AR TARGET SHEET

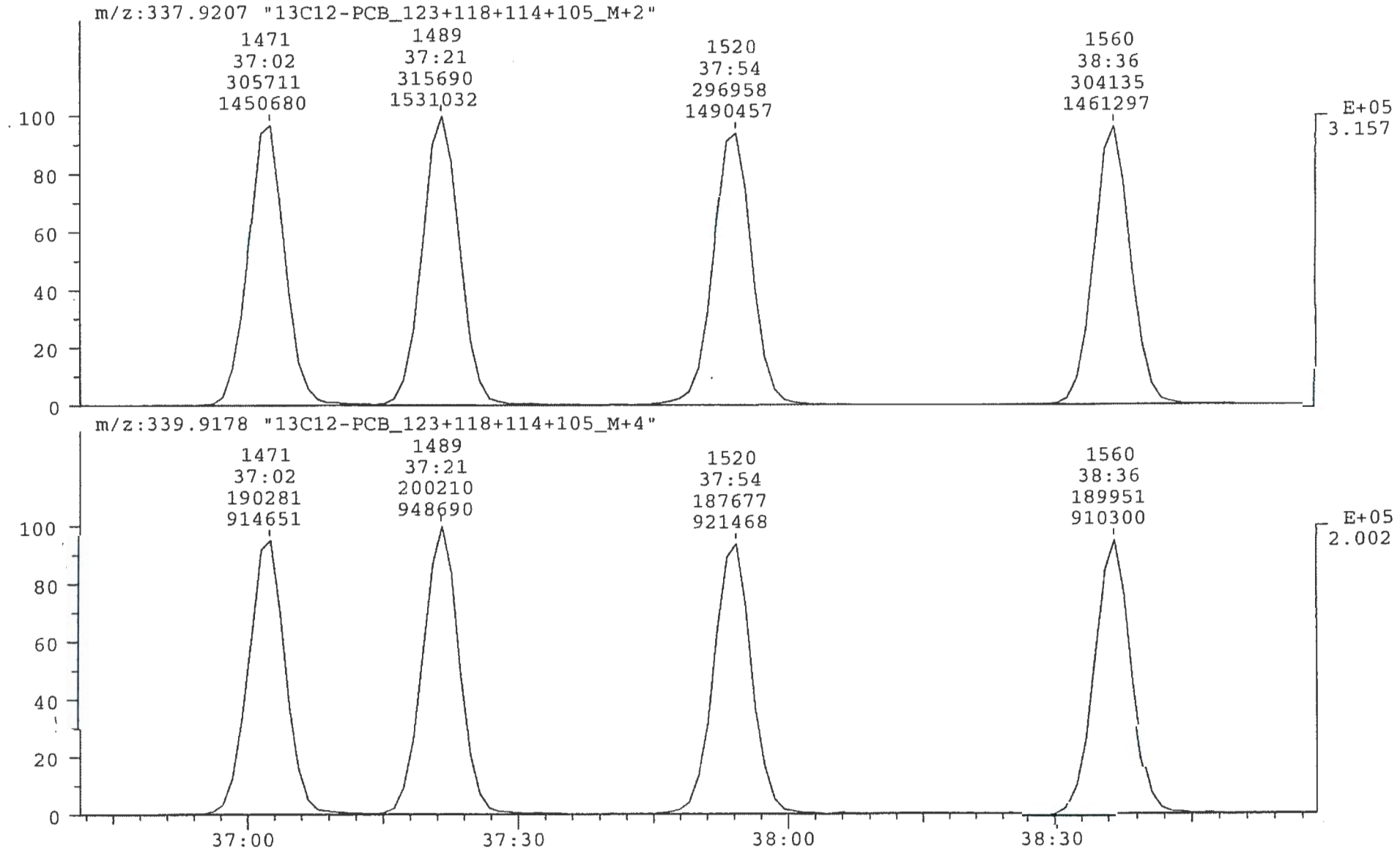
The following document was too large to scan as one unit, therefore, it has been divided into sections.

EDMC#: 0074263
SECTION: 6 OF 6

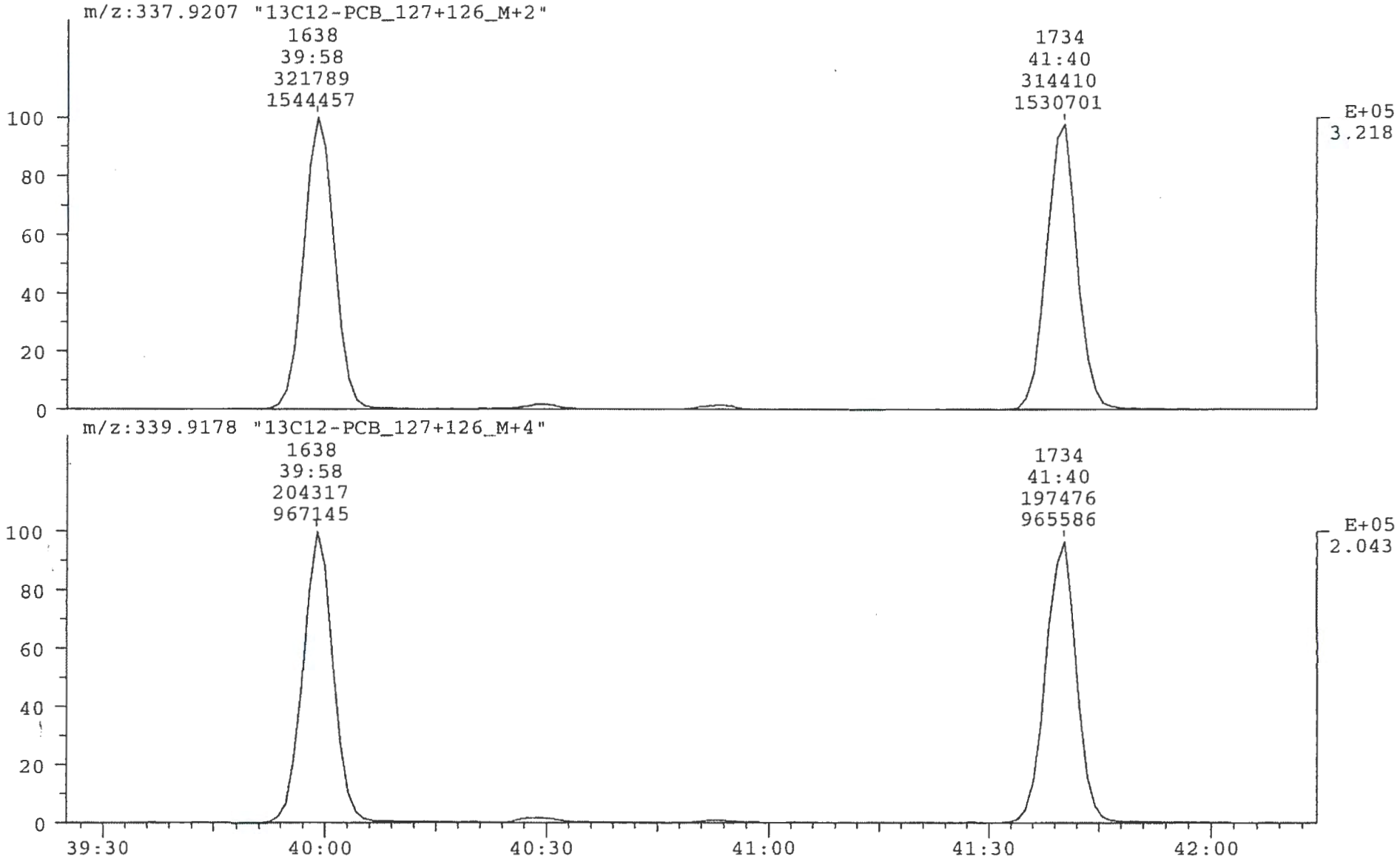
DOCUMENT #: J00140

TITLE: Administrative Record Index

```
CHRO:  a07030751                                07-Mar-07   Elapse:  37:49      1516
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1451 > 1581           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030751 07-Mar-07 Elapse: 40:49 1686
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1606 > 1766 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



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CHRO:  a07030751                                07-Mar-07   Elapse:  30:30      1104
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   844 > 1364            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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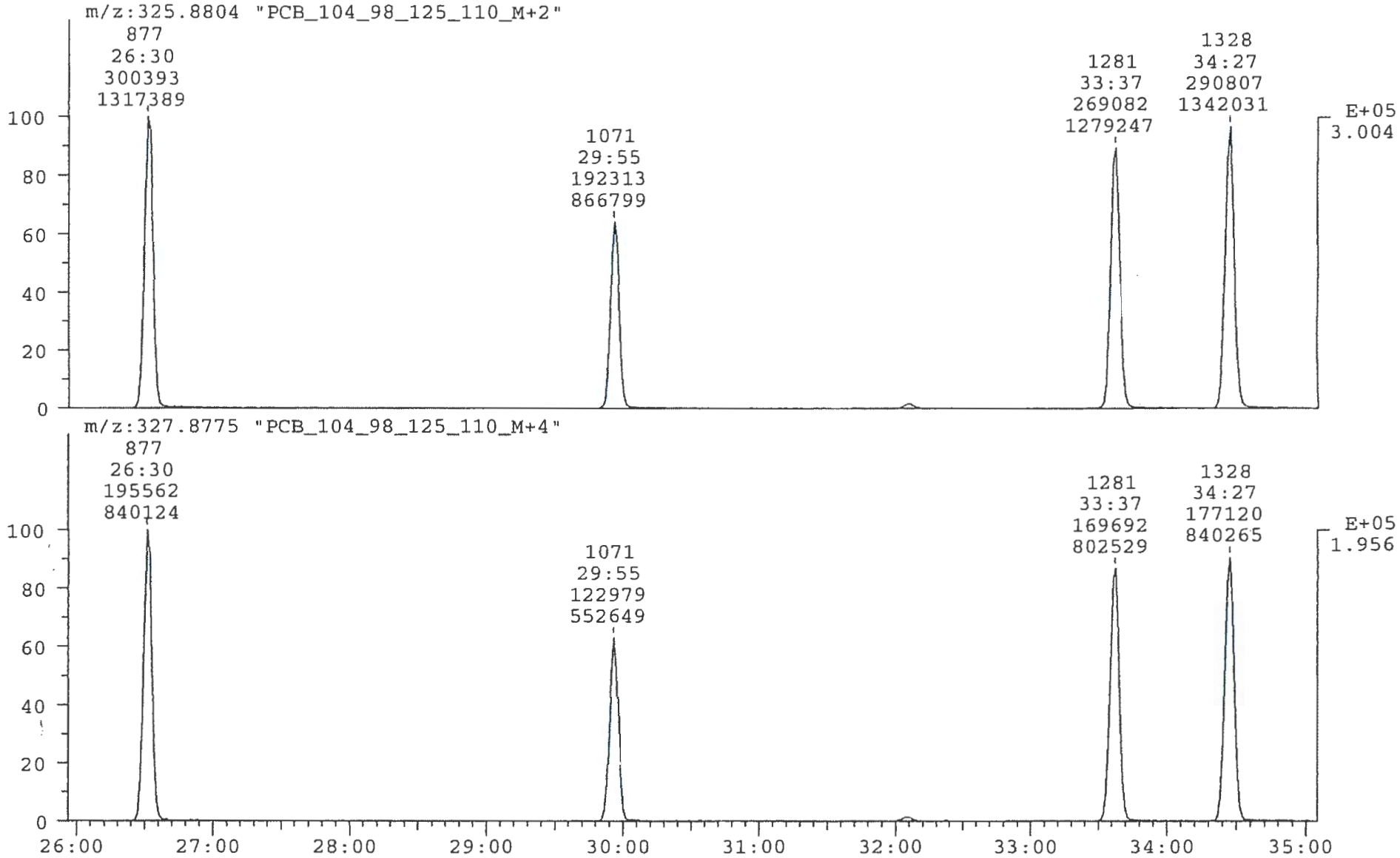

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CHRO:  a07030751                                07-Mar-07   Elapse:  41:40      1734
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1709 > 1759           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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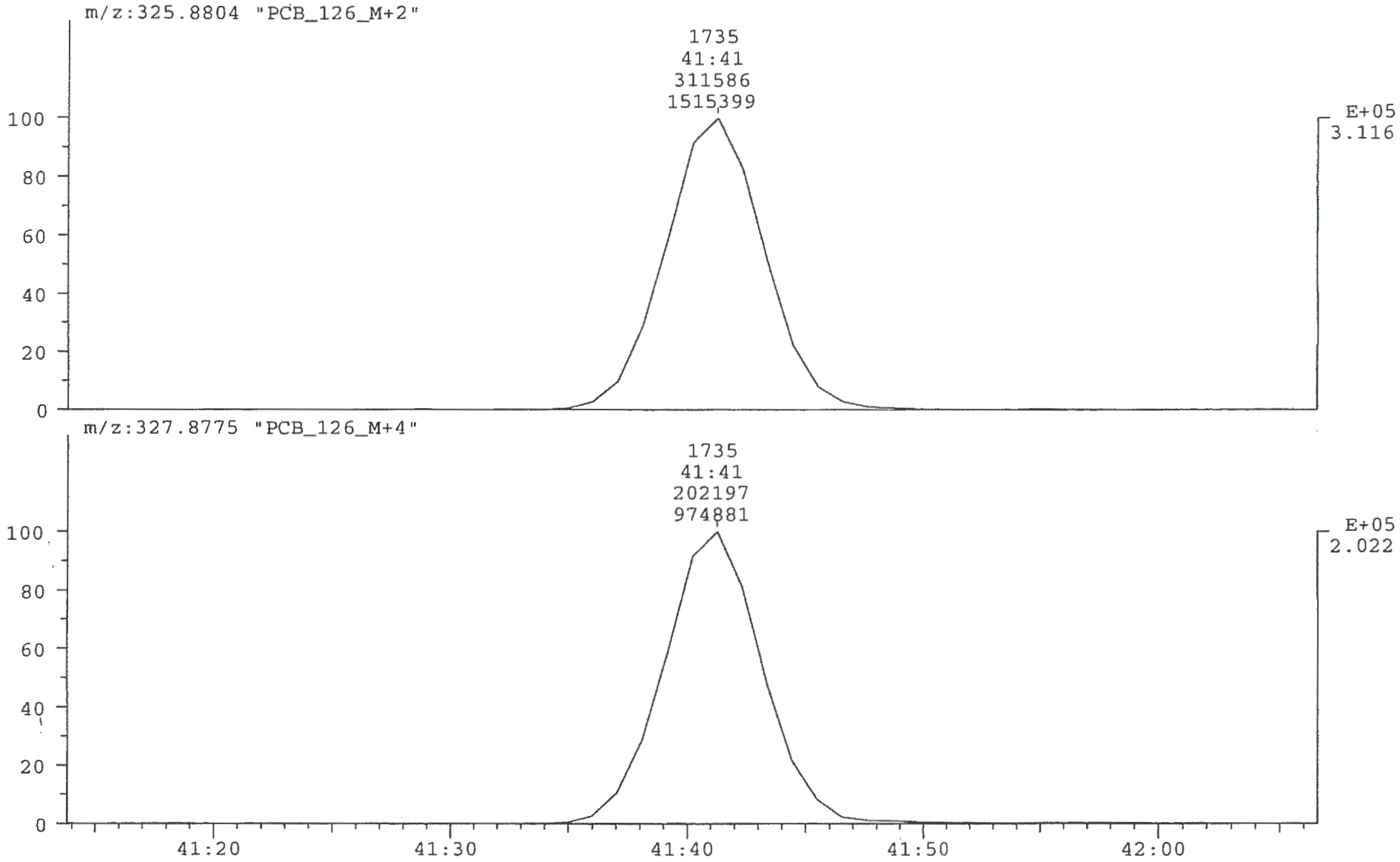

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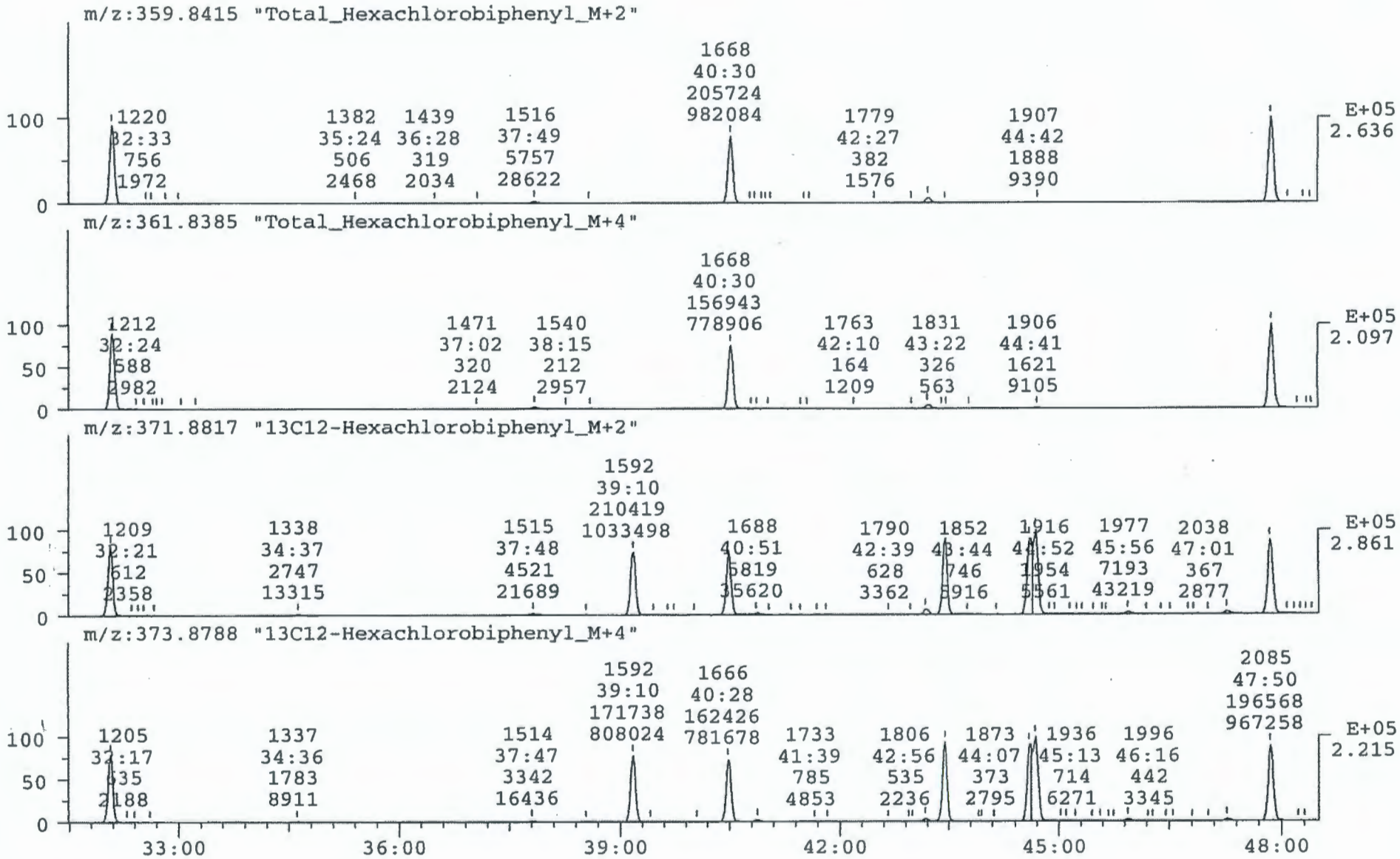
CHRO:  a07030751                                07-Mar-07   Elapse:  39:58      1638
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1159 > 2122           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



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CHRO:  a07030751                                07-Mar-07   Elapse:  32:02      1191
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1166 > 1216           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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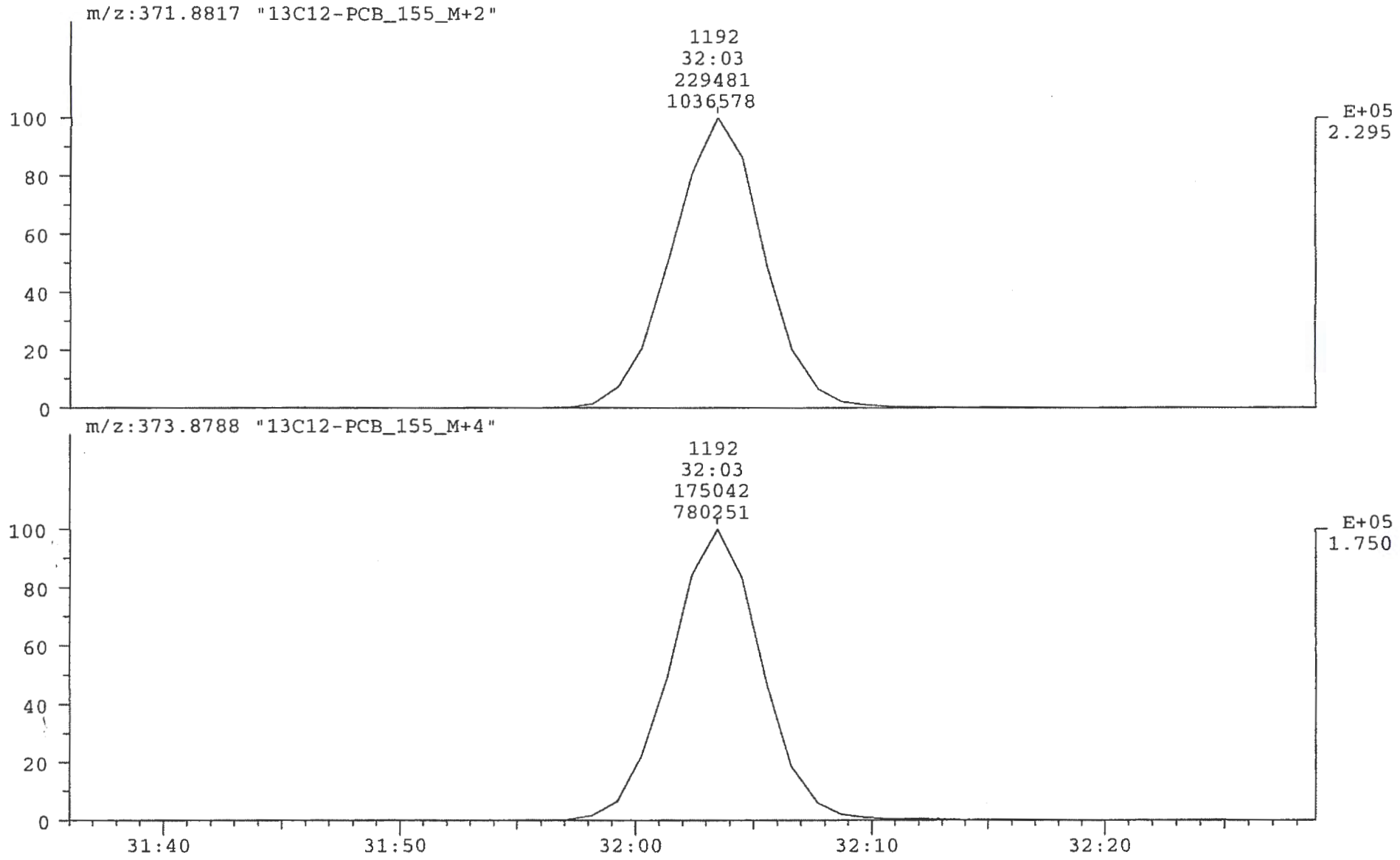

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CHRO:  a07030751                                07-Mar-07   Elapse:  39:50      1630
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1557 > 1704           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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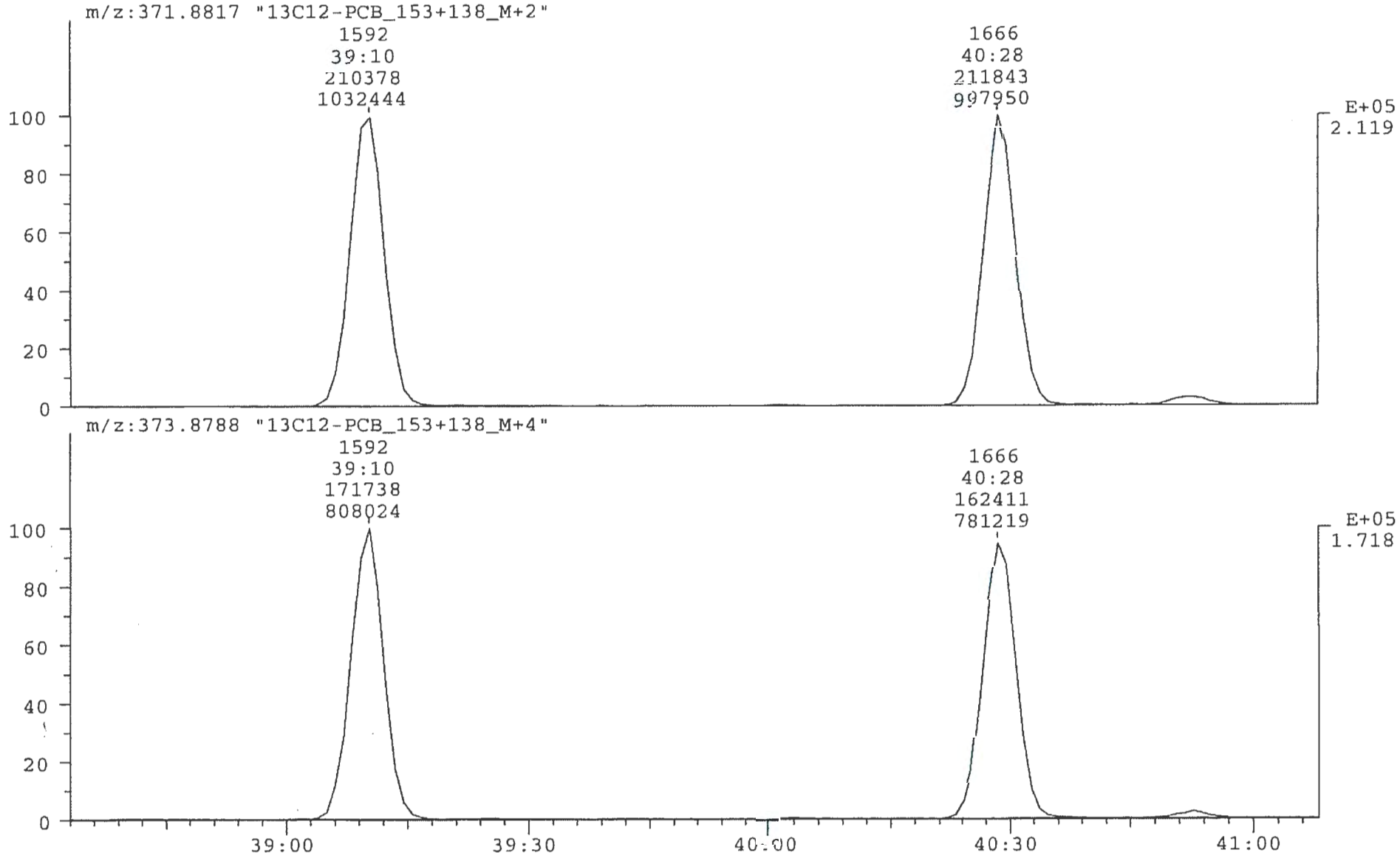
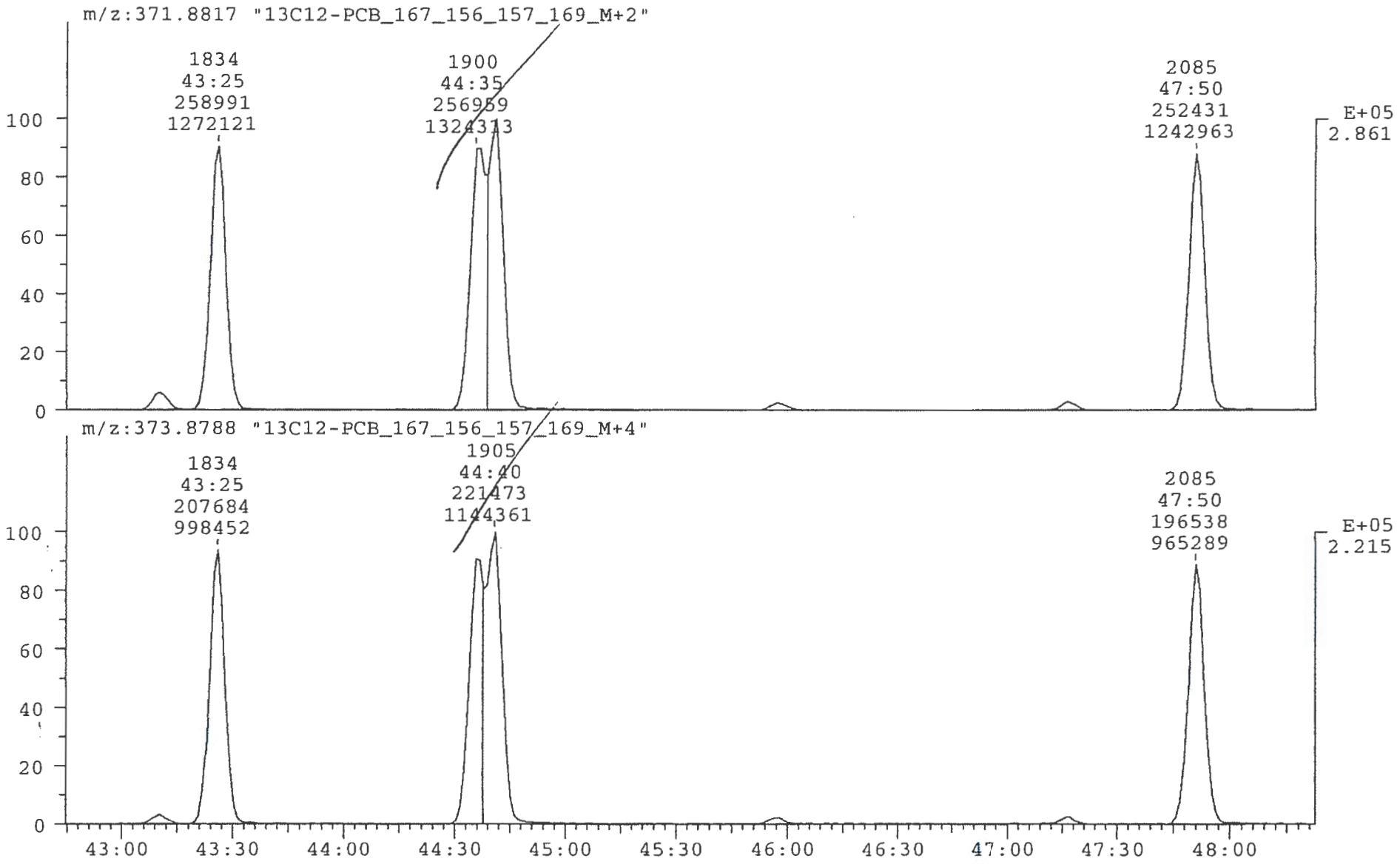
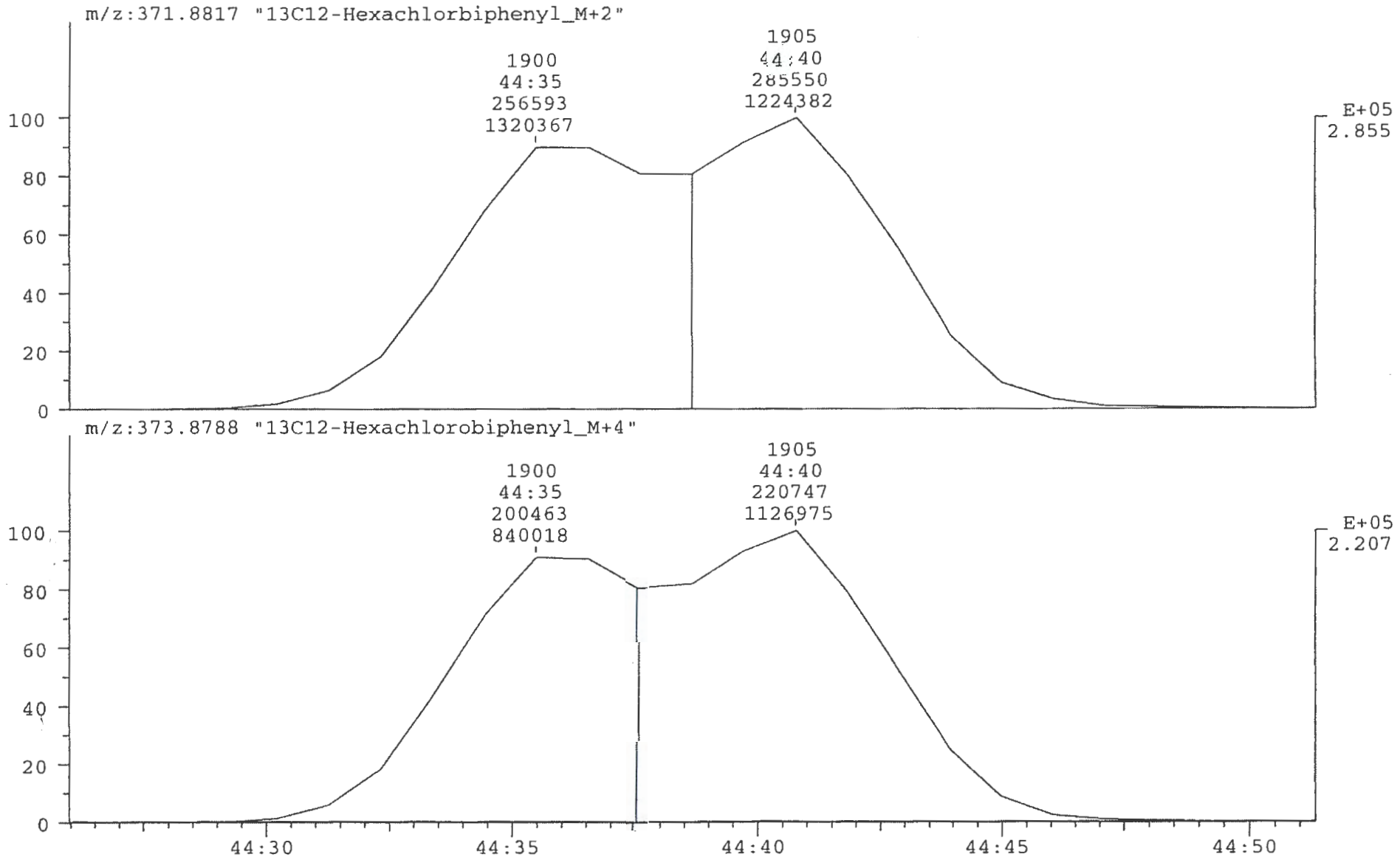


CHRO: a07030751 07-Mar-07 Elapse: 45:38 1960
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1795 > 2115 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2508

```
CHRO:  a07030751                                07-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1891 > 1915           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



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CHRO:  a07030751                                07-Mar-07   Elapse:  39:58      1638
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1108 > 2168           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```
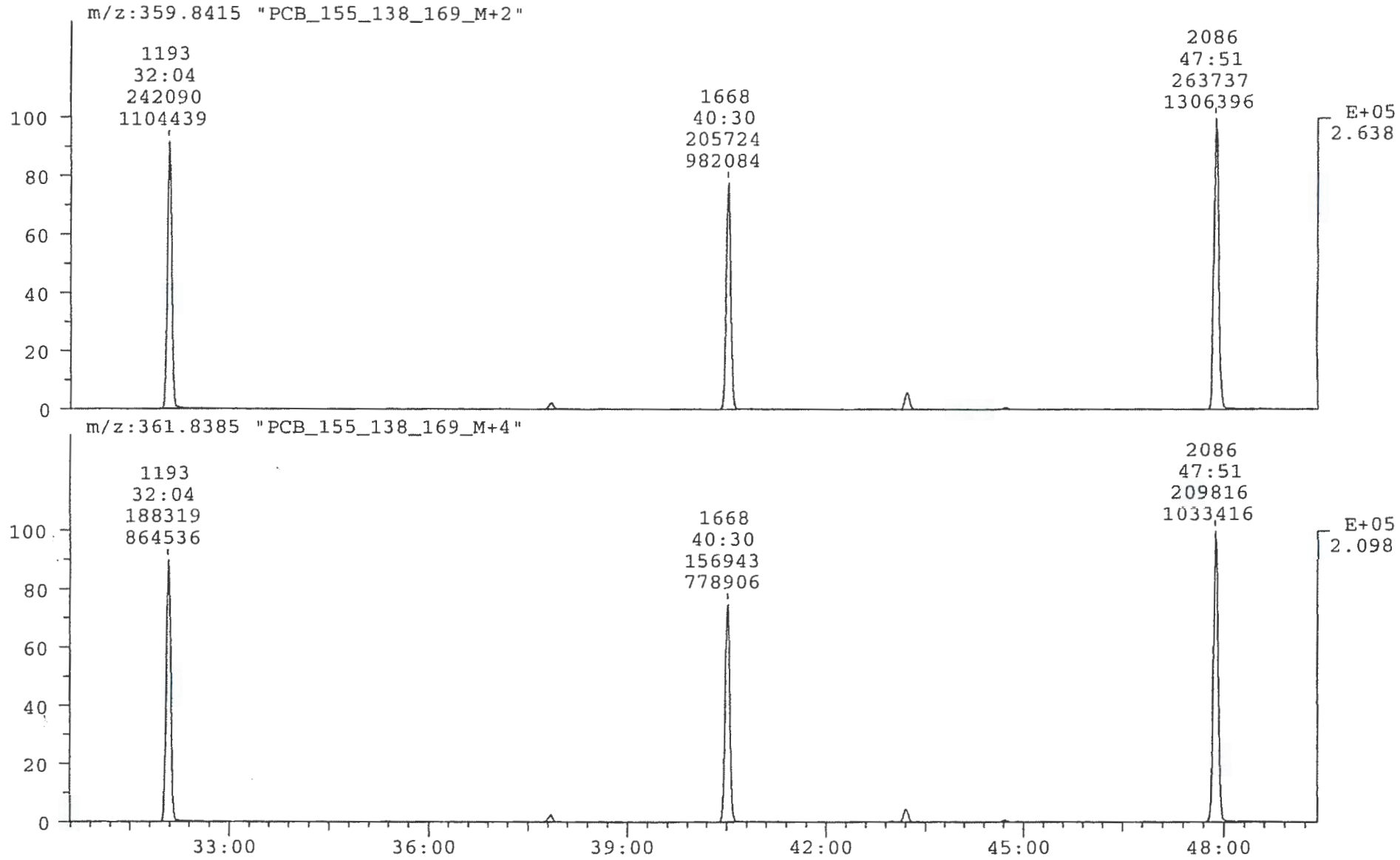
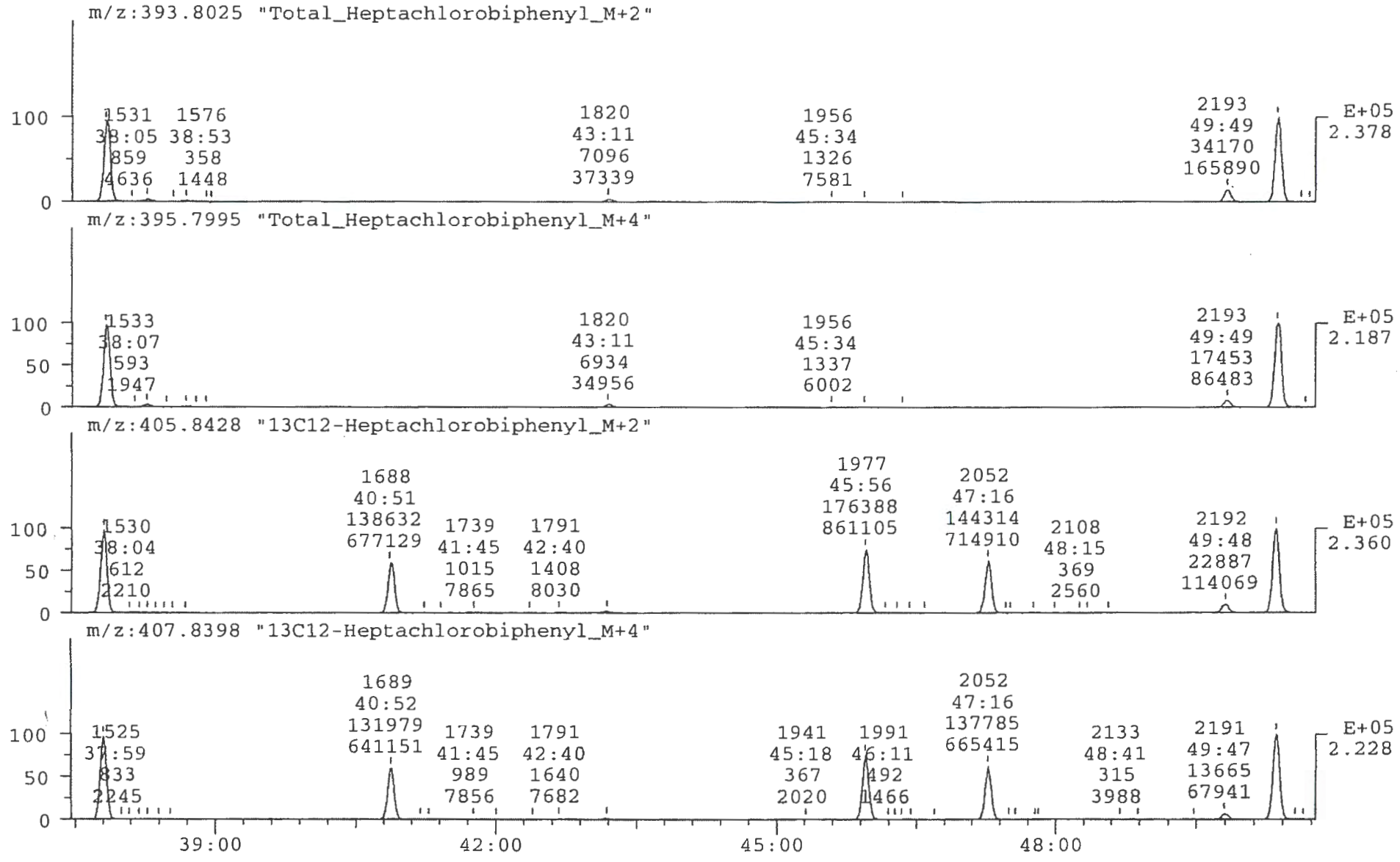
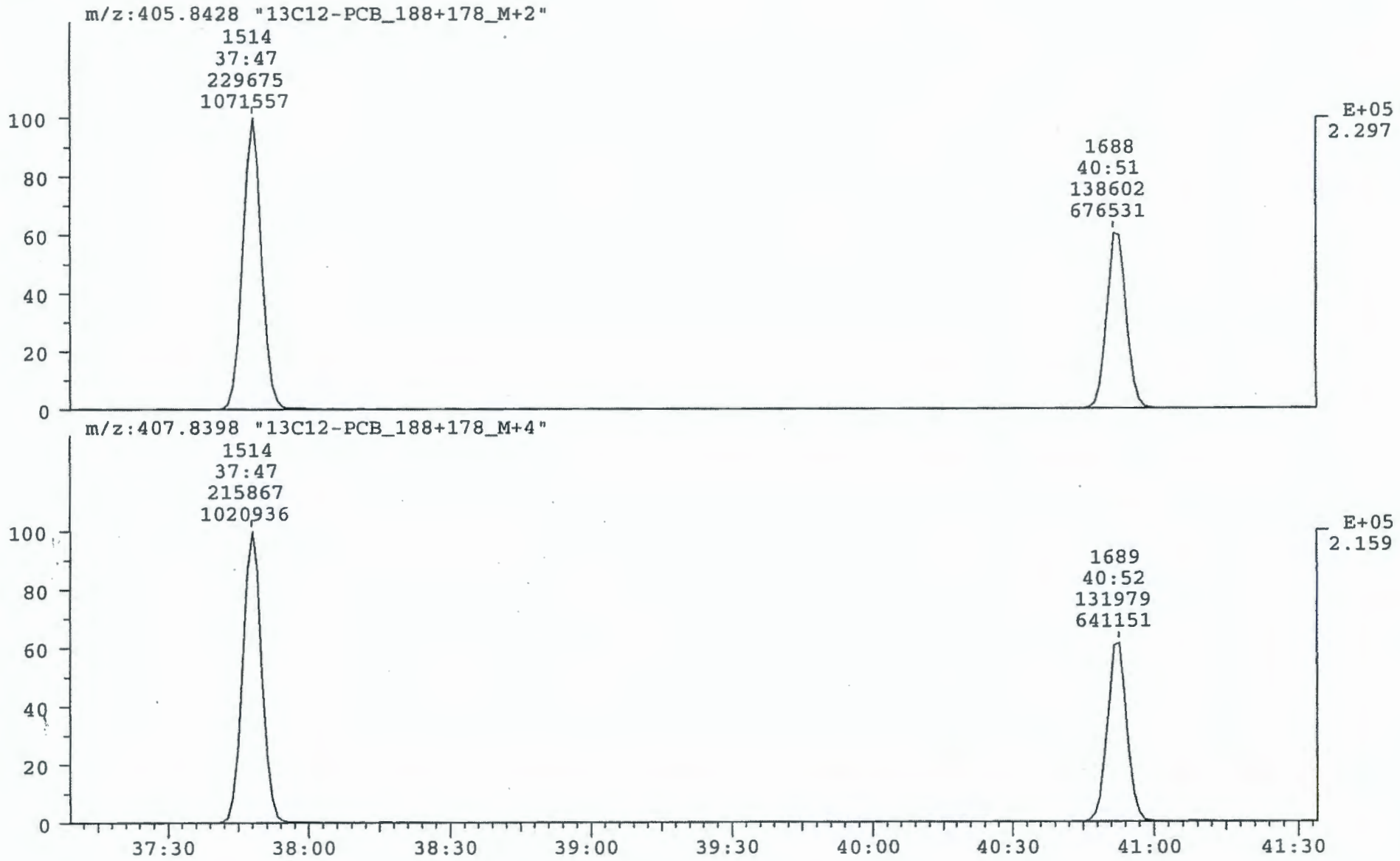



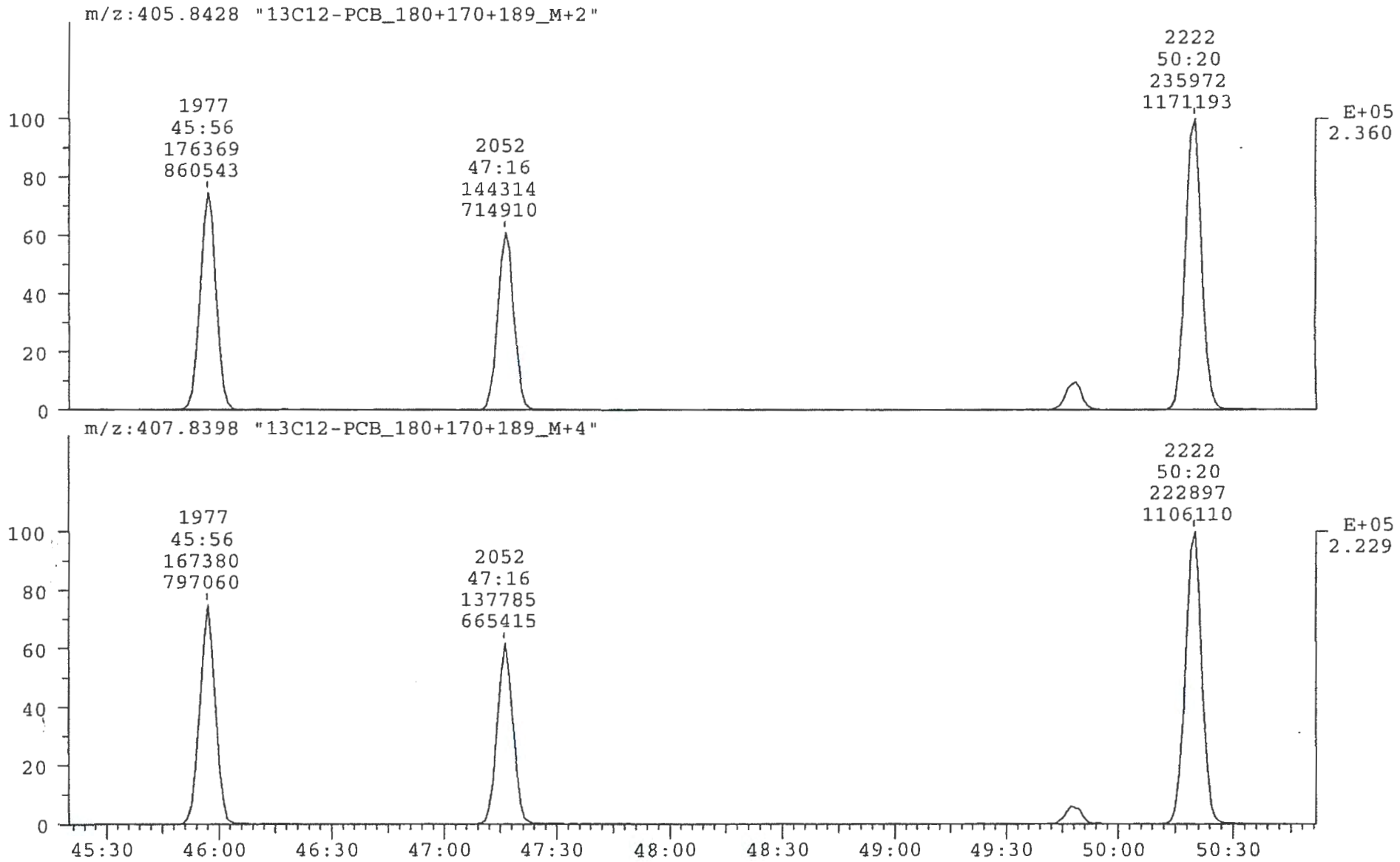
```
CHRO:  a07030751                                07-Mar-07   Elapse:  44:05      1872
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1494 > 2246           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



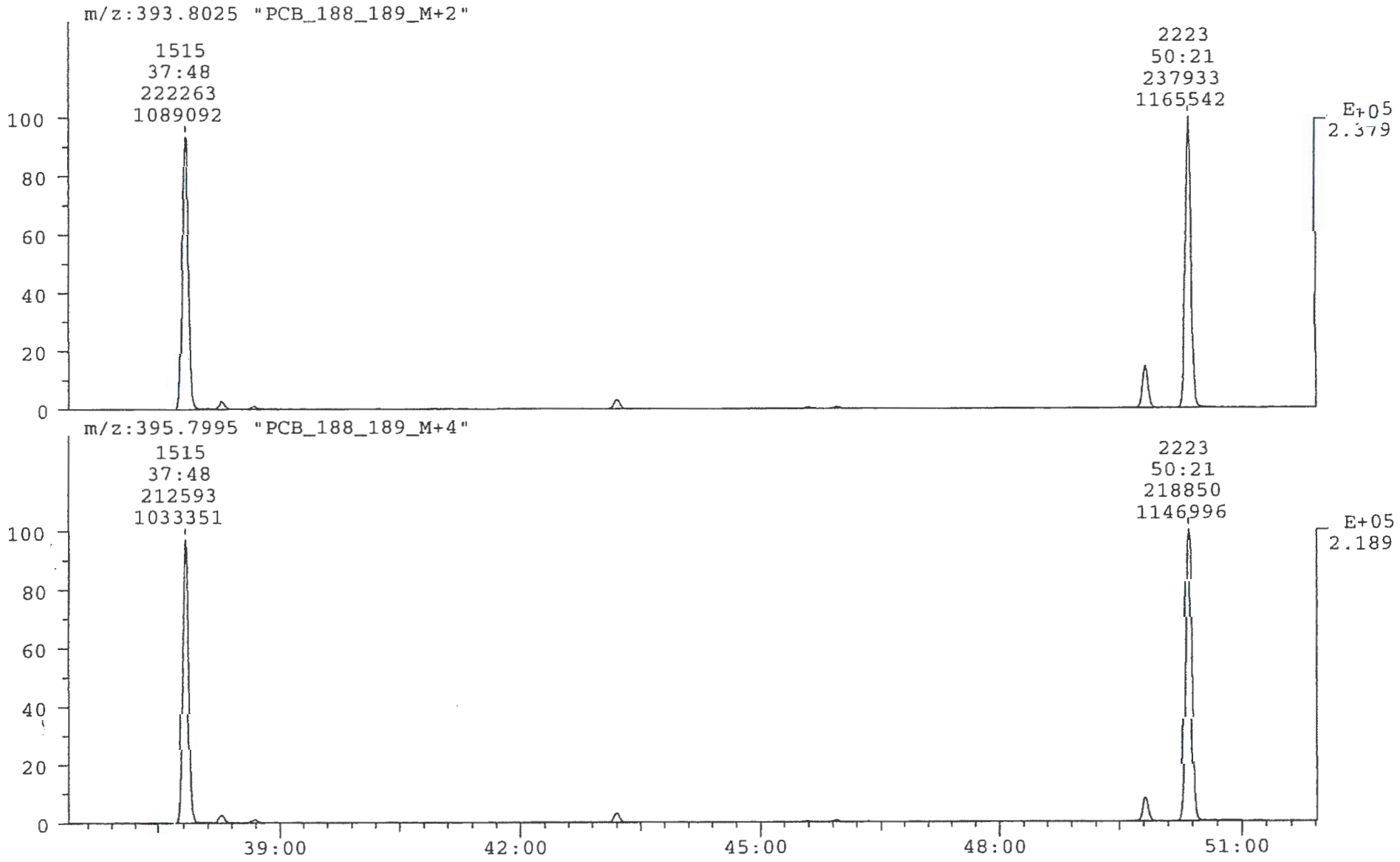
```
CHRO:  a07030751                                07-Mar-07   Elapse:  39:20      1602
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1477 > 1728           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



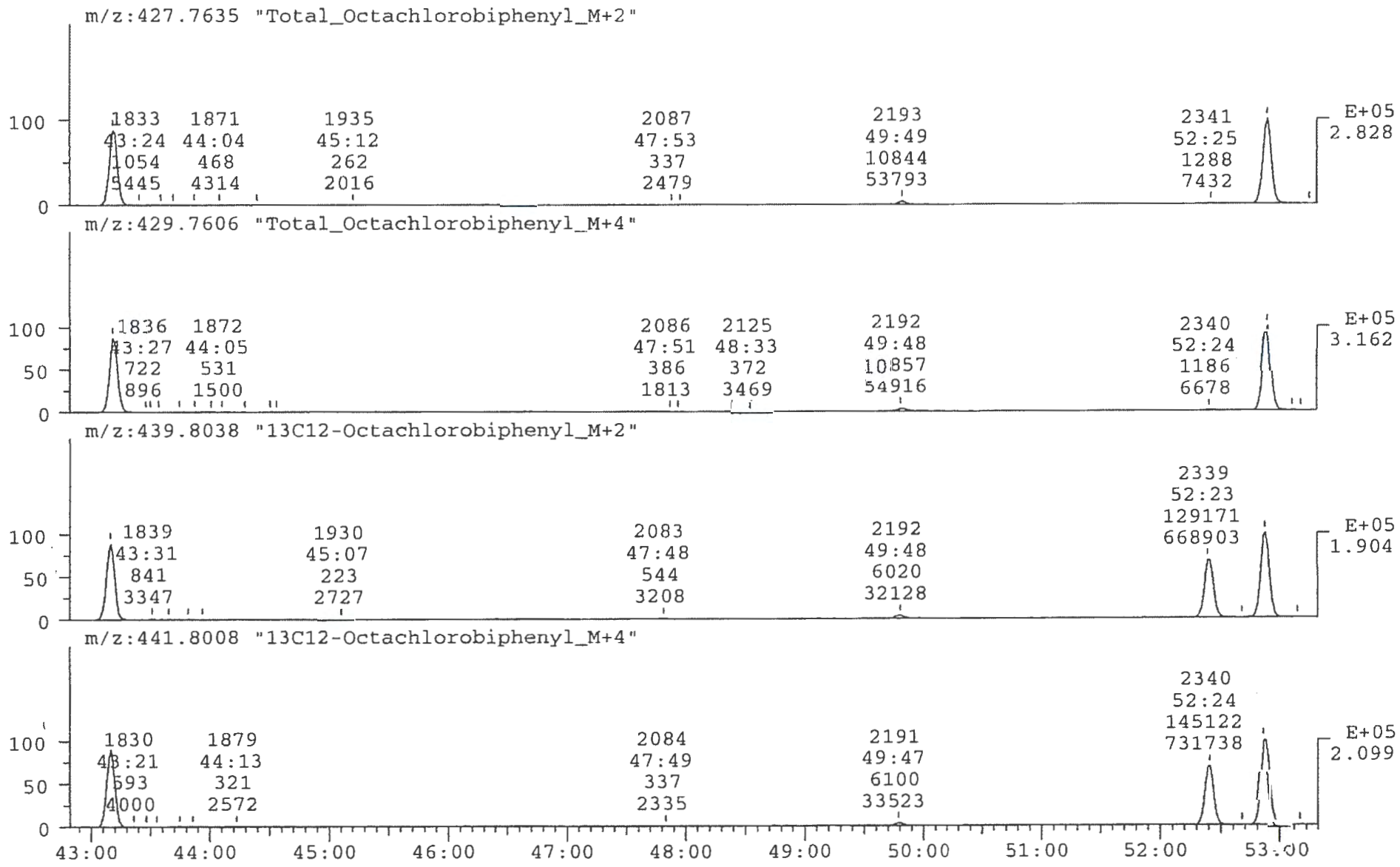
```
CHRO:  a07030751                                07-Mar-07   Elapse:  48:08      2102
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1942 > 2252           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030751 07-Mar-07 Elapse: 44:05 1872
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1432 > 2312 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030751                                07-Mar-07   Elapse:  48:02      2096
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1799 > 2391           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030751                                07-Mar-07   Elapse:  43:07      1817
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1781 > 1859           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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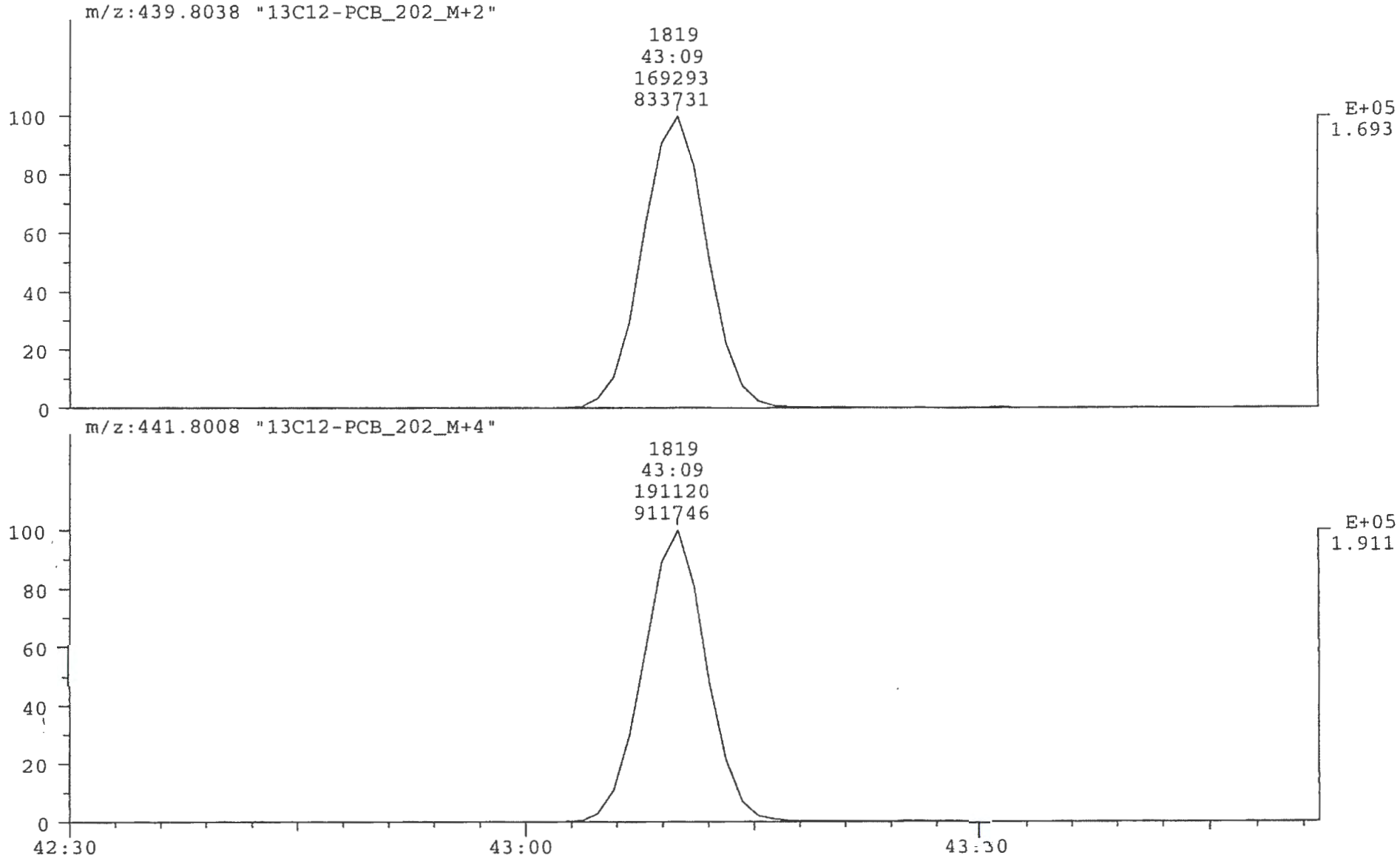

```
CHRO:  a07030751                                07-Mar-07   Elapse:  52:39      2354
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2320 > 2389           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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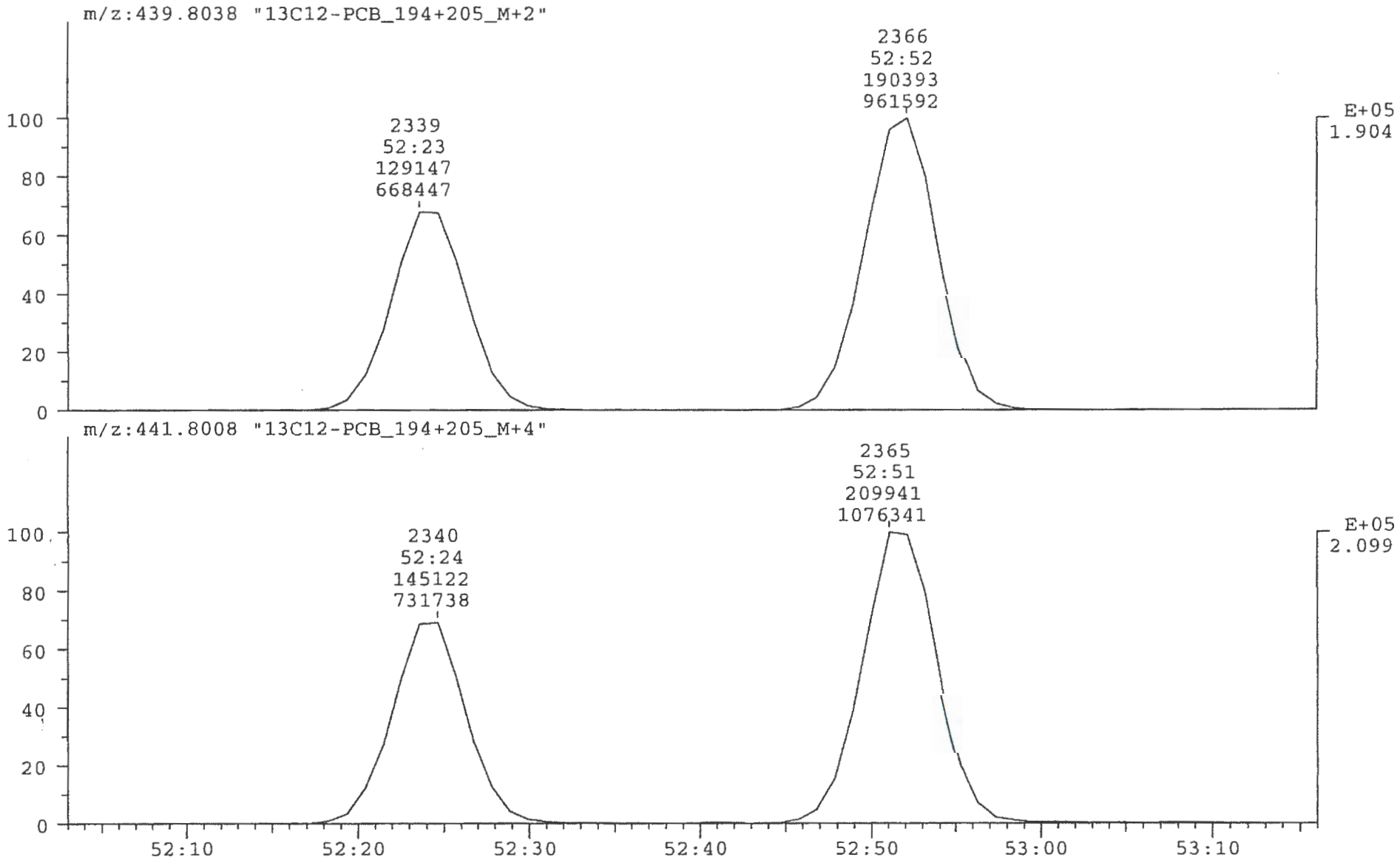

```
CHRO:  a07030751                                07-Mar-07   Elapse:  48:02      2096
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1746 > 2446           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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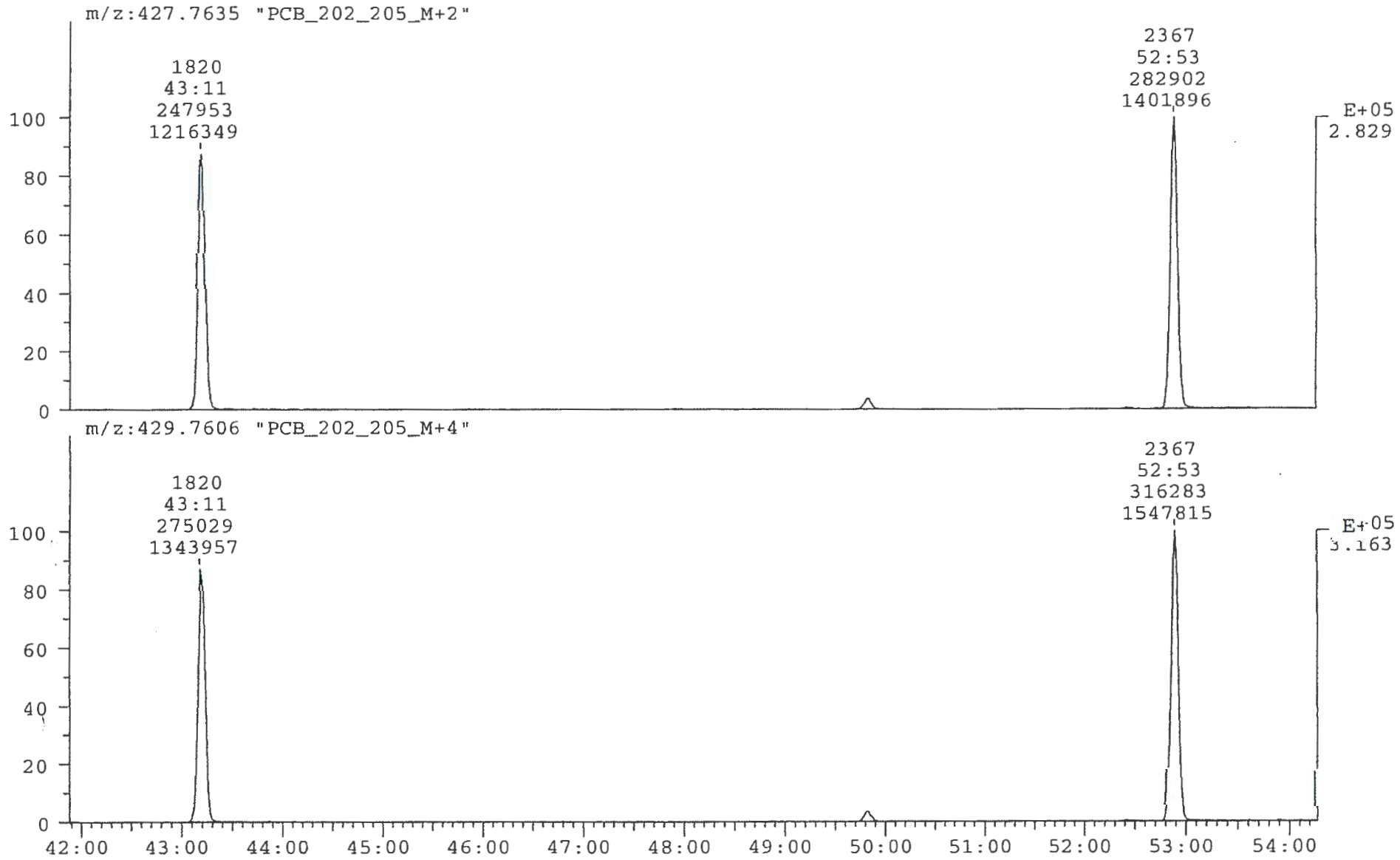

2518

```
CHRO:  a07030751                                07-Mar-07   Elapse:  52:13      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2172 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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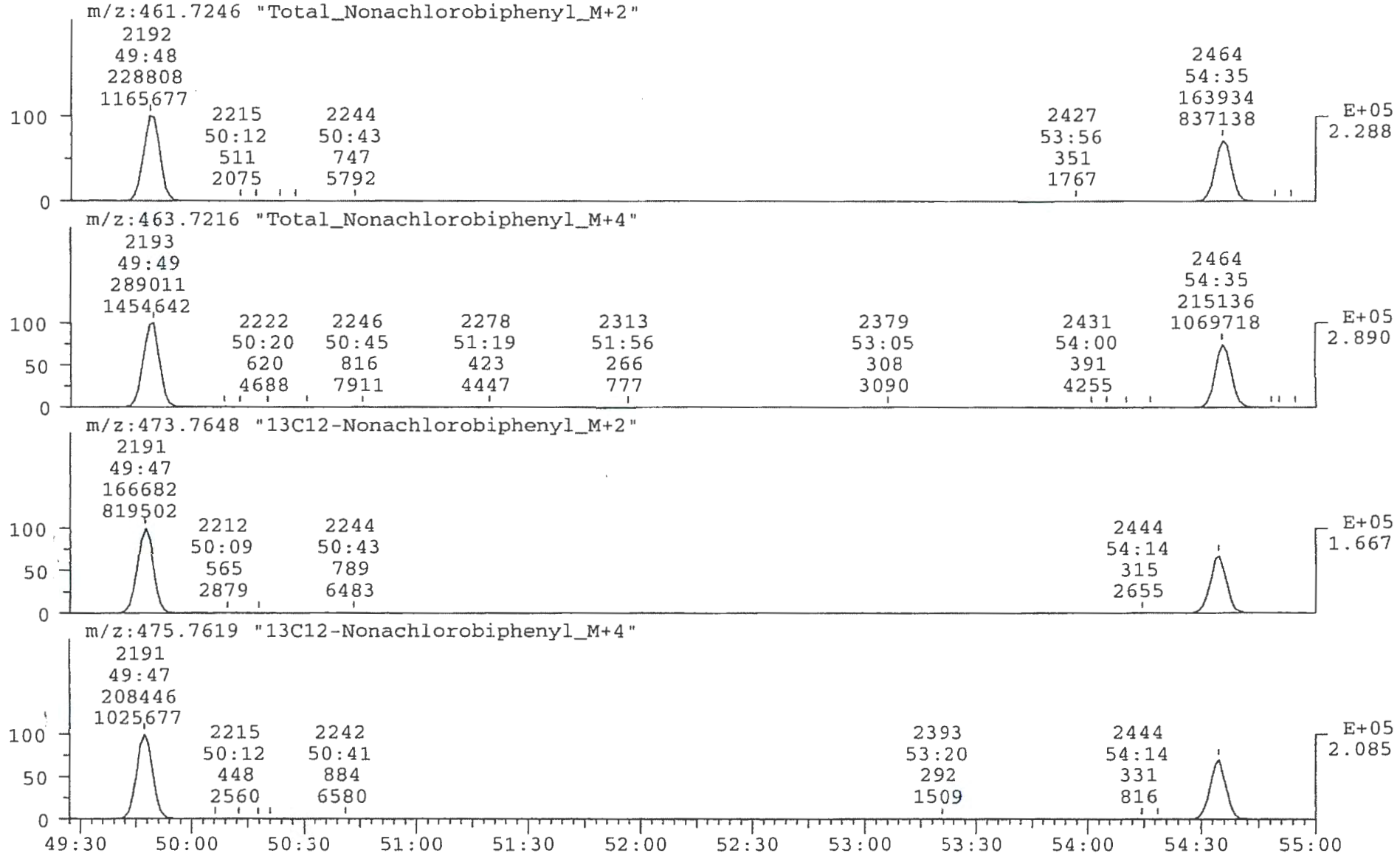

```
CHRO:  a07030751                                07-Mar-07   Elapse:  52:11      2328
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2163 > 2493           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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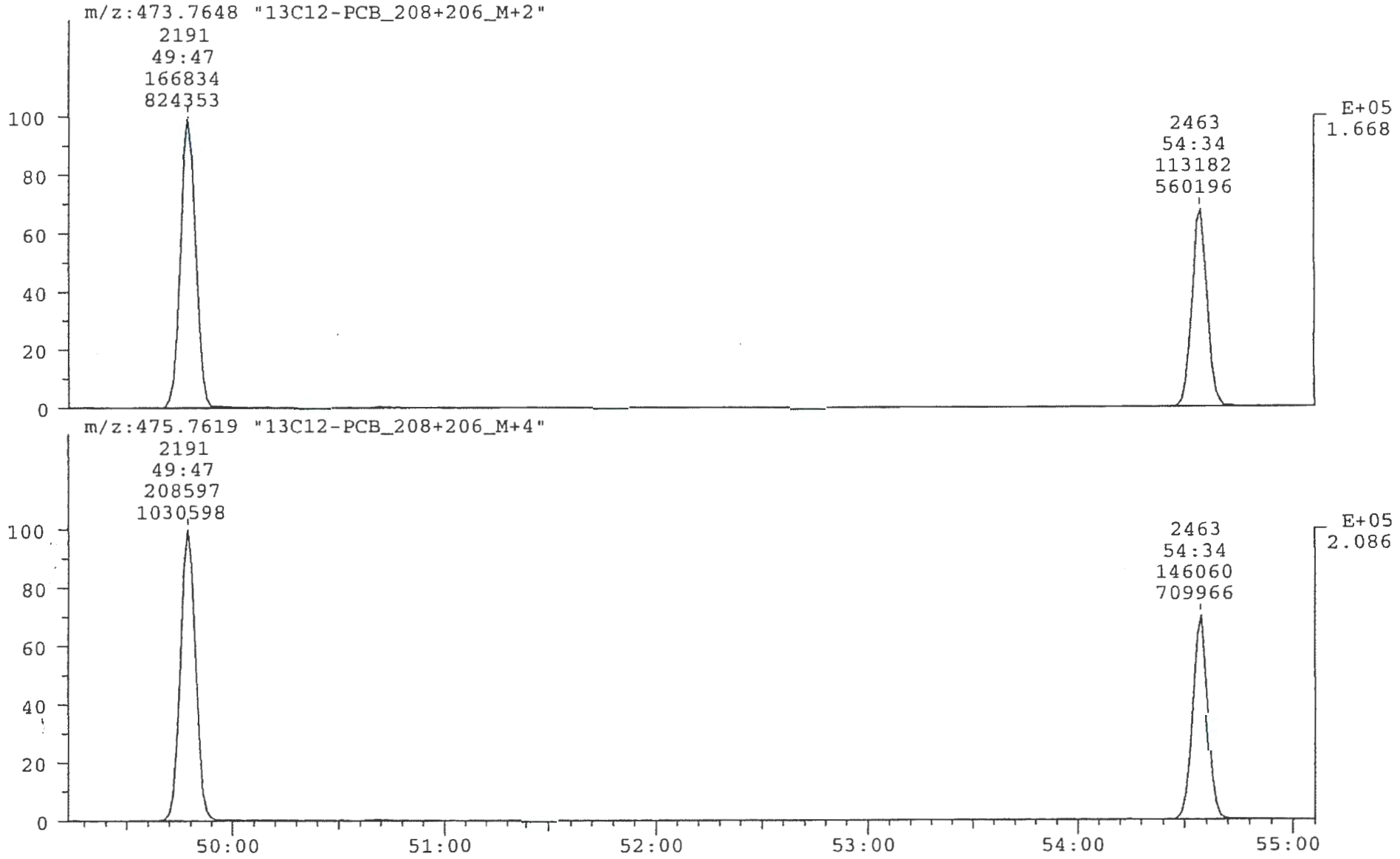

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CHRO:  a07030751                                07-Mar-07   Elapse:  52:13      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   2172 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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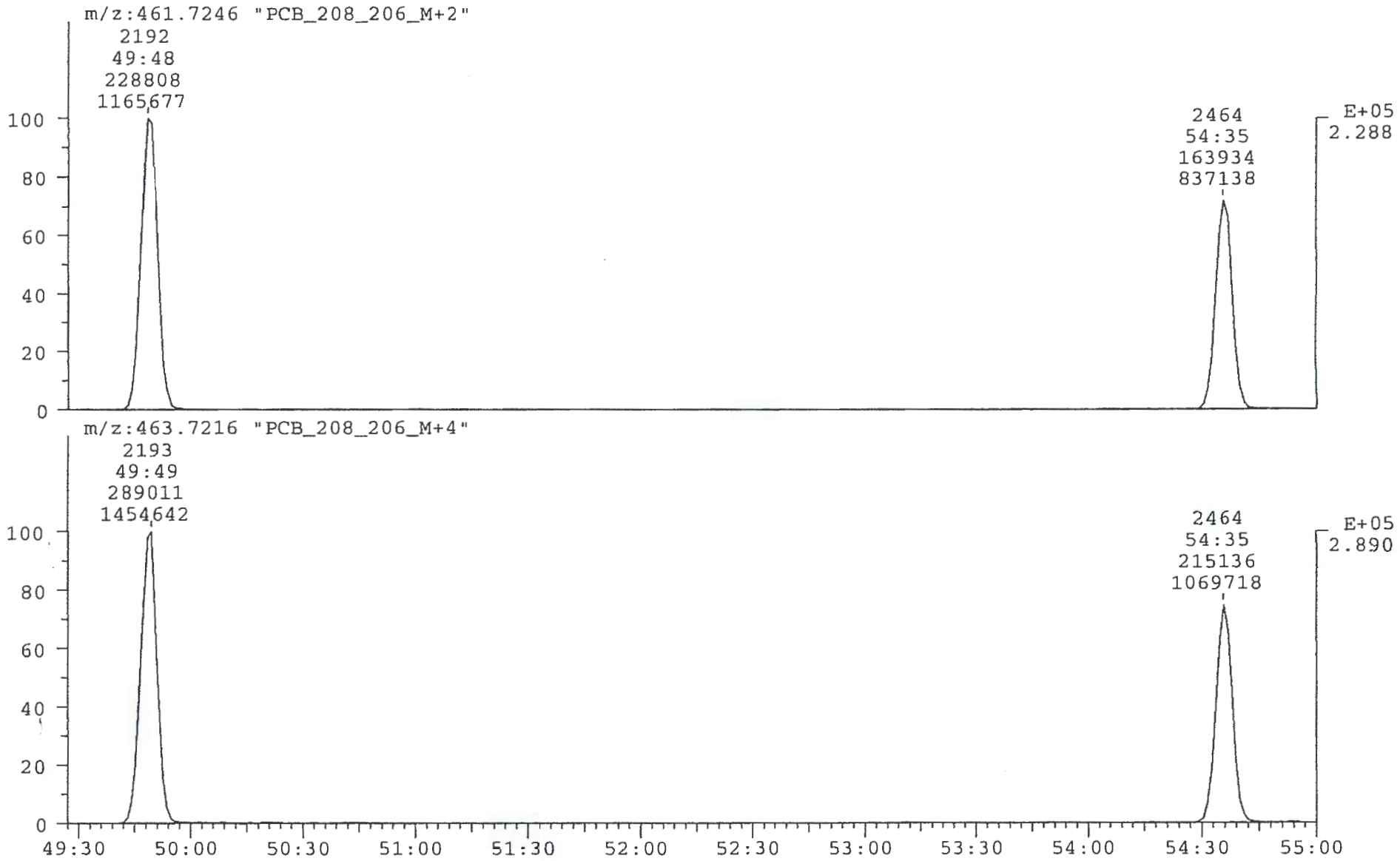

```
CHRO:  a07030751                                07-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2515 > 2595           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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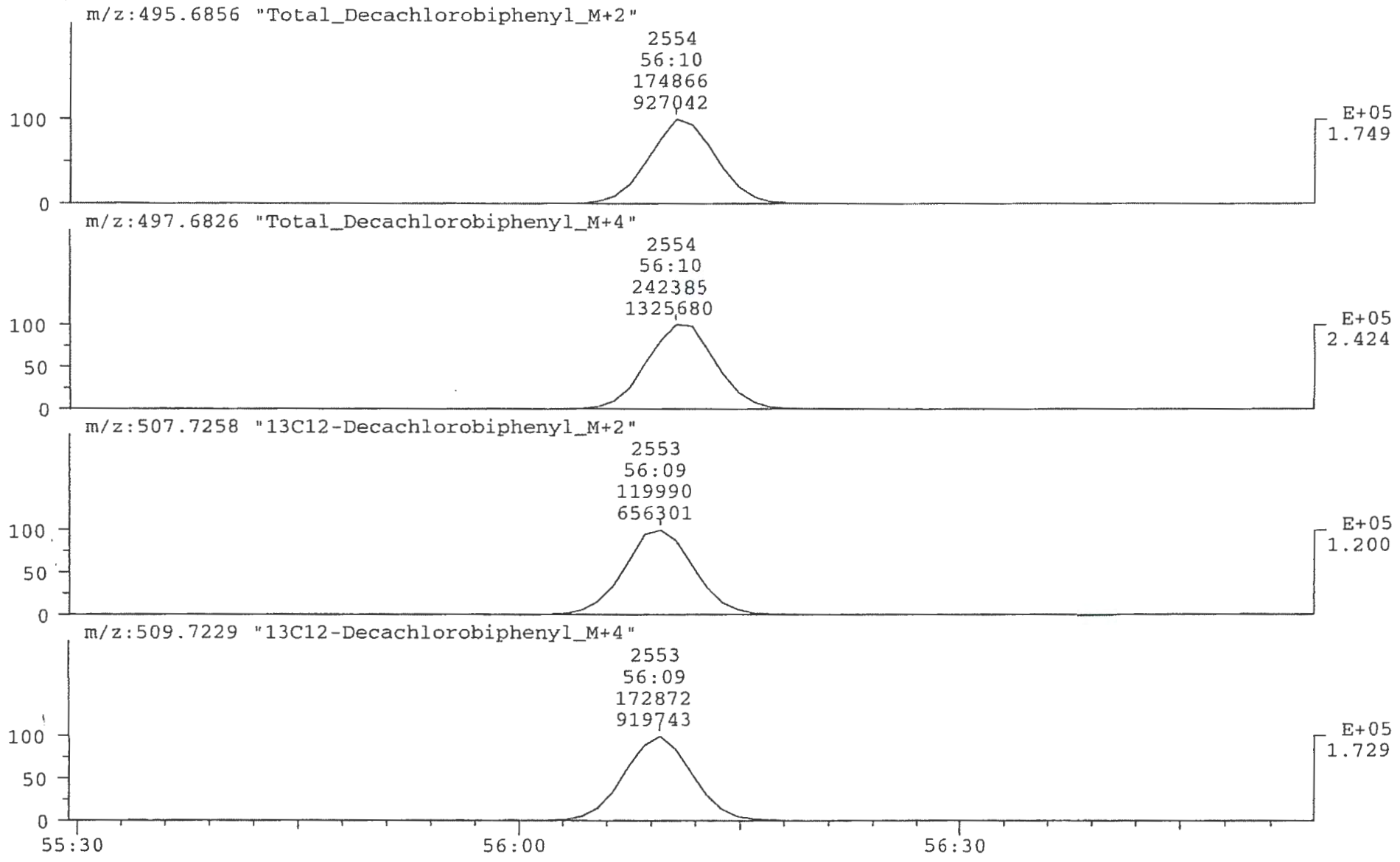


Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030751
Study: 1668 RT Mix5/Run1
Sample: WO=2990:75Mix5 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 7
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 5 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	l	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epal668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
Purge time 1.5 min
Purge flow 40.0 ml/min
Gas saver is on
Saver time 3.0 min
Saver flow 15.0 ml/min
Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	258.0000
FVINLET	256.0000	FVSRC	856.0000	FWIN	0.7000
GCTC	203.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.5294	HVANAL	1304.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2607.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8100	TCURR	0.7813
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 07-Mar-07 21:10:24.1

Autosampler has injected sample from vial 7
MID Time Window 1: Resolution is 7541
MID Time Window 2: Resolution is 7472
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 8803
Analysis stopped at: 07-Mar-07 22:07:27.4 (run time 57.04 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030752.	Prep Date		SDG No	
Analysis ID	96252	Prep Exp Date		Date Received	
Analysis Date	03/08/07 02:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	185	153	74	61	1.21 *	/	
	PCB 1 (BZ)	12:13	00:00	0	1213607	383256	473771	154476	3.17	AVV/AVV	
	PCB 3 (BZ)	14:26	00:00	0	1228754	394865	412248	135283	3.11	AVV/ABV	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	230	330	92	132	0.70 *	/	
	13C12-PCB 1	12:13	00:00	0	2260087	696872	896279	270206	3.24	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2289834	714028	732363	236290	3.21	AVV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	220	473	88	189	0.47 *	/	
	PCB 4 (BZ)	14:44	00:00	0	529136	345498	170724	110817	1.53	AVV/AVV	
	PCB 15 (BZ)	20:42	00:00	0	948281	605246	251547	156724	1.57	AVV/ABV	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	343	210	137	84	1.63	/	
	13C12-PCB 4	14:43	00:00	0	975070	618846	333872	206712	1.58	ABV/ABV	
	13C12-PCB 9	16:40	00:00	0	1593741	990534	480204	293819	1.61	AVV/ABV	
	13C12-PCB 8	17:33	00:00	0	1730855	1070393	476858	296869	1.62	AVV/AVV	
	13C12-PCB 15	20:41	00:00	0	1715381	1066148	450666	283799	1.61	AVV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	150	133	60	53	1.13	/	
	PCB 19 (BZ)	17:56	00:00	0	349318	320876	97931	86417	1.09	ABV/ABV	
	PCB 16 (BZ)	20:41	00:00	0	309404	296293	78718	75306	1.04	ABV/ABV	
	PCB 37 (BZ)	27:48	00:00	0	787772	767975	176642	175981	1.03	ABV/ABV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	598	278	239	111	2.15 *	/	
	13C12-PCB 19	17:54	00:00	0	582165	555505	154725	147946	1.05	AVV/AVV	
	13C12-PCB 32	21:10	00:00	0	1063099	966185	261566	243516	1.10	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1602028	1504631	382718	354505	1.06	ABV/ABV	
	13C12-PCB 28	23:42	00:00	0	1513386	1433383	366128	346509	1.06	AVB/AVV	
	13C12-PCB 37	27:47	00:00	0	1465351	1370451	331471	306496	1.07	AVV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	158	168	63	67	0.94 *	/	
	PCB 54 (BZ)	21:03	00:00	0	622887	788659	153080	195105	0.79	ABV/ABV	
	PCB 43 (BZ)	25:48	00:00	0	689177	878658	153642	199429	0.78	ABV/ABV	
	PCB 44 (BZ)	26:37	00:00	0	746489	938962	164020	203316	0.80	ABV/AVV	M
	PCB 74 (BZ)	30:24	00:00	0	1194275	1521195	261494	325369	0.79	ABV/AVV	M
	PCB 56 (BZ)	31:24	00:00	0	1114000	1420704	237935	299459	0.78	AVV/AVV	D
	PCB 77 (BZ)	35:07	00:00	0	1133200	1443506	236146	307333	0.79	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	150	140	60	56	1.07 *	/	
	13C12-PCB 54	21:02	00:00	0	530343	645621	138845	162717	0.82	AVV/ABV	
	13C12-PCB 52	25:33	00:00	0	760812	943232	181779	221561	0.81	ABV/ABV	
	13C12-PCB 79	33:28	00:00	0	1103948	1386299	238477	293456	0.80	ABV/ABV	
	13C12-PCB 81	34:30	00:00	0	996581	1286199	206085	272918	0.77	ABV/ABV	D

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030752.	Prep Date		SDG No	
Analysis ID	96252	Prep Exp Date		Date Received	
Analysis Date	03/08/07 02:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	13C12-PCB 77	35:06	00:00	0	1050443	1312553	220133	278933	0.80	ABV/ABB	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	168	143	67	57	1.18 *	/	
	PCB 104 (BZ)	26:31	00:00	0	1297734	799993	295827	186938	1.62	ABV/ABV	
	PCB 98 (BZ)	29:55	00:00	0	845136	522805	183545	117081	1.62	AVV/ABV	D
	PCB 125 (BZ)	33:36	00:00	0	1248537	781232	263667	162212	1.60	ABV/ABV	D
	PCB 110 (BZ)	34:26	00:00	0	1311946	815888	278278	171538	1.61	ABV/AVV	D
	PCB 126 (BZ)	41:40	00:00	0	1499286	947756	312918	192685	1.58	ABV/ABV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	175	145	70	58	1.21 *	/	
	13C12-PCB 104	26:29	00:00	0	1186078	745917	272989	172016	1.59	ABV/ABV	D
	13C12-PCB 95	29:30	00:00	0	881551	542639	193406	119198	1.62	ABV/ABV	D
	13C12-PCB 101	32:22	00:00	0	905081	554715	192272	120699	1.63	ABV/ABV	
	13C12-PCB 111	35:00	00:00	0	1144194	726661	247576	154419	1.57	ABV/ABV	
	13C12-PCB 123	37:01	00:00	0	1412009	891799	293255	181588	1.58	ABV/ABV	D
	13C12-PCB 118	37:21	00:00	0	1502985	932888	316768	195664	1.61	AVV/AVV	D
	13C12-PCB 114	37:53	00:00	0	1450459	914989	285333	187012	1.59	AVV/AVV	D
	13C12-PCB 105	38:36	00:00	0	1408969	876627	287723	178086	1.61	ABV/AVV	D
	13C12-PCB 127	39:58	00:00	0	1508981	943715	314265	198357	1.60	ABV/AVV	
	13C12-PCB 126	41:38	00:00	0	1525063	971519	310903	197262	1.57	AVV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	145	138	58	55	1.05	/	
	PCB 155 (BZ)	32:04	00:00	0	1084959	842641	232465	180066	1.29	ABV/ABV	
	PCB 138 (BZ)	40:30	00:00	0	946903	747050	188098	150559	1.27	ABV/ABV	
	PCB 169 (BZ)	47:51	00:00	0	1304062	1021143	264765	210209	1.28	AVV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	155	153	62	61	1.02 *	/	
	13C12-PCB 155	32:02	00:00	0	1001326	784395	225367	171764	1.28	ABV/ABV	D
	13C12-PCB 153	39:08	00:00	0	1002441	775806	202894	158414	1.29	ABV/ABV	D
	13C12-PCB 138	40:28	00:00	0	970603	750456	203088	160725	1.29	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1238164	987459	252718	194290	1.25	AVV/AVV	
	13C12-PCB 156	44:35	00:00	0	1088495	870414	253615	201541	1.25	ABV/ABV	D
	13C12-PCB 157	44:39	00:00	0	1355663	1049836	268779	206970	1.29	AVB/AVB	M
	13C12-PCB 169	47:50	00:00	0	1206068	947781	250524	192269	1.27	ABV/AVV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	133	125	53	50	1.06	/	
	PCB 188 (BZ)	37:48	00:00	0	1042362	997696	221639	203443	1.04	ABV/ABV	
	PCB 189 (BZ)	50:20	00:00	0	1137747	1115273	222685	216105	1.02	AVV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	175	138	70	55	1.27 *	/	
	13C12-PCB 188	37:47	00:00	0	1053462	972218	222750	199005	1.08	ABV/ABV	D
	13C12-PCB 178	40:51	00:00	0	644321	610838	132403	127056	1.05	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	840800	795073	174219	160832	1.06	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030752.	Prep Date		SDG No	
Analysis ID	96252	Prep Exp Date		Date Received	
Analysis Date	03/08/07 02:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

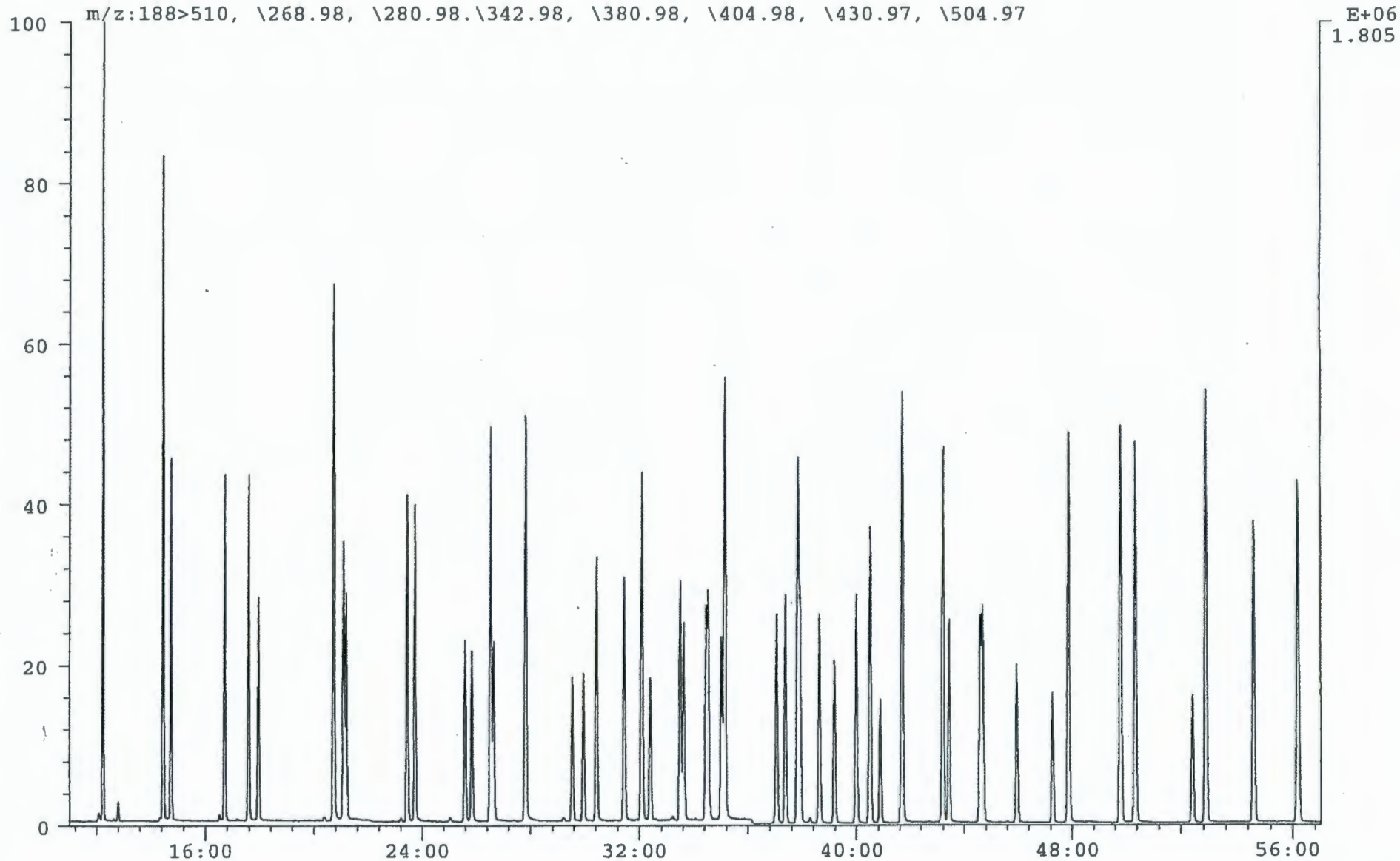
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
406					**405.8428**	**407.8398**	**405.8428**	**407.8398**	**0.89-1.21**		
	13C12-PCB 170	47:15	00:00	0	700148	659358	140591	130270	1.06	AVV/AVV	
	13C12-PCB 189	50:18	00:00	0	1131935	1089960	228609	216457	1.04	ABV/ABV	D
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**		
	Noise	00:00	00:00	0	138	145	55	58	0.95	/	
	PCB 202 (BZ)	43:10	00:00	0	1177808	1296922	239750	268738	0.91	ABV/ABV	
	PCB 205 (BZ)	52:52	00:00	0	1359252	1530215	268296	300931	0.89	ABV/ABV	
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**		
	Noise	00:00	00:00	0	138	123	55	49	1.12 *	/	
	13C12-PCB 202	43:09	00:00	0	811505	880051	164566	180666	0.92	ABV/ABV	D
	13C12-PCB 194	52:23	00:00	0	654763	711284	129807	140769	0.92	ABB/ABV	
	13C12-PCB 205	52:50	00:00	0	941336	1046193	188109	206285	0.90	ABV/ABV	
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**		
	Noise	00:00	00:00	0	150	170	60	68	0.88	/	
	PCB 208 (BZ)	49:48	00:00	0	1122579	1451548	226867	293629	0.77	ABV/ABV	
	PCB 206 (BZ)	54:35	00:00	0	797841	1033715	155538	203794	0.77	ABV/AVV	
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**		
	Noise	00:00	00:00	0	145	155	58	62	0.94 *	/	
	13C12-PCB 208	49:47	00:00	0	795409	995657	157559	192731	0.80	AVV/AVV	
	13C12-PCB 206	54:34	00:00	0	538799	681991	104732	135198	0.79	AVV/ABV	
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**		
	Noise	00:00	00:00	0	130	240	52	96	0.54 *	/	
	PCB 209 (BZ)	56:10	00:00	0	886929	1286804	166556	236808	0.69	ABV/ABV	
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**		
	Noise	00:00	00:00	0	168	140	67	56	1.20 *	/	
	13C12-PCB 209	56:08	00:00	0	636344	890851	117611	159379	0.71	ABV/ABV	

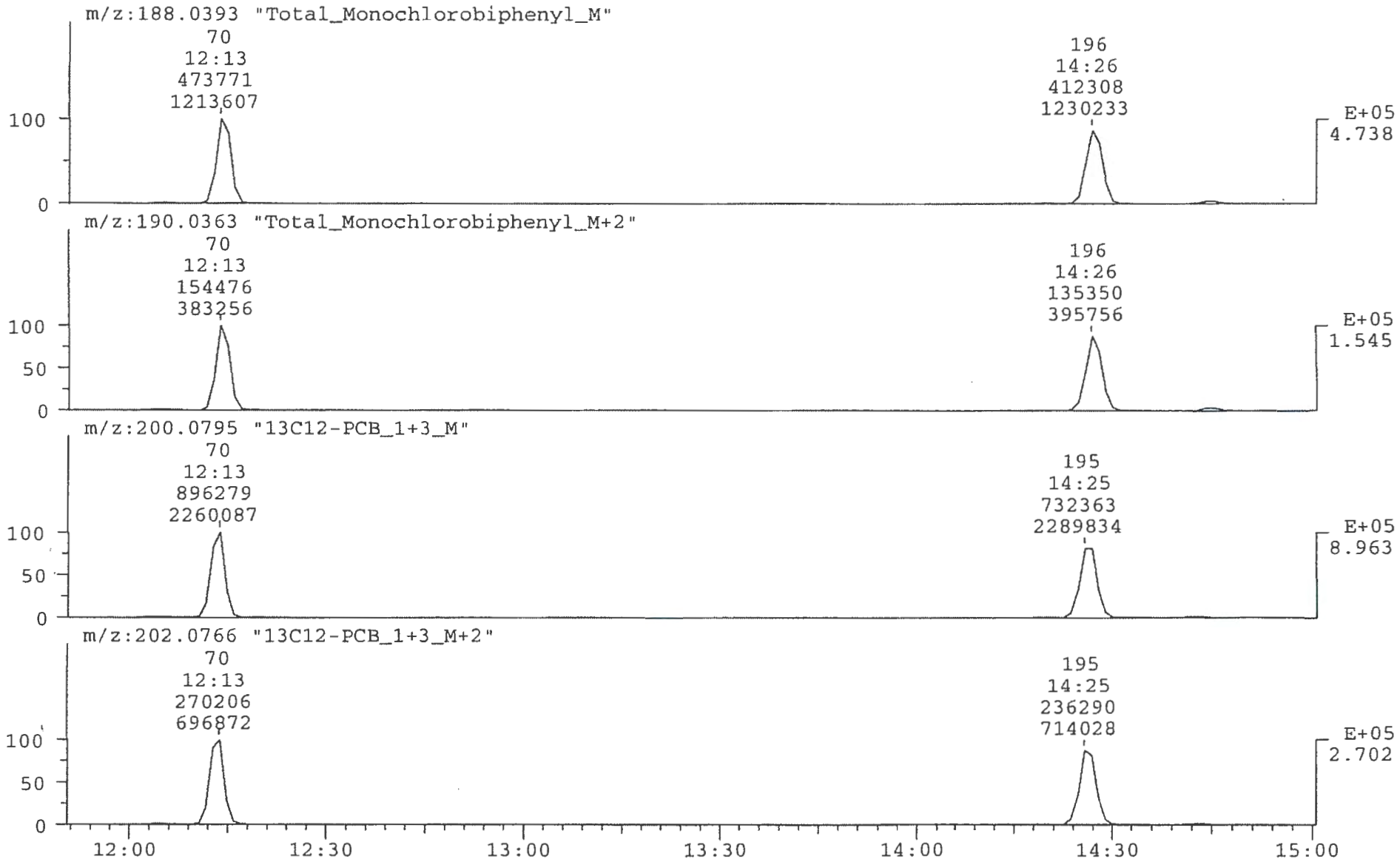
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: a07030752 08-Mar-07 Elapse: 56:11 2555
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 2 > 2602 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

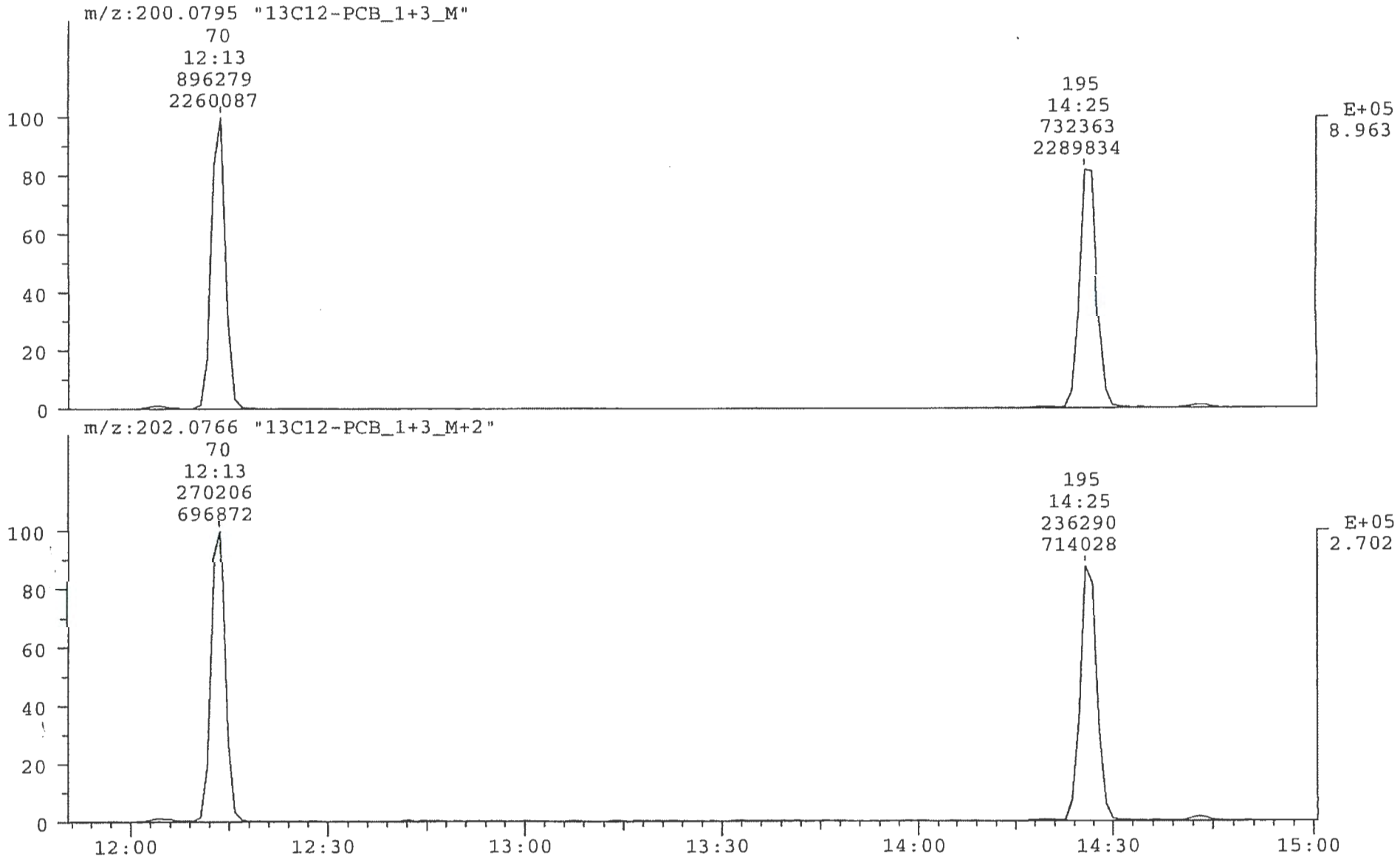
Int DCG 3-19-07
Calc DCG 3-19-07
QC BFW 3/19/07



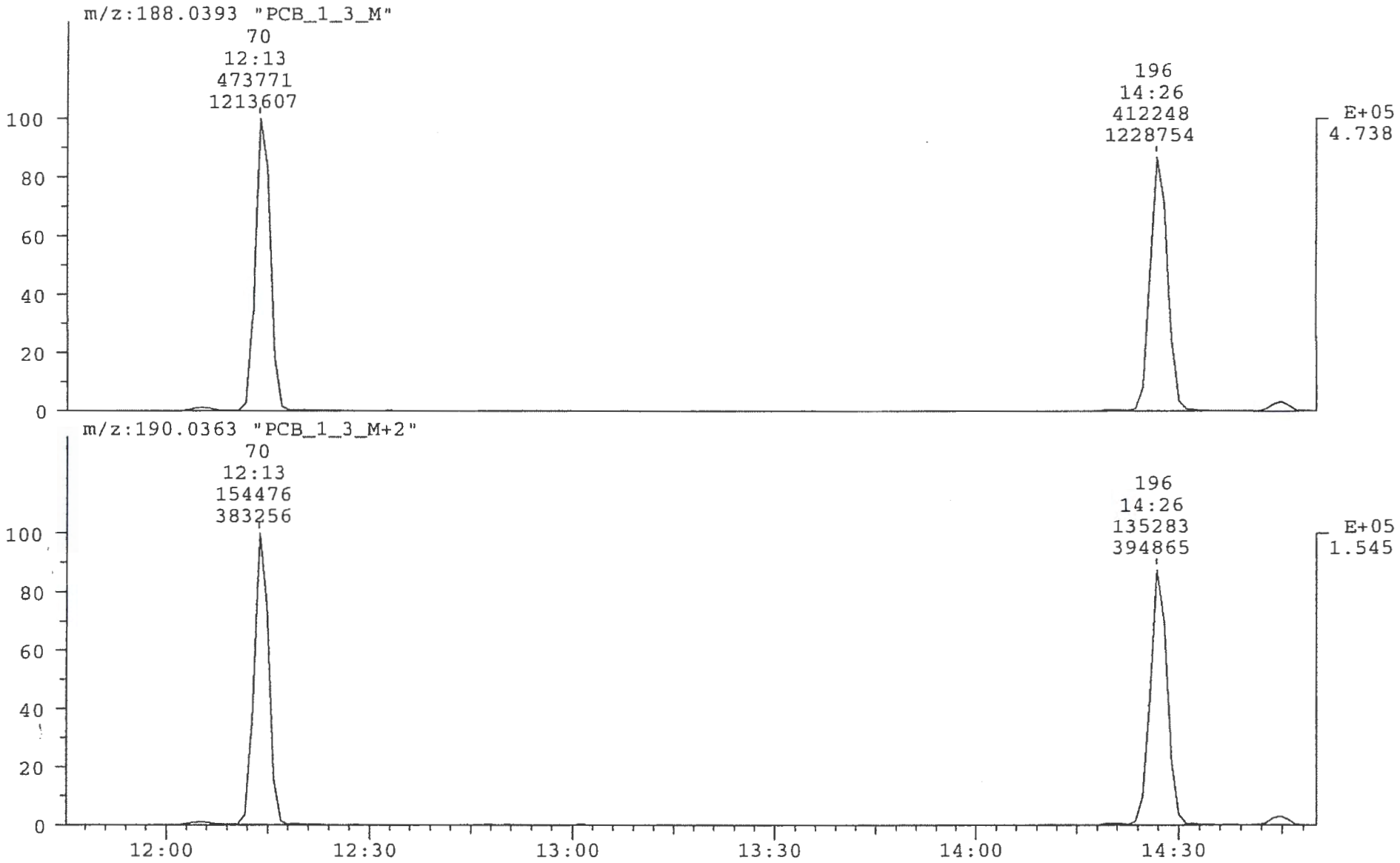
```
CHRO:  a07030752                                08-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



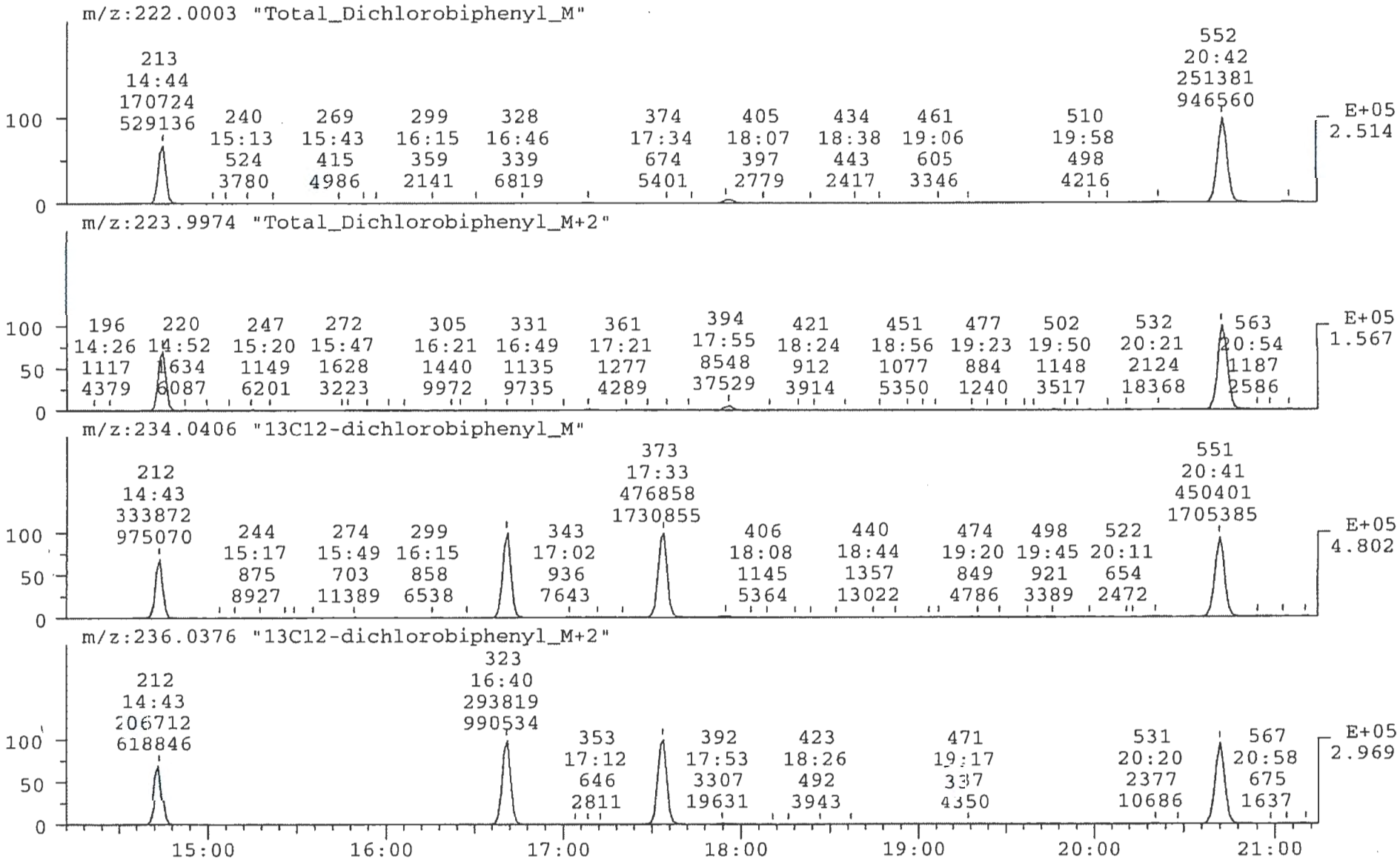
```
CHRO:  a07030752                                08-Mar-07   Elapse:  13:25.5      138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



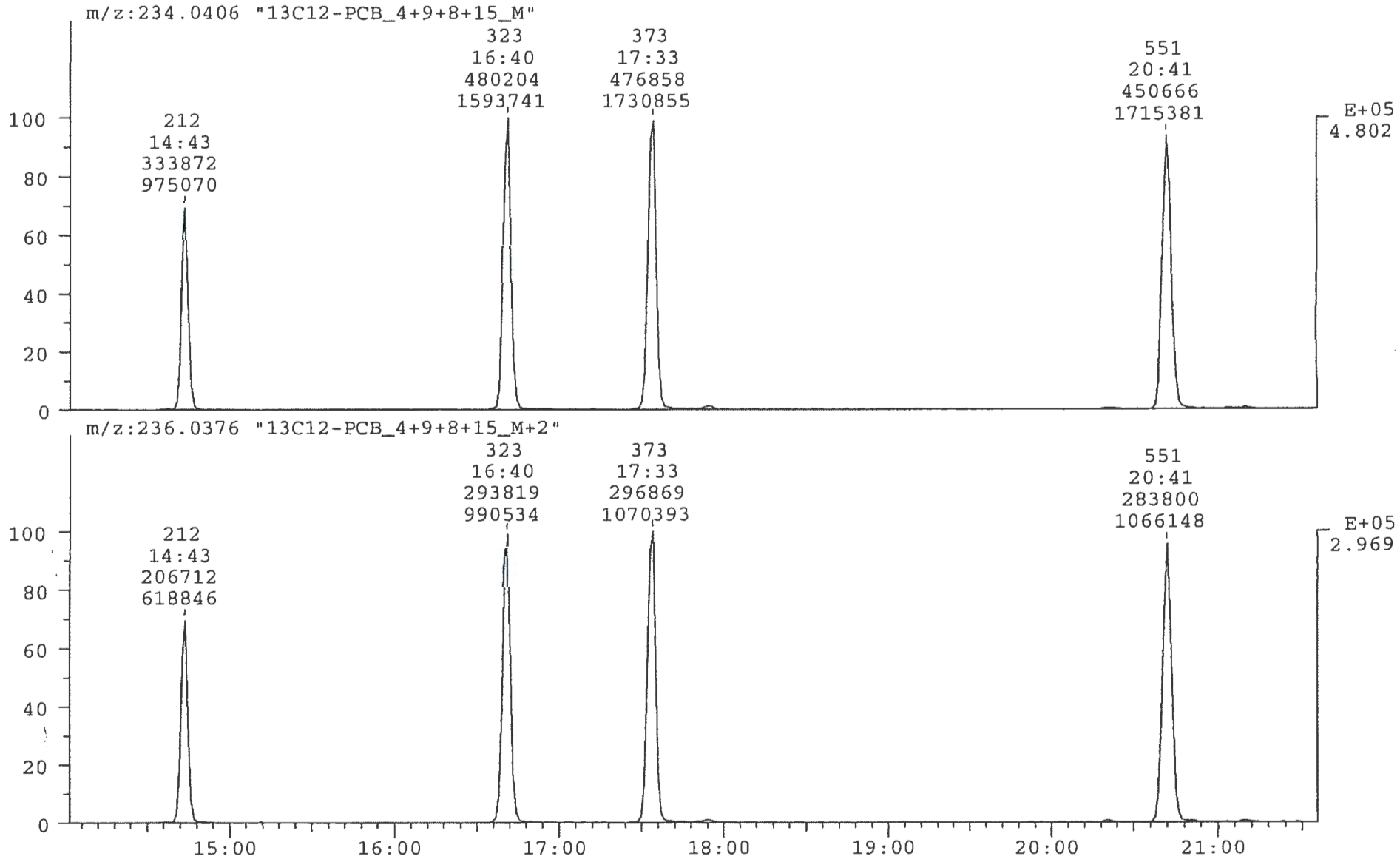
```
CHRO:  a07030752                                08-Mar-07   Elapse:  13:25.5      138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC      Vial   7
Peak:  100.00  ppm      Label wndw:   43 > 218              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



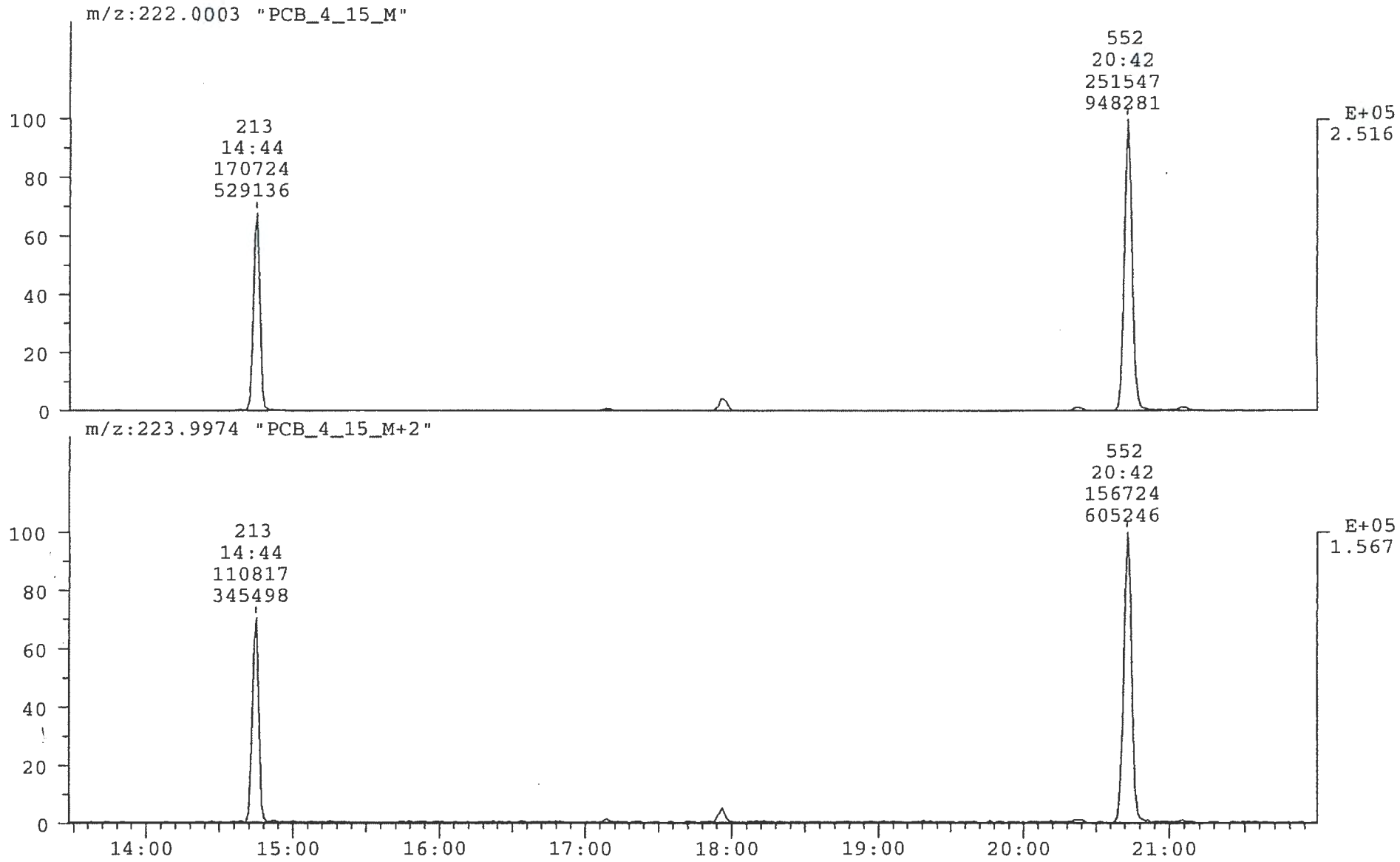
```
CHRO:  a07030752                                08-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC      Vial   7
Peak:  100.00  ppm      Label wndw:   182 > 582             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



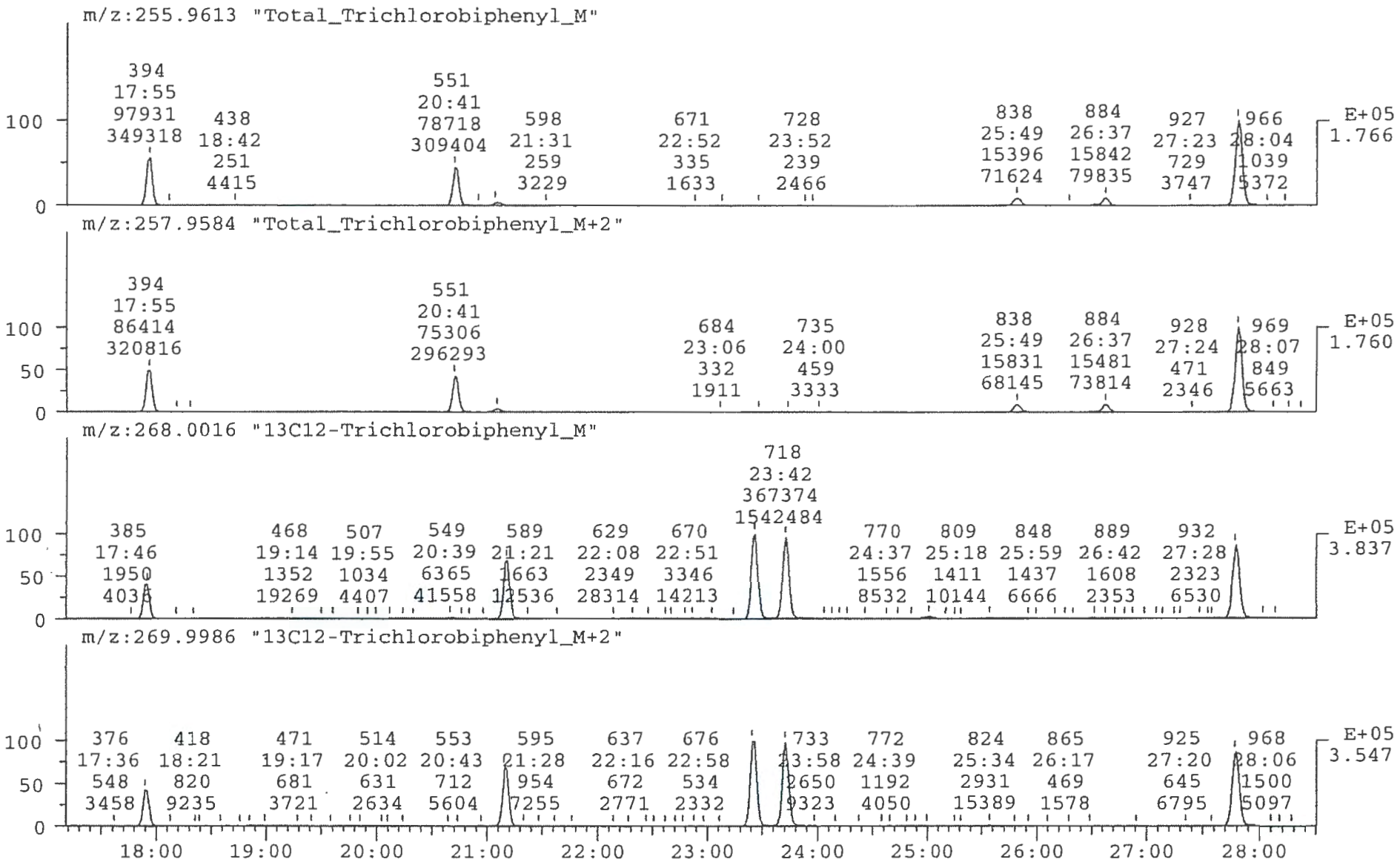
```
CHRO:  a07030752                              08-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC      Vial . 7
Peak:  100.00  ppm      Label wndw:   172 > 602           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



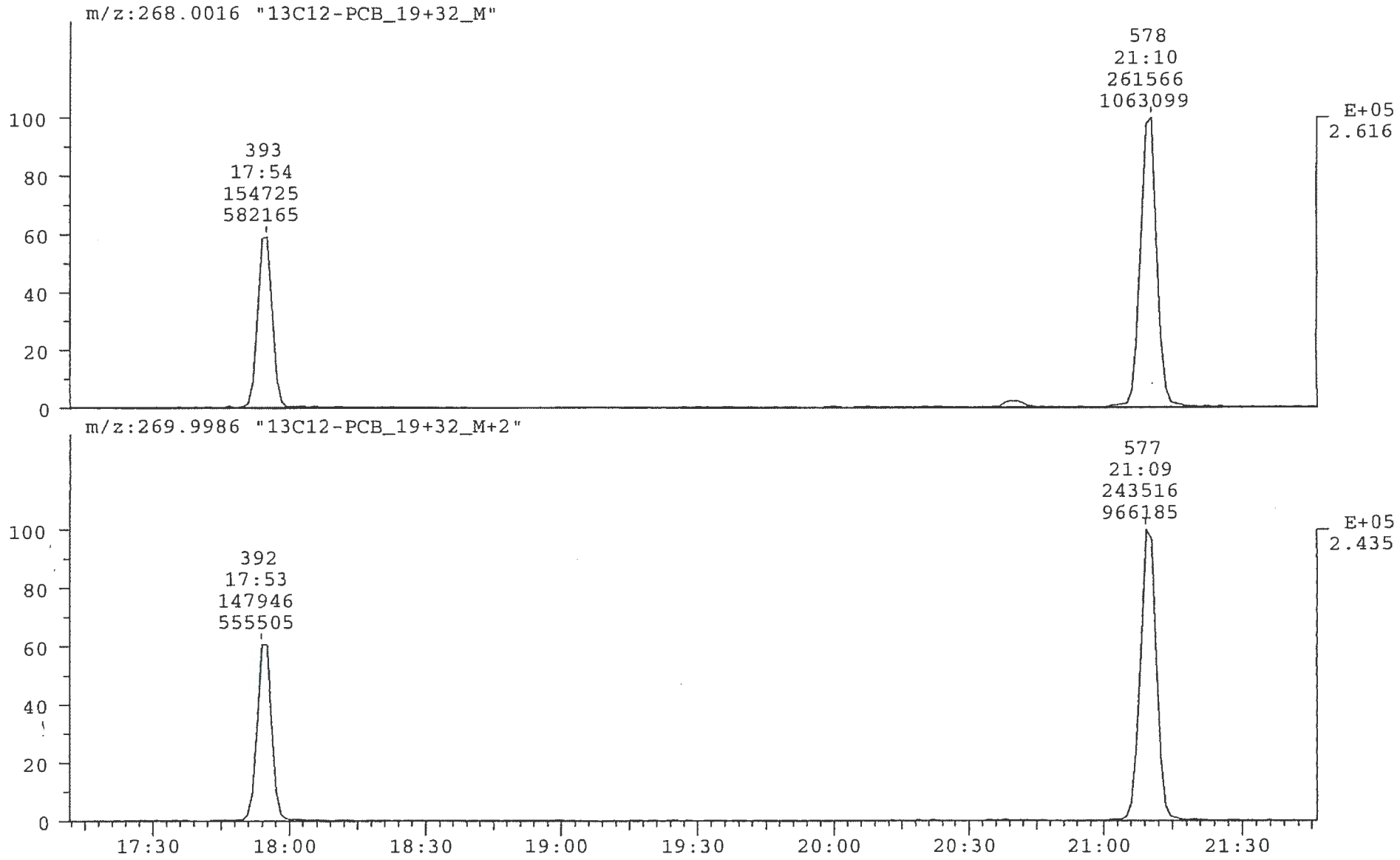
```
CHRO:  a07030752                                08-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   140 > 624             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



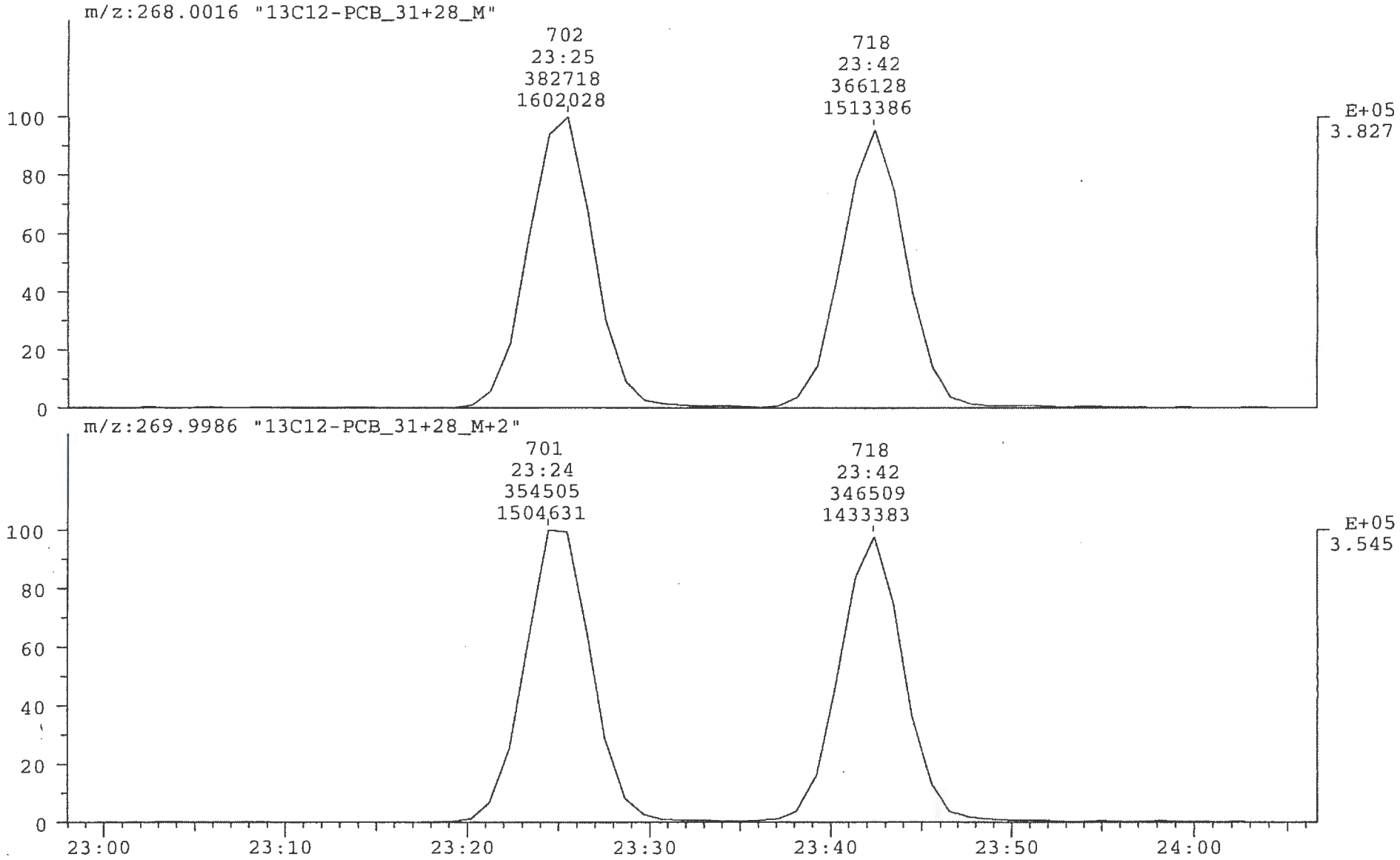
CHRO: a07030752 08-Mar-07 Elapse: 22:52.7 671
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



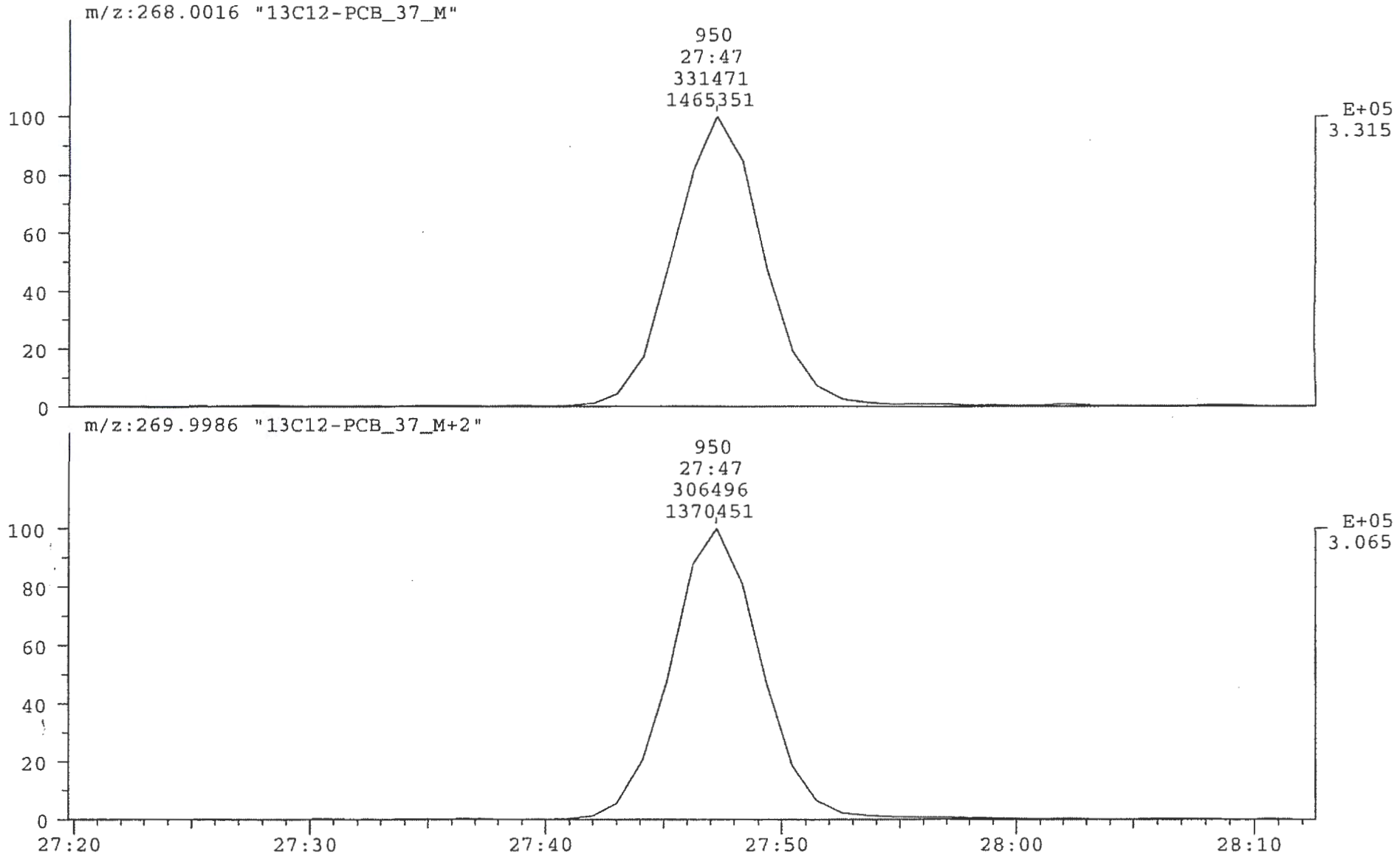
CHRO: a07030752 08-Mar-07 Elapse: 19:18.3 472
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 352 > 612 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



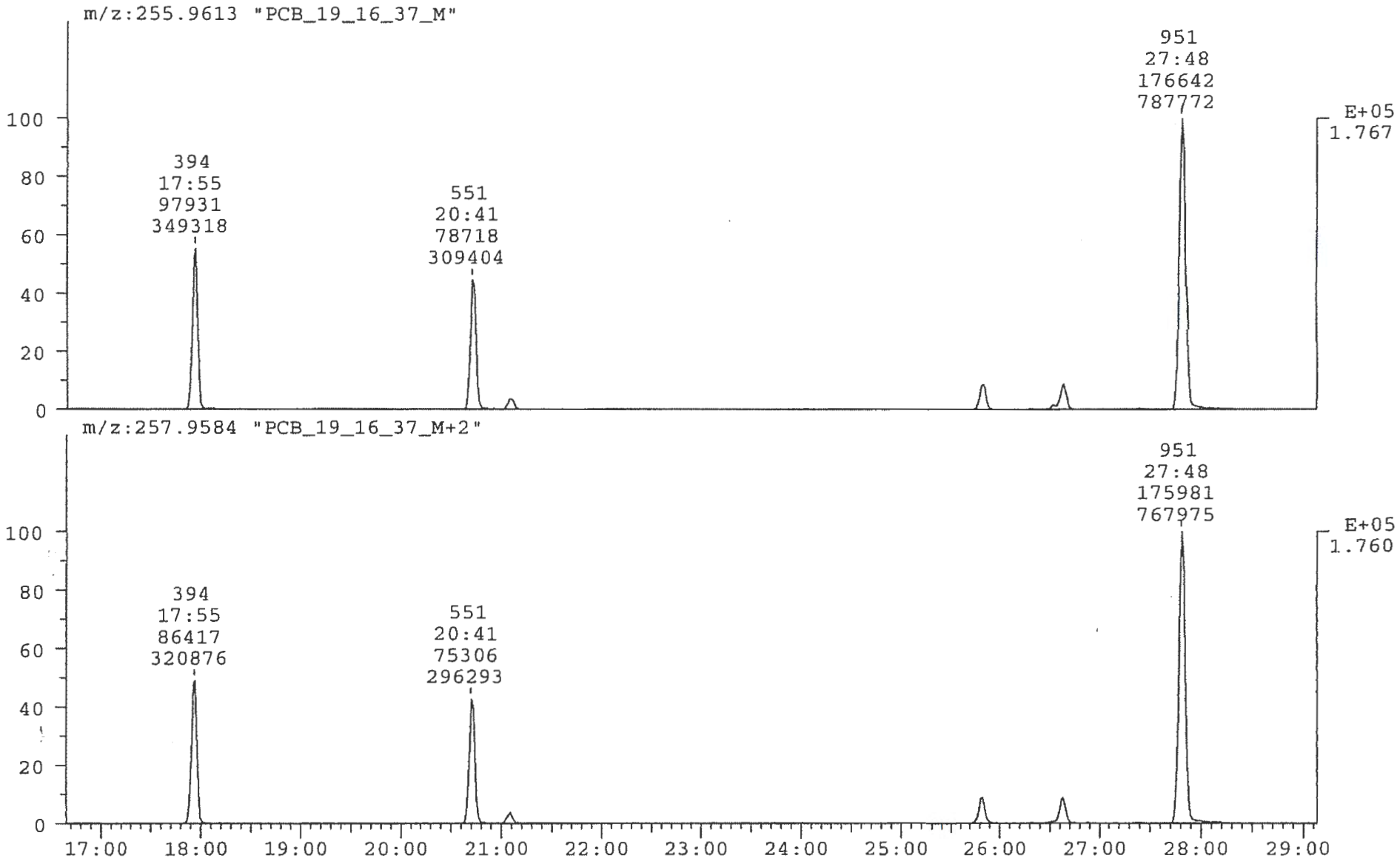
```
CHRO:  a07030752                                08-Mar-07   Elapse:  23:24.4      701
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   676 > 741             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030752                                08-Mar-07   Elapse:  27:46.2      949
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   924 > 974             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

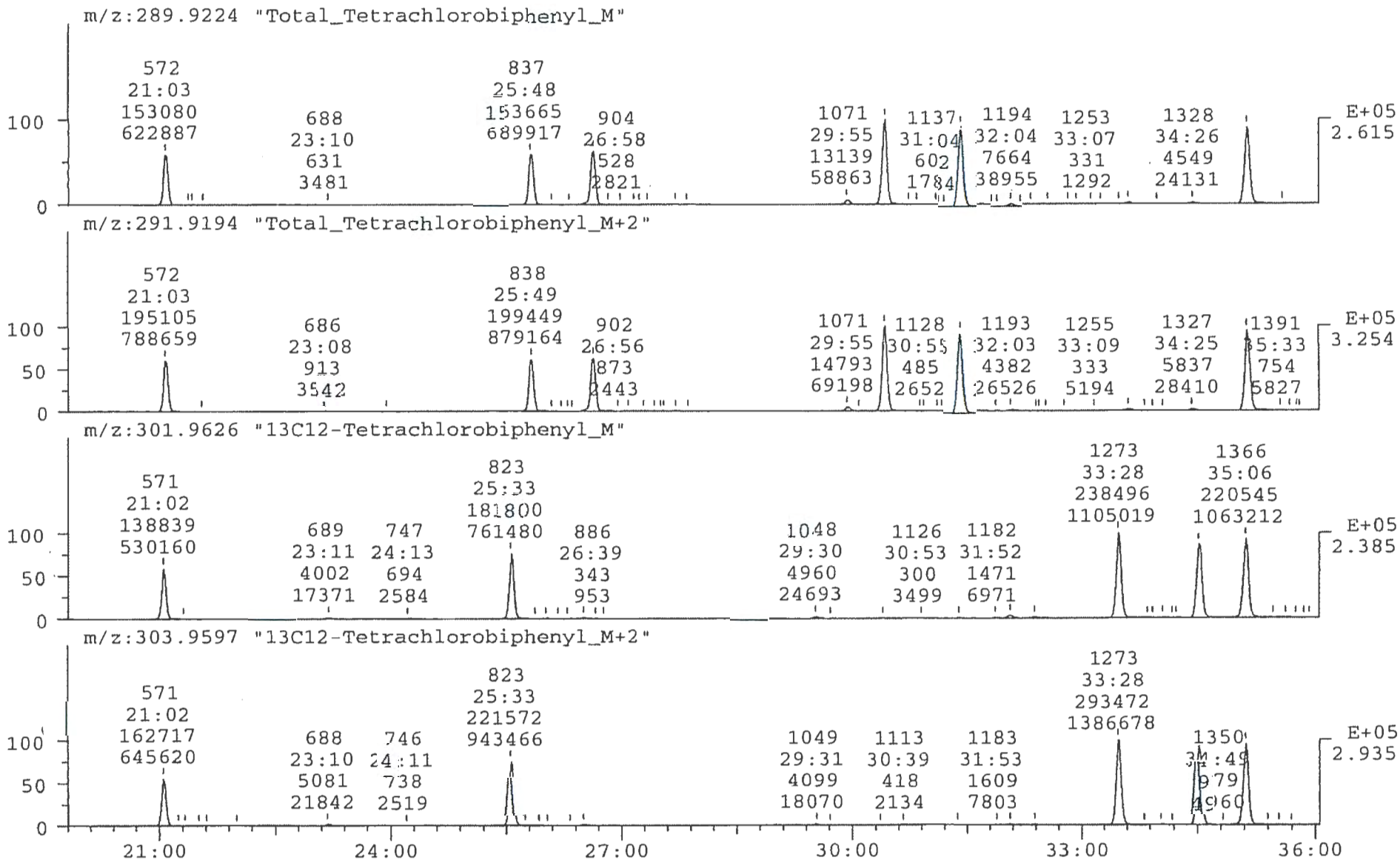


```
CHRO:  a07030752                                08-Mar-07   Elapse:  22:52.7      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   321 > 1026            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

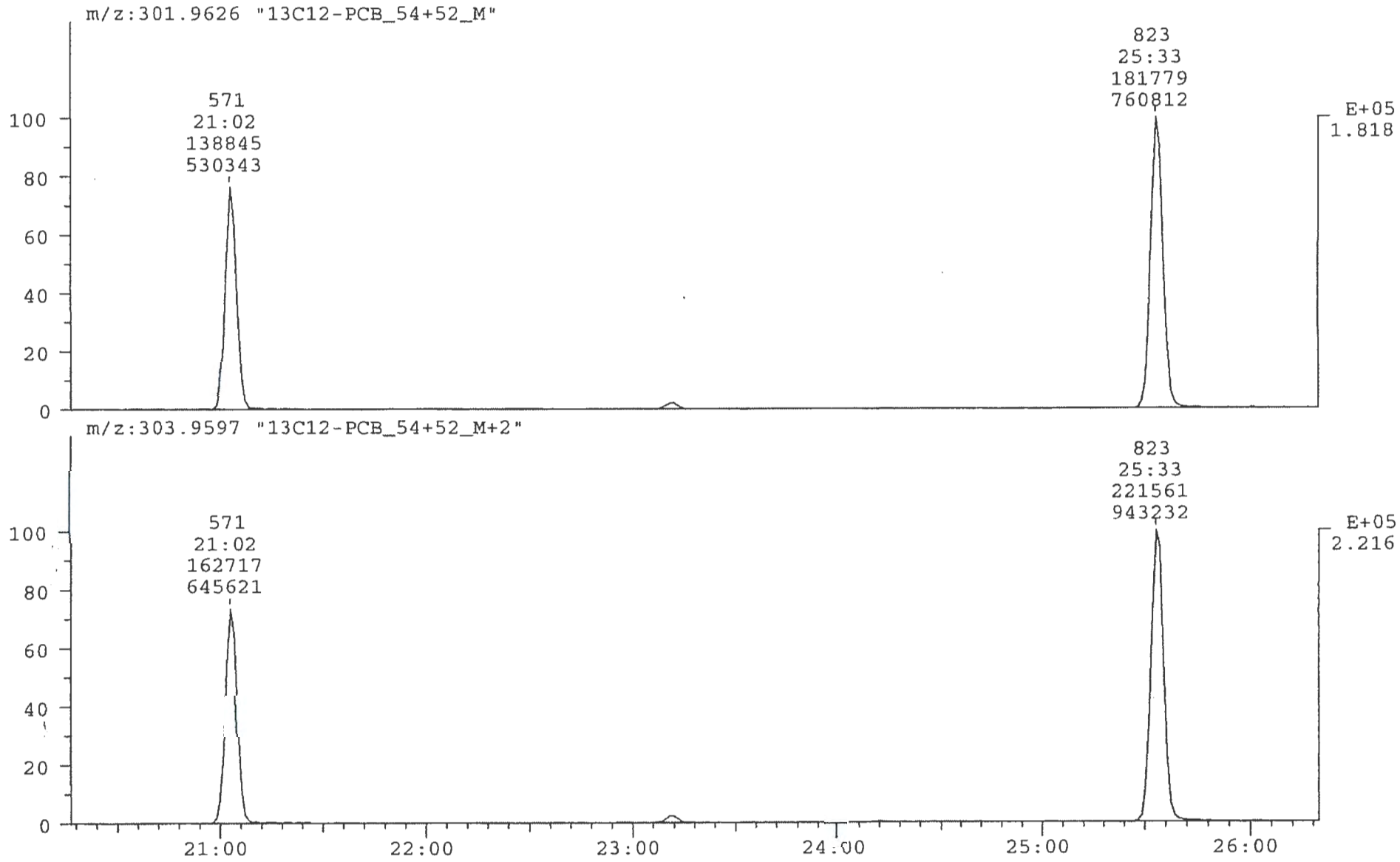


2541

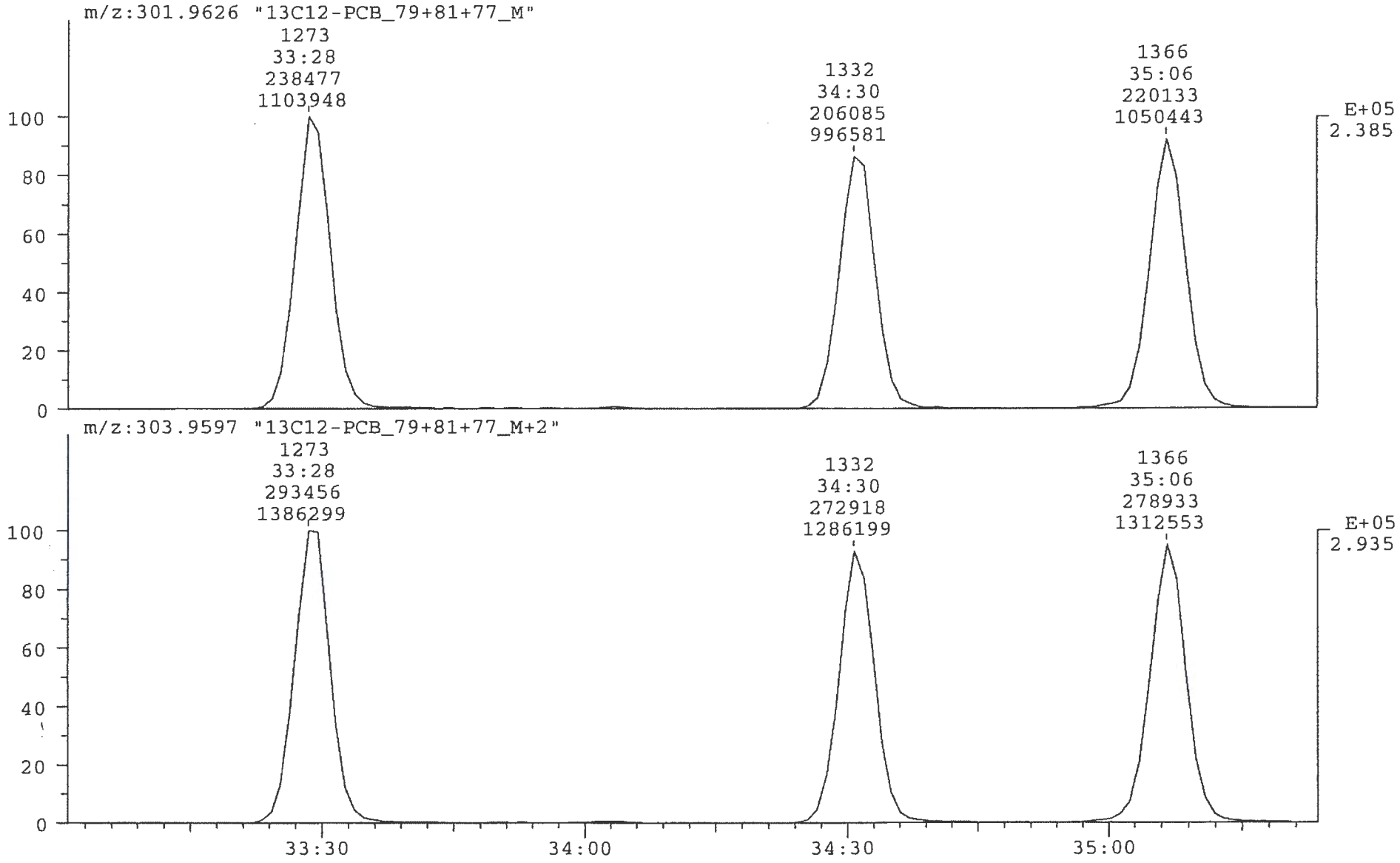
CHRO: a07030752 08-Mar-07 Elapse: 27:54.6 957
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



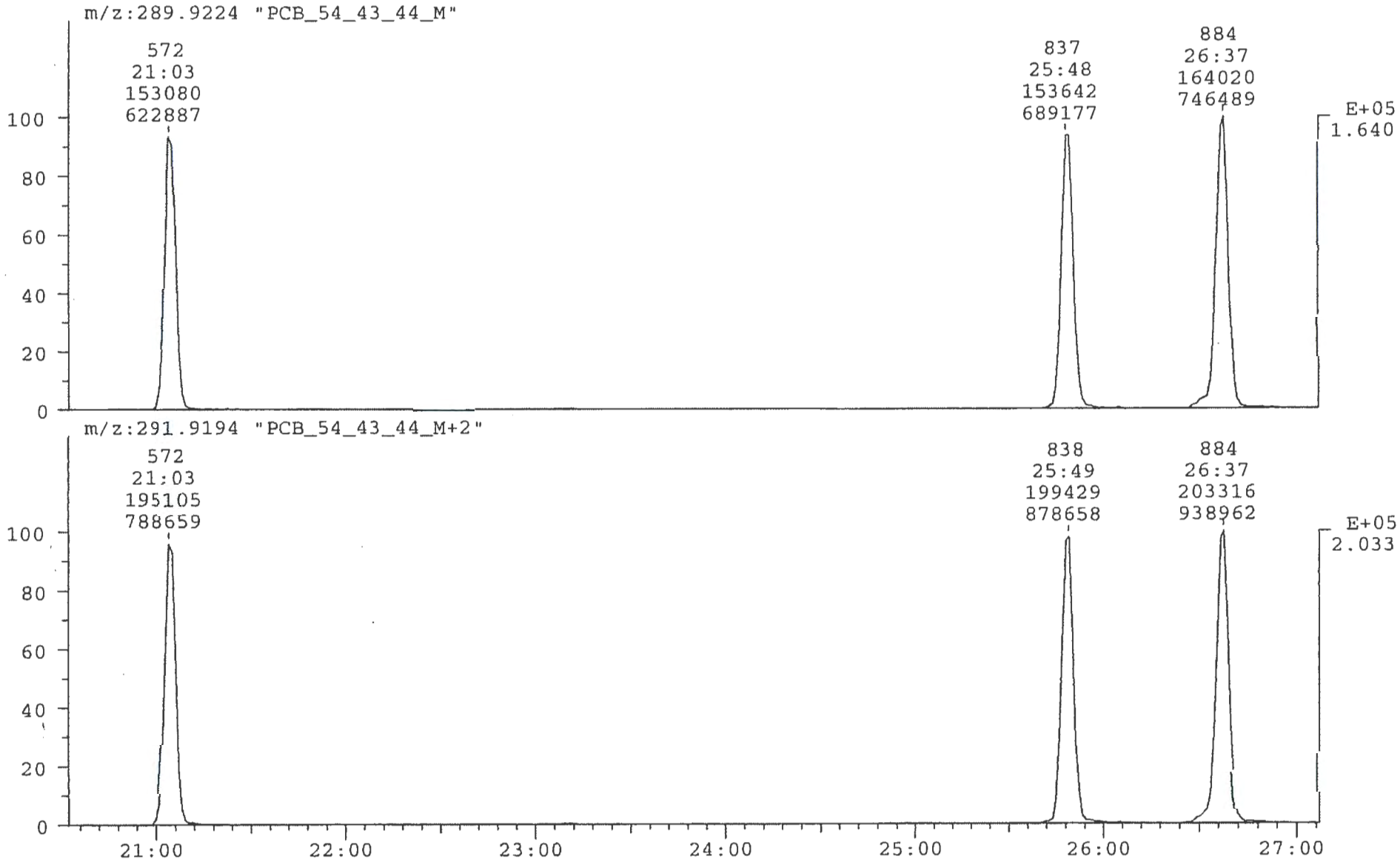
```
CHRO:  a07030752                                08-Mar-07   Elapse:  23:20.2      697
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



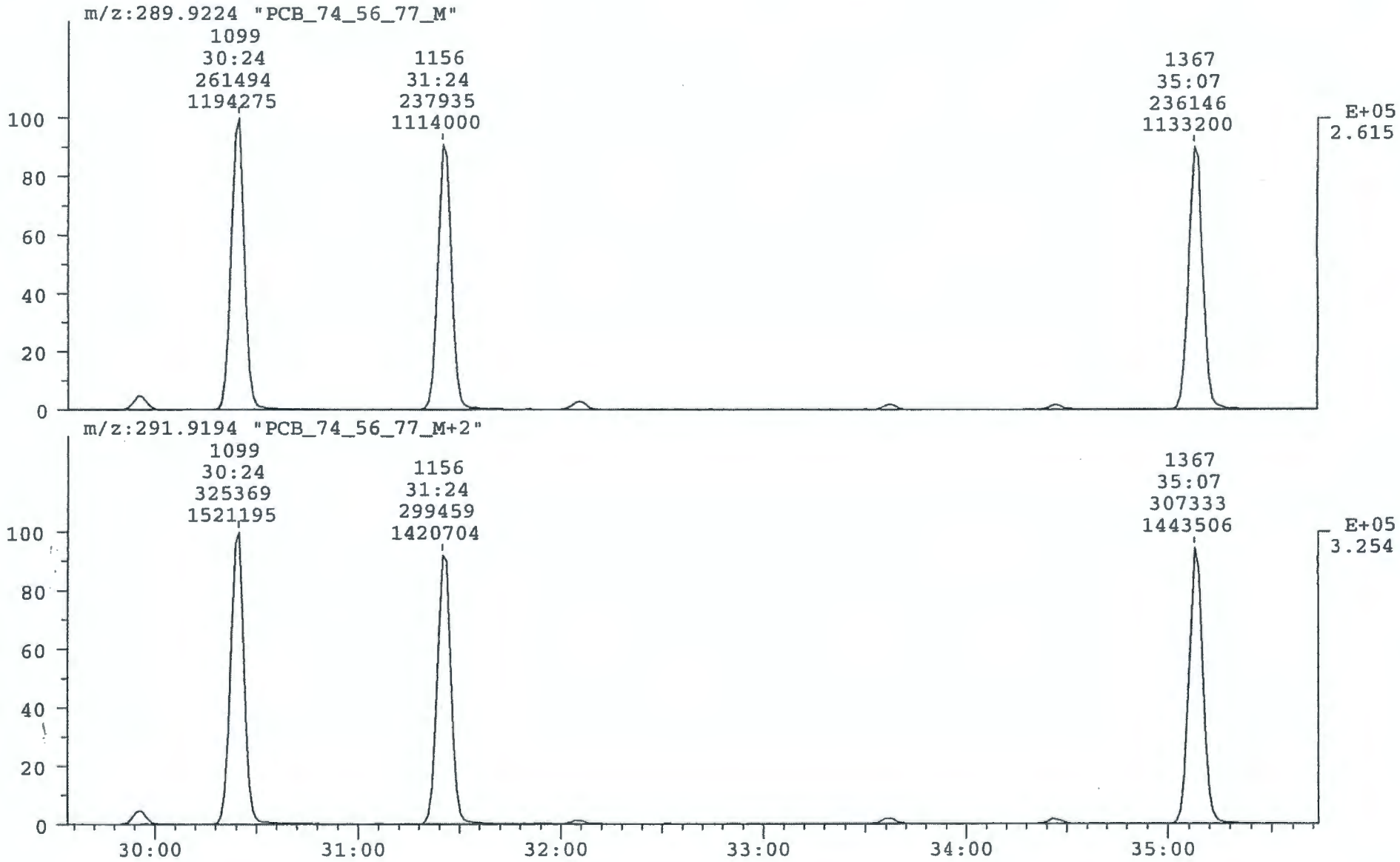
```
CHRO:  a07030752                                08-Mar-07   Elapse:  34:14      1317
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   1247 > 1382            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



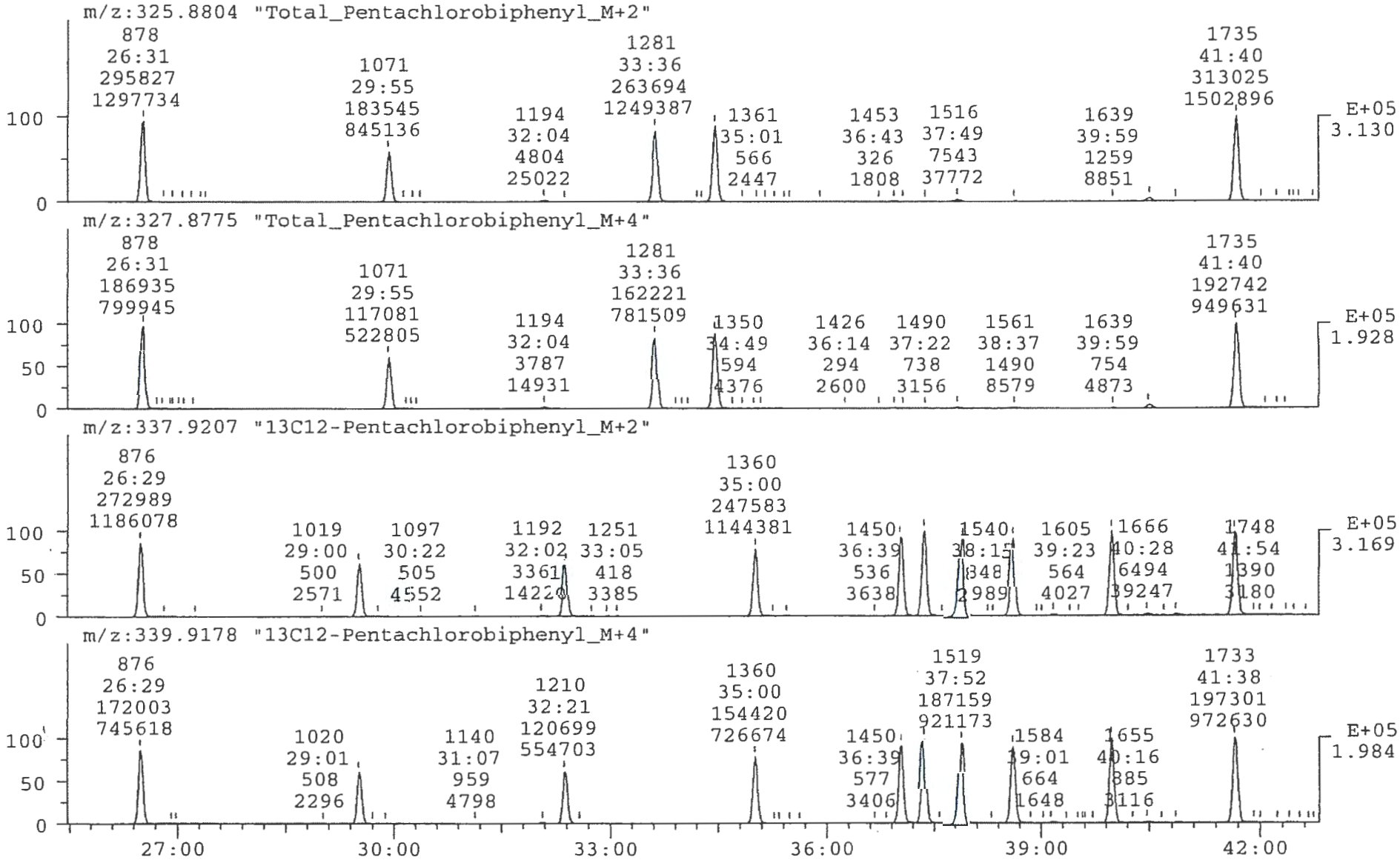
CHRO: a07030752 08-Mar-07 Elapse: 23:51.8 727
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 542 > 912 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



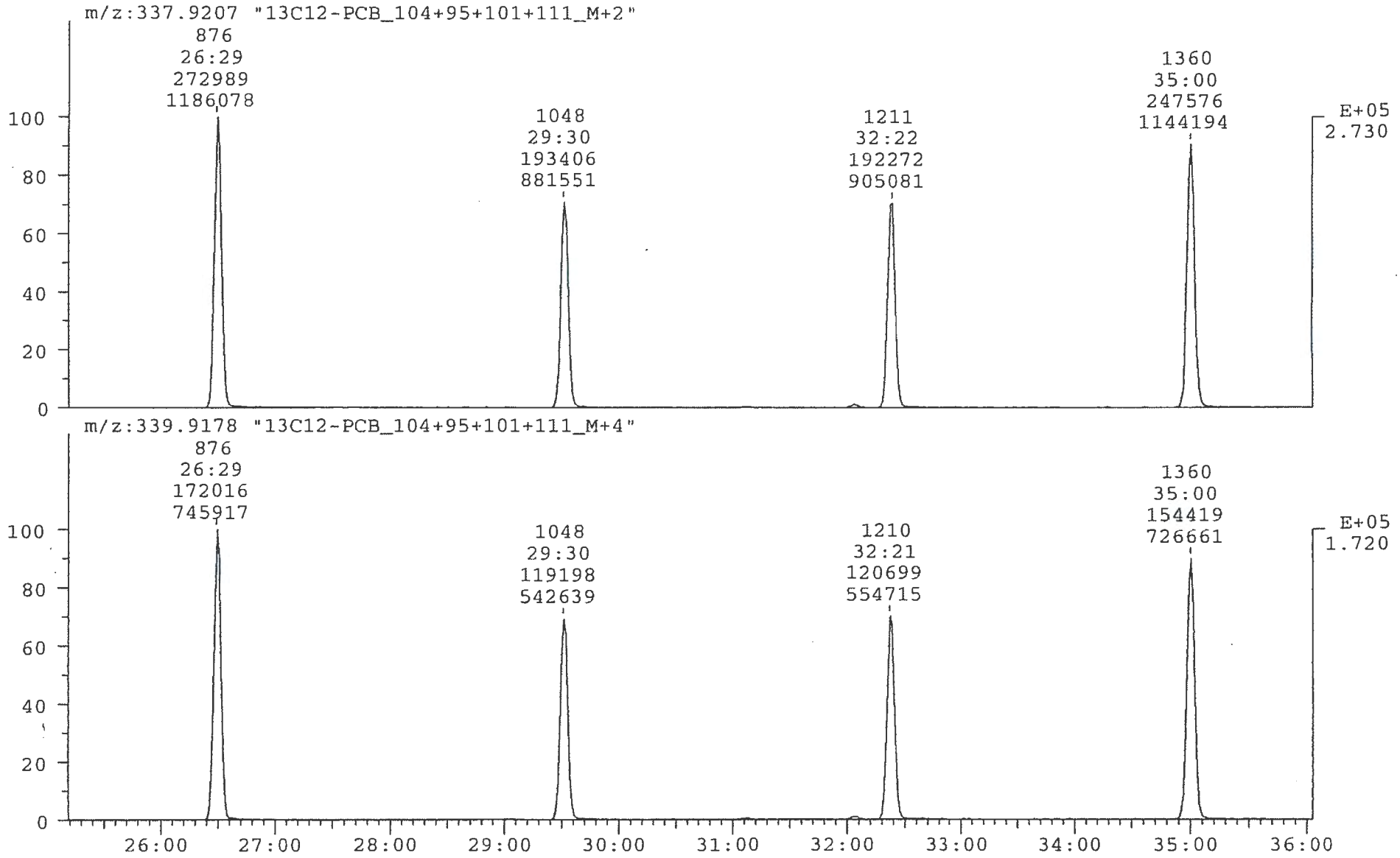
```
CHRO:  a07030752                                08-Mar-07   Elapse:  32:38      1226
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1051 > 1401            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030752 08-Mar-07 Elapse: 34:08 1311
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 818 > 1799 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

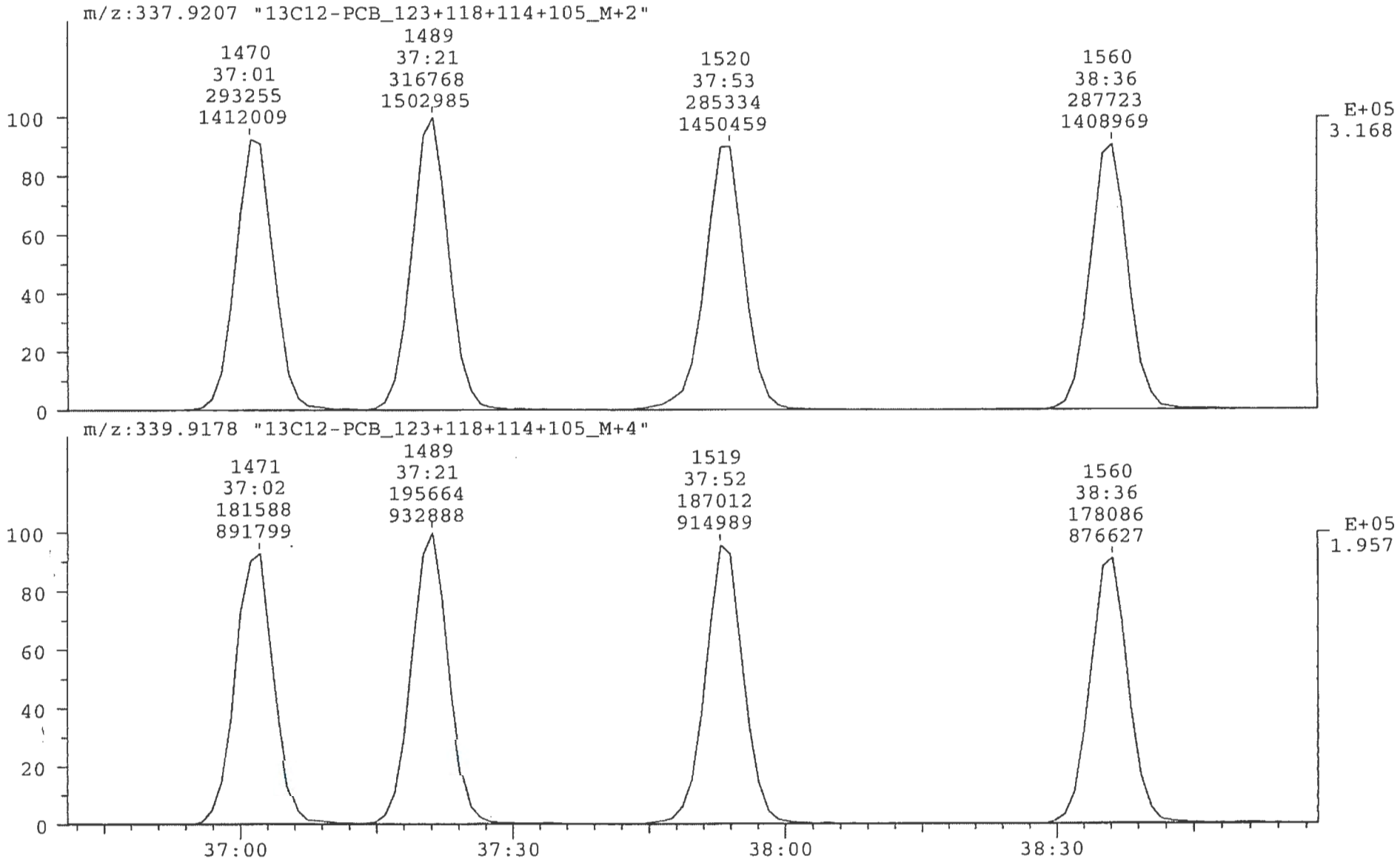


```
CHRO:  a07030752                                08-Mar-07  Elapse:  30:37      1111
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville               Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   802 > 1419           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

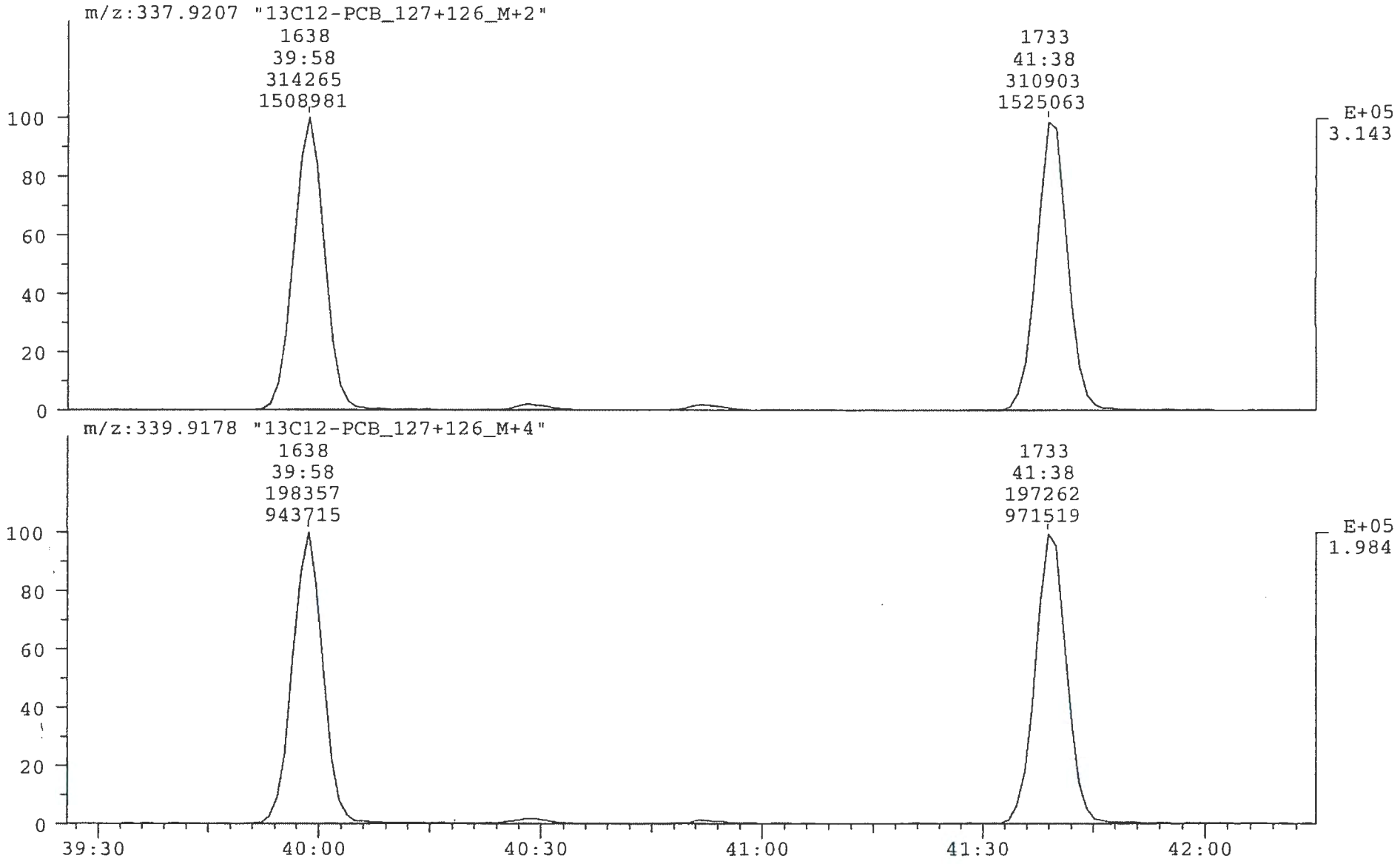


2548

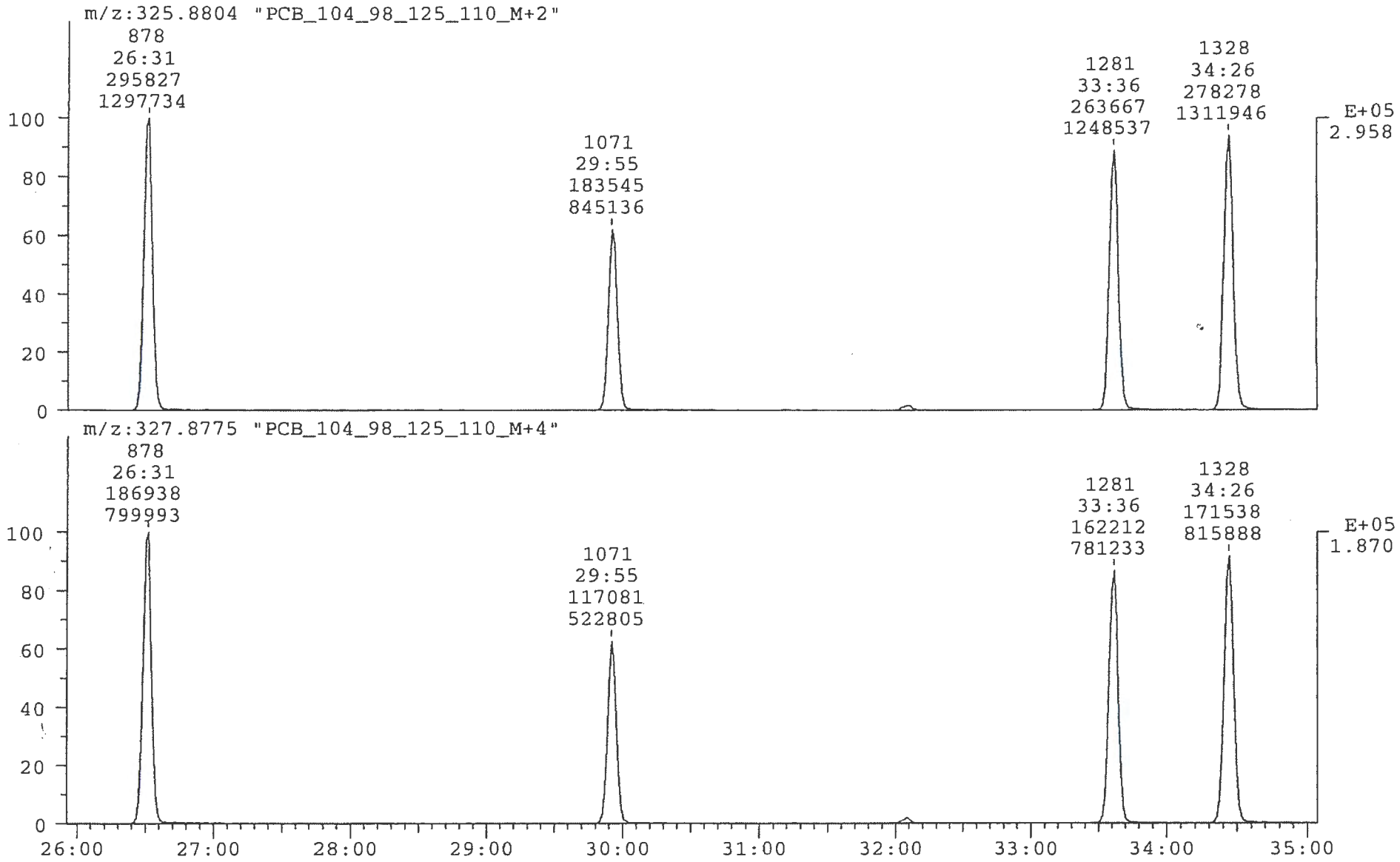
```
CHRO:  a07030752                                08-Mar-07   Elapse:  37:49       1516
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1451 > 1581           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



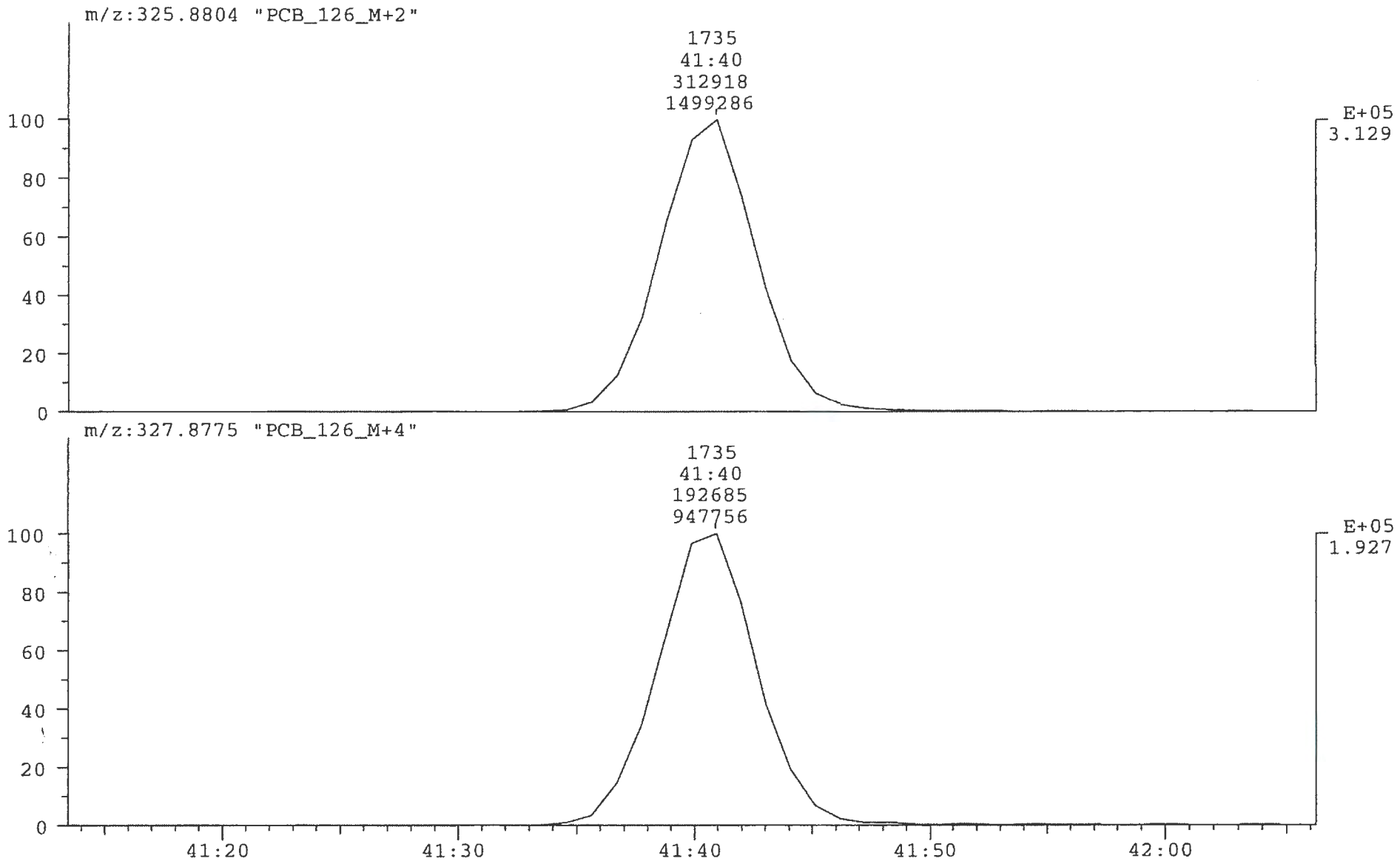
```
CHRO:  a07030752                                08-Mar-07   Elapse:  40:50      1687
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1607 > 1767           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030752 08-Mar-07 Elapse: 30:29 1104
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 844 > 1364 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

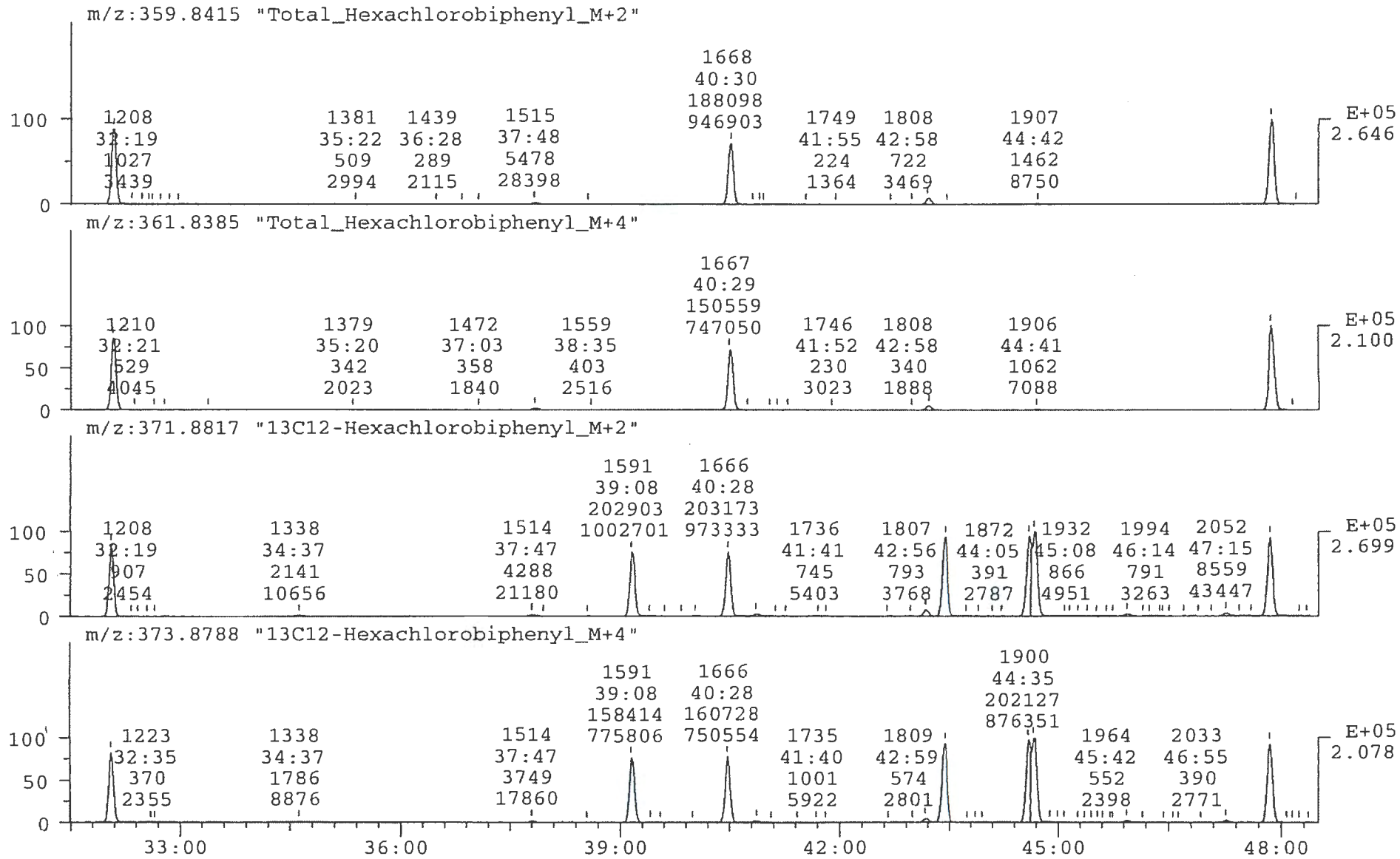


```
CHRO:  a07030752                                08-Mar-07   Elapse:  41:39      1734
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1709 > 1759           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

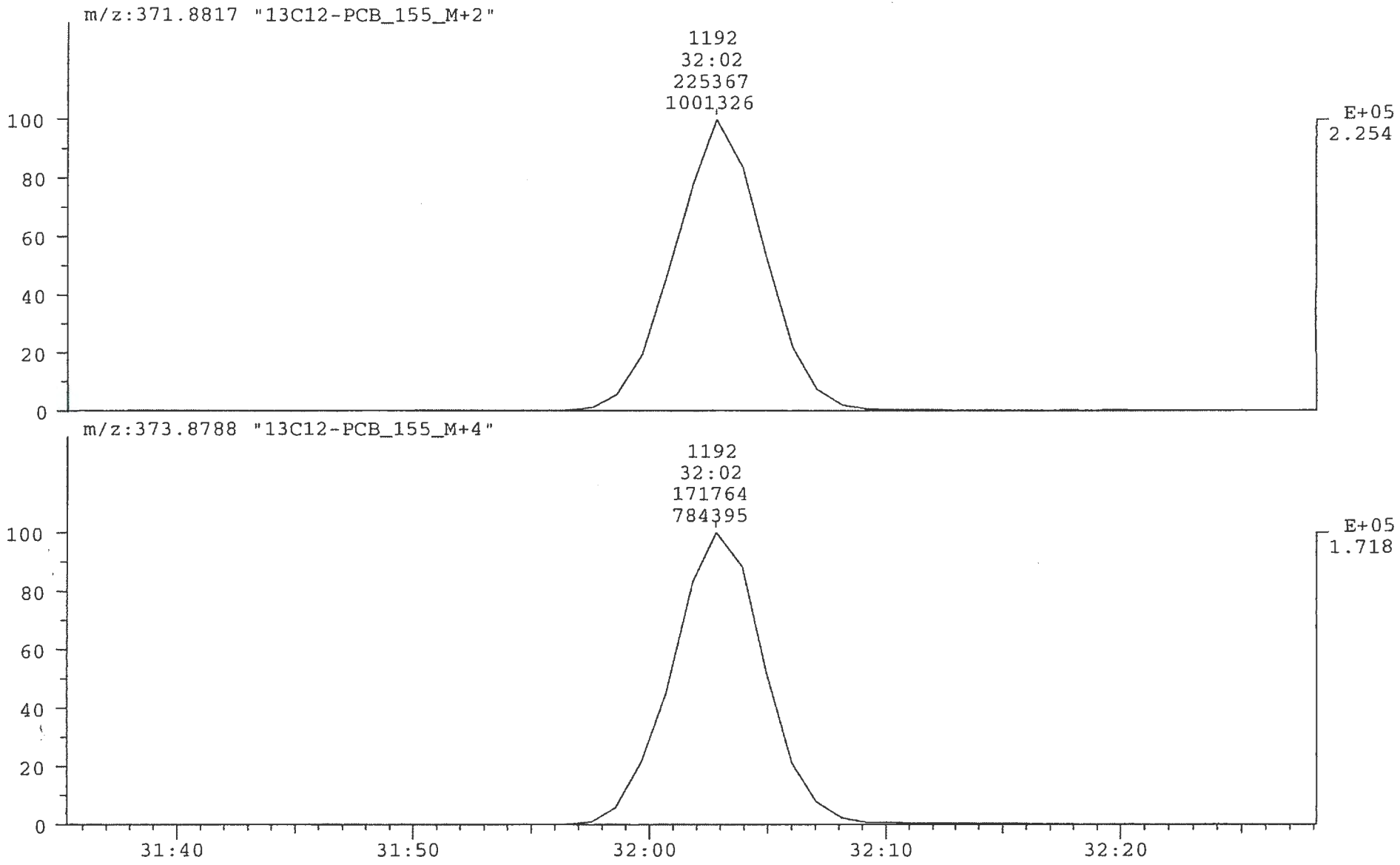


2552

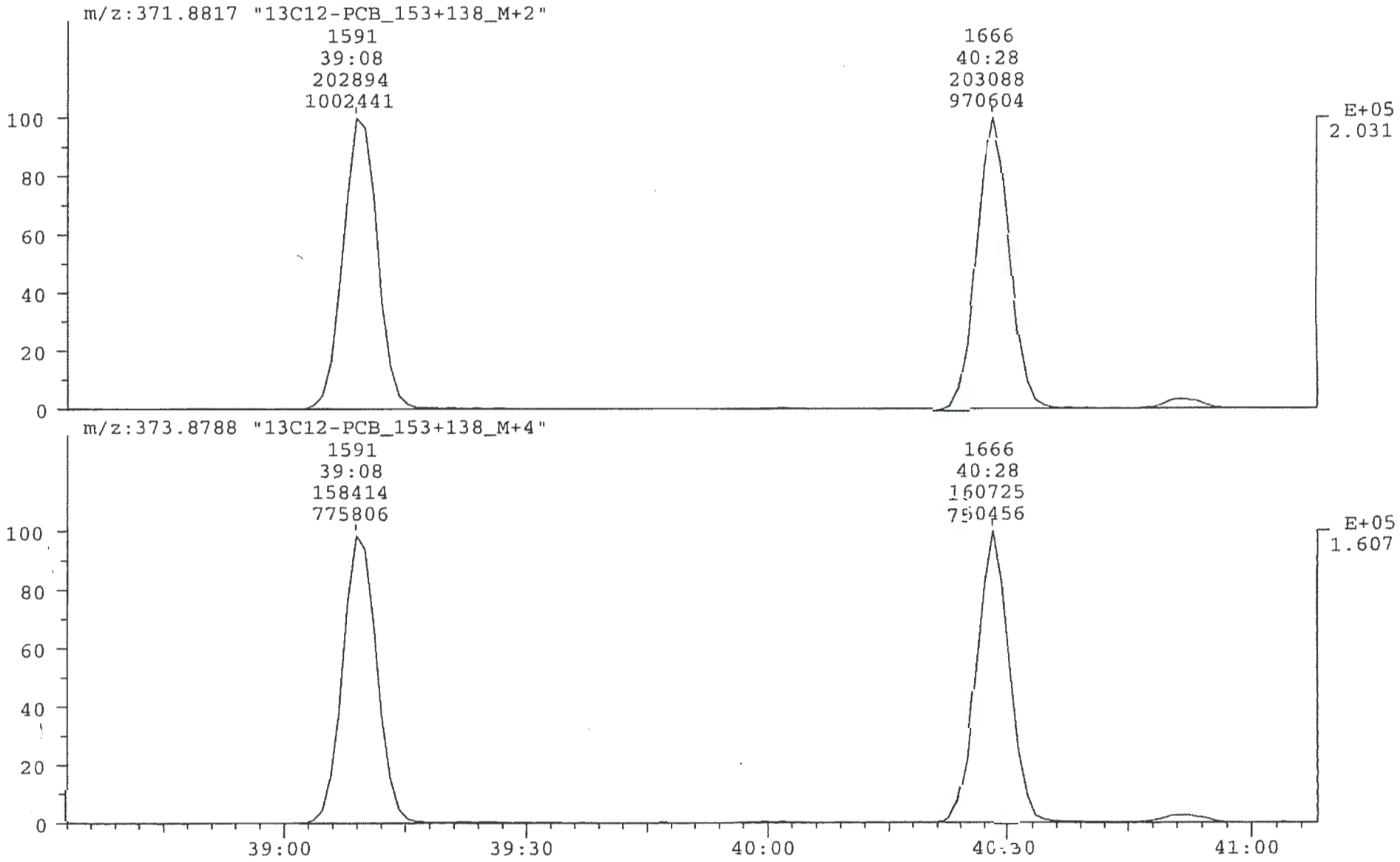
CHRO: a07030752 08-Mar-07 Elapse: 39:59 1639
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1160 > 2122 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



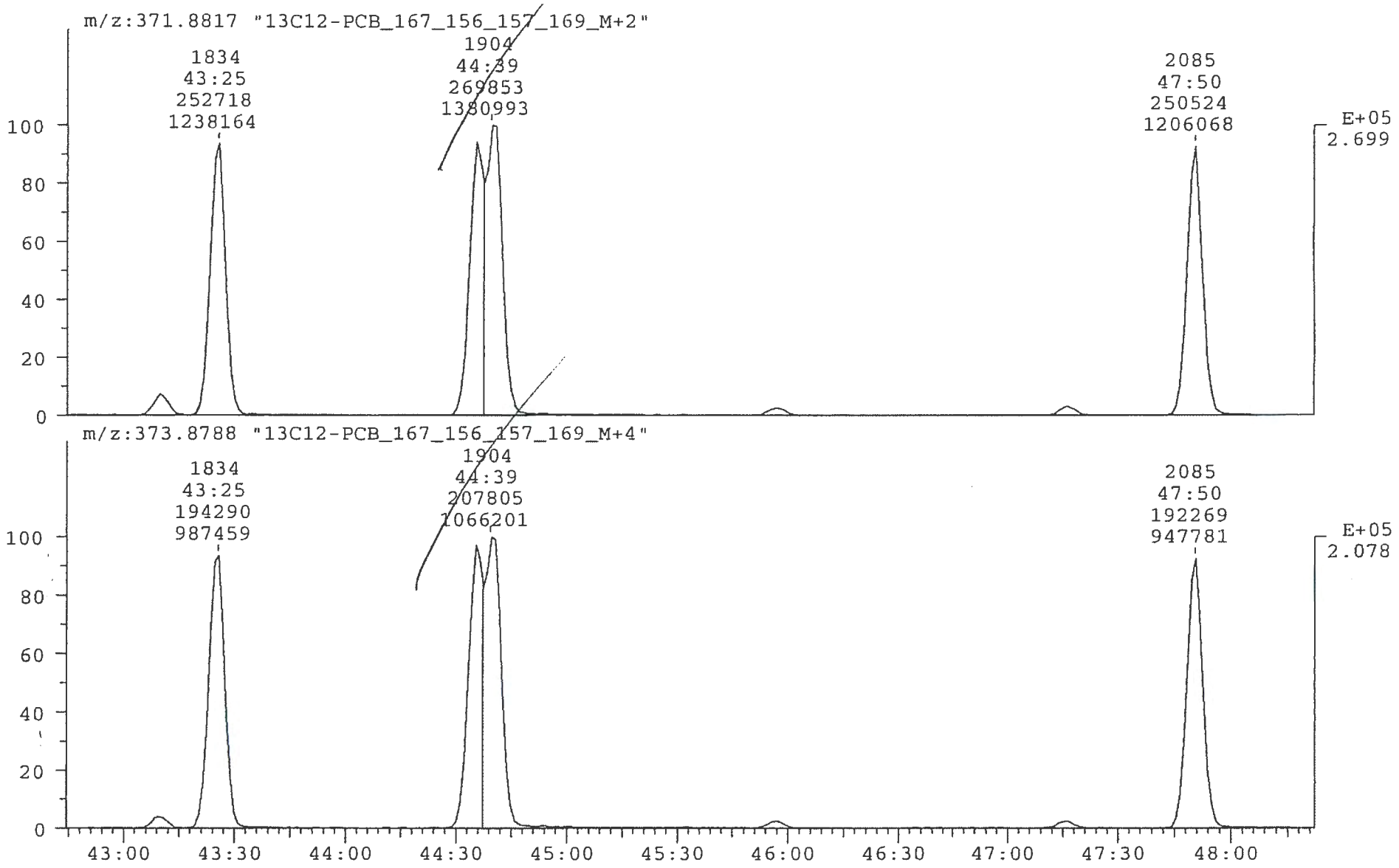
```
CHRO:  a07030752                              08-Mar-07   Elapse:  32:01      1191
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1166 > 1216         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



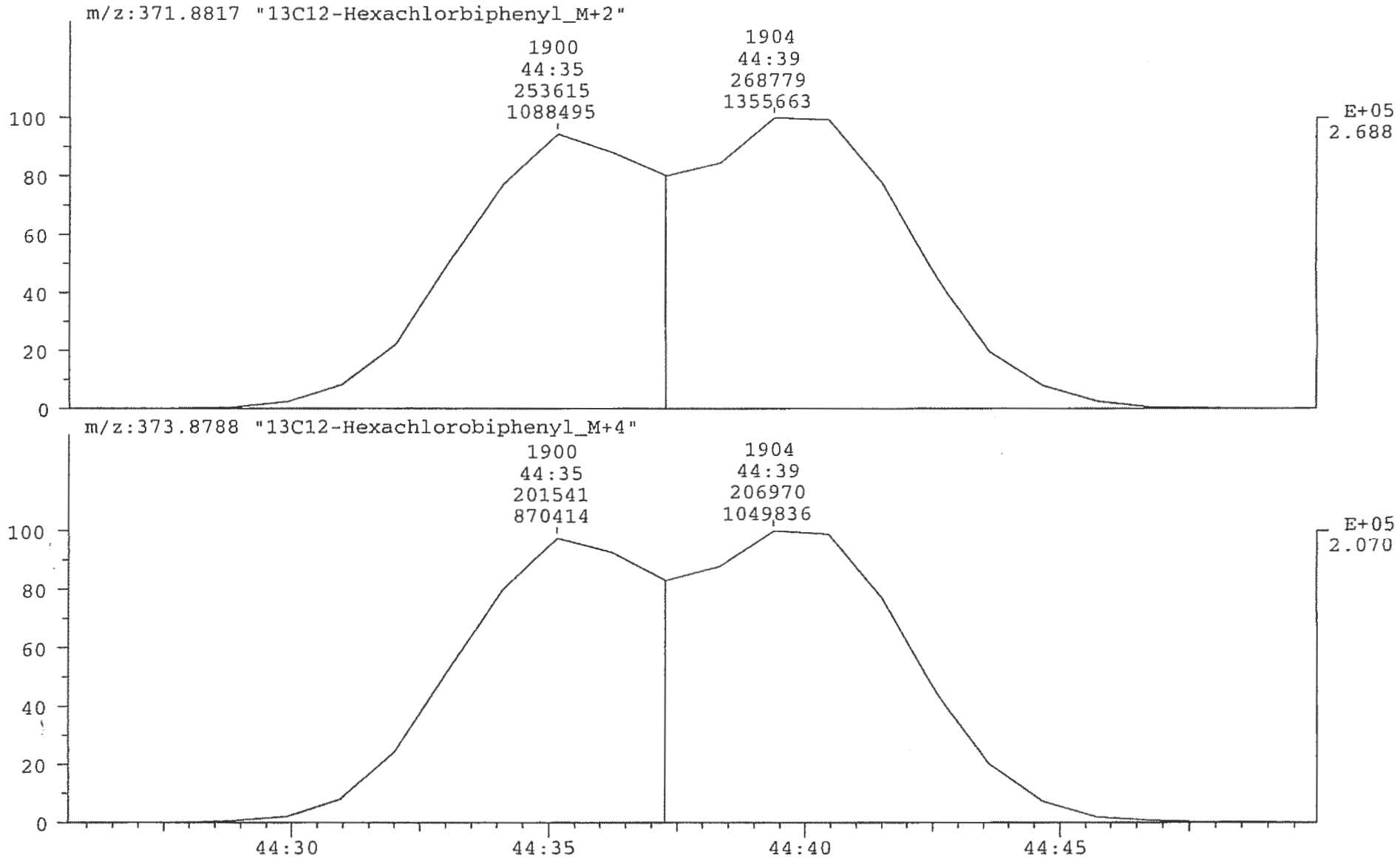
```
CHRO:  a07030752                                08-Mar-07   Elapse:  39:50      1630
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1557 > 1704            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



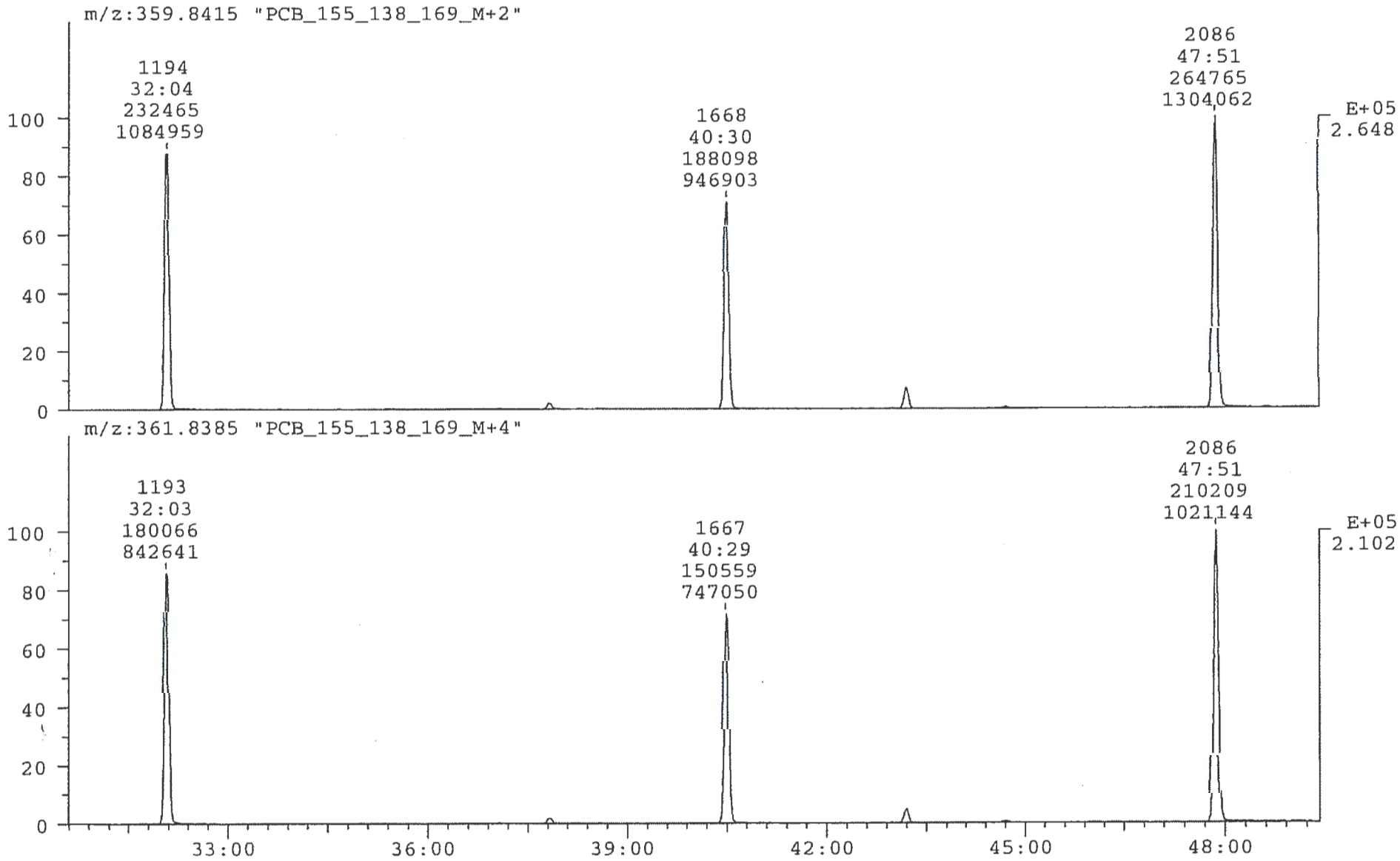
CHRO: a07030752 08-Mar-07 Elapse: 45:38 1960
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1795 > 2115 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



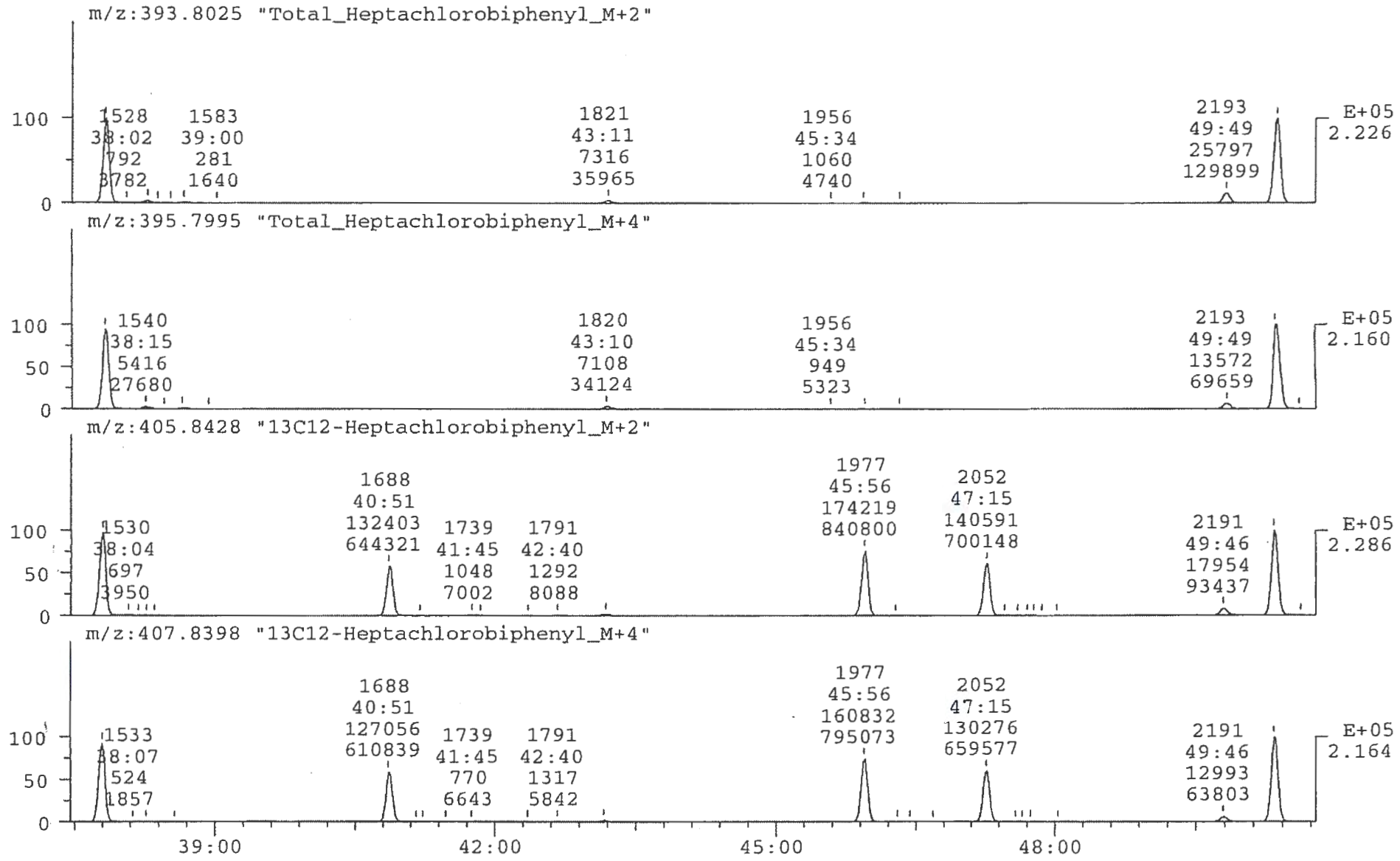
CHRO: a07030752 08-Mar-07 Elapse: 56:11 2555
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1891 > 1914 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



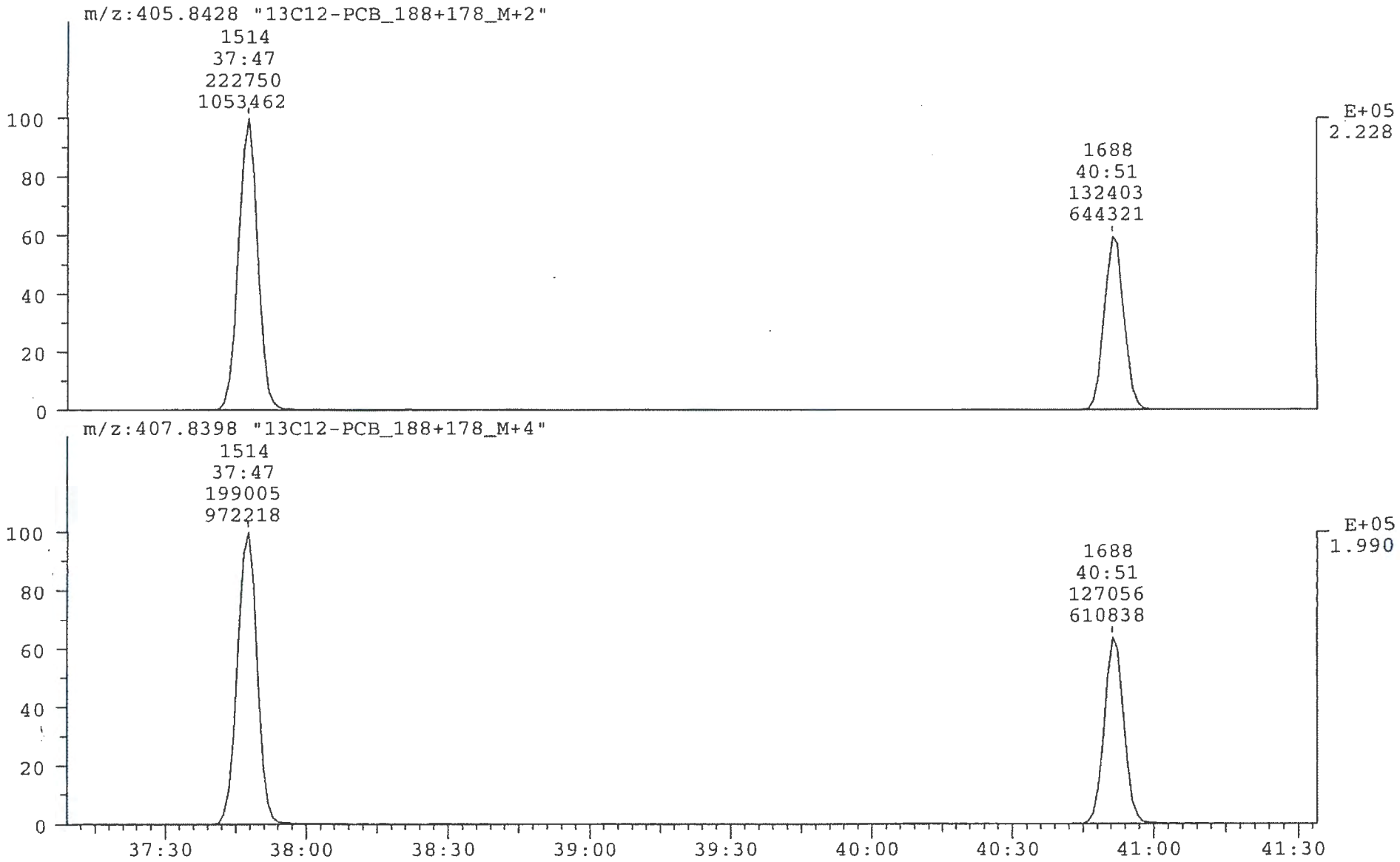
CHRO: a07030752 08-Mar-07 Elapse: 39:59 1639
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1109 > 2169 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



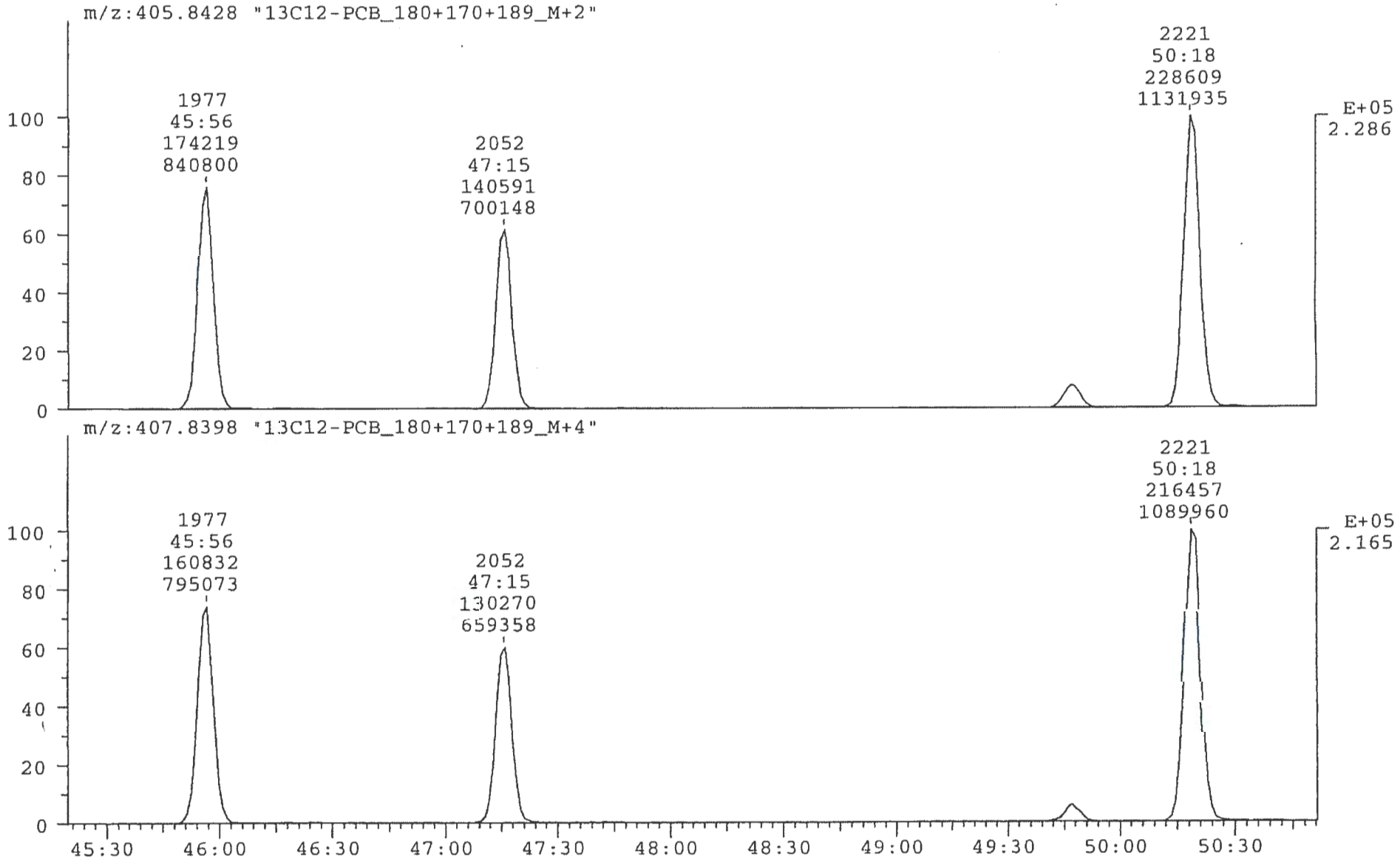
CHRO: a07030752 08-Mar-07 Elapse: 44:05 1872
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1495 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



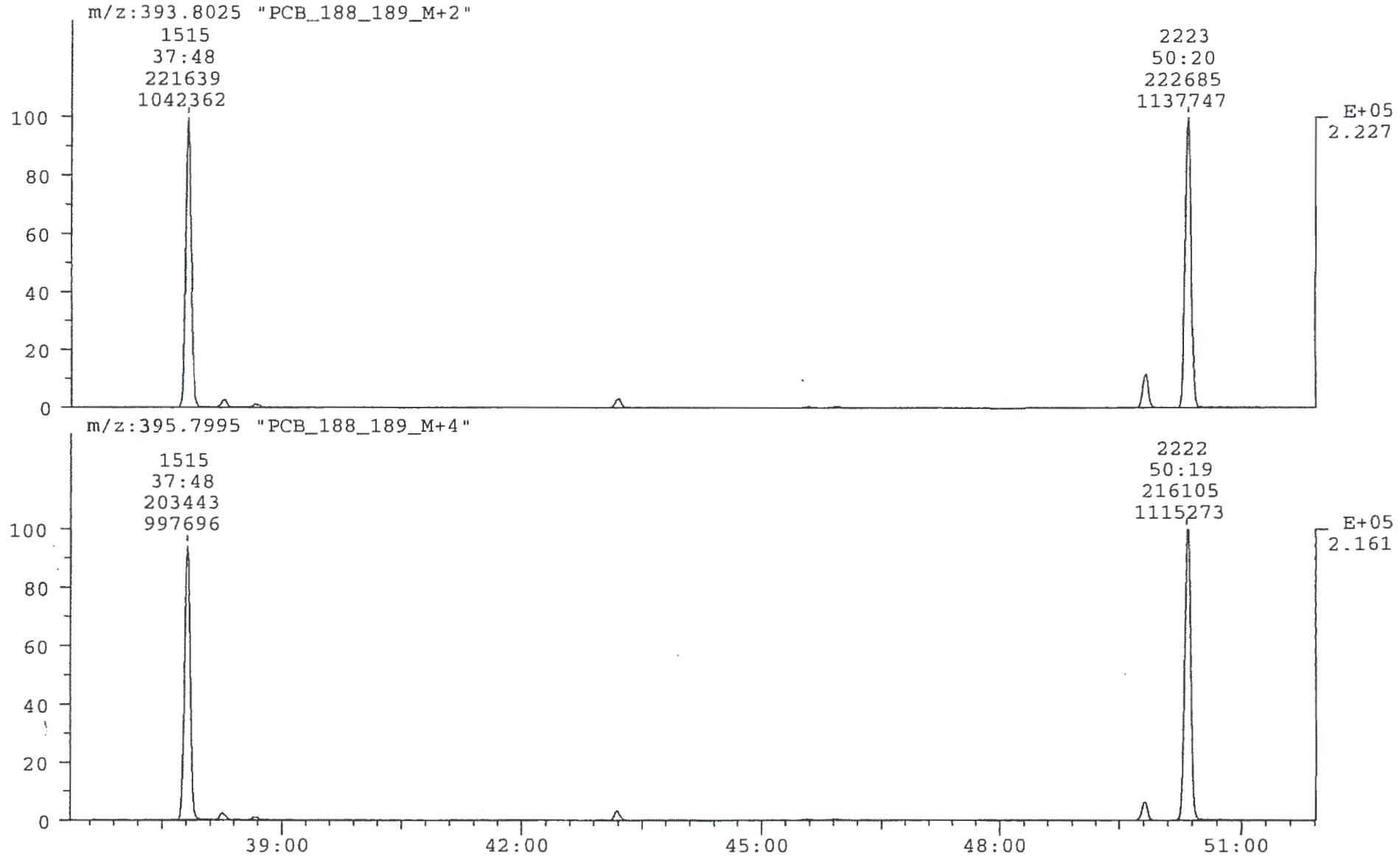
```
CHRO:  a07030752                                08-Mar-07   Elapse:  39:21      1603
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1478 > 1728           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030752 08-Mar-07 Elapse: 48:08 2102
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1942 > 2252 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

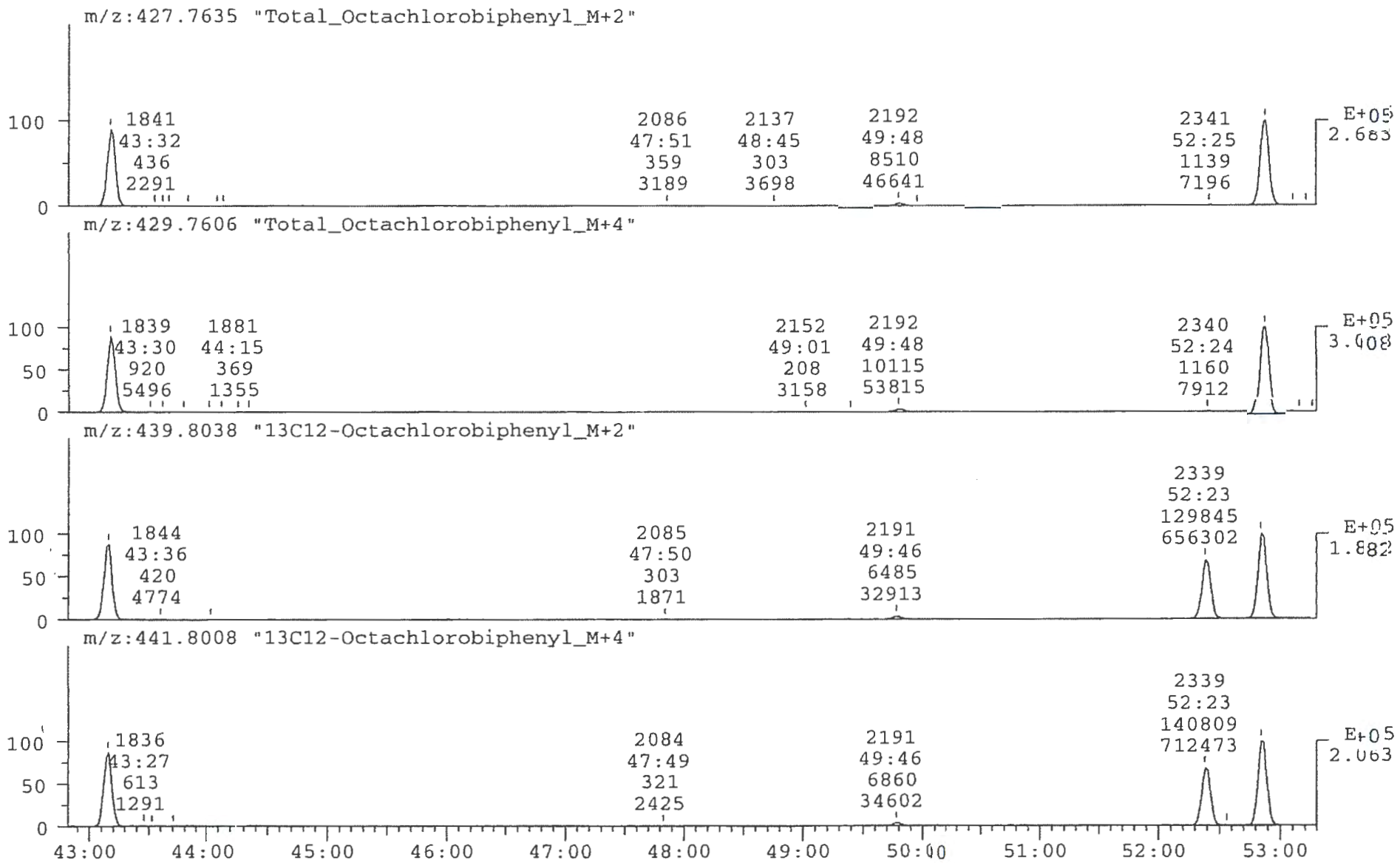


```
CHRO:  a07030752                                08-Mar-07   Elapse:  44:05      1872
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1432 > 2312           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

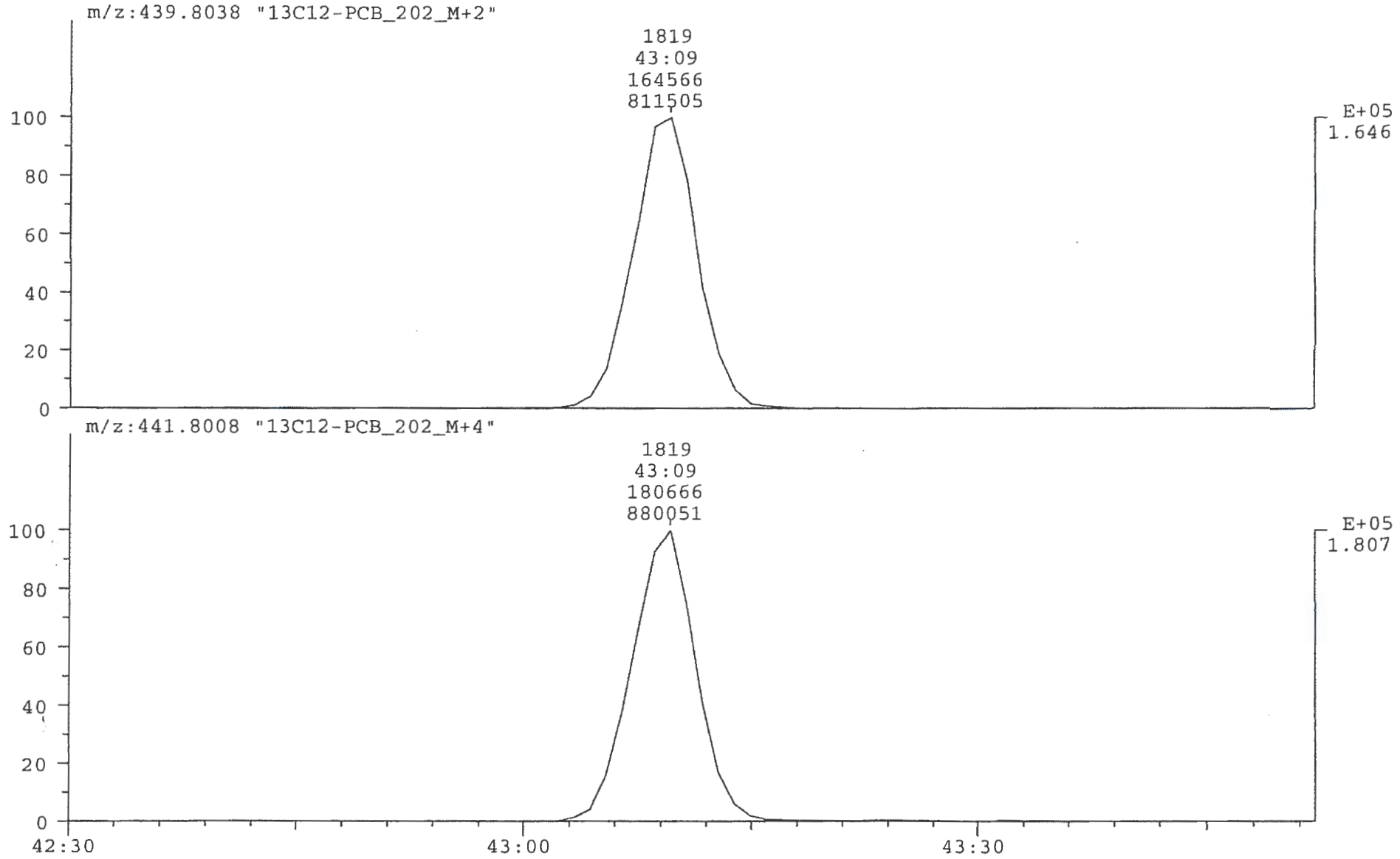


2562

CHRO: a07030752 08-Mar-07 Elapse: 48:03 2097
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1799 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

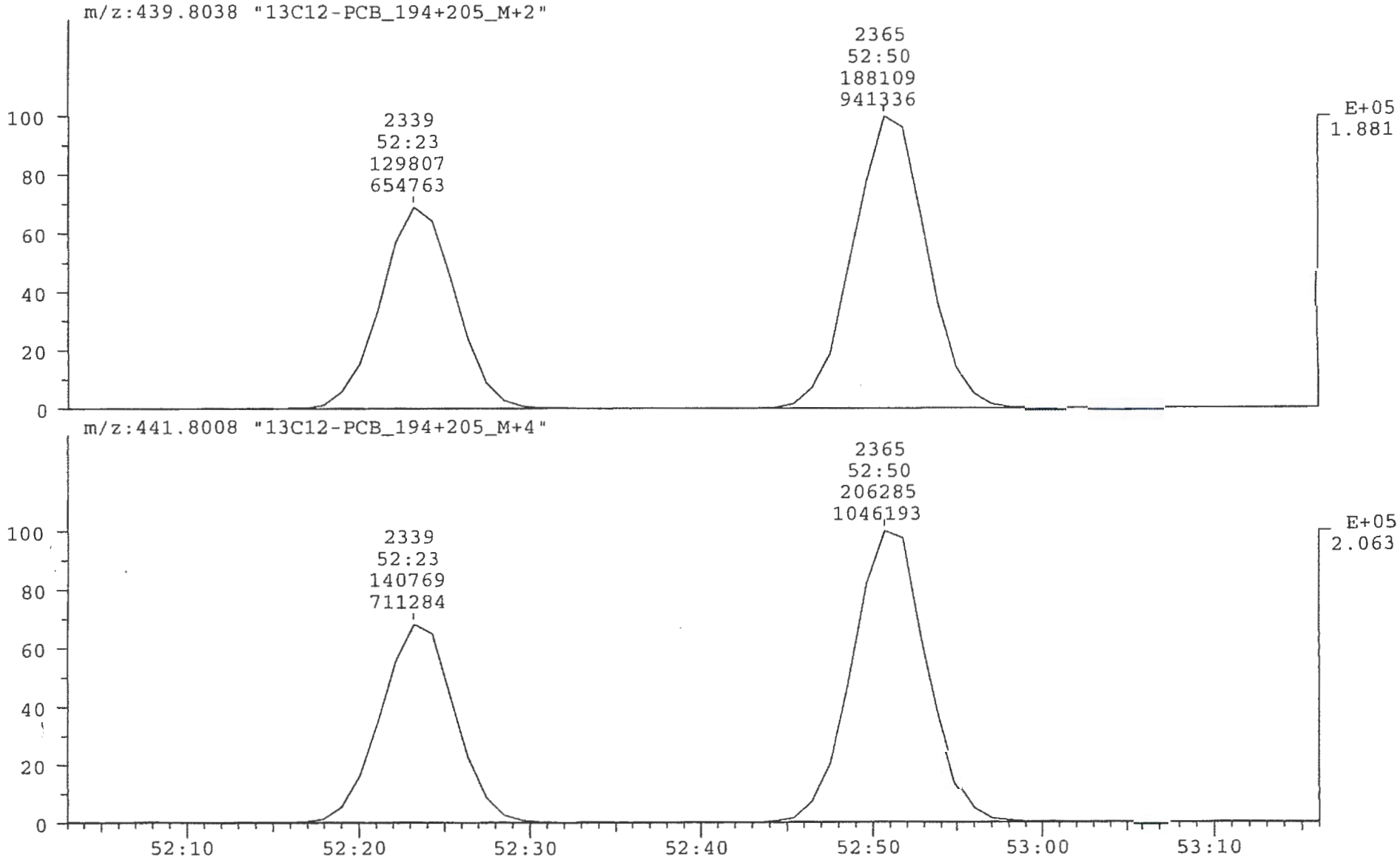


```
CHRO:  a07030752                                08-Mar-07   Elapse:  43:07      1817
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1782 > 1859           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

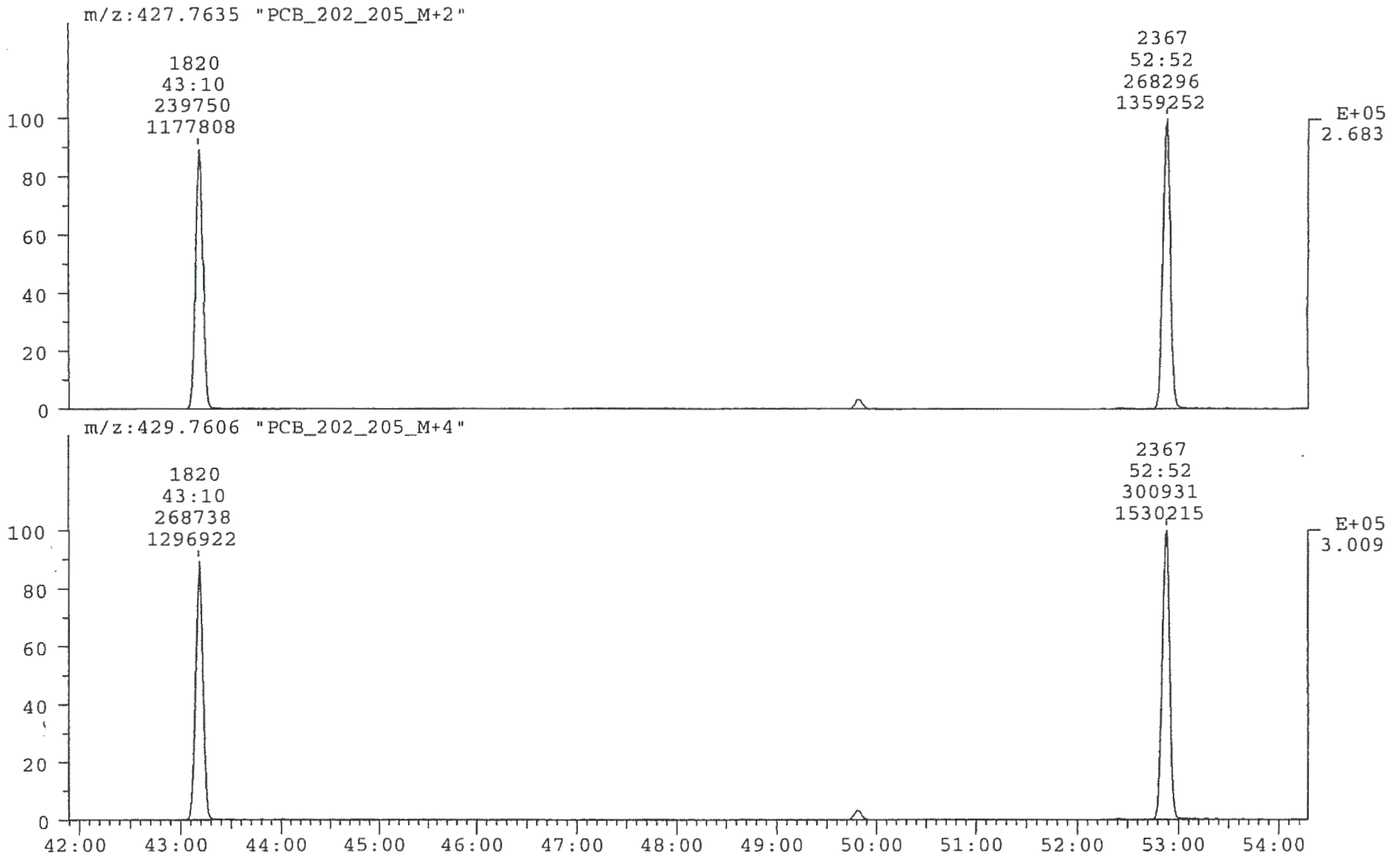


2564

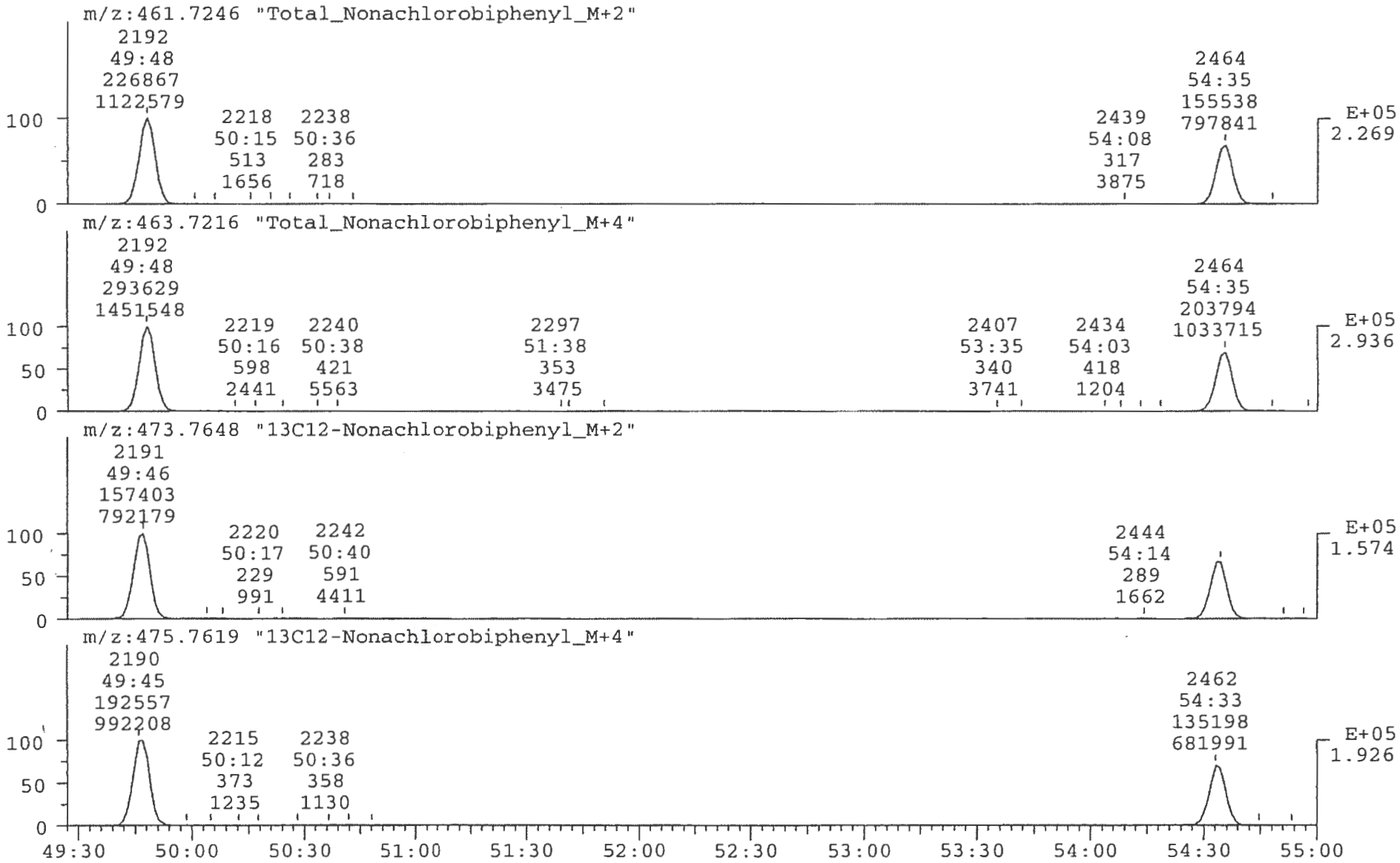
CHRO: a07030752 08-Mar-07 Elapse: 52:39 2354
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 02:18:49 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 2320 > 2389 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



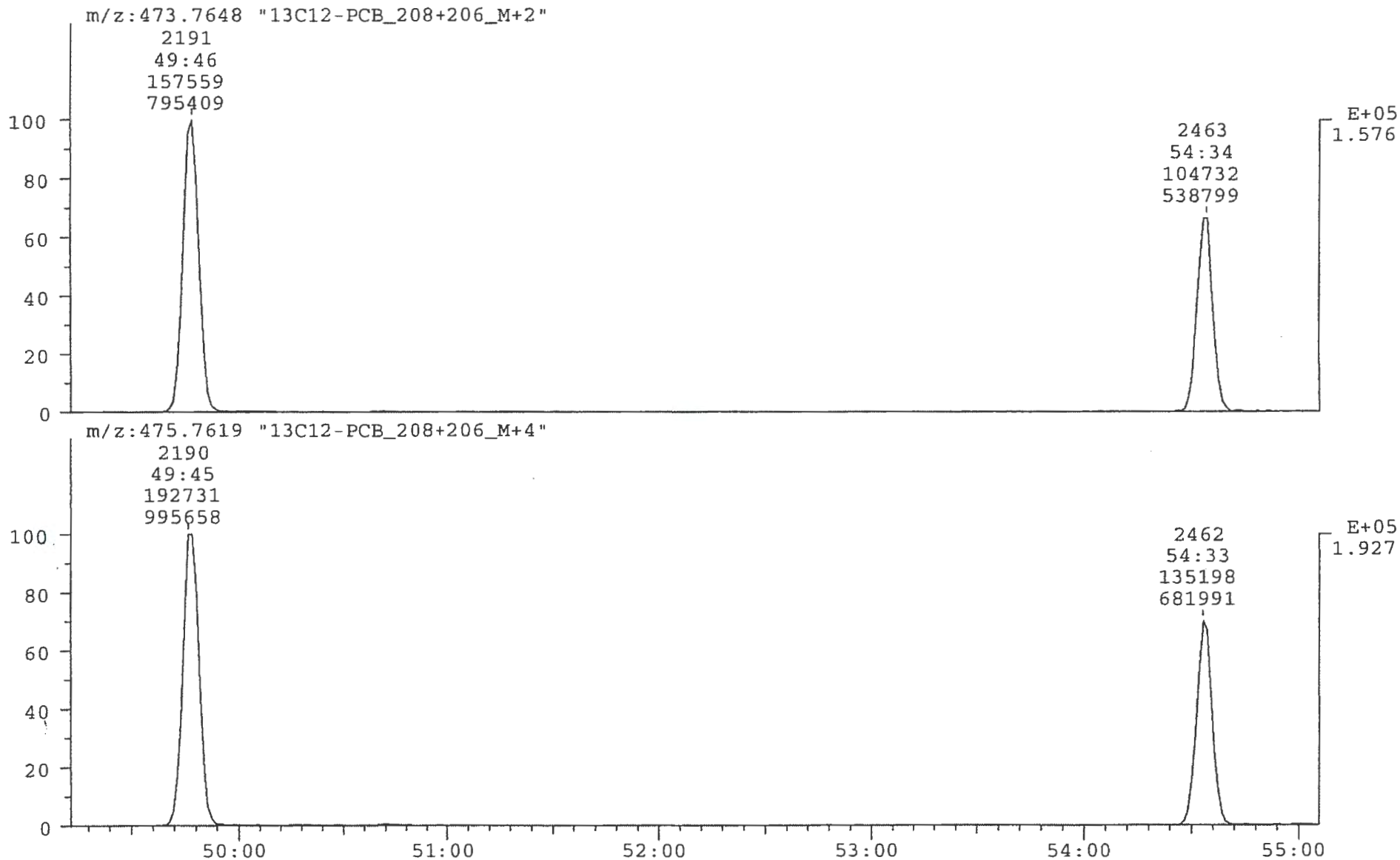
```
CHRO:  a07030752                          08-Mar-07   Elapse:  48:03      2097
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1           Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville          Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1747 > 2447     Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3          Label :  -3, 3.0
Disp:  Height  Area
```



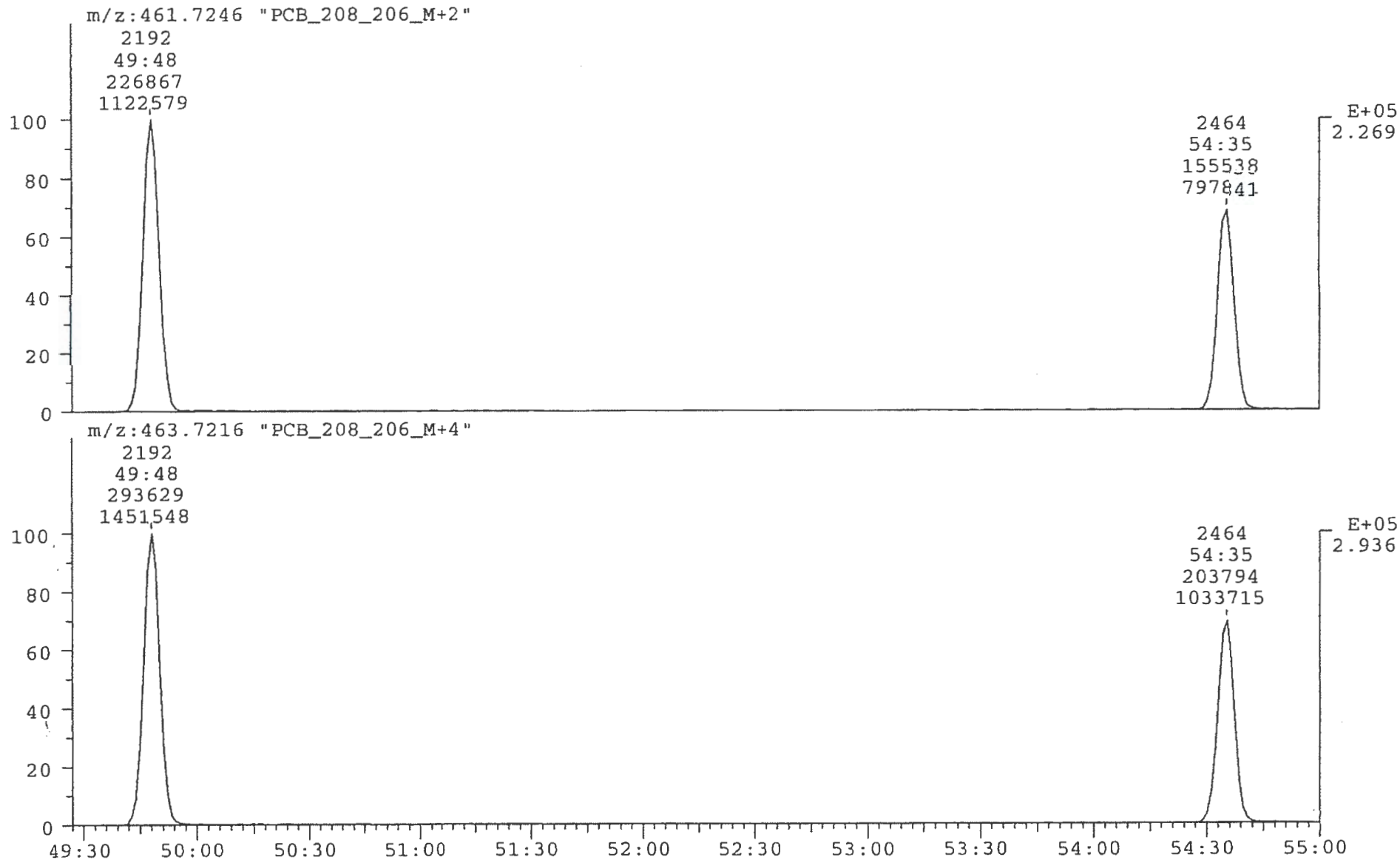
```
CHRO:  a07030752                                08-Mar-07   Elapse:  52:12      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2172 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



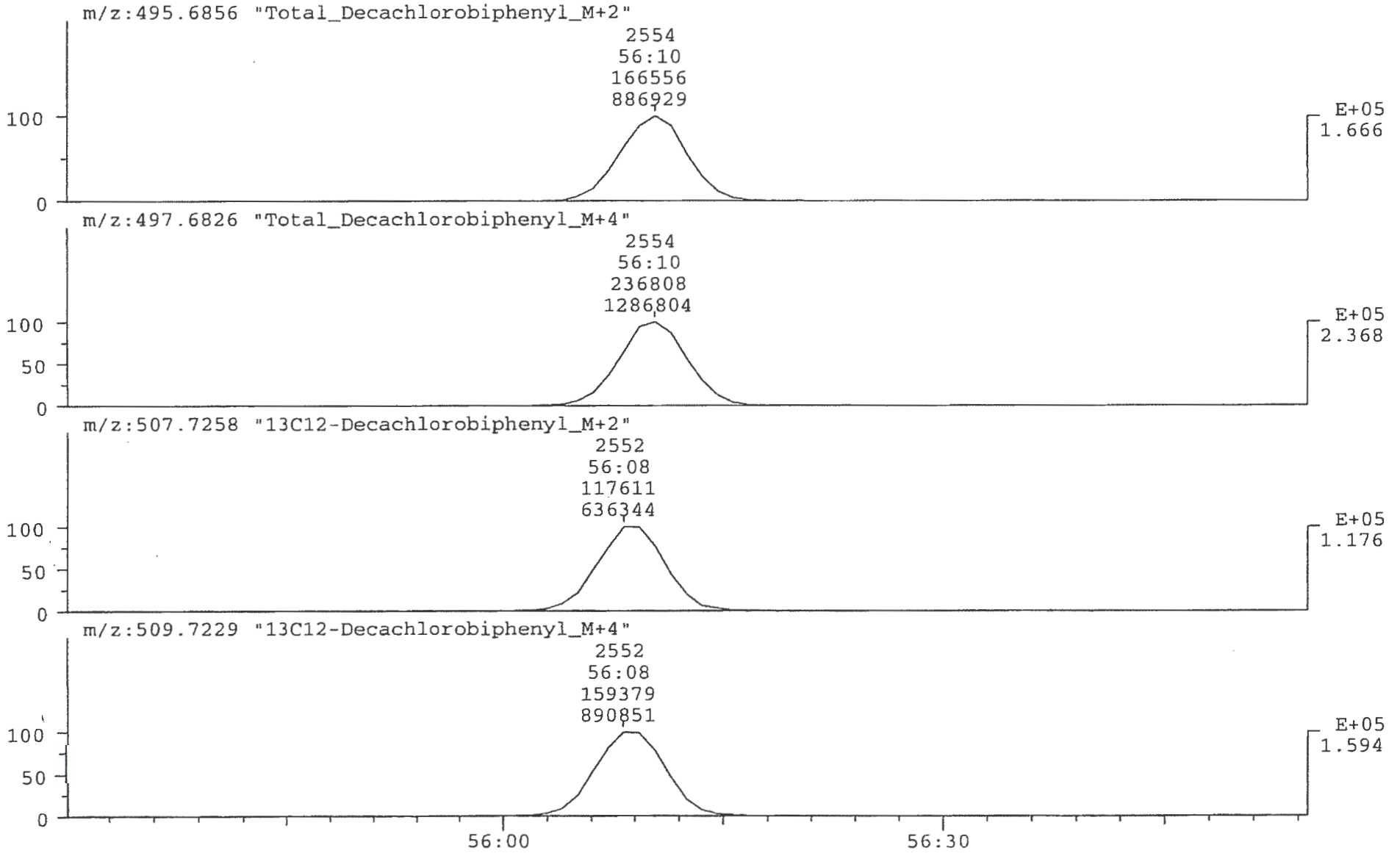
```
CHRO:  a07030752                                08-Mar-07   Elapse:  52:11      2328
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2163 > 2493           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030752                                08-Mar-07   Elapse:  52:12      2329
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2172 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030752                                08-Mar-07   Elapse:  56:12      2556
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  02:18:49   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2516 > 2596           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030752
Study: 1668 RT Mix5/Run2
Sample: WO=2990:75Mix5 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 7
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 10 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	l	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	l	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
- Purge time 1.5 min
- Purge flow 40.0 ml/min
- Gas saver is on
- Saver time 3.0 min
- Saver flow 15.0 ml/min

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	252.0000
FVINLET	256.0000	FVSRC	831.0000	FWIN	0.7000
GCTC	202.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.0098	HVANAL	1304.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4769.2260	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2606.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8600	TCURR	0.7031
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 02:18:49.2

Autosampler has injected sample from vial 7
MID Time Window 1: Resolution is 8226
MID Time Window 2: Resolution is 7911
MID Time Window 3: Resolution is 8165
MID Time Window 4: Resolution is 8803
Analysis stopped at: 08-Mar-07 03:15:52.2 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030753.	Prep Date		SDG No	
Analysis ID	96253	Prep Exp Date		Date Received	
Analysis Date	03/08/07 07:27	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	170	153	68	61	1.11 *	/	
	PCB 1 (BZ)	12:13	00:00	0	1333911	421813	507238	158261	3.16	AVV/AVV	
	PCB 3 (BZ)	14:25	00:00	0	1278624	407021	424079	137441	3.14	ABV/AVV	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	203	273	81	109	0.74 *	/	
	13C12-PCB 1	12:12	00:00	0	2404791	764300	1018478	324377	3.15	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2410715	730117	782033	237483	3.30	ABV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	233	455	93	182	0.51 *	/	
	PCB 4 (BZ)	14:43	00:00	0	549614	353591	181965	116891	1.55	AVV/AVV	
	PCB 15 (BZ)	20:41	00:00	0	989997	630100	253560	159424	1.57	AVV/AVV	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	350	228	140	91	1.54	/	
	13C12-PCB 4	14:42	00:00	0	1037282	636624	352738	218311	1.63	AVV/ABV	
	13C12-PCB 9	16:39	00:00	0	1654679	1025060	504708	316046	1.61	ABV/ABV	
	13C12-PCB 8	17:32	00:00	0	1773810	1106573	501607	307638	1.60	AVV/AVV	
	13C12-PCB 15	20:40	00:00	0	1788971	1122389	463719	288257	1.59	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	163	150	65	60	1.08	/	
	PCB 19 (BZ)	17:54	00:00	0	361395	334716	102997	91940	1.08	ABB/ABV	
	PCB 16 (BZ)	20:40	00:00	0	318268	307065	82944	82372	1.04	ABV/ABV	D
	PCB 37 (BZ)	27:47	00:00	0	820823	788173	188098	175672	1.04	ABV/ABV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	560	295	224	118	1.90 *	/	
	13C12-PCB 19	17:52	00:00	0	610657	571396	165175	161304	1.07	AVV/AVV	
	13C12-PCB 32	21:08	00:00	0	1090927	1003788	269341	253212	1.09	AVV/AVV	
	13C12-PCB 31	23:23	00:00	0	1655629	1558345	399119	381479	1.06	ABV/ABV	
	13C12-PCB 28	23:41	00:00	0	1554541	1486567	365211	344356	1.05	AVV/AVV	
	13C12-PCB 37	27:46	00:00	0	1492263	1417836	323212	302355	1.05	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	150	163	60	65	0.92 *	/	
	PCB 54 (BZ)	21:02	00:00	0	639884	810881	159958	209541	0.79	ABV/ABV	
	PCB 43 (BZ)	25:47	00:00	0	714628	913321	167720	219857	0.78	ABV/ABV	
	PCB 44 (BZ)	26:35	00:00	0	757065	969813	169960	216953	0.78	ABV/ABV	M
	PCB 74 (BZ)	30:22	00:00	0	1207172	1574736	266831	347340	0.77	AVV/AVV	M
	PCB 56 (BZ)	31:24	00:00	0	1137036	1449472	247093	312471	0.78	AVV/ABV	D
	PCB 77 (BZ)	35:06	00:00	0	1150558	1482942	244464	311103	0.78	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	150	140	60	56	1.07 *	/	
	13C12-PCB 54	21:01	00:00	0	536832	668892	138544	177112	0.80	ABV/ABV	
	13C12-PCB 52	25:32	00:00	0	773014	980016	186919	238044	0.79	ABV/ABV	
	13C12-PCB 79	33:27	00:00	0	1140566	1446967	244907	311143	0.79	ABV/ABV	D
	13C12-PCB 81	34:30	00:00	0	1040874	1292116	216193	273226	0.81	ABV/ABV	D

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comm limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030753.	Prep Date		SDG No	
Analysis ID	96253	Prep Exp Date		Date Received	
Analysis Date	03/08/07 07:27	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	13C12-PCB 77	35:05	00:00	0	1086503	1331433	223488	268849	0.82	AVV/ABB	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	170	145	68	58	1.17 *	/	
	PCB 104 (BZ)	26:29	00:00	0	1329450	824968	310956	195233	1.61	ABV/ABV	
	PCB 98 (BZ)	29:54	00:00	0	874360	542217	195874	119919	1.61	ABV/ABV	D
	PCB 125 (BZ)	33:35	00:00	0	1273646	802579	275164	172355	1.59	AVV/ABV	D
	PCB 110 (BZ)	34:24	00:00	0	1336658	837086	284256	174543	1.60	ABV/AVV	D
	PCB 126 (BZ)	41:39	00:00	0	1525528	989467	316421	208661	1.54	ABV/ABV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	170	165	68	66	1.03 *	/	
	13C12-PCB 104	26:28	00:00	0	1208250	761854	280277	172665	1.59	ABV/ABV	D
	13C12-PCB 95	29:30	00:00	0	907211	559529	197716	122357	1.62	ABV/ABV	D
	13C12-PCB 101	32:21	00:00	0	905596	584224	198129	125788	1.55	AVV/ABV	
	13C12-PCB 111	34:58	00:00	0	1189828	746312	260478	157118	1.59	AVV/ABV	
	13C12-PCB 123	37:00	00:00	0	1432538	917808	298918	197501	1.56	ABV/ABV	D
	13C12-PCB 118	37:19	00:00	0	1527264	965798	320520	202450	1.58	AVV/AVV	D
	13C12-PCB 114	37:52	00:00	0	1503299	922503	305931	189944	1.63	AVV/AVV	D
	13C12-PCB 105	38:34	00:00	0	1461633	896563	305280	188335	1.63	ABV/ABB	D
	13C12-PCB 127	39:56	00:00	0	1514380	963151	311615	199022	1.57	ABV/AVV	
	13C12-PCB 126	41:38	00:00	0	1542194	972911	318624	194313	1.59	ABV/AVV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	145	138	58	55	1.05	/	
	PCB 155 (BZ)	32:03	00:00	0	1107470	849018	234834	183431	1.30	ABV/ABV	
	PCB 138 (BZ)	40:28	00:00	0	971271	778199	204751	162922	1.25	ABV/ABV	
	PCB 169 (BZ)	47:50	00:00	0	1315054	1039290	259010	201454	1.27	ABV/ABV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	180	173	72	69	1.04 *	/	
	13C12-PCB 155	32:02	00:00	0	1012565	794566	217482	166540	1.27	ABV/ABV	D
	13C12-PCB 153	39:08	00:00	0	1015492	807630	212865	169819	1.26	ABV/ABV	D
	13C12-PCB 138	40:27	00:00	0	977834	769475	200751	155817	1.27	ABV/ABV	
	13C12-PCB 167	43:23	00:00	0	1268511	1000779	265252	211127	1.27	AVV/AVV	
	13C12-PCB 156	44:34	00:00	0	1221505	970684	247914	194388	1.26	ABV/ABV	D
	13C12-PCB 157	44:38	00:00	0	1265359	983866	280457	214968	1.29	AVB/AVB	M
	13C12-PCB 169	47:48	00:00	0	1244410	964615	250709	196315	1.29	ABV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	138	120	55	48	1.15	/	
	PCB 188 (BZ)	37:47	00:00	0	1061086	1013324	226312	205095	1.05	ABV/ABV	
	PCB 189 (BZ)	50:19	00:00	0	1183068	1131270	239974	222234	1.05	ABV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	153	148	61	59	1.03	/	
	13C12-PCB 188	37:45	00:00	0	1062855	1005882	222663	215214	1.06	ABV/ABV	D
	13C12-PCB 178	40:50	00:00	0	667113	626116	143866	132675	1.07	ABV/ABV	
	13C12-PCB 180	45:54	00:00	0	860294	790221	183495	166484	1.09	ABV/ABV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030753.	Prep Date		SDG No	
Analysis ID	96253	Prep Exp Date		Date Received	
Analysis Date	03/08/07 07:27	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

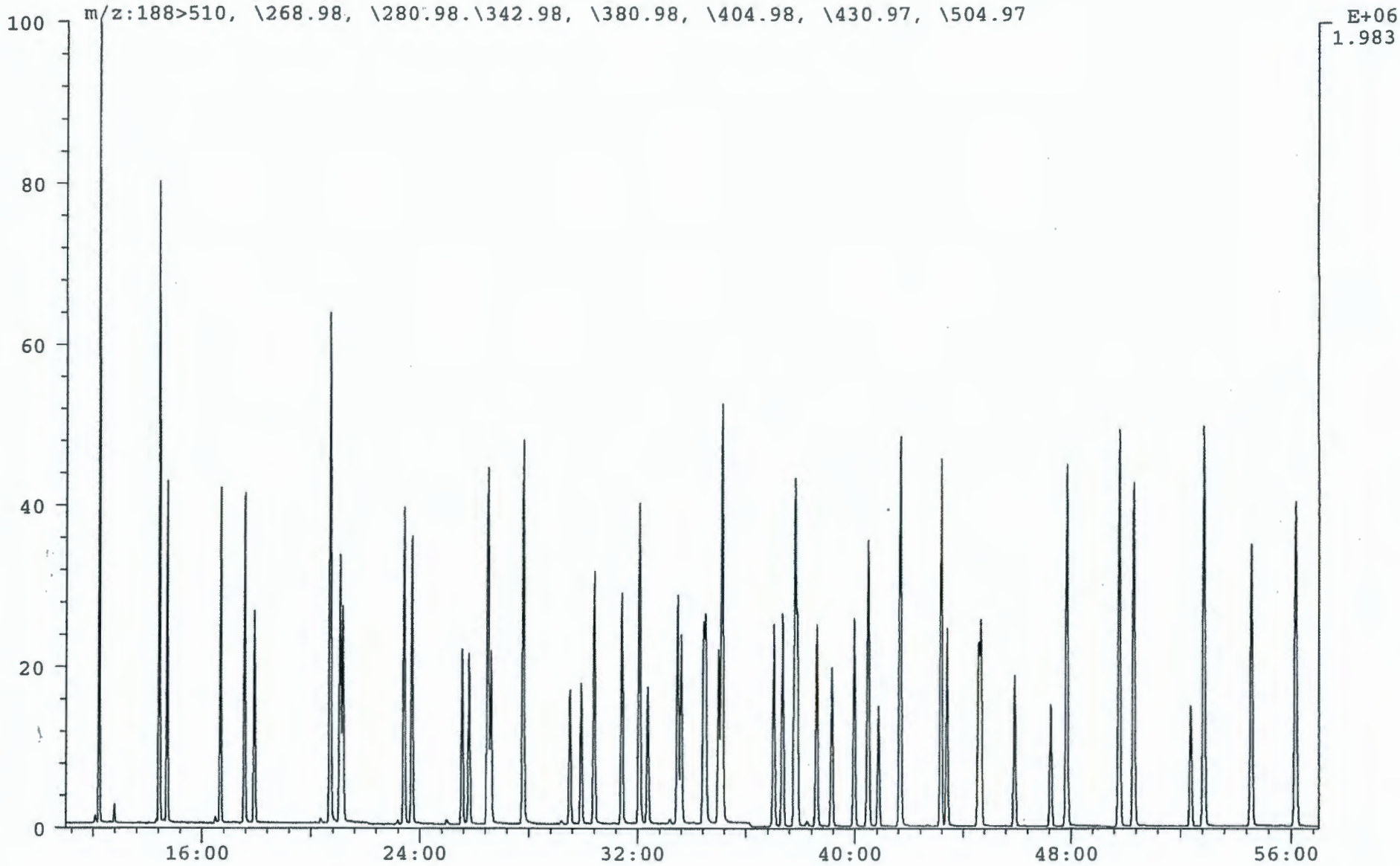
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
406					**405.8428**	**407.8398**	**405.8428**	**407.8398**	**0.89-1.21**		
	13C12-PCB 170	47:13	00:00	0	713224	686411	143136	137262	1.04	AVV/AVV	
	13C12-PCB 189	50:17	00:00	0	1158204	1119000	229574	217821	1.04	ABV/ABV	D
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**		
	Noise	00:00	00:00	0	135	145	54	58	0.93	/	
	PCB 202 (BZ)	43:08	00:00	0	1194993	1328023	246005	272668	0.90	ABV/ABV	
	PCB 205 (BZ)	52:51	00:00	0	1413416	1556878	289182	312099	0.91	ABV/ABV	
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**		
	Noise	00:00	00:00	0	115	248	46	99	0.46 *	/	
	13C12-PCB 202	43:07	00:00	0	823932	894188	166847	177943	0.92	ABV/ABV	D
	13C12-PCB 194	52:22	00:00	0	670875	724937	132237	148531	0.93	ABV/ABB	
	13C12-PCB 205	52:50	00:00	0	967386	1083792	187713	215803	0.89	AVV/ABV	
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**		
	Noise	00:00	00:00	0	150	213	60	85	0.71	/	
	PCB 208 (BZ)	49:46	00:00	0	1160266	1488865	237208	301319	0.78	ABV/ABV	
	PCB 206 (BZ)	54:33	00:00	0	833923	1051337	168086	214210	0.79	ABV/AVV	
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**		
	Noise	00:00	00:00	0	160	170	64	68	0.94 *	/	
	13C12-PCB 208	49:45	00:00	0	817714	1032645	161193	211976	0.79	AVV/AVV	
	13C12-PCB 206	54:32	00:00	0	557175	698073	108113	133423	0.80	AVV/ABV	
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**		
	Noise	00:00	00:00	0	168	133	67	53	1.26 *	/	
	PCB 209 (BZ)	56:08	00:00	0	911466	1308569	171627	245811	0.70	ABV/ABV	
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**		
	Noise	00:00	00:00	0	133	158	53	63	0.84 *	/	
	13C12-PCB 209	56:06	00:00	0	656445	919378	120162	170230	0.71	ABV/ABV	

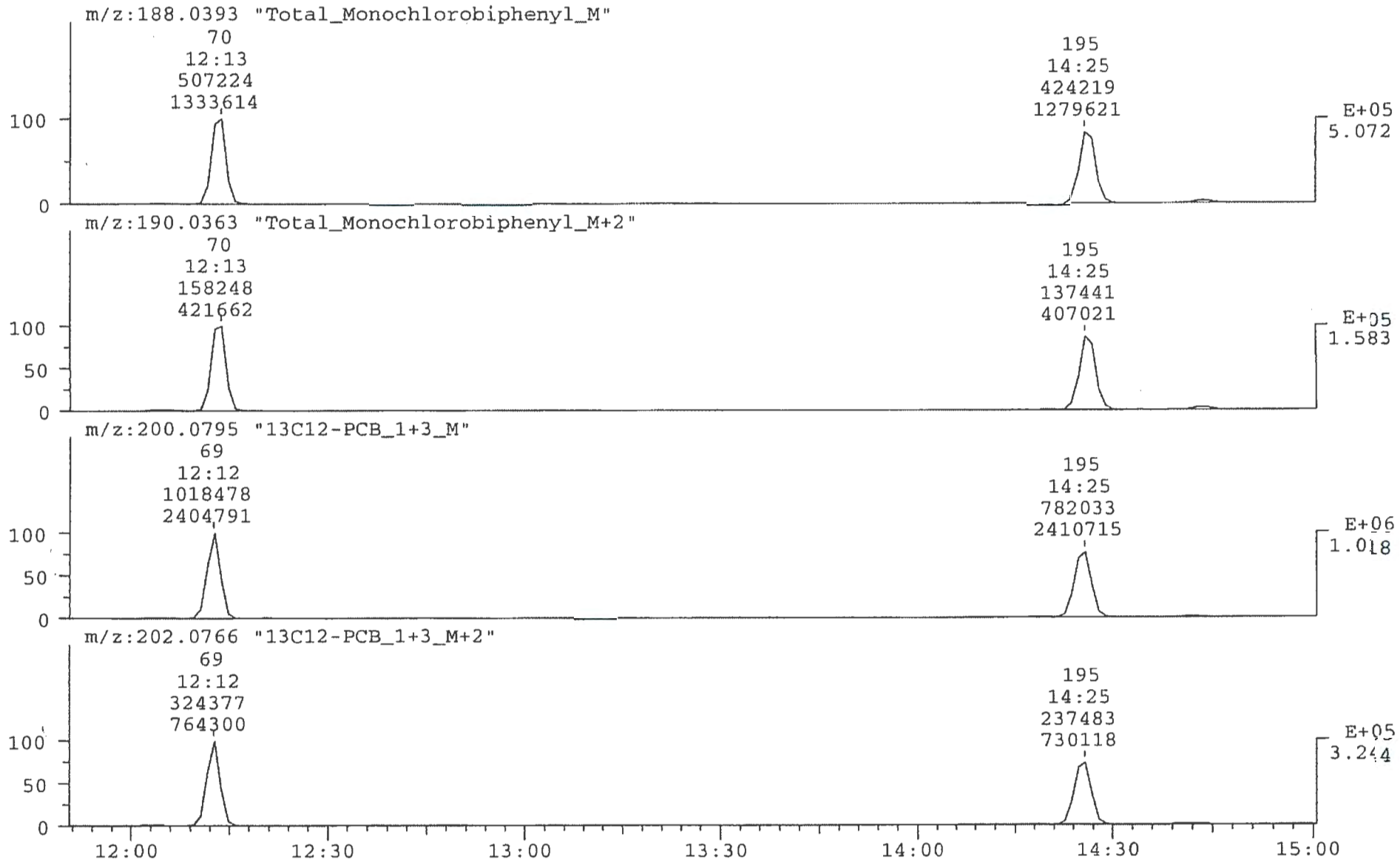
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int DCG 3-19-07
Calc DCG 3-19-07
DC BJN 3/19/07

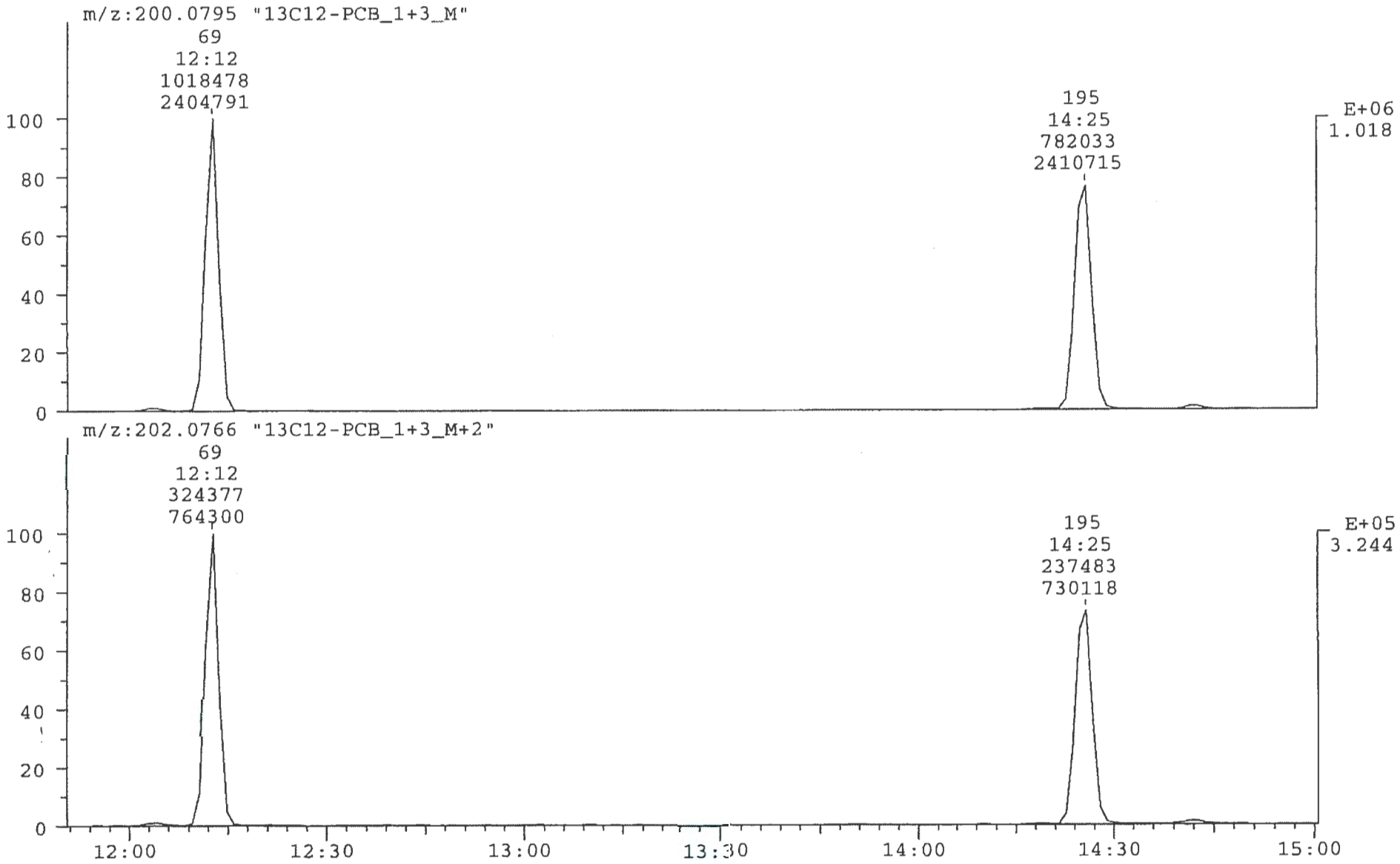
CHRO:	a07030753	08-Mar-07	Elapse:	56:13	2556
Samp:	Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1		Start :	07:27:16	2601
Comm:	Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i				
Mode:	EI +VE +LMR ESCAN LR NRM		Study :	1668 RT Mix5/Run3	
Oper:	DCG	Client: STL Knoxville	Inlet :	GC Vial 7	
Peak:	100.00 ppm	Label wndw: 2 > 2601	Masses:	181 > 510	
Area:	5, 0.50, 0	Baseline : 100, 3	Label :	0, 0.0	
Disp:	Height Area				



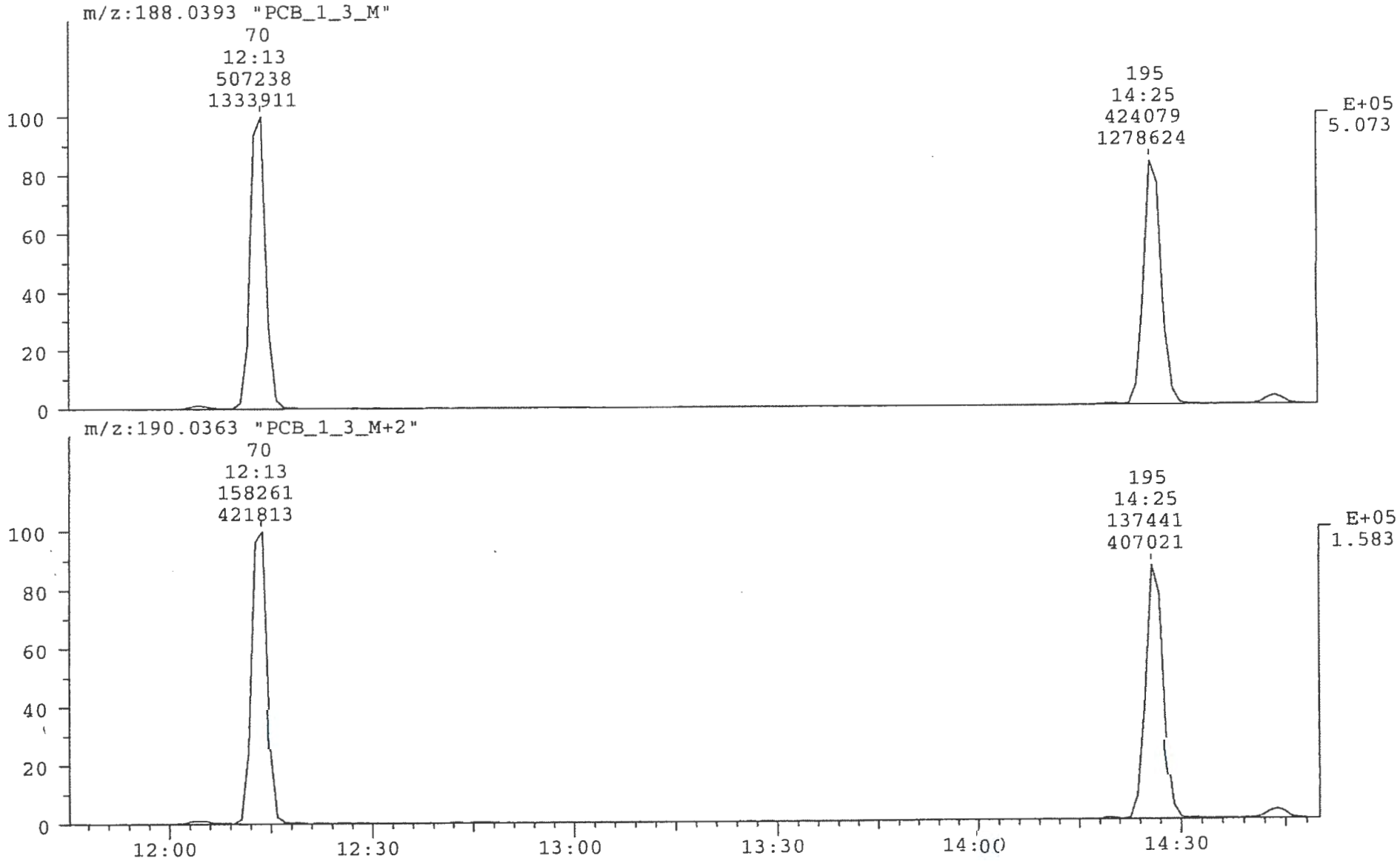
CHRO: a07030753 08-Mar-07 Elapse: 56:12 2555
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 48 > 228 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



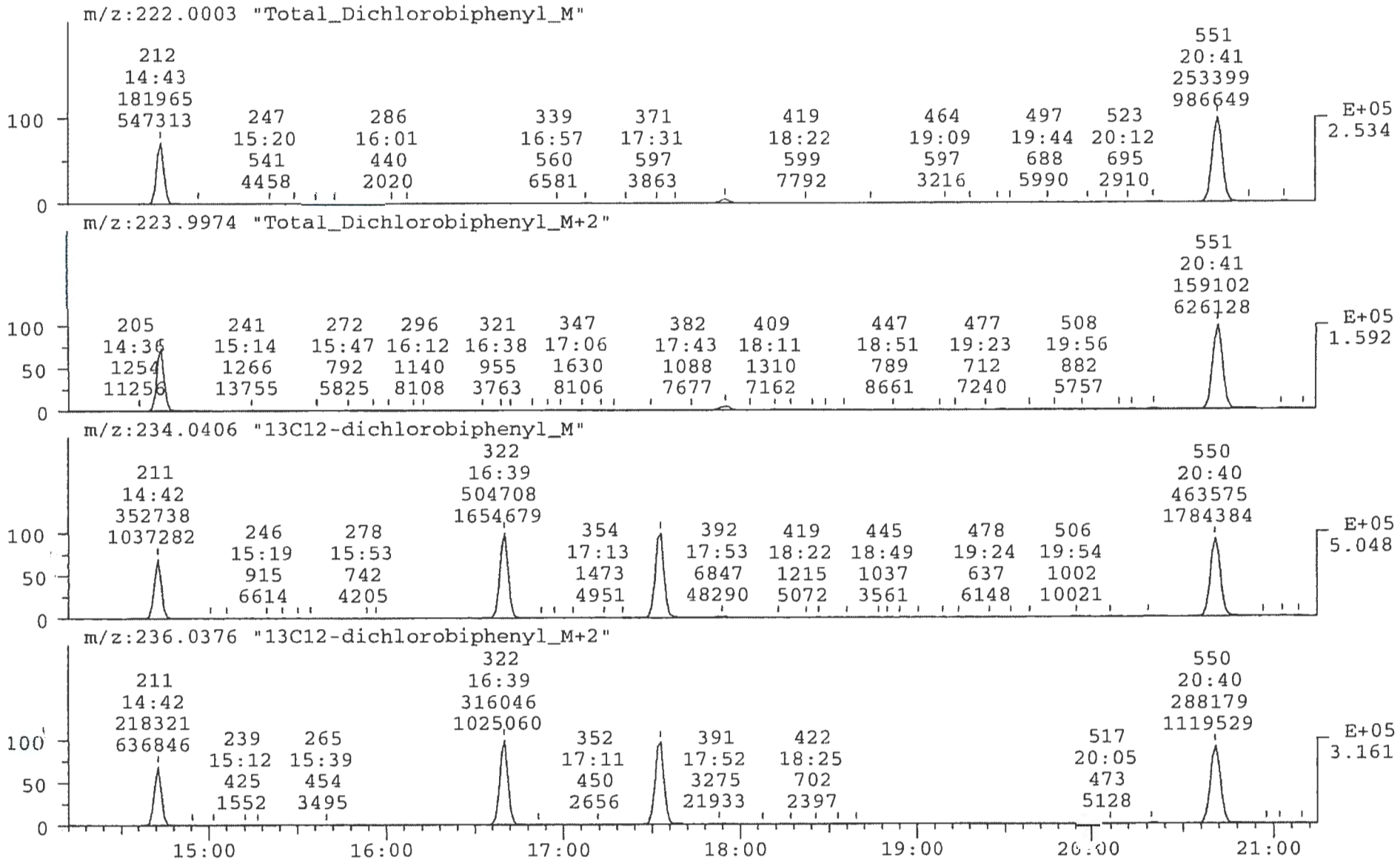
CHRO: a07030753 08-Mar-07 Elapse: 13:25.5 138
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 48 > 228 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



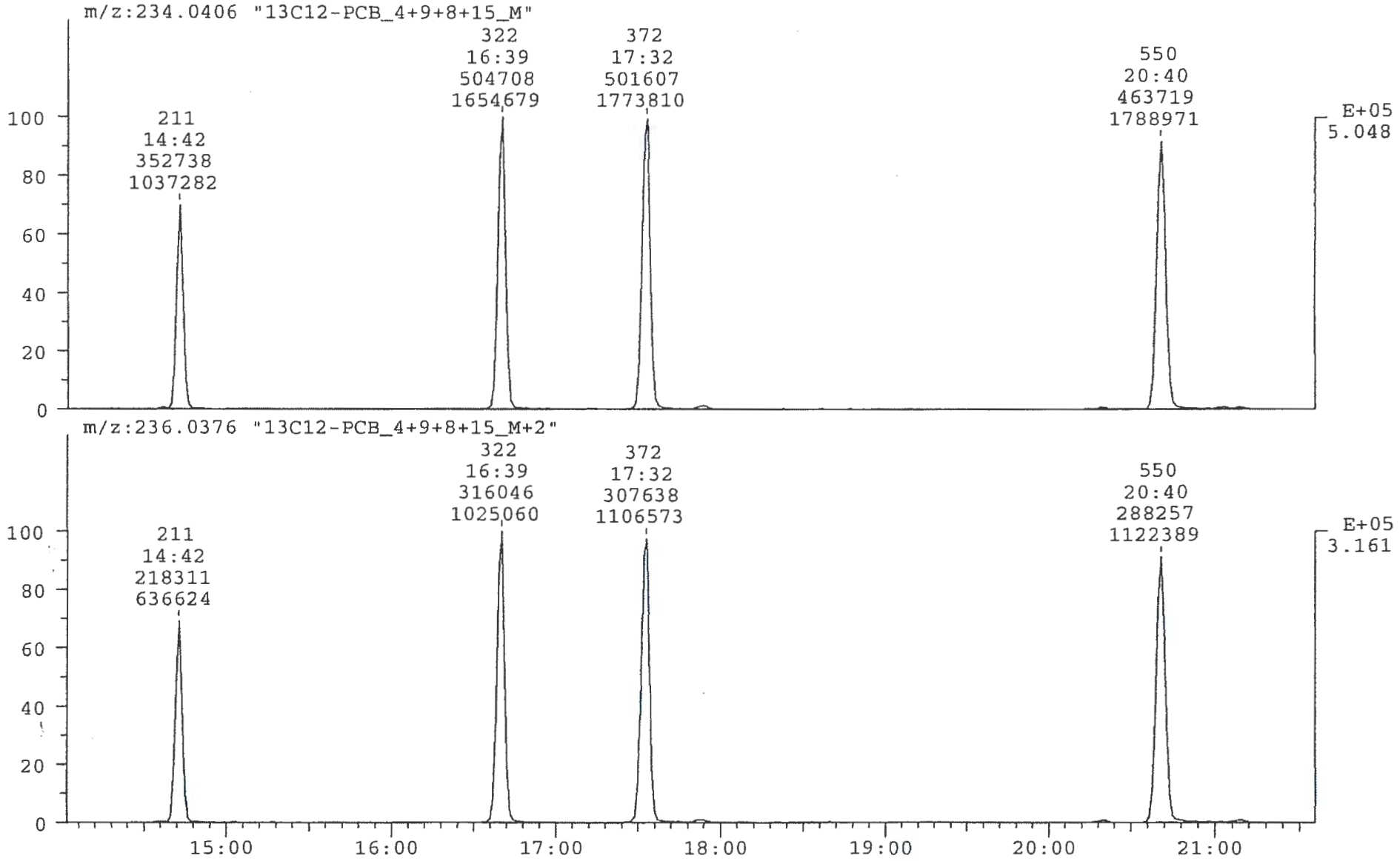
CHRO: a07030753 08-Mar-07 Elapse: 13:25.5 138
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 43 > 218 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



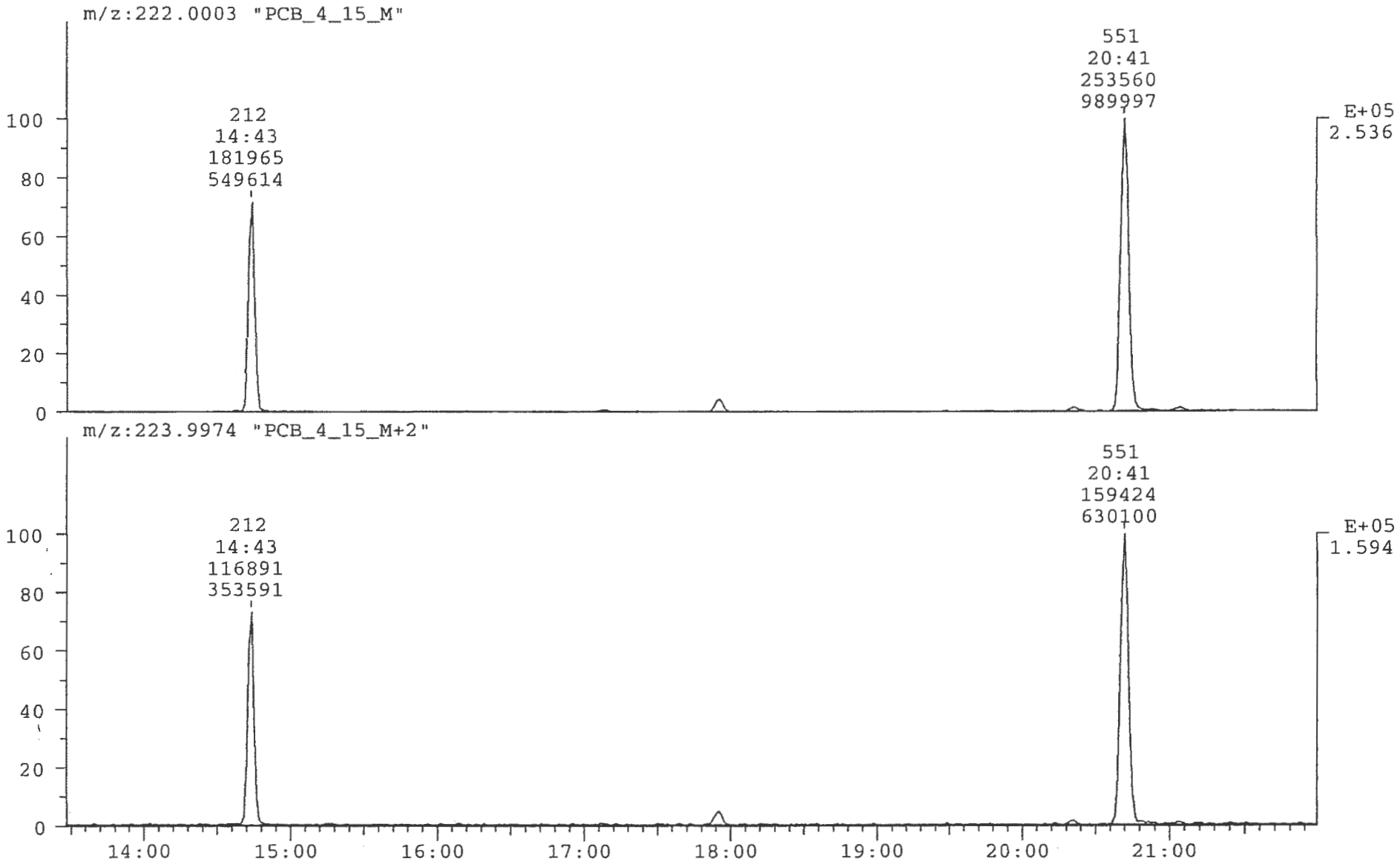
CHRO: a07030753 08-Mar-07 Elapse: 17:43.3 382
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



