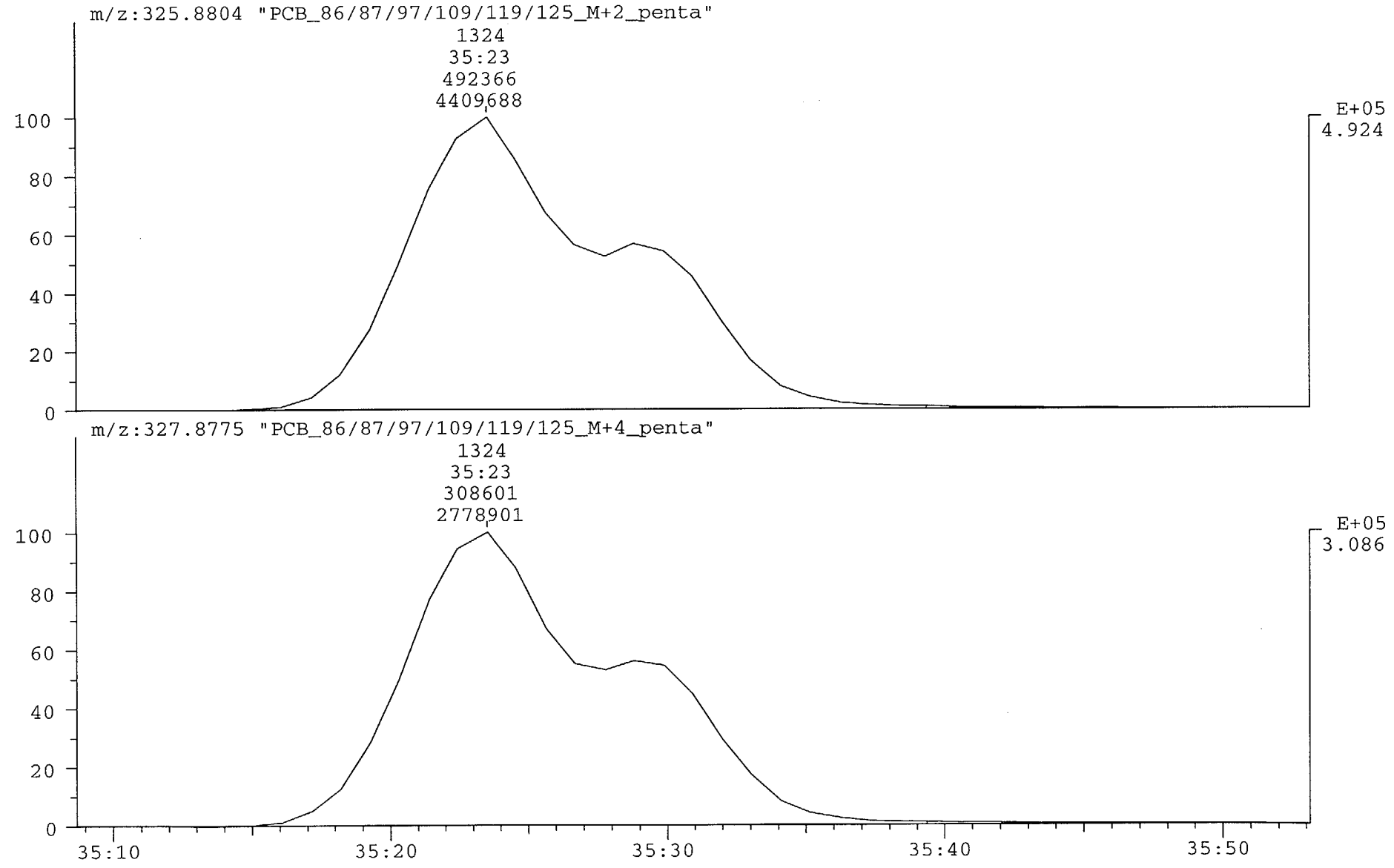
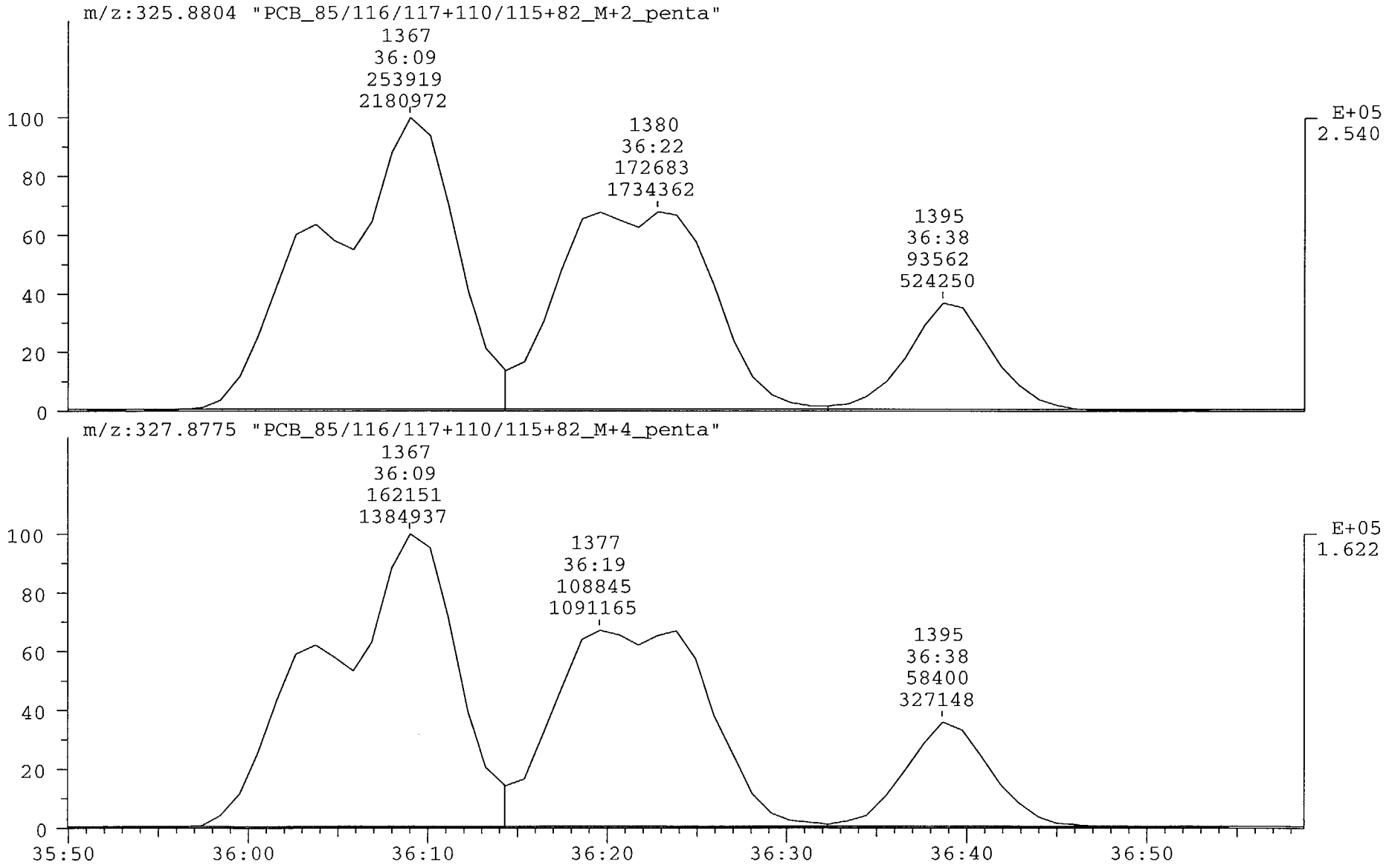
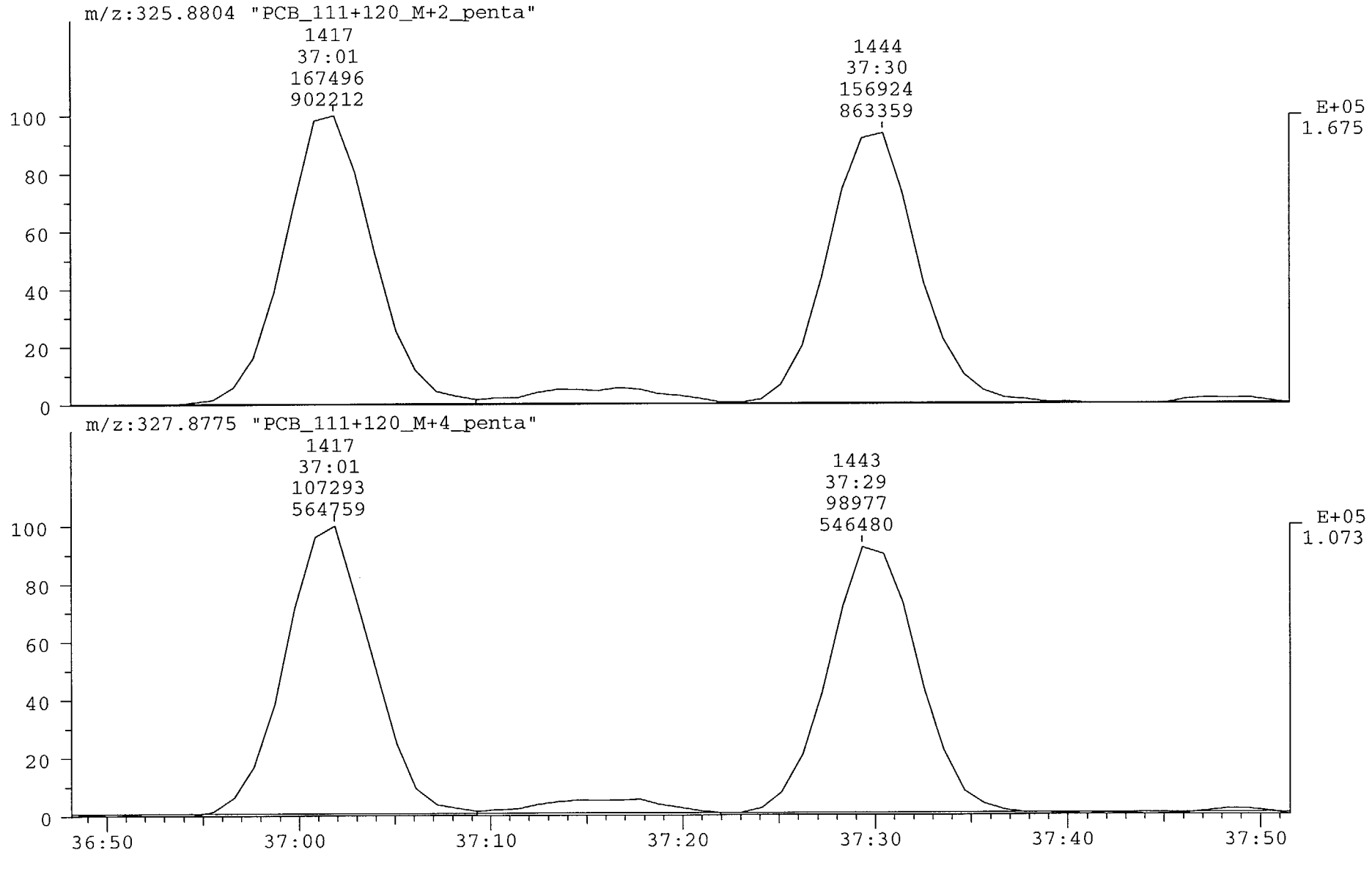
```
CHRO:  aph2w5jc                                  18-Apr-06   Elapse:   35:28      1329
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                     Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047C                 Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1310 > 1352             Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 9                  Label :   -3, 3.0
Disp:  Height  Area
```



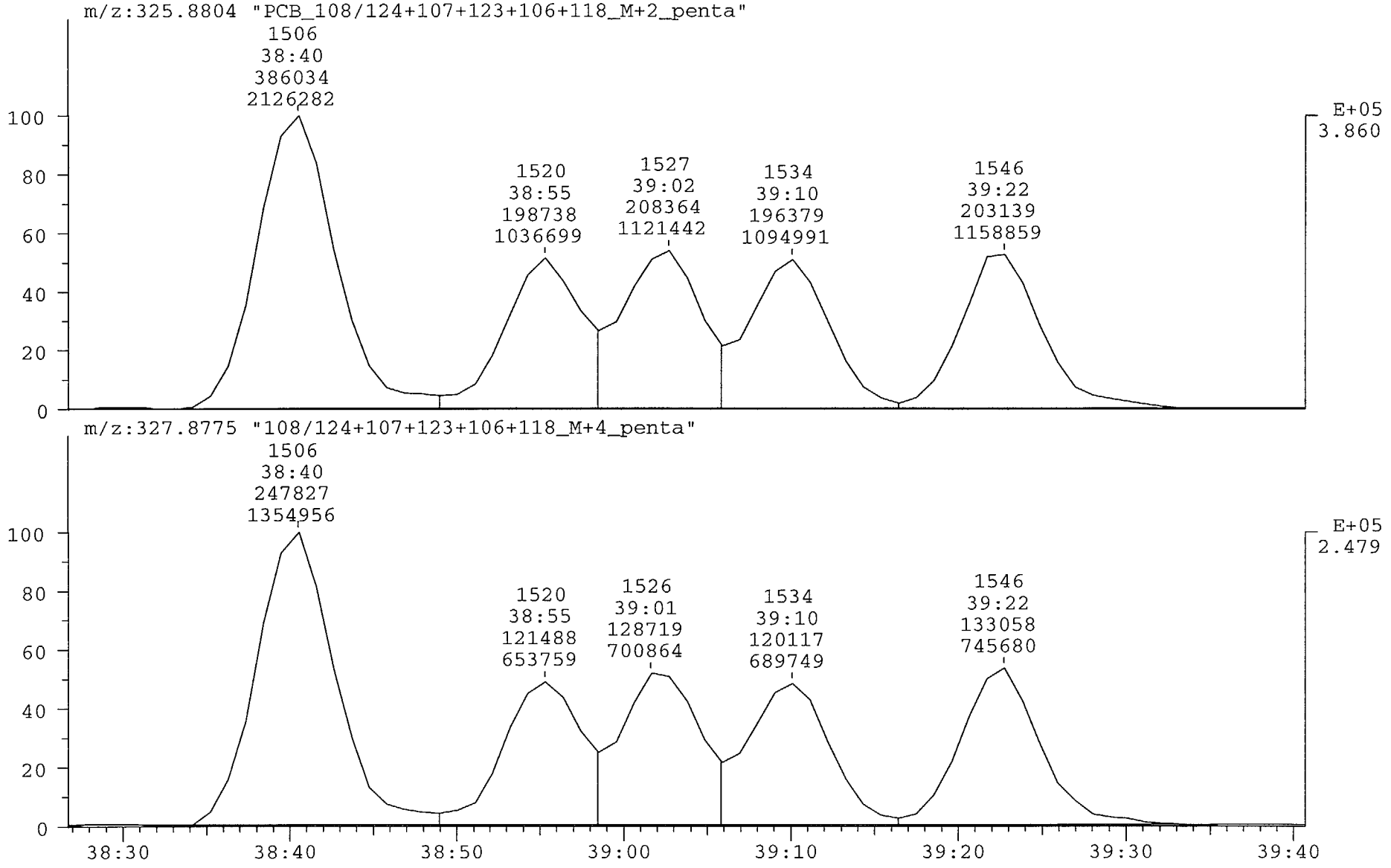
```
CHRO:  aph2w5jc                                18-Apr-06   Elapse:   36:32      1389
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                   Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :   6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C                Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1349 > 1414           Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 6                Label :   -3, 3.0
Disp:  Height  Area
```



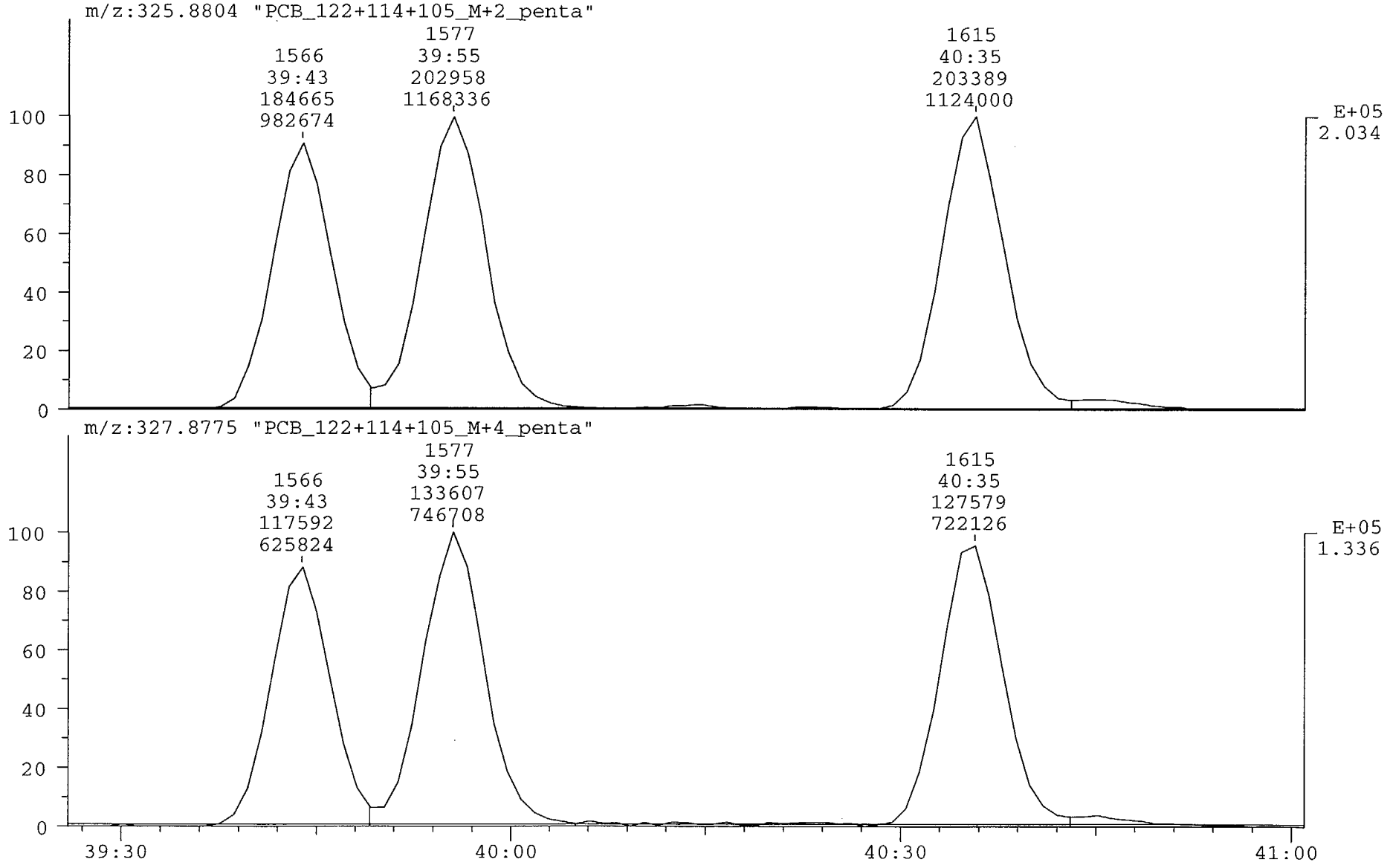
```
CHRO:  aph2w5jc                                  18-Apr-06   Elapse:  37:09      1424
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                     Start :  12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C                  Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1404 > 1464             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1                  Label :  -3, 3.0
Disp:  Height  Area
```



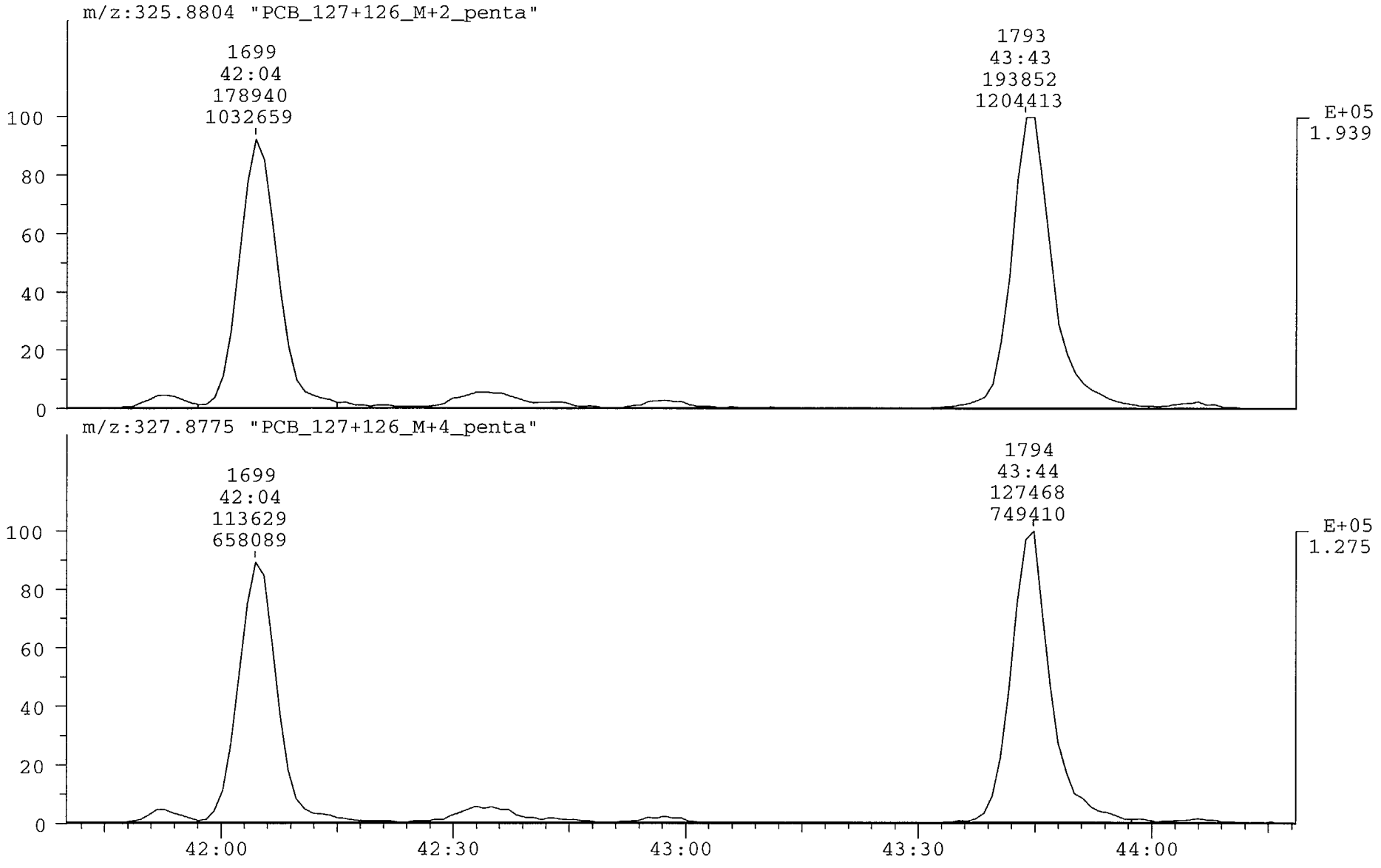
```
CHRO:  aph2w5jc                                18-Apr-06   Elapse:  39:09      1533
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                   Start :  12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047C               Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1493 > 1563           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



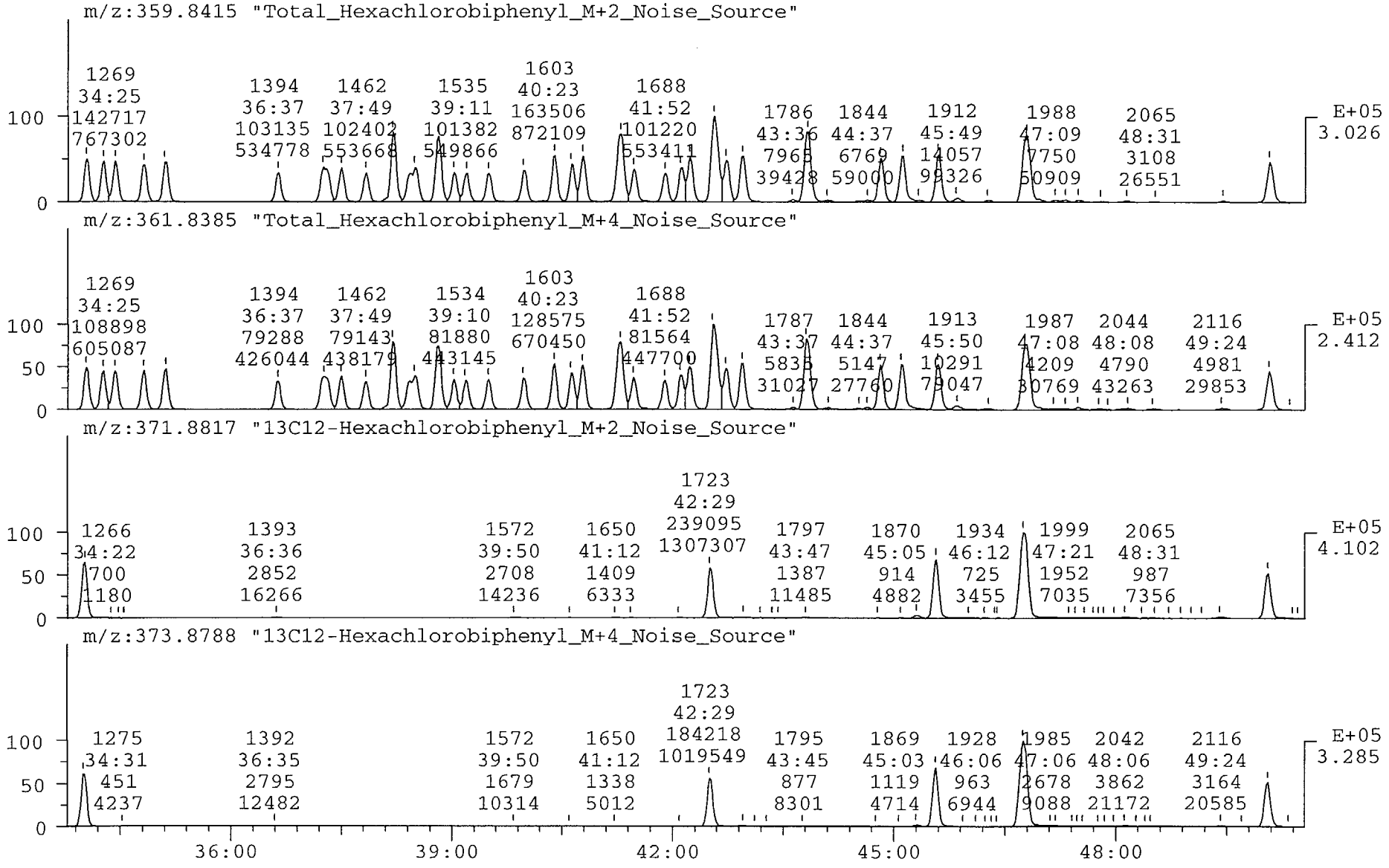
```
CHRO:  aph2w5jc                              18-Apr-06   Elapse:  40:15      1596
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                 Start :  12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C              Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1549 > 1639         Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1              Label :  -3, 3.0
Disp:  Height  Area
```



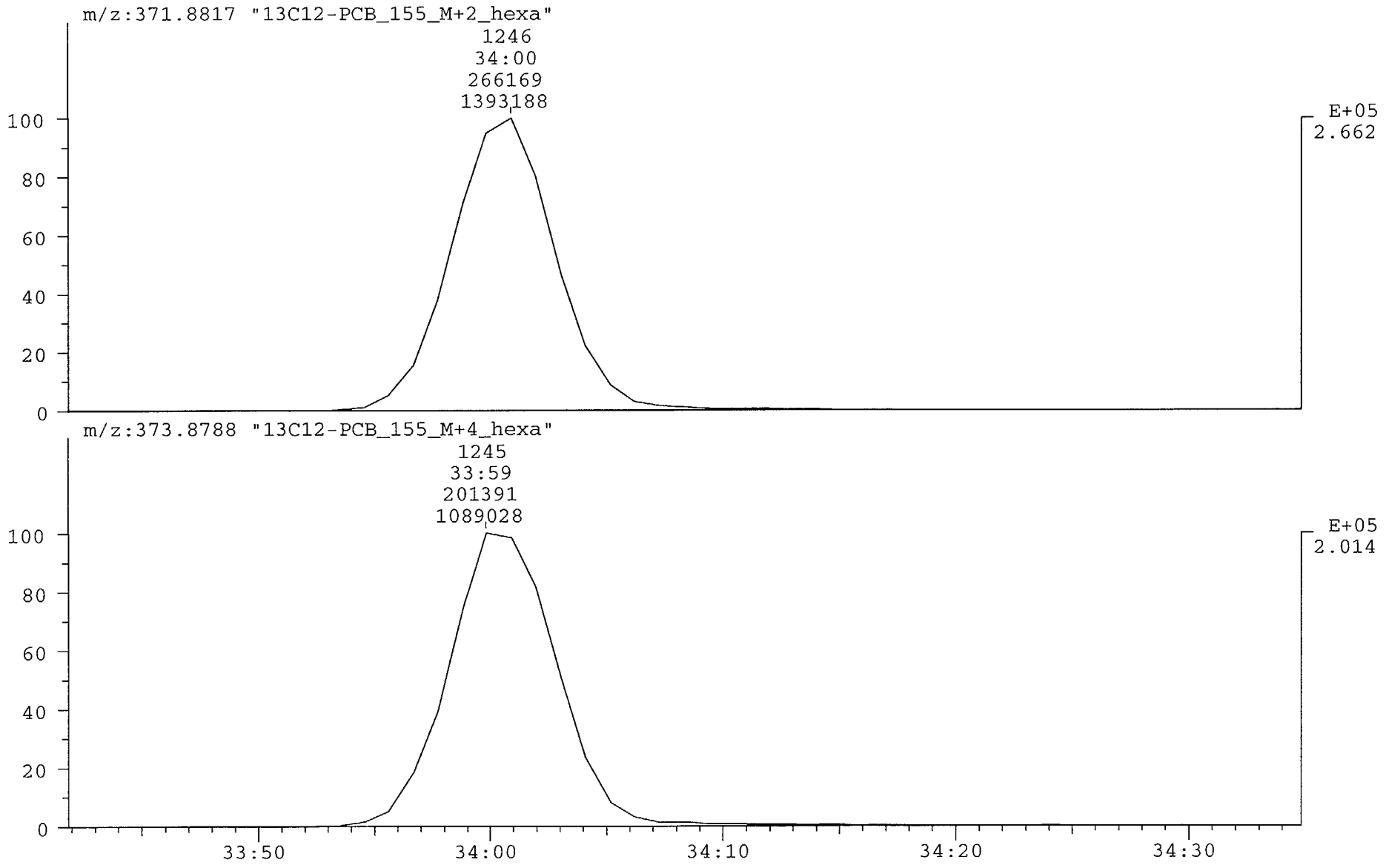
CHRO: aph2w5jc 18-Apr-06 Elapse: 42:59 1751
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1676 > 1826 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



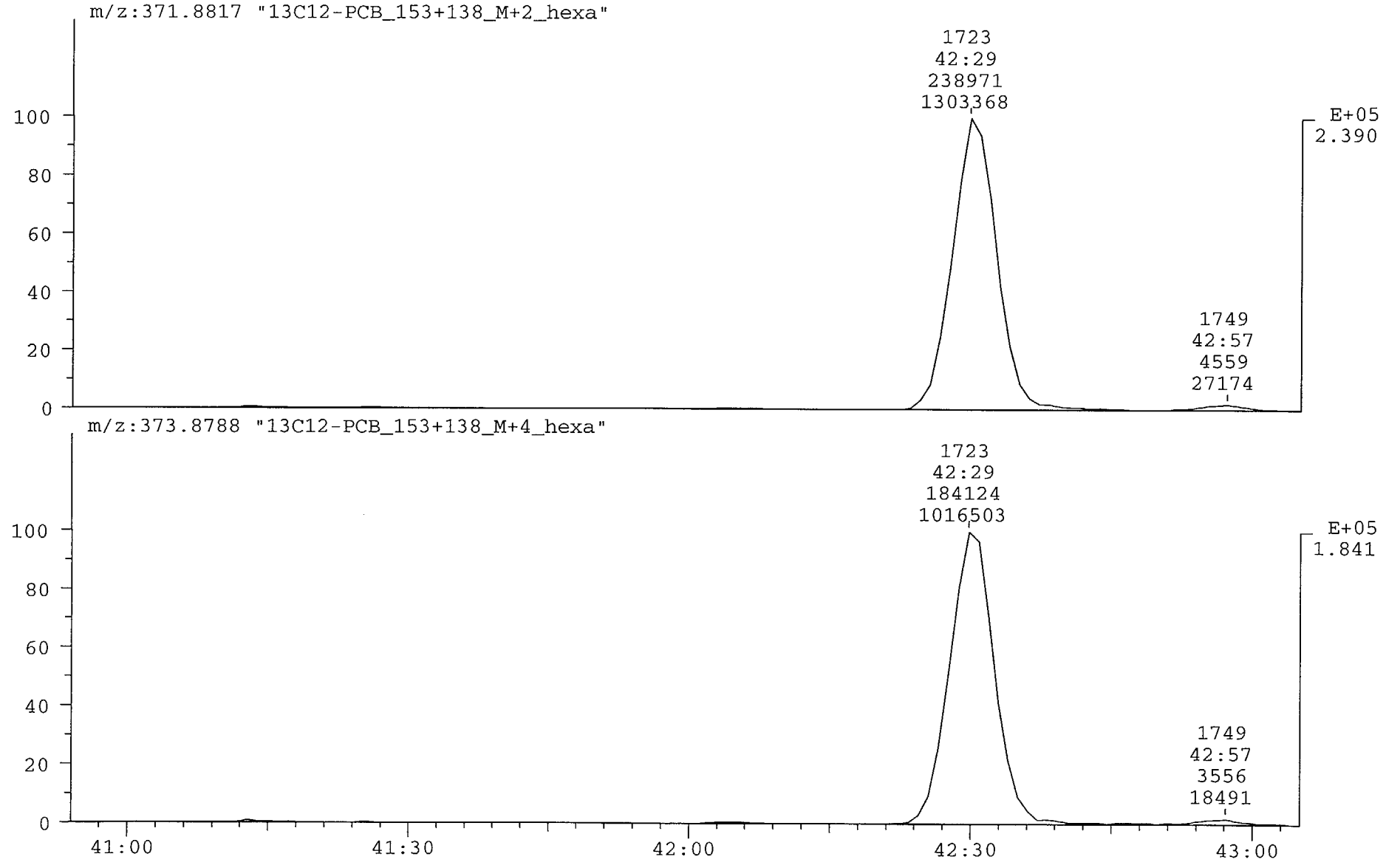
CHRO: aph2w5jc 18-Apr-06 Elapse: 42:09 1704
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1233 > 2181 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



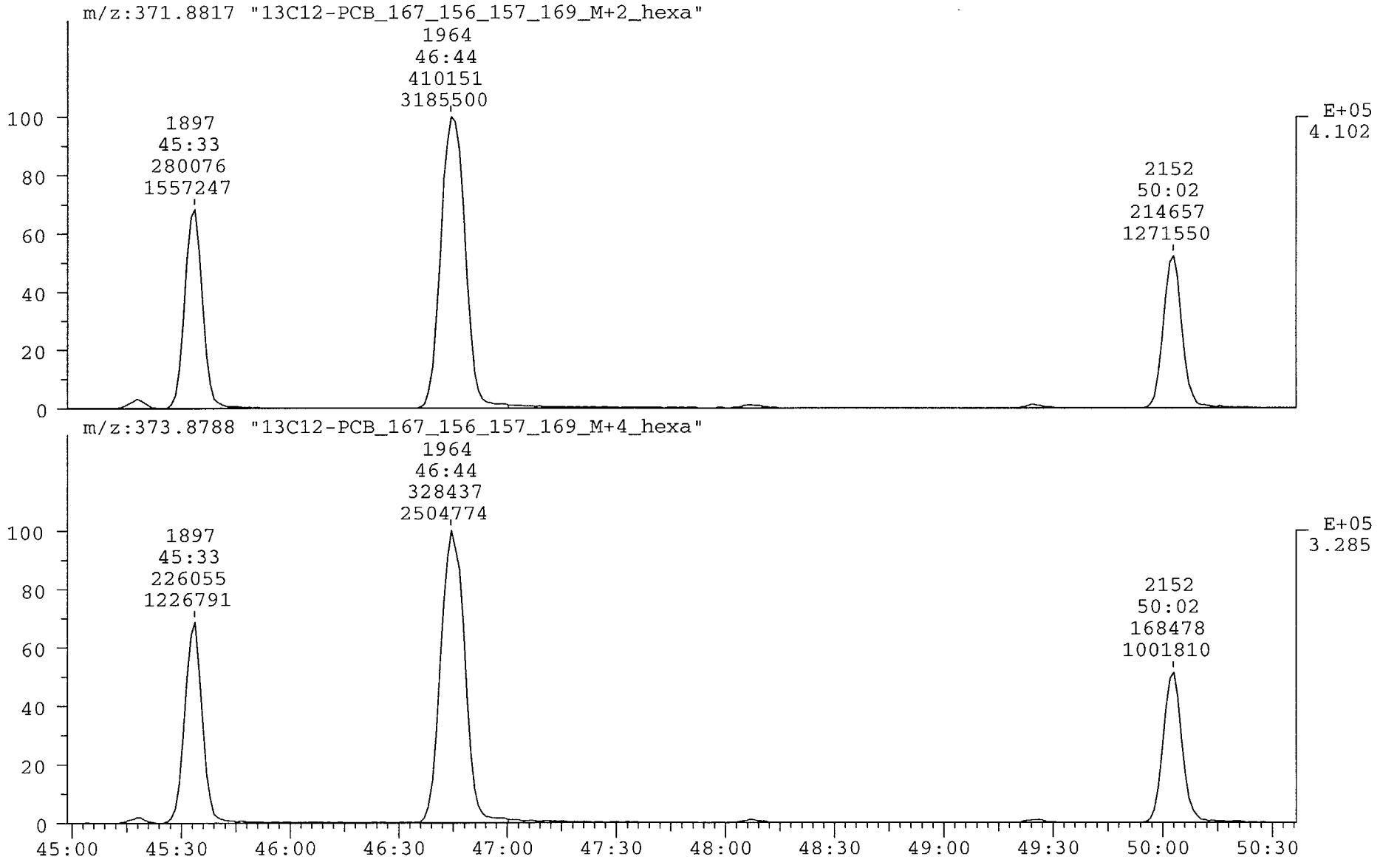
CHRO: aph2w5jc 18-Apr-06 Elapse: 34:08 1253
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1228 > 1278 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



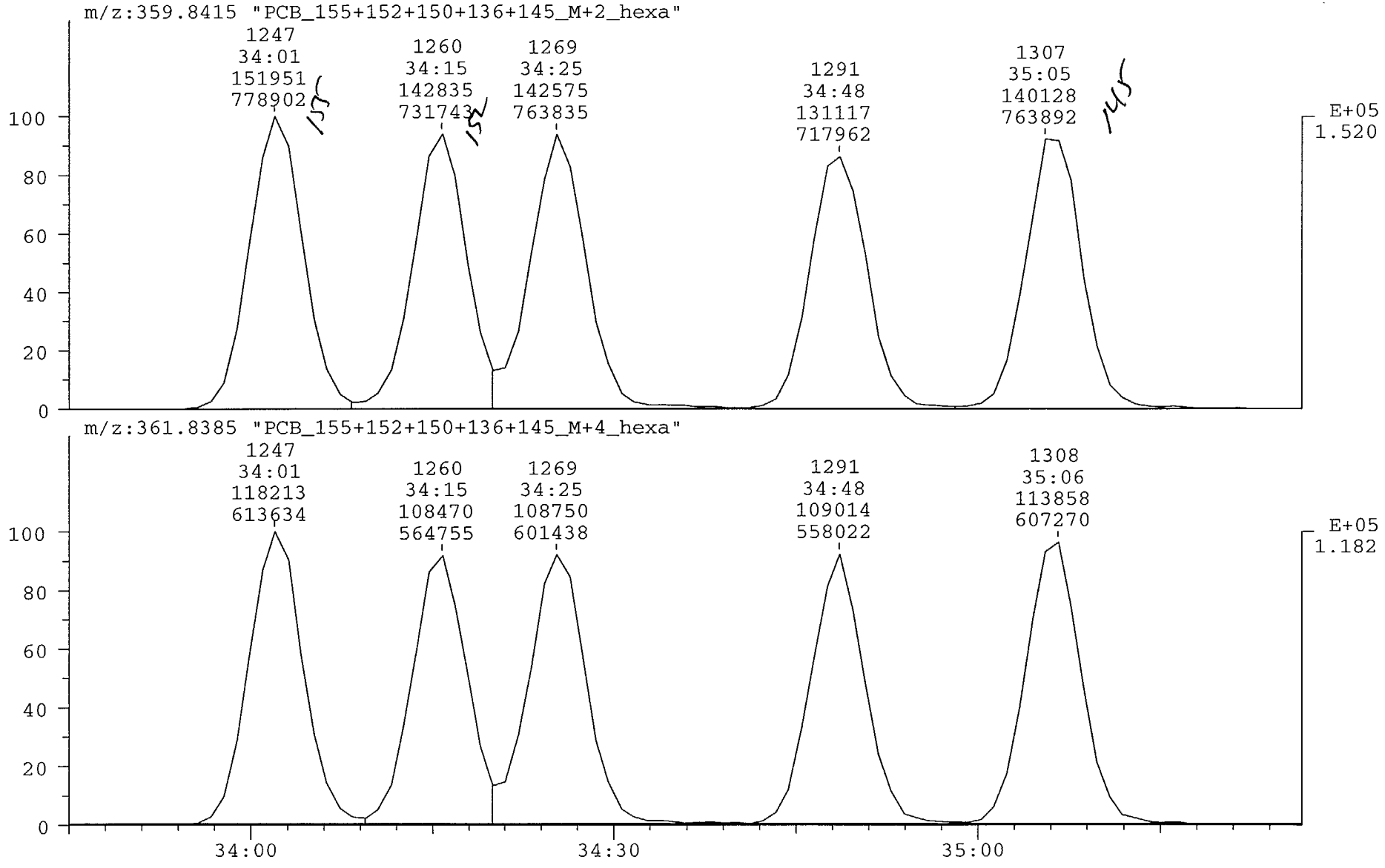
CHRO: aph2w5jc 18-Apr-06 Elapse: 41:59 1694
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1632 > 1756 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



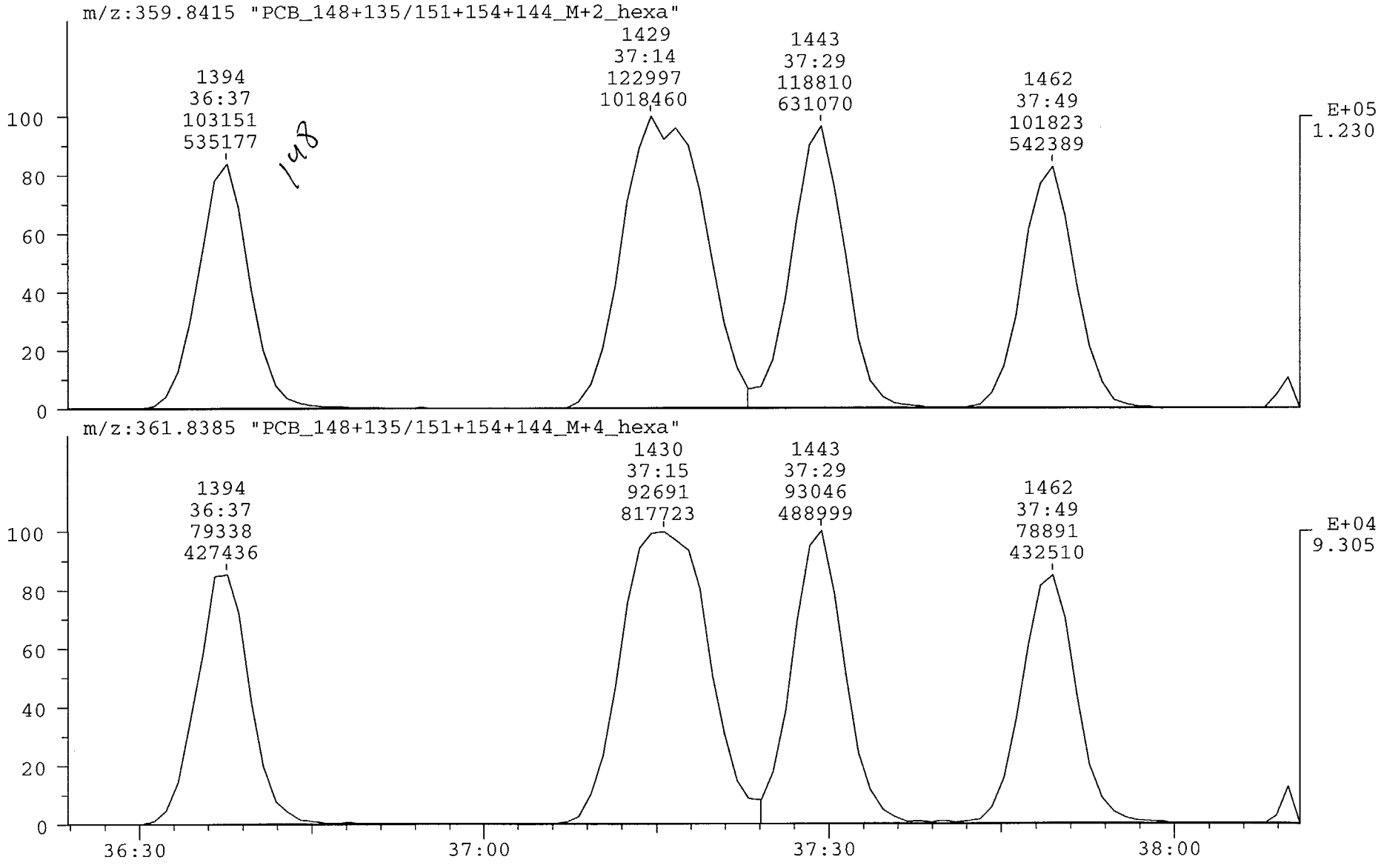
CHRO: aph2w5jc 18-Apr-06 Elapse: 47:53 2029
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1864 > 2184 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  aph2w5jc                              18-Apr-06   Elapse:   34:44      1287
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                 Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :   6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C              Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1231 > 1327         Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -3, 3.0
Disp:  Height  Area
```

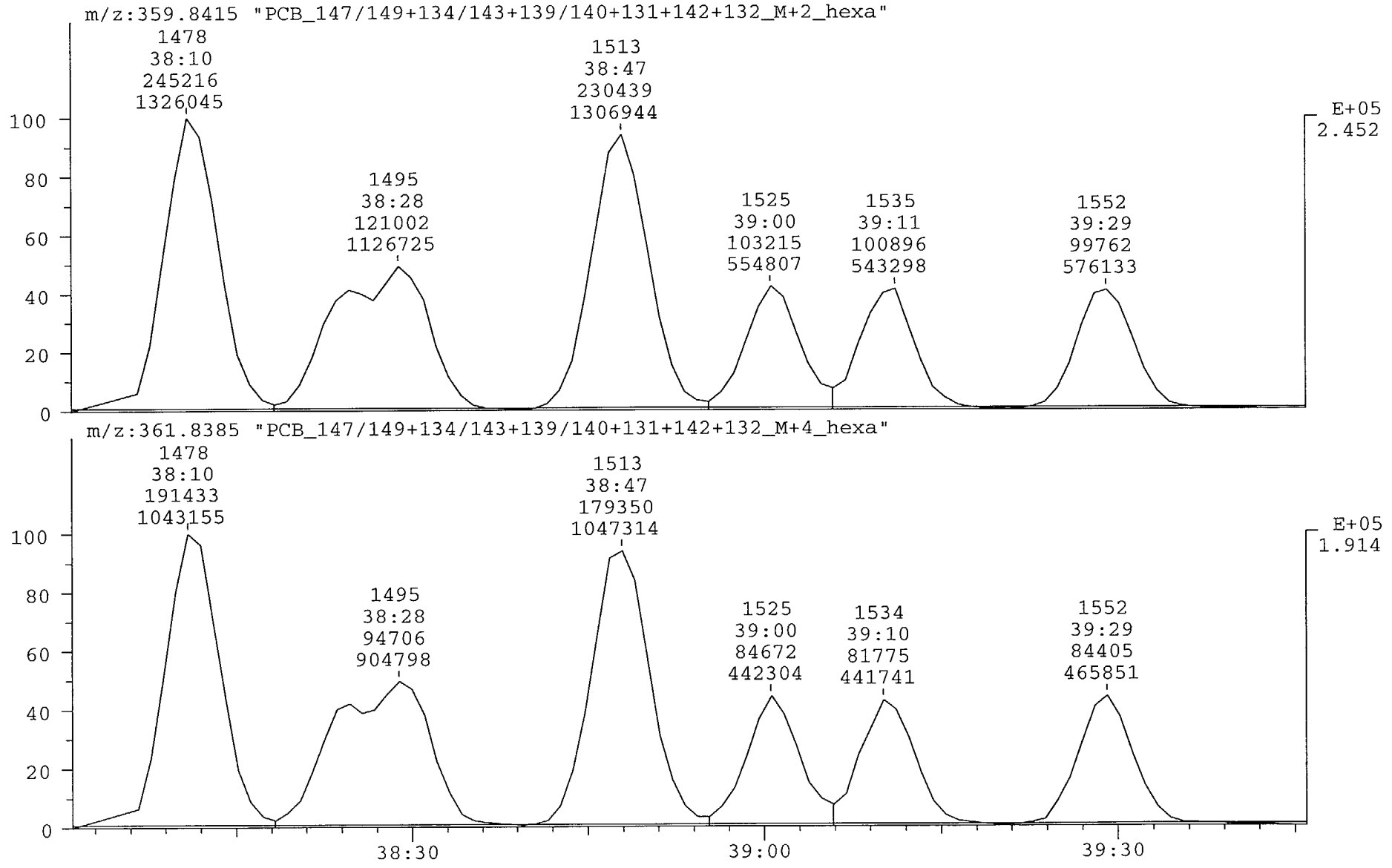


CHRO: aph2w5jc 18-Apr-06 Elapse: 37:19 1434
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1381 > 1478 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

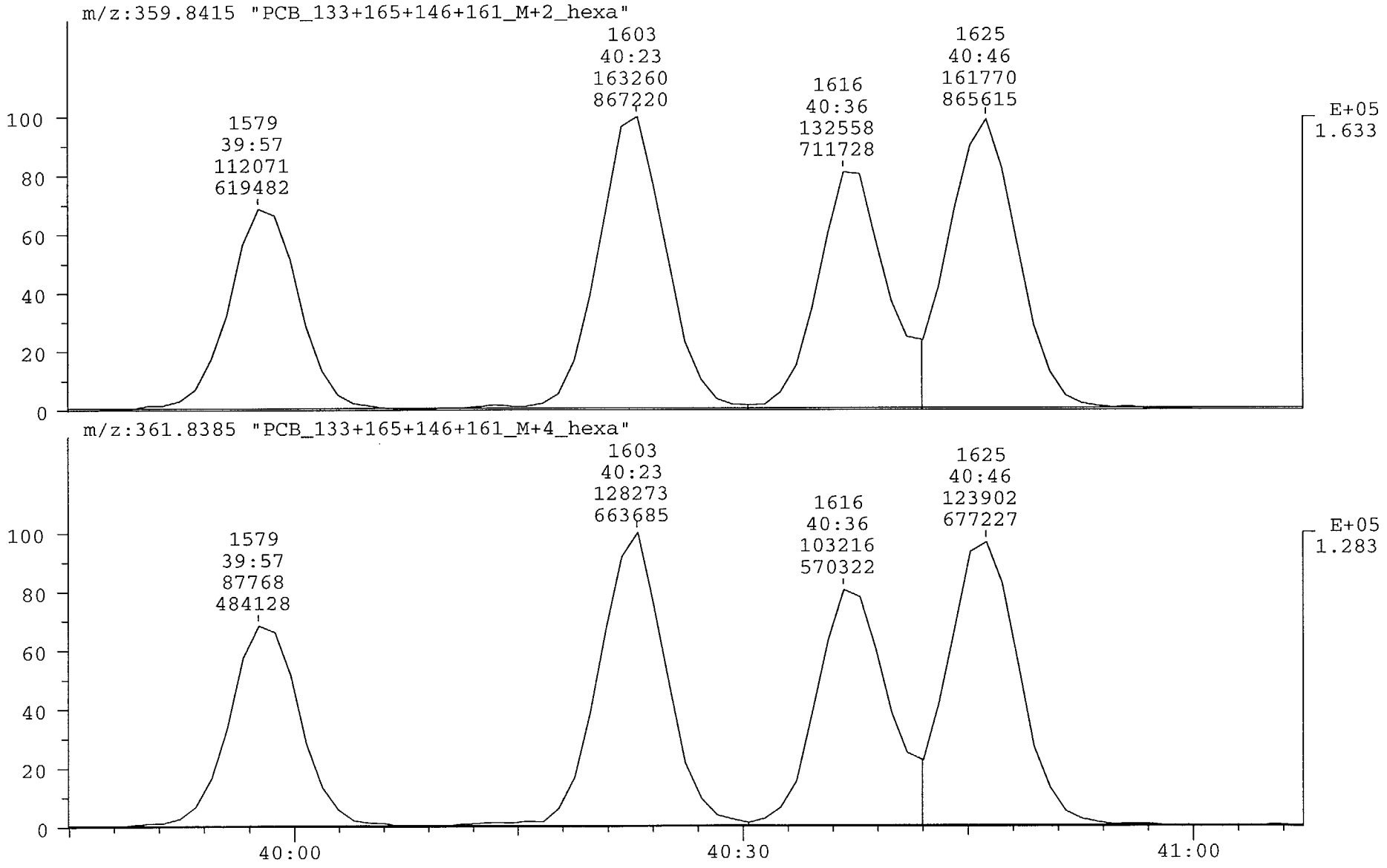


3011

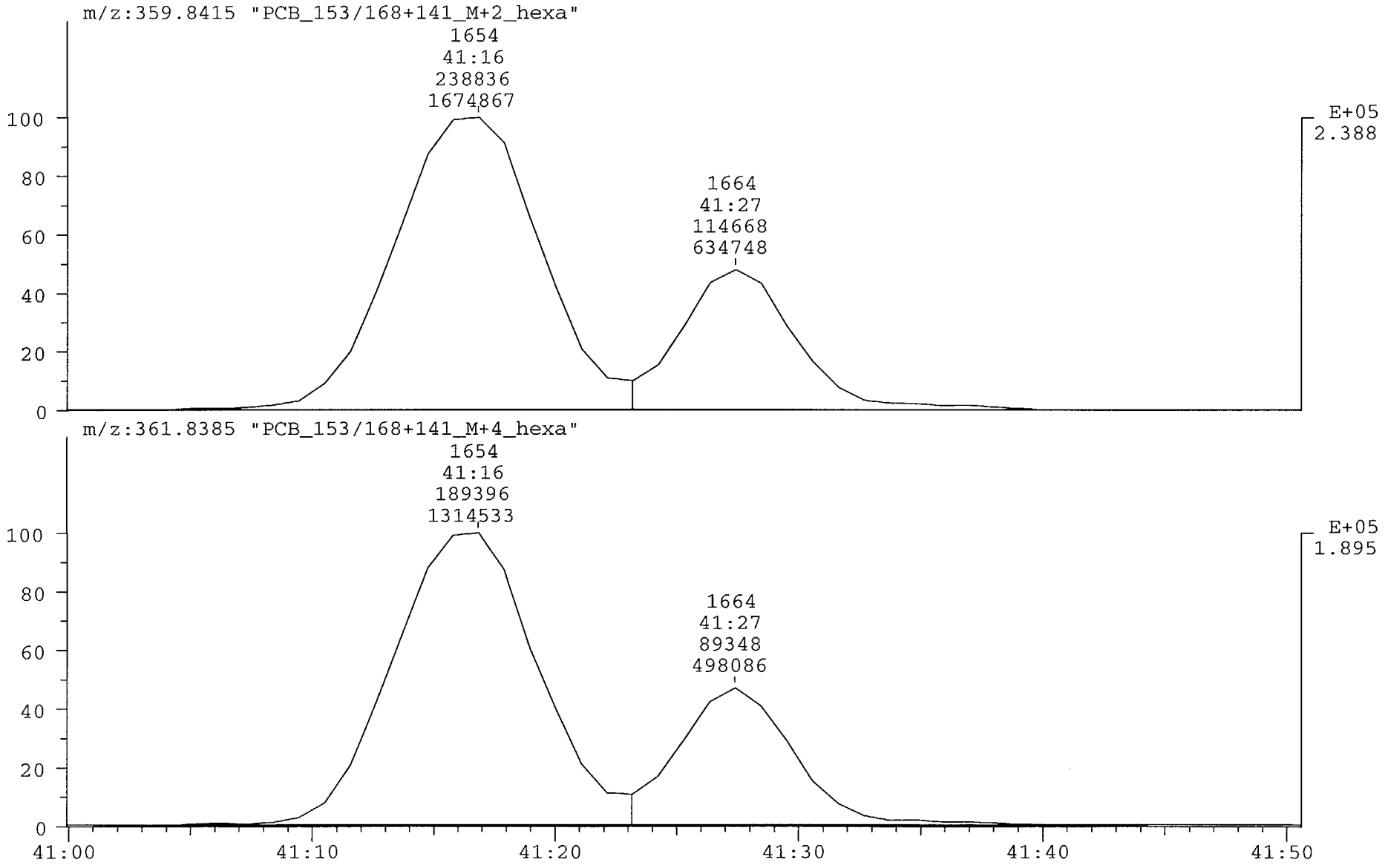
CHRO: aph2w5jc 18-Apr-06 Elapse: 38:53 1518
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1473 > 1568 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



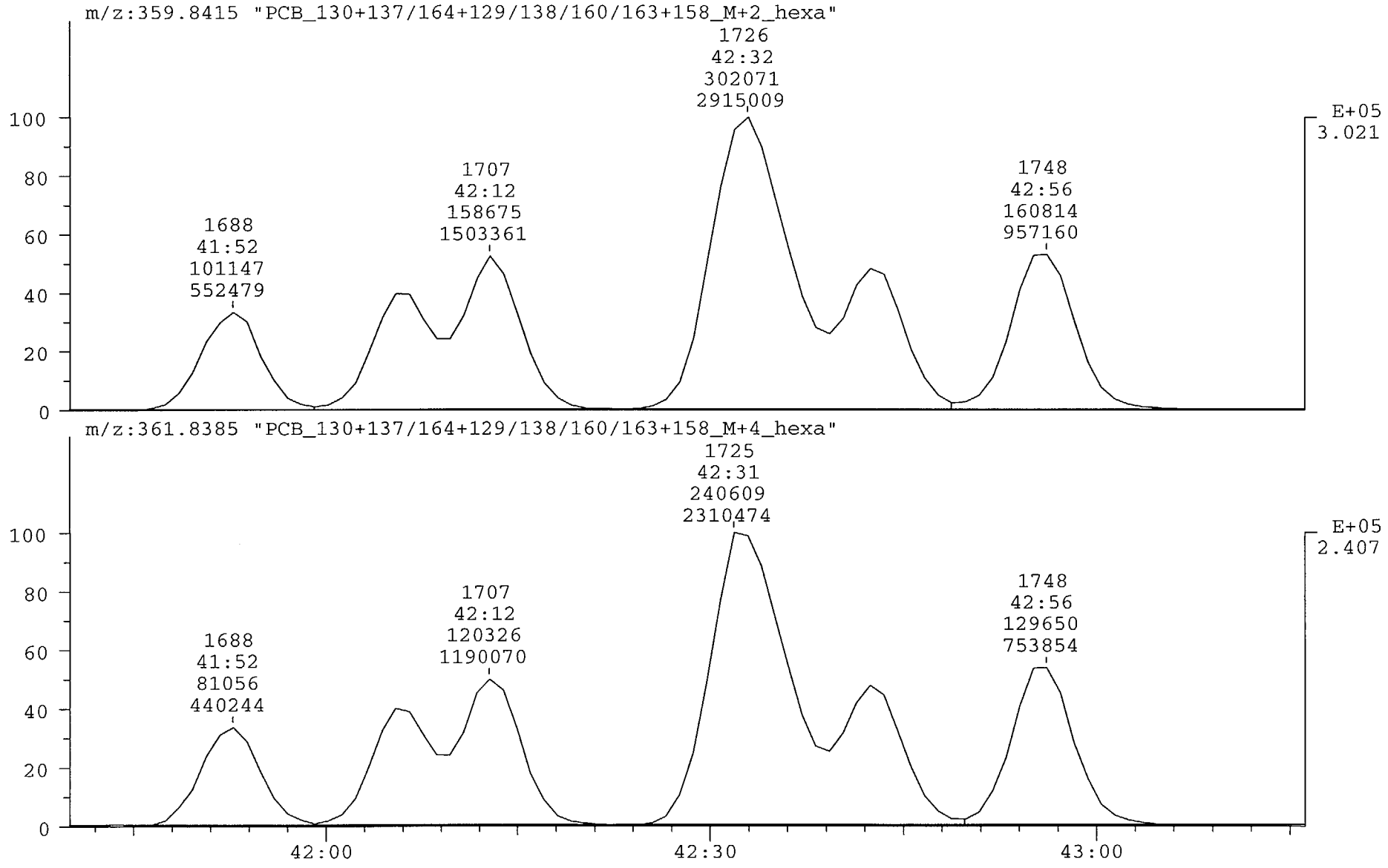
CHRO: aph2w5jc 18-Apr-06 Elapse: 40:29 1609
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1567 > 1645 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



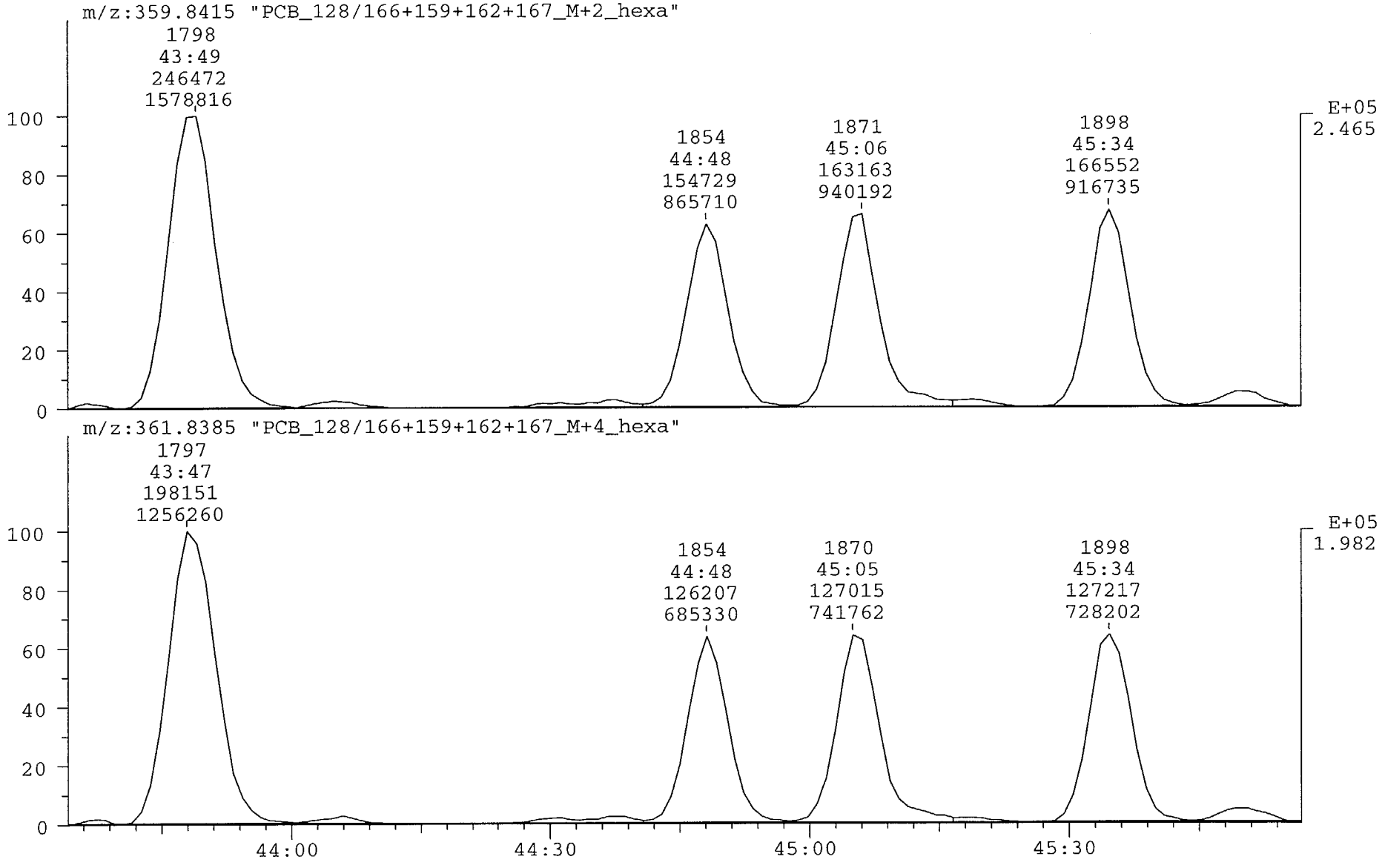
CHRO: aph2w5jc 18-Apr-06 Elapse: 41:29 1666
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1638 > 1686 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



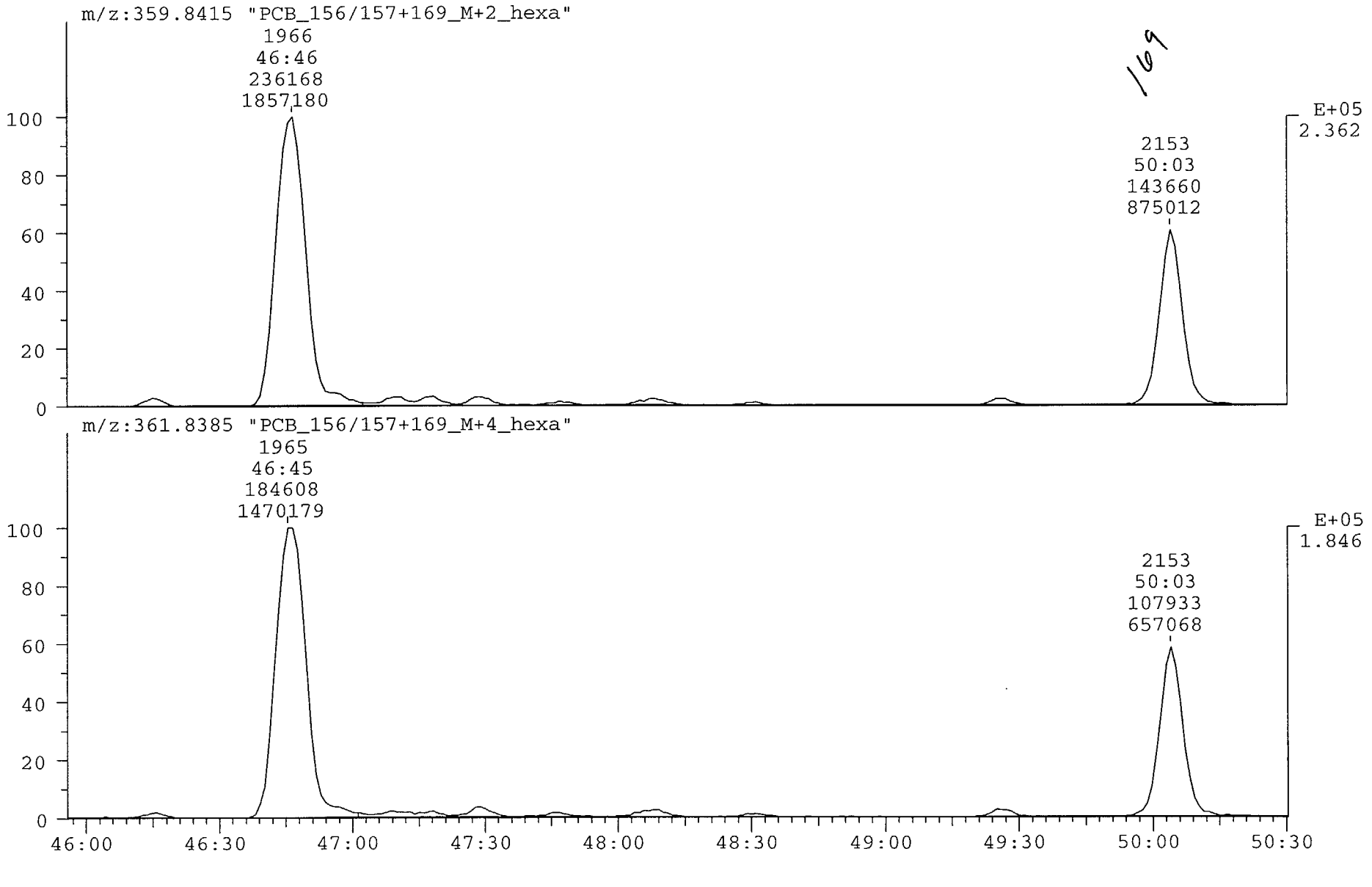
CHRO: aph2w5jc 18-Apr-06 Elapse: 42:30 1724
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1676 > 1767 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



```
CHRO:  aph2w5jc                                  18-Apr-06   Elapse:   44:48      1854
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                     Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047C                 Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1784 > 1919             Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1                  Label :   -3, 3.0
Disp:  Height  Area
```

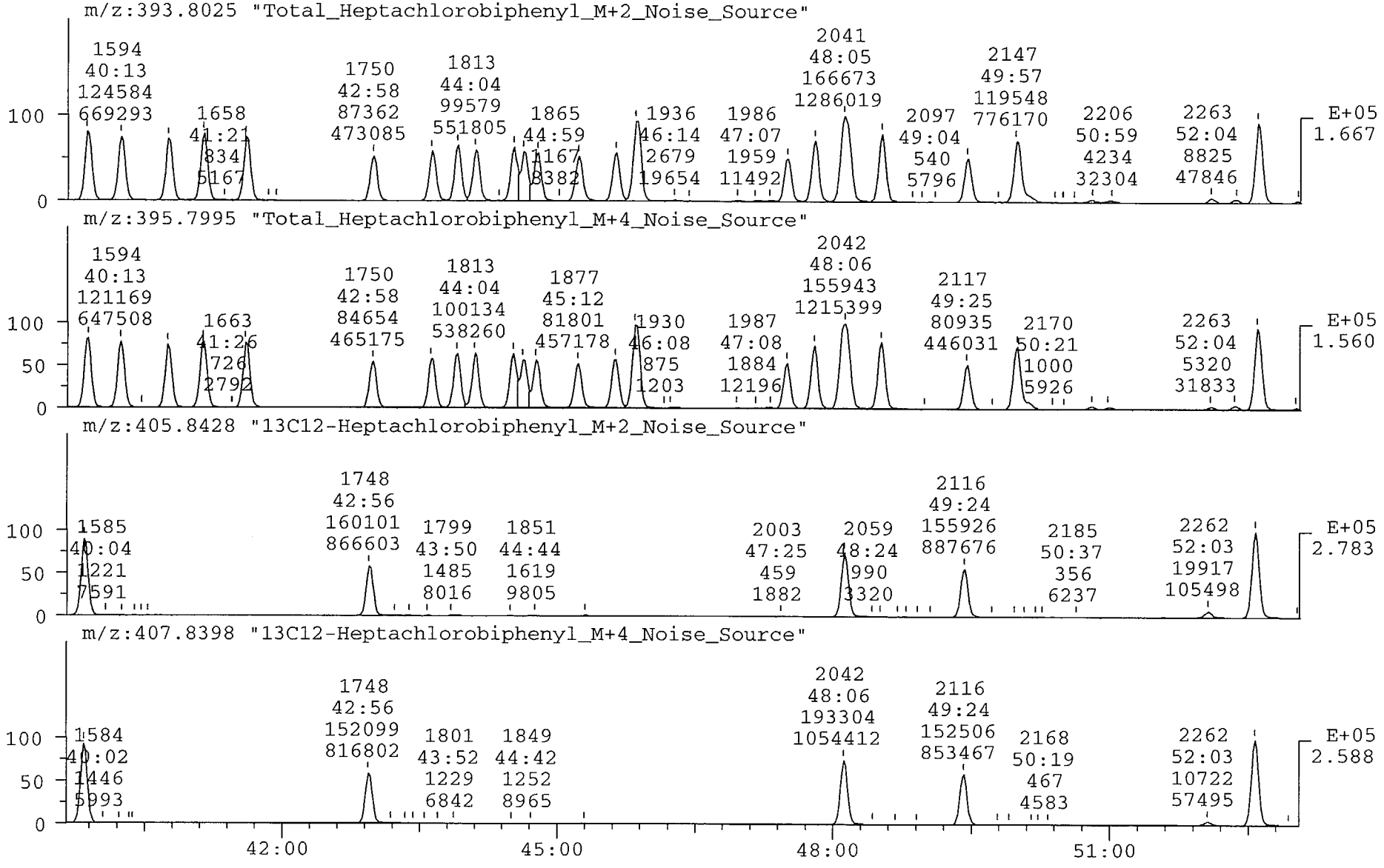


CHRO: aph2w5jc 18-Apr-06 Elapse: 48:28 2063
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1918 > 2178 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

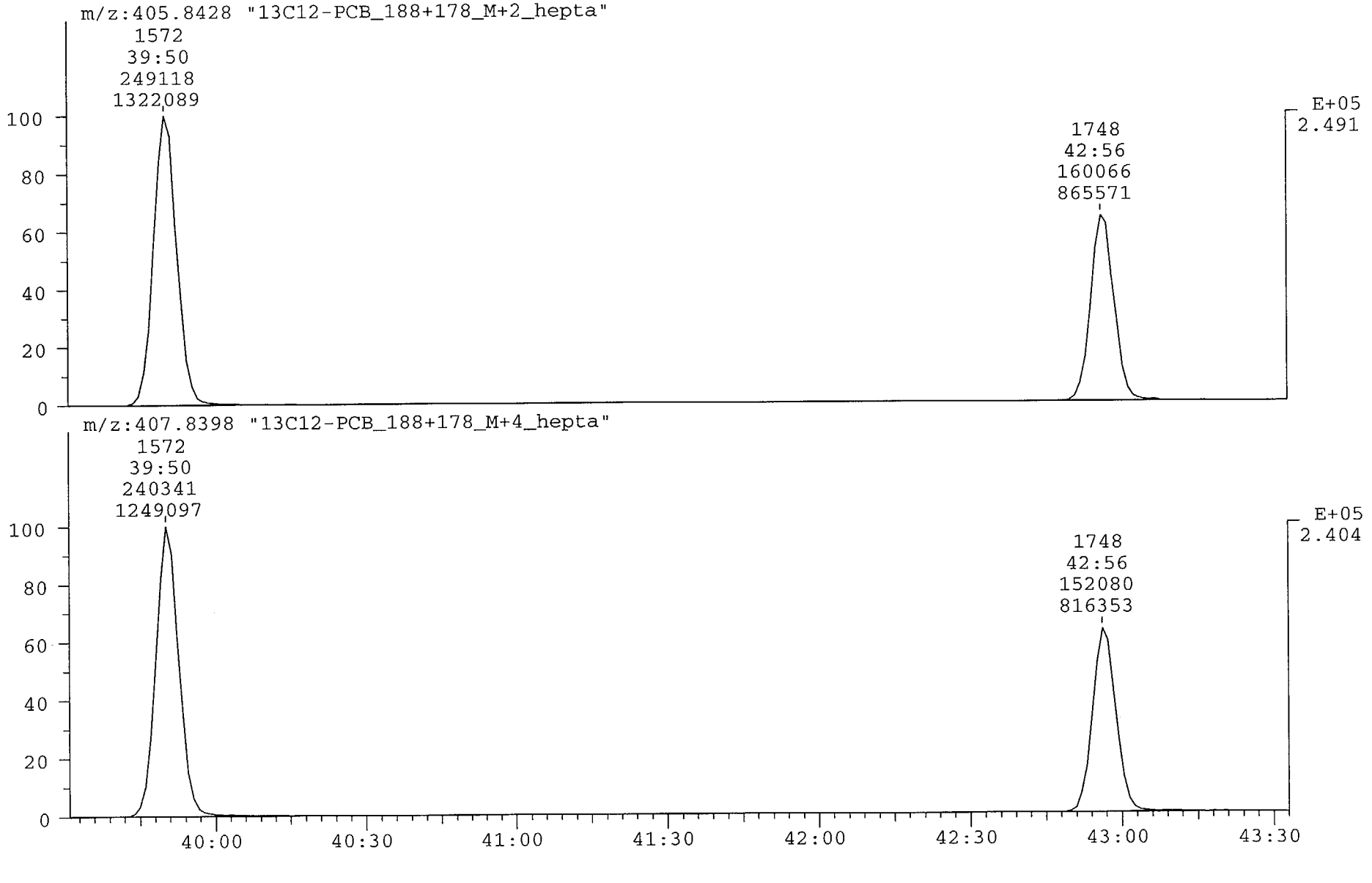


169

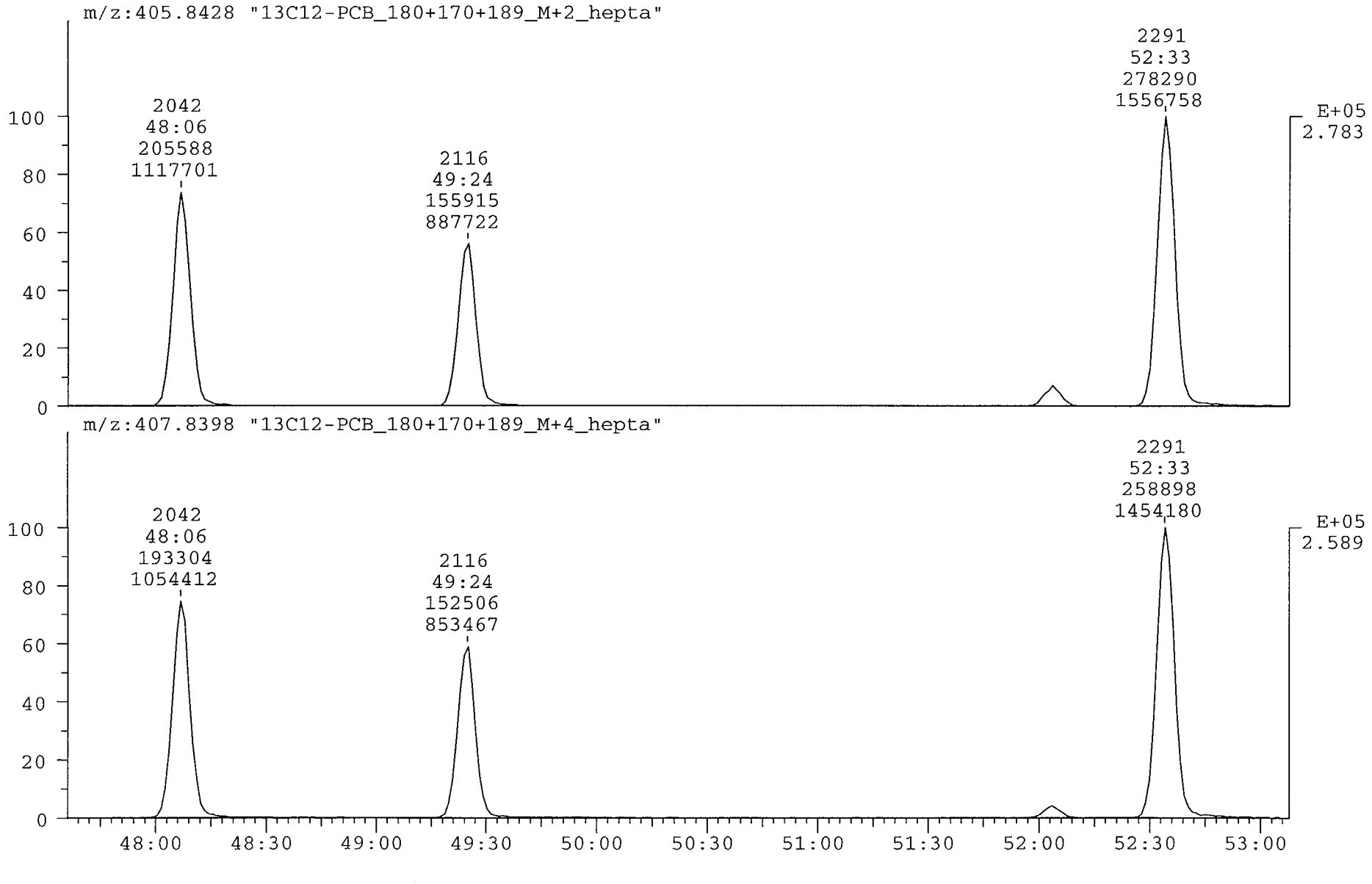
CHRO: aph2w5jc 18-Apr-06 Elapse: 46:21 1942
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1561 > 2319 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



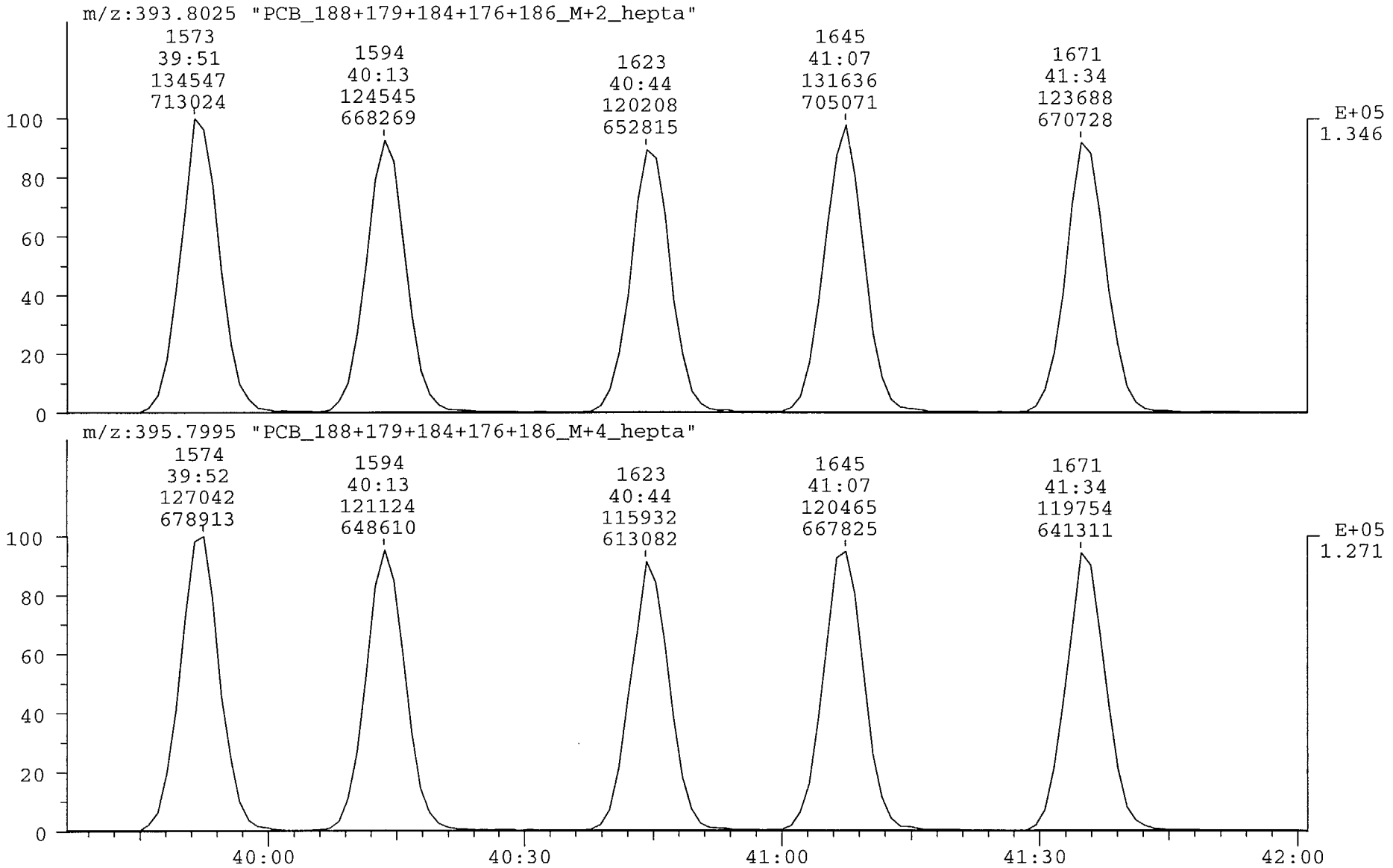
CHRO: aph2w5jc 18-Apr-06 Elapse: 41:31 1668
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1554 > 1783 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



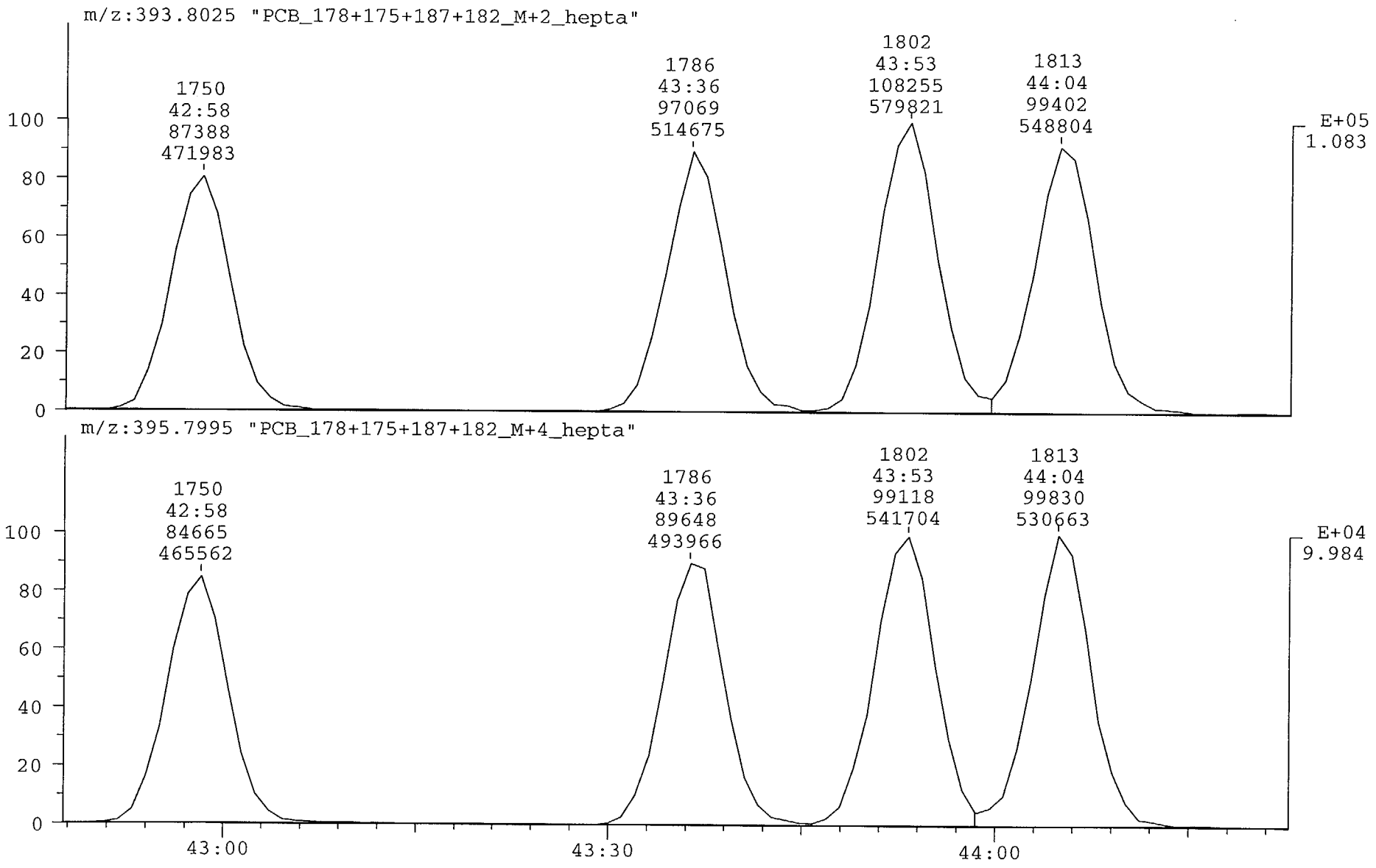
```
CHRO:  aph2w5jc                              18-Apr-06   Elapse:   50:25      2173
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                 Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047C             Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   2013 > 2323         Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -3, 3.0
Disp:  Height  Area
```



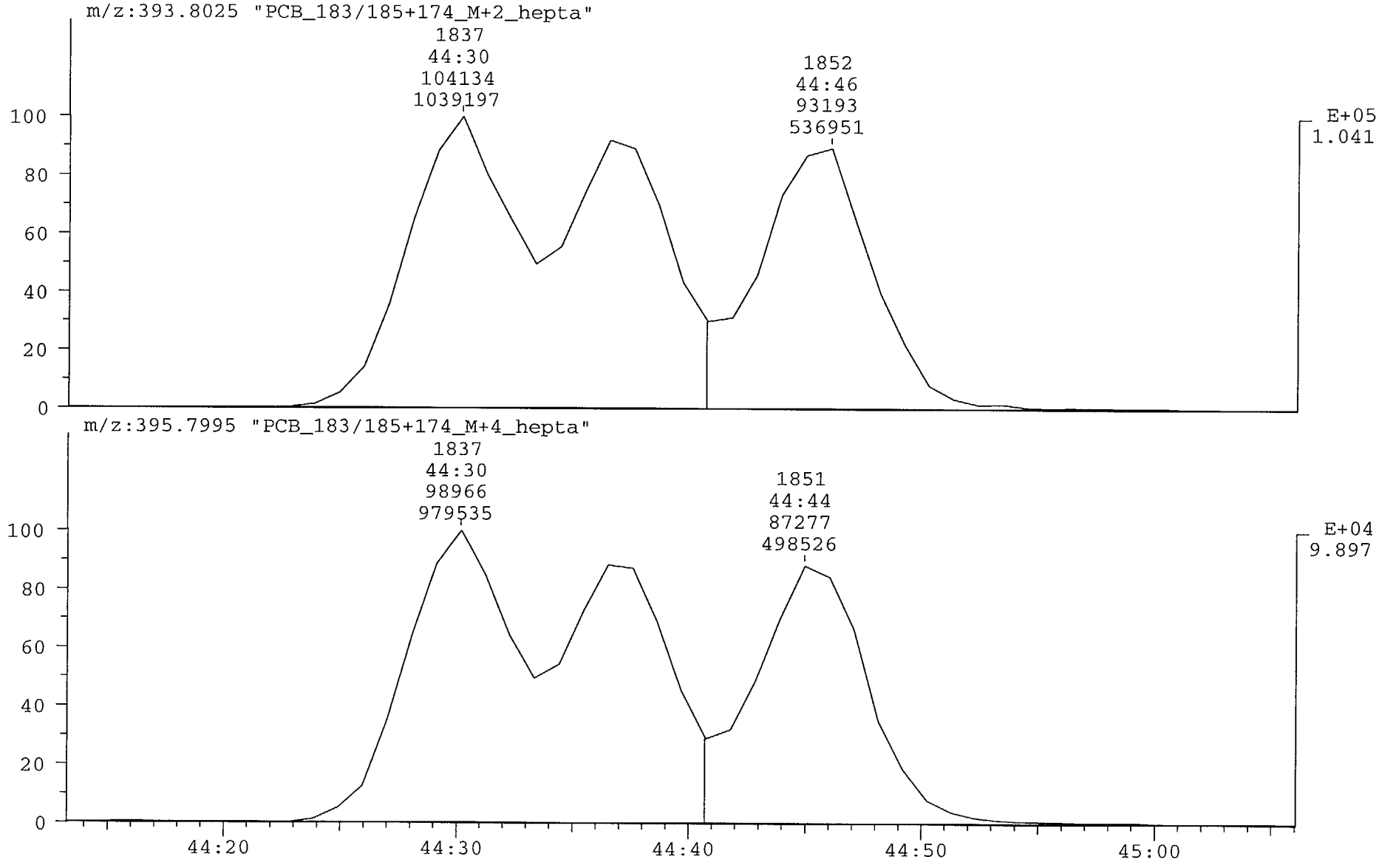
CHRO: aph2w5jc 18-Apr-06 Elapse: 40:52 1631
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1559 > 1696 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



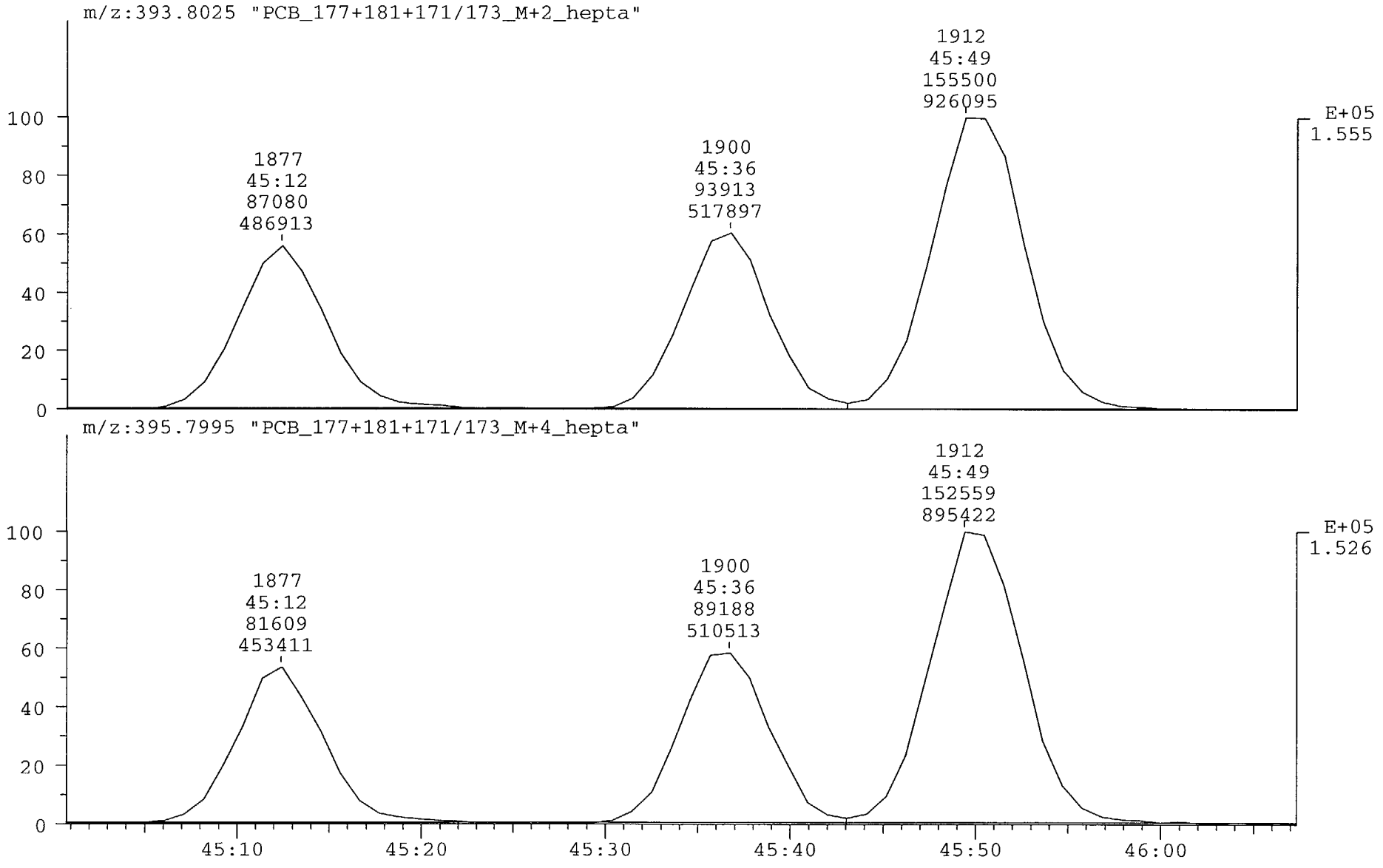
CHRO: aph2w5jc 18-Apr-06 Elapse: 43:40 1790
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1740 > 1830 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



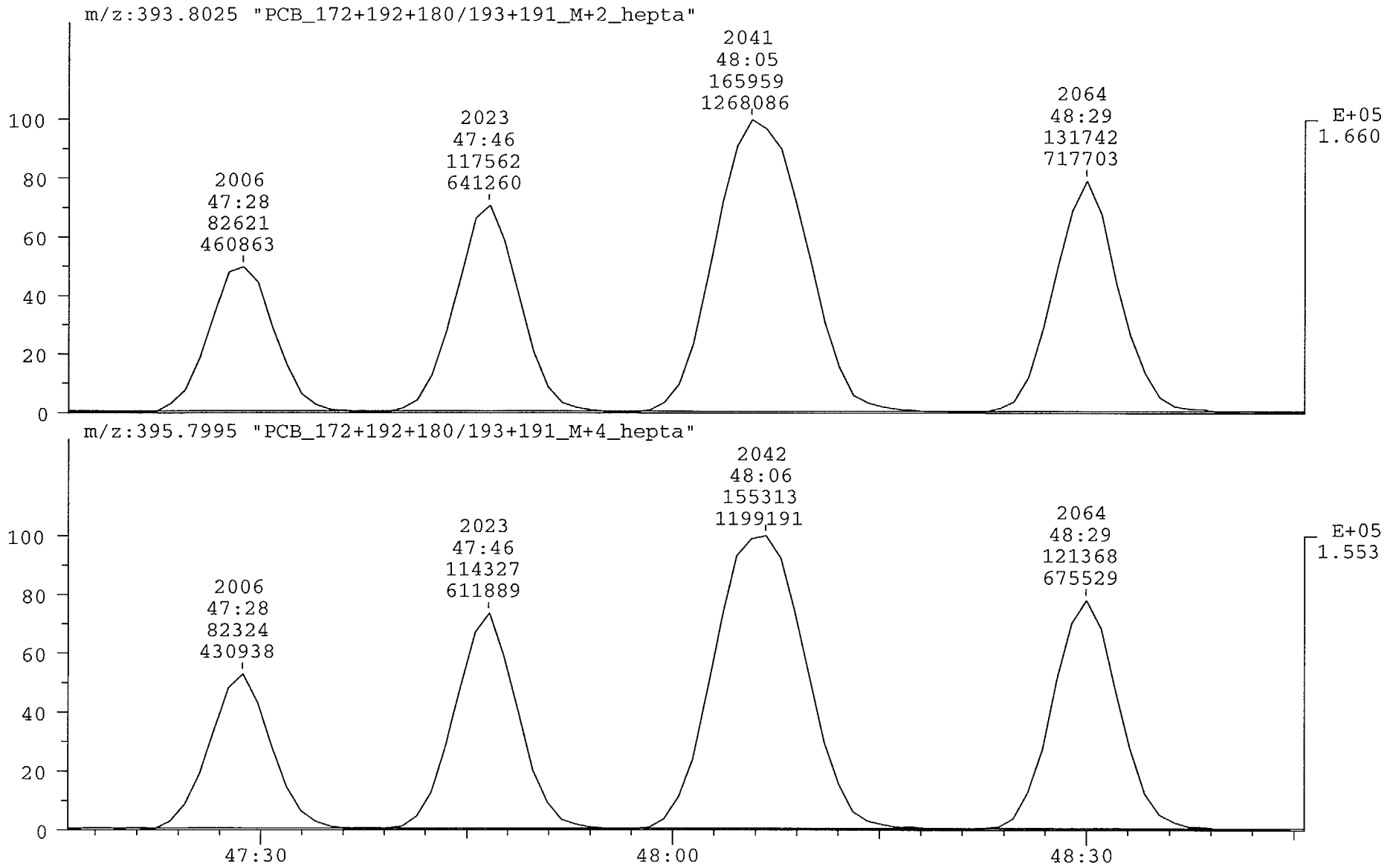
CHRO: aph2w5jc 18-Apr-06 Elapse: 44:50 1856
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1821 > 1871 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 6 Label : -3, 3.0
Disp: Height Area



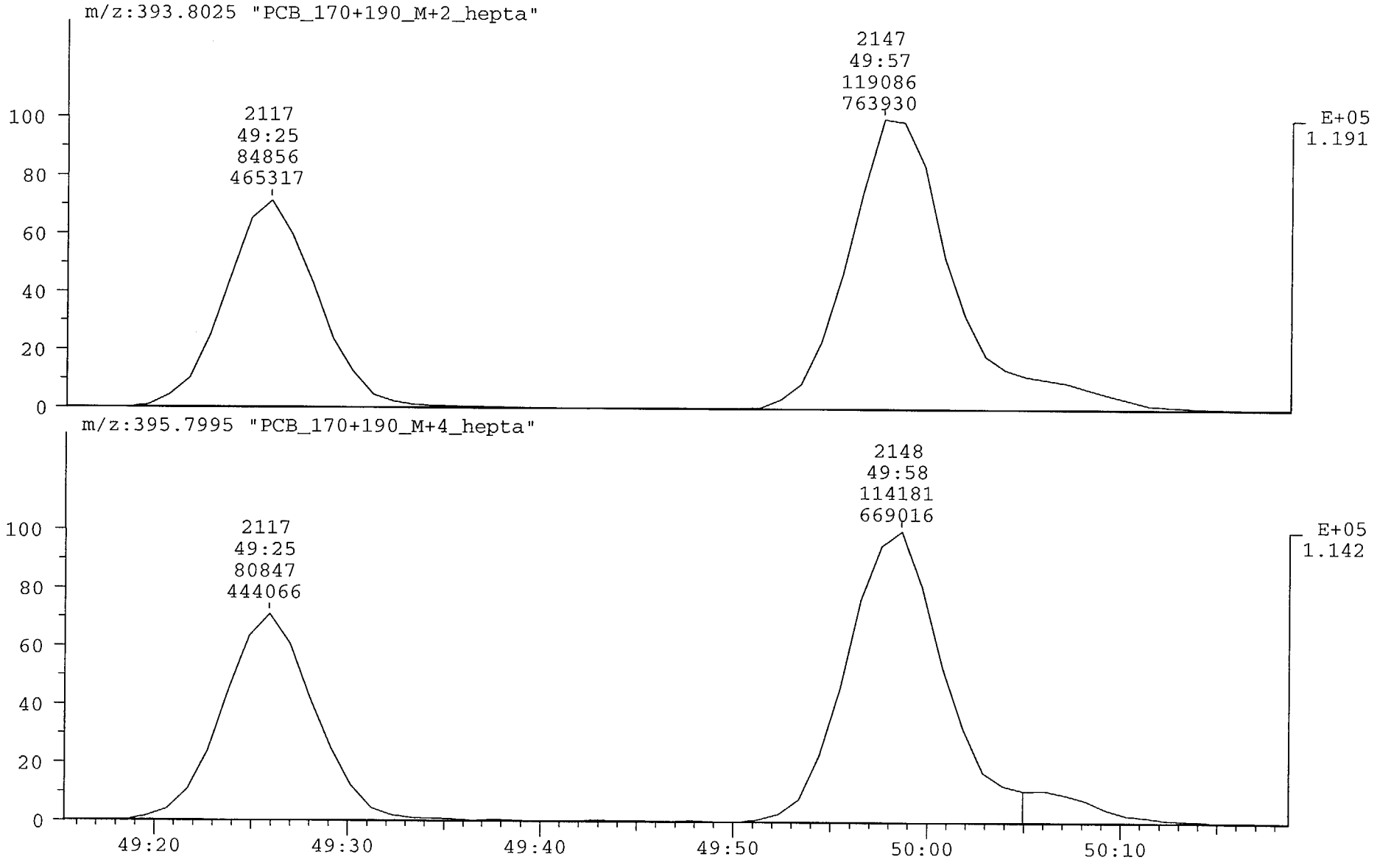
CHRO: aph2w5jc 18-Apr-06 Elapse: 45:40 1904
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1866 > 1929 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



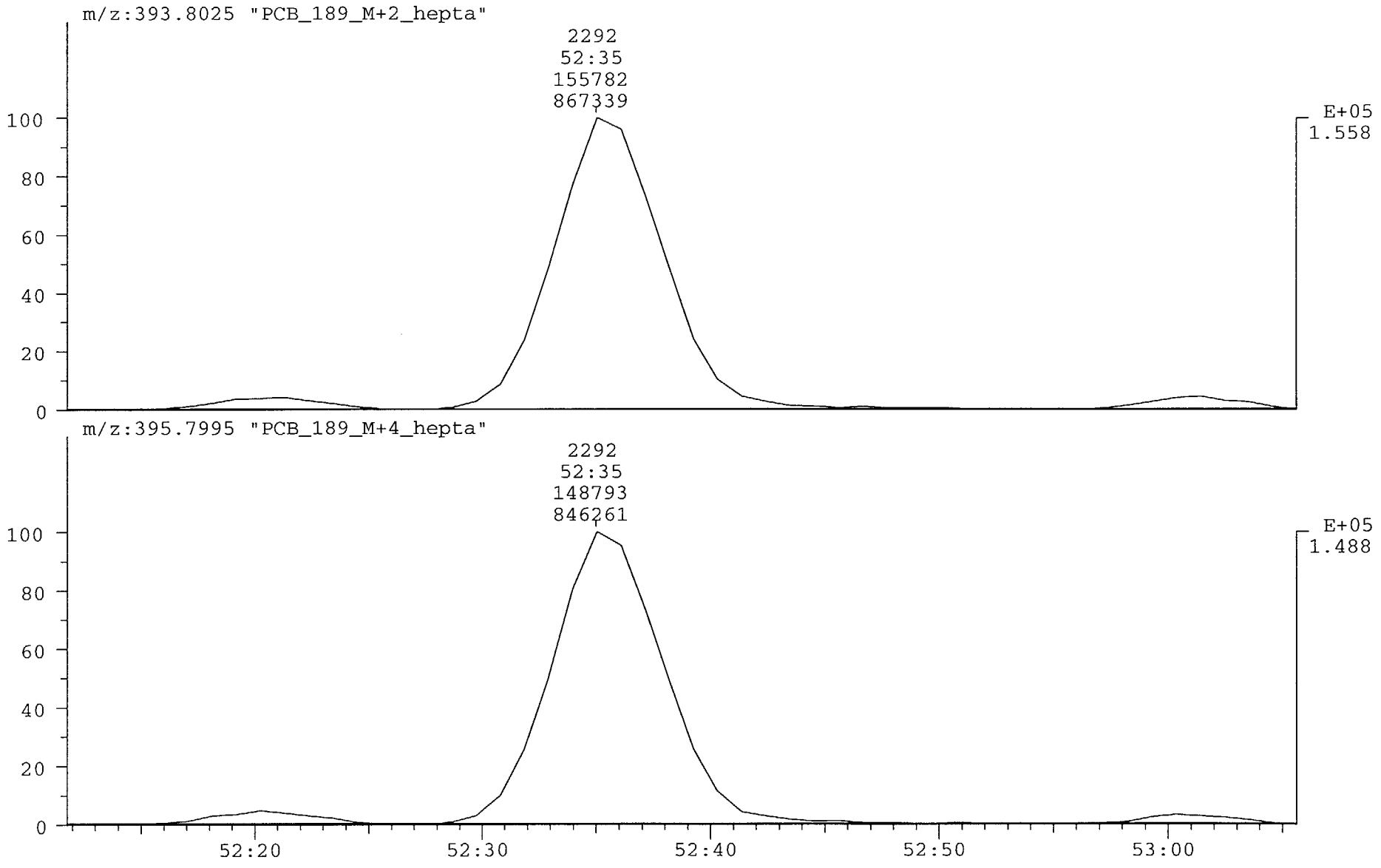
```
CHRO:  aph2w5jc                              18-Apr-06   Elapse:  48:08      2044
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                 Start :  12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C              Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1994 > 2079         Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



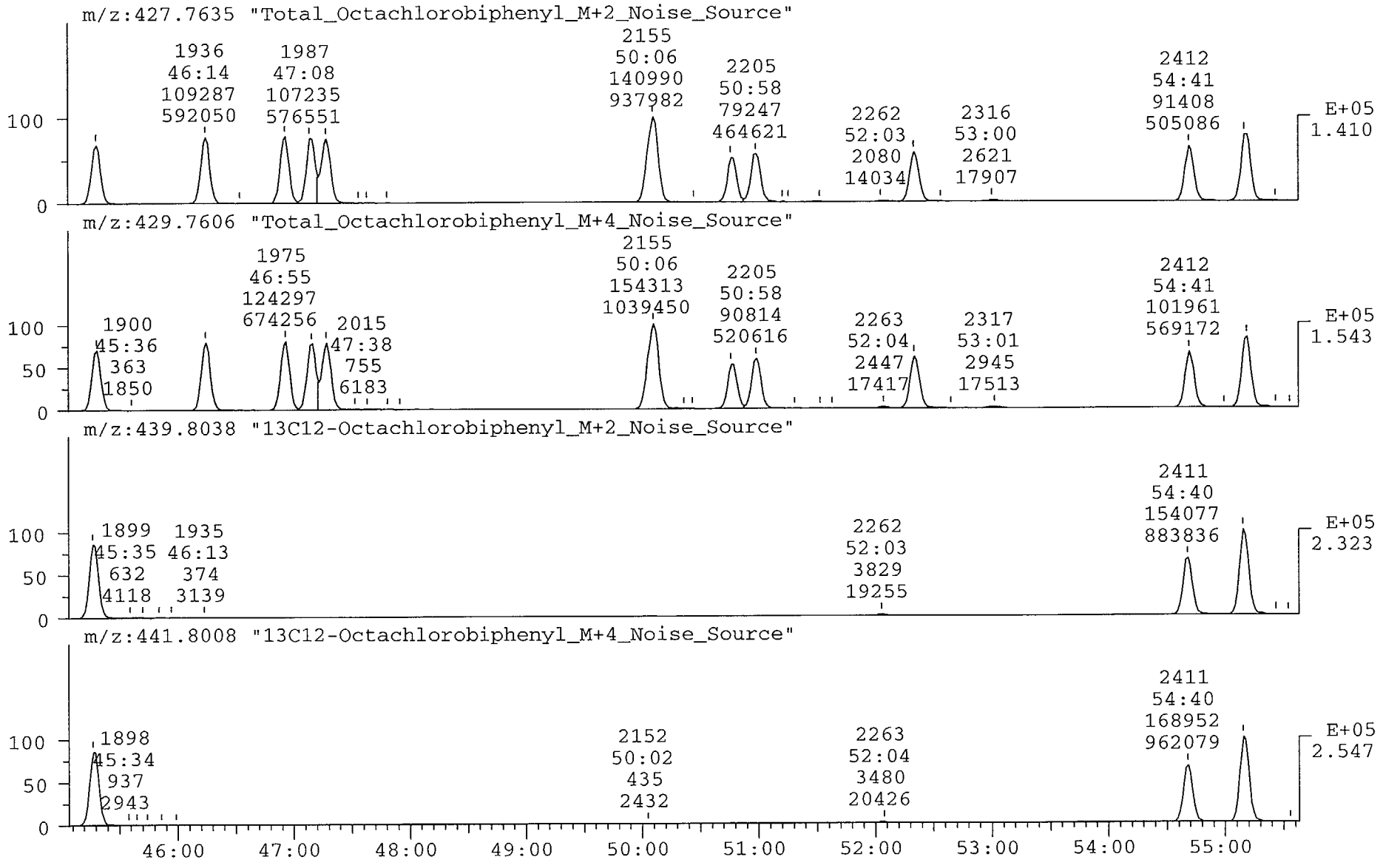
CHRO: aph2w5jc 18-Apr-06 Elapse: 49:47 2137
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2107 > 2167 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



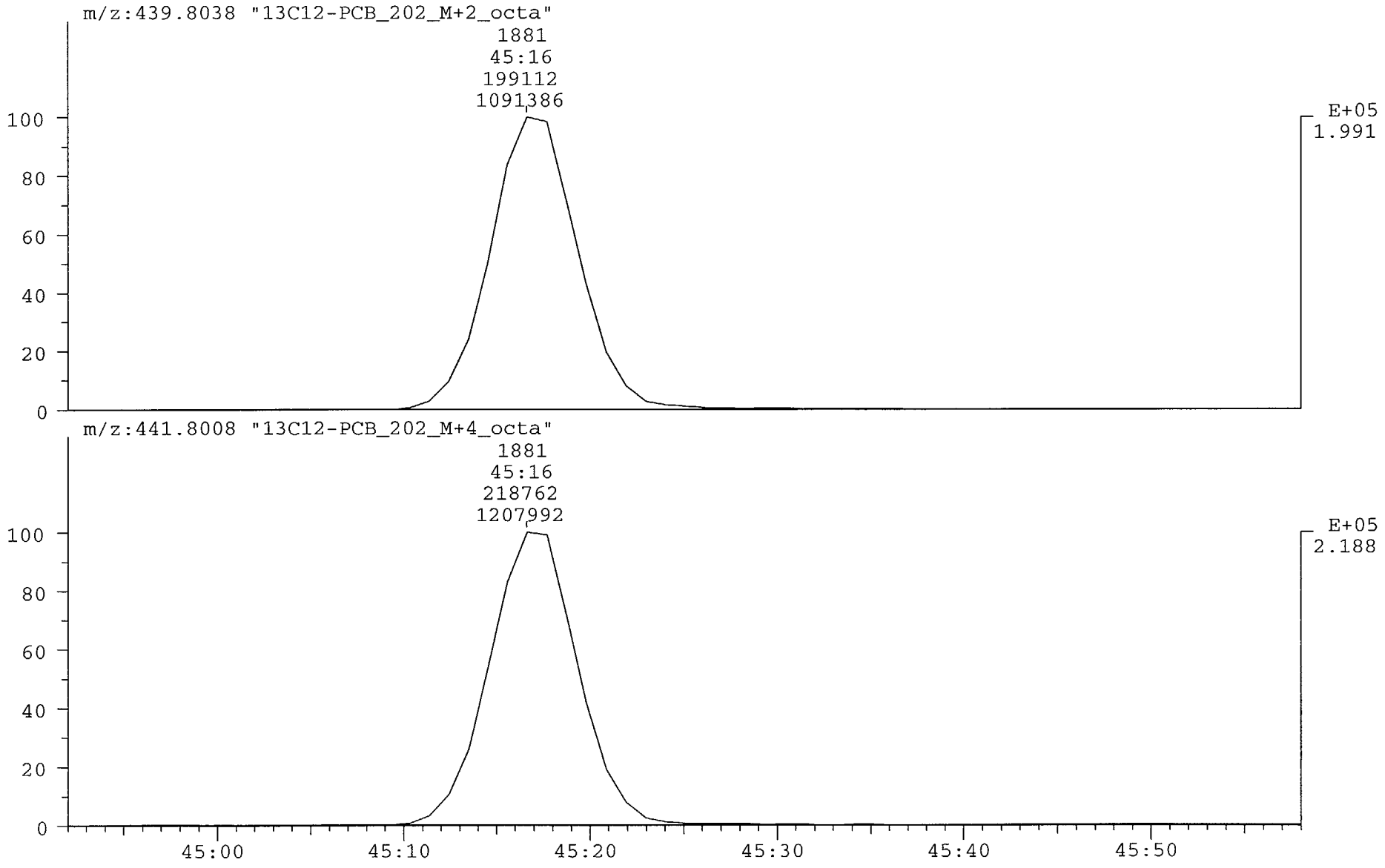
```
CHRO:  aph2w5jc                              18-Apr-06   Elapse:  52:37      2294
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                 Start :  12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C              Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   2270 > 2321         Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



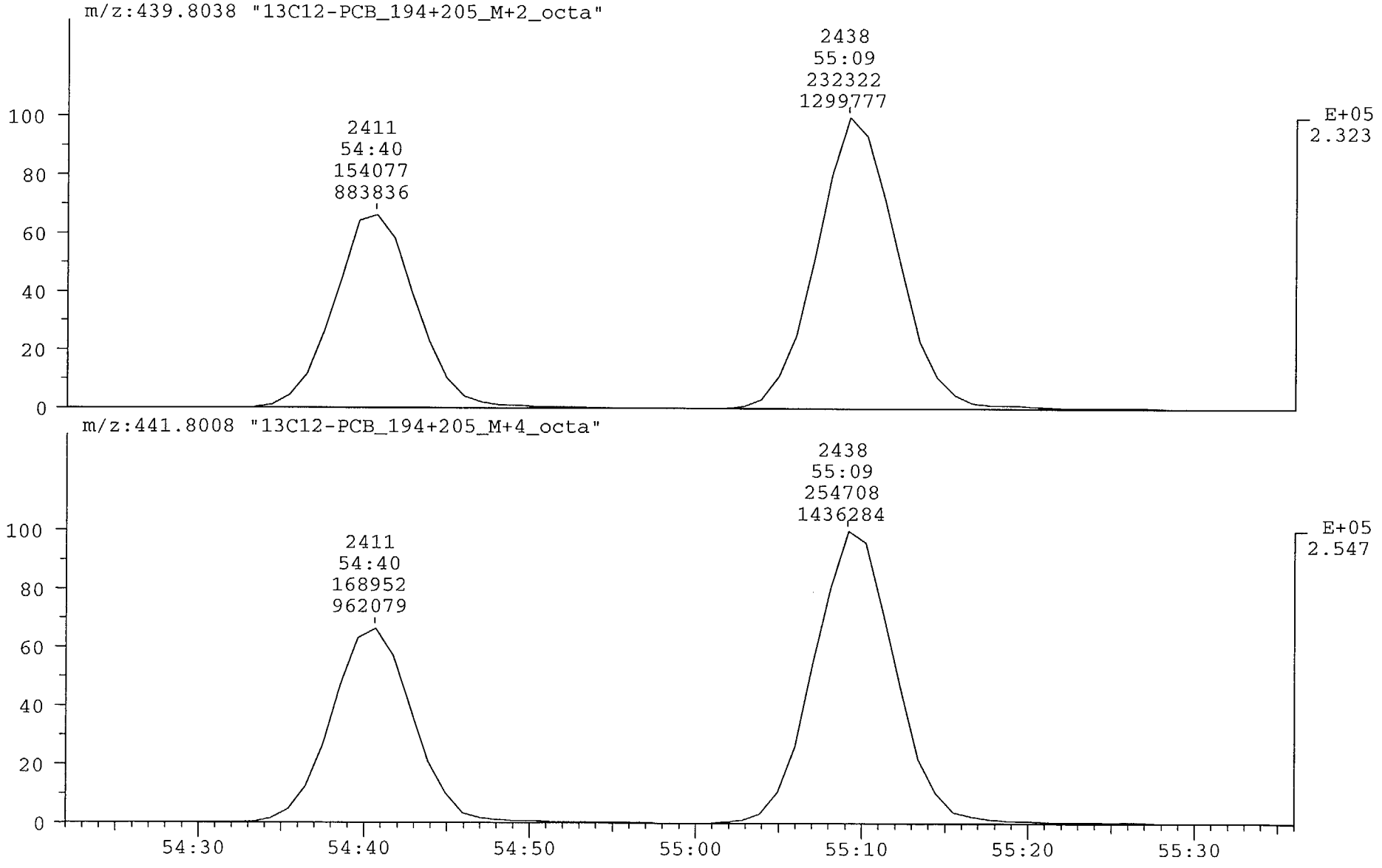
CHRO: aph2w5jc 18-Apr-06 Elapse: 50:20 2169
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1869 > 2465 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



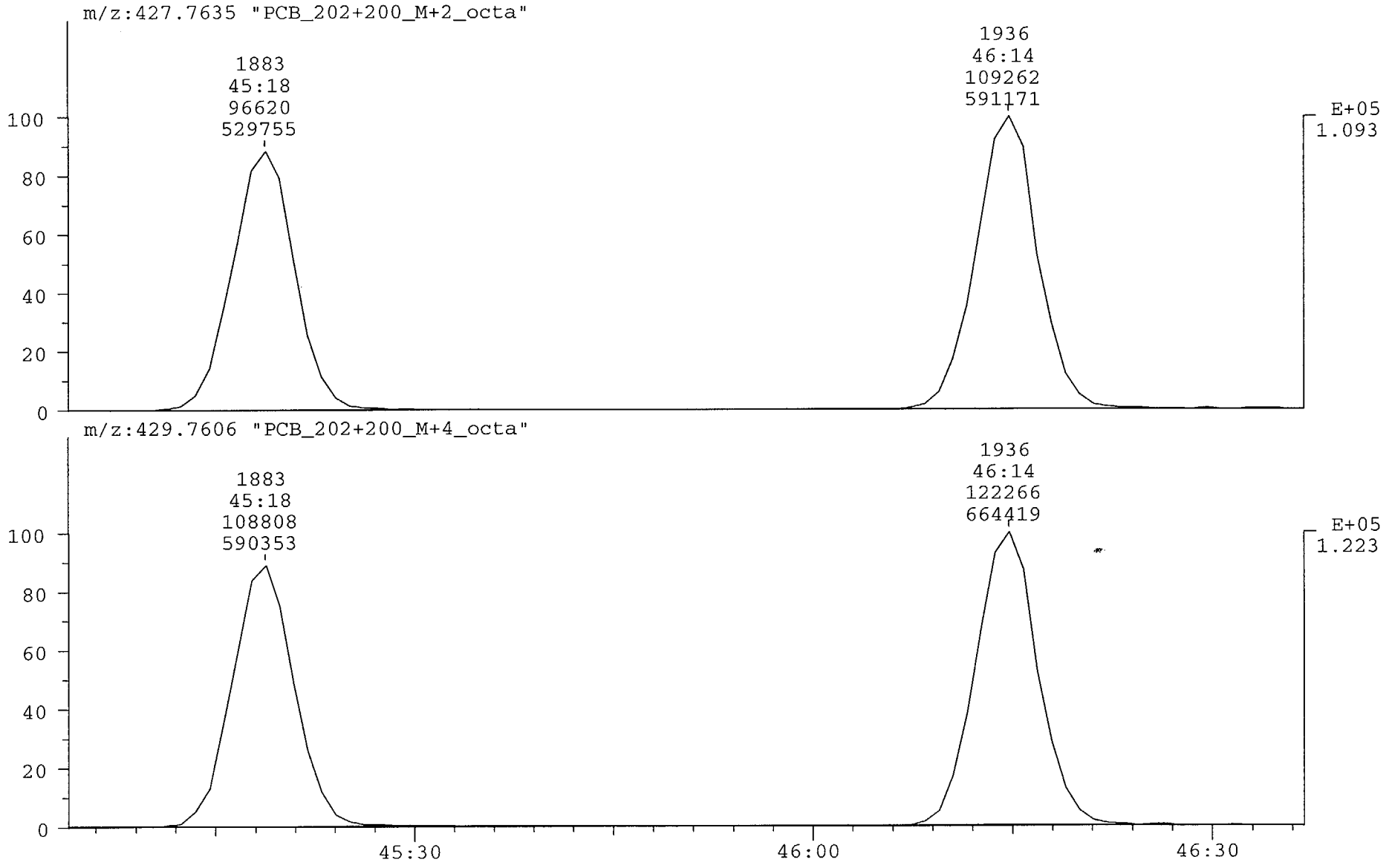
```
CHRO:  aph2w5jc                              18-Apr-06   Elapse:   45:21      1886
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                 Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :   6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C              Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1858 > 1920         Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -3, 3.0
Disp:  Height  Area
```



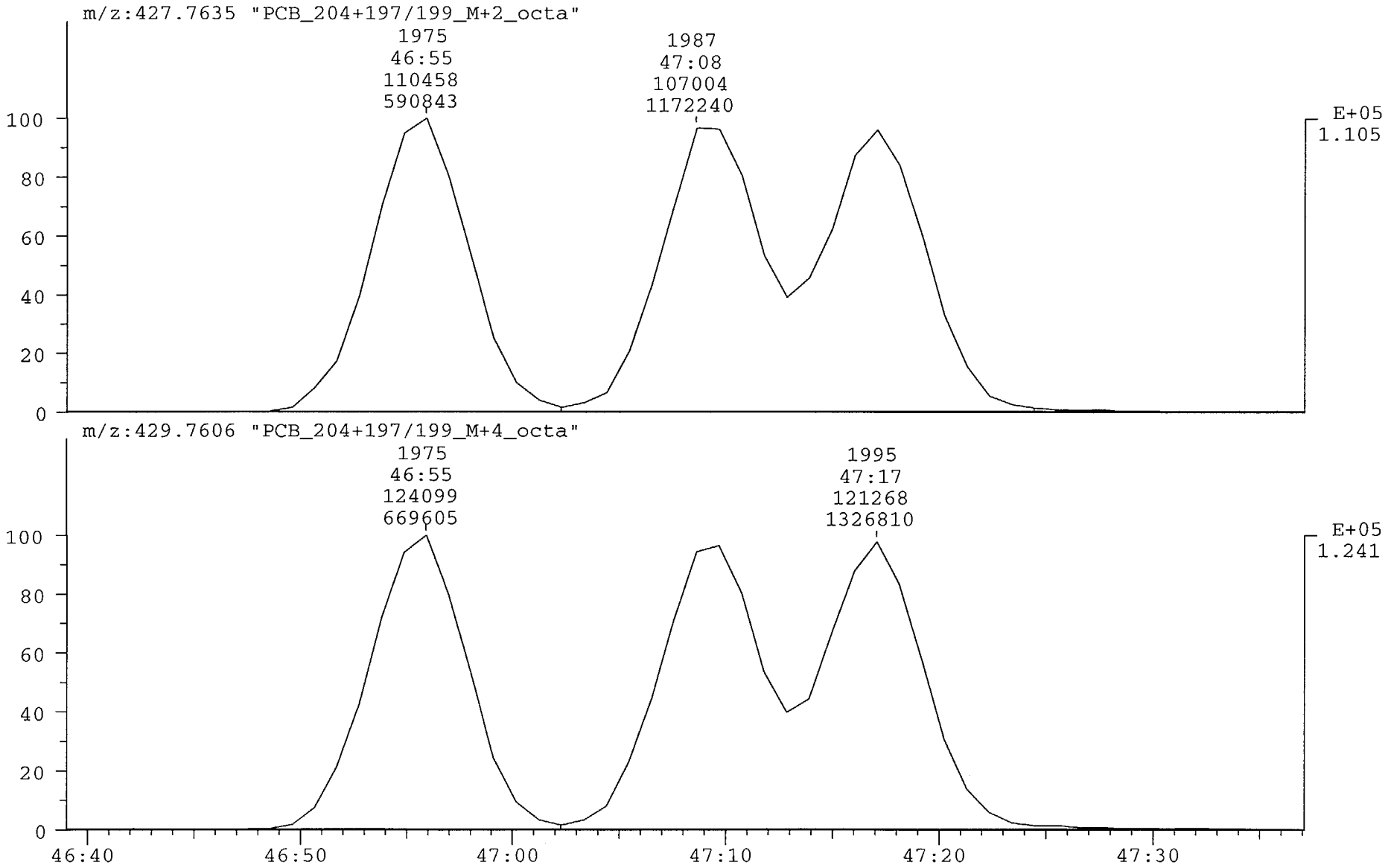
CHRO: aph2w5jc 18-Apr-06 Elapse: 54:58 2428
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2393 > 2463 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



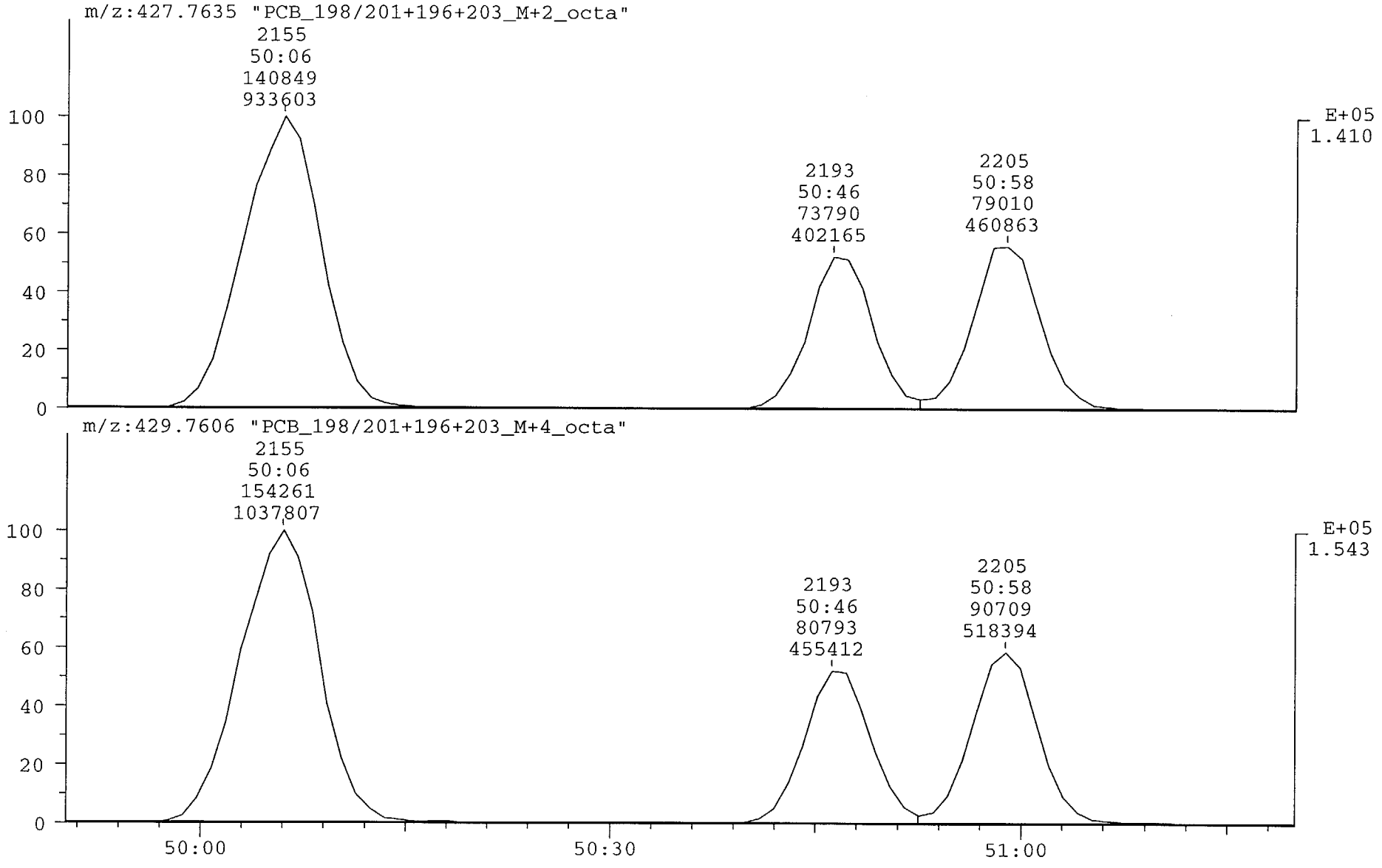
CHRO: aph2w5jc 18-Apr-06 Elapse: 45:54 1917
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1869 > 1957 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



