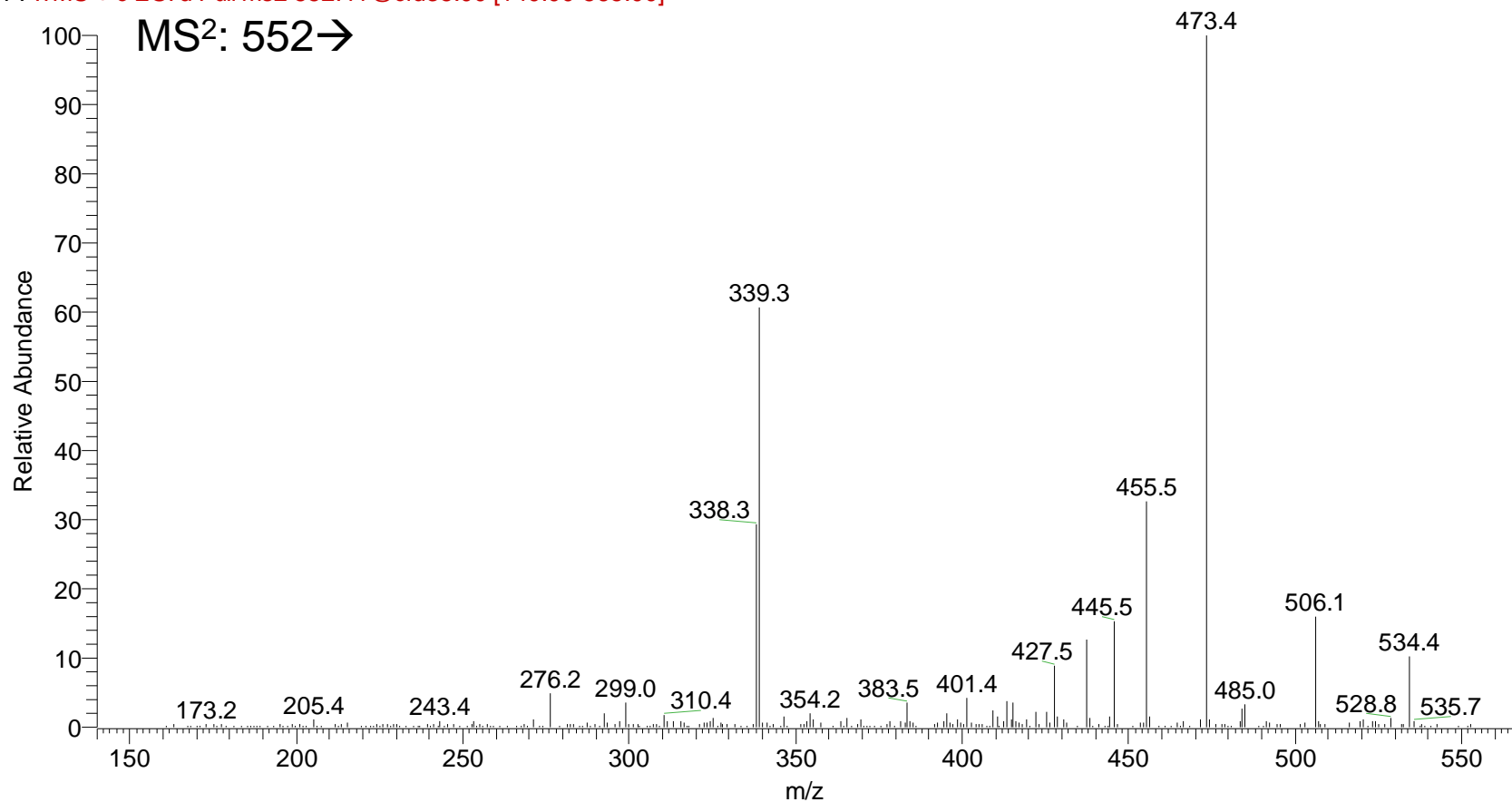


Fig. S4ar

C-x,y-diol-z-one z-GP

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1162 RT: 9.48 AV: 1 NL: 5.63E2

F: ITMS + c ESI d Full ms3 552.41@cid35.00 473.44@cid35.00 [120.00-485.00]