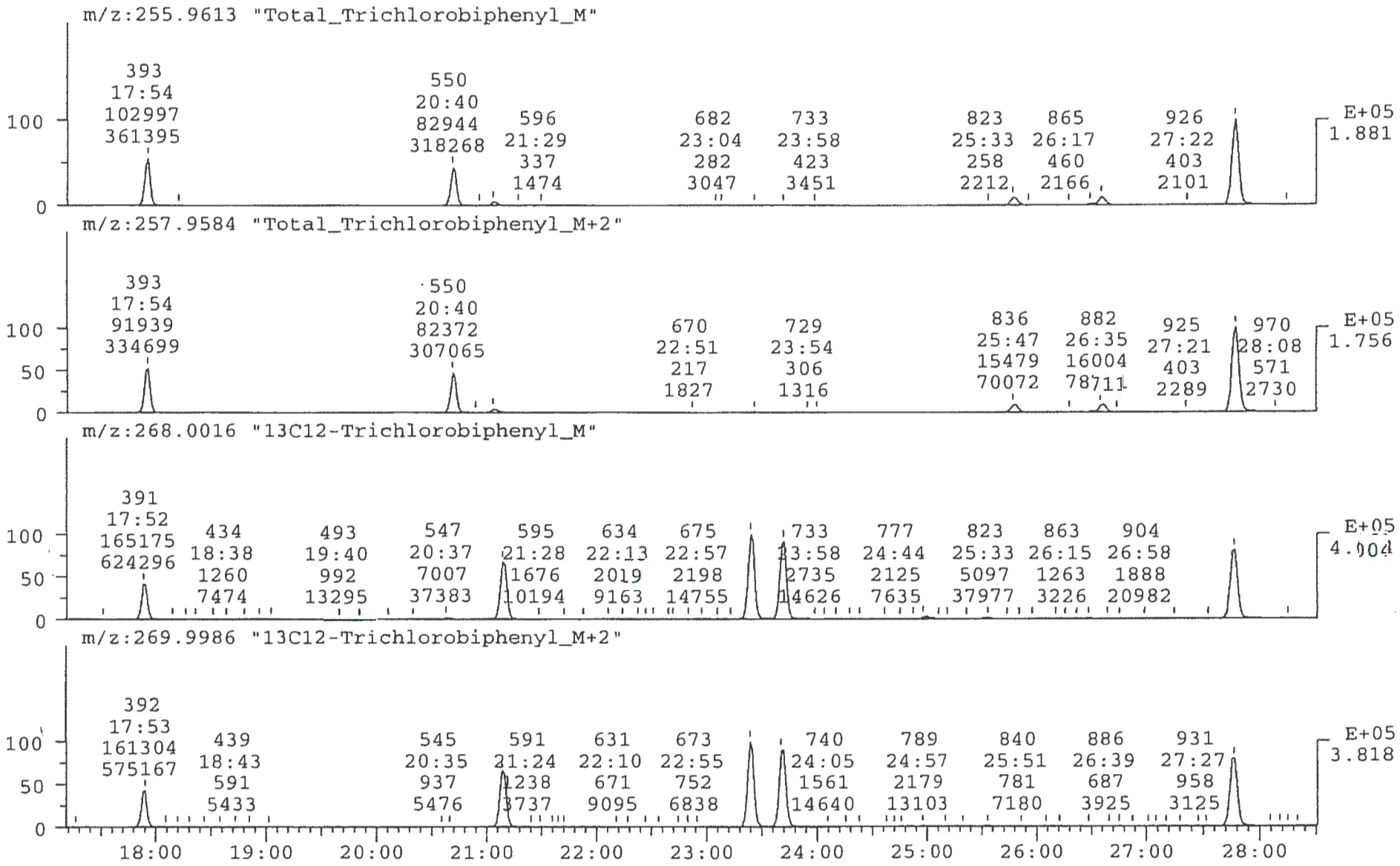
```
CHRO:  a07030753                                08-Mar-07   Elapse:  17:43.3      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



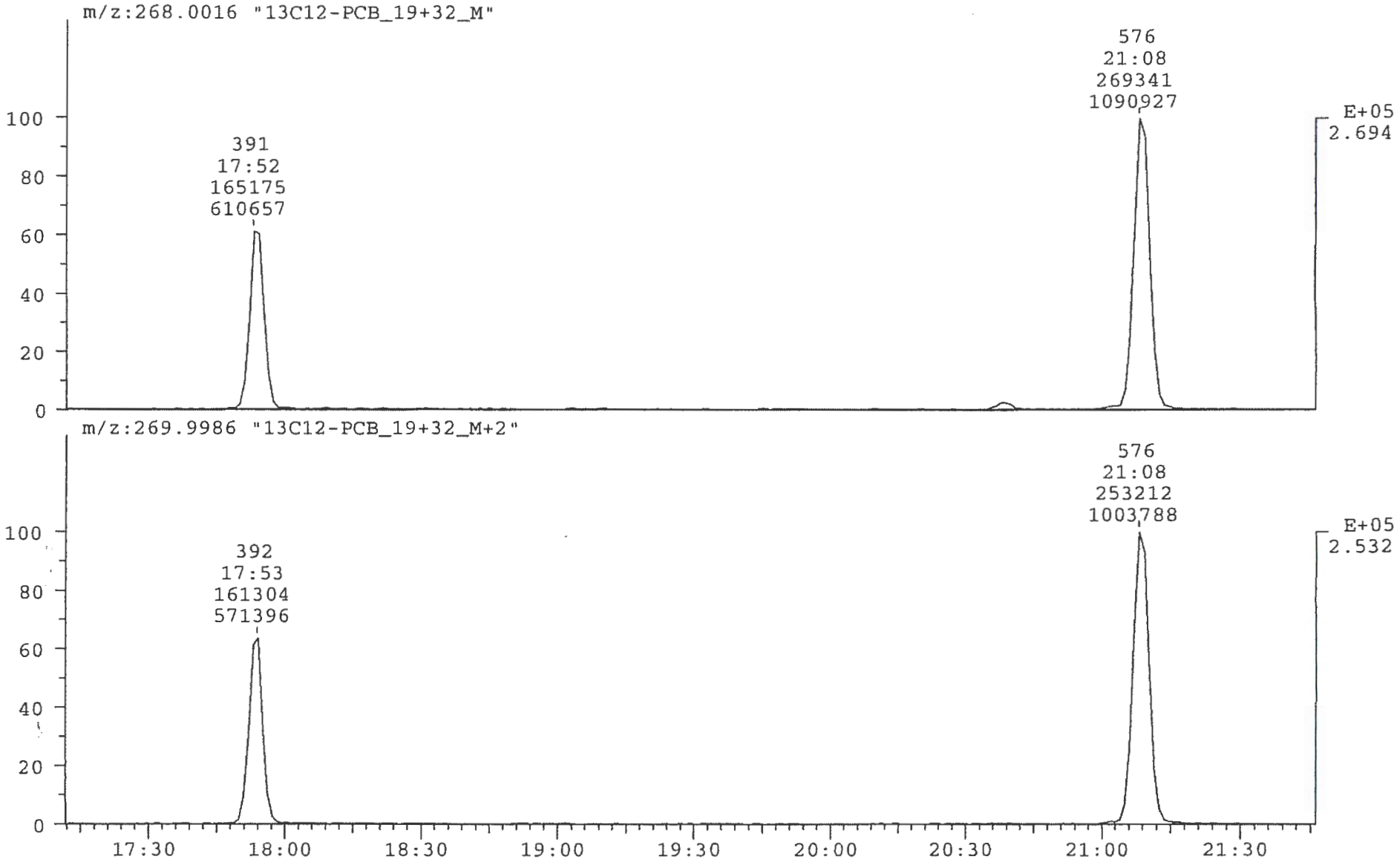
```
CHRO:  a07030753                                08-Mar-07   Elapse:  17:43.3      382
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   140 > 624             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030753                                08-Mar-07   Elapse:  22:52.9      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC      Vial   7
Peak:  100.00  ppm      Label wndw:   351 > 991             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

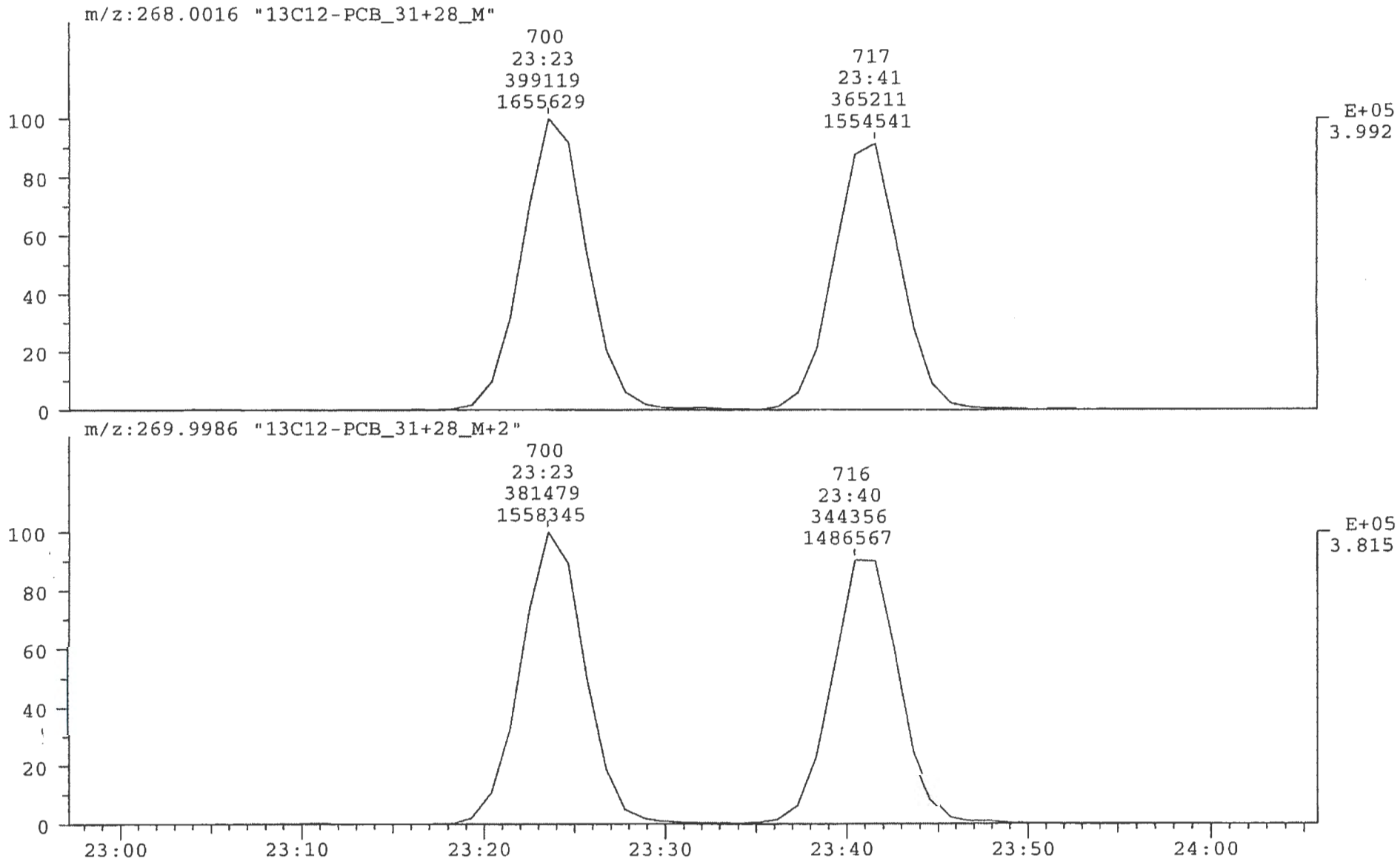


```
CHRO:  a07030753                                08-Mar-07   Elapse:  19:18.3      472
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   352 > 612             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```

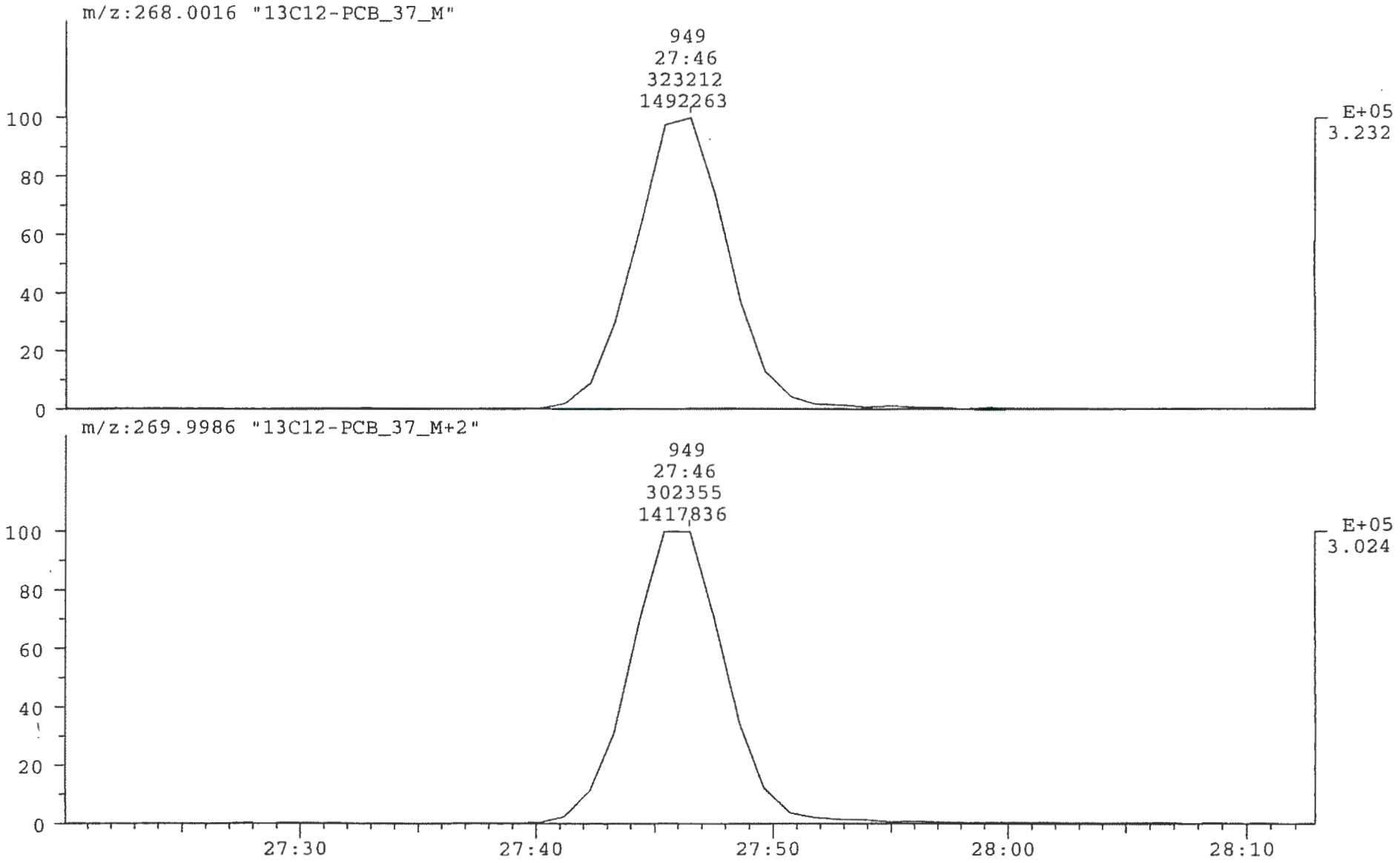


2586

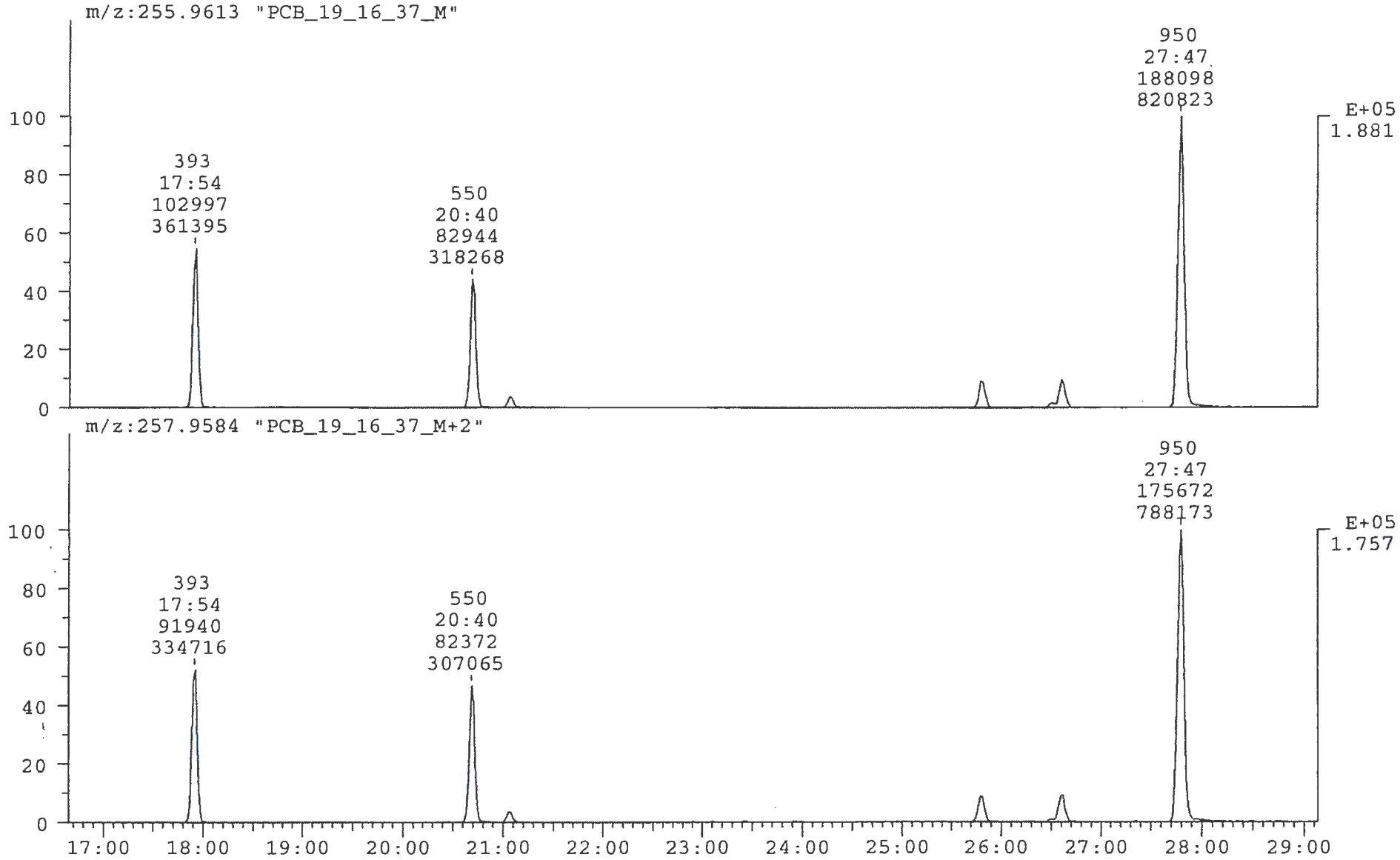
CHRO: a07030753 08-Mar-07 Elapse: 23:23.5 700
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 675 > 740 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



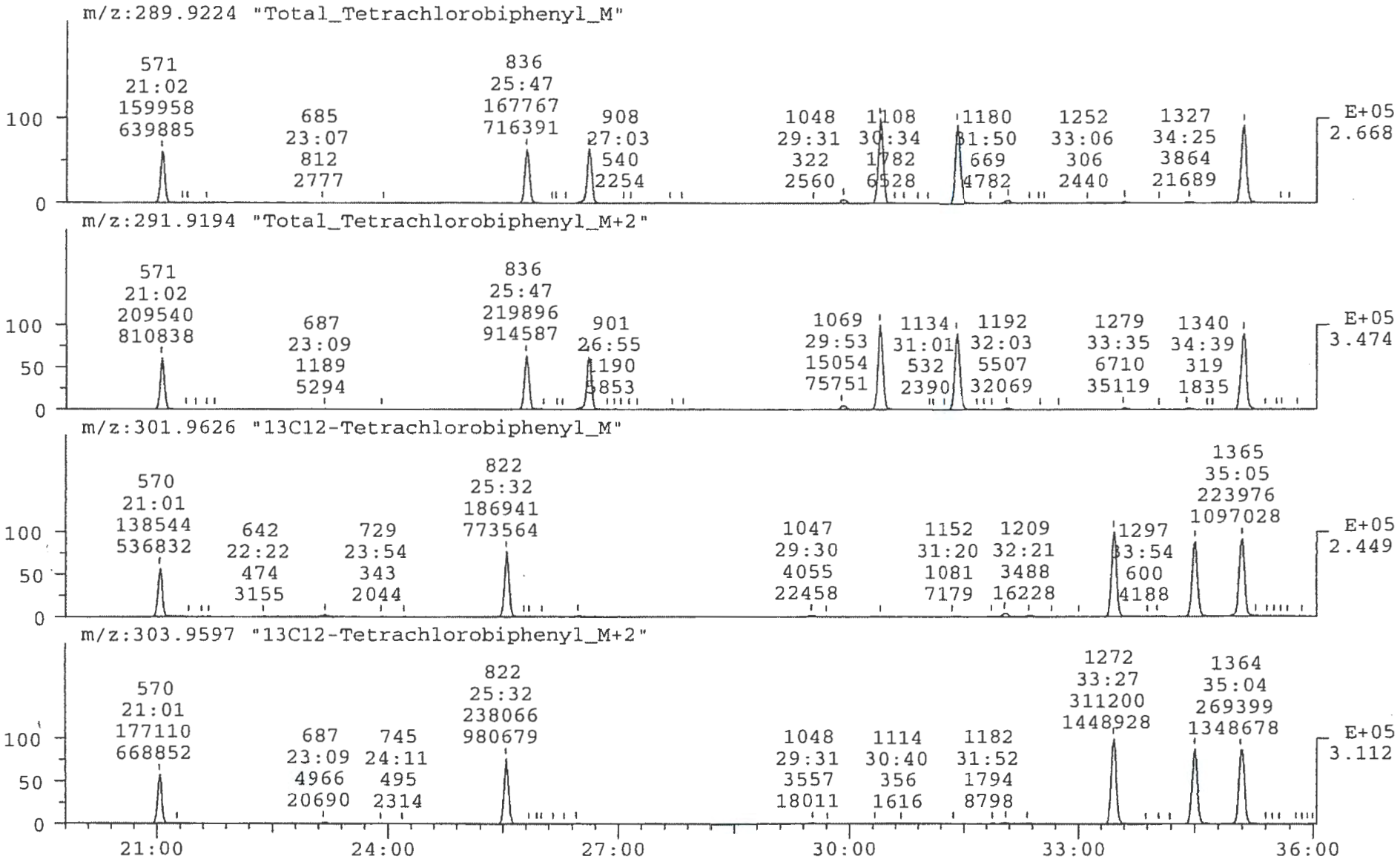
```
CHRO:  a07030753                                08-Mar-07   Elapse:  27:46.4      949
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   924 > 974             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



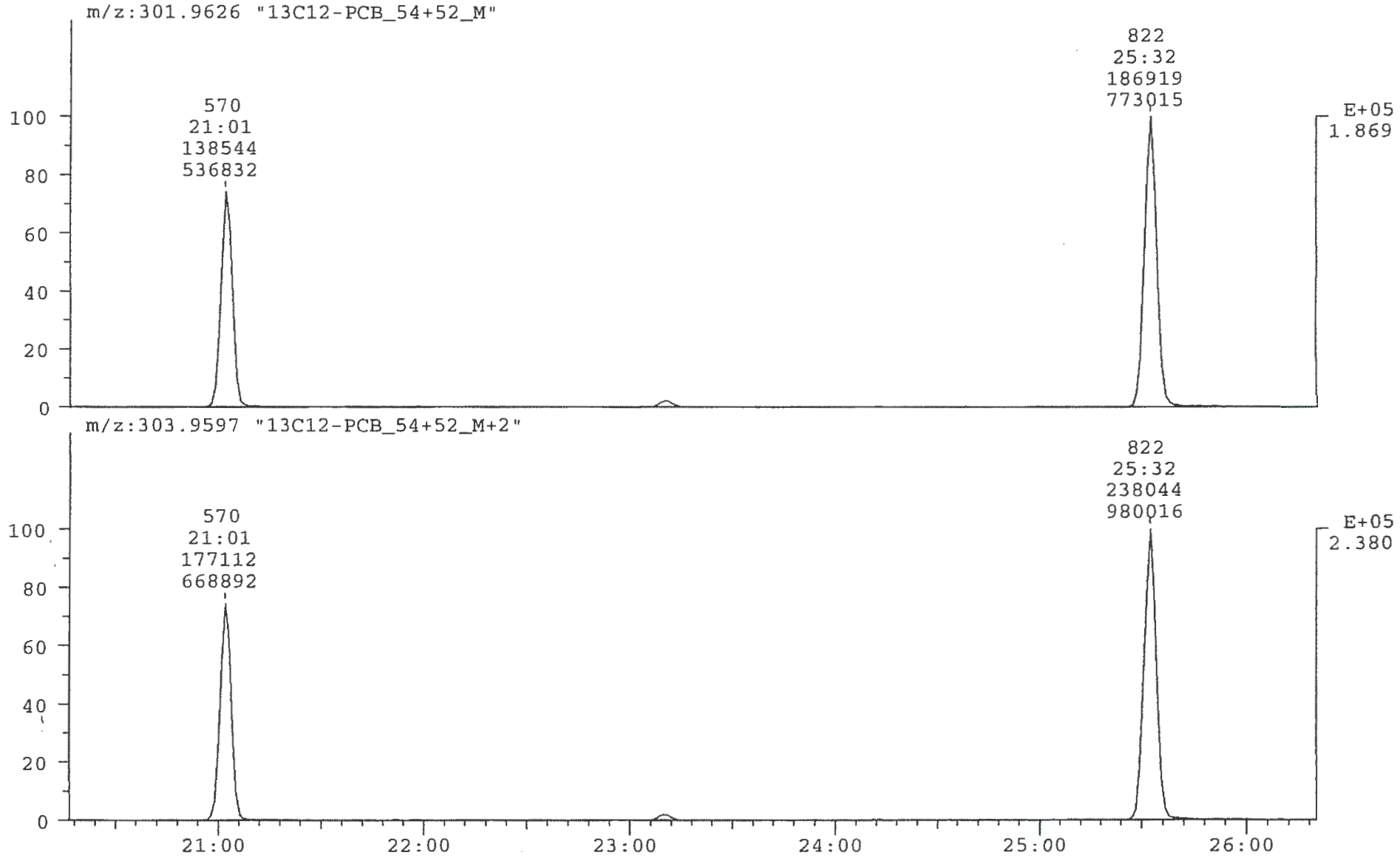
```
CHRO:  a07030753                                08-Mar-07   Elapse:  22:52.9      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   321 > 1026            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



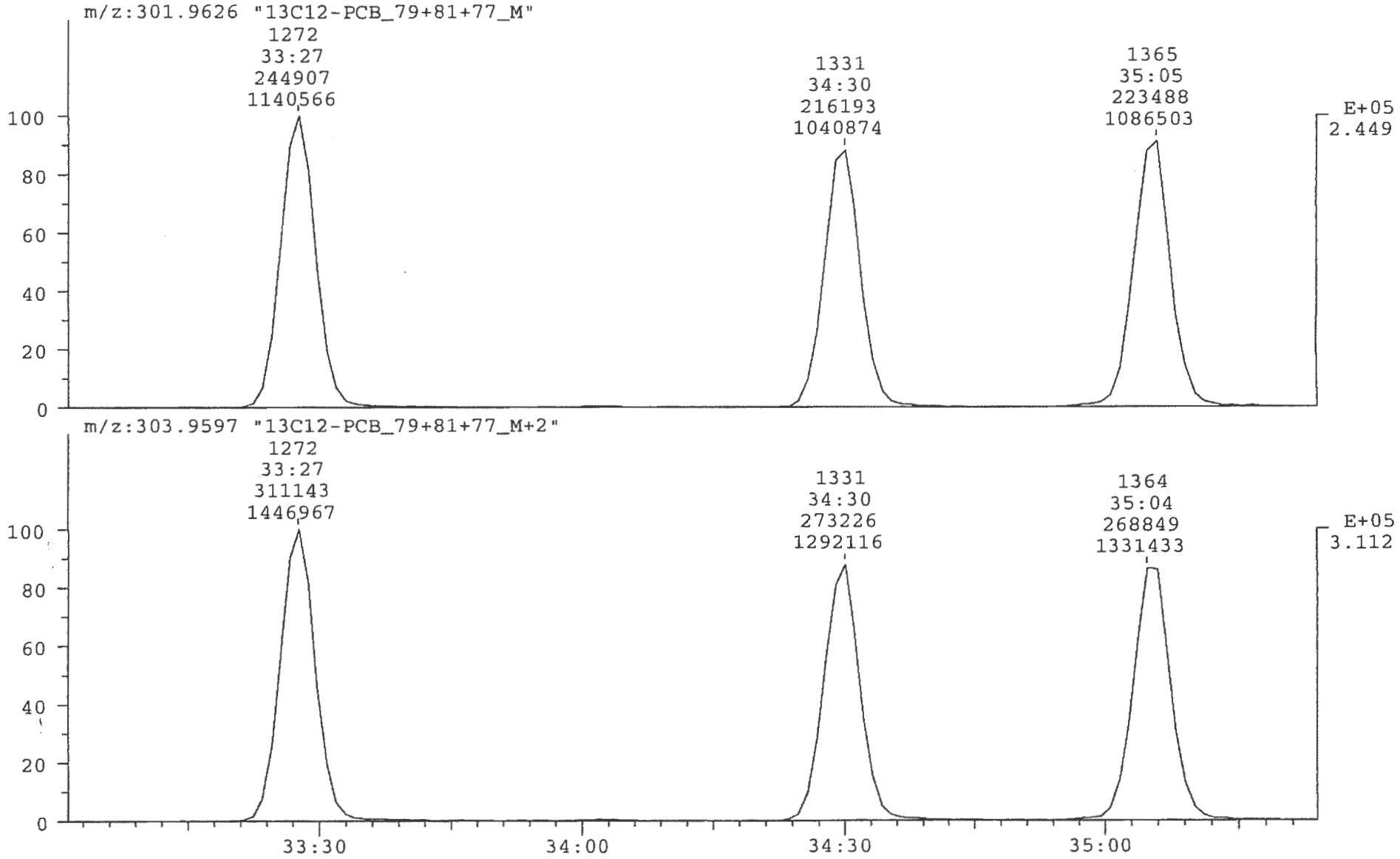
CHRO: a07030753 08-Mar-07 Elapse: 27:54.9 957
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030753                                08-Mar-07   Elapse:  23:20.4      697
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

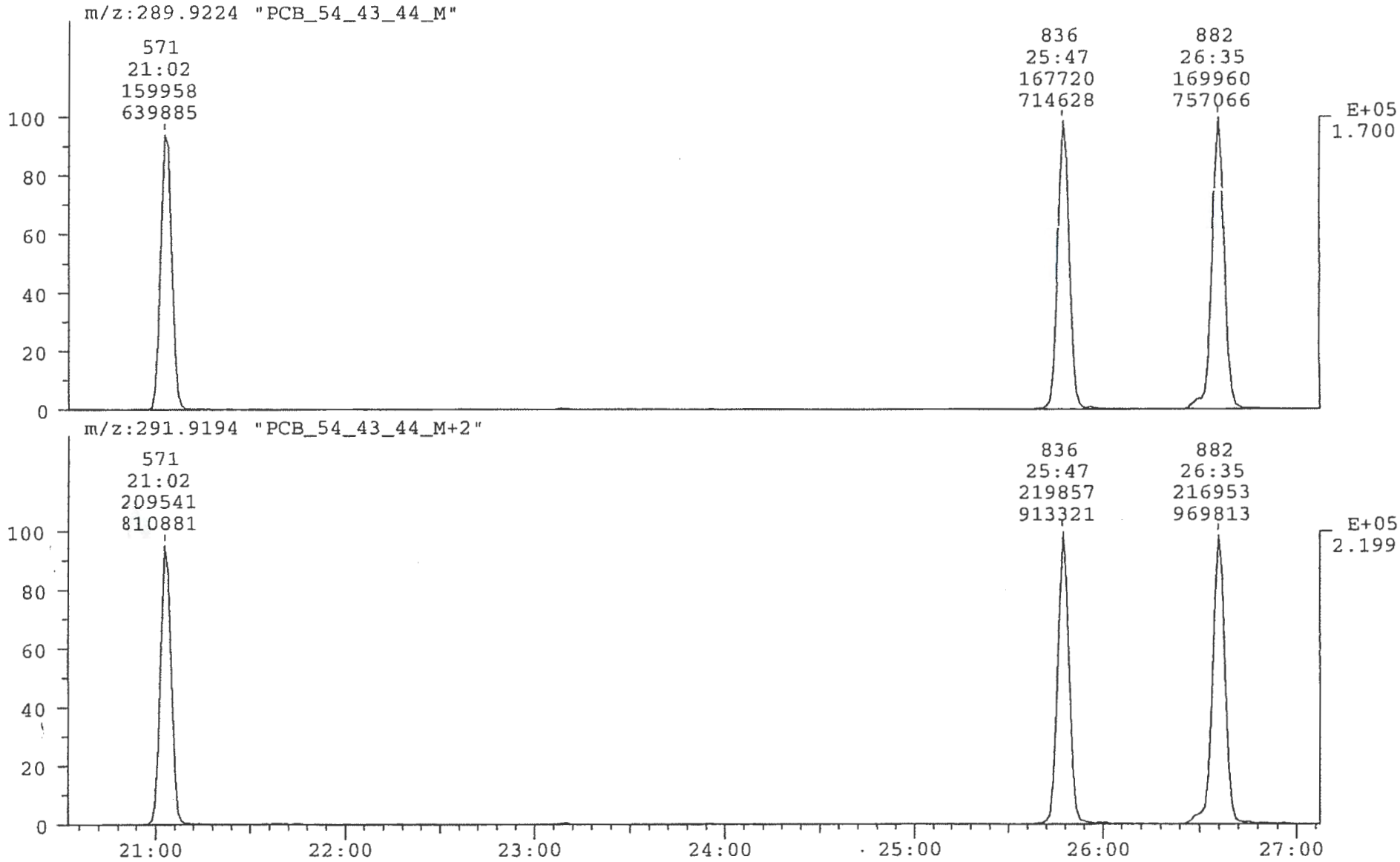


CHRO: a07030753 08-Mar-07 Elapse: 34:15 1317
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1247 > 1382 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

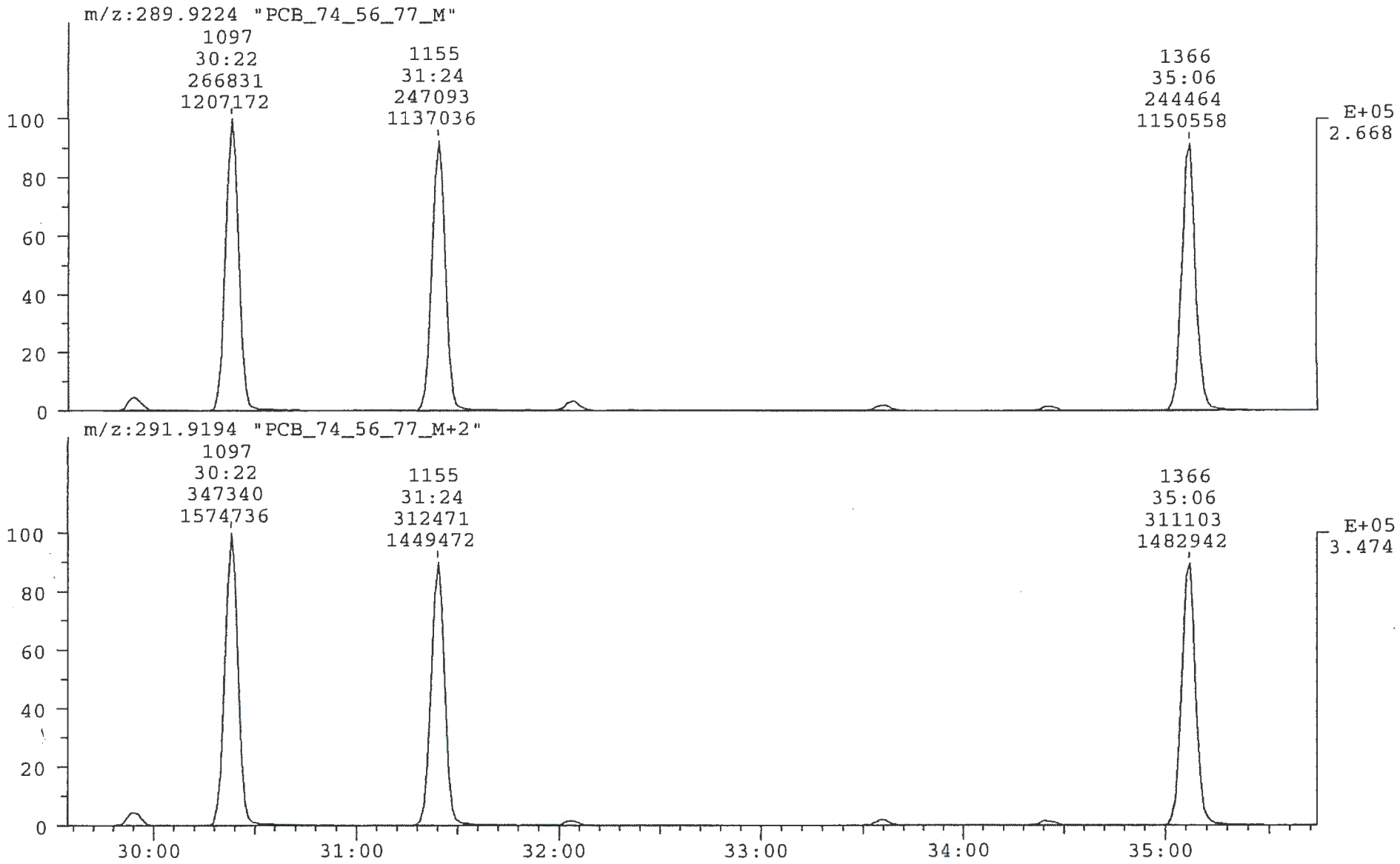


2592

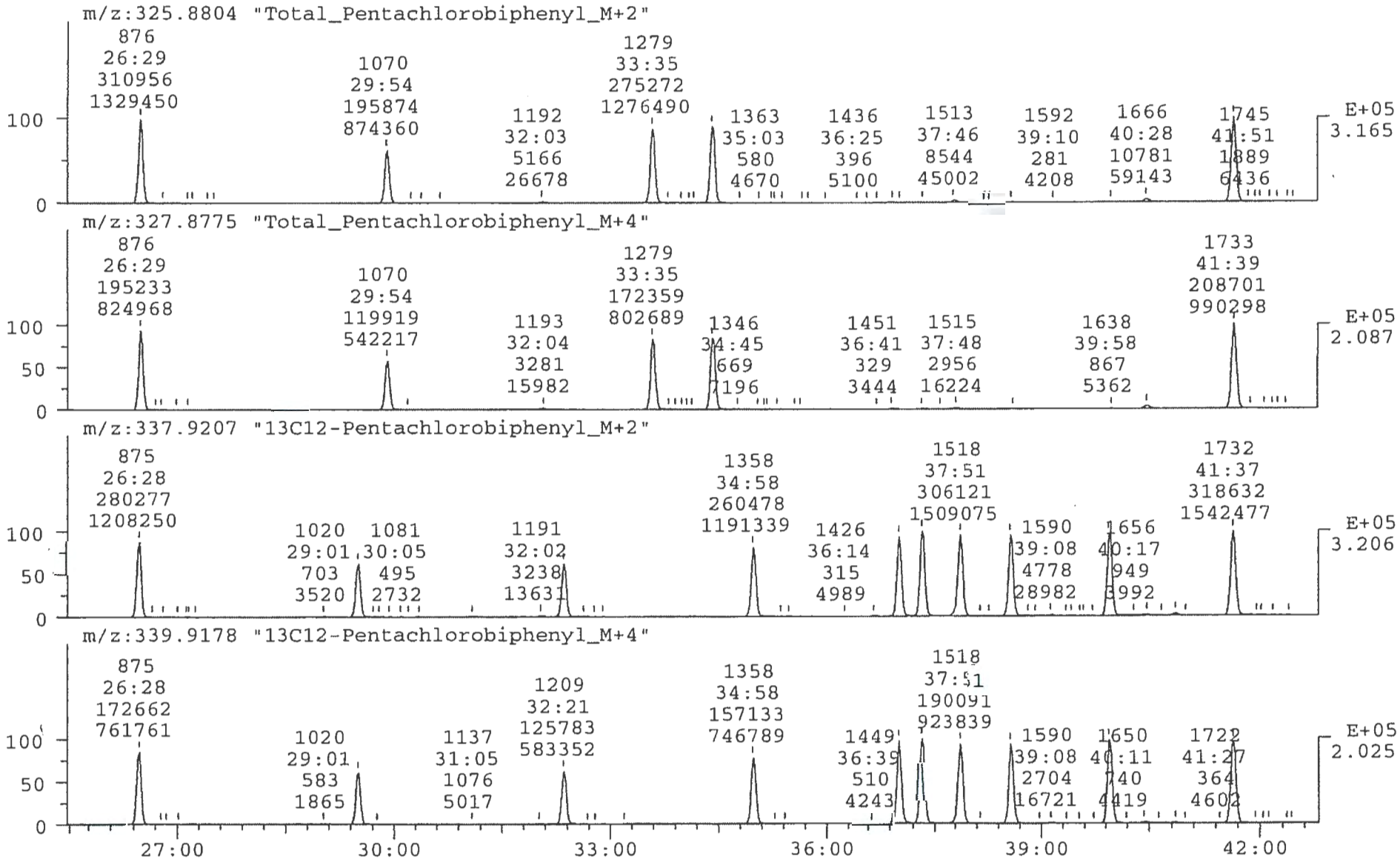
```
CHRO:  a07030753                                08-Mar-07   Elapse:  23:52.1      727
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16    2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   542 > 912             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030753                                08-Mar-07  Elapse:  32:38      1226
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1051 > 1401          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

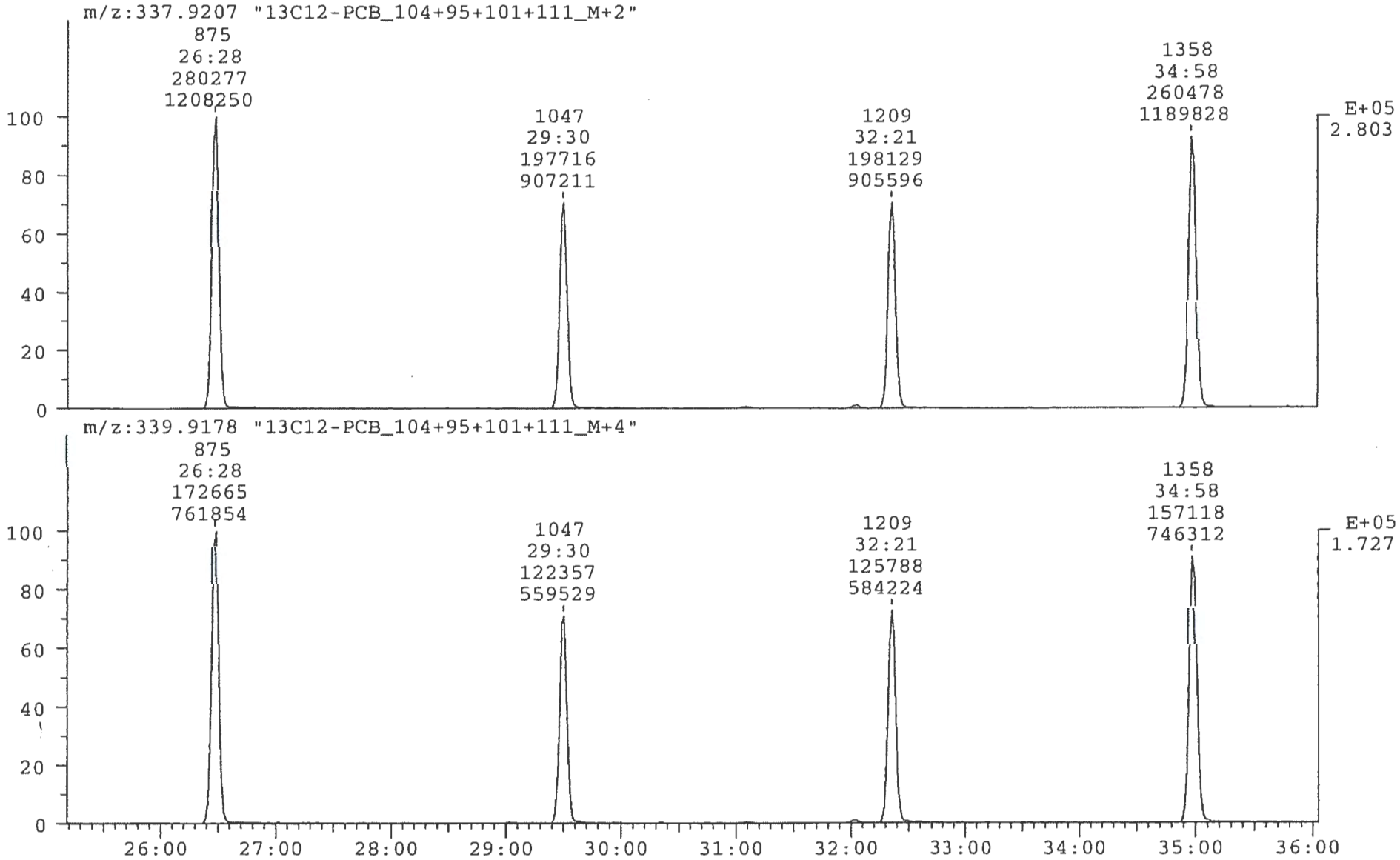


CHRO: a07030753 08-Mar-07 Elapse: 34:07 1310
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 818 > 1798 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

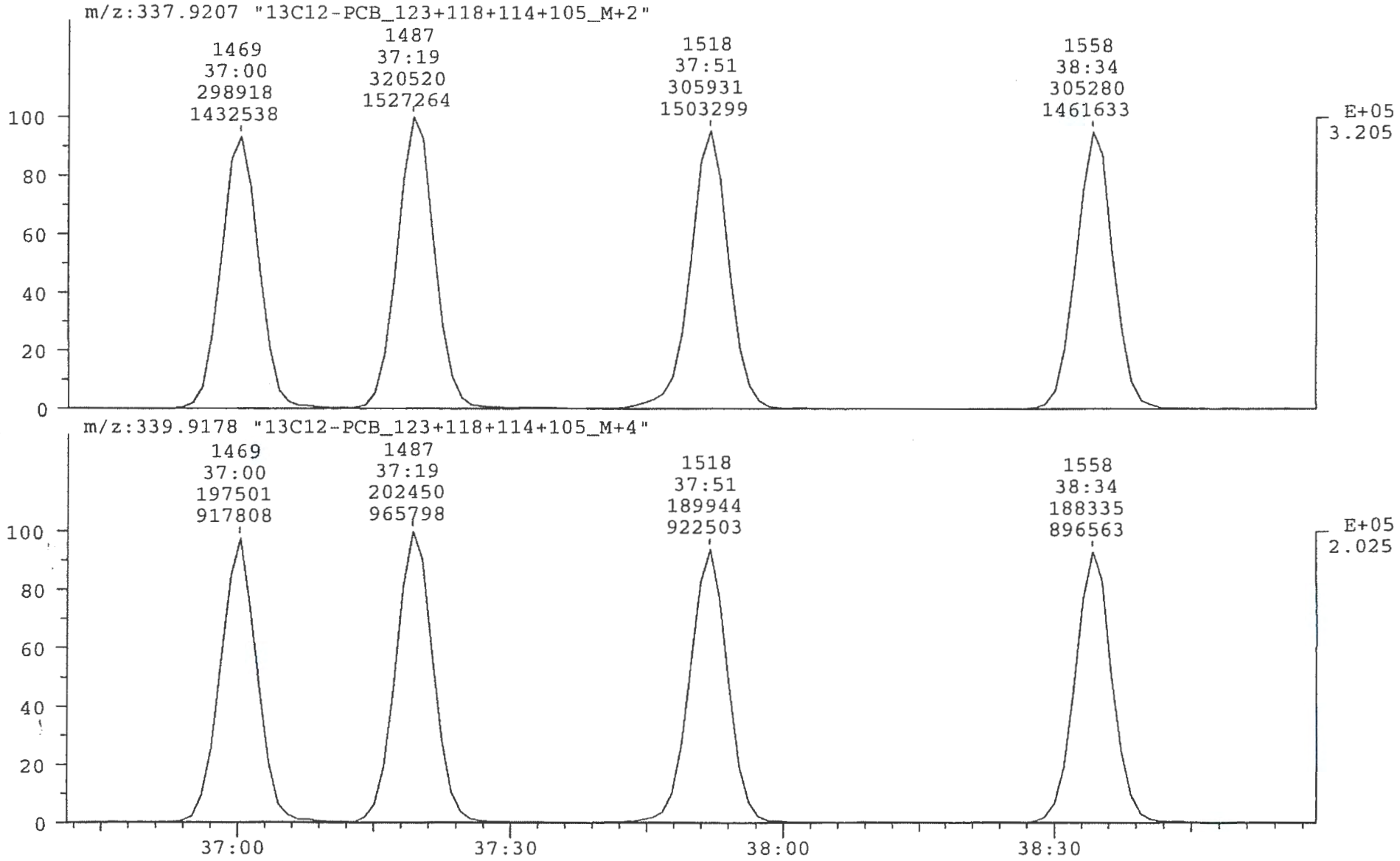


2595

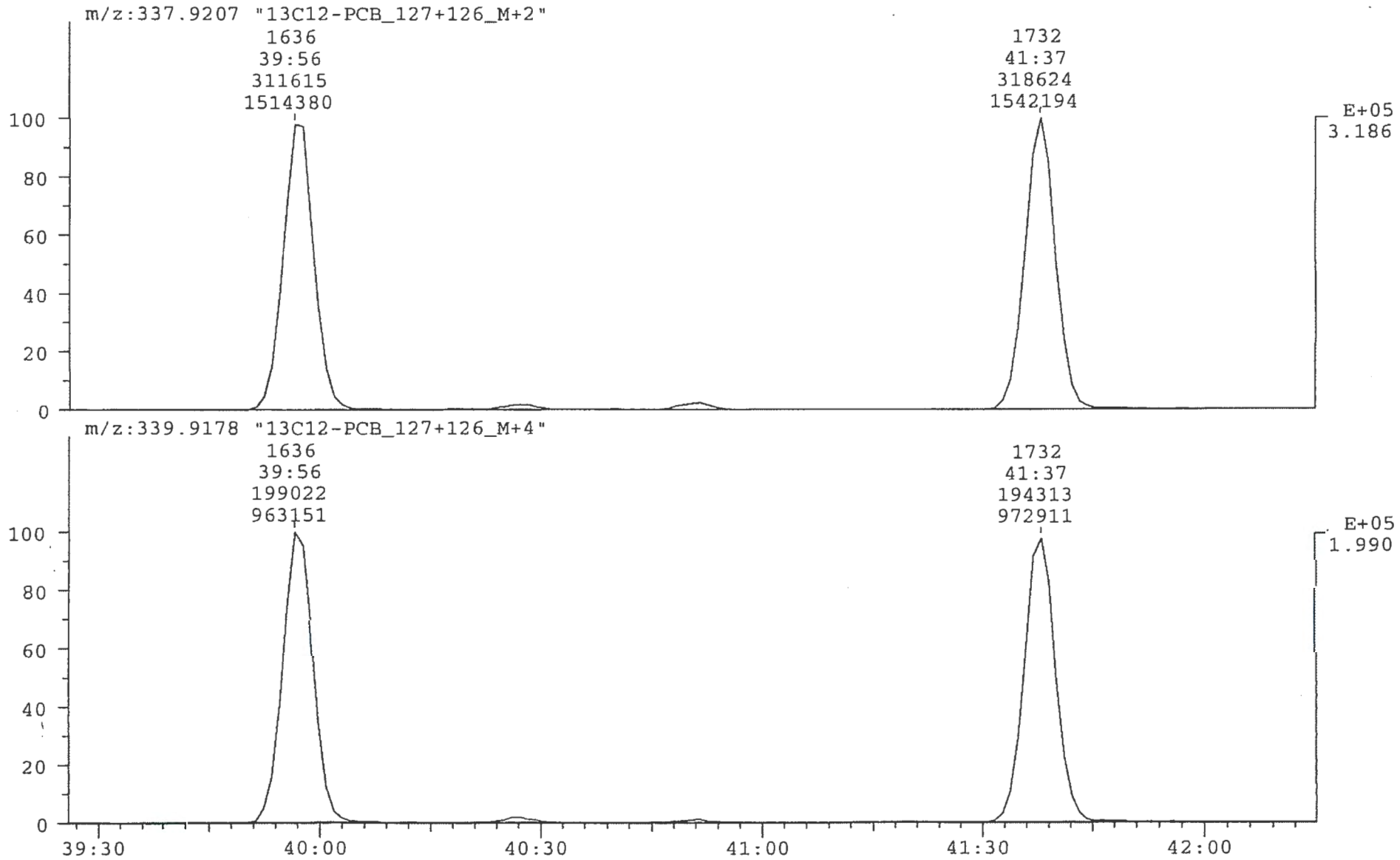
```
CHRO:  a07030753                                08-Mar-07   Elapse:  30:37      1111
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   802 > 1419            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



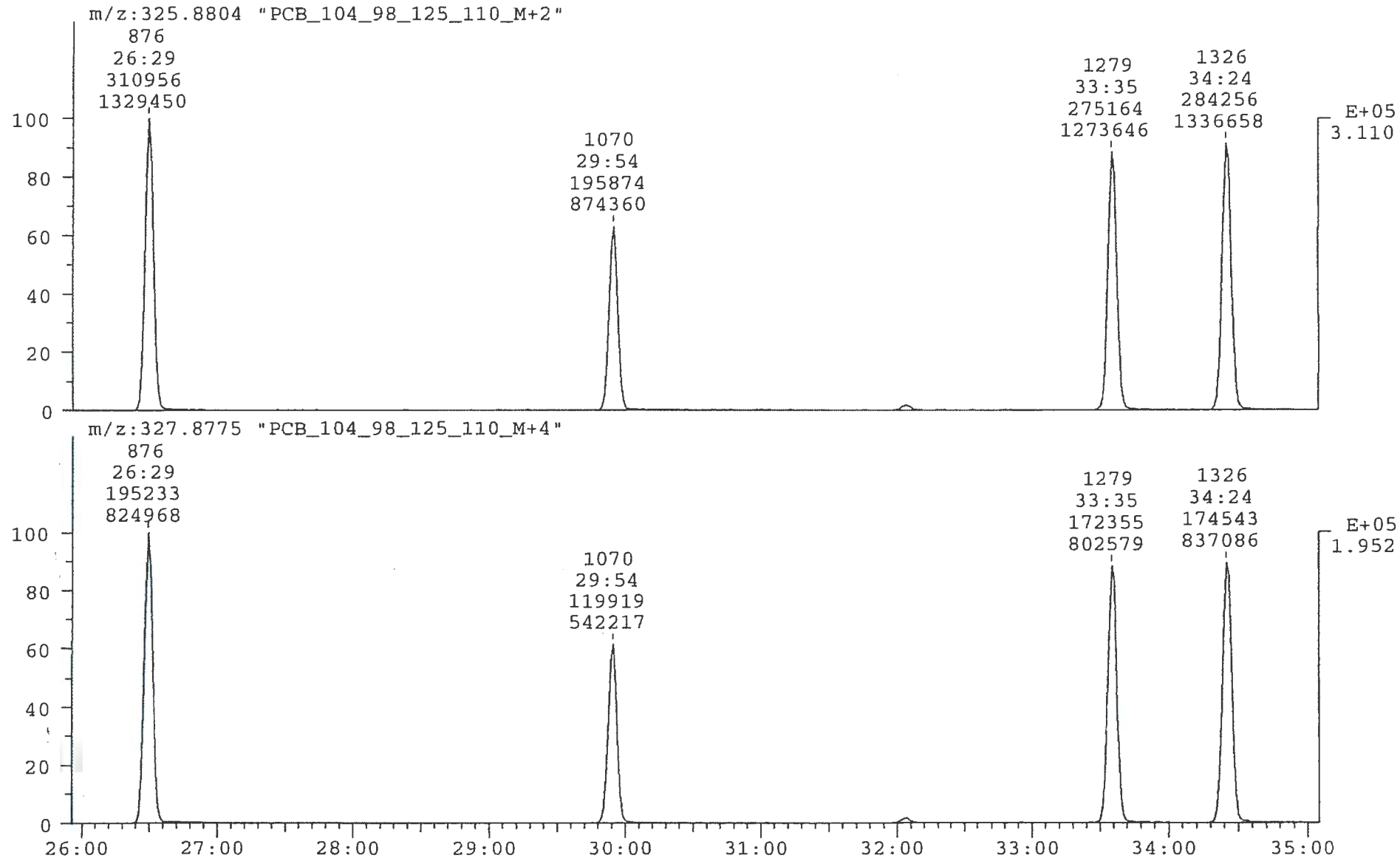
```
CHRO:  a07030753                                08-Mar-07   Elapse:  37:49      1516
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1451 > 1581            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



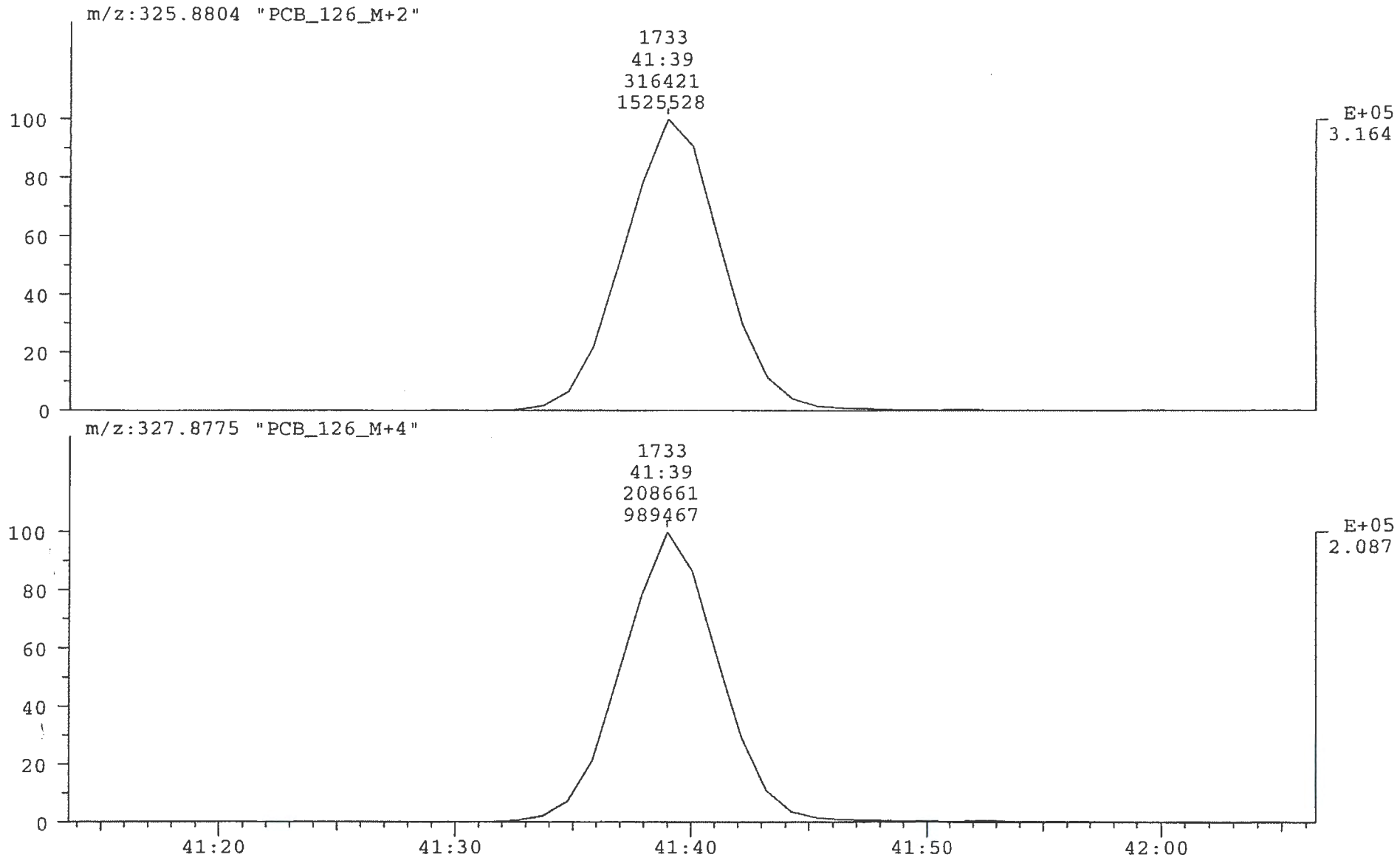
```
CHRO:  a07030753                                08-Mar-07   Elapse:  40:50      1687
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   1607 > 1767            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030753                                08-Mar-07   Elapse:  30:30      1104
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   844 > 1364            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

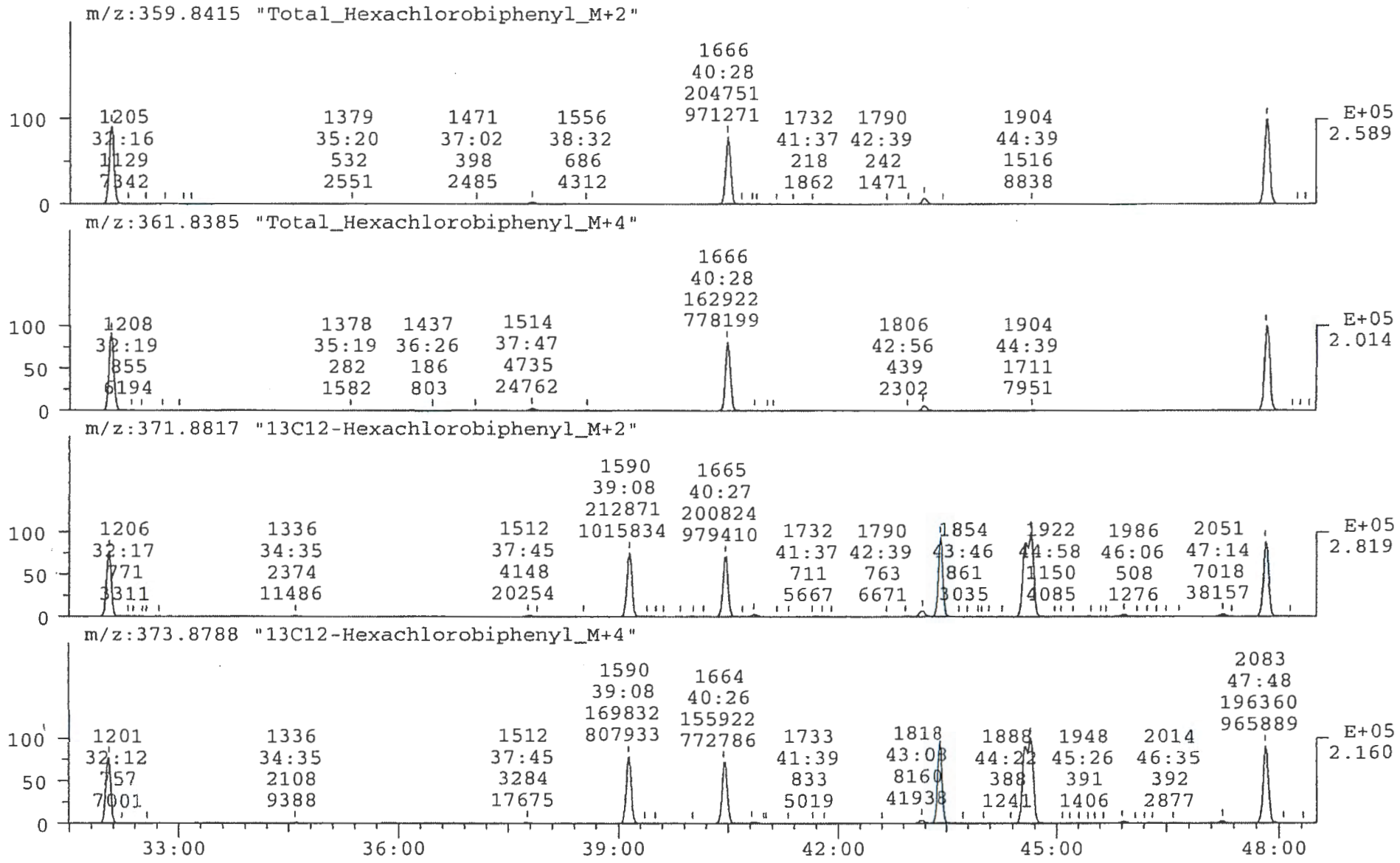


```
CHRO:  a07030753                              08-Mar-07   Elapse:  41:40      1734
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1709 > 1759         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



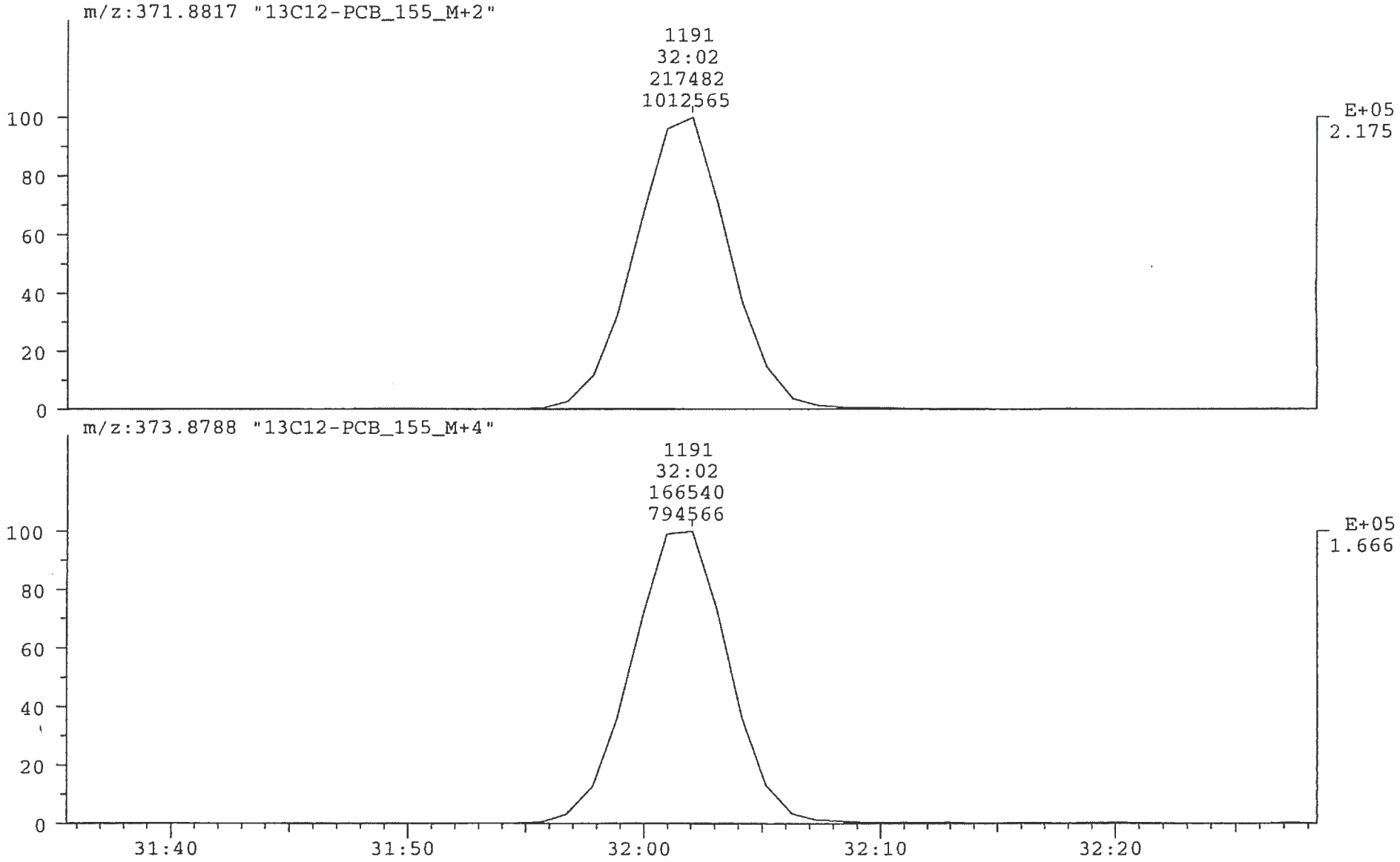
2600

CHRO: a07030753 08-Mar-07 Elapse: 39:58 1638
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1160 > 2122 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



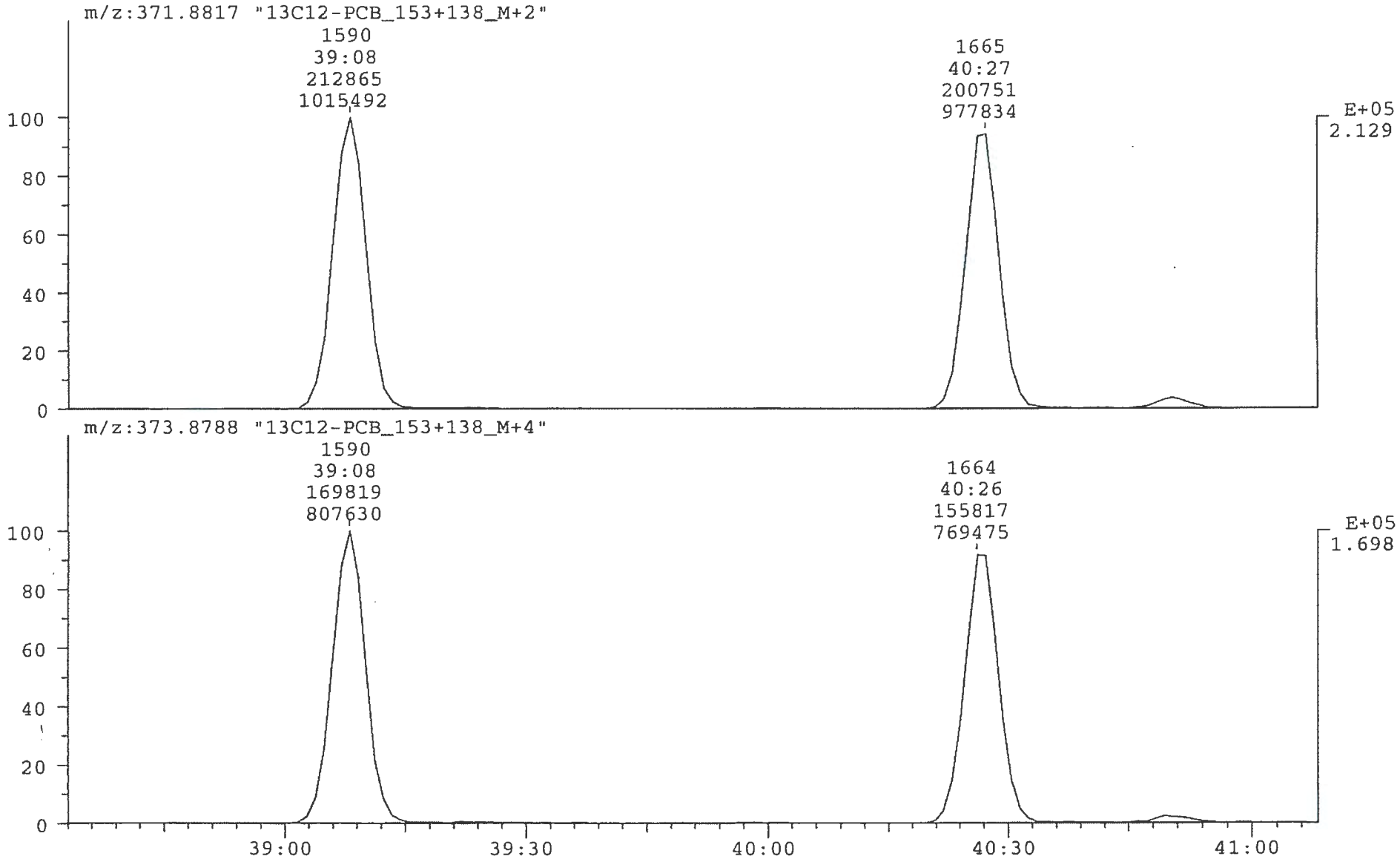
2601

```
CHRO:  a07030753                                08-Mar-07   Elapse:  32:02      1191
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1166 > 1216            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



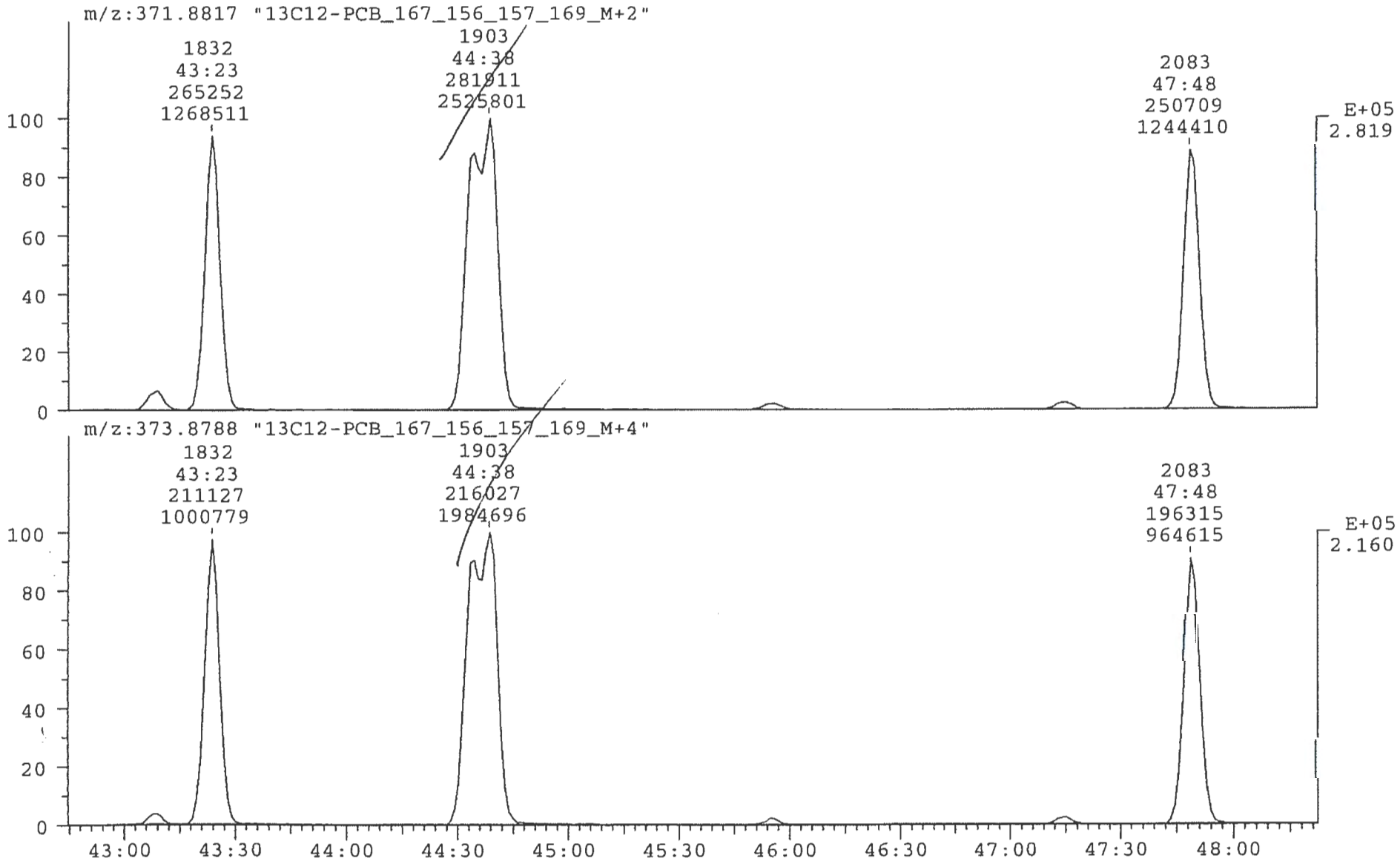
2602

```
CHRO:  a07030753                                08-Mar-07  Elapse:  39:50      1630
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm     Label wndw:   1557 > 1704          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

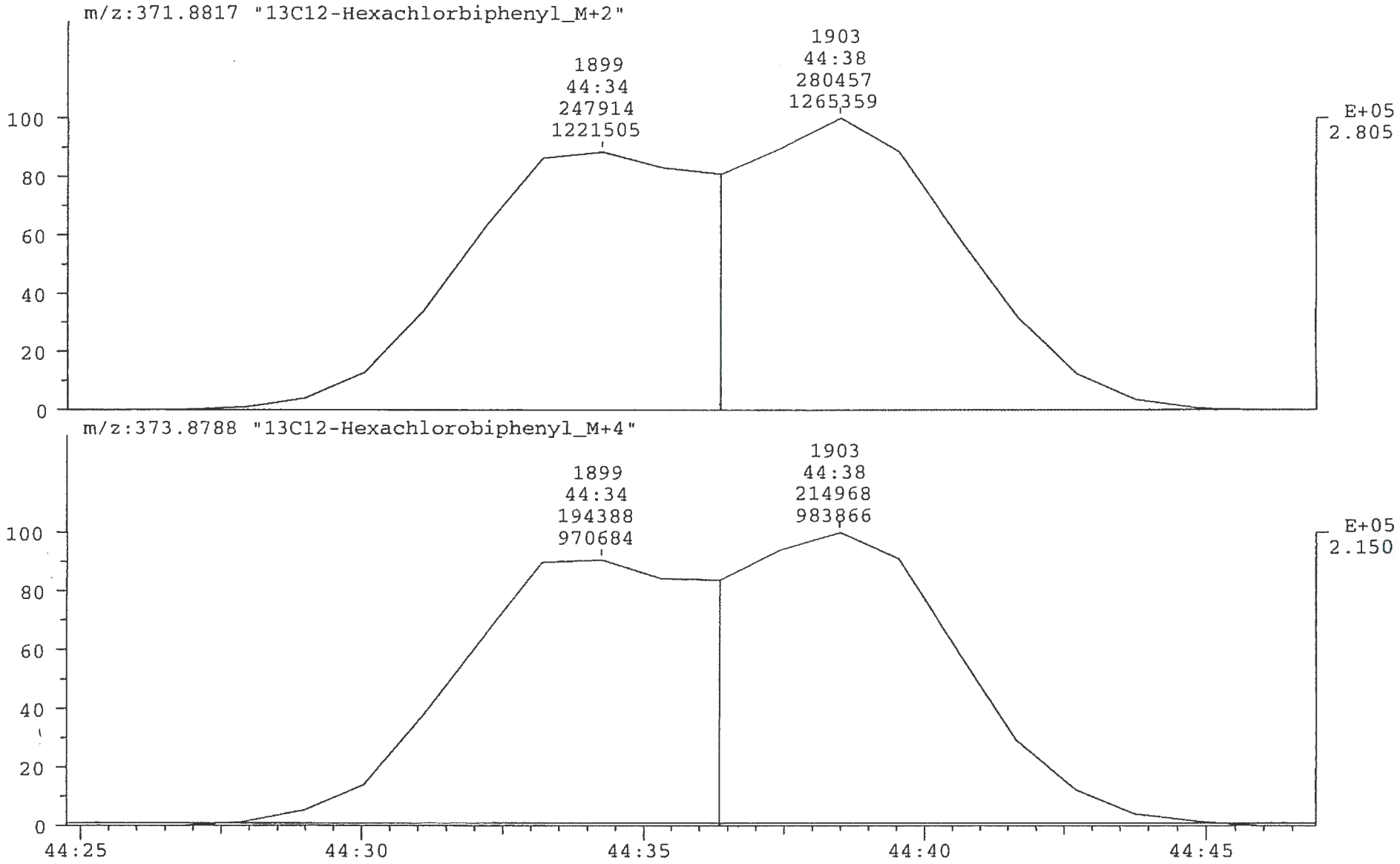


2603

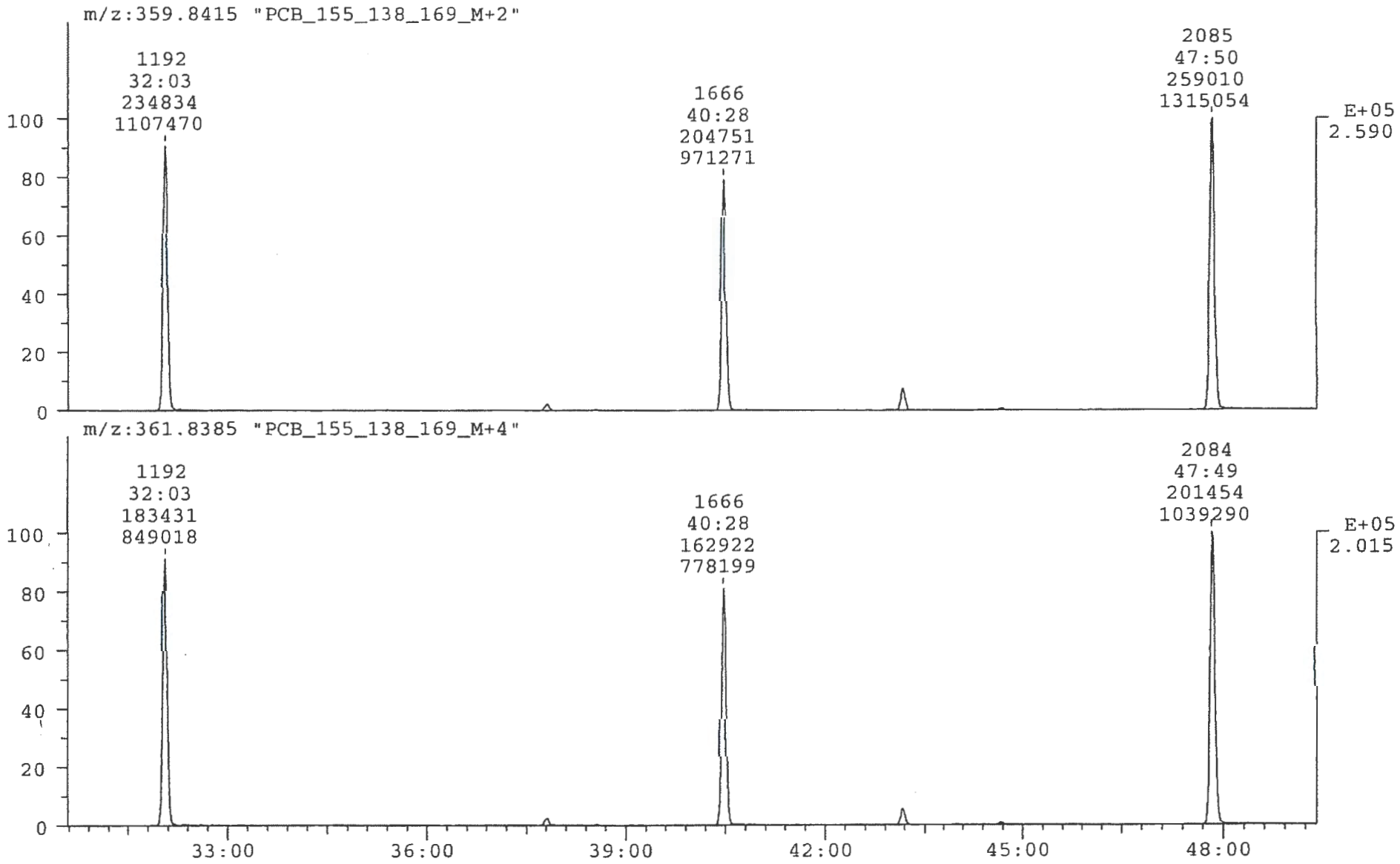
CHRO: a07030753 08-Mar-07 Elapse: 45:38 1960
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1795 > 2115 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030753                                08-Mar-07  Elapse:  56:12      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1890 > 1911         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2              Label :  -3, 3.0
Disp:  Height  Area
```

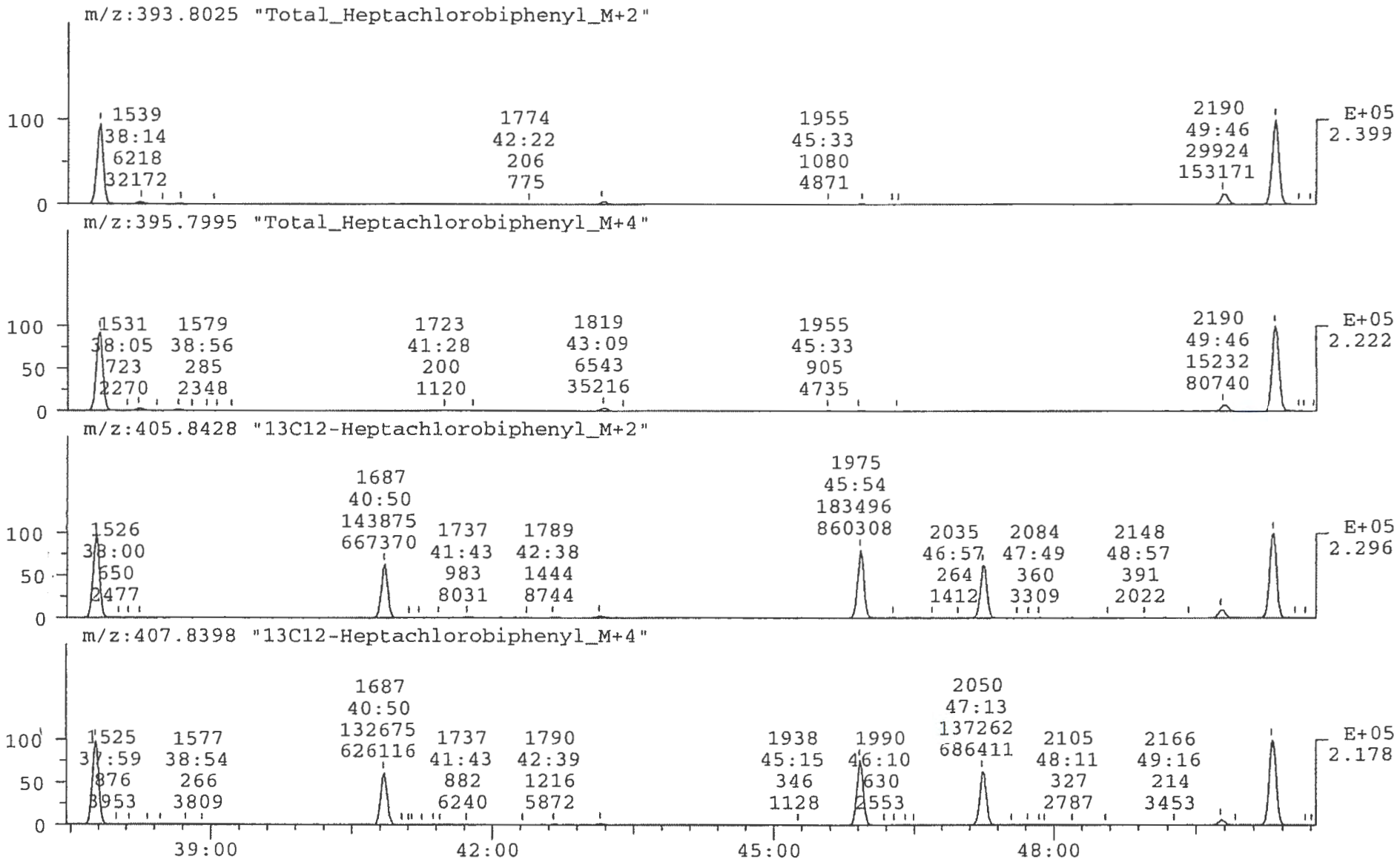


CHRO: a07030753 08-Mar-07 Elapse: 39:58 1638
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1108 > 2168 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



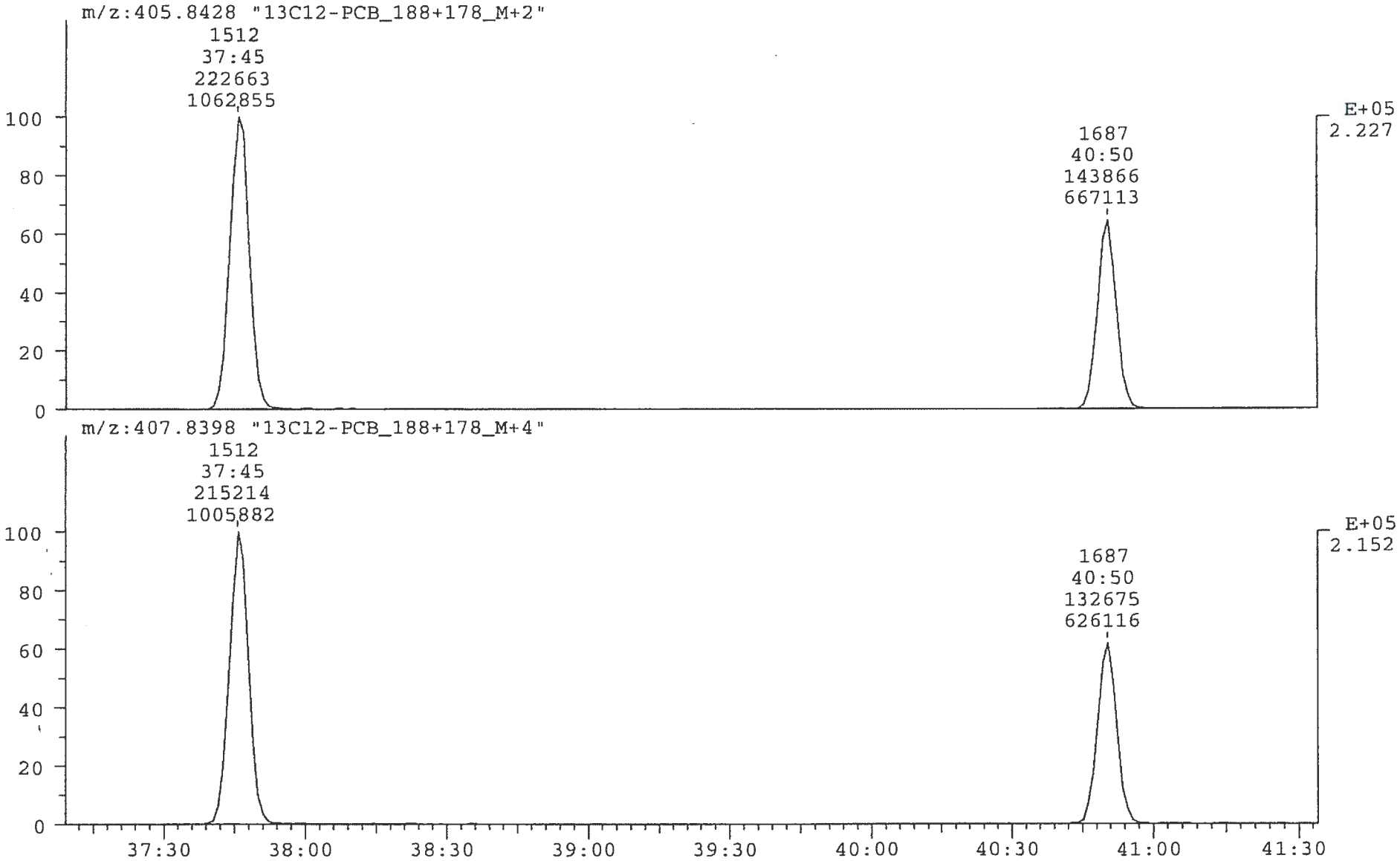
2606

CHRO: a07030753 08-Mar-07 Elapse: 44:05 1872
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1494 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

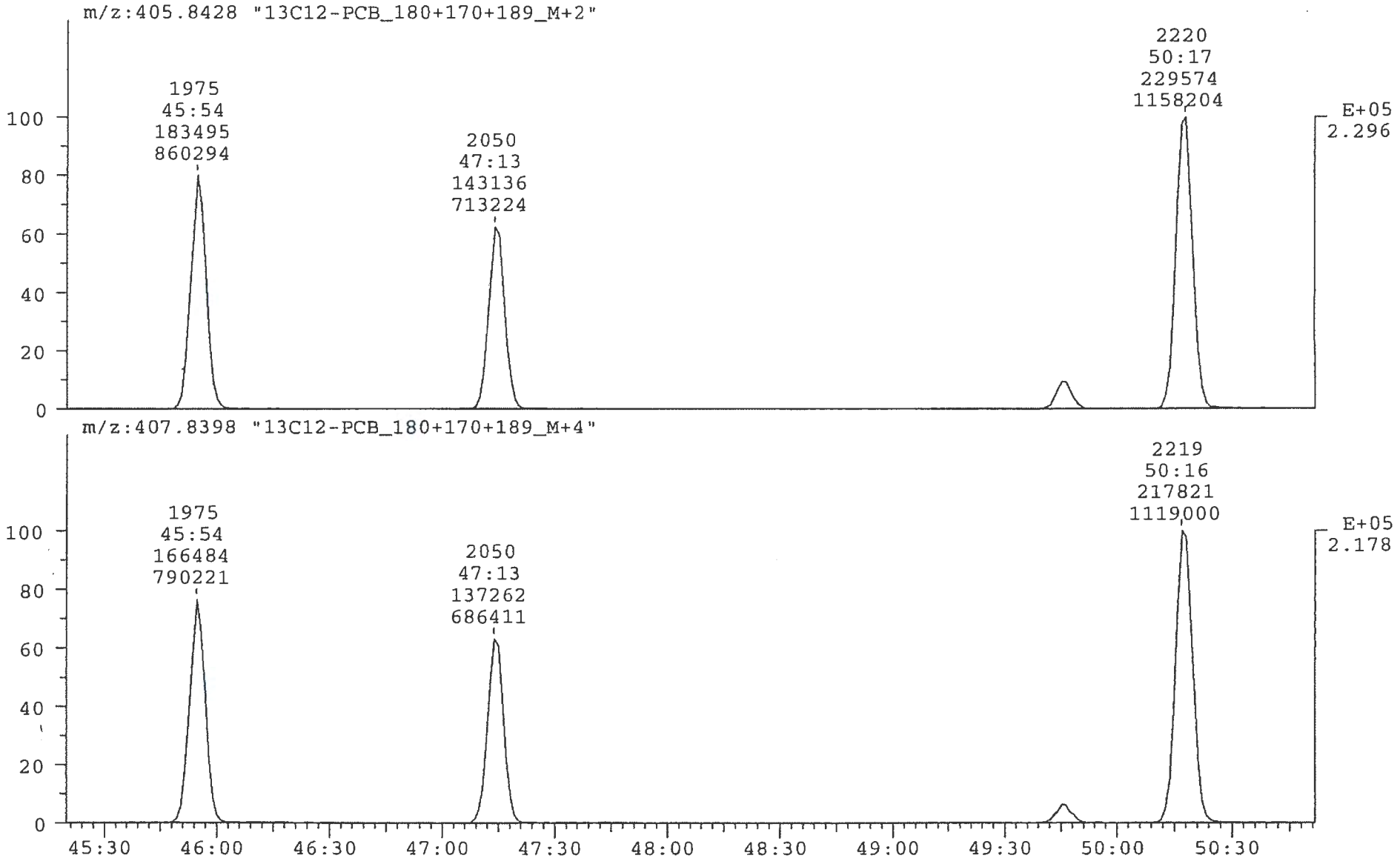


2607

```
CHRO:  a07030753                                08-Mar-07   Elapse:  39:20      1602
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1477 > 1728           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

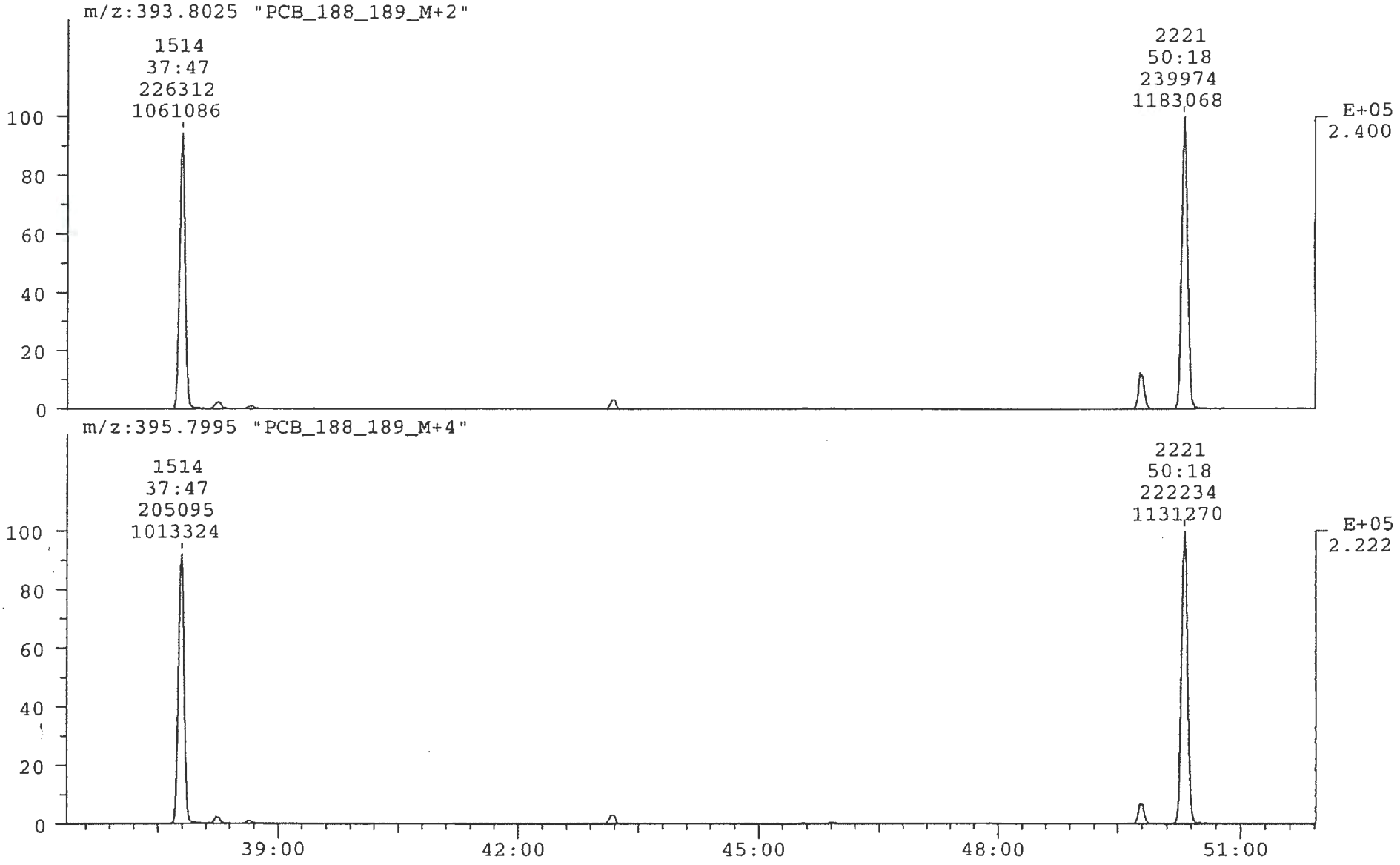


CHRO: a07030753 08-Mar-07 Elapse: 48:08 2102
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1942 > 2252 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

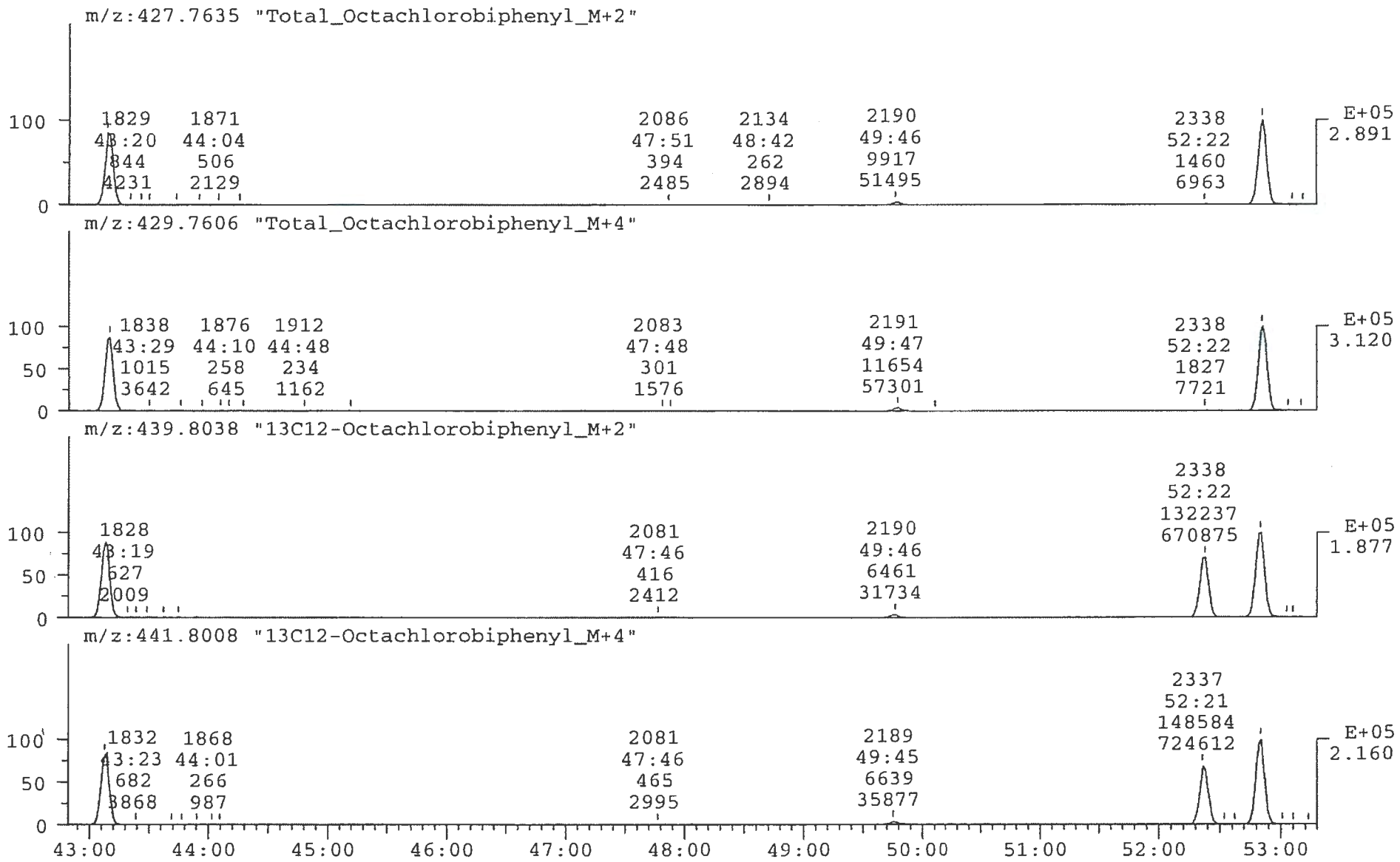


2609

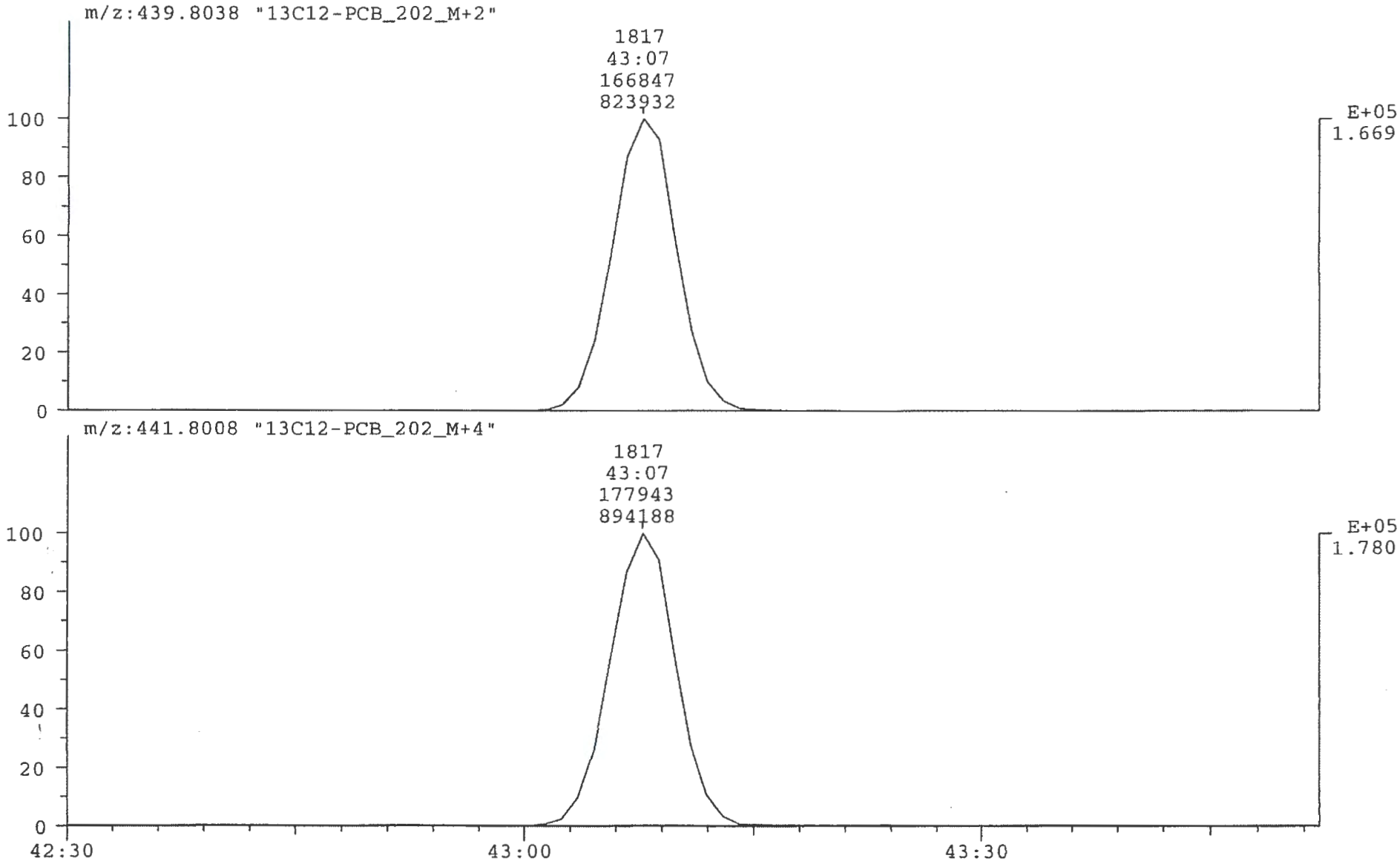
```
CHRO:  a07030753                                08-Mar-07   Elapse:  44:05      1872
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   1432 > 2312           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030753                                08-Mar-07   Elapse:  48:03      2097
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1799 > 2390           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

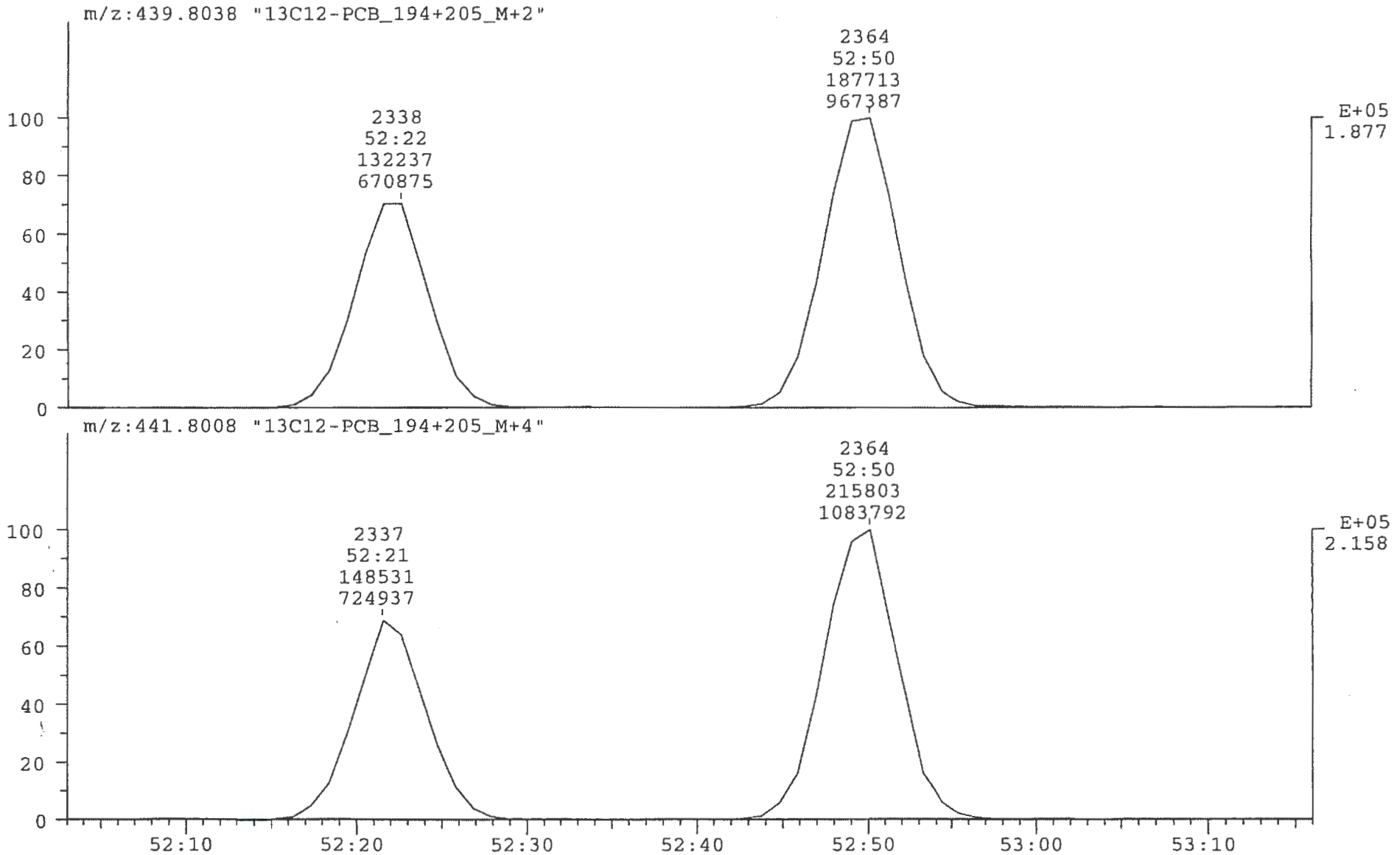


```
CHRO:  a07030753                                08-Mar-07   Elapse:  43:07      1817
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1781 > 1859           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

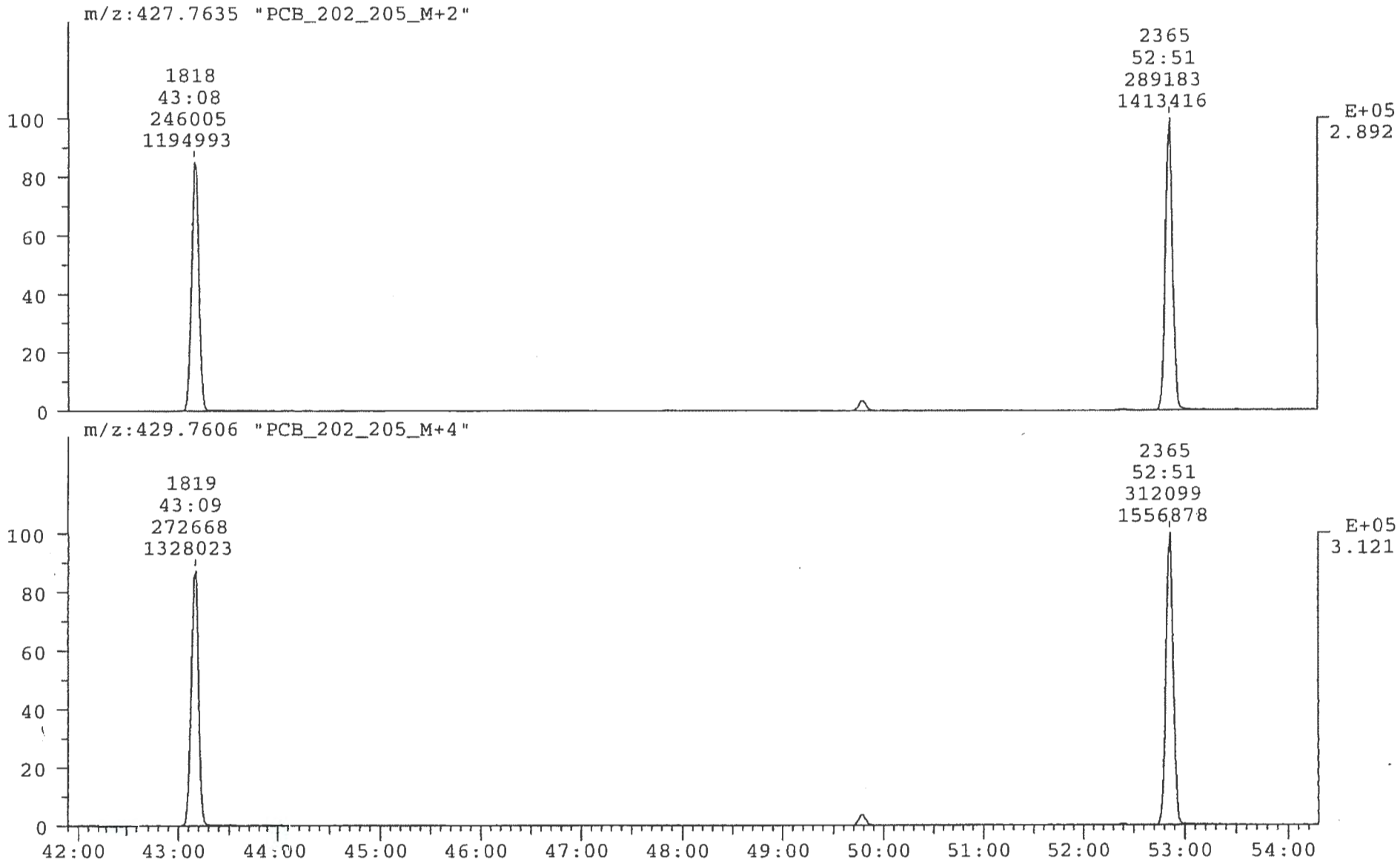


2612

```
CHRO:  a07030753                                08-Mar-07   Elapse:  52:39      2354
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2319 > 2389           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

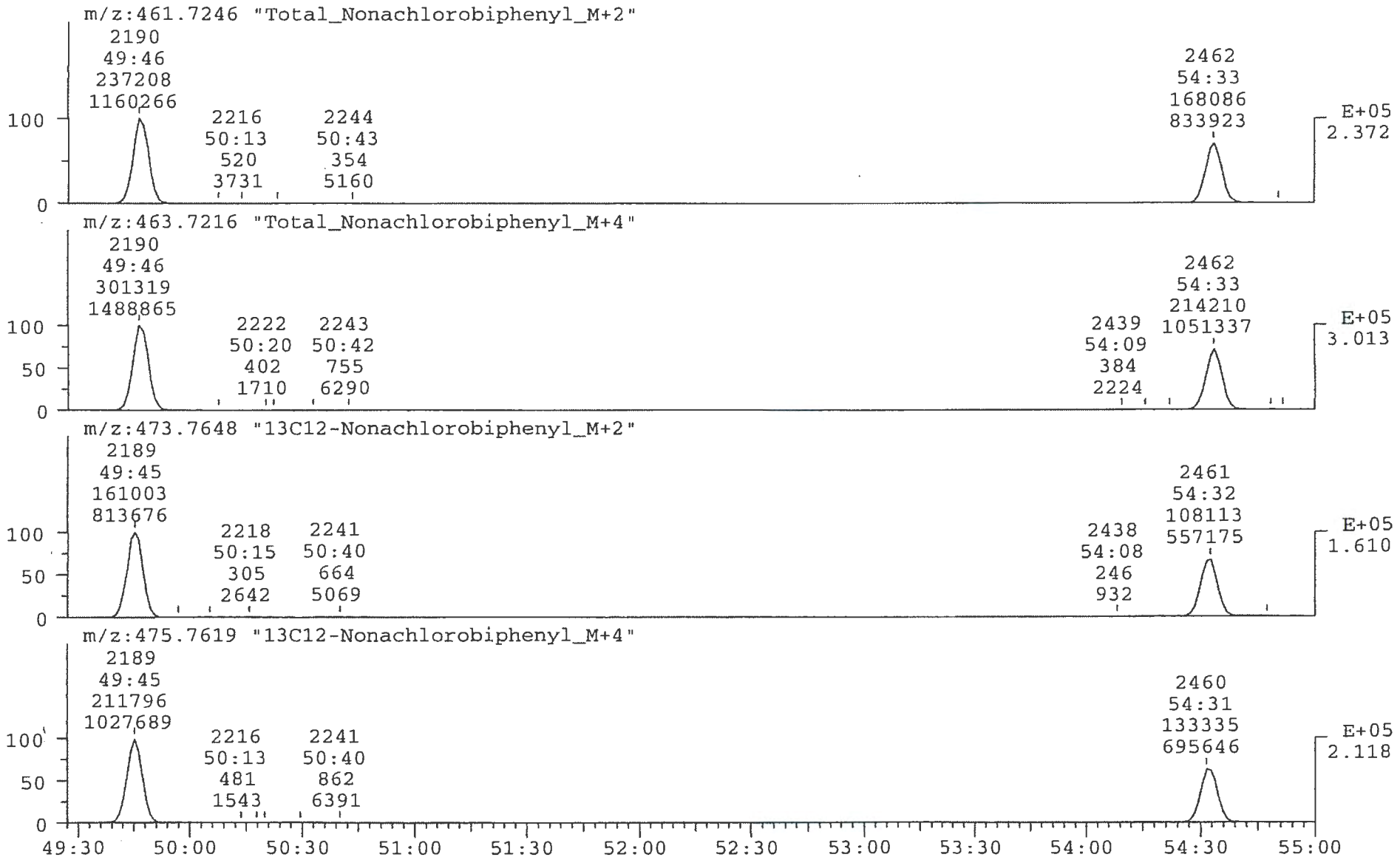


CHRO: a07030753 08-Mar-07 Elapse: 48:03 2097
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1747 > 2447 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

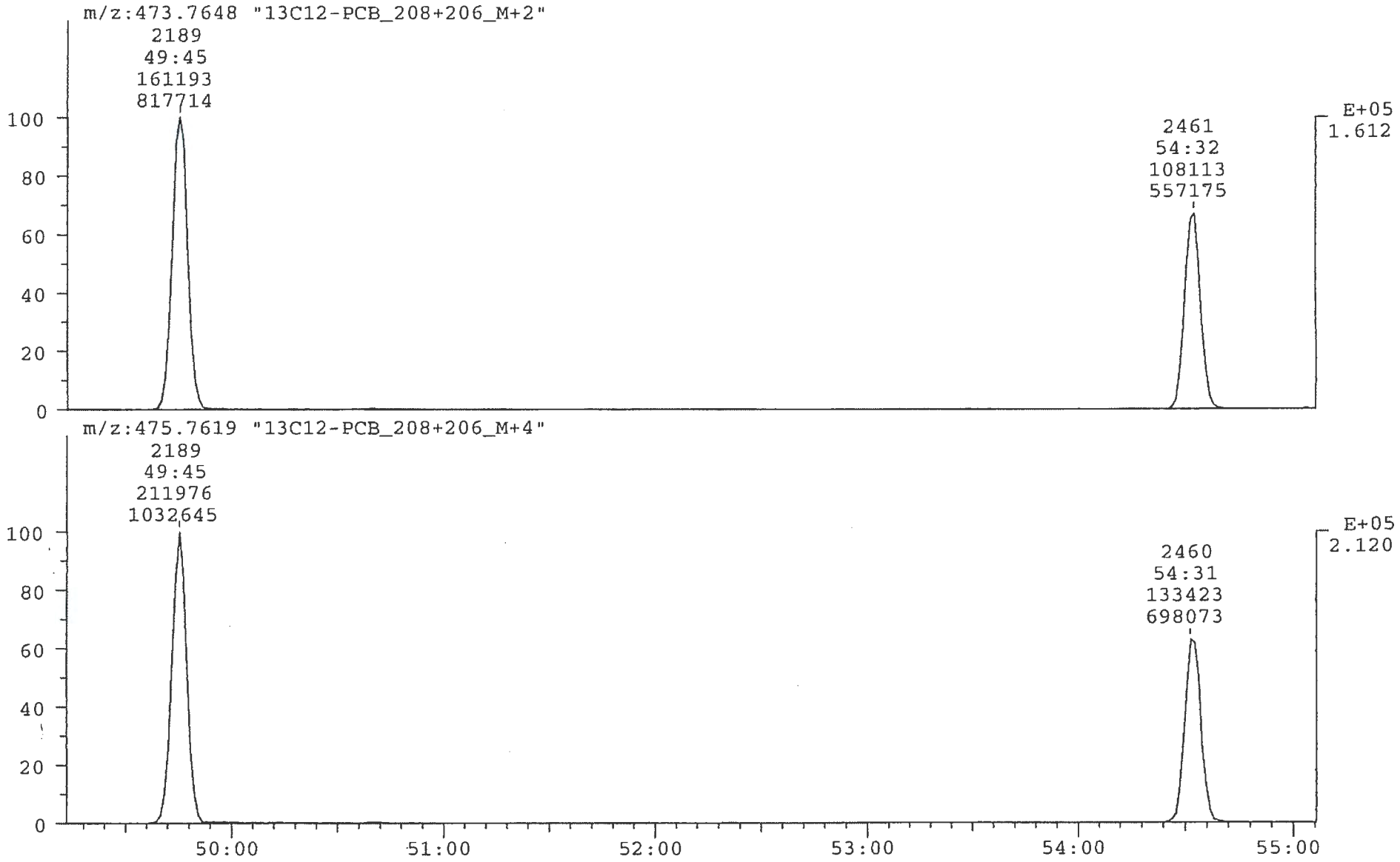


2614

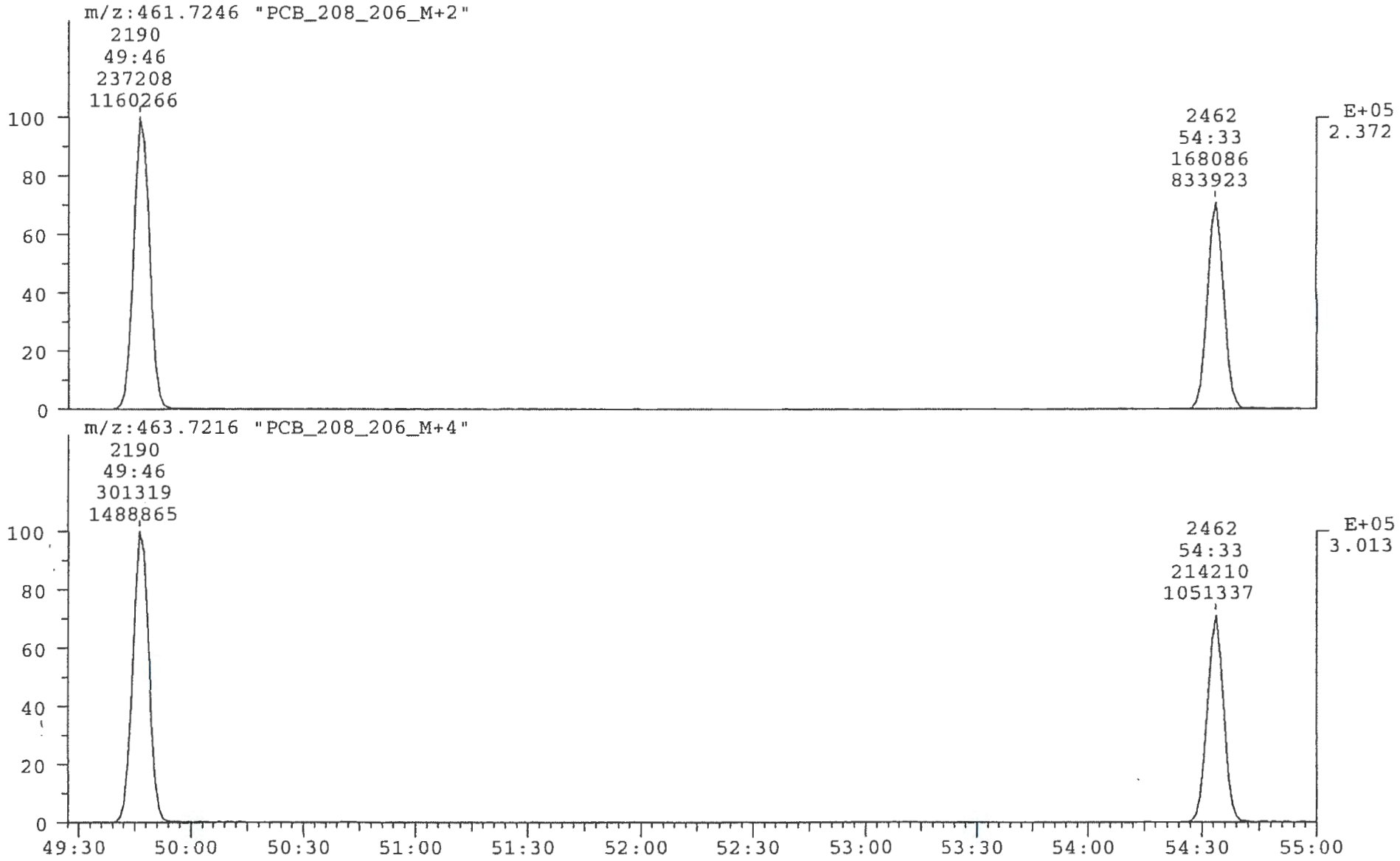
CHRO: a07030753 08-Mar-07 Elapse: 52:13 2329
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 2172 > 2487 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



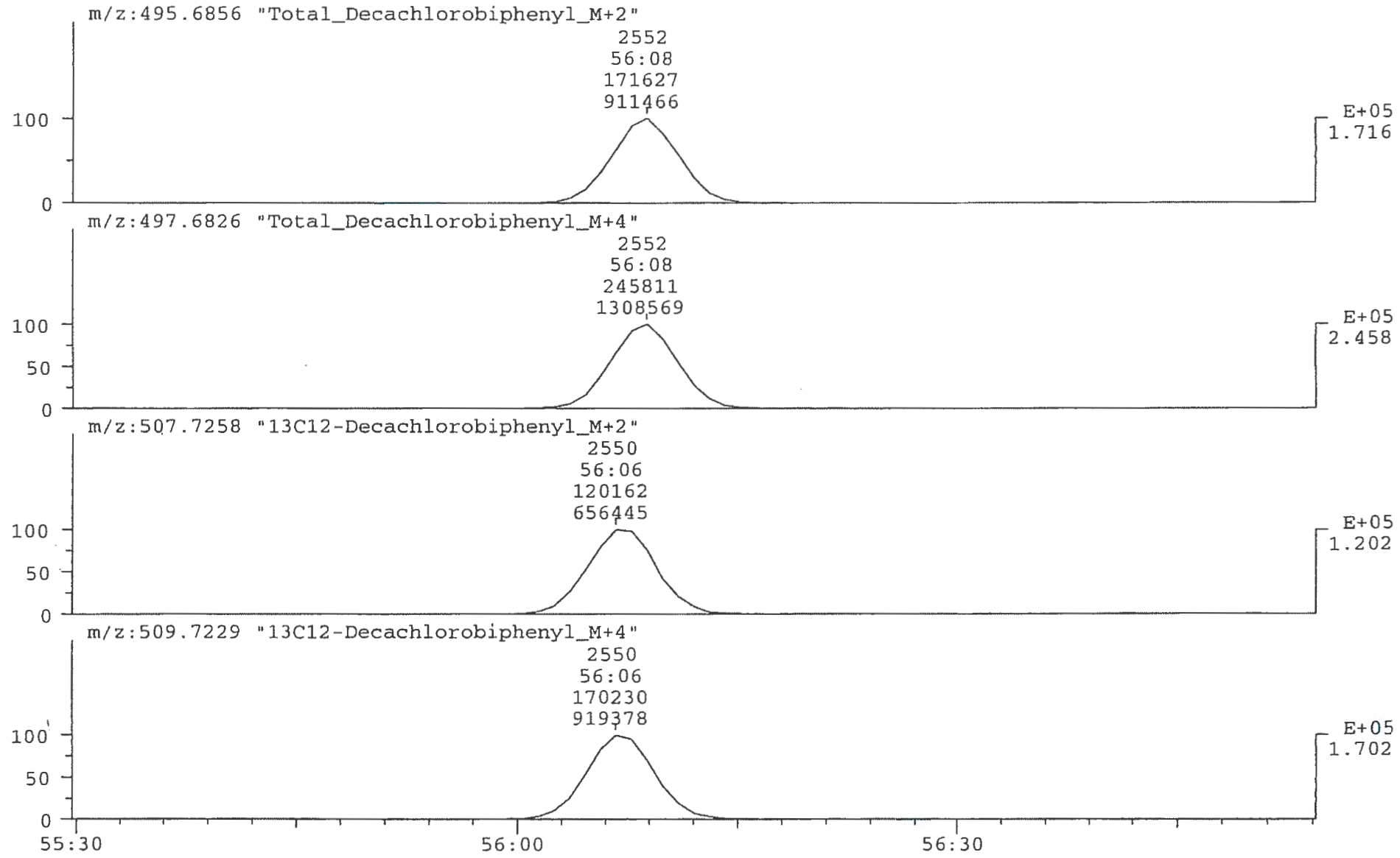
```
CHRO:  a07030753                              08-Mar-07   Elapse:  52:12      2328
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1               Start :  07:27:16   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   2163 > 2493         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030753 08-Mar-07 Elapse: 52:13 2329
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 07:27:16 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 2172 > 2487 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030753                                08-Mar-07   Elapse:  56:12      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  07:27:16   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   2515 > 2595           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030753
Study: 1668 RT Mix5/Run3
Sample: WO=2990:75Mix5 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 7
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 15 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:01 min	14:03 min	36:04 min	1.00 sec
# 3	36:05 min	13:10 min	49:15 min	1.00 sec
# 4	49:16 min	7:44 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	l	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668n

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
Purge time 1.5 min
Purge flow 40.0 ml/min
Gas saver is on
Saver time 3.0 min
Saver flow 15.0 ml/min
Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	258.0000
FVINLET	260.0000	FVSRC	823.0000	FWIN	0.7000
GCTC	202.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.2255	HVANAL	1286.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	269.8026
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2606.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8800	TCURR	0.7422
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 07:27:16.0

Autosampler has injected sample from vial 7
MID Time Window 1: Resolution is 8226
MID Time Window 2: Resolution is 7472
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 8803
Analysis stopped at: 08-Mar-07 08:24:18.7 (run time 57.03 minutes)
Analysis stopped because MID run finished

TA Knoxville Specialty Organics Group GC/MS Continuing Calibration Data Review Checklist
Method or SOP Number: KNOX-ID-0013 Revision 5

Start PFK:	11:00	End PFK:	20:34	CS3 Filename:	9071012S1	Inst:	MAT95	ICAL Date:	3-13-07

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?		✓			✓
2. Was the instrument resolution ≥8,000 throughout and ≥ 10,000 in the center of each m/z range. PFK m/z 192.9888, *230.9856, and *280.9824? PFK m/z 268.9824, *292.9824, and *380.9760? PFK m/z 342.9792, *380.9760, and *430.9728? PFK m/z 404.9760, *442.9728, and *530.9665?		✓			✓
3. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Were the MID switchpoints set to encompass the retention time windows of each congener group?		✓			✓
6. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187		✓			✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		✓			✓
8. Were the %D for all toxic analytes within ± 30% (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Were the %D for all LOC analytes within ± 30% (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209)		✓			✓
9. Were the %D for all non-toxic/non-LOC analytes within ± 30%?		✓			✓
10. If the %D for any non-toxic/non-LOC was not within ± 30, were response factors calculated from the continuing calibration for all non-toxic/non-LOC analytes with a %D greater than ± 30% but within ± 60%.	✓				✓
11. Were the response factors calculated for each labeled standard and unlabeled native analyte using the SOP specified reference compound, quantitation ions, and formula.		✓			✓
12. Were the absolute retention times of all labeled internal standards within ± 15 seconds of the retention times obtained during initial calibration?		✓			✓
13. Are %D within ± 50% for all labeled internal standards in the calibration?		✓			✓
14. Are the %D within ± 30% for all labeled surrogate standards in the calibration.		✓			✓
15. Are the %D within -40/+30% for all labeled cleanup standards in the calibration?		✓			✓
16. Are all S/N ratios ≥10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		✓			✓
17. Are RRTs of all unlabled toxic/LOC analytes within their respective RRT limits?		✓			✓
18. If PCB 156 and 157 were classified as uniquely resolved in the most recent initial calibration, was the valley between the two less than or equal to the 50% of the height of the shorter of the two peaks?	✓				✓
19. Are the ion abundance ratios for all labeled and unlabeled analytes within the specified control limits?		✓			✓
20. If manual integrations were performed, are they clearly identified, initialed and dated?		✓			✓
21. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				✓
22. Does the CCAL folder contain **complete** data in the following order? Data review checklist, a **complete** runlog, CCAL summary, Ratio summary, Calculation summary, PFK resolution/peak match documentation (HRMS only), and Total RIC, EICP's and manual integration - for window and both standards.		✓			✓

Analyst: DCS	Date: 10/12/07	2nd Level Reviewer : PMP	Date: 10-12-07
Comments:		Comments:	

*At reduced accelerating voltage

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT MAT 95 RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
10-12-07	11:00	DCG	PFK	—	OK	—	RES		MASS RES CHK
10-12-07	11:04	DCG	2990:71	9071012 5X1	OK	—	VER		1668VER
10-12-07	12:06	DCG	J8ALA1AC	9Pj8ala c	OK	biol	QC		H7J050000-087C
10-12-07	13:06	DCG	NONAME	5Pb5	OK	—	CQL		Flush
10-12-07	13:20 / 14:21	DCG	J8ALA1AA	9Pj8ala b	CS / OK	biol	QL		H7J050000-087B
10-12-07	15:25	DCG	J7V9M1AA	9Pj7v9m	OK	biol	SAM		H7I280209-001
10-12-07	16:27	DCG	J7V9M1AD	9Pj7v9mx	OK	biol	SAM		-001X
10-12-07	17:28	DCG	J7V9Q1AA	9Pj7v9q	OK	biol	SAM		-002
10-12-07	18:30	DCG	J7V9T1AA	9Pj7v9t	OK	biol	SAM		-003
10-12-07	19:32	DCG	J7V9W1AA	9Pj7v9w	OK	biol	SAM		-004
10-12-07	—	DCG	J7V901AA	9Pj7v90	DR	biol	SAM		-005
10-12-07	—	DCG	J7V911AA	9Pj7v91	DR	biol	SAM		-006
10-12-07	—	DCG	J7V931AA	9Pj7v93	DR	biol	SAM		-007
10-12-07	20:34	PMP	PFK	—	OK	—	RES		MASS RES CHK

Read and Understood by:

_____ Date: _____

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
I	13C12-PCB 1			M/M+2	3.22	2.66-3.60	1.318	1.276	-3.2	100	97	50-150	True
I	13C12-PCB 3			M/M+2	3.37	2.66-3.60	1.325	1.232	-7.0	100	93	50-150	True
	PCB 1 (BZ)	L		M/M+2	3.13	2.66-3.60	1.253	1.086	-13.3	50	43	35-65	True
	PCB 2 (BZ)			M/M+2	3.19	2.66-3.60	1.226	0.966	-21.2	50	39	35-65	True
	PCB 3 (BZ)	L		M/M+2	3.11	2.66-3.60	1.348	1.054	-21.8	50	39	35-65	True
I	13C12-PCB 4			M/M+2	1.62	1.33-1.79	0.615	0.636	3.4	100	103	50-150	True
R	13C12-PCB 9			M/M+2	1.63	1.33-1.79	1.000	1.000	0.0	100	100	-	
S	13C12-PCB 8			M/M+2	1.60	1.33-1.79	1.332	1.239	-7.0	50	46	35-65	True
I	13C12-PCB 15			M/M+2	1.61	1.33-1.79	1.065	0.998	-6.3	100	94	50-150	True
	PCB 4 (BZ)	L		M/M+2	1.51	1.33-1.79	1.212	1.127	-7.0	50	47	35-65	True
	PCB 10 (BZ)			M/M+2	1.59	1.33-1.79	1.326	1.306	-1.5	50	49	35-65	True
	PCB 9 (BZ)			M/M+2	1.60	1.33-1.79	1.445	1.359	-5.9	50	47	35-65	True
	PCB 7 (BZ)			M/M+2	1.65	1.33-1.79	1.432	1.371	-4.2	50	48	35-65	True
	PCB 6 (BZ)			M/M+2	1.63	1.33-1.79	1.450	1.334	-8.0	50	46	35-65	True
	PCB 5 (BZ)			M/M+2	1.61	1.33-1.79	1.356	1.172	-13.6	50	43	35-65	True
	PCB 8 (BZ)			M/M+2	1.63	1.33-1.79	1.477	1.449	-1.9	50	49	35-65	True
	PCB 14 (BZ)			M/M+2	1.57	1.33-1.79	1.687	1.526	-9.6	50	45	35-65	True
	PCB 11 (BZ)			M/M+2	1.61	1.33-1.79	1.448	1.284	-11.3	50	44	35-65	True
	PCB 13 (BZ)		C12	M/M+2	1.58	1.33-1.79	1.454	1.274	-12.4	100 a	88	70-130	True
	PCB 12 (BZ)		C12	M/M+2		1.33-1.79	1.454		0.0	100 a	88	70-130	C12
	PCB 15 (BZ)	L		M/M+2	1.64	1.33-1.79	1.233	1.115	-9.5	50	45	35-65	True
I	13C12-PCB 19			M/M+2	1.11	0.88-1.20	0.558	0.611	9.3	100	109	50-150	True
R	13C12-PCB 32			M/M+2	1.08	0.88-1.20	1.000	1.000	0.0	100	100	-	
R	13C12-PCB 31			M/M+2	1.08	0.88-1.20	1.000	1.000	0.0	100	100	-	
C	13C12-PCB 28			M/M+2	1.03	0.88-1.20	0.968	1.008	4.2	50	52	35-65 b	True
I	13C12-PCB 37			M/M+2	1.07	0.88-1.20	0.885	0.872	-1.5	100	98	50-150	True
	PCB 19 (BZ)	L		M/M+2	1.07	0.88-1.20	1.178	1.210	2.7	50	51	35-65	True
	PCB 30 (BZ)			M/M+2	1.06	0.88-1.20	1.874	1.742	-7.1	50	46	35-65	True
	PCB 18 (BZ)			M/M+2	1.06	0.88-1.20	1.262	1.227	-2.8	50	49	35-65	True
	PCB 17 (BZ)			M/M+2	1.06	0.88-1.20	1.326	1.287	-3.0	50	49	35-65	True
	PCB 27 (BZ)			M/M+2	1.05	0.88-1.20	1.945	1.763	-9.4	50	45	35-65	True
	PCB 24 (BZ)			M/M+2	1.05	0.88-1.20	1.782	1.780	-0.1	50	50	35-65	True
	PCB 16 (BZ)			M/M+2	1.09	0.88-1.20	1.157	1.121	-3.2	50	48	35-65	True
	PCB 32 (BZ)			M/M+2	1.06	0.88-1.20	1.966	1.942	-1.2	50	49	35-65	True
	PCB 34 (BZ)			M/M+2	0.98	0.88-1.20	1.216	1.090	-10.3	50	45	35-65	True
	PCB 23 (BZ)			M/M+2	0.98	0.88-1.20	1.208	1.176	-2.6	50	49	35-65	True
	PCB 29 (BZ)		C26	M/M+2	0.98	0.88-1.20	1.265	1.169	-7.6	100 a	92	70-130	True
	PCB 26 (BZ)		C26	M/M+2		0.88-1.20	1.265		0.0	100 a	92	70-130	C26
	PCB 25 (BZ)			M/M+2	0.97	0.88-1.20	1.362	1.273	-6.5	50	47	35-65	True
	PCB 31 (BZ)			M/M+2	0.96	0.88-1.20	1.285	1.186	-7.7	50	46	35-65	True
	PCB 28 (BZ)		C20	M/M+2	0.97	0.88-1.20	1.238	1.118	-9.7	100 a	90	70-130	True
	PCB 20 (BZ)		C20	M/M+2		0.88-1.20	1.238		0.0	100 a	90	70-130	C20
	PCB 21 (BZ)		C21	M/M+2		0.88-1.20	1.276		0.0	100 a	99	70-130	C21

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

DCG 10-12-07
Prep 10-12-07

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 33 (BZ)		C21	M/M+2	0.98	0.88-1.20	1.276	1.260	-1.2	100	a	99	70-130	True
	PCB 22 (BZ)			M/M+2	0.99	0.88-1.20	1.218	1.094	-10.2	50		45	35-65	True
	PCB 36 (BZ)			M/M+2	0.96	0.88-1.20	1.286	1.166	-9.3	50		45	35-65	True
	PCB 39 (BZ)			M/M+2	1.01	0.88-1.20	1.330	1.151	-13.4	50		43	35-65	True
	PCB 38 (BZ)			M/M+2	1.00	0.88-1.20	1.246	1.063	-14.7	50		43	35-65	True
	PCB 35 (BZ)			M/M+2	1.00	0.88-1.20	1.195	1.069	-10.6	50		45	35-65	True
	PCB 37 (BZ)	L		M/M+2	1.00	0.88-1.20	1.224	1.079	-11.9	50		44	35-65	True
I	13C12-PCB 54			M/M+2	0.81	0.65-0.89	0.598	0.569	-4.7	100		95	50-150	True
R	13C12-PCB 52			M/M+2	0.78	0.65-0.89	1.000	1.000	0.0	100		100	-	
S	13C12-PCB 79			M/M+2	0.79	0.65-0.89	1.089	1.048	-3.7	50		48	35-65	True
I	13C12-PCB 81			M/M+2	0.78	0.65-0.89	1.286	1.186	-7.8	100		92	50-150	True
I	13C12-PCB 77			M/M+2	0.78	0.65-0.89	1.297	1.191	-8.2	100		92	50-150	True
	PCB 54 (BZ)	L		M/M+2	0.81	0.65-0.89	1.211	1.258	3.9	50		52	35-65	True
	PCB 50 (BZ)		C50	M/M+2	0.77	0.65-0.89	0.927	0.990	6.8	100	a	107	70-130	True
	PCB 53 (BZ)		C50	M/M+2		0.65-0.89	0.927		0.0	100	a	107	70-130	C50
	PCB 45 (BZ)		C45	M/M+2	0.77	0.65-0.89	0.857	0.947	10.5	100	a	111	70-130	True
	PCB 51 (BZ)		C45	M/M+2		0.65-0.89	0.857		0.0	100	a	111	70-130	C45
	PCB 46 (BZ)			M/M+2	0.77	0.65-0.89	0.706	0.770	9.0	50		54	35-65	True
	PCB 52 (BZ)			M/M+2	0.78	0.65-0.89	0.926	0.898	-3.0	50		49	35-65	True
	PCB 73 (BZ)		C43	M/M+2	0.78	0.65-0.89	0.957	1.009	5.4	100	a	105	70-130	True
	PCB 43 (BZ)		C43	M/M+2		0.65-0.89	0.957		0.0	100	a	105	70-130	C43
	PCB 69 (BZ)			M/M+2	0.75	0.65-0.89	1.180	1.160	-1.8	50		49	35-65	True
	PCB 49 (BZ)			M/M+2	0.80	0.65-0.89	1.005	1.067	6.1	50		53	35-65	True
	PCB 48 (BZ)			M/M+2	0.80	0.65-0.89	0.886	0.871	-1.7	50		49	35-65	True
	PCB 65 (BZ)		C44	M/M+2	0.79	0.65-0.89	1.024	1.023	0.0	150	a	150	105-195	True
	PCB 47 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	150	105-195	C44
	PCB 44 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	150	105-195	C44
	PCB 62 (BZ)		C59	M/M+2	0.78	0.65-0.89	1.297	1.299	0.2	150	a	150	105-195	True
	PCB 75 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	150	105-195	C59
	PCB 59 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	150	105-195	C59
	PCB 42 (BZ)			M/M+2	0.78	0.65-0.89	0.860	0.901	4.8	50		52	35-65	True
	PCB 41 (BZ)			M/M+2	0.80	0.65-0.89	0.723	0.666	-8.0	50		46	35-65	True
	PCB 71 (BZ)		C40	M/M+2	0.77	0.65-0.89	0.953	1.009	5.8	100	a	106	70-130	True
	PCB 40 (BZ)		C40	M/M+2		0.65-0.89	0.953		0.0	100	a	106	70-130	C40
	PCB 64 (BZ)			M/M+2	0.77	0.65-0.89	1.313	1.419	8.1	50		54	35-65	True
	PCB 72 (BZ)			M/M+2	0.79	0.65-0.89	1.257	1.230	-2.2	50		49	35-65	True
	PCB 68 (BZ)			M/M+2	0.78	0.65-0.89	1.327	1.311	-1.2	50		49	35-65	True
	PCB 57 (BZ)			M/M+2	0.81	0.65-0.89	1.194	1.148	-3.9	50		48	35-65	True
	PCB 58 (BZ)			M/M+2	0.78	0.65-0.89	1.260	1.174	-6.8	50		47	35-65	True
	PCB 67 (BZ)			M/M+2	0.76	0.65-0.89	1.286	1.288	0.1	50		50	35-65	True
	PCB 63 (BZ)			M/M+2	0.78	0.65-0.89	1.339	1.273	-4.9	50		48	35-65	True
	PCB 61 (BZ)			M/M+2	0.79	0.65-0.89	1.190	1.057	-11.2	50		44	35-65	True
	PCB 70 (BZ)		C70	M/M+2	0.78	0.65-0.89	1.317	1.319	0.1	150	a	150	105-195	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 76 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150 a	150	105-195	C70
	PCB 74 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150 a	150	105-195	C70
	PCB 66 (BZ)			M/M+2	0.79	0.65-0.89	1.289	1.184	-8.2	50	46	35-65	True
	PCB 55 (BZ)			M/M+2	0.77	0.65-0.89	1.161	1.097	-5.5	50	47	35-65	True
	PCB 56 (BZ)			M/M+2	0.77	0.65-0.89	1.231	1.130	-8.2	50	46	35-65	True
	PCB 60 (BZ)			M/M+2	0.77	0.65-0.89	1.191	1.156	-2.9	50	49	35-65	True
	PCB 80 (BZ)			M/M+2	0.77	0.65-0.89	1.416	1.415	-0.1	50	50	35-65	True
	PCB 79 (BZ)			M/M+2	0.80	0.65-0.89	1.371	1.289	-5.9	50	47	35-65	True
	PCB 78 (BZ)			M/M+2	0.73	0.65-0.89	1.181	1.117	-5.4	50	47	35-65	True
	PCB 81 (BZ)	T		M/M+2	0.76	0.65-0.89	1.317	1.206	-8.5	50	46	35-65	True
	PCB 77 (BZ)	T		M/M+2	0.79	0.65-0.89	1.200	1.137	-5.2	50	47	35-65	True
I	13C12-PCB 104			M+2/M+4	1.61	1.32-1.78	1.260	1.374	9.1	100	109	50-150	True
S	13C12-PCB 95			M+2/M+4	1.59	1.32-1.78	0.741	0.677	-8.6	50	46	35-65	True
R	13C12-PCB 101			M+2/M+4	1.60	1.32-1.78	1.000	1.000	0.0	100	100	-	
C	13C12-PCB 111			M+2/M+4	1.63	1.32-1.78	1.229	1.235	0.5	50	50	35-65 b	True
I	13C12-PCB 123			M+2/M+4	1.64	1.32-1.78	0.955	0.986	3.3	100	103	50-150	True
I	13C12-PCB 118			M+2/M+4	1.60	1.32-1.78	0.988	1.063	7.6	100	108	50-150	True
I	13C12-PCB 114			M+2/M+4	1.63	1.32-1.78	0.971	0.976	0.5	100	101	50-150	True
I	13C12-PCB 105			M+2/M+4	1.60	1.32-1.78	0.941	0.960	2.0	100	102	50-150	True
R	13C12-PCB 127			M+2/M+4	1.61	1.32-1.78	1.000	1.000	0.0	100	100	-	
I	13C12-PCB 126			M+2/M+4	1.57	1.32-1.78	0.978	1.035	5.8	100	106	50-150	True
	PCB 104 (BZ)	L		M+2/M+4	1.62	1.32-1.78	1.149	1.076	-6.4	50	47	35-65	True
	PCB 96 (BZ)			M+2/M+4	1.61	1.32-1.78	1.014	0.948	-6.4	50	47	35-65	True
	PCB 103 (BZ)			M+2/M+4	1.62	1.32-1.78	0.866	0.784	-9.5	50	45	35-65	True
	PCB 94 (BZ)			M+2/M+4	1.58	1.32-1.78	0.703	0.665	-5.4	50	47	35-65	True
	PCB 95 (BZ)		C95	M+2/M+4	1.56	1.32-1.78	0.859	0.802	-6.6	100 a	93	70-130	True
	PCB 100 (BZ)		C95	M+2/M+4		1.32-1.78	0.859		0.0	100 a	93	70-130	C95
	PCB 93 (BZ)			M+2/M+4	1.69	1.32-1.78	0.701	0.700	-0.2	50	50	35-65	True
	PCB 102 (BZ)		C98	M+2/M+4	1.63	1.32-1.78	0.822	0.758	-7.8	100 a	92	70-130	True
	PCB 98 (BZ)		C98	M+2/M+4		1.32-1.78	0.822		0.0	100 a	92	70-130	C98
	PCB 88 (BZ)			M+2/M+4	1.55	1.32-1.78	0.723	0.633	-12.4	50	44	35-65	True
	PCB 91 (BZ)			M+2/M+4	1.61	1.32-1.78	0.864	0.802	-7.1	50	46	35-65	True
	PCB 84 (BZ)			M+2/M+4	1.55	1.32-1.78	0.679	0.597	-12.2	50	44	35-65	True
	PCB 89 (BZ)			M+2/M+4	1.62	1.32-1.78	0.717	0.643	-10.3	50	45	35-65	True
	PCB 121 (BZ)			M+2/M+4	1.56	1.32-1.78	1.105	1.019	-7.8	50	46	35-65	True
	PCB 92 (BZ)			M+2/M+4	1.60	1.32-1.78	0.772	0.713	-7.7	50	46	35-65	True
	PCB 113 (BZ)		C90	M+2/M+4	1.59	1.32-1.78	0.990	0.897	-9.4	150 a	136	105-195	True
	PCB 90 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150 a	136	105-195	C90
	PCB 101 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150 a	136	105-195	C90
	PCB 83 (BZ)		C83	M+2/M+4	1.63	1.32-1.78	0.777	0.708	-8.8	100 a	91	70-130	True
	PCB 99 (BZ)		C83	M+2/M+4		1.32-1.78	0.777		0.0	100 a	91	70-130	C83
	PCB 112 (BZ)			M+2/M+4	1.54	1.32-1.78	1.079	0.986	-8.6	50	46	35-65	True
	PCB 109 (BZ)/108 (IUPAC)		C86	M+2/M+4	1.60	1.32-1.78	0.967	0.879	-9.1	300 a	273	210-390	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 86 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	273	210-390	C86
	PCB 119 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	273	210-390	C86
	PCB 97 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	273	210-390	C86
	PCB 125 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	273	210-390	C86
	PCB 87 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300 a	273	210-390	C86
	PCB 117 (BZ)		C85	M+2/M+4	1.62	1.32-1.78	0.979	0.856	-12.6	150 a	131	105-195	True
	PCB 116 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150 a	131	105-195	C85
	PCB 85 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150 a	131	105-195	C85
	PCB 110 (BZ)		C110	M+2/M+4	1.56	1.32-1.78	1.139	1.044	-8.4	100 a	92	70-130	True
	PCB 115 (BZ)		C110	M+2/M+4		1.32-1.78	1.139		0.0	100 a	92	70-130	C110
	PCB 82 (BZ)			M+2/M+4	1.58	1.32-1.78	0.605	0.528	-12.8	50	44	35-65	True
	PCB 111 (BZ)			M+2/M+4	1.56	1.32-1.78	1.129	1.022	-9.5	50	45	35-65	True
	PCB 120 (BZ)			M+2/M+4	1.58	1.32-1.78	1.192	1.050	-11.9	50	44	35-65	True
	PCB 124 (BZ)		C108	M+2/M+4		1.32-1.78	1.123		0.0	100 a	92	70-130	C108
	PCB 108 (BZ)/107 (IUPAC)		C108	M+2/M+4	1.57	1.32-1.78	1.123	1.029	-8.4	100 a	92	70-130	True
	PCB 107 (BZ)/109 (IUPAC)			M+2/M+4	1.55	1.32-1.78	1.074	1.003	-6.6	50	47	35-65	True
	PCB 123 (BZ)	T		M+2/M+4	1.56	1.32-1.78	1.136	1.079	-5.0	50	47	35-65	True
	PCB 106 (BZ)			M+2/M+4	1.58	1.32-1.78	1.046	0.959	-8.3	50	46	35-65	True
	PCB 118 (BZ)	T		M+2/M+4	1.60	1.32-1.78	1.094	1.030	-5.9	50	47	35-65	True
	PCB 122 (BZ)			M+2/M+4	1.57	1.32-1.78	1.047	0.949	-9.4	50	45	35-65	True
	PCB 114 (BZ)	T		M+2/M+4	1.58	1.32-1.78	1.196	1.145	-4.3	50	48	35-65	True
	PCB 105 (BZ)	T		M+2/M+4	1.57	1.32-1.78	1.218	1.105	-9.3	50	45	35-65	True
	PCB 127 (BZ)			M+2/M+4	1.55	1.32-1.78	1.130	1.045	-7.5	50	46	35-65	True
	PCB 126 (BZ)	T		M+2/M+4	1.53	1.32-1.78	1.111	1.022	-8.0	50	46	35-65	True
I	13C12-PCB 155			M+2/M+4	1.27	1.05-1.43	1.178	1.301	10.4	100	110	50-150	True
S	13C12-PCB 153			M+2/M+4	1.29	1.05-1.43	0.833	0.799	-4.2	50	48	35-65	True
R	13C12-PCB 138			M+2/M+4	1.29	1.05-1.43	1.000	1.000	0.0	100	100	-	
I	13C12-PCB 167			M+2/M+4	1.27	1.05-1.43	1.237	1.268	2.5	100	103	50-150	True
I	13C12-PCB 156			M+2/M+4	1.29	1.05-1.43	1.229	1.253	1.9	200	204	100-300	True
I	13C12-PCB 157			M+2/M+4		1.05-1.43	0.000		0.0	0	0	0-0	C156L
I	13C12-PCB 169			M+2/M+4	1.30	1.05-1.43	1.188	1.170	-1.5	100	99	50-150	True
	PCB 155 (BZ)	L		M+2/M+4	1.29	1.05-1.43	1.117	1.054	-5.6	50	47	35-65	True
	PCB 152 (BZ)			M+2/M+4	1.25	1.05-1.43	1.023	0.970	-5.2	50	47	35-65	True
	PCB 150 (BZ)			M+2/M+4	1.28	1.05-1.43	1.032	1.026	-0.6	50	50	35-65	True
	PCB 136 (BZ)			M+2/M+4	1.30	1.05-1.43	0.967	0.925	-4.3	50	48	35-65	True
	PCB 145 (BZ)			M+2/M+4	1.26	1.05-1.43	1.021	0.980	-4.0	50	48	35-65	True
	PCB 148 (BZ)			M+2/M+4	1.23	1.05-1.43	0.749	0.704	-6.0	50	47	35-65	True
	PCB 151 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150 a	142	105-195	C135
	PCB 135 (BZ)		C135	M+2/M+4	1.27	1.05-1.43	0.781	0.739	-5.3	150 a	142	105-195	True
	PCB 154 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150 a	142	105-195	C135
	PCB 144 (BZ)			M+2/M+4	1.33	1.05-1.43	0.759	0.714	-5.9	50	47	35-65	True
	PCB 147 (BZ)		C147	M+2/M+4	1.24	1.05-1.43	0.862	0.862	0.0	100 a	100	70-130	True
	PCB 149 (BZ)		C147	M+2/M+4		1.05-1.43	0.862		0.0	100 a	100	70-130	C147

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 134 (BZ)		C134	M+2/M+4		1.05-1.43	0.711		0.0	100 a	96	70-130	C134
	PCB 143 (BZ)		C134	M+2/M+4	1.27	1.05-1.43	0.711	0.686	-3.5	100 a	96	70-130	True
	PCB 139 (BZ)		C139	M+2/M+4	1.29	1.05-1.43	0.856	0.841	-1.7	100 a	98	70-130	True
	PCB 140 (BZ)		C139	M+2/M+4		1.05-1.43	0.856		0.0	100 a	98	70-130	C139
	PCB 131 (BZ)			M+2/M+4	1.26	1.05-1.43	0.713	0.686	-3.8	50	48	35-65	True
	PCB 142 (BZ)			M+2/M+4	1.28	1.05-1.43	0.735	0.678	-7.8	50	46	35-65	True
	PCB 132 (BZ)			M+2/M+4	1.23	1.05-1.43	0.710	0.688	-3.2	50	48	35-65	True
	PCB 133 (BZ)			M+2/M+4	1.25	1.05-1.43	0.768	0.744	-3.2	50	48	35-65	True
	PCB 165 (BZ)			M+2/M+4	1.29	1.05-1.43	0.993	0.952	-4.1	50	48	35-65	True
	PCB 146 (BZ)			M+2/M+4	1.27	1.05-1.43	0.874	0.840	-3.9	50	48	35-65	True
	PCB 161 (BZ)			M+2/M+4	1.27	1.05-1.43	1.090	1.072	-1.6	50	49	35-65	True
	PCB 153 (BZ)		C153	M+2/M+4	1.26	1.05-1.43	1.068	1.052	-1.6	100 a	98	70-130	True
	PCB 168 (BZ)		C153	M+2/M+4		1.05-1.43	1.068		0.0	100 a	98	70-130	C153
	PCB 141 (BZ)			M+2/M+4	1.30	1.05-1.43	0.756	0.751	-0.6	50	50	35-65	True
	PCB 130 (BZ)			M+2/M+4	1.25	1.05-1.43	0.708	0.670	-5.4	50	47	35-65	True
	PCB 137 (BZ)			M+2/M+4	1.25	1.05-1.43	0.835	0.823	-1.5	50	49	35-65	True
	PCB 164 (BZ)			M+2/M+4	1.28	1.05-1.43	1.033	1.004	-2.9	50	49	35-65	True
	PCB 138 (BZ)		C129	M+2/M+4	1.29	1.05-1.43	0.922	0.893	-3.1	200 a	194	140-260	True
	PCB 163 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	194	140-260	C129
	PCB 129 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	194	140-260	C129
	PCB 160 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	194	140-260	C129
	PCB 158 (BZ)			M+2/M+4	1.29	1.05-1.43	1.191	1.156	-2.9	50	49	35-65	True
	PCB 166 (BZ)			M+2/M+4	1.28	1.05-1.43	1.102	1.072	-2.7	50	49	35-65	True
	PCB 128 (BZ)			M+2/M+4	1.22	1.05-1.43	0.769	0.749	-2.6	50	49	35-65	True
	PCB 159 (BZ)			M+2/M+4	1.28	1.05-1.43	1.079	1.043	-3.4	50	48	35-65	True
	PCB 162 (BZ)			M+2/M+4	1.28	1.05-1.43	1.079	1.037	-3.9	50	48	35-65	True
	PCB 167 (BZ)	T		M+2/M+4	1.25	1.05-1.43	1.150	1.071	-6.9	50	47	35-65	True
	PCB 156 (BZ)	T	C156	M+2/M+4	1.28	1.05-1.43	1.151	1.092	-5.1	100 a	95	70-130	True
	PCB 157 (BZ)	T	C156	M+2/M+4		1.05-1.43	1.151		0.0	0 a	**95**	0-0	C156
	PCB 169 (BZ)	T		M+2/M+4	1.27	1.05-1.43	1.337	1.174	-12.2	50	44	35-65	True
I	13C12-PCB 188			M+2/M+4	1.07	0.89-1.21	1.238	1.306	5.5	100	105	50-150	True
C	13C12-PCB 178			M+2/M+4	1.03	0.89-1.21	0.863	0.819	-5.1	50	47	35-65 b	True
R	13C12-PCB 180			M+2/M+4	1.05	0.89-1.21	1.000	1.000	0.0	100	100	-	
I	13C12-PCB 170			M+2/M+4	1.06	0.89-1.21	0.813	0.827	1.6	100	102	50-150	True
I	13C12-PCB 189			M+2/M+4	1.07	0.89-1.21	1.620	1.634	0.9	100	101	50-150	True
	PCB 188 (BZ)	L		M+2/M+4	1.02	0.89-1.21	1.071	0.986	-7.9	50	46	35-65	True
	PCB 179 (BZ)			M+2/M+4	1.03	0.89-1.21	1.200	1.114	-7.2	50	46	35-65	True
	PCB 184 (BZ)			M+2/M+4	1.00	0.89-1.21	1.178	1.101	-6.6	50	47	35-65	True
	PCB 176 (BZ)			M+2/M+4	1.03	0.89-1.21	1.252	1.194	-4.6	50	48	35-65	True
	PCB 186 (BZ)			M+2/M+4	1.04	0.89-1.21	1.214	1.136	-6.4	50	47	35-65	True
	PCB 178 (BZ)			M+2/M+4	1.09	0.89-1.21	0.889	0.795	-10.6	50	45	35-65	True
	PCB 175 (BZ)			M+2/M+4	1.05	0.89-1.21	0.920	0.843	-8.4	50	46	35-65	True
	PCB 187 (BZ)			M+2/M+4	1.04	0.89-1.21	1.009	0.945	-6.3	50	47	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 182 (BZ)			M+2/M+4	1.05	0.89-1.21	0.972	0.943	-2.9	50		49	35-65	True
	PCB 183 (BZ)			M+2/M+4	1.04	0.89-1.21	0.946	0.894	-5.5	50		47	35-65	True
	PCB 185 (BZ)			M+2/M+4	1.03	0.89-1.21	0.919	0.829	-9.7	50		45	35-65	True
	PCB 174 (BZ)			M+2/M+4	1.06	0.89-1.21	0.924	0.854	-7.5	50		46	35-65	True
	PCB 177 (BZ)			M+2/M+4	1.01	0.89-1.21	0.880	0.801	-9.0	50		46	35-65	True
	PCB 181 (BZ)			M+2/M+4	1.06	0.89-1.21	0.975	0.884	-9.3	50		45	35-65	True
	PCB 171 (BZ)		C171	M+2/M+4		0.89-1.21	0.835		0.0	100	a	93	70-130	C171
	PCB 173 (BZ)		C171	M+2/M+4	1.03	0.89-1.21	0.835	0.778	-6.8	100	a	93	70-130	True
	PCB 172 (BZ)			M+2/M+4	1.06	0.89-1.21	0.838	0.776	-7.4	50		46	35-65	True
	PCB 192 (BZ)			M+2/M+4	1.09	0.89-1.21	1.147	1.030	-10.2	50		45	35-65	True
	PCB 193 (BZ)		C180	M+2/M+4	1.05	0.89-1.21	1.134	1.068	-5.8	100	a	94	70-130	True
	PCB 180 (BZ)		C180	M+2/M+4		0.89-1.21	1.134		0.0	100	a	94	70-130	C180
	PCB 191 (BZ)			M+2/M+4	1.04	0.89-1.21	1.228	1.131	-7.8	50		46	35-65	True
	PCB 170 (BZ)			M+2/M+4	1.07	0.89-1.21	1.058	1.005	-5.0	50		48	35-65	True
	PCB 190 (BZ)			M+2/M+4	1.03	0.89-1.21	1.254	1.203	-4.0	50		48	35-65	True
	PCB 189 (BZ)	T		M+2/M+4	1.02	0.89-1.21	1.097	1.065	-2.9	50		49	35-65	True
I	13C12-PCB 202			M+2/M+4	0.91	0.76-1.02	0.994	1.095	10.2	100		110	50-150	True
R	13C12-PCB 194			M+2/M+4	0.90	0.76-1.02	1.000	1.000	0.0	100		100	-	
I	13C12-PCB 205			M+2/M+4	0.92	0.76-1.02	1.407	1.420	0.9	100		101	50-150	True
	PCB 202 (BZ)	L		M+2/M+4	0.87	0.76-1.02	0.993	0.939	-5.4	50		47	35-65	True
	PCB 200 (BZ)/201 (IUPAC)			M+2/M+4	0.87	0.76-1.02	1.087	1.022	-6.0	50		47	35-65	True
	PCB 204 (BZ)			M+2/M+4	0.90	0.76-1.02	1.033	0.954	-7.6	50		46	35-65	True
	PCB 197 (BZ)			M+2/M+4	0.86	0.76-1.02	1.061	1.009	-4.9	50		48	35-65	True
	PCB 199 (BZ)/200 (IUPAC)			M+2/M+4	0.90	0.76-1.02	1.031	0.988	-4.2	50		48	35-65	True
	PCB 198 (BZ)		C198	M+2/M+4	0.89	0.76-1.02	0.761	0.705	-7.4	100	a	93	70-130	True
	PCB 201 (BZ)/199 (IUPAC)		C198	M+2/M+4		0.76-1.02	0.761		0.0	100	a	93	70-130	C198
	PCB 196 (BZ)			M+2/M+4	0.89	0.76-1.02	0.752	0.688	-8.6	50		46	35-65	True
	PCB 203 (BZ)			M+2/M+4	0.87	0.76-1.02	0.856	0.760	-11.2	50		44	35-65	True
	PCB 195 (BZ)			M+2/M+4	0.91	0.76-1.02	0.723	0.726	0.5	50		50	35-65	True
	PCB 194 (BZ)			M+2/M+4	0.91	0.76-1.02	0.795	0.778	-2.1	50		49	35-65	True
	PCB 205 (BZ)	L		M+2/M+4	0.89	0.76-1.02	0.984	0.953	-3.2	50		48	35-65	True
I	13C12-PCB 208			M+2/M+4	0.78	0.65-0.89	1.161	1.336	15.1	100		115	50-150	True
I	13C12-PCB 206			M+2/M+4	0.76	0.65-0.89	0.823	0.864	5.1	100		105	50-150	True
	PCB 208 (BZ)	L		M+2/M+4	0.77	0.65-0.89	1.026	0.957	-6.8	50		47	35-65	True
	PCB 207 (BZ)			M+2/M+4	0.78	0.65-0.89	1.264	1.197	-5.3	50		47	35-65	True
	PCB 206 (BZ)	L		M+2/M+4	0.77	0.65-0.89	1.097	1.062	-3.2	50		48	35-65	True
I	13C12-PCB 209			M+2/M+4	0.69	0.59-0.79	0.930	1.081	16.3	100		116	50-150	True
	PCB 209 (BZ)	L		M+2/M+4	0.68	0.59-0.79	1.006	1.004	-0.2	50		50	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 186 False: 0 Warning: ~~25~~24 DC 3/10/2008

Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
I 13C12-PCB 1			12:12	12:18	6	15	0.7323	0.7336	0.7173-0.7473	True
I 13C12-PCB 3			14:25	14:32	7	15	0.8653	0.8668	0.8503-0.8803	True
PCB 1 (BZ)	L		12:13	12:19	6		1.0015	1.0014	0.9946-1.0083	True
PCB 2 (BZ)			14:16	14:21	5		0.9894	0.9874	0.9859-0.9928	True
PCB 3 (BZ)	L		14:26	14:33	7		1.0009	1.0011	0.9975-1.0044	True
I 13C12-PCB 4			14:42	14:49	7	15	0.8827	0.8837	0.8677-0.8977	True
R 13C12-PCB 9			16:39	16:46	7		1.0000	1.0000	0.9875-1.0125	True
S 13C12-PCB 8			17:32	17:39	7		1.1927	1.1912	1.1893-1.1961	True
I 13C12-PCB 15			20:41	20:49	8	15	1.2412	1.2416	1.2312-1.2512	True
PCB 4 (BZ)	L		14:43	14:50	7		1.0012	1.0011	0.9955-1.0069	True
PCB 10 (BZ)			14:54	14:59	5		1.0129	1.0112	1.0095-1.0163	True
PCB 9 (BZ)			16:41	16:47	6		1.1349	1.1327	1.1315-1.1383	True
PCB 7 (BZ)			16:50	16:56	6		1.1451	1.1429	1.1417-1.1485	True
PCB 6 (BZ)			17:07	17:14	7		1.1647	1.1631	1.1613-1.1681	True
PCB 5 (BZ)			17:26	17:33	7		1.1859	1.1845	1.1825-1.1893	True
PCB 8 (BZ)			17:34	17:41	7		1.1946	1.1935	1.1912-1.1980	True
PCB 14 (BZ)			19:09	19:15	6		0.9264	0.9247	0.9239-0.9288	True
PCB 11 (BZ)			20:04	20:10	6		0.9704	0.9688	0.9680-0.9728	True
PCB 13 (BZ)		C12	20:20	20:30	10		0.9836	0.9848	0.9811-0.9860	True
PCB 12 (BZ)		C12	20:23				0.9857		0.9833-0.9881	C12
PCB 15 (BZ)	L		20:41	20:50	9		1.0007	1.0008	0.9967-1.0048	True
I 13C12-PCB 19			17:53	18:01	8	15	0.8458	0.8478	0.8340-0.8576	True
R 13C12-PCB 32			21:09	21:15	6		1.0000	1.0000	0.9976-1.0024	True
R 13C12-PCB 31			23:24	23:30	6		1.0000	1.0000	0.9979-1.0021	True
C 13C12-PCB 28			23:41	23:47	6		1.0123	1.0121	1.0052-1.0195	True
I 13C12-PCB 37			27:46	27:54	8	15	1.1869	1.1872	1.1762-1.1976	True
PCB 19 (BZ)	L		17:55	18:02	7		1.0014	1.0009	0.9967-1.0060	True
PCB 30 (BZ)			19:38	19:42	4		1.0982	**1.0934**	1.0955-1.1010	**Warning**
PCB 18 (BZ)			19:45	19:52	7		1.1048	1.1027	1.1020-1.1076	True
PCB 17 (BZ)			20:10	20:16	6		1.1271	1.1249	1.1243-1.1299	True
PCB 27 (BZ)			20:25	20:31	6		1.1414	1.1388	1.1386-1.1442	True
PCB 24 (BZ)			20:31	20:38	7		1.1473	1.1452	1.1445-1.1501	True
PCB 16 (BZ)			20:41	20:49	8		1.1560	1.1554	1.1532-1.1588	True
PCB 32 (BZ)			21:11	21:16	5		1.1839	**1.1804**	1.1812-1.1867	**Warning**
PCB 34 (BZ)			22:24	22:29	5		1.2523	**1.2479**	1.2495-1.2550	**Warning**
PCB 23 (BZ)			22:31	22:37	6		1.2591	**1.2553**	1.2563-1.2619	**Warning**
PCB 29 (BZ)		C26	22:51	22:58	7		1.2771	1.2747	1.2724-1.2818	True
PCB 26 (BZ)		C26	22:52				1.2790		1.2743-1.2836	C26
PCB 25 (BZ)			23:05	23:12	7		0.8313	0.8315	0.8295-0.8331	True
PCB 31 (BZ)			23:26	23:31	5		0.8437	0.8429	0.8419-0.8455	True
PCB 28 (BZ)		C20	23:42	23:48	6		0.8537	0.8530	0.8507-0.8567	True
PCB 20 (BZ)		C20	23:47				0.8565		0.8535-0.8595	C20
PCB 21 (BZ)		C21	23:54				0.8607		0.8577-0.8637	C21
PCB 33 (BZ)		C21	24:00	24:06	6		0.8643	0.8638	0.8613-0.8673	True
PCB 22 (BZ)			24:24	24:32	8		0.8787	0.8793	0.8769-0.8805	True
PCB 36 (BZ)			25:55	25:59	4		0.9329	0.9313	0.9311-0.9347	True
PCB 39 (BZ)			26:16	26:23	7		0.9459	0.9456	0.9441-0.9477	True
PCB 38 (BZ)			26:52	26:57	5		0.9672	0.9659	0.9654-0.9690	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1
ICAL Date: 03/13/07
CCAL Filename: a071012s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071012s1/a071012s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/12/07 11:04
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 186 False: 0 Warning: 25

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 35 (BZ)			27:23	27:29	6		0.9862	0.9851	0.9844-0.9880	True
	PCB 37 (BZ)	L		27:48	27:55	7		1.0006	1.0006	0.9988-1.0024	True
I	13C12-PCB 54			21:02	21:10	8	15	0.8233	0.8257	0.8168-0.8298	True
R	13C12-PCB 52			25:33	25:38	5		1.0000	1.0000	0.9918-1.0082	True
S	13C12-PCB 79			33:28	33:32	4		0.9699	0.9687	0.9685-0.9714	True
I	13C12-PCB 81			34:30	34:37	7	15	1.3506	1.3505	1.3440-1.3571	True
I	13C12-PCB 77			35:06	35:13	7	15	1.3737	1.3739	1.3672-1.3803	True
	PCB 54 (BZ)	L		21:03	21:11	8		1.0006	1.0008	0.9967-1.0046	True
	PCB 50 (BZ)		C50	23:10	23:14	4		1.1015	1.0976	1.0976-1.1055	True
	PCB 53 (BZ)		C50	23:11				1.1026		1.0986-1.1065	C50
	PCB 45 (BZ)		C45	23:53	24:01	8		1.1361	1.1346	1.1322-1.1401	True
	PCB 51 (BZ)		C45	23:56				1.1377		1.1337-1.1417	C45
	PCB 46 (BZ)			24:14	24:21	7		1.1520	1.1504	1.1496-1.1543	True
	PCB 52 (BZ)			25:34	25:39	5		1.2161	**1.2118**	1.2138-1.2185	**Warning**
	PCB 73 (BZ)		C43	25:41	25:47	6		1.2214	**1.2181**	1.2190-1.2238	**Warning**
	PCB 43 (BZ)		C43	25:47				1.2262		1.2238-1.2285	C43
	PCB 69 (BZ)			25:56	26:00	4		1.2330	**1.2283**	1.2291-1.2370	**Warning**
	PCB 49 (BZ)			26:03	26:08	5		1.2386	1.2346	1.2346-1.2425	True
	PCB 48 (BZ)			26:19	26:24	5		1.2515	**1.2472**	1.2491-1.2539	**Warning**
	PCB 65 (BZ)		C44	26:32	26:38	6		1.2616	1.2583	1.2576-1.2655	True
	PCB 47 (BZ)		C44	26:34				1.2634		1.2594-1.2674	C44
	PCB 44 (BZ)		C44	26:36				1.2647		1.2608-1.2687	C44
	PCB 62 (BZ)		C59	26:48	26:54	6		1.2745	1.2709	1.2705-1.2785	True
	PCB 75 (BZ)		C59	26:52				1.2779		1.2740-1.2819	C59
	PCB 59 (BZ)		C59	26:55				1.2795		1.2756-1.2835	C59
	PCB 42 (BZ)			27:07	27:13	6		1.2893	**1.2858**	1.2869-1.2917	**Warning**
	PCB 41 (BZ)			27:32	27:38	6		1.3088	1.3055	1.3049-1.3128	True
	PCB 71 (BZ)		C40	27:37	27:44	7		1.3133	1.3102	1.3094-1.3173	True
	PCB 40 (BZ)		C40	27:40				1.3157		1.3117-1.3197	C40
	PCB 64 (BZ)			27:49	27:55	6		1.3228	**1.3189**	1.3204-1.3252	**Warning**
	PCB 72 (BZ)			28:37	28:39	2		0.8292	**0.8276**	0.8278-0.8307	**Warning**
	PCB 68 (BZ)			28:52	28:56	4		0.8368	0.8358	0.8353-0.8382	True
	PCB 57 (BZ)			29:19	29:23	4		0.8500	0.8488	0.8485-0.8514	True
	PCB 58 (BZ)			29:35	29:40	5		0.8576	0.8570	0.8561-0.8590	True
	PCB 67 (BZ)			29:42	29:47	5		0.8611	0.8604	0.8597-0.8626	True
	PCB 63 (BZ)			30:00	30:03	3		0.8693	0.8681	0.8679-0.8708	True
	PCB 61 (BZ)			30:13	30:18	5		0.8758	0.8753	0.8729-0.8786	True
	PCB 70 (BZ)		C70	30:21	30:27	6		0.8795	0.8796	0.8766-0.8824	True
	PCB 76 (BZ)		C70	30:21				0.8798		0.8769-0.8827	C70
	PCB 74 (BZ)		C70	30:23				0.8807		0.8783-0.8832	C70
	PCB 66 (BZ)			30:41	30:46	5		0.8896	0.8888	0.8881-0.8910	True
	PCB 55 (BZ)			30:53	30:59	6		0.8951	0.8950	0.8936-0.8965	True
	PCB 56 (BZ)			31:24	31:31	7		0.9100	0.9104	0.9086-0.9115	True
	PCB 60 (BZ)			31:36	31:42	6		0.9160	0.9157	0.9146-0.9174	True
	PCB 80 (BZ)			31:52	31:56	4		0.9239	0.9225	0.9224-0.9253	True
	PCB 79 (BZ)			33:30	33:34	4		0.9709	0.9697	0.9694-0.9723	True
	PCB 78 (BZ)			34:05	34:09	4		0.9876	0.9865	0.9862-0.9891	True
	PCB 81 (BZ)	T		34:32	34:38	6		1.0008	1.0005	0.9994-1.0023	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 186 False: 0 Warning: 25

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 77 (BZ)	T		35:07	35:14	7		1.0004	1.0005	0.9990-1.0018	True
I	13C12-PCB 104			26:28	26:33	5	15	0.8182	0.8190	0.8131-0.8234	True
S	13C12-PCB 95			29:30	29:36	6		1.1143	1.1149	1.1111-1.1174	True
R	13C12-PCB 101			32:21	32:25	4		1.0000	1.0000	0.9936-1.0064	True
C	13C12-PCB 111			34:59	35:01	2		1.0813	1.0802	1.0761-1.0864	True
I	13C12-PCB 123			37:01	37:04	3	15	1.1438	1.1434	1.1386-1.1489	True
I	13C12-PCB 118			37:20	37:23	3	15	1.1537	1.1532	1.1486-1.1589	True
I	13C12-PCB 114			37:52	37:55	3	15	1.1705	1.1697	1.1653-1.1756	True
I	13C12-PCB 105			38:35	38:40	5	15	1.1923	1.1928	1.1871-1.1974	True
R	13C12-PCB 127			39:58	40:00	2		1.0000	1.0000	0.9948-1.0052	True
I	13C12-PCB 126			41:38	41:42	4	15	1.2868	1.2864	1.2817-1.2920	True
	PCB 104 (BZ)	L		26:30	26:34	4		1.0007	1.0006	0.9975-1.0038	True
	PCB 96 (BZ)			26:59	27:05	6		1.0189	1.0201	1.0158-1.0221	True
	PCB 103 (BZ)			28:47	28:48	1		1.0869	**1.0847**	1.0850-1.0888	**Warning**
	PCB 94 (BZ)			29:03	29:07	4		1.0974	1.0967	1.0955-1.0993	True
	PCB 95 (BZ)		C95	29:33	29:38	5		1.1158	1.1161	1.1127-1.1190	True
	PCB 100 (BZ)		C95	29:37				1.1186		1.1154-1.1217	C95
	PCB 93 (BZ)			29:42	29:48	6		1.1221	1.1224	1.1190-1.1253	True
	PCB 102 (BZ)		C98	29:50	29:55	5		1.1268	1.1268	1.1236-1.1299	True
	PCB 98 (BZ)		C98	29:54				1.1295		1.1263-1.1326	C98
	PCB 88 (BZ)			30:15	30:19	4		1.1427	1.1419	1.1389-1.1465	True
	PCB 91 (BZ)			30:22	30:26	4		1.1471	1.1463	1.1440-1.1503	True
	PCB 84 (BZ)			30:39	30:45	6		1.1576	1.1582	1.1557-1.1595	True
	PCB 89 (BZ)			31:07	31:13	6		1.1756	1.1758	1.1737-1.1775	True
	PCB 121 (BZ)			31:21	31:21	0		1.1840	**1.1808**	1.1821-1.1859	**Warning**
	PCB 92 (BZ)			31:49	31:51	2		0.8598	0.8593	0.8584-0.8611	True
	PCB 113 (BZ)		C90	32:21	32:25	4		1.2218	1.2210	1.2186-1.2249	True
	PCB 90 (BZ)		C90	32:22				1.2224		1.2193-1.2256	C90
	PCB 101 (BZ)		C90	32:22				1.2226		1.2195-1.2258	C90
	PCB 83 (BZ)		C83	32:55	32:58	3		1.2432	1.2417	1.2394-1.2470	True
	PCB 99 (BZ)		C83	32:57				1.2444		1.2413-1.2476	C83
	PCB 112 (BZ)			33:05	33:09	4		1.2497	1.2486	1.2478-1.2516	True
	PCB 109 (BZ)/108 (IUPAC)		C86	33:25	33:28	3		1.2621	1.2605	1.2570-1.2671	True
	PCB 86 (BZ)		C86	33:29				1.2648		1.2598-1.2698	C86
	PCB 119 (BZ)		C86	33:27				1.2633		1.2583-1.2684	C86
	PCB 97 (BZ)		C86	33:30				1.2656		1.2606-1.2707	C86
	PCB 125 (BZ)		C86	33:36				1.2688		1.2637-1.2738	C86
	PCB 87 (BZ)		C86	33:39				1.2711		1.2679-1.2742	C86
	PCB 117 (BZ)		C85	34:06	34:09	3		1.2881	1.2863	1.2843-1.2919	True
	PCB 116 (BZ)		C85	34:10				1.2904		1.2866-1.2942	C85
	PCB 85 (BZ)		C85	34:15				1.2940		1.2908-1.2971	C85
	PCB 110 (BZ)		C110	34:25	34:29	4		1.3000	1.2988	1.2969-1.3032	True
	PCB 115 (BZ)		C110	34:25				1.2998		1.2967-1.3030	C110
	PCB 82 (BZ)			34:47	34:53	6		1.3141	1.3139	1.3122-1.3160	True
	PCB 111 (BZ)			35:01	35:02	1		1.3225	**1.3195**	1.3206-1.3244	**Warning**
	PCB 120 (BZ)			35:29	35:29	0		1.3401	**1.3365**	1.3382-1.3420	**Warning**
	PCB 124 (BZ)		C108	36:42				1.3858		1.3827-1.3890	C108
	PCB 108 (BZ)/107 (IUPAC)		C108	36:41	36:43	2		1.3854	1.3829	1.3823-1.3886	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1
ICAL Date: 03/13/07
CCAL Filename: a071012s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071012s1/a071012s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/12/07 11:04
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 186 False: 0 Warning: 25

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 107 (BZ)/109 (IUPAC)			36:55	36:57	2		1.3942	**1.3917**	1.3923-1.3961	**Warning**
	PCB 123 (BZ)	T		37:01	37:05	4		1.0004	1.0004	0.9991-1.0018	True
	PCB 106 (BZ)			37:10	37:12	2		1.0042	1.0036	1.0028-1.0055	True
	PCB 118 (BZ)	T		37:22	37:24	2		1.0007	1.0004	0.9994-1.0021	True
	PCB 122 (BZ)			37:46	37:49	3		1.0117	1.0116	1.0104-1.0131	True
	PCB 114 (BZ)	T		37:54	37:57	3		1.0006	1.0009	0.9993-1.0019	True
	PCB 105 (BZ)	T		38:37	38:41	4		1.0010	1.0004	0.9997-1.0023	True
	PCB 127 (BZ)			40:00	40:01	1		1.0367	**1.0349**	1.0354-1.0380	**Warning**
	PCB 126 (BZ)	T		41:39	41:44	5		1.0005	1.0008	0.9993-1.0017	True
I	13C12-PCB 155			32:02	32:01	-1	15	0.7919	0.7912	0.7878-0.7960	True
S	13C12-PCB 153			39:08	39:08	0		0.9018	0.9013	0.8999-0.9037	True
R	13C12-PCB 138			40:27	40:28	1		1.0000	1.0000	0.9794-1.0206	True
I	13C12-PCB 167			43:24	43:25	1	15	1.0729	1.0729	1.0687-1.0770	True
I	13C12-PCB 156			44:34	44:42	8	15	1.1018	~~1.1046~~ 1.1017	1.1006-1.1031	~~Warning~~ TRUE DB 10-12-07
I	13C12-PCB 157			44:39			15	1.1037		1.1025-1.1049	
I	13C12-PCB 169			47:50	47:51	1	15	1.1822	1.1825	1.1809-1.1834	True
	PCB 155 (BZ)	L		32:03	32:04	1		1.0006	1.0016	0.9980-1.0032	True x2
	PCB 152 (BZ)			32:25	32:28	3		1.0121	**1.0141**	1.0105-1.0136	**Warning**
	PCB 150 (BZ)			32:31	32:34	3		1.0154	**1.0172**	1.0138-1.0169	**Warning**
	PCB 136 (BZ)			33:00	33:05	5		1.0303	**1.0333**	1.0287-1.0318	**Warning**
	PCB 145 (BZ)			33:13	33:16	3		1.0369	**1.0390**	1.0353-1.0384	**Warning**
	PCB 148 (BZ)			34:38	34:38	0		1.0812	1.0817	1.0797-1.0828	True
	PCB 151 (BZ)		C135	35:17				1.1017		1.0991-1.1043	C135
	PCB 135 (BZ)		C135	35:22	35:26	4		1.1041	1.1067	1.1015-1.1067	True
	PCB 154 (BZ)		C135	35:27				1.1066		1.1040-1.1092	C135
	PCB 144 (BZ)			35:51	35:53	2		1.1192	1.1208	1.1177-1.1208	True
	PCB 147 (BZ)		C147	36:12	36:15	3		1.1298	1.1322	1.1272-1.1324	True
	PCB 149 (BZ)		C147	36:14				1.1310		1.1284-1.1336	C147
	PCB 134 (BZ)		C134	36:27				1.1379		1.1353-1.1405	C134
	PCB 143 (BZ)		C134	36:34	36:35	1		1.1412	1.1426	1.1386-1.1438	True
	PCB 139 (BZ)		C139	36:46	36:49	3		1.1477	1.1499	1.1451-1.1503	True
	PCB 140 (BZ)		C139	36:49				1.1490		1.1464-1.1516	C139
	PCB 131 (BZ)			37:02	37:06	4		1.1563	**1.1588**	1.1548-1.1579	**Warning**
	PCB 142 (BZ)			37:12	37:14	2		1.1610	**1.1629**	1.1594-1.1626	**Warning**
	PCB 132 (BZ)			37:34	37:37	3		1.1725	1.1749	1.1698-1.1751	True
	PCB 133 (BZ)			37:56	37:56	0		1.1841	1.1848	1.1825-1.1856	True
	PCB 165 (BZ)			38:19	38:20	1		0.8827	0.8829	0.8815-0.8838	True
	PCB 146 (BZ)			38:33	38:33	0		0.8883	0.8879	0.8871-0.8895	True
	PCB 161 (BZ)			38:42	38:41	-1		0.8915	0.8910	0.8903-0.8927	True
	PCB 153 (BZ)		C153	39:11	39:11	0		0.9028	0.9025	0.9008-0.9047	True
	PCB 168 (BZ)		C153	39:13				0.9035		0.9016-0.9054	C153
	PCB 141 (BZ)			39:25	39:27	2		0.9081	0.9086	0.9070-0.9093	True
	PCB 130 (BZ)			39:51	39:53	2		0.9182	0.9186	0.9171-0.9194	True
	PCB 137 (BZ)			40:02	40:03	1		0.9225	0.9225	0.9213-0.9236	True
	PCB 164 (BZ)			40:11	40:14	3		0.9258	0.9267	0.9246-0.9269	True
	PCB 138 (BZ)		C129	40:29	40:31	2		0.9327	0.9332	0.9300-0.9354	True
	PCB 163 (BZ)		C129	40:29				0.9326		0.9299-0.9353	C129
	PCB 129 (BZ)		C129	40:35				0.9351		0.9325-0.9378	C129

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1 **ICAL Date:** 03/13/07

CCAL Filename: a071012s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071012s1/a071012s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/12/07 11:04 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 186 False: 0 Warning: 25

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?	
	PCB 160 (BZ)		C129	40:38				0.9362		0.9342-0.9381	C129	
	PCB 158 (BZ)			40:50	40:52	2		0.9409	0.9413	0.9397-0.9421	True	
	PCB 166 (BZ)			41:41	41:42	1		0.9605	0.9605	0.9586-0.9624	True	
	PCB 128 (BZ)			41:48	41:52	4		0.9632	0.9643	0.9612-0.9651	True	
	PCB 159 (BZ)			42:40	42:39	-1		0.9830	0.9823	0.9819-0.9842	True	
	PCB 162 (BZ)			42:57	42:57	0		0.9895	0.9893	0.9884-0.9907	True	
	PCB 167 (BZ)	T		43:27	43:26	-1		1.0009	1.0004	0.9998-1.0021	True	
	PCB 156 (BZ)	T	C156	44:37	44:43	6		1.0008	~~1.0004~~	0.9997-1.0019	True	DRS
	PCB 157 (BZ)	T	C156	44:41				1.0025	1.0011	1.0006-1.0043	C156	10-12-07
	PCB 169 (BZ)	T		47:51	47:52	1		1.0003	1.0003	0.9993-1.0014	True	
I	13C12-PCB 188			37:46	37:46	0	15	0.8226	0.8228	0.8190-0.8262	True	
C	13C12-PCB 178			40:51	40:51	0		0.8896	0.8900	0.8859-0.8932	True	
R	13C12-PCB 180			45:55	45:54	-1		1.0000	1.0000	0.9819-1.0181	True	
I	13C12-PCB 170			47:15	47:15	0	15	1.0288	1.0294	1.0252-1.0324	True	
I	13C12-PCB 189			50:18	50:17	-1	15	1.0954	1.0955	1.0918-1.0991	True	
	PCB 188 (BZ)	L		37:47	37:47	0		1.0004	1.0004	0.9991-1.0017	True	
	PCB 179 (BZ)			38:15	38:16	1		1.0127	1.0132	1.0114-1.0141	True	
	PCB 184 (BZ)			38:39	38:38	-1		1.0232	1.0229	1.0219-1.0245	True	
	PCB 176 (BZ)			39:07	39:07	0		1.0355	1.0357	1.0342-1.0368	True	
	PCB 186 (BZ)			39:34	39:37	3		1.0476	**1.0490**	1.0463-1.0489	**Warning**	
	PCB 178 (BZ)			40:53	40:52	-1		1.0824	1.0821	1.0811-1.0838	True	
	PCB 175 (BZ)			41:30	41:29	-1		1.0988	1.0984	1.0974-1.1001	True	
	PCB 187 (BZ)			41:46	41:44	-2		1.1058	1.1050	1.1045-1.1071	True	
	PCB 182 (BZ)			41:57	41:55	-2		1.1105	1.1099	1.1092-1.1118	True	
	PCB 183 (BZ)			42:22	42:20	-2		1.1217	1.1209	1.1204-1.1230	True	
	PCB 185 (BZ)			42:31	42:31	0		1.1255	1.1258	1.1242-1.1268	True	
	PCB 174 (BZ)			42:41	42:43	2		1.1301	1.1311	1.1288-1.1314	True	
	PCB 177 (BZ)			43:08	43:08	0		1.1418	1.1421	1.1405-1.1432	True	
	PCB 181 (BZ)			43:28	43:27	-1		1.1507	1.1505	1.1493-1.1520	True	
	PCB 171 (BZ)		C171	43:45				1.1580		1.1558-1.1602	C171	
	PCB 173 (BZ)		C171	43:44	43:44	0		1.1576	1.1580	1.1563-1.1589	True	
	PCB 172 (BZ)			45:19	45:17	-2		0.9007	0.9006	0.8997-0.9017	True	
	PCB 192 (BZ)			45:34	45:33	-1		0.9057	0.9059	0.9047-0.9067	True	
	PCB 193 (BZ)		C180	45:53	45:54	1		0.9123	0.9128	0.9113-0.9133	True	
	PCB 180 (BZ)		C180	45:56				0.9131		0.9121-0.9141	C180	
	PCB 191 (BZ)			46:19	46:16	-3		0.9206	0.9201	0.9196-0.9216	True	
	PCB 170 (BZ)			47:17	47:16	-1		0.9400	0.9400	0.9390-0.9410	True	
	PCB 190 (BZ)			47:46	47:45	-1		0.9498	0.9496	0.9488-0.9507	True	
	PCB 189 (BZ)	T		50:20	50:19	-1		1.0004	1.0007	0.9994-1.0014	True	
I	13C12-PCB 202			43:08	43:07	-1	15	0.8236	0.8239	0.8204-0.8268	True	
R	13C12-PCB 194			52:23	52:20	-3		1.0000	1.0000	0.9960-1.0040	True	
I	13C12-PCB 205			52:50	52:48	-2	15	1.0088	1.0089	1.0040-1.0136	True	
	PCB 202 (BZ)	L		43:09	43:09	0		1.0004	1.0008	0.9984-1.0023	True	
	PCB 200 (BZ)/201 (IUPAC)			44:05	44:02	-3		1.0219	1.0213	1.0199-1.0238	True	
	PCB 204 (BZ)			44:43	44:40	-3		1.0367	1.0359	1.0355-1.0378	True	
	PCB 197 (BZ)			44:57	44:55	-2		1.0421	1.0417	1.0409-1.0432	True	
	PCB 199 (BZ)/200 (IUPAC)			45:09	45:08	-1		1.0468	1.0468	1.0457-1.0480	True	
	PCB 198 (BZ)		C198	47:50	47:50	0		1.1088	1.1094	1.1068-1.1107	True	

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23195 - A071012S1
ICAL Date: 03/13/07
CCAL Filename: a071012s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071012s1/a071012s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/12/07 11:04
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 186 False: 0 Warning: 25

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 201 (BZ)/199 (IUPAC)		C198	47:54				1.1103		1.1092-1.1115	C198
	PCB 196 (BZ)			48:33	48:29	-4		0.9188	0.9182	0.9179-0.9198	True
	PCB 203 (BZ)			48:43	48:41	-2		0.9221	0.9220	0.9211-0.9230	True
	PCB 195 (BZ)			50:04	50:05	1		0.9485	0.9485	0.9483-0.9501	True
	PCB 194 (BZ)			52:24	52:21	-3		0.9919	0.9915	0.9909-0.9928	True
	PCB 205 (BZ)	L		52:52	52:49	-3		1.0004	1.0003	0.9995-1.0013	True
I	13C12-PCB 208			49:46	49:42	-4	15	0.9501	0.9497	0.9469-0.9533	True
I	13C12-PCB 206			54:33	54:28	-5	15	1.0414	1.0408	1.0366-1.0462	True
	PCB 208 (BZ)	L		49:47	49:43	-4		1.0004	1.0003	0.9994-1.0014	True
	PCB 207 (BZ)			50:43	50:38	-5		1.0190	1.0188	1.0180-1.0200	True
	PCB 206 (BZ)	L		54:34	54:30	-4		1.0003	1.0006	0.9994-1.0013	True
I	13C12-PCB 209			56:08	56:02	-6	15	1.0716	1.0707	1.0668-1.0763	True
	PCB 209 (BZ)	L		56:09	56:03	-6		1.0004	1.0003	0.9995-1.0013	True

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.d	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
Total Monochlorobiphenyl		4901843	1684586			121.832676		121.832676		0.0716
13C12-PCB 1	12:18	3209928	1233671	1.318	100.0	96.815908	96.82	96.815908		0.0416
13C12-PCB 3	14:32	3100711	968767	1.325	100.0	92.970725	92.97	92.970725		0.0414
PCB 1 (BZ)	12:19	1742645	689773	1.253	50.00	43.332030	86.66	43.332030		0.0215
PCB 2 (BZ)	14:21	1524435	498736	1.226	50.00	39.395768	78.79	39.395768		0.0246
PCB 3 (BZ)	14:33	1634763	496077	1.348	50.00	39.104879	78.21	39.104879		0.0255
Total Dichlorobiphenyl		16021874	3538211			551.368006		551.368006		1.27
13C12-PCB 4	14:49	1600044	474638	0.615	100.0	103.420222	103.42	103.420222		0.0850
13C12-PCB 9	16:46	2516166	688703	1.000	100.0	100.000000	100.00	100.000000		0.0523
13C12-PCB 8	17:39	1273154	316924	1.332	50.00	46.487210	92.97	46.487210	E	0.0525
13C12-PCB 15	20:49	2511098	555028	1.065	100.0	93.726294	93.73	93.726294		0.0491
PCB 4 (BZ)	14:50	901702	280180	1.212	50.00	46.514238	93.03	46.514238		0.144
PCB 10 (BZ)	14:59	1342306	408871	1.326	50.00	49.261508	98.52	49.261508		0.122
PCB 9 (BZ)	16:47	1397089	411037	1.445	50.00	47.026675	94.05	47.026675		0.112
PCB 7 (BZ)	16:56	1409319	367369	1.432	50.00	47.887990	95.78	47.887990		0.113
PCB 6 (BZ)	17:14	1370796	366397	1.450	50.00	45.987290	91.97	45.987290		0.111
PCB 5 (BZ)	17:33	1204389	337138	1.356	50.00	43.213229	86.43	43.213229		0.119
PCB 8 (BZ)	17:41	1489051	371839	1.477	50.00	49.050362	98.10	49.050362		0.109
PCB 14 (BZ)	19:15	1567905	381797	1.687	50.00	45.201962	90.40	45.201962		0.0955
PCB 11 (BZ)	20:10	1319485	295473	1.448	50.00	44.339907	88.68	44.339907		0.111
PCB 13 (BZ)	20:30	2619480	491511	1.454	100.0	87.647104	87.65	87.647104	C12	0.111
PCB 12 (BZ)		2619480		1.454	100.0	87.647104	87.65	87.647104	C	0.111
PCB 15 (BZ)	20:50	1400352	318110	1.233	50.00	45.237740	90.48	45.237740		0.121
Total Trichlorobiphenyl		28976922	5287482			1120.79768		1120.79768		2.08
13C12-PCB 19	18:01	1139089	307670	0.558	100.0	109.348547	109.35	109.348547		0.260
13C12-PCB 32	21:15	1865703	461237	1.000	100.0	100.000000	100.00	100.000000		0.145
13C12-PCB 31	23:30	2749959	621149	1.000	100.0	100.000000	100.00	100.000000		0.108
13C12-PCB 28	23:47	1386037	299009	0.968	50.00	52.075893	104.15	52.075893	E	0.111
13C12-PCB 37	27:54	2397123	480187	0.885	100.0	98.468414	98.47	98.468414		0.122
PCB 19 (BZ)	18:02	688975	193475	1.178	50.00	51.359081	102.72	51.359081		0.147
PCB 30 (BZ)	19:42	991888	251176	1.874	50.00	46.456392	92.91	46.456392		0.0923
PCB 18 (BZ)	19:52	698563	174308	1.262	50.00	48.588662	97.18	48.588662		0.137
PCB 17 (BZ)	20:16	732781	179071	1.326	50.00	48.516303	97.03	48.516303		0.131
PCB 27 (BZ)	20:31	1003927	270228	1.945	50.00	45.310311	90.62	45.310311		0.0890
PCB 24 (BZ)	20:38	1013969	231671	1.782	50.00	49.953086	99.91	49.953086		0.0971
PCB 16 (BZ)	20:49	638266	147605	1.157	50.00	48.415537	96.83	48.415537		0.150
PCB 32 (BZ)	21:16	1106297	269760	1.966	50.00	49.389611	98.78	49.389611		0.0880
PCB 34 (BZ)	22:29	1306845	309062	1.216	50.00	44.834720	89.67	44.834720		0.0912
PCB 23 (BZ)	22:37	1409884	319618	1.208	50.00	48.696342	97.39	48.696342		0.0918
PCB 29 (BZ)	22:58	2802106	551995	1.265	100.0	92.426271	92.43	92.426271	C26	0.0877
PCB 26 (BZ)		2802106		1.265	100.0	92.426271	92.43	92.426271	C	0.0877
PCB 25 (BZ)	23:12	1526068	313012	1.362	50.00	46.757524	93.52	46.757524		0.0814
PCB 31 (BZ)	23:31	1421987	328706	1.285	50.00	46.148197	92.30	46.148197		0.0863
PCB 28 (BZ)	23:48	2680095	324700	1.238	100.0	90.287795	90.29	90.287795	C20	0.0896
PCB 20 (BZ)		2680095		1.238	100.0	90.287795	90.29	90.287795	C	0.0896
PCB 21 (BZ)		3019694		1.276	100.0	98.754021	98.75	98.754021	C	0.0869
PCB 33 (BZ)	24:06	3019694	338552	1.276	100.0	98.754021	98.75	98.754021	C21	0.0869
PCB 22 (BZ)	24:32	1310769	285275	1.218	50.00	44.887481	89.77	44.887481		0.0910
PCB 36 (BZ)	25:59	1397299	283773	1.286	50.00	45.334970	90.67	45.334970		0.0862

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.d	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 39 (BZ)	26:23	1379760	293294	1.330	50.00	43.275573	86.55	43.275573		0.0834
PCB 38 (BZ)	26:57	1273938	263430	1.246	50.00	42.651220	85.30	42.651220		0.0890
PCB 35 (BZ)	27:29	1280951	244495	1.195	50.00	44.704396	89.41	44.704396		0.0928
PCB 37 (BZ)	27:55	1292860	266271	1.224	50.00	44.050188	88.10	44.050188		0.0906
Total Tetrachlorobiphenyl		41262165	6200316			2097.64871		2097.64871		5.26
13C12-PCB 54	21:10	1062411	272026	0.598	100.0	95.292407	95.29	95.292407		0.0998
13C12-PCB 52	25:38	1492206	335579	1.000	100.0	100.000000	100.00	100.000000		0.0819
13C12-PCB 79	33:32	929089	174366	1.089	50.00	48.141476	96.28	48.141476	E	0.0758
13C12-PCB 81	34:37	1769202	333413	1.286	100.0	92.165312	92.17	92.165312		0.0637
13C12-PCB 77	35:13	1776535	333399	1.297	100.0	91.778961	91.78	91.778961		0.0632
PCB 54 (BZ)	21:11	668200	163852	1.211	50.00	51.933053	103.87	51.933053		0.181
PCB 50 (BZ)	23:14	1754438	218064	0.927	100.0	106.774491	106.77	106.774491	C	0.193
PCB 53 (BZ)		1754438		0.927	100.0	106.774491	106.77	106.774491	C50	0.193
PCB 45 (BZ)	24:01	1679364	353679	0.857	100.0	110.505820	110.51	110.505820	C	0.209
PCB 51 (BZ)		1679364		0.857	100.0	110.505820	110.51	110.505820	C45	0.209
PCB 46 (BZ)	24:21	682258	148500	0.706	50.00	54.483455	108.97	54.483455		0.254
PCB 52 (BZ)	25:39	796169	194600	0.926	50.00	48.500691	97.00	48.500691		0.194
PCB 73 (BZ)	25:47	1789360	252715	0.957	100.0	105.426143	105.43	105.426143	C43	0.187
PCB 43 (BZ)		1789360		0.957	100.0	105.426143	105.43	105.426143	C	0.187
PCB 69 (BZ)	26:00	1027951	238892	1.180	50.00	49.118197	98.24	49.118197		0.152
PCB 49 (BZ)	26:08	945959	195604	1.005	50.00	53.074471	106.15	53.074471		0.178
PCB 48 (BZ)	26:24	772233	170870	0.886	50.00	49.165077	98.33	49.165077		0.202
PCB 65 (BZ)	26:38	2721539	387466	1.024	150.0	149.951189	99.97	149.951189	C44	0.175
PCB 47 (BZ)		2721539		1.024	150.0	149.951189	99.97	149.951189	C44	0.175
PCB 44 (BZ)		2721539		1.024	150.0	149.951189	99.97	149.951189	C	0.175
PCB 62 (BZ)	26:54	3453727	407931	1.297	150.0	150.255120	100.17	150.255120	C59	0.138
PCB 75 (BZ)		3453727		1.297	150.0	150.255120	100.17	150.255120	C59	0.138
PCB 59 (BZ)		3453727		1.297	150.0	150.255120	100.17	150.255120	C	0.138
PCB 42 (BZ)	27:13	798375	171745	0.860	50.00	52.389165	104.78	52.389165		0.208
PCB 41 (BZ)	27:38	590171	141323	0.723	50.00	46.019875	92.04	46.019875		0.248
PCB 71 (BZ)	27:44	1788559	263102	0.953	100.0	105.832489	105.83	105.832489	C40	0.188
PCB 40 (BZ)		1788559		0.953	100.0	105.832489	105.83	105.832489	C	0.188
PCB 64 (BZ)	27:55	1257976	269971	1.313	50.00	54.041995	108.08	54.041995		0.136
PCB 72 (BZ)	28:39	1090134	245508	1.257	50.00	48.914038	97.83	48.914038		0.143
PCB 68 (BZ)	28:56	1162079	252800	1.327	50.00	49.390203	98.78	49.390203		0.135
PCB 57 (BZ)	29:23	1017361	215976	1.194	50.00	48.060220	96.12	48.060220		0.150
PCB 58 (BZ)	29:40	1040634	226939	1.260	50.00	46.598306	93.20	46.598306		0.142
PCB 67 (BZ)	29:47	1141551	227917	1.286	50.00	50.054935	100.11	50.054935		0.139
PCB 63 (BZ)	30:03	1128025	228314	1.339	50.00	47.529710	95.06	47.529710		0.134
PCB 61 (BZ)	30:18	937016	202731	1.190	50.00	44.409152	88.82	44.409152		0.151
PCB 70 (BZ)	30:27	3507340	677297	1.317	150.0	150.206934	100.14	150.206934	C	0.136
PCB 76 (BZ)		3507340		1.317	150.0	150.206934	100.14	150.206934	C70	0.136
PCB 74 (BZ)		3507340		1.317	150.0	150.206934	100.14	150.206934	C70	0.136
PCB 66 (BZ)	30:46	1049431	218471	1.289	50.00	45.913556	91.83	45.913556		0.139
PCB 55 (BZ)	30:59	972305	199335	1.161	50.00	47.257670	94.52	47.257670		0.154
PCB 56 (BZ)	31:31	1001535	209797	1.231	50.00	45.896575	91.79	45.896575		0.146
PCB 60 (BZ)	31:42	1024573	201899	1.191	50.00	48.525301	97.05	48.525301		0.150
PCB 80 (BZ)	31:56	1254170	244865	1.416	50.00	49.957197	99.91	49.957197		0.127
PCB 79 (BZ)	33:34	1142953	221407	1.371	50.00	47.032721	94.07	47.032721		0.131

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Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 78 (BZ)	34:09	990096	183662	1.181	50.00	47.277313	94.55	47.277313		0.152
PCB 81 (BZ)	34:38	1066449	205624	1.317	50.00	45.753503	91.51	45.753503		0.136
PCB 77 (BZ)	35:14	1010234	188738	1.200	50.00	47.400152	94.80	47.400152		0.149
Total Pentachlorobiphenyl		37225276	4706703			2103.57533		2103.57533		5.33
13C12-PCB 104	26:33	1752748	390510	1.260	100.0	109.083750	109.08	109.083750		0.0949
13C12-PCB 95	29:36	593503	132342	0.741	50.00	45.714849	91.43	45.714849	E	0.107
13C12-PCB 101	32:25	1275481	259273	1.000	100.0	100.000000	100.00	100.000000		0.120
13C12-PCB 111	35:01	787782	158155	1.229	50.00	50.254753	100.51	50.254753	E	0.0973
13C12-PCB 123	37:04	1988062	407794	0.955	100.0	103.281551	103.28	103.281551		0.0812
13C12-PCB 118	37:23	2144331	417679	0.988	100.0	107.622600	107.62	107.622600		0.0785
13C12-PCB 114	37:55	1967951	376068	0.971	100.0	100.526431	100.53	100.526431		0.0799
13C12-PCB 105	38:40	1936325	383318	0.941	100.0	102.019407	102.02	102.019407		0.0824
13C12-PCB 127	40:00	2016621	399737	1.000	100.0	100.000000	100.00	100.000000		0.0776
13C12-PCB 126	41:42	2086887	393218	0.978	100.0	105.831013	105.83	105.831013		0.0793
PCB 104 (BZ)	26:34	943279	214714	1.149	50.00	46.818469	93.64	46.818469		0.135
PCB 96 (BZ)	27:05	831194	174804	1.014	50.00	46.789491	93.58	46.789491		0.153
PCB 103 (BZ)	28:48	687327	143296	0.866	50.00	45.262548	90.53	45.262548		0.180
PCB 94 (BZ)	29:07	582702	119934	0.703	50.00	47.303813	94.61	47.303813		0.221
PCB 95 (BZ)	29:38	1405145	260516	0.859	100.0	93.357395	93.36	93.357395	C	0.181
PCB 100 (BZ)		1405145		0.859	100.0	93.357395	93.36	93.357395	C95	0.181
PCB 93 (BZ)	29:48	613569	124626	0.701	50.00	49.906862	99.81	49.906862		0.222
PCB 102 (BZ)	29:55	1329057	181461	0.822	100.0	92.218948	92.22	92.218948	C98	0.189
PCB 98 (BZ)		1329057		0.822	100.0	92.218948	92.22	92.218948	C	0.189
PCB 88 (BZ)	30:19	555018	118834	0.723	50.00	43.802172	87.60	43.802172		0.215
PCB 91 (BZ)	30:26	703102	152427	0.864	50.00	46.440560	92.88	46.440560		0.180
PCB 84 (BZ)	30:45	522805	112425	0.679	50.00	43.905431	87.81	43.905431		0.229
PCB 89 (BZ)	31:13	563727	120124	0.717	50.00	44.840197	89.68	44.840197		0.217
PCB 121 (BZ)	31:21	893099	186293	1.105	50.00	46.110516	92.22	46.110516		0.141
PCB 92 (BZ)	31:51	624959	127765	0.772	50.00	46.165548	92.33	46.165548		0.201
PCB 113 (BZ)	32:25	2357352	438684	0.990	150.0	135.903546	90.60	135.903546	C90	0.157
PCB 90 (BZ)		2357352		0.990	150.0	135.903546	90.60	135.903546	C	0.157
PCB 101 (BZ)		2357352		0.990	150.0	135.903546	90.60	135.903546	C90	0.157
PCB 83 (BZ)	32:58	1241053	252679	0.777	100.0	91.168341	91.17	91.168341	C	0.200
PCB 99 (BZ)		1241053		0.777	100.0	91.168341	91.17	91.168341	C83	0.200
PCB 112 (BZ)	33:09	864202	175630	1.079	50.00	45.697399	91.39	45.697399		0.144
PCB 109 (BZ)/108 (IUPAC)	33:28	4621973	376671	0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 86 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C	0.161
PCB 119 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 97 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 125 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 87 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 117 (BZ)	34:09	2249856	192758	0.979	150.0	131.097179	87.40	131.097179	C85	0.159
PCB 116 (BZ)		2249856		0.979	150.0	131.097179	87.40	131.097179	C85	0.159
PCB 85 (BZ)		2249856		0.979	150.0	131.097179	87.40	131.097179	C	0.159
PCB 110 (BZ)	34:29	1829255	344980	1.139	100.0	91.649995	91.65	91.649995	C	0.137
PCB 115 (BZ)		1829255		1.139	100.0	91.649995	91.65	91.649995	C110	0.137
PCB 82 (BZ)	34:53	462292	101688	0.605	50.00	43.621920	87.24	43.621920		0.257
PCB 111 (BZ)	35:02	895372	178501	1.129	50.00	45.257181	90.51	45.257181		0.138
PCB 120 (BZ)	35:29	920302	190576	1.192	50.00	44.043078	88.09	44.043078		0.130

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Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 124 (BZ)		2084212		1.123	100.0	91.624446	91.62	91.624446	C108	0.137
PCB 108 (BZ)/107 (IUPAC)	36:43	2084212	414436	1.123	100.0	91.624446	91.62	91.624446	C	0.137
PCB 107 (BZ)/109 (IUPAC)	36:57	1015382	202860	1.074	50.00	46.689103	93.38	46.689103		0.143
PCB 123 (BZ)	37:05	1072334	217561	1.136	50.00	47.480495	94.96	47.480495		0.131
PCB 106 (BZ)	37:12	971158	197310	1.046	50.00	45.853391	91.71	45.853391		0.147
PCB 118 (BZ)	37:24	1103851	215444	1.094	50.00	47.067107	94.13	47.067107		0.133
PCB 122 (BZ)	37:49	960831	195293	1.047	50.00	45.305393	90.61	45.305393		0.147
PCB 114 (BZ)	37:57	1126849	217984	1.196	50.00	47.871959	95.74	47.871959		0.135
PCB 105 (BZ)	38:41	1069572	206198	1.218	50.00	45.346037	90.69	45.346037		0.130
PCB 127 (BZ)	40:01	1058098	207391	1.130	50.00	46.226784	92.45	46.226784		0.136
PCB 126 (BZ)	41:44	1066349	199529	1.111	50.00	45.991632	91.98	45.991632		0.139
Total Hexachlorobiphenyl		33949832	5413172			2021.83225		2021.83225		8.52
13C12-PCB 155	32:01	1659204	354086	1.178	100.0	110.436571	110.44	110.436571		0.0892
13C12-PCB 153	39:08	742748	150669	0.833	50.00	47.914371	95.83	47.914371	E	0.119
13C12-PCB 138	40:28	1505259	297276	1.000	100.0	100.000000	100.00	100.000000		0.0917
13C12-PCB 167	43:25	1908006	367706	1.237	100.0	102.500343	102.50	102.500343		0.0741
13C12-PCB 156	44:42	3770816	401781	1.229	200.0	203.863500	101.93	203.863500		0.0746
13C12-PCB 157								ND		0.000000
13C12-PCB 169	47:51	1761104	331997	1.188	100.0	98.517218	98.52	98.517218		0.0772
PCB 155 (BZ)	32:04	874719	185993	1.117	50.00	47.194427	94.39	47.194427		0.178
PCB 152 (BZ)	32:28	804534	172515	1.023	50.00	47.385278	94.77	47.385278		0.194
PCB 150 (BZ)	32:34	851250	178390	1.032	50.00	49.699327	99.40	49.699327		0.192
PCB 136 (BZ)	33:05	767689	159747	0.967	50.00	47.869503	95.74	47.869503		0.205
PCB 145 (BZ)	33:16	813101	169920	1.021	50.00	48.020061	96.04	48.020061		0.194
PCB 148 (BZ)	34:38	584166	124684	0.749	50.00	47.006982	94.01	47.006982		0.265
PCB 151 (BZ)		1840395		0.781	150.0	142.113585	94.74	142.113585	C135	0.254
PCB 135 (BZ)	35:26	1840395	215912	0.781	150.0	142.113585	94.74	142.113585	C	0.254
PCB 154 (BZ)		1840395		0.781	150.0	142.113585	94.74	142.113585	C135	0.254
PCB 144 (BZ)	35:53	592441	122589	0.759	50.00	47.065294	94.13	47.065294		0.262
PCB 147 (BZ)	36:15	1602526	260381	0.862	100.0	99.978470	99.98	99.978470	C	0.296
PCB 149 (BZ)		1602526		0.862	100.0	99.978470	99.98	99.978470	C147	0.296
PCB 134 (BZ)		1276666		0.711	100.0	96.478463	96.48	96.478463	C	0.359
PCB 143 (BZ)	36:35	1276666	149262	0.711	100.0	96.478463	96.48	96.478463	C134	0.359
PCB 139 (BZ)	36:49	1563881	230313	0.856	100.0	98.259782	98.26	98.259782	C	0.298
PCB 140 (BZ)		1563881		0.856	100.0	98.259782	98.26	98.259782	C139	0.298
PCB 131 (BZ)	37:06	638269	130042	0.713	50.00	48.095519	96.19	48.095519		0.358
PCB 142 (BZ)	37:14	630530	127742	0.735	50.00	46.124155	92.25	46.124155		0.347
PCB 132 (BZ)	37:37	639430	126889	0.710	50.00	48.406860	96.81	48.406860		0.359
PCB 133 (BZ)	37:56	691816	138561	0.768	50.00	48.407308	96.81	48.407308		0.332
PCB 165 (BZ)	38:20	885015	180368	0.993	50.00	47.926196	95.85	47.926196		0.257
PCB 146 (BZ)	38:33	780979	153543	0.874	50.00	48.058734	96.12	48.058734		0.292
PCB 161 (BZ)	38:41	996669	200828	1.090	50.00	49.176186	98.35	49.176186		0.234
PCB 153 (BZ)	39:11	1955821	319739	1.068	100.0	98.414387	98.41	98.414387	C	0.239
PCB 168 (BZ)		1955821		1.068	100.0	98.414387	98.41	98.414387	C153	0.239
PCB 141 (BZ)	39:27	698422	136139	0.756	50.00	49.684064	99.37	49.684064		0.338
PCB 130 (BZ)	39:53	623334	128026	0.708	50.00	47.304871	94.61	47.304871		0.360
PCB 137 (BZ)	40:03	765039	152852	0.835	50.00	49.254295	98.51	49.254295		0.305
PCB 164 (BZ)	40:14	933255	181249	1.033	50.00	48.564048	97.13	48.564048		0.247
PCB 138 (BZ)	40:31	3322441	355320	0.922	200.0	193.733722	96.87	193.733722	C129	0.277

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Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 163 (BZ)		3322441		0.922	200.0	193.733722	96.87	193.733722	C129	0.277
PCB 129 (BZ)		3322441		0.922	200.0	193.733722	96.87	193.733722	C	0.277
PCB 160 (BZ)		3322441		0.922	200.0	193.733722	96.87	193.733722	C129	0.277
PCB 158 (BZ)	40:52	1075519	217596	1.191	50.00	48.543528	97.09	48.543528		0.214
PCB 166 (BZ)	41:42	997177	197696	1.102	50.00	48.641808	97.28	48.641808		0.231
PCB 128 (BZ)	41:52	696420	128164	0.769	50.00	48.699430	97.40	48.699430		0.332
PCB 159 (BZ)	42:39	969587	184077	1.079	50.00	48.302454	96.60	48.302454		0.236
PCB 162 (BZ)	42:57	964669	193579	1.079	50.00	48.072707	96.15	48.072707		0.236
PCB 167 (BZ)	43:26	1021767	202122	1.150	50.00	46.557138	93.11	46.557138		0.166
PCB 156 (BZ)	44:43	2058303	206396	1.151	100.0	94.879119	94.88	94.879119	C	0.304
PCB 157 (BZ)		2058303		1.151		94.879119		94.879119	C156	0.304
PCB 169 (BZ)	47:52	1034002	192181	1.337	50.00	43.914550	87.83	43.914550		0.158
Total Heptachlorobiphenyl		17958914	3020632			1117.78486		1117.78486		3.89
13C12-PCB 188	37:46	1867934	384513	1.238	100.0	105.484089	105.48	105.484089		0.0709
13C12-PCB 178	40:51	585888	118209	0.863	50.00	47.462603	94.93	47.462603	E	0.102
13C12-PCB 180	45:54	1430230	284947	1.000	100.0	100.000000	100.00	100.000000		0.0877
13C12-PCB 170	47:15	1182507	232932	0.813	100.0	101.637399	101.64	101.637399		0.108
13C12-PCB 189	50:17	1994959	382937	1.620	100.0	100.861553	100.86	100.861553		0.0661
PCB 188 (BZ)	37:47	921336	187222	1.071	50.00	46.069851	92.14	46.069851		0.136
PCB 179 (BZ)	38:16	849403	175377	1.200	50.00	46.414938	92.83	46.414938		0.151
PCB 184 (BZ)	38:38	839347	165334	1.178	50.00	46.704139	93.41	46.704139		0.154
PCB 176 (BZ)	39:07	910502	186786	1.252	50.00	47.682668	95.37	47.682668		0.145
PCB 186 (BZ)	39:37	866638	172071	1.214	50.00	46.791762	93.58	46.791762		0.149
PCB 178 (BZ)	40:52	606586	123705	0.889	50.00	44.719067	89.44	44.719067		0.204
PCB 175 (BZ)	41:29	642723	126893	0.920	50.00	45.798753	91.60	45.798753		0.197
PCB 187 (BZ)	41:44	720882	151942	1.009	50.00	46.850728	93.70	46.850728		0.180
PCB 182 (BZ)	41:55	719351	147078	0.972	50.00	48.527148	97.05	48.527148		0.187
PCB 183 (BZ)	42:20	681875	143769	0.946	50.00	47.250471	94.50	47.250471		0.192
PCB 185 (BZ)	42:31	632453	129553	0.919	50.00	45.125692	90.25	45.125692		0.197
PCB 174 (BZ)	42:43	651506	127833	0.924	50.00	46.226684	92.45	46.226684		0.196
PCB 177 (BZ)	43:08	610606	122623	0.880	50.00	45.518761	91.04	45.518761		0.206
PCB 181 (BZ)	43:27	674284	134205	0.975	50.00	45.354541	90.71	45.354541		0.186
PCB 171 (BZ)		1186908		0.835	100.0	93.192291	93.19	93.192291	C	0.217
PCB 173 (BZ)	43:44	1186908	227461	0.835	100.0	93.192291	93.19	93.192291	C171	0.217
PCB 172 (BZ)	45:17	592074	118900	0.838	50.00	46.312044	92.62	46.312044		0.216
PCB 192 (BZ)	45:33	785774	153047	1.147	50.00	44.904798	89.81	44.904798		0.158
PCB 193 (BZ)	45:54	1629642	258327	1.134	100.0	94.219586	94.22	94.219586	C180	0.160
PCB 180 (BZ)		1629642		1.134	100.0	94.219586	94.22	94.219586	C	0.160
PCB 191 (BZ)	46:16	862801	166546	1.228	50.00	46.075099	92.15	46.075099		0.148
PCB 170 (BZ)	47:16	594301	116356	1.058	50.00	47.520369	95.04	47.520369		0.227
PCB 190 (BZ)	47:45	917679	166713	1.254	50.00	47.997262	95.99	47.997262		0.145
PCB 189 (BZ)	50:19	1062243	204679	1.097	50.00	48.528206	97.06	48.528206		0.133
Total Octachlorobiphenyl		8215832	1549708			566.272215		566.272215		1.16
13C12-PCB 202	43:07	1566705	319457	0.994	100.0	110.227293	110.23	110.227293		0.0574
13C12-PCB 194	52:20	1220593	233271	1.000	100.0	100.000000	100.00	100.000000		0.0697
13C12-PCB 205	52:48	1733325	346017	1.407	100.0	100.946679	100.95	100.946679		0.0495
PCB 202 (BZ)	43:09	735886	145320	0.993	50.00	47.315043	94.63	47.315043		0.0978
PCB 200 (BZ)/201 (IUPAC)	44:02	800402	161622	1.087	50.00	47.000199	94.00	47.000199		0.0893
PCB 204 (BZ)	44:40	747653	153373	1.033	50.00	46.183842	92.37	46.183842		0.0939

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	**Prep Batch**		**Lot No**	
Data File	/20071012s1/a071012s1.d	**Prep Date**		**SDG No**	
Analysis ID	99728	**Prep Exp Date**		**Date Received**	
Analysis Date	10/12/2007	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	11:04	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	IE3
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 197 (BZ)	44:55	790449	157170	1.061	50.00	47.536228	95.07	47.536228		0.0914
PCB 199 (BZ)/200 (IUPAC)	45:08	773862	154730	1.031	50.00	47.914237	95.83	47.914237		0.0941
PCB 198 (BZ)	47:50	1103935	133405	0.761	100.0	92.615091	92.62	92.615091	C	0.128
PCB 201 (BZ)/199 (IUPAC)		1103935		0.761	100.0	92.615091	92.62	92.615091	C198	0.128
PCB 196 (BZ)	48:29	538757	105315	0.752	50.00	45.722025	91.44	45.722025		0.129
PCB 203 (BZ)	48:41	595187	117925	0.856	50.00	44.381036	88.76	44.381036		0.113
PCB 195 (BZ)	50:05	629203	124344	0.723	50.00	50.240428	100.48	50.240428		0.124
PCB 194 (BZ)	52:21	674582	130934	0.795	50.00	48.961078	97.92	48.961078		0.113
PCB 205 (BZ)	52:49	825916	165570	0.984	50.00	48.403010	96.81	48.403010		0.0910
Total Nonachlorobiphenyl		2144167	422965			142.329730		142.329730		0.226
13C12-PCB 208	49:42	1631098	325759	1.161	100.0	115.093113	115.09	115.093113		0.0729
13C12-PCB 206	54:28	1055106	206340	0.823	100.0	105.075753	105.08	105.075753		0.103
PCB 208 (BZ)	49:43	780352	152984	1.026	50.00	46.616488	93.23	46.616488		0.0651
PCB 207 (BZ)	50:38	803605	161217	1.264	50.00	47.334273	94.67	47.334273		0.0647
PCB 206 (BZ)	54:30	560210	108764	1.097	50.00	48.378968	96.76	48.378968		0.0960
13C12-PCB 209	56:02	1319874	244857	0.930	100.0	116.260556	116.26	116.260556		0.0899
PCB 209 (BZ)	56:03	662467	125582	1.006	50.00	49.906612	99.81	49.906612		0.0924

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IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

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Data File	/20071012s1/a071012s1.d	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					**188.0393**	**190.0363**	**188.0393**	**190.0363**	**2.66-3.60**		
	Noise	00:00	00:00	0	173	160	69	64	1.08 *	/	
	PCB 1 (BZ)	12:19	12:20	-1	1320479	422166	525570	164203	3.13	AVV/AVV	
	PCB 2 (BZ)	14:21	14:23	-2	1160378	364057	381012	117724	3.19	ABV/ABV	
	PCB 3 (BZ)	14:33	14:33	0	1236922	397841	370272	125805	3.11	AVB/AVB	
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	220	158	88	63	1.40 *	/	
	13C12-PCB 1	12:18	12:19	-1	2449383	760545	931751	301920	3.22	AVV/AVV	
	13C12-PCB 3	14:32	14:32	0	2390386	710325	738870	229897	3.37	ABV/ABV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	275	555	110	222	0.50 *	/	
	PCB 4 (BZ)	14:50	14:50	0	543058	358644	171486	108694	1.51	ABV/ABV	
	PCB 10 (BZ)	14:59	15:01	-2	823788	518518	252299	156572	1.59	AVV/AVV	
	PCB 9 (BZ)	16:47	16:48	-1	859843	537246	253250	157787	1.60	ABV/ABV	
	PCB 7 (BZ)	16:56	16:57	-1	878142	531177	228930	138439	1.65	AVV/AVV	
	PCB 6 (BZ)	17:14	17:14	0	849391	521405	229091	137306	1.63	AVV/AVV	
	PCB 5 (BZ)	17:33	17:33	0	742460	461929	209173	127965	1.61	AVV/AVV	
	PCB 8 (BZ)	17:41	17:41	0	923367	565684	230770	141069	1.63	AVB/AVV	
	PCB 14 (BZ)	19:15	19:16	-1	957373	610532	237367	144430	1.57	ABV/ABV	
	PCB 11 (BZ)	20:10	20:10	0	814630	504855	185927	109546	1.61	ABV/ABV	
	PCB 13 (BZ)	20:30	20:26	4	1603068	1016412	300224	191287	1.58	AVV/AVV	
	PCB 15 (BZ)	20:50	20:47	3	869368	530984	194990	123120	1.64	AVB/AVV	
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	180	180	72	72	1.00 *	/	
	13C12-PCB 4	14:49	14:49	0	988476	611568	291552	183086	1.62	ABV/ABV	
	13C12-PCB 9	16:46	16:46	0	1558974	957192	423736	264967	1.63	ABV/ABV	
	13C12-PCB 8	17:39	17:39	0	783708	489446	195756	121168	1.60	AVV/AVV	
	13C12-PCB 15	20:49	20:47	2	1547715	963383	338109	216919	1.61	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	283	250	113	100	1.13	/	
	PCB 19 (BZ)	18:02	18:02	0	355851	333124	100228	93247	1.07	ABV/ABV	
	PCB 30 (BZ)	19:42	19:45	-3	510700	481188	126665	124511	1.06	ABV/ABV	D
	PCB 18 (BZ)	19:52	19:52	0	359346	339217	88945	85363	1.06	AVB/AVV	
	PCB 17 (BZ)	20:16	20:16	0	377350	355431	90699	88372	1.06	ABV/ABV	
	PCB 27 (BZ)	20:31	20:31	0	514674	489253	136986	133242	1.05	AVV/AVV	
	PCB 24 (BZ)	20:38	20:37	1	520300	493669	118758	112913	1.05	AVV/AVV	
	PCB 16 (BZ)	20:49	20:47	2	333173	305093	76368	71237	1.09	AVB/AVB	
	PCB 32 (BZ)	21:16	21:17	-1	570166	536131	143708	126052	1.06	ABV/ABV	D
	PCB 34 (BZ)	22:29	22:30	-1	648090	658755	152333	156729	0.98	ABV/ABV	D
	PCB 23 (BZ)	22:37	22:37	0	698263	711621	160667	158951	0.98	AVB/AVB	D
	PCB 29 (BZ)	22:58	22:57	1	1383993	1418113	273702	278293	0.98	ABV/ABV	
	PCB 25 (BZ)	23:12	23:11	1	752802	773266	155874	157138	0.97	AVV/AVV	
	PCB 31 (BZ)	23:31	23:32	-1	698074	723913	164348	164358	0.96	AVV/AVV	
	PCB 28 (BZ)	23:48	23:48	0	1321554	1358541	159295	165405	0.97	AVV/AVV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	PCB 33 (BZ)	24:06	24:06	0	1497435	1522259	165384	173168	0.98	AVV/AVV	
	PCB 22 (BZ)	24:32	24:30	2	653251	657518	142964	142311	0.99	AVB/AVB	
	PCB 36 (BZ)	25:59	26:00	-1	683905	713394	140032	143741	0.96	AVV/AVV	
	PCB 39 (BZ)	26:23	26:21	2	692404	687356	147608	145686	1.01	AVV/AVV	
	PCB 38 (BZ)	26:57	26:57	0	635702	638236	131891	131539	1.00	AVV/AVV	
	PCB 35 (BZ)	27:29	27:28	1	641457	639494	120784	123711	1.00	AVV/AVV	
	PCB 37 (BZ)	27:55	27:53	2	647431	645429	135413	130858	1.00	AVV/AVV	
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	370	300	148	120	1.23 *	/	
	13C12-PCB 19	18:01	18:00	1	599933	539156	159838	147832	1.11	AVV/AVV	
	13C12-PCB 32	21:15	21:15	0	970841	894862	241186	220051	1.08	ABV/ABV	
	13C12-PCB 31	23:30	23:30	0	1427144	1322815	320076	301073	1.08	ABV/ABV	
	13C12-PCB 28	23:47	23:47	0	703313	682724	153524	145485	1.03	AVV/AVV	
	13C12-PCB 37	27:54	27:51	3	1240539	1156584	245803	234384	1.07	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	258	340	103	136	0.76	/	
	PCB 54 (BZ)	21:11	21:09	2	299514	368686	72036	91816	0.81	ABV/ABV	
	PCB 50 (BZ)	23:14	23:16	-2	764013	990425	92850	125214	0.77	ABV/ABV	
	PCB 45 (BZ)	24:01	23:59	2	732124	947240	154518	199161	0.77	ABV/AVV	
	PCB 46 (BZ)	24:21	24:20	1	296153	386105	63500	85000	0.77	AVV/AVV	
	PCB 52 (BZ)	25:39	25:39	0	348536	447633	82909	111691	0.78	ABV/ABV	D
	PCB 73 (BZ)	25:47	25:46	1	783477	1005883	112523	140192	0.78	AVV/AVV	D
	PCB 69 (BZ)	26:00	26:01	-1	442200	585751	103871	135021	0.75	AVV/AVV	D
	PCB 49 (BZ)	26:08	26:08	0	419651	526308	85453	110151	0.80	AVB/AVB	
	PCB 48 (BZ)	26:24	26:24	0	343804	428429	74681	96189	0.80	ABV/ABV	D
	PCB 65 (BZ)	26:38	26:37	1	1198393	1523146	169277	218189	0.79	AVV/AVV	
	PCB 62 (BZ)	26:54	26:53	1	1513832	1939895	178649	229282	0.78	AVV/AVV	
	PCB 42 (BZ)	27:13	27:12	1	349015	449360	73444	98301	0.78	AVB/AVB	D
	PCB 41 (BZ)	27:38	27:37	1	261411	328760	60244	81079	0.80	ABV/ABV	
	PCB 71 (BZ)	27:44	27:42	2	778142	1010417	111257	151845	0.77	AVV/AVV	
	PCB 64 (BZ)	27:55	27:54	1	546202	711774	114387	155584	0.77	AVV/AVV	D
	PCB 72 (BZ)	28:39	28:42	-3	481652	608482	107885	137623	0.79	ABV/ABV	D
	PCB 68 (BZ)	28:56	28:57	-1	509059	653020	113286	139514	0.78	AVV/AVV	
	PCB 57 (BZ)	29:23	29:24	-1	455061	562300	97202	118774	0.81	ABV/ABV	
	PCB 58 (BZ)	29:40	29:40	0	455651	584983	98931	128008	0.78	AVV/AVV	
	PCB 67 (BZ)	29:47	29:47	0	493708	647843	99060	128857	0.76	AVV/AVV	
	PCB 63 (BZ)	30:03	30:04	-1	494403	633622	97269	131045	0.78	AVV/AVV	
	PCB 61 (BZ)	30:18	30:17	1	413388	523628	88790	113941	0.79	AVV/AVV	
	PCB 70 (BZ)	30:27	30:25	2	1538746	1968594	293806	383491	0.78	AVB/AVB	
	PCB 66 (BZ)	30:46	30:45	1	461763	587668	95632	122839	0.79	ABV/ABV	
	PCB 55 (BZ)	30:59	30:57	2	421924	550381	85644	113691	0.77	AVV/AVV	
	PCB 56 (BZ)	31:31	31:28	3	436318	565217	93906	115891	0.77	ABV/ABV	
	PCB 60 (BZ)	31:42	31:40	2	445827	578746	86061	115838	0.77	AVV/AVV	
	PCB 80 (BZ)	31:56	31:56	0	543903	710267	105801	139064	0.77	AVV/AVV	

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Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	PCB 79 (BZ)	33:34	33:34	0	506563	636390	97700	123707	0.80	ABV/ABV	
	PCB 78 (BZ)	34:09	34:08	1	419087	571009	78641	105021	0.73	AVV/ABV	
	PCB 81 (BZ)	34:38	34:35	3	459229	607220	91385	114239	0.76	AVV/AVV	
	PCB 77 (BZ)	35:14	35:10	4	446775	563459	84673	104065	0.79	AVV/AVV	
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	140	135	56	54	1.04 *	/	
	13C12-PCB 54	21:10	21:08	2	475371	587040	125178	146848	0.81	ABV/ABV	
	13C12-PCB 52	25:38	25:38	0	653758	838448	144640	190939	0.78	ABV/ABV	
	13C12-PCB 79	33:32	33:32	0	410753	518336	77483	96883	0.79	ABV/ABV	
	13C12-PCB 81	34:37	34:33	4	776515	992687	146733	186680	0.78	ABV/ABV	
	13C12-PCB 77	35:13	35:09	4	777530	999005	146758	186641	0.78	ABV/AVV	
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	333	275	133	110	1.21 *	/	
	PCB 104 (BZ)	26:34	26:35	-1	583667	359612	134627	80087	1.62	ABV/ABV	
	PCB 96 (BZ)	27:05	27:04	1	513262	317932	107329	67475	1.61	AVV/AVB	
	PCB 103 (BZ)	28:48	28:52	-4	425076	262251	86979	56317	1.62	ABV/ABV	D
	PCB 94 (BZ)	29:07	29:08	-1	357110	225592	73079	46855	1.58	AVB/AVV	
	PCB 95 (BZ)	29:38	29:38	0	856659	548486	163231	97285	1.56	ABV/ABV	
	PCB 93 (BZ)	29:48	29:47	1	385488	228081	76937	47689	1.69	AVV/AVV	M
	PCB 102 (BZ)	29:55	29:55	0	824095	504962	113641	67820	1.63	AVB/AVB	M
	PCB 88 (BZ)	30:19	30:19	0	337745	217273	72380	46454	1.55	ABV/ABV	
	PCB 91 (BZ)	30:26	30:26	0	433443	269659	93904	58523	1.61	AVB/AVV	
	PCB 84 (BZ)	30:45	30:43	2	317624	205181	70158	42267	1.55	ABB/AVB	
	PCB 89 (BZ)	31:13	31:11	2	348221	215506	75383	44741	1.62	ABV/ABV	
	PCB 121 (BZ)	31:21	31:25	-4	544523	348576	114167	72126	1.56	AVV/AVV	M
	PCB 92 (BZ)	31:51	31:53	-2	384864	240095	78525	49240	1.60	ABV/ABV	
	PCB 113 (BZ)	32:25	32:25	0	1448612	908740	269846	168838	1.59	ABV/ABV	
	PCB 83 (BZ)	32:58	32:59	-1	769883	471170	159718	92961	1.63	ABV/ABV	
	PCB 112 (BZ)	33:09	33:09	0	524627	339575	108409	67221	1.54	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	33:28	33:29	-1	2842320	1779653	230817	145854	1.60	ABB/ABB	
	PCB 117 (BZ)	34:09	34:09	0	1391555	858301	118405	74353	1.62	ABV/ABV	
	PCB 110 (BZ)	34:29	34:28	1	1115778	713477	211276	133704	1.56	AVB/AVB	
	PCB 82 (BZ)	34:53	34:50	3	283198	179094	61444	40244	1.58	ABV/ABV	
	PCB 111 (BZ)	35:02	35:04	-2	546098	349274	108527	69974	1.56	AVV/AVV	D
	PCB 120 (BZ)	35:29	35:32	-3	563161	357141	117668	72908	1.58	AVB/AVV	D
	PCB 108 (BZ)/107 (IUPAC	36:43	36:44	-1	1272678	811534	253490	160946	1.57	ABV/ABV	
	PCB 107 (BZ)/109 (IUPAC	36:57	36:58	-1	616542	398840	121532	81328	1.55	AVV/AVV	D
	PCB 123 (BZ)	37:05	37:03	2	653432	418902	134501	83060	1.56	AVV/AVV	
	PCB 106 (BZ)	37:12	37:12	0	594749	376409	120544	76766	1.58	AVV/AVV	
	PCB 118 (BZ)	37:24	37:24	0	679746	424105	131300	84144	1.60	AVV/AVV	
	PCB 122 (BZ)	37:49	37:48	1	587506	373325	121135	74158	1.57	ABV/ABV	
	PCB 114 (BZ)	37:57	37:56	1	689501	437348	133807	84177	1.58	AVB/AVB	
	PCB 105 (BZ)	38:41	38:39	2	652613	416959	124505	81693	1.57	ABV/ABB	
	PCB 127 (BZ)	40:01	40:01	0	643566	414532	125509	81882	1.55	AVV/AVV	D

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	PCB 126 (BZ)	41:44	41:40	4	645310	421039	121212	78317	1.53	ABV/ABV	M
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	173	138	69	55	1.25 *	/	
	13C12-PCB 104	26:33	26:33	0	1080526	672222	237419	153091	1.61	ABV/ABV	
	13C12-PCB 95	29:36	29:35	1	364474	229029	80586	51756	1.59	ABV/ABV	
	13C12-PCB 101	32:25	32:25	0	784653	490828	158608	100665	1.60	ABV/ABV	
	13C12-PCB 111	35:01	35:02	-1	487698	300084	98004	60151	1.63	ABV/ABV	
	13C12-PCB 123	37:04	37:03	1	1235227	752835	254463	153331	1.64	ABV/ABV	
	13C12-PCB 118	37:23	37:22	1	1319844	824487	252659	165020	1.60	AVV/AVV	
	13C12-PCB 114	37:55	37:54	1	1218459	749492	232112	143956	1.63	AVV/AVV	
	13C12-PCB 105	38:40	38:37	3	1192968	743357	236539	146779	1.60	ABV/ABV	
	13C12-PCB 127	40:00	40:00	0	1243918	772703	249016	150721	1.61	ABV/ABV	
	13C12-PCB 126	41:42	41:39	3	1275194	811693	238959	154259	1.57	ABV/ABV	
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	Noise	00:00	00:00	0	370	333	148	133	1.11	/	
	PCB 155 (BZ)	32:04	32:07	-3	492772	381947	107095	78898	1.29	ABB/ABV	
	PCB 152 (BZ)	32:28	32:29	-1	446565	357969	95446	77069	1.25	ABV/ABV	
	PCB 150 (BZ)	32:34	32:35	-1	478470	372780	101333	77057	1.28	AVB/AVB	
	PCB 136 (BZ)	33:05	33:04	1	433581	334108	91522	68225	1.30	ABV/ABV	
	PCB 145 (BZ)	33:16	33:17	-1	453099	360002	95680	74240	1.26	AVV/AVV	
	PCB 148 (BZ)	34:38	34:41	-3	322194	261972	68119	56565	1.23	ABV/ABV	
	PCB 135 (BZ)	35:26	35:25	1	1030838	809557	118989	96923	1.27	ABV/ABV	
	PCB 144 (BZ)	35:53	35:54	-1	338395	254046	69162	53427	1.33	AVB/ABB	
	PCB 147 (BZ)	36:15	36:15	0	887759	714767	142136	118245	1.24	ABV/ABV	
	PCB 143 (BZ)	36:35	36:37	-2	714601	562065	84237	65025	1.27	AVV/AVV	
	PCB 139 (BZ)	36:49	36:49	0	880806	683075	129475	100838	1.29	AVV/AVV	
	PCB 131 (BZ)	37:06	37:04	2	355553	282716	72534	57508	1.26	AVV/AVV	
	PCB 142 (BZ)	37:14	37:14	0	353384	277146	71298	56444	1.28	AVB/AVB	
	PCB 132 (BZ)	37:37	37:36	1	352355	287075	70144	56745	1.23	ABB/ABB	
	PCB 133 (BZ)	37:56	37:58	-2	384050	307766	77843	60718	1.25	ABB/ABB	
	PCB 165 (BZ)	38:20	38:21	-1	498375	386640	102032	78336	1.29	ABV/ABV	
	PCB 146 (BZ)	38:33	38:35	-2	437178	343801	85970	67573	1.27	AVV/AVV	
	PCB 161 (BZ)	38:41	38:44	-3	557140	439529	113036	87792	1.27	AVB/AVB	
	PCB 153 (BZ)	39:11	39:13	-2	1090527	865294	179642	140097	1.26	ABV/ABV	
	PCB 141 (BZ)	39:27	39:27	0	395263	303159	79207	56932	1.30	AVV/AVV	
	PCB 130 (BZ)	39:53	39:53	0	346524	276810	74067	53959	1.25	ABV/ABV	
	PCB 137 (BZ)	40:03	40:03	0	424712	340327	85489	67363	1.25	AVV/AVV	
	PCB 164 (BZ)	40:14	40:12	2	523564	409691	102963	78286	1.28	AVV/AVV	
	PCB 138 (BZ)	40:31	40:30	1	1871013	1451428	203602	151718	1.29	AVV/AVV	
	PCB 158 (BZ)	40:52	40:51	1	606432	469087	123752	93844	1.29	AVB/AVB	
	PCB 166 (BZ)	41:42	41:42	0	560693	436484	111734	85962	1.28	ABV/ABV	
	PCB 128 (BZ)	41:52	41:49	3	383391	313029	73438	54726	1.22	AVB/AVV	
	PCB 159 (BZ)	42:39	42:41	-2	543510	426077	102054	82023	1.28	ABV/ABV	
	PCB 162 (BZ)	42:57	42:57	0	541417	423252	108998	84581	1.28	AVV/AVV	

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	PCB 167 (BZ)	43:26	43:27	-1	567753	454014	110788	91334	1.25	ABB/ABB	
	PCB 156 (BZ)	44:43	44:37	6	1154539	903764	115781	90615	1.28	ABB/ABB	DM
	PCB 169 (BZ)	47:52	47:49	3	577909	456093	109484	82697	1.27	ABV/ABV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	148	125	59	50	1.18	/	
	13C12-PCB 155	32:01	32:06	-5	928799	730405	196905	157181	1.27	ABV/ABV	M
	13C12-PCB 153	39:08	39:10	-2	417978	324770	85926	64743	1.29	ABV/ABV	
	13C12-PCB 138	40:28	40:28	0	848160	657099	165997	131279	1.29	ABV/ABV	
	13C12-PCB 167	43:25	43:24	1	1068873	839133	200751	166955	1.27	ABV/AVV	
	13C12-PCB 156	44:42	44:34	8	2125949	1644867	229521	172260	1.29	ABV/ABV	M
	13C12-PCB 169	47:51	47:48	3	995514	765590	184367	147630	1.30	ABV/ABV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	300	260	120	104	1.15	/	
	PCB 188 (BZ)	37:47	37:49	-2	465149	456187	95420	91802	1.02	ABV/ABV	
	PCB 179 (BZ)	38:16	38:17	-1	431700	417703	91673	83704	1.03	AVV/AVV	
	PCB 184 (BZ)	38:38	38:41	-3	420657	418690	82124	83210	1.00	AVV/AVV	
	PCB 176 (BZ)	39:07	39:09	-2	461960	448542	93503	93283	1.03	ABV/ABV	
	PCB 186 (BZ)	39:37	39:36	1	441690	424948	89177	82894	1.04	AVB/AVV	D
	PCB 178 (BZ)	40:52	40:54	-2	316301	290285	63532	60173	1.09	ABV/ABB	
	PCB 175 (BZ)	41:29	41:31	-2	329676	313047	63004	63889	1.05	ABV/ABV	
	PCB 187 (BZ)	41:44	41:47	-3	366647	354235	75104	76838	1.04	AVV/AVV	
	PCB 182 (BZ)	41:55	41:58	-3	369031	350320	77399	69679	1.05	AVB/AVB	
	PCB 183 (BZ)	42:20	42:23	-3	347320	334555	75068	68701	1.04	ABV/ABV	
	PCB 185 (BZ)	42:31	42:32	-1	321583	310870	68052	61501	1.03	AVV/AVV	
	PCB 174 (BZ)	42:43	42:42	1	335387	316119	66282	61551	1.06	AVB/AVV	
	PCB 177 (BZ)	43:08	43:08	0	307083	303523	63760	58863	1.01	ABB/ABB	
	PCB 181 (BZ)	43:27	43:28	-1	347629	326655	69382	64823	1.06	ABV/ABV	
	PCB 173 (BZ)	43:44	43:44	0	603642	583266	115241	112220	1.03	AVB/AVB	
	PCB 172 (BZ)	45:17	45:19	-2	304508	287566	61830	57070	1.06	ABV/ABV	
	PCB 192 (BZ)	45:33	45:33	0	409424	376350	79254	73793	1.09	AVV/AVV	
	PCB 193 (BZ)	45:54	45:52	2	835088	794554	133609	124718	1.05	AVV/AVV	
	PCB 191 (BZ)	46:16	46:18	-2	439109	423692	84232	82314	1.04	AVB/AVV	
	PCB 170 (BZ)	47:16	47:16	0	307490	286811	60216	56140	1.07	ABV/ABV	
	PCB 190 (BZ)	47:45	47:45	0	465171	452508	84884	81829	1.03	ABV/ABV	
	PCB 189 (BZ)	50:19	50:17	2	536220	526023	103179	101500	1.02	ABV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	135	115	54	46	1.17	/	
	13C12-PCB 188	37:46	37:48	-2	964857	903077	198417	186096	1.07	ABV/ABV	
	13C12-PCB 178	40:51	40:52	-1	297473	288415	59229	58980	1.03	ABV/ABB	
	13C12-PCB 180	45:54	45:54	0	731610	698620	147246	137701	1.05	ABV/ABV	
	13C12-PCB 170	47:15	47:14	1	608516	573991	120261	112671	1.06	ABV/ABV	
	13C12-PCB 189	50:17	50:15	2	1029391	965568	195390	187547	1.07	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**	
	Noise	00:00	00:00	0	158	153	63	61	1.03 *	/
	PCB 202 (BZ)	43:09	43:09	0	342453	393433	67388	77932	0.87	ABV/ABV
	PCB 200 (BZ)/201 (IUPAC	44:02	44:05	-3	371470	428932	74875	86747	0.87	ABB/ABV
	PCB 204 (BZ)	44:40	44:43	-3	354132	393521	73164	80209	0.90	ABV/ABV
	PCB 197 (BZ)	44:55	44:57	-2	365051	425398	71747	85423	0.86	AVV/AVV
	PCB 199 (BZ)/200 (IUPAC	45:08	45:09	-1	365621	408241	71725	83005	0.90	AVB/AVV
	PCB 198 (BZ)	47:50	47:48	2	521249	582686	61558	71847	0.89	ABV/ABV
	PCB 196 (BZ)	48:29	48:31	-2	253584	285173	50309	55006	0.89	ABV/ABV
	PCB 203 (BZ)	48:41	48:41	0	276169	319018	57100	60825	0.87	AVB/AVB
	PCB 195 (BZ)	50:05	50:02	3	299599	329604	59690	64654	0.91	ABV/ABV
	PCB 194 (BZ)	52:21	52:20	1	321733	352849	61967	68967	0.91	ABV/ABB
	PCB 205 (BZ)	52:49	52:48	1	388091	437825	78536	87034	0.89	ABV/ABV
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**	
	Noise	00:00	00:00	0	80	83	32	33	0.97	/
	13C12-PCB 202	43:07	43:08	-1	745937	820768	152875	166582	0.91	ABV/ABV
	13C12-PCB 194	52:20	52:19	1	576589	644004	109663	123608	0.90	ABV/ABV
	13C12-PCB 205	52:48	52:46	2	828813	904512	164769	181248	0.92	AVV/AVV
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**	
	Noise	00:00	00:00	0	98	120	39	48	0.81	/
	PCB 208 (BZ)	49:43	49:45	-2	339902	440450	66887	86097	0.77	ABV/ABV
	PCB 207 (BZ)	50:38	50:40	-2	350993	452612	69695	91522	0.78	ABV/ABV
	PCB 206 (BZ)	54:30	54:29	1	243548	316662	48937	59827	0.77	ABV/ABV
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**	
	Noise	00:00	00:00	0	105	93	42	37	1.14 *	/
	13C12-PCB 208	49:42	49:44	-2	712200	918898	141373	184386	0.78	ABV/ABV
	13C12-PCB 206	54:28	54:28	0	456970	598136	88270	118070	0.76	ABV/ABV
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**	
	Noise	00:00	00:00	0	103	125	41	50	0.82 *	/
	PCB 209 (BZ)	56:03	56:04	-1	267108	395359	52912	72670	0.68	ABV/ABV
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**	
	Noise	00:00	00:00	0	85	110	34	44	0.77	/
	13C12-PCB 209	56:02	56:03	-1	538206	781668	99949	144908	0.69	ABV/ABV

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.d	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
Total Monochlorobiphenyl		4901843	1684586			121.832676		121.832676		0.0716
13C12-PCB 1	12:18	3209928	1233671	1.318	100.0	96.815908	96.82	96.815908		0.0416
13C12-PCB 3	14:32	3100711	968767	1.325	100.0	92.970725	92.97	92.970725		0.0414
PCB 1 (BZ)	12:19	1742645	689773	1.253	50.00	43.332030	86.66	43.332030		0.0215
PCB 2 (BZ)	14:21	1524435	498736	1.226	50.00	39.395768	78.79	39.395768		0.0246
PCB 3 (BZ)	14:33	1634763	496077	1.348	50.00	39.104879	78.21	39.104879		0.0255
Total Dichlorobiphenyl		16021874	3538211			551.368006		551.368006		1.27
13C12-PCB 4	14:49	1600044	474638	0.615	100.0	103.420222	103.42	103.420222		0.0850
13C12-PCB 9	16:46	2516166	688703	1.000	100.0	100.000000	100.00	100.000000		0.0523
13C12-PCB 8	17:39	1273154	316924	1.332	50.00	46.487210	92.97	46.487210	E	0.0525
13C12-PCB 15	20:49	2511098	555028	1.065	100.0	93.726294	93.73	93.726294		0.0491
PCB 4 (BZ)	14:50	901702	280180	1.212	50.00	46.514238	93.03	46.514238		0.144
PCB 10 (BZ)	14:59	1342306	408871	1.326	50.00	49.261508	98.52	49.261508		0.122
PCB 9 (BZ)	16:47	1397089	411037	1.445	50.00	47.026675	94.05	47.026675		0.112
PCB 7 (BZ)	16:56	1409319	367369	1.432	50.00	47.887990	95.78	47.887990		0.113
PCB 6 (BZ)	17:14	1370796	366397	1.450	50.00	45.987290	91.97	45.987290		0.111
PCB 5 (BZ)	17:33	1204389	337138	1.356	50.00	43.213229	86.43	43.213229		0.119
PCB 8 (BZ)	17:41	1489051	371839	1.477	50.00	49.050362	98.10	49.050362		0.109
PCB 14 (BZ)	19:15	1567905	381797	1.687	50.00	45.201962	90.40	45.201962		0.0955
PCB 11 (BZ)	20:10	1319485	295473	1.448	50.00	44.339907	88.68	44.339907		0.111
PCB 13 (BZ)	20:30	2619480	491511	1.454	100.0	87.647104	87.65	87.647104	C12	0.111
PCB 12 (BZ)		2619480		1.454	100.0	87.647104	87.65	87.647104	C	0.111
PCB 15 (BZ)	20:50	1400352	318110	1.233	50.00	45.237740	90.48	45.237740		0.121
Total Trichlorobiphenyl		28976922	5287482			1120.79768		1120.79768		2.08
13C12-PCB 19	18:01	1139089	307670	0.558	100.0	109.348547	109.35	109.348547		0.260
13C12-PCB 32	21:15	1865703	461237	1.000	100.0	100.000000	100.00	100.000000		0.145
13C12-PCB 31	23:30	2749959	621149	1.000	100.0	100.000000	100.00	100.000000		0.108
13C12-PCB 28	23:47	1386037	299009	0.968	50.00	52.075893	104.15	52.075893	E	0.111
13C12-PCB 37	27:54	2397123	480187	0.885	100.0	98.468414	98.47	98.468414		0.122
PCB 19 (BZ)	18:02	688975	193475	1.178	50.00	51.359081	102.72	51.359081		0.147
PCB 30 (BZ)	19:42	991888	251176	1.874	50.00	46.456392	92.91	46.456392		0.0923
PCB 18 (BZ)	19:52	698563	174308	1.262	50.00	48.588662	97.18	48.588662		0.137
PCB 17 (BZ)	20:16	732781	179071	1.326	50.00	48.516303	97.03	48.516303		0.131
PCB 27 (BZ)	20:31	1003927	270228	1.945	50.00	45.310311	90.62	45.310311		0.0890
PCB 24 (BZ)	20:38	1013969	231671	1.782	50.00	49.953086	99.91	49.953086		0.0971
PCB 16 (BZ)	20:49	638266	147605	1.157	50.00	48.415537	96.83	48.415537		0.150
PCB 32 (BZ)	21:16	1106297	269760	1.966	50.00	49.389611	98.78	49.389611		0.0880
PCB 34 (BZ)	22:29	1306845	309062	1.216	50.00	44.834720	89.67	44.834720		0.0912
PCB 23 (BZ)	22:37	1409884	319618	1.208	50.00	48.696342	97.39	48.696342		0.0918
PCB 29 (BZ)	22:58	2802106	551995	1.265	100.0	92.426271	92.43	92.426271	C26	0.0877
PCB 26 (BZ)		2802106		1.265	100.0	92.426271	92.43	92.426271	C	0.0877
PCB 25 (BZ)	23:12	1526068	313012	1.362	50.00	46.757524	93.52	46.757524		0.0814
PCB 31 (BZ)	23:31	1421987	328706	1.285	50.00	46.148197	92.30	46.148197		0.0863
PCB 28 (BZ)	23:48	2680095	324700	1.238	100.0	90.287795	90.29	90.287795	C20	0.0896
PCB 20 (BZ)		2680095		1.238	100.0	90.287795	90.29	90.287795	C	0.0896
PCB 21 (BZ)		3019694		1.276	100.0	98.754021	98.75	98.754021	C	0.0869
PCB 33 (BZ)	24:06	3019694	338552	1.276	100.0	98.754021	98.75	98.754021	C21	0.0869
PCB 22 (BZ)	24:32	1310769	285275	1.218	50.00	44.887481	89.77	44.887481		0.0910
PCB 36 (BZ)	25:59	1397299	283773	1.286	50.00	45.334970	90.67	45.334970		0.0862

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Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 39 (BZ)	26:23	1379760	293294	1.330	50.00	43.275573	86.55	43.275573		0.0834
PCB 38 (BZ)	26:57	1273938	263430	1.246	50.00	42.651220	85.30	42.651220		0.0890
PCB 35 (BZ)	27:29	1280951	244495	1.195	50.00	44.704396	89.41	44.704396		0.0928
PCB 37 (BZ)	27:55	1292860	266271	1.224	50.00	44.050188	88.10	44.050188		0.0906
Total Tetrachlorobiphenyl		41262165	6200316			2097.64871		2097.64871		5.26
13C12-PCB 54	21:10	1062411	272026	0.598	100.0	95.292407	95.29	95.292407		0.0998
13C12-PCB 52	25:38	1492206	335579	1.000	100.0	100.000000	100.00	100.000000		0.0819
13C12-PCB 79	33:32	929089	174366	1.089	50.00	48.141476	96.28	48.141476	E	0.0758
13C12-PCB 81	34:37	1769202	333413	1.286	100.0	92.165312	92.17	92.165312		0.0637
13C12-PCB 77	35:13	1776535	333399	1.297	100.0	91.778961	91.78	91.778961		0.0632
PCB 54 (BZ)	21:11	668200	163852	1.211	50.00	51.933053	103.87	51.933053		0.181
PCB 50 (BZ)	23:14	1754438	218064	0.927	100.0	106.774491	106.77	106.774491	C	0.193
PCB 53 (BZ)		1754438		0.927	100.0	106.774491	106.77	106.774491	C50	0.193
PCB 45 (BZ)	24:01	1679364	353679	0.857	100.0	110.505820	110.51	110.505820	C	0.209
PCB 51 (BZ)		1679364		0.857	100.0	110.505820	110.51	110.505820	C45	0.209
PCB 46 (BZ)	24:21	682258	148500	0.706	50.00	54.483455	108.97	54.483455		0.254
PCB 52 (BZ)	25:39	796169	194600	0.926	50.00	48.500691	97.00	48.500691		0.194
PCB 73 (BZ)	25:47	1789360	252715	0.957	100.0	105.426143	105.43	105.426143	C43	0.187
PCB 43 (BZ)		1789360		0.957	100.0	105.426143	105.43	105.426143	C	0.187
PCB 69 (BZ)	26:00	1027951	238892	1.180	50.00	49.118197	98.24	49.118197		0.152
PCB 49 (BZ)	26:08	945959	195604	1.005	50.00	53.074471	106.15	53.074471		0.178
PCB 48 (BZ)	26:24	772233	170870	0.886	50.00	49.165077	98.33	49.165077		0.202
PCB 65 (BZ)	26:38	2721539	387466	1.024	150.0	149.951189	99.97	149.951189	C44	0.175
PCB 47 (BZ)		2721539		1.024	150.0	149.951189	99.97	149.951189	C44	0.175
PCB 44 (BZ)		2721539		1.024	150.0	149.951189	99.97	149.951189	C	0.175
PCB 62 (BZ)	26:54	3453727	407931	1.297	150.0	150.255120	100.17	150.255120	C59	0.138
PCB 75 (BZ)		3453727		1.297	150.0	150.255120	100.17	150.255120	C59	0.138
PCB 59 (BZ)		3453727		1.297	150.0	150.255120	100.17	150.255120	C	0.138
PCB 42 (BZ)	27:13	798375	171745	0.860	50.00	52.389165	104.78	52.389165		0.208
PCB 41 (BZ)	27:38	590171	141323	0.723	50.00	46.019875	92.04	46.019875		0.248
PCB 71 (BZ)	27:44	1788559	263102	0.953	100.0	105.832489	105.83	105.832489	C40	0.188
PCB 40 (BZ)		1788559		0.953	100.0	105.832489	105.83	105.832489	C	0.188
PCB 64 (BZ)	27:55	1257976	269971	1.313	50.00	54.041995	108.08	54.041995		0.136
PCB 72 (BZ)	28:39	1090134	245508	1.257	50.00	48.914038	97.83	48.914038		0.143
PCB 68 (BZ)	28:56	1162079	252800	1.327	50.00	49.390203	98.78	49.390203		0.135
PCB 57 (BZ)	29:23	1017361	215976	1.194	50.00	48.060220	96.12	48.060220		0.150
PCB 58 (BZ)	29:40	1040634	226939	1.260	50.00	46.598306	93.20	46.598306		0.142
PCB 67 (BZ)	29:47	1141551	227917	1.286	50.00	50.054935	100.11	50.054935		0.139
PCB 63 (BZ)	30:03	1128025	228314	1.339	50.00	47.529710	95.06	47.529710		0.134
PCB 61 (BZ)	30:18	937016	202731	1.190	50.00	44.409152	88.82	44.409152		0.151
PCB 70 (BZ)	30:27	3507340	677297	1.317	150.0	150.206934	100.14	150.206934	C	0.136
PCB 76 (BZ)		3507340		1.317	150.0	150.206934	100.14	150.206934	C70	0.136
PCB 74 (BZ)		3507340		1.317	150.0	150.206934	100.14	150.206934	C70	0.136
PCB 66 (BZ)	30:46	1049431	218471	1.289	50.00	45.913556	91.83	45.913556		0.139
PCB 55 (BZ)	30:59	972305	199335	1.161	50.00	47.257670	94.52	47.257670		0.154
PCB 56 (BZ)	31:31	1001535	209797	1.231	50.00	45.896575	91.79	45.896575		0.146
PCB 60 (BZ)	31:42	1024573	201899	1.191	50.00	48.525301	97.05	48.525301		0.150
PCB 80 (BZ)	31:56	1254170	244865	1.416	50.00	49.957197	99.91	49.957197		0.127
PCB 79 (BZ)	33:34	1142953	221407	1.371	50.00	47.032721	94.07	47.032721		0.131

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Data File	/20071012s1/a071012s1.d	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 78 (BZ)	34:09	990096	183662	1.181	50.00	47.277313	94.55	47.277313		0.152
PCB 81 (BZ)	34:38	1066449	205624	1.317	50.00	45.753503	91.51	45.753503		0.136
PCB 77 (BZ)	35:14	1010234	188738	1.200	50.00	47.400152	94.80	47.400152		0.149
Total Pentachlorobiphenyl		37225276	4706703			2103.57533		2103.57533		5.33
13C12-PCB 104	26:33	1752748	390510	1.260	100.0	109.083750	109.08	109.083750		0.0949
13C12-PCB 95	29:36	593503	132342	0.741	50.00	45.714849	91.43	45.714849	E	0.107
13C12-PCB 101	32:25	1275481	259273	1.000	100.0	100.000000	100.00	100.000000		0.120
13C12-PCB 111	35:01	787782	158155	1.229	50.00	50.254753	100.51	50.254753	E	0.0973
13C12-PCB 123	37:04	1988062	407794	0.955	100.0	103.281551	103.28	103.281551		0.0812
13C12-PCB 118	37:23	2144331	417679	0.988	100.0	107.622600	107.62	107.622600		0.0785
13C12-PCB 114	37:55	1967951	376068	0.971	100.0	100.526431	100.53	100.526431		0.0799
13C12-PCB 105	38:40	1936325	383318	0.941	100.0	102.019407	102.02	102.019407		0.0824
13C12-PCB 127	40:00	2016621	399737	1.000	100.0	100.000000	100.00	100.000000		0.0776
13C12-PCB 126	41:42	2086887	393218	0.978	100.0	105.831013	105.83	105.831013		0.0793
PCB 104 (BZ)	26:34	943279	214714	1.149	50.00	46.818469	93.64	46.818469		0.135
PCB 96 (BZ)	27:05	831194	174804	1.014	50.00	46.789491	93.58	46.789491		0.153
PCB 103 (BZ)	28:48	687327	143296	0.866	50.00	45.262548	90.53	45.262548		0.180
PCB 94 (BZ)	29:07	582702	119934	0.703	50.00	47.303813	94.61	47.303813		0.221
PCB 95 (BZ)	29:38	1405145	260516	0.859	100.0	93.357395	93.36	93.357395	C	0.181
PCB 100 (BZ)		1405145		0.859	100.0	93.357395	93.36	93.357395	C95	0.181
PCB 93 (BZ)	29:48	613569	124626	0.701	50.00	49.906862	99.81	49.906862		0.222
PCB 102 (BZ)	29:55	1329057	181461	0.822	100.0	92.218948	92.22	92.218948	C98	0.189
PCB 98 (BZ)		1329057		0.822	100.0	92.218948	92.22	92.218948	C	0.189
PCB 88 (BZ)	30:19	555018	118834	0.723	50.00	43.802172	87.60	43.802172		0.215
PCB 91 (BZ)	30:26	703102	152427	0.864	50.00	46.440560	92.88	46.440560		0.180
PCB 84 (BZ)	30:45	522805	112425	0.679	50.00	43.905431	87.81	43.905431		0.229
PCB 89 (BZ)	31:13	563727	120124	0.717	50.00	44.840197	89.68	44.840197		0.217
PCB 121 (BZ)	31:21	893099	186293	1.105	50.00	46.110516	92.22	46.110516		0.141
PCB 92 (BZ)	31:51	624959	127765	0.772	50.00	46.165548	92.33	46.165548		0.201
PCB 113 (BZ)	32:25	2357352	438684	0.990	150.0	135.903546	90.60	135.903546	C90	0.157
PCB 90 (BZ)		2357352		0.990	150.0	135.903546	90.60	135.903546	C	0.157
PCB 101 (BZ)		2357352		0.990	150.0	135.903546	90.60	135.903546	C90	0.157
PCB 83 (BZ)	32:58	1241053	252679	0.777	100.0	91.168341	91.17	91.168341	C	0.200
PCB 99 (BZ)		1241053		0.777	100.0	91.168341	91.17	91.168341	C83	0.200
PCB 112 (BZ)	33:09	864202	175630	1.079	50.00	45.697399	91.39	45.697399		0.144
PCB 109 (BZ)/108 (IUPAC)	33:28	4621973	376671	0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 86 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C	0.161
PCB 119 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 97 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 125 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 87 (BZ)		4621973		0.967	300.0	272.758398	90.92	272.758398	C86	0.161
PCB 117 (BZ)	34:09	2249856	192758	0.979	150.0	131.097179	87.40	131.097179	C85	0.159
PCB 116 (BZ)		2249856		0.979	150.0	131.097179	87.40	131.097179	C85	0.159
PCB 85 (BZ)		2249856		0.979	150.0	131.097179	87.40	131.097179	C	0.159
PCB 110 (BZ)	34:29	1829255	344980	1.139	100.0	91.649995	91.65	91.649995	C	0.137
PCB 115 (BZ)		1829255		1.139	100.0	91.649995	91.65	91.649995	C110	0.137
PCB 82 (BZ)	34:53	462292	101688	0.605	50.00	43.621920	87.24	43.621920		0.257
PCB 111 (BZ)	35:02	895372	178501	1.129	50.00	45.257181	90.51	45.257181		0.138
PCB 120 (BZ)	35:29	920302	190576	1.192	50.00	44.043078	88.09	44.043078		0.130

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Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 124 (BZ)		2084212		1.123	100.0	91.624446	91.62	91.624446	C108	0.137
PCB 108 (BZ)/107 (IUPAC)	36:43	2084212	414436	1.123	100.0	91.624446	91.62	91.624446	C	0.137
PCB 107 (BZ)/109 (IUPAC)	36:57	1015382	202860	1.074	50.00	46.689103	93.38	46.689103		0.143
PCB 123 (BZ)	37:05	1072334	217561	1.136	50.00	47.480495	94.96	47.480495		0.131
PCB 106 (BZ)	37:12	971158	197310	1.046	50.00	45.853391	91.71	45.853391		0.147
PCB 118 (BZ)	37:24	1103851	215444	1.094	50.00	47.067107	94.13	47.067107		0.133
PCB 122 (BZ)	37:49	960831	195293	1.047	50.00	45.305393	90.61	45.305393		0.147
PCB 114 (BZ)	37:57	1126849	217984	1.196	50.00	47.871959	95.74	47.871959		0.135
PCB 105 (BZ)	38:41	1069572	206198	1.218	50.00	45.346037	90.69	45.346037		0.130
PCB 127 (BZ)	40:01	1058098	207391	1.130	50.00	46.226784	92.45	46.226784		0.136
PCB 126 (BZ)	41:44	1066349	199529	1.111	50.00	45.991632	91.98	45.991632		0.139
Total Hexachlorobiphenyl		33949832	5413172			2021.83225		2021.83225		8.52
13C12-PCB 155	32:01	1659204	354086	1.178	100.0	110.436571	110.44	110.436571		0.0892
13C12-PCB 153	39:08	742748	150669	0.833	50.00	47.914371	95.83	47.914371	E	0.119
13C12-PCB 138	40:28	1505259	297276	1.000	100.0	100.000000	100.00	100.000000		0.0917
13C12-PCB 167	43:25	1908006	367706	1.237	100.0	102.500343	102.50	102.500343		0.0741
13C12-PCB 156	44:42	3770816	401781	1.229	200.0	203.863500	101.93	203.863500		0.0746
13C12-PCB 157								ND		0.000000
13C12-PCB 169	47:51	1761104	331997	1.188	100.0	98.517218	98.52	98.517218		0.0772
PCB 155 (BZ)	32:04	874719	185993	1.117	50.00	47.194427	94.39	47.194427		0.178
PCB 152 (BZ)	32:28	804534	172515	1.023	50.00	47.385278	94.77	47.385278		0.194
PCB 150 (BZ)	32:34	851250	178390	1.032	50.00	49.699327	99.40	49.699327		0.192
PCB 136 (BZ)	33:05	767689	159747	0.967	50.00	47.869503	95.74	47.869503		0.205
PCB 145 (BZ)	33:16	813101	169920	1.021	50.00	48.020061	96.04	48.020061		0.194
PCB 148 (BZ)	34:38	584166	124684	0.749	50.00	47.006982	94.01	47.006982		0.265
PCB 151 (BZ)		1840395		0.781	150.0	142.113585	94.74	142.113585	C135	0.254
PCB 135 (BZ)	35:26	1840395	215912	0.781	150.0	142.113585	94.74	142.113585	C	0.254
PCB 154 (BZ)		1840395		0.781	150.0	142.113585	94.74	142.113585	C135	0.254
PCB 144 (BZ)	35:53	592441	122589	0.759	50.00	47.065294	94.13	47.065294		0.262
PCB 147 (BZ)	36:15	1602526	260381	0.862	100.0	99.978470	99.98	99.978470	C	0.296
PCB 149 (BZ)		1602526		0.862	100.0	99.978470	99.98	99.978470	C147	0.296
PCB 134 (BZ)		1276666		0.711	100.0	96.478463	96.48	96.478463	C	0.359
PCB 143 (BZ)	36:35	1276666	149262	0.711	100.0	96.478463	96.48	96.478463	C134	0.359
PCB 139 (BZ)	36:49	1563881	230313	0.856	100.0	98.259782	98.26	98.259782	C	0.298
PCB 140 (BZ)		1563881		0.856	100.0	98.259782	98.26	98.259782	C139	0.298
PCB 131 (BZ)	37:06	638269	130042	0.713	50.00	48.095519	96.19	48.095519		0.358
PCB 142 (BZ)	37:14	630530	127742	0.735	50.00	46.124155	92.25	46.124155		0.347
PCB 132 (BZ)	37:37	639430	126889	0.710	50.00	48.406860	96.81	48.406860		0.359
PCB 133 (BZ)	37:56	691816	138561	0.768	50.00	48.407308	96.81	48.407308		0.332
PCB 165 (BZ)	38:20	885015	180368	0.993	50.00	47.926196	95.85	47.926196		0.257
PCB 146 (BZ)	38:33	780979	153543	0.874	50.00	48.058734	96.12	48.058734		0.292
PCB 161 (BZ)	38:41	996669	200828	1.090	50.00	49.176186	98.35	49.176186		0.234
PCB 153 (BZ)	39:11	1955821	319739	1.068	100.0	98.414387	98.41	98.414387	C	0.239
PCB 168 (BZ)		1955821		1.068	100.0	98.414387	98.41	98.414387	C153	0.239
PCB 141 (BZ)	39:27	698422	136139	0.756	50.00	49.684064	99.37	49.684064		0.338
PCB 130 (BZ)	39:53	623334	128026	0.708	50.00	47.304871	94.61	47.304871		0.360
PCB 137 (BZ)	40:03	765039	152852	0.835	50.00	49.254295	98.51	49.254295		0.305
PCB 164 (BZ)	40:14	933255	181249	1.033	50.00	48.564048	97.13	48.564048		0.247
PCB 138 (BZ)	40:31	3322441	355320	0.922	200.0	193.733722	96.87	193.733722	C129	0.277

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.d	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 163 (BZ)		3322441		0.922	200.0	193.733722	96.87	193.733722	C129	0.277
PCB 129 (BZ)		3322441		0.922	200.0	193.733722	96.87	193.733722	C	0.277
PCB 160 (BZ)		3322441		0.922	200.0	193.733722	96.87	193.733722	C129	0.277
PCB 158 (BZ)	40:52	1075519	217596	1.191	50.00	48.543528	97.09	48.543528		0.214
PCB 166 (BZ)	41:42	997177	197696	1.102	50.00	48.641808	97.28	48.641808		0.231
PCB 128 (BZ)	41:52	696420	128164	0.769	50.00	48.699430	97.40	48.699430		0.332
PCB 159 (BZ)	42:39	969587	184077	1.079	50.00	48.302454	96.60	48.302454		0.236
PCB 162 (BZ)	42:57	964669	193579	1.079	50.00	48.072707	96.15	48.072707		0.236
PCB 167 (BZ)	43:26	1021767	202122	1.150	50.00	46.557138	93.11	46.557138		0.166
PCB 156 (BZ)	44:43	2058303	206396	1.151	100.0	94.879119	94.88	94.879119	C	0.304
PCB 157 (BZ)		2058303		1.151		94.879119		94.879119	C156	0.304
PCB 169 (BZ)	47:52	1034002	192181	1.337	50.00	43.914550	87.83	43.914550		0.158
Total Heptachlorobiphenyl		17958914	3020632			1117.78486		1117.78486		3.89
13C12-PCB 188	37:46	1867934	384513	1.238	100.0	105.484089	105.48	105.484089		0.0709
13C12-PCB 178	40:51	585888	118209	0.863	50.00	47.462603	94.93	47.462603	E	0.102
13C12-PCB 180	45:54	1430230	284947	1.000	100.0	100.000000	100.00	100.000000		0.0877
13C12-PCB 170	47:15	1182507	232932	0.813	100.0	101.637399	101.64	101.637399		0.108
13C12-PCB 189	50:17	1994959	382937	1.620	100.0	100.861553	100.86	100.861553		0.0661
PCB 188 (BZ)	37:47	921336	187222	1.071	50.00	46.069851	92.14	46.069851		0.136
PCB 179 (BZ)	38:16	849403	175377	1.200	50.00	46.414938	92.83	46.414938		0.151
PCB 184 (BZ)	38:38	839347	165334	1.178	50.00	46.704139	93.41	46.704139		0.154
PCB 176 (BZ)	39:07	910502	186786	1.252	50.00	47.682668	95.37	47.682668		0.145
PCB 186 (BZ)	39:37	866638	172071	1.214	50.00	46.791762	93.58	46.791762		0.149
PCB 178 (BZ)	40:52	606586	123705	0.889	50.00	44.719067	89.44	44.719067		0.204
PCB 175 (BZ)	41:29	642723	126893	0.920	50.00	45.798753	91.60	45.798753		0.197
PCB 187 (BZ)	41:44	720882	151942	1.009	50.00	46.850728	93.70	46.850728		0.180
PCB 182 (BZ)	41:55	719351	147078	0.972	50.00	48.527148	97.05	48.527148		0.187
PCB 183 (BZ)	42:20	681875	143769	0.946	50.00	47.250471	94.50	47.250471		0.192
PCB 185 (BZ)	42:31	632453	129553	0.919	50.00	45.125692	90.25	45.125692		0.197
PCB 174 (BZ)	42:43	651506	127833	0.924	50.00	46.226684	92.45	46.226684		0.196
PCB 177 (BZ)	43:08	610606	122623	0.880	50.00	45.518761	91.04	45.518761		0.206
PCB 181 (BZ)	43:27	674284	134205	0.975	50.00	45.354541	90.71	45.354541		0.186
PCB 171 (BZ)		1186908		0.835	100.0	93.192291	93.19	93.192291	C	0.217
PCB 173 (BZ)	43:44	1186908	227461	0.835	100.0	93.192291	93.19	93.192291	C171	0.217
PCB 172 (BZ)	45:17	592074	118900	0.838	50.00	46.312044	92.62	46.312044		0.216
PCB 192 (BZ)	45:33	785774	153047	1.147	50.00	44.904798	89.81	44.904798		0.158
PCB 193 (BZ)	45:54	1629642	258327	1.134	100.0	94.219586	94.22	94.219586	C180	0.160
PCB 180 (BZ)		1629642		1.134	100.0	94.219586	94.22	94.219586	C	0.160
PCB 191 (BZ)	46:16	862801	166546	1.228	50.00	46.075099	92.15	46.075099		0.148
PCB 170 (BZ)	47:16	594301	116356	1.058	50.00	47.520369	95.04	47.520369		0.227
PCB 190 (BZ)	47:45	917679	166713	1.254	50.00	47.997262	95.99	47.997262		0.145
PCB 189 (BZ)	50:19	1062243	204679	1.097	50.00	48.528206	97.06	48.528206		0.133
Total Octachlorobiphenyl		8215832	1549708			566.272215		566.272215		1.16
13C12-PCB 202	43:07	1566705	319457	0.994	100.0	110.227293	110.23	110.227293		0.0574
13C12-PCB 194	52:20	1220593	233271	1.000	100.0	100.000000	100.00	100.000000		0.0697
13C12-PCB 205	52:48	1733325	346017	1.407	100.0	100.946679	100.95	100.946679		0.0495
PCB 202 (BZ)	43:09	735886	145320	0.993	50.00	47.315043	94.63	47.315043		0.0978
PCB 200 (BZ)/201 (IUPAC)	44:02	800402	161622	1.087	50.00	47.000199	94.00	47.000199		0.0893
PCB 204 (BZ)	44:40	747653	153373	1.033	50.00	46.183842	92.37	46.183842		0.0939

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.d	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:04	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 197 (BZ)	44:55	790449	157170	1.061	50.00	47.536228	95.07	47.536228		0.0914
PCB 199 (BZ)/200 (IUPAC)	45:08	773862	154730	1.031	50.00	47.914237	95.83	47.914237		0.0941
PCB 198 (BZ)	47:50	1103935	133405	0.761	100.0	92.615091	92.62	92.615091	C	0.128
PCB 201 (BZ)/199 (IUPAC)		1103935		0.761	100.0	92.615091	92.62	92.615091	C198	0.128
PCB 196 (BZ)	48:29	538757	105315	0.752	50.00	45.722025	91.44	45.722025		0.129
PCB 203 (BZ)	48:41	595187	117925	0.856	50.00	44.381036	88.76	44.381036		0.113
PCB 195 (BZ)	50:05	629203	124344	0.723	50.00	50.240428	100.48	50.240428		0.124
PCB 194 (BZ)	52:21	674582	130934	0.795	50.00	48.961078	97.92	48.961078		0.113
PCB 205 (BZ)	52:49	825916	165570	0.984	50.00	48.403010	96.81	48.403010		0.0910
Total Nonachlorobiphenyl		2144167	422965			142.329730		142.329730		0.226
13C12-PCB 208	49:42	1631098	325759	1.161	100.0	115.093113	115.09	115.093113		0.0729
13C12-PCB 206	54:28	1055106	206340	0.823	100.0	105.075753	105.08	105.075753		0.103
PCB 208 (BZ)	49:43	780352	152984	1.026	50.00	46.616488	93.23	46.616488		0.0651
PCB 207 (BZ)	50:38	803605	161217	1.264	50.00	47.334273	94.67	47.334273		0.0647
PCB 206 (BZ)	54:30	560210	108764	1.097	50.00	48.378968	96.76	48.378968		0.0960
13C12-PCB 209	56:02	1319874	244857	0.930	100.0	116.260556	116.26	116.260556		0.0899
PCB 209 (BZ)	56:03	662467	125582	1.006	50.00	49.906612	99.81	49.906612		0.0924

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IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					**188.0393**	**190.0363**	**188.0393**	**190.0363**	**2.66-3.60**		
	Noise	00:00	00:00	0	173	160	69	64	1.08 *	/	
	PCB 1 (BZ)	12:19	12:20	-1	1320479	422166	525570	164203	3.13	AVV/AVV	
	PCB 2 (BZ)	14:21	14:23	-2	1160378	364057	381012	117724	3.19	ABV/ABV	
	PCB 3 (BZ)	14:33	14:33	0	1236922	397841	370272	125805	3.11	AVB/AVB	
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	220	158	88	63	1.40 *	/	
	13C12-PCB 1	12:18	12:19	-1	2449383	760545	931751	301920	3.22	AVV/AVV	
	13C12-PCB 3	14:32	14:32	0	2390386	710325	738870	229897	3.37	ABV/ABV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	275	555	110	222	0.50 *	/	
	PCB 4 (BZ)	14:50	14:50	0	543058	358644	171486	108694	1.51	ABV/ABV	
	PCB 10 (BZ)	14:59	15:01	-2	823788	518518	252299	156572	1.59	AVV/AVV	
	PCB 9 (BZ)	16:47	16:48	-1	859843	537246	253250	157787	1.60	ABV/ABV	
	PCB 7 (BZ)	16:56	16:57	-1	878142	531177	228930	138439	1.65	AVV/AVV	
	PCB 6 (BZ)	17:14	17:14	0	849391	521405	229091	137306	1.63	AVV/AVV	
	PCB 5 (BZ)	17:33	17:33	0	742460	461929	209173	127965	1.61	AVV/AVV	
	PCB 8 (BZ)	17:41	17:41	0	923367	565684	230770	141069	1.63	AVB/AVV	
	PCB 14 (BZ)	19:15	19:16	-1	957373	610532	237367	144430	1.57	ABV/ABV	
	PCB 11 (BZ)	20:10	20:10	0	814630	504855	185927	109546	1.61	ABV/ABV	
	PCB 13 (BZ)	20:30	20:26	4	1603068	1016412	300224	191287	1.58	AVV/AVV	
	PCB 15 (BZ)	20:50	20:47	3	869368	530984	194990	123120	1.64	AVB/AVV	
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	180	180	72	72	1.00 *	/	
	13C12-PCB 4	14:49	14:49	0	988476	611568	291552	183086	1.62	ABV/ABV	
	13C12-PCB 9	16:46	16:46	0	1558974	957192	423736	264967	1.63	ABV/ABV	
	13C12-PCB 8	17:39	17:39	0	783708	489446	195756	121168	1.60	AVV/AVV	
	13C12-PCB 15	20:49	20:47	2	1547715	963383	338109	216919	1.61	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	283	250	113	100	1.13	/	
	PCB 19 (BZ)	18:02	18:02	0	355851	333124	100228	93247	1.07	ABV/ABV	
	PCB 30 (BZ)	19:42	19:45	-3	510700	481188	126665	124511	1.06	ABV/ABV	D
	PCB 18 (BZ)	19:52	19:52	0	359346	339217	88945	85363	1.06	AVB/AVV	
	PCB 17 (BZ)	20:16	20:16	0	377350	355431	90699	88372	1.06	ABV/ABV	
	PCB 27 (BZ)	20:31	20:31	0	514674	489253	136986	133242	1.05	AVV/AVV	
	PCB 24 (BZ)	20:38	20:37	1	520300	493669	118758	112913	1.05	AVV/AVV	
	PCB 16 (BZ)	20:49	20:47	2	333173	305093	76368	71237	1.09	AVB/AVB	
	PCB 32 (BZ)	21:16	21:17	-1	570166	536131	143708	126052	1.06	ABV/ABV	D
	PCB 34 (BZ)	22:29	22:30	-1	648090	658755	152333	156729	0.98	ABV/ABV	D
	PCB 23 (BZ)	22:37	22:37	0	698263	711621	160667	158951	0.98	AVB/AVB	D
	PCB 29 (BZ)	22:58	22:57	1	1383993	1418113	273702	278293	0.98	ABV/ABV	
	PCB 25 (BZ)	23:12	23:11	1	752802	773266	155874	157138	0.97	AVV/AVV	
	PCB 31 (BZ)	23:31	23:32	-1	698074	723913	164348	164358	0.96	AVV/AVV	
	PCB 28 (BZ)	23:48	23:48	0	1321554	1358541	159295	165405	0.97	AVV/AVV	

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	PCB 33 (BZ)	24:06	24:06	0	1497435	1522259	165384	173168	0.98	AVV/AVV	
	PCB 22 (BZ)	24:32	24:30	2	653251	657518	142964	142311	0.99	AVB/AVB	
	PCB 36 (BZ)	25:59	26:00	-1	683905	713394	140032	143741	0.96	AVV/AVV	
	PCB 39 (BZ)	26:23	26:21	2	692404	687356	147608	145686	1.01	AVV/AVV	
	PCB 38 (BZ)	26:57	26:57	0	635702	638236	131891	131539	1.00	AVV/AVV	
	PCB 35 (BZ)	27:29	27:28	1	641457	639494	120784	123711	1.00	AVV/AVV	
	PCB 37 (BZ)	27:55	27:53	2	647431	645429	135413	130858	1.00	AVV/AVV	
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	370	300	148	120	1.23 *	/	
	13C12-PCB 19	18:01	18:00	1	599933	539156	159838	147832	1.11	AVV/AVV	
	13C12-PCB 32	21:15	21:15	0	970841	894862	241186	220051	1.08	ABV/ABV	
	13C12-PCB 31	23:30	23:30	0	1427144	1322815	320076	301073	1.08	ABV/ABV	
	13C12-PCB 28	23:47	23:47	0	703313	682724	153524	145485	1.03	AVV/AVV	
	13C12-PCB 37	27:54	27:51	3	1240539	1156584	245803	234384	1.07	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	258	340	103	136	0.76	/	
	PCB 54 (BZ)	21:11	21:09	2	299514	368686	72036	91816	0.81	ABV/ABV	
	PCB 50 (BZ)	23:14	23:16	-2	764013	990425	92850	125214	0.77	ABV/ABV	
	PCB 45 (BZ)	24:01	23:59	2	732124	947240	154518	199161	0.77	ABV/AVV	
	PCB 46 (BZ)	24:21	24:20	1	296153	386105	63500	85000	0.77	AVV/AVV	
	PCB 52 (BZ)	25:39	25:39	0	348536	447633	82909	111691	0.78	ABV/ABV	D
	PCB 73 (BZ)	25:47	25:46	1	783477	1005883	112523	140192	0.78	AVV/AVV	D
	PCB 69 (BZ)	26:00	26:01	-1	442200	585751	103871	135021	0.75	AVV/AVV	D
	PCB 49 (BZ)	26:08	26:08	0	419651	526308	85453	110151	0.80	AVB/AVB	
	PCB 48 (BZ)	26:24	26:24	0	343804	428429	74681	96189	0.80	ABV/ABV	D
	PCB 65 (BZ)	26:38	26:37	1	1198393	1523146	169277	218189	0.79	AVV/AVV	
	PCB 62 (BZ)	26:54	26:53	1	1513832	1939895	178649	229282	0.78	AVV/AVV	
	PCB 42 (BZ)	27:13	27:12	1	349015	449360	73444	98301	0.78	AVB/AVB	D
	PCB 41 (BZ)	27:38	27:37	1	261411	328760	60244	81079	0.80	ABV/ABV	
	PCB 71 (BZ)	27:44	27:42	2	778142	1010417	111257	151845	0.77	AVV/AVV	
	PCB 64 (BZ)	27:55	27:54	1	546202	711774	114387	155584	0.77	AVV/AVV	D
	PCB 72 (BZ)	28:39	28:42	-3	481652	608482	107885	137623	0.79	ABV/ABV	D
	PCB 68 (BZ)	28:56	28:57	-1	509059	653020	113286	139514	0.78	AVV/AVV	
	PCB 57 (BZ)	29:23	29:24	-1	455061	562300	97202	118774	0.81	ABV/ABV	
	PCB 58 (BZ)	29:40	29:40	0	455651	584983	98931	128008	0.78	AVV/AVV	
	PCB 67 (BZ)	29:47	29:47	0	493708	647843	99060	128857	0.76	AVV/AVV	
	PCB 63 (BZ)	30:03	30:04	-1	494403	633622	97269	131045	0.78	AVV/AVV	
	PCB 61 (BZ)	30:18	30:17	1	413388	523628	88790	113941	0.79	AVV/AVV	
	PCB 70 (BZ)	30:27	30:25	2	1538746	1968594	293806	383491	0.78	AVB/AVB	
	PCB 66 (BZ)	30:46	30:45	1	461763	587668	95632	122839	0.79	ABV/ABV	
	PCB 55 (BZ)	30:59	30:57	2	421924	550381	85644	113691	0.77	AVV/AVV	
	PCB 56 (BZ)	31:31	31:28	3	436318	565217	93906	115891	0.77	ABV/ABV	
	PCB 60 (BZ)	31:42	31:40	2	445827	578746	86061	115838	0.77	AVV/AVV	
	PCB 80 (BZ)	31:56	31:56	0	543903	710267	105801	139064	0.77	AVV/AVV	

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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

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Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	PCB 79 (BZ)	33:34	33:34	0	506563	636390	97700	123707	0.80	ABV/ABV	
	PCB 78 (BZ)	34:09	34:08	1	419087	571009	78641	105021	0.73	AVV/ABV	
	PCB 81 (BZ)	34:38	34:35	3	459229	607220	91385	114239	0.76	AVV/AVV	
	PCB 77 (BZ)	35:14	35:10	4	446775	563459	84673	104065	0.79	AVV/AVV	
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	140	135	56	54	1.04 *	/	
	13C12-PCB 54	21:10	21:08	2	475371	587040	125178	146848	0.81	ABV/ABV	
	13C12-PCB 52	25:38	25:38	0	653758	838448	144640	190939	0.78	ABV/ABV	
	13C12-PCB 79	33:32	33:32	0	410753	518336	77483	96883	0.79	ABV/ABV	
	13C12-PCB 81	34:37	34:33	4	776515	992687	146733	186680	0.78	ABV/ABV	
	13C12-PCB 77	35:13	35:09	4	777530	999005	146758	186641	0.78	ABV/AVV	
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	333	275	133	110	1.21 *	/	
	PCB 104 (BZ)	26:34	26:35	-1	583667	359612	134627	80087	1.62	ABV/ABV	
	PCB 96 (BZ)	27:05	27:04	1	513262	317932	107329	67475	1.61	AVV/AVB	
	PCB 103 (BZ)	28:48	28:52	-4	425076	262251	86979	56317	1.62	ABV/ABV	D
	PCB 94 (BZ)	29:07	29:08	-1	357110	225592	73079	46855	1.58	AVB/AVV	
	PCB 95 (BZ)	29:38	29:38	0	856659	548486	163231	97285	1.56	ABV/ABV	
	PCB 93 (BZ)	29:48	29:47	1	385488	228081	76937	47689	1.69	AVV/AVV	M
	PCB 102 (BZ)	29:55	29:55	0	824095	504962	113641	67820	1.63	AVB/AVB	M
	PCB 88 (BZ)	30:19	30:19	0	337745	217273	72380	46454	1.55	ABV/ABV	
	PCB 91 (BZ)	30:26	30:26	0	433443	269659	93904	58523	1.61	AVB/AVV	
	PCB 84 (BZ)	30:45	30:43	2	317624	205181	70158	42267	1.55	ABB/AVB	
	PCB 89 (BZ)	31:13	31:11	2	348221	215506	75383	44741	1.62	ABV/ABV	
	PCB 121 (BZ)	31:21	31:25	-4	544523	348576	114167	72126	1.56	AVV/AVV	M
	PCB 92 (BZ)	31:51	31:53	-2	384864	240095	78525	49240	1.60	ABV/ABV	
	PCB 113 (BZ)	32:25	32:25	0	1448612	908740	269846	168838	1.59	ABV/ABV	
	PCB 83 (BZ)	32:58	32:59	-1	769883	471170	159718	92961	1.63	ABV/ABV	
	PCB 112 (BZ)	33:09	33:09	0	524627	339575	108409	67221	1.54	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	33:28	33:29	-1	2842320	1779653	230817	145854	1.60	ABB/ABB	
	PCB 117 (BZ)	34:09	34:09	0	1391555	858301	118405	74353	1.62	ABV/ABV	
	PCB 110 (BZ)	34:29	34:28	1	1115778	713477	211276	133704	1.56	AVB/AVB	
	PCB 82 (BZ)	34:53	34:50	3	283198	179094	61444	40244	1.58	ABV/ABV	
	PCB 111 (BZ)	35:02	35:04	-2	546098	349274	108527	69974	1.56	AVV/AVV	D
	PCB 120 (BZ)	35:29	35:32	-3	563161	357141	117668	72908	1.58	AVB/AVV	D
	PCB 108 (BZ)/107 (IUPAC	36:43	36:44	-1	1272678	811534	253490	160946	1.57	ABV/ABV	
	PCB 107 (BZ)/109 (IUPAC	36:57	36:58	-1	616542	398840	121532	81328	1.55	AVV/AVV	D
	PCB 123 (BZ)	37:05	37:03	2	653432	418902	134501	83060	1.56	AVV/AVV	
	PCB 106 (BZ)	37:12	37:12	0	594749	376409	120544	76766	1.58	AVV/AVV	
	PCB 118 (BZ)	37:24	37:24	0	679746	424105	131300	84144	1.60	AVV/AVV	
	PCB 122 (BZ)	37:49	37:48	1	587506	373325	121135	74158	1.57	ABV/ABV	
	PCB 114 (BZ)	37:57	37:56	1	689501	437348	133807	84177	1.58	AVB/AVB	
	PCB 105 (BZ)	38:41	38:39	2	652613	416959	124505	81693	1.57	ABV/ABB	
	PCB 127 (BZ)	40:01	40:01	0	643566	414532	125509	81882	1.55	AVV/AVV	D