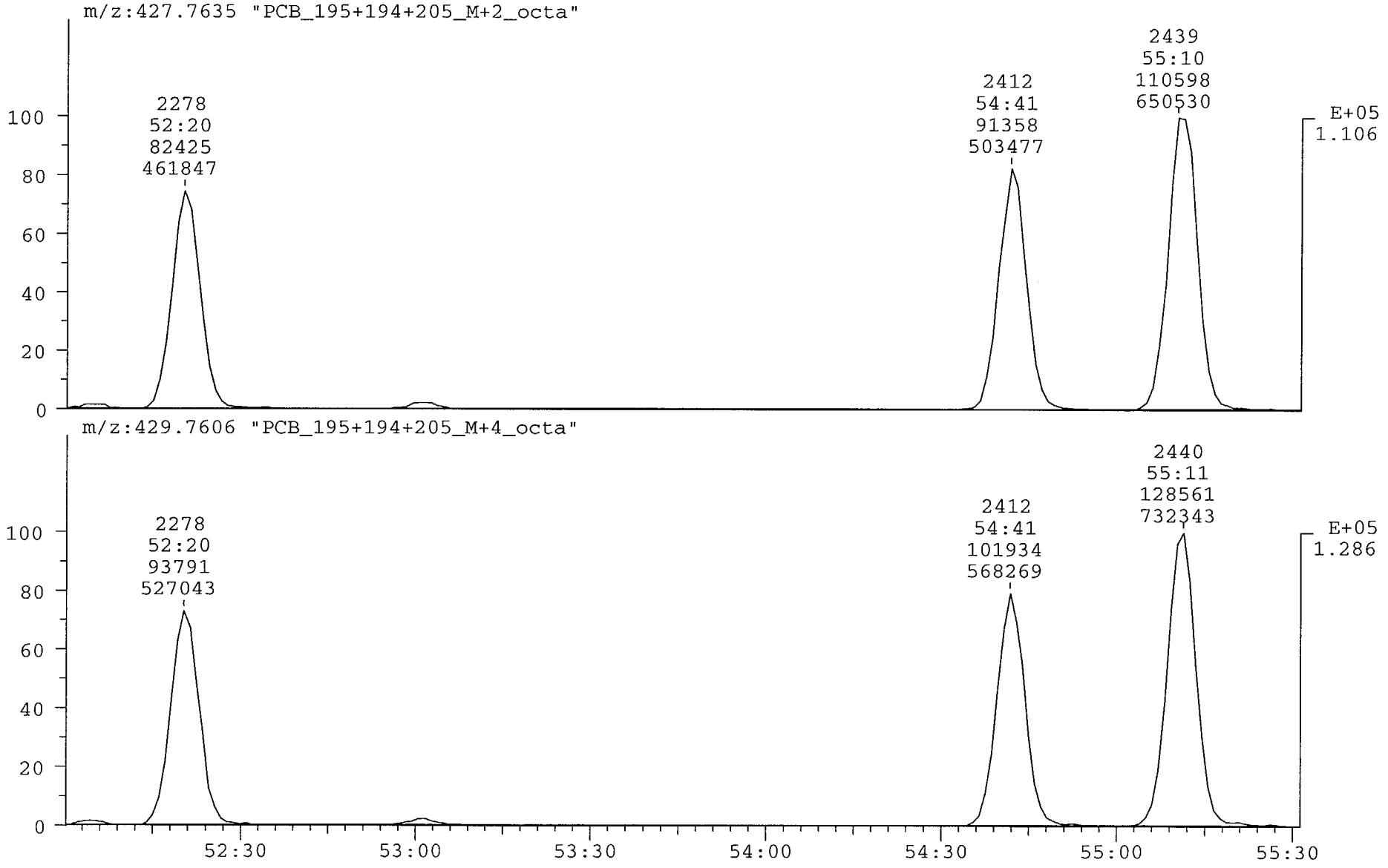
CHRO: aph2w5jc 18-Apr-06 Elapse: 47:00 1979
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1959 > 2014 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



```
CHRO:  aph2w5jc                                  18-Apr-06   Elapse:   50:50      2197
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                     Start :   12:11:08    2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047C                 Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   2140 > 2225             Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                  Label :   -3, 3.0
Disp:  Height  Area
```

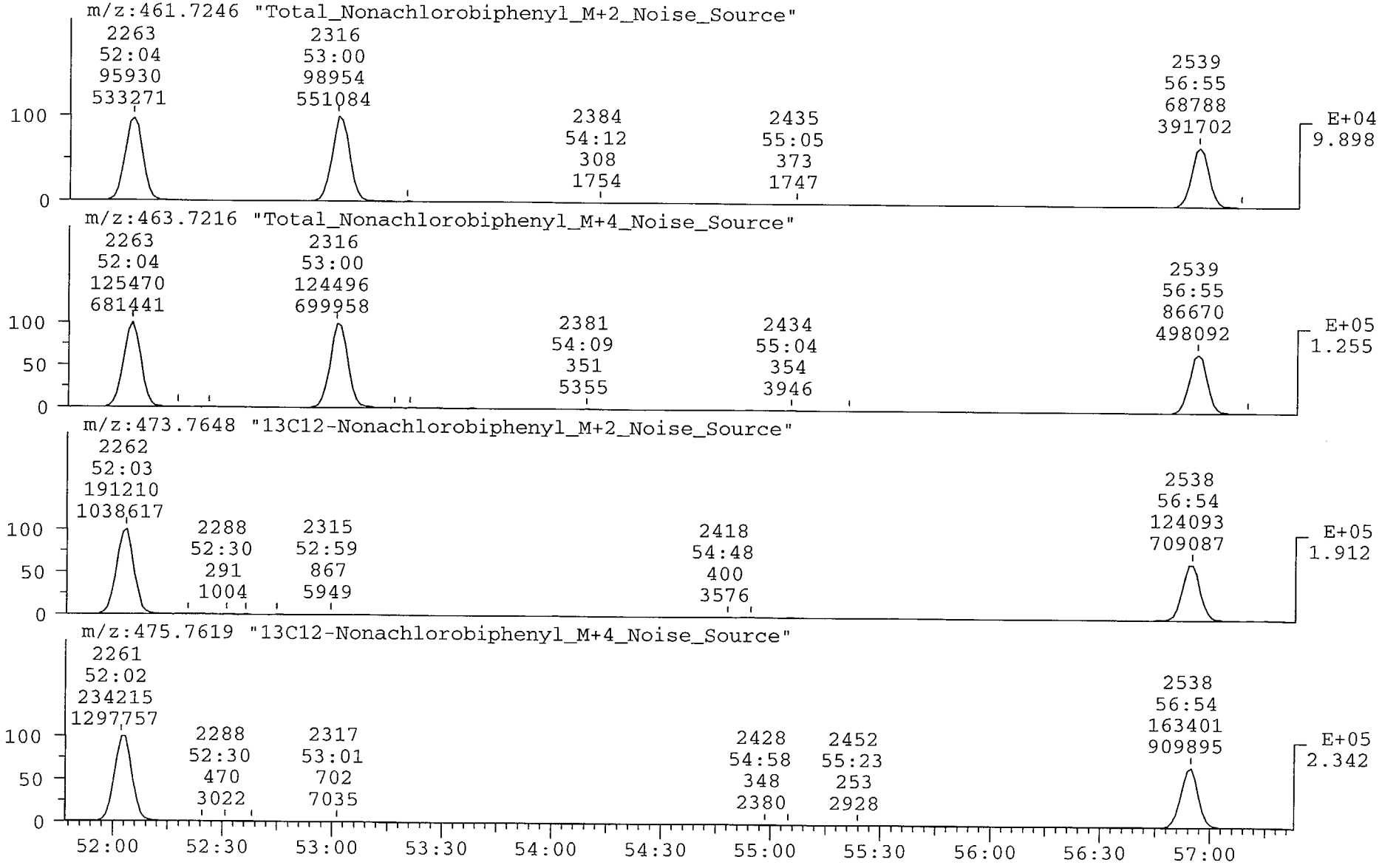


CHRO: aph2w5jc 18-Apr-06 Elapse: 54:43 2414
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2259 > 2459 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

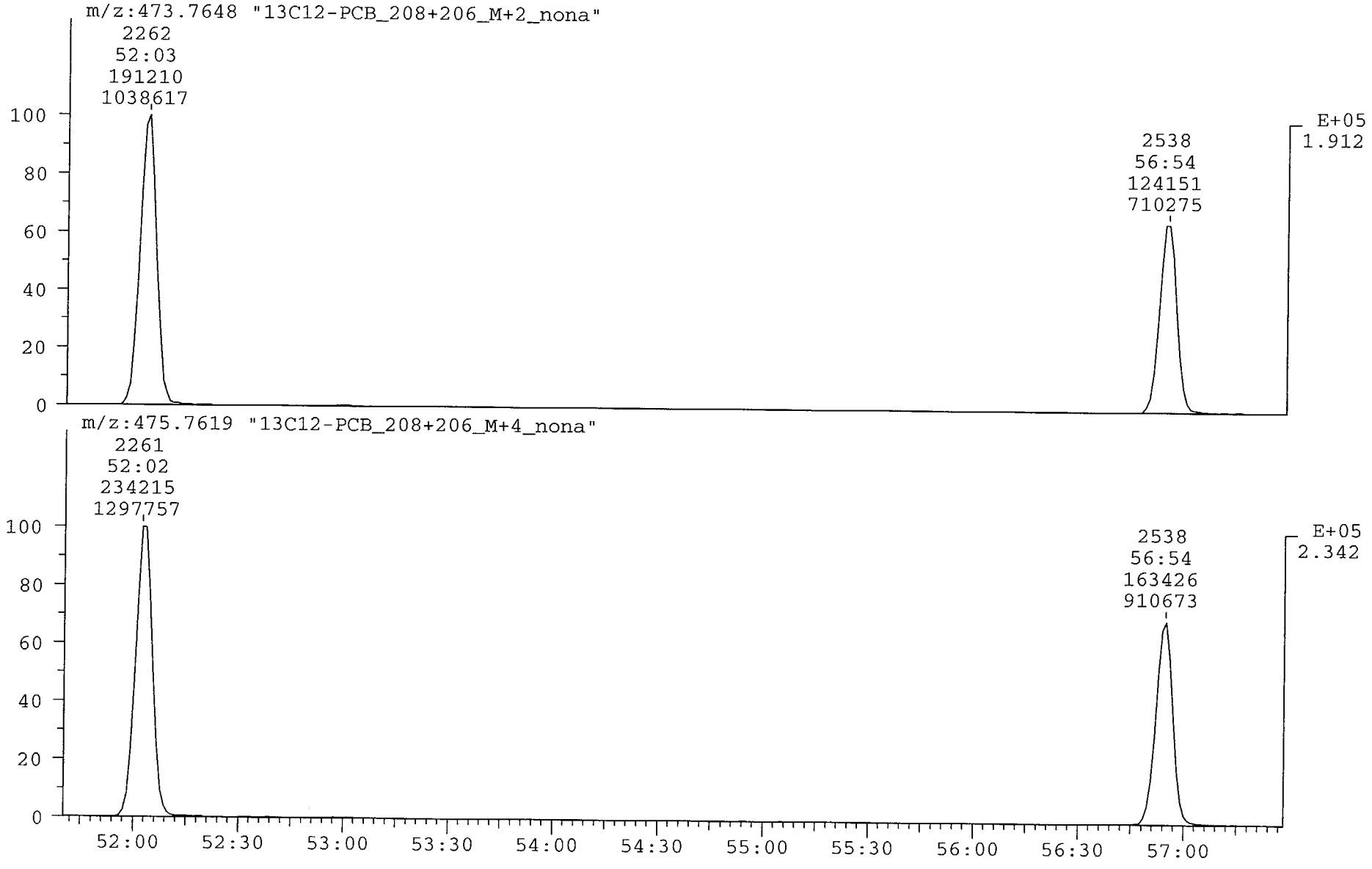


3034

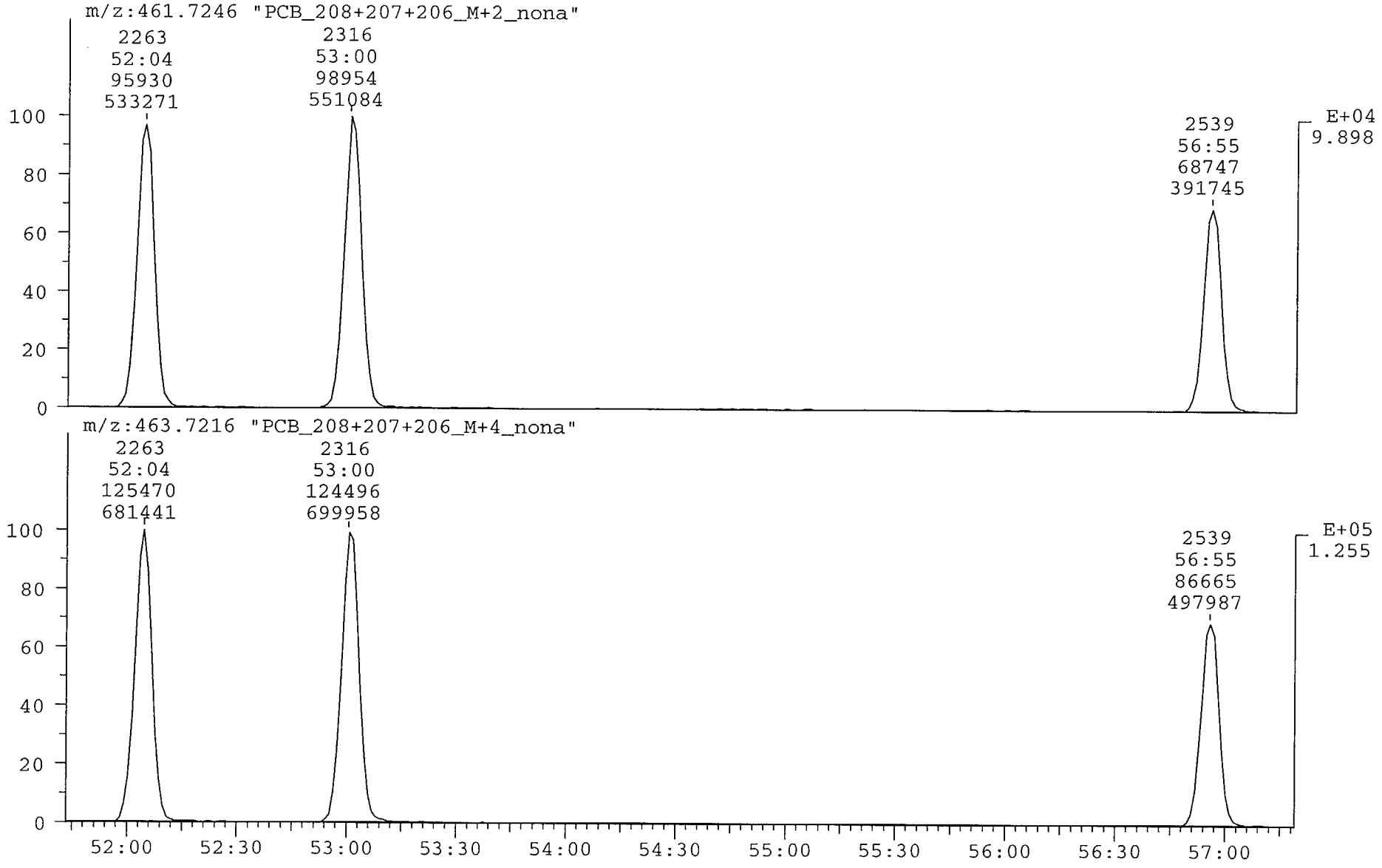
CHRO: aph2w5jc 18-Apr-06 Elapse: 54:35 2406
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2247 > 2565 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



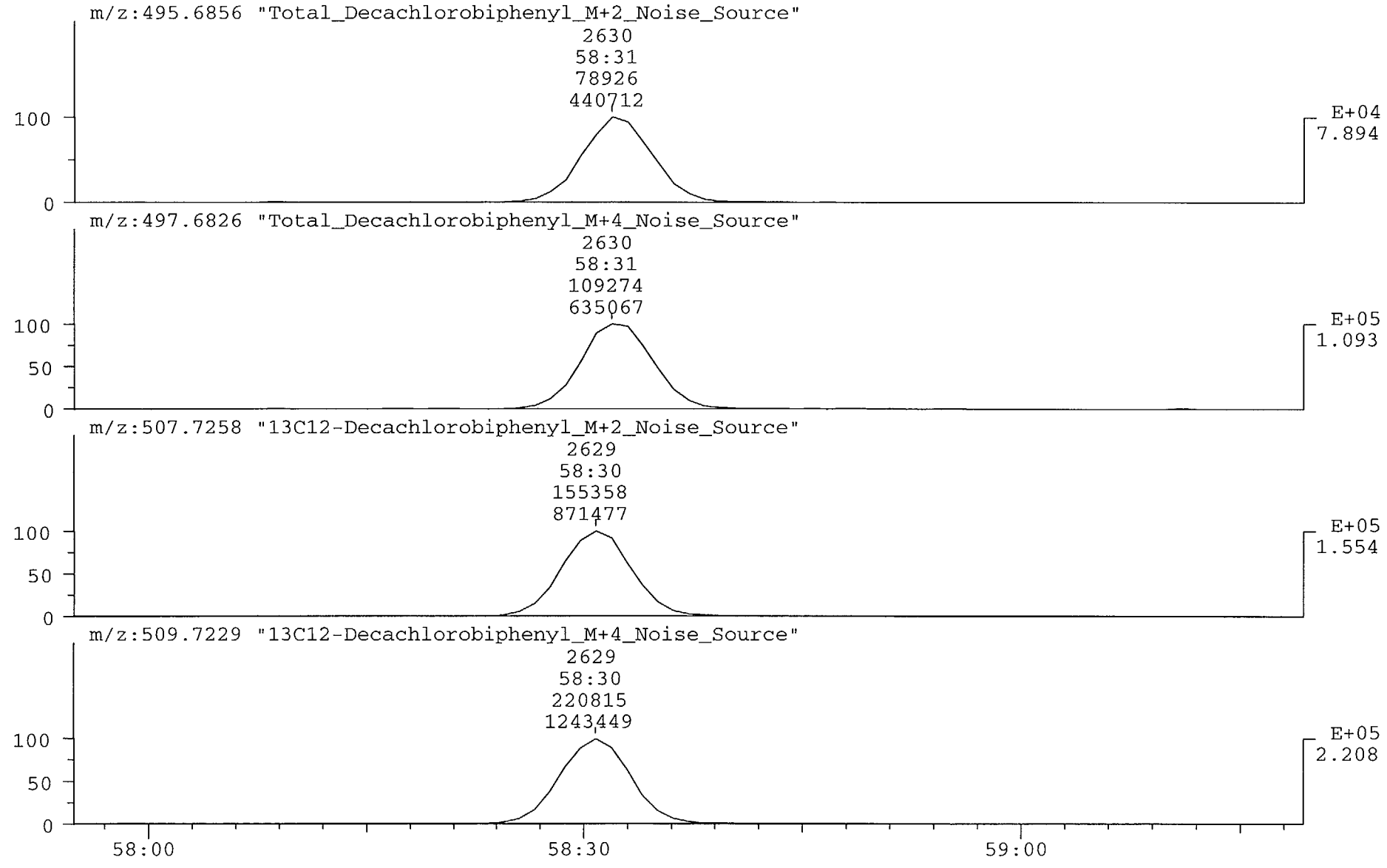
CHRO: aph2w5jc 18-Apr-06 Elapse: 54:34 2405
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2240 > 2570 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



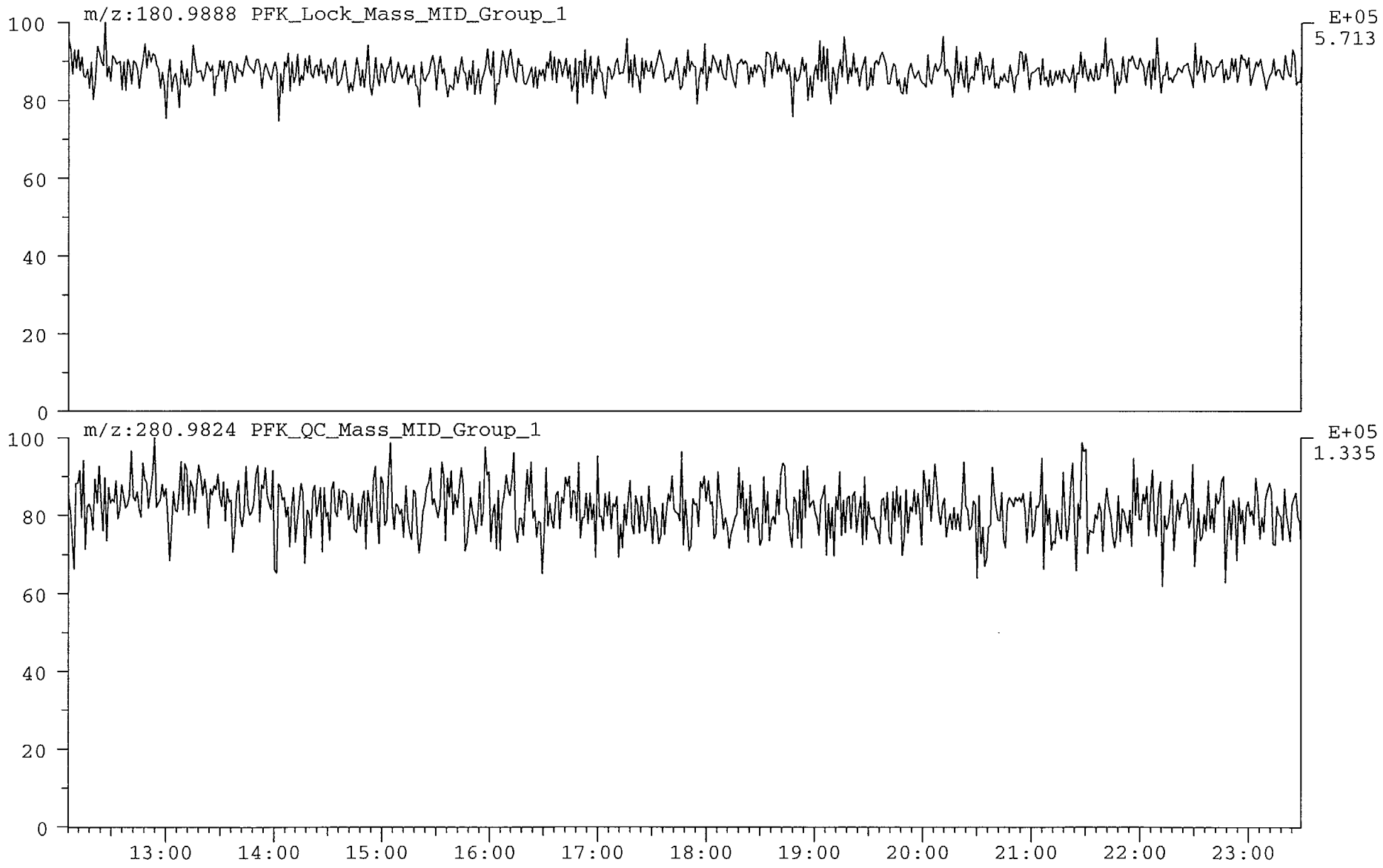
```
CHRO:  aph2w5jc                                  18-Apr-06   Elapse:   54:35      2406
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                     Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :   6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C                  Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   2243 > 2561             Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                  Label :   -3, 3.0
Disp:  Height  Area
```



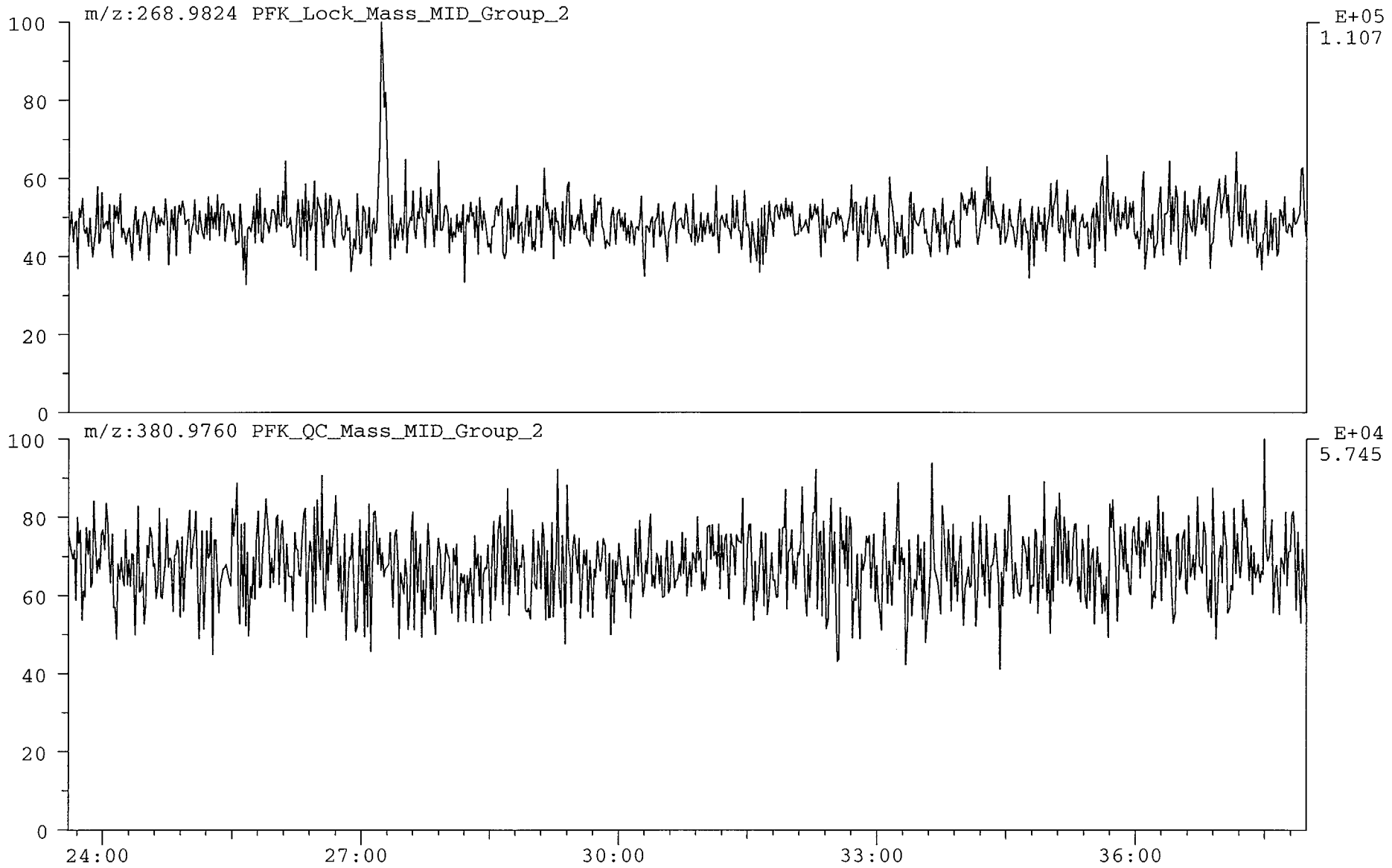
CHRO: aph2w5jc 18-Apr-06 Elapse: 58:37 2635
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2595 > 2675 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



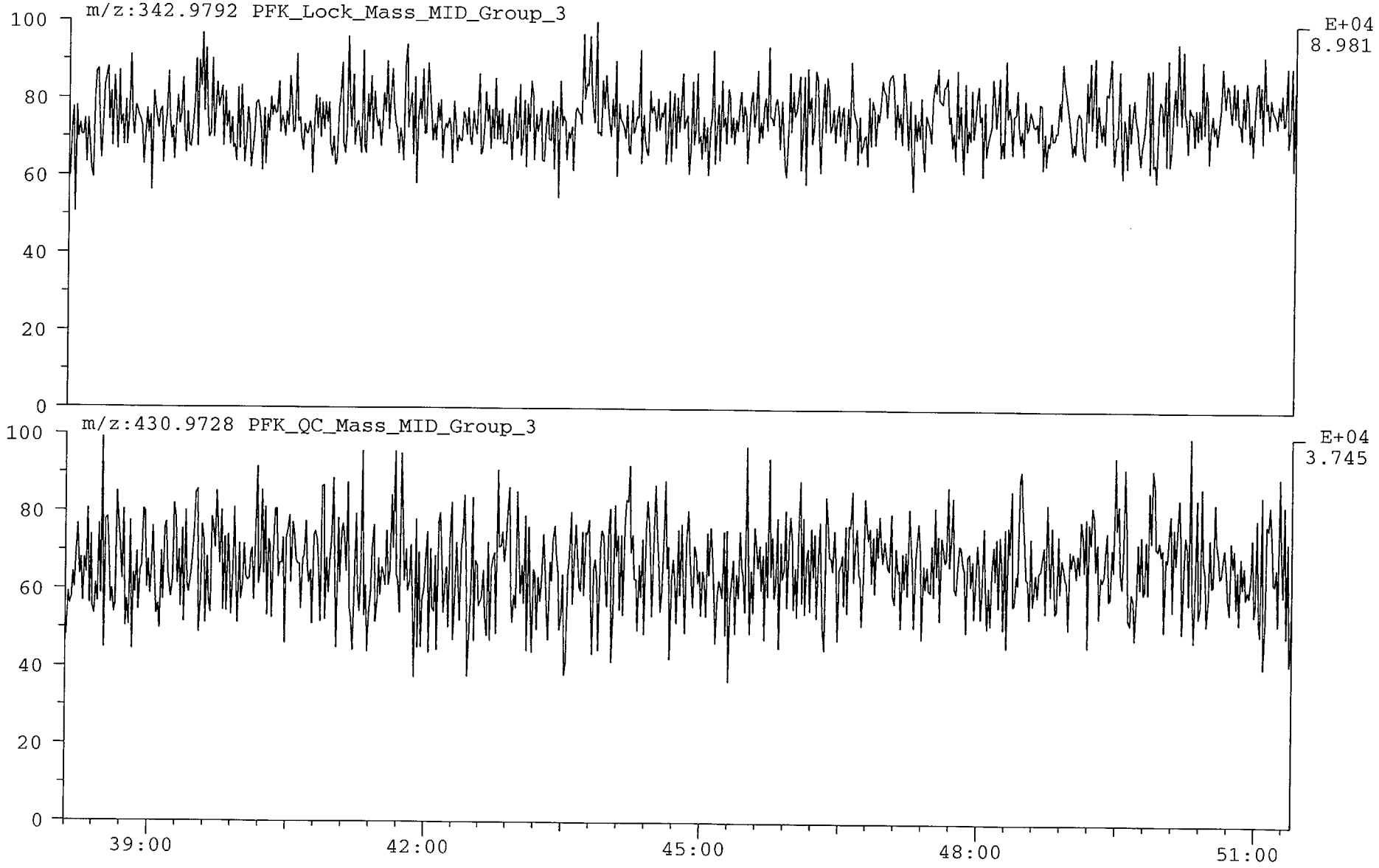
```
CHRO:  aph2w5jc                              18-Apr-06   Elapse:   58:37      2635
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                 Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :   6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C              Inlet :   GC     Vial  4
Peak:  100.00  ppm     Label wndw:   6 > 653              Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   0, 0.0
Disp:  Height  Area
```



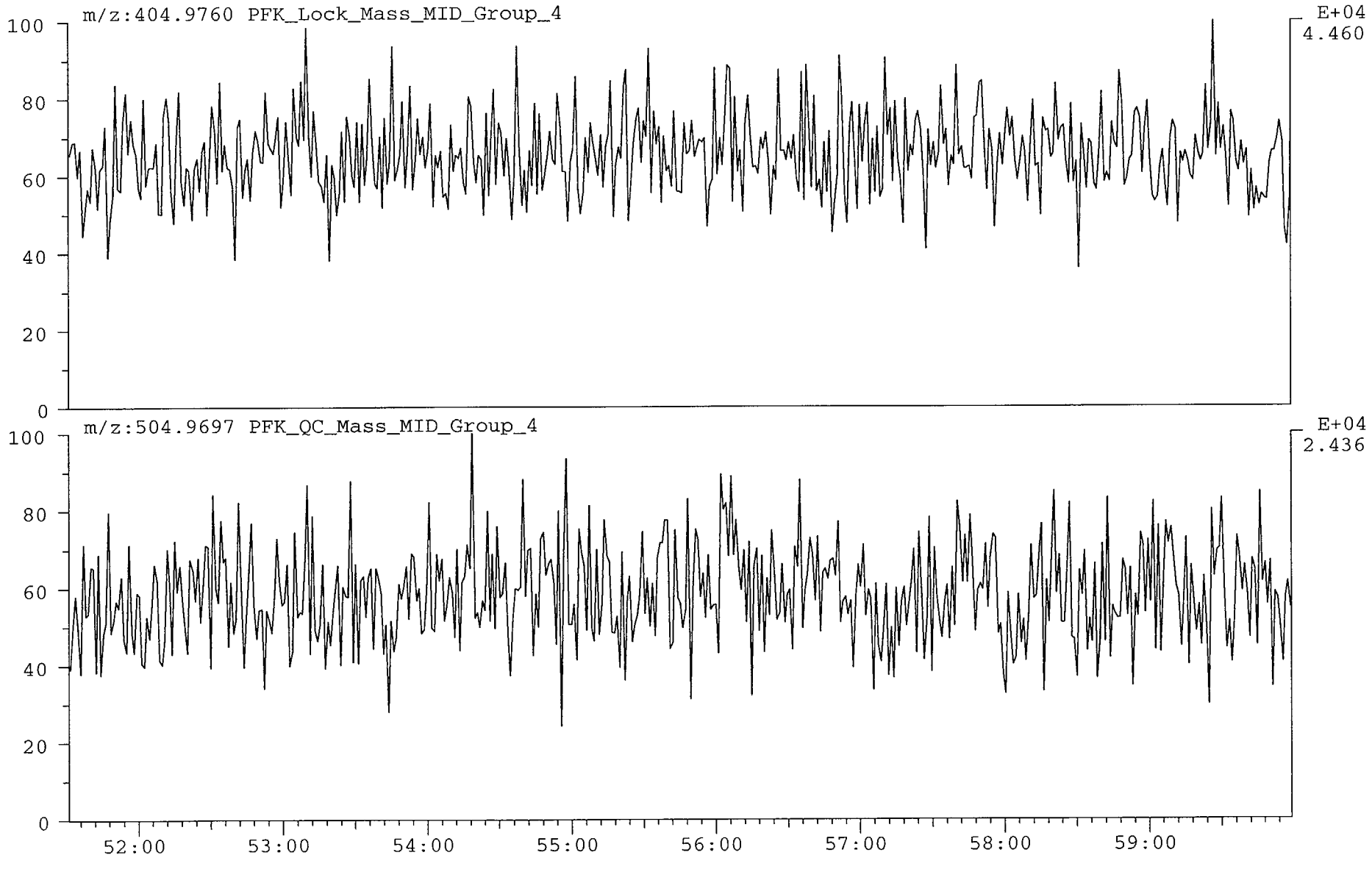
```
CHRO:  aph2w5jc                              18-Apr-06   Elapse:   58:37      2635
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                 Start :   12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047C             Inlet :   GC     Vial   4
Peak:  100.00  ppm     Label wndw:   656 > 1471           Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   0, 0.0
Disp:  Height  Area
```



```
CHRO:  aph2w5jc                                  18-Apr-06   Elapse:  58:37      2635
Samp:  Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1                     Start :  12:11:08   2714
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047C                  Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1474 > 2229             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                  Label :  0, 0.0
Disp:  Height  Area
```



CHRO: aph2w5jc 18-Apr-06 Elapse: 58:37 2635
Samp: Vial 4 WO=h2w5j1ac Meth=IE5 Dil=1 Start : 12:11:08 2714
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047C Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2232 > 2713 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: aph2w5jc
Study: 6100047 (air-2)
Sample: WO=h2w5j1ac Meth=IE5 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: H6D100000-047C
Comments: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 4
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 2 of list 060418
ICL procedure: sleep7x
MID procedure: 1668_rev3

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	12:00 min	11:30 min	23:30 min	1.00 sec
# 2	23:30 min	14:30 min	38:00 min	1.00 sec
# 3	38:00 min	13:25 min	51:25 min	1.00 sec
# 4	51:25 min	8:35 min	60:00 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	
	280 deg	at	59.0 minutes	
	280 deg	at	60.0 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 1.2 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1033.9955
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.6471
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-16.7250
DRAWC	1.0000	DRAWS	0.0050	ECORR	1.0004
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0000
EDACR	23.0000	EDACZ	-13.0000	ELEN	68.2500
EMULT	1.4200	ENS	193.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	149.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	277.0000
FVINLET	259.0000	FVSRC	842.0000	FWIN	0.7000
GCTC	220.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.5196	HVANAL	1381.0000
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	1414.0000	LENSS	8.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2344487.2517

MDACR	23.0000	MRANGE	1033.9955	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2721.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-9.4000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6835	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2254.0000
SHIELDS	0.2000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7100	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	2.2250	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2823.0000
XLENSS	-26.8000	YLENS	3699.0000	YLENSS	-21.0000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 18-Apr-06 12:11:08.9

Autosampler has injected sample from vial 4
MID Time Window 1: Resolution is 8227
MID Time Window 2: Resolution is 8405
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 9203
Analysis stopped at: 18-Apr-06 13:11:11.5 (run time 60.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5jl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/18/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	13:15	**Initial Wt/Vol**	1	**Lims Test Code**	XXSIOIE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Total Monochlorobiphenyl		4511459	1202006			32.357691		32.357691	B	0.0365
13C12-PCB 1	13:08	2525632	733023	1.412	20.00	14.365988	71.83	14.365988		0.0219
13C12-PCB 3	15:34	2562452	624184	1.399	20.00	14.710058	73.55	14.710058		0.0221
PCB 1 (BZ)	13:09	1545130	481372	1.136	10.00	10.768652	107.69	10.768652	B	0.0108
PCB 2 (BZ)	15:22	1400833	351389	1.050	10.00	10.487258	104.87	10.487258	B	0.0126
PCB 3 (BZ)	15:34	1565496	369245	1.101	10.00	11.101781	111.02	11.101781	B	0.0131
Total Dichlorobiphenyl		14442378	2644754			113.191463		113.191463	B	0.364
13C12-PCB 4	15:49	1343422	339321	0.602	20.00	17.910000	89.55	17.910000		0.0269
13C12-PCB 9	17:57	2490896	577596	1.000	20.00	20.000000	100.00	20.000000		0.0162
13C12-PCB 8				1.309	10.00			ND		0.0180
13C12-PCB 15	22:11	2236054	454085	1.069	20.00	16.794473	83.97	16.794473		0.0151
PCB 4 (BZ)	15:50	743931	191670	1.249	10.00	8.865205	88.65	8.865205	B	0.0436
PCB 10 (BZ)	16:01	1201579	308578	1.369	10.00	9.809278	98.09	9.809278	B	0.0341
PCB 9 (BZ)	17:58	1191947	283972	1.492	10.00	8.926334	89.26	8.926334	B	0.0313
PCB 7 (BZ)	18:09	1222329	266202	1.456	10.00	9.379300	93.79	9.379300	B	0.0320
PCB 6 (BZ)	18:25	1251052	278190	1.513	10.00	9.241357	92.41	9.241357	B	0.0308
PCB 5 (BZ)	18:45	1109565	259578	1.332	10.00	9.310956	93.11	9.310956	B	0.0350
PCB 8 (BZ)	18:53	1266002	270739	1.519	10.00	9.316373	93.16	9.316373	B	0.0307
PCB 14 (BZ)	20:37	1424627	290242	1.694	10.00	9.397224	93.97	9.397224	B	0.0275
PCB 11 (BZ)	21:31	1273040	253568	1.390	10.00	10.235862	102.36	10.235862	B	0.0336
PCB 13 (BZ)	21:51	2423635	354623	1.422	20.00	19.042988	95.21	19.042988	BC12	0.0328
PCB 12 (BZ)		2423635		1.422	20.00	19.042988	95.21	19.042988	BC	0.0328
PCB 15 (BZ)	22:12	1334671	242015	1.235	10.00	9.666587	96.67	9.666587	B	0.0330
Total Trichlorobiphenyl		30856120	4886884			250.527360		250.527360	B	1.02
13C12-PCB 19	19:10	1073986	238861	0.546	20.00	17.980492	89.90	17.980492		0.0816
13C12-PCB 32	22:38	2187849	452344	1.000	20.00	20.000000	100.00	20.000000		0.0445
13C12-PCB 31	25:01	2950553	592204	1.000	20.00	20.000000	100.00	20.000000		0.0340
13C12-PCB 28	25:20	2543770	494663	0.935	20.00	18.432986	92.16	18.432986		0.0364
13C12-PCB 37	29:31	2370564	419217	0.867	20.00	18.536311	92.68	18.536311		0.0393
PCB 19 (BZ)	19:12	656619	149280	1.265	10.00	9.668785	96.69	9.668785		0.0748
PCB 30 (BZ)	21:10	1682374	294875	1.669	20.00	18.768043	93.84	18.768043	BC18	0.0567
PCB 18 (BZ)		1682374		1.669	20.00	18.768043	93.84	18.768043	BC	0.0567
PCB 17 (BZ)	21:37	751689	163217	1.407	10.00	9.951379	99.51	9.951379		0.0673
PCB 27 (BZ)	21:51	1039970	223358	2.031	10.00	9.535692	95.36	9.535692		0.0466
PCB 24 (BZ)	22:00	946703	201131	1.904	10.00	9.257277	92.57	9.257277		0.0497
PCB 16 (BZ)	22:08	677055	132730	1.213	10.00	10.391576	103.92	10.391576		0.0780
PCB 32 (BZ)	22:39	1120024	231945	2.154	10.00	9.684271	96.84	9.684271	B	0.0439
PCB 34 (BZ)	23:59	1409101	293496	1.134	10.00	10.486127	104.86	10.486127		0.0476
PCB 23 (BZ)	24:08	1414562	280211	1.119	10.00	10.666416	106.66	10.666416		0.0482
PCB 29 (BZ)		2867827		1.180	20.00	20.504968	102.52	20.504968	BC26	0.0457
PCB 26 (BZ)	24:29	2867827	486411	1.180	20.00	20.504968	102.52	20.504968	BC	0.0457
PCB 25 (BZ)	24:43	1675593	307295	1.321	10.00	10.699246	106.99	10.699246		0.0408
PCB 31 (BZ)	25:03	1503493	288747	1.197	10.00	10.601178	106.01	10.601178	B	0.0451
PCB 28 (BZ)	25:22	2978841	521026	1.197	20.00	20.993069	104.97	20.993069	BC20	0.0450
PCB 20 (BZ)		2978841		1.197	20.00	20.993069	104.97	20.993069	BC	0.0450
PCB 21 (BZ)	25:36	3149776	378038	1.202	20.00	22.101980	110.51	22.101980	BC	0.0448
PCB 33 (BZ)		3149776		1.202	20.00	22.101980	110.51	22.101980	BC21	0.0448
PCB 22 (BZ)	26:01	1479588	282664	1.124	10.00	11.106787	111.07	11.106787	B	0.0480
PCB 36 (BZ)	27:38	1565284	287345	1.107	10.00	11.933510	119.34	11.933510		0.0487

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5jl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/18/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	13:15	**Initial Wt/Vol**	1	**Lims Test Code**	XXSIOIE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 39 (BZ)	28:02	1590699	278585	1.214	10.00	11.050420	110.50	11.050420		0.0444
PCB 38 (BZ)	28:38	1446734	264182	1.149	10.00	10.619412	106.19	10.619412		0.0469
PCB 35 (BZ)	29:07	1480443	249506	1.084	10.00	11.523916	115.24	11.523916		0.0497
PCB 37 (BZ)	29:32	1419745	245755	1.091	10.00	10.983306	109.83	10.983306	B	0.0494
Total Tetrachlorobiphenyl		44192307	5576570			418.727435		418.727435	B	1.82
13C12-PCB 54	22:28	1120013	251447	0.511	20.00	20.034196	100.17	20.034196		0.0584
13C12-PCB 52	27:13	1580967	316049	1.000	20.00	20.000000	100.00	20.000000		0.0427
13C12-PCB 79				1.099	10.00			ND		0.0372
13C12-PCB 81	36:26	1917023	332227	1.295	20.00	18.724115	93.62	18.724115		0.0330
13C12-PCB 77	37:01	1928325	329023	1.318	20.00	18.506916	92.53	18.506916		0.0324
PCB 54 (BZ)	22:29	710512	159428	1.208	10.00	10.501431	105.01	10.501431		0.0739
PCB 50 (BZ)		1712583		0.920	20.00	19.367948	96.84	19.367948	BC	0.0738
PCB 53 (BZ)	24:45	1712583	301575	0.920	20.00	19.367948	96.84	19.367948	BC50	0.0738
PCB 45 (BZ)	25:32	1580122	183965	0.851	20.00	19.317481	96.59	19.317481	C	0.0798
PCB 51 (BZ)		1580122		0.851	20.00	19.317481	96.59	19.317481	C45	0.0798
PCB 46 (BZ)	25:46	717051	136156	0.689	10.00	10.827458	108.27	10.827458		0.0986
PCB 52 (BZ)	27:14	820539	168333	0.909	10.00	9.385599	93.86	9.385599		0.0747
PCB 73 (BZ)	27:24	1832617	221081	0.936	20.00	20.359912	101.80	20.359912	C43	0.0725
PCB 43 (BZ)		1832617		0.936	20.00	20.359912	101.80	20.359912	C	0.0725
PCB 69 (BZ)	27:43	2017558	267872	1.079	20.00	19.458608	97.29	19.458608	C49	0.0630
PCB 49 (BZ)		2017558		1.079	20.00	19.458608	97.29	19.458608	C	0.0630
PCB 48 (BZ)	28:03	802832	160212	0.846	10.00	9.873081	98.73	9.873081		0.0803
PCB 65 (BZ)		2764936		1.004	30.00	28.646754	95.49	28.646754	BC44	0.0676
PCB 47 (BZ)		2764936		1.004	30.00	28.646754	95.49	28.646754	BC44	0.0676
PCB 44 (BZ)	28:19	2764936	452478	1.004	30.00	28.646754	95.49	28.646754	BC	0.0676
PCB 62 (BZ)		3498536		1.279	30.00	28.444872	94.82	28.444872	BC59	0.0531
PCB 75 (BZ)		3498536		1.279	30.00	28.444872	94.82	28.444872	BC59	0.0531
PCB 59 (BZ)	28:38	3498536	527097	1.279	30.00	28.444872	94.82	28.444872	BC	0.0531
PCB 42 (BZ)	28:50	851447	157721	0.838	10.00	10.570373	105.70	10.570373		0.0810
PCB 41 (BZ)		2497094		0.872	30.00	29.798008	99.33	29.798008	C40	0.0779
PCB 71 (BZ)		2497094		0.872	30.00	29.798008	99.33	29.798008	C40	0.0779
PCB 40 (BZ)	29:20	2497094	352505	0.872	30.00	29.798008	99.33	29.798008	C	0.0779
PCB 64 (BZ)	29:35	1298557	234498	1.341	10.00	10.075603	100.76	10.075603		0.0506
PCB 72 (BZ)	30:24	1193400	225339	1.203	10.00	10.315265	103.15	10.315265		0.0564
PCB 68 (BZ)	30:42	1318481	228976	1.294	10.00	10.596645	105.97	10.596645		0.0525
PCB 57 (BZ)	31:08	1163942	219074	1.203	10.00	10.064738	100.65	10.064738		0.0564
PCB 58 (BZ)	31:23	1160008	220666	1.235	10.00	9.771001	97.71	9.771001		0.0550
PCB 67 (BZ)	31:34	1332809	229540	1.394	10.00	9.942084	99.42	9.942084		0.0487
PCB 63 (BZ)	31:51	1212525	224697	1.331	10.00	9.473235	94.73	9.473235		0.0510
PCB 61 (BZ)		4895705		1.280	40.00	39.778403	99.45	39.778403	BC	0.0530
PCB 70 (BZ)		4895705		1.280	40.00	39.778403	99.45	39.778403	BC61	0.0530
PCB 76 (BZ)	32:11	4895705	489240	1.280	40.00	39.778403	99.45	39.778403	BC61	0.0530
PCB 74 (BZ)		4895705		1.280	40.00	39.778403	99.45	39.778403	BC61	0.0530
PCB 66 (BZ)	32:32	1245171	219455	1.254	10.00	10.332795	103.33	10.332795		0.0542
PCB 55 (BZ)	32:41	1260070	230430	1.137	10.00	11.528898	115.29	11.528898		0.0597
PCB 56 (BZ)	33:13	1166358	217284	1.202	10.00	10.091708	100.92	10.091708		0.0565
PCB 60 (BZ)	33:27	1166224	211095	1.128	10.00	10.755613	107.56	10.755613		0.0602
PCB 80 (BZ)	33:50	1265808	230685	1.301	10.00	10.117035	101.17	10.117035		0.0522
PCB 79 (BZ)	35:25	1348355	220096	1.449	10.00	9.682473	96.82	9.682473		0.0469

STL - Knoxville **IsoCalc Preliminary Sample Report**

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

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5j1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/18/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	13:15	**Initial Wt/Vol**	1	**Lims Test Code**	XXSIOIE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 78 (BZ)	36:00	1076176	190059	1.109	10.00	10.096223	100.96	10.096223		0.0612
PCB 81 (BZ)	36:27	1142347	201226	1.251	10.00	9.523193	95.23	9.523193		0.0540
PCB 77 (BZ)	37:02	1140544	201077	1.179	10.00	10.030997	100.31	10.030997		0.0579
Total Pentachlorobiphenyl		41562788	5185428			452.532108		452.532108	B	2.07
13C12-PCB 104	28:11	1755712	344586	1.259	20.00	18.679969	93.40	18.679969		0.0478
13C12-PCB 95				0.738	10.00			ND		0.0655
13C12-PCB 101	34:15	1492531	276785	1.000	20.00	20.000000	100.00	20.000000		0.0602
13C12-PCB 111	36:59	1836967	330697	1.262	20.00	19.503512	97.52	19.503512		0.0477
13C12-PCB 123	39:00	2217745	405059	0.978	20.00	19.619736	98.10	19.619736		0.0426
13C12-PCB 118	39:21	2385818	431306	1.014	20.00	20.355769	101.78	20.355769		0.0411
13C12-PCB 114	39:53	2247649	393590	0.981	20.00	19.824980	99.12	19.824980		0.0425
13C12-PCB 105	40:33	2302787	408719	0.939	20.00	21.216464	106.08	21.216464		0.0444
13C12-PCB 127	42:02	2311759	399730	1.000	20.00	20.000000	100.00	20.000000		0.0417
13C12-PCB 126	43:42	2385195	427925	0.971	20.00	21.257195	106.29	21.257195		0.0429
PCB 104 (BZ)	28:13	970630	188181	1.157	10.00	9.557862	95.58	9.557862		0.0569
PCB 96 (BZ)	28:36	854263	163049	1.047	10.00	9.293711	92.94	9.293711		0.0629
PCB 103 (BZ)	30:35	704487	139128	0.859	10.00	9.338825	93.39	9.338825		0.0767
PCB 94 (BZ)	30:48	631767	123368	0.724	10.00	9.944594	99.45	9.944594		0.0910
PCB 95 (BZ)	31:17	654704	126039	0.817	10.00	9.133838	91.34	9.133838		0.0807
PCB 100 (BZ)	31:30	1379548	223720	0.836	20.00	18.798306	93.99	18.798306	C93	0.0788
PCB 93 (BZ)		1379548		0.836	20.00	18.798306	93.99	18.798306	C	0.0788
PCB 102 (BZ)	31:39	1426485	153911	0.848	20.00	19.154027	95.77	19.154027	C98	0.0777
PCB 98 (BZ)		1426485		0.848	20.00	19.154027	95.77	19.154027	C	0.0777
PCB 88 (BZ)	32:10	1354402	142845	0.791	20.00	19.500964	97.50	19.500964	C	0.0833
PCB 91 (BZ)		1354402		0.791	20.00	19.500964	97.50	19.500964	C88	0.0833
PCB 84 (BZ)	32:24	585000	110881	0.681	10.00	9.778938	97.79	9.778938		0.0967
PCB 89 (BZ)	32:53	685951	129961	0.718	10.00	10.878547	108.79	10.878547		0.0917
PCB 121 (BZ)	33:17	976014	180016	1.140	10.00	9.754731	97.55	9.754731		0.0578
PCB 92 (BZ)	33:40	701584	129979	0.819	10.00	9.753025	97.53	9.753025		0.0804
PCB 113 (BZ)	34:15	2523660	365378	0.979	30.00	29.377847	97.93	29.377847	C90	0.0673
PCB 90 (BZ)		2523660		0.979	30.00	29.377847	97.93	29.377847	C	0.0673
PCB 101 (BZ)		2523660		0.979	30.00	29.377847	97.93	29.377847	C90	0.0673
PCB 83 (BZ)		1327498		0.797	20.00	18.972151	94.86	18.972151	C	0.0826
PCB 99 (BZ)	34:52	1327498	152082	0.797	20.00	18.972151	94.86	18.972151	C83	0.0826
PCB 112 (BZ)	35:01	965363	176660	1.110	10.00	9.907105	99.07	9.907105		0.0593
PCB 109 (BZ)/108 (IUPAC)	35:23	5055944	550212	0.991	60.00	58.091976	96.82	58.091976	BC86	0.0664
PCB 86 (BZ)		5055944		0.991	60.00	58.091976	96.82	58.091976	BC	0.0664
PCB 119 (BZ)		5055944		0.991	60.00	58.091976	96.82	58.091976	BC86	0.0664
PCB 97 (BZ)		5055944		0.991	60.00	58.091976	96.82	58.091976	BC86	0.0664
PCB 125 (BZ)		5055944		0.991	60.00	58.091976	96.82	58.091976	BC86	0.0664
PCB 87 (BZ)		5055944		0.991	60.00	58.091976	96.82	58.091976	BC86	0.0664
PCB 117 (BZ)		2481016		0.989	30.00	28.568981	95.23	28.568981	C85	0.0666
PCB 116 (BZ)		2481016		0.989	30.00	28.568981	95.23	28.568981	C85	0.0666
PCB 85 (BZ)	36:08	2481016	292584	0.989	30.00	28.568981	95.23	28.568981	C	0.0666
PCB 110 (BZ)		1970765		1.142	20.00	19.657796	98.29	19.657796	C	0.0577
PCB 115 (BZ)	36:23	1970765	197246	1.142	20.00	19.657796	98.29	19.657796	C110	0.0577
PCB 82 (BZ)	36:39	591737	101011	0.679	10.00	9.927154	99.27	9.927154		0.0970
PCB 111 (BZ)	37:01	1030721	192376	1.195	10.00	9.825018	98.25	9.825018		0.0551
PCB 120 (BZ)	37:30	989647	186601	1.179	10.00	9.563300	95.63	9.563300		0.0559

STL - Knoxville **IsoCalc Preliminary Sample Report**

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

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5jl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/18/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	13:15	**Initial Wt/Vol**	1	**Lims Test Code**	XXSIOIE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 124 (BZ)	38:39	2414660	436233	0.995	20.00	21.027573	105.14	21.027573	C108	0.0552
PCB 108 (BZ)/107 (IUPAC)		2414660		0.995	20.00	21.027573	105.14	21.027573	C	0.0552
PCB 107 (BZ)/109 (IUPAC)	38:55	1244453	220547	1.015	10.00	10.626940	106.27	10.626940		0.0541
PCB 123 (BZ)	39:01	1247783	231693	1.110	10.00	10.141674	101.42	10.141674		0.0505
PCB 106 (BZ)	39:10	1189182	216457	0.963	10.00	10.701487	107.01	10.701487		0.0570
PCB 118 (BZ)	39:22	1346315	227263	1.021	10.00	11.050282	110.50	11.050282		0.0515
PCB 122 (BZ)	39:43	1124848	204860	0.957	10.00	10.187013	101.87	10.187013		0.0574
PCB 114 (BZ)	39:55	1293905	224694	1.173	10.00	9.819500	98.19	9.819500		0.0492
PCB 105 (BZ)	40:34	1296068	227229	1.130	10.00	9.962812	99.63	9.962812		0.0492
PCB 127 (BZ)	42:04	1161006	206350	1.066	10.00	9.439374	94.39	9.439374		0.0515
PCB 126 (BZ)	43:43	1383382	231621	1.074	10.00	10.796754	107.97	10.796754		0.0494
Total Hexachlorobiphenyl		38407635	4937497			439.940175		439.940175	B	2.86
13C12-PCB 155	33:59	1761268	342187	1.013	20.00	23.299060	116.50	23.299060		0.0574
13C12-PCB 153				0.845	10.00			ND		0.0664
13C12-PCB 138	42:30	1672517	294474	1.000	20.00	20.000000	100.00	20.000000		0.0547
13C12-PCB 167	45:33	1980091	348439	1.250	20.00	18.941299	94.71	18.941299		0.0437
13C12-PCB 156	46:44	4106003	532898	1.237	40.00	39.695237	99.24	39.695237		0.0442
13C12-PCB 157								ND		0.000000
13C12-PCB 169	50:03	1646296	266446	1.164	20.00	16.913372	84.57	16.913372		0.0470
PCB 155 (BZ)	34:02	970944	187748	1.131	10.00	9.752554	97.53	9.752554		0.0645
PCB 152 (BZ)	34:15	937332	177796	1.067	10.00	9.978754	99.79	9.978754		0.0684
PCB 150 (BZ)	34:25	973953	179362	1.059	10.00	10.443256	104.43	10.443256		0.0688
PCB 136 (BZ)	34:48	912828	173899	1.009	10.00	10.273712	102.74	10.273712		0.0723
PCB 145 (BZ)	35:05	961851	175675	1.021	10.00	10.698529	106.99	10.698529		0.0714
PCB 148 (BZ)	36:37	679436	123500	0.738	10.00	10.451609	104.52	10.451609		0.0988
PCB 151 (BZ)	37:14	1313844	150529	0.732	20.00	20.379801	101.90	20.379801	C135	0.0996
PCB 135 (BZ)		1313844		0.732	20.00	20.379801	101.90	20.379801	C	0.0996
PCB 154 (BZ)	37:28	794706	149349	0.899	10.00	10.035966	100.36	10.035966		0.0811
PCB 144 (BZ)	37:49	702876	130223	0.757	10.00	10.540265	105.40	10.540265		0.0963
PCB 147 (BZ)	38:11	1645473	303851	0.825	20.00	20.627930	103.14	20.627930	BC	0.105
PCB 149 (BZ)		1645473		0.825	20.00	20.627930	103.14	20.627930	BC147	0.105
PCB 134 (BZ)		1444607		0.694	20.00	21.525043	107.63	21.525043	C	0.125
PCB 143 (BZ)	38:29	1444607	156259	0.694	20.00	21.525043	107.63	21.525043	C134	0.125
PCB 139 (BZ)	38:47	1639151	285548	0.828	20.00	20.480164	102.40	20.480164	C	0.105
PCB 140 (BZ)		1639151		0.828	20.00	20.480164	102.40	20.480164	C139	0.105
PCB 131 (BZ)	39:00	700606	129454	0.687	10.00	10.558175	105.58	10.558175		0.127
PCB 142 (BZ)	39:10	720264	128483	0.705	10.00	10.572050	105.72	10.572050		0.123
PCB 132 (BZ)	39:28	724415	128453	0.708	10.00	10.581157	105.81	10.581157		0.123
PCB 133 (BZ)	39:57	755404	137763	0.777	10.00	10.053068	100.53	10.053068		0.112
PCB 165 (BZ)	40:22	1114734	208456	0.989	10.00	11.655644	116.56	11.655644		0.0879
PCB 146 (BZ)	40:37	882678	171283	0.862	10.00	10.591774	105.92	10.591774		0.101
PCB 161 (BZ)	40:45	1128578	198107	1.128	10.00	10.353013	103.53	10.353013		0.0771
PCB 153 (BZ)	41:16	2092947	314919	1.070	20.00	20.242818	101.21	20.242818	C	0.0813
PCB 168 (BZ)		2092947		1.070	20.00	20.242818	101.21	20.242818	C153	0.0813
PCB 141 (BZ)	41:27	833740	142072	0.738	10.00	11.683496	116.83	11.683496		0.118
PCB 130 (BZ)	41:52	708571	125198	0.694	10.00	10.557621	105.58	10.557621		0.125
PCB 137 (BZ)		1910482		0.944	20.00	20.931092	104.66	20.931092	C	0.0921
PCB 164 (BZ)	42:13	1910482	189347	0.944	20.00	20.931092	104.66	20.931092	C137	0.0921
PCB 138 (BZ)	42:32	3687216	381245	0.922	40.00	41.384652	103.46	41.384652	BC129	0.0943

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5j1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/18/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	13:15	**Initial Wt/Vol**	1	**Lims Test Code**	XXSIOIE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 163 (BZ)		3687216		0.922	40.00	41.384652	103.46	41.384652	BC129	0.0943
PCB 129 (BZ)		3687216		0.922	40.00	41.384652	103.46	41.384652	BC	0.0943
PCB 160 (BZ)		3687216		0.922	40.00	41.384652	103.46	41.384652	BC129	0.0943
PCB 158 (BZ)	42:55	1256650	213082	1.197	10.00	10.864765	108.65	10.864765		0.0727
PCB 166 (BZ)	43:48	2035285	323006	0.941	20.00	22.382718	111.91	22.382718	C128	0.0924
PCB 128 (BZ)		2035285		0.941	20.00	22.382718	111.91	22.382718	C	0.0924
PCB 159 (BZ)	44:48	1075687	189351	1.100	10.00	10.116910	101.17	10.116910		0.0790
PCB 162 (BZ)	45:05	1200737	206601	1.110	10.00	11.188753	111.89	11.188753		0.0783
PCB 167 (BZ)	45:34	1146501	205820	1.150	10.00	10.073954	100.74	10.073954		0.0623
PCB 156 (BZ)	46:45	2330596	296036	1.113	20.00	20.391018	101.96	20.391018	C	0.0841
PCB 157 (BZ)		2330596		1.113	20.00	20.391018	101.96	20.391018	C156	0.0841
PCB 169 (BZ)	50:04	1125543	178074	1.294	10.00	10.569914	105.70	10.569914		0.0724
Total Heptachlorobiphenyl		19943972	2895853			240.640143		240.640143		1.47
13C12-PCB 188	39:50	1872518	343320	1.268	20.00	19.039003	95.20	19.039003		0.0429
13C12-PCB 178	42:56	1212342	225042	0.858	20.00	18.217789	91.09	18.217789		0.0634
13C12-PCB 180	48:06	1551173	276871	1.000	20.00	20.000000	100.00	20.000000		0.0544
13C12-PCB 170	49:23	1281134	226045	0.798	20.00	20.703060	103.52	20.703060		0.0681
13C12-PCB 189	52:34	2198531	383779	1.748	20.00	18.704407	93.52	18.704407		0.0358
PCB 188 (BZ)	39:51	982703	185030	1.072	10.00	9.789034	97.89	9.789034		0.0557
PCB 179 (BZ)	40:13	945415	170427	1.196	10.00	10.029641	100.30	10.029641		0.0602
PCB 184 (BZ)	40:44	908509	170721	1.185	10.00	9.726362	97.26	9.726362		0.0608
PCB 176 (BZ)	41:06	977040	176457	1.264	10.00	9.804017	98.04	9.804017		0.0570
PCB 186 (BZ)	41:35	941772	170502	1.204	10.00	9.923922	99.24	9.923922		0.0598
PCB 178 (BZ)	42:57	685173	125067	0.868	10.00	10.015329	100.15	10.015329		0.0830
PCB 175 (BZ)	43:36	765789	138824	0.934	10.00	10.400000	104.00	10.400000		0.0771
PCB 187 (BZ)	43:53	810620	149857	1.011	10.00	10.166313	101.66	10.166313		0.0712
PCB 182 (BZ)	44:05	789055	139736	0.989	10.00	10.119658	101.20	10.119658		0.0728
PCB 183 (BZ)	44:30	1466993	138218	0.939	20.00	19.825079	99.13	19.825079	C	0.0767
PCB 185 (BZ)		1466993		0.939	20.00	19.825079	99.13	19.825079	C183	0.0767
PCB 174 (BZ)	44:45	725674	128939	0.912	10.00	10.097226	100.97	10.097226		0.0790
PCB 177 (BZ)	45:12	663707	117093	0.866	10.00	9.721167	97.21	9.721167		0.0832
PCB 181 (BZ)	45:35	740150	134122	0.961	10.00	9.765401	97.65	9.765401		0.0749
PCB 171 (BZ)		1309727		0.828	20.00	20.066211	100.33	20.066211	C	0.0870
PCB 173 (BZ)	45:49	1309727	226488	0.828	20.00	20.066211	100.33	20.066211	C171	0.0870
PCB 172 (BZ)	47:28	637376	115251	0.829	10.00	9.746600	97.47	9.746600		0.0868
PCB 192 (BZ)	47:46	893484	159811	1.115	10.00	10.166169	101.66	10.166169		0.0646
PCB 193 (BZ)	48:05	1748292	228341	1.112	20.00	19.933143	99.67	19.933143	C180	0.0647
PCB 180 (BZ)		1748292		1.112	20.00	19.933143	99.67	19.933143	C	0.0647
PCB 191 (BZ)	48:30	996482	174236	1.264	10.00	9.995821	99.96	9.995821		0.0570
PCB 170 (BZ)	49:26	659465	116468	1.040	10.00	9.899326	98.99	9.899326		0.0872
PCB 190 (BZ)	49:58	1056566	166589	1.213	10.00	11.051056	110.51	11.051056		0.0594
PCB 189 (BZ)	52:35	1239980	218505	1.085	10.00	10.398668	103.99	10.398668		0.0492
Total Octachlorobiphenyl		9822845	1559985			127.600205		127.600205		0.563
13C12-PCB 202	45:16	1656821	312023	0.910	20.00	23.470071	117.35	23.470071		0.0583
13C12-PCB 194	54:40	1344979	240686	1.000	20.00	20.000000	100.00	20.000000		0.0611
13C12-PCB 205	55:09	1947697	349923	1.413	20.00	20.493251	102.47	20.493251		0.0432
PCB 202 (BZ)	45:18	818955	146568	0.986	10.00	10.021489	100.21	10.021489		0.0518
PCB 200 (BZ)/201 (IUPAC)	46:14	910525	166430	1.114	10.00	9.862269	98.62	9.862269		0.0459
PCB 204 (BZ)	46:55	938437	170612	1.050	10.00	10.788097	107.88	10.788097		0.0487

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5j1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/18/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	13:15	**Initial Wt/Vol**	1	**Lims Test Code**	XXSIOIE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	DCG				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 197 (BZ)		1780730		1.067	20.00	20.139649	100.70	20.139649	C	0.0479
PCB 199 (BZ)/200 (IUPAC)	47:17	1780730	165871	1.067	20.00	20.139649	100.70	20.139649	C197	0.0479
PCB 198 (BZ)	50:06	1510340	225454	0.737	20.00	24.725373	123.63	24.725373	C	0.0693
PCB 201 (BZ)/199 (IUPAC)		1510340		0.737	20.00	24.725373	123.63	24.725373	C198	0.0693
PCB 196 (BZ)	50:46	639655	118540	0.742	10.00	10.406718	104.07	10.406718		0.0689
PCB 203 (BZ)	50:57	703635	123047	0.820	10.00	10.357519	103.58	10.357519		0.0623
PCB 195 (BZ)	52:20	737005	128540	0.719	10.00	10.519642	105.20	10.519642		0.0634
PCB 194 (BZ)	54:42	781333	132549	0.788	10.00	10.184583	101.85	10.184583		0.0579
PCB 205 (BZ)	55:10	1002230	182374	0.971	10.00	10.594866	105.95	10.594866		0.0469
Total Nonachlorobiphenyl		2479983	436938			29.951736		29.951736		0.138
13C12-PCB 208	52:02	1721317	316889	1.130	20.00	22.651623	113.26	22.651623		0.0515
13C12-PCB 206	56:54	1199602	216282	0.773	20.00	23.063165	115.32	23.063165		0.0752
PCB 208 (BZ)	52:04	889443	160342	1.041	10.00	9.926332	99.26	9.926332		0.0411
PCB 207 (BZ)	53:00	925372	159682	1.284	10.00	9.870034	98.70	9.870034		0.0396
PCB 206 (BZ)	56:56	665168	116914	1.092	10.00	10.155370	101.55	10.155370		0.0574
13C12-PCB 209	58:30	1553759	281382	0.834	20.00	27.710574	138.55	27.710574		0.0586
PCB 209 (BZ)	58:32	794953	138512	1.053	10.00	9.718365	97.18	9.718365		0.0403

STL - Knoxville

IsoCalc Preliminary Peak Report

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

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5jl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/18/06 13:15	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOIE01
Instrument	M1D	**Extract Vol**	200 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	275	175	110	70	1.57 *	/
	PCB 1 (BZ)	13:09	13:07	2	1189545	355585	369821	111551	3.35	ABV/ABV
	PCB 2 (BZ)	15:22	15:21	1	1069842	330991	268855	82534	3.23	ABV/ABV
	PCB 3 (BZ)	15:34	15:32	2	1195844	369652	284400	84845	3.24	AVV/AVV
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**	
	Noise	00:00	00:00	0	293	600	117	240	0.49 *	/
	13C12-PCB 1	13:08	13:07	1	1928103	597529	560615	172408	3.23	ABV/AVV
	13C12-PCB 3	15:34	15:31	3	1963510	598942	479196	144988	3.28	ABV/ABV
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**	
	Noise	00:00	00:00	0	380	545	152	218	0.70 *	/
	PCB 4 (BZ)	15:50	15:49	1	459092	284839	118242	73428	1.61	ABV/ABV
	PCB 10 (BZ)	16:01	16:01	0	730059	471520	188718	119860	1.55	AVV/AVV
	PCB 9 (BZ)	17:58	17:59	-1	730026	461921	177250	106722	1.58	ABV/ABV
	PCB 7 (BZ)	18:09	18:09	0	744638	477691	162195	104007	1.56	AVV/AVV
	PCB 6 (BZ)	18:25	18:25	0	765605	485447	173257	104933	1.58	AVV/AVB
	PCB 5 (BZ)	18:45	18:45	0	679508	430057	160291	99287	1.58	AVV/ABV
	PCB 8 (BZ)	18:53	18:53	0	778829	487173	169408	101331	1.60	AVB/AVB
	PCB 14 (BZ)	20:37	20:38	-1	877983	546644	180455	109787	1.61	ABV/ABV
	PCB 11 (BZ)	21:31	21:32	-1	781122	491918	156294	97274	1.59	ABV/ABV
	PCB 13 (BZ)	21:51	21:48	3	1485241	938394	217563	137060	1.58	AVV/AVV
	PCB 15 (BZ)	22:12	22:09	3	809106	525565	145566	96449	1.54	AVV/AVV
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**	
	Noise	00:00	00:00	0	278	190	111	76	1.46	/
	13C12-PCB 4	15:49	15:48	1	823615	519807	208927	130394	1.58	AVV/ABV
	13C12-PCB 9	17:57	17:57	0	1537443	953453	359417	218179	1.61	ABV/AVV
	13C12-PCB 15	22:11	22:09	2	1370234	865820	277567	176518	1.58	ABV/ABV
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**	
	Noise	00:00	00:00	0	598	533	239	213	1.12	/
	PCB 19 (BZ)	19:12	19:11	1	335387	321232	77532	71748	1.04	ABV/ABB
	PCB 30 (BZ)	21:10	21:11	-1	868351	814023	151984	142891	1.07	ABV/ABV
	PCB 17 (BZ)	21:37	21:37	0	387821	363868	84226	78991	1.07	ABV/ABV
	PCB 27 (BZ)	21:51	21:52	-1	541889	498081	114450	108908	1.09	AVV/AVV
	PCB 24 (BZ)	22:00	22:00	0	481246	465457	103837	97294	1.03	AVV/AVV
	PCB 16 (BZ)	22:08	22:07	1	344759	332296	67321	65409	1.04	AVB/AVV
	PCB 32 (BZ)	22:39	22:42	-3	572280	547744	118515	113430	1.04	ABV/ABV
	PCB 34 (BZ)	23:59	24:01	-2	721793	687308	150862	142634	1.05	ABV/ABV
	PCB 23 (BZ)	24:08	24:10	-2	724716	689846	142980	137231	1.05	AVB/AVB
	PCB 26 (BZ)	24:29	24:30	-1	1462790	1405037	247229	239182	1.04	ABV/ABV
	PCB 25 (BZ)	24:43	24:43	0	857208	818385	158550	148745	1.05	AVV/AVV
	PCB 31 (BZ)	25:03	25:04	-1	774868	728625	146571	142176	1.06	AVV/AVV
	PCB 28 (BZ)	25:22	25:22	0	1530881	1447960	266699	254327	1.06	AVV/AVV
	PCB 21 (BZ)	25:36	25:33	3	1643630	1506146	190719	187319	1.09	AVV/AVV
	PCB 22 (BZ)	26:01	26:01	0	758102	721486	147046	135618	1.05	AVV/AVB

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	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5j1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/18/06 13:15	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOIE01
Instrument	M1D	**Extract Vol**	200 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)	27:38	27:39	-1	797902	767382	145953	141392	1.04	AVV/AVV	
	PCB 39 (BZ)	28:02	28:01	1	808093	782606	144461	134124	1.03	AVV/AVV	
	PCB 38 (BZ)	28:38	28:38	0	747037	699697	135141	129041	1.07	ABV/AVV	
	PCB 35 (BZ)	29:07	29:06	1	754604	725839	126704	122802	1.04	AVV/AVV	
	PCB 37 (BZ)	29:32	29:31	1	717733	702012	125086	120669	1.02	AVV/AVV	
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	543	465	217	186	1.17	/	
	13C12-PCB 19	19:10	19:11	-1	566213	507773	127199	111662	1.12	AVV/ABV	
	13C12-PCB 32	22:38	22:39	-1	1126016	1061833	236305	216039	1.06	ABV/AVV	
	13C12-PCB 31	25:01	25:02	-1	1523578	1426975	307763	284441	1.07	ABV/ABV	
	13C12-PCB 28	25:20	25:21	-1	1312050	1231720	257900	236763	1.07	AVV/AVV	
	13C12-PCB 37	29:31	29:30	1	1230994	1139570	217711	201506	1.08	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	558	565	223	226	0.99 *	/	
	PCB 54 (BZ)	22:29	22:29	0	309355	401157	68942	90486	0.77	AVV/AVV	
	PCB 53 (BZ)	24:45	24:46	-1	754360	958223	134353	167222	0.79	ABV/ABV	
	PCB 45 (BZ)	25:32	25:29	3	699856	880266	81661	102304	0.80	AVV/AVV	
	PCB 46 (BZ)	25:46	25:47	-1	316315	400736	61069	75087	0.79	AVV/AVV	
	PCB 52 (BZ)	27:14	27:16	-2	358680	461859	73650	94683	0.78	ABV/ABV	
	PCB 73 (BZ)	27:24	27:25	-1	805895	1026722	95409	125672	0.78	AVV/AVV	
	PCB 69 (BZ)	27:43	27:42	1	889641	1127917	119481	148391	0.79	AVB/AVB	
	PCB 48 (BZ)	28:03	28:04	-1	353117	449715	70530	89682	0.79	ABV/ABV	
	PCB 44 (BZ)	28:19	28:16	3	1228314	1536622	202679	249799	0.80	AVV/AVV	
	PCB 59 (BZ)	28:38	28:37	1	1530531	1968005	232874	294223	0.78	AVV/AVV	
	PCB 42 (BZ)	28:50	28:50	0	378990	472457	69754	87967	0.80	AVB/AVB	
	PCB 40 (BZ)	29:20	29:20	0	1105067	1392027	153139	199366	0.79	ABV/ABV	
	PCB 64 (BZ)	29:35	29:34	1	573539	725018	103491	131007	0.79	AVV/AVV	
	PCB 72 (BZ)	30:24	30:27	-3	531180	662220	101607	123732	0.80	AVV/ABV	
	PCB 68 (BZ)	30:42	30:44	-2	579751	738730	102865	126111	0.78	AVB/AVB	D
	PCB 57 (BZ)	31:08	31:11	-3	511629	652313	96457	122617	0.78	ABV/ABV	D
	PCB 58 (BZ)	31:23	31:24	-1	508840	651168	96194	124472	0.78	AVV/AVV	
	PCB 67 (BZ)	31:34	31:34	0	580230	752579	98764	130776	0.77	AVV/AVV	
	PCB 63 (BZ)	31:51	31:52	-1	536576	675949	102379	122318	0.79	AVV/AVV	
	PCB 76 (BZ)	32:11	32:12	-1	2151871	2743834	212866	276374	0.78	AVV/AVV	M
	PCB 66 (BZ)	32:32	32:33	-1	550388	694783	95608	123847	0.79	AVV/AVV	
	PCB 55 (BZ)	32:41	32:43	-2	546443	713627	99863	130567	0.77	AVV/AVV	
	PCB 56 (BZ)	33:13	33:13	0	508407	657951	94437	122847	0.77	ABV/ABV	
	PCB 60 (BZ)	33:27	33:27	0	508814	657410	91826	119269	0.77	AVV/AVV	
	PCB 80 (BZ)	33:50	33:50	0	557854	707954	100399	130286	0.79	AVV/AVV	
	PCB 79 (BZ)	35:25	35:25	0	595499	752856	97599	122497	0.79	ABV/ABV	
	PCB 78 (BZ)	36:00	36:00	0	485172	591004	85334	104725	0.82	ABV/ABV	
	PCB 81 (BZ)	36:27	36:27	0	505256	637091	88983	112243	0.79	AVV/AVV	
	PCB 77 (BZ)	37:02	37:00	2	507803	632741	89849	111228	0.80	ABV/ABV	
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**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	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5jl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/18/06 13:15	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOIE01
Instrument	M1D	**Extract Vol**	200 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
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	343	333	137	133	1.03 *	/	
	13C12-PCB 54	22:28	22:28	0	501950	618063	113264	138183	0.81	ABV/ABV	
	13C12-PCB 52	27:13	27:14	-1	698858	882109	142741	173308	0.79	AVV/AVV	
	13C12-PCB 81	36:26	36:25	1	848091	1068932	147306	184921	0.79	ABV/ABV	
	13C12-PCB 77	37:01	36:59	2	855884	1072441	145067	183956	0.80	ABV/AVV	
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	595	540	238	216	1.10 *	/	
	PCB 104 (BZ)	28:13	28:14	-1	585917	384713	116876	71305	1.52	AVV/AVV	
	PCB 96 (BZ)	28:36	28:39	-3	518433	335830	100738	62311	1.54	AVV/AVV	
	PCB 103 (BZ)	30:35	30:38	-3	431568	272919	85689	53439	1.58	ABV/ABV	
	PCB 94 (BZ)	30:48	30:51	-3	382804	248963	74183	49185	1.54	AVV/AVB	
	PCB 95 (BZ)	31:17	31:19	-2	402088	252616	78509	47530	1.59	ABV/ABV	
	PCB 100 (BZ)	31:30	31:32	-2	845112	534436	136277	87443	1.58	AVV/AVV	
	PCB 102 (BZ)	31:39	31:40	-1	876651	549834	94212	59699	1.59	AVV/AVB	
	PCB 88 (BZ)	32:10	32:07	3	828835	525567	86899	55946	1.58	ABV/ABV	
	PCB 84 (BZ)	32:24	32:24	0	359251	225749	67371	43510	1.59	AVB/AVB	
	PCB 89 (BZ)	32:53	32:55	-2	416118	269833	79070	50891	1.54	AVV/AVV	
	PCB 121 (BZ)	33:17	33:20	-3	594975	381039	109334	70682	1.56	AVV/AVV	
	PCB 92 (BZ)	33:40	33:43	-3	427079	274505	80864	49115	1.56	AVB/AVB	
	PCB 113 (BZ)	34:15	34:15	0	1543433	980227	223253	142125	1.57	ABV/ABV	
	PCB 99 (BZ)	34:52	34:55	-3	827141	500357	91878	60204	1.65	ABV/ABV	
	PCB 112 (BZ)	35:01	35:01	0	576972	388391	106472	70188	1.49	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	35:23	35:23	0	3086367	1969577	335311	214901	1.57	ABV/ABV	
	PCB 85 (BZ)	36:08	36:10	-2	1525371	955645	180804	111780	1.60	ABV/ABV	
	PCB 115 (BZ)	36:23	36:24	-1	1205139	765626	120404	76842	1.57	AVV/AVV	
	PCB 82 (BZ)	36:39	36:40	-1	362017	229720	61574	39437	1.58	AVB/AVB	D
	PCB 111 (BZ)	37:01	37:02	-1	629085	401636	118234	74142	1.57	ABV/ABV	
	PCB 120 (BZ)	37:30	37:31	-1	606519	383128	115185	71416	1.58	AVV/AVB	D
	PCB 124 (BZ)	38:39	38:41	-2	1461995	952665	264670	171563	1.53	ABV/ABV	
	PCB 107 (BZ)/109 (IUPAC	38:55	38:55	0	762576	481877	133406	87141	1.58	AVV/AVV	
	PCB 123 (BZ)	39:01	39:02	-1	763101	484682	142482	89211	1.57	AVV/AVV	
	PCB 106 (BZ)	39:10	39:11	-1	731385	457797	132033	84424	1.60	AVV/AVV	
	PCB 118 (BZ)	39:22	39:23	-1	824572	521743	139766	87497	1.58	AVB/AVB	
	PCB 122 (BZ)	39:43	39:44	-1	694977	429871	127294	77566	1.62	ABV/ABV	
	PCB 114 (BZ)	39:55	39:56	-1	789960	503945	136576	88118	1.57	AVV/AVV	
	PCB 105 (BZ)	40:34	40:35	-1	789035	507033	138737	88492	1.56	ABV/AVV	
	PCB 127 (BZ)	42:04	42:03	1	711701	449305	125711	80639	1.58	AVV/AVV	
	PCB 126 (BZ)	43:43	43:40	3	862734	520648	140925	90696	1.66	AVV/AVV	
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	435	398	174	159	1.09 *	/	
	13C12-PCB 104	28:11	28:13	-2	1085841	669871	212844	131742	1.62	AVV/AVV	
	13C12-PCB 101	34:15	34:17	-2	907482	585049	166411	110374	1.55	AVV/AVV	
	13C12-PCB 111	36:59	37:01	-2	1121627	715340	203302	127395	1.57	AVV/AVV	
	13C12-PCB 123	39:00	39:01	-1	1358096	859649	248378	156681	1.58	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 (Solid/Air Table 4)

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5j1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/18/06 13:15	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOIE01
Instrument	M1D	**Extract Vol**	200 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 118	39:21	39:21	0	1481205	904613	267687	163619	1.64	AVV/AVV	
	13C12-PCB 114	39:53	39:54	-1	1398356	849293	244749	148841	1.65	AVV/AVV	
	13C12-PCB 105	40:33	40:33	0	1418418	884369	253315	155404	1.60	AVV/AVV	
	13C12-PCB 127	42:02	42:01	1	1417422	894337	246843	152887	1.58	AVV/AVV	
	13C12-PCB 126	43:42	43:40	2	1460085	925110	264900	163025	1.58	ABV/AVV	
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	Noise	00:00	00:00	0	635	613	254	245	1.04 *	/	
	PCB 155 (BZ)	34:02	34:05	-3	541056	429888	104978	82770	1.26	ABV/ABV	
	PCB 152 (BZ)	34:15	34:18	-3	520862	416470	99338	78458	1.25	AVV/AVV	
	PCB 150 (BZ)	34:25	34:27	-2	543499	430454	101814	77548	1.26	AVV/AVV	
	PCB 136 (BZ)	34:48	34:50	-2	507724	405104	96296	77603	1.25	AVV/AVV	D
	PCB 145 (BZ)	35:05	35:08	-3	535637	426214	97113	78562	1.26	AVV/AVV	
	PCB 148 (BZ)	36:37	36:40	-3	375259	304177	68026	55474	1.23	ABV/ABB	
	PCB 151 (BZ)	37:14	37:15	-1	730407	583437	84753	65776	1.25	ABV/ABV	
	PCB 154 (BZ)	37:28	37:31	-3	435785	358921	82798	66551	1.21	AVV/AVV	
	PCB 144 (BZ)	37:49	37:51	-2	390123	312753	73091	57132	1.25	AVB/AVB	D
	PCB 147 (BZ)	38:11	38:12	-1	918074	727399	172513	131338	1.26	ABV/ABV	
	PCB 143 (BZ)	38:29	38:31	-2	803088	641519	85885	70374	1.25	AVV/AVV	
	PCB 139 (BZ)	38:47	38:49	-2	916573	722578	158896	126652	1.27	AVV/AVV	
	PCB 131 (BZ)	39:00	39:01	-1	388288	312318	73496	55958	1.24	AVV/AVV	D
	PCB 142 (BZ)	39:10	39:12	-2	402151	318113	71838	56645	1.26	AVB/AVV	D
	PCB 132 (BZ)	39:28	39:29	-1	404897	319518	71533	56920	1.27	ABB/AVB	D
	PCB 133 (BZ)	39:57	40:00	-3	419309	336095	77235	60528	1.25	ABB/ABB	D
	PCB 165 (BZ)	40:22	40:24	-2	619312	495422	117992	90464	1.25	AVV/ABV	
	PCB 146 (BZ)	40:37	40:38	-1	492707	389971	95615	75668	1.26	AVV/AVV	
	PCB 161 (BZ)	40:45	40:48	-3	625320	503258	110719	87388	1.24	AVB/AVB	
	PCB 153 (BZ)	41:16	41:16	0	1168409	924538	175961	138958	1.26	ABV/ABV	
	PCB 141 (BZ)	41:27	41:27	0	461721	372019	80447	61625	1.24	AVB/AVB	
	PCB 130 (BZ)	41:52	41:52	0	395988	312583	70200	54998	1.27	ABV/ABV	
	PCB 164 (BZ)	42:13	42:12	1	1065701	844781	106009	83338	1.26	AVV/AVV	
	PCB 138 (BZ)	42:32	42:30	2	2066508	1620708	213725	167520	1.28	AVV/AVV	
	PCB 158 (BZ)	42:55	42:54	1	707333	549317	119418	93664	1.29	AVB/AVB	
	PCB 166 (BZ)	43:48	43:47	1	1143330	891955	179806	143200	1.28	ABV/ABV	
	PCB 159 (BZ)	44:48	44:48	0	600884	474803	106245	83106	1.27	AVV/AVV	
	PCB 162 (BZ)	45:05	45:05	0	665732	535005	115071	91530	1.24	AVV/AVV	
	PCB 167 (BZ)	45:34	45:34	0	635278	511223	117299	88521	1.24	ABV/ABV	
	PCB 156 (BZ)	46:45	46:43	2	1307030	1023566	165214	130822	1.28	AVV/ABV	
	PCB 169 (BZ)	50:04	49:59	5	639148	486395	100375	77699	1.31	ABV/ABB	M
372					**371.8817**	**373.8788**	**371.8817**	**373.8788**	**1.05-1.43**		
	Noise	00:00	00:00	0	413	393	165	157	1.05	/	
	13C12-PCB 155	33:59	34:03	-4	991821	769447	190397	151790	1.29	ABV/ABV	
	13C12-PCB 138	42:30	42:29	1	931987	740530	163319	131155	1.26	ABV/ABV	
	13C12-PCB 167	45:33	45:32	1	1115973	864118	194395	154044	1.29	AVV/ABV	
	13C12-PCB 156	46:44	46:43	1	2306908	1799095	300748	232150	1.28	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 (Solid/Air Table 4)

IsoCalc

Workorder	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5jl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/18/06 13:15	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOIE01
Instrument	M1D	**Extract Vol**	200 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**		
	13C12-PCB 169	50:03	49:59	4	921616	724680	149075	117371	1.27	AVV/ABV	M
394					**393.8025**	**395.7995**	**393.8025**	**395.7995**	**0.89-1.21**		
	Noise	00:00	00:00	0	510	515	204	206	0.99	/	
	PCB 188 (BZ)	39:51	39:54	-3	503322	479381	97013	88017	1.05	ABV/ABV	
	PCB 179 (BZ)	40:13	40:15	-2	484004	461411	87654	82773	1.05	AVV/AVV	
	PCB 184 (BZ)	40:44	40:47	-3	469282	439227	87747	82974	1.07	AVV/AVV	
	PCB 176 (BZ)	41:06	41:08	-2	500946	476094	89003	87454	1.05	AVB/AVV	
	PCB 186 (BZ)	41:35	41:36	-1	482449	459323	85564	84938	1.05	AVV/AVB	
	PCB 178 (BZ)	42:57	42:59	-2	343696	341477	63064	62003	1.01	ABV/ABV	
	PCB 175 (BZ)	43:36	43:38	-2	395393	370396	70354	68470	1.07	AVV/AVV	
	PCB 187 (BZ)	43:53	43:54	-1	417352	393268	76106	73751	1.06	AVV/AVV	
	PCB 182 (BZ)	44:05	44:05	0	405556	383499	73053	66683	1.06	AVB/AVB	
	PCB 183 (BZ)	44:30	44:32	-2	751909	715084	70197	68021	1.05	ABV/ABV	
	PCB 174 (BZ)	44:45	44:44	1	373000	352674	66757	62182	1.06	AVB/AVB	D
	PCB 177 (BZ)	45:12	45:13	-1	339250	324457	59911	57182	1.05	ABB/ABB	
	PCB 181 (BZ)	45:35	45:37	-2	379673	360477	69032	65090	1.05	AVV/ABV	
	PCB 173 (BZ)	45:49	45:48	1	671519	638208	114786	111702	1.05	AVB/AVB	
	PCB 172 (BZ)	47:28	47:29	-1	324838	312538	58813	56438	1.04	ABV/ABV	D
	PCB 192 (BZ)	47:46	47:46	0	459365	434119	81722	78089	1.06	AVB/AVB	
	PCB 193 (BZ)	48:05	48:04	1	887390	860902	115453	112888	1.03	ABV/ABV	
	PCB 191 (BZ)	48:30	48:30	0	514886	481596	90694	83542	1.07	AVB/AVB	
	PCB 170 (BZ)	49:26	49:25	1	333554	325911	60458	56010	1.02	ABV/ABV	
	PCB 190 (BZ)	49:58	49:57	1	563057	493509	85777	80812	1.14	ABV/ABV	
	PCB 189 (BZ)	52:35	52:33	2	637554	602426	115118	103387	1.06	AVB/AVB	
406					**405.8428**	**407.8398**	**405.8428**	**407.8398**	**0.89-1.21**		
	Noise	00:00	00:00	0	380	373	152	149	1.02	/	
	13C12-PCB 188	39:50	39:53	-3	958476	914042	175246	168074	1.05	ABV/ABV	
	13C12-PCB 178	42:56	42:56	0	620844	591498	117169	107873	1.05	AVV/AVV	
	13C12-PCB 180	48:06	48:07	-1	798836	752337	146693	130178	1.06	ABV/ABV	
	13C12-PCB 170	49:23	49:23	0	650745	630389	115186	110859	1.03	AVV/AVV	
	13C12-PCB 189	52:34	52:32	2	1125028	1073503	196569	187210	1.05	ABV/AVV	
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**		
	Noise	00:00	00:00	0	405	393	162	157	1.03 *	/	
	PCB 202 (BZ)	45:18	45:19	-1	392821	426134	69979	76589	0.92	ABV/ABV	
	PCB 200 (BZ)/201 (IUPAC	46:14	46:16	-2	435182	475343	79076	87354	0.92	AVB/ABB	
	PCB 204 (BZ)	46:55	46:57	-2	443933	494504	81462	89150	0.90	ABV/ABV	
	PCB 199 (BZ)/200 (IUPAC	47:17	47:18	-1	840638	940092	78341	87530	0.89	AVB/AVV	
	PCB 198 (BZ)	50:06	50:05	1	713388	796952	107404	118050	0.90	ABV/ABV	
	PCB 196 (BZ)	50:46	50:47	-1	306333	333322	54659	63881	0.92	ABV/ABV	
	PCB 203 (BZ)	50:57	50:59	-2	330284	373351	57379	65668	0.88	AVV/AVB	D
	PCB 195 (BZ)	52:20	52:20	0	346399	390606	59460	69080	0.89	ABV/ABV	
	PCB 194 (BZ)	54:42	54:42	0	370039	411294	62483	70066	0.90	AVV/AVV	
	PCB 205 (BZ)	55:10	55:09	1	474252	527978	86684	95690	0.90	AVB/AVB	

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	H2W5J1AD	**Prep Batch**	6100047	**Lot No**	H6D100000-047
Data File	/20060418s1/aph2w5jl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90148	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/18/06 13:15	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOIE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	DCG	**Diluton Factor**	1.00	**Code**	IE5

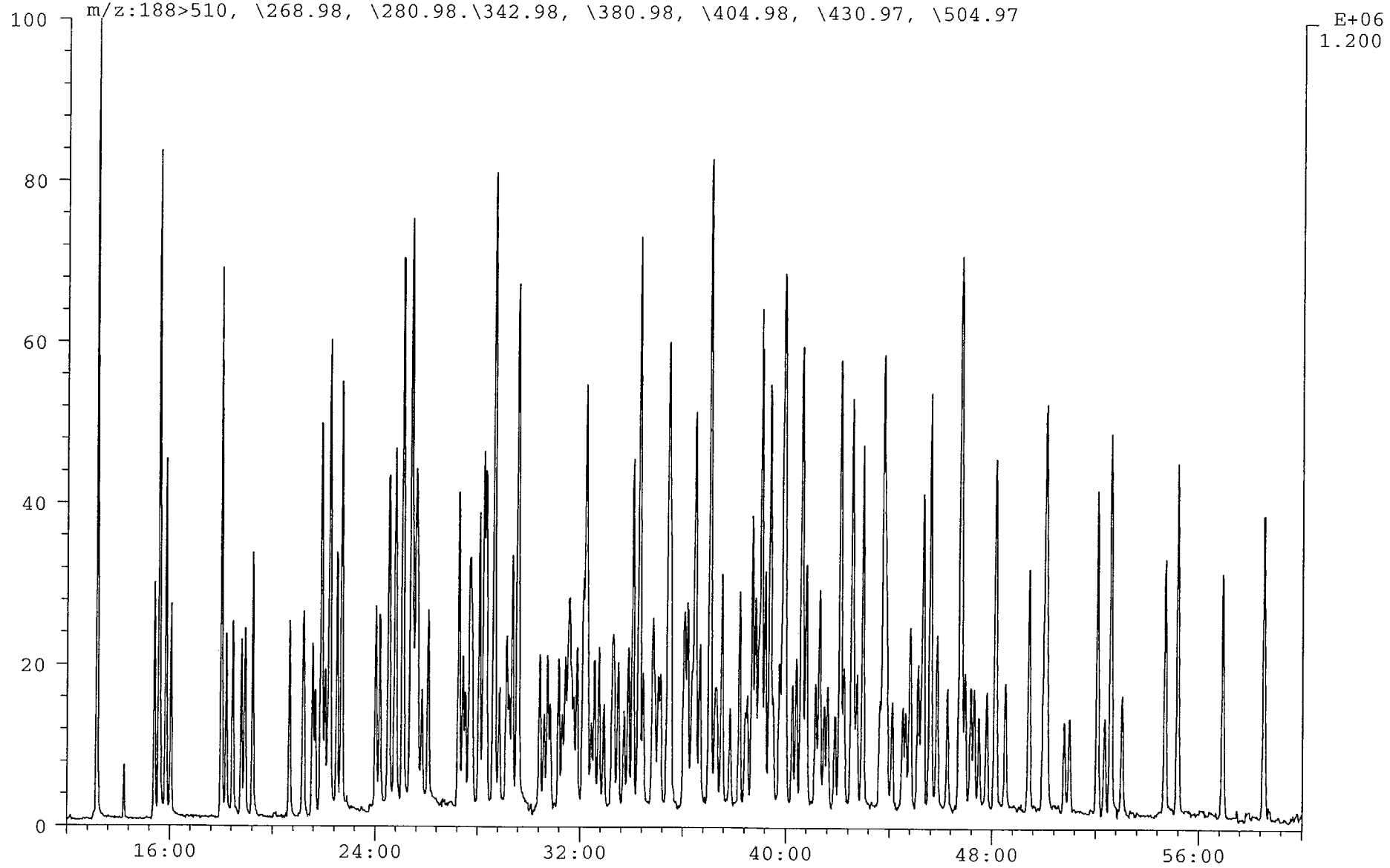
View Small Peaks? False **View deleted peaks?** False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**		
	Noise	00:00	00:00	0	365	370	146	148	0.99	/	
	13C12-PCB 202	45:16	45:18	-2	797795	859026	146982	165041	0.93	AVV/ABV	
	13C12-PCB 194	54:40	54:39	1	637798	707181	113671	127015	0.90	ABV/ABV	
	13C12-PCB 205	55:09	55:08	1	924894	1022803	169713	180210	0.90	AVV/AVV	
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**		
	Noise	00:00	00:00	0	333	345	133	138	0.96 *	/	
	PCB 208 (BZ)	52:04	52:05	-1	395009	494434	70703	89639	0.80	AVV/AVV	
	PCB 207 (BZ)	53:00	53:02	-2	409165	516207	70374	89308	0.79	ABV/ABV	
	PCB 206 (BZ)	56:56	56:53	3	297219	367949	50741	66173	0.81	ABB/ABV	
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**		
	Noise	00:00	00:00	0	335	365	134	146	0.92 *	/	
	13C12-PCB 208	52:02	52:03	-1	764990	956327	141862	175027	0.80	AVV/AVV	
	13C12-PCB 206	56:54	56:53	1	527170	672432	94538	121744	0.78	ABB/ABB	
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**		
	Noise	00:00	00:00	0	298	300	119	120	0.99 *	/	
	PCB 209 (BZ)	58:32	58:30	2	327750	467203	56607	81905	0.70	ABV/AVV	
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**		
	Noise	00:00	00:00	0	268	320	107	128	0.84 *	/	
	13C12-PCB 209	58:30	58:30	0	638657	915102	115294	166088	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

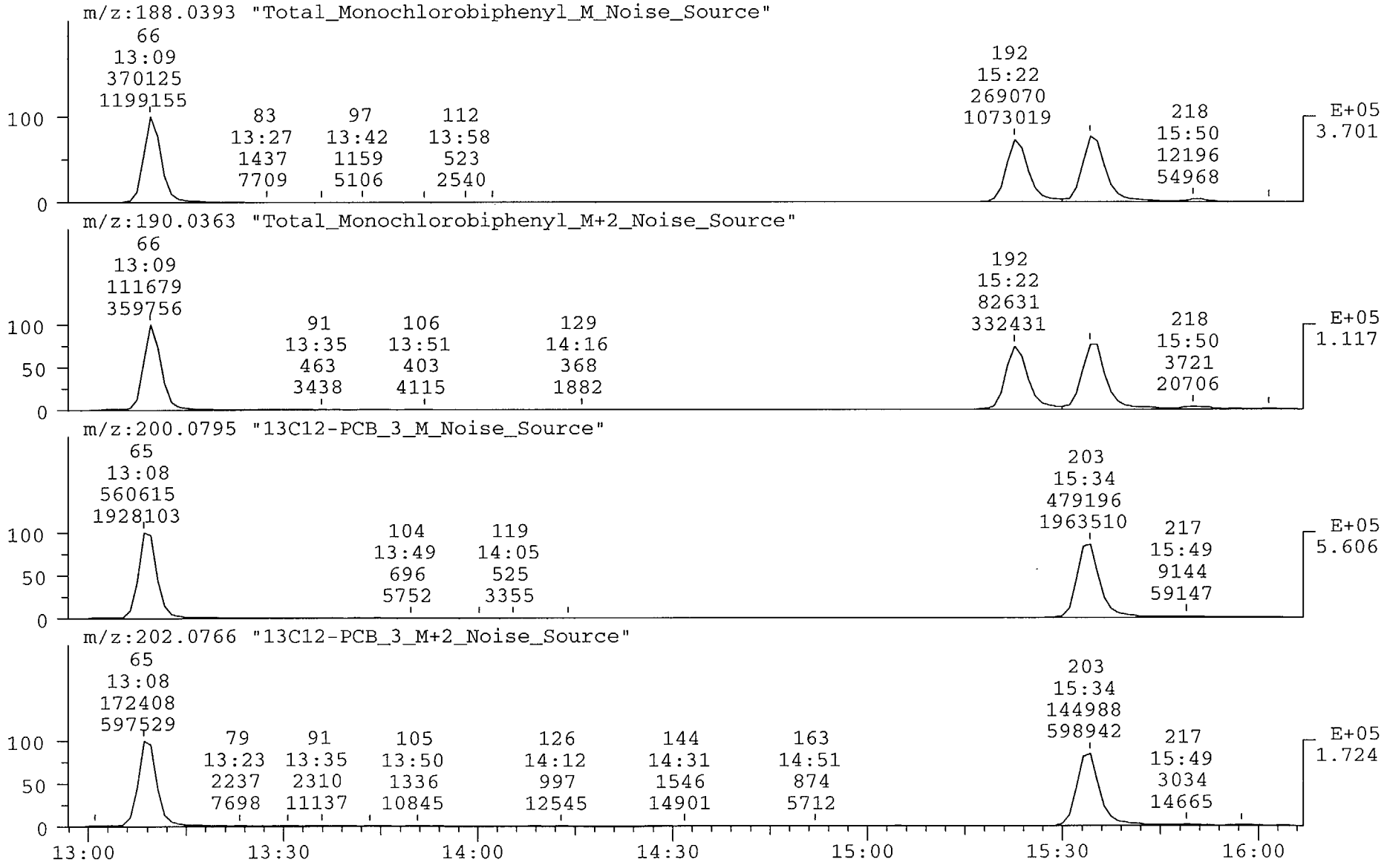
CHRO: aph2w5j1 18-Apr-06 Elapse: 58:35 2635
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2 > 2716 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

Int PMP 4-18-06
Calc MMC 4/19/06
QC J 4/24/06
Revd cs 4/27/06

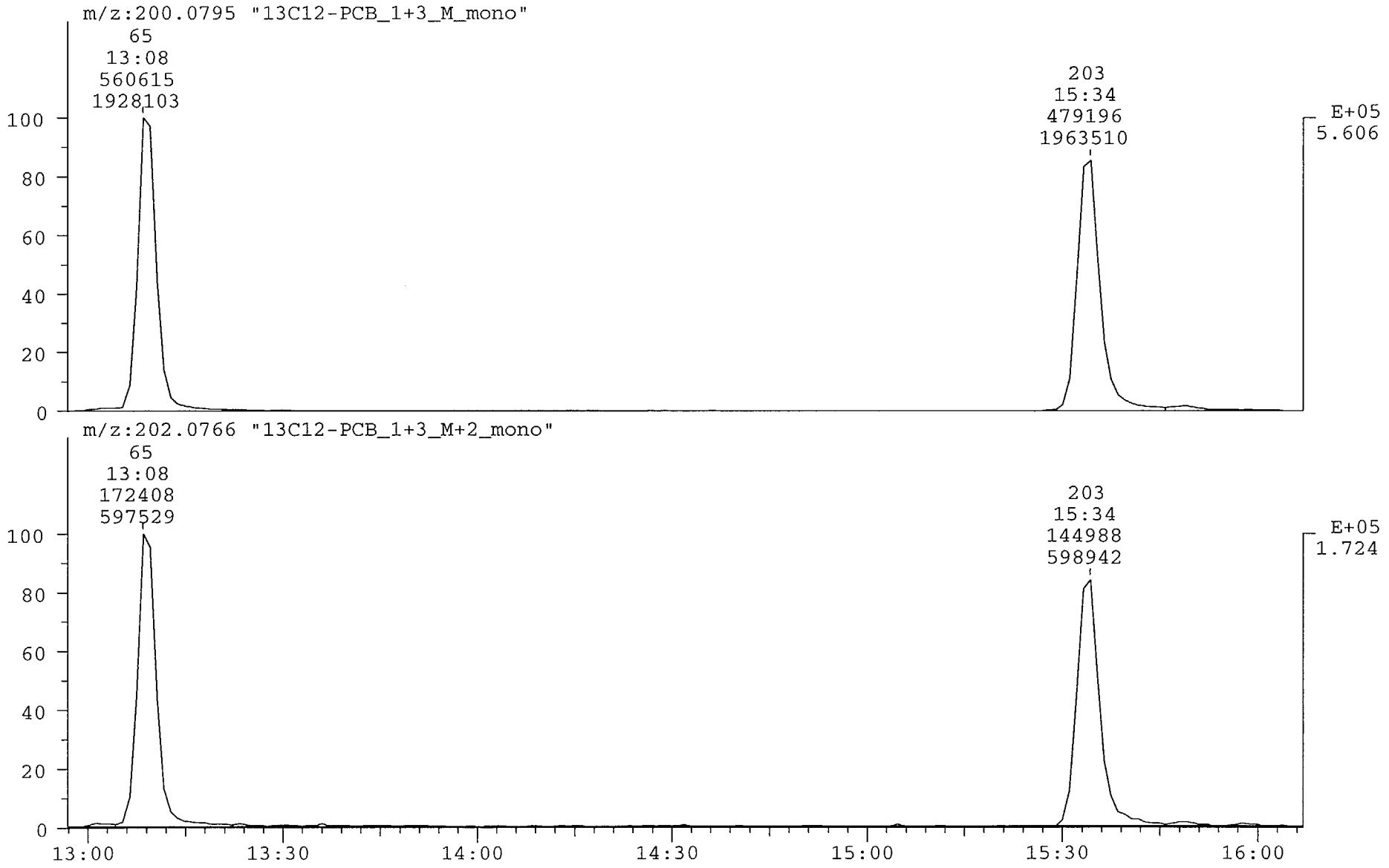


3059

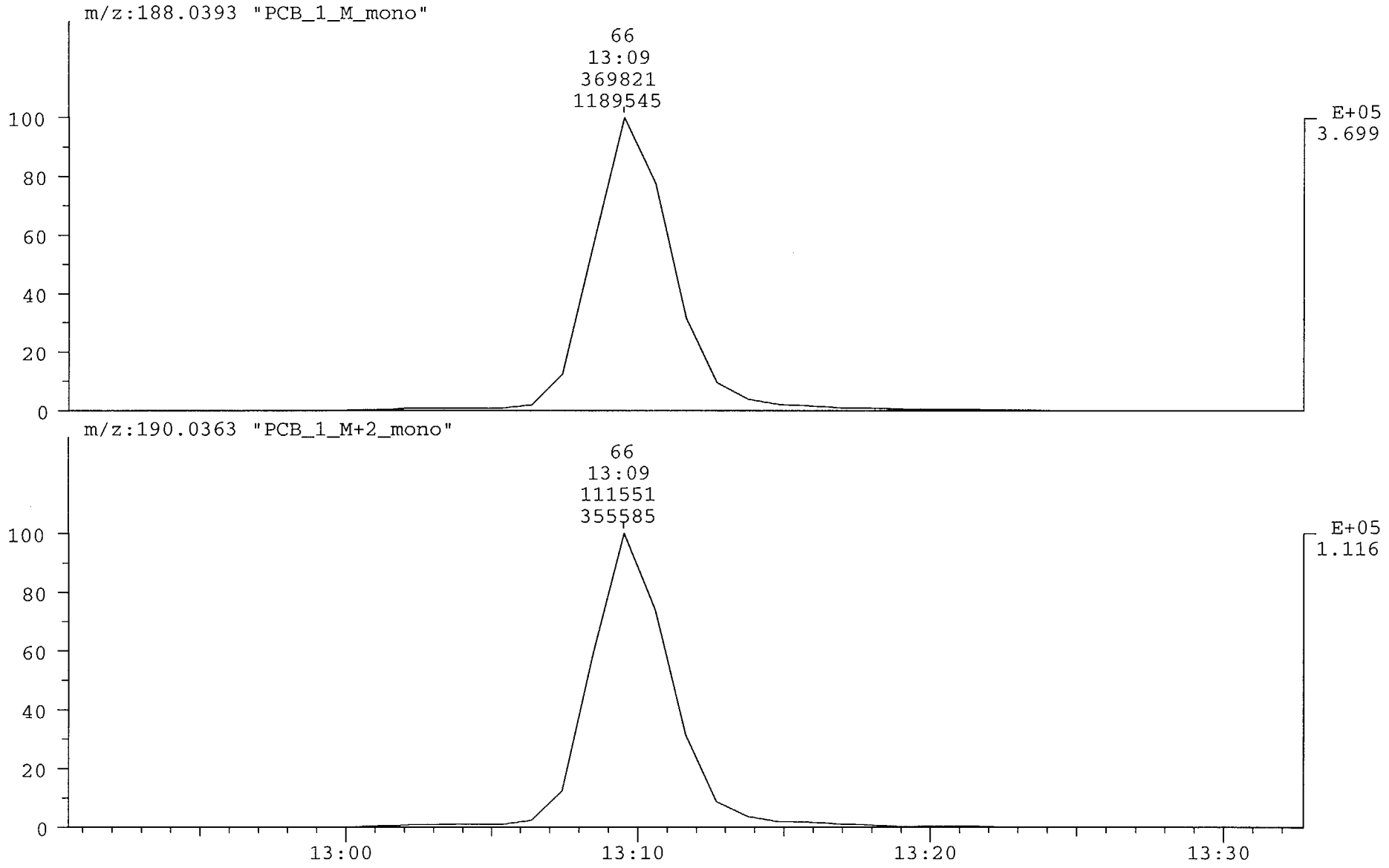
CHRO: aph2w5j1 18-Apr-06 Elapse: 14:31.9 144
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 54 > 234 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



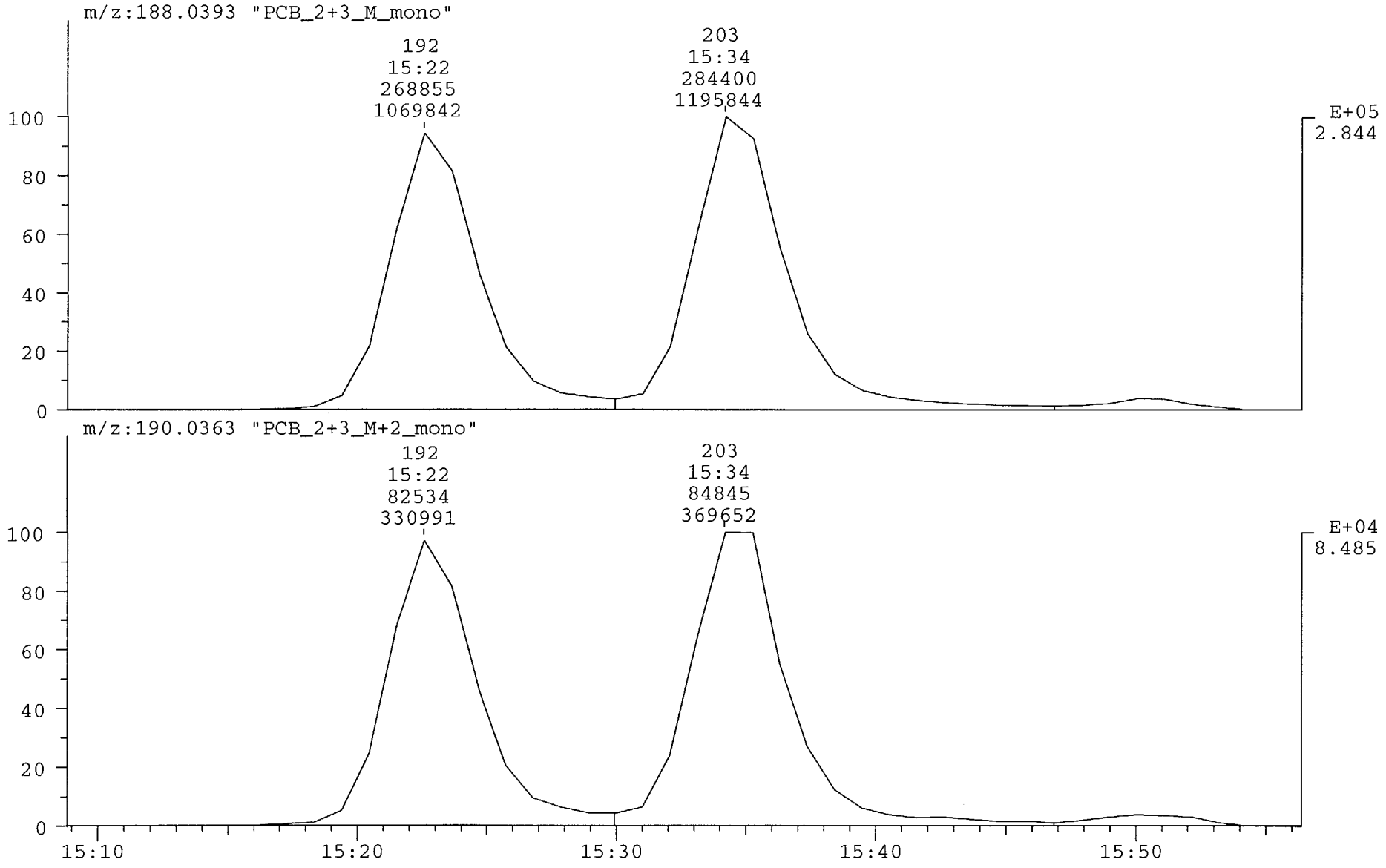
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:   14:31.9      144
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :   13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L             Inlet :   GC     Vial   5
Peak:  100.00  ppm     Label wndw:   54 > 234            Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -3, 3.0
Disp:  Height  Area
```



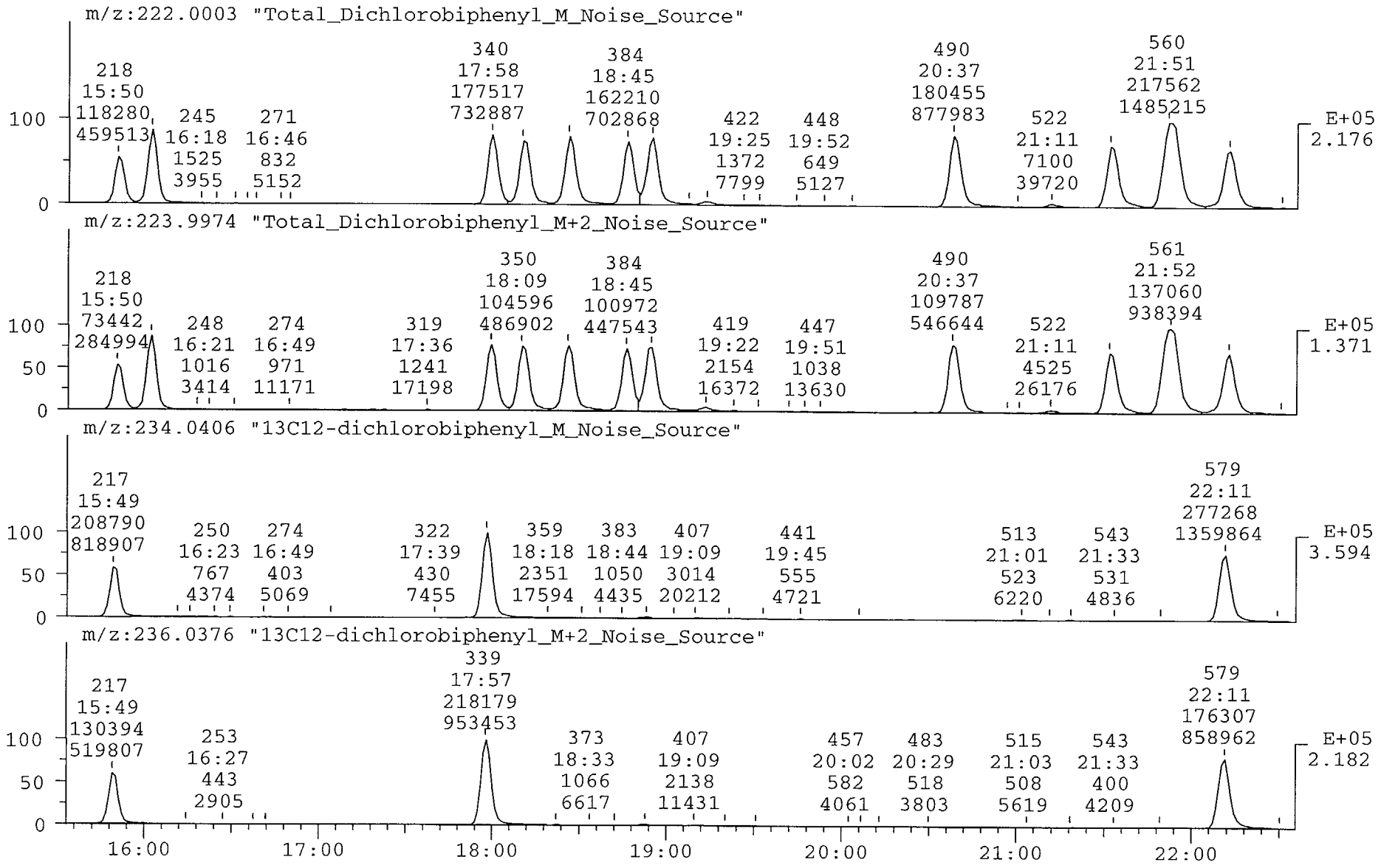
CHRO: aph2w5j1 18-Apr-06 Elapse: 13:11.6 68
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 48 > 88 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



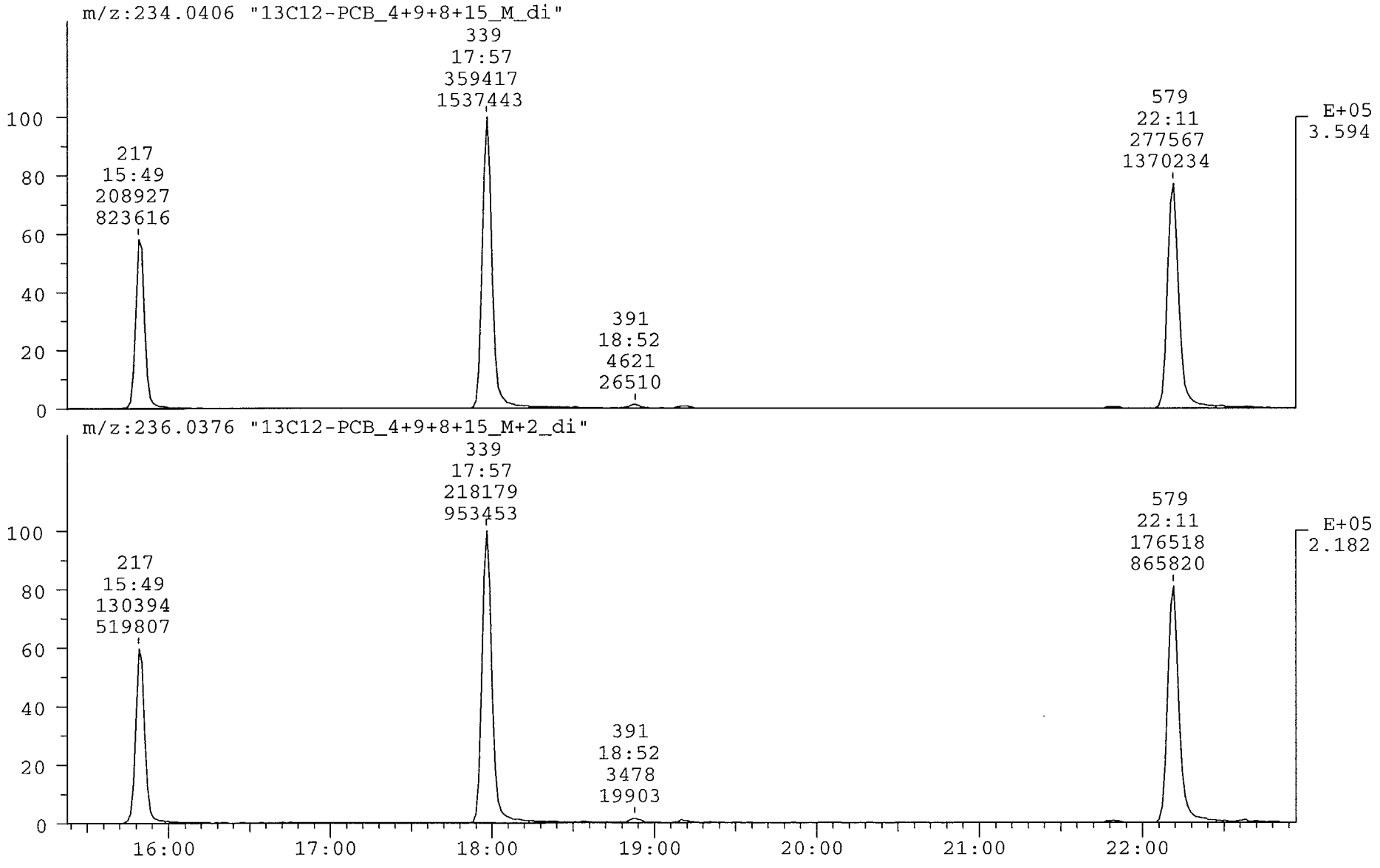
CHRO: aph2w5j1 18-Apr-06 Elapse: 15:35.2 204
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 179 > 224 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



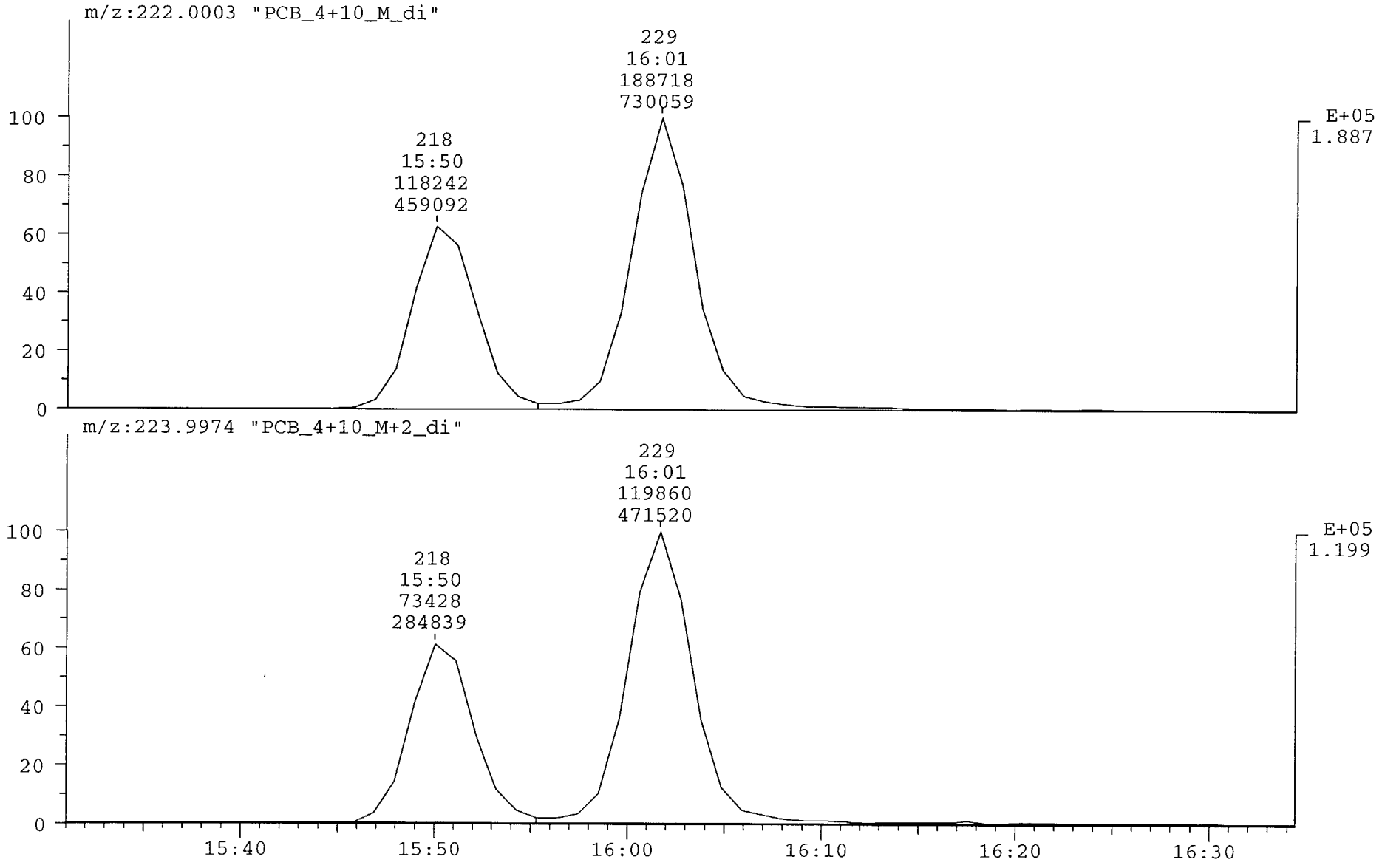
```
CHRO:  aph2w5j1                                  18-Apr-06   Elapse:   19:04.3      402
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                     Start :   13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :   6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L                  Inlet :   GC     Vial   5
Peak:  100.00  ppm     Label wndw:   202 > 602               Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                  Label :   -3, 3.0
Disp:  Height  Area
```



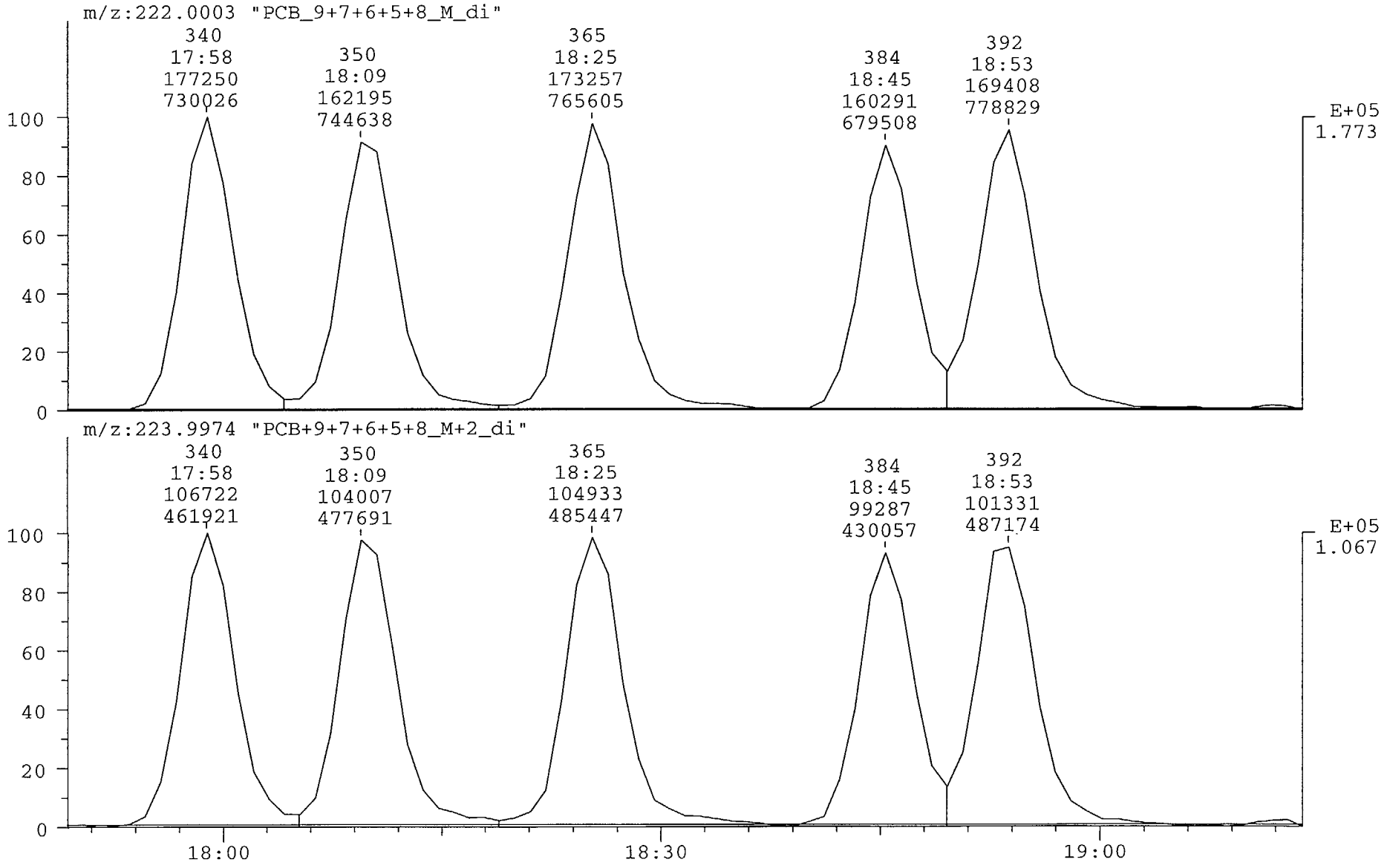
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  19:04.3     402
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L             Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   192 > 622           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: aph2w5j1 18-Apr-06 Elapse: 16:02.7 230
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 200 > 260 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

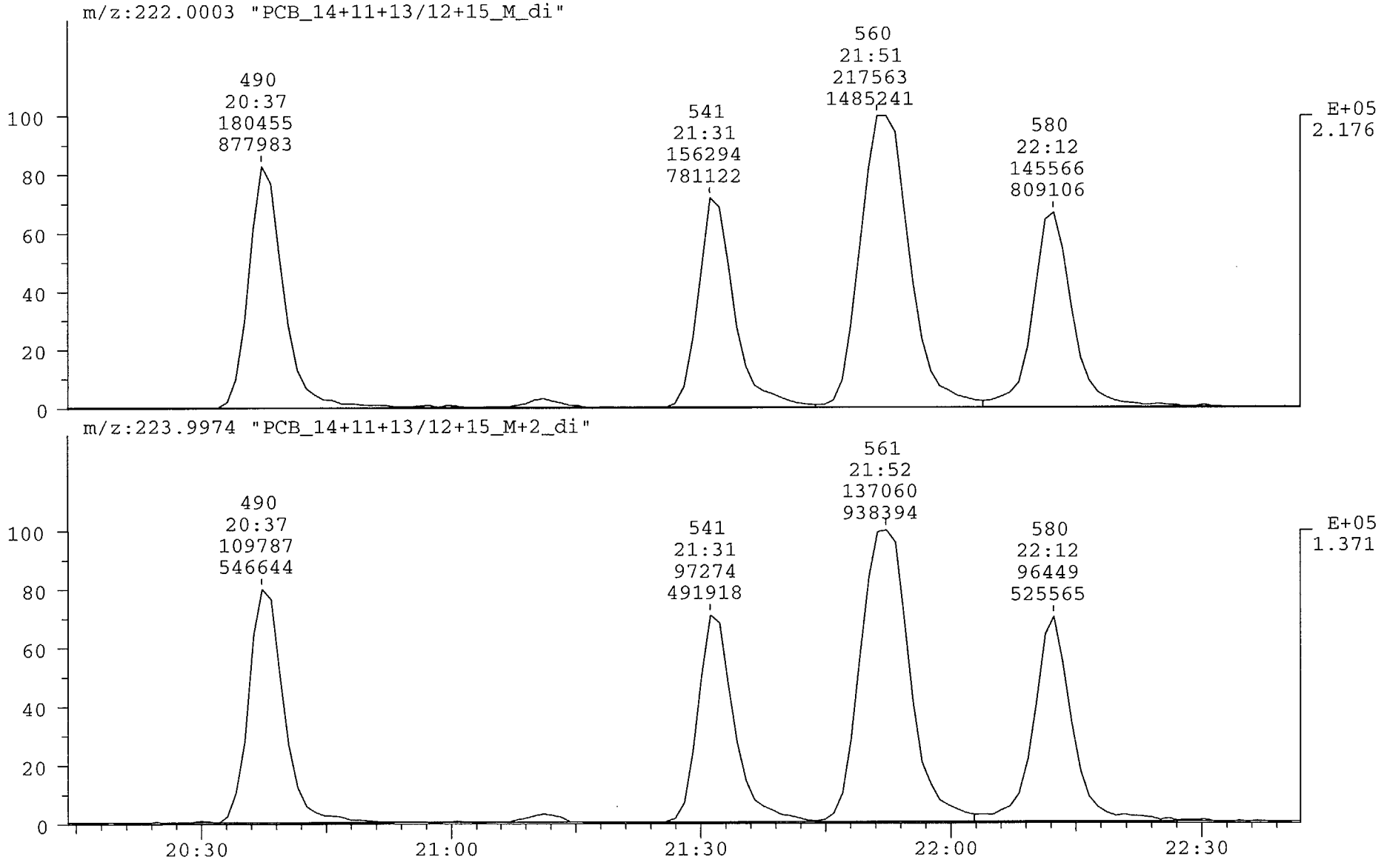


CHRO: aph2w5j1 18-Apr-06 Elapse: 18:33.7 373
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 331 > 411 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

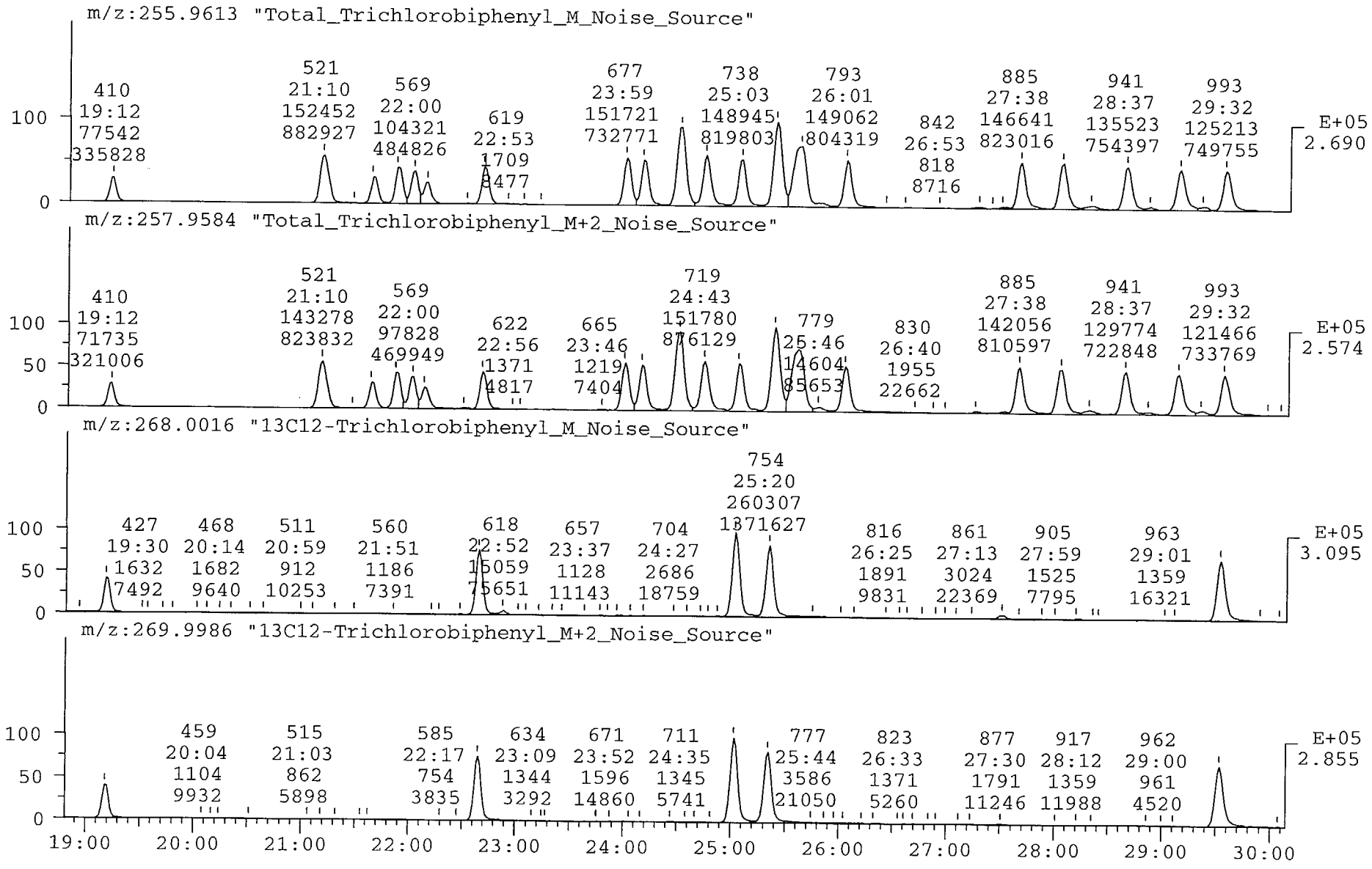


3067

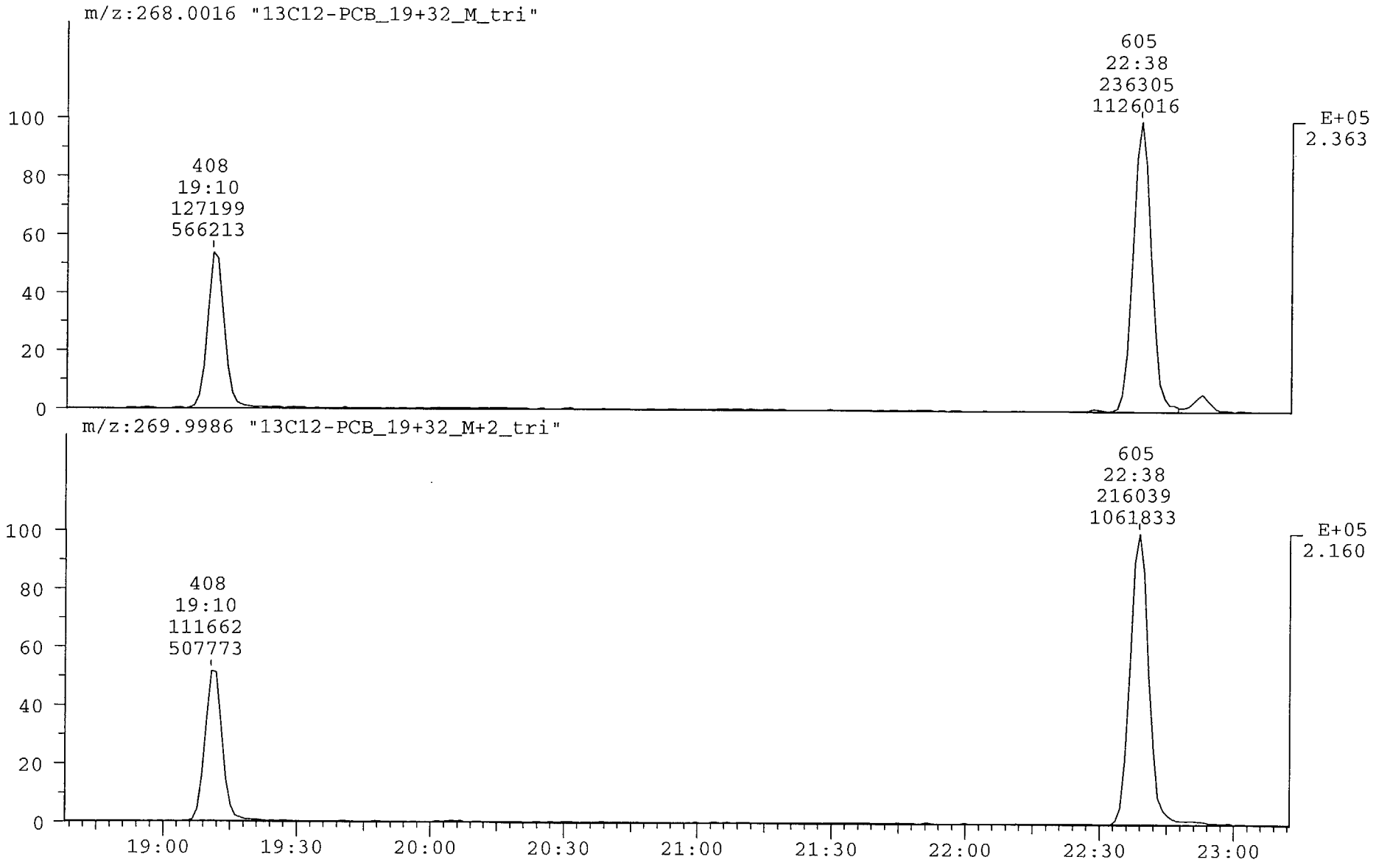
CHRO: aph2w5j1 18-Apr-06 Elapse: 21:27.9 538
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 468 > 608 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



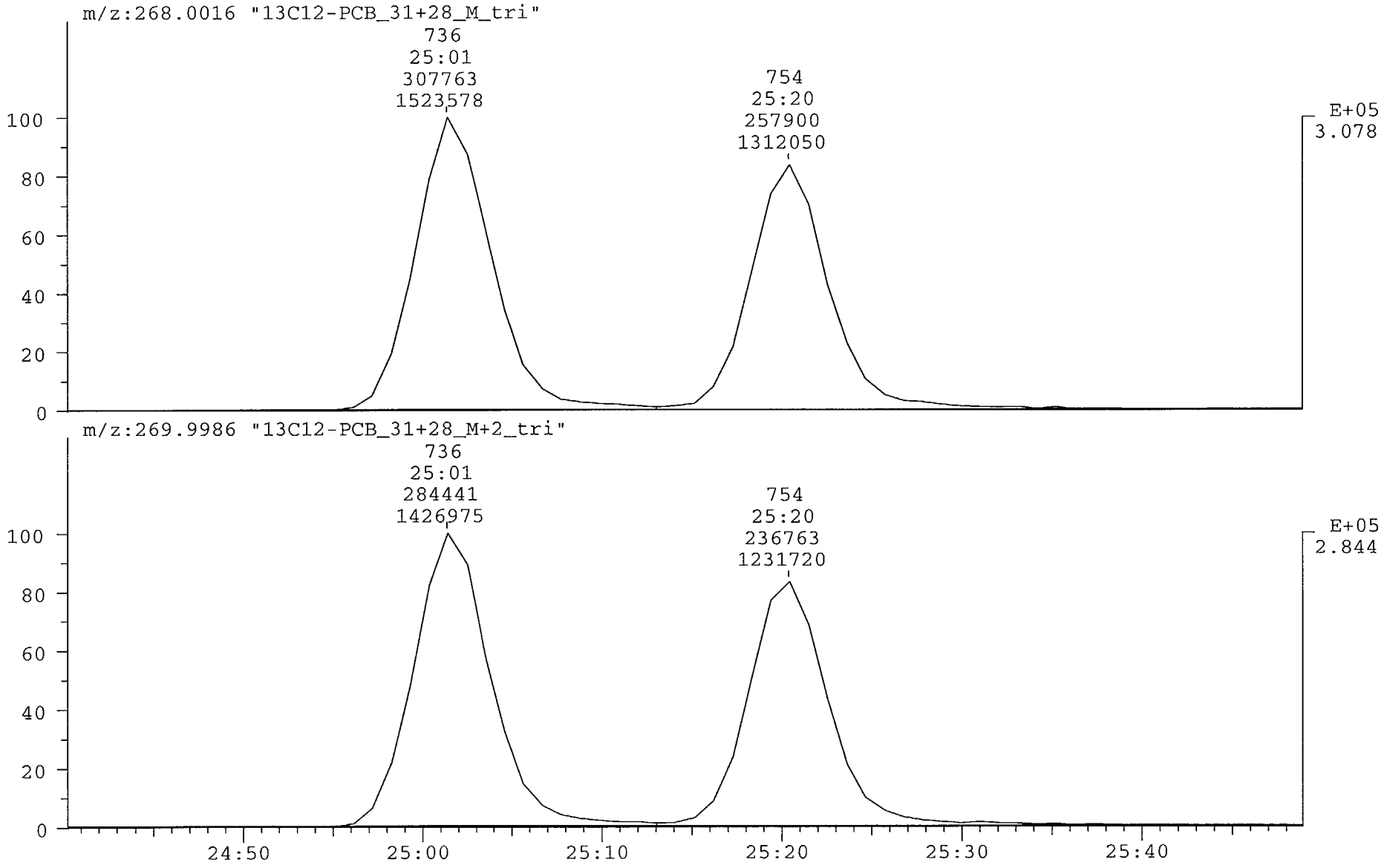
CHRO: aph2w5j1 18-Apr-06 Elapse: 24:30.8 707
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 387 > 1027 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



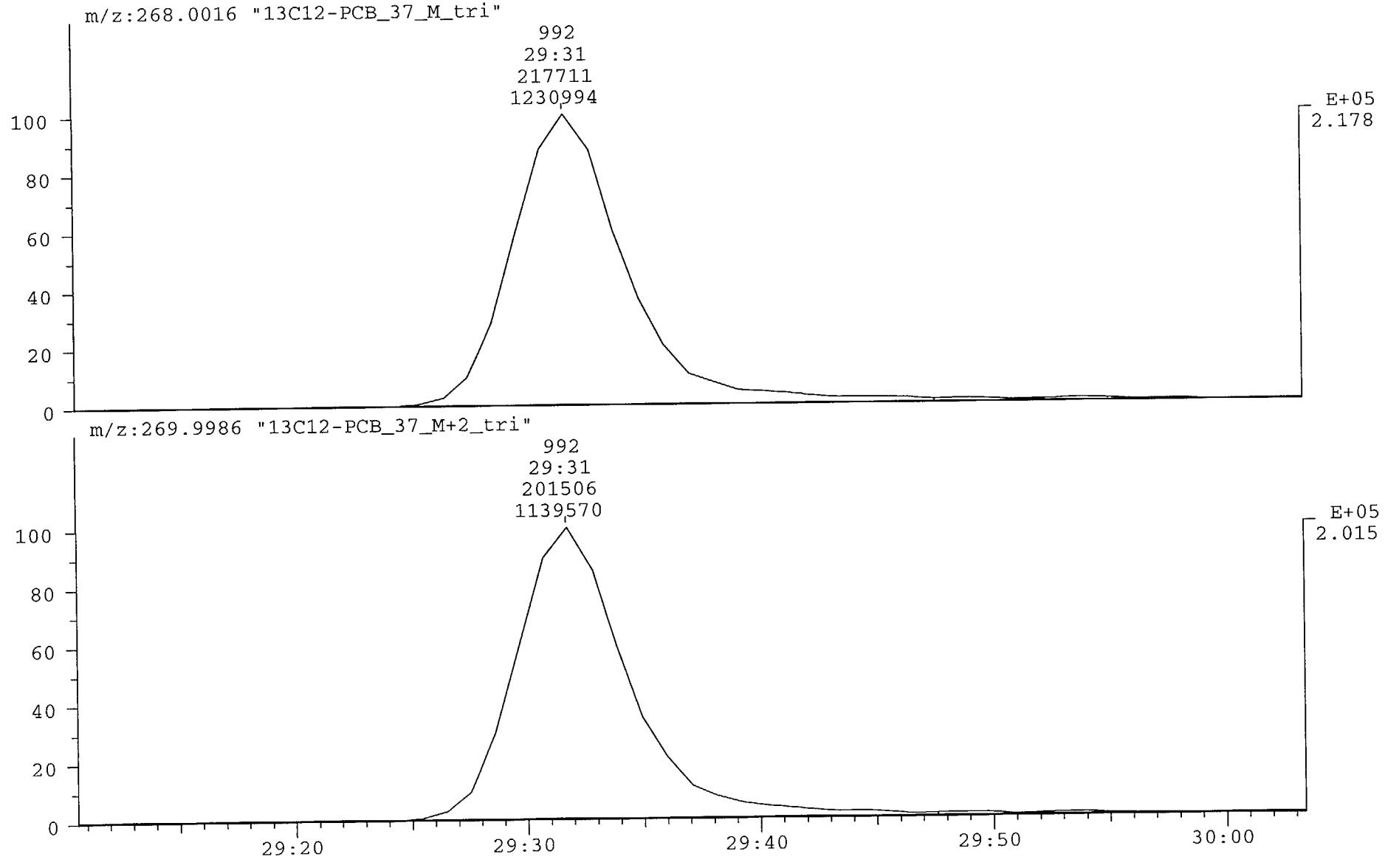
```
CHRO:  aph2w5j1                                18-Apr-06   Elapse:  20:44.7     497
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                   Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L               Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   377 > 637            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