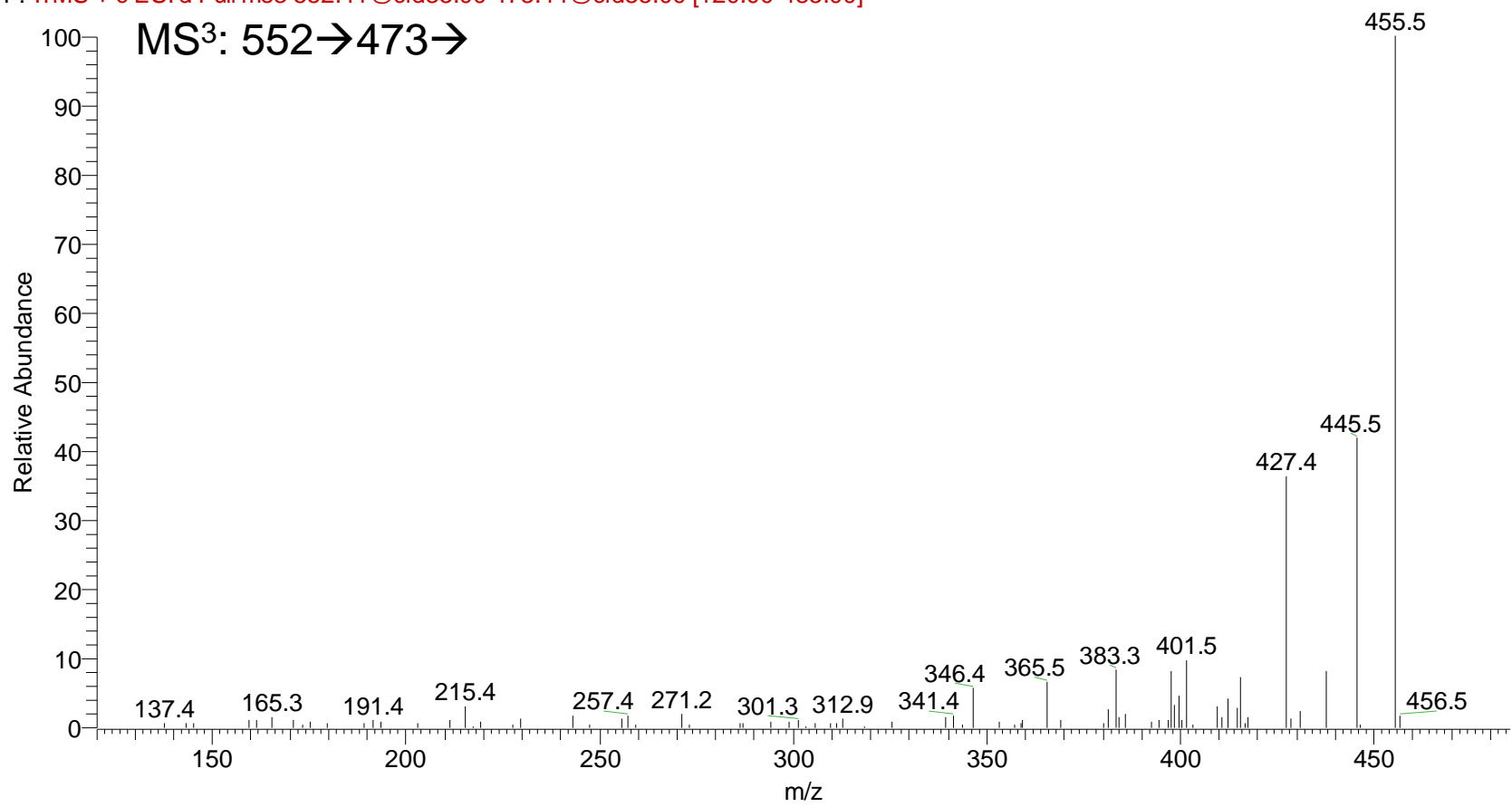


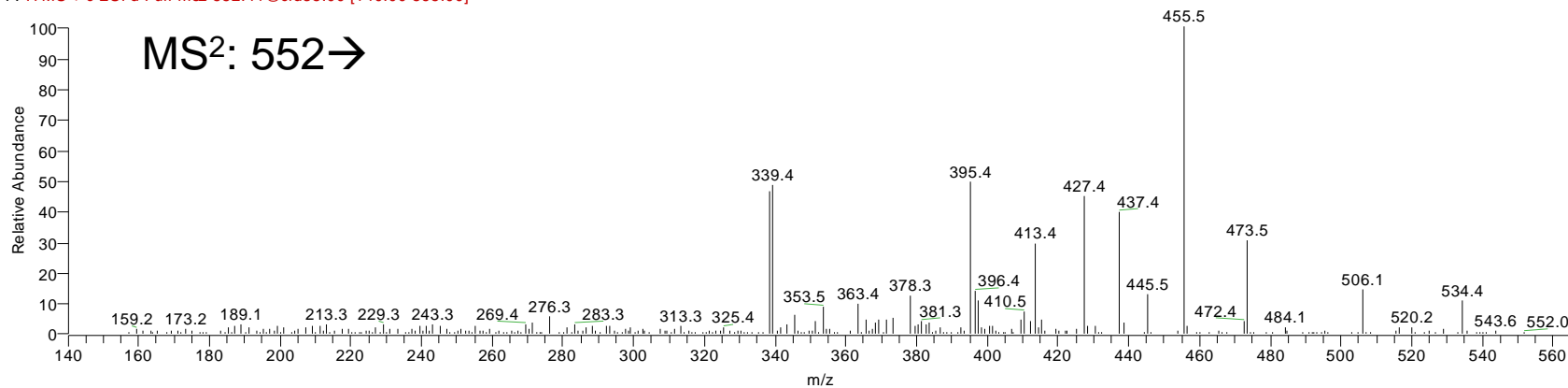
Fig. S4as

aldol

CTX_UFR2_FR1_2

30/06/2006 18:49:40

CTX_UFR2_FR1_2 #1181 RT: 9.62 AV: 1 NL: 5.46E3
F: ITMS + c ESI d Full ms2 552.41@cid35.00 [140.00-565.00]



esi_std28 #1173 RT: 9.94 AV: 1 NL: 1.61E6
F: ITMS + c ESI d Full ms2 552.41@cid30.00 [140.00-565.00]