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IsoCalc

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Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	PCB 126 (BZ)	41:44	41:40	4	645310	421039	121212	78317	1.53	ABV/ABV	M
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	173	138	69	55	1.25 *	/	
	13C12-PCB 104	26:33	26:33	0	1080526	672222	237419	153091	1.61	ABV/ABV	
	13C12-PCB 95	29:36	29:35	1	364474	229029	80586	51756	1.59	ABV/ABV	
	13C12-PCB 101	32:25	32:25	0	784653	490828	158608	100665	1.60	ABV/ABV	
	13C12-PCB 111	35:01	35:02	-1	487698	300084	98004	60151	1.63	ABV/ABV	
	13C12-PCB 123	37:04	37:03	1	1235227	752835	254463	153331	1.64	ABV/ABV	
	13C12-PCB 118	37:23	37:22	1	1319844	824487	252659	165020	1.60	AVV/AVV	
	13C12-PCB 114	37:55	37:54	1	1218459	749492	232112	143956	1.63	AVV/AVV	
	13C12-PCB 105	38:40	38:37	3	1192968	743357	236539	146779	1.60	ABV/ABV	
	13C12-PCB 127	40:00	40:00	0	1243918	772703	249016	150721	1.61	ABV/ABV	
	13C12-PCB 126	41:42	41:39	3	1275194	811693	238959	154259	1.57	ABV/ABV	
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	Noise	00:00	00:00	0	370	333	148	133	1.11	/	
	PCB 155 (BZ)	32:04	32:07	-3	492772	381947	107095	78898	1.29	ABB/ABV	
	PCB 152 (BZ)	32:28	32:29	-1	446565	357969	95446	77069	1.25	ABV/ABV	
	PCB 150 (BZ)	32:34	32:35	-1	478470	372780	101333	77057	1.28	AVB/AVB	
	PCB 136 (BZ)	33:05	33:04	1	433581	334108	91522	68225	1.30	ABV/ABV	
	PCB 145 (BZ)	33:16	33:17	-1	453099	360002	95680	74240	1.26	AVV/AVV	
	PCB 148 (BZ)	34:38	34:41	-3	322194	261972	68119	56565	1.23	ABV/ABV	
	PCB 135 (BZ)	35:26	35:25	1	1030838	809557	118989	96923	1.27	ABV/ABV	
	PCB 144 (BZ)	35:53	35:54	-1	338395	254046	69162	53427	1.33	AVB/ABB	
	PCB 147 (BZ)	36:15	36:15	0	887759	714767	142136	118245	1.24	ABV/ABV	
	PCB 143 (BZ)	36:35	36:37	-2	714601	562065	84237	65025	1.27	AVV/AVV	
	PCB 139 (BZ)	36:49	36:49	0	880806	683075	129475	100838	1.29	AVV/AVV	
	PCB 131 (BZ)	37:06	37:04	2	355553	282716	72534	57508	1.26	AVV/AVV	
	PCB 142 (BZ)	37:14	37:14	0	353384	277146	71298	56444	1.28	AVB/AVB	
	PCB 132 (BZ)	37:37	37:36	1	352355	287075	70144	56745	1.23	ABB/ABB	
	PCB 133 (BZ)	37:56	37:58	-2	384050	307766	77843	60718	1.25	ABB/ABB	
	PCB 165 (BZ)	38:20	38:21	-1	498375	386640	102032	78336	1.29	ABV/ABV	
	PCB 146 (BZ)	38:33	38:35	-2	437178	343801	85970	67573	1.27	AVV/AVV	
	PCB 161 (BZ)	38:41	38:44	-3	557140	439529	113036	87792	1.27	AVB/AVB	
	PCB 153 (BZ)	39:11	39:13	-2	1090527	865294	179642	140097	1.26	ABV/ABV	
	PCB 141 (BZ)	39:27	39:27	0	395263	303159	79207	56932	1.30	AVV/AVV	
	PCB 130 (BZ)	39:53	39:53	0	346524	276810	74067	53959	1.25	ABV/ABV	
	PCB 137 (BZ)	40:03	40:03	0	424712	340327	85489	67363	1.25	AVV/AVV	
	PCB 164 (BZ)	40:14	40:12	2	523564	409691	102963	78286	1.28	AVV/AVV	
	PCB 138 (BZ)	40:31	40:30	1	1871013	1451428	203602	151718	1.29	AVV/AVV	
	PCB 158 (BZ)	40:52	40:51	1	606432	469087	123752	93844	1.29	AVB/AVB	
	PCB 166 (BZ)	41:42	41:42	0	560693	436484	111734	85962	1.28	ABV/ABV	
	PCB 128 (BZ)	41:52	41:49	3	383391	313029	73438	54726	1.22	AVB/AVV	
	PCB 159 (BZ)	42:39	42:41	-2	543510	426077	102054	82023	1.28	ABV/ABV	
	PCB 162 (BZ)	42:57	42:57	0	541417	423252	108998	84581	1.28	AVV/AVV	

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Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	PCB 167 (BZ)	43:26	43:27	-1	567753	454014	110788	91334	1.25	ABB/ABB	
	PCB 156 (BZ)	44:43	44:37	6	1154539	903764	115781	90615	1.28	ABB/ABB	DM
	PCB 169 (BZ)	47:52	47:49	3	577909	456093	109484	82697	1.27	ABV/ABV	
372					**371.8817**	**373.8788**	**371.8817**	**373.8788**	**1.05-1.43**		
	Noise	00:00	00:00	0	148	125	59	50	1.18	/	
	13C12-PCB 155	32:01	32:06	-5	928799	730405	196905	157181	1.27	ABV/ABV	M
	13C12-PCB 153	39:08	39:10	-2	417978	324770	85926	64743	1.29	ABV/ABV	
	13C12-PCB 138	40:28	40:28	0	848160	657099	165997	131279	1.29	ABV/ABV	
	13C12-PCB 167	43:25	43:24	1	1068873	839133	200751	166955	1.27	ABV/AVV	
	13C12-PCB 156	44:42	44:34	8	2125949	1644867	229521	172260	1.29	ABV/ABV	M
	13C12-PCB 169	47:51	47:48	3	995514	765590	184367	147630	1.30	ABV/ABV	
394					**393.8025**	**395.7995**	**393.8025**	**395.7995**	**0.89-1.21**		
	Noise	00:00	00:00	0	300	260	120	104	1.15	/	
	PCB 188 (BZ)	37:47	37:49	-2	465149	456187	95420	91802	1.02	ABV/ABV	
	PCB 179 (BZ)	38:16	38:17	-1	431700	417703	91673	83704	1.03	AVV/AVV	
	PCB 184 (BZ)	38:38	38:41	-3	420657	418690	82124	83210	1.00	AVV/AVV	
	PCB 176 (BZ)	39:07	39:09	-2	461960	448542	93503	93283	1.03	ABV/ABV	
	PCB 186 (BZ)	39:37	39:36	1	441690	424948	89177	82894	1.04	AVB/AVV	D
	PCB 178 (BZ)	40:52	40:54	-2	316301	290285	63532	60173	1.09	ABV/ABB	
	PCB 175 (BZ)	41:29	41:31	-2	329676	313047	63004	63889	1.05	ABV/ABV	
	PCB 187 (BZ)	41:44	41:47	-3	366647	354235	75104	76838	1.04	AVV/AVV	
	PCB 182 (BZ)	41:55	41:58	-3	369031	350320	77399	69679	1.05	AVB/AVB	
	PCB 183 (BZ)	42:20	42:23	-3	347320	334555	75068	68701	1.04	ABV/ABV	
	PCB 185 (BZ)	42:31	42:32	-1	321583	310870	68052	61501	1.03	AVV/AVV	
	PCB 174 (BZ)	42:43	42:42	1	335387	316119	66282	61551	1.06	AVB/AVV	
	PCB 177 (BZ)	43:08	43:08	0	307083	303523	63760	58863	1.01	ABB/ABB	
	PCB 181 (BZ)	43:27	43:28	-1	347629	326655	69382	64823	1.06	ABV/ABV	
	PCB 173 (BZ)	43:44	43:44	0	603642	583266	115241	112220	1.03	AVB/AVB	
	PCB 172 (BZ)	45:17	45:19	-2	304508	287566	61830	57070	1.06	ABV/ABV	
	PCB 192 (BZ)	45:33	45:33	0	409424	376350	79254	73793	1.09	AVV/AVV	
	PCB 193 (BZ)	45:54	45:52	2	835088	794554	133609	124718	1.05	AVV/AVV	
	PCB 191 (BZ)	46:16	46:18	-2	439109	423692	84232	82314	1.04	AVB/AVV	
	PCB 170 (BZ)	47:16	47:16	0	307490	286811	60216	56140	1.07	ABV/ABV	
	PCB 190 (BZ)	47:45	47:45	0	465171	452508	84884	81829	1.03	ABV/ABV	
	PCB 189 (BZ)	50:19	50:17	2	536220	526023	103179	101500	1.02	ABV/AVV	
406					**405.8428**	**407.8398**	**405.8428**	**407.8398**	**0.89-1.21**		
	Noise	00:00	00:00	0	135	115	54	46	1.17	/	
	13C12-PCB 188	37:46	37:48	-2	964857	903077	198417	186096	1.07	ABV/ABV	
	13C12-PCB 178	40:51	40:52	-1	297473	288415	59229	58980	1.03	ABV/ABB	
	13C12-PCB 180	45:54	45:54	0	731610	698620	147246	137701	1.05	ABV/ABV	
	13C12-PCB 170	47:15	47:14	1	608516	573991	120261	112671	1.06	ABV/ABV	
	13C12-PCB 189	50:17	50:15	2	1029391	965568	195390	187547	1.07	ABV/ABV	
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**		

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071012s1/a071012s1.	Prep Date		SDG No	
Analysis ID	99728	Prep Exp Date		Date Received	
Analysis Date	10/12/07 11:04	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

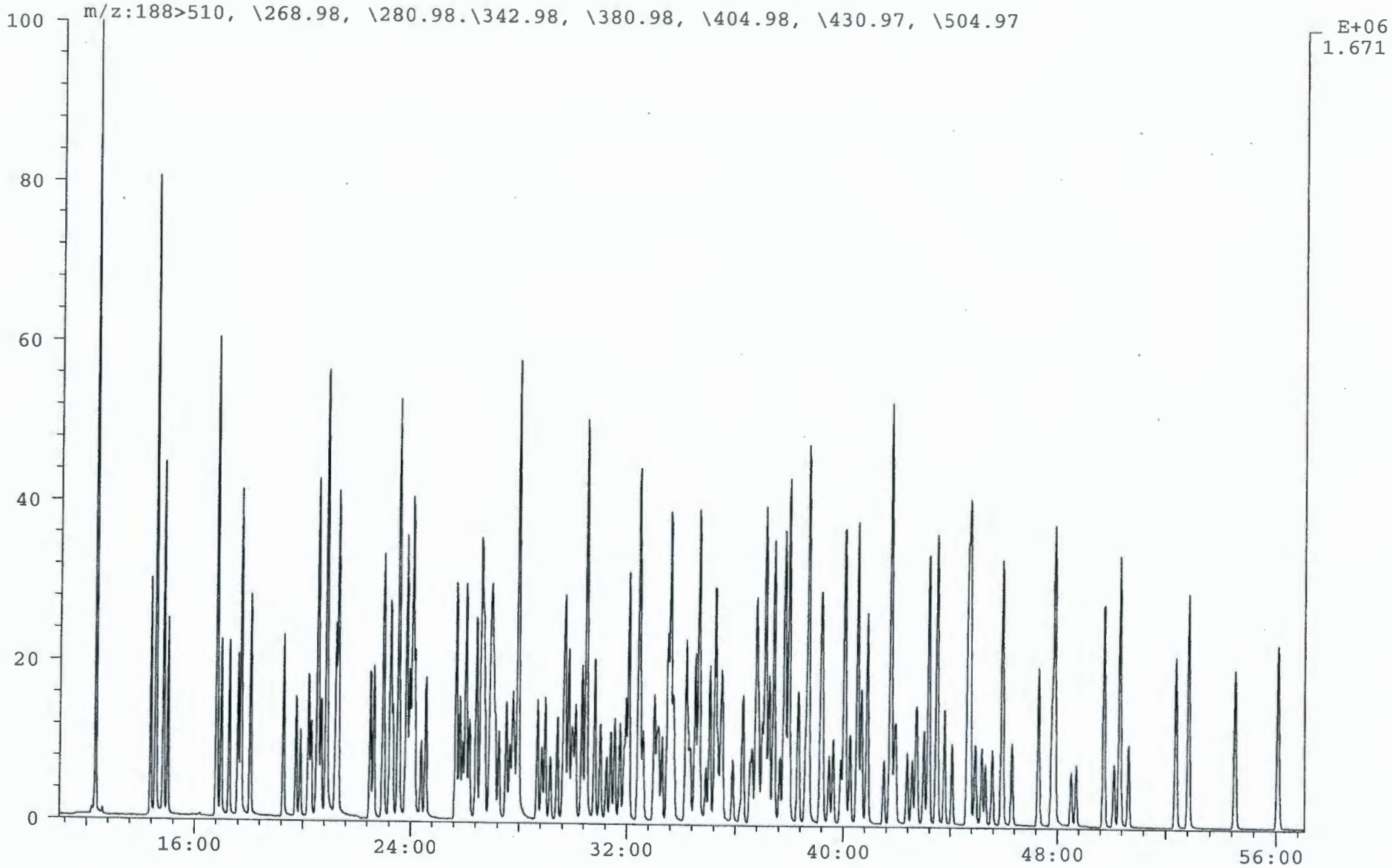
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**	
	Noise	00:00	00:00	0	158	153	63	61	1.03 *	/
	PCB 202 (BZ)	43:09	43:09	0	342453	393433	67388	77932	0.87	ABV/ABV
	PCB 200 (BZ)/201 (IUPAC	44:02	44:05	-3	371470	428932	74875	86747	0.87	ABB/ABV
	PCB 204 (BZ)	44:40	44:43	-3	354132	393521	73164	80209	0.90	ABV/ABV
	PCB 197 (BZ)	44:55	44:57	-2	365051	425398	71747	85423	0.86	AVV/AVV
	PCB 199 (BZ)/200 (IUPAC	45:08	45:09	-1	365621	408241	71725	83005	0.90	AVB/AVV
	PCB 198 (BZ)	47:50	47:48	2	521249	582686	61558	71847	0.89	ABV/ABV
	PCB 196 (BZ)	48:29	48:31	-2	253584	285173	50309	55006	0.89	ABV/ABV
	PCB 203 (BZ)	48:41	48:41	0	276169	319018	57100	60825	0.87	AVB/AVB
	PCB 195 (BZ)	50:05	50:02	3	299599	329604	59690	64654	0.91	ABV/ABV
	PCB 194 (BZ)	52:21	52:20	1	321733	352849	61967	68967	0.91	ABV/ABB
	PCB 205 (BZ)	52:49	52:48	1	388091	437825	78536	87034	0.89	ABV/ABV
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**	
	Noise	00:00	00:00	0	80	83	32	33	0.97	/
	13C12-PCB 202	43:07	43:08	-1	745937	820768	152875	166582	0.91	ABV/ABV
	13C12-PCB 194	52:20	52:19	1	576589	644004	109663	123608	0.90	ABV/ABV
	13C12-PCB 205	52:48	52:46	2	828813	904512	164769	181248	0.92	AVV/AVV
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**	
	Noise	00:00	00:00	0	98	120	39	48	0.81	/
	PCB 208 (BZ)	49:43	49:45	-2	339902	440450	66887	86097	0.77	ABV/ABV
	PCB 207 (BZ)	50:38	50:40	-2	350993	452612	69695	91522	0.78	ABV/ABV
	PCB 206 (BZ)	54:30	54:29	1	243548	316662	48937	59827	0.77	ABV/ABV
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**	
	Noise	00:00	00:00	0	105	93	42	37	1.14 *	/
	13C12-PCB 208	49:42	49:44	-2	712200	918898	141373	184386	0.78	ABV/ABV
	13C12-PCB 206	54:28	54:28	0	456970	598136	88270	118070	0.76	ABV/ABV
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**	
	Noise	00:00	00:00	0	103	125	41	50	0.82 *	/
	PCB 209 (BZ)	56:03	56:04	-1	267108	395359	52912	72670	0.68	ABV/ABV
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**	
	Noise	00:00	00:00	0	85	110	34	44	0.77	/
	13C12-PCB 209	56:02	56:03	-1	538206	781668	99949	144908	0.69	ABV/ABV

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comak limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: a071012s1 12-Oct-07 Elapse: 11:00.9 1
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2 > 2603 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

Initial Calib DCS 10-12-07
QCPMP 10-12-07



2661

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 142 700 uV

p 3.88 A -58.0 V

1.00 mA 70.8 V d s 2312 1553 l x 2475 y 2117

270 C s s s s s

271 C 2312 1721 2525 1977

0.94 mA -58.0 V

EI POS u electric

U(a) 4791 V U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	192.989	amu
Virt. Mass	(VMASS)	192.989	amu
Link Mass	(LMASS)	192.989	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR tune2 SAVE

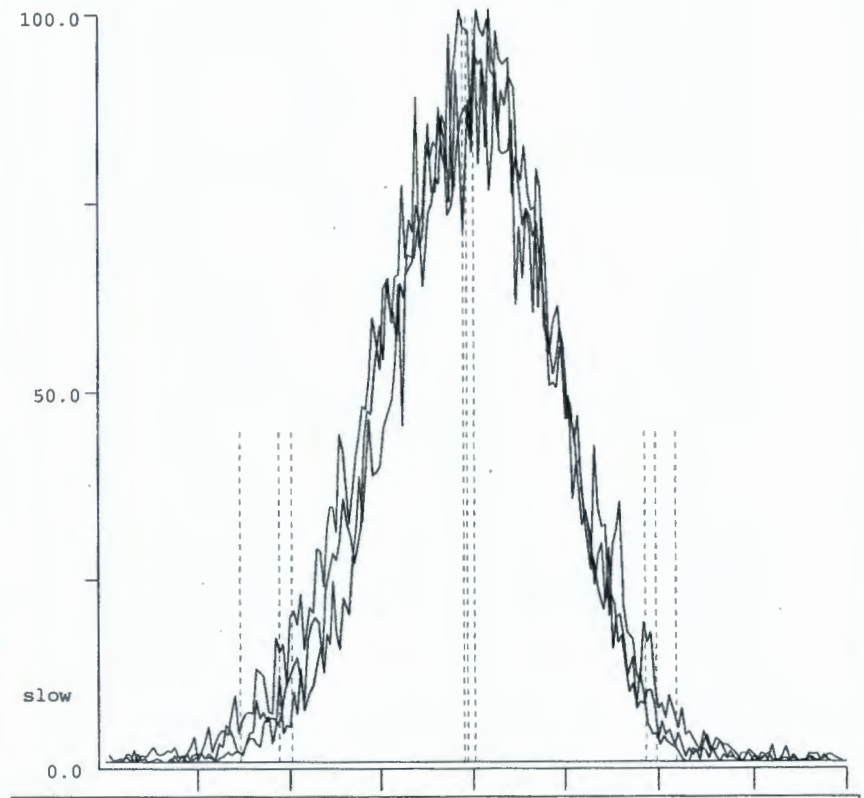
192.970 192.989 193.00

<> >< << >> ^ v C LOCK UNLK

TUNE:

Peak Register Display

Copy result to ULIST



REG 1/2: 230.985229 REG 1/3: 280.981582 REG 2/3: 280.982066

MASS :	192.98892	230.98535	280.98173
REF MASS :	192.98882	230.98563	280.98243
PEAK WIDTH [ppm]:	98.94817	99.45368	118.03169

Active Register: 2 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Fri Oct 12 11:00:17 2007 mat95 MAT 95

2662

-31.0 V

SCAN | AUTOTUNE | TUNE | R = 10 100 142 700 uV

p 3.88 A -58.0 V

1.00 mA 70.8 V | d | s | 2312 | 1553 | 2475 | 2117 | l | x | y

270 C | s | s | s | s | s

271 C | 2312 | 1721 | 2525 | 1977

0.90 mA -58.0 V

EI POS | u | electric

U(a) 4791 V | U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	192.989	amu
Virt. Mass	(VMASS)	192.989	amu
Link Mass	(LMASS)	192.989	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off | VS1 off | VS2 off | VV off | VS3 off

TUNE DESCRIPTOR tune2 | SAVE

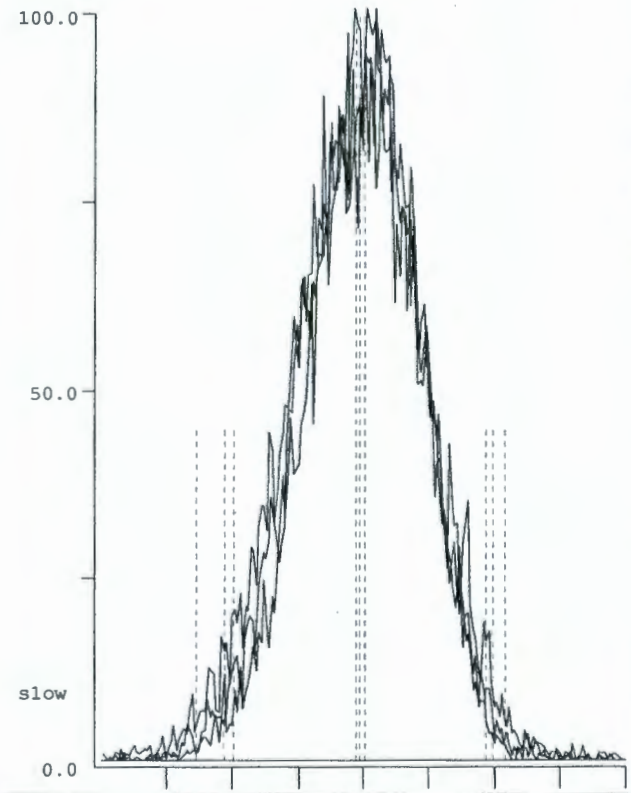
192.970 192.989 193.00

<> >< << >> ^ v C W LOCK UNLK

TUNE:

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1968840	1.4559475	1.2164483
PC+DELTA	1.1968840	1.4559475	1.2164483
PC+DELTA/RM	0.9999983	0.9999970	0.9999987
REF MASS	1.1968860	1.4559519	1.2164499

R	pm	192.98892
E	rm	192.98882
G	fm	192.96953
I	lm	193.00810
S	pc	7969171.94
T	pl	7969570.77
E	pr	7968782.23
R	bl	0.00
1	v	126193.00

R	pm	230.98535
E	rm	230.98563
G	fm	230.96256
I	lm	231.00874
S	pc	6658266.00
T	pl	6658608.46
E	pr	6657946.27
R	bl	0.00
2	v	338655.00

R	pm	280.98173
E	rm	280.98243
G	fm	280.95432
I	lm	281.01053
S	pc	5473529.92
T	pl	5473864.16
E	pr	5473218.11
R	bl	0.00
3	v	172227.00

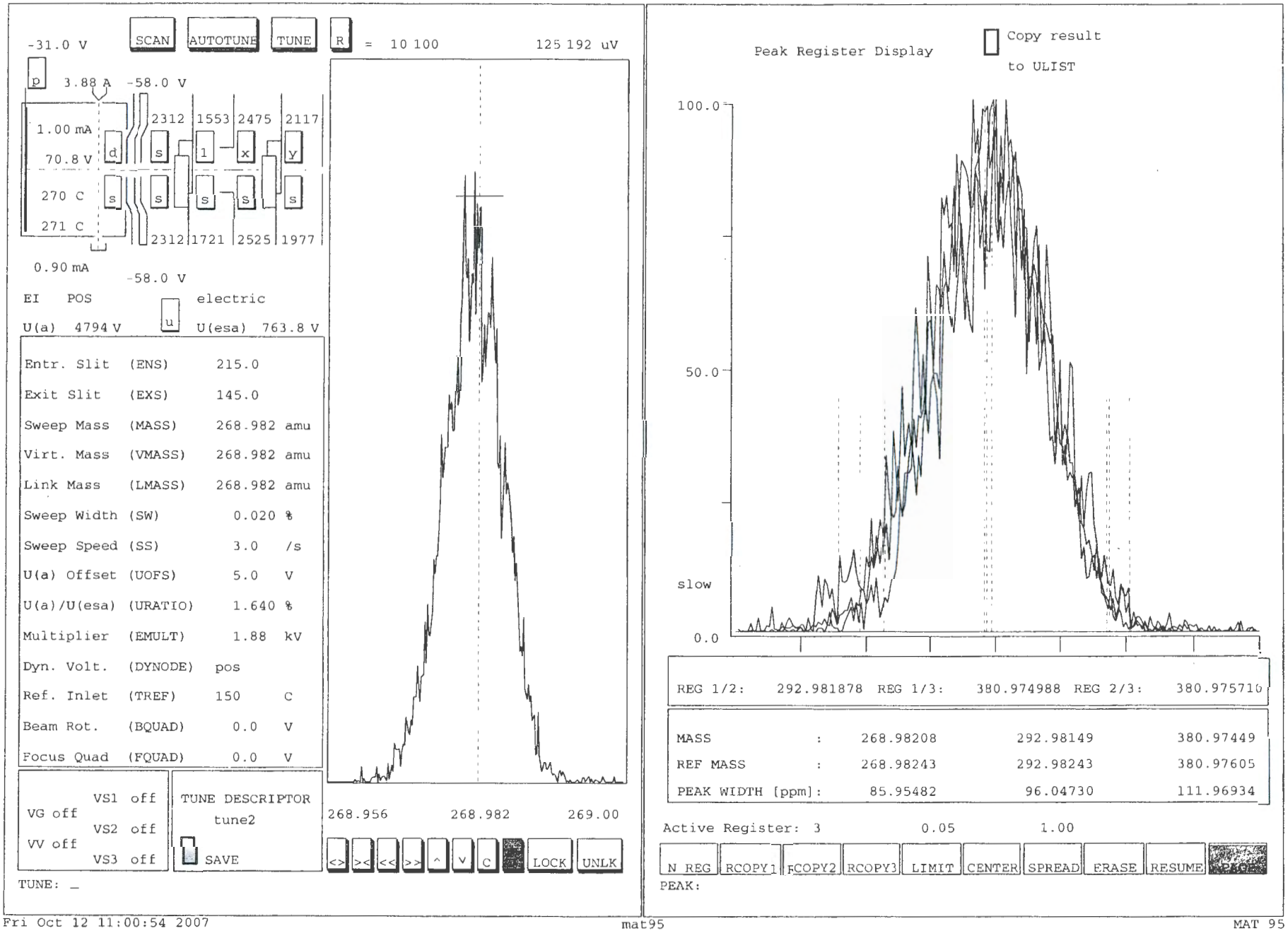
Active Register: 2 0.05 1.00

N REG | RCOPY1 | RCOPY2 | RCOPY3 | LIMIT | CENTER | SPREAD | ERASE | RESUME | PAGE

PEAK: _

Fri Oct 12 11:00:26 2007 mat95 MAT 95

2663


-31.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 100
125 192 uV
p
3.88 A
-58.0 V
1.00 mA
70.8 V
270 C
271 C
2312
1553
2475
2117
2312
1721
2525
1977
0.90 mA
-58.0 V
EI POS
electric
U(a) 4794 V
U(esa) 763.8 V
Entr. Slit (ENS) 215.0
Exit Slit (EXS) 145.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.640 %
Multiplier (EMULT) 1.88 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VS3 off
VV off
TUNE DESCRIPTOR
tune2
SAVE
268.956
268.982
269.00
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 292.981878 REG 1/3: 380.974988 REG 2/3: 380.975710
MASS : 268.98208 292.98149 380.97449
REF MASS : 268.98243 292.98243 380.97605
PEAK WIDTH [ppm]: 85.95482 96.04730 111.96934
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK:
Fri Oct 12 11:00:54 2007
mat95
MAT 95

2664

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 125 192 uV

p 3.88 A -58.0 V

1.00 mA 2312 1553 2475 2117

70.8 V d s l x y

270 C s s s s s

271 C 2312 1721 2525 1977

0.90 mA -58.0 V

EI POS electric

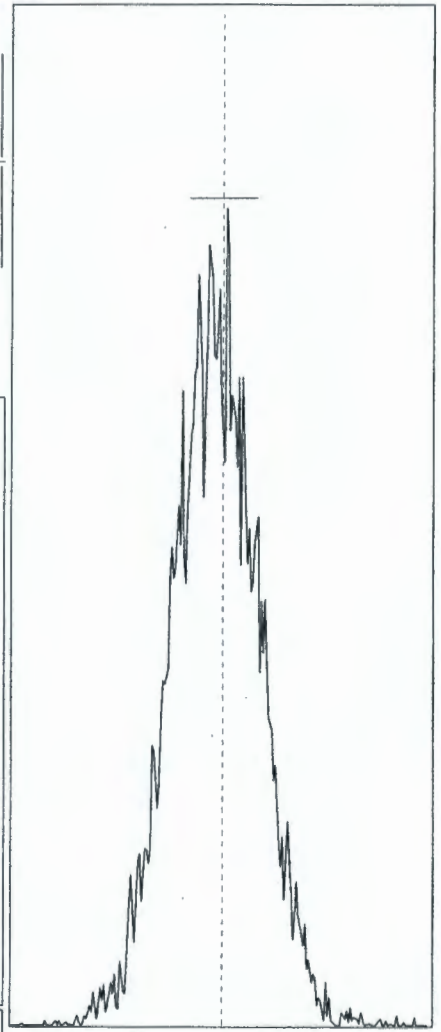
U(a) 4794 V u U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	268.982	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR tune2 SAVE

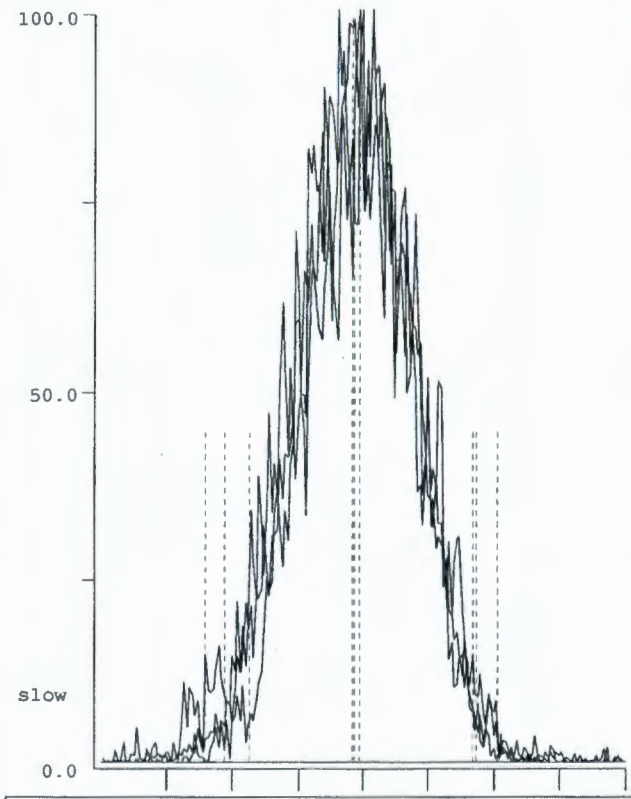
TUNE:



268.956 268.982 269.00

<> >> << >> ^ v C LOCK UNLK

Diagnostic Display Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0892231	1.4163564	1.3003364
PC+DELTA	1.0892231	1.4163564	1.3003364
PC+DELTA/RM	0.9999981	0.9999972	0.9999991
REF MASS	1.0892252	1.4163603	1.3003375

R	pm	268.98208
E	rm	268.98243
G	fm	268.95554
I	lm	269.00930
S	pc	7969186.50
T	pl	7969522.98
E	pr	7968837.99
R	bl	0.00
1	v	135945.00

R	pm	292.98149
E	rm	292.98243
G	fm	292.95311
I	lm	293.01173
S	pc	7316395.10
T	pl	7316756.30
E	pr	7316053.58
R	bl	0.00
2	v	245360.00

R	pm	380.97449
E	rm	380.97605
G	fm	380.93796
I	lm	381.01413
S	pc	5626540.44
T	pl	5626857.81
E	pr	5626227.81
R	bl	0.00
3	v	84278.00

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 139 335 uV

p 3.88 A -58.0 V

1.00 mA 2312 1553 2475 2117

70.8 V d s l x y

270 C s s s s s

271 C 2312 1721 2525 1977

0.94 mA -58.0 V

EI POS u electric

U(a) 4794 V U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	342.979	amu
Virt. Mass	(VMASS)	342.979	amu
Link Mass	(LMASS)	342.979	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR tune2 SAVE

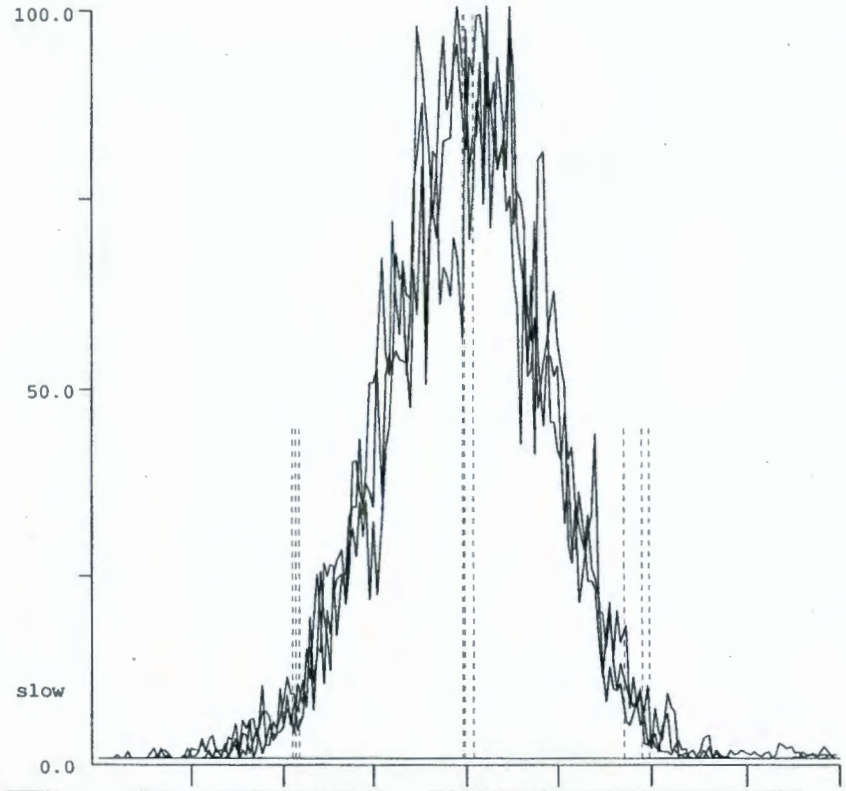
342.945 342.979 343.01

<> >< << >> ^ v C u LOCK UNLK

TUNE: _

Peak Register Display

Copy result to ULIST



REG 1/2: 380.976163 REG 1/3: 430.973975 REG 2/3: 430.973841

MASS	:	342.97896	380.97586	430.97363
REF MASS	:	342.97924	380.97605	430.97285
PEAK WIDTH [ppm]	:	89.95276	93.00816	95.96877

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK:

Fri Oct 12 11:01:31 2007 mat95 MAT 95

2666

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 139 335 uV

p 3.88 A -58.0 V

1.00 mA 2312 1553 2475 2117

70.8 V d s l x y

270 C s s s s s

271 C 2312 1721 2525 1977

0.94 mA -58.0 V

EI POS u electric

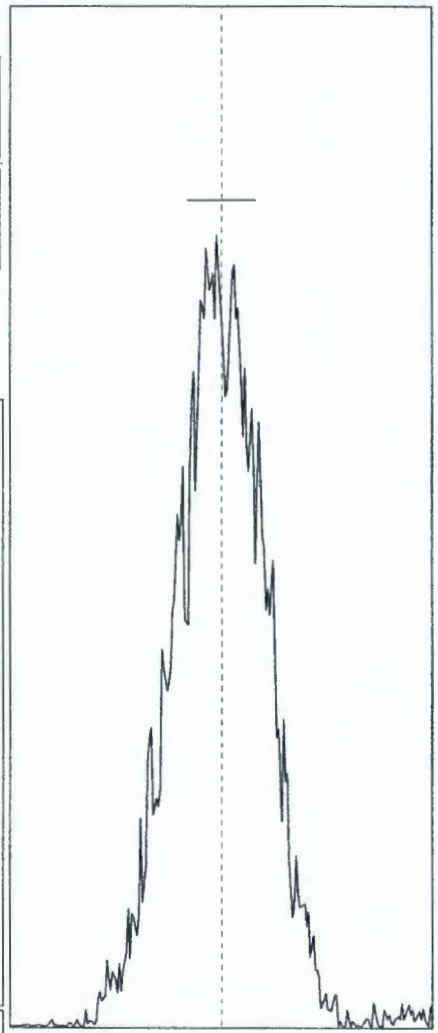
U(a) 4794 V U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	342.979	amu
Virt. Mass	(VMASS)	342.979	amu
Link Mass	(LMASS)	342.979	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR
tune2

SAVE

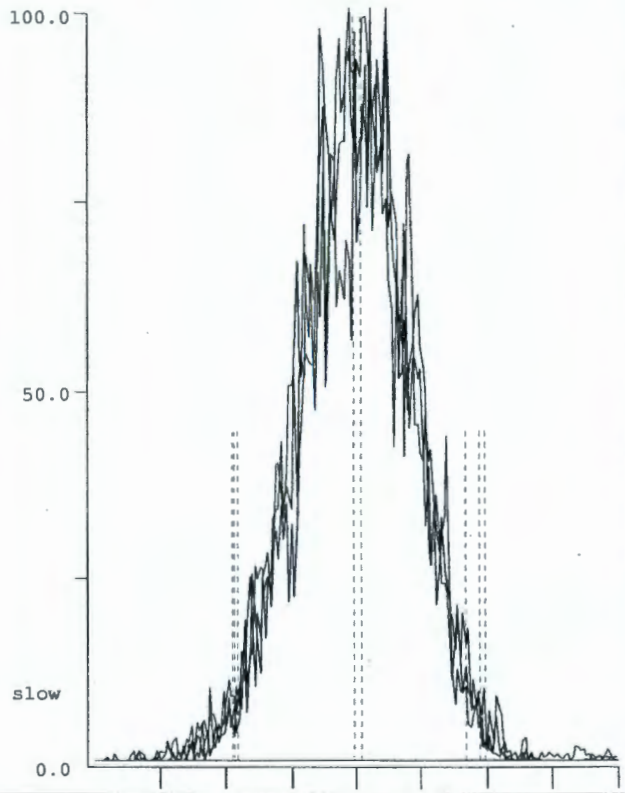


<> >> << >> ^ v C LOCK UNLK

TUNE:

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1107849	1.2565599	1.1312361
PC+DELTA	1.1107849	1.2565599	1.1312361
PC+DELTA/RM	1.0000003	1.0000026	1.0000023
REF MASS	1.1107846	1.2565567	1.1312335

REGISTER 1	
pm	342.97896
rm	342.97924
fm	342.94494
lm	343.01350
pc	7969182.50
pl	7969554.84
pr	7968837.99
bl	0.00
v	128092.00

REGISTER 2	
pm	380.97586
rm	380.97605
fm	380.93792
lm	381.01412
pc	7174370.50
pl	7174693.96
pr	7174026.69
bl	0.00
v	113084.00

REGISTER 3	
pm	430.97363
rm	430.97285
fm	430.92974
lm	431.01591
pc	6342063.11
pl	6342369.81
pr	6341761.17
bl	0.00
v	67355.00

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAUSE

PEAK: _

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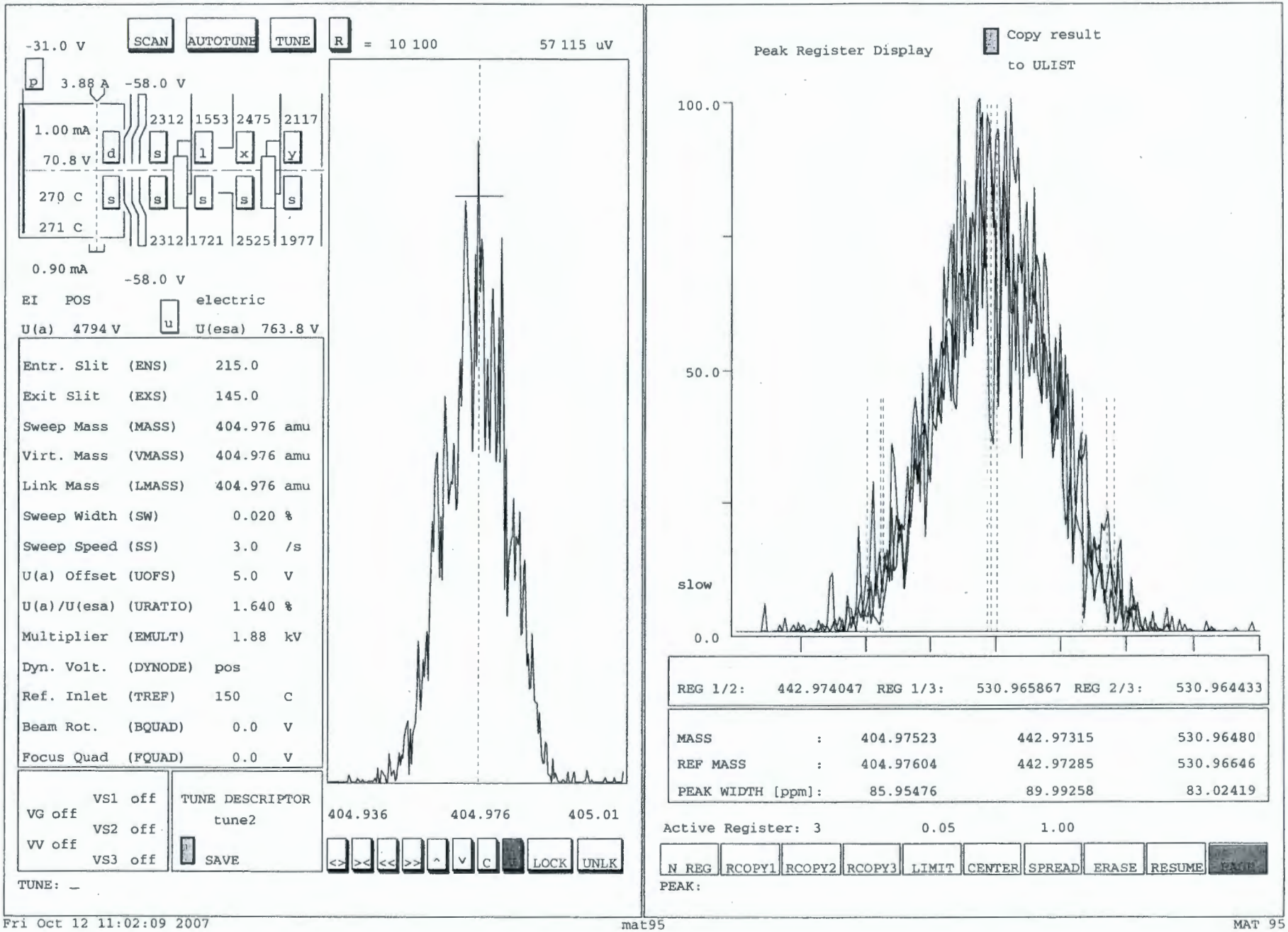
2667


SCAN
AUTOTUNE
TUNE
R = 10 100
57 115 uV
-31.0 V
p
3.88 A
-58.0 V
1.00 mA
70.8 V
270 C
271 C
2312 1553 2475 2117
2312 1721 2525 1977
0.90 mA
-58.0 V
EI POS
electric
U(a) 4794 V
U(esa) 763.8 V
Entr. Slit (ENS) 215.0
Exit Slit (EXS) 145.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.640 %
Multiplier (EMULT) 1.88 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
404.936
404.976
405.01
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 442.974047 REG 1/3: 530.965867 REG 2/3: 530.964433
MASS : 404.97523 442.97315 530.96480
REF MASS : 404.97604 442.97285 530.96646
PEAK WIDTH [ppm]: 85.95476 89.99258 83.02419
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK:
Fri Oct 12 11:02:09 2007
mat95
MAT 95

2668

-31.0 V

SCAN | AUTOTUNE | TUNE | R = 10 100 | 57 115 uV

p 3.88 A -58.0 V

1.00 mA 70.8 V | d | s 2312 | l 1553 | x 2475 | y 2117

270 C | s | s | s | s | s

271 C | 2312 | 1721 | 2525 | 1977

0.90 mA -58.0 V

EI POS | u | electric

U(a) 4794 V | U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	404.976	amu
Virt. Mass	(VMASS)	404.976	amu
Link Mass	(LMASS)	404.976	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off | VS1 off | VS2 off | VS3 off | VV off

TUNE DESCRIPTOR tune2

SAVE

TUNE:

404.936 404.976 405.01

<> >< << >> ^ v C LOCK UNLK

Diagnostic Display

Copy result to ULIST

100.0 50.0 slow 0.0

RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0938278	1.3111044	1.1986388
PC+DELTA	1.0938278	1.3111044	1.1986388
PC+DELTA/RM	1.0000027	0.9999989	0.9999962
REF MASS	1.0938248	1.3111059	1.1986434

REGISTER 1		
pm	404.97523
rm	404.97604
fm	404.93555
lm	405.01651
pc	7969192.20
pl	7969522.98
pr	7968837.99
bl	0.00
v	62684.00

REGISTER 2		
pm	442.97315
rm	442.97285
fm	442.92856
lm	443.01715
pc	7285600.49
pl	7285929.68
pr	7285274.03
bl	0.00
v	68237.00

REGISTER 3		
pm	530.96480
rm	530.96646
fm	530.91332
lm	531.01954
pc	6078228.64
pl	6078510.96
pr	6078006.32
bl	0.00
v	22988.00

Active Register: 3 0.05 1.00

N REG | RCOPY1 | RCOPY2 | RCOPY3 | LIMIT | CENTER | SPREAD | ERASE | RESUME | PAGE

PEAK: _

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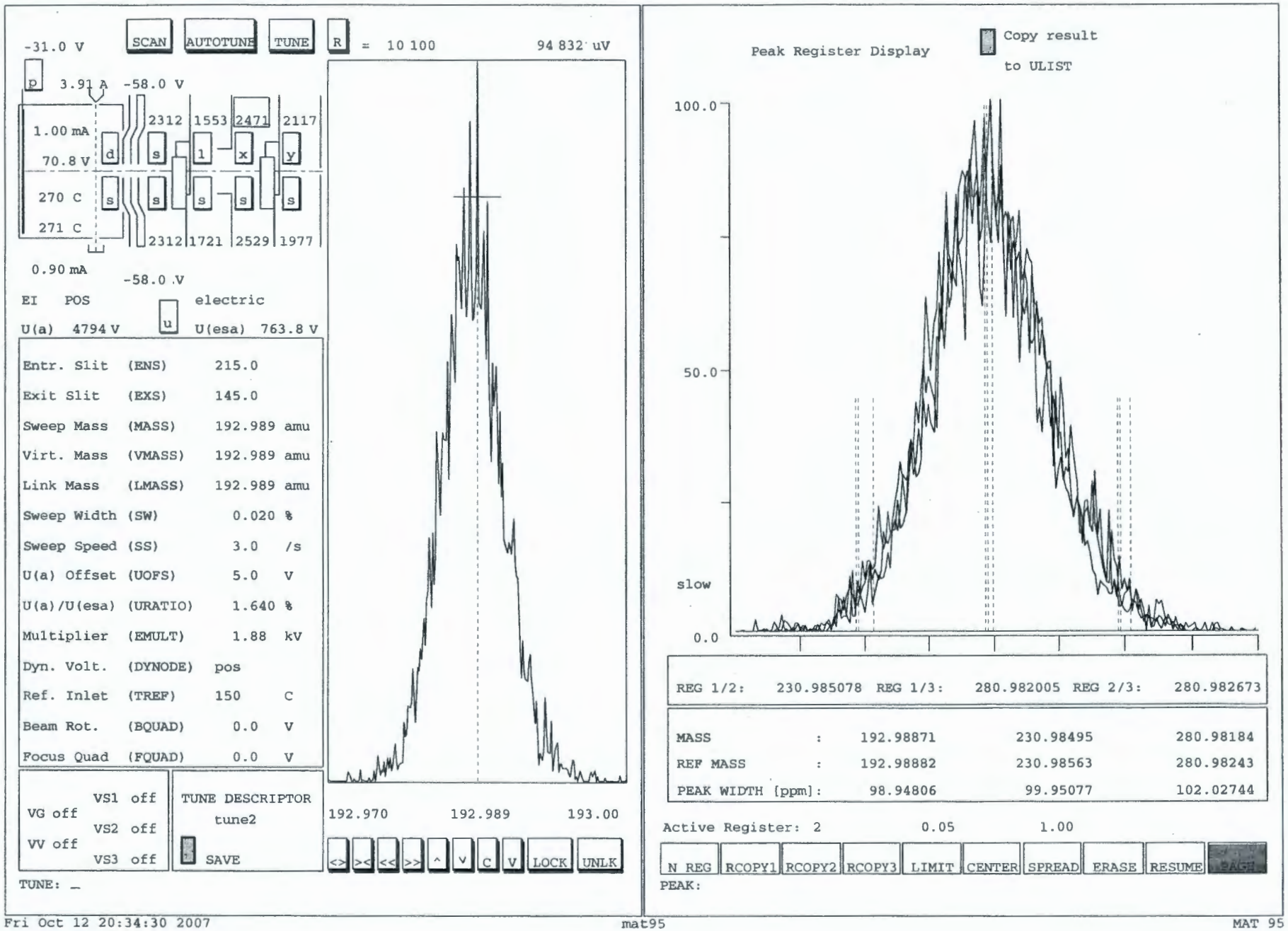
2669


-31.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 100
94 832 uV
p
3.91 A
-58.0 V
1.00 mA
70.8 V
2312
1553
2471
2117
d
s
l
x
y
270 C
271 C
2312
1721
2529
1977
0.90 mA
-58.0 V
EI POS
electric
U(a) 4794 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 215.0
Exit Slit (EXS) 145.0
Sweep Mass (MASS) 192.989 amu
Virt. Mass (VMASS) 192.989 amu
Link Mass (LMASS) 192.989 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.640 %
Multiplier (EMULT) 1.88 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VS3 off
VV off
TUNE DESCRIPTOR
tune2
SAVE
TUNE: _
192.970
192.989
193.00
<> >< << >> ^ v C V LOCK UNLK
Fri Oct 12 20:34:30 2007
mat95
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 230.985078 REG 1/3: 280.982005 REG 2/3: 280.982673
MASS : 192.98871 230.98495 280.98184
REF MASS : 192.98882 230.98563 280.98243
PEAK WIDTH [ppm]: 98.94806 99.95077 102.02744
Active Register: 2 0.05 1.00
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE
PEAK:
MAT 95

2670

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 94 832 uV

p 3.91 A -58.0 V

1.00 mA 70.8 V d s 1 x y 2312 1553 2471 2117

270 C 271 C s s s s s 2312 1721 2529 1977

0.90 mA -58.0 V

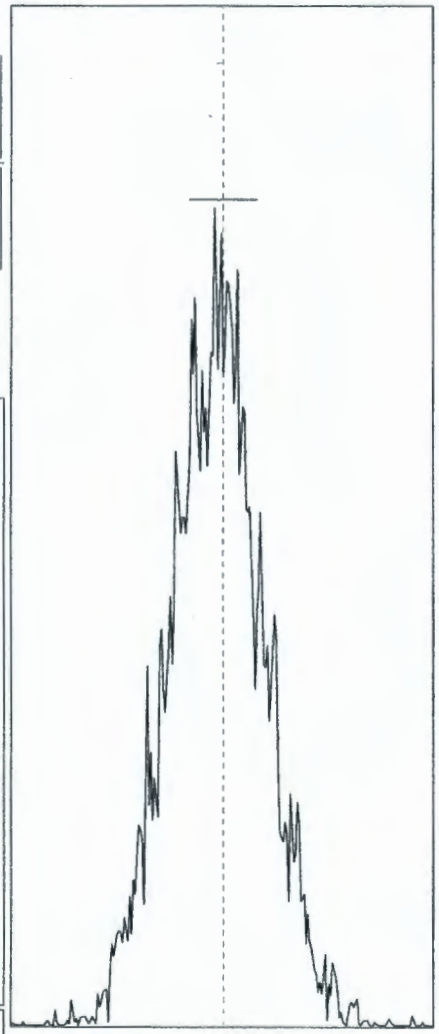
EI POS u electric

U(a) 4794 V U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	192.989	amu
Virt. Mass	(VMASS)	192.989	amu
Link Mass	(LMASS)	192.989	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR tune2 SAVE

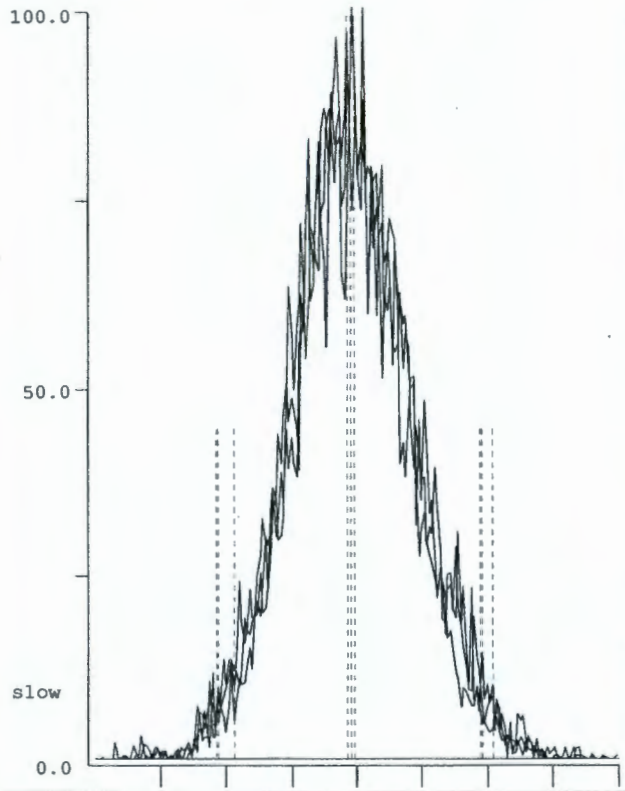


192.970 192.989 193.00

<> >>< << >> ^ v C V LOCK UNLK

TUNE:

Diagnostic Display Copy result to ULIST



R	pm	192.98871
E	rm	192.98882
G	fm	192.96953
I	lm	193.00810
S	pc	7969180.68
T	p1	7969546.87
E	pr	7968758.34
R	bl	0.00
1	v	92195.00

R	pm	230.98495
E	rm	230.98563
G	fm	230.96256
I	lm	231.00874
S	pc	6658277.65
T	p1	6658606.89
E	pr	6657941.39
R	bl	0.00
2	v	265913.00

R	pm	280.98184
E	rm	280.98243
G	fm	280.95432
I	lm	281.01053
S	pc	5473527.69
T	p1	5473809.41
E	pr	5473250.96
R	bl	0.00
3	v	153725.00

RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1968832	1.4559496	1.2164509
PC+DELTA	1.1968832	1.4559496	1.2164509
PC+DELTA/RM	0.9999976	0.9999985	1.0000009
REF MASS	1.1968860	1.4559519	1.2164499

Active Register: 2 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

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2671

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 91 611 uV

p 3.88 A -58.0 V

1.00 mA 2312 1553 2471 2117

70.8 V d s l x y

270 C s s s s s

271 C 2312 1721 2529 1977

0.90 mA -58.0 V

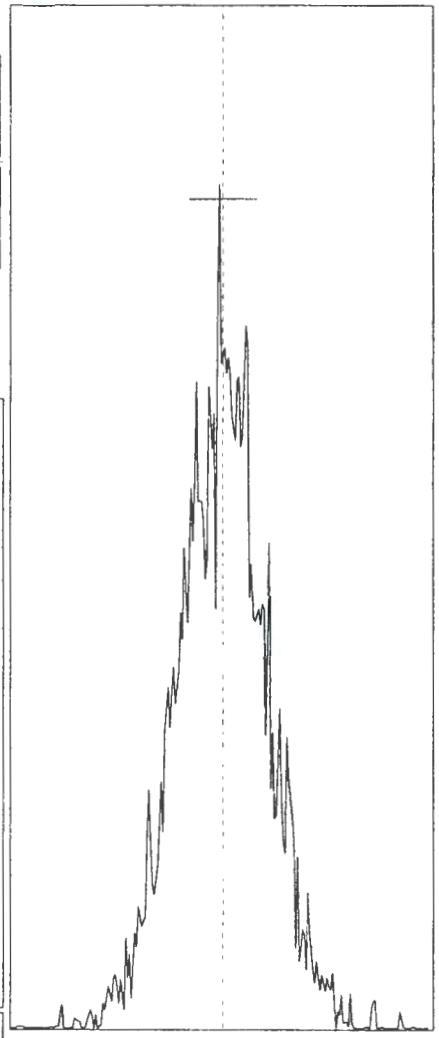
EI POS electric

U(a) 4794 V u U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	268.982	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

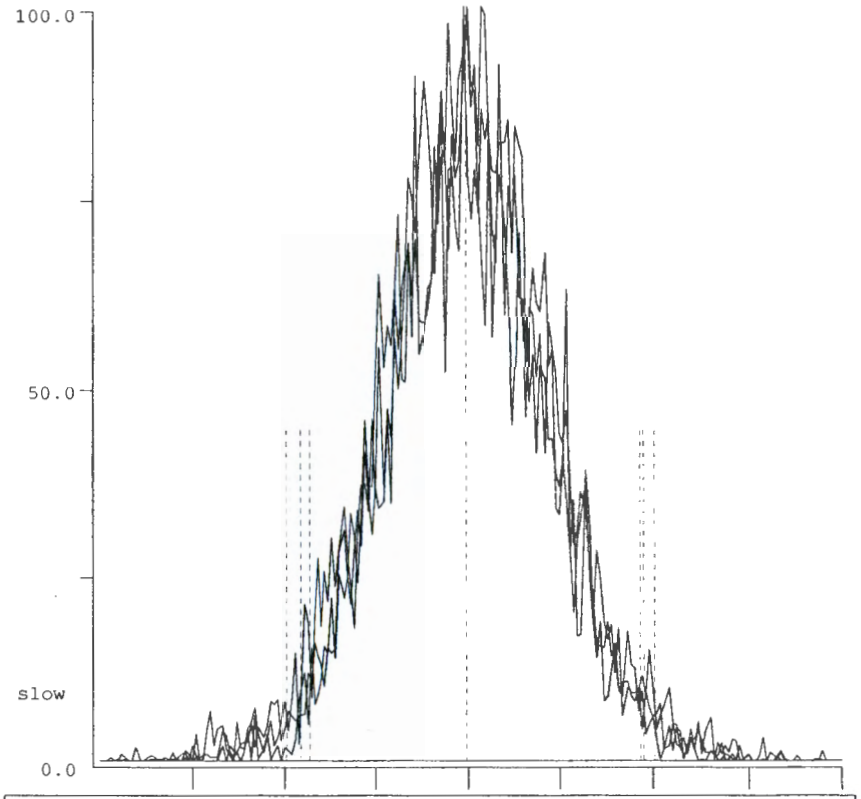
TUNE DESCRIPTOR
tune2
SAVE



<> >>< << >> ^ v C V LOCK UNLK

TUNE: _

Peak Register Display Copy result to ULIST



REG 1/2: 292.982423 REG 1/3: 380.976055 REG 2/3: 380.976068

MASS :	268.98239	292.98237	380.97599
REF MASS :	268.98243	292.98243	380.97605
PEAK WIDTH [ppm]:	89.95282	97.04809	95.97410

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME

PEAK:

2672

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 91 611 uV

p 3.88 A -58.0 V

1.00 mA 2312 1553 2471 2117

70.8 V d s l x y

270 C s s s s s

271 C 2312 1721 2529 1977

0.86 mA -58.0 V

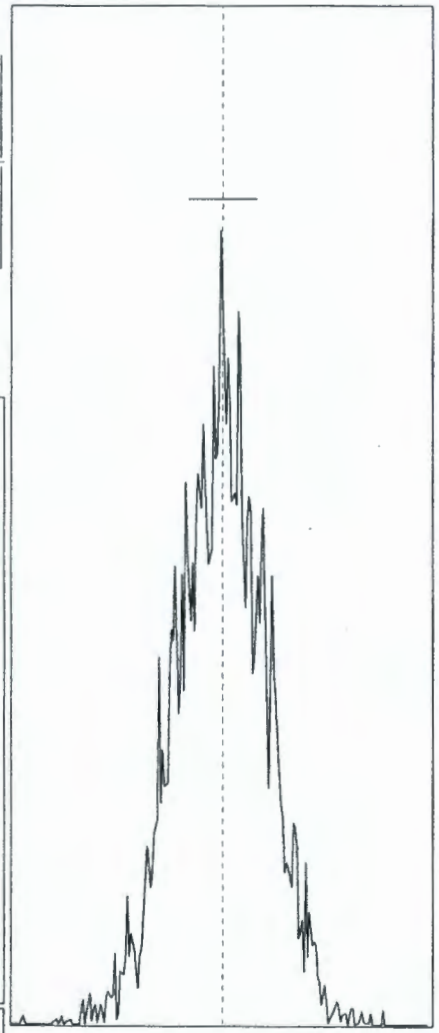
EI POS electric

U(a) 4794 V u U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	268.982	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR tune2 SAVE



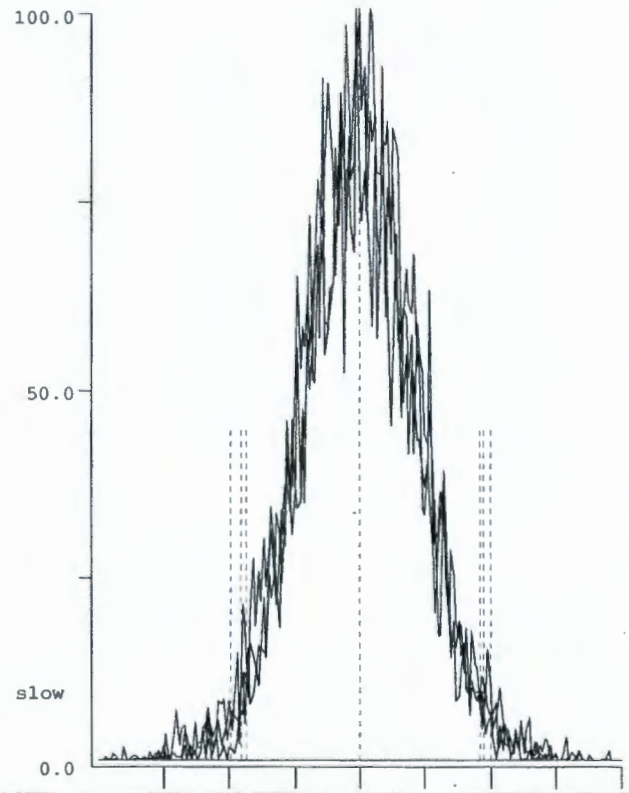
268.956 268.982 269.00

<> >< << >> ^ v C V LOCK UNLK

TUNE:

Diagnostic Display

Copy result to ULIST



R	pm	268.98239
E	rm	268.98243
G	fm	268.95554
I	lm	269.00930
S	pc	7969177.34
T	pl	7969522.98
E	pr	7968806.13
R	bl	0.00
1	v	92131.00

R	pm	292.98237
E	rm	292.98243
G	fm	292.95311
I	lm	293.01173
S	pc	7316373.07
T	pl	7316734.34
E	pr	7316024.30
R	bl	0.00
2	v	166153.00

R	pm	380.97599
E	rm	380.97605
G	fm	380.93796
I	lm	381.01413
S	pc	5626518.22
T	pl	5626773.44
E	pr	5626233.44
R	bl	0.00
3	v	66866.00

RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0892251	1.4163604	1.3003376
PC+DELTA	1.0892251	1.4163604	1.3003376
PC+DELTA/RM	1.0000000	1.0000000	1.0000001
REF MASS	1.0892252	1.4163603	1.3003375

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAUSE

PEAK: _

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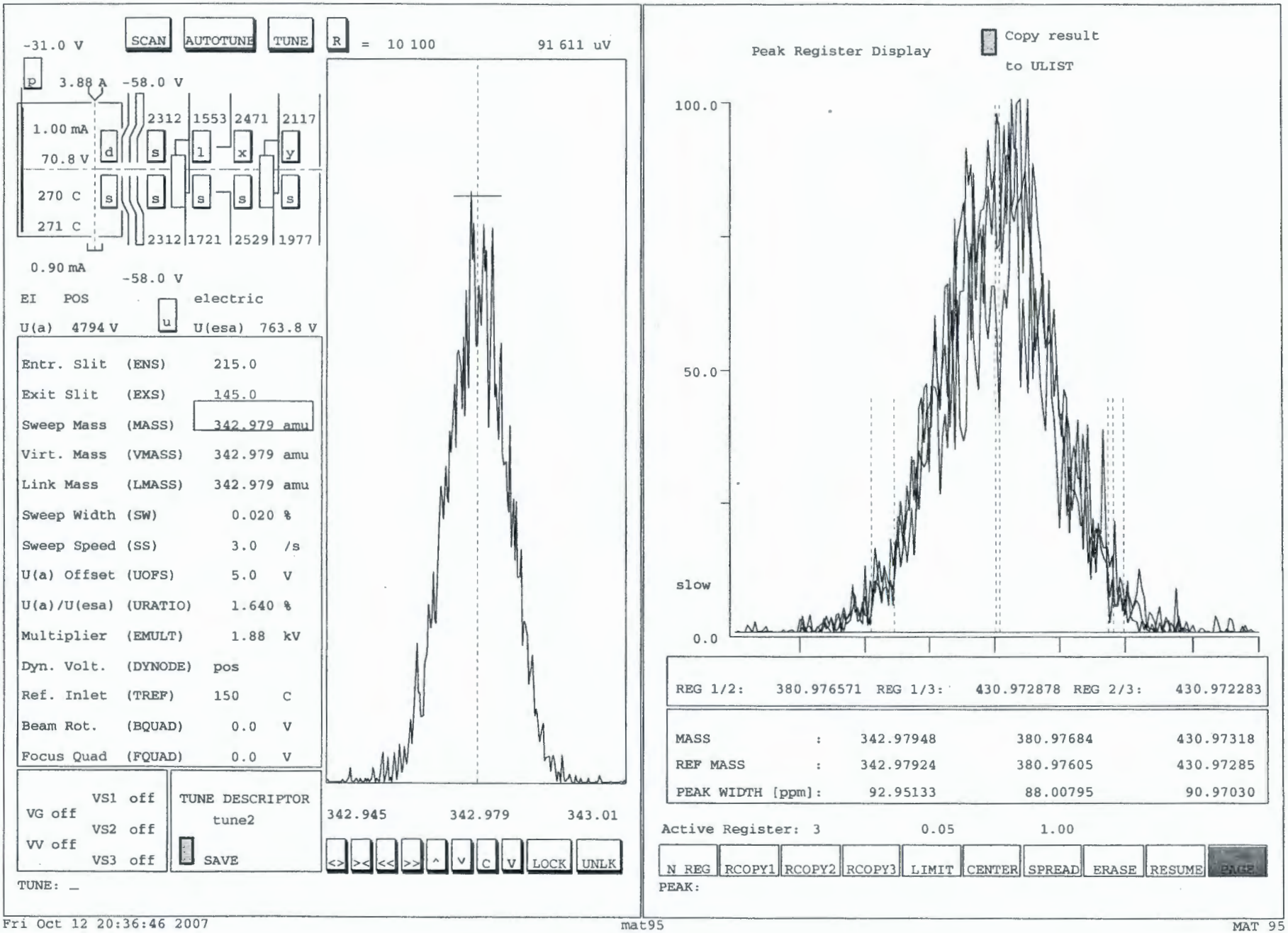
2673


-31.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 100
91 611 uV
p
3.88 A
-58.0 V
1.00 mA
70.8 V
2312
1553
2471
2117
d
s
l
x
y
270 C
271 C
2312
1721
2529
1977
0.90 mA
-58.0 V
EI POS
u
electric
U(a) 4794 V
U(esa) 763.8 V
Entr. Slit (ENS) 215.0
Exit Slit (EXS) 145.0
Sweep Mass (MASS) 342.979 amu
Virt. Mass (VMASS) 342.979 amu
Link Mass (LMASS) 342.979 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.640 %
Multiplier (EMULT) 1.88 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
342.945
342.979
343.01
<>
><
<<
>>
^
v
C
V
LOCK
UNLK
TUNE: _
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 380.976571 REG 1/3: 430.972878 REG 2/3: 430.972283
MASS : 342.97948 380.97684 430.97318
REF MASS : 342.97924 380.97605 430.97285
PEAK WIDTH [ppm]: 92.95133 88.00795 90.97030
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PAGE
PEAK:
Fri Oct 12 20:36:46 2007
mat95
MAT 95

2674

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 91 611 uV

p 3.88 A -58.0 V

1.00 mA 2312 1553 2471 2117

70.8 V d s 1 x y

270 C s s s s s

271 C 2312 1721 2529 1977

0.90 mA -58.0 V

EI POS electric

U(a) 4794 V u U(esa) 763.8 V

Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	342.979	amu
Virt. Mass	(VMASS)	342.979	amu
Link Mass	(LMASS)	342.979	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR
tune2

SAVE

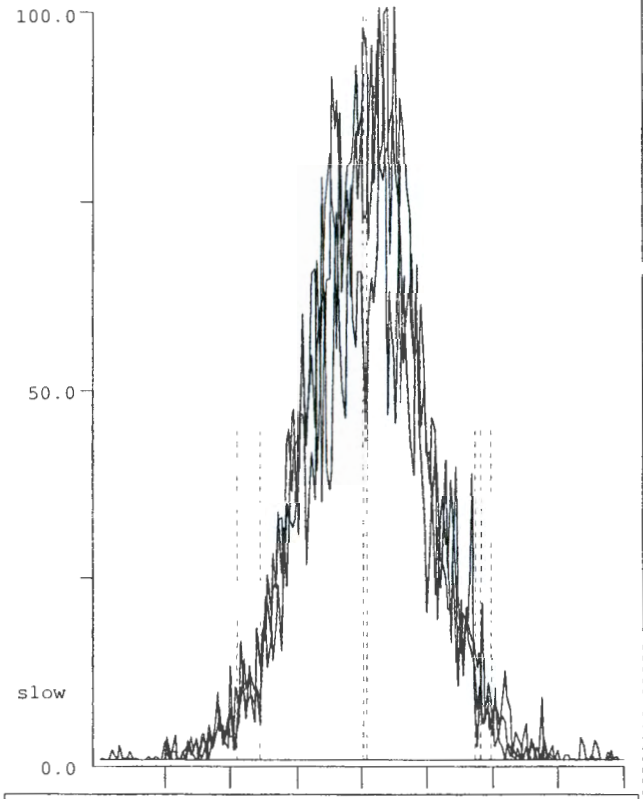
342.945 342.979 343.01

<> >< << >> ^ v C V LOCK UNLK

TUNE:

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1107861	1.2565567	1.1312320
PC+DELTA	1.1107861	1.2565567	1.1312320
PC+DELTA/RM	1.0000014	1.0000001	0.9999987
REF MASS	1.1107846	1.2565567	1.1312335

R1	pm	342.97948
	rm	342.97924
	fm	342.94494
	lm	343.01350
	pc	7969170.43
	pl	7969554.84
	pr	7968814.09
	bl	0.00
	v	93838.00

R2	pm	380.97684
	rm	380.97605
	fm	380.93792
	lm	381.01412
	pc	7174351.97
	pl	7174643.74
	pr	7174012.34
	bl	0.00
	v	75216.00

R3	pm	430.97318
	rm	430.97285
	fm	430.92974
	lm	431.01591
	pc	6342069.65
	pl	6342376.15
	pr	6341799.21
	bl	0.00
	v	52347.00

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

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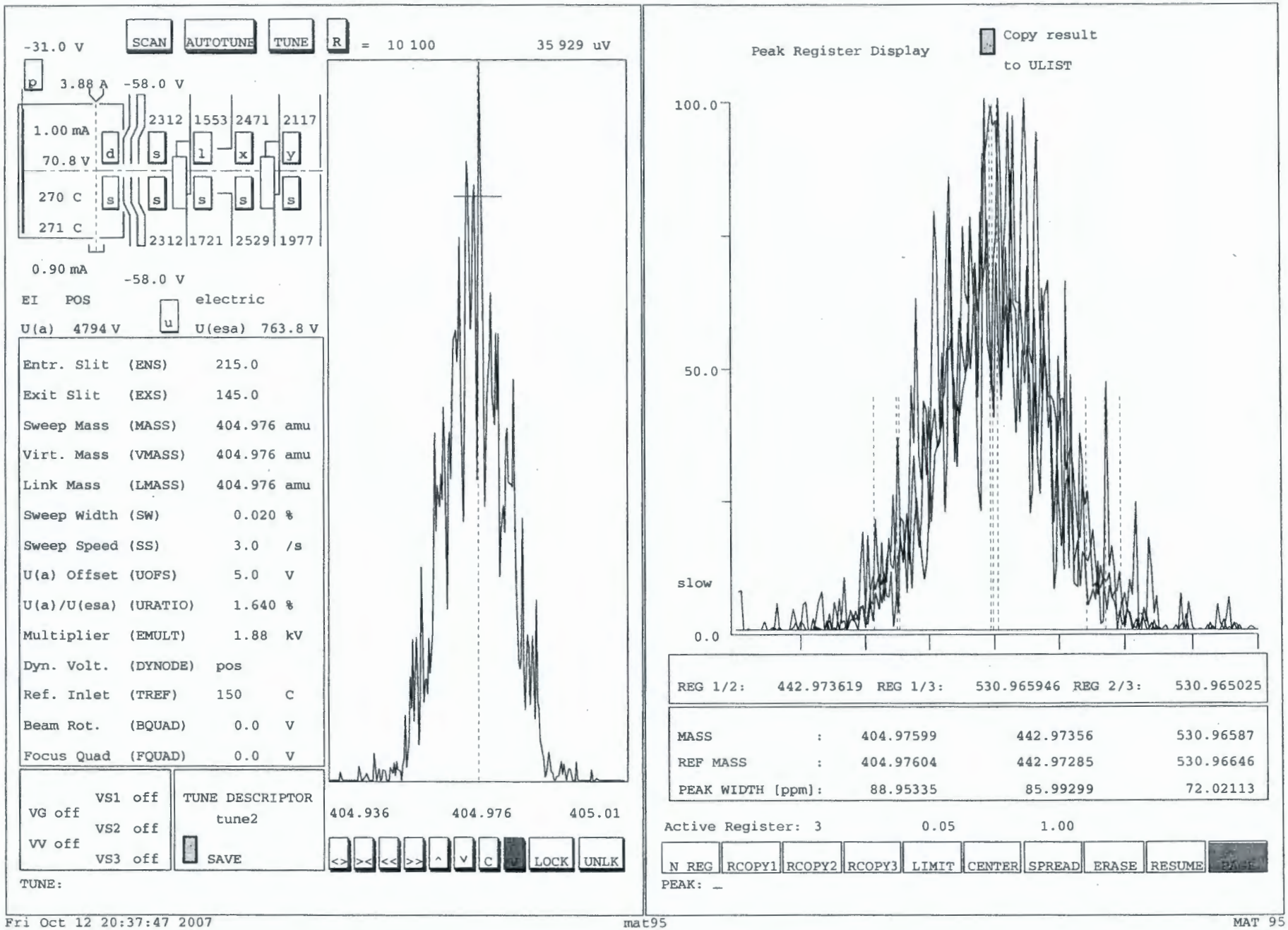
2675


-31.0 V
SCAN
AUTOTUNE
TUNE
R
= 10 100
35 929 uV
p
3.88 A
-58.0 V
1.00 mA
70.8 V
2312
1553
2471
2117
d
s
l
x
y
270 C
271 C
s
s
s
s
s
2312
1721
2529
1977
0.90 mA
-58.0 V
EI POS
electric
U(a) 4794 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 215.0
Exit Slit (EXS) 145.0
Sweep Mass (MASS) 404.976 amu
Virt. Mass (VMASS) 404.976 amu
Link Mass (LMASS) 404.976 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.640 %
Multiplier (EMULT) 1.88 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VS1 off
VS2 off
VV off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
404.936
404.976
405.01
<>
><
<<
>>
^
v
C
LOCK
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 442.973619 REG 1/3: 530.965946 REG 2/3: 530.965025
MASS : 404.97599 442.97356 530.96587
REF MASS : 404.97604 442.97285 530.96646
PEAK WIDTH [ppm]: 88.95335 85.99299 72.02113
Active Register: 3 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PAGE
PEAK: _
Fri Oct 12 20:37:47 2007
mat95
MAT 95

2676

-31.0 V SCAN AUTOTUNE TUNE R = 10 100 35 929 uV

p 3.88 A -58.0 V

1.00 mA 2312 1553 2471 2117

70.8 V d s l x y

270 C s s s s s

271 C 2312 1721 2529 1977

0.90 mA -58.0 V

EI POS u electric

U(a) 4794 V U(esa) 763.8 V

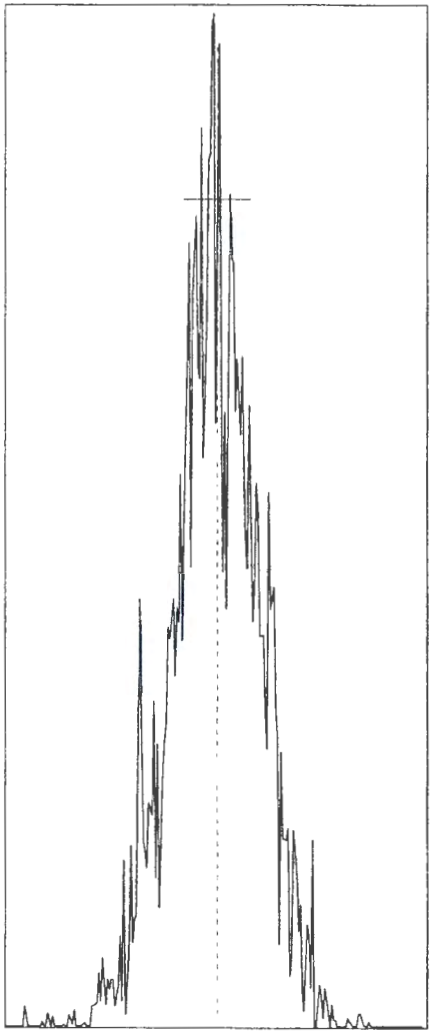
Entr. Slit	(ENS)	215.0	
Exit Slit	(EXS)	145.0	
Sweep Mass	(MASS)	404.976	amu
Virt. Mass	(VMASS)	404.976	amu
Link Mass	(LMASS)	404.976	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.640	%
Multiplier	(EMULT)	1.88	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR
tune2

SAVE

TUNE:

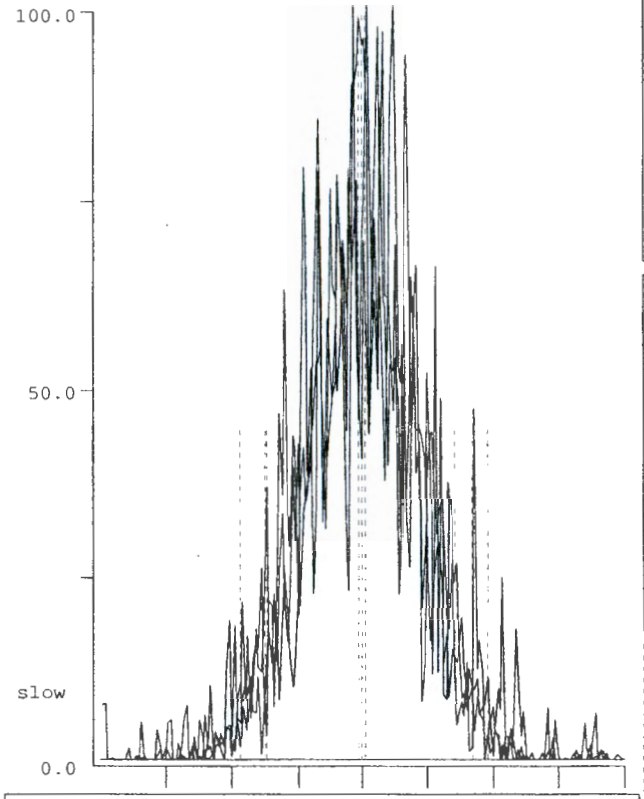


404.936 404.976 405.01

<> >< << >> ^ v C LOCK UNLK

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0938267	1.3111046	1.1986401
PC+DELTA	1.0938267	1.3111046	1.1986401
PC+DELTA/RM	1.0000017	0.9999990	0.9999973
REF MASS	1.0938248	1.3111059	1.1986434

REG 1		
pm	404.97599
rm	404.97604
fm	404.93555
lm	405.01651
pc	7969177.21
pl	7969546.87
pr	7968837.99
bl	0.00
v	40905.00

REG 2		
pm	442.97356
rm	442.97285
fm	442.92856
lm	443.01715
pc	7285593.84
pl	7285878.69
pr	7285252.18
bl	0.00
v	54342.00

REG 3		
pm	530.96587
rm	530.96646
fm	530.91332
lm	531.01954
pc	6078216.31
pl	6078431.92
pr	6077994.16
bl	0.00
v	16378.00

Active Register: 3 0.05 1.00

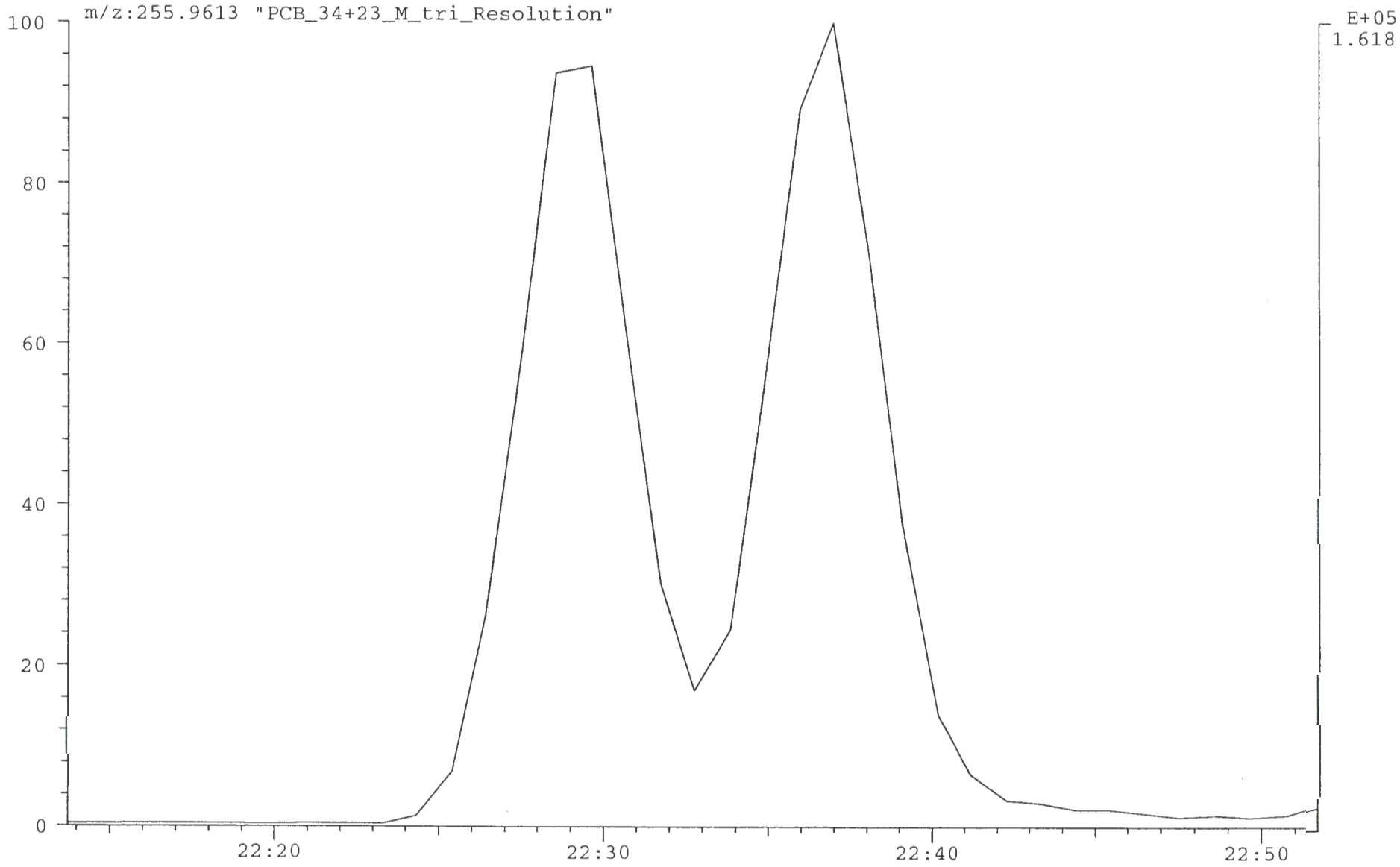
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME

PEAK: _

Fri Oct 12 20:37:59 2007 mat95 MAT 95

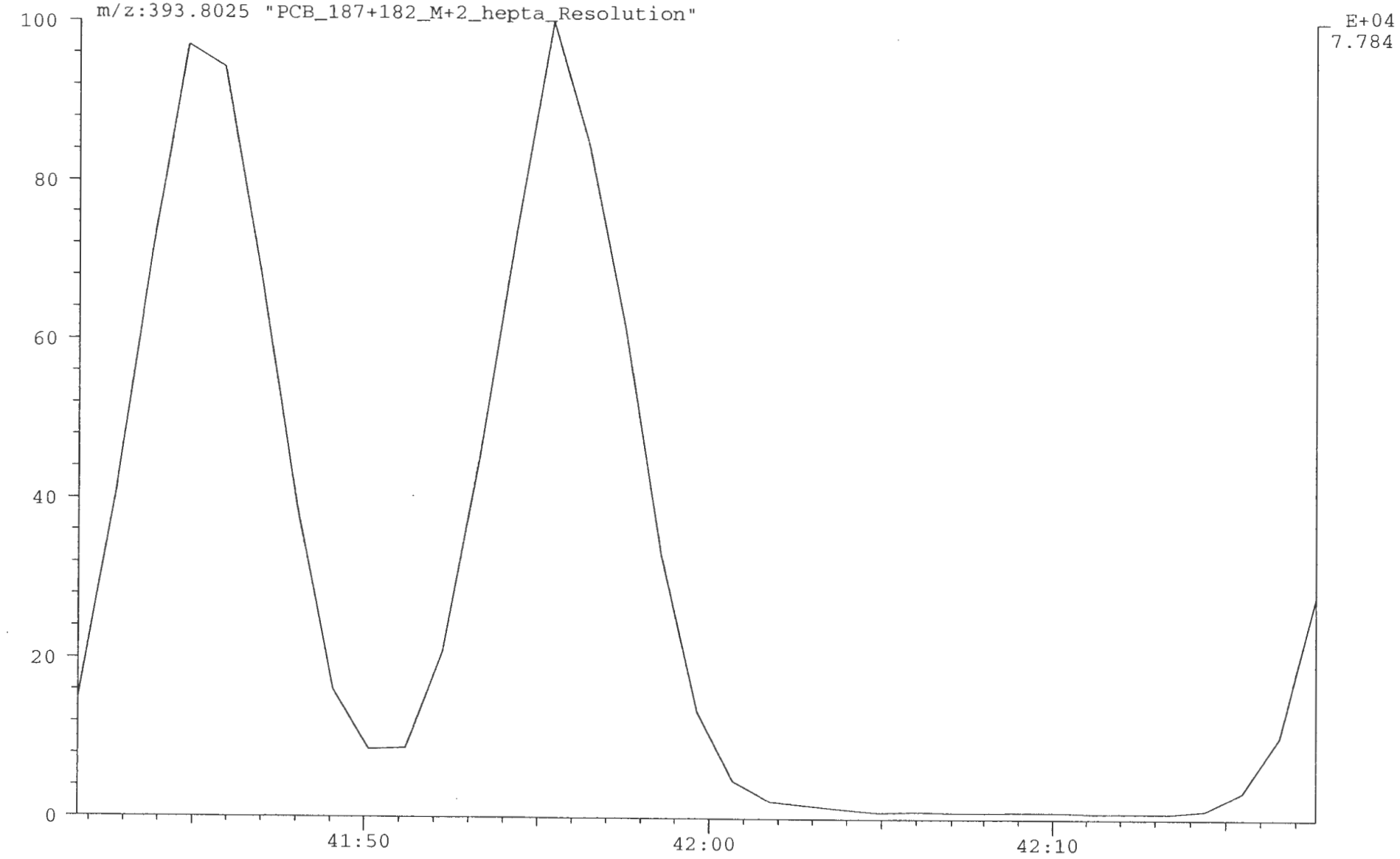
2677

CHRO: a071012s1 12-Oct-07 Elapse: 22:24.3 644
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 634 > 670 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area



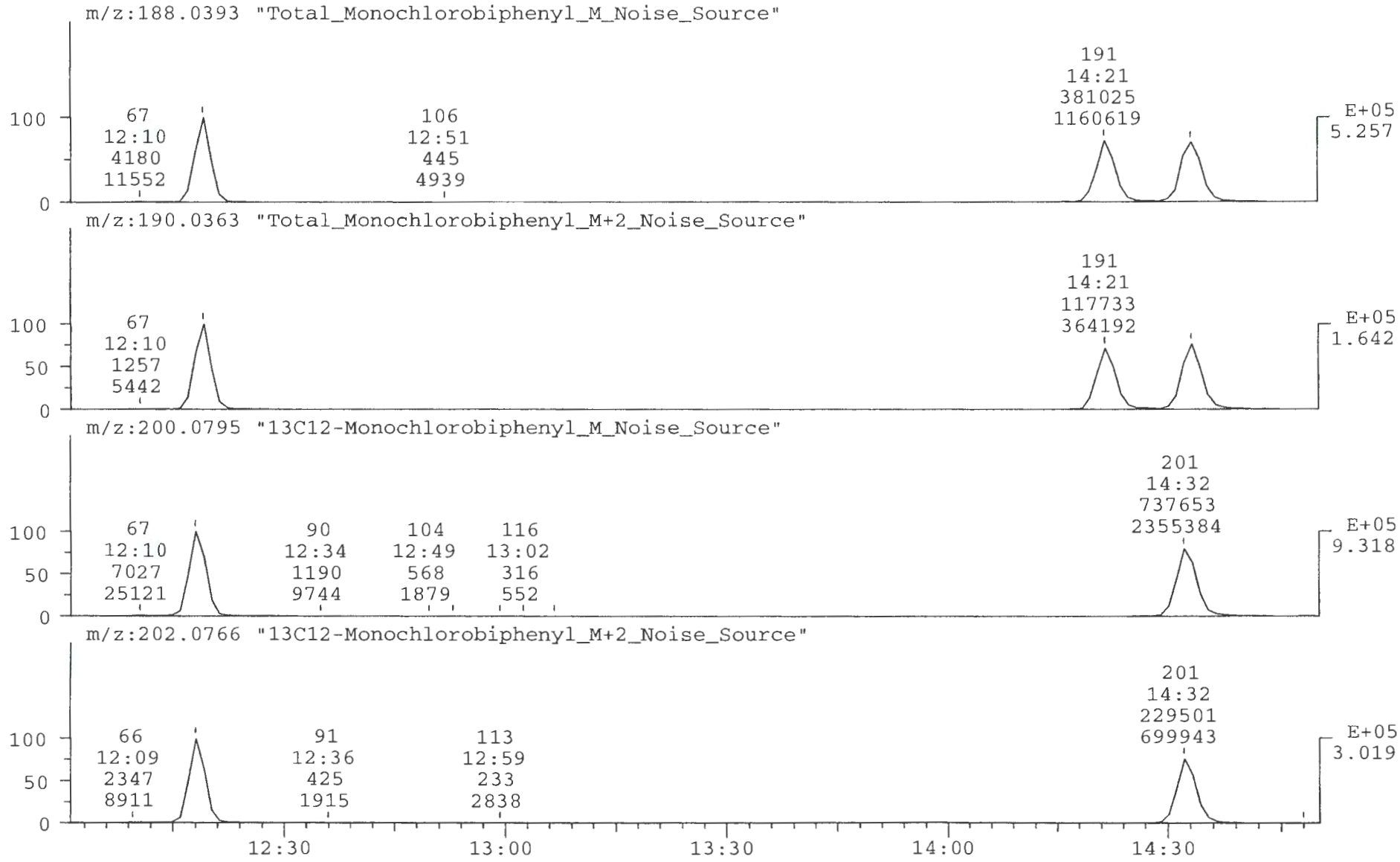
2678

```
CHRO:  a071012s1                                12-Oct-07   Elapse:  41:54       1748
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1736 > 1770           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  0, 3.0
Disp:  Height  Area
```

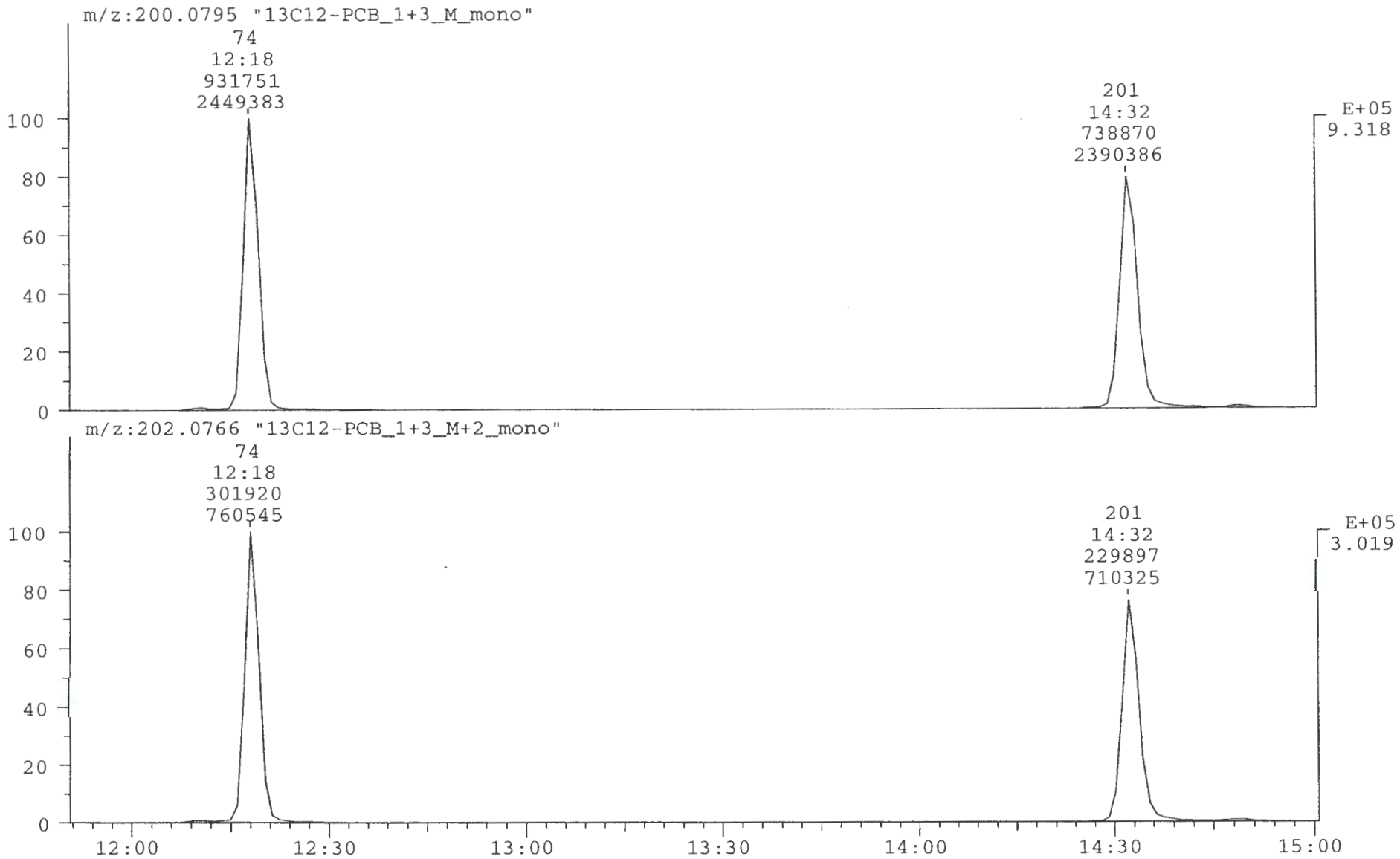


2679

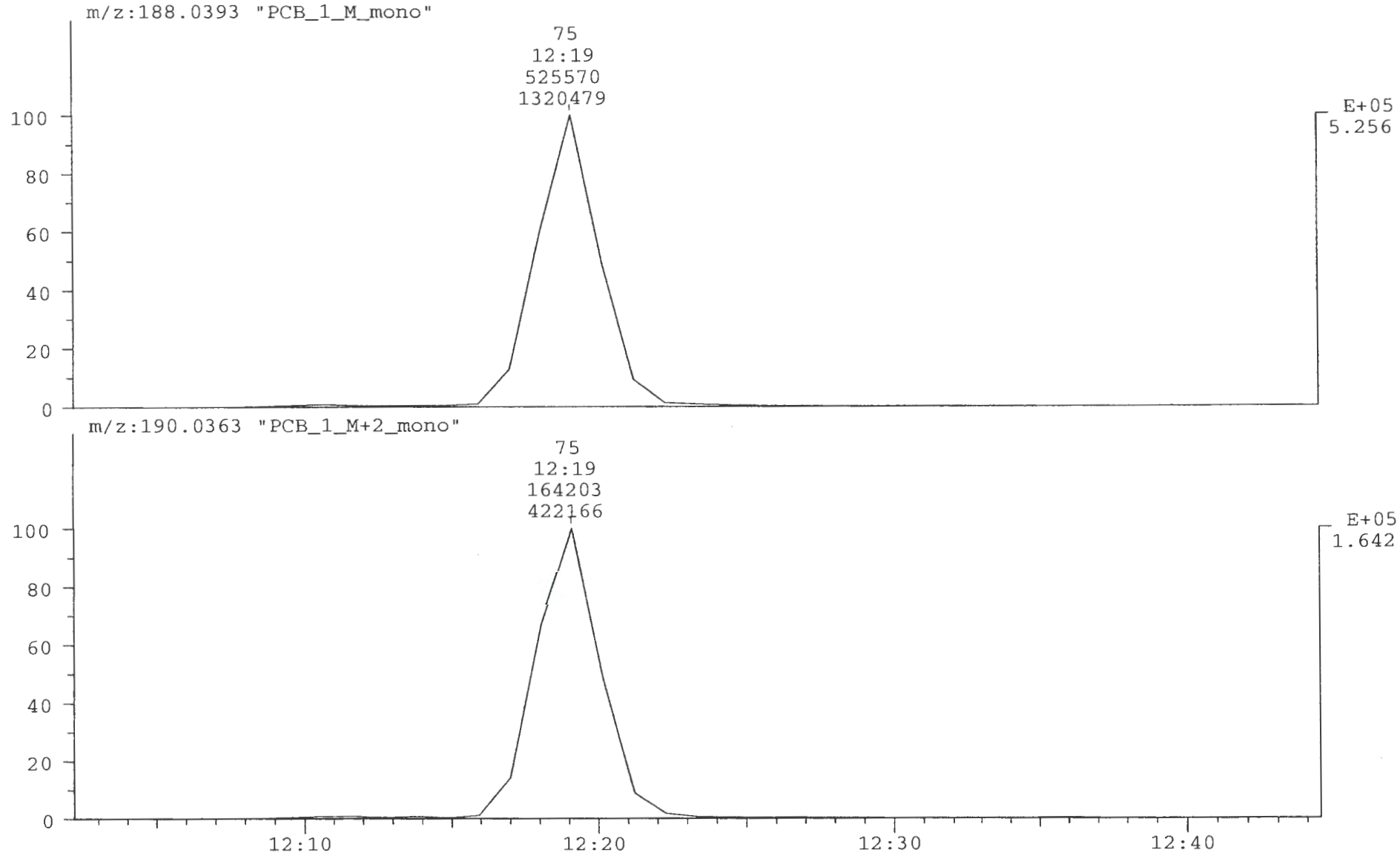
```
CHRO:  a071012s1                                12-Oct-07  Elapse:  13:25.6      138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   58 > 218             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071012s1                                12-Oct-07   Elapse:  13:25.6      138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

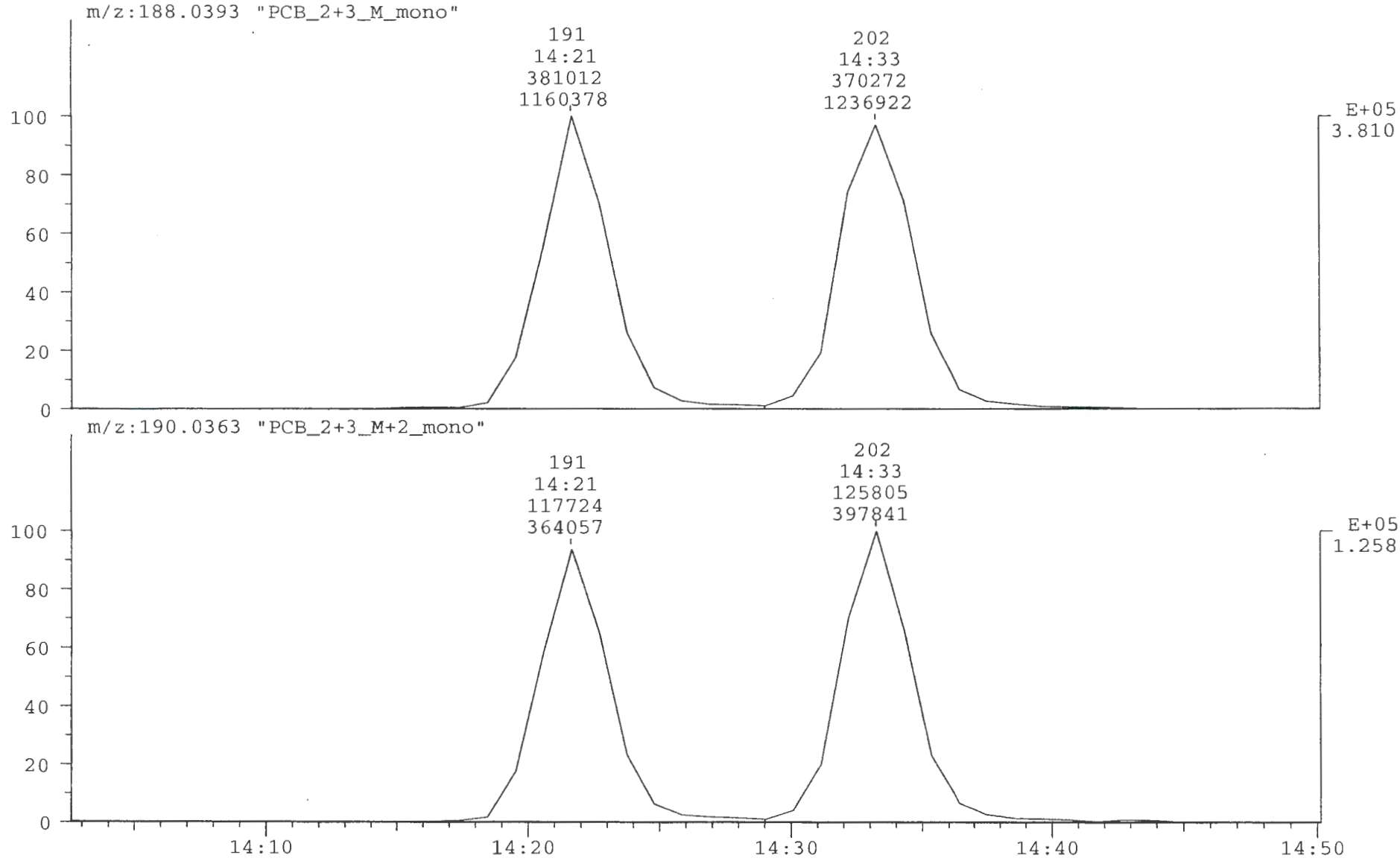


```
CHRO:  a071012s1                                12-Oct-07   Elapse:  12:12.7      69
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   59 > 99               Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

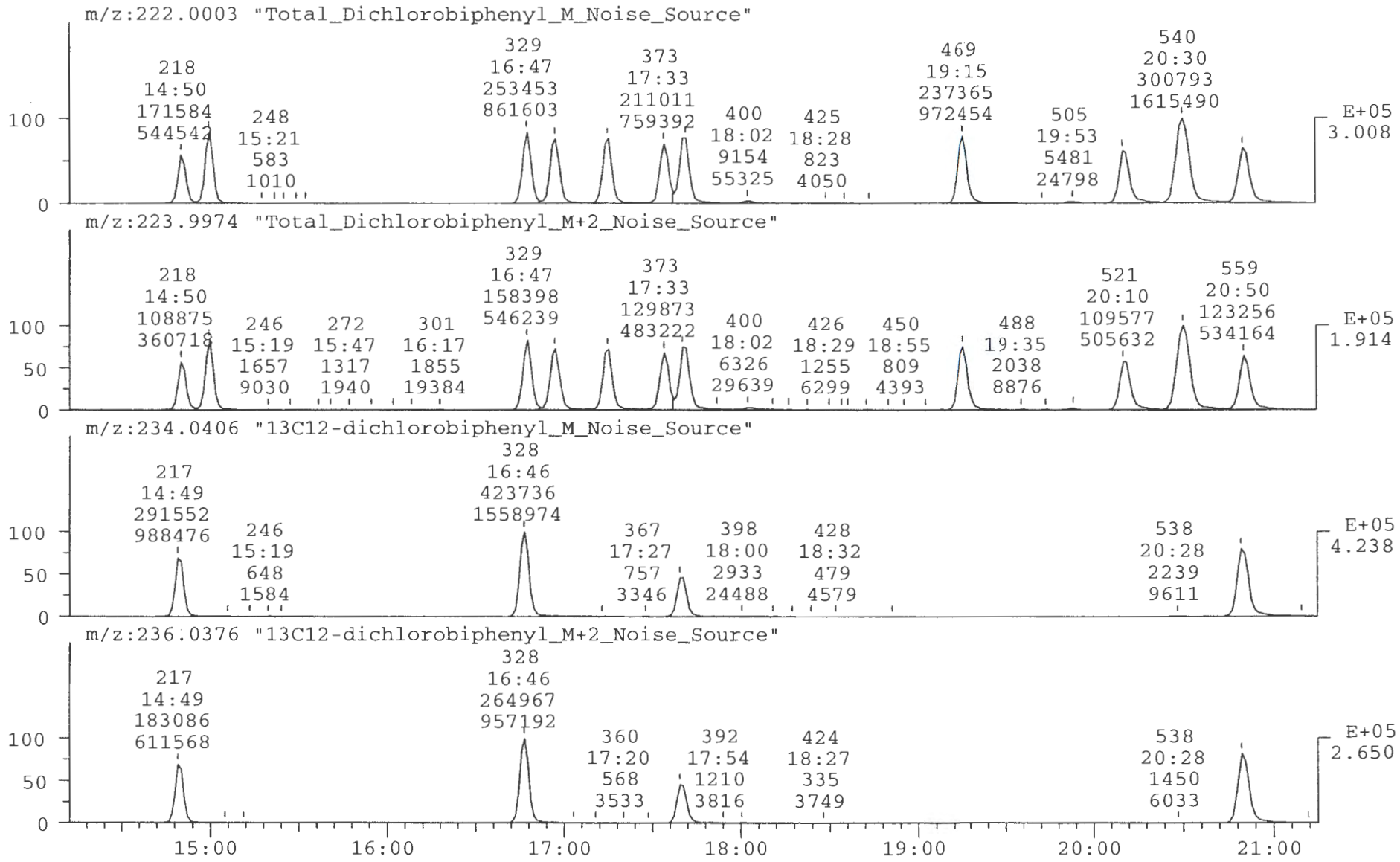


2682

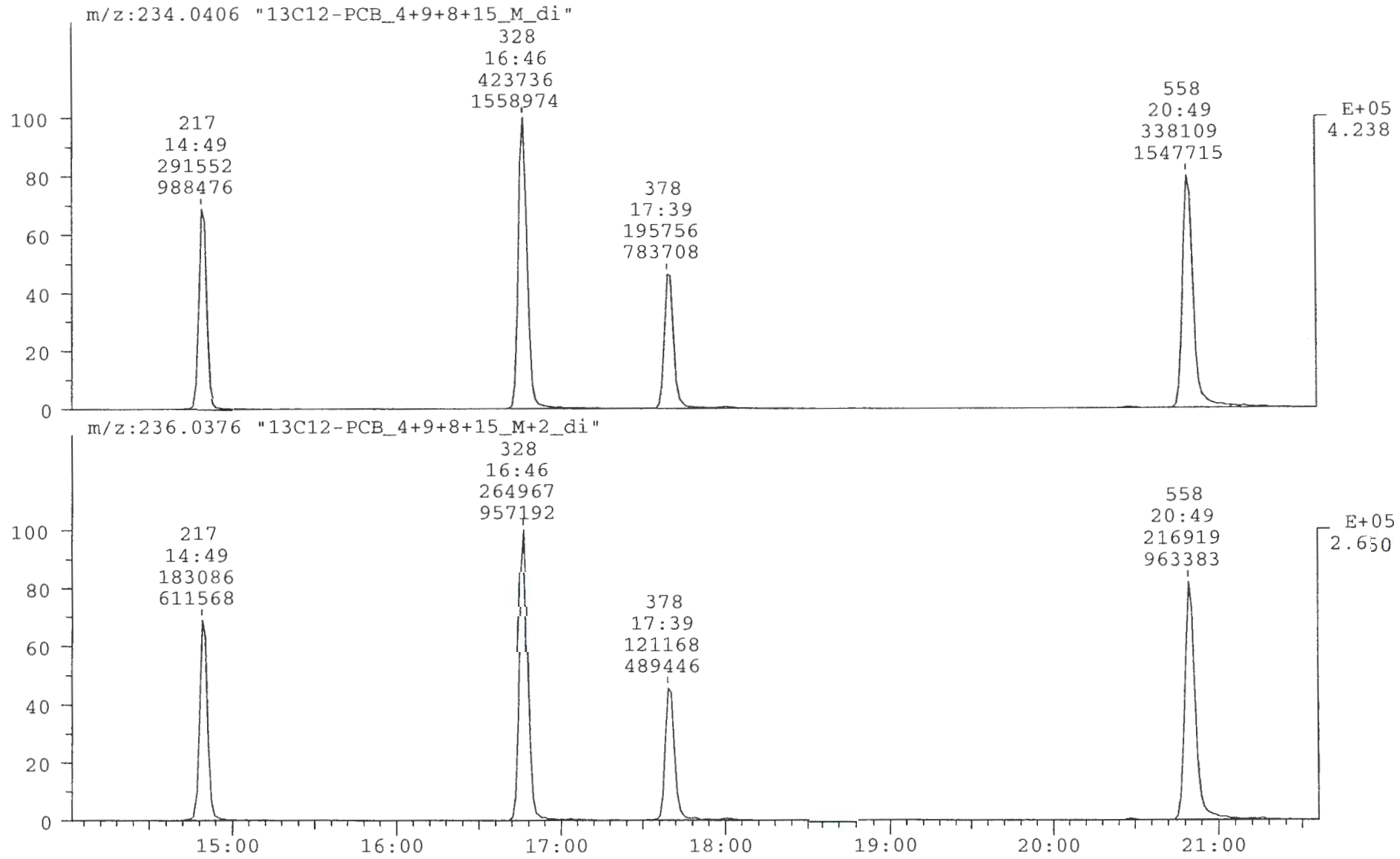
```
CHRO:  a071012s1                              12-Oct-07   Elapse:  14:23.7      193
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   173 > 218           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



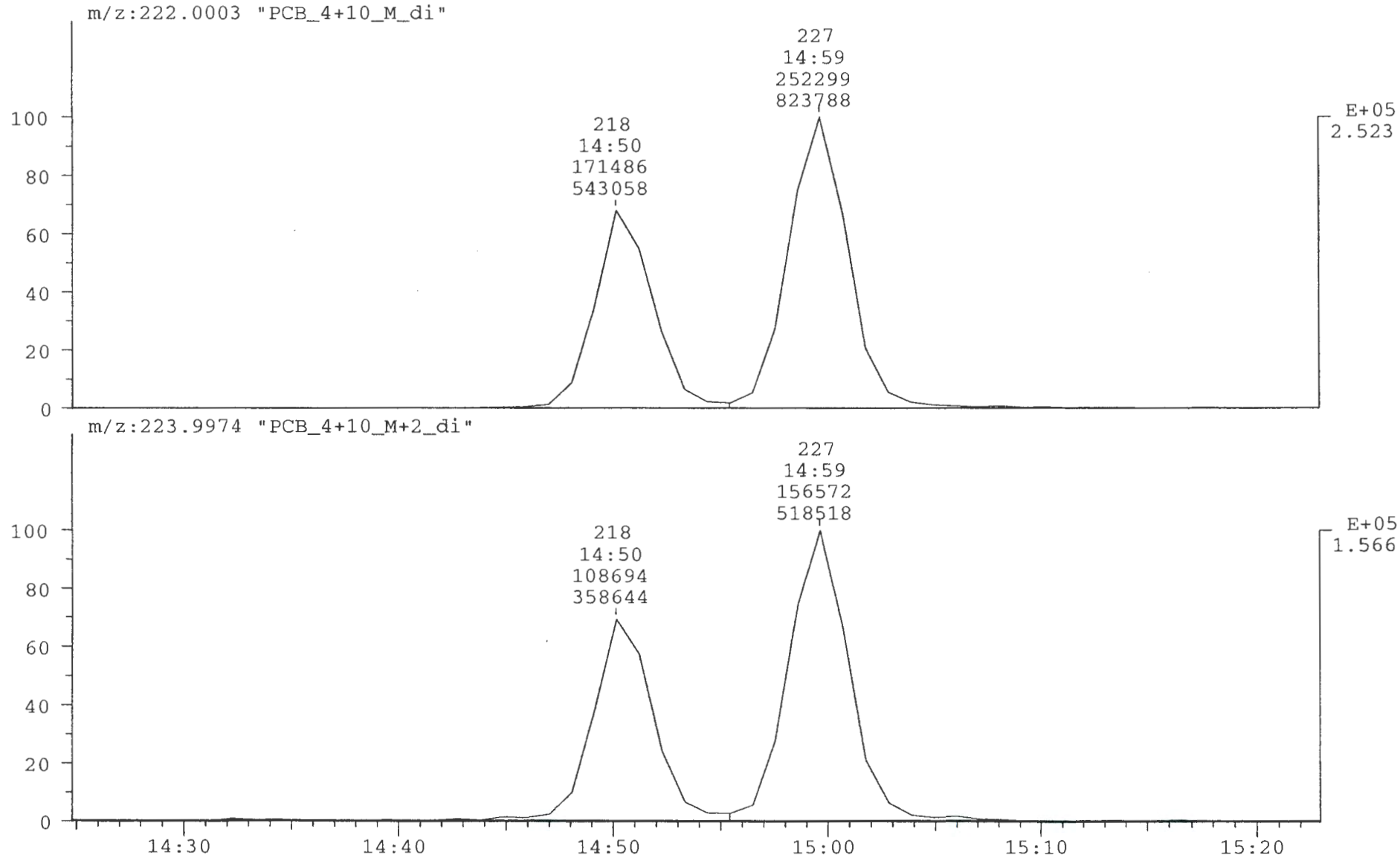
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  17:43.4      382
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   182 > 582             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071012s1                                12-Oct-07   Elapse:  17:43.4      382
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

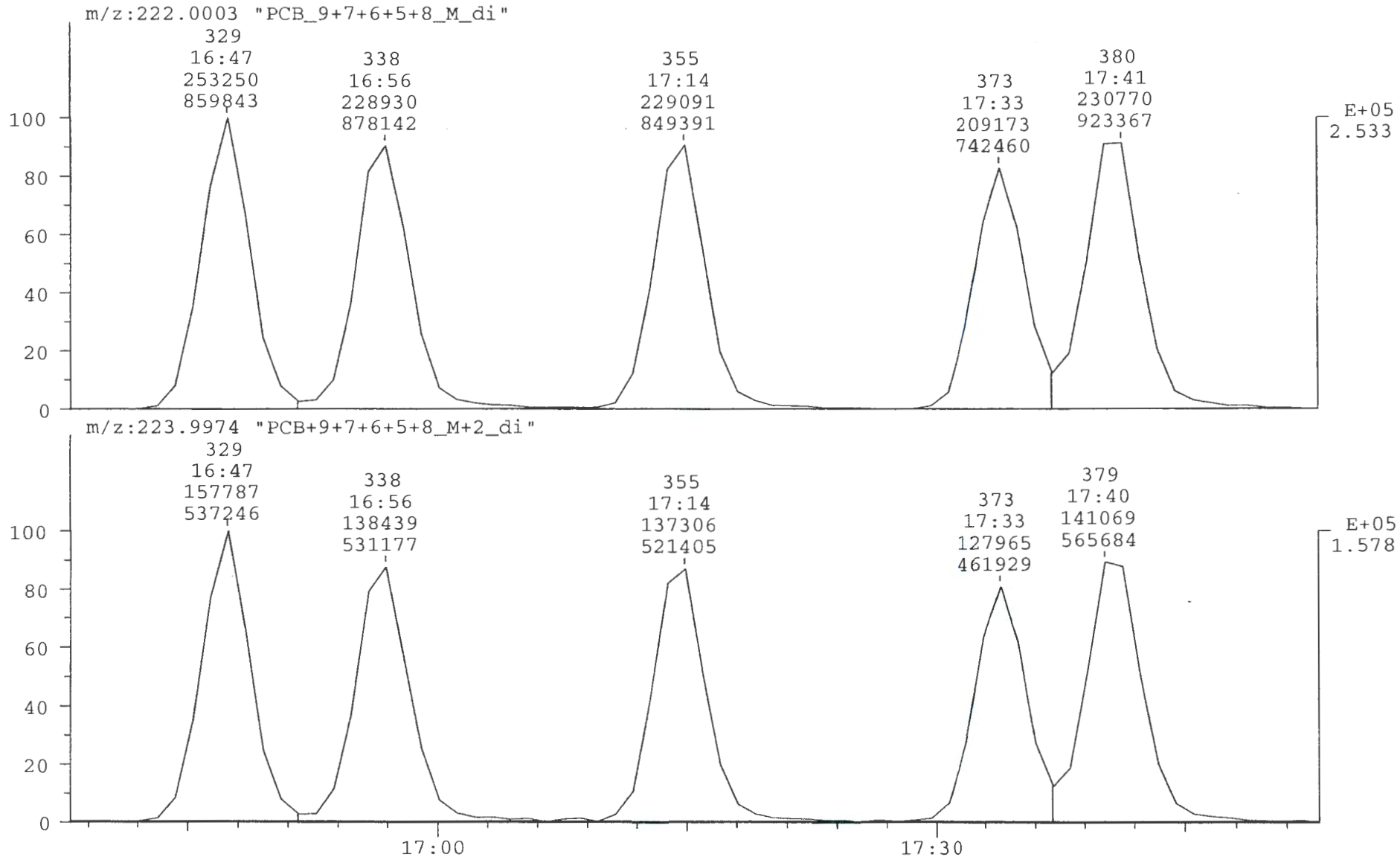


CHRO: a071012s1 12-Oct-07 Elapse: 14:51.2 219
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 194 > 249 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



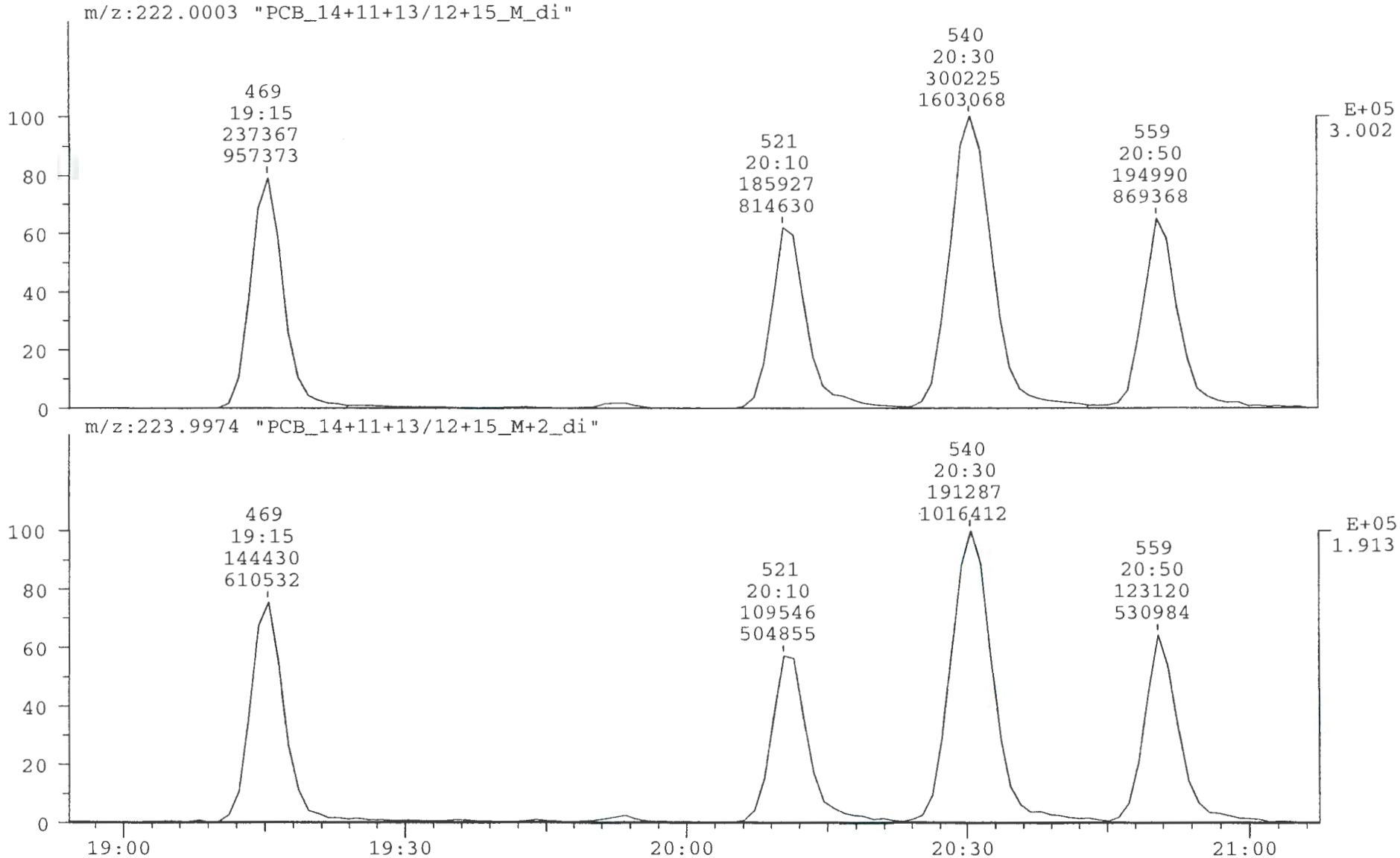
2686

```
CHRO:  a071012s1                                12-Oct-07  Elapse:  17:09.6     350
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   320 > 391            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



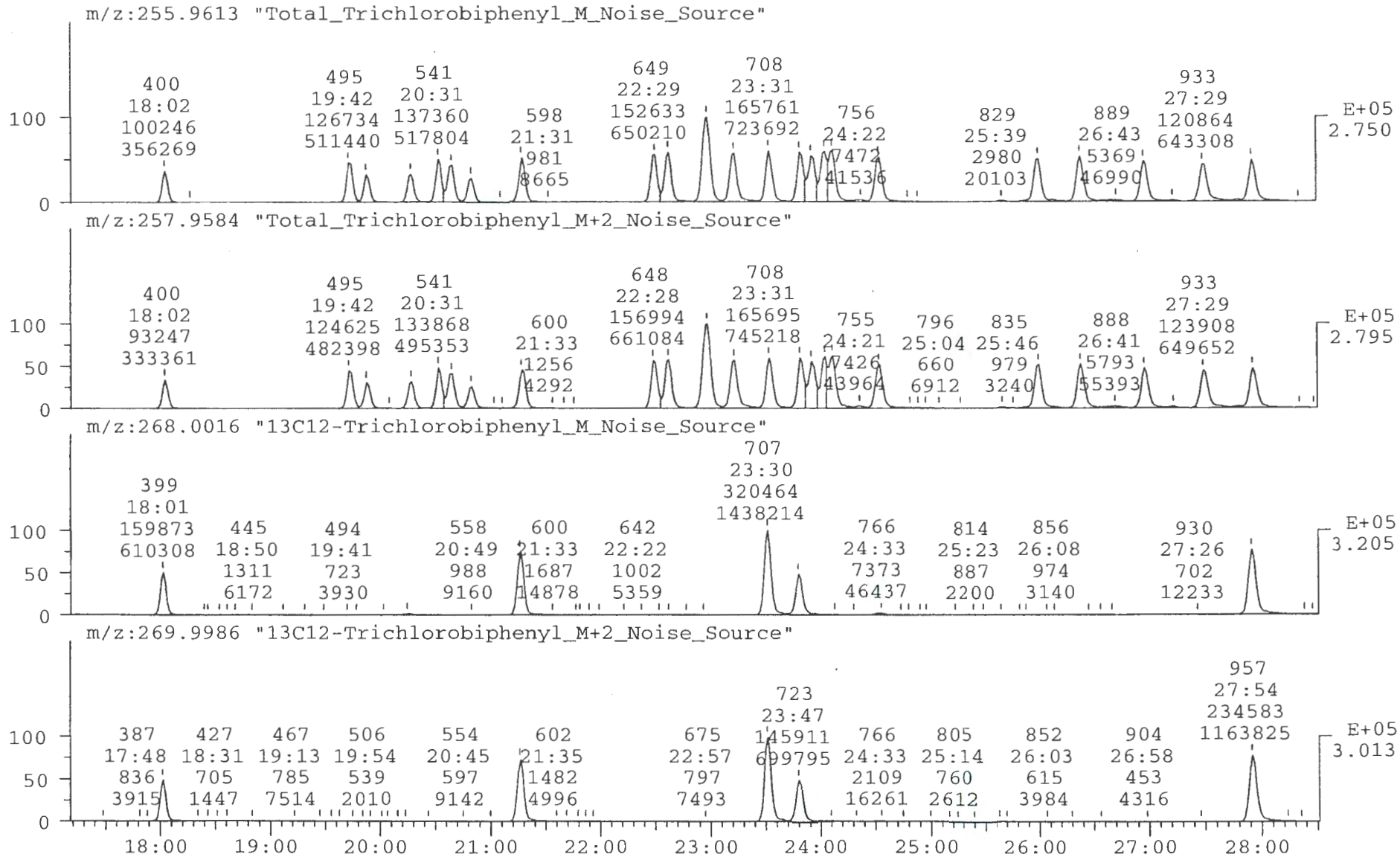
2687

```
CHRO:  a071012s1                                12-Oct-07   Elapse:  19:55.5      507
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   449 > 575             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```

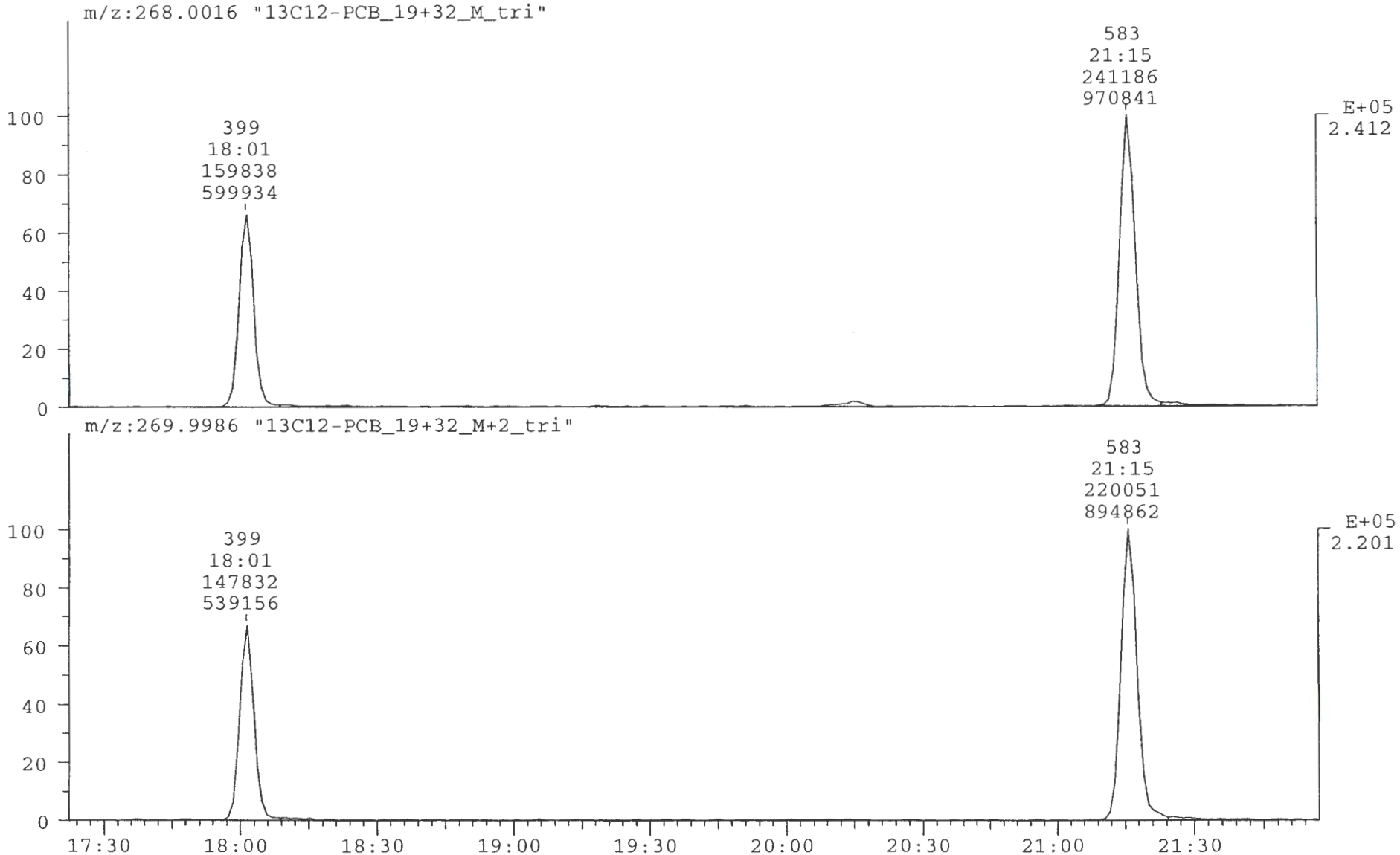


2688

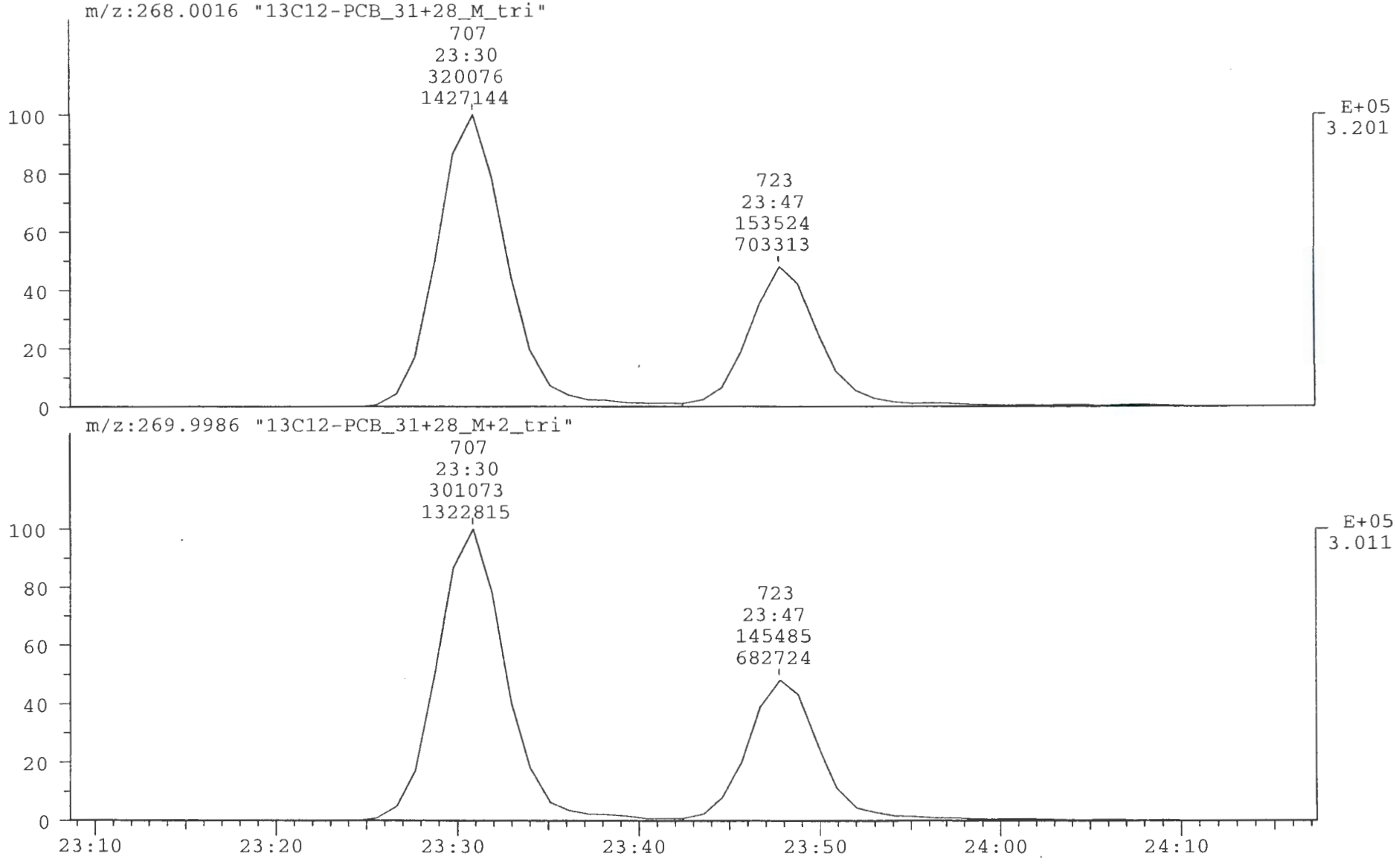
CHRO: a071012s1 12-Oct-07 Elapse: 22:52.8 671
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



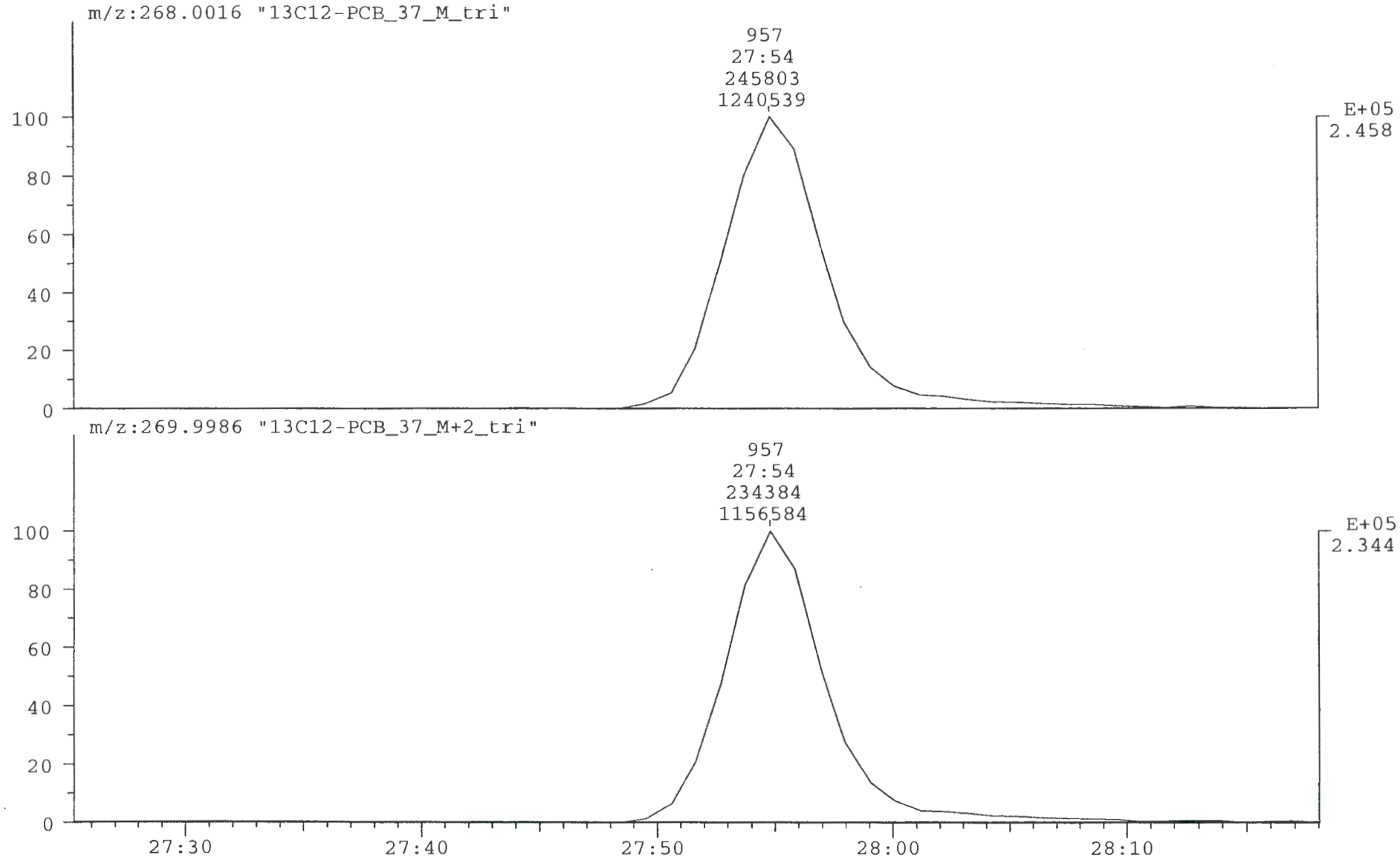
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  19:18.5      472
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   362 > 622             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



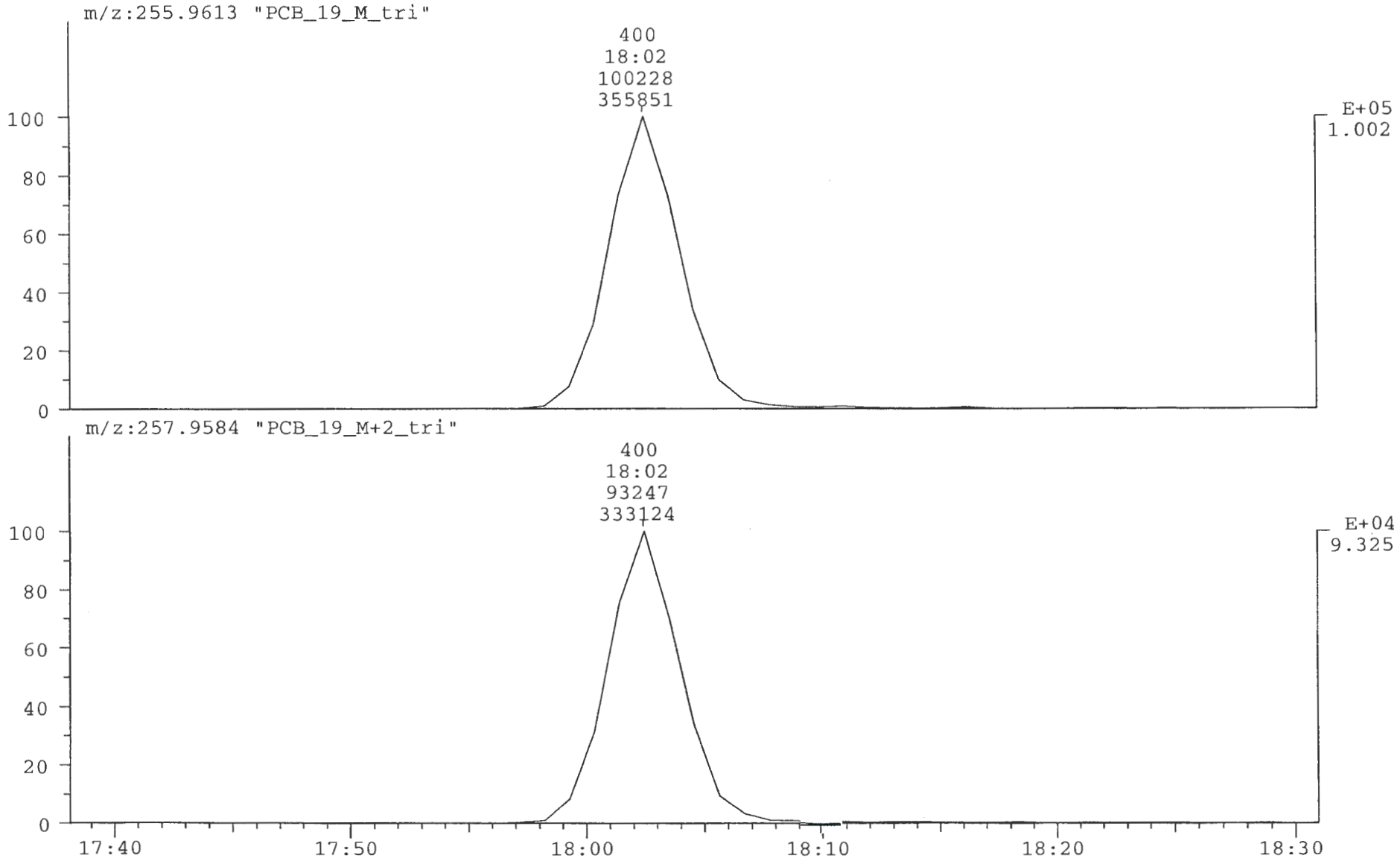
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  23:24.5      701
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   686 > 751             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071012s1                                12-Oct-07   Elapse:  27:46.3      949
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   929 > 979             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

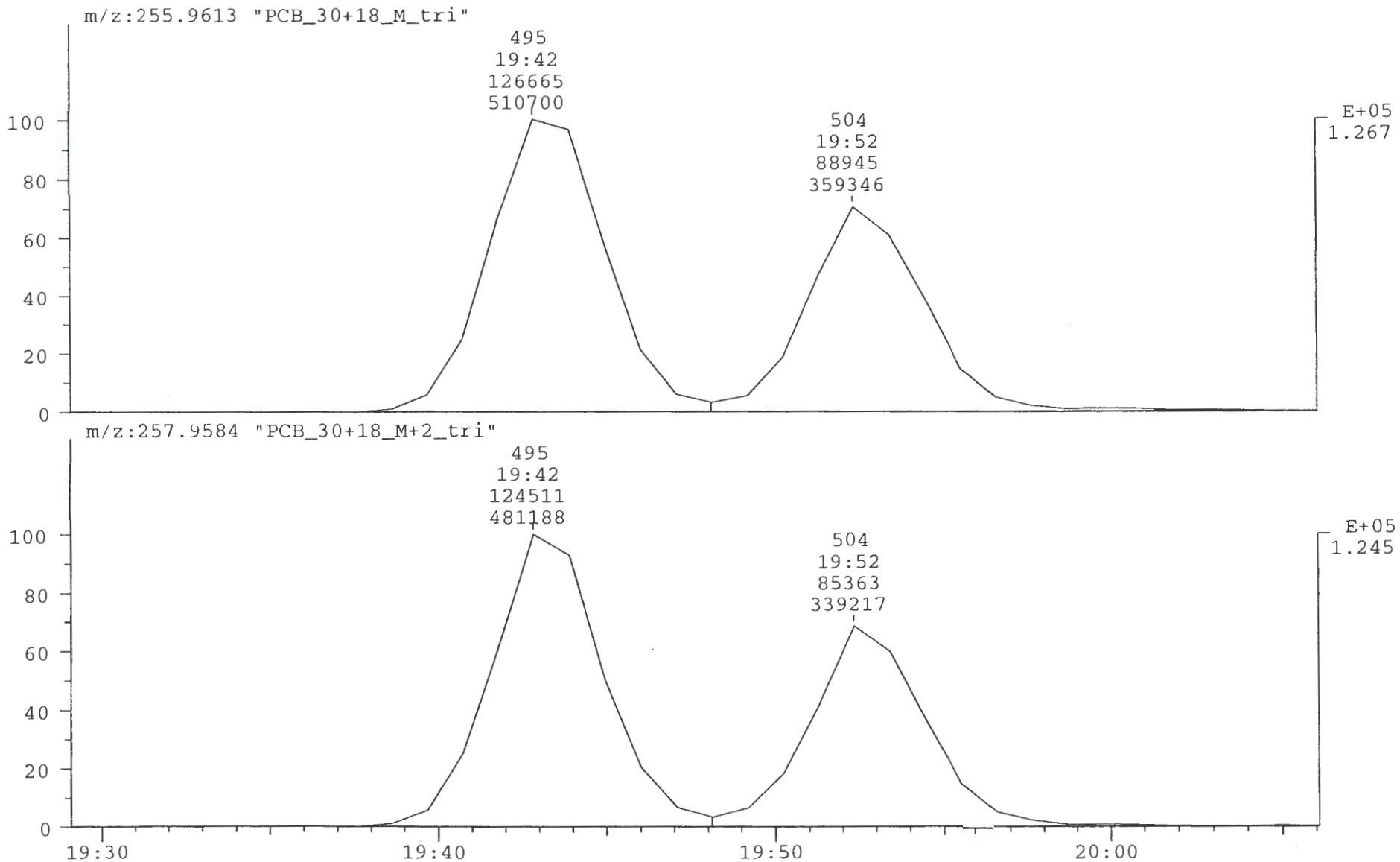


```
CHRO:  a071012s1                              12-Oct-07   Elapse:  17:54.9      392
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   377 > 427           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

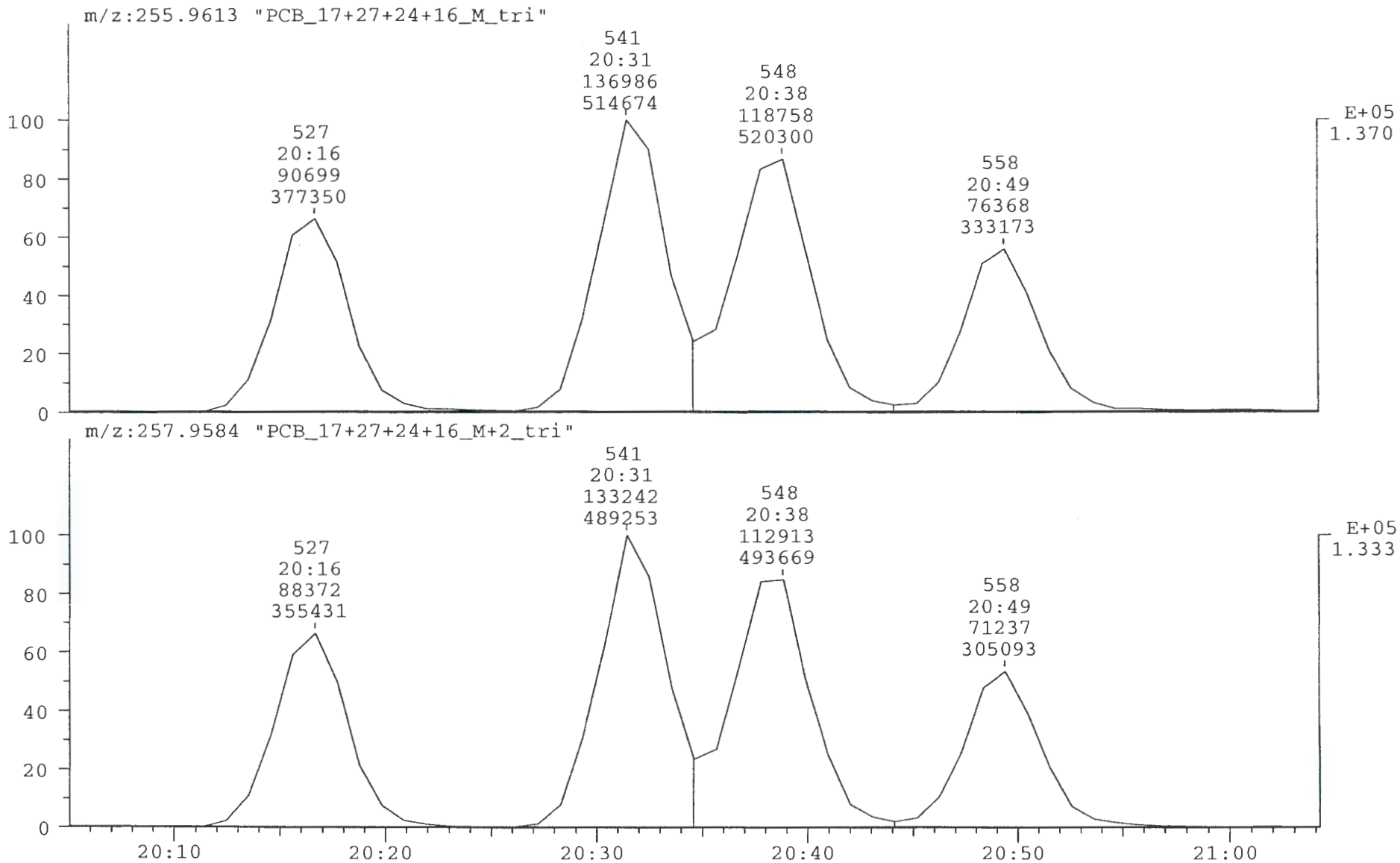


2693

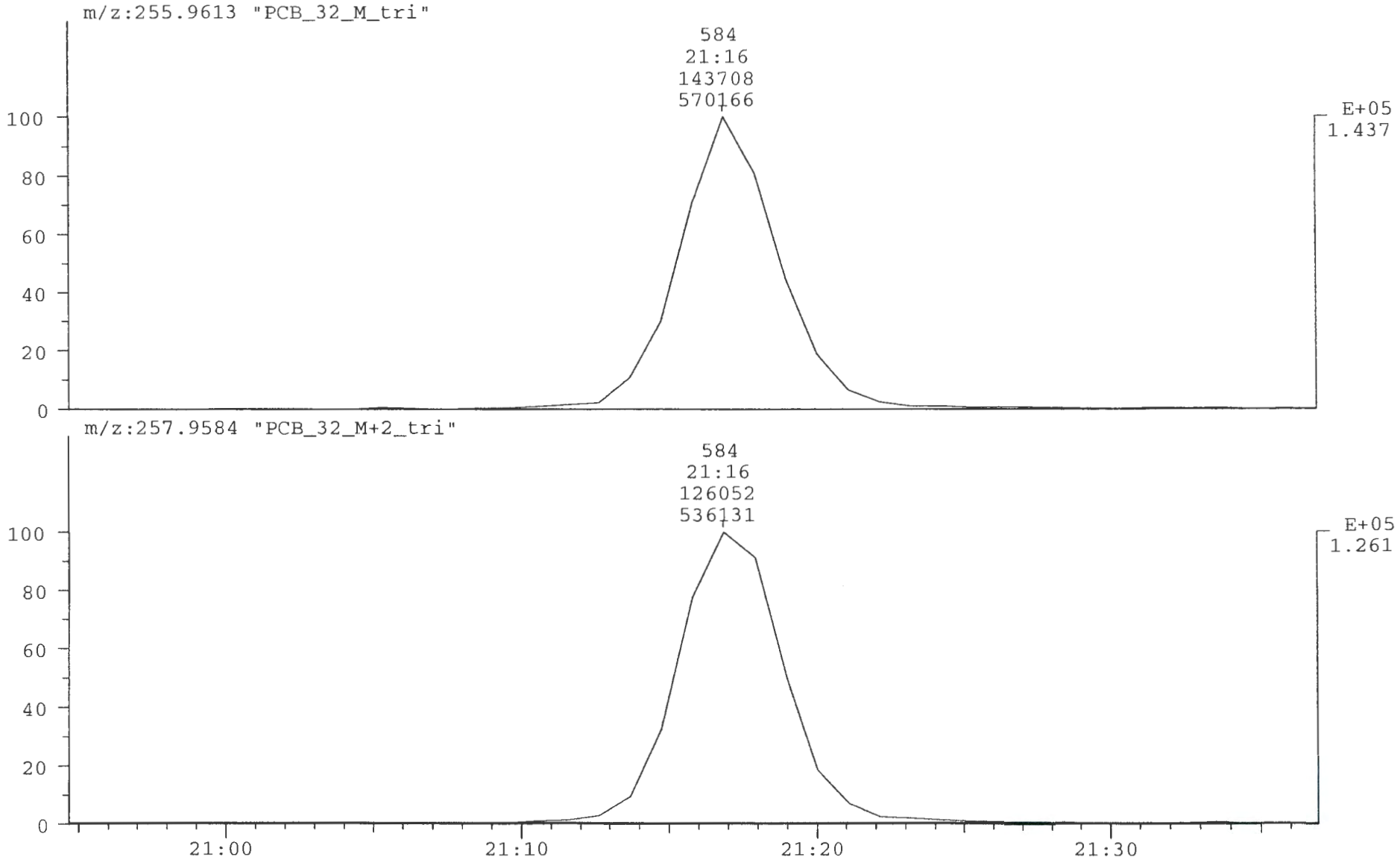
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  19:44.9      497
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   482 > 517             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071012s1                                12-Oct-07   Elapse:  20:27.2      537
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   516 > 572             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

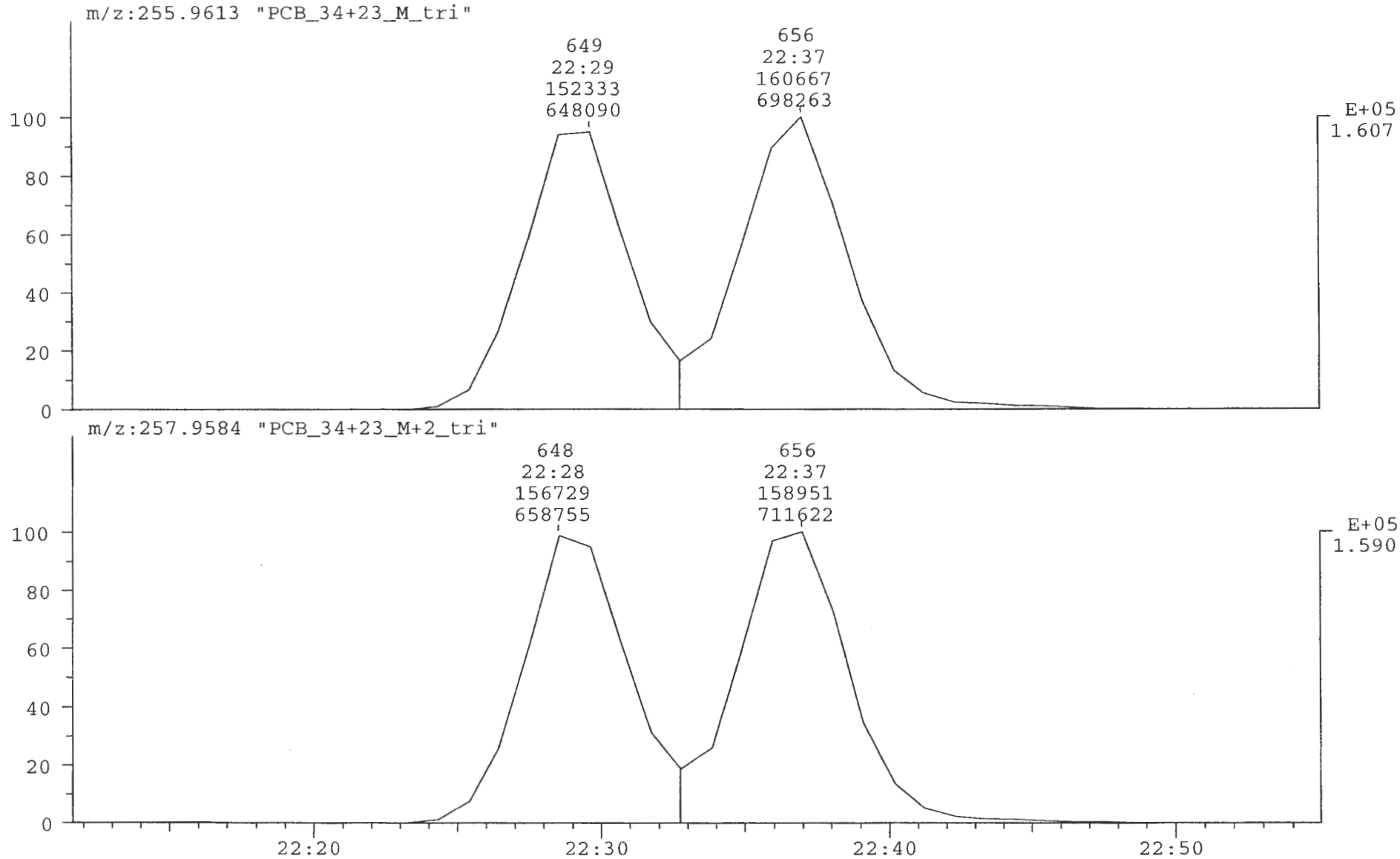


```
CHRO:  a071012s1                                12-Oct-07   Elapse:  21:10.5      578
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   563 > 603             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

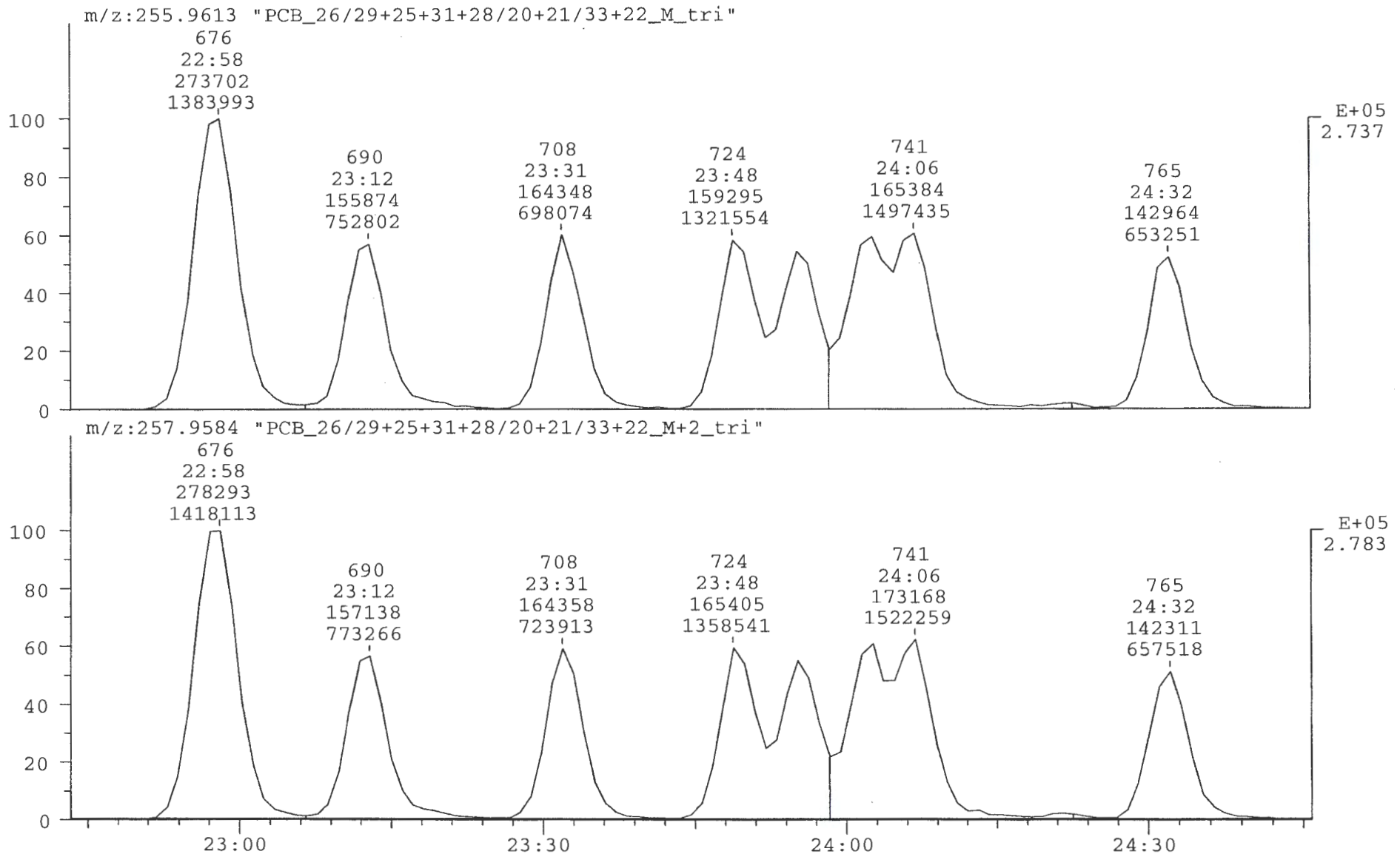


2696

```
CHRO:  a071012s1                              12-Oct-07  Elapse:  22:24.3      644
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                  Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville              Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   632 > 673          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```

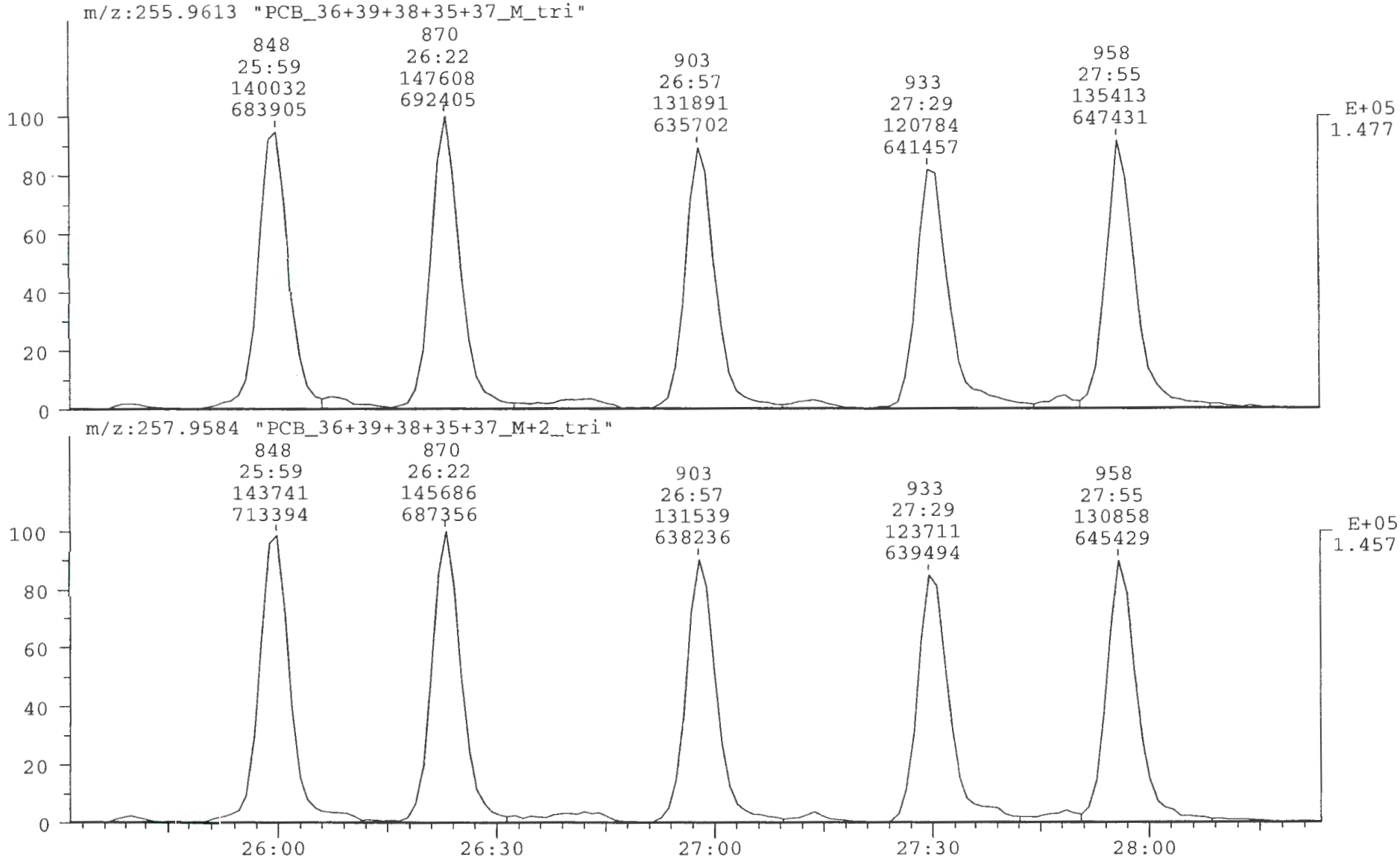


```
CHRO:  a071012s1                                12-Oct-07   Elapse:  23:55.1      730
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   662 > 778             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 8                Label :  -3, 3.0
Disp:  Height  Area
```

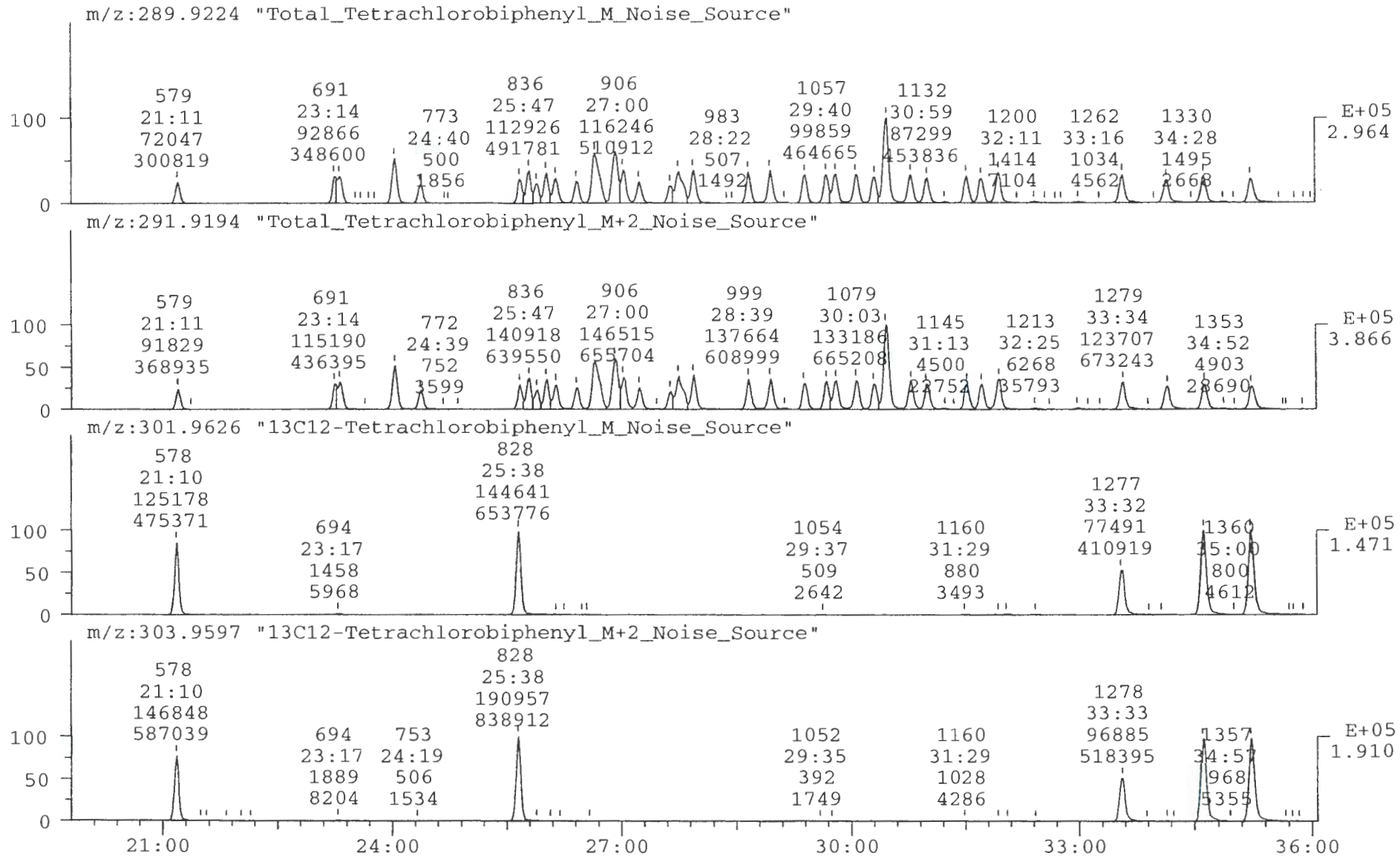


2698

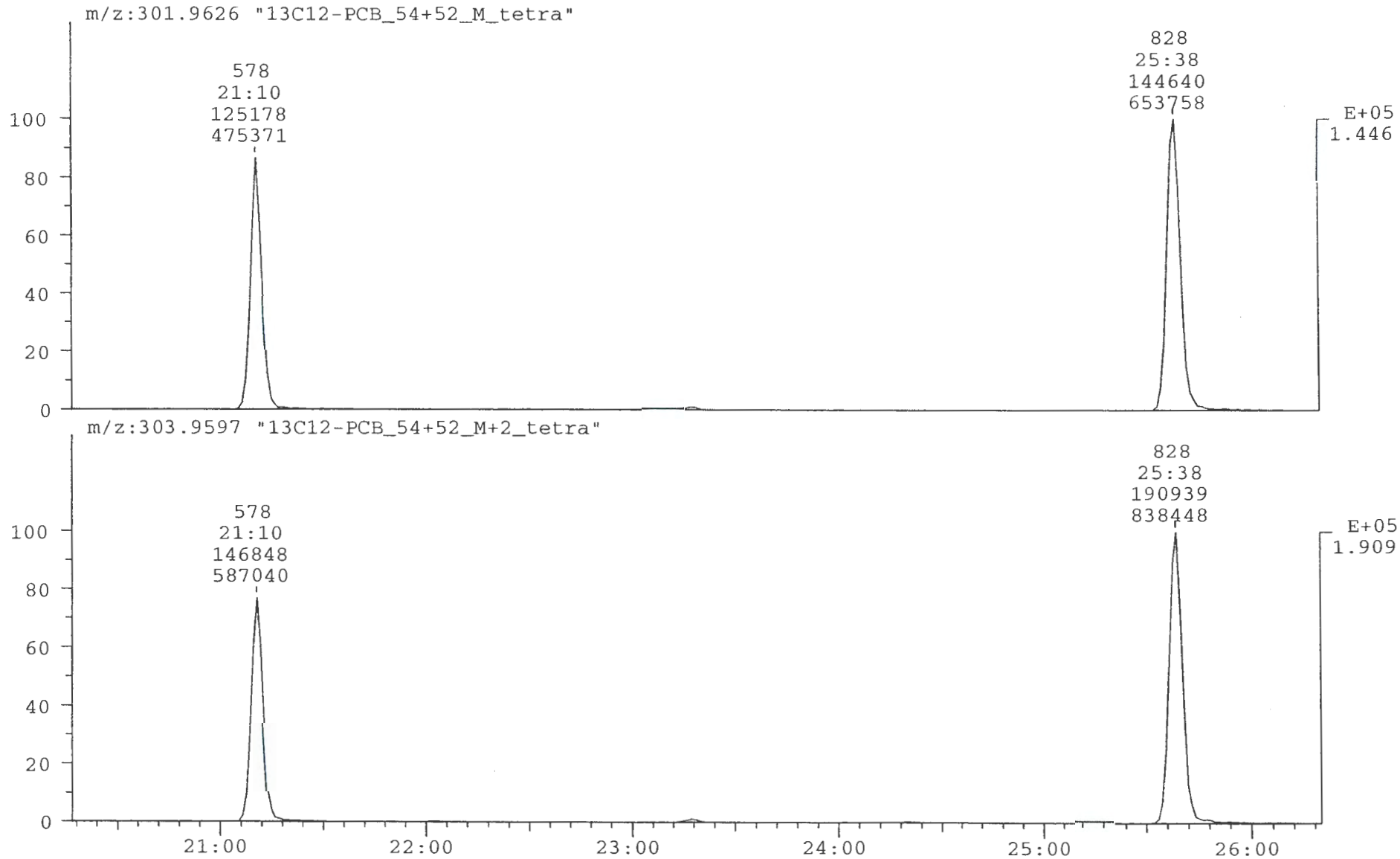
CHRO: a071012s1 12-Oct-07 Elapse: 26:53.6 899
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 821 > 984 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



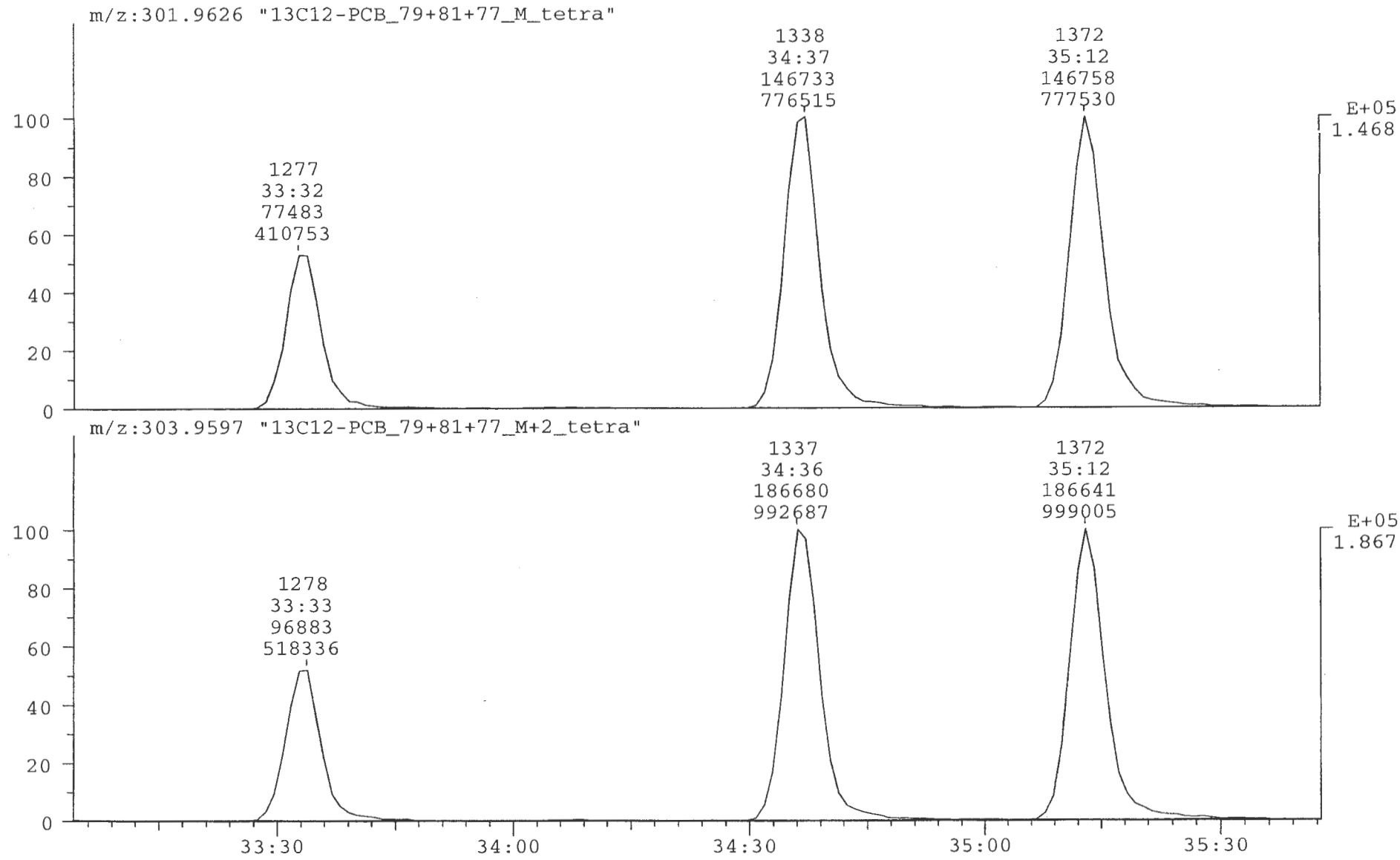
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  27:55.8      958
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   500 > 1420            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



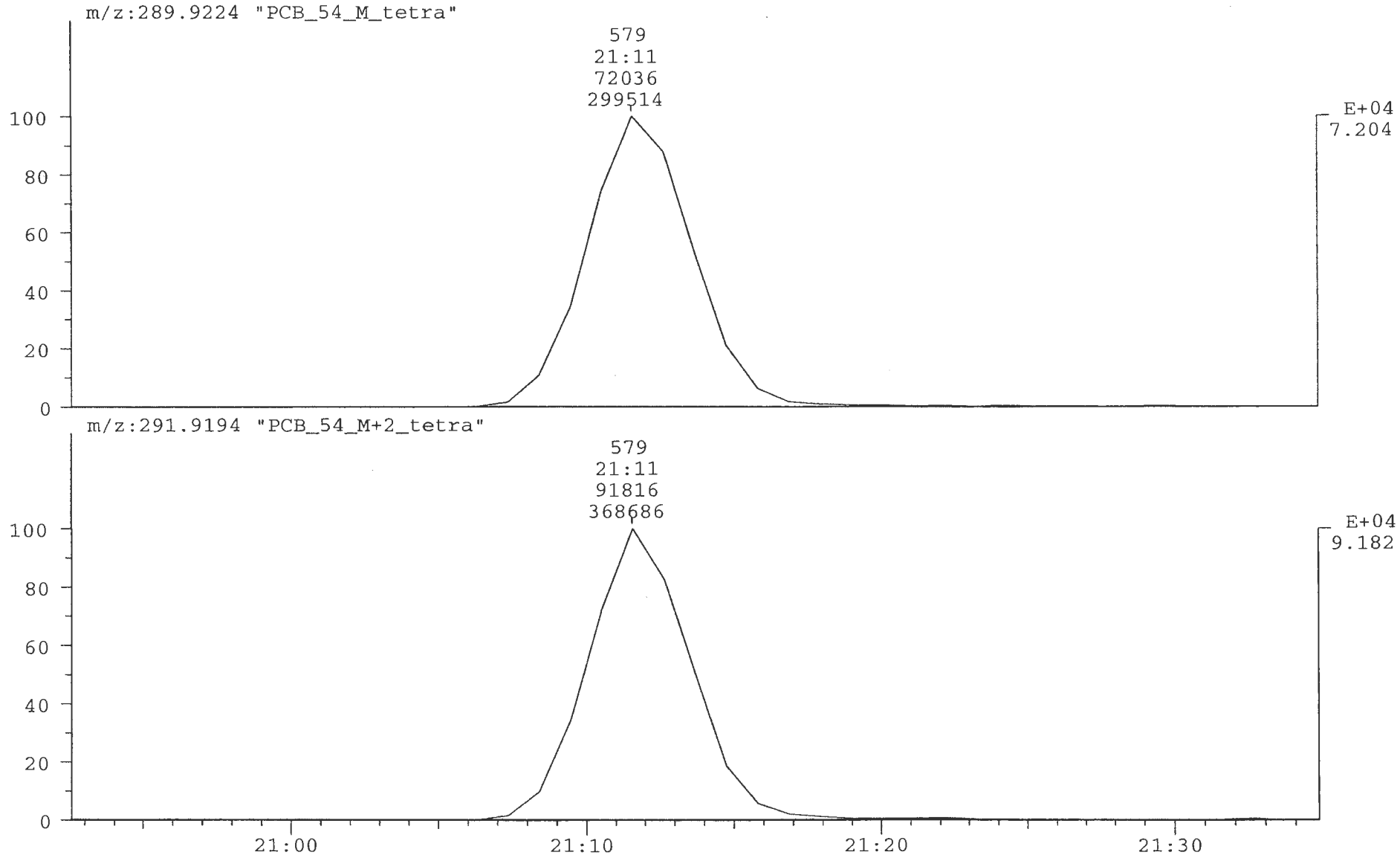
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  23:20.3      697
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



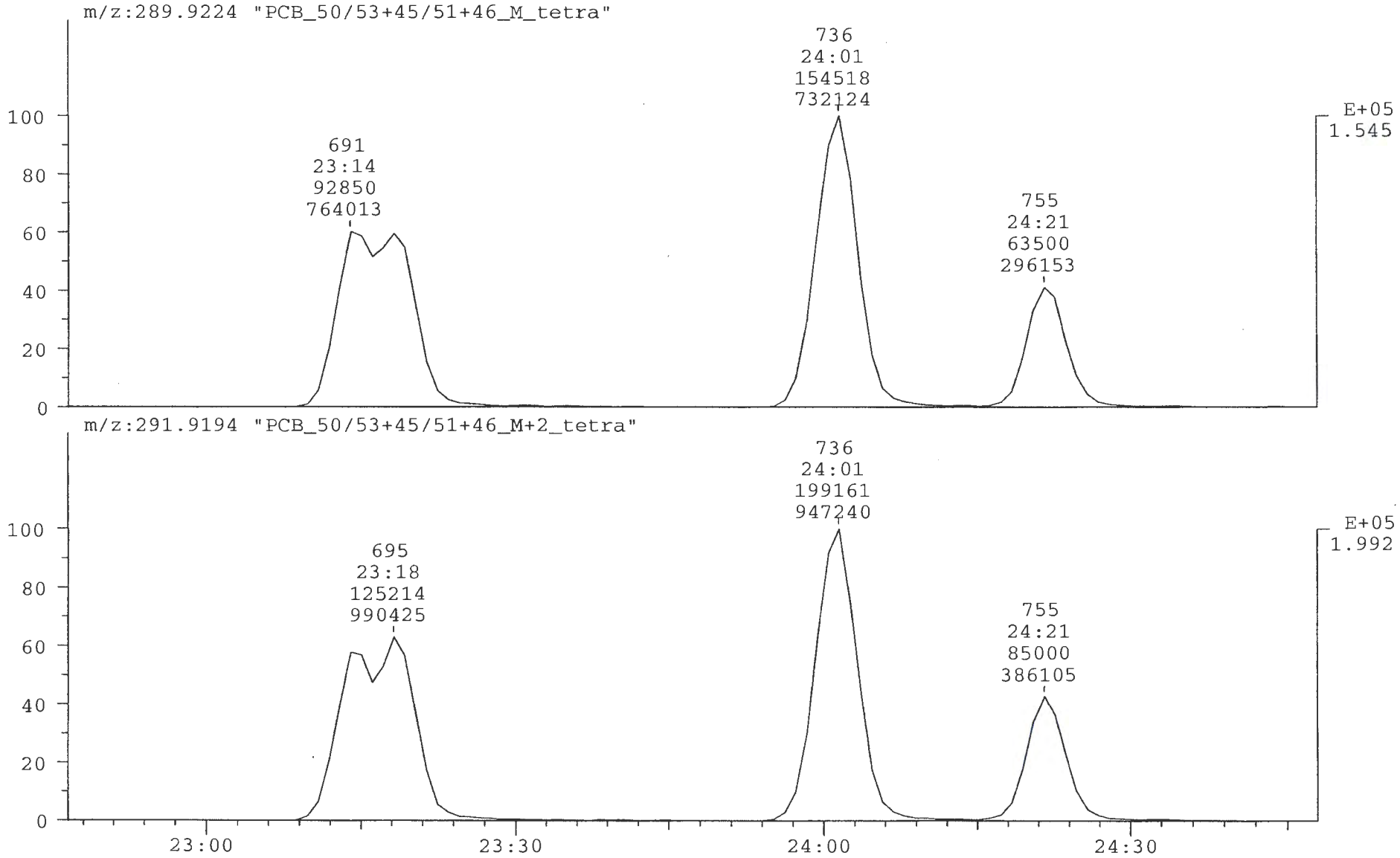
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  34:14      1317
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1250 > 1400           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



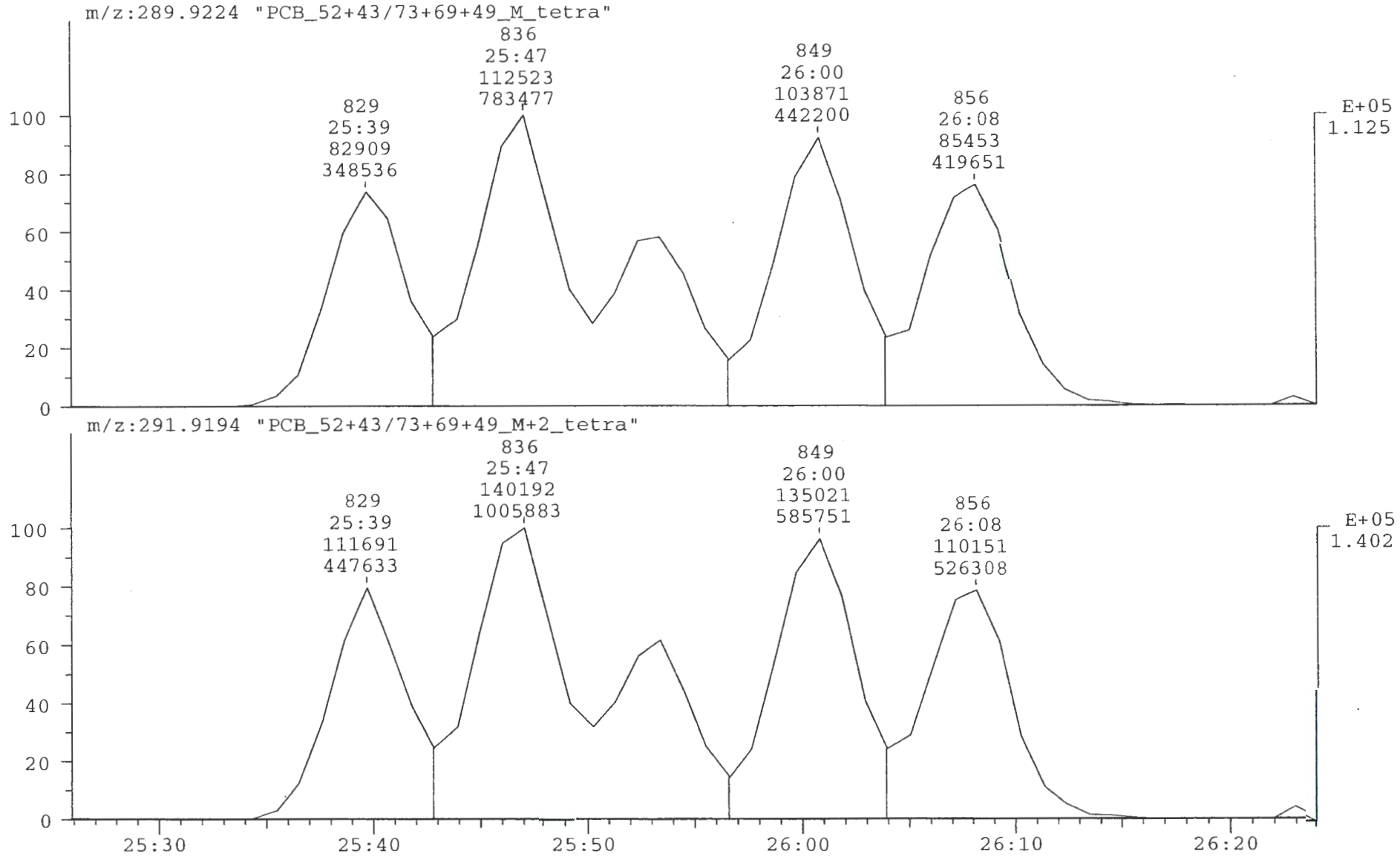
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  21:03.1      571
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   561 > 601             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



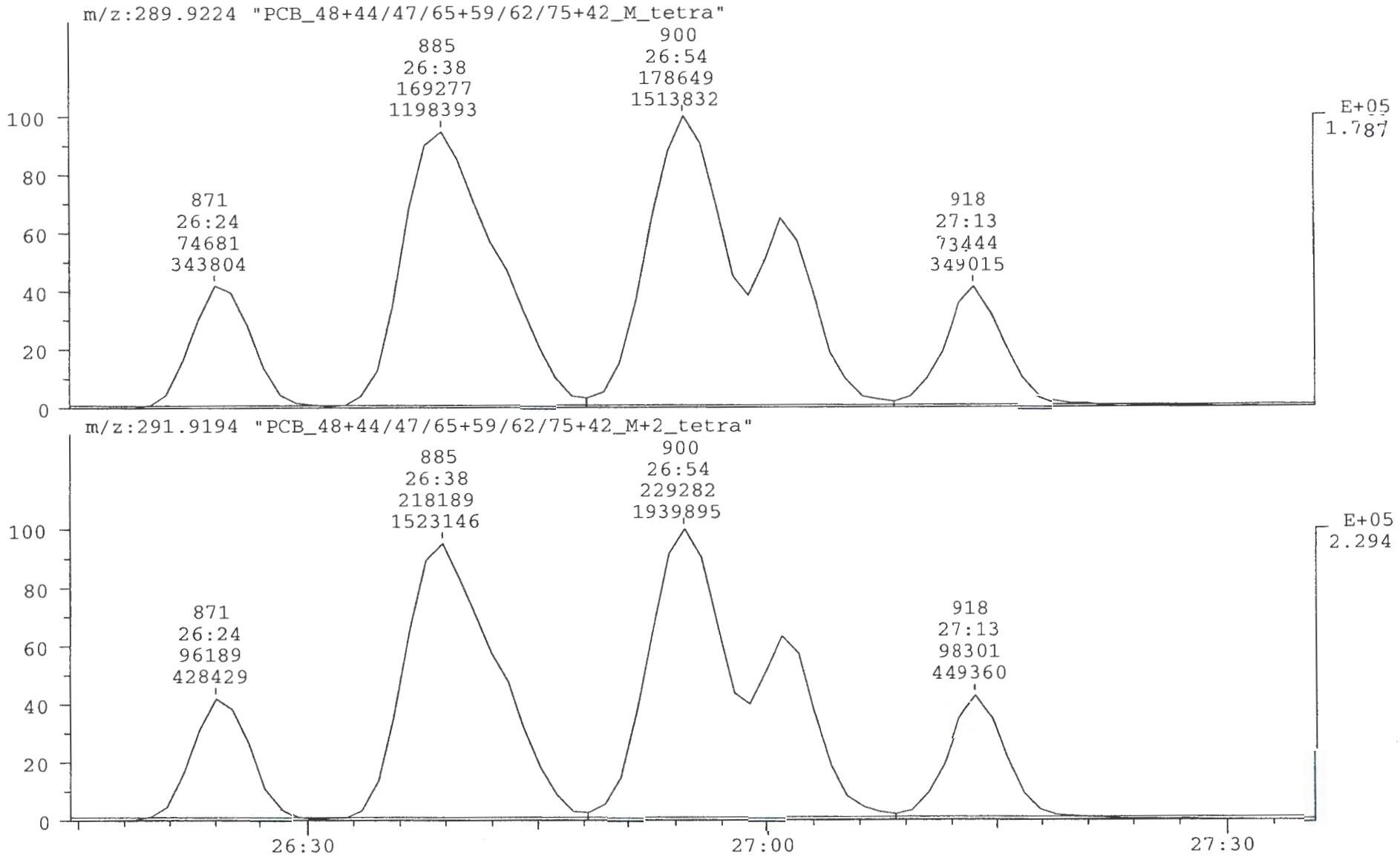
CHRO: a071012s1 12-Oct-07 Elapse: 23:49.8 725
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 665 > 780 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



CHRO: a071012s1 12-Oct-07 Elapse: 25:52.3 841
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 816 > 871 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area

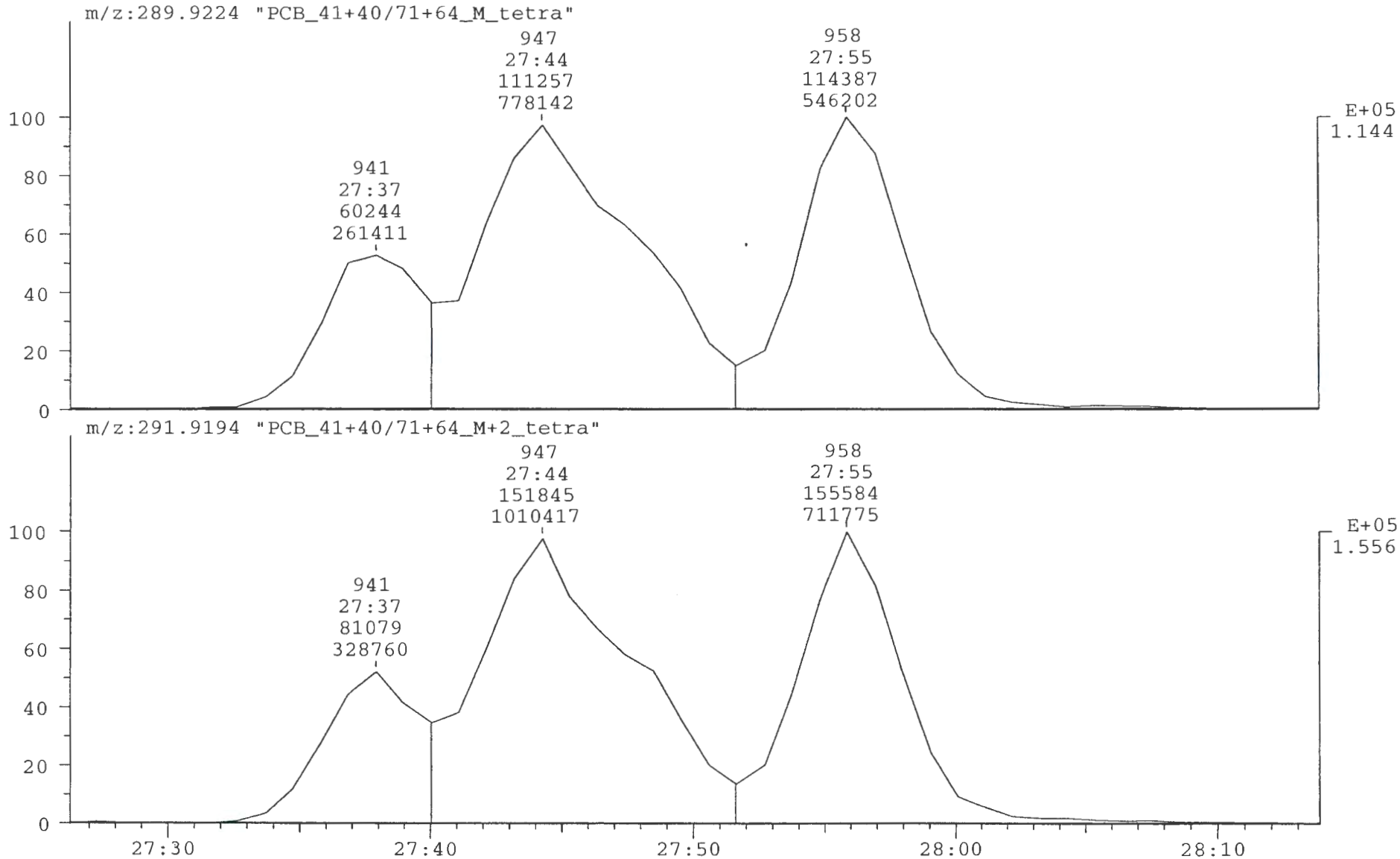


CHRO: a071012s1 12-Oct-07 Elapse: 26:46.2 892
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 862 > 939 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



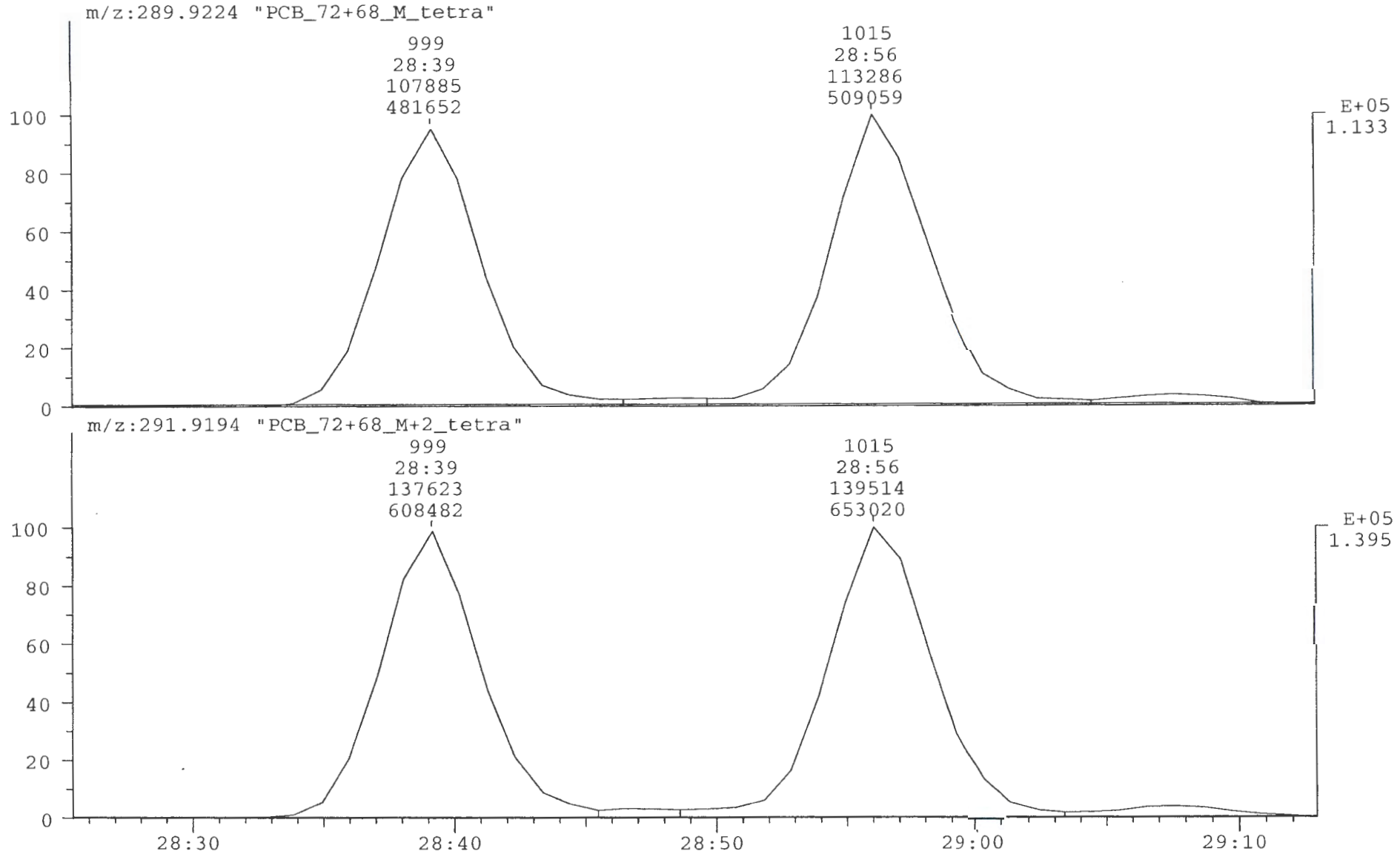
2706

```
CHRO:  a071012s1                                12-Oct-07   Elapse:  27:47.4      950
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   930 > 975             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```

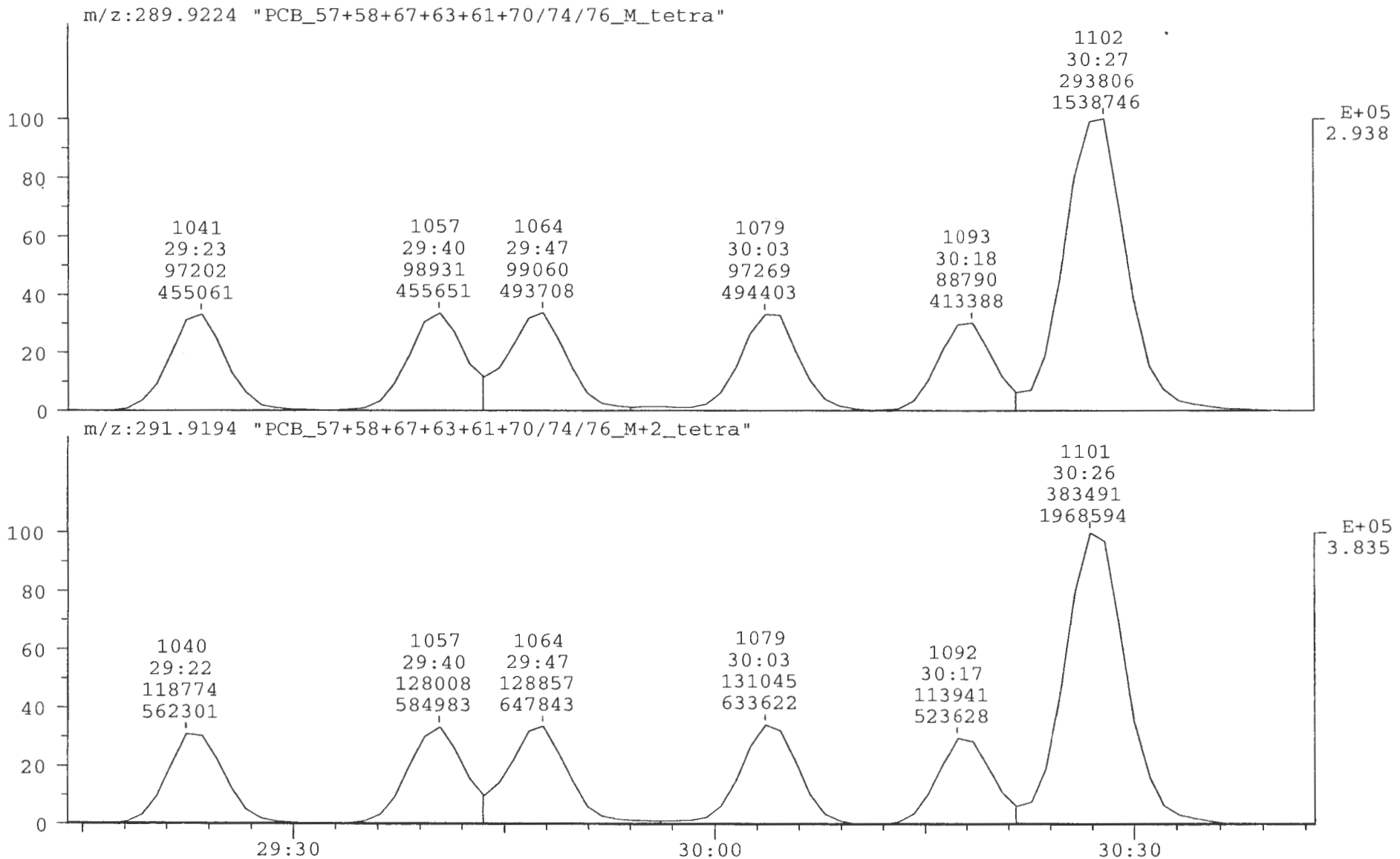


2707

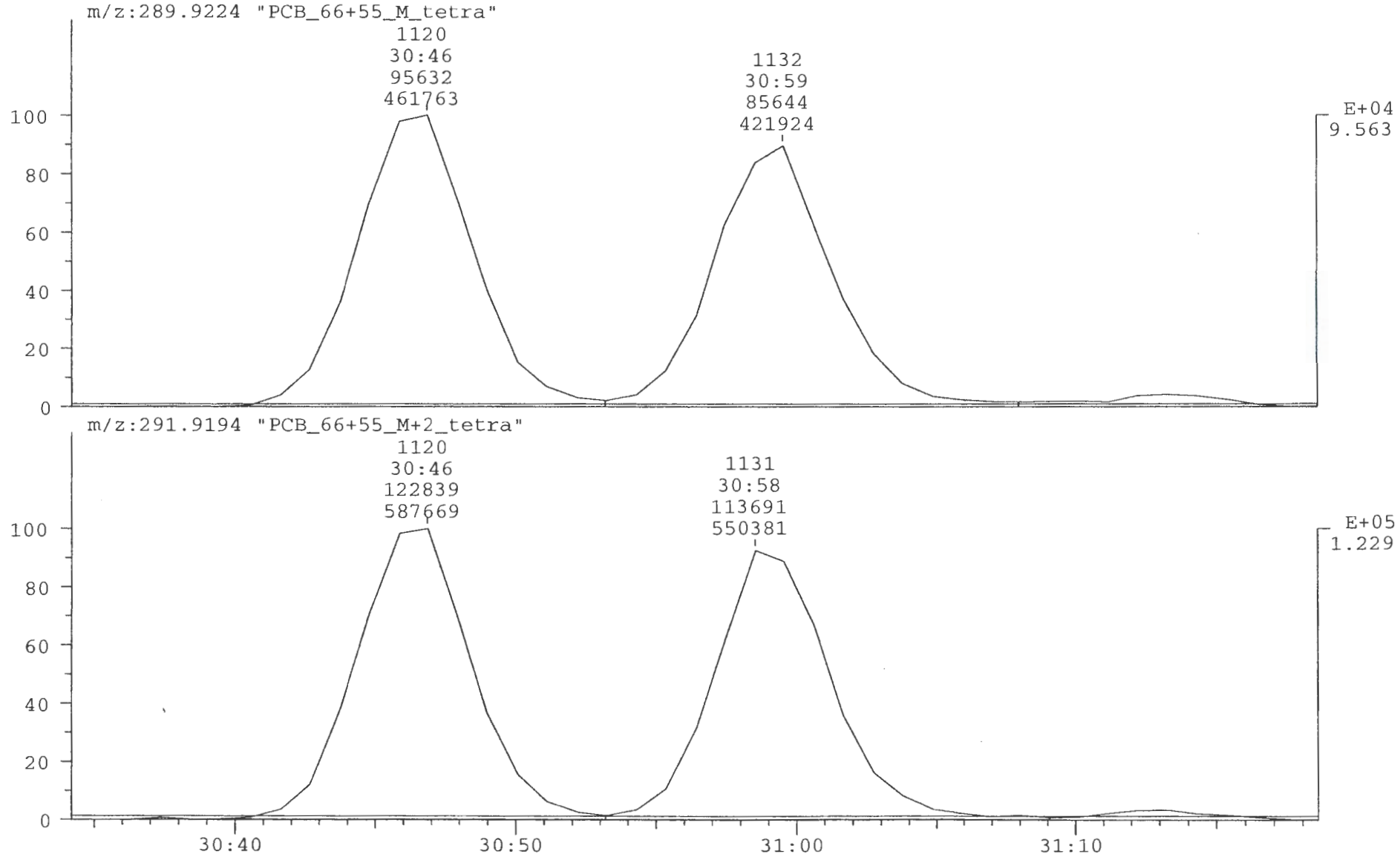
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  28:46      1006
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   986 > 1031            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



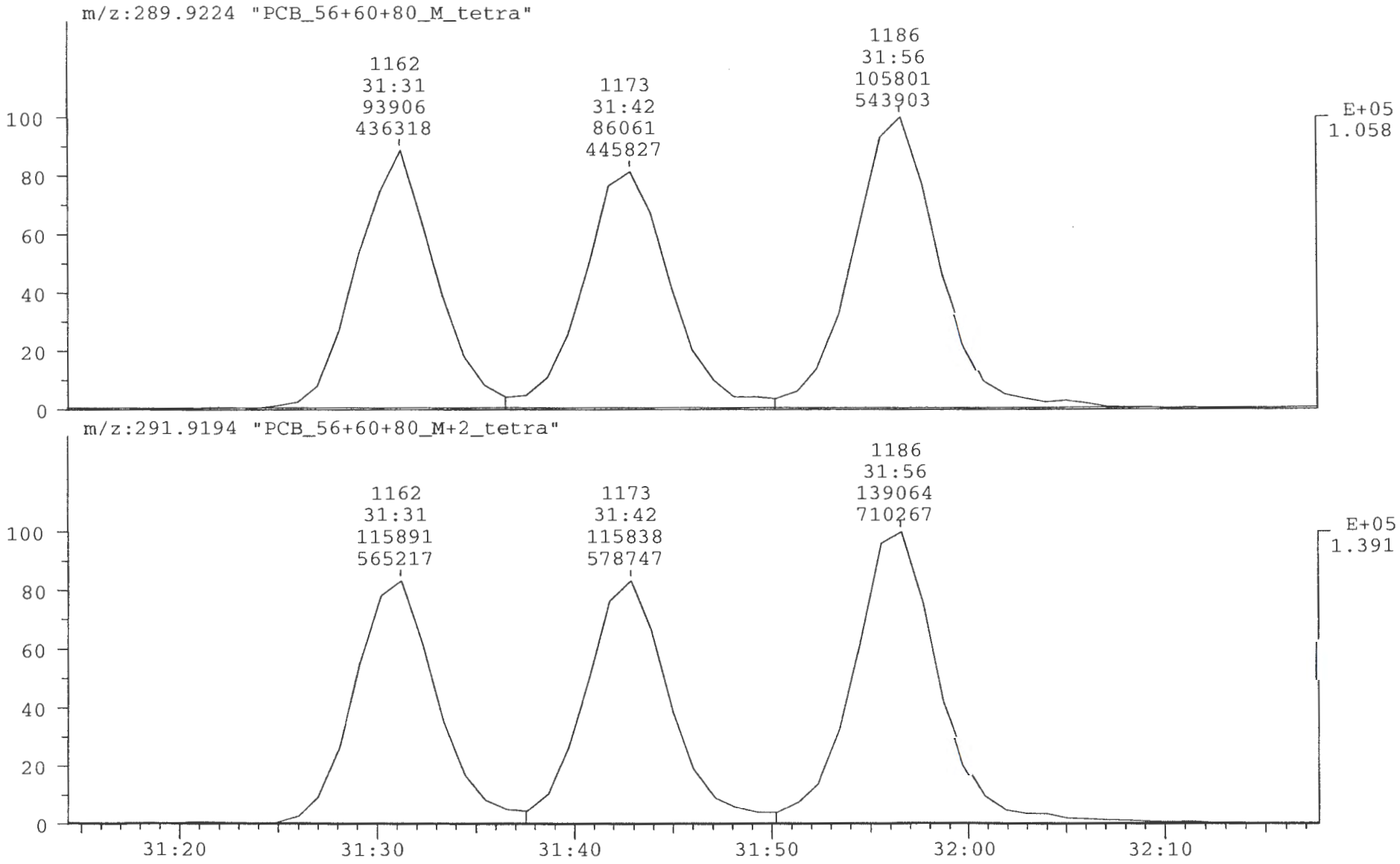
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  29:53      1069
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1032 > 1116           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



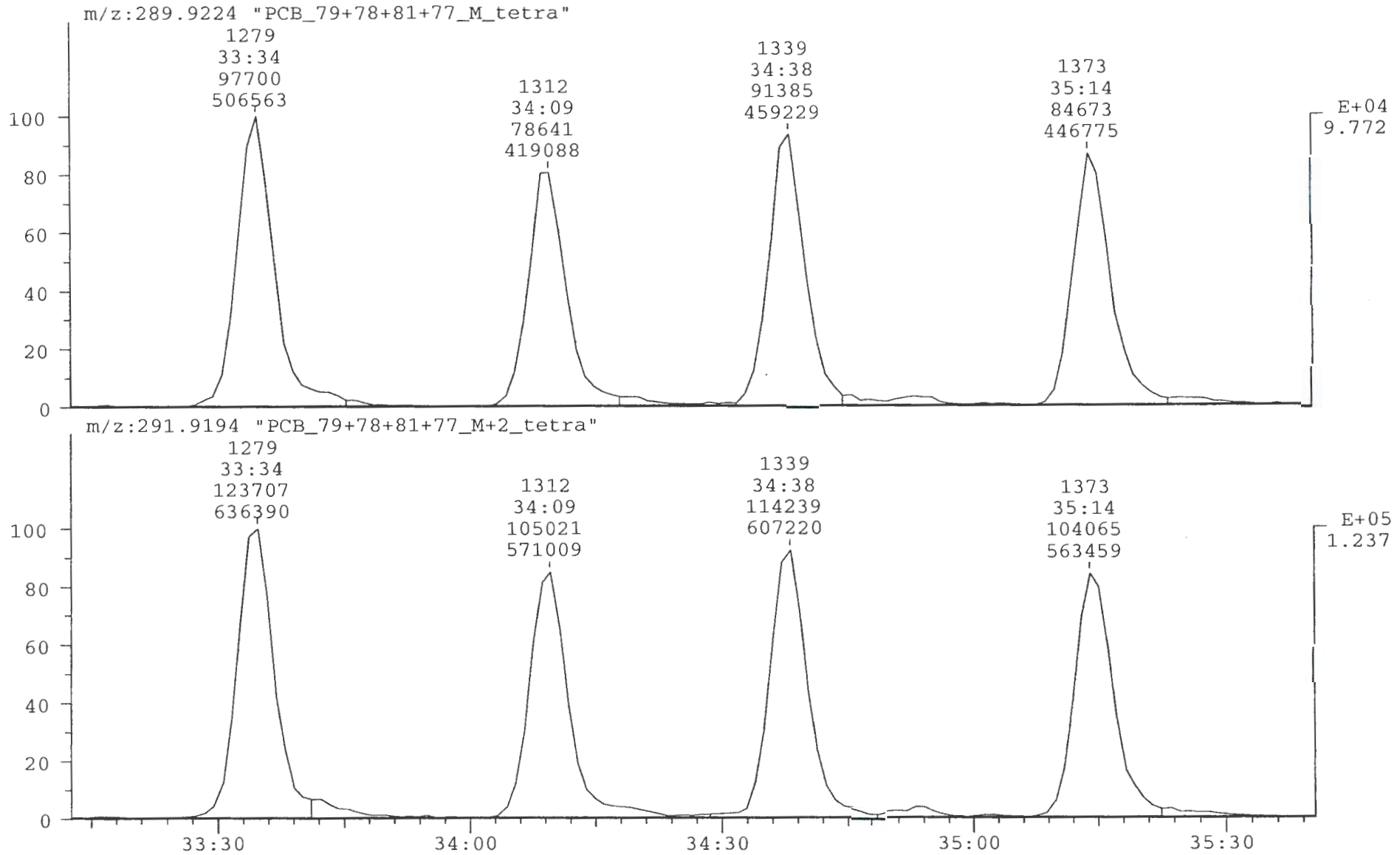
```
CHRO:  a071012s1                                12-Oct-07  Elapse:  30:50      1123
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1108 > 1150          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



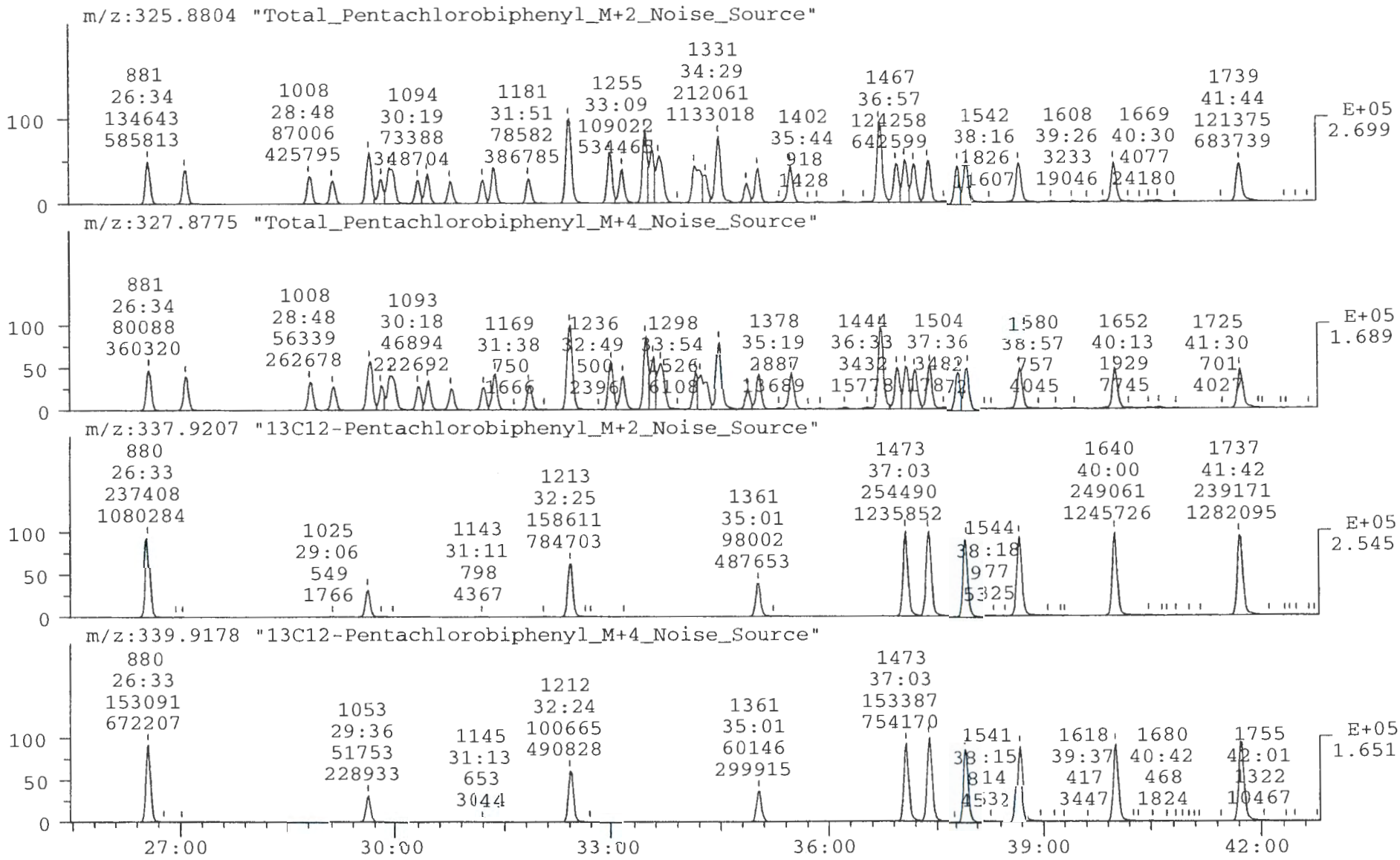
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  31:40      1171
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1146 > 1206           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



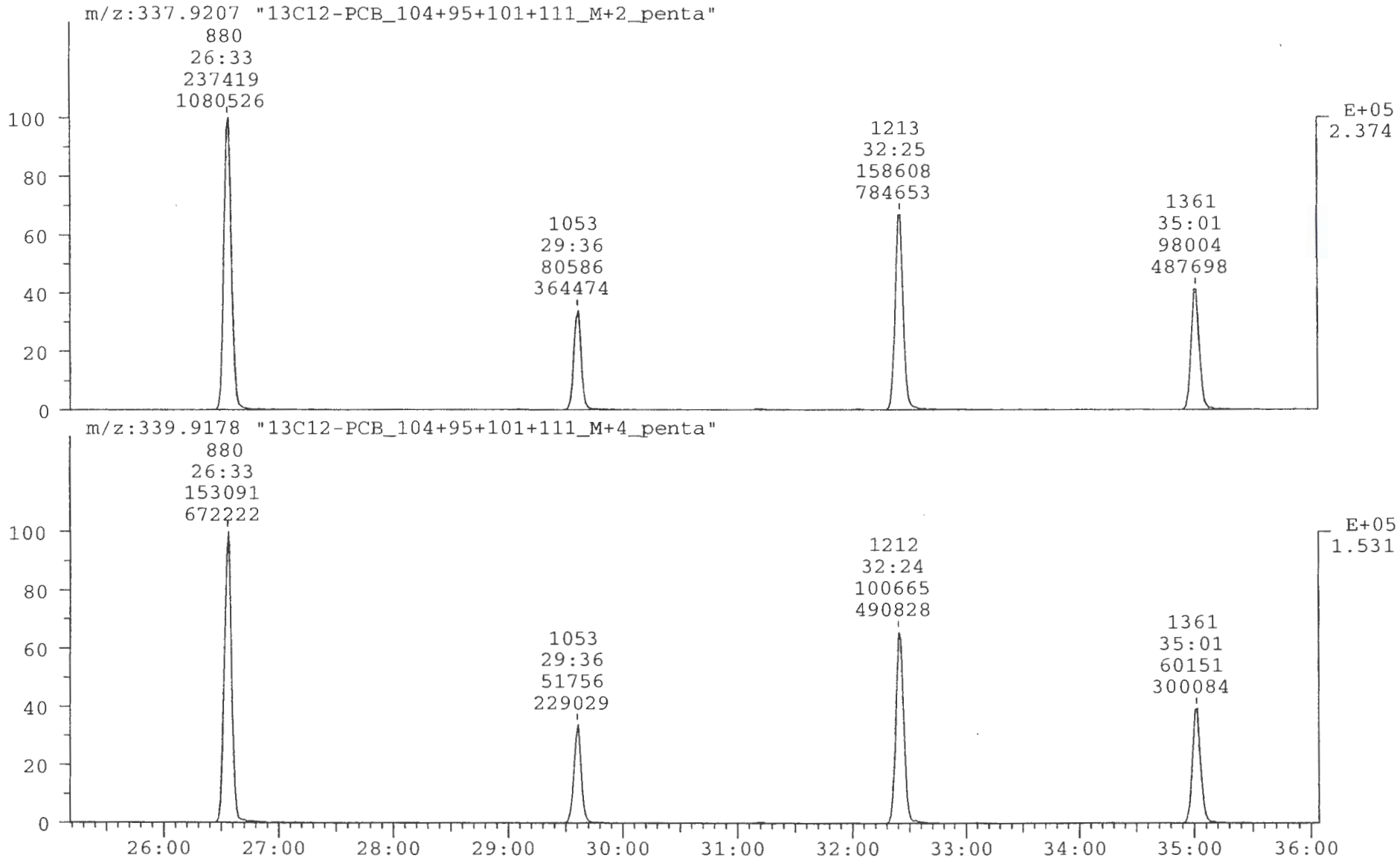
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  34:15      1318
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1258 > 1398           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



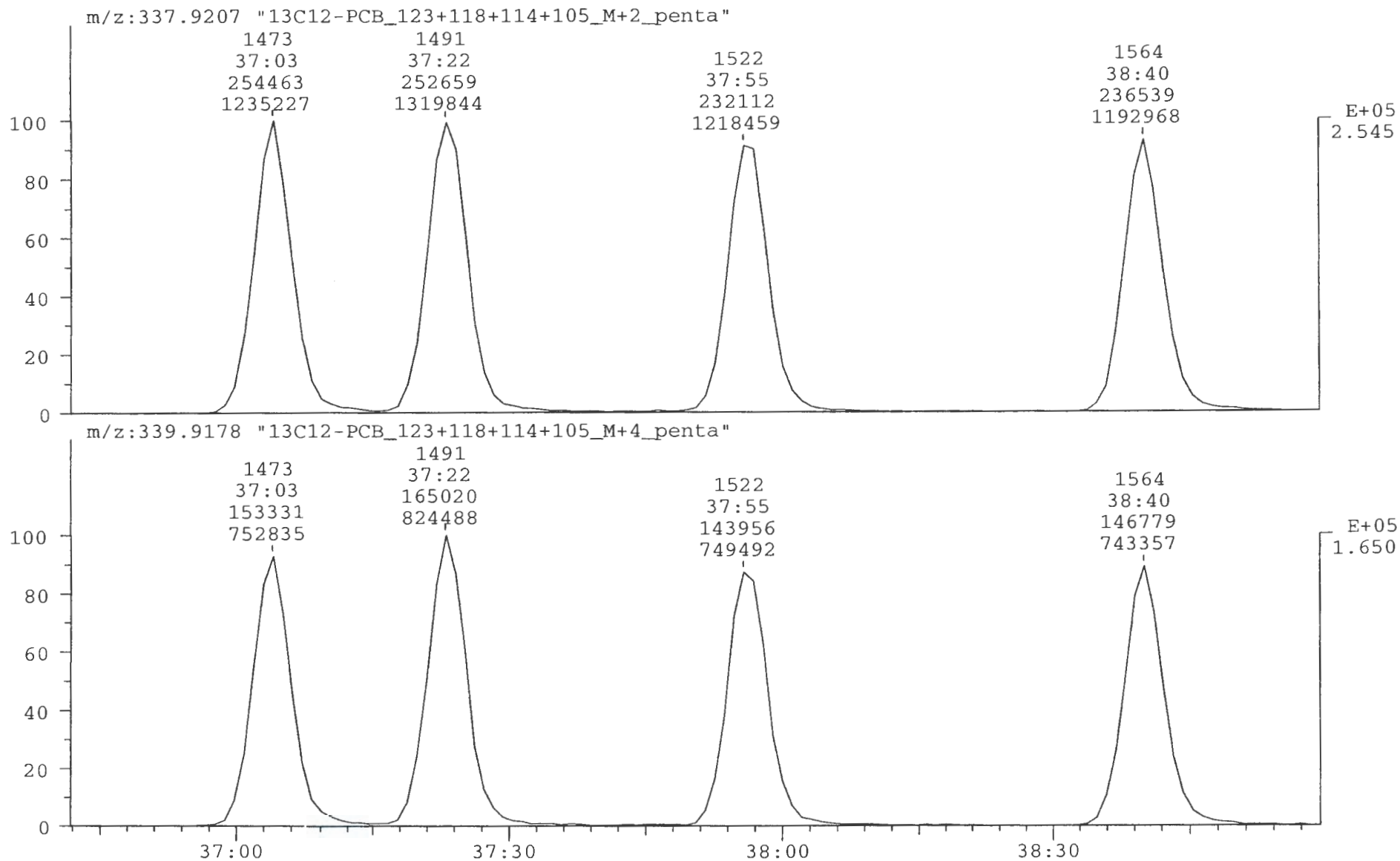
CHRO: a071012s1 12-Oct-07 Elapse: 34:07 1310
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 818 > 1799 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



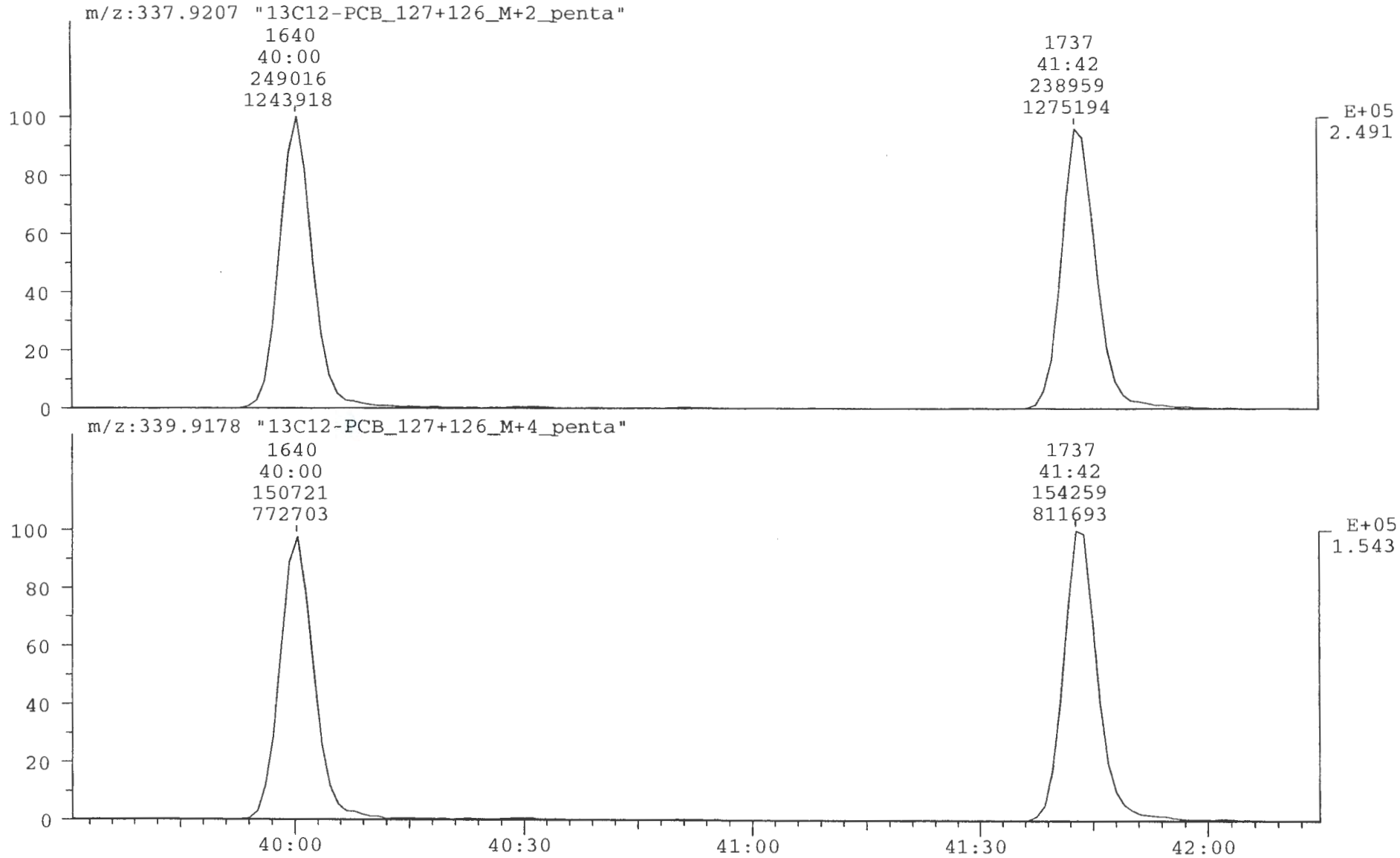
```
CHRO:  a071012s1                              12-Oct-07   Elapse:  30:37      1111
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   802 > 1420          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



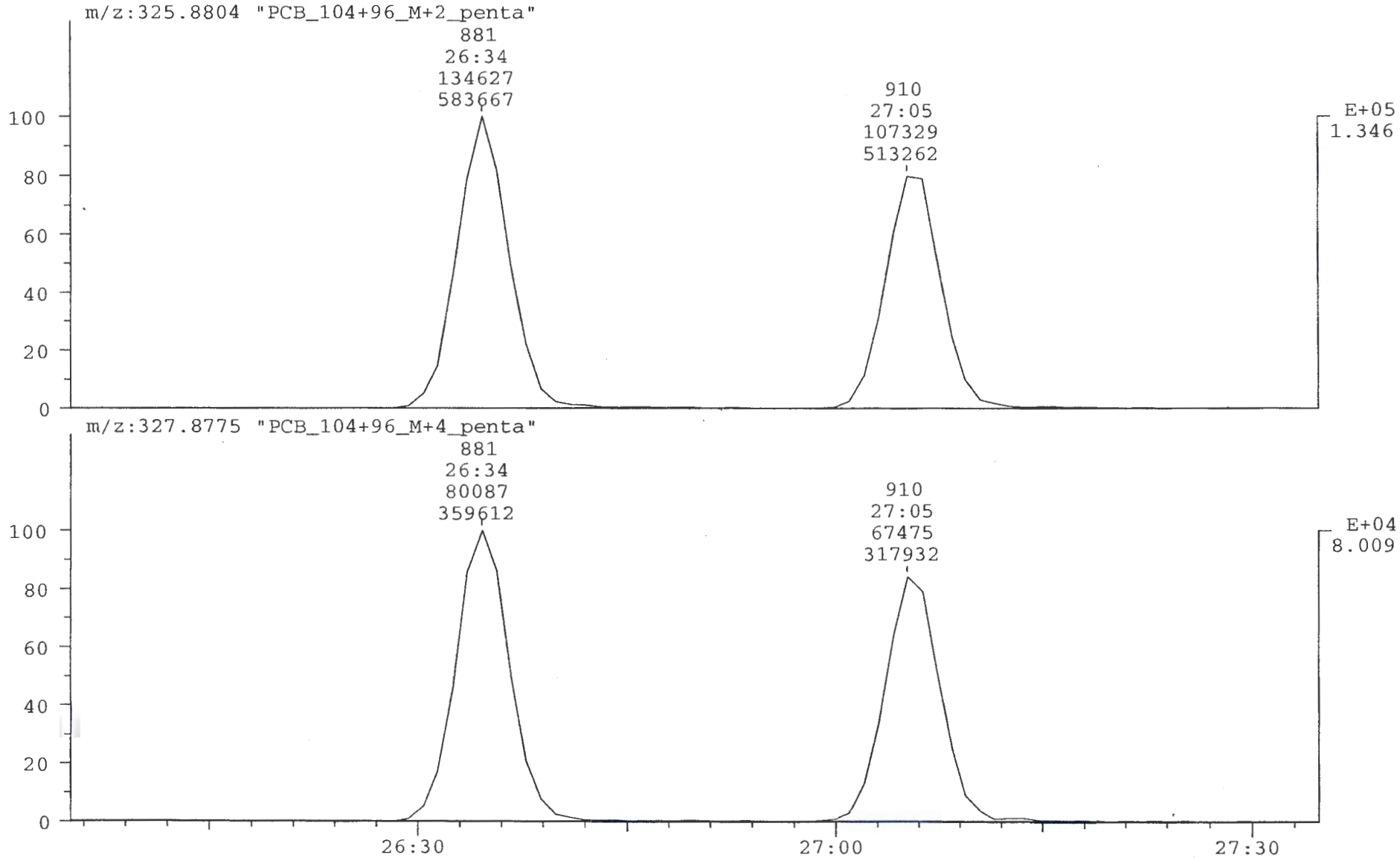
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  37:50      1517
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1452 > 1582           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



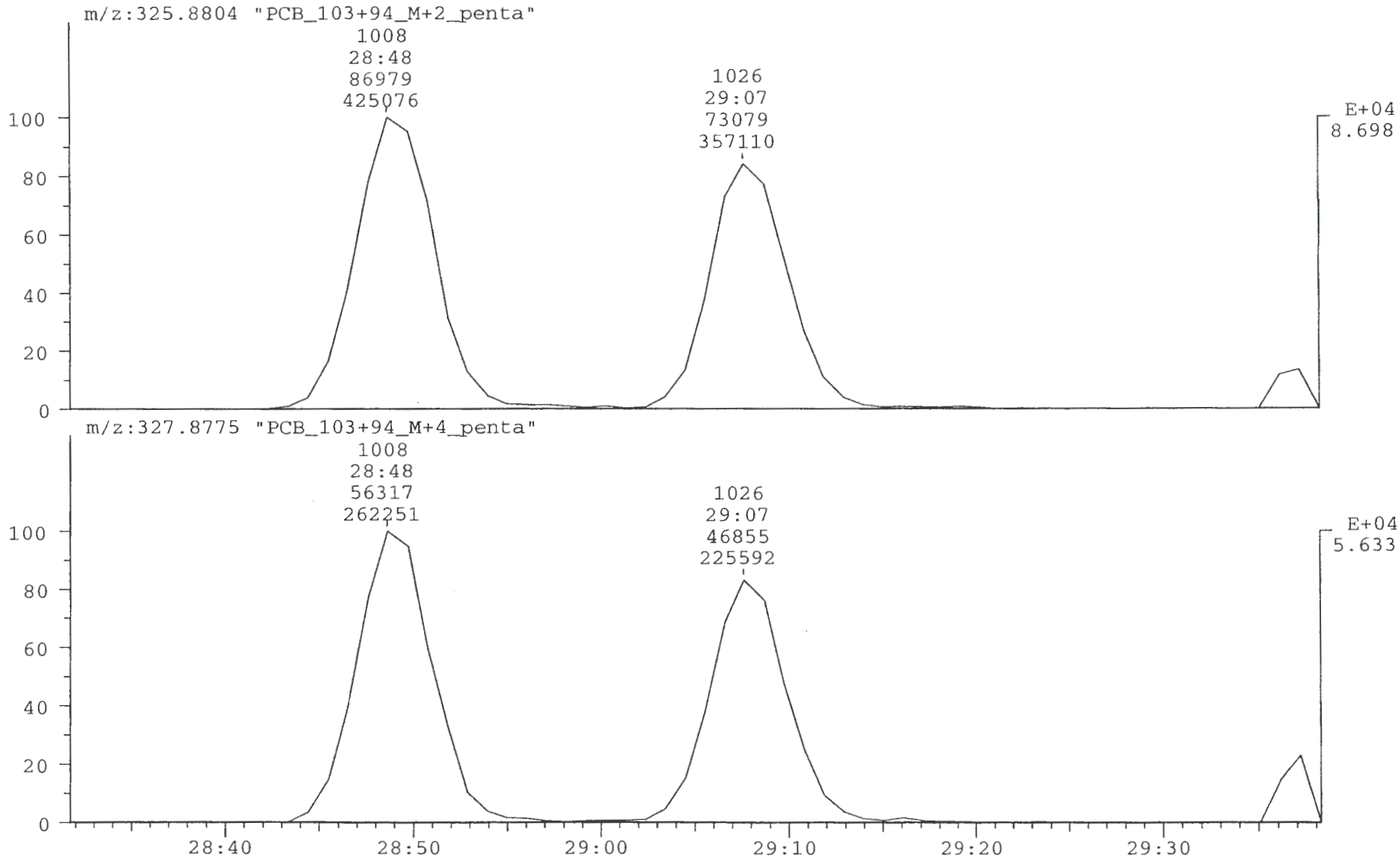
```
CHRO:  a071012s1                              12-Oct-07   Elapse:  40:49      1687
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1612 > 1767          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



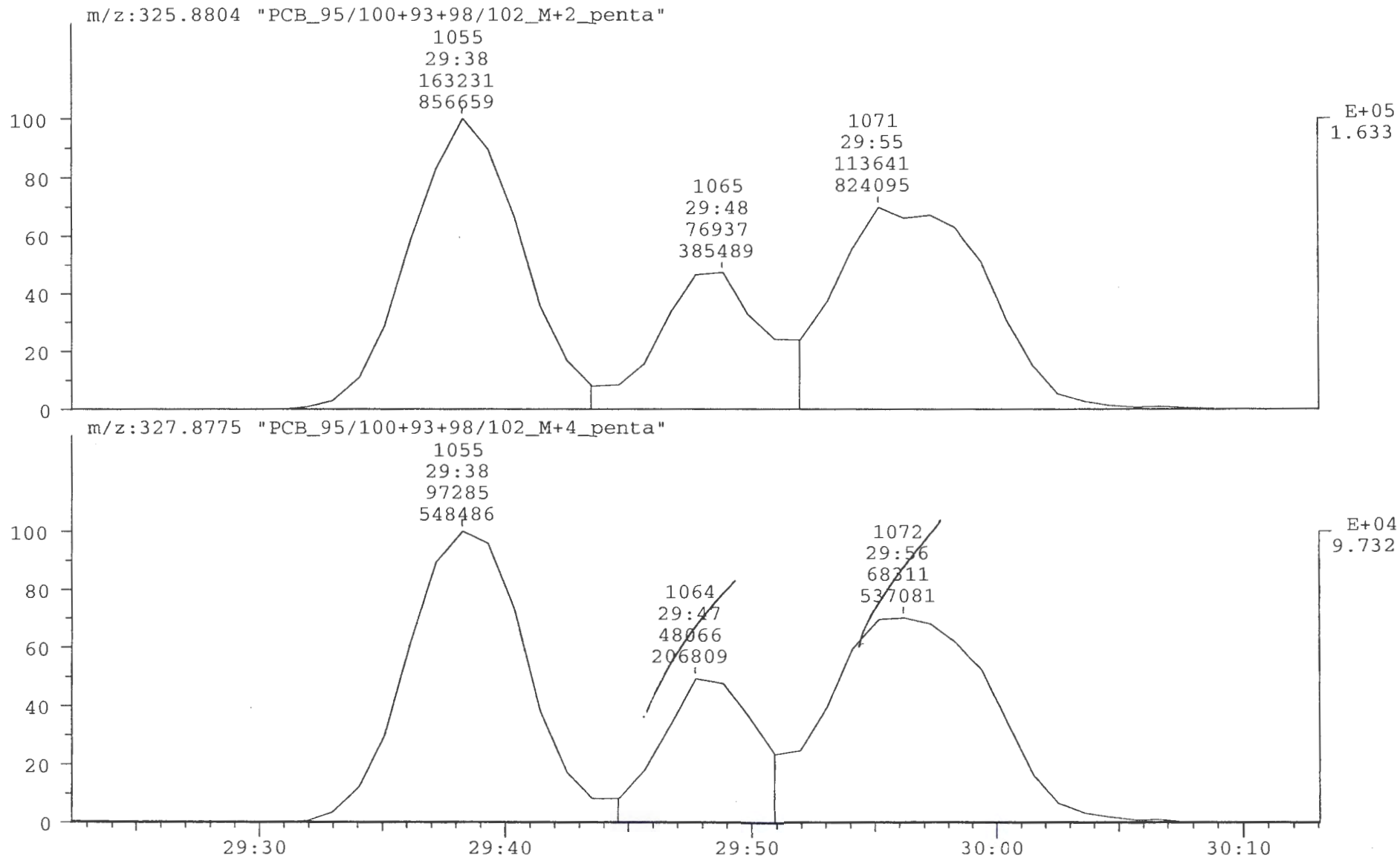
```
CHRO:  a071012s1                              12-Oct-07   Elapse:  26:47.2      893
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47    2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   853 > 938           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



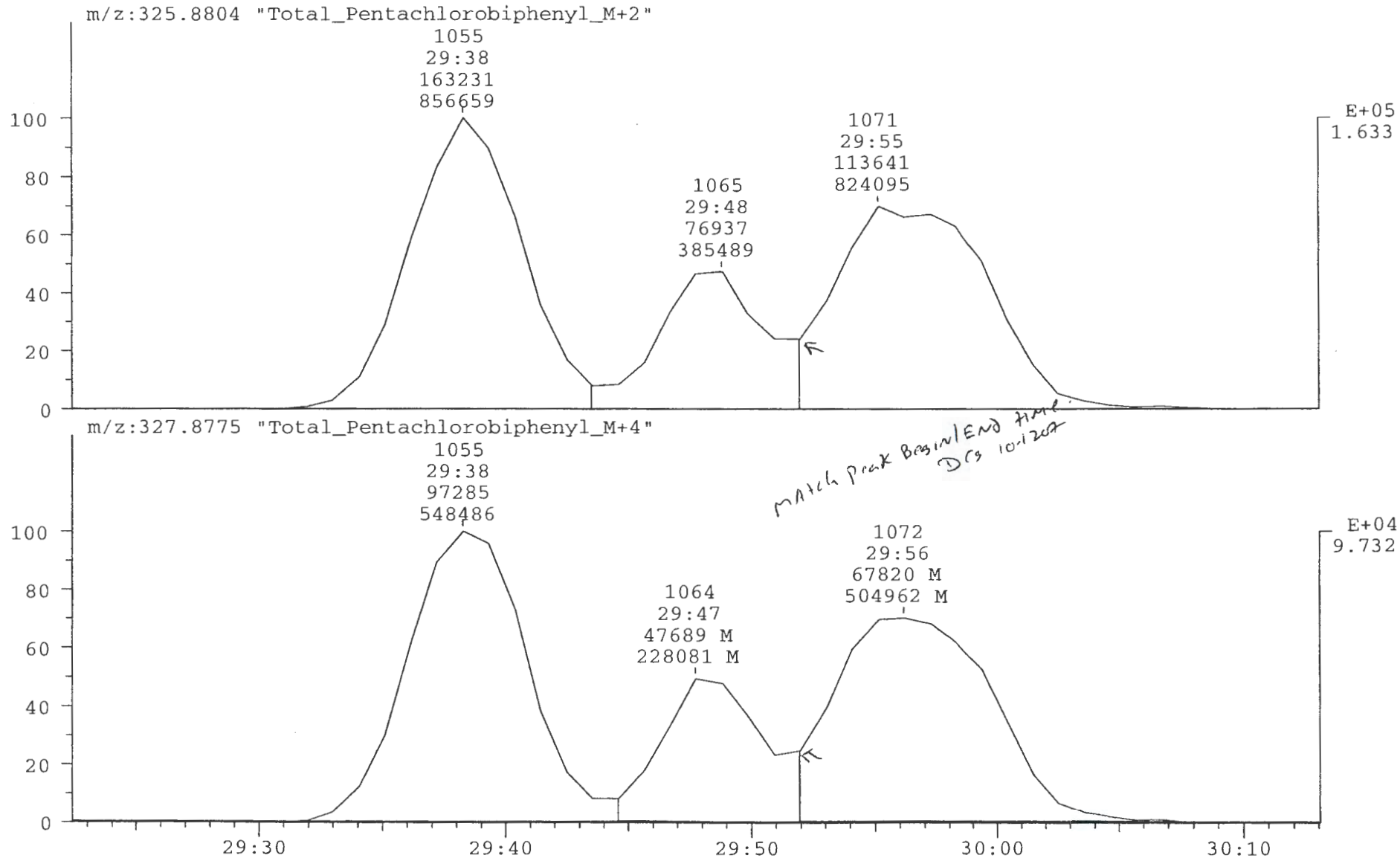
CHRO: a071012s1 12-Oct-07 Elapse: 28:58 1017
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 992 > 1055 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a071012s1                                12-Oct-07  Elapse:  29:43      1060
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1040 > 1088          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 4               Label :  -3, 3.0
Disp:  Height  Area
```

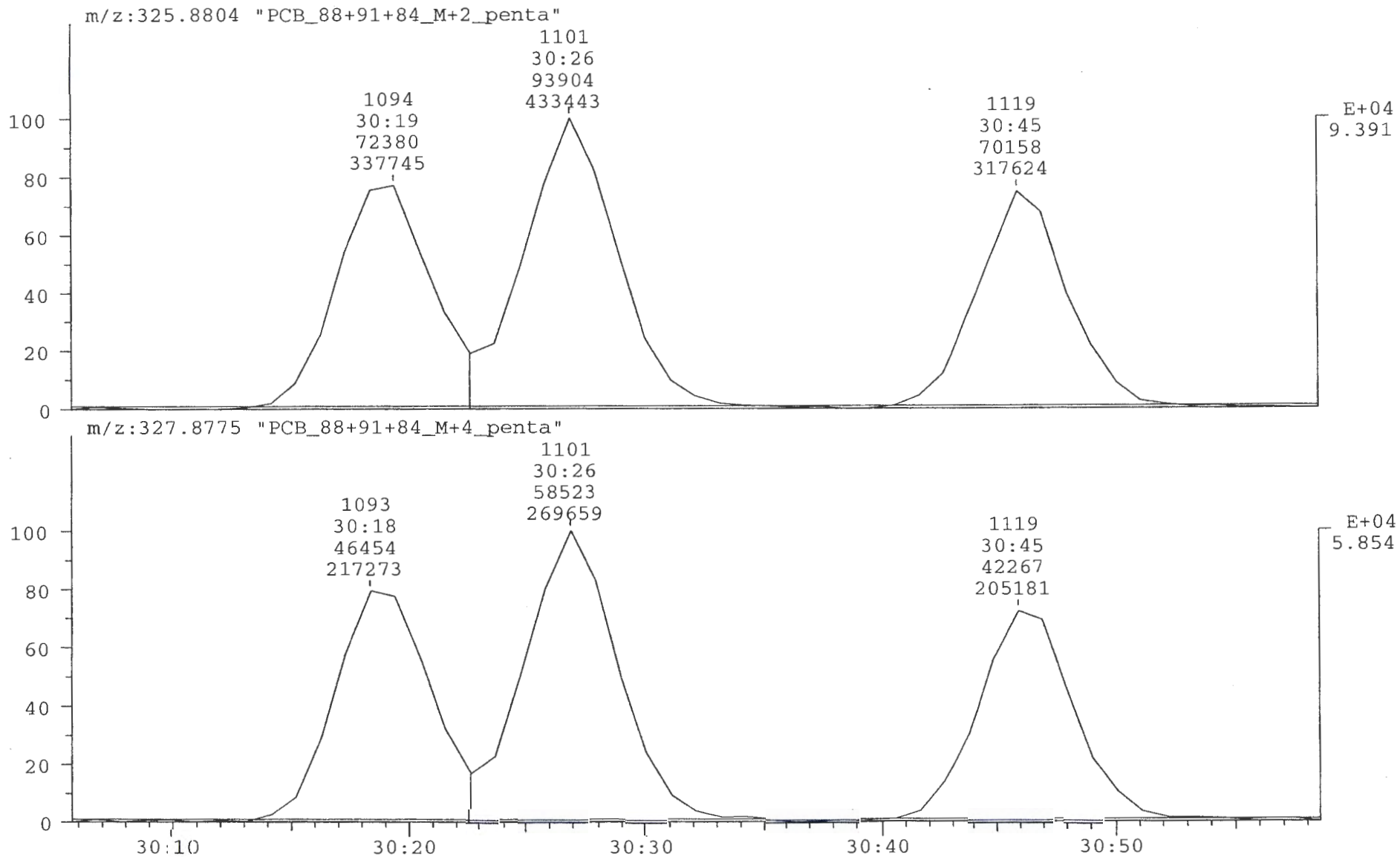


```
CHRO:  a071012s1                                12-Oct-07  Elapse:  56:11      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1040 > 1088          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

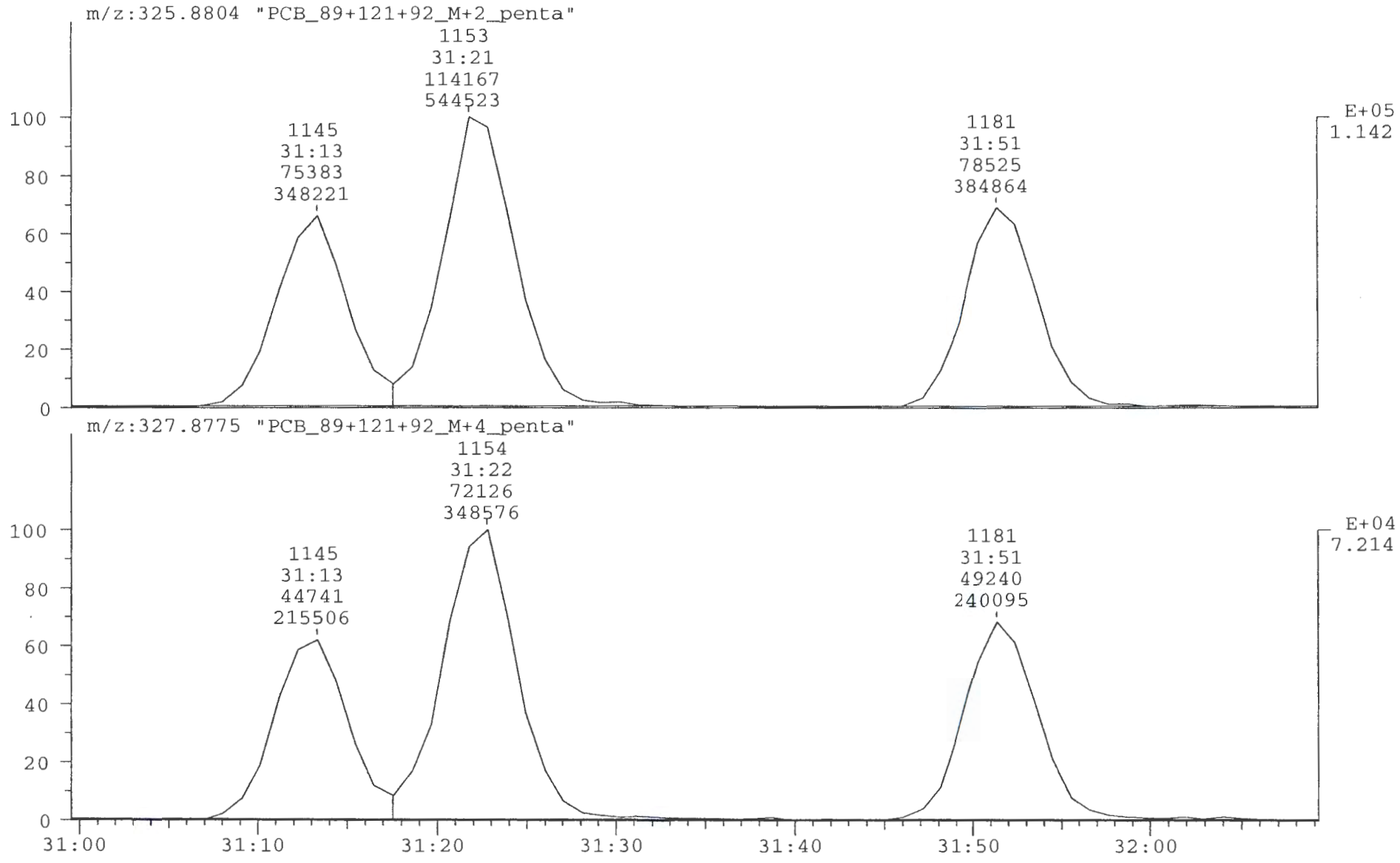


Match Peak Begin/END Time
DCG 10-12-07

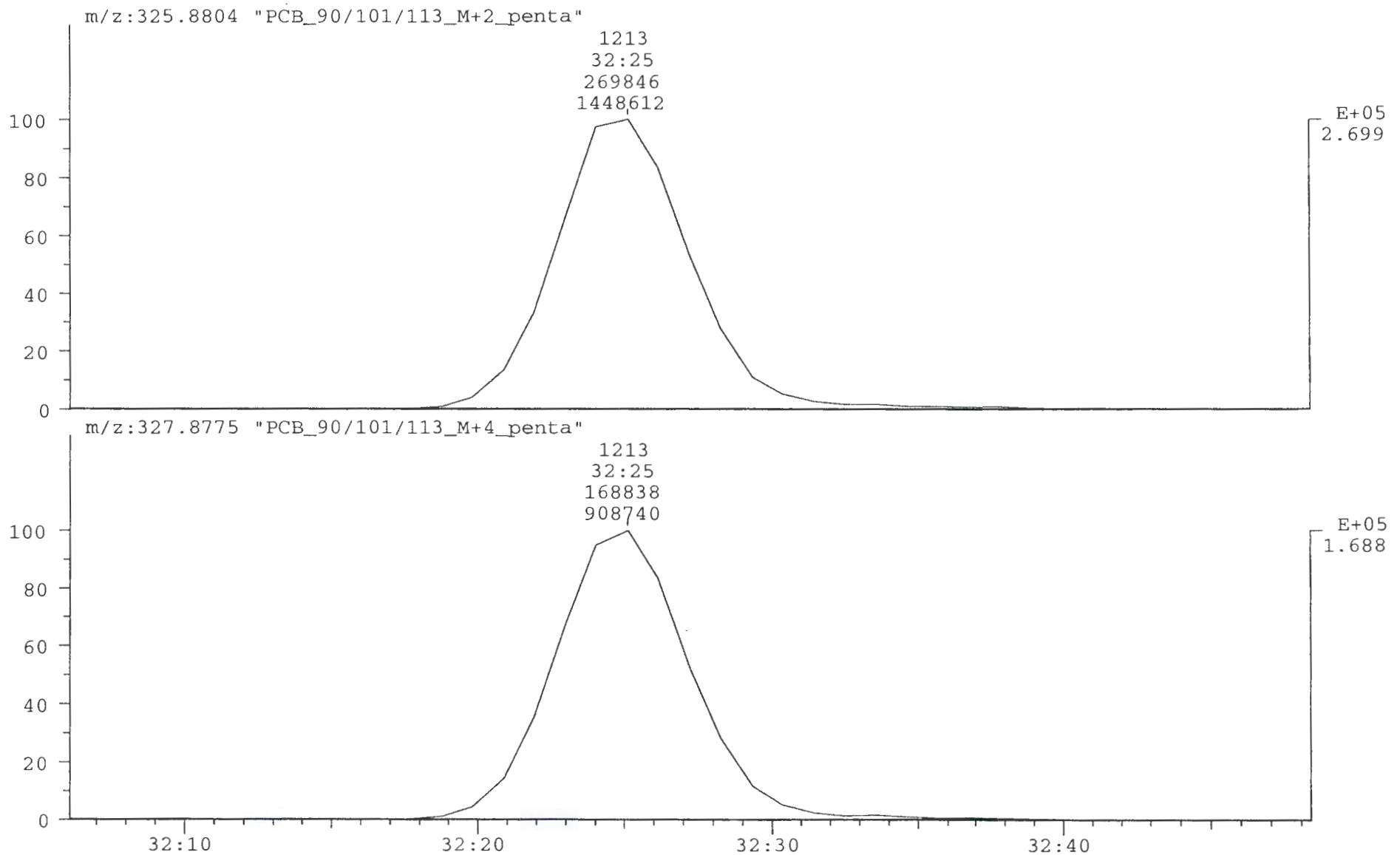
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  30:30      1104
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1081 > 1131           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071012s1                                12-Oct-07   Elapse:  31:31      1162
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1132 > 1198           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

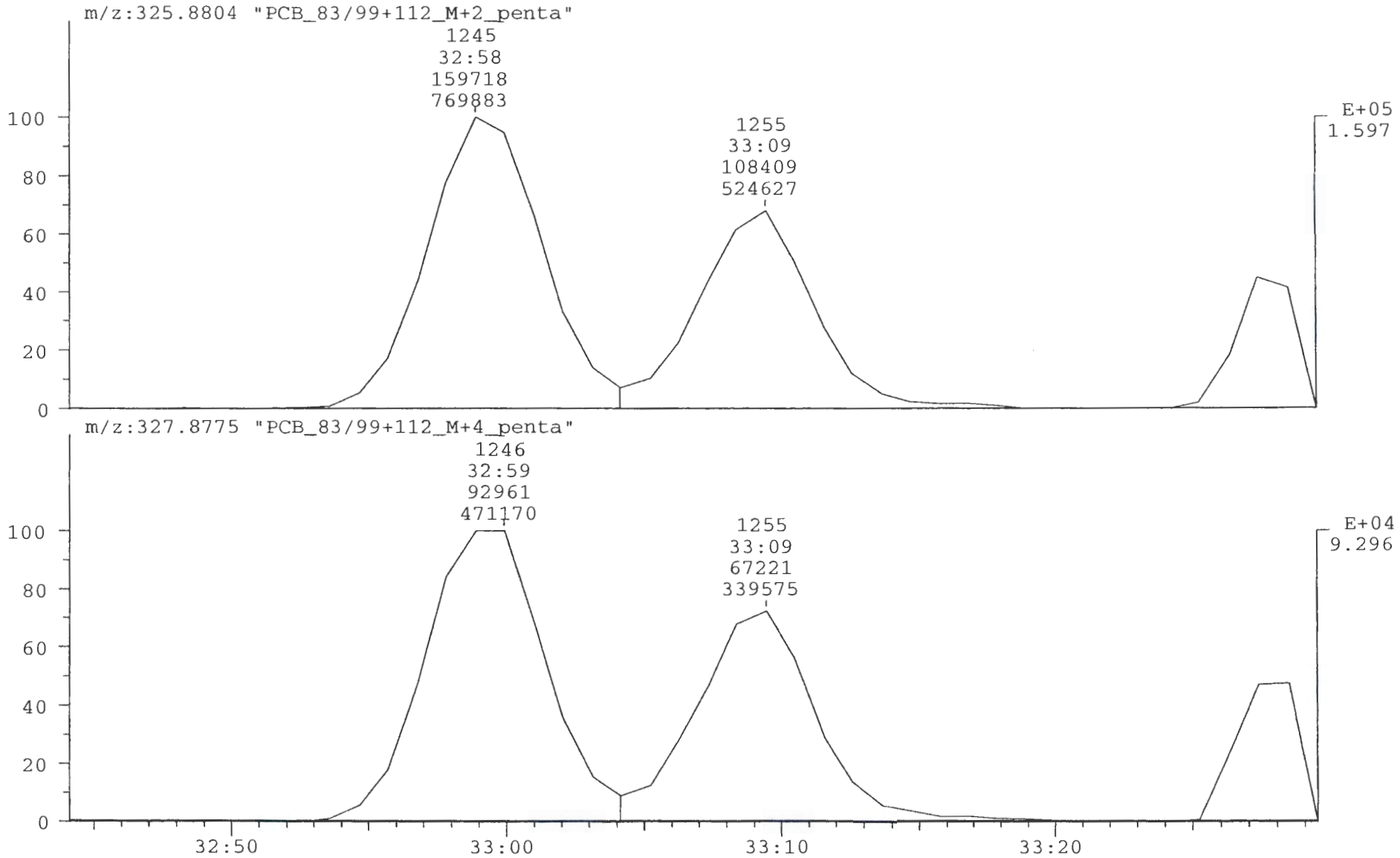


```
CHRO:  a071012s1                                12-Oct-07  Elapse:  32:21      1210
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1195 > 1235          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

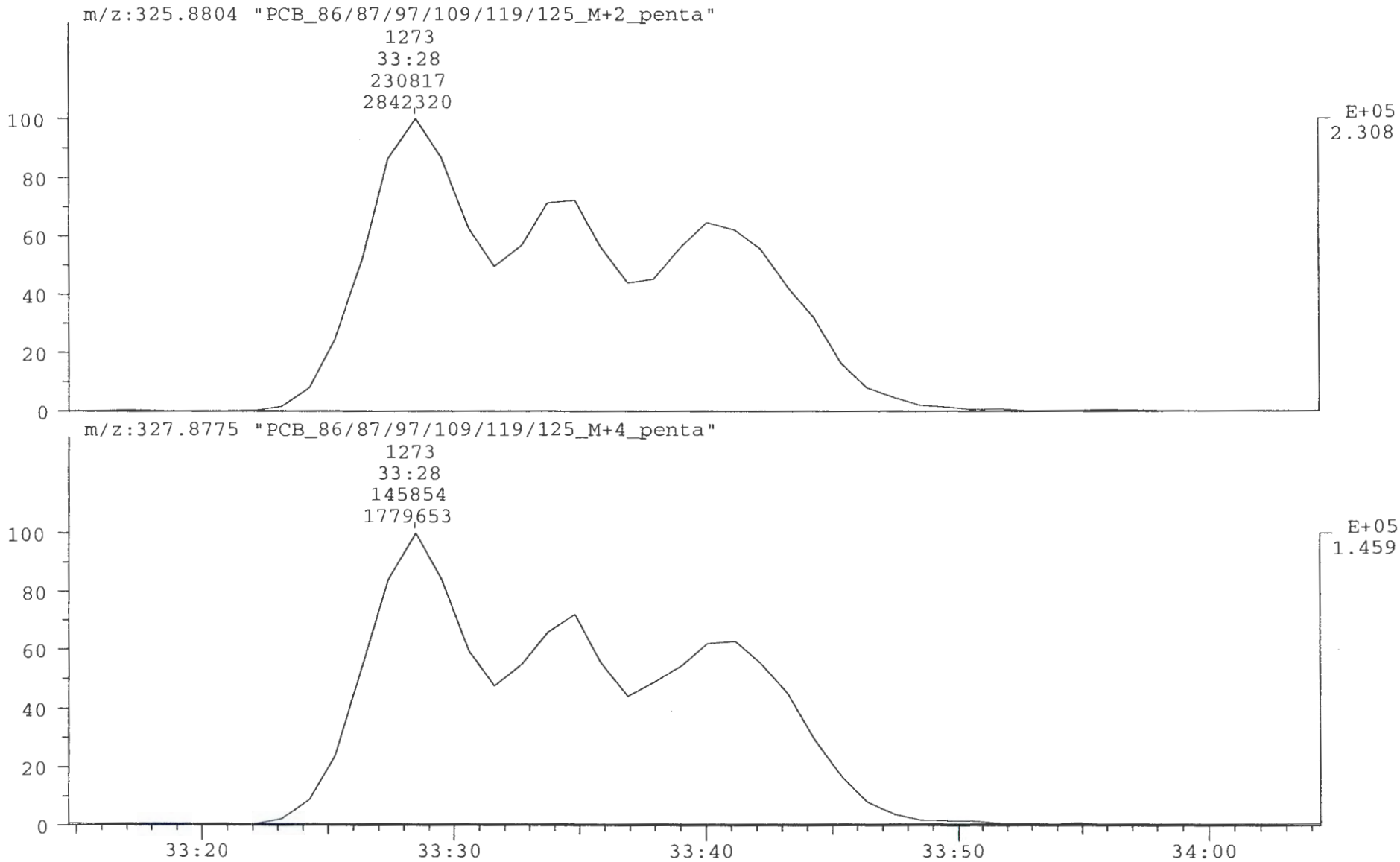


2723

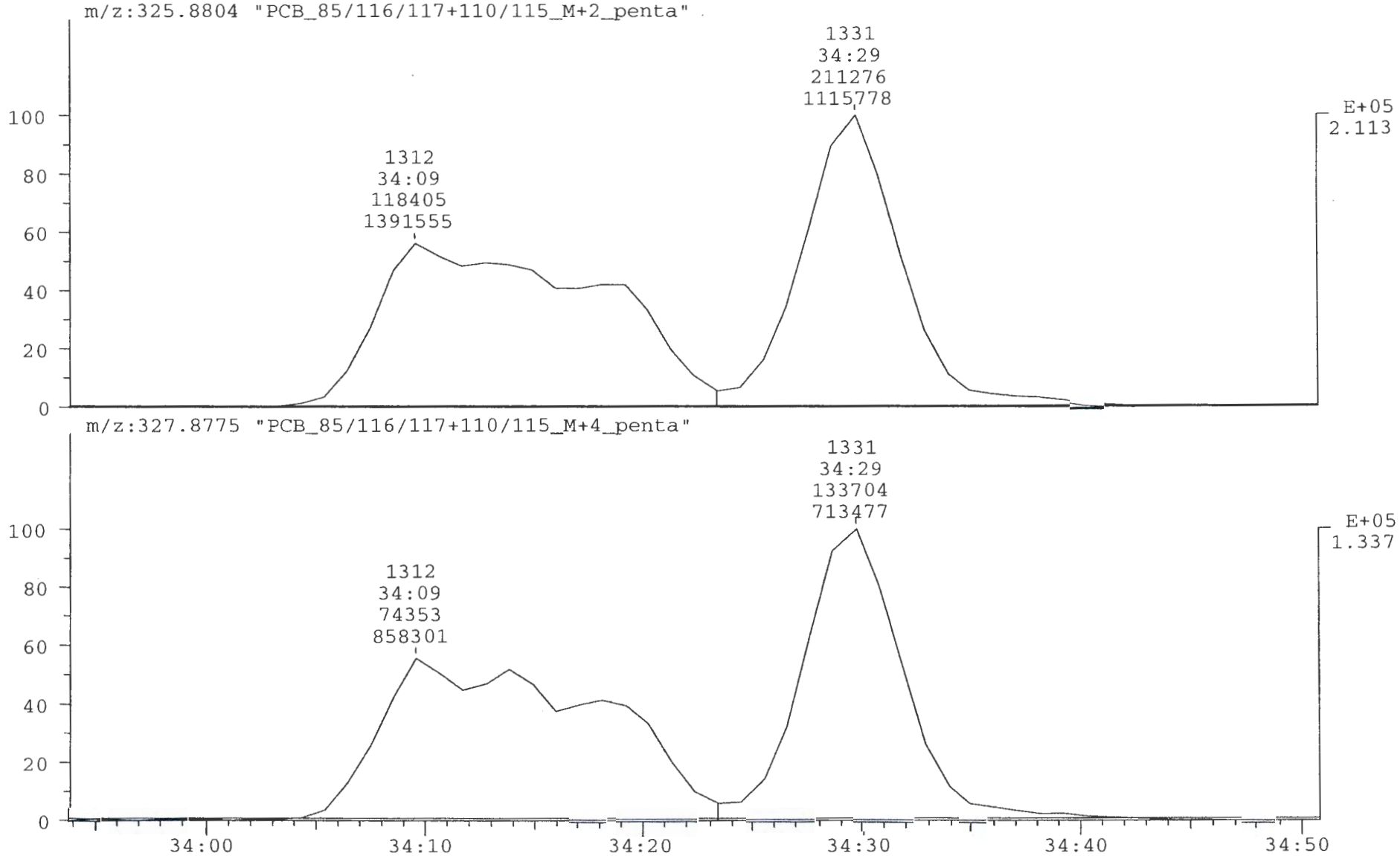
CHRO: a071012s1 12-Oct-07 Elapse: 33:03 1249
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1231 > 1274 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



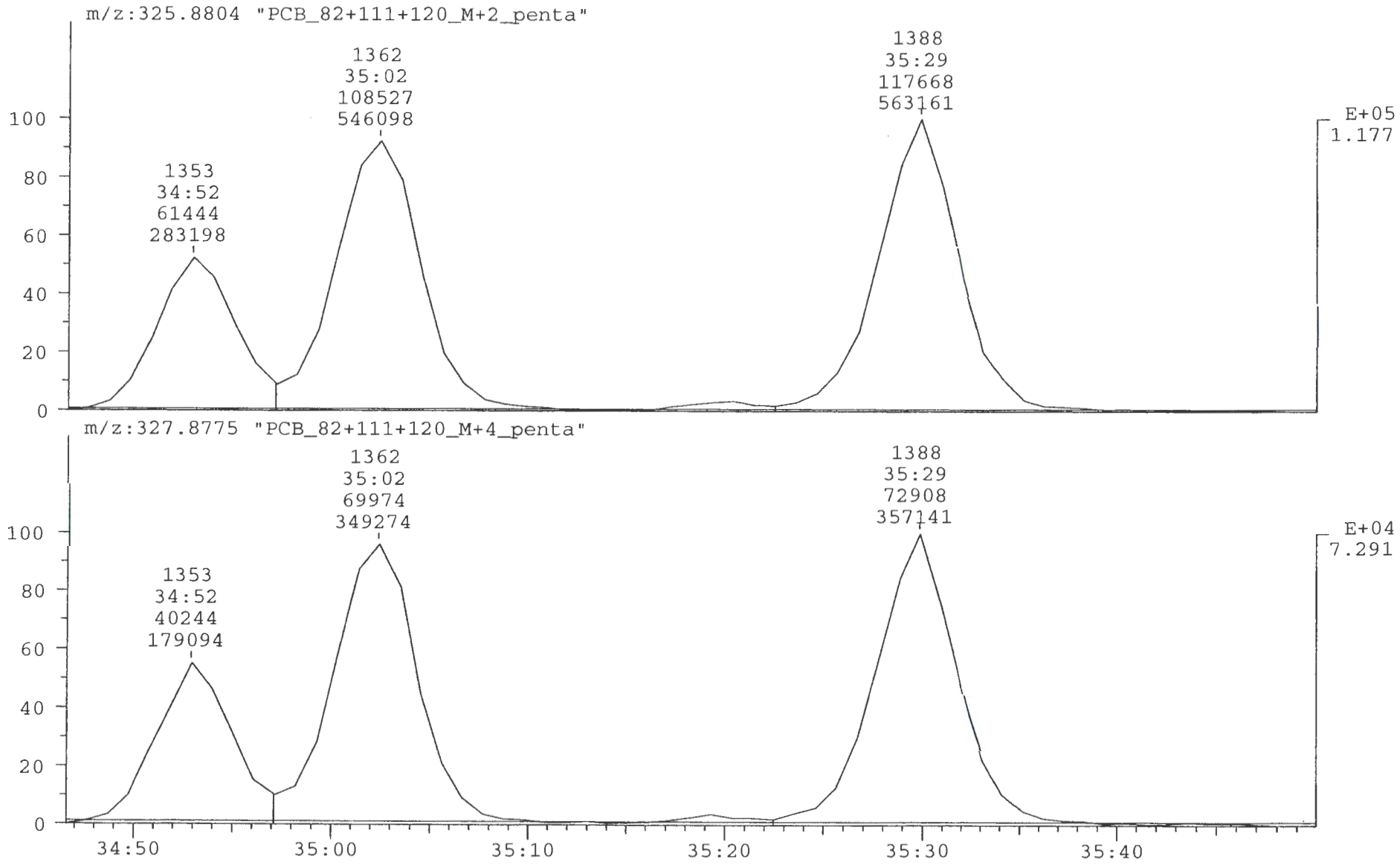
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  33:35      1280
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1260 > 1307            Masses:  181 > 510
Area:  5, 0.50, 0      Baseline  :   100, 12                Label :  -3, 3.0
Disp:  Height  Area
```



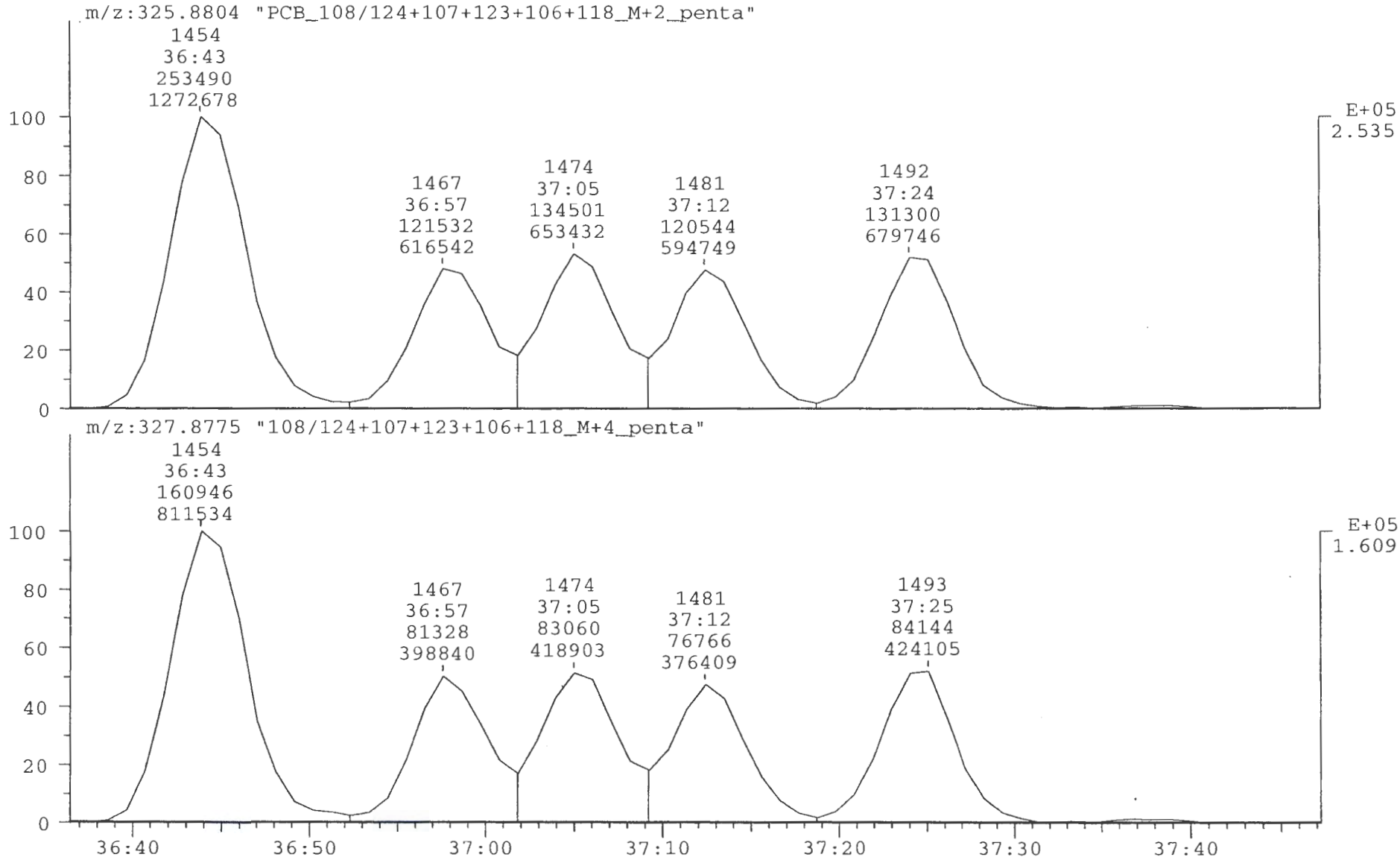
```
CHRO:  a071012s1                              12-Oct-07   Elapse:  34:23      1325
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1297 > 1351         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 6              Label :  -3, 3.0
Disp:  Height  Area
```



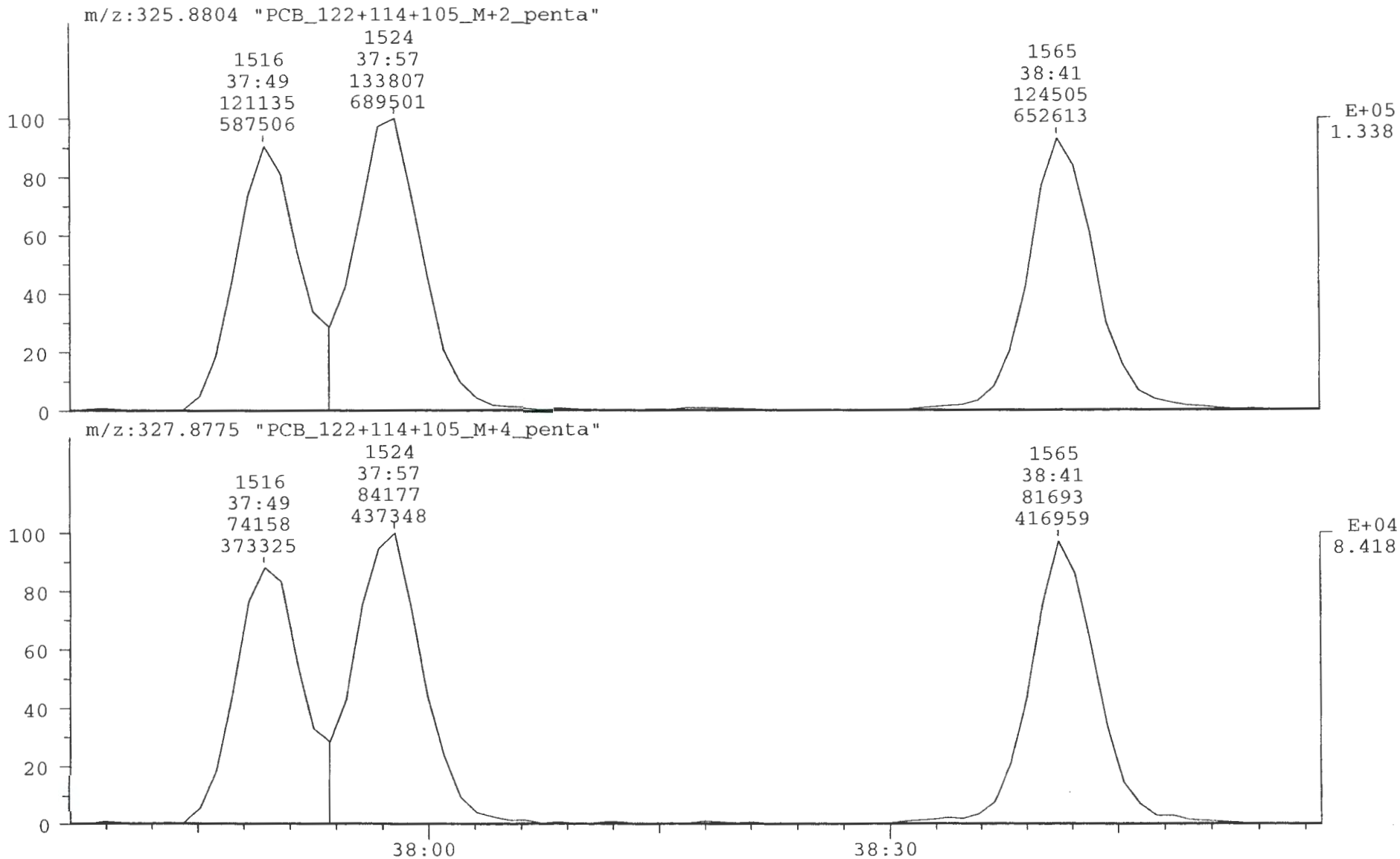
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  34:57      1357
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1347 > 1407           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



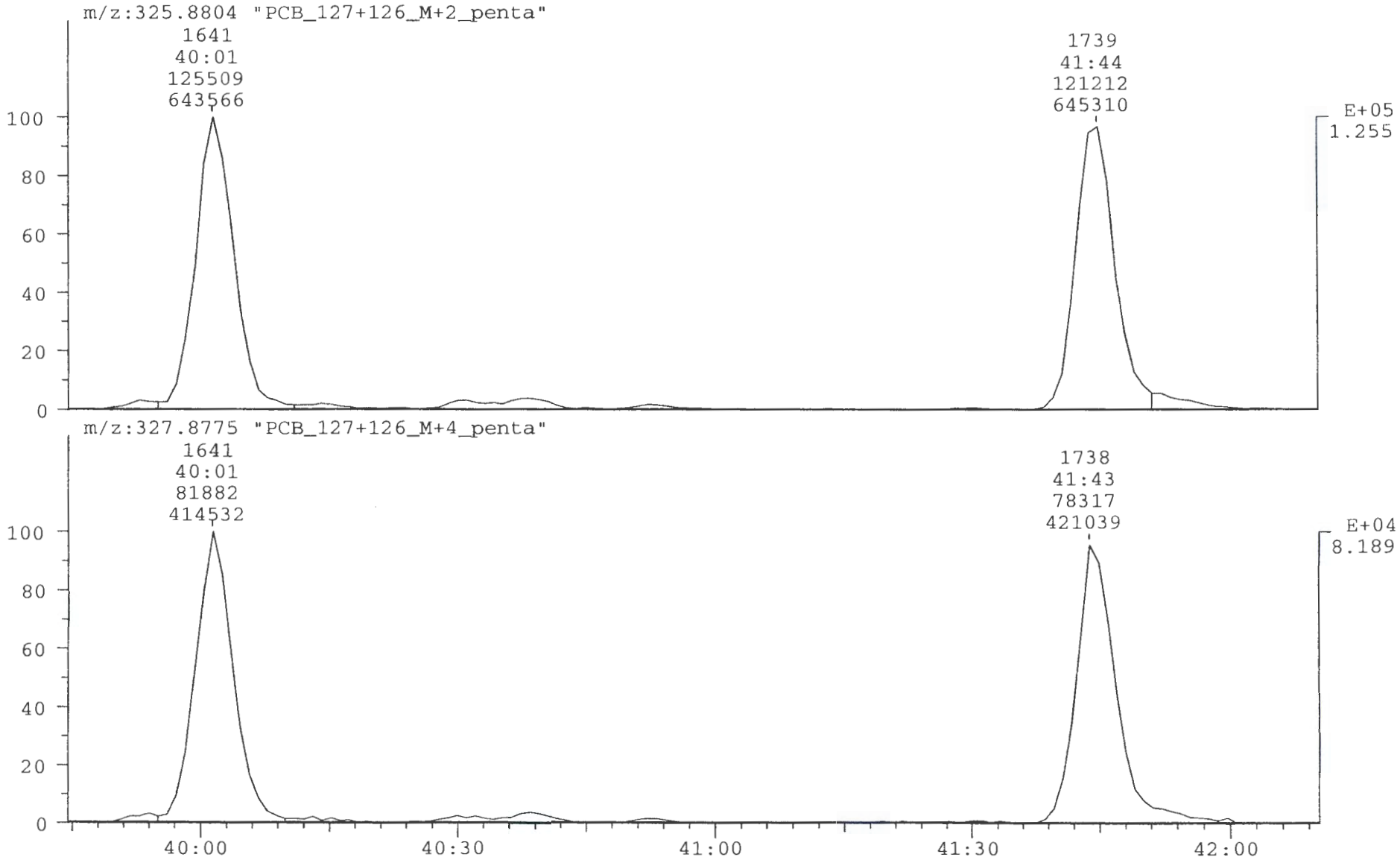
```
CHRO:  a071012s1                                12-Oct-07  Elapse:  37:13      1482
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1447 > 1514          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



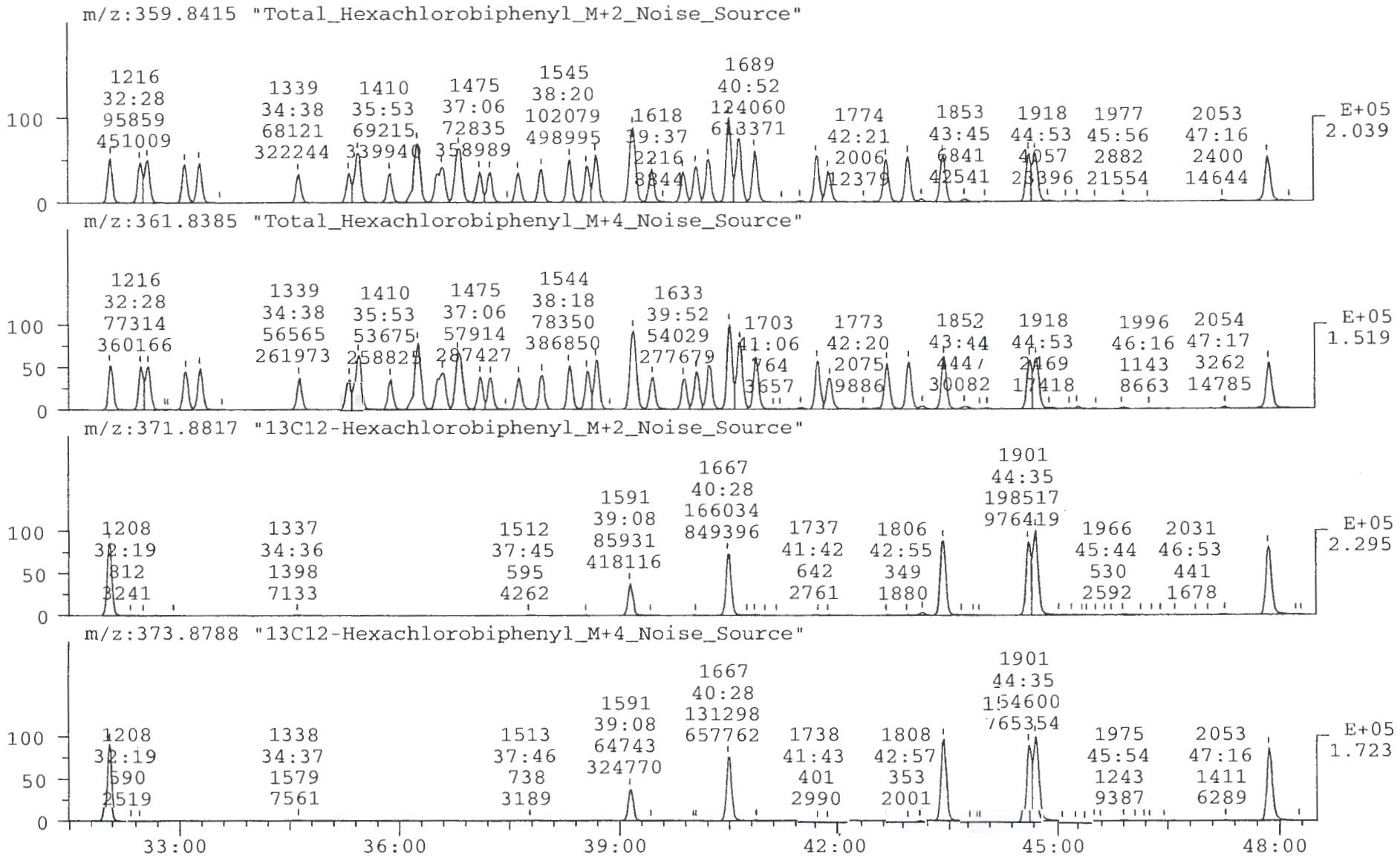
```
CHRO:  a071012s1                              12-Oct-07   Elapse:  38:13      1539
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1504 > 1581          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



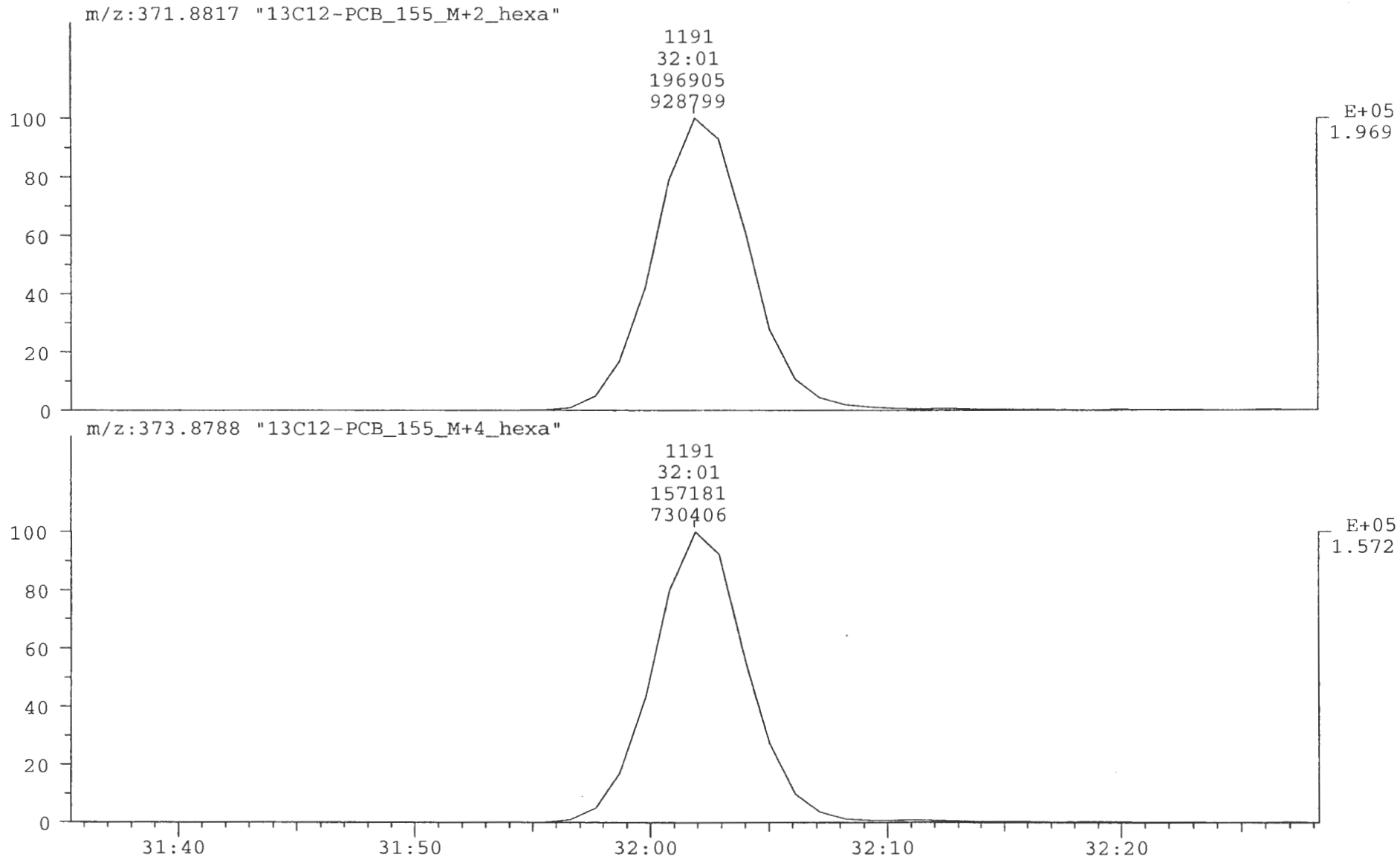
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  40:53      1690
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1625 > 1763           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



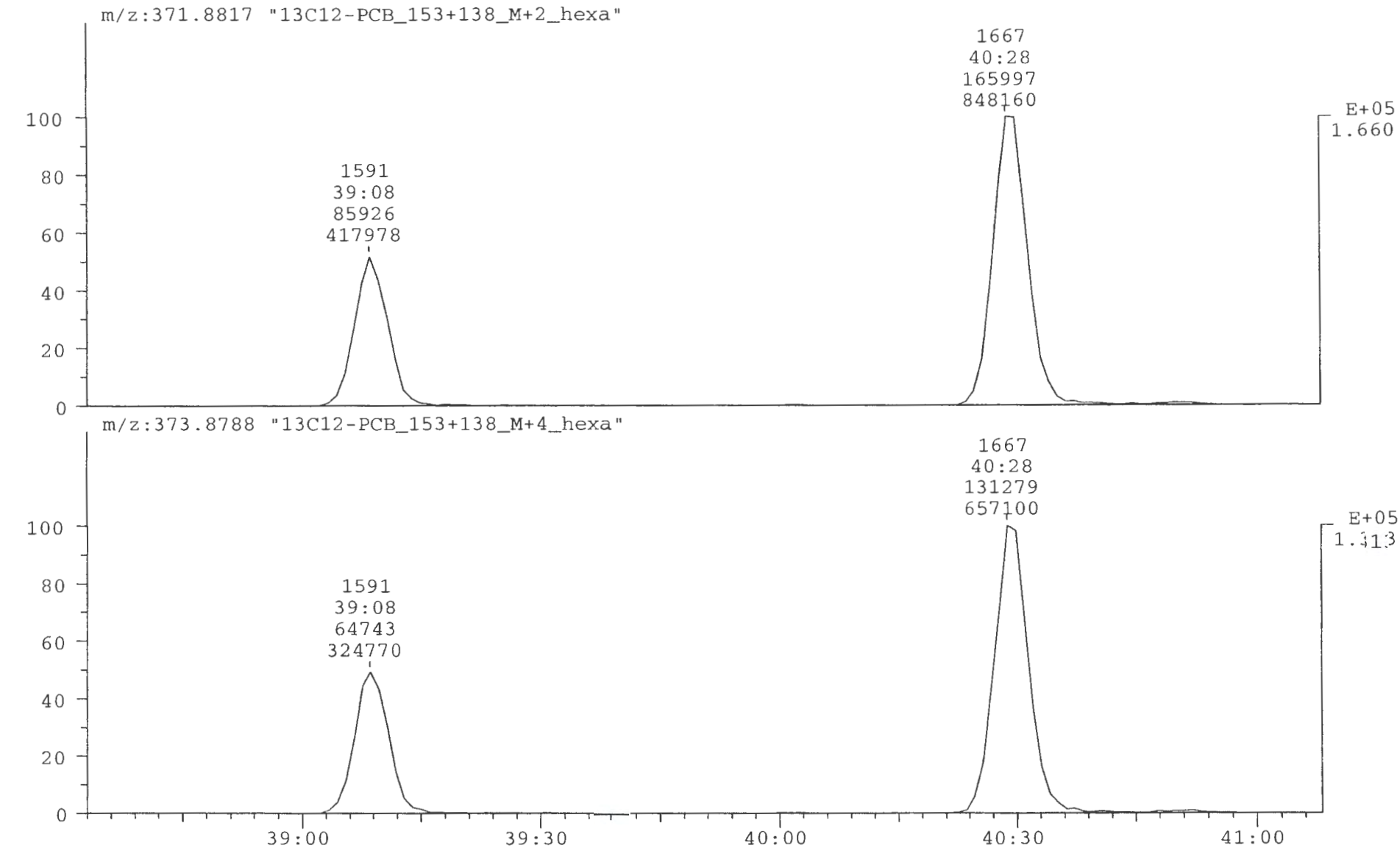
CHRO: a071012s1 12-Oct-07 Elapse: 39:59 1639
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1160 > 2123 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



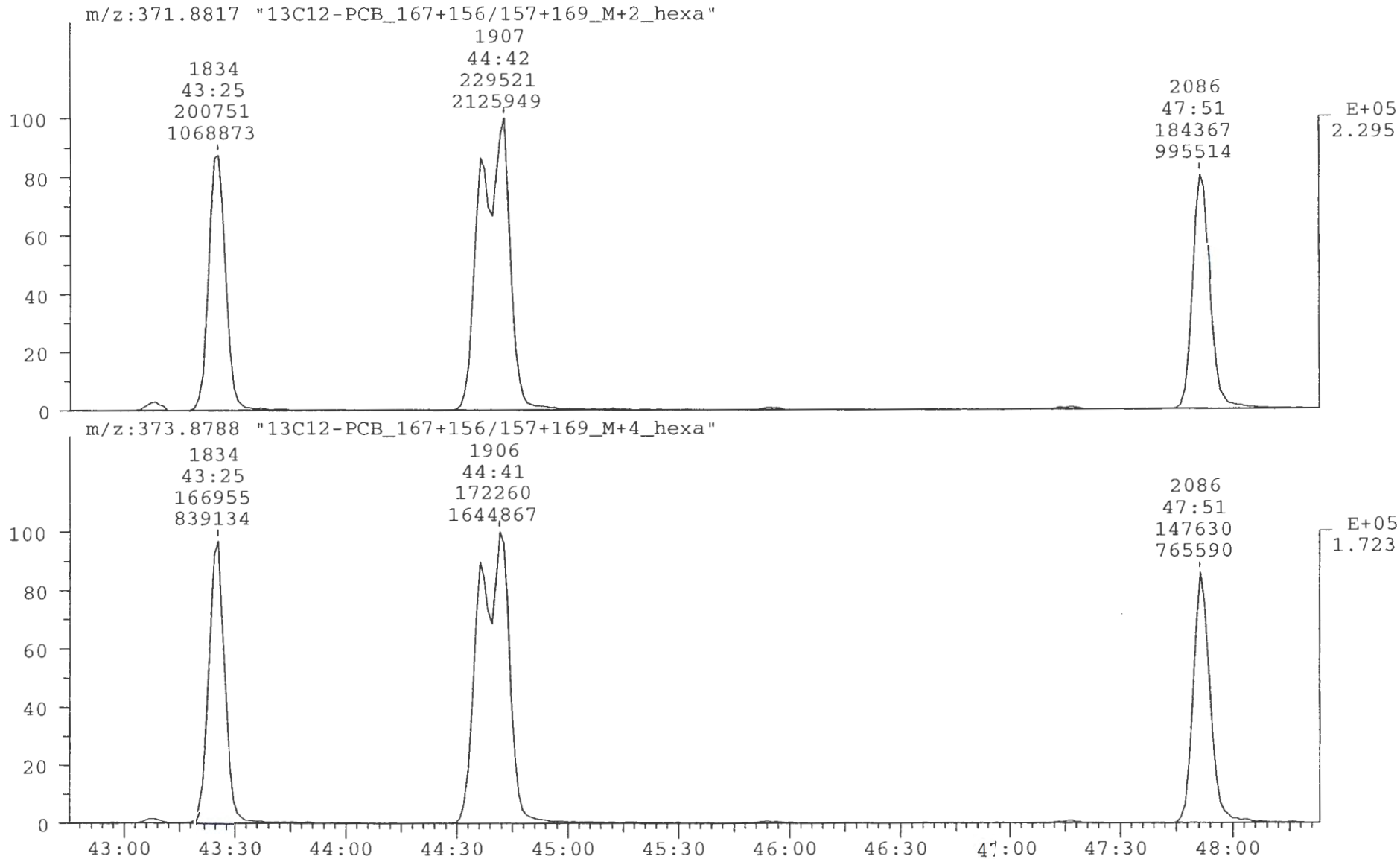
```
CHRO:  a071012s1                                12-Oct-07  Elapse:  32:01      1191
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1166 > 1216          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