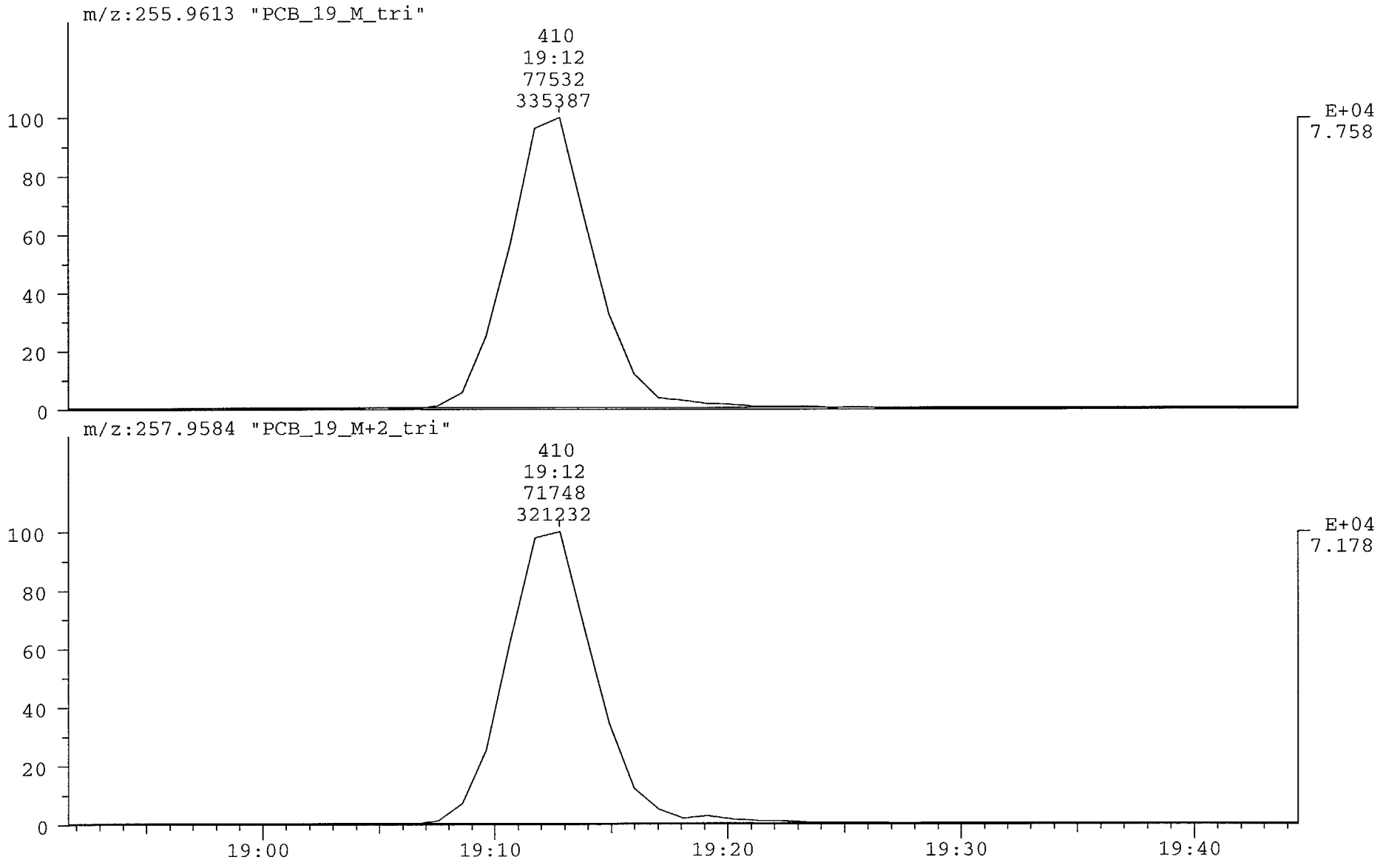
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  25:06.7      741
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L             Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   716 > 781           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



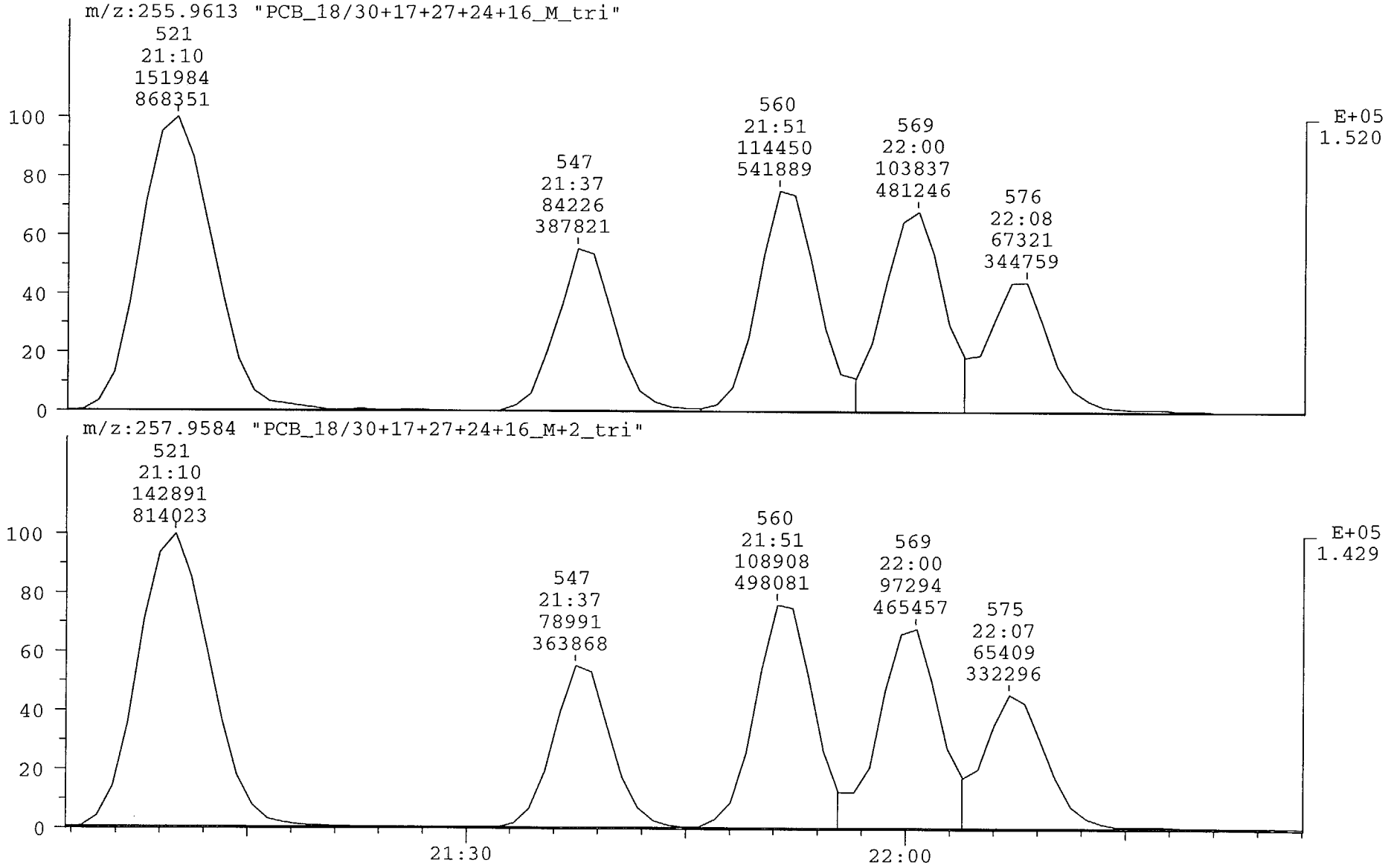
CHRO: aph2w5j1 18-Apr-06 Elapse: 29:37.0 997
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 972 > 1022 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



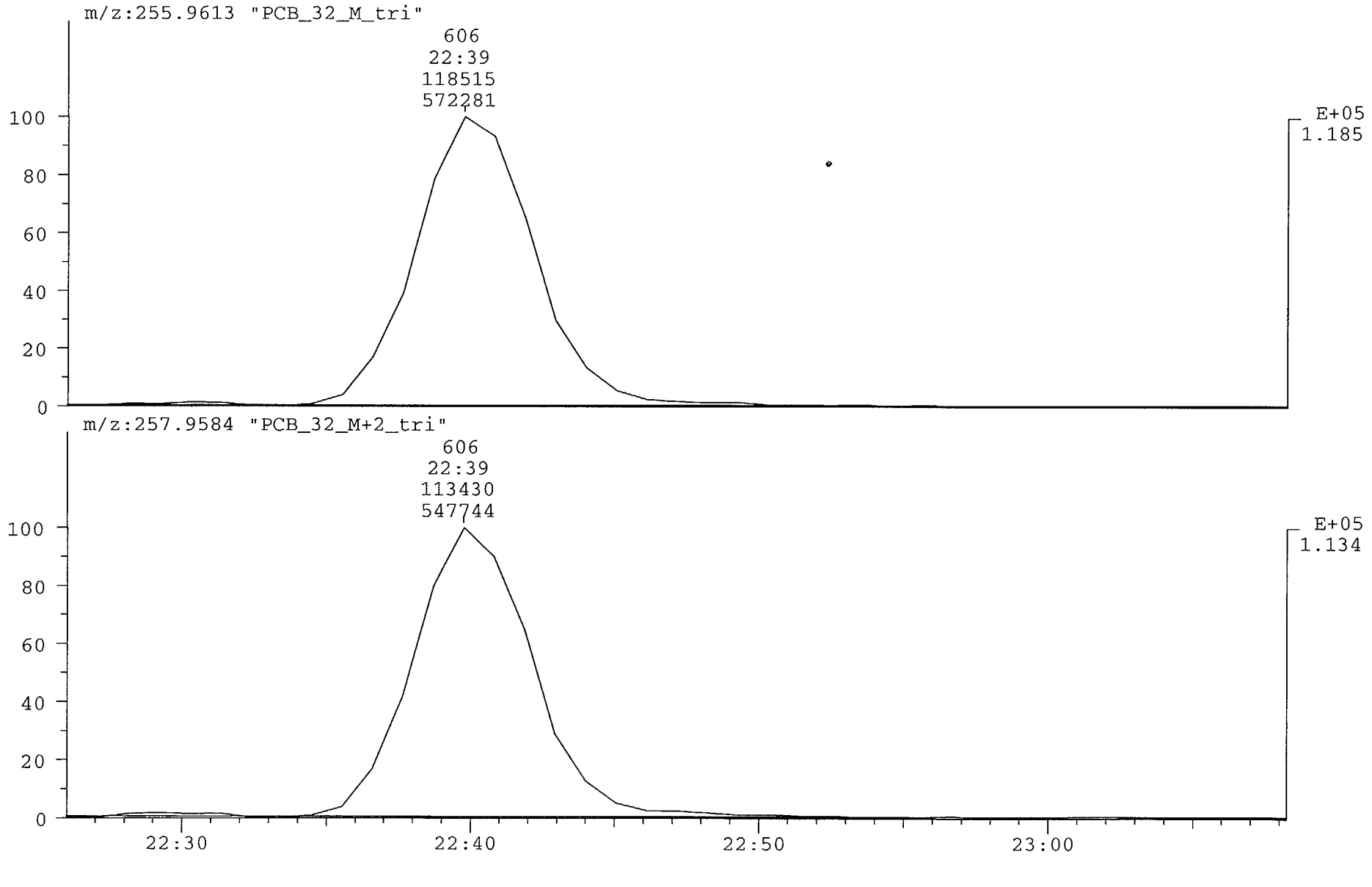
```
CHRO:  aph2w5j1                                18-Apr-06   Elapse:   19:18.1      415
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                   Start :   13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L               Inlet :   GC     Vial   5
Peak:  100.00  ppm     Label wndw:   390 > 440             Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :   -3, 3.0
Disp:  Height  Area
```



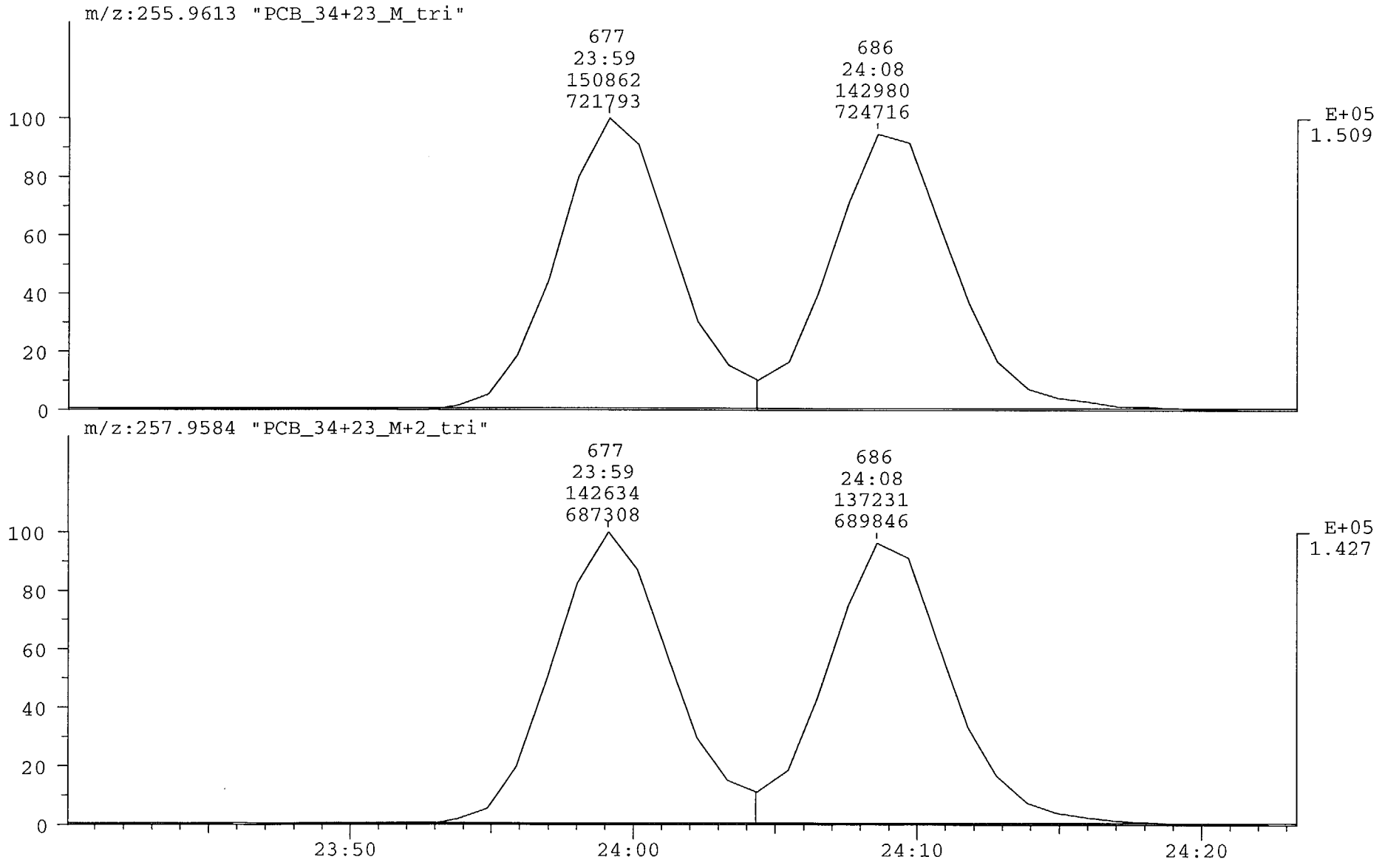
CHRO: aph2w5j1 18-Apr-06 Elapse: 21:44.8 554
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 514 > 594 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



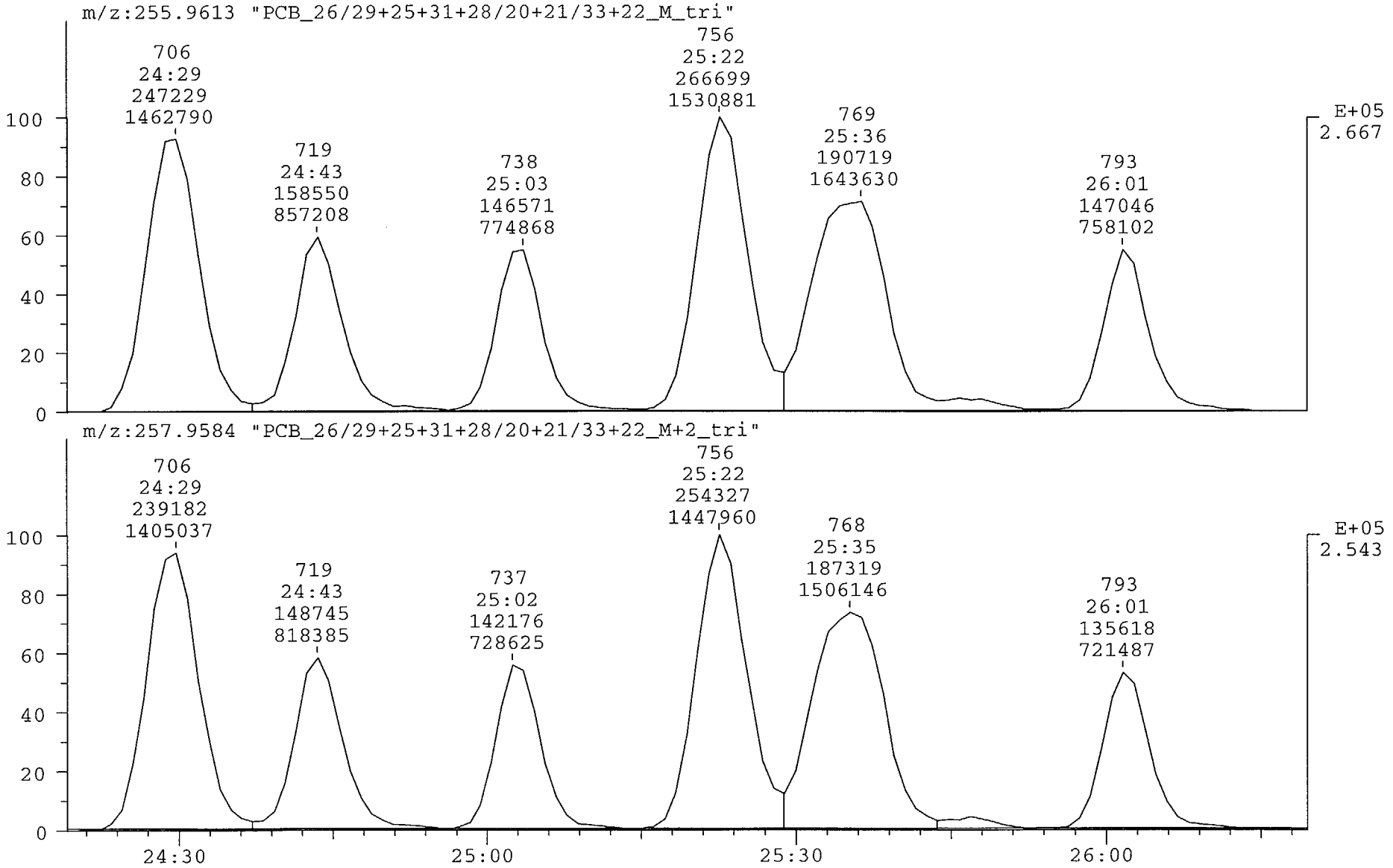
CHRO: aph2w5j1 18-Apr-06 Elapse: 22:47.1 613
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 593 > 633 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



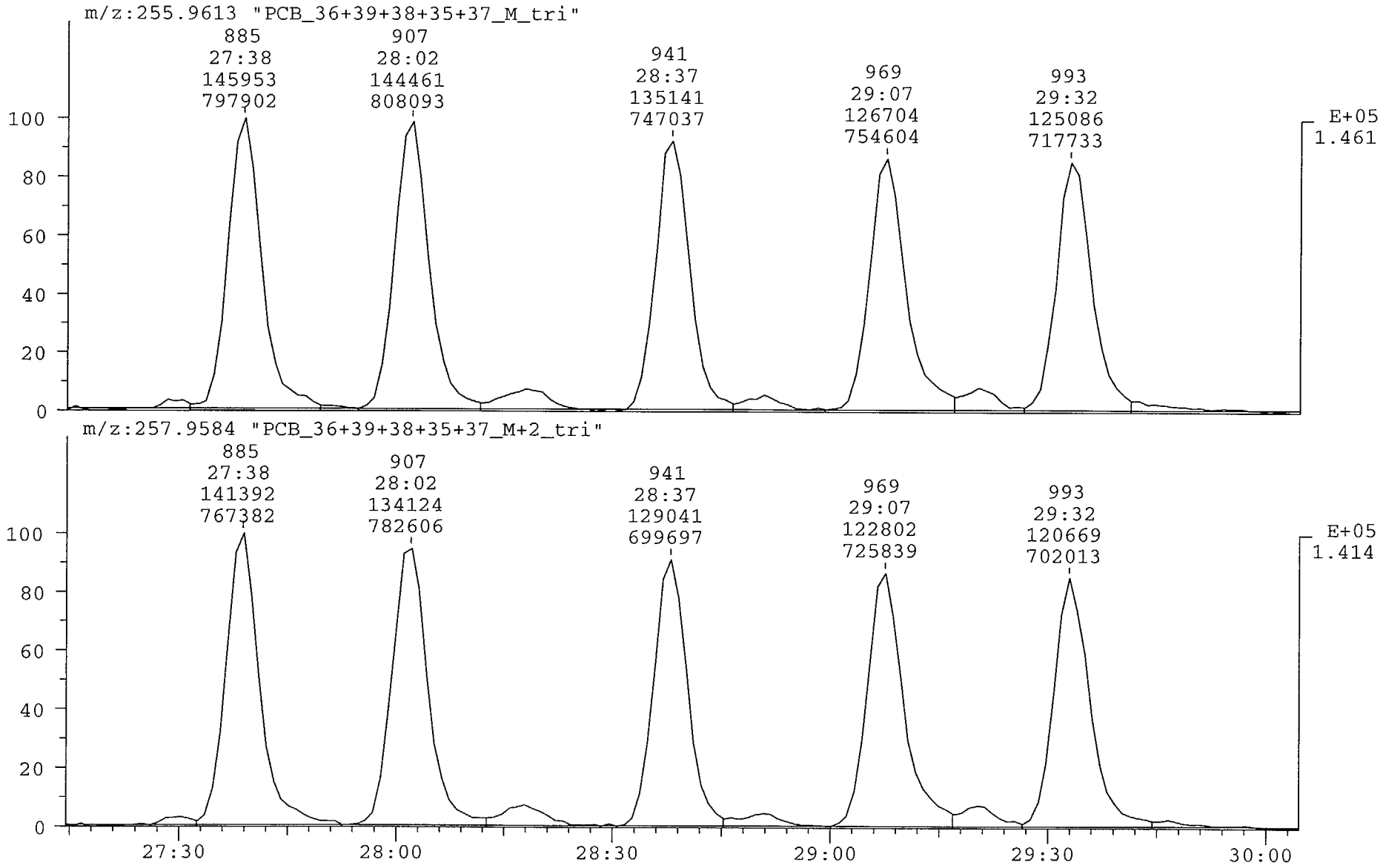
```
CHRO:  aph2w5jl                                18-Apr-06   Elapse:  24:06.4     684
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                   Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L                Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   659 > 700             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



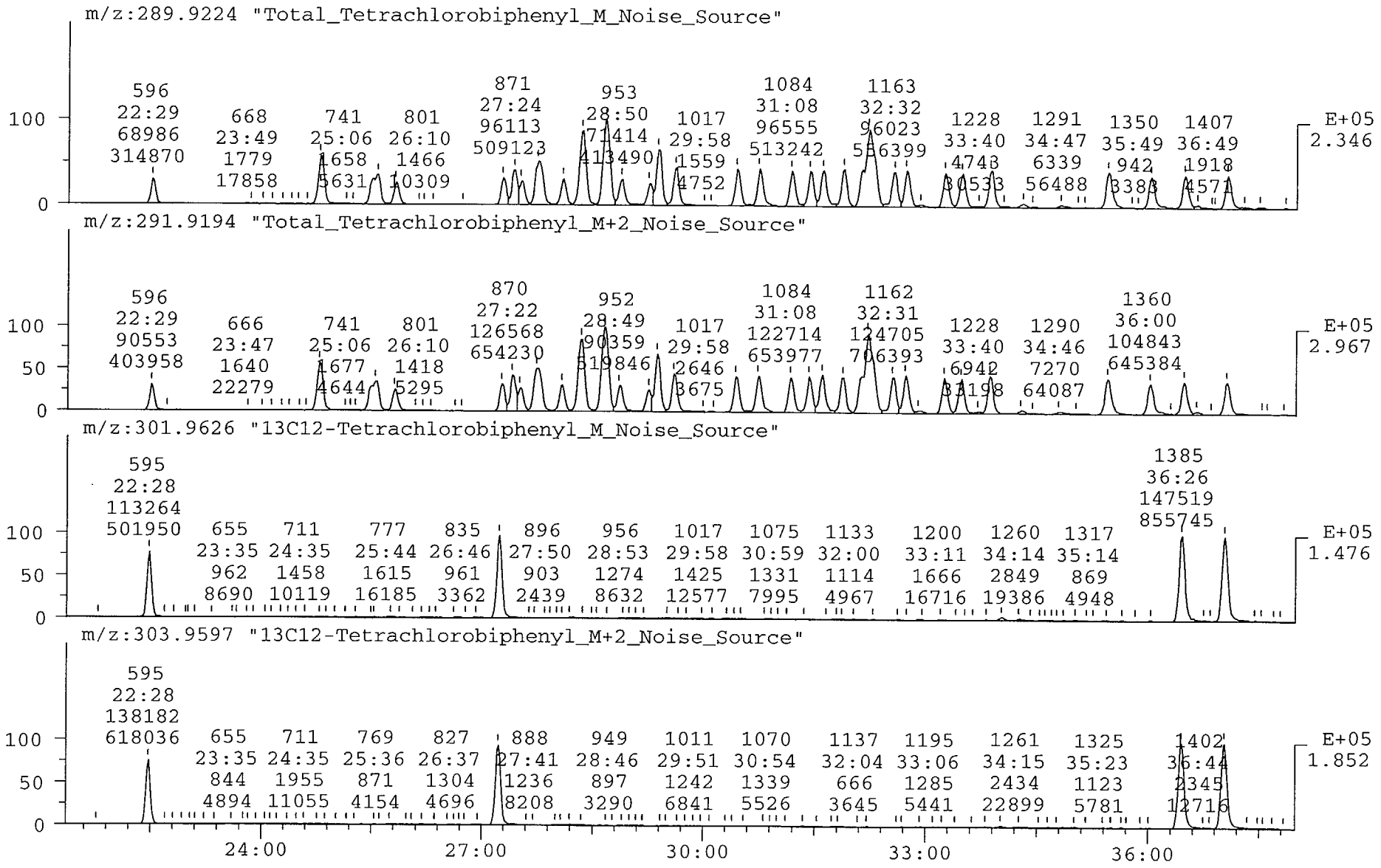
```
CHRO:  aph2w5j1                                  18-Apr-06   Elapse:   25:32.0      765
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                     Start :   13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :   6100047 (air-2)
Oper:  DCG            Client:  H6D100000-047L                Inlet :   GC     Vial   5
Peak:  100.00  ppm      Label wndw:   696 > 810               Masses:   181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                  Label :   -3, 3.0
Disp:  Height  Area
```



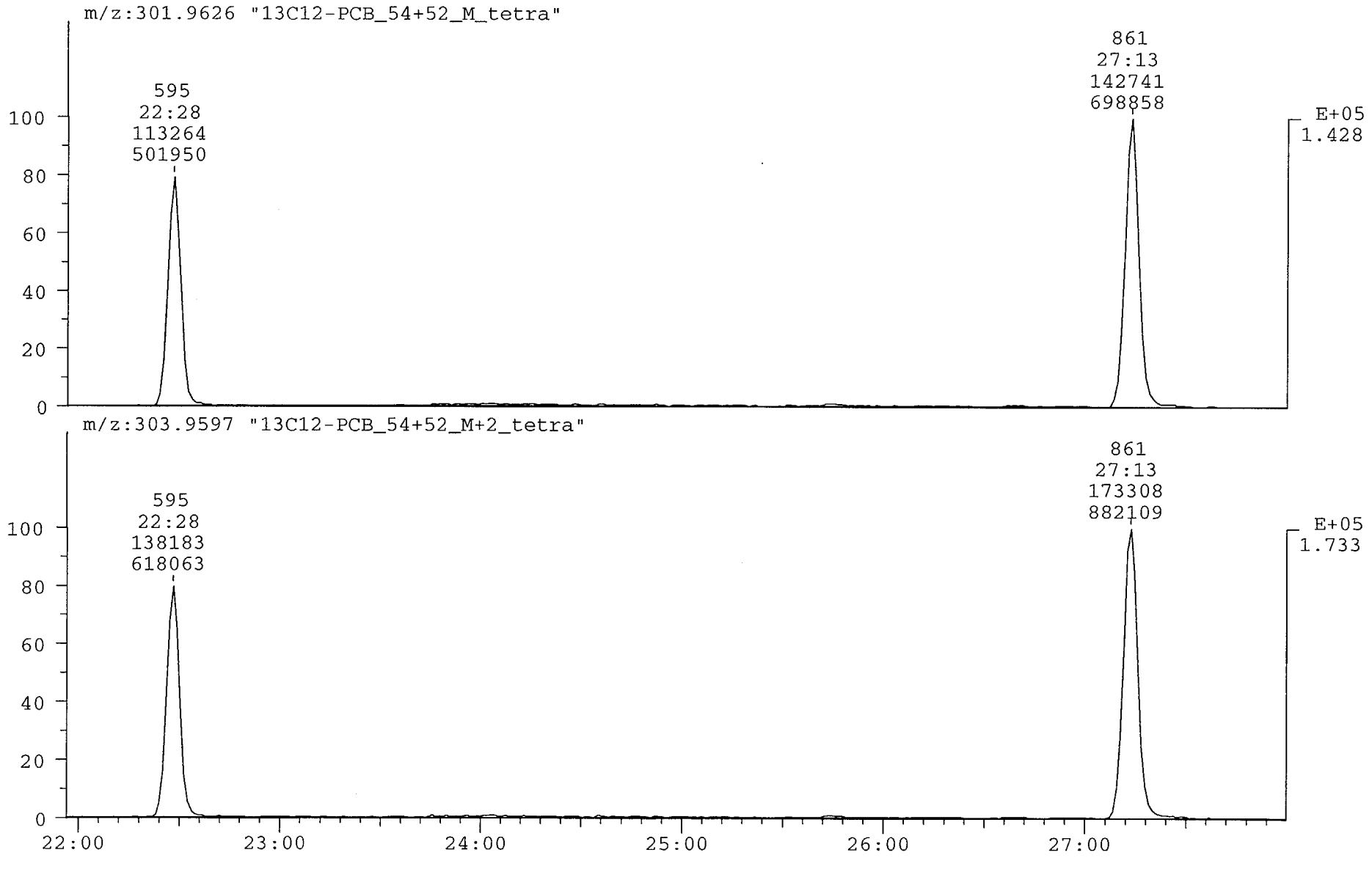
CHRO: aph2w5j1 18-Apr-06 Elapse: 28:44.2 947
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 862 > 1023 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



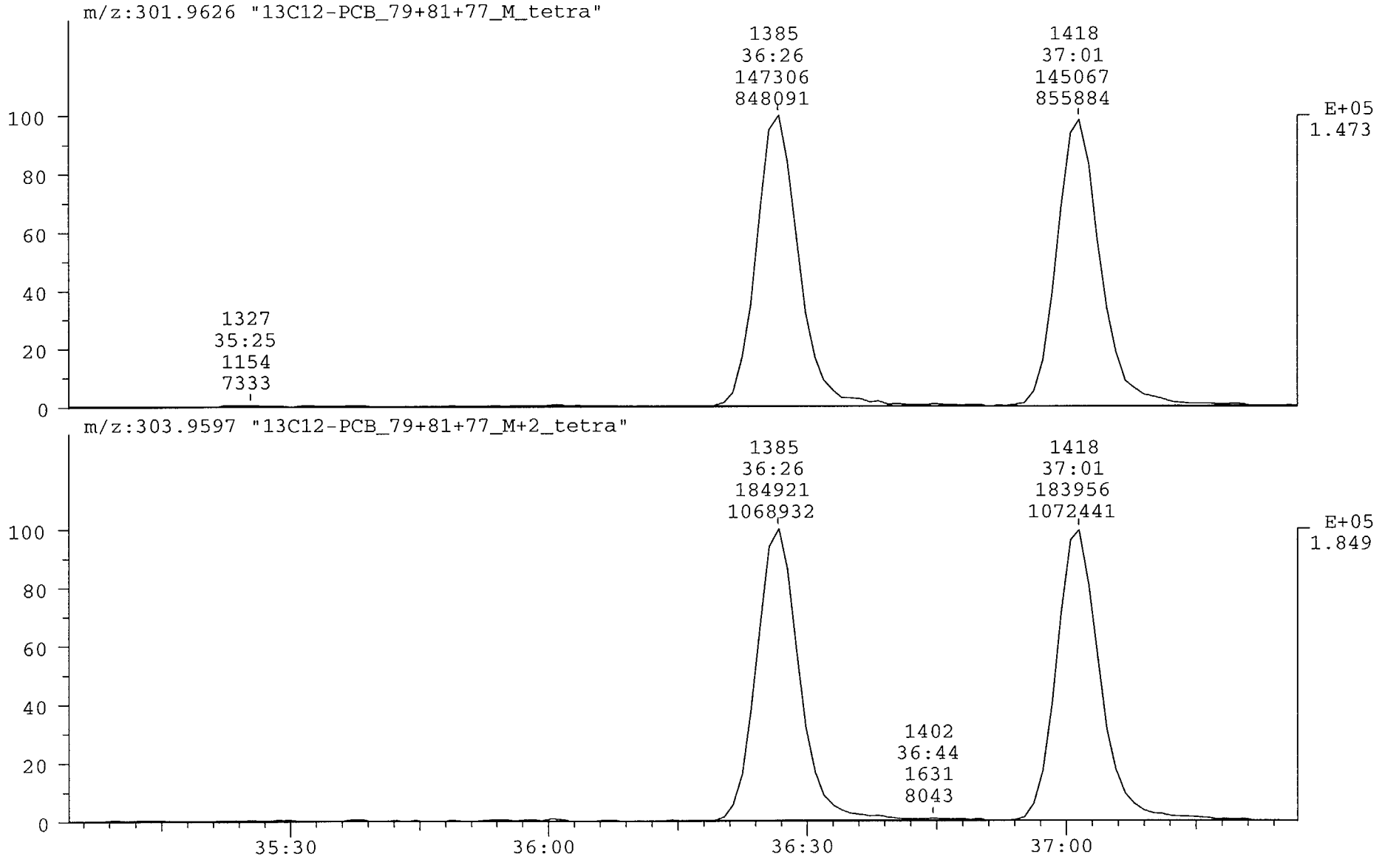
CHRO: aph2w5j1 18-Apr-06 Elapse: 29:40 1000
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 531 > 1473 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



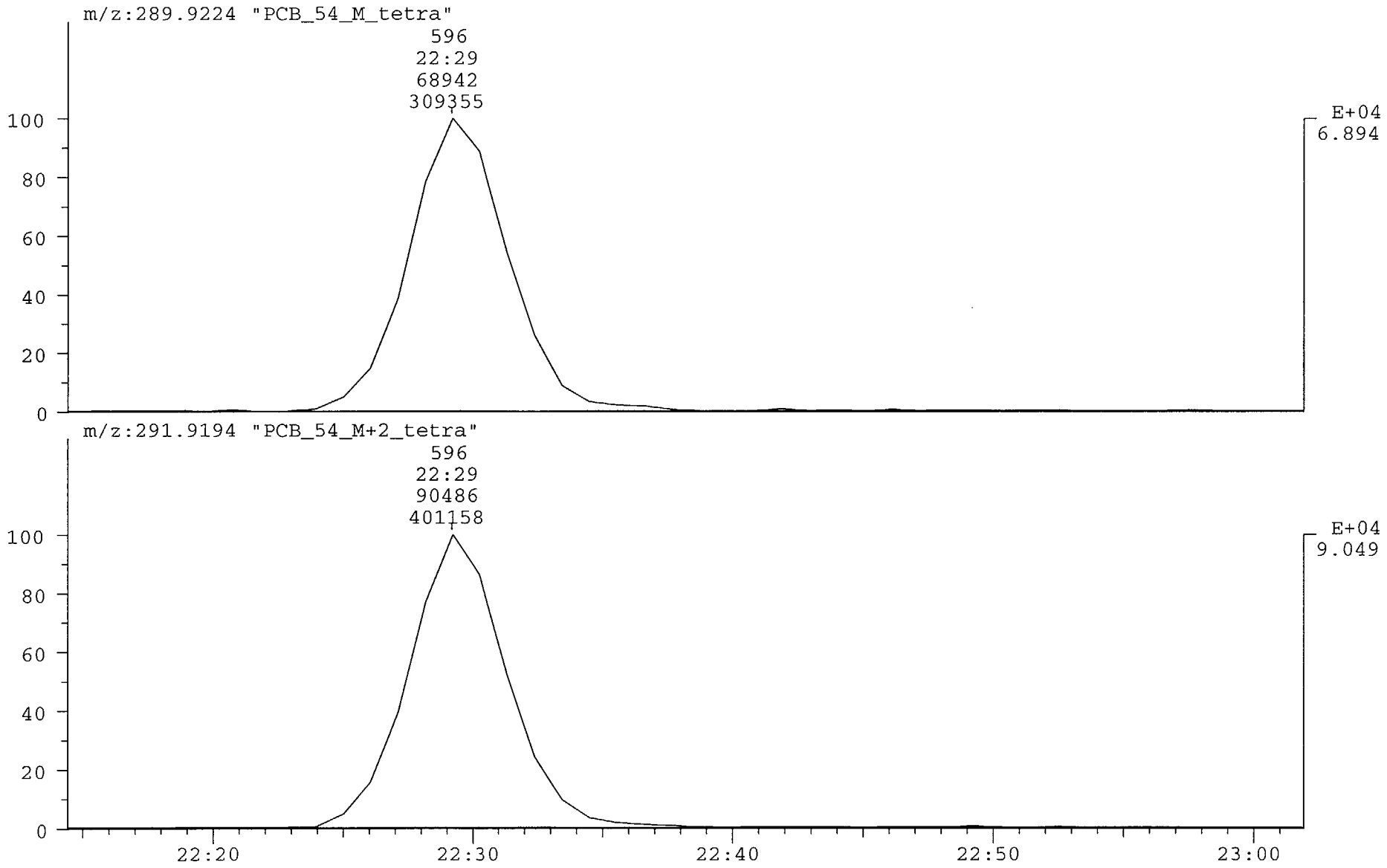
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  25:00.3     735
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L              Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   565 > 905           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



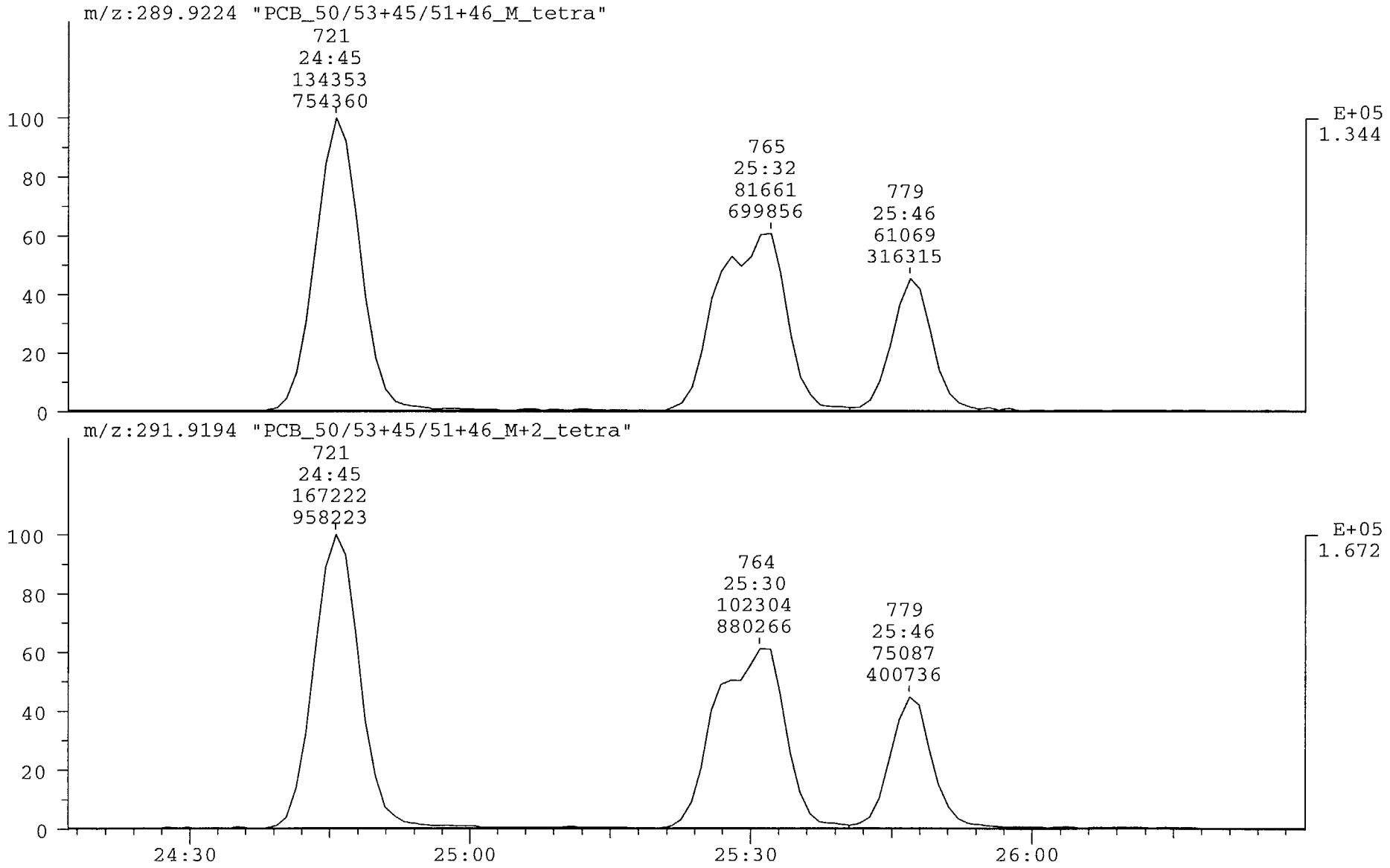
CHRO: aph2w5j1 18-Apr-06 Elapse: 36:18 1377
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1307 > 1442 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



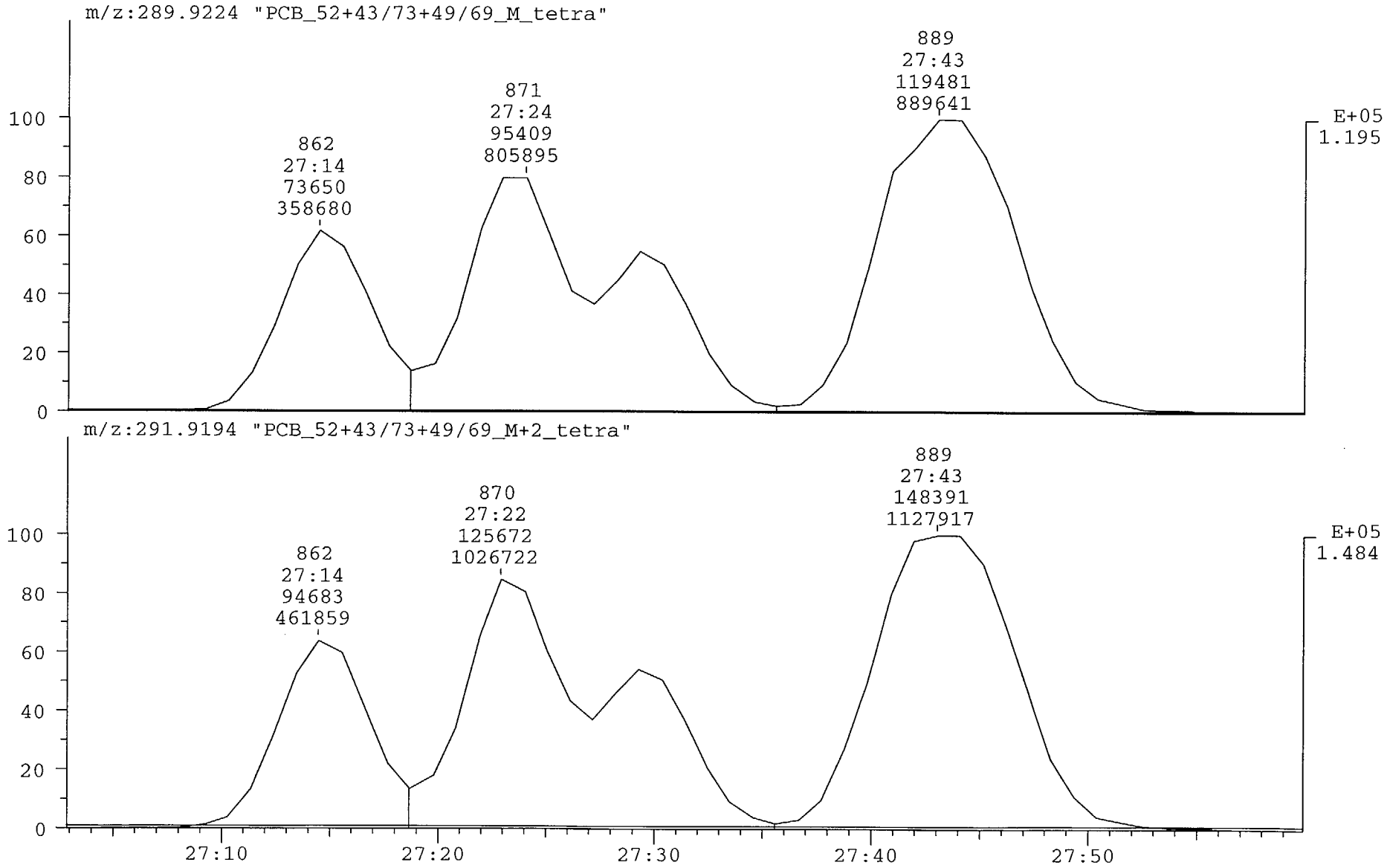
```
CHRO:  aph2w5j1                                18-Apr-06   Elapse:  22:35.5      602
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                   Start :  13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L               Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   582 > 627              Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



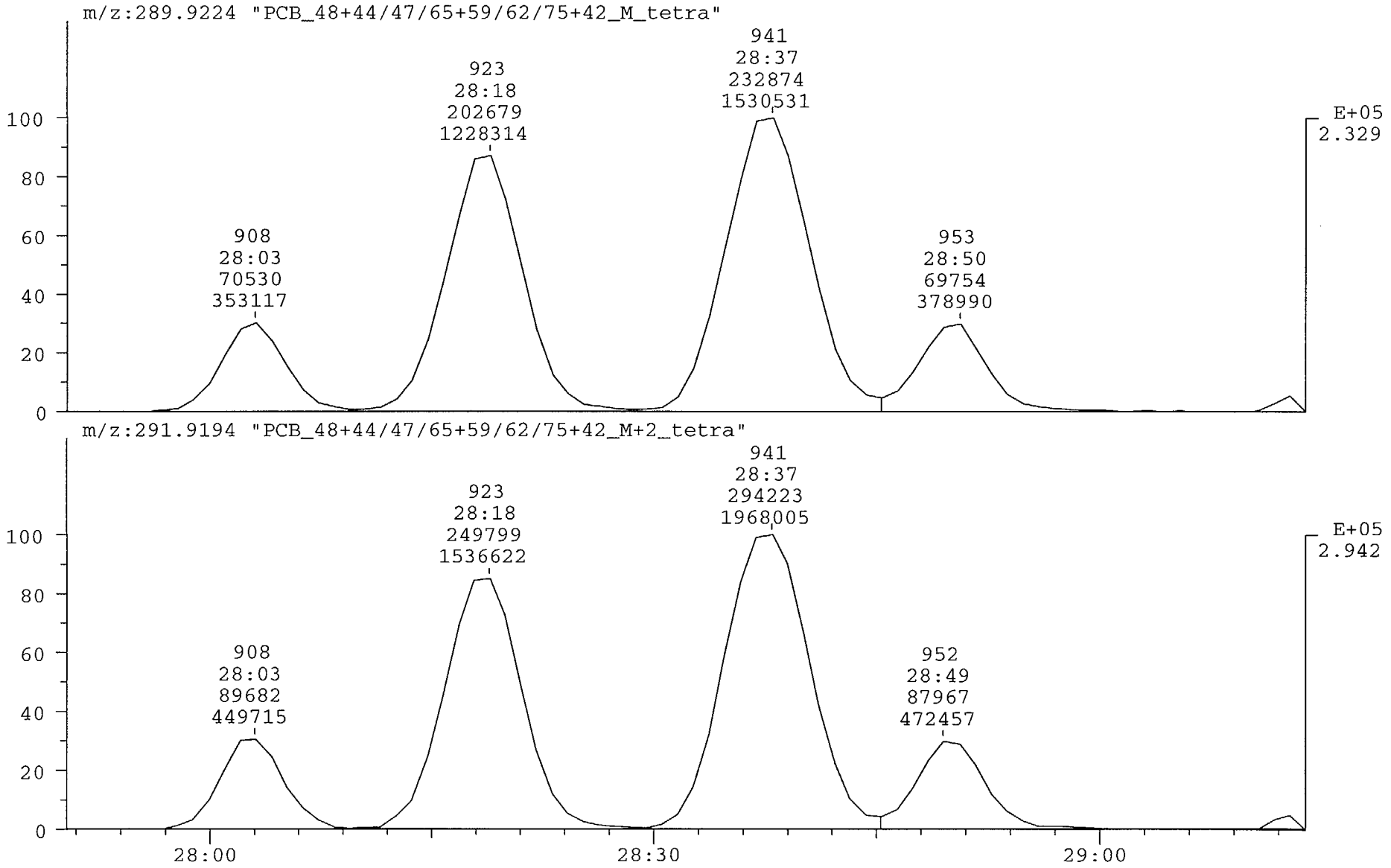
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  25:25.7     759
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L              Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   694 > 819           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 9              Label :  -3, 3.0
Disp:  Height  Area
```



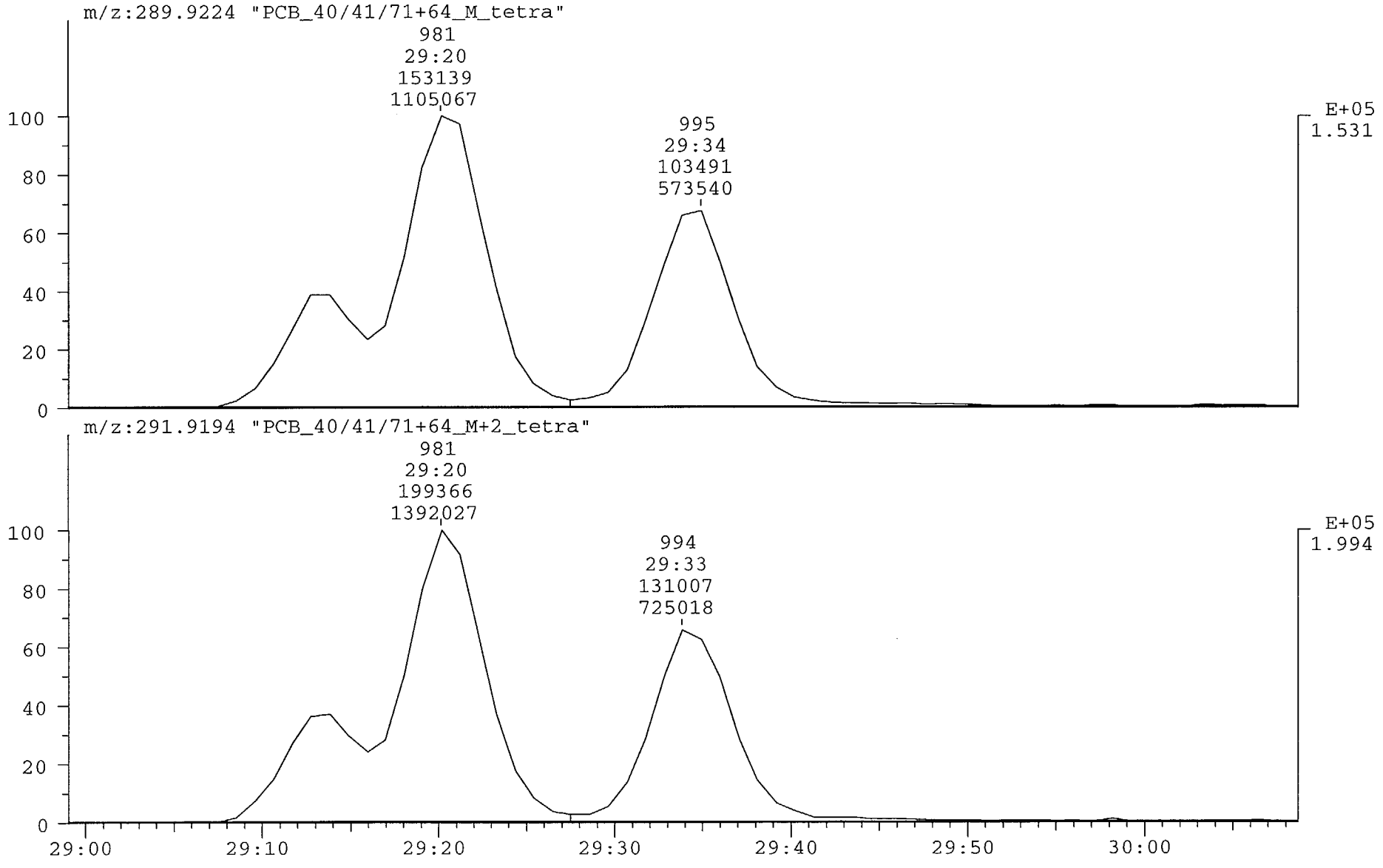
CHRO: aph2w5j1 18-Apr-06 Elapse: 27:37.7 884
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 851 > 905 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



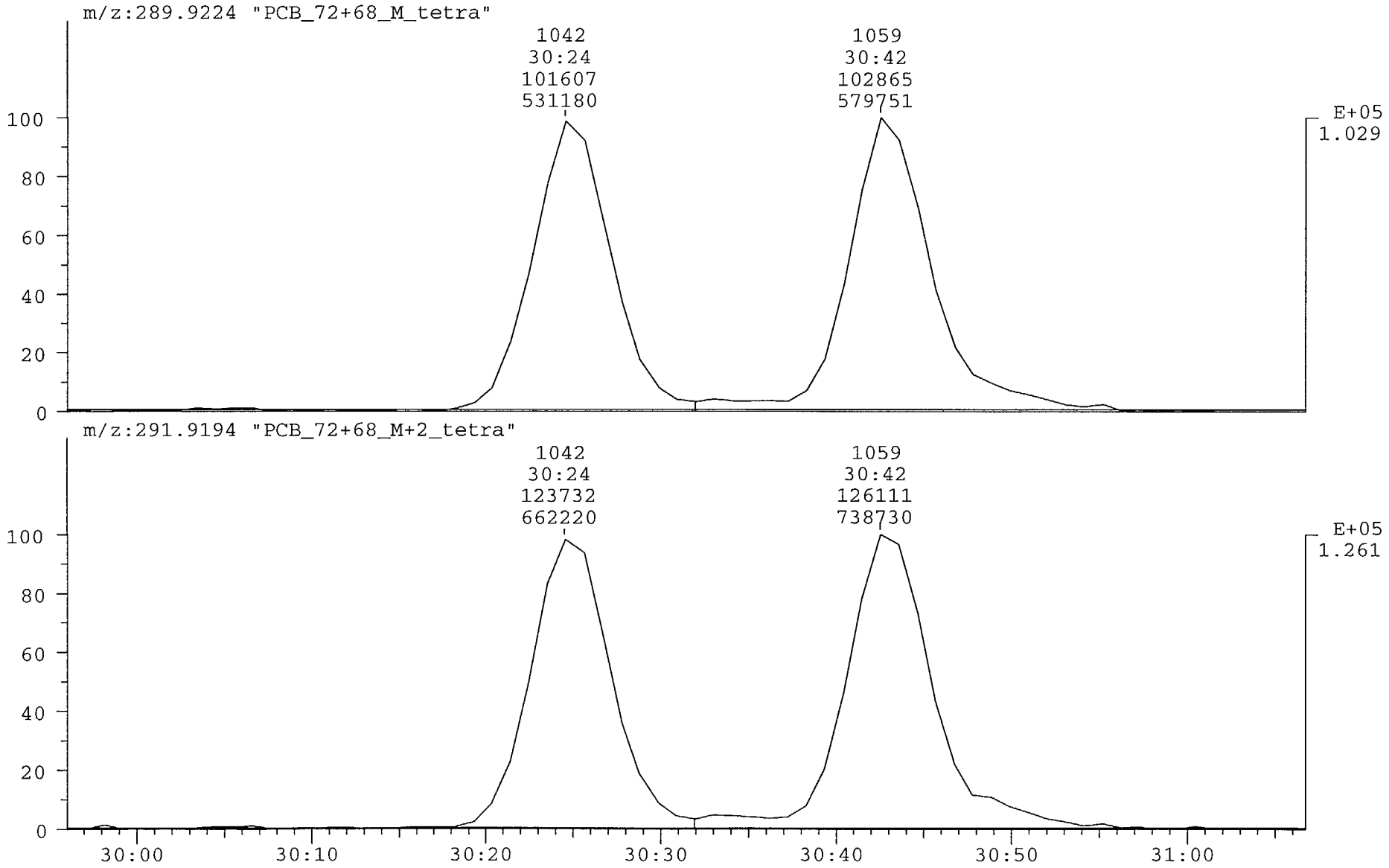
```
CHRO:  aph2w5j1                                18-Apr-06   Elapse:  28:35.8      939
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                   Start :  13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L               Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   896 > 975              Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



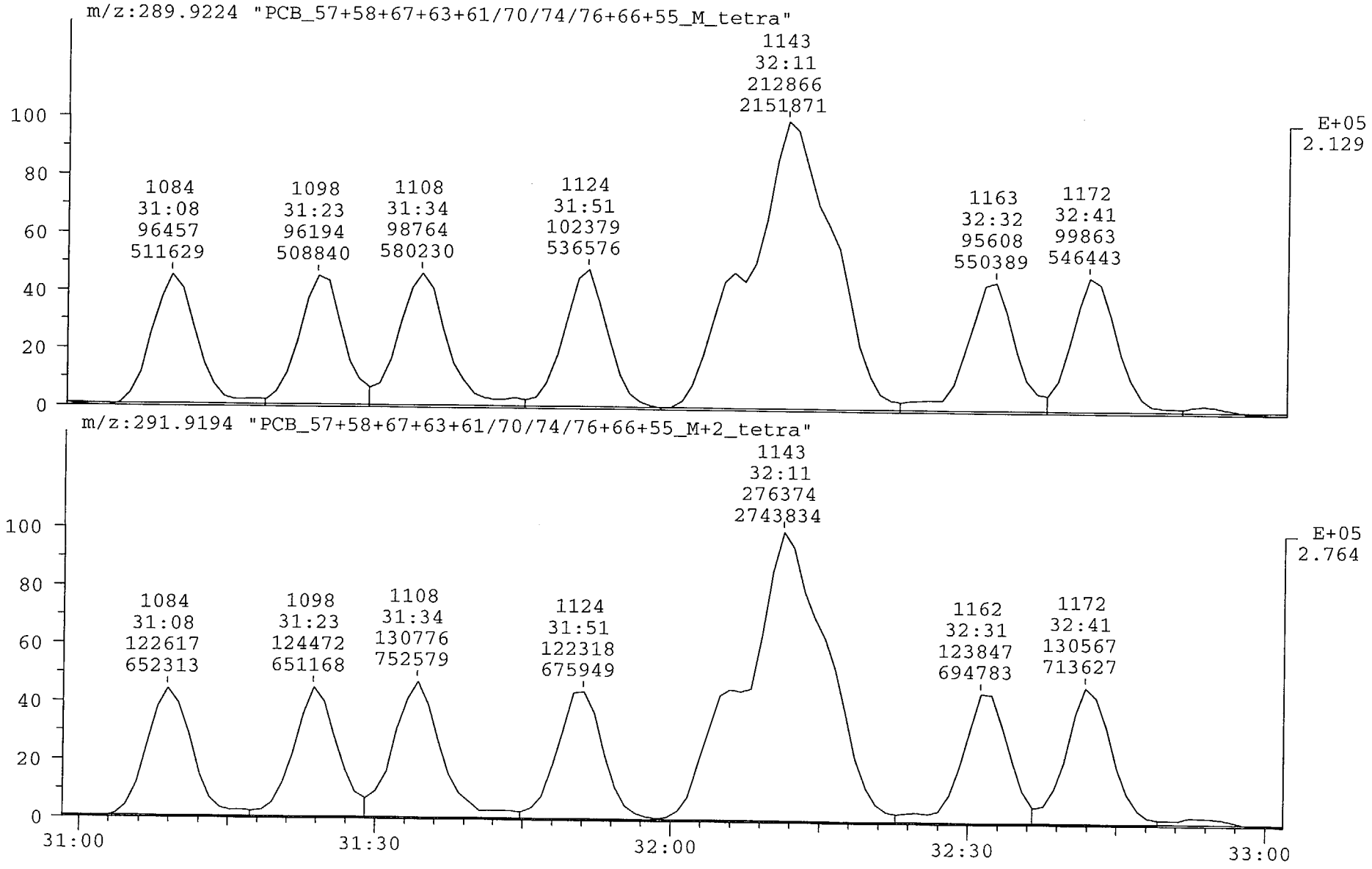
CHRO: aph2w5j1 18-Apr-06 Elapse: 29:37.0 997
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 961 > 1027 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



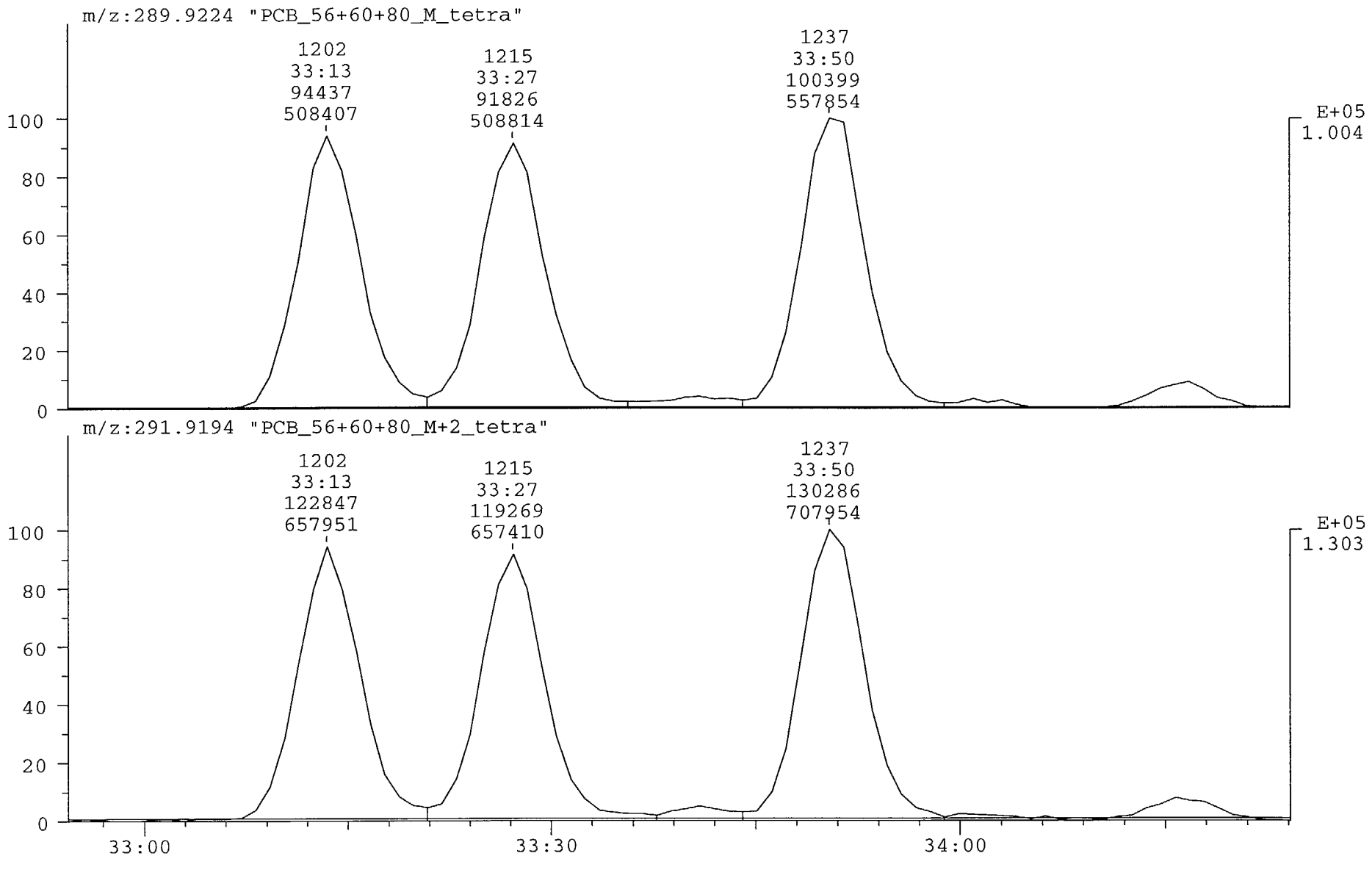
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  30:43      1060
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L            Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1015 > 1082        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



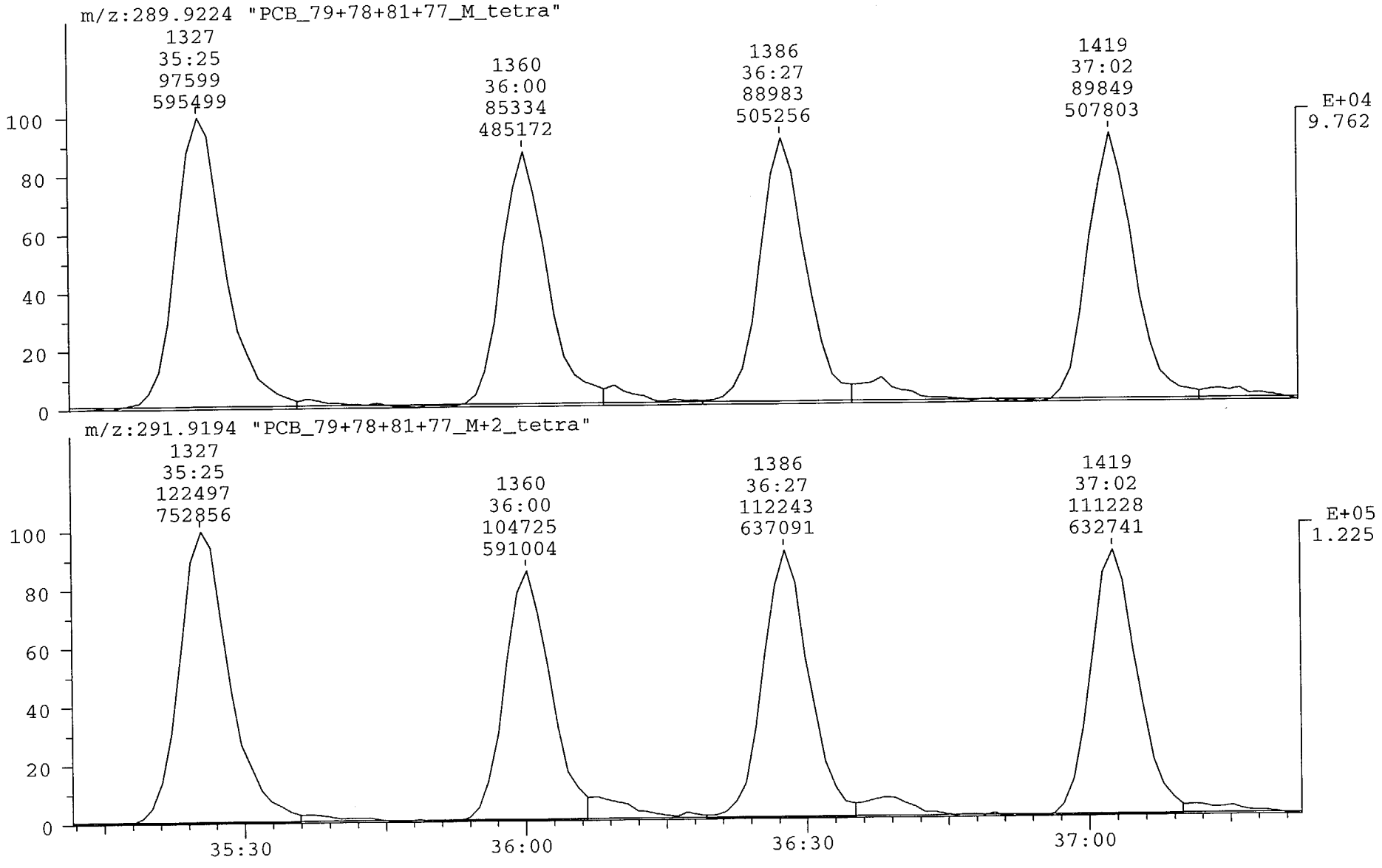
CHRO: aph2w5j1 18-Apr-06 Elapse: 32:03 1136
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1074 > 1191 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



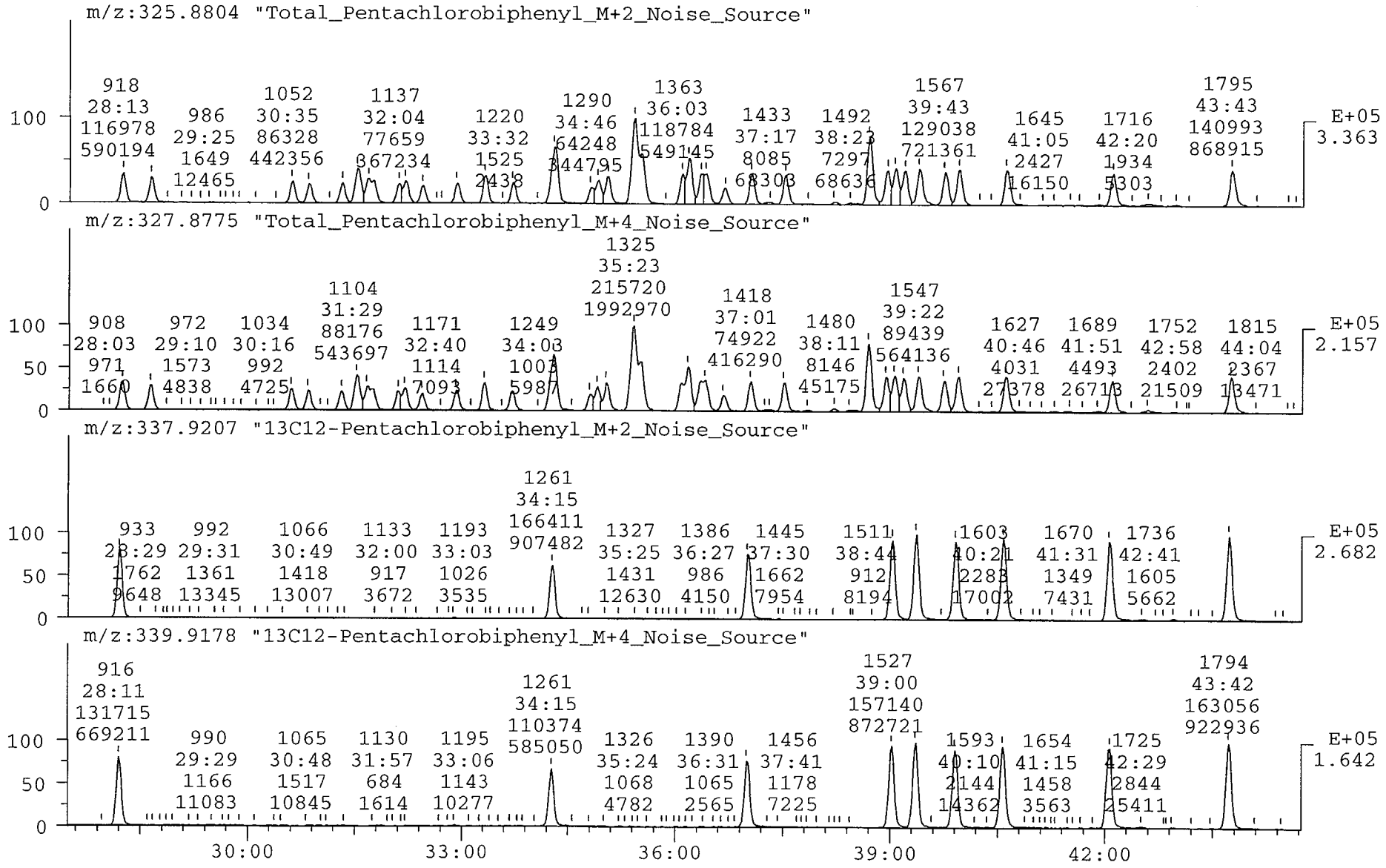
```
CHRO:  aph2w5j1                                18-Apr-06   Elapse:   33:39      1227
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                   Start :   13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :   6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L               Inlet :   GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1184 > 1269          Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -3, 3.0
Disp:  Height  Area
```



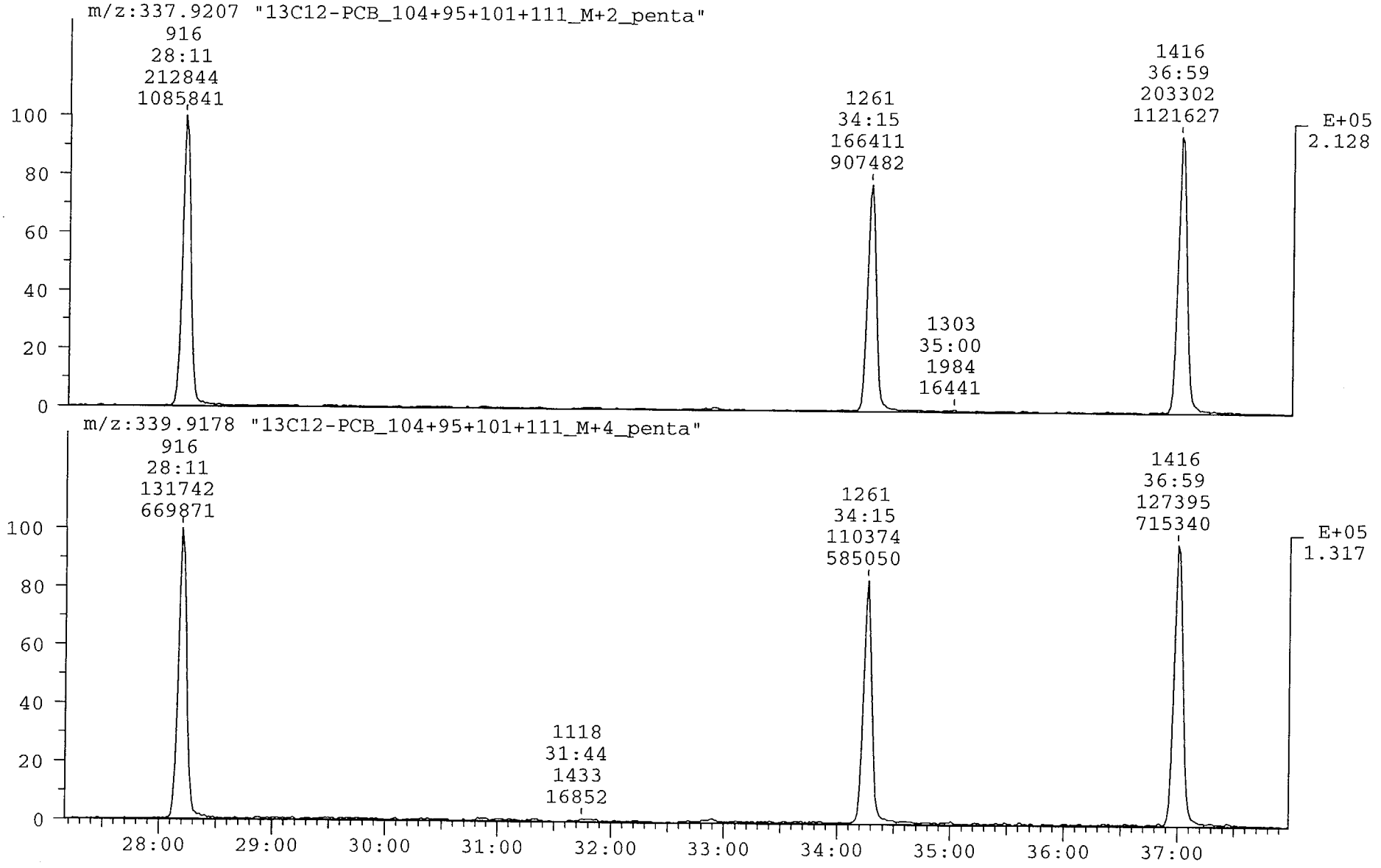
CHRO: aph2w5j1 18-Apr-06 Elapse: 36:19 1378
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1314 > 1438 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



CHRO: aph2w5j1 18-Apr-06 Elapse: 36:06 1366
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 876 > 1852 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

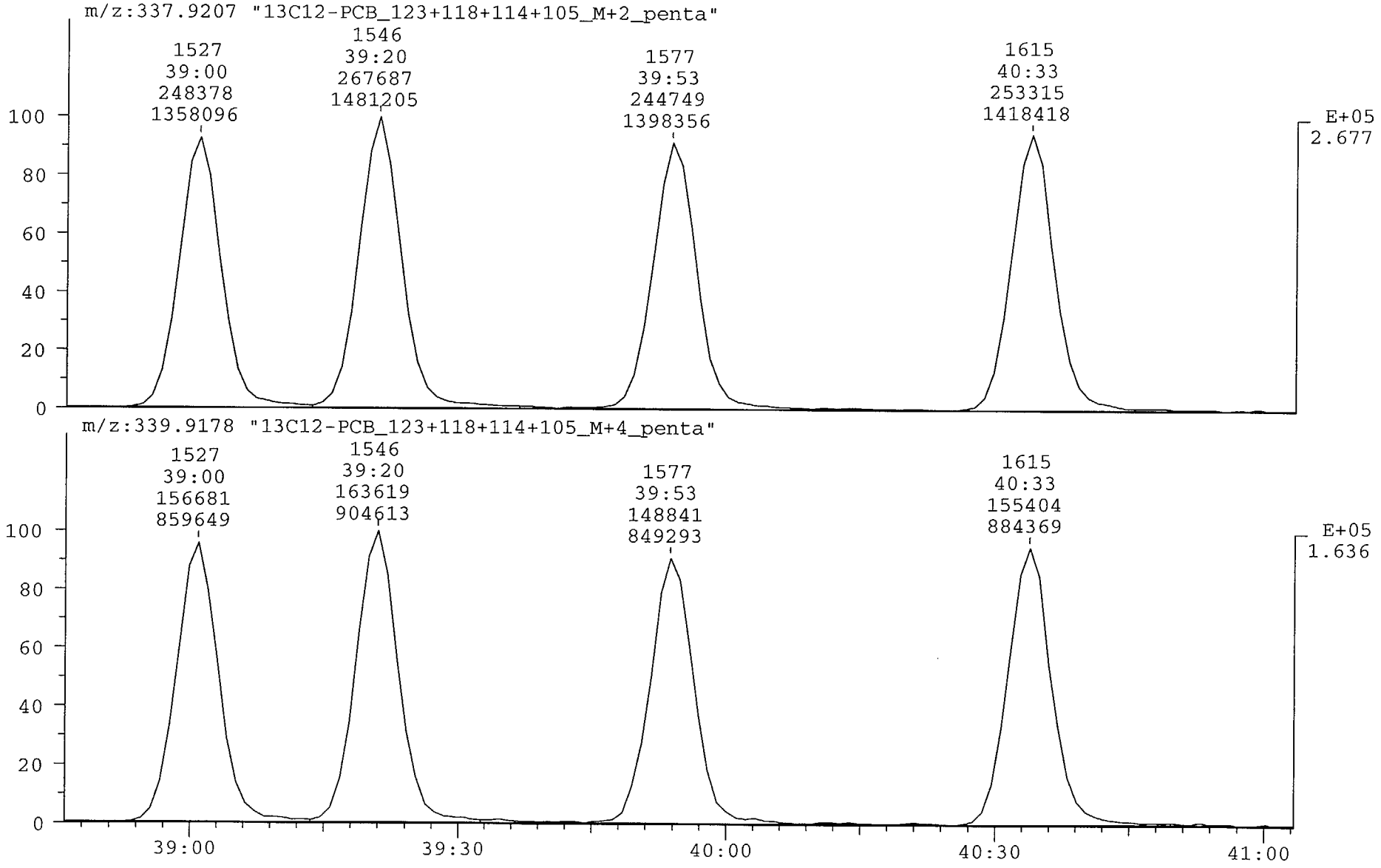


CHRO: aph2w5j1 18-Apr-06 Elapse: 32:34 1165
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 858 > 1473 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

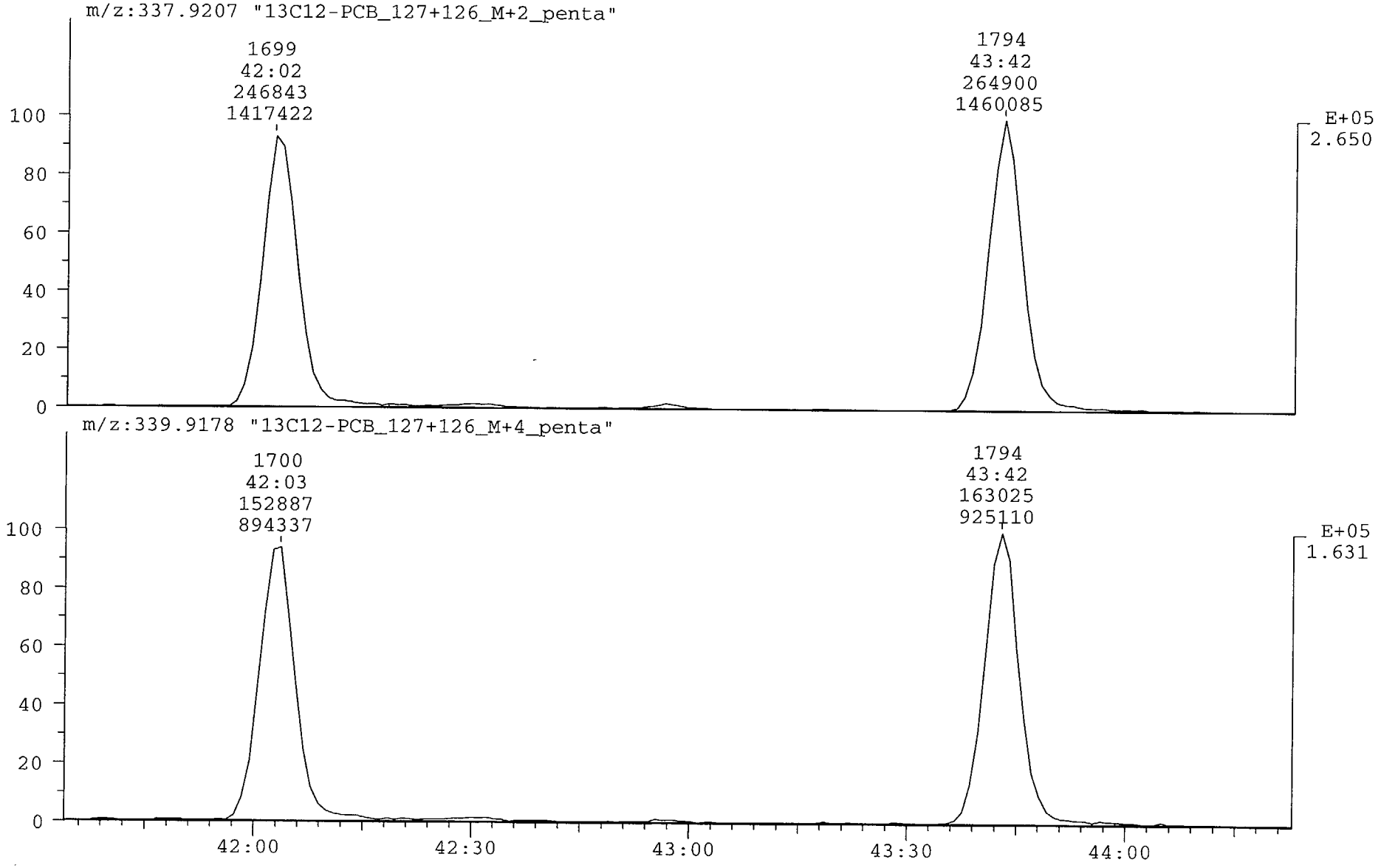


3092

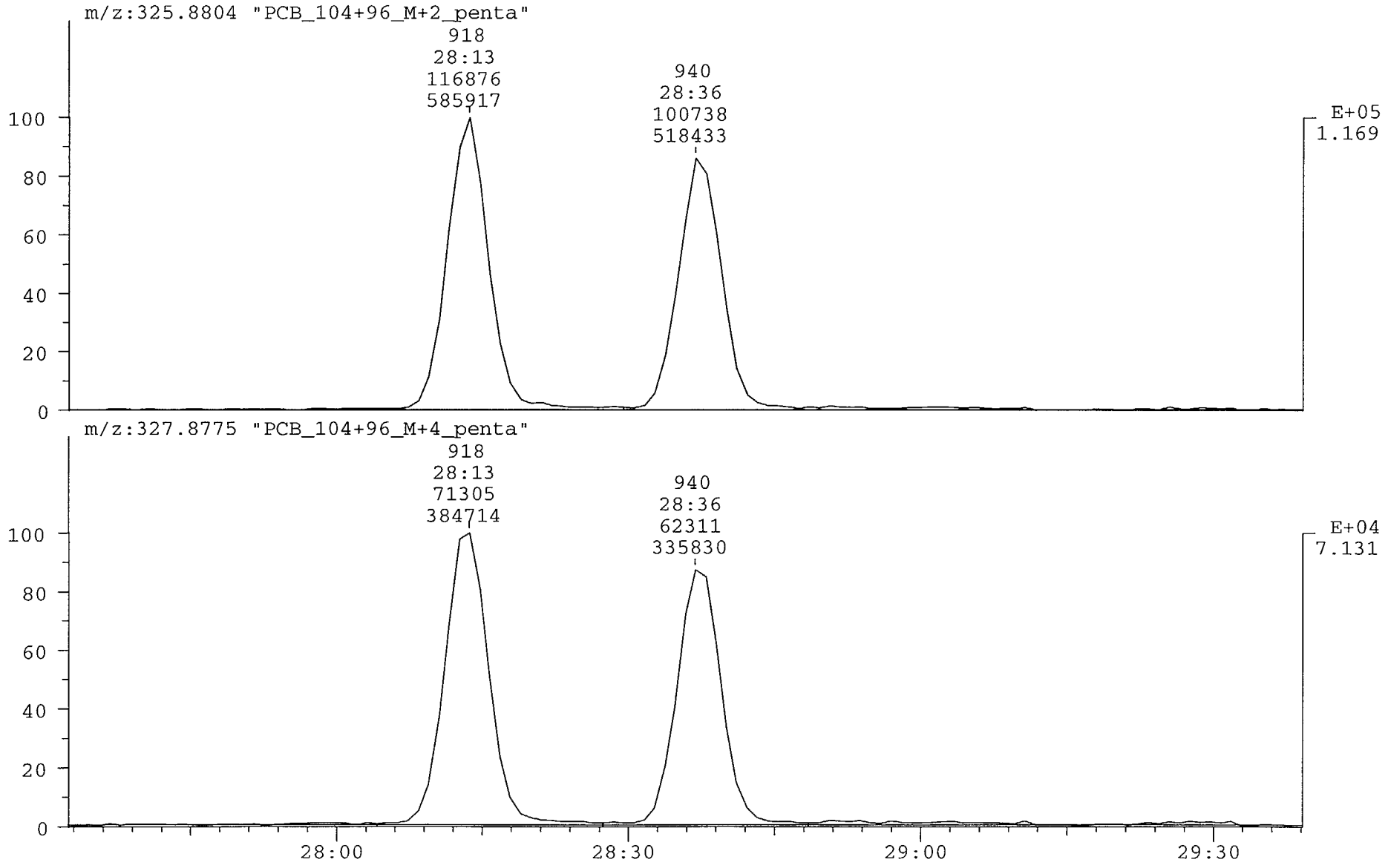
CHRO: aph2w5j1 18-Apr-06 Elapse: 39:54 1578
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1513 > 1643 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



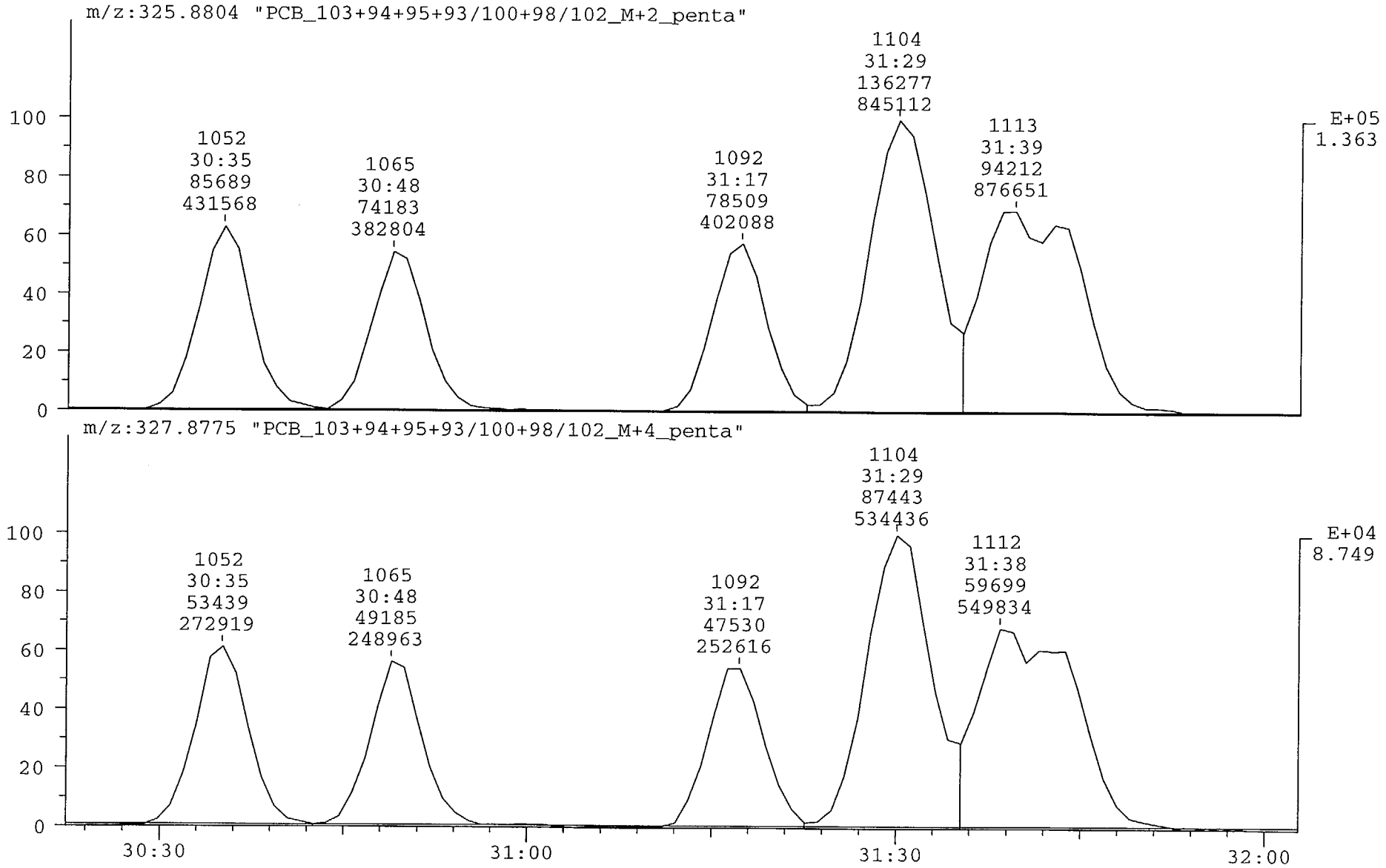
CHRO: aph2w5j1 18-Apr-06 Elapse: 42:58 1752
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1672 > 1832 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



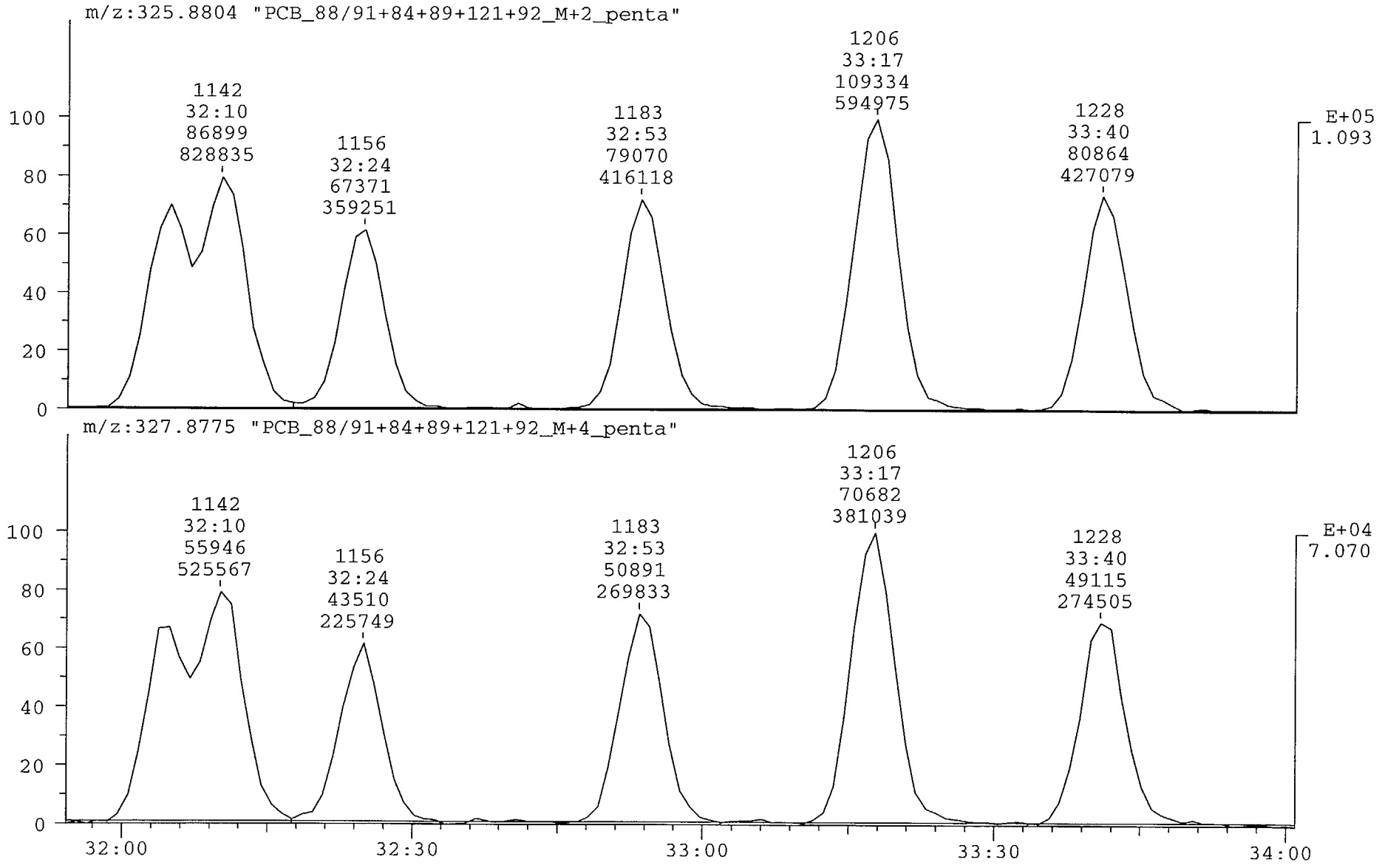
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  28:35.8      939
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L             Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   879 > 999           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



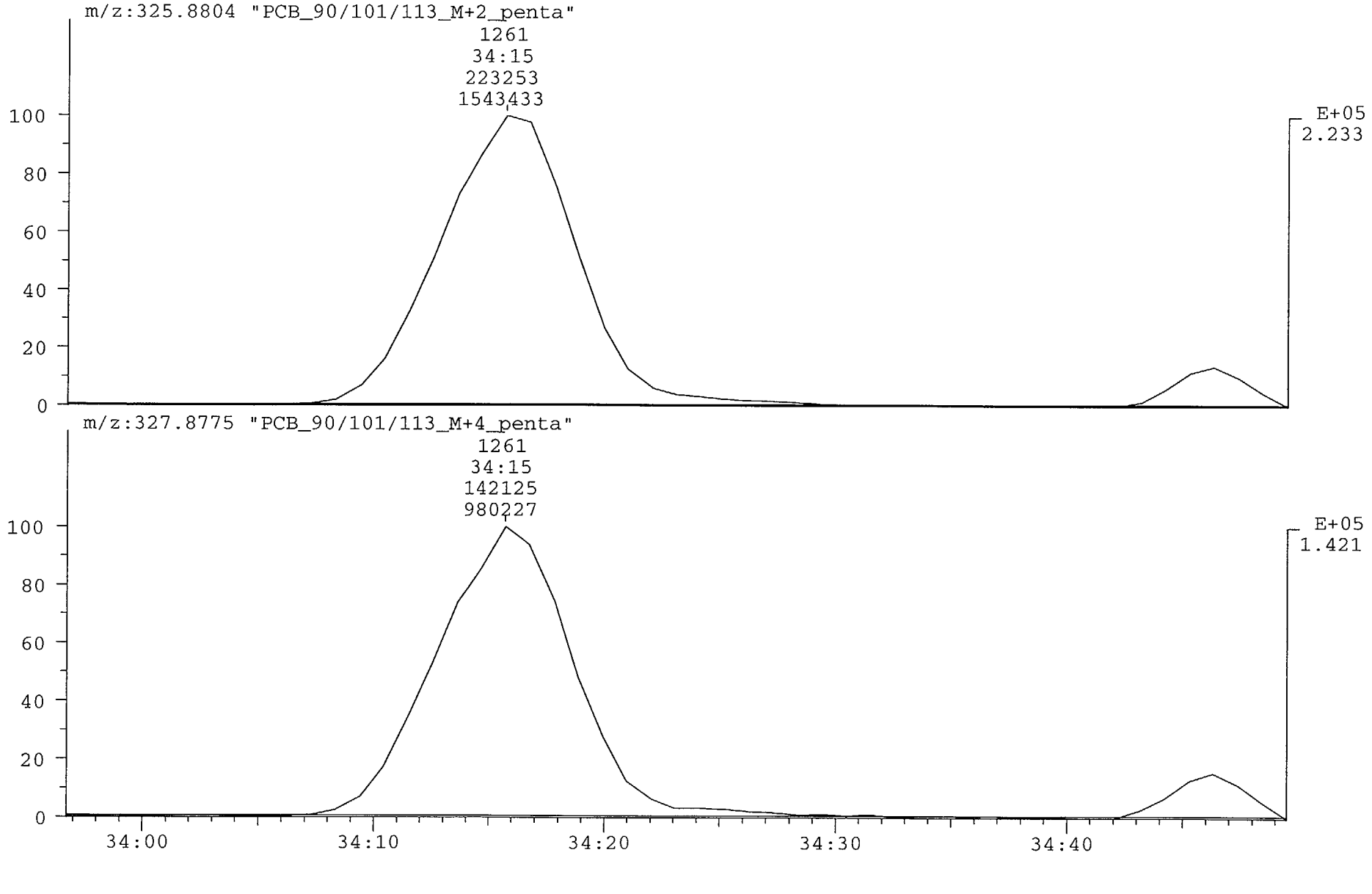
```
CHRO:  aph2w5j1                                  18-Apr-06   Elapse:   31:17      1092
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                     Start :   13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L                Inlet :   GC     Vial   5
Peak:  100.00  ppm     Label wndw:   1040 > 1135            Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5                 Label :   -3, 3.0
Disp:  Height  Area
```



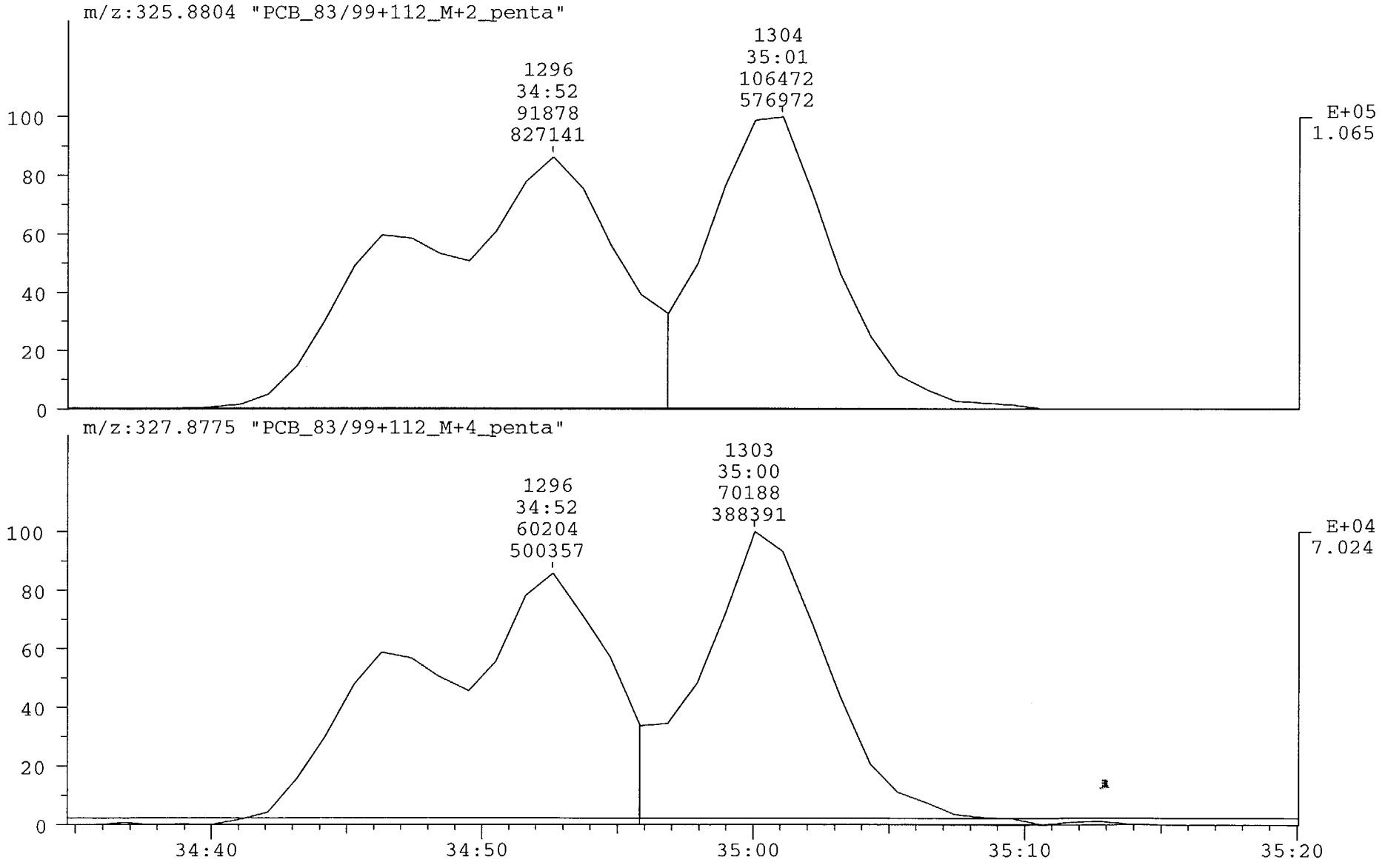
CHRO: aph2w5j1 18-Apr-06 Elapse: 33:05 1194
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1127 > 1247 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



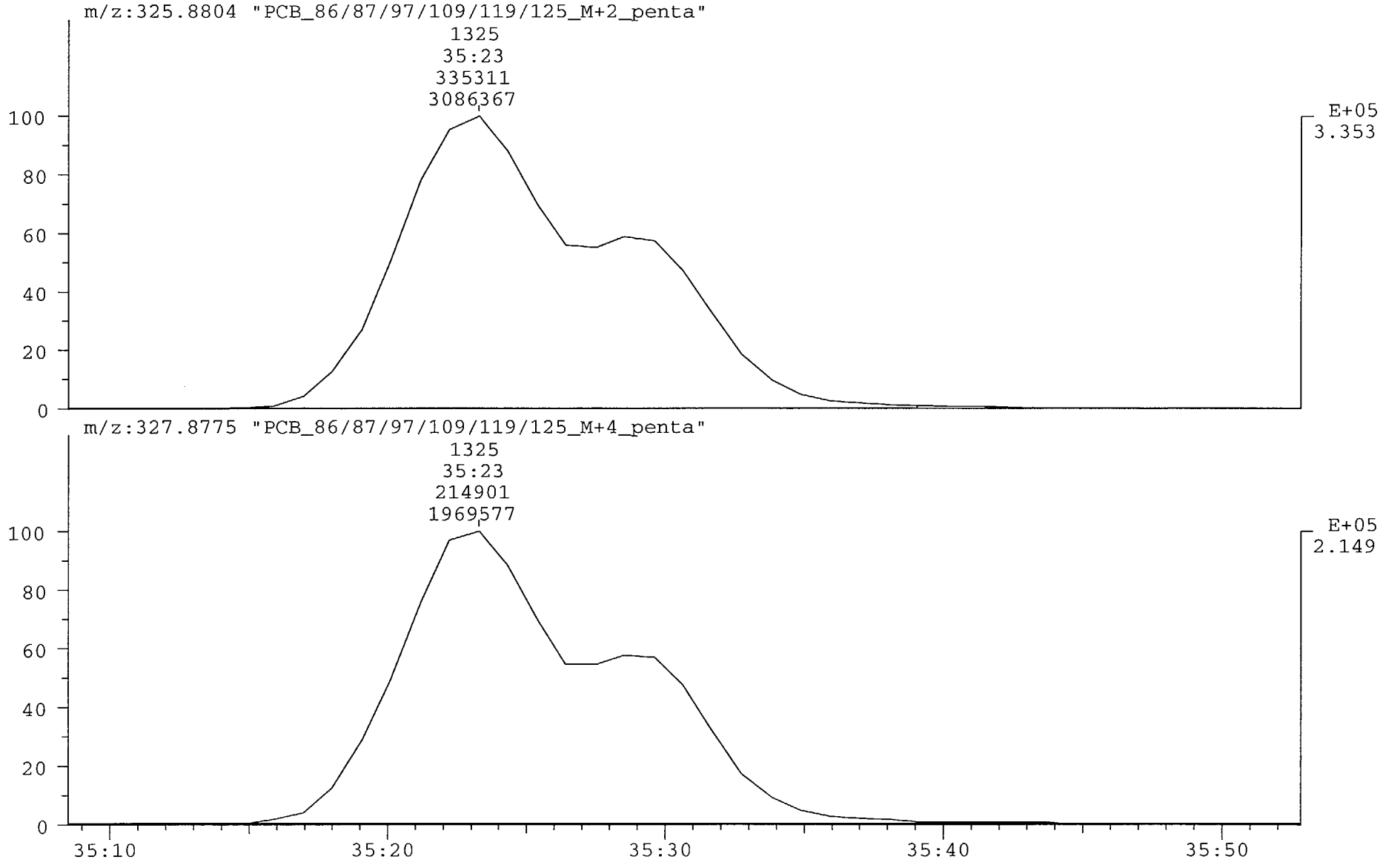
CHRO: aph2w5j1 18-Apr-06 Elapse: 34:23 1268
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1243 > 1293 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