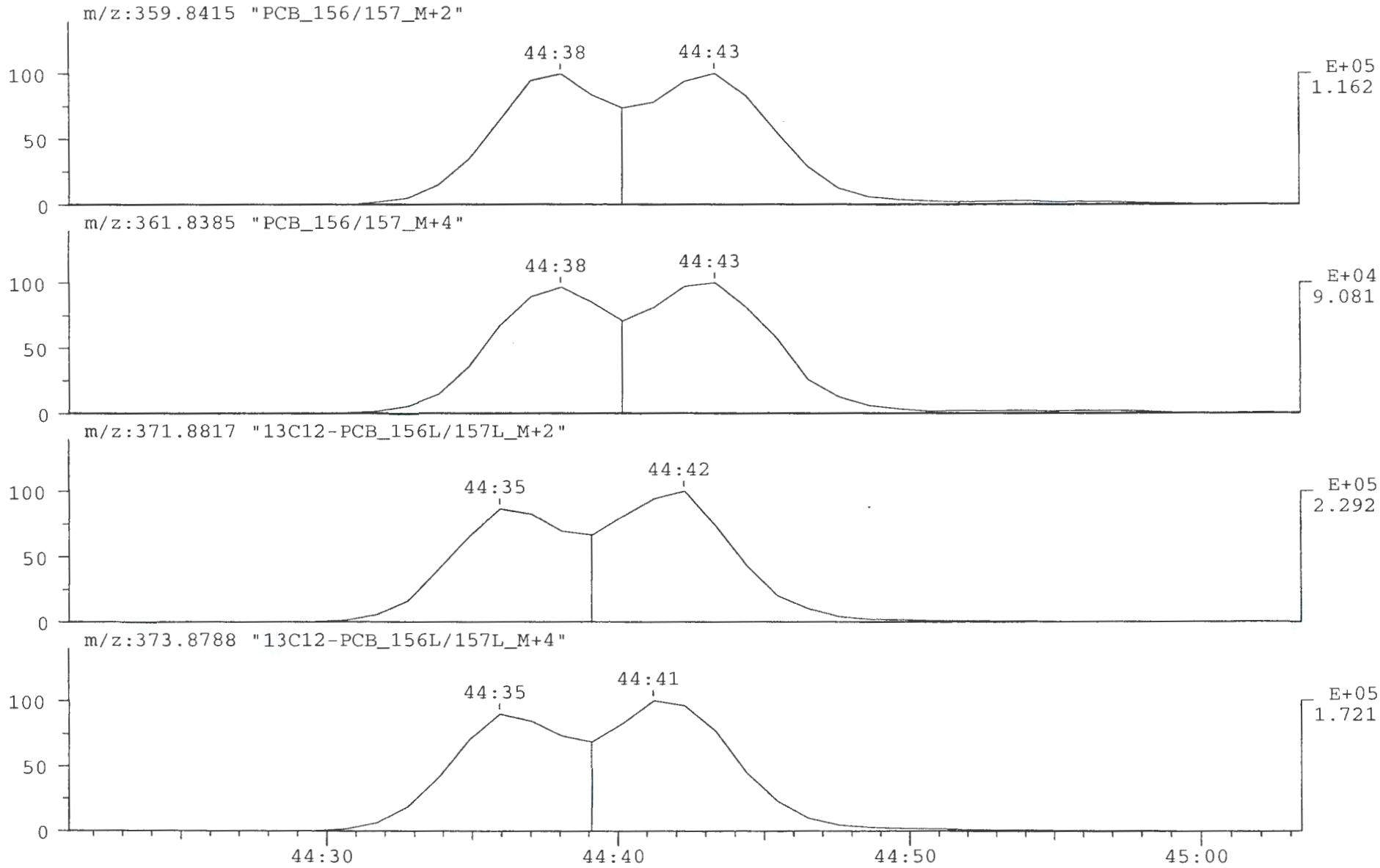
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  39:49      1630
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1557 > 1704           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



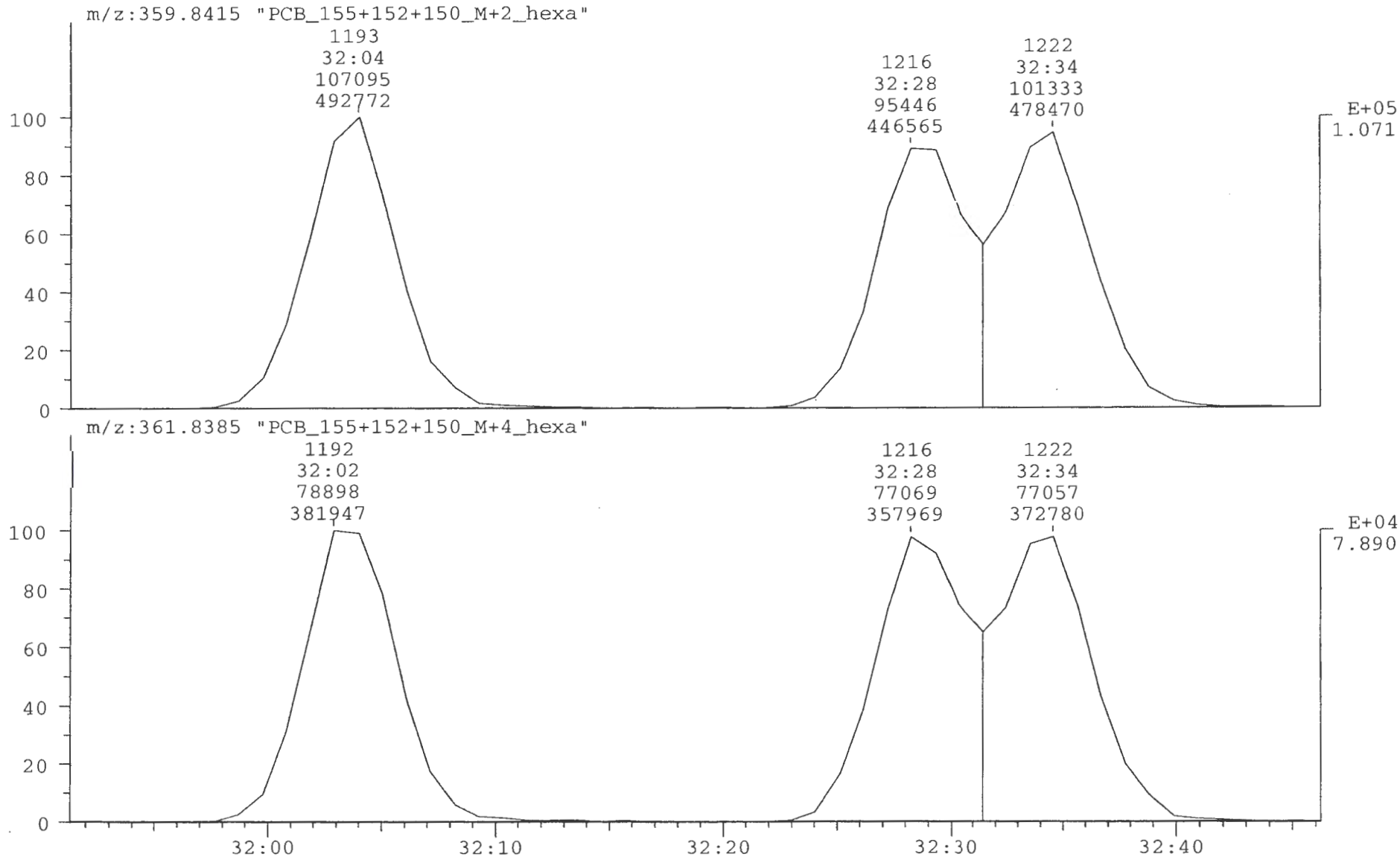
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  45:39      1961
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1796 > 2116           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9                Label :  -3, 3.0
Disp:  Height  Area
```



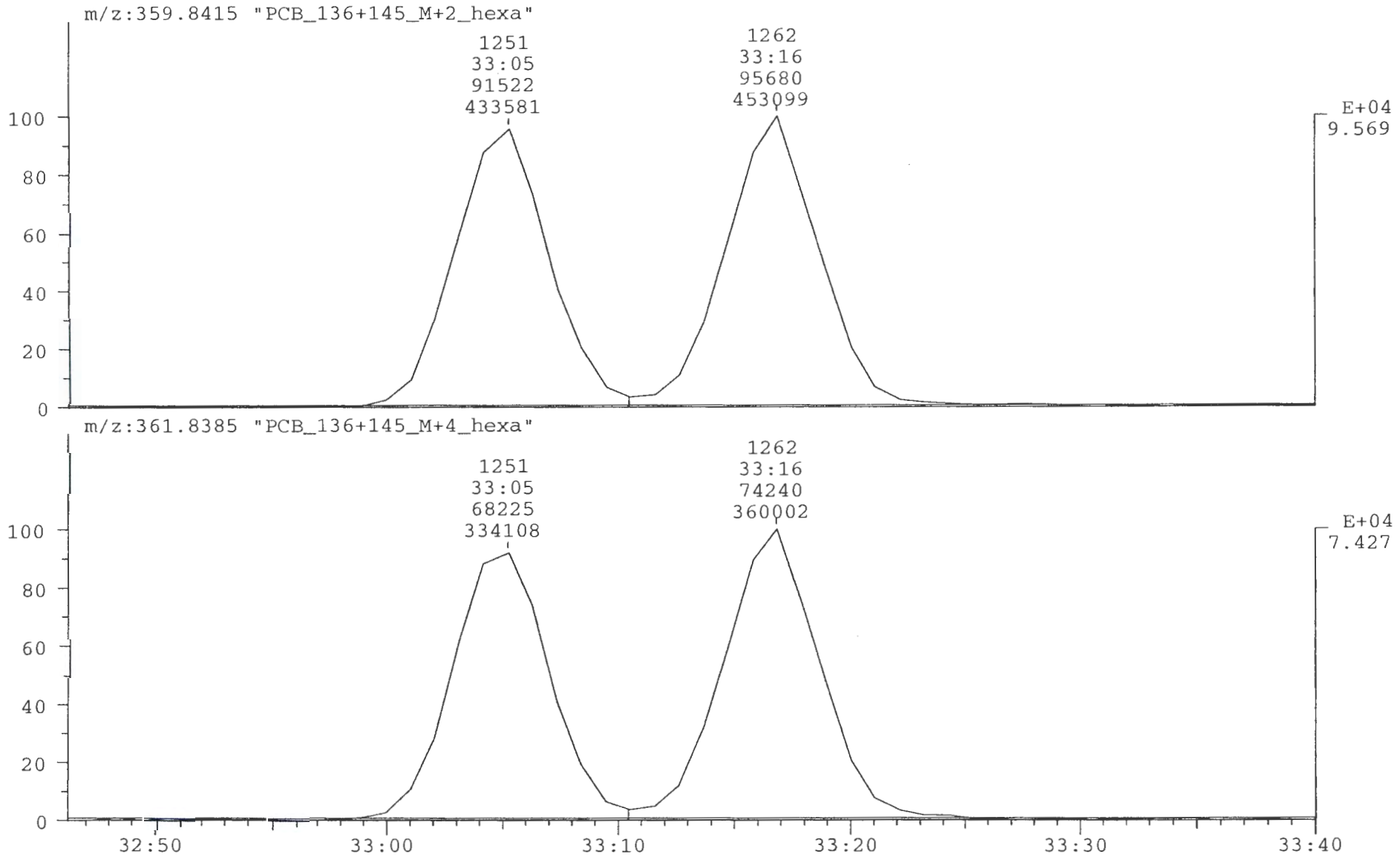
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  44:42      1907
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1887 > 1927           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
```



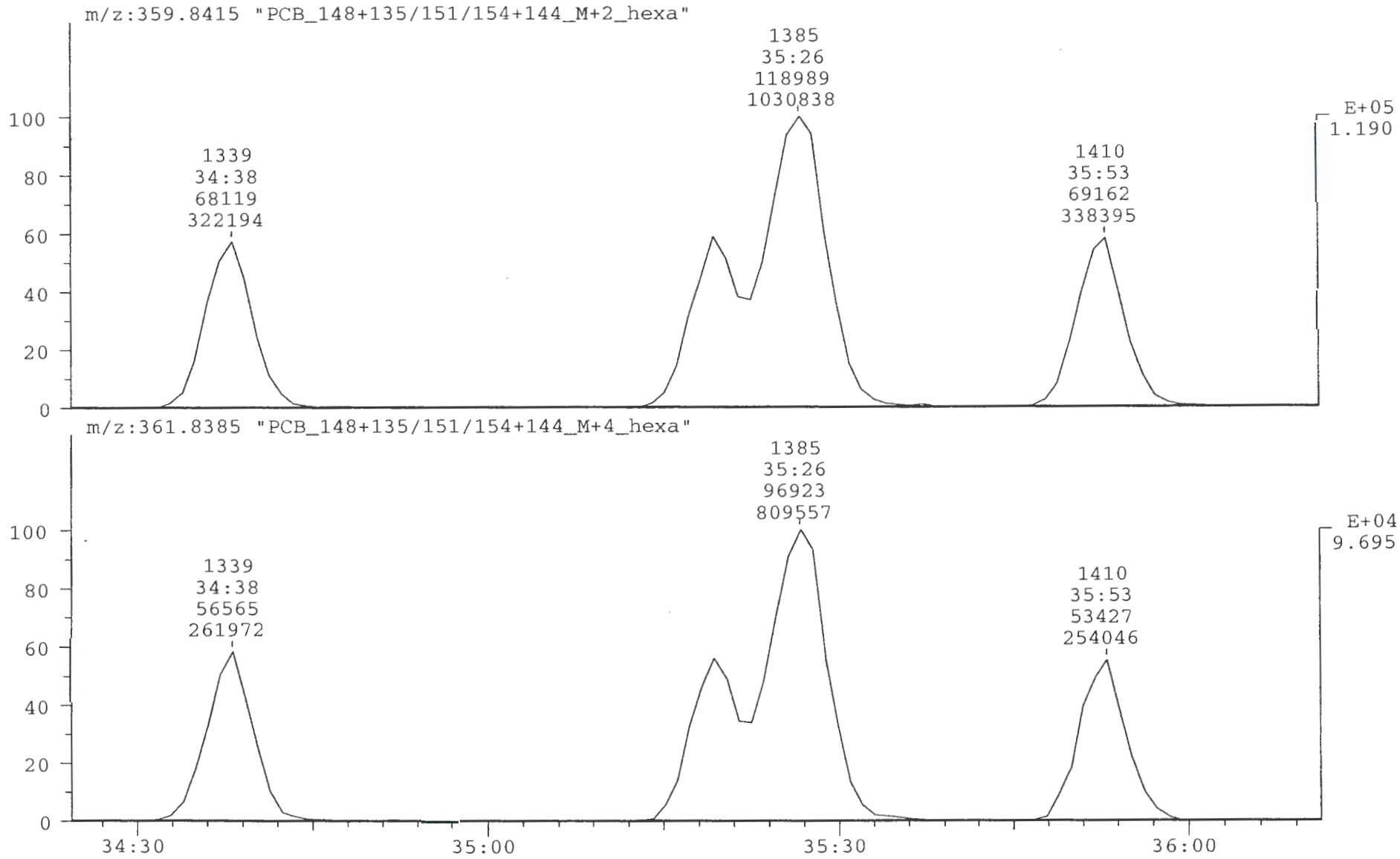
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  32:19      1208
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1181 > 1233           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



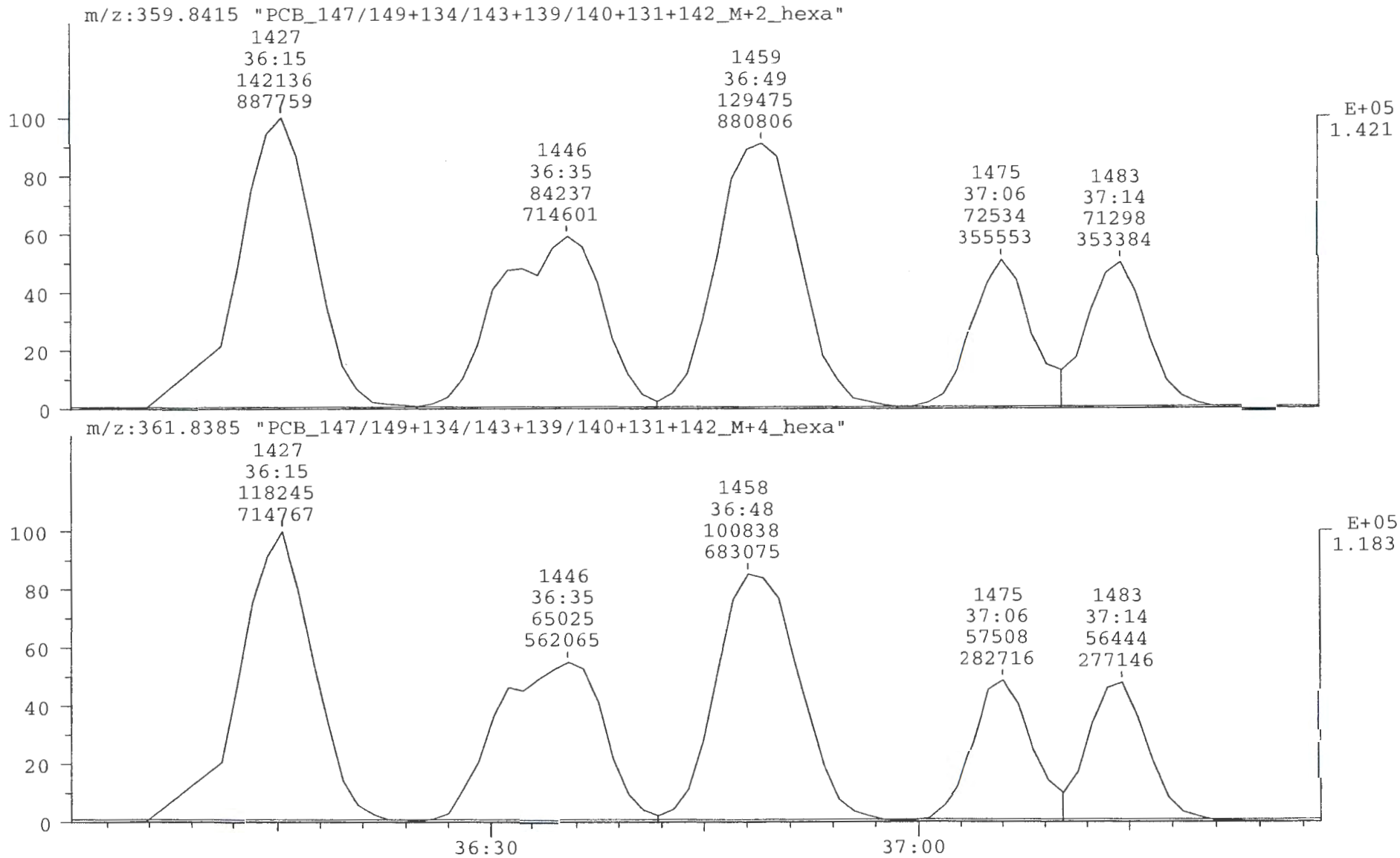
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  33:09      1255
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1233 > 1284           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



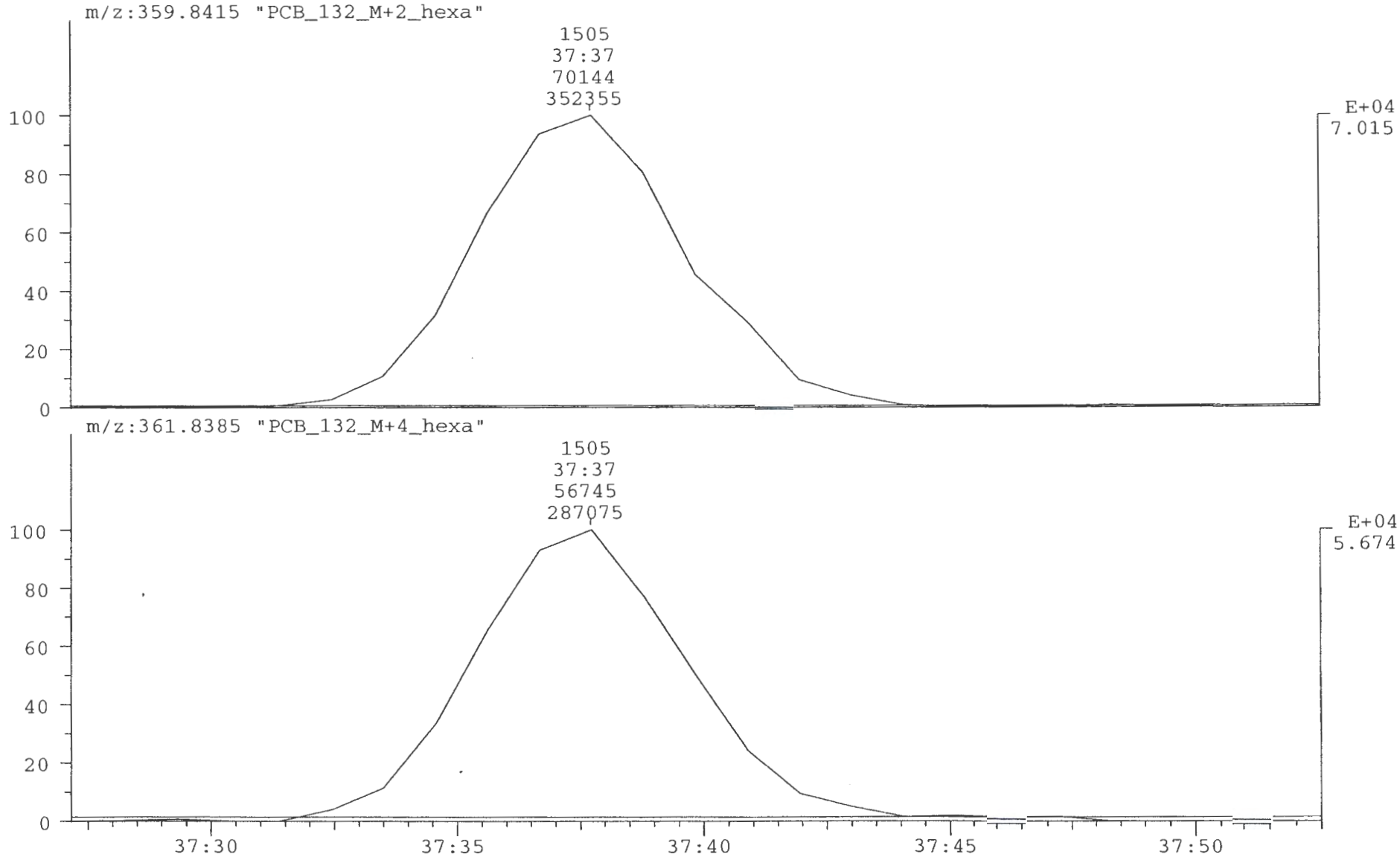
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  35:22      1381
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1326 > 1423           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 12               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071012s1                                12-Oct-07   Elapse:  36:46      1456
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG           Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1417 > 1496            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5                 Label :  -3, 3.0
Disp:  Height  Area
```

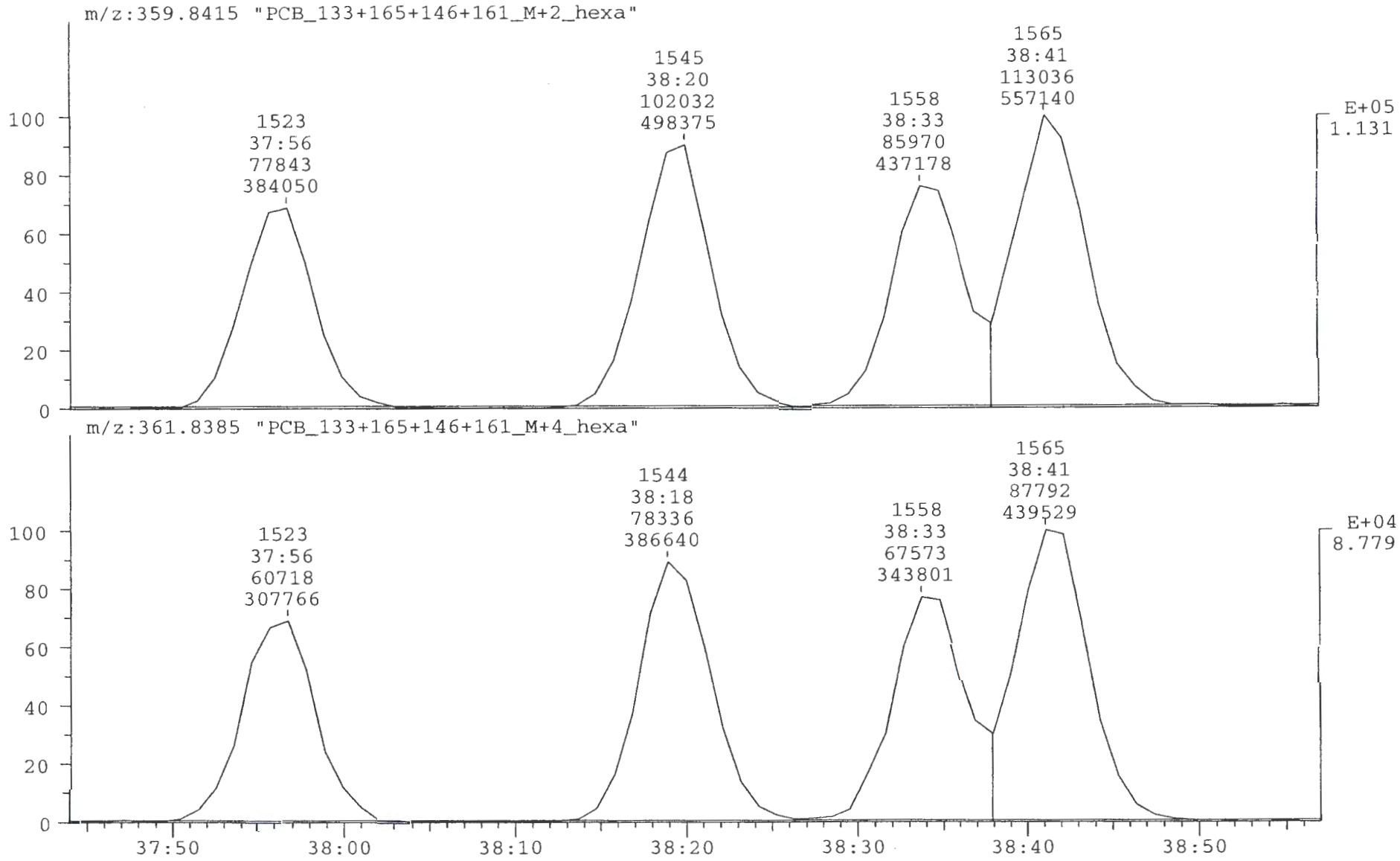


CHRO: a071012s1 12-Oct-07 Elapse: 37:33 1501
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1495 > 1519 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area

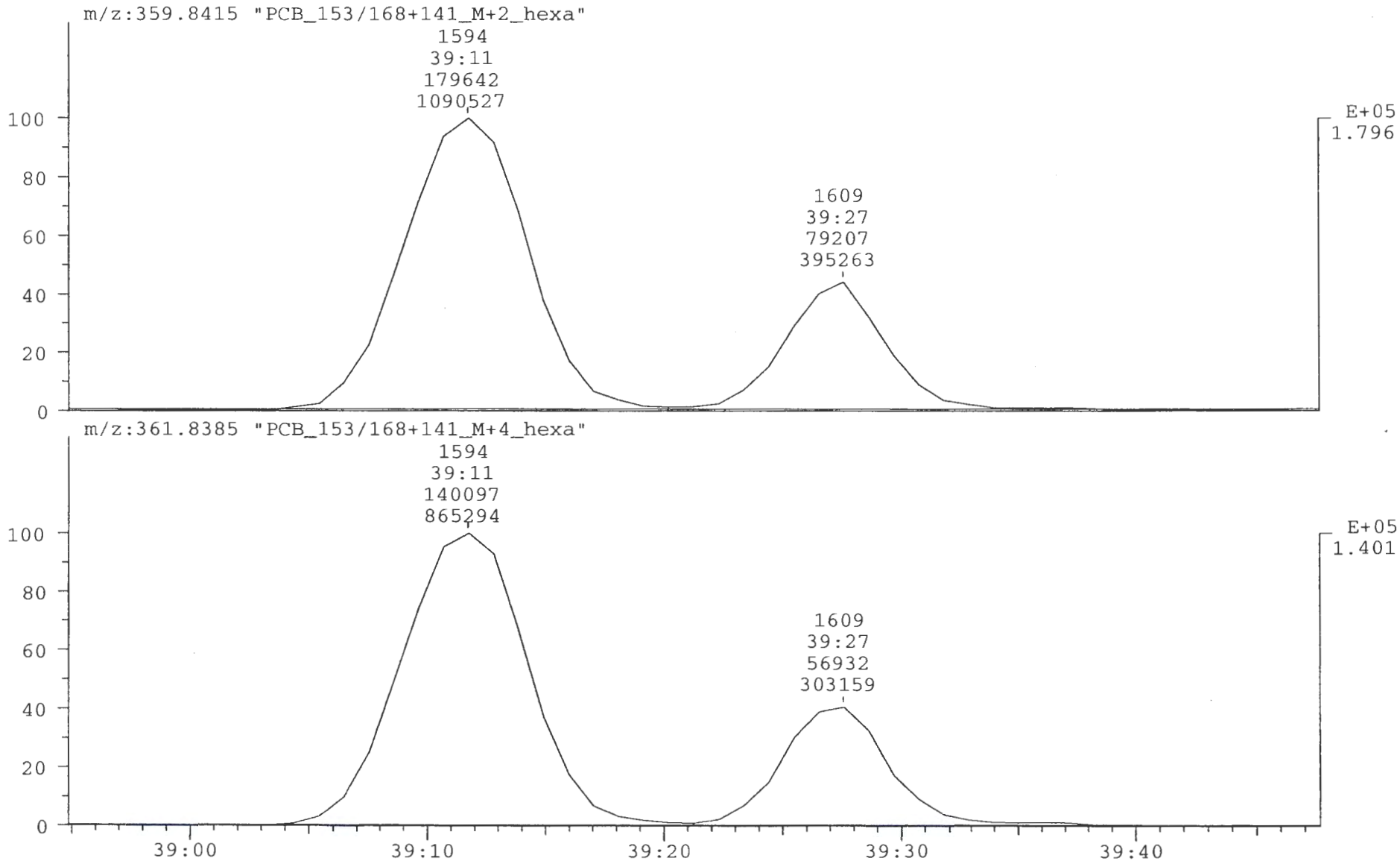


2740

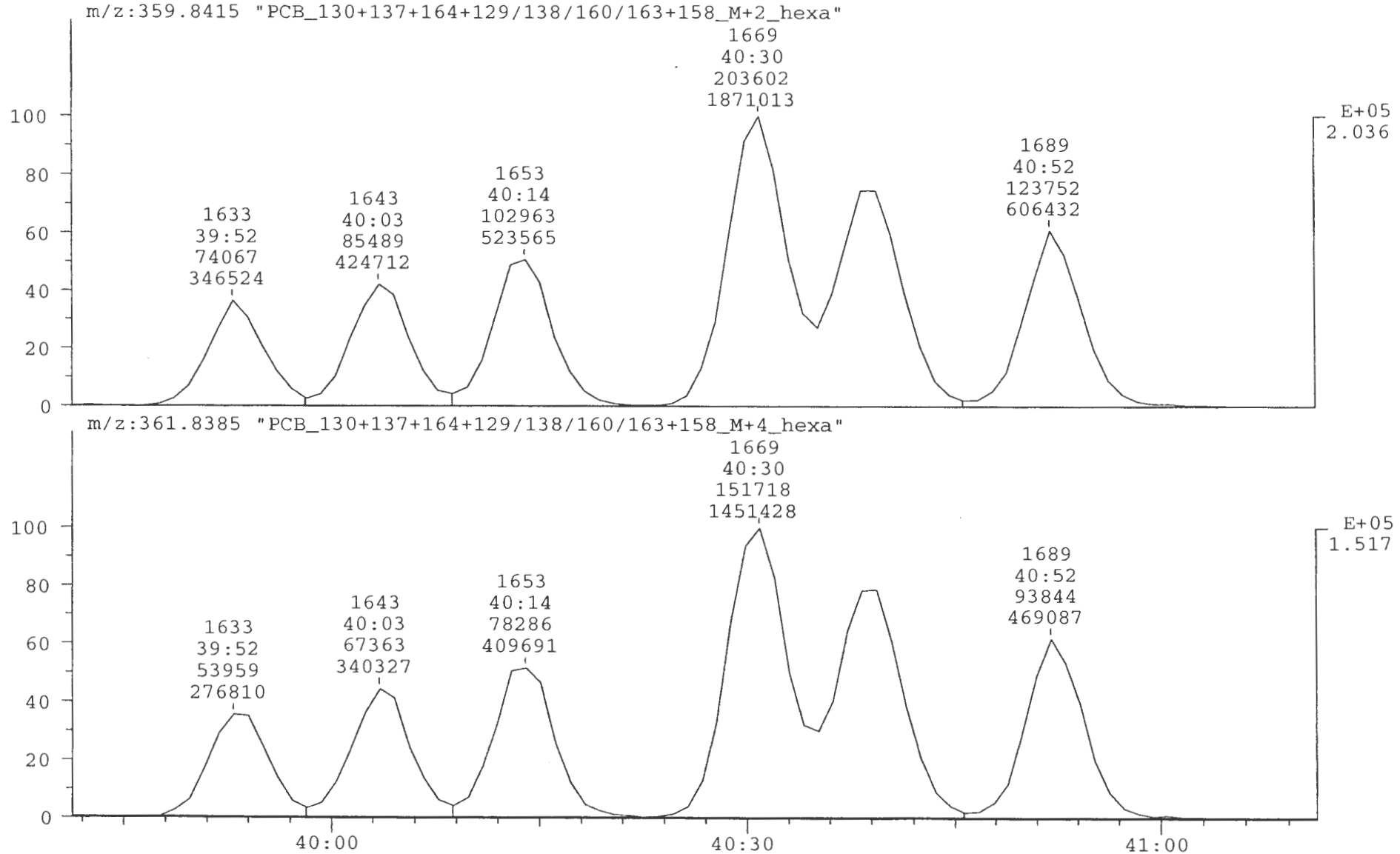
CHRO: a071012s1 12-Oct-07 Elapse: 38:22 1547
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1511 > 1580 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



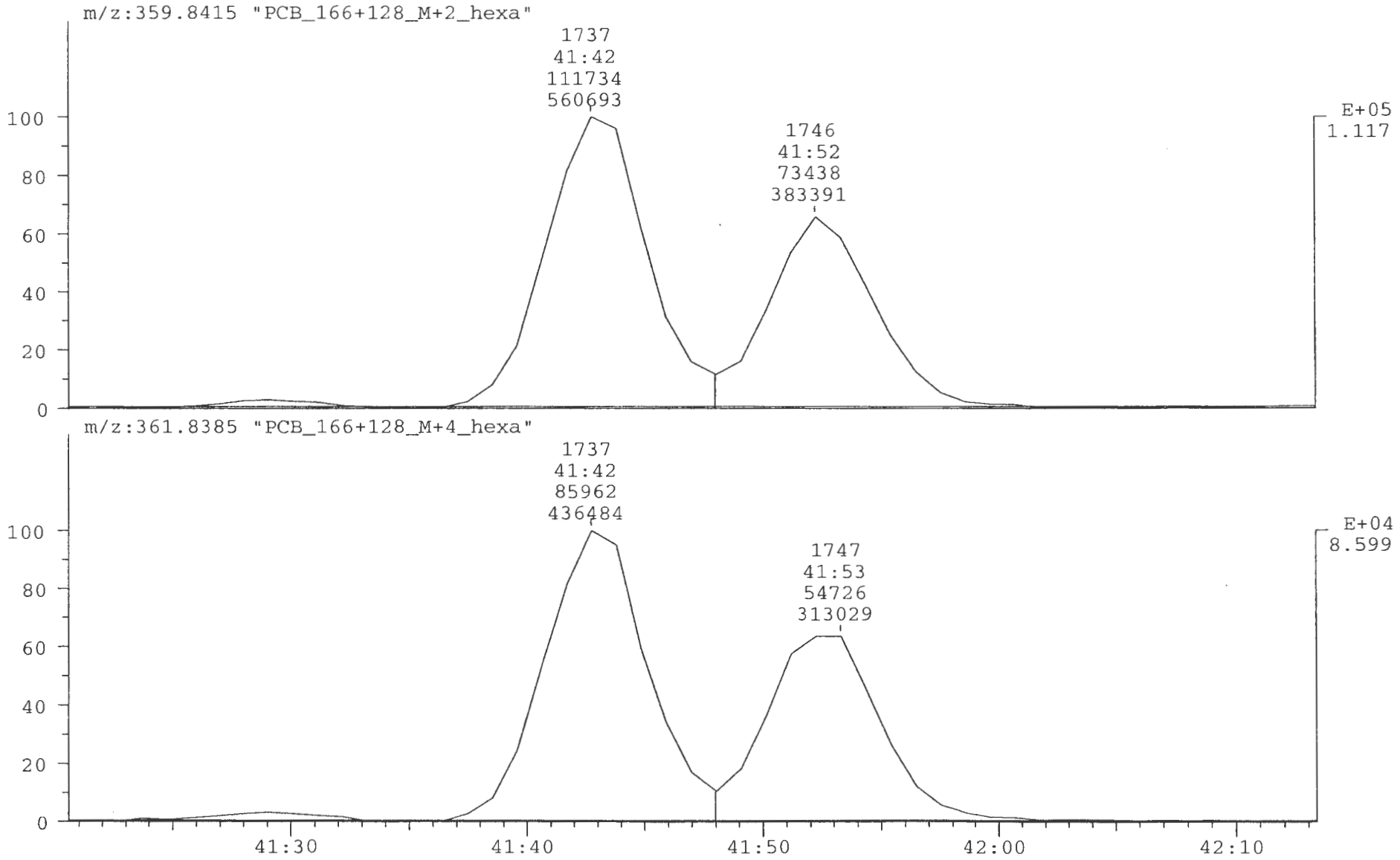
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  39:21      1603
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1578 > 1628            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



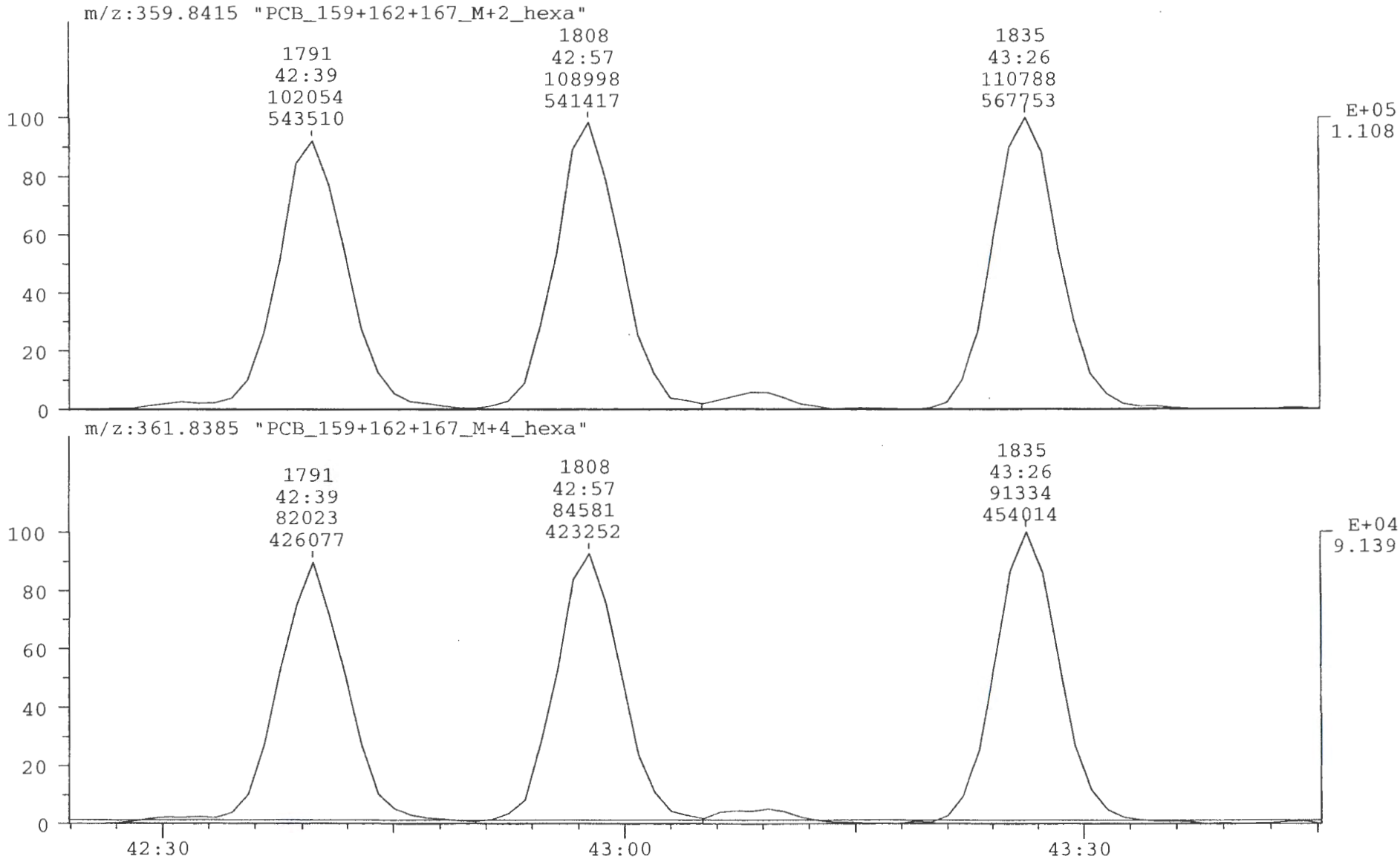
```
CHRO:  a071012s1                          12-Oct-07   Elapse:  40:23      1662
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville             Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1622 > 1707      Masses:  181 > 510
Area:  5, 0.50, 0      Baseline  :   100, 7           Label :  -3, 3.0
Disp:  Height  Area
```



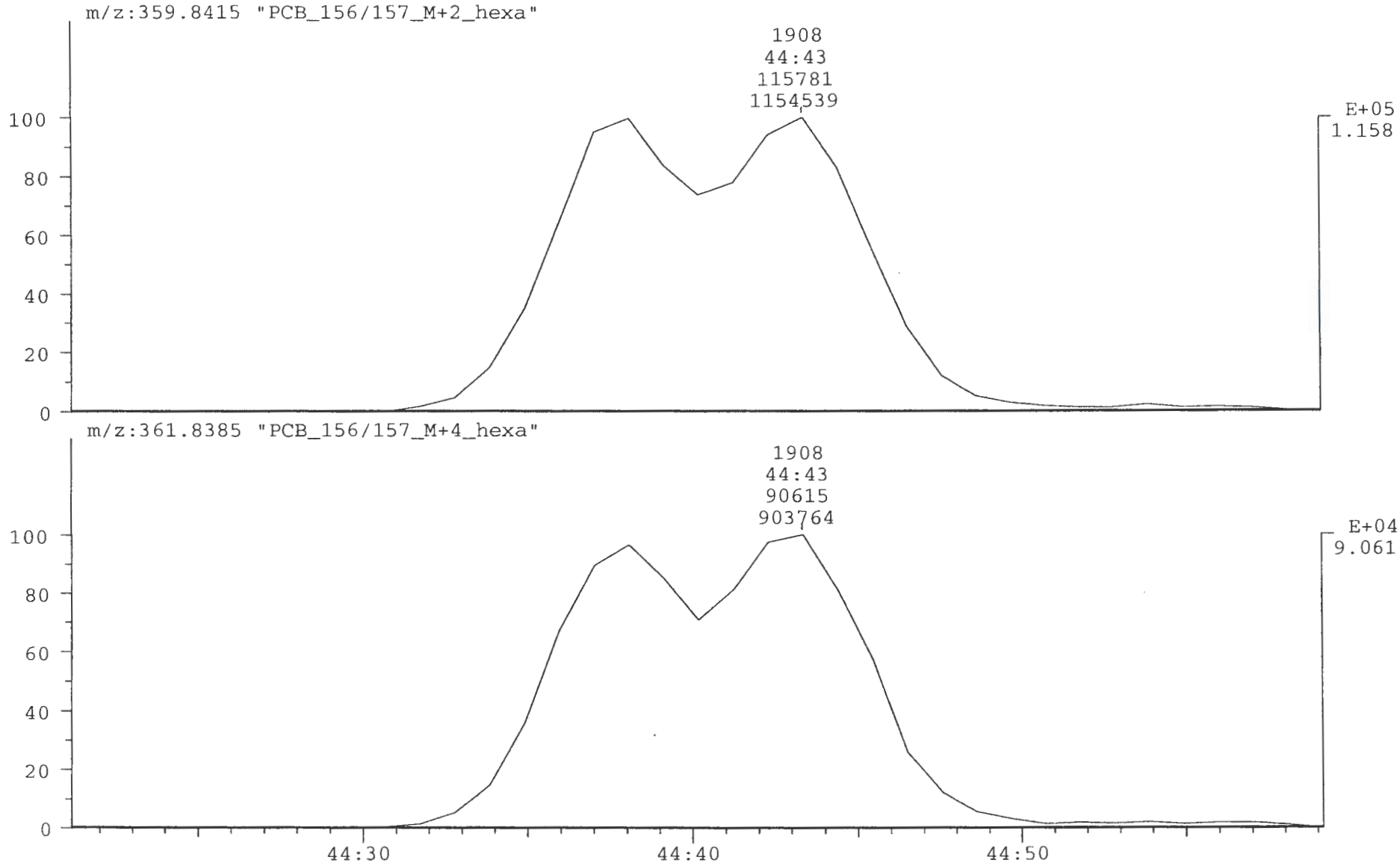
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  41:46      1741
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1716 > 1766           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



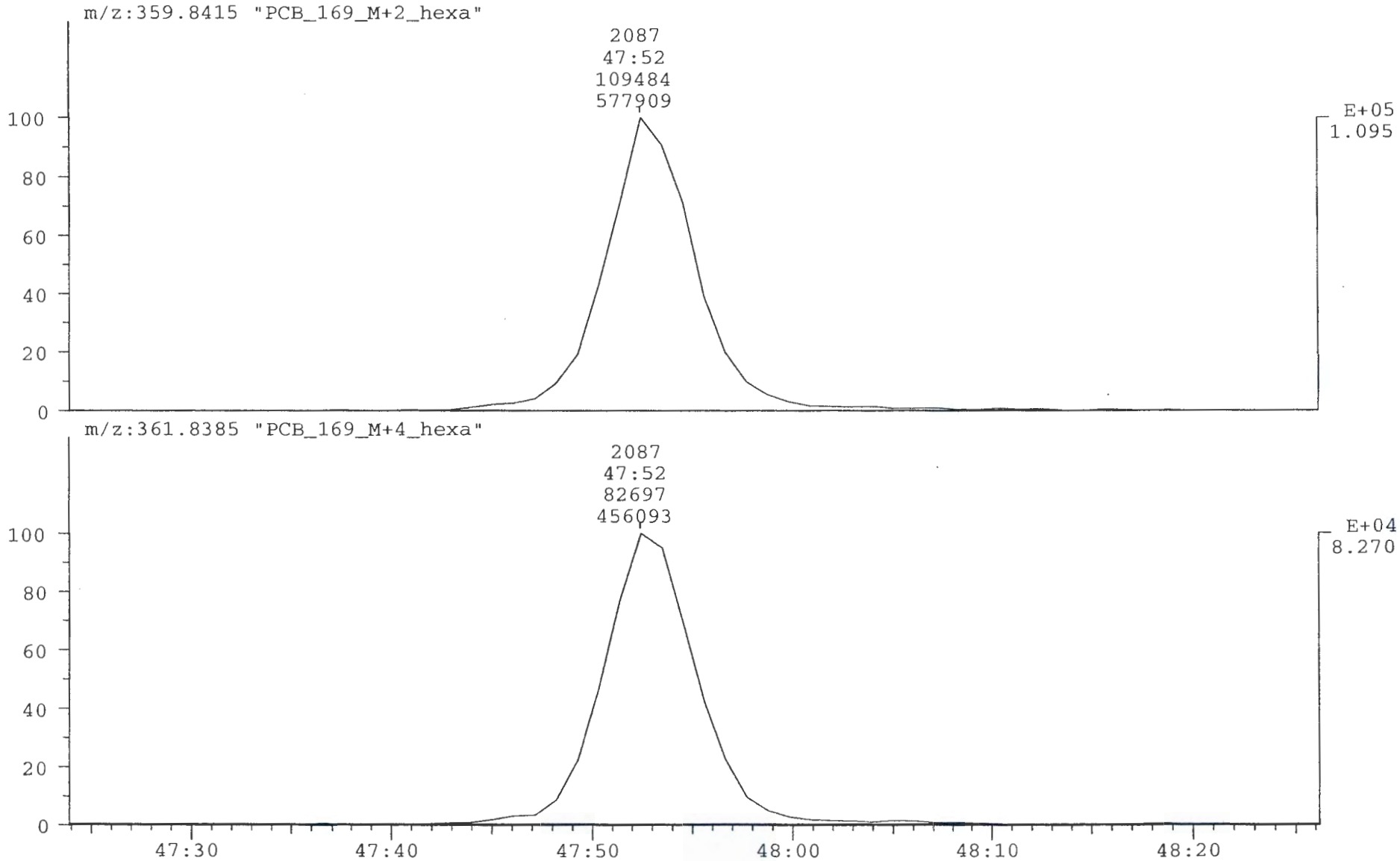
```
CHRO:  a071012s1                              12-Oct-07  Elapse:  43:06      1816
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                  Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville              Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1776 > 1853        Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071012s1                                12-Oct-07   Elapse:  44:37      1902
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1887 > 1923           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9                Label :  -3, 3.0
Disp:  Height  Area
```

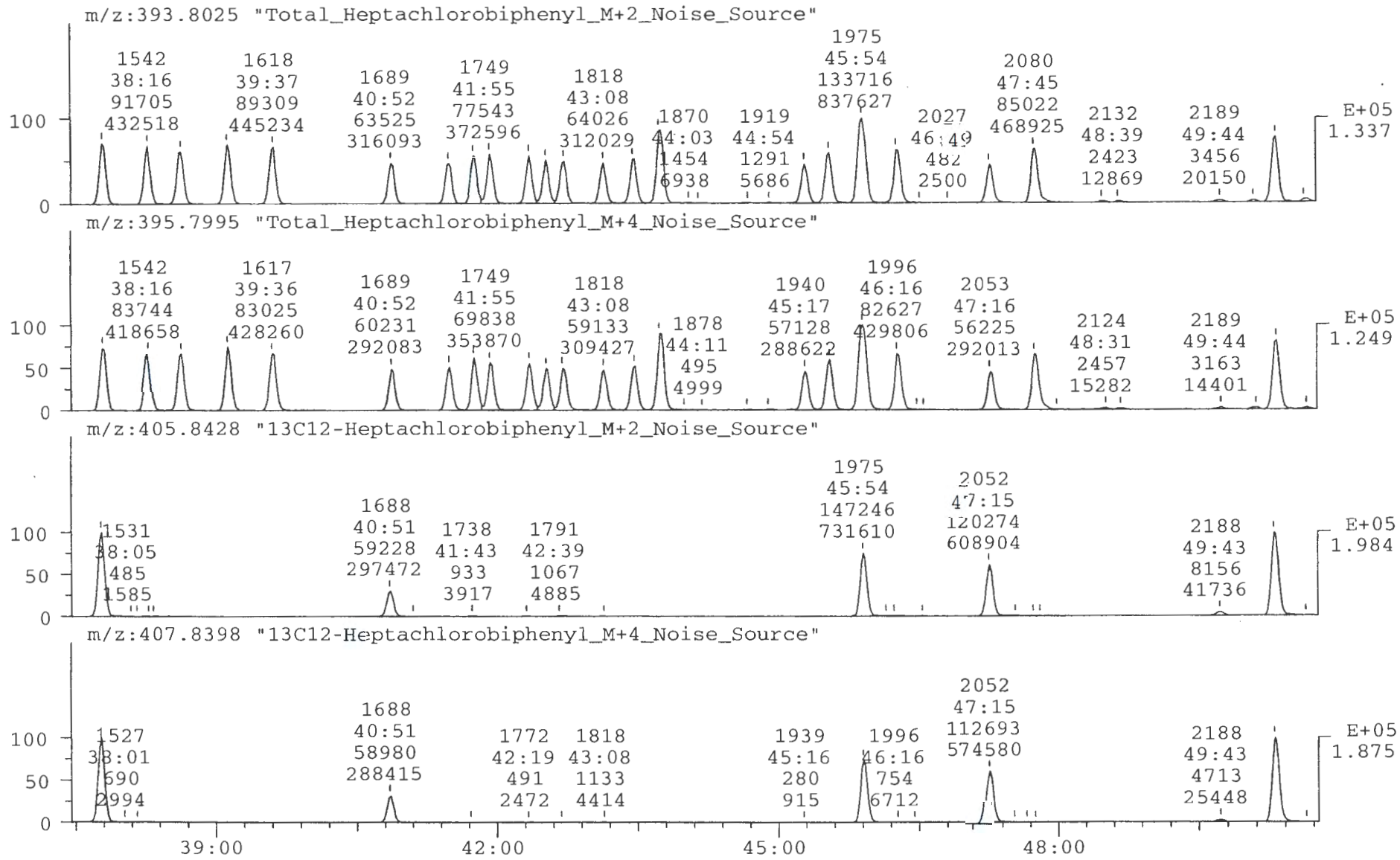


```
CHRO:  a071012s1                              12-Oct-07   Elapse:  47:50      2085
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2060 > 2119         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



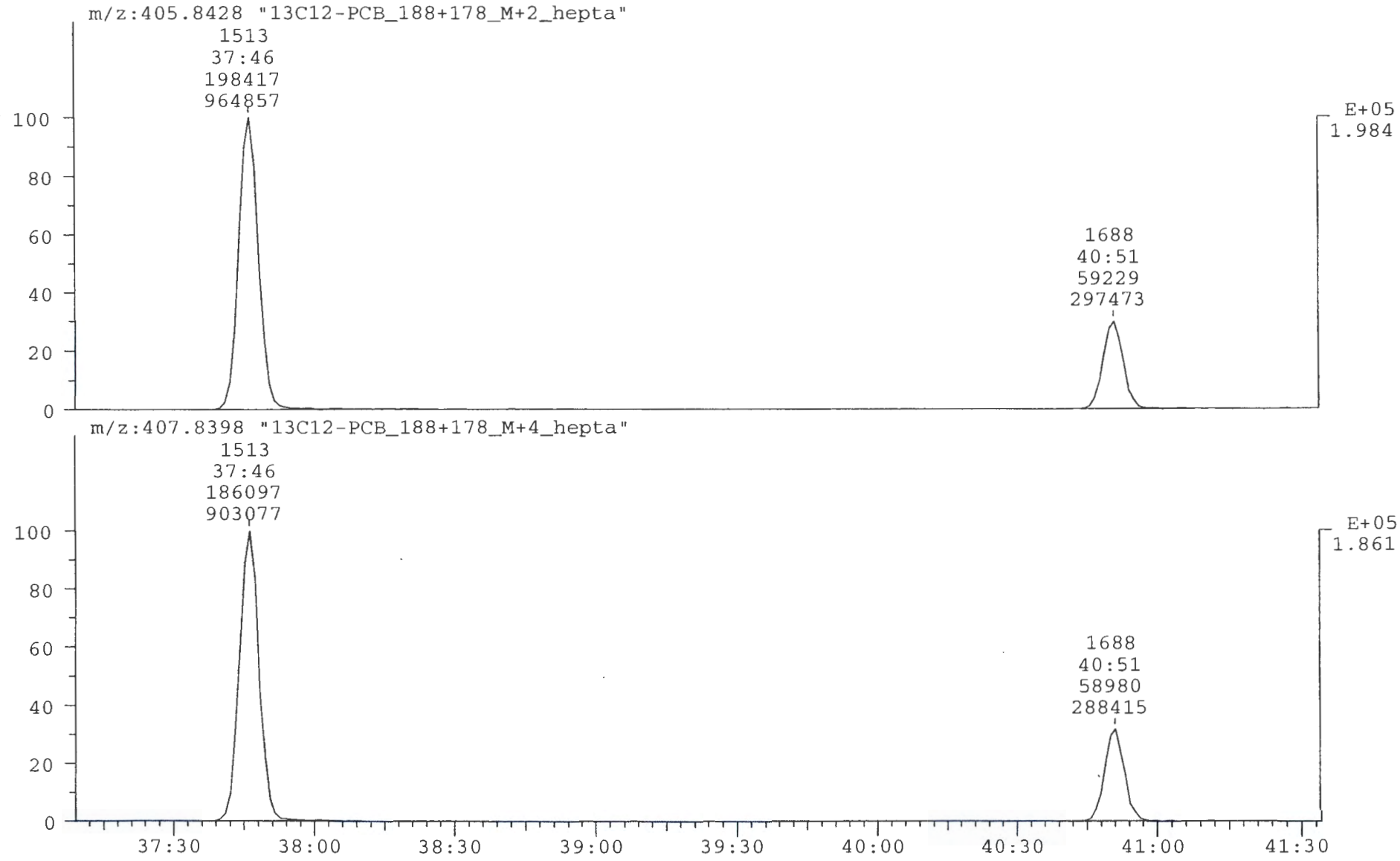
2747

CHRO: a071012s1 12-Oct-07 Elapse: 44:06 1873
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1495 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

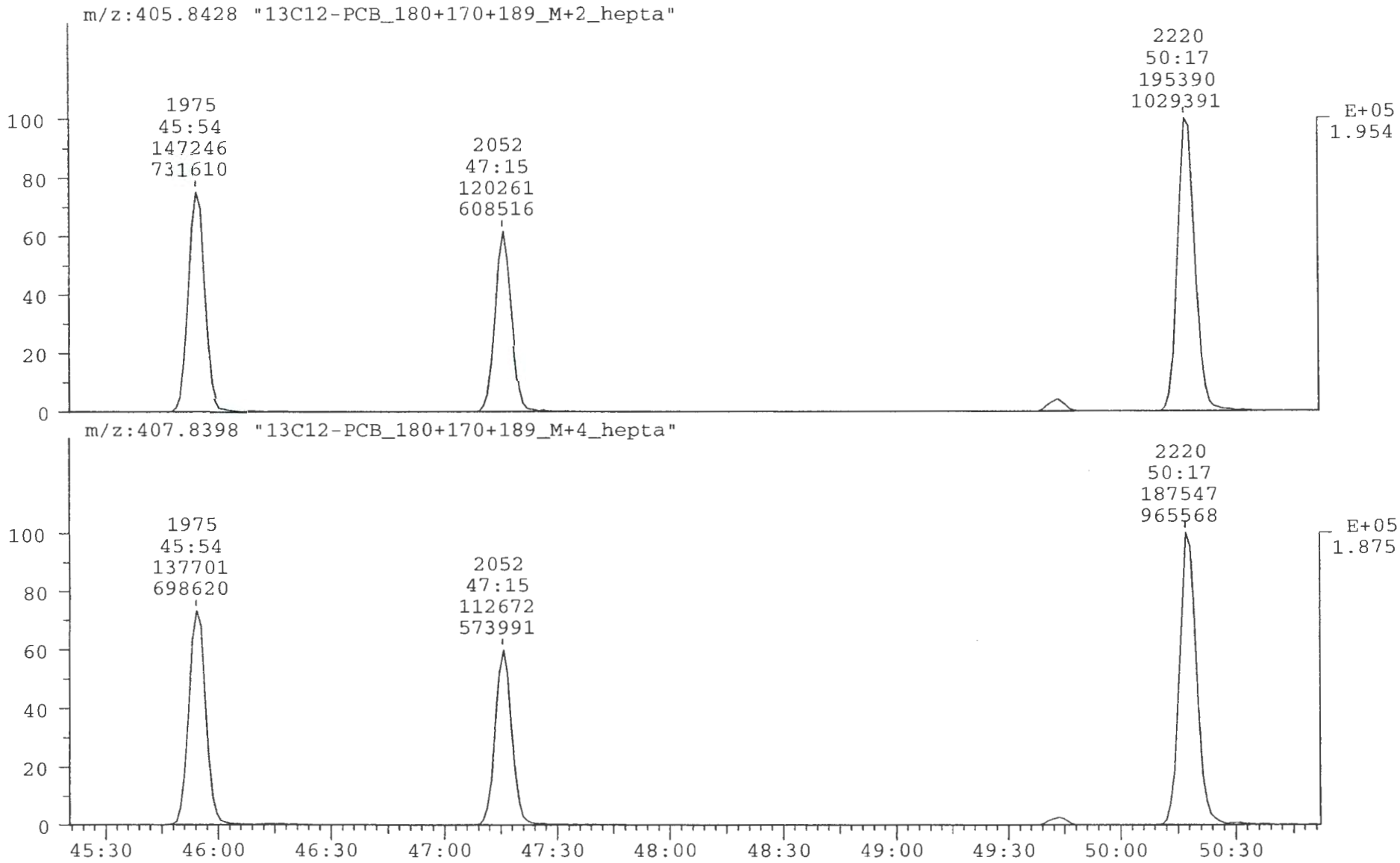


2748

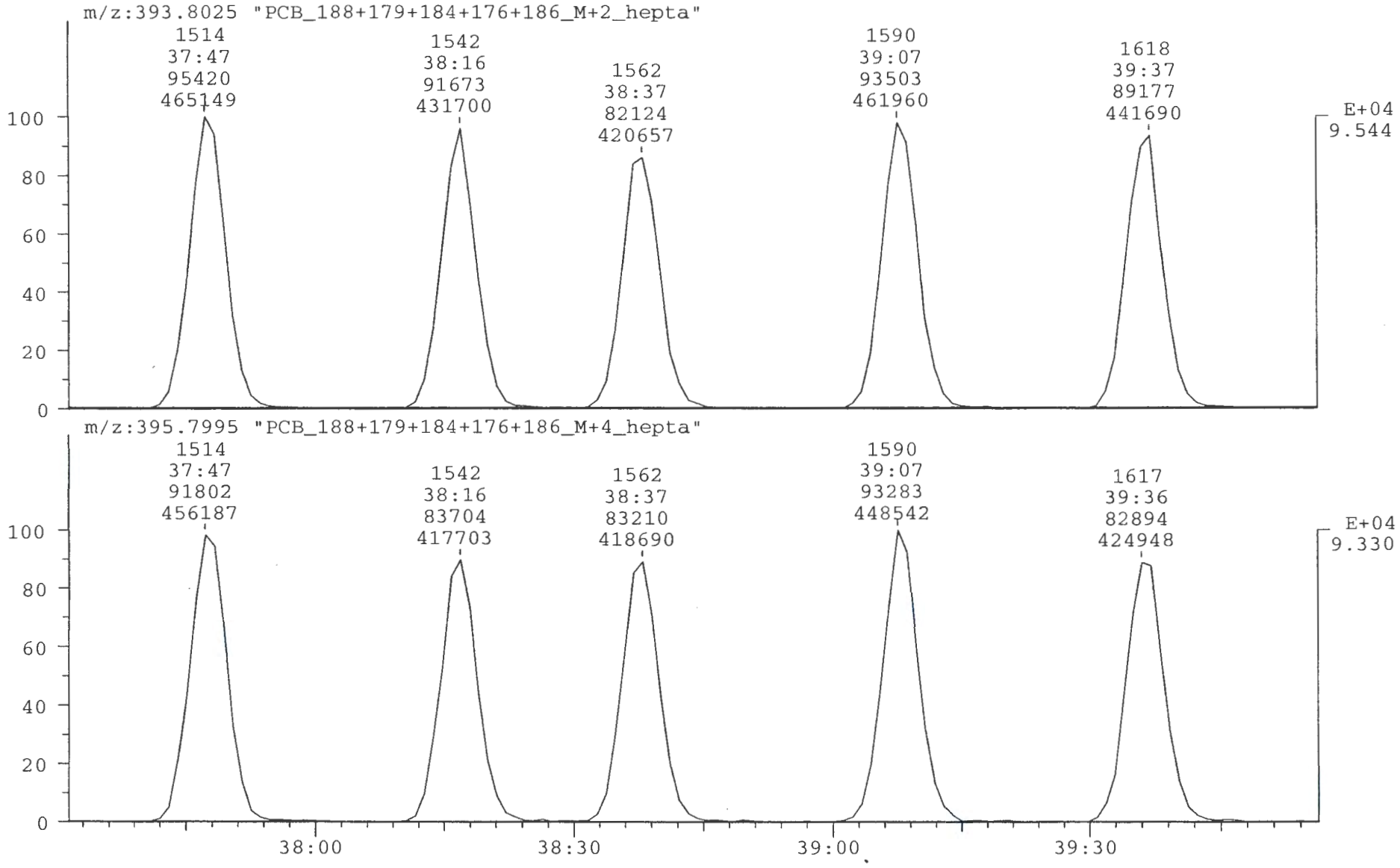
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  39:21      1603
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1478 > 1729           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



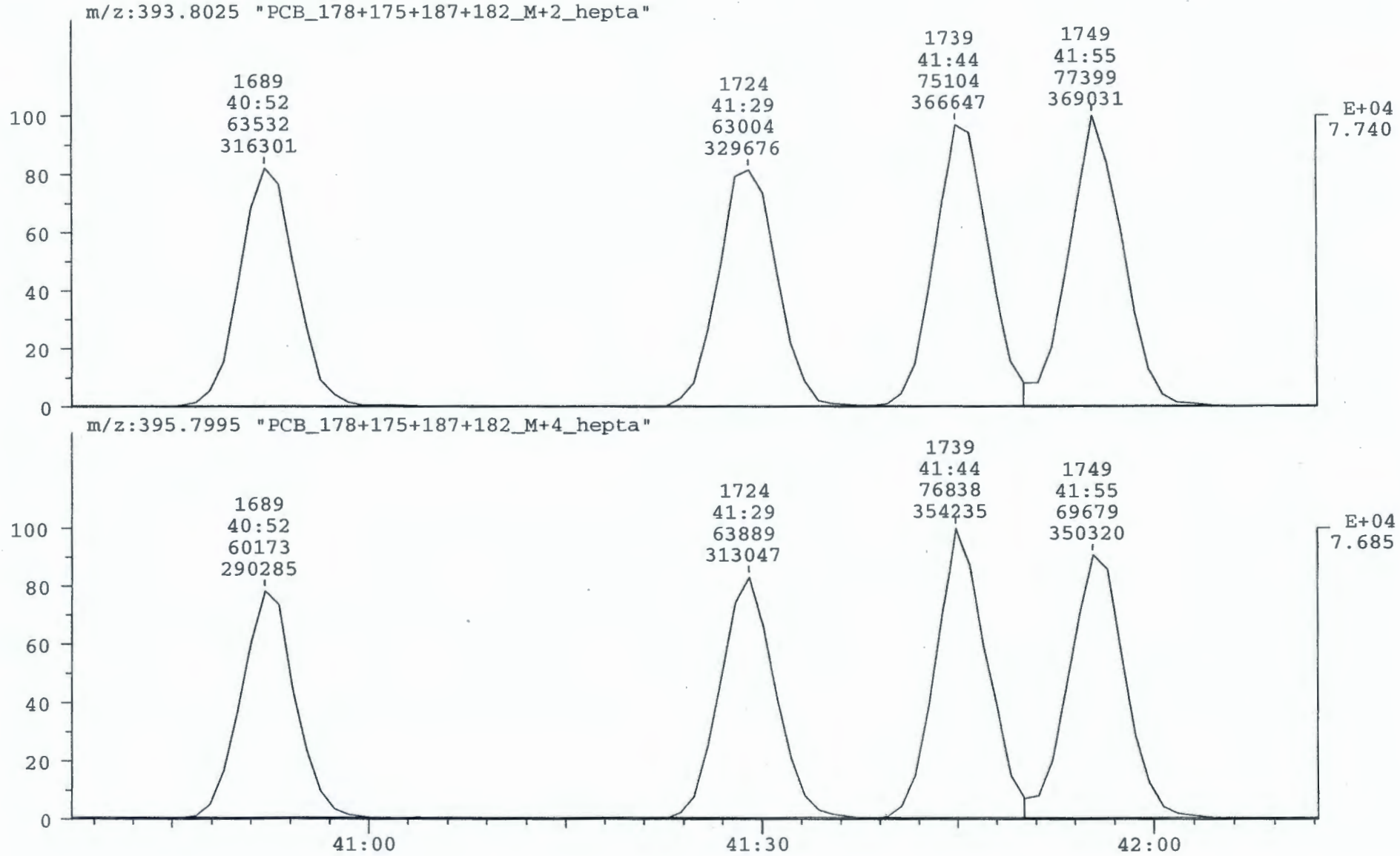
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  48:09      2103
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1943 > 2253           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



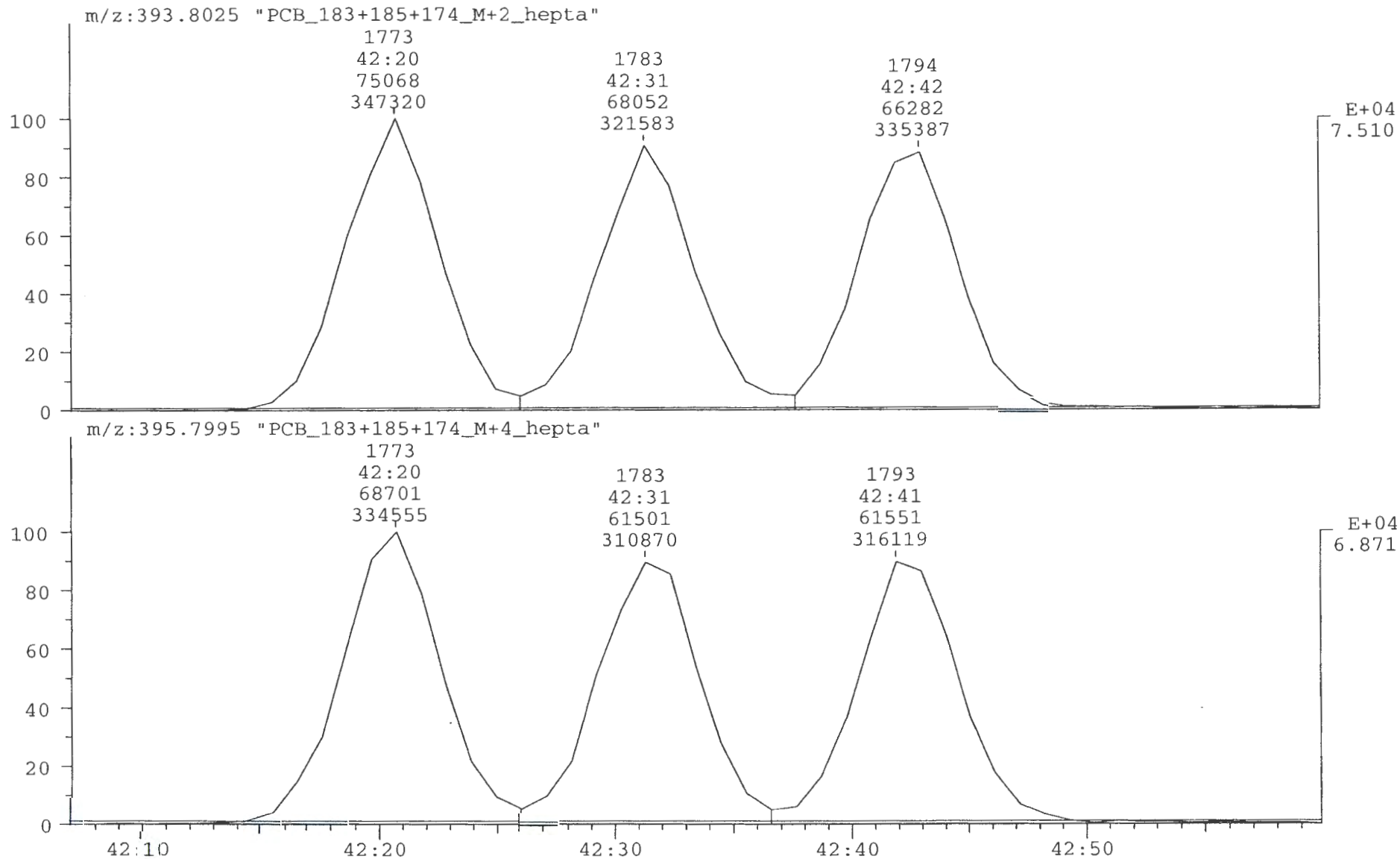
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  38:43      1567
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1499 > 1636            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



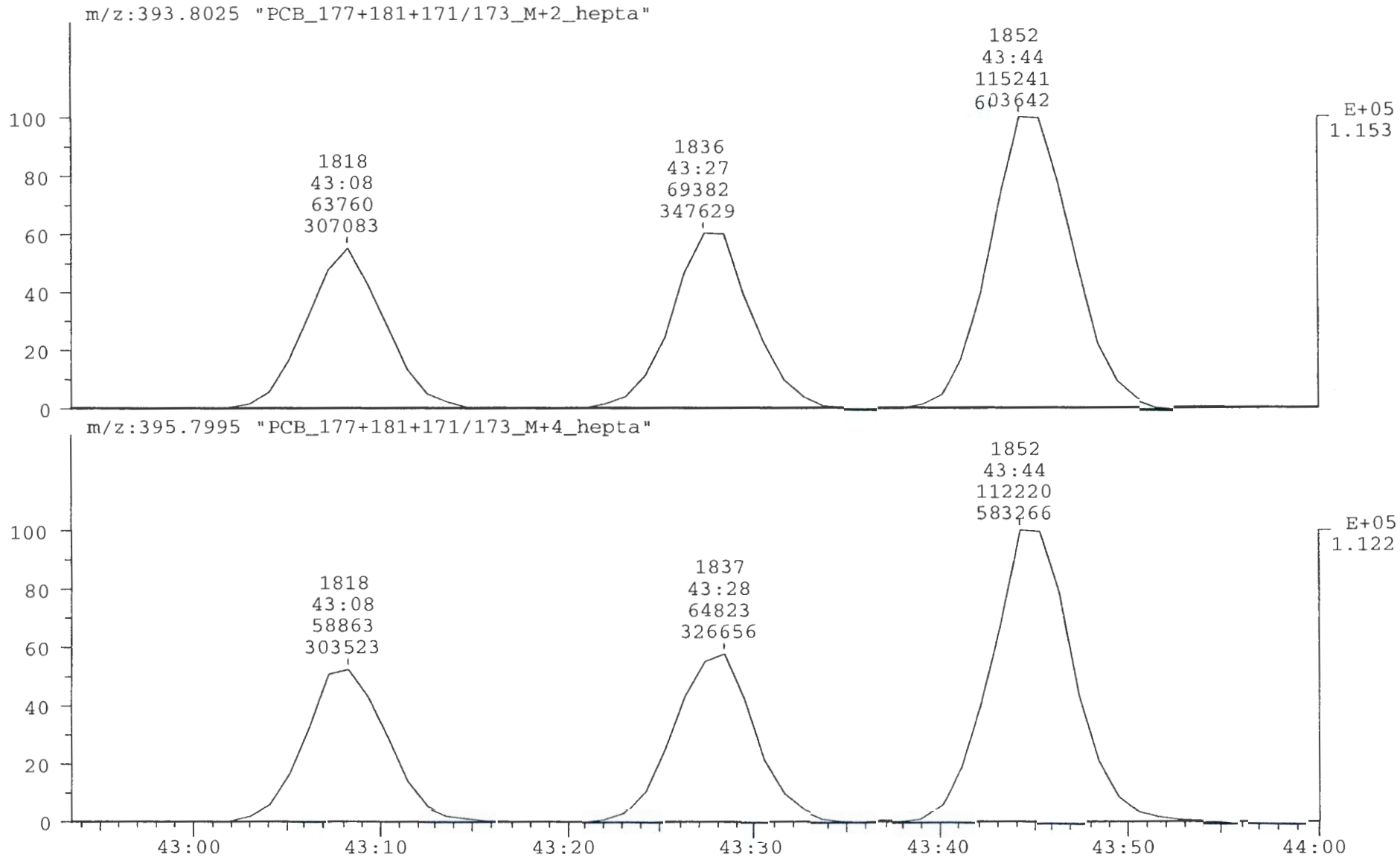
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  41:30      1725
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1675 > 1765           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



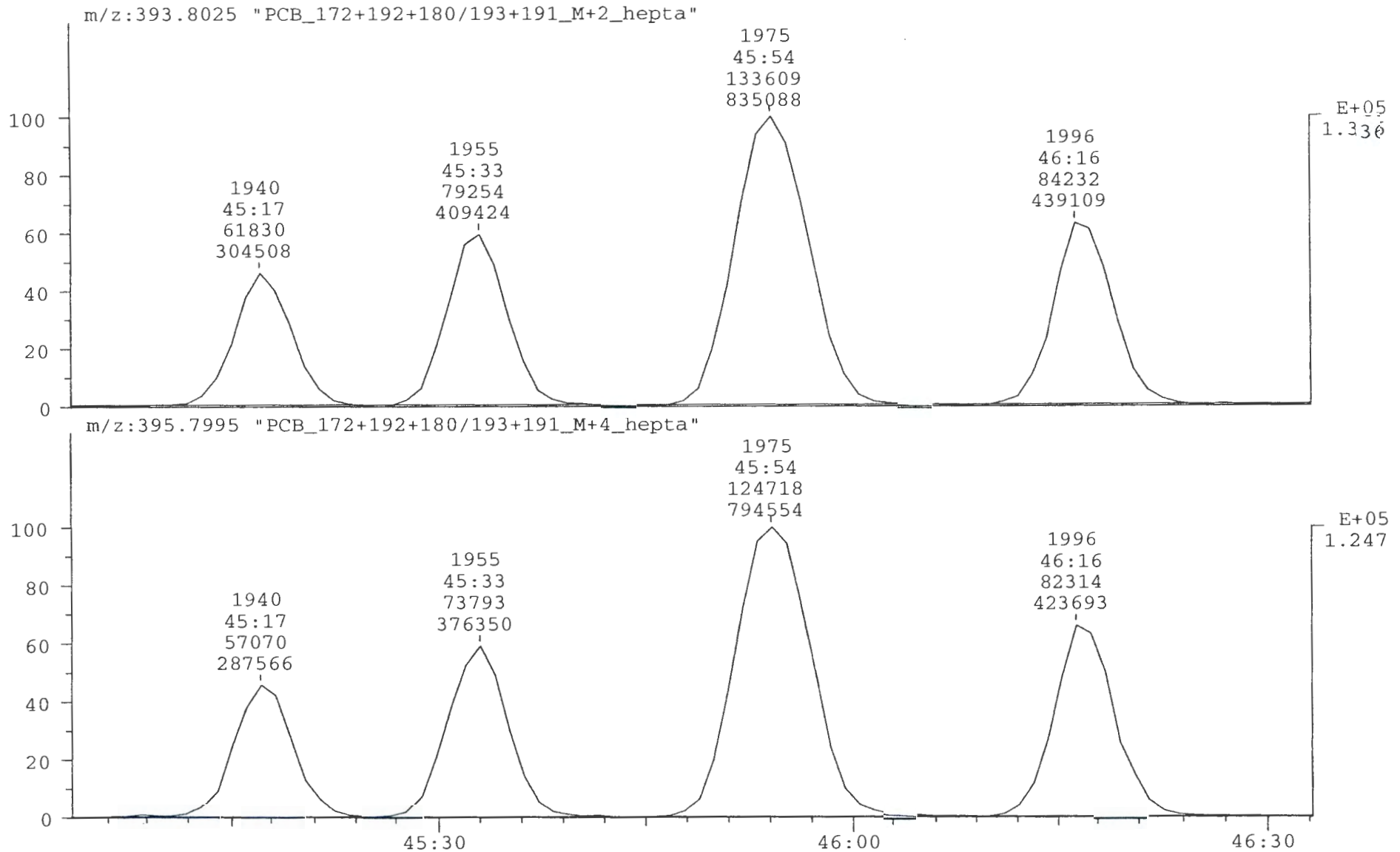
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  42:40      1792
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1760 > 1810            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



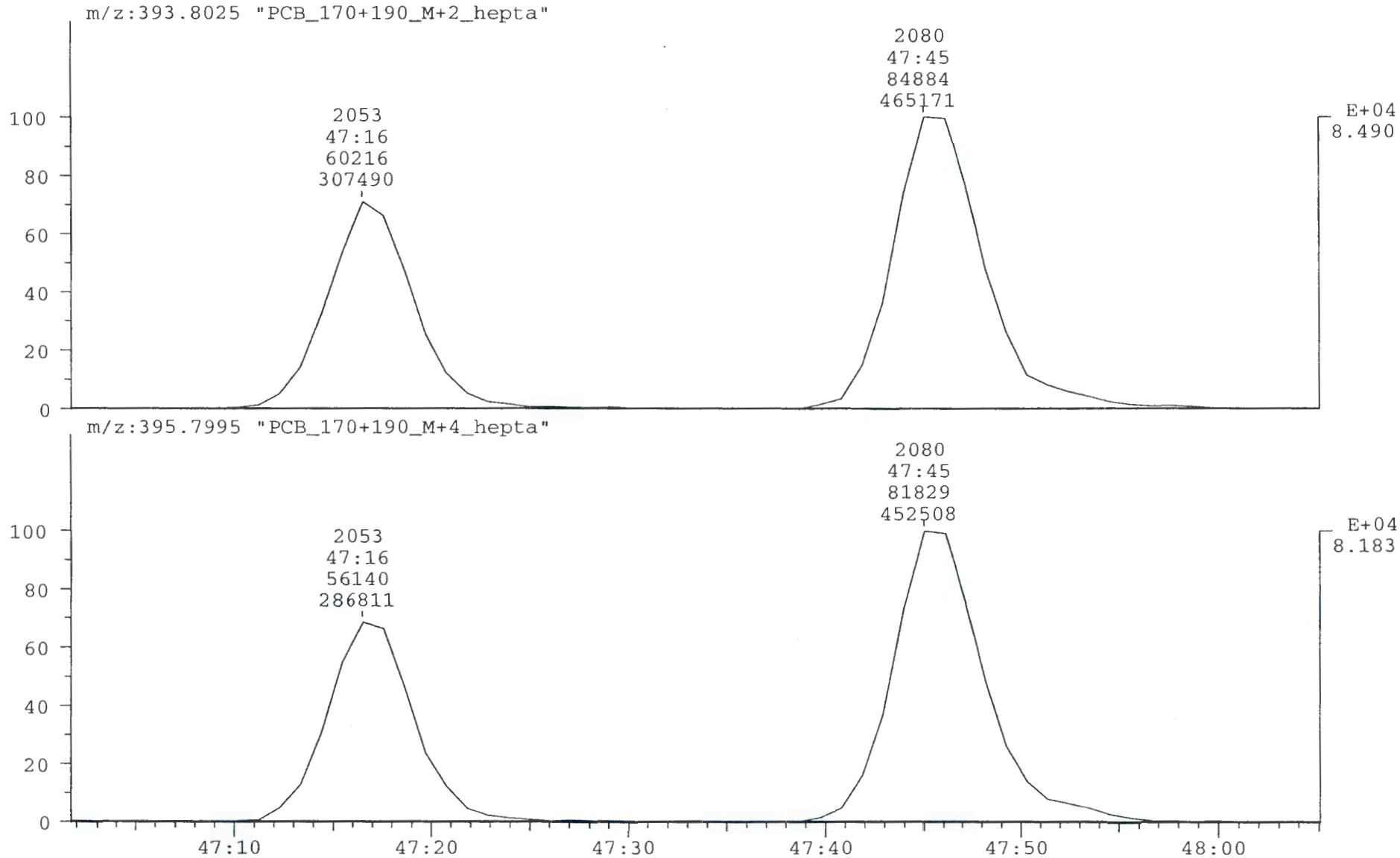
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  43:28      1837
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1804 > 1867           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



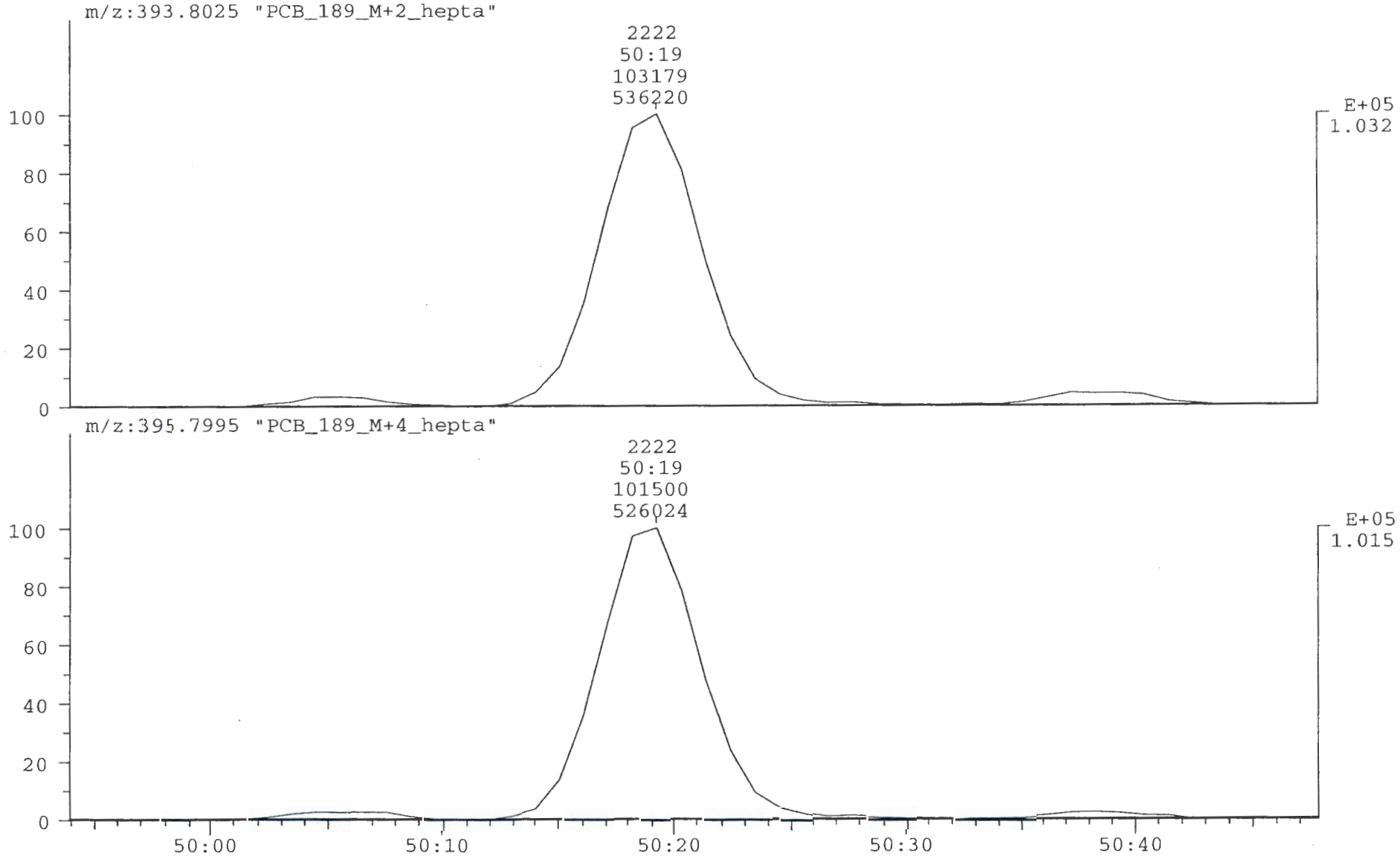
```
CHRO:  a071012s1                                12-Oct-07  Elapse:  45:56      1977
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1927 > 2012          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



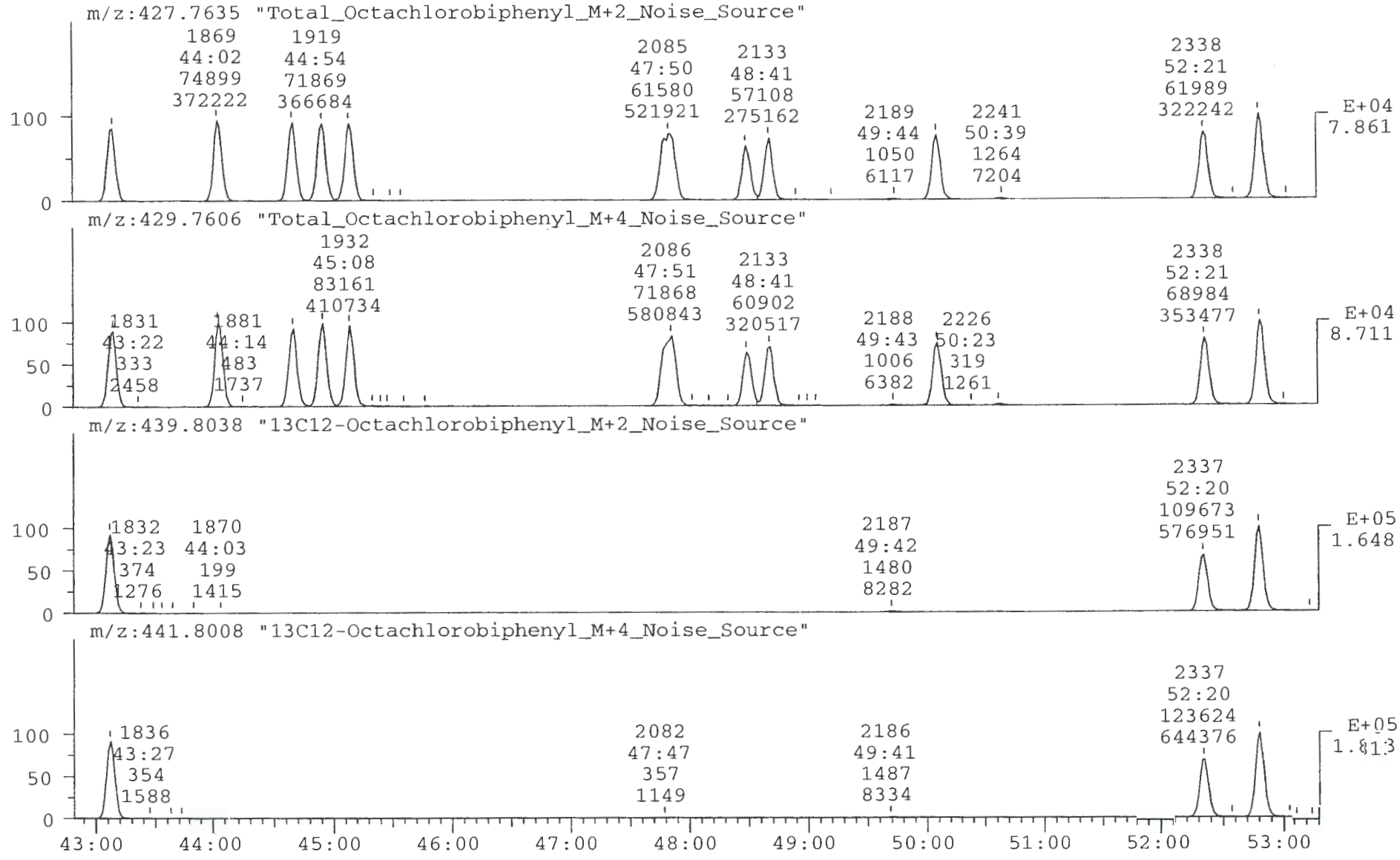
CHRO: a071012s1 12-Oct-07 Elapse: 47:35 2071
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2039 > 2099 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a071012s1                                12-Oct-07   Elapse:  50:19      2222
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2198 > 2249           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

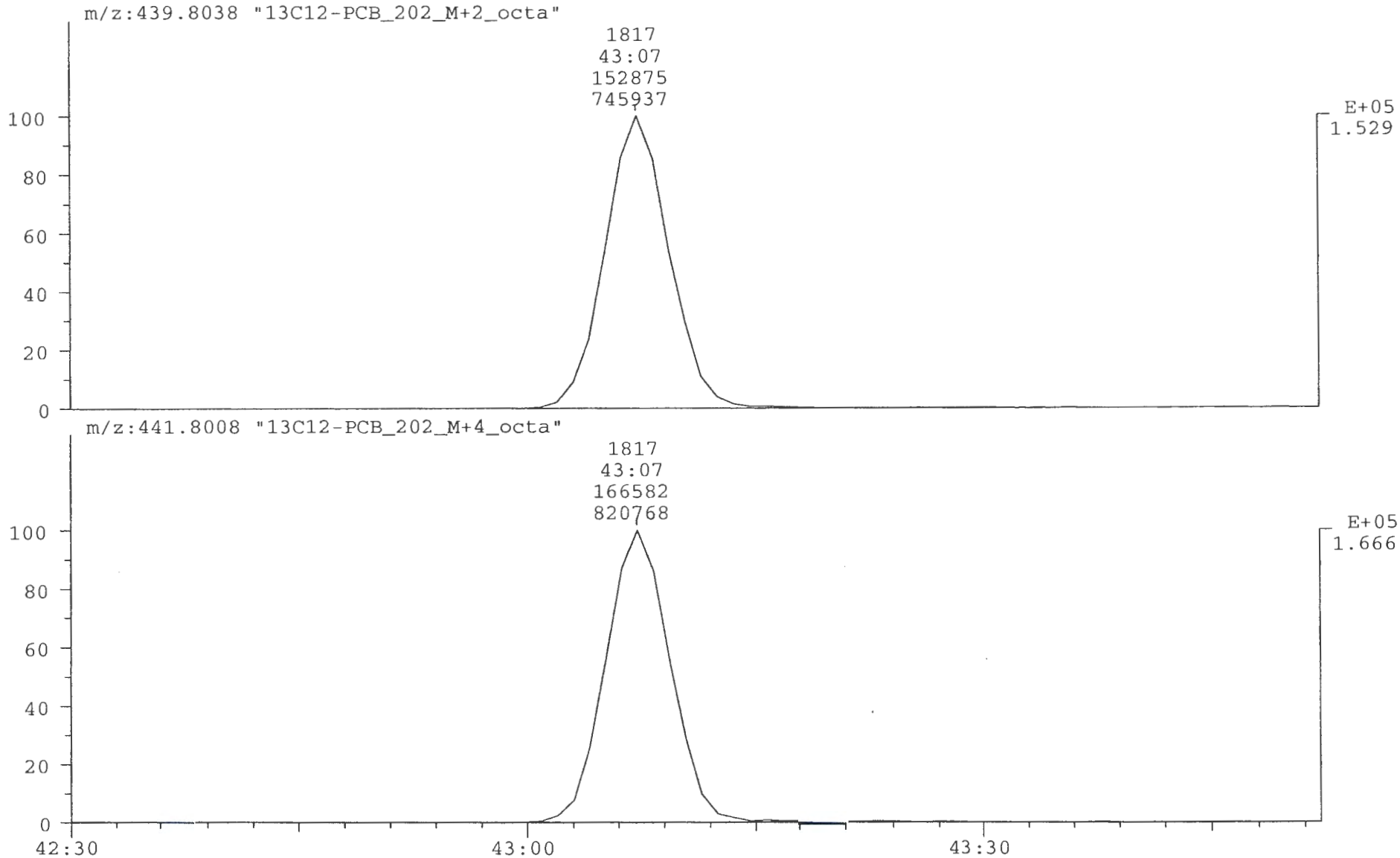


CHRO: a071012s1 12-Oct-07 Elapse: 48:03 2097
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1800 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

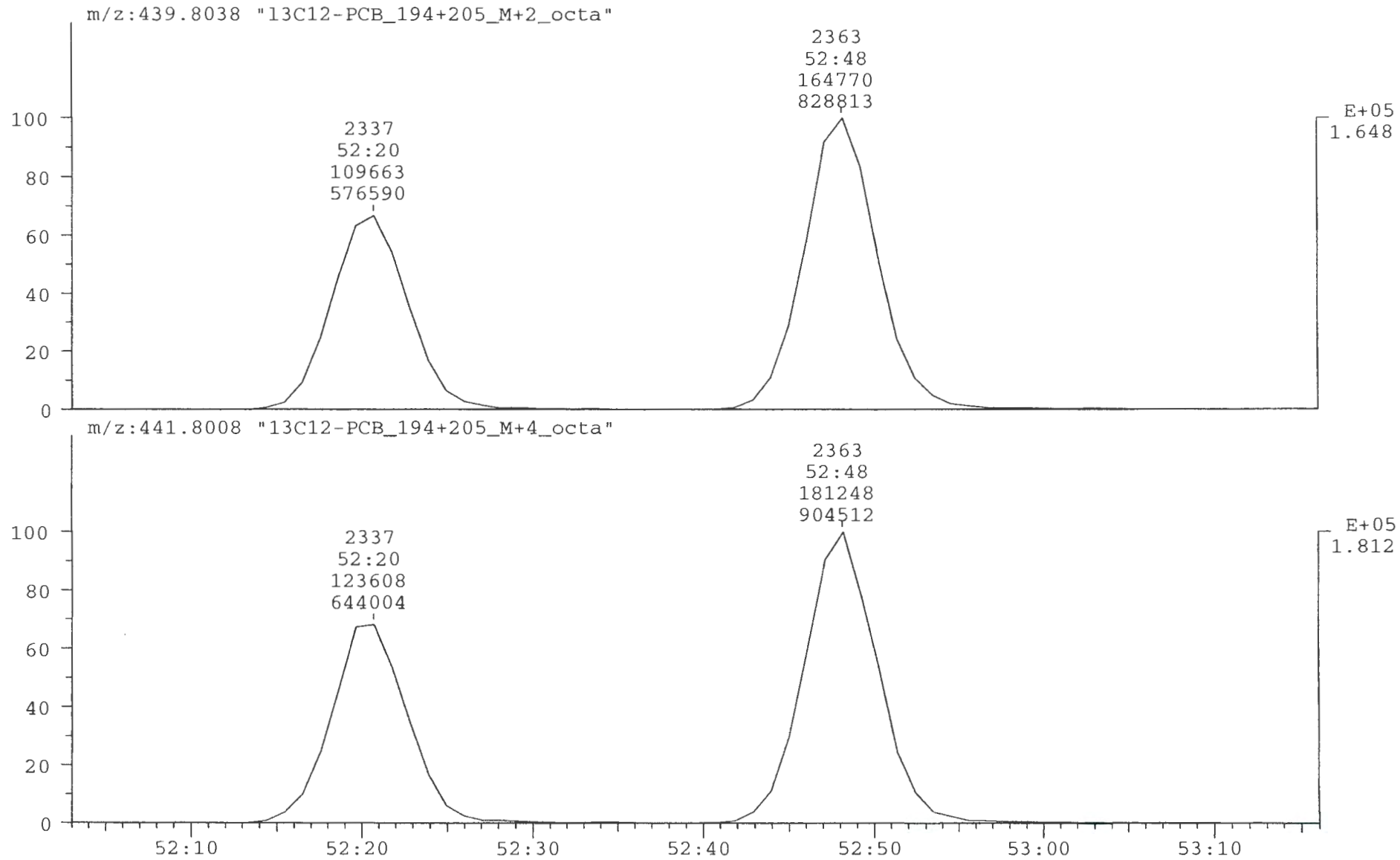


2758

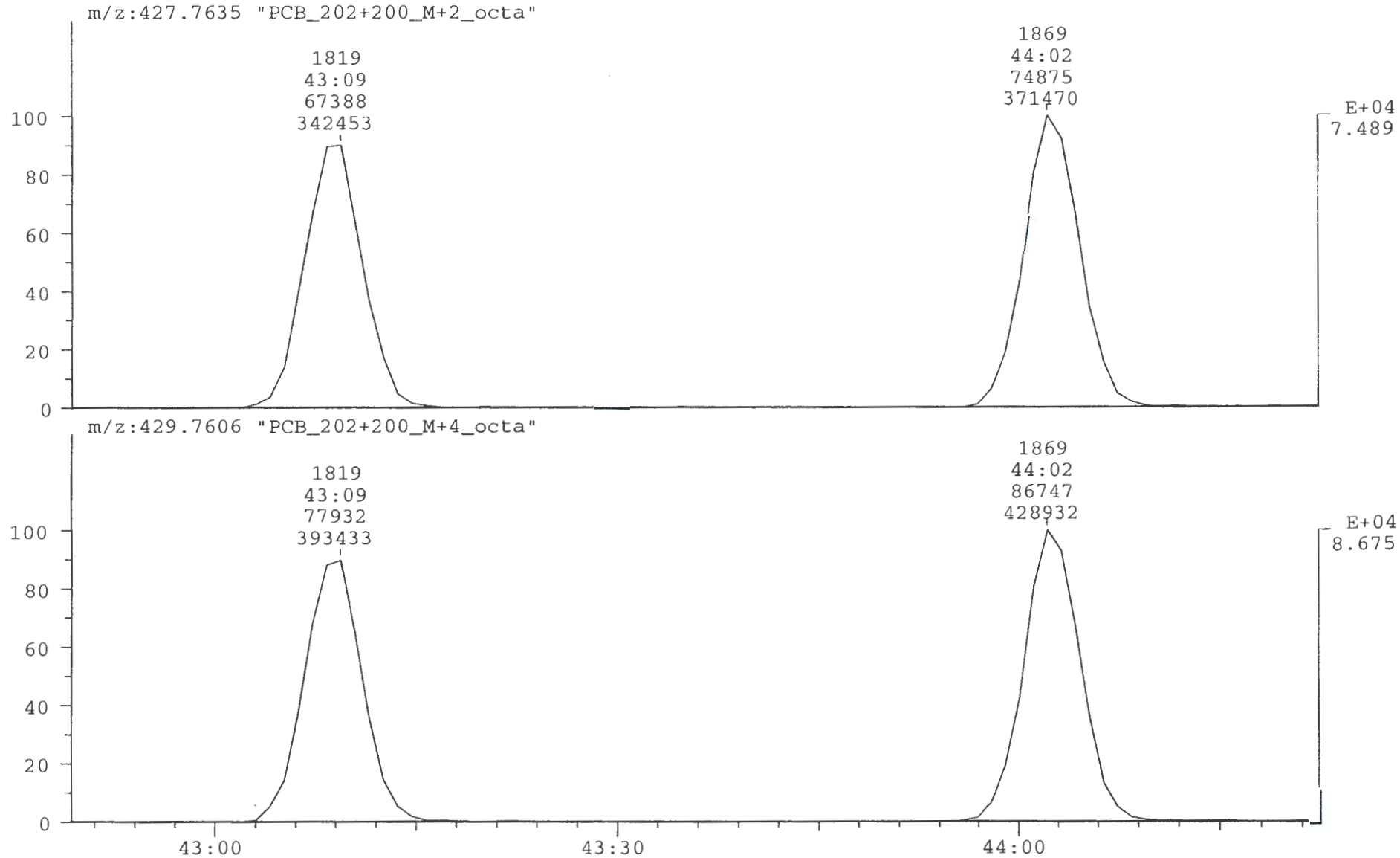
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  43:08      1818
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1782 > 1859           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



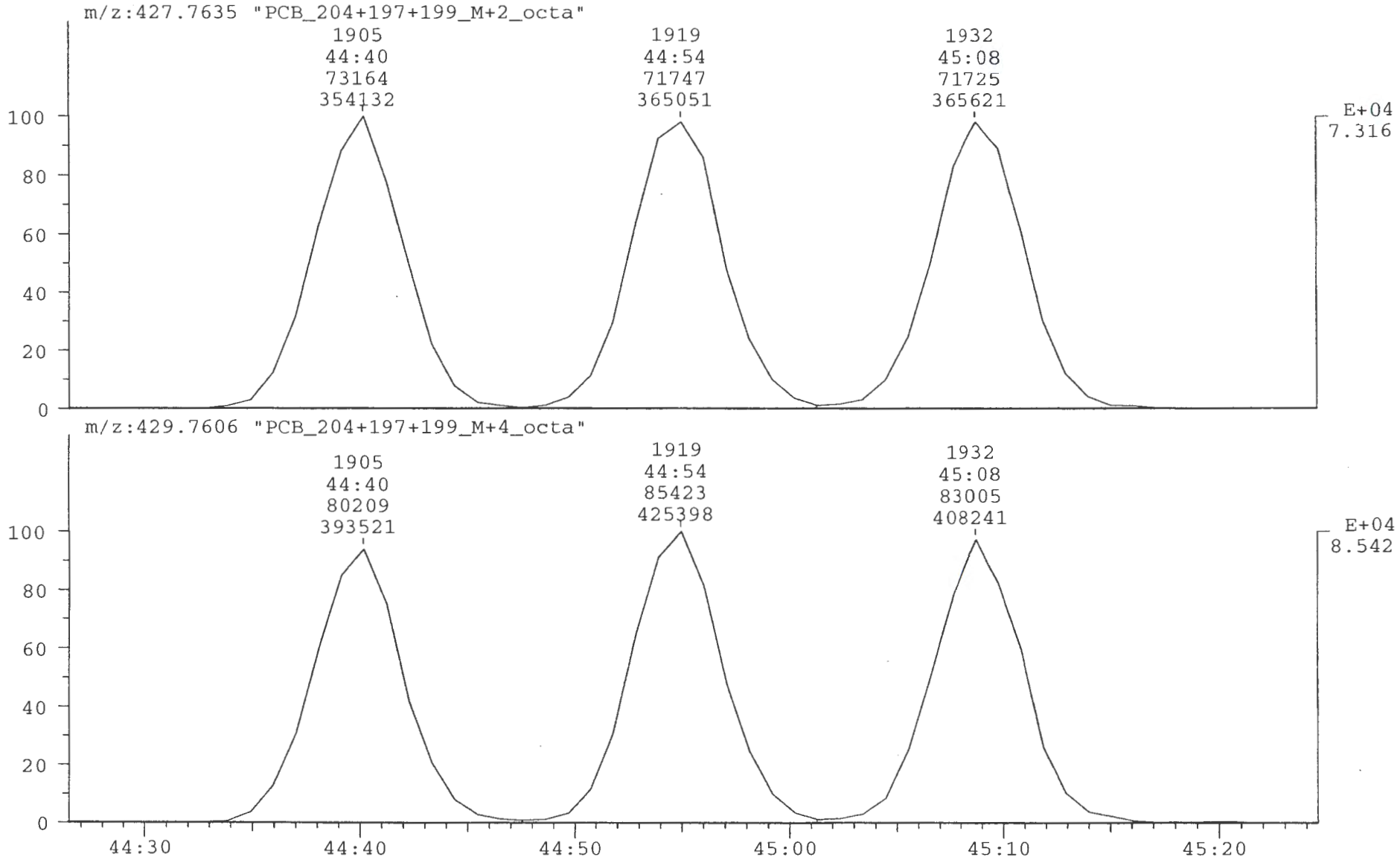
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  52:38      2354
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   2320 > 2389            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



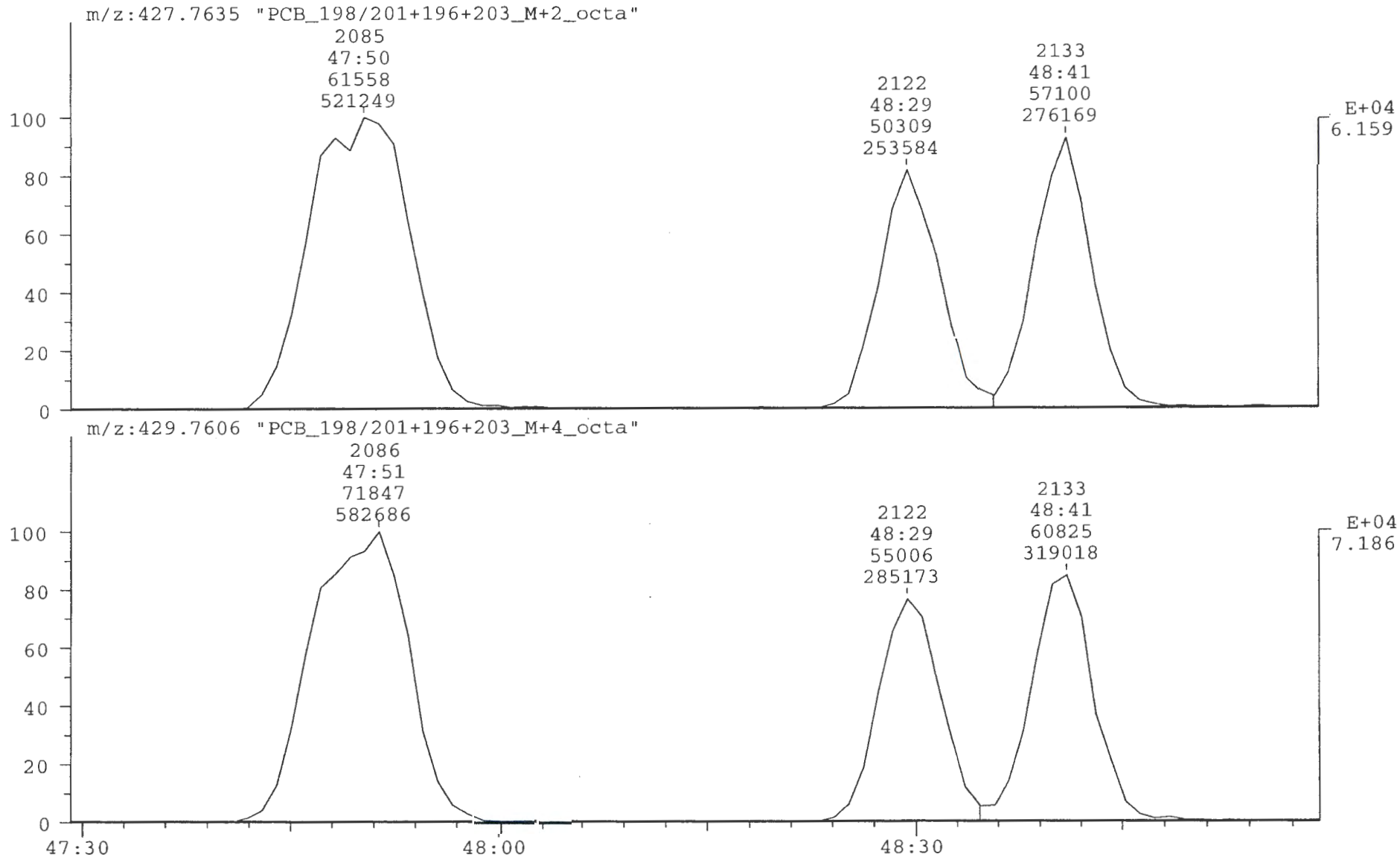
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  43:40      1848
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1800 > 1888           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



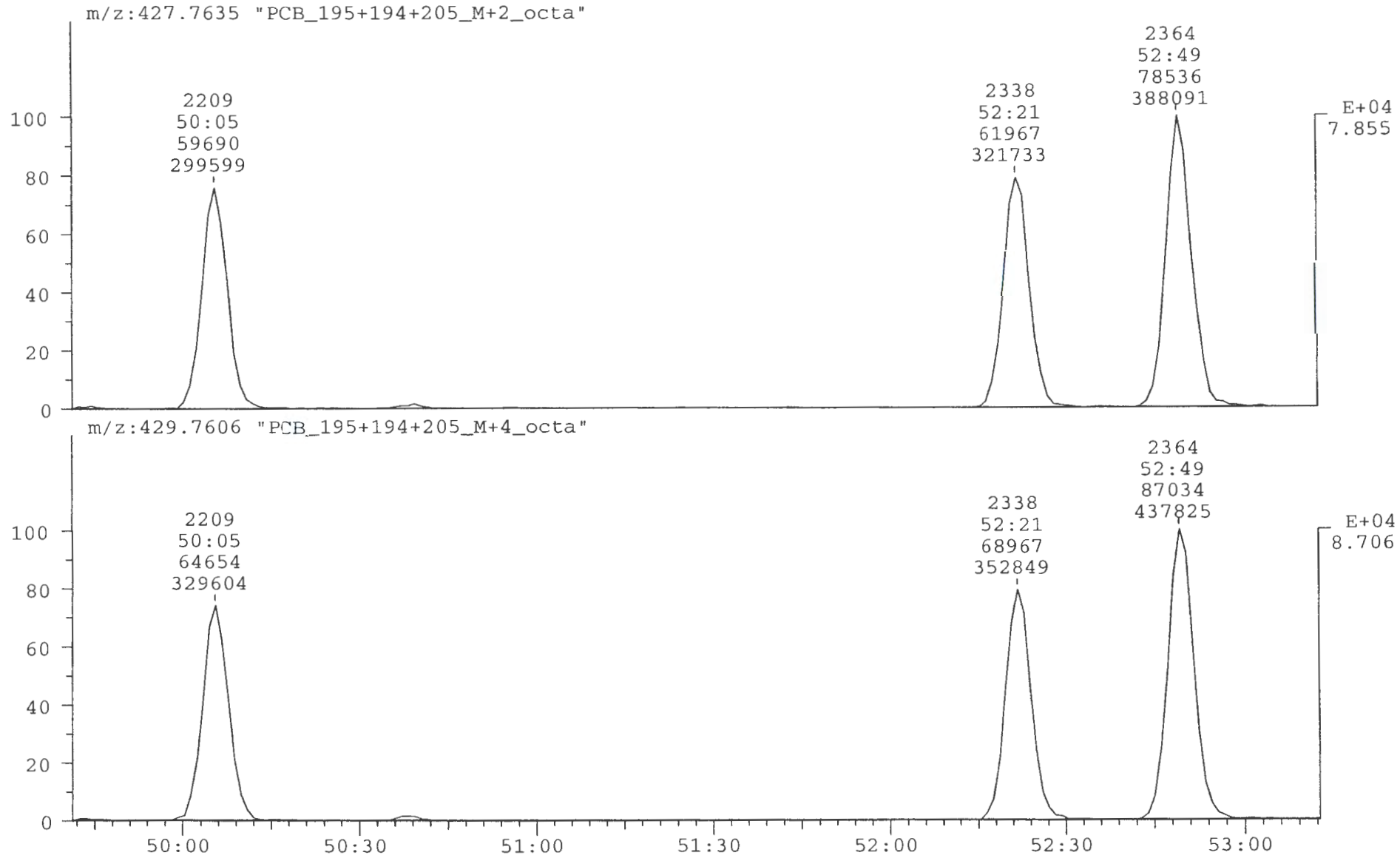
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  44:43      1908
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1892 > 1947           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



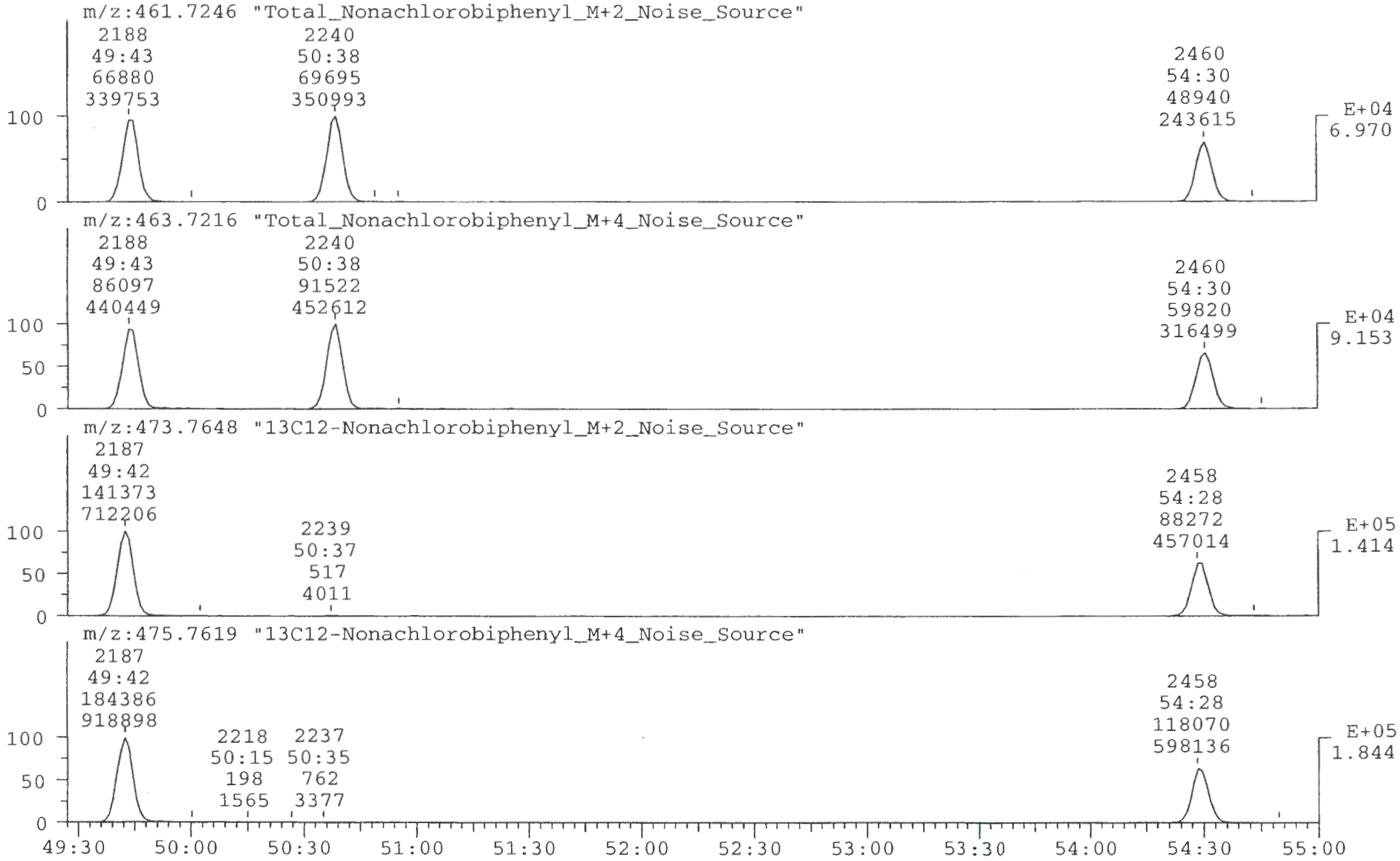
CHRO: a071012s1 12-Oct-07 Elapse: 48:32 2125
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2065 > 2150 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



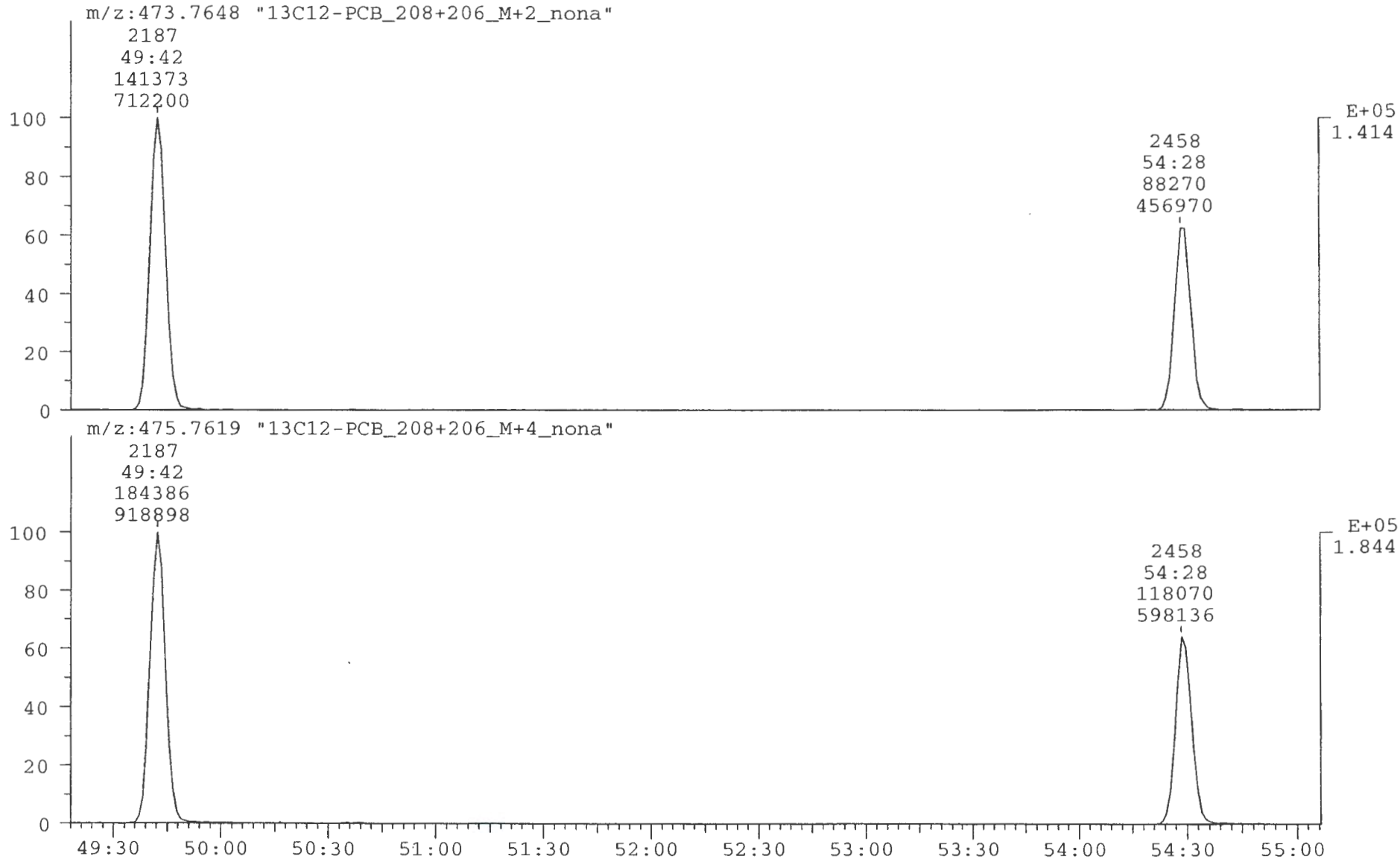
```
CHRO:  a071012s1                                12-Oct-07   Elapse:  52:24      2341
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2186 > 2386            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



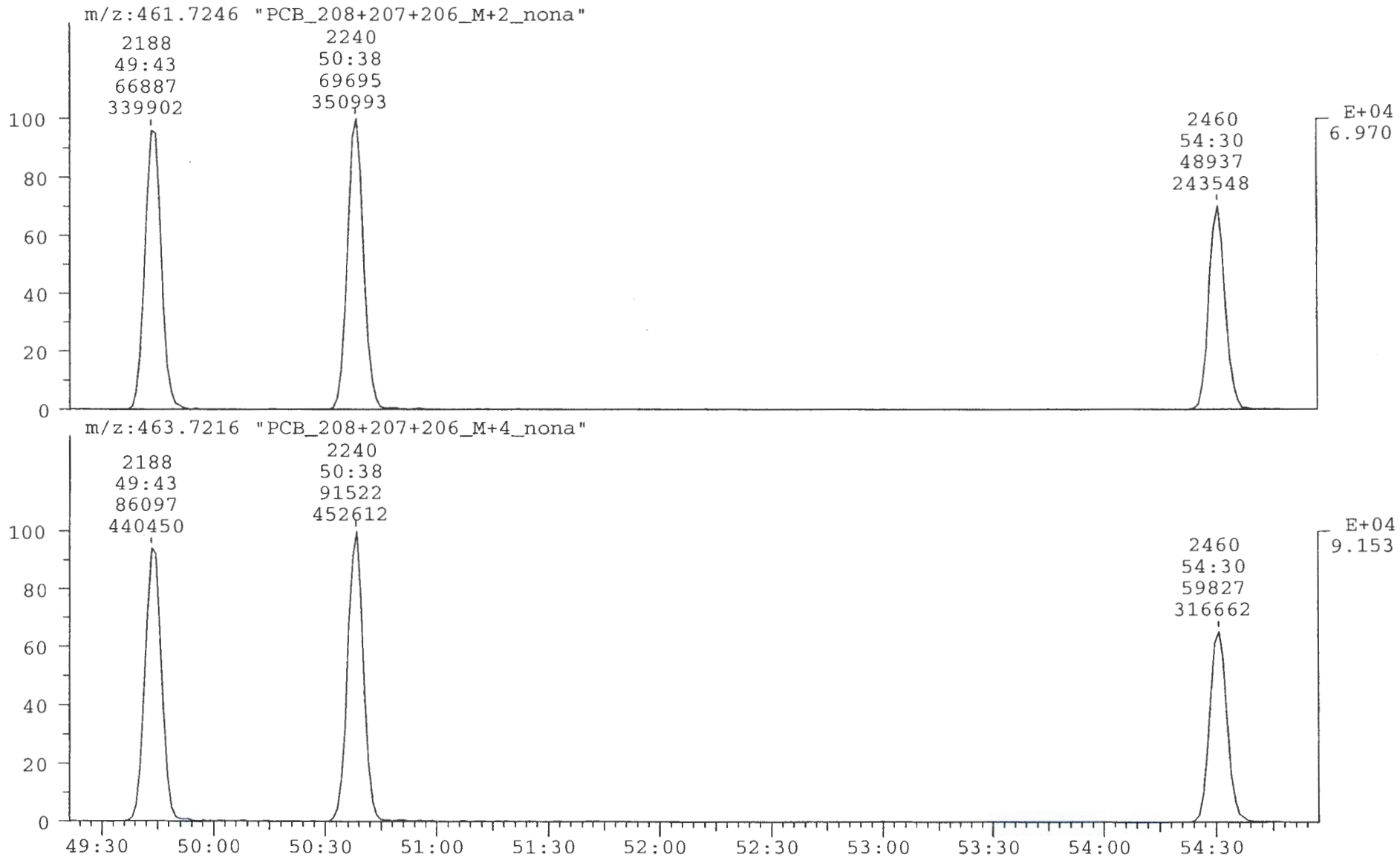
```
CHRO:  a071012s1                                12-Oct-07  Elapse:  52:13      2330
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2173 > 2488          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



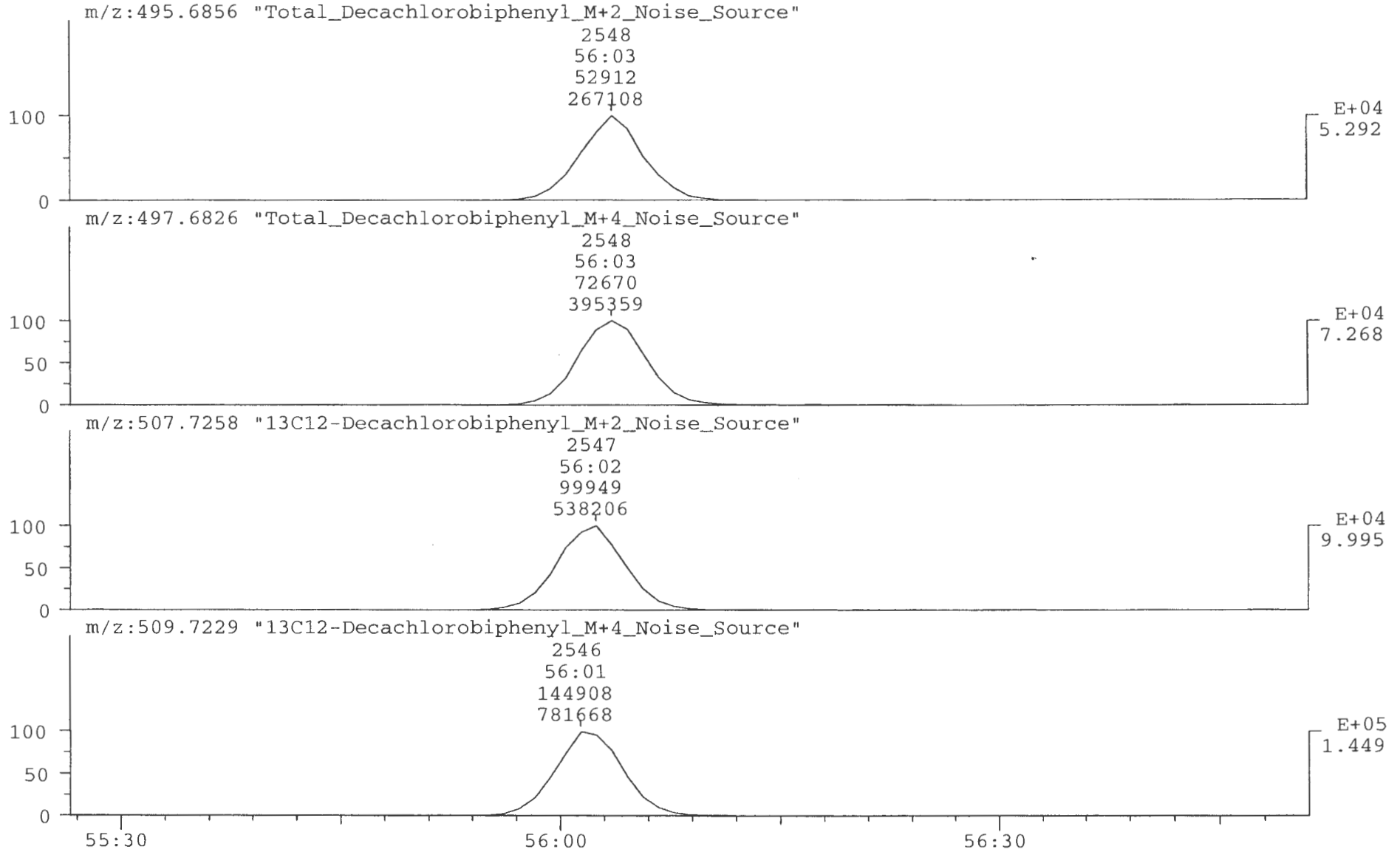
```
CHRO:  a071012s1                              12-Oct-07   Elapse:  52:12      2329
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2164 > 2494         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



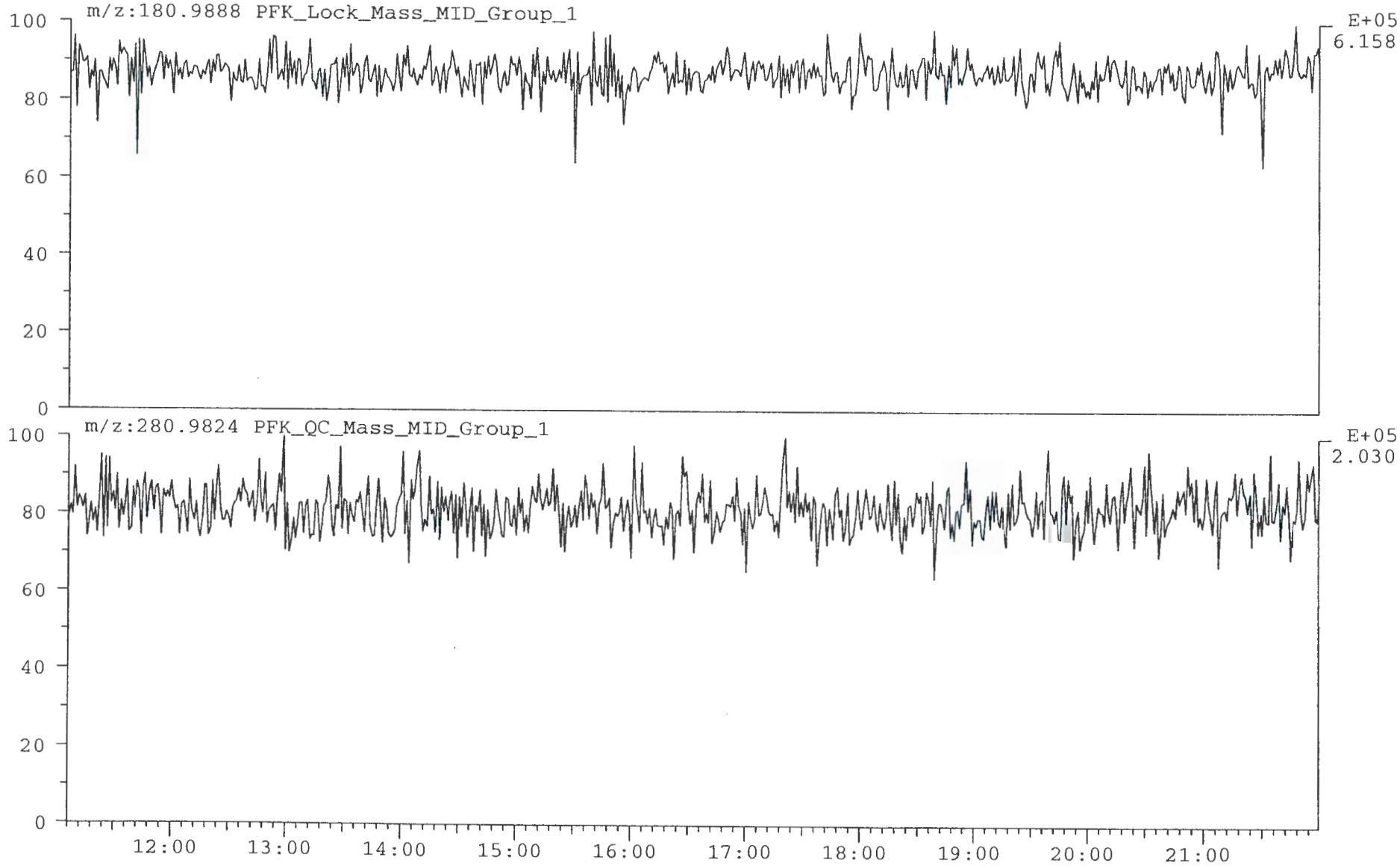
```
CHRO:  a071012s1                                12-Oct-07  Elapse:  52:13      2330
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2167 > 2485          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



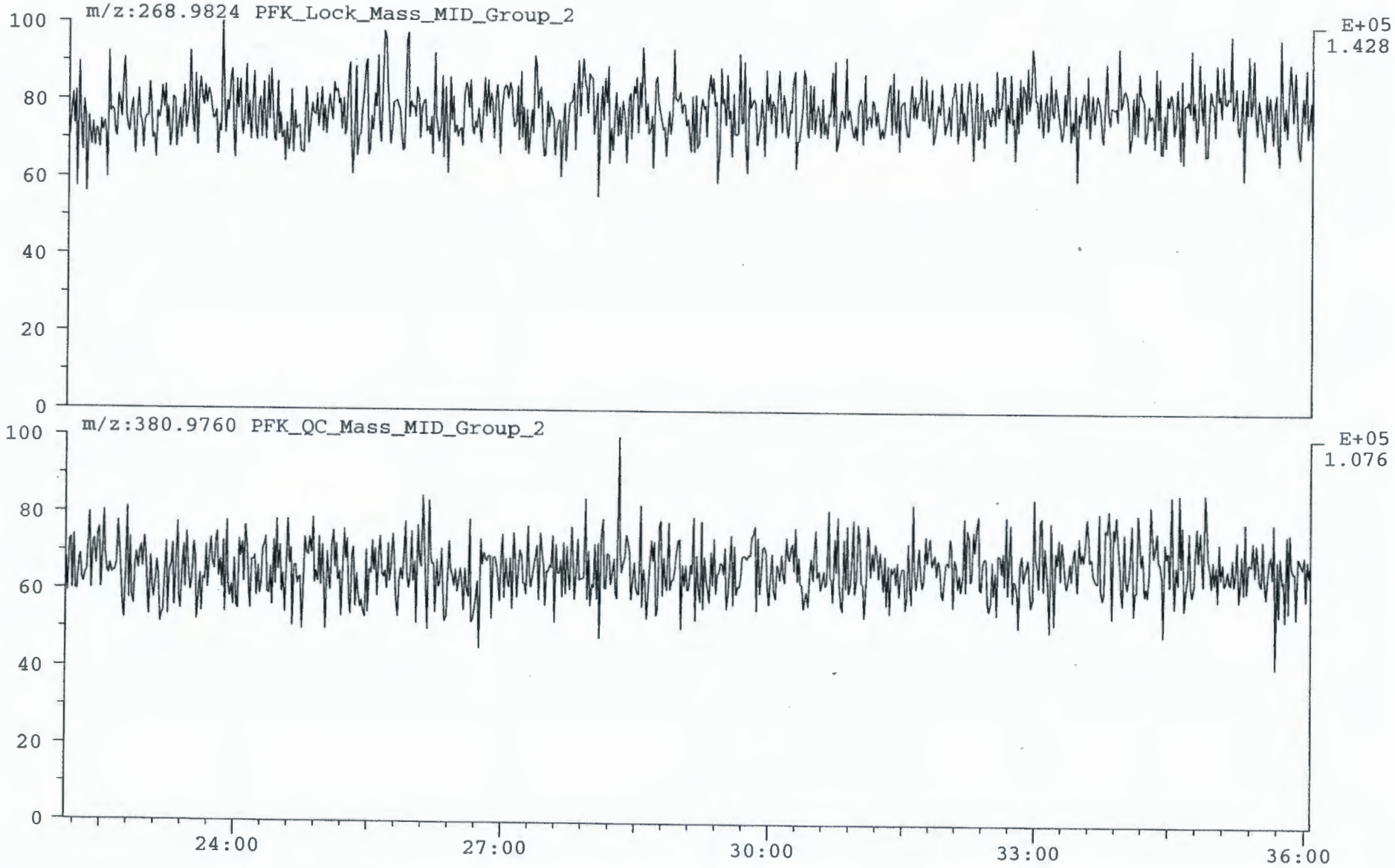
```
CHRO:  a071012s1                              12-Oct-07   Elapse:  56:11      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   2513 > 2593         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a071012s1 12-Oct-07 Elapse: 56:11 2556
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 6 > 624 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

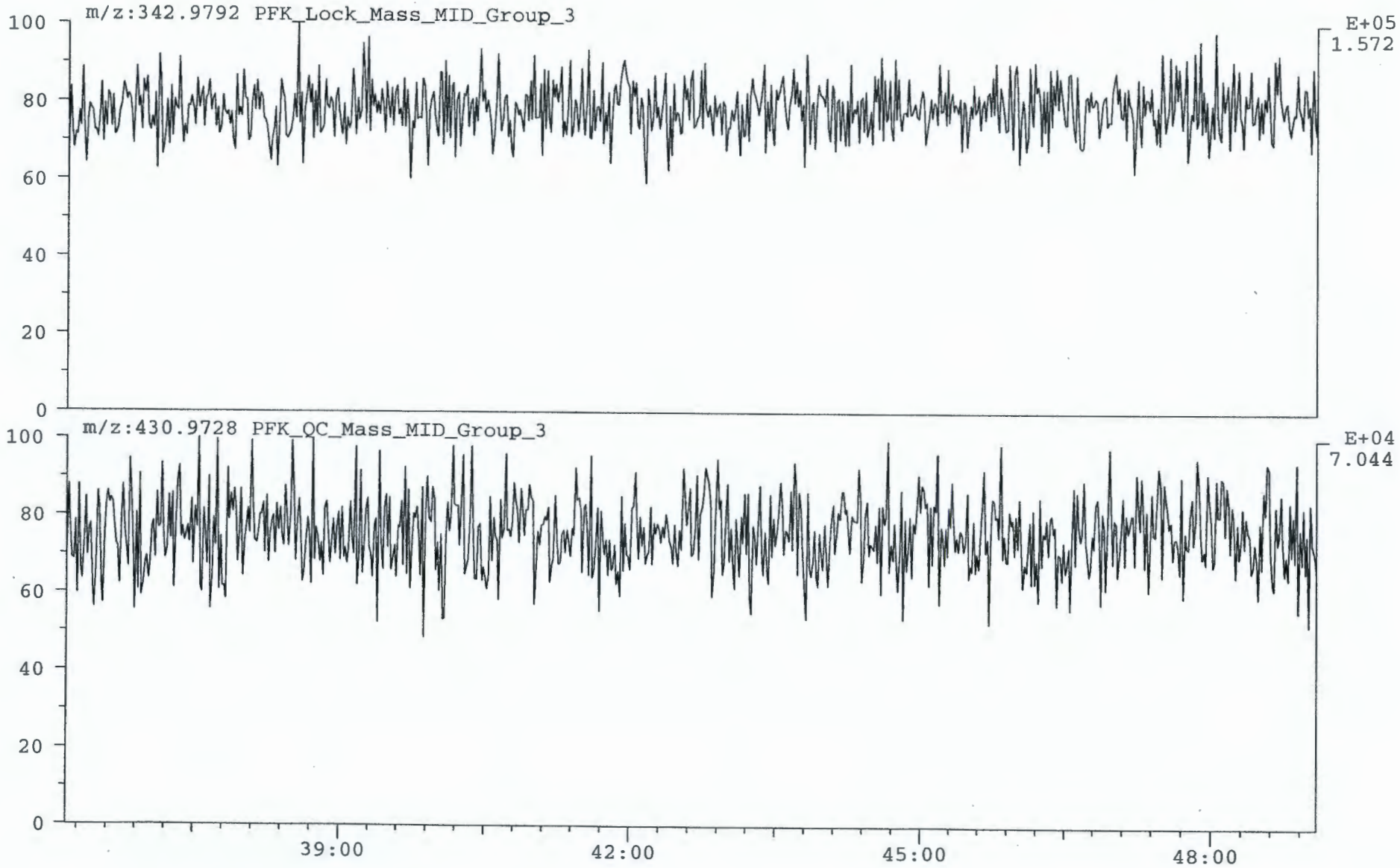


CHRO: a071012s1 12-Oct-07 Elapse: 56:11 2556
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 627 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

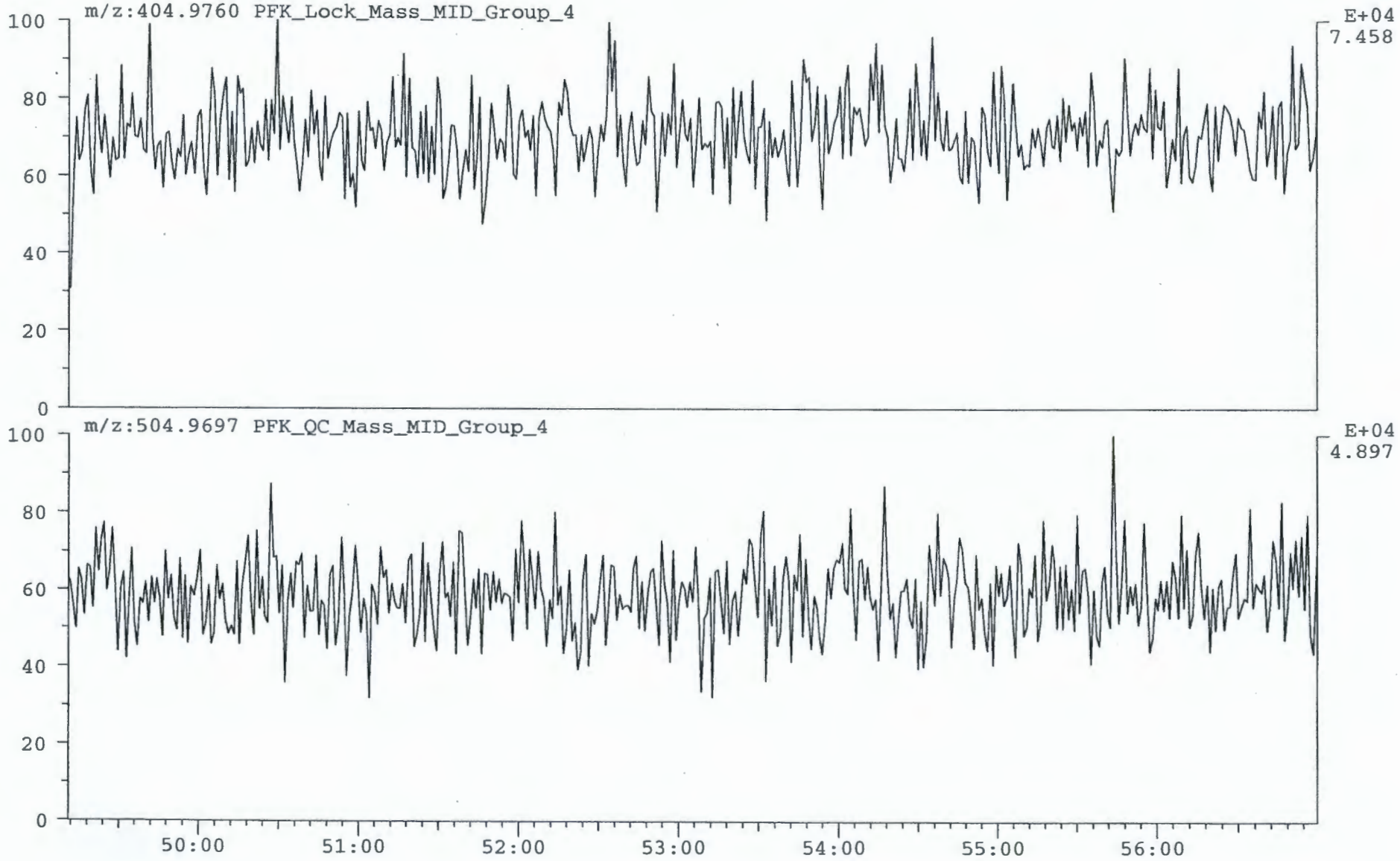


2770

```
CHRO:  a071012s1                                12-Oct-07   Elapse:  56:11      2556
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:04:47   2603
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1423 > 2155           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```



CHRO: a071012s1 12-Oct-07 Elapse: 56:11 2556
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:04:47 2603
Comm: Inst=mld/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2158 > 2601 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



2772

Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a071012s1
Study: 1668 Ver
Sample: WO=2990:71 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: TA Knoxville
Comments: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Injected volume: 2.00
Sample from Vial 1
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 1 of list 071011
ICL procedure: sleep7x
MID procedure: epa1668

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:00 min	14:05 min	36:05 min	1.00 sec
# 3	36:05 min	13:00 min	49:05 min	1.00 sec
# 4	49:05 min	7:55 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	l	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass F	int	gr	time (ms)
255.9613	1	1	47.79
257.9584	1	1	47.79
268.0016	1	1	47.79
268.9824 l	10	1	4.10
269.9986	1	1	47.79
289.9224	1	1	47.79
291.9194	1	1	47.79
301.9626	1	1	47.79
303.9597	1	1	47.79
325.8804	1	1	47.79
327.8775	1	1	47.79
337.9207	1	1	47.79
339.9178	1	1	47.79
359.8415	1	1	47.79
361.8385	1	1	47.79
371.8817	1	1	47.79
373.8788	1	1	47.79
380.9760 c	10	1	4.10

Window # 3

mass F	int	gr	time (ms)
325.8804	1	1	47.79
327.8775	1	1	47.79
337.9207	1	1	47.79
339.9178	1	1	47.79
342.9792 l	10	1	4.10
359.8415	1	1	47.79
361.8385	1	1	47.79
371.8817	1	1	47.79
373.8788	1	1	47.79
393.8025	1	1	47.79
395.7995	1	1	47.79
405.8428	1	1	47.79
407.8398	1	1	47.79
427.7635	1	1	47.79
429.7606	1	1	47.79
430.9728 c	10	1	4.10
439.8038	1	1	47.79
441.8008	1	1	47.79

Window # 4

mass F	int	gr	time (ms)
393.8025	1	1	47.79
395.7995	1	1	47.79
404.9760 l	10	1	4.10
405.8428	1	1	47.79
407.8398	1	1	47.79
427.7635	1	1	47.79
429.7606	1	1	47.79
439.8038	1	1	47.79
441.8008	1	1	47.79
461.7246	1	1	47.79
463.7216	1	1	47.79
473.7648	1	1	47.79
475.7619	1	1	47.79
495.6856	1	1	47.79
497.6826	1	1	47.79
504.9697 c	10	1	4.10
507.7258	1	1	47.79
509.7229	1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
Purge time 1.5 min
Purge flow 40.0 ml/min
Gas saver is on
Saver time 3.0 min
Saver flow 15.0 ml/min
Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1034.0919
BMASS	180.9888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.8824
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-58.0000
DRAWC	1.0000	DRAWS	-0.0050	ECORR	0.9984
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0001
EDACR	23.0000	EDACZ	-474.0000	ELEN	70.7500
EMULT	1.8800	ENS	215.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	145.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	313.0000
FVINLET	290.0000	FVSRC	963.0000	FWIN	0.7000
GCTC	75.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	1.4706	HVANAL	1304.0000
HVSRC	2701.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4793.6460	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1637.0000	LENSS	83.6000
LKM	180.9888	LM	800.0000	LMASS	180.9888
LMII	500.0000	MASS	180.9888	MDAC	2349141.2750

MDACR	23.0000	MRANGE	1034.0919	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	95979.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-31.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10099.9637	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2312.0000
SHIELDS	0.4000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.3300	TCURR	0.8984
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	1.6400	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.9888	XLENS	2500.0000
XLENSS	25.0000	YLENS	2047.0000	YLENSS	-70.4000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 12-Oct-07 11:04:47.7

Autosampler has injected sample from vial 1
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 10347
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 10124
Analysis stopped at: 12-Oct-07 12:01:51.1 (run time 57.04 minutes)
Analysis stopped because MID run finished

TA Knoxville Specialty Organics Group GC/MS Continuing Calibration Data Review Checklist
Method or SOP Number: KNOX-ID-0013 Revision 5

Start PFK:	11:45	End PFK:	20:57	CS3 Filename:	907101551	Inst:	MAT95	ICAL Date:	3-13-07

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Was the mass resolution documented at both the beginning and end of the 12 hour shift?		✓			✓
2. Was the instrument resolution ≥8,000 throughout and ≥ 10,000 in the center of each m/z range. PFK m/z 192.9888, *230.9856, and *280.9824? PFK m/z 268.9824, *292.9824, and *380.9760? PFK m/z 342.9792, *380.9760, and *430.9728? PFK m/z 404.9760, *442.9728, and *530.9665?		✓			✓
3. Were the measured exact masses listed above within 5 ppm at reduced accelerating voltage?		✓			✓
4. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
5. Were the MID switchpoints set to encompass the retention time windows of each congener group?		✓			✓
6. Was the valley height less than 40% of the height of the shorter of the two peaks for the pair PCB 23 and PCB 34, and the pair PCB 182 and PCB 187		✓			✓
7. Was the continuing calibration performed at the beginning of the 12 hour period after successful mass resolution and GC resolution performance check?		✓			✓
8. Were the %D for all toxic analytes within ± 30% (PCB 81, 77, 123, 118, 114, 105, 126, 167, 156, 157, 169, 189) Were the %D for all LOC analytes within ± 30% (PCB 1, 3, 4, 15, 19, 37, 54, 104, 155, 188, 202, 205, 206, 208, 209).		✓			✓
9. Were the %D for all non-toxic/non-LOC analytes within ± 30%?		✓			✓
10. If the %D for any non-toxic/non-LOC was not within ± 30, were response factors calculated from the continuing calibration for all non-toxic/non-LOC analytes with a %D greater than ± 30% but within ± 60%.	✓				✓
11. Were the response factors calculated for each labeled standard and unlabeled native analyte using the SOP specified reference compound, quantitation ions, and formula.		✓			✓
12. Were the absolute retention times of all labeled internal standards within ± 15 seconds of the retention times obtained during initial calibration?		✓			✓
13. Are %D within ± 50% for all labeled internal standards in the calibration?		✓			✓
14. Are the %D within ± 30% for all labeled surrogate standards in the calibration.		✓			✓
15. Are the %D within -40/+30% for all labeled cleanup standards in the calibration?		✓			✓
16. Are all S/N ratios ≥10 for the GC signals in each EICP (extracted ion chromatographic profile) including internal standards?		✓			✓
17. Are RRTs of all unlabled toxic/LOC analytes within their respective RRT limits?		✓			✓
18. If PCB 156 and 157 were classified as uniquely resolved in the most recent initial calibration, was the valley between the two less than or equal to the 50% of the height of the shorter of the two peaks?	✓				✓
19. Are the ion abundance ratios for all labeled and unlabeled analytes within the specified control limits?		✓			✓
20. If manual integrations were performed, are they clearly identified, initialed and dated?		✓			✓
21. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				✓
22. Does the CCAL folder contain **complete** data in the following order? Data review checklist, a **complete** runlog, CCAL summary, Ratio summary, Calculation summary, PFK resolution/peak match documentation (HRMS only), and Total RIC, EICP's and manual integration - for window and both standards.		✓			✓

Analyst: DCG	Date: 10-15-07	2nd Level Reviewer : PMP	Date: 10-15-07
Comments:		Comments:	

*At reduced accelerating voltage

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT MAT 95 RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
10-13-07	07:08	DCS	PFK	—	ok	-	Res		MASRES CHK
10-13-07	07:26	DCS	2990:71	9071013J1	IF	-	ver		1668VER
10-13-07	08:26	DCS	none	spJr	IF	-	QC		Flush
10-13-07	08:43	DCS	J8ALAIAA	apJ8ALAb2	IF	Biol	QC		SystemBlank
10-13-07	09:44	DCS	J7V90 1AA	apJ7V90	IF	Biol	SAM		H7I280209-005
10-13-07	10:46	DCS	J7V91 1AA	apJ7V91	IF	Biol	SAM		↓ -006
10-13-07	—	DCS	J7V93 1AA	apJ7V93	DR	Biol	SAM		↓ -007
10-15-07	11:45	DCS	PFK	—	ok	-	Res		MASRES CHK
10-15-07	11:53	DCS	2990:71	9071015J1	ok	-	ver		1668VER
10-15-07	12:53	DCS	none	spJr	ok	-	QC		Flush
10-15-07	13:07	DCS	〃	spJr	ok	-	QC		Flush
10-15-07	13:23	DCS	J8ALAIAA	apJ8ALAb2	ok	bio	QC		SystemBlank
10-15-07	14:24	DCS	J7V90 1AA	apJ7V90	ok	biol	SAM		H7I280209-005
10-15-07	15:26	DCS	J7V91 1AA	apJ7V91	ok	biol	SAM		↓ -006
10-15-07	—	DCS	J7V93 1AA	apJ7V93	IF	biol	SAM		↓ -007
10-15-07	17:02	DCS	none	spJr	ok	-	QC		Flush
10-15-07	—	DCS	〃	〃	DR	-	QC		〃
10-15-07	17:20	DCS	J7V93 1AA	apJ7V93	ok	biol	SAM		H7I280209-007
10-15-07	18:21	DCS	none	spJr	ok	-	QC		Flush
10-15-07	18:35	DCS	〃	〃	ok	-	QC		〃
10-15-07	18:51	DCS	J7INR1AA	apJ7INRb	ok	Hw	QC		H75010000-372B
10-15-07	19:58	DCS	J7DW1AA	apJ7DW1	ok	Hw	SAM		H7I210228-007
10-15-07	—	DCS	J7DW9 1AA	apJ7DW9	DR	Hw	SAM		↓ -002
10-15-07	20:57	DCS	PFK	—	ok	-	Res		MASRES CHK

Read and Understood by:

_____ Date: _____

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1 **ICAL Date:** 03/13/07

CCAL Filename: a071015s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071015s1/a071015s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/15/07 11:53 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
I	13C12-PCB 1			M/M+2	3.29	2.66-3.60	1.318	1.231	-6.6	100	93	50-150	True
I	13C12-PCB 3			M/M+2	3.33	2.66-3.60	1.325	1.146	-13.6	100	86	50-150	True
	PCB 1 (BZ)	L		M/M+2	3.09	2.66-3.60	1.253	1.057	-15.6	50	42	35-65	True
	PCB 2 (BZ)			M/M+2	3.12	2.66-3.60	1.226	0.924	-24.7	50	38	35-65	True
	PCB 3 (BZ)	L		M/M+2	3.11	2.66-3.60	1.348	1.030	-23.6	50	38	35-65	True
I	13C12-PCB 4			M/M+2	1.66	1.33-1.79	0.615	0.644	4.7	100	105	50-150	True
R	13C12-PCB 9			M/M+2	1.62	1.33-1.79	1.000	1.000	0.0	100	100	-	
S	13C12-PCB 8			M/M+2	1.66	1.33-1.79	1.332	1.270	-4.6	50	48	35-65	True
I	13C12-PCB 15			M/M+2	1.64	1.33-1.79	1.065	0.942	-11.5	100	88	50-150	True
	PCB 4 (BZ)	L		M/M+2	1.64	1.33-1.79	1.212	1.078	-11.0	50	44	35-65	True
	PCB 10 (BZ)			M/M+2	1.61	1.33-1.79	1.326	1.354	2.2	50	51	35-65	True
	PCB 9 (BZ)			M/M+2	1.64	1.33-1.79	1.445	1.391	-3.7	50	48	35-65	True
	PCB 7 (BZ)			M/M+2	1.61	1.33-1.79	1.432	1.387	-3.1	50	48	35-65	True
	PCB 6 (BZ)			M/M+2	1.62	1.33-1.79	1.450	1.353	-6.7	50	47	35-65	True
	PCB 5 (BZ)			M/M+2	1.71	1.33-1.79	1.356	1.188	-12.4	50	44	35-65	True
	PCB 8 (BZ)			M/M+2	1.54	1.33-1.79	1.477	1.420	-3.8	50	48	35-65	True
	PCB 14 (BZ)			M/M+2	1.61	1.33-1.79	1.687	1.559	-7.6	50	46	35-65	True
	PCB 11 (BZ)			M/M+2	1.64	1.33-1.79	1.448	1.248	-13.8	50	43	35-65	True
	PCB 13 (BZ)		C12	M/M+2	1.63	1.33-1.79	1.454	1.270	-12.7	100 a	87	70-130	True
	PCB 12 (BZ)		C12	M/M+2		1.33-1.79	1.454		0.0	100 a	87	70-130	C12
	PCB 15 (BZ)	L		M/M+2	1.64	1.33-1.79	1.233	1.092	-11.4	50	44	35-65	True
I	13C12-PCB 19			M/M+2	1.10	0.88-1.20	0.558	0.606	8.6	100	109	50-150	True
R	13C12-PCB 32			M/M+2	1.10	0.88-1.20	1.000	1.000	0.0	100	100	-	
R	13C12-PCB 31			M/M+2	1.04	0.88-1.20	1.000	1.000	0.0	100	100	-	
C	13C12-PCB 28			M/M+2	1.07	0.88-1.20	0.968	1.043	7.8	50	54	35-65 b	True
I	13C12-PCB 37			M/M+2	1.07	0.88-1.20	0.885	0.852	-3.8	100	96	50-150	True
	PCB 19 (BZ)	L		M/M+2	1.09	0.88-1.20	1.178	1.194	1.4	50	51	35-65	True
	PCB 30 (BZ)			M/M+2	1.05	0.88-1.20	1.874	1.754	-6.4	50	47	35-65	True
	PCB 18 (BZ)			M/M+2	1.03	0.88-1.20	1.262	1.209	-4.2	50	48	35-65	True
	PCB 17 (BZ)			M/M+2	1.05	0.88-1.20	1.326	1.259	-5.0	50	47	35-65	True
	PCB 27 (BZ)			M/M+2	1.08	0.88-1.20	1.945	1.757	-9.7	50	45	35-65	True
	PCB 24 (BZ)			M/M+2	1.09	0.88-1.20	1.782	1.686	-5.4	50	47	35-65	True
	PCB 16 (BZ)			M/M+2	1.01	0.88-1.20	1.157	1.100	-5.0	50	48	35-65	True
	PCB 32 (BZ)			M/M+2	1.08	0.88-1.20	1.966	1.912	-2.8	50	49	35-65	True
	PCB 34 (BZ)			M/M+2	0.97	0.88-1.20	1.216	1.059	-12.9	50	44	35-65	True
	PCB 23 (BZ)			M/M+2	0.89	0.88-1.20	1.208	1.108	-8.3	50	46	35-65	True
	PCB 29 (BZ)		C26	M/M+2	0.94	0.88-1.20	1.265	1.112	-12.1	100 a	88	70-130	True
	PCB 26 (BZ)		C26	M/M+2		0.88-1.20	1.265		0.0	100 a	88	70-130	C26
	PCB 25 (BZ)			M/M+2	0.92	0.88-1.20	1.362	1.201	-11.8	50	44	35-65	True
	PCB 31 (BZ)			M/M+2	0.95	0.88-1.20	1.285	1.106	-14.0	50	43	35-65	True
	PCB 28 (BZ)		C20	M/M+2	0.91	0.88-1.20	1.238	1.051	-15.2	100 a	85	70-130	True
	PCB 20 (BZ)		C20	M/M+2		0.88-1.20	1.238		0.0	100 a	85	70-130	C20
	PCB 21 (BZ)		C21	M/M+2	0.90	0.88-1.20	1.276	1.168	-8.4	100 a	92	70-130	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

DC 10-15-07
PMP 10-15-07

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1
ICAL Date: 03/13/07
CCAL Filename: a071015s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071015s1/a071015s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/15/07 11:53
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 33 (BZ)		C21	M/M+2		0.88-1.20	1.276		0.0	100	a	92	70-130	C21
	PCB 22 (BZ)			M/M+2	0.90	0.88-1.20	1.218	0.993	-18.5	50		41	35-65	True
	PCB 36 (BZ)			M/M+2	0.93	0.88-1.20	1.286	1.012	-21.3	50		39	35-65	True
	PCB 39 (BZ)			M/M+2	0.89	0.88-1.20	1.330	1.071	-19.5	50		40	35-65	True
	PCB 38 (BZ)			M/M+2	0.92	0.88-1.20	1.246	1.000	-19.8	50		40	35-65	True
	PCB 35 (BZ)			M/M+2	0.94	0.88-1.20	1.195	0.918	-23.2	50		38	35-65	True
	PCB 37 (BZ)	L		M/M+2	0.92	0.88-1.20	1.224	0.974	-20.4	50		40	35-65	True
I	13C12-PCB 54			M/M+2	0.80	0.65-0.89	0.598	0.600	0.3	100		100	50-150	True
R	13C12-PCB 52			M/M+2	0.77	0.65-0.89	1.000	1.000	0.0	100		100	-	
S	13C12-PCB 79			M/M+2	0.81	0.65-0.89	1.089	1.074	-1.3	50		49	35-65	True
I	13C12-PCB 81			M/M+2	0.78	0.65-0.89	1.286	1.269	-1.4	100		99	50-150	True
I	13C12-PCB 77			M/M+2	0.80	0.65-0.89	1.297	1.286	-0.9	100		99	50-150	True
	PCB 54 (BZ)	L		M/M+2	0.79	0.65-0.89	1.211	1.224	1.1	50		51	35-65	True
	PCB 50 (BZ)		C50	M/M+2	0.80	0.65-0.89	0.927	0.917	-1.1	100	a	99	70-130	True
	PCB 53 (BZ)		C50	M/M+2		0.65-0.89	0.927		0.0	100	a	99	70-130	C50
	PCB 45 (BZ)		C45	M/M+2	0.80	0.65-0.89	0.857	0.870	1.5	100	a	101	70-130	True
	PCB 51 (BZ)		C45	M/M+2		0.65-0.89	0.857		0.0	100	a	101	70-130	C45
	PCB 46 (BZ)			M/M+2	0.78	0.65-0.89	0.706	0.717	1.5	50		51	35-65	True
	PCB 52 (BZ)			M/M+2	0.79	0.65-0.89	0.926	0.851	-8.1	50		46	35-65	True
	PCB 73 (BZ)		C43	M/M+2	0.74	0.65-0.89	0.957	0.925	-3.4	100	a	97	70-130	True
	PCB 43 (BZ)		C43	M/M+2		0.65-0.89	0.957		0.0	100	a	97	70-130	C43
	PCB 69 (BZ)			M/M+2	0.82	0.65-0.89	1.180	1.106	-6.3	50		47	35-65	True
	PCB 49 (BZ)			M/M+2	0.77	0.65-0.89	1.005	0.975	-3.0	50		49	35-65	True
	PCB 48 (BZ)			M/M+2	0.77	0.65-0.89	0.886	0.812	-8.4	50		46	35-65	True
	PCB 65 (BZ)		C44	M/M+2	0.78	0.65-0.89	1.024	0.962	-6.0	150	a	141	105-195	True
	PCB 47 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	141	105-195	C44
	PCB 44 (BZ)		C44	M/M+2		0.65-0.89	1.024		0.0	150	a	141	105-195	C44
	PCB 62 (BZ)		C59	M/M+2	0.77	0.65-0.89	1.297	1.239	-4.4	150	a	143	105-195	True
	PCB 75 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	143	105-195	C59
	PCB 59 (BZ)		C59	M/M+2		0.65-0.89	1.297		0.0	150	a	143	105-195	C59
	PCB 42 (BZ)			M/M+2	0.80	0.65-0.89	0.860	0.898	4.4	50		52	35-65	True
	PCB 41 (BZ)			M/M+2	0.83	0.65-0.89	0.723	0.676	-6.5	50		47	35-65	True
	PCB 71 (BZ)		C40	M/M+2	0.79	0.65-0.89	0.953	0.956	0.3	100	a	100	70-130	True
	PCB 40 (BZ)		C40	M/M+2		0.65-0.89	0.953		0.0	100	a	100	70-130	C40
	PCB 64 (BZ)			M/M+2	0.80	0.65-0.89	1.313	1.322	0.7	50		50	35-65	True
	PCB 72 (BZ)			M/M+2	0.80	0.65-0.89	1.257	1.211	-3.7	50		48	35-65	True
	PCB 68 (BZ)			M/M+2	0.81	0.65-0.89	1.327	1.233	-7.1	50		46	35-65	True
	PCB 57 (BZ)			M/M+2	0.79	0.65-0.89	1.194	1.149	-3.8	50		48	35-65	True
	PCB 58 (BZ)			M/M+2	0.78	0.65-0.89	1.260	1.162	-7.8	50		46	35-65	True
	PCB 67 (BZ)			M/M+2	0.78	0.65-0.89	1.286	1.216	-5.5	50		47	35-65	True
	PCB 63 (BZ)			M/M+2	0.78	0.65-0.89	1.339	1.191	-11.0	50		44	35-65	True
	PCB 61 (BZ)			M/M+2	0.75	0.65-0.89	1.190	1.023	-14.0	50		43	35-65	True
	PCB 70 (BZ)		C70	M/M+2	0.79	0.65-0.89	1.317	1.238	-6.0	150	a	141	105-195	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1 **ICAL Date:** 03/13/07

CCAL Filename: a071015s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071015s1/a071015s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/15/07 11:53 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 76 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150	a	141	105-195	C70
	PCB 74 (BZ)		C70	M/M+2		0.65-0.89	1.317		0.0	150	a	141	105-195	C70
	PCB 66 (BZ)			M/M+2	0.75	0.65-0.89	1.289	1.125	-12.8	50		44	35-65	True
	PCB 55 (BZ)			M/M+2	0.76	0.65-0.89	1.161	1.056	-9.0	50		46	35-65	True
	PCB 56 (BZ)			M/M+2	0.79	0.65-0.89	1.231	1.129	-8.3	50		46	35-65	True
	PCB 60 (BZ)			M/M+2	0.77	0.65-0.89	1.191	1.180	-0.9	50		50	35-65	True
	PCB 80 (BZ)			M/M+2	0.79	0.65-0.89	1.416	1.423	0.5	50		50	35-65	True
	PCB 79 (BZ)			M/M+2	0.75	0.65-0.89	1.371	1.316	-4.0	50		48	35-65	True
	PCB 78 (BZ)			M/M+2	0.79	0.65-0.89	1.181	1.096	-7.3	50		46	35-65	True
	PCB 81 (BZ)	T		M/M+2	0.76	0.65-0.89	1.317	1.169	-11.2	50		44	35-65	True
	PCB 77 (BZ)	T		M/M+2	0.77	0.65-0.89	1.200	1.115	-7.1	50		46	35-65	True
I	13C12-PCB 104			M+2/M+4	1.60	1.32-1.78	1.260	1.302	3.3	100		103	50-150	True
S	13C12-PCB 95			M+2/M+4	1.63	1.32-1.78	0.741	0.693	-6.4	50		47	35-65	True
R	13C12-PCB 101			M+2/M+4	1.66	1.32-1.78	1.000	1.000	0.0	100		100	-	
C	13C12-PCB 111			M+2/M+4	1.64	1.32-1.78	1.229	1.314	6.9	50		53	35-65	b True
I	13C12-PCB 123			M+2/M+4	1.60	1.32-1.78	0.955	0.942	-1.3	100		99	50-150	True
I	13C12-PCB 118			M+2/M+4	1.60	1.32-1.78	0.988	1.039	5.2	100		105	50-150	True
I	13C12-PCB 114			M+2/M+4	1.54	1.32-1.78	0.971	0.947	-2.5	100		98	50-150	True
I	13C12-PCB 105			M+2/M+4	1.60	1.32-1.78	0.941	0.951	1.0	100		101	50-150	True
R	13C12-PCB 127			M+2/M+4	1.60	1.32-1.78	1.000	1.000	0.0	100		100	-	
I	13C12-PCB 126			M+2/M+4	1.60	1.32-1.78	0.978	0.993	1.5	100		102	50-150	True
	PCB 104 (BZ)	L		M+2/M+4	1.61	1.32-1.78	1.149	1.103	-4.0	50		48	35-65	True
	PCB 96 (BZ)			M+2/M+4	1.56	1.32-1.78	1.014	0.952	-6.1	50		47	35-65	True
	PCB 103 (BZ)			M+2/M+4	1.62	1.32-1.78	0.866	0.832	-4.0	50		48	35-65	True
	PCB 94 (BZ)			M+2/M+4	1.59	1.32-1.78	0.703	0.735	4.5	50		52	35-65	True
	PCB 95 (BZ)		C95	M+2/M+4	1.62	1.32-1.78	0.859	0.823	-4.2	100	a	96	70-130	True
	PCB 100 (BZ)		C95	M+2/M+4		1.32-1.78	0.859		0.0	100	a	96	70-130	C95
	PCB 93 (BZ)			M+2/M+4	1.60	1.32-1.78	0.701	0.682	-2.8	50		49	35-65	True
	PCB 102 (BZ)		C98	M+2/M+4	1.69	1.32-1.78	0.822	0.814	-1.0	100	a	99	70-130	True
	PCB 98 (BZ)		C98	M+2/M+4		1.32-1.78	0.822		0.0	100	a	99	70-130	C98
	PCB 88 (BZ)			M+2/M+4	1.56	1.32-1.78	0.723	0.673	-6.9	50		47	35-65	True
	PCB 91 (BZ)			M+2/M+4	1.62	1.32-1.78	0.864	0.799	-7.5	50		46	35-65	True
	PCB 84 (BZ)			M+2/M+4	1.64	1.32-1.78	0.679	0.613	-9.7	50		45	35-65	True
	PCB 89 (BZ)			M+2/M+4	1.67	1.32-1.78	0.717	0.649	-9.5	50		45	35-65	True
	PCB 121 (BZ)			M+2/M+4	1.63	1.32-1.78	1.105	1.127	2.0	50		51	35-65	True
	PCB 92 (BZ)			M+2/M+4	1.59	1.32-1.78	0.772	0.784	1.5	50		51	35-65	True
	PCB 113 (BZ)		C90	M+2/M+4	1.62	1.32-1.78	0.990	0.946	-4.4	150	a	143	105-195	True
	PCB 90 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150	a	143	105-195	C90
	PCB 101 (BZ)		C90	M+2/M+4		1.32-1.78	0.990		0.0	150	a	143	105-195	C90
	PCB 83 (BZ)		C83	M+2/M+4	1.68	1.32-1.78	0.777	0.770	-0.9	100	a	99	70-130	True
	PCB 99 (BZ)		C83	M+2/M+4		1.32-1.78	0.777		0.0	100	a	99	70-130	C83
	PCB 112 (BZ)			M+2/M+4	1.57	1.32-1.78	1.079	1.072	-0.6	50		50	35-65	True
	PCB 109 (BZ)/108 (IUPAC)		C86	M+2/M+4	1.63	1.32-1.78	0.967	0.965	-0.2	300	a	299	210-390	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1
ICAL Date: 03/13/07
CCAL Filename: a071015s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071015s1/a071015s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/15/07 11:53
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 86 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	299	210-390	C86
	PCB 119 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	299	210-390	C86
	PCB 97 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	299	210-390	C86
	PCB 125 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	299	210-390	C86
	PCB 87 (BZ)		C86	M+2/M+4		1.32-1.78	0.967		0.0	300	a	299	210-390	C86
	PCB 117 (BZ)		C85	M+2/M+4	1.58	1.32-1.78	0.979	0.938	-4.2	150	a	144	105-195	True
	PCB 116 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150	a	144	105-195	C85
	PCB 85 (BZ)		C85	M+2/M+4		1.32-1.78	0.979		0.0	150	a	144	105-195	C85
	PCB 110 (BZ)		C110	M+2/M+4	1.60	1.32-1.78	1.139	1.130	-0.8	100	a	99	70-130	True
	PCB 115 (BZ)		C110	M+2/M+4		1.32-1.78	1.139		0.0	100	a	99	70-130	C110
	PCB 82 (BZ)			M+2/M+4	1.56	1.32-1.78	0.605	0.600	-0.8	50		50	35-65	True
	PCB 111 (BZ)			M+2/M+4	1.62	1.32-1.78	1.129	1.106	-2.0	50		49	35-65	True
	PCB 120 (BZ)			M+2/M+4	1.57	1.32-1.78	1.192	1.129	-5.3	50		47	35-65	True
	PCB 124 (BZ)		C108	M+2/M+4		1.32-1.78	1.123		0.0	100	a	84	70-130	C108
	PCB 108 (BZ)/107 (IUPAC)		C108	M+2/M+4	1.47	1.32-1.78	1.123	0.947	-15.7	100	a	84	70-130	True
	PCB 107 (BZ)/109 (IUPAC)			M+2/M+4	1.47	1.32-1.78	1.074	0.944	-12.1	50		44	35-65	True
	PCB 123 (BZ)	T		M+2/M+4	1.46	1.32-1.78	1.136	1.014	-10.8	50		45	35-65	True
	PCB 106 (BZ)			M+2/M+4	1.51	1.32-1.78	1.046	0.945	-9.7	50		45	35-65	True
	PCB 118 (BZ)	T		M+2/M+4	1.49	1.32-1.78	1.094	0.940	-14.1	50		43	35-65	True
	PCB 122 (BZ)			M+2/M+4	1.58	1.32-1.78	1.047	0.815	-22.2	50		39	35-65	True
	PCB 114 (BZ)	T		M+2/M+4	1.38	1.32-1.78	1.196	1.090	-8.9	50		46	35-65	True
	PCB 105 (BZ)	T		M+2/M+4	1.49	1.32-1.78	1.218	1.013	-16.9	50		42	35-65	True
	PCB 127 (BZ)			M+2/M+4	1.47	1.32-1.78	1.130	0.983	-13.1	50		43	35-65	True
	PCB 126 (BZ)	T		M+2/M+4	1.52	1.32-1.78	1.111	0.942	-15.2	50		42	35-65	True
I	13C12-PCB 155			M+2/M+4	1.31	1.05-1.43	1.178	1.272	8.0	100		108	50-150	True
S	13C12-PCB 153			M+2/M+4	1.29	1.05-1.43	0.833	0.783	-6.0	50		47	35-65	True
R	13C12-PCB 138			M+2/M+4	1.29	1.05-1.43	1.000	1.000	0.0	100		100	-	
I	13C12-PCB 167			M+2/M+4	1.29	1.05-1.43	1.237	1.293	4.6	100		105	50-150	True
I	13C12-PCB 156			M+2/M+4	1.29	1.05-1.43	1.229	1.298	5.6	200		211	100-300	True
I	13C12-PCB 157			M+2/M+4		1.05-1.43	0.000		0.0	0		0	0-0	C156L
I	13C12-PCB 169			M+2/M+4	1.30	1.05-1.43	1.188	1.181	-0.5	100		99	50-150	True
	PCB 155 (BZ)	L		M+2/M+4	1.28	1.05-1.43	1.117	1.090	-2.4	50		49	35-65	True
	PCB 152 (BZ)			M+2/M+4	1.23	1.05-1.43	1.023	1.049	2.6	50		51	35-65	True
	PCB 150 (BZ)			M+2/M+4	1.25	1.05-1.43	1.032	0.961	-6.9	50		47	35-65	True
	PCB 136 (BZ)			M+2/M+4	1.29	1.05-1.43	0.967	0.968	0.2	50		50	35-65	True
	PCB 145 (BZ)			M+2/M+4	1.29	1.05-1.43	1.021	1.026	0.5	50		50	35-65	True
	PCB 148 (BZ)			M+2/M+4	1.25	1.05-1.43	0.749	0.731	-2.4	50		49	35-65	True
	PCB 151 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150	a	153	105-195	C135
	PCB 135 (BZ)		C135	M+2/M+4	1.26	1.05-1.43	0.781	0.797	2.1	150	a	153	105-195	True
	PCB 154 (BZ)		C135	M+2/M+4		1.05-1.43	0.781		0.0	150	a	153	105-195	C135
	PCB 144 (BZ)			M+2/M+4	1.26	1.05-1.43	0.759	0.742	-2.2	50		49	35-65	True
	PCB 147 (BZ)		C147	M+2/M+4	1.30	1.05-1.43	0.862	0.796	-7.7	100	a	92	70-130	True
	PCB 149 (BZ)		C147	M+2/M+4		1.05-1.43	0.862		0.0	100	a	92	70-130	C147

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1 **ICAL Date:** 03/13/07

CCAL Filename: a071015s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071015s1/a071015s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/15/07 11:53 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)	Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 134 (BZ)		C134	M+2/M+4		1.05-1.43	0.711		0.0	100 a	93	70-130	C134
	PCB 143 (BZ)		C134	M+2/M+4	1.33	1.05-1.43	0.711	0.660	-7.2	100 a	93	70-130	True
	PCB 139 (BZ)		C139	M+2/M+4	1.28	1.05-1.43	0.856	0.811	-5.2	100 a	95	70-130	True
	PCB 140 (BZ)		C139	M+2/M+4		1.05-1.43	0.856		0.0	100 a	95	70-130	C139
	PCB 131 (BZ)			M+2/M+4	1.36	1.05-1.43	0.713	0.664	-7.0	50	47	35-65	True
	PCB 142 (BZ)			M+2/M+4	1.35	1.05-1.43	0.735	0.680	-7.5	50	46	35-65	True
	PCB 132 (BZ)			M+2/M+4	1.28	1.05-1.43	0.710	0.674	-5.1	50	47	35-65	True
	PCB 133 (BZ)			M+2/M+4	1.23	1.05-1.43	0.768	0.709	-7.7	50	46	35-65	True
	PCB 165 (BZ)			M+2/M+4	1.29	1.05-1.43	0.993	0.954	-3.9	50	48	35-65	True
	PCB 146 (BZ)			M+2/M+4	1.30	1.05-1.43	0.874	0.795	-9.0	50	45	35-65	True
	PCB 161 (BZ)			M+2/M+4	1.30	1.05-1.43	1.090	1.084	-0.5	50	50	35-65	True
	PCB 153 (BZ)		C153	M+2/M+4	1.27	1.05-1.43	1.068	1.018	-4.7	100 a	95	70-130	True
	PCB 168 (BZ)		C153	M+2/M+4		1.05-1.43	1.068		0.0	100 a	95	70-130	C153
	PCB 141 (BZ)			M+2/M+4	1.24	1.05-1.43	0.756	0.773	2.3	50	51	35-65	True
	PCB 130 (BZ)			M+2/M+4	1.25	1.05-1.43	0.708	0.667	-5.8	50	47	35-65	True
	PCB 137 (BZ)			M+2/M+4	1.34	1.05-1.43	0.835	0.814	-2.6	50	49	35-65	True
	PCB 164 (BZ)			M+2/M+4	1.28	1.05-1.43	1.033	0.977	-5.4	50	47	35-65	True
	PCB 138 (BZ)		C129	M+2/M+4	1.28	1.05-1.43	0.922	0.878	-4.8	200 a	190	140-260	True
	PCB 163 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	190	140-260	C129
	PCB 129 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	190	140-260	C129
	PCB 160 (BZ)		C129	M+2/M+4		1.05-1.43	0.922		0.0	200 a	190	140-260	C129
	PCB 158 (BZ)			M+2/M+4	1.28	1.05-1.43	1.191	1.145	-3.9	50	48	35-65	True
	PCB 166 (BZ)			M+2/M+4	1.26	1.05-1.43	1.102	1.011	-8.3	50	46	35-65	True
	PCB 128 (BZ)			M+2/M+4	1.24	1.05-1.43	0.769	0.758	-1.4	50	49	35-65	True
	PCB 159 (BZ)			M+2/M+4	1.31	1.05-1.43	1.079	1.044	-3.3	50	48	35-65	True
	PCB 162 (BZ)			M+2/M+4	1.25	1.05-1.43	1.079	1.050	-2.7	50	49	35-65	True
	PCB 167 (BZ)	T		M+2/M+4	1.27	1.05-1.43	1.150	1.056	-8.2	50	46	35-65	True
	PCB 156 (BZ)	T	C156	M+2/M+4	1.27	1.05-1.43	1.151	1.018	-11.5	100 a	88	70-130	True
	PCB 157 (BZ)	T	C156	M+2/M+4		1.05-1.43	1.151		0.0	0 a	**88**	0-0	C156
	PCB 169 (BZ)	T		M+2/M+4	1.28	1.05-1.43	1.337	1.141	-14.7	50	43	35-65	True
I	13C12-PCB 188			M+2/M+4	1.04	0.89-1.21	1.238	1.254	1.3	100	101	50-150	True
C	13C12-PCB 178			M+2/M+4	1.01	0.89-1.21	0.863	0.819	-5.1	50	47	35-65 b	True
R	13C12-PCB 180			M+2/M+4	1.10	0.89-1.21	1.000	1.000	0.0	100	100	-	
I	13C12-PCB 170			M+2/M+4	1.03	0.89-1.21	0.813	0.825	1.5	100	101	50-150	True
I	13C12-PCB 189			M+2/M+4	1.04	0.89-1.21	1.620	1.595	-1.6	100	98	50-150	True
	PCB 188 (BZ)	L		M+2/M+4	1.06	0.89-1.21	1.071	1.006	-6.1	50	47	35-65	True
	PCB 179 (BZ)			M+2/M+4	1.06	0.89-1.21	1.200	1.159	-3.4	50	48	35-65	True
	PCB 184 (BZ)			M+2/M+4	1.10	0.89-1.21	1.178	1.123	-4.7	50	48	35-65	True
	PCB 176 (BZ)			M+2/M+4	1.06	0.89-1.21	1.252	1.191	-4.9	50	48	35-65	True
	PCB 186 (BZ)			M+2/M+4	1.05	0.89-1.21	1.214	1.159	-4.5	50	48	35-65	True
	PCB 178 (BZ)			M+2/M+4	1.05	0.89-1.21	0.889	0.824	-7.3	50	46	35-65	True
	PCB 175 (BZ)			M+2/M+4	1.04	0.89-1.21	0.920	0.876	-4.8	50	48	35-65	True
	PCB 187 (BZ)			M+2/M+4	1.03	0.89-1.21	1.009	0.975	-3.4	50	48	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1 **ICAL Date:** 03/13/07

CCAL Filename: a071015s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071015s1/a071015s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/15/07 11:53 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 202 False: 0

	Analytes	T/L	C	m/z's Forming Ratio	Ion Abund Ratio	QC Limits	ICAL RF	CCAL RF	%D	Std Conc (ng/mL)		Calc Conc (ng/mL)	QC Limit	Valid?
	PCB 182 (BZ)			M+2/M+4	1.02	0.89-1.21	0.972	0.975	0.3	50		50	35-65	True
	PCB 183 (BZ)			M+2/M+4	1.08	0.89-1.21	0.946	0.921	-2.7	50		49	35-65	True
	PCB 185 (BZ)			M+2/M+4	1.09	0.89-1.21	0.919	0.902	-1.9	50		49	35-65	True
	PCB 174 (BZ)			M+2/M+4	1.13	0.89-1.21	0.924	0.874	-5.4	50		47	35-65	True
	PCB 177 (BZ)			M+2/M+4	1.10	0.89-1.21	0.880	0.834	-5.1	50		47	35-65	True
	PCB 181 (BZ)			M+2/M+4	1.04	0.89-1.21	0.975	0.901	-7.5	50		46	35-65	True
	PCB 171 (BZ)		C171	M+2/M+4		0.89-1.21	0.835		0.0	100	a	97	70-130	C171
	PCB 173 (BZ)		C171	M+2/M+4	1.07	0.89-1.21	0.835	0.813	-2.6	100	a	97	70-130	True
	PCB 172 (BZ)			M+2/M+4	1.10	0.89-1.21	0.838	0.805	-3.9	50		48	35-65	True
	PCB 192 (BZ)			M+2/M+4	1.04	0.89-1.21	1.147	1.125	-2.0	50		49	35-65	True
	PCB 193 (BZ)		C180	M+2/M+4	1.03	0.89-1.21	1.134	1.085	-4.4	100	a	96	70-130	True
	PCB 180 (BZ)		C180	M+2/M+4		0.89-1.21	1.134		0.0	100	a	96	70-130	C180
	PCB 191 (BZ)			M+2/M+4	1.06	0.89-1.21	1.228	1.205	-1.8	50		49	35-65	True
	PCB 170 (BZ)			M+2/M+4	1.04	0.89-1.21	1.058	1.022	-3.4	50		48	35-65	True
	PCB 190 (BZ)			M+2/M+4	1.06	0.89-1.21	1.254	1.231	-1.8	50		49	35-65	True
	PCB 189 (BZ)	T		M+2/M+4	0.99	0.89-1.21	1.097	0.986	-10.1	50		45	35-65	True
I	13C12-PCB 202			M+2/M+4	0.93	0.76-1.02	0.994	1.073	8.0	100		108	50-150	True
R	13C12-PCB 194			M+2/M+4	0.92	0.76-1.02	1.000	1.000	0.0	100		100	-	
I	13C12-PCB 205			M+2/M+4	0.90	0.76-1.02	1.407	1.467	4.3	100		104	50-150	True
	PCB 202 (BZ)	L		M+2/M+4	0.90	0.76-1.02	0.993	0.930	-6.3	50		47	35-65	True
	PCB 200 (BZ)/201 (IUPAC)			M+2/M+4	0.89	0.76-1.02	1.087	1.060	-2.5	50		49	35-65	True
	PCB 204 (BZ)			M+2/M+4	0.85	0.76-1.02	1.033	0.960	-7.1	50		46	35-65	True
	PCB 197 (BZ)			M+2/M+4	0.87	0.76-1.02	1.061	1.055	-0.6	50		50	35-65	True
	PCB 199 (BZ)/200 (IUPAC)			M+2/M+4	0.90	0.76-1.02	1.031	1.024	-0.7	50		50	35-65	True
	PCB 198 (BZ)		C198	M+2/M+4	0.89	0.76-1.02	0.761	0.723	-5.0	100	a	95	70-130	True
	PCB 201 (BZ)/199 (IUPAC)		C198	M+2/M+4		0.76-1.02	0.761		0.0	100	a	95	70-130	C198
	PCB 196 (BZ)			M+2/M+4	0.87	0.76-1.02	0.752	0.713	-5.3	50		47	35-65	True
	PCB 203 (BZ)			M+2/M+4	0.87	0.76-1.02	0.856	0.822	-4.0	50		48	35-65	True
	PCB 195 (BZ)			M+2/M+4	0.88	0.76-1.02	0.723	0.707	-2.1	50		49	35-65	True
	PCB 194 (BZ)			M+2/M+4	0.91	0.76-1.02	0.795	0.757	-4.8	50		48	35-65	True
	PCB 205 (BZ)	L		M+2/M+4	0.90	0.76-1.02	0.984	0.914	-7.1	50		46	35-65	True
I	13C12-PCB 208			M+2/M+4	0.80	0.65-0.89	1.161	1.327	14.3	100		114	50-150	True
I	13C12-PCB 206			M+2/M+4	0.76	0.65-0.89	0.823	0.898	9.2	100		109	50-150	True
	PCB 208 (BZ)	L		M+2/M+4	0.78	0.65-0.89	1.026	0.957	-6.7	50		47	35-65	True
	PCB 207 (BZ)			M+2/M+4	0.77	0.65-0.89	1.264	1.176	-7.0	50		47	35-65	True
	PCB 206 (BZ)	L		M+2/M+4	0.77	0.65-0.89	1.097	1.018	-7.2	50		46	35-65	True
I	13C12-PCB 209			M+2/M+4	0.70	0.59-0.79	0.930	1.106	18.9	100		119	50-150	True
	PCB 209 (BZ)	L		M+2/M+4	0.67	0.59-0.79	1.006	0.997	-0.8	50		50	35-65	True

Notes:
a - Concentration value is the sum of all coeluting congeners concentrations.
b - Cleanup standard QC Limits are actually 60% to 130% of the standard concetration.

STL - Knoxville

IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1
ICAL Date: 03/13/07
CCAL Filename: a071015s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071015s1/a071015s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/15/07 11:53
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 192 False: 0 Warning: ~~19~~ 18 DCJ 10-17-07

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
I	13C12-PCB 1			12:12	12:20	8	15	0.7323	0.7341	0.7173-0.7473	True
I	13C12-PCB 3			14:25	14:34	9	15	0.8653	0.8671	0.8503-0.8803	True
	PCB 1 (BZ)	L		12:13	12:20	7		1.0015	1.0000	0.9946-1.0083	True
	PCB 2 (BZ)			14:16	14:23	7		0.9894	0.9874	0.9859-0.9928	True
	PCB 3 (BZ)	L		14:26	14:35	9		1.0009	1.0011	0.9975-1.0044	True
I	13C12-PCB 4			14:42	14:51	9	15	0.8827	0.8839	0.8677-0.8977	True
R	13C12-PCB 9			16:39	16:48	9		1.0000	1.0000	0.9875-1.0125	True
S	13C12-PCB 8			17:32	17:42	10		1.1927	1.1919	1.1893-1.1961	True
I	13C12-PCB 15			20:41	20:52	11	15	1.2412	1.2421	1.2312-1.2512	True
	PCB 4 (BZ)	L		14:43	14:52	9		1.0012	1.0011	0.9955-1.0069	True
	PCB 10 (BZ)			14:54	15:01	7		1.0129	1.0112	1.0095-1.0163	True
	PCB 9 (BZ)			16:41	16:49	8		1.1349	1.1324	1.1315-1.1383	True
	PCB 7 (BZ)			16:50	16:58	8		1.1451	1.1425	1.1417-1.1485	True
	PCB 6 (BZ)			17:07	17:16	9		1.1647	1.1627	1.1613-1.1681	True
	PCB 5 (BZ)			17:26	17:35	9		1.1859	1.1841	1.1825-1.1893	True
	PCB 8 (BZ)			17:34	17:43	9		1.1946	1.1930	1.1912-1.1980	True
	PCB 14 (BZ)			19:09	19:17	8		0.9264	0.9241	0.9239-0.9288	True
	PCB 11 (BZ)			20:04	20:13	9		0.9704	0.9688	0.9680-0.9728	True
	PCB 13 (BZ)		C12	20:20	20:33	13		0.9836	0.9848	0.9811-0.9860	True
	PCB 12 (BZ)		C12	20:23				0.9857		0.9833-0.9881	C12
	PCB 15 (BZ)	L		20:41	20:53	12		1.0007	1.0008	0.9967-1.0048	True
I	13C12-PCB 19			17:53	18:03	10	15	0.8458	0.8474	0.8340-0.8576	True
R	13C12-PCB 32			21:09	21:18	9		1.0000	1.0000	0.9976-1.0024	True
R	13C12-PCB 31			23:24	23:33	9		1.0000	1.0000	0.9979-1.0021	True
C	13C12-PCB 28			23:41	23:50	9		1.0123	1.0120	1.0052-1.0195	True
I	13C12-PCB 37			27:46	27:58	12	15	1.1869	1.1875	1.1762-1.1976	True
	PCB 19 (BZ)	L		17:55	18:04	9		1.0014	1.0009	0.9967-1.0060	True
	PCB 30 (BZ)			19:38	19:45	7		1.0982	**1.0942**	1.0955-1.1010	**Warning**
	PCB 18 (BZ)			19:45	19:55	10		1.1048	1.1034	1.1020-1.1076	True
	PCB 17 (BZ)			20:10	20:18	8		1.1271	1.1247	1.1243-1.1299	True
	PCB 27 (BZ)			20:25	20:34	9		1.1414	1.1394	1.1386-1.1442	True
	PCB 24 (BZ)			20:31	20:40	9		1.1473	1.1450	1.1445-1.1501	True
	PCB 16 (BZ)			20:41	20:51	10		1.1560	1.1551	1.1532-1.1588	True
	PCB 32 (BZ)			21:11	21:19	8		1.1839	**1.1810**	1.1812-1.1867	**Warning**
	PCB 34 (BZ)			22:24	22:31	7		1.2523	**1.2475**	1.2495-1.2550	**Warning**
	PCB 23 (BZ)			22:31	22:39	8		1.2591	**1.2548**	1.2563-1.2619	**Warning**
	PCB 29 (BZ)		C26	22:51	23:00	9		1.2771	1.2742	1.2724-1.2818	True
	PCB 26 (BZ)		C26	22:52				1.2790		1.2743-1.2836	C26
	PCB 25 (BZ)			23:05	23:14	9		0.8313	0.8308	0.8295-0.8331	True
	PCB 31 (BZ)			23:26	23:35	9		0.8437	0.8433	0.8419-0.8455	True
	PCB 28 (BZ)		C20	23:42	23:51	9		0.8537	0.8528	0.8507-0.8567	True
	PCB 20 (BZ)		C20	23:47				0.8565		0.8535-0.8595	C20
	PCB 21 (BZ)		C21	23:54	24:04	10		0.8607	0.8605	0.8577-0.8637	True
	PCB 33 (BZ)		C21	24:00				0.8643		0.8613-0.8673	C21
	PCB 22 (BZ)			24:24	24:34	10		0.8787	0.8784	0.8769-0.8805	True
	PCB 36 (BZ)			25:55	26:01	6		0.9329	**0.9303**	0.9311-0.9347	**Warning**
	PCB 39 (BZ)			26:16	26:26	10		0.9459	0.9452	0.9441-0.9477	True
	PCB 38 (BZ)			26:52	27:00	8		0.9672	0.9654	0.9654-0.9690	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1
ICAL Date: 03/13/07
CCAL Filename: a071015s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071015s1/a071015s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/15/07 11:53
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 192 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 35 (BZ)			27:23	27:33	10		0.9862	0.9851	0.9844-0.9880	True
	PCB 37 (BZ)	L		27:48	27:59	11		1.0006	1.0006	0.9988-1.0024	True
I	13C12-PCB 54			21:02	21:12	10	15	0.8233	0.8260	0.8168-0.8298	True
R	13C12-PCB 52			25:33	25:40	7		1.0000	1.0000	0.9918-1.0082	True
S	13C12-PCB 79			33:28	33:36	8		0.9699	0.9697	0.9685-0.9714	True
I	13C12-PCB 81			34:30	34:39	9	15	1.3506	1.3500	1.3440-1.3571	True
I	13C12-PCB 77			35:06	35:16	10	15	1.3737	1.3740	1.3672-1.3803	True
	PCB 54 (BZ)	L		21:03	21:14	11		1.0006	1.0016	0.9967-1.0046	True
	PCB 50 (BZ)		C50	23:10	23:17	7		1.1015	1.0983	1.0976-1.1055	True
	PCB 53 (BZ)		C50	23:11				1.1026		1.0986-1.1065	C50
	PCB 45 (BZ)		C45	23:53	24:03	10		1.1361	1.1344	1.1322-1.1401	True
	PCB 51 (BZ)		C45	23:56				1.1377		1.1337-1.1417	C45
	PCB 46 (BZ)			24:14	24:24	10		1.1520	1.1509	1.1496-1.1543	True
	PCB 52 (BZ)			25:34	25:42	8		1.2161	**1.2123**	1.2138-1.2185	**Warning**
	PCB 73 (BZ)		C43	25:41	25:49	8		1.2214	**1.2178**	1.2190-1.2238	**Warning**
	PCB 43 (BZ)		C43	25:47				1.2262		1.2238-1.2285	C43
	PCB 69 (BZ)			25:56	26:02	6		1.2330	**1.2280**	1.2291-1.2370	**Warning**
	PCB 49 (BZ)			26:03	26:10	7		1.2386	**1.2343**	1.2346-1.2425	**Warning**
	PCB 48 (BZ)			26:19	26:27	8		1.2515	**1.2476**	1.2491-1.2539	**Warning**
	PCB 65 (BZ)		C44	26:32	26:40	8		1.2616	1.2579	1.2576-1.2655	True
	PCB 47 (BZ)		C44	26:34				1.2634		1.2594-1.2674	C44
	PCB 44 (BZ)		C44	26:36				1.2647		1.2608-1.2687	C44
	PCB 62 (BZ)		C59	26:48	26:57	9		1.2745	1.2712	1.2705-1.2785	True
	PCB 75 (BZ)		C59	26:52				1.2779		1.2740-1.2819	C59
	PCB 59 (BZ)		C59	26:55				1.2795		1.2756-1.2835	C59
	PCB 42 (BZ)			27:07	27:15	8		1.2893	**1.2854**	1.2869-1.2917	**Warning**
	PCB 41 (BZ)			27:32	27:41	9		1.3088	1.3058	1.3049-1.3128	True
	PCB 71 (BZ)		C40	27:37	27:46	9		1.3133	1.3097	1.3094-1.3173	True
	PCB 40 (BZ)		C40	27:40				1.3157		1.3117-1.3197	C40
	PCB 64 (BZ)			27:49	27:59	10		1.3228	**1.3200**	1.3204-1.3252	**Warning**
	PCB 72 (BZ)			28:37	28:42	5		0.8292	0.8283	0.8278-0.8307	True
	PCB 68 (BZ)			28:52	28:59	7		0.8368	0.8365	0.8353-0.8382	True
	PCB 57 (BZ)			29:19	29:25	6		0.8500	0.8490	0.8485-0.8514	True
	PCB 58 (BZ)			29:35	29:43	8		0.8576	0.8576	0.8561-0.8590	True
	PCB 67 (BZ)			29:42	29:50	8		0.8611	0.8610	0.8597-0.8626	True
	PCB 63 (BZ)			30:00	30:06	6		0.8693	0.8687	0.8679-0.8708	True
	PCB 61 (BZ)			30:13	30:20	7		0.8758	0.8754	0.8729-0.8786	True
	PCB 70 (BZ)		C70	30:21	30:30	9		0.8795	0.8802	0.8766-0.8824	True
	PCB 76 (BZ)		C70	30:21				0.8798		0.8769-0.8827	C70
	PCB 74 (BZ)		C70	30:23				0.8807		0.8783-0.8832	C70
	PCB 66 (BZ)			30:41	30:49	8		0.8896	0.8894	0.8881-0.8910	True
	PCB 55 (BZ)			30:53	31:02	9		0.8951	0.8956	0.8936-0.8965	True
	PCB 56 (BZ)			31:24	31:33	9		0.9100	0.9105	0.9086-0.9115	True
	PCB 60 (BZ)			31:36	31:46	10		0.9160	0.9168	0.9146-0.9174	True
	PCB 80 (BZ)			31:52	31:58	6		0.9239	0.9226	0.9224-0.9253	True
	PCB 79 (BZ)			33:30	33:37	7		0.9709	0.9702	0.9694-0.9723	True
	PCB 78 (BZ)			34:05	34:12	7		0.9876	0.9870	0.9862-0.9891	True
	PCB 81 (BZ)	T		34:32	34:41	9		1.0008	1.0010	0.9994-1.0023	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1
ICAL Date: 03/13/07
CCAL Filename: a071015s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071015s1/a071015s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/15/07 11:53
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 192 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 77 (BZ)	T		35:07	35:17	10		1.0004	1.0005	0.9990-1.0018	True
I	13C12-PCB 104			26:28	26:35	7	15	0.8182	0.8192	0.8131-0.8234	True
S	13C12-PCB 95			29:30	29:38	8		1.1143	1.1147	1.1111-1.1174	True
R	13C12-PCB 101			32:21	32:27	6		1.0000	1.0000	0.9936-1.0064	True
C	13C12-PCB 111			34:59	35:04	5		1.0813	1.0806	1.0761-1.0864	True
I	13C12-PCB 123			37:01	37:07	6	15	1.1438	1.1438	1.1386-1.1489	True
I	13C12-PCB 118			37:20	37:26	6	15	1.1537	1.1536	1.1486-1.1589	True
I	13C12-PCB 114			37:52	37:59	7	15	1.1705	1.1705	1.1653-1.1756	True
I	13C12-PCB 105			38:35	38:43	8	15	1.1923	1.1931	1.1871-1.1974	True
R	13C12-PCB 127			39:58	40:02	4		1.0000	1.0000	0.9948-1.0052	True
I	13C12-PCB 126			41:38	41:46	8	15	1.2868	1.2871	1.2817-1.2920	True
	PCB 104 (BZ)	L		26:30	26:36	6		1.0007	1.0006	0.9975-1.0038	True
	PCB 96 (BZ)			26:59	27:08	9		1.0189	1.0207	1.0158-1.0221	True
	PCB 103 (BZ)			28:47	28:51	4		1.0869	1.0853	1.0850-1.0888	True
	PCB 94 (BZ)			29:03	29:10	7		1.0974	1.0972	1.0955-1.0993	True
	PCB 95 (BZ)		C95	29:33	29:40	7		1.1158	1.1160	1.1127-1.1190	True
	PCB 100 (BZ)		C95	29:37				1.1186		1.1154-1.1217	C95
	PCB 93 (BZ)			29:42	29:51	9		1.1221	1.1229	1.1190-1.1253	True
	PCB 102 (BZ)		C98	29:50	29:58	8		1.1268	1.1273	1.1236-1.1299	True
	PCB 98 (BZ)		C98	29:54				1.1295		1.1263-1.1326	C98
	PCB 88 (BZ)			30:15	30:21	6		1.1427	1.1417	1.1389-1.1465	True
	PCB 91 (BZ)			30:22	30:30	8		1.1471	1.1473	1.1440-1.1503	True
	PCB 84 (BZ)			30:39	30:48	9		1.1576	1.1586	1.1557-1.1595	True
	PCB 89 (BZ)			31:07	31:15	8		1.1756	1.1755	1.1737-1.1775	True
	PCB 121 (BZ)			31:21	31:25	4		1.1840	**1.1818**	1.1821-1.1859	**Warning**
	PCB 92 (BZ)			31:49	31:54	5		0.8598	0.8595	0.8584-0.8611	True
	PCB 113 (BZ)		C90	32:21	32:27	6		1.2218	1.2207	1.2186-1.2249	True
	PCB 90 (BZ)		C90	32:22				1.2224		1.2193-1.2256	C90
	PCB 101 (BZ)		C90	32:22				1.2226		1.2195-1.2258	C90
	PCB 83 (BZ)		C83	32:55	33:02	7		1.2432	1.2426	1.2394-1.2470	True
	PCB 99 (BZ)		C83	32:57				1.2444		1.2413-1.2476	C83
	PCB 112 (BZ)			33:05	33:11	6		1.2497	1.2483	1.2478-1.2516	True
	PCB 109 (BZ)/108 (IUPAC)		C86	33:25	33:31	6		1.2621	1.2608	1.2570-1.2671	True
	PCB 86 (BZ)		C86	33:29				1.2648		1.2598-1.2698	C86
	PCB 119 (BZ)		C86	33:27				1.2633		1.2583-1.2684	C86
	PCB 97 (BZ)		C86	33:30				1.2656		1.2606-1.2707	C86
	PCB 125 (BZ)		C86	33:36				1.2688		1.2637-1.2738	C86
	PCB 87 (BZ)		C86	33:39				1.2711		1.2679-1.2742	C86
	PCB 117 (BZ)		C85	34:06	34:12	6		1.2881	1.2865	1.2843-1.2919	True
	PCB 116 (BZ)		C85	34:10				1.2904		1.2866-1.2942	C85
	PCB 85 (BZ)		C85	34:15				1.2940		1.2908-1.2971	C85
	PCB 110 (BZ)		C110	34:25	34:32	7		1.3000	1.2991	1.2969-1.3032	True
	PCB 115 (BZ)		C110	34:25				1.2998		1.2967-1.3030	C110
	PCB 82 (BZ)			34:47	34:56	9		1.3141	1.3141	1.3122-1.3160	True
	PCB 111 (BZ)			35:01	35:05	4		1.3225	**1.3197**	1.3206-1.3244	**Warning**
	PCB 120 (BZ)			35:29	35:32	3		1.3401	**1.3367**	1.3382-1.3420	**Warning**
	PCB 124 (BZ)		C108	36:42				1.3858		1.3827-1.3890	C108
	PCB 108 (BZ)/107 (IUPAC)		C108	36:41	36:46	5		1.3854	1.3831	1.3823-1.3886	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1
ICAL Date: 03/13/07
CCAL Filename: a071015s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071015s1/a071015s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/15/07 11:53
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 192 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 107 (BZ)/109 (IUPAC)			36:55	37:00	5		1.3942	**1.3918**	1.3923-1.3961	**Warning**
	PCB 123 (BZ)	T		37:01	37:08	7		1.0004	1.0004	0.9991-1.0018	True
	PCB 106 (BZ)			37:10	37:15	5		1.0042	1.0036	1.0028-1.0055	True
	PCB 118 (BZ)	T		37:22	37:27	5		1.0007	1.0004	0.9994-1.0021	True
	PCB 122 (BZ)			37:46	37:52	6		1.0117	1.0116	1.0104-1.0131	True
	PCB 114 (BZ)	T		37:54	37:59	5		1.0006	1.0000	0.9993-1.0019	True
	PCB 105 (BZ)	T		38:37	38:44	7		1.0010	1.0004	0.9997-1.0023	True
	PCB 127 (BZ)			40:00	40:04	4		1.0367	**1.0349**	1.0354-1.0380	**Warning**
	PCB 126 (BZ)	T		41:39	41:47	8		1.0005	1.0004	0.9993-1.0017	True
I	13C12-PCB 155			32:02	32:05	3	15	0.7919	0.7915	0.7878-0.7960	True
S	13C12-PCB 153			39:08	39:11	3		0.9018	0.9015	0.8999-0.9037	True
R	13C12-PCB 138			40:27	40:32	5		1.0000	1.0000	0.9794-1.0206	True
I	13C12-PCB 167			43:24	43:28	4	15	1.0729	1.0724	0.1687-1.0770	True
I	13C12-PCB 156			44:34	44:45	11	15	1.1018	~~1.1040~~ 1.1012	1.1006-1.1031	~~Warning~~ True DRB 10-17-07
I	13C12-PCB 157			44:39			15	1.1037		1.1025-1.1049	
I	13C12-PCB 169			47:50	47:54	4	15	1.1822	1.1817	1.1809-1.1834	True
	PCB 155 (BZ)	L		32:03	32:06	3		1.0006	1.0005	0.9980-1.0032	True
	PCB 152 (BZ)			32:25	32:31	6		1.0121	1.0135	1.0105-1.0136	True
	PCB 150 (BZ)			32:31	32:36	5		1.0154	1.0161	1.0138-1.0169	True
	PCB 136 (BZ)			33:00	33:07	7		1.0303	**1.0322**	1.0287-1.0318	**Warning**
	PCB 145 (BZ)			33:13	33:19	6		1.0369	1.0384	1.0353-1.0384	True
	PCB 148 (BZ)			34:38	34:40	2		1.0812	1.0805	1.0797-1.0828	True
	PCB 151 (BZ)		C135	35:17				1.1017		1.0991-1.1043	C135
	PCB 135 (BZ)		C135	35:22	35:29	7		1.1041	1.1060	1.1015-1.1067	True
	PCB 154 (BZ)		C135	35:27				1.1066		1.1040-1.1092	C135
	PCB 144 (BZ)			35:51	35:54	3		1.1192	1.1190	1.1177-1.1208	True
	PCB 147 (BZ)		C147	36:12	36:17	5		1.1298	1.1309	1.1272-1.1324	True
	PCB 149 (BZ)		C147	36:14				1.1310		1.1284-1.1336	C147
	PCB 134 (BZ)		C134	36:27				1.1379		1.1353-1.1405	C134
	PCB 143 (BZ)		C134	36:34	36:38	4		1.1412	1.1418	1.1386-1.1438	True
	PCB 139 (BZ)		C139	36:46	36:52	6		1.1477	1.1491	1.1451-1.1503	True
	PCB 140 (BZ)		C139	36:49				1.1490		1.1464-1.1516	C139
	PCB 131 (BZ)			37:02	37:09	7		1.1563	1.1579	1.1548-1.1579	True
	PCB 142 (BZ)			37:12	37:17	5		1.1610	1.1621	1.1594-1.1626	True
	PCB 132 (BZ)			37:34	37:40	6		1.1725	1.1740	1.1698-1.1751	True
	PCB 133 (BZ)			37:56	37:58	2		1.1841	1.1834	1.1825-1.1856	True
	PCB 165 (BZ)			38:19	38:22	3		0.8827	0.8827	0.8815-0.8838	True
	PCB 146 (BZ)			38:33	38:37	4		0.8883	0.8884	0.8871-0.8895	True
	PCB 161 (BZ)			38:42	38:44	2		0.8915	0.8911	0.8903-0.8927	True
	PCB 153 (BZ)		C153	39:11	39:15	4		0.9028	0.9030	0.9008-0.9047	True
	PCB 168 (BZ)		C153	39:13				0.9035		0.9016-0.9054	C153
	PCB 141 (BZ)			39:25	39:29	4		0.9081	0.9084	0.9070-0.9093	True
	PCB 130 (BZ)			39:51	39:56	5		0.9182	0.9187	0.9171-0.9194	True
	PCB 137 (BZ)			40:02	40:06	4		0.9225	0.9225	0.9213-0.9236	True
	PCB 164 (BZ)			40:11	40:16	5		0.9258	0.9264	0.9246-0.9269	True
	PCB 138 (BZ)		C129	40:29	40:33	4		0.9327	0.9329	0.9300-0.9354	True
	PCB 163 (BZ)		C129	40:29				0.9326		0.9299-0.9353	C129
	PCB 129 (BZ)		C129	40:35				0.9351		0.9325-0.9378	C129

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1 **ICAL Date:** 03/13/07

CCAL Filename: a071015s1 **Method:** IE5 - IE5

CCAL Sample ID: 2990:71 **Instrument:** M1D

CCAL Result Dir: /20071015s1/a071015s1.d **Column SN:** 35055-03A

CCAL Date/Time: 10/15/07 11:53 **Column Desc:** SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 192 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 160 (BZ)		C129	40:38				0.9362		0.9342-0.9381	C129
	PCB 158 (BZ)			40:50	40:55	5		0.9409	0.9413	0.9397-0.9421	True
	PCB 166 (BZ)			41:41	41:46	5		0.9605	0.9609	0.9586-0.9624	True
	PCB 128 (BZ)			41:48	41:55	7		0.9632	0.9643	0.9612-0.9651	True
	PCB 159 (BZ)			42:40	42:42	2		0.9830	0.9824	0.9819-0.9842	True
	PCB 162 (BZ)			42:57	43:00	3		0.9895	0.9893	0.9884-0.9907	True
	PCB 167 (BZ)	T		43:27	43:29	2		1.0009	1.0004	0.9998-1.0021	True
	PCB 156 (BZ)	T	C156	44:37	44:46	9		1.0008	~~1.0004~~	0.9997-1.0019	True
	PCB 157 (BZ)	T	C156	44:41				1.0025	1.0011	1.0006-1.0043	C156
	PCB 169 (BZ)	T		47:51	47:55	4		1.0003	1.0003	0.9993-1.0014	True
I	13C12-PCB 188			37:46	37:49	3	15	0.8226	0.8230	0.8190-0.8262	True
C	13C12-PCB 178			40:51	40:53	2		0.8896	0.8897	0.8859-0.8932	True
R	13C12-PCB 180			45:55	45:57	2		1.0000	1.0000	0.9819-1.0181	True
I	13C12-PCB 170			47:15	47:18	3	15	1.0288	1.0294	1.0252-1.0324	True
I	13C12-PCB 189			50:18	50:20	2	15	1.0954	1.0954	1.0918-1.0991	True
	PCB 188 (BZ)	L		37:47	37:50	3		1.0004	1.0004	0.9991-1.0017	True
	PCB 179 (BZ)			38:15	38:20	5		1.0127	1.0137	1.0114-1.0141	True
	PCB 184 (BZ)			38:39	38:40	1		1.0232	1.0225	1.0219-1.0245	True
	PCB 176 (BZ)			39:07	39:10	3		1.0355	1.0357	1.0342-1.0368	True
	PCB 186 (BZ)			39:34	39:39	5		1.0476	1.0485	1.0463-1.0489	True
	PCB 178 (BZ)			40:53	40:55	2		1.0824	1.0820	1.0811-1.0838	True
	PCB 175 (BZ)			41:30	41:31	1		1.0988	1.0978	1.0974-1.1001	True
	PCB 187 (BZ)			41:46	41:48	2		1.1058	1.1053	1.1045-1.1071	True
	PCB 182 (BZ)			41:57	41:58	1		1.1105	1.1097	1.1092-1.1118	True
	PCB 183 (BZ)			42:22	42:23	1		1.1217	1.1208	1.1204-1.1230	True
	PCB 185 (BZ)			42:31	42:34	3		1.1255	1.1256	1.1242-1.1268	True
	PCB 174 (BZ)			42:41	42:44	3		1.1301	1.1300	1.1288-1.1314	True
	PCB 177 (BZ)			43:08	43:11	3		1.1418	1.1419	1.1405-1.1432	True
	PCB 181 (BZ)			43:28	43:30	2		1.1507	1.1503	1.1493-1.1520	True
	PCB 171 (BZ)		C171	43:45				1.1580		1.1558-1.1602	C171
	PCB 173 (BZ)		C171	43:44	43:48	4		1.1576	1.1582	1.1563-1.1589	True
	PCB 172 (BZ)			45:19	45:20	1		0.9007	0.9007	0.8997-0.9017	True
	PCB 192 (BZ)			45:34	45:36	2		0.9057	0.9060	0.9047-0.9067	True
	PCB 193 (BZ)		C180	45:53	45:57	4		0.9123	0.9129	0.9113-0.9133	True
	PCB 180 (BZ)		C180	45:56				0.9131		0.9121-0.9141	C180
	PCB 191 (BZ)			46:19	46:20	1		0.9206	0.9205	0.9196-0.9216	True
	PCB 170 (BZ)			47:17	47:19	2		0.9400	0.9401	0.9390-0.9410	True
	PCB 190 (BZ)			47:46	47:48	2		0.9498	0.9497	0.9488-0.9507	True
	PCB 189 (BZ)	T		50:20	50:22	2		1.0004	1.0007	0.9994-1.0014	True
I	13C12-PCB 202			43:08	43:10	2	15	0.8236	0.8243	0.8204-0.8268	True
R	13C12-PCB 194			52:23	52:22	-1		1.0000	1.0000	0.9960-1.0040	True
I	13C12-PCB 205			52:50	52:51	1	15	1.0088	1.0092	1.0040-1.0136	True
	PCB 202 (BZ)	L		43:09	43:11	2		1.0004	1.0004	0.9984-1.0023	True
	PCB 200 (BZ)/201 (IUPAC)			44:05	44:05	0		1.0219	1.0212	1.0199-1.0238	True
	PCB 204 (BZ)			44:43	44:43	0		1.0367	1.0359	1.0355-1.0378	True
	PCB 197 (BZ)			44:57	44:58	1		1.0421	1.0417	1.0409-1.0432	True
	PCB 199 (BZ)/200 (IUPAC)			45:09	45:11	2		1.0468	1.0467	1.0457-1.0480	True
	PCB 198 (BZ)		C198	47:50	47:54	4		1.1088	1.1097	1.1068-1.1107	True

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IsoCalc Continuing Calibration Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

CCAL ID: 23209 - A071015S1
ICAL Date: 03/13/07
CCAL Filename: a071015s1
Method: IE5 - IE5
CCAL Sample ID: 2990:71
Instrument: M1D
CCAL Result Dir: /20071015s1/a071015s1.d
Column SN: 35055-03A
CCAL Date/Time: 10/15/07 11:53
Column Desc: SPB-Octyl 30m x 0.25mm ID x 0.25um

Report Summary Totals: Valid? = True: 192 False: 0 Warning: 19

	Analytes	T/L	C	ICAL RT	CCAL RT	RT Diff	RT Limit	ICAL RRT	CCAL RRT	RRT QC Limit	Valid?
	PCB 201 (BZ)/199 (IUPAC)		C198	47:54				1.1103		1.1092-1.1115	C198
	PCB 196 (BZ)			48:33	48:32	-1		0.9188	0.9183	0.9179-0.9198	True
	PCB 203 (BZ)			48:43	48:43	0		0.9221	0.9218	0.9211-0.9230	True
	PCB 195 (BZ)			50:04	50:07	3		0.9485	0.9483	0.9483-0.9501	True
	PCB 194 (BZ)			52:24	52:25	1		0.9919	0.9918	0.9909-0.9928	True
	PCB 205 (BZ)	L		52:52	52:52	0		1.0004	1.0003	0.9995-1.0013	True
I	13C12-PCB 208			49:46	49:45	-1	15	0.9501	0.9500	0.9469-0.9533	True
I	13C12-PCB 206			54:33	54:31	-2	15	1.0414	1.0411	1.0366-1.0462	True
	PCB 208 (BZ)	L		49:47	49:46	-1		1.0004	1.0003	0.9994-1.0014	True
	PCB 207 (BZ)			50:43	50:40	-3		1.0190	1.0184	1.0180-1.0200	True
	PCB 206 (BZ)	L		54:34	54:32	-2		1.0003	1.0003	0.9994-1.0013	True
I	13C12-PCB 209			56:08	56:04	-4	15	1.0716	1.0707	1.0668-1.0763	True
	PCB 209 (BZ)	L		56:09	56:06	-3		1.0004	1.0006	0.9995-1.0013	True

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.d	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:53	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
Total Monochlorobiphenyl		3750037	1200494			118.040806		118.040806		0.0920
13C12-PCB 1	12:20	2579336	901776	1.318	100.0	93.391859	93.39	93.391859		0.0531
13C12-PCB 3	14:34	2401398	697101	1.325	100.0	86.436812	86.44	86.436812		0.0528
PCB 1 (BZ)	12:20	1363362	479155	1.253	50.00	42.188945	84.38	42.188945		0.0274
PCB 2 (BZ)	14:23	1150138	365957	1.226	50.00	37.659157	75.32	37.659157		0.0316
PCB 3 (BZ)	14:35	1236537	355382	1.348	50.00	38.192704	76.39	38.192704		0.0330
Total Dichlorobiphenyl		12973101	2780580			551.602422		551.602422		1.43
13C12-PCB 4	14:51	1349169	409769	0.615	100.0	104.686230	104.69	104.686230		0.117
13C12-PCB 9	16:48	2095992	579061	1.000	100.0	100.000000	100.00	100.000000		0.0717
13C12-PCB 8	17:42	1055676	265008	1.332	50.00	47.678711	95.36	47.678711	E	0.0771
13C12-PCB 15	20:52	1974526	398555	1.065	100.0	88.472909	88.47	88.472909		0.0673
PCB 4 (BZ)	14:52	727165	222794	1.212	50.00	44.485801	88.97	44.485801		0.149
PCB 10 (BZ)	15:01	1125219	332336	1.326	50.00	51.078077	102.16	51.078077		0.138
PCB 9 (BZ)	16:49	1156116	328837	1.445	50.00	48.135216	96.27	48.135216		0.126
PCB 7 (BZ)	16:58	1152815	294620	1.432	50.00	48.452729	96.91	48.452729		0.127
PCB 6 (BZ)	17:16	1124002	299095	1.450	50.00	46.641595	93.28	46.641595		0.126
PCB 5 (BZ)	17:35	986949	266667	1.356	50.00	43.801195	87.60	43.801195		0.135
PCB 8 (BZ)	17:43	1180139	302599	1.477	50.00	48.084723	96.17	48.084723		0.124
PCB 14 (BZ)	19:17	1295459	298553	1.687	50.00	46.195803	92.39	46.195803		0.108
PCB 11 (BZ)	20:13	1037087	210196	1.448	50.00	43.106904	86.21	43.106904		0.126
PCB 13 (BZ)	20:33	2109881	363570	1.454	100.0	87.321615	87.32	87.321615	C12	0.126
PCB 12 (BZ)		2109881		1.454	100.0	87.321615	87.32	87.321615	C	0.126
PCB 15 (BZ)	20:53	1078269	224883	1.233	50.00	44.298764	88.60	44.298764		0.150
Total Trichlorobiphenyl		21838461	3658513			1061.06014		1061.06014		3.05
13C12-PCB 19	18:03	978544	259282	0.558	100.0	108.551175	108.55	108.551175		0.319
13C12-PCB 32	21:18	1614521	363227	1.000	100.0	100.000000	100.00	100.000000		0.178
13C12-PCB 31	23:33	2200572	461121	1.000	100.0	100.000000	100.00	100.000000		0.140
13C12-PCB 28	23:50	1147799	227897	0.968	50.00	53.891265	107.78	53.891265	E	0.145
13C12-PCB 37	27:58	1874374	332836	0.885	100.0	96.217376	96.22	96.217376		0.159
PCB 19 (BZ)	18:04	584154	152548	1.178	50.00	50.689550	101.38	50.689550		0.192
PCB 30 (BZ)	19:45	857975	223445	1.874	50.00	46.777260	93.55	46.777260		0.121
PCB 18 (BZ)	19:55	591351	145982	1.262	50.00	47.879763	95.76	47.879763		0.180
PCB 17 (BZ)	20:18	616182	150727	1.326	50.00	47.489741	94.98	47.489741		0.171
PCB 27 (BZ)	20:34	859556	216452	1.945	50.00	45.159215	90.32	45.159215		0.116
PCB 24 (BZ)	20:40	824997	196667	1.782	50.00	47.311565	94.62	47.311565		0.127
PCB 16 (BZ)	20:51	538206	121569	1.157	50.00	47.523550	95.05	47.523550		0.196
PCB 32 (BZ)	21:19	935590	210071	1.966	50.00	48.621319	97.24	48.621319		0.115
PCB 34 (BZ)	22:31	992620	234064	1.216	50.00	43.551936	87.10	43.551936		0.145
PCB 23 (BZ)	22:39	1038465	233394	1.208	50.00	45.871072	91.74	45.871072		0.146
PCB 29 (BZ)	23:00	2084742	406082	1.265	100.0	87.942185	87.94	87.942185	C26	0.140
PCB 26 (BZ)		2084742		1.265	100.0	87.942185	87.94	87.942185	C	0.140
PCB 25 (BZ)	23:14	1125907	235723	1.362	50.00	44.117837	88.24	44.117837		0.130
PCB 31 (BZ)	23:35	1036391	227257	1.285	50.00	43.014691	86.03	43.014691		0.137
PCB 28 (BZ)	23:51	1969137	226798	1.238	100.0	84.837695	84.84	84.837695	C20	0.143
PCB 20 (BZ)		1969137		1.238	100.0	84.837695	84.84	84.837695	C	0.143
PCB 21 (BZ)	24:04	2190010	240196	1.276	100.0	91.595053	91.60	91.595053	C	0.138
PCB 33 (BZ)		2190010		1.276	100.0	91.595053	91.60	91.595053	C21	0.138
PCB 22 (BZ)	24:34	930810	195828	1.218	50.00	40.765632	81.53	40.765632		0.145
PCB 36 (BZ)	26:01	948100	186315	1.286	50.00	39.339804	78.68	39.339804		0.137

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.d	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:53	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 39 (BZ)	26:26	1003719	193992	1.330	50.00	40.261086	80.52	40.261086		0.133
PCB 38 (BZ)	27:00	937019	186966	1.246	50.00	40.120435	80.24	40.120435		0.142
PCB 35 (BZ)	27:33	860312	158495	1.195	50.00	38.397925	76.80	38.397925		0.148
PCB 37 (BZ)	27:59	913218	162220	1.224	50.00	39.792827	79.59	39.792827		0.144
Total Tetrachlorobiphenyl		35543123	5148743			2003.88702		2003.88702		7.06
13C12-PCB 54	21:12	968098	229742	0.598	100.0	100.342258	100.34	100.342258		0.138
13C12-PCB 52	25:40	1249407	269052	1.000	100.0	100.000000	100.00	100.000000		0.112
13C12-PCB 79	33:36	856876	162282	1.089	50.00	49.325897	98.65	49.325897	E	0.101
13C12-PCB 81	34:39	1585503	276802	1.286	100.0	98.646571	98.65	98.646571		0.0867
13C12-PCB 77	35:16	1606120	267164	1.297	100.0	99.099669	99.10	99.099669		0.0860
PCB 54 (BZ)	21:14	592697	139454	1.211	50.00	50.552582	101.11	50.552582		0.235
PCB 50 (BZ)	23:17	1462573	176629	0.927	100.0	98.887630	98.89	98.887630	C	0.260
PCB 53 (BZ)		1462573		0.927	100.0	98.887630	98.89	98.887630	C50	0.260
PCB 45 (BZ)	24:03	1388410	287209	0.857	100.0	101.496947	101.50	101.496947	C	0.281
PCB 51 (BZ)		1388410		0.857	100.0	101.496947	101.50	101.496947	C45	0.281
PCB 46 (BZ)	24:24	571969	118794	0.706	50.00	50.743851	101.49	50.743851		0.341
PCB 52 (BZ)	25:42	678752	146650	0.926	50.00	45.935528	91.87	45.935528		0.260
PCB 73 (BZ)	25:49	1475866	202419	0.957	100.0	96.603410	96.60	96.603410	C43	0.252
PCB 43 (BZ)		1475866		0.957	100.0	96.603410	96.60	96.603410	C	0.252
PCB 69 (BZ)	26:02	882671	188968	1.180	50.00	46.855847	93.71	46.855847		0.204
PCB 49 (BZ)	26:10	778315	169863	1.005	50.00	48.513622	97.03	48.513622		0.240
PCB 48 (BZ)	26:27	647760	143164	0.886	50.00	45.816027	91.63	45.816027		0.272
PCB 65 (BZ)	26:40	2303463	332305	1.024	150.0	140.997537	94.00	140.997537	C44	0.235
PCB 47 (BZ)		2303463		1.024	150.0	140.997537	94.00	140.997537	C44	0.235
PCB 44 (BZ)		2303463		1.024	150.0	140.997537	94.00	140.997537	C	0.235
PCB 62 (BZ)	26:57	2966546	345610	1.297	150.0	143.379577	95.59	143.379577	C59	0.186
PCB 75 (BZ)		2966546		1.297	150.0	143.379577	95.59	143.379577	C59	0.186
PCB 59 (BZ)		2966546		1.297	150.0	143.379577	95.59	143.379577	C	0.186
PCB 42 (BZ)	27:15	716176	136608	0.860	50.00	52.209465	104.42	52.209465		0.280
PCB 41 (BZ)	27:41	539570	122602	0.723	50.00	46.742324	93.48	46.742324		0.333
PCB 71 (BZ)	27:46	1525217	219459	0.953	100.0	100.263372	100.26	100.263372	C40	0.253
PCB 40 (BZ)		1525217		0.953	100.0	100.263372	100.26	100.263372	C	0.253
PCB 64 (BZ)	27:59	1054574	213395	1.313	50.00	50.330473	100.66	50.330473		0.183
PCB 72 (BZ)	28:42	965870	202282	1.257	50.00	48.146779	96.29	48.146779		0.192
PCB 68 (BZ)	28:59	984082	211239	1.327	50.00	46.465581	92.93	46.465581		0.181
PCB 57 (BZ)	29:25	916399	184468	1.194	50.00	48.093924	96.19	48.093924		0.202
PCB 58 (BZ)	29:43	927059	182180	1.260	50.00	46.118421	92.24	46.118421		0.191
PCB 67 (BZ)	29:50	970015	194831	1.286	50.00	47.252519	94.51	47.252519		0.187
PCB 63 (BZ)	30:06	950603	197922	1.339	50.00	44.498006	89.00	44.498006		0.180
PCB 61 (BZ)	30:20	816588	178665	1.190	50.00	42.995540	85.99	42.995540		0.202
PCB 70 (BZ)	30:30	2963730	567550	1.317	150.0	141.008627	94.01	141.008627	C	0.183
PCB 76 (BZ)		2963730		1.317	150.0	141.008627	94.01	141.008627	C70	0.183
PCB 74 (BZ)		2963730		1.317	150.0	141.008627	94.01	141.008627	C70	0.183
PCB 66 (BZ)	30:49	897509	187734	1.289	50.00	43.623528	87.25	43.623528		0.187
PCB 55 (BZ)	31:02	842759	159254	1.161	50.00	45.505943	91.01	45.505943		0.208
PCB 56 (BZ)	31:33	900504	181072	1.231	50.00	45.845290	91.69	45.845290		0.196
PCB 60 (BZ)	31:46	941608	169011	1.191	50.00	49.543924	99.09	49.543924		0.202
PCB 80 (BZ)	31:58	1135122	204816	1.416	50.00	50.231845	100.46	50.231845		0.170
PCB 79 (BZ)	33:37	1050314	186369	1.371	50.00	48.015982	96.03	48.015982		0.176

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.d	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:53	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 78 (BZ)	34:12	874196	158812	1.181	50.00	46.374499	92.75	46.374499		0.204
PCB 81 (BZ)	34:41	926991	164647	1.317	50.00	44.378245	88.76	44.378245		0.180
PCB 77 (BZ)	35:17	895215	151184	1.200	50.00	46.460180	92.92	46.460180		0.204
Total Pentachlorobiphenyl		32613584	3916511			2177.01076		2177.01076		6.70
13C12-PCB 104	26:35	1468078	324029	1.260	100.0	103.318225	103.32	103.318225		0.125
13C12-PCB 95	29:38	508938	103902	0.741	50.00	46.802559	93.61	46.802559	E	0.150
13C12-PCB 101	32:27	1127942	229367	1.000	100.0	100.000000	100.00	100.000000		0.157
13C12-PCB 111	35:04	740813	141762	1.229	50.00	53.440057	106.88	53.440057	E	0.128
13C12-PCB 123	37:07	1753402	339782	0.955	100.0	98.679818	98.68	98.679818		0.112
13C12-PCB 118	37:26	1934808	349233	0.988	100.0	105.197046	105.20	105.197046		0.108
13C12-PCB 114	37:59	1762193	311986	0.971	100.0	97.515459	97.52	97.515459		0.110
13C12-PCB 105	38:43	1770038	326567	0.941	100.0	101.027857	101.03	101.027857		0.114
13C12-PCB 127	40:02	1861531	336043	1.000	100.0	100.000000	100.00	100.000000		0.107
13C12-PCB 126	41:46	1847678	323130	0.978	100.0	101.506609	101.51	101.506609		0.110
PCB 104 (BZ)	26:36	809601	168239	1.149	50.00	47.975380	95.95	47.975380		0.170
PCB 96 (BZ)	27:08	698477	150227	1.014	50.00	46.942734	93.89	46.942734		0.193
PCB 103 (BZ)	28:51	610759	131589	0.866	50.00	48.019300	96.04	48.019300		0.226
PCB 94 (BZ)	29:10	539179	112666	0.703	50.00	52.258021	104.52	52.258021		0.279
PCB 95 (BZ)	29:40	1208206	218239	0.859	100.0	95.838260	95.84	95.838260	C	0.228
PCB 100 (BZ)		1208206		0.859	100.0	95.838260	95.84	95.838260	C95	0.228
PCB 93 (BZ)	29:51	500687	112283	0.701	50.00	48.622079	97.24	48.622079		0.279
PCB 102 (BZ)	29:58	1195255	160931	0.822	100.0	99.016478	99.02	99.016478	C98	0.238
PCB 98 (BZ)		1195255		0.822	100.0	99.016478	99.02	99.016478	C	0.238
PCB 88 (BZ)	30:21	494211	102958	0.723	50.00	46.566257	93.13	46.566257		0.271
PCB 91 (BZ)	30:30	586460	122026	0.864	50.00	46.247457	92.49	46.247457		0.227
PCB 84 (BZ)	30:48	450247	92019	0.679	50.00	45.143964	90.29	45.143964		0.288
PCB 89 (BZ)	31:15	476441	102385	0.717	50.00	45.245788	90.49	45.245788		0.273
PCB 121 (BZ)	31:25	827049	164413	1.105	50.00	50.980251	101.96	50.980251		0.177
PCB 92 (BZ)	31:54	575442	118269	0.772	50.00	50.750272	101.50	50.750272		0.254
PCB 113 (BZ)	32:27	2083372	379030	0.990	150.0	143.398142	95.60	143.398142	C90	0.198
PCB 90 (BZ)		2083372		0.990	150.0	143.398142	95.60	143.398142	C	0.198
PCB 101 (BZ)		2083372		0.990	150.0	143.398142	95.60	143.398142	C90	0.198
PCB 83 (BZ)	33:02	1130026	233028	0.777	100.0	99.108866	99.11	99.108866	C	0.252
PCB 99 (BZ)		1130026		0.777	100.0	99.108866	99.11	99.108866	C83	0.252
PCB 112 (BZ)	33:11	787245	155067	1.079	50.00	49.700010	99.40	49.700010		0.182
PCB 109 (BZ)/108 (IUPAC)	33:31	4248747	329260	0.967	300.0	299.351851	99.78	299.351851	C86	0.203
PCB 86 (BZ)		4248747		0.967	300.0	299.351851	99.78	299.351851	C	0.203
PCB 119 (BZ)		4248747		0.967	300.0	299.351851	99.78	299.351851	C86	0.203
PCB 97 (BZ)		4248747		0.967	300.0	299.351851	99.78	299.351851	C86	0.203
PCB 125 (BZ)		4248747		0.967	300.0	299.351851	99.78	299.351851	C86	0.203
PCB 87 (BZ)		4248747		0.967	300.0	299.351851	99.78	299.351851	C86	0.203
PCB 117 (BZ)	34:12	2066468	167140	0.979	150.0	143.759866	95.84	143.759866	C85	0.200
PCB 116 (BZ)		2066468		0.979	150.0	143.759866	95.84	143.759866	C85	0.200
PCB 85 (BZ)		2066468		0.979	150.0	143.759866	95.84	143.759866	C	0.200
PCB 110 (BZ)	34:32	1659044	296583	1.139	100.0	99.239930	99.24	99.239930	C	0.172
PCB 115 (BZ)		1659044		1.139	100.0	99.239930	99.24	99.239930	C110	0.172
PCB 82 (BZ)	34:56	440440	85593	0.605	50.00	49.618714	99.24	49.618714		0.324
PCB 111 (BZ)	35:05	811613	166420	1.129	50.00	48.978258	97.96	48.978258		0.174
PCB 120 (BZ)	35:32	828559	154460	1.192	50.00	47.341398	94.68	47.341398		0.164

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.d	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:53	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 124 (BZ)		1717870		1.123	100.0	84.309331	84.31	84.309331	C108	0.171
PCB 108 (BZ)/107 (IUPAC)	36:46	1717870	317129	1.123	100.0	84.309331	84.31	84.309331	C	0.171
PCB 107 (BZ)/109 (IUPAC)	37:00	856091	163350	1.074	50.00	43.946256	87.89	43.946256		0.179
PCB 123 (BZ)	37:08	888577	177086	1.136	50.00	44.609633	89.22	44.609633		0.165
PCB 106 (BZ)	37:15	857011	164145	1.046	50.00	45.173511	90.35	45.173511		0.184
PCB 118 (BZ)	37:27	909201	170970	1.094	50.00	42.965602	85.93	42.965602		0.166
PCB 122 (BZ)	37:52	738953	149903	1.047	50.00	38.898745	77.80	38.898745		0.184
PCB 114 (BZ)	37:59	960364	167849	1.196	50.00	45.562984	91.13	45.562984		0.170
PCB 105 (BZ)	38:44	896367	159871	1.218	50.00	41.572949	83.15	41.572949		0.160
PCB 127 (BZ)	40:04	890966	165575	1.130	50.00	43.455505	86.91	43.455505		0.170
PCB 126 (BZ)	41:47	870656	144326	1.111	50.00	42.412971	84.83	42.412971		0.177
Total Hexachlorobiphenyl		31036898	4858413			2004.79050		2004.79050		9.79
13C12-PCB 155	32:05	1434795	294242	1.178	100.0	107.991658	107.99	107.991658		0.115
13C12-PCB 153	39:11	685621	134062	0.833	50.00	46.979687	93.96	46.979687	E	0.153
13C12-PCB 138	40:32	1381520	264854	1.000	100.0	100.000000	100.00	100.000000		0.117
13C12-PCB 167	43:28	1786253	329864	1.237	100.0	104.554471	104.55	104.554471		0.0946
13C12-PCB 156	44:45	3585914	358726	1.229	200.0	211.231197	105.62	211.231197		0.0953
13C12-PCB 157								ND		0.000000
13C12-PCB 169	47:54	1632168	282161	1.188	100.0	99.482353	99.48	99.482353		0.0986
PCB 155 (BZ)	32:06	782252	171781	1.117	50.00	48.806624	97.61	48.806624		0.214
PCB 152 (BZ)	32:31	752873	148751	1.023	50.00	51.277953	102.56	51.277953		0.233
PCB 150 (BZ)	32:36	689675	154468	1.032	50.00	46.563734	93.13	46.563734		0.231
PCB 136 (BZ)	33:07	694669	141876	0.967	50.00	50.091201	100.18	50.091201		0.247
PCB 145 (BZ)	33:19	735988	149599	1.021	50.00	50.264212	100.53	50.264212		0.234
PCB 148 (BZ)	34:40	524361	109816	0.749	50.00	48.793998	97.59	48.793998		0.319
PCB 151 (BZ)		1715823		0.781	150.0	153.217004	102.14	153.217004	C135	0.306
PCB 135 (BZ)	35:29	1715823	198550	0.781	150.0	153.217004	102.14	153.217004	C	0.306
PCB 154 (BZ)		1715823		0.781	150.0	153.217004	102.14	153.217004	C135	0.306
PCB 144 (BZ)	35:54	532302	105816	0.759	50.00	48.901671	97.80	48.901671		0.315
PCB 147 (BZ)	36:17	1393257	227850	0.862	100.0	92.328195	92.33	92.328195	C	0.336
PCB 149 (BZ)		1393257		0.862	100.0	92.328195	92.33	92.328195	C147	0.336
PCB 134 (BZ)		1156451		0.711	100.0	92.828648	92.83	92.828648	C	0.407
PCB 143 (BZ)	36:38	1156451	138810	0.711	100.0	92.828648	92.83	92.828648	C134	0.407
PCB 139 (BZ)	36:52	1420390	214898	0.856	100.0	94.794121	94.79	94.794121	C	0.338
PCB 140 (BZ)		1420390		0.856	100.0	94.794121	94.79	94.794121	C139	0.338
PCB 131 (BZ)	37:09	581093	116670	0.713	50.00	46.510200	93.02	46.510200		0.406
PCB 142 (BZ)	37:17	594974	119721	0.735	50.00	46.229838	92.46	46.229838		0.394
PCB 132 (BZ)	37:40	589892	116948	0.710	50.00	47.433822	94.87	47.433822		0.408
PCB 133 (BZ)	37:58	620806	122469	0.768	50.00	46.140037	92.28	46.140037		0.377
PCB 165 (BZ)	38:22	835196	170107	0.993	50.00	48.041045	96.08	48.041045		0.292
PCB 146 (BZ)	38:37	695960	148407	0.874	50.00	45.490316	90.98	45.490316		0.331
PCB 161 (BZ)	38:44	948798	178198	1.090	50.00	49.725523	99.45	49.725523		0.266
PCB 153 (BZ)	39:15	1783460	283480	1.068	100.0	95.322312	95.32	95.322312	C	0.271
PCB 168 (BZ)		1783460		1.068	100.0	95.322312	95.32	95.322312	C153	0.271
PCB 141 (BZ)	39:29	677160	125035	0.756	50.00	51.167265	102.33	51.167265		0.383
PCB 130 (BZ)	39:56	584102	111566	0.708	50.00	47.084227	94.17	47.084227		0.409
PCB 137 (BZ)	40:06	712429	137505	0.835	50.00	48.719613	97.44	48.719613		0.347
PCB 164 (BZ)	40:16	855364	164391	1.033	50.00	47.278885	94.56	47.278885		0.280
PCB 138 (BZ)	40:33	3075169	327383	0.922	200.0	190.466517	95.23	190.466517	C129	0.314

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.d	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:53	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 163 (BZ)		3075169		0.922	200.0	190.466517	95.23	190.466517	C129	0.314
PCB 129 (BZ)		3075169		0.922	200.0	190.466517	95.23	190.466517	C	0.314
PCB 160 (BZ)		3075169		0.922	200.0	190.466517	95.23	190.466517	C129	0.314
PCB 158 (BZ)	40:55	1002449	187016	1.191	50.00	48.059278	96.12	48.059278		0.243
PCB 166 (BZ)	41:46	885006	173585	1.102	50.00	45.854860	91.71	45.854860		0.263
PCB 128 (BZ)	41:55	663862	117191	0.769	50.00	49.309678	98.62	49.309678		0.376
PCB 159 (BZ)	42:42	913990	164845	1.079	50.00	48.364373	96.73	48.364373		0.268
PCB 162 (BZ)	43:00	919490	176432	1.079	50.00	48.670855	97.34	48.670855		0.268
PCB 167 (BZ)	43:29	943247	180283	1.150	50.00	45.908870	91.82	45.908870		0.185
PCB 156 (BZ)	44:46	1825266	184959	1.151	100.0	88.475489	88.48	88.475489	C	0.340
PCB 157 (BZ)		1825266		1.151		88.475489		88.475489	C156	0.340
PCB 169 (BZ)	47:55	931144	156667	1.337	50.00	42.670139	85.34	42.670139		0.186
Total Heptachlorobiphenyl		16585443	2740200			1150.77254		1150.77254		4.23
13C12-PCB 188	37:49	1654759	329036	1.238	100.0	101.303506	101.30	101.303506		0.0918
13C12-PCB 178	40:53	540163	112654	0.863	50.00	47.437968	94.88	47.437968	E	0.132
13C12-PCB 180	45:57	1319294	255010	1.000	100.0	100.000000	100.00	100.000000		0.114
13C12-PCB 170	47:18	1088861	210311	0.813	100.0	101.458062	101.46	101.458062		0.140
13C12-PCB 189	50:20	1781951	314751	1.620	100.0	98.411478	98.41	98.411478		0.0860
PCB 188 (BZ)	37:50	831945	171453	1.071	50.00	46.959143	93.92	46.959143		0.151
PCB 179 (BZ)	38:20	795148	158215	1.200	50.00	48.309287	96.62	48.309287		0.165
PCB 184 (BZ)	38:40	770099	154350	1.178	50.00	47.642996	95.29	47.642996		0.168
PCB 176 (BZ)	39:10	816817	166012	1.252	50.00	47.560135	95.12	47.560135		0.158
PCB 186 (BZ)	39:39	795063	162041	1.214	50.00	47.727852	95.46	47.727852		0.163
PCB 178 (BZ)	40:55	565458	111729	0.889	50.00	46.348894	92.70	46.348894		0.222
PCB 175 (BZ)	41:31	600812	122147	0.920	50.00	47.600014	95.20	47.600014		0.215
PCB 187 (BZ)	41:48	668650	131158	1.009	50.00	48.315856	96.63	48.315856		0.196
PCB 182 (BZ)	41:58	668706	133606	0.972	50.00	50.155412	100.31	50.155412		0.203
PCB 183 (BZ)	42:23	631527	129524	0.946	50.00	48.655503	97.31	48.655503		0.209
PCB 185 (BZ)	42:34	618468	119483	0.919	50.00	49.062709	98.13	49.062709		0.215
PCB 174 (BZ)	42:44	599571	115913	0.924	50.00	47.299180	94.60	47.299180		0.214
PCB 177 (BZ)	43:11	572247	111926	0.880	50.00	47.429829	94.86	47.429829		0.225
PCB 181 (BZ)	43:30	618166	125800	0.975	50.00	46.229768	92.46	46.229768		0.203
PCB 171 (BZ)		1115201		0.835	100.0	97.354214	97.35	97.354214	C	0.236
PCB 173 (BZ)	43:48	1115201	218773	0.835	100.0	97.354214	97.35	97.354214	C171	0.236
PCB 172 (BZ)	45:20	552464	105096	0.838	50.00	48.046373	96.09	48.046373		0.236
PCB 192 (BZ)	45:36	771582	151859	1.147	50.00	49.024803	98.05	49.024803		0.172
PCB 193 (BZ)	45:57	1487869	229728	1.134	100.0	95.642814	95.64	95.642814	C180	0.174
PCB 180 (BZ)		1487869		1.134	100.0	95.642814	95.64	95.642814	C	0.174
PCB 191 (BZ)	46:20	826851	155152	1.228	50.00	49.093225	98.19	49.093225		0.161
PCB 170 (BZ)	47:19	556152	104632	1.058	50.00	48.294550	96.59	48.294550		0.239
PCB 190 (BZ)	47:48	844111	150361	1.254	50.00	49.086707	98.17	49.086707		0.158
PCB 189 (BZ)	50:22	878536	159743	1.097	50.00	44.933282	89.87	44.933282		0.154
Total Octachlorobiphenyl		7616357	1403520			574.722981		574.722981		1.71
13C12-PCB 202	43:10	1415379	282099	0.994	100.0	107.954054	107.95	107.954054		0.0769
13C12-PCB 194	52:22	1117410	208012	1.000	100.0	100.000000	100.00	100.000000		0.0937
13C12-PCB 205	52:51	1639330	308749	1.407	100.0	104.288577	104.29	104.288577		0.0666
PCB 202 (BZ)	43:11	657988	129517	0.993	50.00	46.829676	93.66	46.829676		0.144
PCB 200 (BZ)/201 (IUPAC)	44:05	749863	146393	1.087	50.00	48.740271	97.48	48.740271		0.131
PCB 204 (BZ)	44:43	679099	133227	1.033	50.00	46.434155	92.87	46.434155		0.138

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PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.d	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/2007	Matrix	UNKNOWN	Date Sampled	
Analysis Time	11:53	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	IE3
Instrument	M1D	Dil Factor	1.0	Code	IE3
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)		DL (ng/mL)
PCB 197 (BZ)	44:58	746766	146475	1.061	50.00	49.710700	99.42	49.710700		0.134
PCB 199 (BZ)/200 (IUPAC)	45:11	724350	143418	1.031	50.00	49.643684	99.29	49.643684		0.138
PCB 198 (BZ)	47:54	1023168	121362	0.761	100.0	95.016643	95.02	95.016643	C	0.188
PCB 201 (BZ)/199 (IUPAC)		1023168		0.761	100.0	95.016643	95.02	95.016643	C198	0.188
PCB 196 (BZ)	48:32	504307	98584	0.752	50.00	47.374213	94.75	47.374213		0.190
PCB 203 (BZ)	48:43	581449	114181	0.856	50.00	47.992139	95.98	47.992139		0.167
PCB 195 (BZ)	50:07	579695	106077	0.723	50.00	48.941324	97.88	48.941324		0.180
PCB 194 (BZ)	52:25	620452	117555	0.795	50.00	47.614368	95.23	47.614368		0.164
PCB 205 (BZ)	52:52	749220	146731	0.984	50.00	46.425807	92.85	46.425807		0.132
Total Nonachlorobiphenyl		1952025	379093			139.552902		139.552902		0.284
13C12-PCB 208	49:45	1483274	294499	1.161	100.0	114.327048	114.33	114.327048		0.0901
13C12-PCB 206	54:31	1003492	193550	0.823	100.0	109.163802	109.16	109.163802		0.127
PCB 208 (BZ)	49:46	709979	140134	1.026	50.00	46.639424	93.28	46.639424		0.0835
PCB 207 (BZ)	50:40	731022	142218	1.264	50.00	46.512277	93.02	46.512277		0.0819
PCB 206 (BZ)	54:32	511024	96741	1.097	50.00	46.401201	92.80	46.401201		0.119
13C12-PCB 209	56:04	1235378	224500	0.930	100.0	118.866125	118.87	118.866125		0.133
PCB 209 (BZ)	56:06	616051	112460	1.006	50.00	49.584178	99.17	49.584178		0.0775

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IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/07 11:53	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					**188.0393**	**190.0363**	**188.0393**	**190.0363**	**2.66-3.60**		
	Noise	00:00	00:00	0	168	143	67	57	1.18 *	/	
	PCB 1 (BZ)	12:20	12:22	-2	1029633	333729	356318	122837	3.09	AVV/AVV	
	PCB 2 (BZ)	14:23	14:25	-2	870946	279192	277183	88774	3.12	ABV/ABV	
	PCB 3 (BZ)	14:35	14:35	0	935512	301025	266818	88564	3.11	AVB/AVB	
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	168	238	67	95	0.71 *	/	
	13C12-PCB 1	12:20	12:21	-1	1978737	600599	688836	212940	3.29	ABV/AVV	
	13C12-PCB 3	14:34	14:34	0	1846341	555057	532367	164734	3.33	ABV/ABV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	283	455	113	182	0.62 *	/	
	PCB 4 (BZ)	14:52	14:52	0	451627	275538	138573	84221	1.64	ABV/ABV	
	PCB 10 (BZ)	15:01	15:03	-2	694719	430500	206798	125538	1.61	AVV/AVV	
	PCB 9 (BZ)	16:49	16:50	-1	718234	437882	202984	125853	1.64	ABV/ABV	
	PCB 7 (BZ)	16:58	16:59	-1	710585	442230	183215	111405	1.61	AVV/AVV	
	PCB 6 (BZ)	17:16	17:16	0	695152	428850	185187	113908	1.62	AVV/AVB	
	PCB 5 (BZ)	17:35	17:35	0	622654	364295	164719	101948	1.71	AVV/ABV	
	PCB 8 (BZ)	17:43	17:43	0	714979	465160	185535	117064	1.54	AVB/AVB	
	PCB 14 (BZ)	19:17	19:18	-1	799971	495488	184100	114453	1.61	ABV/AVV	
	PCB 11 (BZ)	20:13	20:13	0	643772	393315	128924	81272	1.64	ABV/ABV	
	PCB 13 (BZ)	20:33	20:29	4	1307978	801903	227485	136085	1.63	AVV/AVV	
	PCB 15 (BZ)	20:53	20:50	3	670260	408009	138485	86398	1.64	AVB/AVB	
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	235	180	94	72	1.31 *	/	
	13C12-PCB 4	14:51	14:51	0	842821	506348	253655	156114	1.66	ABV/ABV	
	13C12-PCB 9	16:48	16:48	0	1296401	799591	356629	222432	1.62	ABV/ABV	
	13C12-PCB 8	17:42	17:41	1	658271	397405	166100	98908	1.66	AVV/AVV	
	13C12-PCB 15	20:52	20:50	2	1226158	748368	245475	153080	1.64	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	300	288	120	115	1.04	/	
	PCB 19 (BZ)	18:04	18:04	0	304016	280138	78161	74387	1.09	ABV/ABV	
	PCB 30 (BZ)	19:45	19:47	-2	439290	418685	115886	107559	1.05	ABV/ABV	D
	PCB 18 (BZ)	19:55	19:54	1	299919	291432	74541	71441	1.03	AVB/AVB	
	PCB 17 (BZ)	20:18	20:19	-1	314923	301259	77615	73112	1.05	ABV/ABV	
	PCB 27 (BZ)	20:34	20:34	0	446880	412676	113030	103422	1.08	AVV/AVV	
	PCB 24 (BZ)	20:40	20:40	0	431136	393861	105510	91157	1.09	AVV/AVV	
	PCB 16 (BZ)	20:51	20:50	1	270728	267478	62555	59014	1.01	AVB/AVB	
	PCB 32 (BZ)	21:19	21:20	-1	486180	449410	107425	102646	1.08	ABV/ABB	D
	PCB 34 (BZ)	22:31	22:33	-2	488517	504103	114485	119579	0.97	ABV/ABV	D
	PCB 23 (BZ)	22:39	22:40	-1	489160	549305	110043	123351	0.89	AVB/AVB	D
	PCB 29 (BZ)	23:00	23:00	0	1007831	1076911	200412	205670	0.94	ABV/ABV	
	PCB 25 (BZ)	23:14	23:14	0	539815	586092	114439	121284	0.92	AVV/AVV	
	PCB 31 (BZ)	23:35	23:35	0	505867	530524	112882	114375	0.95	AVB/AVV	
	PCB 28 (BZ)	23:51	23:51	0	935869	1033268	109094	117704	0.91	ABV/AVV	

Notes:
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T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/07 11:53	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	PCB 21 (BZ)	24:04	24:03	1	1039890	1150120	116137	124059	0.90	AVV/AVV	
	PCB 22 (BZ)	24:34	24:33	1	441720	489090	93879	101949	0.90	ABB/AVB	
	PCB 36 (BZ)	26:01	26:03	-2	457231	490869	93195	93120	0.93	MVV/AVV	D
	PCB 39 (BZ)	26:26	26:24	2	471298	532421	91420	102572	0.89	AVV/AVV	
	PCB 38 (BZ)	27:00	27:00	0	448368	488651	87827	99139	0.92	AVV/AVV	D
	PCB 35 (BZ)	27:33	27:31	2	417284	443028	77693	80802	0.94	ABV/AVV	
	PCB 37 (BZ)	27:59	27:56	3	437661	475557	76465	85755	0.92	AVV/AVV	
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	373	275	149	110	1.35 *	/	
	13C12-PCB 19	18:03	18:02	1	512694	465850	135300	123982	1.10	AVV/ABV	
	13C12-PCB 32	21:18	21:18	0	844330	770191	188593	174634	1.10	AVV/AVV	
	13C12-PCB 31	23:33	23:33	0	1121480	1079092	237162	223959	1.04	ABV/ABV	
	13C12-PCB 28	23:50	23:50	0	592507	555292	116903	110994	1.07	AVV/AVV	
	13C12-PCB 37	27:58	27:54	4	969729	904645	169051	163785	1.07	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	338	318	135	127	1.06 *	/	
	PCB 54 (BZ)	21:14	21:12	2	261665	331032	63089	76365	0.79	ABV/ABB	
	PCB 50 (BZ)	23:17	23:19	-2	650226	812347	79520	97109	0.80	ABV/ABV	
	PCB 45 (BZ)	24:03	24:02	1	617896	770514	132423	154786	0.80	AVV/ABV	
	PCB 46 (BZ)	24:24	24:23	1	251238	320731	51607	67187	0.78	AVV/AVV	
	PCB 52 (BZ)	25:42	25:42	0	299251	379501	64649	82001	0.79	MVV/ABV	D
	PCB 73 (BZ)	25:49	25:49	0	628494	847372	86757	115662	0.74	MBV/AVV	D
	PCB 69 (BZ)	26:02	26:04	-2	397596	485075	84203	104765	0.82	AVV/AVV	D
	PCB 49 (BZ)	26:10	26:11	-1	339330	438985	77225	92638	0.77	AVB/AVB	D
	PCB 48 (BZ)	26:27	26:27	0	281755	366005	62153	81011	0.77	ABB/ABV	D
	PCB 65 (BZ)	26:40	26:40	0	1012872	1290591	146025	186280	0.78	ABV/AVV	
	PCB 62 (BZ)	26:57	26:56	1	1293544	1673002	156152	189458	0.77	AVV/AVV	
	PCB 42 (BZ)	27:15	27:15	0	318663	397513	59275	77333	0.80	AVV/AVB	D
	PCB 41 (BZ)	27:41	27:40	1	245095	294475	56763	65839	0.83	ABV/ABV	
	PCB 71 (BZ)	27:46	27:45	1	673193	852024	96408	123051	0.79	AVV/AVV	
	PCB 64 (BZ)	27:59	27:57	2	468133	586441	96564	116831	0.80	AVB/AVB	D
	PCB 72 (BZ)	28:42	28:45	-3	428481	537389	88101	114181	0.80	ABV/ABV	
	PCB 68 (BZ)	28:59	29:00	-1	440403	543679	92822	118417	0.81	AVV/AVV	
	PCB 57 (BZ)	29:25	29:27	-2	404123	512276	79116	105352	0.79	ABB/ABV	
	PCB 58 (BZ)	29:43	29:43	0	406561	520498	80691	101489	0.78	ABV/AVV	
	PCB 67 (BZ)	29:50	29:50	0	423985	546030	85136	109695	0.78	AVV/AVV	
	PCB 63 (BZ)	30:06	30:08	-2	415555	535048	84961	112961	0.78	AVB/AVV	
	PCB 61 (BZ)	30:20	30:21	-1	350219	466369	77861	100804	0.75	ABV/AVV	
	PCB 70 (BZ)	30:30	30:29	1	1305212	1658518	249733	317817	0.79	AVB/AVB	
	PCB 66 (BZ)	30:49	30:48	1	384207	513302	82271	105463	0.75	ABV/ABV	
	PCB 55 (BZ)	31:02	31:00	2	364214	478545	65868	93386	0.76	AVB/AVB	
	PCB 56 (BZ)	31:33	31:31	2	398587	501917	81876	99196	0.79	ABV/ABV	
	PCB 60 (BZ)	31:46	31:43	3	409253	532355	72263	96748	0.77	AVV/AVV	
	PCB 80 (BZ)	31:58	31:59	-1	499866	635256	90838	113978	0.79	AVV/AVB	

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/07 11:53	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	PCB 79 (BZ)	33:37	33:37	0	448908	601406	80028	106341	0.75	ABV/AVV	
	PCB 78 (BZ)	34:12	34:12	0	386450	487746	67855	90957	0.79	AVV/AVV	
	PCB 81 (BZ)	34:41	34:38	3	401706	525285	72758	91889	0.76	AVV/AVV	
	PCB 77 (BZ)	35:17	35:13	4	389616	505599	68029	83155	0.77	ABV/AVV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	153	148	61	59	1.03 *	/	
	13C12-PCB 54	21:12	21:11	1	431193	536905	101493	128249	0.80	ABV/ABV	
	13C12-PCB 52	25:40	25:41	-1	541685	707722	119227	149825	0.77	ABV/ABV	
	13C12-PCB 79	33:36	33:35	1	384531	472345	74627	87655	0.81	ABV/ABV	
	13C12-PCB 81	34:39	34:36	3	694186	891317	123314	153488	0.78	ABV/ABV	
	13C12-PCB 77	35:16	35:12	4	713069	893051	116635	150529	0.80	ABV/ABV	
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	348	288	139	115	1.21 *	/	
	PCB 104 (BZ)	26:36	26:38	-2	499256	310345	103756	64483	1.61	ABV/ABV	
	PCB 96 (BZ)	27:08	27:07	1	426029	272448	93737	56490	1.56	ABV/ABV	
	PCB 103 (BZ)	28:51	28:55	-4	377572	233187	82234	49355	1.62	ABV/ABV	
	PCB 94 (BZ)	29:10	29:11	-1	331037	208142	70286	42380	1.59	AVV/AVV	
	PCB 95 (BZ)	29:40	29:41	-1	746330	461876	133730	84509	1.62	ABV/ABV	
	PCB 93 (BZ)	29:51	29:50	1	308218	192469	70166	42117	1.60	AVV/AVV	
	PCB 102 (BZ)	29:58	29:58	0	750604	444651	99379	61552	1.69	AVB/AVB	
	PCB 88 (BZ)	30:21	30:23	-2	301531	192680	62662	40296	1.56	ABV/AVV	
	PCB 91 (BZ)	30:30	30:30	0	362456	224004	75401	46625	1.62	AVV/AVB	
	PCB 84 (BZ)	30:48	30:46	2	279540	170707	57584	34435	1.64	AVB/ABB	
	PCB 89 (BZ)	31:15	31:14	1	297764	178677	64415	37970	1.67	ABV/ABV	
	PCB 121 (BZ)	31:25	31:28	-3	512903	314146	101906	62507	1.63	AVV/AVB	D
	PCB 92 (BZ)	31:54	31:56	-2	352981	222461	72390	45879	1.59	ABV/ABB	
	PCB 113 (BZ)	32:27	32:28	-1	1288357	795015	234065	144965	1.62	ABV/ABV	
	PCB 83 (BZ)	33:02	33:02	0	708991	421035	144908	88120	1.68	ABV/ABV	
	PCB 112 (BZ)	33:11	33:12	-1	481500	305745	94690	60377	1.57	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	33:31	33:32	-1	2632446	1616301	201899	127361	1.63	ABB/ABB	
	PCB 117 (BZ)	34:12	34:13	-1	1264159	802309	100673	66467	1.58	ABV/ABV	
	PCB 110 (BZ)	34:32	34:31	1	1020424	638620	182571	114012	1.60	AVB/AVV	
	PCB 82 (BZ)	34:56	34:53	3	268366	172074	52209	33384	1.56	ABV/ABV	
	PCB 111 (BZ)	35:05	35:07	-2	501991	309622	103520	62900	1.62	AVV/AVV	D
	PCB 120 (BZ)	35:32	35:35	-3	506322	322237	94231	60229	1.57	AVV/AVV	D
	PCB 108 (BZ)/107 (IUPAC	36:46	36:47	-1	1023361	694509	187634	129495	1.47	ABV/ABV	
	PCB 107 (BZ)/109 (IUPAC	37:00	37:01	-1	509993	346098	96583	66767	1.47	AVV/AVV	D
	PCB 123 (BZ)	37:08	37:07	1	527846	360731	105138	71948	1.46	AVV/AVV	
	PCB 106 (BZ)	37:15	37:16	-1	516085	340926	100306	63839	1.51	AVV/AVV	
	PCB 118 (BZ)	37:27	37:28	-1	543977	365224	100332	70638	1.49	AVV/AVV	
	PCB 122 (BZ)	37:52	37:51	1	452980	285973	88020	61883	1.58	ABV/ABV	
	PCB 114 (BZ)	37:59	37:59	0	557484	402880	99151	68698	1.38	AVV/AVV	
	PCB 105 (BZ)	38:44	38:42	2	536893	359474	94730	65141	1.49	ABB/ABB	
	PCB 127 (BZ)	40:04	40:05	-1	529672	361294	98432	67143	1.47	AVV/AVV	D

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/07 11:53	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	PCB 126 (BZ)	41:47	41:43	4	525449	345207	87049	57277	1.52	ABV/ABV	
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	190	170	76	68	1.12 *	/	
	13C12-PCB 104	26:35	26:36	-1	904314	563764	198593	125436	1.60	ABV/ABV	
	13C12-PCB 95	29:38	29:38	0	315407	193531	63042	40860	1.63	ABV/ABV	
	13C12-PCB 101	32:27	32:28	-1	703271	424671	143893	85474	1.66	ABV/ABV	
	13C12-PCB 111	35:04	35:05	-1	459744	281069	90240	51522	1.64	ABV/ABV	
	13C12-PCB 123	37:07	37:07	0	1079515	673887	210510	129272	1.60	ABV/ABV	
	13C12-PCB 118	37:26	37:26	0	1189642	745166	217720	131513	1.60	AVV/AVV	
	13C12-PCB 114	37:59	37:57	2	1068754	693439	190610	121376	1.54	AVV/AVV	
	13C12-PCB 105	38:43	38:40	3	1089955	680083	199024	127543	1.60	ABB/ABB	
	13C12-PCB 127	40:02	40:03	-1	1144431	717100	207237	128806	1.60	ABV/ABV	
	13C12-PCB 126	41:46	41:42	4	1137517	710161	199697	123433	1.60	ABV/ABV	
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	Noise	00:00	00:00	0	365	338	146	135	1.08	/	
	PCB 155 (BZ)	32:06	32:10	-4	438596	343656	97771	74010	1.28	ABV/ABB	M
	PCB 152 (BZ)	32:31	32:32	-1	414906	337967	82406	66345	1.23	ABV/ABV	M
	PCB 150 (BZ)	32:36	32:38	-2	382775	306900	86316	68152	1.25	AVB/AVB	M
	PCB 136 (BZ)	33:07	33:07	0	391228	303441	79718	62158	1.29	ABV/ABV	
	PCB 145 (BZ)	33:19	33:20	-1	414921	321067	85291	64308	1.29	AVV/AVV	
	PCB 148 (BZ)	34:40	34:44	-4	290793	233568	61021	48795	1.25	ABV/ABB	M
	PCB 135 (BZ)	35:29	35:28	1	957331	758492	110543	88007	1.26	ABB/AVV	
	PCB 144 (BZ)	35:54	35:57	-3	297286	235016	58701	47115	1.26	ABB/ABB	
	PCB 147 (BZ)	36:17	36:18	-1	787017	606240	126853	100997	1.30	ABV/ABB	
	PCB 143 (BZ)	36:38	36:40	-2	660695	495756	80565	58245	1.33	AVV/ABV	
	PCB 139 (BZ)	36:52	36:52	0	797844	622546	120851	94047	1.28	AVV/AVV	
	PCB 131 (BZ)	37:09	37:08	1	334383	246710	67286	49384	1.36	AVV/AVV	M
	PCB 142 (BZ)	37:17	37:18	-1	341256	253718	68637	51084	1.35	AVB/AVB	M
	PCB 132 (BZ)	37:40	37:39	1	331188	258704	66428	50520	1.28	ABB/ABB	
	PCB 133 (BZ)	37:58	38:01	-3	342072	278734	68306	54163	1.23	ABB/ABB	
	PCB 165 (BZ)	38:22	38:24	-2	470255	364941	94739	75368	1.29	ABV/ABV	
	PCB 146 (BZ)	38:37	38:38	-1	392845	303115	84634	63773	1.30	AVV/AVV	
	PCB 161 (BZ)	38:44	38:47	-3	535694	413104	103888	74310	1.30	AVB/AVB	
	PCB 153 (BZ)	39:15	39:16	-1	998459	785001	156249	127231	1.27	ABV/ABV	
	PCB 141 (BZ)	39:29	39:30	-1	375435	301725	71772	53263	1.24	AVB/AVB	
	PCB 130 (BZ)	39:56	39:56	0	324234	259868	62335	49231	1.25	ABV/ABV	
	PCB 137 (BZ)	40:06	40:07	-1	407844	304585	75693	61812	1.34	AVV/AVV	
	PCB 164 (BZ)	40:16	40:16	0	480253	375111	92091	72300	1.28	AVV/AVV	
	PCB 138 (BZ)	40:33	40:33	0	1727356	1347813	182487	144896	1.28	AVV/AVV	
	PCB 158 (BZ)	40:55	40:54	1	562956	439493	104058	82958	1.28	AVB/AVB	
	PCB 166 (BZ)	41:46	41:45	1	493392	391614	96457	77128	1.26	ABV/AVV	
	PCB 128 (BZ)	41:55	41:52	3	367206	296656	65388	51803	1.24	AVB/AVV	
	PCB 159 (BZ)	42:42	42:44	-2	518284	395706	96896	67949	1.31	ABV/ABV	
	PCB 162 (BZ)	43:00	43:01	-1	510497	408993	93849	82583	1.25	AVV/AVV	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/07 11:53	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	PCB 167 (BZ)	43:29	43:30	-1	527433	415814	102891	77392	1.27	ABB/ABB	
	PCB 156 (BZ)	44:46	44:40	6	1022699	802567	102731	82228	1.27	ABB/ABB	DM
	PCB 169 (BZ)	47:55	47:52	3	523164	407980	86473	70194	1.28	ABV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	173	138	69	55	1.25	/	
	13C12-PCB 155	32:05	32:09	-4	812636	622159	167101	127141	1.31	ABV/ABV	M
	13C12-PCB 153	39:11	39:13	-2	386367	299254	76281	57781	1.29	ABV/ABV	
	13C12-PCB 138	40:32	40:31	1	777457	604063	151205	113649	1.29	ABV/ABV	
	13C12-PCB 167	43:28	43:27	1	1005967	780286	185577	144287	1.29	AVV/ABV	
	13C12-PCB 156	44:45	44:37	8	2023286	1562628	204062	154664	1.29	AVV/ABV	M
	13C12-PCB 169	47:54	47:51	3	921209	710959	158532	123629	1.30	ABV/ABV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	230	303	92	121	0.76 *	/	
	PCB 188 (BZ)	37:50	37:52	-2	428336	403609	87945	83508	1.06	ABB/ABV	
	PCB 179 (BZ)	38:20	38:20	0	409217	385931	80756	77459	1.06	ABV/ABV	
	PCB 184 (BZ)	38:40	38:44	-4	404188	365911	82265	72085	1.10	AVV/AVV	M
	PCB 176 (BZ)	39:10	39:12	-2	420169	396648	87415	78597	1.06	ABV/AVV	
	PCB 186 (BZ)	39:39	39:39	0	406291	388772	80603	81438	1.05	ABV/AVV	
	PCB 178 (BZ)	40:55	40:57	-2	289620	275838	57268	54461	1.05	ABV/ABV	
	PCB 175 (BZ)	41:31	41:34	-3	306553	294259	61115	61032	1.04	ABV/ABV	
	PCB 187 (BZ)	41:48	41:50	-2	339519	329131	65978	65180	1.03	AVV/AVV	
	PCB 182 (BZ)	41:58	42:01	-3	337845	330861	68396	65210	1.02	AVB/AVB	
	PCB 183 (BZ)	42:23	42:26	-3	328217	303310	68821	60703	1.08	ABV/ABV	
	PCB 185 (BZ)	42:34	42:35	-1	322456	296012	62495	56988	1.09	AVV/AVV	
	PCB 174 (BZ)	42:44	42:45	-1	317608	281963	61423	54490	1.13	AVV/AVB	
	PCB 177 (BZ)	43:11	43:11	0	299284	272963	58471	53455	1.10	ABV/ABV	
	PCB 181 (BZ)	43:30	43:31	-1	315848	302318	65220	60580	1.04	AVV/AVV	
	PCB 173 (BZ)	43:48	43:47	1	575949	539252	110825	107948	1.07	AVB/AVB	
	PCB 172 (BZ)	45:20	45:22	-2	289236	263228	55185	49911	1.10	ABV/AVV	
	PCB 192 (BZ)	45:36	45:36	0	393050	378532	77884	73975	1.04	AVV/AVB	
	PCB 193 (BZ)	45:57	45:55	2	755199	732670	117228	112500	1.03	AVV/ABV	
	PCB 191 (BZ)	46:20	46:21	-1	424540	402311	80546	74606	1.06	AVB/AVB	
	PCB 170 (BZ)	47:19	47:19	0	284025	272127	52879	51753	1.04	ABB/ABV	
	PCB 190 (BZ)	47:48	47:47	1	433911	410200	76108	74253	1.06	ABB/ABV	
	PCB 189 (BZ)	50:22	50:20	2	437056	441480	79403	80340	0.99	ABV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	148	143	59	57	1.04	/	
	13C12-PCB 188	37:49	37:51	-2	845075	809684	169011	160025	1.04	ABV/ABV	
	13C12-PCB 178	40:53	40:55	-2	272046	268117	57233	55421	1.01	ABV/ABV	
	13C12-PCB 180	45:57	45:57	0	690330	628964	133034	121976	1.10	ABV/ABV	
	13C12-PCB 170	47:18	47:17	1	552804	536057	106318	103993	1.03	ABV/ABV	
	13C12-PCB 189	50:20	50:18	2	909917	872034	161505	153246	1.04	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:71	Prep Batch		Lot No	
Data File	/20071015s1/a071015s1.	Prep Date		SDG No	
Analysis ID	99756	Prep Exp Date		Date Received	
Analysis Date	10/15/07 11:53	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

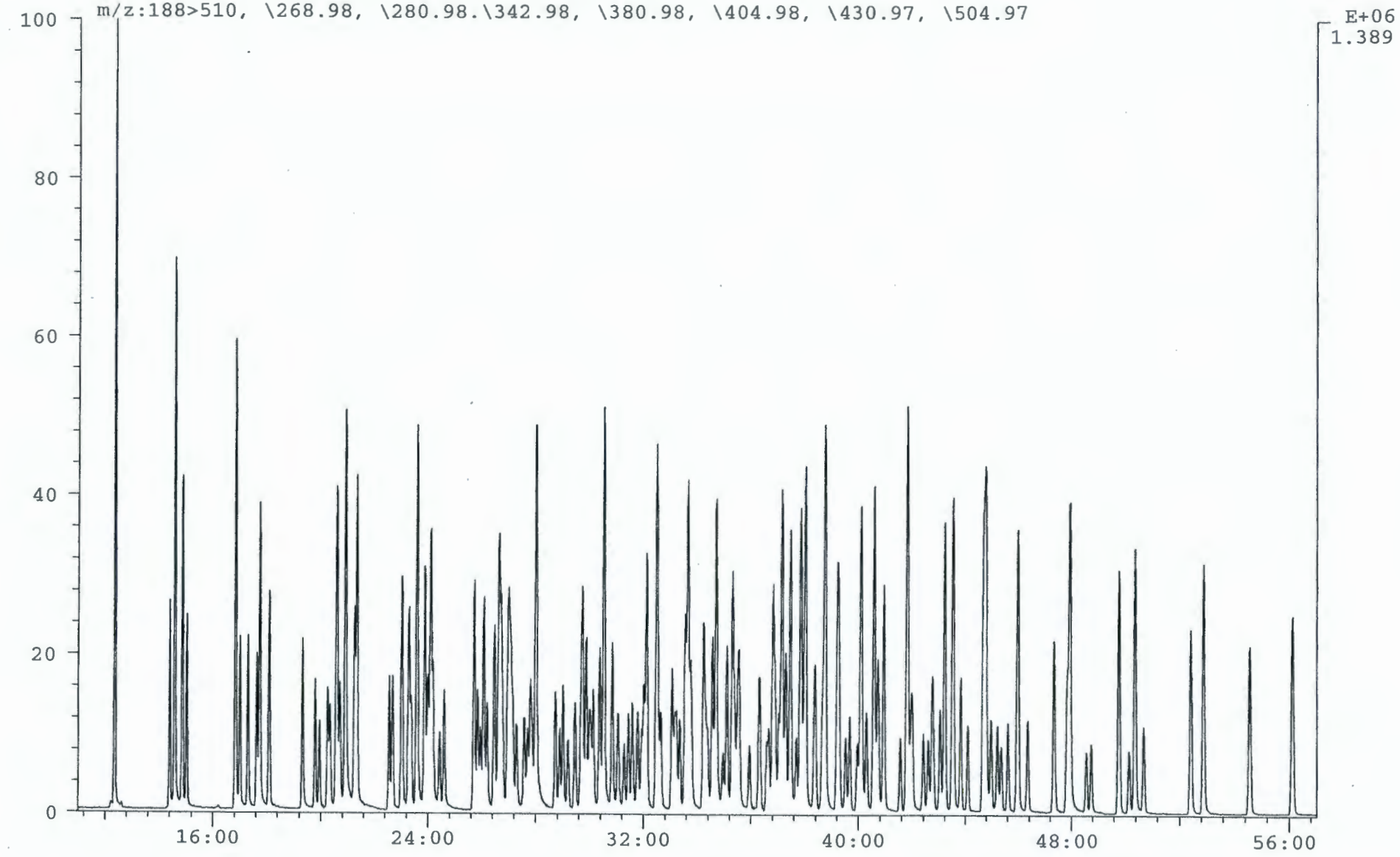
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**	
	Noise	00:00	00:00	0	198	205	79	82	0.96	/
	PCB 202 (BZ)	43:11	43:12	-1	310944	347044	59791	69726	0.90	ABV/ABV
	PCB 200 (BZ)/201 (IUPAC	44:05	44:08	-3	352156	397707	69536	76857	0.89	ABB/ABB
	PCB 204 (BZ)	44:43	44:46	-3	312482	366617	61031	72196	0.85	ABV/ABV
	PCB 197 (BZ)	44:58	45:00	-2	348119	398647	69681	76794	0.87	AVV/AVV
	PCB 199 (BZ)/200 (IUPAC	45:11	45:12	-1	342275	382075	65893	77525	0.90	AVB/AVB
	PCB 198 (BZ)	47:54	47:51	3	481921	541247	58622	62740	0.89	ABV/ABV
	PCB 196 (BZ)	48:32	48:34	-2	234031	270276	46014	52570	0.87	ABV/ABV
	PCB 203 (BZ)	48:43	48:44	-1	270108	311341	52630	61551	0.87	AVB/AVB
	PCB 195 (BZ)	50:07	50:04	3	271149	308546	50492	55585	0.88	AVV/AVV
	PCB 194 (BZ)	52:25	52:23	2	294928	325524	56410	61145	0.91	ABV/ABV
	PCB 205 (BZ)	52:52	52:51	1	354377	394843	68060	78671	0.90	ABV/AVV
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**	
	Noise	00:00	00:00	0	93	103	37	41	0.90	/
	13C12-PCB 202	43:10	43:11	-1	682131	733248	136640	145459	0.93	ABV/ABV
	13C12-PCB 194	52:22	52:22	0	534313	583097	99971	108041	0.92	ABV/ABV
	13C12-PCB 205	52:51	52:49	2	774576	864754	145574	163175	0.90	AVV/AVV
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**	
	Noise	00:00	00:00	0	108	145	43	58	0.74	/
	PCB 208 (BZ)	49:46	49:47	-1	311038	398941	60876	79258	0.78	ABV/ABV
	PCB 207 (BZ)	50:40	50:43	-3	318874	412148	62993	79225	0.77	ABV/ABV
	PCB 206 (BZ)	54:32	54:32	0	222258	288766	42168	54573	0.77	ABV/ABV
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**	
	Noise	00:00	00:00	0	113	105	45	42	1.07 *	/
	13C12-PCB 208	49:45	49:46	-1	657767	825507	130404	164095	0.80	ABV/ABV
	13C12-PCB 206	54:31	54:31	0	434380	569112	83389	110161	0.76	ABV/ABV
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**	
	Noise	00:00	00:00	0	85	90	34	36	0.94 *	/
	PCB 209 (BZ)	56:06	56:06	0	247734	368317	44523	67937	0.67	ABV/ABV
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**	
	Noise	00:00	00:00	0	95	163	38	65	0.58 *	/
	13C12-PCB 209	56:04	56:05	-1	506714	728664	92865	131635	0.70	ABV/ABV

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: a071015s1 15-Oct-07 Elapse: 56:12 2554
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2 > 2600 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

Int DCG 10-15-07
CGI DCS 10-15-07
QCPMP 10-15-07



2803

-16.3 V SCAN AUTOTUNE TUNE R = 10 106 121 947 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.86 mA -47.7 V

EI POS u electric

U(a) 4784 V U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	192.989	amu
Virt. Mass	(VMASS)	192.989	amu
Link Mass	(LMASS)	192.989	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

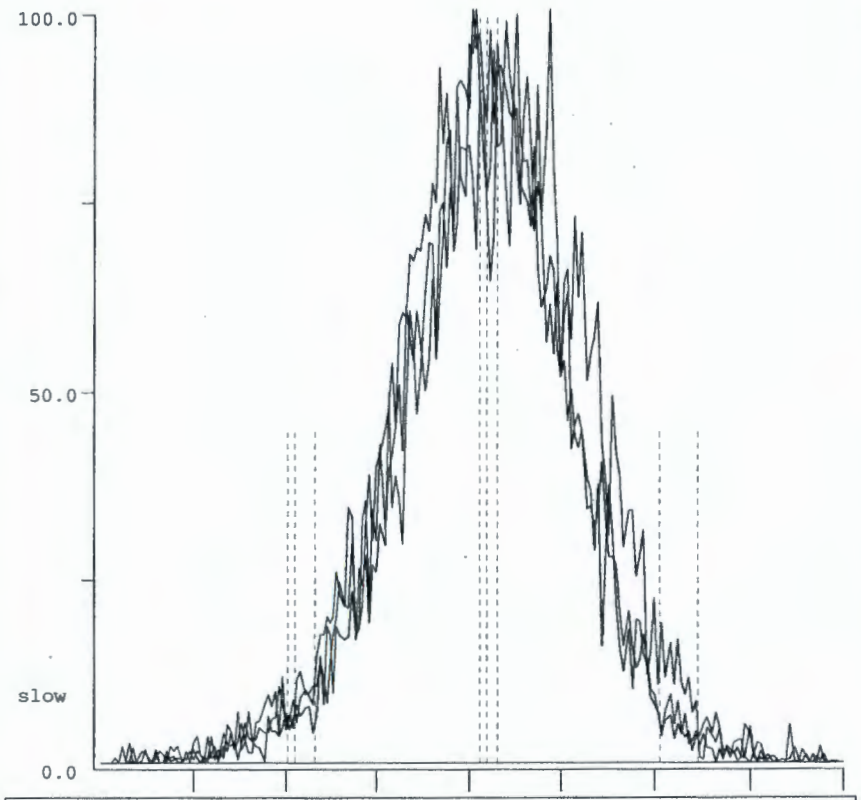
TUNE DESCRIPTOR
tune2
RESTORE

192.970 192.989 193.00

<> >< << >> ^ v C LOCK UNLK

TUNE:

Peak Register Display Copy result to ULIST



REG 1/2: 230.985282 REG 1/3: 280.983299 REG 2/3: 280.983718

MASS	:	192.98974	230.98638	280.98464
REF MASS	:	192.98882	230.98563	280.98243
PEAK WIDTH [ppm]	:	93.95119	98.95188	111.03096

Active Register: 2 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 11:45:26 2007 mat95 MAT 95

2804

-16.3 V SCAN AUTOTUNE TUNE R = 10 106 121 947 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.90 mA -47.7 V

EI POS electric

U(a) 4784 V u U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	192.989	amu
Virt. Mass	(VMASS)	192.989	amu
Link Mass	(LMASS)	192.989	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR tune2 RESTORE

192.970 192.989 193.00

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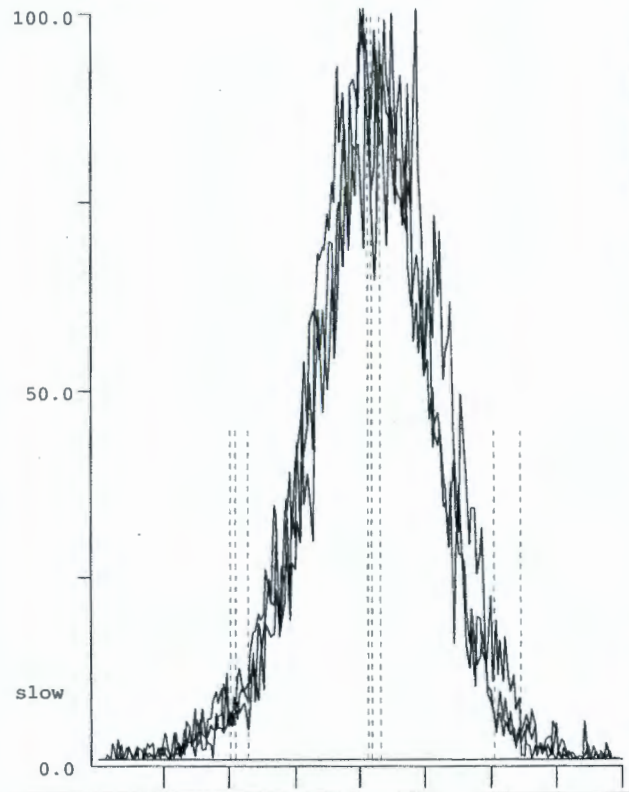
TUNE:

Diagnostic Display Copy result to ULIST



R1	pm	192.98974
	rm	192.98882
	fm	192.96953
	lm	193.00810
	pc	7969138.18
	pl	7969515.01
	pr	7968766.30
	b1	0.00
	v	124647.00

R2	pm	230.98638
	rm	230.98563
	fm	230.96256
	lm	231.00874
	pc	6658236.26
	pl	6658573.61
	pr	6657914.77
	b1	0.00
	v	214991.00

R3	pm	280.98464
	rm	280.98243
	fm	280.95432
	lm	281.01053
	pc	5473473.29
	pl	5473787.51
	pr	5473179.79
	b1	0.00
	v	119375.00

RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1968843	1.4559563	1.2164554
PC+DELTA	1.1968843	1.4559563	1.2164554
PC+DELTA/RM	0.9999985	1.0000031	1.0000046
REF MASS	1.1968860	1.4559519	1.2164499

Active Register: 2 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 11:45:34 2007 mat95 MAT 95

2805

-16.3 V SCAN AUTOTUNE TUNE R = 10 106 59 519 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.90 mA -47.7 V

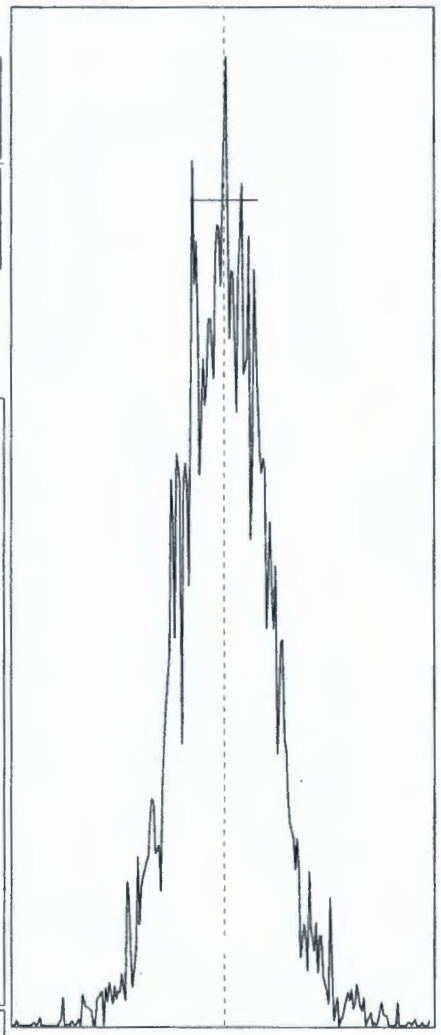
EI POS u electric

U(a) 4784 V U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	268.982	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR
tune2
RESTORE



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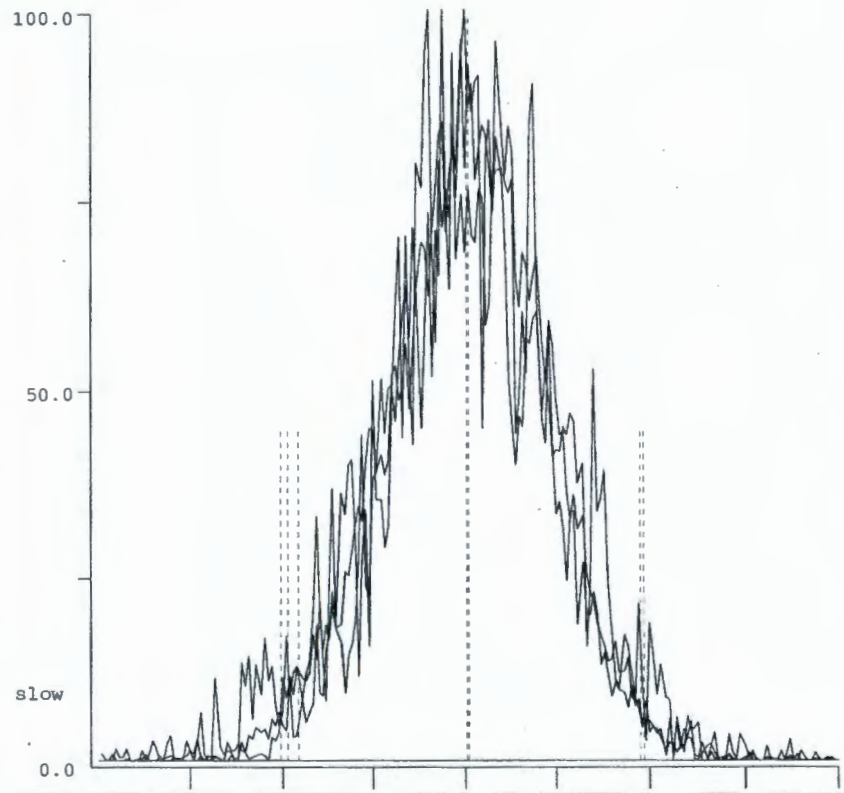
TUNE:

Peak Register Display Copy result to ULIST



REG 1/2: 292.982370 REG 1/3: 380.976186 REG 2/3: 380.976269

MASS	:	268.98262	292.98258	380.97646
REF MASS	:	268.98243	292.98243	380.97605
PEAK WIDTH [ppm]	:	92.95133	95.98205	98.97341

Active Register: 2 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 11:46:25 2007 mat95 MAT 95

2806

-16.3 V SCAN AUTOTUNE TUNE R = 10 106 59 519 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.94 mA -47.7 V

EI POS electric

U(a) 4784 V u U(esa) 763.8 V

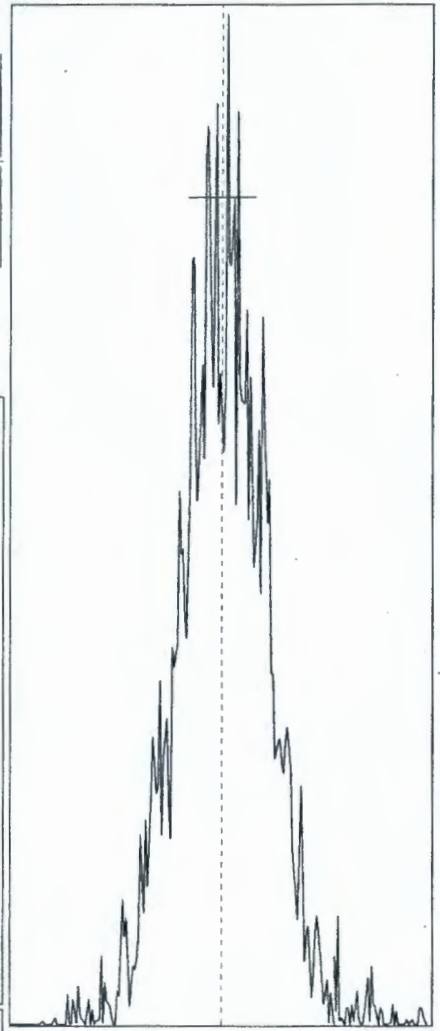
Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	268.982	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR tune2

RESTORE

TUNE:

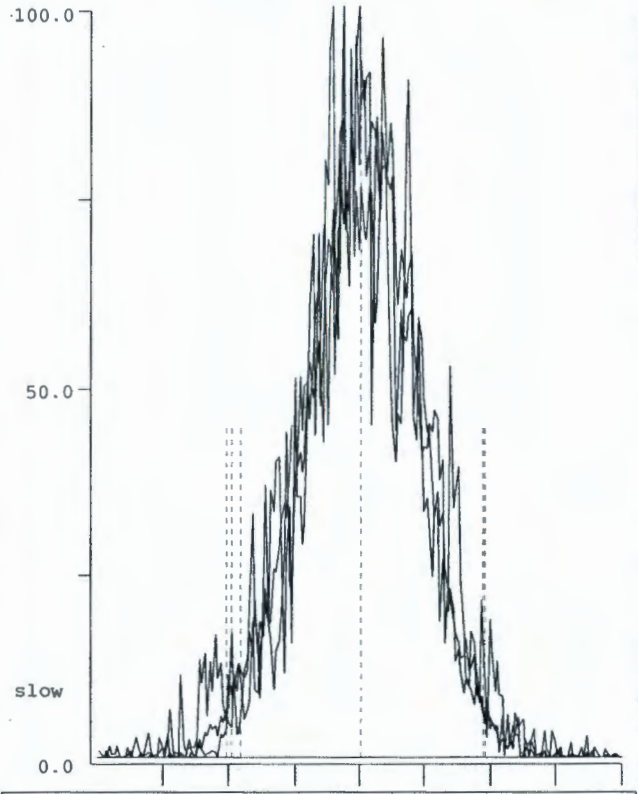


268.956 268.982 269.00

<> >> << >> ^ v C V LOCK UNLK

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0892249	1.4163608	1.3003383
PC+DELTA	1.0892249	1.4163608	1.3003383
PC+DELTA/RM	0.9999998	1.0000004	1.0000006
REF MASS	1.0892252	1.4163603	1.3003375

REGISTER 1		
pm	268.98262
rm	268.98243
fm	268.95554
lm	269.00930
pc	7969170.39
pl	7969538.91
pr	7968798.16
bl	0.00
v	78277.00

REGISTER 2	
pm	292.98258
rm	292.98243
fm	292.95315
lm	293.01173
pc	7316368.02
pl	7316726.28
pr	7316024.04
bl	0.00
v	283509.00

REGISTER 3	
pm	380.97646
rm	380.97605
fm	380.93796
lm	381.01413
pc	5626511.36
pl	5626801.56
pr	5626244.69
bl	0.00
v	50801.00

Active Register: 2 0.05 1.00

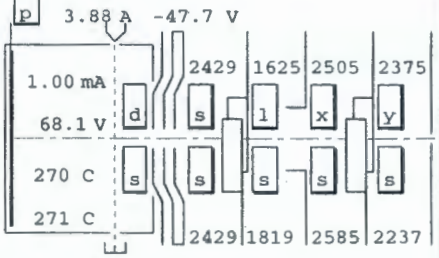
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 11:46:34 2007 mat95 MAT 95

2807

-16.3 V SCAN AUTOTUNE TUNE R = 10 106 104 728 uV



EI POS electric

U(a) 4784 V U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	342.979	amu
Virt. Mass	(VMASS)	342.979	amu
Link Mass	(LMASS)	342.979	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

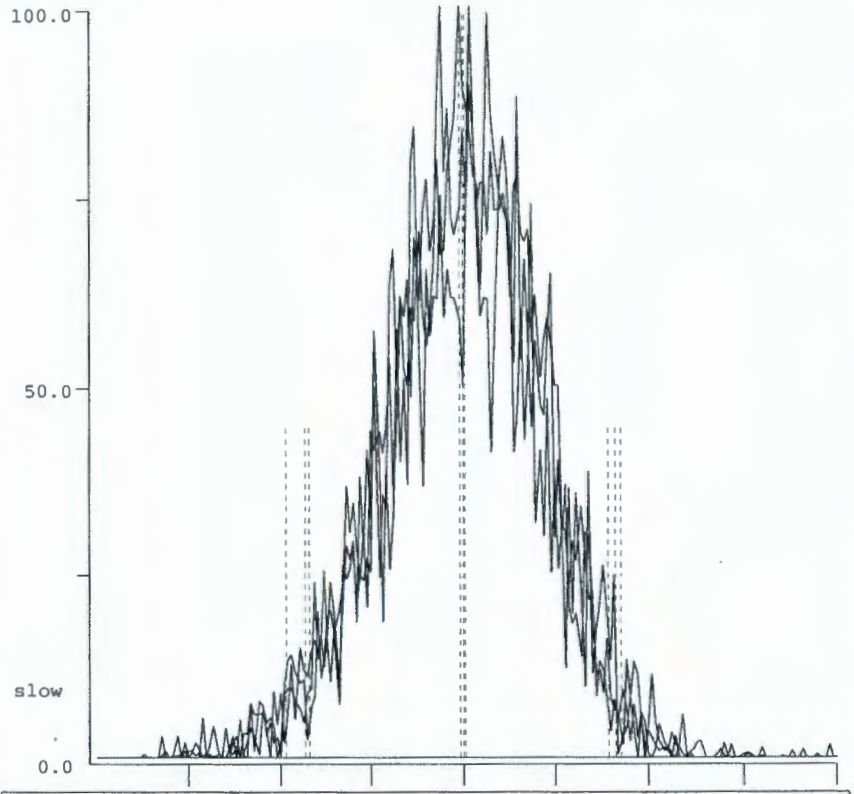
VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR
tune2
RESTORE

<> >< << >> ^ v C W LOCK UNLK

TUNE: _

Peak Register Display Copy result to ULIST



REG 1/2: 380.975620 REG 1/3: 430.973031 REG 2/3: 430.973512

MASS	:	342.97935	380.97574	430.97316
REF MASS	:	342.97924	380.97605	430.97285
PEAK WIDTH [ppm]:		82.95653	91.00796	83.97258

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK:

2808

-16.3 V SCAN AUTOTUNE TUNE R = 10 106 104 728 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s 1 x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.94 mA -47.7 V

EI POS electric

U(a) 4784 V u U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	.
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	342.979	amu
Virt. Mass	(VMASS)	342.979	amu
Link Mass	(LMASS)	342.979	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

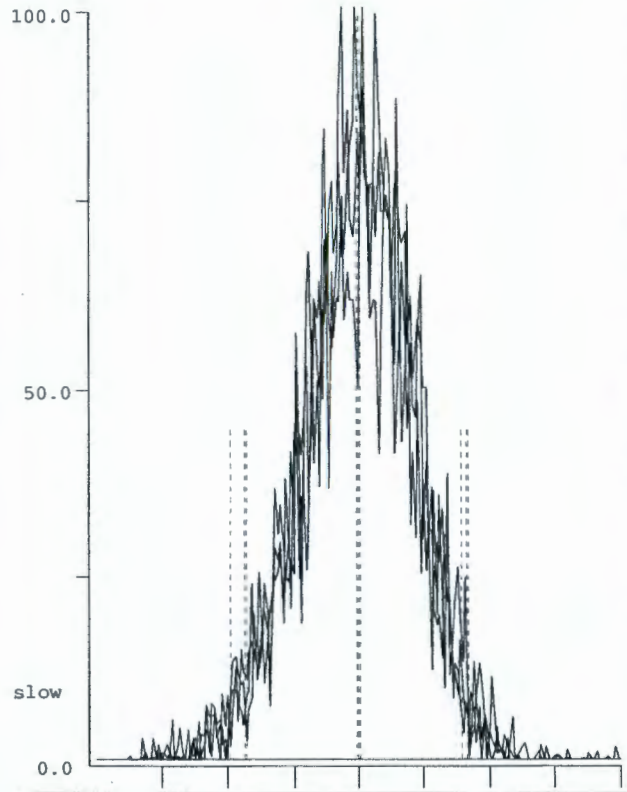
TUNE DESCRIPTOR tune2 RESTORE

342.945 342.979 343.01

<> >< << >> ^ v C V LOCK UNLK

TUNE:

Diagnostic Display Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1107833	1.2565572	1.1312352
PC+DELTA	1.1107833	1.2565572	1.1312352
PC+DELTA/RM	0.9999989	1.0000004	1.0000015
REF MASS	1.1107846	1.2565567	1.1312335

REGISTER 1		
pm	342.97935
rm	342.97924
fm	342.94494
lm	343.01350
pc	7969173.62
pl	7969522.98
pr	7968861.88
bl	0.00
v	115584.00

REGISTER 2	
pm	380.97574
rm	380.97605
fm	380.93792
lm	381.01412
pc	7174372.75
pl	7174715.49
pr	7174062.56
bl	0.00
v	70496.00

REGISTER 3	
pm	430.97316
rm	430.97285
fm	430.92974
lm	431.01591
pc	6342069.94
pl	6342344.45
pr	6341811.89
bl	0.00
v	42227.00

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 11:47:12 2007 mat95 MAT 95

2809

-16.3 V SCAN AUTOTUNE TUNE R = 10 106 39 736 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s i x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.94 mA -47.7 V

EI POS electric

U(a) 4784 V u U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	404.976	amu
Virt. Mass	(VMASS)	404.976	amu
Link Mass	(LMASS)	404.976	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR tune2 RESTORE

404.936 404.976 405.01

<> >< << >> ^ v C V LOCK UNLK

TUNE:

Peak Register Display Copy result to ULIST

100.0 50.0 slow 0.0

REG 1/2: 442.972419 REG 1/3: 530.966989 REG 2/3: 530.967506

MASS	:	404.97662	442.97305	530.96774
REF MASS	:	404.97604	442.97285	530.96646
PEAK WIDTH [ppm]	:	75.96028	76.99364	63.01871

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 11:47:54 2007 mat95 MAT 95

2810

-16.3 V SCAN AUTOTUNE TUNE R = 10 106 39 736 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.90 mA -47.7 V

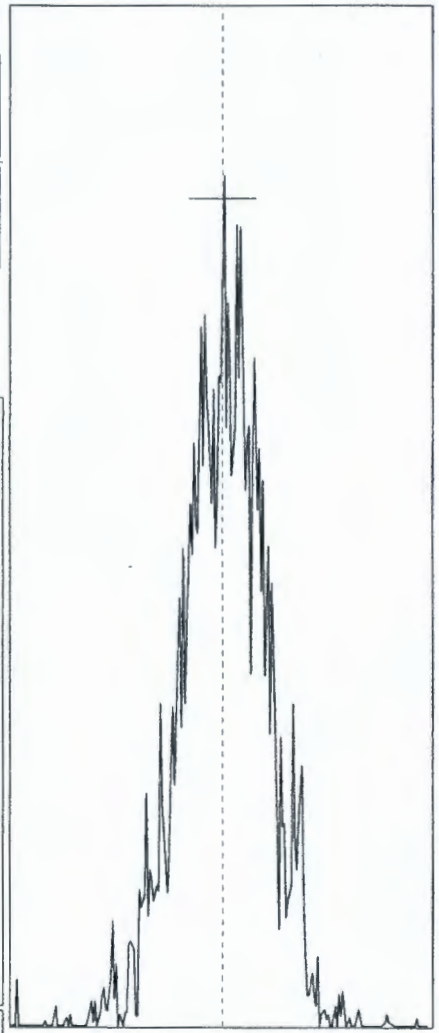
EI POS u electric

U(a) 4784 V U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	404.976	amu
Virt. Mass	(VMASS)	404.976	amu
Link Mass	(LMASS)	404.976	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

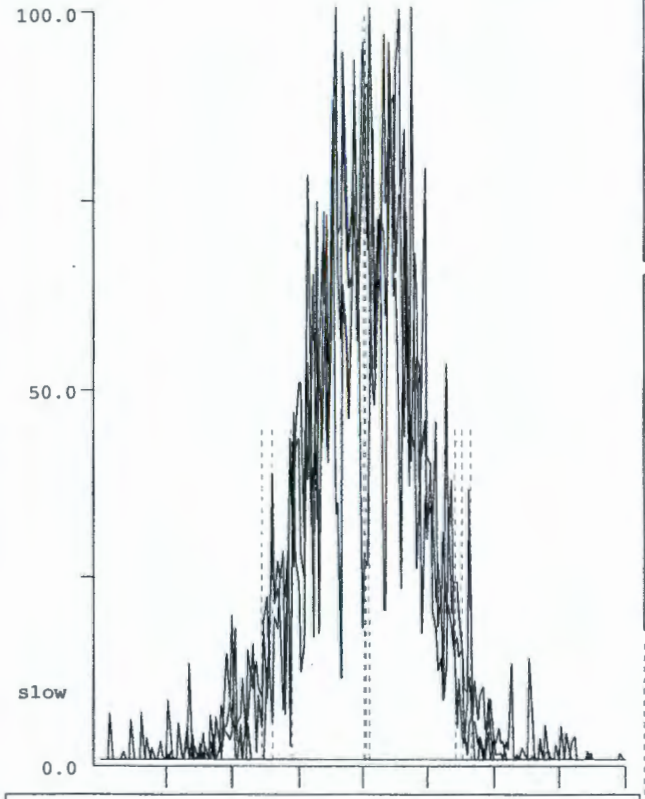
TUNE DESCRIPTOR tune2 RESTORE



<> >> << >> ^ v C LOCK UNLK

TUNE:

Diagnostic Display Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0938238	1.3111072	1.1986457
PC+DELTA	1.0938238	1.3111072	1.1986457
PC+DELTA/RM	0.9999990	1.0000010	1.0000020
REF MASS	1.0938248	1.3111059	1.1986434

REGIST ER 1		
	pm	404.97662
	rm	404.97604
	fm	404.93555
	lm	405.01651
	pc	7969164.79
	pl	7969451.29
	pr	7968845.95
	bl	0.00
	v	41762.00

REGIST ER 2		
	pm	442.97305
	rm	442.97285
	fm	442.92856
	lm	443.01715
	pc	7285602.21
	pl	7285885.97
	pr	7285325.03
	bl	0.00
	v	46666.00

REGIST ER 3		
	pm	530.96774
	rm	530.96646
	fm	530.91332
	lm	531.01954
	pc	6078194.89
	pl	6078377.20
	pr	6077994.16
	bl	0.00
	v	14487.00

Active Register: 3 0.05 1.00

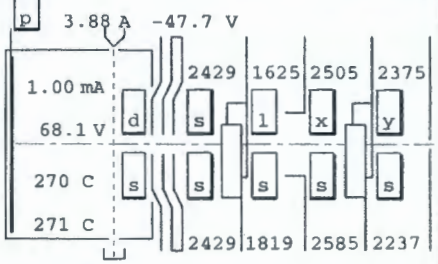
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAUSE

PEAK: _

Mon Oct 15 11:48:04 2007 mat95 MAT 95

2811

-16.3 V SCAN AUTOTUNE TUNE R = 10 258 167 236 uV



0.90 mA -47.7 V

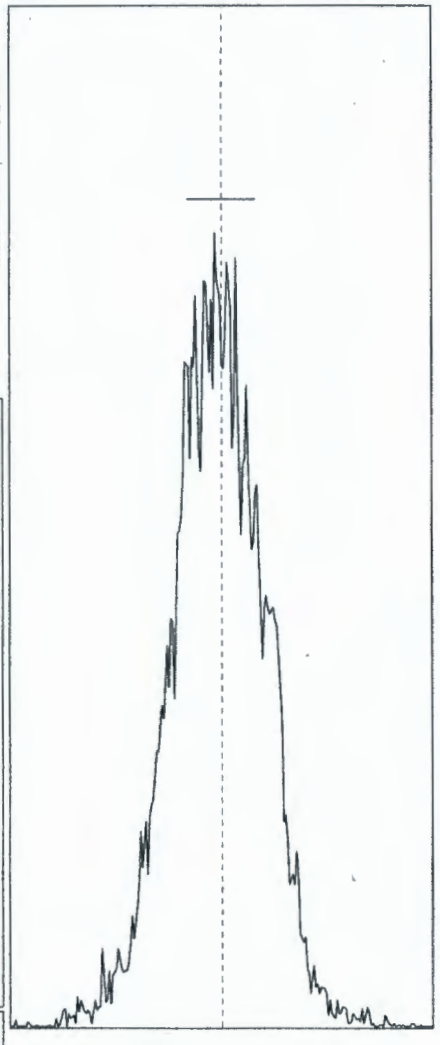
EI POS u electric

U(a) 4784 V U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	192.989	amu
Virt. Mass	(VMASS)	192.989	amu
Link Mass	(LMASS)	192.989	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR
tune2
SAVE



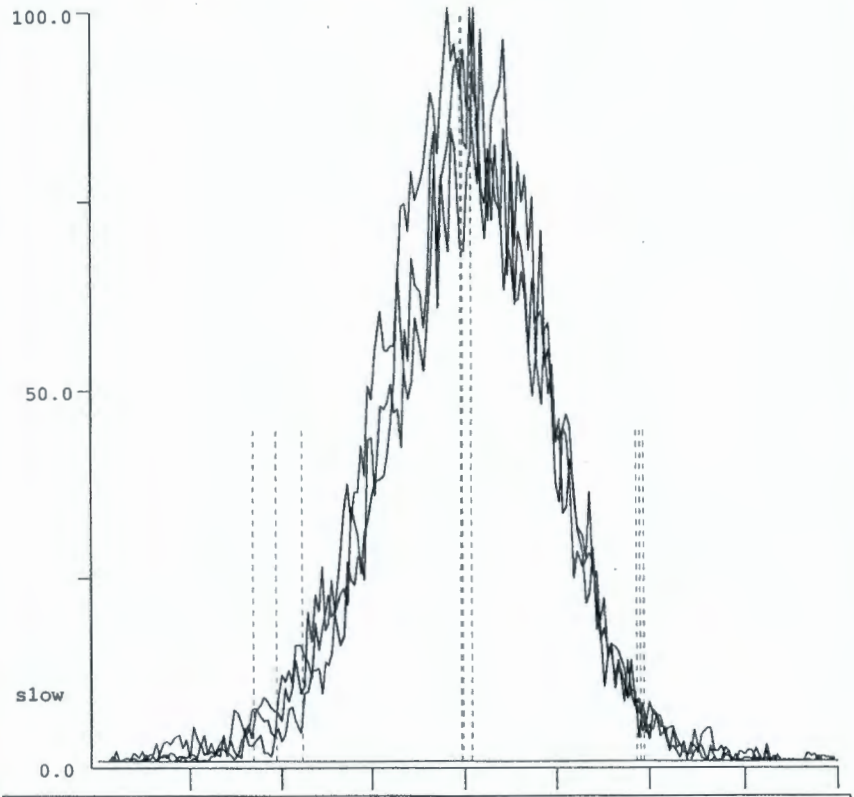
192.970 192.989 193.00

<> >< << >> ^ v C LOCK UNLK

TUNE: _

Peak Register Display

Copy result to ULIST



REG 1/2: 230.984985 REG 1/3: 280.981752 REG 2/3: 280.982533

MASS	:	192.98919	230.98542	280.98228
REF MASS	:	192.98882	230.98563	280.98243
PEAK WIDTH [ppm]	:	90.95248	99.95098	105.02841

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK:

2812

-16.3 V SCAN AUTOTUNE TUNE R = 10 258 167 236 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.94 mA -47.7 V

EI POS electric

U(a) 4781 V u U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	192.989	amu
Virt. Mass	(VMASS)	192.989	amu
Link Mass	(LMASS)	192.989	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR
tune2
SAVE

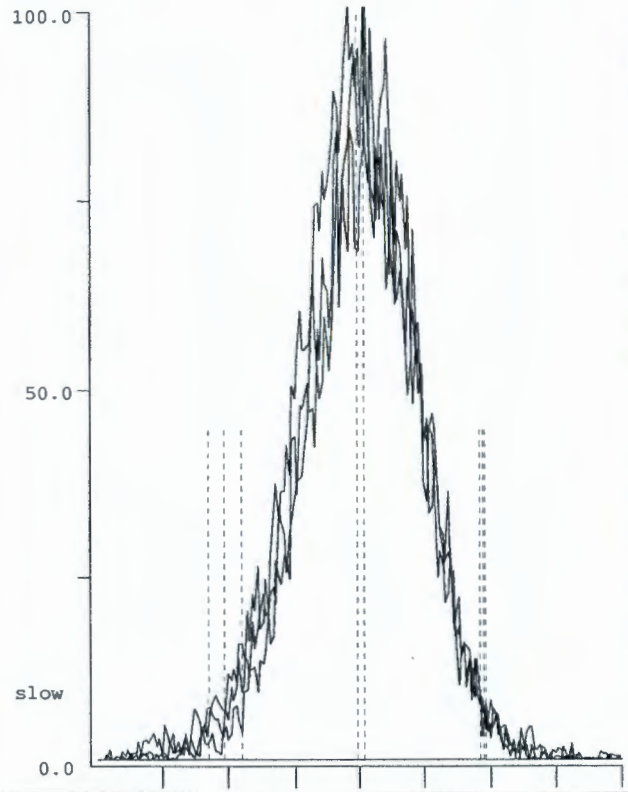
TUNE:

192.970 192.989 193.00

<> >< << >> ^ v C V LOCK UNLK

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1968827	1.4559483	1.2164503
PC+DELTA	1.1968827	1.4559483	1.2164503
PC+DELTA/RM	0.9999972	0.9999976	1.0000004
REF MASS	1.1968860	1.4559519	1.2164499

REG 1		
pm	192.98919
rm	192.98882
fm	192.96953
lm	193.00810
pc	7969161.05
pl	7969530.94
pr	7968806.13
bl	0.00
v	174975.00

REG 2		
pm	230.98542
rm	230.98563
fm	230.96253
lm	231.00870
pc	6658263.93
pl	6658601.23
pr	6657935.73
bl	0.00
v	319142.00

REG 3		
pm	280.98228
rm	280.98243
fm	280.95432
lm	281.01053
pc	5473519.13
pl	5473831.31
pr	5473256.44
bl	0.00
v	214350.00

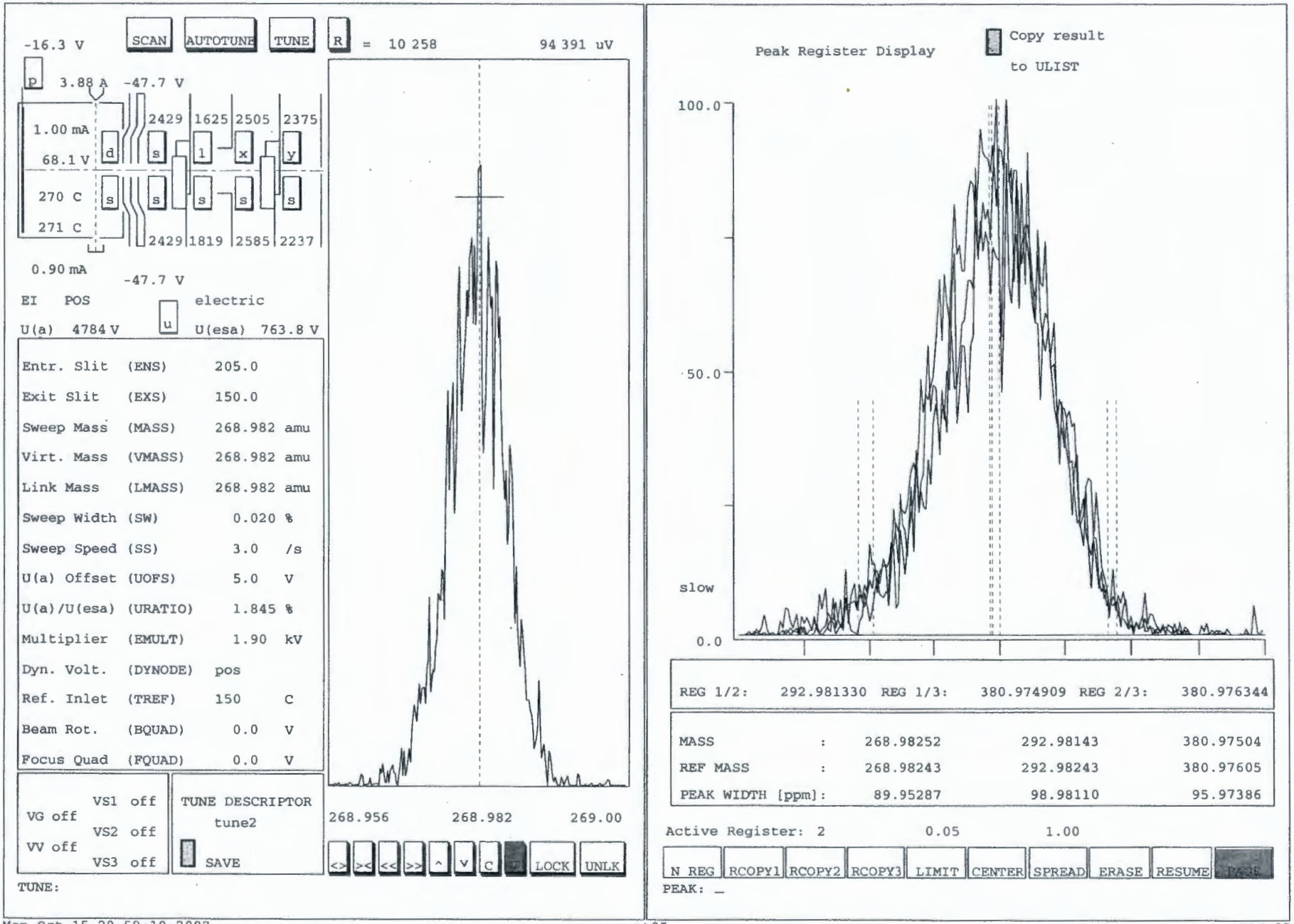
Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 20:57:25 2007 mat95 MAT 95

2813


-16.3 V
SCAN
AUTOTUNE
TUNE
R
= 10 258
94 391 uV
p
3.88 A
-47.7 V
1.00 mA
68.1 V
2429
1625
2505
2375
d
s
l
x
y
270 C
271 C
2429
1819
2585
2237
0.90 mA
-47.7 V
EI POS
electric
U(a) 4784 V
u
U(esa) 763.8 V
Entr. Slit (ENS) 205.0
Exit Slit (EXS) 150.0
Sweep Mass (MASS) 268.982 amu
Virt. Mass (VMASS) 268.982 amu
Link Mass (LMASS) 268.982 amu
Sweep Width (SW) 0.020 %
Sweep Speed (SS) 3.0 /s
U(a) Offset (UOFS) 5.0 V
U(a)/U(esa) (URATIO) 1.845 %
Multiplier (EMULT) 1.90 kV
Dyn. Volt. (DYNODE) pos
Ref. Inlet (TREF) 150 C
Beam Rot. (BQUAD) 0.0 V
Focus Quad (FQUAD) 0.0 V
VG off
VV off
VS1 off
VS2 off
VS3 off
TUNE DESCRIPTOR
tune2
SAVE
268.956
268.982
269.00
LOCK
UNLK
TUNE:
Peak Register Display
Copy result
to ULIST
100.0
50.0
slow
0.0
REG 1/2: 292.981330 REG 1/3: 380.974909 REG 2/3: 380.976344
MASS : 268.98252 292.98143 380.97504
REF MASS : 268.98243 292.98243 380.97605
PEAK WIDTH [ppm]: 89.95287 98.98110 95.97386
Active Register: 2 0.05 1.00
N REG
RCOPY1
RCOPY2
RCOPY3
LIMIT
CENTER
SPREAD
ERASE
RESUME
PEAK: _
Mon Oct 15 20:59:19 2007
mat95
MAT 95

2814

-16.3 V SCAN AUTOTUNE TUNE R = 10 258 94 391 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.94 mA -47.7 V

EI POS electric

U(a) 4784 V u U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	268.982	amu
Virt. Mass	(VMASS)	268.982	amu
Link Mass	(LMASS)	268.982	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR
tune2
SAVE

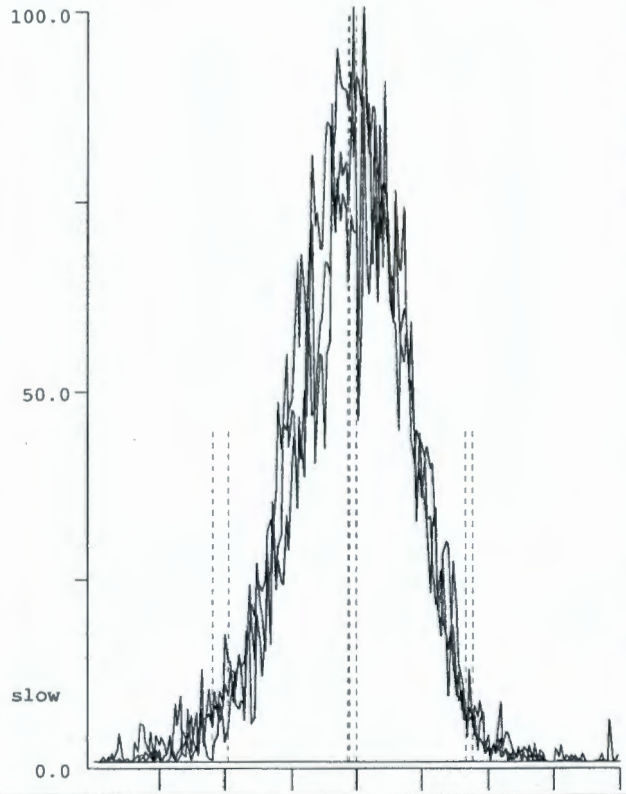
268.956 268.982 269.00

<> >< << >> ^ v C LOCK UNLK

TUNE:

Diagnostic Display

Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0892211	1.4163561	1.3003385
PC+DELTA	1.0892211	1.4163561	1.3003385
PC+DELTA/RM	0.9999962	0.9999970	1.0000008
REF MASS	1.0892252	1.4163603	1.3003375

R	pm	268.98252
E	rm	268.98243
G	fm	268.95554
I	lm	269.00930
S	pc	7969173.31
T	pl	7969562.80
E	pr	7968845.95
R	bl	0.00
1	v	96634.00

R	pm	292.98143
E	rm	292.98243
G	fm	292.95315
I	lm	293.01173
S	pc	7316396.67
T	pl	7316770.17
E	pr	7316045.98
R	bl	0.00
2	v	360104.00

R	pm	380.97504
E	rm	380.97605
G	fm	380.93796
I	lm	381.01413
S	pc	5626532.28
T	pl	5626824.06
E	pr	5626284.06
R	bl	0.00
3	v	78629.00

Active Register: 2 0.05 1.00

N_REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 20:59:28 2007 mat95 MAT 95

2815

-16.3 V SCAN AUTOTUNE TUNE R = 10 258 146 162 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.90 mA -47.7 V

EI POS electric

U(a) 4784 V u U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	342.979	amu
Virt. Mass	(VMASS)	342.979	amu
Link Mass	(LMASS)	342.979	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

TUNE DESCRIPTOR
tune2
SAVE

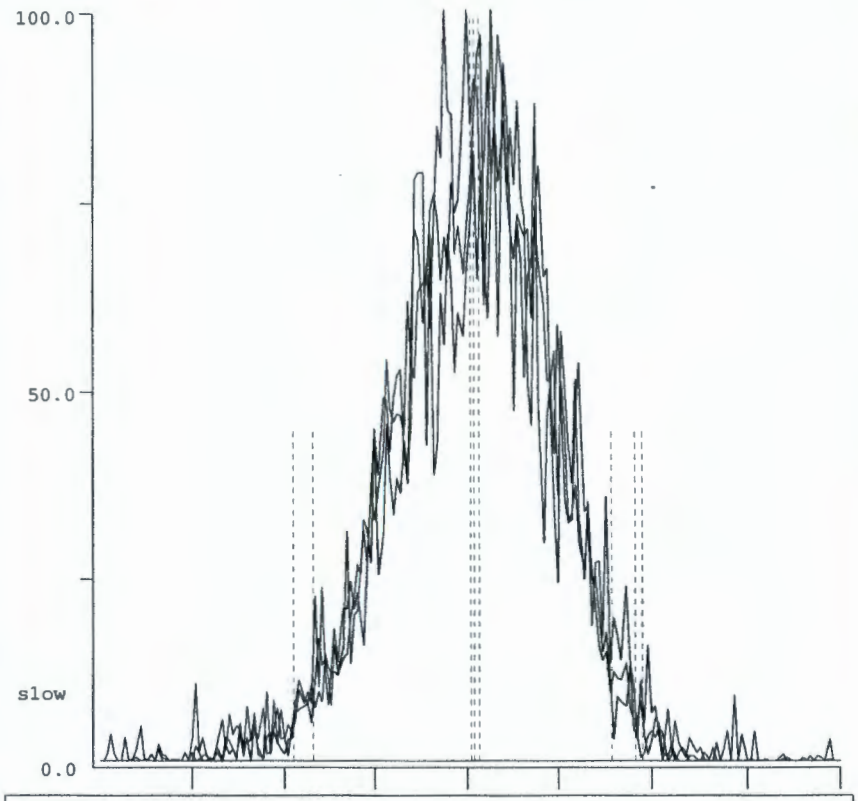
342.945 342.979 343.01

<> >< << >> ^ v C V LOCK UNLK

TUNE: _

Peak Register Display

Copy result to ULIST



REG 1/2: 380.975688 REG 1/3: 430.973472 REG 2/3: 430.973876

MASS	:	342.97986	380.97638	430.97425
REF MASS	:	342.97924	380.97605	430.97285
PEAK WIDTH [ppm]	:	94.95039	87.00775	87.97150

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK:

Mon Oct 15 20:59:56 2007 mat95 MAT 95

2816

-16.3 V SCAN AUTOTUNE TUNE R = 10 258 146 162 uV

p 3.88 A -47.7 V

1.00 mA 68.1 V 270 C 271 C

d s s s s s s s s s s s s s s s

2429 1625 2505 2375

2429 1819 2585 2237

0.94 mA -47.7 V

EI POS electric

U(a) 4784 V u U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	342.979	amu
Virt. Mass	(VMASS)	342.979	amu
Link Mass	(LMASS)	342.979	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR tune2 SAVE

342.945 342.979 343.01

<> >< << >> ^ v C LOCK UNLK

TUNE:

Diagnostic Display

Copy result to ULIST

100.0 50.0 slow 0.0

R	pm	342.97986
E	rm	342.97924
G	fm	342.94494
I	lm	343.01350
S	pc	7969161.69
T	pl	7969554.84
E	pr	7968798.16
R	bl	0.00
1	v	149166.00

R	pm	380.97638
E	rm	380.97605
G	fm	380.93792
I	lm	381.01412
S	pc	7174360.72
T	pl	7174708.31
E	pr	7174084.09
R	bl	0.00
2	v	88621.00

R	pm	430.97425
E	rm	430.97285
G	fm	430.92974
I	lm	431.01591
S	pc	6342053.95
T	pl	6342344.45
E	pr	6341786.53
R	bl	0.00
3	v	53285.00

RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.1107835	1.2565585	1.1312362
PC+DELTA	1.1107835	1.2565585	1.1312362
PC+DELTA/RM	0.9999991	1.0000014	1.0000024
REF MASS	1.1107846	1.2565567	1.1312335

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAUSE

PEAK: _

Mon Oct 15 21:00:06 2007 mat95 MAT 95

2817

-16.3 V SCAN AUTOTUNE TUNE R = 10 258 63 814 uV

p 3.88 A -47.7 V

1.00 mA 68.1 V 270 C 271 C

d s l x y

2429 1625 2505 2375

2429 1819 2585 2237

0.90 mA -47.7 V

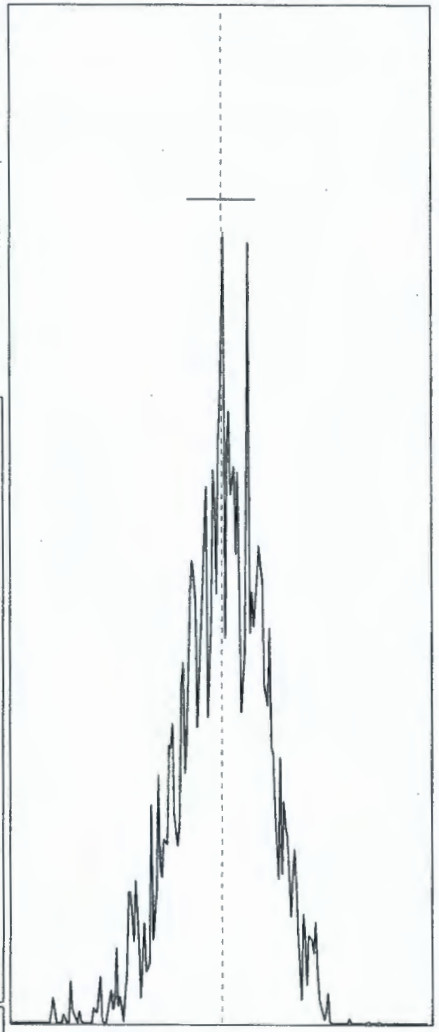
EI POS electric

U(a) 4784 V u U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	404.976	amu
Virt. Mass	(VMASS)	404.976	amu
Link Mass	(LMASS)	404.976	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad	(FQUAD)	0.0	V

VG off VS1 off VS2 off VS3 off VV off

TUNE DESCRIPTOR tune2 SAVE

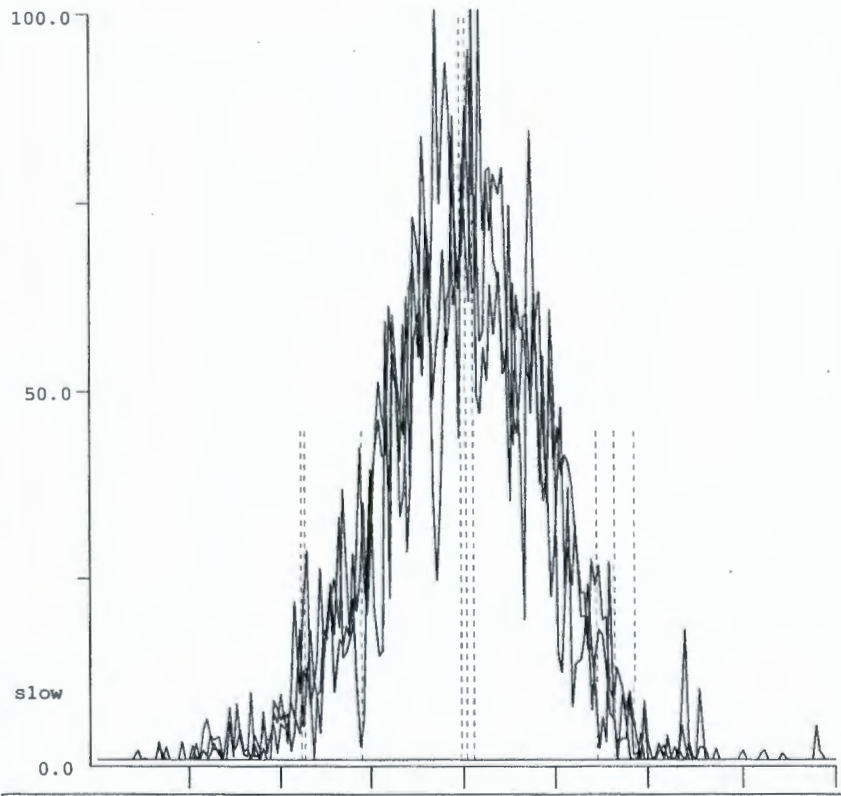


404.936 404.976 405.01

<> >>< << >> ^ v C V LOCK UNLK

TUNE: _

Peak Register Display Copy result to ULIST



REG 1/2: 442.973409 REG 1/3: 530.968251 REG 2/3: 530.967582

MASS	:	404.97589	442.97324	530.96805
REF MASS	:	404.97604	442.97285	530.96646
PEAK WIDTH [ppm]	:	85.95490	89.99260	64.01904

Active Register: 3 0.05 1.00

N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK:

Mon Oct 15 21:00:33 2007 mat95 MAT 95

2818

-16.3 V SCAN AUTOTUNE TUNE R = 10 258 63 814 uV

p 3.88 A -47.7 V

1.00 mA 2429 1625 2505 2375

68.1 V d s l x y

270 C s s s s s

271 C 2429 1819 2585 2237

0.94 mA -47.7 V

EI POS u electric

U(a) 4781 V U(esa) 763.8 V

Entr. Slit	(ENS)	205.0	
Exit Slit	(EXS)	150.0	
Sweep Mass	(MASS)	404.976	amu
Virt. Mass	(VMASS)	404.976	amu
Link Mass	(LMASS)	404.976	amu
Sweep Width	(SW)	0.020	%
Sweep Speed	(SS)	3.0	/s
U(a) Offset	(UOFS)	5.0	V
U(a)/U(esa)	(URATIO)	1.845	%
Multiplier	(EMULT)	1.90	kV
Dyn. Volt.	(DYNODE)	pos	
Ref. Inlet	(TREF)	150	C
Beam Rot.	(BQUAD)	0.0	V
Focus Quad.	(FQUAD)	0.0	V

VG off VS1 off VS2 off VV off VS3 off

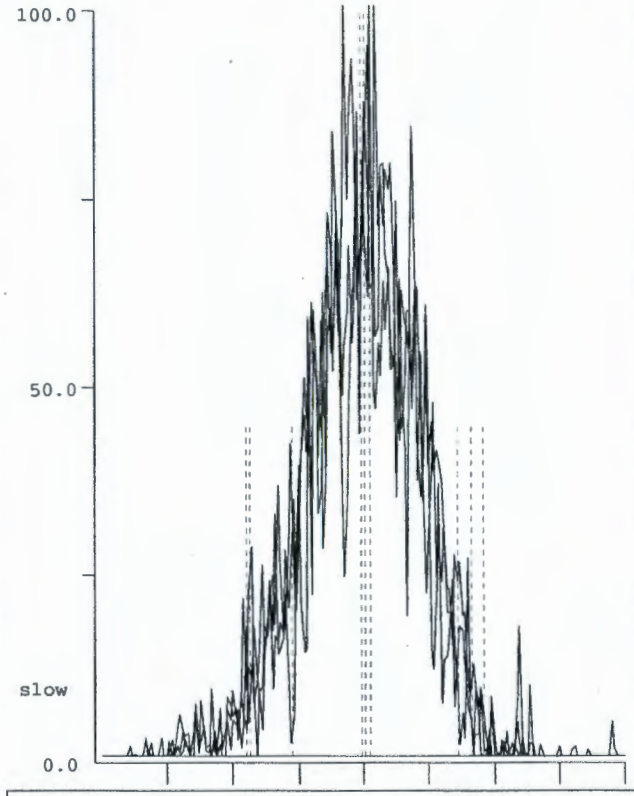
TUNE DESCRIPTOR tune2 SAVE

404.936 404.976 405.01

<> >< << >> ^ v C LOCK UNLK

TUNE:

Diagnostic Display Copy result to ULIST



RATIO	REG 1/2	REG 1/3	REG 2/3
PEAK CENTER	1.0938262	1.3111103	1.1986459
PC+DELTA	1.0938262	1.3111103	1.1986459
PC+DELTA/RM	1.0000013	1.0000034	1.0000021
REF MASS	1.0938248	1.3111059	1.1986434

REGISTER 1		
pm	404.97589
rm	404.97604
fm	404.93555
lm	405.01651
pc	7969179.10
pl	7969530.94
pr	7968845.95
bl	0.00
v	57131.00

REGISTER 2		
pm	442.97324
rm	442.97285
fm	442.92856
lm	443.01715
pc	7285599.02
pl	7285922.40
pr	7285266.75
bl	0.00
v	64030.00

REGISTER 3		
pm	530.96805
rm	530.96646
fm	530.91332
lm	531.01954
pc	6078191.35
pl	6078377.20
pr	6077988.08
bl	0.00
v	22483.00

Active Register: 3 0.05 1.00

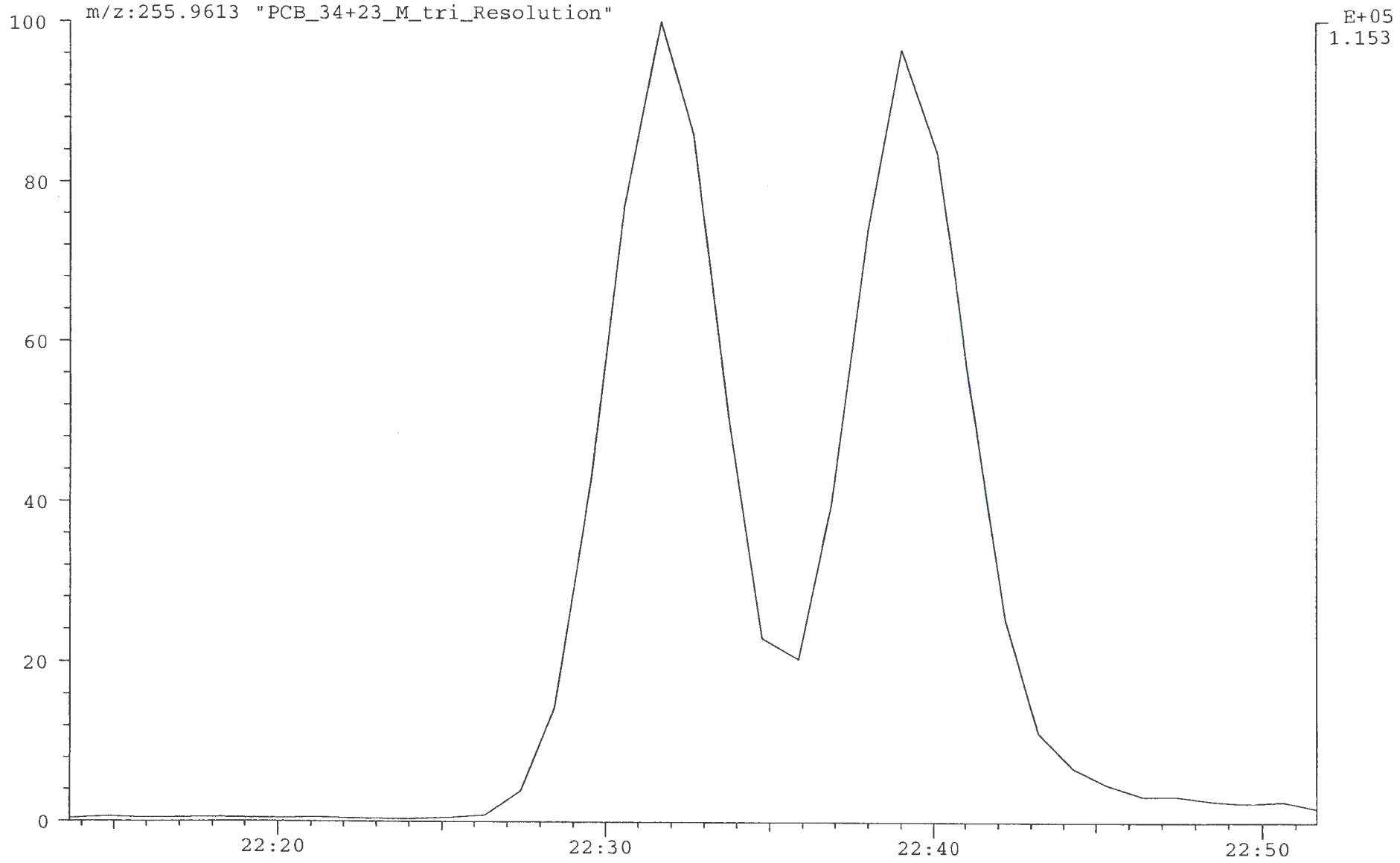
N REG RCOPY1 RCOPY2 RCOPY3 LIMIT CENTER SPREAD ERASE RESUME PAGE

PEAK: _

Mon Oct 15 21:00:42 2007 mat95 MAT 95

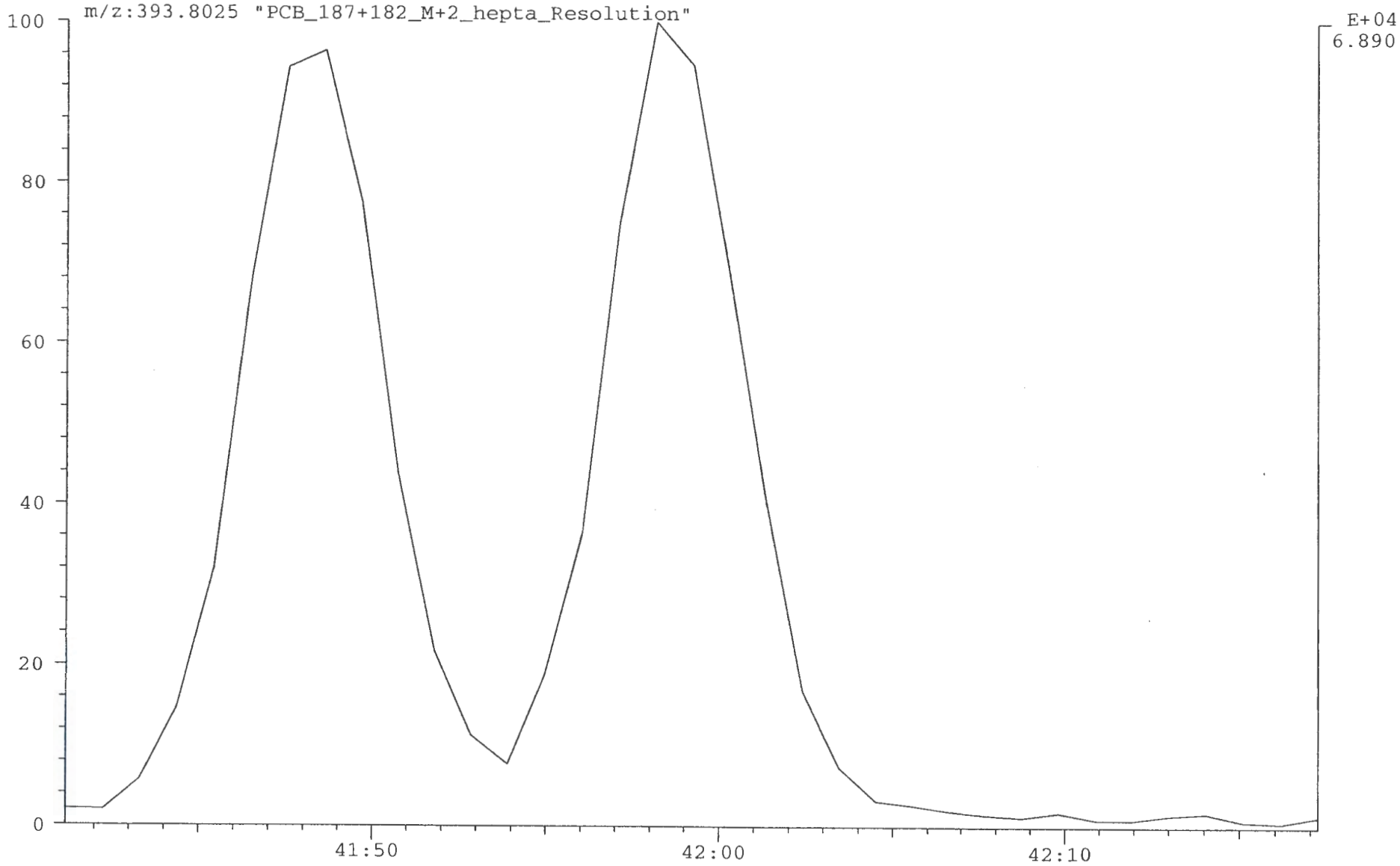
2819

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  22:24.2      644
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   634 > 670             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  0, 3.0
Disp:  Height  Area
```



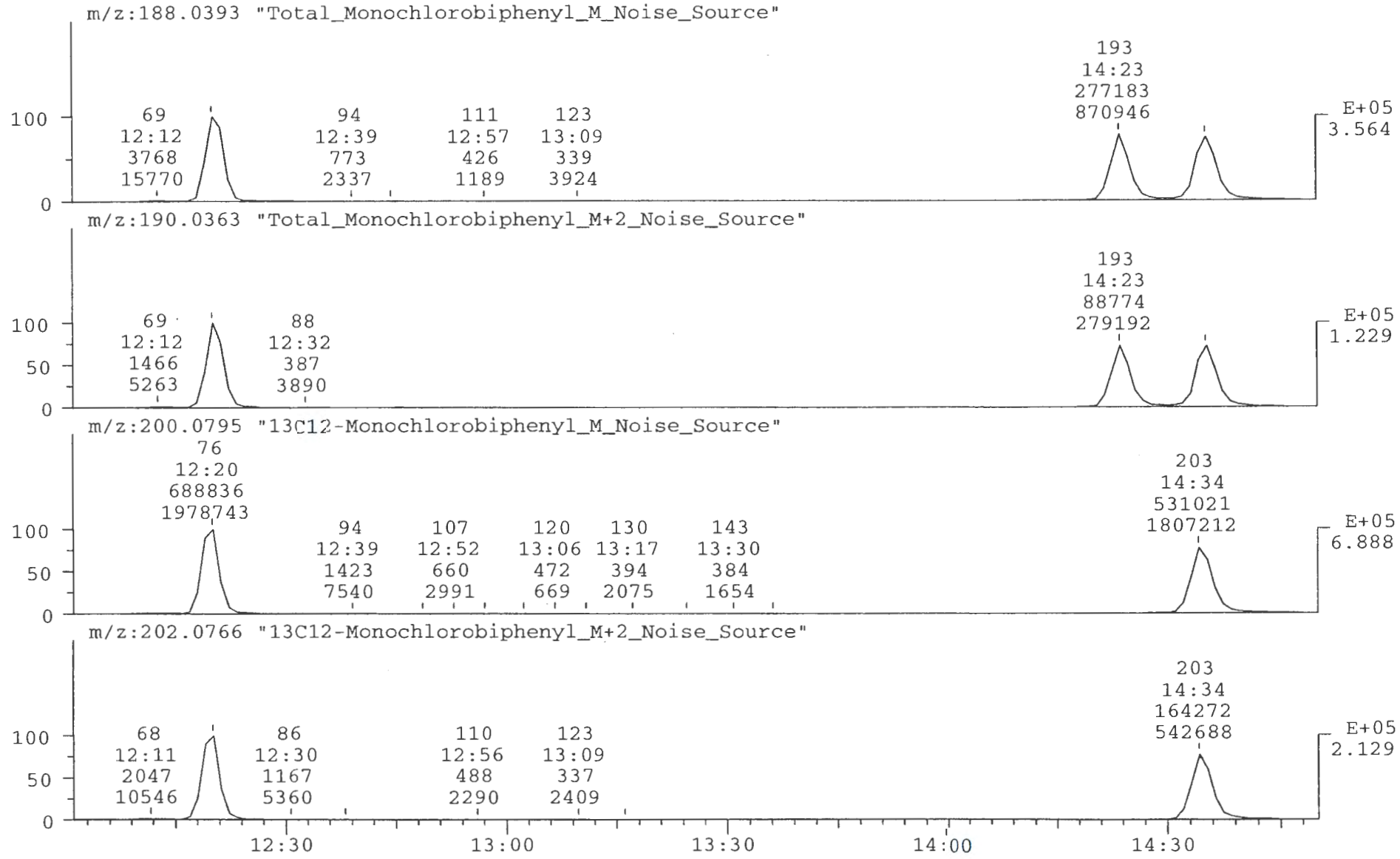
2820

CHRO: a071015s1 15-Oct-07 Elapse: 41:53 1746
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1734 > 1768 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area

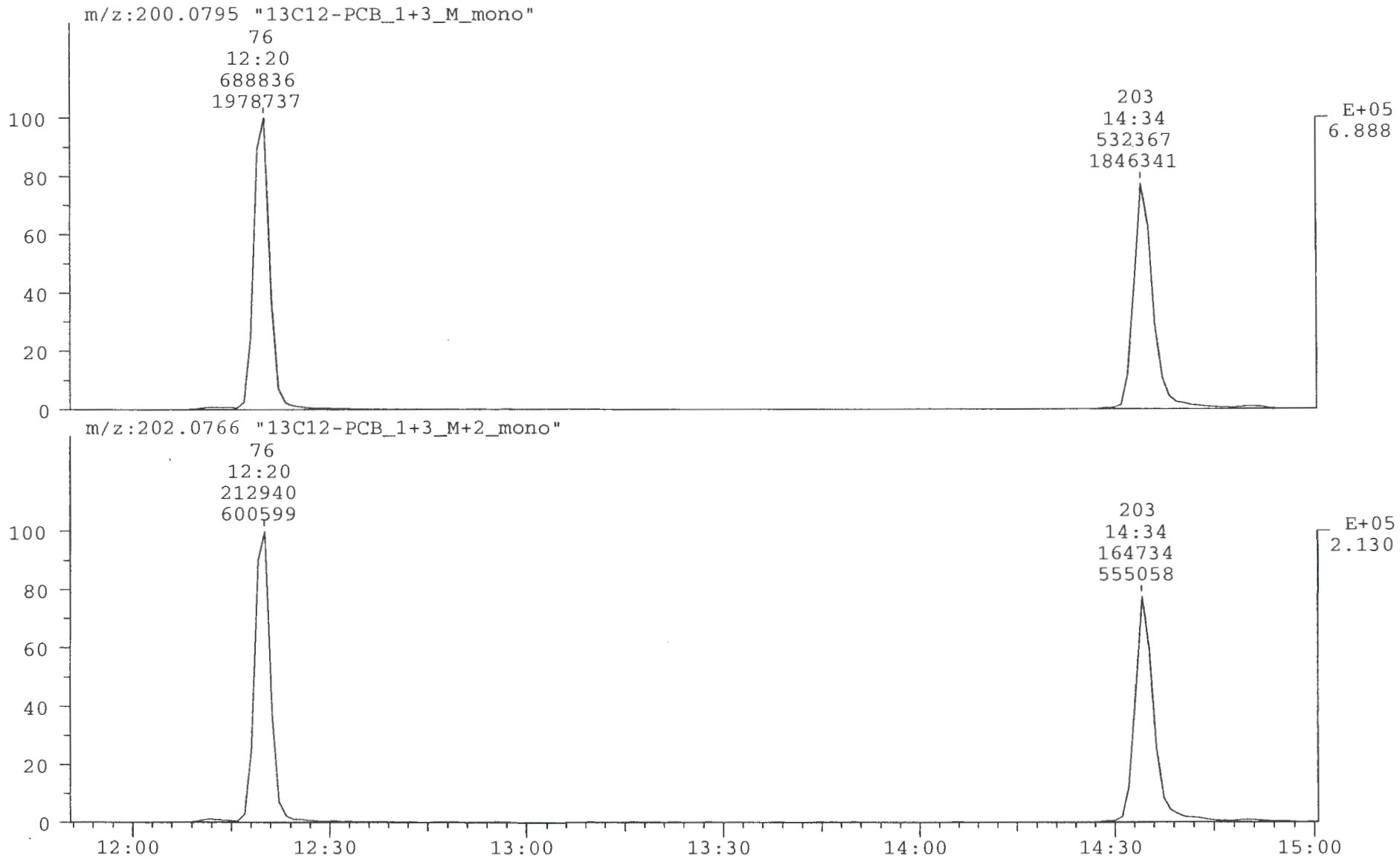


2821

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  13:25.5      138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   58 > 218              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

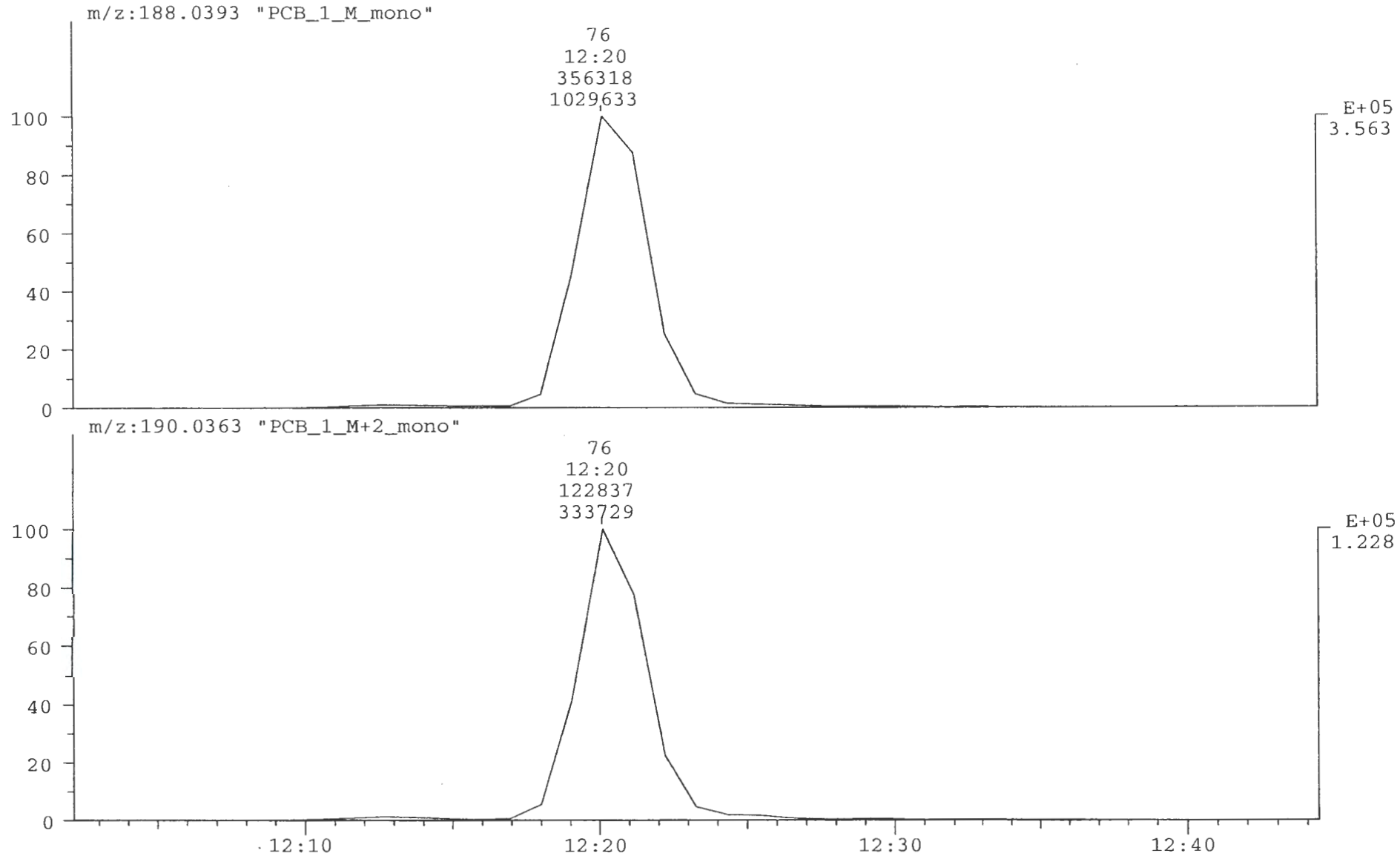


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  13:25.5      138
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



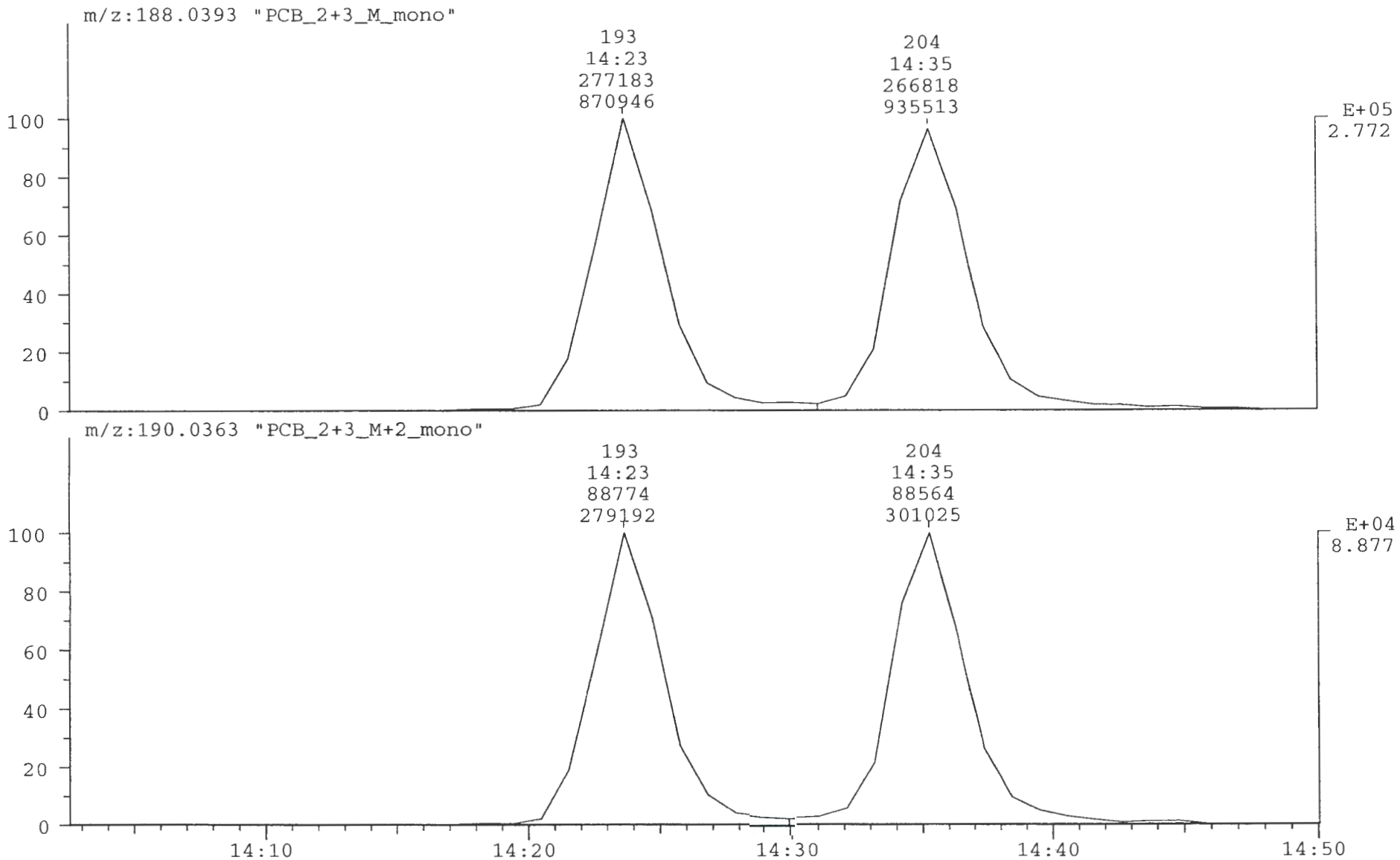
2823

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  12:12.7      69
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   59 > 99               Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

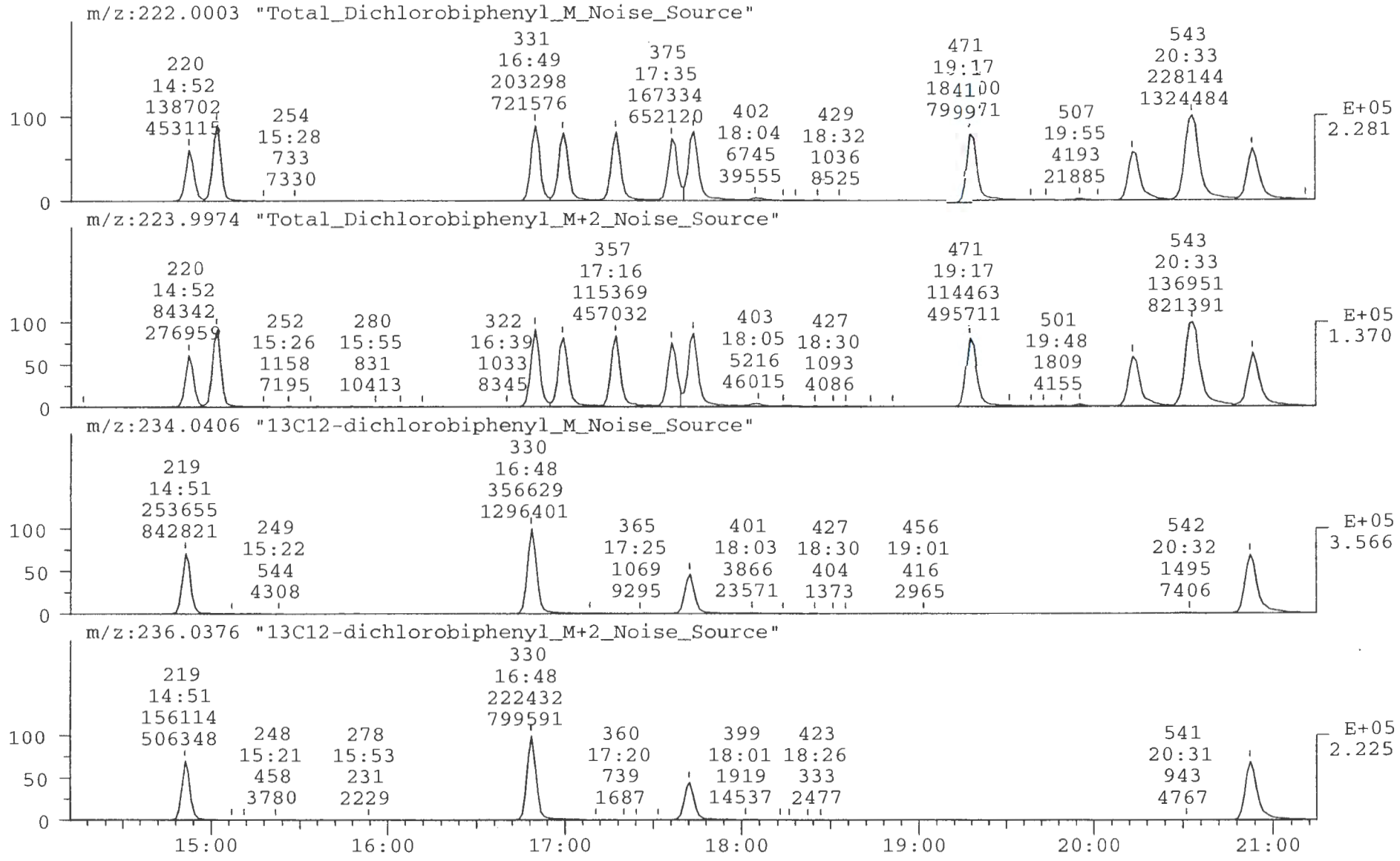


2824

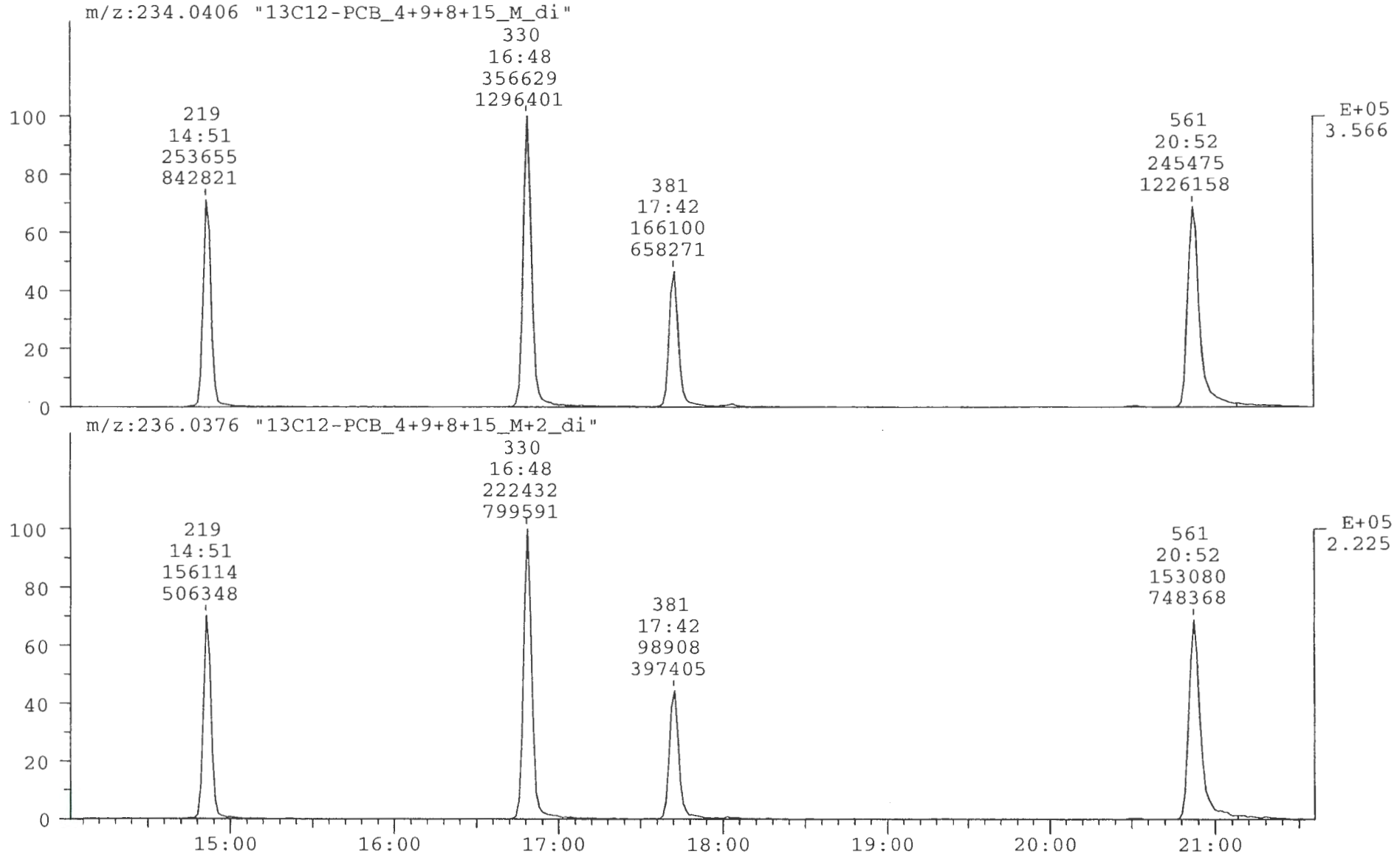
```
CHRO:  a071015s1                              15-Oct-07   Elapse:  14:23.6      193
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   173 > 218           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



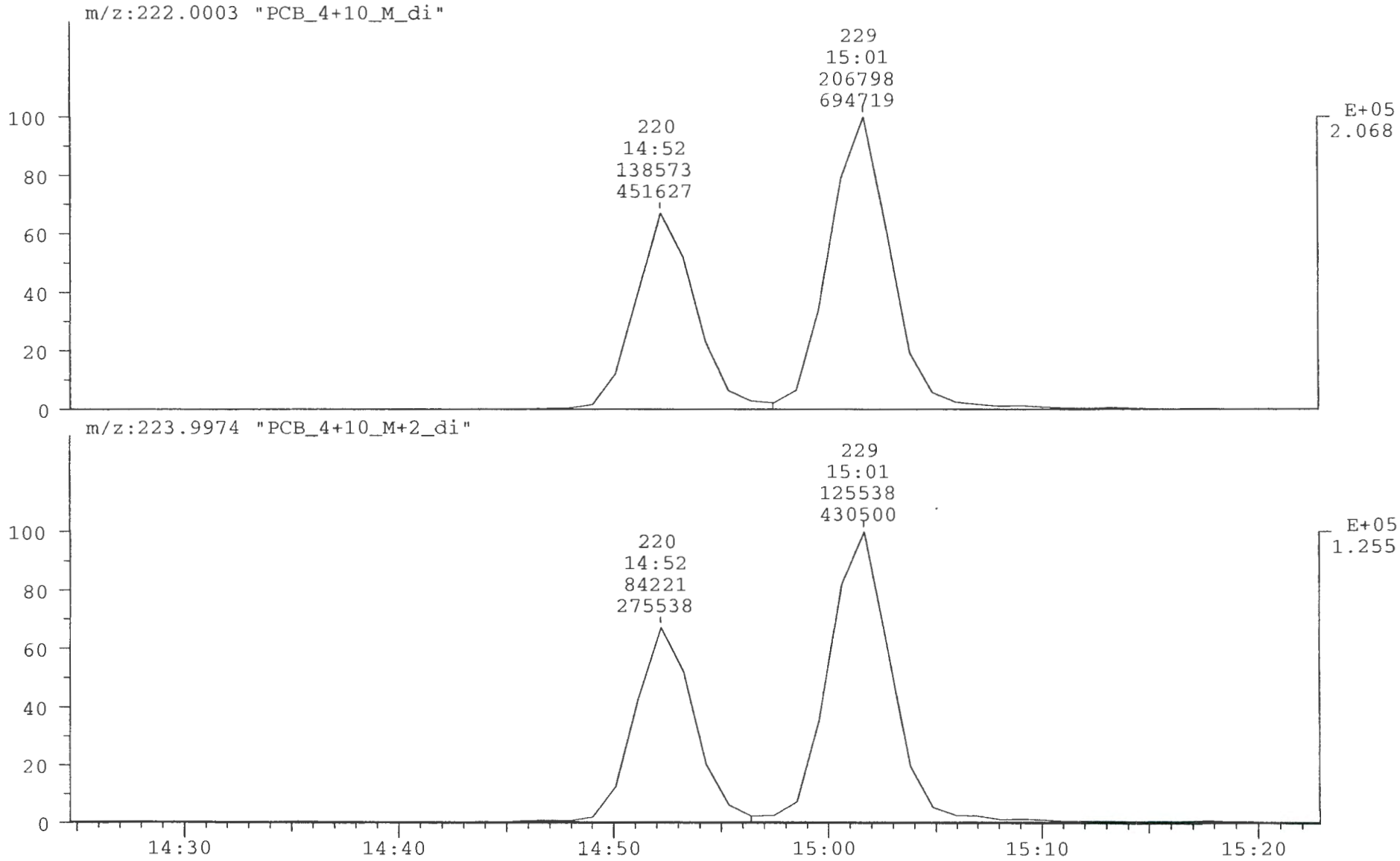
CHRO: a071015s1 15-Oct-07 Elapse: 17:43.2 382
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



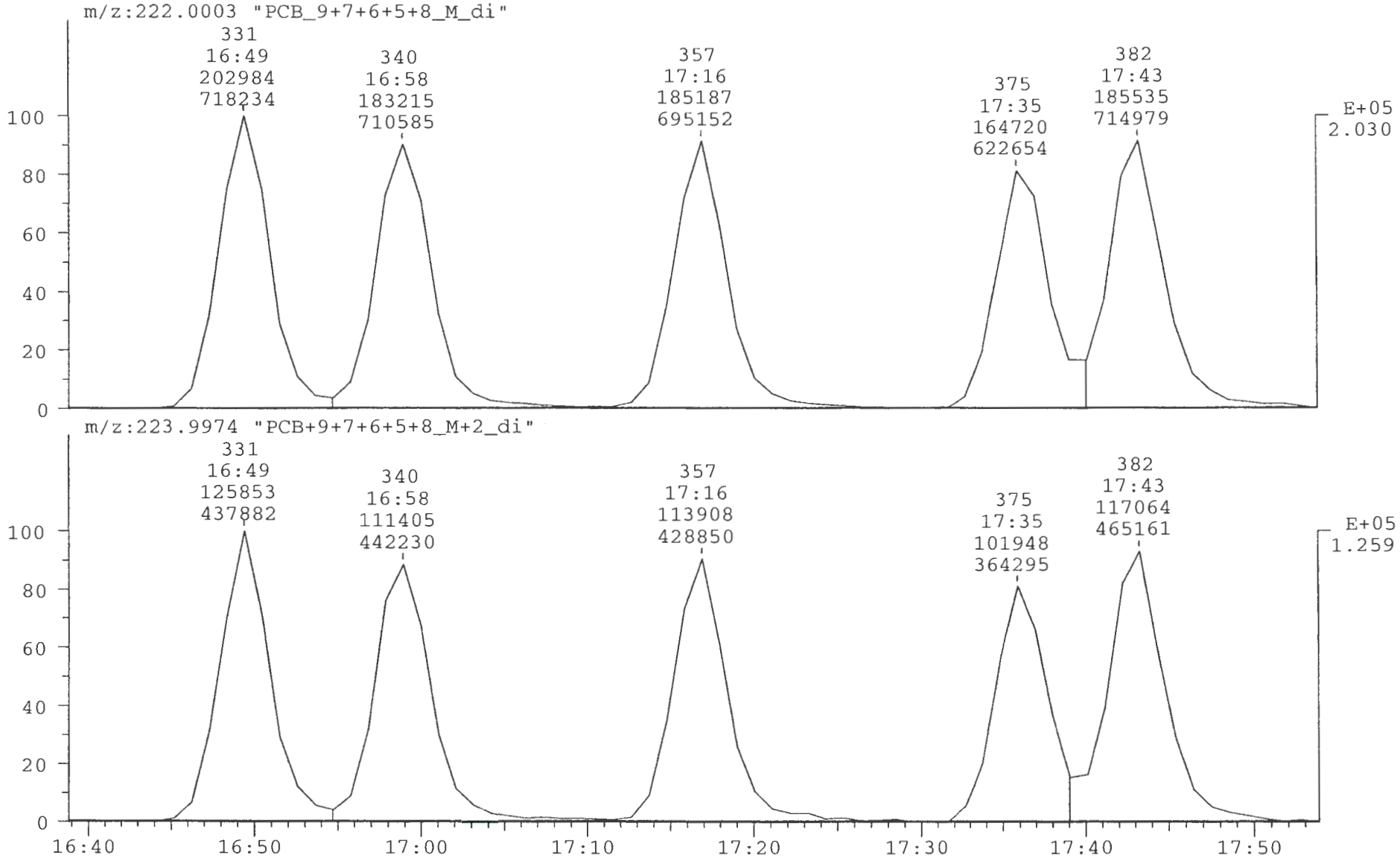
```
CHRO:  a071015s1                              15-Oct-07   Elapse:  17:43.2      382
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   172 > 602           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



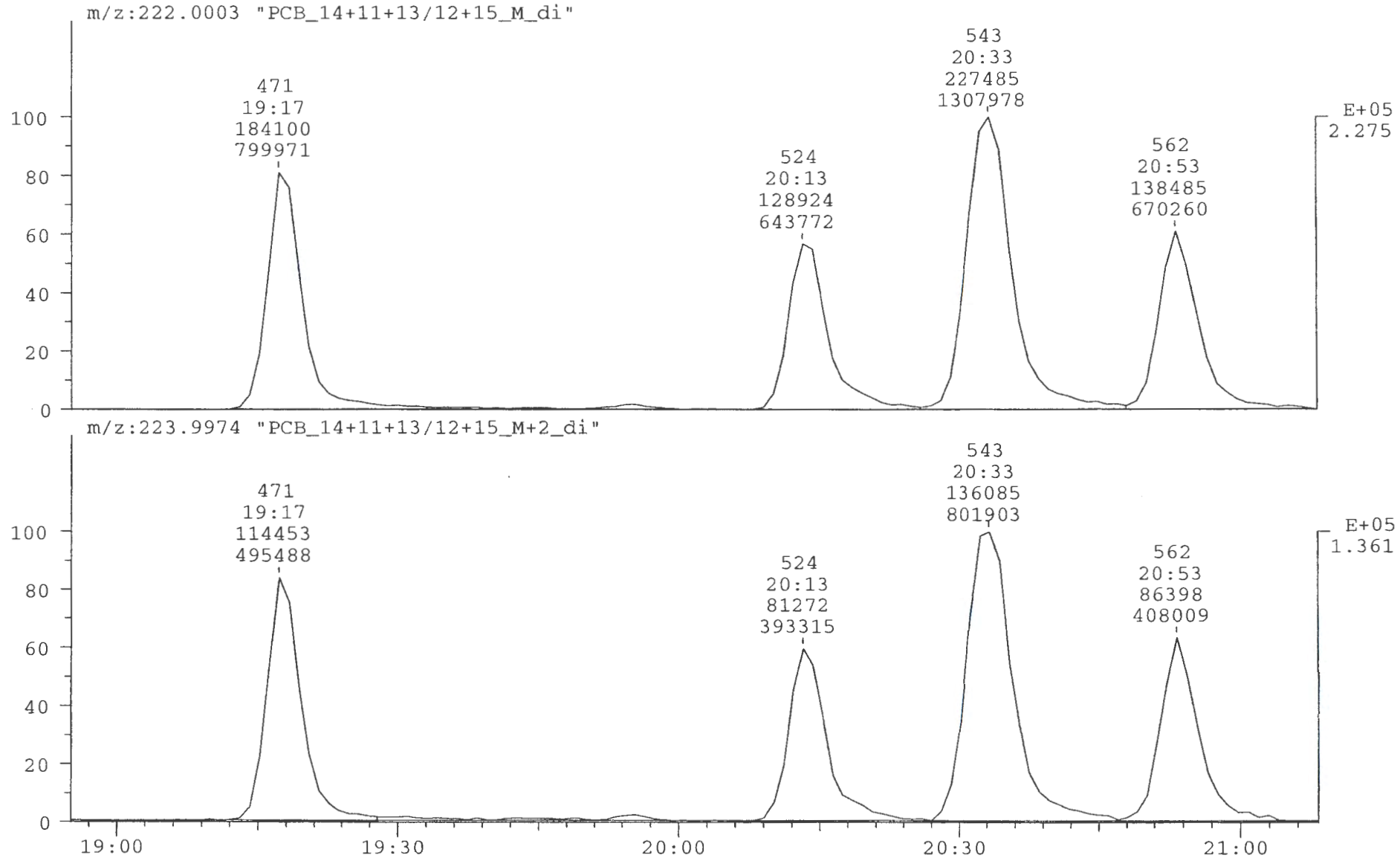
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  14:51.1      219
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   194 > 249             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                                15-Oct-07  Elapse:  17:10.5      351
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   321 > 392            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

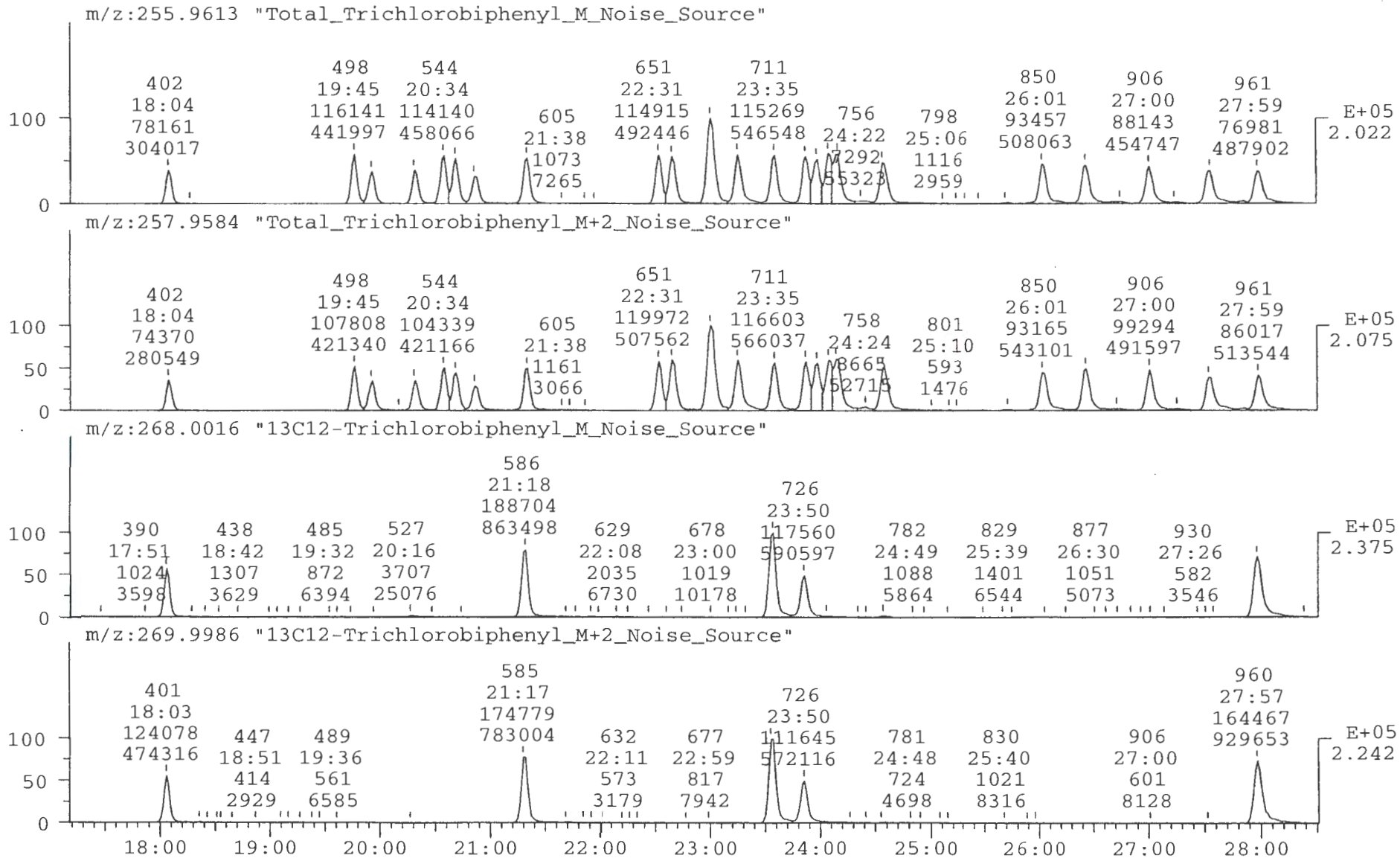


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  19:56.3      508
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   450 > 576             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```

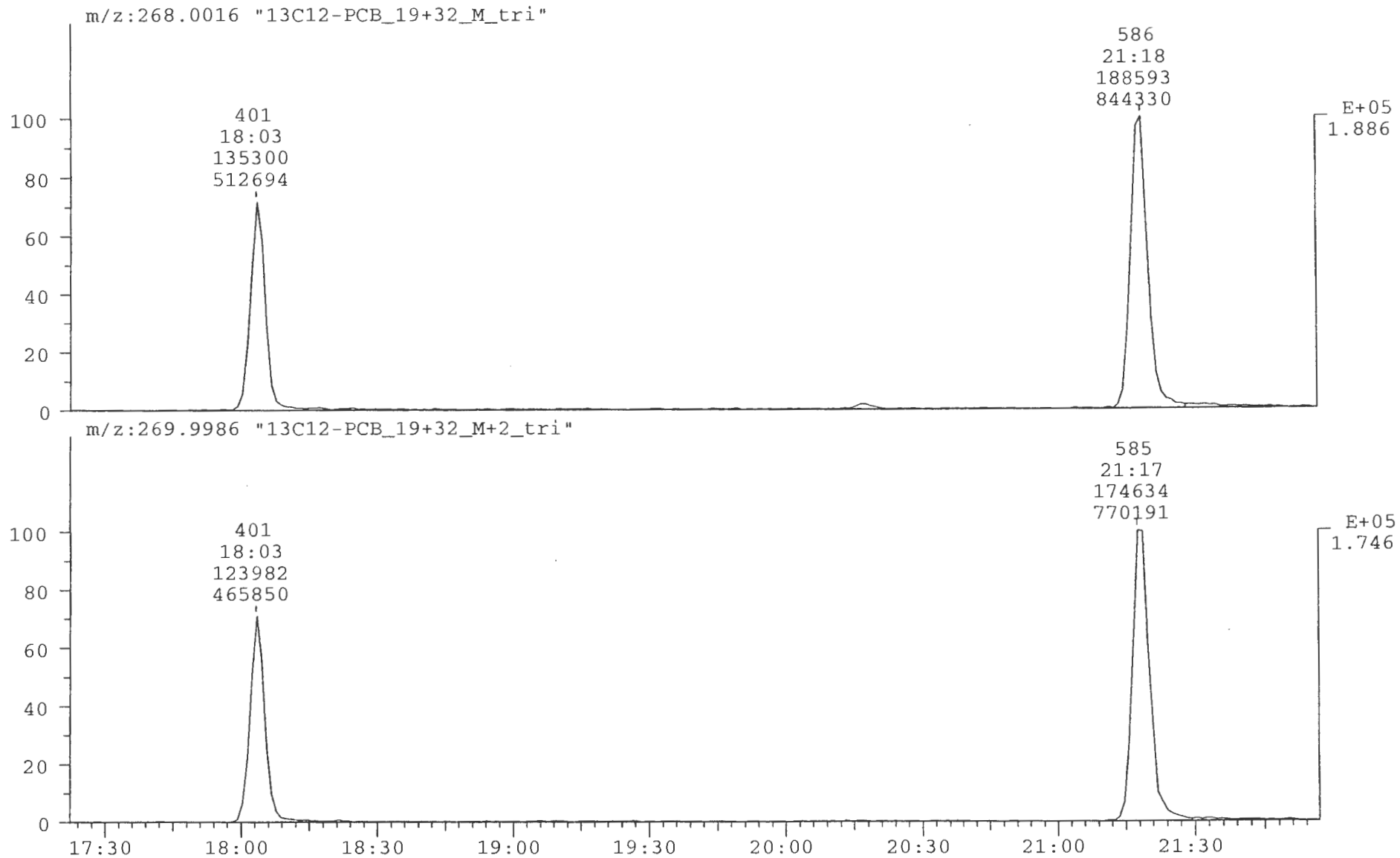


2830

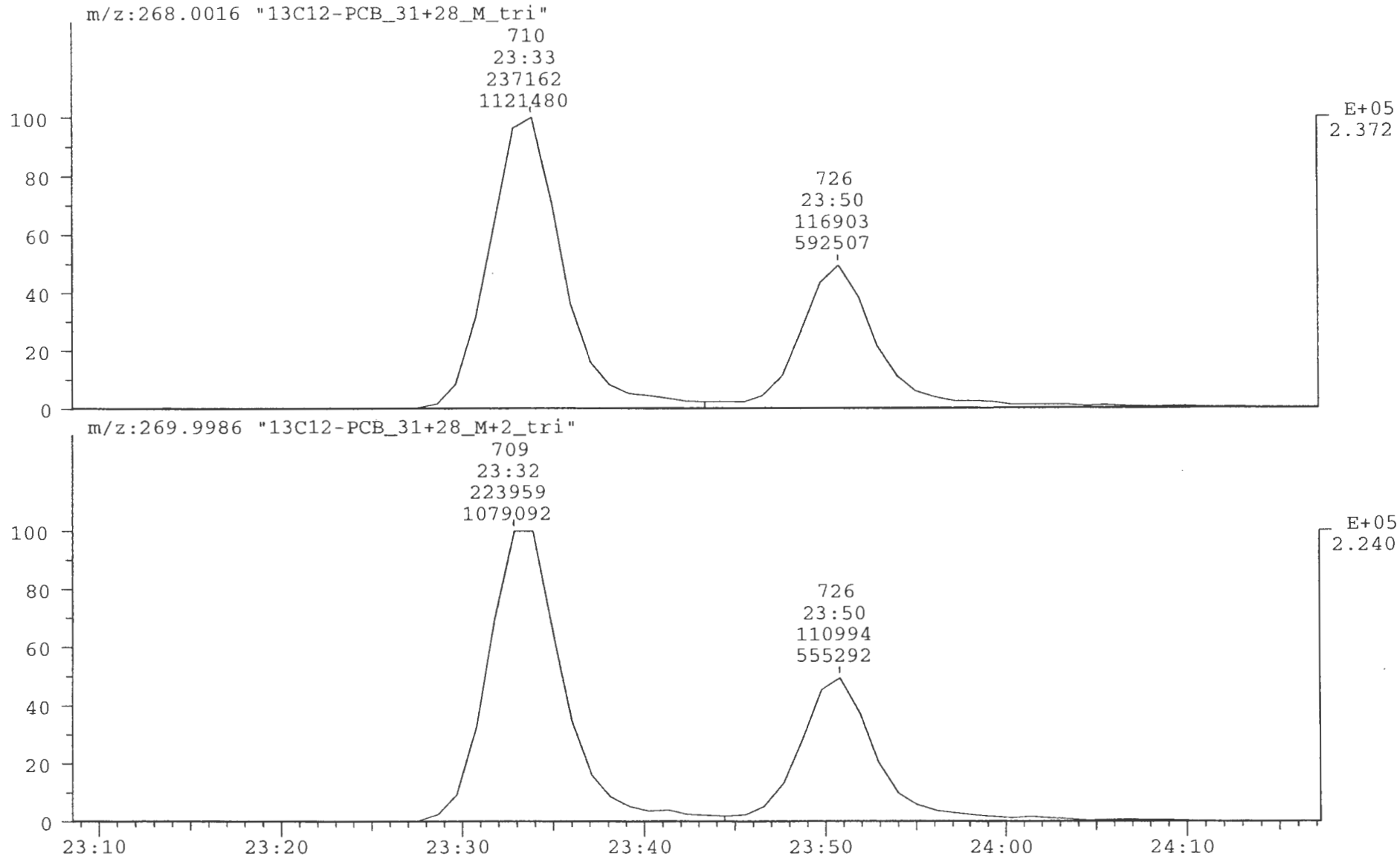
CHRO: a071015s1 15-Oct-07 Elapse: 22:52.7 671
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



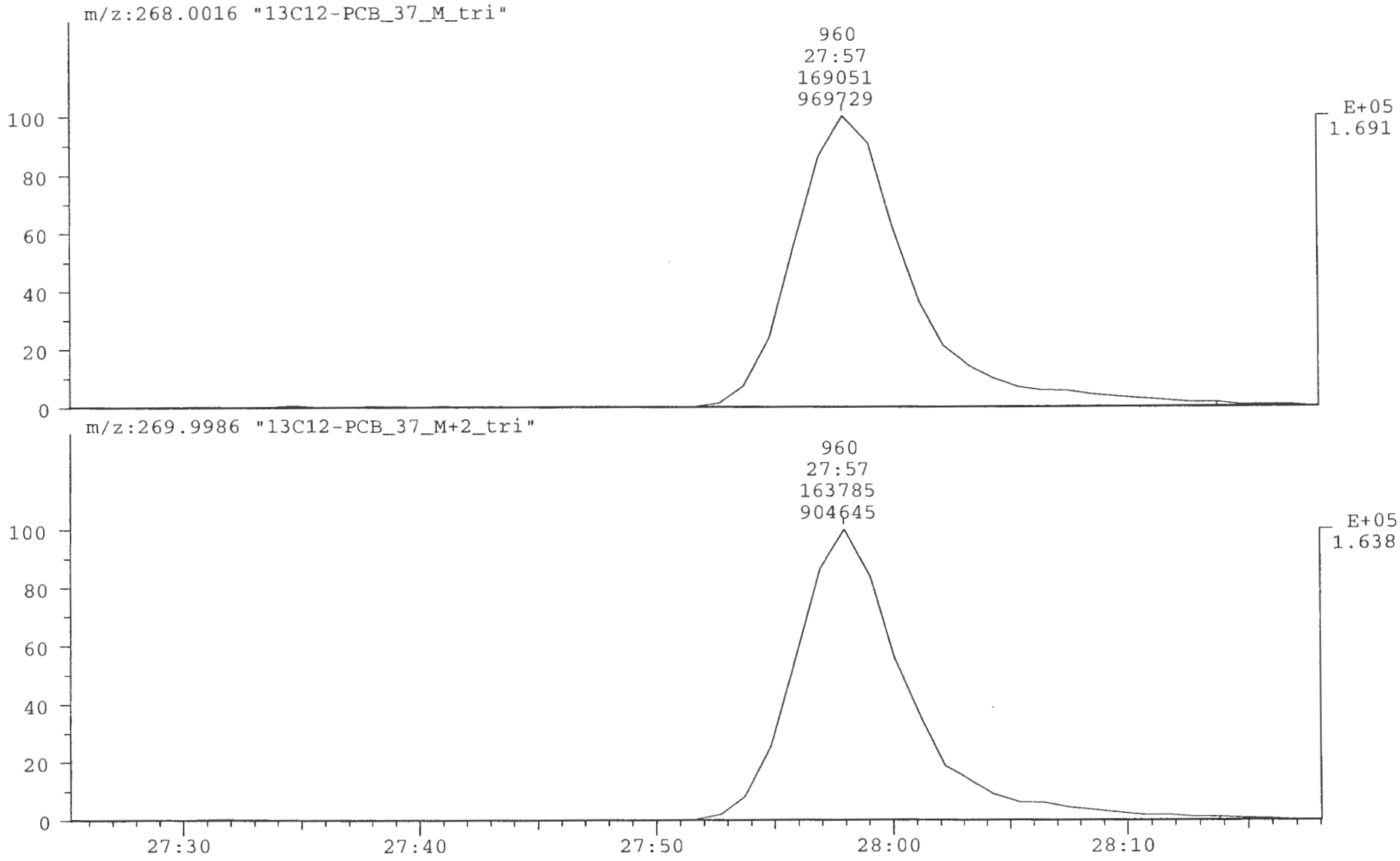
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  19:18.3      472
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   362 > 622             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                                15-Oct-07   Elapse:  23:24.4      701
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   686 > 751             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

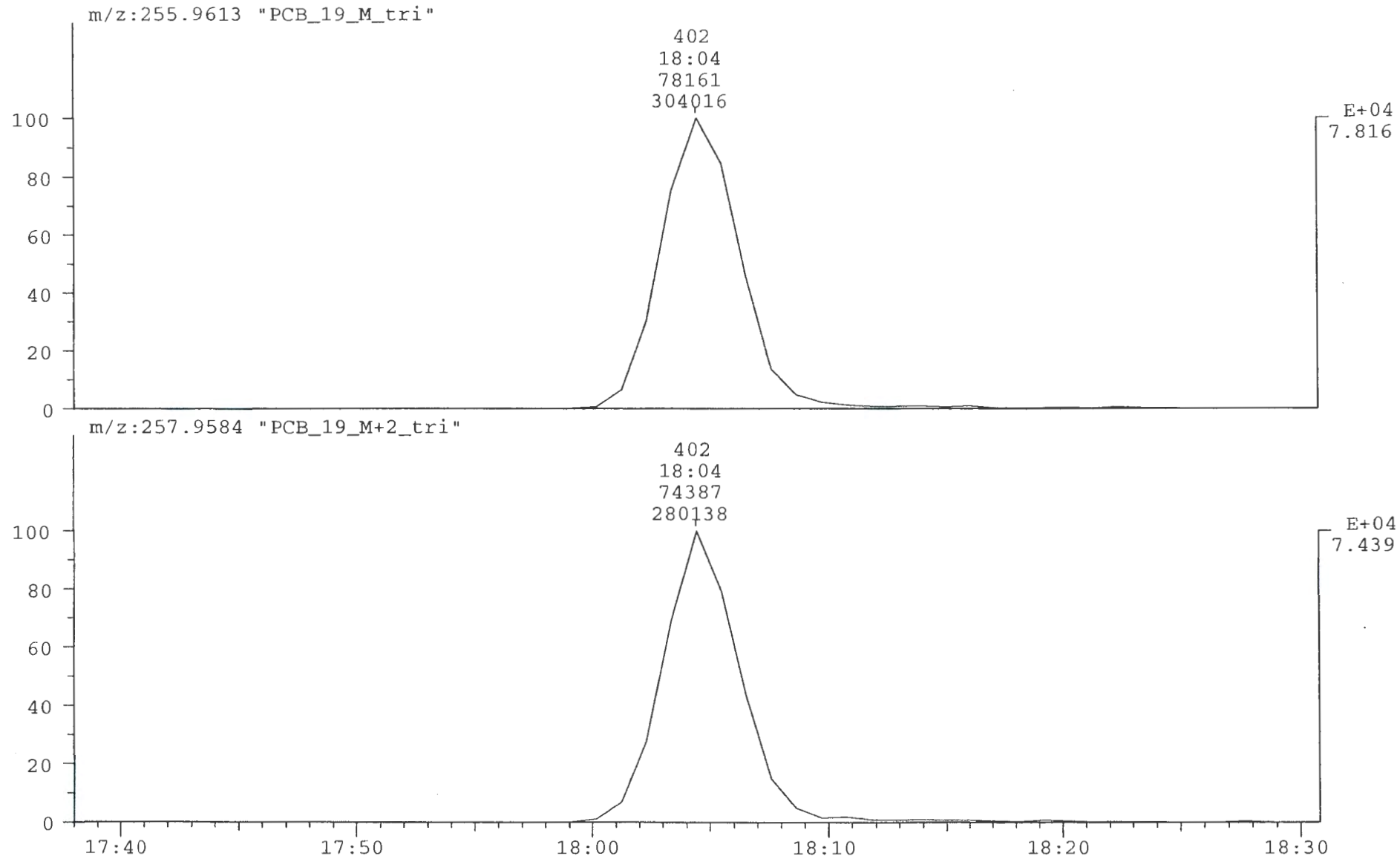


CHRO: a071015s1 15-Oct-07 Elapse: 27:46.3 949
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 929 > 979 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

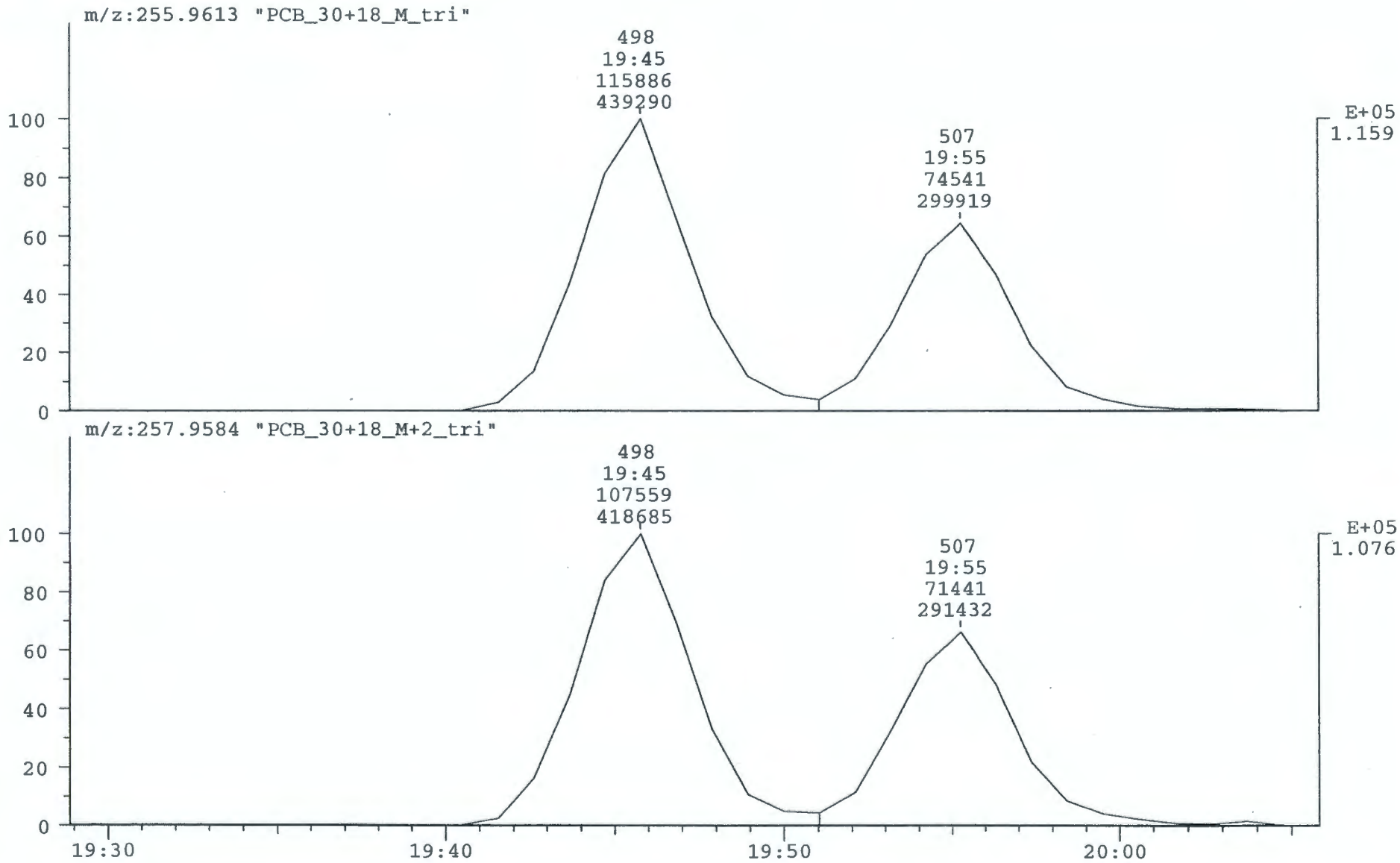


2834

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  17:53.8      392
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   377 > 427             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

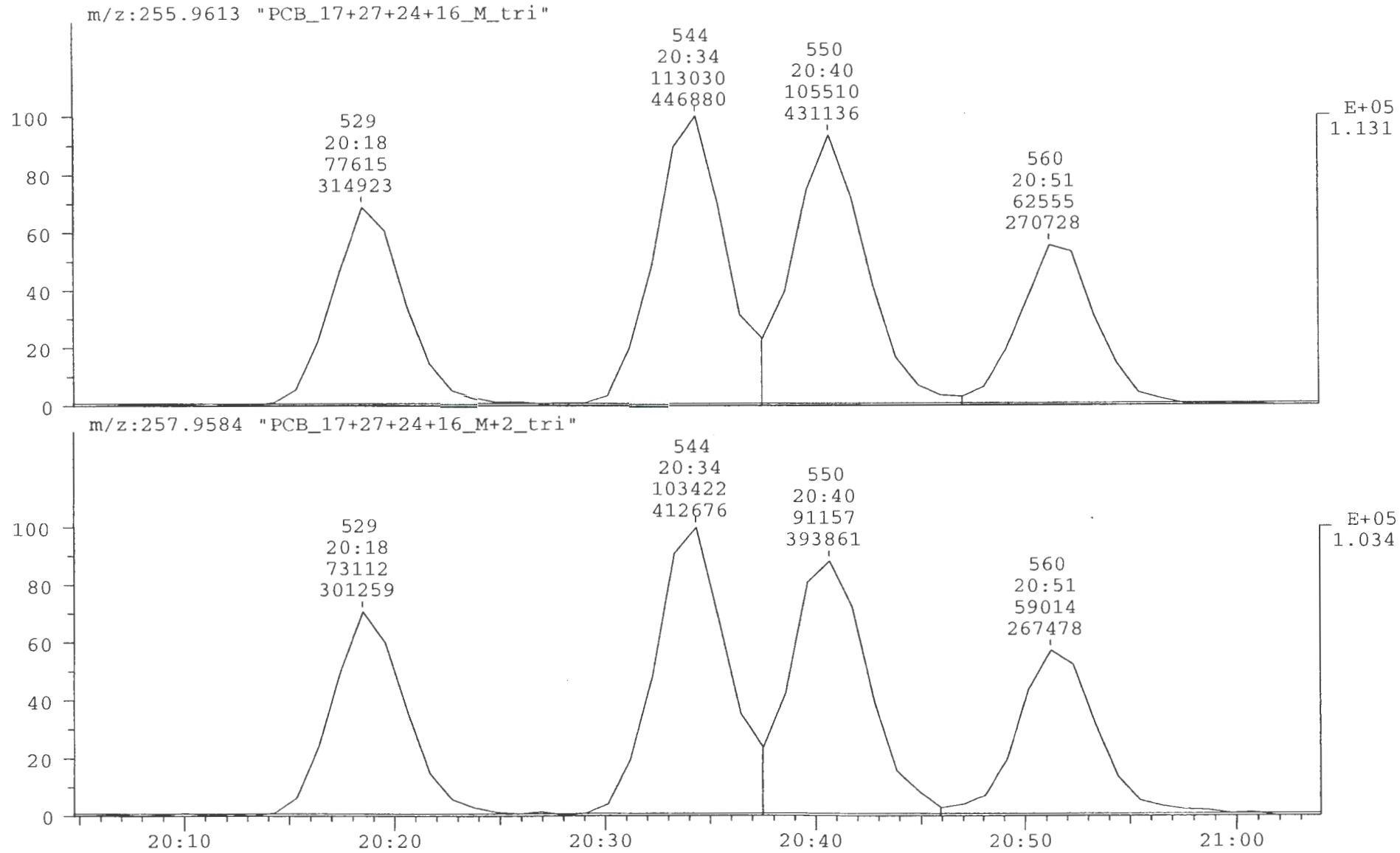


```
CHRO:  a071015s1                              15-Oct-07   Elapse:  19:44.7     497
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   482 > 517            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

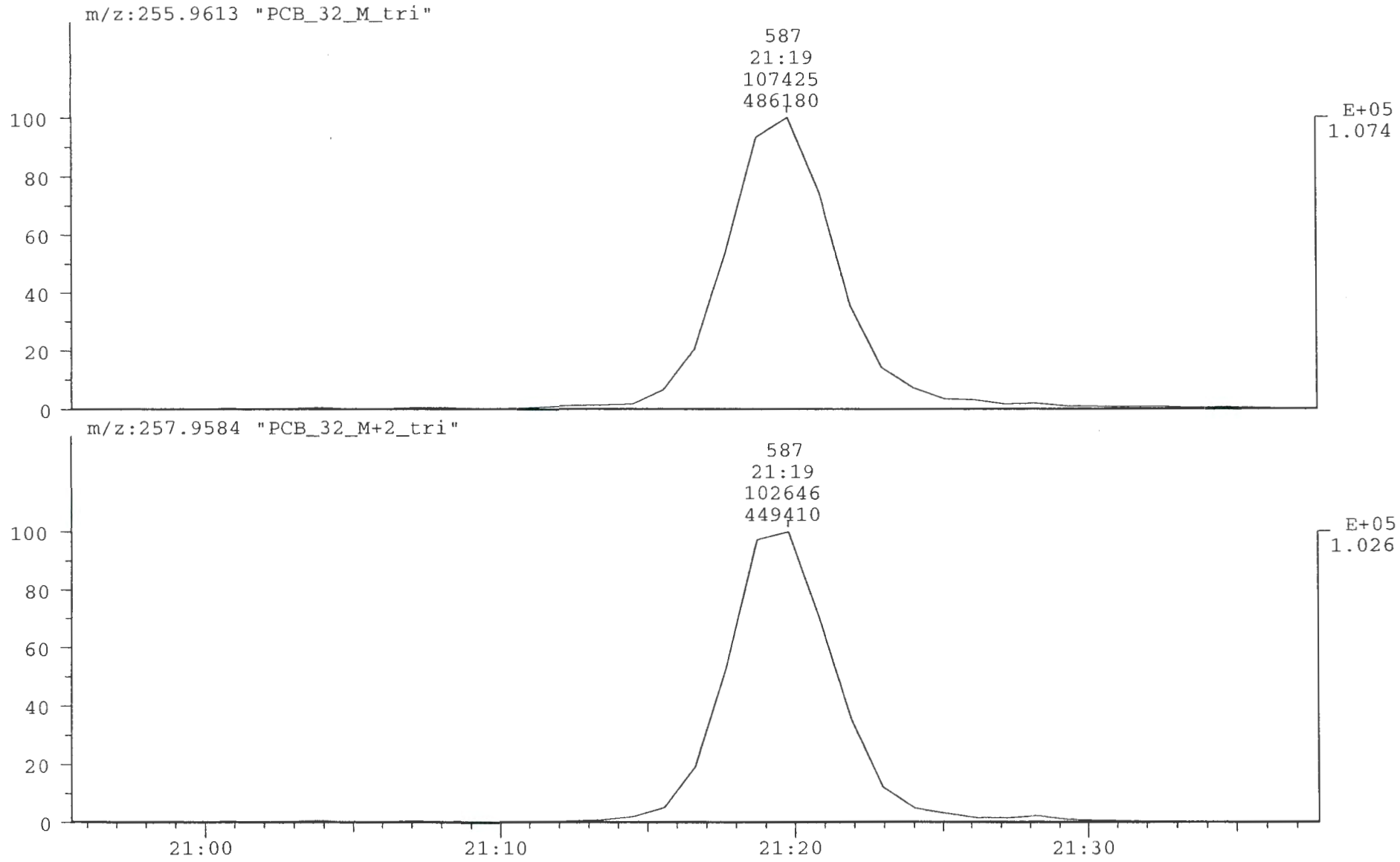


2836

CHRO: a071015s1 15-Oct-07 Elapse: 20:26.9 537
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 516 > 572 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

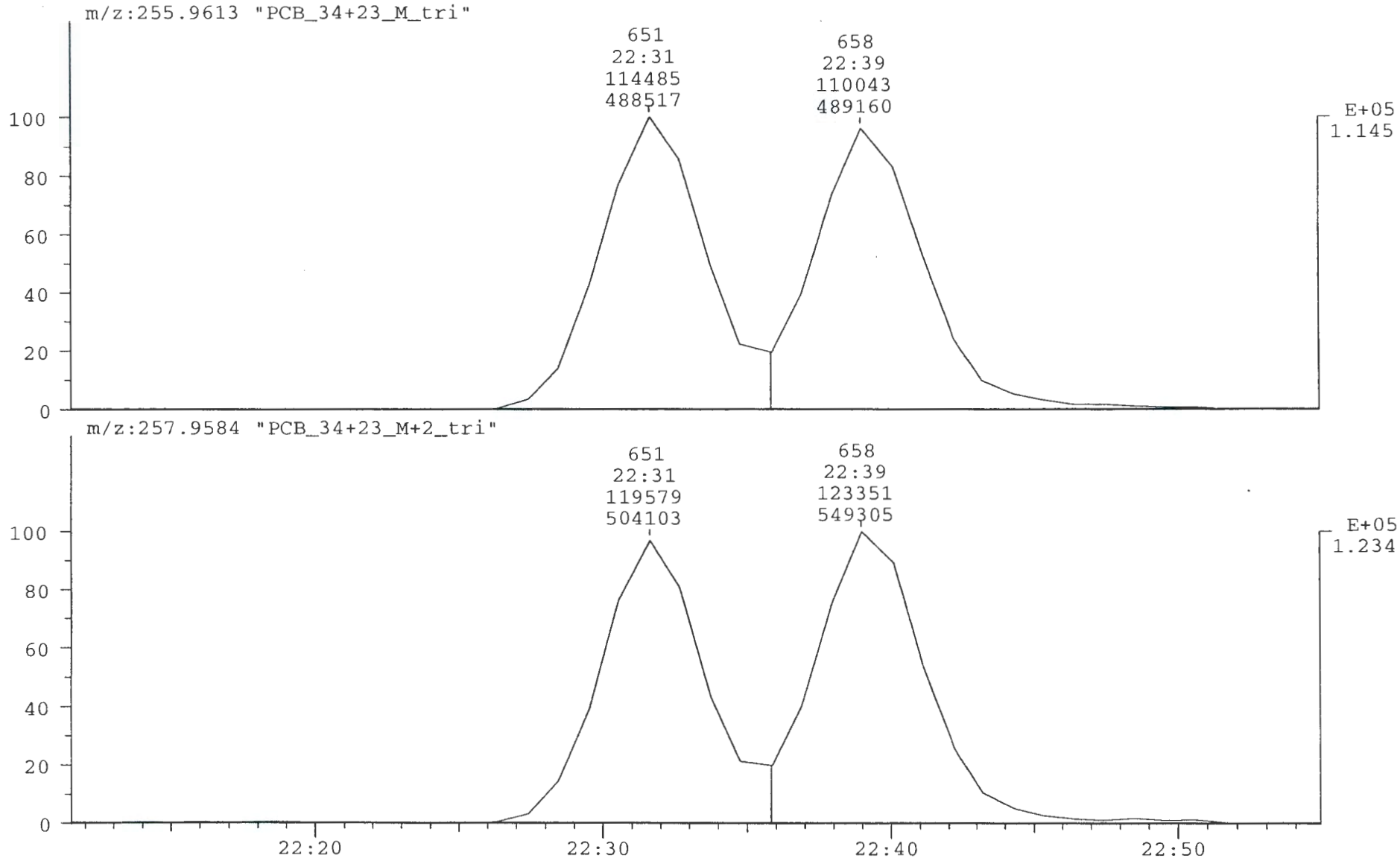


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  21:11.3      579
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   564 > 604             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

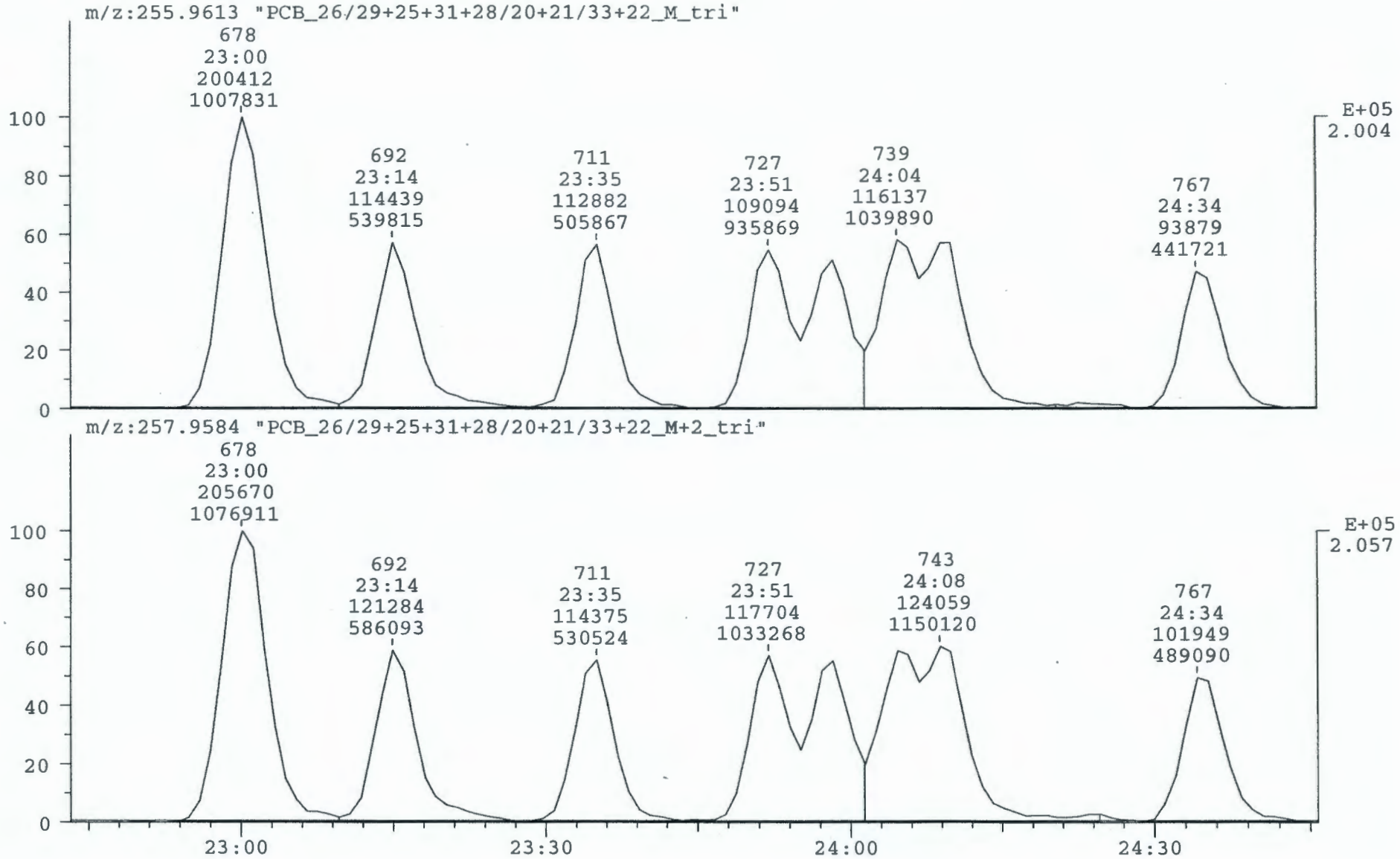


2838

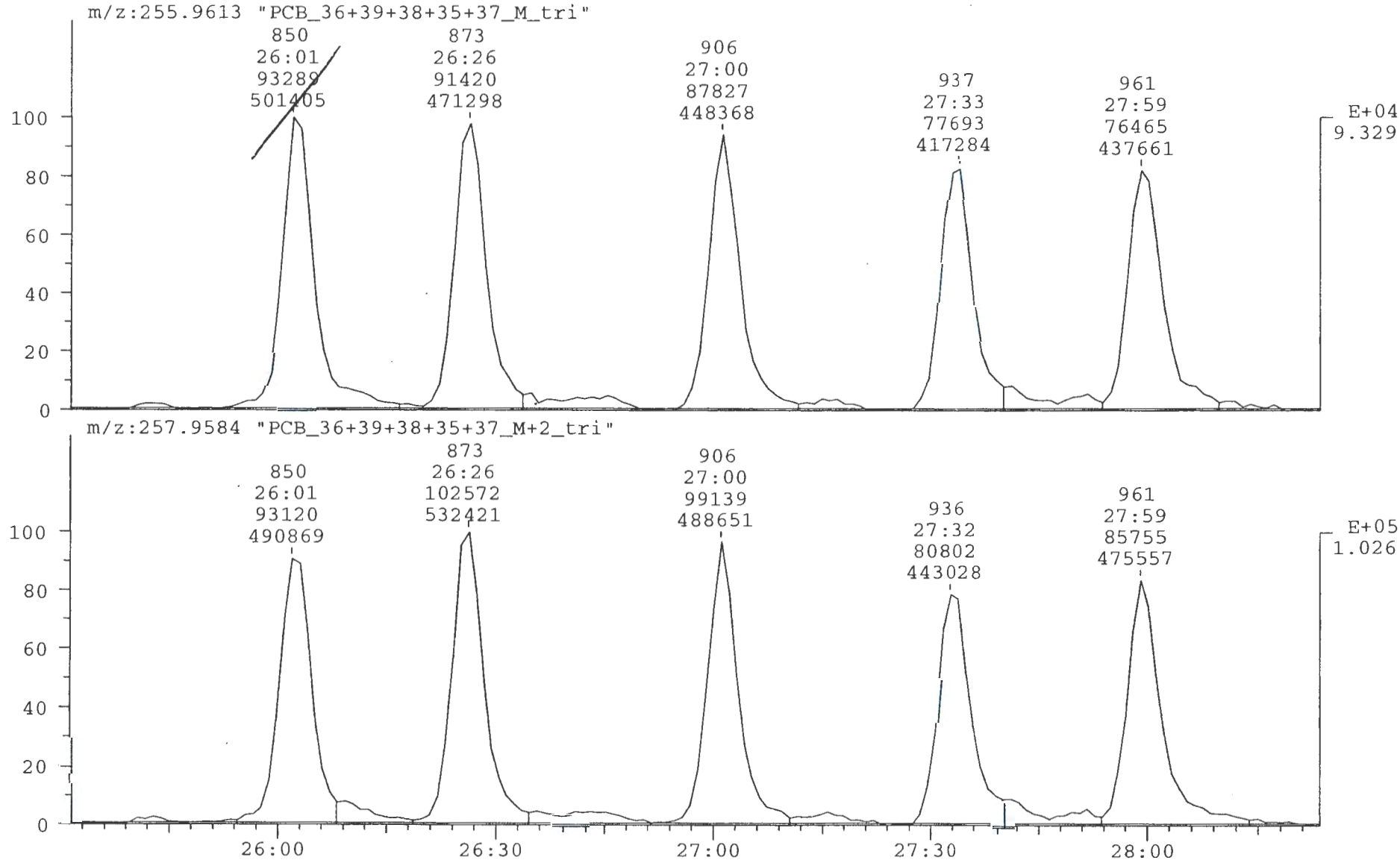
```
CHRO:  a071015s1                              15-Oct-07   Elapse:  22:24.2      644
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   632 > 673           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



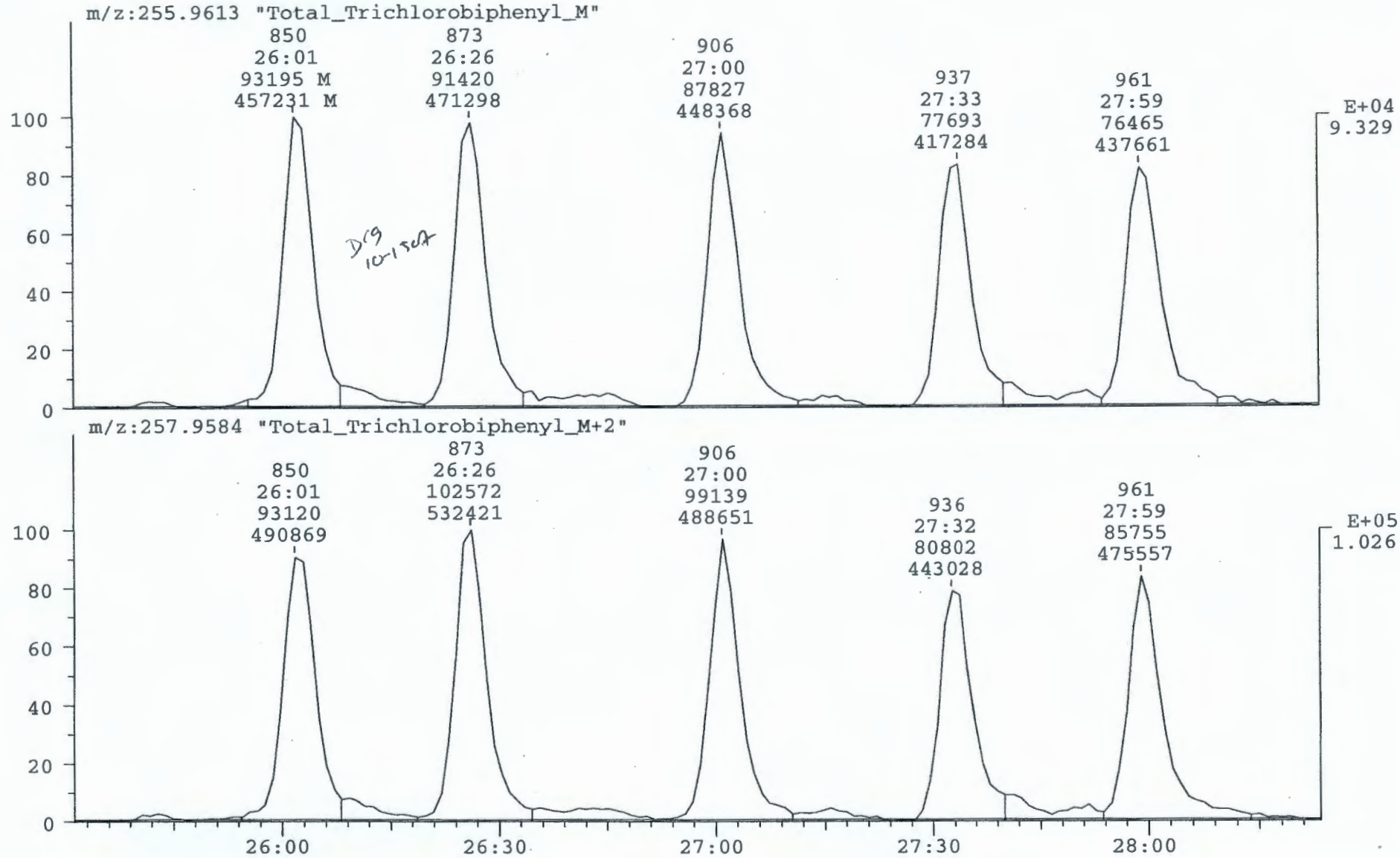
CHRO: a071015s1 15-Oct-07 Elapse: 23:55.0 730
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 662 > 778 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 8 Label : -3, 3.0
Disp: Height Area



CHRO: a071015s1 15-Oct-07 Elapse: 26:53.5 899
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 821 > 984 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

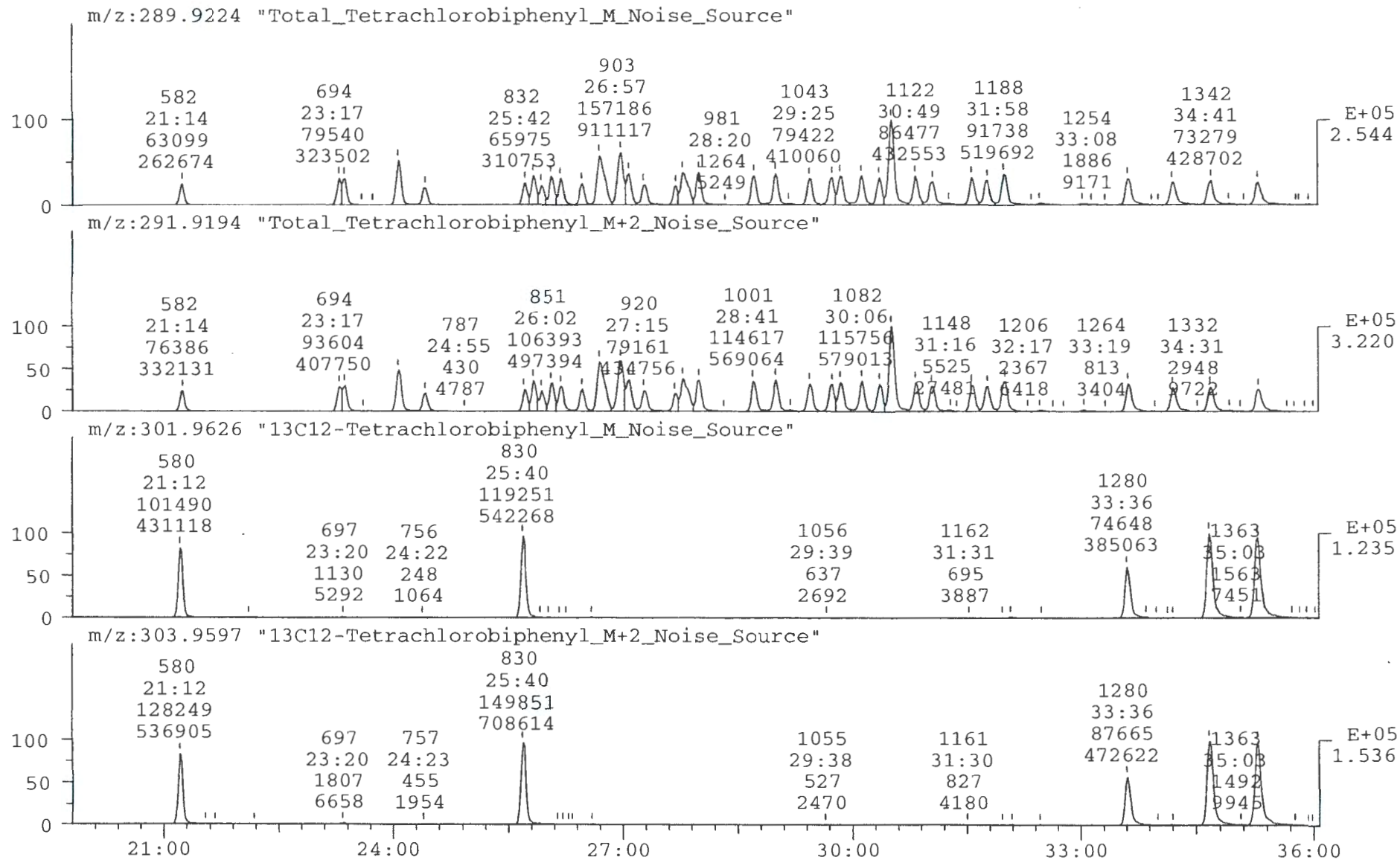


CHRO: a071015s1 15-Oct-07 Elapse: 56:12 2554
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 821 > 984 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

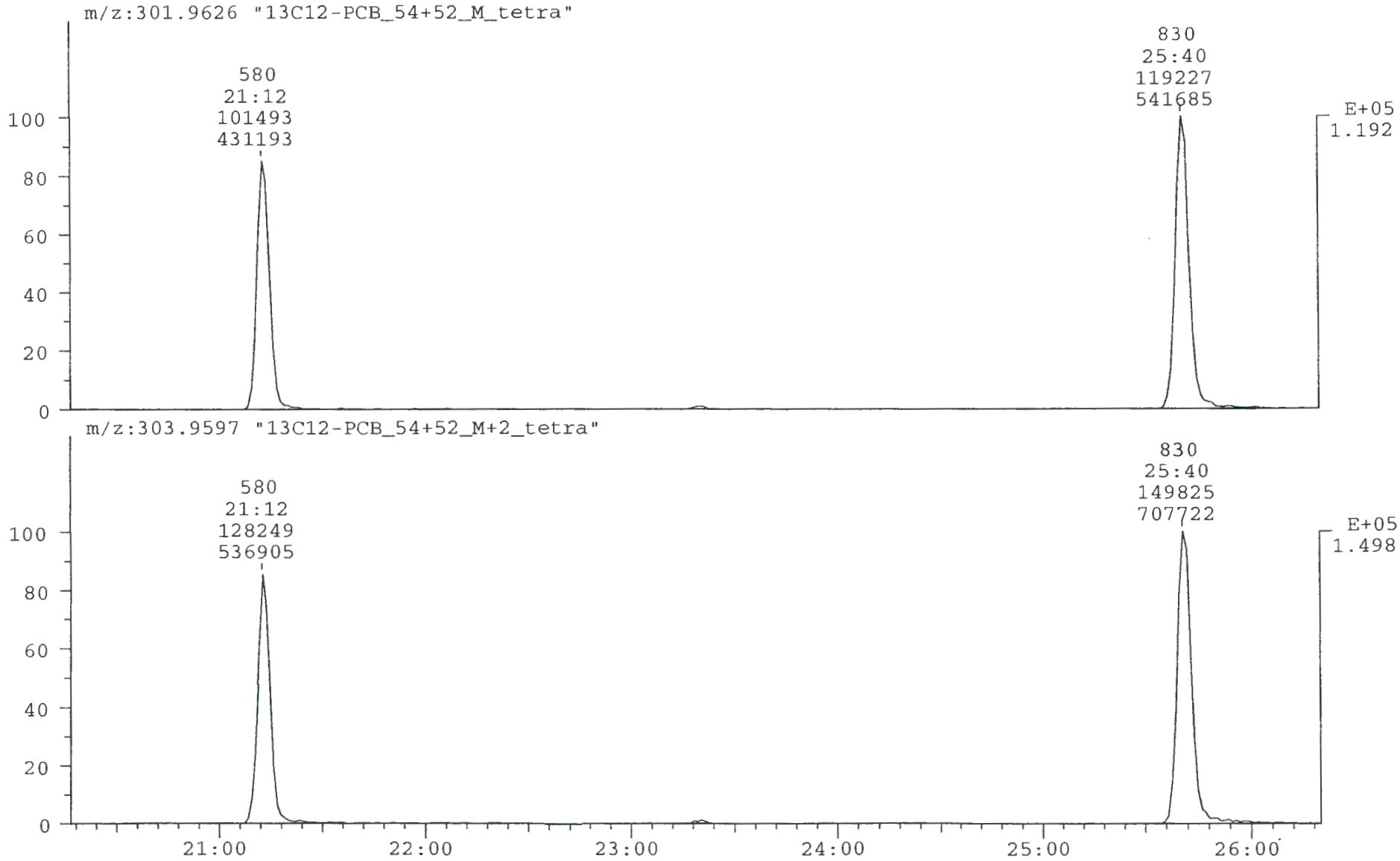


2842

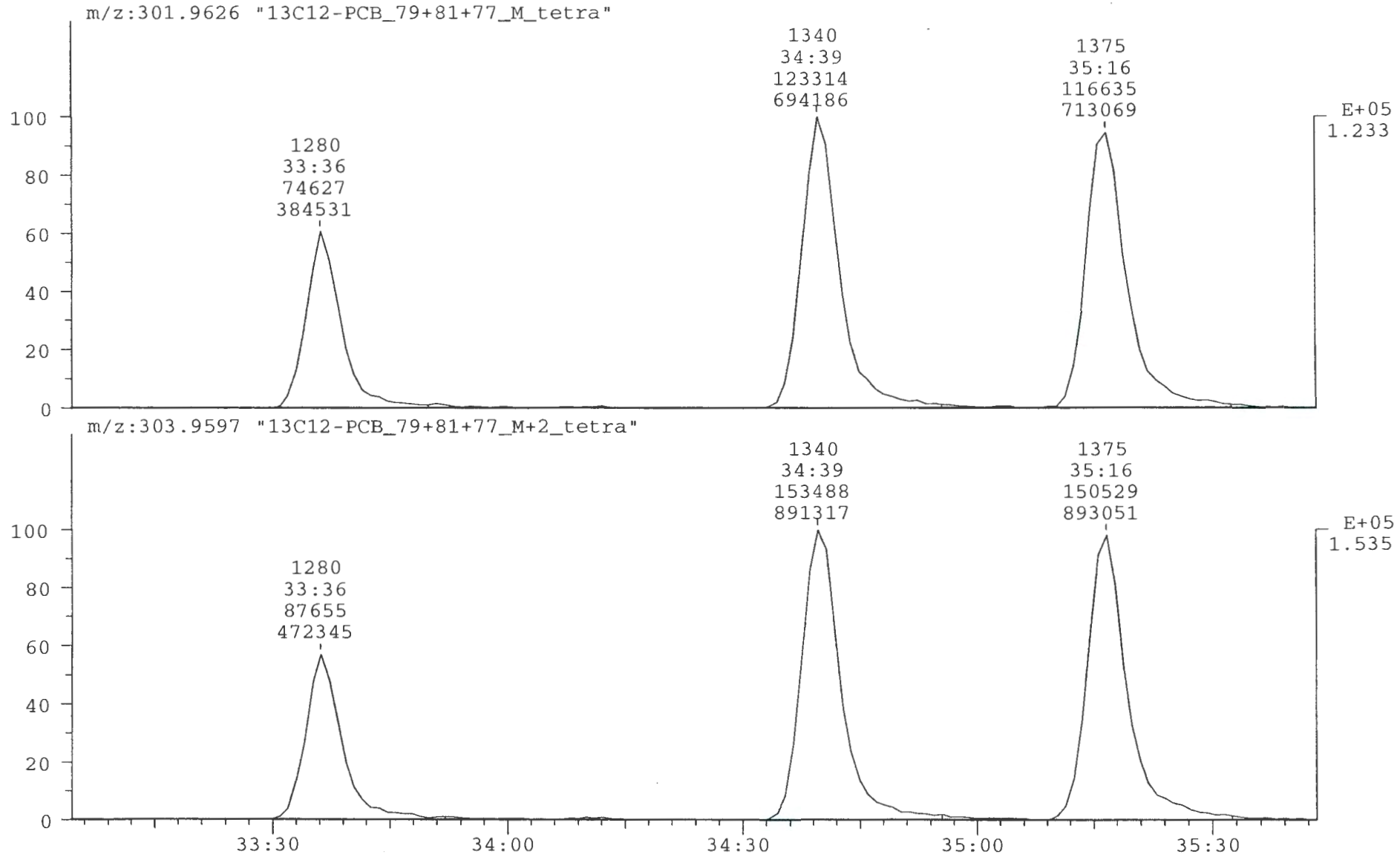
CHRO: a071015s1 15-Oct-07 Elapse: 27:55.8 958
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 500 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



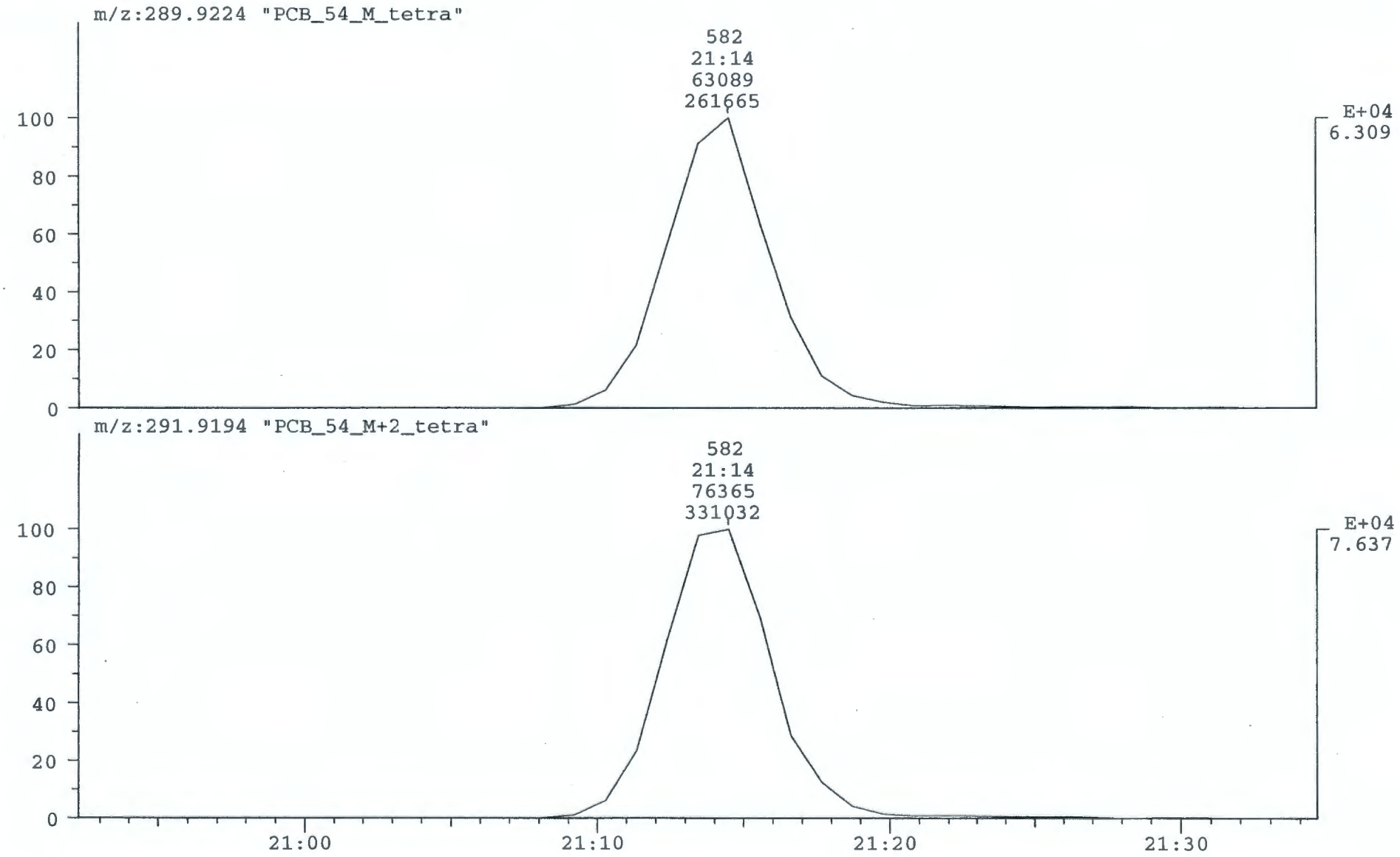
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  23:20.2      697
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                                15-Oct-07   Elapse:  34:15      1317
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1250 > 1400            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

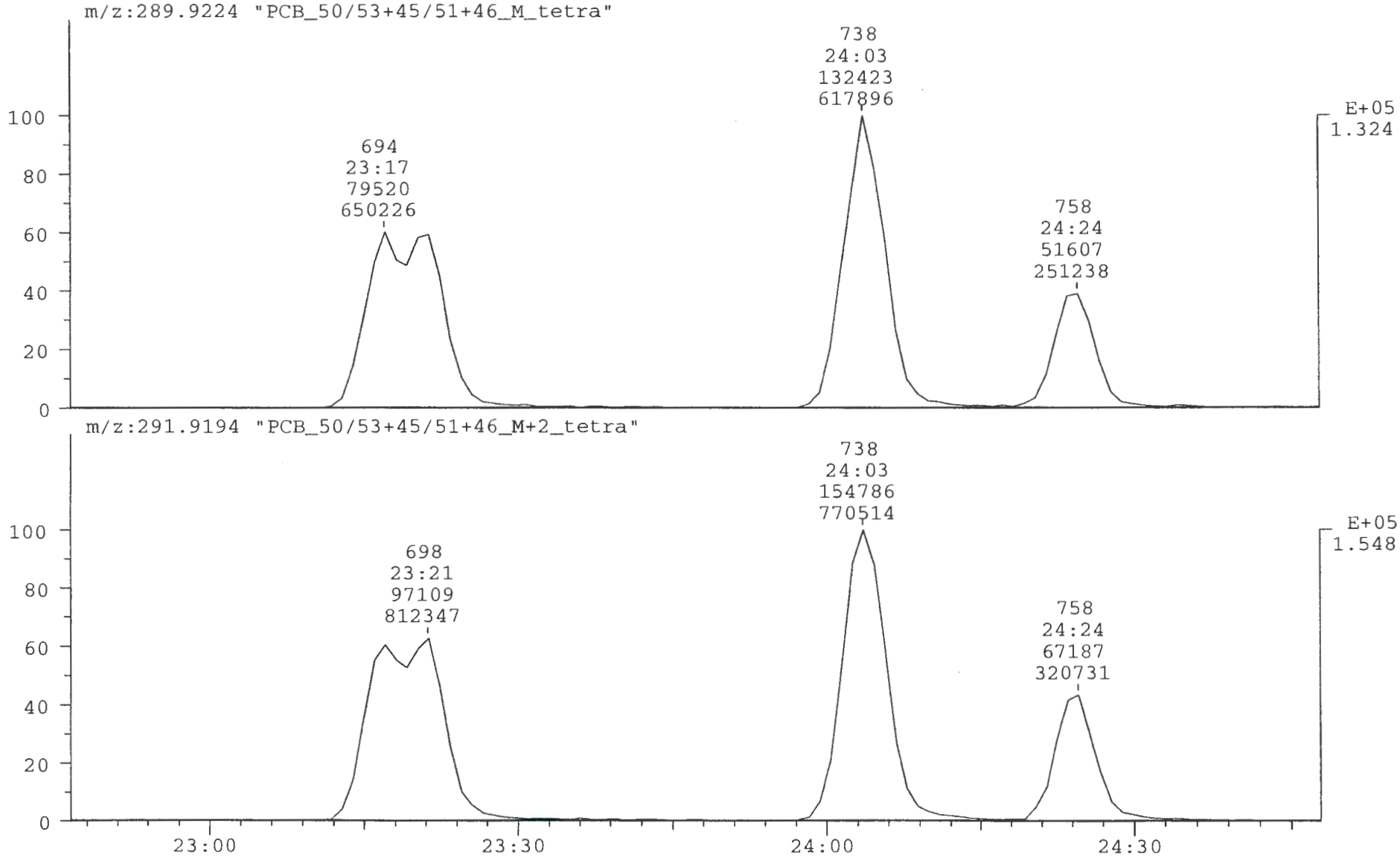


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  21:02.9      571
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   561 > 601             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



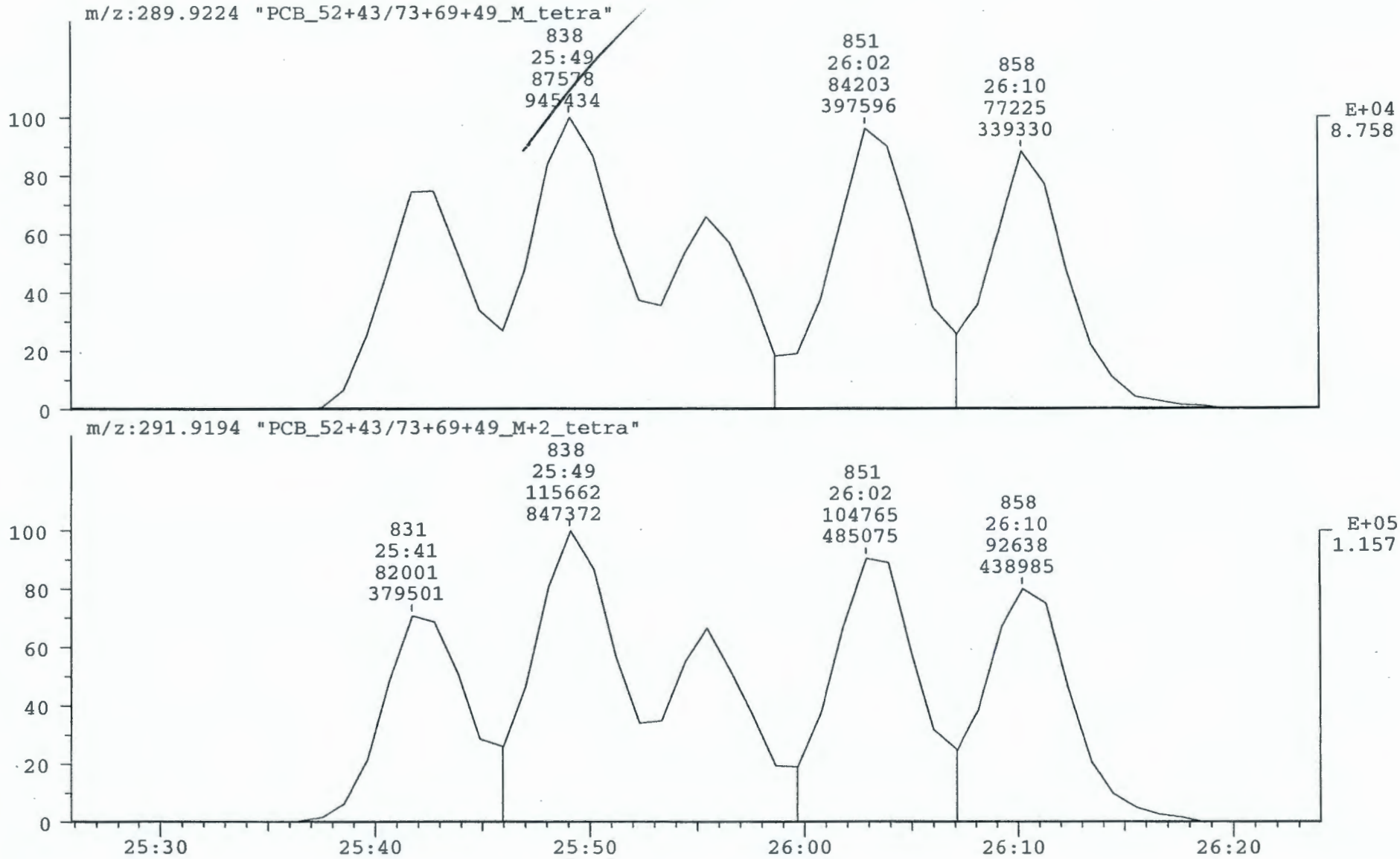
2846

CHRO: a071015s1 15-Oct-07 Elapse: 23:49.8 725
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 665 > 780 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



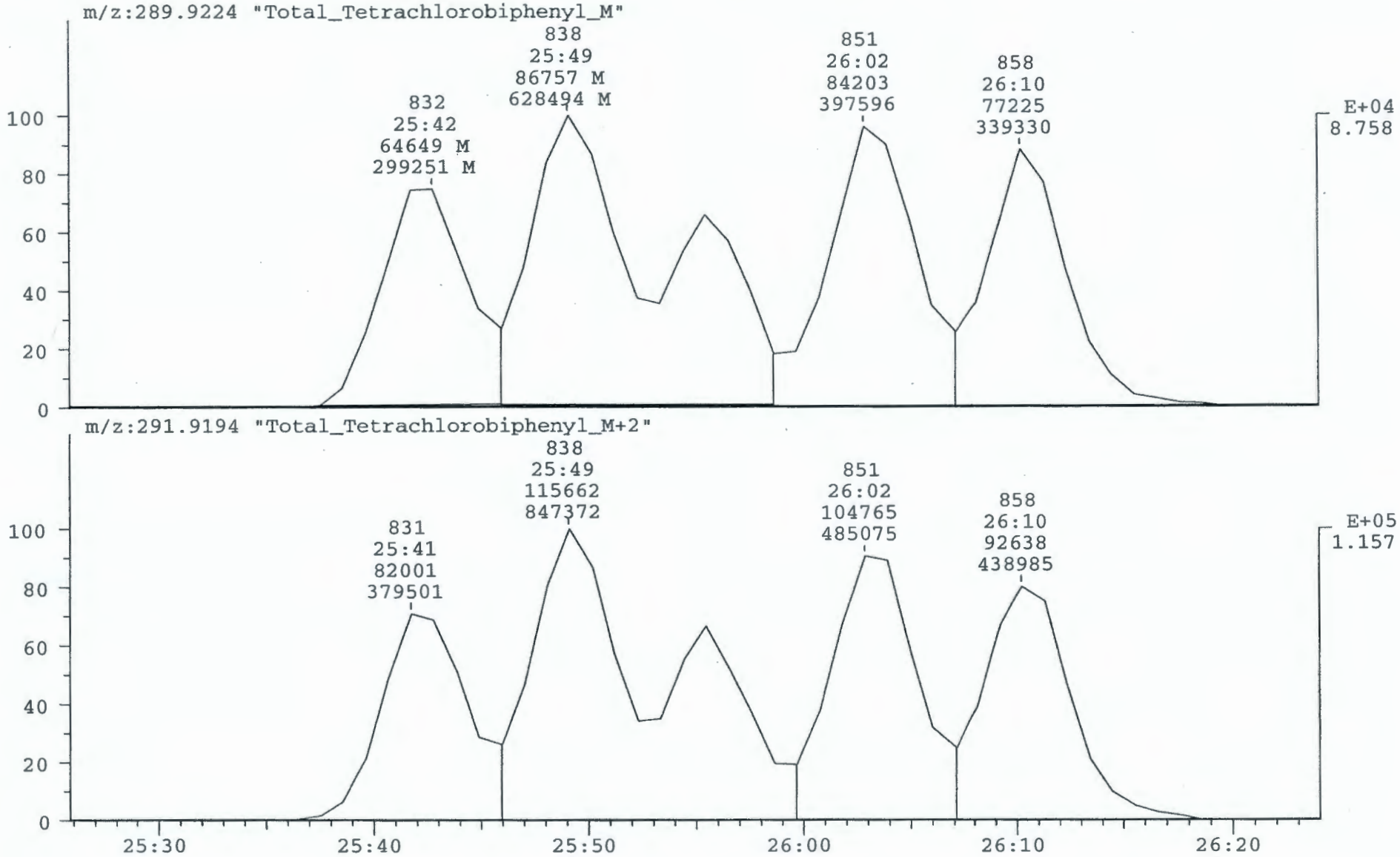
2847

CHRO: a071015s1 15-Oct-07 Elapse: 25:52.3 841
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 816 > 871 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area

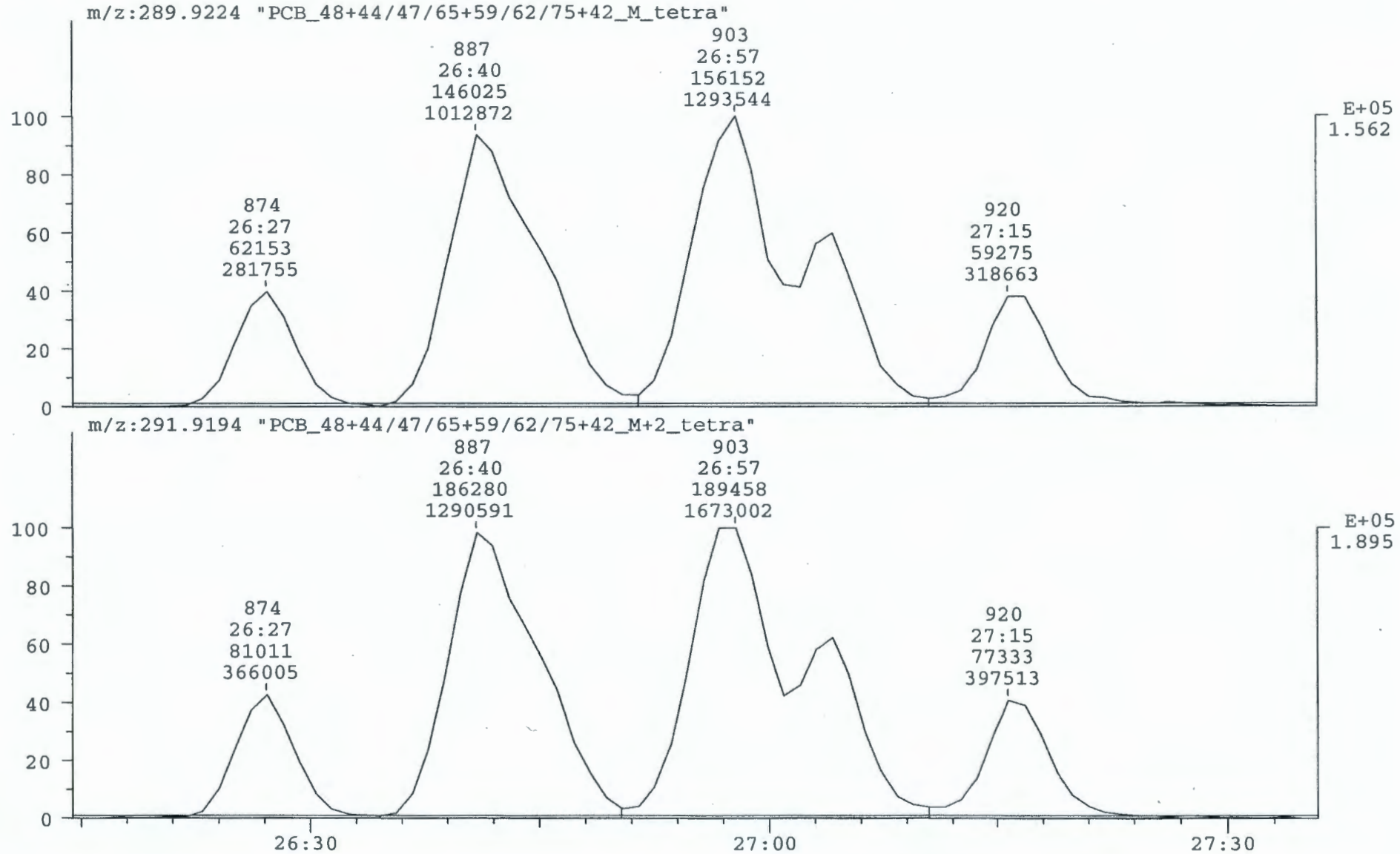


2848

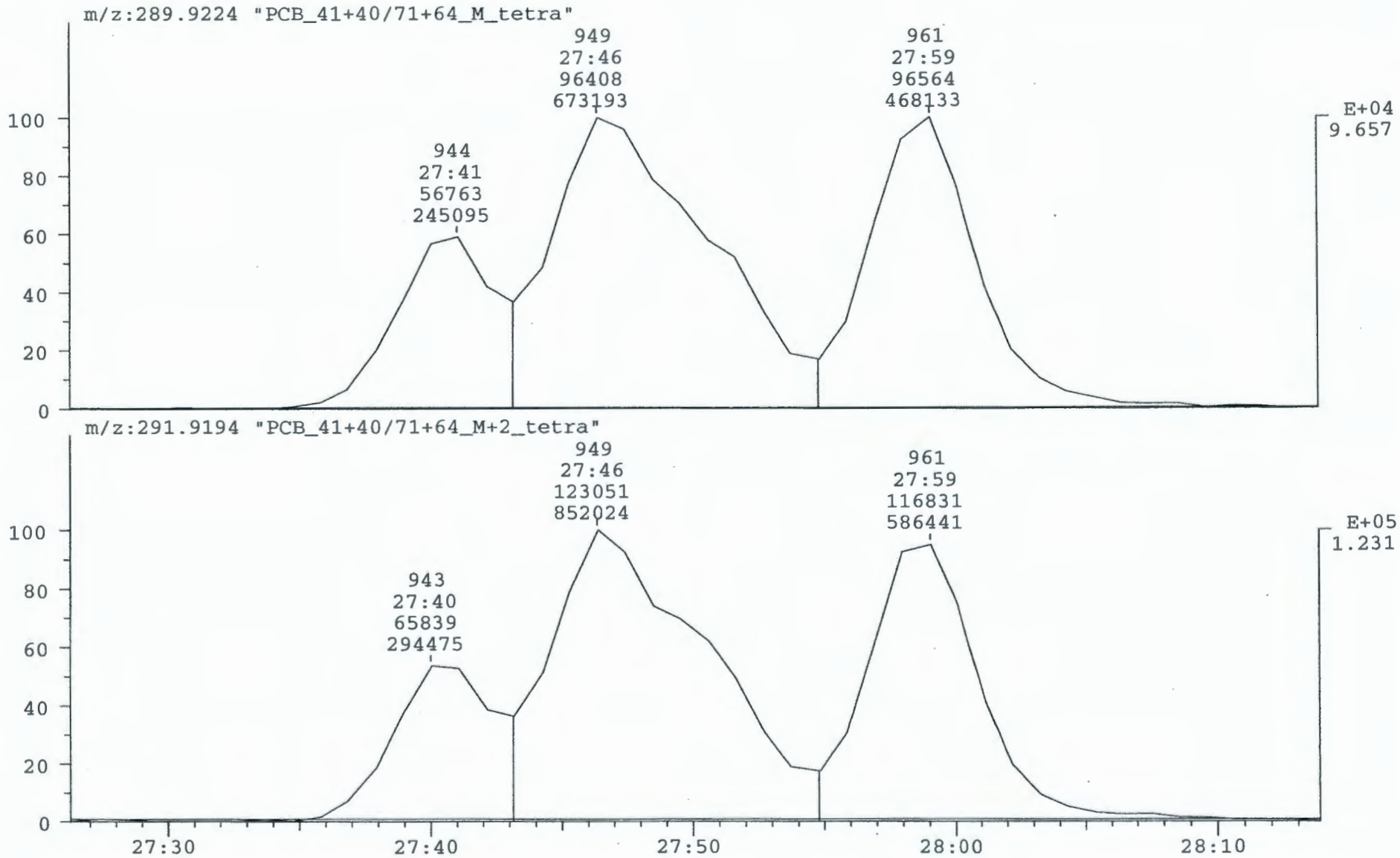
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  56:12      2554
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   816 > 871              Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5                 Label :  -3, 3.0
Disp:  Height  Area
```



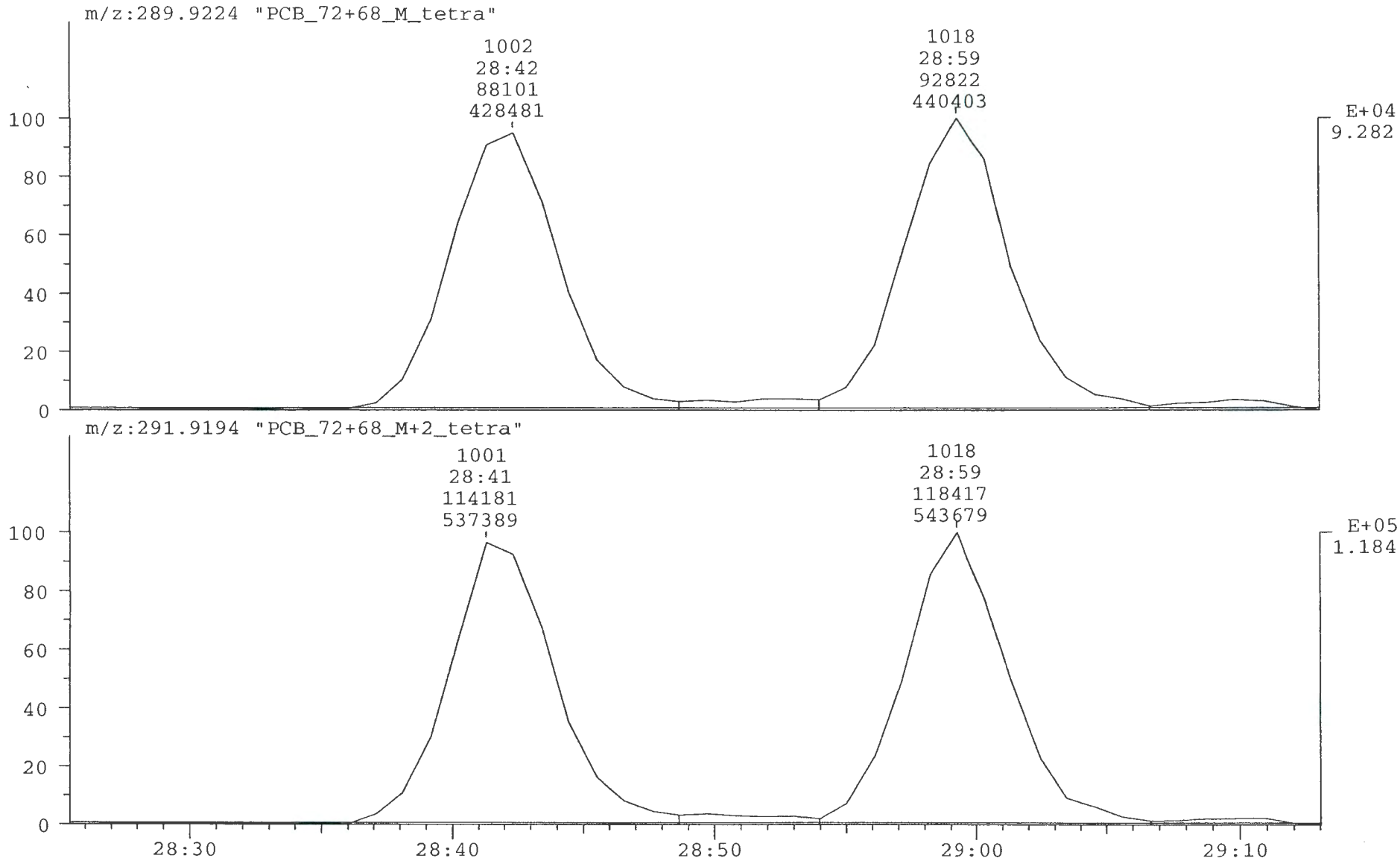
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  26:46.1     892
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   862 > 939             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                                15-Oct-07  Elapse:  27:47.4      950
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   930 > 975            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
```

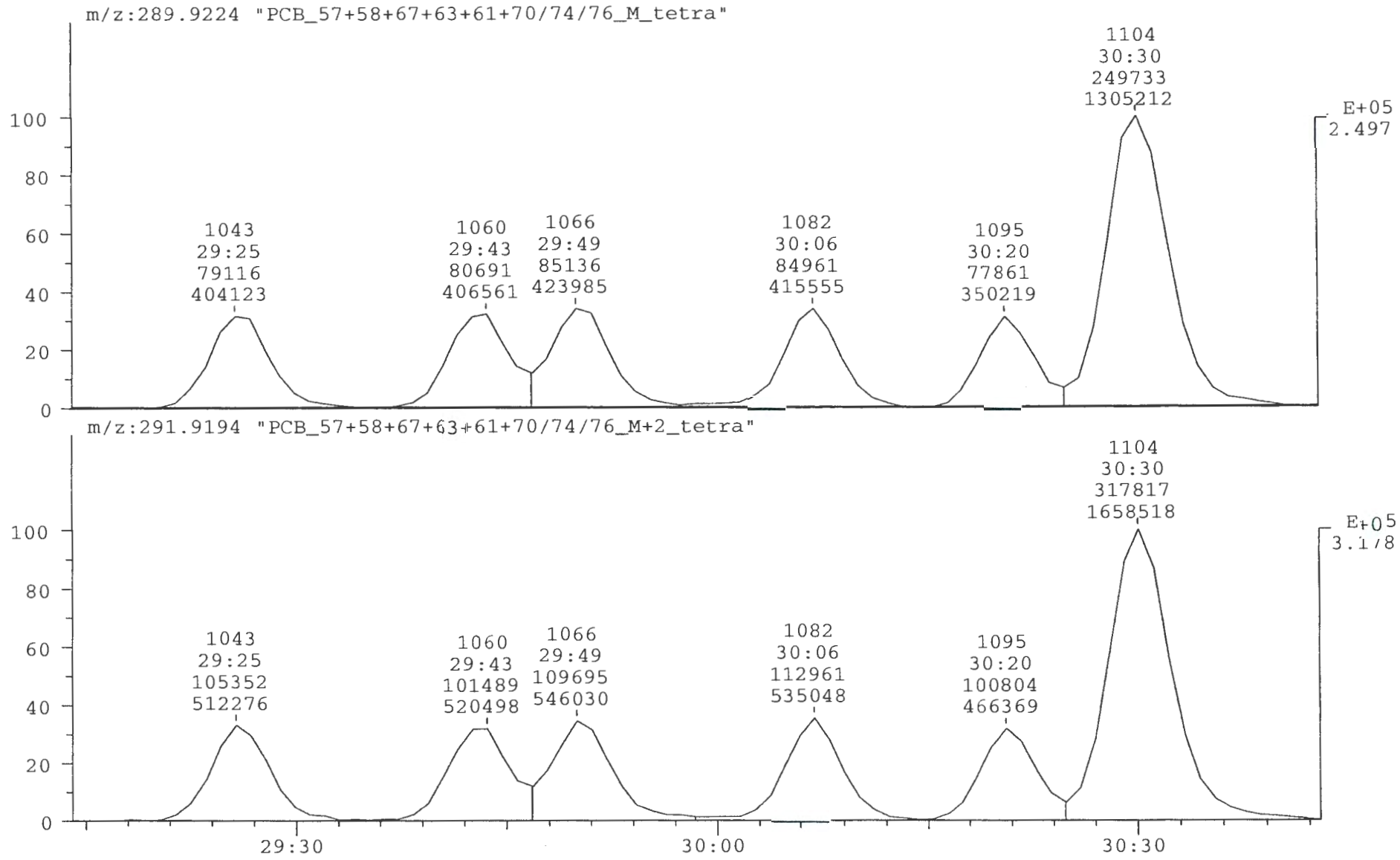


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  28:46      1006
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   986 > 1031            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



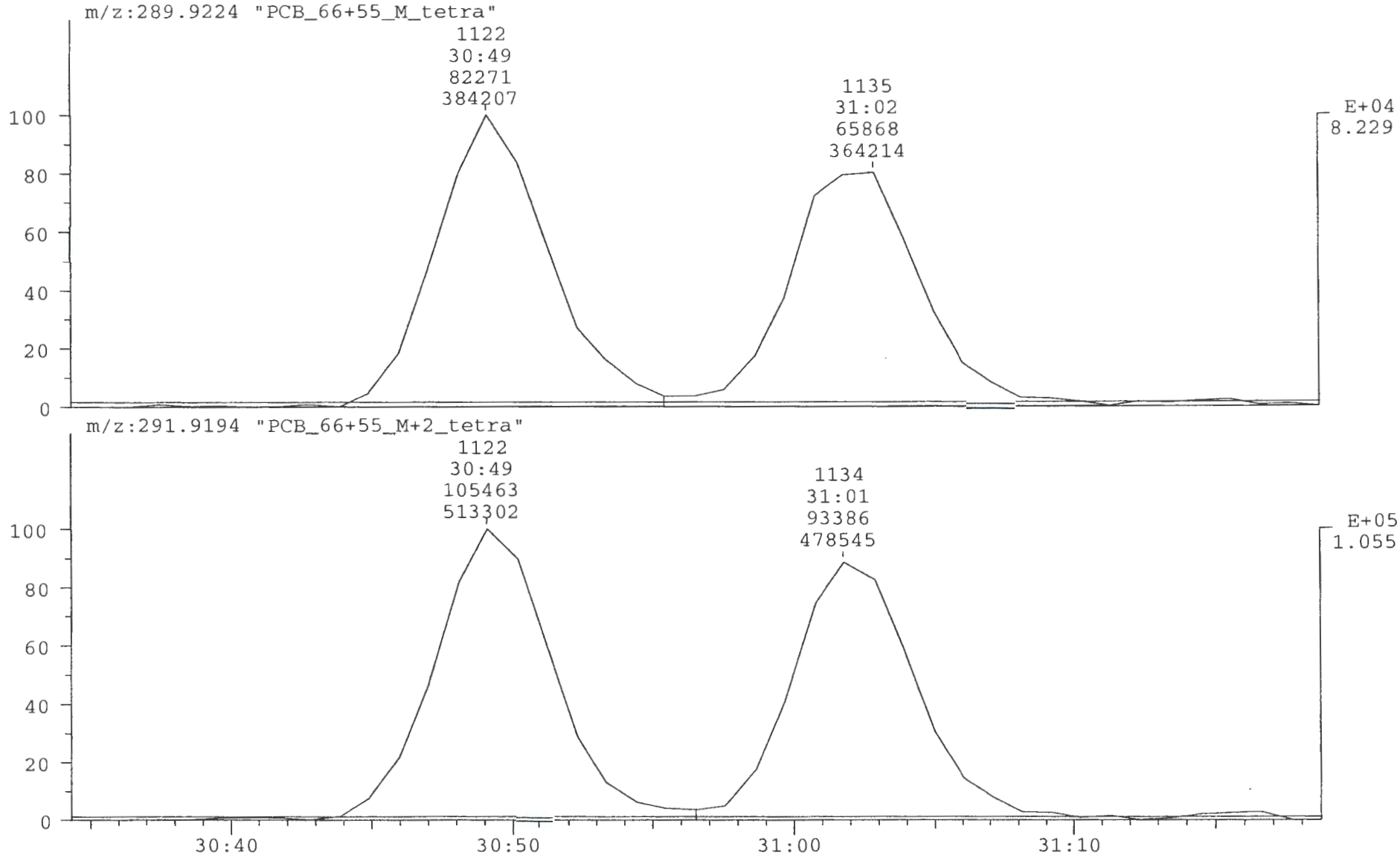
2852

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  29:53       1069
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1032 > 1116           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



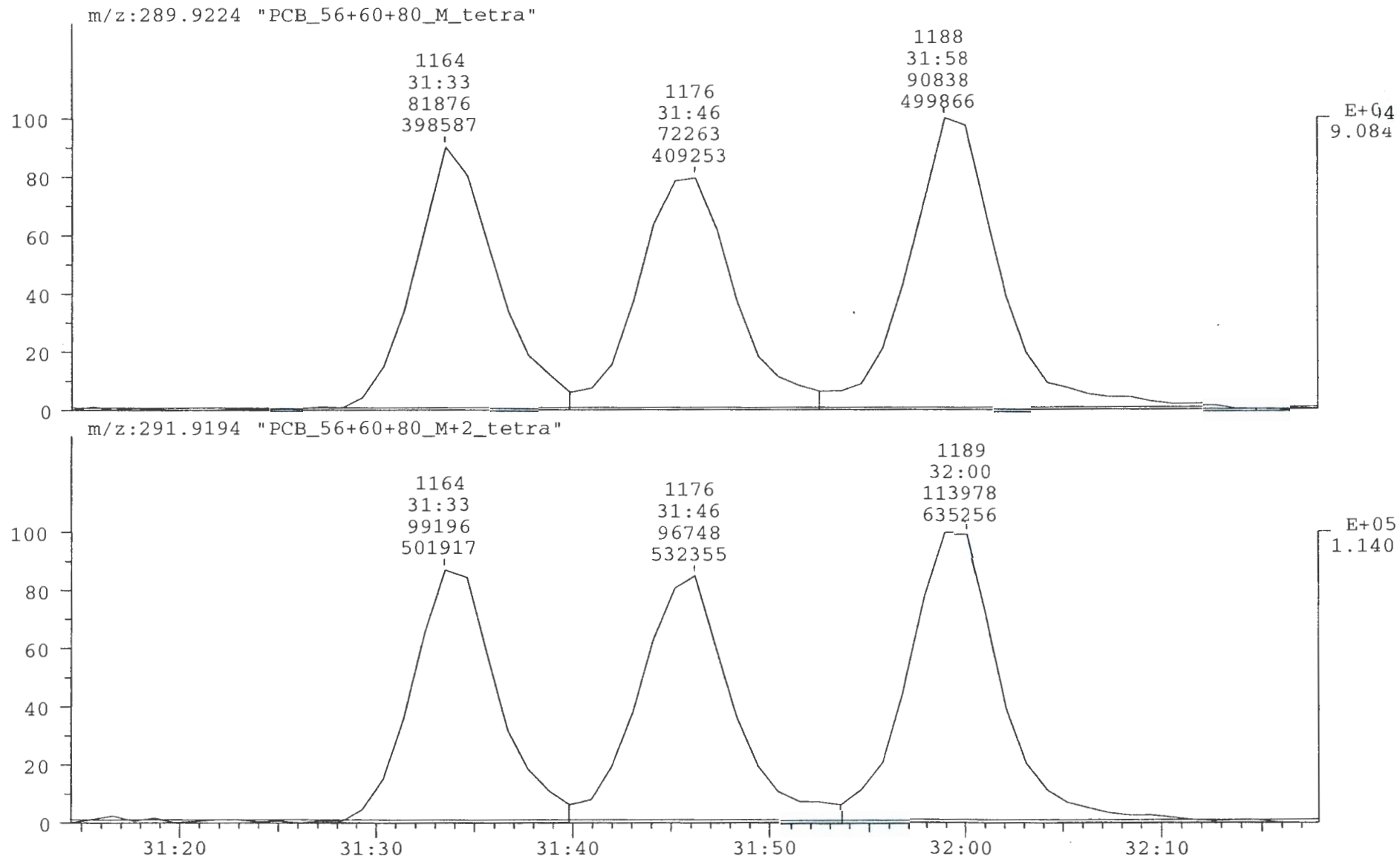
2853

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  30:50      1123
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1108 > 1150           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



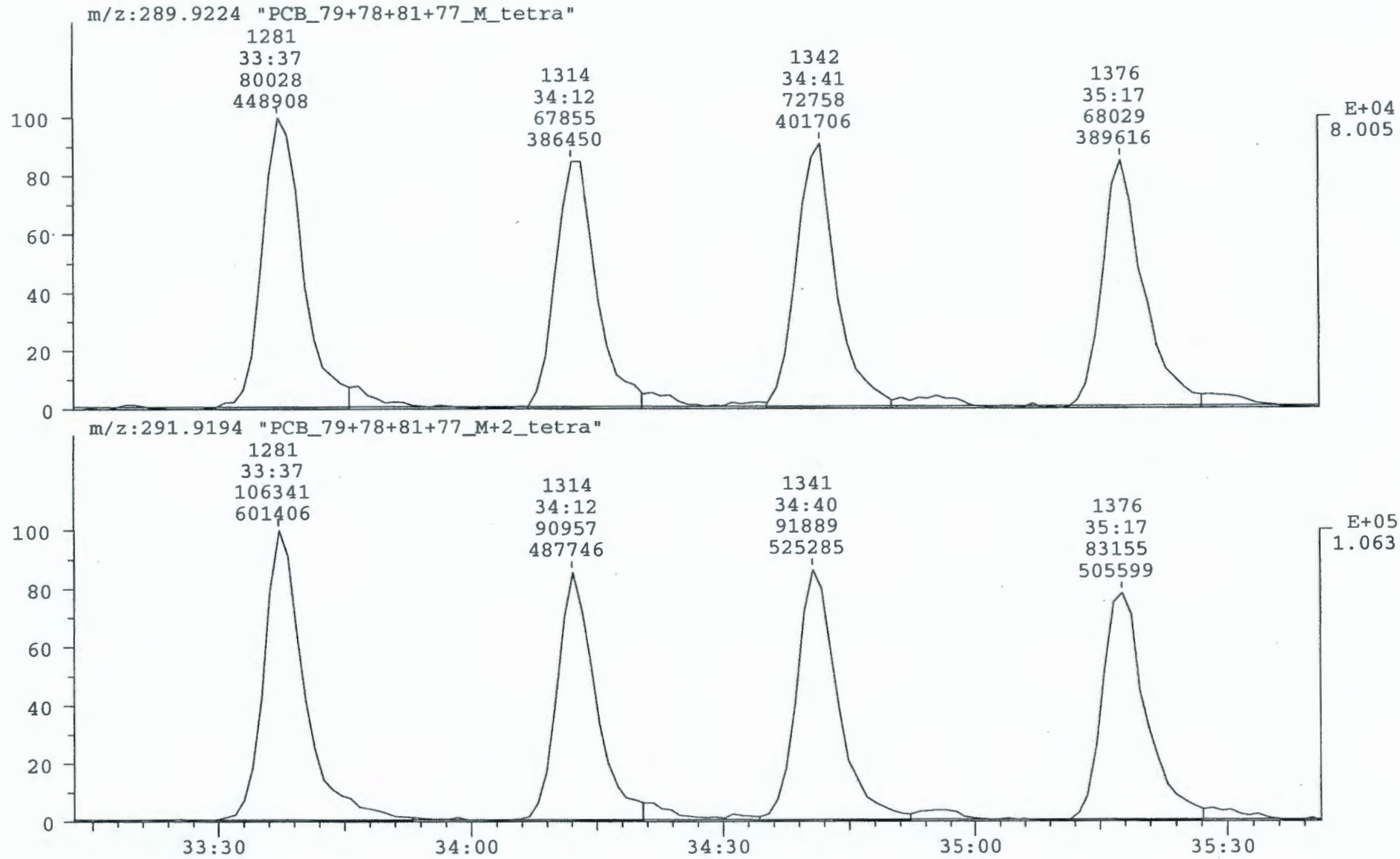
2854

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  31:40      1171
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1146 > 1206            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



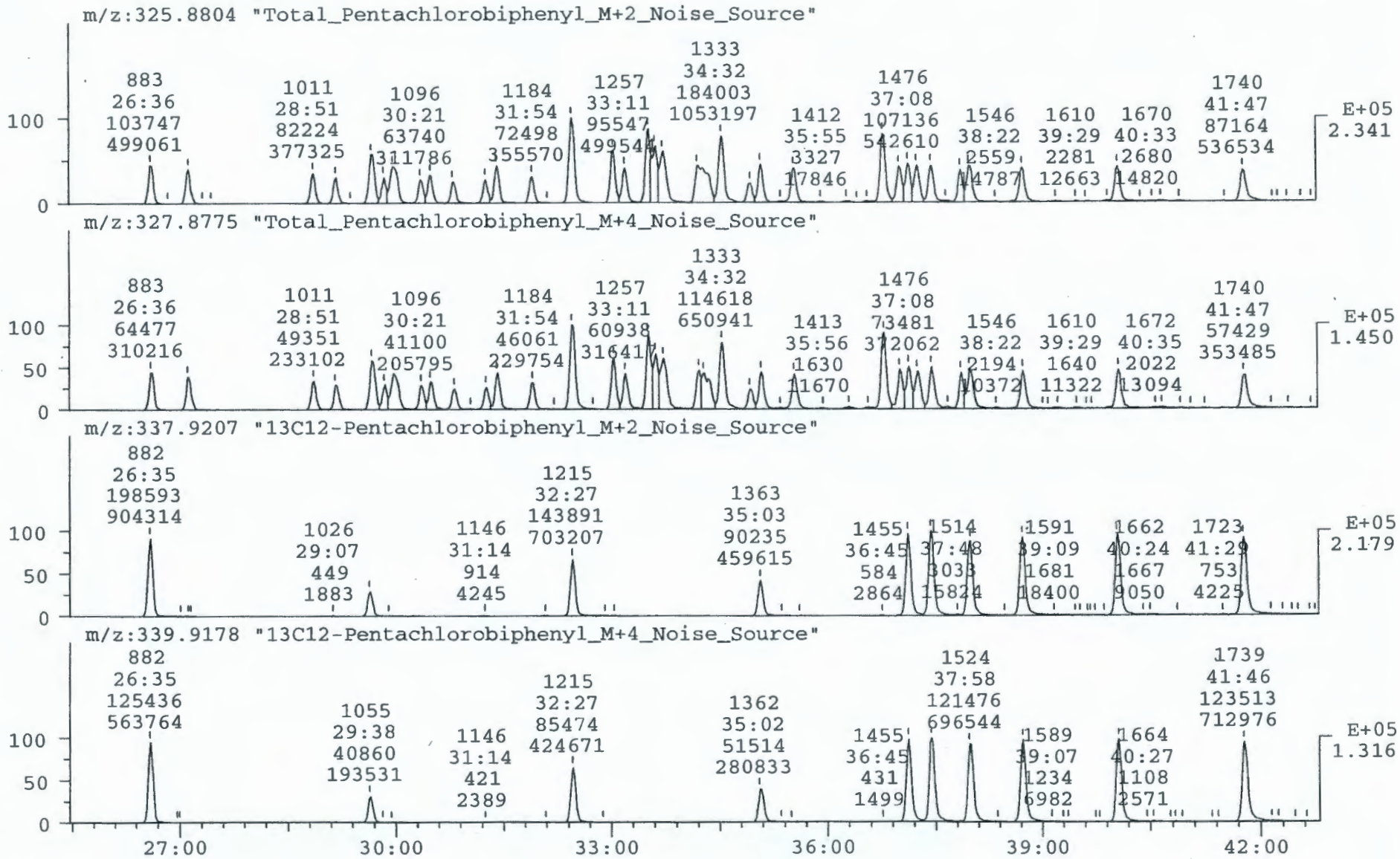
2855

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  34:16      1318
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1258 > 1398           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



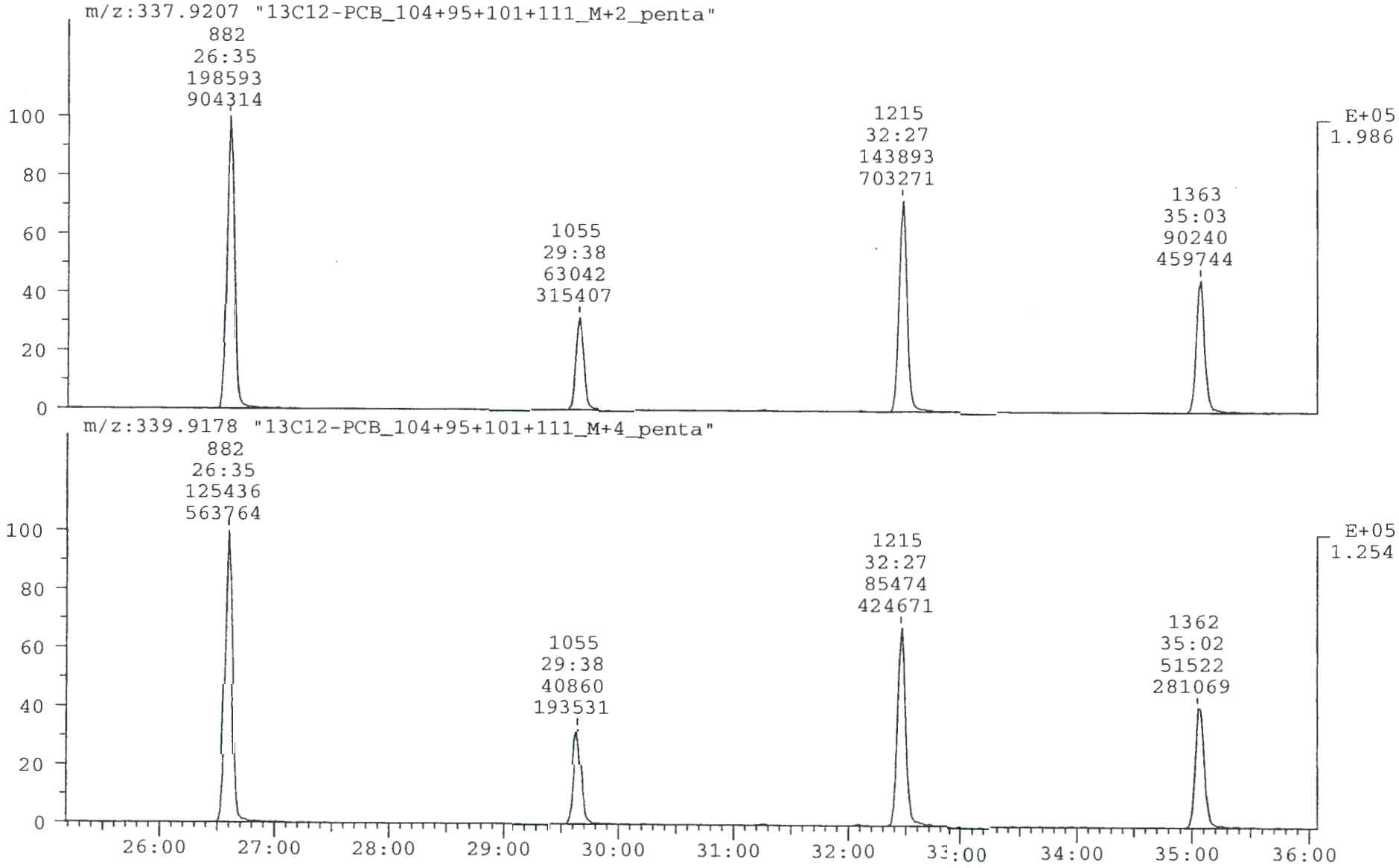
2856

CHRO: a071015s1 15-Oct-07 Elapse: 34:07 1310
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 818 > 1797 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



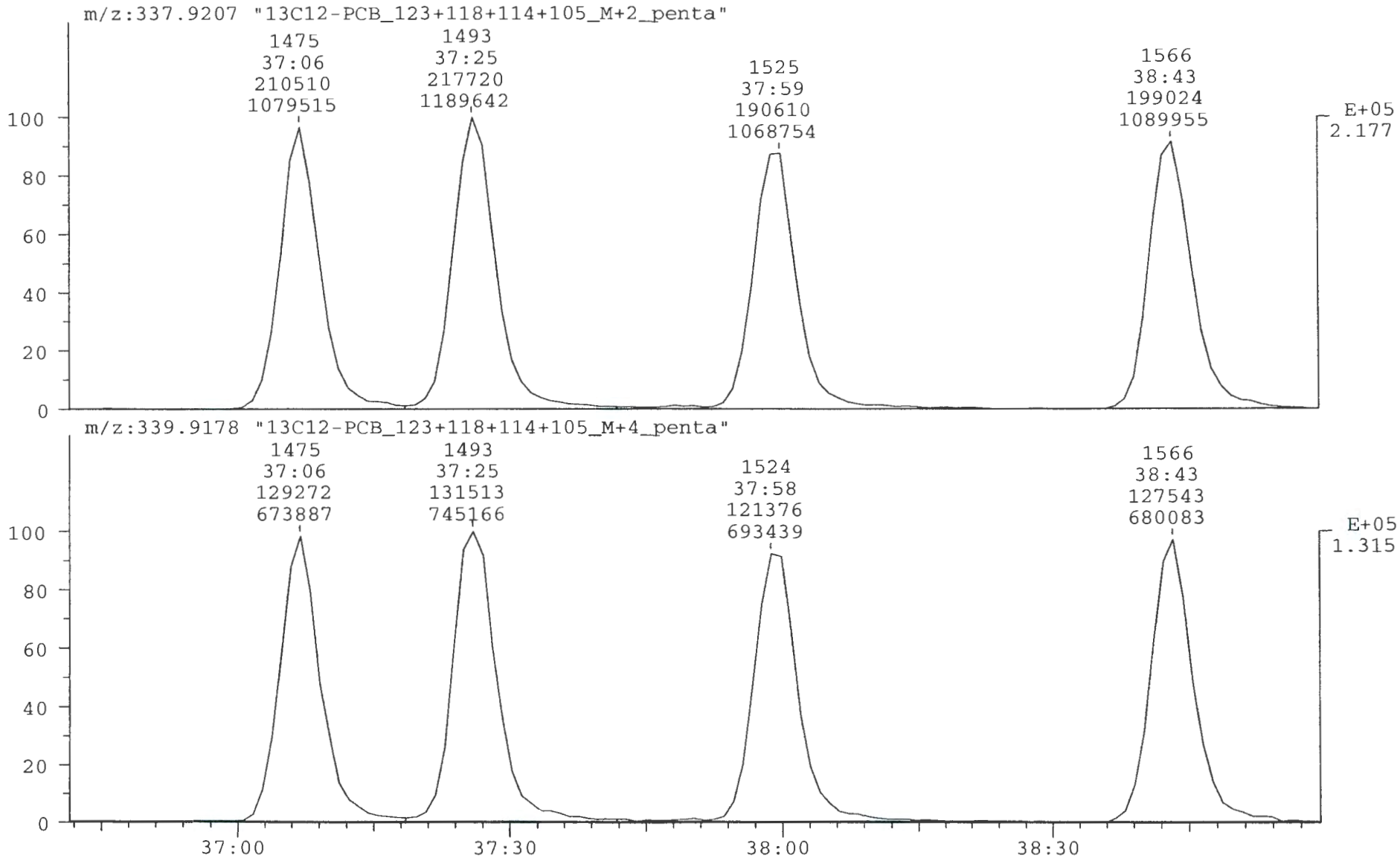
2857

CHRO: a071015s1 15-Oct-07 Elapse: 30:37 1111
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 802 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



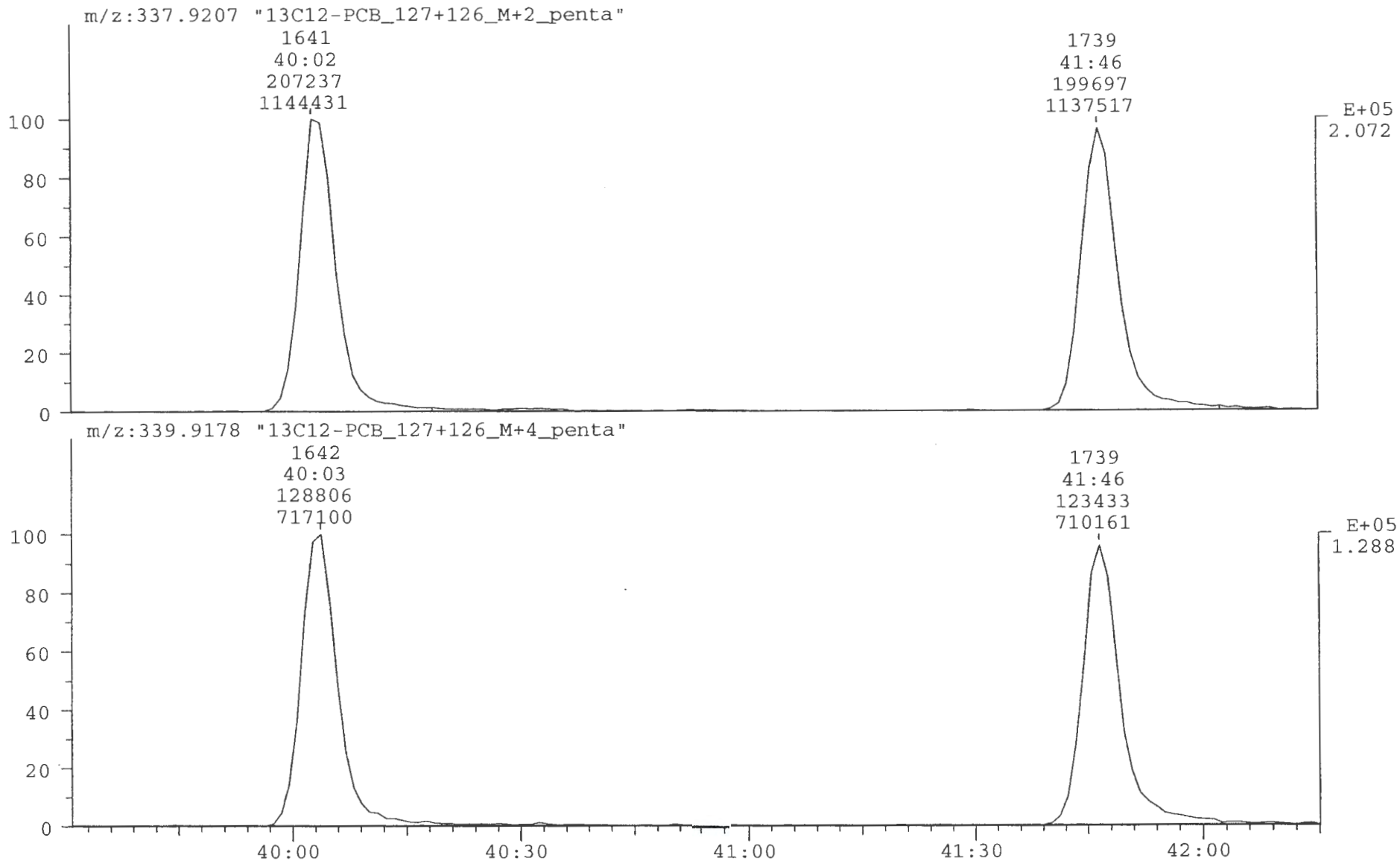
2858

CHRO: a071015s1 15-Oct-07 Elapse: 37:50 1516
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1451 > 1581 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



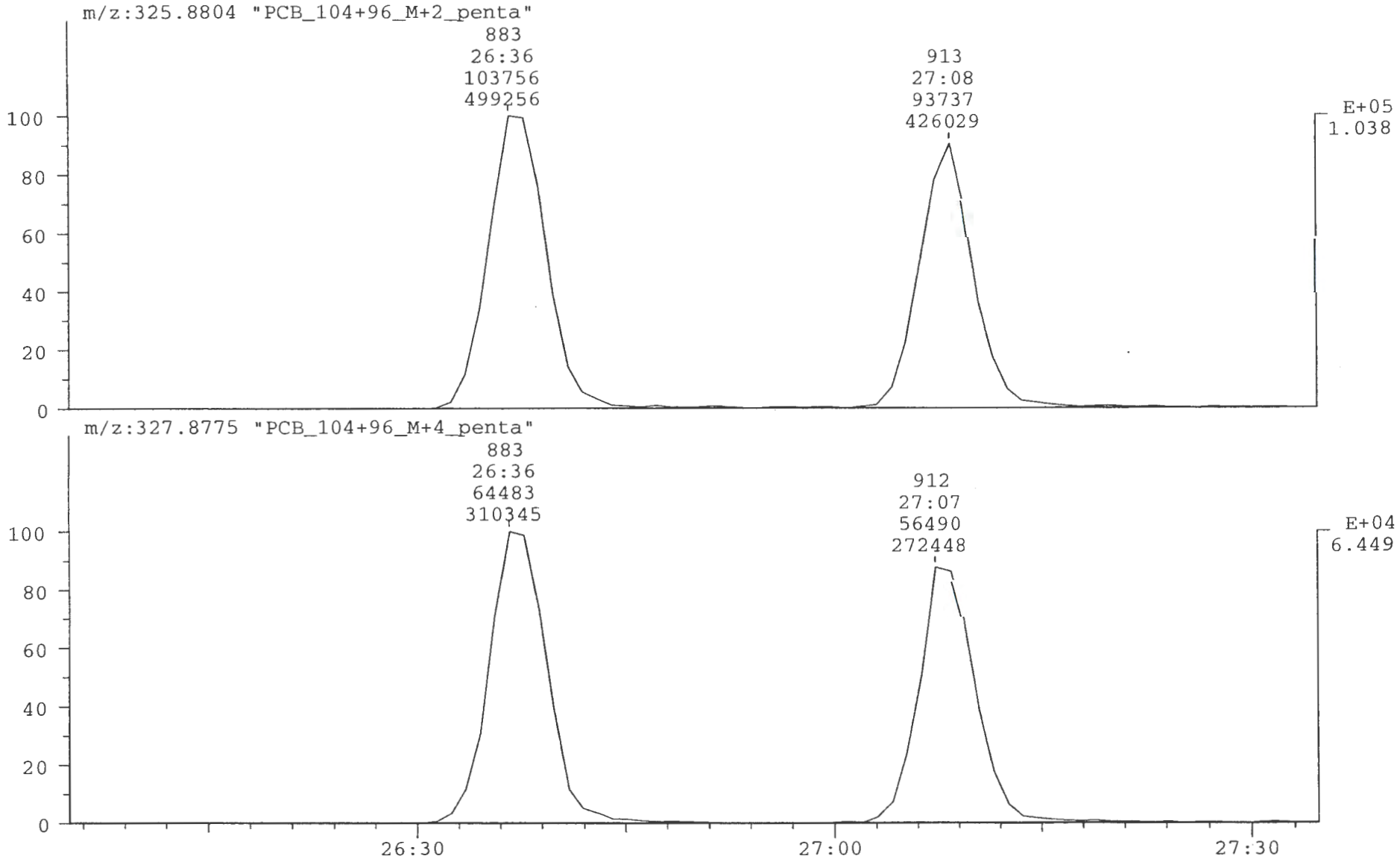
2859

CHRO: a071015s1 15-Oct-07 Elapse: 40:50 1686
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1611 > 1766 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



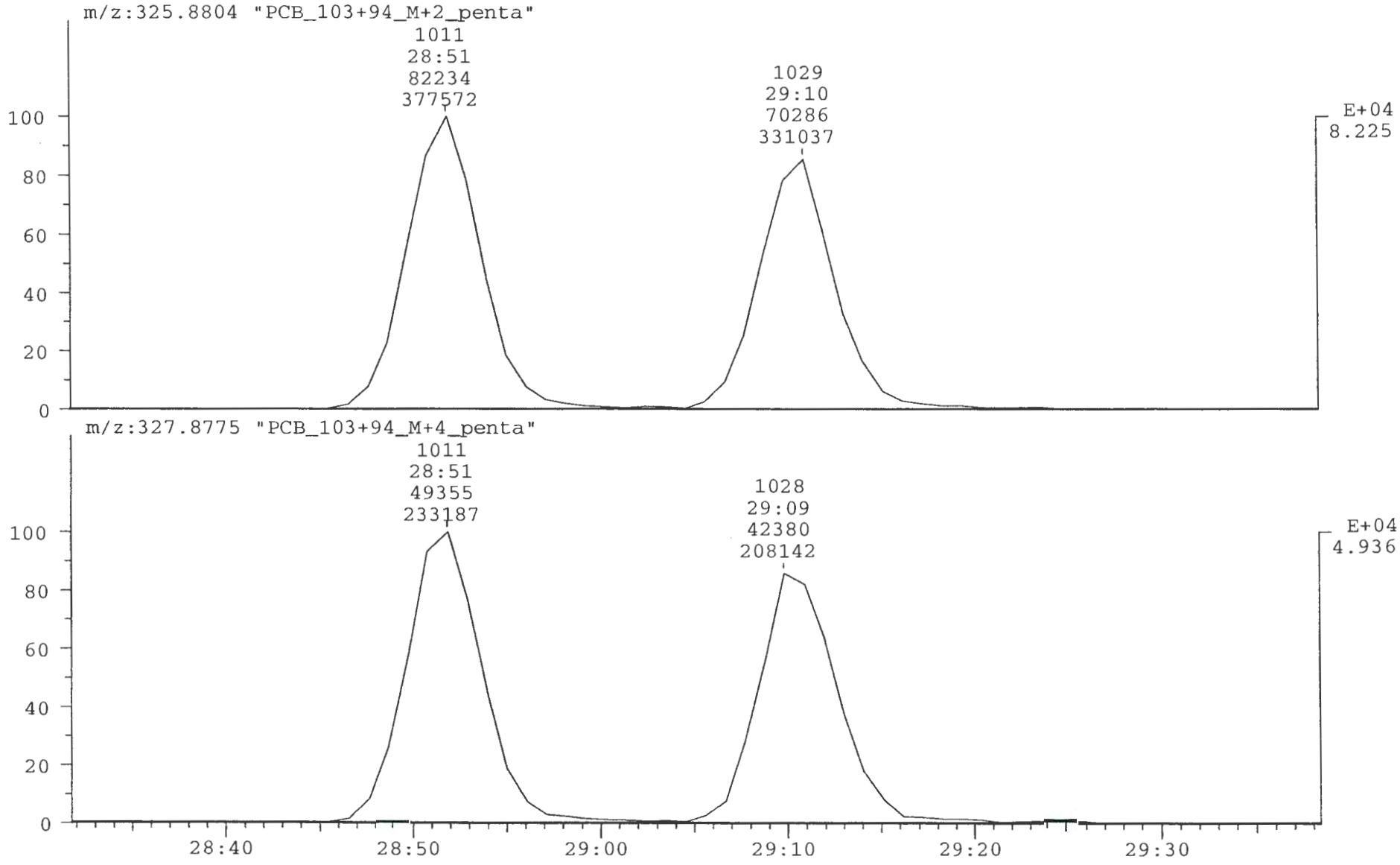
2860

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  26:47.2      893
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   853 > 938             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

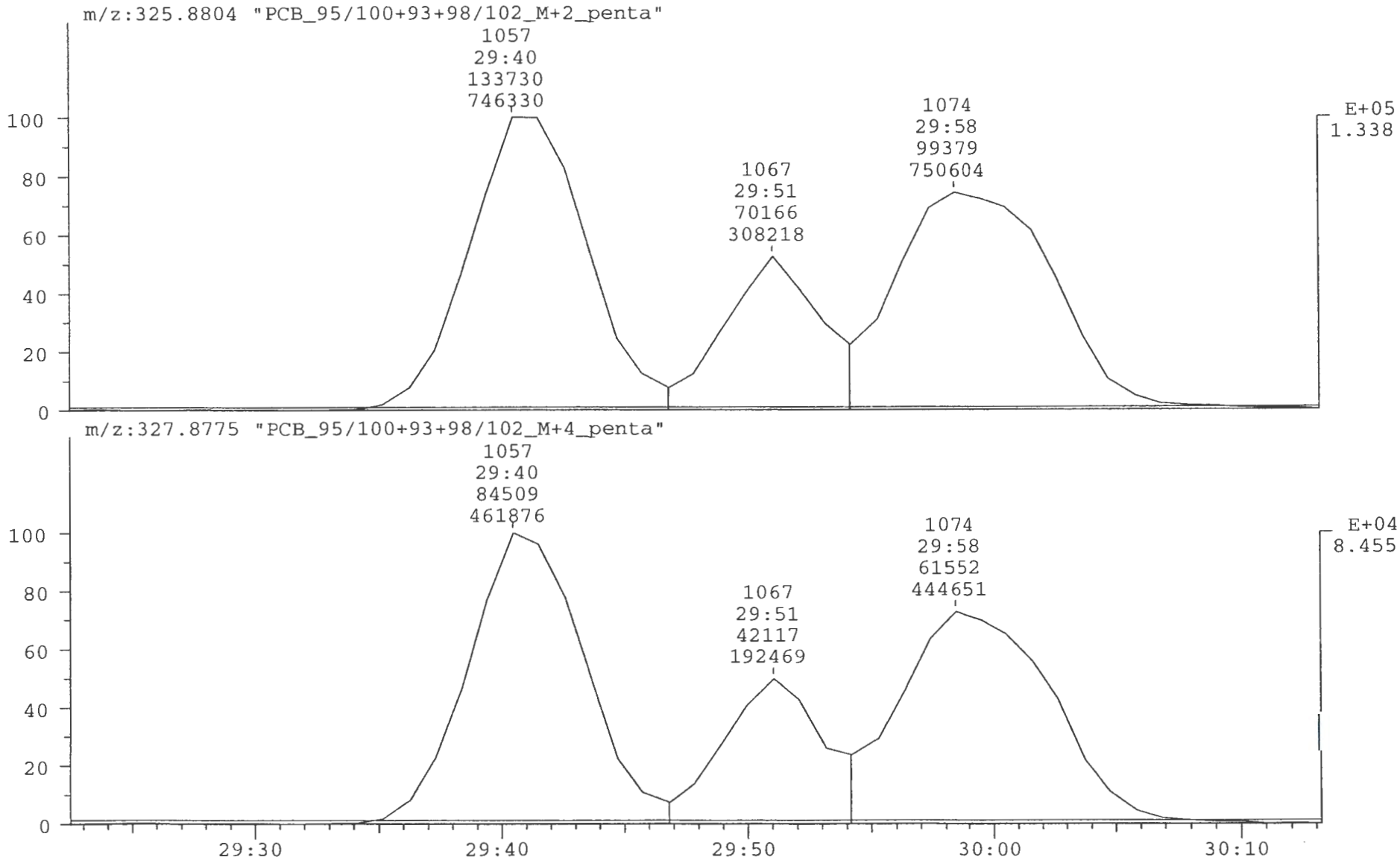


2861

CHRO: a071015s1 15-Oct-07 Elapse: 28:58 1017
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 992 > 1055 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

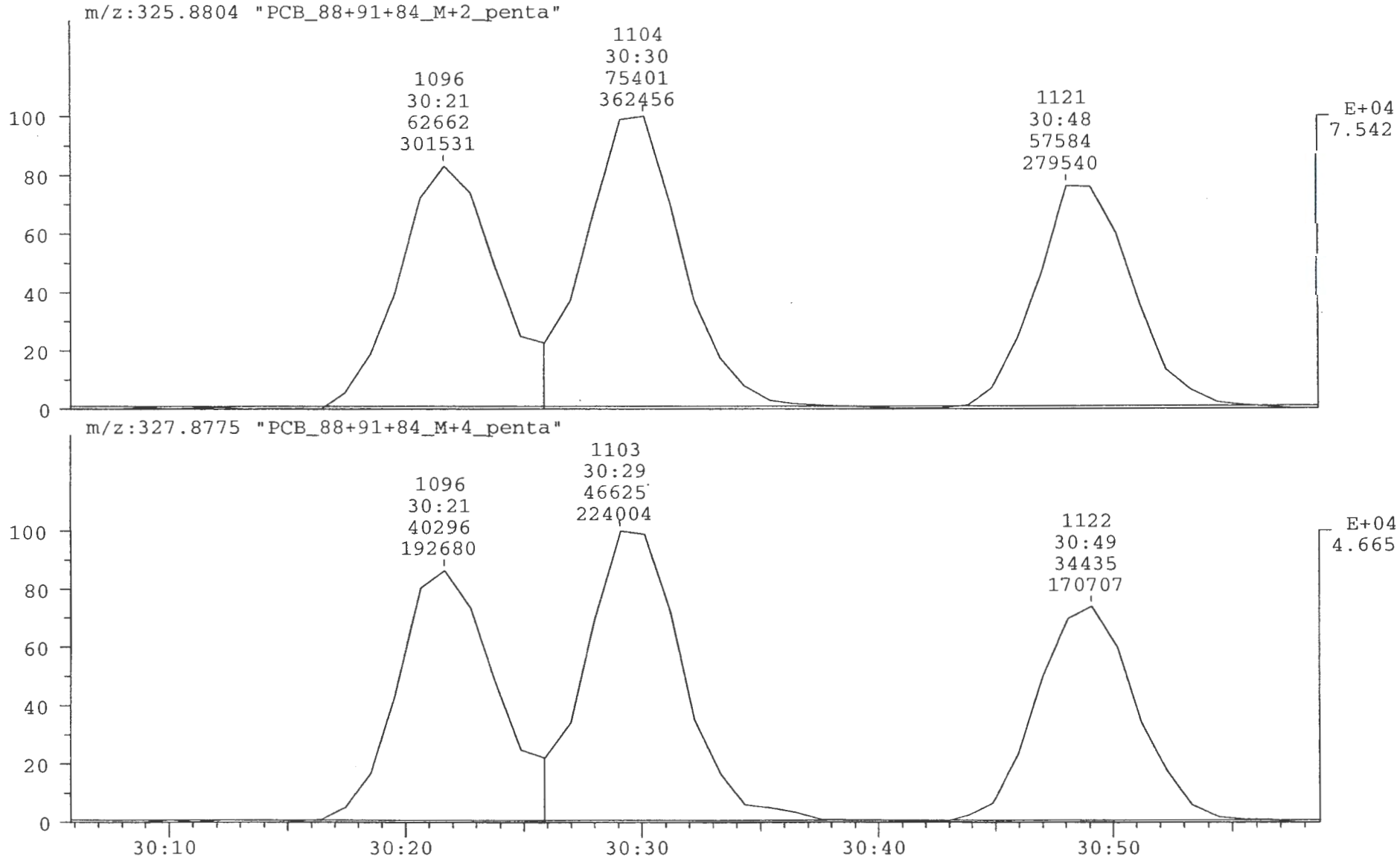


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  29:43      1060
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1040 > 1088           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 4                Label :  -3, 3.0
Disp:  Height  Area
```

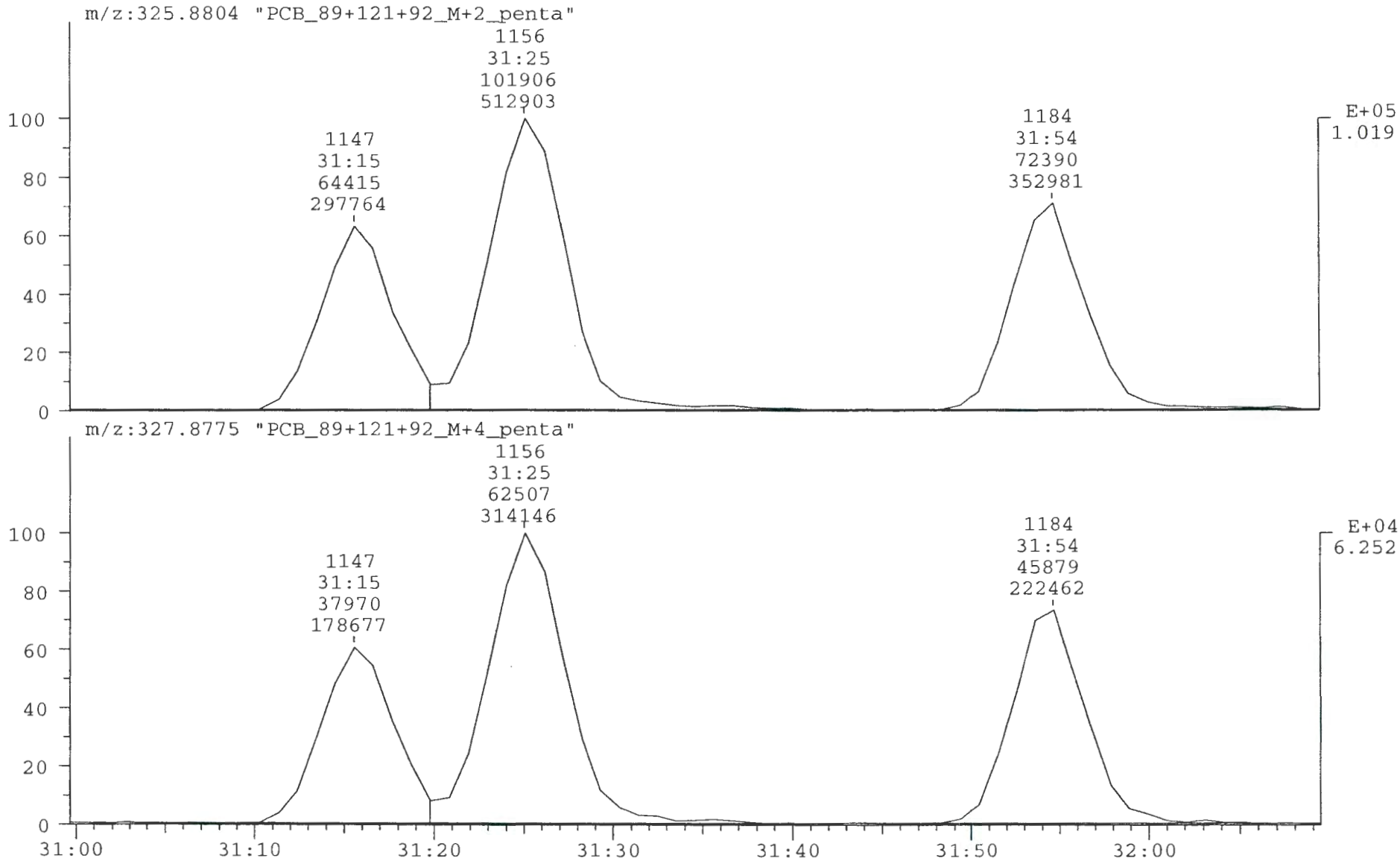


2863

```
CHRO:  a071015s1                                  15-Oct-07   Elapse:  30:30      1104
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                       Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                              Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1081 > 1131             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                  Label :  -3, 3.0
Disp:  Height  Area
```

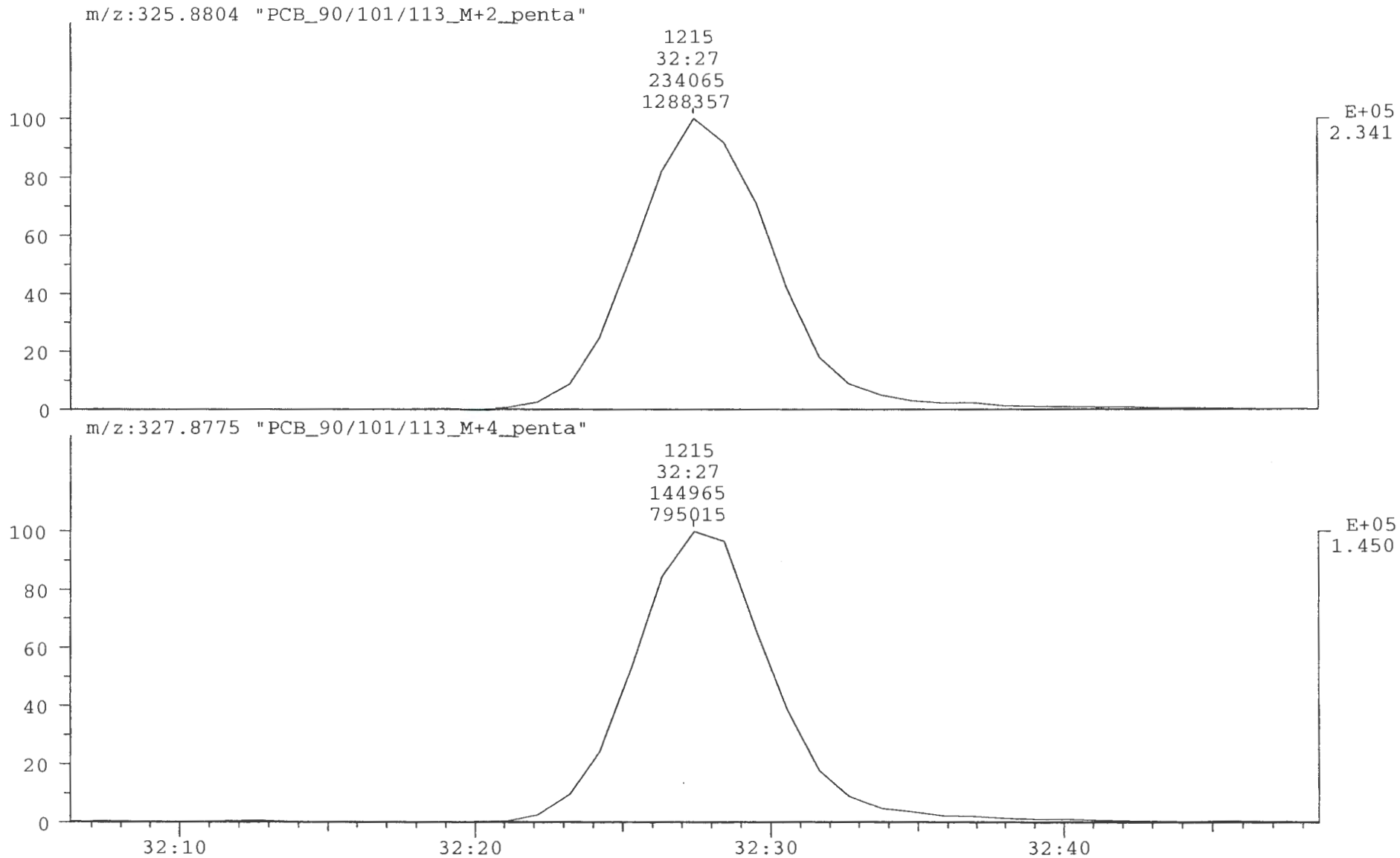


CHRO: a071015s1 15-Oct-07 Elapse: 31:31 1162
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1132 > 1198 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



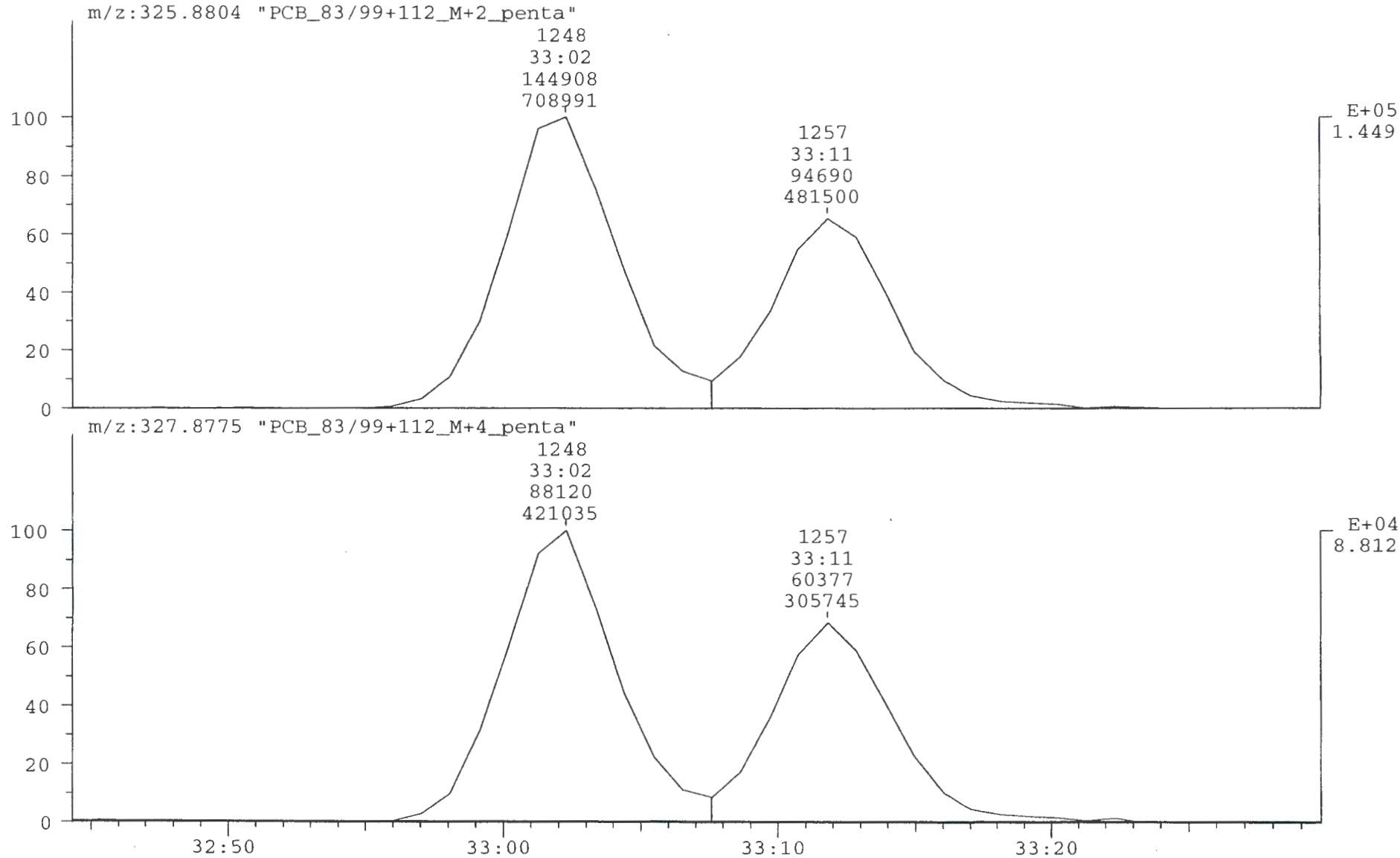
2865

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  32:22      1210
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1195 > 1235            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



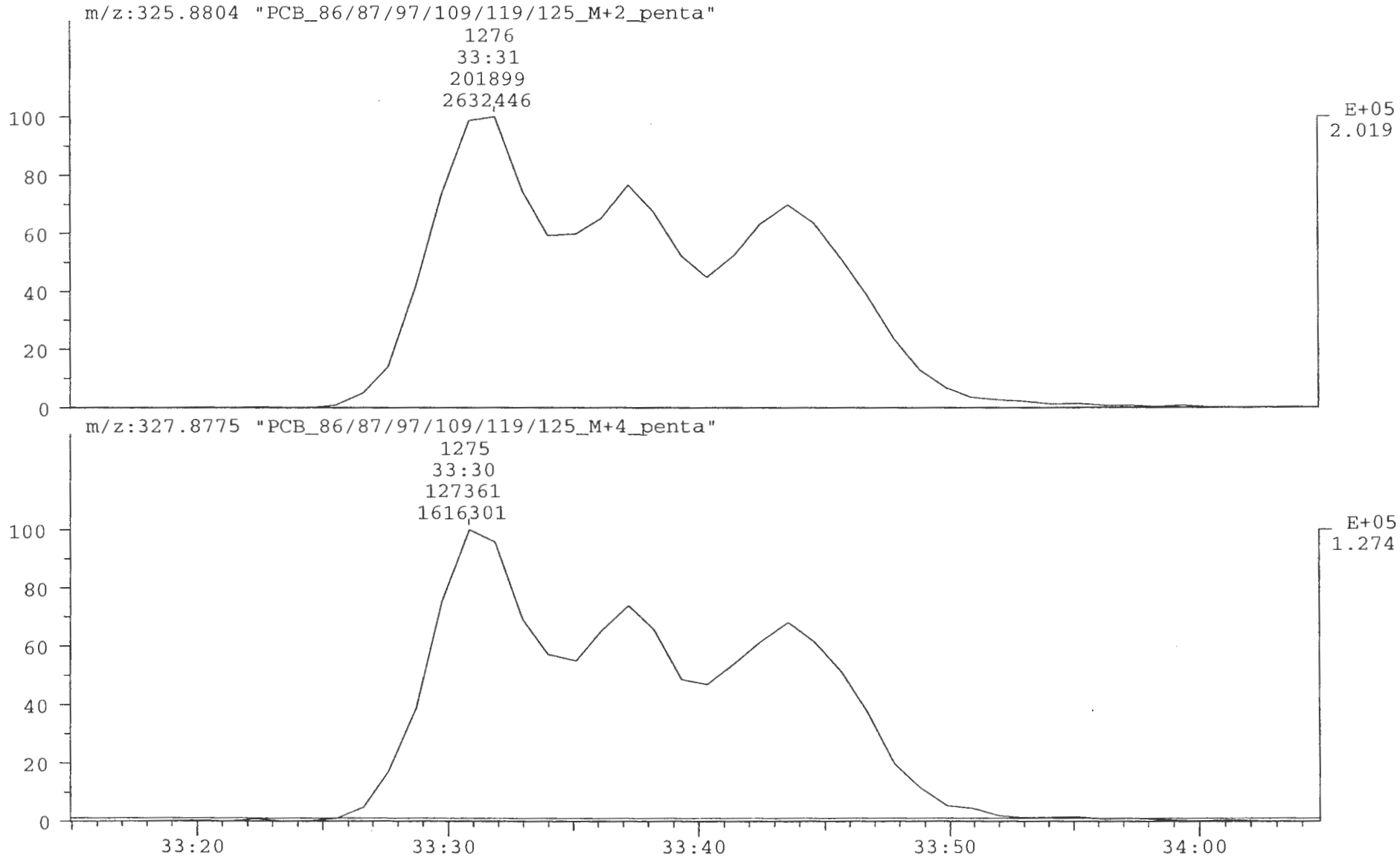
2866

```
CHRO:  a071015s1                              15-Oct-07   Elapse:  33:03      1249
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1231 > 1274         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



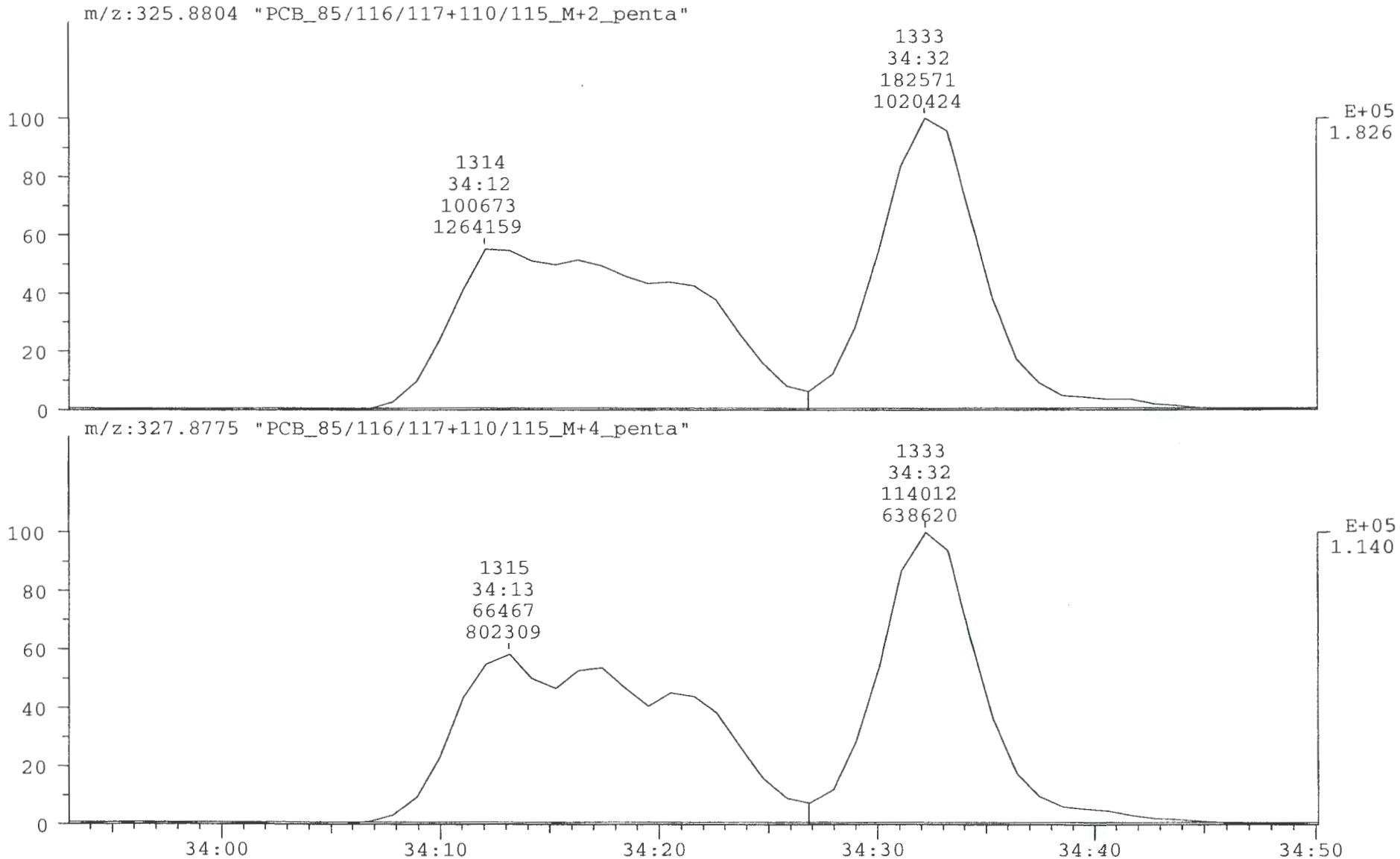
2867

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  33:36      1280
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1260 > 1307           Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 12               Label :  -3, 3.0
Disp:  Height  Area
```



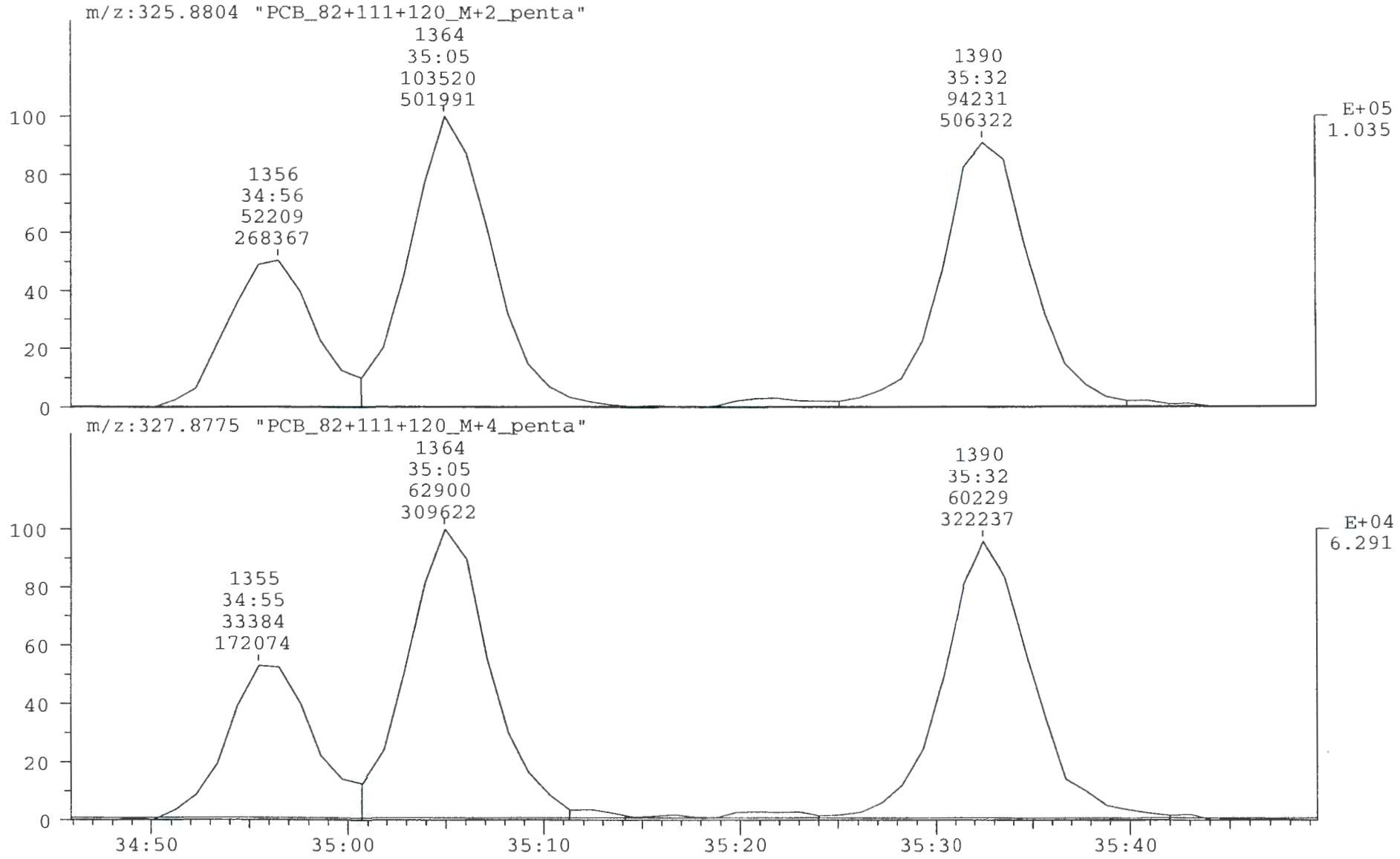
2868

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  34:22      1324
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1296 > 1350           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 6                Label :  -3, 3.0
Disp:  Height  Area
```

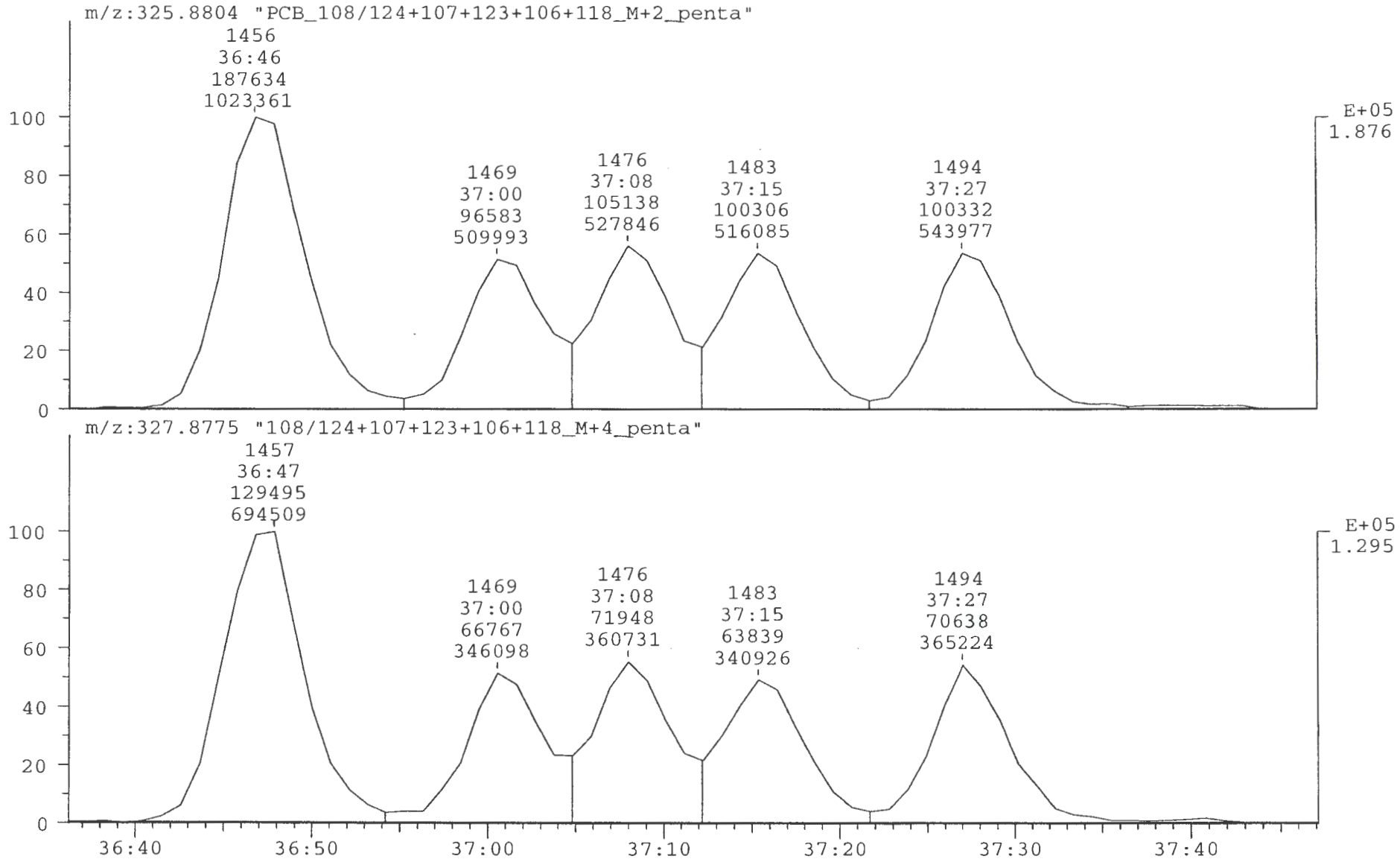


2869

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  34:56      1356
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1346 > 1406           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```

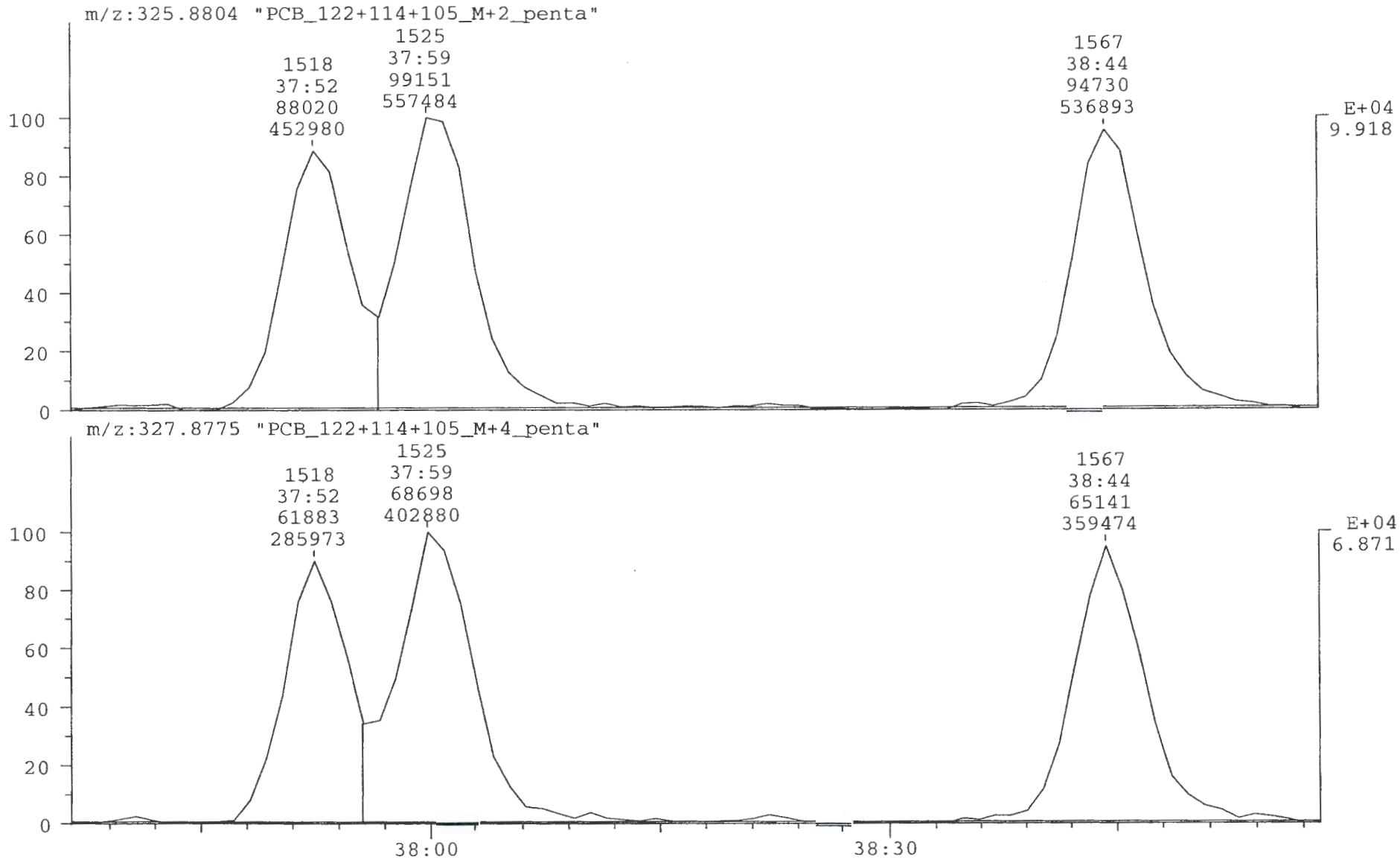


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  37:13      1481
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1446 > 1513            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

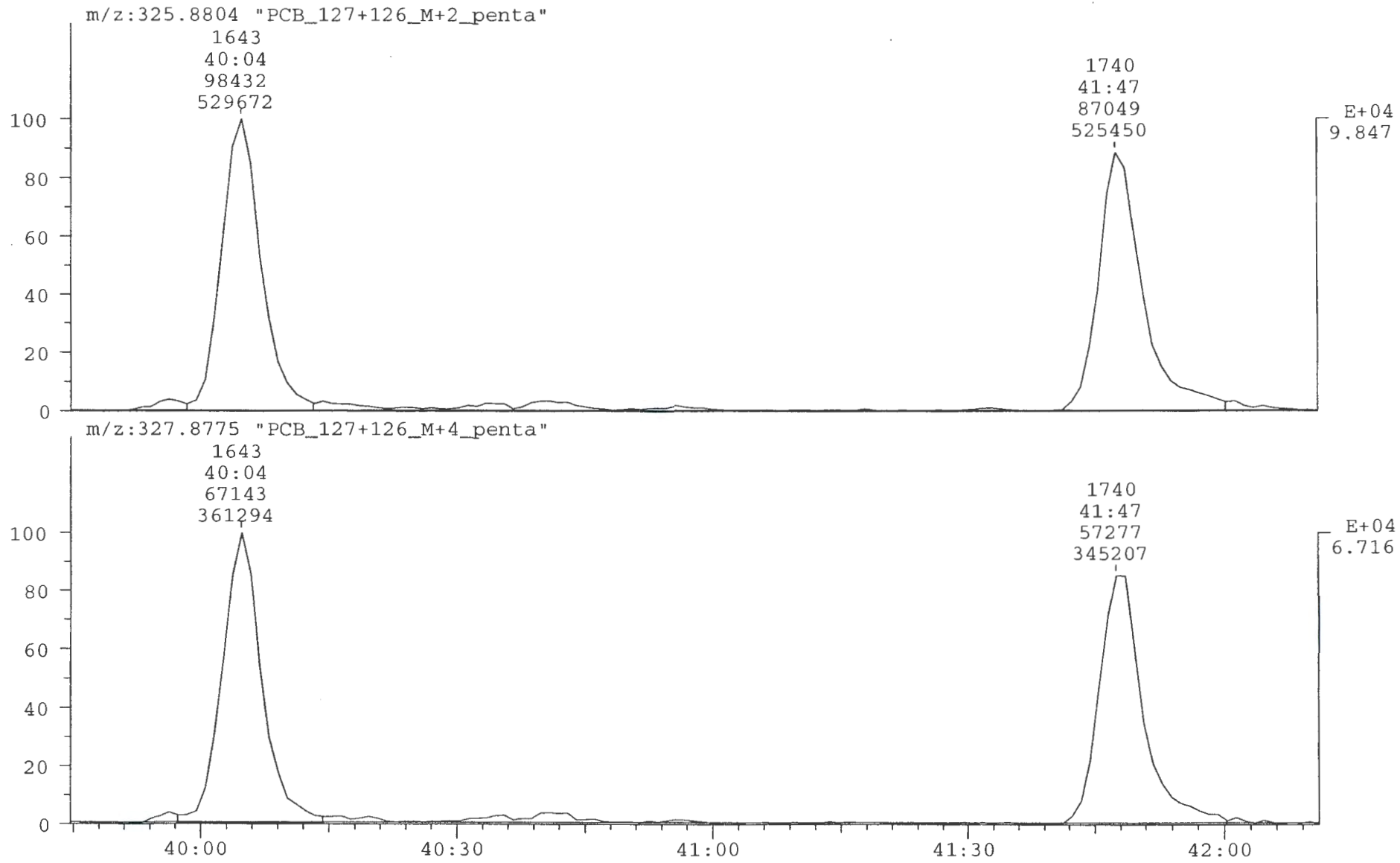


2871

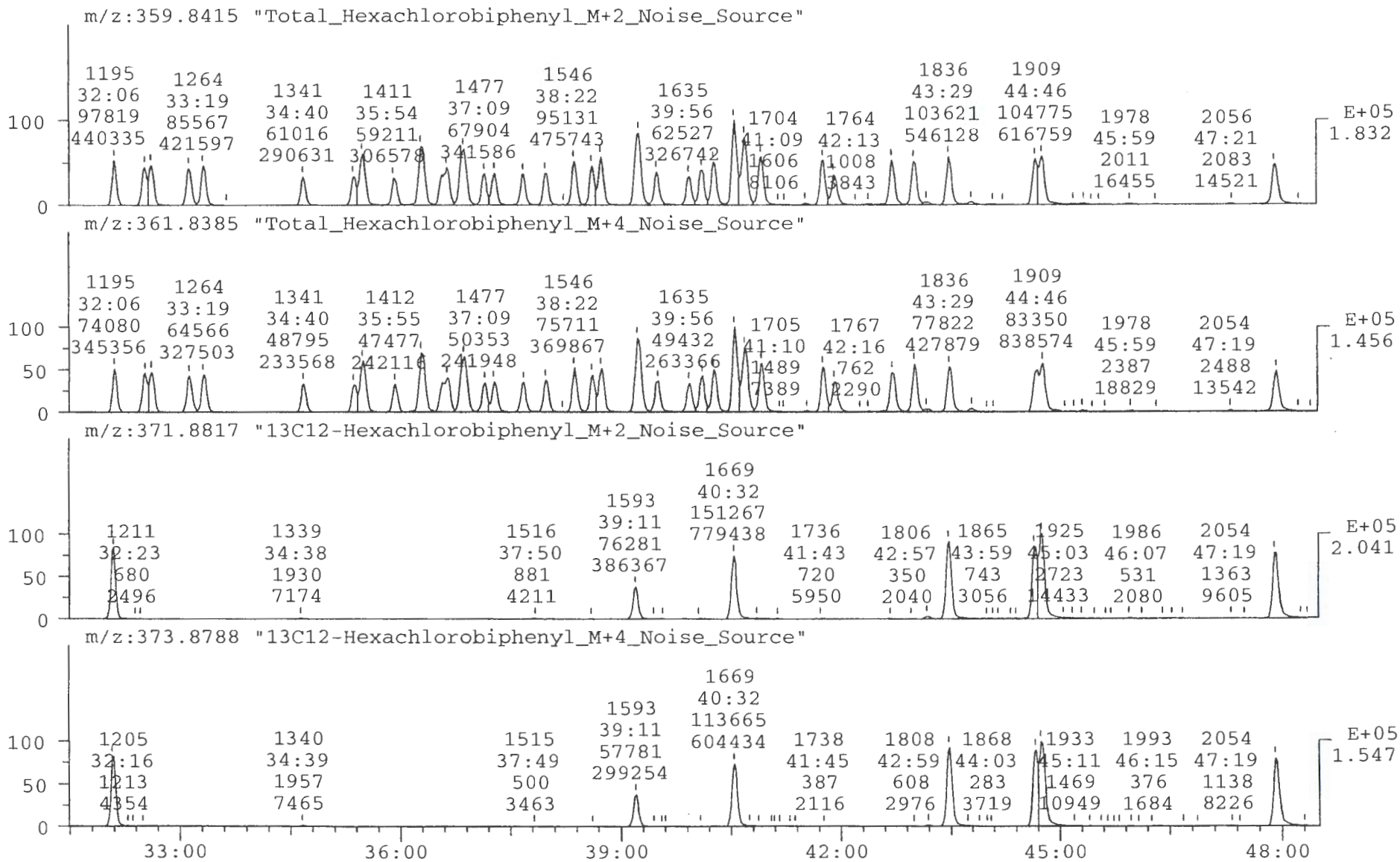
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  38:13      1538
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1503 > 1580           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



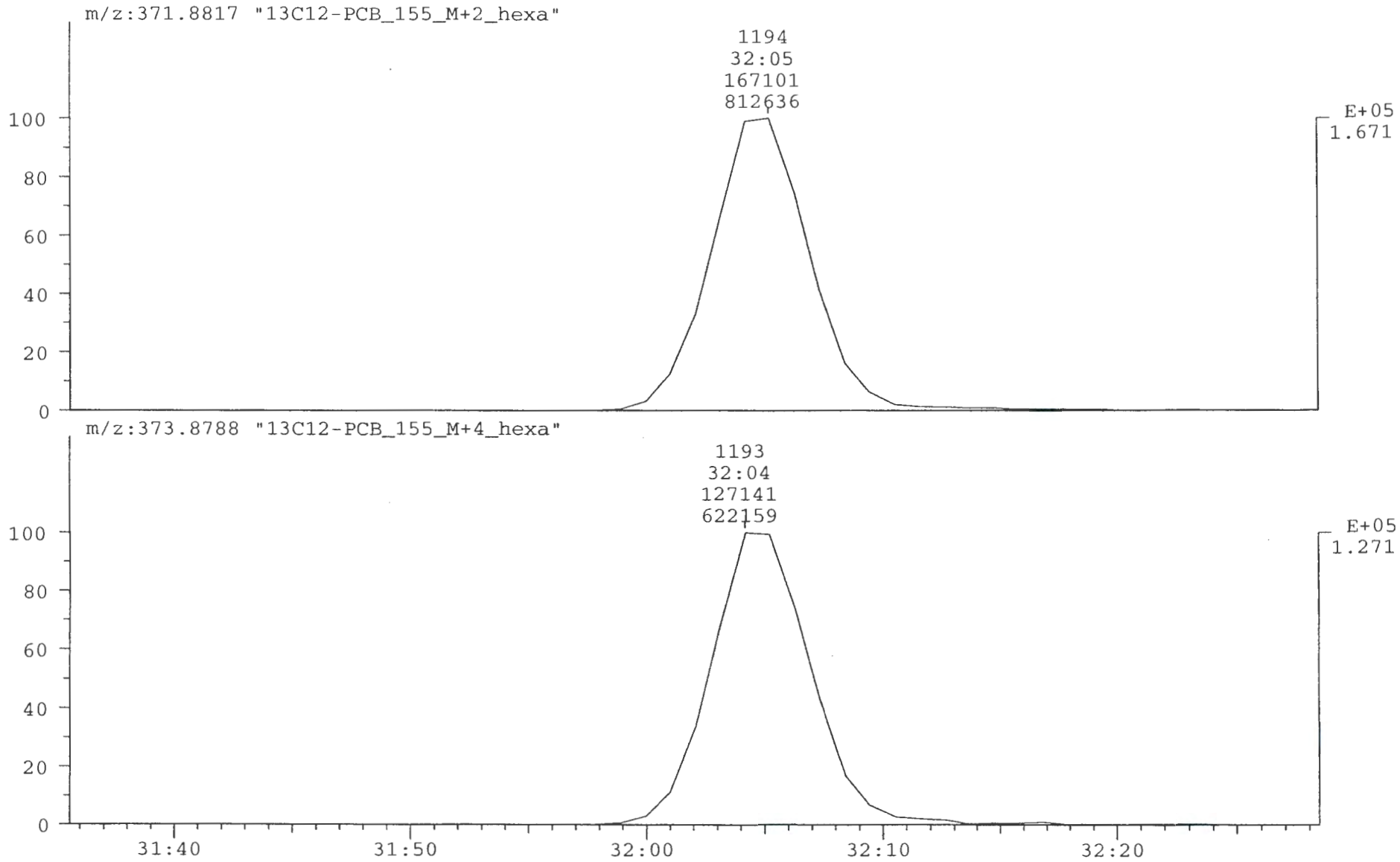
```
CHRO:  a071015s1                              15-Oct-07   Elapse:  40:53       1689
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1624 > 1762         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1              Label :  -3, 3.0
Disp:  Height  Area
```



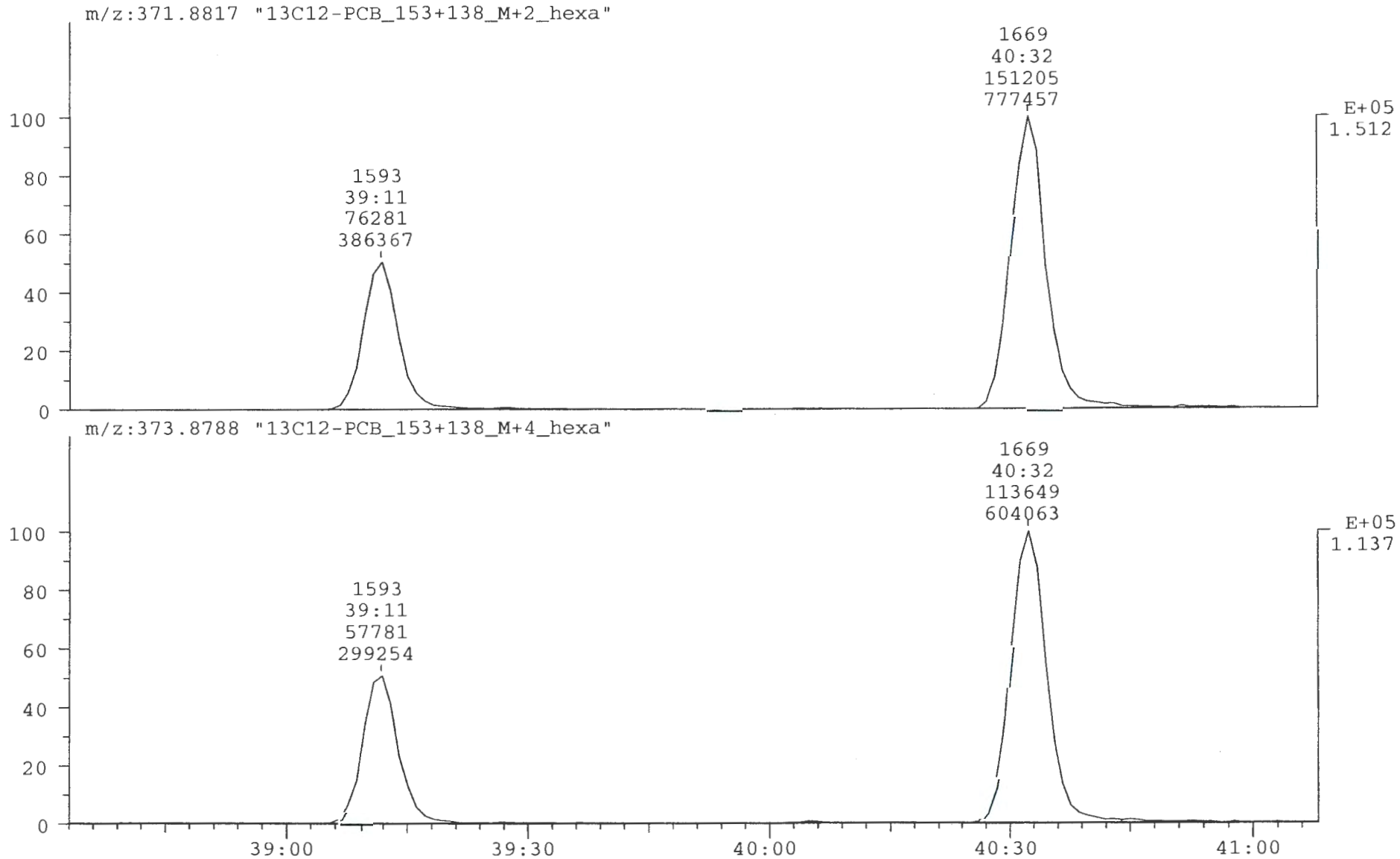
CHRO: a071015s1 15-Oct-07 Elapse: 39:59 1638
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1160 > 2121 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



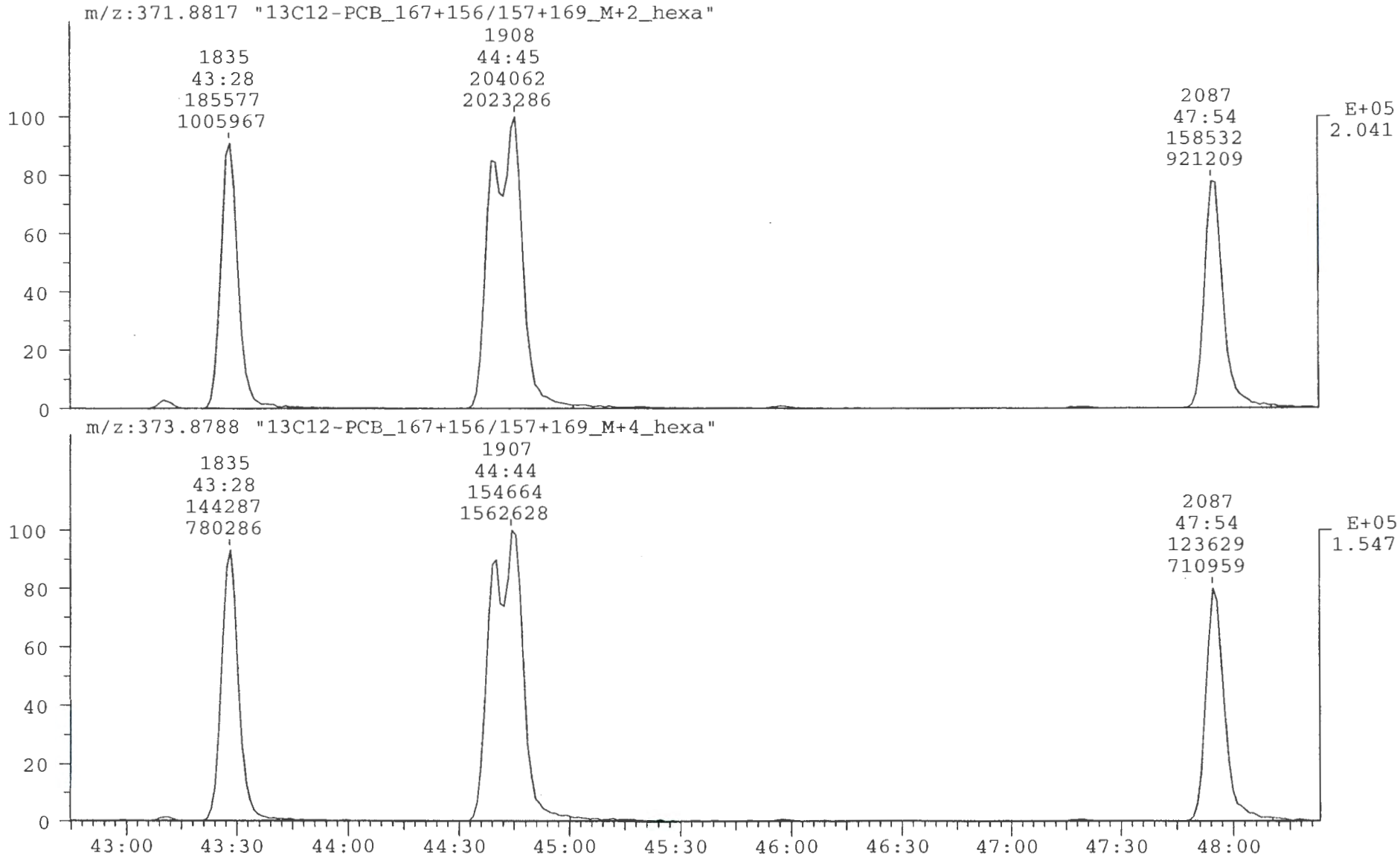
```
CHRO:  a071015s1                          15-Oct-07   Elapse:  32:02      1191
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville             Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1166 > 1216      Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                                15-Oct-07   Elapse:  39:49      1629
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1556 > 1703           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

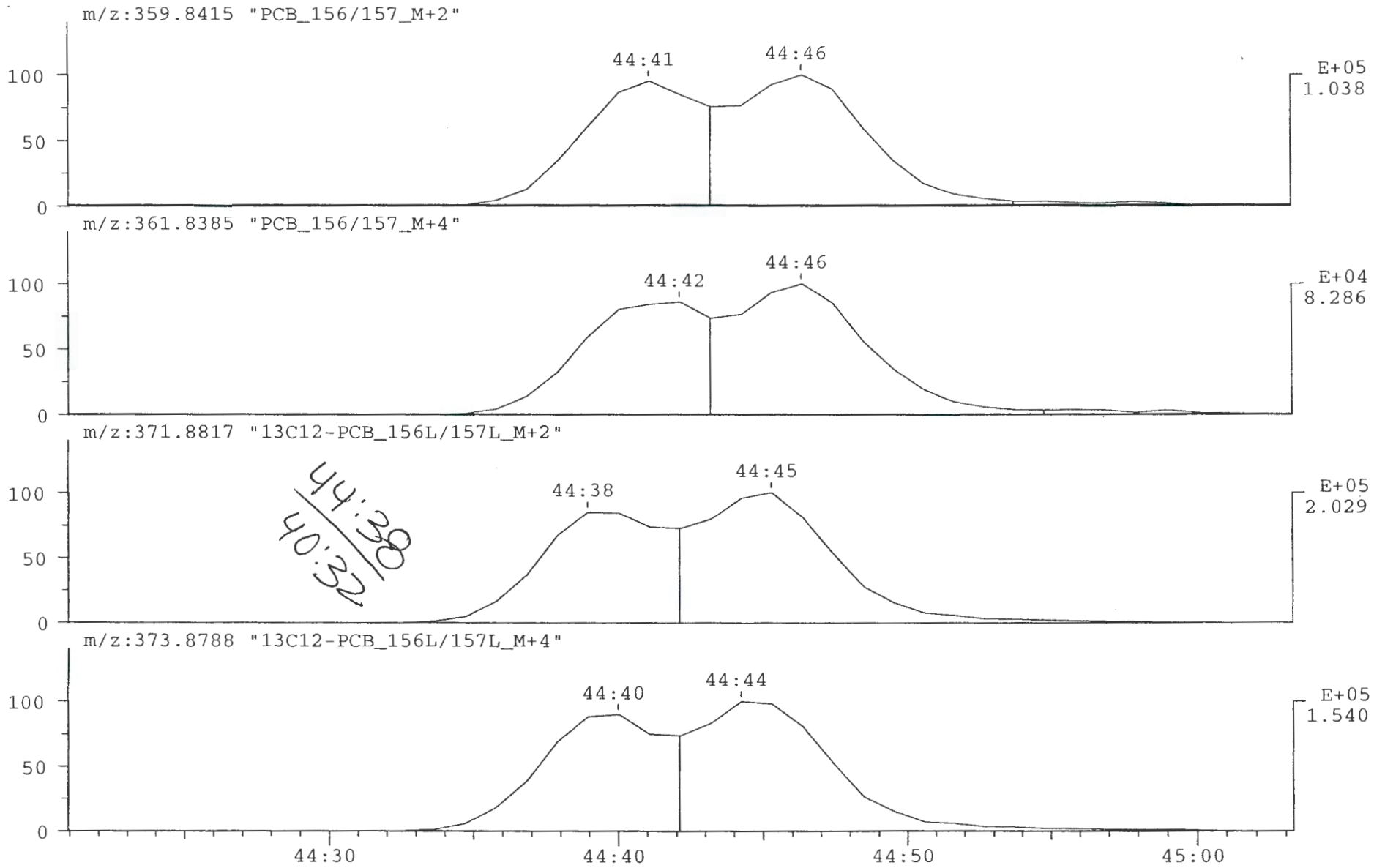


CHRO: a071015s1 15-Oct-07 Elapse: 45:39 1959
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1794 > 2114 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



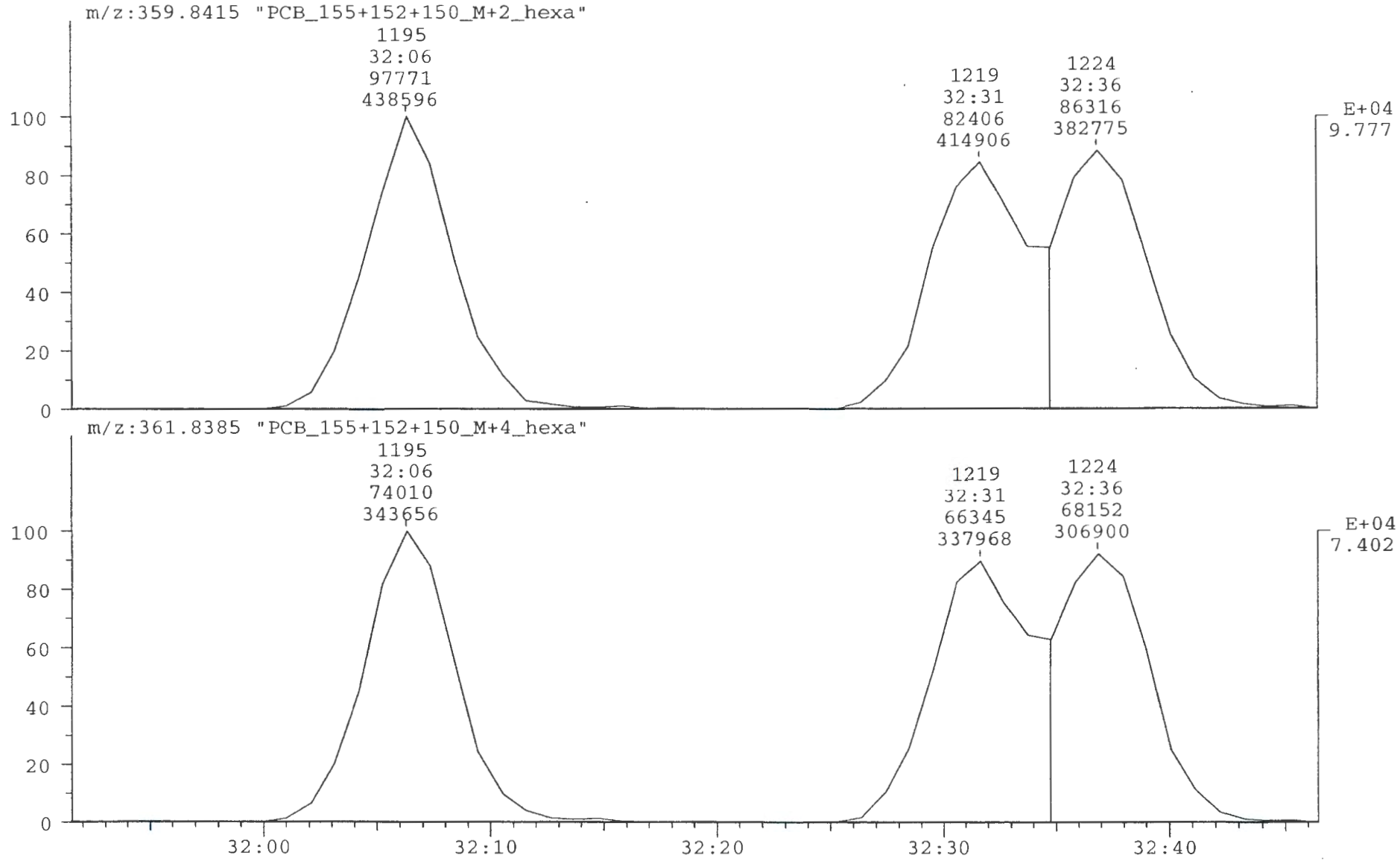
2877

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  44:42      1905
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1885 > 1925           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
```

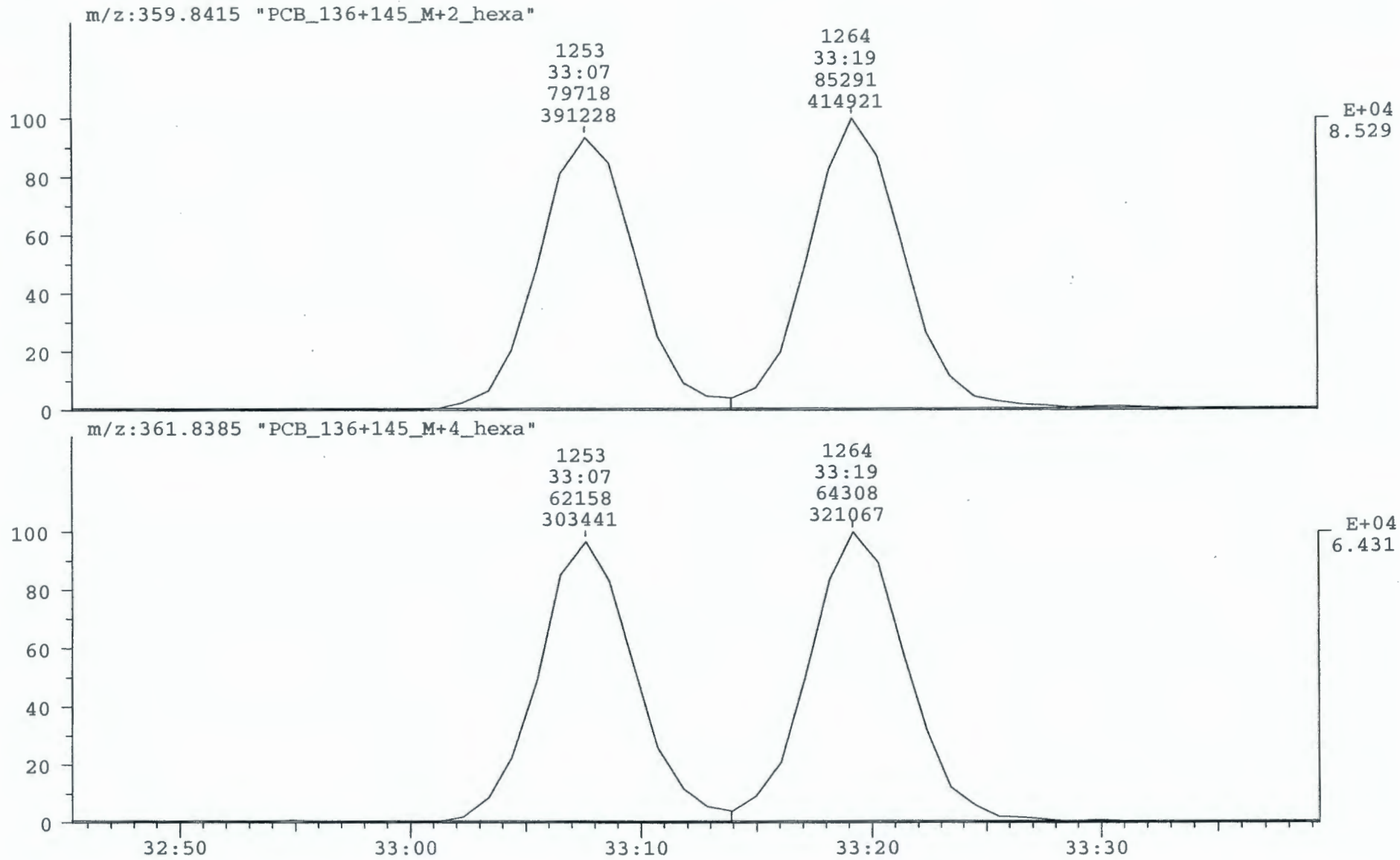


2878

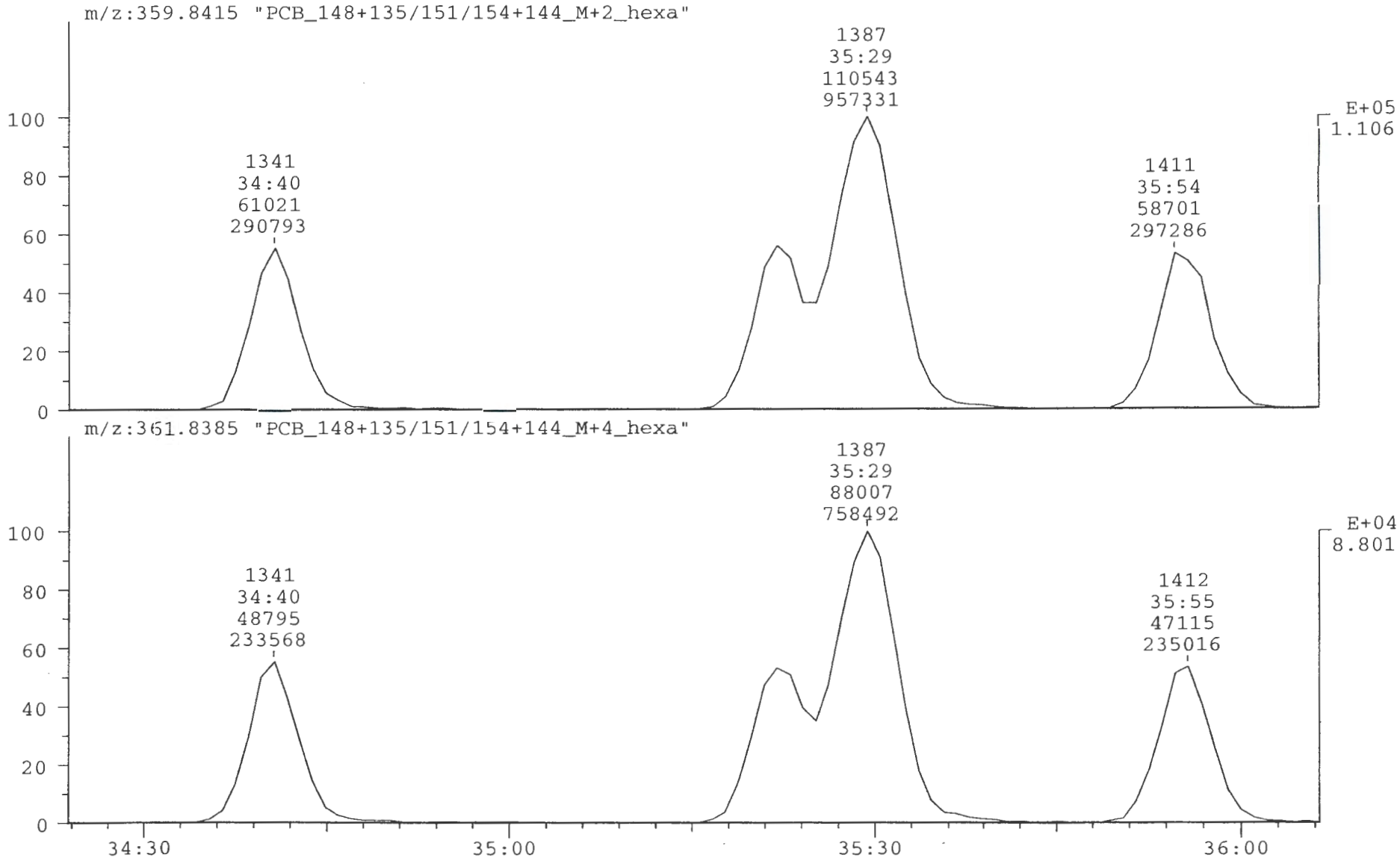
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  32:20      1208
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1181 > 1233           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



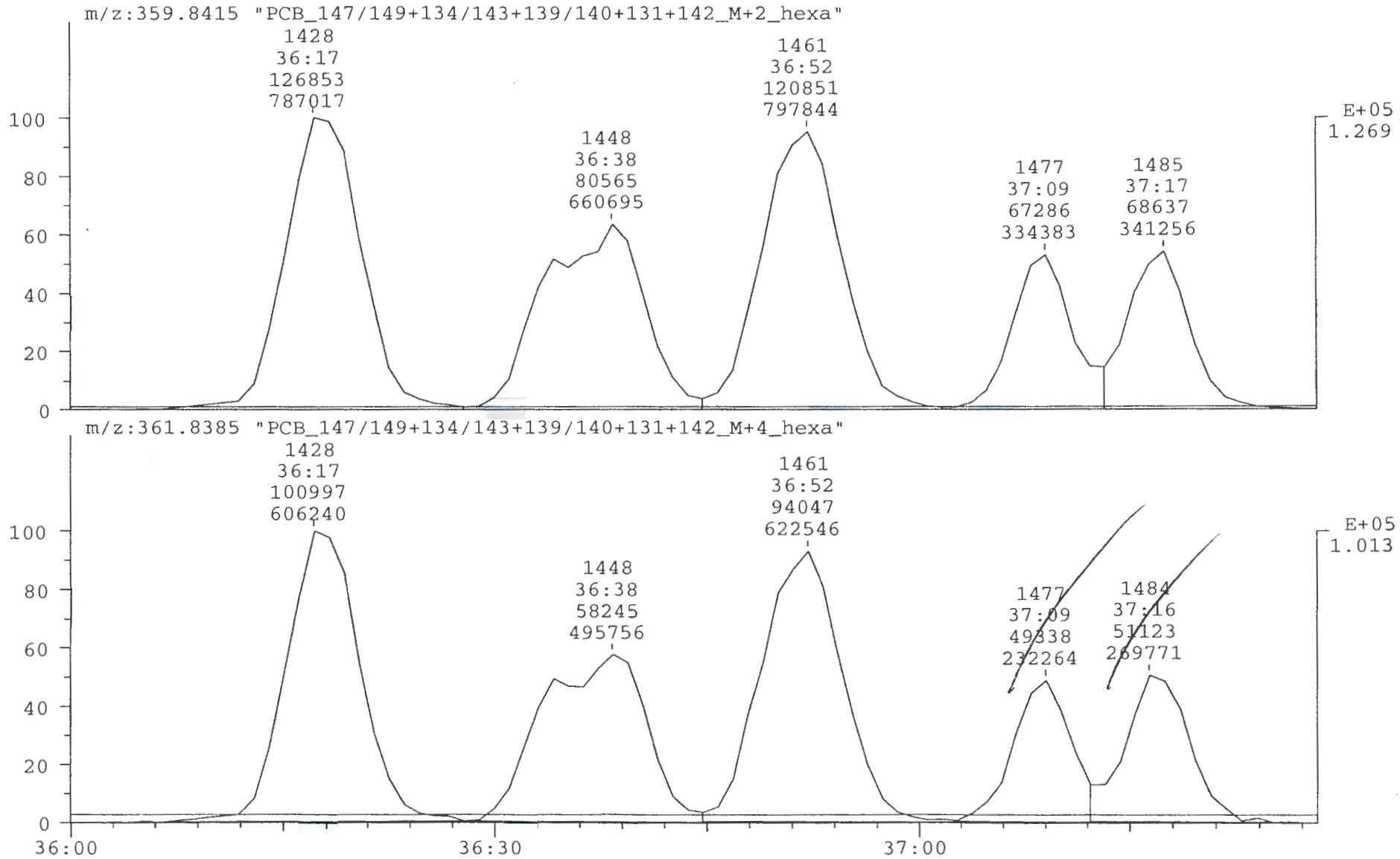
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  33:08      1254
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1232 > 1283           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                                15-Oct-07   Elapse:  35:21      1380
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1325 > 1422            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 12                Label :  -3, 3.0
Disp:  Height  Area
```

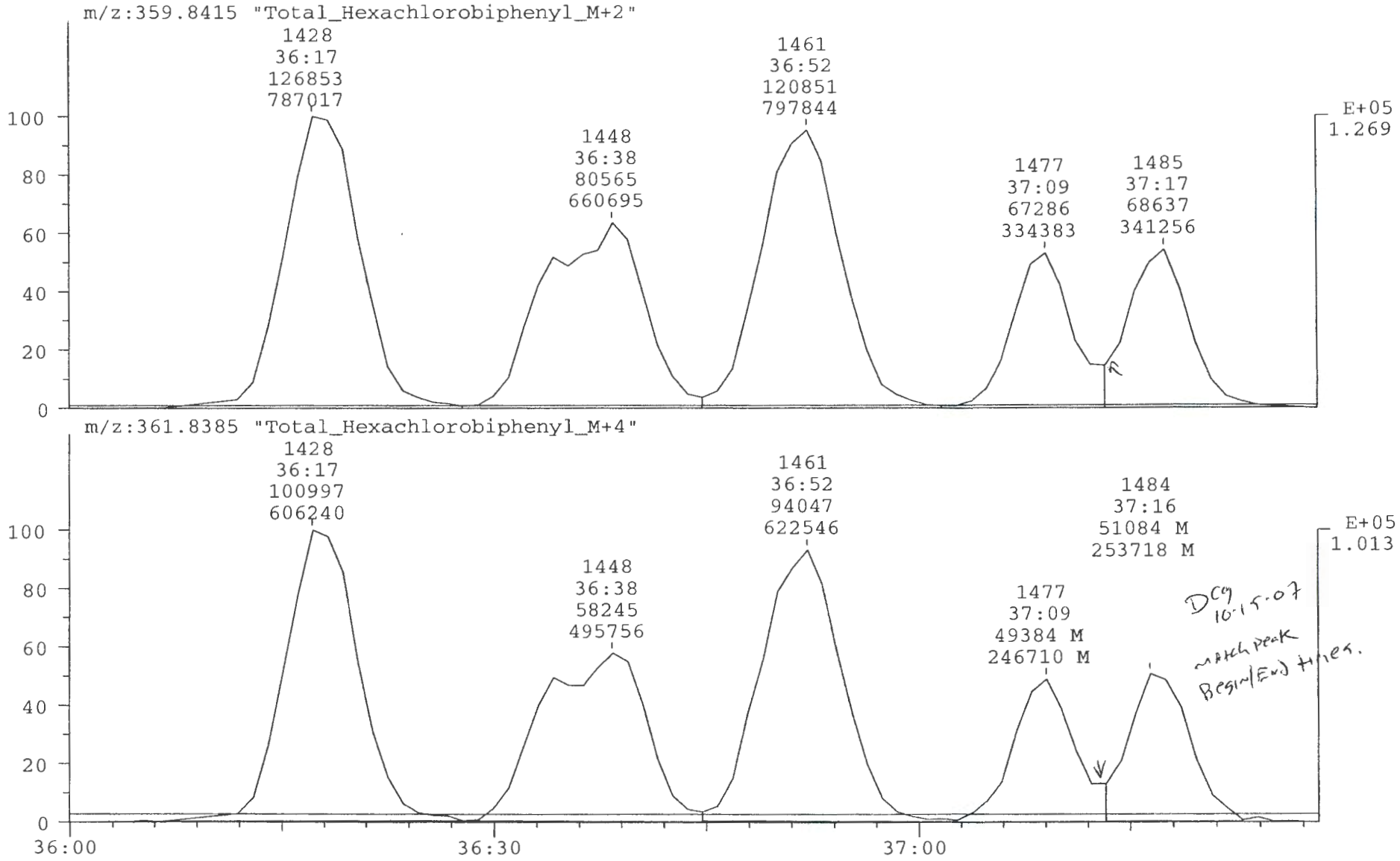


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  36:45      1455
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1416 > 1495           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5                Label :  -3, 3.0
Disp:  Height  Area
```



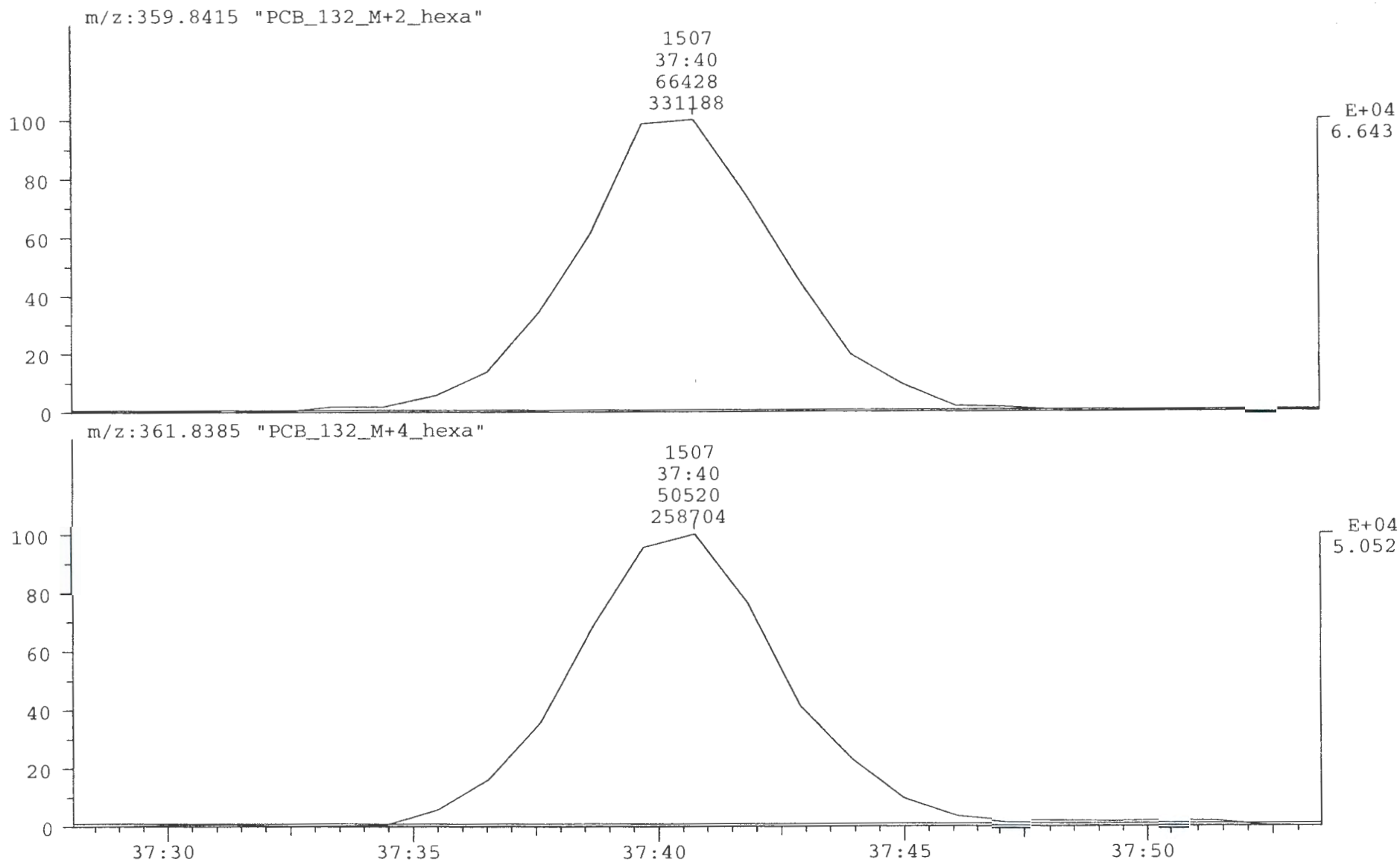
2882

```
CHRO:  a071015s1                              15-Oct-07   Elapse:  50:07      2209
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1416 > 1495         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5              Label :  -3, 3.0
Disp:  Height  Area
```