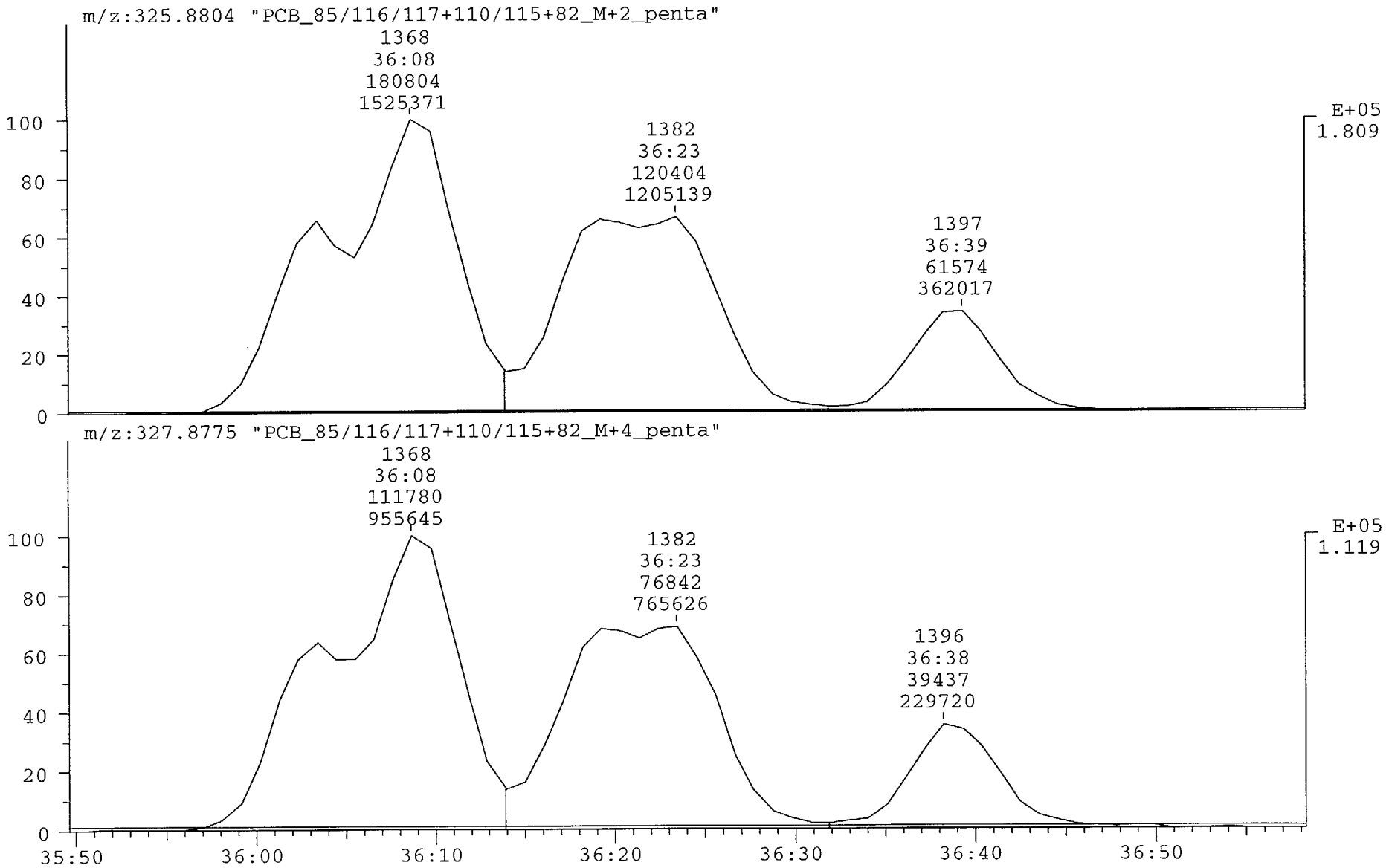
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  35:06      1309
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L             Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1279 > 1322        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5            Label :  -3, 3.0
Disp:  Height  Area
```



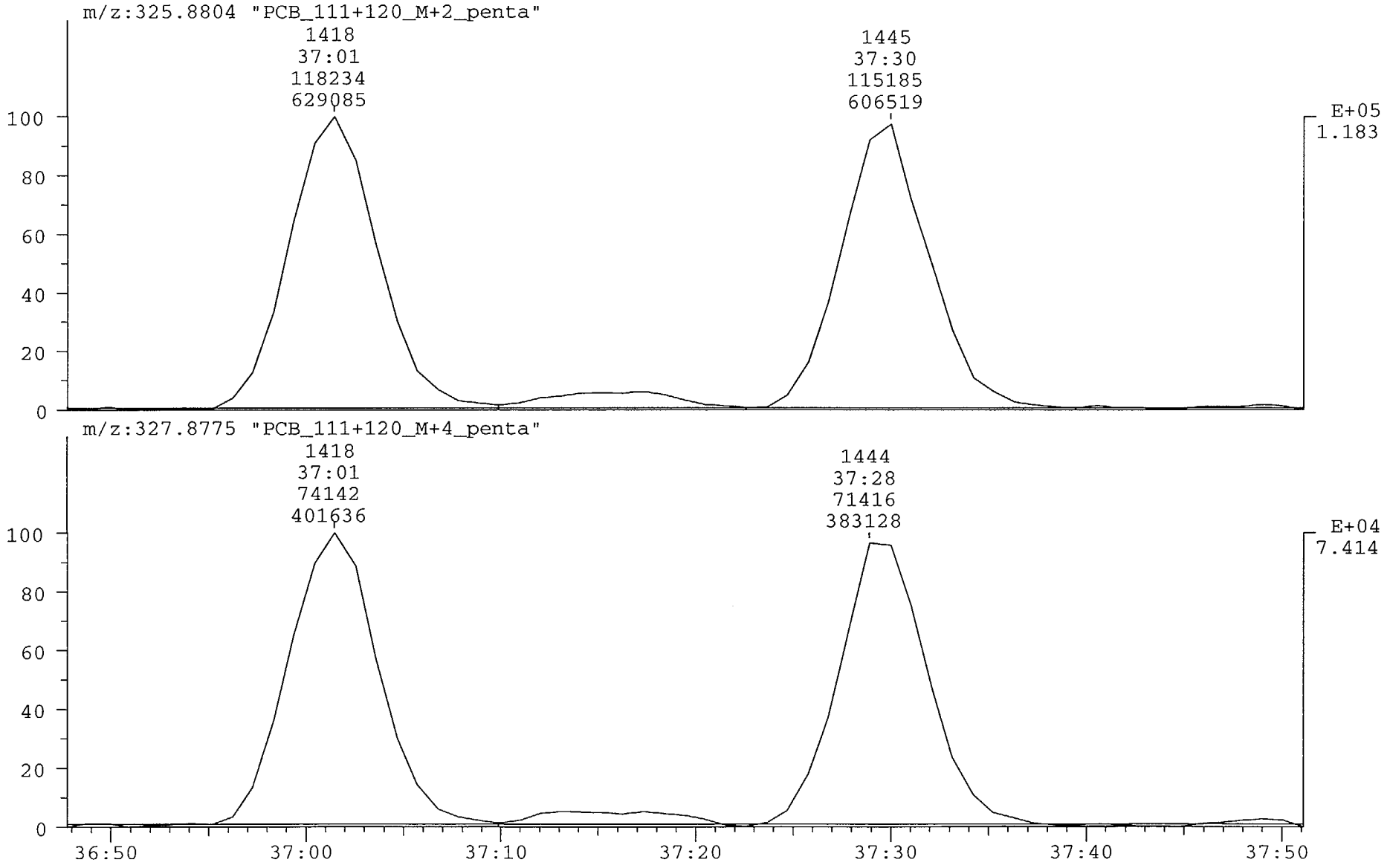
CHRO: aph2w5j1 18-Apr-06 Elapse: 35:28 1330
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1311 > 1353 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



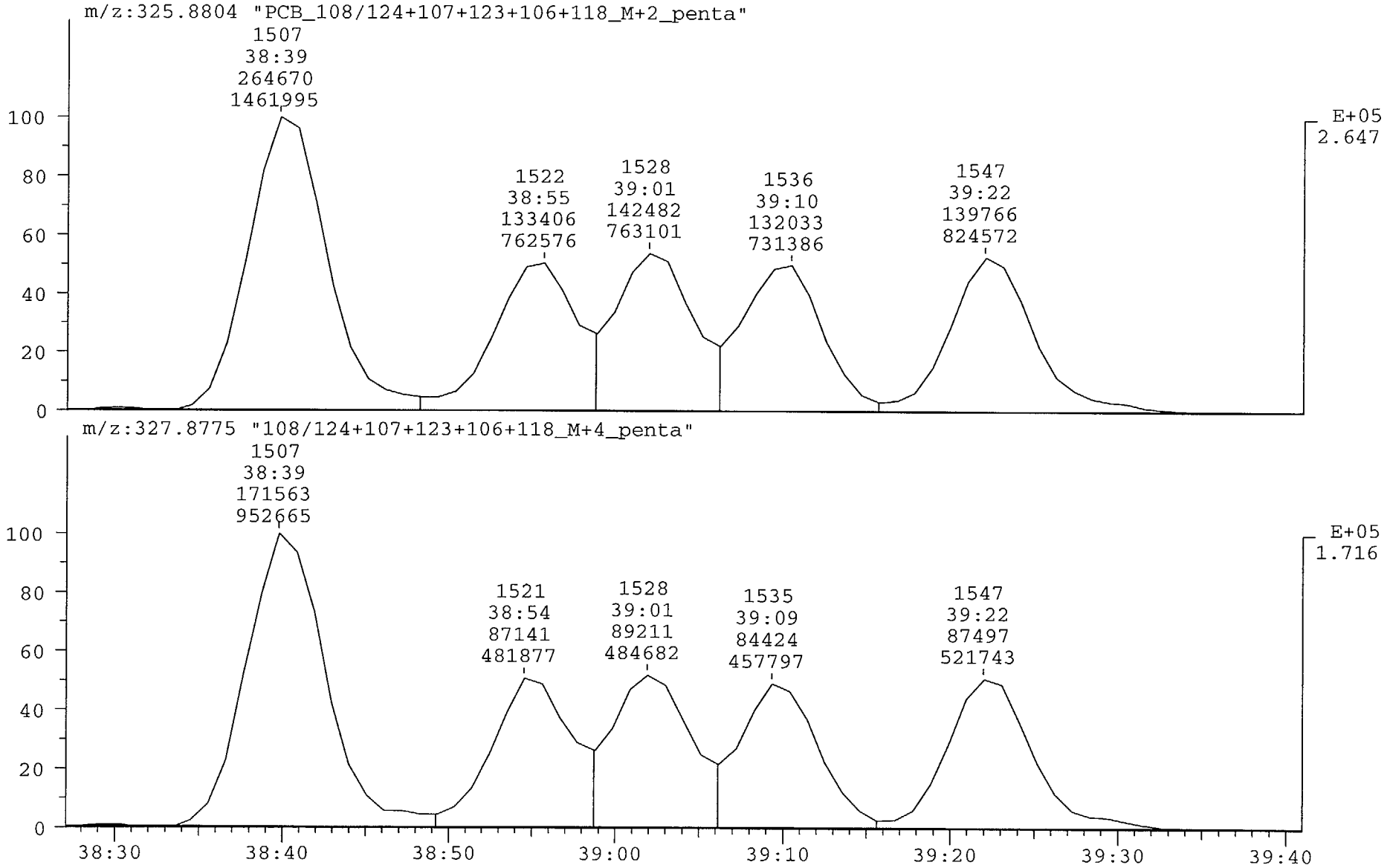
CHRO: aph2w5j1 18-Apr-06 Elapse: 36:31 1390
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1350 > 1415 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 6 Label : -3, 3.0
Disp: Height Area



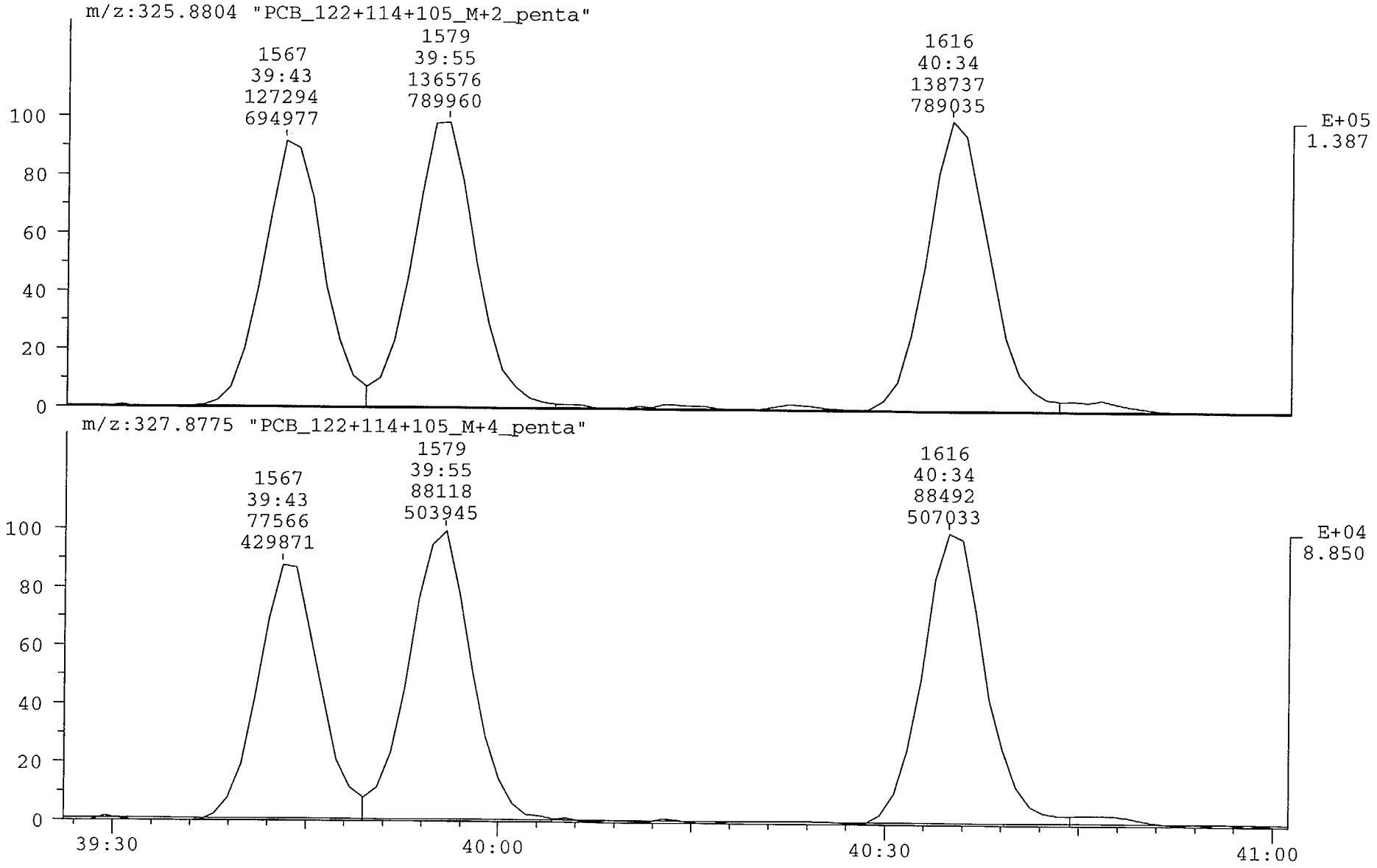
CHRO: aph2w5j1 18-Apr-06 Elapse: 37:08 1425
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1405 > 1465 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



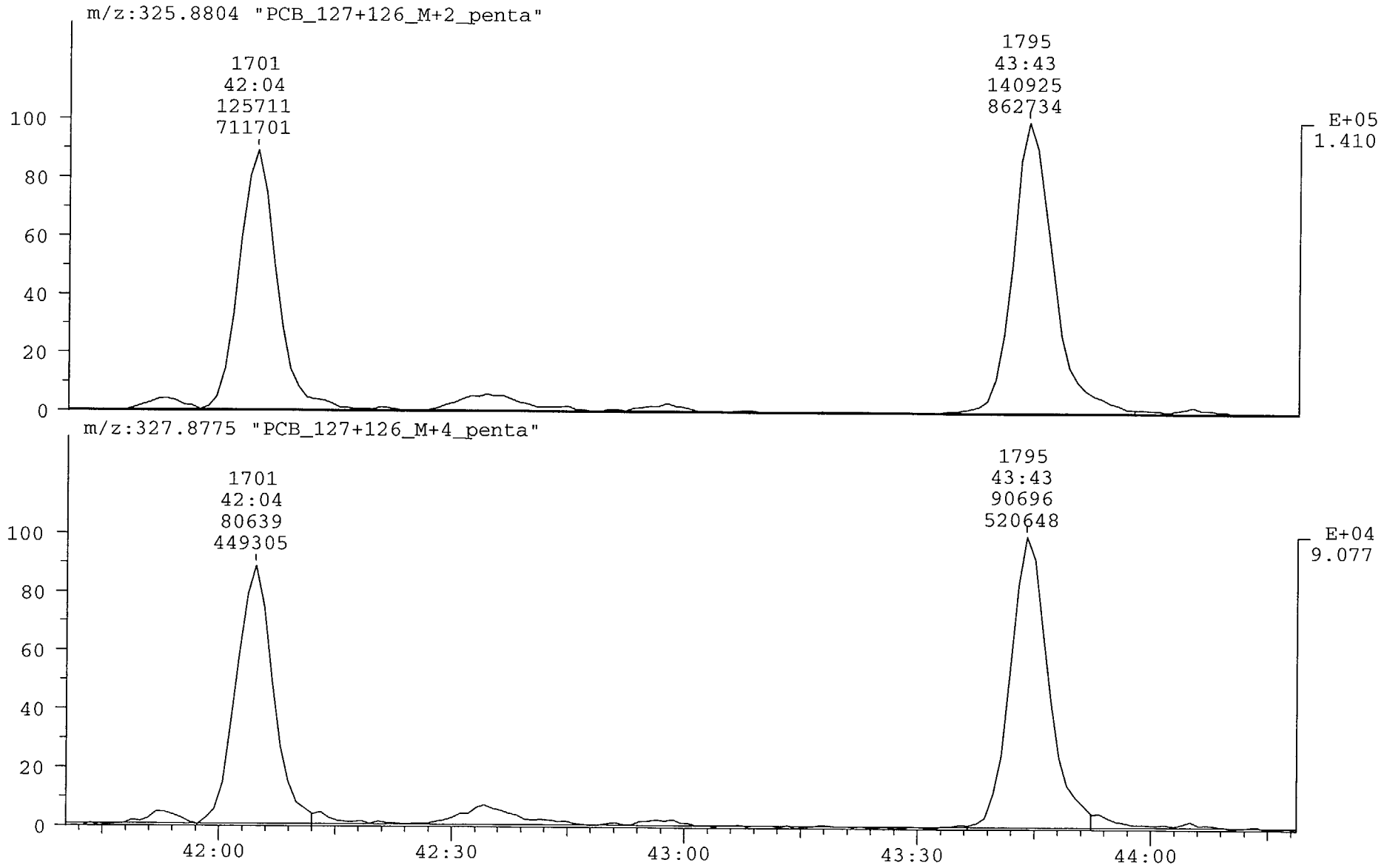
```
CHRO:  aph2w5j1                                  18-Apr-06   Elapse:  39:09      1535
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                     Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L                 Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1495 > 1565             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                  Label :  -3, 3.0
Disp:  Height  Area
```



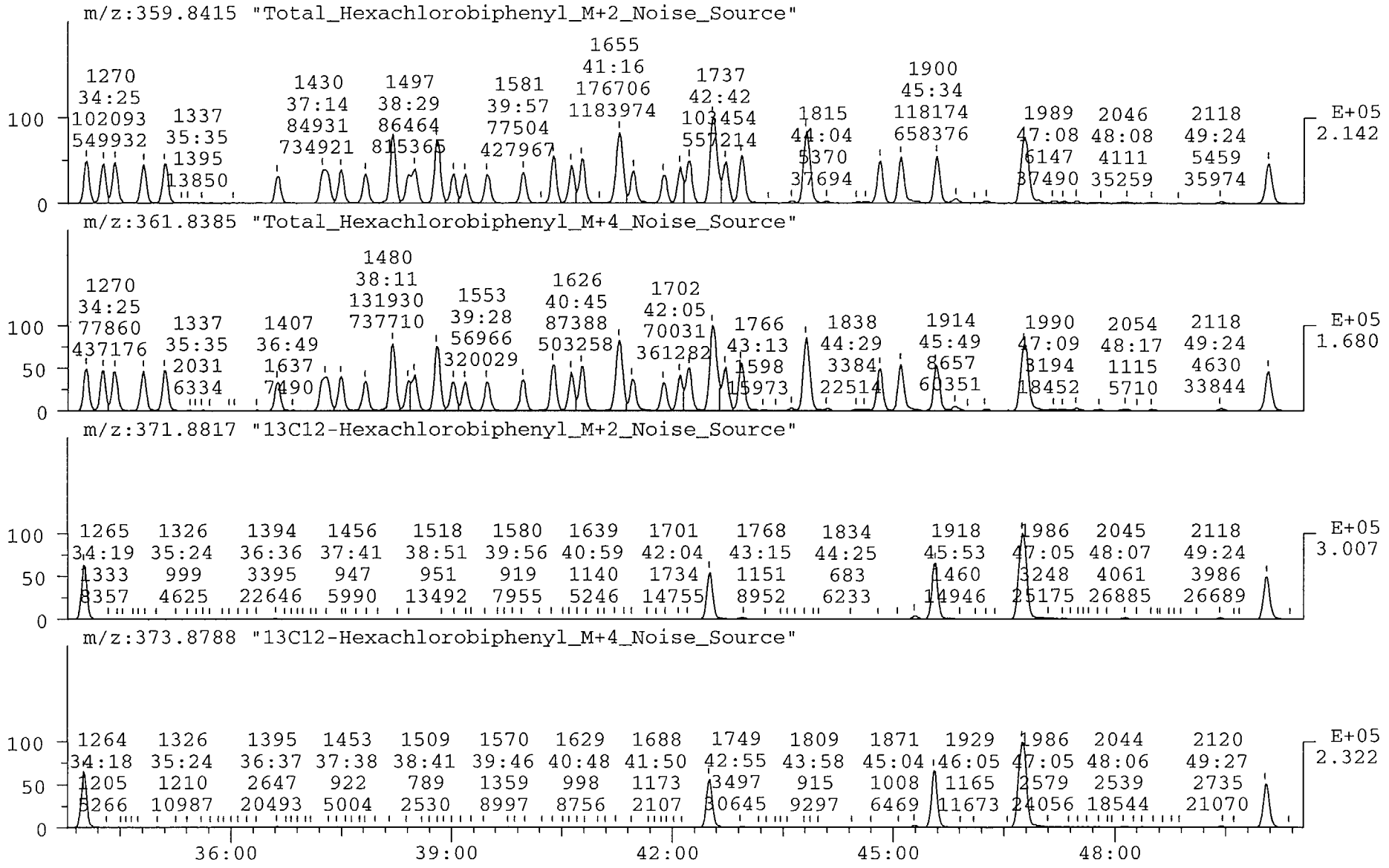
CHRO: aph2w5j1 18-Apr-06 Elapse: 40:15 1598
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1551 > 1641 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



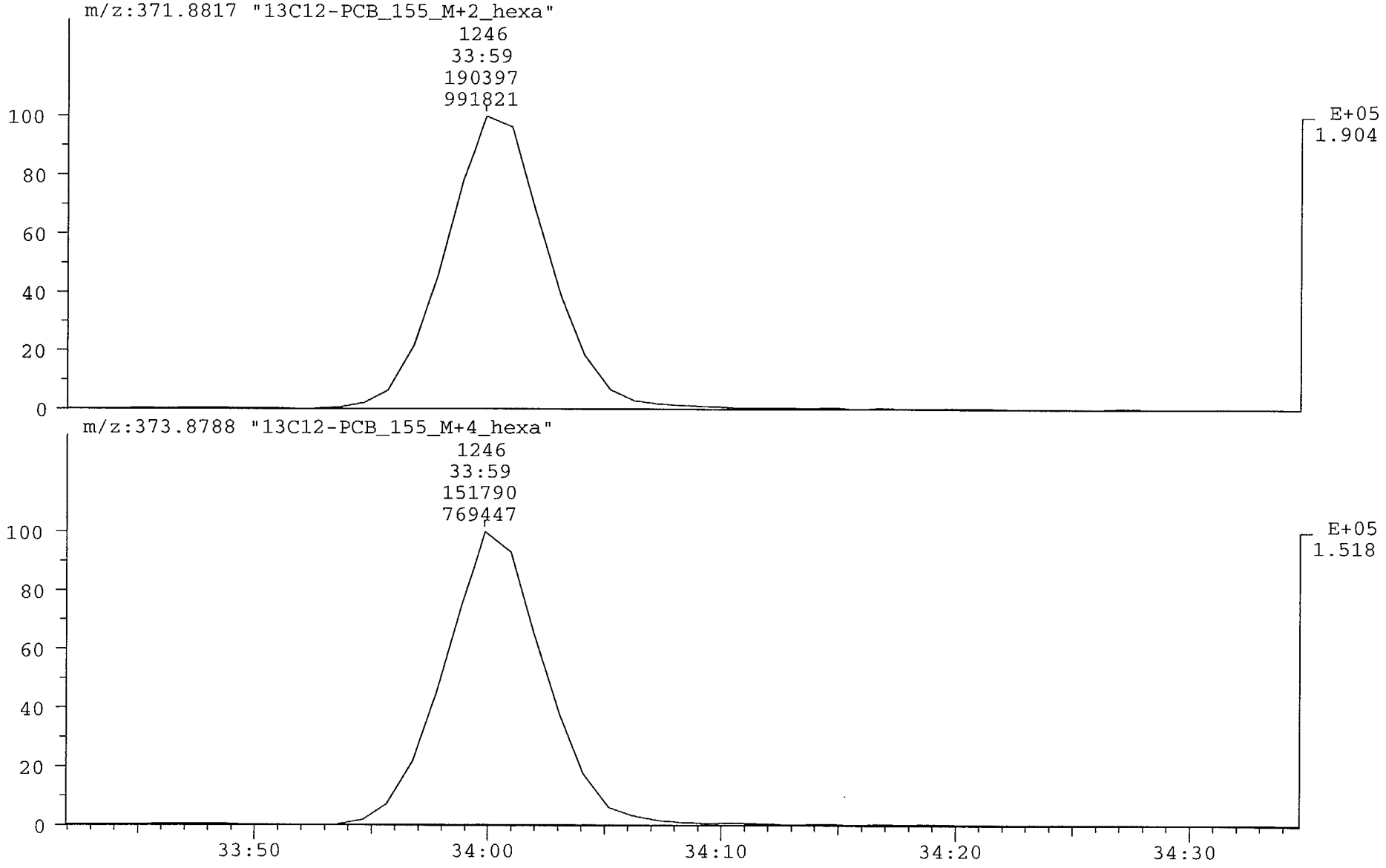
CHRO: aph2w5j1 18-Apr-06 Elapse: 42:59 1753
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1678 > 1828 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



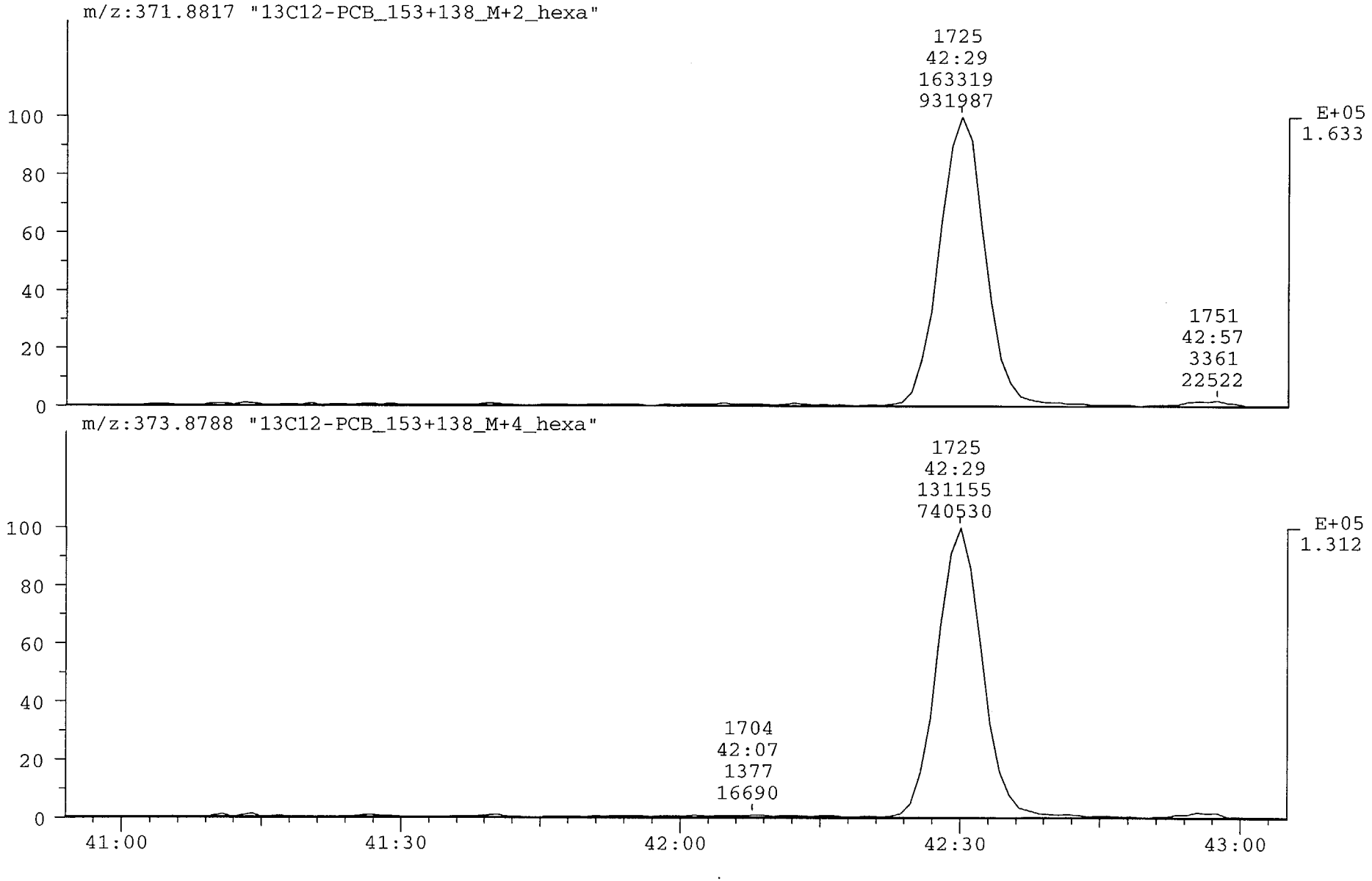
CHRO: aph2w5j1 18-Apr-06 Elapse: 42:09 1706
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1234 > 2182 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



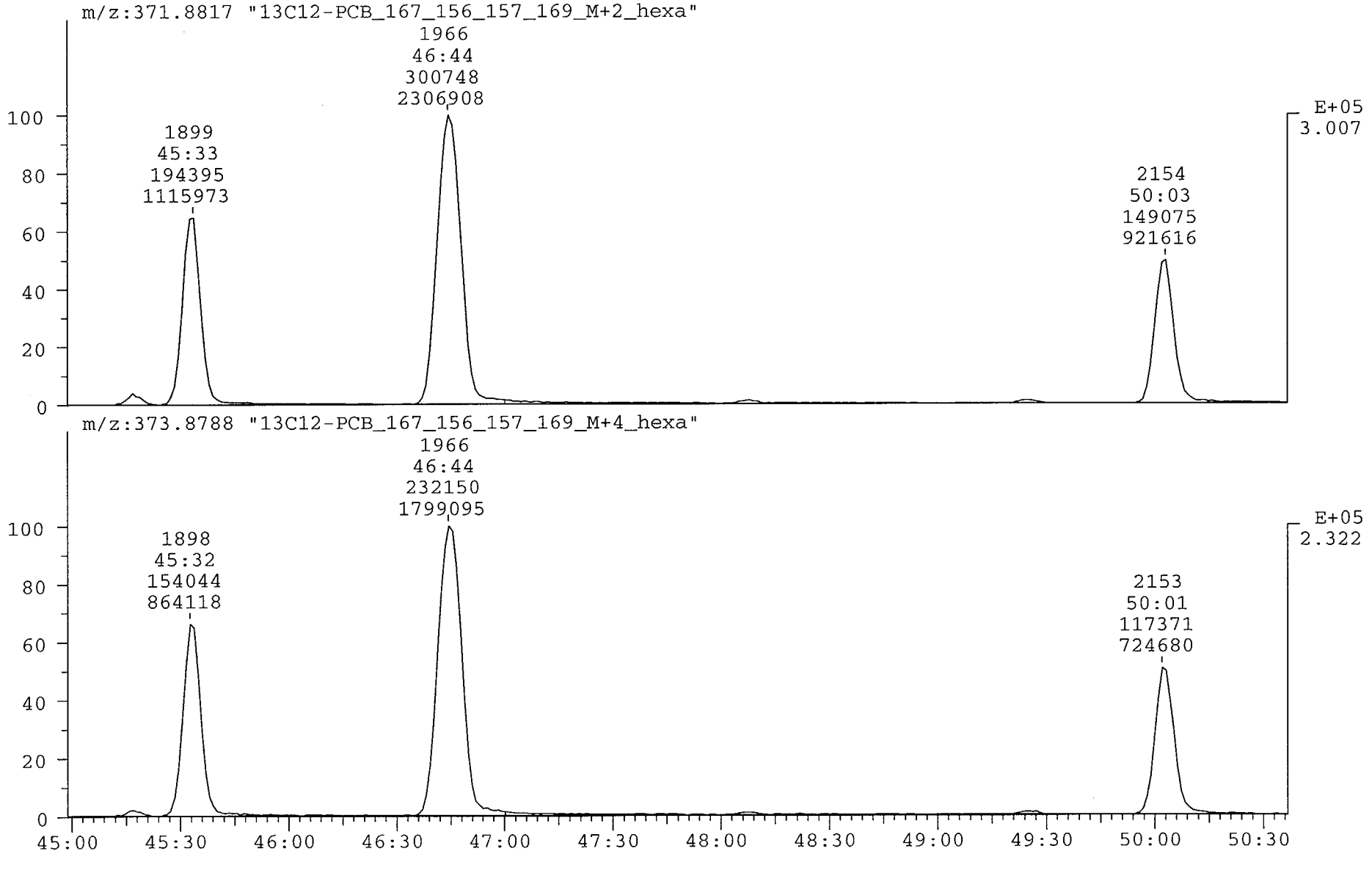
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  34:08      1254
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L             Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1229 > 1279        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3            Label :  -3, 3.0
Disp:  Height  Area
```



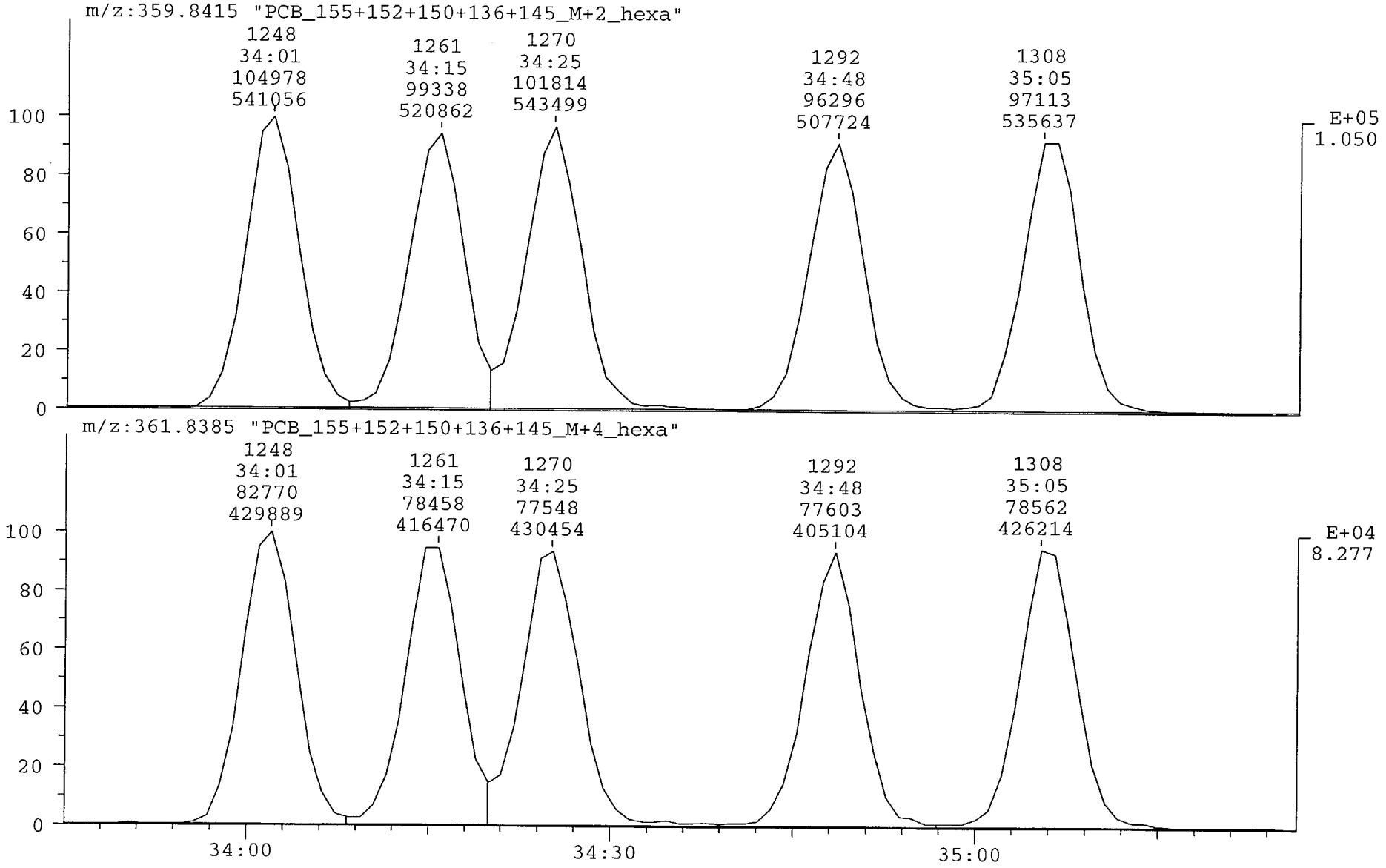
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  41:59      1696
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L             Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1634 > 1758        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



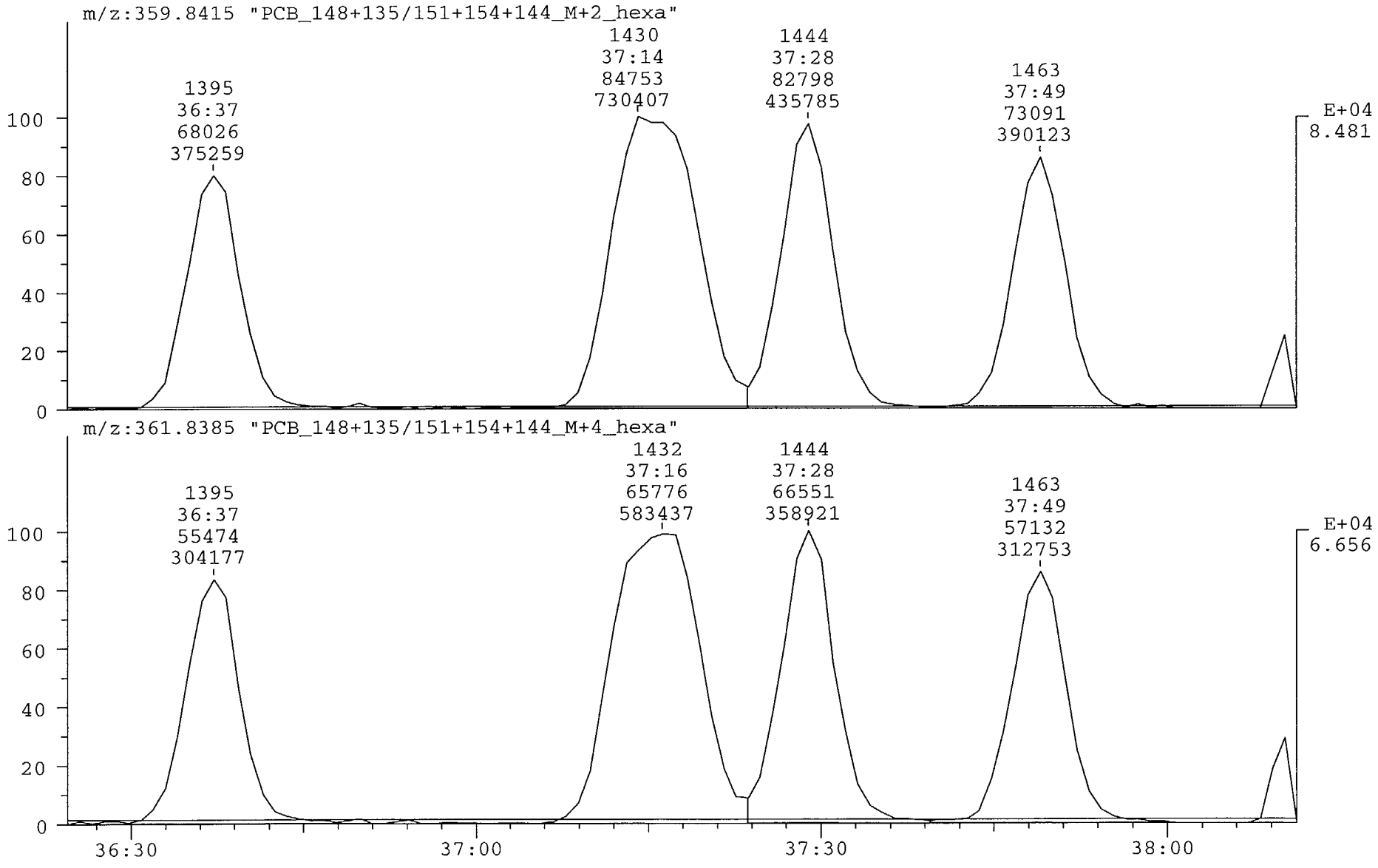
CHRO: aph2w5j1 18-Apr-06 Elapse: 47:53 2031
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1866 > 2186 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



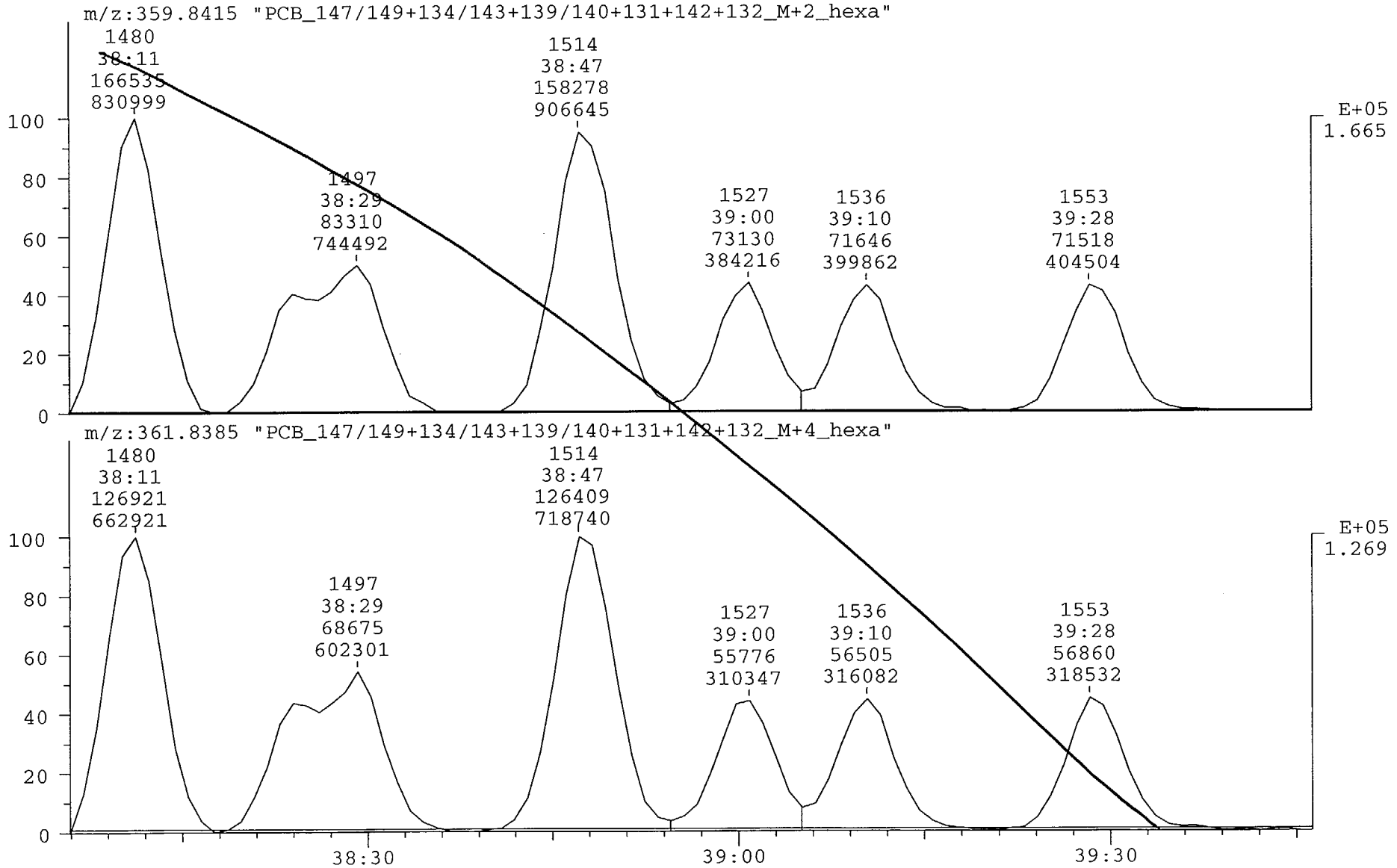
CHRO: aph2w5j1 18-Apr-06 Elapse: 34:44 1288
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1232 > 1328 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



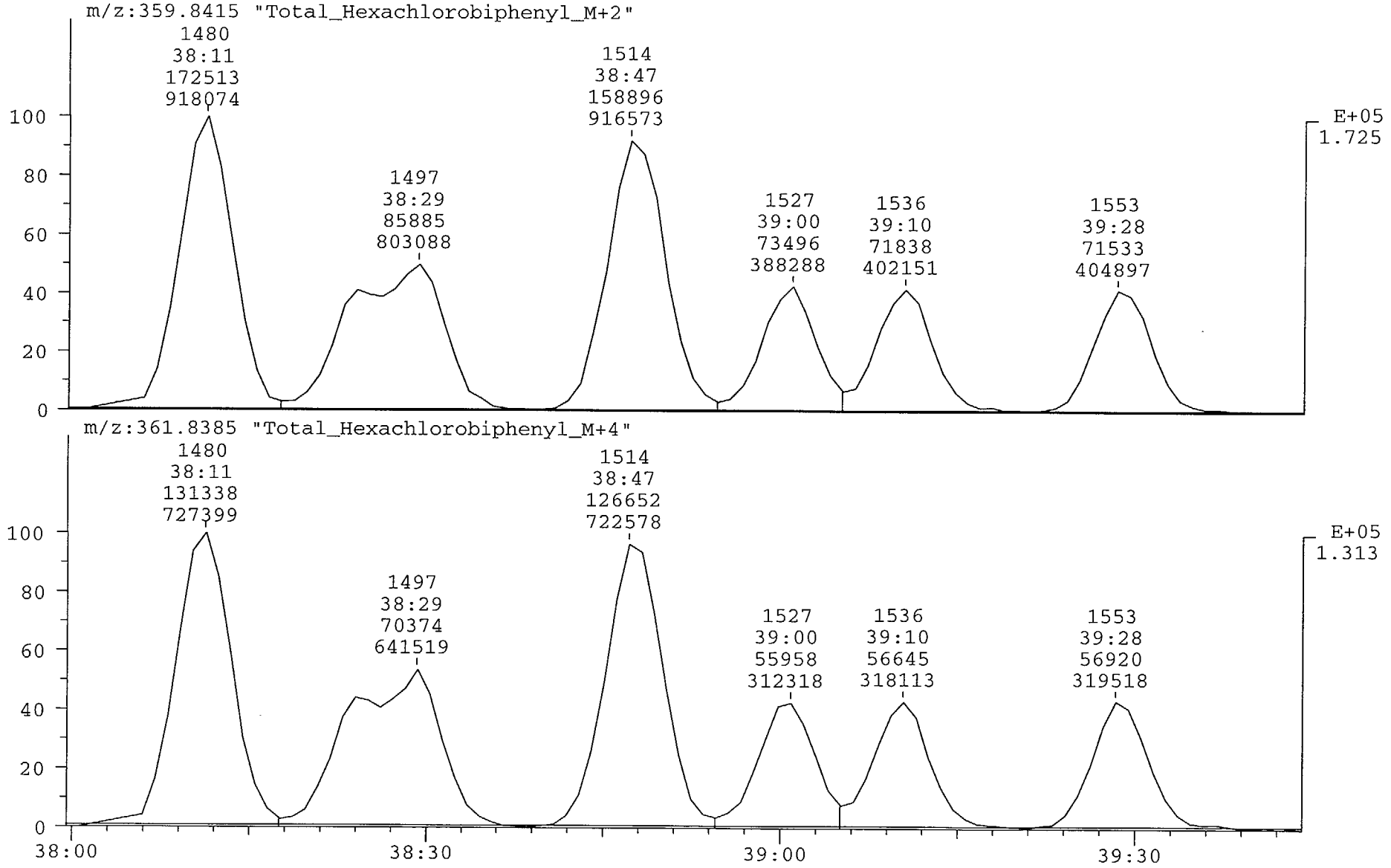
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:   37:20      1436
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :   13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L            Inlet :   GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1383 > 1480        Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :   -3, 3.0
Disp:  Height  Area
```



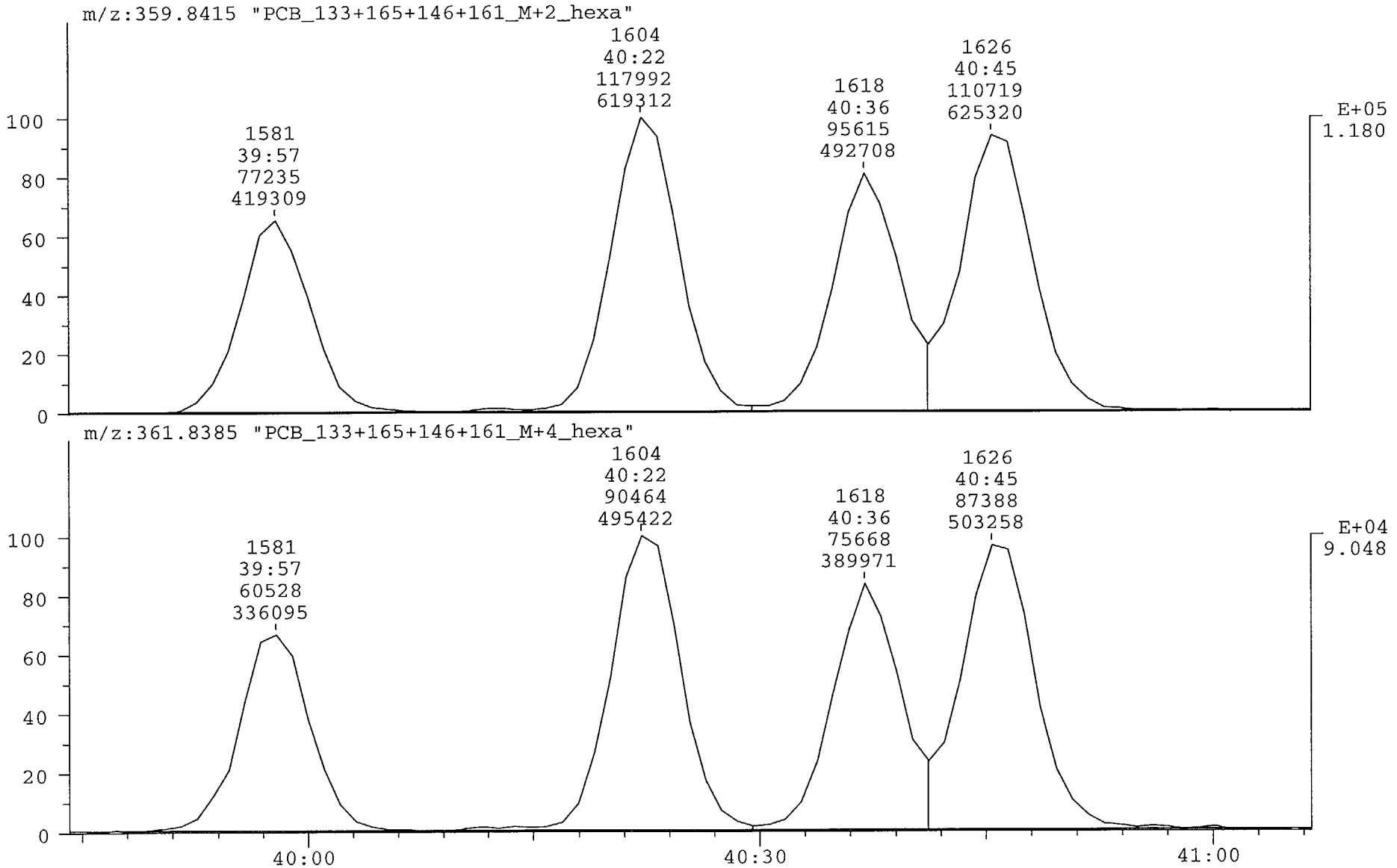
CHRO: aph2w5j1 18-Apr-06 Elapse: 38:53 1520
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1475 > 1570 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



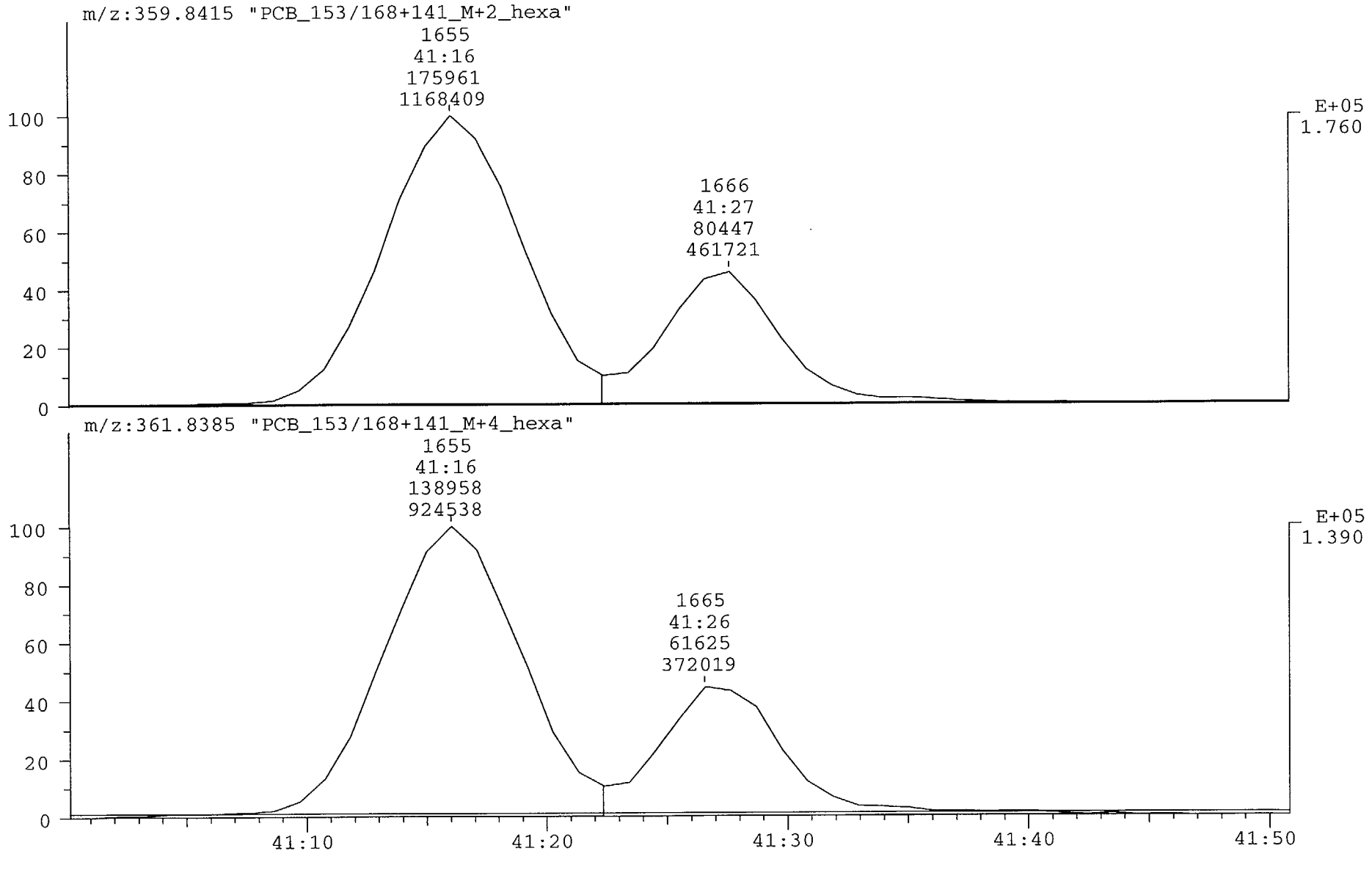
```
CHRO:  aph2w5j1                                  18-Apr-06   Elapse:  12:00.8        1
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                     Start :  13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L                 Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   1473 > 1568             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5                  Label :  -3, 3.0
Disp:  Height  Area
```



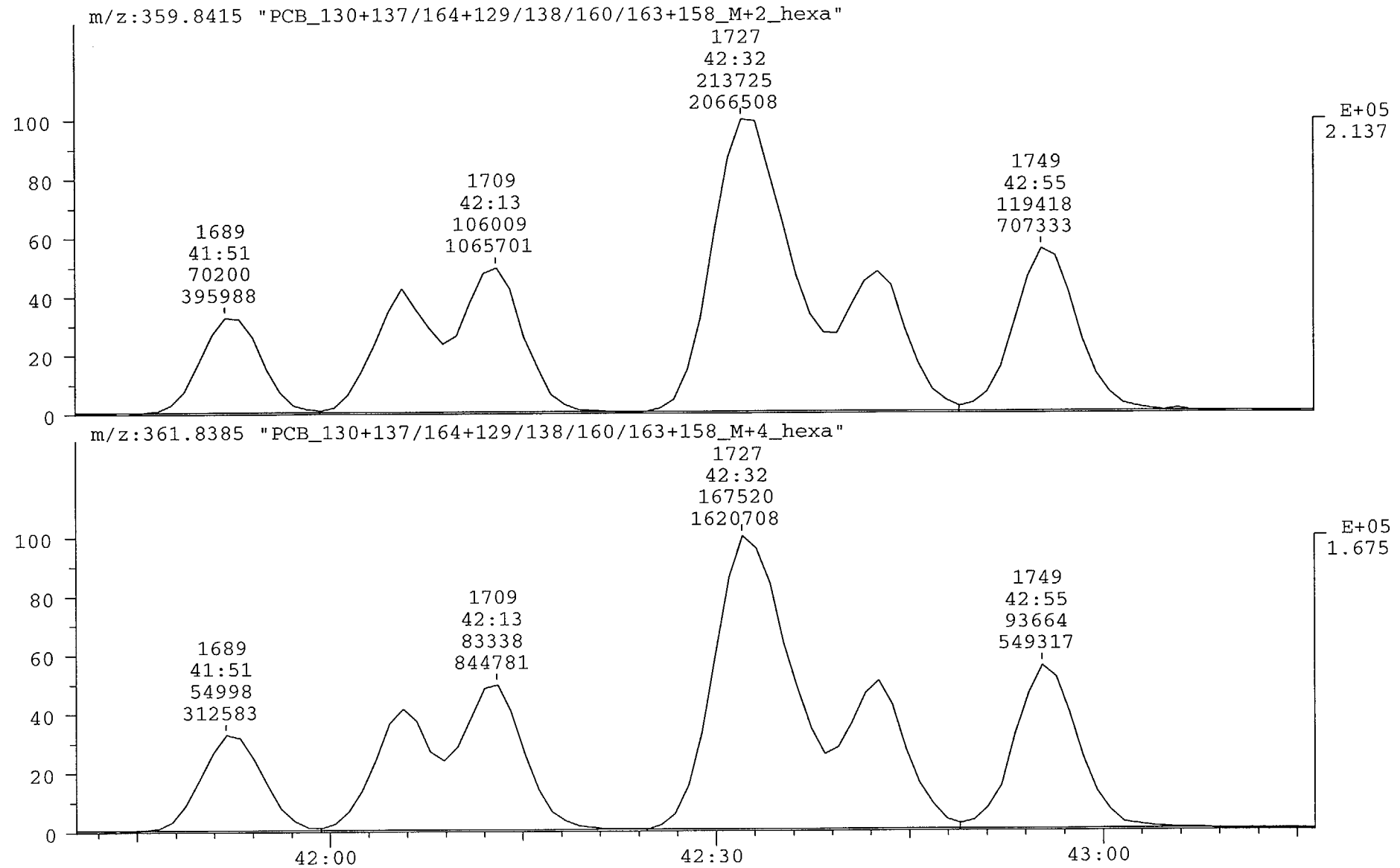
CHRO: aph2w5j1 18-Apr-06 Elapse: 40:28 1610
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1568 > 1646 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



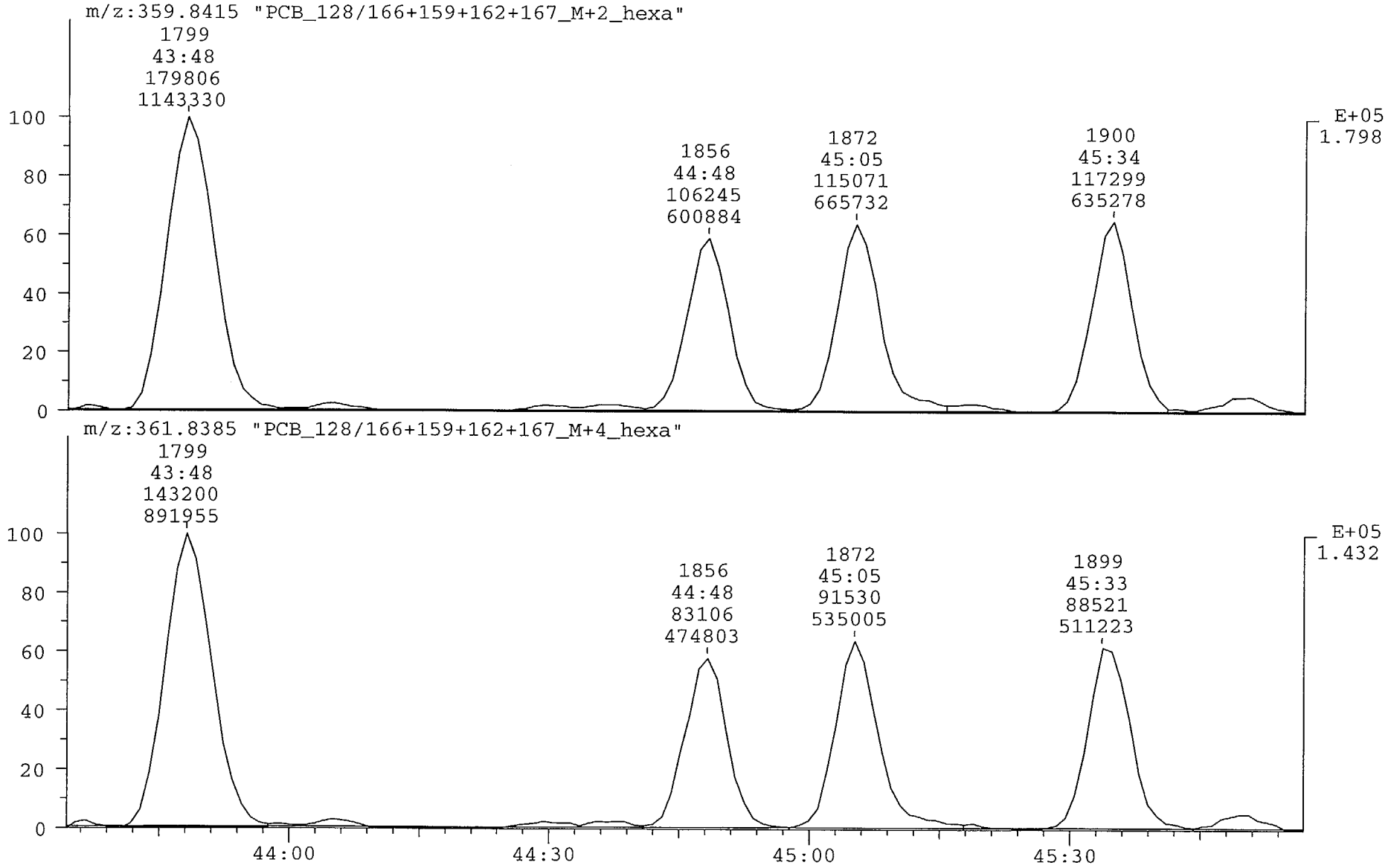
CHRO: aph2w5j1 18-Apr-06 Elapse: 41:29 1668
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1640 > 1688 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



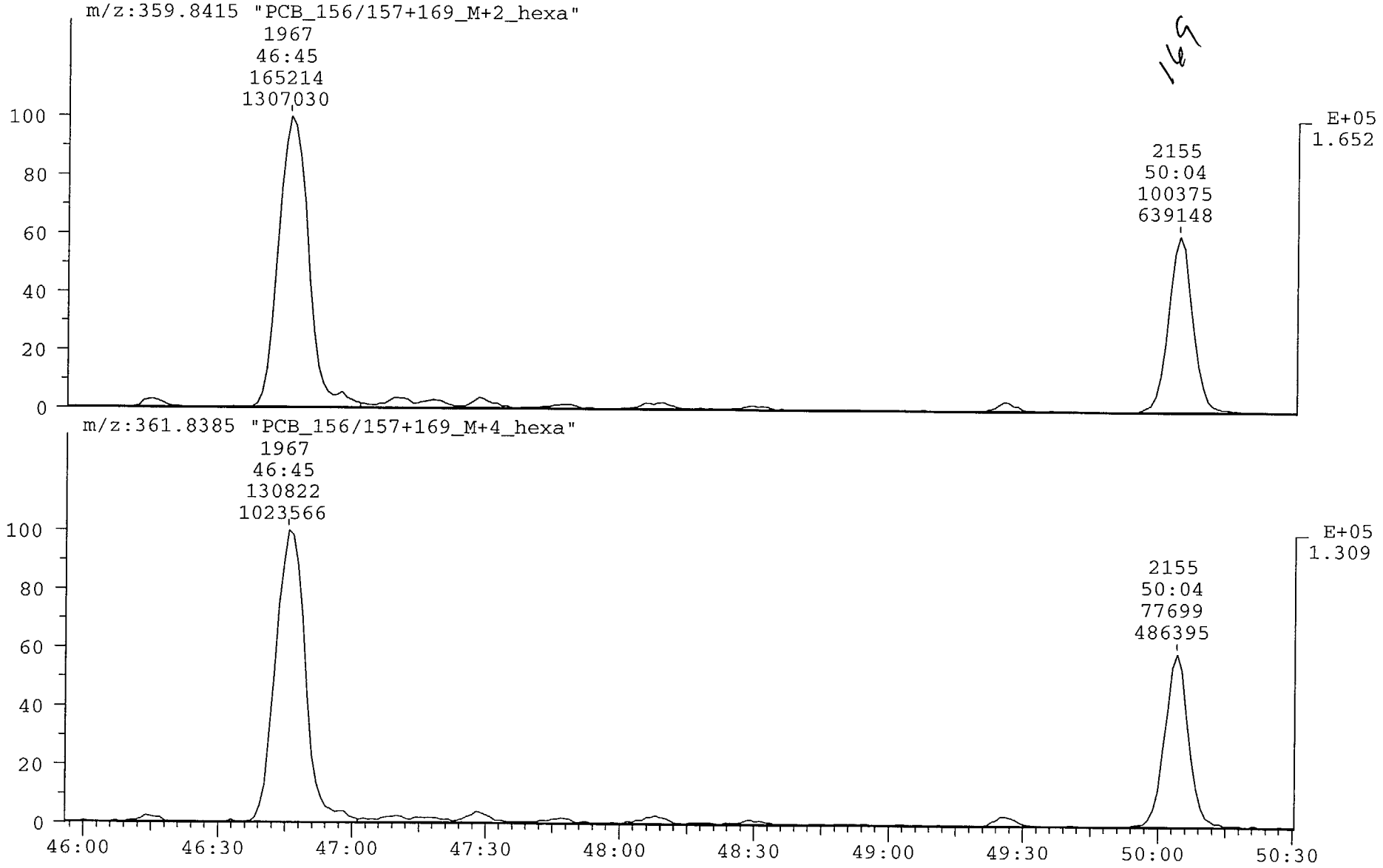
```
CHRO:  aph2w5j1                                  18-Apr-06   Elapse:  42:31      1726
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                     Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L                  Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1678 > 1769             Masses:  181 > 510
Area:  5, 0.50, 0      Baseline  :   100, 7                  Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: aph2w5j1 18-Apr-06 Elapse: 44:48 1856
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1786 > 1921 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

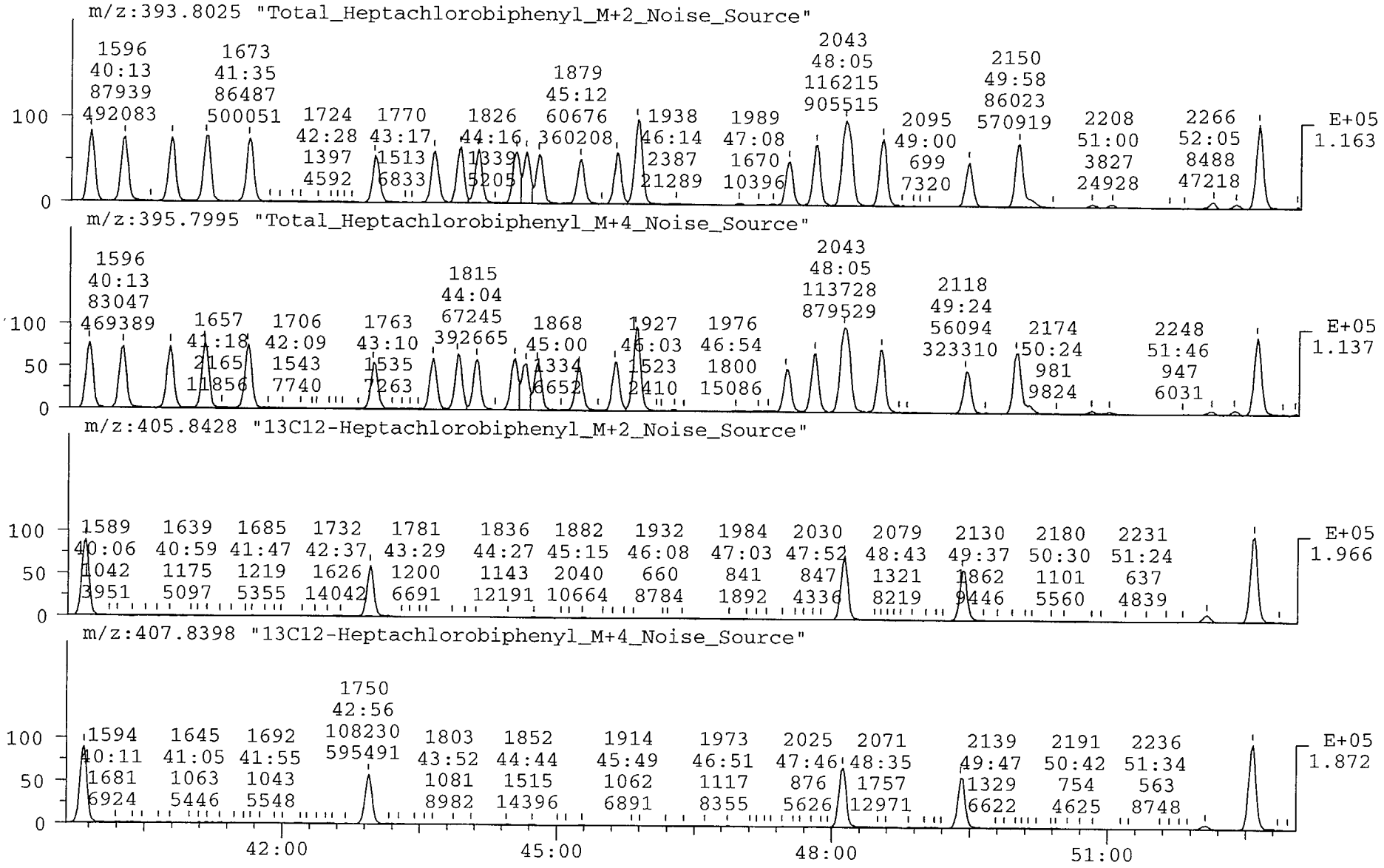


CHRO: aph2w5j1 18-Apr-06 Elapse: 48:29 2065
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1920 > 2180 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

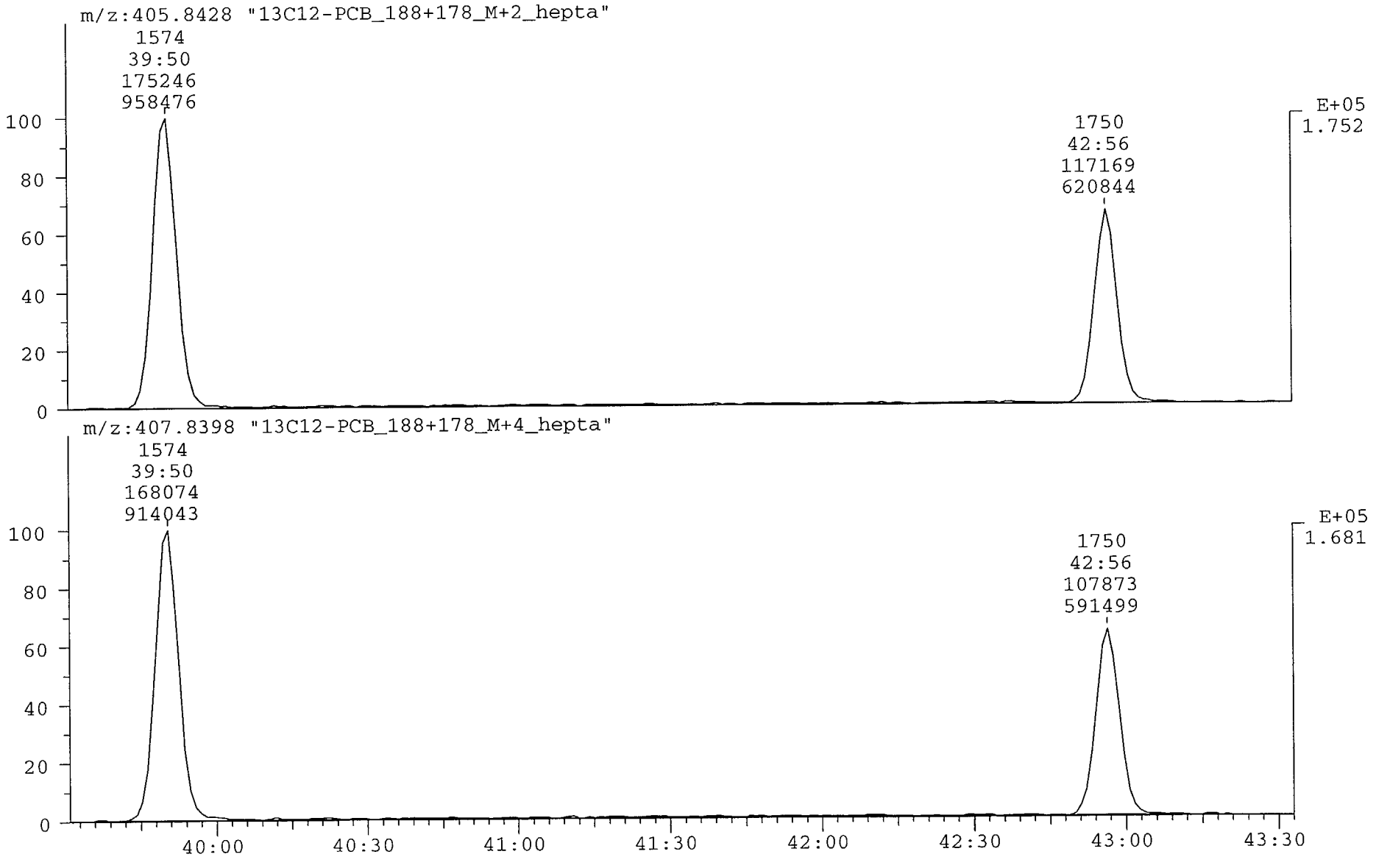


145

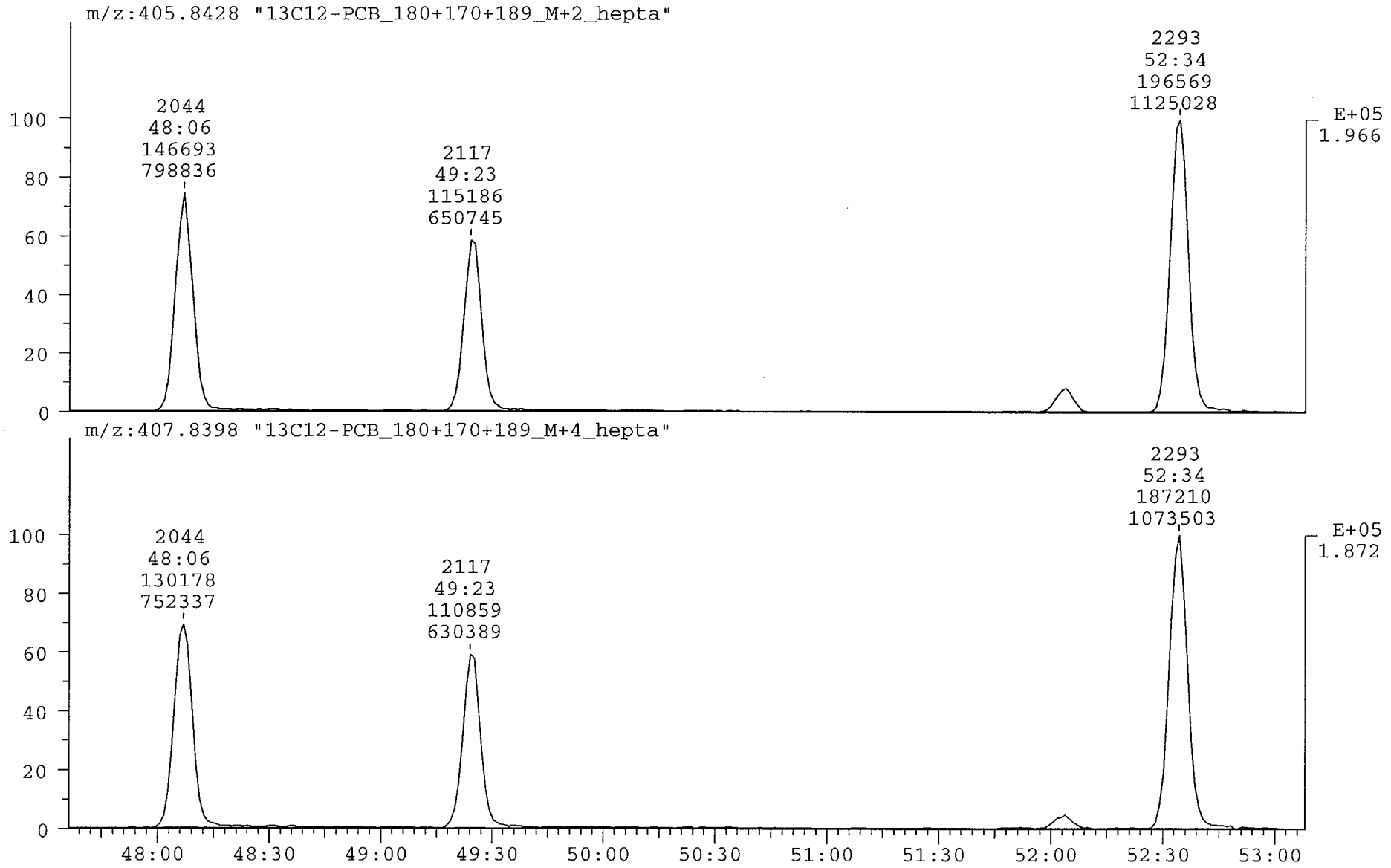
CHRO: aph2w5j1 18-Apr-06 Elapse: 46:21 1944
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1563 > 2320 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



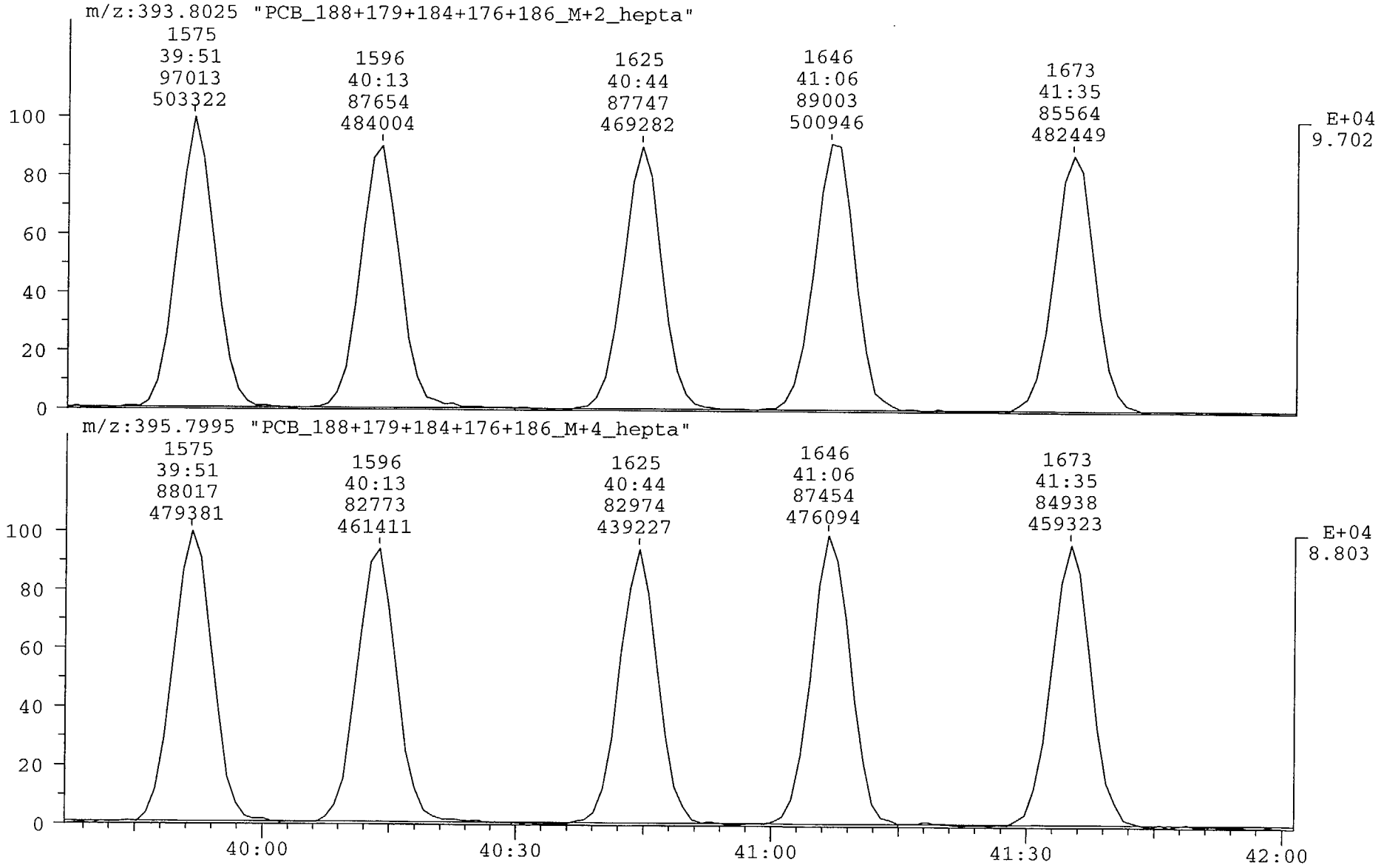
CHRO: aph2w5j1 18-Apr-06 Elapse: 41:31 1670
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1556 > 1785 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



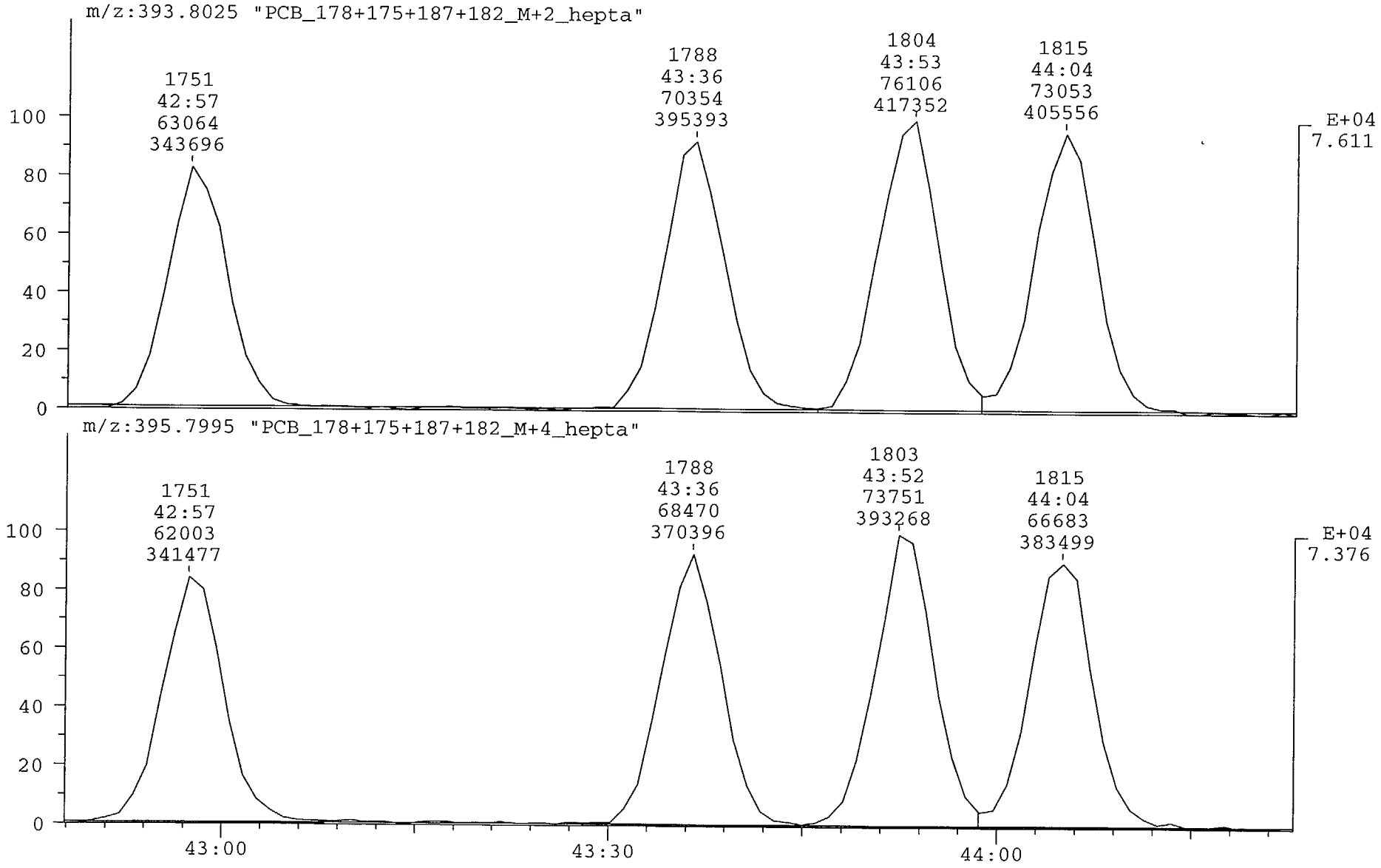
CHRO: aph2w5j1 18-Apr-06 Elapse: 50:25 2175
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2015 > 2325 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



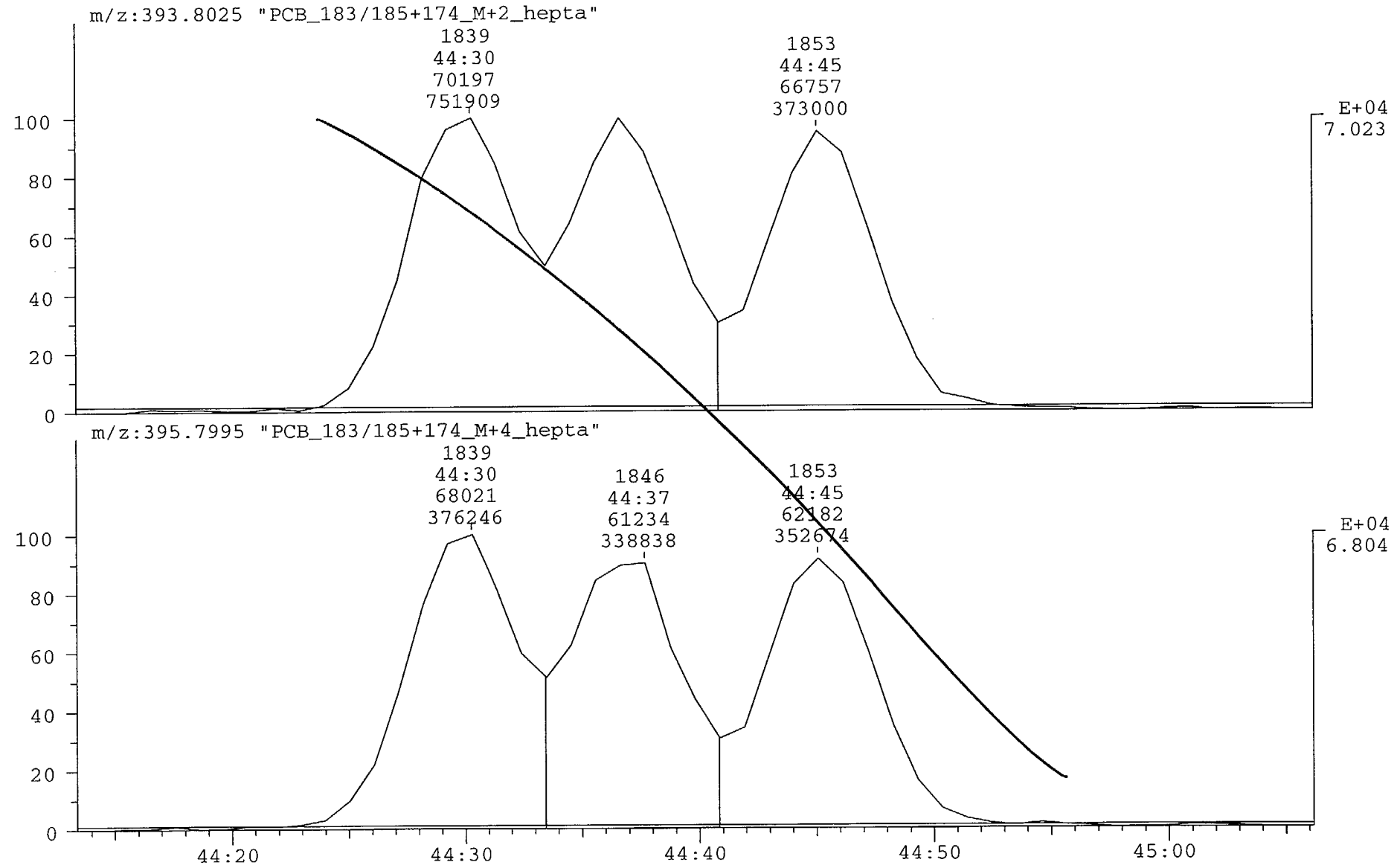
CHRO: aph2w5j1 18-Apr-06 Elapse: 40:52 1633
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1561 > 1698 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



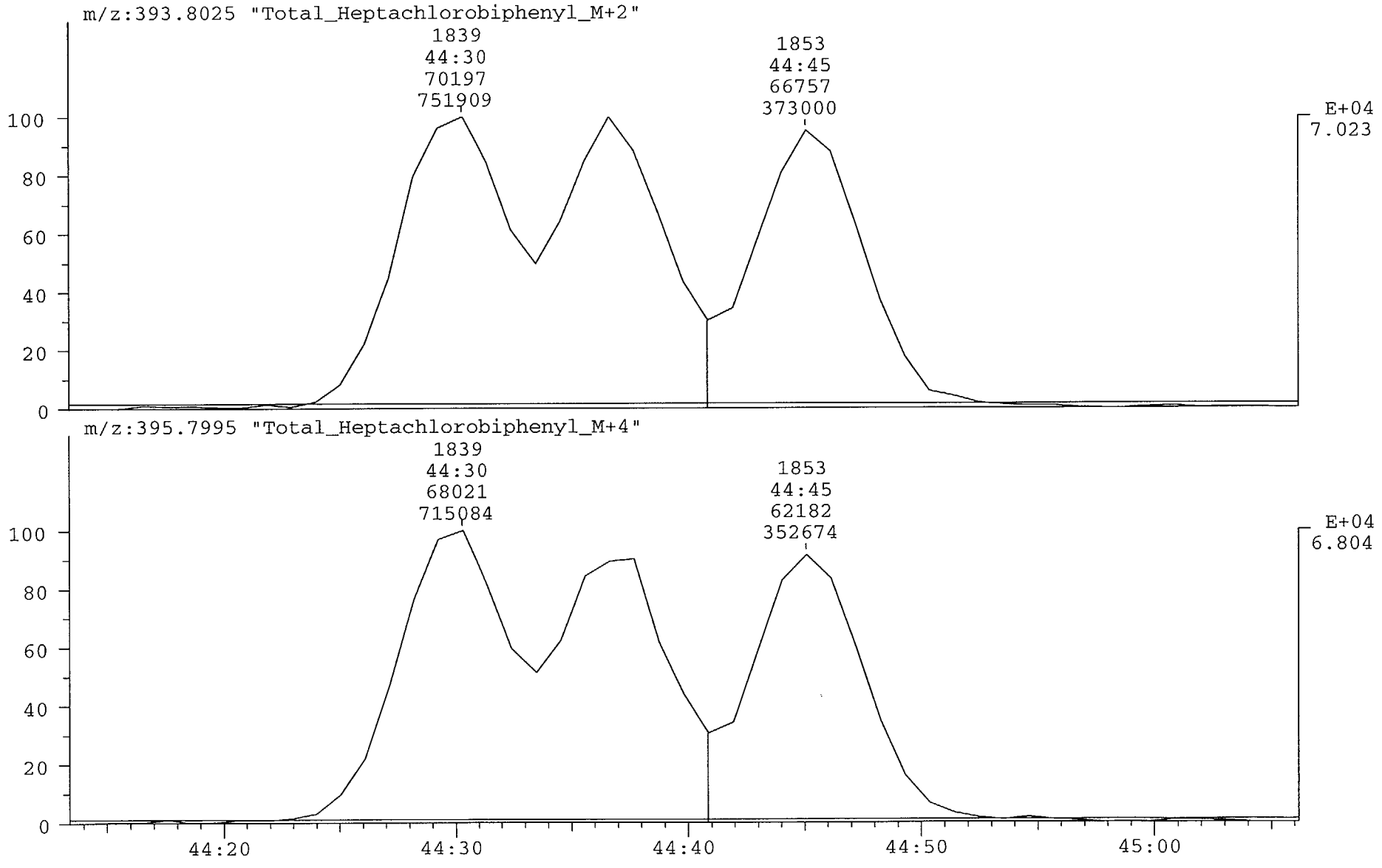
CHRO: aph2w5j1 18-Apr-06 Elapse: 43:40 1792
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1742 > 1832 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



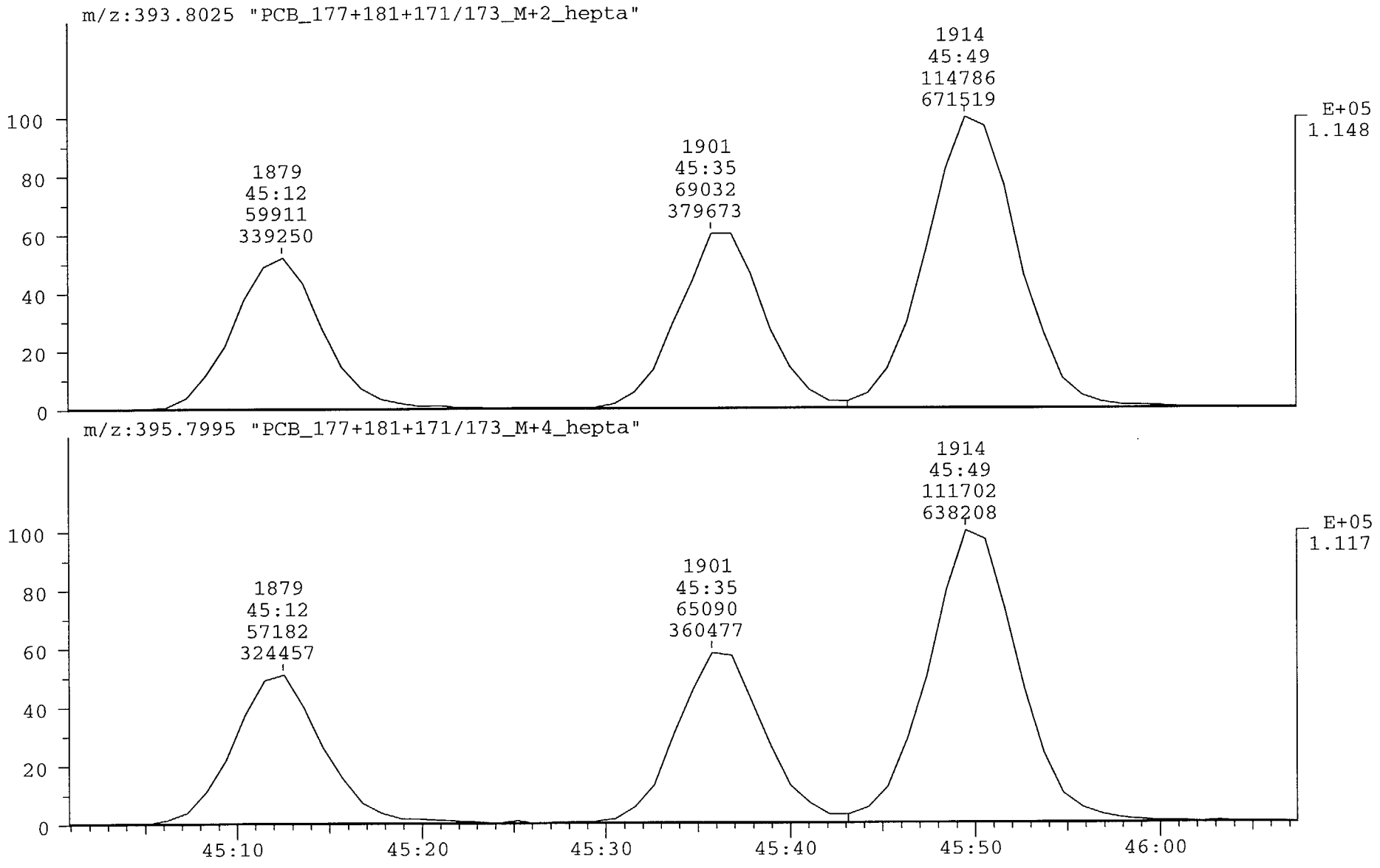
CHRO: aph2w5j1 18-Apr-06 Elapse: 44:50 1858
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1823 > 1873 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 6 Label : -3, 3.0
Disp: Height Area



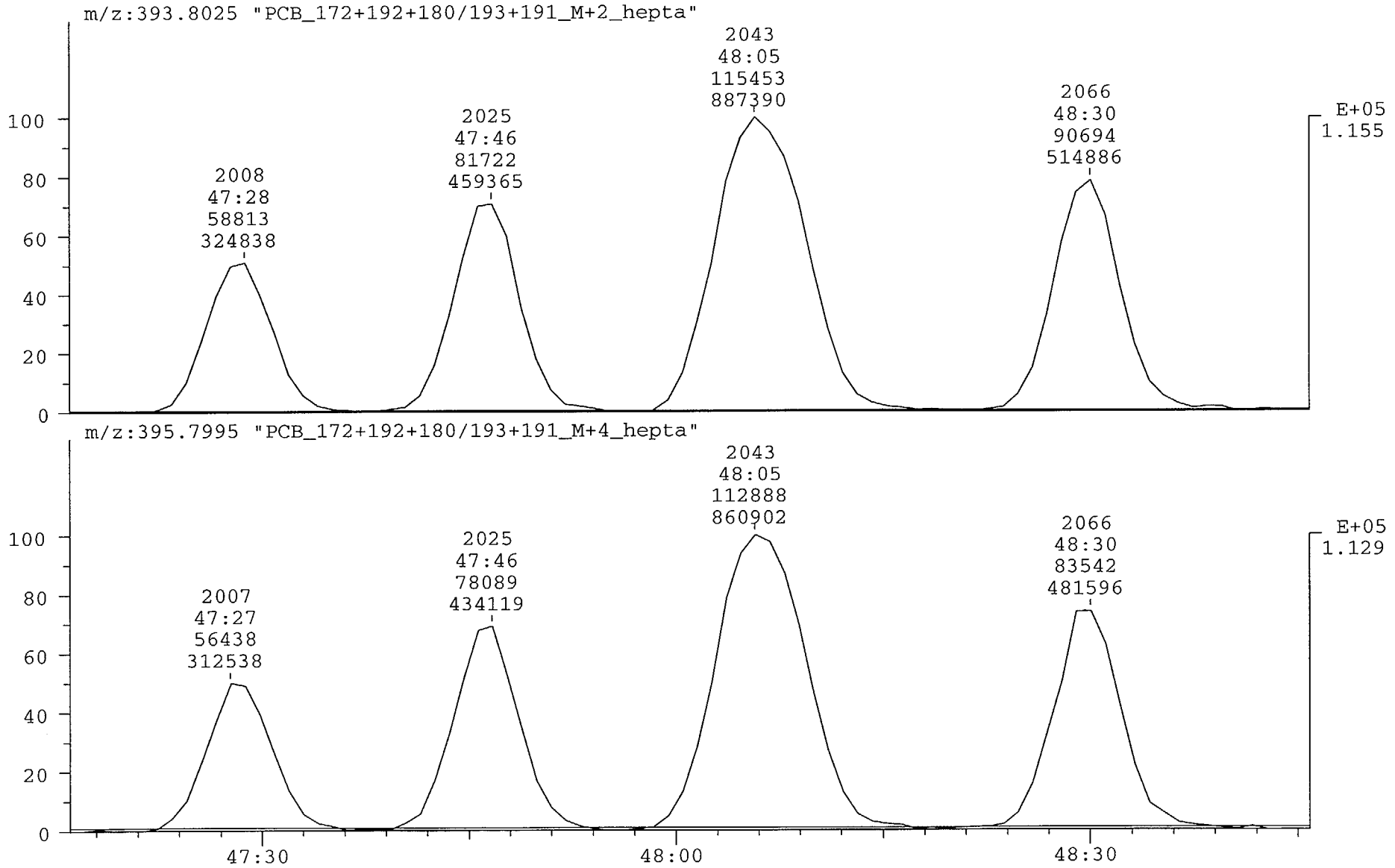
CHRO: aph2w5j1 18-Apr-06 Elapse: 12:00.8 1
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1823 > 1873 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



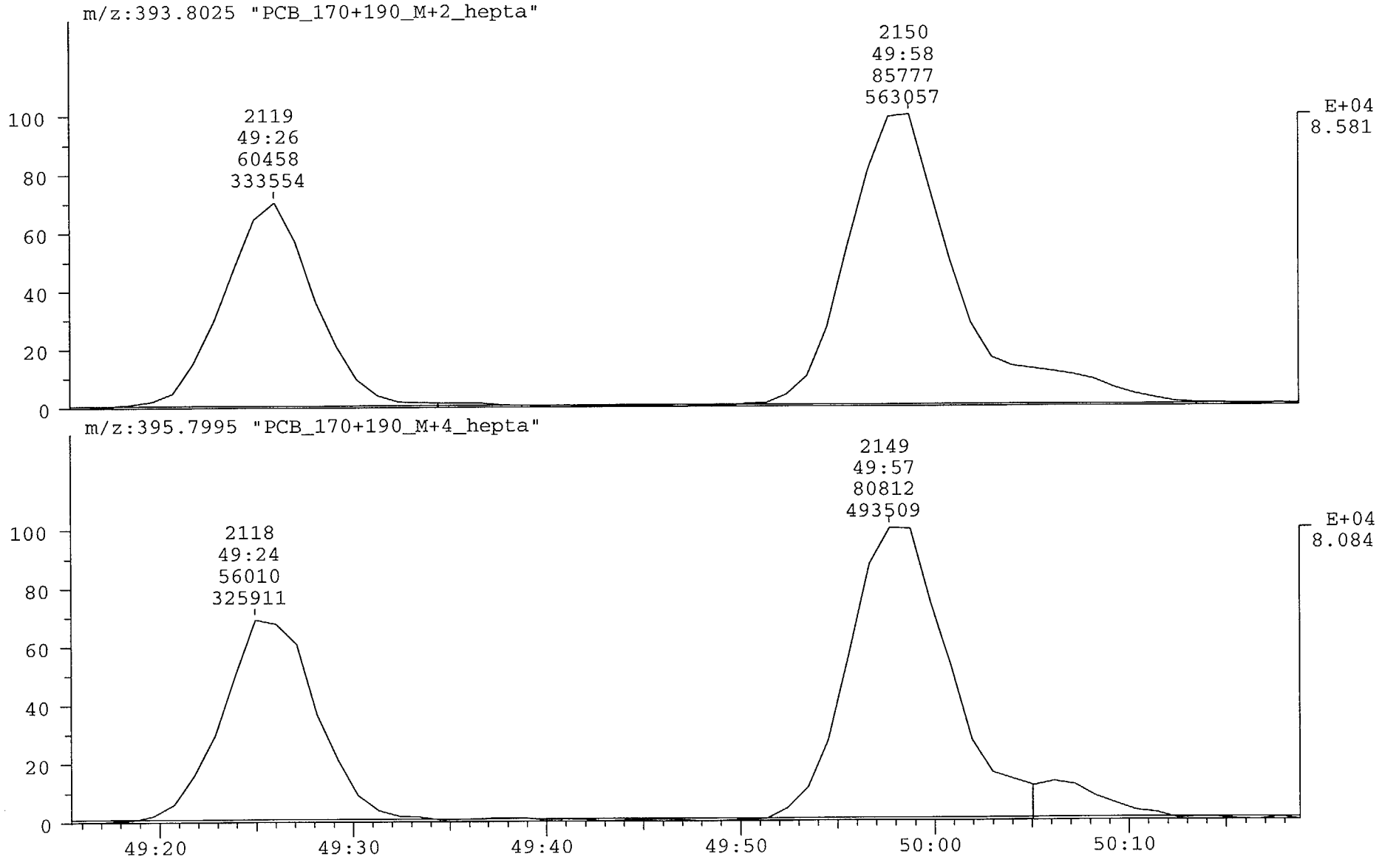
CHRO: aph2w5j1 18-Apr-06 Elapse: 45:41 1906
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1868 > 1931 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



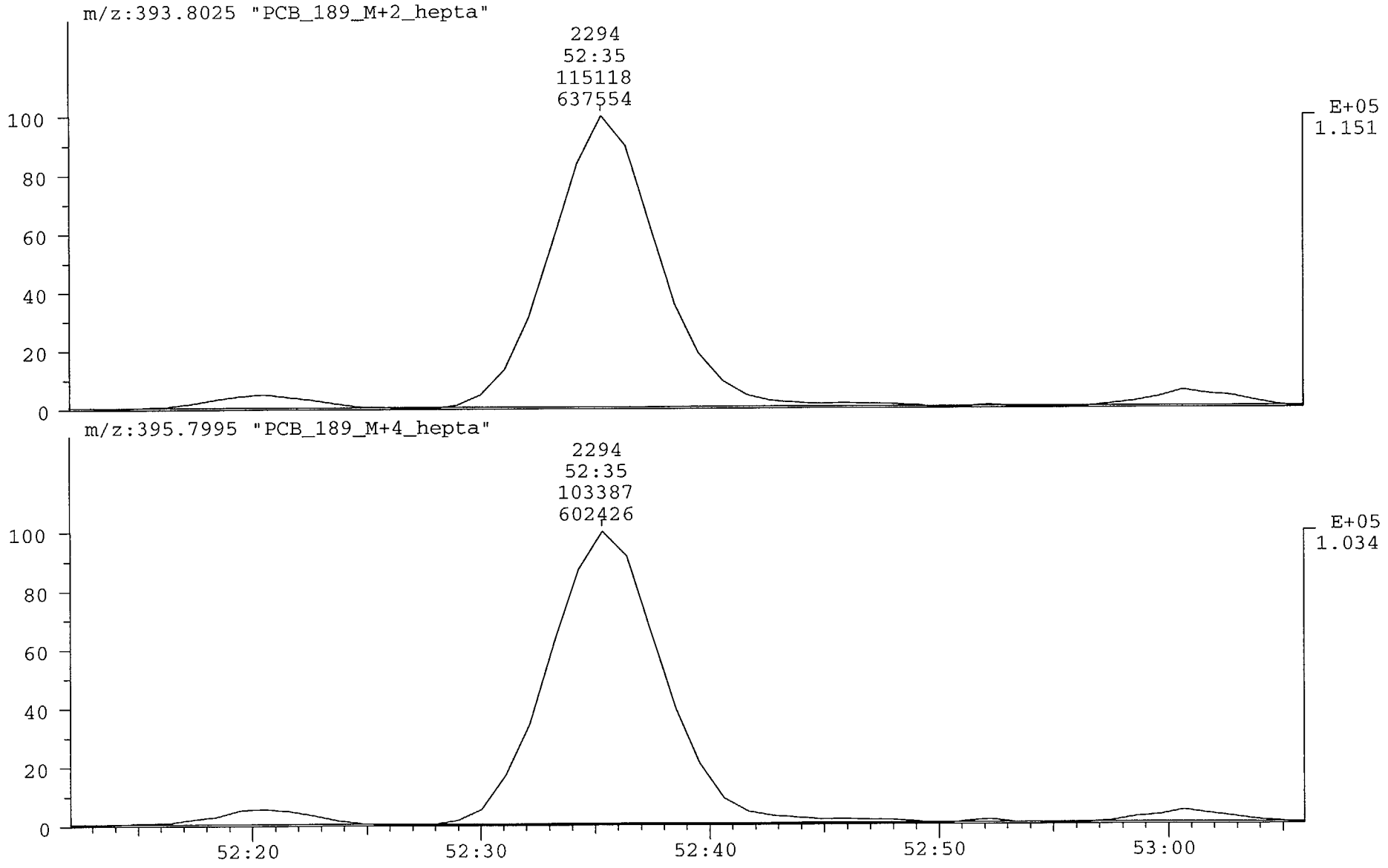
CHRO: aph2w5j1 18-Apr-06 Elapse: 48:08 2046
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1996 > 2081 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



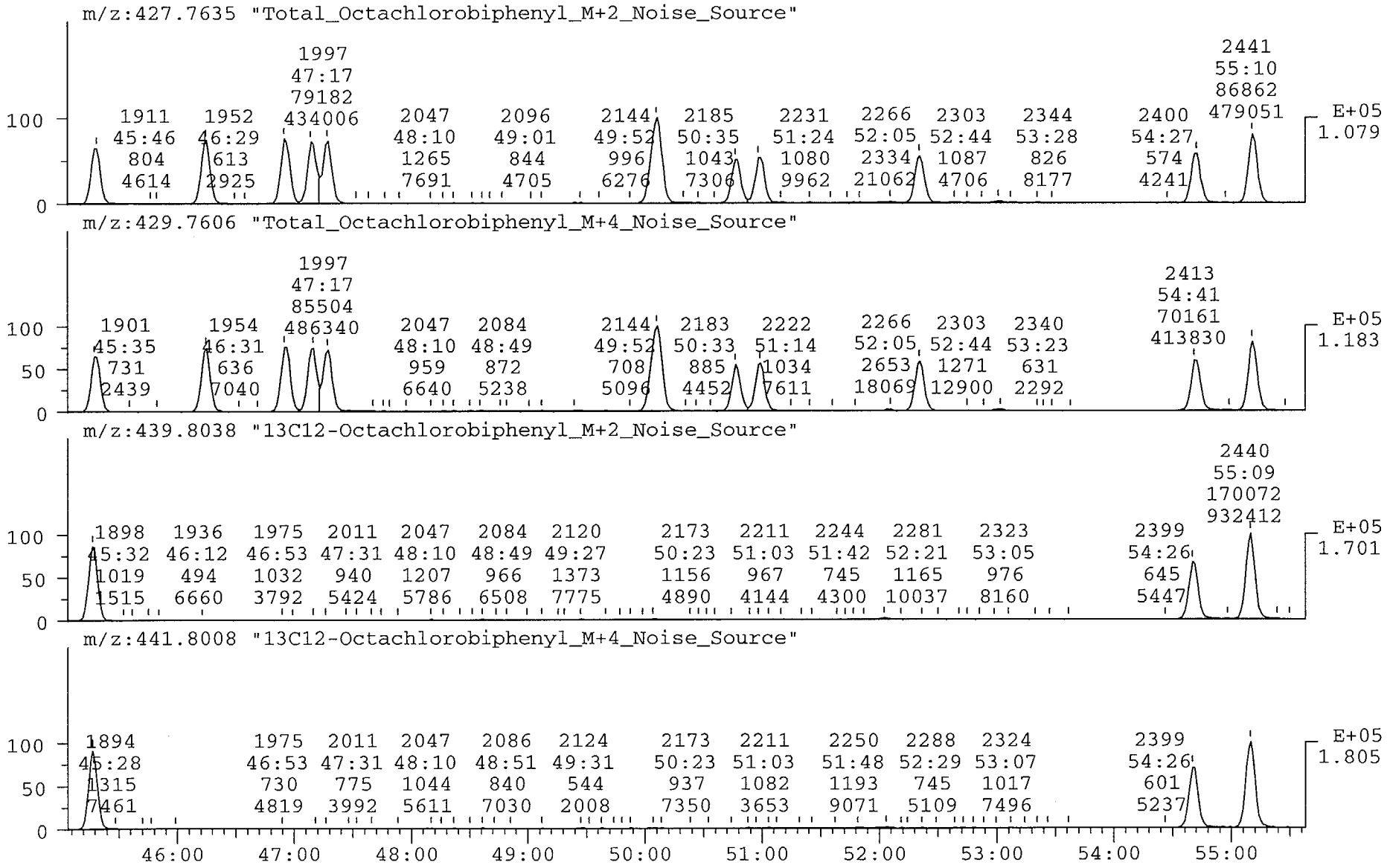
CHRO: aph2w5j1 18-Apr-06 Elapse: 49:47 2139
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2109 > 2169 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



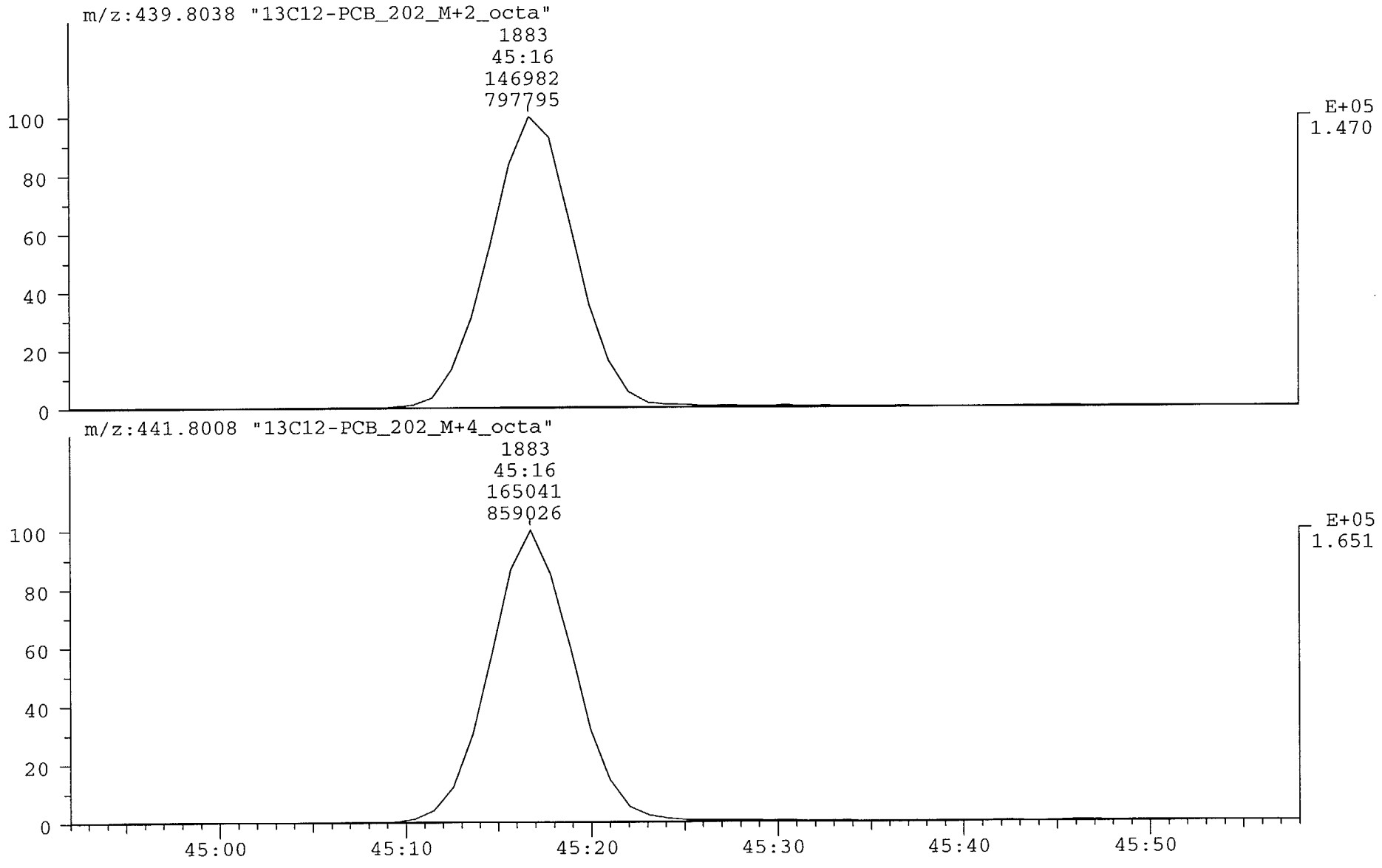
CHRO: aph2w5j1 18-Apr-06 Elapse: 52:37 2296
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2272 > 2323 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



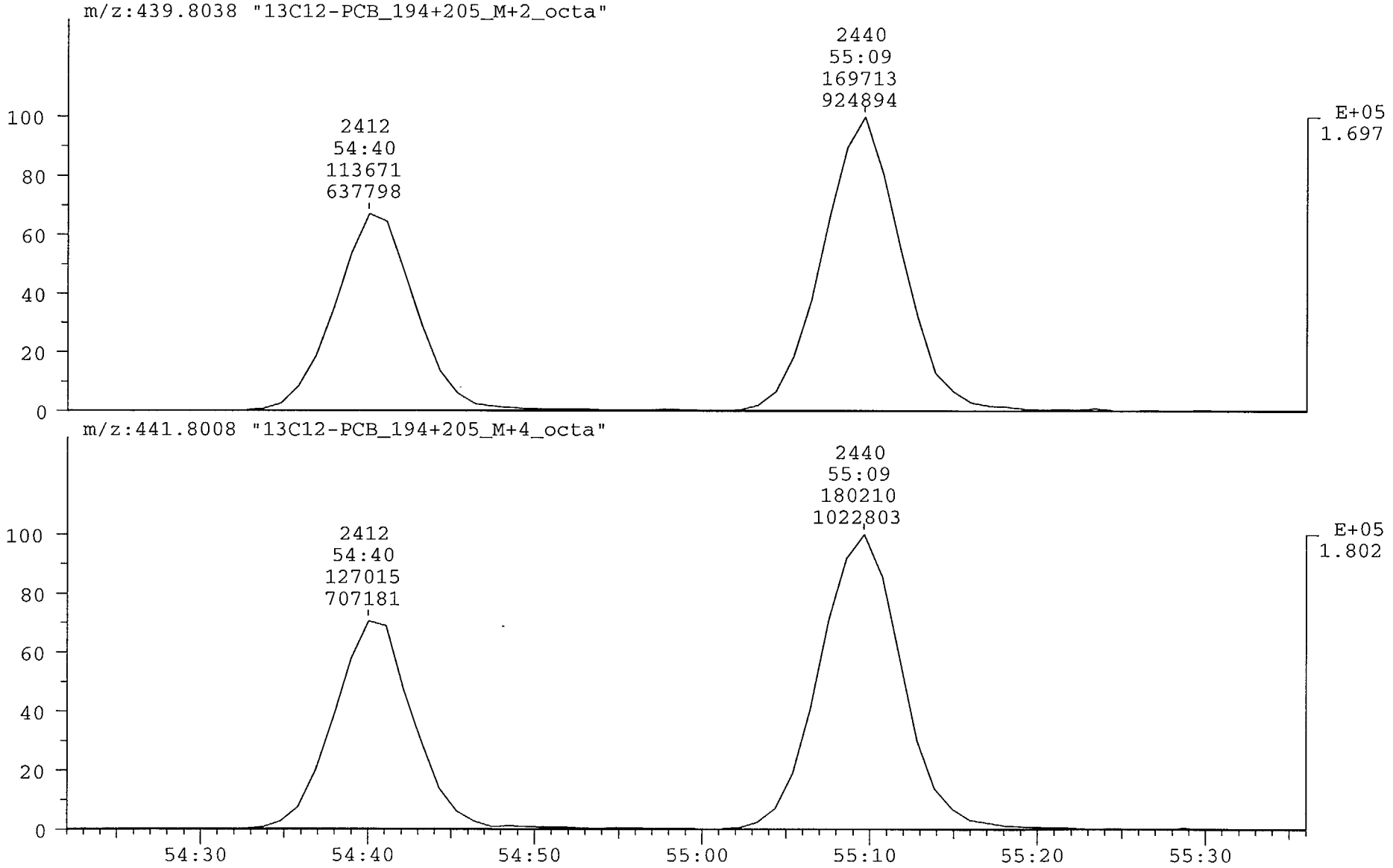
CHRO: aph2w5j1 18-Apr-06 Elapse: 50:20 2171
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1871 > 2467 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



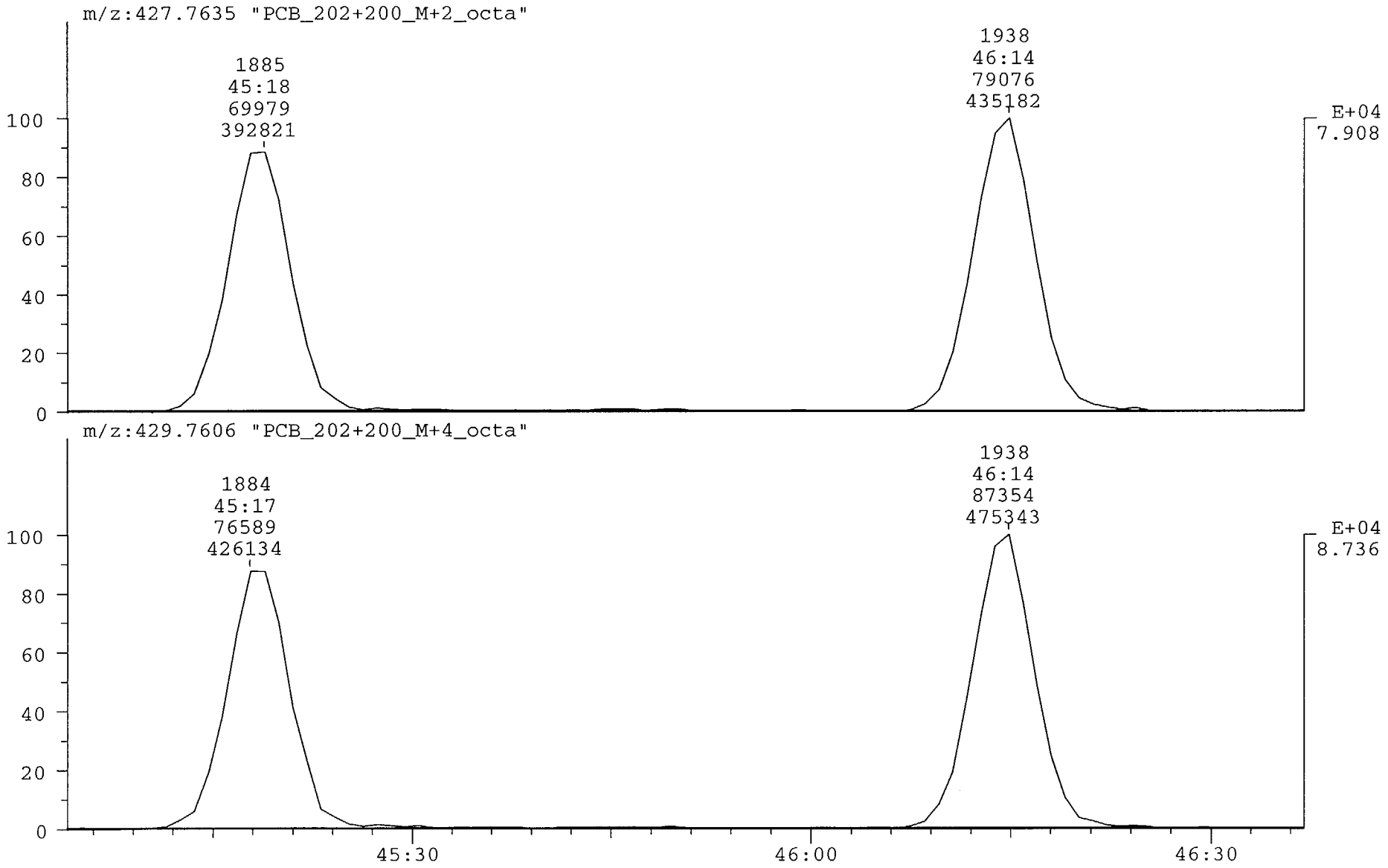
CHRO: aph2w5j1 18-Apr-06 Elapse: 45:22 1888
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1860 > 1922 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



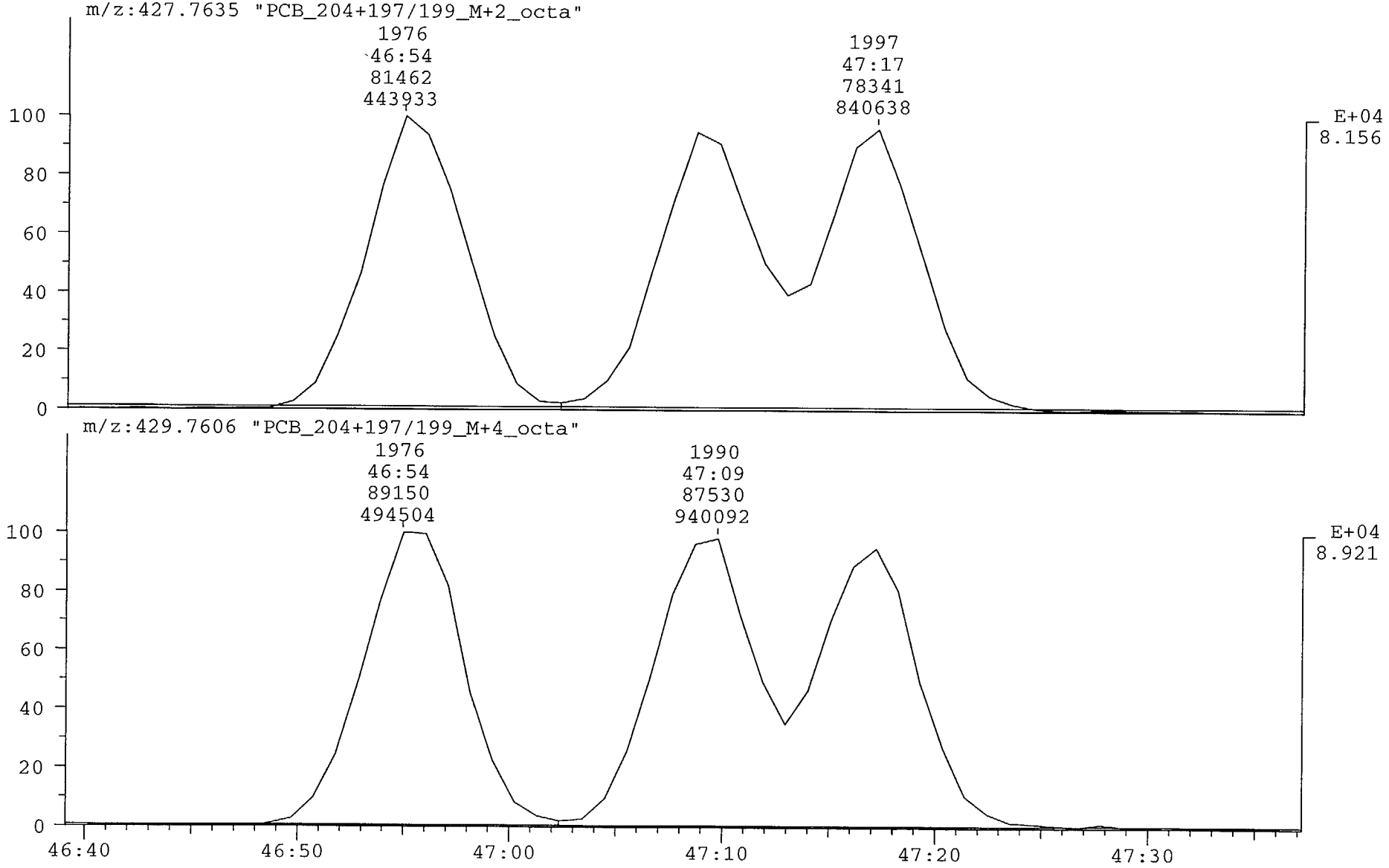
CHRO: aph2w5j1 18-Apr-06 Elapse: 54:59 2430
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2395 > 2465 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



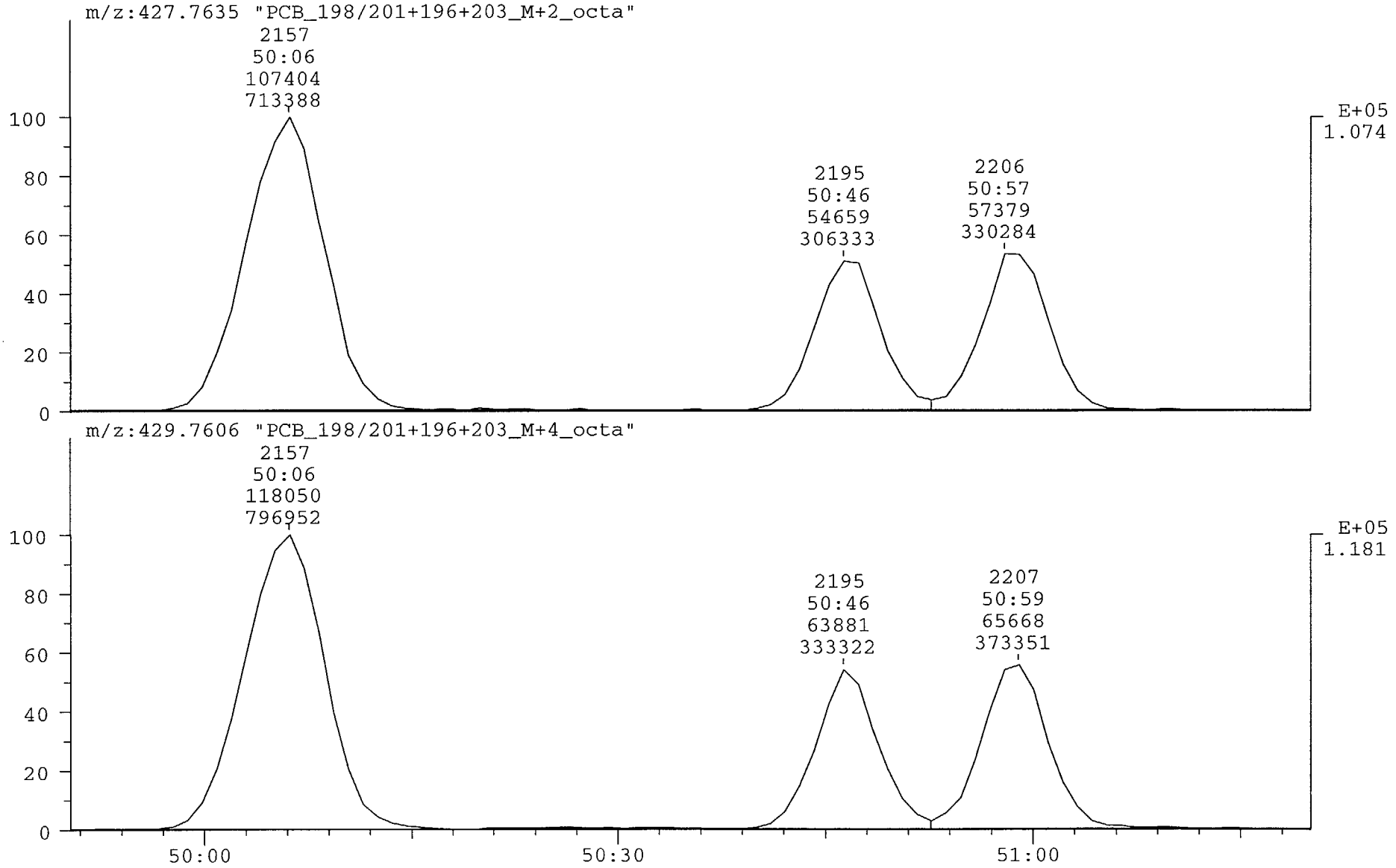
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  45:54      1919
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L              Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1871 > 1959         Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



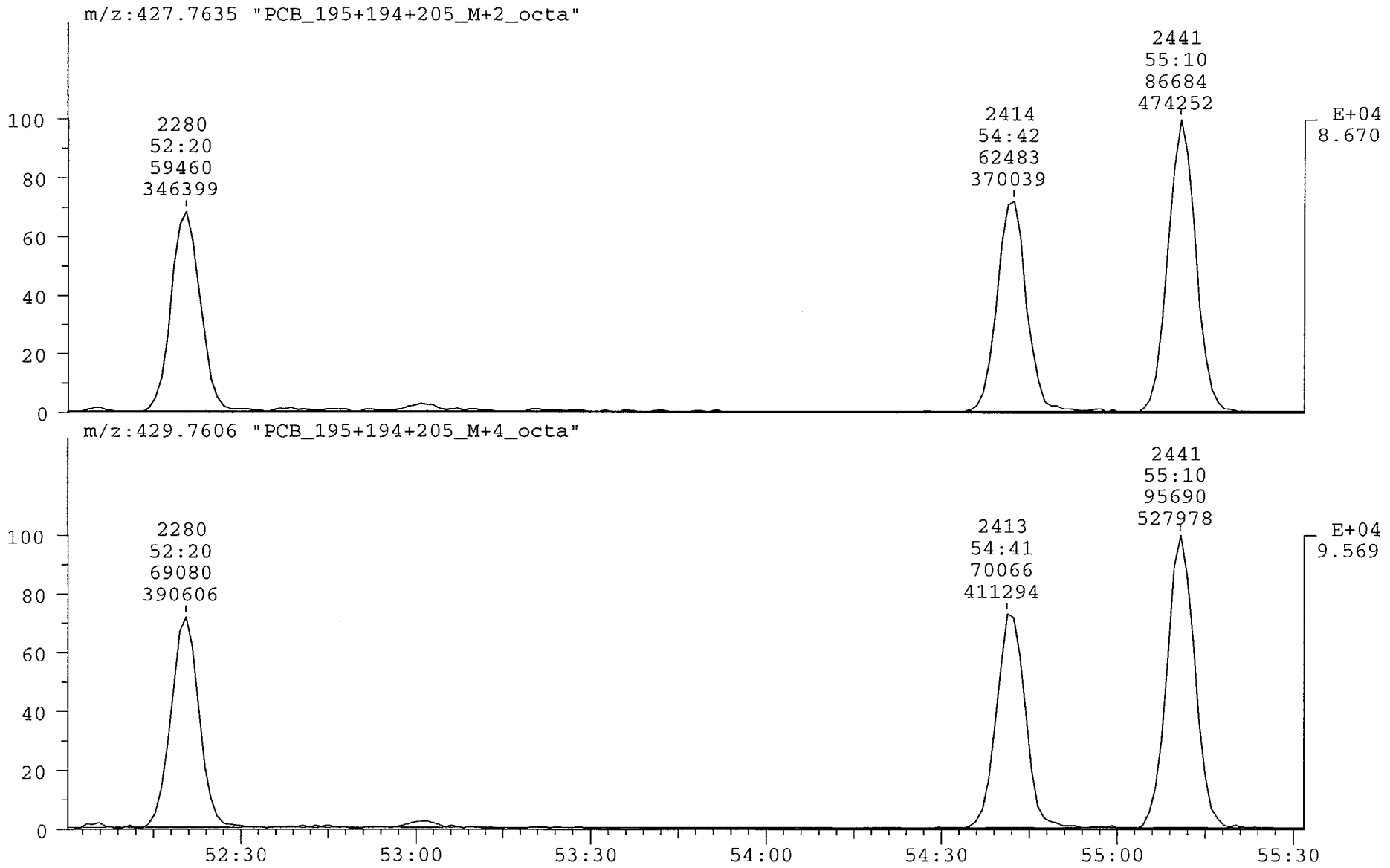
CHRO: aph2w5jl 18-Apr-06 Elapse: 47:00 1981
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1961 > 2016 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



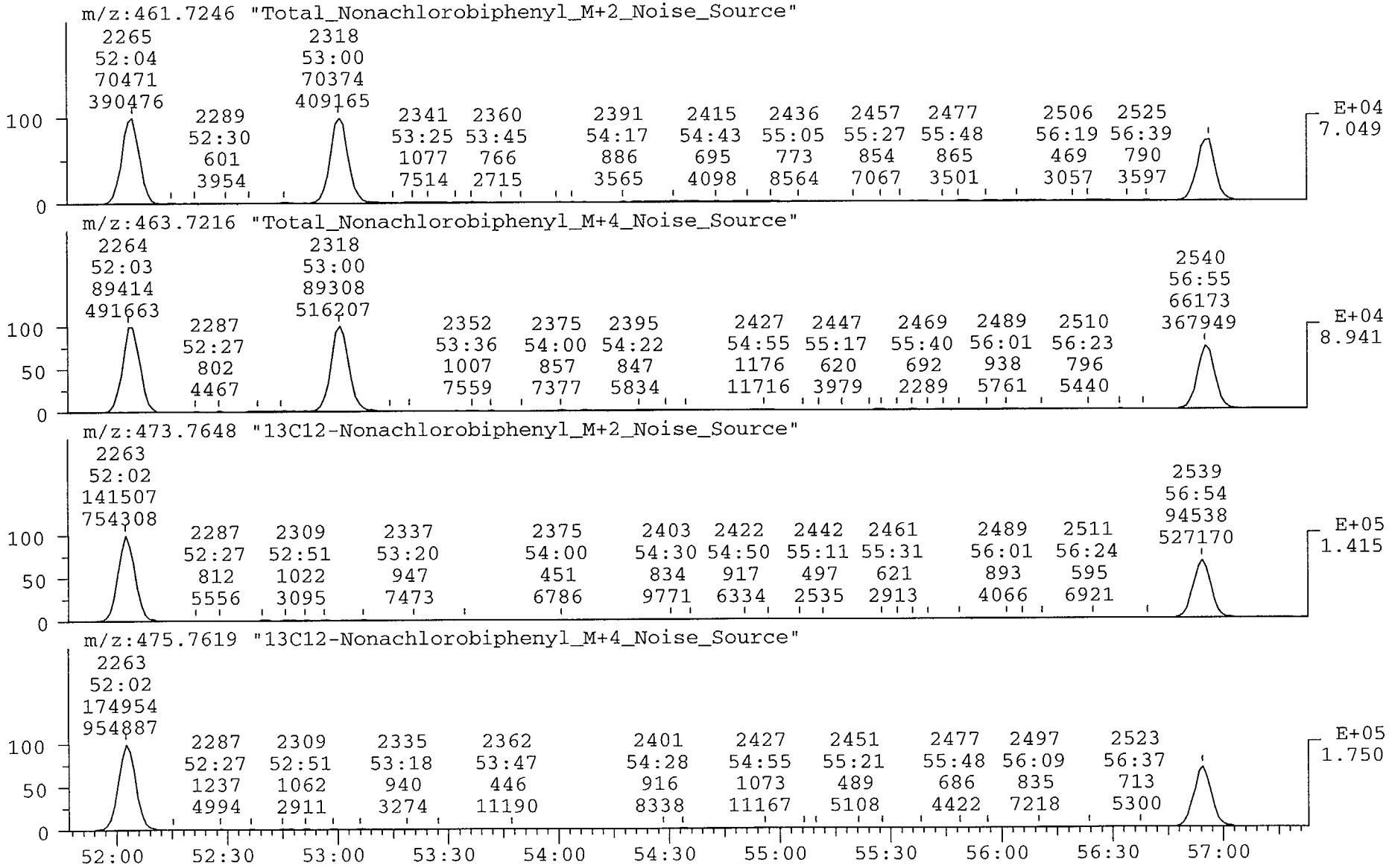
```
CHRO:  aph2w5j1                                18-Apr-06   Elapse:   50:50      2199
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                   Start :   13:15:52    2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :   6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L              Inlet :   GC     Vial   5
Peak:  100.00  ppm     Label wndw:   2142 > 2227          Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   -3, 3.0
Disp:  Height  Area
```



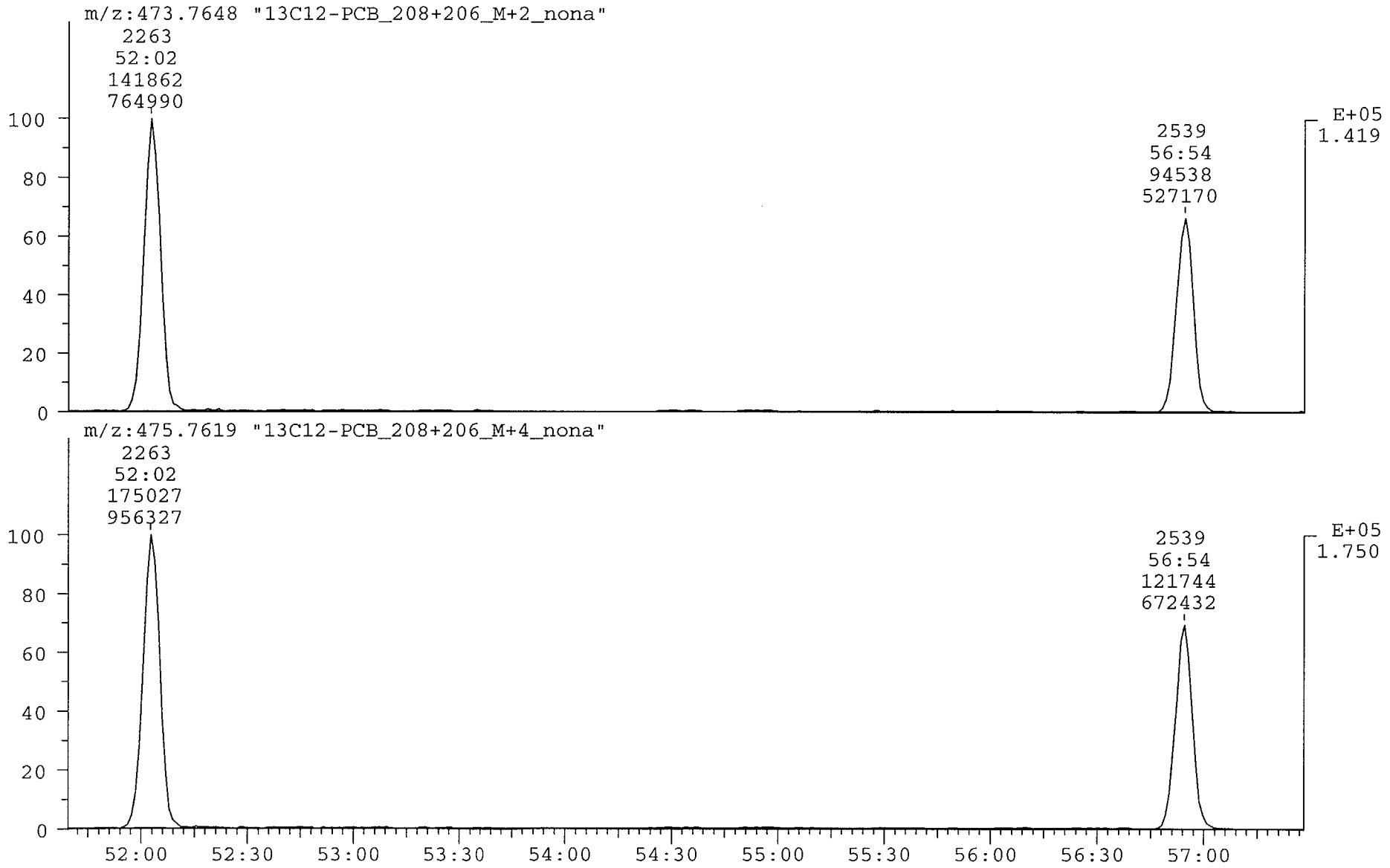
CHRO: aph2w5j1 18-Apr-06 Elapse: 54:44 2416
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2261 > 2461 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