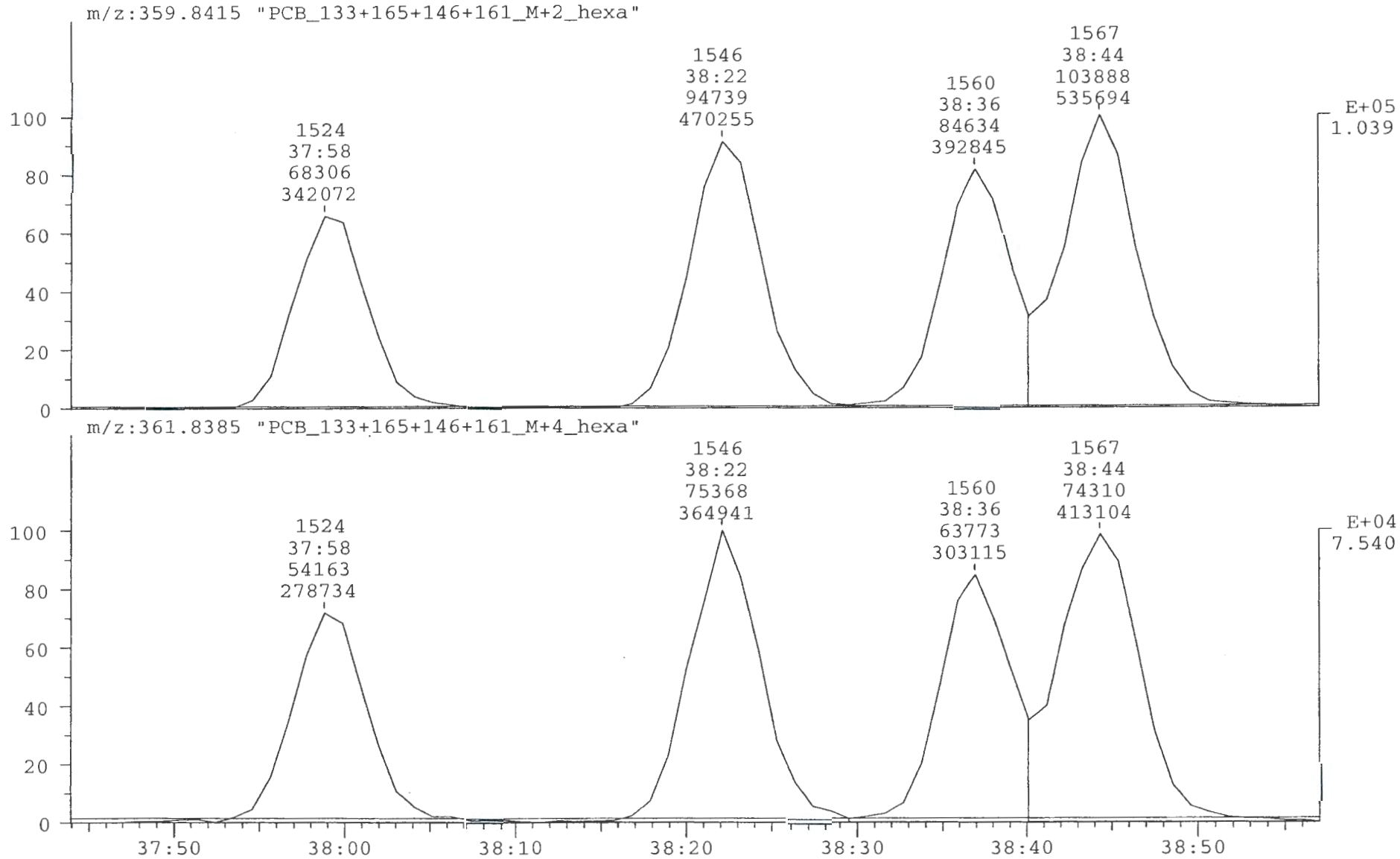


2883

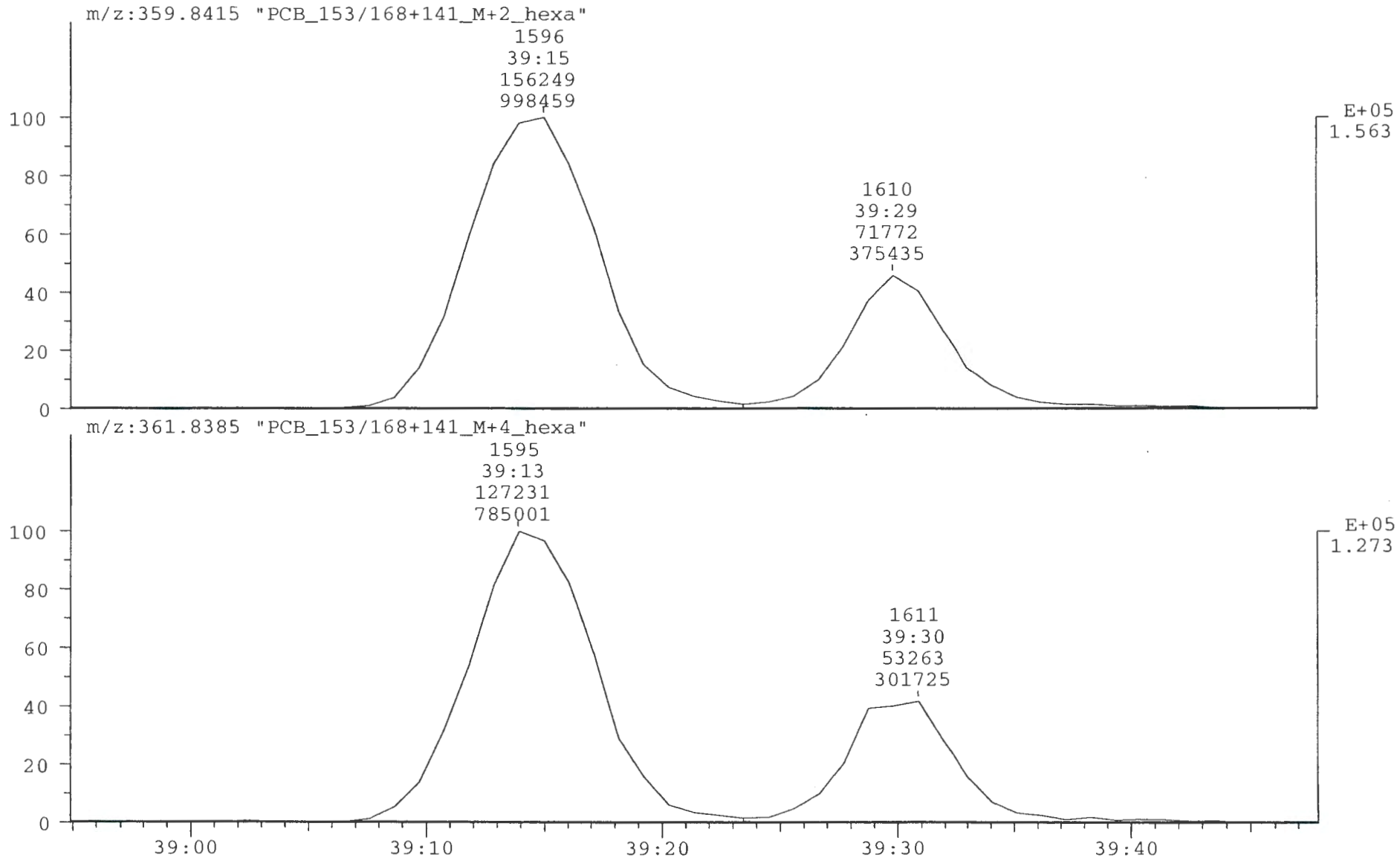
```
CHRO:  a071015s1                              15-Oct-07   Elapse:  37:34       1501
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1495 > 1519         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5              Label :  -3, 3.0
Disp:  Height  Area
```



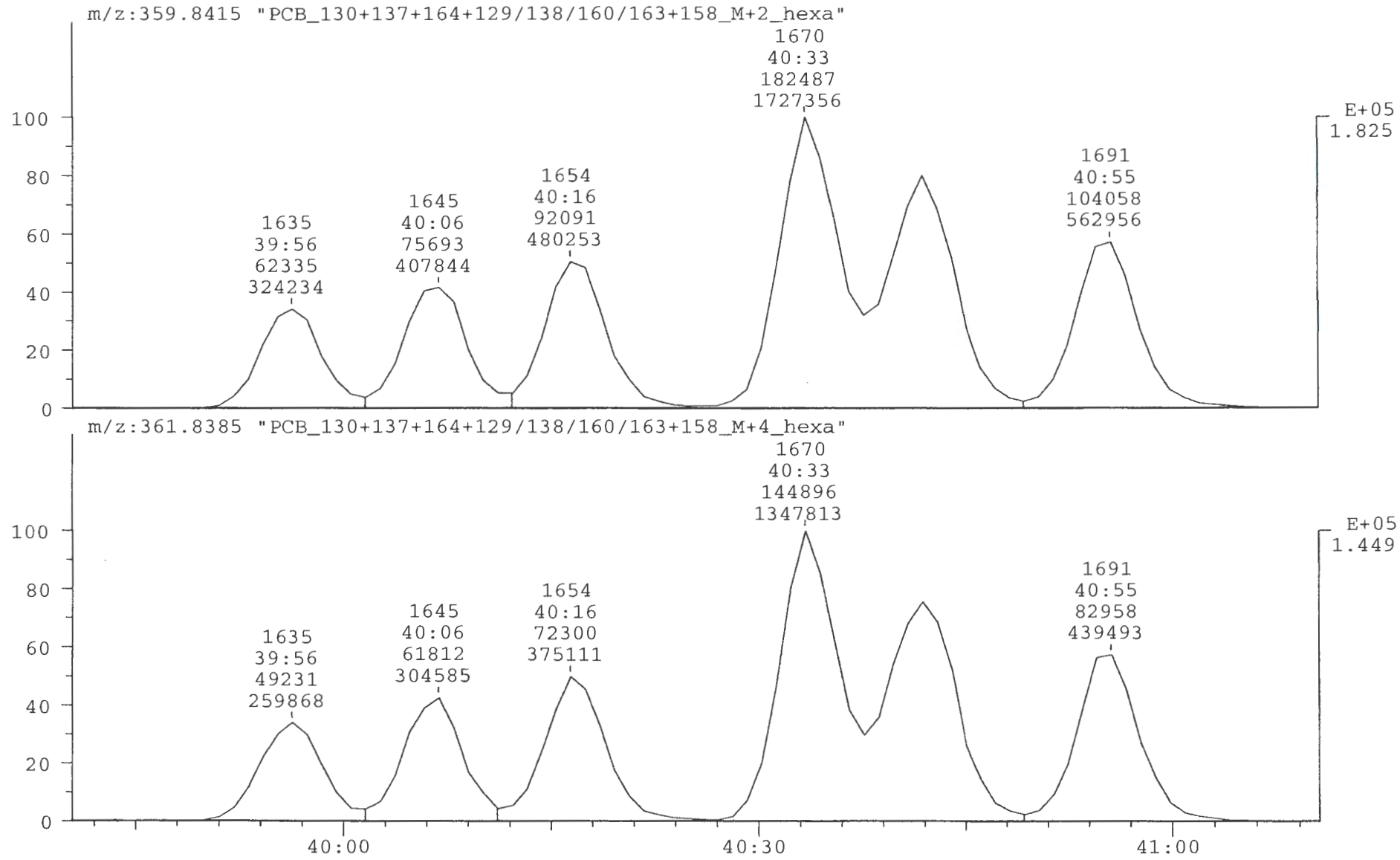
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  38:22      1546
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1510 > 1579           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                              15-Oct-07   Elapse:  39:21      1602
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1577 > 1627         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

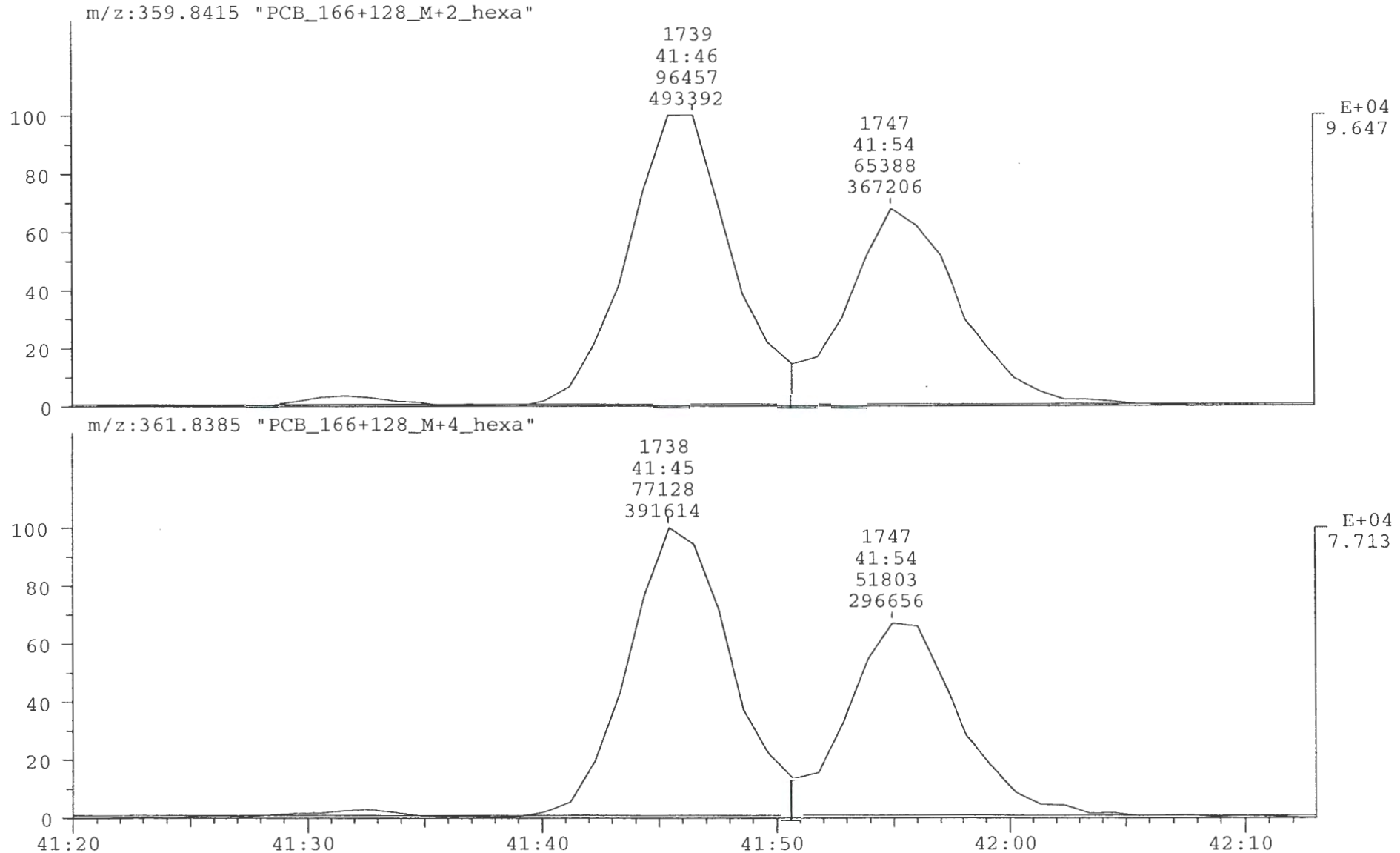


```
CHRO:  a071015s1                              15-Oct-07   Elapse:  40:22      1660
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1620 > 1705          Masses:  181 > 510
Area:  5, 0.50, 0      Baseline  :   100, 7               Label :  -3, 3.0
Disp:  Height  Area
```

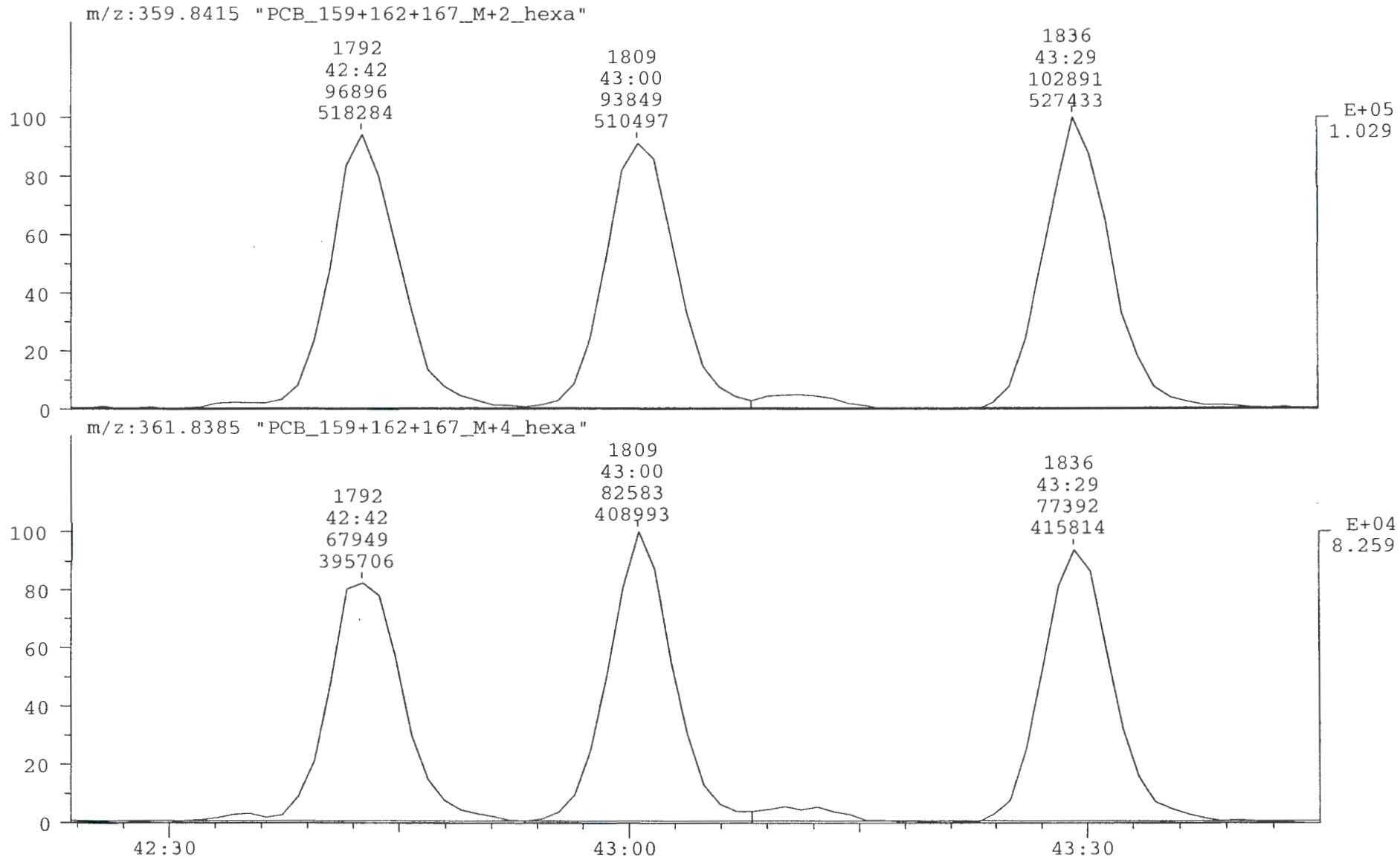


2887

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  41:46      1739
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1714 > 1764            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 2                 Label :  -3, 3.0
Disp:  Height  Area
```

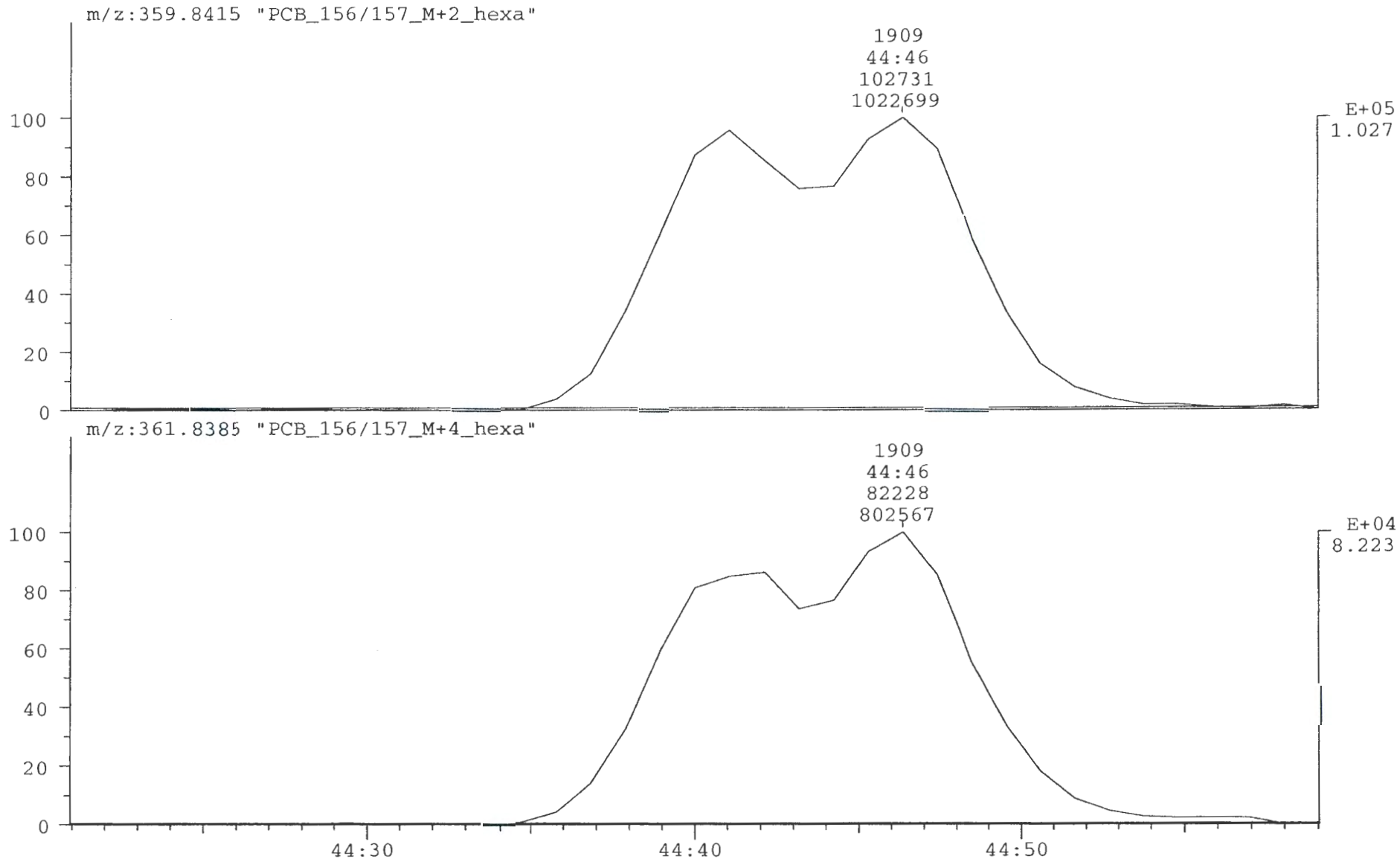


```
CHRO:  a071015s1                                15-Oct-07  Elapse:  43:05      1814
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1774 > 1851          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



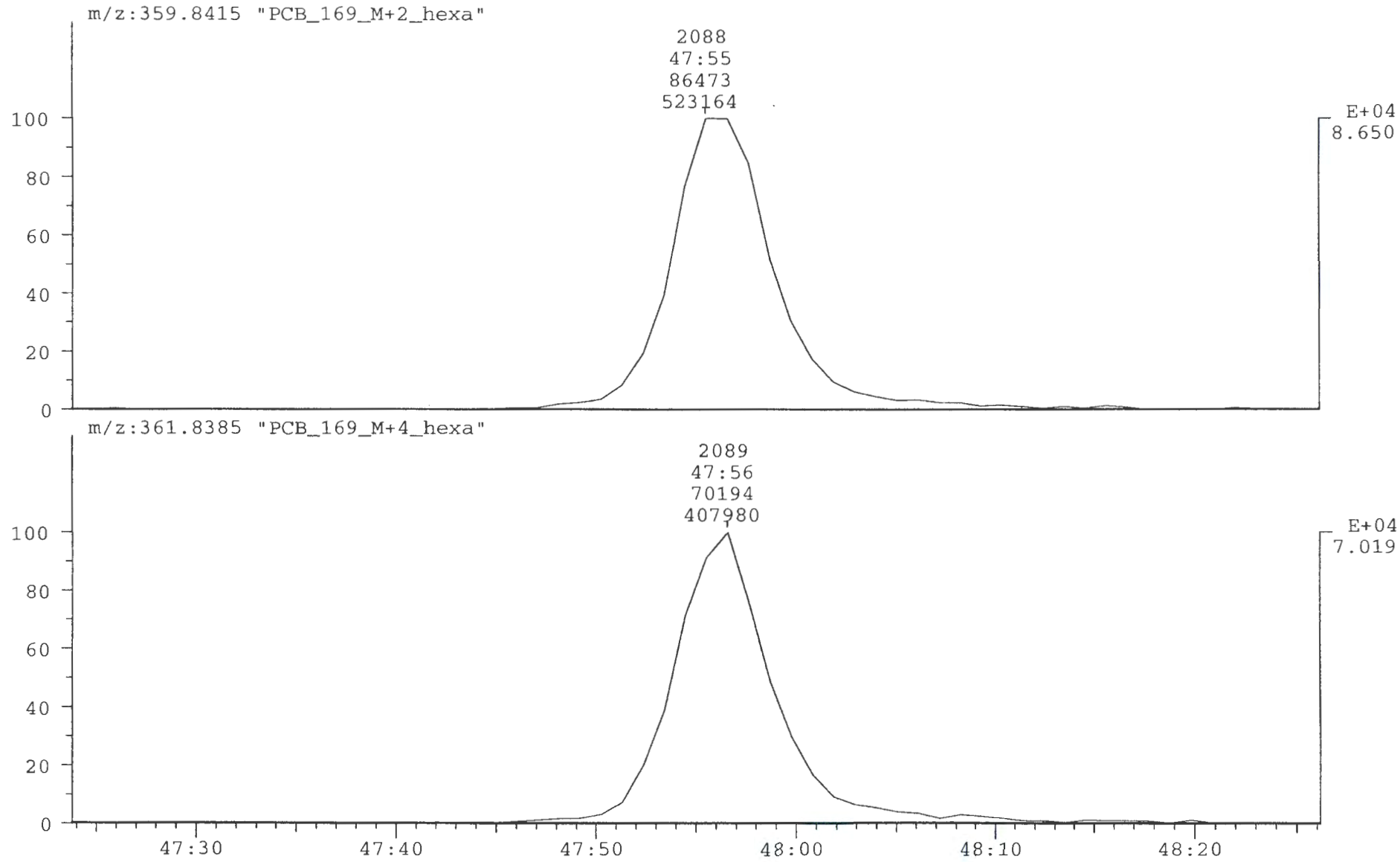
2889

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  44:36      1900
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1885 > 1921           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9                Label :  -3, 3.0
Disp:  Height  Area
```



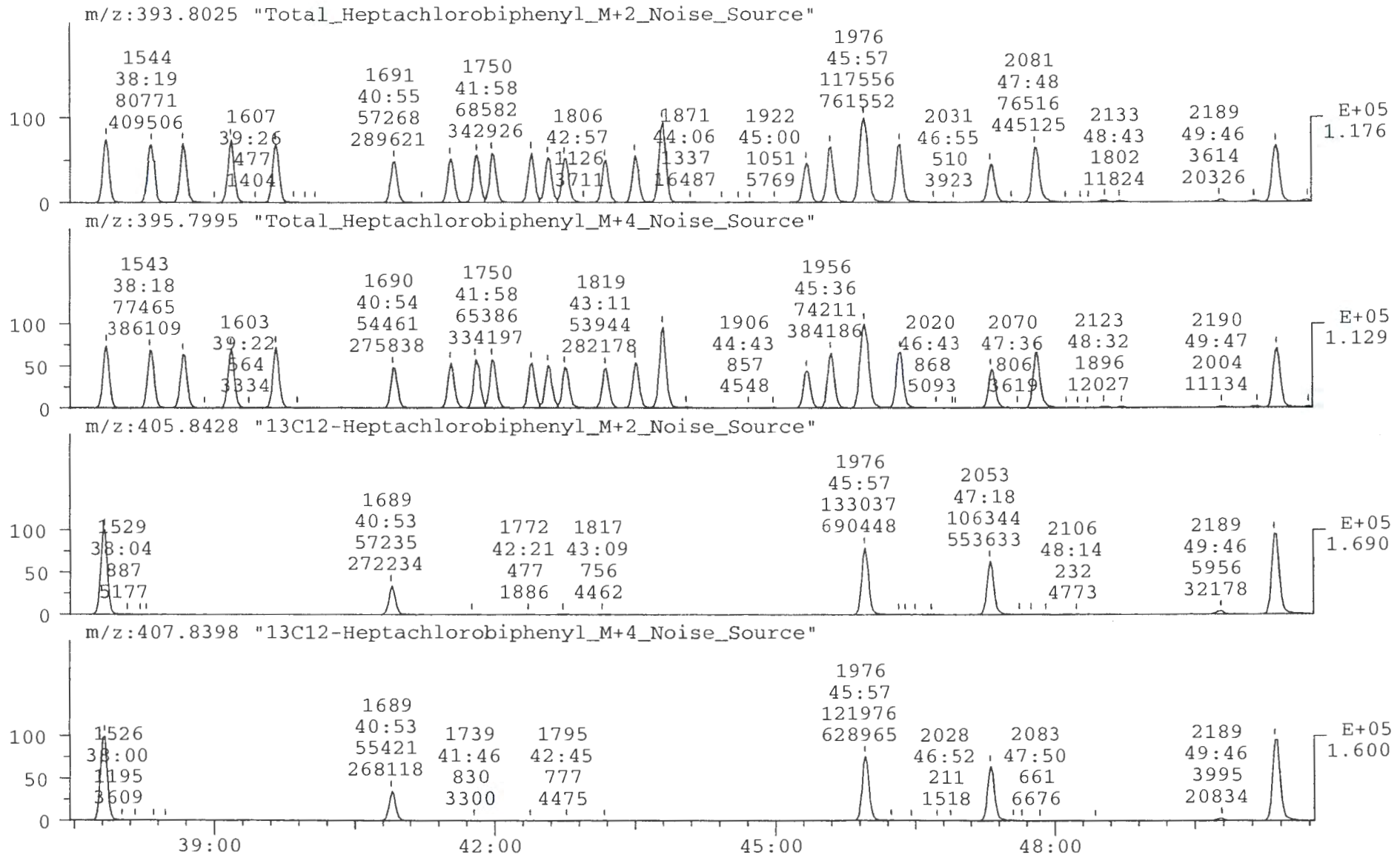
2890

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  47:50      2083
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2058 > 2117            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



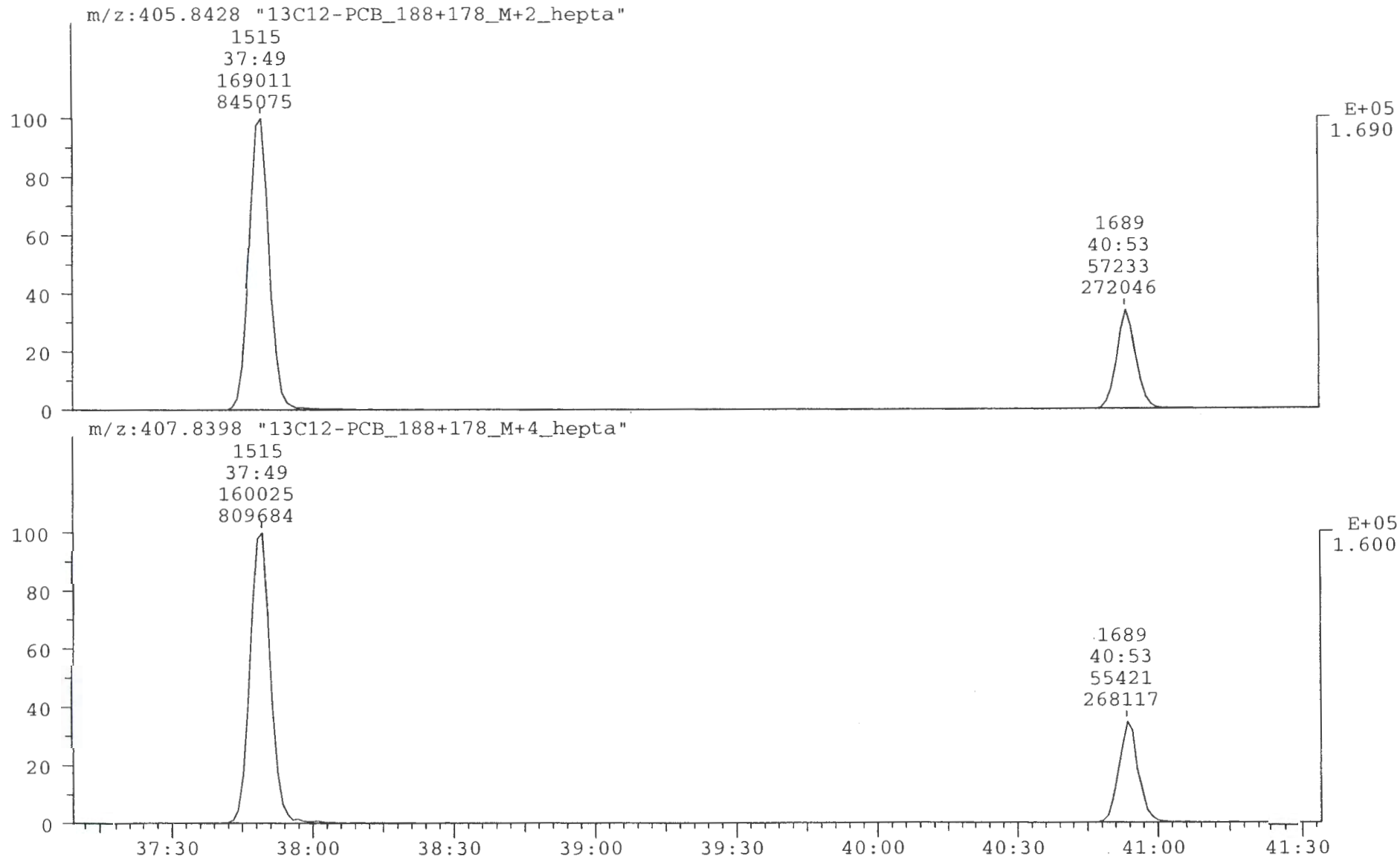
2891

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  44:06      1871
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1494 > 2244           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



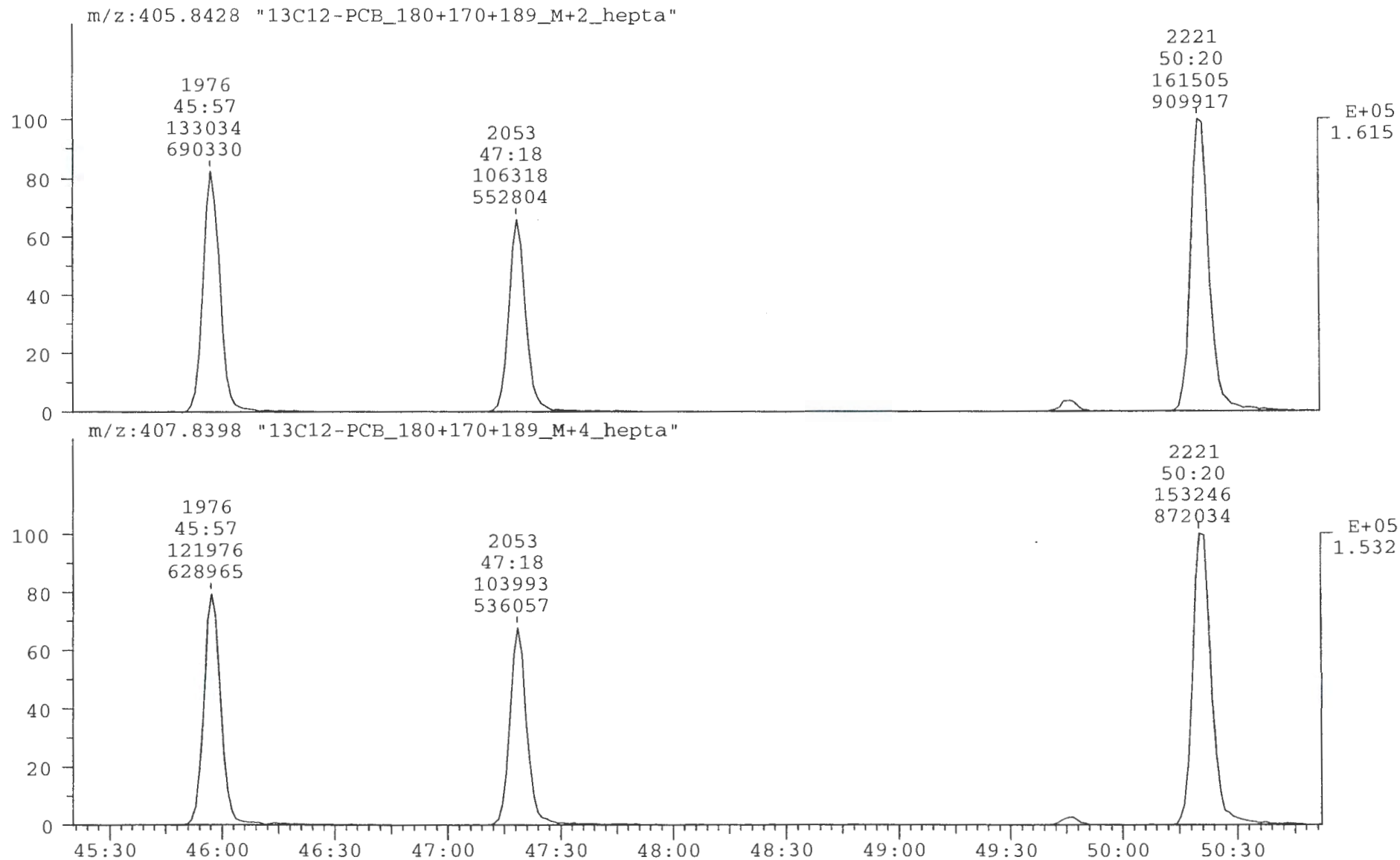
2892

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  39:21      1602
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   1477 > 1727            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

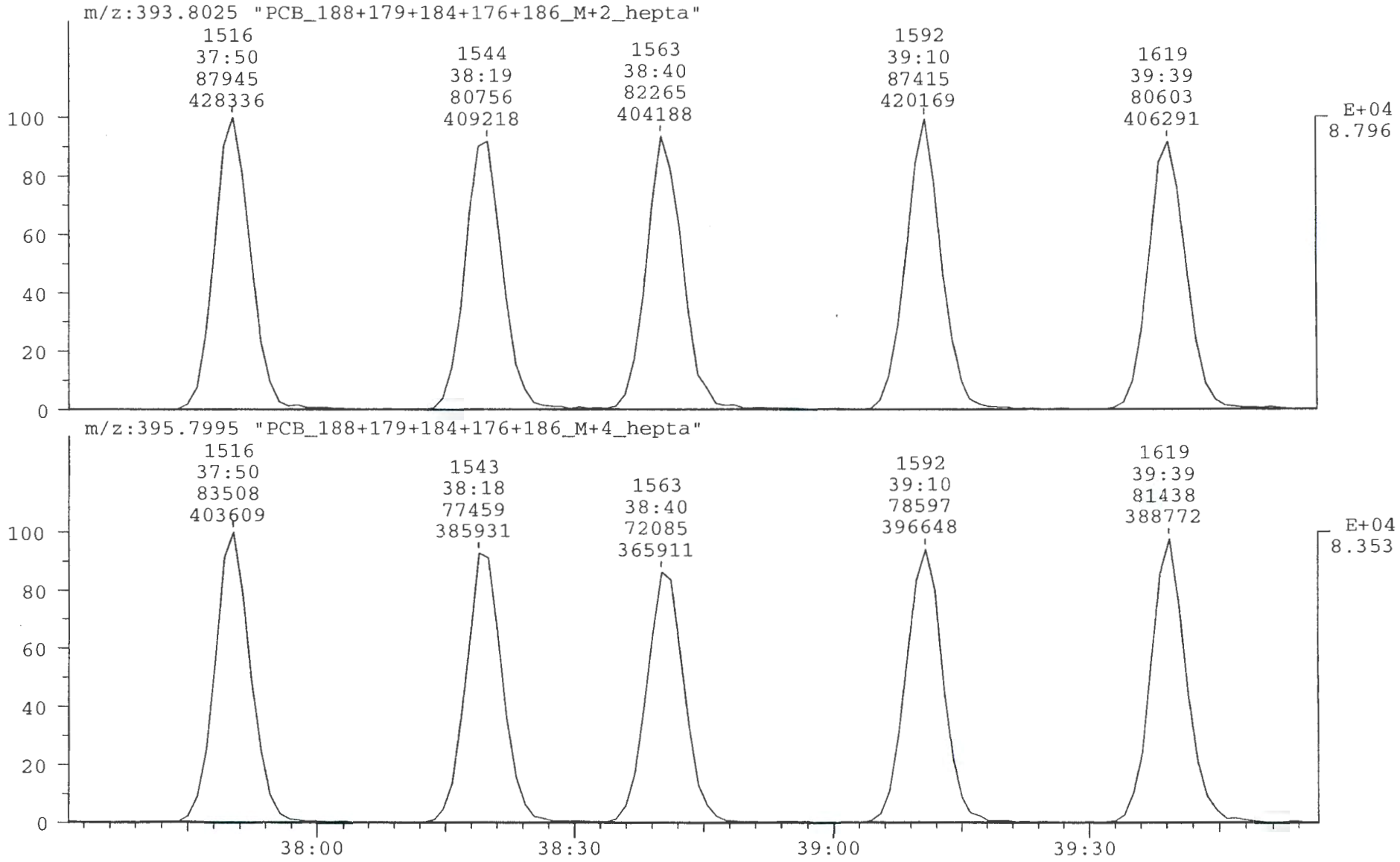


2893

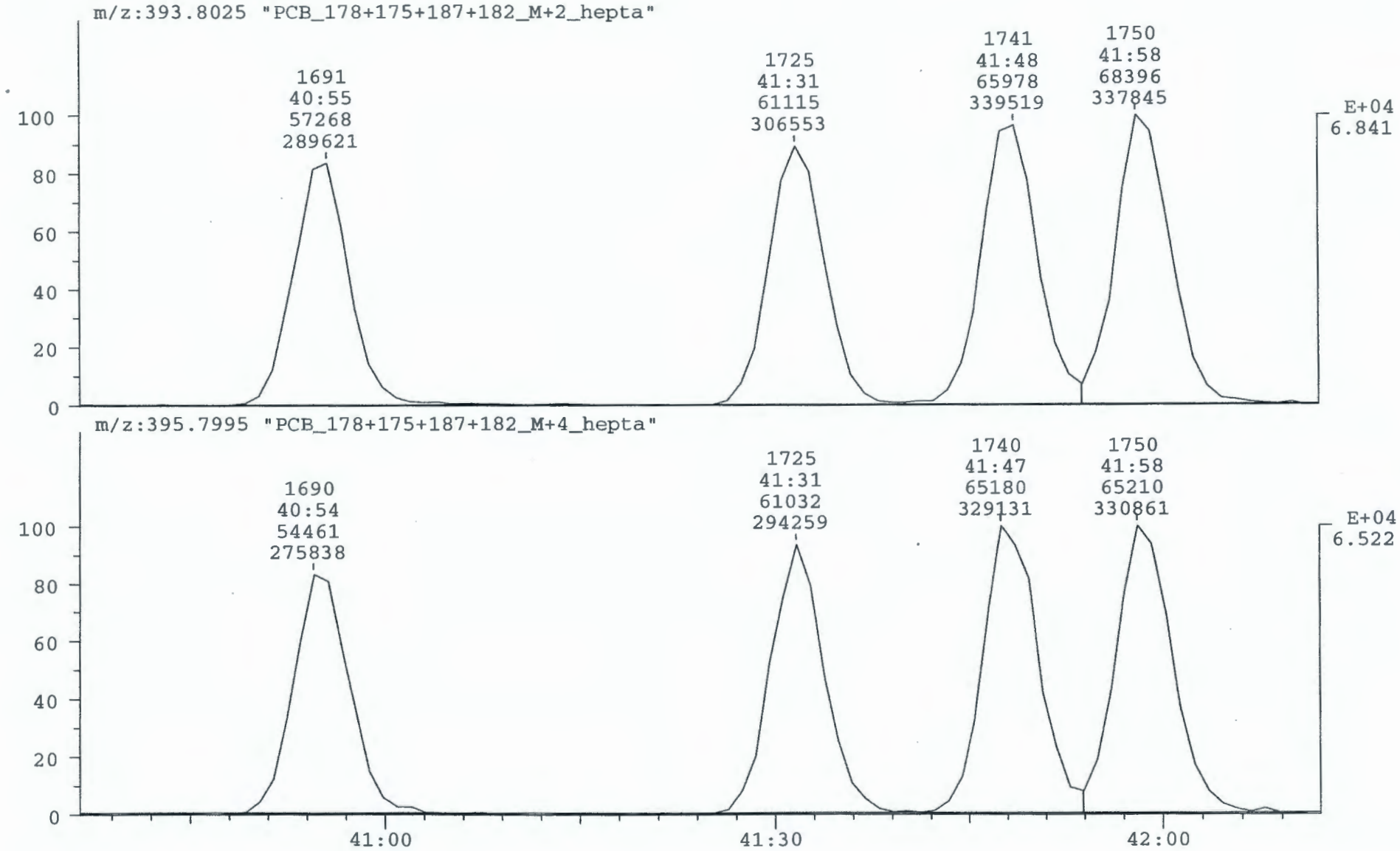
```
CHRO:  a071015s1                                15-Oct-07  Elapse:  48:09      2101
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1941 > 2251          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                          15-Oct-07   Elapse:  38:43      1566
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1               Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville             Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   1498 > 1635      Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```

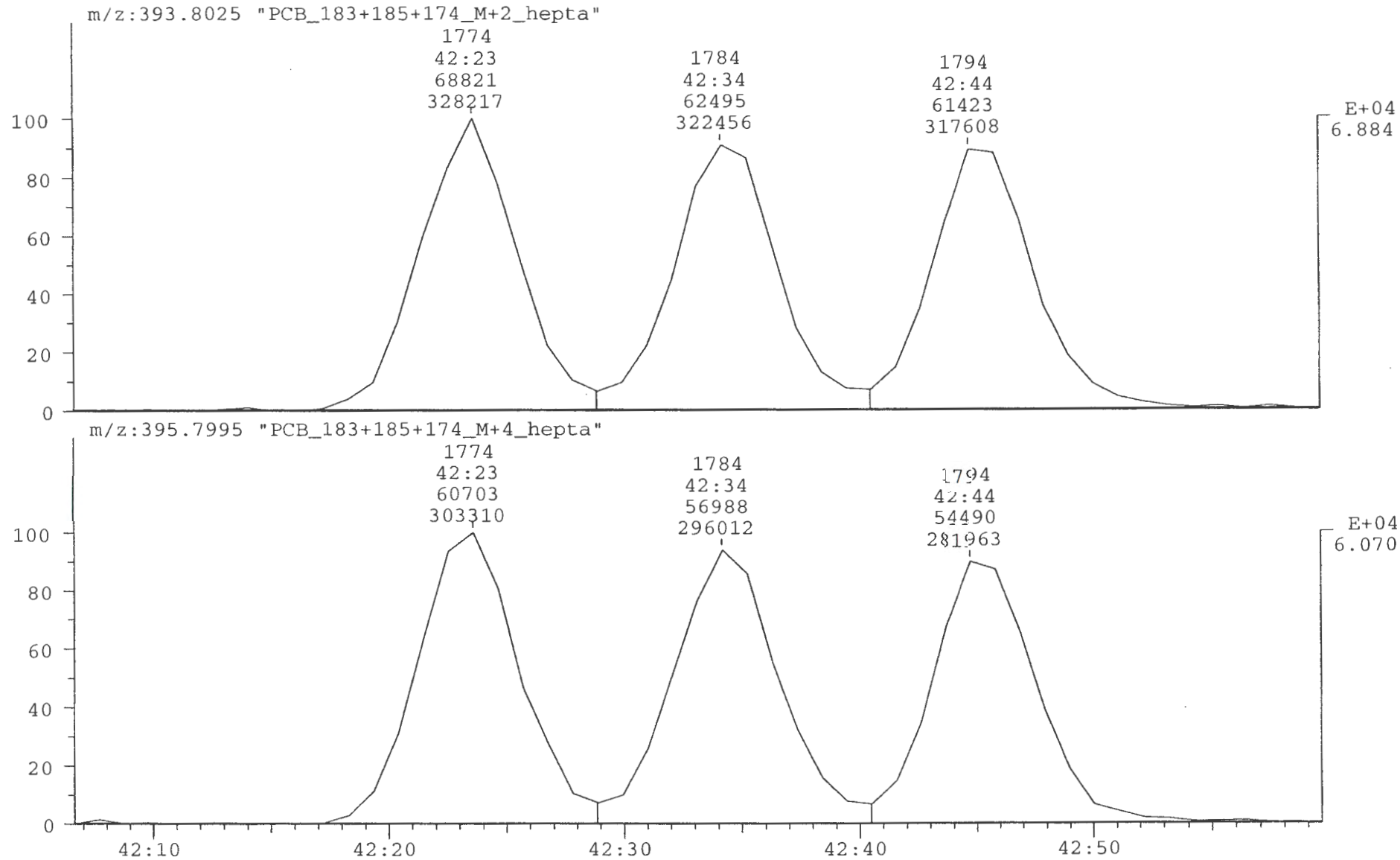


CHRO: a071015s1 15-Oct-07 Elapse: 41:29 1723
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1673 > 1763 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

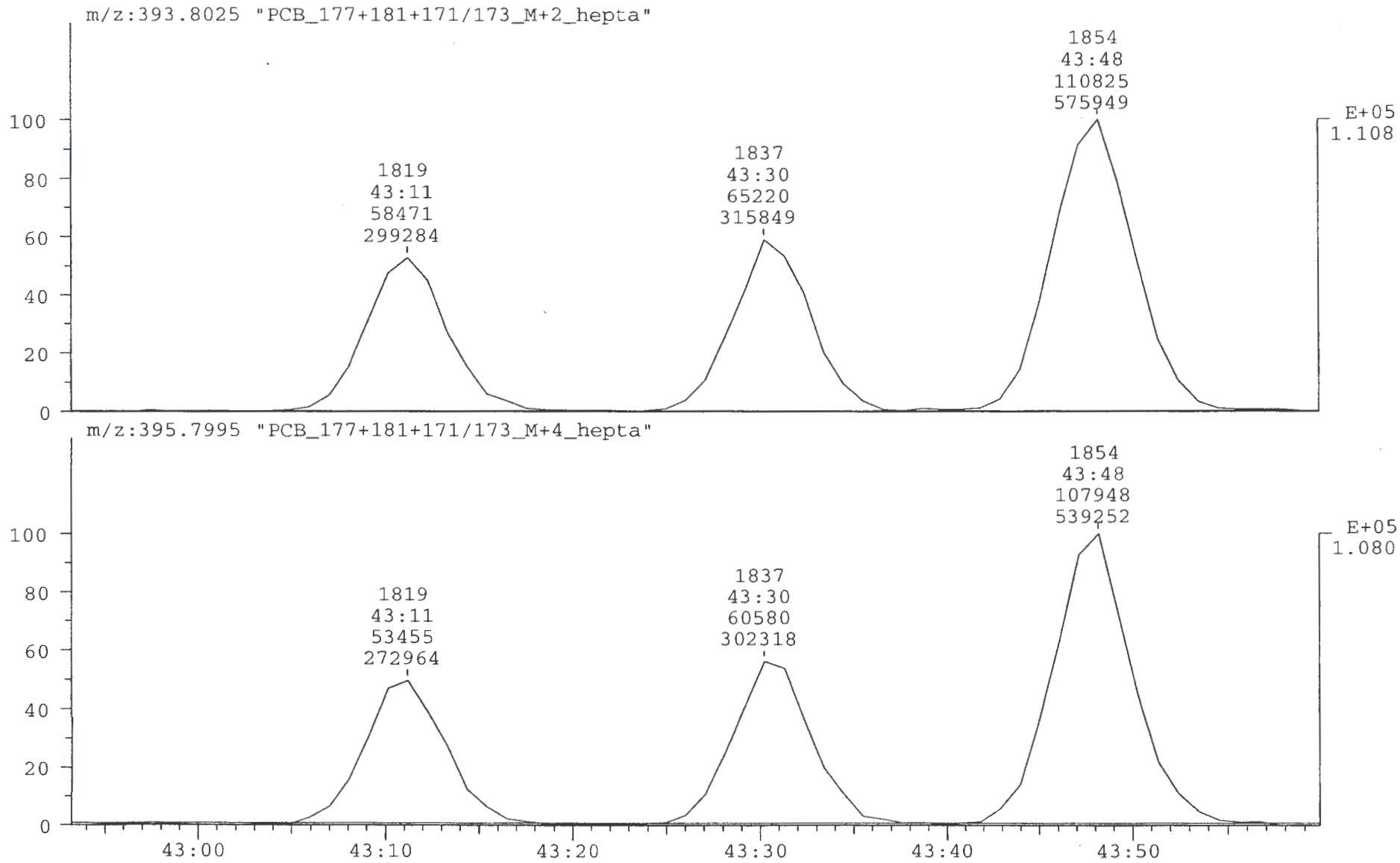


2896

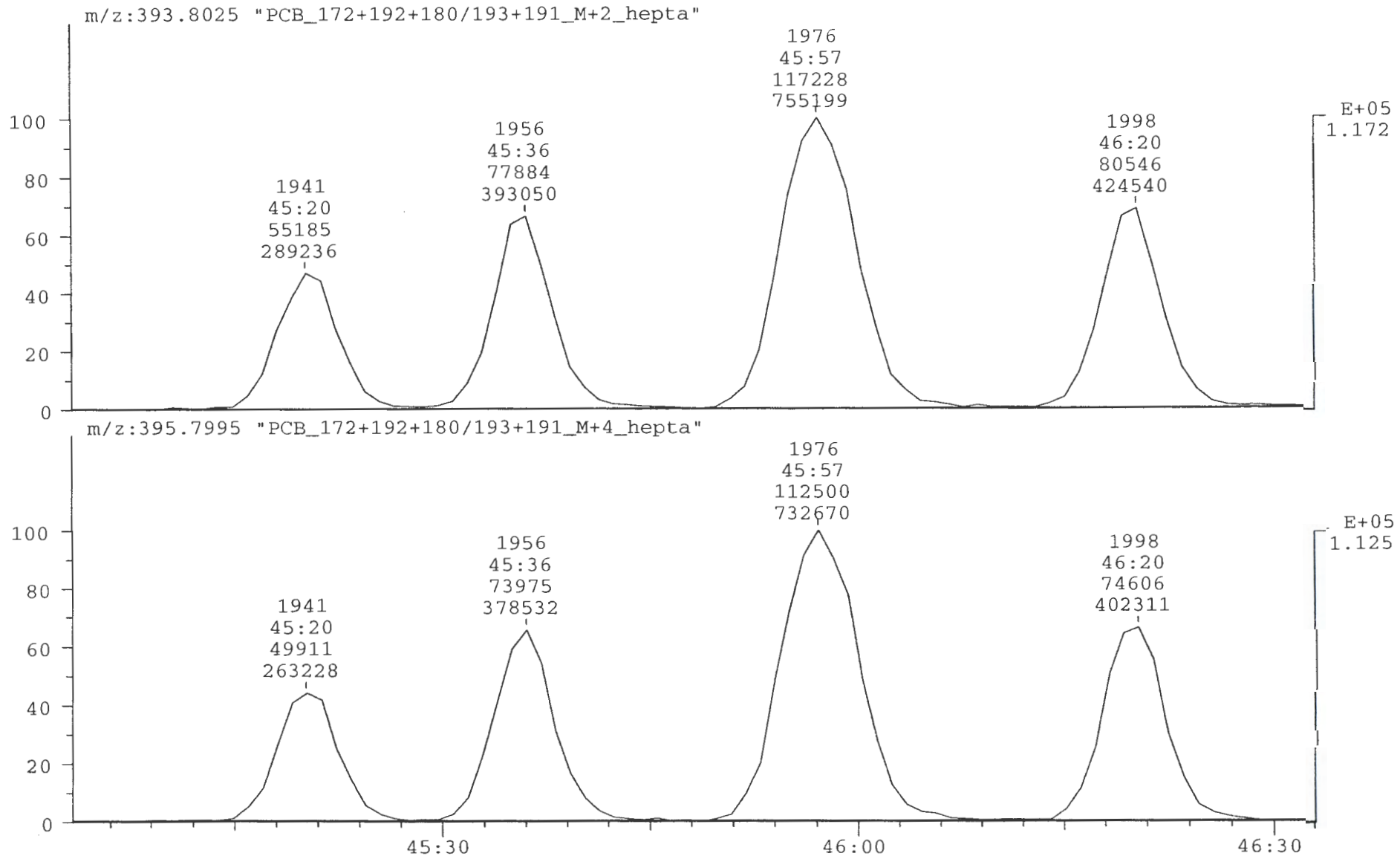
CHRO: a071015s1 15-Oct-07 Elapse: 42:40 1790
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1758 > 1808 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a071015s1                                15-Oct-07   Elapse:  43:28      1835
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1802 > 1865           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

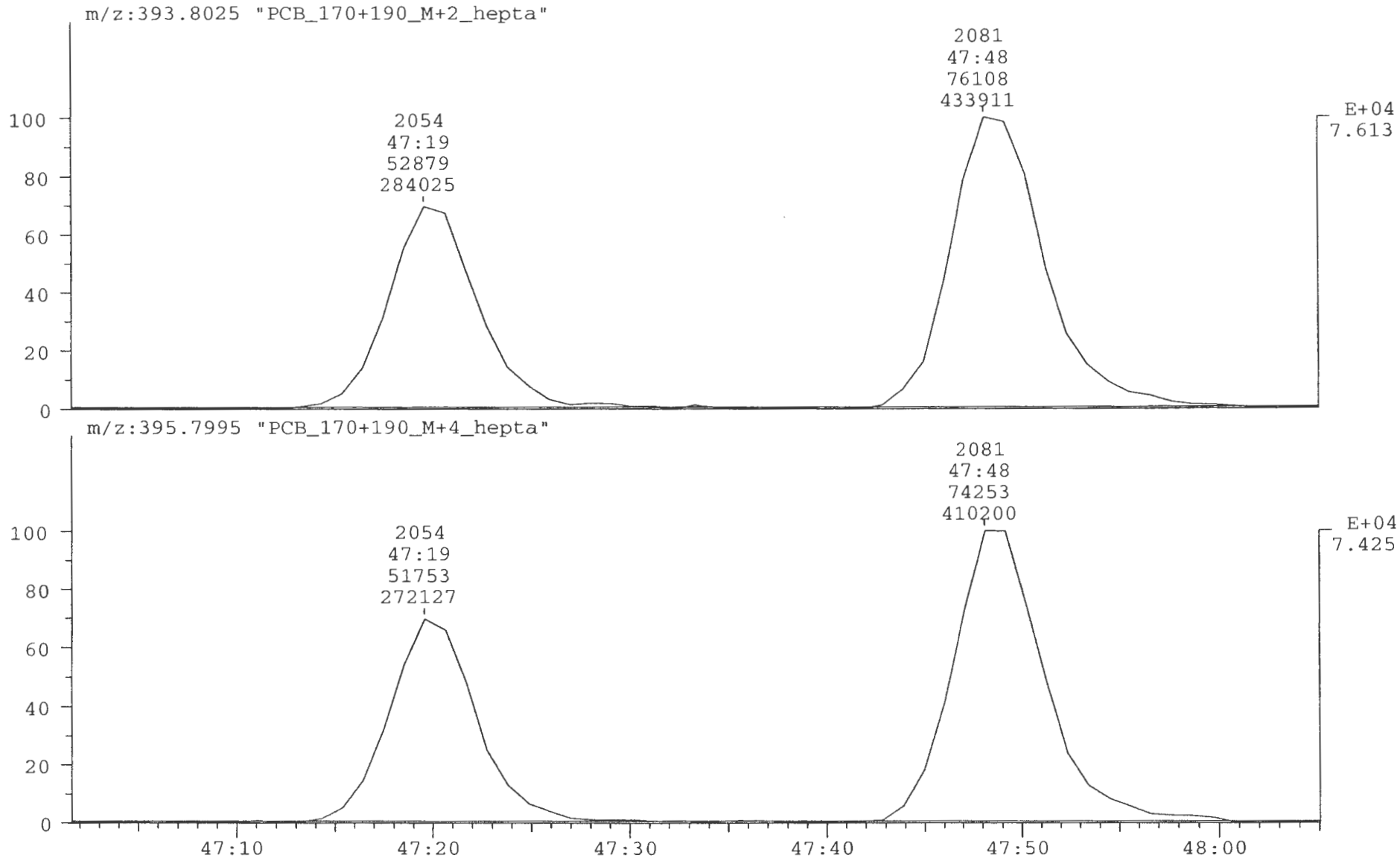


CHRO: a071015s1 15-Oct-07 Elapse: 45:56 1975
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 1925 > 2010 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

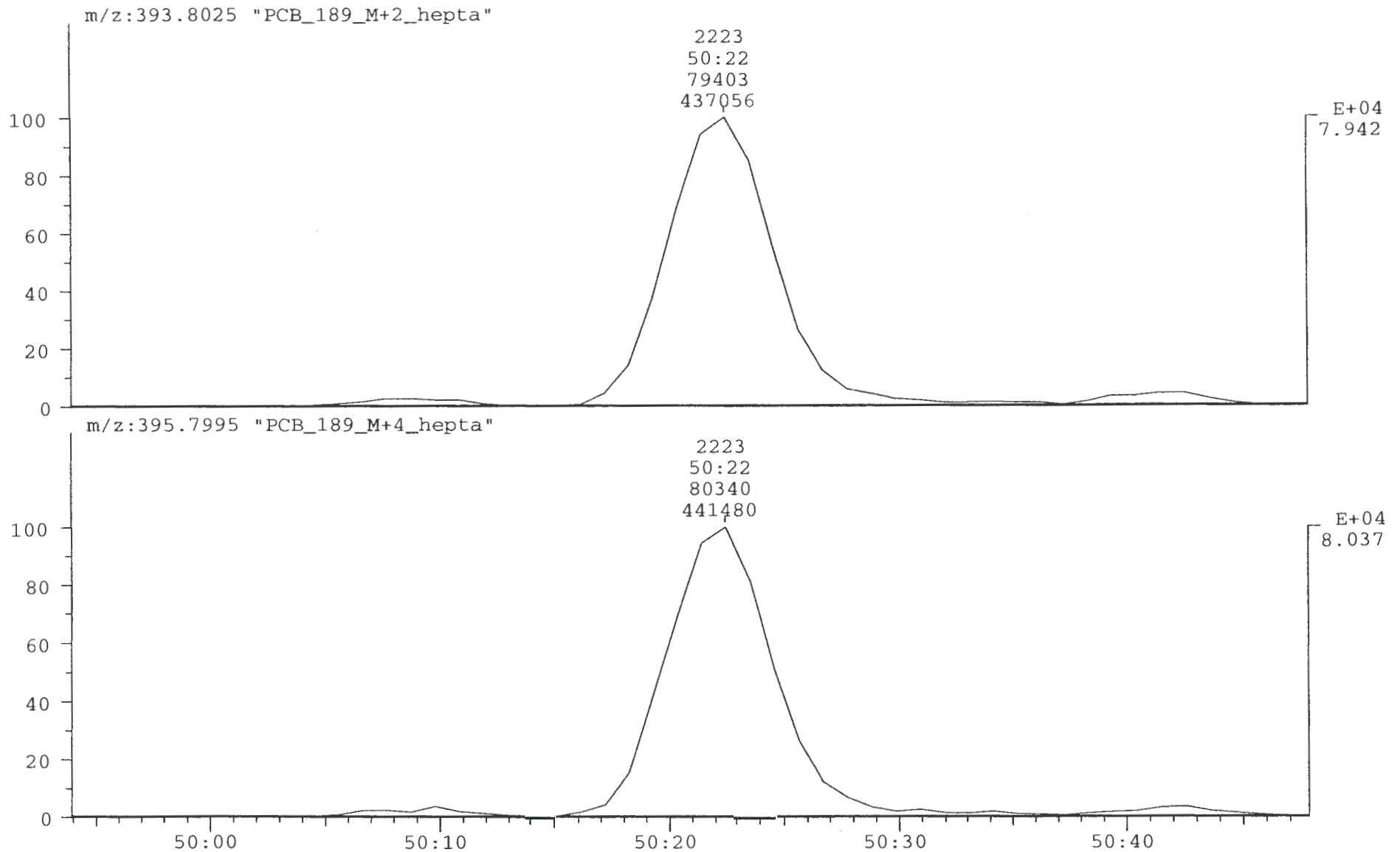


2899

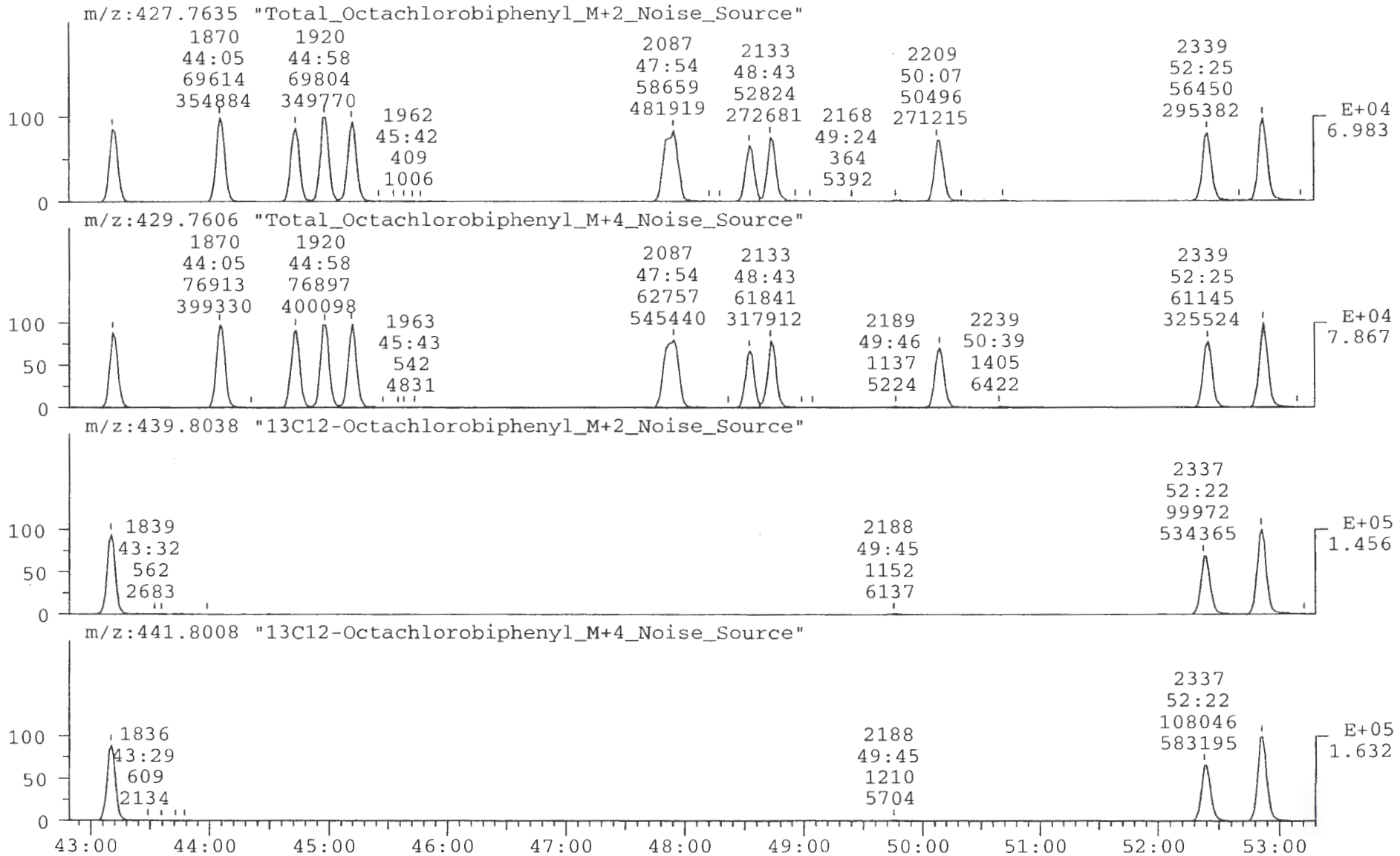
CHRO: a071015s1 15-Oct-07 Elapse: 47:35 2069
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 2037 > 2097 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



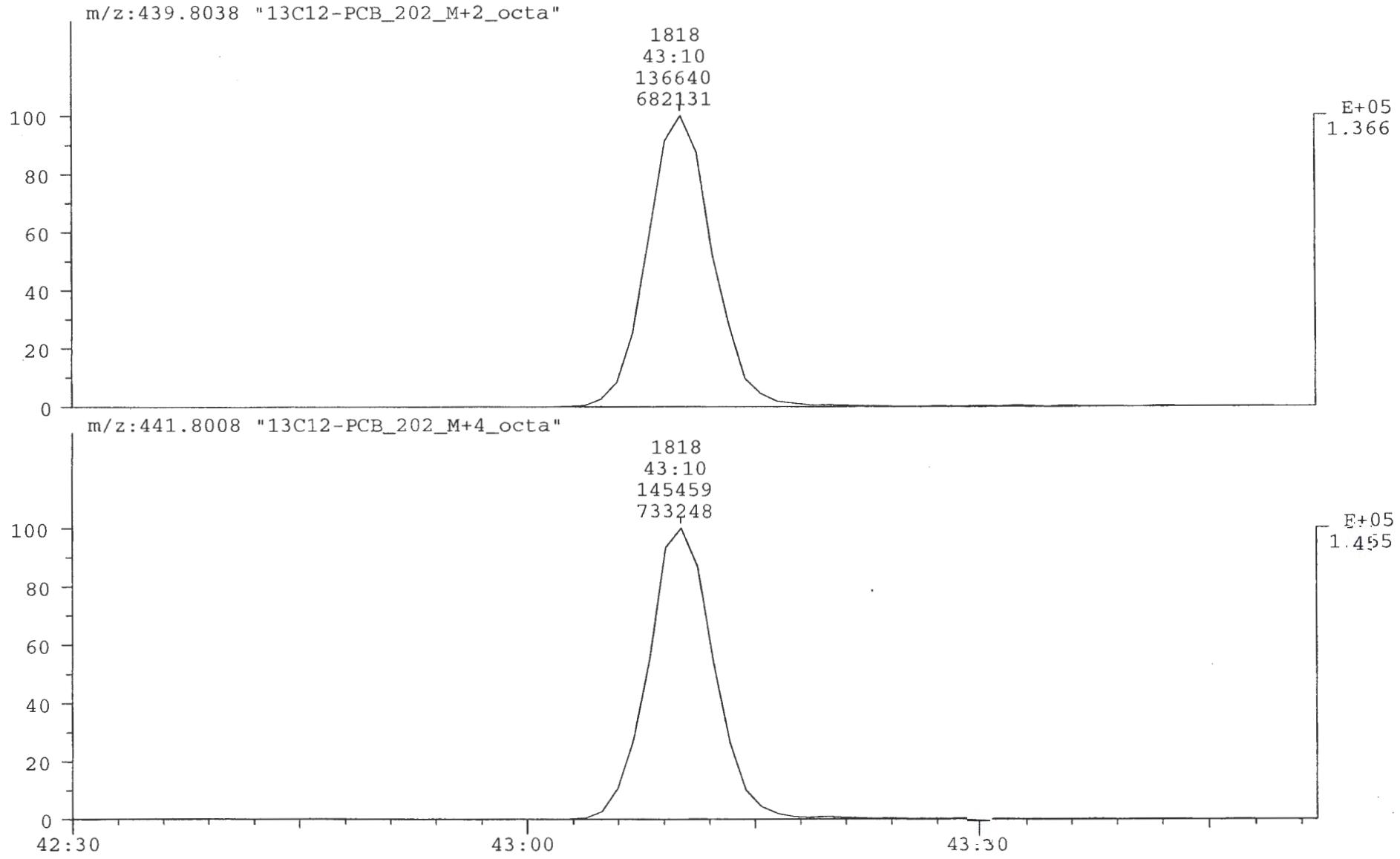
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  50:19      2220
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2196 > 2247           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                                15-Oct-07   Elapse:  48:02      2095
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1798 > 2389           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

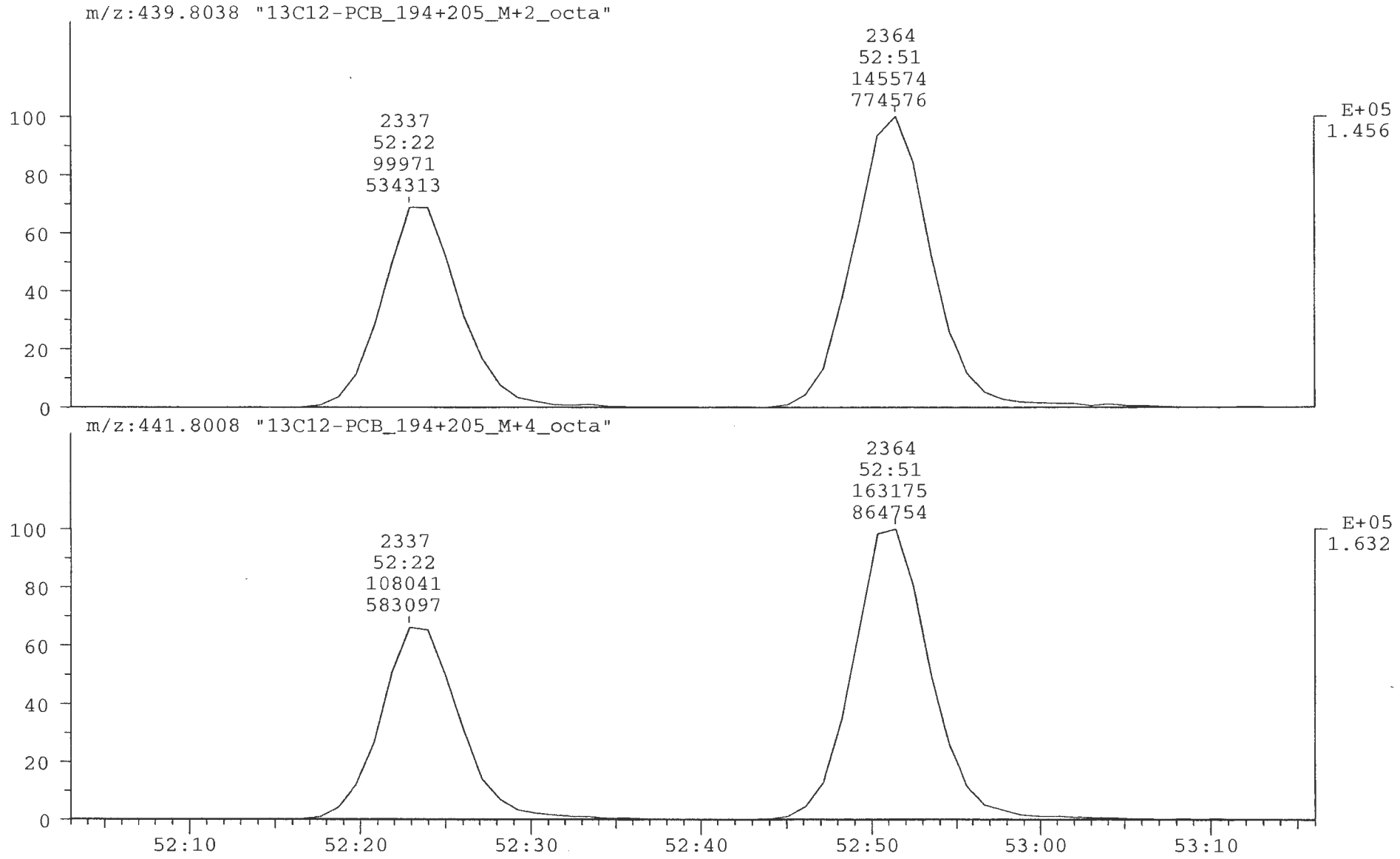


```
CHRO:  a071015s1                                15-Oct-07  Elapse:  43:08      1816
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1780 > 1858          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

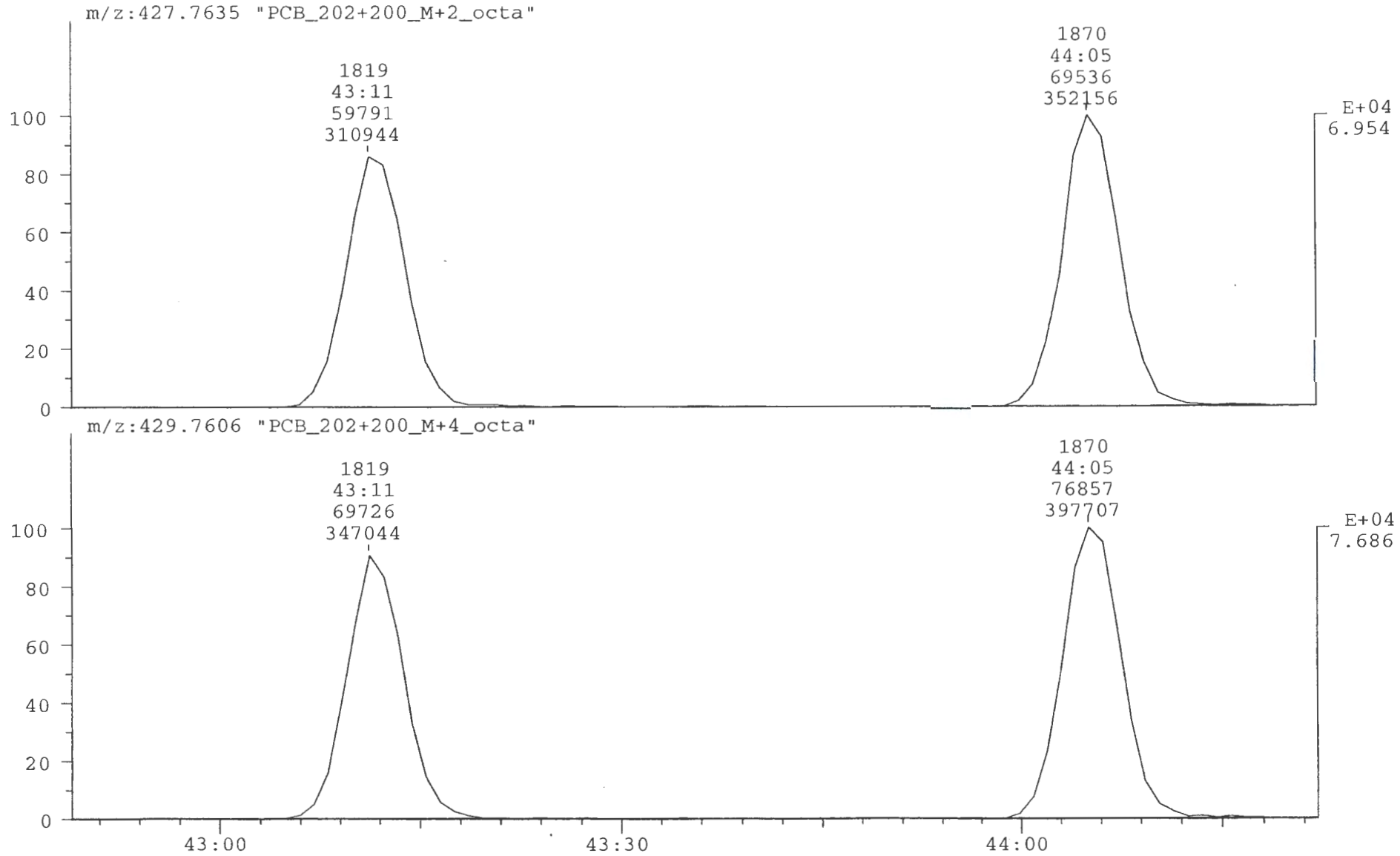


2903

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  52:38      2352
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial   1
Peak:  100.00  ppm     Label wndw:   2318 > 2387            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

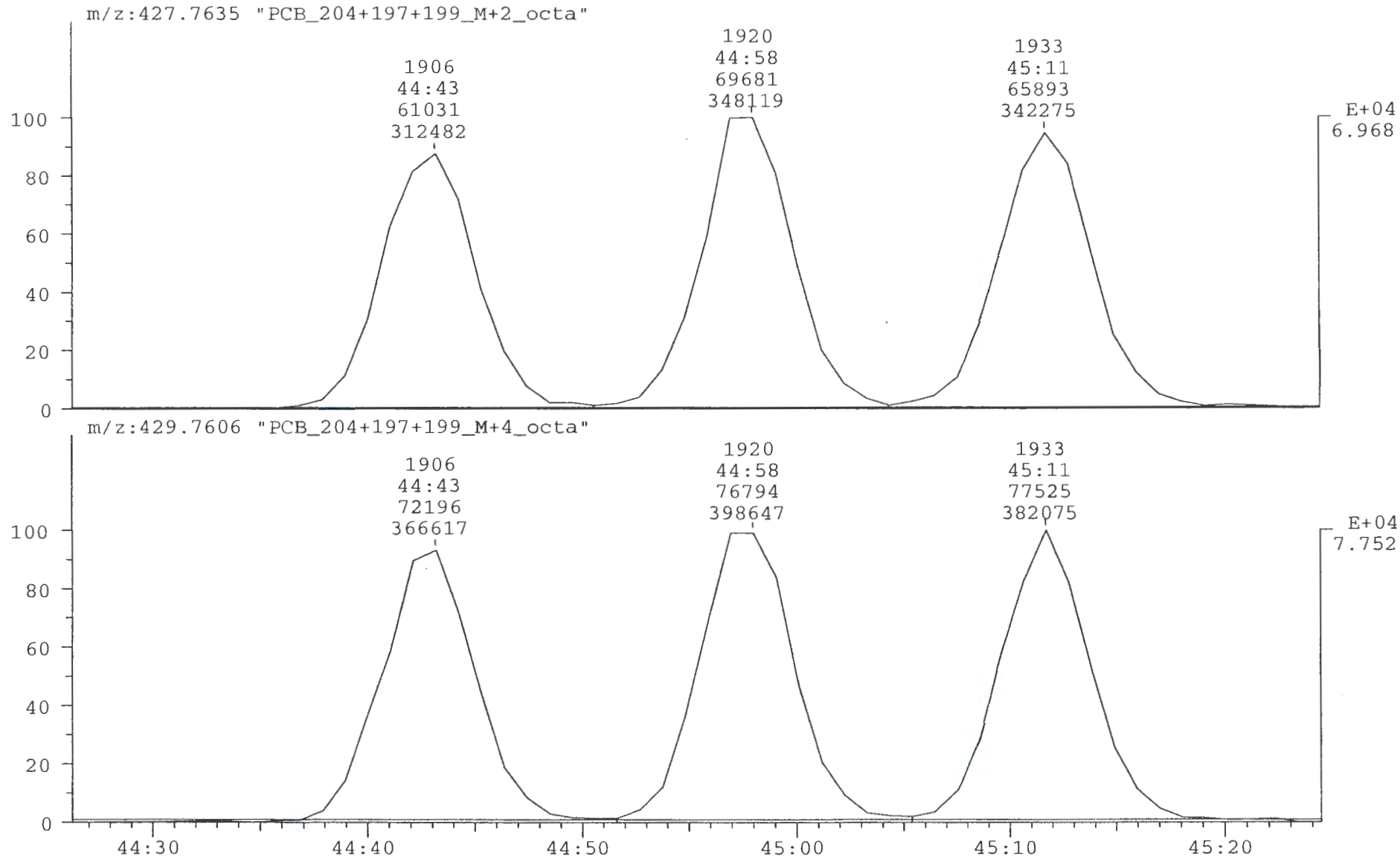


```
CHRO:  a071015s1                                15-Oct-07   Elapse:  43:39      1846
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1798 > 1886           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



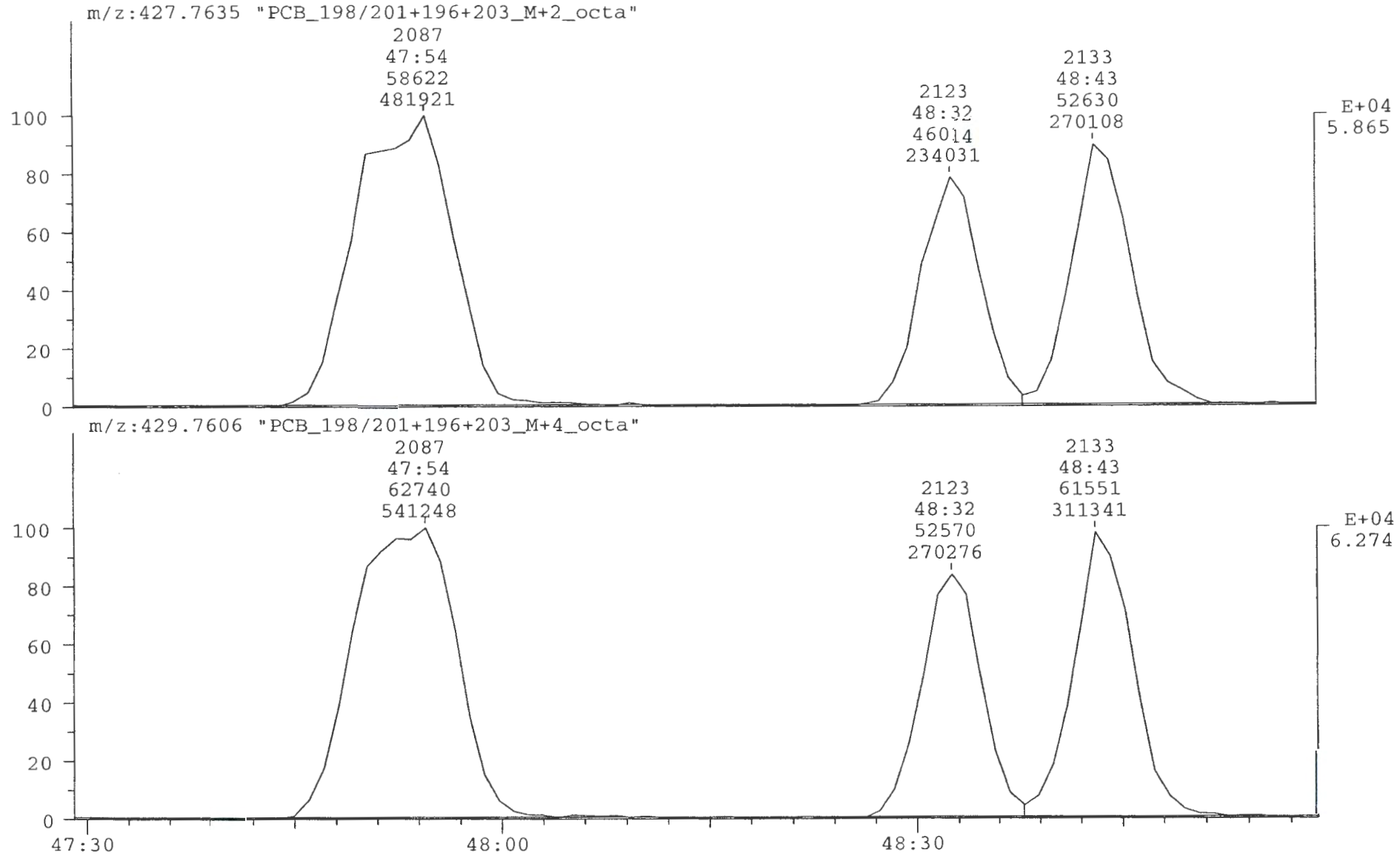
2905

```
CHRO:  a071015s1                              15-Oct-07   Elapse:  44:43       1906
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49    2600
Comm:  Inst=mld/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   1890 > 1945         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



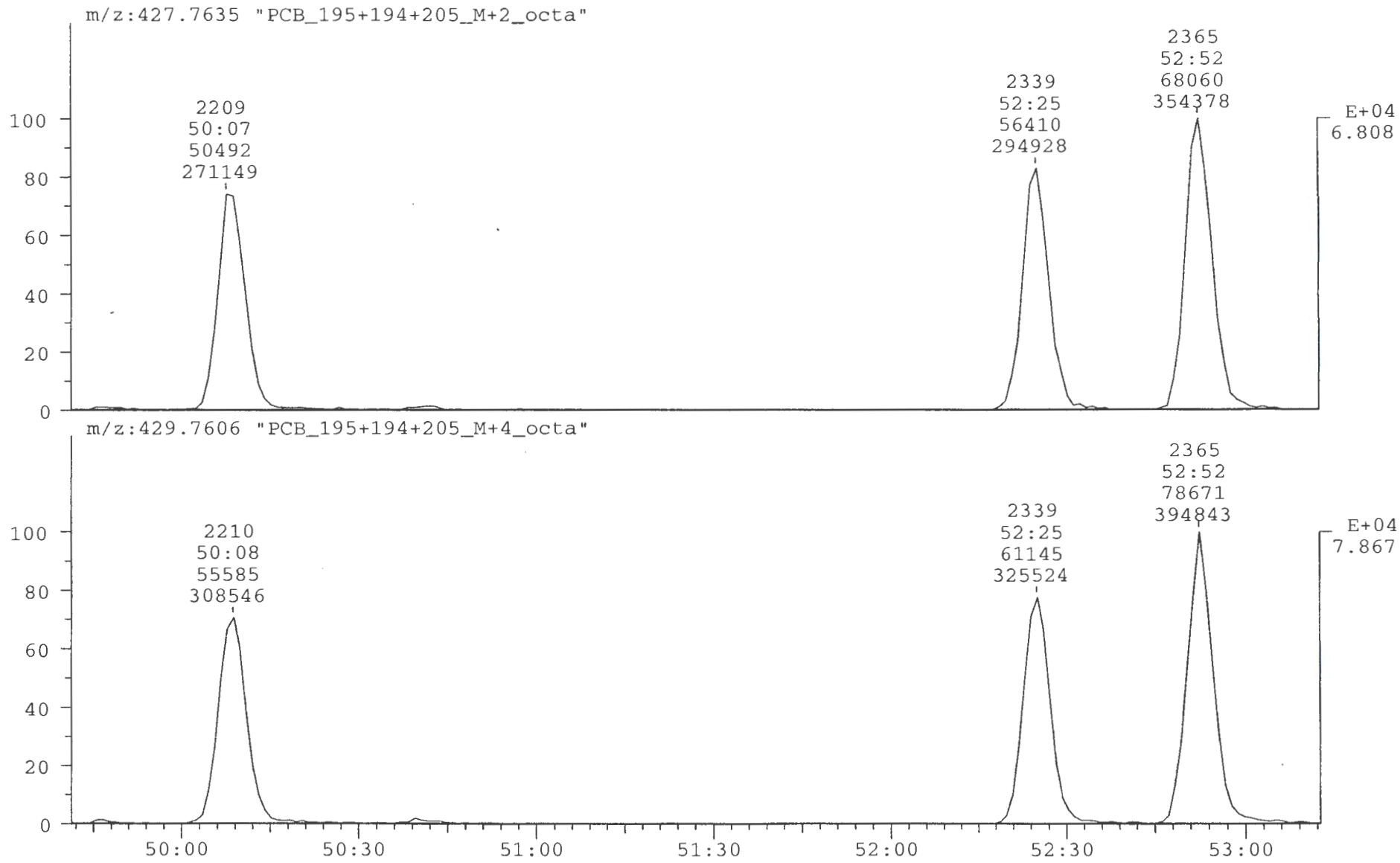
2906

```
CHRO:  a071015s1                                15-Oct-07  Elapse:  48:32      2123
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                    Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                  Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2063 > 2148           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



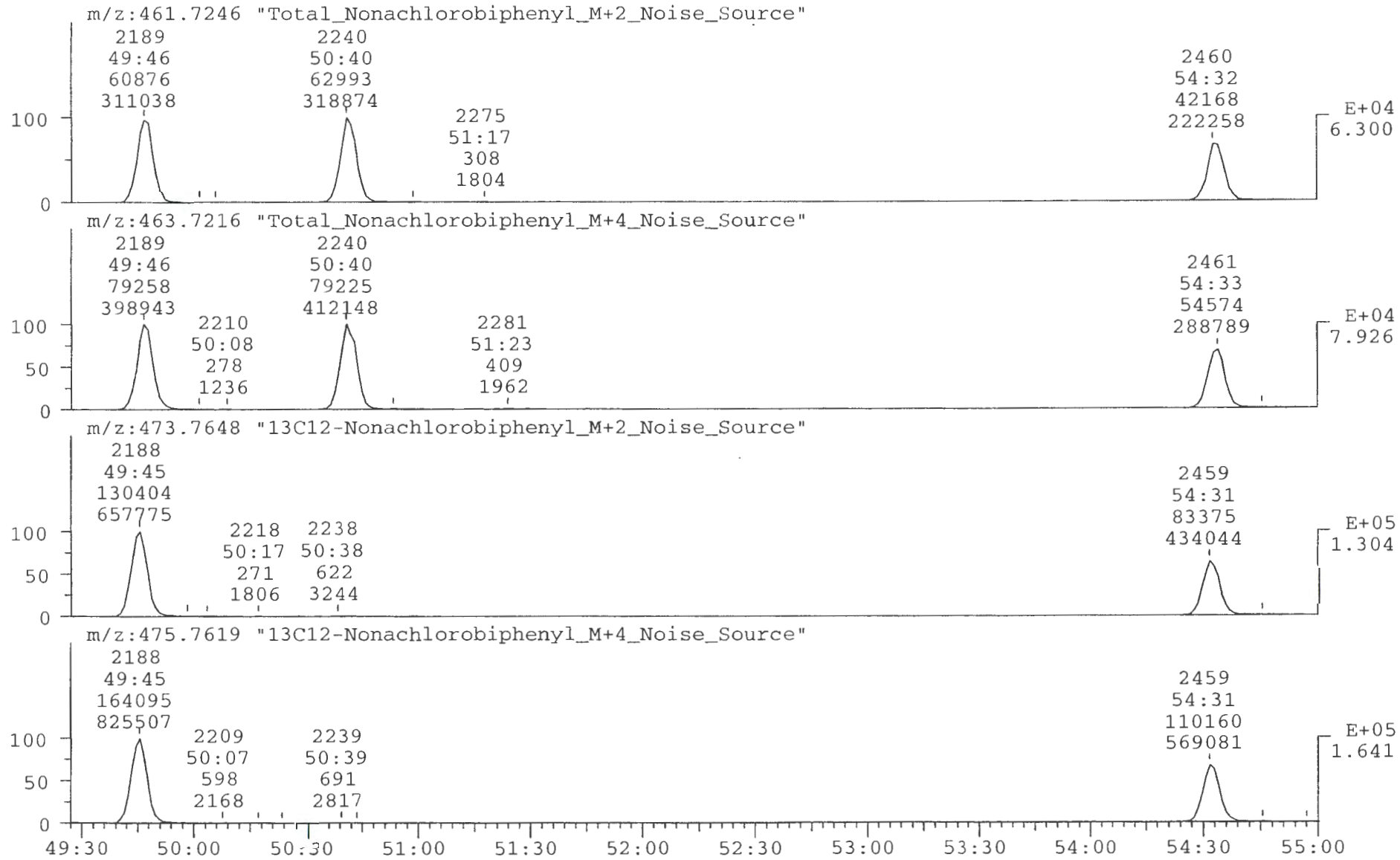
2907

```
CHRO:  a071015s1                                15-Oct-07   Elapse:  52:25      2339
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2184 > 2384            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

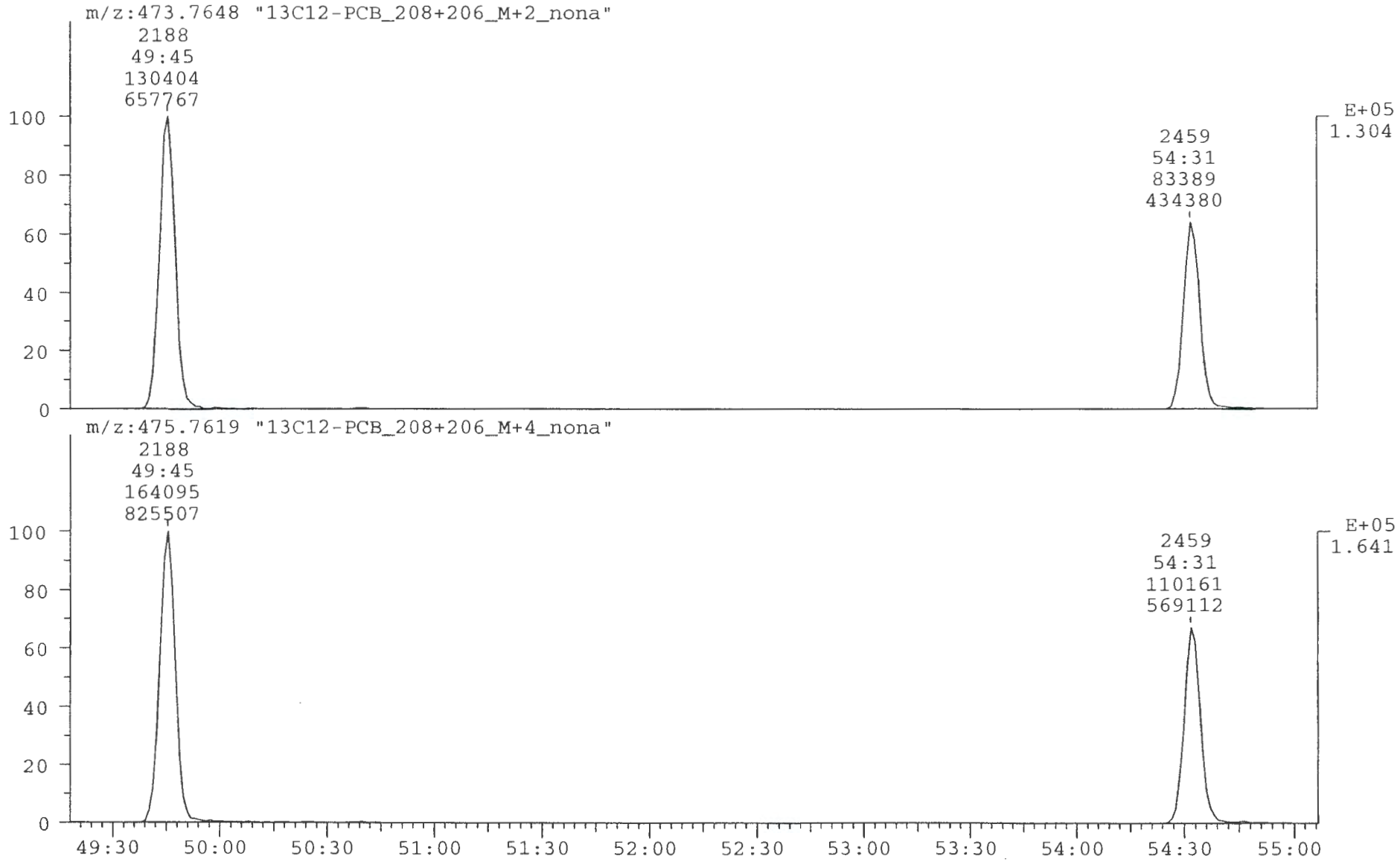


2908

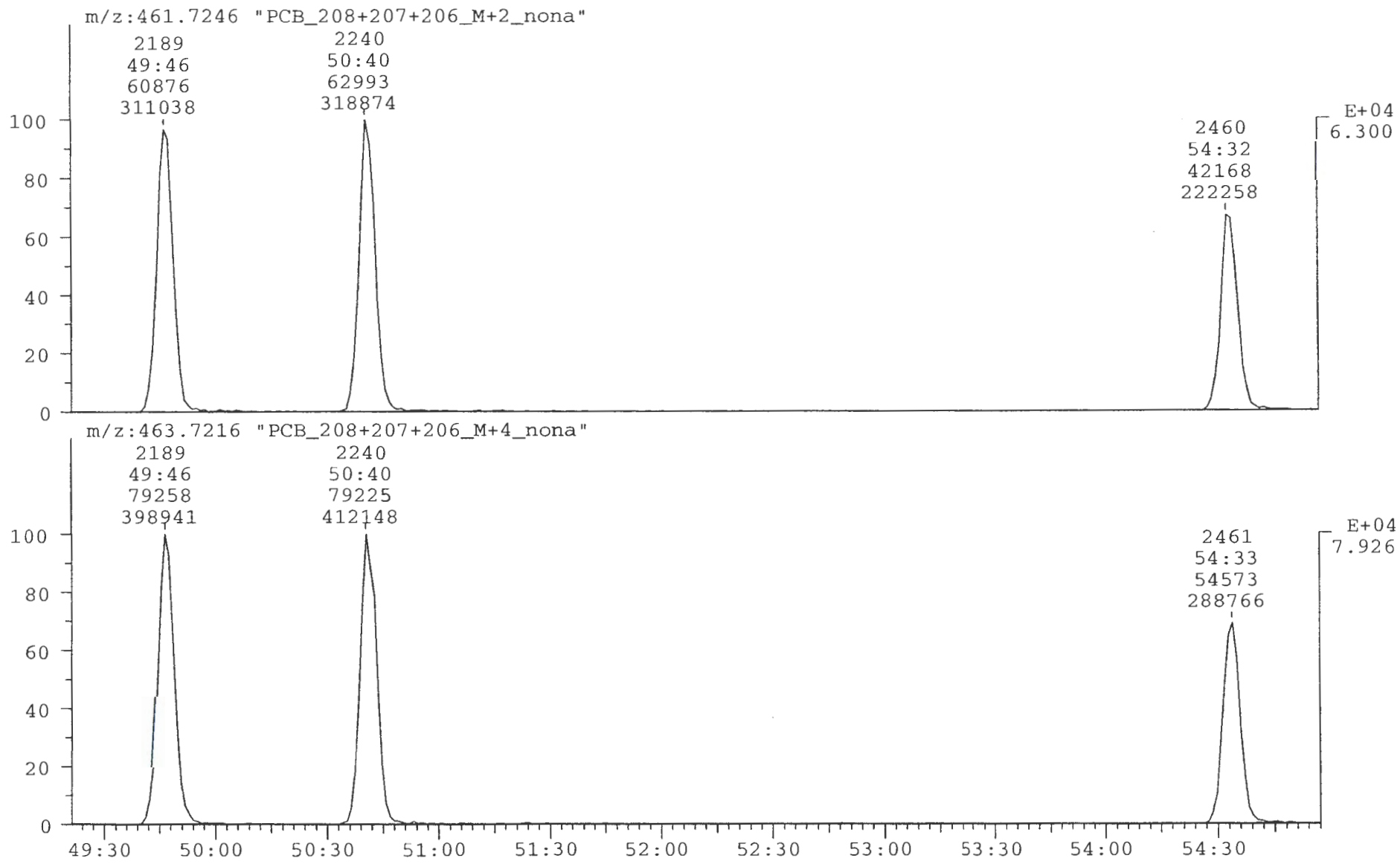
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  52:13      2328
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2171 > 2486           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



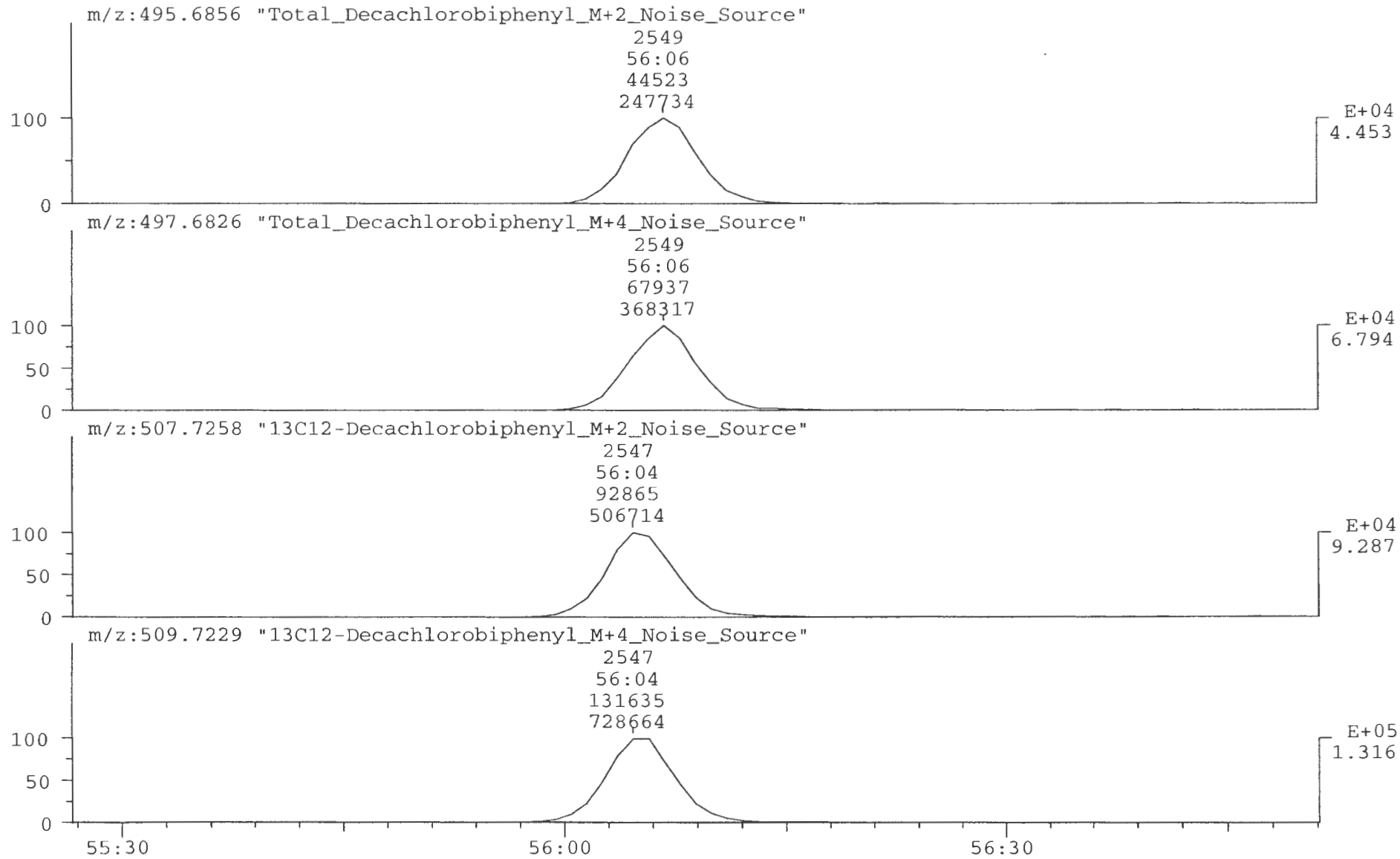
```
CHRO:  a071015s1                              15-Oct-07   Elapse:  52:12      2327
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG          Client:  TA Knoxville                 Inlet :  GC     Vial  1
Peak:  100.00  ppm     Label wndw:   2162 > 2492          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



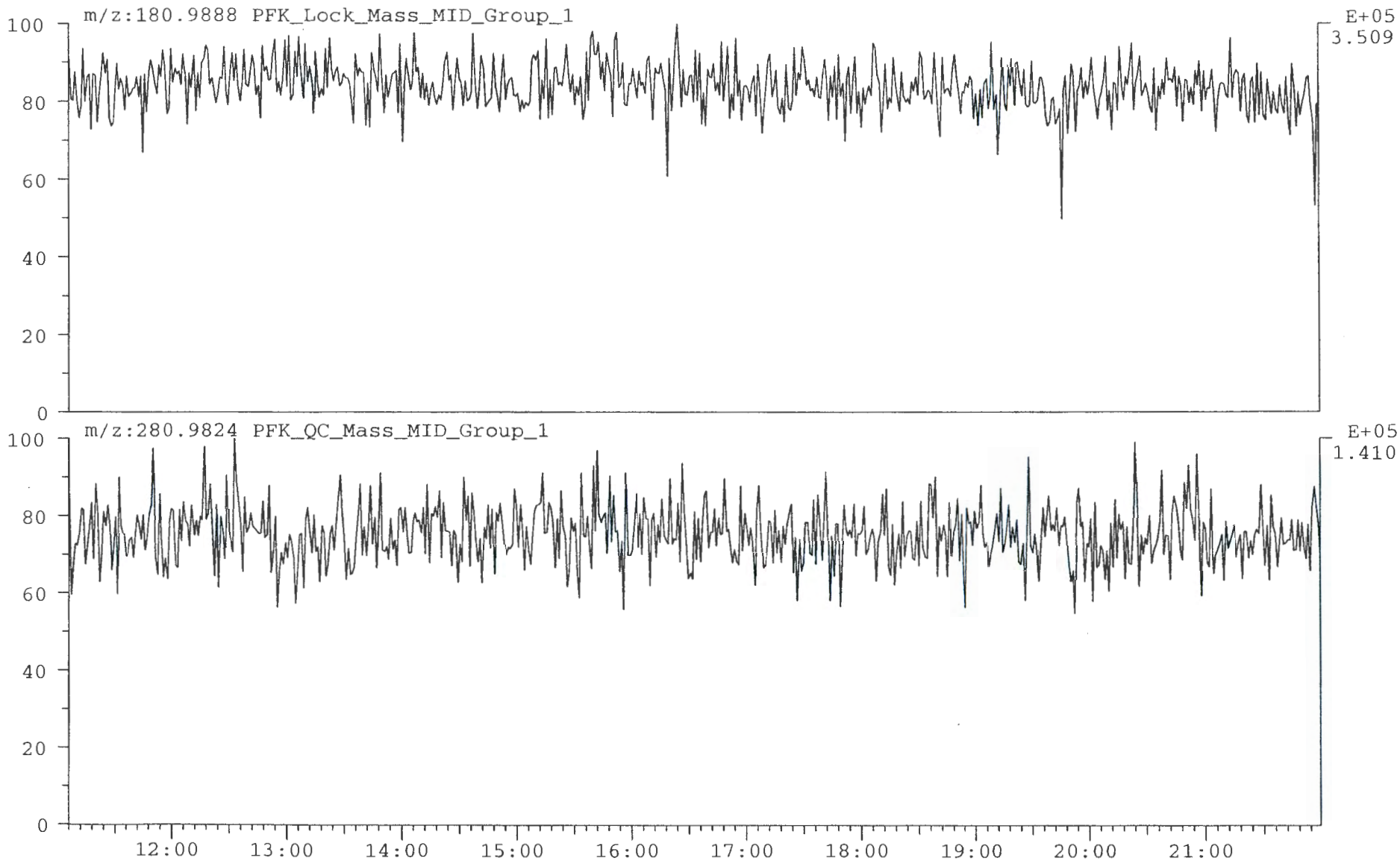
```
CHRO:  a071015s1                                15-Oct-07   Elapse:  52:13      2328
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                     Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                 Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2165 > 2483           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



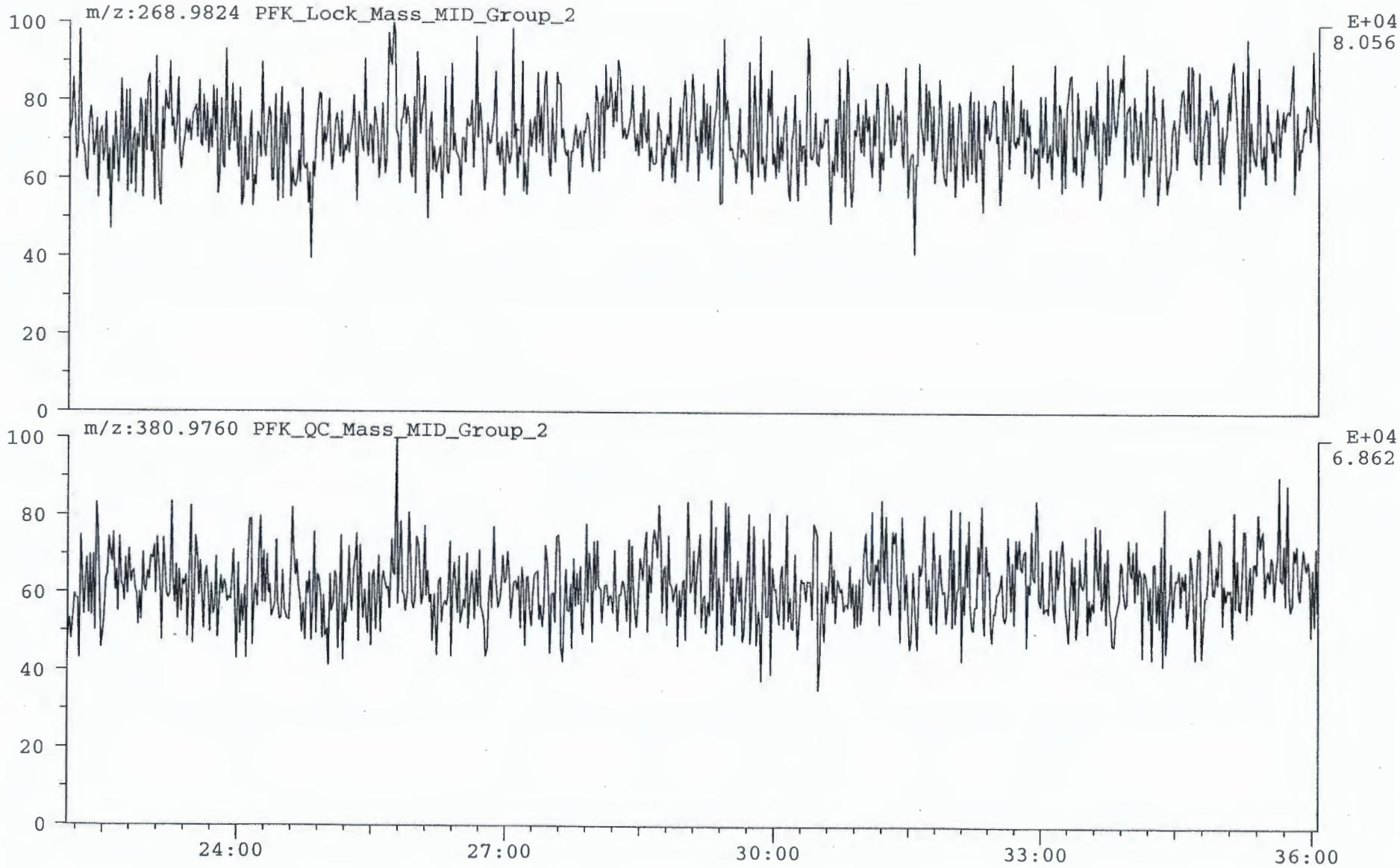
```
CHRO:  a071015s1                              15-Oct-07   Elapse:  56:12      2554
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2511 > 2591         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                              15-Oct-07   Elapse:  56:12      2554
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   6 > 624             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  0, 0.0
Disp:  Height  Area
```

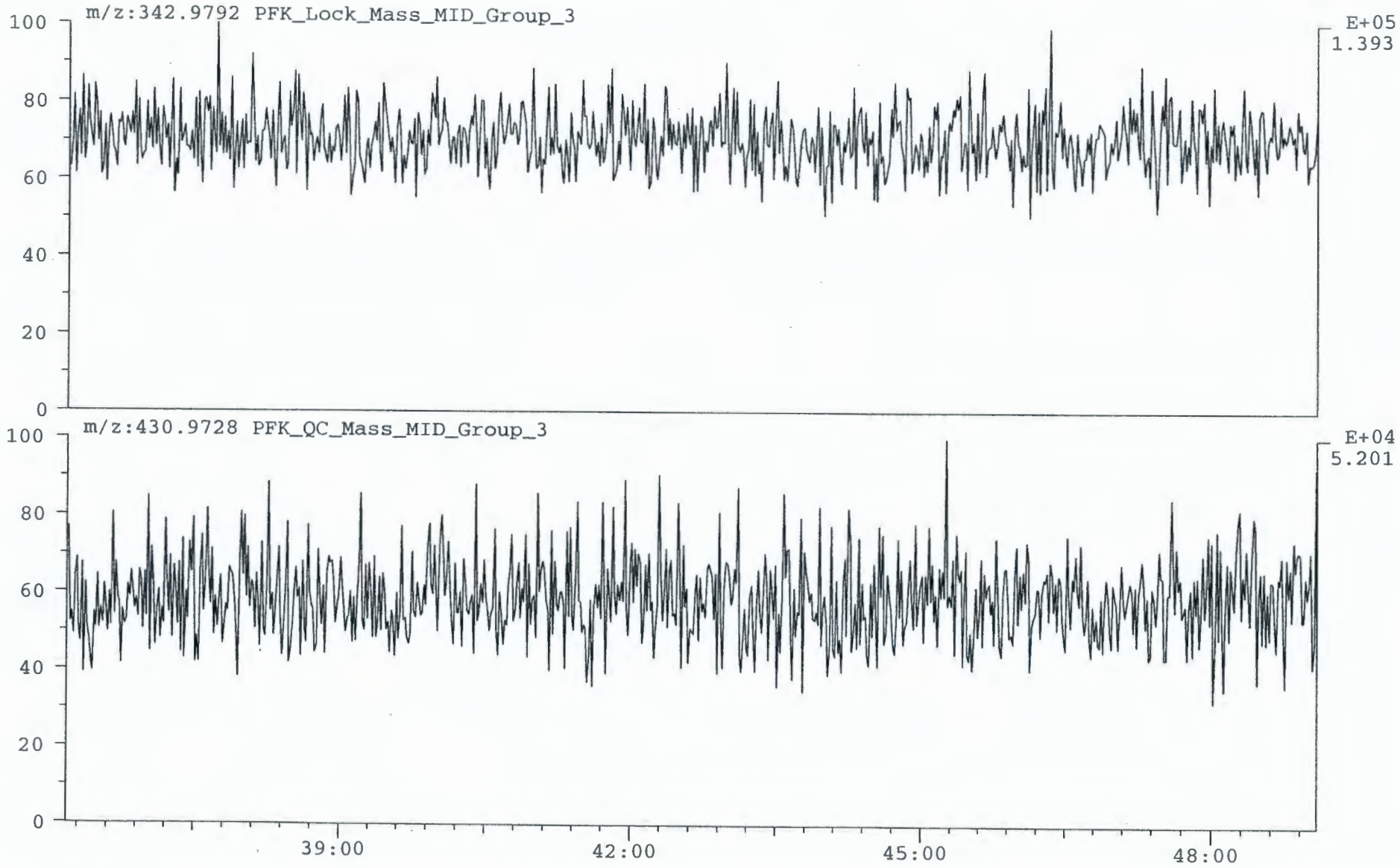


CHRO: a071015s1 15-Oct-07 Elapse: 56:12 2554
Samp: Vial 1 WO=2990:71 Meth=IE3 Dil=1 Start : 11:53:49 2600
Comm: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 Ver
Oper: DCG Client: TA Knoxville Inlet : GC Vial 1
Peak: 100.00 ppm Label wndw: 627 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

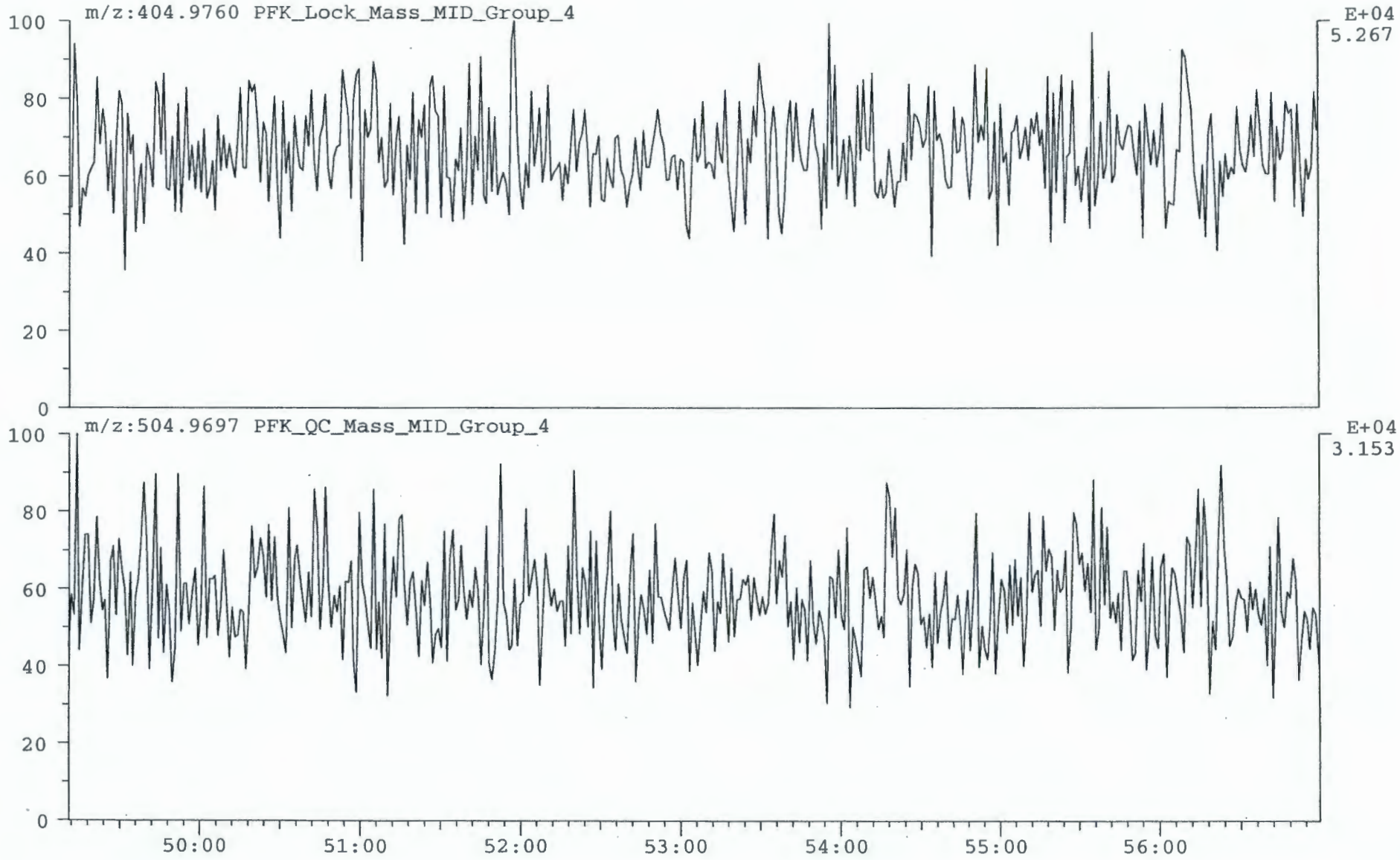


2914

```
CHRO:  a071015s1                                  15-Oct-07   Elapse:  56:12      2554
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                       Start :  11:53:49   2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                              Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville                   Inlet :  GC     Vial  1
Peak:  100.00  ppm      Label wndw:   1423 > 2153             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                  Label :  0, 0.0
Disp:  Height  Area
```



```
CHRO:  a071015s1                              15-Oct-07   Elapse:  56:12       2554
Samp:  Vial 1 WO=2990:71 Meth=IE3 Dil=1                   Start :  11:53:49    2600
Comm:  Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 Ver
Oper:  DCG            Client:  TA Knoxville               Inlet :  GC     Vial   1
Peak:  100.00  ppm      Label wndw:   2155 > 2598         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  0, 0.0
Disp:  Height  Area
```



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a071015s1
Study: 1668 Ver
Sample: WO=2990:71 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: TA Knoxville
Comments: Inst=m1d/35055-03a Batch=20071015s1 Ccal=20070313i
Injected volume: 2.00
Sample from Vial 1
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 1 of list 071015
ICL procedure: sleep7x
MID procedure: epa1668

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:00 min	14:05 min	36:05 min	1.00 sec
# 3	36:05 min	13:00 min	49:05 min	1.00 sec
# 4	49:05 min	7:55 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	1	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass F	int	gr	time (ms)
255.9613	1	1	47.79
257.9584	1	1	47.79
268.0016	1	1	47.79
268.9824 1	10	1	4.10
269.9986	1	1	47.79
289.9224	1	1	47.79
291.9194	1	1	47.79
301.9626	1	1	47.79
303.9597	1	1	47.79
325.8804	1	1	47.79
327.8775	1	1	47.79
337.9207	1	1	47.79
339.9178	1	1	47.79
359.8415	1	1	47.79
361.8385	1	1	47.79
371.8817	1	1	47.79
373.8788	1	1	47.79
380.9760 c	10	1	4.10

Window # 3

mass F	int	gr	time (ms)
325.8804	1	1	47.79
327.8775	1	1	47.79
337.9207	1	1	47.79
339.9178	1	1	47.79
342.9792 1	10	1	4.10
359.8415	1	1	47.79
361.8385	1	1	47.79
371.8817	1	1	47.79
373.8788	1	1	47.79
393.8025	1	1	47.79
395.7995	1	1	47.79
405.8428	1	1	47.79
407.8398	1	1	47.79
427.7635	1	1	47.79
429.7606	1	1	47.79
430.9728 c	10	1	4.10
439.8038	1	1	47.79
441.8008	1	1	47.79

Window # 4

mass F	int	gr	time (ms)
393.8025	1	1	47.79
395.7995	1	1	47.79
404.9760 1	10	1	4.10
405.8428	1	1	47.79
407.8398	1	1	47.79
427.7635	1	1	47.79
429.7606	1	1	47.79
439.8038	1	1	47.79
441.8008	1	1	47.79
461.7246	1	1	47.79
463.7216	1	1	47.79
473.7648	1	1	47.79
475.7619	1	1	47.79
495.6856	1	1	47.79
497.6826	1	1	47.79
504.9697 c	10	1	4.10
507.7258	1	1	47.79
509.7229	1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
Purge time 1.5 min
Purge flow 40.0 ml/min
Gas saver is on
Saver time 3.0 min
Saver flow 15.0 ml/min
Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1034.0919
BMASS	180.9888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.8824
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-47.6750
DRAWC	1.0000	DRAWS	-0.0050	ECORR	0.9984
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0001
EDACR	23.0000	EDACZ	-628.0000	ELEN	68.0750
EMULT	1.9000	ENS	205.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	150.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	301.0000
FVINLET	324.0000	FVSRC	963.0000	FWIN	0.7000
GCTC	75.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	1.4608	HVANAL	1263.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4783.8780	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1722.0000	LENSS	97.2000
LKM	180.9888	LM	800.0000	LMASS	180.9888
LMII	500.0000	MASS	180.9888	MDAC	2349141.2750

MDACR	23.0000	MRANGE	1034.0919	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	417747.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-16.2500
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10106.3017	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2429.0000
SHIELDS	0.4000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.9500	TCURR	0.9375
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	1.8450	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.9888	XLENS	2545.0000
XLENSS	40.0000	YLENS	2306.0000	YLENSS	-68.6000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 15-Oct-07 11:53:49.8

Autosampler has injected sample from vial 1
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 11209
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 10657
Analysis stopped at: 15-Oct-07 12:50:52.7 (run time 57.03 minutes)
Analysis stopped because MID run finished

Raw QC Data

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H7J050000 - 087B
Work Order #....: J8ALA1AA
Matrix....: BIOLOGICAL
Dilution Factor: 1
Prep Date....: 10/05/07
Analysis Date....: 10/12/07
Prep Batch # ....: 7278087
Initial Wgt/Vol : 10 g
Instrument ID....: M1D
Method: EPA-22 1668A
Analyst ID....: Daniel (Dan) C. Gobich

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 1 (BZ)	0.0072	J	0.010	0.00018	ng/g
PCB 2 (BZ)	0.0049	J	0.010	0.00020	ng/g
PCB 3 (BZ)	0.0033	Q J	0.010	0.00021	ng/g
PCB 4 (BZ)	0.0066	Q J	0.020	0.0013	ng/g
PCB 5 (BZ)	0.0036	Q J	0.010	0.0011	ng/g
PCB 6 (BZ)	0.0040	Q J	0.010	0.0011	ng/g
PCB 7 (BZ)	0.0040	Q J	0.010	0.0011	ng/g
PCB 8 (BZ)	0.0067	Q J	0.020	0.0010	ng/g
PCB 9 (BZ)	0.0048	Q J	0.010	0.0011	ng/g
PCB 10 (BZ)	0.0045	Q J	0.010	0.0012	ng/g
PCB 11 (BZ)	0.0077	Q J	0.020	0.0011	ng/g
PCB 12 (BZ)	0.0047	Q C J	0.010	0.0011	ng/g
PCB 13 (BZ)	0.0047	Q C12 J	0.010	0.0011	ng/g
PCB 14 (BZ)	0.0034	Q J	0.010	0.00091	ng/g
PCB 15 (BZ)	0.0021	Q J	0.010	0.0012	ng/g
PCB 16 (BZ)	0.0031	J	0.010	0.00079	ng/g
PCB 17 (BZ)	0.0037	J	0.010	0.00069	ng/g
PCB 18 (BZ)	0.0060	Q J	0.020	0.00072	ng/g
PCB 19 (BZ)	0.0026	Q J	0.010	0.00078	ng/g
PCB 20 (BZ)	0.0058	C J	0.020	0.00041	ng/g
PCB 21 (BZ)	0.0048	C J	0.010	0.00040	ng/g
PCB 22 (BZ)	0.0018	J	0.010	0.00042	ng/g
PCB 23 (BZ)	0.0012	Q J	0.010	0.00042	ng/g
PCB 24 (BZ)	ND		0.010	0.00051	ng/g
PCB 25 (BZ)	0.0013	Q J	0.010	0.00038	ng/g
PCB 26 (BZ)	0.0039	C J	0.010	0.00040	ng/g
PCB 27 (BZ)	0.0024	J	0.010	0.00047	ng/g
PCB 28 (BZ)	0.0058	C20 J	0.020	0.00041	ng/g
PCB 29 (BZ)	0.0039	C26 J	0.010	0.00040	ng/g
PCB 30 (BZ)	0.0027	J	0.020	0.00049	ng/g
PCB 31 (BZ)	0.0043	J	0.020	0.00040	ng/g
PCB 32 (BZ)	0.0023	Q J	0.010	0.00046	ng/g
PCB 33 (BZ)	0.0048	C21 J	0.010	0.00040	ng/g
PCB 34 (BZ)	0.0018	J	0.010	0.00042	ng/g
PCB 35 (BZ)	ND		0.010	0.00043	ng/g
PCB 36 (BZ)	0.00085	Q J	0.010	0.00040	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H7J050000 - 087B	Work Order #....:	J8ALA1AA	Matrix....:	BIOLOGICAL
Dilution Factor:	1				
Prep Date....:	10/05/07	Analysis Date....:	10/12/07		
Prep Batch # ....:	7278087				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Daniel (Dan) C. Gobich				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 37 (BZ)	0.0015	J	0.010	0.00042	ng/g
PCB 38 (BZ)	ND		0.010	0.00041	ng/g
PCB 39 (BZ)	0.00090	Q J	0.010	0.00038	ng/g
PCB 40 (BZ)	0.0034	C J	0.010	0.00061	ng/g
PCB 41 (BZ)	ND		0.010	0.00080	ng/g
PCB 42 (BZ)	ND		0.010	0.00068	ng/g
PCB 43 (BZ)	0.0019	Q C J	0.010	0.00061	ng/g
PCB 44 (BZ)	0.0061	Q C J	0.010	0.00057	ng/g
PCB 45 (BZ)	0.0025	Q C J	0.010	0.00068	ng/g
PCB 46 (BZ)	ND		0.010	0.00082	ng/g
PCB 47 (BZ)	0.0061	Q C44 J	0.010	0.00057	ng/g
PCB 48 (BZ)	ND		0.010	0.00066	ng/g
PCB 49 (BZ)	0.0029	J	0.010	0.00058	ng/g
PCB 50 (BZ)	0.0039	Q C J	0.010	0.00063	ng/g
PCB 51 (BZ)	0.0025	Q C45 J	0.010	0.00068	ng/g
PCB 52 (BZ)	0.0031	J	0.010	0.00063	ng/g
PCB 53 (BZ)	0.0039	Q C50 J	0.010	0.00063	ng/g
PCB 54 (BZ)	0.0018	Q J	0.010	0.00070	ng/g
PCB 55 (BZ)	ND		0.010	0.00050	ng/g
PCB 56 (BZ)	ND		0.010	0.00047	ng/g
PCB 57 (BZ)	ND		0.010	0.00049	ng/g
PCB 58 (BZ)	ND		0.010	0.00046	ng/g
PCB 59 (BZ)	0.0035	Q C J	0.010	0.00045	ng/g
PCB 60 (BZ)	ND		0.010	0.00049	ng/g
PCB 61 (BZ)	ND		0.020	0.00049	ng/g
PCB 62 (BZ)	0.0035	Q C59 J	0.010	0.00045	ng/g
PCB 63 (BZ)	ND		0.010	0.00043	ng/g
PCB 64 (BZ)	0.0016	J	0.010	0.00044	ng/g
PCB 65 (BZ)	0.0061	Q C44 J	0.010	0.00057	ng/g
PCB 66 (BZ)	0.0013	Q J	0.010	0.00045	ng/g
PCB 67 (BZ)	ND		0.010	0.00045	ng/g
PCB 68 (BZ)	0.00074	Q J	0.010	0.00044	ng/g
PCB 69 (BZ)	0.00059	Q J	0.010	0.00049	ng/g
PCB 70 (BZ)	0.0042	C J	0.020	0.00044	ng/g
PCB 71 (BZ)	0.0034	C40 J	0.010	0.00061	ng/g
PCB 72 (BZ)	ND		0.010	0.00046	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H7J050000 - 087B	**Work Order #....:**	J8ALA1AA	**Matrix....:**	BIOLOGICAL
Dilution Factor:	1				
Prep Date....:	10/05/07	**Analysis Date....:**	10/12/07		
Prep Batch # ....:	7278087				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Daniel (Dan) C. Gobich				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 73 (BZ)	**0.0019**	**Q C43 J**	**0.010**	**0.00061**	**ng/g**
PCB 74 (BZ)	**0.0042**	**C70 J**	**0.020**	**0.00044**	**ng/g**
PCB 75 (BZ)	**0.0035**	**Q C59 J**	**0.010**	**0.00045**	**ng/g**
PCB 76 (BZ)	**0.0042**	**C70 J**	**0.020**	**0.00044**	**ng/g**
PCB 77 (BZ)	ND		0.010	0.00048	ng/g
PCB 78 (BZ)	ND		0.010	0.00049	ng/g
PCB 79 (BZ)	ND		0.010	0.00042	ng/g
PCB 80 (BZ)	ND		0.010	0.00041	ng/g
PCB 81 (BZ)	ND		0.010	0.00044	ng/g
PCB 82 (BZ)	ND		0.010	0.00082	ng/g
PCB 83 (BZ)	ND		0.010	0.00064	ng/g
PCB 84 (BZ)	ND		0.010	0.00073	ng/g
PCB 85 (BZ)	ND		0.010	0.00051	ng/g
PCB 86 (BZ)	ND		0.010	0.00051	ng/g
PCB 87 (BZ)	ND		0.010	0.00051	ng/g
PCB 88 (BZ)	ND		0.010	0.00069	ng/g
PCB 89 (BZ)	ND		0.010	0.00069	ng/g
PCB 90 (BZ)	**0.0030**	**Q C J**	**0.010**	**0.00050**	**ng/g**
PCB 91 (BZ)	ND		0.010	0.00058	ng/g
PCB 92 (BZ)	ND		0.010	0.00064	ng/g
PCB 93 (BZ)	ND		0.010	0.00071	ng/g
PCB 94 (BZ)	ND		0.010	0.00071	ng/g
PCB 95 (BZ)	**0.0024**	**C J**	**0.010**	**0.00058**	**ng/g**
PCB 96 (BZ)	ND		0.010	0.00049	ng/g
PCB 97 (BZ)	ND		0.010	0.00051	ng/g
PCB 98 (BZ)	ND		0.010	0.00061	ng/g
PCB 99 (BZ)	ND		0.010	0.00064	ng/g
PCB 100 (BZ)	**0.0024**	**C95 J**	**0.010**	**0.00058**	**ng/g**
PCB 101 (BZ)	**0.0030**	**Q C90 J**	**0.010**	**0.00050**	**ng/g**
PCB 102 (BZ)	ND		0.010	0.00061	ng/g
PCB 103 (BZ)	ND		0.010	0.00057	ng/g
PCB 104 (BZ)	**0.0011**	**Q J**	**0.010**	**0.00043**	**ng/g**
PCB 105 (BZ)	ND		0.010	0.00035	ng/g
PCB 106 (BZ)	ND		0.010	0.00040	ng/g
PCB 107 (BZ)/109 (IUPAC)	ND		0.010	0.00039	ng/g
PCB 108 (BZ)/107 (IUPAC)	ND		0.010	0.00037	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H7J050000 - 087B	Work Order #....:	J8ALA1AA	Matrix....:	BIOLOGICAL
Dilution Factor:	1				
Prep Date....:	10/05/07	Analysis Date....:	10/12/07		
Prep Batch # ....:	7278087				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Daniel (Dan) C. Gobich				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 109 (BZ)/108 (IUPAC)	ND		0.010	0.00051	ng/g
PCB 110 (BZ)	**0.0019**	**C J**	**0.010**	**0.00044**	**ng/g**
PCB 111 (BZ)	ND		0.010	0.00044	ng/g
PCB 112 (BZ)	ND		0.010	0.00046	ng/g
PCB 113 (BZ)	**0.0030**	**Q C90 J**	**0.010**	**0.00050**	**ng/g**
PCB 114 (BZ)	ND		0.010	0.00034	ng/g
PCB 115 (BZ)	**0.0019**	**C110 J**	**0.010**	**0.00044**	**ng/g**
PCB 116 (BZ)	ND		0.010	0.00051	ng/g
PCB 117 (BZ)	ND		0.010	0.00051	ng/g
PCB 118 (BZ)	**0.0011**	**Q J**	**0.010**	**0.00034**	**ng/g**
PCB 119 (BZ)	ND		0.010	0.00051	ng/g
PCB 120 (BZ)	ND		0.010	0.00042	ng/g
PCB 121 (BZ)	**0.00077**	**J**	**0.010**	**0.00045**	**ng/g**
PCB 122 (BZ)	ND		0.010	0.00040	ng/g
PCB 123 (BZ)	ND		0.010	0.00037	ng/g
PCB 124 (BZ)	ND		0.010	0.00037	ng/g
PCB 125 (BZ)	ND		0.010	0.00051	ng/g
PCB 126 (BZ)	ND		0.010	0.00041	ng/g
PCB 127 (BZ)	ND		0.010	0.00037	ng/g
PCB 128 (BZ)	ND		0.010	0.00080	ng/g
PCB 129 (BZ)	**0.0015**	**Q C J**	**0.010**	**0.00067**	**ng/g**
PCB 130 (BZ)	ND		0.010	0.00087	ng/g
PCB 131 (BZ)	ND		0.010	0.00086	ng/g
PCB 132 (BZ)	**0.00087**	**Q J**	**0.010**	**0.00086**	**ng/g**
PCB 133 (BZ)	ND		0.010	0.00080	ng/g
PCB 134 (BZ)	ND		0.010	0.00086	ng/g
PCB 135 (BZ)	**0.0018**	**Q C J**	**0.010**	**0.00063**	**ng/g**
PCB 136 (BZ)	**0.00056**	**J**	**0.010**	**0.00051**	**ng/g**
PCB 137 (BZ)	ND		0.010	0.00073	ng/g
PCB 138 (BZ)	**0.0015**	**Q C129 J**	**0.010**	**0.00067**	**ng/g**
PCB 139 (BZ)	ND		0.010	0.00072	ng/g
PCB 140 (BZ)	ND		0.010	0.00072	ng/g
PCB 141 (BZ)	ND		0.010	0.00081	ng/g
PCB 142 (BZ)	ND		0.010	0.00083	ng/g
PCB 143 (BZ)	ND		0.010	0.00086	ng/g
PCB 144 (BZ)	ND		0.010	0.00065	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H7J050000 - 087B	Work Order #....:	J8ALA1AA	Matrix....:	BIOLOGICAL
Dilution Factor:	1				
Prep Date....:	10/05/07	Analysis Date....:	10/12/07		
Prep Batch # ....:	7278087				
Initial Wgt/Vol :	10 g	Instrument ID....:	M1D	Method:	EPA-22 1668A
Analyst ID....:	Daniel (Dan) C. Gobich				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 145 (BZ)	ND		0.010	0.00048	ng/g
PCB 146 (BZ)	ND		0.010	0.00070	ng/g
PCB 147 (BZ)	**0.0024**	**C J**	**0.010**	**0.00071**	**ng/g**
PCB 148 (BZ)	ND		0.010	0.00066	ng/g
PCB 149 (BZ)	**0.0024**	**C147 J**	**0.010**	**0.00071**	**ng/g**
PCB 150 (BZ)	ND		0.010	0.00048	ng/g
PCB 151 (BZ)	**0.0018**	**Q C135 J**	**0.010**	**0.00063**	**ng/g**
PCB 152 (BZ)	ND		0.010	0.00048	ng/g
PCB 153 (BZ)	**0.0017**	**Q C J**	**0.010**	**0.00057**	**ng/g**
PCB 154 (BZ)	**0.0018**	**Q C135 J**	**0.010**	**0.00063**	**ng/g**
PCB 155 (BZ)	ND		0.010	0.00044	ng/g
PCB 156 (BZ)	ND		0.010	0.00071	ng/g
PCB 157 (BZ)	ND		0.010	0.00071	ng/g
PCB 158 (BZ)	ND		0.010	0.00052	ng/g
PCB 159 (BZ)	ND		0.010	0.00057	ng/g
PCB 160 (BZ)	**0.0015**	**Q C129 J**	**0.010**	**0.00067**	**ng/g**
PCB 161 (BZ)	ND		0.010	0.00056	ng/g
PCB 162 (BZ)	ND		0.010	0.00057	ng/g
PCB 163 (BZ)	**0.0015**	**Q C129 J**	**0.010**	**0.00067**	**ng/g**
PCB 164 (BZ)	ND		0.010	0.00059	ng/g
PCB 165 (BZ)	ND		0.010	0.00062	ng/g
PCB 166 (BZ)	ND		0.010	0.00056	ng/g
PCB 167 (BZ)	ND		0.010	0.00037	ng/g
PCB 168 (BZ)	**0.0017**	**Q C153 J**	**0.010**	**0.00057**	**ng/g**
PCB 169 (BZ)	ND		0.010	0.00044	ng/g
PCB 170 (BZ)	ND		0.010	0.00053	ng/g
PCB 171 (BZ)	ND		0.010	0.00049	ng/g
PCB 172 (BZ)	ND		0.010	0.00049	ng/g
PCB 173 (BZ)	ND		0.010	0.00049	ng/g
PCB 174 (BZ)	ND		0.010	0.00044	ng/g
PCB 175 (BZ)	ND		0.010	0.00044	ng/g
PCB 176 (BZ)	ND		0.010	0.00032	ng/g
PCB 177 (BZ)	ND		0.010	0.00046	ng/g
PCB 178 (BZ)	ND		0.010	0.00046	ng/g
PCB 179 (BZ)	**0.0011**	**Q J**	**0.010**	**0.00034**	**ng/g**
PCB 180 (BZ)	ND		0.010	0.00036	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H7J050000 - 087B	**Work Order #....:**	J8ALA1AA	**Matrix....:**	BIOLOGICAL
Dilution Factor:	1				
Prep Date....:	10/05/07	**Analysis Date....:**	10/12/07		
Prep Batch # ....:	7278087				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Daniel (Dan) C. Gobich				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
PCB 181 (BZ)	ND		0.010	0.00042	ng/g
PCB 182 (BZ)	ND		0.010	0.00042	ng/g
PCB 183 (BZ)	**0.00059**	**Q J**	**0.010**	**0.00043**	**ng/g**
PCB 184 (BZ)	ND		0.010	0.00035	ng/g
PCB 185 (BZ)	ND		0.010	0.00044	ng/g
PCB 186 (BZ)	ND		0.010	0.00033	ng/g
PCB 187 (BZ)	ND		0.010	0.00040	ng/g
PCB 188 (BZ)	ND		0.010	0.00030	ng/g
PCB 189 (BZ)	ND		0.010	0.00029	ng/g
PCB 190 (BZ)	ND		0.010	0.00032	ng/g
PCB 191 (BZ)	ND		0.010	0.00033	ng/g
PCB 192 (BZ)	ND		0.010	0.00035	ng/g
PCB 193 (BZ)	ND		0.010	0.00036	ng/g
PCB 194 (BZ)	ND		0.010	0.00037	ng/g
PCB 195 (BZ)	ND		0.010	0.00041	ng/g
PCB 196 (BZ)	ND		0.010	0.00042	ng/g
PCB 197 (BZ)	ND		0.010	0.00030	ng/g
PCB 198 (BZ)	ND		0.010	0.00041	ng/g
PCB 201 (BZ)/199 (IUPAC)	ND		0.010	0.00041	ng/g
PCB 199 (BZ)/200 (IUPAC)	ND		0.010	0.00030	ng/g
PCB 200 (BZ)/201 (IUPAC)	ND		0.010	0.00029	ng/g
PCB 202 (BZ)	ND		0.010	0.00032	ng/g
PCB 203 (BZ)	ND		0.010	0.00037	ng/g
PCB 204 (BZ)	ND		0.010	0.00030	ng/g
PCB 205 (BZ)	ND		0.010	0.00030	ng/g
PCB 206 (BZ)	ND		0.010	0.00040	ng/g
PCB 207 (BZ)	ND		0.010	0.00027	ng/g
PCB 208 (BZ)	ND		0.010	0.00028	ng/g
PCB 209 (BZ)	ND		0.010	0.00035	ng/g

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H7J050000 - 087B	**Work Order #....:**	J8ALA1AA	**Matrix....:**	BIOLOGICAL
Dilution Factor:	1				
Prep Date....:	10/05/07	**Analysis Date....:**	10/12/07		
Prep Batch # ....:	7278087				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Daniel (Dan) C. Gobich				

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	65		30 - 140
13C12-PCB 3	66		30 - 140
13C12-PCB 4	74		30 - 140
13C12-PCB 15	73		30 - 140
13C12-PCB 19	81		30 - 140
13C12-PCB 37	80		30 - 140
13C12-PCB 54	74		30 - 140
13C12-PCB 77	83		30 - 140
13C12-PCB 81	82		30 - 140
13C12-PCB 104	87		30 - 140
13C12-PCB 105	91		30 - 140
13C12-PCB 114	90		30 - 140
13C12-PCB 118	95		30 - 140
13C12-PCB 123	91		30 - 140
13C12-PCB 126	86		30 - 140
13C12-PCB 155	91		30 - 140
13C12-PCB 156	93	C	30 - 140
13C12-PCB 157	93	C	30 - 140
13C12-PCB 167	94		30 - 140
13C12-PCB 169	73		30 - 140
13C12-PCB 170	95		30 - 140
13C12-PCB 188	97		30 - 140
13C12-PCB 189	96		30 - 140
13C12-PCB 202	101		30 - 140
13C12-PCB 205	93		30 - 140
13C12-PCB 206	98		30 - 140
13C12-PCB 208	104		30 - 140
13C12-PCB 209	105		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	84	40 - 125
13C12-PCB 111	94	40 - 125
13C12-PCB 178	90	40 - 125

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H7J050000 - 087B	**Work Order #....:**	J8ALA1AA	**Matrix....:**	BIOLOGICAL
Dilution Factor:	1				
Prep Date....:	10/05/07	**Analysis Date....:**	10/12/07		
Prep Batch # ....:	7278087				
Initial Wgt/Vol :	10 g	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Daniel (Dan) C. Gobich				

QUALIFIERS

C Co-eluting isomer.

J Estimated Result.

Q Estimated maximum possible concentration (EMPC).

STL - Knoxville

IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	14:21	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
Total Monochlorobiphenyl		38411	14096			0.153921		0.015392	JQ	0.000590
13C12-PCB 1	12:17	1963284	694435	1.318	10.00	6.523862	65.24	0.652386		0.000618
13C12-PCB 3	14:33	1988448	568642	1.325	10.00	6.568548	65.69	0.656855		0.000614
PCB 1 (BZ)	12:19	17639	7571	1.253		0.071711		0.007171	J	0.000181
PCB 2 (BZ)	14:21	11917	3960	1.226		0.049181		0.004918	J	0.000203
PCB 3 (BZ)	14:34	8855	2565	1.348		0.033029		0.003303	QJ	0.000205
Total Dichlorobiphenyl		101604	24640			0.520917		0.052092	QJ	0.0121
13C12-PCB 4	14:50	1038211	328848	0.615	10.00	7.393147	73.93	0.739315		0.000915
13C12-PCB 9	16:46	2283858	586559	1.000	10.00	10.000000	100.00	1.000000		0.000563
13C12-PCB 8				1.332	5.000			ND		0.000717
13C12-PCB 15	20:51	1781793	361594	1.065	10.00	7.326984	73.27	0.732698		0.000528
PCB 4 (BZ)	14:51	8338	2466	1.212		0.066288		0.006629	QJ	0.00134
PCB 10 (BZ)	14:59	8410	2980	1.326		0.044996		0.004500	QJ	0.00116
PCB 9 (BZ)	16:48	9746	3106	1.445		0.047826		0.004783	QJ	0.00107
PCB 7 (BZ)	16:56	8112	1963	1.432		0.040182		0.004018	QJ	0.00108
PCB 6 (BZ)	17:14	8251	1969	1.450		0.040354		0.004035	QJ	0.00106
PCB 5 (BZ)	17:33	6828	1767	1.356		0.035717		0.003572	QJ	0.00114
PCB 8 (BZ)	17:41	14032	3333	1.477		0.067387		0.006739	QJ	0.00104
PCB 14 (BZ)	19:15	8107	2110	1.687		0.034072		0.003407	QJ	0.000914
PCB 11 (BZ)	20:11	15634	3873	1.448		0.076590		0.007659	QJ	0.00107
PCB 13 (BZ)	20:30	9541	1690	1.454		0.046540		0.004654	QC12J	0.00106
PCB 12 (BZ)		9541		1.454		0.046540		0.004654	QCJ	0.00106
PCB 15 (BZ)	20:50	4605	1072	1.233		0.020964		0.002096	QJ	0.00119
Total Trichlorobiphenyl		94292	21731			0.508752		0.050875	QJ	0.0102
13C12-PCB 19	18:02	773747	199733	0.558	10.00	8.133839	81.34	0.813384		0.00312
13C12-PCB 32	21:16	1703732	398057	1.000	10.00	10.000000	100.00	1.000000		0.00174
13C12-PCB 31	23:31	2713787	590341	1.000	10.00	10.000000	100.00	1.000000		0.00117
13C12-PCB 28	23:48	2206383	452439	0.968	10.00	8.400270	84.00	0.840027		0.00121
13C12-PCB 37	27:57	1931859	356846	0.885	10.00	8.041416	80.41	0.804142		0.00133
PCB 19 (BZ)	18:03	2381	836	1.178		0.026126		0.002613	QJ	0.000776
PCB 30 (BZ)	19:43	3858	1141	1.874		0.026601		0.002660	J	0.000487
PCB 18 (BZ)	19:53	5851	2199	1.262		0.059915		0.005992	QJ	0.000724
PCB 17 (BZ)	20:18	3793	1218	1.326		0.036970		0.003697	J	0.000689
PCB 27 (BZ)	20:34	3615	1188	1.945		0.024019		0.002402	J	0.000470
PCB 24 (BZ)				1.782				ND		0.000513
PCB 16 (BZ)	20:50	2773	824	1.157		0.030966		0.003097	J	0.000790
PCB 32 (BZ)	21:19	3427	983	1.966		0.022522		0.002252	QJ	0.000465
PCB 34 (BZ)	22:30	4188	1120	1.216		0.017828		0.001783	J	0.000421
PCB 23 (BZ)	22:38	2846	920	1.208		0.012198		0.001220	QJ	0.000423
PCB 29 (BZ)	22:58	9594	1674	1.265		0.039267		0.003927	C26J	0.000404
PCB 26 (BZ)		9594		1.265		0.039267		0.003927	CJ	0.000404
PCB 25 (BZ)	23:12	3448	1412	1.362		0.013107		0.001311	QJ	0.000376
PCB 31 (BZ)	23:34	10592	2607	1.285		0.042653		0.004265	J	0.000398
PCB 28 (BZ)	23:51	13895	2419	1.238		0.058083		0.005808	C20J	0.000413
PCB 20 (BZ)		13895		1.238		0.058083		0.005808	CJ	0.000413
PCB 21 (BZ)		11715		1.276		0.047539		0.004754	CJ	0.000401
PCB 33 (BZ)	24:06	11715	1867	1.276		0.047539		0.004754	C21J	0.000401
PCB 22 (BZ)	24:33	4328	1121	1.218		0.018391		0.001839	J	0.000420
PCB 36 (BZ)	26:00	2122	502	1.286		0.008541		0.000854	QJ	0.000398

DCG 10/12/07

BFW 10/15/07

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PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	14:21	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 39 (BZ)	26:25	2321	549	1.330		0.009031		0.000903	QJ	0.000385
PCB 38 (BZ)				1.246				ND		0.000410
PCB 35 (BZ)				1.195				ND		0.000428
PCB 37 (BZ)	27:58	3546	825	1.224		0.014992		0.001499	J	0.000418
Total Tetrachlorobiphenyl		59237	5625			0.376956		0.037696	QJ	0.0172
13C12-PCB 54	21:11	753661	179115	0.598	10.00	7.402578	74.03	0.740258		0.00105
13C12-PCB 52	25:39	1403977	308040	1.000	10.00	10.000000	100.00	1.000000		0.000812
13C12-PCB 79				1.089	5.000			ND		0.000876
13C12-PCB 81	34:39	1480351	261453	1.286	10.00	8.196408	81.96	0.819641		0.000631
13C12-PCB 77	35:15	1505608	262682	1.297	10.00	8.267041	82.67	0.826704		0.000626
PCB 54 (BZ)	21:12	1621	285	1.211		0.017763		0.001776	QJ	0.000703
PCB 50 (BZ)	23:17	5375	814	0.927		0.038848		0.003885	QCJ	0.000628
PCB 53 (BZ)		5375		0.927		0.038848		0.003885	QC50J	0.000628
PCB 45 (BZ)	24:02	3257	802	0.857		0.025452		0.002545	QCJ	0.000679
PCB 51 (BZ)		3257		0.857		0.025452		0.002545	QC45J	0.000679
PCB 46 (BZ)				0.706				ND		0.000824
PCB 52 (BZ)	25:39	4331	1093	0.926		0.031330		0.003133	J	0.000628
PCB 73 (BZ)	25:48	2764	503	0.957		0.019336		0.001934	QC43J	0.000608
PCB 43 (BZ)	25:54	2764	550	0.957		0.019336		0.001934	QCJ	0.000608
PCB 69 (BZ)	26:01	1048	338	1.180		0.005948		0.000595	QJ	0.000493
PCB 49 (BZ)	26:10	4292	783	1.005		0.028595		0.002860	J	0.000579
PCB 48 (BZ)				0.886				ND		0.000657
PCB 65 (BZ)		9346		1.024		0.061148		0.006115	QC44J	0.000568
PCB 47 (BZ)	26:43	9346	1507	1.024		0.061148		0.006115	QC44J	0.000568
PCB 44 (BZ)		9346		1.024		0.061148		0.006115	QCJ	0.000568
PCB 62 (BZ)	26:57	6832	685	1.297		0.035296		0.003530	QC59J	0.000449
PCB 75 (BZ)		6832		1.297		0.035296		0.003530	QC59J	0.000449
PCB 59 (BZ)		6832		1.297		0.035296		0.003530	QCJ	0.000449
PCB 42 (BZ)				0.860				ND		0.000677
PCB 41 (BZ)				0.723				ND		0.000804
PCB 71 (BZ)	27:45	4832	709	0.953		0.033952		0.003395	C40J	0.000610
PCB 40 (BZ)		4832		0.953		0.033952		0.003395	CJ	0.000610
PCB 64 (BZ)	27:58	3230	824	1.313		0.016477		0.001648	J	0.000443
PCB 72 (BZ)				1.257				ND		0.000463
PCB 68 (BZ)	28:57	1457	290	1.327		0.007355		0.000736	QJ	0.000438
PCB 57 (BZ)				1.194				ND		0.000487
PCB 58 (BZ)				1.260				ND		0.000462
PCB 67 (BZ)				1.286				ND		0.000452
PCB 63 (BZ)				1.339				ND		0.000435
PCB 61 (BZ)				1.190				ND		0.000489
PCB 70 (BZ)		8355		1.317		0.042489		0.004249	CJ	0.000442
PCB 76 (BZ)		8355		1.317		0.042489		0.004249	C70J	0.000442
PCB 74 (BZ)	30:30	8355	1997	1.317		0.042489		0.004249	C70J	0.000442
PCB 66 (BZ)	30:49	2496	660	1.289		0.012966		0.001297	QJ	0.000451
PCB 55 (BZ)				1.161				ND		0.000501
PCB 56 (BZ)				1.231				ND		0.000473
PCB 60 (BZ)				1.191				ND		0.000489
PCB 80 (BZ)				1.416				ND		0.000411
PCB 79 (BZ)				1.371				ND		0.000425

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PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	14:21	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 78 (BZ)				1.181				ND		0.000493
PCB 81 (BZ)				1.317				ND		0.000443
PCB 77 (BZ)				1.200				ND		0.000484
Total Pentachlorobiphenyl		13969	2414			0.101911		0.010191	QJ	0.0164
13C12-PCB 104	26:34	1265236	271142	1.260	10.00	8.676266	86.76	0.867627		0.00120
13C12-PCB 95				0.741	5.000			ND		0.00176
13C12-PCB 101	32:26	1157586	233565	1.000	10.00	10.000000	100.00	1.000000		0.00151
13C12-PCB 111	35:02	1343794	266190	1.229	10.00	9.445491	94.45	0.944549		0.00123
13C12-PCB 123	37:06	1754339	320800	0.955	10.00	9.076004	90.76	0.907600		0.000986
13C12-PCB 118	37:25	1898292	358894	0.988	10.00	9.487745	94.88	0.948774		0.000952
13C12-PCB 114	37:58	1767061	330741	0.971	10.00	8.988885	89.89	0.898889		0.000969
13C12-PCB 105	38:42	1724886	320634	0.941	10.00	9.050097	90.50	0.905010		0.001000
13C12-PCB 127	40:02	2025051	374624	1.000	10.00	10.000000	100.00	1.000000		0.000941
13C12-PCB 126	41:46	1699272	296273	0.978	10.00	8.581540	85.82	0.858154		0.000962
PCB 104 (BZ)	26:36	1530	411	1.149		0.010520		0.001052	QJ	0.000433
PCB 96 (BZ)				1.014				ND		0.000491
PCB 103 (BZ)				0.866				ND		0.000575
PCB 94 (BZ)				0.703				ND		0.000708
PCB 95 (BZ)	29:40	2623	600	0.859		0.024142		0.002414	CJ	0.000580
PCB 100 (BZ)		2623		0.859		0.024142		0.002414	C95J	0.000580
PCB 93 (BZ)				0.701				ND		0.000710
PCB 102 (BZ)				0.822				ND	C98	0.000606
PCB 98 (BZ)				0.822				ND	C	0.000606
PCB 88 (BZ)				0.723				ND		0.000689
PCB 91 (BZ)				0.864				ND		0.000576
PCB 84 (BZ)				0.679				ND		0.000733
PCB 89 (BZ)				0.717				ND		0.000694
PCB 121 (BZ)	31:24	1079	279	1.105		0.007717		0.000772	J	0.000451
PCB 92 (BZ)				0.772				ND		0.000645
PCB 113 (BZ)	32:27	3713	742	0.990		0.029655		0.002965	QC90J	0.000503
PCB 90 (BZ)		3713		0.990		0.029655		0.002965	QCJ	0.000503
PCB 101 (BZ)		3713		0.990		0.029655		0.002965	QC90J	0.000503
PCB 83 (BZ)				0.777				ND	C	0.000641
PCB 99 (BZ)				0.777				ND	C83	0.000641
PCB 112 (BZ)				1.079				ND		0.000461
PCB 109 (BZ)/108 (IUPAC)				0.967				ND	C86	0.000515
PCB 86 (BZ)				0.967				ND	C	0.000515
PCB 119 (BZ)				0.967				ND	C86	0.000515
PCB 97 (BZ)				0.967				ND	C86	0.000515
PCB 125 (BZ)				0.967				ND	C86	0.000515
PCB 87 (BZ)				0.967				ND	C86	0.000515
PCB 117 (BZ)				0.979				ND	C85	0.000509
PCB 116 (BZ)				0.979				ND	C85	0.000509
PCB 85 (BZ)				0.979				ND	C	0.000509
PCB 110 (BZ)	34:30	2673	540	1.139		0.018553		0.001855	CJ	0.000437
PCB 115 (BZ)		2673		1.139		0.018553		0.001855	C110J	0.000437
PCB 82 (BZ)				0.605				ND		0.000823
PCB 111 (BZ)				1.129				ND		0.000441
PCB 120 (BZ)				1.192				ND		0.000418

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PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	14:21	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 124 (BZ)				1.123				ND	C108	0.000369
PCB 108 (BZ)/107 (IUPAC)				1.123				ND	C	0.000369
PCB 107 (BZ)/109 (IUPAC)				1.074				ND		0.000386
PCB 123 (BZ)				1.136				ND		0.000370
PCB 106 (BZ)				1.046				ND		0.000397
PCB 118 (BZ)	37:24	2351	584	1.094		0.011324		0.001132	QJ	0.000344
PCB 122 (BZ)				1.047				ND		0.000396
PCB 114 (BZ)				1.196				ND		0.000341
PCB 105 (BZ)				1.218				ND		0.000346
PCB 127 (BZ)				1.130				ND		0.000367
PCB 126 (BZ)				1.111				ND		0.000410
Total Hexachlorobiphenyl		11168	1544			0.088562		0.008856	JQ	0.0207
13C12-PCB 155	32:04	1238890	257627	1.178	10.00	9.085872	90.86	0.908587		0.00114
13C12-PCB 153				0.833	5.000			ND		0.00182
13C12-PCB 138	40:31	1372093	268581	1.000	10.00	10.000000	100.00	1.000000		0.00117
13C12-PCB 167	43:26	1597391	301791	1.237	10.00	9.414223	94.14	0.941422		0.000948
13C12-PCB 156	44:43	3152342	311309	1.229	20.00	18.696708	93.48	1.869671		0.000954
13C12-PCB 157								ND		0.000000
13C12-PCB 169	47:53	1183311	218060	1.188	10.00	7.261958	72.62	0.726196		0.000988
PCB 155 (BZ)				1.117				ND		0.000443
PCB 152 (BZ)				1.023				ND		0.000484
PCB 150 (BZ)				1.032				ND		0.000479
PCB 136 (BZ)	33:04	675	224	0.967		0.005637		0.000564	J	0.000512
PCB 145 (BZ)				1.021				ND		0.000485
PCB 148 (BZ)				0.749				ND		0.000661
PCB 151 (BZ)	35:21	1729	276	0.781		0.017884		0.001788	QC135J	0.000634
PCB 135 (BZ)		1729		0.781		0.017884		0.001788	QCJ	0.000634
PCB 154 (BZ)		1729		0.781		0.017884		0.001788	QC135J	0.000634
PCB 144 (BZ)				0.759				ND		0.000652
PCB 147 (BZ)	36:15	3125	702	0.862		0.024448		0.002445	CJ	0.000712
PCB 149 (BZ)		3125		0.862		0.024448		0.002445	C147J	0.000712
PCB 134 (BZ)				0.711				ND	C	0.000862
PCB 143 (BZ)				0.711				ND	C134	0.000862
PCB 139 (BZ)				0.856				ND	C	0.000717
PCB 140 (BZ)				0.856				ND	C139	0.000717
PCB 131 (BZ)				0.713				ND		0.000860
PCB 142 (BZ)				0.735				ND		0.000835
PCB 132 (BZ)	37:41	912	238	0.710		0.008660		0.000866	QJ	0.000864
PCB 133 (BZ)				0.768				ND		0.000799
PCB 165 (BZ)				0.993				ND		0.000618
PCB 146 (BZ)				0.874				ND		0.000702
PCB 161 (BZ)				1.090				ND		0.000563
PCB 153 (BZ)	39:12	2621	573	1.068		0.016537		0.001654	QCJ	0.000574
PCB 168 (BZ)		2621		1.068		0.016537		0.001654	QC153J	0.000574
PCB 141 (BZ)				0.756				ND		0.000812
PCB 130 (BZ)				0.708				ND		0.000866
PCB 137 (BZ)				0.835				ND		0.000735
PCB 164 (BZ)				1.033				ND		0.000594
PCB 138 (BZ)	40:33	2106	508	0.922		0.015396		0.001540	QC129J	0.000665

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PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	14:21	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 163 (BZ)		2106		0.922		0.015396		0.001540	QC129J	0.000665
PCB 129 (BZ)		2106		0.922		0.015396		0.001540	QCJ	0.000665
PCB 160 (BZ)		2106		0.922		0.015396		0.001540	QC129J	0.000665
PCB 158 (BZ)				1.191				ND		0.000515
PCB 166 (BZ)				1.102				ND		0.000557
PCB 128 (BZ)				0.769				ND		0.000798
PCB 159 (BZ)				1.079				ND		0.000569
PCB 162 (BZ)				1.079				ND		0.000569
PCB 167 (BZ)				1.150				ND		0.000367
PCB 156 (BZ)				1.151				ND	C	0.000712
PCB 157 (BZ)				1.151				ND	C156	0.000712
PCB 169 (BZ)				1.337				ND		0.000437
Total Heptachlorobiphenyl		2307	503			0.016894		0.001689	QJ	0.00872
13C12-PCB 188	37:47	1496688	314062	1.238	10.00	9.747634	97.48	0.974763		0.00101
13C12-PCB 178	40:52	961363	195803	0.863	10.00	8.981872	89.82	0.898187		0.00145
13C12-PCB 180	45:56	1240119	246441	1.000	10.00	10.000000	100.00	1.000000		0.00125
13C12-PCB 170	47:17	961507	177745	0.813	10.00	9.531139	95.31	0.953114		0.00153
13C12-PCB 189	50:19	1646178	315984	1.620	10.00	9.632322	96.32	0.963232		0.000917
PCB 188 (BZ)				1.071				ND		0.000297
PCB 179 (BZ)	38:18	1617	312	1.200		0.010968		0.001097	QJ	0.000339
PCB 184 (BZ)				1.178				ND		0.000345
PCB 176 (BZ)				1.252				ND		0.000325
PCB 186 (BZ)				1.214				ND		0.000335
PCB 178 (BZ)				0.889				ND		0.000457
PCB 175 (BZ)				0.920				ND		0.000442
PCB 187 (BZ)				1.009				ND		0.000403
PCB 182 (BZ)				0.972				ND		0.000418
PCB 183 (BZ)	42:24	689	191	0.946		0.005926		0.000593	QJ	0.000430
PCB 185 (BZ)				0.919				ND		0.000443
PCB 174 (BZ)				0.924				ND		0.000440
PCB 177 (BZ)				0.880				ND		0.000462
PCB 181 (BZ)				0.975				ND		0.000417
PCB 171 (BZ)				0.835				ND	C	0.000487
PCB 173 (BZ)				0.835				ND	C171	0.000487
PCB 172 (BZ)				0.838				ND		0.000485
PCB 192 (BZ)				1.147				ND		0.000354
PCB 193 (BZ)				1.134				ND	C180	0.000359
PCB 180 (BZ)				1.134				ND	C	0.000359
PCB 191 (BZ)				1.228				ND		0.000331
PCB 170 (BZ)				1.058				ND		0.000532
PCB 190 (BZ)				1.254				ND		0.000324
PCB 189 (BZ)				1.097				ND		0.000288
Total Octachlorobiphenyl								ND		0.00379
13C12-PCB 202	43:09	1247971	246776	0.994	10.00	10.126257	101.26	1.012626		0.000847
13C12-PCB 194	52:22	1054650	206950	1.000	10.00	10.000000	100.00	1.000000		0.00100
13C12-PCB 205	52:50	1384388	261303	1.407	10.00	9.331090	93.31	0.933109		0.000713
PCB 202 (BZ)				0.993				ND		0.000316
PCB 200 (BZ)/201 (IUPAC)				1.087				ND		0.000289
PCB 204 (BZ)				1.033				ND		0.000304

STL - Knoxville

IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	14:21	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 197 (BZ)				1.061				ND		0.000296
PCB 199 (BZ)/200 (IUPAC)				1.031				ND		0.000305
PCB 198 (BZ)				0.761				ND	C	0.000413
PCB 201 (BZ)/199 (IUPAC)				0.761				ND	C198	0.000413
PCB 196 (BZ)				0.752				ND		0.000418
PCB 203 (BZ)				0.856				ND		0.000367
PCB 195 (BZ)				0.723				ND		0.000410
PCB 194 (BZ)				0.795				ND		0.000373
PCB 205 (BZ)				0.984				ND		0.000301
Total Nonachlorobiphenyl								ND		0.000953
13C12-PCB 208	49:44	1269571	246151	1.161	10.00	10.367852	103.68	1.036785		0.000843
13C12-PCB 206	54:30	850483	158611	0.823	10.00	9.802449	98.02	0.980245		0.00119
PCB 208 (BZ)				1.026				ND		0.000277
PCB 207 (BZ)				1.264				ND		0.000274
PCB 206 (BZ)				1.097				ND		0.000402
13C12-PCB 209	56:04	1025358	183594	0.930	10.00	10.452928	104.53	1.045293		0.000935
PCB 209 (BZ)				1.006				ND		0.000352

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IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 14:21	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	80	78	32	31	1.03 *	/	
	PCB 1 (BZ)	12:19	12:22	-3	13450	4189	5852	1719	3.21	ABB/ABB	
	PCB 2 (BZ)	14:21	14:25	-4	9298	2619	3103	857	3.55	ABB/MBB	
	PCB 3 (BZ)	14:34	14:35	-1	7907	2144	2509	621	3.69 *	ABB/MBB	R
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	200	278	80	111	0.72 *	/	
	13C12-PCB 1	12:17	12:21	-4	1495132	468152	527697	166738	3.19	AVV/AVV	
	13C12-PCB 3	14:33	14:34	-1	1519313	469135	435085	133557	3.24	ABV/ABV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	138	395	55	158	0.35 *	/	
	PCB 4 (BZ)	14:51	14:52	-1	5081	4424	1503	1354	1.15 *	ABB/MBB	R
	PCB 10 (BZ)	14:59	15:03	-4	5125	7245	1816	1563	0.71 *	ABB/ABB	R
	PCB 9 (BZ)	16:48	16:49	-1	5939	9402	1893	1695	0.63 *	ABV/ABV	R
	PCB 7 (BZ)	16:56	16:58	-2	4943	3894	1196	936	1.27 *	AVB/AVB	RD
	PCB 6 (BZ)	17:14	17:15	-1	5028	10594	1200	1416	0.47 *	ABB/ABB	R
	PCB 5 (BZ)	17:33	17:34	-1	4161	5597	1077	1265	0.74 *	ABV/ABV	R
	PCB 8 (BZ)	17:41	17:42	-1	8551	8838	2031	1941	0.97 *	AVB/AVB	R
	PCB 14 (BZ)	19:15	19:16	-1	4940	6442	1286	1449	0.77 *	MVV/MVV	RD
	PCB 11 (BZ)	20:11	20:11	0	9527	9768	2360	1862	0.98 *	MBV/MVV	R
	PCB 13 (BZ)	20:30	20:27	3	5814	9462	1030	1210	0.61 *	MVV/MVB	RT
	PCB 15 (BZ)	20:50	20:48	2	2806	9171	653	1211	0.31 *	MVV/MVV	R
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	178	153	71	61	1.16 *	/	
	13C12-PCB 4	14:50	14:51	-1	644704	393507	207535	121313	1.64	ABV/ABV	
	13C12-PCB 9	16:46	16:47	-1	1409910	873948	362588	223971	1.61	ABV/ABV	
	13C12-PCB 15	20:51	20:48	3	1103068	678725	225532	136062	1.63	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	108	75	43	30	1.43 *	/	
	PCB 19 (BZ)	18:03	18:03	0	1416	1167	337	410	1.21 *	ABB/ABB	R
	PCB 30 (BZ)	19:43	19:45	-2	2004	1854	606	535	1.08	MVV/ABB	D
	PCB 18 (BZ)	19:53	19:52	1	2983	3524	1121	942	0.85 *	MBB/ABB	R
	PCB 17 (BZ)	20:18	20:17	1	1929	1864	677	541	1.03	ABB/ABB	
	PCB 27 (BZ)	20:34	20:32	2	1923	1692	645	543	1.14	ABB/ABV	
	PCB 16 (BZ)	20:50	20:48	2	1488	1285	377	447	1.16	ABB/ABB	
	PCB 32 (BZ)	21:19	21:18	1	1747	2337	501	508	0.75 *	ABB/ABB	R
	PCB 34 (BZ)	22:30	22:31	-1	2231	1957	552	568	1.14	ABV/ABV	D
	PCB 23 (BZ)	22:38	22:38	0	1451	1917	469	570	0.76 *	AVB/AVB	RD
	PCB 29 (BZ)	22:58	22:58	0	5198	4396	950	724	1.18	ABB/ABB	
	PCB 25 (BZ)	23:12	23:11	1	2371	1690	531	692	1.40 *		RM
	PCB 31 (BZ)	23:34	23:32	2	5507	5085	1297	1310	1.08	ABB/ABB	
	PCB 28 (BZ)	23:51	23:48	3	7101	6794	1312	1107	1.05	ABV/ABV	
	PCB 33 (BZ)	24:06	24:06	0	5865	5850	1082	785	1.00	AVB/AVB	
	PCB 22 (BZ)	24:33	24:30	3	2041	2287	561	560	0.89	ABB/ABB	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comak limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 14:21	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	PCB 36 (BZ)	26:00	26:01	-1	1459	1040	299	246	1.40 *	ABB/MBB	RD
	PCB 39 (BZ)	26:25	26:22	3	1183	1998	280	473	0.59 *	ABB/ABB	R
	PCB 37 (BZ)	27:58	27:53	5	1881	1665	453	372	1.13	ABB/ABB	M
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	385	308	154	123	1.25 *	/	
	13C12-PCB 19	18:02	18:01	1	407784	365963	106117	93616	1.11	ABV/AVV	
	13C12-PCB 32	21:16	21:16	0	891283	812449	207150	190907	1.10	ABV/ABV	
	13C12-PCB 31	23:31	23:30	1	1407120	1306667	303836	286505	1.08	ABV/ABV	
	13C12-PCB 28	23:48	23:47	1	1142713	1063670	233578	218861	1.07	AVV/AVV	
	13C12-PCB 37	27:57	27:51	6	1002883	928976	186769	170077	1.08	ABB/ABB	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	75	78	30	31	0.97 *	/	
	PCB 54 (BZ)	21:12	21:10	2	874	916	330	161	0.95 *	ABB/ABB	R
	PCB 50 (BZ)	23:17	23:16	1	2988	3037	383	460	0.98 *	ABB/ABB	R
	PCB 45 (BZ)	24:02	23:59	3	1417	2294	349	562	0.62 *	ABB/ABB	R
	PCB 52 (BZ)	25:39	25:40	-1	1795	2536	434	659	0.71	MBB/MBV	D
	PCB 73 (BZ)	25:48	25:47	1	662	1067	219	374	0.62 *	MVV/MVV	RD
	PCB 43 (BZ)	25:54	25:53	1	555	687	303	247	0.81	MVV/MVV	D
	PCB 69 (BZ)	26:01	26:02	-1	456	1018	147	352	0.45 *	MVV/ABV	RD
	PCB 49 (BZ)	26:10	26:09	1	1890	2402	423	360	0.79	MBB/AVB	
	PCB 47 (BZ)	26:43	26:40	3	3845	5501	615	892	0.70	ABB/ABB	T
	PCB 62 (BZ)	26:57	26:54	3	3471	3860	423	387	0.90 *	ABB/ABB	RT
	PCB 71 (BZ)	27:45	27:42	3	2055	2777	337	372	0.74	ABB/ABB	
	PCB 64 (BZ)	27:58	27:54	4	1386	1844	273	551	0.75	ABB/ABB	D
	PCB 68 (BZ)	28:57	28:57	0	634	1151	126	356	0.55 *	ABB/MVV	R
	PCB 74 (BZ)	30:30	30:28	2	3769	4586	918	1079	0.82	ABB/ABB	M
	PCB 66 (BZ)	30:49	30:46	3	1429	1410	369	373	1.01 *	MVV/ABB	R
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	130	120	52	48	1.08 *	/	
	13C12-PCB 54	21:11	21:09	2	334179	419482	78129	100986	0.80	ABV/ABV	
	13C12-PCB 52	25:39	25:39	0	623708	780269	138302	169738	0.80	ABV/ABV	
	13C12-PCB 81	34:39	34:34	5	658059	822292	117144	144309	0.80	ABV/ABV	M
	13C12-PCB 77	35:15	35:09	6	665793	839815	115762	146920	0.79	ABV/ABV	M
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	75	60	30	24	1.25 *	/	
	PCB 104 (BZ)	26:36	26:36	0	930	739	250	201	1.26 *	ABB/ABB	R
	PCB 95 (BZ)	29:40	29:38	2	1599	1024	319	281	1.56	ABB/ABB	
	PCB 121 (BZ)	31:24	31:25	-1	672	407	156	123	1.65	ABB/ABB	D
	PCB 113 (BZ)	32:27	32:25	2	2257	1916	451	375	1.18 *	ABB/ABB	R
	PCB 110 (BZ)	34:30	34:29	1	1533	1140	322	218	1.34	ABB/ABB	
	PCB 118 (BZ)	37:24	37:25	-1	2045	922	455	229	2.22 *	ABB/ABB	R
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	198	155	79	62	1.27 *	/	

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

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Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	13C12-PCB 104	26:34	26:34	0	779945	485291	165685	105457	1.61	ABV/ABV	
	13C12-PCB 101	32:26	32:25	1	716397	441189	143935	89630	1.62	ABV/ABV	
	13C12-PCB 111	35:02	35:02	0	828708	515086	161825	104365	1.61	ABV/ABV	
	13C12-PCB 123	37:06	37:04	2	1093516	660823	200327	120473	1.65	ABV/ABV	
	13C12-PCB 118	37:25	37:23	2	1172854	725438	223088	135806	1.62	AVV/AVV	
	13C12-PCB 114	37:58	37:55	3	1089197	677864	205506	125235	1.61	AVV/AVV	
	13C12-PCB 105	38:42	38:38	4	1065985	658901	199155	121479	1.62	ABB/ABB	M
	13C12-PCB 127	40:02	40:00	2	1247839	777212	229936	144688	1.61	AVV/ABV	
	13C12-PCB 126	41:46	41:40	6	1046513	652759	183161	113112	1.60	ABV/ABV	M
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	65	63	26	25	1.04 *	/	
	PCB 136 (BZ)	33:04	33:04	0	347	328	128	96	1.06	ABB/ABB	
	PCB 151 (BZ)	35:21	35:20	1	1506	772	184	123	1.95 *	ABB/MVV	RT
	PCB 147 (BZ)	36:15	36:15	0	1788	1337	354	348	1.34	ABB/ABB	
	PCB 132 (BZ)	37:41	37:37	4	505	591	132	350	0.85 *	MVV/MVV	RM
	PCB 153 (BZ)	39:12	39:13	-1	2075	1170	498	256	1.77 *	ABB/ABB	R
	PCB 138 (BZ)	40:33	40:31	2	1392	940	499	227	1.48 *	ABB/ABB	R
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	165	150	66	60	1.10	/	
	13C12-PCB 155	32:04	32:06	-2	694765	544125	145267	112360	1.28	ABV/ABV	
	13C12-PCB 138	40:31	40:29	2	774569	597524	155142	113439	1.30	ABV/ABV	
	13C12-PCB 167	43:26	43:25	1	894777	702614	167861	133930	1.27	ABV/ABV	
	13C12-PCB 156	44:43	44:35	8	1769871	1382471	175166	136143	1.28	AVV/AVV	M
	13C12-PCB 169	47:53	47:50	3	662644	520667	118617	99443	1.27	ABV/ABV	
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	53	48	21	19	1.11	/	
	PCB 179 (BZ)	38:18	38:18	0	1069	789	292	152	1.35 *	ABB/ABB	R
	PCB 183 (BZ)	42:24	42:24	0	353	560	98	163	0.63 *	MVV/MVV	R
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	153	155	61	62	0.98	/	
	13C12-PCB 188	37:47	37:49	-2	768920	727768	159927	154135	1.06	ABV/ABV	
	13C12-PCB 178	40:52	40:53	-1	484568	476795	99955	95848	1.02	ABV/ABV	
	13C12-PCB 180	45:56	45:56	0	634944	605175	125101	121340	1.05	ABV/ABV	
	13C12-PCB 170	47:17	47:15	2	492365	469142	89482	88263	1.05	ABV/ABV	
	13C12-PCB 189	50:19	50:17	2	849963	796215	164089	151895	1.07	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	33	45	13	18	0.72 *	/	
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	93	115	37	46	0.80	/	
	13C12-PCB 202	43:09	43:09	0	597020	650951	117663	129113	0.92	ABV/ABV	
	13C12-PCB 194	52:22	52:22	0	497823	556827	98645	108305	0.89	ABV/ABV	
	13C12-PCB 205	52:50	52:49	1	660586	723802	125668	135635	0.91	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AA	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alab.d	Prep Date	10/05/07	SDG No	
Analysis ID	99729	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 14:21	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

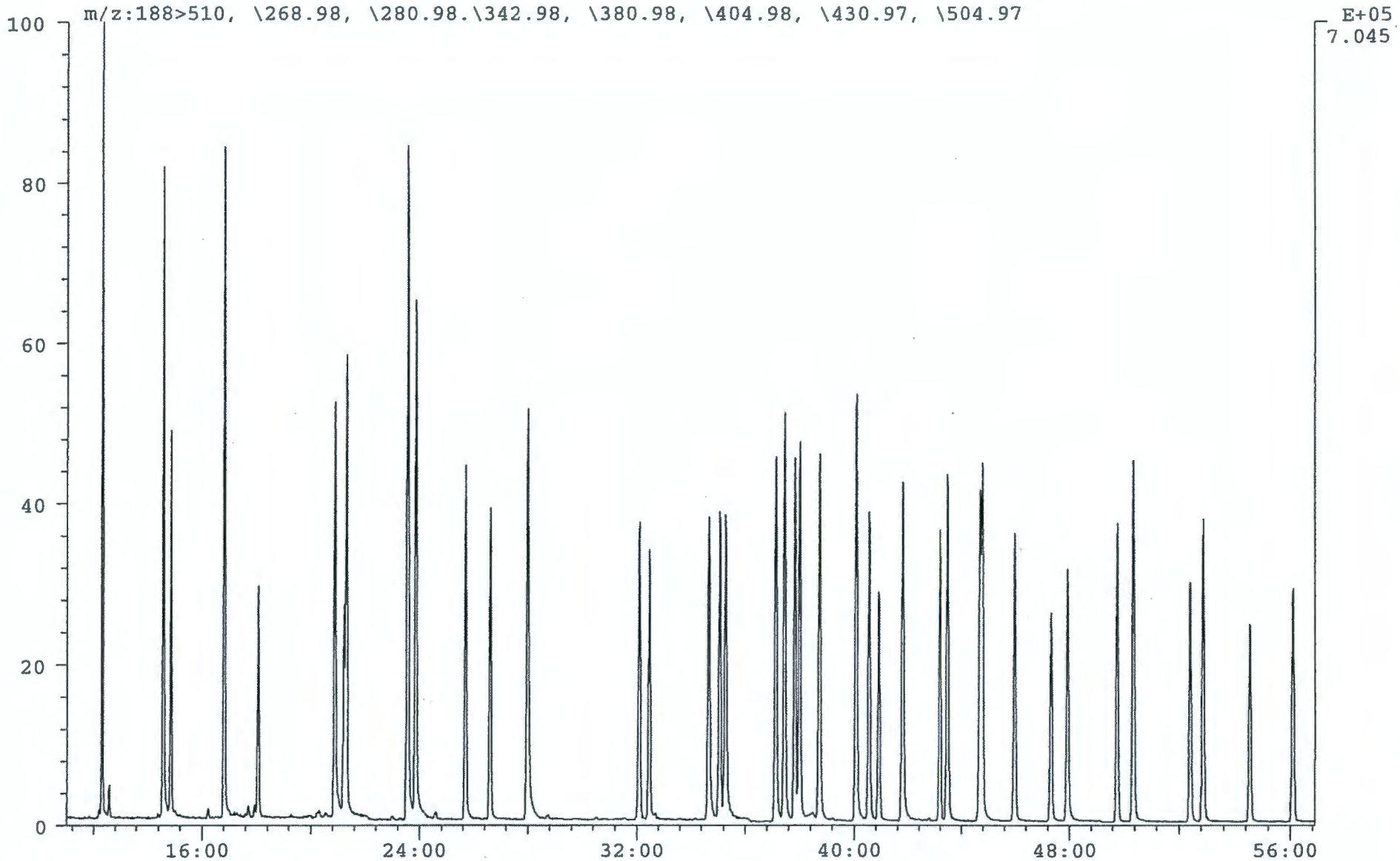
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89	
	Noise	00:00	00:00	0	28	43	11	17	0.65	/
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89	
	Noise	00:00	00:00	0	100	103	40	41	0.98 *	/
	13C12-PCB 208	49:44	49:46	-2	562793	706778	107199	138952	0.80	ABV/ABV
	13C12-PCB 206	54:30	54:31	-1	373433	477050	68839	89772	0.78	ABV/ABV
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79	
	Noise	00:00	00:00	0	40	25	16	10	1.60 *	/
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79	
	Noise	00:00	00:00	0	95	85	38	34	1.12 *	/
	13C12-PCB 209	56:04	56:06	-2	420197	605161	74509	109085	0.69	ABV/ABV

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside cemax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

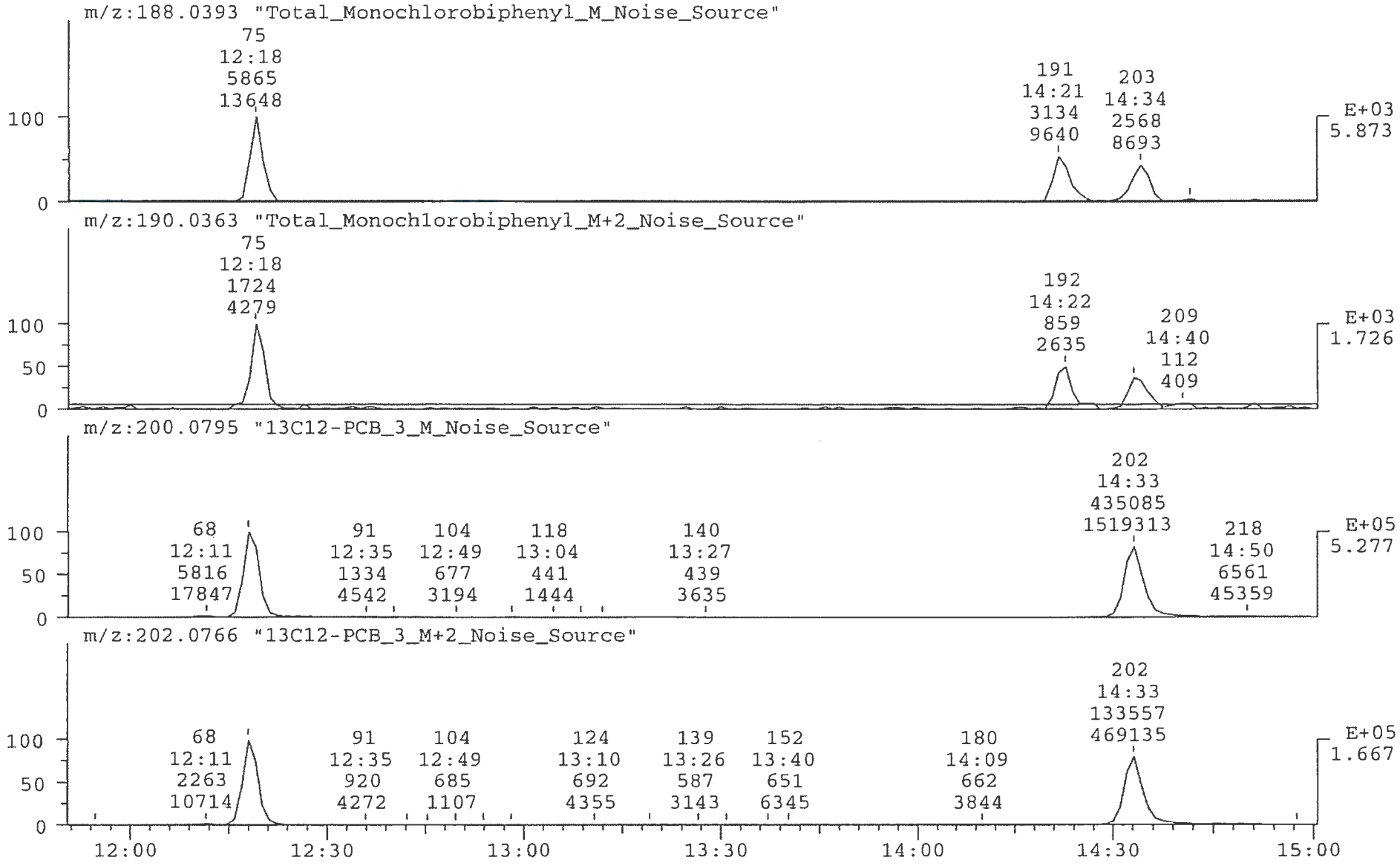
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  11:00.7        1
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   2 > 2595             Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```

Int DCG 10-12-07
calc DCG 10-12-07
QC BFW 10/15/07
Aerobic 10-16-07

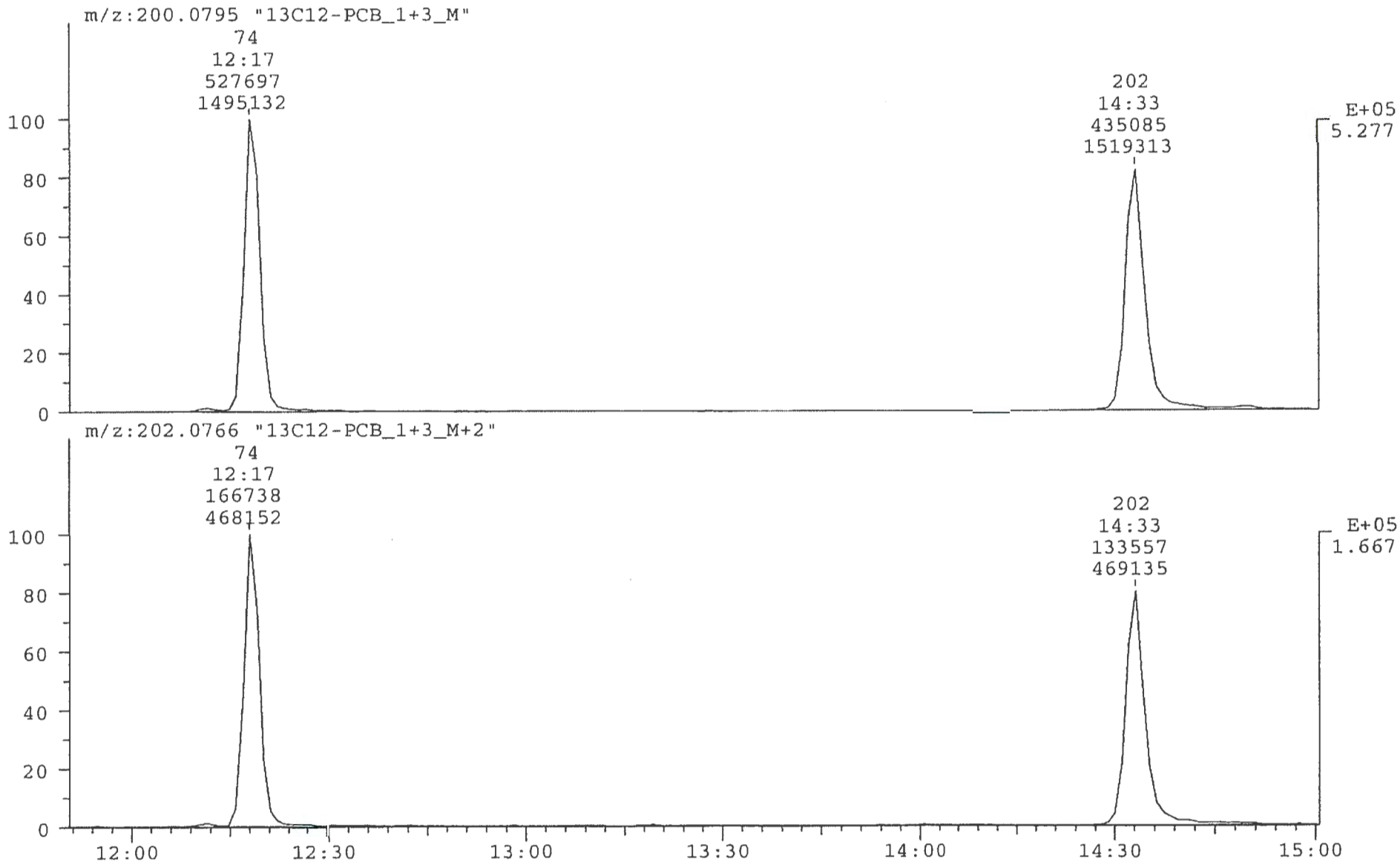


2940

```
CHRO:  apj8alab                                12-Oct-07   Elapse:  13:25.5      138
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   48 > 228             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

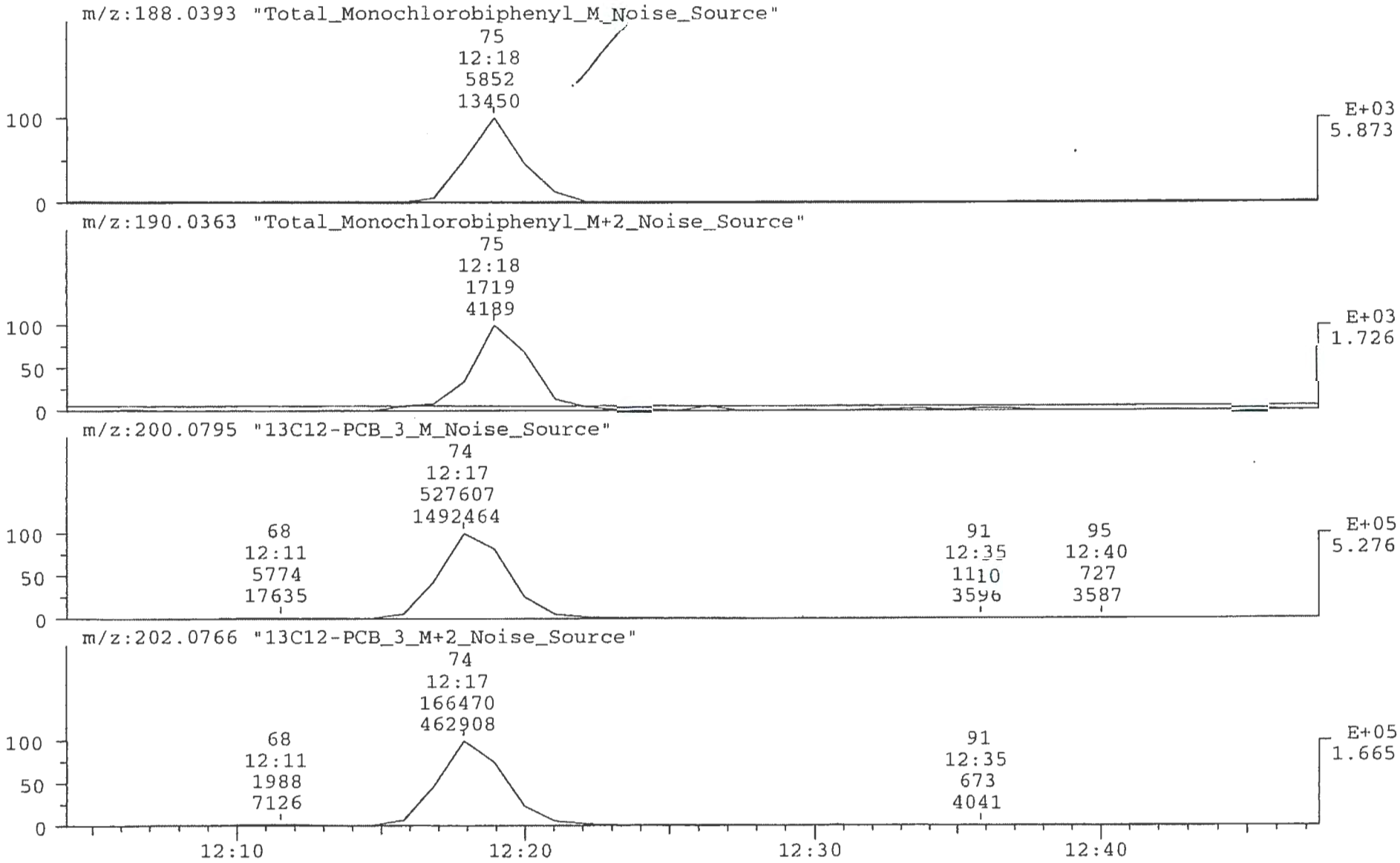


```
CHRO:  apj8alab                                12-Oct-07  Elapse:  13:25.5      138
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                 Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   48 > 228            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

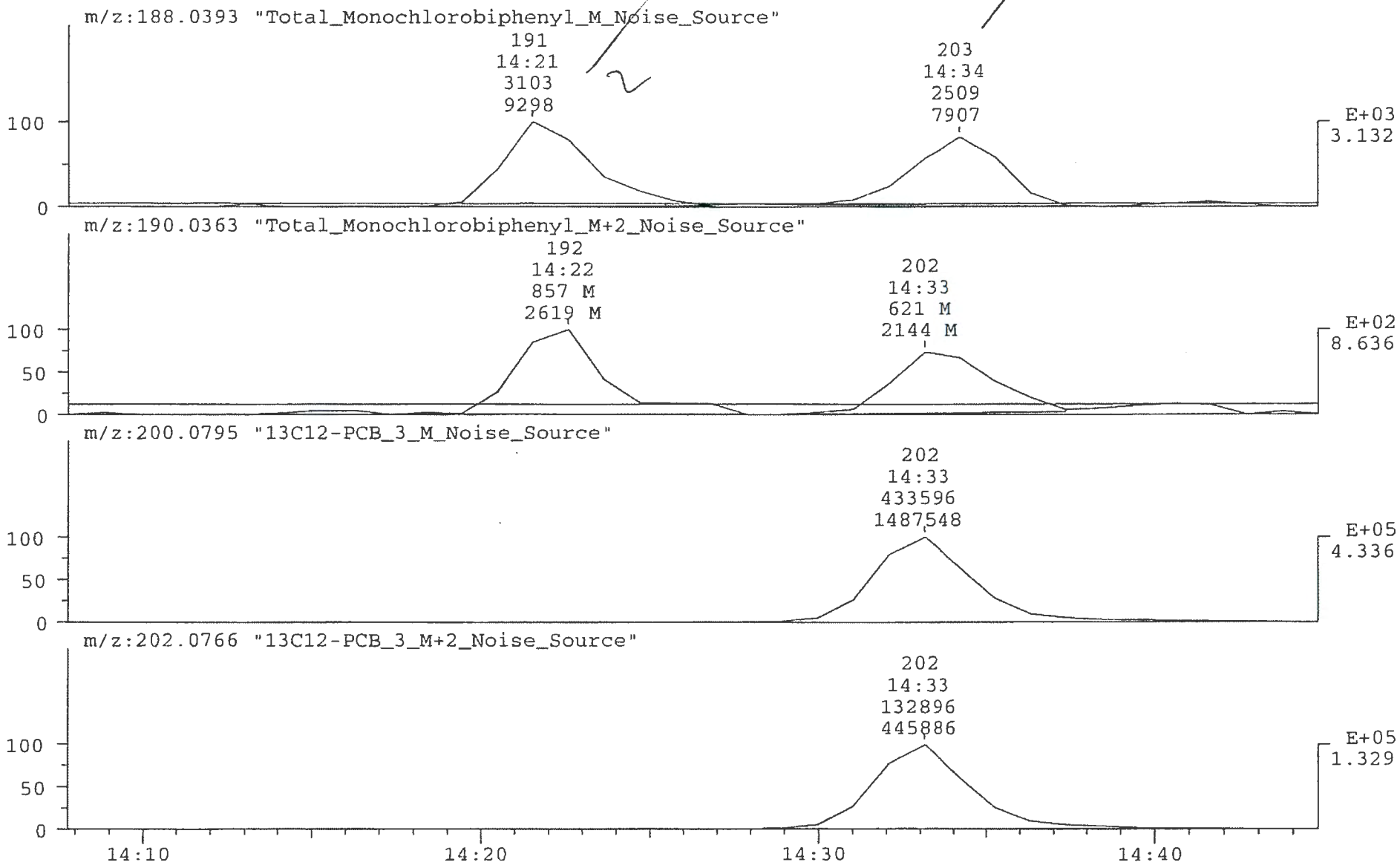


2942

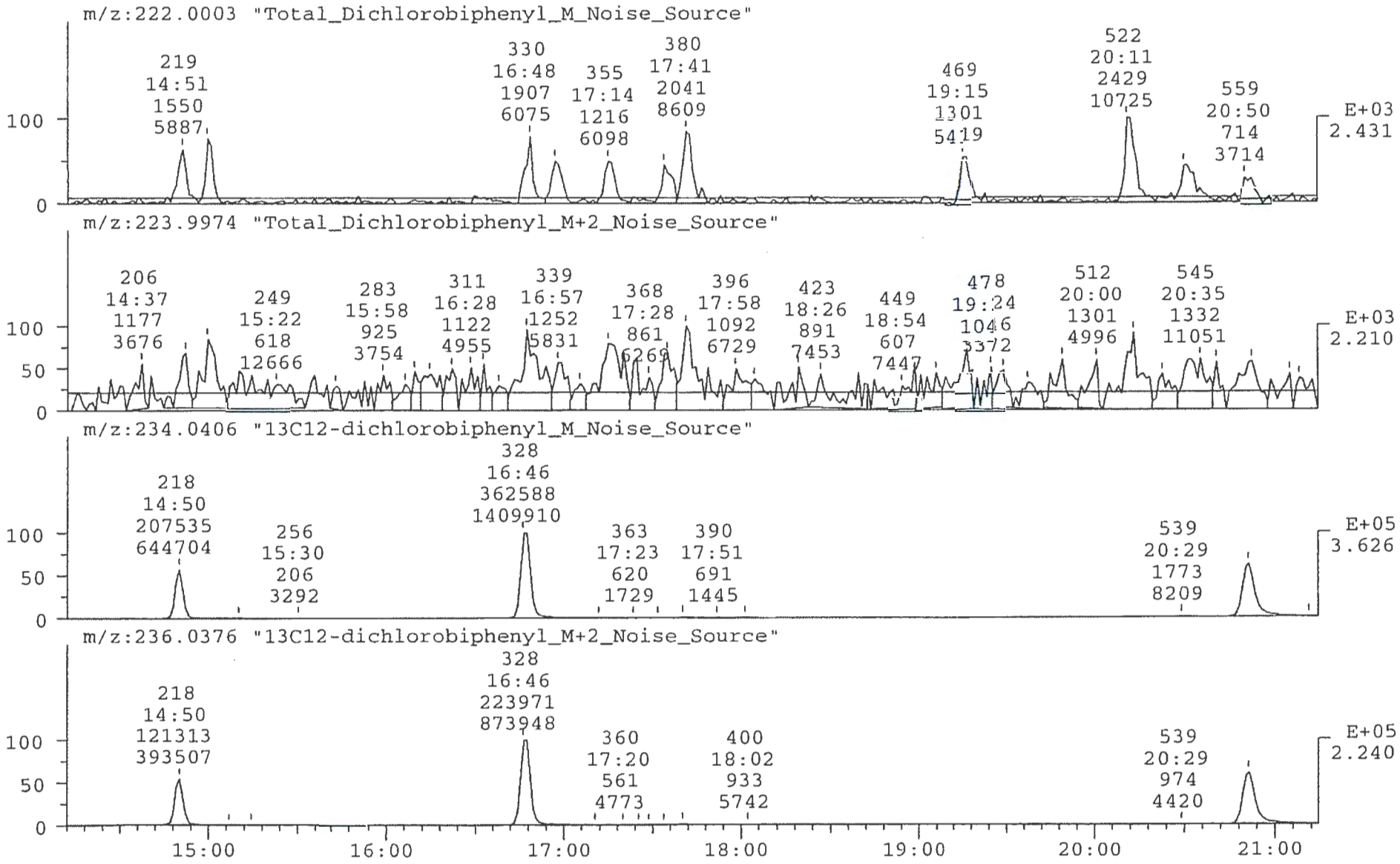
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  56:12      2556
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   61 > 102             Masses:  181 > 510
Area:  5, 1.00, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



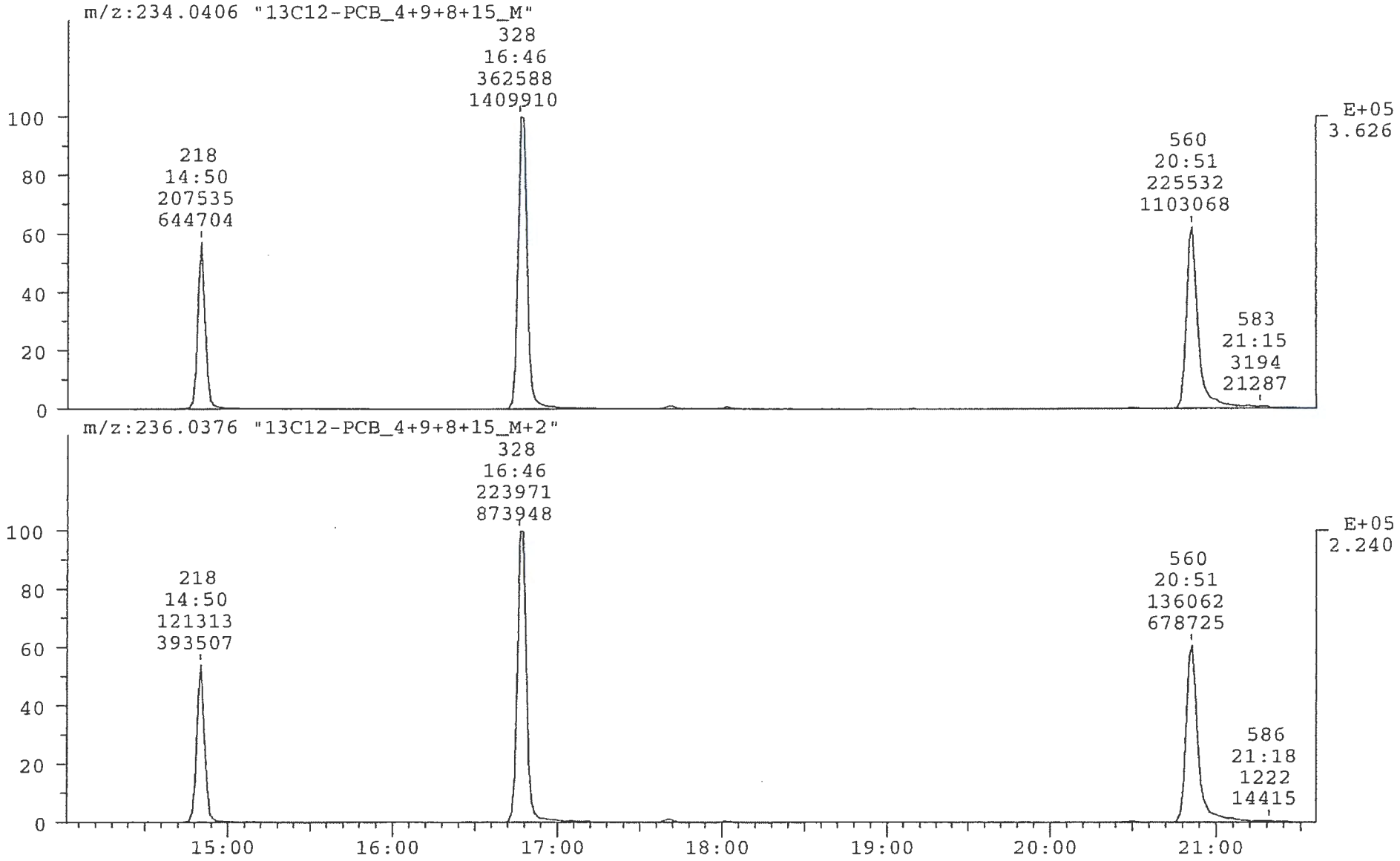
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  56:12      2556
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   178 > 213            Masses:  181 > 510
Area:  5, 2.00, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



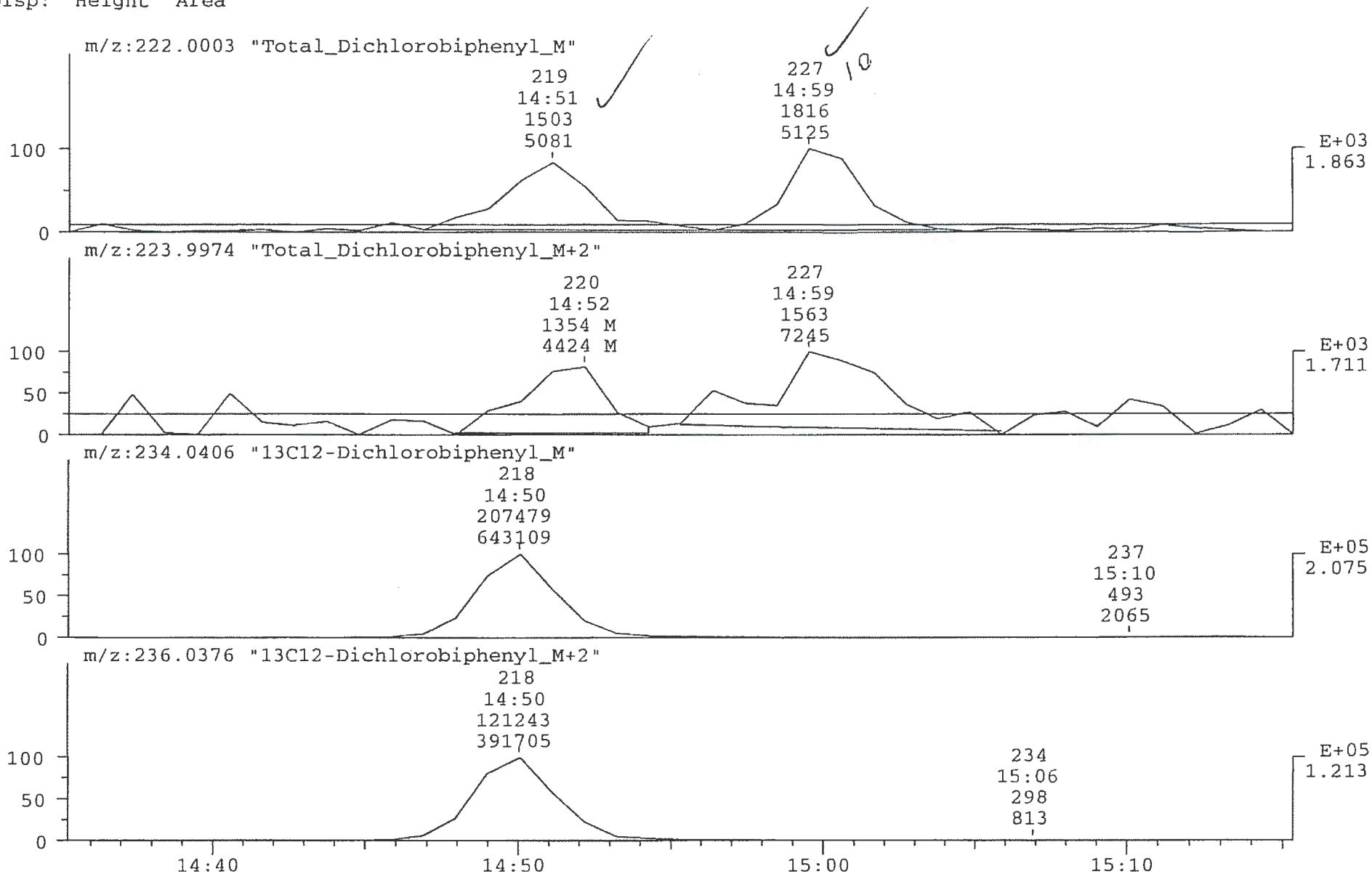
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  17:43.3      382
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   182 > 582            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alab                                12-Oct-07   Elapse:  17:43.3      382
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   172 > 602            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

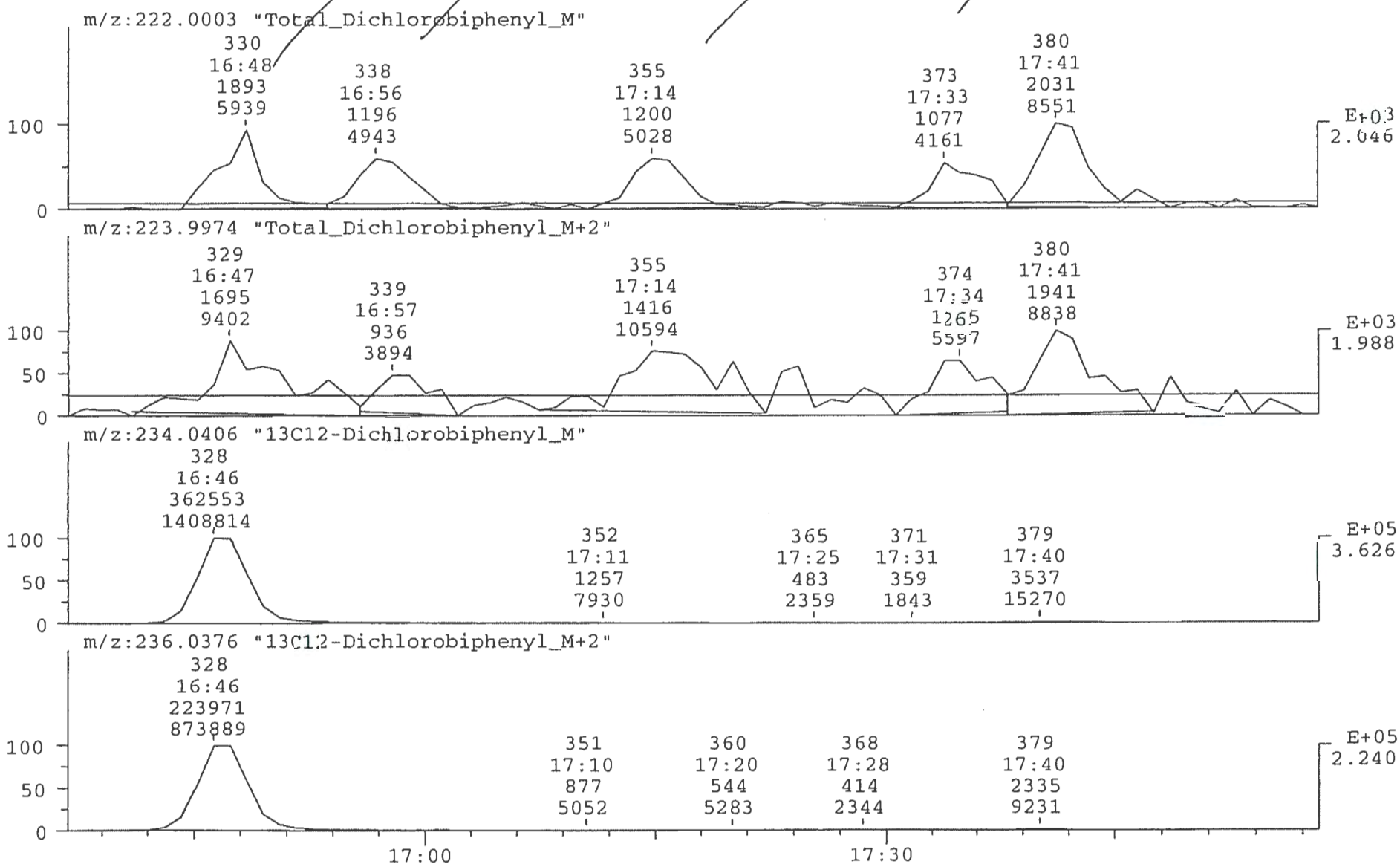


```
CHRO:  apj8alab                                12-Oct-07   Elapse:  56:12      2556
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   204 > 242            Masses:  181 > 510
Area:  5, 2.00, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



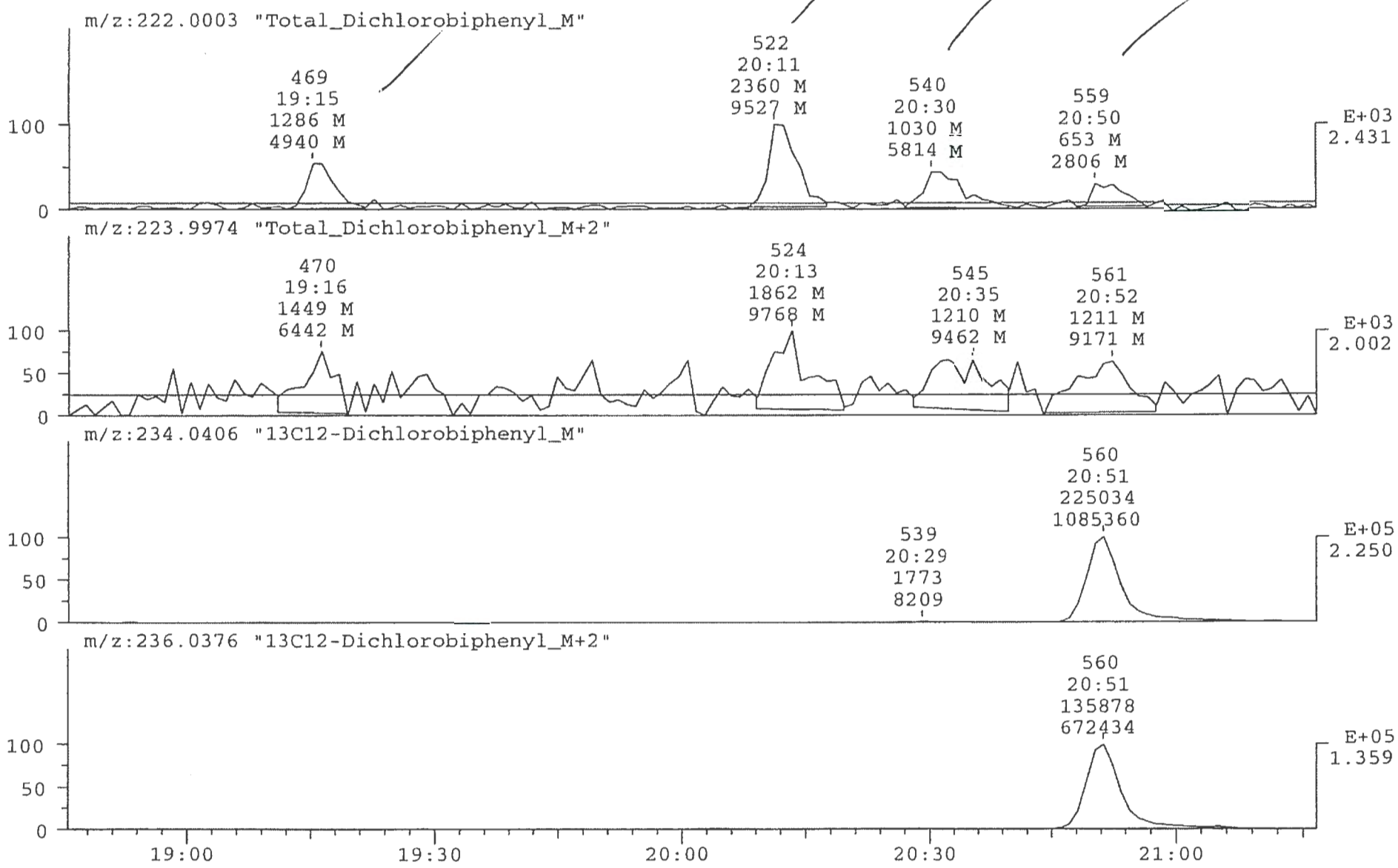
2947

CHRO: apj8alab 12-Oct-07 Elapse: 56:12 2556
Samp: Vial 10 WO=j8alalaa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 319 > 396 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

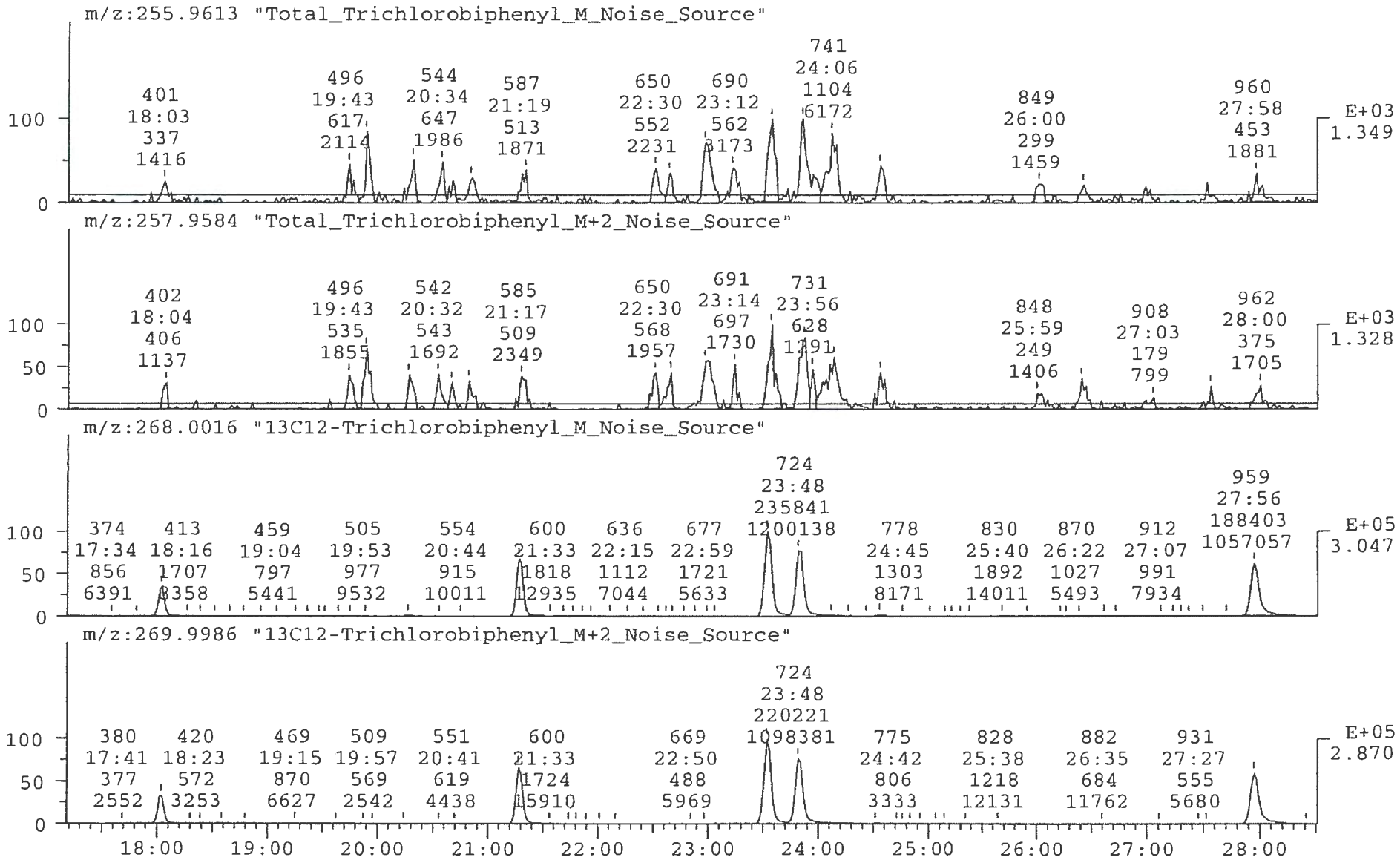


2948

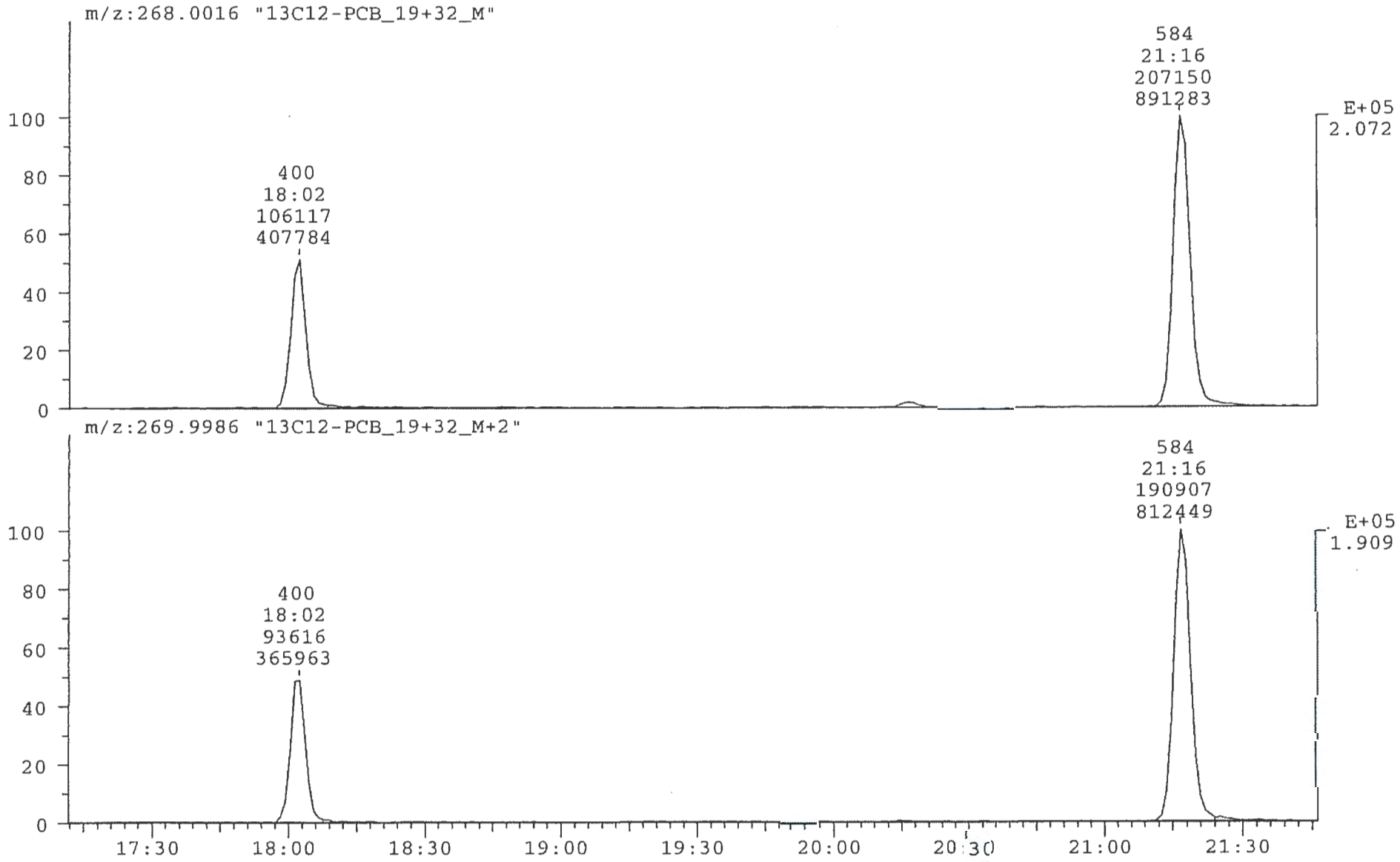
CHRO: apj8alab 12-Oct-07 Elapse: 56:12 2556
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 441 > 584 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -10, 3.0
Disp: Height Area



CHRO: apj8alab 12-Oct-07 Elapse: 22:52.9 671
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

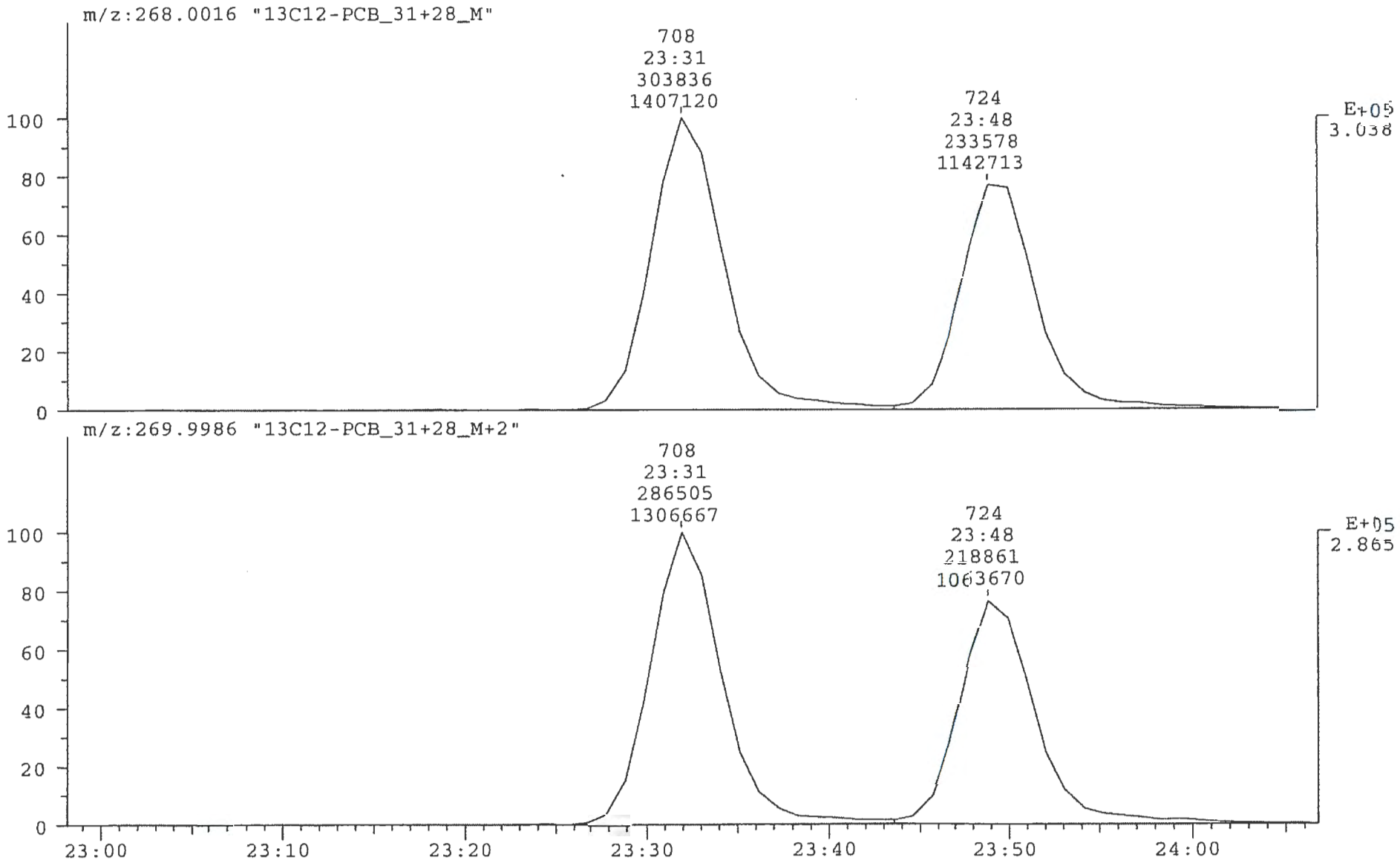


```
CHRO:  apj8alab                                12-Oct-07  Elapse:  19:18.3      472
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                 Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   352 > 612           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```

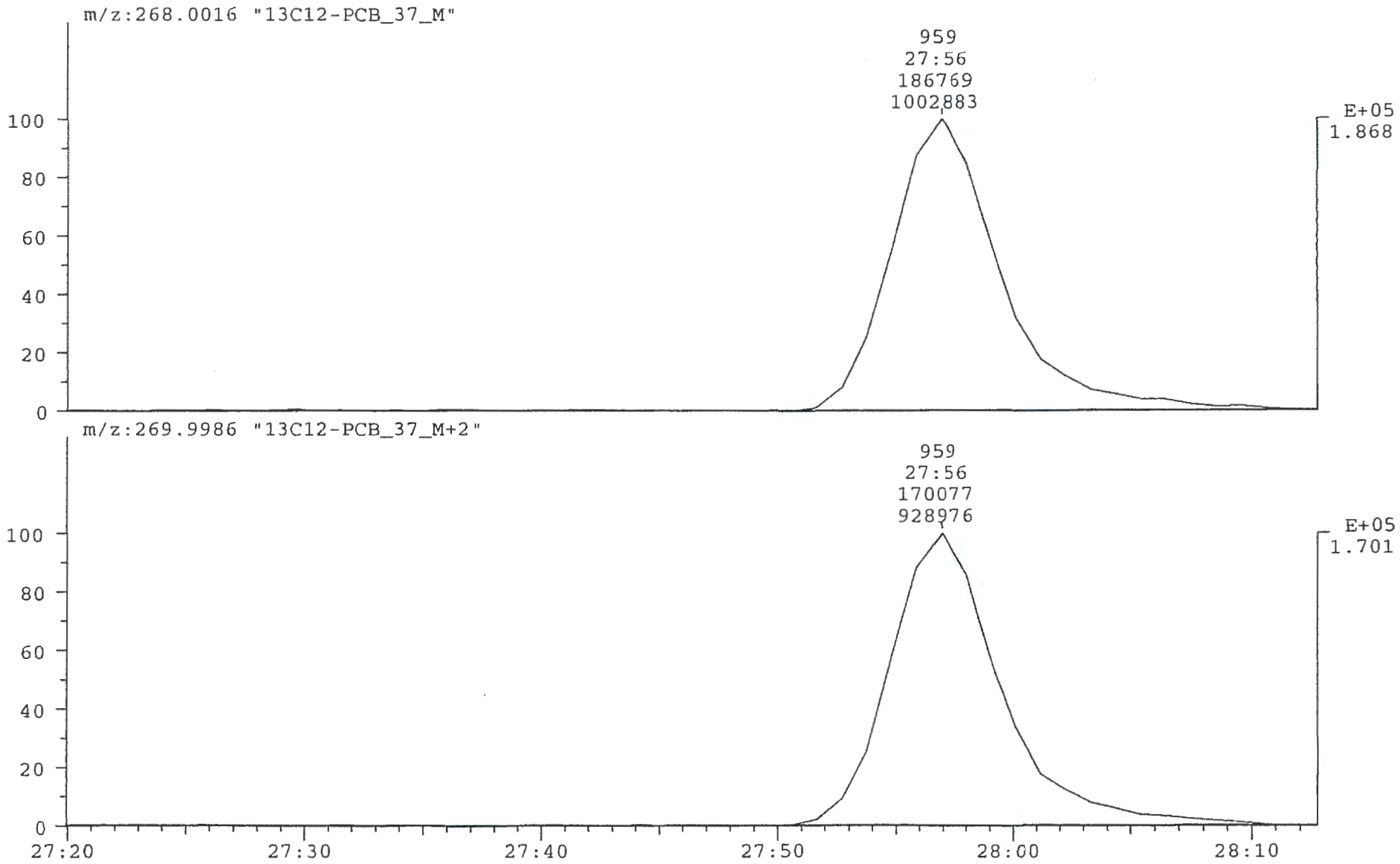


2951

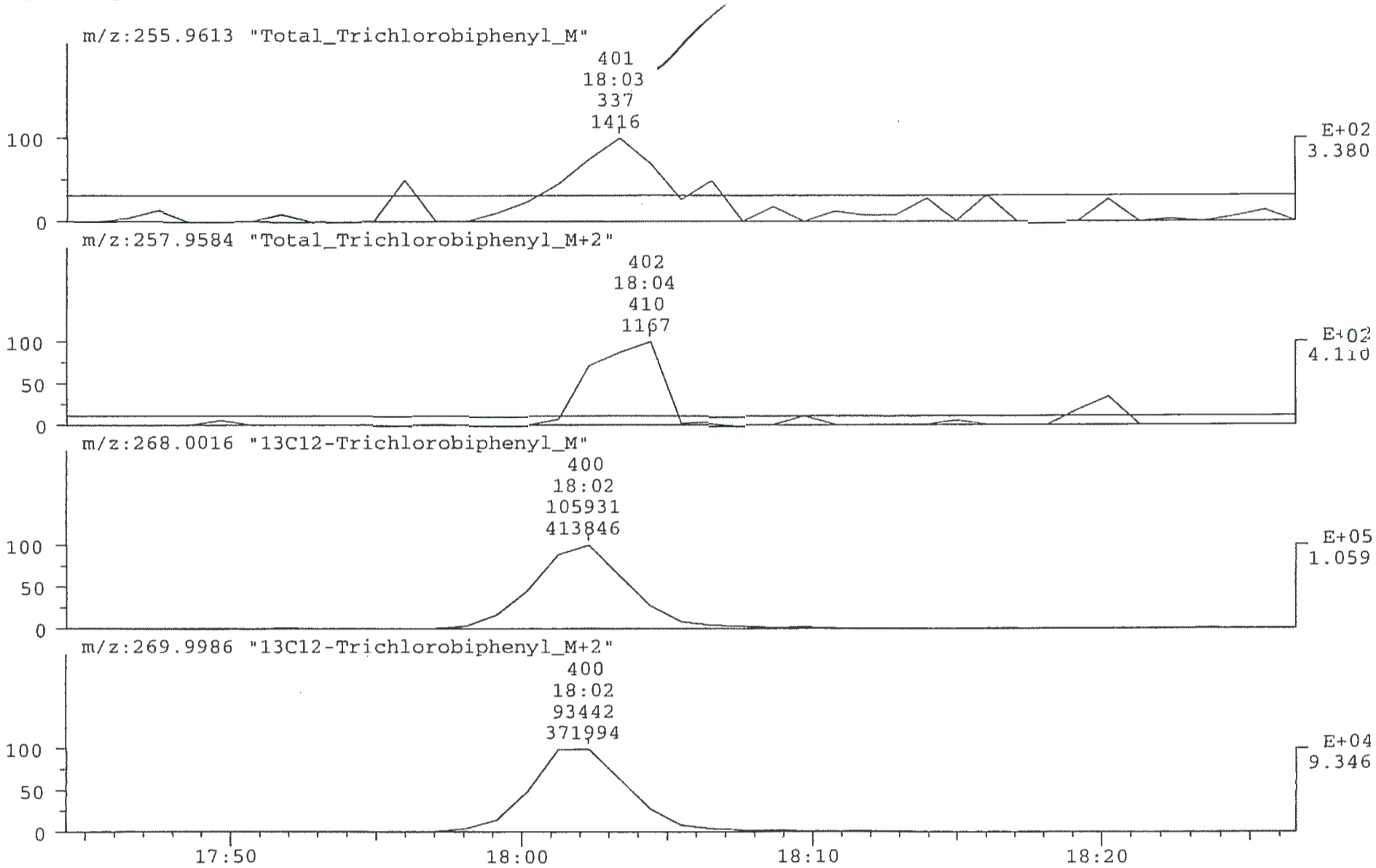
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  23:24.5      701
Samp:  Vial 10 WO=j8alalaa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   676 > 741            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



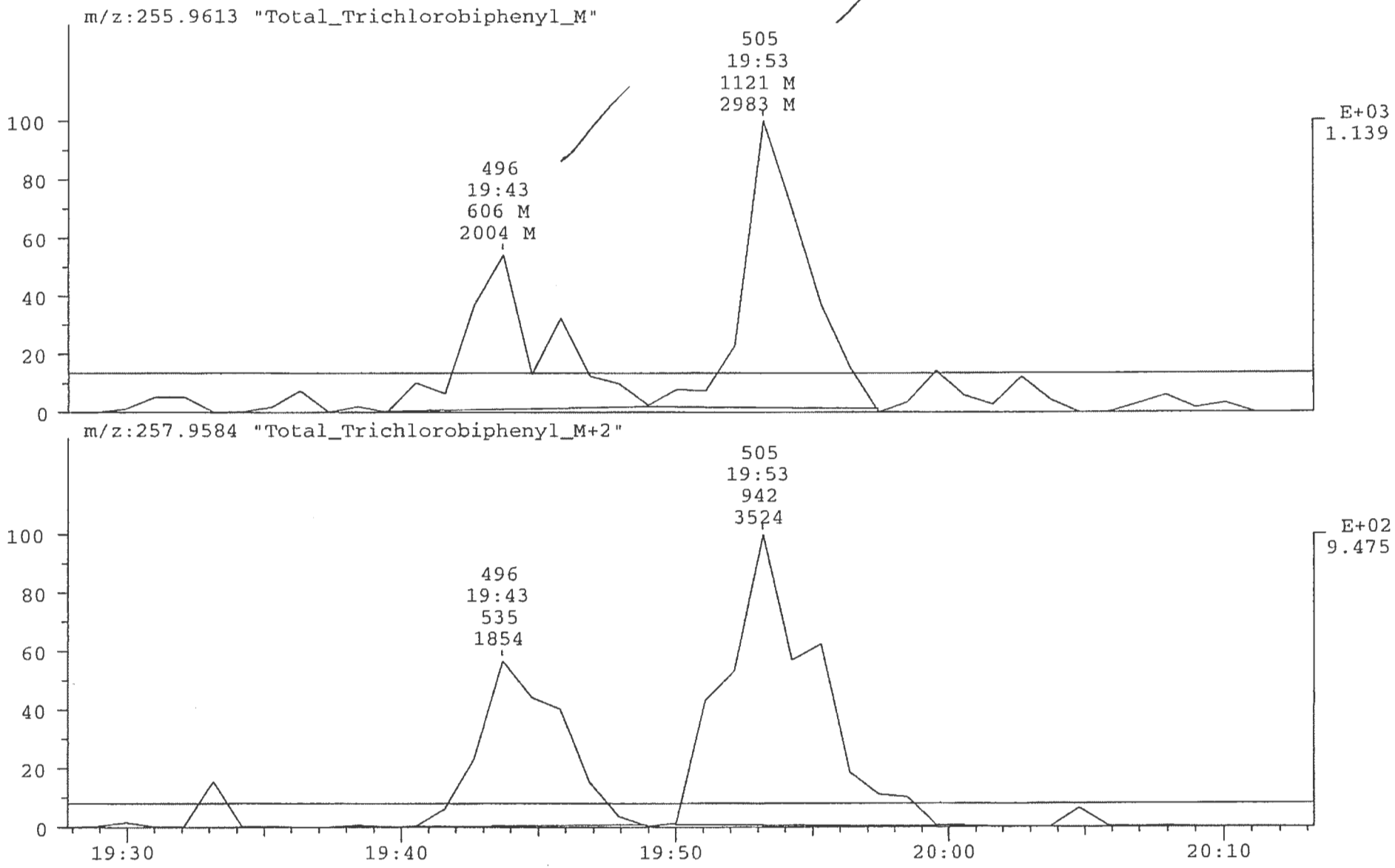
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  27:46.4      949
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   924 > 974            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



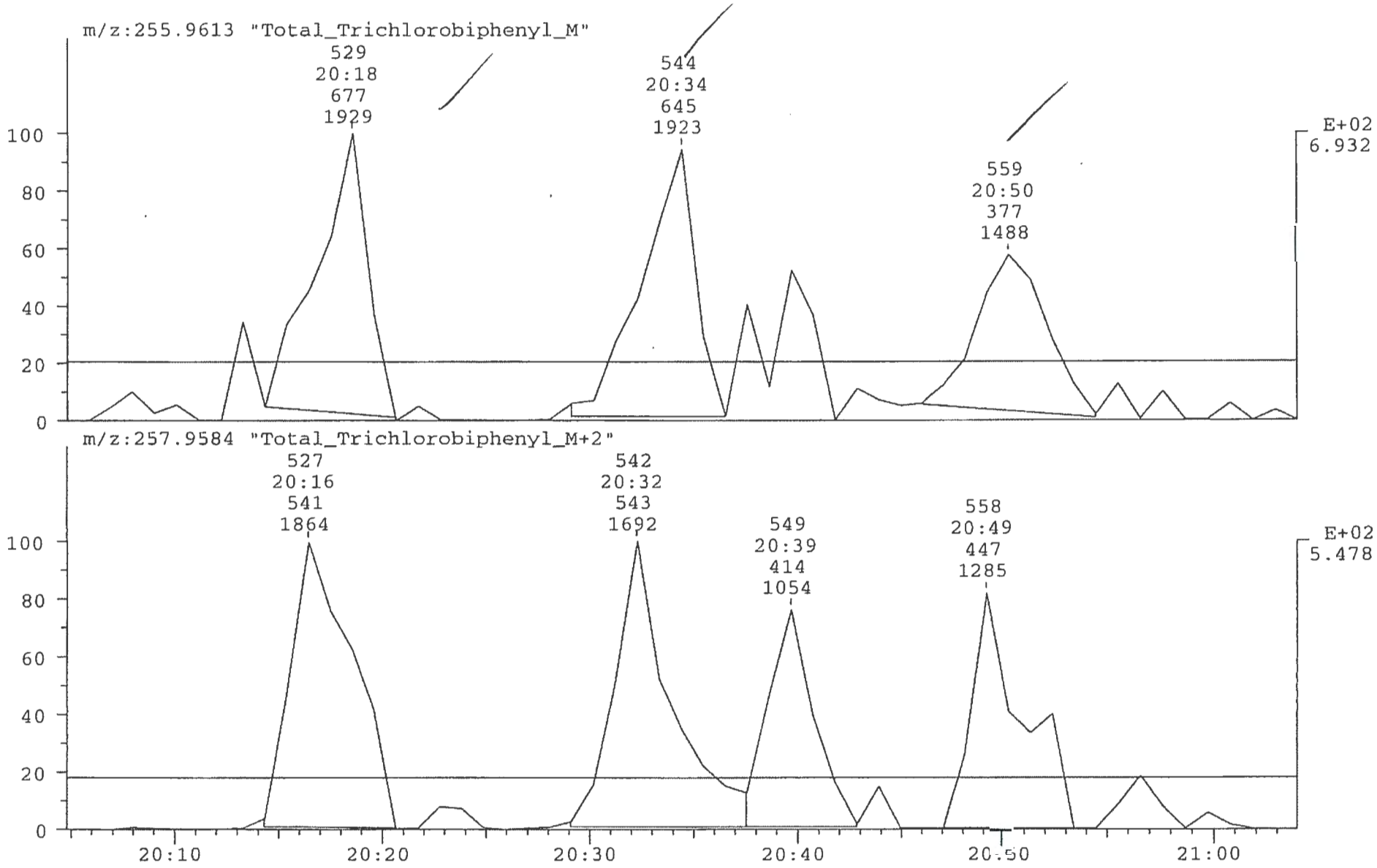
```
CHRO:  apj8alab                                12-Oct-07  Elapse:  56:12      2556
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                 Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC     Vial 10
Peak:  100.00  ppm      Label wndw:   383 > 423           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



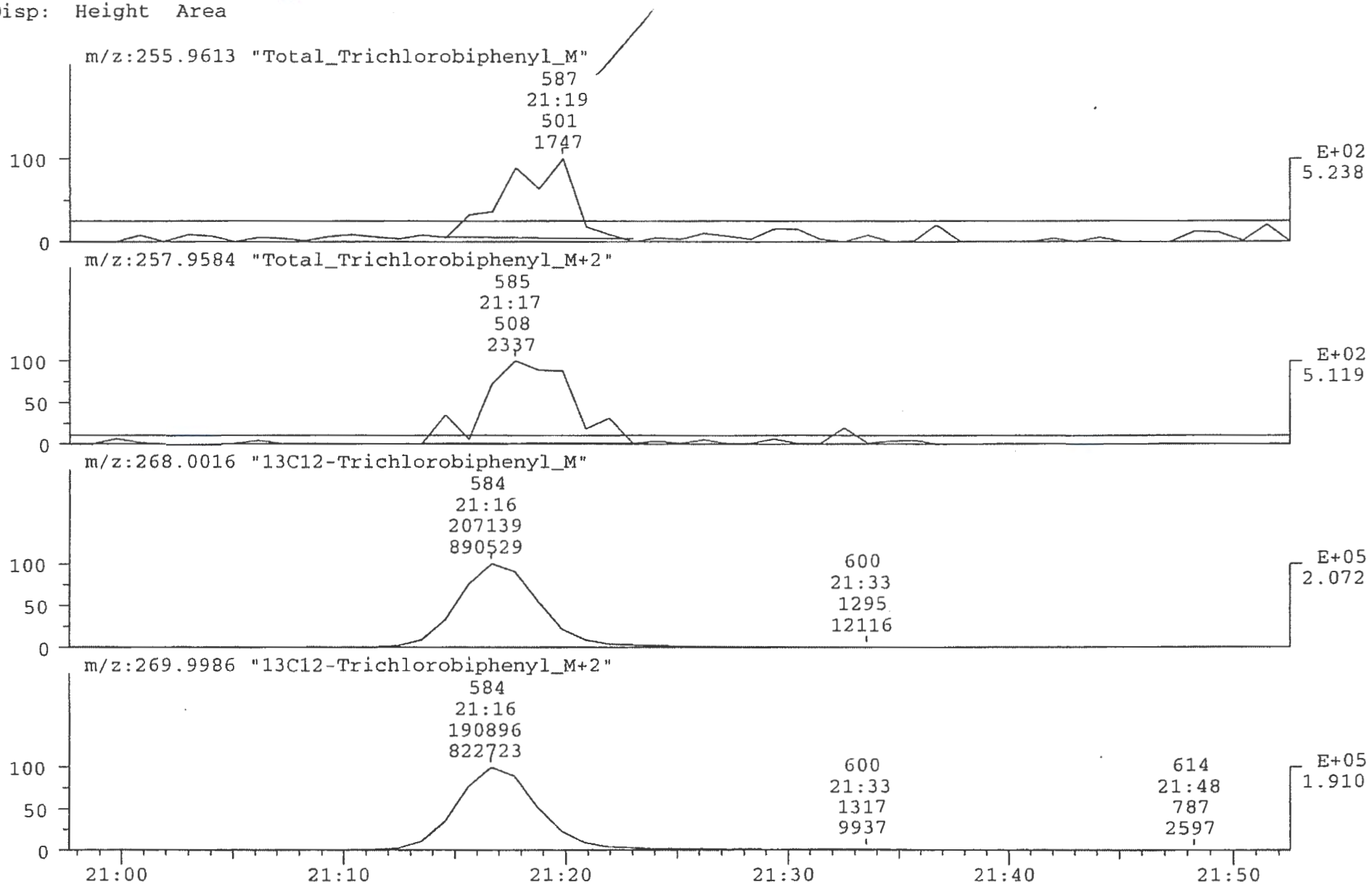
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  56:12      2556
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial 10
Peak:  100.00  ppm      Label wndw:   481 > 524            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



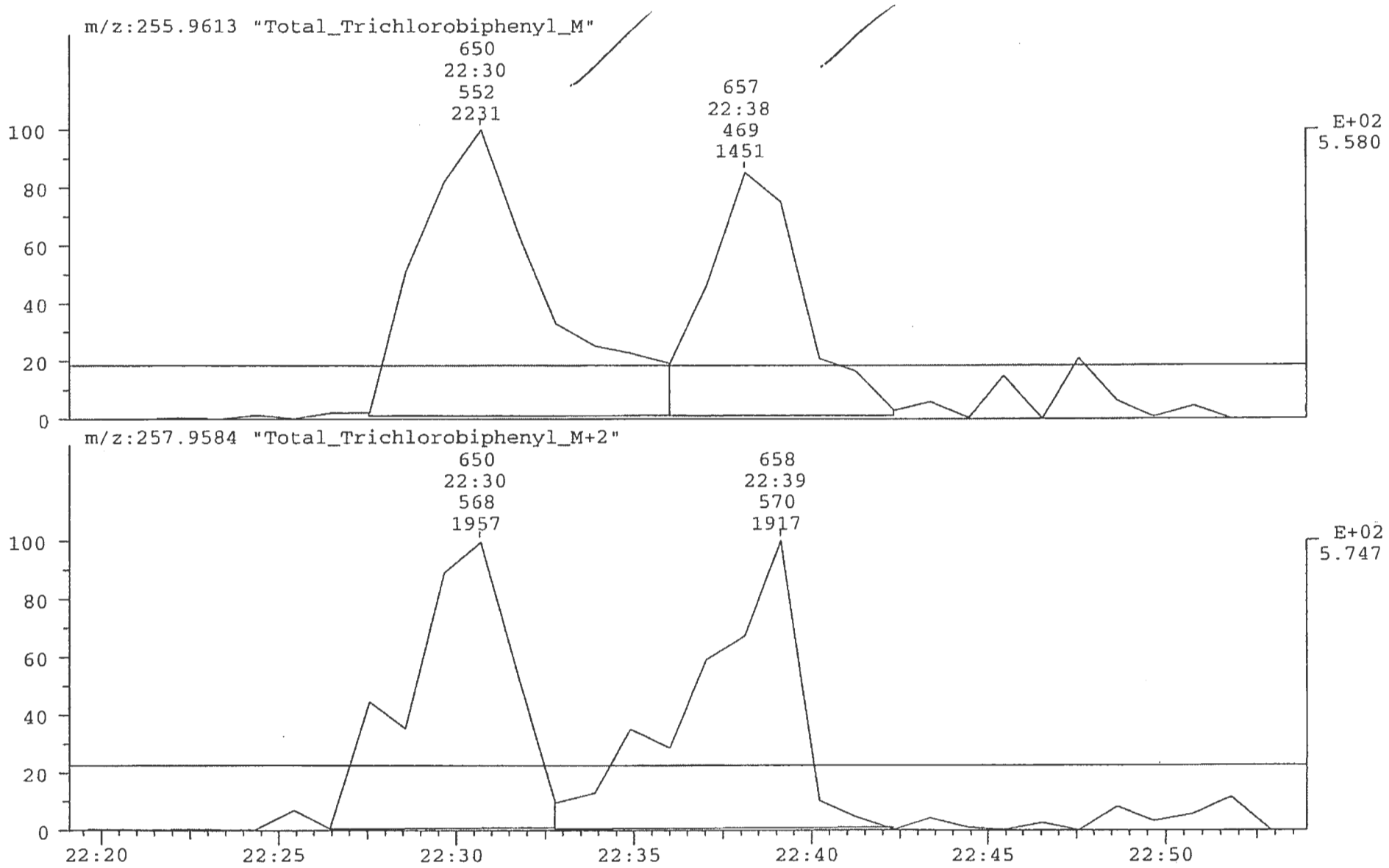
CHRO: apj8alab 12-Oct-07 Elapse: 56:12 2556
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 516 > 572 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  apj8alab                                12-Oct-07   Elapse:  20:52.3      561
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   566 > 618            Masses:  181 > 510
Area:  5, 1.00, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

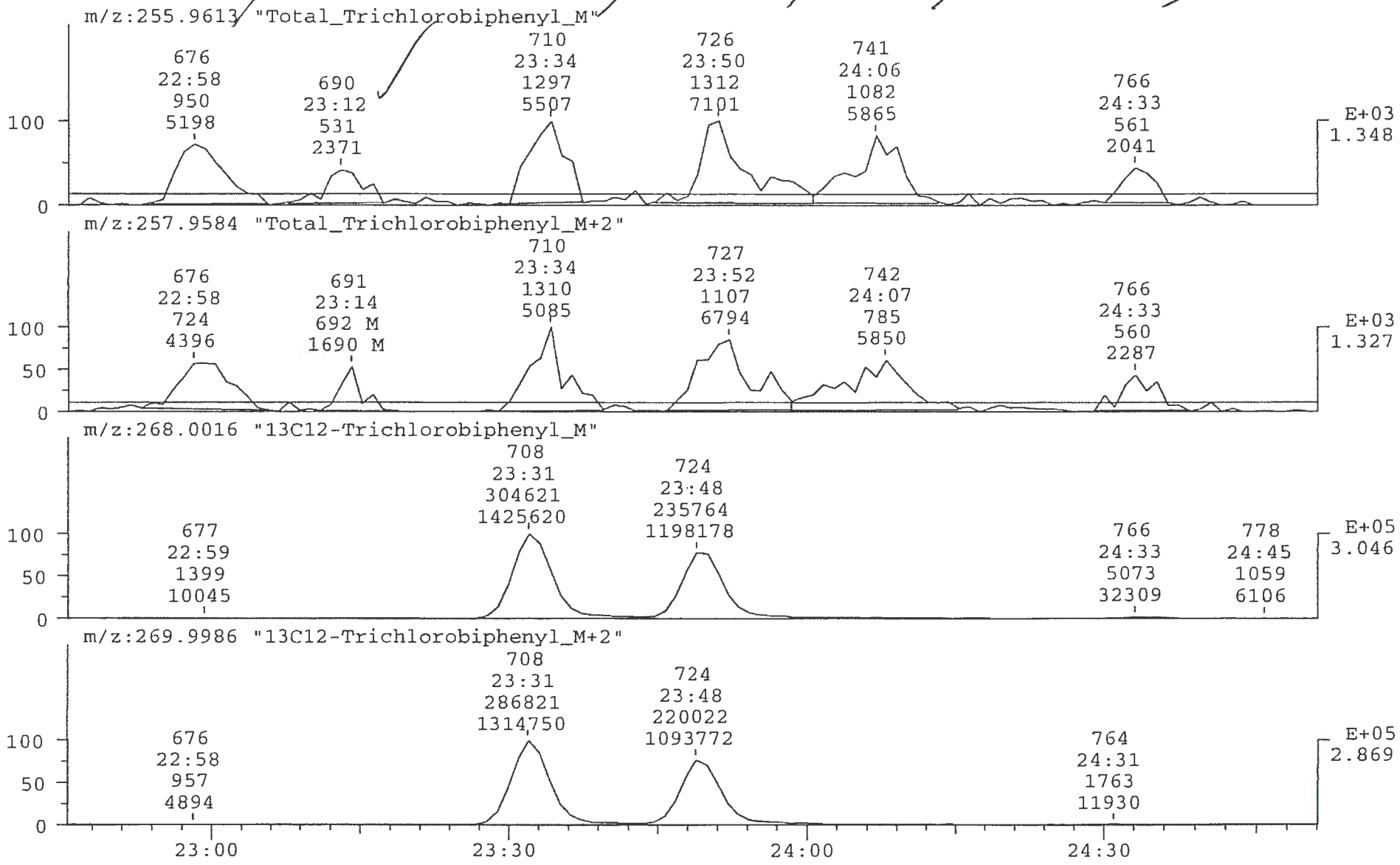


```
CHRO:  apj8alab                                12-Oct-07  Elapse:  20:52.3      561
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                 Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   639 > 672           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



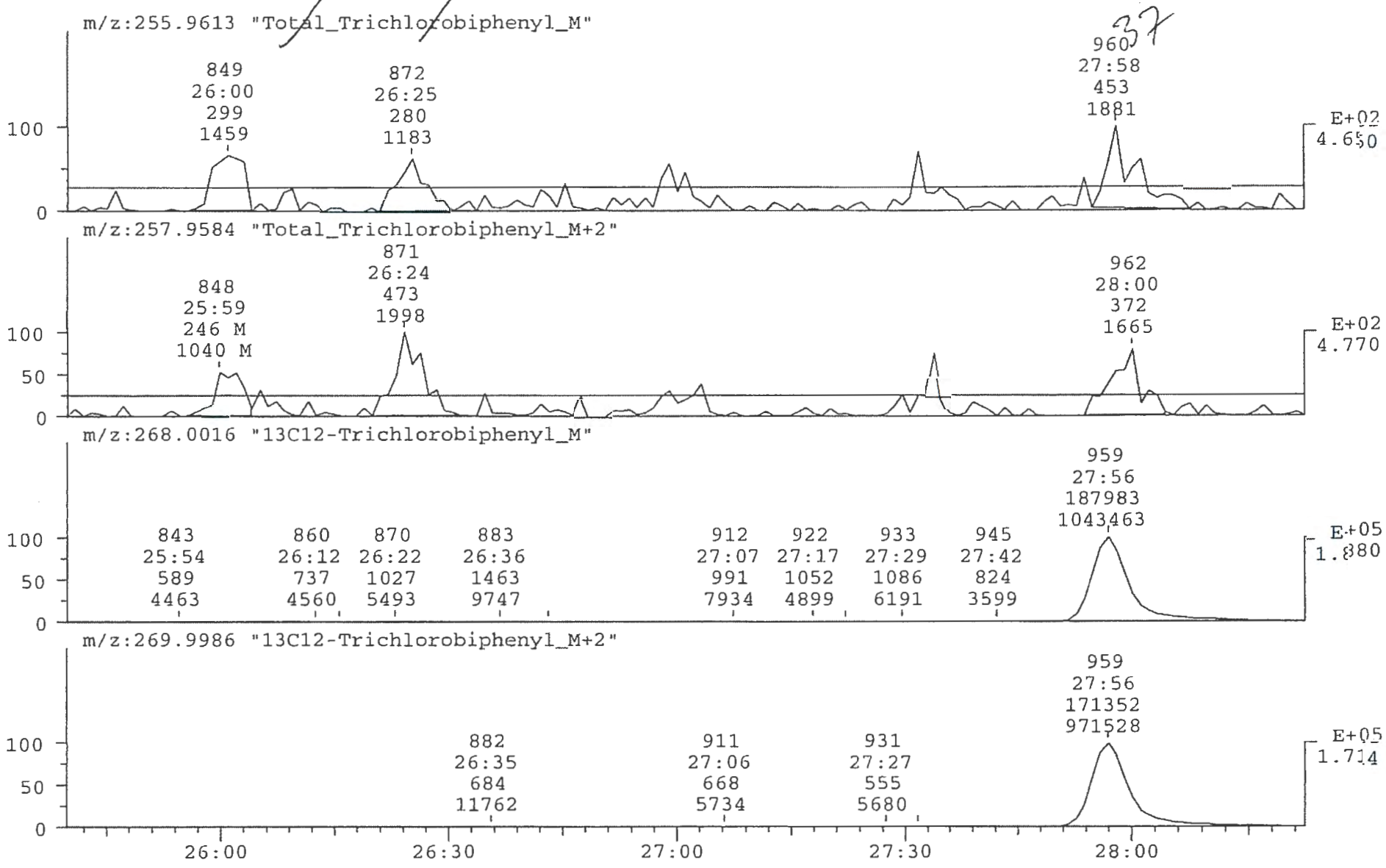
2958

CHRO: apj8alab 12-Oct-07 Elapse: 17:53.8 392
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 664 > 783 Masses: 181 > 510
Area: 5, 1.20, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



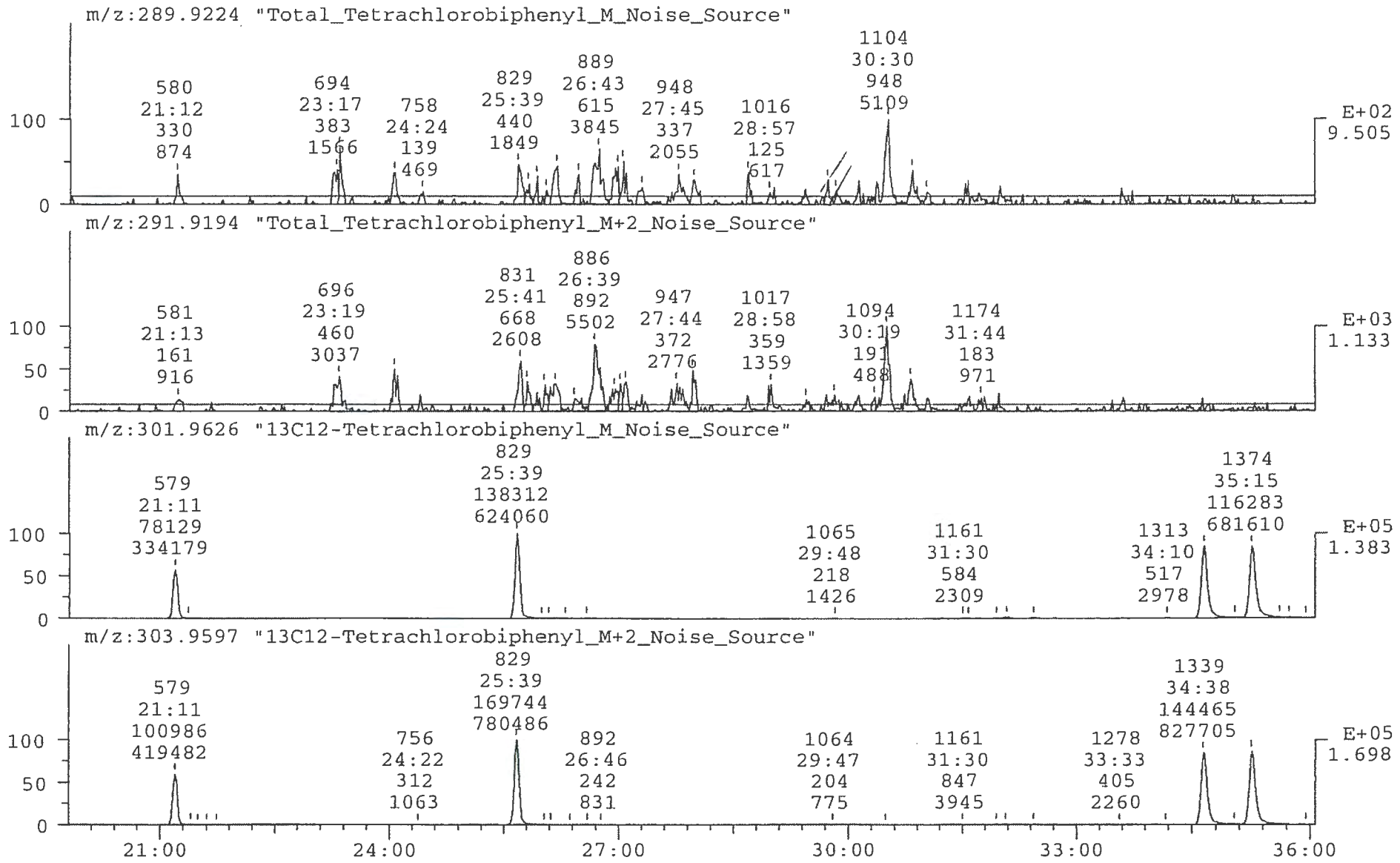
2959

CHRO: apj8alab 12-Oct-07 Elapse: 20:52.3 561
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=mid/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 829 > 983 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



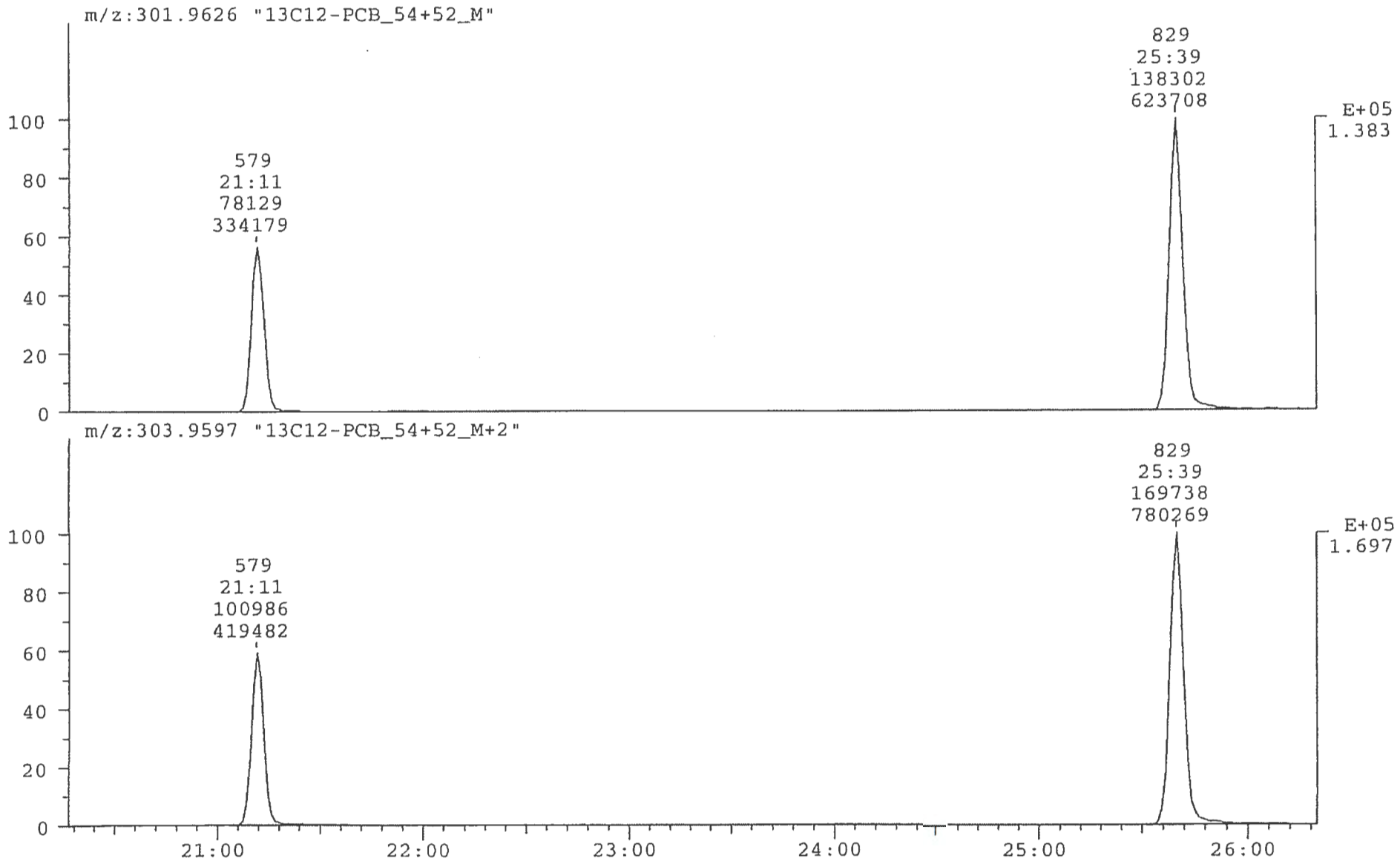
2960

CHRO: apj8alab 12-Oct-07 Elapse: 27:55.8 958
Samp: Vial 10 WO=j8alalaa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 500 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

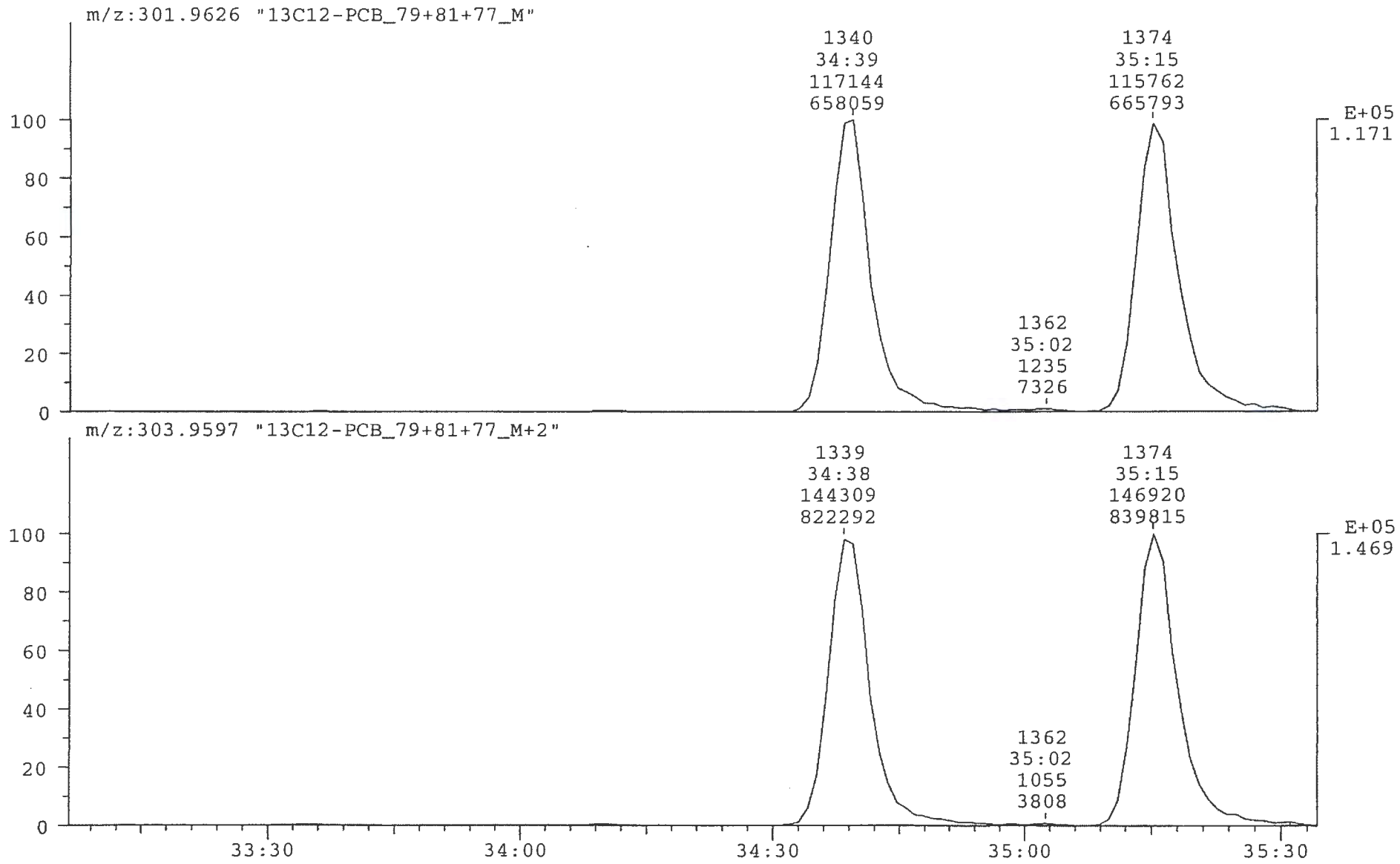


2961

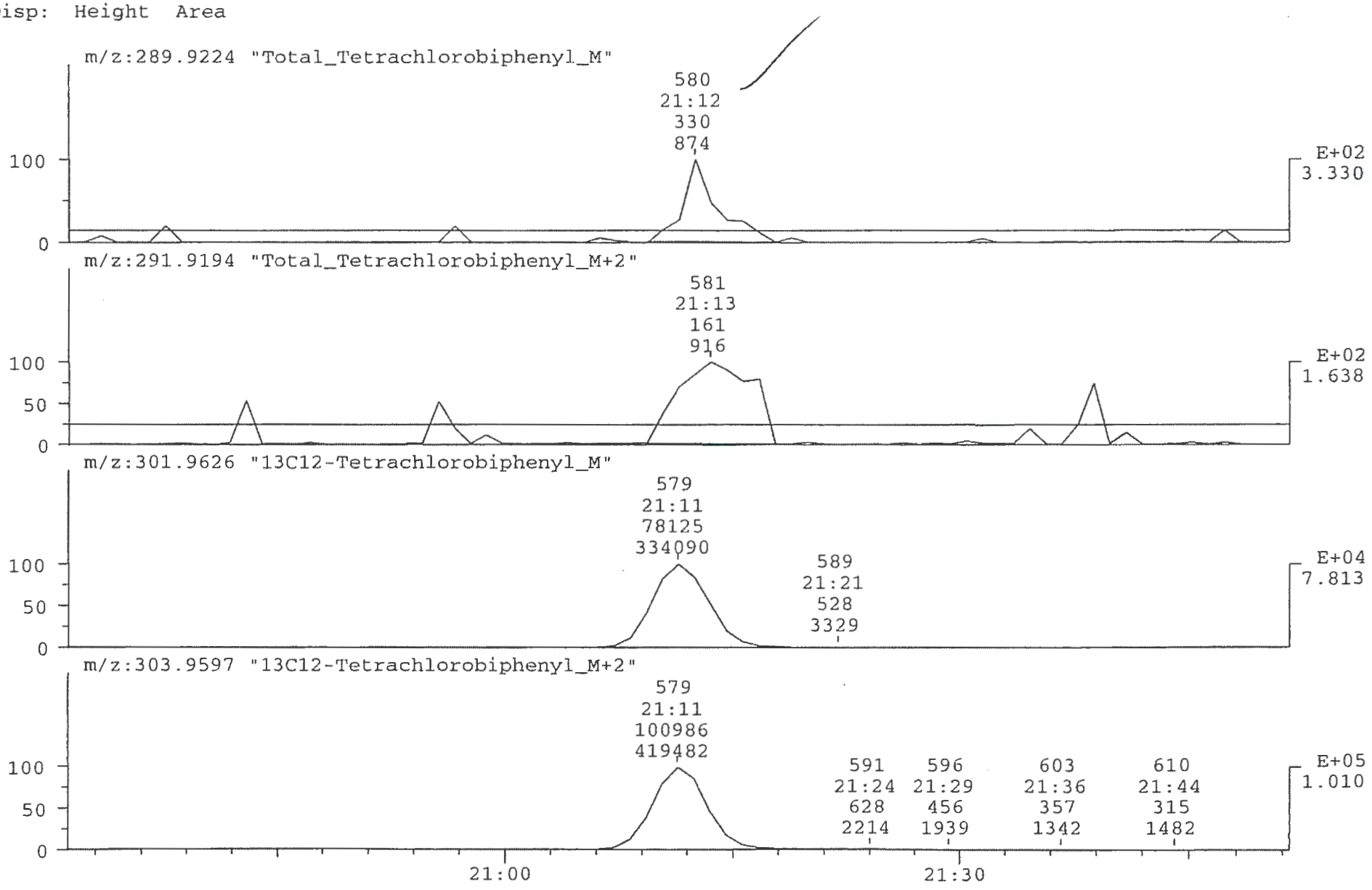
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  23:20.3      697
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   527 > 867            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



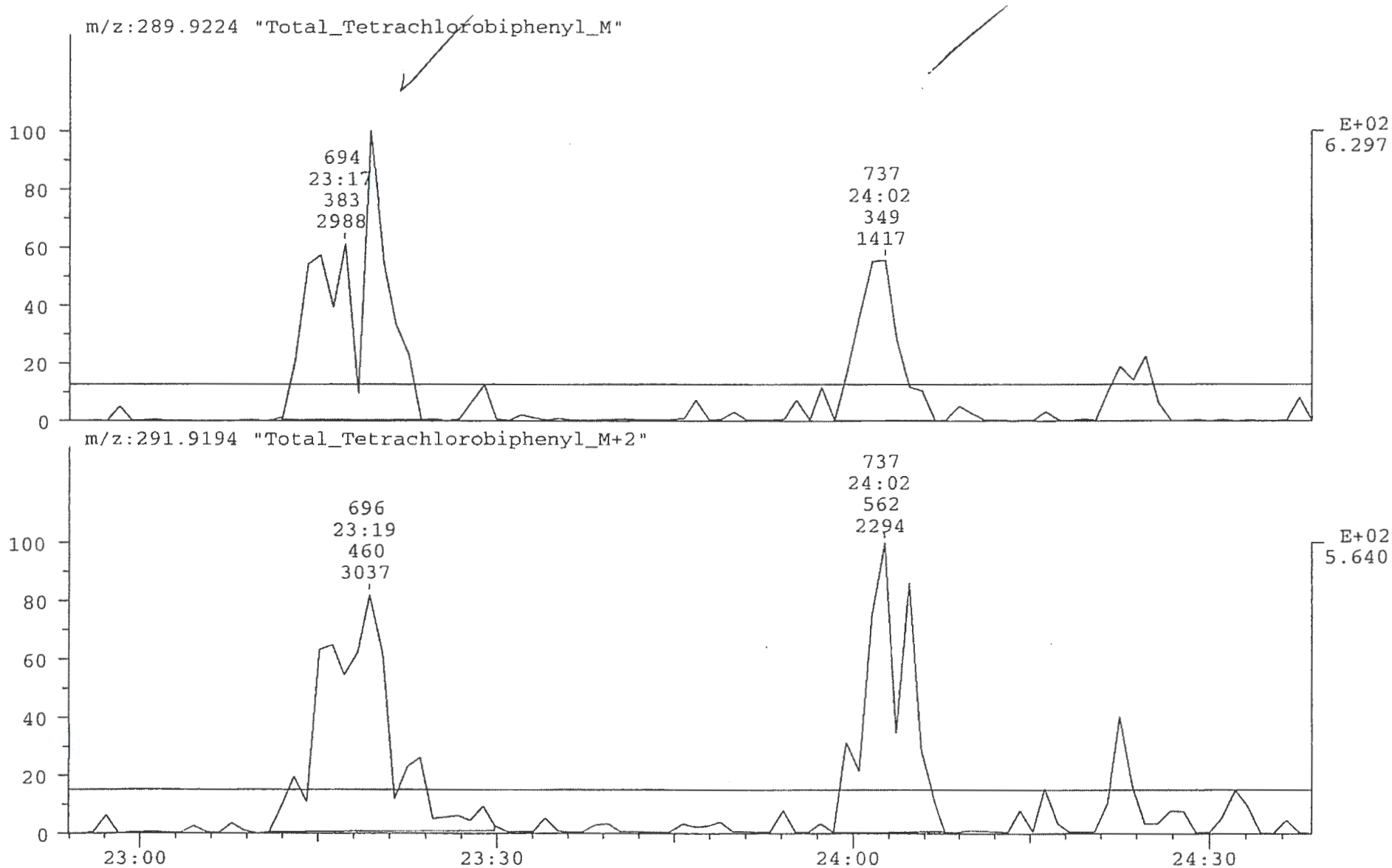
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  34:15      1317
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1252 > 1392          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



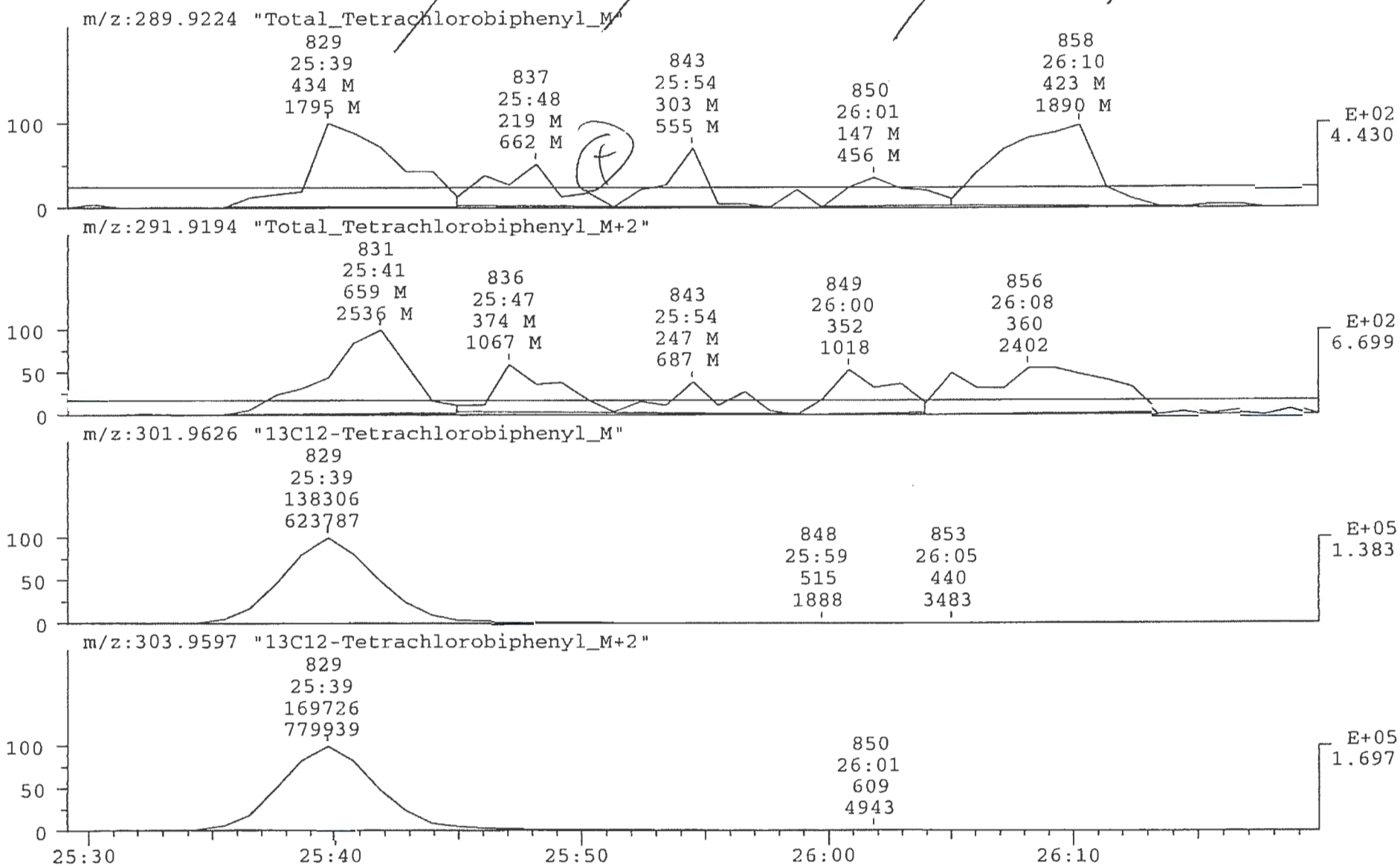
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  20:52.3      561
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   541 > 617            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alab                                12-Oct-07  Elapse:  20:52.3      561
Samp:  Vial 10 WO=j8alalaa Meth=IE5 Dil=1                 Start :  14:21:35    2595
Comm:  Inst=mld/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   672 > 771           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -5, 3.0
Disp:  Height  Area
```

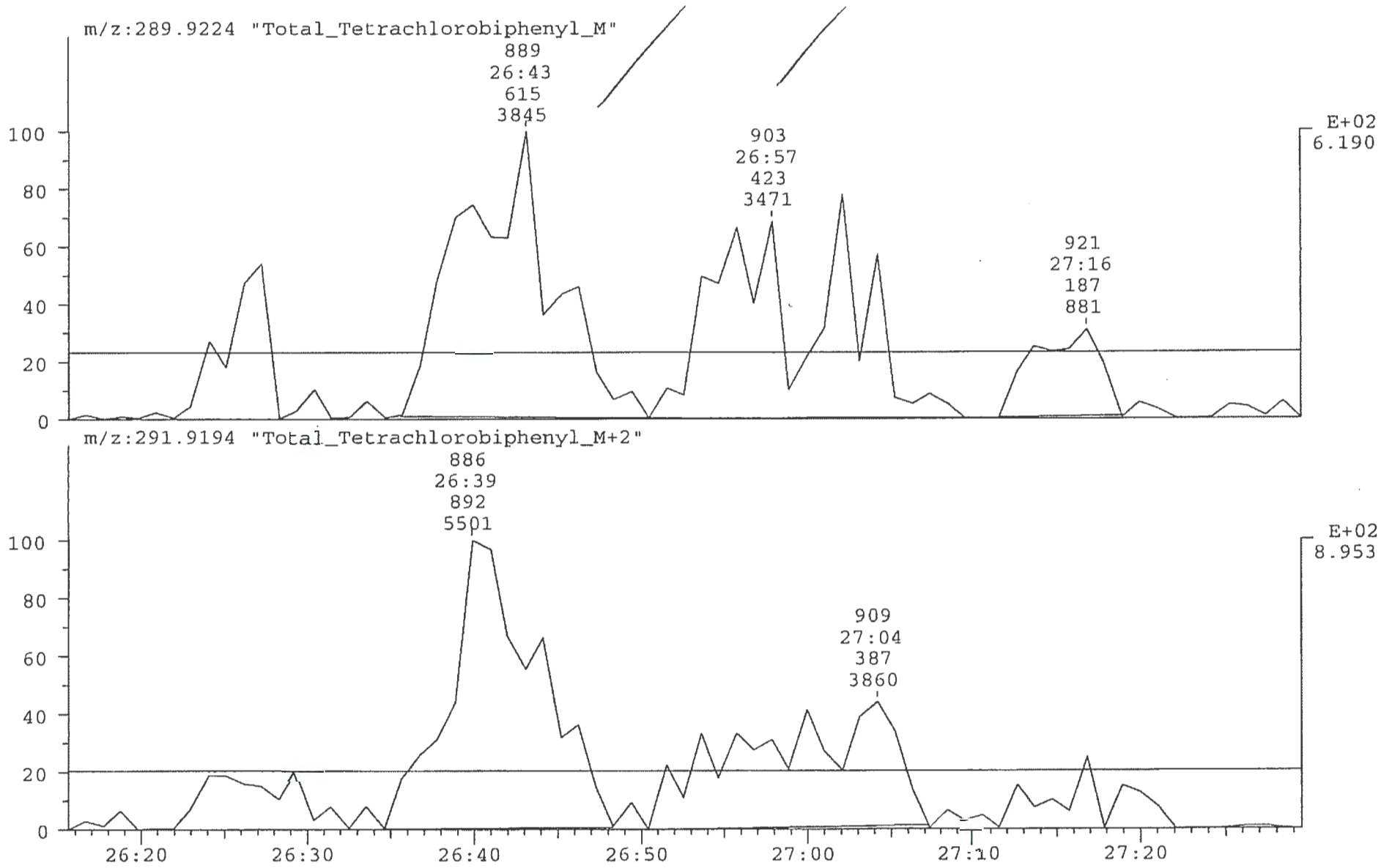


CHRO: apj8alab 12-Oct-07 Elapse: 20:52.3 561
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 819 > 867 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -4, 3.0
Disp: Height Area

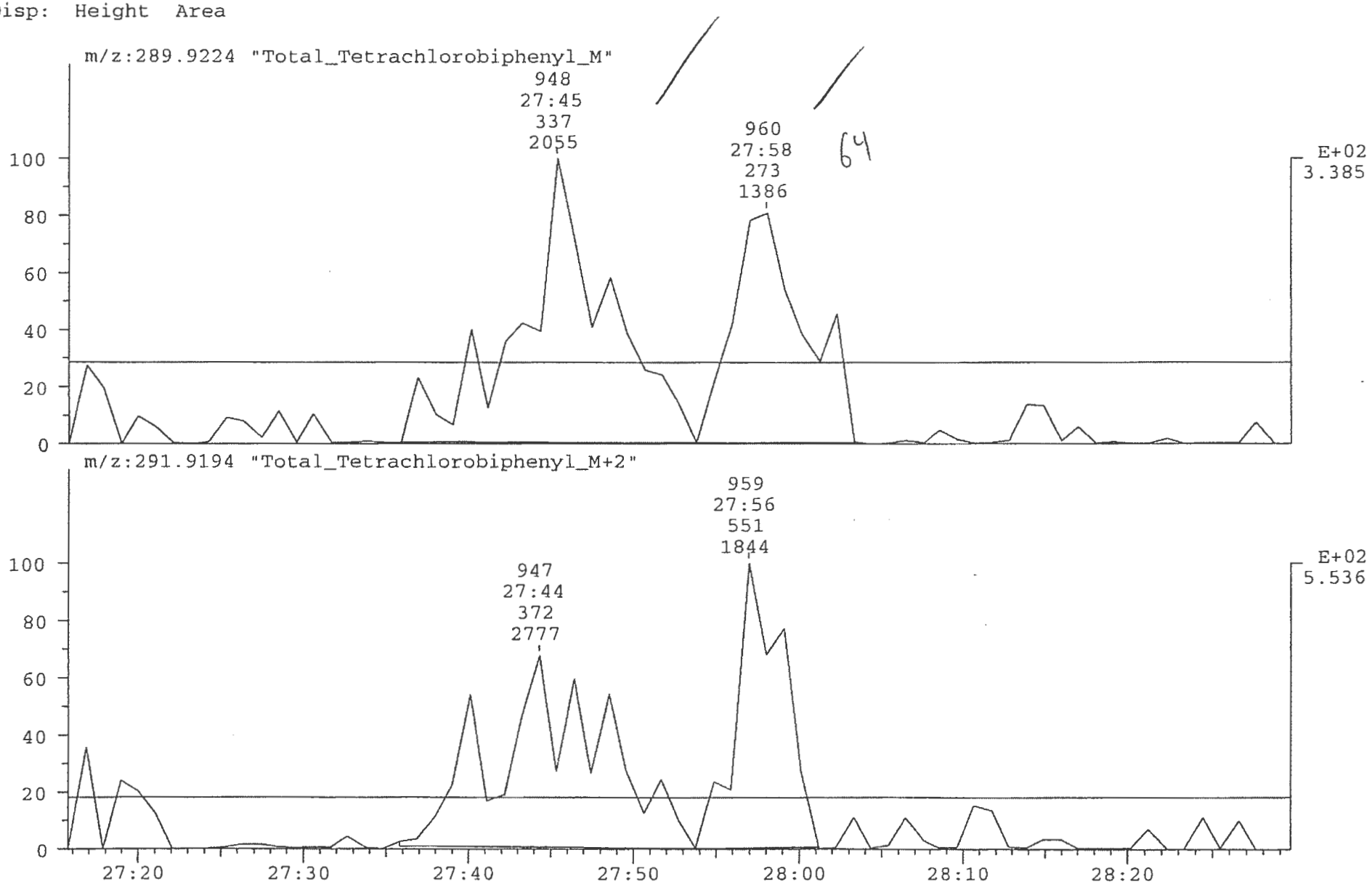


2966

```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   863 > 933            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5               Label :  -3, 3.0
Disp:  Height  Area
```