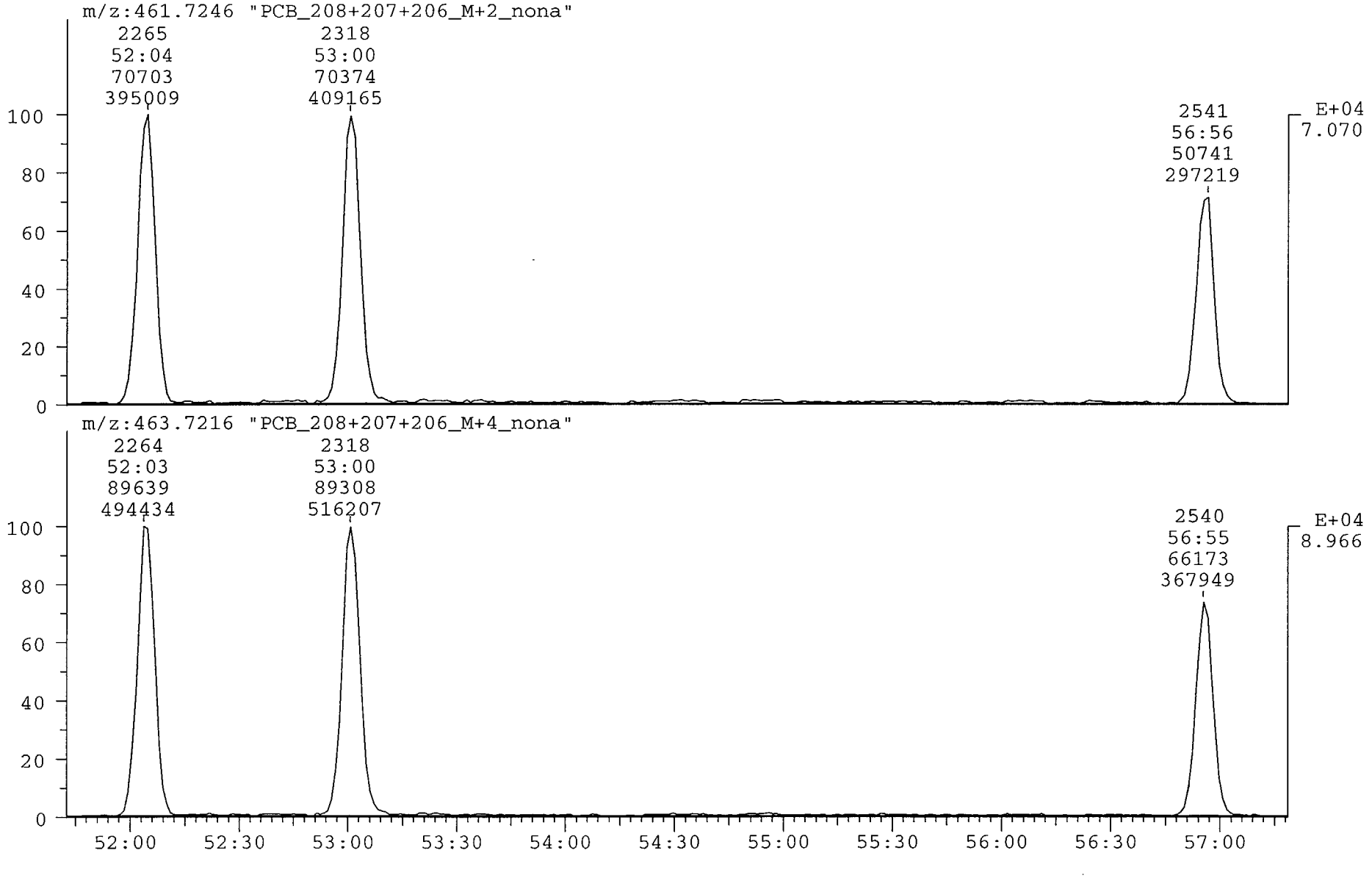
CHRO: aph2w5j1 18-Apr-06 Elapse: 54:34 2407
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2248 > 2566 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



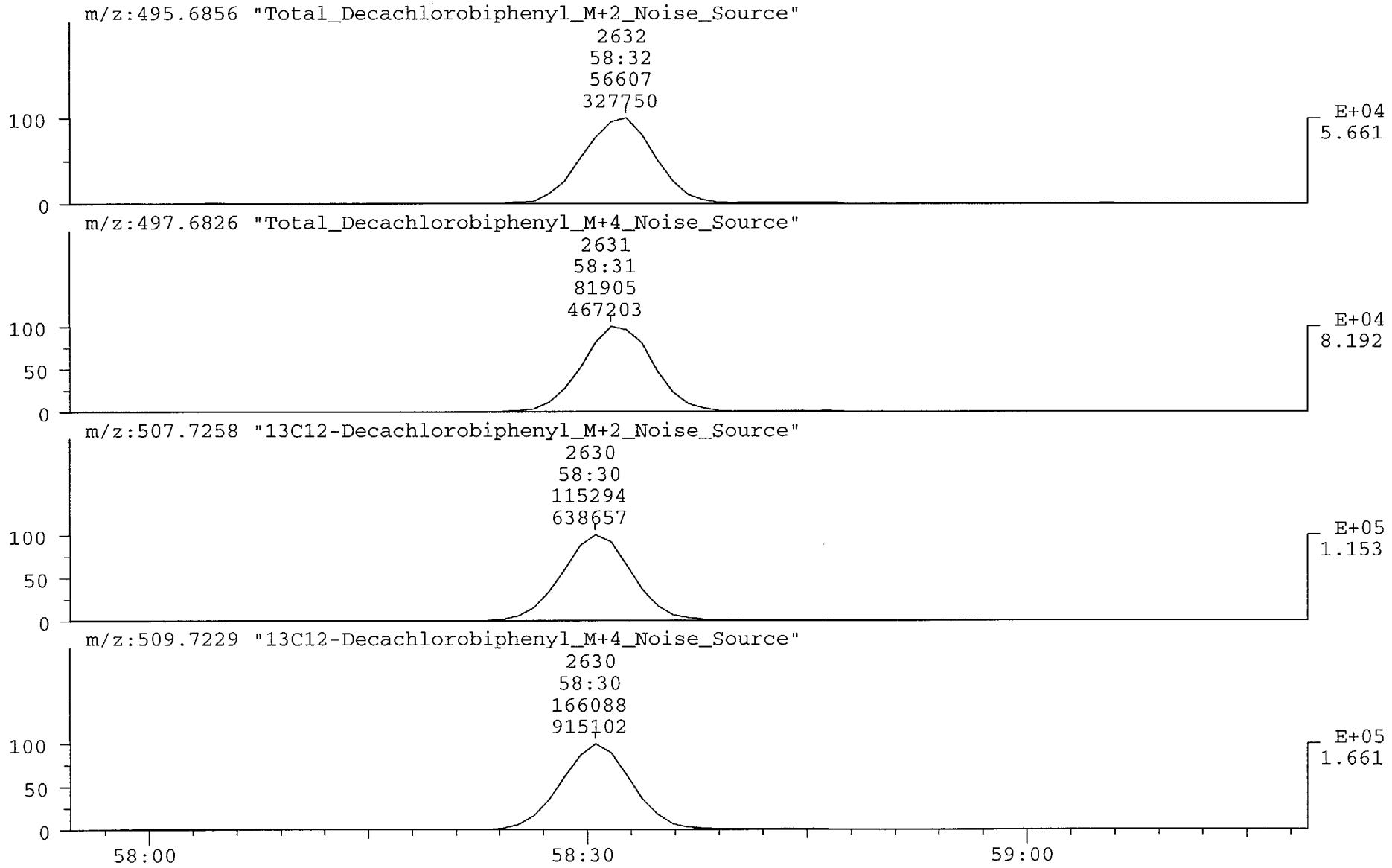
CHRO: aph2w5j1 18-Apr-06 Elapse: 54:33 2406
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2241 > 2571 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



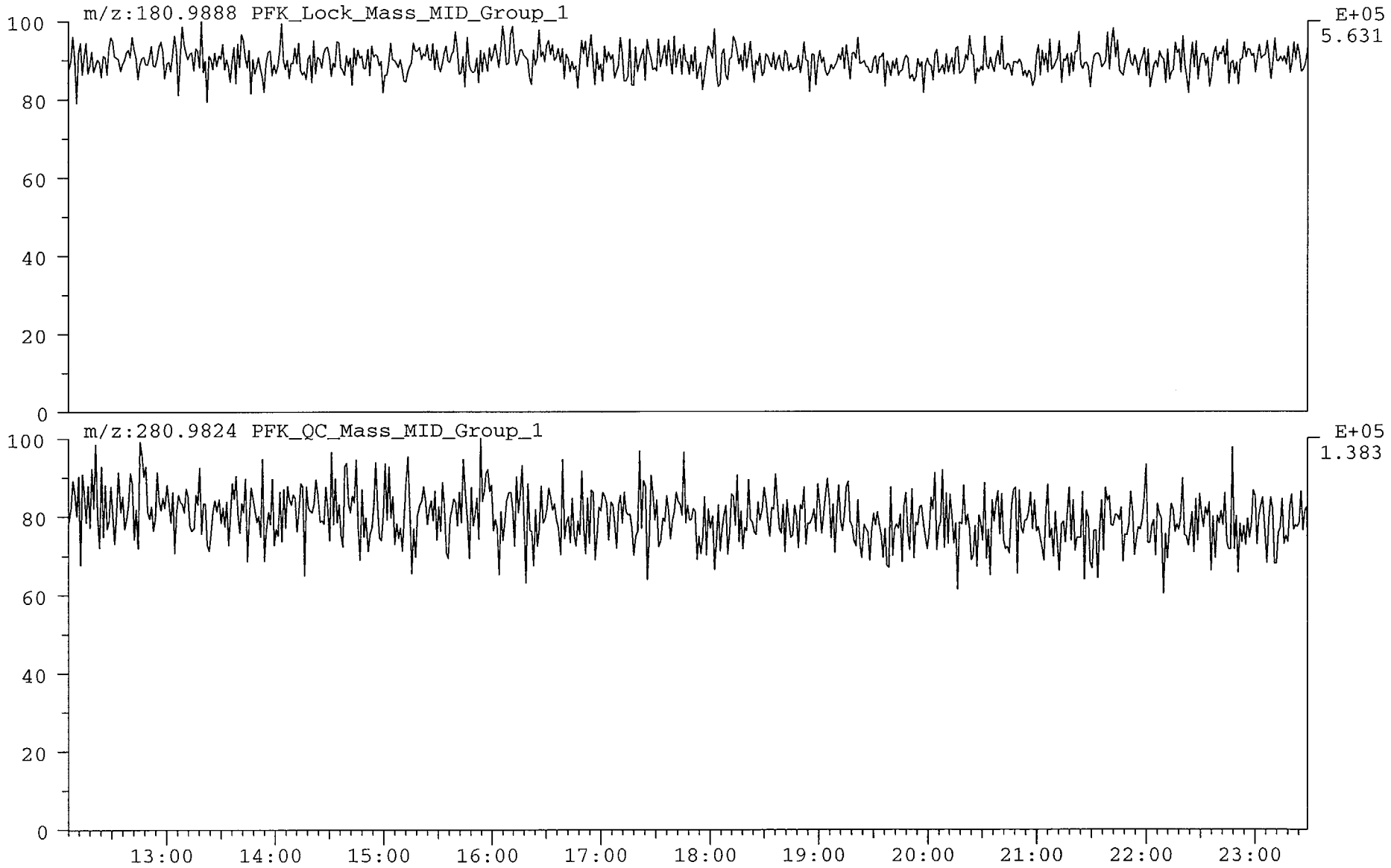
CHRO: aph2w5j1 18-Apr-06 Elapse: 54:34 2407
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2244 > 2562 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



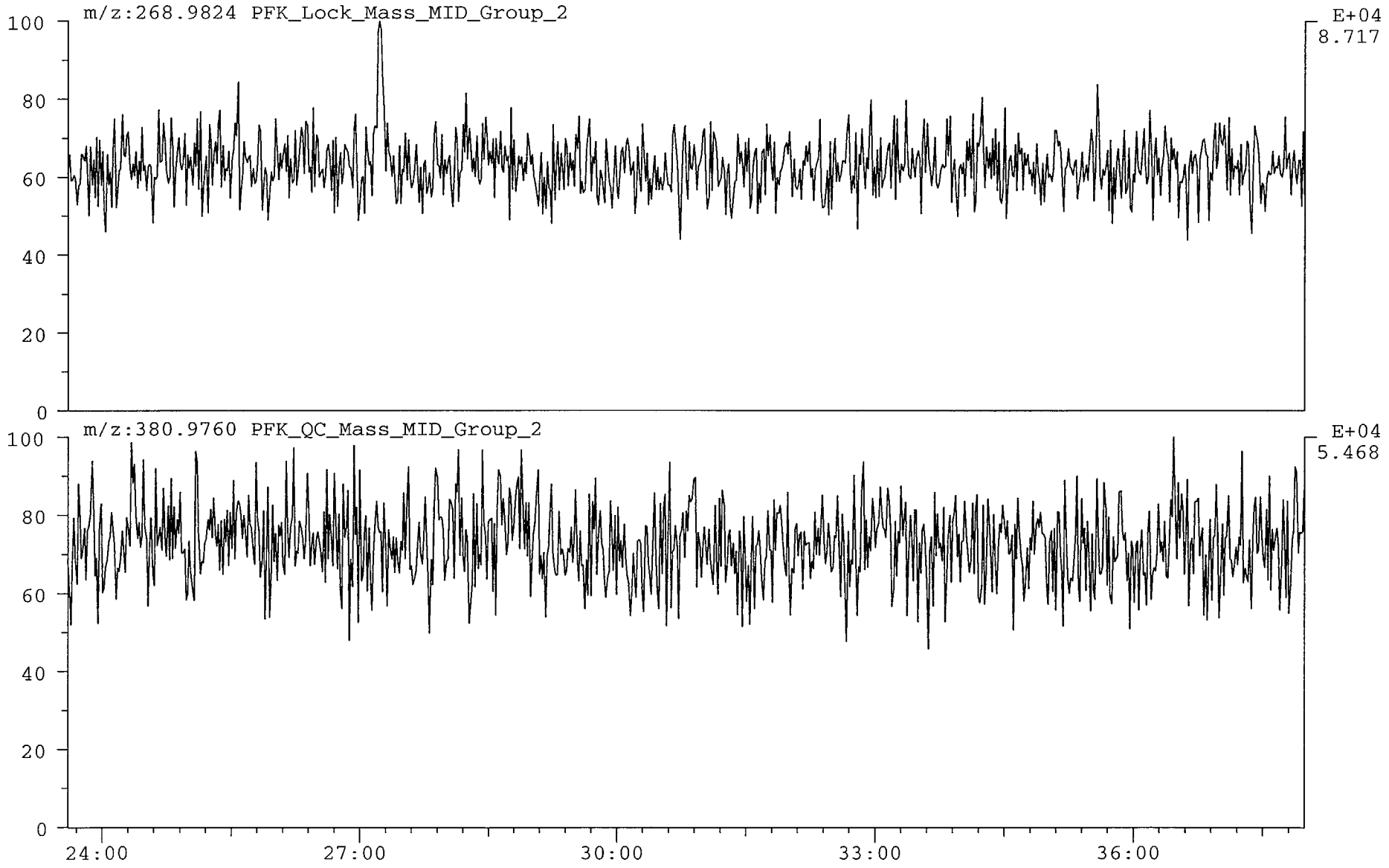
CHRO: aph2w5j1 18-Apr-06 Elapse: 58:36 2636
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2596 > 2676 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



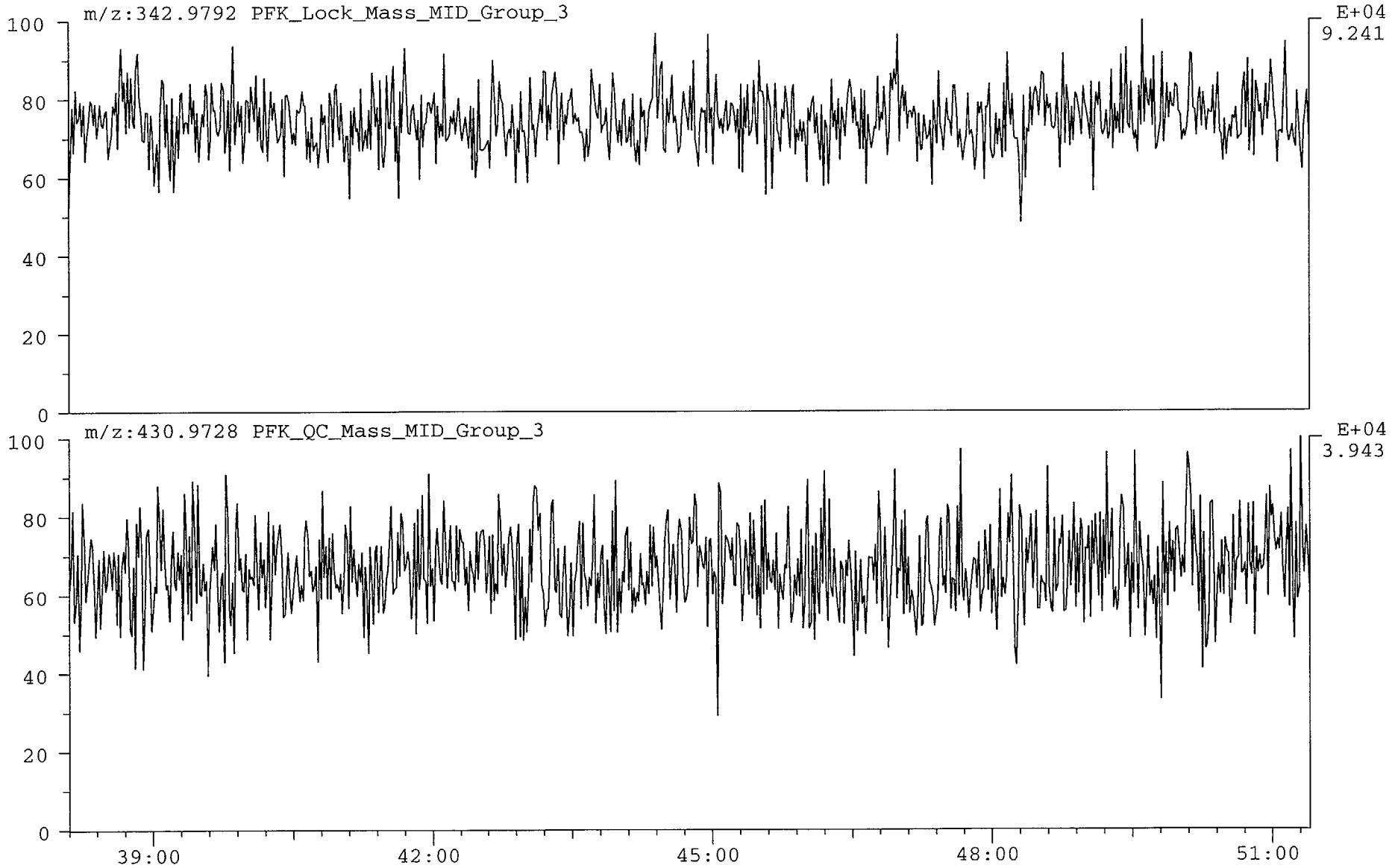
```
CHRO:  aph2w5j1                              18-Apr-06   Elapse:  58:36      2636
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                 Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100047 (air-2)
Oper:  DCG          Client:  H6D100000-047L             Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   6 > 653             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  0, 0.0
Disp:  Height  Area
```



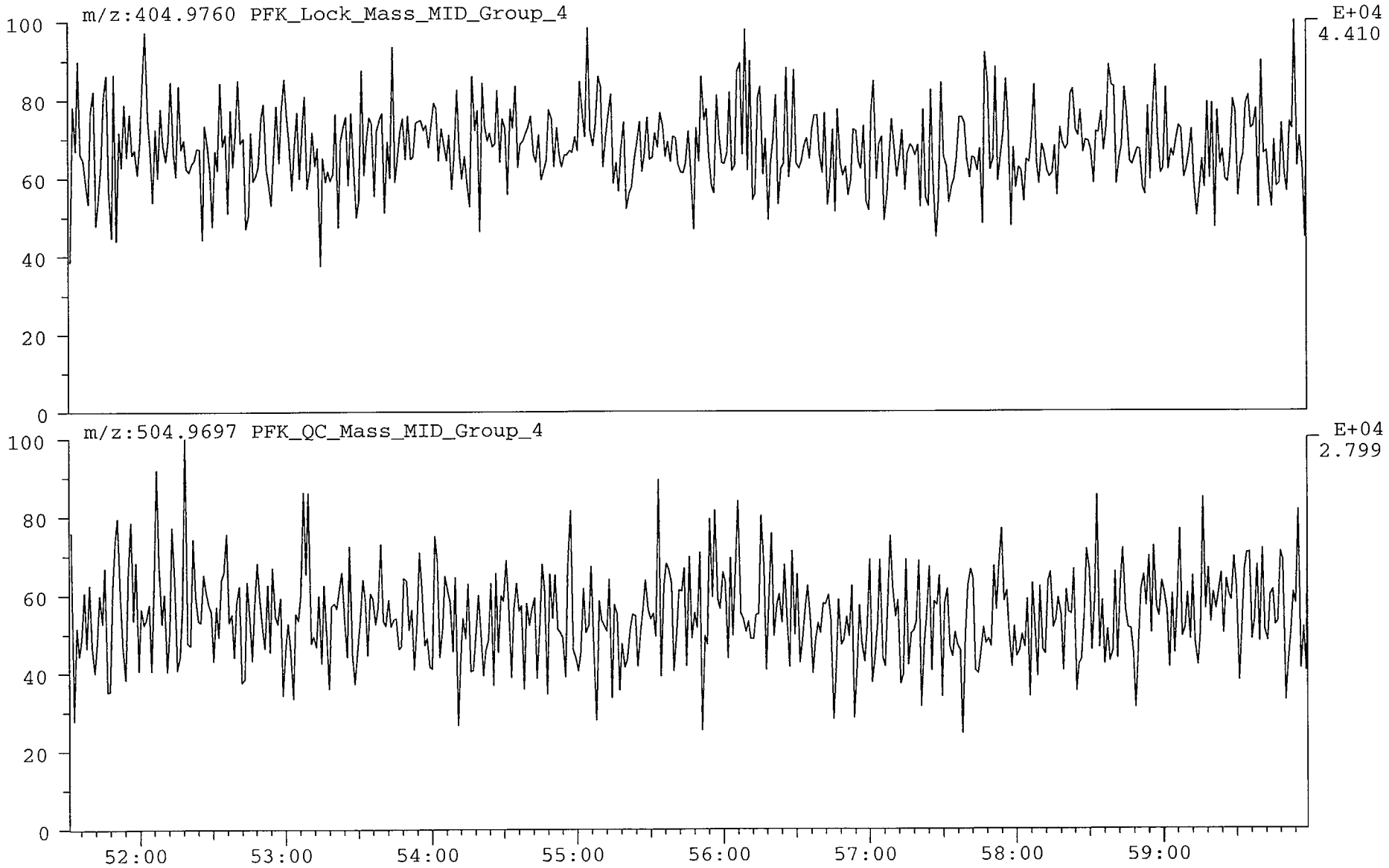
```
CHRO:  aph2w5j1                                18-Apr-06   Elapse:  58:36      2636
Samp:  Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1                   Start :  13:15:52   2716
Comm:  Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100047 (air-2)
Oper:  DCG           Client:  H6D100000-047L              Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   655 > 1473            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



CHRO: aph2w5j1 18-Apr-06 Elapse: 58:36 2636
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1475 > 2231 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



CHRO: aph2w5j1 18-Apr-06 Elapse: 58:36 2636
Samp: Vial 5 WO=h2w5j1ad Meth=IE5 Dil=1 Start : 13:15:52 2716
Comm: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100047 (air-2)
Oper: DCG Client: H6D100000-047L Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2234 > 2714 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: aph2w5j1
Study: 6100047 (air-2)
Sample: WO=h2w5j1ad Meth=IE5 Dil=1
Amount:  0.00
Volume:  0.00
Operator: DCG
Client: H6D100000-047L
Comments: Inst=m1d/137819-2 Batch=20060418s1 Ccal=20050801i
Injected volume:  2.00
Sample from Vial 5
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 3 of list 060418
  ICL procedure: sleep7x
  MID procedure: 1668_rev3

  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   12:00 min   11:30 min   23:30 min    1.00 sec
  # 2   23:30 min   14:30 min   38:00 min    1.00 sec
  # 3   38:00 min   13:25 min   51:25 min    1.00 sec
  # 4   51:25 min    8:35 min   60:00 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	
	280 deg at	59.0 minutes	
	280 deg at	60.0 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 1.2 ml

Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1033.9955
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.6471
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-16.7250
DRAWC	1.0000	DRAWS	0.0050	ECORR	1.0004
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0000
EDACR	23.0000	EDACZ	-13.0000	ELEN	68.2500
EMULT	1.4200	ENS	193.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	149.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	265.0000
FVINLET	272.0000	FVSRC	875.0000	FWIN	0.7000
GCTC	221.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.2745	HVANAL	1378.0000
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	1414.0000	LENSS	8.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2344487.2517

MDACR	23.0000	MRANGE	1033.9955	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2719.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-9.4000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6835	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2254.0000
SHIELDS	0.2000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7200	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	2.2250	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2823.0000
XLENSS	-26.8000	YLENS	3699.0000	YLENSS	-21.0000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 18-Apr-06 13:15:52.7

Autosampler has injected sample from vial 5
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 8966
MID Time Window 3: Resolution is 9525
MID Time Window 4: Resolution is 8803
Analysis stopped at: 18-Apr-06 14:15:56.1 (run time 60.04 minutes)
Analysis stopped because MID run finished

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H6D100000 - 050B **Work Order #....:** H2W5K1AA **Matrix....:** AIR
Dilution Factor: 1
Prep Date....: 04/10/06 **Analysis Date....:** 04/25/06
Prep Batch # ....: 6100050
Initial Wgt/Vol : 1 Sample **Instrument ID....:** M1D **Method:** EPA-22 1668A
Analyst ID....: Bruce F. Wagner

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Decachlorobiphenyl	ND		0.20	0.011	ng/sampl
Dichlorobiphenyl (total)	**0.35**	**Q J**	**0.40**	**0.17**	**ng/sampl**
Heptachlorobiphenyl (total)	**0.010**	**J**	**0.20**	**0.18**	**ng/sampl**
PCB 189 (BZ)	ND		0.20	0.0040	ng/sampl
Hexachlorobiphenyl (total)	**0.027**	**Q J**	**0.20**	**0.29**	**ng/sampl**
PCB 156 (BZ)	ND		0.20	0.0075	ng/sampl
PCB 157 (BZ)	ND		0.20	0.0075	ng/sampl
PCB 167 (BZ)	ND		0.20	0.0054	ng/sampl
PCB 169 (BZ)	ND		0.20	0.0086	ng/sampl
Monochlorobiphenyl (total)	**0.11**	**Q J**	**0.20**	**0.010**	**ng/sampl**
Nonachlorobiphenyl (total)	ND		0.20	0.028	ng/sampl
Octachlorobiphenyl (total)	ND		0.20	0.083	ng/sampl
Pentachlorobiphenyl (total)	**0.049**	**Q J**	**0.20**	**0.25**	**ng/sampl**
PCB 105 (BZ)	**0.0076**	**Q J**	**0.20**	**0.0043**	**ng/sampl**
PCB 114 (BZ)	ND		0.20	0.0041	ng/sampl
PCB 118 (BZ)	**0.012**	**J**	**0.20**	**0.0044**	**ng/sampl**
PCB 123 (BZ)	**0.0053**	**Q J**	**0.20**	**0.0043**	**ng/sampl**
PCB 126 (BZ)	ND		0.20	0.0055	ng/sampl
Tetrachlorobiphenyl (total)	**0.25**	**Q J**	**0.40**	**0.21**	**ng/sampl**
PCB 81 (BZ)	ND		0.20	0.0062	ng/sampl
PCB 77 (BZ)	ND		0.20	0.0070	ng/sampl
Trichlorobiphenyl (total)	**0.36**	**Q J**	**0.40**	**0.12**	**ng/sampl**

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H6D100000 - 050B
Work Order #....: H2W5K1AA
Matrix.....: AIR
Dilution Factor: 1
Prep Date....: 04/10/06
Analysis Date....: 04/25/06
Prep Batch # ....: 6100050
Initial Wgt/Vol : 1 Sample
Instrument ID....: M1D
Method: EPA-22 1668A
Analyst ID....: Bruce F. Wagner

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
13C12-PCB 1	85		30 - 140
13C12-PCB 3	80		30 - 140
13C12-PCB 4	88		30 - 140
13C12-PCB 15	79		30 - 140
13C12-PCB 19	93		30 - 140
13C12-PCB 37	89		30 - 140
13C12-PCB 54	129		30 - 140
13C12-PCB 77	82		30 - 140
13C12-PCB 81	87		30 - 140
13C12-PCB 104	93		30 - 140
13C12-PCB 105	101		30 - 140
13C12-PCB 114	99		30 - 140
13C12-PCB 118	100		30 - 140
13C12-PCB 123	94		30 - 140
13C12-PCB 126	84		30 - 140
13C12-PCB 155	119		30 - 140
13C12-PCB 156	97	C	30 - 140
13C12-PCB 157	97	C	30 - 140
13C12-PCB 167	95		30 - 140
13C12-PCB 169	60		30 - 140
13C12-PCB 170	101		30 - 140
13C12-PCB 188	99		30 - 140
13C12-PCB 189	122		30 - 140
13C12-PCB 202	108		30 - 140
13C12-PCB 205	100		30 - 140
13C12-PCB 206	87		30 - 140
13C12-PCB 208	91		30 - 140
13C12-PCB 209	87		30 - 140

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	101	40 - 125
13C12-PCB 111	97	40 - 125
13C12-PCB 178	99	40 - 125

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H6D100000 - 050B	**Work Order #....:**	H2W5K1AA	**Matrix.....:**	AIR
Dilution Factor:	1				
Prep Date.....:	04/10/06	**Analysis Date....:**	04/25/06		
Prep Batch # ....:	6100050				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	M1D	**Method:**	EPA-22 1668A
Analyst ID....:	Bruce F. Wagner				

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	H2W5K1AA	Prep Batch	6100050	Lot No	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	Prep Date	04/10/06	SDG No	
Analysis ID	90286	Prep Exp Date	04/27/06	Date Received	04/10/06
Analysis Date	4/25/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	14:54	Initial Wt/Vol	1	Lims Test Code	XXS09IE01
Anal Exp Date	05/25/06	Extract Vol	200	Method	IE5
Instrument	M1D	Dil Factor	1.0	Code	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Total Monochlorobiphenyl		30468	9260			0.107857		0.107857	QJ	0.0101
13C12-PCB 1	13:13	5272757	1542502	1.412	20.00	16.984579	84.92	16.984579		0.0157
13C12-PCB 3	15:38	4944296	1160349	1.399	20.00	16.073657	80.37	16.073657		0.0158
PCB 1 (BZ)	13:14	13621	4906	1.136		0.045470		0.045470	QJ	0.00280
PCB 2 (BZ)	15:28	8834	2267	1.050		0.032936		0.032936	QJ	0.00345
PCB 3 (BZ)	15:39	8013	2086	1.101		0.029451		0.029451	QJ	0.00384
Total Dichlorobiphenyl		74140	16968			0.351891		0.351891	QJ	0.168
13C12-PCB 4	15:53	2340016	602720	0.602	20.00	17.666623	88.33	17.666623		0.0197
13C12-PCB 9	18:01	4398494	1013650	1.000	20.00	20.000000	100.00	20.000000		0.0119
13C12-PCB 8				1.309	10.00			ND		0.0141
13C12-PCB 15	22:15	3715927	705933	1.069	20.00	15.805304	79.03	15.805304		0.0111
PCB 4 (BZ)	15:55	7795	2012	1.249		0.053328		0.053328	QJ	0.0187
PCB 10 (BZ)	16:07	4085	999	1.369		0.019709		0.019709	QJ	0.0157
PCB 9 (BZ)	18:01	5358	1145	1.492		0.023717		0.023717	QJ	0.0144
PCB 7 (BZ)	18:14	5402	1221	1.456		0.024502		0.024502	QJ	0.0148
PCB 6 (BZ)	18:30	7716	1810	1.513		0.033690		0.033690	QJ	0.0142
PCB 5 (BZ)	18:49	4190	1095	1.332		0.020780		0.020780	QJ	0.0162
PCB 8 (BZ)	18:57	11257	2503	1.519		0.048965		0.048965	QJ	0.0142
PCB 14 (BZ)	20:43	4833	1305	1.694		0.018842		0.018842	QJ	0.0127
PCB 11 (BZ)	21:35	10453	2230	1.390		0.049679		0.049679	QJ	0.0155
PCB 13 (BZ)		6293		1.422		0.029227		0.029227	QC12J	0.0152
PCB 12 (BZ)	21:57	6293	1277	1.422		0.029227		0.029227	QCJ	0.0152
PCB 15 (BZ)	22:15	6758	1372	1.235		0.029452		0.029452	QJ	0.0162
Total Trichlorobiphenyl		86185	14506			0.362938		0.362938	QJ	0.119
13C12-PCB 19	19:15	1750540	389125	0.546	20.00	18.610616	93.05	18.610616		0.0492
13C12-PCB 32	22:42	3445336	720137	1.000	20.00	20.000000	100.00	20.000000		0.0269
13C12-PCB 31	25:05	5974818	1129763	1.000	20.00	20.000000	100.00	20.000000		0.0171
13C12-PCB 28	25:23	5620594	1043558	0.935	20.00	20.113091	100.57	20.113091		0.0183
13C12-PCB 37	29:36	4623496	752745	0.867	20.00	17.853396	89.27	17.853396		0.0198
PCB 19 (BZ)	19:17	2158	594	1.265		0.019498		0.019498	QJ	0.00925
PCB 30 (BZ)	21:14	6602	1092	1.669		0.045185		0.045185	C18J	0.00700
PCB 18 (BZ)		6602		1.669		0.045185		0.045185	CJ	0.00700
PCB 17 (BZ)				1.407				ND		0.00831
PCB 27 (BZ)	21:57	2411	451	2.031		0.013561		0.013561	QJ	0.00576
PCB 24 (BZ)	22:03	2395	706	1.904		0.014368		0.014368	QJ	0.00614
PCB 16 (BZ)				1.213				ND		0.00964
PCB 32 (BZ)	22:44	2350	736	2.154		0.012467		0.012467	QJ	0.00543
PCB 34 (BZ)	24:03	4286	904	1.134		0.016353		0.016353	QJ	0.00533
PCB 23 (BZ)	24:13	4612	1279	1.119		0.017832		0.017832	QJ	0.00540
PCB 29 (BZ)		7823		1.180		0.028680		0.028680	QC26J	0.00512
PCB 26 (BZ)	24:33	7823	1444	1.180		0.028680		0.028680	QCJ	0.00512
PCB 25 (BZ)	24:46	4471	1073	1.321		0.014638		0.014638	J	0.00457
PCB 31 (BZ)	25:08	8586	1438	1.197		0.031042		0.031042	QJ	0.00505
PCB 28 (BZ)	25:28	11930	2417	1.197		0.043107		0.043107	QC20J	0.00505
PCB 20 (BZ)		11930		1.197		0.043107		0.043107	QCJ	0.00505
PCB 21 (BZ)	25:40	10924	1529	1.202		0.039302		0.039302	CJ	0.00503
PCB 33 (BZ)		10924		1.202		0.039302		0.039302	C21J	0.00503
PCB 22 (BZ)	26:05	5205	1133	1.124		0.020033		0.020033	J	0.00538
PCB 36 (BZ)	27:45	2770	559	1.107		0.010826		0.010826	QJ	0.00546

BFW 4/26/06

VMIC 4/26/06

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	14:54	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 39 (BZ)	28:06	4321	751	1.214		0.015390		0.015390	QJ	0.00498
PCB 38 (BZ)	28:41	2607	596	1.149		0.009811		0.009811	J	0.00526
PCB 35 (BZ)				1.084				ND		0.00558
PCB 37 (BZ)	29:37	2734	424	1.091		0.010843		0.010843	QJ	0.00554
Total Tetrachlorobiphenyl		41298	5837			0.249709		0.249709	QJ	0.214
13C12-PCB 54	22:31	2275042	491511	0.511	20.00	25.841876	129.21	25.841876		0.0189
13C12-PCB 52	27:16	2824840	551150	1.000	20.00	20.000000	100.00	20.000000		0.0126
13C12-PCB 79				1.099	10.00			ND		0.0124
13C12-PCB 81	36:31	3185008	525855	1.295	20.00	17.410588	87.05	17.410588		0.00974
13C12-PCB 77	37:06	3054097	495506	1.318	20.00	16.404598	82.02	16.404598		0.00957
PCB 54 (BZ)				1.208				ND		0.00690
PCB 50 (BZ)		3733		0.920		0.026020		0.026020	QCJ	0.00873
PCB 53 (BZ)	24:49	3733	910	0.920		0.026020		0.026020	QC50J	0.00873
PCB 45 (BZ)	25:34	3131	467	0.851		0.023593		0.023593	QCJ	0.00944
PCB 51 (BZ)		3131		0.851		0.023593		0.023593	QC45J	0.00944
PCB 46 (BZ)				0.689				ND		0.0117
PCB 52 (BZ)	27:18	2089	595	0.909		0.014724		0.014724	QJ	0.00883
PCB 73 (BZ)	27:31	2984	529	0.936		0.020430		0.020430	QC43J	0.00857
PCB 43 (BZ)		2984		0.936		0.020430		0.020430	QCJ	0.00857
PCB 69 (BZ)	27:47	3864	763	1.079		0.022968		0.022968	QC49J	0.00744
PCB 49 (BZ)		3864		1.079		0.022968		0.022968	QCJ	0.00744
PCB 48 (BZ)				0.846				ND		0.00949
PCB 65 (BZ)		5586		1.004		0.035669		0.035669	QC44J	0.00800
PCB 47 (BZ)		5586		1.004		0.035669		0.035669	QC44J	0.00800
PCB 44 (BZ)	28:22	5586	1317	1.004		0.035669		0.035669	QCJ	0.00800
PCB 62 (BZ)		4595		1.279		0.023026		0.023026	QC59J	0.00628
PCB 75 (BZ)		4595		1.279		0.023026		0.023026	QC59J	0.00628
PCB 59 (BZ)	28:44	4595	785	1.279		0.023026		0.023026	QCJ	0.00628
PCB 42 (BZ)				0.838				ND		0.00958
PCB 41 (BZ)		2923		0.872		0.021498		0.021498	C40J	0.00921
PCB 71 (BZ)		2923		0.872		0.021498		0.021498	C40J	0.00921
PCB 40 (BZ)	29:24	2923	614	0.872		0.021498		0.021498	CJ	0.00921
PCB 64 (BZ)	29:37	2239	745	1.341		0.010707		0.010707	QJ	0.00599
PCB 72 (BZ)				1.203				ND		0.00667
PCB 68 (BZ)	30:47	1833	411	1.294		0.009080		0.009080	J	0.00620
PCB 57 (BZ)				1.203				ND		0.00667
PCB 58 (BZ)				1.235				ND		0.00650
PCB 67 (BZ)				1.394				ND		0.00576
PCB 63 (BZ)				1.331				ND		0.00603
PCB 61 (BZ)		5306		1.280		0.026574		0.026574	QCJ	0.00627
PCB 70 (BZ)		5306		1.280		0.026574		0.026574	QC61J	0.00627
PCB 76 (BZ)	32:15	5306	712	1.280		0.026574		0.026574	QC61J	0.00627
PCB 74 (BZ)		5306		1.280		0.026574		0.026574	QC61J	0.00627
PCB 66 (BZ)	32:34	3015	778	1.254		0.015420		0.015420	QJ	0.00640
PCB 55 (BZ)				1.137				ND		0.00706
PCB 56 (BZ)				1.202				ND		0.00668
PCB 60 (BZ)				1.128				ND		0.00712
PCB 80 (BZ)				1.301				ND		0.00617
PCB 79 (BZ)				1.449				ND		0.00554

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	14:54	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 78 (BZ)				1.109				ND		0.00724
PCB 81 (BZ)				1.251				ND		0.00623
PCB 77 (BZ)				1.179				ND		0.00702
Total Pentachlorobiphenyl		8748	1790			0.048825		0.048825	QJ	0.253
13C12-PCB 104	28:14	2178376	425945	1.259	20.00	18.583518	92.92	18.583518		0.0235
13C12-PCB 95				0.738	10.00			ND		0.0323
13C12-PCB 101	34:19	1861449	342367	1.000	20.00	20.000000	100.00	20.000000		0.0296
13C12-PCB 111	37:03	2284170	416772	1.262	20.00	19.445186	97.23	19.445186		0.0235
13C12-PCB 123	39:04	4388188	781213	0.978	20.00	18.816180	94.08	18.816180		0.0127
13C12-PCB 118	39:24	4835618	844019	1.014	20.00	19.997093	99.99	19.997093		0.0122
13C12-PCB 114	39:58	4633784	777222	0.981	20.00	19.810013	99.05	19.810013		0.0126
13C12-PCB 105	40:38	4523525	776778	0.939	20.00	20.200445	101.00	20.200445		0.0132
13C12-PCB 127	42:07	4769555	819977	1.000	20.00	20.000000	100.00	20.000000		0.0124
13C12-PCB 126	43:47	3874179	636474	0.971	20.00	16.735028	83.68	16.735028		0.0128
PCB 104 (BZ)				1.157				ND		0.00761
PCB 96 (BZ)				1.047				ND		0.00841
PCB 103 (BZ)				0.859				ND		0.0102
PCB 94 (BZ)				0.724				ND		0.0122
PCB 95 (BZ)				0.817				ND		0.0108
PCB 100 (BZ)				0.836				ND	C93	0.0105
PCB 93 (BZ)				0.836				ND	C	0.0105
PCB 102 (BZ)				0.848				ND	C98	0.0104
PCB 98 (BZ)				0.848				ND	C	0.0104
PCB 88 (BZ)				0.791				ND	C	0.0111
PCB 91 (BZ)				0.791				ND	C88	0.0111
PCB 84 (BZ)				0.681				ND		0.0129
PCB 89 (BZ)				0.718				ND		0.0123
PCB 121 (BZ)				1.140				ND		0.00772
PCB 92 (BZ)				0.819				ND		0.0107
PCB 113 (BZ)				0.979				ND	C90	0.00900
PCB 90 (BZ)				0.979				ND	C	0.00900
PCB 101 (BZ)				0.979				ND	C90	0.00900
PCB 83 (BZ)				0.797				ND	C	0.0110
PCB 99 (BZ)				0.797				ND	C83	0.0110
PCB 112 (BZ)				1.110				ND		0.00793
PCB 109 (BZ)/108 (IUPAC)				0.991				ND	C86	0.00888
PCB 86 (BZ)				0.991				ND	C	0.00888
PCB 119 (BZ)				0.991				ND	C86	0.00888
PCB 97 (BZ)				0.991				ND	C86	0.00888
PCB 125 (BZ)				0.991				ND	C86	0.00888
PCB 87 (BZ)				0.991				ND	C86	0.00888
PCB 117 (BZ)		2598		0.989		0.024109		0.024109	QC85J	0.00890
PCB 116 (BZ)		2598		0.989		0.024109		0.024109	QC85J	0.00890
PCB 85 (BZ)	36:13	2598	400	0.989		0.024109		0.024109	QCJ	0.00890
PCB 110 (BZ)				1.142				ND	C	0.00771
PCB 115 (BZ)				1.142				ND	C110	0.00771
PCB 82 (BZ)				0.679				ND		0.0130
PCB 111 (BZ)				1.195				ND		0.00737
PCB 120 (BZ)				1.179				ND		0.00747

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	14:54	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 124 (BZ)				0.995				ND	C108	0.00494
PCB 108 (BZ)/107 (IUPAC)				0.995				ND	C	0.00494
PCB 107 (BZ)/109 (IUPAC)				1.015				ND		0.00484
PCB 123 (BZ)	39:07	1295	248	1.110		0.005318		0.005318	QJ	0.00433
PCB 106 (BZ)				0.963				ND		0.00510
PCB 118 (BZ)	39:27	2922	758	1.021		0.011833		0.011833	J	0.00435
PCB 122 (BZ)				0.957				ND		0.00514
PCB 114 (BZ)				1.173				ND		0.00412
PCB 105 (BZ)	40:39	1933	383	1.130		0.007564		0.007564	QJ	0.00427
PCB 127 (BZ)				1.066				ND		0.00461
PCB 126 (BZ)				1.074				ND		0.00548
Total Hexachlorobiphenyl		3433	459			0.026652		0.026652	QJ	0.286
13C12-PCB 155	34:03	2235066	424327	1.013	20.00	23.706942	118.53	23.706942		0.0244
13C12-PCB 153				0.845	10.00			ND		0.0227
13C12-PCB 138	42:33	2794680	506679	1.000	20.00	20.000000	100.00	20.000000		0.0167
13C12-PCB 167	45:37	3305522	578765	1.250	20.00	18.923572	94.62	18.923572		0.0133
13C12-PCB 156	46:48	6700918	861261	1.237	40.00	38.769651	96.92	38.769651		0.0135
13C12-PCB 157								ND		0.000000
13C12-PCB 169	50:06	1938564	323725	1.164	20.00	11.919029	59.60	11.919029		0.0143
PCB 155 (BZ)				1.131				ND		0.00750
PCB 152 (BZ)				1.067				ND		0.00795
PCB 150 (BZ)				1.059				ND		0.00801
PCB 136 (BZ)				1.009				ND		0.00841
PCB 145 (BZ)				1.021				ND		0.00831
PCB 148 (BZ)				0.738				ND		0.0115
PCB 151 (BZ)				0.732				ND	C135	0.0116
PCB 135 (BZ)				0.732				ND	C	0.0116
PCB 154 (BZ)				0.899				ND		0.00944
PCB 144 (BZ)				0.757				ND		0.0112
PCB 147 (BZ)	38:12	2009	511	0.825		0.016301		0.016301	QCJ	0.00989
PCB 149 (BZ)		2009		0.825		0.016301		0.016301	QC147J	0.00989
PCB 134 (BZ)				0.694				ND	C	0.0118
PCB 143 (BZ)				0.694				ND	C134	0.0118
PCB 139 (BZ)				0.828				ND	C	0.00986
PCB 140 (BZ)				0.828				ND	C139	0.00986
PCB 131 (BZ)				0.687				ND		0.0119
PCB 142 (BZ)				0.705				ND		0.0116
PCB 132 (BZ)				0.708				ND		0.0115
PCB 133 (BZ)				0.777				ND		0.0105
PCB 165 (BZ)				0.989				ND		0.00825
PCB 146 (BZ)				0.862				ND		0.00947
PCB 161 (BZ)				1.128				ND		0.00724
PCB 153 (BZ)				1.070				ND	C	0.00763
PCB 168 (BZ)				1.070				ND	C153	0.00763
PCB 141 (BZ)				0.738				ND		0.0111
PCB 130 (BZ)				0.694				ND		0.0118
PCB 137 (BZ)				0.944				ND	C	0.00865
PCB 164 (BZ)				0.944				ND	C137	0.00865
PCB 138 (BZ)	42:37	1425	459	0.922		0.010351		0.010351	QC129J	0.00886

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	14:54	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 163 (BZ)		1425		0.922		0.010351		0.010351	QC129J	0.00886
PCB 129 (BZ)		1425		0.922		0.010351		0.010351	QCJ	0.00886
PCB 160 (BZ)		1425		0.922		0.010351		0.010351	QC129J	0.00886
PCB 158 (BZ)				1.197				ND		0.00682
PCB 166 (BZ)				0.941				ND	C128	0.00868
PCB 128 (BZ)				0.941				ND	C	0.00868
PCB 159 (BZ)				1.100				ND		0.00742
PCB 162 (BZ)				1.110				ND		0.00735
PCB 167 (BZ)				1.150				ND		0.00541
PCB 156 (BZ)				1.113				ND	C	0.00751
PCB 157 (BZ)				1.113				ND	C156	0.00751
PCB 169 (BZ)				1.294				ND		0.00860
Total Heptachlorobiphenyl		1171				0.010369		0.010369	J	0.178
13C12-PCB 188	39:54	2474577	456734	1.268	20.00	19.872886	99.36	19.872886		0.0149
13C12-PCB 178	43:00	1673909	308986	0.858	20.00	19.867540	99.34	19.867540		0.0220
13C12-PCB 180	48:10	1963896	357230	1.000	20.00	20.000000	100.00	20.000000		0.0189
13C12-PCB 170	49:28	1585929	268030	0.798	20.00	20.242562	101.21	20.242562		0.0237
13C12-PCB 189	52:37	4161725	729238	1.748	20.00	24.385895	121.93	24.385895		0.0112
PCB 188 (BZ)				1.072				ND		0.00653
PCB 179 (BZ)				1.196				ND		0.00739
PCB 184 (BZ)				1.185				ND		0.00745
PCB 176 (BZ)				1.264				ND		0.00699
PCB 186 (BZ)				1.204				ND		0.00734
PCB 178 (BZ)				0.868				ND		0.0102
PCB 175 (BZ)				0.934				ND		0.00945
PCB 187 (BZ)				1.011				ND		0.00873
PCB 182 (BZ)				0.989				ND		0.00893
PCB 183 (BZ)				0.939				ND	C	0.00941
PCB 185 (BZ)				0.939				ND	C183	0.00941
PCB 174 (BZ)				0.912				ND		0.00969
PCB 177 (BZ)				0.866				ND		0.0102
PCB 181 (BZ)				0.961				ND		0.00919
PCB 171 (BZ)				0.828				ND	C	0.0107
PCB 173 (BZ)				0.828				ND	C171	0.0107
PCB 172 (BZ)				0.829				ND		0.0106
PCB 192 (BZ)				1.115				ND		0.00792
PCB 193 (BZ)	48:11	1171	384	1.112		0.010369		0.010369	C180J	0.00794
PCB 180 (BZ)		1171		1.112		0.010369		0.010369	CJ	0.00794
PCB 191 (BZ)				1.264				ND		0.00698
PCB 170 (BZ)				1.040				ND		0.0115
PCB 190 (BZ)				1.213				ND		0.00728
PCB 189 (BZ)				1.085				ND		0.00405
Total Octachlorobiphenyl								ND		0.0831
13C12-PCB 202	45:20	1930859	367136	0.910	20.00	21.603849	108.02	21.603849		0.0148
13C12-PCB 194	54:44	1952817	344741	1.000	20.00	20.000000	100.00	20.000000		0.0139
13C12-PCB 205	55:13	2756690	485054	1.413	20.00	19.977050	99.89	19.977050		0.00985
PCB 202 (BZ)				0.986				ND		0.00801
PCB 200 (BZ)/201 (IUPAC)				1.114				ND		0.00709
PCB 204 (BZ)				1.050				ND		0.00752

STL - Knoxville **IsoCalc Preliminary Sample Report**

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

IsoCalc

Workorder	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	14:54	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 197 (BZ)				1.067				ND	C	0.00740
PCB 199 (BZ)/200 (IUPAC)				1.067				ND	C197	0.00740
PCB 198 (BZ)				0.737				ND	C	0.0107
PCB 201 (BZ)/199 (IUPAC)				0.737				ND	C198	0.0107
PCB 196 (BZ)				0.742				ND		0.0106
PCB 203 (BZ)				0.820				ND		0.00963
PCB 195 (BZ)				0.719				ND		0.00831
PCB 194 (BZ)				0.788				ND		0.00759
PCB 205 (BZ)				0.971				ND		0.00615
Total Nonachlorobiphenyl								ND		0.0284
13C12-PCB 208	52:06	2007922	366864	1.130	20.00	18.198653	90.99	18.198653		0.0117
13C12-PCB 206	56:57	1317674	232442	0.773	20.00	17.447920	87.24	17.447920		0.0171
PCB 208 (BZ)				1.041				ND		0.00812
PCB 207 (BZ)				1.284				ND		0.00806
PCB 206 (BZ)				1.092				ND		0.0122
13C12-PCB 209	58:34	1410738	251122	0.834	20.00	17.328548	86.64	17.328548		0.0124
PCB 209 (BZ)				1.053				ND		0.0112

STL - Knoxville

IsoCalc Preliminary Peak Report

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

IsoCalc

Workorder	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 14:54	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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	123	123	49	49	1.00 *	/	
	PCB 1 (BZ)	13:14	13:12	2	12520	3298 ✓	3970	1188	3.80 *	MBB/ABB	R
	PCB 2 (BZ)	15:28	15:26	2	7870	2139 ✓	1977	549	3.68 *	ABB/ABB	R
	PCB 3 (BZ)	15:39	15:37	2	6073	2596 ✓	1581	602	2.34 *	MBB/MBB	R
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	395	728	158	291	0.54 *	/	
	13C12-PCB 1	13:13	13:12	1	4001289	1271468 ✓	1169420	373082	3.15	AVV/AVV	
	13C12-PCB 3	15:38	15:36	2	3787479	1156817 ✓	889341	271008	3.27	ABV/ABV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	180	525	72	210	0.34 *	/	
	PCB 4 (BZ)	15:55	15:54	1	4750	8000 ✓	1226	1342	0.59 *	MBV/MBB	RT
	PCB 10 (BZ)	16:07	16:06	1	2489	5346 ✓	609	1142	0.47 *	MVB/MVV	RT
	PCB 9 (BZ)	18:01	18:03	-2	3265	4221 ✓	698	1096	0.77 *	MVV/MVV	R
	PCB 7 (BZ)	18:14	18:13	1	3292	7630 ✓	744	1415	0.43 *	MVV/MVV	R
	PCB 6 (BZ)	18:30	18:29	1	4702	5641 ✓	1103	1123	0.83 *	MVV/MVV	R
	PCB 5 (BZ)	18:49	18:49	0	2553	3333 ✓	667	895	0.77 *	MVV/MVV	R
	PCB 8 (BZ)	18:57	18:57	0	6860	5593 ✓	1525	1342	1.23 *	MVV/MVV	R
	PCB 14 (BZ)	20:43	20:42	1	2945	6475 ✓	795	1391	0.45 *	MVV/MVV	R
	PCB 11 (BZ)	21:35	21:36	-1	6370	7409 ✓	1359	1929	0.86 *	MVV/MVV	R
	PCB 12 (BZ)	21:57	21:57	0	3835	6498 ✓	778	1384	0.59 *	MVV/MVV	R
	PCB 15 (BZ)	22:15	22:13	2	4118	10832 ✓	836	1466	0.38 *	MVV/MVV	R
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	363	240	145	96	1.51	/	
	13C12-PCB 4	15:53	15:53	0	1426757	913259 ✓	365848	236872	1.56	ABV/ABV	
	13C12-PCB 9	18:01	18:01	0	2706054	1692440 ✓	619074	394576	1.60	ABV/ABV	
	13C12-PCB 15	22:15	22:13	2	2289265	1426662 ✓	437851	268082	1.60	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	123	105	49	42	1.17	/	
	PCB 19 (BZ)	19:17	19:15	2	1294	1058 ✓	300	291	1.22 *	ABB/ABB	R
	PCB 30 (BZ)	21:14	21:15	-1	3537	3065 ✓	534	558	1.15	ABB/ABB	
	PCB 27 (BZ)	21:57	21:56	1	1229	1629 ✓	230	390	0.75 *	ABV/ABV	R
	PCB 24 (BZ)	22:03	22:04	-1	1527	1174 ✓	361	346	1.30 *	AVV/MVV	RT
	PCB 32 (BZ)	22:44	22:46	-2	1979	1152 ✓	459	361	1.72 *	ABV/ABB	R
	PCB 34 (BZ)	24:03	24:05	-2	2869	2101 ✓	458	443	1.37 *	ABV/ABV	R
	PCB 23 (BZ)	24:13	24:14	-1	3138	2261 ✓	537	627	1.39 *	AVB/AVB	R
	PCB 26 (BZ)	24:33	24:34	-1	4660	3835 ✓	831	708	1.22 *	ABV/ABB	R
	PCB 25 (BZ)	24:46	24:47	-1	2361	2110 ✓	736	337	1.12	MVB/ABB	
	PCB 31 (BZ)	25:08	25:08	0	5523	4209 ✓	1230	705	1.31 *	MBB/ABB	R
	PCB 28 (BZ)	25:28	25:26	2	7240	5848 ✓	1228	1185	1.24 *	ABB/ABV	R
	PCB 21 (BZ)	25:40	25:37	3	5295	5629 ✓	808	721	0.94	ABB/AVB	
	PCB 22 (BZ)	26:05	26:06	-1	2699	2506 ✓	617	516	1.08	ABB/ABB	
	PCB 36 (BZ)	27:45	27:44	1	1412	1714 ✓	285	391	0.82 *	MVV/MVV	R
	PCB 39 (BZ)	28:06	28:06	0	2920	2118 ✓	626	368	1.38 *	MVV/MVV	R

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	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 14:54	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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 38 (BZ)	28:41	28:43	-2	1414	1193 ✓	254	342	1.19	MVV/MVV	
	PCB 37 (BZ)	29:37	29:35	2	1684	1340 ✓	424	208	1.26 *	MVV/MVV	R
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	538	430	215	172	1.25 *	/	
	13C12-PCB 19	19:15	19:15	0	886262	864278 ✓	196797	192328	1.03	ABV/AVV	
	13C12-PCB 32	22:42	22:43	-1	1736653	1708683 ✓	363295	356842	1.02	AVV/AVV	
	13C12-PCB 31	25:05	25:06	-1	3092483	2882335 ✓	589848	539915	1.07	ABV/ABV	
	13C12-PCB 28	25:23	25:25	-2	2880707	2739887 ✓	534499	509059	1.05	AVV/AVV	
	13C12-PCB 37	29:36	29:34	2	2407368	2216128 ✓	396725	356020	1.09	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	100	105	40	42	0.95 *	/	
	PCB 53 (BZ)	24:49	24:50	-1	1624	2682 ✓	396	426	0.61 *	ABB/ABB	R
	PCB 45 (BZ)	25:34	25:33	1	1607	1769 ✓	242	264	0.91 *	ABB/ABB	R
	PCB 52 (BZ)	27:18	27:21	-3	1539	1180 ✓	689	336	1.30 *	MBB/MBB	R
	PCB 73 (BZ)	27:31	27:30	1	1298	2066 ✓	230	414	0.63 *	MVV/MVV	RT
	PCB 69 (BZ)	27:47	27:47	0	2119	2183 ✓	358	431	0.97 *	MBB/ABB	RT
	PCB 44 (BZ)	28:22	28:21	1	2430	3911 ✓	573	924	0.62 *	AVB/MBB	R
	PCB 59 (BZ)	28:44	28:42	2	1955	2640 ✓	359	426	0.74	ABB/ABB	T
	PCB 40 (BZ)	29:24	29:24	0	1279	1644 ✓	244	370	0.78	MVV/MVV	
	PCB 64 (BZ)	29:37	29:38	-1	974	2128 ✓	324	428	0.46 *	MVV/MVV	R
	PCB 68 (BZ)	30:47	30:48	-1	808	1025 ✓	225	186	0.79	ABB/ABB	D
	PCB 76 (BZ)	32:15	32:16	-1	3552	2998 ✓	441	402	1.18 *	ABB/ABB	RTM
	PCB 66 (BZ)	32:34	32:37	-3	1405	1610 ✓	246	532	0.87	ABB/ABB	DT
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	165	183	66	73	0.90 *	/	
	13C12-PCB 54	22:31	22:32	-1	995154	1279888 ✓	212599	278912	0.78	ABV/ABV	
	13C12-PCB 52	27:16	27:19	-3	1262972	1561868 ✓	246655	304495	0.81	ABV/ABV	
	Unidentified	36:03	00:00	0	6990	9553	1125	1990	0.73	ABB/ABB	
	13C12-PCB 81	36:31	36:29	2	1421254	1763754 ✓	235111	290744	0.81	ABV/ABV	
	13C12-PCB 77	37:06	37:03	3	1367400	1686697 ✓	223208	272298	0.81	AVV/AVV	
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	98	90	39	36	1.08 *	/	
	PCB 85 (BZ)	36:13	36:14	-1	1579	1766 ✓	243	327	0.89 *	ABB/ABB	R
	PCB 123 (BZ)	39:07	39:06	1	787	1141 ✓	151	198	0.69 *		RM
	PCB 118 (BZ)	39:27	39:27	0	1675	1247 ✓	324	434	1.34	MVV/MVV	
	PCB 105 (BZ)	40:39	40:39	0	1175	907 ✓	233	192	1.30 *	MVV/MVV	R
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	275	233	110	93	1.18 *	/	
	13C12-PCB 104	28:14	28:18	-4	1332101	846275 ✓	261415	164530	1.57	ABV/ABV	
	13C12-PCB 101	34:19	34:21	-2	1133988	727461 ✓	212316	130051	1.56	ABV/AVV	
	13C12-PCB 111	37:03	37:05	-2	1386660	897510 ✓	255549	161223	1.55	ABV/AVV	
	Unidentified	37:26	00:00	0	13995	8725	1373	879	1.60	AVV/AVV	T
	13C12-PCB 123	39:04	39:05	-1	2713334	1674854 ✓	485133	296080	1.62	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 (Solid/Air Table 4)

IsoCalc

Workorder	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 14:54	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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 118	39:24	39:25	-1	3001236	1834382 ✓	526370	317649	1.64	AVV/AVV	
	13C12-PCB 114	39:58	39:58	0	2879425	1754359 ✓	479705	297517	1.64	AVV/AVV	
	13C12-PCB 105	40:38	40:37	1	2814080	1709445 ✓	485452	291326	1.65	ABV/AVV	
	13C12-PCB 127	42:07	42:05	2	2955516	1814039 ✓	508393	311584	1.63	ABV/ABV	
	13C12-PCB 126	43:47	43:44	3	2384990	1489189 ✓	392967	243507	1.60	ABV/ABV	
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	Noise	00:00	00:00	0	93	88	37	35	1.06	/	
	PCB 147 (BZ)	38:12	38:16	-4	1112	1252 ✓	283	374	0.89 *	ABB/ABB	RT
	PCB 138 (BZ)	42:37	42:34	3	1099	636 ✓	336	205	1.73 *	MBB/MBB	R
372					**371.8817**	**373.8788**	**371.8817**	**373.8788**	**1.05-1.43**		
	Noise	00:00	00:00	0	220	203	88	81	1.09	/	
	13C12-PCB 155	34:03	34:07	-4	1229688	1005378 ✓	233667	190660	1.22	ABV/ABV	M
	13C12-PCB 138	42:33	42:33	0	1572987	1221693 ✓	287264	219415	1.29	ABV/ABV	
	Unidentified	43:00	00:00	0	28272	16839	5417	2635	1.68 *	AVB/AVB	R
	13C12-PCB 167	45:37	45:36	1	1870288	1435234 ✓	330755	248010	1.30	AVV/AVV	
	13C12-PCB 156	46:48	46:47	1	3754766	2946152 ✓	480458	380803	1.27	AVV/AVV	
	13C12-PCB 169	50:06	50:03	3	1094464	844100 ✓	184688	139037	1.30	ABV/ABV	D
394					**393.8025**	**395.7995**	**393.8025**	**395.7995**	**0.89-1.21**		
	Noise	00:00	00:00	0	80	80	32	32	1.00	/	
	PCB 193 (BZ)	48:11	48:08	3	604	567 ✓	213	171	1.07	ABB/MBB	
406					**405.8428**	**407.8398**	**405.8428**	**407.8398**	**0.89-1.21**		
	Noise	00:00	00:00	0	175	163	70	65	1.08	/	
	13C12-PCB 188	39:54	39:57	-3	1262530	1212047 ✓	232450	224284	1.04	ABV/ABV	
	13C12-PCB 178	43:00	43:00	0	849580	824329 ✓	155988	152998	1.03	ABV/ABV	
	13C12-PCB 180	48:10	48:11	-1	1007053	956843 ✓	182661	174569	1.05	ABV/ABV	
	13C12-PCB 170	49:28	49:27	1	814037	771892 ✓	139997	128033	1.05	AVV/AVV	
	13C12-PCB 189	52:37	52:36	1	2167257	1994468 ✓	373785	355453	1.09	ABV/ABV	
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**		
	Noise	00:00	00:00	0	68	78	27	31	0.87	/	
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**		
	Noise	00:00	00:00	0	128	113	51	45	1.13 *	/	
	13C12-PCB 202	45:20	45:22	-2	903263	1027596 ✓	172942	194194	0.88	ABV/ABV	
	13C12-PCB 194	54:44	54:42	2	939524	1013293 ✓	167678	177063	0.93	ABV/ABV	
	13C12-PCB 205	55:13	55:11	2	1307530	1449160 ✓	237433	247621	0.90	ABV/AVV	
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**		
	Noise	00:00	00:00	0	73	83	29	33	0.88	/	
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	52:06	52:07	-1	887497	1120425 ✓	166169	200695	0.79	ABV/ABV	
	13C12-PCB 206	56:57	56:57	0	571086	746588 ✓	100866	131576	0.76	ABV/ABV	
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**		
	Noise	00:00	00:00	0	70	78	28	31	0.90 *	/	

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

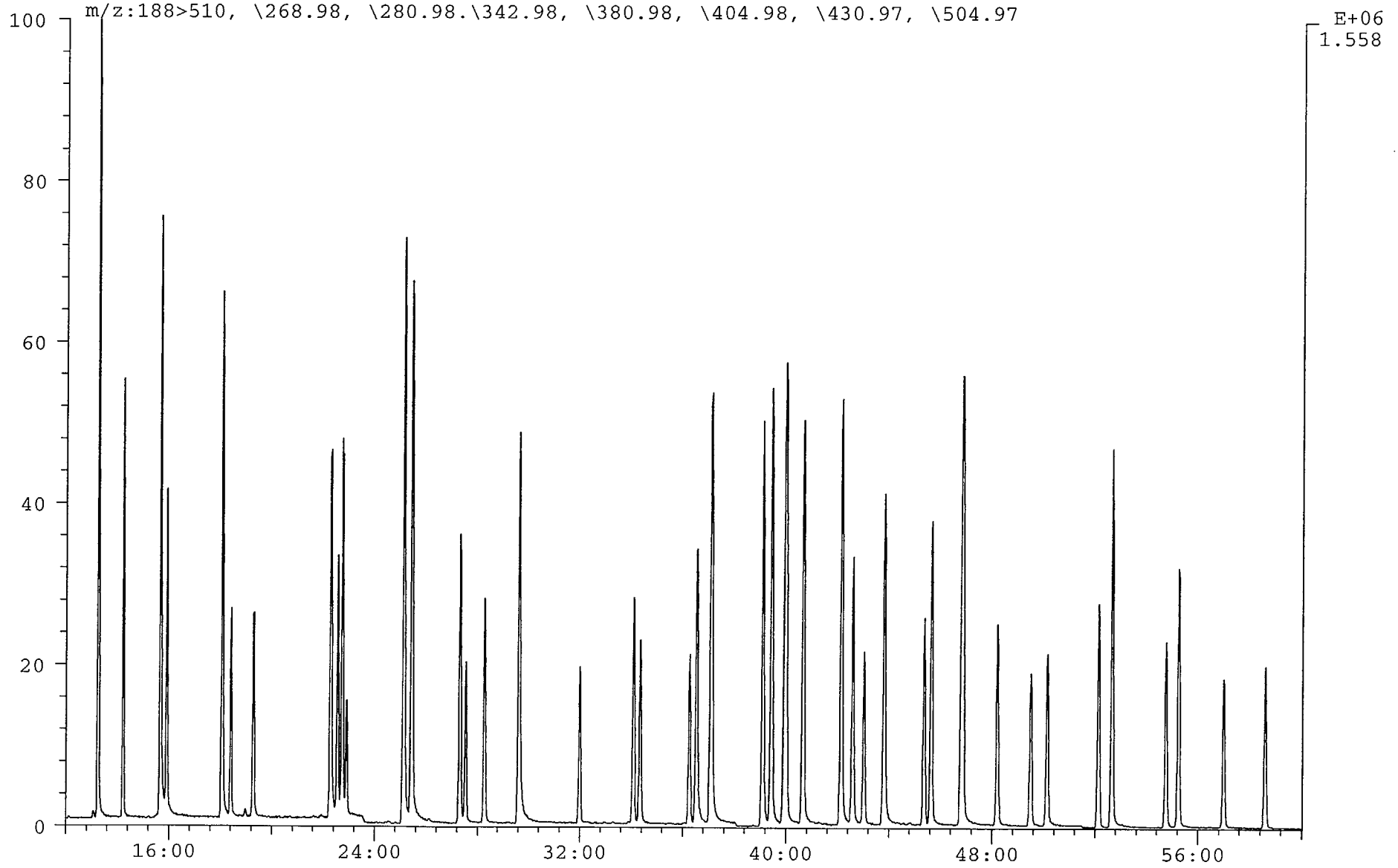
Workorder	H2W5K1AA	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kb.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90286	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 14:54	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79	
	Noise	00:00	00:00	0	85	93	34	37	0.92 *	/
	13C12-PCB 209	58:34	58:34	0	580602	830136	102973	148149	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

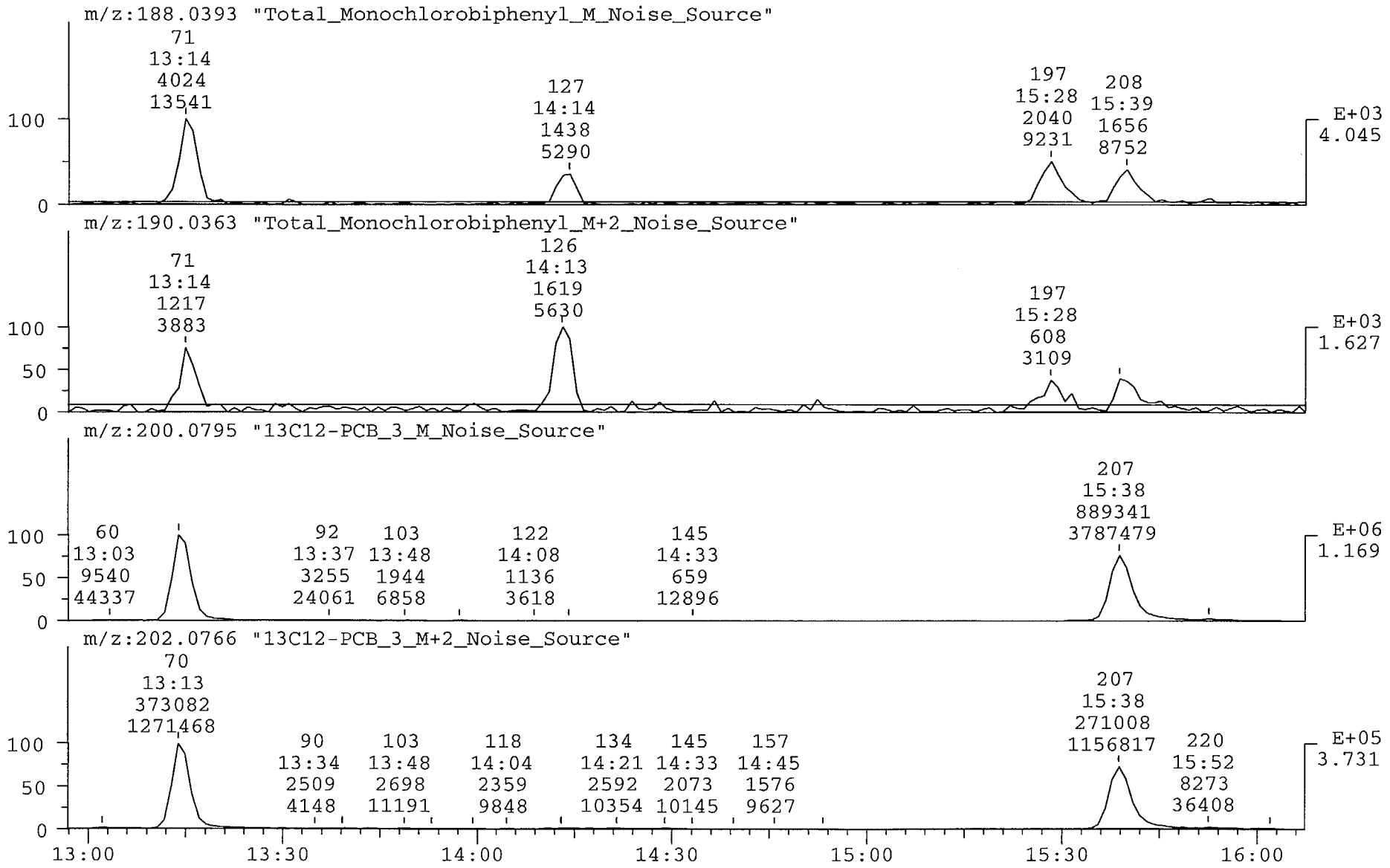
```
CHRO:  aph2w5kb                                  25-Apr-06   Elapse:  12:00.8        1
Samp:  Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1                    Start :  14:54:52    2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050B                 Inlet :  GC     Vial  55
Peak:  100.00  ppm     Label wndw:   2 > 2715                Masses:  181 > 510
Area:  5, 0.50, 0      Baseline  :   100, 3                  Label :  0, 0.0
Disp:  Height  Area
```

I-2DC3 4.260C
Calc BFW 4/26/06
QC VMK 4/26/06
REVDCS 4/27/06

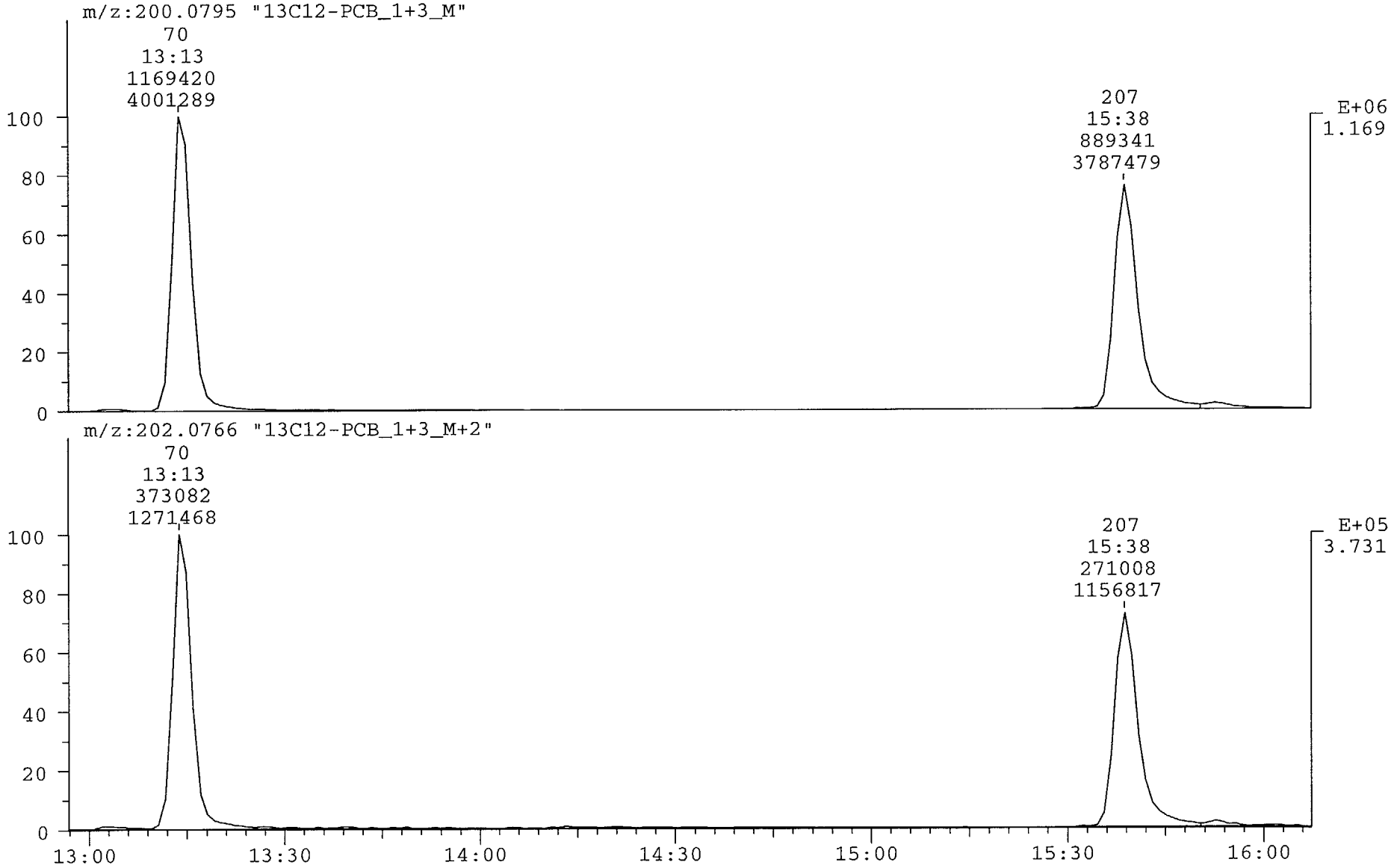


3162

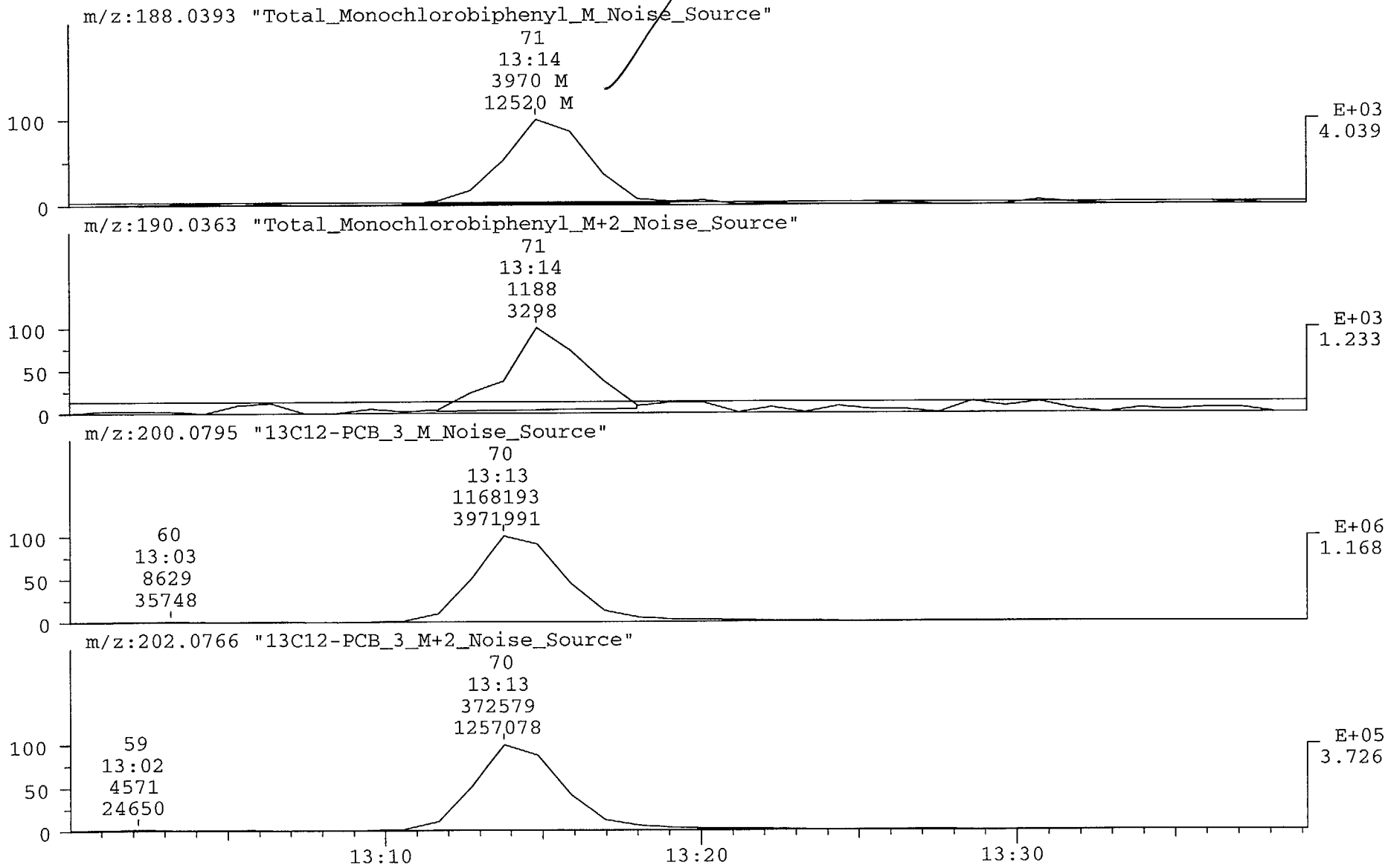
CHRO: aph2w5kb 25-Apr-06 Elapse: 14:32.0 144
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 54 > 234 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



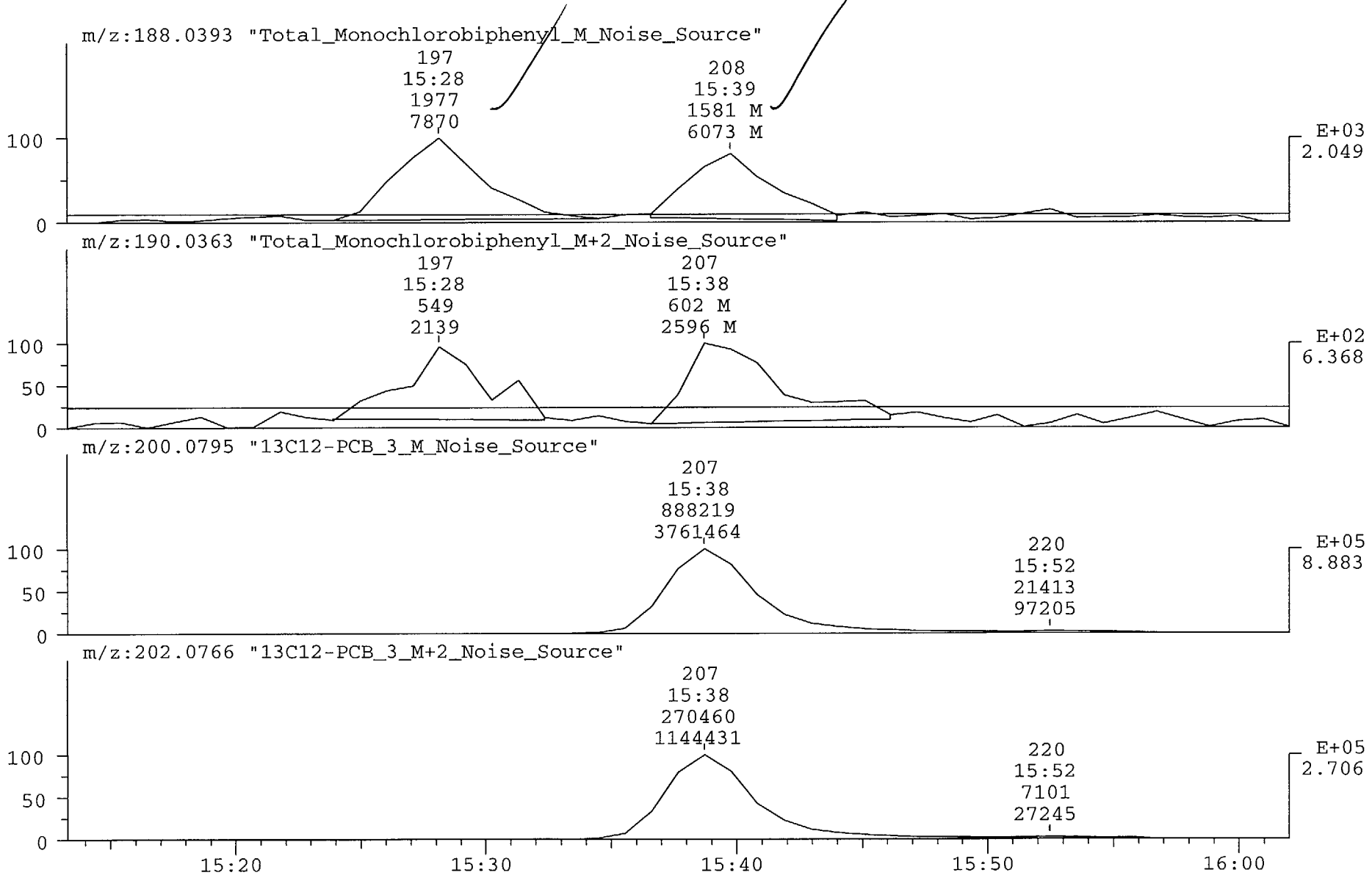
CHRO: aph2w5kb 25-Apr-06 Elapse: 14:32.0 144
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 54 > 234 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



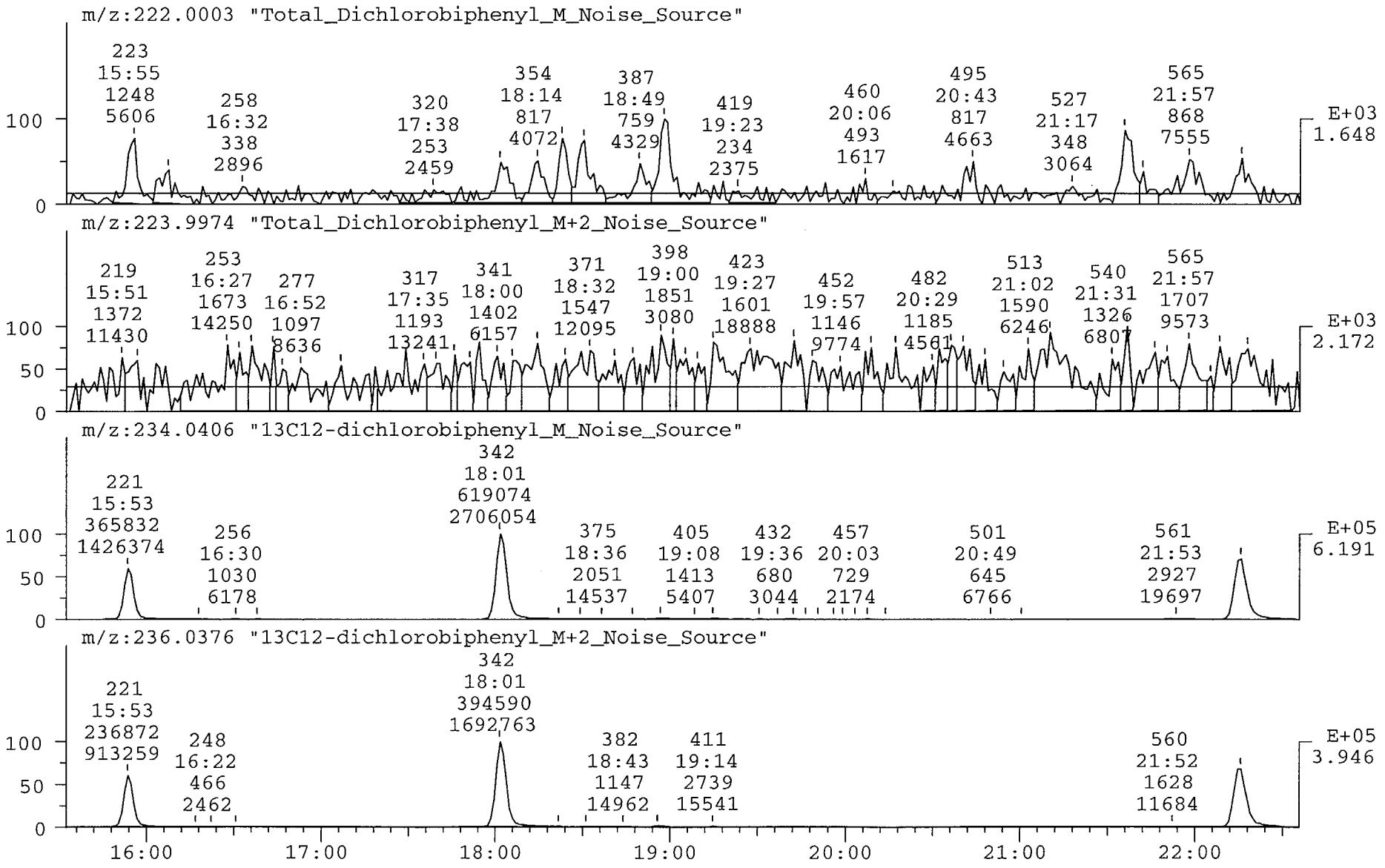
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 57 > 94 Masses: 181 > 510
Area: 5, 2.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



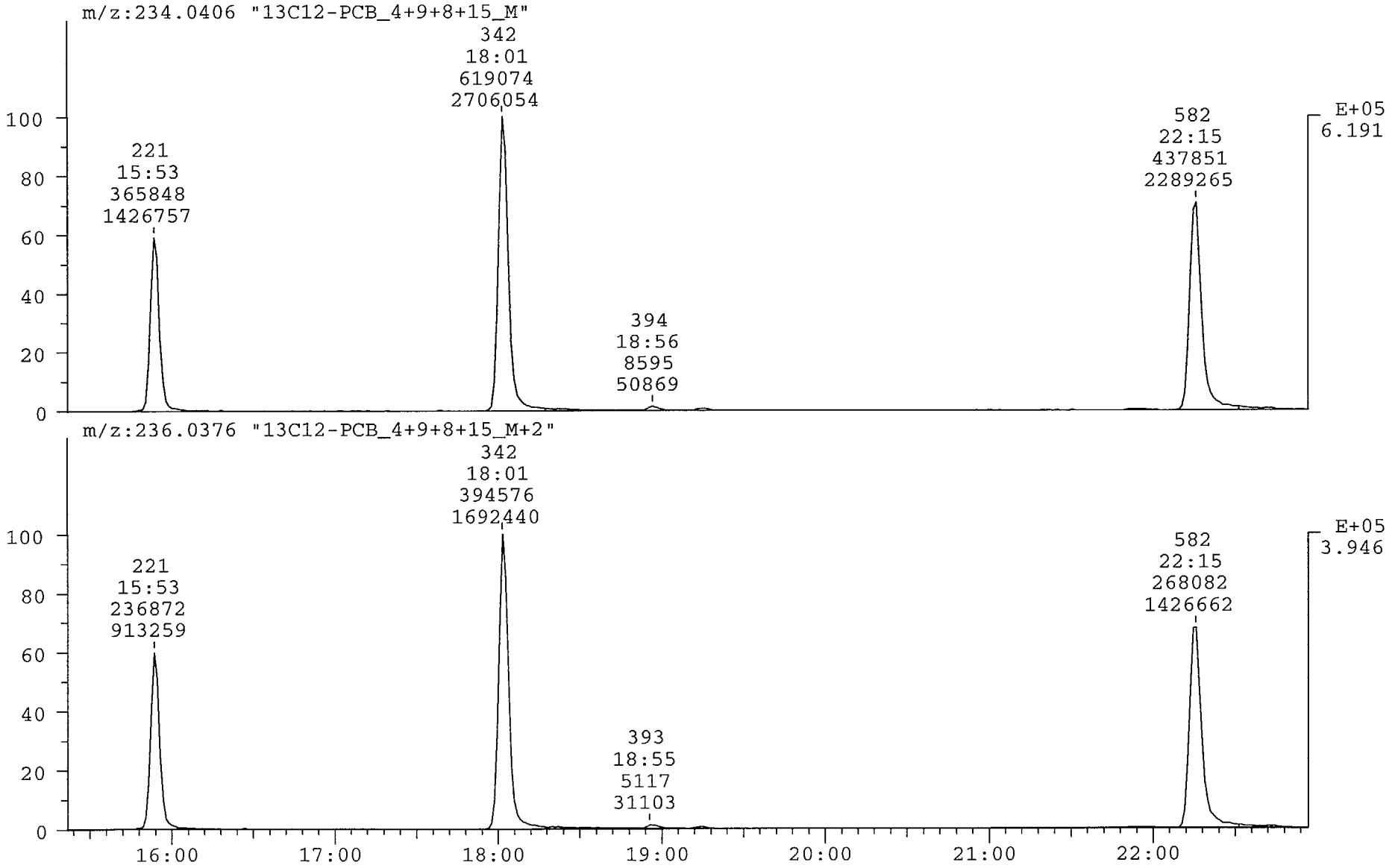
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 183 > 229 Masses: 181 > 510
Area: 5, 2.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



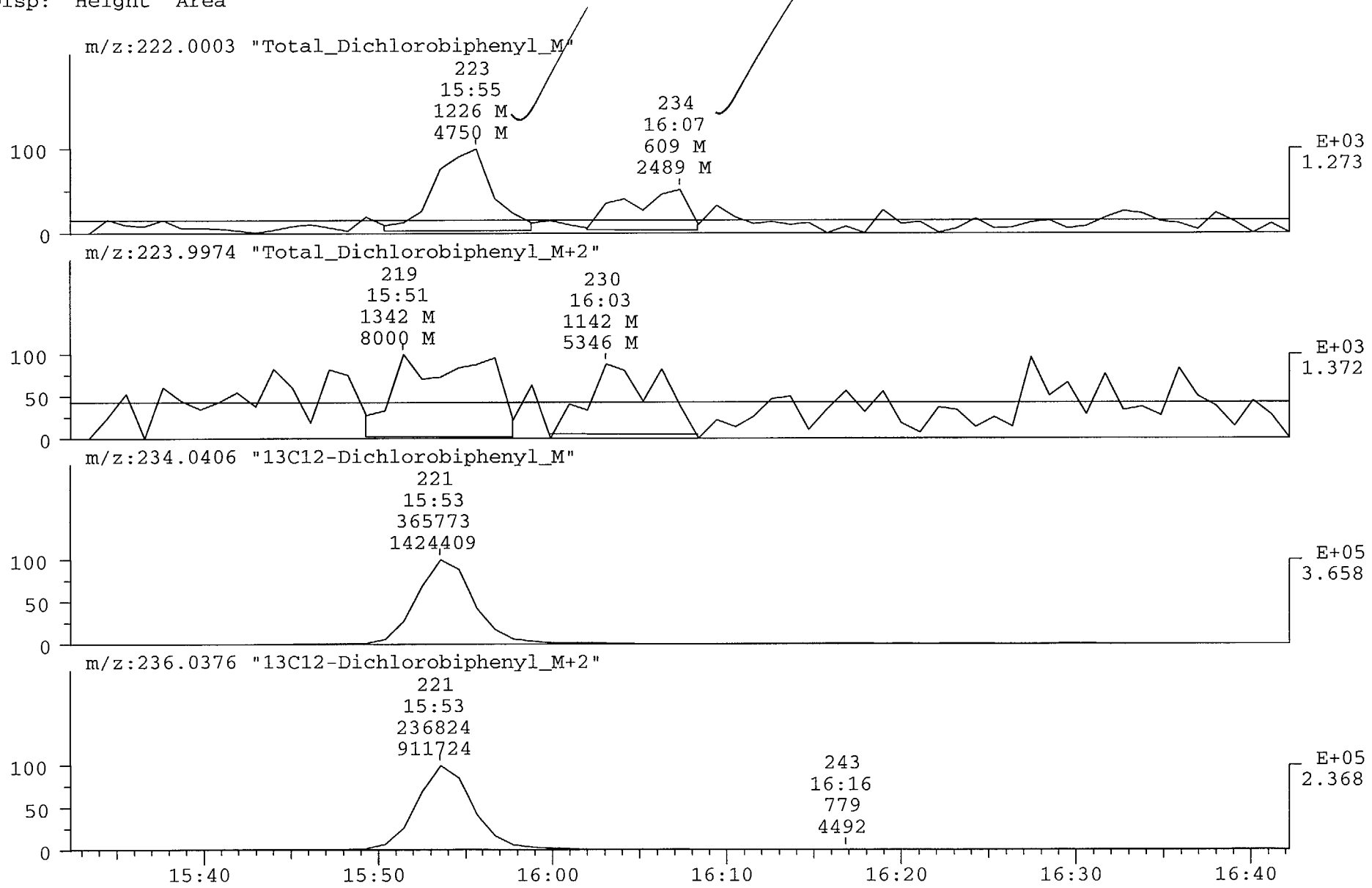
CHRO: aph2w5kb 25-Apr-06 Elapse: 19:04.9 401
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 201 > 601 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



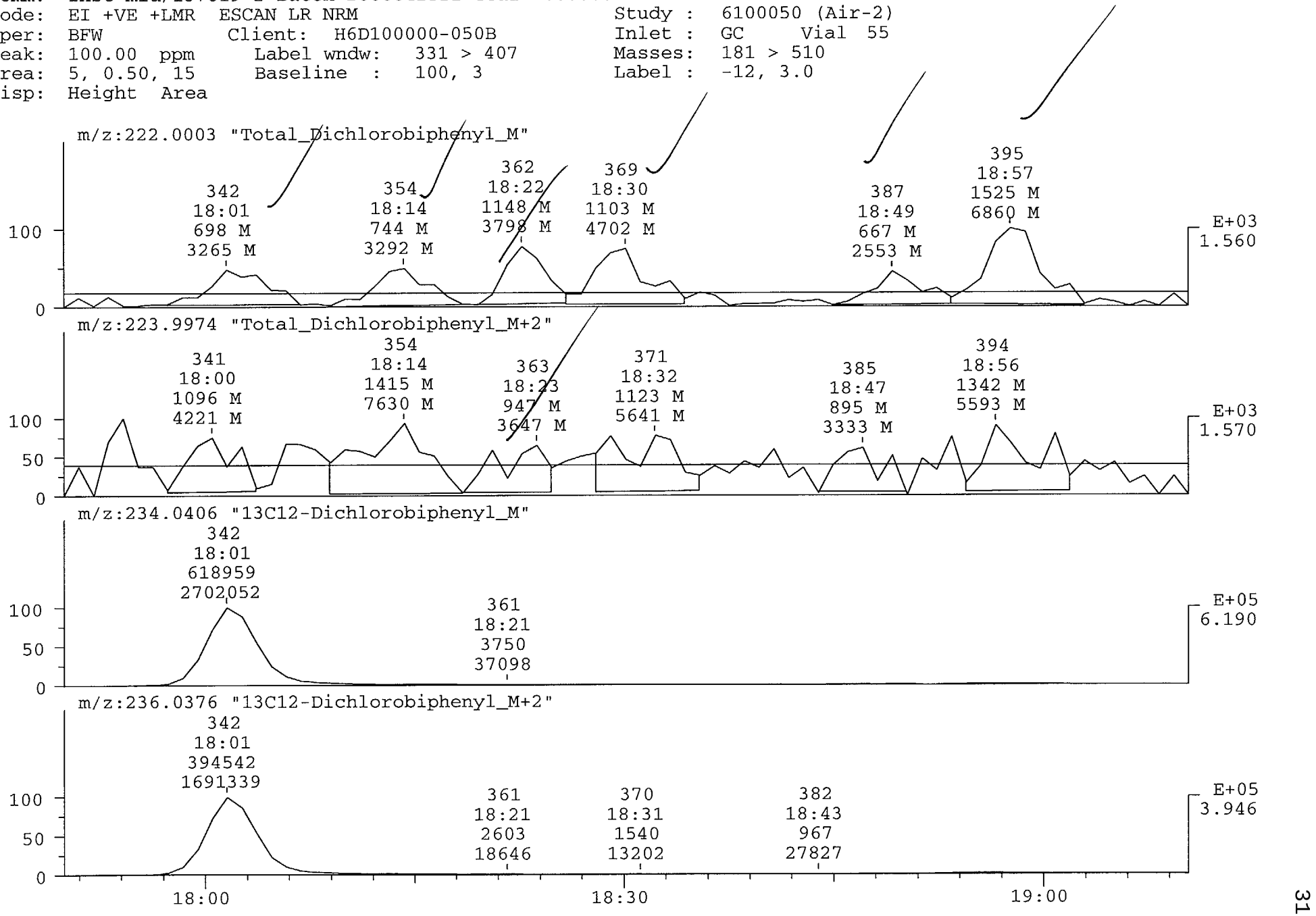
CHRO: aph2w5kb 25-Apr-06 Elapse: 19:04.9 401
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 191 > 621 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



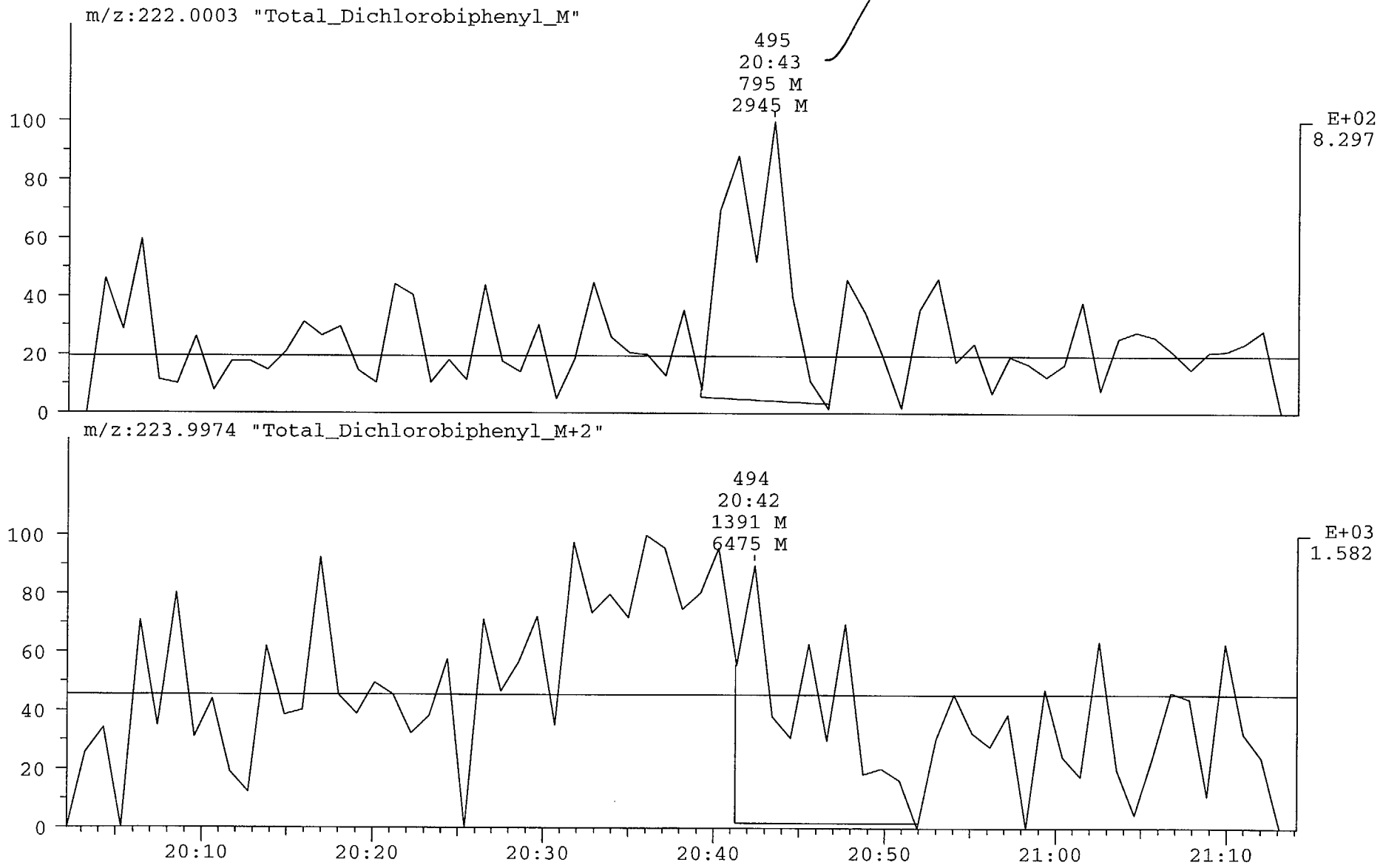
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 201 > 267 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -5, 3.0
Disp: Height Area



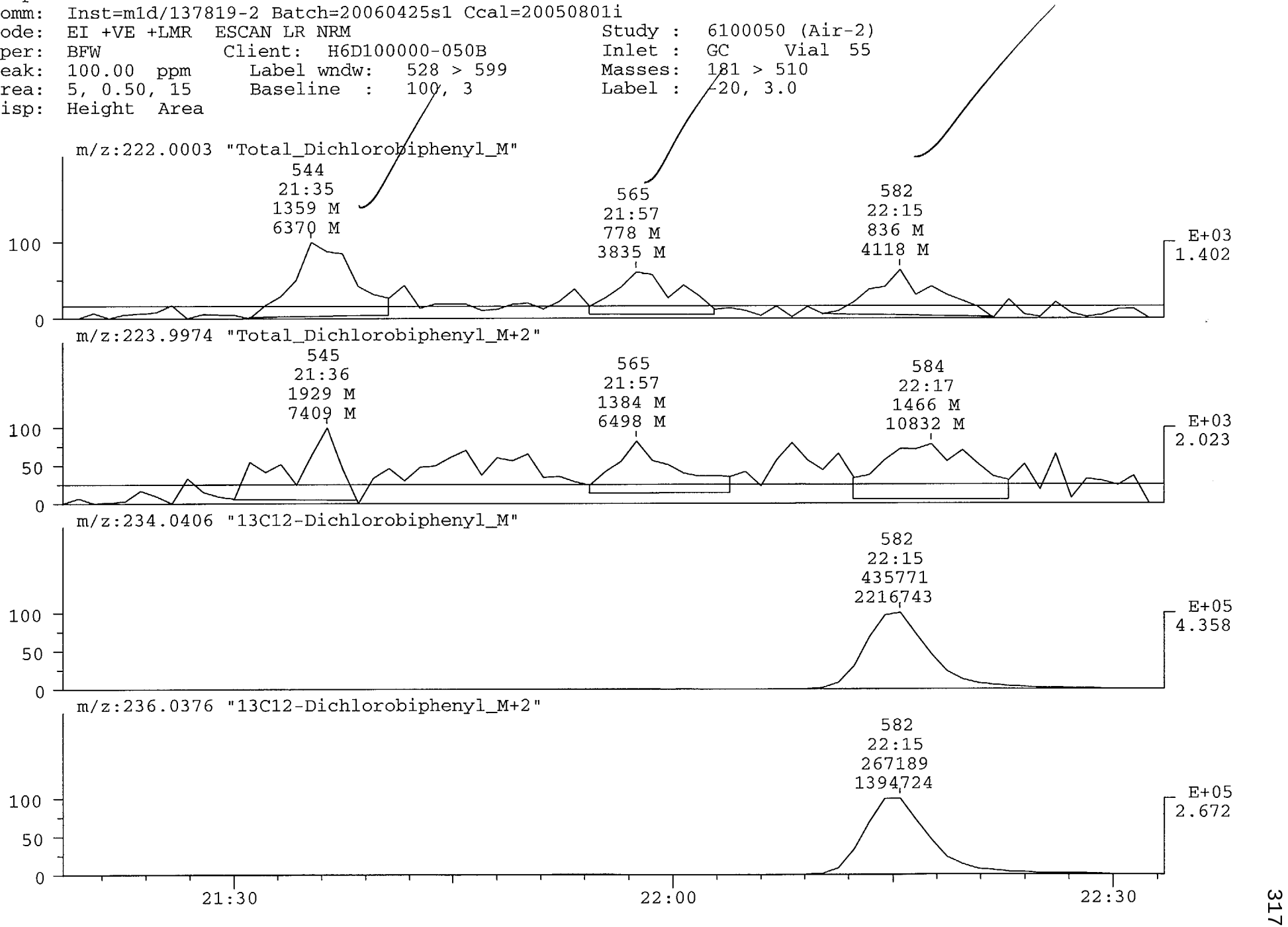
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 331 > 407 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -12, 3.0
Disp: Height Area



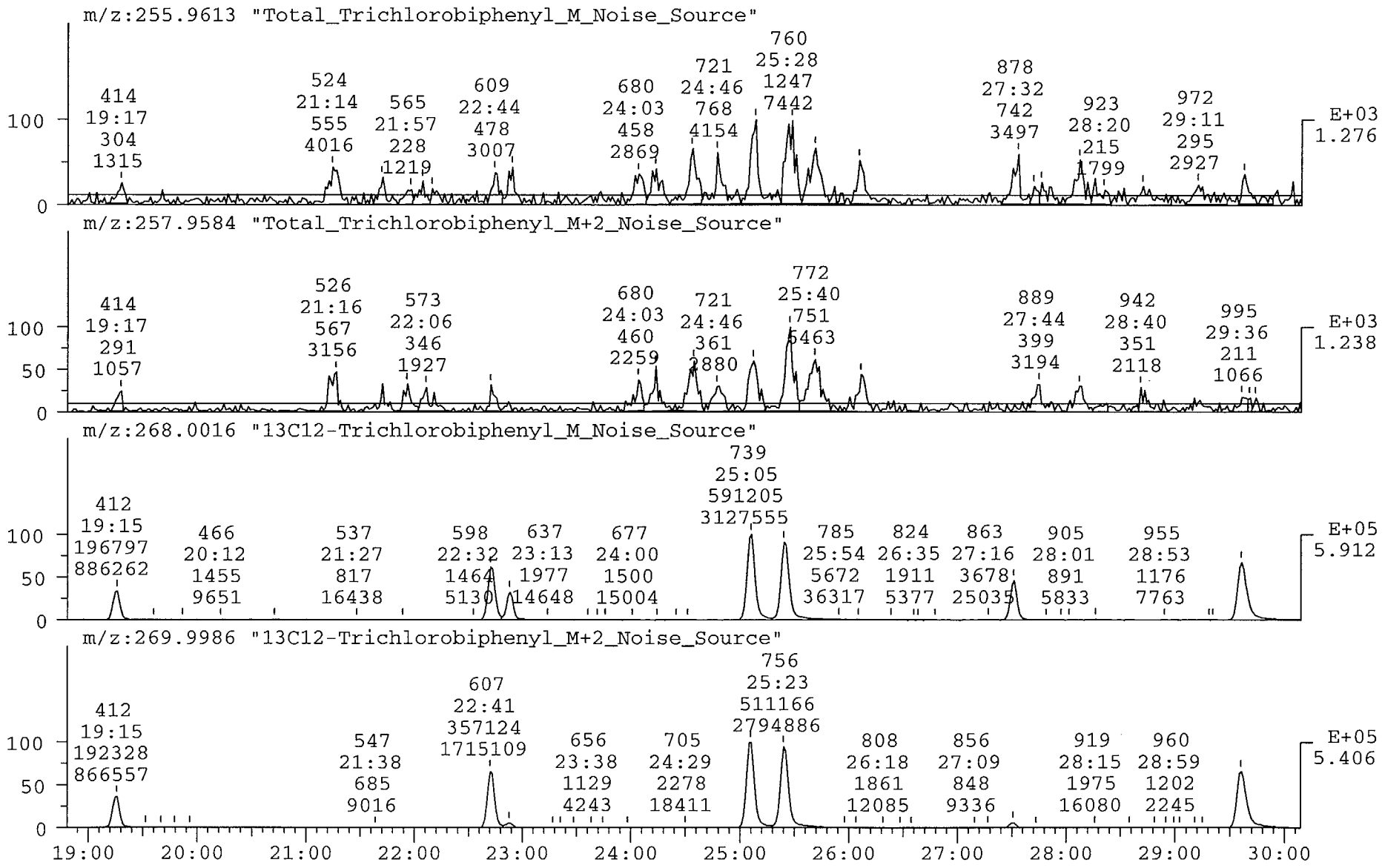
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 456 > 524 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -20, 3.0
Disp: Height Area



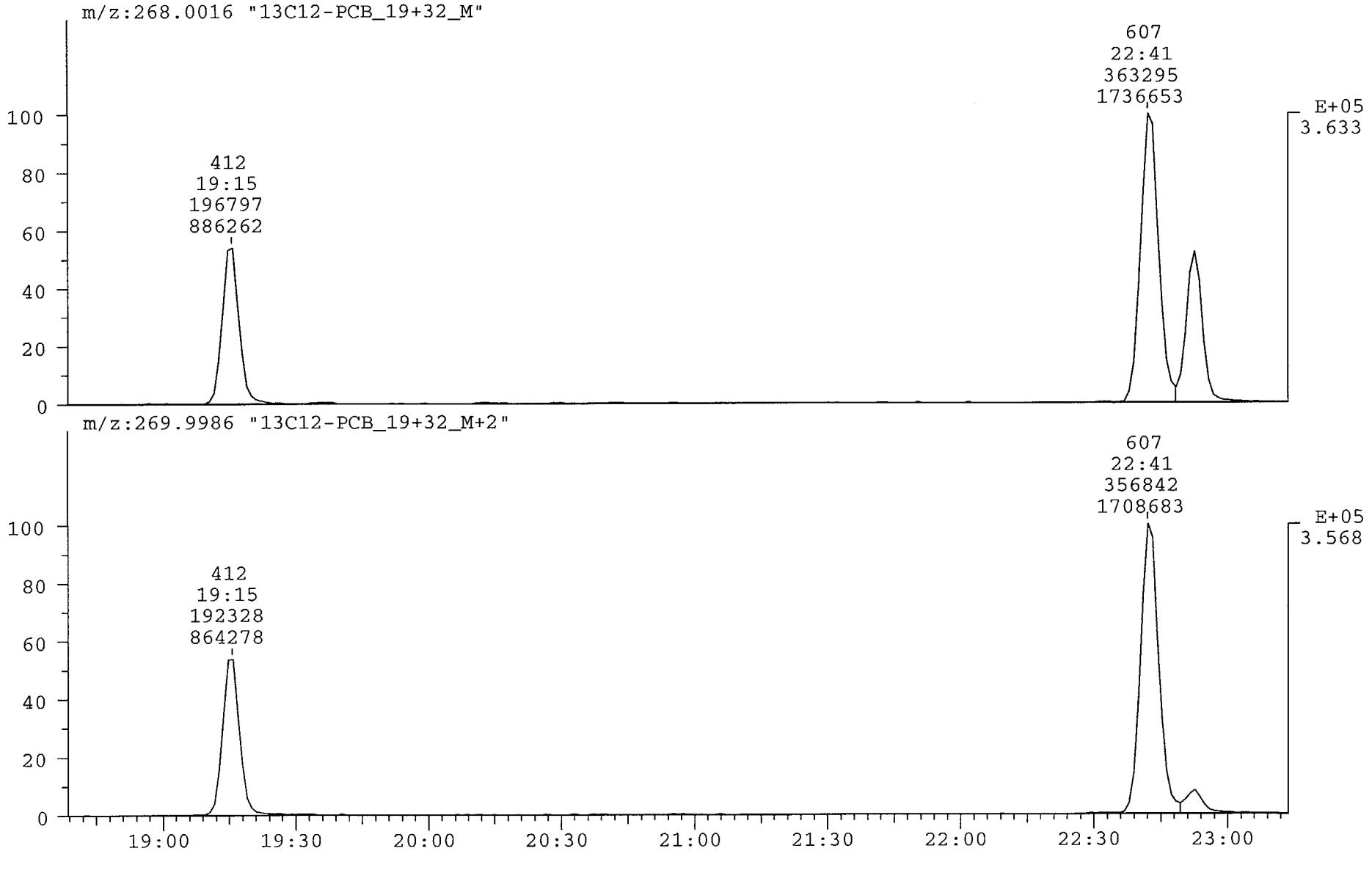
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 528 > 599 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 20, 3.0
Disp: Height Area



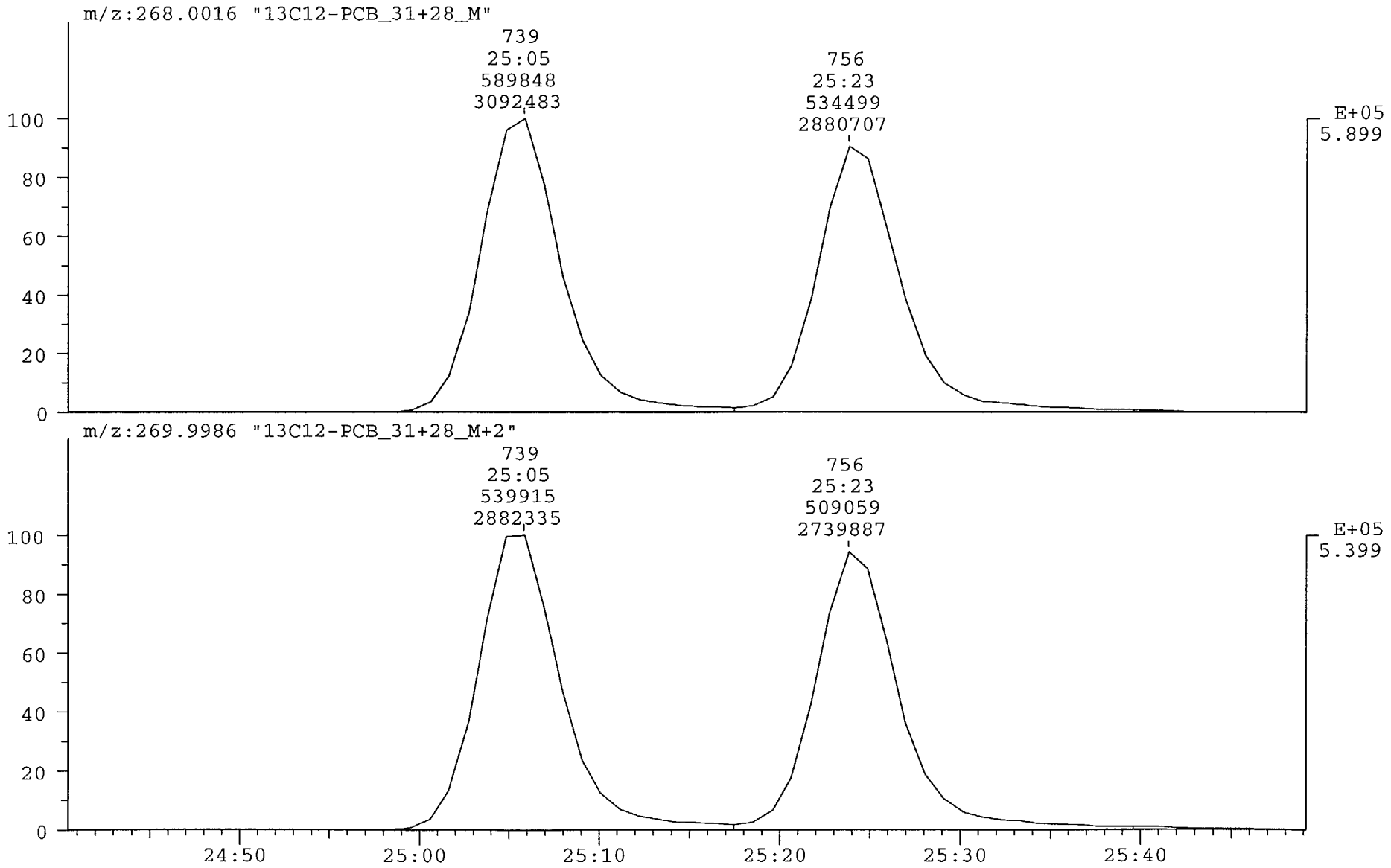
CHRO: aph2w5kb 25-Apr-06 Elapse: 24:31.9 706
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 386 > 1026 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



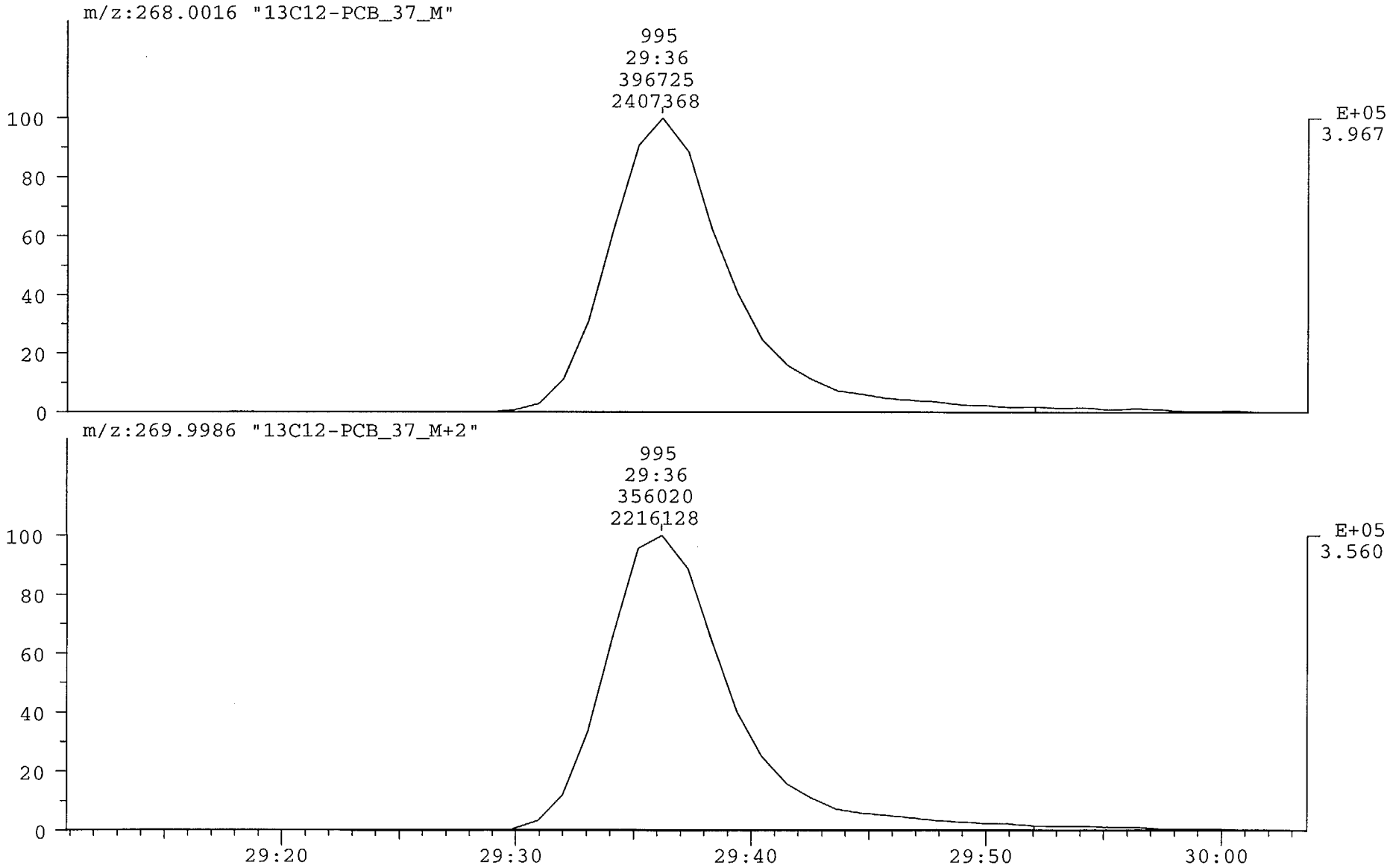
CHRO: aph2w5kb 25-Apr-06 Elapse: 20:45.5 497
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 377 > 637 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

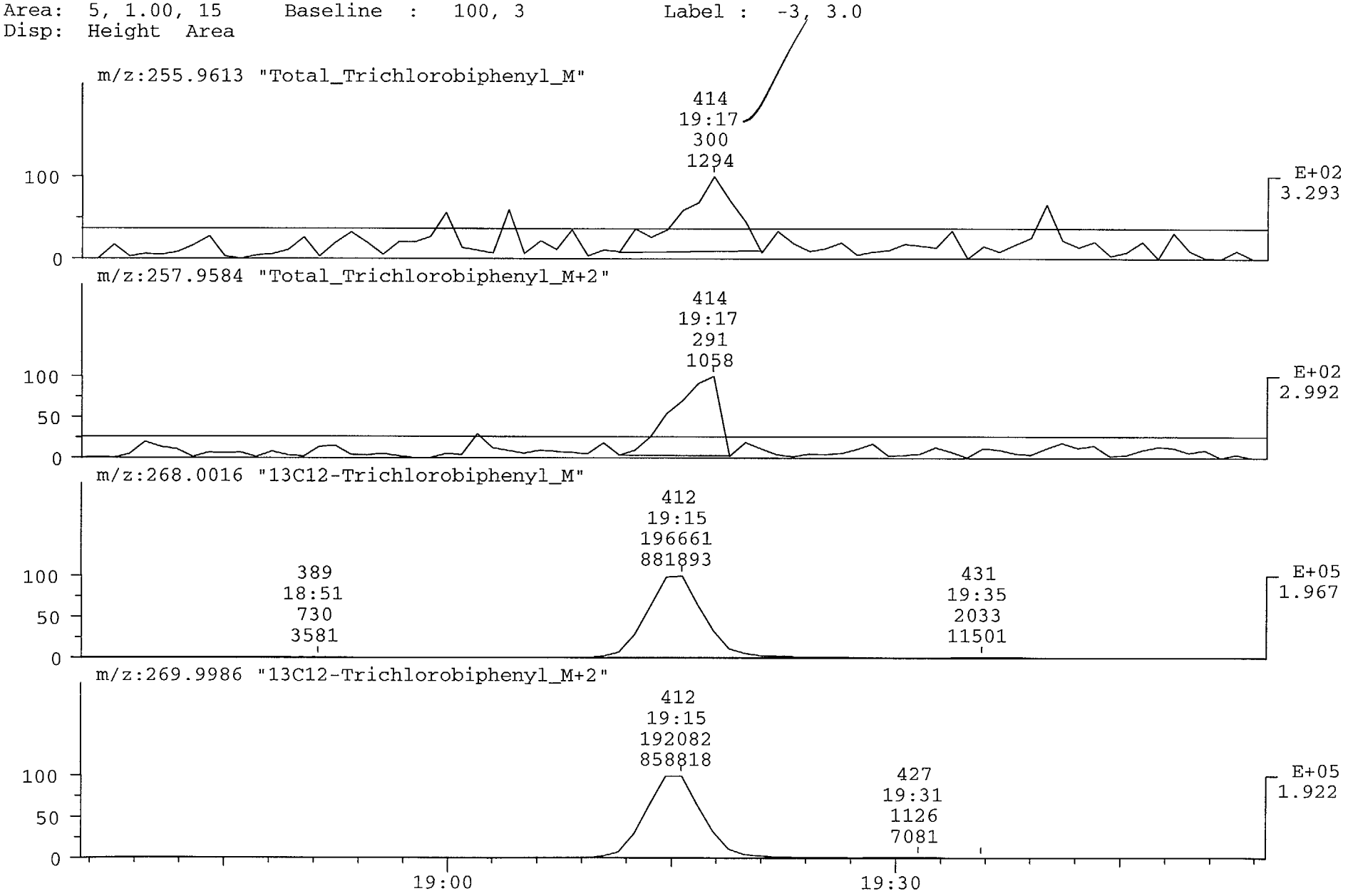


CHRO: aph2w5kb 25-Apr-06 Elapse: 25:06.9 740
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 715 > 780 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

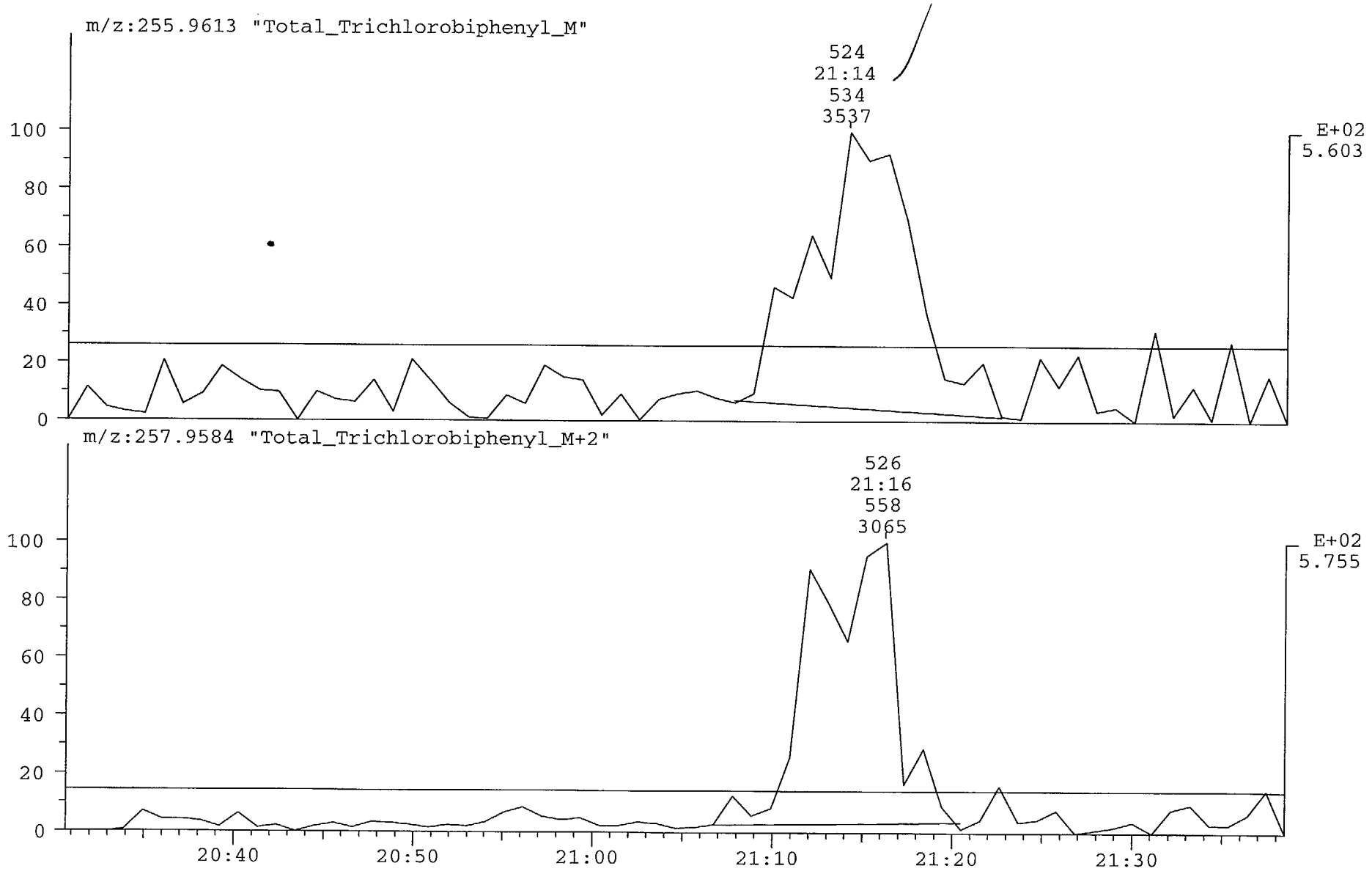


CHRO: aph2w5kb 25-Apr-06 Elapse: 29:37.3 996
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 971 > 1021 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

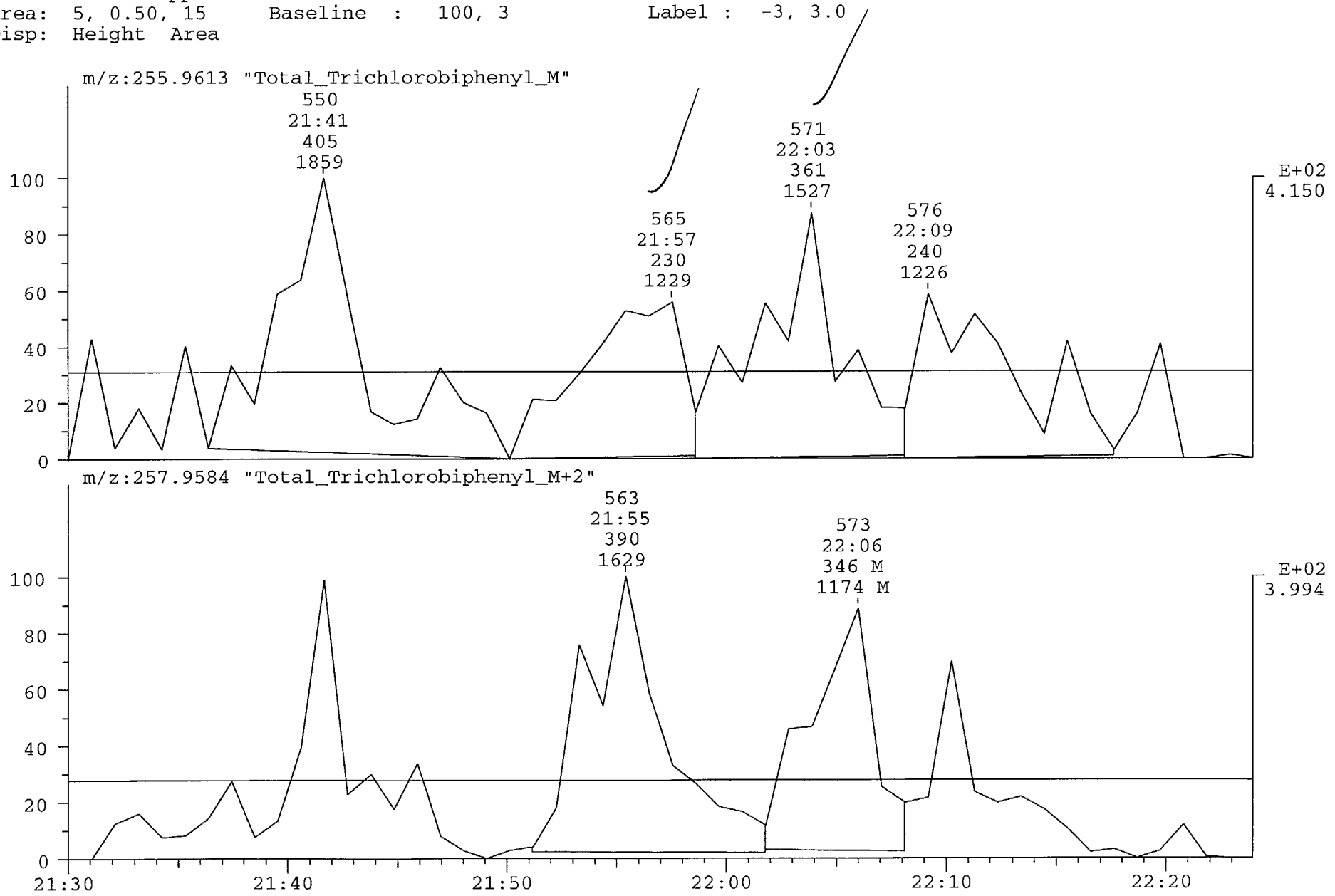



CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 374 > 449 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area
m/z:255.9613 "Total_Trichlorobiphenyl_M"
414
19:17
300
1294
E+02
3.293
m/z:257.9584 "Total_Trichlorobiphenyl_M+2"
414
19:17
291
1058
E+02
2.992
m/z:268.0016 "13C12-Trichlorobiphenyl_M"
412
19:15
196661
881893
389
18:51
730
3581
431
19:35
2033
11501
E+05
1.967
m/z:269.9986 "13C12-Trichlorobiphenyl_M+2"
412
19:15
192082
858818
427
19:31
1126
7081
E+05
1.922
100
50
0
19:00
19:30

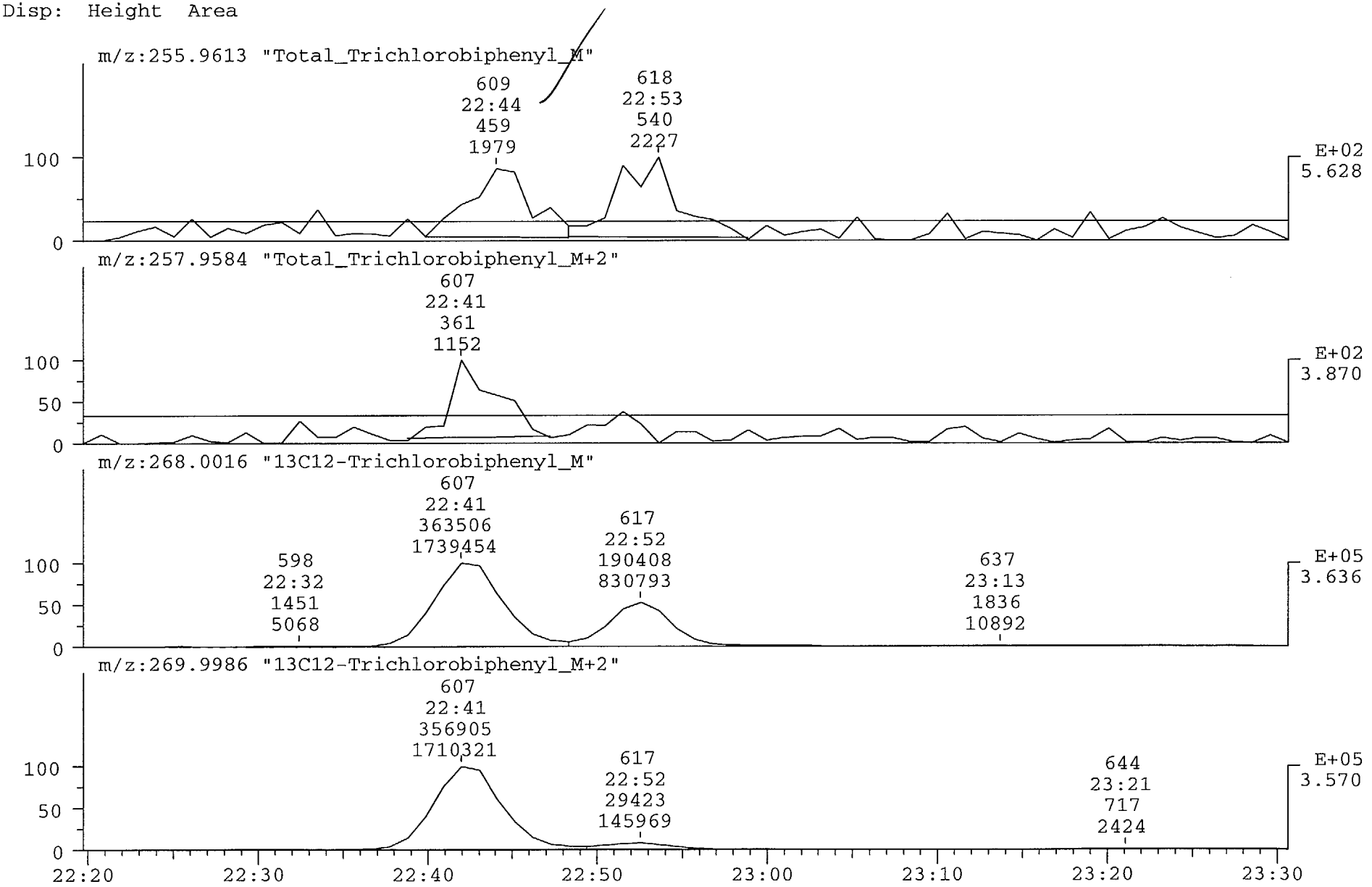
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 483 > 547 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

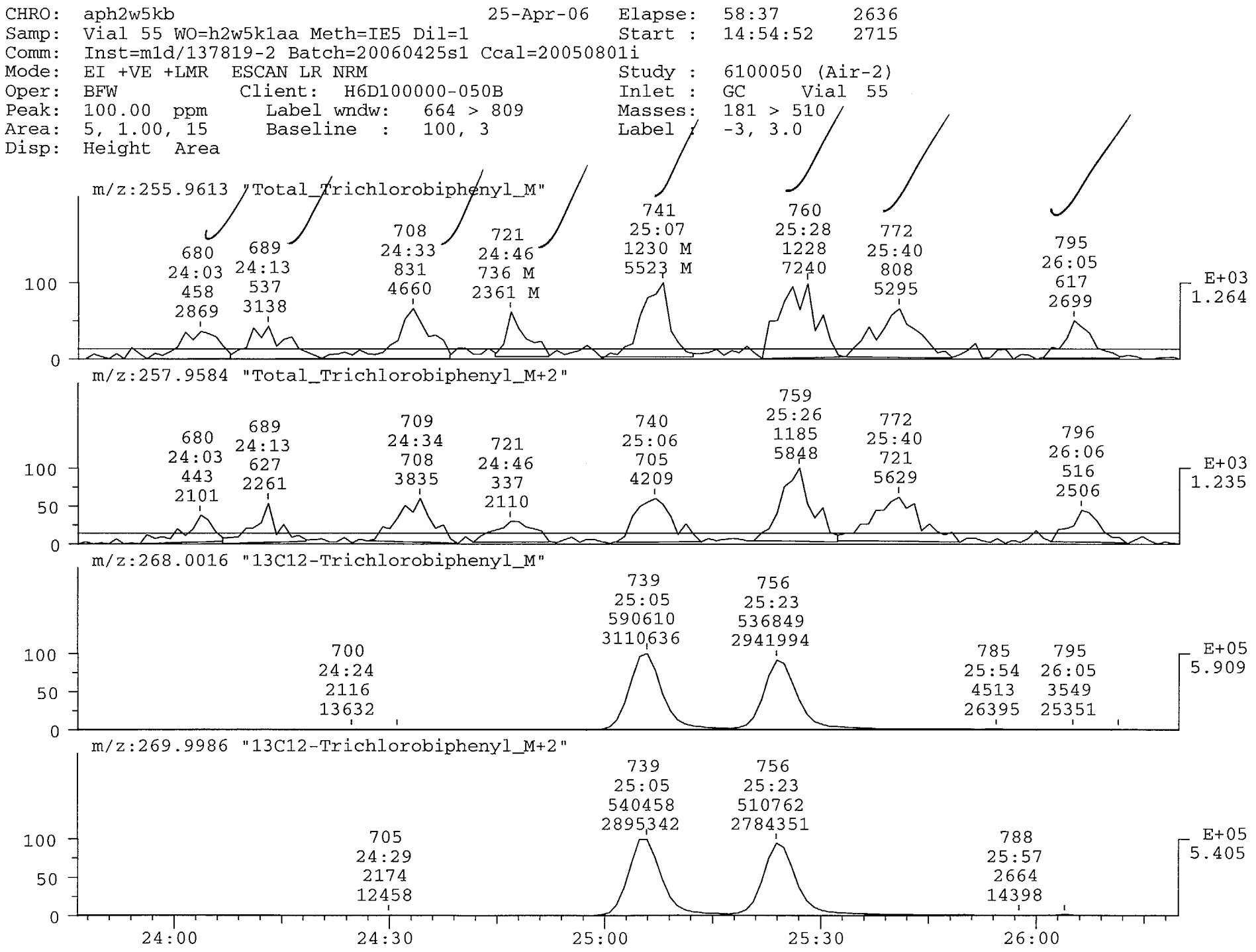


CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 539 > 590 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

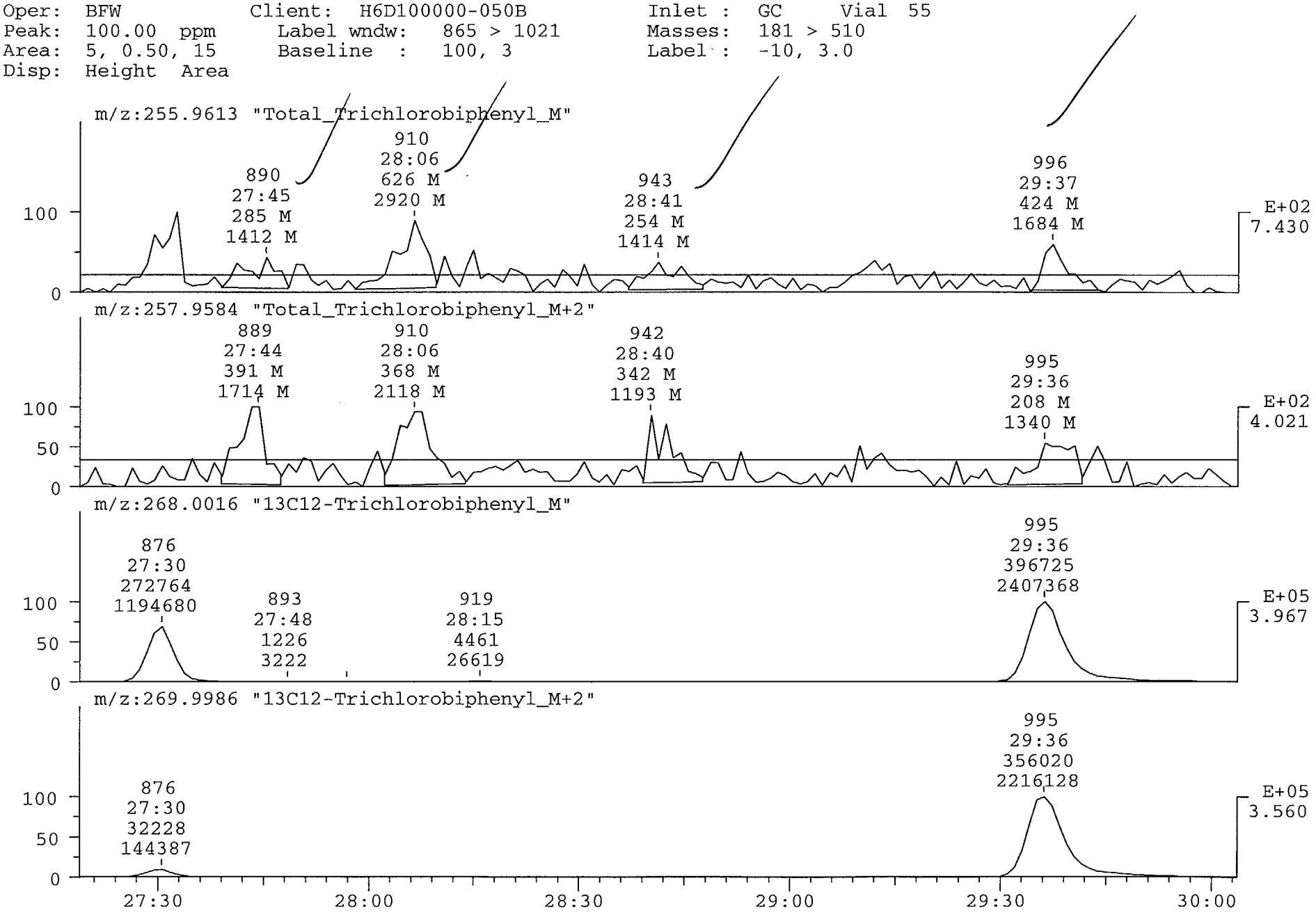


CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 586 > 653 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

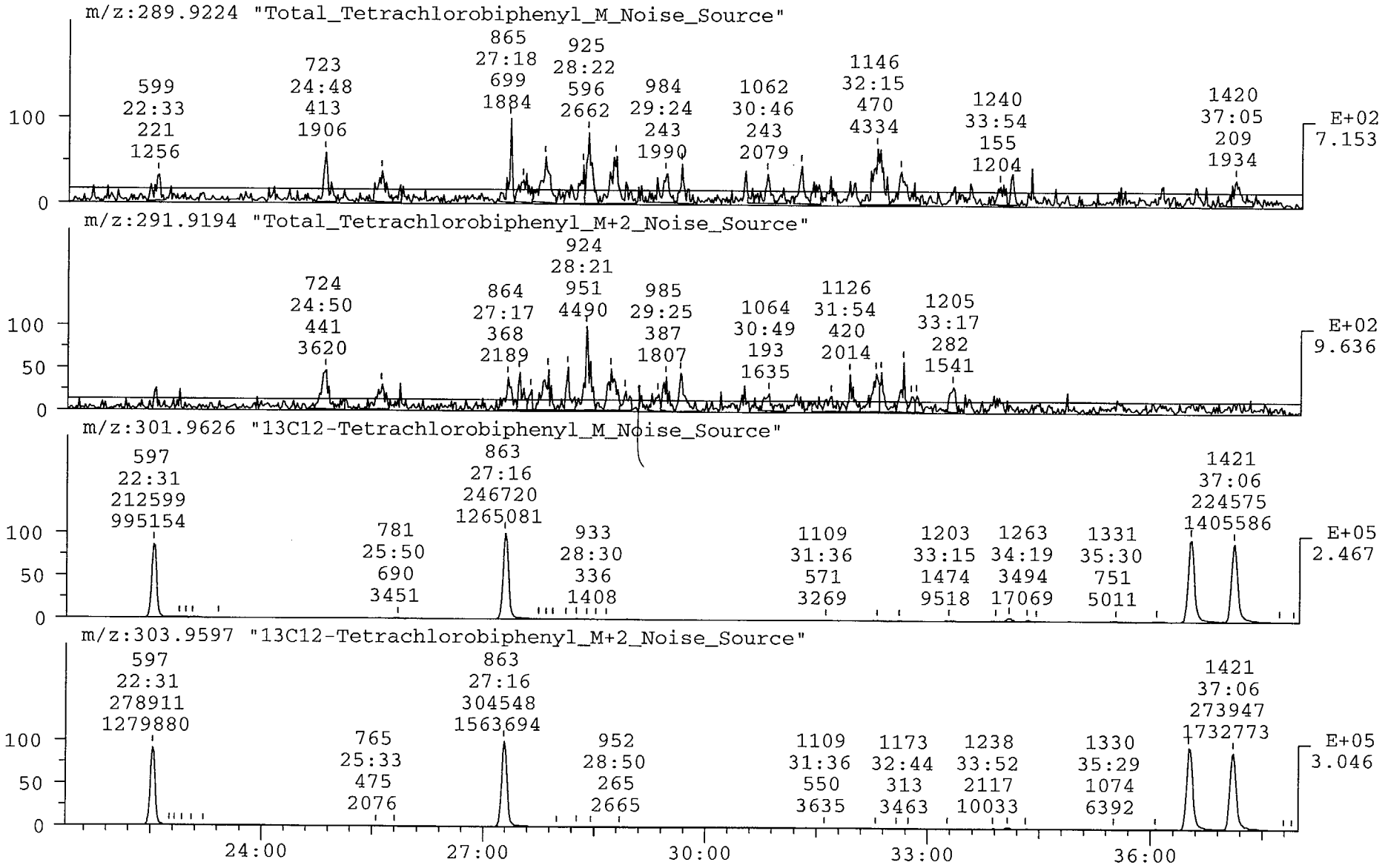



CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 664 > 809 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area
m/z:255.9613 "Total_Trichlorobiphenyl_M"
680 24:03 458 2869
689 24:13 537 3138
708 24:33 831 4660
721 24:46 736 M 2361 M
741 25:07 1230 M 5523 M
760 25:28 1228 7240
772 25:40 808 5295
795 26:05 617 2699
E+03 1.264
m/z:257.9584 "Total_Trichlorobiphenyl_M+2"
680 24:03 443 2101
689 24:13 627 2261
709 24:34 708 3835
721 24:46 337 2110
740 25:06 705 4209
759 25:26 1185 5848
772 25:40 721 5629
796 26:06 516 2506
E+03 1.235
m/z:268.0016 "13C12-Trichlorobiphenyl_M"
700 24:24 2116 13632
739 25:05 590610 3110636
756 25:23 536849 2941994
785 25:54 4513 26395
795 26:05 3549 25351
E+05 5.909
m/z:269.9986 "13C12-Trichlorobiphenyl_M+2"
705 24:29 2174 12458
739 25:05 540458 2895342
756 25:23 510762 2784351
788 25:57 2664 14398
E+05 5.405
100
50
0
24:00
24:30
25:00
25:30
26:00

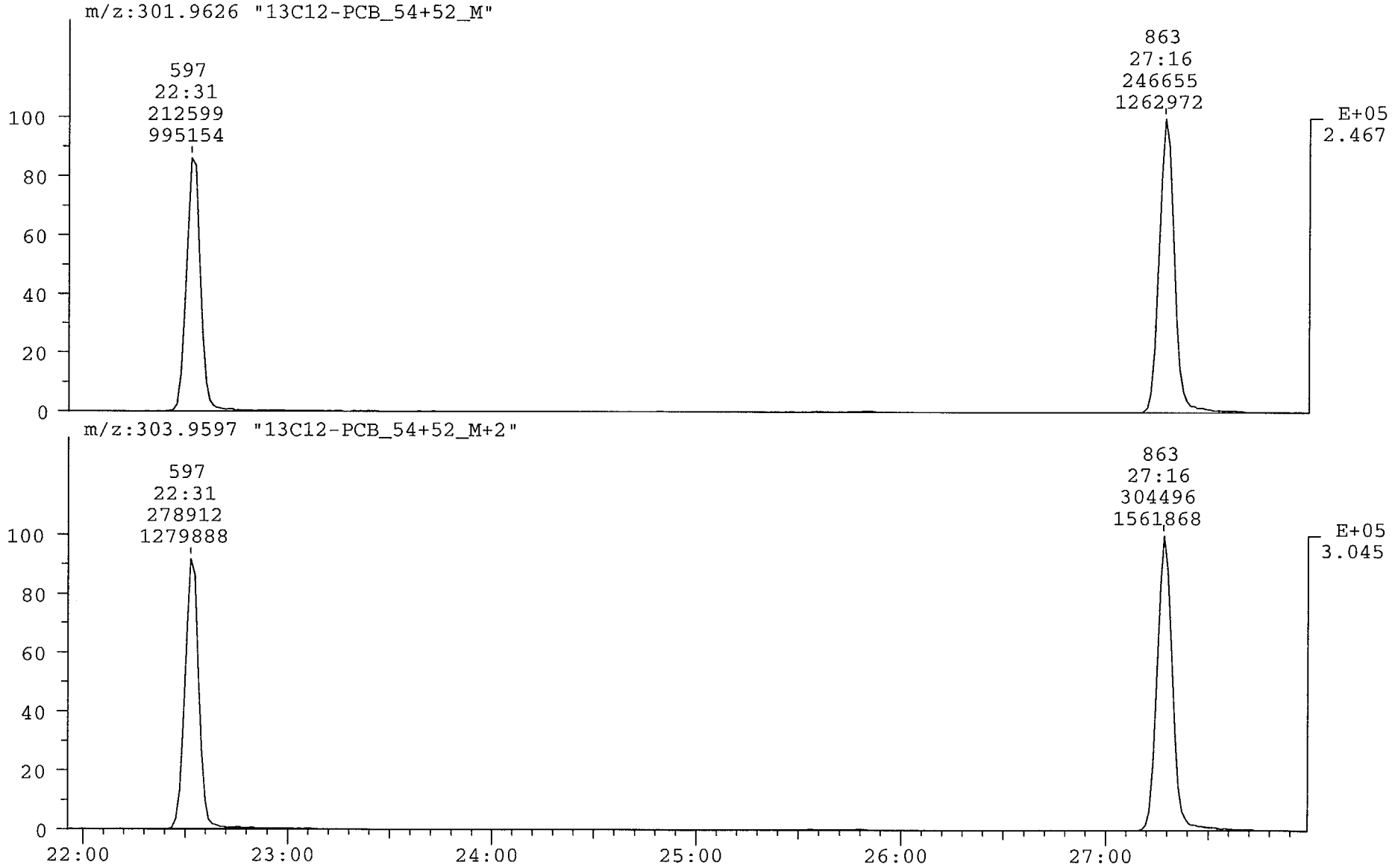
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 865 > 1021 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -10, 3.0
Disp: Height Area



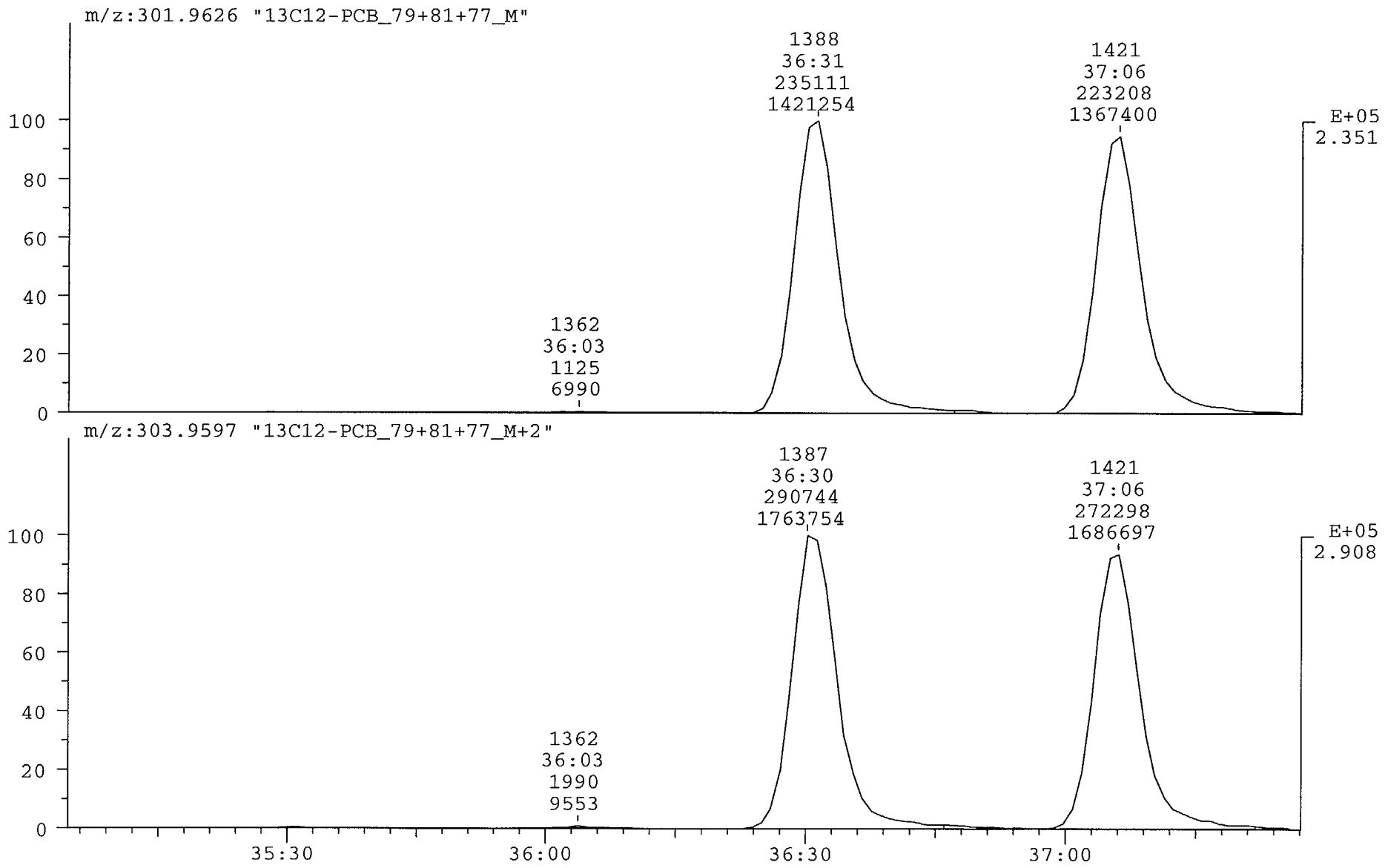
CHRO: aph2w5kb 25-Apr-06 Elapse: 29:40.4 999
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 531 > 1471 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



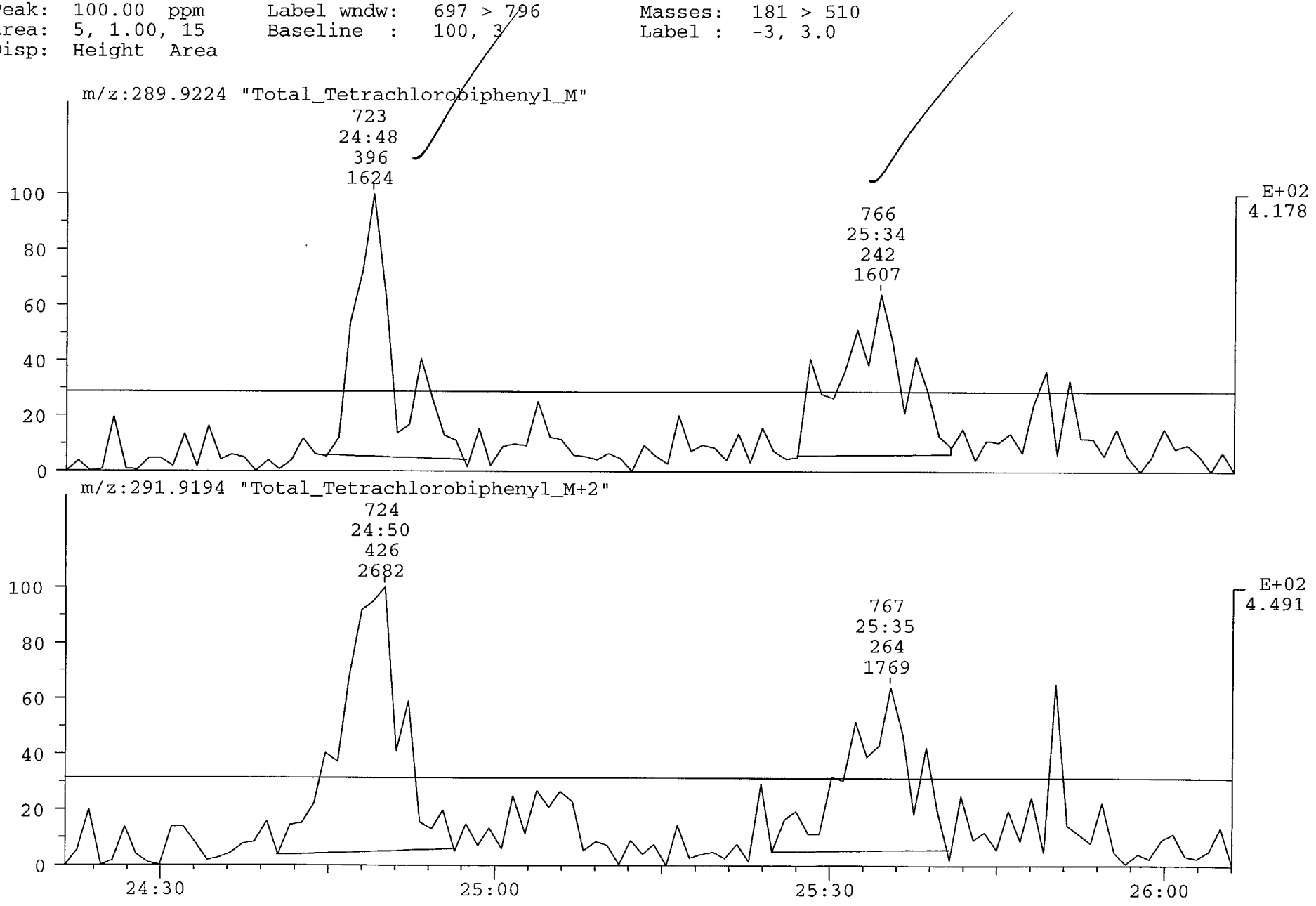
```
CHRO:  aph2w5kb                                25-Apr-06   Elapse:  24:59.5      733
Samp:  Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1                  Start :  14:54:52    2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050B               Inlet :  GC     Vial  55
Peak:  100.00  ppm     Label wndw:   563 > 903             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

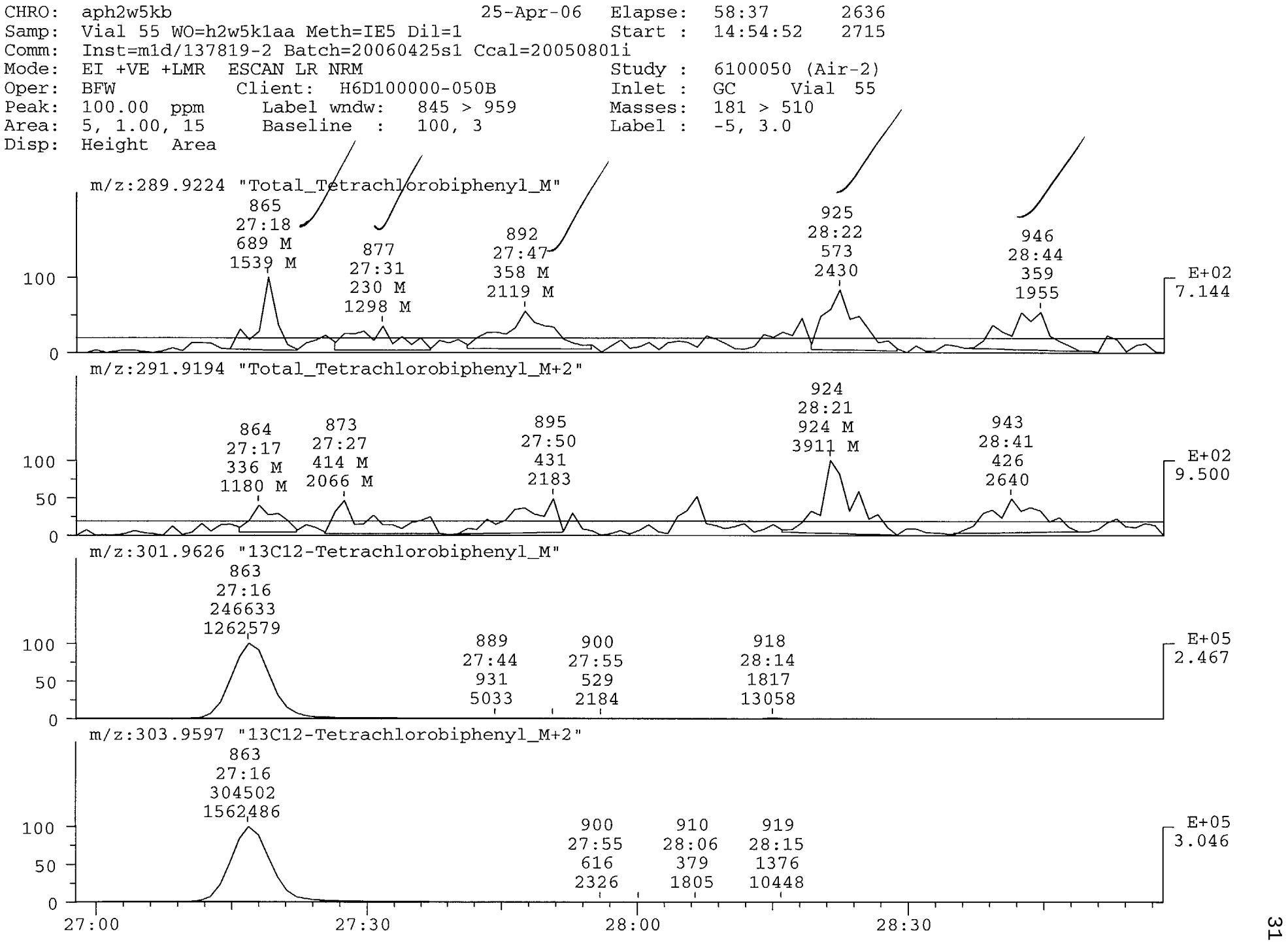


CHRO: aph2w5kb 25-Apr-06 Elapse: 36:18 1376
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1306 > 1441 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

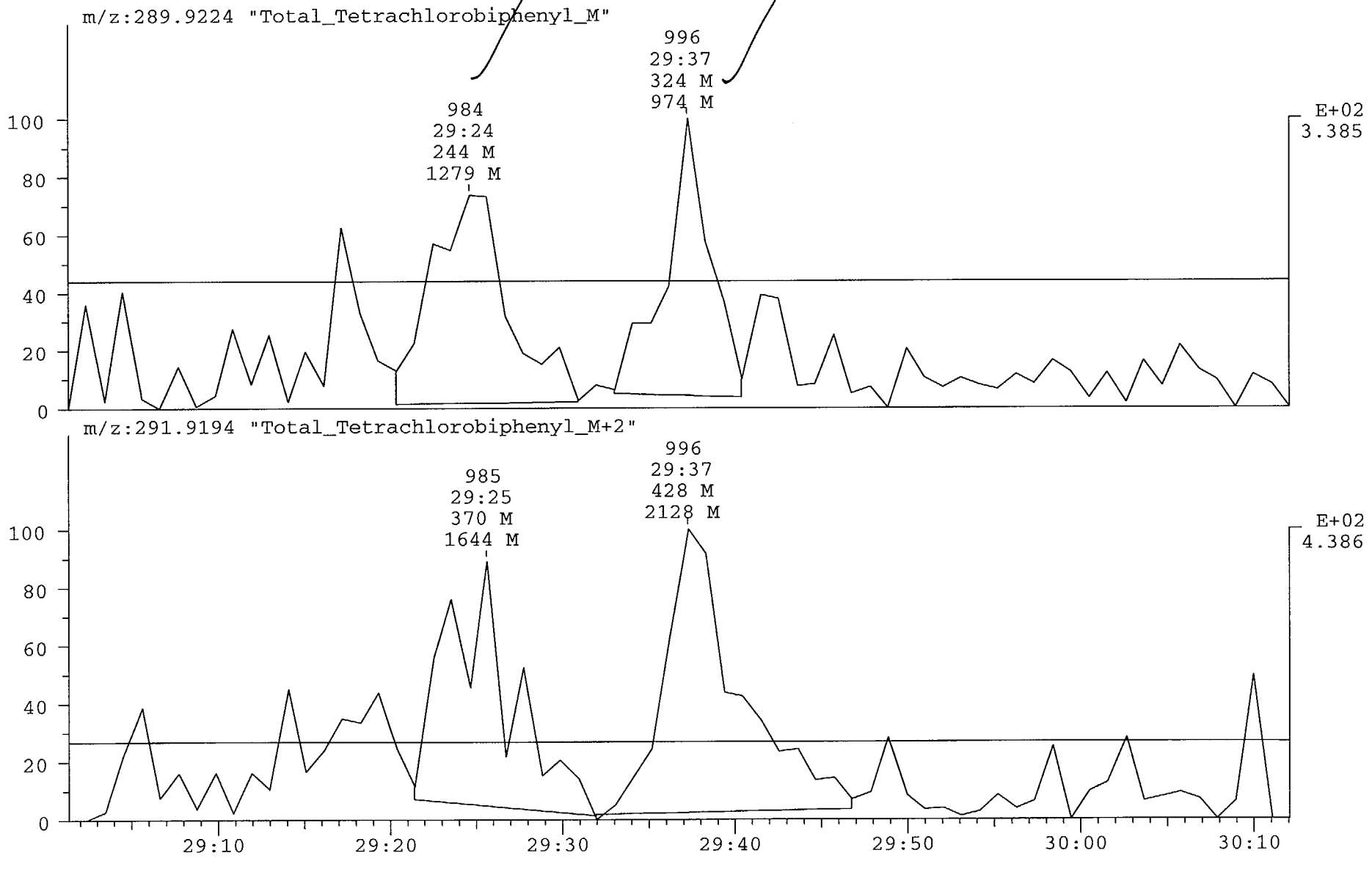


CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 697 > 796 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

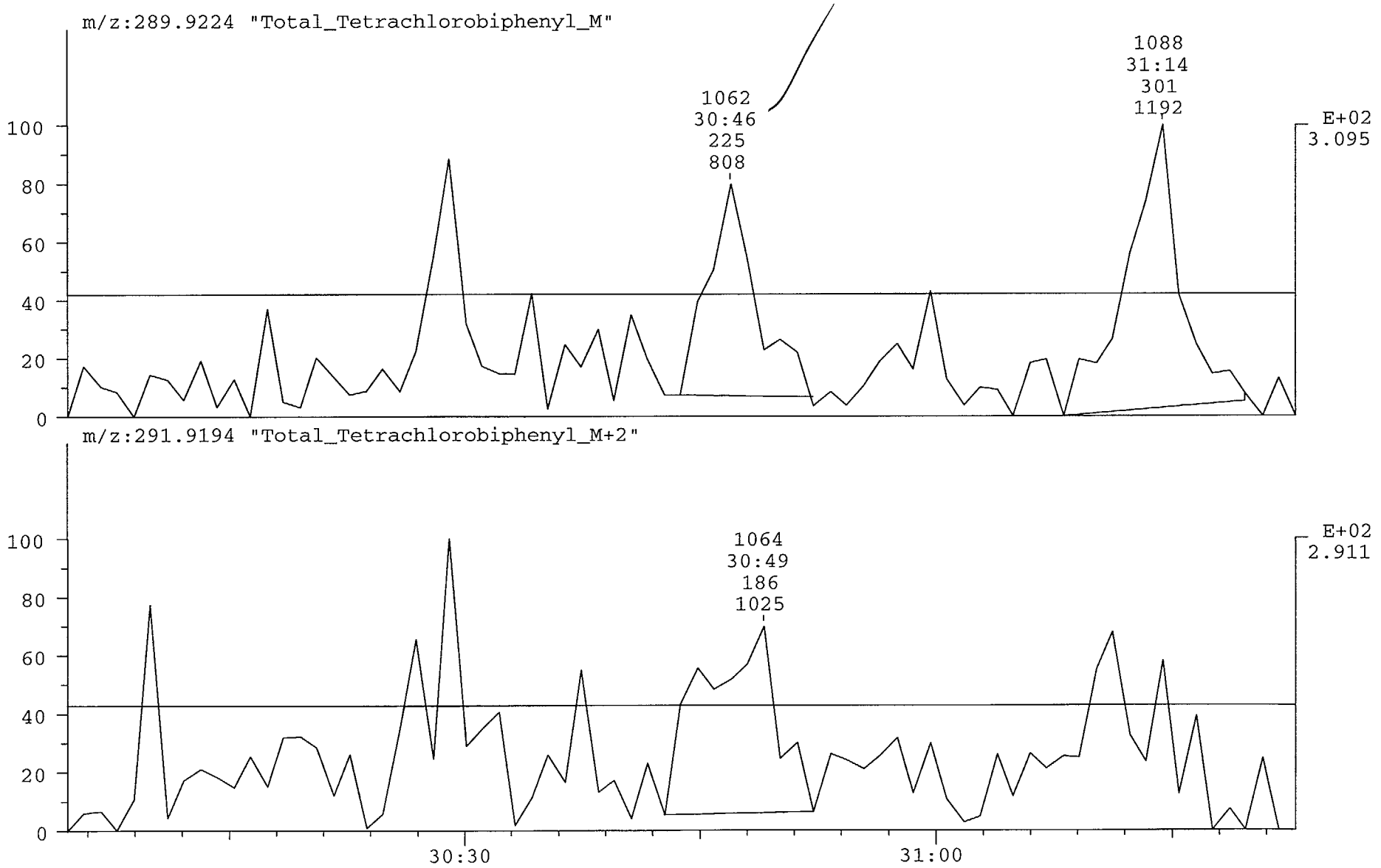



CHRO: aph2w5kb 25-Apr-06 Elapse: 58:37 2636
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 845 > 959 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -5, 3.0
Disp: Height Area
m/z:289.9224 "Total_Tetrachlorobiphenyl_M"
865 27:18 689 M 1539 M
877 27:31 230 M 1298 M
892 27:47 358 M 2119 M
925 28:22 573 2430
946 28:44 359 1955
E+02 7.144
m/z:291.9194 "Total_Tetrachlorobiphenyl_M+2"
864 27:17 336 M 1180 M
873 27:27 414 M 2066 M
895 27:50 431 2183
924 28:21 924 M 3911 M
943 28:41 426 2640
E+02 9.500
m/z:301.9626 "13C12-Tetrachlorobiphenyl_M"
863 27:16 246633 1262579
889 27:44 931 5033
900 27:55 529 2184
918 28:14 1817 13058
E+05 2.467
m/z:303.9597 "13C12-Tetrachlorobiphenyl_M+2"
863 27:16 304502 1562486
900 27:55 616 2326
910 28:06 379 1805
919 28:15 1376 10448
E+05 3.046
100
50
0
27:00
27:30
28:00
28:30

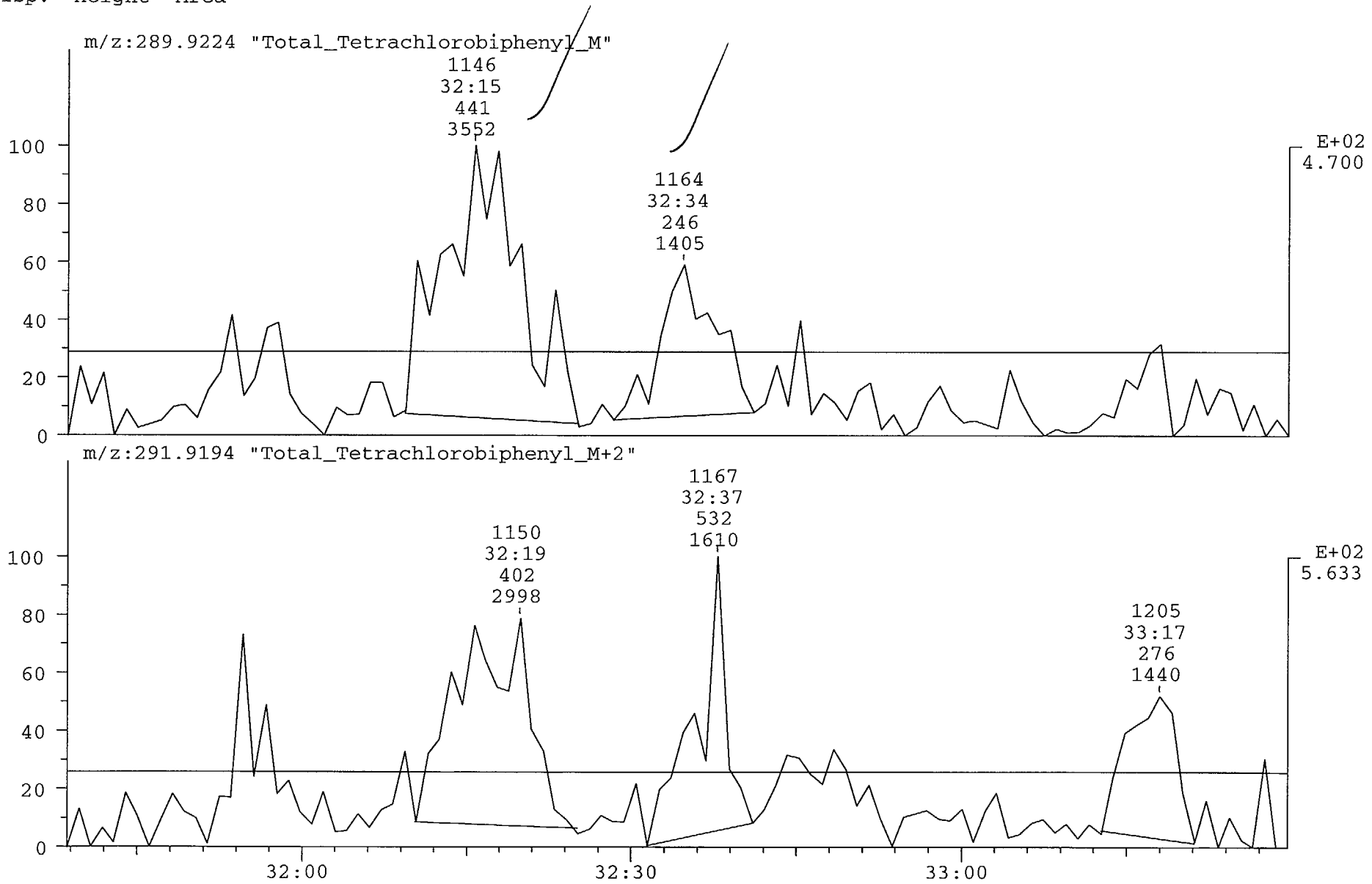
CHRO: aph2w5kb 25-Apr-06 Elapse: 28:42.3 944
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 962 > 1029 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -5, 3.0
Disp: Height Area



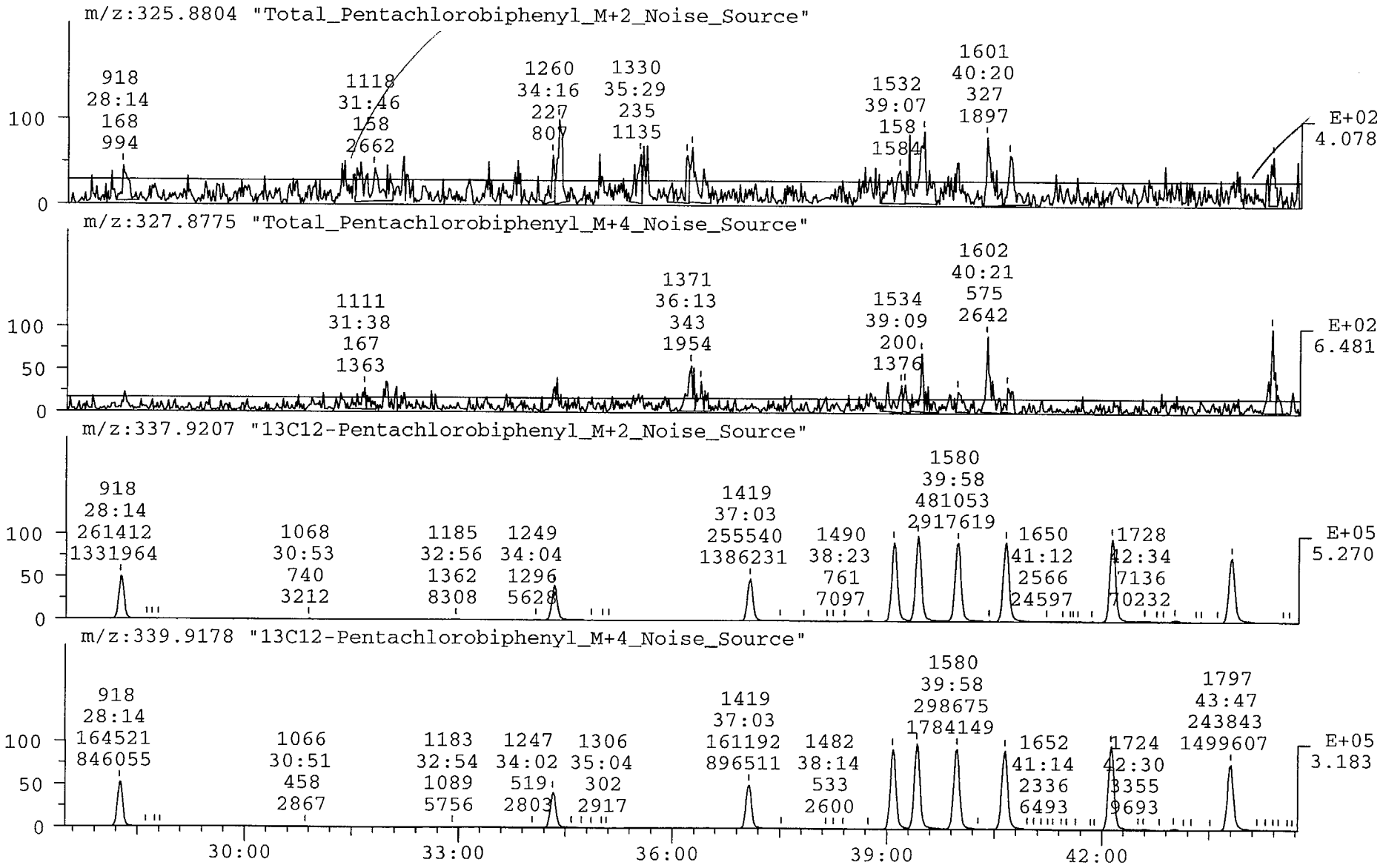
CHRO: aph2w5kb 25-Apr-06 Elapse: 28:42.3 944
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1022 > 1096 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



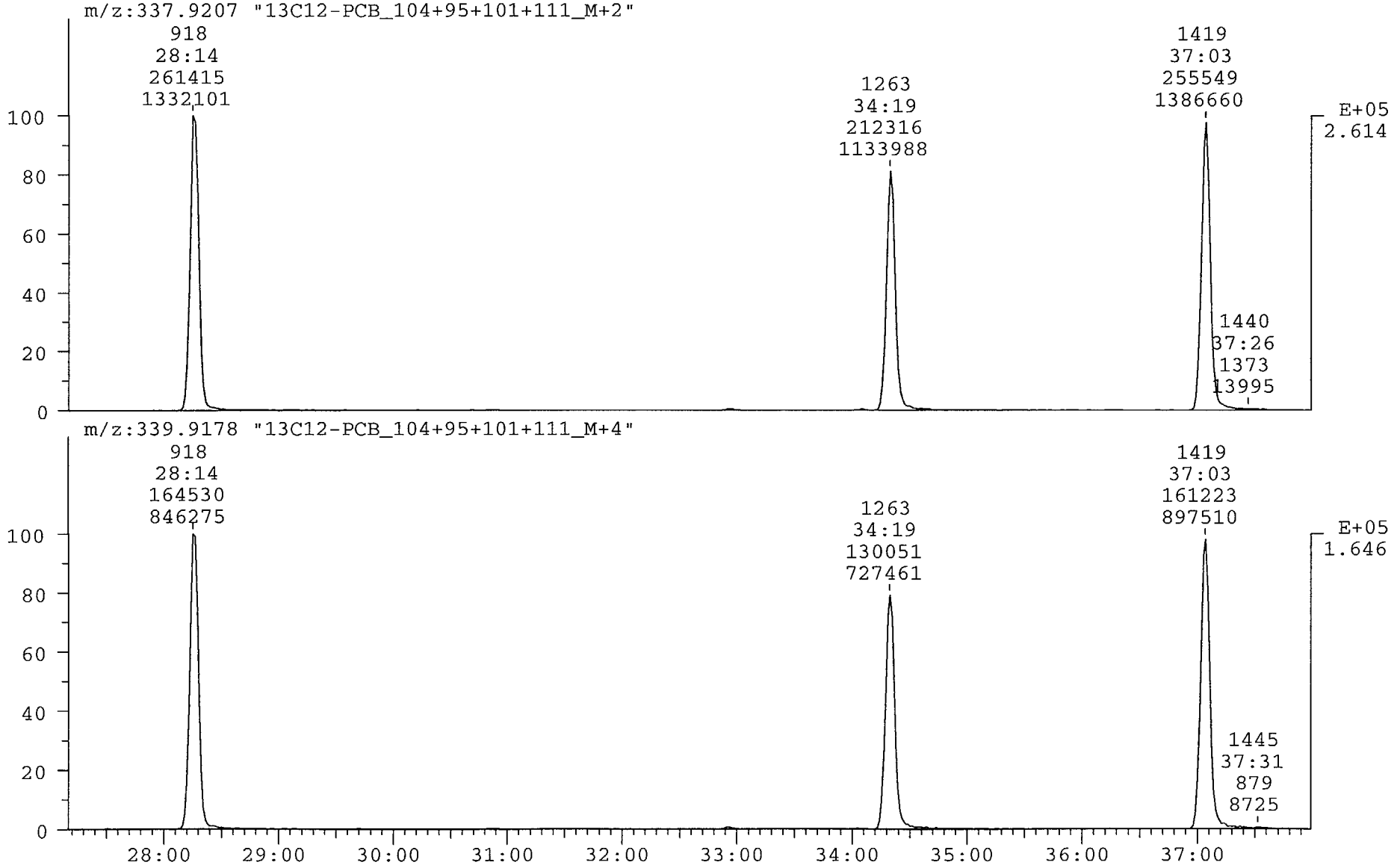
CHRO: aph2w5kb 25-Apr-06 Elapse: 28:42.3 944
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1111 > 1216 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



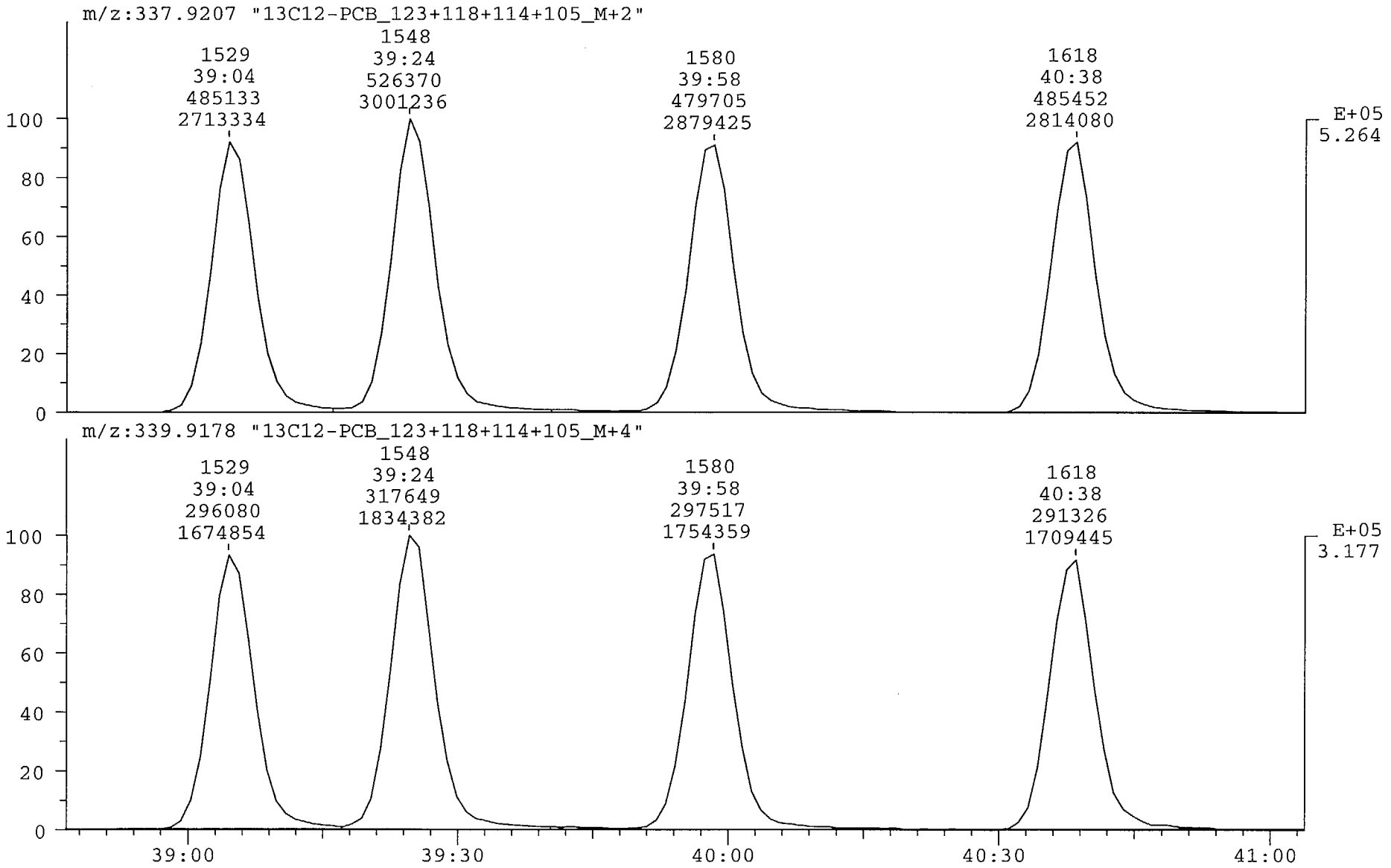
CHRO: aph2w5kb 25-Apr-06 Elapse: 36:05 1364
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 875 > 1850 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



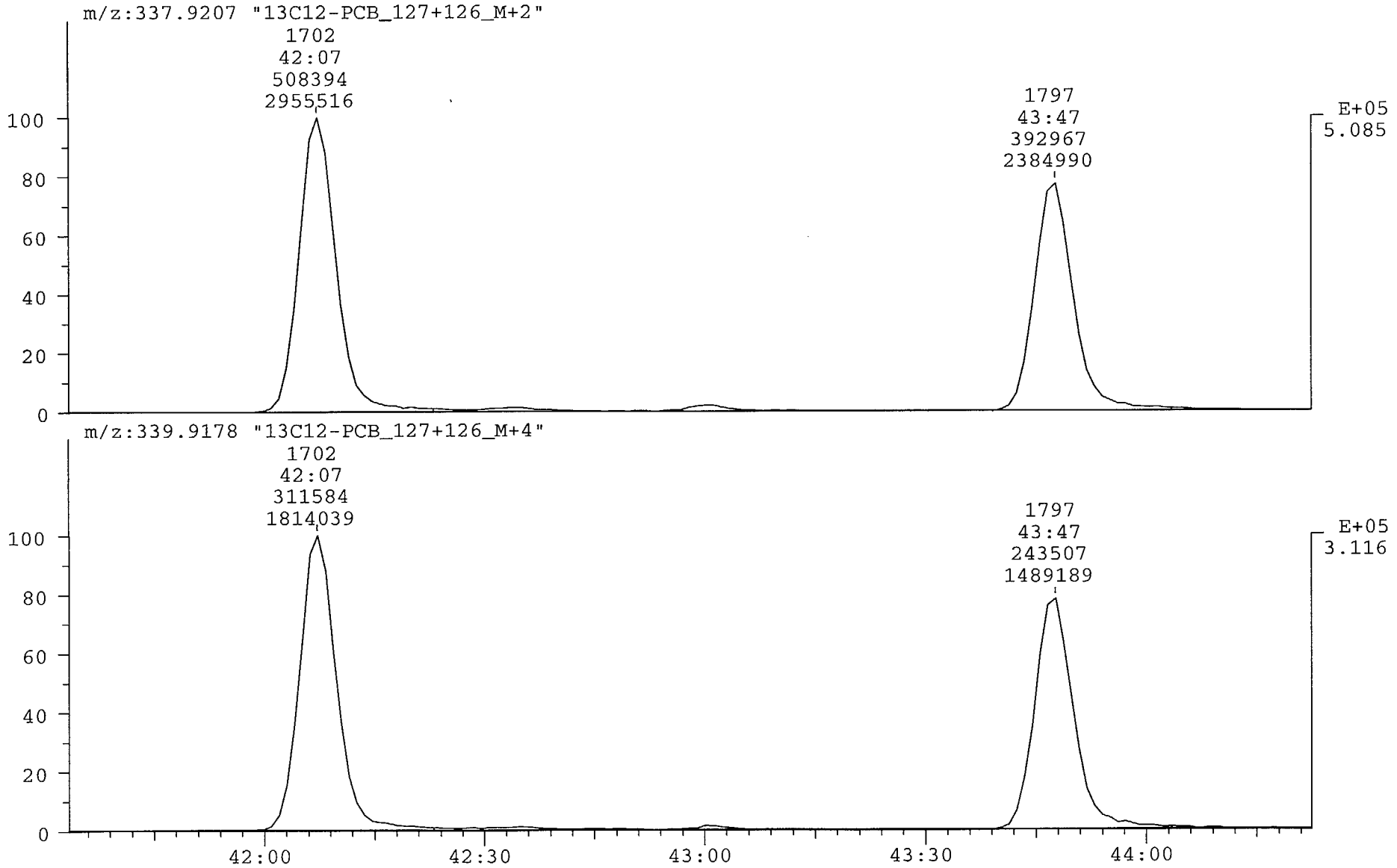
CHRO: aph2w5kb 25-Apr-06 Elapse: 32:33 1163
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 857 > 1471 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



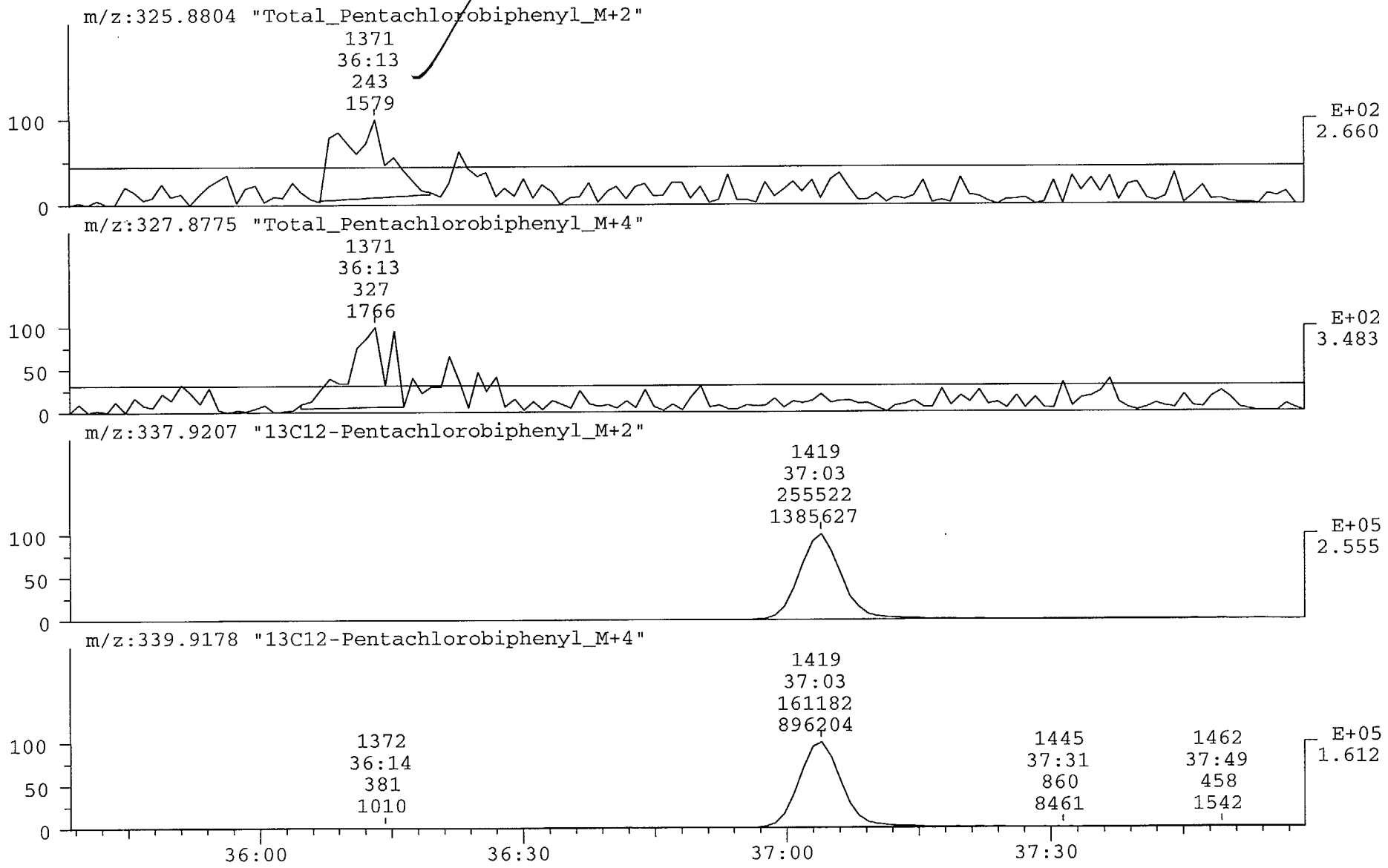
CHRO: aph2w5kb 25-Apr-06 Elapse: 39:55 1577
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1512 > 1642 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

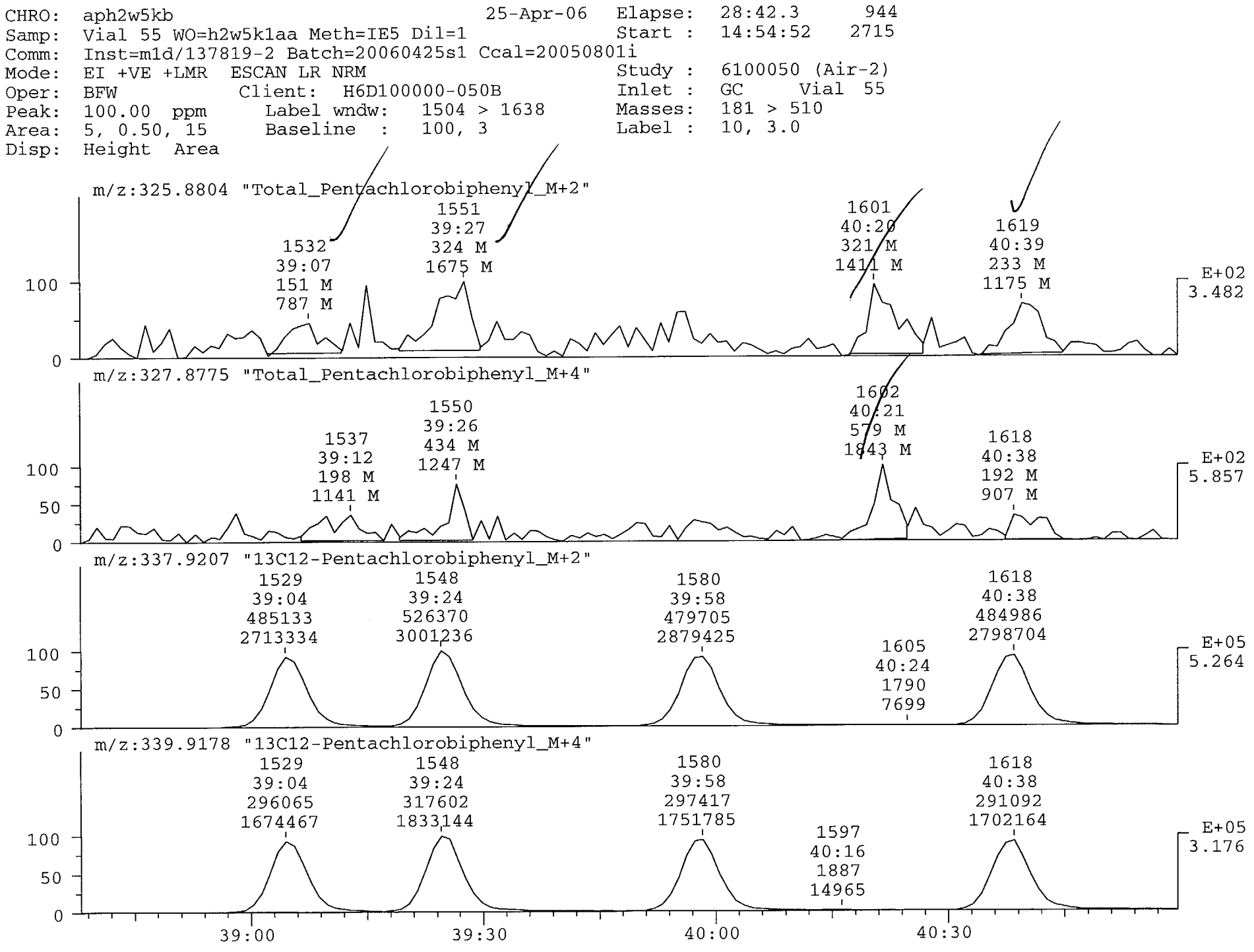


CHRO: aph2w5kb 25-Apr-06 Elapse: 42:57 1750
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1670 > 1830 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

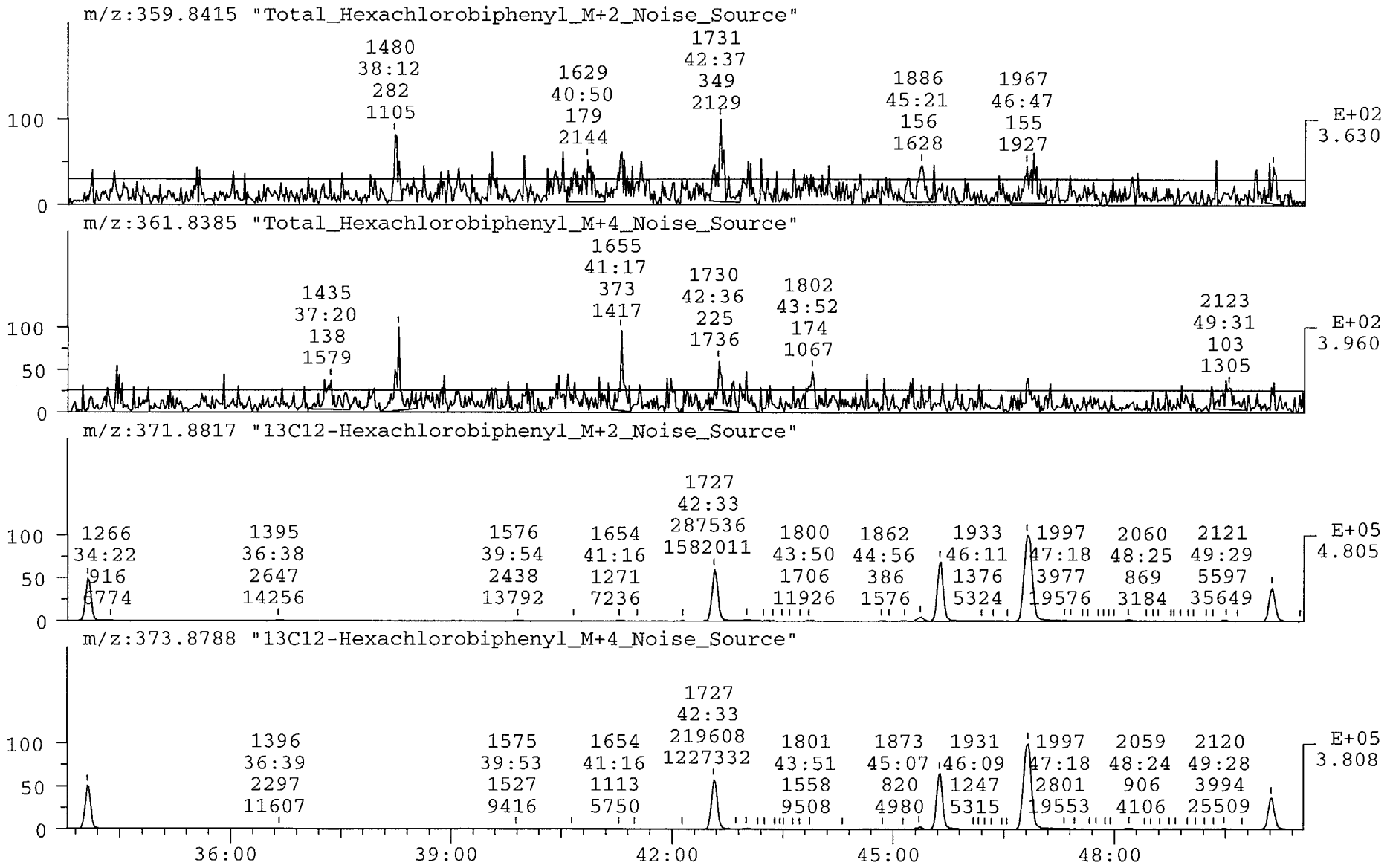


CHRO: aph2w5kb 25-Apr-06 Elapse: 28:42.3 944
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1338 > 1471 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area

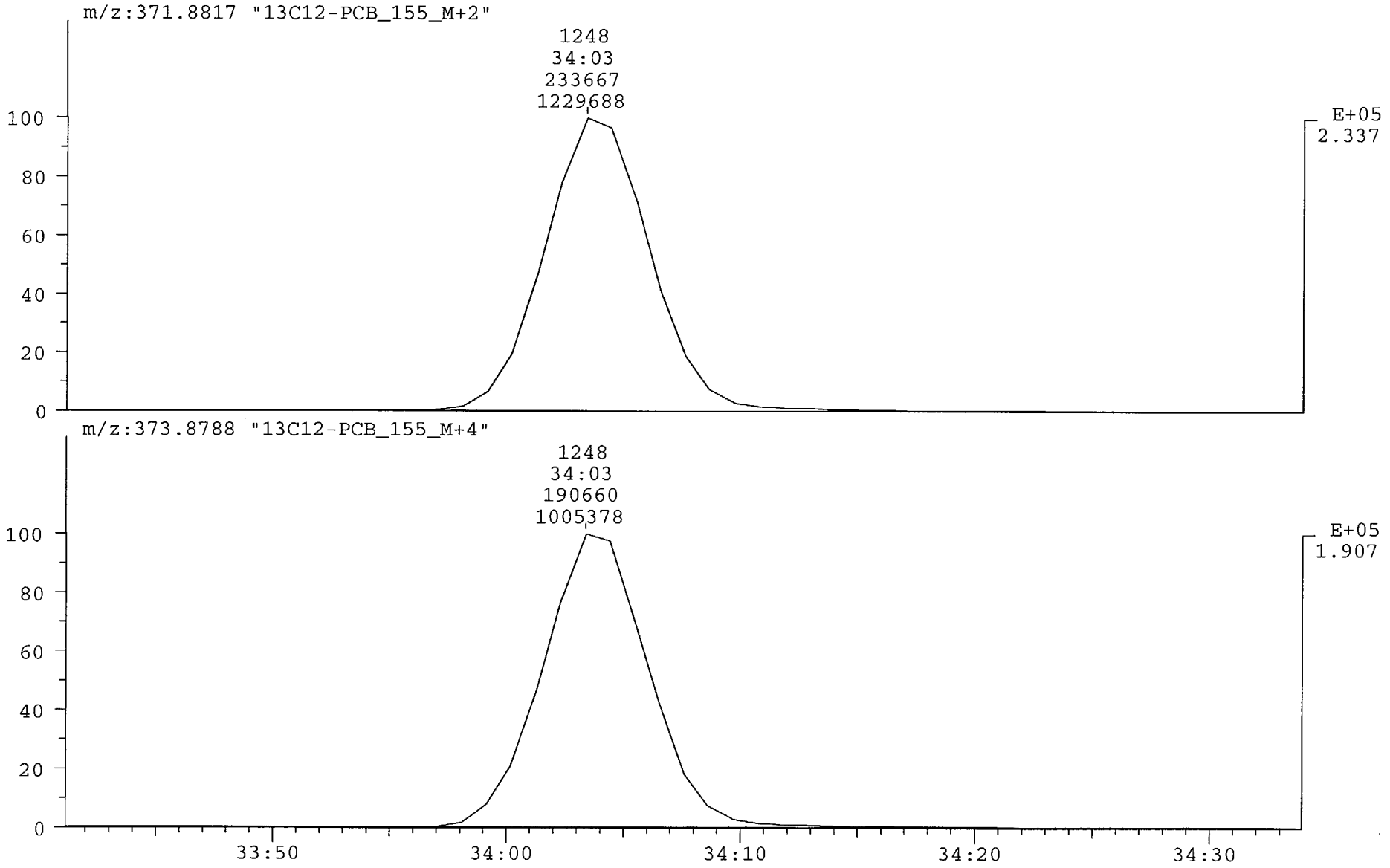



CHRO: aph2w5kb 25-Apr-06 Elapse: 28:42.3 944
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1504 > 1638 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 10, 3.0
Disp: Height Area
m/z:325.8804 "Total_Pentachlorobiphenyl_M+2"
1532 39:07 151 M 787 M
1551 39:27 324 M 1675 M
1601 40:20 321 M 1411 M
1619 40:39 233 M 1175 M
E+02 3.482
m/z:327.8775 "Total_Pentachlorobiphenyl_M+4"
1537 39:12 198 M 1141 M
1550 39:26 434 M 1247 M
1602 40:21 579 M 1843 M
1618 40:38 192 M 907 M
E+02 5.857
m/z:337.9207 "13C12-Pentachlorobiphenyl_M+2"
1529 39:04 485133 2713334
1548 39:24 526370 3001236
1580 39:58 479705 2879425
1605 40:24 1790 7699
1618 40:38 484986 2798704
E+05 5.264
m/z:339.9178 "13C12-Pentachlorobiphenyl_M+4"
1529 39:04 296065 1674467
1548 39:24 317602 1833144
1580 39:58 297417 1751785
1597 40:16 1887 14965
1618 40:38 291092 1702164
E+05 3.176
100
50
0
39:00
39:30
40:00
40:30

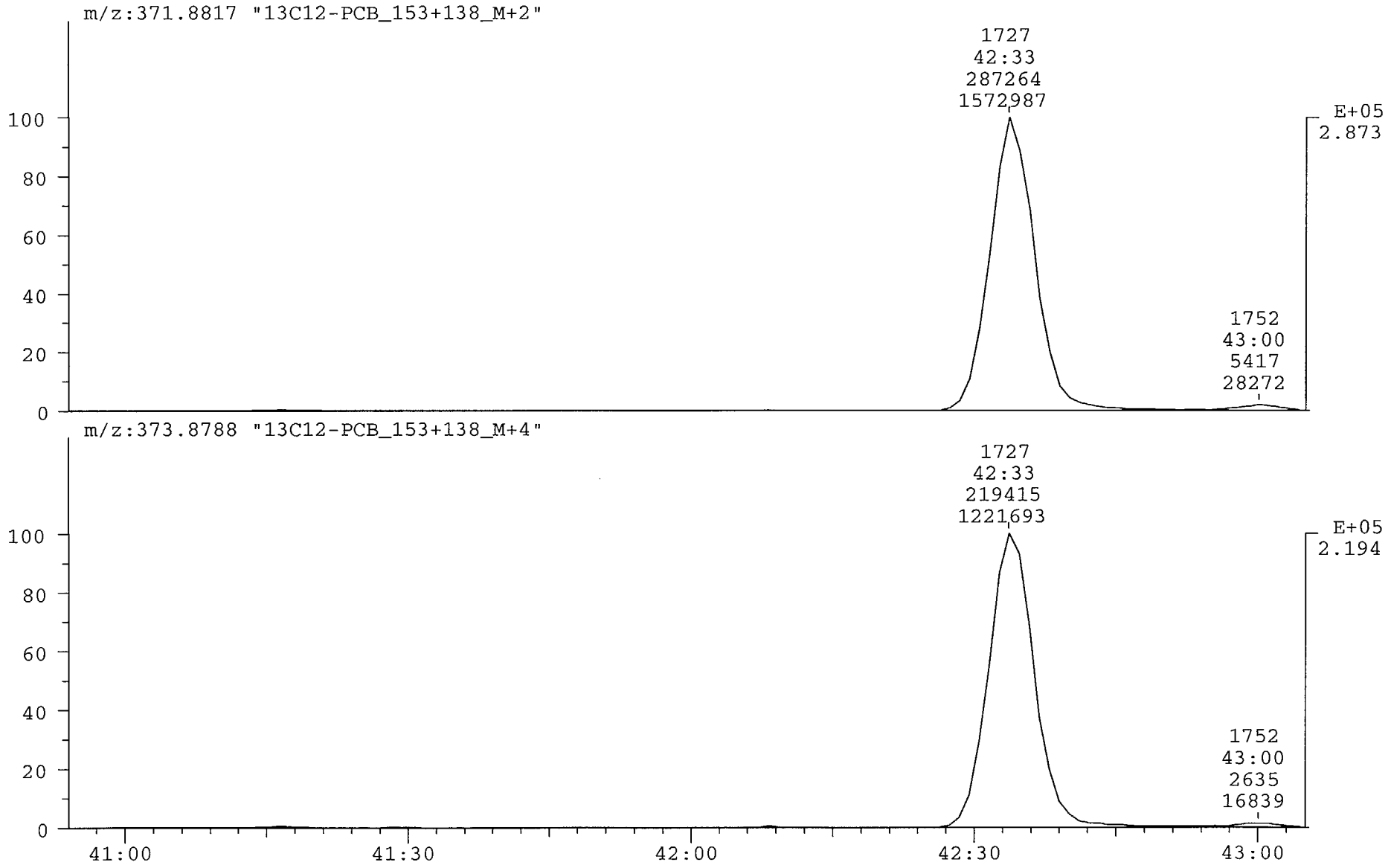
CHRO: aph2w5kb 25-Apr-06 Elapse: 42:10 1705
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1233 > 2181 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



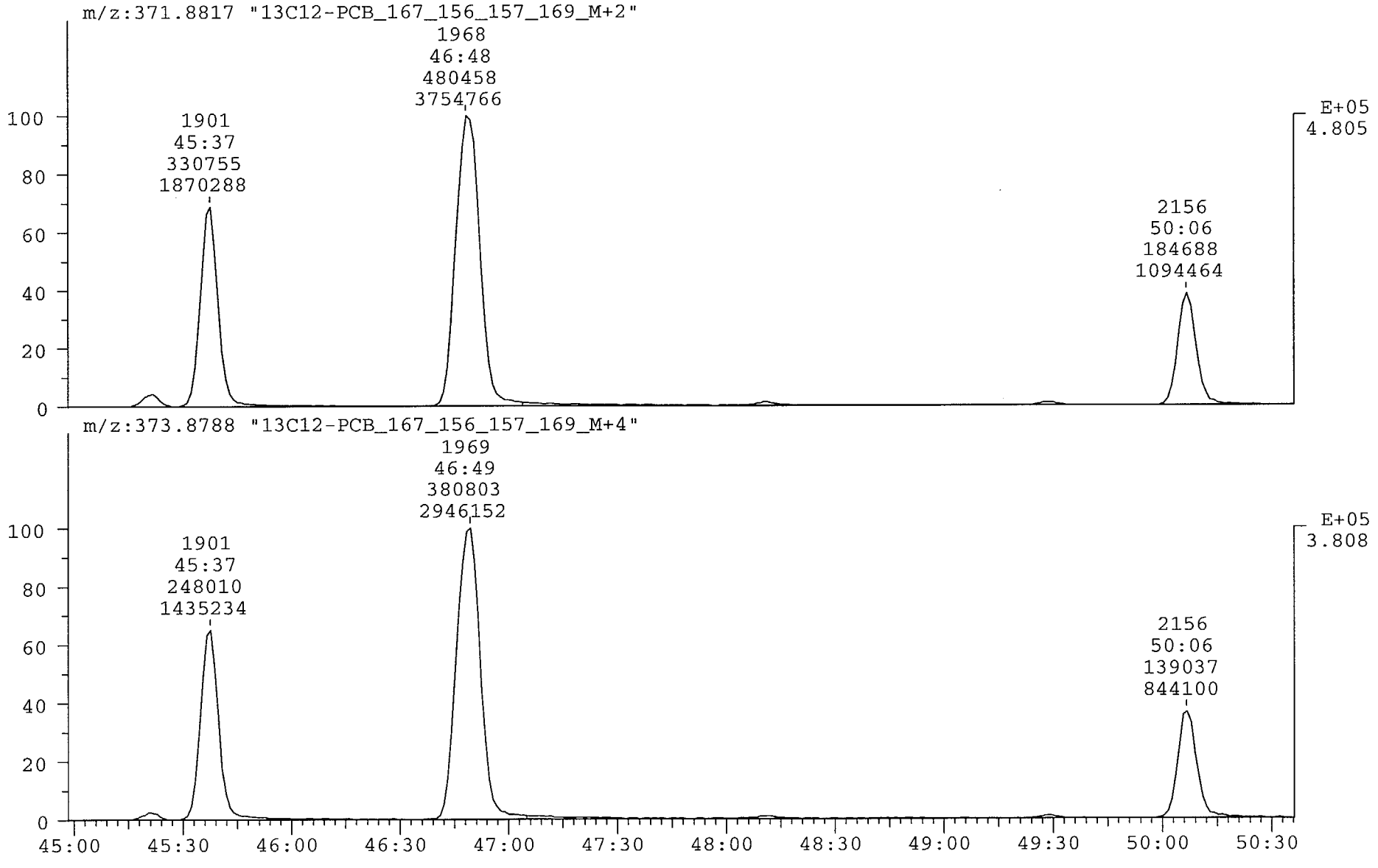
```
CHRO:  aph2w5kb                                25-Apr-06   Elapse:  34:07      1252
Samp:  Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1                  Start :  14:54:52   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050B              Inlet :  GC     Vial  55
Peak:  100.00  ppm     Label wndw:   1227 > 1277          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



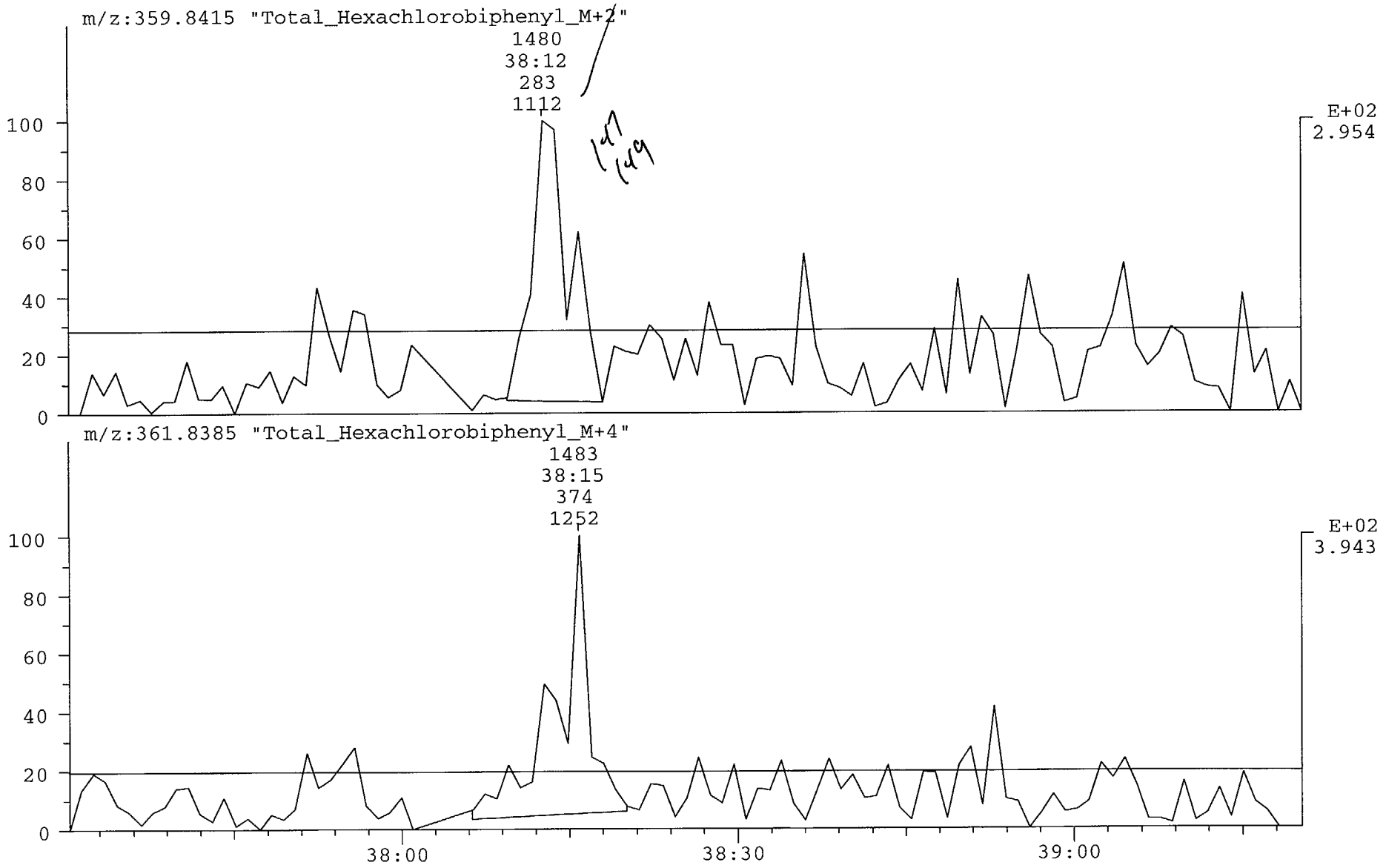
CHRO: aph2w5kb 25-Apr-06 Elapse: 41:58 1694
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1633 > 1757 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



CHRO: aph2w5kb 25-Apr-06 Elapse: 47:52 2029
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1864 > 2184 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

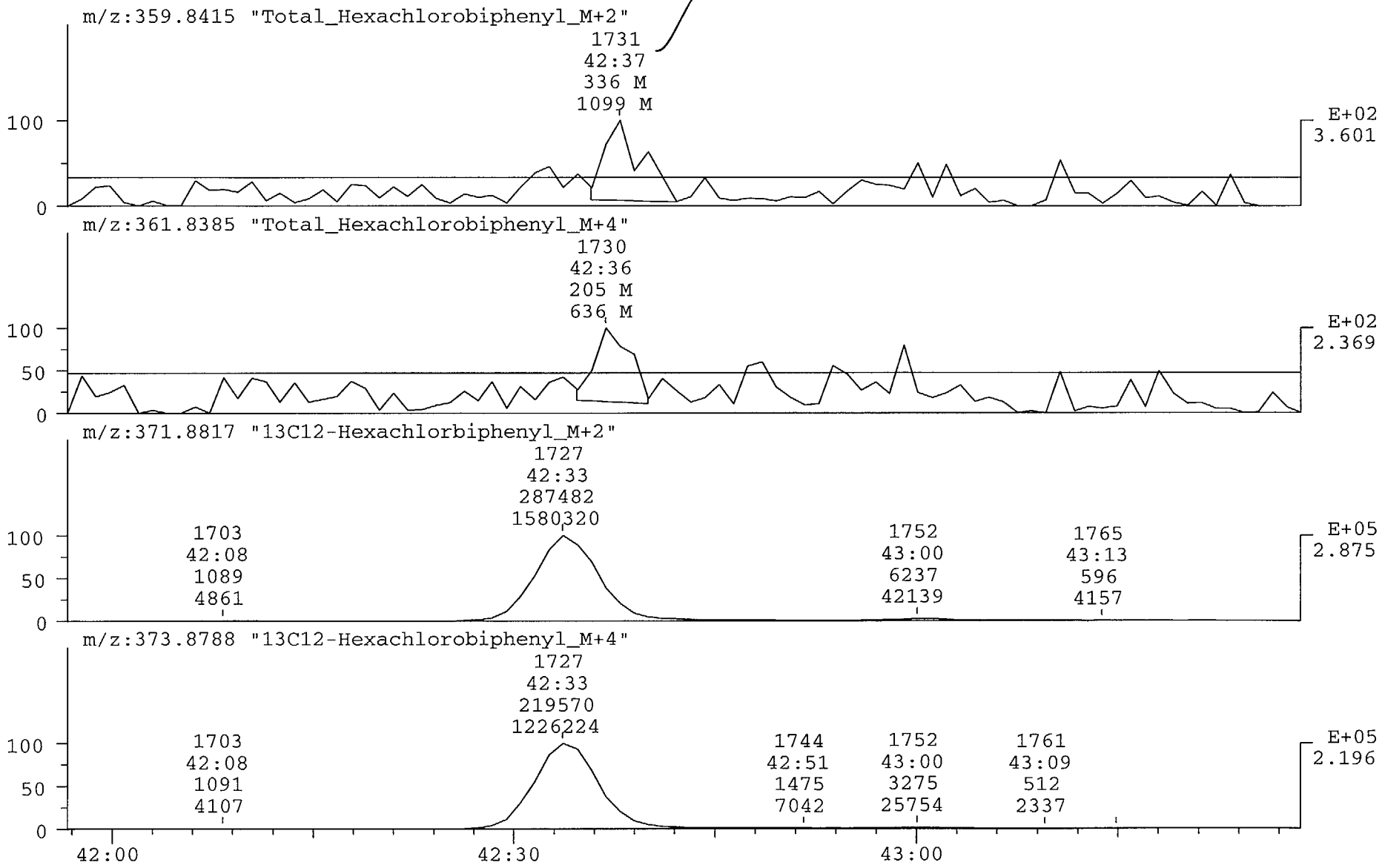


CHRO: aph2w5kb 25-Apr-06 Elapse: 28:42.3 944
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1444 > 1544 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 2.0
Disp: Height Area



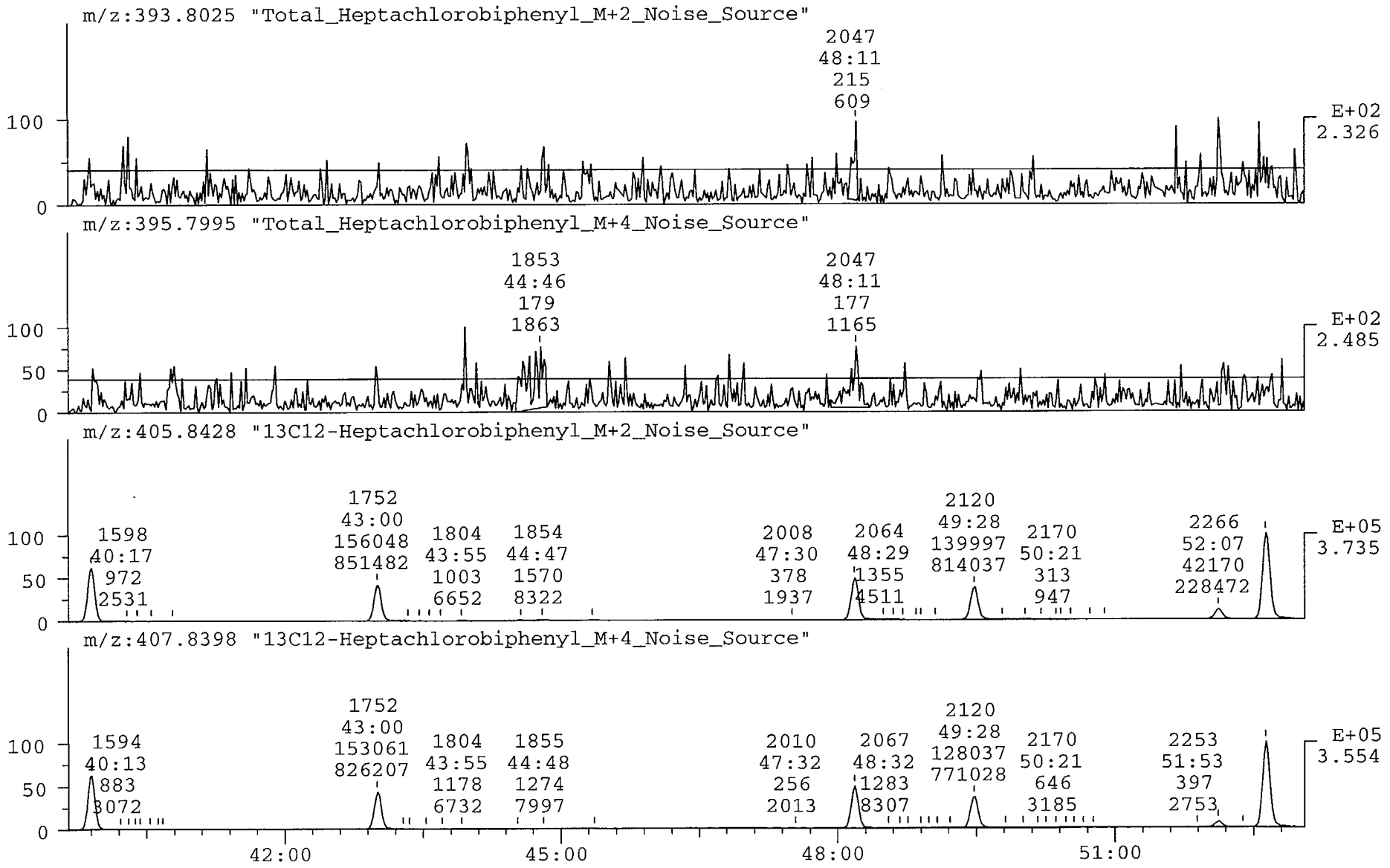
3201

CHRO: aph2w5kb 25-Apr-06 Elapse: 28:42.3 944
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1692 > 1779 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

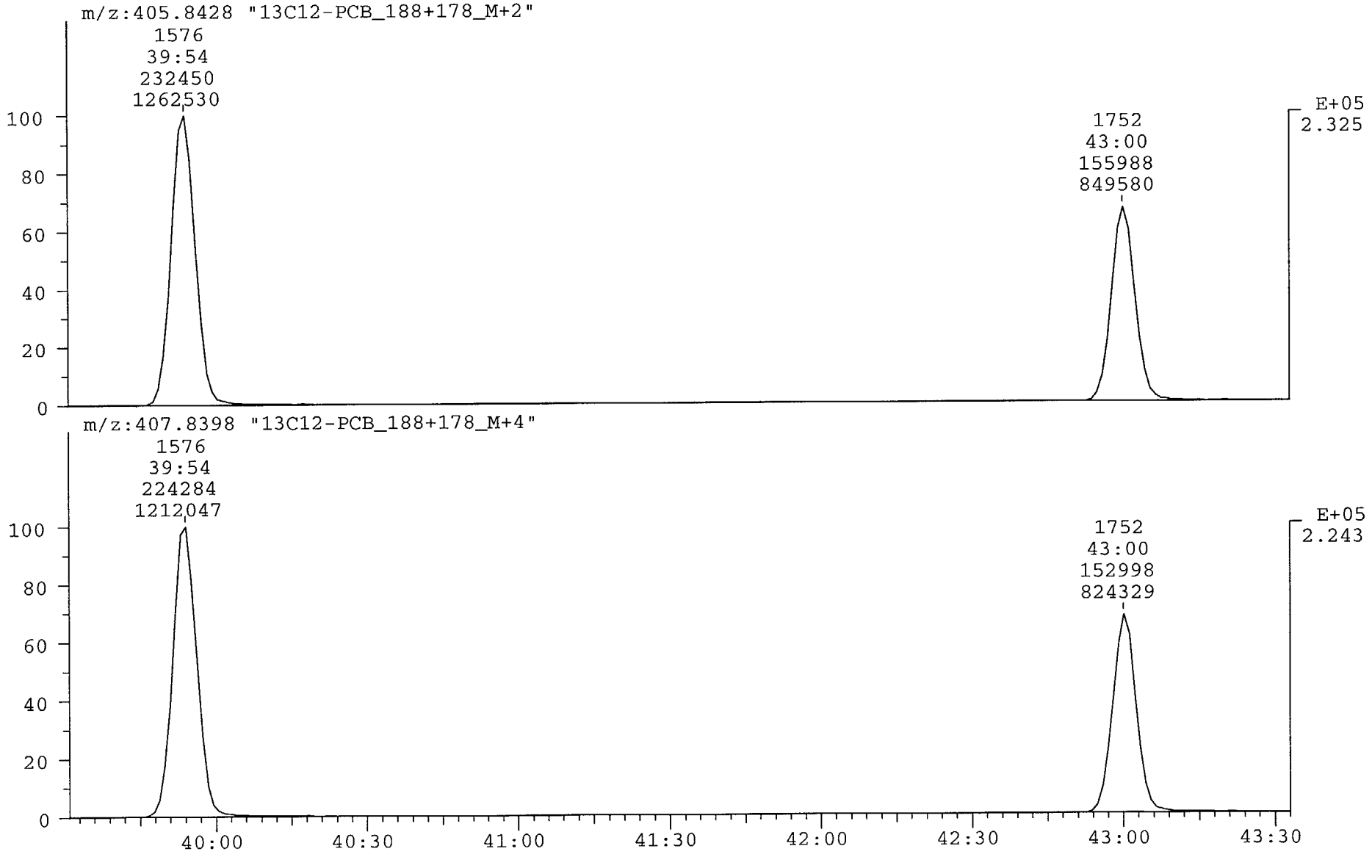


3202

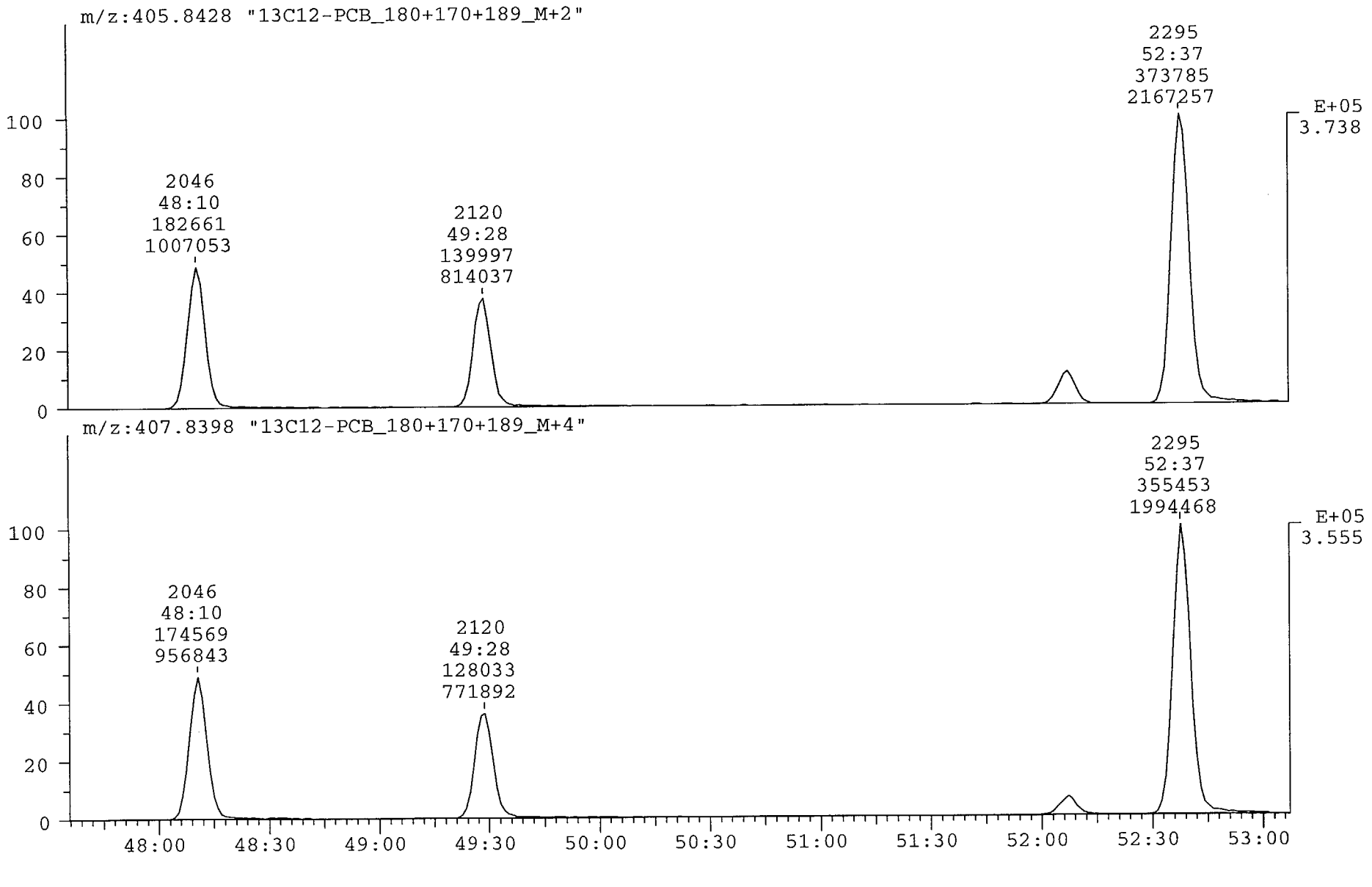
CHRO: aph2w5kb 25-Apr-06 Elapse: 46:20 1942
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1562 > 2319 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

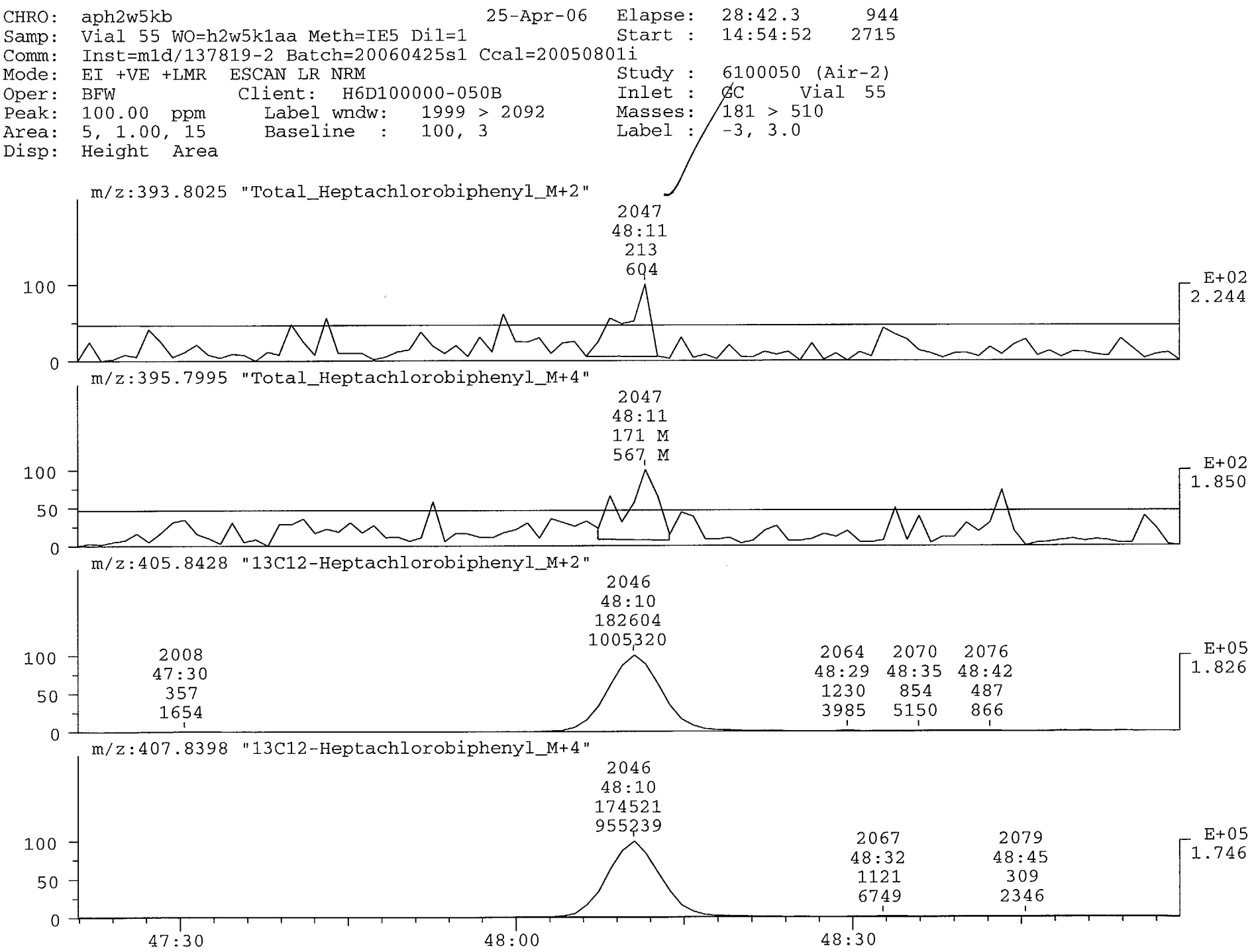


CHRO: aph2w5kb 25-Apr-06 Elapse: 41:32 1669
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1554 > 1783 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

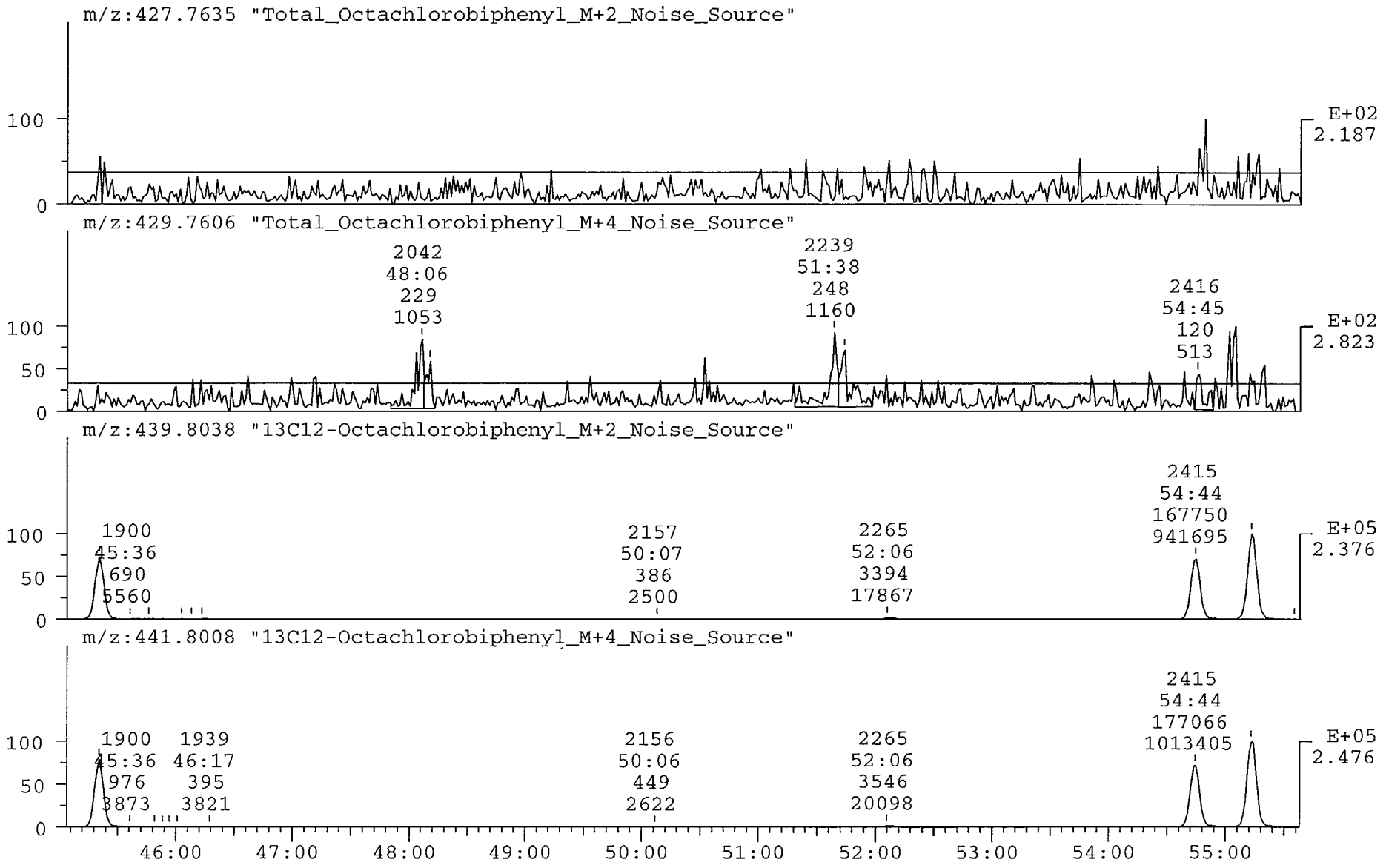


CHRO: aph2w5kb 25-Apr-06 Elapse: 50:24 2173
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 2013 > 2323 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

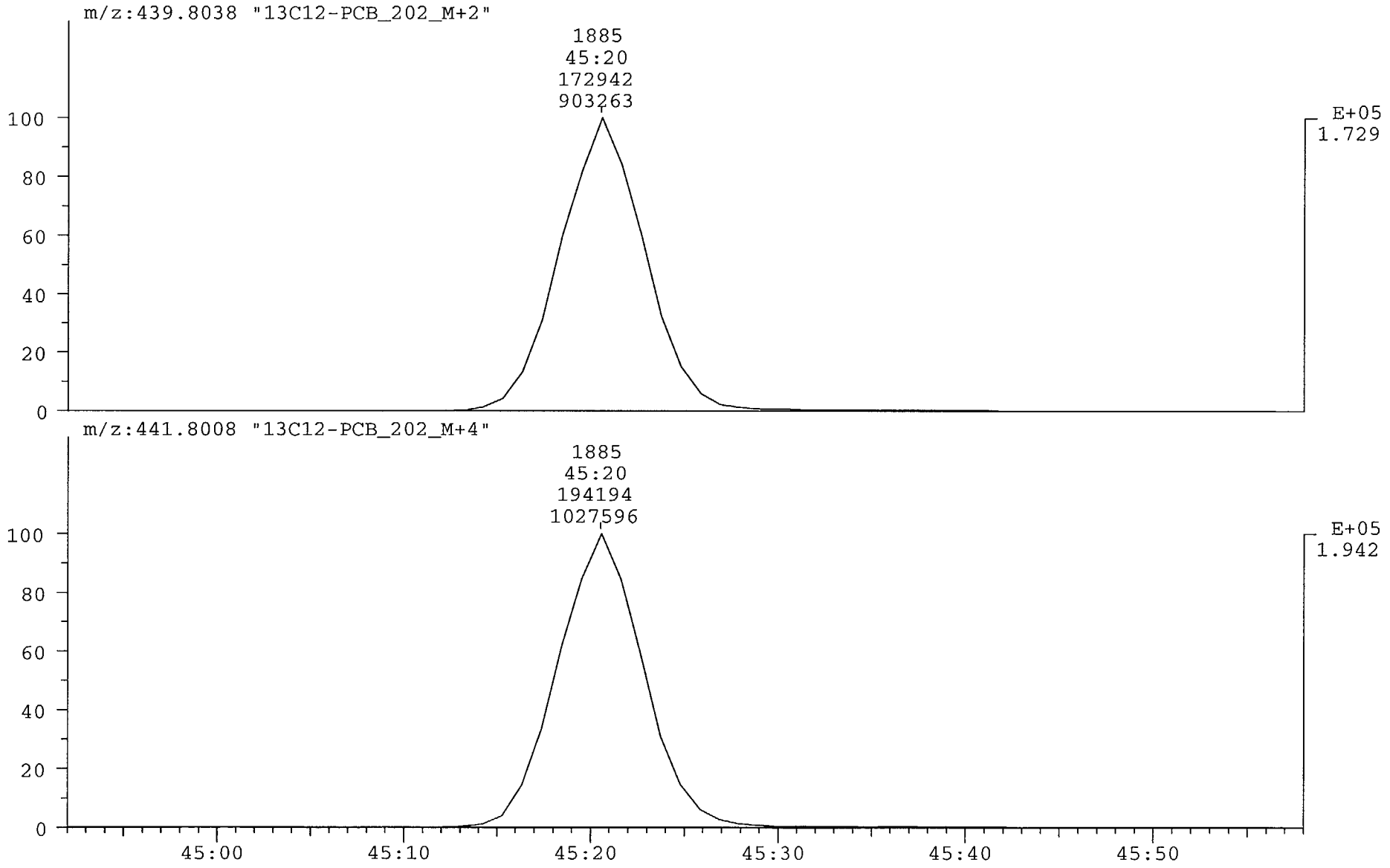



CHRO: aph2w5kb 25-Apr-06 Elapse: 28:42.3 944
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1999 > 2092 Masses: 181 > 510
Area: 5, 1.00, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area
m/z:393.8025 "Total_Heptachlorobiphenyl_M+2"
2047
48:11
213
604
E+02
2.244
m/z:395.7995 "Total_Heptachlorobiphenyl_M+4"
2047
48:11
171 M
567 M
E+02
1.850
m/z:405.8428 "13C12-Heptachlorobiphenyl_M+2"
2046
48:10
182604
1005320
2008
47:30
357
1654
2064
48:29
1230
3985
2070
48:35
854
5150
2076
48:42
487
866
E+05
1.826
m/z:407.8398 "13C12-Heptachlorobiphenyl_M+4"
2046
48:10
174521
955239
2067
48:32
1121
6749
2079
48:45
309
2346
E+05
1.746
100
50
0
47:30
48:00
48:30

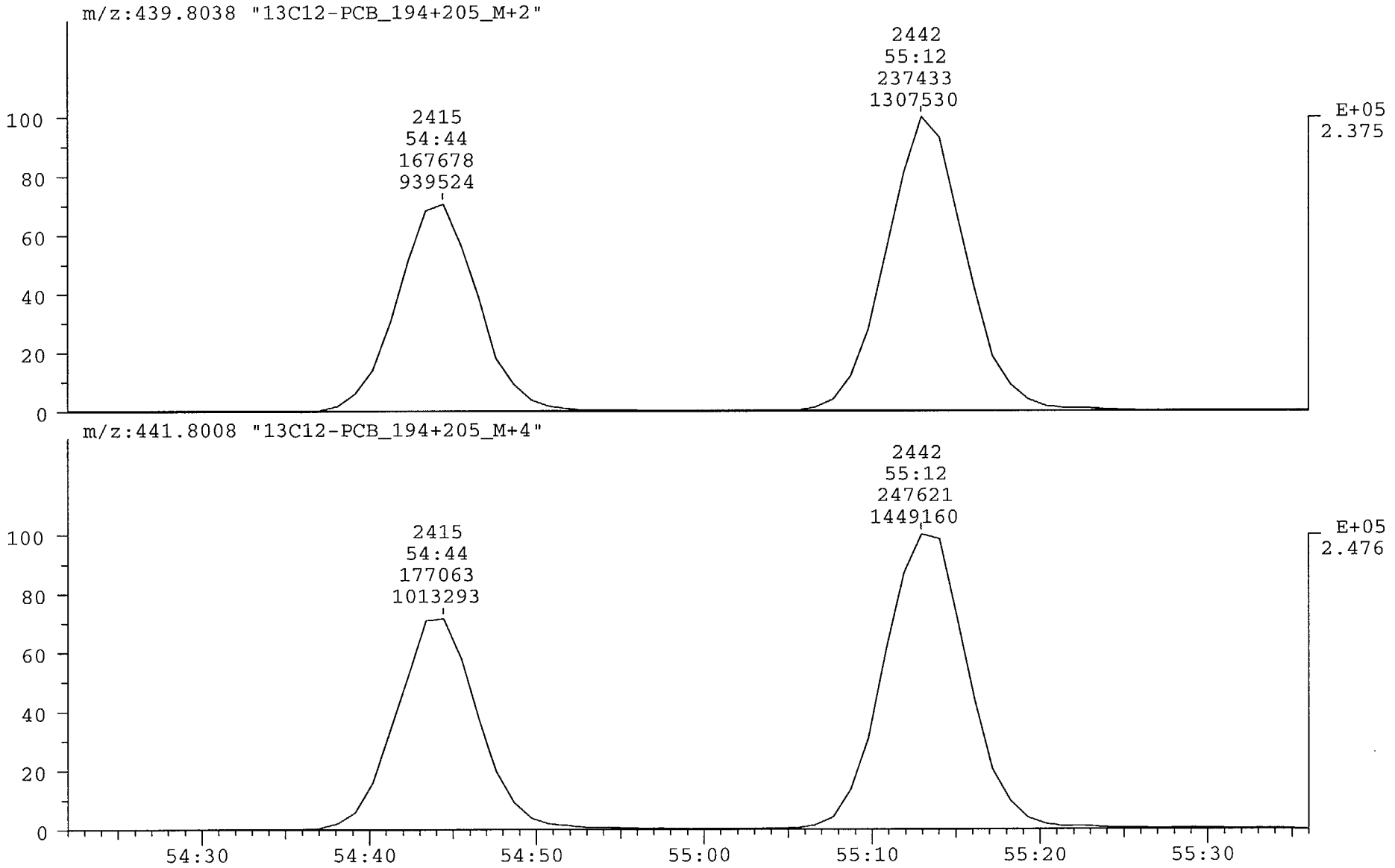
CHRO: aph2w5kb 25-Apr-06 Elapse: 50:21 2170
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1869 > 2466 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



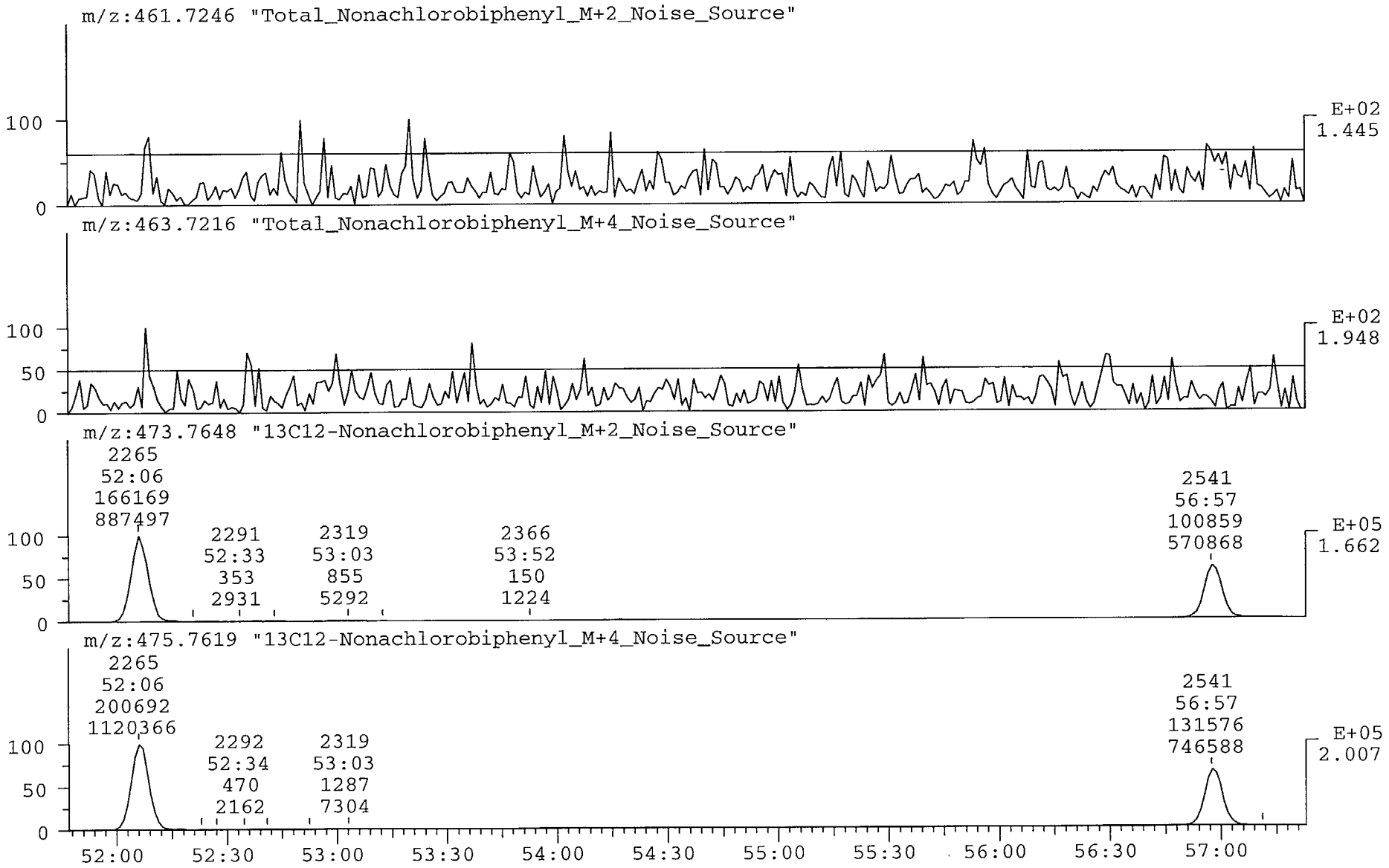
CHRO: aph2w5kb 25-Apr-06 Elapse: 45:21 1886
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1858 > 1921 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



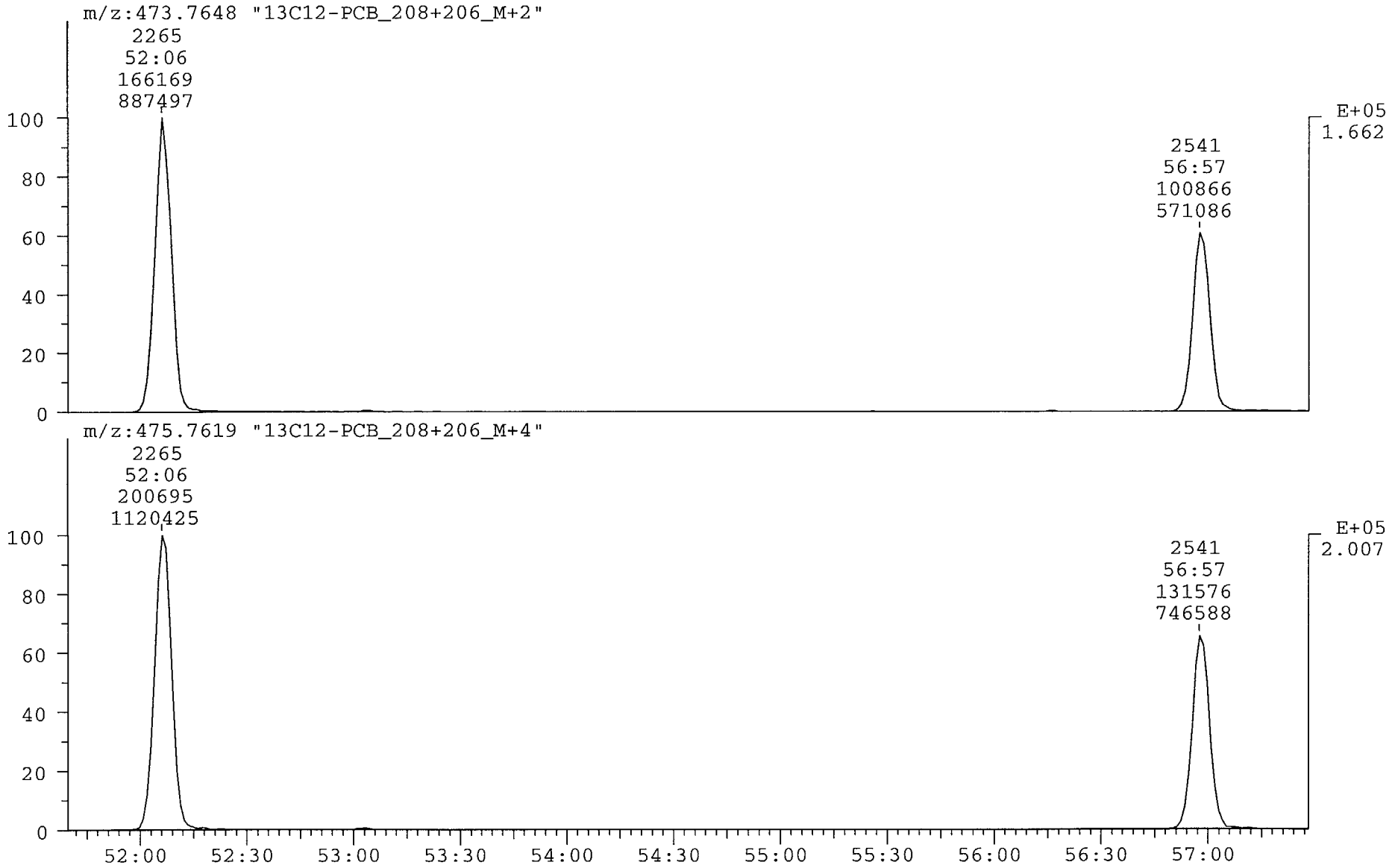
CHRO: aph2w5kb 25-Apr-06 Elapse: 54:59 2429
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 2394 > 2464 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



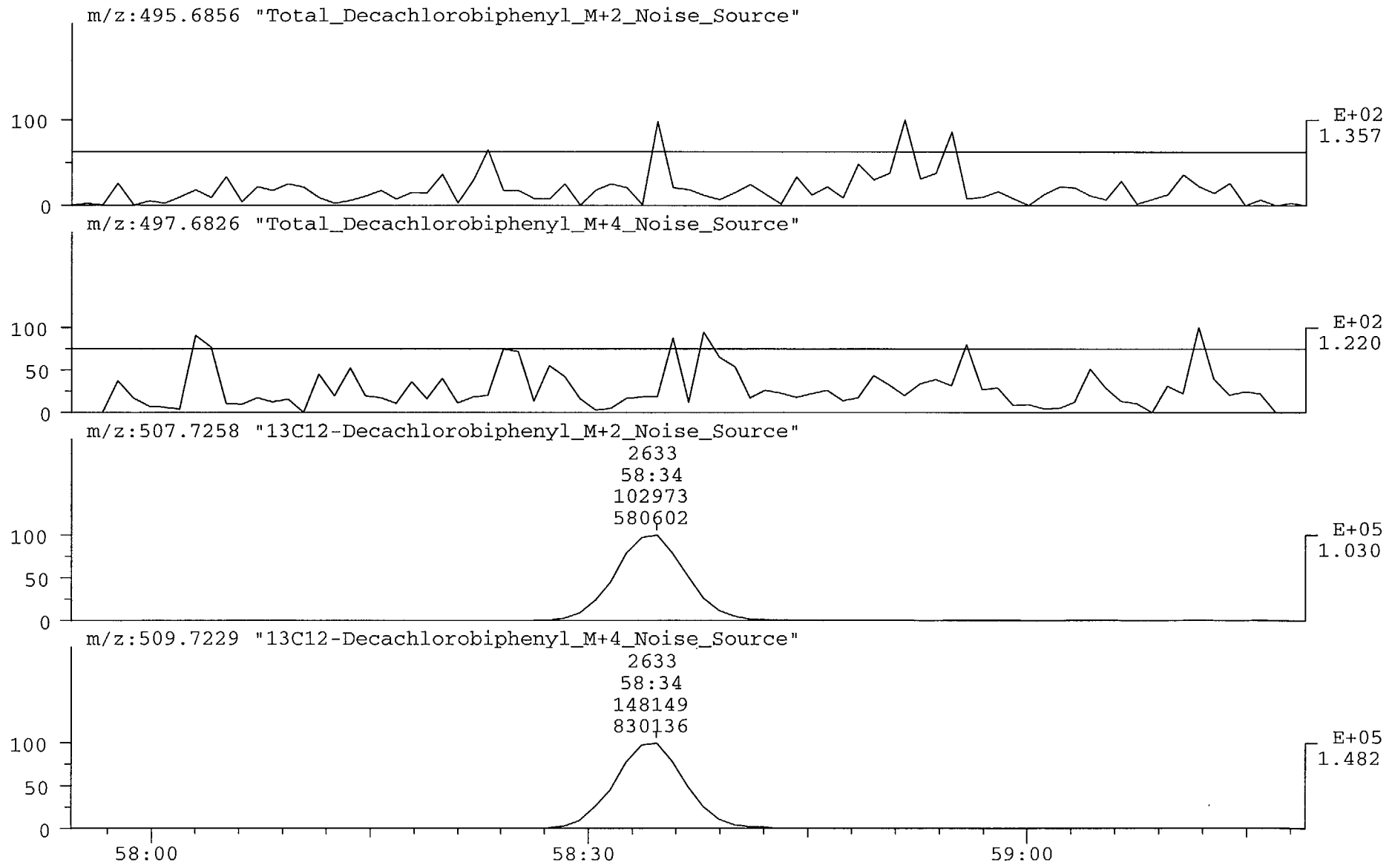
CHRO: aph2w5kb 25-Apr-06 Elapse: 54:34 2406
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 2247 > 2565 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



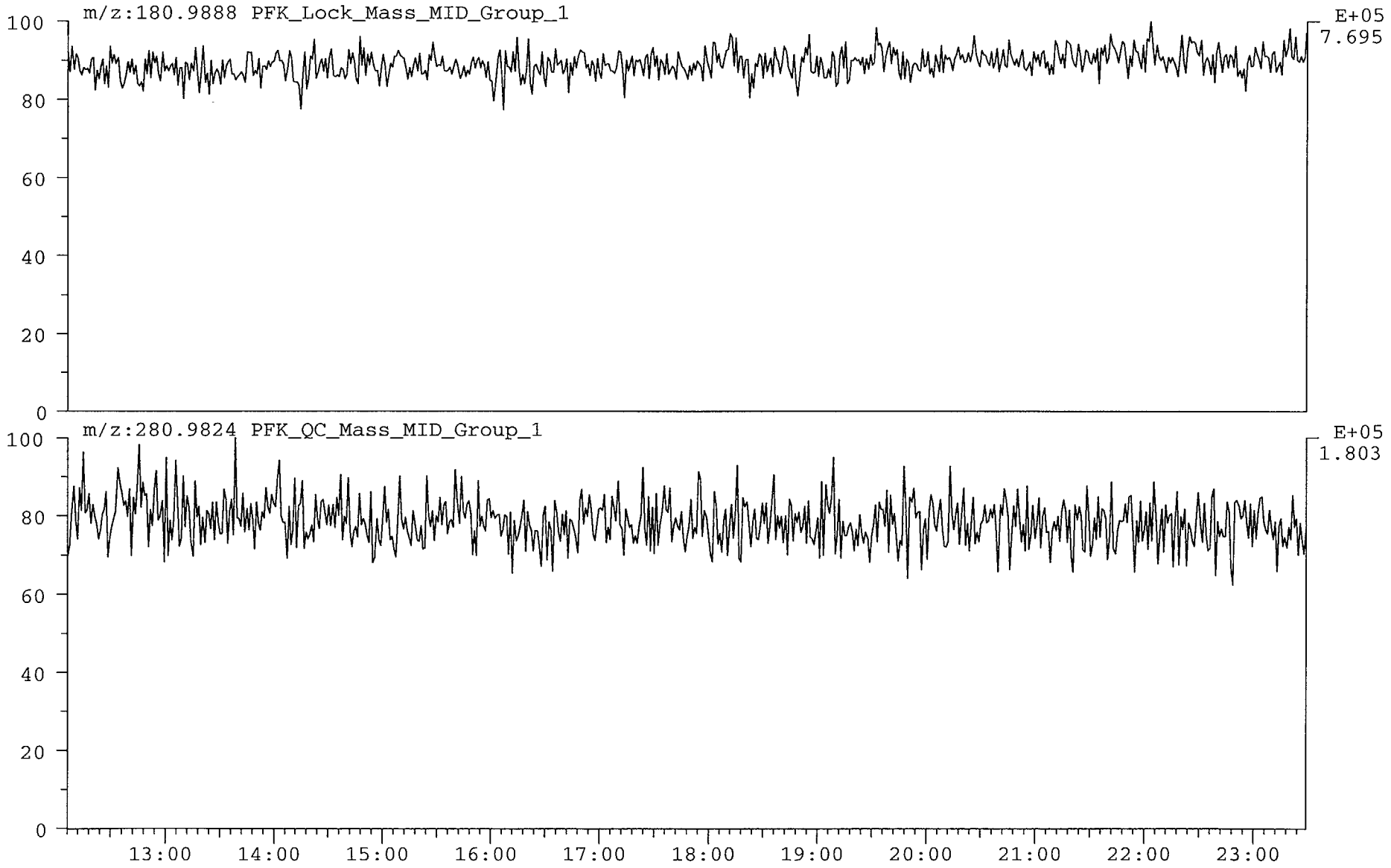
CHRO: aph2w5kb 25-Apr-06 Elapse: 54:33 2405
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 2240 > 2570 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



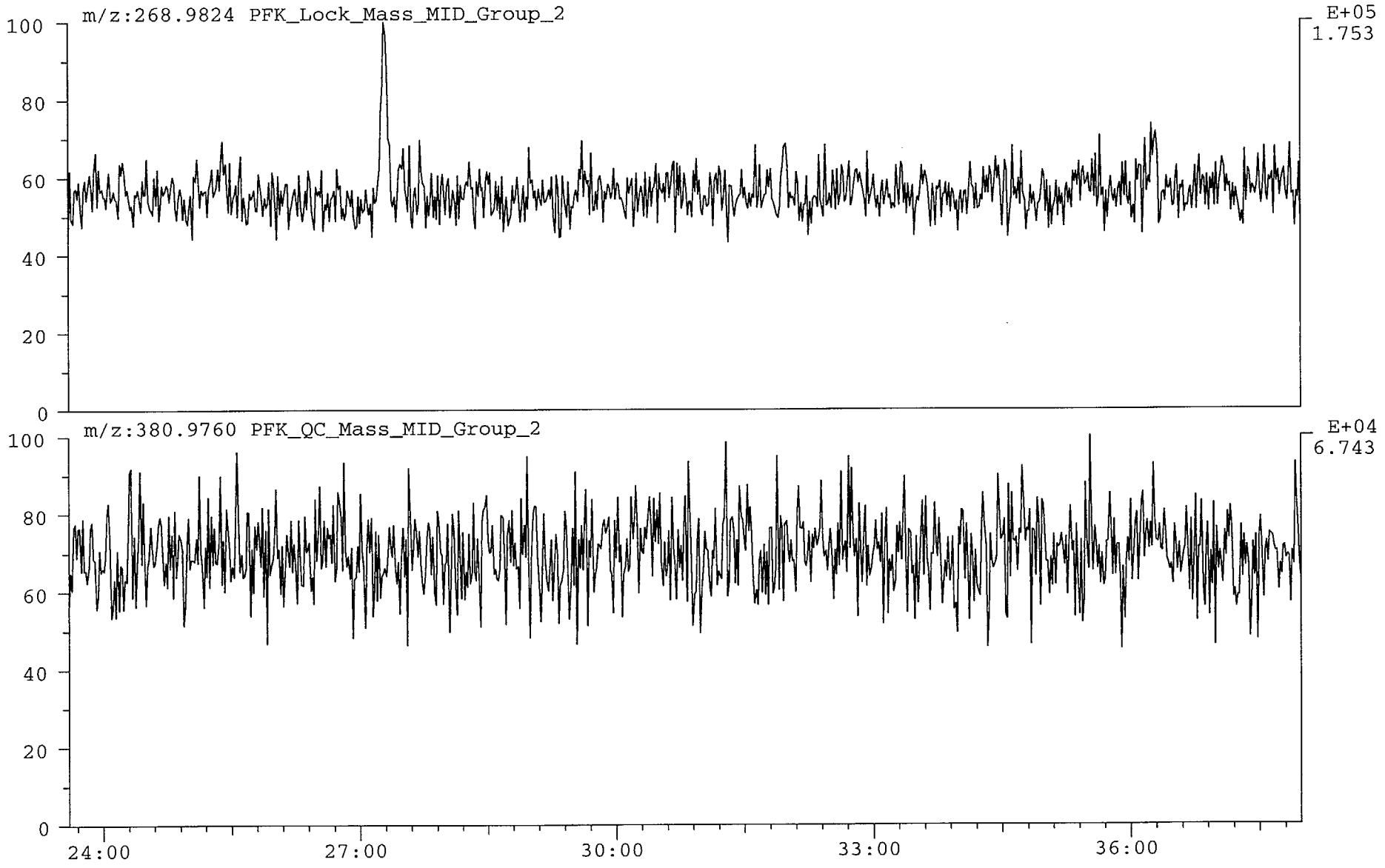
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:36 2635
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 2595 > 2675 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



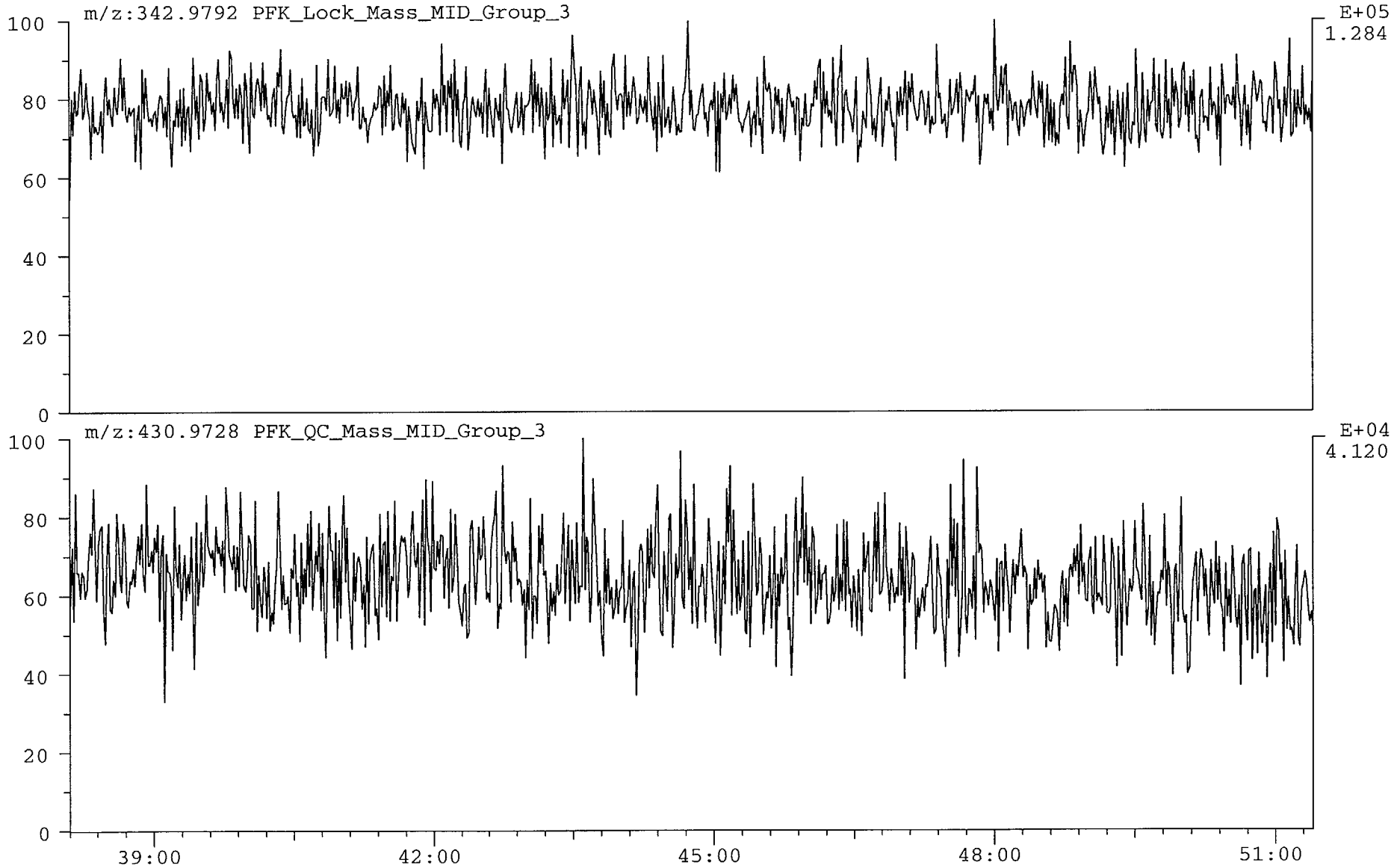
```
CHRO:  aph2w5kb                              25-Apr-06   Elapse:  58:36      2635
Samp:  Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1                Start :  14:54:52   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050B             Inlet :  GC     Vial  55
Peak:  100.00  ppm     Label wndw:   6 > 651             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  0, 0.0
Disp:  Height  Area
```



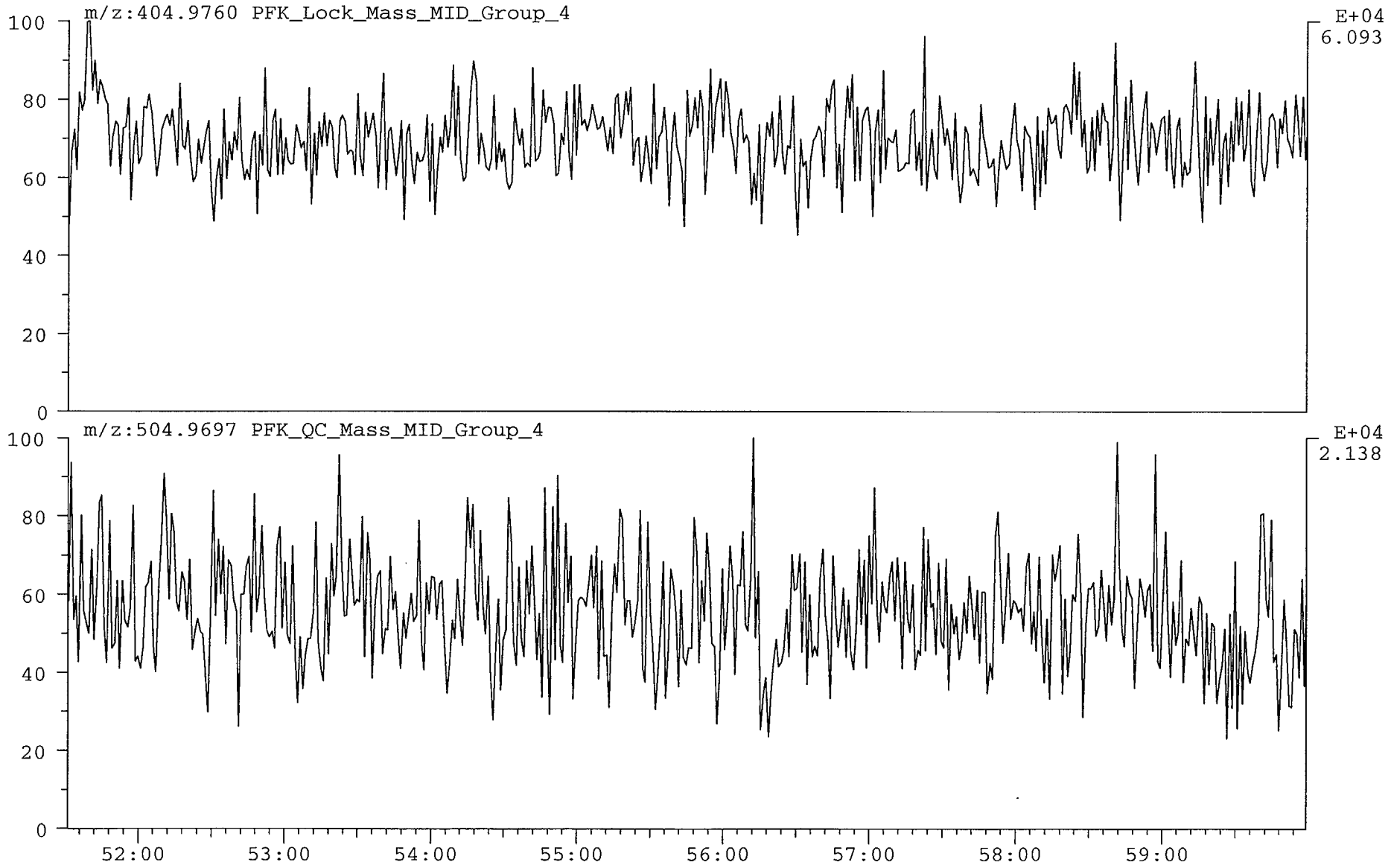
CHRO: aph2w5kb 25-Apr-06 Elapse: 58:36 2635
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 654 > 1471 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



CHRO: aph2w5kb 25-Apr-06 Elapse: 58:36 2635
Samp: Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1 Start : 14:54:52 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050B Inlet : GC Vial 55
Peak: 100.00 ppm Label wndw: 1474 > 2229 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