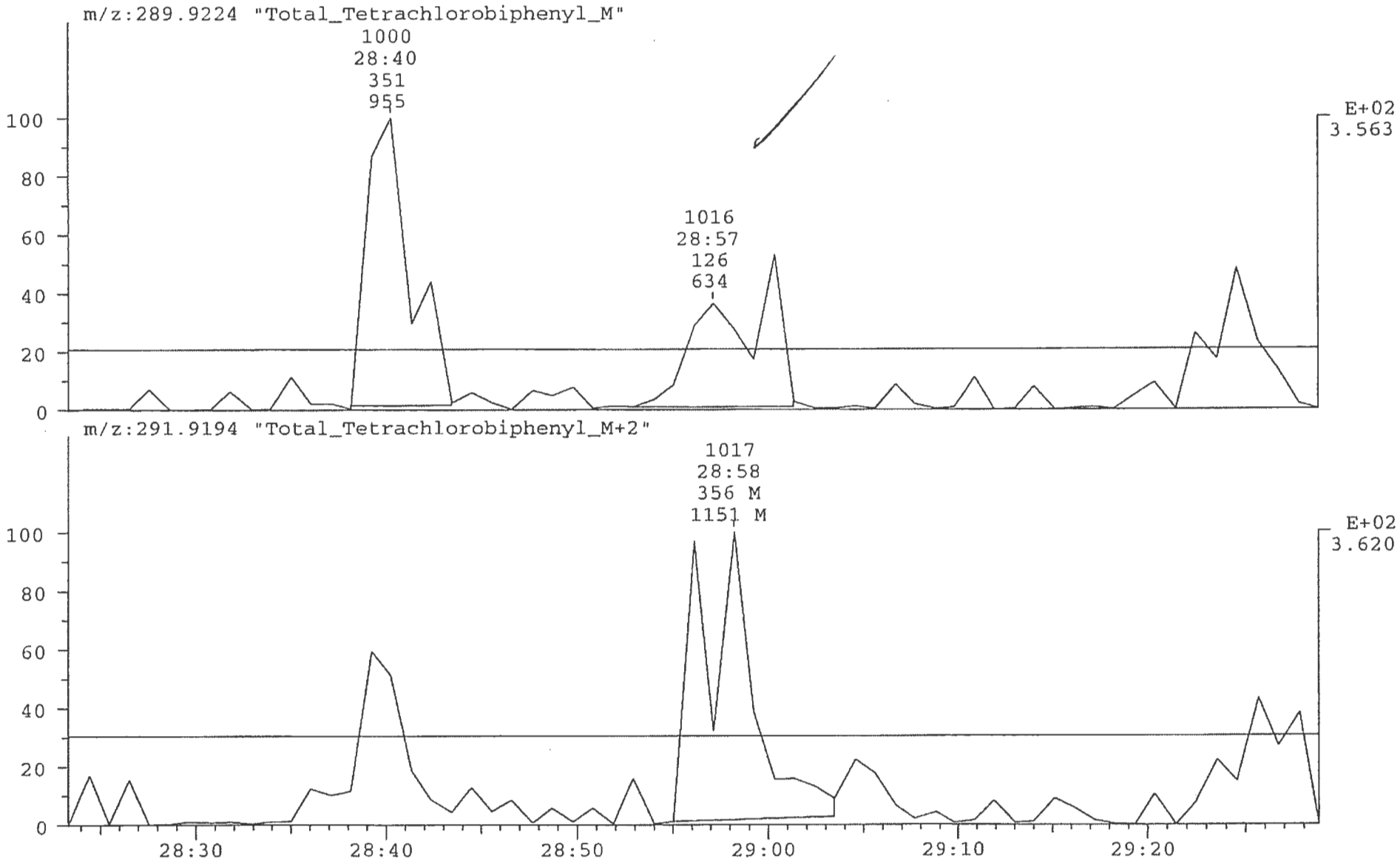


CHRO: apj8alab 12-Oct-07 Elapse: 26:27.2 874
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 920 > 990 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



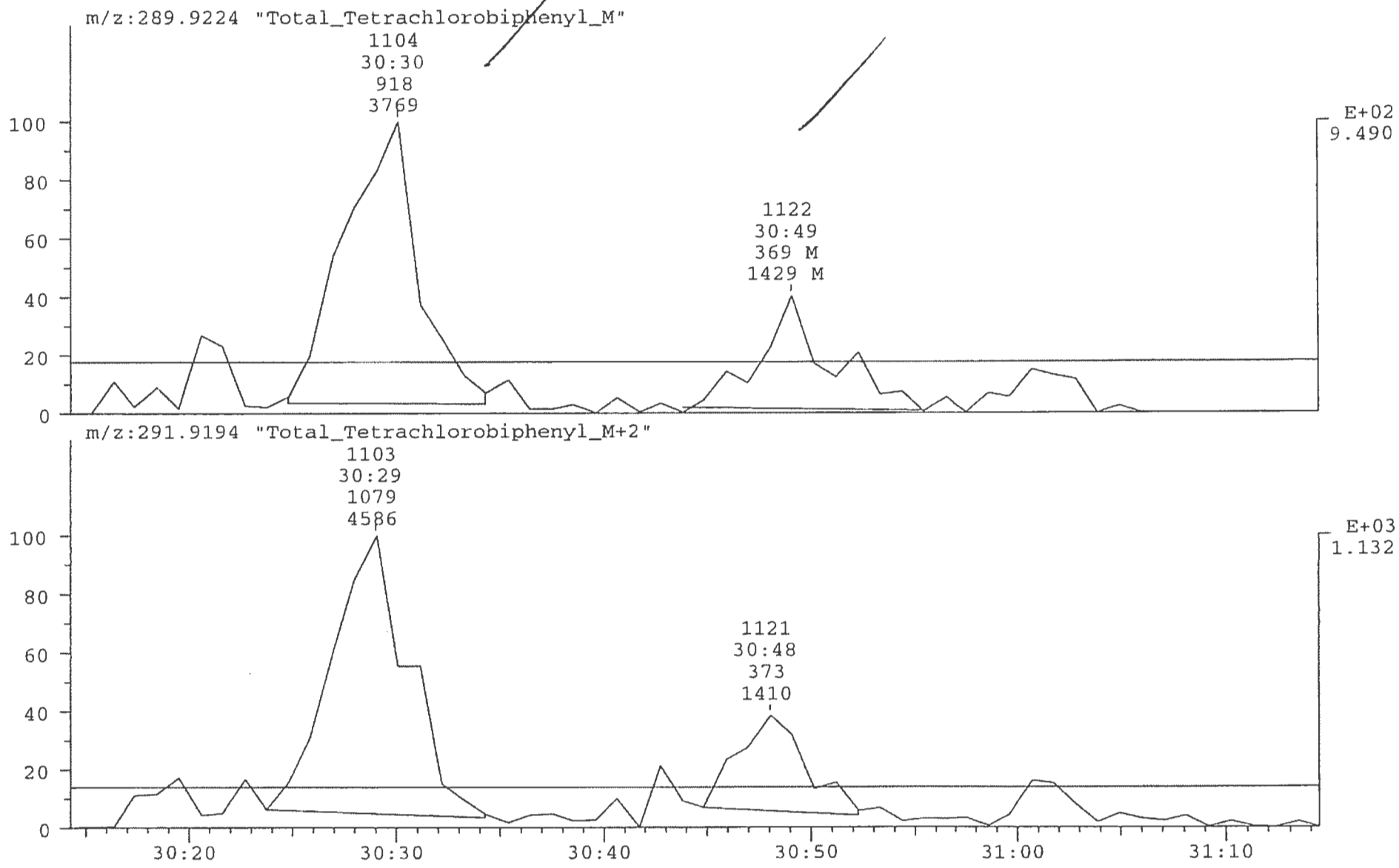
2968

```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   984 > 1046           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



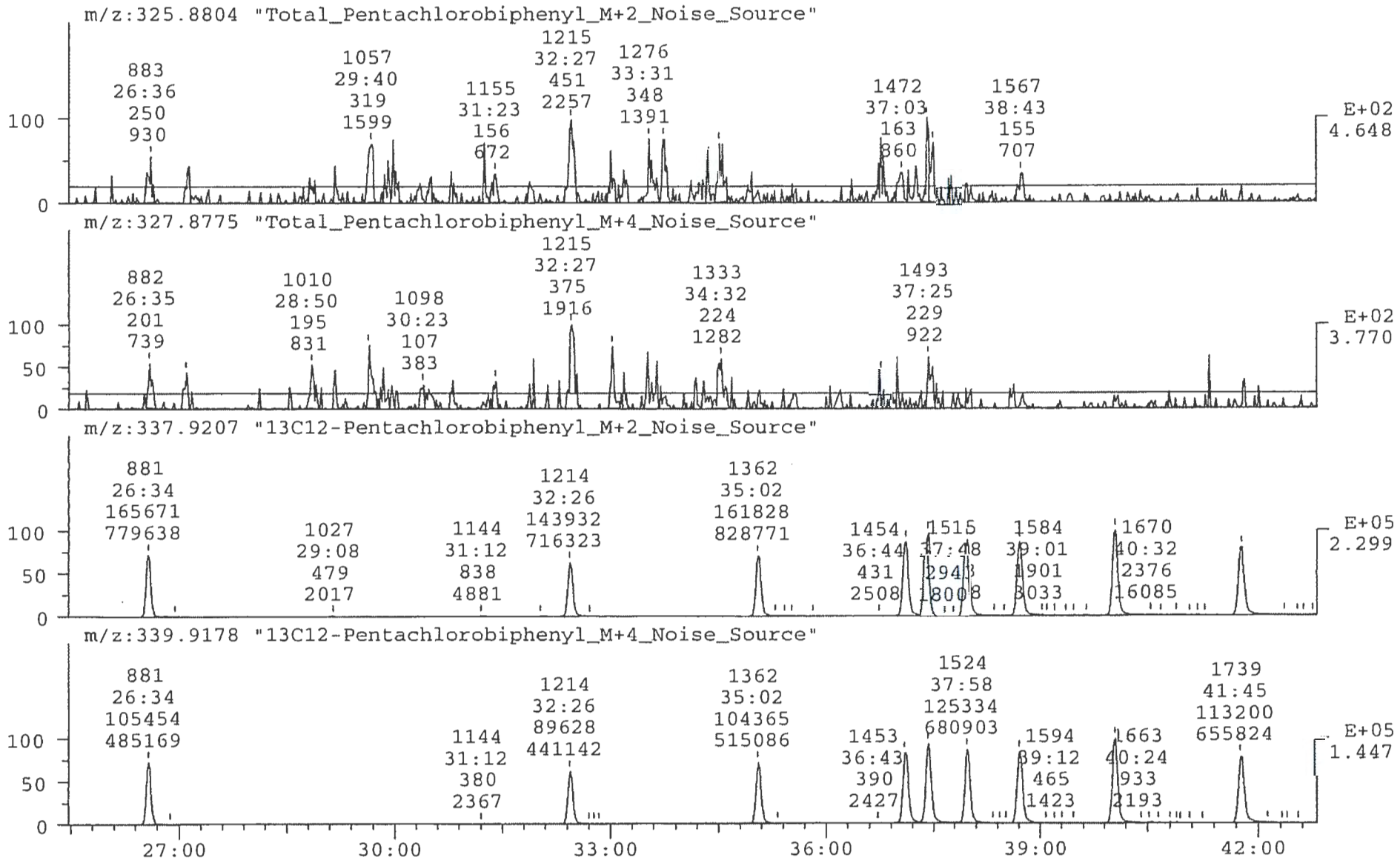
2969

```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   1089 > 1146          Masses:  181 > 510
Area:  5, 1.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



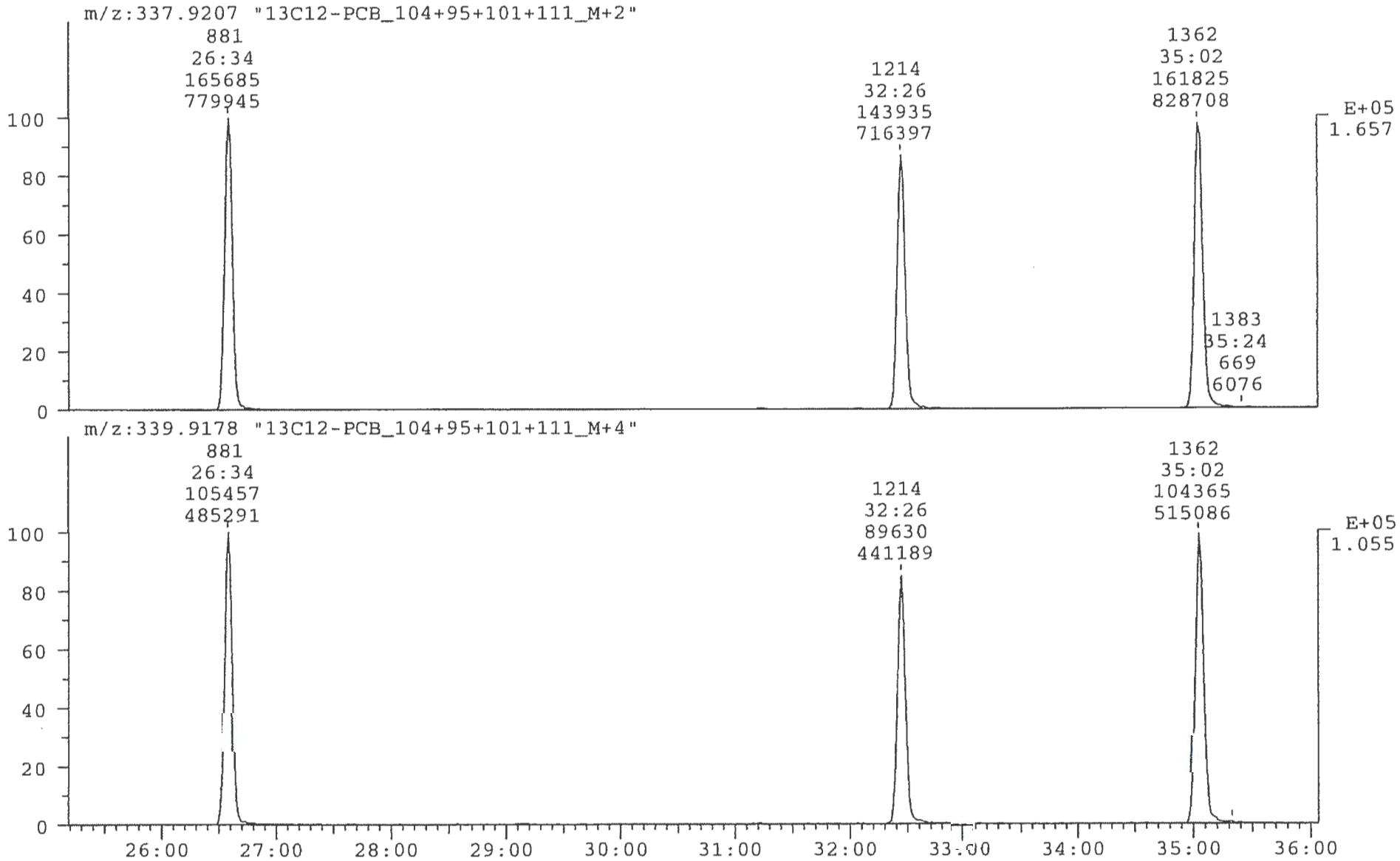
2970

```
CHRO:  apj8alab                                  12-Oct-07   Elapse:  34:07      1310
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                    Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B                Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   818 > 1799             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

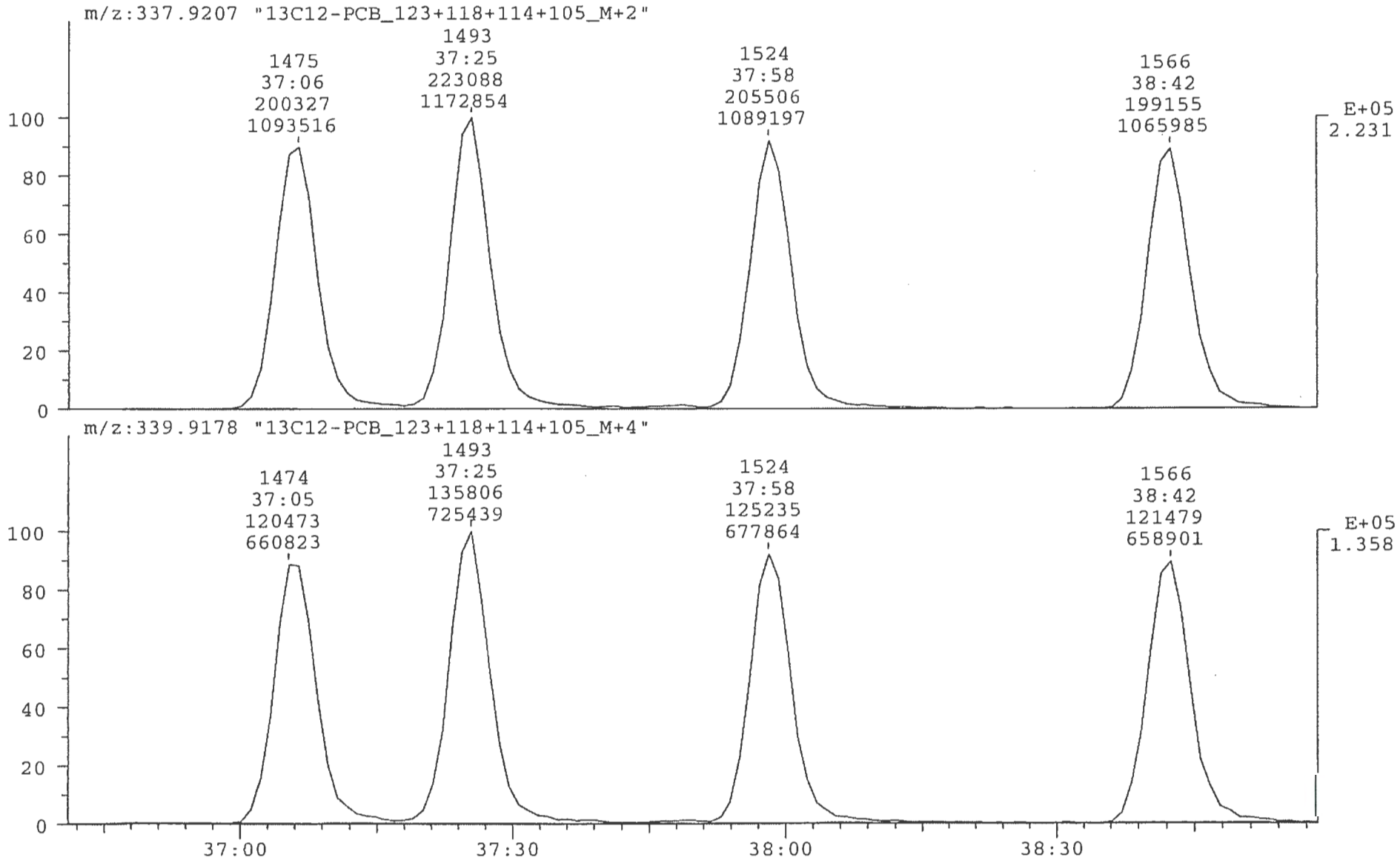


2971

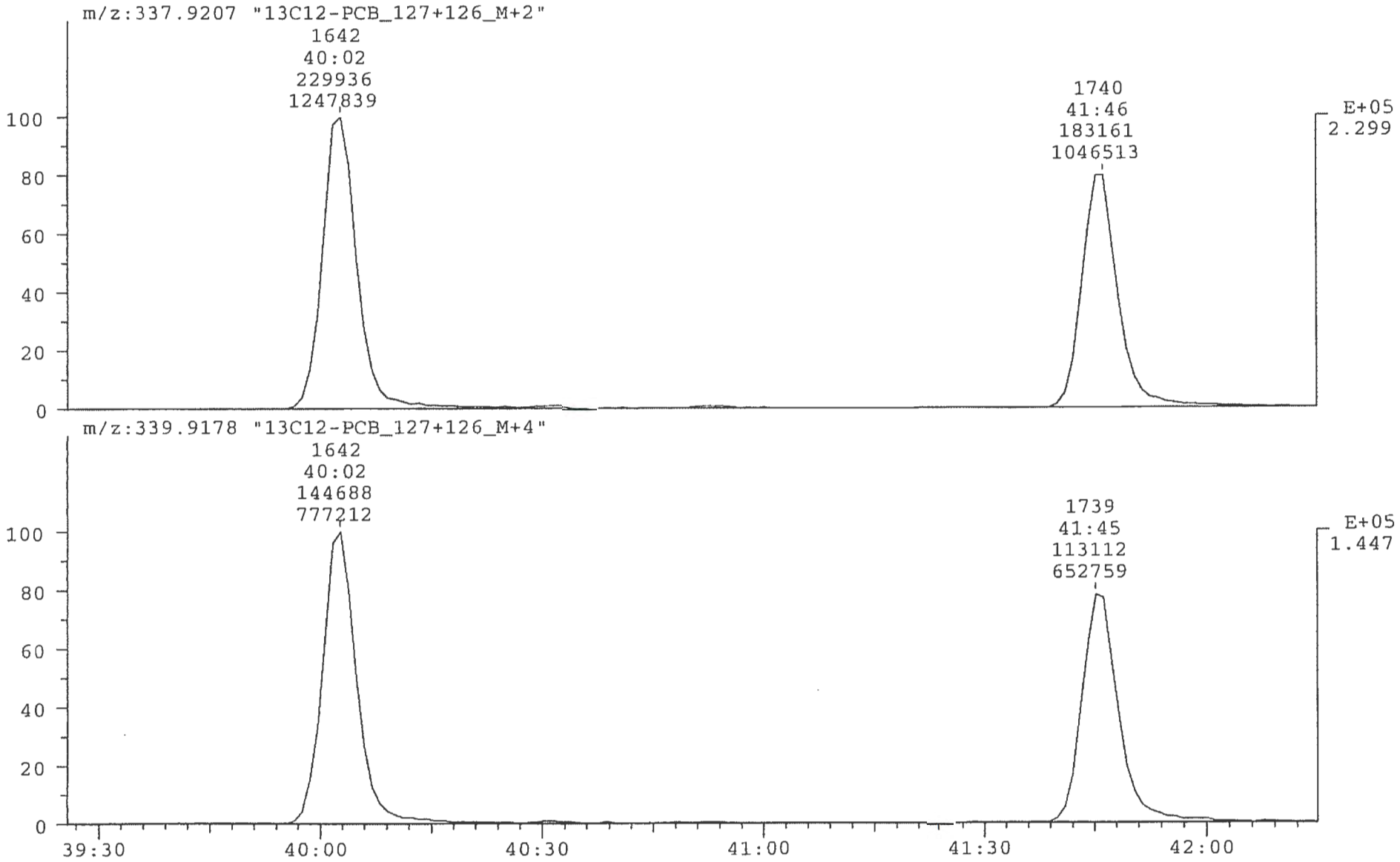
```
CHRO:  apj8alab                                12-Oct-07  Elapse:  30:37      1111
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                 Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   802 > 1420          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



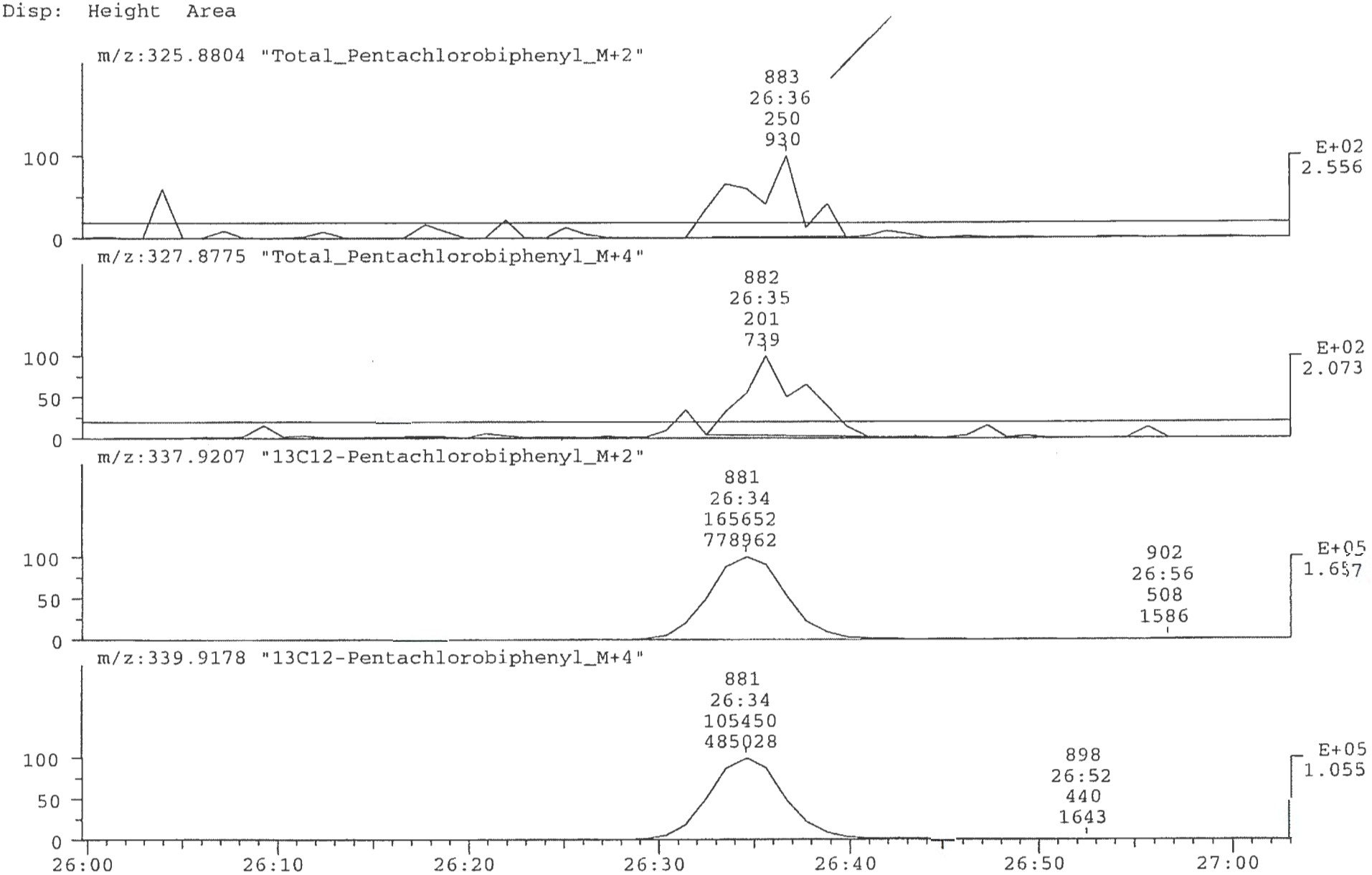
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  37:49      1516
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1451 > 1581          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



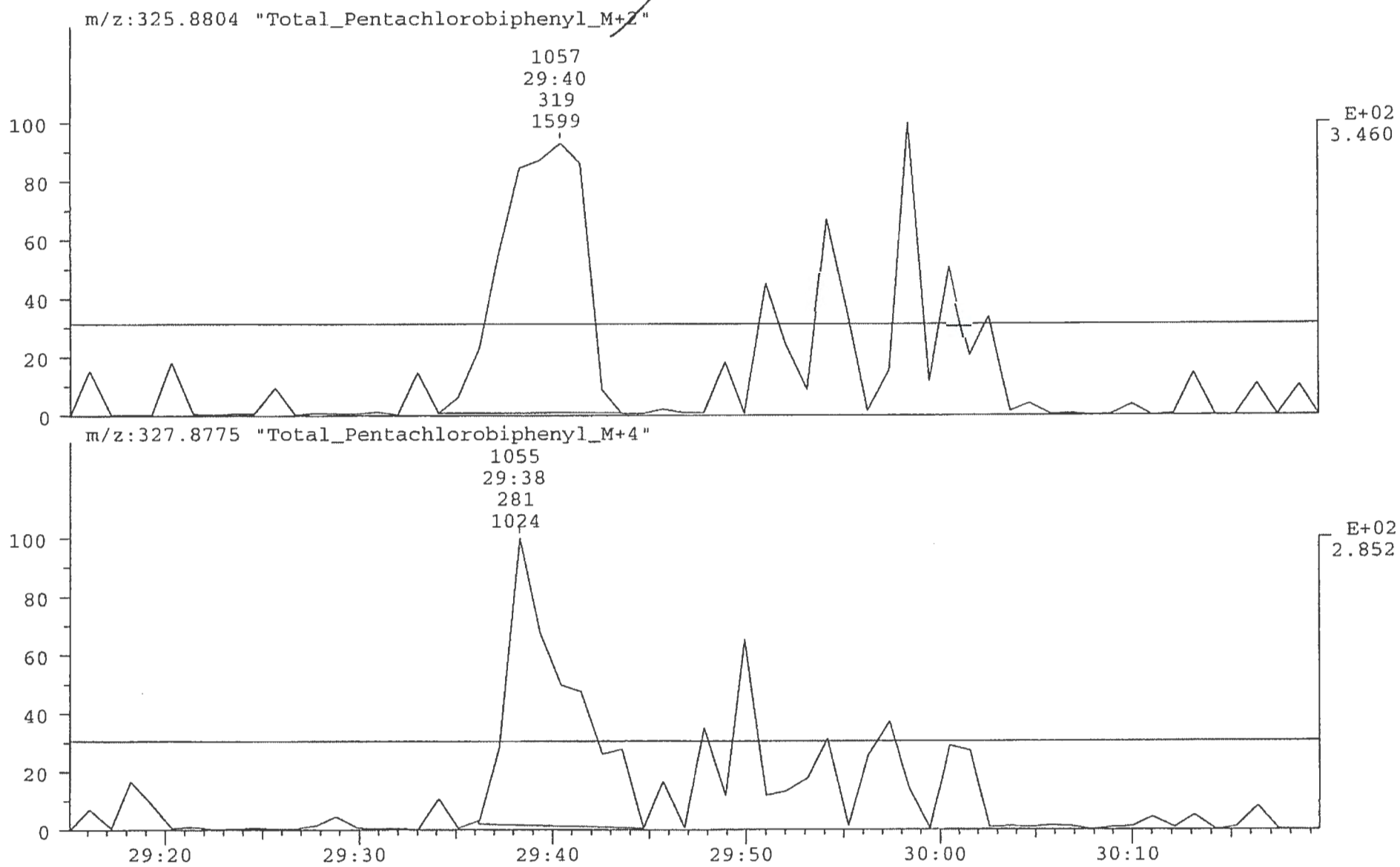
```
CHRO:  apj8alab                                12-Oct-07  Elapse:  40:50      1687
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                 Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC     Vial 10
Peak:  100.00  ppm      Label wndw:   1607 > 1767         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   848 > 908            Masses:  181 > 510
Area:  5, 1.00, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

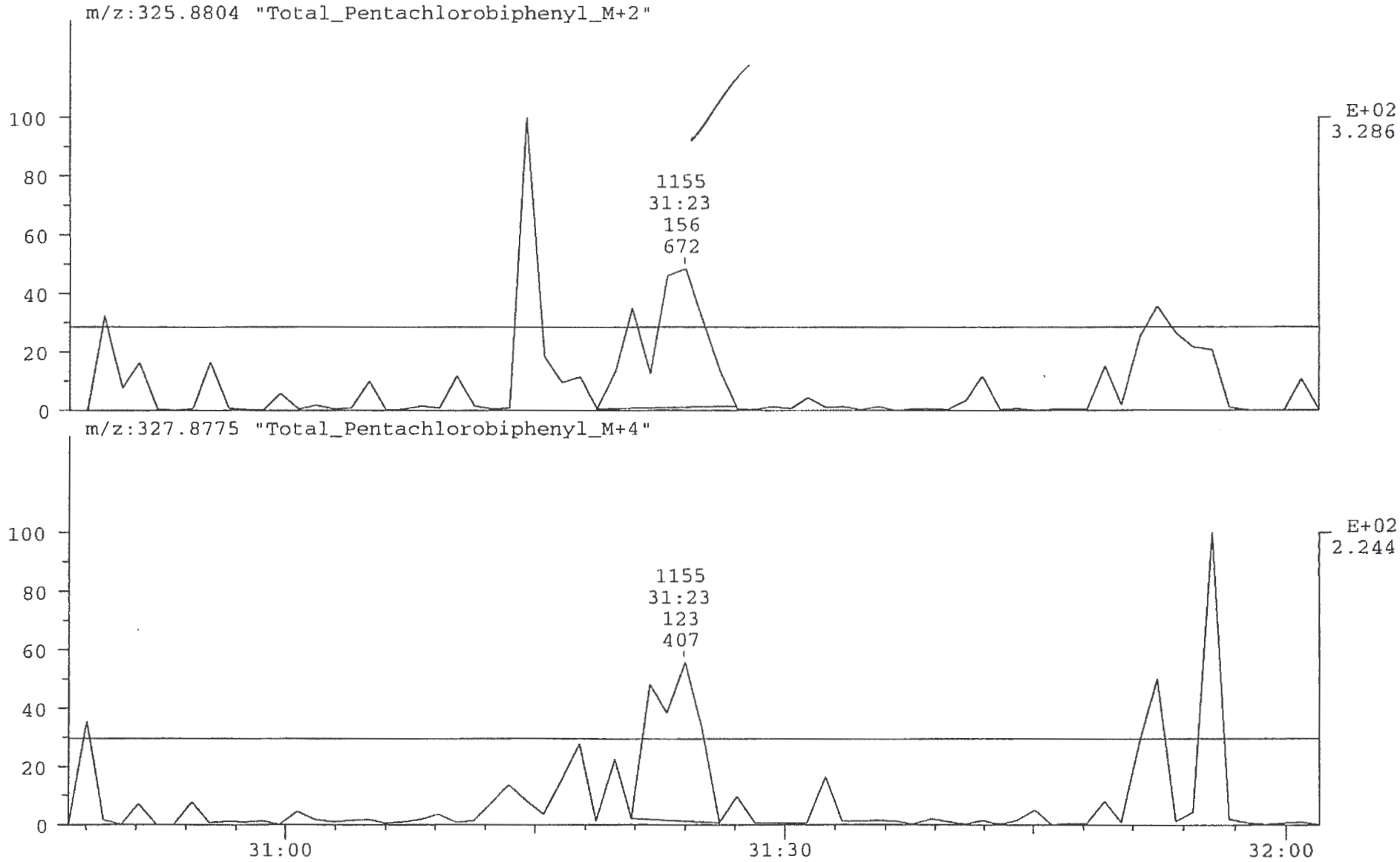


CHRO: apj8alab 12-Oct-07 Elapse: 26:27.2 874
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 1033 > 1094 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

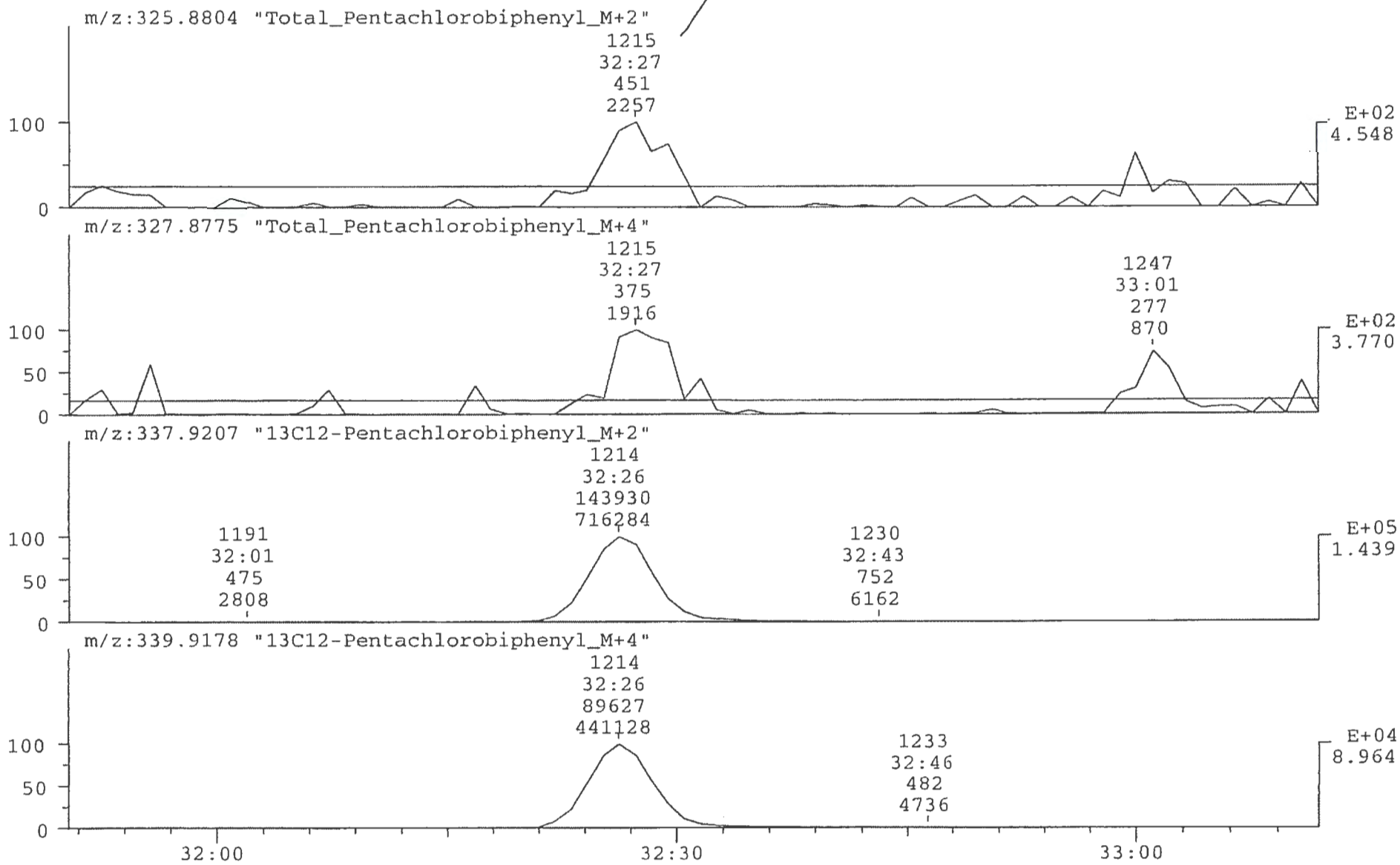


2976

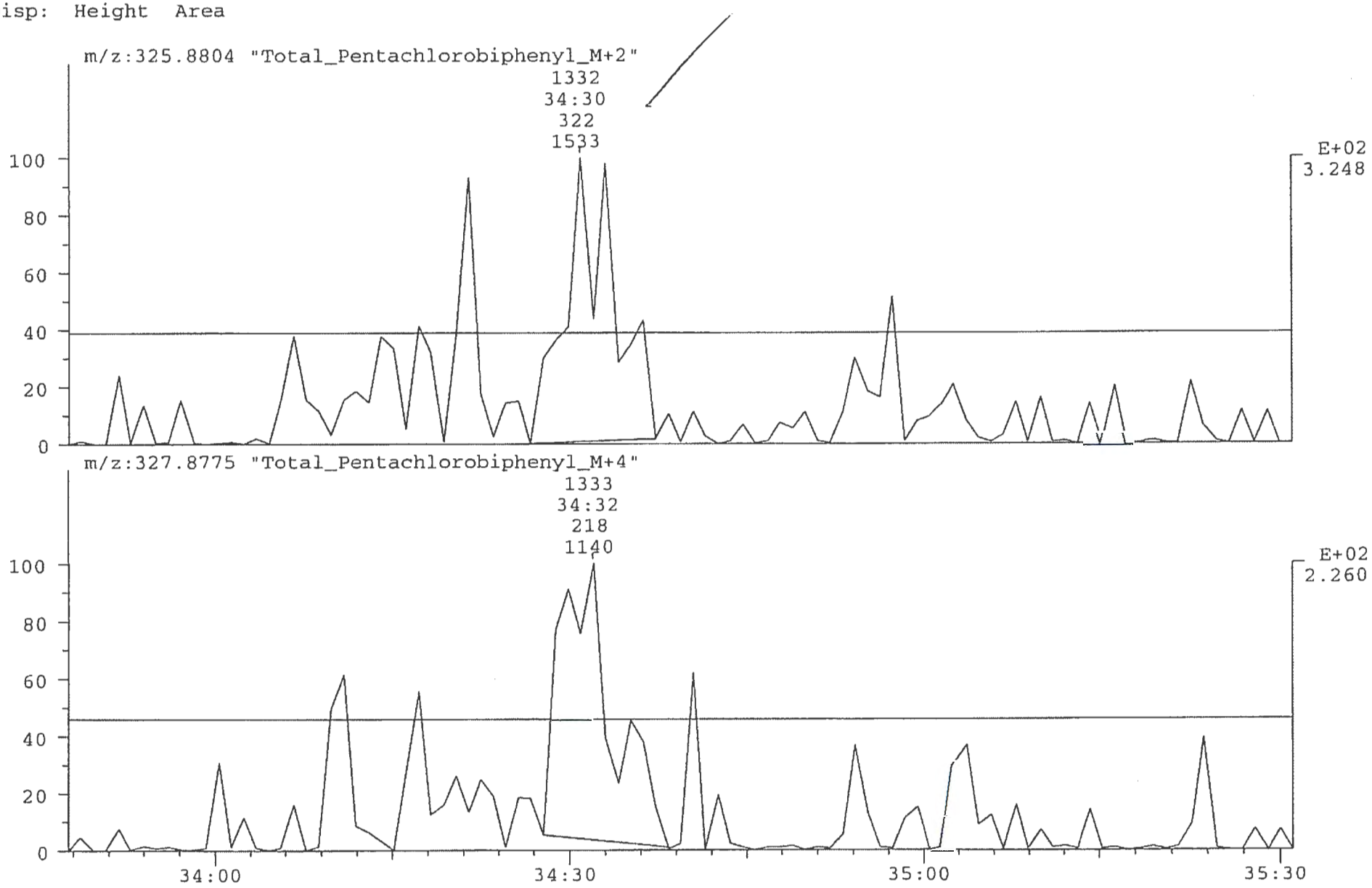
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8alalaa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1120 > 1191          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



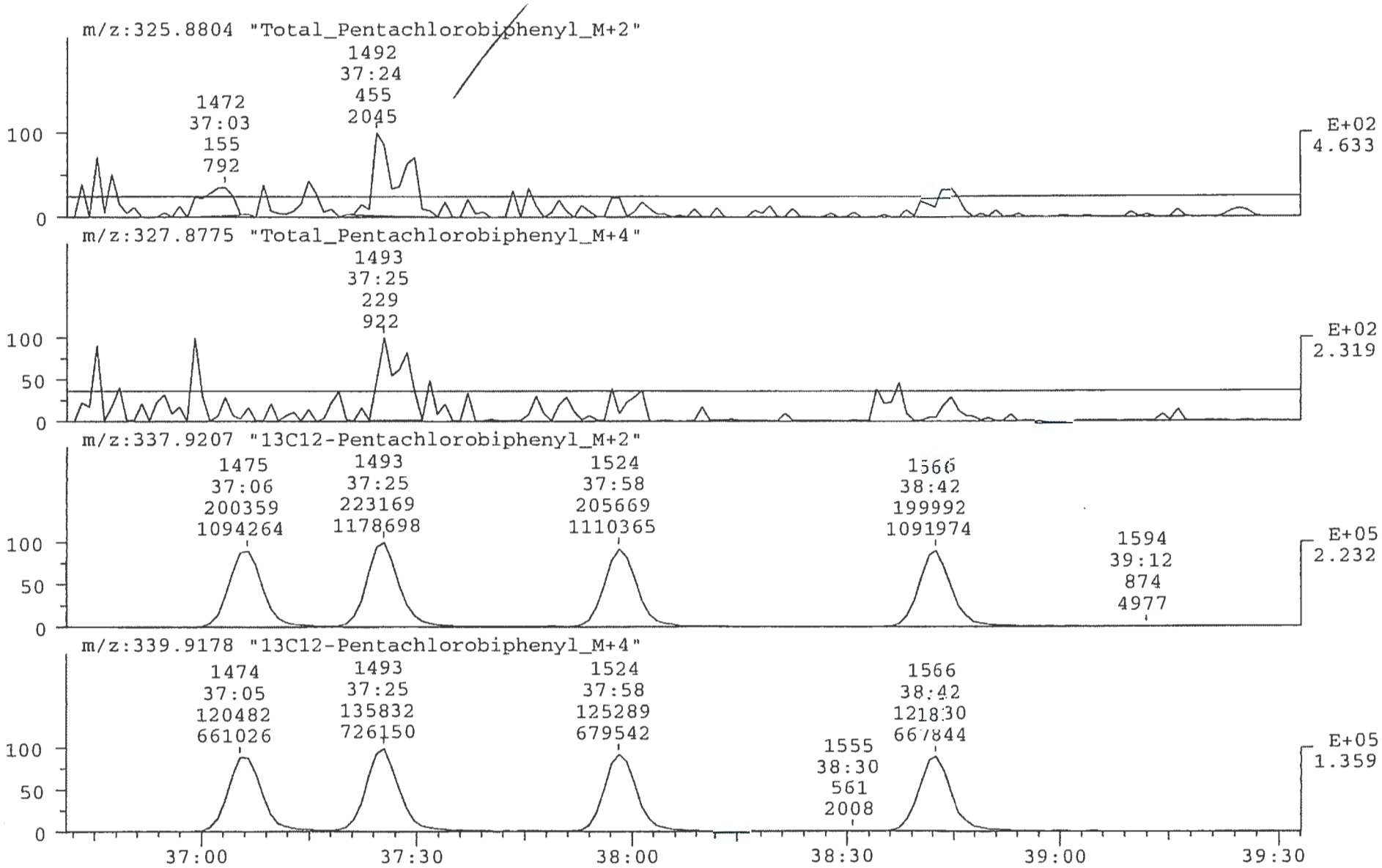
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC      Vial  10
Peak:  100.00  ppm      Label wndw:   1180 > 1257          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1291 > 1389          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

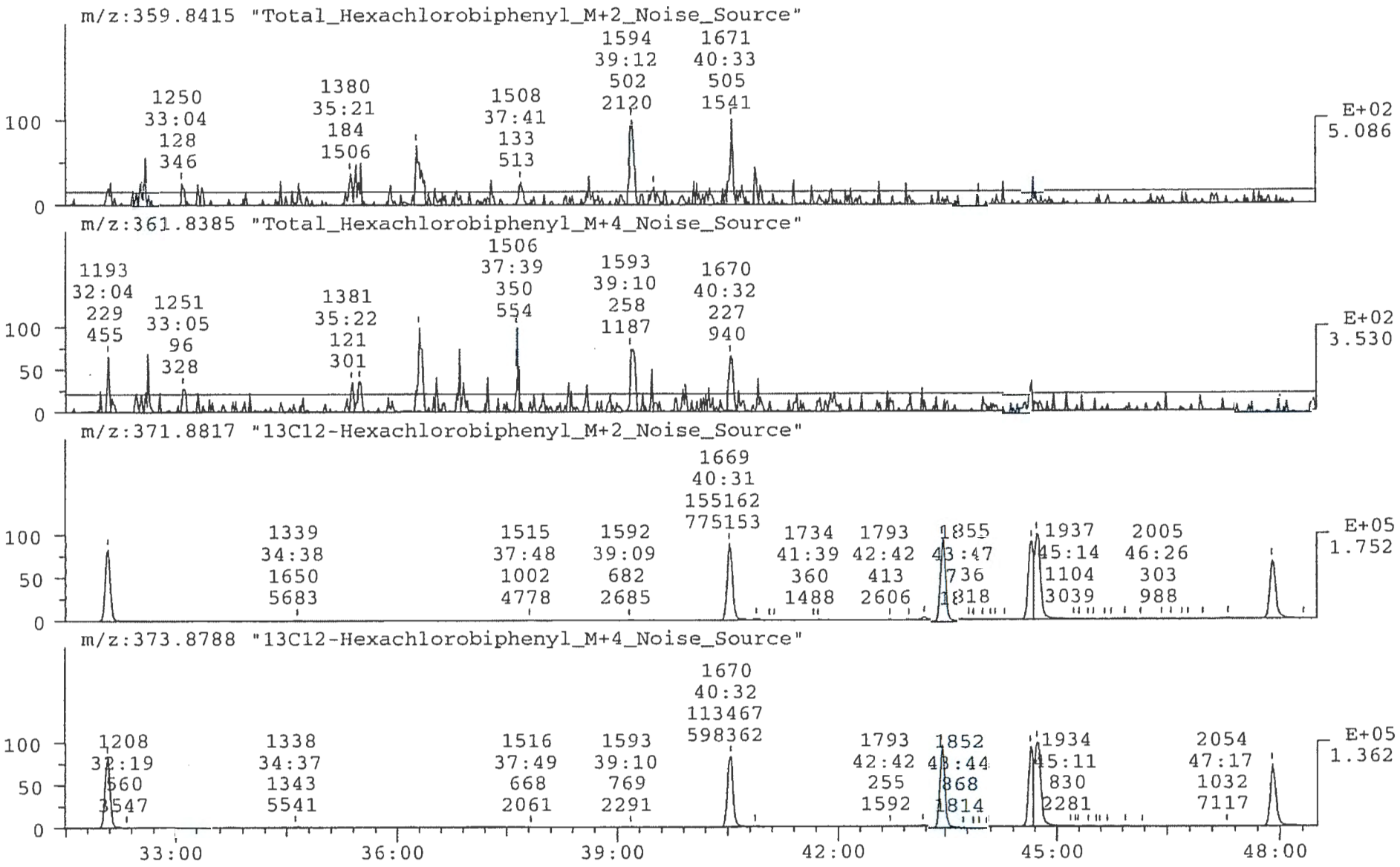


CHRO: apj8alab 12-Oct-07 Elapse: 26:27.2 874
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 1451 > 1614 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area

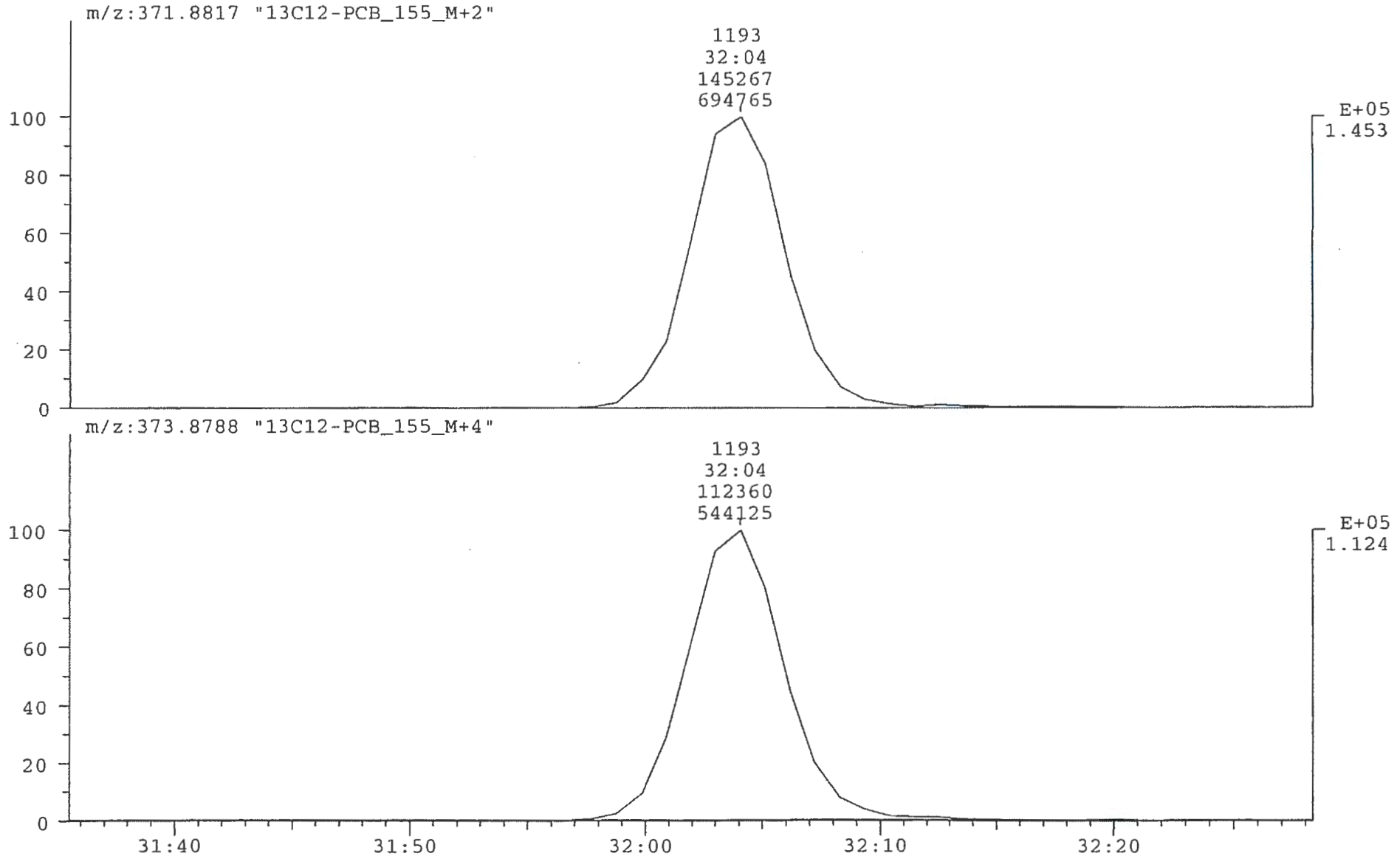


2980

CHRO: apj8alab 12-Oct-07 Elapse: 39:59 1639
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 1160 > 2122 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

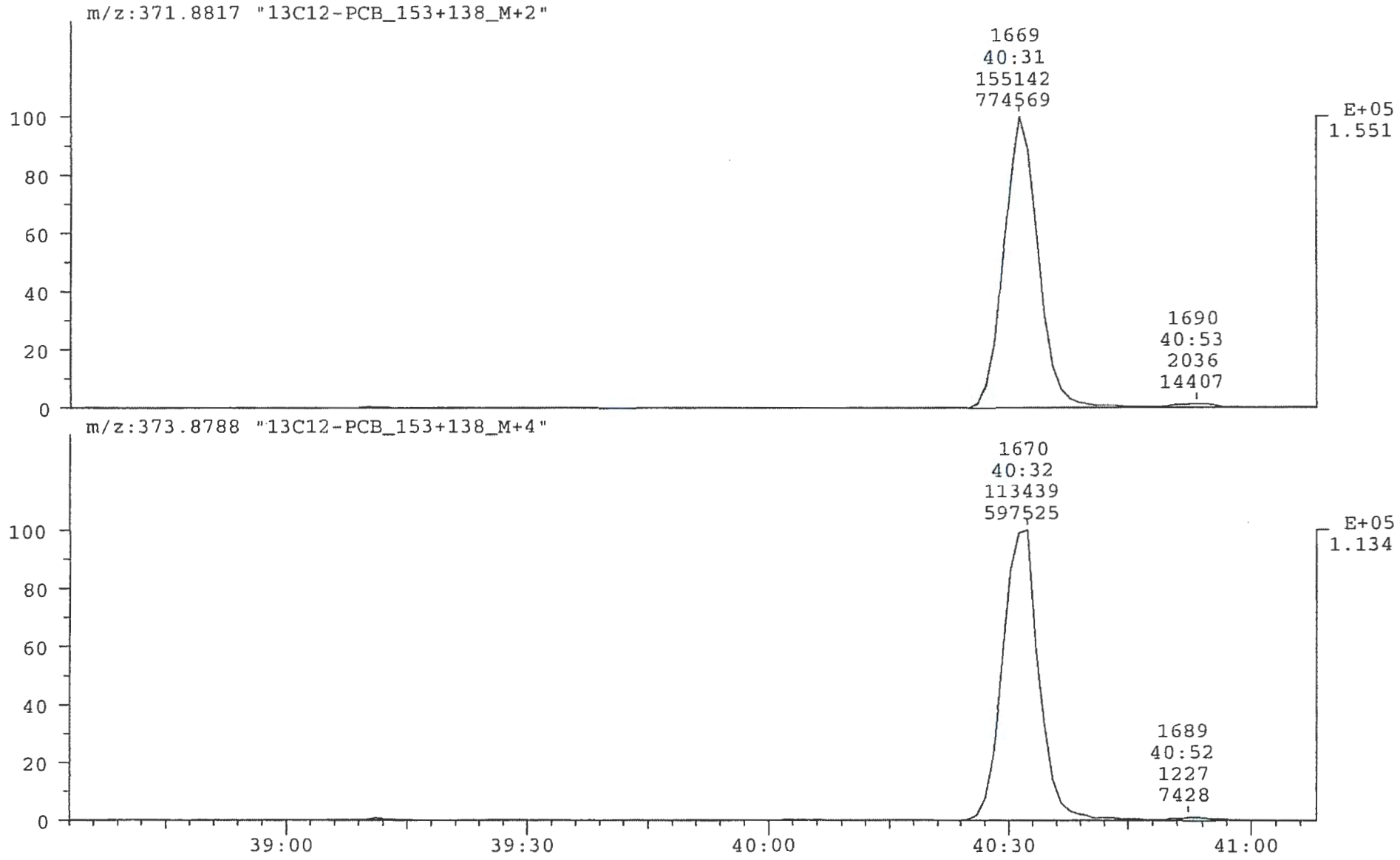


```
CHRO:  apj8alab                              12-Oct-07   Elapse:  32:01      1191
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B            Inlet :  GC     Vial 10
Peak:  100.00  ppm      Label wndw:   1166 > 1216        Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```

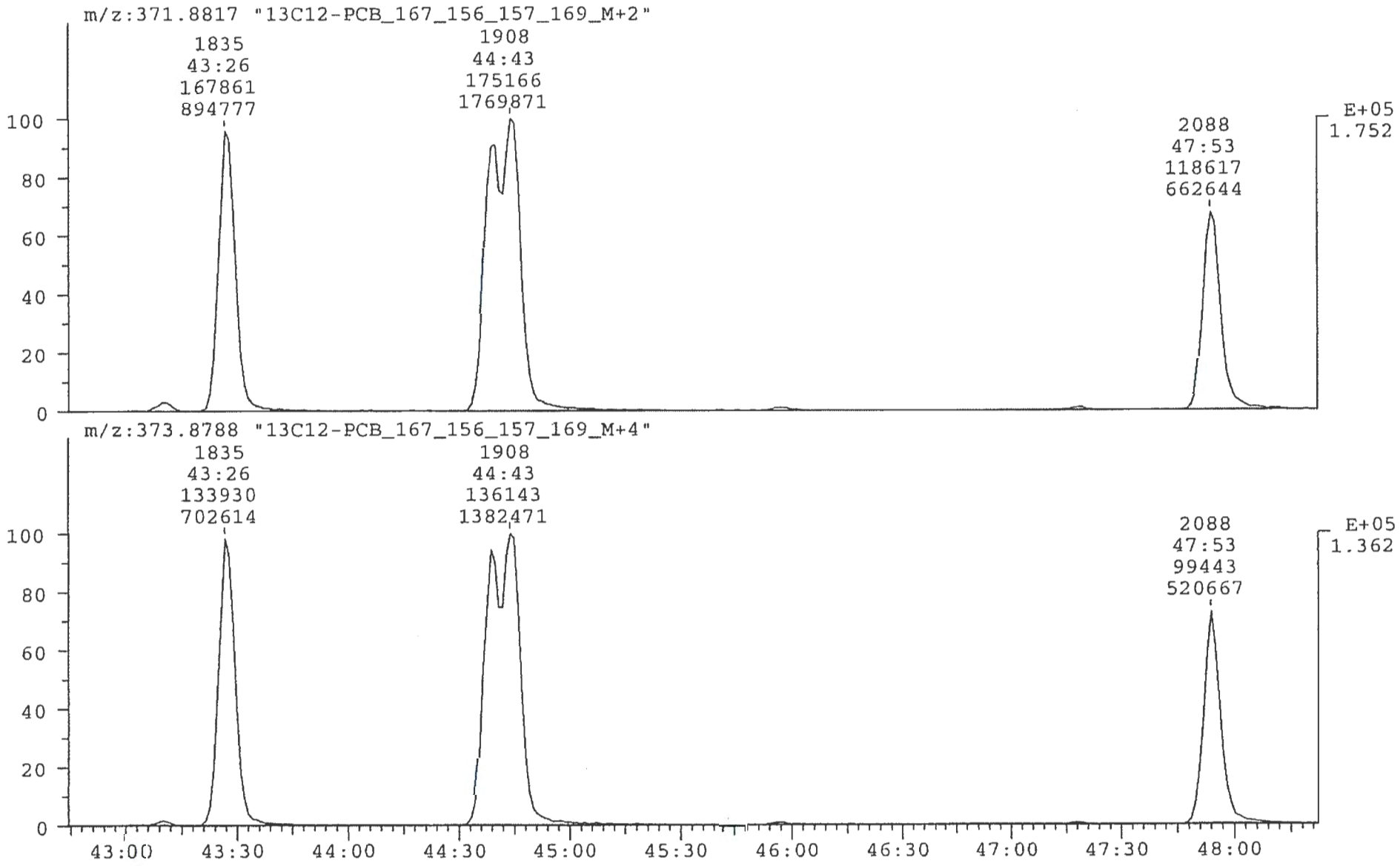


2982

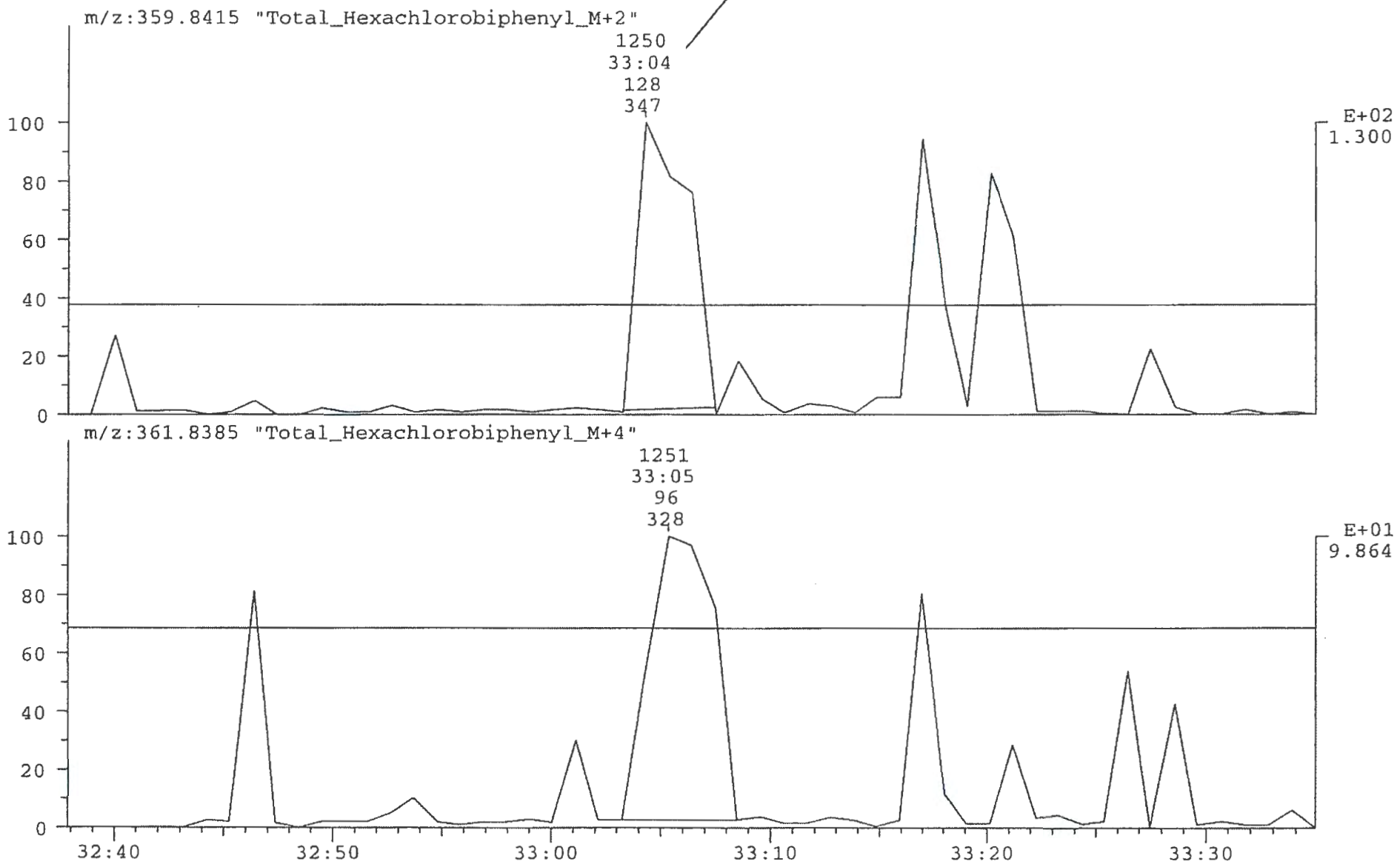
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  39:50      1630
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1557 > 1704          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



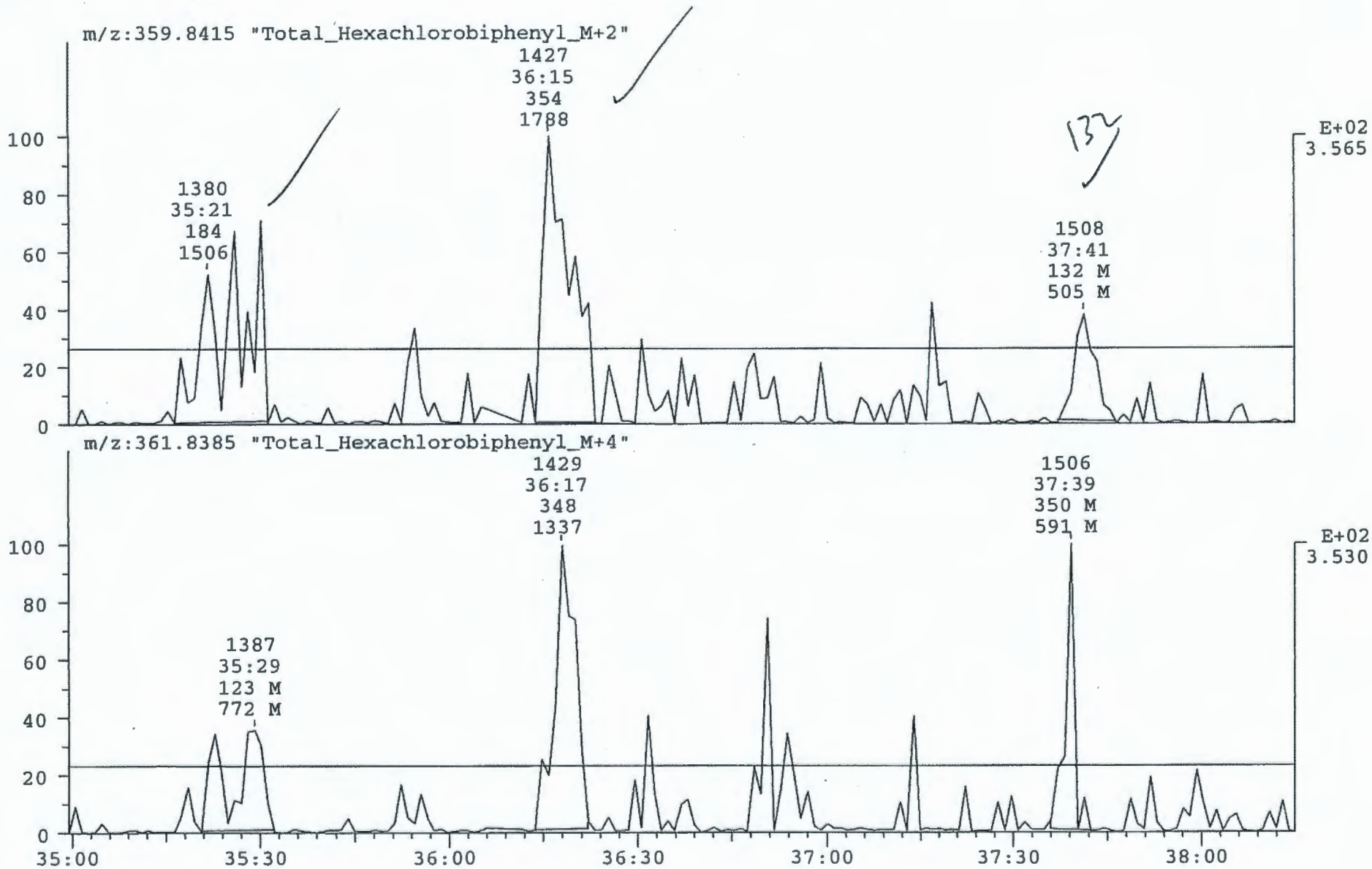
```
CHRO:  apj8alab                                12-Oct-07  Elapse:  45:38      1960
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                 Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1795 > 2115         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 8               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1225 > 1279          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



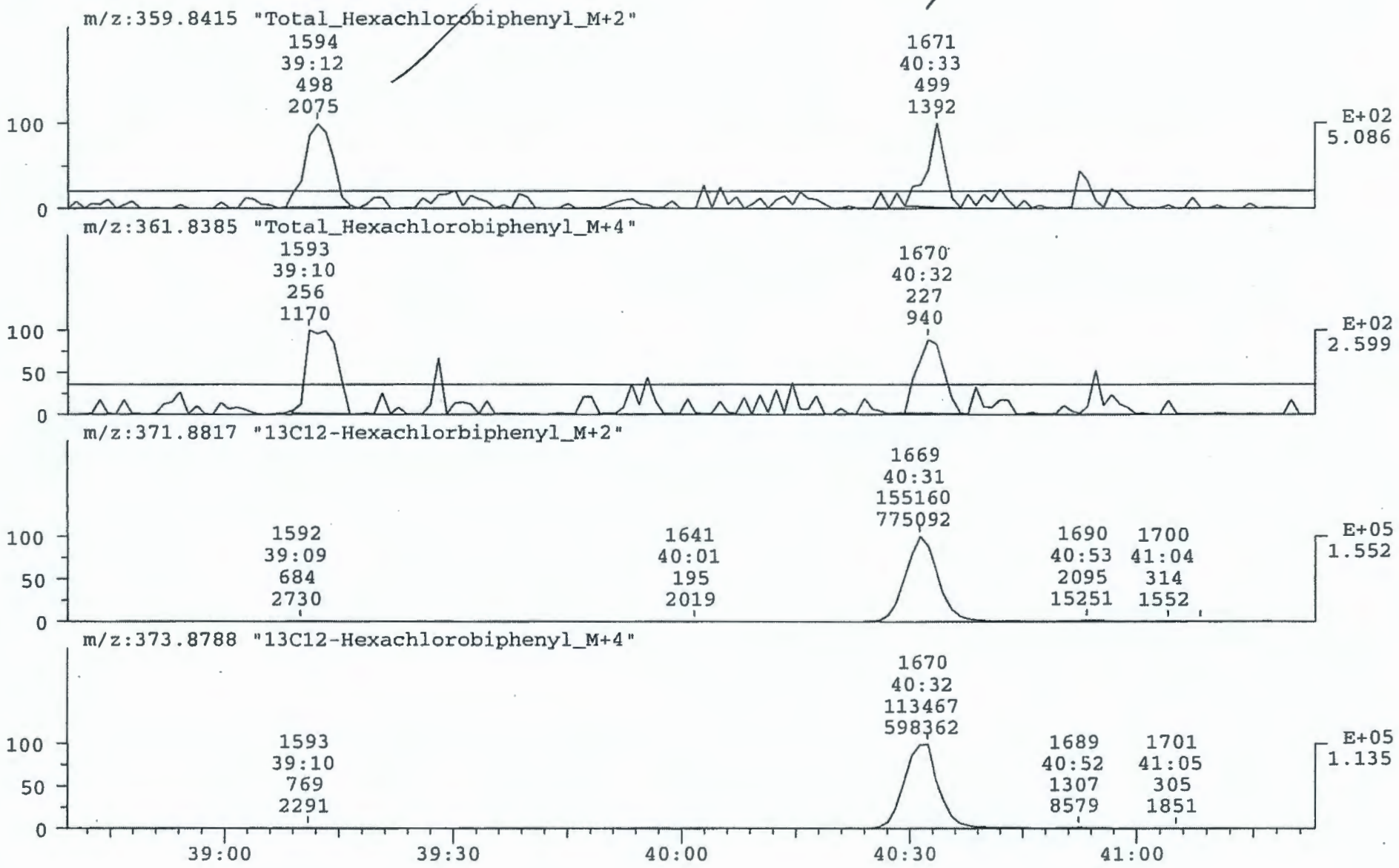
CHRO: apj8alab 12-Oct-07 Elapse: 26:27.2 874
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 1359 > 1540 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



132

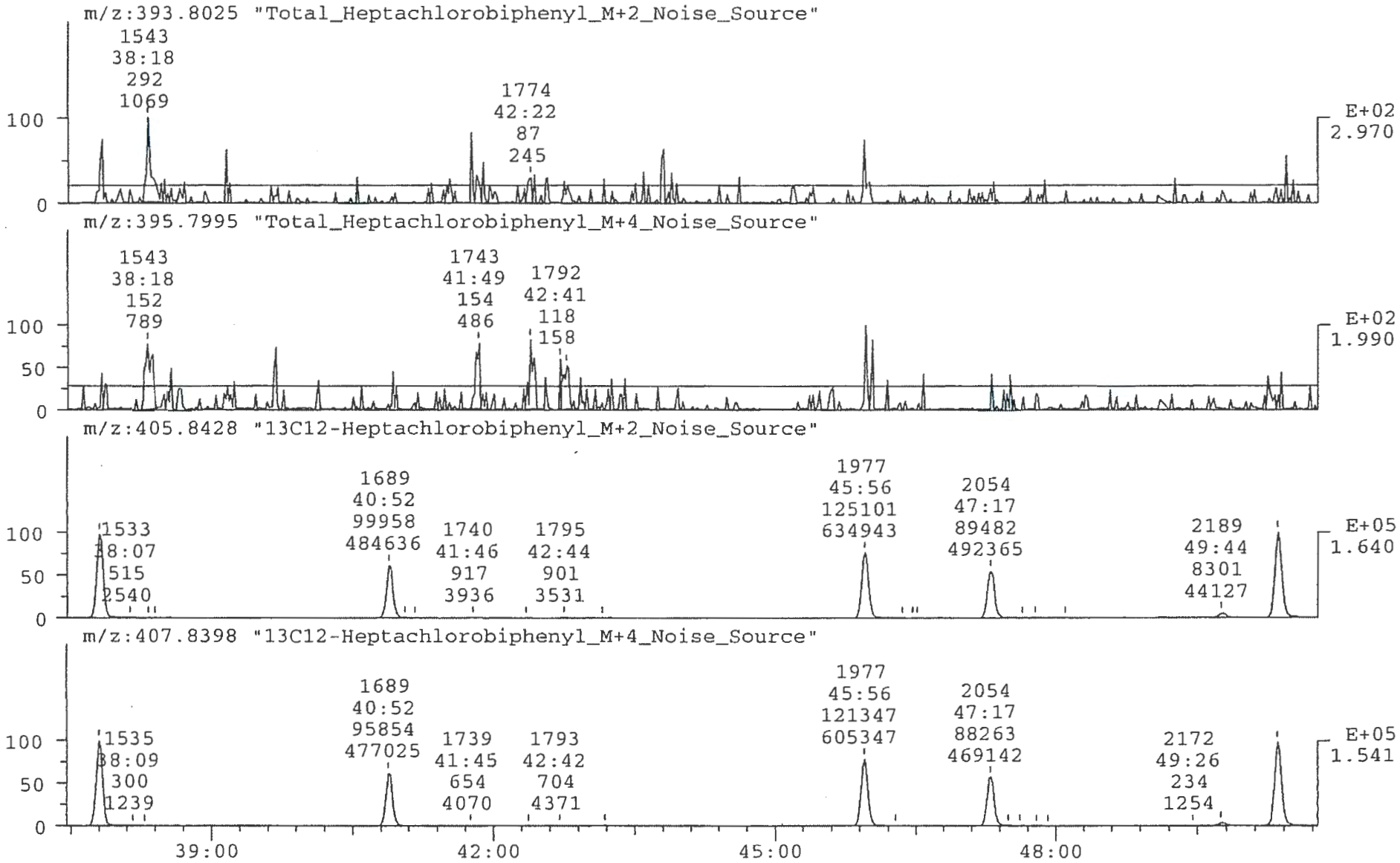
2986

CHRO: apj8alab 12-Oct-07 Elapse: 26:27.2 874
Samp: Vial 10 WO=j8alalaa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=mld/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 1563 > 1718 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



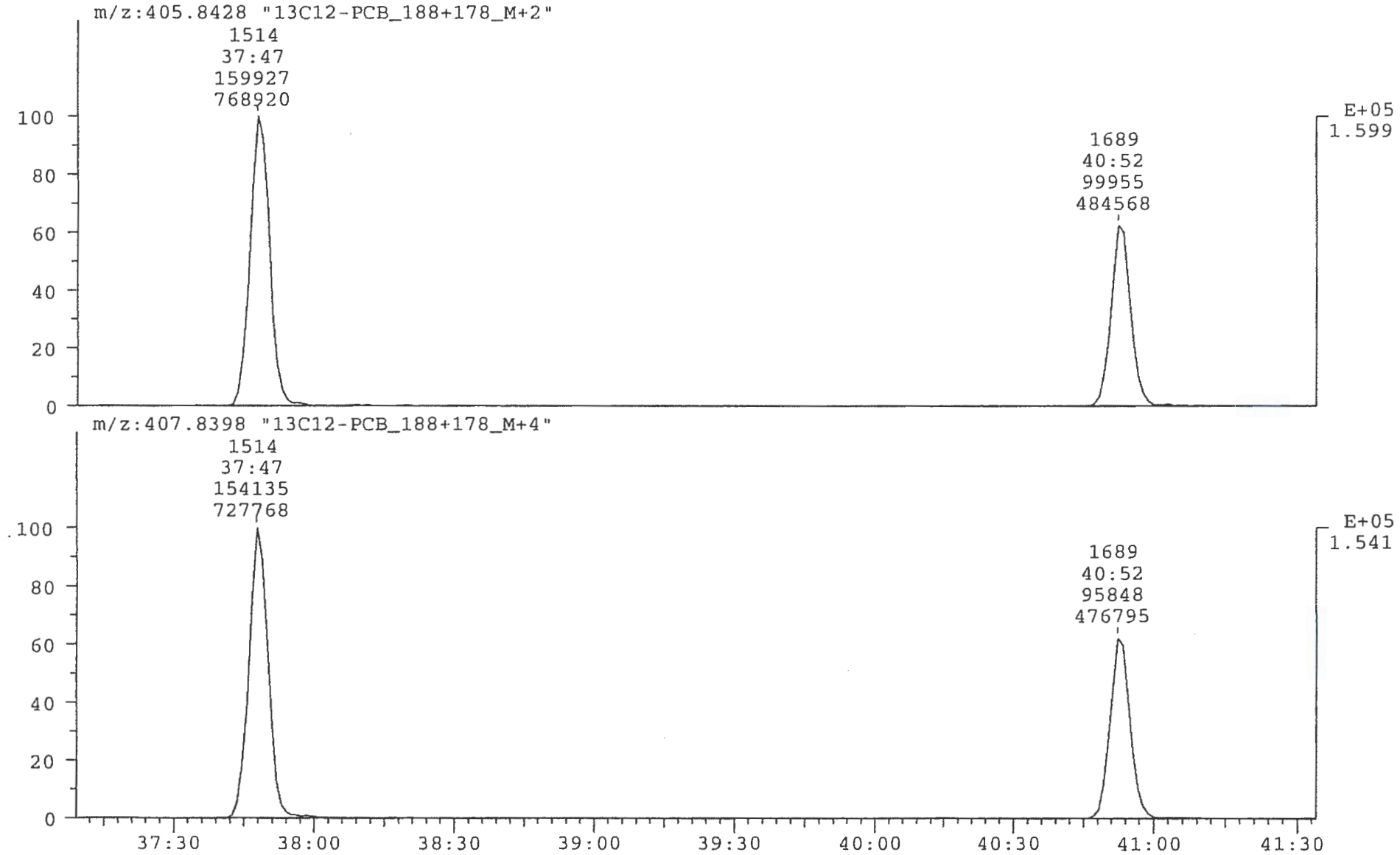
2987

CHRO: apj8alab 12-Oct-07 Elapse: 44:05 1872
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 1495 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

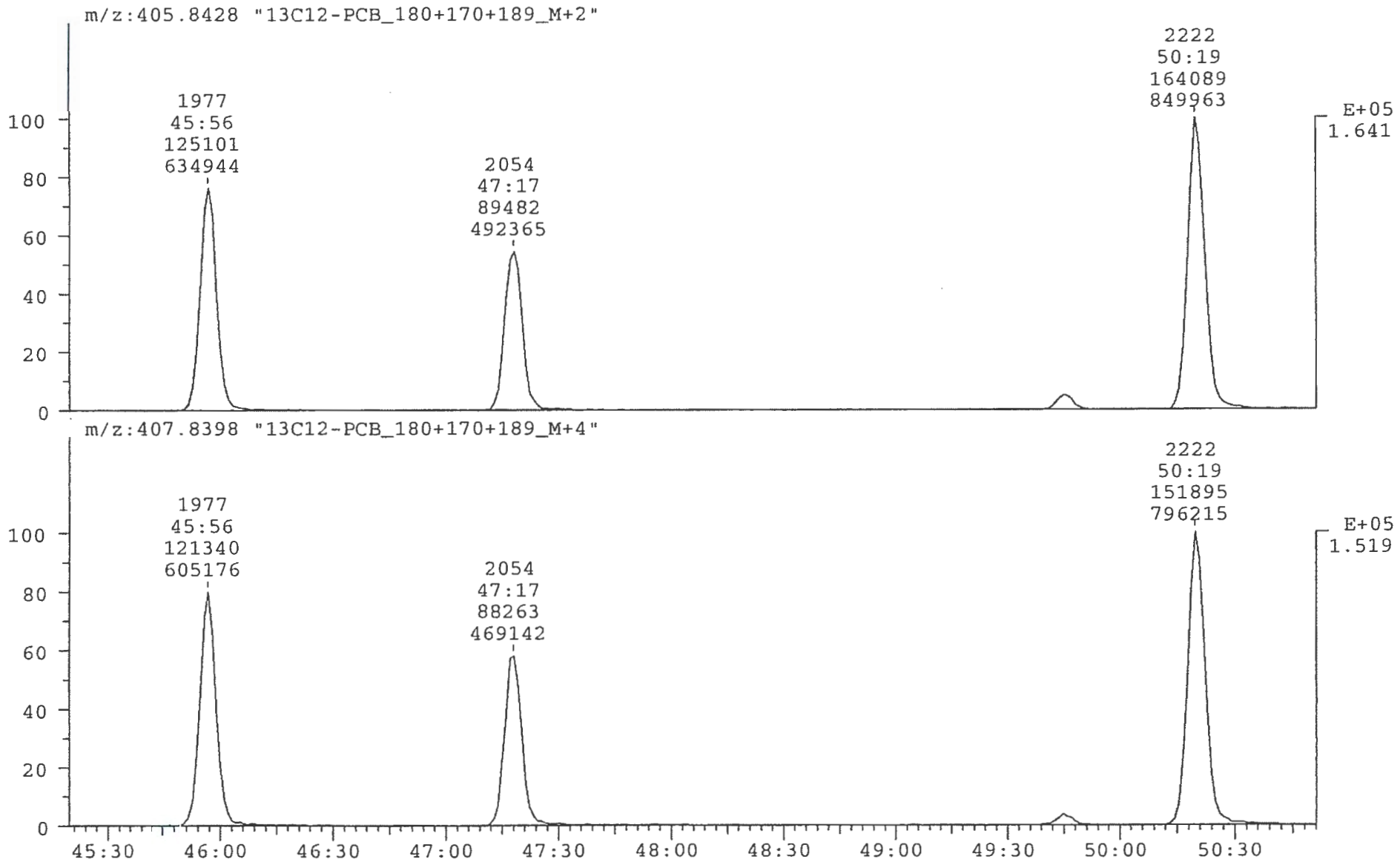


2988

```
CHRO:  apj8alab                                12-Oct-07   Elapse:  39:21      1603
Samp:  Vial 10 WO=j8alalaa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1478 > 1728          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

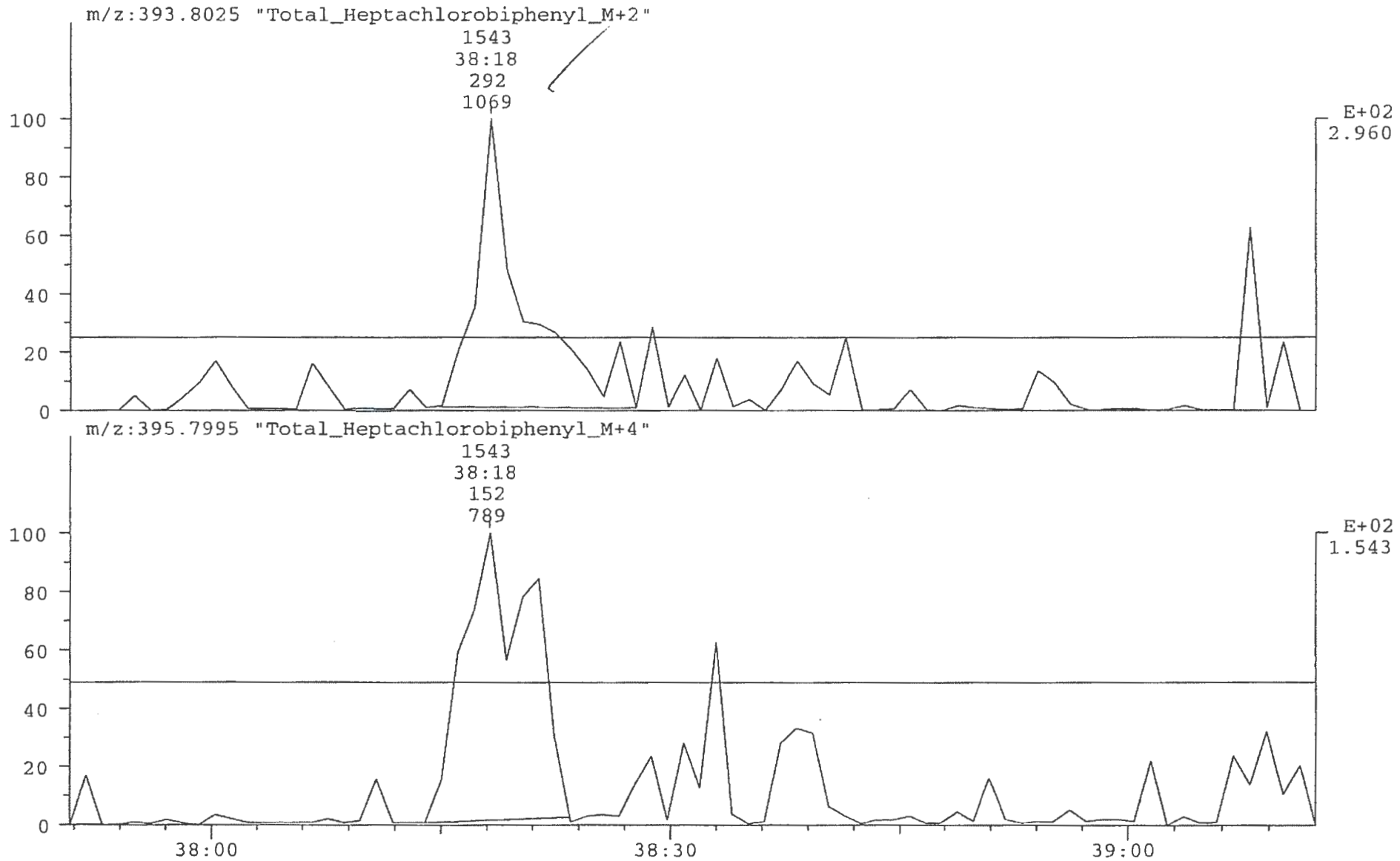


CHRO: apj8alab 12-Oct-07 Elapse: 48:08 2102
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 1942 > 2252 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



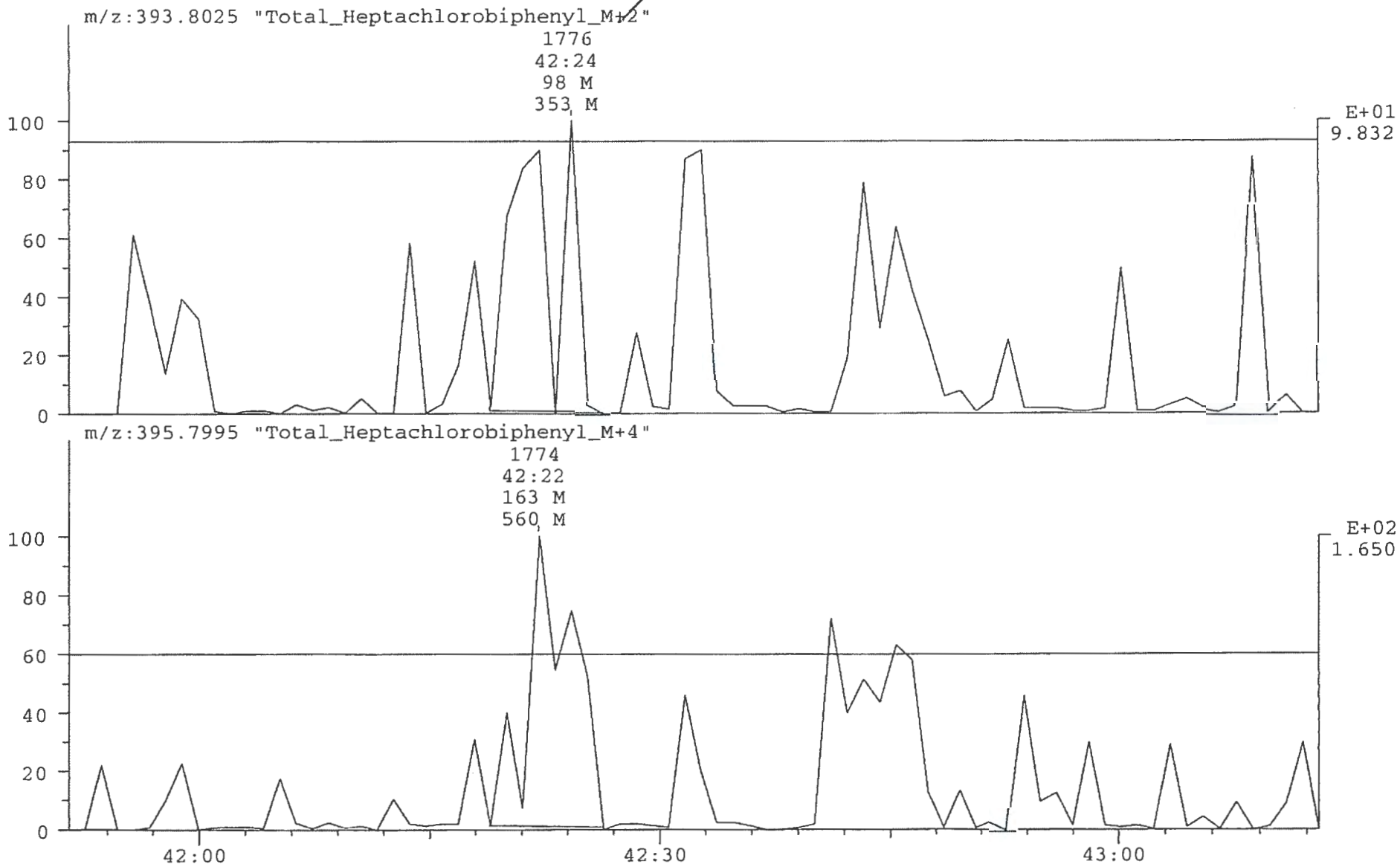
2990

```
CHRO:  apj8alab                                12-Oct-07   Elapse:  26:27.2      874
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35    2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1517 > 1594          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



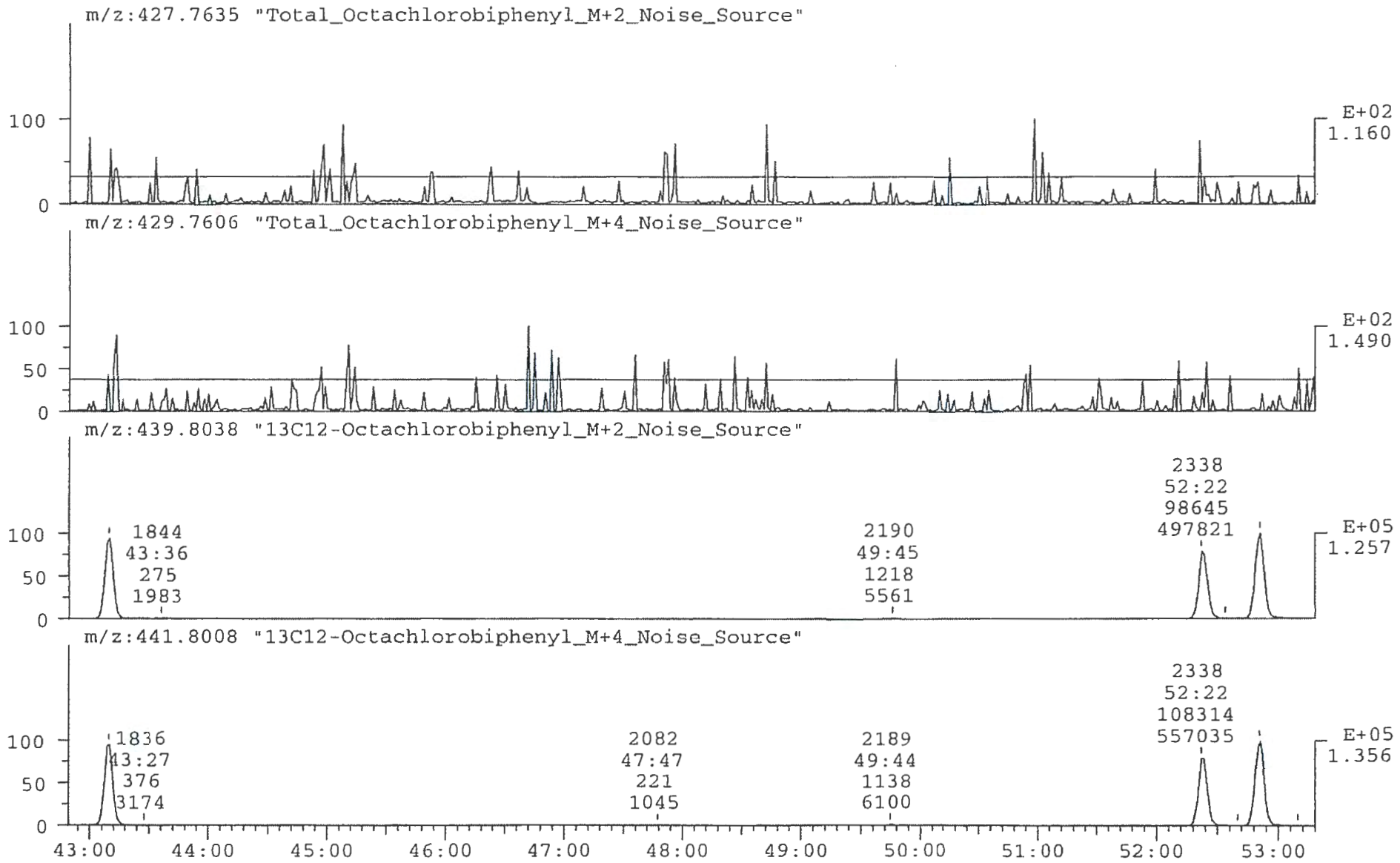
2991

```
CHRO:  apj8alab                                12-Oct-07   Elapse:  42:22      1774
Samp:  Vial 10 WO=j8alalaa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=mld/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1745 > 1822          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

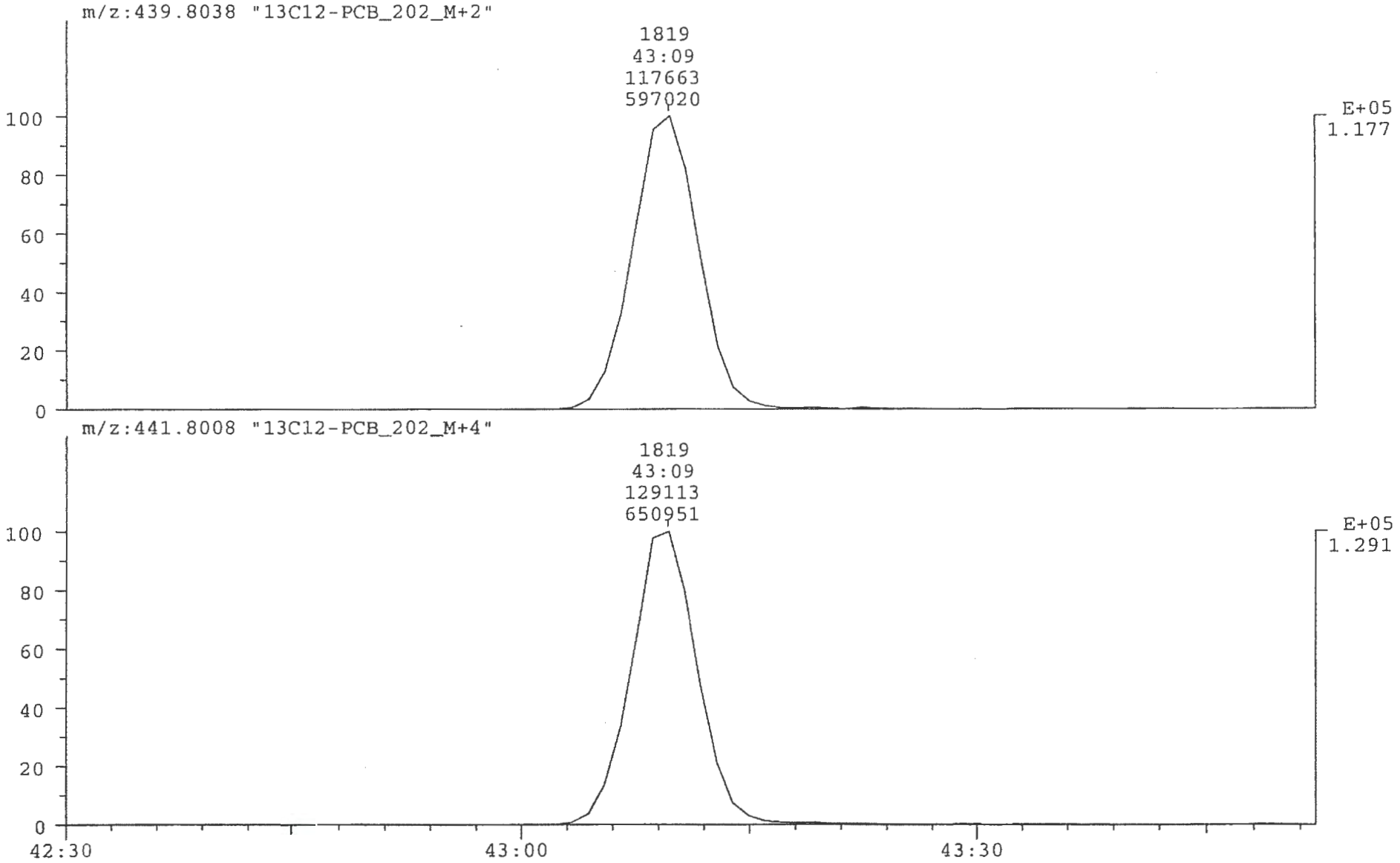


2992

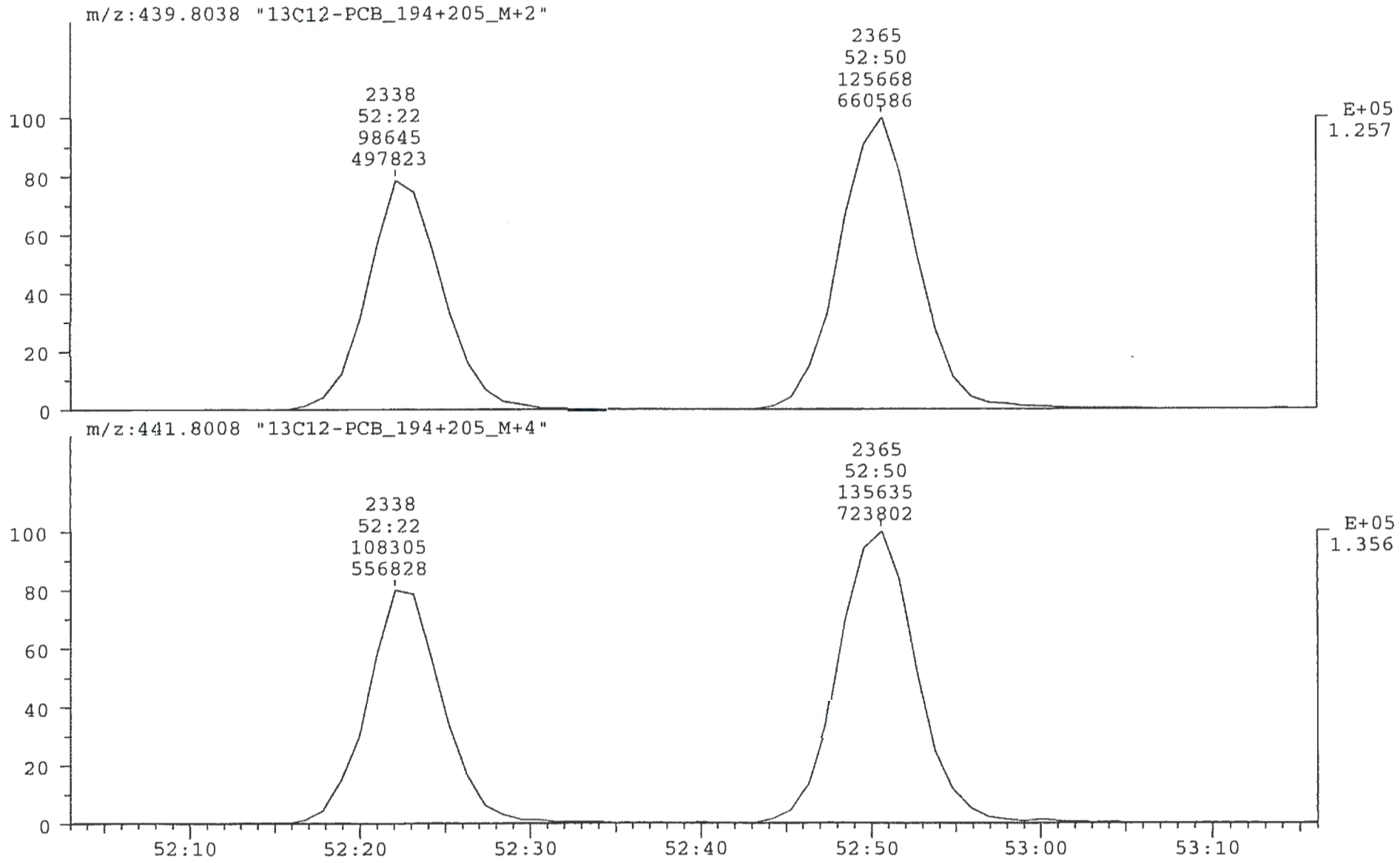
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  48:03      2097
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1799 > 2391          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



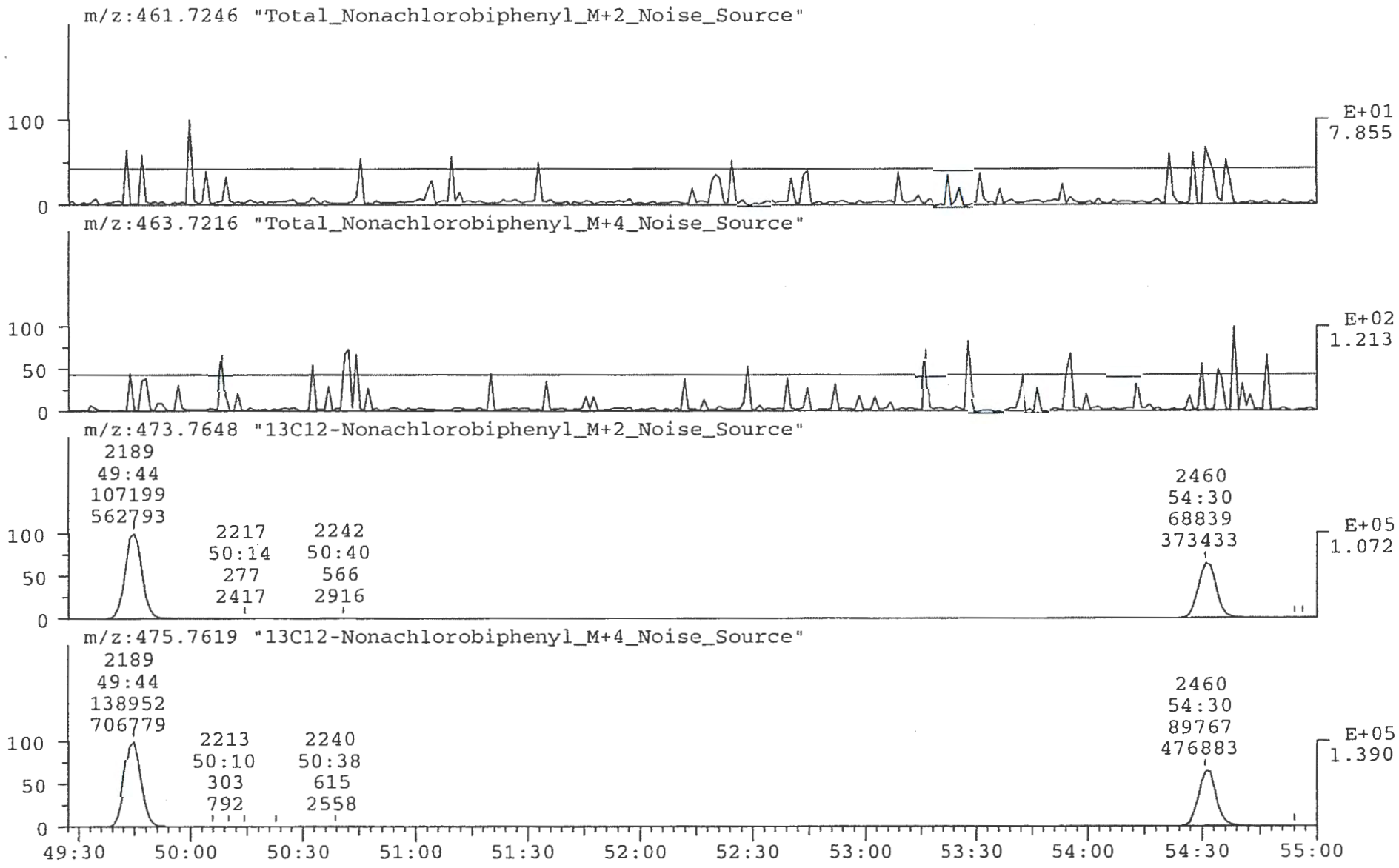
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  43:07      1817
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial 10
Peak:  100.00  ppm      Label wndw:   1781 > 1859          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: apj8alab 12-Oct-07 Elapse: 52:38 2354
Samp: Vial 10 WO=j8alalaa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=mld/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 2320 > 2389 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

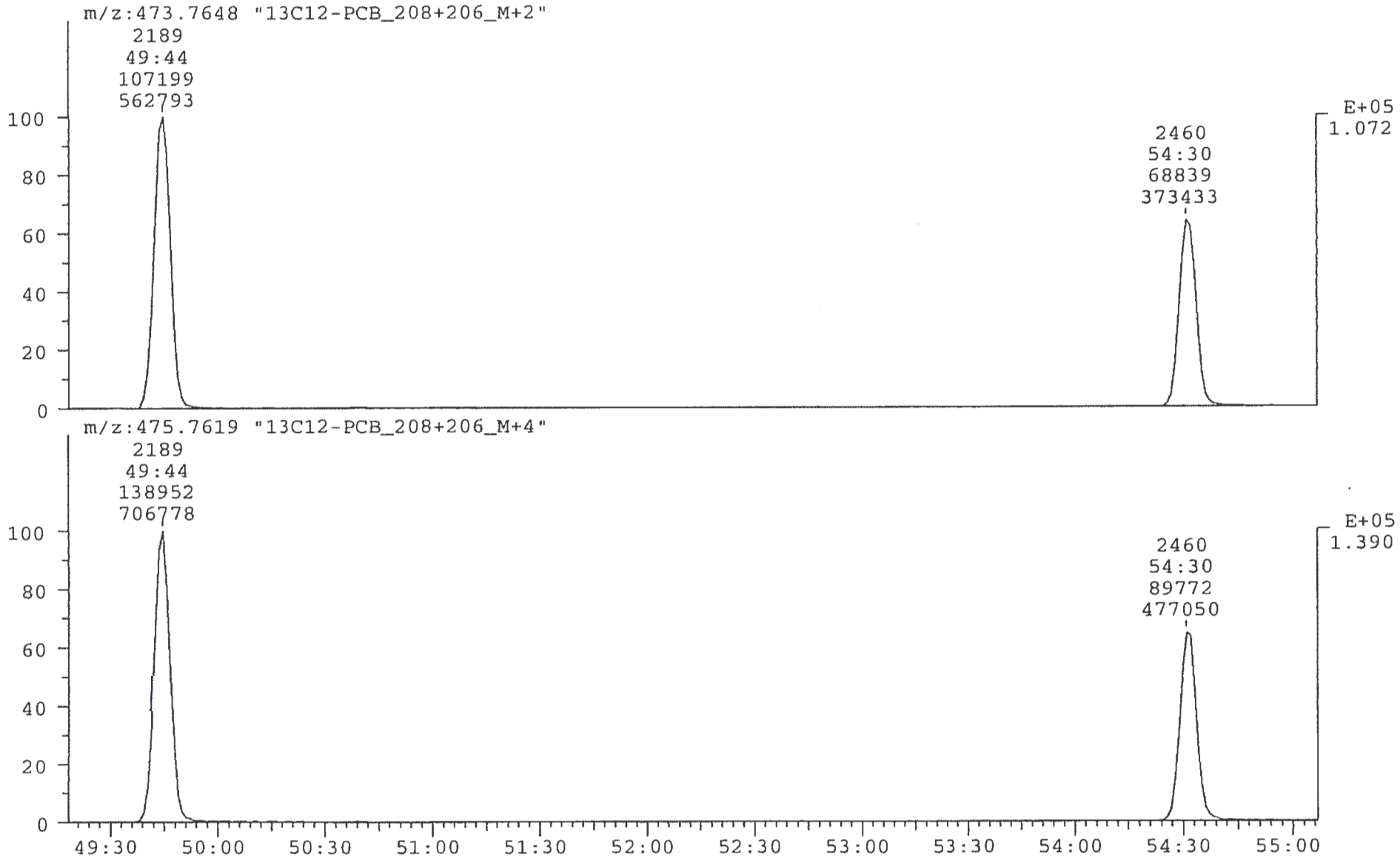


CHRO: apj8alab 12-Oct-07 Elapse: 52:12 2329
Samp: Vial 10 WO=j8alalaa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 2172 > 2488 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

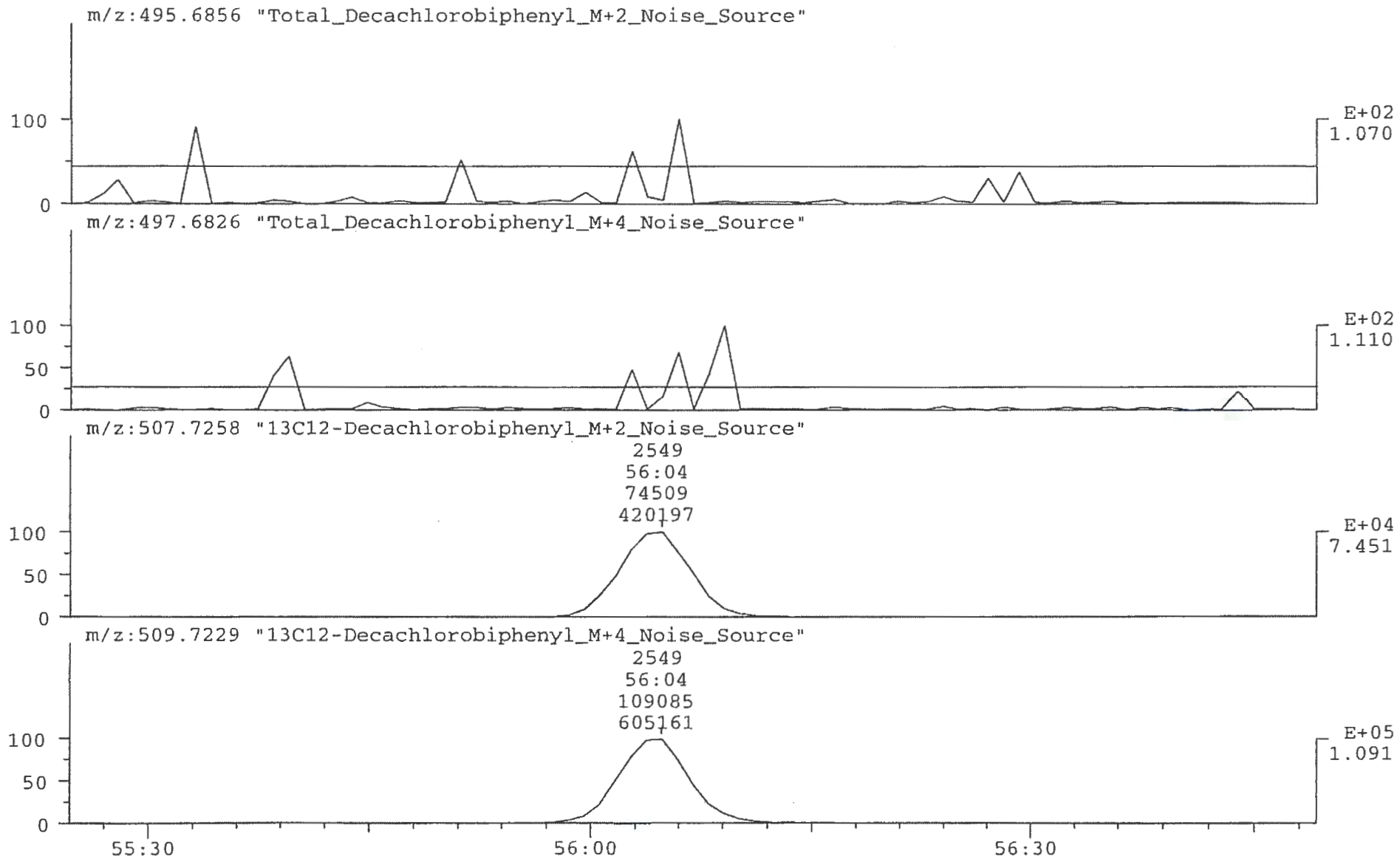


2996

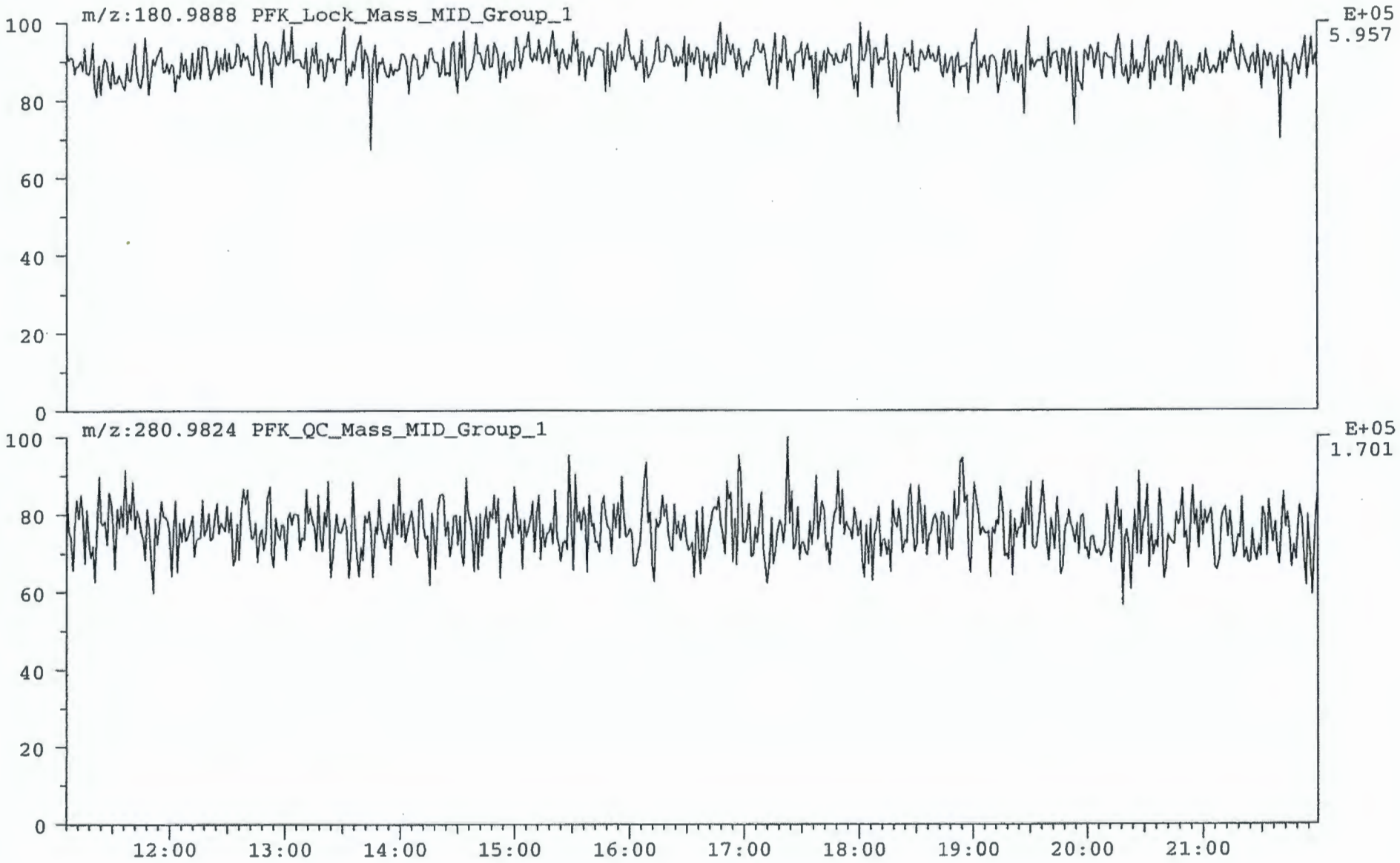
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  52:12      2329
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial 10
Peak:  100.00  ppm      Label wndw:   2164 > 2494          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



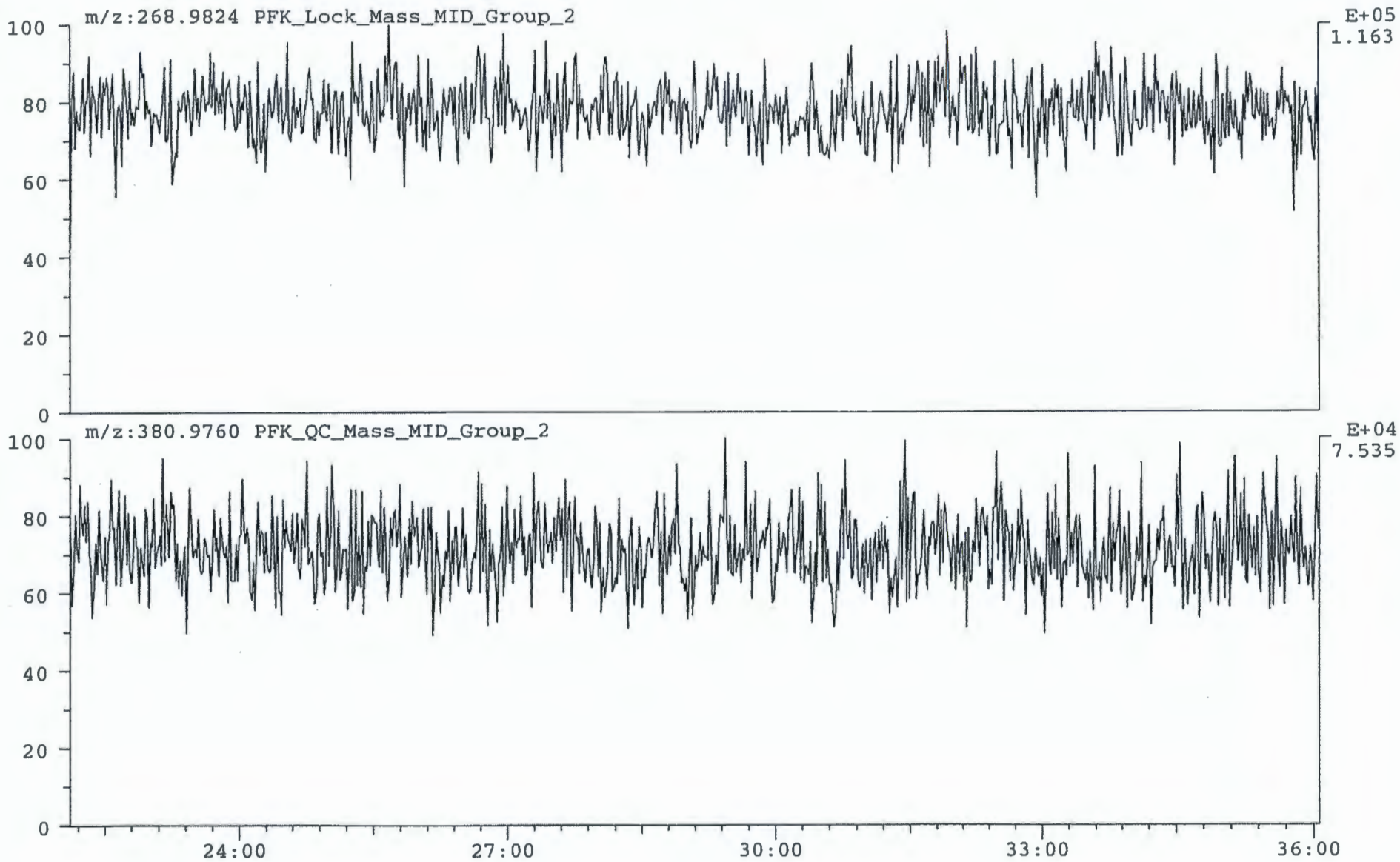
```
CHRO:  apj8alab                                12-Oct-07   Elapse:  56:12      2556
Samp:  Vial 10 WO=j8alalaa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial 10
Peak:  100.00  ppm      Label wndw:   2511 > 2591          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



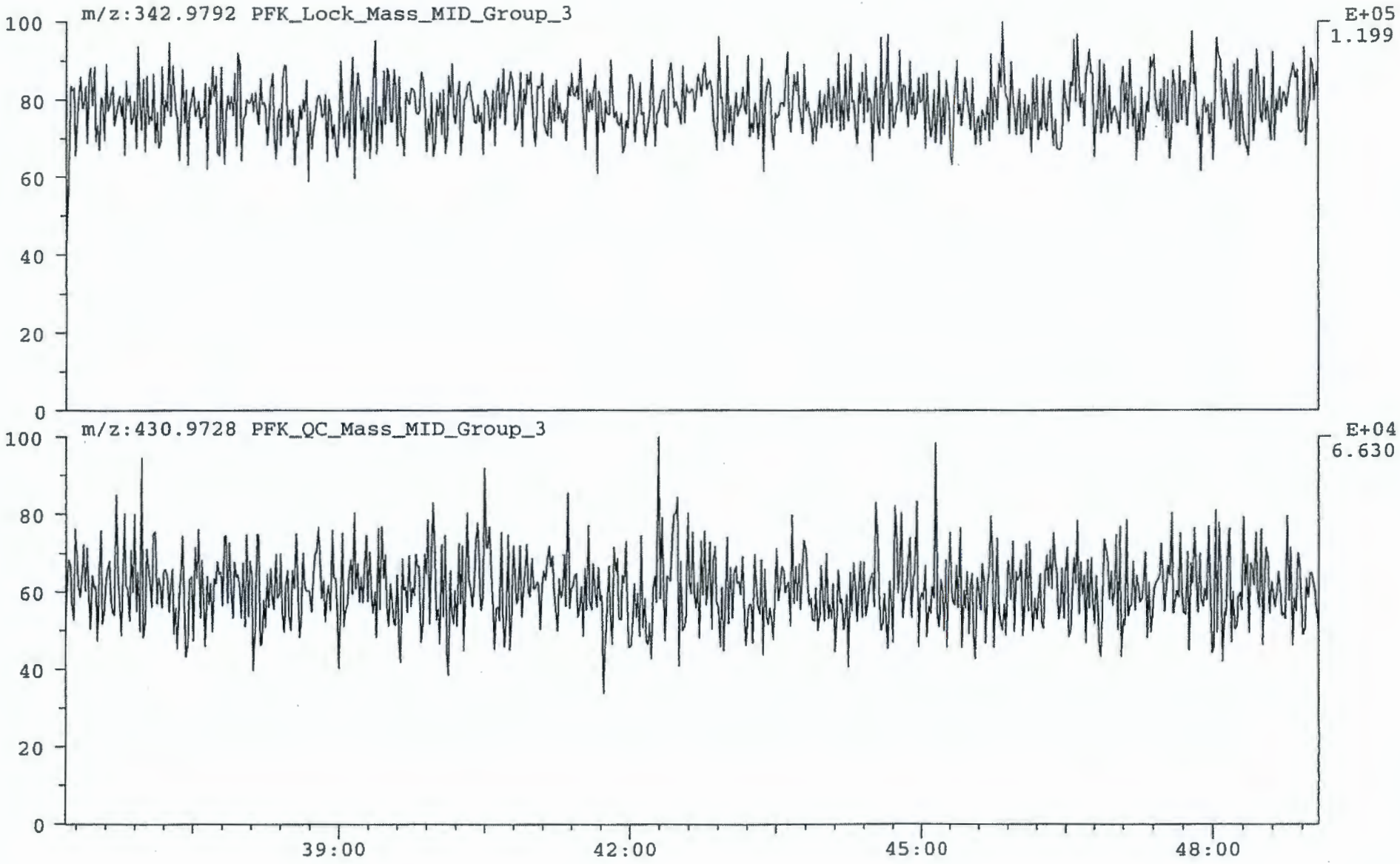
CHRO: apj8alab 12-Oct-07 Elapse: 56:12 2556
Samp: Vial 10 WO=j8alalaa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 6 > 624 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



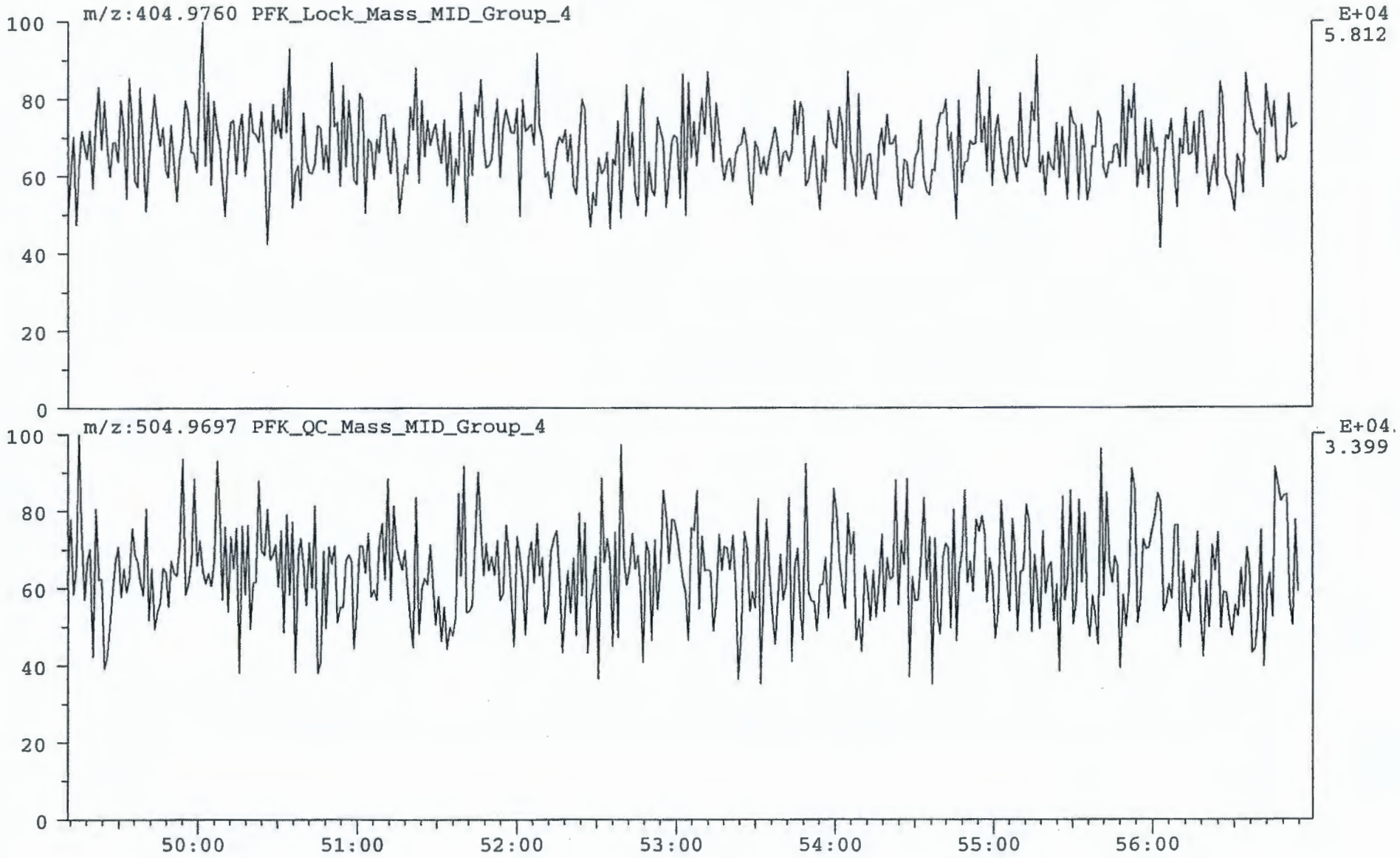
```
CHRO:  apj8alab                                12-Oct-07  Elapse:  56:12      2556
Samp:  Vial 10 WO=j8ala1aa Meth=IE5 Dil=1                 Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B             Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   627 > 1420          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  0, 0.0
Disp:  Height  Area
```



```
CHRO:  apj8alab                                12-Oct-07   Elapse:  56:12      2556
Samp:  Vial 10 WO=j8alalaa Meth=IE5 Dil=1                  Start :  14:21:35   2595
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087B              Inlet :  GC     Vial  10
Peak:  100.00  ppm      Label wndw:   1423 > 2154          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```



CHRO: apj8alab 12-Oct-07 Elapse: 56:12 2556
Samp: Vial 10 WO=j8ala1aa Meth=IE5 Dil=1 Start : 14:21:35 2595
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087B Inlet : GC Vial 10
Peak: 100.00 ppm Label wndw: 2157 > 2600 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: apj8alab
Study: 7278087 (10.0g)
Sample: WO=j8ala1aa Meth=IE5 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: H7J050000-087B
Comments: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Injected volume: 2.00
Sample from Vial 10
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 1 of list 071012
ICL procedure: sleep7x
MID procedure: epa1668

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:00 min	14:05 min	36:05 min	1.00 sec
# 3	36:05 min	13:00 min	49:05 min	1.00 sec
# 4	49:05 min	7:55 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	l	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	l	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode
- Purge time 1.5 min
- Purge flow 40.0 ml/min
- Gas saver is on
- Saver time 3.0 min
- Saver flow 15.0 ml/min

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1034.0919
BMASS	180.9888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.8824
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-58.0000
DRAWC	1.0000	DRAWS	-0.0050	ECORR	0.9986
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0001
EDACR	23.0000	EDACZ	-474.0000	ELEN	70.7500
EMULT	1.8800	ENS	215.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	145.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	314.0000
FVINLET	279.0000	FVSRC	939.0000	FWIN	0.7000
GCTC	215.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	1.4706	HVANAL	1294.0000
HVSRC	2701.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4793.6460	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1637.0000	LENSS	83.6000
LKM	180.9888	LM	800.0000	LMASS	180.9888
LMII	500.0000	MASS	180.9888	MDAC	2349141.2750

MDACR	23.0000	MRANGE	1034.0919	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	86.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-31.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10099.9637	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2312.0000
SHIELDS	0.4000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8700	TCURR	0.8984
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	1.6400	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.9888	XLENS	2500.0000
XLENSS	25.0000	YLENS	2047.0000	YLENSS	-70.4000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 12-Oct-07 14:21:35.5

Autosampler has injected sample from vial 10
MID Time Window 1: Resolution is 10055
MID Time Window 2: Resolution is 9608
MID Time Window 3: Resolution is 10086
MID Time Window 4: Resolution is 11249
Analysis stopped at: 12-Oct-07 15:18:30.5 (run time 56.89 minutes)
Analysis stopped because user requested stop from analysis

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	J00140	Work Order # ...:	J8ALA1AC-LCS	Matrix .....:	BIOLOGICA
LCS Lot-Sample# :	H7J050000 - 087				
Prep Date .....:	10/05/07	Analysis Date ..:	10/12/07		
Prep Batch # ...:	7278087				
Dilution Factor :	1				
Analyst ID.....:	Daniel (Dan) C. Gobich	Instrument ID..:	M1D	Method.....:	EPA-22 1668A
Initial Wgt/Vol:	10 g				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS
PCB 1 (BZ)	0.50	0.43	ng/g	86	B	(50 - 150)
PCB 3 (BZ)	0.50	0.40	ng/g	80	B	(50 - 150)
PCB 4 (BZ)	0.50	0.45	ng/g	90	B	(50 - 150)
PCB 15 (BZ)	0.50	0.45	ng/g	91	B	(50 - 150)
PCB 19 (BZ)	0.50	0.49	ng/g	98	B	(50 - 150)
PCB 37 (BZ)	0.50	0.43	ng/g	85	B	(50 - 150)
PCB 77 (BZ)	0.50	0.45	ng/g	89		(50 - 150)
PCB 81 (BZ)	0.50	0.45	ng/g	90		(50 - 150)
PCB 104 (BZ)	0.50	0.46	ng/g	93	B	(50 - 150)
PCB 105 (BZ)	0.50	0.44	ng/g	89		(50 - 150)
PCB 114 (BZ)	0.50	0.50	ng/g	100		(50 - 150)
PCB 118 (BZ)	0.50	0.46	ng/g	92	B	(50 - 150)
PCB 123 (BZ)	0.50	0.45	ng/g	91		(50 - 150)
PCB 126 (BZ)	0.50	0.45	ng/g	90		(50 - 150)
PCB 155 (BZ)	0.50	0.47	ng/g	94		(50 - 150)
PCB 156 (BZ)	1.0	0.90	ng/g	90	C	(50 - 150)
PCB 157 (BZ)	1.0	0.90	ng/g	90	C C156	(50 - 150)
PCB 167 (BZ)	0.50	0.46	ng/g	91		(50 - 150)
PCB 169 (BZ)	0.50	0.44	ng/g	87		(50 - 150)
PCB 188 (BZ)	0.50	0.45	ng/g	90		(50 - 150)
PCB 189 (BZ)	0.50	0.47	ng/g	95		(50 - 150)
PCB 202 (BZ)	0.50	0.46	ng/g	91		(50 - 150)
PCB 205 (BZ)	0.50	0.46	ng/g	91		(50 - 150)
PCB 206 (BZ)	0.50	0.44	ng/g	88		(50 - 150)
PCB 208 (BZ)	0.50	0.45	ng/g	90		(50 - 150)
PCB 209 (BZ)	0.50	0.48	ng/g	96		(50 - 150)

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	70	(30 - 140)
13C12-PCB 3	69	(30 - 140)
13C12-PCB 4	78	(30 - 140)
13C12-PCB 15	78	(30 - 140)
13C12-PCB 19	82	(30 - 140)
13C12-PCB 37	87	(30 - 140)
13C12-PCB 54	77	(30 - 140)
13C12-PCB 77	87	(30 - 140)
13C12-PCB 81	84	(30 - 140)
13C12-PCB 104	90	(30 - 140)
13C12-PCB 105	95	(30 - 140)
13C12-PCB 114	95	(30 - 140)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: J00140 **Work Order # ...:** J8ALA1AC-LCS **Matrix .....:** BIOLOGICA
LCS Lot-Sample# : H7J050000 - 087

INTERNAL STANDARD	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 118	100		(30 - 140)
13C12-PCB 123	96		(30 - 140)
13C12-PCB 126	90		(30 - 140)
13C12-PCB 155	94		(30 - 140)
13C12-PCB 156	96	C	(30 - 140)
13C12-PCB 157	96	C	(30 - 140)
13C12-PCB 167	96		(30 - 140)
13C12-PCB 169	78		(30 - 140)
13C12-PCB 170	98		(30 - 140)
13C12-PCB 188	100		(30 - 140)
13C12-PCB 189	99		(30 - 140)
13C12-PCB 202	101		(30 - 140)
13C12-PCB 205	96		(30 - 140)
13C12-PCB 206	99		(30 - 140)
13C12-PCB 208	107		(30 - 140)
13C12-PCB 209	110		(30 - 140)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	88	(40 - 125)
13C12-PCB 111	97	(40 - 125)
13C12-PCB 178	91	(40 - 125)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

C Co-eluting isomer.

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	12:06	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
Total Monochlorobiphenyl		3034436	976695			12.314805		1.231481	B	0.00132
13C12-PCB 1	12:15	1940821	686711	1.318	10.00	6.965269	69.65	0.696527		0.000662
13C12-PCB 3	14:30	1924108	507232	1.325	10.00	6.864602	68.65	0.686460		0.000658
PCB 1 (BZ)	12:16	1042631	393810	1.253	5.000	4.287860	85.76	0.428786	B	0.000384
PCB 2 (BZ)	14:20	956327	278772	1.226	5.000	4.035328	80.71	0.403533	B	0.000451
PCB 3 (BZ)	14:32	1035478	304113	1.348	5.000	3.991617	79.83	0.399162	B	0.000483
Total Dichlorobiphenyl		10727003	2565308			54.423081		5.442308	B	0.0214
13C12-PCB 4	14:48	1018164	293053	0.615	10.00	7.830550	78.31	0.783055		0.000941
13C12-PCB 9	16:46	2114649	561683	1.000	10.00	10.000000	100.00	1.000000		0.000579
13C12-PCB 8				1.332	5.000			ND		0.000735
13C12-PCB 15	20:50	1765609	370748	1.065	10.00	7.841395	78.41	0.784139		0.000543
PCB 4 (BZ)	14:49	552798	162628	1.212	5.000	4.481295	89.63	0.448129	B	0.00253
PCB 10 (BZ)	14:58	844470	254551	1.326	5.000	4.576875	91.54	0.457688	B	0.00205
PCB 9 (BZ)	16:47	875024	245590	1.445	5.000	4.349795	87.00	0.434980	B	0.00188
PCB 7 (BZ)	16:56	889828	232725	1.432	5.000	4.465314	89.31	0.446531	B	0.00189
PCB 6 (BZ)	17:14	909436	225205	1.450	5.000	4.505737	90.11	0.450574	B	0.00187
PCB 5 (BZ)	17:33	814942	226604	1.356	5.000	4.318225	86.36	0.431823	B	0.00200
PCB 8 (BZ)	17:41	978608	238568	1.477	5.000	4.760692	95.21	0.476069	B	0.00184
PCB 14 (BZ)	19:14	1078329	245844	1.687	5.000	4.591108	91.82	0.459111	B	0.00161
PCB 11 (BZ)	20:10	932697	199445	1.448	5.000	4.628706	92.57	0.462871	B	0.00187
PCB 13 (BZ)		1865207		1.454	10.00	9.216758	92.17	0.921676	BC12	0.00187
PCB 12 (BZ)	20:31	1865207	327398	1.454	10.00	9.216758	92.17	0.921676	BC	0.00187
PCB 15 (BZ)	20:51	985664	206750	1.233	5.000	4.528576	90.57	0.452858	B	0.00197
Total Trichlorobiphenyl		22210958	3670077			109.832416		10.983242	B	0.0290
13C12-PCB 19	18:01	746112	206388	0.558	10.00	8.171835	81.72	0.817184		0.00325
13C12-PCB 32	21:16	1635243	382532	1.000	10.00	10.000000	100.00	1.000000		0.00182
13C12-PCB 31	23:31	2603259	571183	1.000	10.00	10.000000	100.00	1.000000		0.00122
13C12-PCB 28	23:48	2226091	462938	0.968	10.00	8.835144	88.35	0.883514		0.00126
13C12-PCB 37	27:55	2001316	360423	0.885	10.00	8.684226	86.84	0.868423		0.00137
PCB 19 (BZ)	18:02	430326	112912	1.178	5.000	4.897393	97.95	0.489739	B	0.00218
PCB 30 (BZ)	19:43	664216	172512	1.874	5.000	4.749477	94.99	0.474948	B	0.00137
PCB 18 (BZ)	19:53	476963	116304	1.262	5.000	5.064863	101.30	0.506486	B	0.00203
PCB 17 (BZ)	20:16	505368	121532	1.326	5.000	5.108282	102.17	0.510828	B	0.00194
PCB 27 (BZ)	20:32	707221	179017	1.945	5.000	4.873082	97.46	0.487308	B	0.00132
PCB 24 (BZ)	20:38	701963	160585	1.782	5.000	5.279655	105.59	0.527965		0.00144
PCB 16 (BZ)	20:50	443225	98484	1.157	5.000	5.132878	102.66	0.513288	B	0.00222
PCB 32 (BZ)	21:17	750621	181860	1.966	5.000	5.116090	102.32	0.511609	B	0.00131
PCB 34 (BZ)	22:29	1048014	249283	1.216	5.000	4.306576	86.13	0.430658	B	0.00121
PCB 23 (BZ)	22:36	1073114	237940	1.208	5.000	4.439494	88.79	0.443949	B	0.00122
PCB 29 (BZ)	22:57	2188287	425450	1.265	10.00	8.645494	86.45	0.864549	BC26	0.00116
PCB 26 (BZ)		2188287		1.265	10.00	8.645494	86.45	0.864549	BC	0.00116
PCB 25 (BZ)	23:12	1226287	251435	1.362	5.000	4.500330	90.01	0.450033	B	0.00108
PCB 31 (BZ)	23:32	1122260	254449	1.285	5.000	4.362418	87.25	0.436242	B	0.00114
PCB 28 (BZ)		2065814		1.238	10.00	8.335751	83.36	0.833575	BC20	0.00119
PCB 20 (BZ)	23:56	2065814	241742	1.238	10.00	8.335751	83.36	0.833575	BC	0.00119
PCB 21 (BZ)		2292352		1.276	10.00	8.979410	89.79	0.897941	BC	0.00115
PCB 33 (BZ)	24:07	2292352	260538	1.276	10.00	8.979410	89.79	0.897941	BC21	0.00115
PCB 22 (BZ)	24:33	1054394	230745	1.218	5.000	4.324906	86.50	0.432491	B	0.00121
PCB 36 (BZ)	26:00	1151610	226393	1.286	5.000	4.475320	89.51	0.447532	B	0.00114

BMW 10/15/07

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	12:06	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 39 (BZ)	26:24	1157652	229905	1.330	5.000	4.349025	86.98	0.434903	B	0.00111
PCB 38 (BZ)	26:58	1043777	208040	1.246	5.000	4.185675	83.71	0.418568		0.00118
PCB 35 (BZ)	27:31	1064715	193117	1.195	5.000	4.450674	89.01	0.445067		0.00123
PCB 37 (BZ)	27:57	1042779	185026	1.224	5.000	4.255623	85.11	0.425562	B	0.00120
Total Tetrachlorobiphenyl		33291060	4920812			195.684642		19.568464	B	0.0660
13C12-PCB 54	21:11	747925	183261	0.598	10.00	7.653921	76.54	0.765392		0.00116
13C12-PCB 52	25:39	1388597	300108	1.000	10.00	10.000000	100.00	1.000000		0.000883
13C12-PCB 79				1.089	5.000			ND		0.000918
13C12-PCB 81	34:37	1500005	266137	1.286	10.00	8.397216	83.97	0.839722		0.000686
13C12-PCB 77	35:14	1564431	264009	1.297	10.00	8.685170	86.85	0.868517		0.000681
PCB 54 (BZ)	21:12	446964	111425	1.211	5.000	4.934515	98.69	0.493451	B	0.00267
PCB 50 (BZ)	23:19	1293608	161759	0.927	10.00	9.109366	91.09	0.910937	BC	0.00241
PCB 53 (BZ)		1293608		0.927	10.00	9.109366	91.09	0.910937	BC50	0.00241
PCB 45 (BZ)	24:01	1274621	265730	0.857	10.00	9.704593	97.05	0.970459	BC	0.00261
PCB 51 (BZ)		1274621		0.857	10.00	9.704593	97.05	0.970459	BC45	0.00261
PCB 46 (BZ)	24:22	521997	116622	0.706	5.000	4.823252	96.47	0.482325		0.00316
PCB 52 (BZ)	25:40	612910	146294	0.926	5.000	4.320115	86.40	0.432012	B	0.00241
PCB 73 (BZ)	25:48	1408415	193899	0.957	10.00	9.601458	96.01	0.960146	BC43	0.00233
PCB 43 (BZ)		1408415		0.957	10.00	9.601458	96.01	0.960146	BC	0.00233
PCB 69 (BZ)	26:01	815045	187138	1.180	5.000	4.506170	90.12	0.450617	B	0.00189
PCB 49 (BZ)	26:09	754223	157650	1.005	5.000	4.896312	97.93	0.489631	B	0.00222
PCB 48 (BZ)	26:25	617199	132414	0.886	5.000	4.546629	90.93	0.454663		0.00252
PCB 65 (BZ)	26:39	2117478	294521	1.024	15.00	13.499268	90.00	1.349927	BC44	0.00218
PCB 47 (BZ)		2117478		1.024	15.00	13.499268	90.00	1.349927	BC44	0.00218
PCB 44 (BZ)		2117478		1.024	15.00	13.499268	90.00	1.349927	BC	0.00218
PCB 62 (BZ)	26:55	2731271	315362	1.297	15.00	13.748712	91.66	1.374871	BC59	0.00172
PCB 75 (BZ)		2731271		1.297	15.00	13.748712	91.66	1.374871	BC59	0.00172
PCB 59 (BZ)		2731271		1.297	15.00	13.748712	91.66	1.374871	BC	0.00172
PCB 42 (BZ)	27:14	648935	129102	0.860	5.000	4.927104	98.54	0.492710		0.00260
PCB 41 (BZ)	27:39	468953	111863	0.723	5.000	4.231096	84.62	0.423110		0.00309
PCB 71 (BZ)	27:45	1457368	203536	0.953	10.00	9.977941	99.78	0.997794	BC40	0.00234
PCB 40 (BZ)		1457368		0.953	10.00	9.977941	99.78	0.997794	BC	0.00234
PCB 64 (BZ)	27:57	999374	205258	1.313	5.000	4.967559	99.35	0.496756	B	0.00170
PCB 72 (BZ)	28:40	898275	193398	1.257	5.000	4.663574	93.27	0.466357		0.00178
PCB 68 (BZ)	28:57	930305	191744	1.327	5.000	4.574951	91.50	0.457495	B	0.00168
PCB 57 (BZ)	29:24	857127	177505	1.194	5.000	4.685024	93.70	0.468502		0.00187
PCB 58 (BZ)	29:41	855998	186149	1.260	5.000	4.435074	88.70	0.443507		0.00177
PCB 67 (BZ)	29:49	967606	182190	1.286	5.000	4.909148	98.18	0.490915		0.00174
PCB 63 (BZ)	30:04	919525	189221	1.339	5.000	4.482971	89.66	0.448297		0.00167
PCB 61 (BZ)	30:19	808162	169934	1.190	5.000	4.431797	88.64	0.443180		0.00188
PCB 70 (BZ)	30:28	2874065	548034	1.317	15.00	14.241793	94.95	1.424179	BC	0.00170
PCB 76 (BZ)		2874065		1.317	15.00	14.241793	94.95	1.424179	BC70	0.00170
PCB 74 (BZ)		2874065		1.317	15.00	14.241793	94.95	1.424179	BC70	0.00170
PCB 66 (BZ)	30:48	876367	175056	1.289	5.000	4.436383	88.73	0.443638	B	0.00173
PCB 55 (BZ)	31:00	849615	172322	1.161	5.000	4.778019	95.56	0.477802		0.00193
PCB 56 (BZ)	31:32	869055	175546	1.231	5.000	4.608052	92.16	0.460805		0.00182
PCB 60 (BZ)	31:44	859755	171884	1.191	5.000	4.711465	94.23	0.471147		0.00188
PCB 80 (BZ)	31:58	1049797	196267	1.416	5.000	4.838413	96.77	0.483841		0.00158
PCB 79 (BZ)	33:36	922588	178412	1.371	5.000	4.392740	87.85	0.439274		0.00163

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PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	12:06	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 78 (BZ)	34:11	858579	147281	1.181	5.000	4.743640	94.87	0.474364		0.00189
PCB 81 (BZ)	34:39	889122	156674	1.317	5.000	4.499149	89.98	0.449915		0.00169
PCB 77 (BZ)	35:15	836758	145699	1.200	5.000	4.458358	89.17	0.445836		0.00187
Total Pentachlorobiphenyl		30840239	3939700			221.404495		22.140449	B	0.0689
13C12-PCB 104	26:34	1315587	285275	1.260	10.00	9.034164	90.34	0.903416		0.00105
13C12-PCB 95				0.741	5.000			ND		0.00146
13C12-PCB 101	32:25	1155969	232485	1.000	10.00	10.000000	100.00	1.000000		0.00132
13C12-PCB 111	35:02	1372257	274774	1.229	10.00	9.659049	96.59	0.965905		0.00108
13C12-PCB 123	37:06	1792936	345772	0.955	10.00	9.645049	96.45	0.964505		0.000896
13C12-PCB 118	37:25	1918124	360786	0.988	10.00	9.968623	99.69	0.996862		0.000866
13C12-PCB 114	37:57	1799863	342412	0.971	10.00	9.520335	95.20	0.952034		0.000881
13C12-PCB 105	38:42	1741708	326518	0.941	10.00	9.502256	95.02	0.950226		0.000909
13C12-PCB 127	40:02	1947500	359358	1.000	10.00	10.000000	100.00	1.000000		0.000856
13C12-PCB 126	41:45	1705284	303816	0.978	10.00	8.954834	89.55	0.895483		0.000875
PCB 104 (BZ)	26:35	700408	157958	1.149	5.000	4.631568	92.63	0.463157	B	0.00181
PCB 96 (BZ)	27:07	616436	135343	1.014	5.000	4.623106	92.46	0.462311		0.00206
PCB 103 (BZ)	28:49	544575	115469	0.866	5.000	4.777858	95.56	0.477786		0.00241
PCB 94 (BZ)	29:08	465048	98299	0.703	5.000	5.029761	100.60	0.502976		0.00297
PCB 95 (BZ)	29:39	1059482	196917	0.859	10.00	9.378234	93.78	0.937823	BC	0.00243
PCB 100 (BZ)		1059482		0.859	10.00	9.378234	93.78	0.937823	BC95	0.00243
PCB 93 (BZ)	29:50	438385	94853	0.701	5.000	4.750644	95.01	0.475064		0.00297
PCB 102 (BZ)		1112309		0.822	10.00	10.282576	102.83	1.028258	C98	0.00254
PCB 98 (BZ)	29:58	1112309	142859	0.822	10.00	10.282576	102.83	1.028258	C	0.00254
PCB 88 (BZ)	30:20	439947	93490	0.723	5.000	4.625821	92.52	0.462582		0.00289
PCB 91 (BZ)	30:28	556732	112966	0.864	5.000	4.899200	97.98	0.489920		0.00241
PCB 84 (BZ)	30:48	427486	88004	0.679	5.000	4.782999	95.66	0.478300		0.00307
PCB 89 (BZ)	31:14	442268	90763	0.717	5.000	4.686883	93.74	0.468688		0.00291
PCB 121 (BZ)	31:23	718107	140784	1.105	5.000	4.939573	98.79	0.493957	B	0.00189
PCB 92 (BZ)	31:52	500046	104533	0.772	5.000	4.921260	98.43	0.492126		0.00270
PCB 113 (BZ)	32:26	1881957	343868	0.990	15.00	14.454929	96.37	1.445493	BC90	0.00211
PCB 90 (BZ)		1881957		0.990	15.00	14.454929	96.37	1.445493	BC	0.00211
PCB 101 (BZ)		1881957		0.990	15.00	14.454929	96.37	1.445493	BC90	0.00211
PCB 83 (BZ)	33:00	1009270	210569	0.777	10.00	9.877817	98.78	0.987782	C	0.00269
PCB 99 (BZ)		1009270		0.777	10.00	9.877817	98.78	0.987782	C83	0.00269
PCB 112 (BZ)	33:10	704104	134444	1.079	5.000	4.960357	99.21	0.496036		0.00193
PCB 109 (BZ)/108 (IUPAC)	33:30	3770899	299092	0.967	30.00	29.648009	98.83	2.964801	C86	0.00216
PCB 86 (BZ)		3770899		0.967	30.00	29.648009	98.83	2.964801	C	0.00216
PCB 119 (BZ)		3770899		0.967	30.00	29.648009	98.83	2.964801	C86	0.00216
PCB 97 (BZ)		3770899		0.967	30.00	29.648009	98.83	2.964801	C86	0.00216
PCB 125 (BZ)		3770899		0.967	30.00	29.648009	98.83	2.964801	C86	0.00216
PCB 87 (BZ)		3770899		0.967	30.00	29.648009	98.83	2.964801	C86	0.00216
PCB 117 (BZ)	34:11	1869934	152450	0.979	15.00	14.516597	96.78	1.451660	C85	0.00213
PCB 116 (BZ)		1869934		0.979	15.00	14.516597	96.78	1.451660	C85	0.00213
PCB 85 (BZ)		1869934		0.979	15.00	14.516597	96.78	1.451660	C	0.00213
PCB 110 (BZ)	34:30	1542626	276234	1.139	10.00	10.297191	102.97	1.029719	BC	0.00183
PCB 115 (BZ)		1542626		1.139	10.00	10.297191	102.97	1.029719	BC110	0.00183
PCB 82 (BZ)	34:54	381282	79188	0.605	5.000	4.793300	95.87	0.479330		0.00345
PCB 111 (BZ)	35:04	727879	143829	1.129	5.000	4.901659	98.03	0.490166		0.00185
PCB 120 (BZ)	35:31	761563	148320	1.192	5.000	4.855713	97.11	0.485571		0.00175

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PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	12:06	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 124 (BZ)		1869194		1.123	10.00	9.286456	92.86	0.928646	C108	0.00158
PCB 108 (BZ)/107 (IUPAC)	36:45	1869194	361837	1.123	10.00	9.286456	92.86	0.928646	C	0.00158
PCB 107 (BZ)/109 (IUPAC)	36:59	895768	175734	1.074	5.000	4.654872	93.10	0.465487		0.00165
PCB 123 (BZ)	37:07	926557	195954	1.136	5.000	4.549068	90.98	0.454907		0.00151
PCB 106 (BZ)	37:14	924284	176955	1.046	5.000	4.931887	98.64	0.493189		0.00169
PCB 118 (BZ)	37:26	968065	189802	1.094	5.000	4.614522	92.29	0.461452	B	0.00151
PCB 122 (BZ)	37:51	832692	169611	1.047	5.000	4.437245	88.74	0.443725		0.00169
PCB 114 (BZ)	37:58	1077591	192056	1.196	5.000	5.005463	100.11	0.500546		0.00145
PCB 105 (BZ)	38:43	940367	172644	1.218	5.000	4.432305	88.65	0.443230		0.00150
PCB 127 (BZ)	40:03	879847	158928	1.130	5.000	4.344113	86.88	0.434411		0.00157
PCB 126 (BZ)	41:46	855131	153763	1.111	5.000	4.513509	90.27	0.451351		0.00176
Total Hexachlorobiphenyl		27895770	4381641			205.595205		20.559520	B	0.101
13C12-PCB 155	32:03	1273155	262442	1.178	10.00	9.350228	93.50	0.935023		0.00111
13C12-PCB 153				0.833	5.000			ND		0.00168
13C12-PCB 138	40:31	1366446	275507	1.000	10.00	10.000000	100.00	1.000000		0.00111
13C12-PCB 167	43:26	1628366	317872	1.237	10.00	9.636434	96.36	0.963643		0.000895
13C12-PCB 156	44:43	3223382	326893	1.229	20.00	19.197058	95.99	1.919706		0.000901
13C12-PCB 157								ND		0.000000
13C12-PCB 169	47:54	1260822	225154	1.188	10.00	7.769618	77.70	0.776962		0.000932
PCB 155 (BZ)	32:05	667313	136245	1.117	5.000	4.692132	93.84	0.469213		0.00222
PCB 152 (BZ)	32:29	609735	131900	1.023	5.000	4.680138	93.60	0.468014		0.00242
PCB 150 (BZ)	32:36	647278	134673	1.032	5.000	4.924960	98.50	0.492496		0.00240
PCB 136 (BZ)	33:05	608047	124878	0.967	5.000	4.941164	98.82	0.494116	B	0.00256
PCB 145 (BZ)	33:18	632648	131096	1.021	5.000	4.869214	97.38	0.486921		0.00243
PCB 148 (BZ)	34:38	460366	93536	0.749	5.000	4.827784	96.56	0.482778		0.00331
PCB 151 (BZ)		1463206		0.781	15.00	14.724770	98.17	1.472477	BC135	0.00317
PCB 135 (BZ)	35:27	1463206	173572	0.781	15.00	14.724770	98.17	1.472477	BC	0.00317
PCB 154 (BZ)		1463206		0.781	15.00	14.724770	98.17	1.472477	BC135	0.00317
PCB 144 (BZ)	35:53	474768	95574	0.759	5.000	4.915363	98.31	0.491536		0.00326
PCB 147 (BZ)	36:16	1280253	209553	0.862	10.00	9.721695	97.22	0.972169	BC	0.00347
PCB 149 (BZ)		1280253		0.862	10.00	9.721695	97.22	0.972169	BC147	0.00347
PCB 134 (BZ)		1091243		0.711	10.00	10.037356	100.37	1.003736	C	0.00420
PCB 143 (BZ)	36:37	1091243	125834	0.711	10.00	10.037356	100.37	1.003736	C134	0.00420
PCB 139 (BZ)	36:50	1295509	191916	0.856	10.00	9.907345	99.07	0.990735	C	0.00349
PCB 140 (BZ)		1295509		0.856	10.00	9.907345	99.07	0.990735	C139	0.00349
PCB 131 (BZ)	37:07	505540	106586	0.713	5.000	4.636616	92.73	0.463662		0.00419
PCB 142 (BZ)	37:15	548778	108476	0.735	5.000	4.886120	97.72	0.488612		0.00407
PCB 132 (BZ)	37:38	535920	107163	0.710	5.000	4.938086	98.76	0.493809	B	0.00421
PCB 133 (BZ)	37:57	571819	116915	0.768	5.000	4.869941	97.40	0.486994		0.00389
PCB 165 (BZ)	38:21	756669	154369	0.993	5.000	4.987387	99.75	0.498739		0.00301
PCB 146 (BZ)	38:35	630297	133435	0.874	5.000	4.720880	94.42	0.472088		0.00342
PCB 161 (BZ)	38:43	840515	164470	1.090	5.000	5.047707	100.95	0.504771		0.00274
PCB 153 (BZ)	39:13	1632012	259157	1.068	10.00	9.995341	99.95	0.999534	BC	0.00280
PCB 168 (BZ)		1632012		1.068	10.00	9.995341	99.95	0.999534	BC153	0.00280
PCB 141 (BZ)	39:28	605818	114805	0.756	5.000	5.245491	104.91	0.524549		0.00395
PCB 130 (BZ)	39:55	548087	112114	0.708	5.000	5.062667	101.25	0.506267		0.00422
PCB 137 (BZ)	40:05	625412	127704	0.835	5.000	4.900851	98.02	0.490085		0.00358
PCB 164 (BZ)	40:15	792327	151738	1.033	5.000	5.018383	100.37	0.501838		0.00289
PCB 138 (BZ)	40:32	2852683	306122	0.922	20.00	20.246326	101.23	2.024633	BC129	0.00324

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PCB's by EPA Method 1668A (Solid/Air Table 4)

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Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	12:06	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 163 (BZ)		2852683		0.922	20.00	20.246326	101.23	2.024633	BC129	0.00324
PCB 129 (BZ)		2852683		0.922	20.00	20.246326	101.23	2.024633	BC	0.00324
PCB 160 (BZ)		2852683		0.922	20.00	20.246326	101.23	2.024633	BC129	0.00324
PCB 158 (BZ)	40:54	916058	175785	1.191	5.000	5.032468	100.65	0.503247		0.00251
PCB 166 (BZ)	41:44	803379	151437	1.102	5.000	4.769828	95.40	0.476983		0.00271
PCB 128 (BZ)	41:54	604371	107772	0.769	5.000	5.144001	102.88	0.514400		0.00389
PCB 159 (BZ)	42:41	812414	151775	1.079	5.000	4.926115	98.52	0.492612		0.00277
PCB 162 (BZ)	42:59	824344	161274	1.079	5.000	5.000040	100.00	0.500004		0.00277
PCB 167 (BZ)	43:28	856444	161270	1.150	5.000	4.572578	91.45	0.457258		0.00178
PCB 156 (BZ)	44:44	1666981	170368	1.151	10.00	8.989086	89.89	0.898909	C	0.00346
PCB 157 (BZ)		1666981		1.151	10.00	8.989086	89.89	0.898909	C156	0.00346
PCB 169 (BZ)	47:55	735536	125516	1.337	5.000	4.363372	87.27	0.436337		0.00216
Total Heptachlorobiphenyl		14619363	2442585			108.065282		10.806528	B	0.0449
13C12-PCB 188	37:47	1565222	319333	1.238	10.00	10.032038	100.32	1.003204		0.000948
13C12-PCB 178	40:52	994742	198943	0.863	10.00	9.146084	91.46	0.914608		0.00136
13C12-PCB 180	45:55	1260138	244929	1.000	10.00	10.000000	100.00	1.000000		0.00117
13C12-PCB 170	47:17	999928	192516	0.813	10.00	9.754530	97.55	0.975453		0.00144
13C12-PCB 189	50:19	1722289	327255	1.620	10.00	9.905679	99.06	0.990568		0.000847
PCB 188 (BZ)	37:49	754806	153114	1.071	5.000	4.504221	90.08	0.450422		0.00157
PCB 179 (BZ)	38:17	712545	148087	1.200	5.000	4.630268	92.61	0.463027	B	0.00175
PCB 184 (BZ)	38:39	674205	140523	1.178	5.000	4.461241	89.22	0.446124		0.00178
PCB 176 (BZ)	39:09	734375	149027	1.252	5.000	4.573486	91.47	0.457349		0.00168
PCB 186 (BZ)	39:38	695168	135551	1.214	5.000	4.463457	89.27	0.446346		0.00173
PCB 178 (BZ)	40:54	494766	96435	0.889	5.000	4.337606	86.75	0.433761		0.00236
PCB 175 (BZ)	41:30	538157	102311	0.920	5.000	4.560250	91.21	0.456025		0.00228
PCB 187 (BZ)	41:47	578381	116908	1.009	5.000	4.470088	89.40	0.447009		0.00208
PCB 182 (BZ)	41:57	566060	111634	0.972	5.000	4.541050	90.82	0.454105		0.00216
PCB 183 (BZ)	42:22	559703	114245	0.946	5.000	4.612208	92.24	0.461221	B	0.00222
PCB 185 (BZ)	42:32	535792	105756	0.919	5.000	4.546129	90.92	0.454613		0.00229
PCB 174 (BZ)	42:44	530923	103390	0.924	5.000	4.479770	89.60	0.447977		0.00227
PCB 177 (BZ)	43:09	499791	98104	0.880	5.000	4.430652	88.61	0.443065		0.00239
PCB 181 (BZ)	43:29	546617	110169	0.975	5.000	4.372310	87.45	0.437231		0.00215
PCB 171 (BZ)		967848		0.835	10.00	9.036910	90.37	0.903691	C	0.00252
PCB 173 (BZ)	43:46	967848	184957	0.835	10.00	9.036910	90.37	0.903691	C171	0.00252
PCB 172 (BZ)	45:18	483717	95644	0.838	5.000	4.499447	89.99	0.449945		0.00251
PCB 192 (BZ)	45:34	639907	126521	1.147	5.000	4.348724	86.97	0.434872		0.00183
PCB 193 (BZ)	45:55	1301646	207663	1.134	10.00	8.949355	89.49	0.894935	C180	0.00185
PCB 180 (BZ)		1301646		1.134	10.00	8.949355	89.49	0.894935	C	0.00185
PCB 191 (BZ)	46:18	705920	135332	1.228	5.000	4.482920	89.66	0.448292		0.00171
PCB 170 (BZ)	47:19	475934	90193	1.058	5.000	4.500441	90.01	0.450044		0.00264
PCB 190 (BZ)	47:47	728109	133950	1.254	5.000	4.528683	90.57	0.452868		0.00168
PCB 189 (BZ)	50:20	894993	175691	1.097	5.000	4.736068	94.72	0.473607		0.00150
Total Octachlorobiphenyl		6602164	1223361			55.839869		5.583987		0.0164
13C12-PCB 202	43:08	1265199	257694	0.994	10.00	10.102958	101.03	1.010296		0.000791
13C12-PCB 194	52:22	1072962	209412	1.000	10.00	10.000000	100.00	1.000000		0.000919
13C12-PCB 205	52:49	1454619	279260	1.407	10.00	9.637132	96.37	0.963713		0.000653
PCB 202 (BZ)	43:10	573528	111316	0.993	5.000	4.566376	91.33	0.456638		0.00138
PCB 200 (BZ)/201 (IUPAC)	44:03	648865	130265	1.087	5.000	4.718177	94.36	0.471818		0.00126
PCB 204 (BZ)	44:41	595245	118967	1.033	5.000	4.553173	91.06	0.455317		0.00132

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IsoCalc Preliminary Sample Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/2007	Matrix	BIOLOGIC	Date Sampled	09/20/07
Analysis Time	12:06	Initial Wt/Vol	10.0	Lims Test Code	XXT4WIE01
Anal Exp Date	10/04/08	Extract Vol	100	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/g)		DL (ng/g)
PCB 197 (BZ)	44:56	628548	124439	1.061	5.000	4.680774	93.62	0.468077		0.00129
PCB 199 (BZ)/200 (IUPAC)	45:10	620308	122414	1.031	5.000	4.755945	95.12	0.475595		0.00133
PCB 198 (BZ)	47:52	886207	109774	0.761	10.00	9.206654	92.07	0.920665	C	0.00180
PCB 201 (BZ)/199 (IUPAC)		886207		0.761	10.00	9.206654	92.07	0.920665	C198	0.00180
PCB 196 (BZ)	48:32	424804	84644	0.752	5.000	4.464260	89.29	0.446426		0.00182
PCB 203 (BZ)	48:42	487504	90452	0.856	5.000	4.501431	90.03	0.450143		0.00160
PCB 195 (BZ)	50:07	524454	97859	0.723	5.000	4.990002	99.80	0.499000		0.00175
PCB 194 (BZ)	52:23	561064	105393	0.795	5.000	4.852431	97.05	0.485243		0.00159
PCB 205 (BZ)	52:50	651637	127838	0.984	5.000	4.550645	91.01	0.455065		0.00128
Total Nonachlorobiphenyl		1684358	328605			13.496956		1.349696		0.00273
13C12-PCB 208	49:43	1337784	262146	1.161	10.00	10.738455	107.38	1.073846		0.000936
13C12-PCB 206	54:31	876844	170648	0.823	10.00	9.933797	99.34	0.993380		0.00132
PCB 208 (BZ)	49:46	617086	123425	1.026	5.000	4.494576	89.89	0.449458		0.000799
PCB 207 (BZ)	50:39	643112	123399	1.264	5.000	4.594708	91.89	0.459471		0.000786
PCB 206 (BZ)	54:32	424160	81781	1.097	5.000	4.407671	88.15	0.440767		0.00115
13C12-PCB 209	56:04	1093552	205759	0.930	10.00	10.957864	109.58	1.095786		0.00119
PCB 209 (BZ)	56:05	526540	94119	1.006	5.000	4.787604	95.75	0.478760		0.000942

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IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 12:06	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	175	155	70	62	1.13 *	/	
	PCB 1 (BZ)	12:16	12:21	-5	789256	253375	301466	92344	3.11	ABV/ABV	M
	PCB 2 (BZ)	14:20	14:23	-3	733606	222721	213072	65700	3.29	ABV/ABV	
	PCB 3 (BZ)	14:32	14:33	-1	795503	239975	236165	67948	3.31	AVB/AVB	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	228	263	91	105	0.87 *	/	
	13C12-PCB 1	12:15	12:20	-5	1475806	465015	520939	165772	3.17	ABV/ABV	
	13C12-PCB 3	14:30	14:32	-2	1479320	444788	389225	118007	3.33	ABV/ABV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	323	578	129	231	0.56 *	/	
	PCB 4 (BZ)	14:49	14:50	-1	333627	219171	97708	64920	1.52	ABV/AVV	
	PCB 10 (BZ)	14:58	15:01	-3	520671	323799	156988	97563	1.61	AVV/AVB	
	PCB 9 (BZ)	16:47	16:48	-1	540262	334762	155517	90073	1.61	ABV/ABV	
	PCB 7 (BZ)	16:56	16:57	-1	552199	337629	144046	88679	1.64	AVV/AVV	
	PCB 6 (BZ)	17:14	17:14	0	561643	347793	140919	84286	1.61	AVB/AVV	
	PCB 5 (BZ)	17:33	17:33	0	499446	315496	138828	87776	1.58	ABV/ABV	
	PCB 8 (BZ)	17:41	17:41	0	604293	374315	149686	88882	1.61	AVB/AVB	
	PCB 14 (BZ)	19:14	19:15	-1	662174	416155	151077	94767	1.59	ABV/ABV	D
	PCB 11 (BZ)	20:10	20:10	0	569471	363226	122824	76621	1.57	ABV/ABV	
	PCB 12 (BZ)	20:31	20:29	2	1147164	718043	198742	128656	1.60	AVV/AVV	M
	PCB 15 (BZ)	20:51	20:47	4	599102	386562	125833	80917	1.55	AVB/AVB	M
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	183	143	73	57	1.28 *	/	
	13C12-PCB 4	14:48	14:49	-1	629765	388399	184124	108929	1.62	ABV/ABV	
	13C12-PCB 9	16:46	16:46	0	1303259	811390	345543	216140	1.61	ABV/ABV	
	13C12-PCB 15	20:50	20:47	3	1088833	676776	228478	142270	1.61	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	295	235	118	94	1.26 *	/	
	PCB 19 (BZ)	18:02	18:02	0	219430	210896	56779	56133	1.04	ABV/ABV	
	PCB 30 (BZ)	19:43	19:44	-1	345714	318502	89719	82793	1.09	ABV/ABV	D
	PCB 18 (BZ)	19:53	19:51	2	245074	231889	58796	57508	1.06	AVB/AVB	
	PCB 17 (BZ)	20:16	20:16	0	260062	245306	63931	57601	1.06	ABV/ABV	
	PCB 27 (BZ)	20:32	20:31	1	366539	340682	93227	85790	1.08	AVV/AVV	
	PCB 24 (BZ)	20:38	20:37	1	367181	334782	86297	74288	1.10	AVV/AVV	
	PCB 16 (BZ)	20:50	20:47	3	226503	216722	50501	47983	1.05	AVB/AVV	
	PCB 32 (BZ)	21:17	21:17	0	391184	359437	93560	88300	1.09	ABV/ABV	
	PCB 34 (BZ)	22:29	22:30	-1	516304	531710	123690	125593	0.97	ABV/ABV	D
	PCB 23 (BZ)	22:36	22:37	-1	542956	530158	121585	116355	1.02	AVB/AVB	D
	PCB 29 (BZ)	22:57	22:56	1	1092669	1095618	211722	213728	1.00	ABV/ABV	
	PCB 25 (BZ)	23:12	23:10	2	613697	612590	126562	124873	1.00	AVV/AVB	
	PCB 31 (BZ)	23:32	23:31	1	571039	551221	127649	126800	1.04	AVV/ABV	
	PCB 20 (BZ)	23:56	23:52	4	1034058	1031756	119360	122382	1.00	MVV/MVV	
	PCB 33 (BZ)	24:07	24:05	2	1141051	1151301	129887	130651	0.99	MVV/MVV	

Notes:
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T = peaks outside comm limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 12:06	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	PCB 22 (BZ)	24:33	24:29	4	526040	528354	111640	119105	1.00	AVB/AVB	
	PCB 36 (BZ)	26:00	26:00	0	580351	571259	110626	115767	1.02	AVV/AVV	
	PCB 39 (BZ)	26:24	26:21	3	576279	581373	115190	114715	0.99	AVV/AVV	
	PCB 38 (BZ)	26:58	26:57	1	516494	527283	104547	103493	0.98	AVV/AVV	
	PCB 35 (BZ)	27:31	27:27	4	550269	514446	95239	97878	1.07	ABV/ABV	
	PCB 37 (BZ)	27:57	27:52	5	518200	524579	92878	92148	0.99	AVV/AVV	M
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	373	323	149	129	1.16	/	
	13C12-PCB 19	18:01	18:00	1	384427	361685	105796	100592	1.06	AVV/ABV	
	13C12-PCB 32	21:16	21:15	1	851407	783836	201946	180586	1.09	AVV/AVV	
	13C12-PCB 31	23:31	23:29	2	1329831	1273428	290478	280705	1.04	ABV/ABV	
	13C12-PCB 28	23:48	23:46	2	1150761	1075330	241362	221576	1.07	AVV/AVV	
	13C12-PCB 37	27:55	27:50	5	1031593	969723	186751	173672	1.06	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	310	283	124	113	1.10 *	/	
	PCB 54 (BZ)	21:12	21:09	3	201692	245272	50488	60937	0.82	ABV/ABV	
	PCB 50 (BZ)	23:19	23:15	4	559546	734062	70764	90995	0.76	ABV/ABV	
	PCB 45 (BZ)	24:01	23:58	3	555475	719146	119380	146350	0.77	ABV/ABV	
	PCB 46 (BZ)	24:22	24:19	3	233137	288860	52149	64473	0.81	AVV/AVB	
	PCB 52 (BZ)	25:40	25:39	1	268991	343919	64196	82098	0.78	ABV/ABV	D
	PCB 73 (BZ)	25:48	25:46	2	618838	789577	84935	108964	0.78	AVV/AVV	D
	PCB 69 (BZ)	26:01	26:01	0	356091	458954	80707	106431	0.78	AVV/AVV	D
	PCB 49 (BZ)	26:09	26:08	1	324426	429797	68344	89306	0.75	AVB/AVB	D
	PCB 48 (BZ)	26:25	26:24	1	273641	343558	56786	75628	0.80	ABV/ABV	D
	PCB 65 (BZ)	26:39	26:37	2	937281	1180197	128735	165786	0.79	AVV/AVV	
	PCB 62 (BZ)	26:55	26:53	2	1196547	1534724	136979	178383	0.78	AVV/AVV	
	PCB 42 (BZ)	27:14	27:11	3	287194	361741	56785	72317	0.79	AVB/AVB	D
	PCB 41 (BZ)	27:39	27:36	3	206857	262096	50643	61220	0.79	ABV/ABV	
	PCB 71 (BZ)	27:45	27:41	4	635644	821724	89814	113722	0.77	AVV/AVV	
	PCB 64 (BZ)	27:57	27:53	4	437285	562089	90761	114497	0.78	AVV/AVB	D
	PCB 72 (BZ)	28:40	28:41	-1	392210	506065	85084	108314	0.78	ABV/ABV	
	PCB 68 (BZ)	28:57	28:56	1	403359	526946	83125	108619	0.77	AVV/AVV	
	PCB 57 (BZ)	29:24	29:23	1	374518	482609	77778	99727	0.78	ABV/ABB	
	PCB 58 (BZ)	29:41	29:39	2	375797	480201	81694	104455	0.78	AVV/ABV	
	PCB 67 (BZ)	29:49	29:46	3	424642	542964	80380	101810	0.78	AVV/AVV	
	PCB 63 (BZ)	30:04	30:04	0	412657	506868	83050	106171	0.81	AVV/AVB	
	PCB 61 (BZ)	30:19	30:17	2	352533	455629	77563	92371	0.77	AVV/ABV	
	PCB 70 (BZ)	30:28	30:25	3	1290184	1583881	242613	305421	0.81	AVB/AVB	
	PCB 66 (BZ)	30:48	30:45	3	383982	492385	77621	97435	0.78	ABV/ABV	
	PCB 55 (BZ)	31:00	30:57	3	384317	465298	76253	96069	0.83	AVV/AVV	
	PCB 56 (BZ)	31:32	31:28	4	388605	480450	79346	96200	0.81	ABV/ABV	M
	PCB 60 (BZ)	31:44	31:39	5	378398	481357	76092	95792	0.79	AVV/AVV	M
	PCB 80 (BZ)	31:58	31:55	3	453231	596566	86882	109385	0.76	AVB/AVV	
	PCB 79 (BZ)	33:36	33:33	3	403675	518913	78876	99536	0.78	ABV/ABV	

Notes:
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Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 12:06	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	PCB 78 (BZ)	34:11	34:08	3	381089	477490	66497	80784	0.80	AVV/ABV	
	PCB 81 (BZ)	34:39	34:35	4	391346	497776	68605	88069	0.79	AVV/AVV	M
	PCB 77 (BZ)	35:15	35:10	5	360924	475834	61955	83744	0.76	ABV/ABV	M
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	128	138	51	55	0.93 *	/	
	13C12-PCB 54	21:11	21:08	3	330033	417892	83222	100039	0.79	ABV/ABV	
	13C12-PCB 52	25:39	25:38	1	608660	779937	132868	167240	0.78	ABV/ABV	
	13C12-PCB 81	34:37	34:33	4	661620	838385	117018	149119	0.79	ABV/ABV	M
	13C12-PCB 77	35:14	35:09	5	696173	868258	115150	148859	0.80	AVV/ABV	M
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	320	275	128	110	1.16 *	/	
	PCB 104 (BZ)	26:35	26:35	0	434328	266080	96084	61874	1.63	ABV/ABV	
	PCB 96 (BZ)	27:07	27:04	3	382315	234121	82861	52482	1.63	AVB/AVV	
	PCB 103 (BZ)	28:49	28:51	-2	336025	208550	71468	44001	1.61	ABV/ABV	D
	PCB 94 (BZ)	29:08	29:07	1	288777	176271	61350	36949	1.64	AVV/AVV	
	PCB 95 (BZ)	29:39	29:37	2	648816	410666	115768	81149	1.58	ABV/ABV	
	PCB 93 (BZ)	29:50	29:46	4	268264	170121	56687	38166	1.58	AVV/AVV	DM
	PCB 98 (BZ)	29:58	29:58	0	679900	432409	87526	55333	1.57	AVB/AVB	
	PCB 88 (BZ)	30:20	30:19	1	270002	169945	56664	36826	1.59	ABV/ABV	
	PCB 91 (BZ)	30:28	30:26	2	346537	210195	69406	43560	1.65	AVV/AVB	
	PCB 84 (BZ)	30:48	30:43	5	262485	165001	53166	34838	1.59	AVB/ABB	M
	PCB 89 (BZ)	31:14	31:11	3	268062	174206	55111	35652	1.54	ABV/ABV	
	PCB 121 (BZ)	31:23	31:25	-2	442773	275334	87401	53383	1.61	AVV/AVV	D
	PCB 92 (BZ)	31:52	31:52	0	302375	197671	65190	39343	1.53	AVV/ABV	
	PCB 113 (BZ)	32:26	32:24	2	1153555	728402	213250	130618	1.58	ABV/ABV	
	PCB 83 (BZ)	33:00	32:58	2	621034	388236	130400	80169	1.60	ABV/ABV	
	PCB 112 (BZ)	33:10	33:08	2	436661	267443	82028	52416	1.63	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	33:30	33:28	2	2328079	1442820	184008	115084	1.61	ABB/ABB	
	PCB 117 (BZ)	34:11	34:09	2	1155831	714103	93600	58850	1.62	ABV/ABV	
	PCB 110 (BZ)	34:30	34:28	2	945505	597121	166699	109535	1.58	AVV/AVB	
	PCB 82 (BZ)	34:54	34:50	4	231113	150169	47644	31544	1.54	ABV/ABV	M
	PCB 111 (BZ)	35:04	35:04	0	441128	286751	88270	55559	1.54	AVV/AVV	D
	PCB 120 (BZ)	35:31	35:32	-1	465568	295995	89457	58863	1.57	AVV/AVV	D
	PCB 108 (BZ)/107 (IUPAC	36:45	36:43	2	1149268	719926	222934	138903	1.60	ABV/ABV	
	PCB 107 (BZ)/109 (IUPAC	36:59	36:57	2	569859	325909	110656	65078	1.75	AVV/AVV	D
	PCB 123 (BZ)	37:07	37:03	4	530830	395727	119689	76265	1.34	AVV/AVV	
	PCB 106 (BZ)	37:14	37:12	2	584811	339473	106710	70245	1.72	AVV/AVV	
	PCB 118 (BZ)	37:26	37:24	2	589636	378429	115257	74545	1.56	AVV/AVV	
	PCB 122 (BZ)	37:51	37:48	3	514598	318094	107609	62002	1.62	ABV/ABV	
	PCB 114 (BZ)	37:58	37:56	2	662549	415042	120227	71829	1.60	AVV/AVB	
	PCB 105 (BZ)	38:43	38:39	4	575344	365023	106249	66395	1.58	ABB/ABB	M
	PCB 127 (BZ)	40:03	40:02	1	531980	347867	96320	62608	1.53	AVV/AVV	
	PCB 126 (BZ)	41:46	41:40	6	520959	334172	96454	57309	1.56	ABV/ABV	M
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 12:06	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	168	140	67	56	1.20 *	/	
	13C12-PCB 104	26:34	26:33	1	814851	500736	175230	110045	1.63	ABV/ABV	
	13C12-PCB 101	32:25	32:24	1	726085	429884	145245	87240	1.69	ABV/ABV	
	13C12-PCB 111	35:02	35:02	0	842502	529755	168346	106428	1.59	ABV/AVV	
	13C12-PCB 123	37:06	37:03	3	1112572	680364	214860	130912	1.64	ABV/ABV	
	13C12-PCB 118	37:25	37:22	3	1189755	728369	220384	140402	1.63	AVV/AVV	
	13C12-PCB 114	37:57	37:54	3	1108637	691226	215006	127406	1.60	AVV/AVV	
	13C12-PCB 105	38:42	38:37	5	1078623	663085	203286	123232	1.63	ABB/ABB	M
	13C12-PCB 127	40:02	40:00	2	1198373	749127	223943	135415	1.60	ABV/AVV	
	13C12-PCB 126	41:45	41:39	6	1052302	652982	190827	112989	1.61	ABV/ABV	M
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	348	303	139	121	1.15	/	
	PCB 155 (BZ)	32:05	32:06	-1	371093	296220	76752	59493	1.25	ABB/ABV	
	PCB 152 (BZ)	32:29	32:28	1	339776	269959	73359	58541	1.26	ABV/ABV	
	PCB 150 (BZ)	32:36	32:34	2	362868	284410	75839	58834	1.28	AVB/AVB	D
	PCB 136 (BZ)	33:05	33:03	2	335511	272536	67410	57468	1.23	ABV/ABV	D
	PCB 145 (BZ)	33:18	33:16	2	348480	284168	73389	57707	1.23	AVB/AVB	D
	PCB 148 (BZ)	34:38	34:41	-3	256070	204296	52995	40541	1.25	ABV/ABV	
	PCB 135 (BZ)	35:27	35:25	2	819503	643703	96981	76591	1.27	ABB/ABV	
	PCB 144 (BZ)	35:53	35:54	-1	268726	206042	54273	41301	1.30	ABB/ABB	
	PCB 147 (BZ)	36:16	36:14	2	715915	564338	116744	92809	1.27	ABV/ABV	
	PCB 143 (BZ)	36:37	36:36	1	608033	483210	68570	57264	1.26	AVV/AVV	
	PCB 139 (BZ)	36:50	36:48	2	728996	566513	108414	83502	1.29	AVV/AVV	
	PCB 131 (BZ)	37:07	37:04	3	286051	219489	60400	46186	1.30	AVV/AVV	D
	PCB 142 (BZ)	37:15	37:14	1	311481	237297	61292	47184	1.31	AVB/AVB	
	PCB 132 (BZ)	37:38	37:36	2	304207	231713	60365	46798	1.31	ABB/ABB	
	PCB 133 (BZ)	37:57	37:58	-1	323252	248567	68235	48680	1.30	ABB/ABB	
	PCB 165 (BZ)	38:21	38:21	0	424738	331931	84616	69753	1.28	ABV/ABV	
	PCB 146 (BZ)	38:35	38:35	0	352880	277417	74959	58476	1.27	AVV/AVV	
	PCB 161 (BZ)	38:43	38:44	-1	470933	369582	92789	71681	1.27	AVB/AVB	
	PCB 153 (BZ)	39:13	39:13	0	914810	717202	145417	113740	1.28	ABV/ABV	
	PCB 141 (BZ)	39:28	39:27	1	339075	266743	63775	51030	1.27	AVB/AVV	
	PCB 130 (BZ)	39:55	39:53	2	301299	246788	62486	49628	1.22	ABV/ABV	
	PCB 137 (BZ)	40:05	40:04	1	351045	274367	73763	53941	1.28	AVV/AVV	
	PCB 164 (BZ)	40:15	40:13	2	441000	351327	85342	66396	1.26	AVV/AVV	
	PCB 138 (BZ)	40:32	40:31	1	1598028	1254655	170501	135621	1.27	AVV/AVV	
	PCB 158 (BZ)	40:54	40:51	3	519630	396428	98098	77687	1.31	AVB/AVB	
	PCB 166 (BZ)	41:44	41:42	2	448897	354482	84940	66497	1.27	ABV/AVV	
	PCB 128 (BZ)	41:54	41:49	5	342246	262125	62232	45540	1.31	AVB/AVV	M
	PCB 159 (BZ)	42:41	42:41	0	464671	347743	84773	67002	1.34	ABV/AVV	
	PCB 162 (BZ)	42:59	42:58	1	464419	359925	89605	71669	1.29	AVV/AVV	
	PCB 167 (BZ)	43:28	43:28	0	477445	378999	90033	71237	1.26	ABB/ABB	
	PCB 156 (BZ)	44:44	44:38	6	942055	724926	95601	74767	1.30	ABB/ABB	DM
	PCB 169 (BZ)	47:55	47:51	4	414268	321268	68786	56730	1.29	ABV/ABV	M

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 12:06	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	153	153	61	61	1.00 *	/	
	13C12-PCB 155	32:03	32:05	-2	721883	551272	147116	115326	1.31	ABV/ABB	
	13C12-PCB 138	40:31	40:29	2	772805	593641	156873	118634	1.30	ABV/ABV	
	13C12-PCB 167	43:26	43:25	1	924499	703867	179179	138693	1.31	AVV/ABV	
	13C12-PCB 156	44:43	44:35	8	1822924	1400458	187999	138894	1.30	AVV/AVV	M
	13C12-PCB 169	47:54	47:50	4	707085	553737	127830	97324	1.28	ABV/ABV	M
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	293	245	117	98	1.19	/	
	PCB 188 (BZ)	37:49	37:49	0	388083	366723	79408	73706	1.06	ABB/ABV	
	PCB 179 (BZ)	38:17	38:17	0	365863	346682	74513	73574	1.06	ABV/AVV	
	PCB 184 (BZ)	38:39	38:41	-2	338789	335416	70233	70290	1.01	AVV/AVV	
	PCB 176 (BZ)	39:09	39:09	0	377847	356528	77087	71940	1.06	ABV/ABB	
	PCB 186 (BZ)	39:38	39:36	2	356527	338641	70013	65538	1.05	AVV/ABV	D
	PCB 178 (BZ)	40:54	40:54	0	255123	239643	49591	46844	1.06	ABB/ABV	
	PCB 175 (BZ)	41:30	41:31	-1	276574	261583	52314	49997	1.06	ABV/ABV	
	PCB 187 (BZ)	41:47	41:47	0	292423	285958	60075	56833	1.02	AVV/AVV	
	PCB 182 (BZ)	41:57	41:58	-1	291264	274796	56295	55339	1.06	AVV/AVV	
	PCB 183 (BZ)	42:22	42:23	-1	278919	280784	56080	58165	0.99	ABV/ABV	
	PCB 185 (BZ)	42:32	42:32	0	269542	266250	55522	50234	1.01	AVV/AVV	
	PCB 174 (BZ)	42:44	42:42	2	271575	259348	54119	49271	1.05	AVB/AVV	
	PCB 177 (BZ)	43:09	43:09	0	252818	246973	48793	49311	1.02	ABB/ABV	
	PCB 181 (BZ)	43:29	43:29	0	274846	271771	54225	55944	1.01	ABB/AVV	
	PCB 173 (BZ)	43:46	43:45	1	494435	473413	94595	90362	1.04	ABB/AVB	
	PCB 172 (BZ)	45:18	45:19	-1	249305	234412	50559	45085	1.06	AVV/ABV	
	PCB 192 (BZ)	45:34	45:34	0	329313	310594	63708	62813	1.06	AVV/AVV	
	PCB 193 (BZ)	45:55	45:53	2	663211	638435	106443	101220	1.04	AVV/AVV	
	PCB 191 (BZ)	46:18	46:19	-1	355773	350147	67610	67722	1.02	AVB/AVB	
	PCB 170 (BZ)	47:19	47:17	2	241931	234003	44764	45429	1.03	ABV/ABV	
	PCB 190 (BZ)	47:47	47:46	1	373335	354774	70191	63759	1.05	ABB/ABB	
	PCB 189 (BZ)	50:20	50:19	1	457447	437546	89633	86058	1.05	AVV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	150	138	60	55	1.09	/	
	13C12-PCB 188	37:47	37:48	-1	801669	763553	163579	155754	1.05	ABV/ABV	
	13C12-PCB 178	40:52	40:52	0	512627	482115	104147	94796	1.06	ABV/ABV	
	13C12-PCB 180	45:55	45:55	0	650996	609142	128561	116368	1.07	ABV/ABV	
	13C12-PCB 170	47:17	47:15	2	517481	482447	98911	93605	1.07	ABV/ABV	
	13C12-PCB 189	50:19	50:17	2	887184	835105	168417	158838	1.06	ABV/ABV	
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	175	178	70	71	0.99	/	
	PCB 202 (BZ)	43:10	43:10	0	268317	305211	52286	59030	0.88	ABV/ABV	
	PCB 200 (BZ)/201 (IUPAC	44:03	44:06	-3	303309	345556	58892	71373	0.88	ABV/ABV	
	PCB 204 (BZ)	44:41	44:44	-3	277815	317430	54529	64438	0.88	ABV/ABV	
	PCB 197 (BZ)	44:56	44:58	-2	295268	333280	60817	63622	0.89	AVV/AVV	
	PCB 199 (BZ)/200 (IUPAC	45:10	45:09	1	294547	325761	59035	63379	0.90	AVB/AVB	

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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A (Solid/Air Table 4)

IsoCalc

Workorder	J8ALA1AC	Prep Batch	7278087	Lot No	H7J050000-087
Data File	/20071012s1/apj8alac.d	Prep Date	10/05/07	SDG No	
Analysis ID	99730	Prep Exp Date	09/19/08	Date Received	10/05/07
Analysis Date	10/12/07 12:06	Matrix	BIOLOGIC	Date Sampled	09/20/07
Anal Exp Date	10/04/08	Initial Wt/Vol	10.0 g	Lims Test Code	XXT4WIE01
Instrument	M1D	Extract Vol	100 uL	Method	IE5
Analyst	DCG	Diluton Factor	1.00	Code	IE5

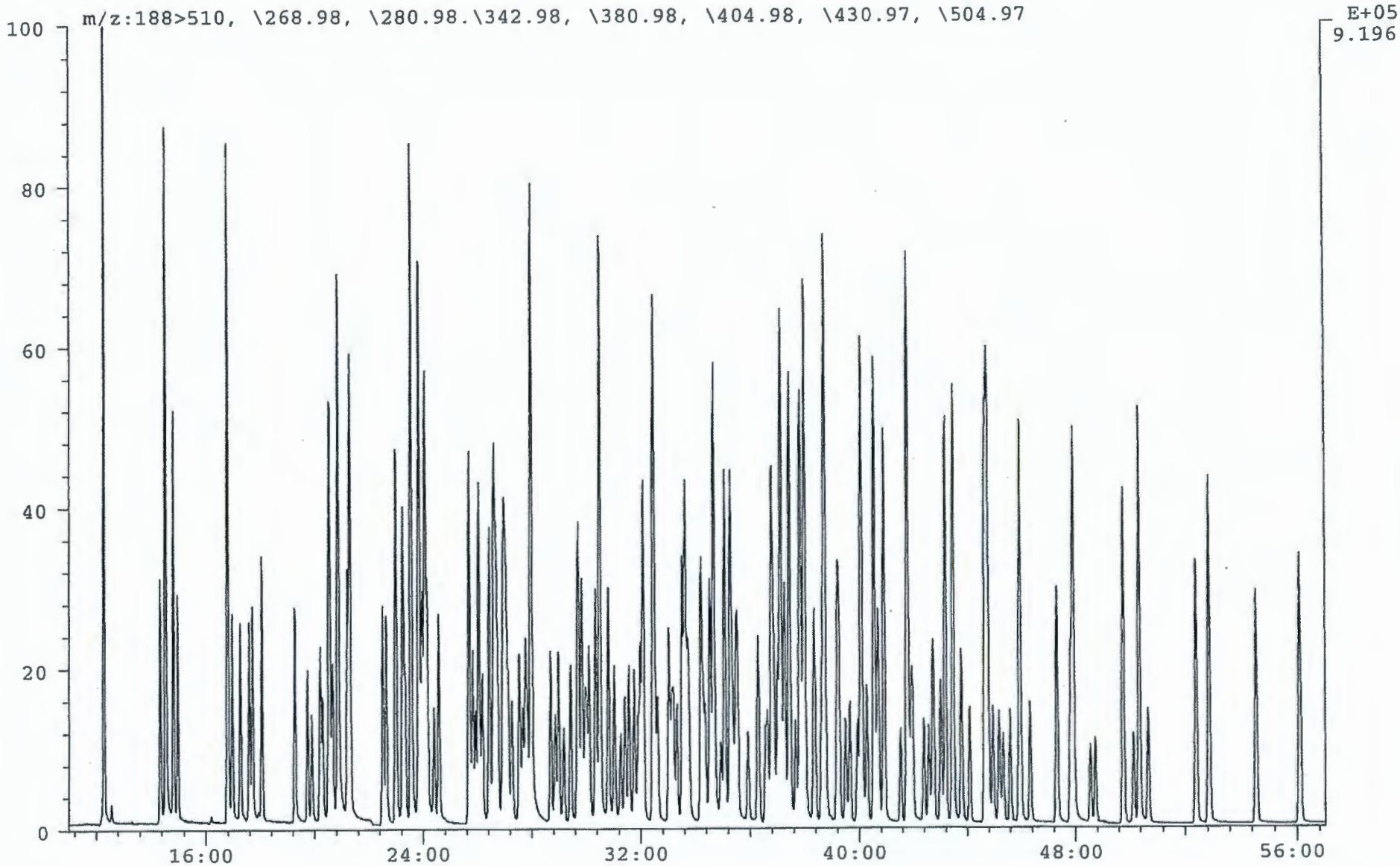
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02	
	PCB 198 (BZ)	47:52	47:50	2	418854	467353	51253	58521	0.90	ABV/ABV
	PCB 196 (BZ)	48:32	48:33	-1	199426	225378	39141	45503	0.88	ABV/ABV
	PCB 203 (BZ)	48:42	48:43	-1	228583	258921	42268	48184	0.88	AVV/AVV
	PCB 195 (BZ)	50:07	50:03	4	241789	282665	45750	52109	0.86	ABV/ABV
	PCB 194 (BZ)	52:23	52:23	0	268080	292984	49655	55738	0.91	ABV/ABB
	PCB 205 (BZ)	52:50	52:51	-1	310265	341372	59457	68381	0.91	AVV/AVV
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02	
	Noise	00:00	00:00	0	95	98	38	39	0.97	/
	13C12-PCB 202	43:08	43:09	-1	601504	663695	121458	136236	0.91	ABV/ABV
	13C12-PCB 194	52:22	52:22	0	515806	557156	101444	107968	0.93	ABV/ABV
	13C12-PCB 205	52:49	52:49	0	688408	766211	132452	146808	0.90	AVV/AVV
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89	
	Noise	00:00	00:00	0	100	115	40	46	0.87	/
	PCB 208 (BZ)	49:46	49:46	0	264681	352405	52354	71071	0.75	ABB/ABV
	PCB 207 (BZ)	50:39	50:42	-3	283506	359606	56350	67049	0.79	AVV/ABV
	PCB 206 (BZ)	54:32	54:32	0	182447	241713	36045	45736	0.75	ABV/ABV
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89	
	Noise	00:00	00:00	0	108	120	43	48	0.90 *	/
	13C12-PCB 208	49:43	49:45	-2	588576	749208	115657	146489	0.79	ABV/ABV
	13C12-PCB 206	54:31	54:31	0	380656	496188	75126	95522	0.77	ABV/ABV
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79	
	Noise	00:00	00:00	0	98	98	39	39	1.00 *	/
	PCB 209 (BZ)	56:05	56:07	-2	217547	308993	38774	55345	0.70	ABV/ABV
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79	
	Noise	00:00	00:00	0	140	93	56	37	1.51 *	/
	13C12-PCB 209	56:04	56:06	-2	447028	646524	84062	121697	0.69	ABV/ABV

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: apj8alac 12-Oct-07 Elapse: 32:22 1210
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

Int/Calc DCS 10/12/07
QC BFW 10/15/07
Rev DCS 10/16/07



3021

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CHRO:  apj8alac                                12-Oct-07   Elapse:  13:26.5      139
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   59 > 219             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
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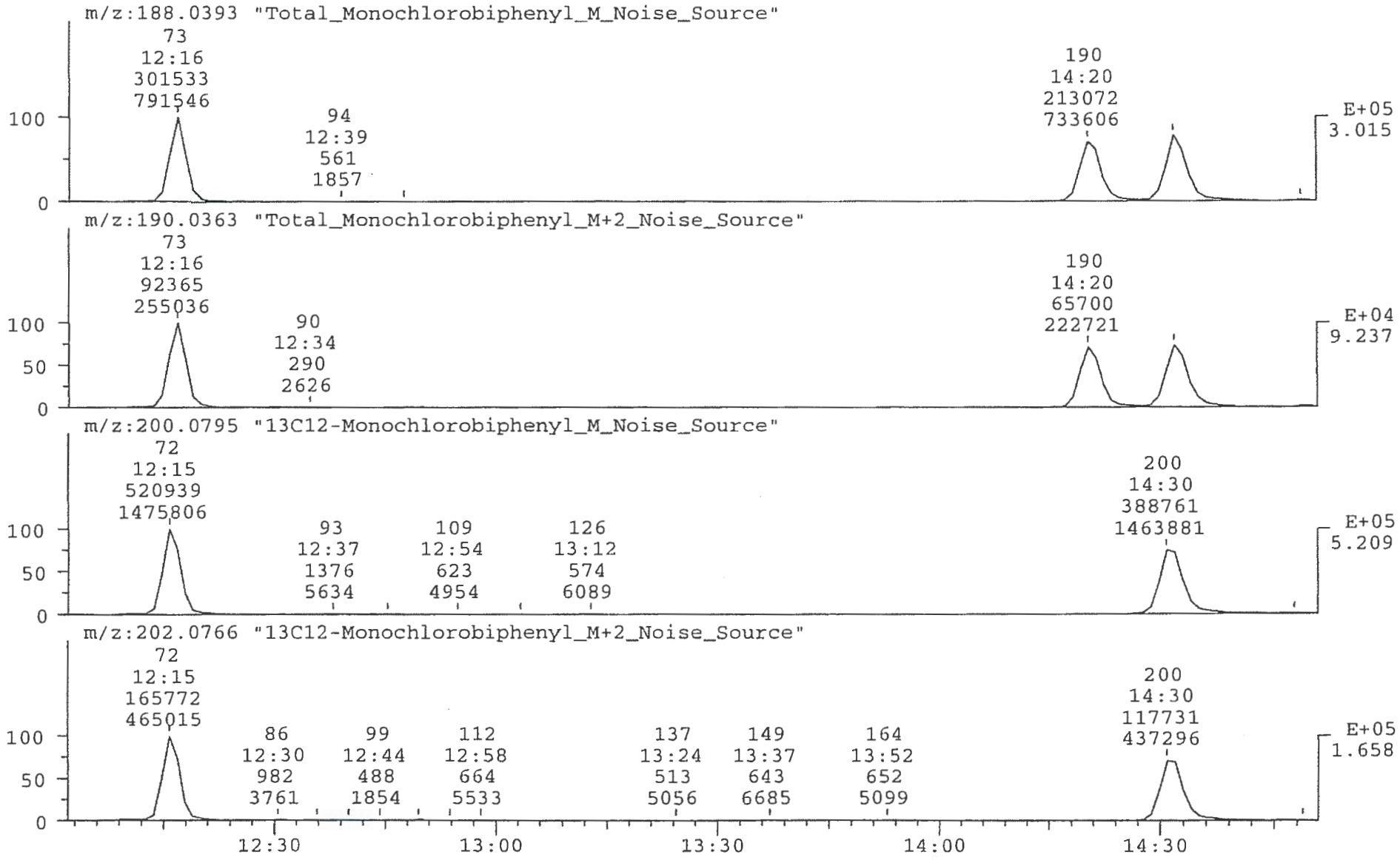

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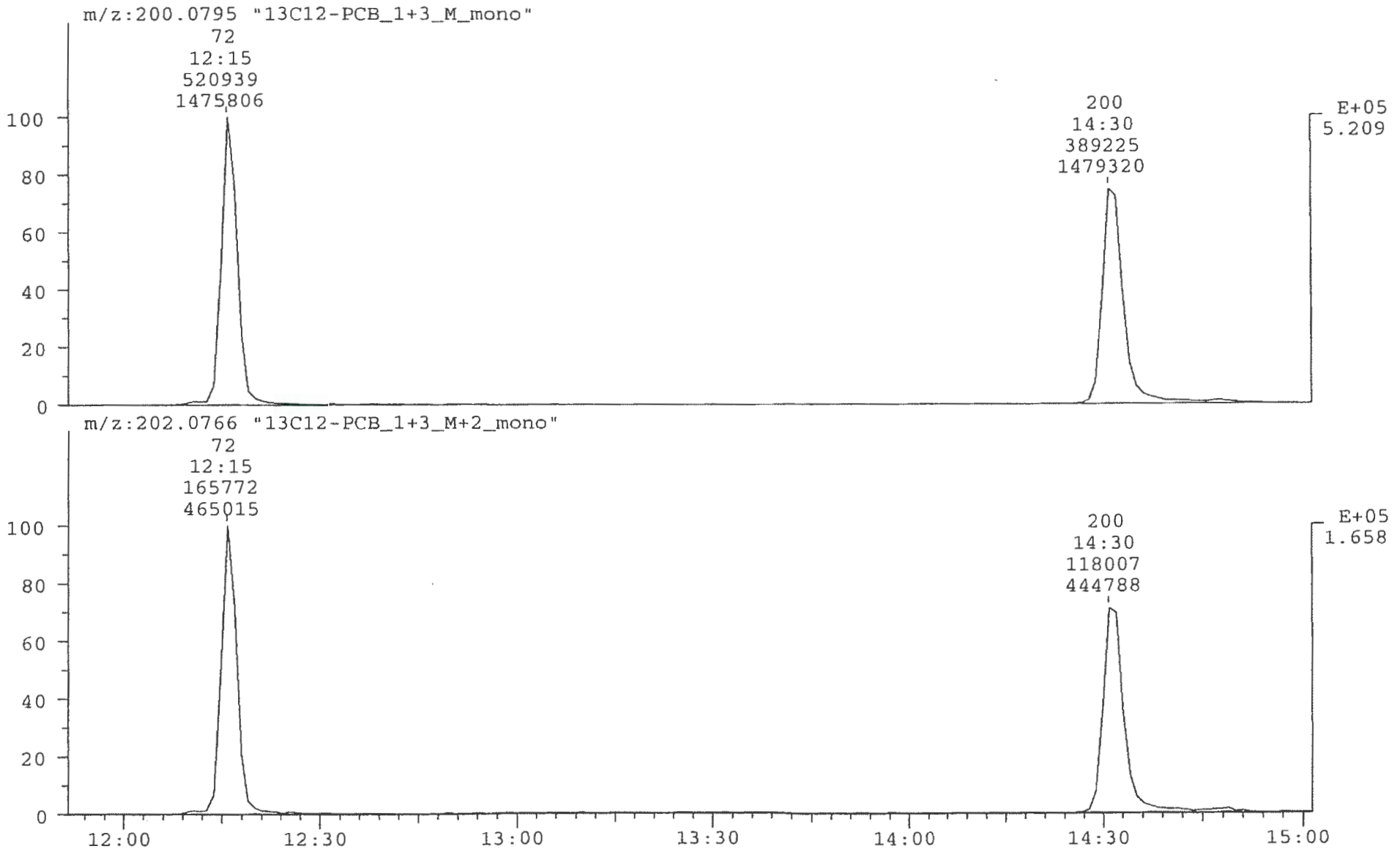
CHRO:  apj8alac                                12-Oct-07   Elapse:  13:26.5      139
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   49 > 229             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



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CHRO:  apj8alac                                12-Oct-07   Elapse:  12:12.6      69
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   59 > 99              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```
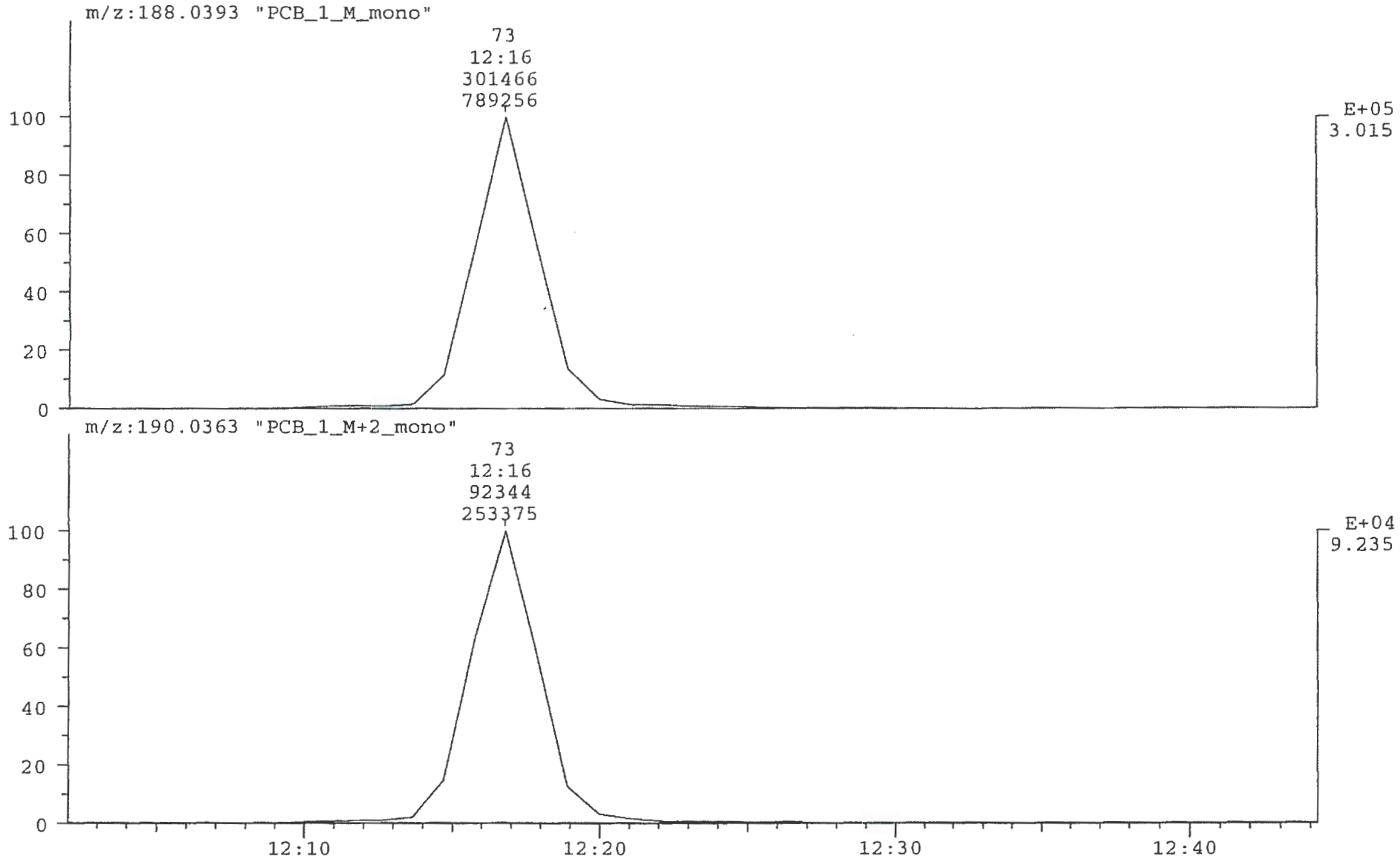
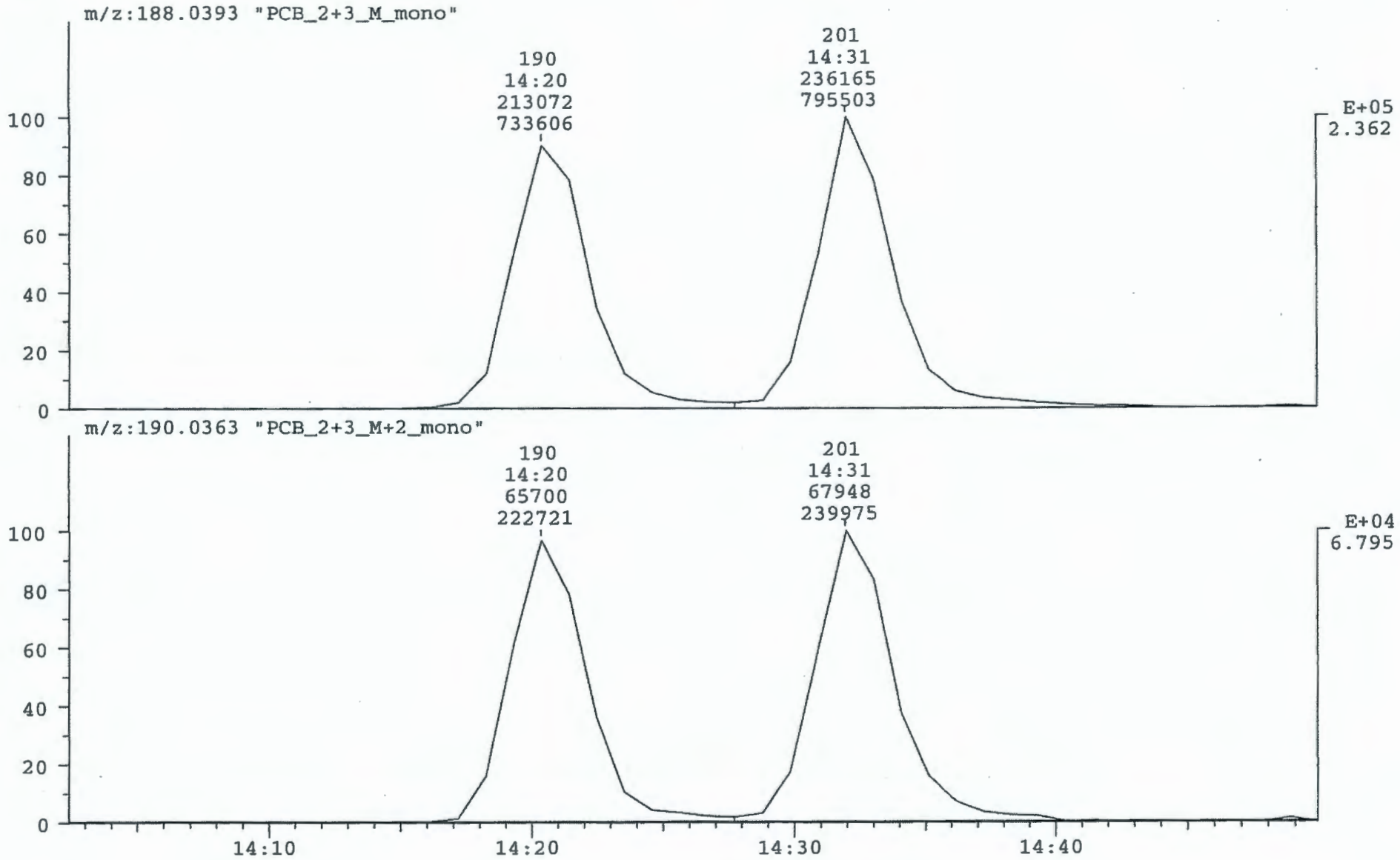
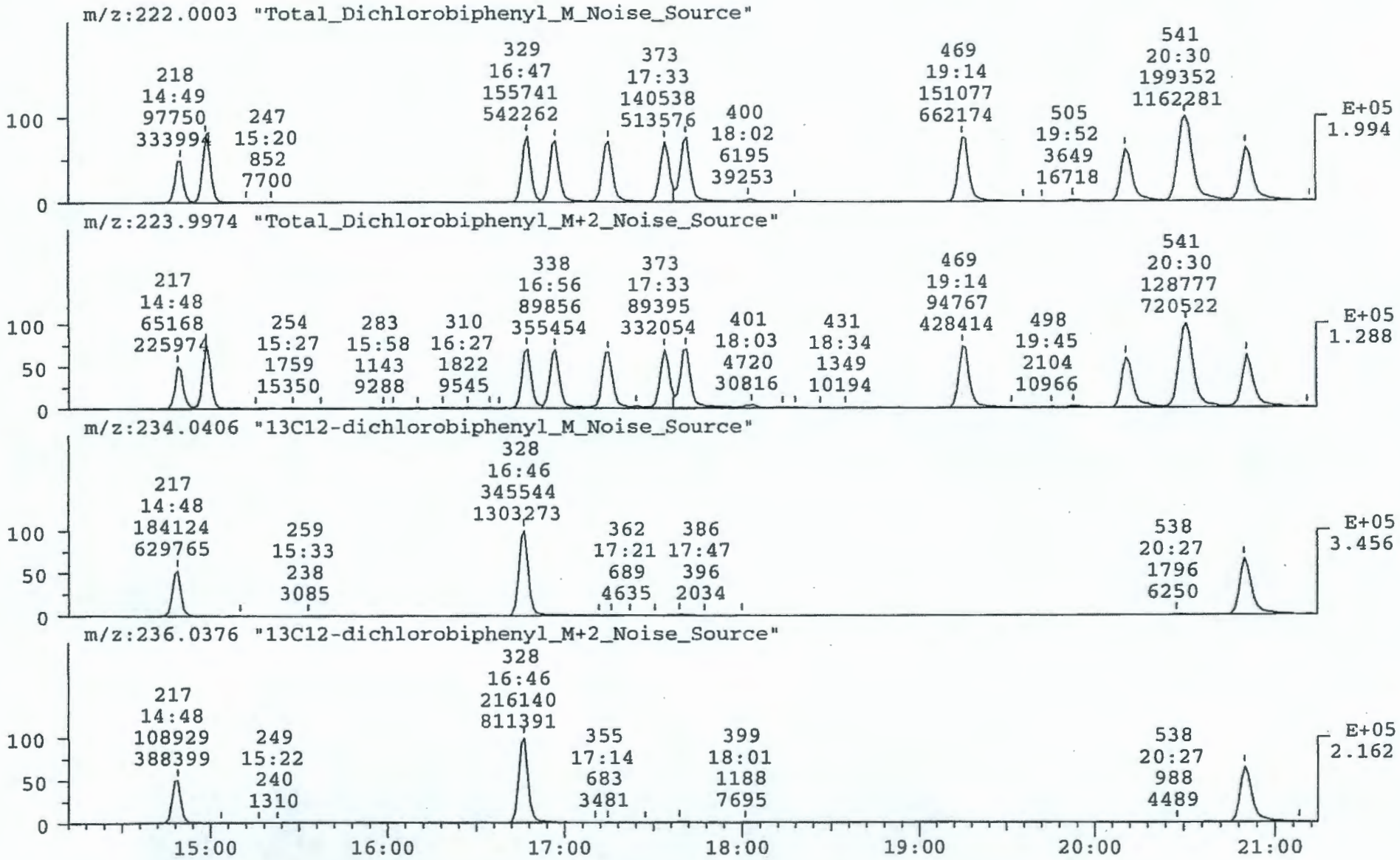



3024

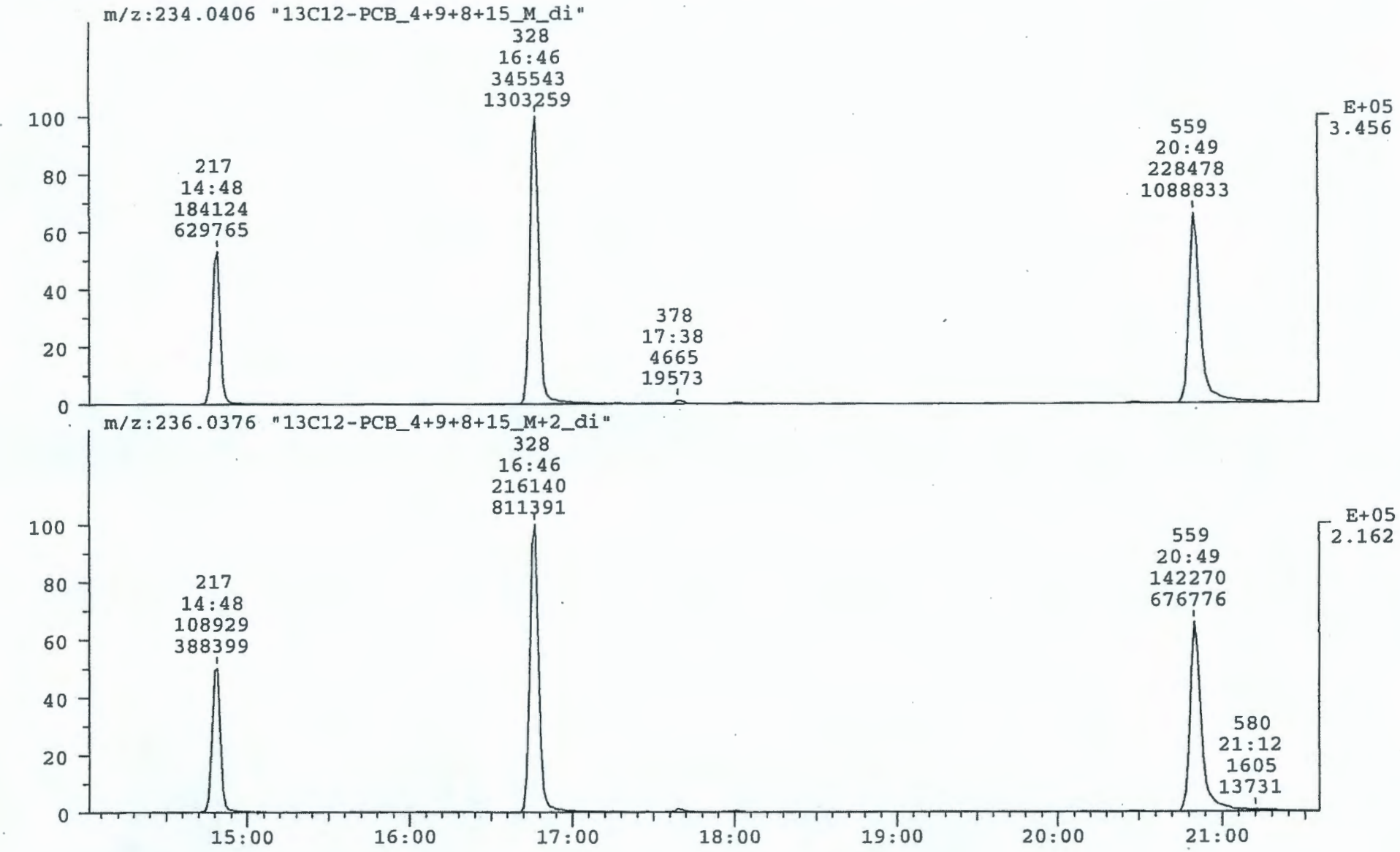
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  14:23.5     193
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   173 > 218            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: apj8alac 12-Oct-07 Elapse: 17:43.0 382
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

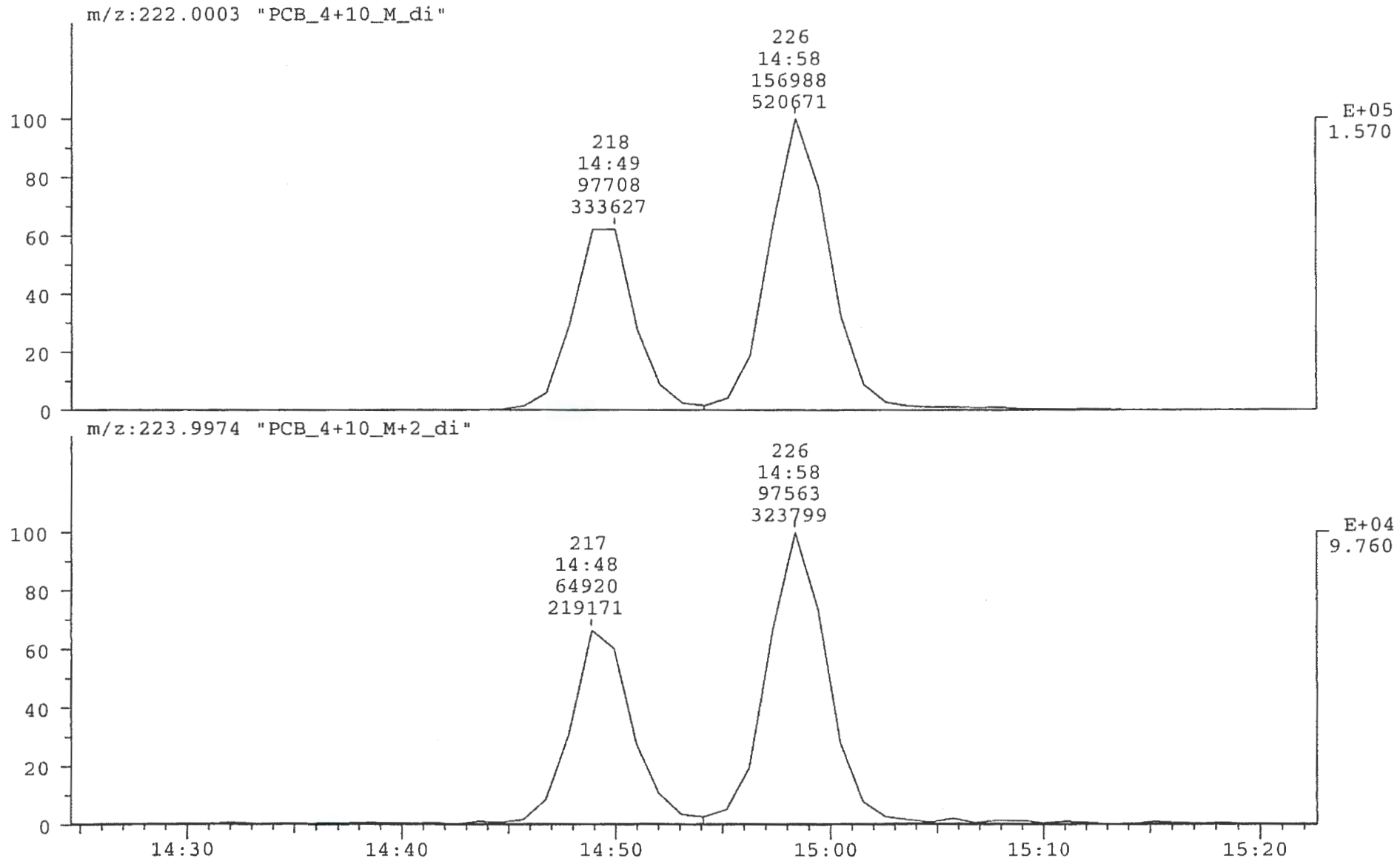


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  17:43.0      382
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   172 > 602            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

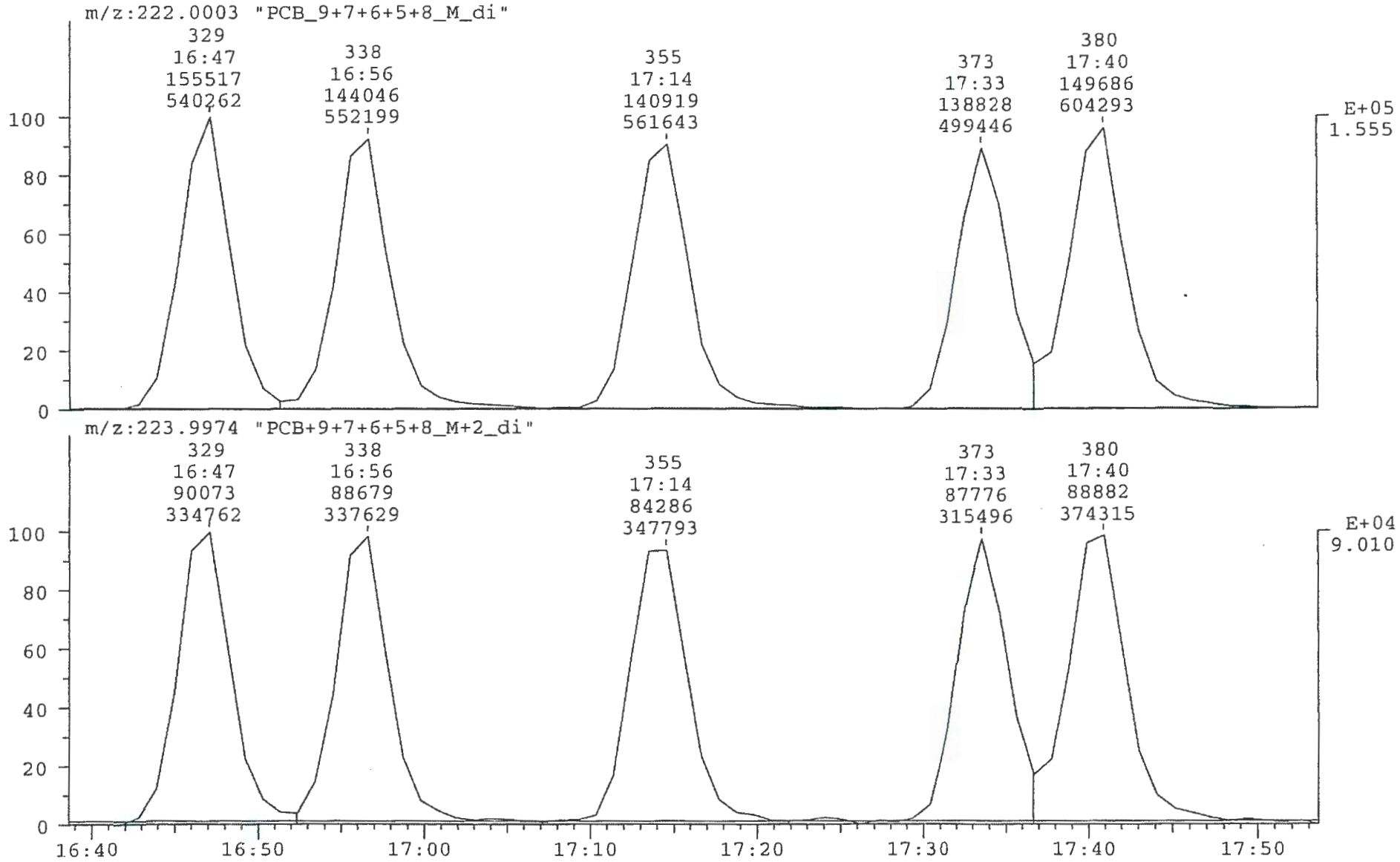


3027

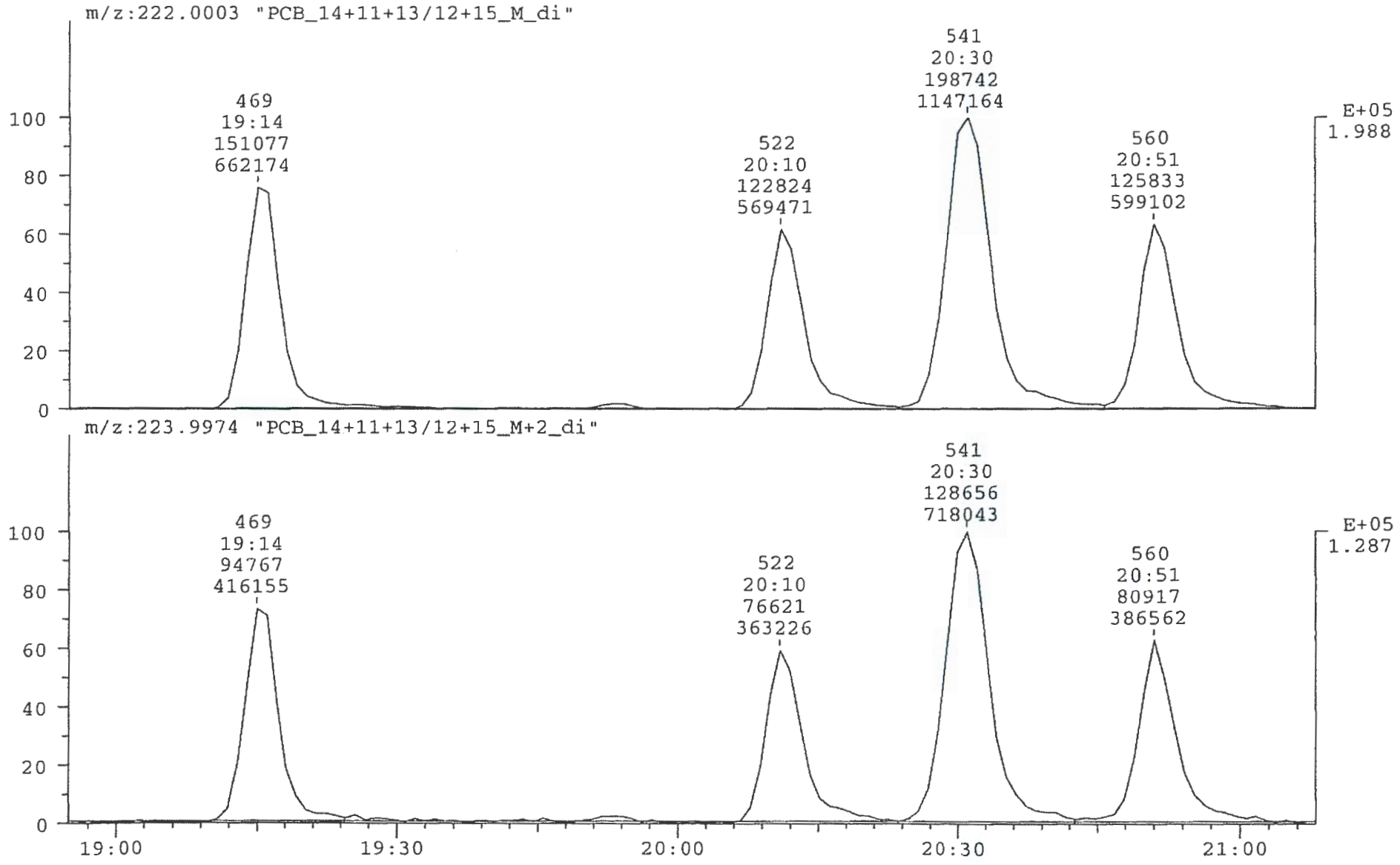
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  14:50.9      219
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   194 > 249            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



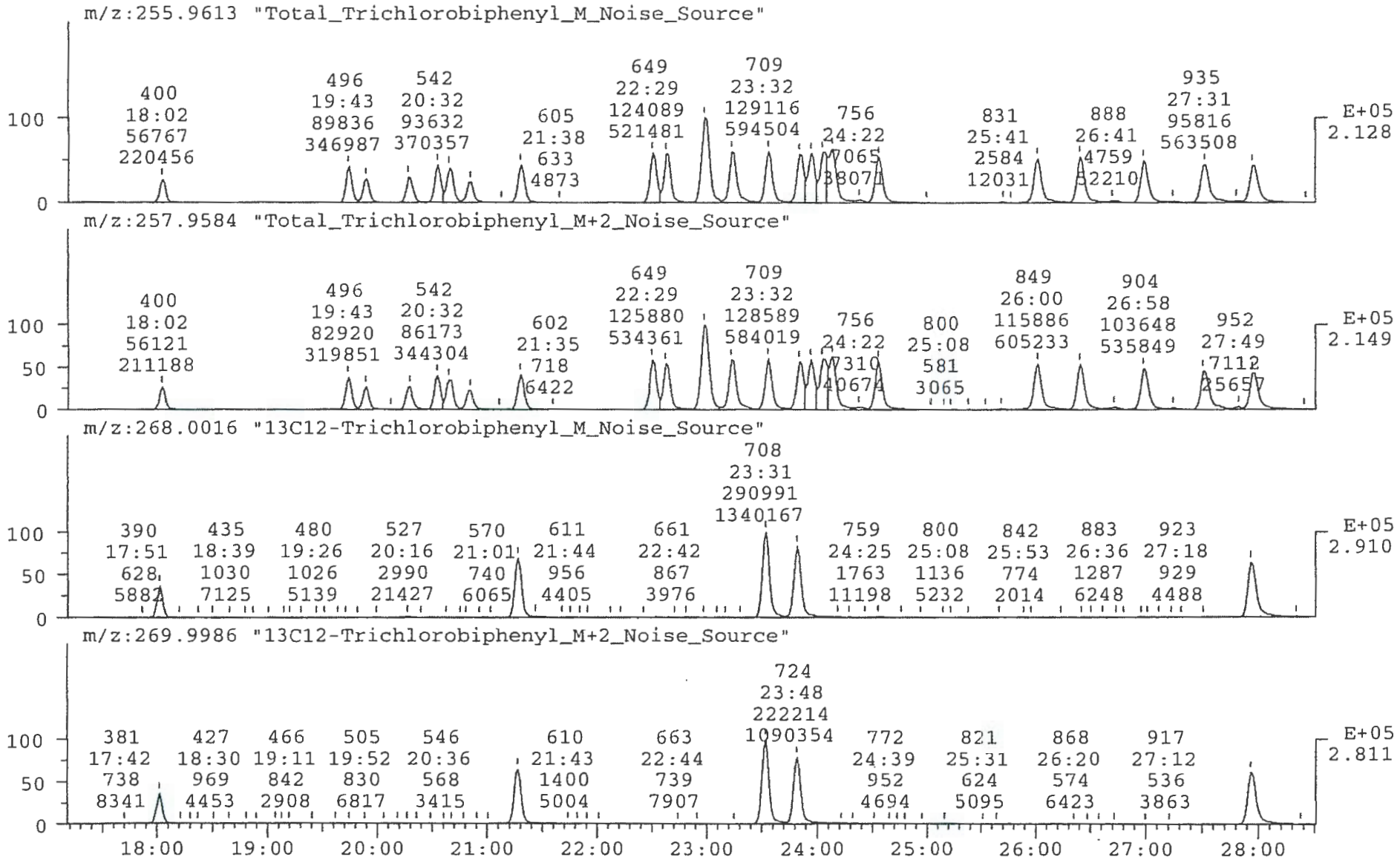
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  17:10.3      351
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   321 > 392            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



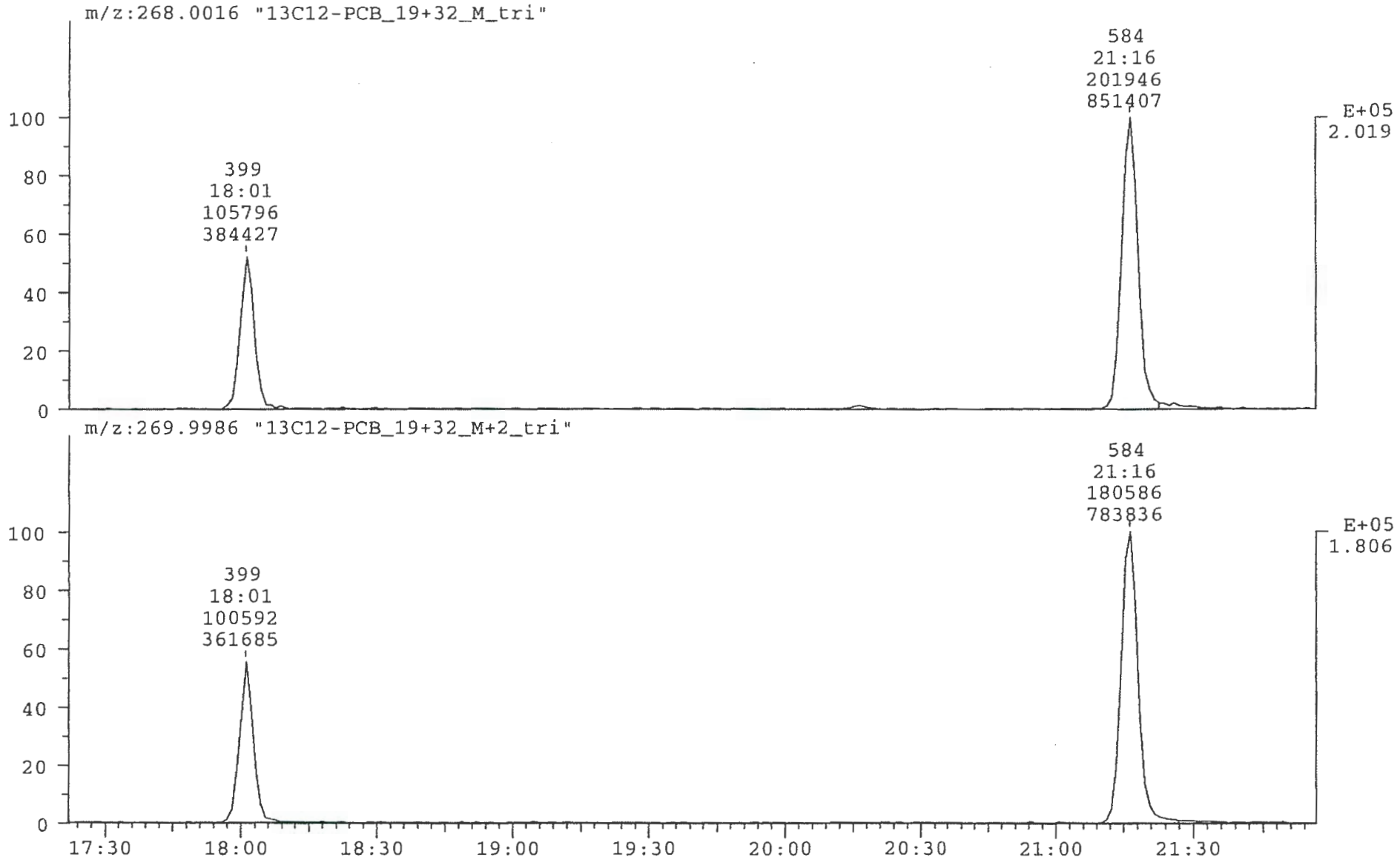
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  19:56.1      508
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   450 > 576            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
```



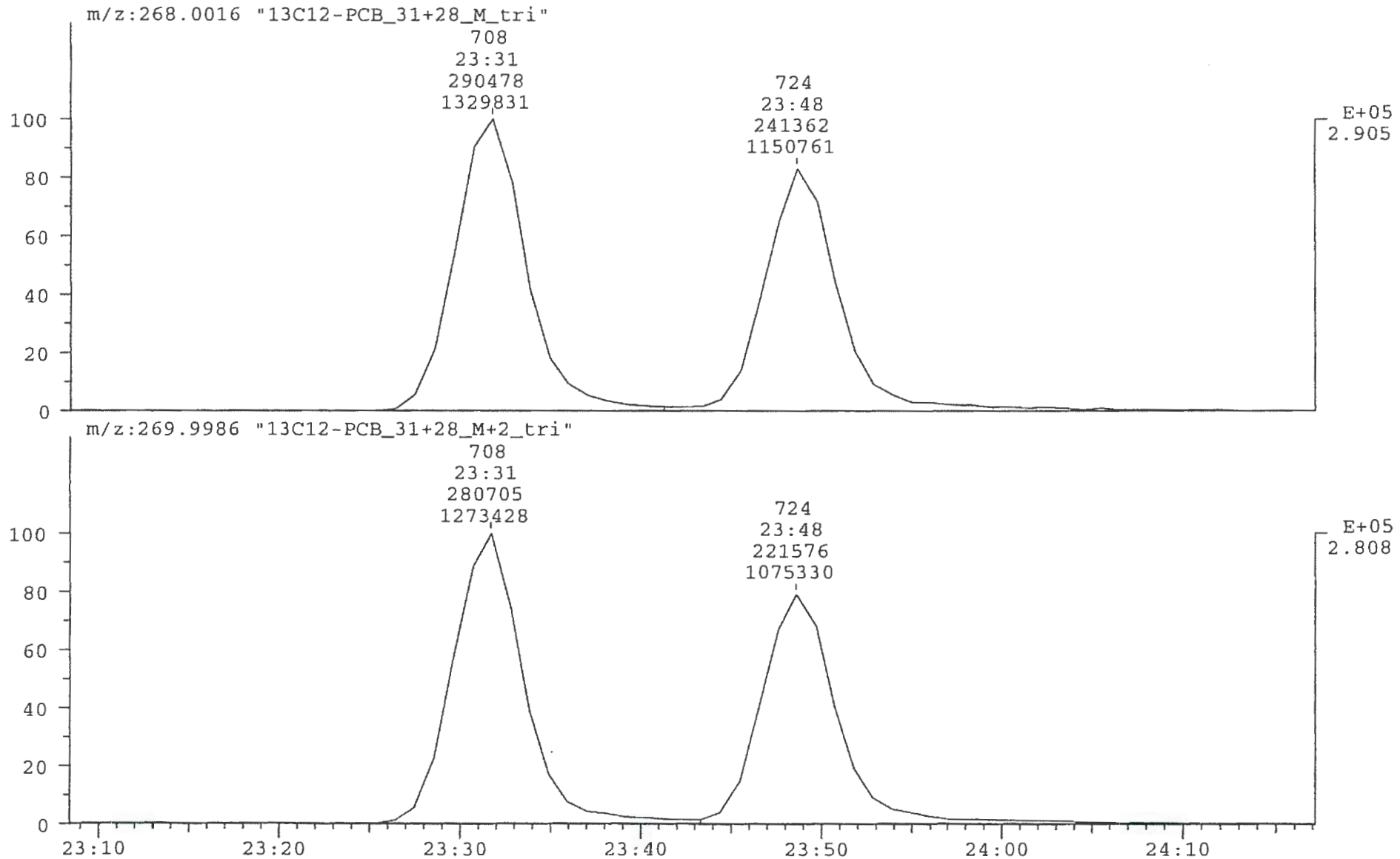
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  22:52.6      671
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   351 > 991            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



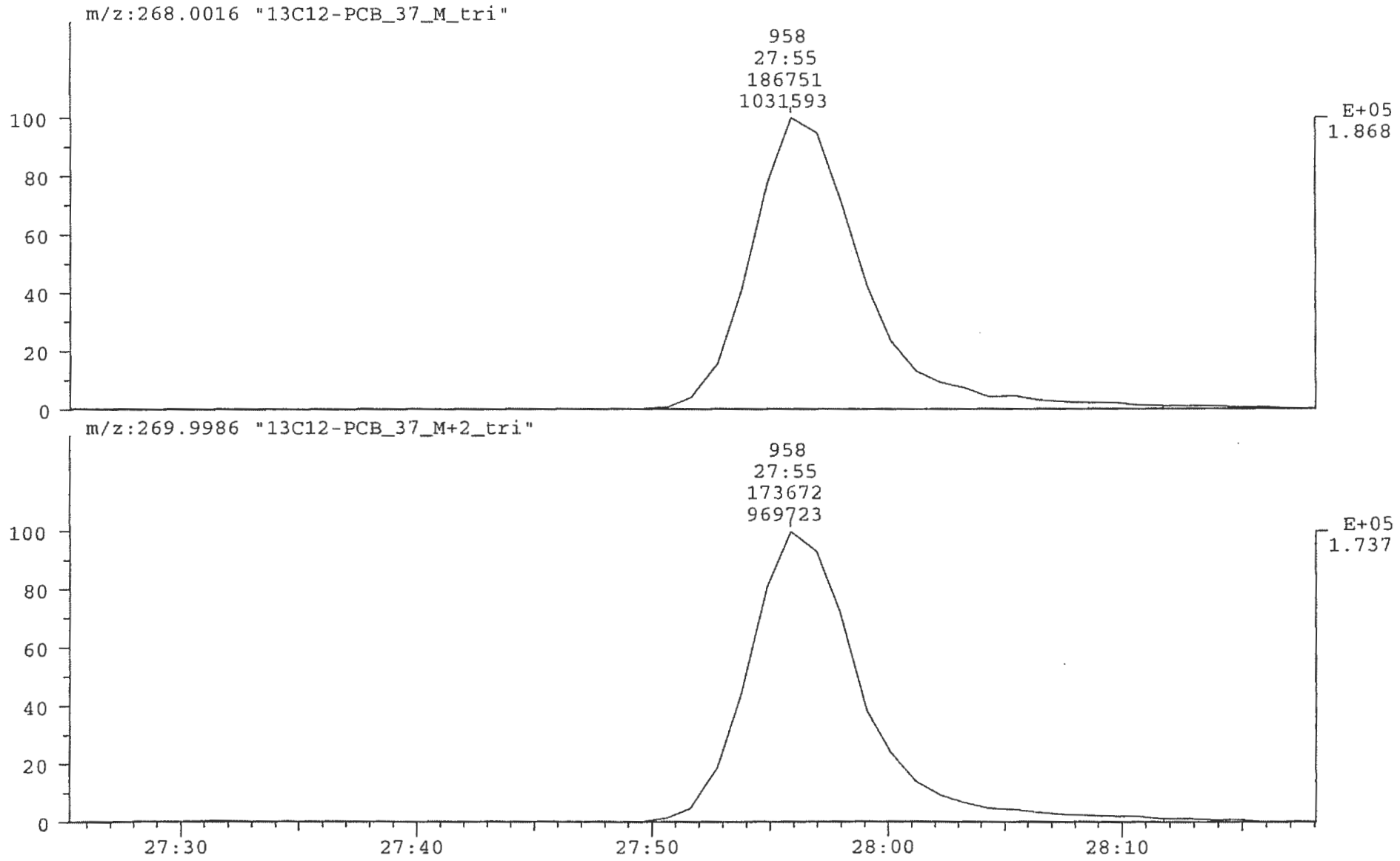
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  19:18.1      472
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=mld/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   362 > 622            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alac                                12-Oct-07   Elapse:  23:24.3      701
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   686 > 751            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

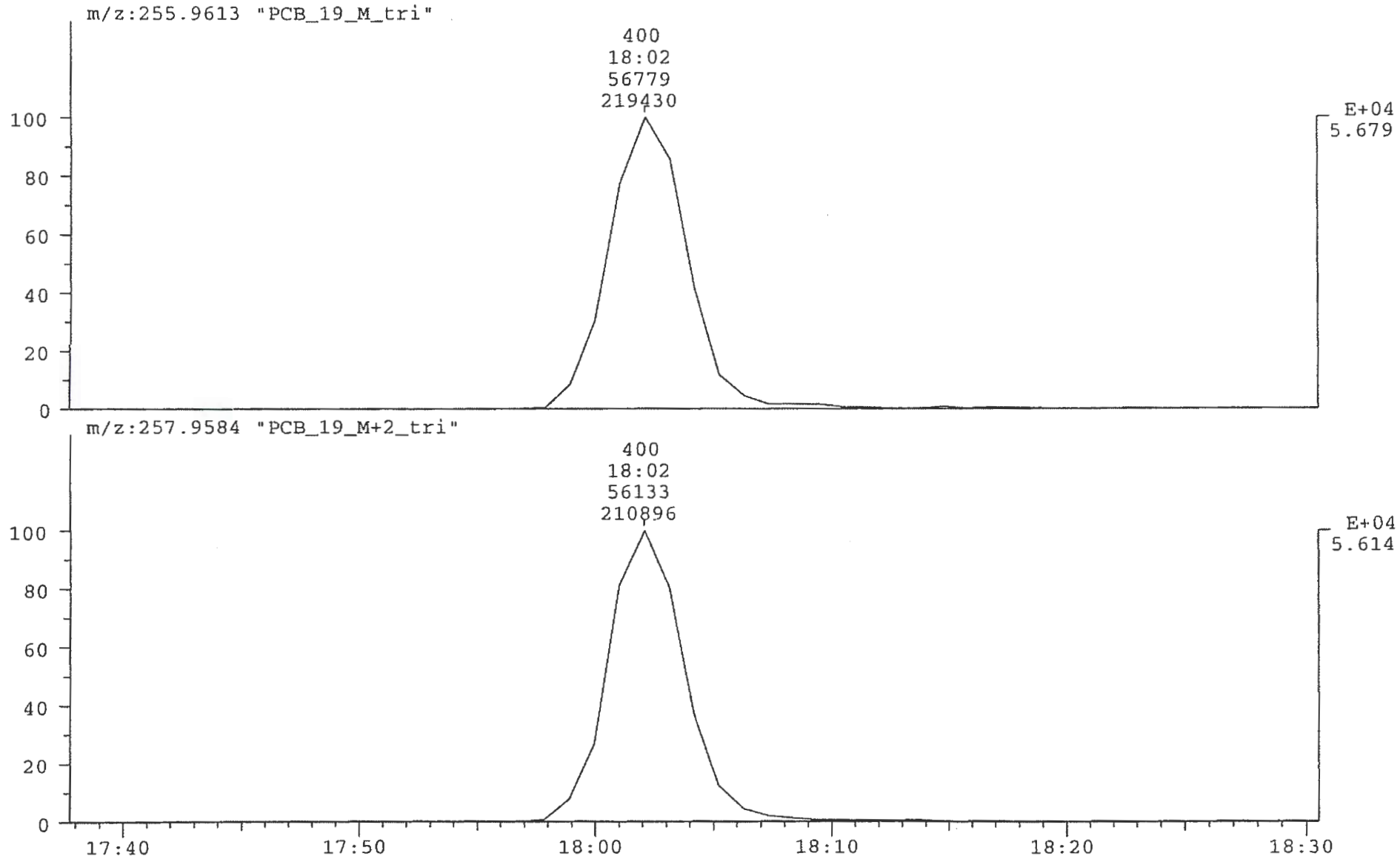


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  27:46.4      949
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   929 > 979            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

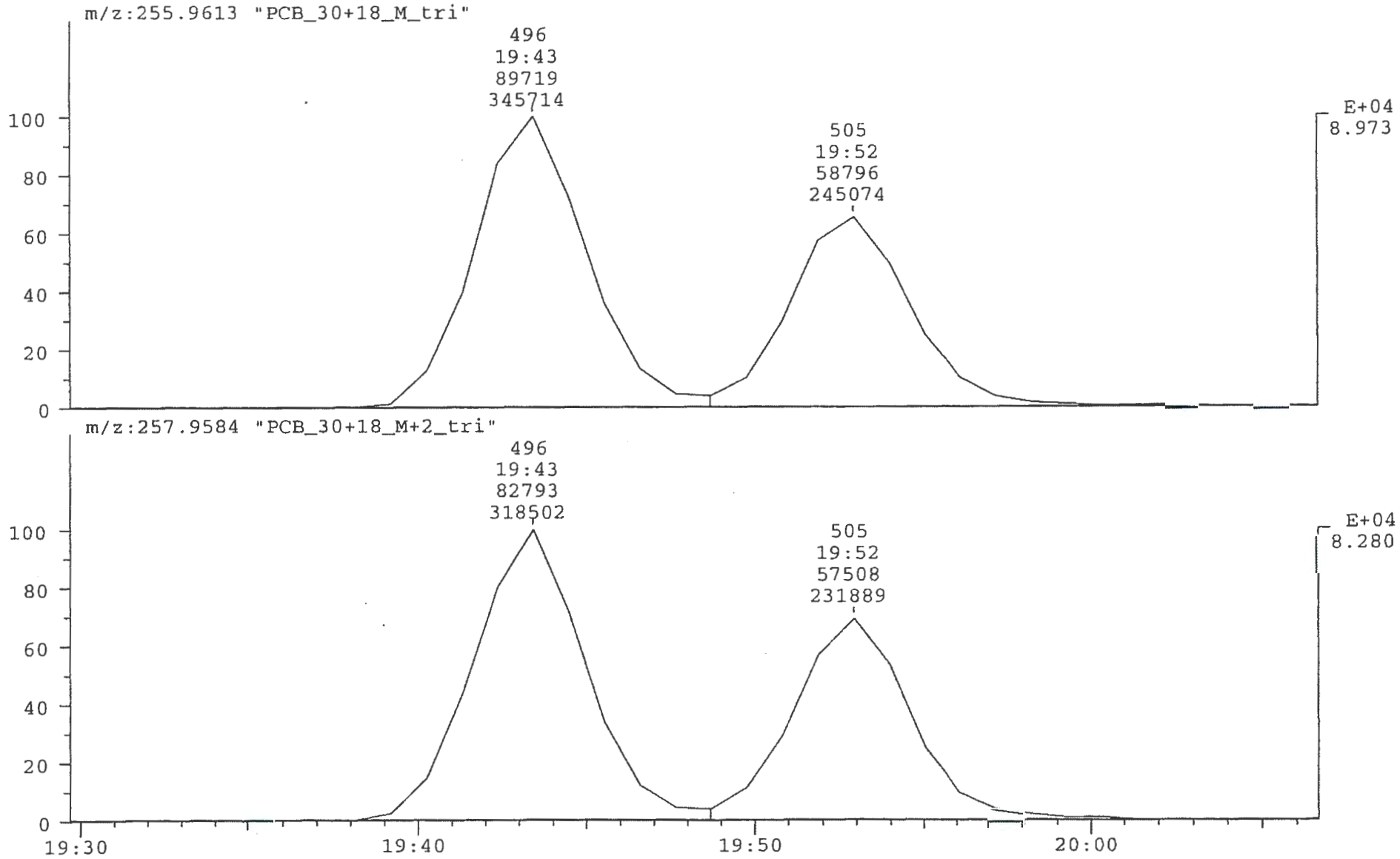


3034

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  17:53.6      392
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   377 > 427            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

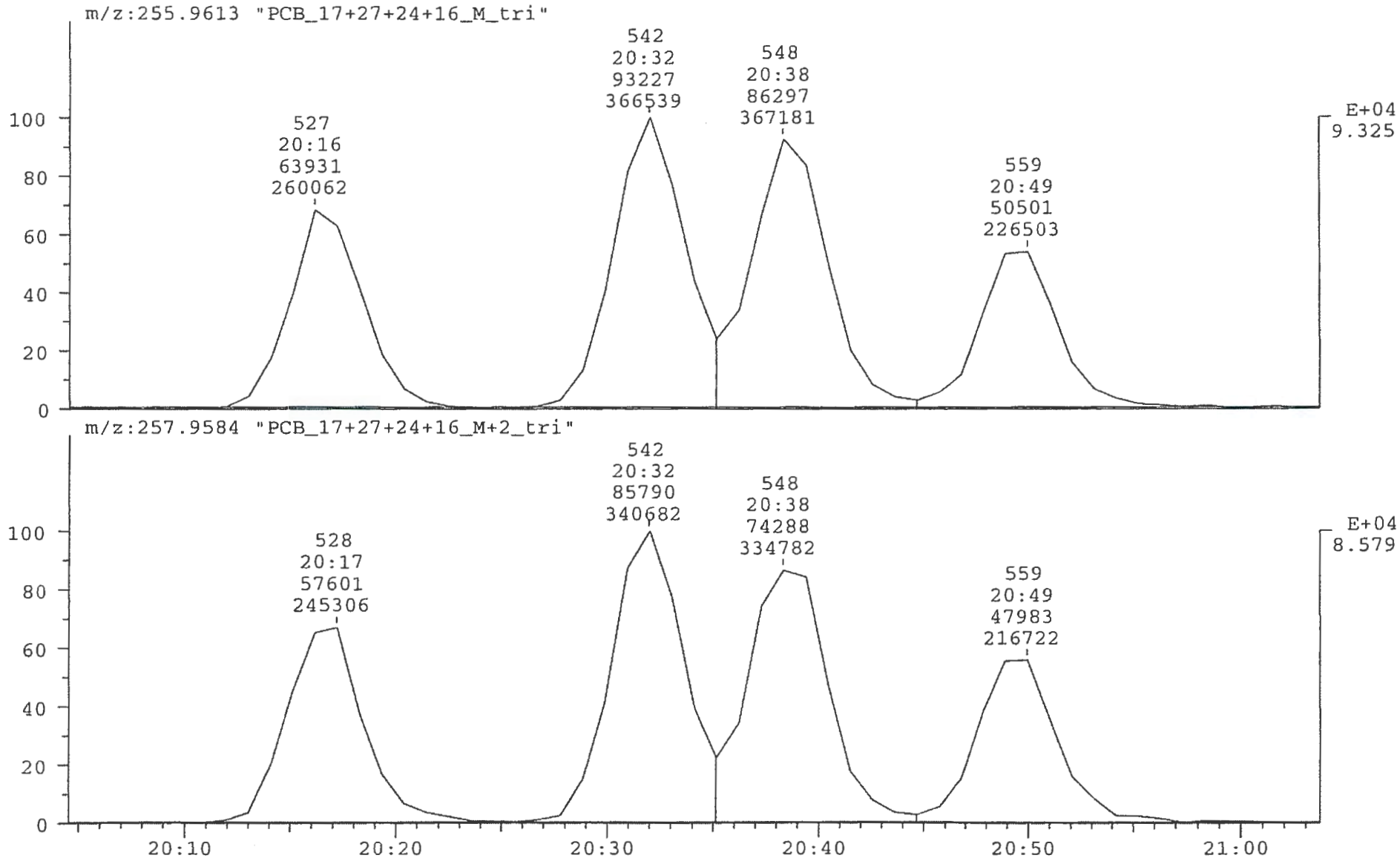


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  19:45.5      498
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   483 > 518            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

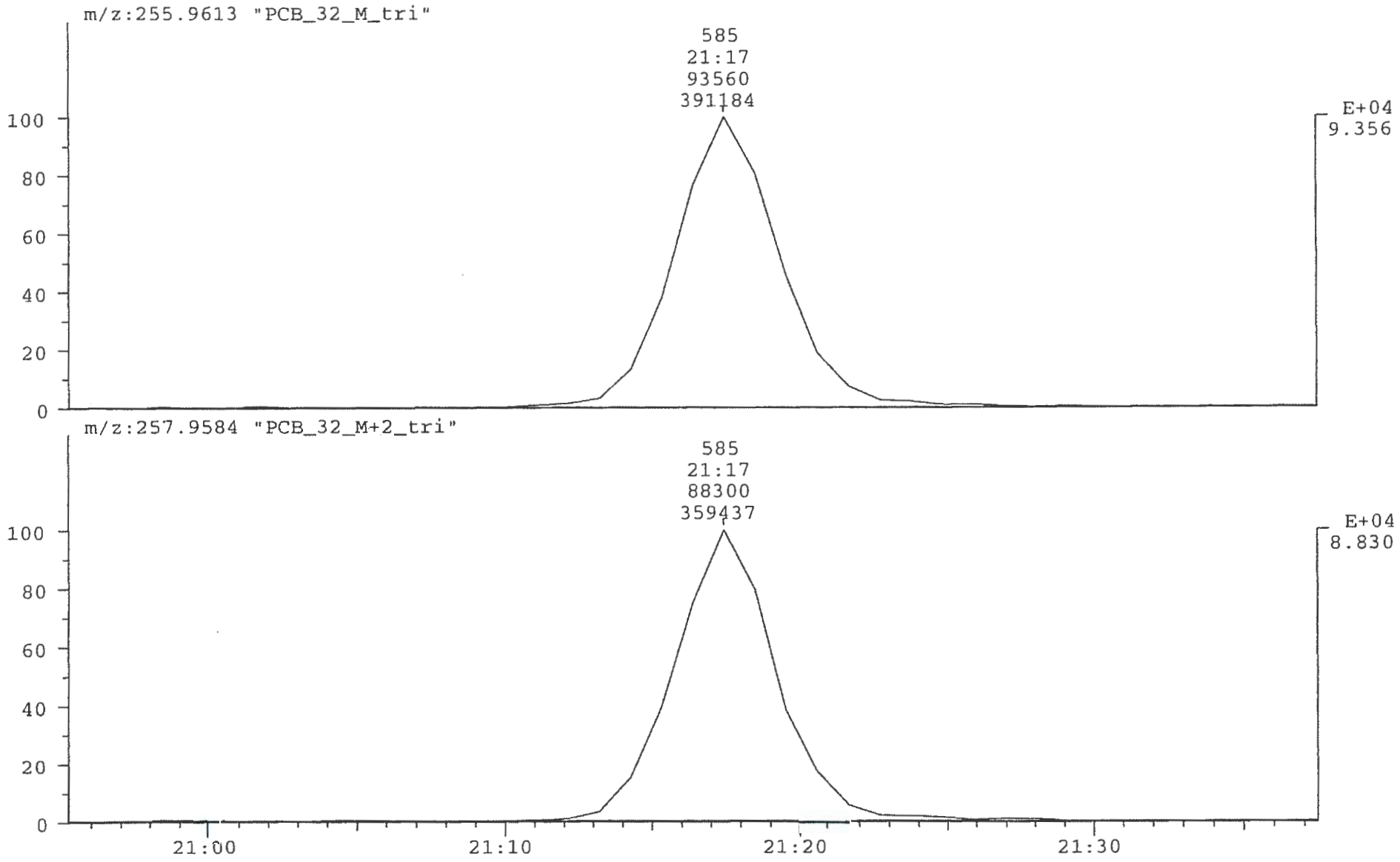


3036

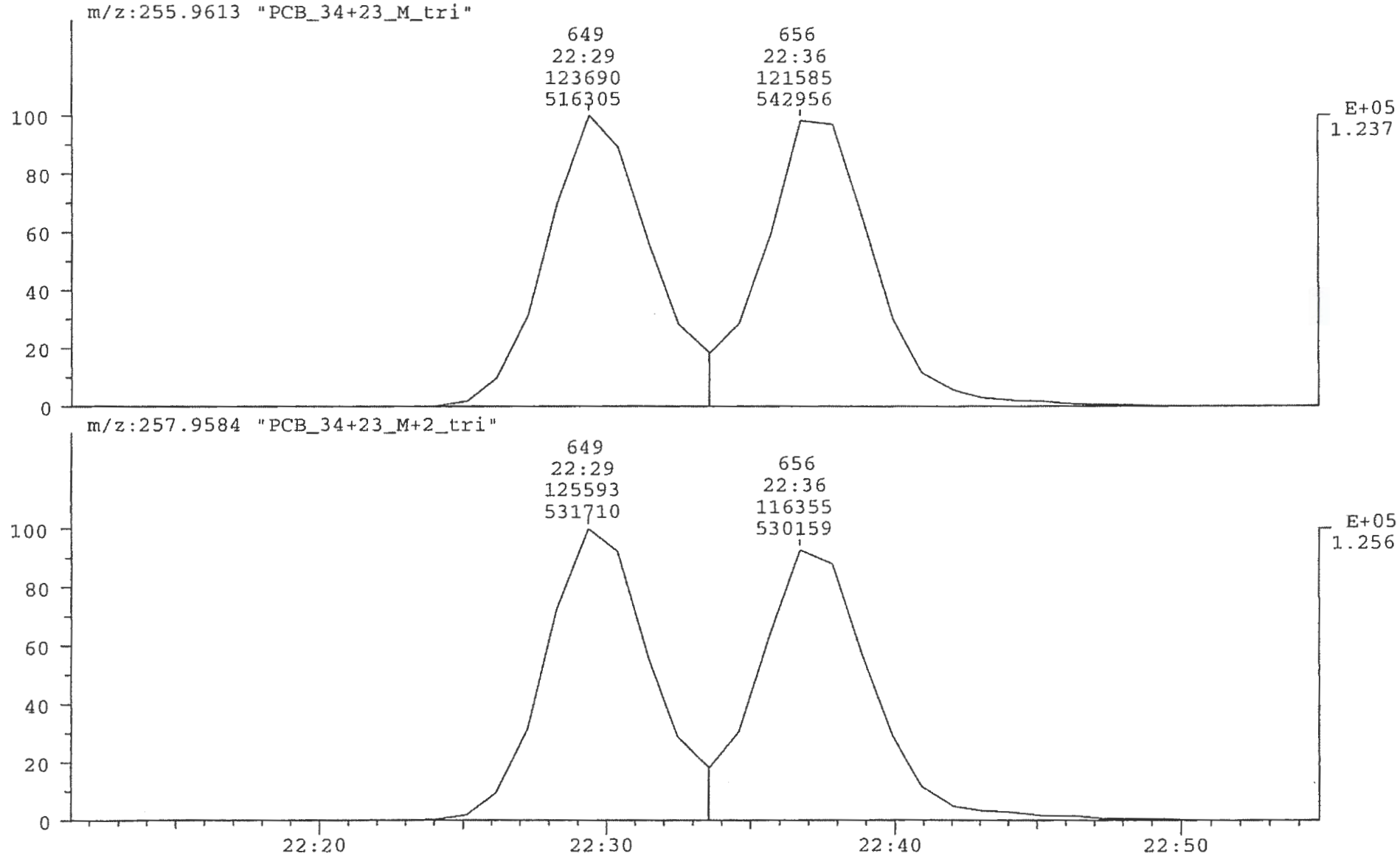
CHRO: apj8alac 12-Oct-07 Elapse: 20:26.7 537
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 516 > 572 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



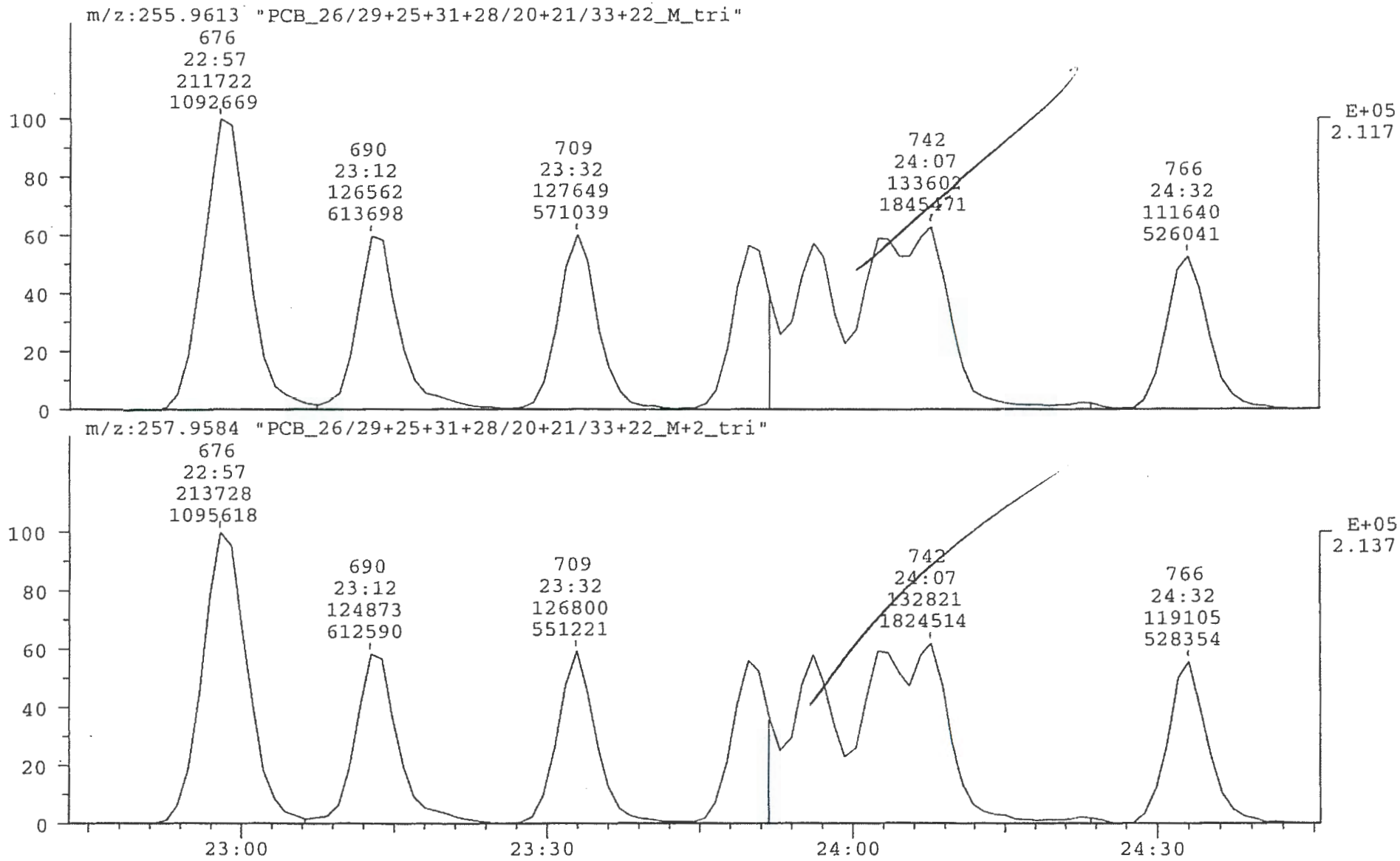
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  21:11.1      579
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   564 > 604            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alac                                12-Oct-07  Elapse:  22:24.0      644
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                 Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C             Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   632 > 673           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

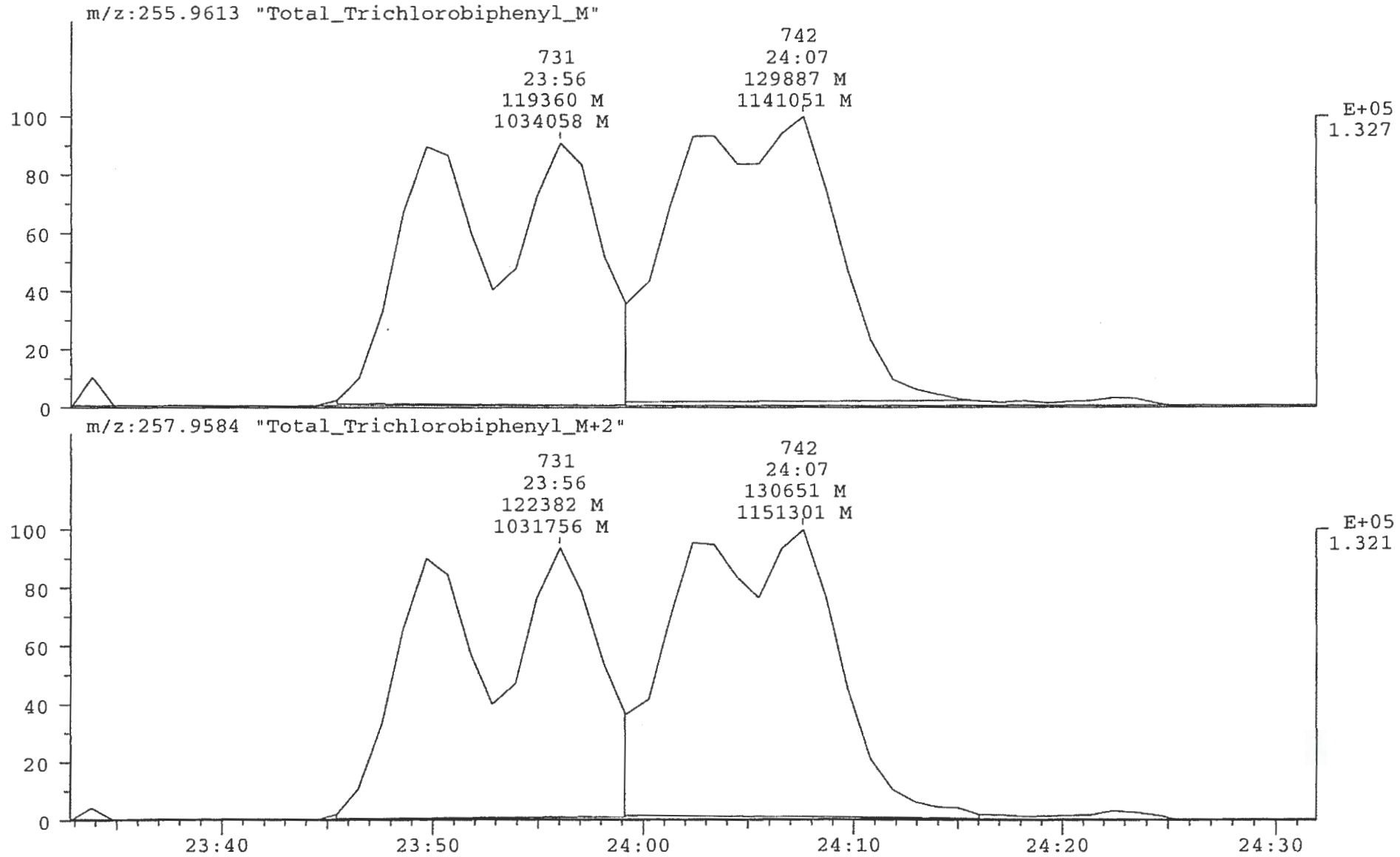


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  23:54.9      730
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   662 > 778            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 8               Label :  -3, 3.0
Disp:  Height  Area
```

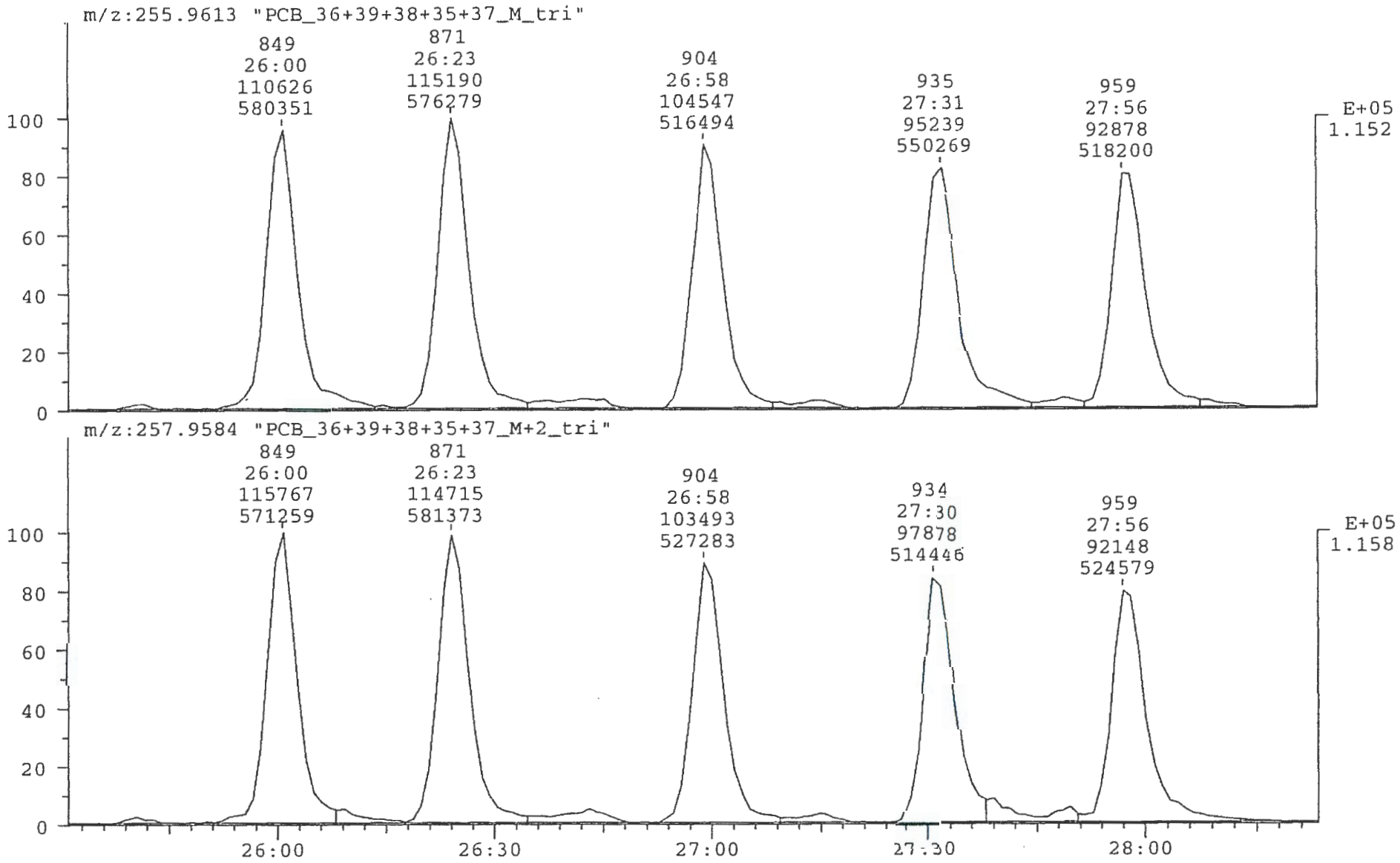


3040

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  24:07.6      742
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   709 > 765            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 8               Label :  -3, 3.0
Disp:  Height  Area
```

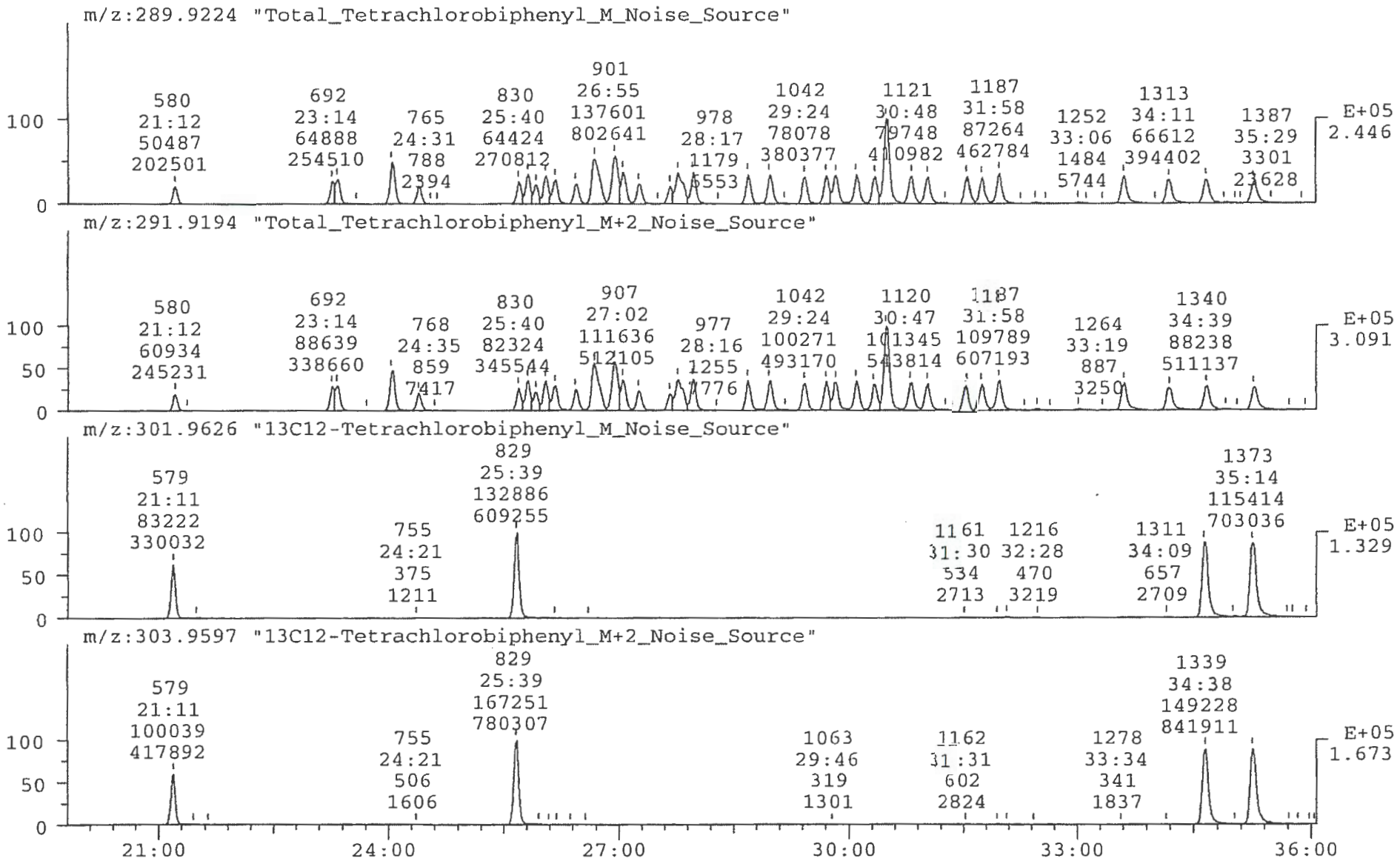


CHRO: apj8alac 12-Oct-07 Elapse: 26:53.5 899
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 821 > 984 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

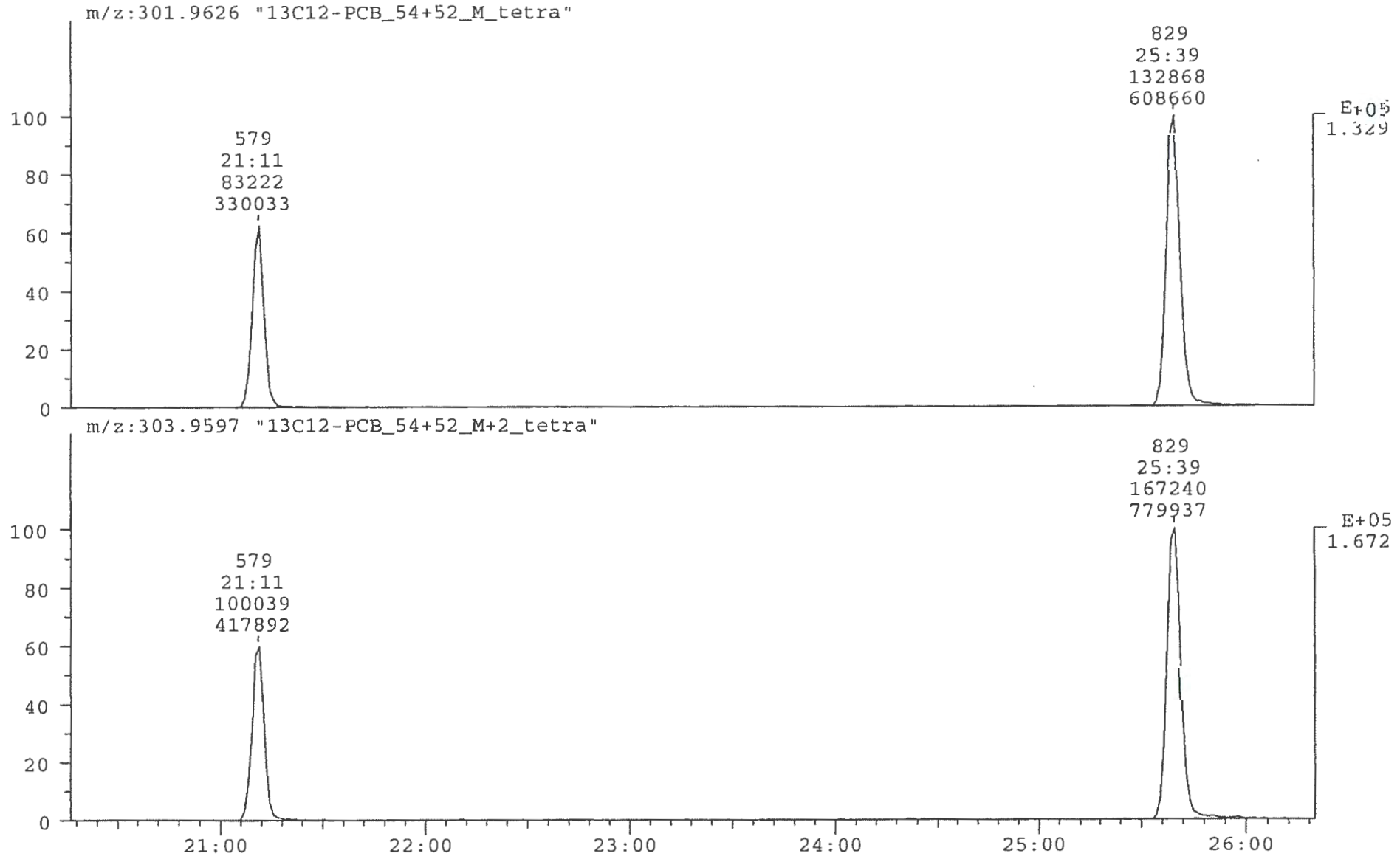


3042

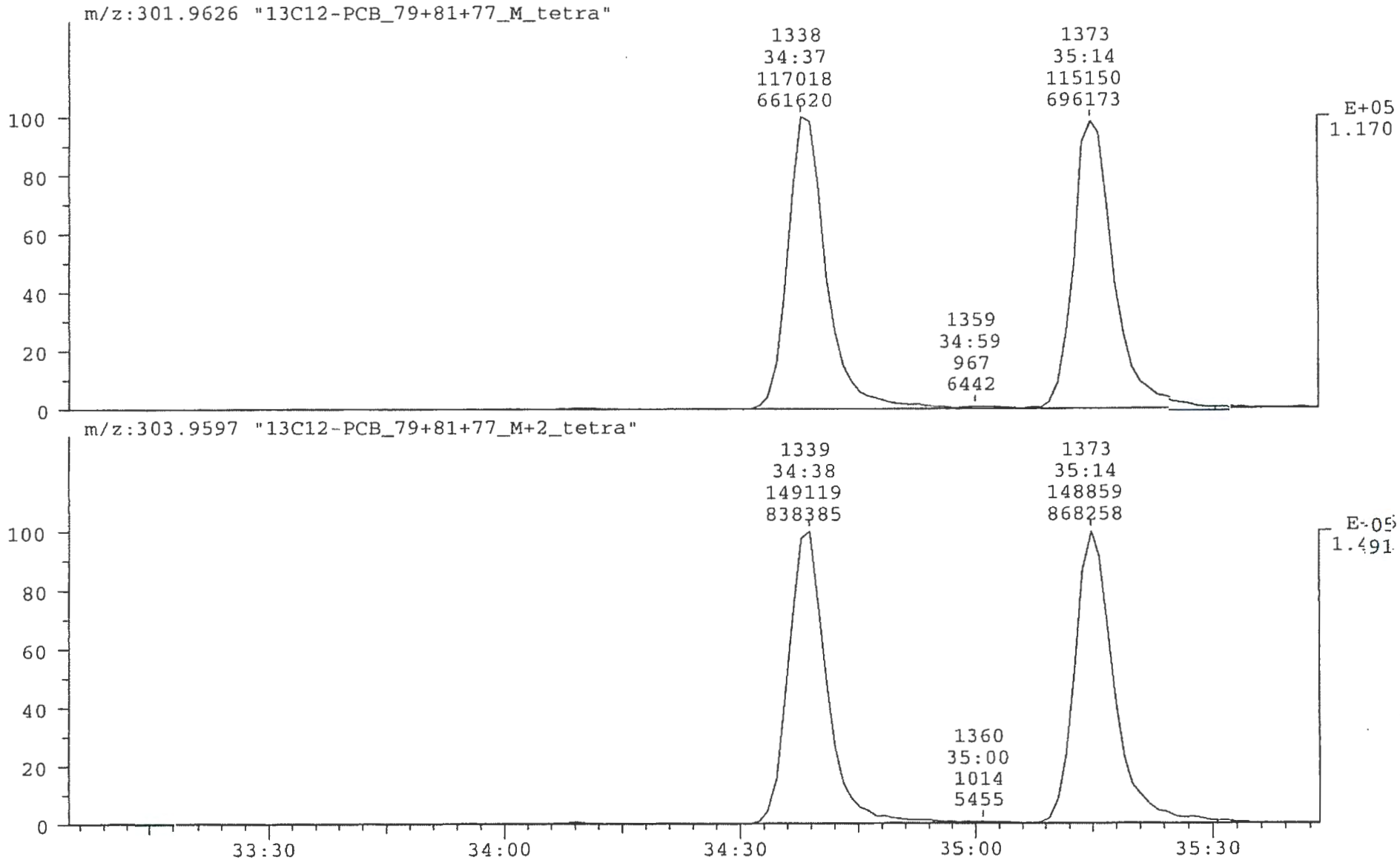
CHRO: apj8alac 12-Oct-07 Elapse: 27:55.8 958
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 500 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



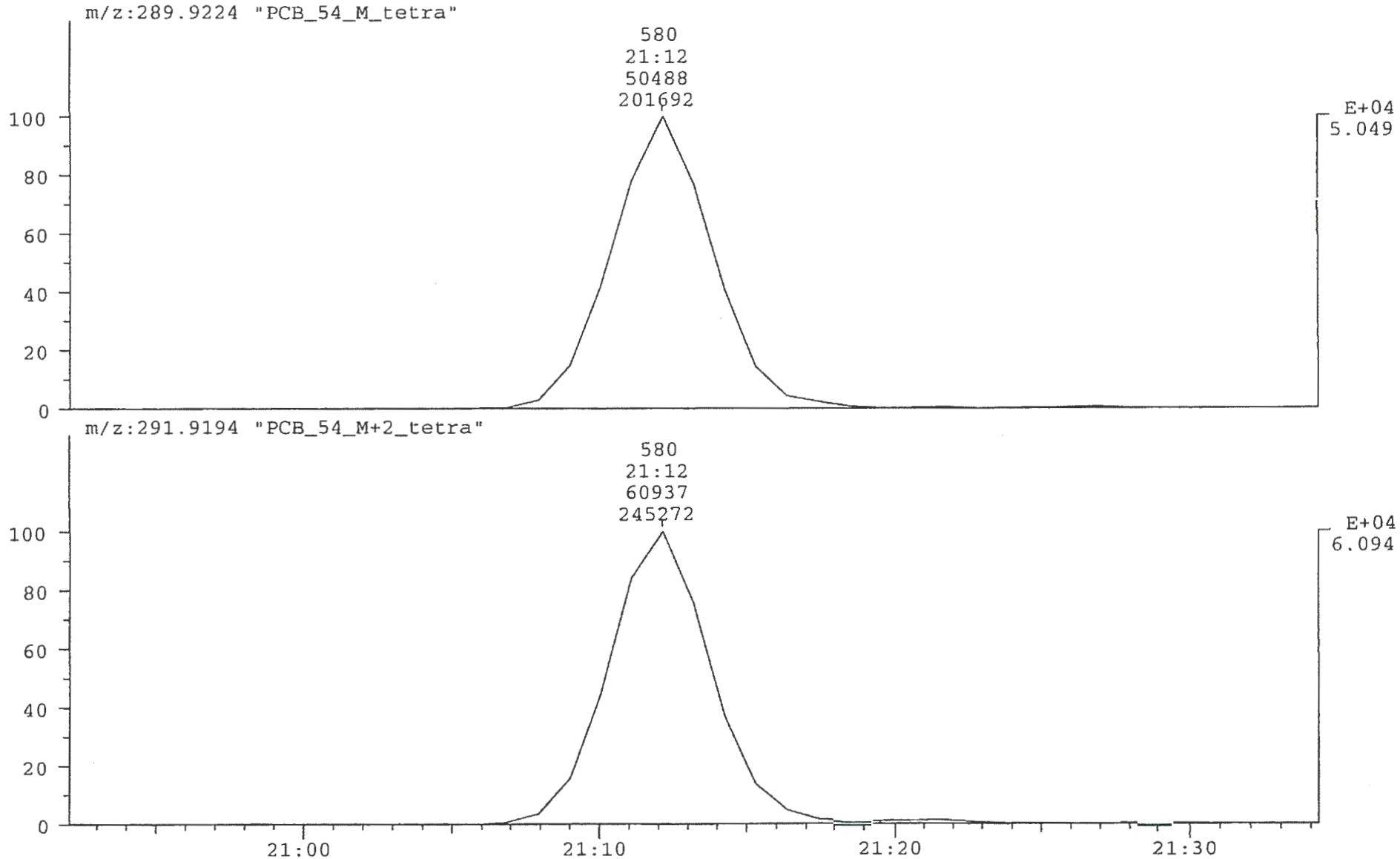
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  23:20.1      697
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   527 > 867            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



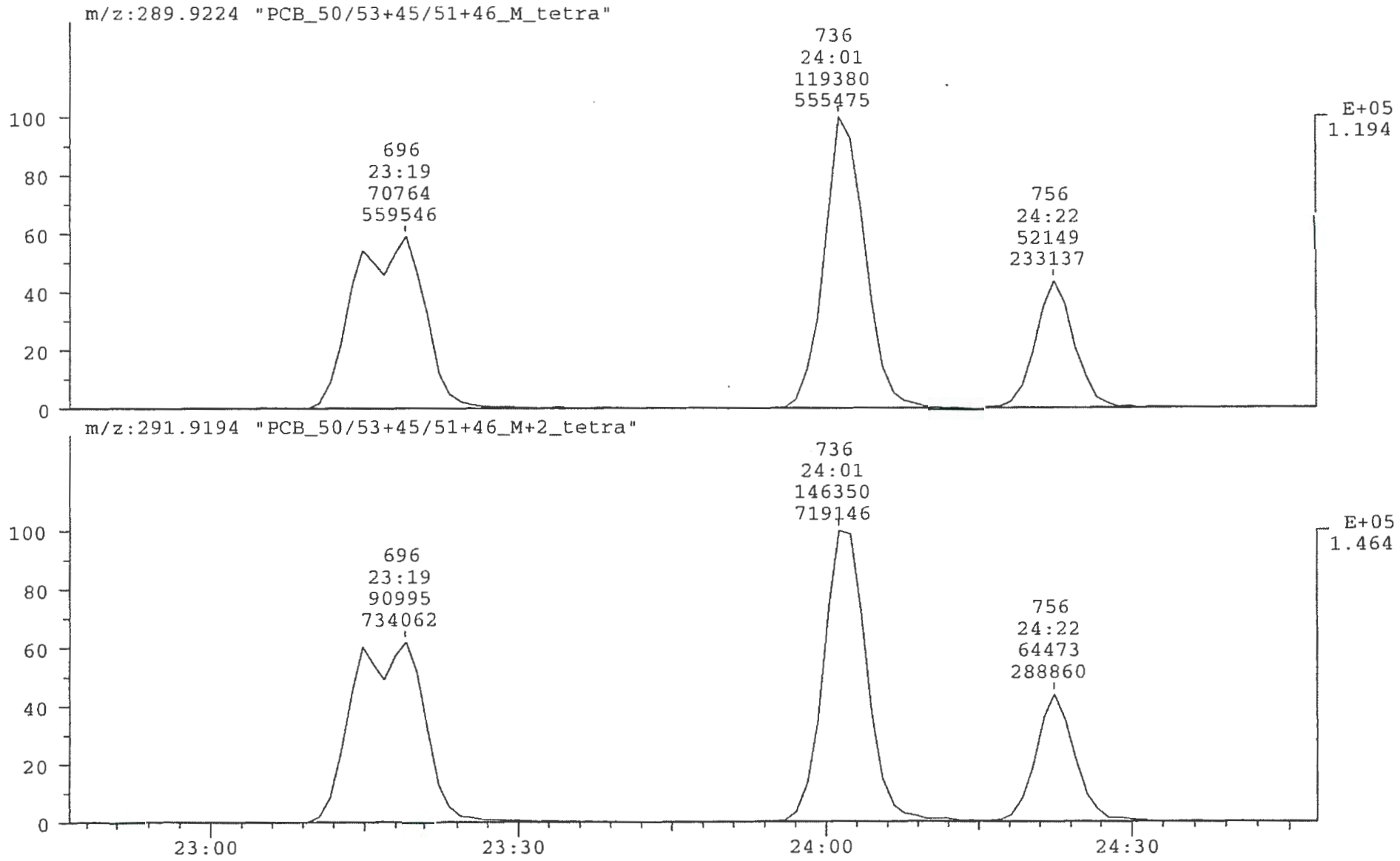
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  34:15      1317
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1250 > 1400          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alac                                12-Oct-07   Elapse:  21:02.6      571
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   561 > 601            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

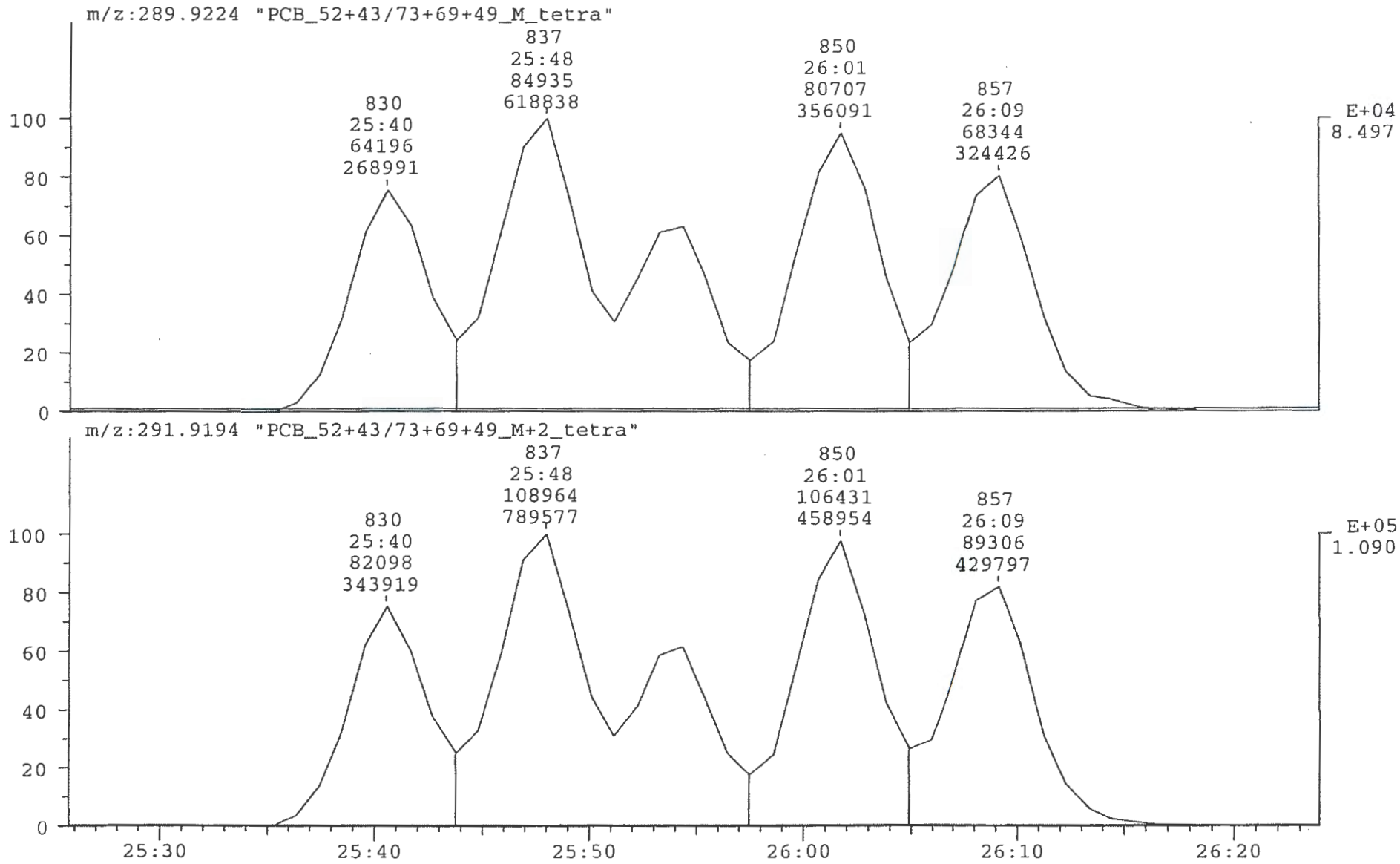


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  23:49.7      725
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   665 > 780            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9               Label :  -3, 3.0
Disp:  Height  Area
```

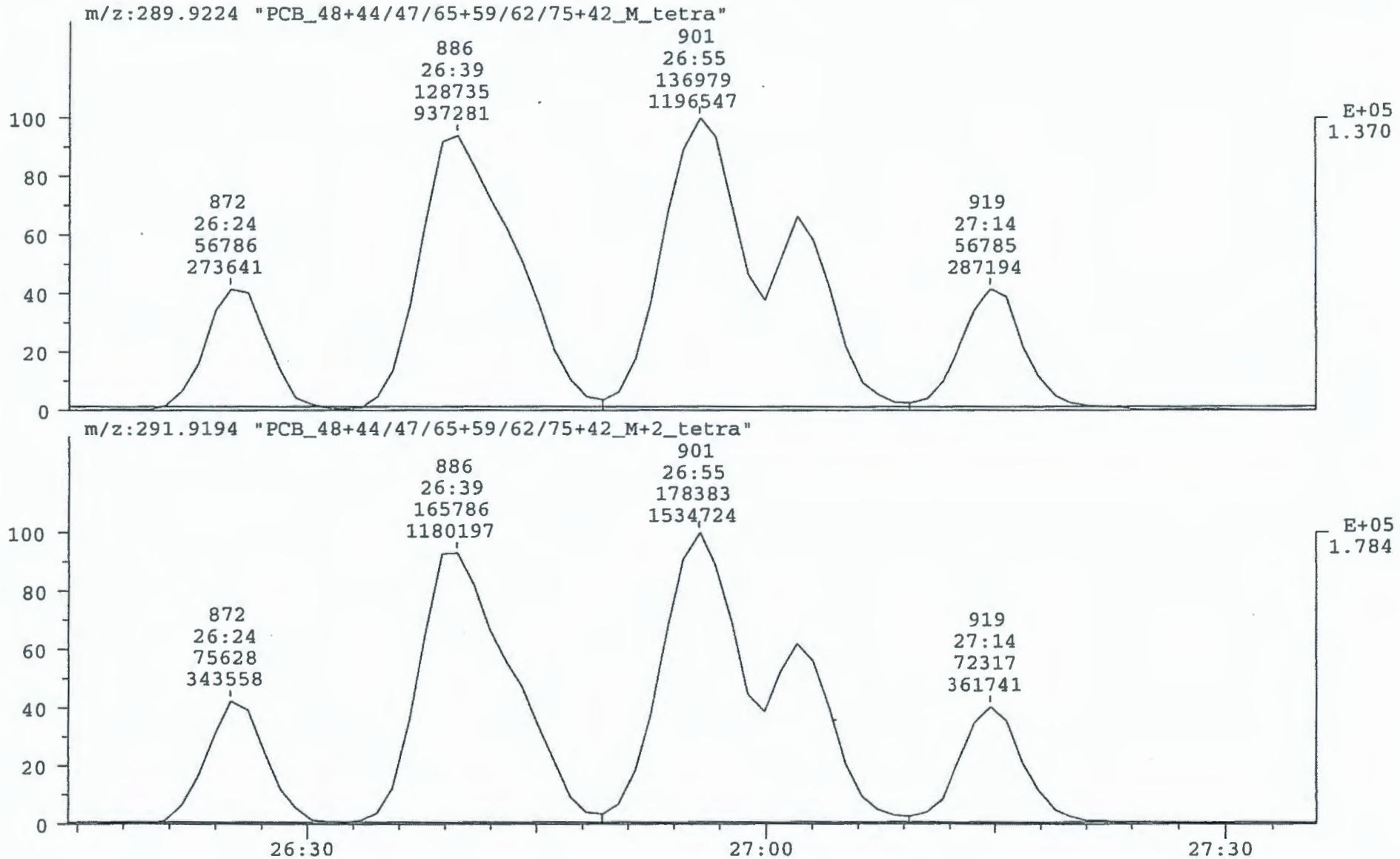


3047

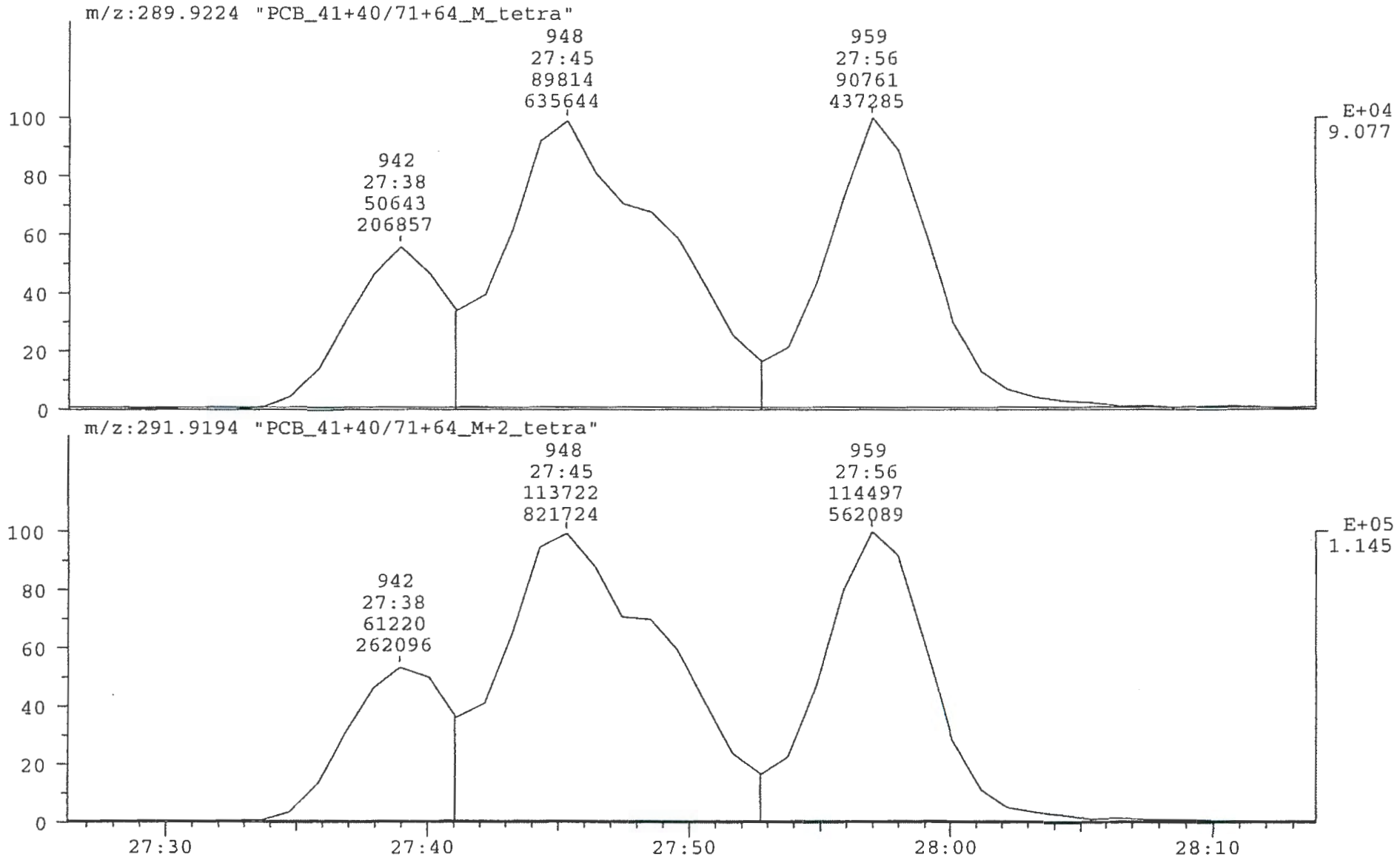
CHRO: apj8alac 12-Oct-07 Elapse: 25:52.2 841
Samp: Vial 11 WO=j8alalac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 816 > 871 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



```
CHRO:  apj8a1ac                                12-Oct-07   Elapse:  26:46.1      892
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   862 > 939            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5               Label :  -3, 3.0
Disp:  Height  Area
```

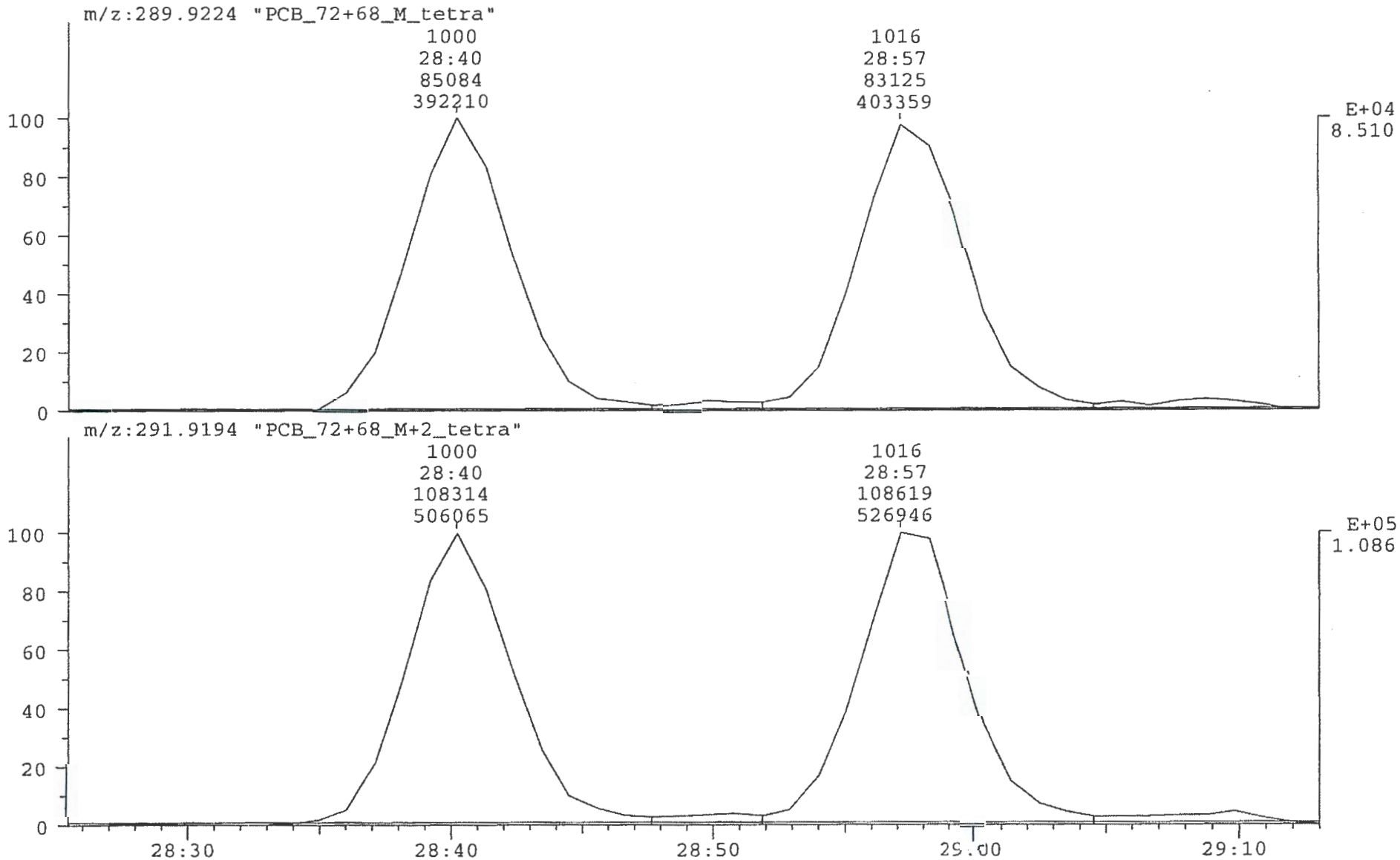


CHRO: apj8alac 12-Oct-07 Elapse: 27:47.4 950
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 930 > 975 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 2 Label : -3, 3.0
Disp: Height Area



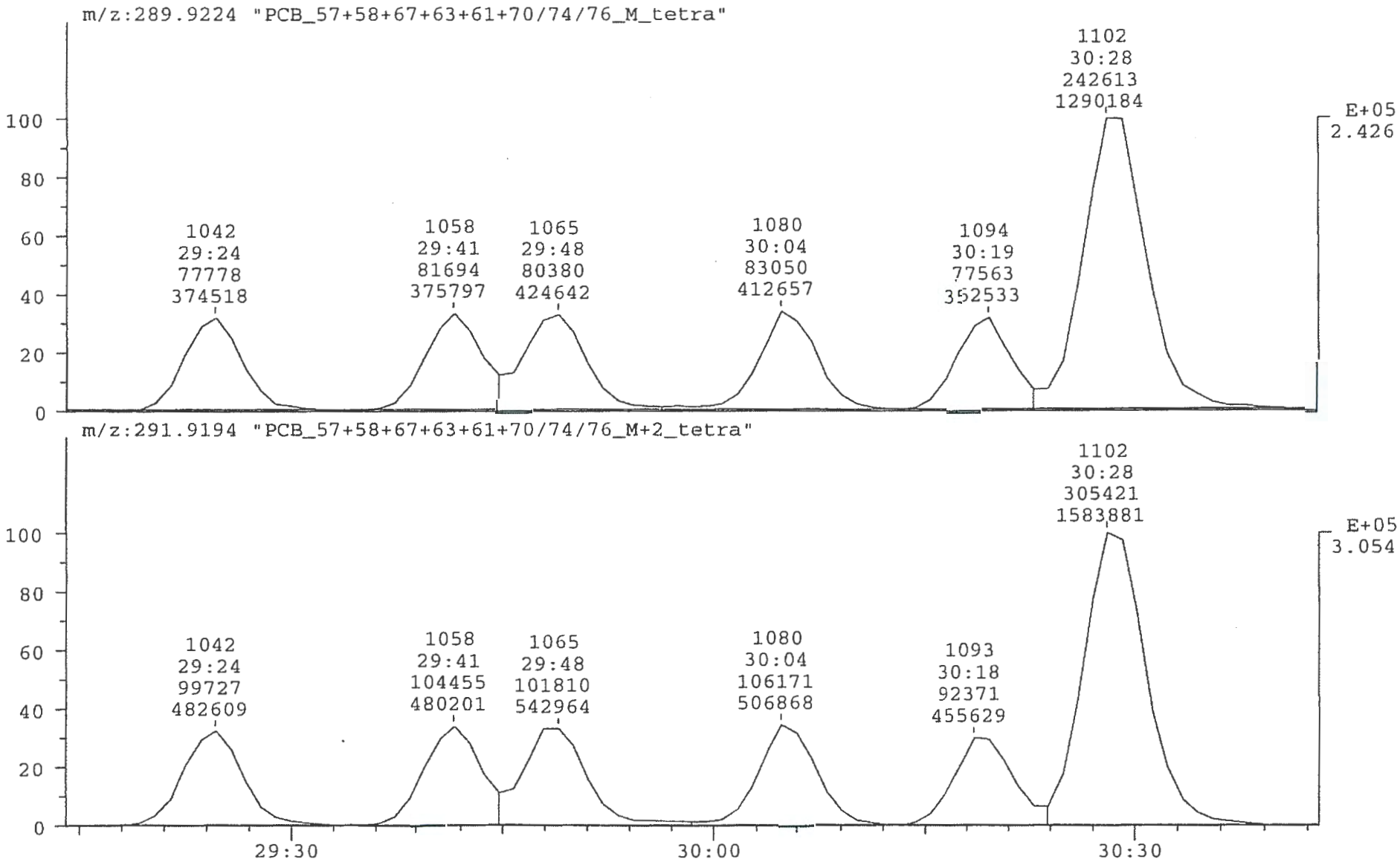
3050

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  28:46      1006
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   986 > 1031           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



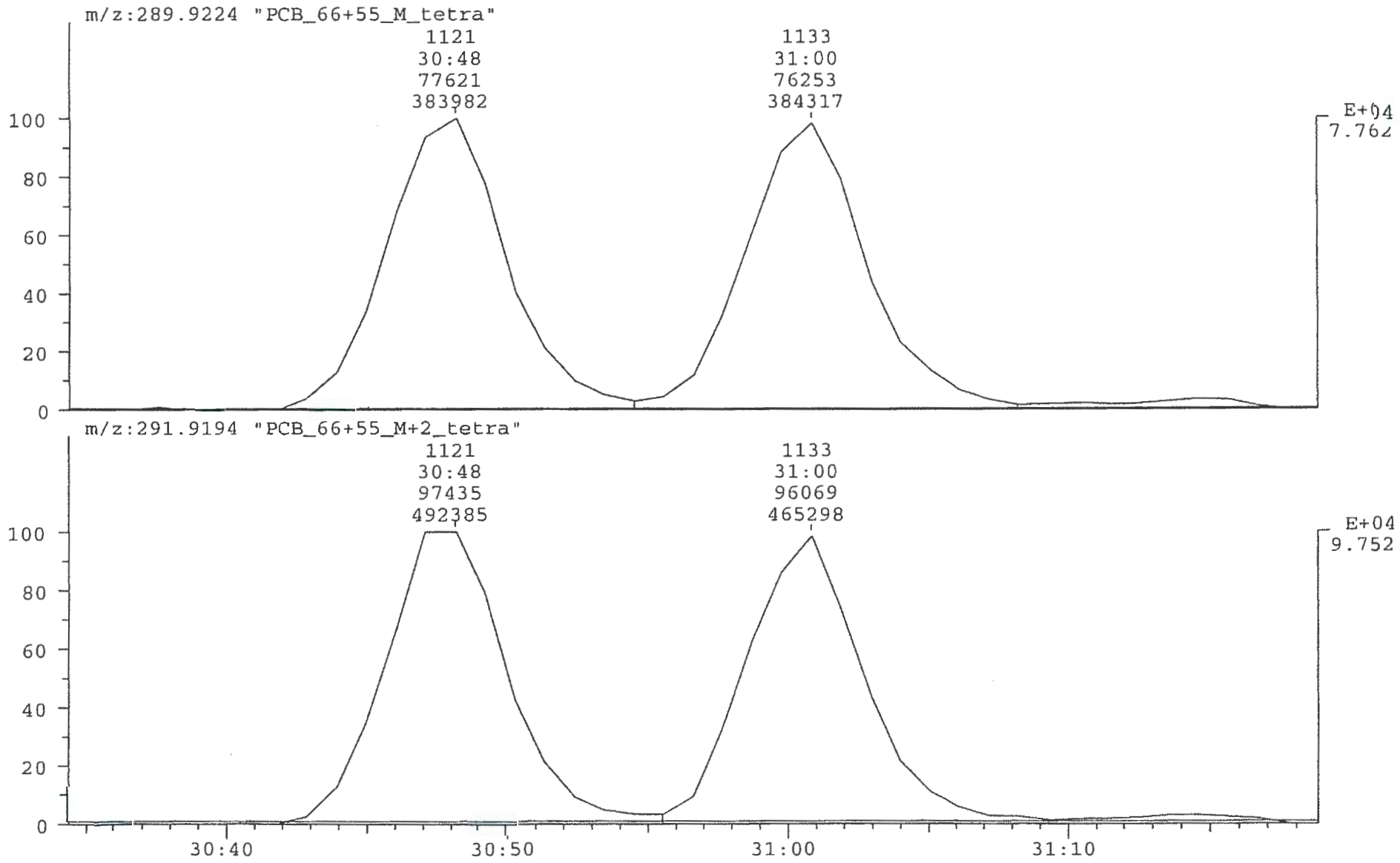
3051

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  29:53      1069
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial 11
Peak:  100.00  ppm      Label wndw:   1032 > 1116          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

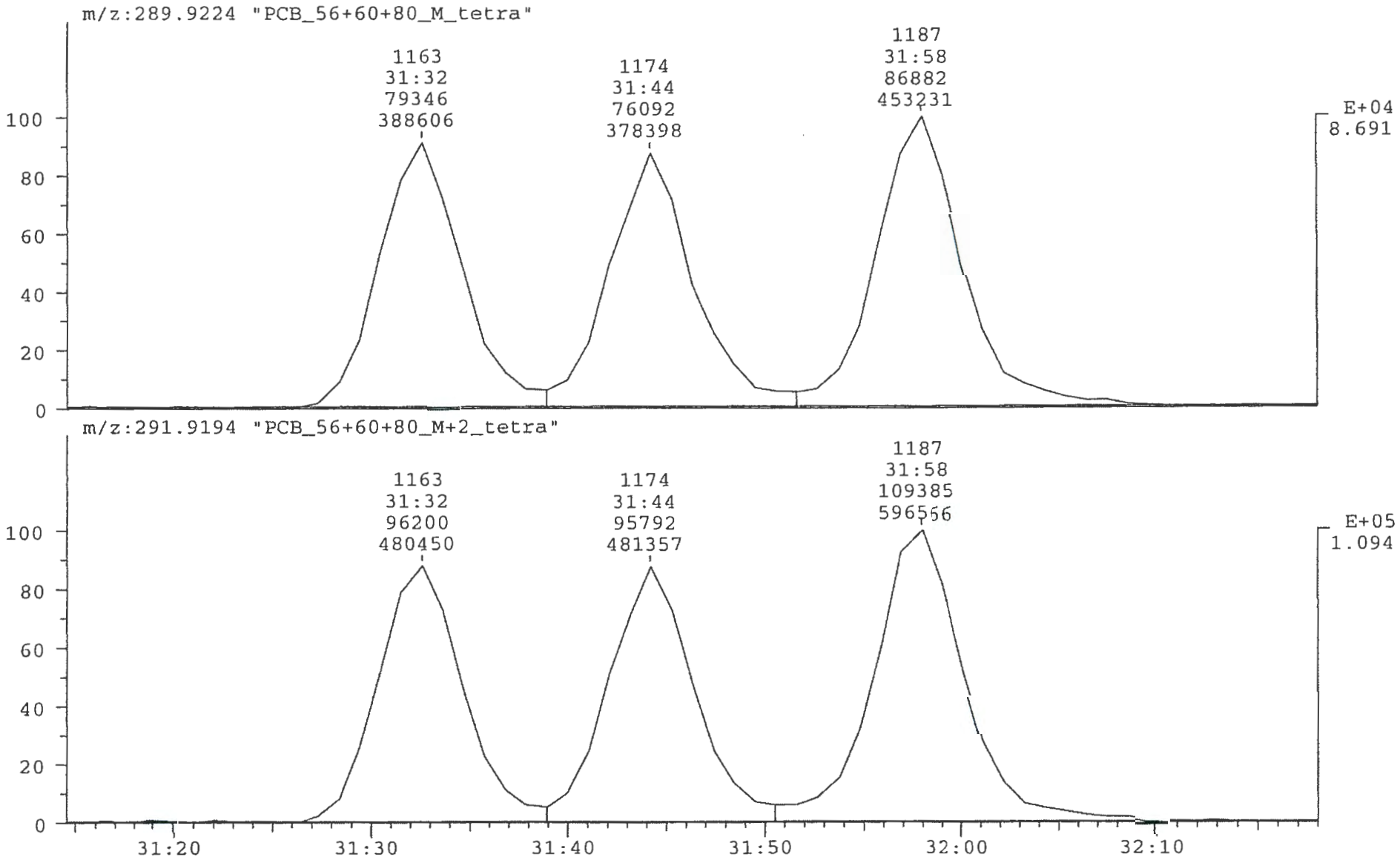


3052

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  30:50      1123
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial 11
Peak:  100.00  ppm      Label wndw:   1108 > 1150          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

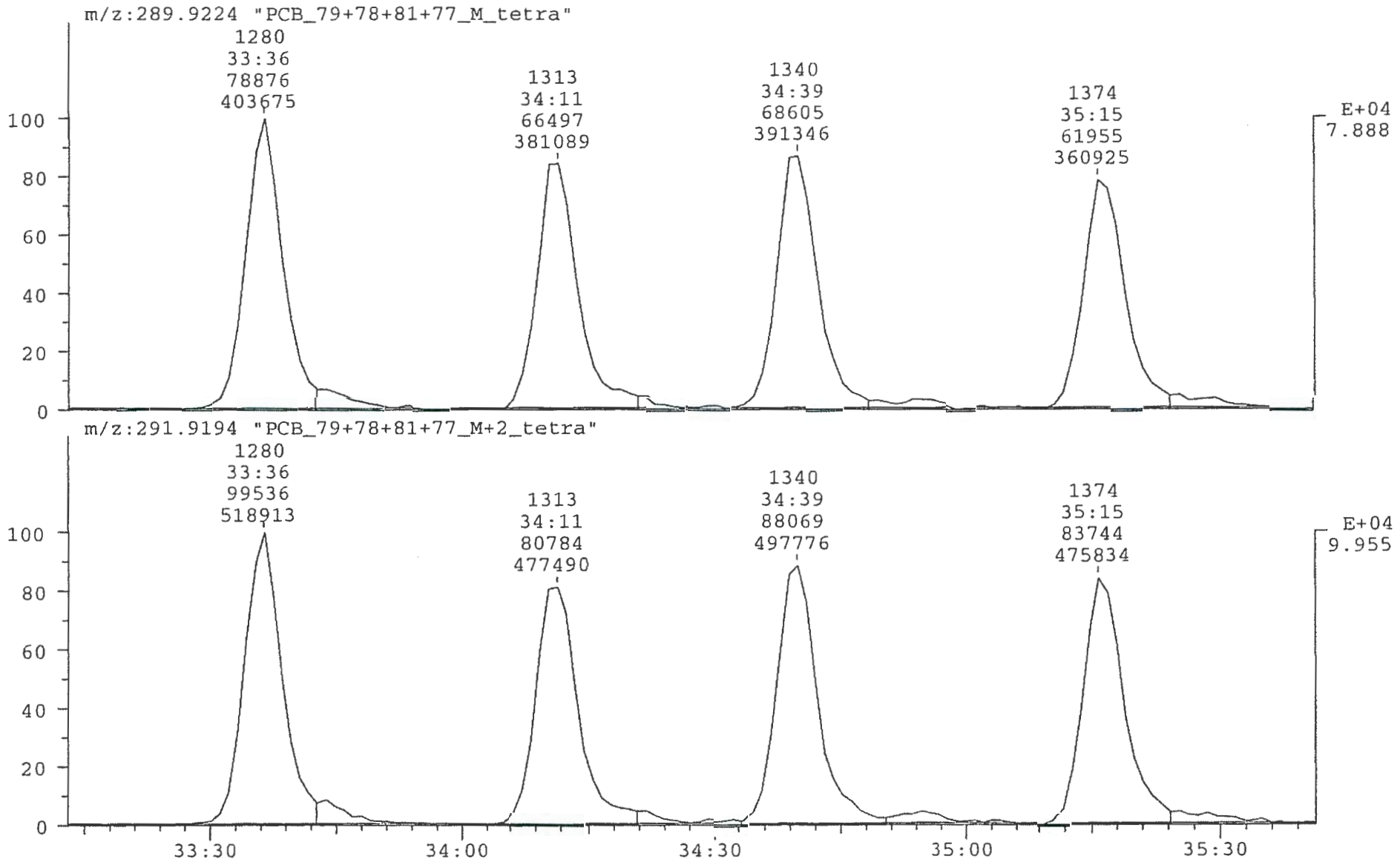


CHRO: apj8alac 12-Oct-07 Elapse: 31:41 1171
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1146 > 1206 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



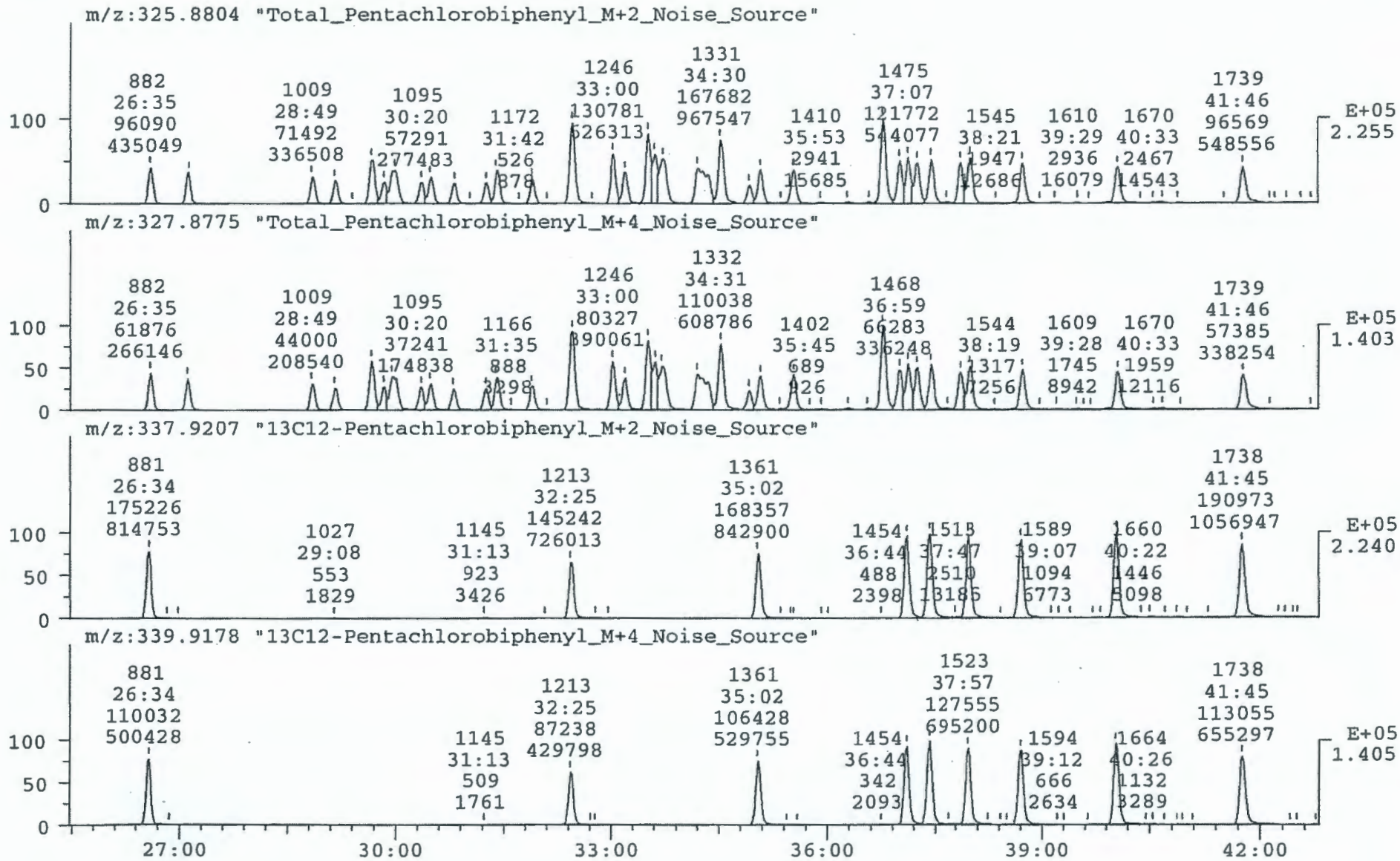
3054

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  34:16      1318
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1258 > 1398          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```

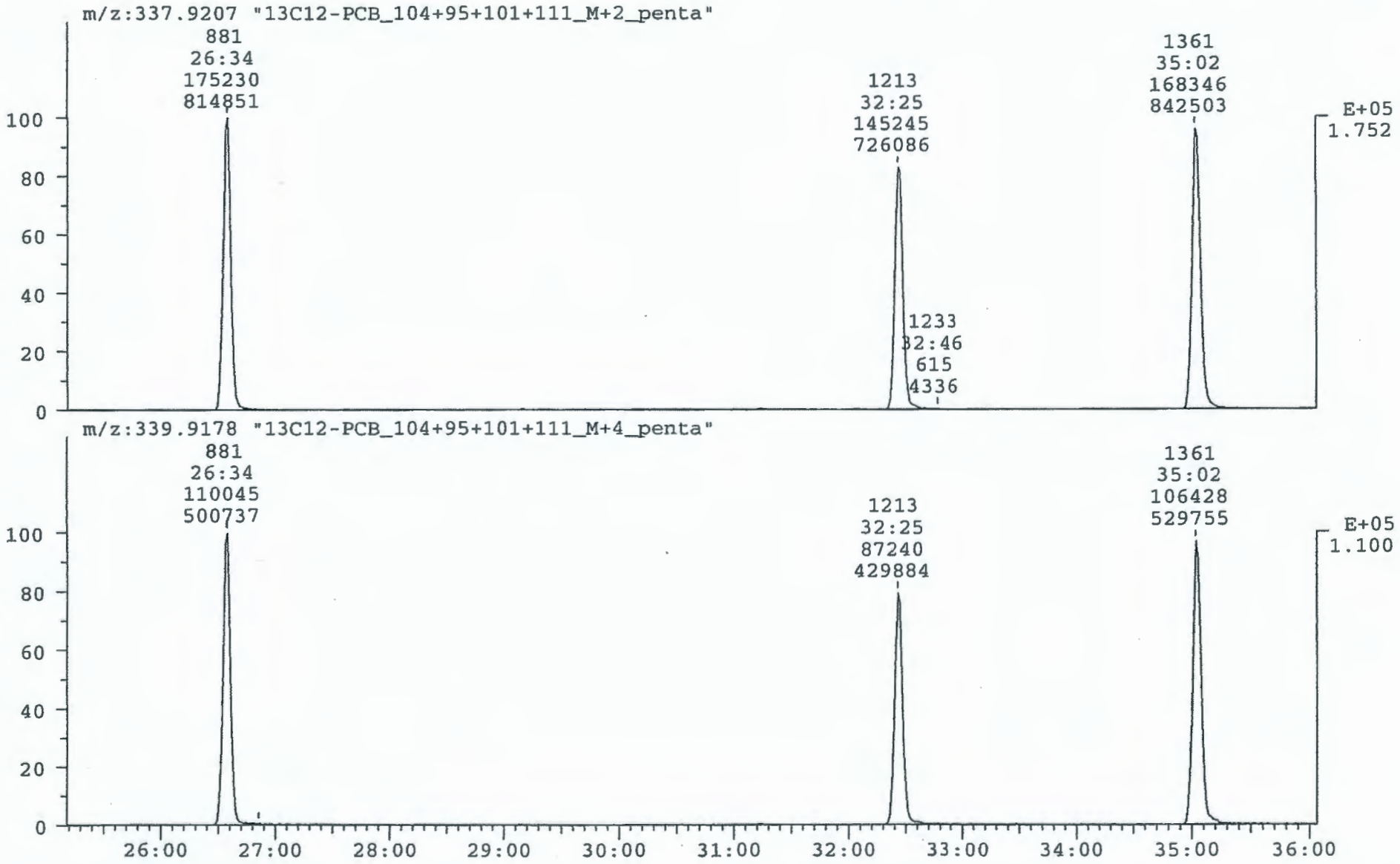


3055

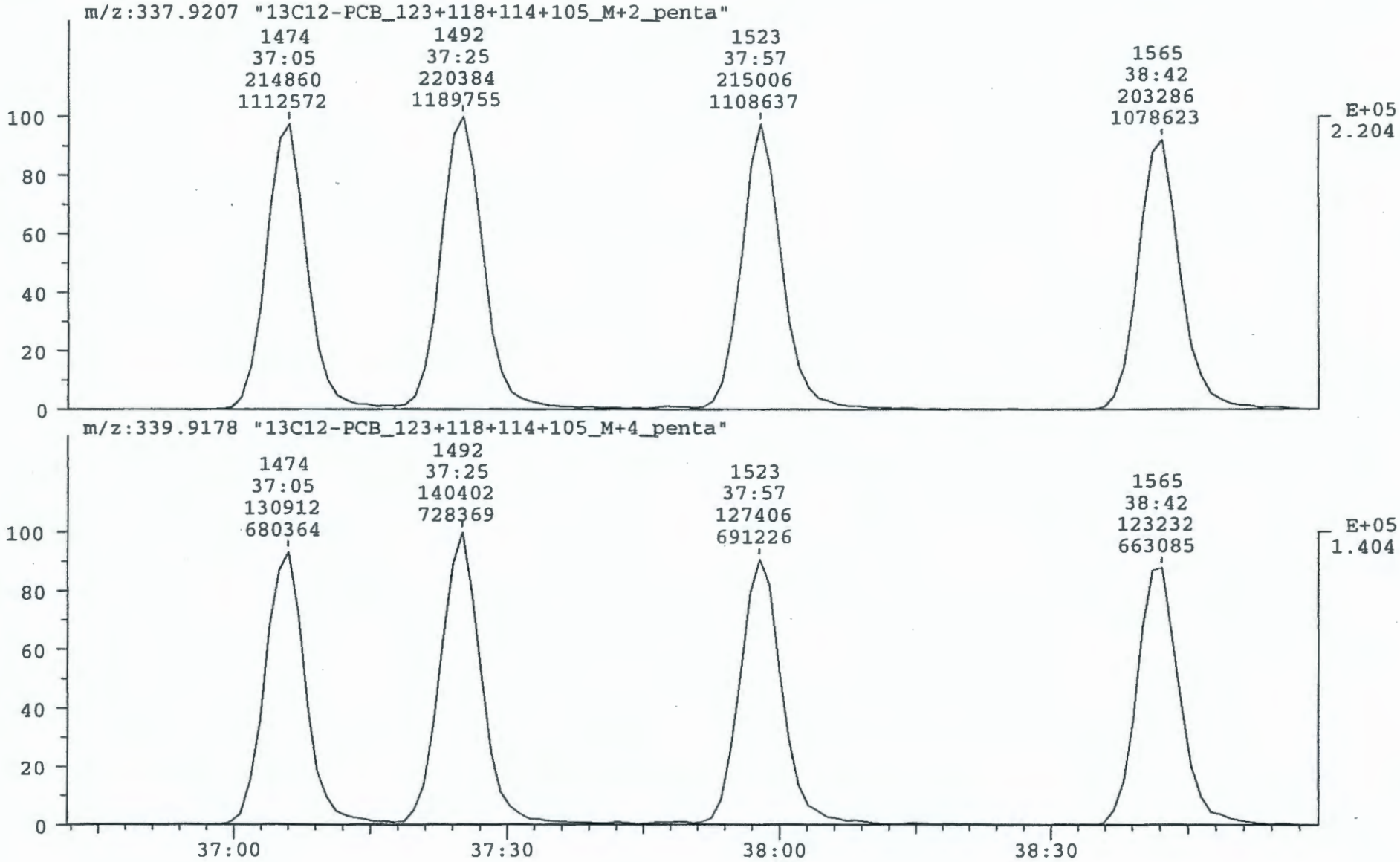
CHRO: apj8alac 12-Oct-07 Elapse: 34:08 1310
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 818 > 1798 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



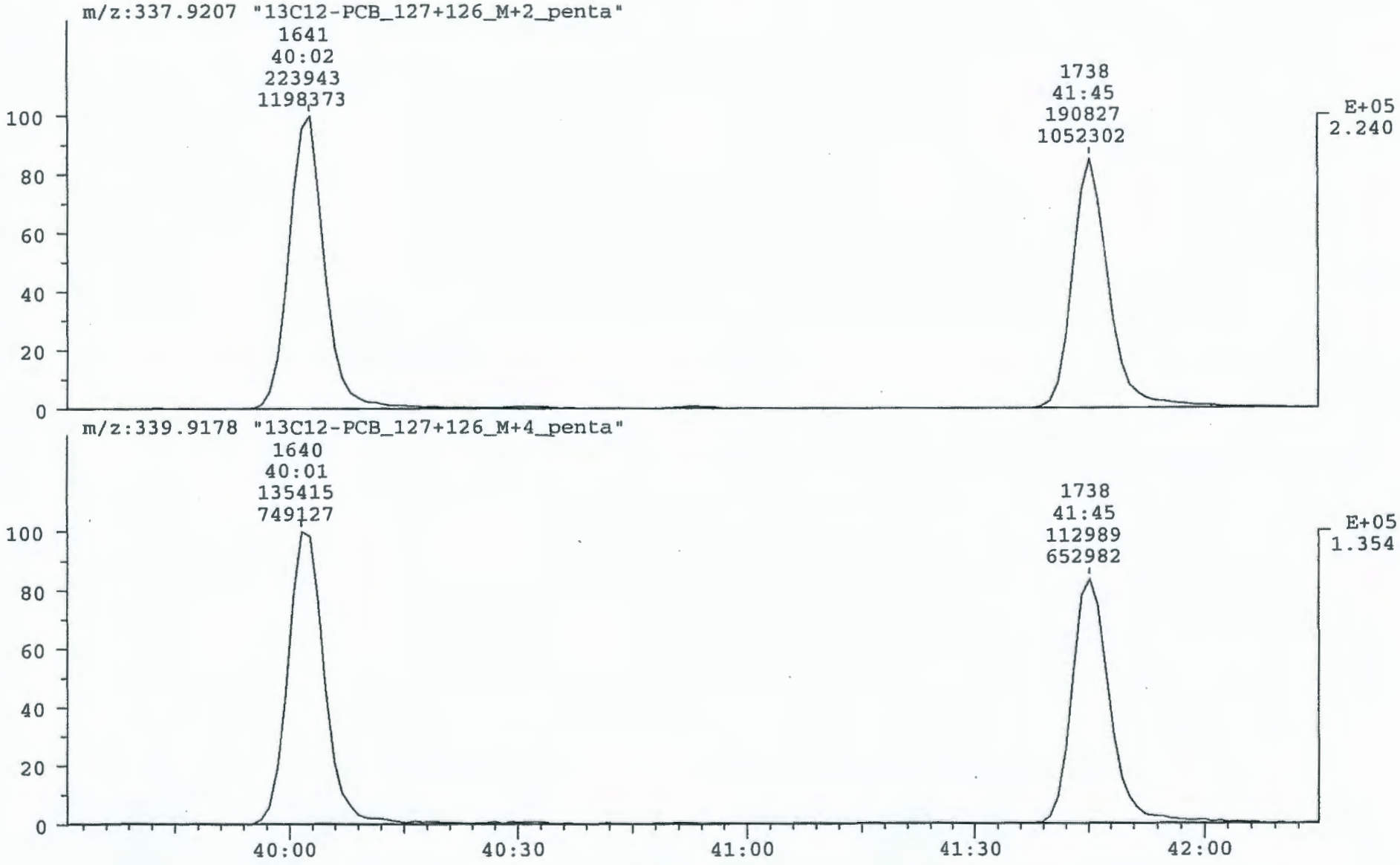
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  30:36      1110
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   802 > 1420           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



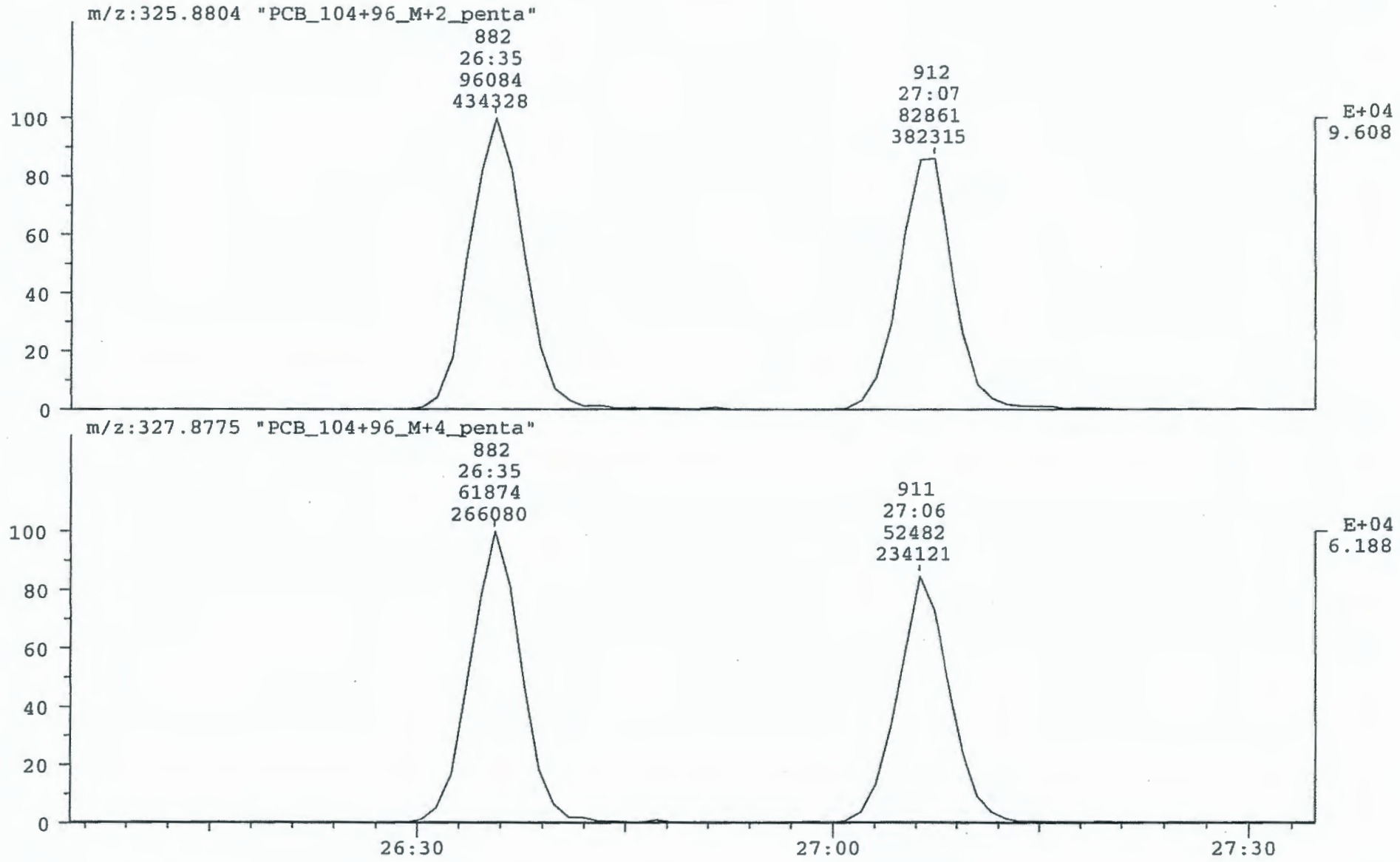
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  37:50      1516
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1451 > 1581          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alac                                12-Oct-07   Elapse:  40:50      1686
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial 11
Peak:  100.00  ppm      Label wndw:   1611 > 1766          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

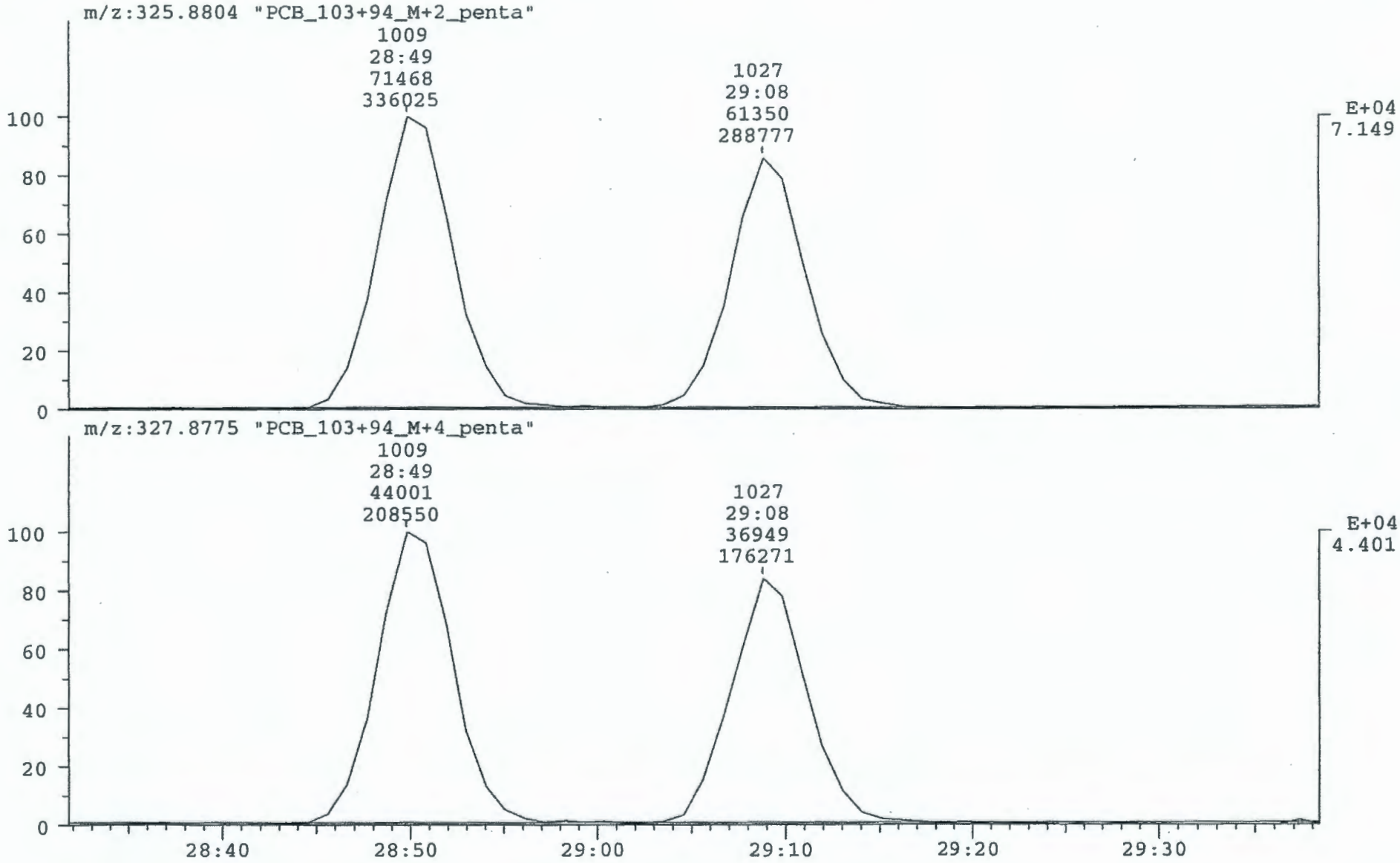


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  26:47.2      893
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30    2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC      Vial  11
Peak:  100.00  ppm      Label wndw:   853 > 938            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

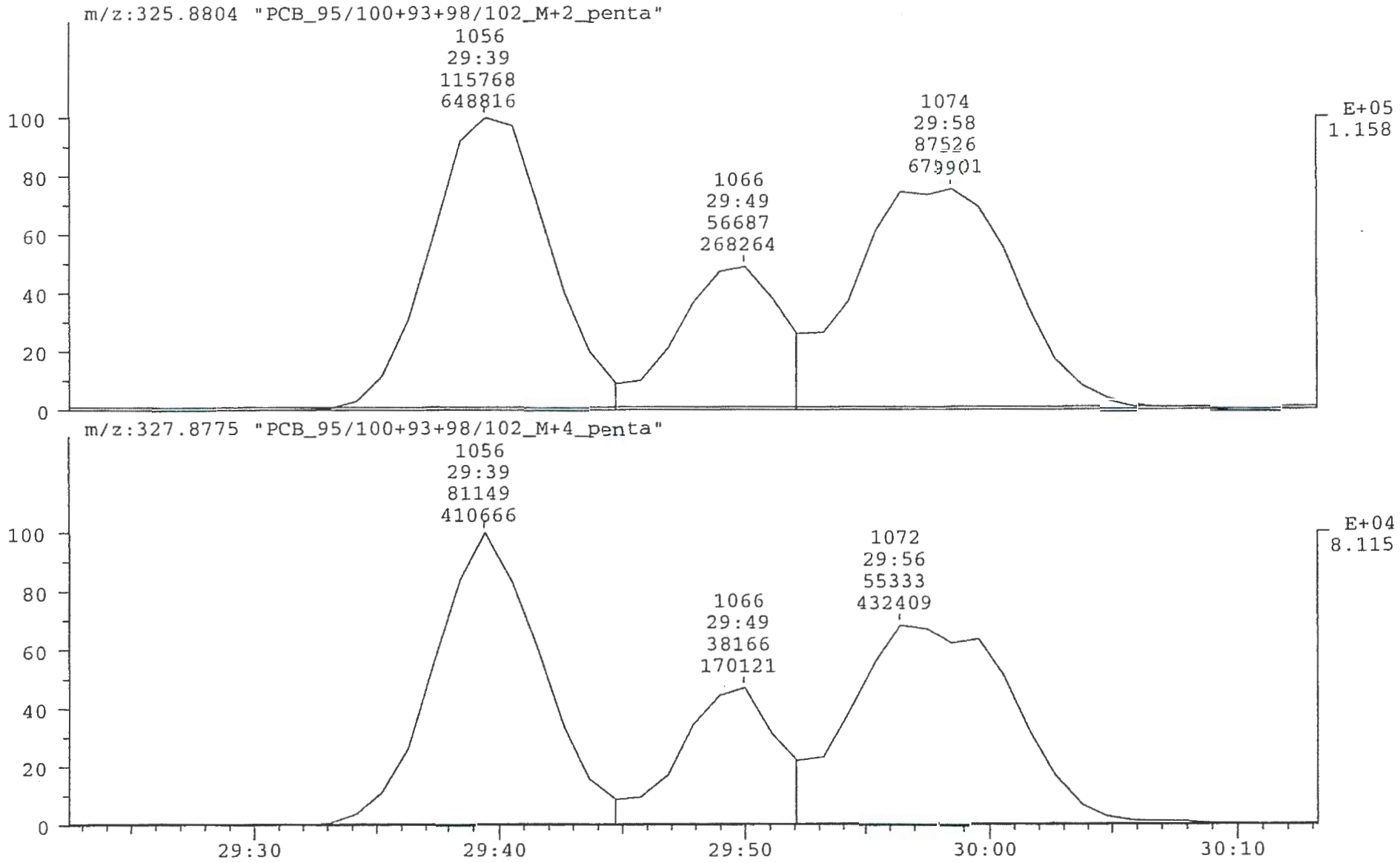


3060

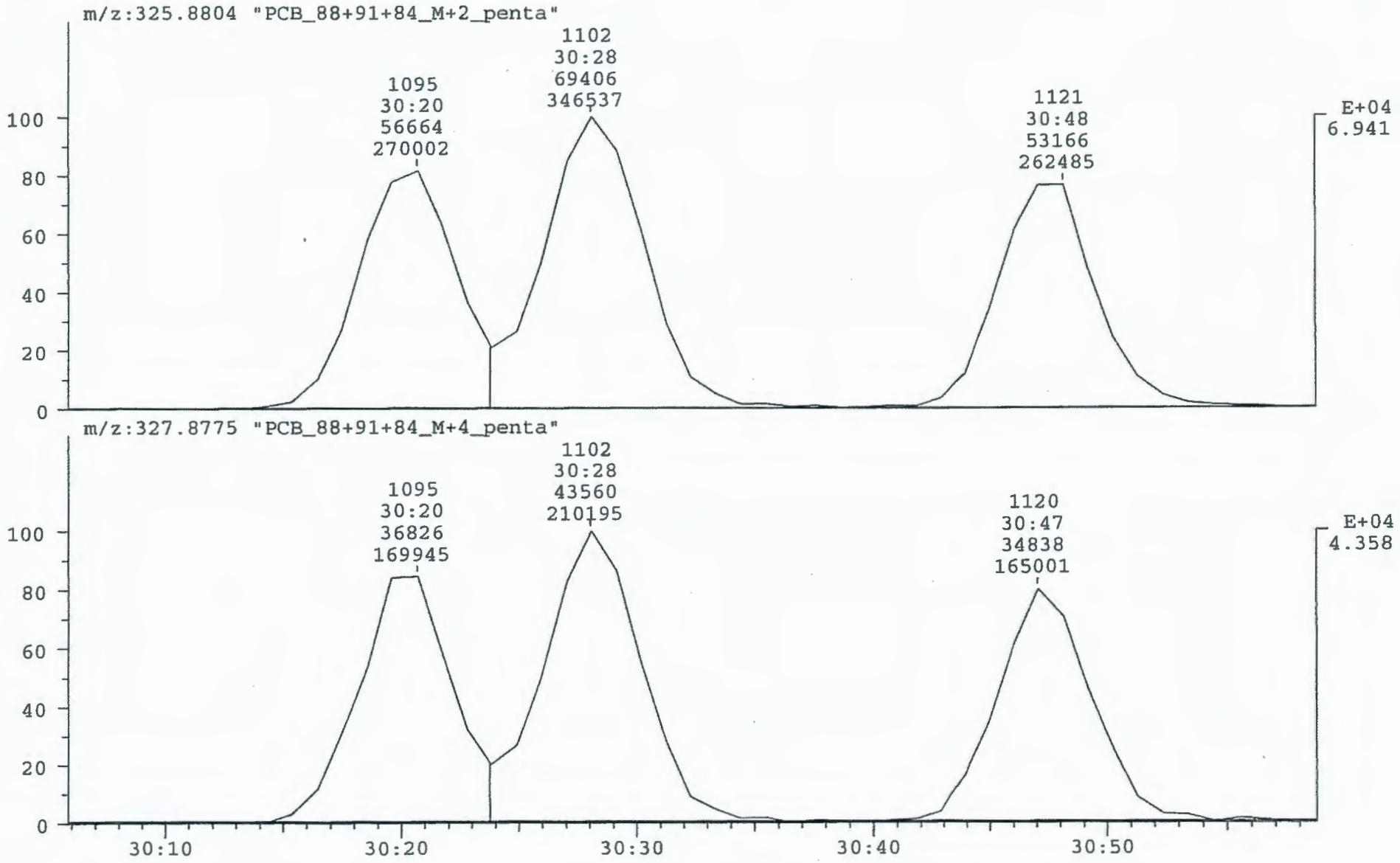
CHRO: apj8alac 12-Oct-07 Elapse: 28:58 1017
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 992 > 1055 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



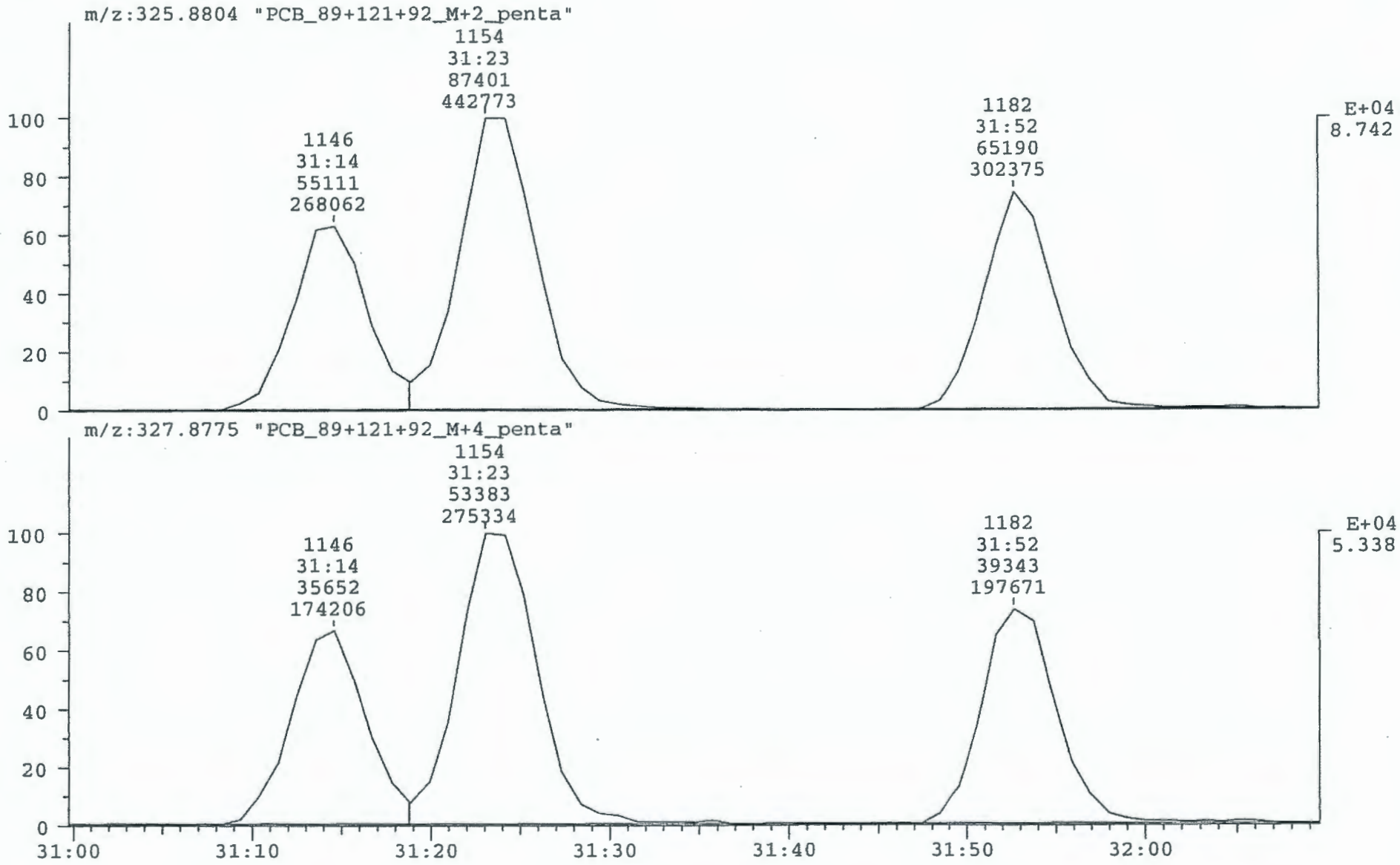
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  29:43      1060
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1040 > 1088          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 4               Label :  -3, 3.0
Disp:  Height  Area
```



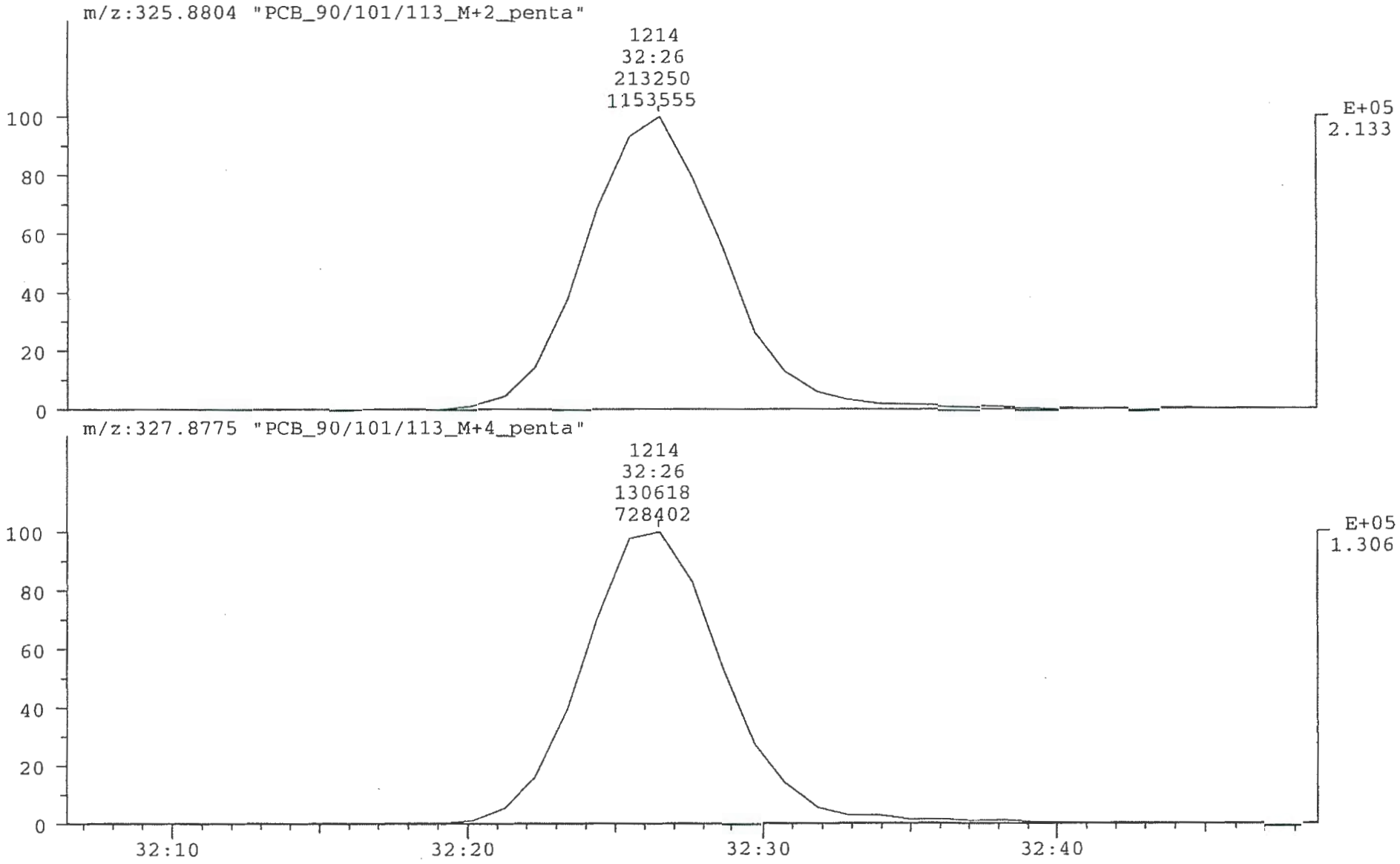
CHRO: apj8alac 12-Oct-07 Elapse: 30:30 1104
Samp: Vial 11 WO=j8alalac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1081 > 1131 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 2 Label : -3, 3.0
Disp: Height Area



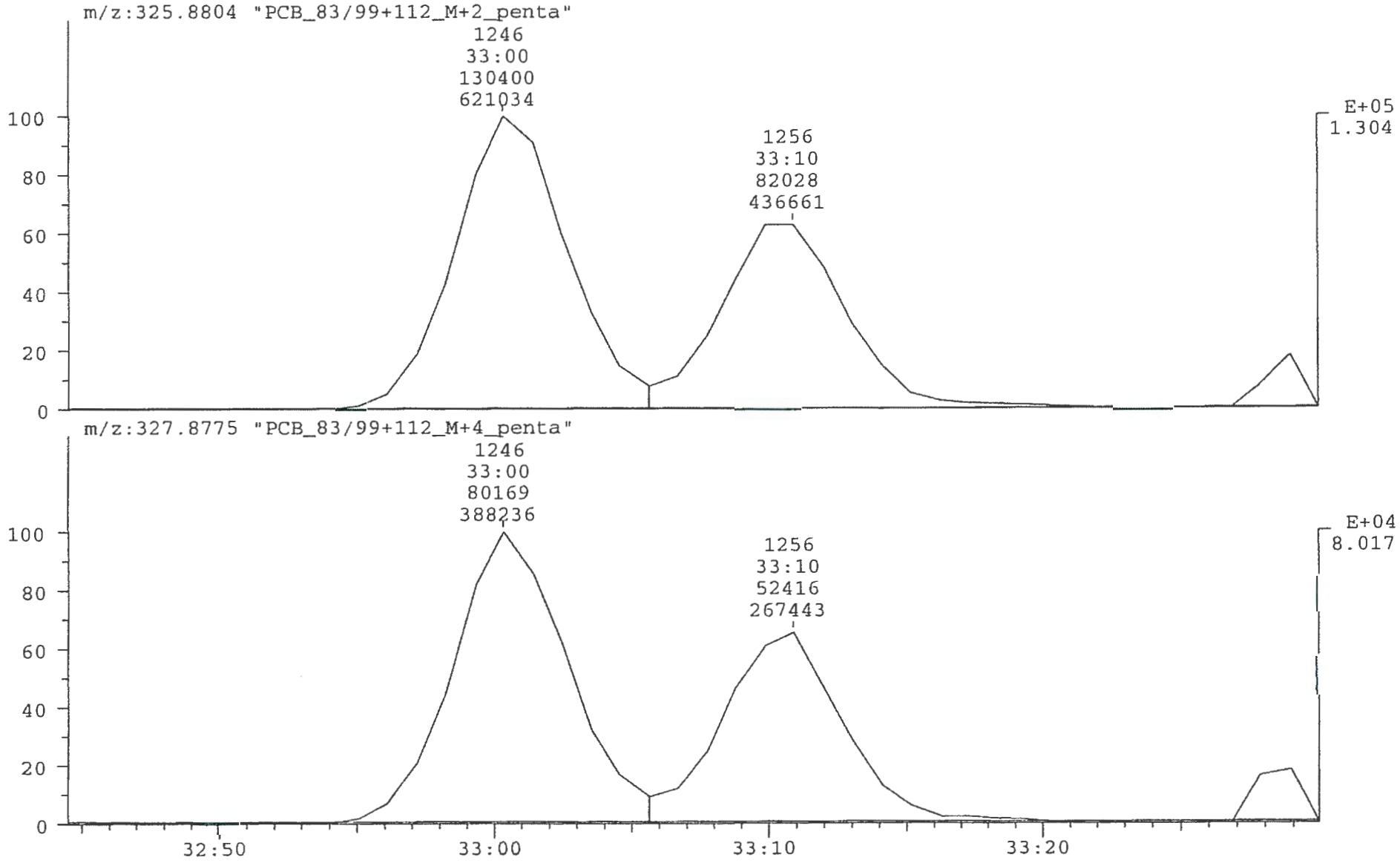
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  31:31      1162
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1132 > 1198          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alac                                12-Oct-07   Elapse:  32:22      1210
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial 11
Peak:  100.00  ppm      Label wndw:   1195 > 1235          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

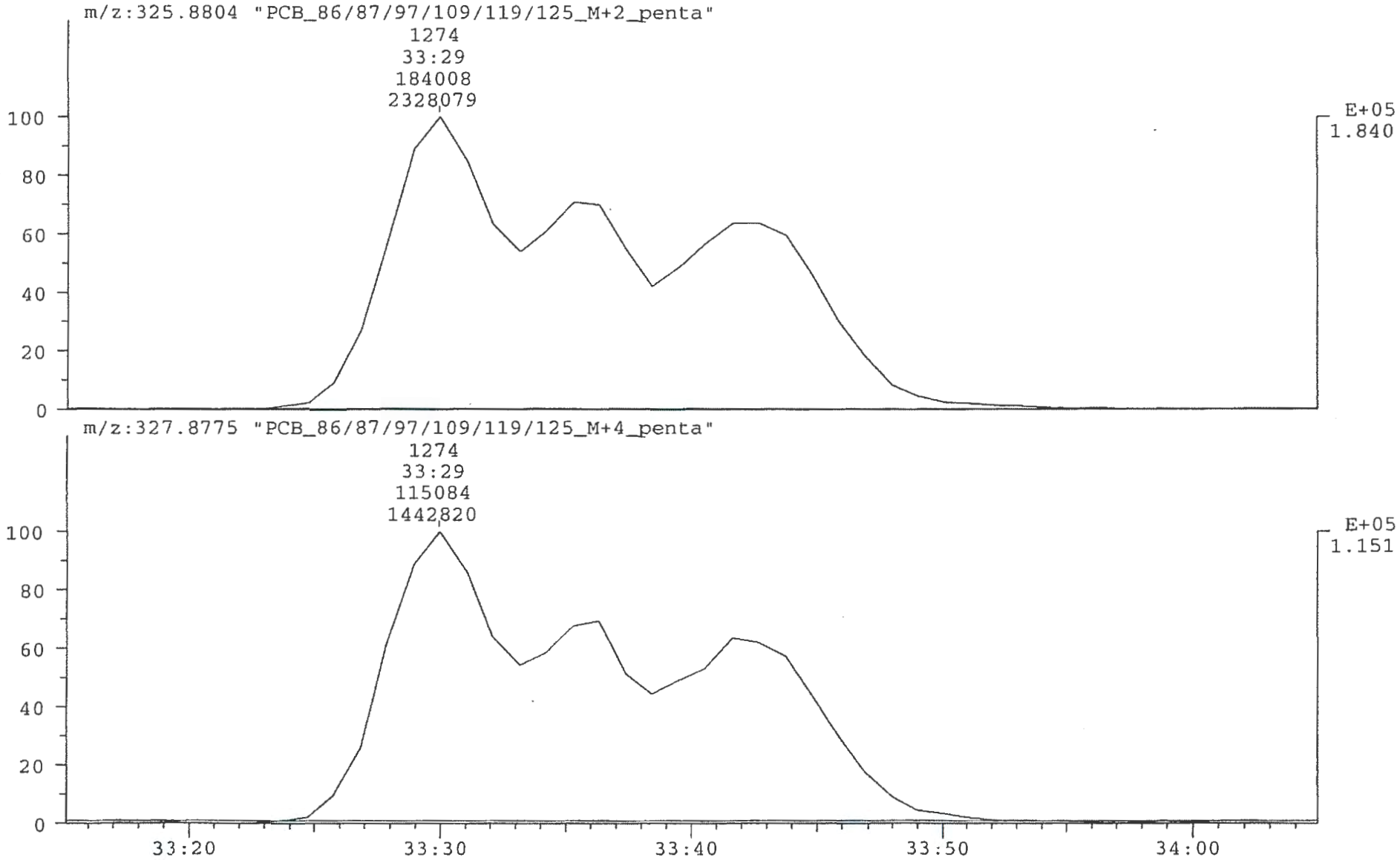


CHRO: apj8alac 12-Oct-07 Elapse: 33:03 1249
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1231 > 1274 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

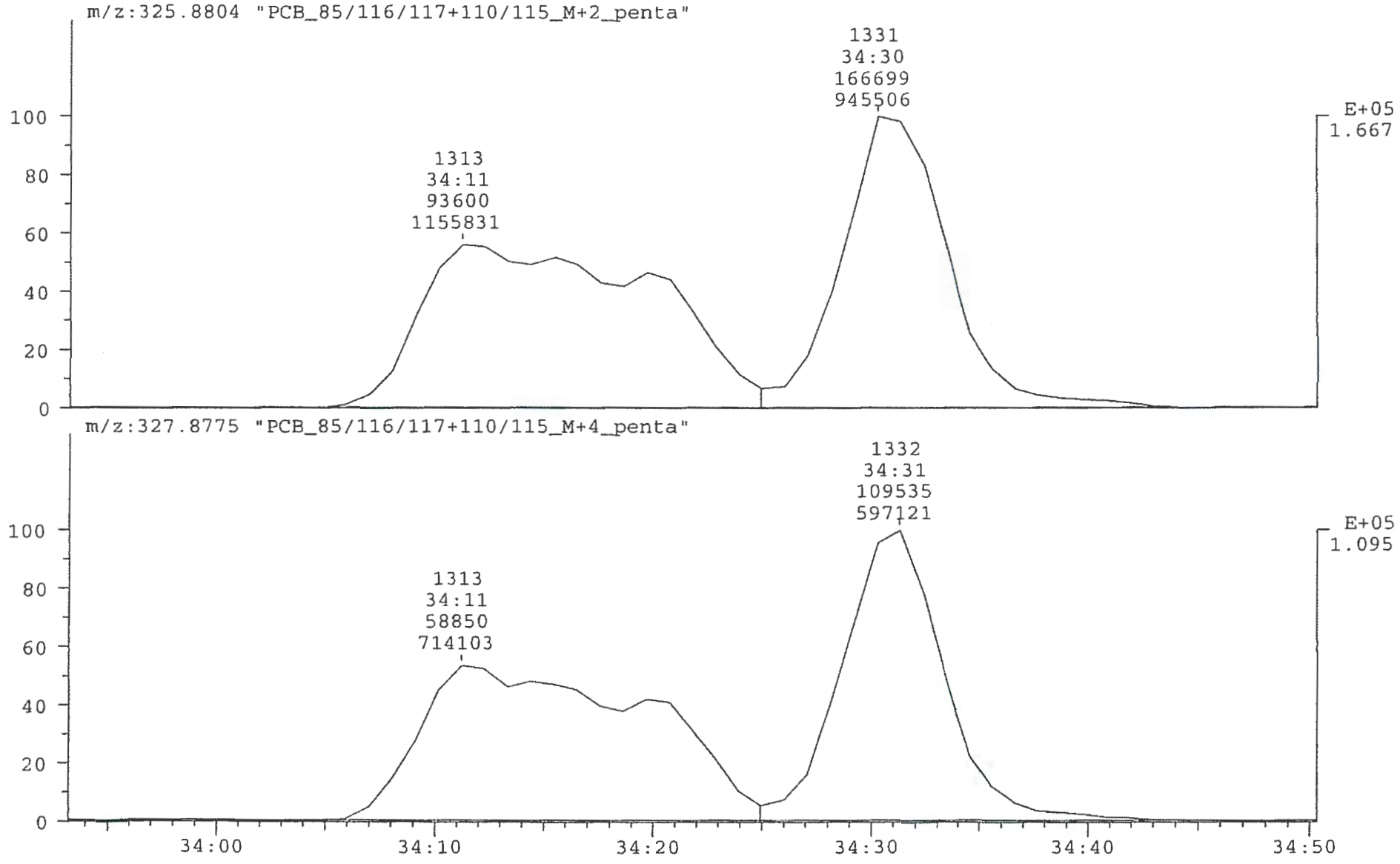


3066

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  33:36      1280
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1260 > 1307          Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 12              Label :  -3, 3.0
Disp:  Height  Area
```

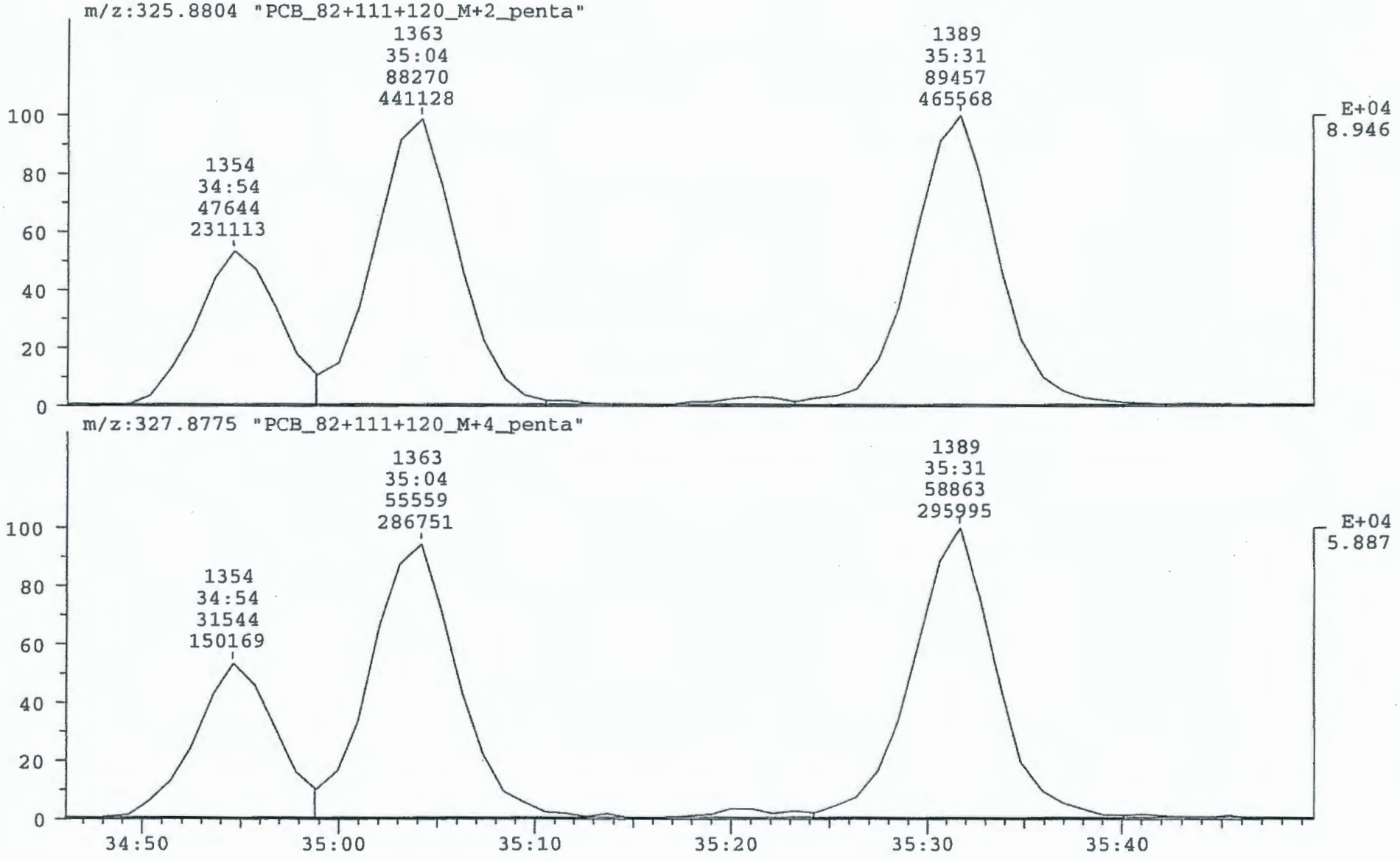


CHRO: apj8alac 12-Oct-07 Elapse: 34:22 1324
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1296 > 1350 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 6 Label : -3, 3.0
Disp: Height Area

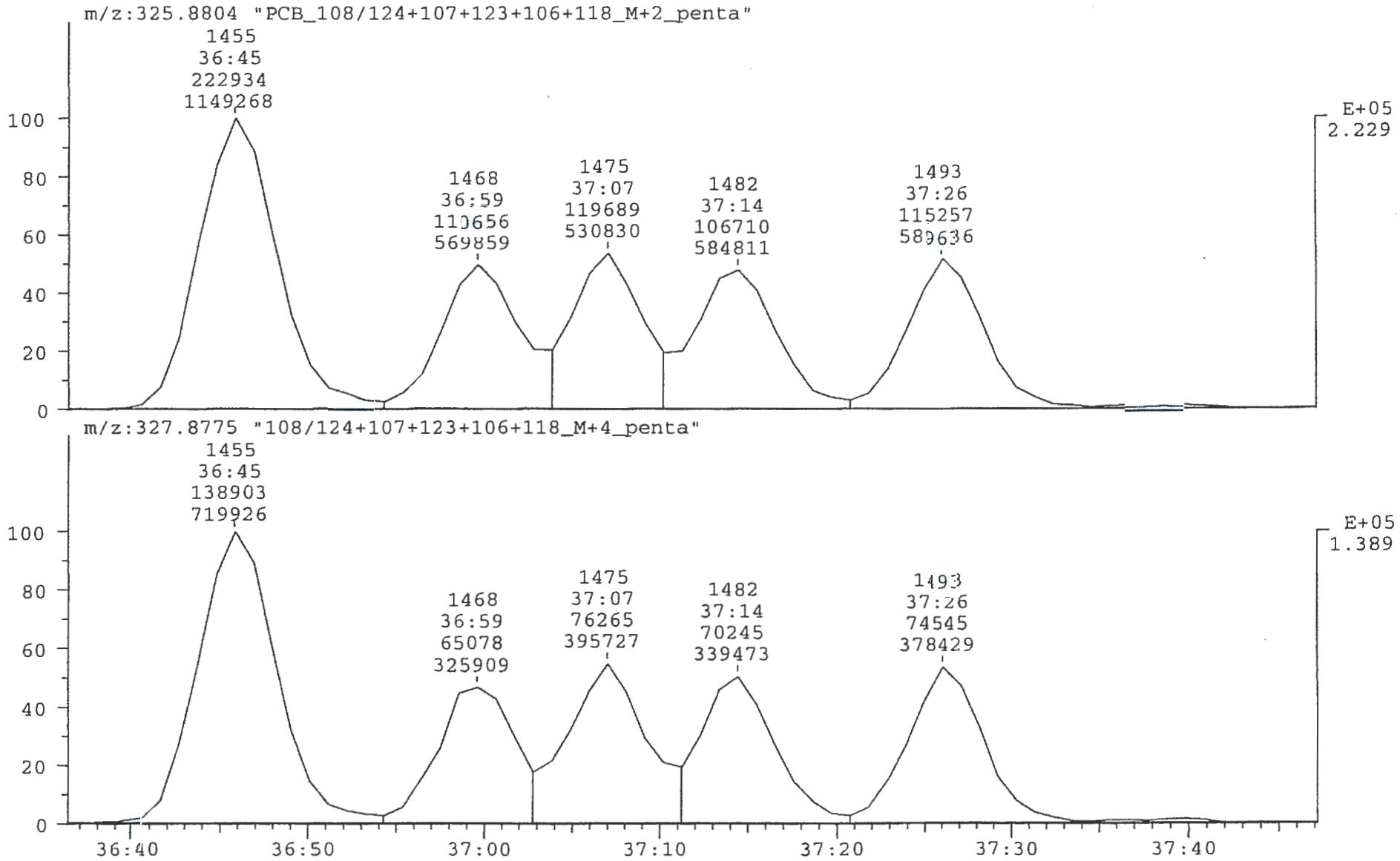


3068

CHRO: apj8alac 12-Oct-07 Elapse: 34:56 1356
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1346 > 1406 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

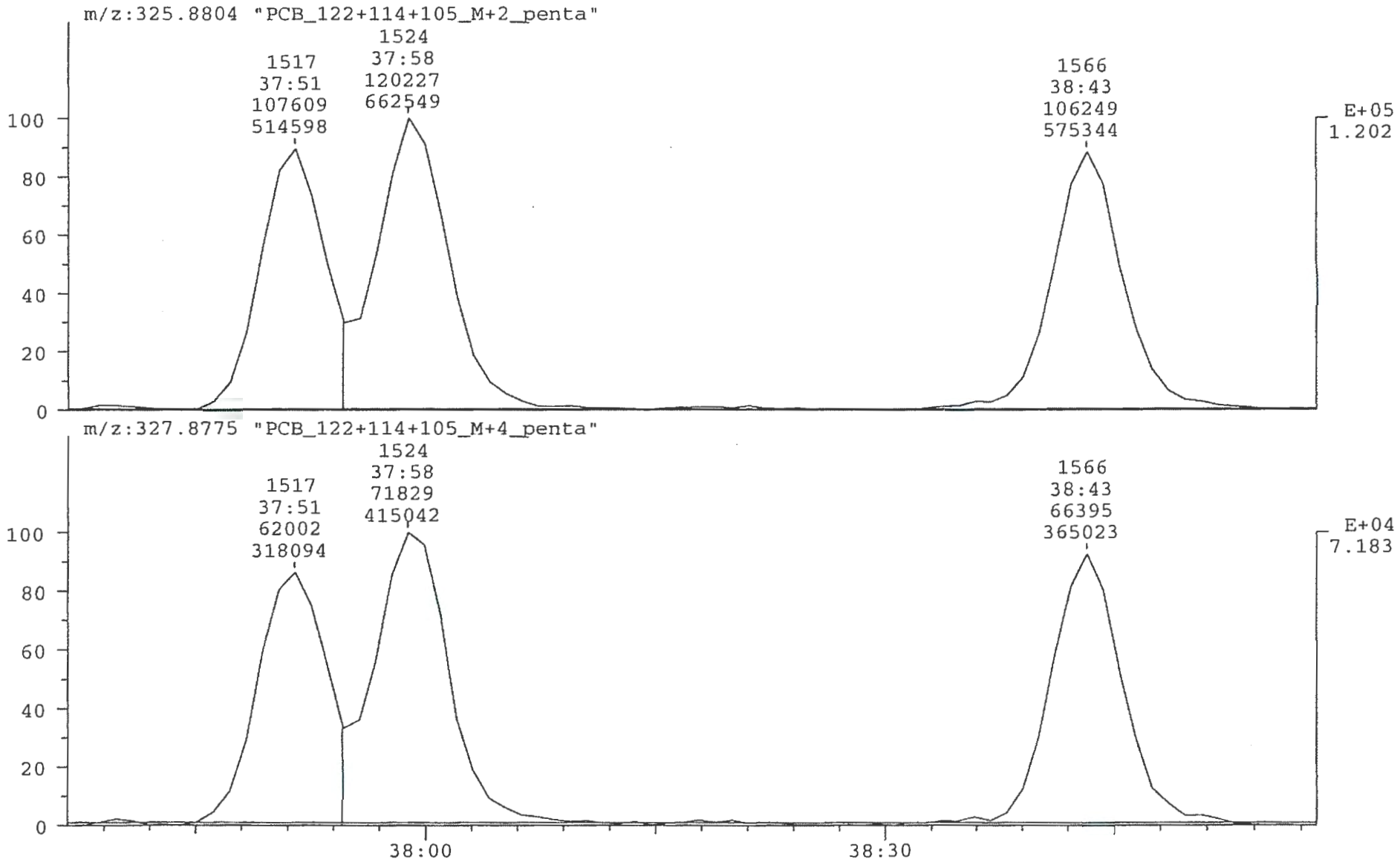


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  37:13      1481
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1446 > 1513          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



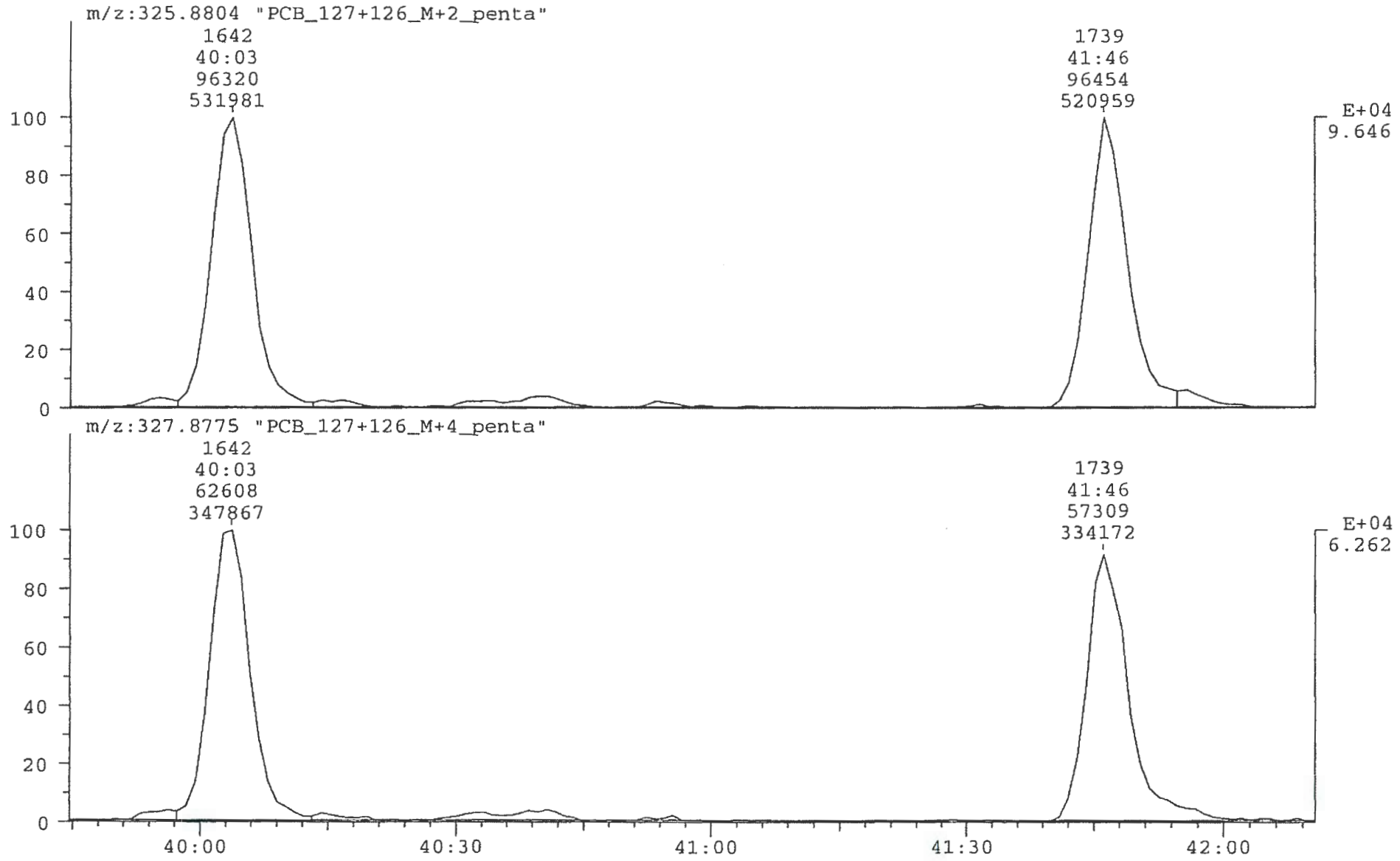
3070

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  38:13      1538
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1503 > 1580          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



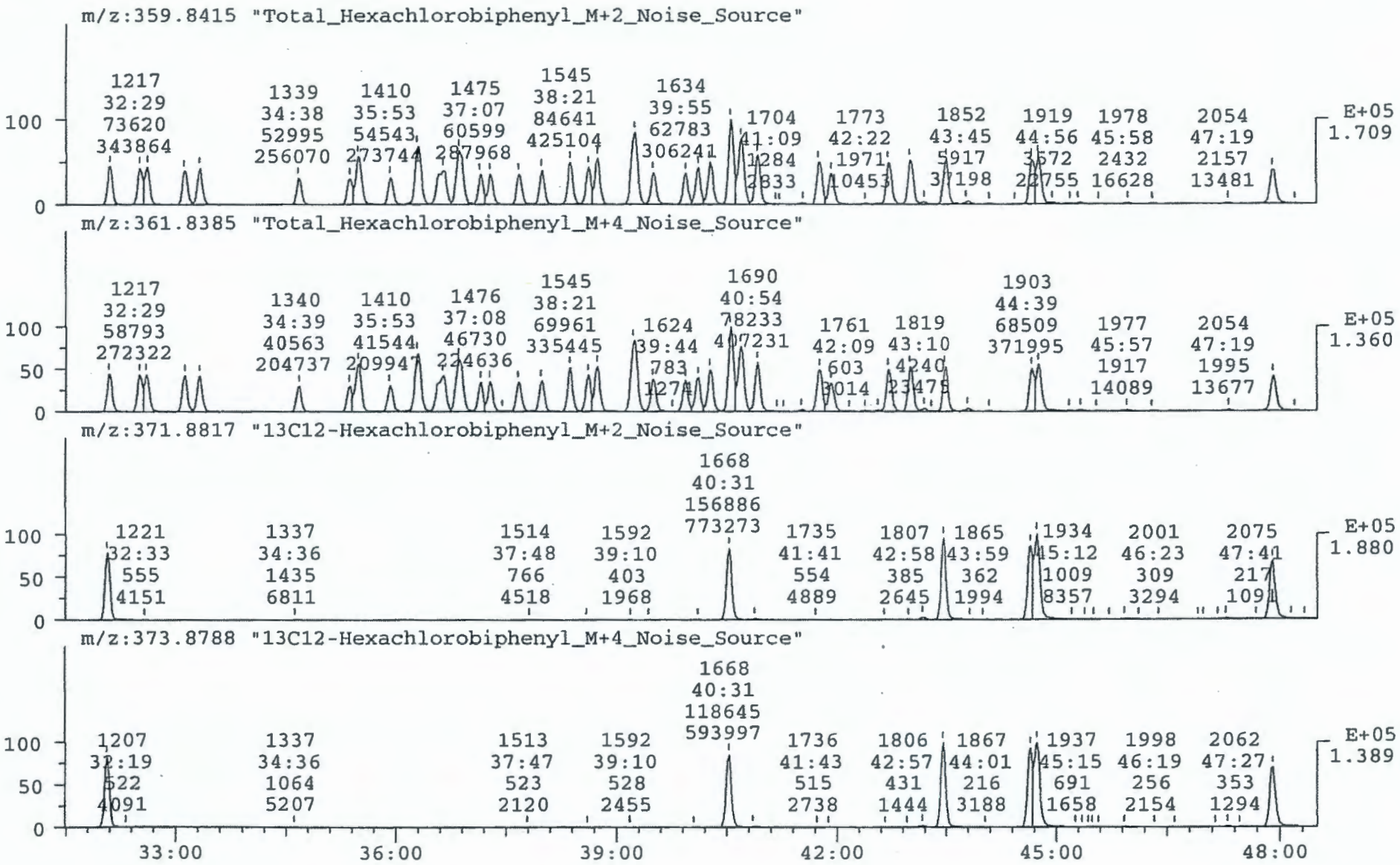
3071

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  40:53      1689
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1624 > 1762          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```

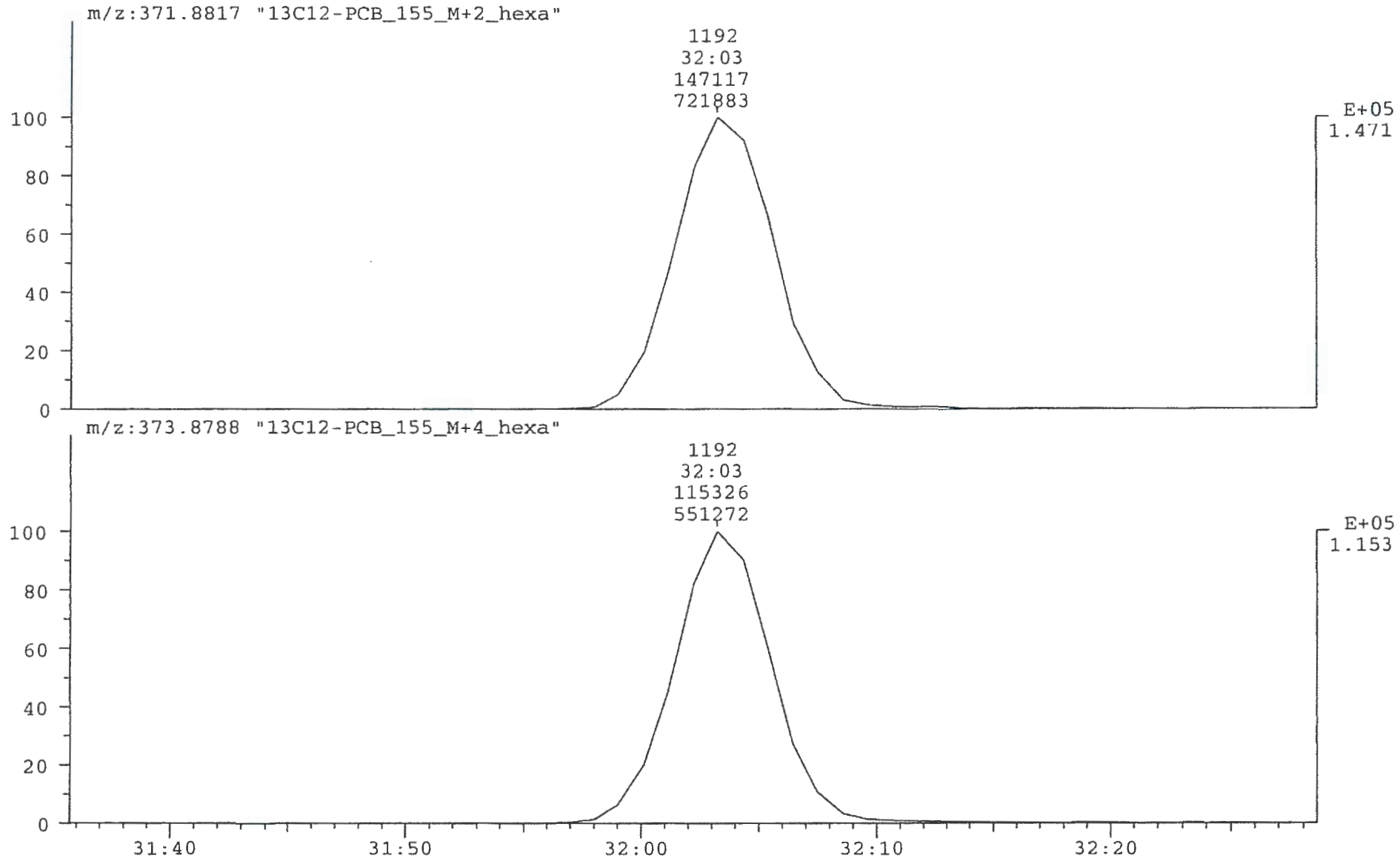


3072

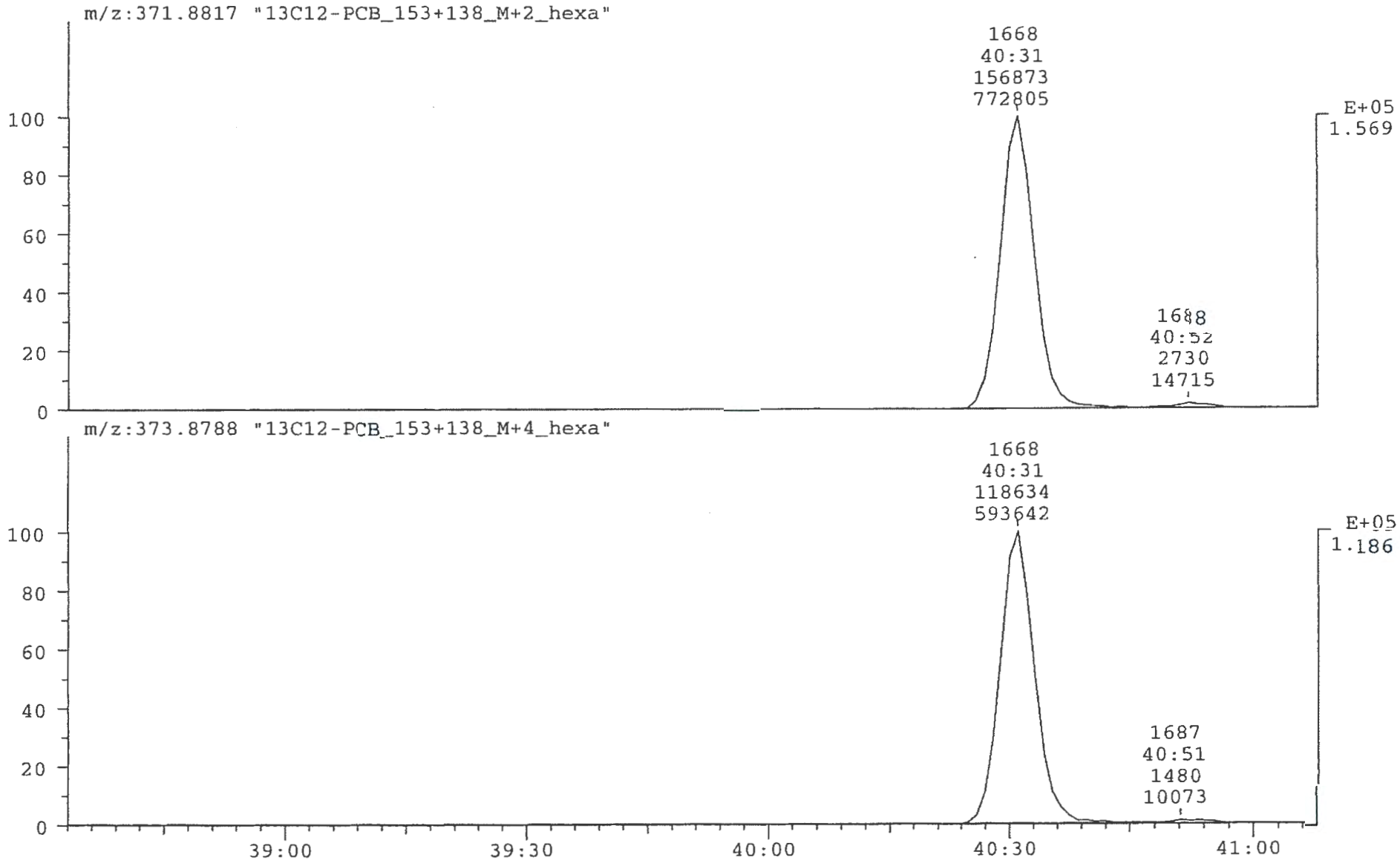
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  39:59      1638
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1160 > 2121          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



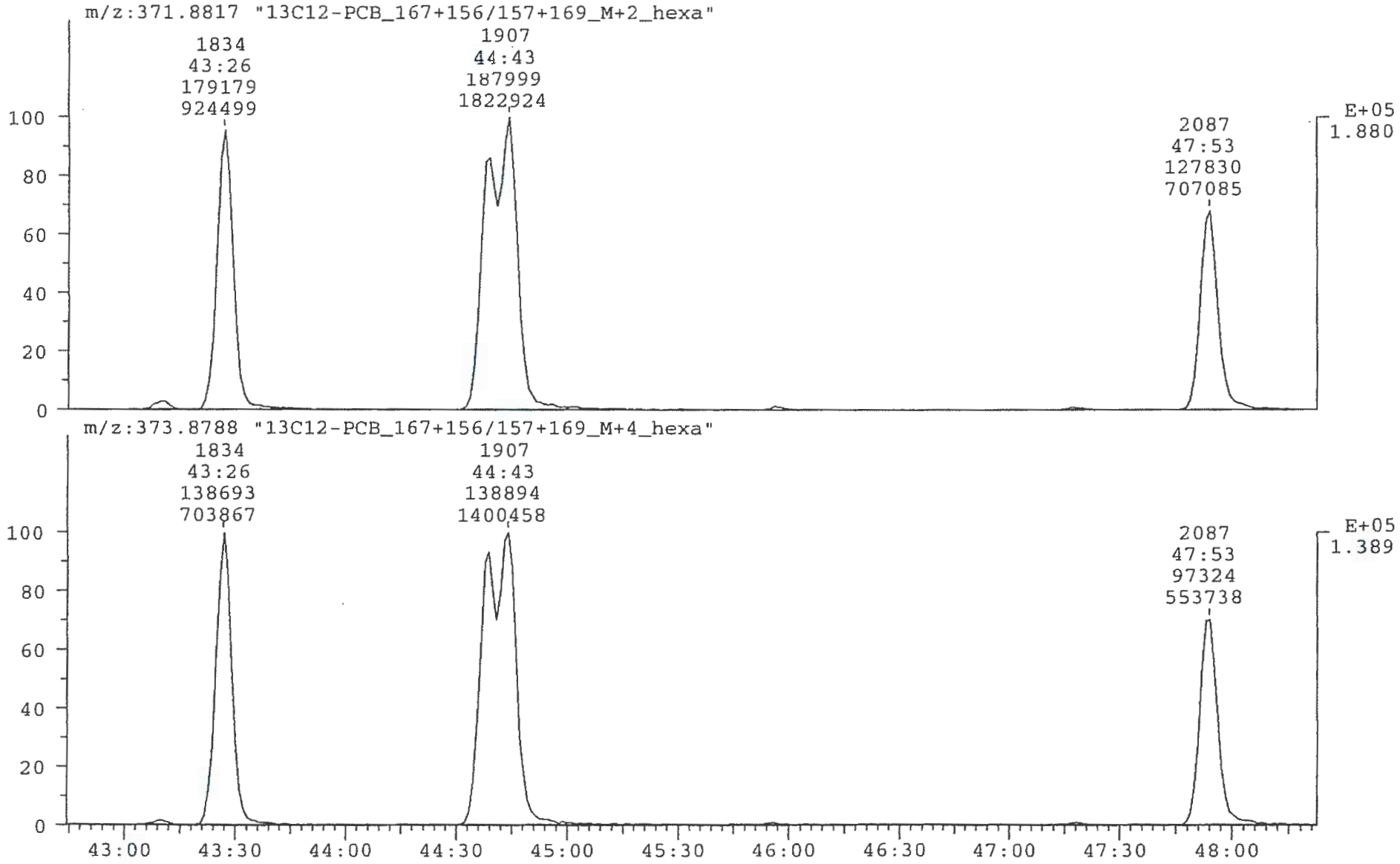
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  32:02      1191
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1166 > 1216          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



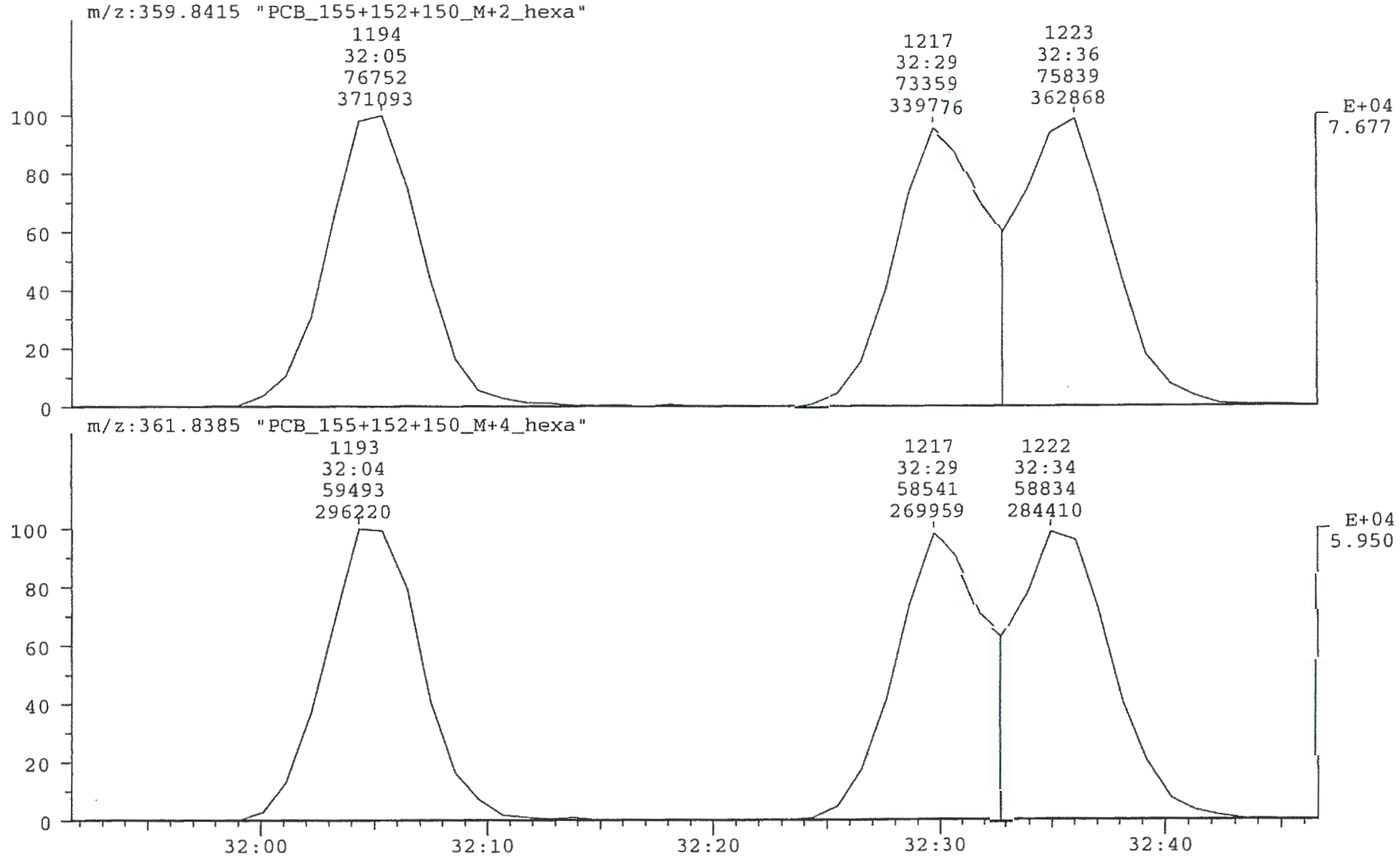
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  39:49      1629
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1556 > 1703          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alac                                12-Oct-07   Elapse:  45:38      1959
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1794 > 2114          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9               Label :  -3, 3.0
Disp:  Height  Area
```

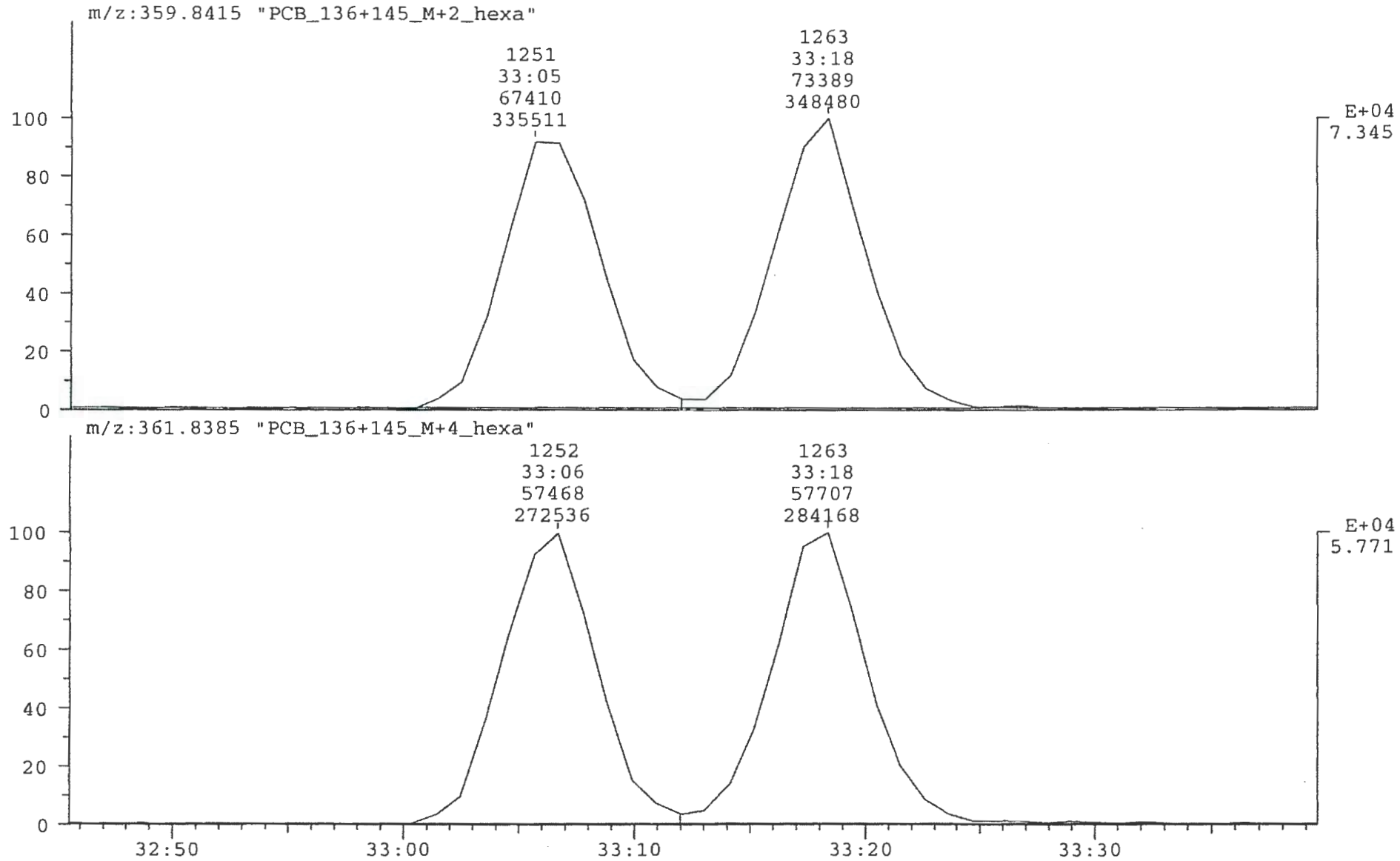


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  32:20      1208
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1181 > 1233          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

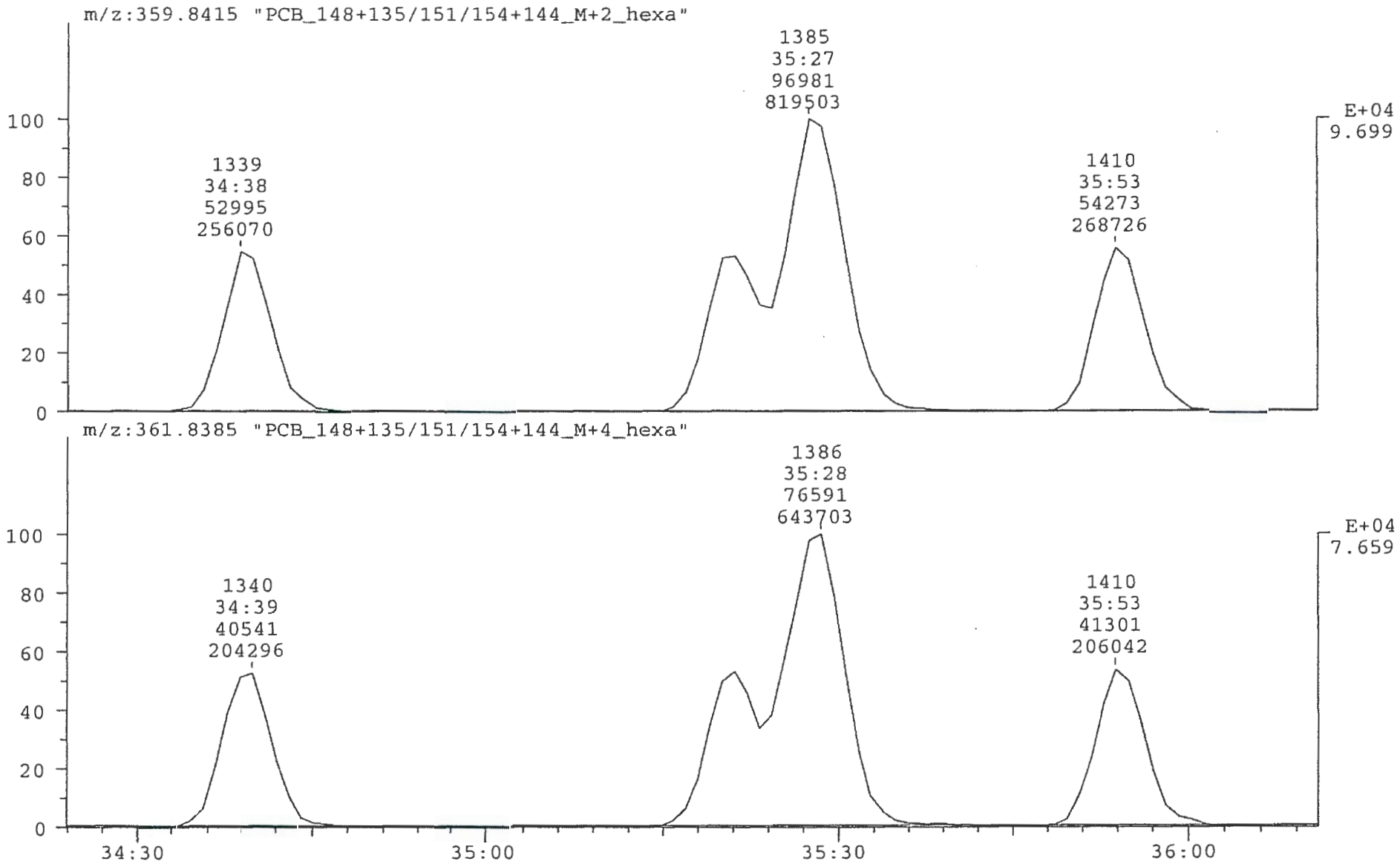


3077

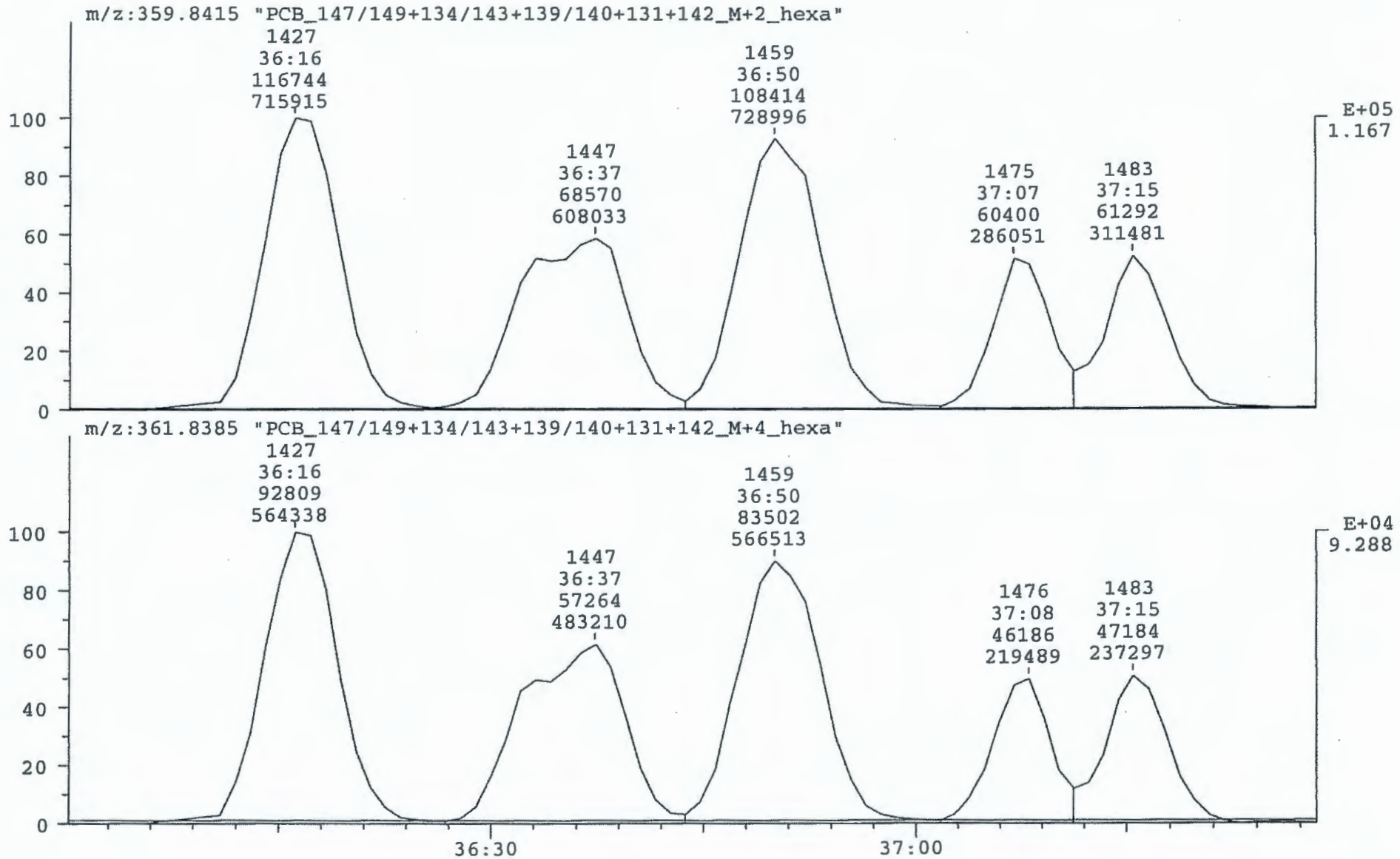
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  33:08      1254
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1232 > 1283          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alac                                12-Oct-07   Elapse:  35:22      1380
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial 11
Peak:  100.00  ppm      Label wndw:   1325 > 1422          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 12              Label :  -3, 3.0
Disp:  Height  Area
```

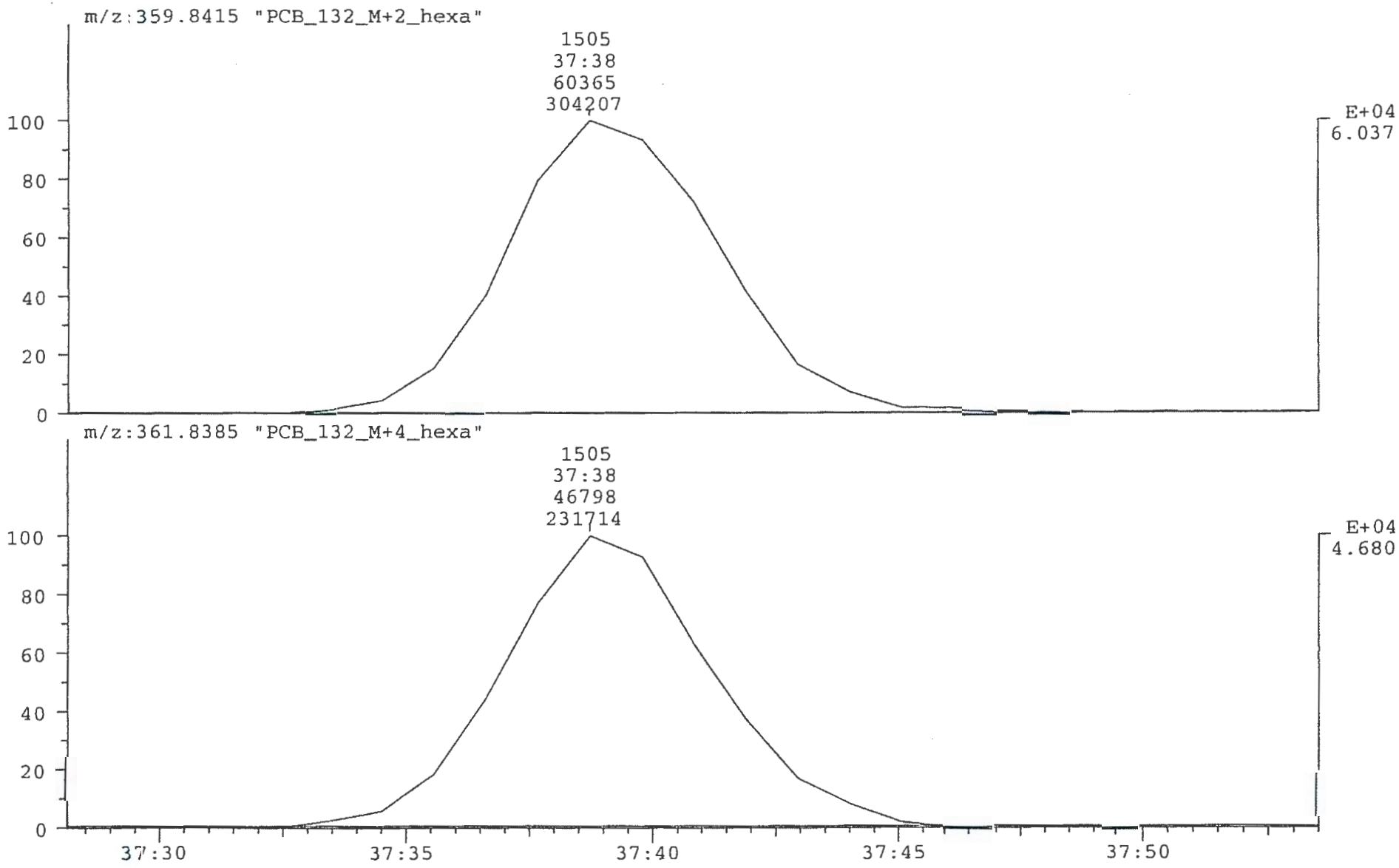


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  36:45      1455
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1416 > 1495          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5                Label :  -3, 3.0
Disp:  Height  Area
```

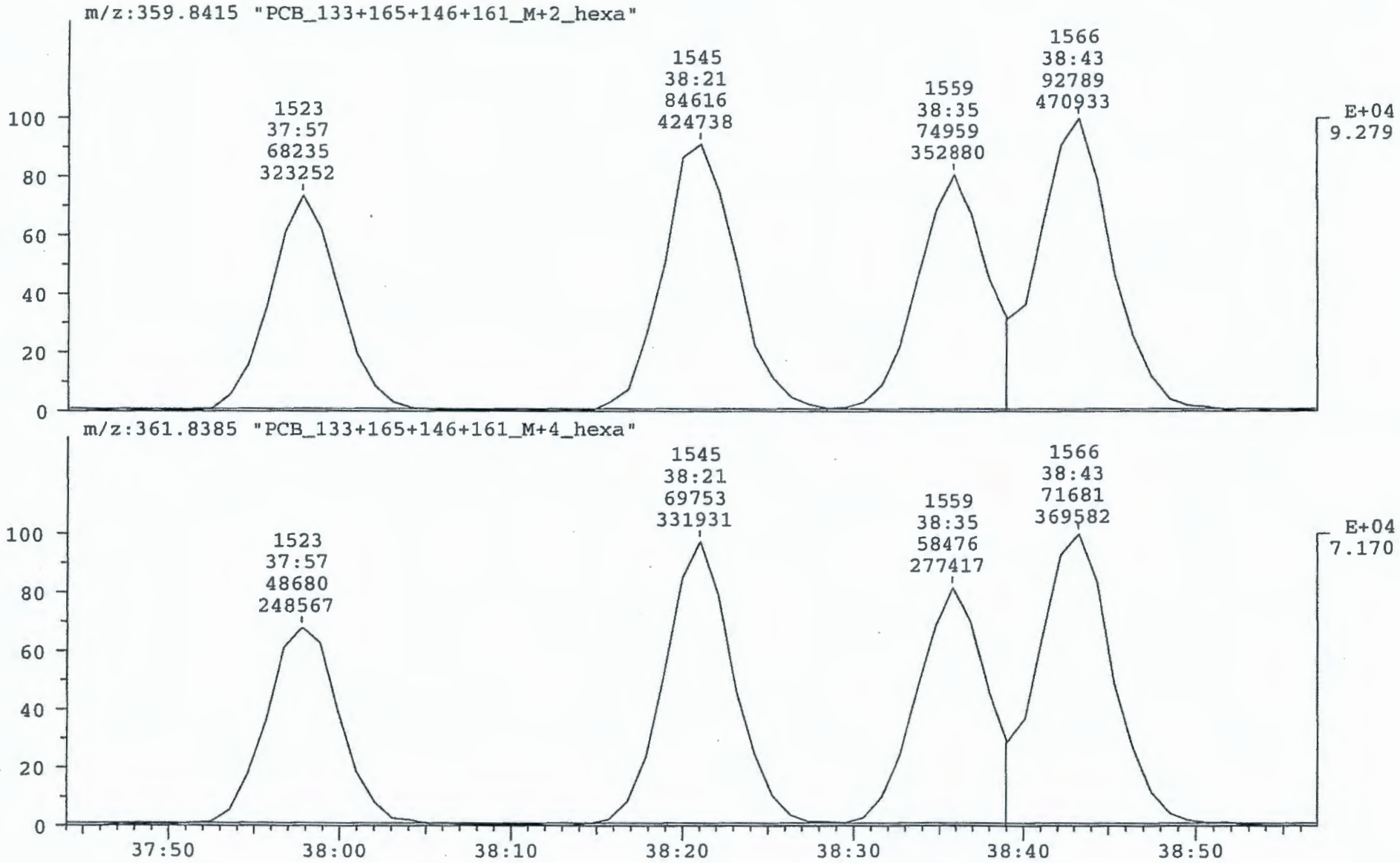


3080

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  37:34      1501
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial 11
Peak:  100.00  ppm      Label wndw:   1495 > 1519          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 5               Label :  -3, 3.0
Disp:  Height  Area
```

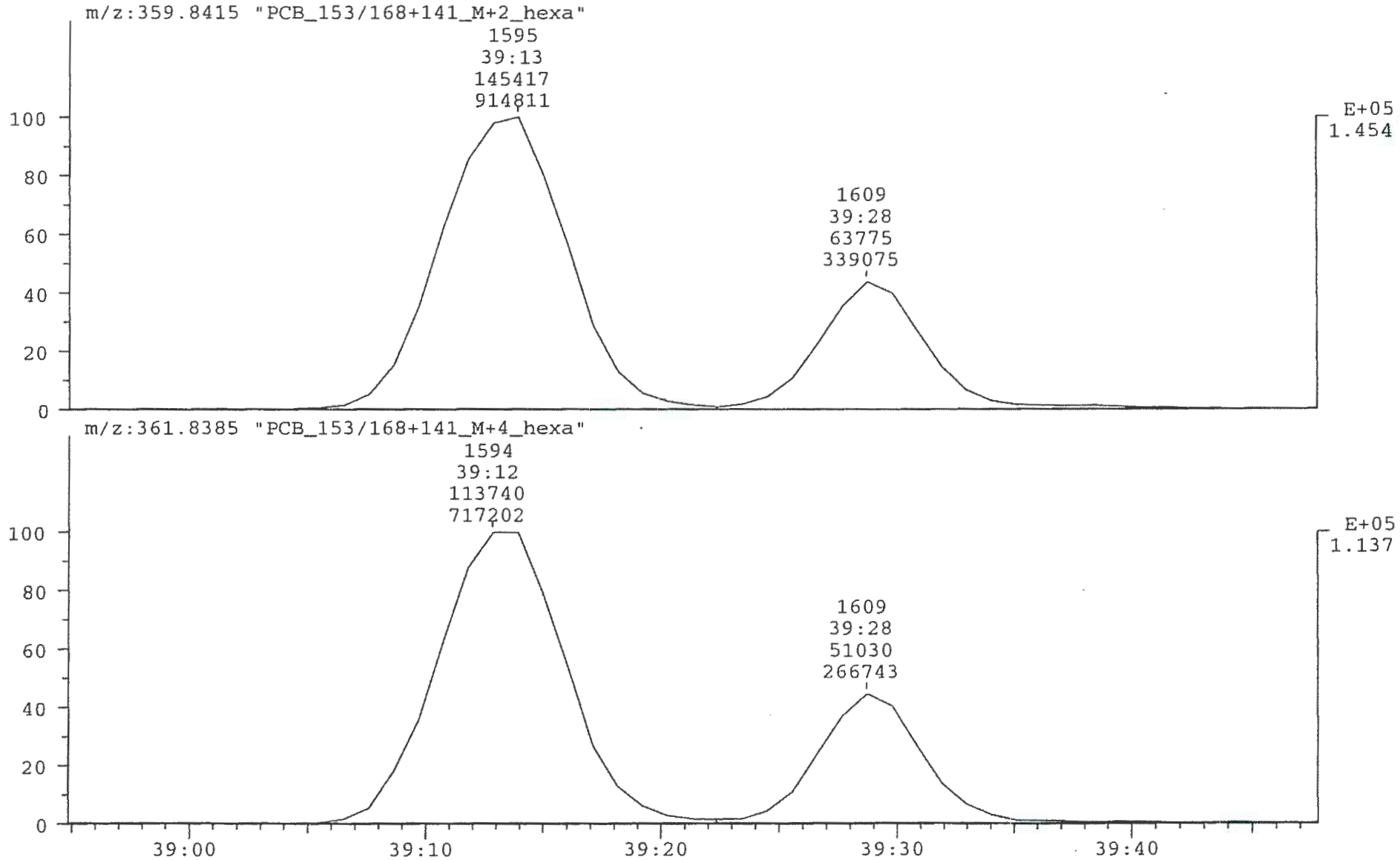


CHRO: apj8alac 12-Oct-07 Elapse: 38:22 1546
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1510 > 1579 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

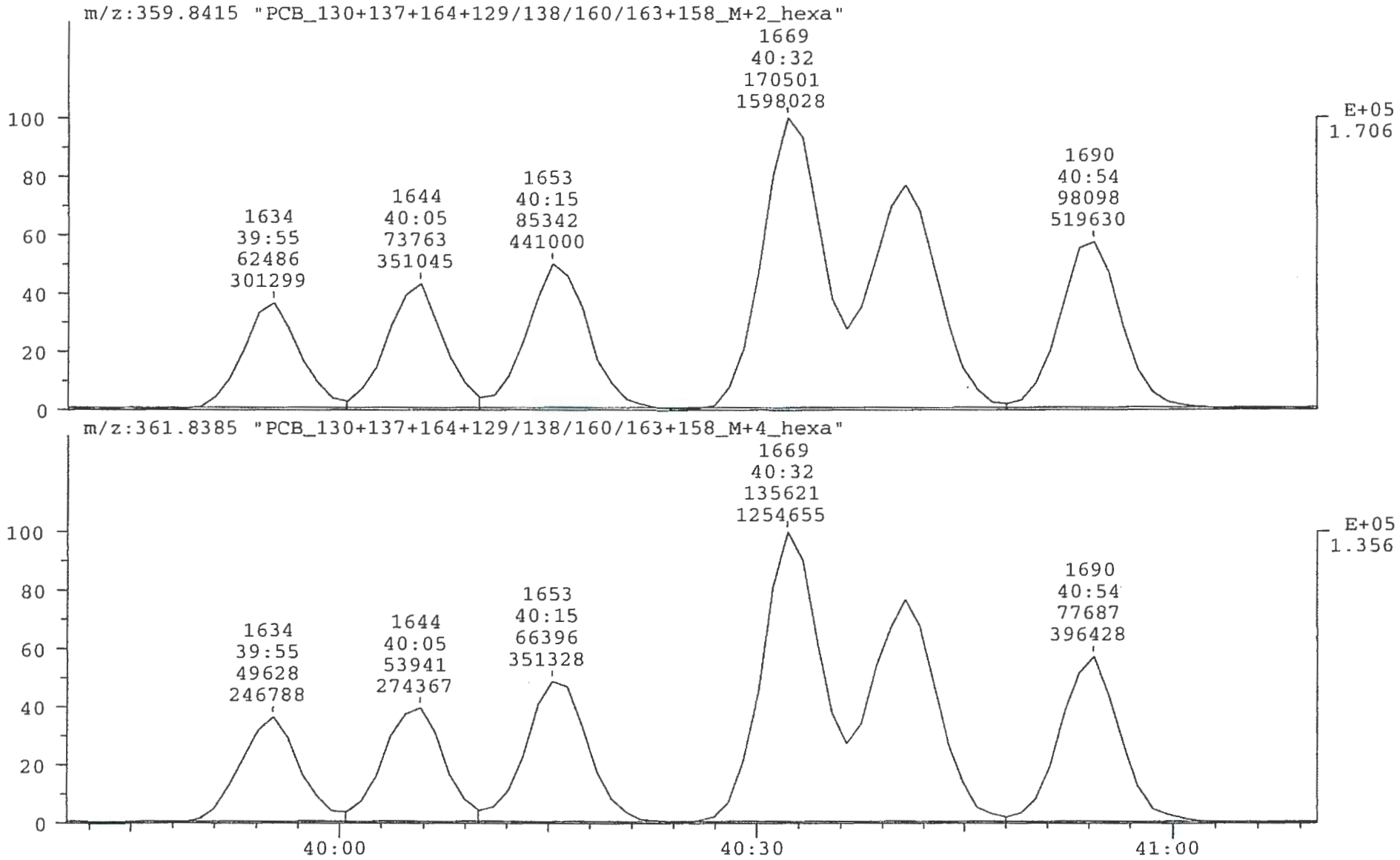


3082

CHRO: apj8alac 12-Oct-07 Elapse: 39:21 1602
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1577 > 1627 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

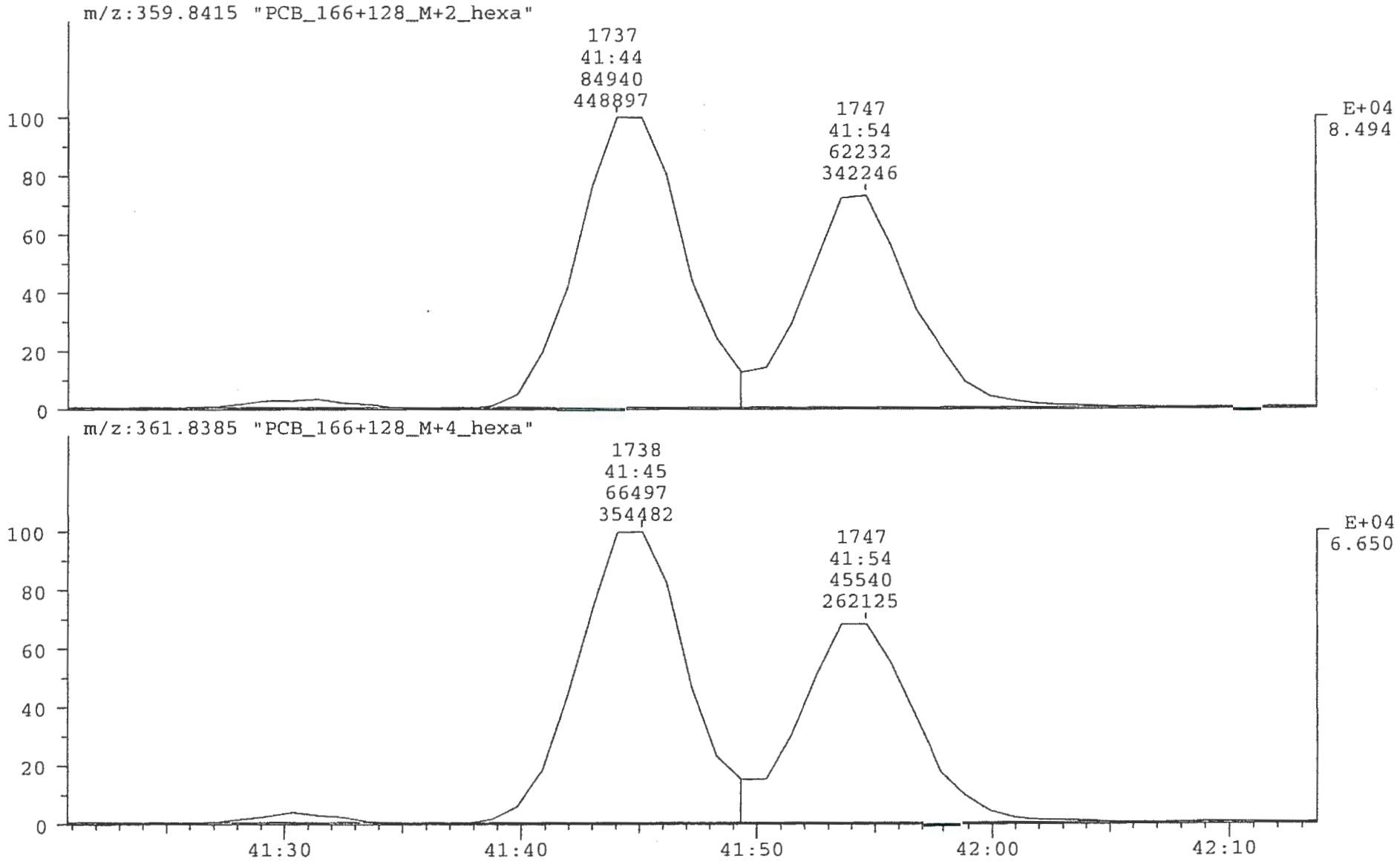


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  40:22      1660
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1620 > 1705          Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 7               Label :  -3, 3.0
Disp:  Height  Area
```

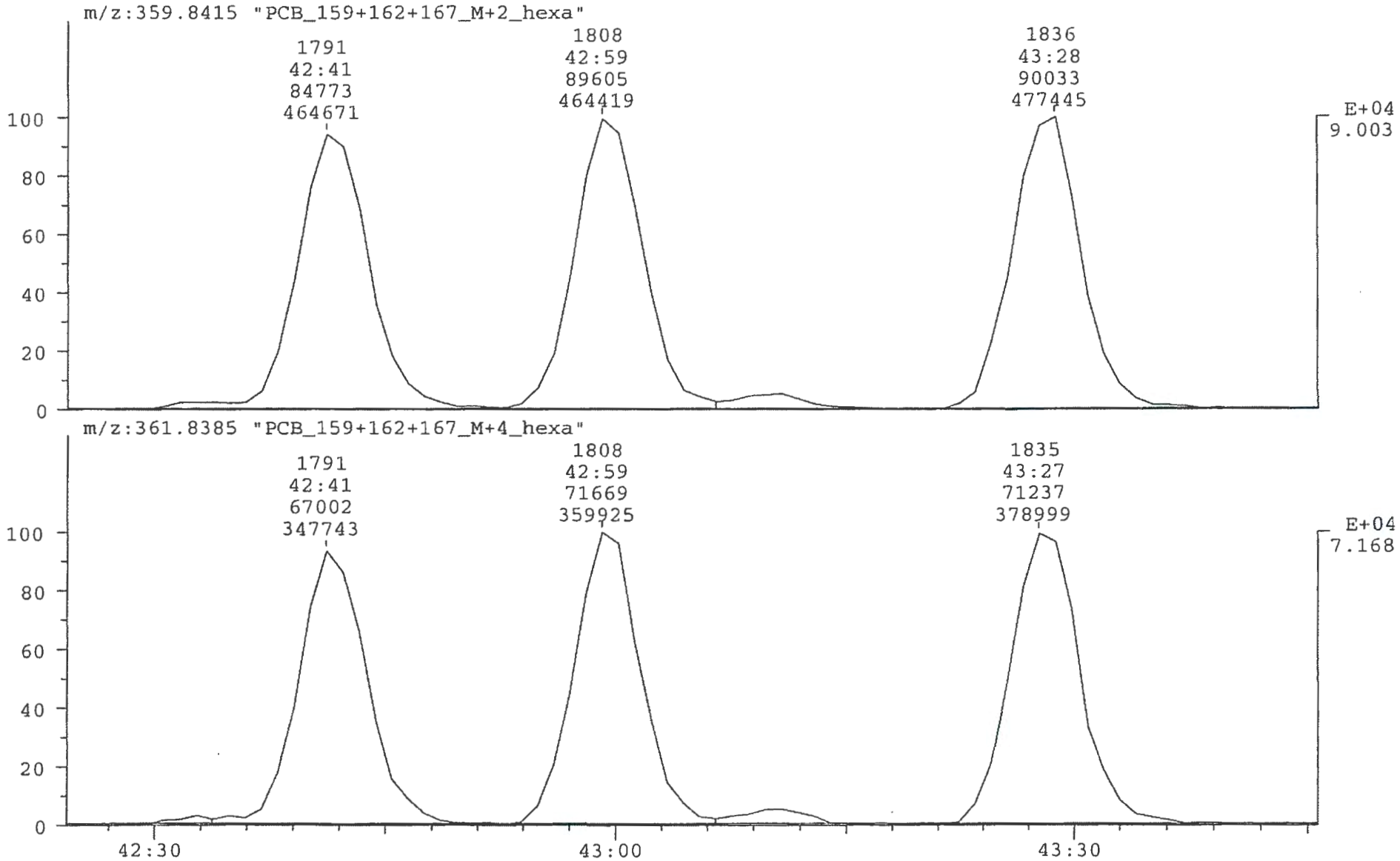


3084

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  41:47      1740
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial 11
Peak:  100.00  ppm      Label wndw:   1715 > 1765          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2               Label :  -3, 3.0
Disp:  Height  Area
```

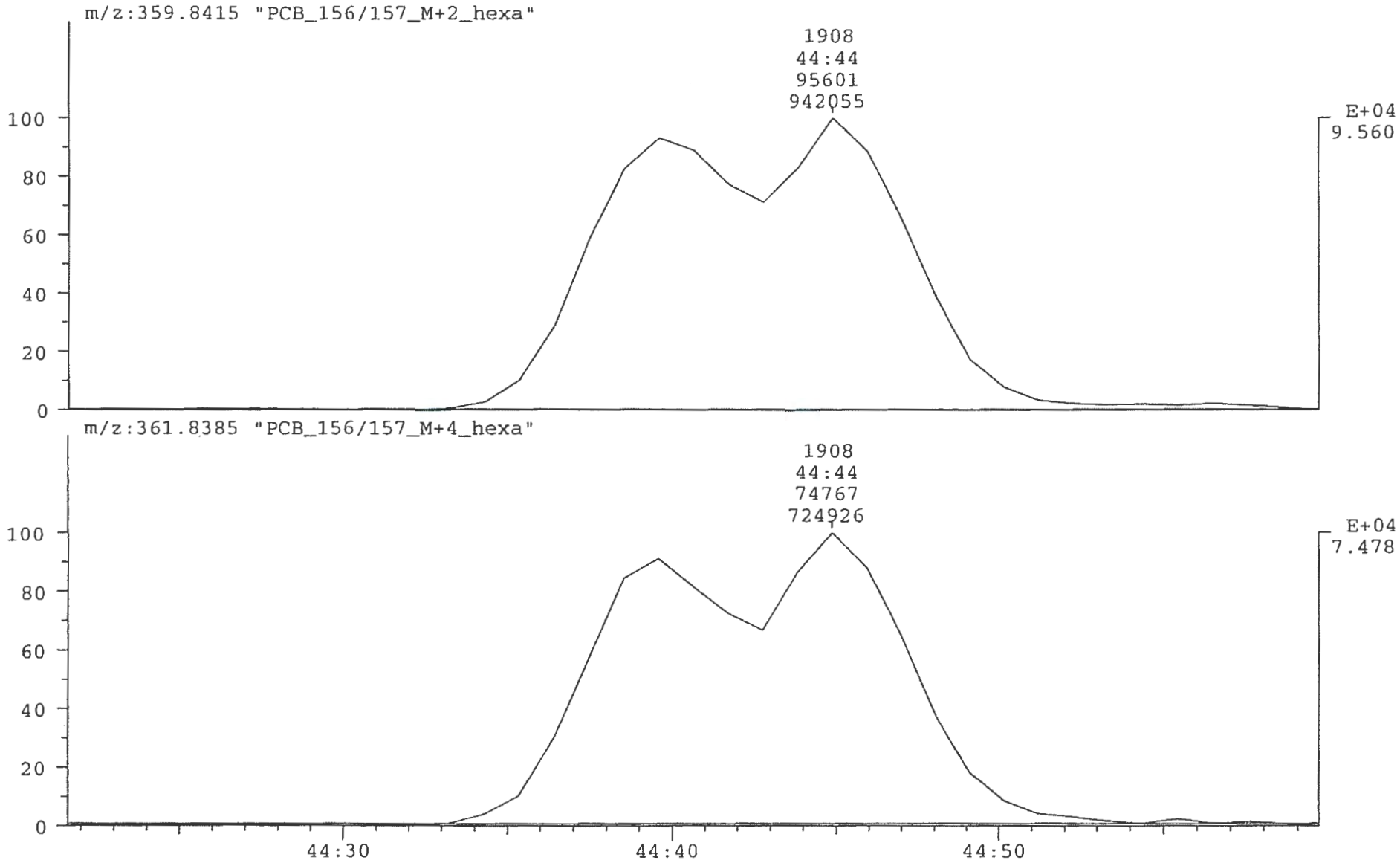


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  43:06      1815
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1775 > 1852          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



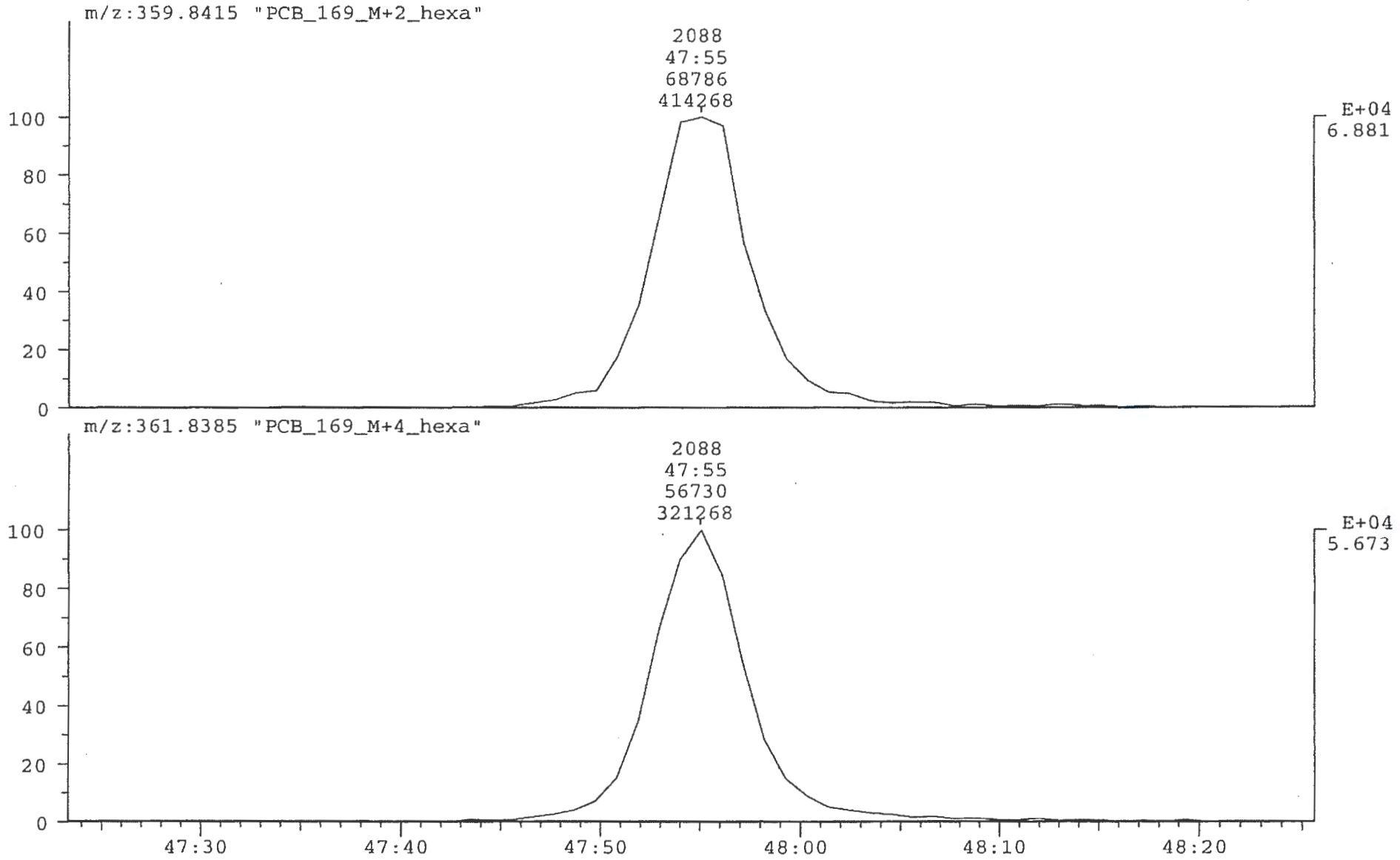
3086

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  44:37      1901
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1886 > 1922          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 9                Label :  -3, 3.0
Disp:  Height  Area
```



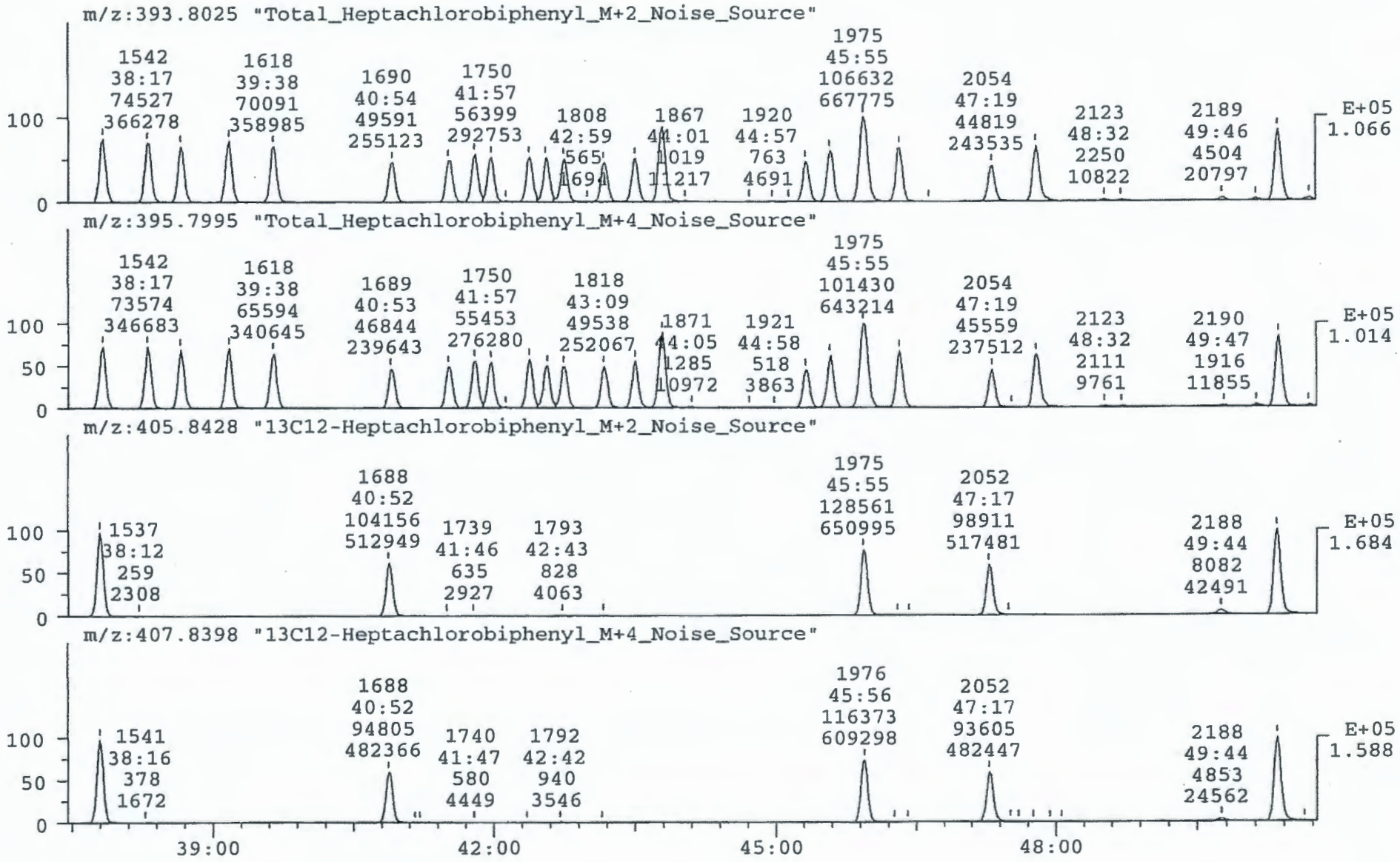
3087

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  47:49      2083
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2058 > 2117          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



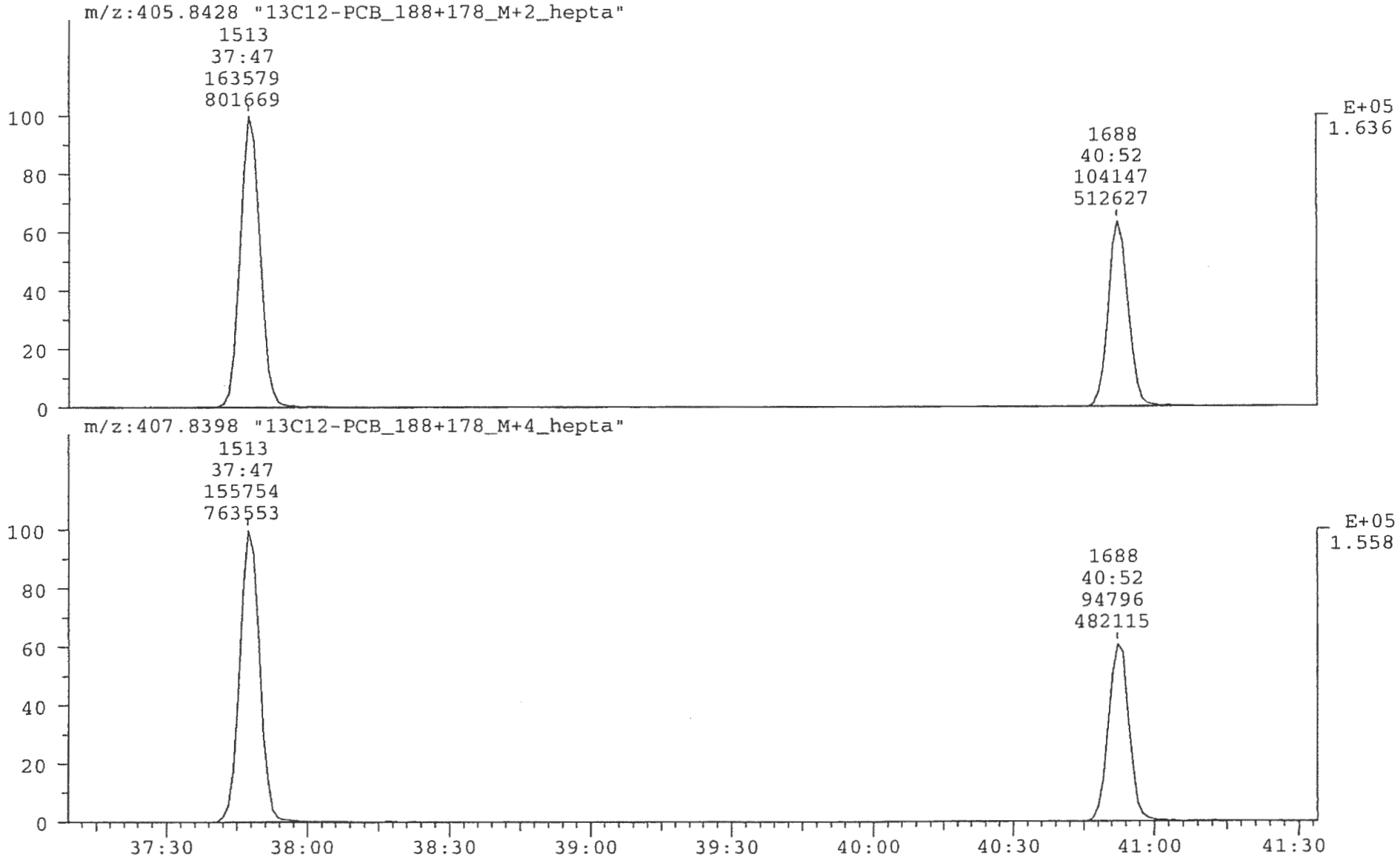
3088

CHRO: apj8alac 12-Oct-07 Elapse: 44:05 1871
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1494 > 2245 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



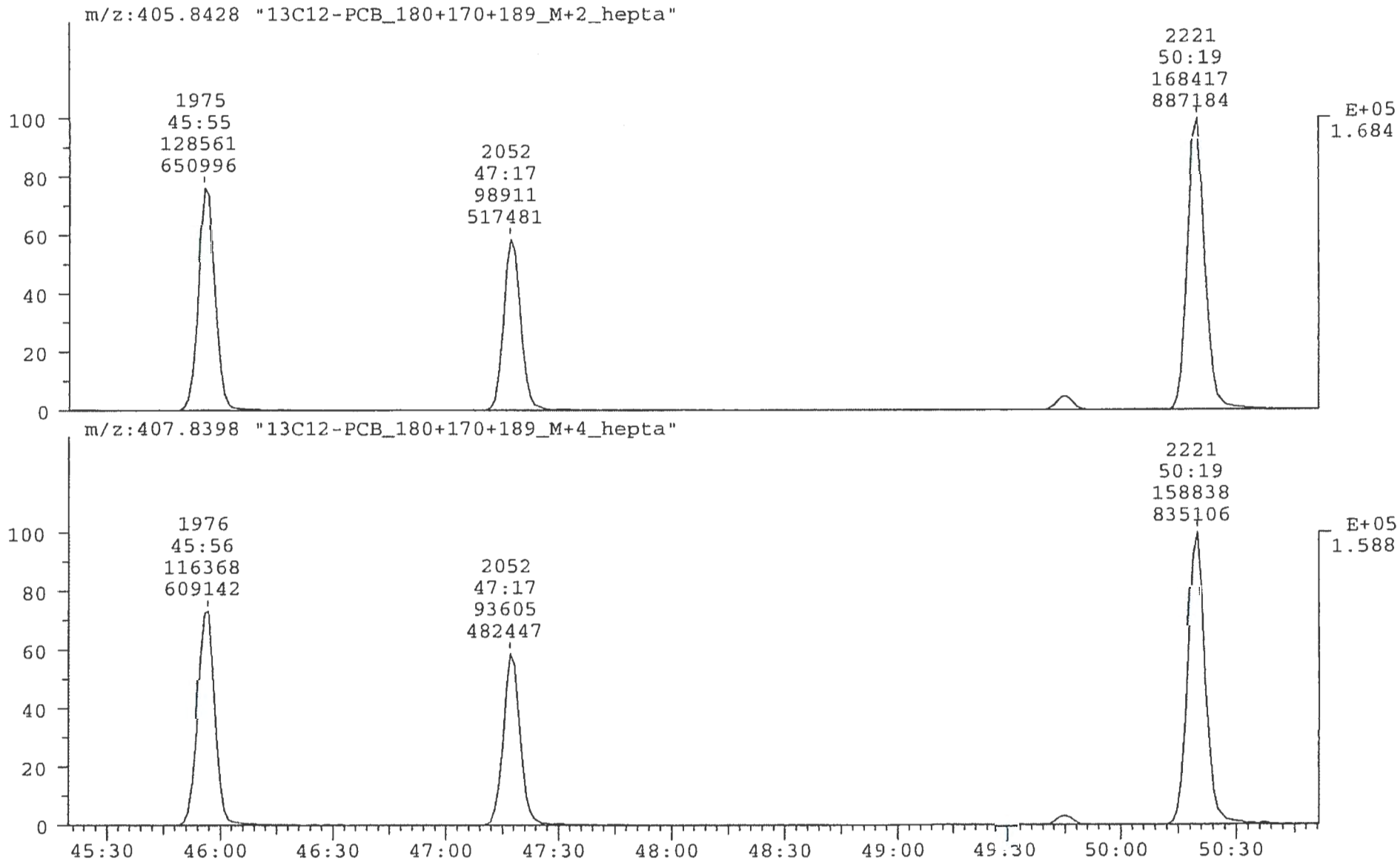
3089

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  39:21      1502
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1477 > 1728          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



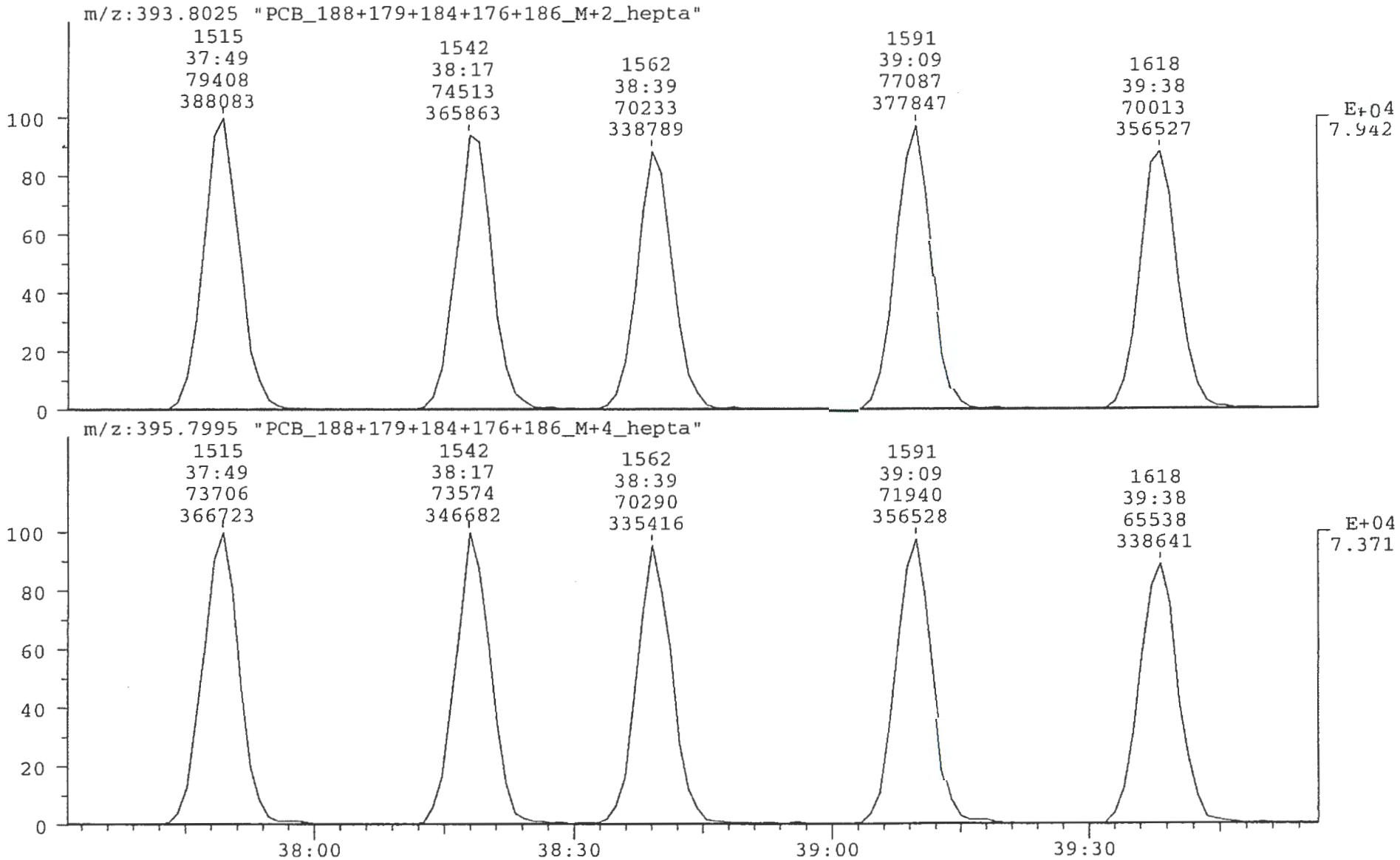
3090

CHRO: apj8alac 12-Oct-07 Elapse: 48:08 2101
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1941 > 2251 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



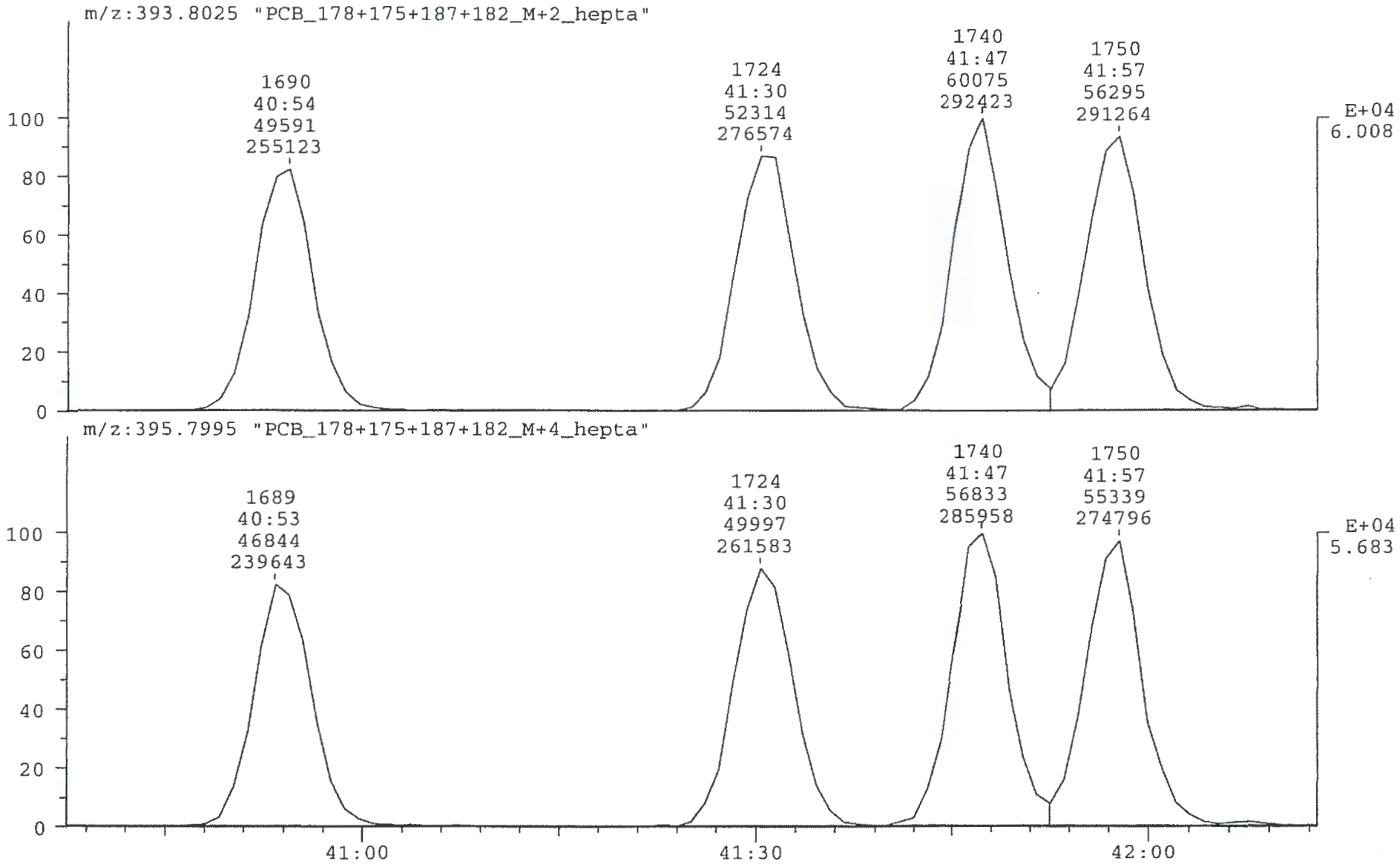
3091

CHRO: apj8alac 12-Oct-07 Elapse: 38:43 1566
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1498 > 1635 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

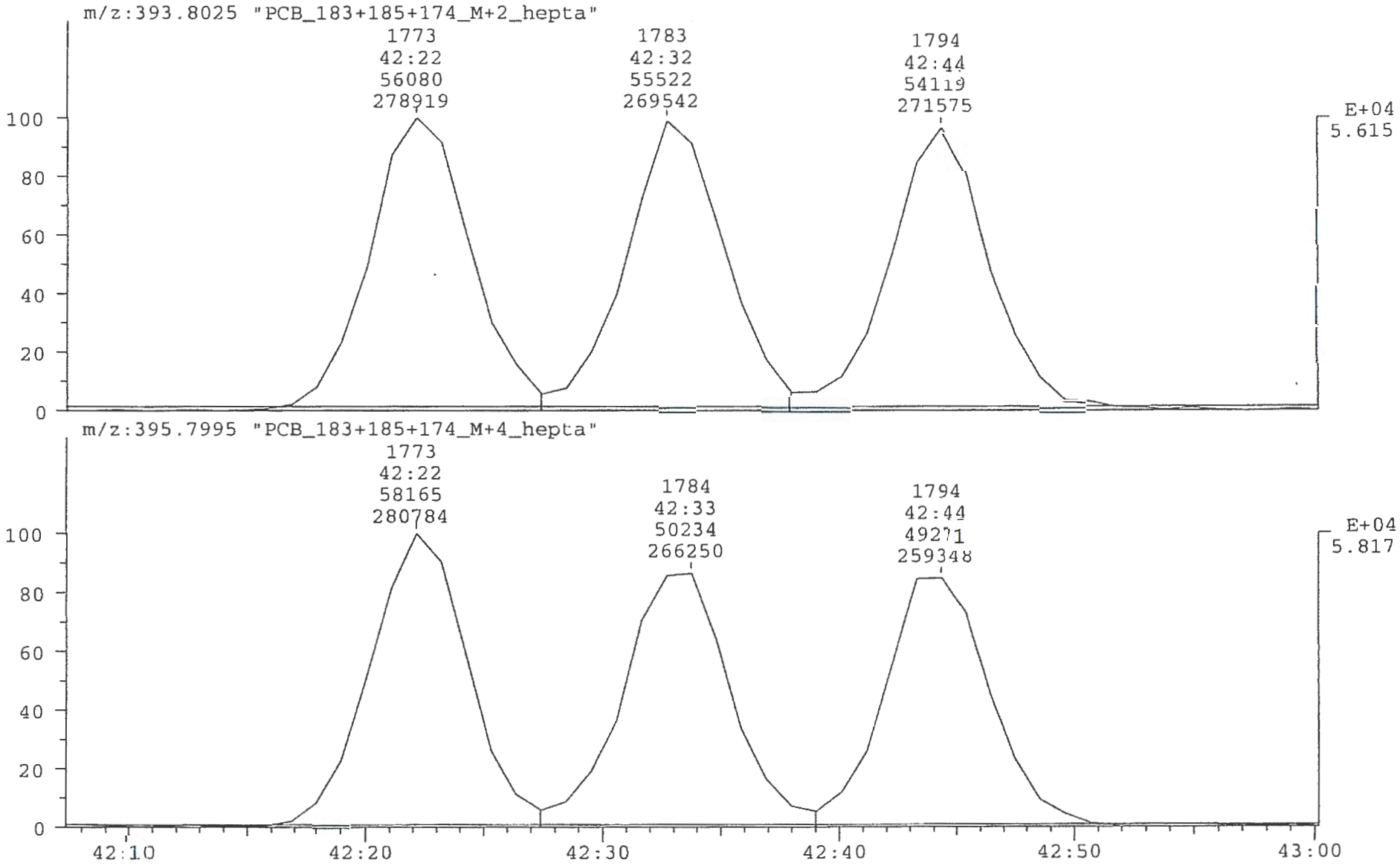


3092

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  41:30      1724
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1674 > 1764          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

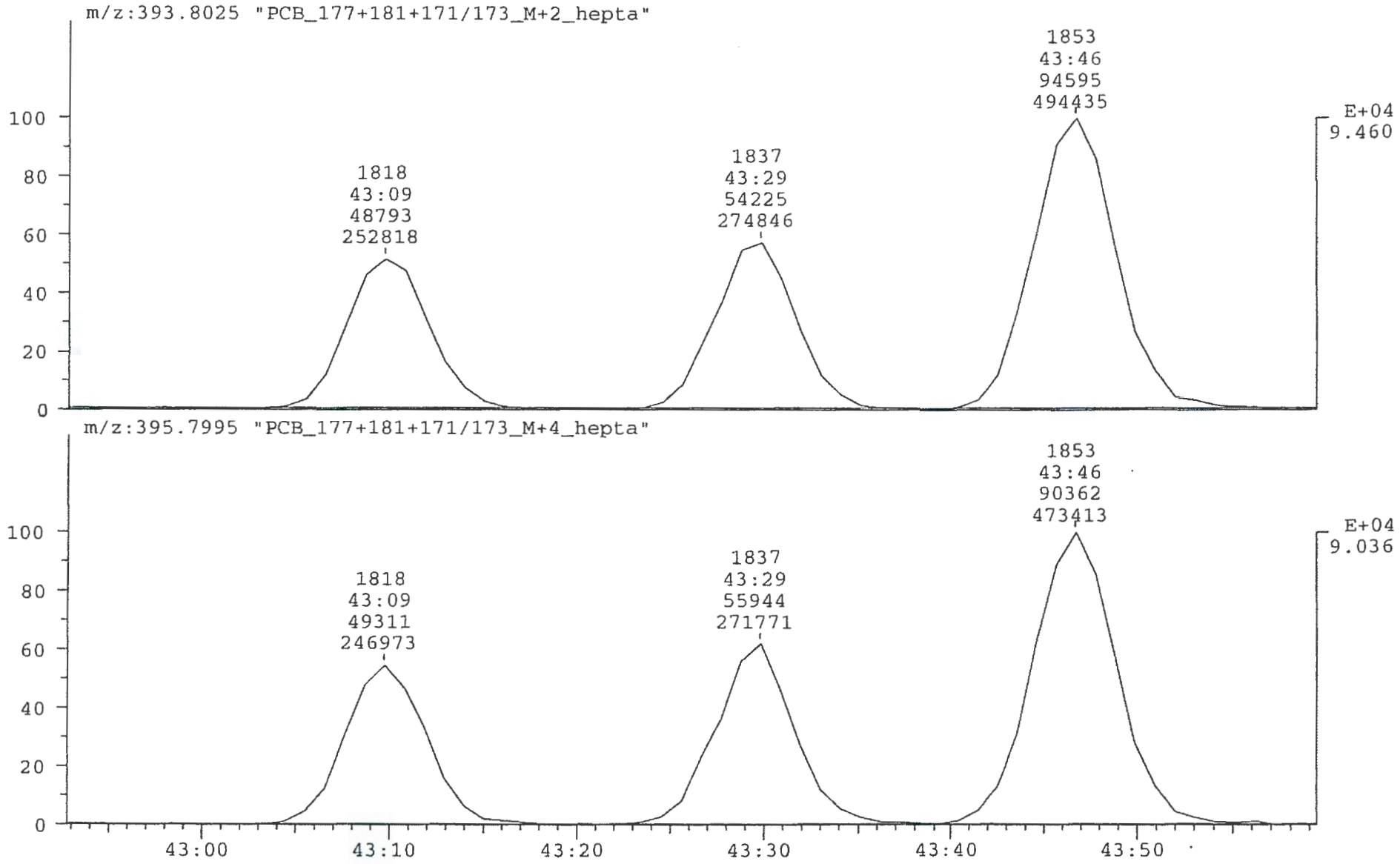


CHRO: apj8a1ac 12-Oct-07 Elapse: 42:41 1791
Samp: Vial 11 WO=j8a1a1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1759 > 1809 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

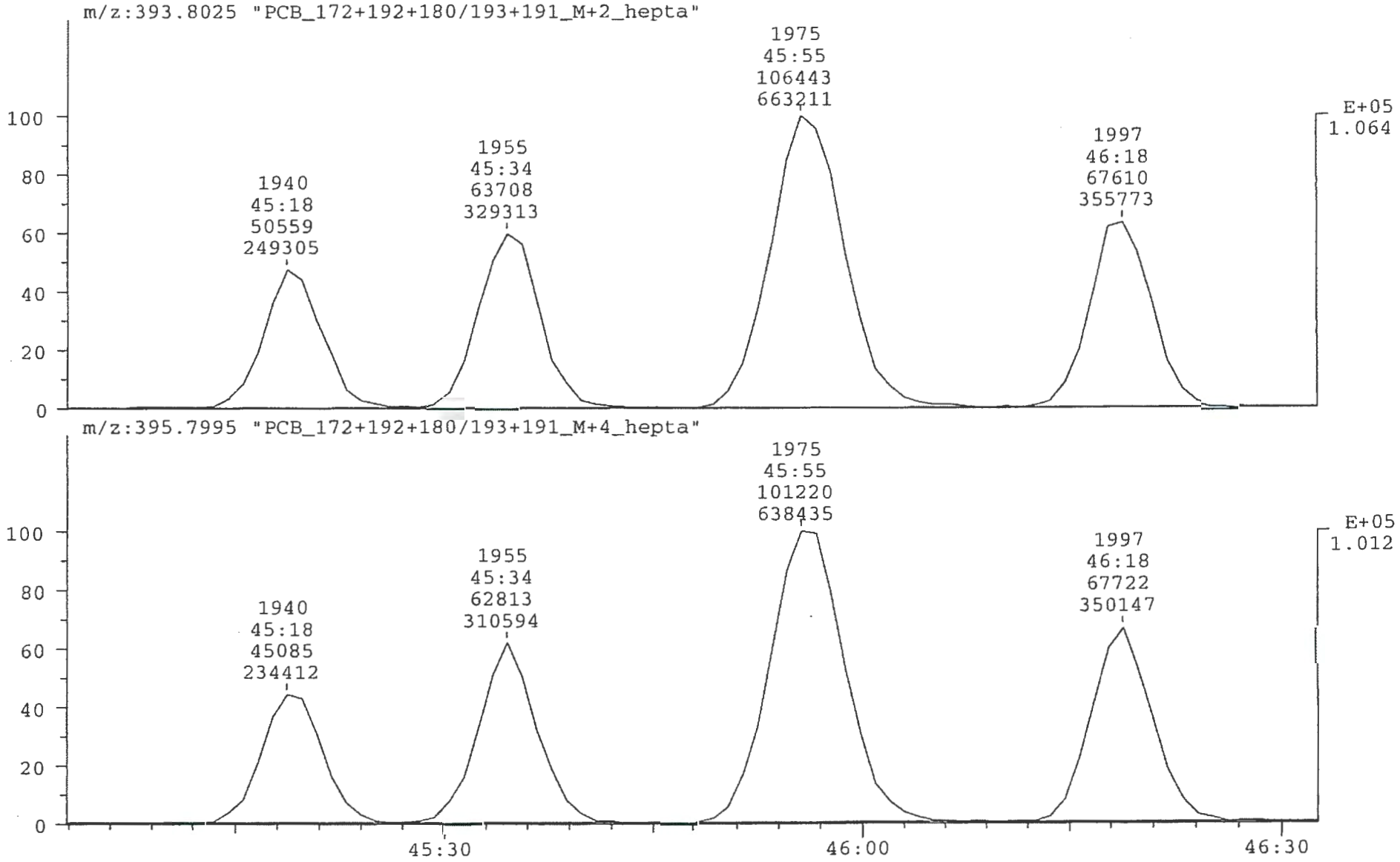


3094

CHRO: apj8alac 12-Oct-07 Elapse: 43:27 1835
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1802 > 1865 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

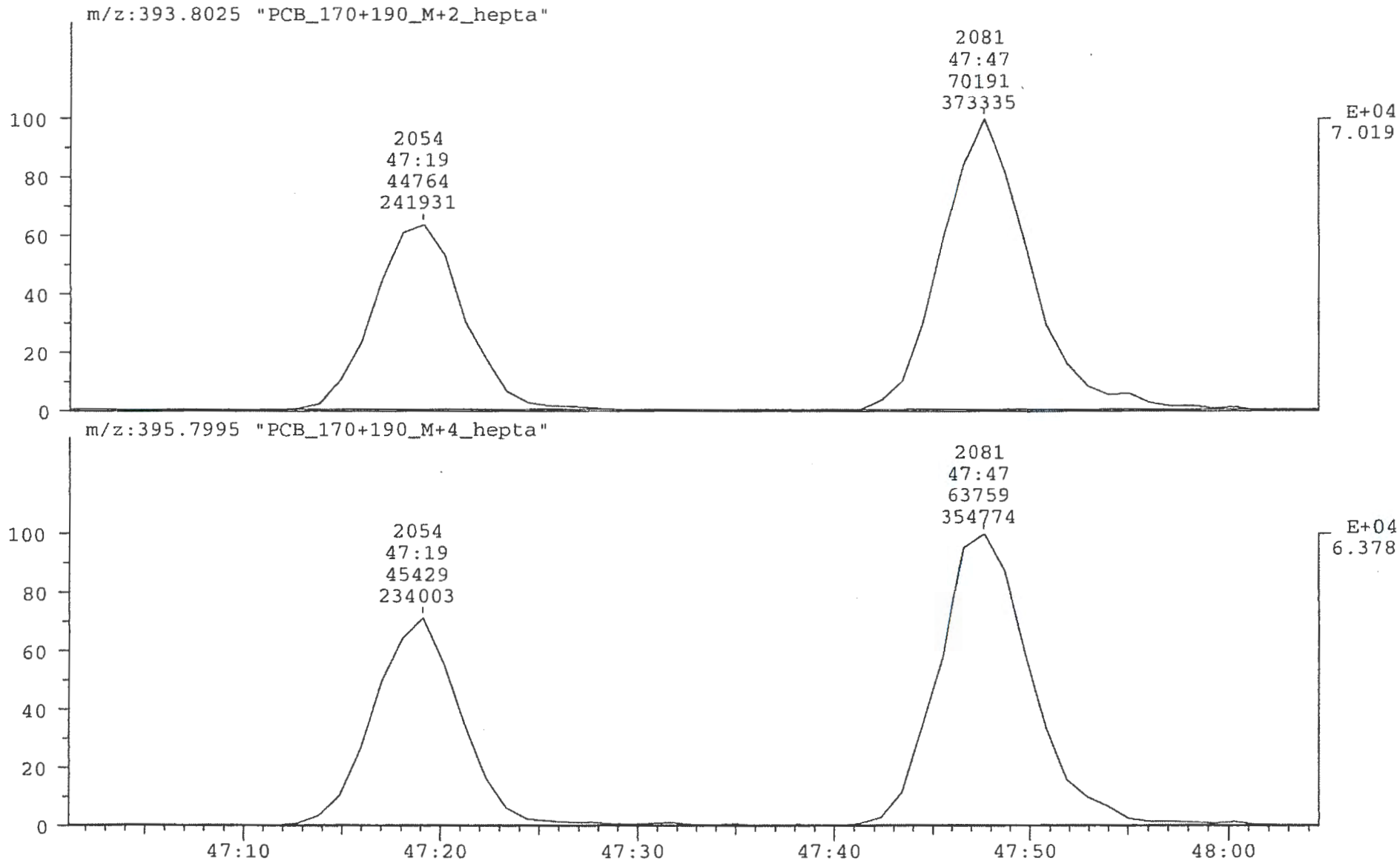


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  45:55      1975
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1925 > 2010          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

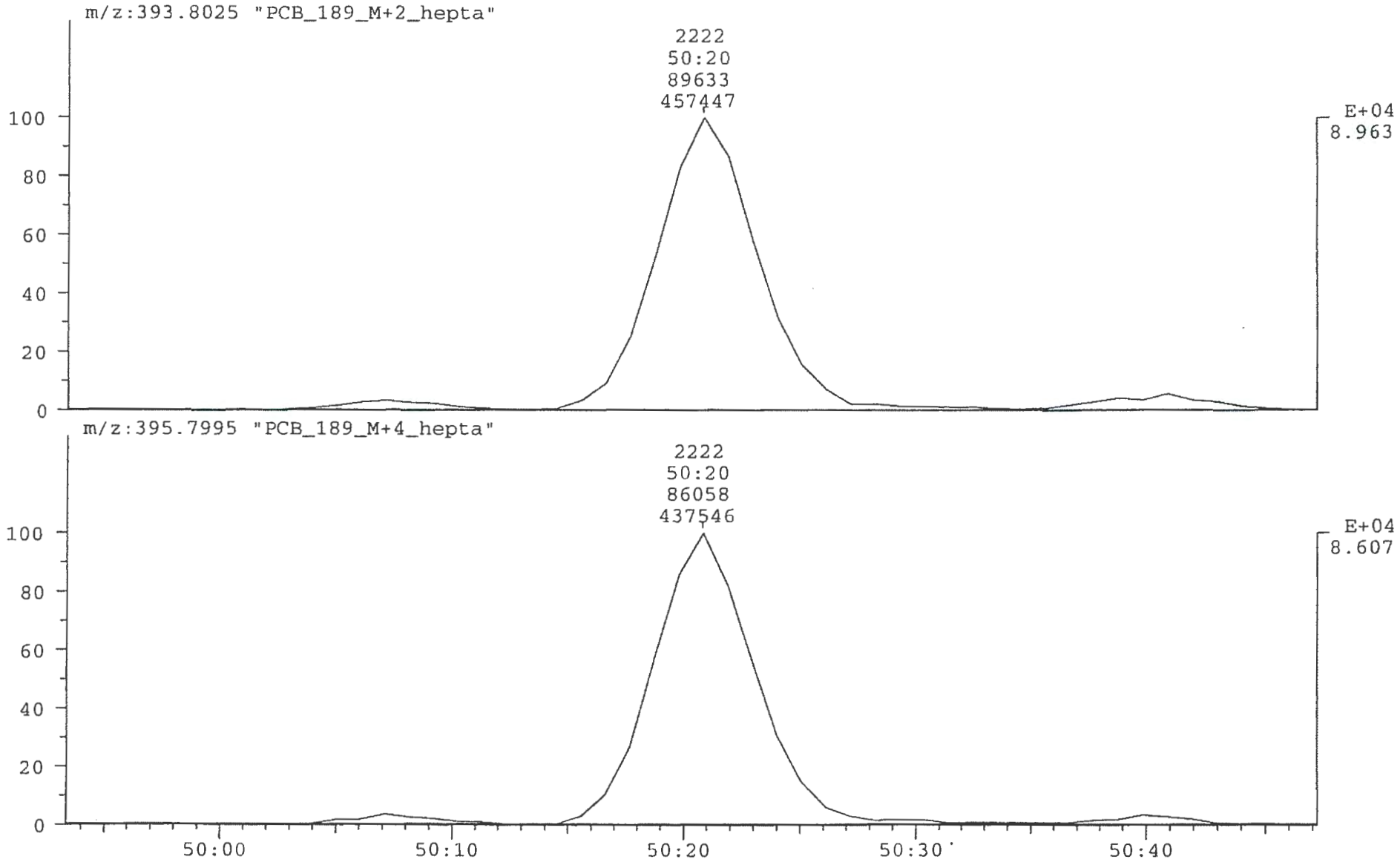


3096

CHRO: apj8alac 12-Oct-07 Elapse: 47:34 2069
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2037 > 2097 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

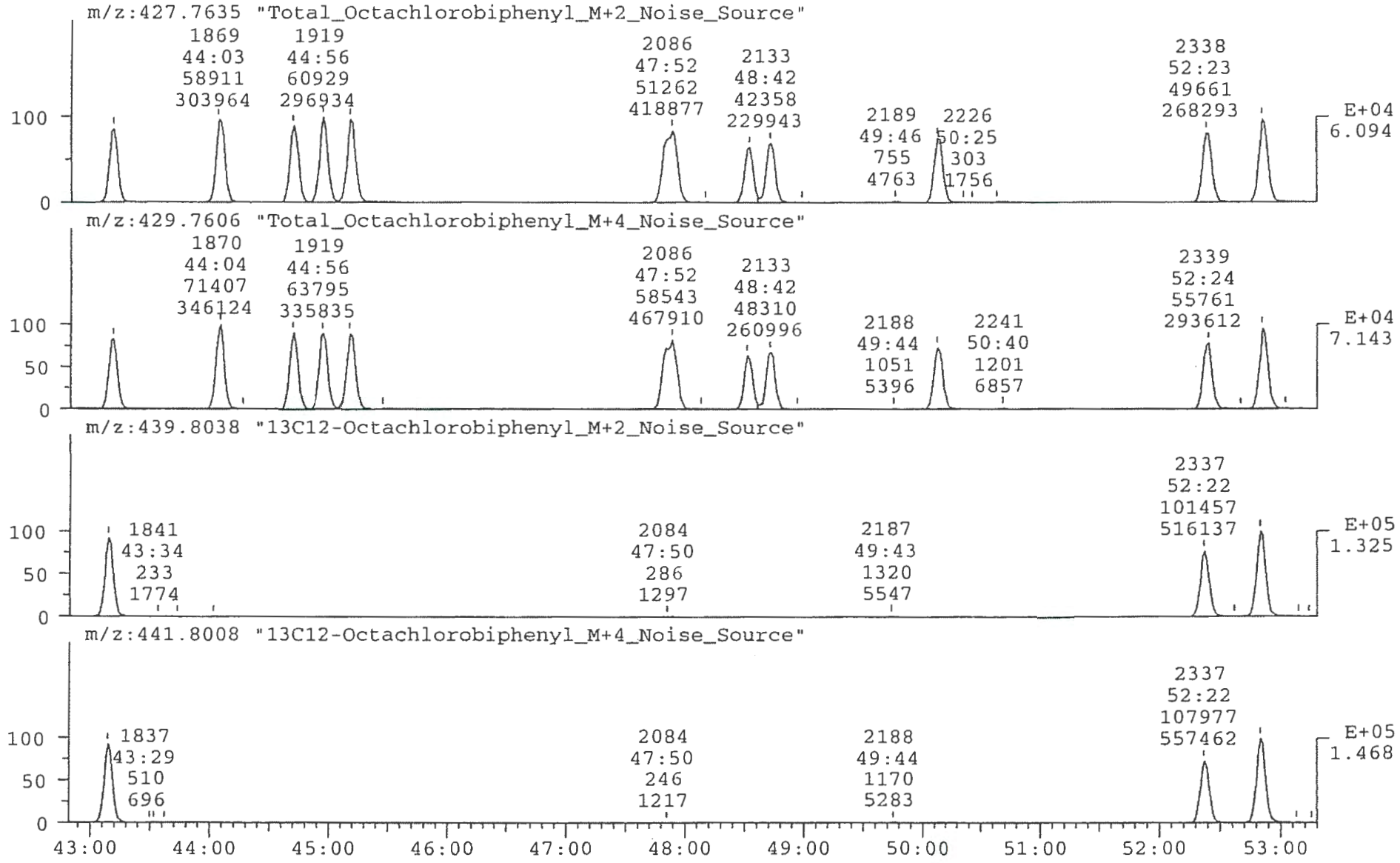


CHRO: apj8alac 12-Oct-07 Elapse: 50:18 2220
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2196 > 2247 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

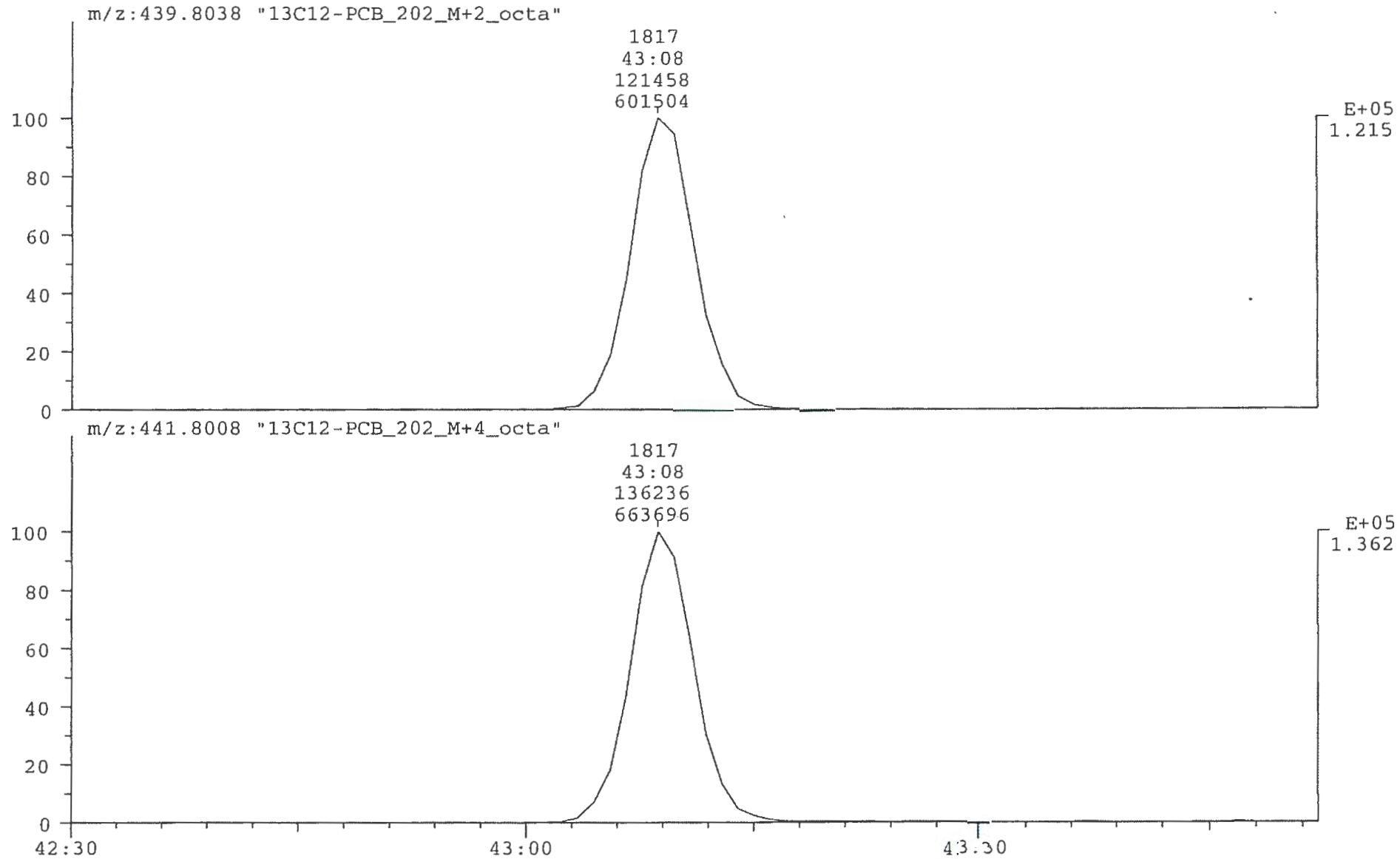


3098

CHRO: apj8alac 12-Oct-07 Elapse: 48:03 2096
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1798 > 2390 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

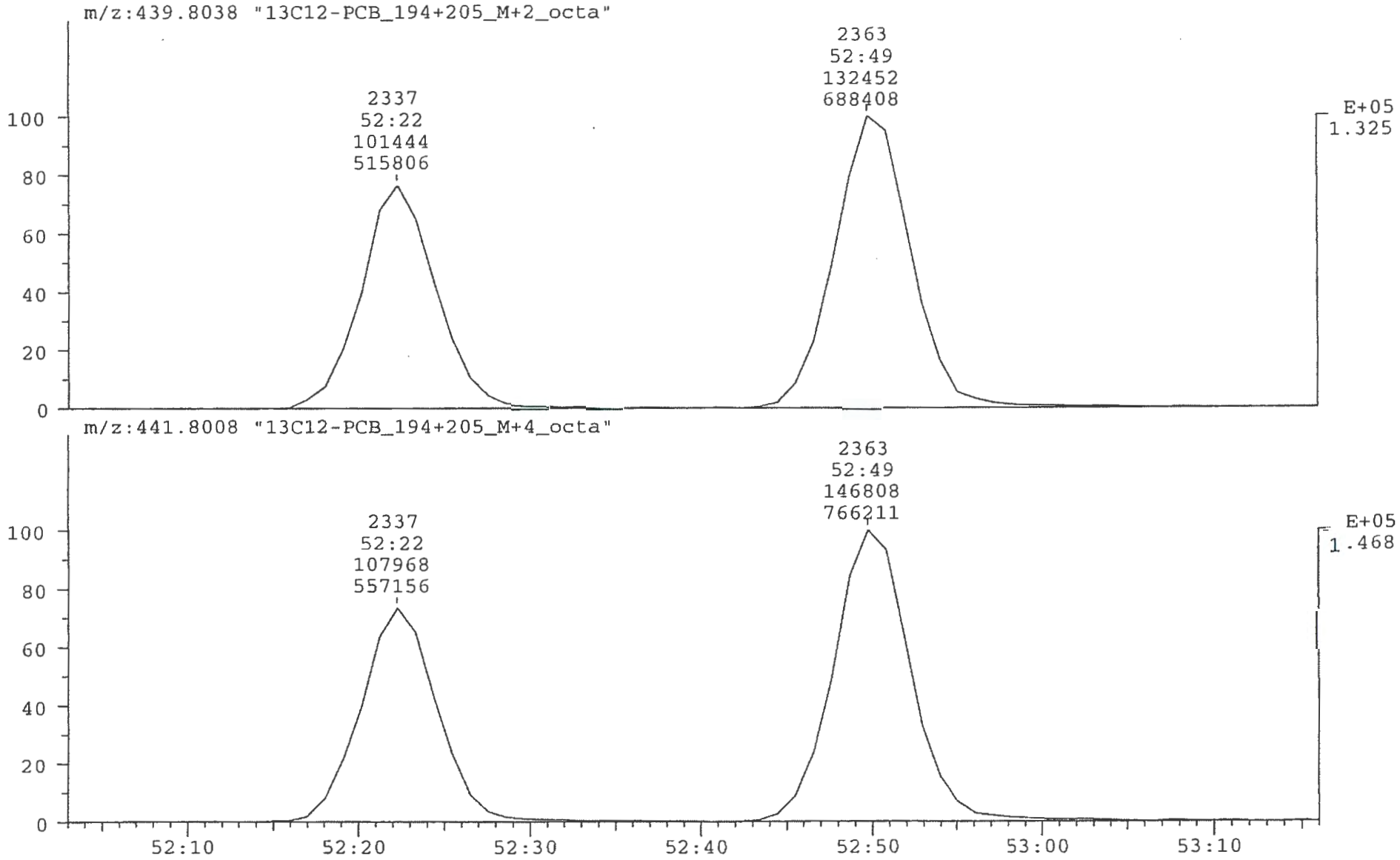


```
CHRO:  apj8alac                                12-Oct-07   Elapse:  43:07      1816
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial 11
Peak:  100.00  ppm      Label wndw:   1780 > 1858          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

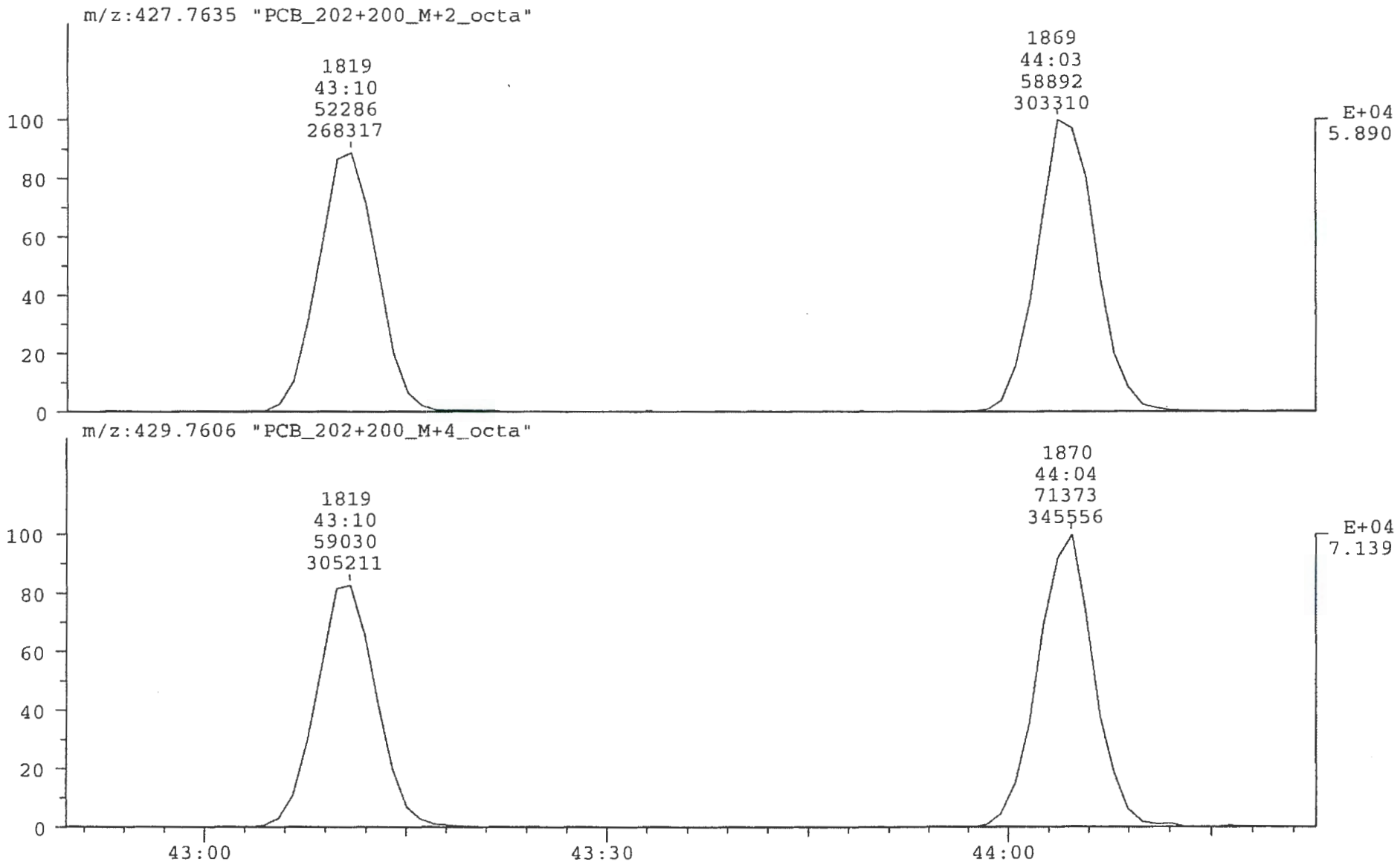


3100

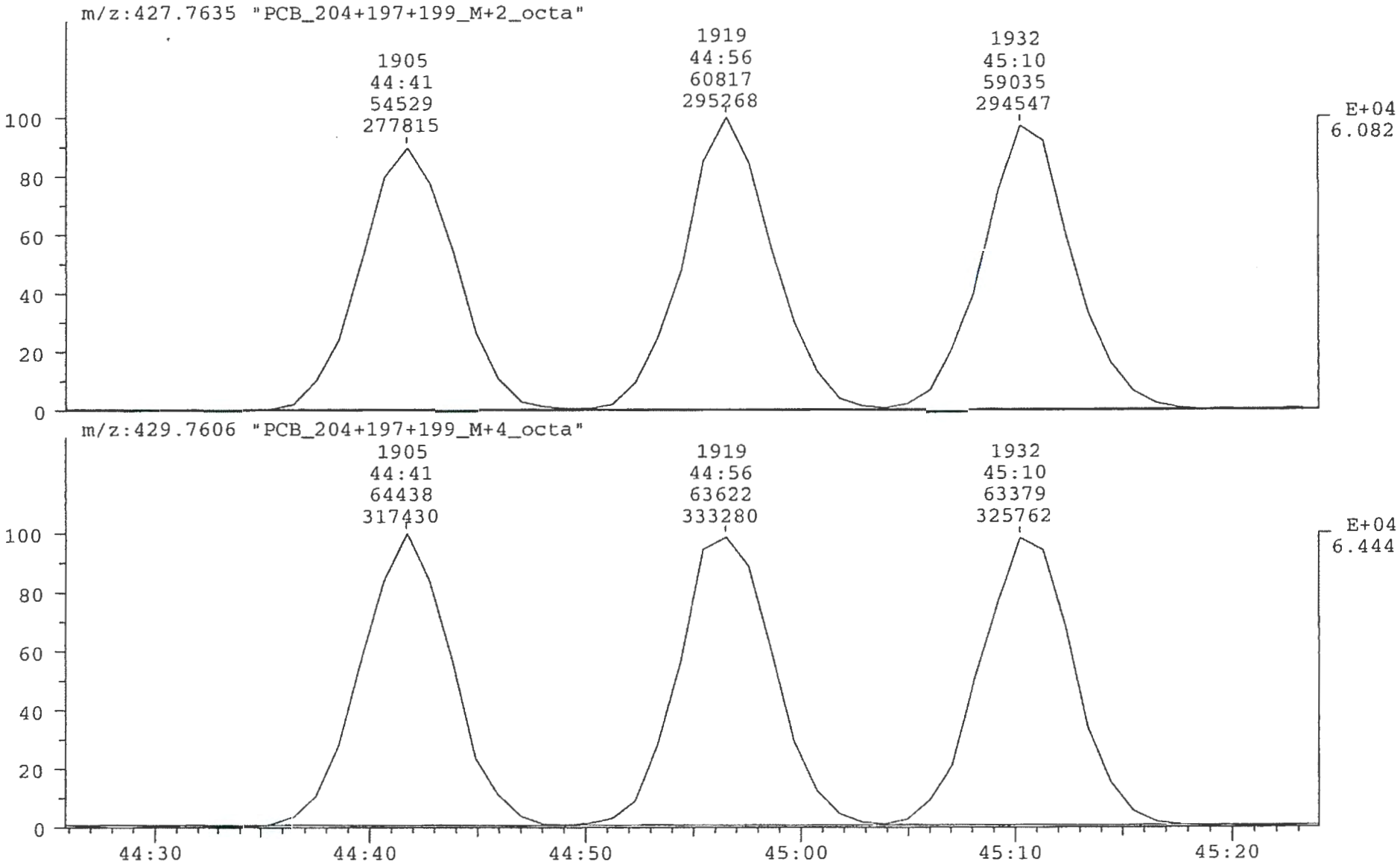
CHRO: apj8alac 12-Oct-07 Elapse: 52:39 2353
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2501
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2319 > 2388 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  apj8alac                                12-Oct-07  Elapse:  43:40      1847
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                 Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C             Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   1799 > 1887         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

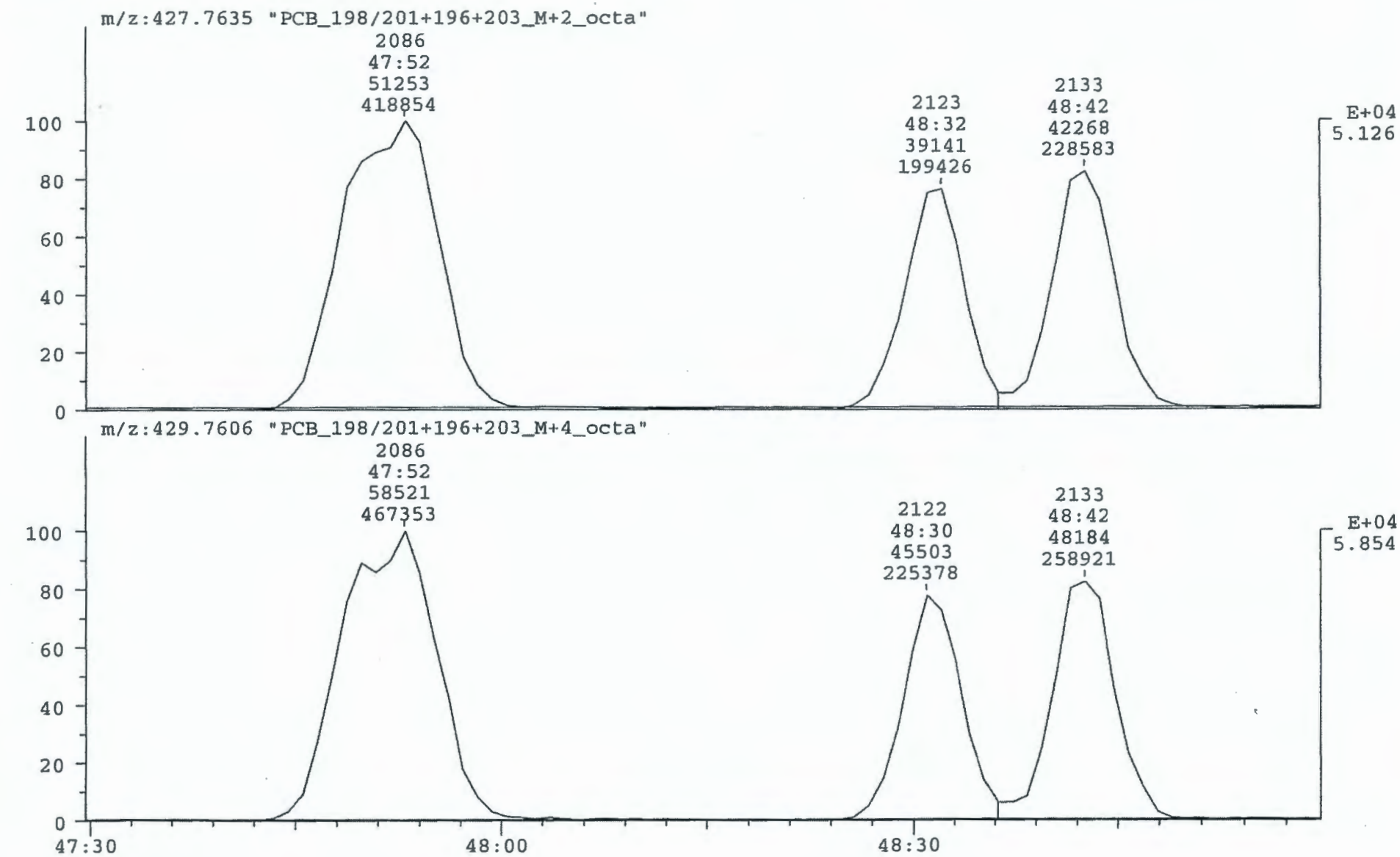


CHRO: apj8alac 12-Oct-07 Elapse: 44:42 1906
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1890 > 1945 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



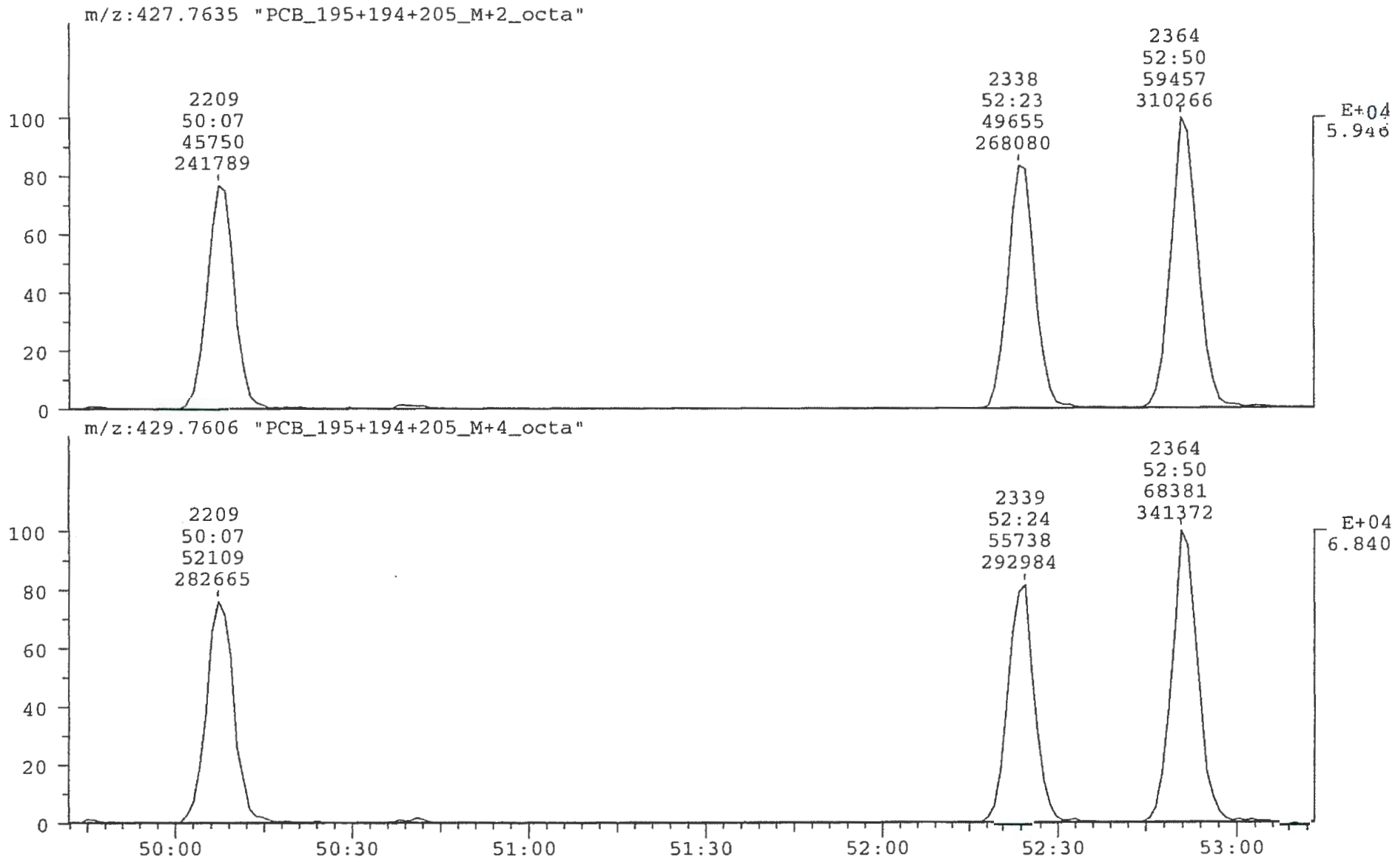
3103

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  48:33      2124
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2064 > 2149          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

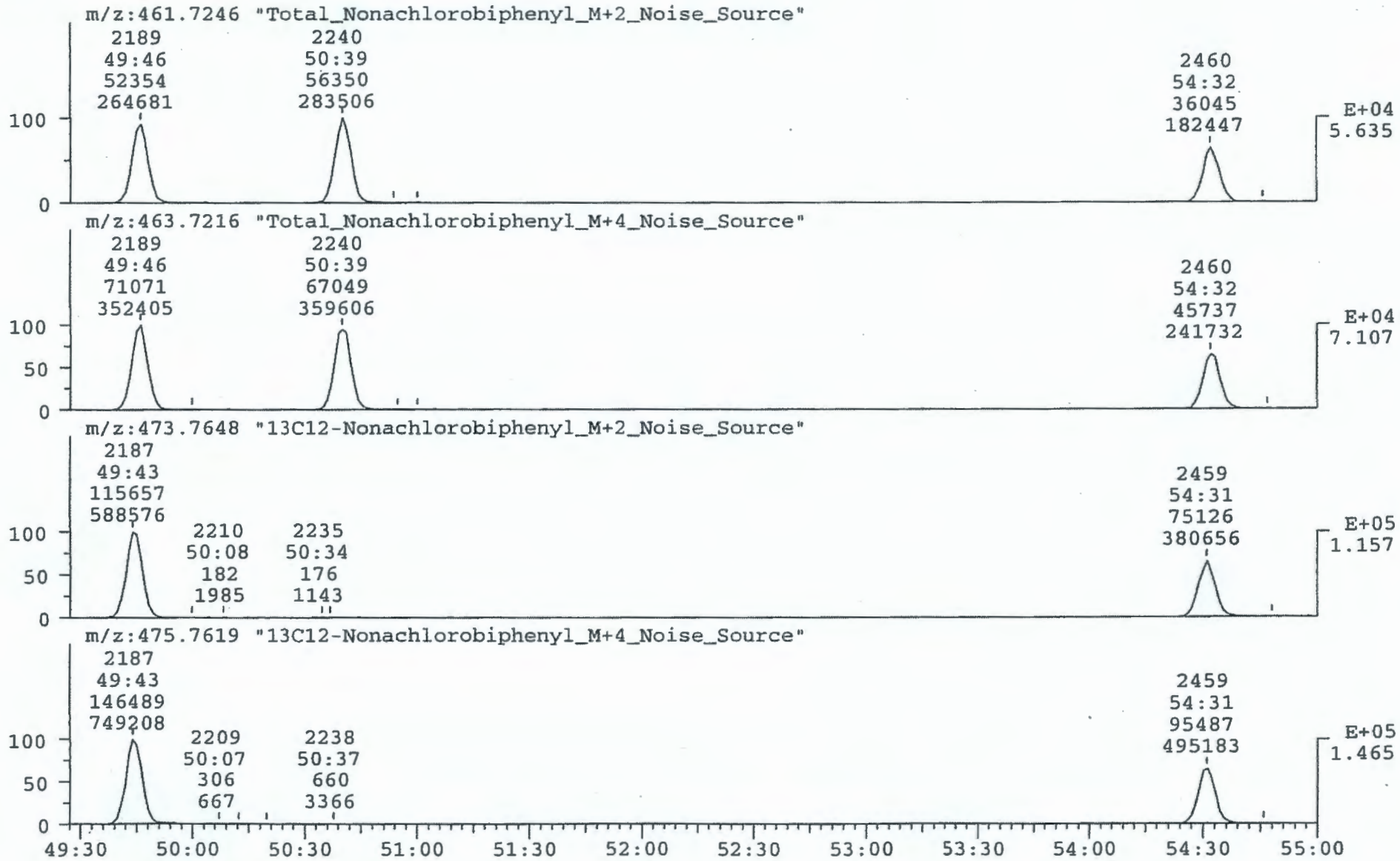


3104

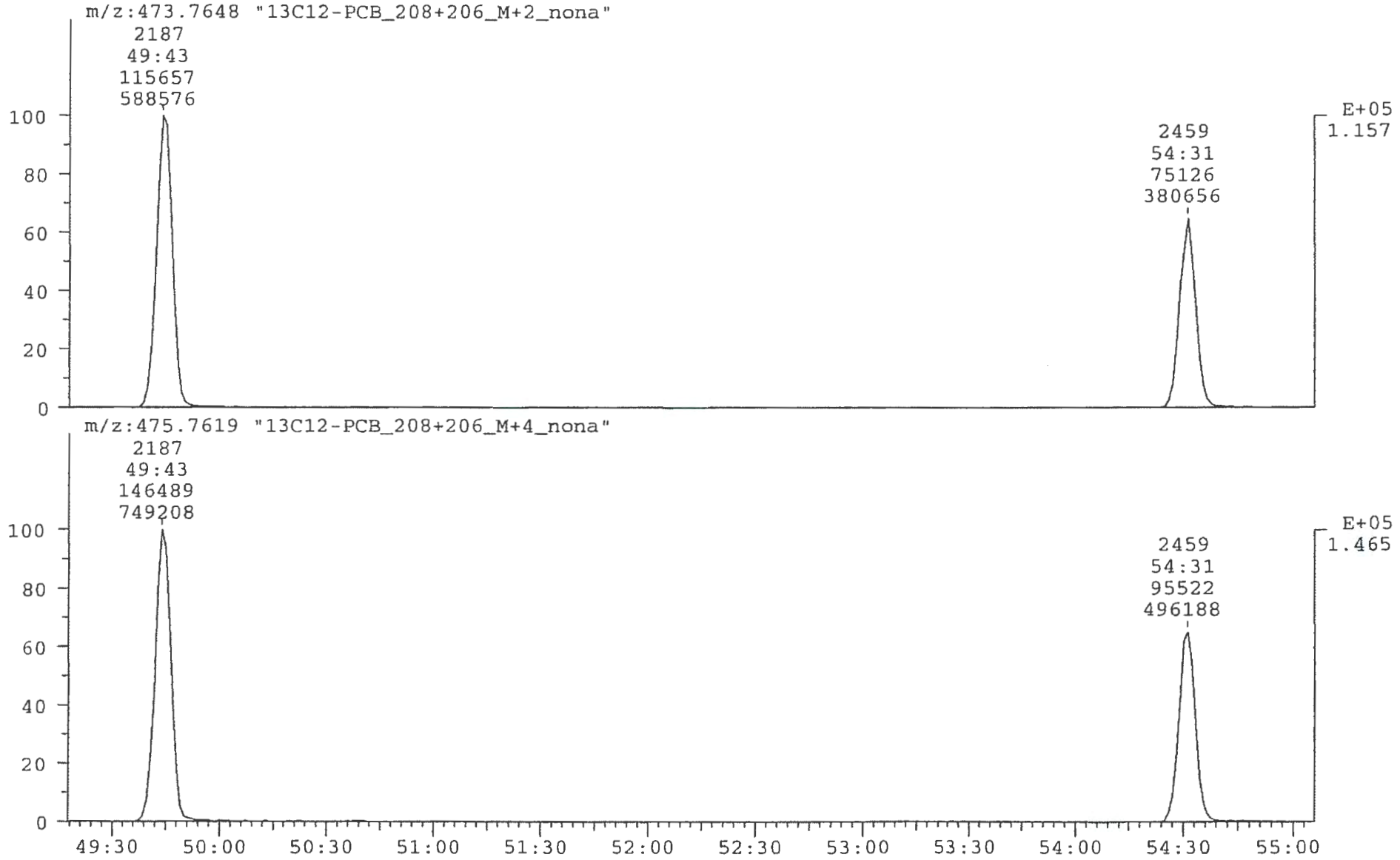
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  52:25      2340
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2185 > 2385          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



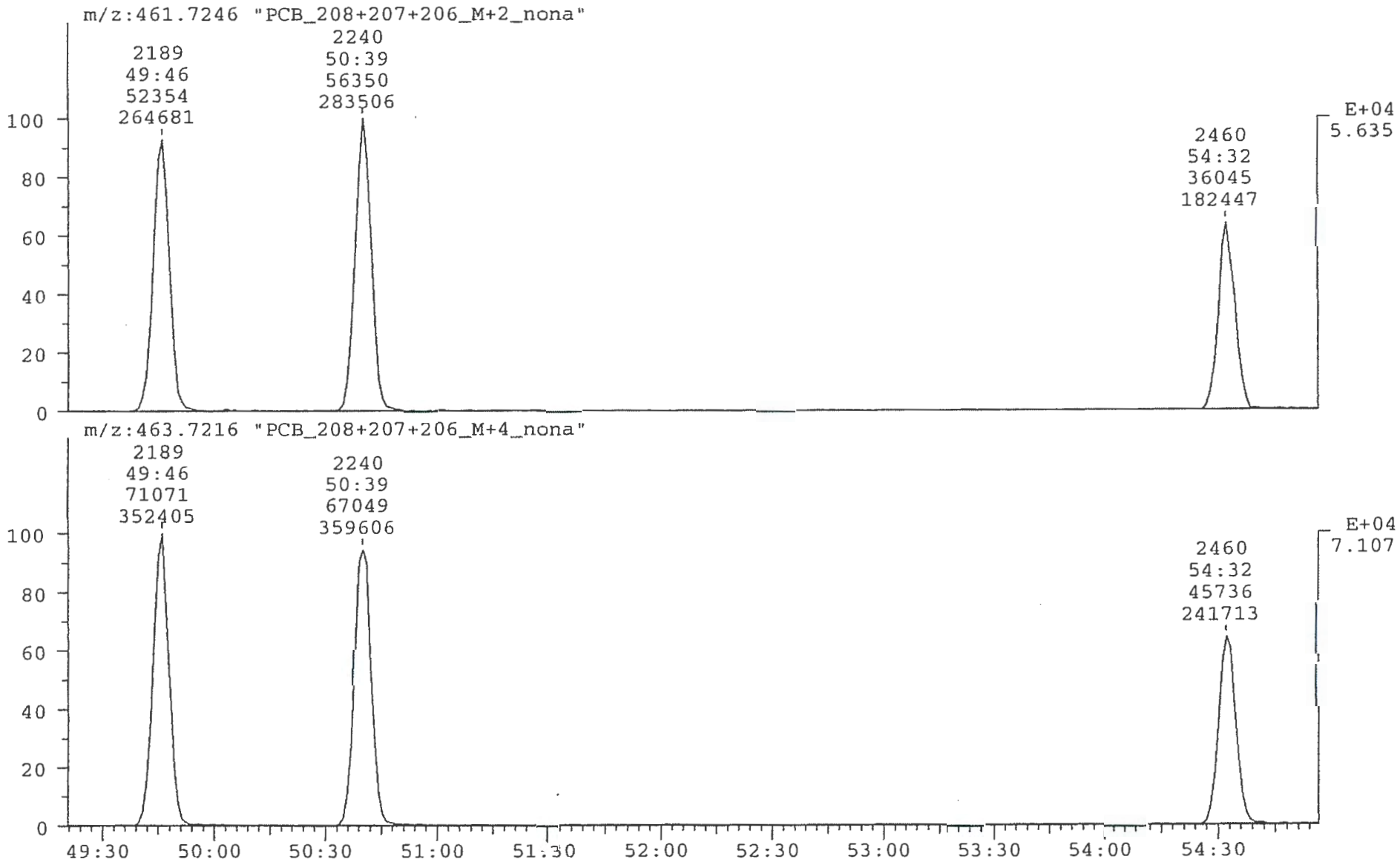
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  52:12      2328
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2171 > 2486          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



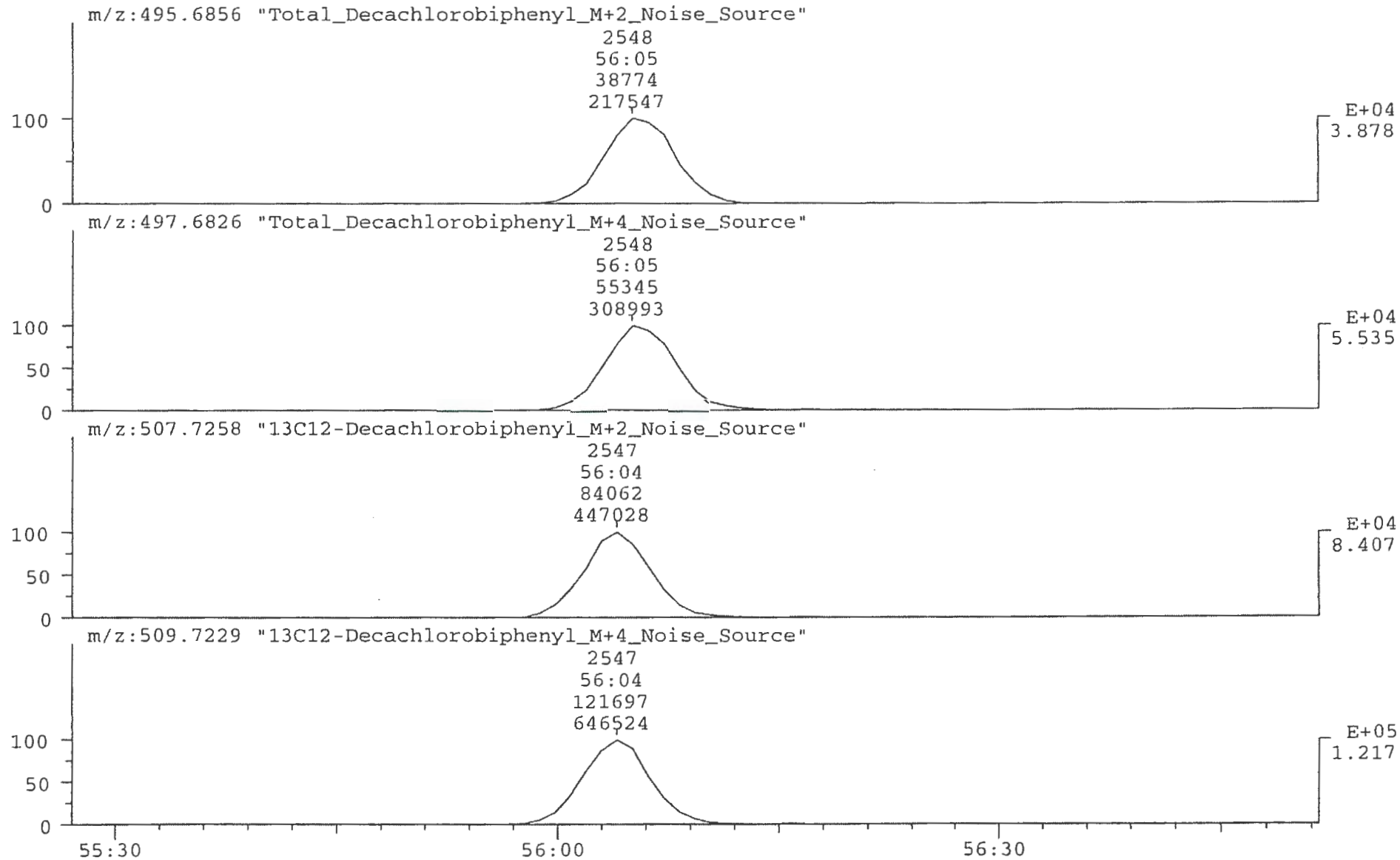
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  52:11      2327
Samp:  Vial 11 WO=j8alalac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=mld/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2162 > 2492          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



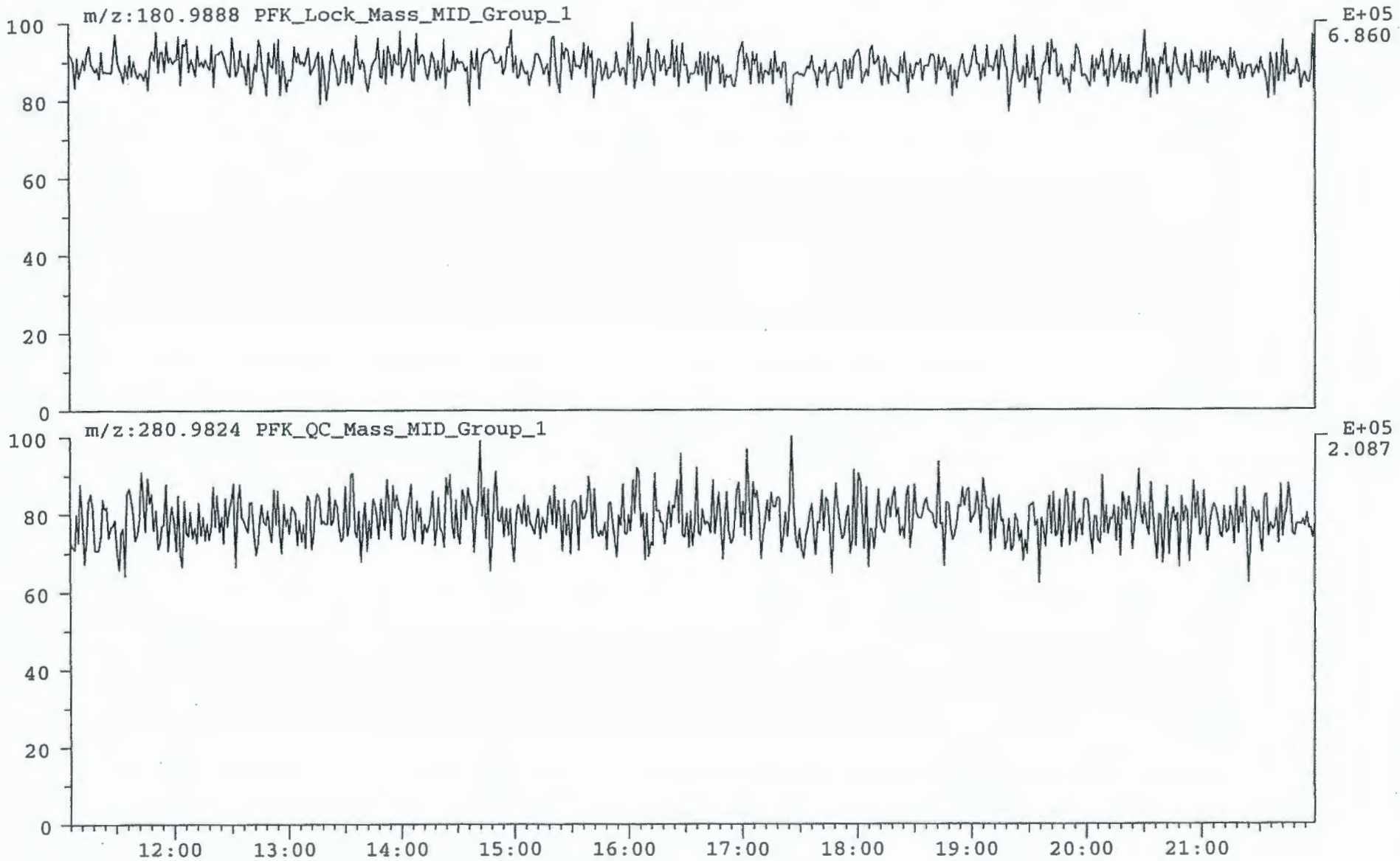
```
CHRO:  apj8alac                                12-Oct-07   Elapse:  52:12      2328
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2165 > 2483          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  apj8alac                                12-Oct-07   Elapse:  56:12      2555
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   2512 > 2592          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

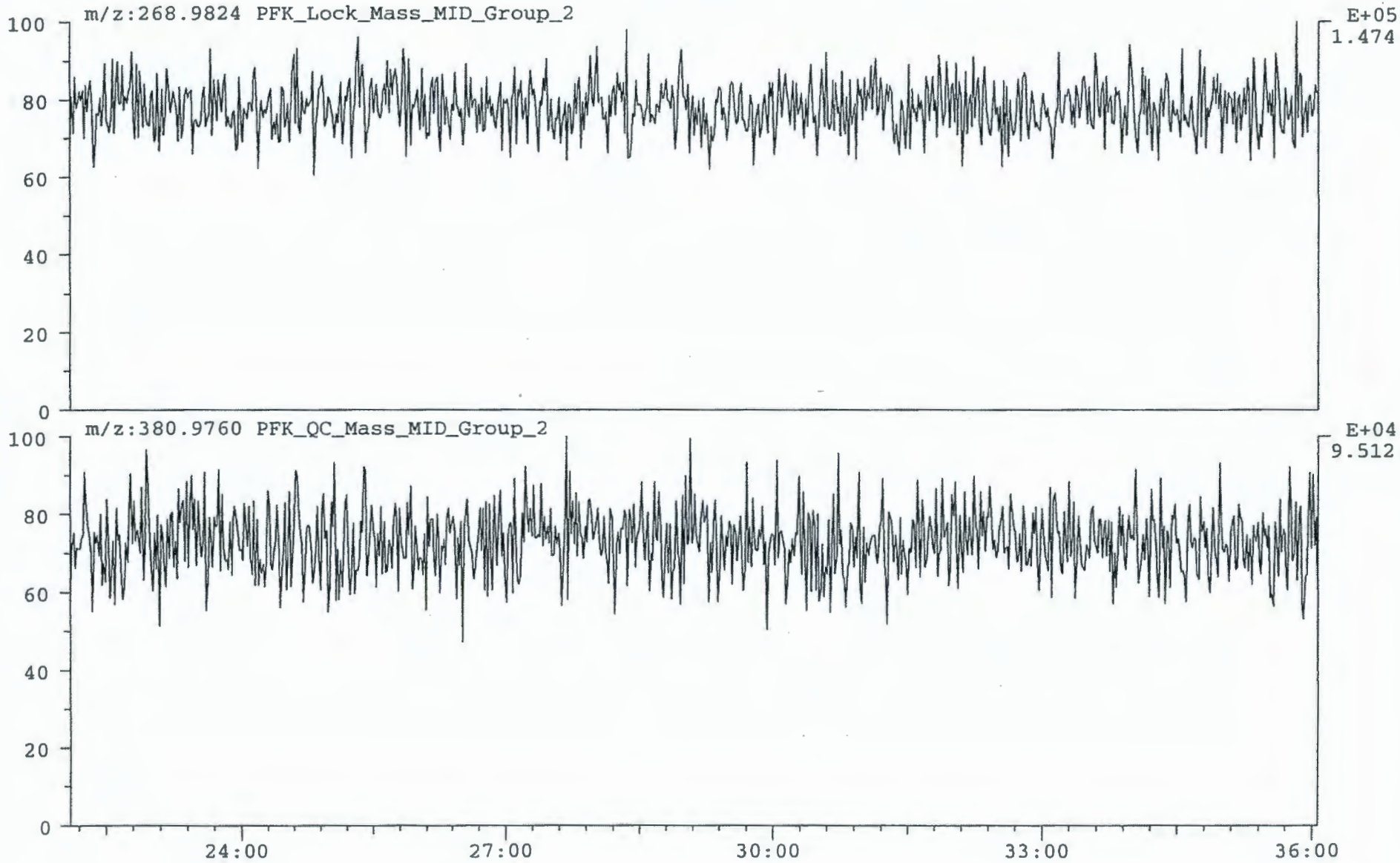


CHRO: apj8alac 12-Oct-07 Elapse: 56:12 2555
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 6 > 624 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

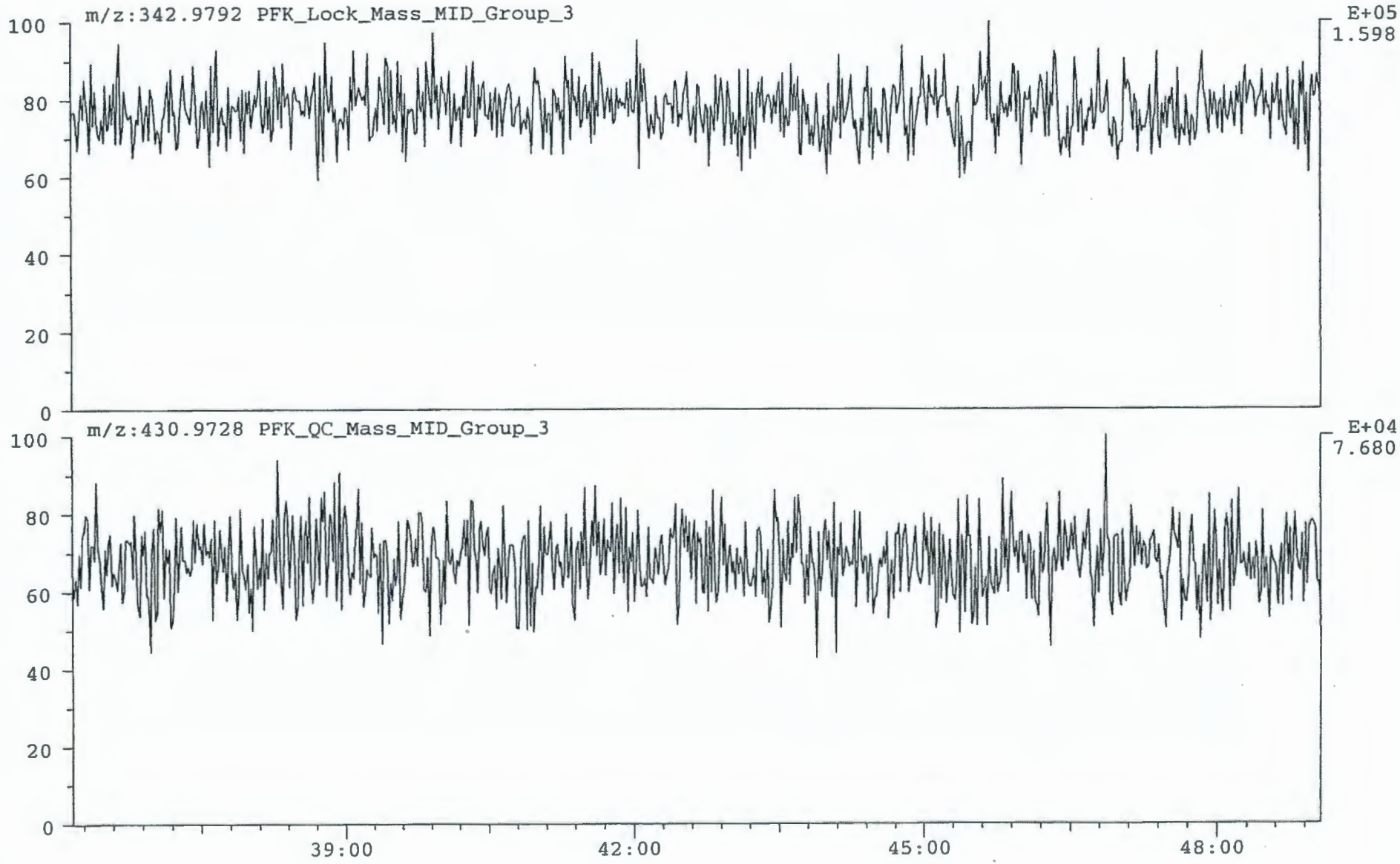


3110

```
CHRO:  apj8alac                                12-Oct-07   Elapse:  56:12      2555
Samp:  Vial 11 WO=j8ala1ac Meth=IE5 Dil=1                  Start :  12:06:30   2601
Comm:  Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  7278087 (10.0g)
Oper:  DCG            Client:  H7J050000-087C              Inlet :  GC     Vial  11
Peak:  100.00  ppm      Label wndw:   627 > 1420           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```

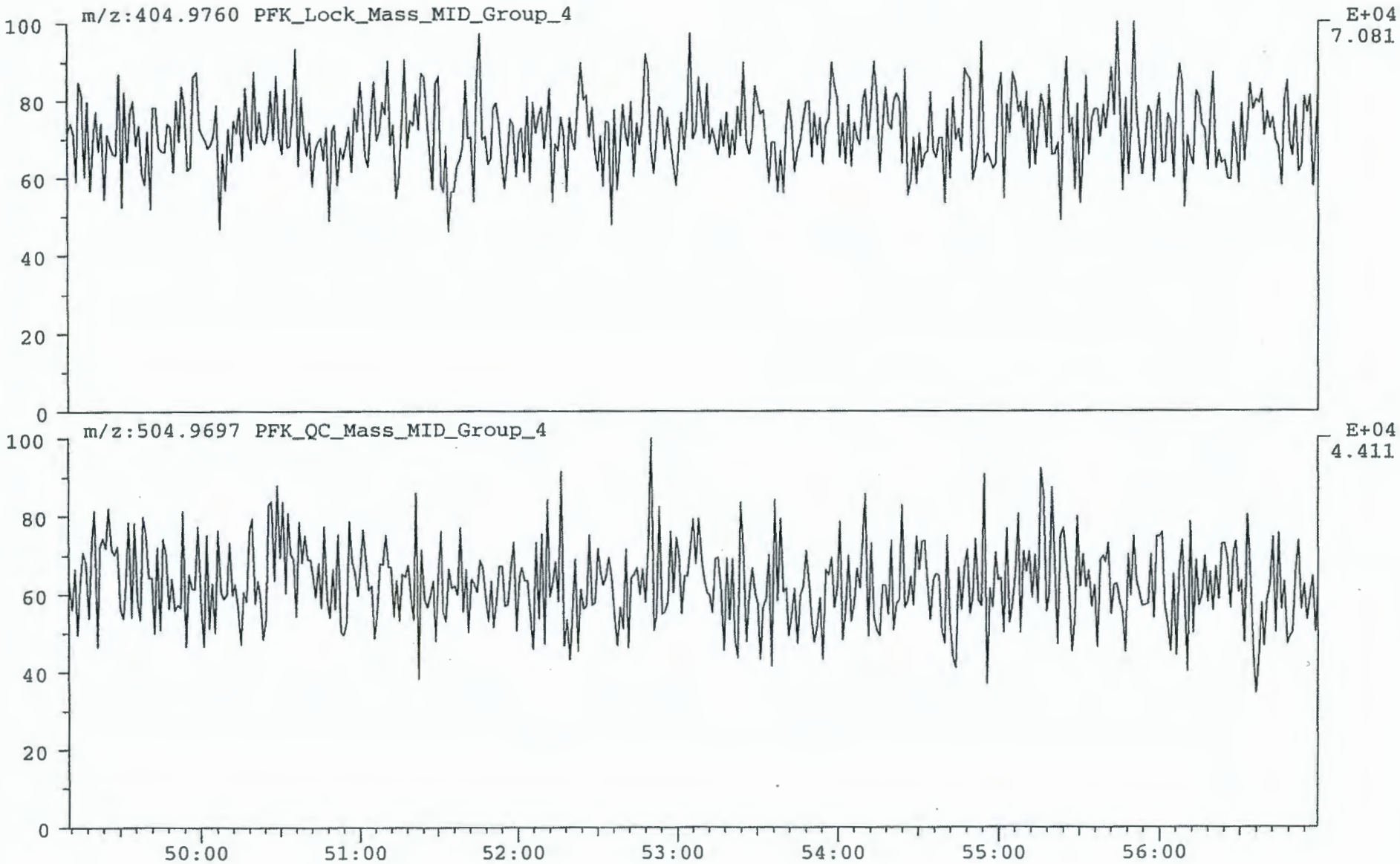


CHRO: apj8alac 12-Oct-07 Elapse: 56:12 2555
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 1422 > 2153 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



3112

CHRO: apj8alac 12-Oct-07 Elapse: 56:12 2555
Samp: Vial 11 WO=j8ala1ac Meth=IE5 Dil=1 Start : 12:06:30 2601
Comm: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 7278087 (10.0g)
Oper: DCG Client: H7J050000-087C Inlet : GC Vial 11
Peak: 100.00 ppm Label wndw: 2156 > 2599 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: apj8alac
Study: 7278087 (10.0g)
Sample: WO=j8alalac Meth=IE5 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: H7J050000-087C
Comments: Inst=m1d/35055-03a Batch=20071012s1 Ccal=20070313i
Injected volume: 2.00
Sample from Vial 11
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 2 of list 071011
ICL procedure: sleep7x
MID procedure: epa1668

MID Remarks: EPA 1668 - 209 PCBs- 2m/z's - 6/29/05

Mid Set Up Parameter:

Measure/lock ratio	1
Damping Relay	FALSE
Width first lock	0.10 amu
Electric jump time	10 ms
Magnetic jump time	60 ms
Offset	75 cts
Electric range	300 %
Sweep peak width	3.00
MID mode	Lock mode
Acq mode	Cent mode

Mid Time Windows:

	Start	Measure	End	Cycletime
# 1	11:00 min	11:00 min	22:00 min	1.00 sec
# 2	22:00 min	14:05 min	36:05 min	1.00 sec
# 3	36:05 min	13:00 min	49:05 min	1.00 sec
# 4	49:05 min	7:55 min	57:00 min	1.00 sec

Mid Masses:
Window # 1

mass	F	int	gr	time (ms)
180.9888	l	10	1	4.10
188.0393		1	1	47.79
190.0363		1	1	47.79
200.0795		1	1	47.79
202.0766		1	1	47.79
222.0003		1	1	47.79
223.9974		1	1	47.79
234.0406		1	1	47.79
236.0376		1	1	47.79
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
269.9986		1	1	47.79
280.9824	c	10	1	4.10
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79

Window # 2

mass	F	int	gr	time (ms)
255.9613		1	1	47.79
257.9584		1	1	47.79
268.0016		1	1	47.79
268.9824	l	10	1	4.10
269.9986		1	1	47.79
289.9224		1	1	47.79
291.9194		1	1	47.79
301.9626		1	1	47.79
303.9597		1	1	47.79
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
380.9760	c	10	1	4.10

Window # 3

mass	F	int	gr	time (ms)
325.8804		1	1	47.79
327.8775		1	1	47.79
337.9207		1	1	47.79
339.9178		1	1	47.79
342.9792	l	10	1	4.10
359.8415		1	1	47.79
361.8385		1	1	47.79
371.8817		1	1	47.79
373.8788		1	1	47.79
393.8025		1	1	47.79
395.7995		1	1	47.79
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
430.9728	c	10	1	4.10
439.8038		1	1	47.79
441.8008		1	1	47.79

Window # 4

mass	F	int	gr	time (ms)
393.8025		1	1	47.79
395.7995		1	1	47.79
404.9760	l	10	1	4.10
405.8428		1	1	47.79
407.8398		1	1	47.79
427.7635		1	1	47.79
429.7606		1	1	47.79
439.8038		1	1	47.79
441.8008		1	1	47.79
461.7246		1	1	47.79
463.7216		1	1	47.79
473.7648		1	1	47.79
475.7619		1	1	47.79
495.6856		1	1	47.79
497.6826		1	1	47.79
504.9697	c	10	1	4.10
507.7258		1	1	47.79
509.7229		1	1	47.79

Auto Sampler descriptor: 2ul
Normal Injection
Injector A
Slvnt A cln before inj (K): 3 times
Slvnt B cln before inj (L): 0 times

Sample rinse cycles	(R):	0	times
Syringe filling volume	(F):	1.0	ul
Pullup delay time	(D):	4	sec
Sample pullup count	(P):	2	times
Sample pullup speed	(E):	5.0	ul/sec
Slvnt aftr pre inj cln	(U):	0.0	ul
Air after pre inj cln	(G):	2.0	ul
Sample volume	(V):	2.0	ul
Sample air volume	(A):	2.0	ul
Injection speed	(S):	10.0	ul/sec
Pre Inj. wait time	(W):	10	sec
Post Inj. hold time	(H):	3	sec
Solvent A clean cycles	(C):	15	times
Solvent B clean cycles	(B):	0	times
Loop clean w slvnt A	(LC):	0	times
Loop clean w slvnt B	(LB):	0	times
Standard sample volume	(X):	0.0	ul
Standard air volume	(Y):	0.0	ul
2nd Injection volume	(I):	0.0	ul
Air volume of 2nd inj	(J):	0.0	ul
Time btwn 2 injections	(T):	0	sec

GC descriptor : epa1668

Injector:	270 deg		270 deg max
Transfer Line:	280 deg		280 deg max
Column:	75 deg at	0.0 minutes	280 deg max
	75 deg at	2.0 minutes	
	150 deg at	7.0 minutes	
	270 deg at	55.0 minutes	
	270 deg at	57.0 minutes	

Inlet : Splitless mode

Purge time	1.5 min
Purge flow	40.0 ml/min

Gas saver is on

Saver time	3.0 min
Saver flow	15.0 ml/min

Column : Constant Flow 1.0 ml

Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1034.0919
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.8824
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-58.0000
DRAWC	1.0000	DRAWS	-0.0050	ECORR	0.9984
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0001
EDACR	23.0000	EDACZ	-474.0000	ELEN	70.7500
EMULT	1.8800	ENS	215.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	145.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	321.0000
FVINLET	282.0000	FVSRC	960.0000	FWIN	0.7000
GCTC	200.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.3922	HVANAL	1294.0000
HVSRC	2701.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4793.6460	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1637.0000	LENSS	83.6000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2343625.4487

MDACR	23.0000	MRANGE	1034.0919	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	200.0000
NSCAN	2612.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-31.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10099.9637	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2312.0000
SHIELDS	0.4000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.0200	TCURR	0.9375
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	1.6400	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.9888	XLENS	2500.0000
XLENSS	25.0000	YLENS	2047.0000	YLENSS	-70.4000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 12-Oct-07 12:06:30.1

Autosampler has injected sample from vial 11
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 9608
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 9642
Analysis stopped at: 12-Oct-07 13:03:33.1 (run time 57.03 minutes)
Analysis stopped because MID run finished

Miscellaneous Data

TA Knoxville Specialty Organics Group GC/MS Data Review / Narrative Checklist LOT # H7I280209

SOP Number: KNOX-ID-0013 Revision 5

Batch Number:	7278087

Review Items **A. Initial Calibration**	N/A	Yes	No	Why is data reportable?	2nd Level
1. Was the correct ICAL used for quantitation? (Check 1-2 compounds for batch by manually calculating concentration using the ICAL avg. RF.)		✓			✓
B. Continuing Calibration			✓		✓
1. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
C. Client Sample AND QC Sample Results		✓			✓
1. Were all special project requirements met?		✓			✓
2. Were the header information, prep factors, and dilution factors verified?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Sample analyses done within preparation and analytical holding time (HT)? *If no, list samples:* _____		✓		☐ HT expired upon receipt. ☐* Client requested analysis after HT expired. ☐ Re-extraction done after HT expired. ☐ See Comment no. _____.	✓
5. Are internal standards within QC limits? *If no, list samples and reason (e.g.,* **sur1***):* Sample / Reason / Sample / Reason See Narrative			✓	☐* **[sup]** Ion suppression due to matrix. ☐* **[low]** Low recovery. S/N >10 and EDL<ML. ☑ **[sam]** Not enough sample to re-extract. ☐ **[dil]** Dilution showed acceptable %R. ☐ **[mtx]** Obvious matrix interference. Further cleanup not possible. ☐* **[unk]** At client's request, data was flagged as estimated and released without further investigation. ☐ **[com]** See Comment no. _____.	✓
6. Were the following qualitative criteria met for all reported analytes: • All analytes within Method/SOP retention time criteria and both ions maximized within ±2 seconds. • The ion abundance ratios for all labeled and unlabeled analytes within the specified control limits. • All peaks ≥2.5 S/N		✓			✓
7. Were peaks ≥2.5 S/N, which did not meet the above criteria, properly calculated and reported as EMPCs?		✓			✓
8. Are positive results within calibration range? *If no, list samples:* _____		✓		☐ Sample extracted at lowest possible volume	✓
11. If manual integrations were performed, are they clearly identified, initialed and dated?		✓			✓
12. Final report acceptable? (Results correct, DLs calculated correctly, units correct, IS %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓
13. Was a narrative prepared and all deviations noted?		✓			✓

TA Knoxville Specialty Organics Group GC/MS Data Review / Narrative Checklist LOT #H7I280209
SOP Number: KNOX-ID-0013 Revision 5

D. Preparation/Matrix QC	N/A	Yes	No	Why is data reportable?	2nd Level
1. LCS done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID:* _____		✓	✓	☐ MS/MSD %R and all sample surrogate %R good indicating that problem was confined to the LCS. ☐* Reanalysis not possible-insufficient sample. ☐ LCS %R high and affected analyte(s) were <ML in associated samples. ☐ See Comment no._____.	✓
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
3. Method blank internal standard recoveries within QC limits? *If no, list blank ID:* _____		✓	✓	☐* Internal standards are high and blank demonstrates that analysis is free of contaminants. ☐* Sample internal standards OK and there is no analytes >ML in samples associated with blank.	✓
4. Are all analytes present in the method blank ≤ EML? *If no, list blank ID:* _____		✓	✓	☐ Sample results are > 20x higher than blank. ☐* There is no analyte > RL in the samples associated with method blank. ☐* Reanalysis not possible-insufficient sample	✓
4. MS/MSD done per batch and are all recoveries and RPDs within laboratory generated QC limits? *If no, list MS/MSD ID:* _____	✓			☐ LCS showed acceptable results indicating sample matrix effects. ☐ LCS showed acceptable results. High native analyte concentration relative to spike level. ☐ LCS showed acceptable results. RPD out due to lack of sample homogeneity. ☐ See Comment no. _____.	✓
E. Other					
1. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓

Analyst: DMN	Date: 10/16/07	Analyst: TCS	Date: 10/16/07
Comments:		**Comments:**	
(1) See Ana. Attached Sheet for Samples w/ IS recovery issues.			

STL Knoxville **Specialty Organics Prep Batch Review/Checklist** **Batch # 7278087**

☐ KNOX-ID-0004, rev. 7 (PCDD/F extraction) ☐ KNOX-ID-0012, rev. 1 (Air Train extraction) ☒ KNOX-ID-0013, rev. 5 (PCB extraction) ☐ KNOX-ID-0016, rev. 5 (LR-SIM PAH extraction)

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Does the batch contain no more than 20 field samples? (Excluding MB, LCS, LCSD, MS, & MSD)		✓			✓
2. Were the samples extracted by the proper method?		✓			✓
3. Were the samples extracted within the required holding times?		✓			✓
4. For waters by 1613B, if visible solids were present, were solids determined to be ≤ 1%?	✓				✓
5. Were all project specific requirements met as noted on the Lot Checklists and Sample Worksheets?		✓			✓
6. Were all required QC samples prepared & extracted with the batch at method required frequency?		✓			✓
7. Were MS Run# properly assigned and samples entered on QC tracking Sheet?	✓				✓
8. Were samples requested properly and request form completed, signed, and dated?		✓			✓
9. Were the correct weights and volumes entered in Quantims for all samples?		✓			✓
10. Were the internal standards properly spiked and the spikes verified? Were the spike solution ID and spike volumes entered correctly and verified?		✓			✓
11. Were alternate standards properly spiked and the spikes verified? Were the spike solution ID and spike volumes entered correctly and verified?	✓				✓
12. Were all cleanup steps properly documented by initials and date?		✓			✓
13. Was the final volume checked and verified against the supplemental benchsheet and Quantims?		✓			✓
14. Are the final extracts free of water, precipitates, multiple phases, and color?		✓			✓
15. Were all appropriate notes and observations recorded on the prep benchsheet and in Quantims?		✓			✓
16. Were all Quantims batch information completed including; • Batch reviewed • Correct volumes entered • Correct completion date entered • Samples released		✓			✓
17. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including; • Prep Benchsheet • Supplemental Benchsheet • Standard concentration forms or copies of logbook pages, for all IS, RS, SS, CS, Native and Alternate standards. • Lot Checklists for all lots in the batch • Sample worksheets for all samples in the batch in proper order as recorded on tracking sheet		✓			✓
18. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓

Analyst: ALJ	**Date:** 10/10/07	**2nd Level Reviewer :** SA	**Date:** 10-10-07
Comments:		**Comments:**	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/10/07
Time: 15:57:27

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
—	—	MS/MSD	—	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			—	—	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 004403 Cornelia Apahidean

Concentrationist: 400856 Alan Sudderth

Reviewer/Date: SUDDERTA / 10/10/07

QC BATCH: 7278087

PREP DATE: 10/05/07 16:00
COMP DATE: 10/10/07 18:00

PCBs, HRGC/HRMS (1668A)
SOXHLET (NOMINAL)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
9/19/08	10/08/07	H7I280209-001 J7V9M-1-AA	DR	4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:		12													
9/19/08	10/08/07	H7I280209-001 J7V9M-1-ADX	DR	4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:		13													
9/20/08	10/08/07	H7I280209-002 J7V9Q-1-AA	DR	4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:		14													
9/19/08	10/08/07	H7I280209-003 J7V9T-1-AA	DR	4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:		15													
9/20/08	10/08/07	H7I280209-004 J7V9W-1-AA	DR	4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:		16													
9/20/08	10/08/07	H7I280209-005 J7V90-1-AA	DR	4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:		17													
9/20/08	10/08/07	H7I280209-006 J7V91-1-AA	DR	4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:		18													

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 10/10/07
Time: 15:57:27

QC BATCH: 7278087

PREP DATE: 10/05/07 16:00
COMP DATE: 10/10/07 18:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJI	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
9/20/08	10/08/07	H7I280209-007 J7V93-1-AA 19	DR	4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:															
9/19/08	0/00/00	H7J050000-087 J8ALA-1-AAB 10		4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3607:04 1.0 ML PCB 13C
COMMENTS:															
9/19/08	0/00/00	H7J050000-087 J8ALA-1-ACC 11		4W	IE	BIOLOGIC	10.0g 100.00uL	NA	NA	NA	ACE/HEX	350.0	HEXANE	10.0	3261:99 1.0ML PCB NAT. 3607:04 1.0 ML PCB 13C
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 10

3123

STL Knoxville

Specialty Organics Group - PCB Sample Tracking Sheet - GC/MS Analysis Group

QC Batch No: 7278087 Relinquished to GC/MS By: ALS Date: 10/10/07

Received in GC/MS By: PNP Date: 10-10-07

Work Order #		Column: SPB-Octyl				Column: SPB-Octyl				Column: SPB-Octyl			
		Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code
J7V9T 1AA		10/11/07	MAT95	DCS	DR	10/12/07	MAT95	DCS	OK				
J7V9M 1AA					DR	10/12/07	MAT95	DCS	OK				
J7V9M 1AD	X				DR	10/12/07	MAT95	DCS	OK				
J7V9W 1AA					DR	10/12/07	MAT95	DCS	OK				
J7V90 1AA					DR	10/12/07	MAT95	DCS	DR	10/15/07	MAT95	DCS	OK
J7V91 1AA					DR	10/15/07	MAT95	DCS	OK		~~MAT95~~ DS 10/22/07		O
J7V93 1AA					DR		MAT95	DCS	OK				
J7V9Q 1AA					DR	10/12/07	MAT95	DCS	OK				
J8ALA 1AA	B				DR	10/12/07	MAT95	DCS	OK				
J8ALA 1AC	C				DR	10/12/07	MAT95	DCS	OK				

Comments:

3124

STL Knoxville - Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 7278087 **Internal Std. Spiked By:** CA **Verified By:** MFH **Date:** 10/5/07

Sodium Sulfate Lot: _____ **Native LCS/D Spiked By:** CA **Verified By:** MFH **Date:** 10/5/07

(only for Waters) **Native MS/D Spiked By:** N/A **Verified By:** N/A **Date:** N/A

Work Order Number		Filtered Y/N?	Vol of Sampling Surrogate (uL)	Soxhlet Started (Date/Time)	Soxhlet Finished (Date/Time	Blow Down (Initial/Date)	Recovery Standard (Book:Page)	Recovery Std Vol (uL)	Vol Delivered (uL)	Comments
J7V9M1AA				10/5/07 16:30	10/6/07 08:30	AW 10/10/07	3607:09	100 µl	100 µl	
J7V9M1AD	X									
J7V9Q1AA										
J7V9T1AA										
J7V9W1AA										
J7V901AA										
J7V911AA										
J7V931AA										
J8ALA1AA	B									
J8ALA1AC	C									

Comments: _____

Volume of Alt Standard: N/A

Split Ratios: Post I.S. _____ Post F.C. _____ Post C.S. _____ Post R.S. _____

Blk Matrix: GP THIMBLE + SODIUM SULFATE + ICE W.B. Temp N/A

Extraction Solvent: ACETONE / Hexane **Lot #:** E10E20 / E15E17

ID0034R3 06/13/2006

3125

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 7278087 **Cleanup Std. Spiked By:** ALS **Verified By:** CA Date: 10/8/07

Lot #s

Deact. Silica: 3569-95

Acid Silica 3569-102

Alumina: ——

Sodium Sulfate: 3624-1F 3624-1A

Work Order Number		Cleanup Spike (Book:Page)	Cleanup Spike Volume (uL)	SilicaGel ~~Alumina~~ Col (Initial/Date)	Acid/~~Base~~ Wash (Initial/Date)	Carbon Column (Initial/Date)	Florisil Column (Initial/Date)	Mercury Cleanup (Initial/Date)	TBA Cleanup (Initial/Date)	Other Cleanup (Initial/Date)	Comments
J7V9M1AA		3607:07	1000	AW 10/9/07	AW/SA 10/8/07		SA 10/9/07				
J7V9M1AD	X										
J7V9Q1AA											
J7V9T1AA											
J7V9W1AA											
J7V901AA											
J7V911AA											
J7V931AA											
J8ALA1AA	B										
J8ALA1AC	C										

STL Knoxville
HR PCBs Solution Concentrations

PCB congener	IUPAC[1]	Spike Solution ID: (Book: pg. No.) Concentration
All 209 Native PCB Congeners	**All**	N/A 1.0 ng/mL 3261:99 5.0 ng/mL
Labeled Internal Standards	**IUPAC**	**Spike Solution ID: (Book: pg. No.) Concentration**
$^{13}C_{12}$-2-chlorobiphenyl	1L	N/A 2.0 ng/mL 3607:04 10.0 ng/mL
$^{13}C_{12}$-4-chlorobiphenyl	3L	
$^{13}C_{12}$-2,2'-dichlorobiphenyl	4L	
$^{13}C_{12}$-4,4'-dichlorobiphenyl	15L	
$^{13}C_{12}$-2,2',6-trichlorobiphenyl	19L	
$^{13}C_{12}$-3,4,4'-trichlorobiphenyl	37L	
$^{13}C_{12}$-2,2',6,6'-tetrachlorobiphenyl	54L	
$^{13}C_{12}$-3,3',4,4'-tetrachlorobiphenyl	77L	
$^{13}C_{12}$-3,4,4',5-tetrachlorobiphenyl	81L	
$^{13}C_{12}$-2,2',4,6,6'-pentachlorobiphenyl	104L	
$^{13}C_{12}$-2,3,3',4,4'-pentachlorobiphenyl	105L	
$^{13}C_{12}$2,3,4,4',5-pentachlorobiphenyl -	114L	
$^{13}C_{12}$-2,3',4,4',5-pentachlorobiphenyl	118L	
$^{13}C_{12}$-2',3,4,4',5-pentachlorobiphenyl	123L	
$^{13}C_{12}$-3,3',4,4',5-pentachlorobiphenyl	126L	
$^{13}C_{12}$-2,2',4,4',6,6'-hexachlorobiphenyl	155L	
$^{13}C_{12}$-2,3,3',4,4',5-hexachlorobiphenyl	156L	
$^{13}C_{12}$-2,3,3',4,4',5'-hexachlorobiphenyl	157L	
$^{13}C_{12}$-2,3',4,4',5,5'-hexachlorobiphenyl	167L	
$^{13}C_{12}$-3,3',4,4',5,5'-hexachlorobiphenyl	169L	
$^{13}C_{12}$-2,2',3,3',4,4',5-heptachlorobiphenyl	170L	
$^{13}C_{12}$-2,2',3,4',5,6,6'-heptachlorobiphenyl	188L	
$^{13}C_{12}$-2,3,3',4,4',5,5'-heptachlorobiphenyl	189L	
$^{13}C_{12}$-2,2',3,3',5,5',6,6'-octachlorobiphenyl	202L	
$^{13}C_{12}$-2,3,3',4,4',5,5',6-octachlorobiphenyl	205L	
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6-nonachlorobiphenyl	206L	
$^{13}C_{12}$-2,2',3,3',4,5,5',6,6'-nonachlorobiphenyl	208L	
$^{13}C_{12}$-2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl	209L	
Labeled Recovery Standards	**IUPAC**	**Spike Solution ID: (Book: pg. No.) Concentration**
$^{13}C_{12}$-2,5-dichlorobiphenyl	9L	3607:09 100 ng/mL
$^{13}C_{12}$-2,4',5-trichlorobiphenyl	31L	
$^{13}C_{12}$-2,4',6-trichlorobiphenyl	32L	
$^{13}C_{12}$-2,2',5,5'-tetrachlorobiphenyl	52L	
$^{13}C_{12}$-2,2',4,5,5'-pentachlorobiphenyl	101L	
$^{13}C_{12}$-3,3',4,5,5'-pentachlorobiphenyl	127L	
$^{13}C_{12}$-2,2',3,4,4',5'-hexachlorobiphenyl	138L	
$^{13}C_{12}$-2,2',3,4,4',5,5'-heptachlorobiphenyl	180L	
$^{13}C_{12}$-2,2',3,3',4,4',5,5'-octachlorobiphenyl	194L	
Cleanup Standards		**Spike Solution ID: (Book: pg. No.) Concentration**
$^{13}C_{12}$-2,4,4'-trichlorobiphenyl	28L	N/A 2.0 ng/ml 3607:07 10.0 ng/mL
$^{13}C_{12}$-2,3,3',5,5'-pentachlorobiphenyl	111L	
$^{13}C_{12}$-2,2',3,3',5,5',6-heptachlorobiphenyl	178L	
Labeled Surrogate Standards		**Spike Solution ID: (Book: pg. No.) Concentration**
$^{13}C_{12}$-2,4'-dichlorobiphenyl	8L	N/A 50.0 ng/mL
$^{13}C_{12}$-3,3',4,5'-tetrachlorobiphenyl	79L	
$^{13}C_{12}$-2,2',3,5',6-pentachlorobiphenyl	95L	
$^{13}C_{12}$-2,2',4,4',5,5'-hexachlorobiphenyl	153L	

Footnote 1: Suffix "L" indicates labeled compound.

Sample Receipt Documentation

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-083-221	Page 1 of 1
Collector: B.Tiller JAMES BERNHARD (JEB)	Company Contact: JOAN KESSNER; Telephone No.: 375-4688	Project Coordinator: KESSNER, JH	Price Code: 9C; Data Turnaround: 15 Days
Project Designation: RCBRA-Inter-Areas Shoreline Assessment - Tissues	Sampling Location: RCBRA 3b Aq., FISH ~~offal~~ whole org 9-11-07 jm	SAF No.: RC-083	
Ice Chest No.: SML-495	Field Logbook No.: EL-1614; COA: BESBEA6520	Method of Shipment: FED EX	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Knoxville, TN 9-27-07	Offsite Property No.: A07046	Bill of Lading/Air Bill No.: SEE OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation			Cool-4C	Cool-4C								
Type of Container			aG	aG								
No. of Container(s)			1	1								
Volume			20g	10g								
SAMPLE ANALYSIS			1668 PCB CONGENER (TCL)	Total Inorganic Arsenic JEB 9-27-07								
Sample No.	Matrix *	Sample Date	Sample Time									
J15J21	OTHER SOLID	9-20-07	1445	X	X							

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: JAMES BERNHARD	1500 9-20-07	EAS LOCKED ~~STORAGE~~	1500 9-20-07
Relinquished By/Removed From: EAS LOCKED ~~STORAGE~~	0900 9-27-07	KM Singleton 9-27-07	0900
Relinquished By/Removed From: KM Singleton 9-27-07	WCH 1500	Received By/Stored In: FEDEX	
Relinquished By/Removed From		Received By/Stored In: Thomas D Crouch	9-28-07 10:30
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

CUSTODY SEALS INTACT
RECEIVED AT 1°C
SKD 9-28-07
1 COOLER FEDX#
7917 7198 1714

Matrix *: S=Soil; SE=Sediment; SO=Solid; Sl=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; Wi=Wipe; L=Liquid; V=Vegetation; X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

3129

HTI 280209

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-097-15	Page 1 of 1

Collector B.TILLER JAMES BERNHARD (SEB)	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH
Price Code 9C	Data Turnaround 15 Days		
Project Designation 100 & 300 Area Component of the RCBRA Tissues - Resam	Sampling Location RCBRA 100-B/C Aq. FISH ~~OFFAL~~ whole		SAF No. RC-097
Ice Chest No. SML-495	Field Logbook No. EL-1614-1	COA BESRAS6520	Method of Shipment FEDEX
Shipped To TestAmerica Incorporated, Richland Knoxville, TN	Offsite Property No. A070461		Bill of Lading/Air Bill No. 5c 0SPC

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

COOL 4C, "MATRIX COMPOSED OF FISH"

Preservation	Cool-4C	Cool-4C										
Type of Container	aG	P/G										
No. of Container(s)	1	1										
Volume	20mL	10mL										
SAMPLE ANALYSIS	1668 PCB CONGENER (TCL)	Total Inorganic Arsenic JRD 9-27-07										
Sample No.	Matrix *	Sample Date	Sample Time									
J15J92	OTHER SOLID	9-21-07	1315	X	X							

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From JAMES BERNHARD	Date/Time 1320 9-21-07	Received By/Stored In EAS LOCKED STORAGE	Date/Time 1320 9-21-07
Relinquished By/Removed From EAS LOCKED STORAGE	Date/Time 0900 9-27-07	Received By/Stored In KMSingleton	Date/Time 0900 9-27-07
Relinquished By/Removed From KMSingleton	Date/Time WCH 9-27-07 1500	Received By/Stored In FEDEX	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time 9-28-07 10:30
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

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H7I280209

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-097-14	Page 1 of 1

Collector B.TILLER JAMES BERNHARD (548)	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH
Price Code 9C	Data Turnaround 15 Days		
Project Designation 100 & 300 Area Component of the RCBRA Tissues - Resam	Sampling Location RCBRA Ver Ref site 14 Aq, FISH ~~OFFAL~~ whole org 112 9.120		SAF No. RC-097
Ice Chest No. SML-495	Field Logbook No. EL-1614-1	COA BESRAS6520	Method of Shipment FED EX
Shipped To TestAmerica Incorporated, Richland Knoxville, TN 9-27-07	Offsite Property No. A070461		Bill of Lading/Air Bill No. See OSR

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

COOL 4C, "MATRIX COMPOSED OF FISH"

Preservation				Cool-4C	Cool-4C							
Type of Container				aG	P/G							
No. of Container(s)				1	1							
Volume				20mL 9-20-07	10mL 9-20-07							
SAMPLE ANALYSIS				1668 PCB CONGENER (TCL)	Total Inorganic Arsenic 10-12-07							
Sample No.	Matrix *	Sample Date	Sample Time									
J15J91	OTHER SOLID	9-20-07	1030	X	X							

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From JAMES BERNHARD	1035 9-20-07	Received By/Stored In FAS LOCKED STORAGE	1035 9-20-07
Relinquished By/Removed From FAS LOCKED STORAGE	0900 9-27-07	Received By/Stored In KMSingleton	WCH 9-27-07 0900
Relinquished By/Removed From KMSingleton	WCH 9-27-07 1500	Received By/Stored In FED EX	
Relinquished By/Removed From		Received By/Stored In Bryan Dawson	9-28-07 10:30
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

Matrix *
S=Soil
SE=Sediment
SO=Solid
SL=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-097-13	Page 1 of 1

Collector B.TILLER JAMES BERNHARD (550)	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9C	Data Turnaround 15 Days
Project Designation 100 & 300 Area Component of the RCBRA Tissues - Resam	Sampling Location RCBRA Cr 7 to Cr 10 Aq. FISH ~~OFFAL~~ whole org		SAF No. RC-097		
Ice Chest No. SML-495	Field Logbook No. EL-1614-1	COA BESRAS6520	Method of Shipment FED EX		
Shipped To TestAmerica Incorporated ~~Richland~~ Knoxville, TN	Offsite Property No. A070461		Bill of Lading/Air Bill No. See OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

COOL 4C, "MATRIX COMPOSED OF FISH"

Preservation	Cool-4C	Cool-4C
Type of Container	aG	P/G
No. of Container(s)	1	1
Volume	20mL	10mL
SAMPLE ANALYSIS	1668 PCB CONGENER (TCL)	Total Inoganic Arsenic 10-12-07

Sample No.	Matrix *	Sample Date	Sample Time		
J15J90	OTHER SOLID	9-21-07	1500	X	X

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From JAMES BERNHARD	1505 9-21-07	Received By/Stored In EAS LOCKED STORAGE	1505 9-21-07
Relinquished By/Removed From EAS LOCKED STORAGE	0900 9-27-07	Received By/Stored In KMSingleton	0900 9-27-07
Relinquished By/Removed From KMSingleton	WCH 9-27-07 1500	Received By/Stored In FED EX	
Relinquished By/Removed From		Received By/Stored In	9-28-07 10:30
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
Ve=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-097-12	Page 1 of 1

Collector B.TILLER JAMES BERNHARD (JAB)	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9C	Data Turnaround 15 Days
Project Designation 100 & 300 Area Component of the RCBRA Tissues - Resam	Sampling Location RCBRA Cr 5 to Cr 6 Aq, FISH ~~OFFAL~~ whole org 9/27/07 JAB		SAF No. RC-097		
Ice Chest No. SML-495	Field Logbook No. EL-1614-1	COA BESRAS6520	Method of Shipment FED EX		
Shipped To TestAmerica Incorporated, ~~Richland~~ Knoxville, TN 9-27-07	Offsite Property No. A070461		Bill of Lading/Air Bill No. See OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

COOL 4C, "MATRIX COMPOSED OF FISH"

Preservation			Cool-4C	Cool-4C							
Type of Container			aG	P/G							
No. of Container(s)			1	1							
Volume			20mL	10mL							
SAMPLE ANALYSIS			1668 PCB CONGENER (TCL)	Total Inorganic Arsenic JAB 9-27-07							
Sample No.	Matrix *	Sample Date	Sample Time								
J15J89	OTHER SOLID	9-21-07	1410	X	X						

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From JAMES BERNHARD	1415 9-21-07	Received By/Stored In EAS LOCKED STORAGE	1415 9-21-07
Relinquished By/Removed From EAS LOCKED STORAGE	0900 9-27-07	Received By/Stored In KMSingleton	0900 9-27-07
Relinquished By/Removed From KMSingleton	WCH 9-27-07 1500	Received By/Stored In FEDEX	
Relinquished By/Removed From		Received By/Stored In Dwayne Vennum	9-28-07 10:30
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-097-11	Page 1 of 1

Collector B.TILLER JAMES BERNHARD (SCB)	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9C	Data Turnaround 15 Days
Project Designation 100 & 300 Area Component of the RCBRA Tissues - Resam	Sampling Location RCBRA Cr 1 to Cr 2 Aq. FISH ~~OFFAL~~ whole org. 9-12-07 jm2		SAF No. RC-097		
Ice Chest No. SMC-495	Field Logbook No. EL-1614-1	COA BESRAS6520	Method of Shipment FED EX		
Shipped To TestAmerica Incorporated, ~~Richland~~ Knoxville, TN 9-27-07	Offsite Property No. A070461		Bill of Lading/Air Bill No. See OSPC		

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

COOL 4C, "MATRIX COMPOSED OF FISH"

Preservation			Cool-4C	Cool-4C								
Type of Container			aG	P/G								
No. of Container(s)			1	1								
Volume			20mL	10mL								
SAMPLE ANALYSIS			1668 PCB CONGENER (TCL)	Total Inorganic Arsenic 9-27-07 SCB								
Sample No.	Matrix *	Sample Date	Sample Time									
J15J88	OTHER SOLID	9-21-07	~~1315~~ 1253 9-24-07	X	X							

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From JAMES BERNHARD	~~1320~~ 1300 9-21-07	Received By/Stored In FAS LOCKED STORAGE	~~1320~~ 1300 9-21-07
Relinquished By/Removed From FAS LOCKED STORAGE	0900 9-27-07	Received By/Stored In KMSingleton 9-27-07	0900
Relinquished By/Removed From KMSingleton 9-27-07	WCH 1500	Received By/Stored In FED EX	
Relinquished By/Removed From		Received By/Stored In Dwyer Vanlaan 9-28-07	10:30
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

Matrix *

S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

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H7I281209

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-083-220	Page 1 of 1

Collector B.Tiller JAMES BERNHARD (545)	Company Contact JOAN KESSNER	Telephone No. 375-4688	Project Coordinator KESSNER, JH	Price Code 9C	Data Turnaround 15 Days
Project Designation RCBRA-Inter-Areas Shoreline Assessment - Tissues	Sampling Location RCBRA 2j Aq., FISH ~~offal~~ whole c.g.		SAF No. RC-083	
Ice Chest No. SML-495	Field Logbook No. EL-1614	COA BESBEA6520	Method of Shipment FED EX	
Shipped To TestAmerica Incorporated, ~~Richland~~ Knoxville, TN 9-27-07	Offsite Property No. A070461		Bill of Lading/Air Bill No. SEE OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

Special Handling and/or Storage

COOL 4C "MATRIX COMPOSED OF FISH"

Preservation	Cool-4C	Cool-4C									
Type of Container	aG	aG									
No. of Container(s)	1	1									
Volume	20g	10g									
SAMPLE ANALYSIS	1668 PCB CONGENER (TCL)	Total Inorganic Arsenic JCB 9-27-07									
Sample No.	Matrix *	Sample Date	Sample Time								
J15J20	OTHER SOLID	9-21-07	1200	X	X						

CHAIN OF POSSESSION	Sign/Print Names	SPECIAL INSTRUCTIONS
Relinquished By/Removed From: JAMES BERNHARD, Date/Time 1205 9-21-07	Received By/Stored In: EAS LOCKED STORAGE, Date/Time 1205 9-21-07	
Relinquished By/Removed From: EAS LOCKED STORAGE, Date/Time 0900 9-27-07	Received By/Stored In: KM Singleton, Date/Time 9-27-07 0900	
Relinquished By/Removed From: KM Singleton, Date/Time 9-27-07 1500	Received By/Stored In: FED EX, Date/Time	
Relinquished By/Removed From, Date/Time	Received By/Stored In: Denise Jackson, Date/Time 9-28-07 10:30	
Relinquished By/Removed From, Date/Time	Received By/Stored In, Date/Time	
Relinquished By/Removed From, Date/Time	Received By/Stored In, Date/Time	

Matrix *
S=Soil
SE=Sediment
SO=Solid
SL=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

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STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: WASHINGTON CLOSURE HANFORD **Project:** _____ **Lot Number:** H7I260209

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ 1a Do not match COC ☐ 1b Incomplete information ☐ 1c Marking smeared ☐ 1d Label torn ☐ 1e No label ☐ 1f COC not received ☐ 1g Other:	
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ 2a Temp Blank = _____ ☐ 2b Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ 3a Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ 4a Not present ☐ 4b Not intact ☐ 4c Other:	
5. Were all of the samples listed on the COC received?	✓			☐ 5a Samples received-not on COC ☐ 5b Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ 6a Leaking ☐ 6b Broken	
7. Were VOA samples received without headspace?			✓	☐ 7a Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ 8a Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ 9a Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ 10a Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ 13a Leaking ☐ 13b Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ 14a Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ 15a Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ 15a Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ 15a Incomplete information	
18. Is the client and project name/# identified?	✓			☐ 15a Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: [signature] Date: 9-28-17

QA026R18.doc, 1/30/06

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