```
CHRO:  aph2w5kb                                25-Apr-06   Elapse:  58:36      2635
Samp:  Vial 55 WO=h2w5k1aa Meth=IE5 Dil=1                  Start :  14:54:52   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050B               Inlet :  GC     Vial  55
Peak:  100.00  ppm     Label wndw:   2232 > 2713          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: aph2w5kb
Study: 6100050 (Air-2)
Sample: WO=h2w5k1aa Meth=IE5 Dil=1
Amount: 0.00
Volume: 0.00
Operator: BFW
Client: H6D100000-050B
Comments: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 55
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 3 of list 060425
ICL procedure: sleep7x
MID procedure: 1668_rev3

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	12:00 min	11:30 min	23:30 min	1.00 sec
# 2	23:30 min	14:30 min	38:00 min	1.00 sec
# 3	38:00 min	13:25 min	51:25 min	1.00 sec
# 4	51:25 min	8:35 min	60:00 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 : 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	
	280 deg	at	59.0 minutes	
	280 deg	at	60.0 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 1.2 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1033.9955
BMASS	192.9888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.6706
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-27.8000
DRAWC	1.0000	DRAWS	0.0050	ECORR	1.0006
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0000
EDACR	23.0000	EDACZ	0.0000	ELEN	62.0250
EMULT	1.4500	ENS	188.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	148.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	273.0000
FVINLET	274.0000	FVSRC	868.0000	FWIN	0.7000
GCTC	225.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	1.5098	HVANAL	1380.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4774.1100	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	1700.0000	LENSS	26.6000
LKM	192.9888	LM	800.0000	LMASS	192.9888
LMII	500.0000	MASS	192.9888	MDAC	2480998.5918

MDACR	23.0000	MRANGE	1033.9955	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	1801.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0750
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10106.3001	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2623.0000
SHIELDS	0.4000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.9600	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	2.2250	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	192.9888	XLENS	2601.0000
XLENSS	-7.4000	YLENS	3287.0000	YLENSS	-58.4000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 25-Apr-06 14:54:52.2

Autosampler has injected sample from vial 55
MID Time Window 1: Resolution is 8227
MID Time Window 2: Resolution is 8405
MID Time Window 3: Resolution is 8573
MID Time Window 4: Resolution is 7499
Analysis stopped at: 25-Apr-06 15:54:55.5 (run time 60.04 minutes)
Analysis stopped because MID run finished

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H6D030241 **Work Order # ...:** H2W5K1AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : H6D100000 - 050 H2W5K1AD-LCSD
Prep Date .....: 04/10/06 **Analysis Date ..:** 04/25/06
Prep Batch # ...: 6100050
Dilution Factor : 1
Analyst ID.....: Bruce F. Wagner **Instrument ID..:** M1D **Method.....:** EPA-22 1668A
Initial Wgt/Vol: 1 Sample

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS	RPD	RPD LIMITS
Decachlorobiphenyl	**10.0**	**7.81**	**ng/sampl**	**78**		**(50 - 150)**		
	10.0	**8.33**	**ng/sampl**	**83**		**(50 - 150)**	**6.4**	**(0 - 50)**
PCB 189 (BZ)	**10.0**	**9.26**	**ng/sampl**	**93**		**(50 - 150)**		
	10.0	**10.0**	**ng/sampl**	**100**		**(50 - 150)**	**7.8**	**(0 - 50)**
PCB 156 (BZ)	**20.0**	**20.6**	**ng/sampl**	**103**	**C**	**(50 - 150)**		
	20.0	**21.8**	**ng/sampl**	**109**	**C**	**(50 - 150)**	**5.7**	**(0 - 50)**
PCB 157 (BZ)	**20.0**	**20.6**	**ng/sampl**	**103**	**C156**	**(50 - 150)**		
	20.0	**21.8**	**ng/sampl**	**109**	**C156**	**(50 - 150)**	**5.7**	**(0 - 50)**
PCB 167 (BZ)	**10.0**	**10.0**	**ng/sampl**	**100**		**(50 - 150)**		
	10.0	**10.3**	**ng/sampl**	**103**		**(50 - 150)**	**3.4**	**(0 - 50)**
PCB 169 (BZ)	**10.0**	**9.83**	**ng/sampl**	**98**		**(50 - 150)**		
	10.0	**11.1**	**ng/sampl**	**111**		**(50 - 150)**	**12**	**(0 - 50)**
PCB 105 (BZ)	**10.0**	**9.72**	**ng/sampl**	**97**	**B**	**(50 - 150)**		
	10.0	**10.1**	**ng/sampl**	**101**	**B**	**(50 - 150)**	**4.1**	**(0 - 50)**
PCB 114 (BZ)	**10.0**	**9.66**	**ng/sampl**	**97**		**(50 - 150)**		
	10.0	**10.5**	**ng/sampl**	**105**		**(50 - 150)**	**8.2**	**(0 - 50)**
PCB 118 (BZ)	**10.0**	**10.5**	**ng/sampl**	**105**	**B**	**(50 - 150)**		
	10.0	**11.0**	**ng/sampl**	**110**	**B**	**(50 - 150)**	**4.6**	**(0 - 50)**
PCB 123 (BZ)	**10.0**	**10.6**	**ng/sampl**	**106**	**B**	**(50 - 150)**		
	10.0	**10.6**	**ng/sampl**	**106**	**B**	**(50 - 150)**	**0.22**	**(0 - 50)**
PCB 126 (BZ)	**10.0**	**10.1**	**ng/sampl**	**101**		**(50 - 150)**		
	10.0	**10.7**	**ng/sampl**	**107**		**(50 - 150)**	**5.8**	**(0 - 50)**
PCB 81 (BZ)	**10.0**	**10.6**	**ng/sampl**	**106**		**(50 - 150)**		
	10.0	**10.8**	**ng/sampl**	**108**		**(50 - 150)**	**2.5**	**(0 - 50)**
PCB 77 (BZ)	**10.0**	**10.7**	**ng/sampl**	**107**		**(50 - 150)**		
	10.0	**11.1**	**ng/sampl**	**111**		**(50 - 150)**	**3.7**	**(0 - 50)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 1	79	(30 - 140)
	83	(30 - 140)
13C12-PCB 3	82	(30 - 140)
	86	(30 - 140)
13C12-PCB 4	79	(30 - 140)
	85	(30 - 140)
13C12-PCB 15	77	(30 - 140)
	81	(30 - 140)
13C12-PCB 19	81	(30 - 140)
	87	(30 - 140)
13C12-PCB 37	86	(30 - 140)
	88	(30 - 140)
13C12-PCB 54	109	(30 - 140)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H6D030241 **Work Order # ...:** H2W5K1AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : H6D100000 - 050 H2W5K1AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY		RECOVERY LIMITS
	119		(30 - 140)
13C12-PCB 77	85		(30 - 140)
	82		(30 - 140)
13C12-PCB 81	87		(30 - 140)
	86		(30 - 140)
13C12-PCB 104	78		(30 - 140)
	86		(30 - 140)
13C12-PCB 105	95		(30 - 140)
	96		(30 - 140)
13C12-PCB 114	90		(30 - 140)
	93		(30 - 140)
13C12-PCB 118	94		(30 - 140)
	96		(30 - 140)
13C12-PCB 123	88		(30 - 140)
	91		(30 - 140)
13C12-PCB 126	83		(30 - 140)
	82		(30 - 140)
13C12-PCB 155	99		(30 - 140)
	107		(30 - 140)
13C12-PCB 156	93	**C**	(30 - 140)
	95	**C**	(30 - 140)
13C12-PCB 157	93	**C**	(30 - 140)
	95	**C**	(30 - 140)
13C12-PCB 167	90		(30 - 140)
	91		(30 - 140)
13C12-PCB 169	71		(30 - 140)
	61		(30 - 140)
13C12-PCB 170	98		(30 - 140)
	94		(30 - 140)
13C12-PCB 188	89		(30 - 140)
	89		(30 - 140)
13C12-PCB 189	107		(30 - 140)
	115		(30 - 140)
13C12-PCB 202	100		(30 - 140)
	97		(30 - 140)
13C12-PCB 205	96		(30 - 140)
	95		(30 - 140)
13C12-PCB 206	81		(30 - 140)
	79		(30 - 140)
13C12-PCB 208	76		(30 - 140)
	79		(30 - 140)
13C12-PCB 209	74		(30 - 140)
	73		(30 - 140)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
13C12-PCB 28	93	(40 - 125)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H6D030241 **Work Order # ...:** H2W5K1AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : H6D100000 - 050 H2W5K1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	100	(40 - 125)
13C12-PCB 111	96	(40 - 125)
	100	(40 - 125)
13C12-PCB 178	96	(40 - 125)
	97	(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.

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	11:04	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Total Monochlorobiphenyl		7543214	2084919			34.247425		34.247425	B	0.0249
13C12-PCB 1	13:15	3973870	1256684	1.412	20.00	15.869945	79.35	15.869945		0.0167
13C12-PCB 3	15:39	4068081	1030806	1.399	20.00	16.396252	81.98	16.396252		0.0169
PCB 1 (BZ)	13:16	2613253	830195	1.136	10.00	11.575351	115.75	11.575351	B	0.00721
PCB 2 (BZ)	15:28	2411456	618633	1.050	10.00	11.422148	114.22	11.422148	B	0.00858
PCB 3 (BZ)	15:40	2518505	636091	1.101	10.00	11.249926	112.50	11.249926	B	0.00908
Total Dichlorobiphenyl		21612315	4534498			132.184900		132.184900	B	0.295
13C12-PCB 4	15:54	1678882	450466	0.602	20.00	15.714466	78.57	15.714466		0.0174
13C12-PCB 9	18:02	3547801	831133	1.000	20.00	20.000000	100.00	20.000000		0.0105
13C12-PCB 8				1.309	10.00			ND		0.0128
13C12-PCB 15	22:16	2914611	586482	1.069	20.00	15.369546	76.85	15.369546		0.00979
PCB 4 (BZ)	15:55	1155977	302960	1.249	10.00	11.022944	110.23	11.022944	B	0.0348
PCB 10 (BZ)	16:07	1710381	422096	1.369	10.00	10.880628	108.81	10.880628	B	0.0276
PCB 9 (BZ)	18:03	1776550	435373	1.492	10.00	10.367403	103.67	10.367403	B	0.0253
PCB 7 (BZ)	18:14	1827590	401276	1.456	10.00	10.927919	109.28	10.927919	B	0.0260
PCB 6 (BZ)	18:30	1855348	414280	1.513	10.00	10.679776	106.80	10.679776	B	0.0250
PCB 5 (BZ)	18:50	1630100	385933	1.332	10.00	10.659386	106.59	10.659386	B	0.0284
PCB 8 (BZ)	18:58	1897497	418094	1.519	10.00	10.881029	108.81	10.881029	B	0.0249
PCB 14 (BZ)	20:42	2144864	442344	1.694	10.00	11.024897	110.25	11.024897	B	0.0223
PCB 11 (BZ)	21:36	1902527	380490	1.390	10.00	11.920366	119.20	11.920366	B	0.0272
PCB 13 (BZ)		3681840		1.422	20.00	22.542869	112.71	22.542869	BC12	0.0266
PCB 12 (BZ)	21:57	3681840	555065	1.422	20.00	22.542869	112.71	22.542869	BC	0.0266
PCB 15 (BZ)	22:17	2029641	376587	1.235	10.00	11.277682	112.78	11.277682	B	0.0271
Total Trichlorobiphenyl		48788324	7816916			240.707308		240.707308	B	0.545
13C12-PCB 19	19:16	1315260	294557	0.546	20.00	16.187694	80.94	16.187694		0.0480
13C12-PCB 32	22:43	2976096	637642	1.000	20.00	20.000000	100.00	20.000000		0.0262
13C12-PCB 31	25:06	5600067	1123304	1.000	20.00	20.000000	100.00	20.000000		0.0149
13C12-PCB 28	25:25	4873845	942072	0.935	20.00	18.608003	93.04	18.608003		0.0159
13C12-PCB 37	29:36	4190388	741151	0.867	20.00	17.263787	86.32	17.263787		0.0172
PCB 19 (BZ)	19:17	773160	183432	1.265	10.00	9.296401	92.96	9.296401	B	0.0486
PCB 30 (BZ)	21:15	2023497	352003	1.669	20.00	18.432575	92.16	18.432575	BC18	0.0368
PCB 18 (BZ)		2023497		1.669	20.00	18.432575	92.16	18.432575	BC	0.0368
PCB 17 (BZ)	21:42	872858	190596	1.407	10.00	9.435734	94.36	9.435734		0.0437
PCB 27 (BZ)	21:56	1204936	269483	2.031	10.00	9.021576	90.22	9.021576	B	0.0303
PCB 24 (BZ)	22:05	1170856	245444	1.904	10.00	9.348889	93.49	9.348889	B	0.0323
PCB 16 (BZ)	22:12	776365	163113	1.213	10.00	9.729946	97.30	9.729946		0.0506
PCB 32 (BZ)	22:44	1302824	283398	2.154	10.00	9.198402	91.98	9.198402	B	0.0285
PCB 34 (BZ)	24:04	2350644	484525	1.134	10.00	9.895945	98.96	9.895945	B	0.0215
PCB 23 (BZ)	24:13	2324393	477493	1.119	10.00	9.915247	99.15	9.915247	B	0.0218
PCB 29 (BZ)		4880689		1.180	20.00	19.741709	98.71	19.741709	BC26	0.0207
PCB 26 (BZ)	24:33	4880689	848832	1.180	20.00	19.741709	98.71	19.741709	BC	0.0207
PCB 25 (BZ)	24:48	2799414	514346	1.321	10.00	10.112283	101.12	10.112283	B	0.0185
PCB 31 (BZ)	25:07	2556031	496481	1.197	10.00	10.195682	101.96	10.195682	B	0.0204
PCB 28 (BZ)	25:27	5038591	891936	1.197	20.00	20.087929	100.44	20.087929	BC20	0.0204
PCB 20 (BZ)		5038591		1.197	20.00	20.087929	100.44	20.087929	BC	0.0204
PCB 21 (BZ)	25:40	5322721	640006	1.202	20.00	21.129181	105.65	21.129181	BC	0.0203
PCB 33 (BZ)		5322721		1.202	20.00	21.129181	105.65	21.129181	BC21	0.0203
PCB 22 (BZ)	26:06	2504082	484130	1.124	10.00	10.633926	106.34	10.633926	B	0.0217
PCB 36 (BZ)	27:43	2649063	478581	1.107	10.00	11.425226	114.25	11.425226	B	0.0221

STL - Knoxville **IsoCalc Preliminary Sample Report**

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

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	11:04	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 39 (BZ)	28:07	2719757	487497	1.214	10.00	10.688539	106.89	10.688539	B	0.0201
PCB 38 (BZ)	28:43	2478143	457229	1.149	10.00	10.290479	102.90	10.290479	B	0.0212
PCB 35 (BZ)	29:12	2545707	434302	1.084	10.00	11.210223	112.10	11.210223		0.0225
PCB 37 (BZ)	29:38	2494593	426098	1.091	10.00	10.917416	109.17	10.917416	B	0.0224
Total Tetrachlorobiphenyl		70150924	8906766			450.932414		450.932414	B	0.988
13C12-PCB 54	22:33	1656648	358400	0.511	20.00	21.784595	108.92	21.784595		0.0178
13C12-PCB 52	27:18	2514306	491722	1.000	20.00	20.000000	100.00	20.000000		0.0118
13C12-PCB 79				1.099	10.00			ND		0.0106
13C12-PCB 81	36:32	2837855	498207	1.295	20.00	17.428854	87.14	17.428854		0.00911
13C12-PCB 77	37:06	2826860	495924	1.318	20.00	17.059362	85.30	17.059362		0.00895
PCB 54 (BZ)	22:34	1021003	227362	1.208	10.00	10.202272	102.02	10.202272		0.0421
PCB 50 (BZ)		2672068		0.920	20.00	20.513373	102.57	20.513373	BC	0.0399
PCB 53 (BZ)	24:50	2672068	483787	0.920	20.00	20.513373	102.57	20.513373	BC50	0.0399
PCB 45 (BZ)	25:36	2521482	302420	0.851	20.00	20.925379	104.63	20.925379	BC	0.0432
PCB 51 (BZ)		2521482		0.851	20.00	20.925379	104.63	20.925379	BC45	0.0432
PCB 46 (BZ)	25:51	1107900	216927	0.689	10.00	11.356242	113.56	11.356242		0.0533
PCB 52 (BZ)	27:19	1292009	266982	0.909	10.00	10.031962	100.32	10.031962	B	0.0404
PCB 73 (BZ)	27:28	2812194	348610	0.936	20.00	21.208358	106.04	21.208358	BC43	0.0392
PCB 43 (BZ)		2812194		0.936	20.00	21.208358	106.04	21.208358	BC	0.0392
PCB 69 (BZ)	27:48	3154163	424269	1.079	20.00	20.650352	103.25	20.650352	BC49	0.0340
PCB 49 (BZ)		3154163		1.079	20.00	20.650352	103.25	20.650352	BC	0.0340
PCB 48 (BZ)	28:07	1276890	252253	0.846	10.00	10.659555	106.60	10.659555		0.0434
PCB 65 (BZ)		4373890		1.004	30.00	30.762085	102.54	30.762085	BC44	0.0366
PCB 47 (BZ)		4373890		1.004	30.00	30.762085	102.54	30.762085	BC44	0.0366
PCB 44 (BZ)	28:22	4373890	728492	1.004	30.00	30.762085	102.54	30.762085	BC	0.0366
PCB 62 (BZ)		5541174		1.279	30.00	30.582784	101.94	30.582784	BC59	0.0287
PCB 75 (BZ)		5541174		1.279	30.00	30.582784	101.94	30.582784	BC59	0.0287
PCB 59 (BZ)	28:41	5541174	844006	1.279	30.00	30.582784	101.94	30.582784	BC	0.0287
PCB 42 (BZ)	28:54	1400863	253229	0.838	10.00	11.805543	118.06	11.805543		0.0438
PCB 41 (BZ)		4125292		0.872	30.00	33.416782	111.39	33.416782	BC40	0.0421
PCB 71 (BZ)		4125292		0.872	30.00	33.416782	111.39	33.416782	BC40	0.0421
PCB 40 (BZ)	29:25	4125292	575755	0.872	30.00	33.416782	111.39	33.416782	BC	0.0421
PCB 64 (BZ)	29:39	2049376	389398	1.341	10.00	10.794170	107.94	10.794170	B	0.0274
PCB 72 (BZ)	30:29	1883179	356978	1.203	10.00	11.049524	110.50	11.049524		0.0305
PCB 68 (BZ)	30:47	2067522	367166	1.294	10.00	11.279821	112.80	11.279821	B	0.0284
PCB 57 (BZ)	31:14	1833160	353334	1.203	10.00	10.760416	107.60	10.760416		0.0305
PCB 58 (BZ)	31:28	1866206	350070	1.235	10.00	10.670757	106.71	10.670757		0.0297
PCB 67 (BZ)	31:39	2051953	355785	1.394	10.00	10.390453	103.90	10.390453		0.0263
PCB 63 (BZ)	31:56	1950358	357789	1.331	10.00	10.343786	103.44	10.343786		0.0276
PCB 61 (BZ)		7837961		1.280	40.00	43.230751	108.08	43.230751	BC	0.0287
PCB 70 (BZ)		7837961		1.280	40.00	43.230751	108.08	43.230751	BC61	0.0287
PCB 76 (BZ)	32:16	7837961	764707	1.280	40.00	43.230751	108.08	43.230751	BC61	0.0287
PCB 74 (BZ)		7837961		1.280	40.00	43.230751	108.08	43.230751	BC61	0.0287
PCB 66 (BZ)	32:37	1883322	351620	1.254	10.00	10.608915	106.09	10.608915	B	0.0293
PCB 55 (BZ)	32:47	1953654	360581	1.137	10.00	12.133843	121.34	12.133843		0.0323
PCB 56 (BZ)	33:18	1906815	353099	1.202	10.00	11.199508	112.00	11.199508		0.0305
PCB 60 (BZ)	33:32	1877278	335181	1.128	10.00	11.752747	117.53	11.752747		0.0326
PCB 80 (BZ)	33:55	2043940	368875	1.301	10.00	11.089479	110.89	11.089479		0.0282
PCB 79 (BZ)	35:30	2105627	346213	1.449	10.00	10.264105	102.64	10.264105		0.0253

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	11:04	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 78 (BZ)	36:05	1879324	314149	1.109	10.00	11.968366	119.68	11.968366		0.0331
PCB 81 (BZ)	36:33	1877113	323255	1.251	10.00	10.570903	105.71	10.570903		0.0293
PCB 77 (BZ)	37:07	1785208	316066	1.179	10.00	10.710181	107.10	10.710181		0.0312
Total Pentachlorobiphenyl		51342177	7018492			513.196717		513.196717	B	1.81
13C12-PCB 104	28:16	1542990	311591	1.259	20.00	15.597818	77.99	15.597818		0.0252
13C12-PCB 95				0.738	10.00			ND		0.0398
13C12-PCB 101	34:19	1570889	288176	1.000	20.00	20.000000	100.00	20.000000		0.0318
13C12-PCB 111	37:04	1912827	356821	1.262	20.00	19.295899	96.48	19.295899		0.0252
13C12-PCB 123	39:06	3766057	671592	0.978	20.00	17.697452	88.49	17.697452		0.0125
13C12-PCB 118	39:26	4137853	725145	1.014	20.00	18.752862	93.76	18.752862		0.0121
13C12-PCB 114	39:59	3855274	679576	0.981	20.00	18.062665	90.31	18.062665		0.0125
13C12-PCB 105	40:39	3884698	692407	0.939	20.00	19.011606	95.06	19.011606		0.0130
13C12-PCB 127	42:07	4352114	747369	1.000	20.00	20.000000	100.00	20.000000		0.0122
13C12-PCB 126	43:48	3513762	601773	0.971	20.00	16.634001	83.17	16.634001		0.0126
PCB 104 (BZ)	28:17	974761	195456	1.157	10.00	10.921829	109.22	10.921829		0.0562
PCB 96 (BZ)	28:41	889065	175308	1.047	10.00	11.005791	110.06	11.005791		0.0621
PCB 103 (BZ)	30:40	741289	145875	0.859	10.00	11.181420	111.81	11.181420		0.0756
PCB 94 (BZ)	30:54	670570	126308	0.724	10.00	12.010592	120.11	12.010592		0.0898
PCB 95 (BZ)	31:21	703674	136352	0.817	10.00	11.170432	111.70	11.170432		0.0796
PCB 100 (BZ)	31:35	1464892	238909	0.836	20.00	22.713166	113.57	22.713166	C93	0.0777
PCB 93 (BZ)		1464892		0.836	20.00	22.713166	113.57	22.713166	C	0.0777
PCB 102 (BZ)	31:43	1516393	166496	0.848	20.00	23.168335	115.84	23.168335	C98	0.0766
PCB 98 (BZ)		1516393		0.848	20.00	23.168335	115.84	23.168335	C	0.0766
PCB 88 (BZ)	32:15	1451588	151881	0.791	20.00	23.781653	118.91	23.781653	C	0.0821
PCB 91 (BZ)		1451588		0.791	20.00	23.781653	118.91	23.781653	C88	0.0821
PCB 84 (BZ)	32:30	632999	118351	0.681	10.00	12.040070	120.40	12.040070		0.0954
PCB 89 (BZ)	32:58	693224	131903	0.718	10.00	12.509547	125.10	12.509547		0.0905
PCB 121 (BZ)	33:22	995511	187034	1.140	10.00	11.321279	113.21	11.321279		0.0570
PCB 92 (BZ)	33:46	719003	135761	0.819	10.00	11.373143	113.73	11.373143		0.0793
PCB 113 (BZ)	34:21	2571206	363758	0.979	30.00	34.057766	113.53	34.057766	C90	0.0664
PCB 90 (BZ)		2571206		0.979	30.00	34.057766	113.53	34.057766	C	0.0664
PCB 101 (BZ)		2571206		0.979	30.00	34.057766	113.53	34.057766	C90	0.0664
PCB 83 (BZ)		1366239		0.797	20.00	22.217723	111.09	22.217723	C	0.0815
PCB 99 (BZ)	34:58	1366239	157362	0.797	20.00	22.217723	111.09	22.217723	C83	0.0815
PCB 112 (BZ)	35:05	1002838	181518	1.110	10.00	11.710544	117.11	11.710544		0.0585
PCB 109 (BZ)/108 (IUPAC)	35:27	5185998	569928	0.991	60.00	67.801047	113.00	67.801047	C86	0.0656
PCB 86 (BZ)		5185998		0.991	60.00	67.801047	113.00	67.801047	C	0.0656
PCB 119 (BZ)		5185998		0.991	60.00	67.801047	113.00	67.801047	C86	0.0656
PCB 97 (BZ)		5185998		0.991	60.00	67.801047	113.00	67.801047	C86	0.0656
PCB 125 (BZ)		5185998		0.991	60.00	67.801047	113.00	67.801047	C86	0.0656
PCB 87 (BZ)		5185998		0.991	60.00	67.801047	113.00	67.801047	C86	0.0656
PCB 117 (BZ)		2620270		0.989	30.00	34.332181	114.44	34.332181	BC85	0.0657
PCB 116 (BZ)		2620270		0.989	30.00	34.332181	114.44	34.332181	BC85	0.0657
PCB 85 (BZ)	36:14	2620270	307411	0.989	30.00	34.332181	114.44	34.332181	BC	0.0657
PCB 110 (BZ)	36:24	2037574	206273	1.142	20.00	23.126161	115.63	23.126161	C	0.0569
PCB 115 (BZ)		2037574		1.142	20.00	23.126161	115.63	23.126161	C110	0.0569
PCB 82 (BZ)	36:43	653481	114002	0.679	10.00	12.474386	124.74	12.474386		0.0957
PCB 111 (BZ)	37:06	1000859	182842	1.195	10.00	10.855636	108.56	10.855636		0.0544
PCB 120 (BZ)	37:34	1018033	180425	1.179	10.00	11.193851	111.94	11.193851		0.0551

STL - Knoxville **IsoCalc Preliminary Sample Report**

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

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	11:04	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 124 (BZ)	38:45	3996767	721358	0.995	20.00	20.964059	104.82	20.964059	C108	0.0302
PCB 108 (BZ)/107 (IUPAC)		3996767		0.995	20.00	20.964059	104.82	20.964059	C	0.0302
PCB 107 (BZ)/109 (IUPAC)	39:00	1896690	360599	1.015	10.00	9.755723	97.56	9.755723		0.0296
PCB 123 (BZ)	39:07	2209290	386964	1.110	10.00	10.574212	105.74	10.574212	B	0.0272
PCB 106 (BZ)	39:14	2008436	357887	0.963	10.00	10.886473	108.86	10.886473		0.0312
PCB 118 (BZ)	39:27	2226077	383758	1.021	10.00	10.534869	105.35	10.534869	B	0.0273
PCB 122 (BZ)	39:48	1913246	346114	0.957	10.00	10.436556	104.37	10.436556		0.0314
PCB 114 (BZ)	40:00	2183057	374171	1.173	10.00	9.658847	96.59	9.658847		0.0254
PCB 105 (BZ)	40:40	2133219	370469	1.130	10.00	9.720444	97.20	9.720444	B	0.0259
PCB 127 (BZ)	42:10	1951999	340042	1.066	10.00	9.559203	95.59	9.559203		0.0282
PCB 126 (BZ)	43:49	1913929	304159	1.074	10.00	10.139778	101.40	10.139778		0.0313
Total Hexachlorobiphenyl		49657071	6275585			447.464382		447.464382	B	1.86
13C12-PCB 155	34:05	1576700	303004	1.013	20.00	19.817090	99.09	19.817090		0.0254
13C12-PCB 153				0.845	10.00			ND		0.0220
13C12-PCB 138	42:35	2486143	447525	1.000	20.00	20.000000	100.00	20.000000		0.0165
13C12-PCB 167	45:38	2806746	500937	1.250	20.00	18.062263	90.31	18.062263		0.0132
13C12-PCB 156	46:49	5746193	745637	1.237	40.00	37.371779	93.43	37.371779		0.0134
13C12-PCB 157								ND		0.000000
13C12-PCB 169	50:07	2058241	343510	1.164	20.00	14.225349	71.13	14.225349		0.0142
PCB 155 (BZ)	34:06	827203	161753	1.131	10.00	9.281382	92.81	9.281382		0.0575
PCB 152 (BZ)	34:19	830762	156096	1.067	10.00	9.879521	98.80	9.879521		0.0610
PCB 150 (BZ)	34:30	835735	156348	1.059	10.00	10.010203	100.10	10.010203		0.0614
PCB 136 (BZ)	34:52	799997	147488	1.009	10.00	10.057804	100.58	10.057804		0.0644
PCB 145 (BZ)	35:10	834443	159208	1.021	10.00	10.367865	103.68	10.367865		0.0637
PCB 148 (BZ)	36:41	586394	109741	0.738	10.00	10.076286	100.76	10.076286		0.0881
PCB 151 (BZ)	37:19	1172317	138272	0.732	20.00	20.313164	101.57	20.313164	C135	0.0888
PCB 135 (BZ)		1172317		0.732	20.00	20.313164	101.57	20.313164	C	0.0888
PCB 154 (BZ)	37:33	696209	128465	0.899	10.00	9.821294	98.21	9.821294		0.0723
PCB 144 (BZ)	37:53	617523	114921	0.757	10.00	10.344329	103.44	10.344329		0.0859
PCB 147 (BZ)	38:15	2359846	434664	0.825	20.00	21.557511	107.79	21.557511	BC	0.0600
PCB 149 (BZ)		2359846		0.825	20.00	21.557511	107.79	21.557511	BC147	0.0600
PCB 134 (BZ)		2099851		0.694	20.00	22.799896	114.00	22.799896	C	0.0714
PCB 143 (BZ)	38:33	2099851	218247	0.694	20.00	22.799896	114.00	22.799896	C134	0.0714
PCB 139 (BZ)	38:52	2385056	422497	0.828	20.00	21.715165	108.58	21.715165	C	0.0598
PCB 140 (BZ)		2385056		0.828	20.00	21.715165	108.58	21.715165	C139	0.0598
PCB 131 (BZ)	39:05	1017707	190567	0.687	10.00	11.176037	111.76	11.176037		0.0722
PCB 142 (BZ)	39:14	1023127	181854	0.705	10.00	10.943270	109.43	10.943270		0.0703
PCB 132 (BZ)	39:33	1059709	197167	0.708	10.00	11.279306	112.79	11.279306		0.0700
PCB 133 (BZ)	40:03	1088490	197286	0.777	10.00	10.555865	105.56	10.555865		0.0637
PCB 165 (BZ)	40:27	1456497	268352	0.989	10.00	11.097488	110.97	11.097488		0.0501
PCB 146 (BZ)	40:42	1251162	227203	0.862	10.00	10.940320	109.40	10.940320		0.0575
PCB 161 (BZ)	40:50	1585386	293175	1.128	10.00	10.597911	105.98	10.597911		0.0439
PCB 153 (BZ)	41:21	3011520	440441	1.070	20.00	21.225042	106.13	21.225042	C	0.0463
PCB 168 (BZ)		3011520		1.070	20.00	21.225042	106.13	21.225042	C153	0.0463
PCB 141 (BZ)	41:32	1167625	206233	0.738	10.00	11.923277	119.23	11.923277		0.0671
PCB 130 (BZ)	41:57	1028355	186613	0.694	10.00	11.165440	111.65	11.165440		0.0714
PCB 137 (BZ)		2733583		0.944	20.00	21.823845	109.12	21.823845	C	0.0525
PCB 164 (BZ)	42:17	2733583	274999	0.944	20.00	21.823845	109.12	21.823845	C137	0.0525
PCB 138 (BZ)	42:37	5335766	554496	0.922	40.00	43.640285	109.10	43.640285	BC129	0.0538

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	11:04	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 163 (BZ)		5335766		0.922	40.00	43.640285	109.10	43.640285	BC129	0.0538
PCB 129 (BZ)		5335766		0.922	40.00	43.640285	109.10	43.640285	BC	0.0538
PCB 160 (BZ)		5335766		0.922	40.00	43.640285	109.10	43.640285	BC129	0.0538
PCB 158 (BZ)	43:00	1714538	303262	1.197	10.00	10.801975	108.02	10.801975		0.0414
PCB 166 (BZ)	43:53	2728085	435550	0.941	20.00	21.862285	109.31	21.862285	C128	0.0527
PCB 128 (BZ)		2728085		0.941	20.00	21.862285	109.31	21.862285	C	0.0527
PCB 159 (BZ)	44:53	1542153	266838	1.100	10.00	10.569136	105.69	10.569136		0.0450
PCB 162 (BZ)	45:10	1646849	282663	1.110	10.00	11.182467	111.82	11.182467		0.0446
PCB 167 (BZ)	45:40	1613337	283460	1.150	10.00	10.000752	100.01	10.000752		0.0342
PCB 156 (BZ)	46:50	3299776	423929	1.113	20.00	20.629819	103.15	20.629819	C	0.0475
PCB 157 (BZ)		3299776		1.113	20.00	20.629819	103.15	20.629819	C156	0.0475
PCB 169 (BZ)	50:09	1308070	215529	1.294	10.00	9.825441	98.25	9.825441		0.0443
Total Heptachlorobiphenyl		19901145	2937407			241.301054		241.301054	B	0.963
13C12-PCB 188	39:54	1791757	337841	1.268	20.00	17.768417	88.84	17.768417		0.0173
13C12-PCB 178	43:01	1312408	239589	0.858	20.00	19.234938	96.17	19.234938		0.0256
13C12-PCB 180	48:12	1590409	287037	1.000	20.00	20.000000	100.00	20.000000		0.0219
13C12-PCB 170	49:29	1246640	220102	0.798	20.00	19.648638	98.24	19.648638		0.0275
13C12-PCB 189	52:39	3549921	611516	1.748	20.00	21.452185	107.26	21.452185		0.0105
PCB 188 (BZ)	39:57	959677	179626	1.072	10.00	9.990553	99.91	9.990553		0.0369
PCB 179 (BZ)	40:18	956895	175333	1.196	10.00	10.536502	105.37	10.536502		0.0400
PCB 184 (BZ)	40:48	887266	163383	1.185	10.00	9.859259	98.59	9.859259		0.0404
PCB 176 (BZ)	41:12	984843	179941	1.264	10.00	10.257180	102.57	10.257180		0.0379
PCB 186 (BZ)	41:40	938677	171261	1.204	10.00	10.266513	102.67	10.266513		0.0398
PCB 178 (BZ)	43:02	672633	124799	0.868	10.00	10.204985	102.05	10.204985		0.0551
PCB 175 (BZ)	43:41	728152	134341	0.934	10.00	10.263973	102.64	10.263973		0.0512
PCB 187 (BZ)	43:57	757961	138889	1.011	10.00	9.866480	98.66	9.866480		0.0473
PCB 182 (BZ)	44:10	769140	141600	0.989	10.00	10.238426	102.38	10.238426		0.0484
PCB 183 (BZ)	44:35	1484778	139082	0.939	20.00	20.826566	104.13	20.826566	C	0.0510
PCB 185 (BZ)		1484778		0.939	20.00	20.826566	104.13	20.826566	C183	0.0510
PCB 174 (BZ)	44:50	724464	130947	0.912	10.00	10.462767	104.63	10.462767		0.0525
PCB 177 (BZ)	45:16	682103	121463	0.866	10.00	10.369582	103.70	10.369582		0.0553
PCB 181 (BZ)	45:41	732410	133146	0.961	10.00	10.029837	100.30	10.029837		0.0498
PCB 171 (BZ)		1314498		0.828	20.00	20.903248	104.52	20.903248	C	0.0578
PCB 173 (BZ)	45:54	1314498	228697	0.828	20.00	20.903248	104.52	20.903248	C171	0.0578
PCB 172 (BZ)	47:34	624720	113200	0.829	10.00	9.915443	99.15	9.915443		0.0577
PCB 192 (BZ)	47:51	817013	151878	1.115	10.00	9.648699	96.49	9.648699		0.0429
PCB 193 (BZ)	48:11	1641118	219812	1.112	20.00	19.420968	97.10	19.420968	BC180	0.0430
PCB 180 (BZ)		1641118		1.112	20.00	19.420968	97.10	19.420968	BC	0.0430
PCB 191 (BZ)	48:34	902875	163827	1.264	10.00	9.400390	94.00	9.400390		0.0378
PCB 170 (BZ)	49:31	627774	110157	1.040	10.00	9.684355	96.84	9.684355		0.0583
PCB 190 (BZ)	50:03	911746	152226	1.213	10.00	9.898064	98.98	9.898064		0.0395
PCB 189 (BZ)	52:40	1782402	312308	1.085	10.00	9.257263	92.57	9.257263		0.0201
Total Octachlorobiphenyl		7703743	1243671			98.659870		98.659870		0.299
13C12-PCB 202	45:22	1440895	265860	0.910	20.00	19.907768	99.54	19.907768		0.0167
13C12-PCB 194	54:45	1893538	343149	1.000	20.00	20.000000	100.00	20.000000		0.0127
13C12-PCB 205	55:14	2579974	455166	1.413	20.00	19.281742	96.41	19.281742		0.00897
PCB 202 (BZ)	45:23	578838	108696	0.986	10.00	8.144652	81.45	8.144652		0.0307
PCB 200 (BZ)/201 (IUPAC)	46:19	645105	119536	1.114	10.00	8.034496	80.34	8.034496		0.0272
PCB 204 (BZ)	47:00	574169	103119	1.050	10.00	7.589667	75.90	7.589667		0.0288

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	11:04	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 197 (BZ)		1219532		1.067	20.00	15.859529	79.30	15.859529	C	0.0284
PCB 199 (BZ)/200 (IUPAC)	47:22	1219532	112678	1.067	20.00	15.859529	79.30	15.859529	C197	0.0284
PCB 198 (BZ)	50:10	837588	120569	0.737	20.00	15.766737	78.83	15.766737	C	0.0411
PCB 201 (BZ)/199 (IUPAC)		837588		0.737	20.00	15.766737	78.83	15.766737	C198	0.0411
PCB 196 (BZ)	50:51	406083	73218	0.742	10.00	7.596719	75.97	7.596719		0.0408
PCB 203 (BZ)	51:03	440026	78485	0.820	10.00	7.447832	74.48	7.447832		0.0369
PCB 195 (BZ)	52:24	886937	155379	0.719	10.00	9.557171	95.57	9.557171		0.0246
PCB 194 (BZ)	54:46	957312	164698	0.788	10.00	9.420342	94.20	9.420342		0.0225
PCB 205 (BZ)	55:15	1158153	207293	0.971	10.00	9.242726	92.43	9.242726		0.0182
Total Nonachlorobiphenyl		2052008	368913			25.709764		25.709764		0.0503
13C12-PCB 208	52:06	1621129	292373	1.130	20.00	15.152961	75.76	15.152961		0.0120
13C12-PCB 206	56:59	1187457	211466	0.773	20.00	16.215902	81.08	16.215902		0.0175
PCB 208 (BZ)	52:09	727634	129190	1.041	10.00	8.622376	86.22	8.622376		0.0154
PCB 207 (BZ)	53:05	771000	138626	1.284	10.00	8.552409	85.52	8.552409		0.0145
PCB 206 (BZ)	57:00	553374	101097	1.092	10.00	8.534979	85.35	8.534979		0.0204
13C12-PCB 209	58:35	1169155	204538	0.834	20.00	14.810695	74.05	14.810695		0.0211
PCB 209 (BZ)	58:37	480773	82780	1.053	10.00	7.810941	78.11	7.810941		0.0160

STL - Knoxville

IsoCalc Preliminary Peak Report

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

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 11:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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	313	203	125	81	1.54 *	/	
	PCB 1 (BZ)	13:16	13:13	3	1985893	627360	629476	200719	3.17	AVB/ABV	
	PCB 2 (BZ)	15:28	15:27	1	1840513	570943	476198	142435	3.22	ABV/ABV	
	PCB 3 (BZ)	15:40	15:38	2	1924078	594427	485356	150735	3.24	AVB/AVB	
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	308	675	123	270	0.46 *	/	
	13C12-PCB 1	13:15	13:13	2	3024390	949480	959643	297041	3.19	AVV/AVV	
	13C12-PCB 3	15:39	15:37	2	3105230	962851	786137	244669	3.23	ABV/ABV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	408	573	163	229	0.71 *	/	
	PCB 4 (BZ)	15:55	15:55	0	703461	452516	186793	116167	1.55	ABV/ABV	
	PCB 10 (BZ)	16:07	16:07	0	1054371	656010	262845	159251	1.61	AVV/AVV	
	PCB 9 (BZ)	18:03	18:05	-2	1105658	670892	270882	164491	1.65	ABV/ABV	
	PCB 7 (BZ)	18:14	18:15	-1	1121324	706266	244933	156343	1.59	AVV/AVV	
	PCB 6 (BZ)	18:30	18:31	-1	1148301	707047	255060	159220	1.62	AVV/AVV	
	PCB 5 (BZ)	18:50	18:50	0	1008409	621691	237542	148391	1.62	AVV/AVV	
	PCB 8 (BZ)	18:58	18:58	0	1177662	719835	260158	157936	1.64	AVB/AVB	
	PCB 14 (BZ)	20:42	20:43	-1	1318609	826255	272411	169933	1.60	ABV/ABV	
	PCB 11 (BZ)	21:36	21:37	-1	1176681	725846	236260	144230	1.62	ABV/ABV	
	PCB 12 (BZ)	21:57	21:58	-1	2285342	1396498	345965	209100	1.64	AVV/AVV	M
	PCB 15 (BZ)	22:17	22:14	3	1252565	777076	234209	142378	1.61	AVV/AVV	
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	238	198	95	79	1.20 *	/	
	13C12-PCB 4	15:54	15:54	0	1042630	636252	278238	172228	1.64	ABV/ABV	
	13C12-PCB 9	18:02	18:03	-1	2184073	1363728	510434	320699	1.60	AVV/ABV	
	13C12-PCB 15	22:16	22:14	2	1792499	1122112	359979	226503	1.60	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	480	425	192	170	1.13	/	
	PCB 19 (BZ)	19:17	19:16	1	391471	381689	94280	89152	1.03	ABV/ABV	
	PCB 30 (BZ)	21:15	21:16	-1	1031500	991997	180044	171959	1.04	ABV/ABV	
	PCB 17 (BZ)	21:42	21:42	0	444283	428575	97848	92748	1.04	AVV/ABV	
	PCB 27 (BZ)	21:56	21:57	-1	608230	596706	135148	134335	1.02	AVV/AVV	
	PCB 24 (BZ)	22:05	22:05	0	589775	581081	122828	122616	1.01	AVV/AVV	
	PCB 16 (BZ)	22:12	22:12	0	393731	382634	83055	80058	1.03	AVB/AVB	
	PCB 32 (BZ)	22:44	22:47	-3	655175	647649	140580	142818	1.01	AVV/AVV	
	PCB 34 (BZ)	24:04	24:06	-2	1203145	1147499	246187	238338	1.05	ABV/ABV	
	PCB 23 (BZ)	24:13	24:15	-2	1186456	1137937	242623	234870	1.04	AVB/AVB	
	PCB 26 (BZ)	24:33	24:35	-2	2488238	2392451	434973	413859	1.04	ABV/ABV	
	PCB 25 (BZ)	24:48	24:48	0	1431227	1368187	260292	254054	1.05	AVV/AVV	
	PCB 31 (BZ)	25:07	25:09	-2	1308574	1247457	254587	241894	1.05	AVV/AVV	
	PCB 28 (BZ)	25:27	25:27	0	2577124	2461467	459351	432585	1.05	AVV/AVV	
	PCB 21 (BZ)	25:40	25:38	2	2702815	2619906	325773	314233	1.03	AVV/AVV	
	PCB 22 (BZ)	26:06	26:07	-1	1275861	1228221	247008	237122	1.04	AVB/AVB	

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	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 11:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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)	27:43	27:45	-2	1356583	1292480	244529	234052	1.05	AVV/AVV	
	PCB 39 (BZ)	28:07	28:07	0	1389993	1329764	246111	241386	1.05	AVV/AVV	
	PCB 38 (BZ)	28:43	28:44	-1	1266275	1211868	235791	221438	1.04	AVV/ABV	
	PCB 35 (BZ)	29:12	29:12	0	1299202	1246505	226059	208243	1.04	AVV/AVV	
	PCB 37 (BZ)	29:38	29:37	1	1265578	1229015	215196	210902	1.03	AVV/AVV	
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	470	365	188	146	1.29 *	/	
	13C12-PCB 19	19:16	19:16	0	669348	645912	152451	142106	1.04	ABV/AVV	
	13C12-PCB 32	22:43	22:44	-1	1502610	1473486	326154	311488	1.02	AVV/AVV	
	13C12-PCB 31	25:06	25:07	-1	2909573	2690494	590317	532987	1.08	ABV/ABV	
	13C12-PCB 28	25:25	25:26	-1	2525022	2348823	491893	450179	1.08	AVV/AVV	
	13C12-PCB 37	29:36	29:36	0	2166818	2023570	381112	360039	1.07	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	420	493	168	197	0.85	/	
	PCB 54 (BZ)	22:34	22:34	0	446877	574126	100591	126771	0.78	ABV/ABV	
	PCB 53 (BZ)	24:50	24:51	-1	1189260	1482808	216226	267561	0.80	ABV/ABV	
	PCB 45 (BZ)	25:36	25:34	2	1121907	1399575	134324	168096	0.80	AVV/AVV	
	PCB 46 (BZ)	25:51	25:52	-1	491268	616632	97802	119125	0.80	AVV/AVV	
	PCB 52 (BZ)	27:19	27:22	-3	572747	719262	119761	147221	0.80	ABV/ABV	
	PCB 73 (BZ)	27:28	27:31	-3	1242756	1569438	154623	193987	0.79	AVV/AVV	
	PCB 69 (BZ)	27:48	27:48	0	1409122	1745041	189637	234632	0.81	AVB/AVB	
	PCB 48 (BZ)	28:07	28:10	-3	561913	714977	113406	138847	0.79	ABV/ABV	
	PCB 44 (BZ)	28:22	28:22	0	1934929	2438961	320716	407776	0.79	AVV/AVV	
	PCB 59 (BZ)	28:41	28:43	-2	2451322	3089852	374142	469864	0.79	AVV/AVV	
	PCB 42 (BZ)	28:54	28:56	-2	622489	778374	110713	142516	0.80	AVB/AVB	
	PCB 40 (BZ)	29:25	29:26	-1	1830611	2294681	257840	317915	0.80	ABV/ABV	
	PCB 64 (BZ)	29:39	29:40	-1	910177	1139199	172137	217261	0.80	AVV/AVV	
	PCB 72 (BZ)	30:29	30:33	-4	850209	1032970	160232	196746	0.82	ABV/ABV	
	PCB 68 (BZ)	30:47	30:50	-3	897951	1169571	165141	202025	0.77	AVV/AVV	
	PCB 57 (BZ)	31:14	31:16	-2	806019	1027141	154901	198433	0.78	ABV/ABV	
	PCB 58 (BZ)	31:28	31:29	-1	826884	1039322	157502	192568	0.80	AVV/AVV	
	PCB 67 (BZ)	31:39	31:39	0	903669	1148284	157604	198181	0.79	AVV/AVV	
	PCB 63 (BZ)	31:56	31:57	-1	862632	1087726	157671	200118	0.79	AVV/AVV	
	PCB 76 (BZ)	32:16	32:17	-1	3469750	4368211	335233	429474	0.79	AVV/AVV	M
	PCB 66 (BZ)	32:37	32:38	-1	841449	1041873	154221	197399	0.81	AVV/AVV	
	PCB 55 (BZ)	32:47	32:48	-1	865080	1088574	160576	200005	0.79	AVV/AVV	
	PCB 56 (BZ)	33:18	33:18	0	847931	1058884	157248	195851	0.80	ABV/ABV	
	PCB 60 (BZ)	33:32	33:32	0	831758	1045520	147110	188071	0.80	AVV/AVV	
	PCB 80 (BZ)	33:55	33:55	0	908276	1135664	162794	206081	0.80	AVV/AVV	
	PCB 79 (BZ)	35:30	35:30	0	931712	1173915	153939	192274	0.79	ABV/ABV	
	PCB 78 (BZ)	36:05	36:05	0	837474	1041850	140672	173477	0.80	ABV/AVV	
	PCB 81 (BZ)	36:33	36:32	1	830981	1046132	139634	183621	0.79	AVV/AVV	
	PCB 77 (BZ)	37:07	37:05	2	784255	1000953	142882	173184	0.78	ABV/ABB	
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**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	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 11:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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
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	22:33	22:33	0	732788	923860	159712	198688	0.79	ABV/ABV	
	13C12-PCB 52	27:18	27:20	-2	1108543	1405763	217261	274461	0.79	ABV/ABV	
	Unidentified	36:03	00:00	0	7293	7593	1404	1343	0.96 *	ABB/ABB	R
	13C12-PCB 81	36:32	36:30	2	1262092	1575763	224047	274160	0.80	ABV/ABV	
	13C12-PCB 77	37:06	37:04	2	1260935	1565925	218014	277910	0.81	ABV/ABV	
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	553	460	221	184	1.20 *	/	
	PCB 104 (BZ)	28:17	28:20	-3	598104	376657	121125	74331	1.59	ABV/ABV	
	PCB 96 (BZ)	28:41	28:45	-4	550619	338446	109352	65956	1.63	AVV/AVV	
	PCB 103 (BZ)	30:40	30:44	-4	453267	288022	89831	56044	1.57	ABV/ABV	
	PCB 94 (BZ)	30:54	30:57	-3	410658	259912	77769	48539	1.58	AVV/AVB	
	PCB 95 (BZ)	31:21	31:24	-3	430197	273477	83219	53133	1.57	ABV/ABV	
	PCB 100 (BZ)	31:35	31:37	-2	912807	552085	144677	94232	1.65	AVV/AVV	
	PCB 102 (BZ)	31:43	31:45	-2	903449	612944	99264	67232	1.47	AVV/AVV	
	PCB 88 (BZ)	32:15	32:12	3	882602	568986	93818	58063	1.55	ABV/ABV	
	PCB 84 (BZ)	32:30	32:29	1	383844	249155	71309	47042	1.54	AVV/AVV	
	PCB 89 (BZ)	32:58	33:00	-2	424665	268559	80732	51171	1.58	ABV/ABV	
	PCB 121 (BZ)	33:22	33:25	-3	601867	393644	114702	72332	1.53	AVB/AVB	
	PCB 92 (BZ)	33:46	33:48	-2	441517	277486	83256	52505	1.59	ABB/ABB	
	PCB 113 (BZ)	34:21	34:20	1	1560071	1011135	220340	143418	1.54	AVV/ABV	
	PCB 99 (BZ)	34:58	35:00	-2	838967	527272	98339	59023	1.59	ABV/ABV	
	PCB 112 (BZ)	35:05	35:06	-1	612575	390263	108821	72697	1.57	AVB/AVB	
	PCB 109 (BZ)/108 (IUPAC	35:27	35:28	-1	3175128	2010870	349436	220492	1.58	ABV/ABV	
	PCB 85 (BZ)	36:14	36:15	-1	1591101	1029169	185926	121485	1.55	AVV/ABV	
	PCB 110 (BZ)	36:24	36:23	1	1243193	794381	124662	81611	1.56	AVV/AVV	
	PCB 82 (BZ)	36:43	36:45	-2	403980	249501	70199	43803	1.62	AVB/AVB	
	PCB 111 (BZ)	37:06	37:07	-1	607630	393229	111474	71368	1.55	ABV/ABV	
	PCB 120 (BZ)	37:34	37:36	-2	622388	395645	110282	70143	1.57	AVB/AVV	
	PCB 124 (BZ)	38:45	38:46	-1	2464840	1531927	442484	278874	1.61	ABV/ABV	
	PCB 107 (BZ)/109 (IUPAC	39:00	39:00	0	1164303	732387	224369	136230	1.59	AVV/AVV	
	PCB 123 (BZ)	39:07	39:07	0	1398790	810500	233859	153105	1.73	AVV/AVV	
	PCB 106 (BZ)	39:14	39:16	-2	1198050	810386	220153	137734	1.48	AVV/AVV	
	PCB 118 (BZ)	39:27	39:28	-1	1373044	853033	234694	149064	1.61	AVB/AVB	
	PCB 122 (BZ)	39:48	39:49	-1	1172590	740656	209863	136251	1.58	ABV/ABV	
	PCB 114 (BZ)	40:00	40:01	-1	1352696	830361	230504	143667	1.63	AVV/AVV	
	PCB 105 (BZ)	40:40	40:40	0	1326122	807097	226397	144072	1.64	ABV/ABV	
	PCB 127 (BZ)	42:10	42:09	1	1196784	755215	207722	132320	1.58	AVV/AVV	
	PCB 126 (BZ)	43:49	43:45	4	1179126	734803	187879	116280	1.60	AVV/ABV	
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	260	198	104	79	1.32 *	/	
	13C12-PCB 104	28:16	28:19	-3	936065	606925	188876	122715	1.54	ABV/ABV	
	13C12-PCB 101	34:19	34:22	-3	964534	606355	175542	112634	1.59	AVV/AVV	
	13C12-PCB 111	37:04	37:06	-2	1163015	749812	213030	143791	1.55	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 (Solid/Air Table 4)

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 11:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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 123	39:06	39:06	0	2320484	1445573	413522	258070	1.61	ABV/ABV	
	13C12-PCB 118	39:26	39:26	0	2560320	1577533	450814	274331	1.62	AVV/AVV	
	13C12-PCB 114	39:59	39:59	0	2389138	1466136	422008	257568	1.63	AVV/AVV	
	13C12-PCB 105	40:39	40:38	1	2397404	1487294	427908	264499	1.61	ABV/ABV	
	13C12-PCB 127	42:07	42:07	0	2697274	1654840	465956	281413	1.63	ABV/ABV	
	13C12-PCB 126	43:48	43:45	3	2166686	1347076	368660	233113	1.61	ABV/ABV	
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	Noise	00:00	00:00	0	563	423	225	169	1.33	/	
	PCB 155 (BZ)	34:06	34:10	-4	452906	374297	89645	72108	1.21	ABV/ABV	M
	PCB 152 (BZ)	34:19	34:23	-4	455268	375494	87248	68848	1.21	AVV/AVV	M
	PCB 150 (BZ)	34:30	34:32	-2	455351	380384	86544	69804	1.20	AVV/AVV	
	PCB 136 (BZ)	34:52	34:55	-3	440659	359338	81233	66255	1.23	AVV/AVV	
	PCB 145 (BZ)	35:10	35:13	-3	457758	376685	88105	71103	1.22	AVB/AVB	
	PCB 148 (BZ)	36:41	36:45	-4	317529	268865	61275	48466	1.18	ABV/ABV	M
	PCB 151 (BZ)	37:19	37:20	-1	640858	531459	76368	61904	1.21	ABV/ABV	
	PCB 154 (BZ)	37:33	37:36	-3	375354	320855	69048	59417	1.17	AVB/AVV	
	PCB 144 (BZ)	37:53	37:56	-3	335560	281963	64145	50776	1.19	ABB/AVB	
	PCB 147 (BZ)	38:15	38:17	-2	1326238	1033608	246215	188449	1.28	ABV/ABV	
	PCB 143 (BZ)	38:33	38:36	-3	1171007	928844	121548	96699	1.26	AVV/AVV	
	PCB 139 (BZ)	38:52	38:54	-2	1333213	1051843	237295	185202	1.27	AVV/AVV	
	PCB 131 (BZ)	39:05	39:06	-1	573034	444673	109219	81348	1.29	AVV/AVV	
	PCB 142 (BZ)	39:14	39:17	-3	571113	452014	101832	80022	1.26	AVV/AVV	
	PCB 132 (BZ)	39:33	39:34	-1	596560	463149	110536	86631	1.29	AVB/AVB	
	PCB 133 (BZ)	40:03	40:05	-2	610902	477588	112112	85174	1.28	ABV/ABV	
	PCB 165 (BZ)	40:27	40:29	-2	823386	633111	151030	117322	1.30	AVV/AVV	
	PCB 146 (BZ)	40:42	40:43	-1	702669	548493	127550	99653	1.28	AVV/AVV	
	PCB 161 (BZ)	40:50	40:53	-3	904266	681120	165784	127391	1.33	AVB/AVB	
	PCB 153 (BZ)	41:21	41:22	-1	1699030	1312490	250734	189707	1.29	ABV/ABV	
	PCB 141 (BZ)	41:32	41:33	-1	656933	510692	114163	92070	1.29	AVV/AVB	
	PCB 130 (BZ)	41:57	41:58	-1	583304	445051	104354	82259	1.31	ABV/ABV	
	PCB 164 (BZ)	42:17	42:18	-1	1545030	1188553	156391	118608	1.30	AVV/AVV	
	PCB 138 (BZ)	42:37	42:36	1	3001934	2333832	309989	244507	1.29	AVV/AVV	
	PCB 158 (BZ)	43:00	43:00	0	967325	747213	169852	133410	1.29	AVB/AVB	
	PCB 166 (BZ)	43:53	43:52	1	1543137	1184948	245065	190485	1.30	AVV/AVV	
	PCB 159 (BZ)	44:53	44:53	0	875364	666789	153756	113082	1.31	AVV/AVV	
	PCB 162 (BZ)	45:10	45:10	0	931253	715596	157831	124832	1.30	AVV/AVV	
	PCB 167 (BZ)	45:40	45:39	1	911070	702267	159981	123479	1.30	ABB/ABB	
	PCB 156 (BZ)	46:50	46:48	2	1862749	1437027	240176	183753	1.30	ABV/ABV	
	PCB 169 (BZ)	50:09	50:04	5	757097	550973	124800	90729	1.37	ABV/ABV	M
372					**371.8817**	**373.8788**	**371.8817**	**373.8788**	**1.05-1.43**		
	Noise	00:00	00:00	0	188	183	75	73	1.03 *	/	
	13C12-PCB 155	34:05	34:08	-3	861661	715039	165915	137089	1.21	ABV/ABV	
	13C12-PCB 138	42:35	42:35	0	1399806	1086337	250667	196858	1.29	ABV/ABV	
	Unidentified	43:00	00:00	0	14786	9380	3482	1870	1.58 *	ABB/ABB	R

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	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 11:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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**	
	13C12-PCB 167	45:38	45:37	1	1592874	1213872	283073	217864	1.31	AVV/ABV
	13C12-PCB 156	46:49	46:48	1	3246222	2499971	423440	322197	1.30	ABV/AVV
	13C12-PCB 169	50:07	50:04	3	1161899	896342	192958	150552	1.30	ABV/ABV
394					**393.8025**	**395.7995**	**393.8025**	**395.7995**	**0.89-1.21**	
	Noise	00:00	00:00	0	375	293	150	117	1.28 *	/
	PCB 188 (BZ)	39:57	39:59	-2	490563	469114	92549	87077	1.05	ABV/ABV
	PCB 179 (BZ)	40:18	40:20	-2	487629	469266	87913	87420	1.04	AVV/AVV
	PCB 184 (BZ)	40:48	40:52	-4	451066	436200	83694	79689	1.03	AVV/AVV
	PCB 176 (BZ)	41:12	41:14	-2	504296	480547	90406	89535	1.05	AVV/AVV
	PCB 186 (BZ)	41:40	41:42	-2	474463	464214	85128	86133	1.02	AVB/ABV
	PCB 178 (BZ)	43:02	43:05	-3	349329	323304	62796	62003	1.08	ABV/ABV
	PCB 175 (BZ)	43:41	43:43	-2	373090	355062	67897	66444	1.05	ABV/ABV
	PCB 187 (BZ)	43:57	43:59	-2	390227	367734	71886	67003	1.06	AVV/AVV
	PCB 182 (BZ)	44:10	44:10	0	390137	379003	71103	70497	1.03	AVB/AVB
	PCB 183 (BZ)	44:35	44:37	-2	762343	722435	72870	66212	1.06	ABV/ABV
	PCB 174 (BZ)	44:50	44:49	1	365567	358897	66673	64274	1.02	AVB/AVB
	PCB 177 (BZ)	45:16	45:18	-2	347607	334496	62086	59377	1.04	ABB/ABB
	PCB 181 (BZ)	45:41	45:42	-1	374596	357814	67324	65822	1.05	ABV/ABV
	PCB 173 (BZ)	45:54	45:53	1	673281	641217	117678	111019	1.05	AVB/AVB
	PCB 172 (BZ)	47:34	47:34	0	316809	307911	57341	55859	1.03	ABB/ABB
	PCB 192 (BZ)	47:51	47:51	0	417327	399686	78695	73183	1.04	ABV/ABV
	PCB 193 (BZ)	48:11	48:09	2	844491	796627	113038	106774	1.06	AVB/AVB
	PCB 191 (BZ)	48:34	48:35	-1	472988	429887	86000	77827	1.10	ABB/ABB
	PCB 170 (BZ)	49:31	49:30	1	326920	300854	57485	52672	1.09	ABV/ABV
	PCB 190 (BZ)	50:03	50:02	1	471782	439964	77091	75135	1.07	ABB/ABV
	PCB 189 (BZ)	52:40	52:38	2	916989	865413	158311	153997	1.06	ABV/ABV
406					**405.8428**	**407.8398**	**405.8428**	**407.8398**	**0.89-1.21**	
	Noise	00:00	00:00	0	153	163	61	65	0.94	/
	13C12-PCB 188	39:54	39:58	-4	915521	876236	172074	165767	1.04	ABV/ABV
	13C12-PCB 178	43:01	43:02	-1	670769	641639	122319	117270	1.05	ABV/ABV
	13C12-PCB 180	48:12	48:12	0	817556	772853	146275	140762	1.06	ABV/ABV
	13C12-PCB 170	49:29	49:28	1	631710	614930	113074	107028	1.03	AVV/AVV
	13C12-PCB 189	52:39	52:37	2	1834318	1715603	313149	298367	1.07	ABV/ABV
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**	
	Noise	00:00	00:00	0	190	213	76	85	0.89	/
	PCB 202 (BZ)	45:23	45:24	-1	272638	306200	50955	57741	0.89	ABV/ABV
	PCB 200 (BZ)/201 (IUPAC	46:19	46:21	-2	302002	343103	55675	63861	0.88	ABV/ABV
	PCB 204 (BZ)	47:00	47:02	-2	263420	310749	47380	55739	0.85	ABV/ABV
	PCB 199 (BZ)/200 (IUPAC	47:22	47:23	-1	566924	652608	52900	59778	0.87	AVB/AVV
	PCB 198 (BZ)	50:10	50:10	0	386382	451206	55370	65199	0.86	ABV/ABV
	PCB 196 (BZ)	50:51	50:52	-1	185952	220131	34527	38691	0.84	ABV/ABV
	PCB 203 (BZ)	51:03	51:04	-1	209312	230714	36658	41827	0.91	AVB/AVB
	PCB 195 (BZ)	52:24	52:25	-1	422523	464414	74218	81161	0.91	AVV/AVV
	PCB 194 (BZ)	54:46	54:47	-1	452419	504893	78949	85749	0.90	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 (Solid/Air Table 4)

IsoCalc

Workorder	H2W5K1AC	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kc.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90288	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 11:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**Diluton Factor**	1.00	**Code**	IE5

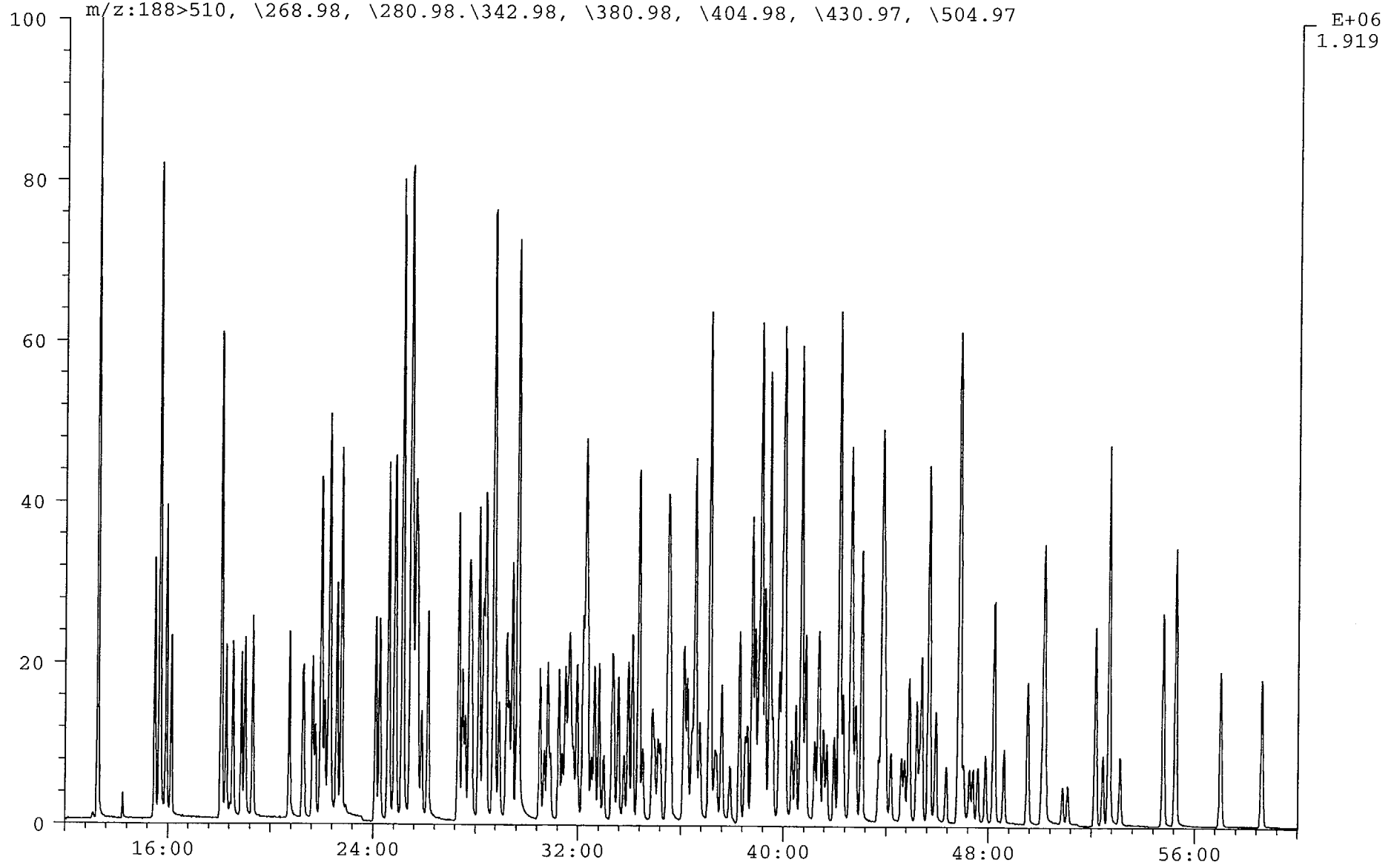
View Small Peaks? False **View deleted peaks?** False

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 205 (BZ)	55:15	55:14	1	546083	612070	97031	110262	0.89	ABB/ABB
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**	
	Noise	00:00	00:00	0	108	110	43	44	0.98	/
	13C12-PCB 202	45:22	45:23	-1	674376	766519	126578	139282	0.88	ABV/ABV
	13C12-PCB 194	54:45	54:44	1	911835	981703	164899	178250	0.93	ABV/ABV
	13C12-PCB 205	55:14	55:13	1	1240499	1339475	219188	235978	0.93	AVV/ABV
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**	
	Noise	00:00	00:00	0	125	110	50	44	1.14 *	/
	PCB 208 (BZ)	52:09	52:10	-1	319564	408070	56865	72325	0.78	ABV/ABV
	PCB 207 (BZ)	53:05	53:07	-2	334360	436640	60255	78371	0.77	ABV/AVV
	PCB 206 (BZ)	57:00	56:58	2	240978	312396	43167	57930	0.77	ABV/ABV
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**	
	Noise	00:00	00:00	0	115	118	46	47	0.98 *	/
	13C12-PCB 208	52:06	52:08	-2	721065	900064	129857	162516	0.80	ABV/ABV
	13C12-PCB 206	56:59	56:58	1	514432	673025	91666	119800	0.76	ABV/ABV
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**	
	Noise	00:00	00:00	0	93	80	37	32	1.16 *	/
	PCB 209 (BZ)	58:37	58:35	2	194411	286362	32923	49857	0.68	ABV/ABV
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**	
	Noise	00:00	00:00	0	165	138	66	55	1.20 *	/
	13C12-PCB 209	58:35	58:35	0	473238	695917	81140	123398	0.68	ABV/ABV

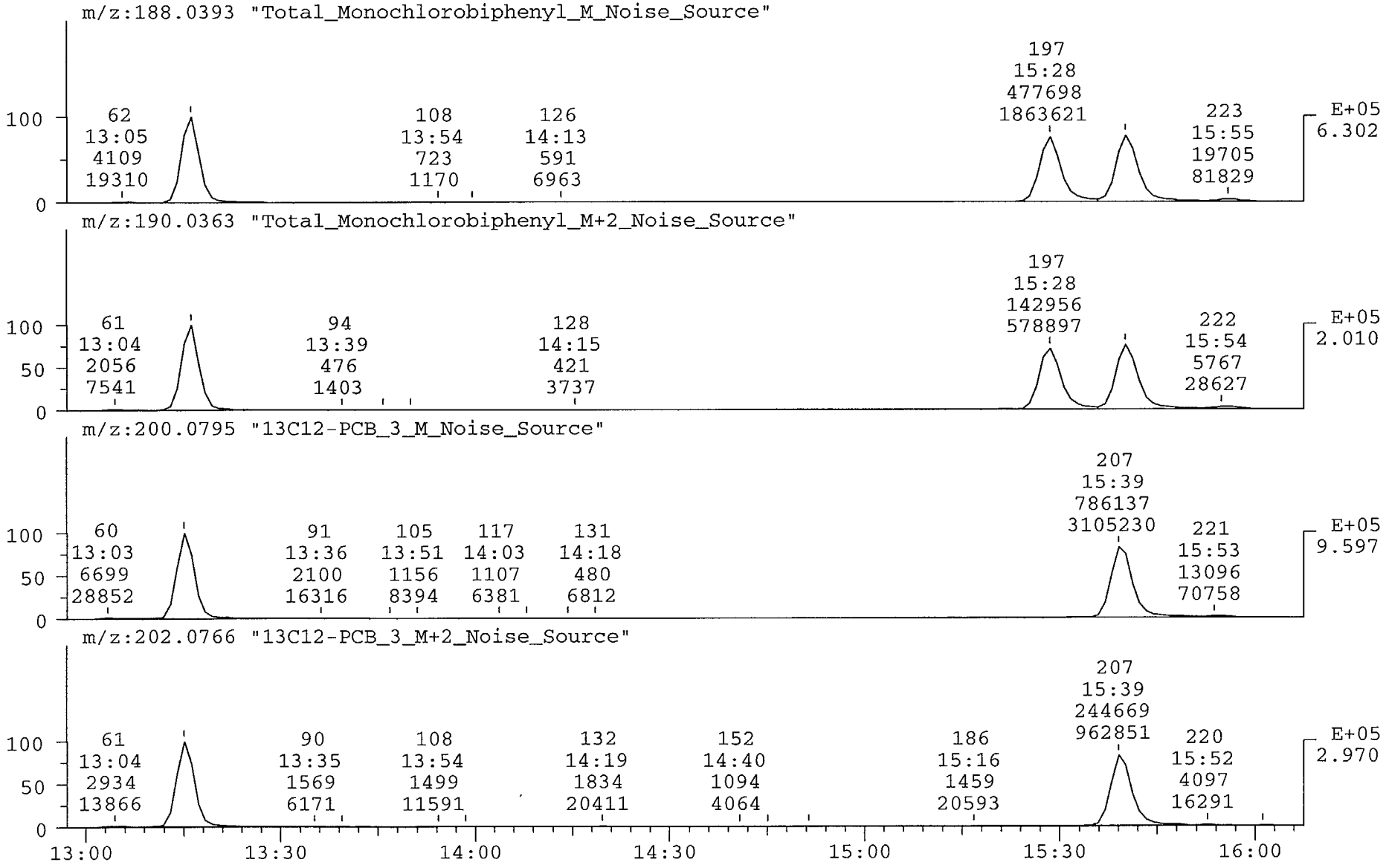
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: aph2w5kc 25-Apr-06 Elapse: 45:26 1891
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2 > 2715 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

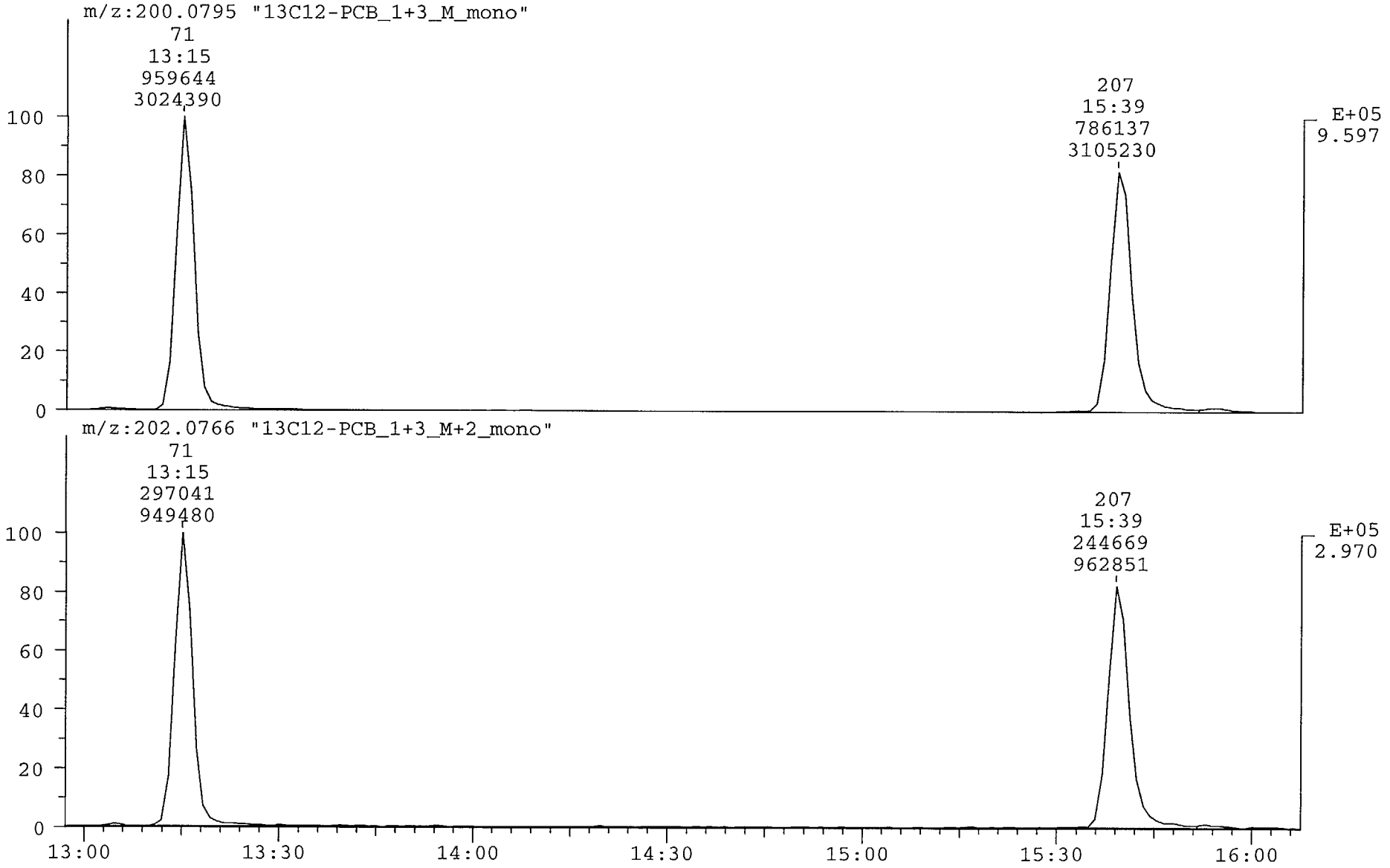
Int BFW 4/25/06
Calc BFW 4/26/06
QC 4/26/06
Rev DCS 4/27/06



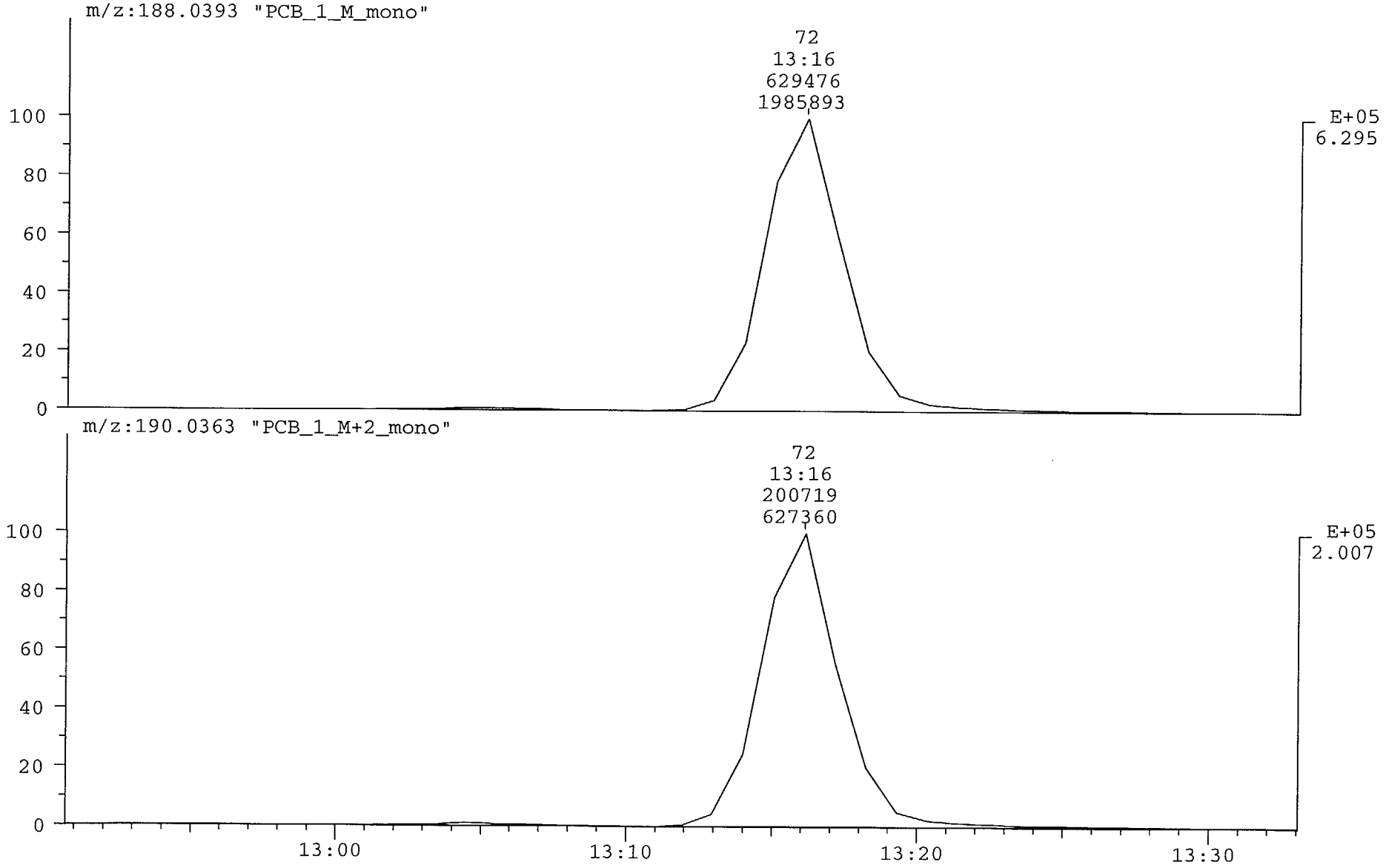
CHRO: aph2w5kc 25-Apr-06 Elapse: 14:32.3 144
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 54 > 234 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



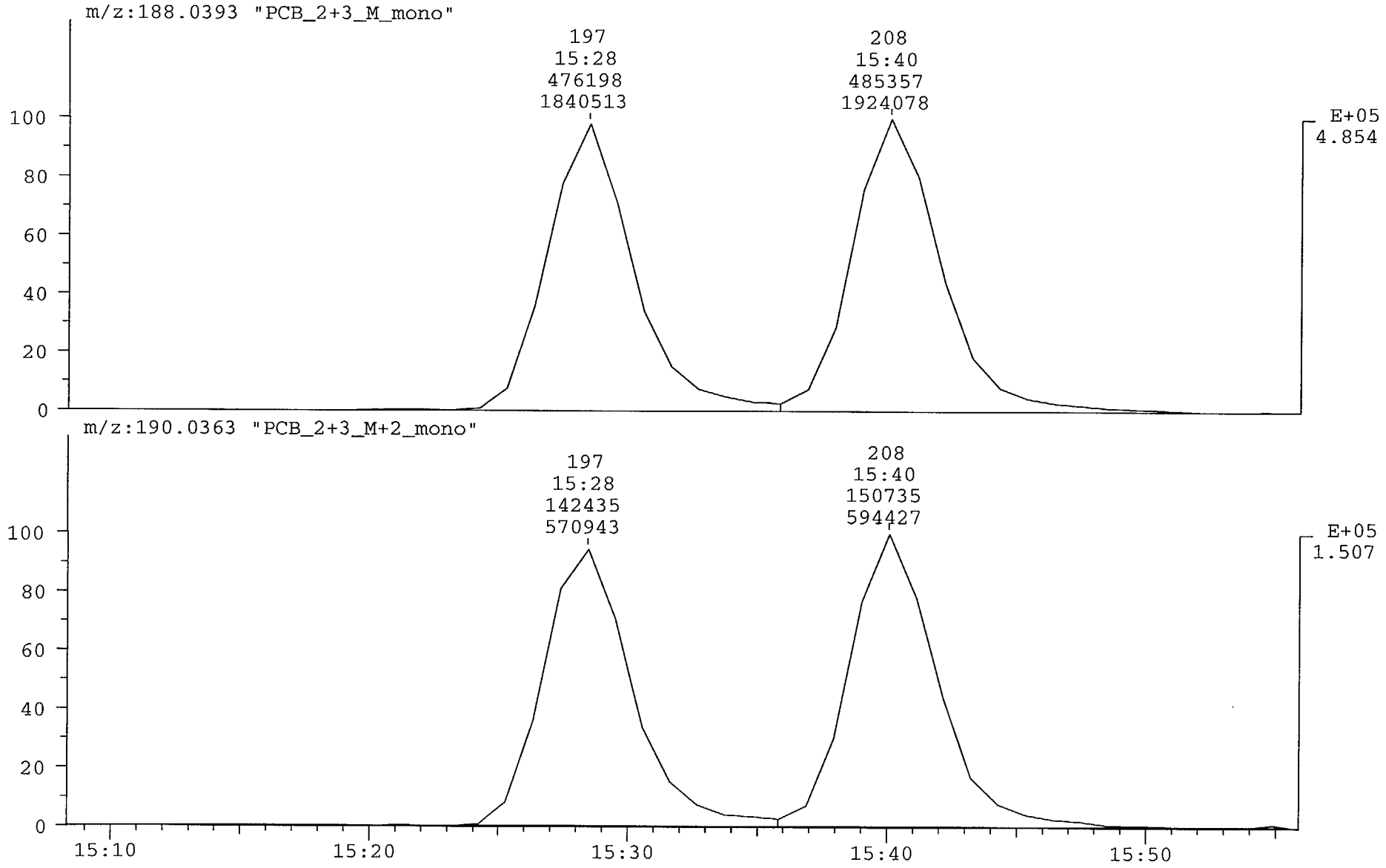
CHRO: aph2w5kc 25-Apr-06 Elapse: 14:32.3 144
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 54 > 234 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



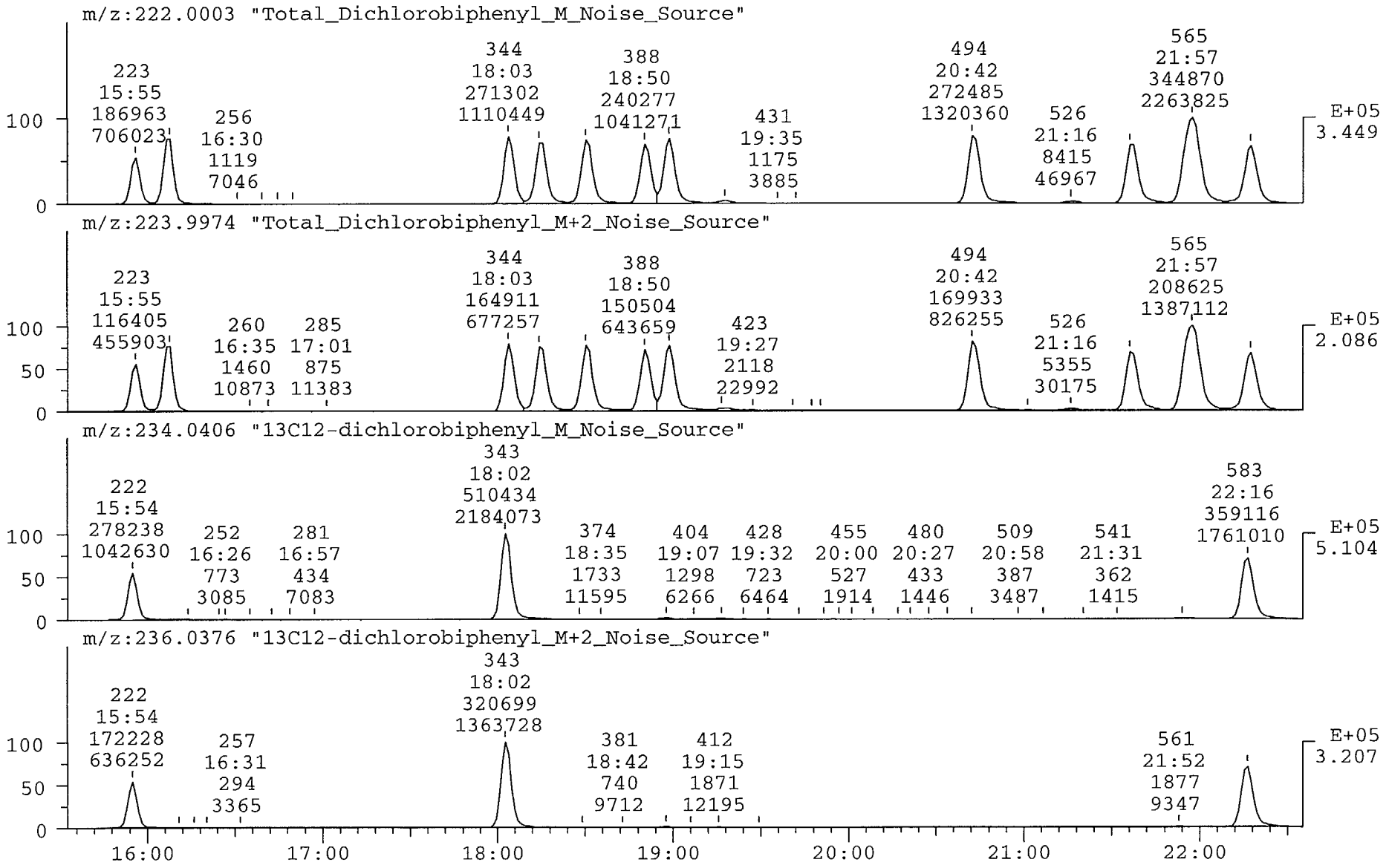
```
CHRO:  aph2w5kc                                25-Apr-06   Elapse:  13:11.9      68
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                  Start :  11:04:47   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050C               Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   48 > 88               Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



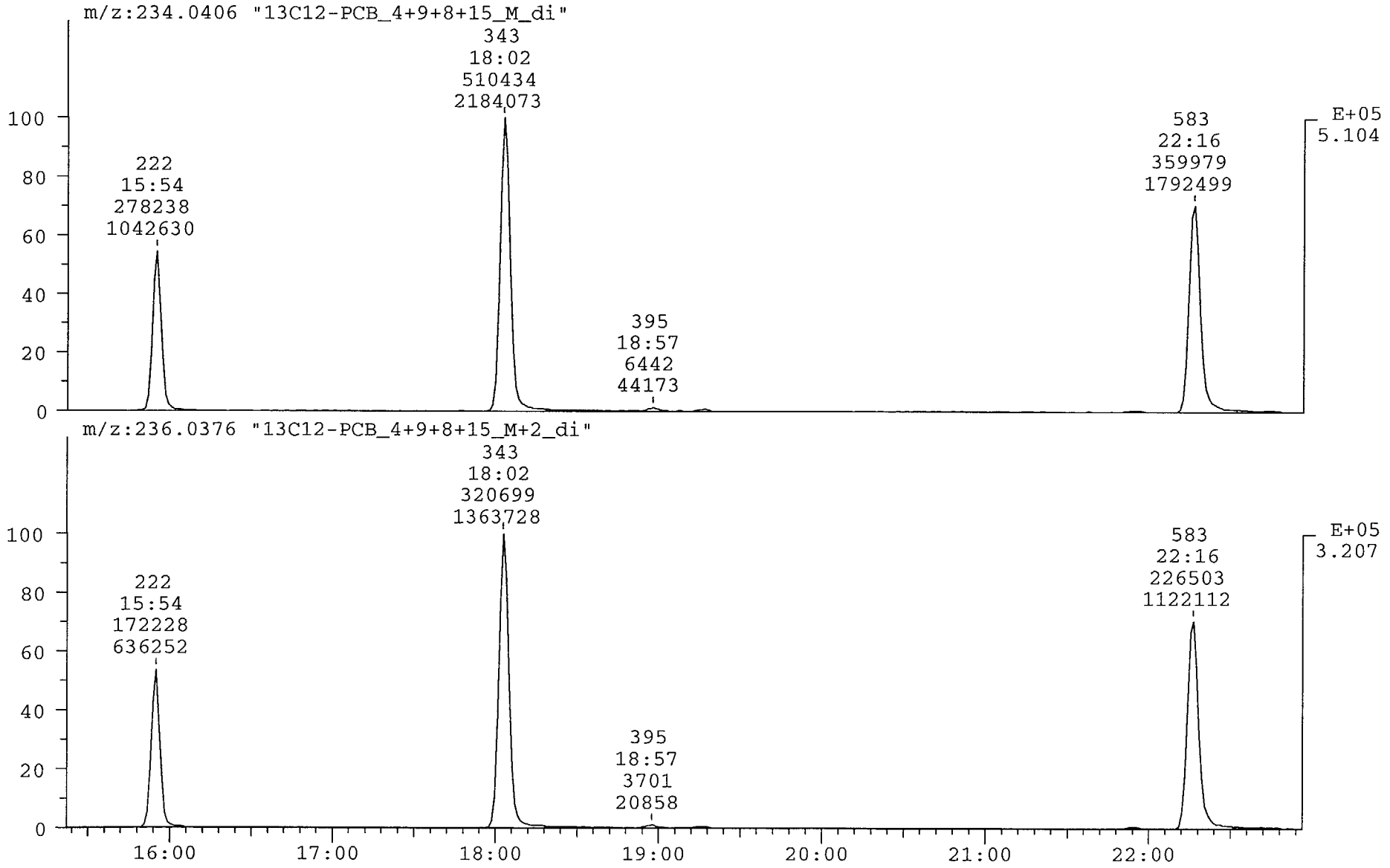
CHRO: aph2w5kc 25-Apr-06 Elapse: 15:34.7 203
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 178 > 223 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



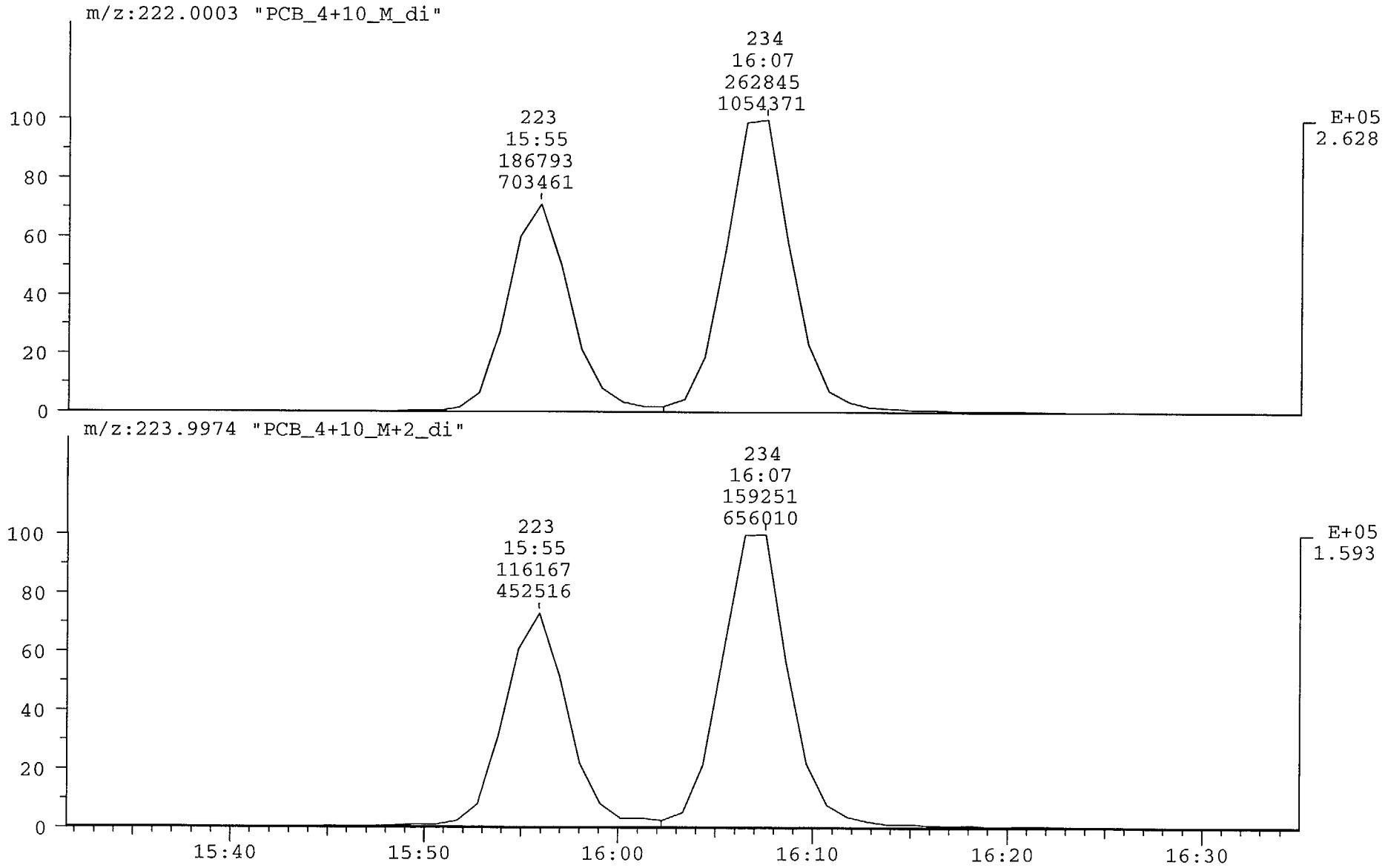
CHRO: aph2w5kc 25-Apr-06 Elapse: 19:03.9 401
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 201 > 601 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



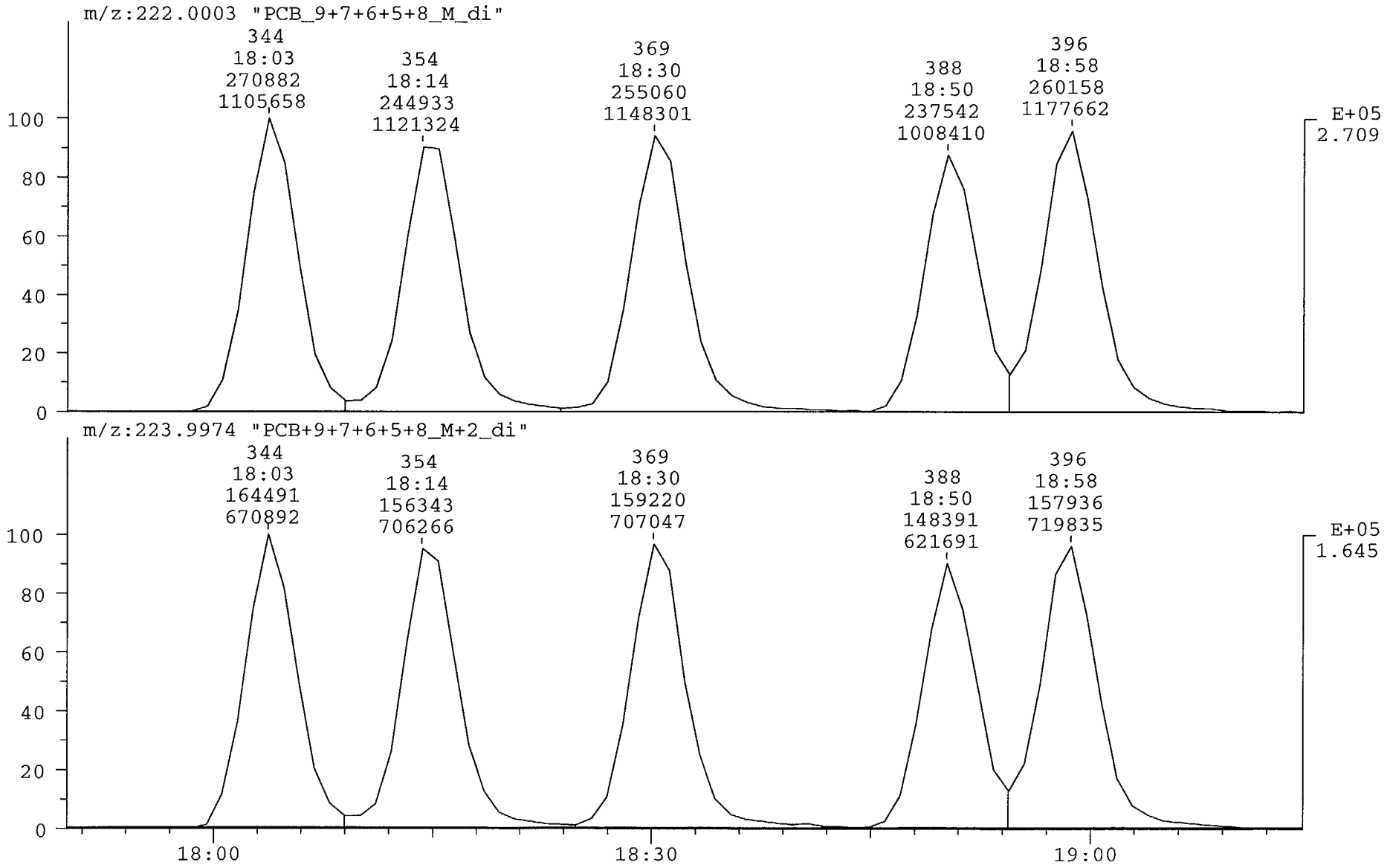
CHRO: aph2w5kc 25-Apr-06 Elapse: 19:03.9 401
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 191 > 621 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



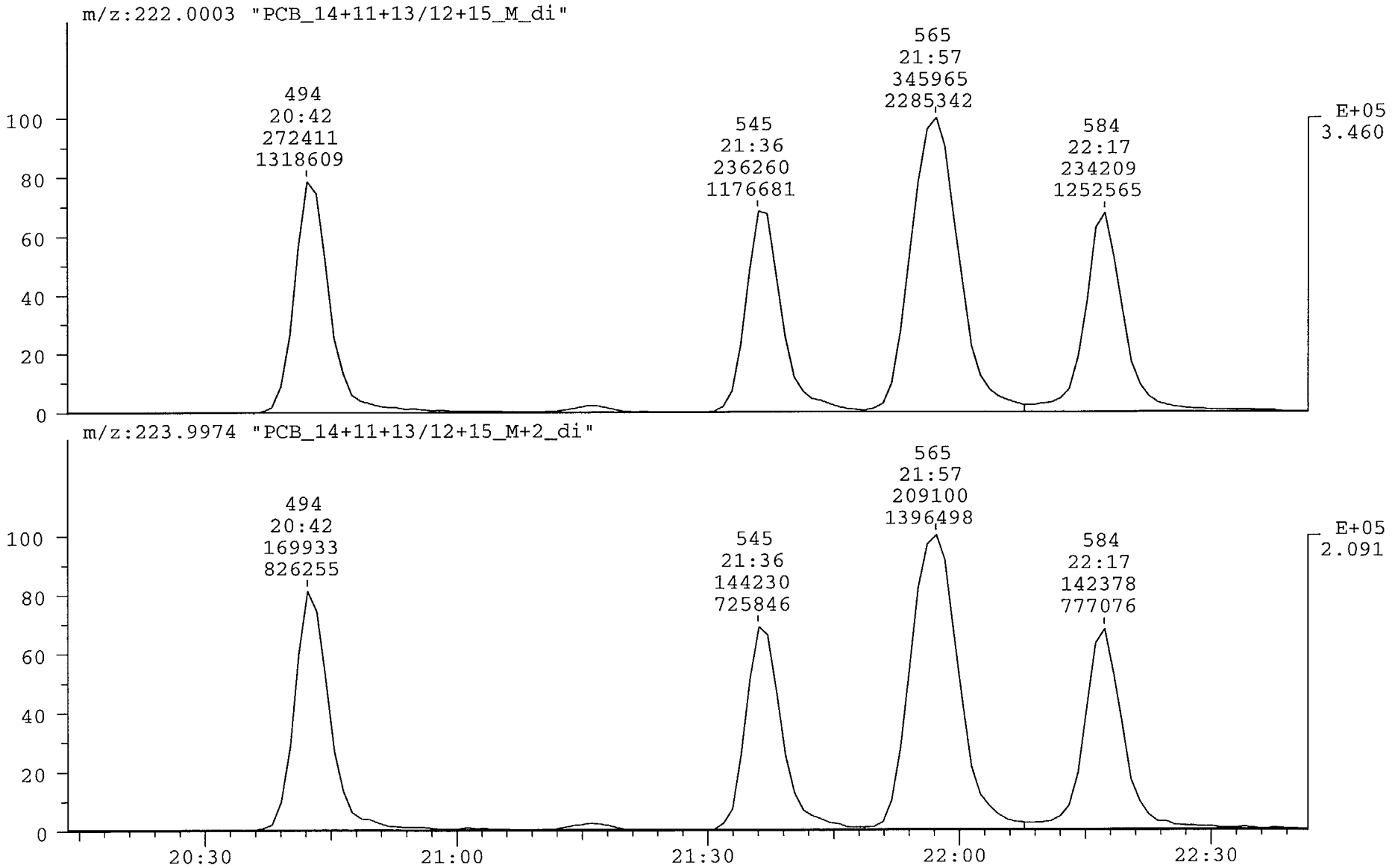
CHRO: aph2w5kc 25-Apr-06 Elapse: 16:03.3 230
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 200 > 260 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



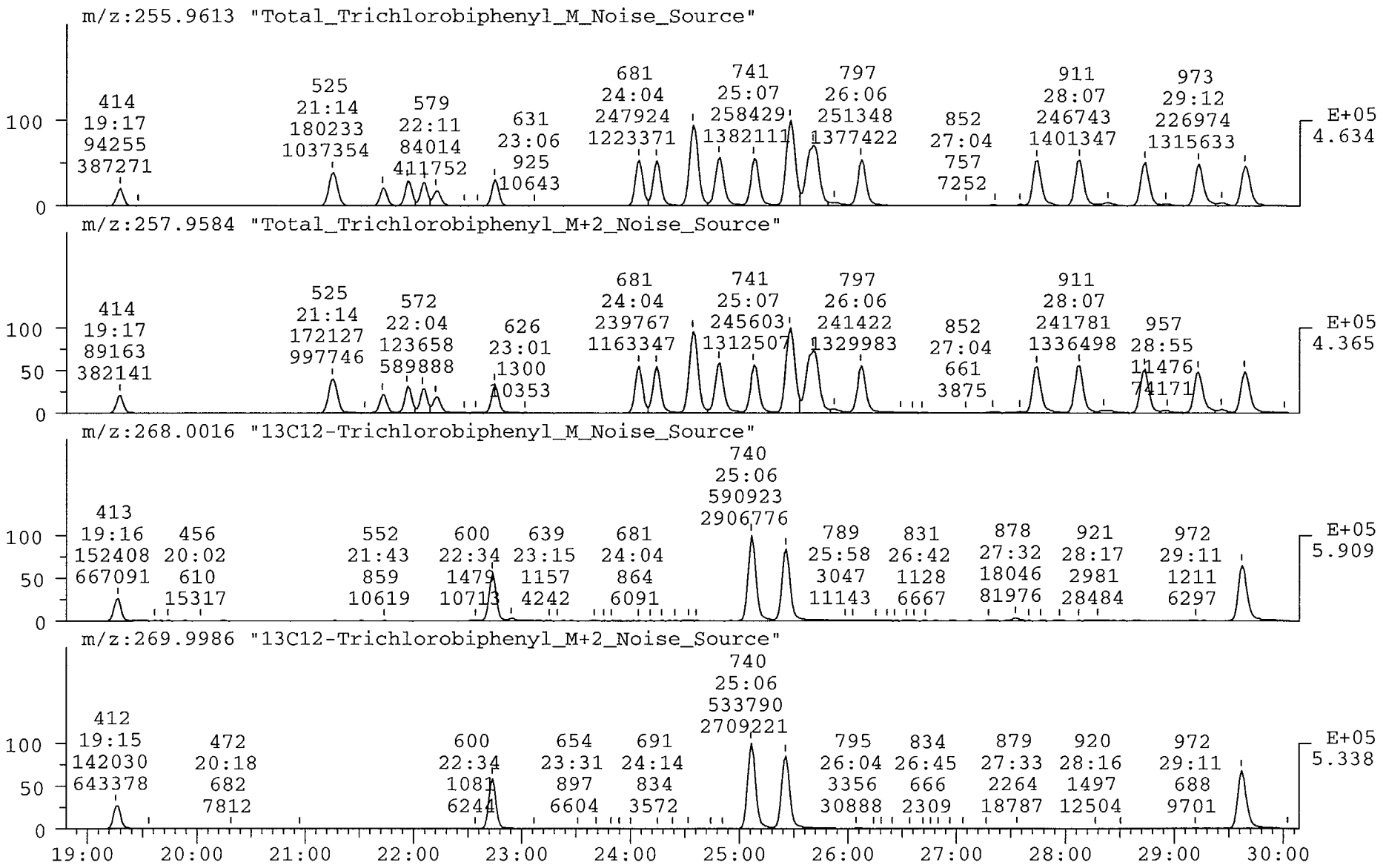
CHRO: aph2w5kc 25-Apr-06 Elapse: 18:34.3 373
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 331 > 411 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



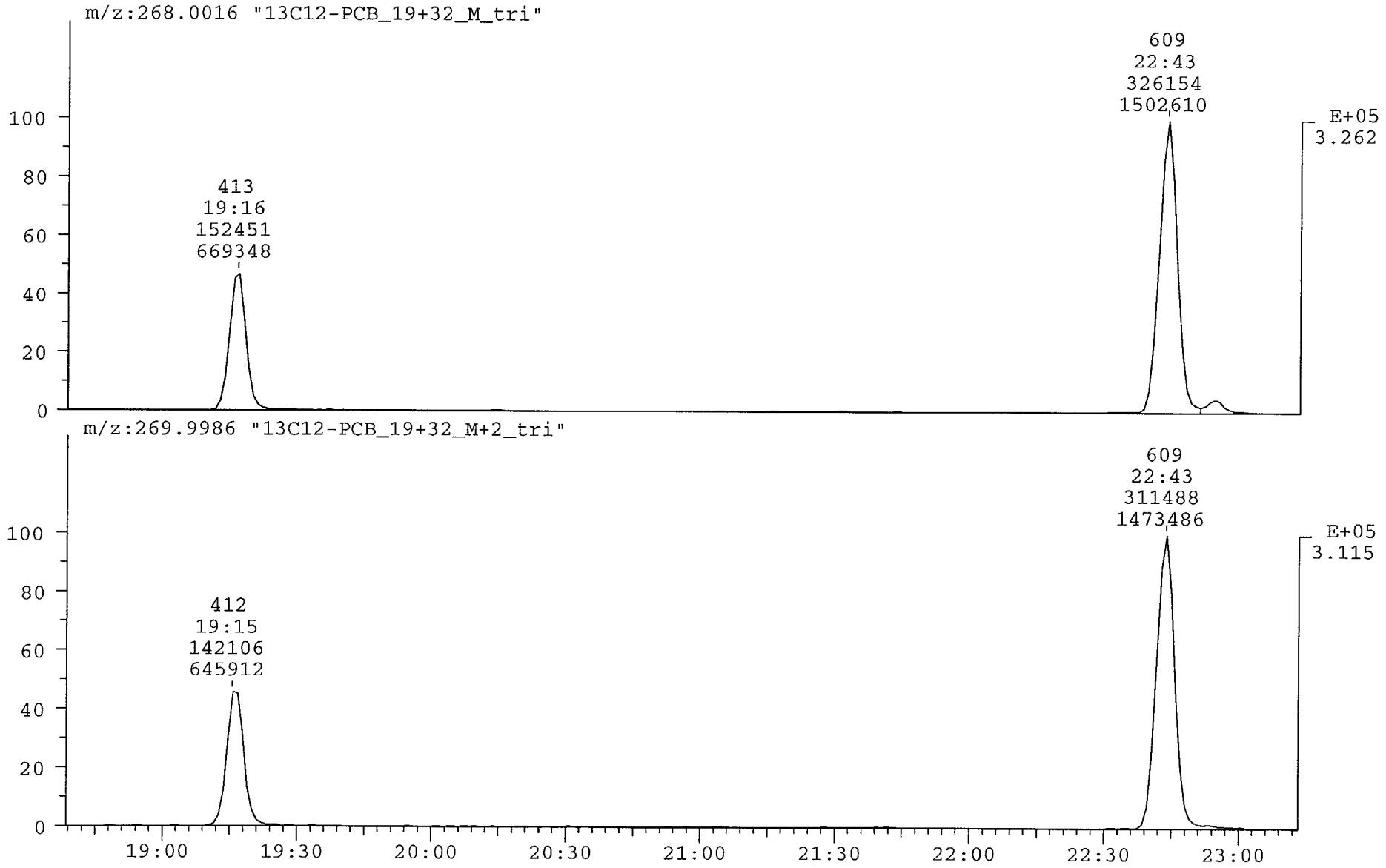
CHRO: aph2w5kc 25-Apr-06 Elapse: 21:27.6 537
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 467 > 607 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



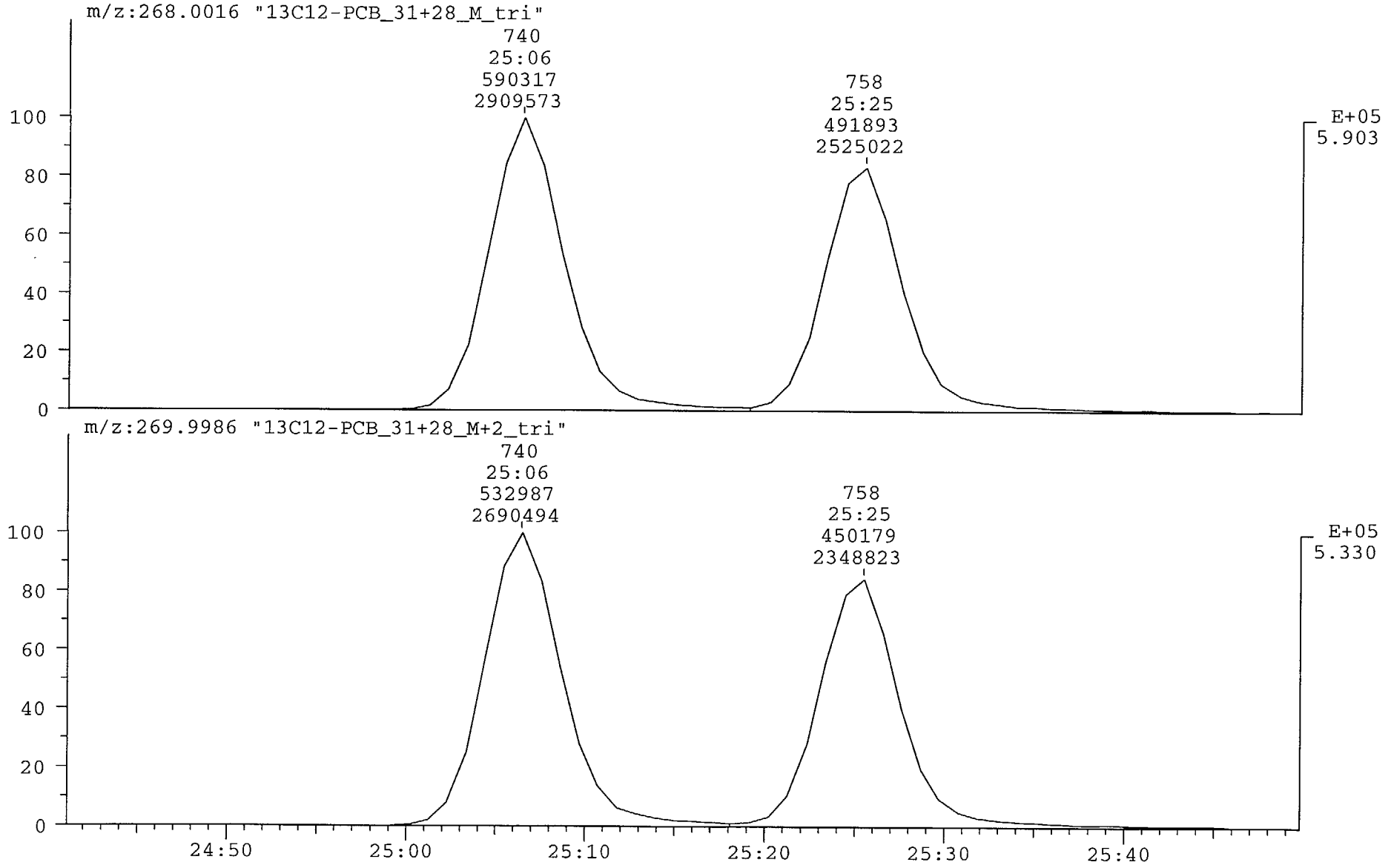
CHRO: aph2w5kc 25-Apr-06 Elapse: 24:30.5 706
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 386 > 1026 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



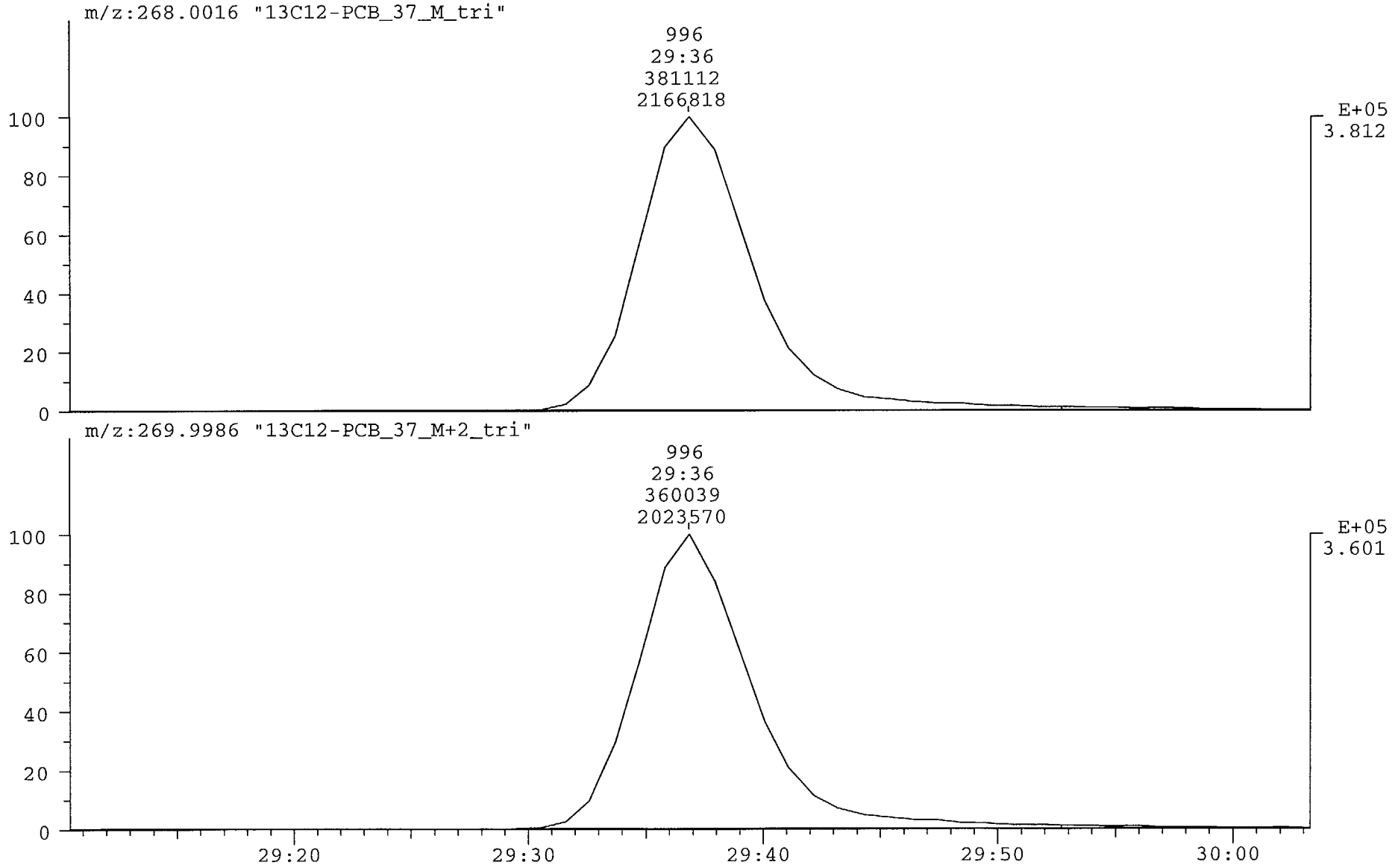
CHRO: aph2w5kc 25-Apr-06 Elapse: 20:45.3 497
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 377 > 637 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



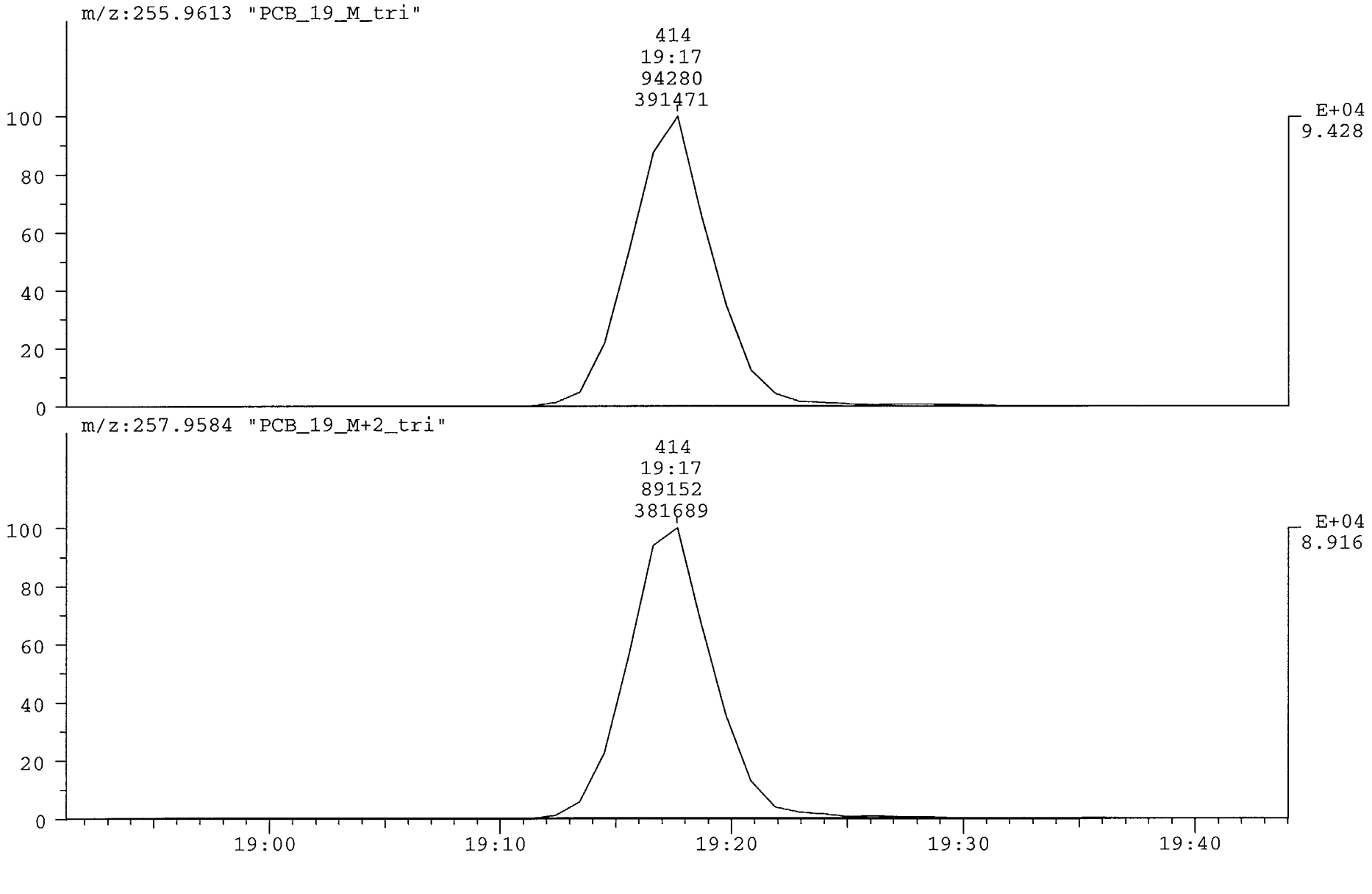
```
CHRO:  aph2w5kc                                25-Apr-06   Elapse:  25:07.5      741
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                  Start :  11:04:47    2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050C               Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   716 > 781             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



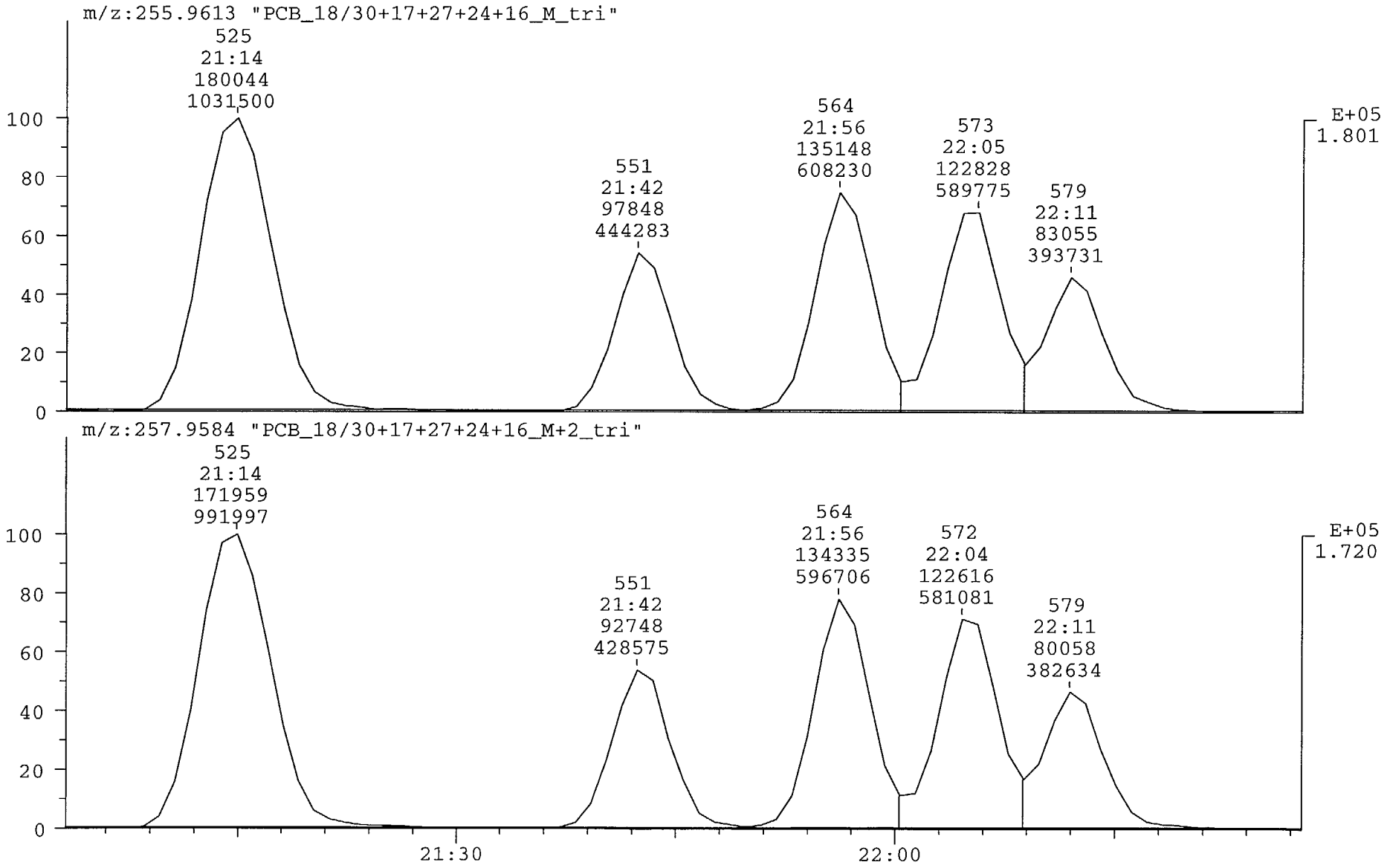
CHRO: aph2w5kc 25-Apr-06 Elapse: 29:36.8 996
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 971 > 1021 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



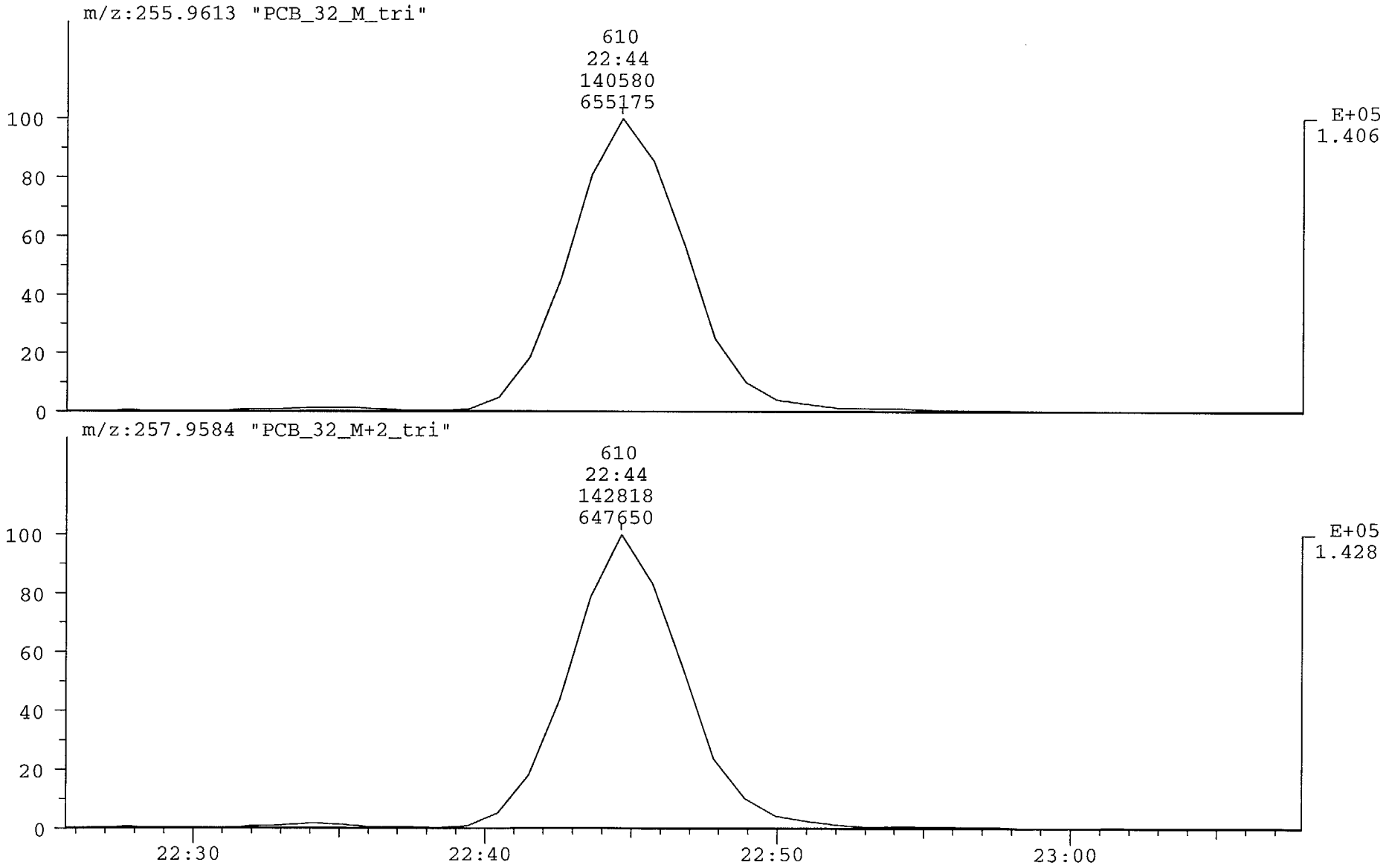
CHRO: aph2w5kc 25-Apr-06 Elapse: 19:17.6 414
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 389 > 439 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



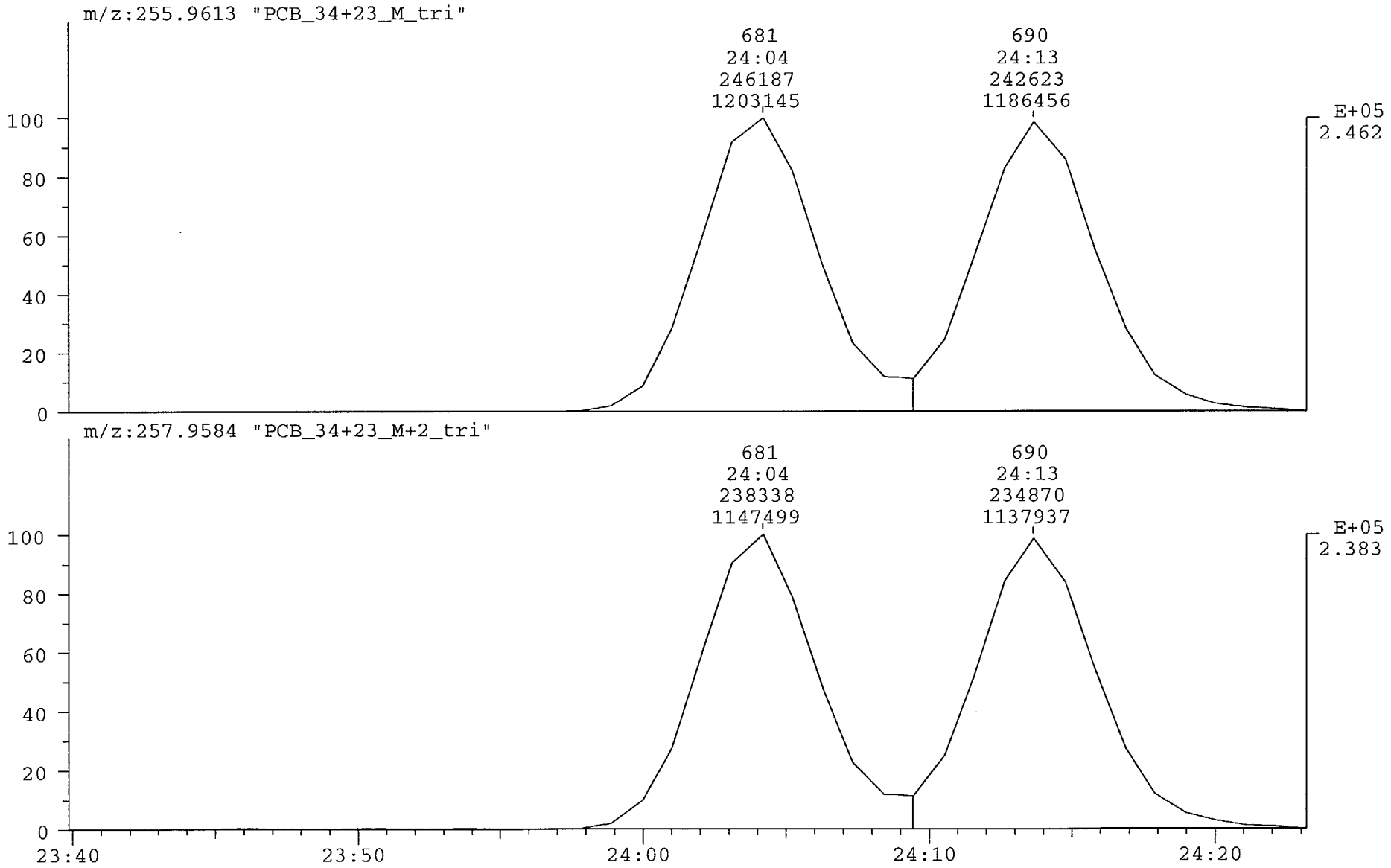
CHRO: aph2w5kc 25-Apr-06 Elapse: 21:45.5 554
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 514 > 594 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



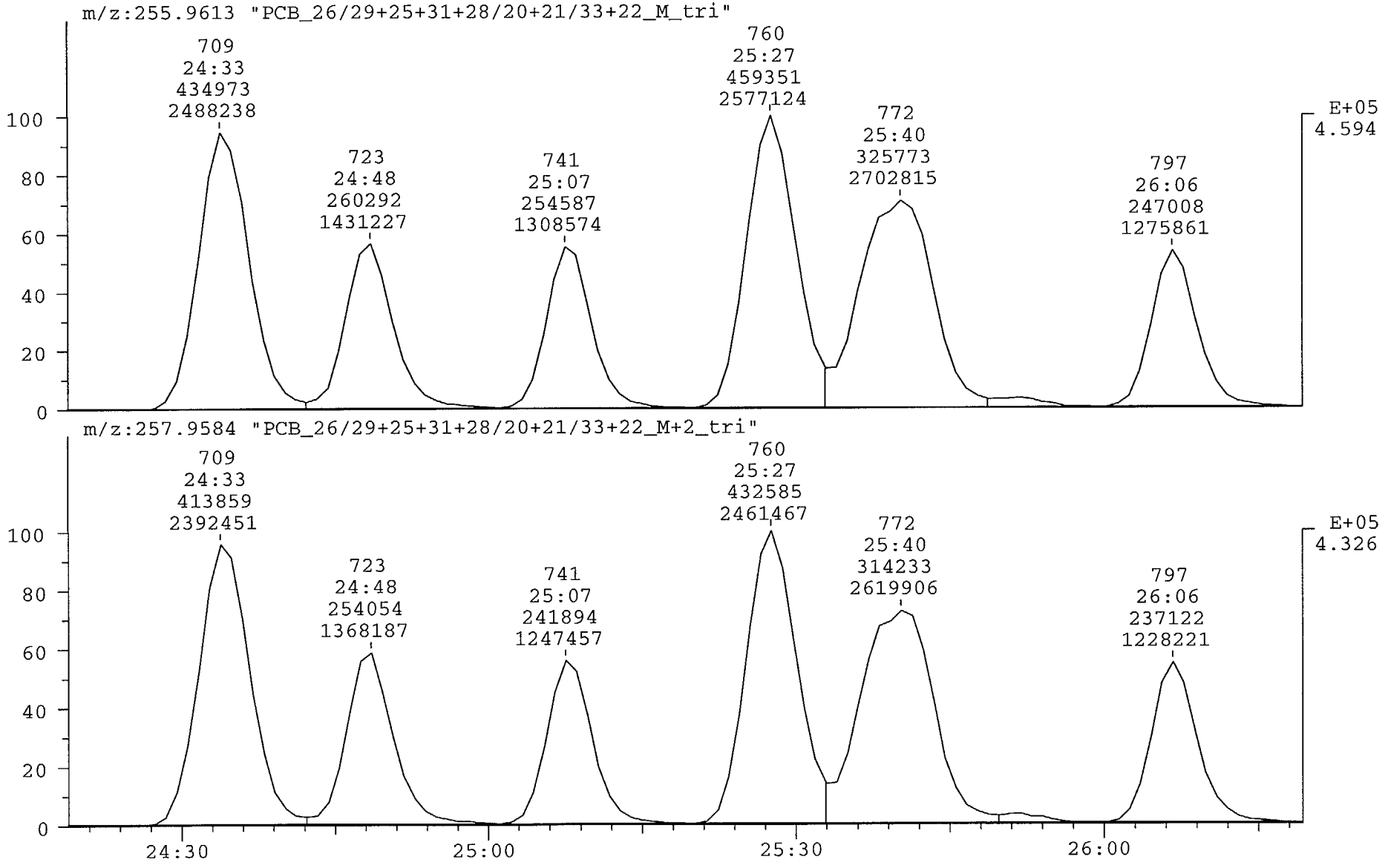
CHRO: aph2w5kc 25-Apr-06 Elapse: 22:46.7 612
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 592 > 632 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



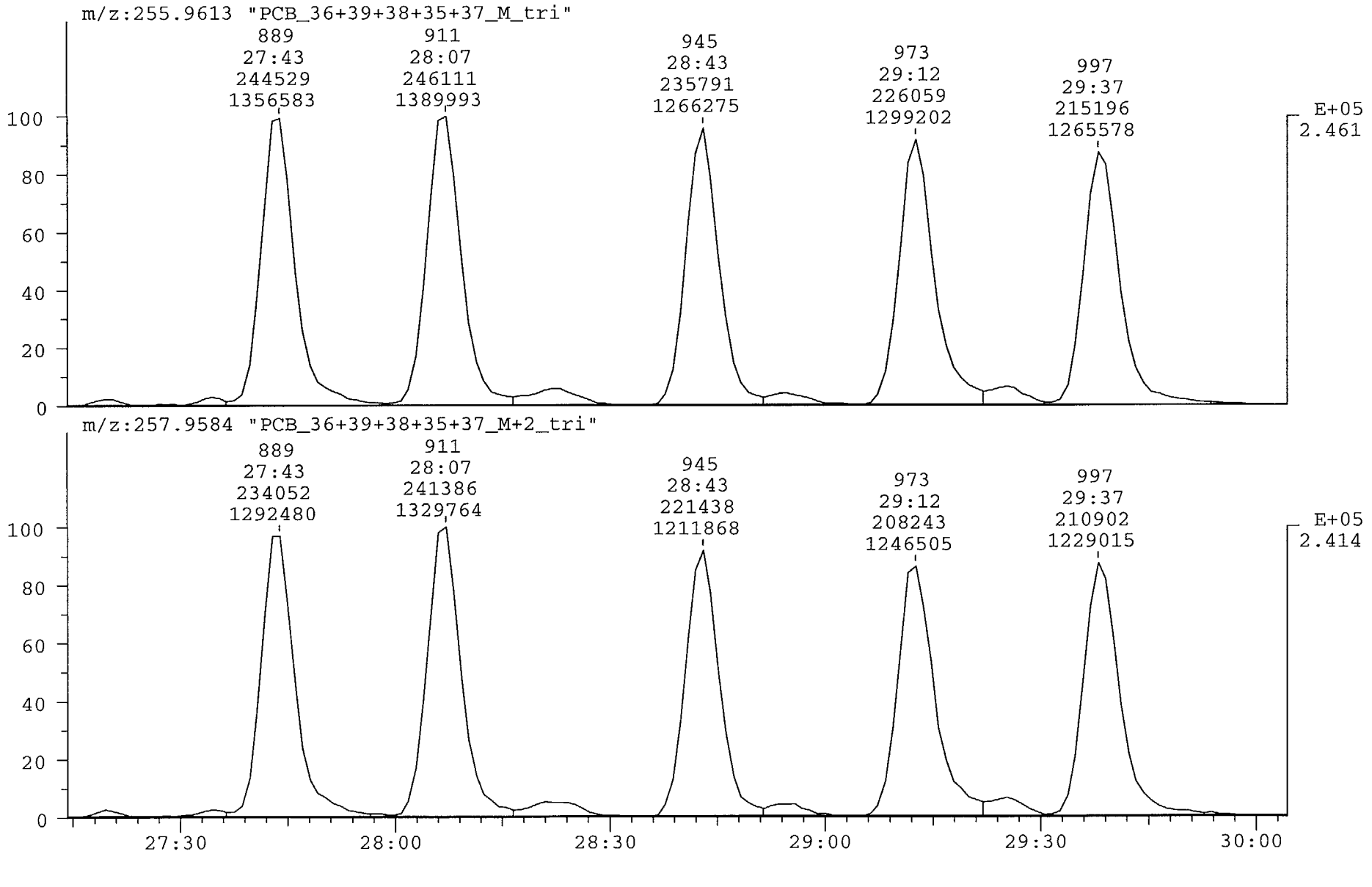
CHRO: aph2w5kc 25-Apr-06 Elapse: 24:06.3 683
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 658 > 699 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



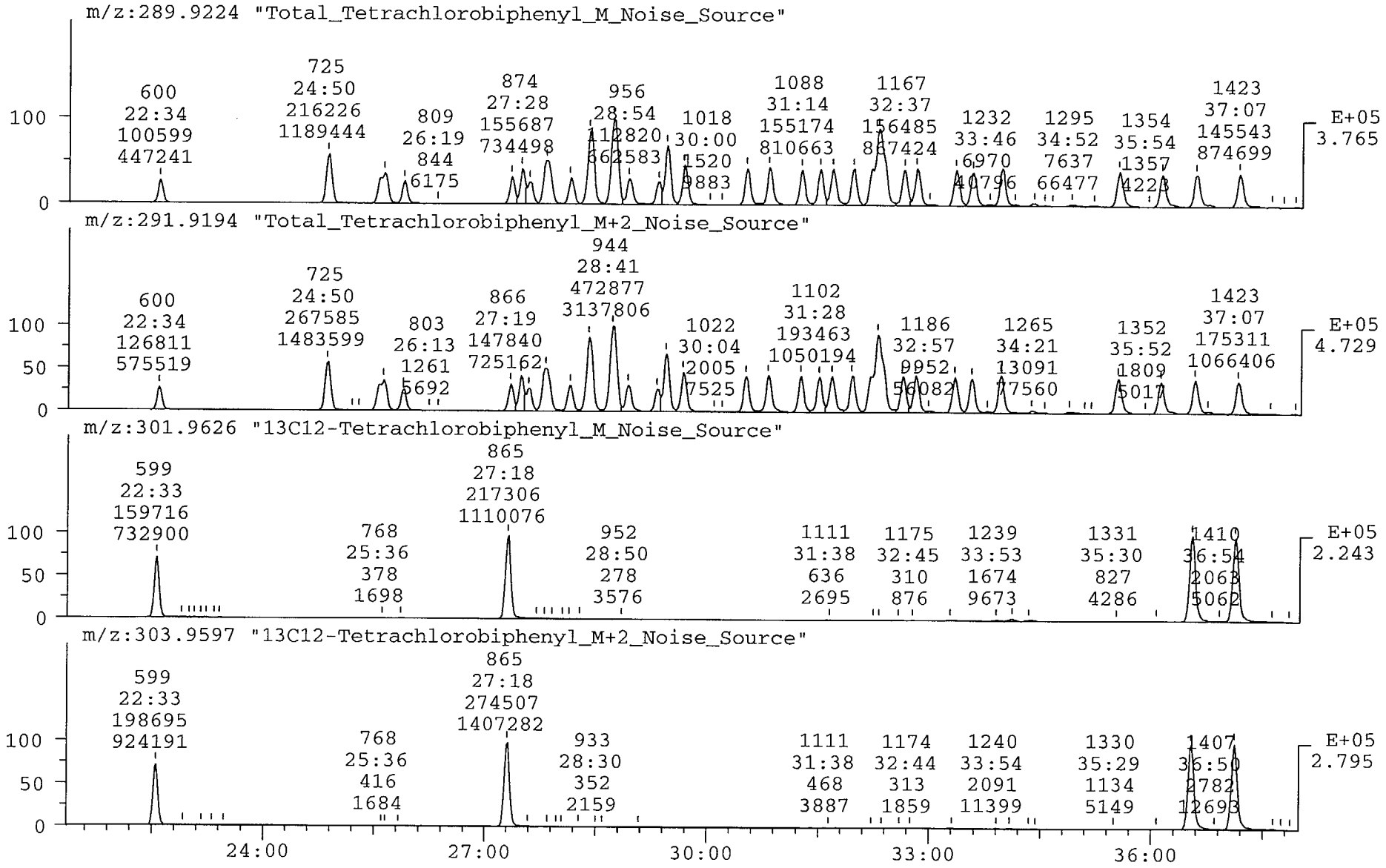
CHRO: aph2w5kc 25-Apr-06 Elapse: 25:31.8 764
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 695 > 809 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



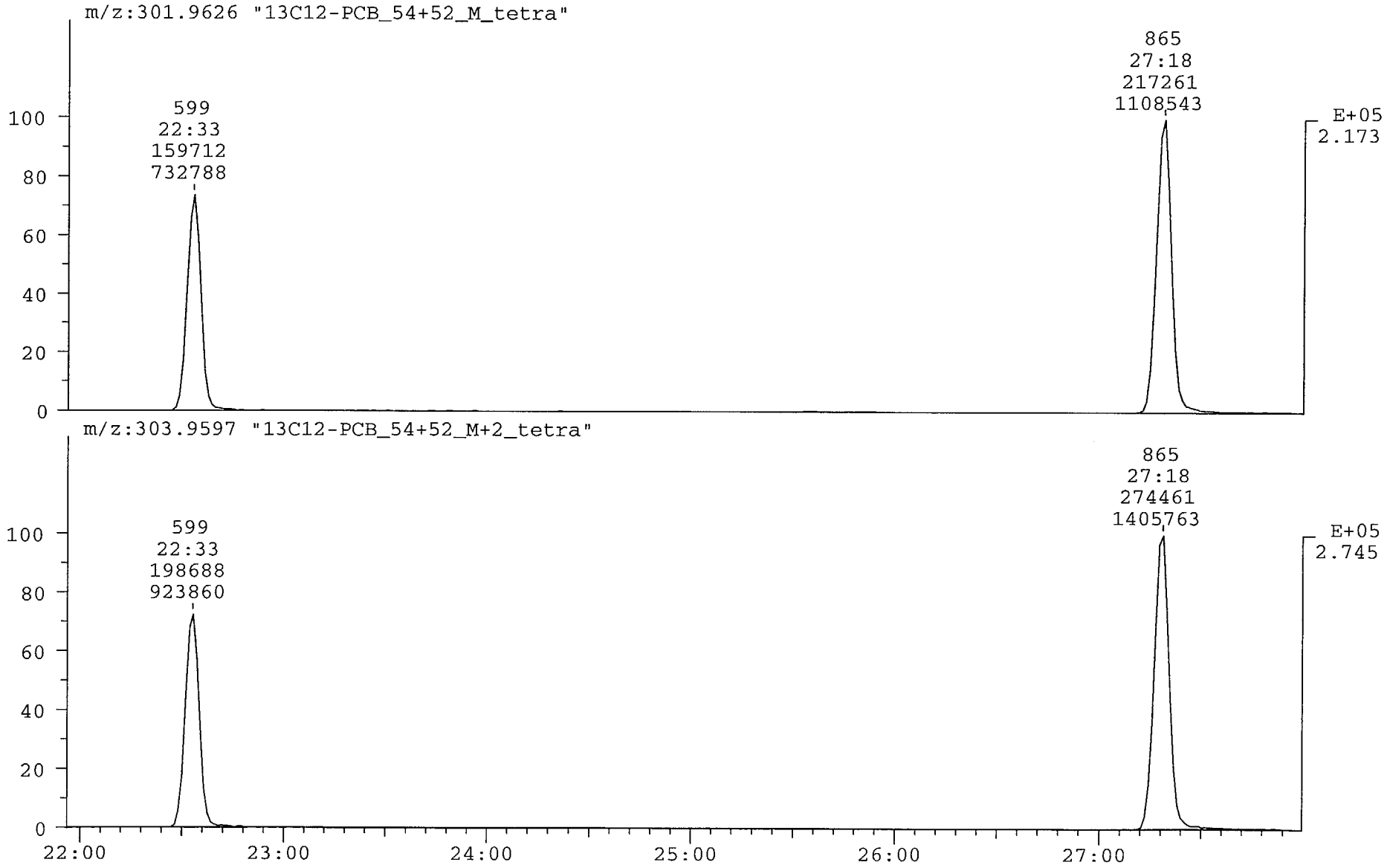
CHRO: aph2w5kc 25-Apr-06 Elapse: 28:44.9 946
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 861 > 1022 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



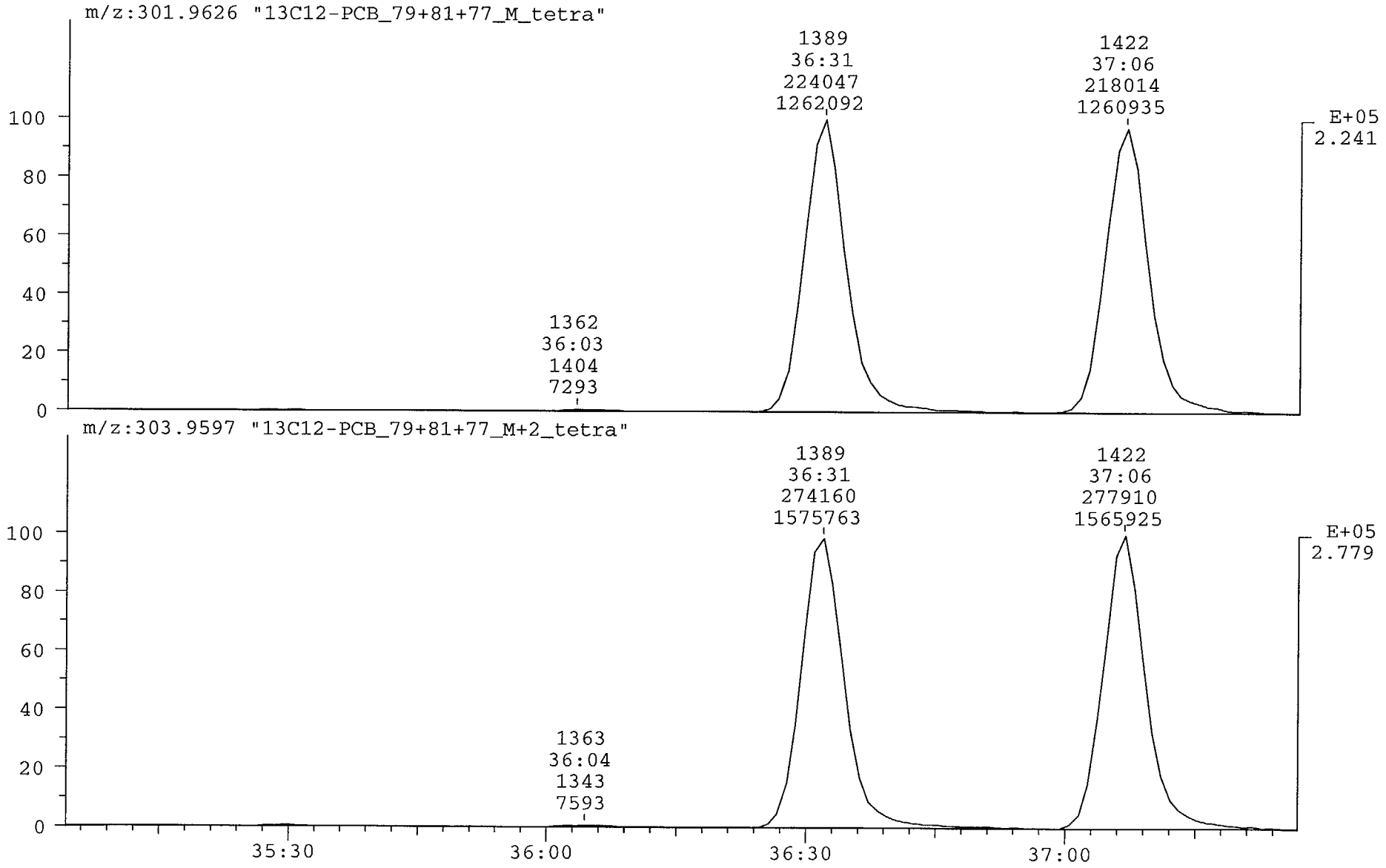
CHRO: aph2w5kc 25-Apr-06 Elapse: 29:40.0 999
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 531 > 1471 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



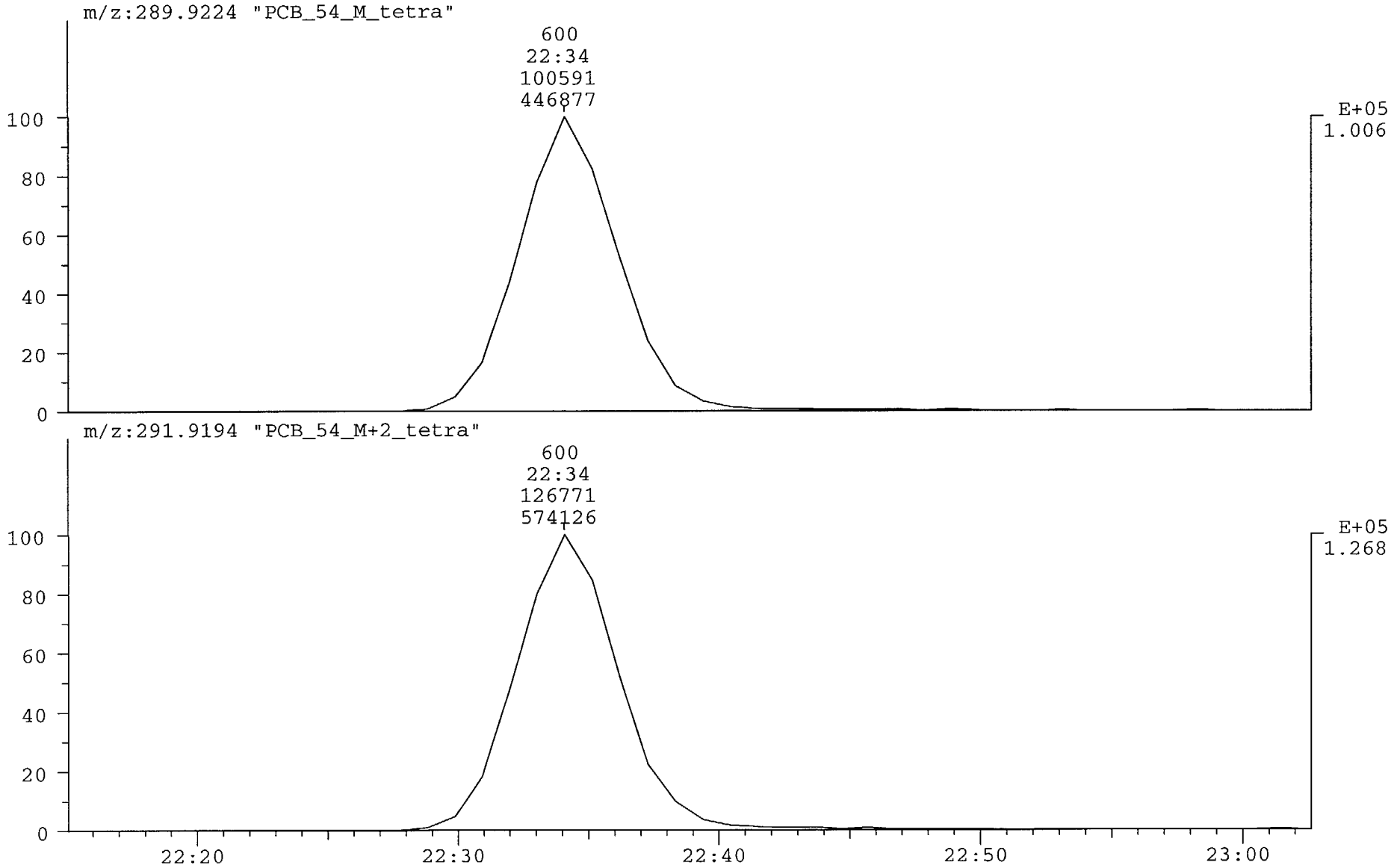
CHRO: aph2w5kc 25-Apr-06 Elapse: 25:00.1 734
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 564 > 904 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



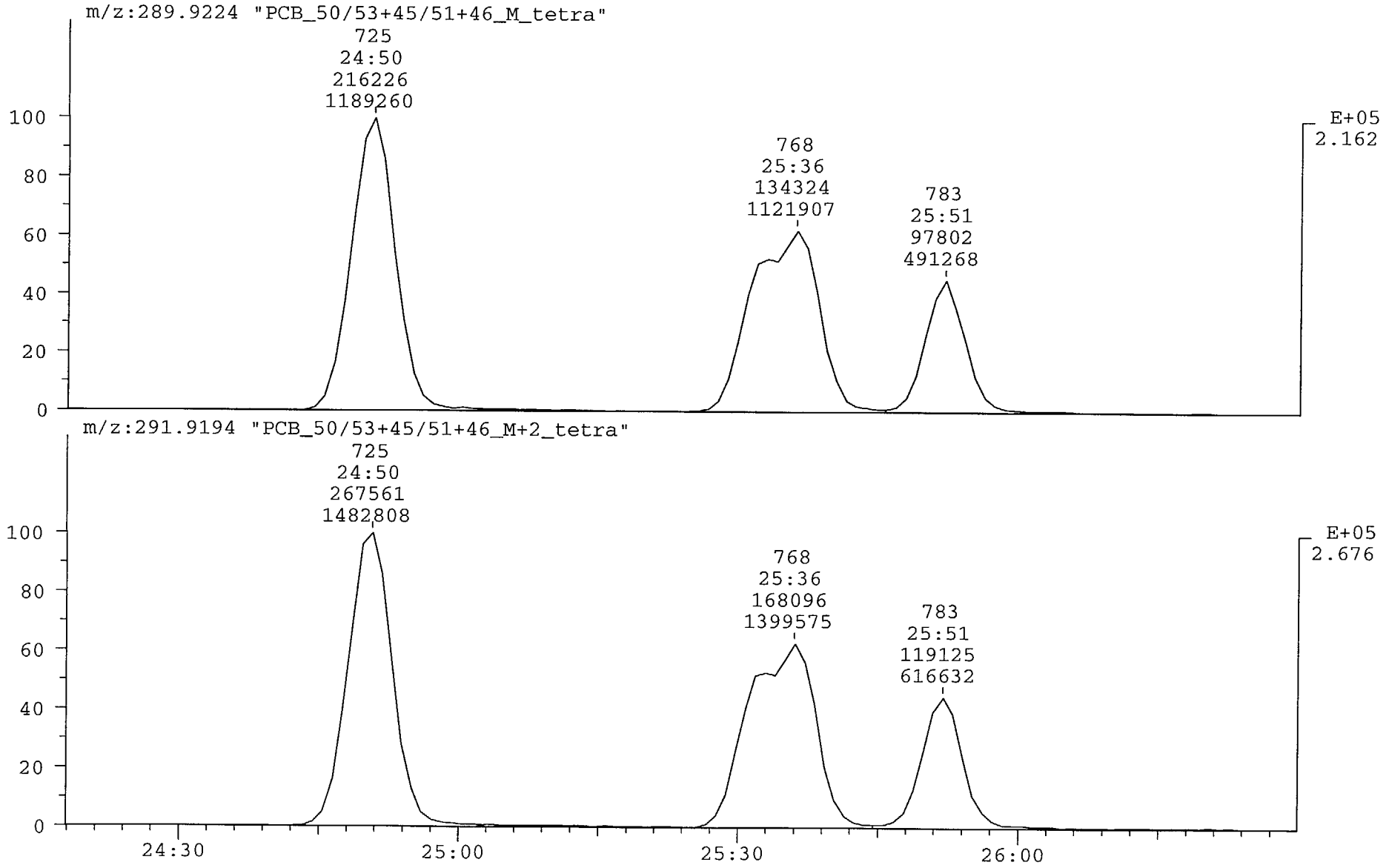
```
CHRO:  aph2w5kc                              25-Apr-06   Elapse:  36:18      1376
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                Start :  11:04:47   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050C             Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   1306 > 1441        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



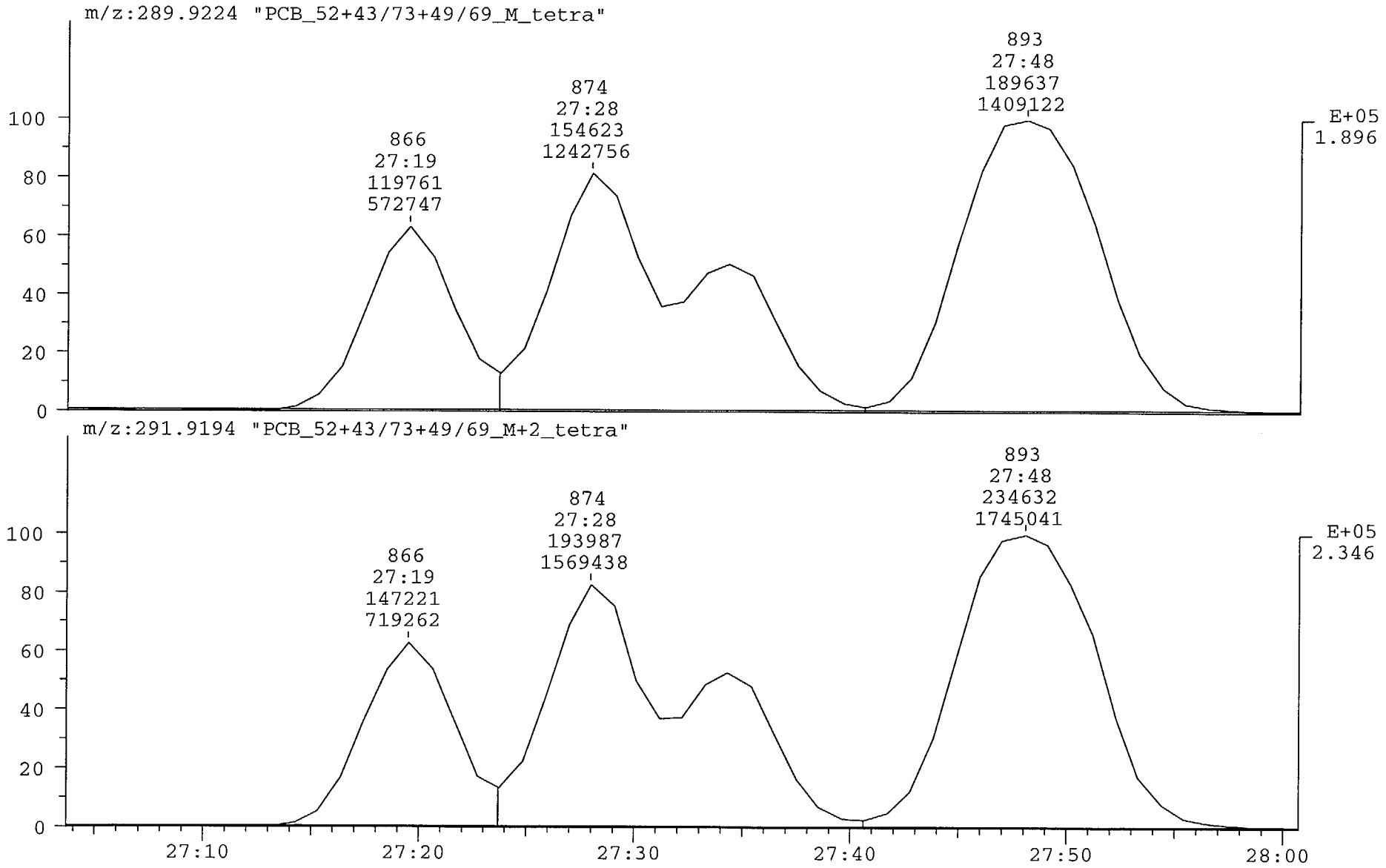
CHRO: aph2w5kc 25-Apr-06 Elapse: 22:36.2 602
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 582 > 627 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



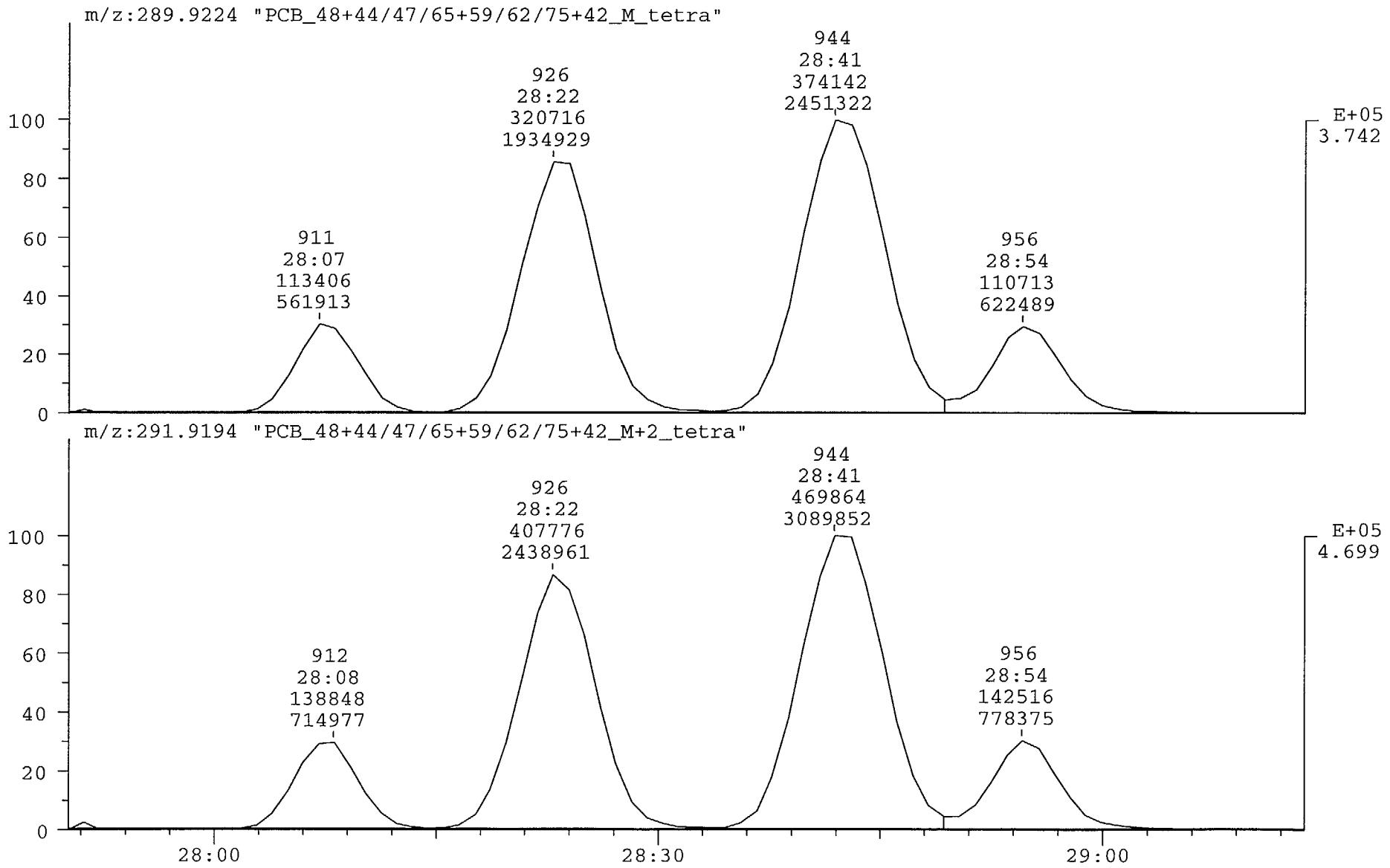
```
CHRO:  aph2w5kc                                  25-Apr-06   Elapse:  25:26.5      759
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                    Start :  11:04:47    2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                             Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050C                 Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   694 > 819               Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 9                  Label :  -3, 3.0
Disp:  Height  Area
```



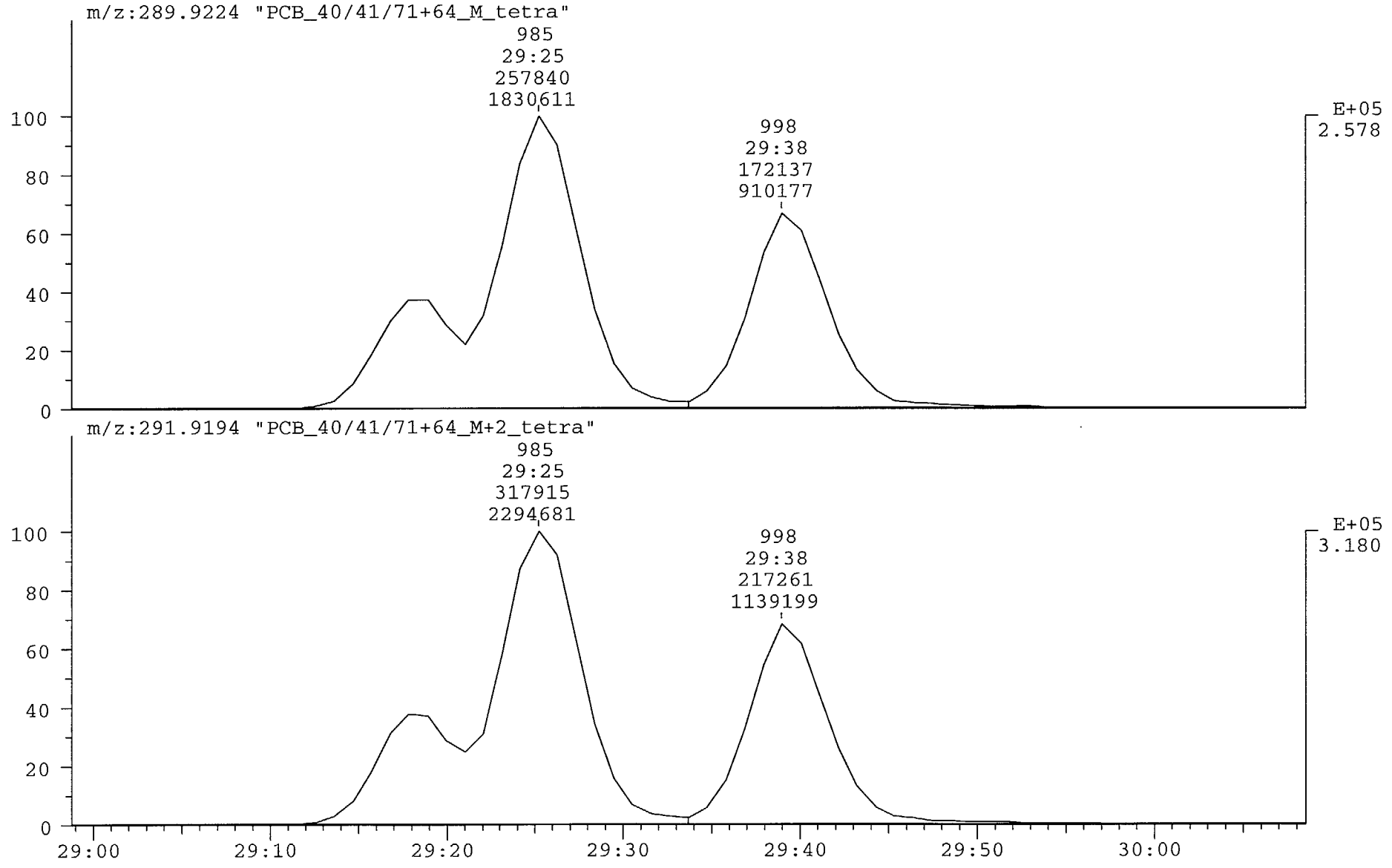
CHRO: aph2w5kc 25-Apr-06 Elapse: 27:38.5 884
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 851 > 905 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



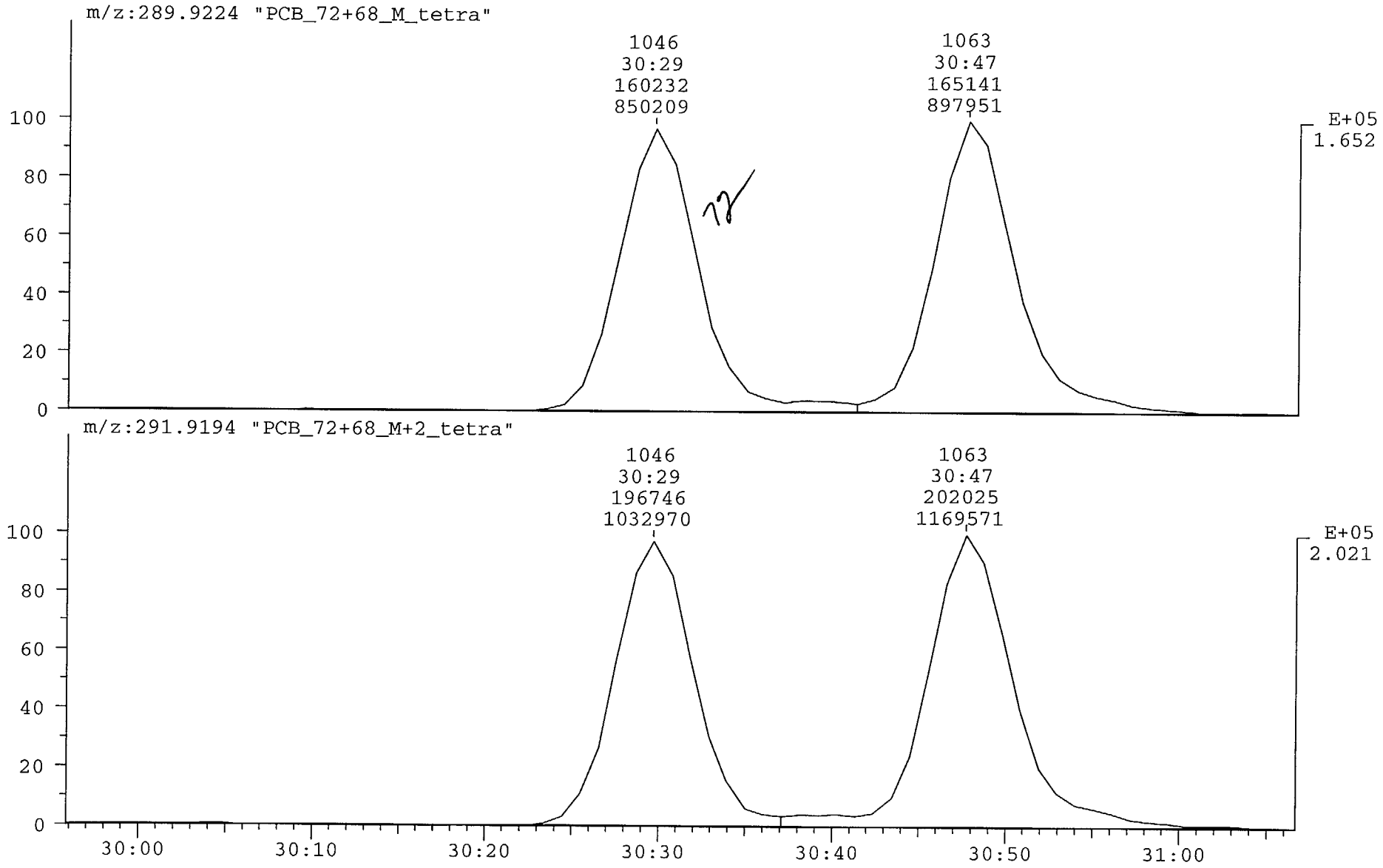
CHRO: aph2w5kc 25-Apr-06 Elapse: 28:35.5 938
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 895 > 974 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



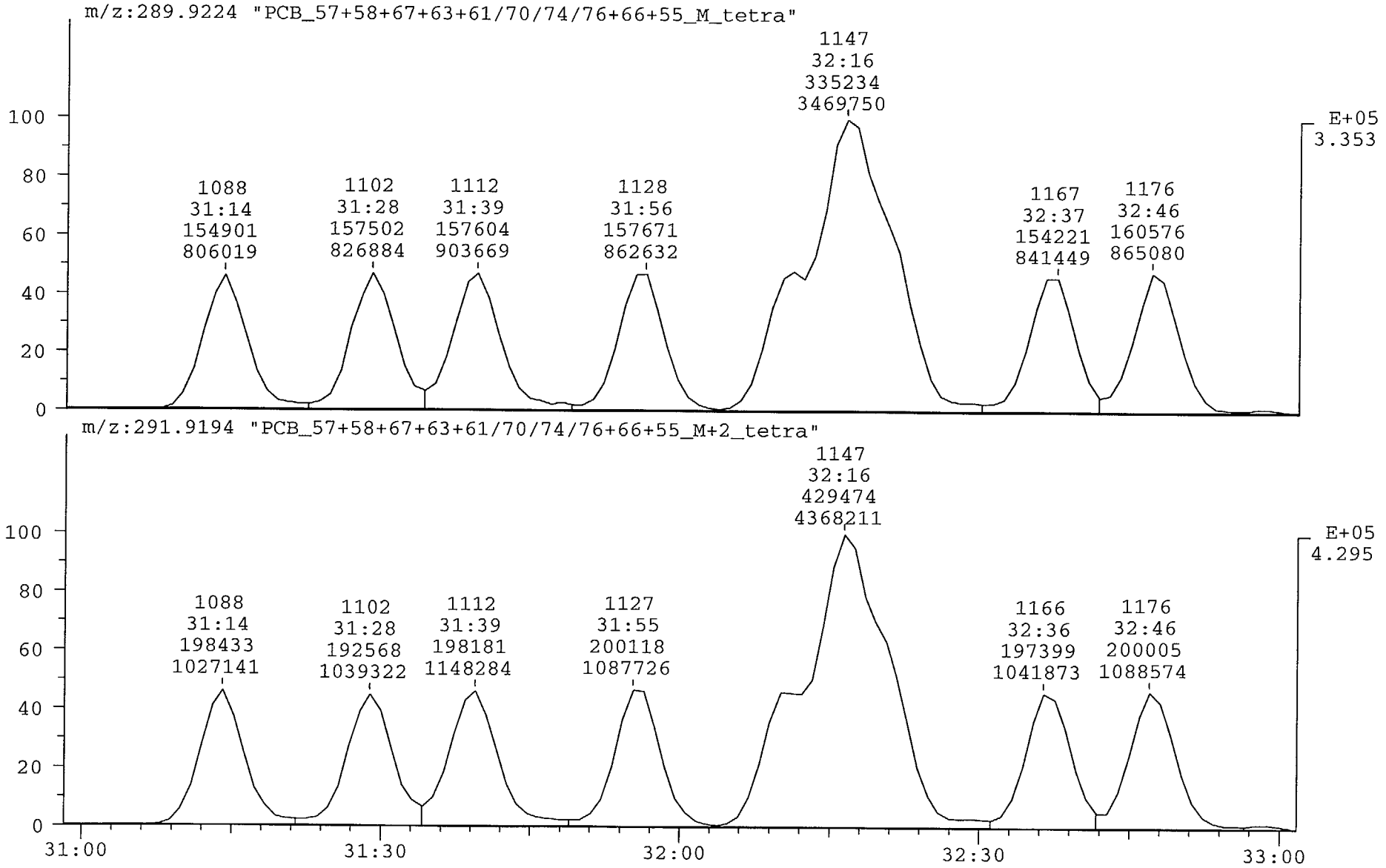
CHRO: aph2w5kc 25-Apr-06 Elapse: 29:36.8 996
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 960 > 1026 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



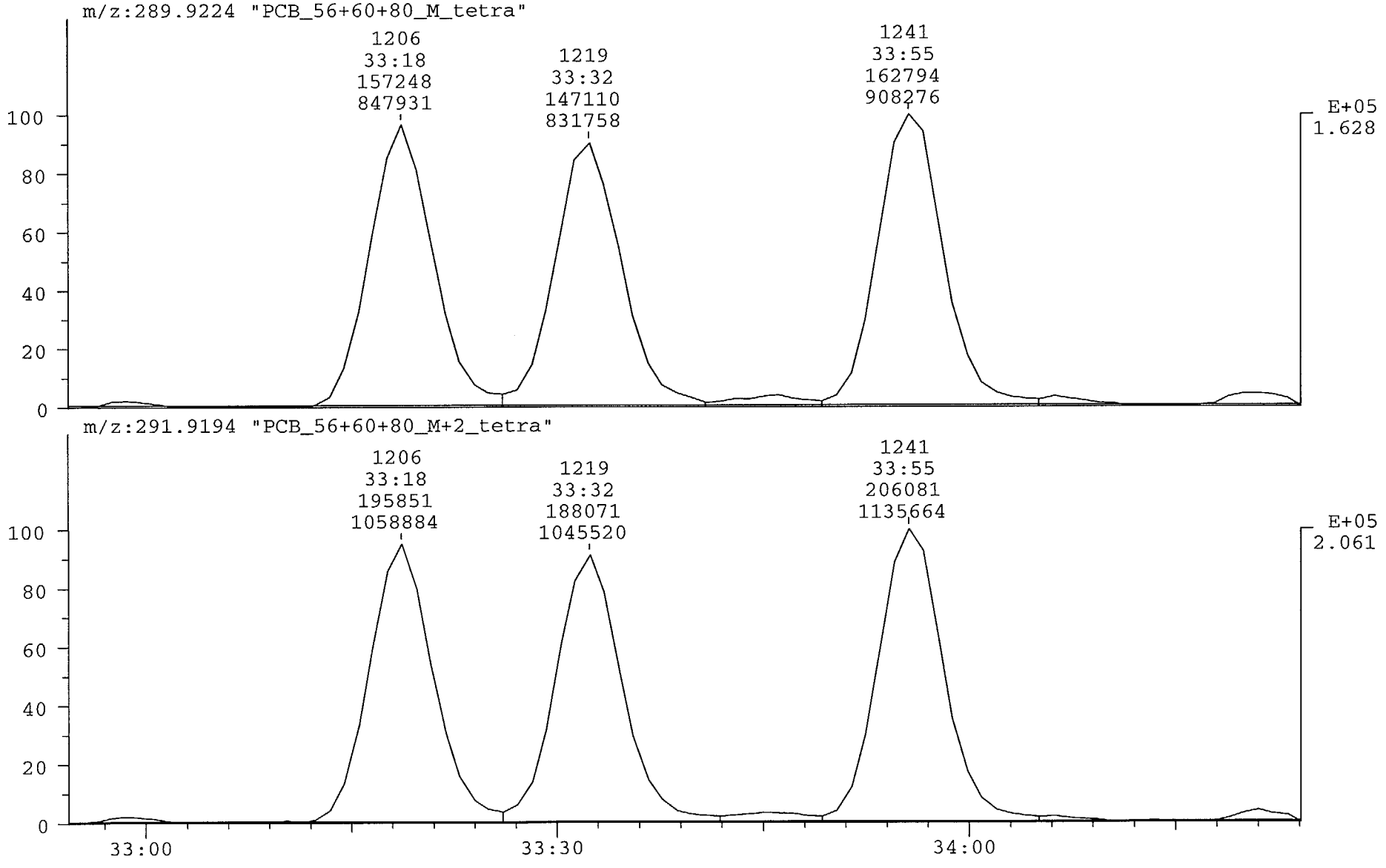
CHRO: aph2w5kc 25-Apr-06 Elapse: 30:43 1059
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1014 > 1081 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



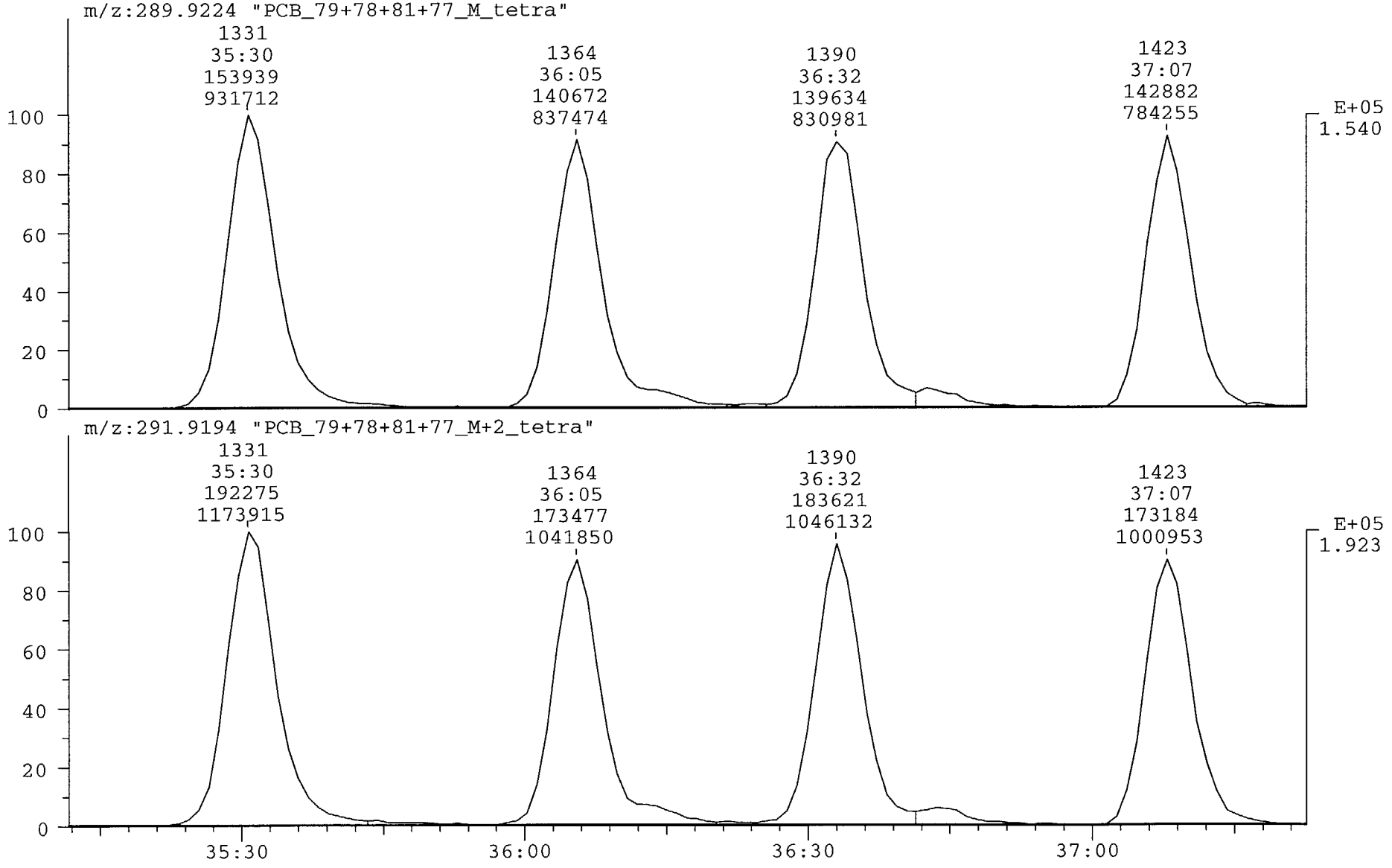
```
CHRO:  aph2w5kc                                25-Apr-06   Elapse:  32:03      1135
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                  Start :  11:04:47   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050C               Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   1073 > 1190          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



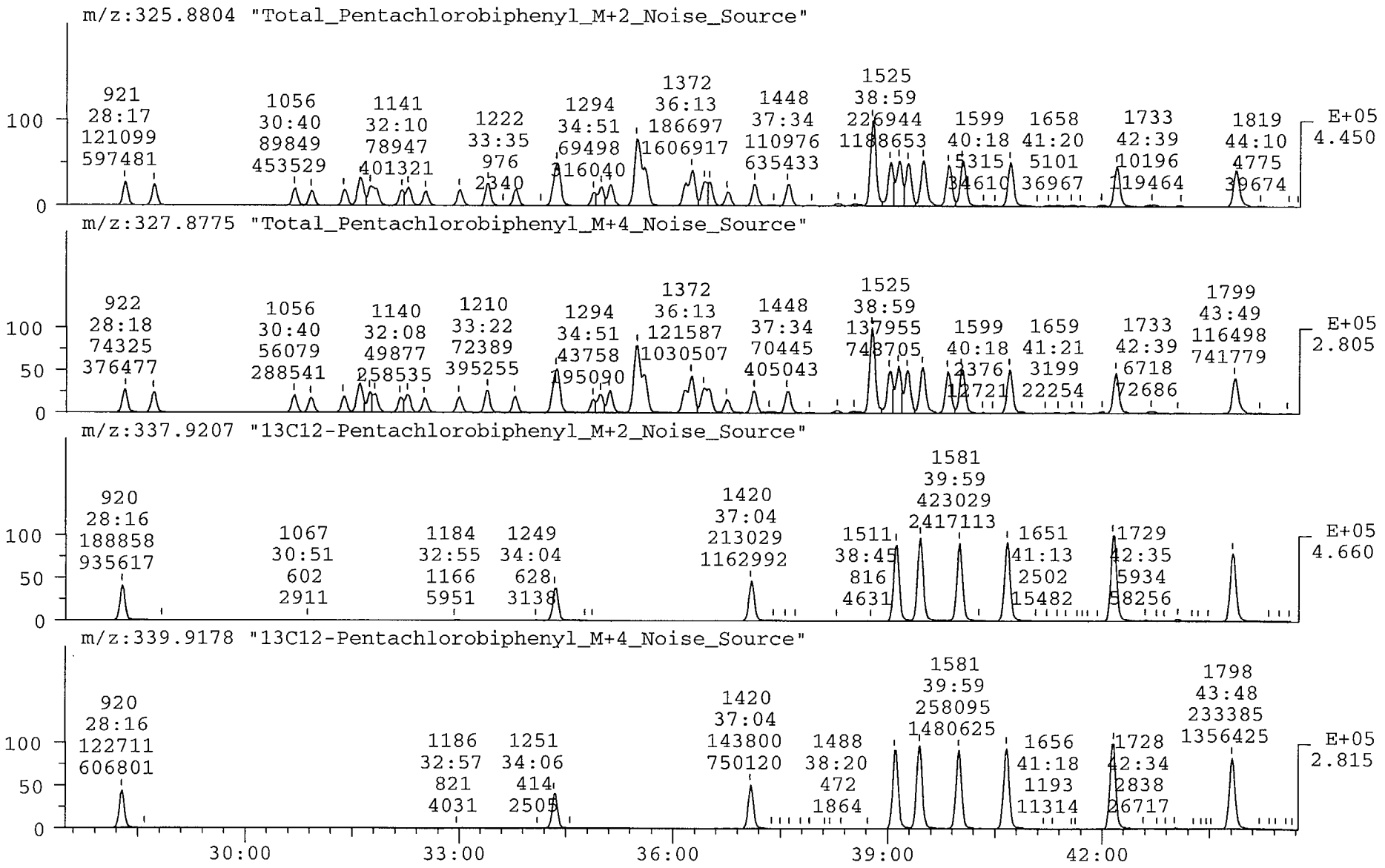
CHRO: aph2w5kc 25-Apr-06 Elapse: 33:39 1226
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1183 > 1268 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



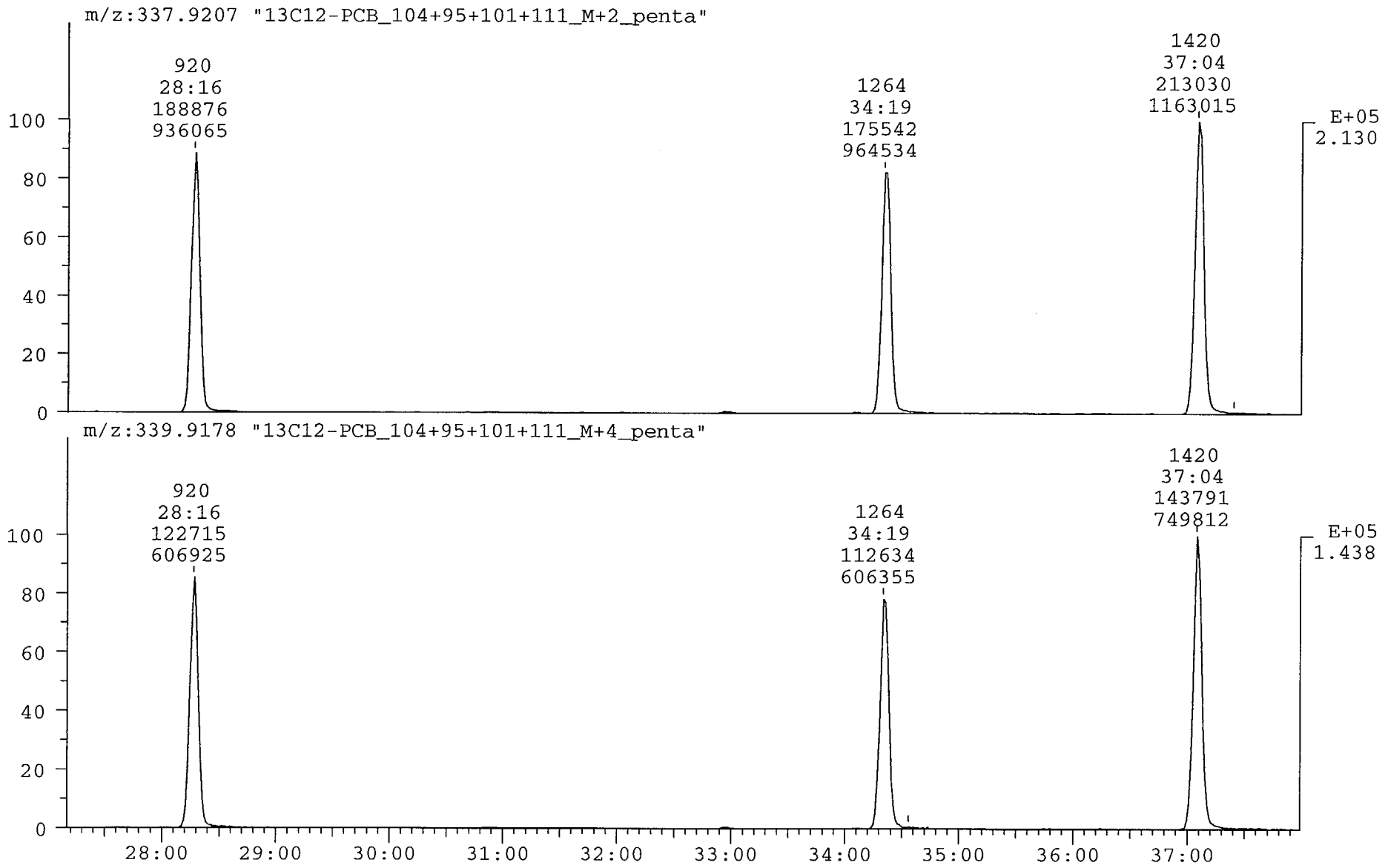
CHRO: aph2w5kc 25-Apr-06 Elapse: 36:19 1377
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1313 > 1437 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



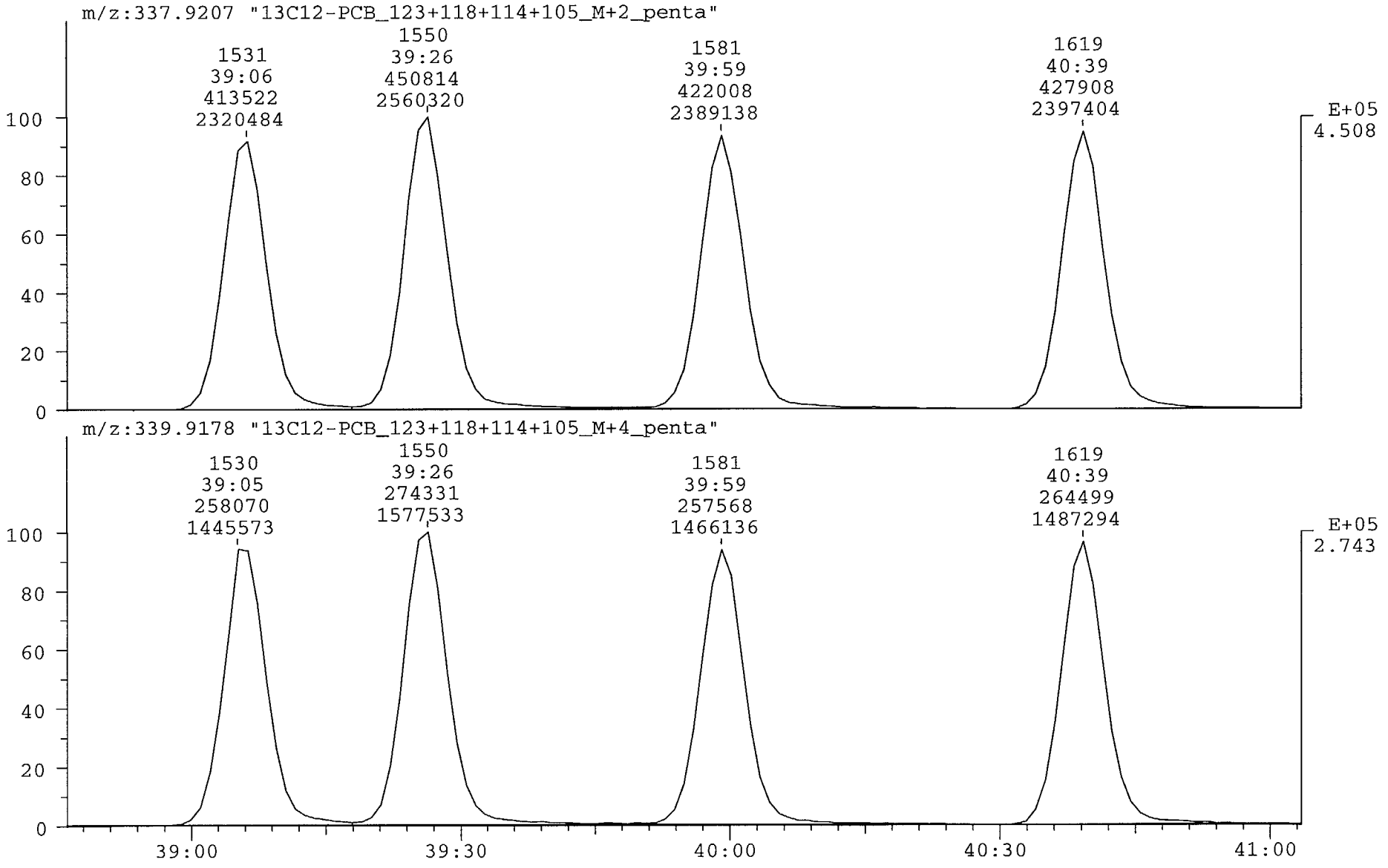
CHRO: aph2w5kc 25-Apr-06 Elapse: 36:05 1364
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 875 > 1851 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



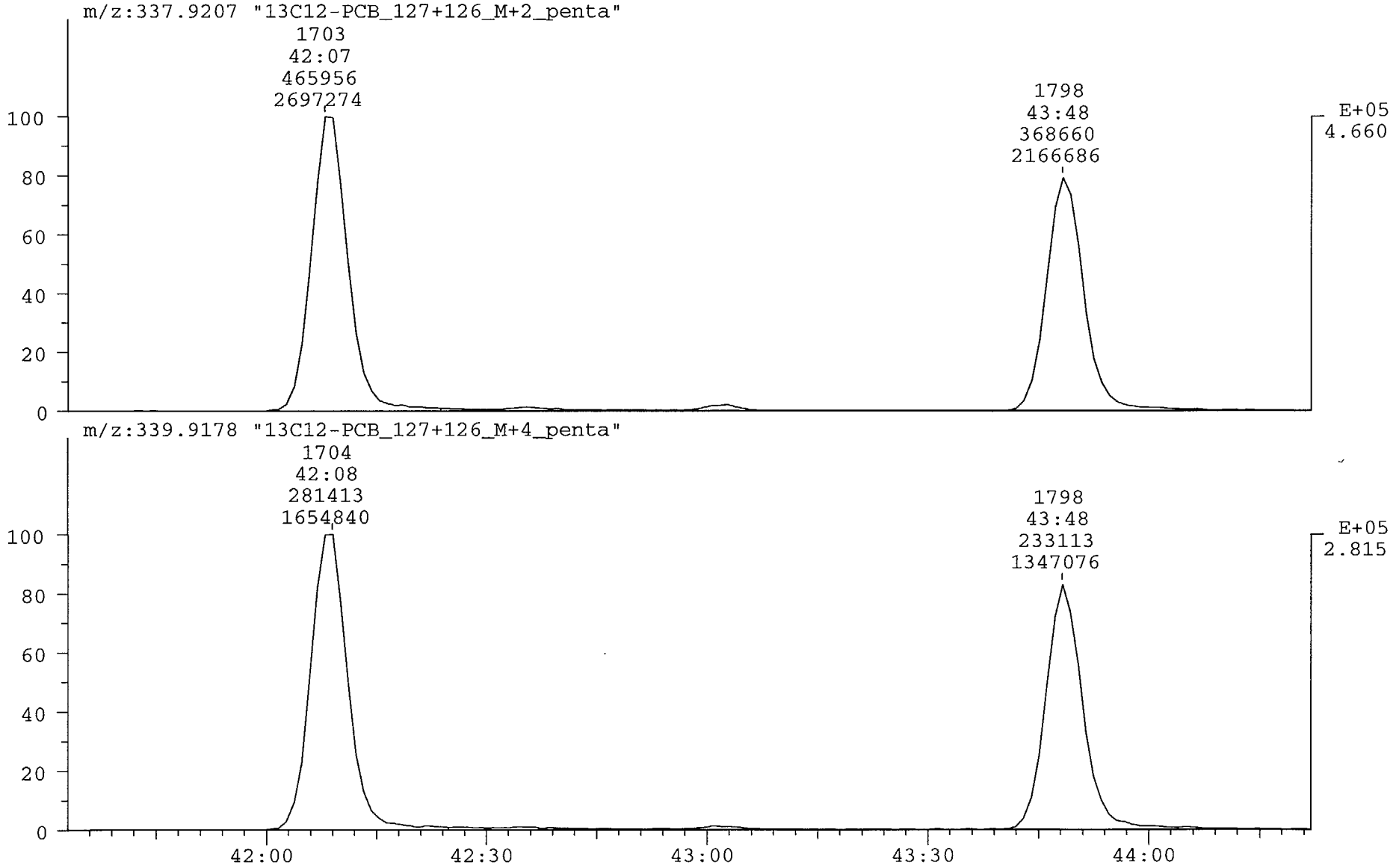
CHRO: aph2w5kc 25-Apr-06 Elapse: 32:34 1164
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 857 > 1471 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



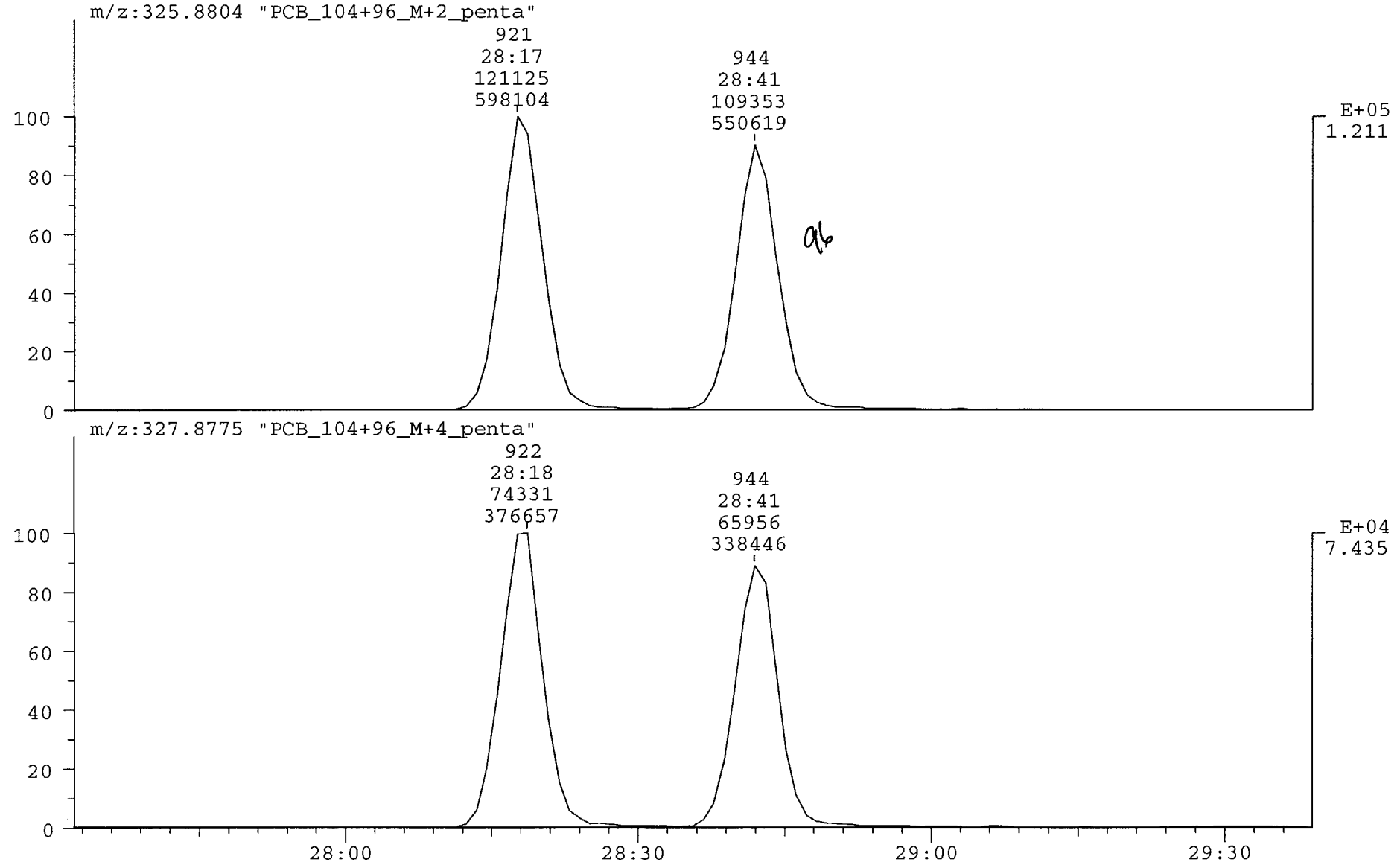
CHRO: aph2w5kc 25-Apr-06 Elapse: 39:54 1577
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1512 > 1642 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



CHRO: aph2w5kc 25-Apr-06 Elapse: 42:57 1750
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1670 > 1830 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

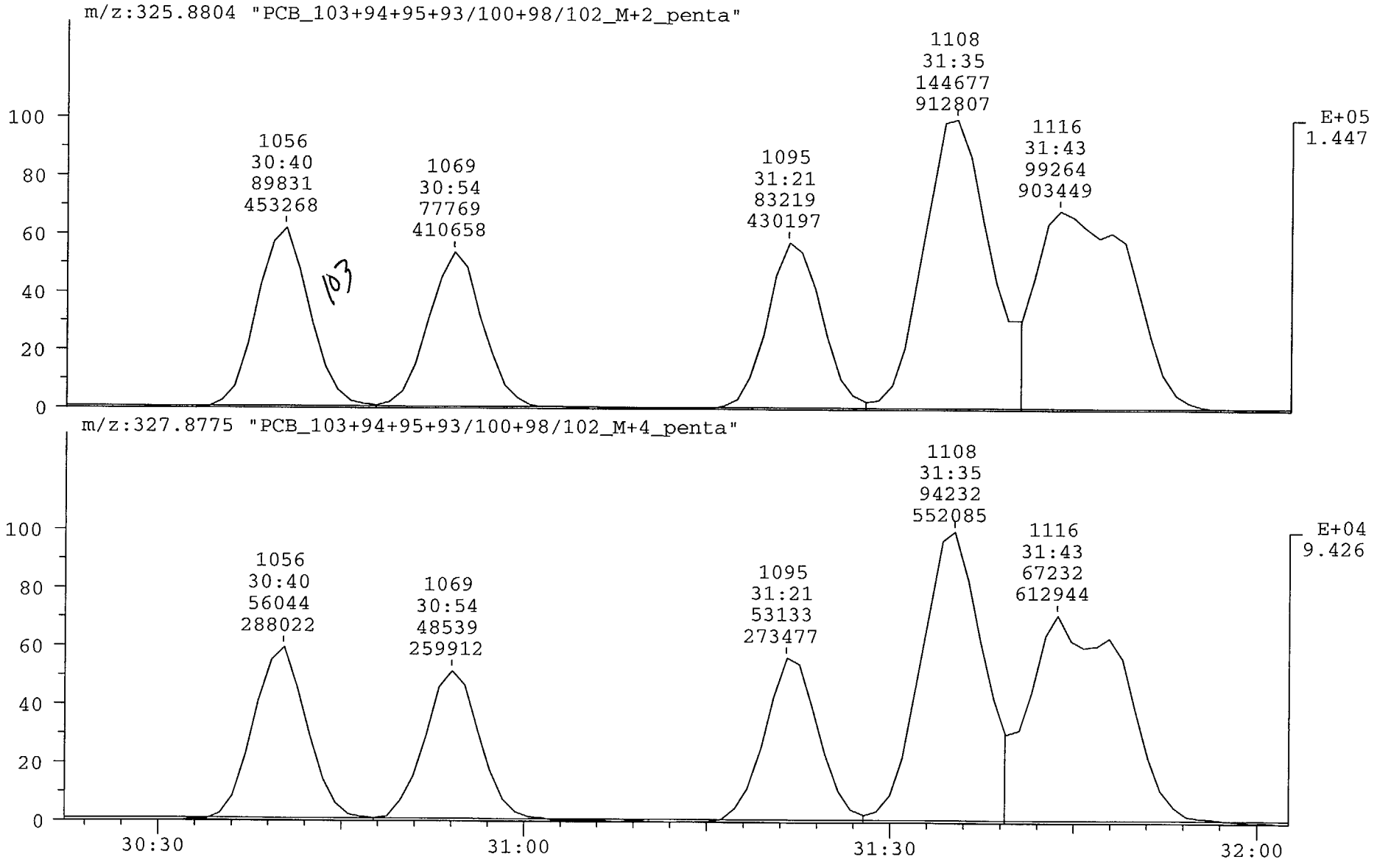


CHRO: aph2w5kc 25-Apr-06 Elapse: 28:35.5 938
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 878 > 998 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

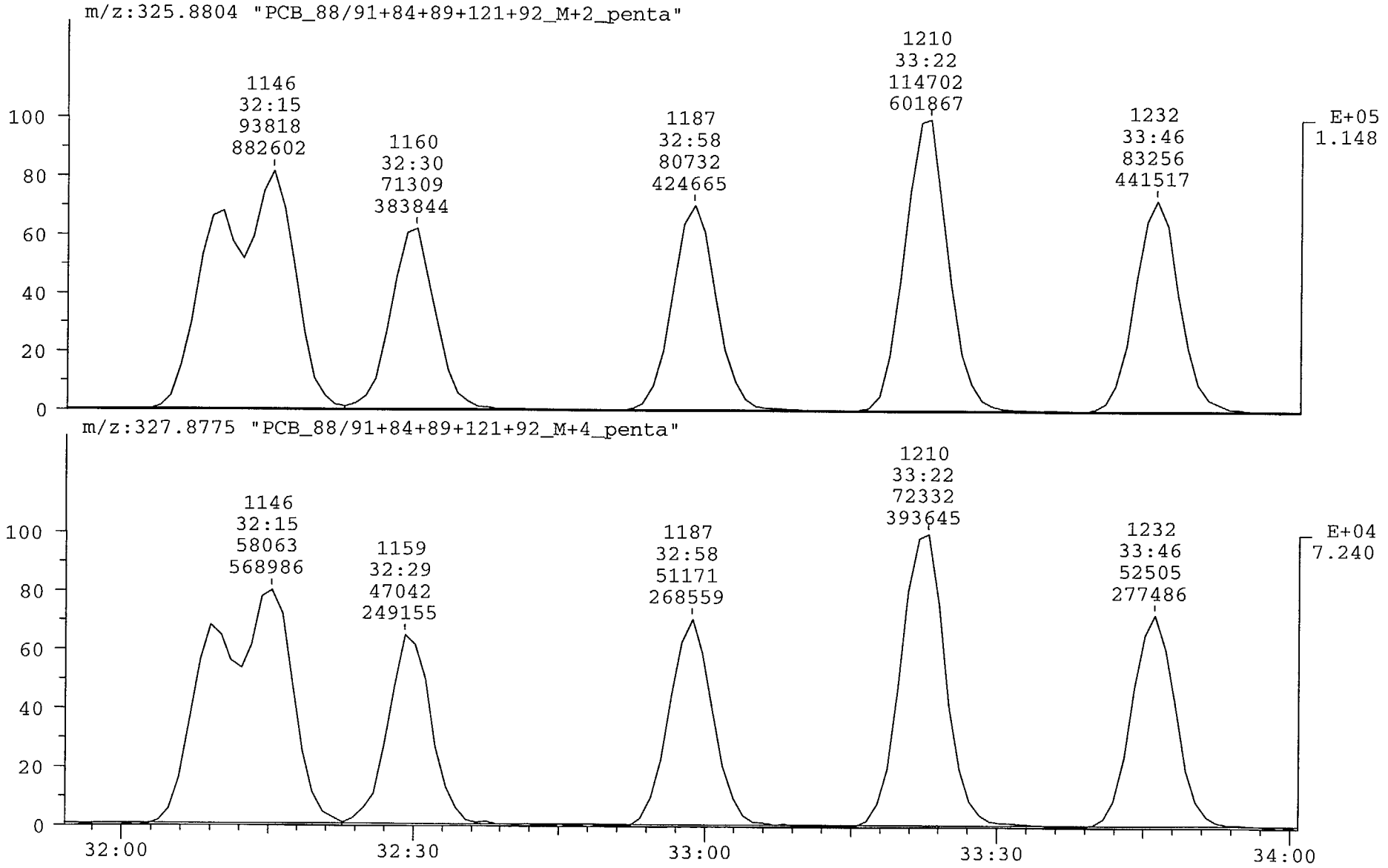


3272

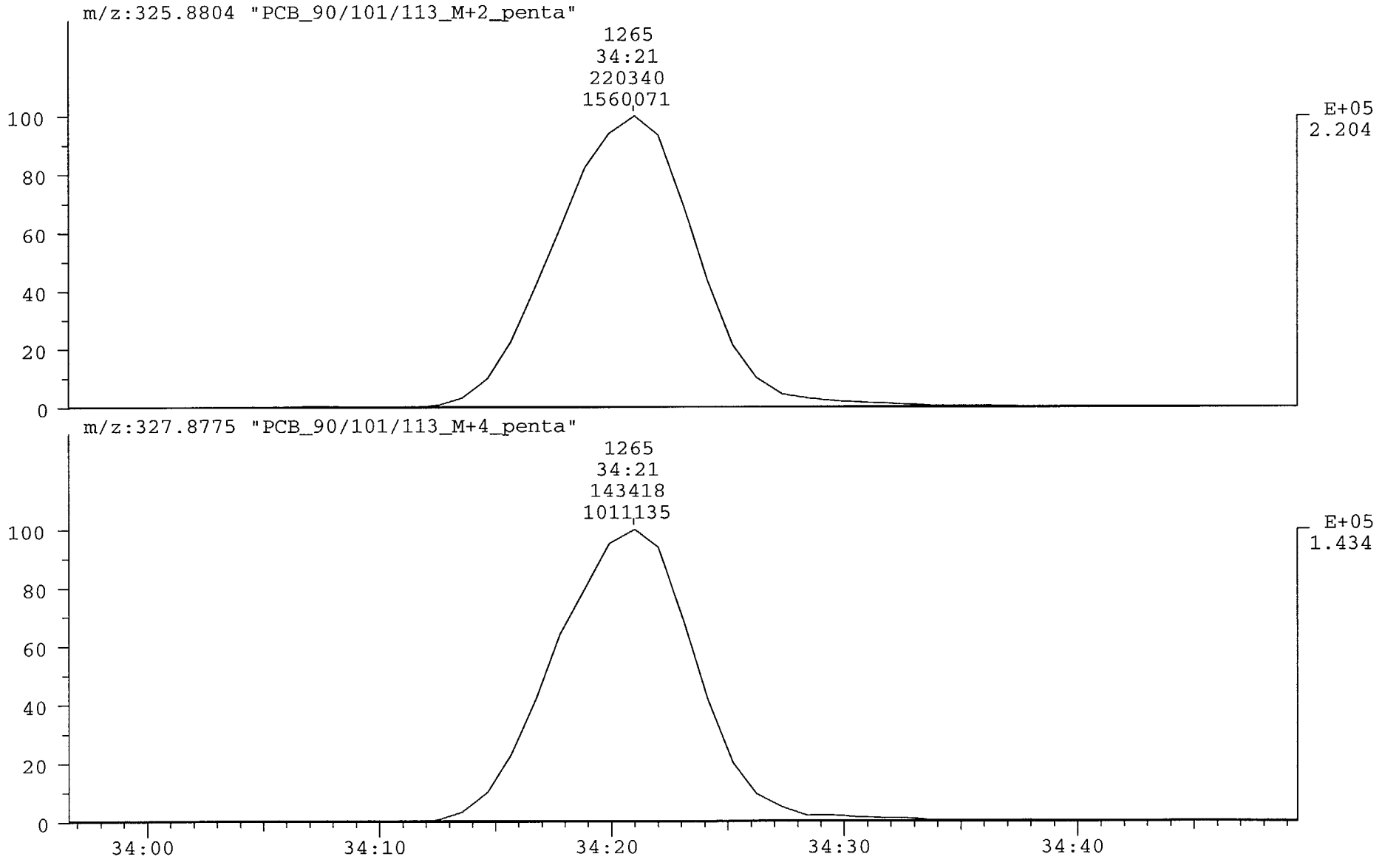
CHRO: aph2w5kc 25-Apr-06 Elapse: 31:17 1091
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1039 > 1134 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



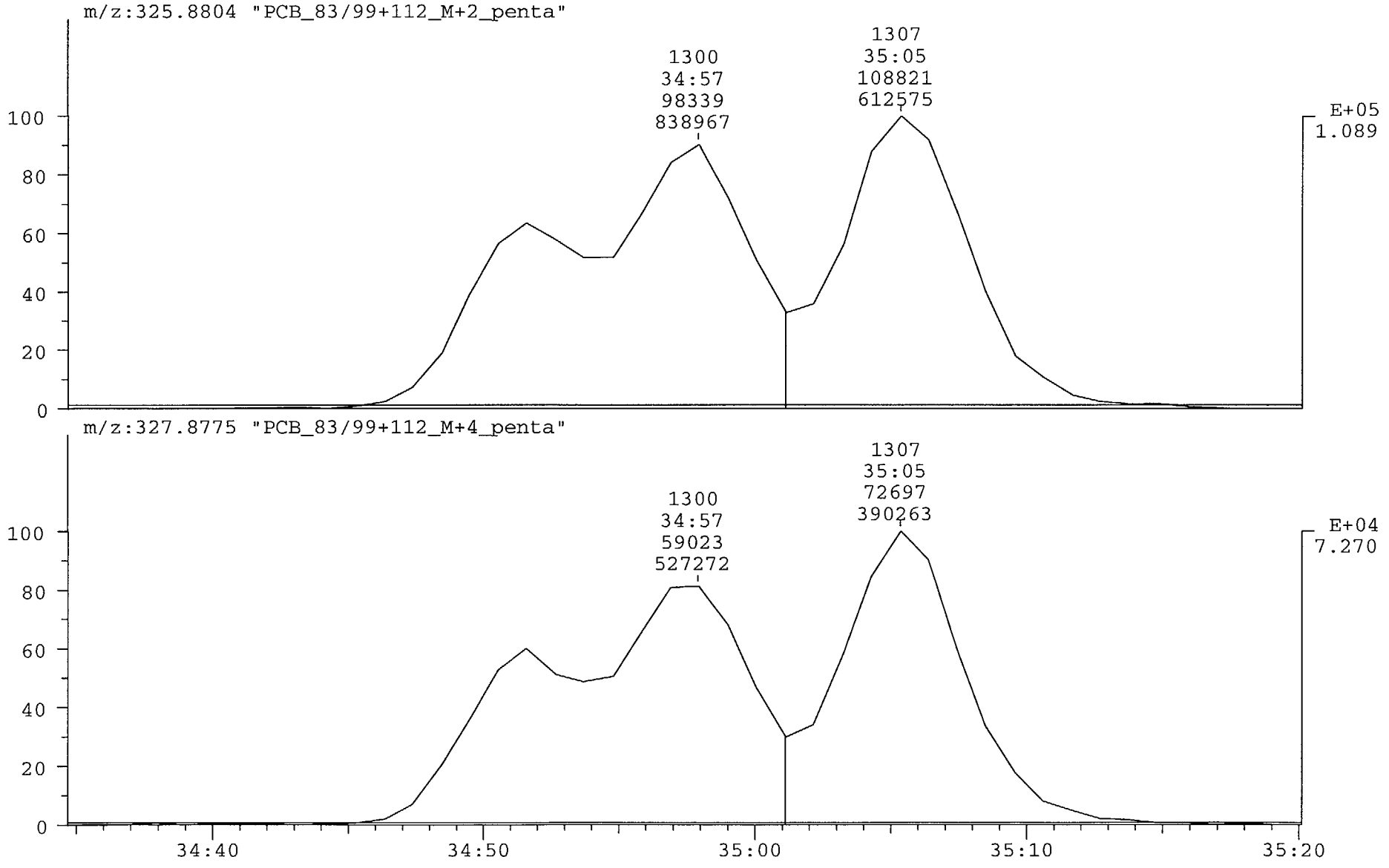
CHRO: aph2w5kc 25-Apr-06 Elapse: 33:04 1193
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1126 > 1246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



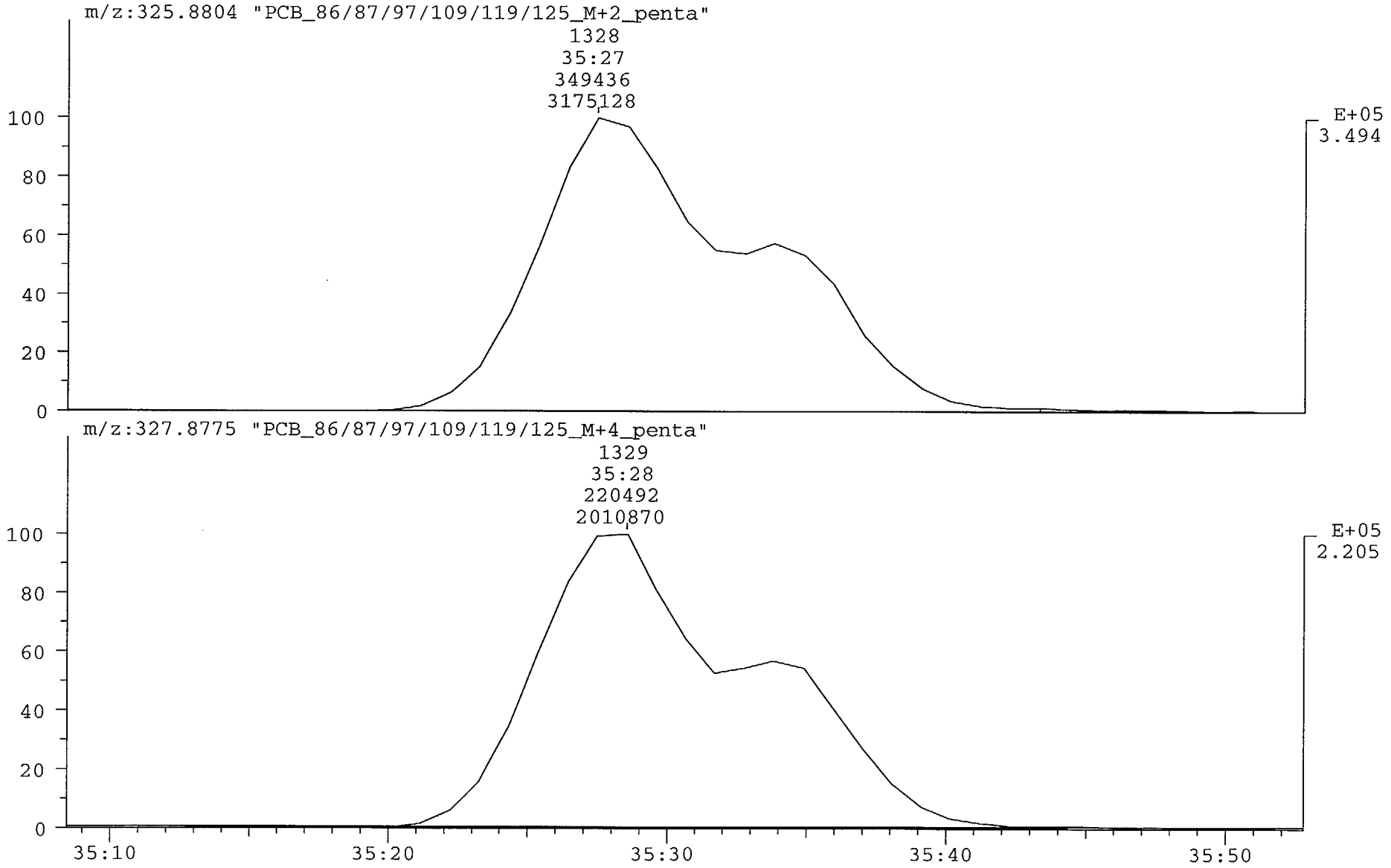
CHRO: aph2w5kc 25-Apr-06 Elapse: 34:23 1267
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1242 > 1292 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



CHRO: aph2w5kc 25-Apr-06 Elapse: 35:06 1308
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1278 > 1321 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area

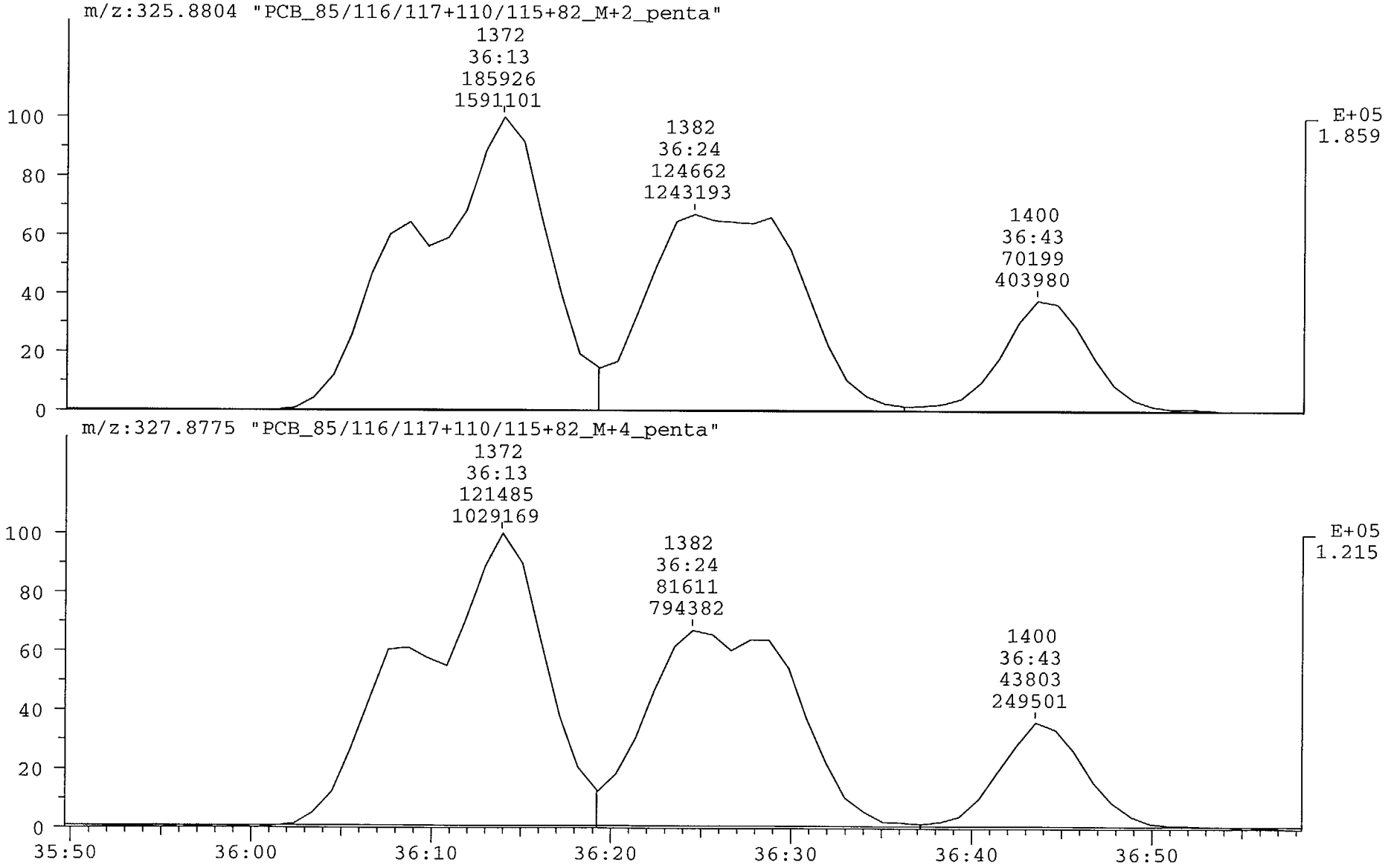


CHRO: aph2w5kc 25-Apr-06 Elapse: 35:28 1329
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1310 > 1352 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area

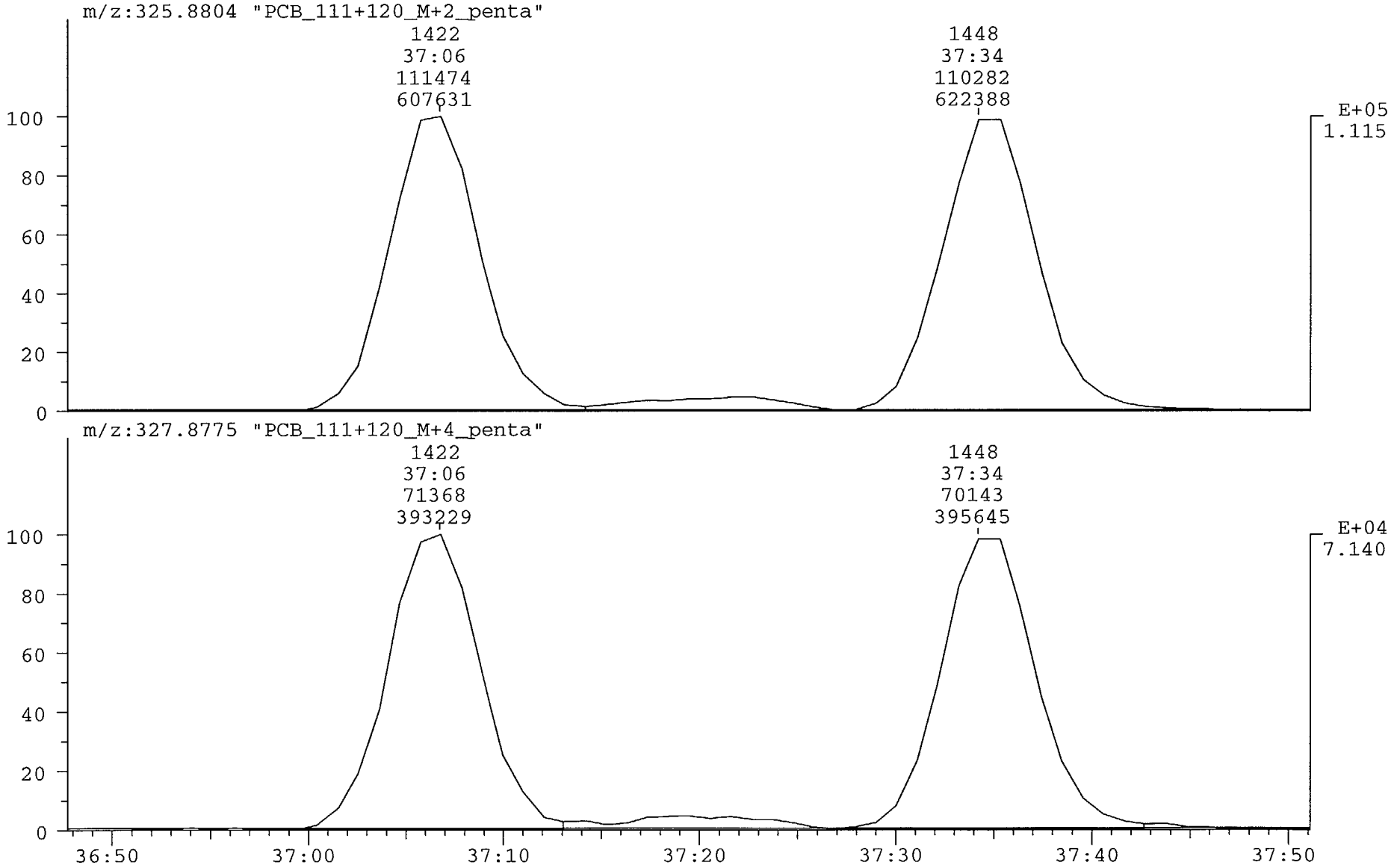


3277

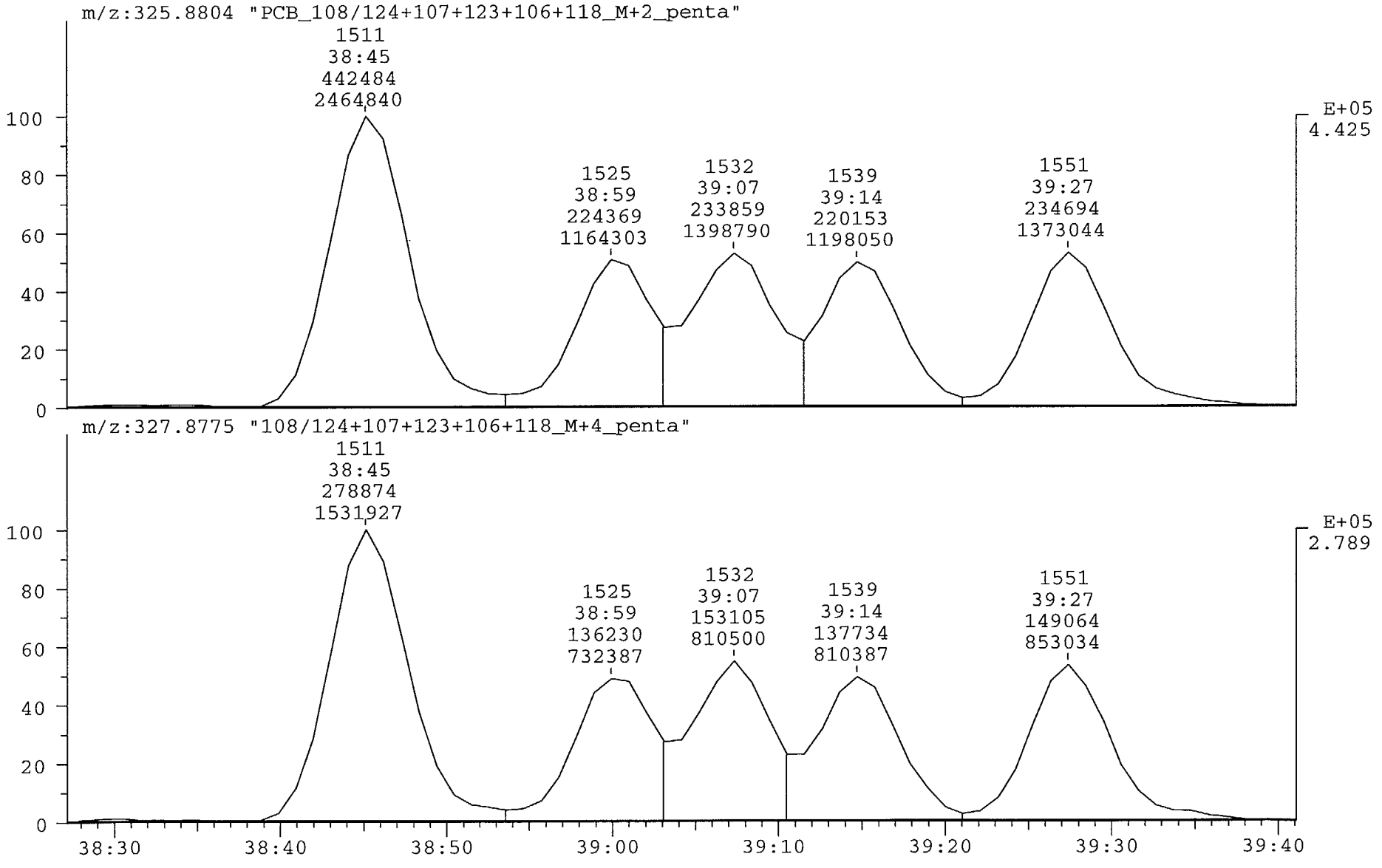
```
CHRO:  aph2w5kc                                25-Apr-06   Elapse:  36:31      1389
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                  Start :  11:04:47   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050C               Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   1349 > 1414          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 6               Label :  -3, 3.0
Disp:  Height  Area
```



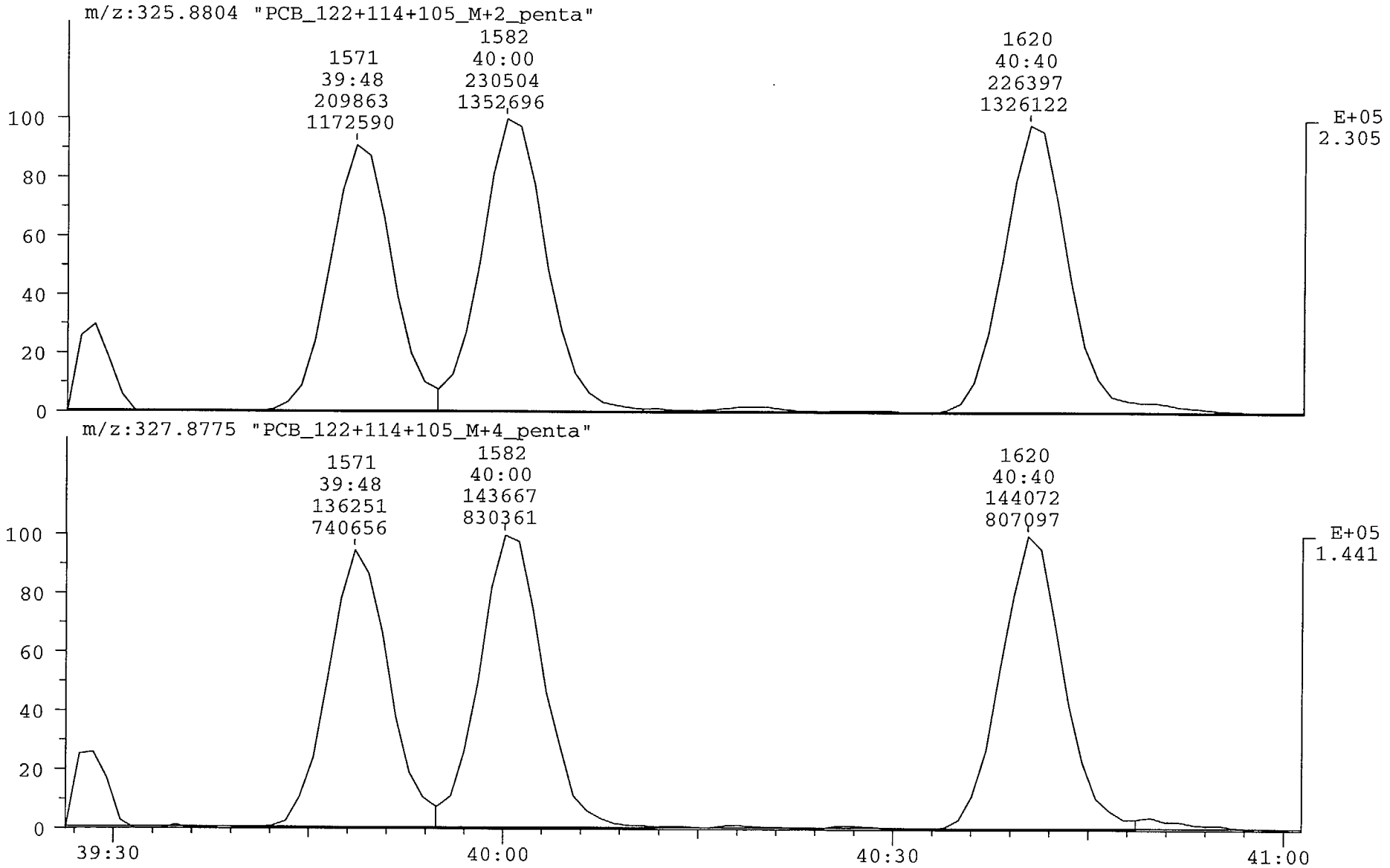
CHRO: aph2w5kc 25-Apr-06 Elapse: 37:08 1424
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1404 > 1464 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



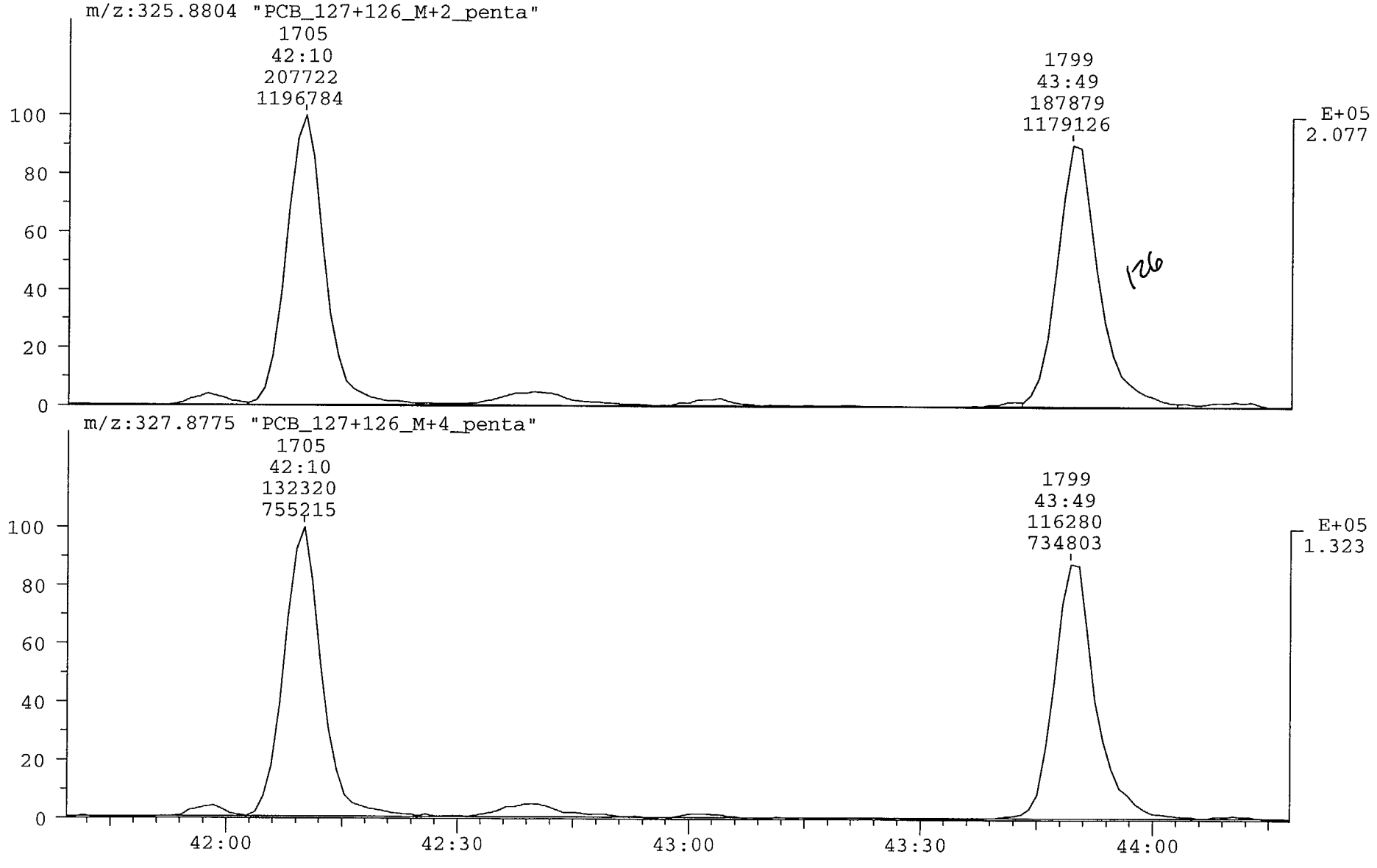
CHRO: aph2w5kc 25-Apr-06 Elapse: 39:09 1534
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1494 > 1564 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



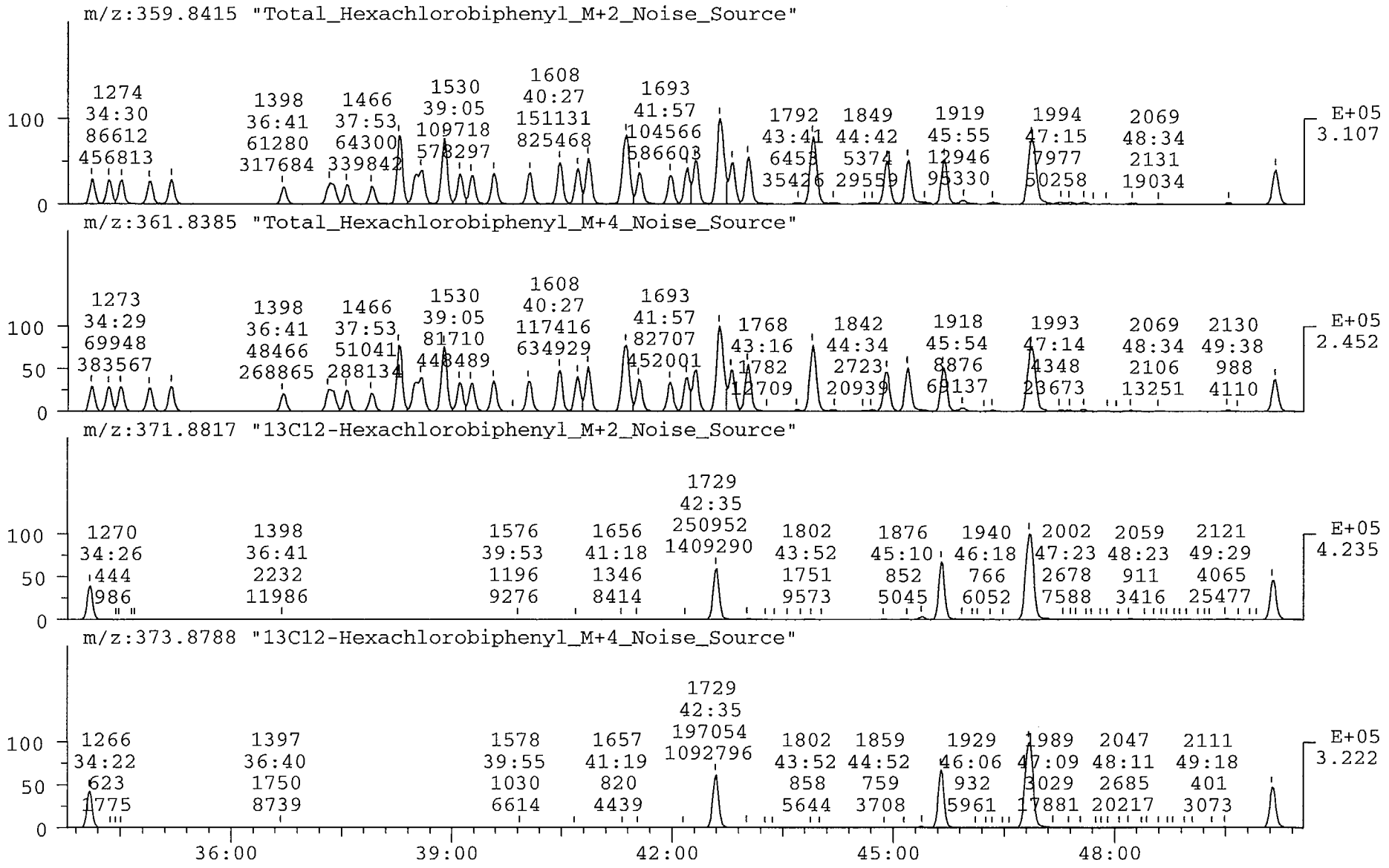
CHRO: aph2w5kc 25-Apr-06 Elapse: 40:15 1597
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1550 > 1640 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



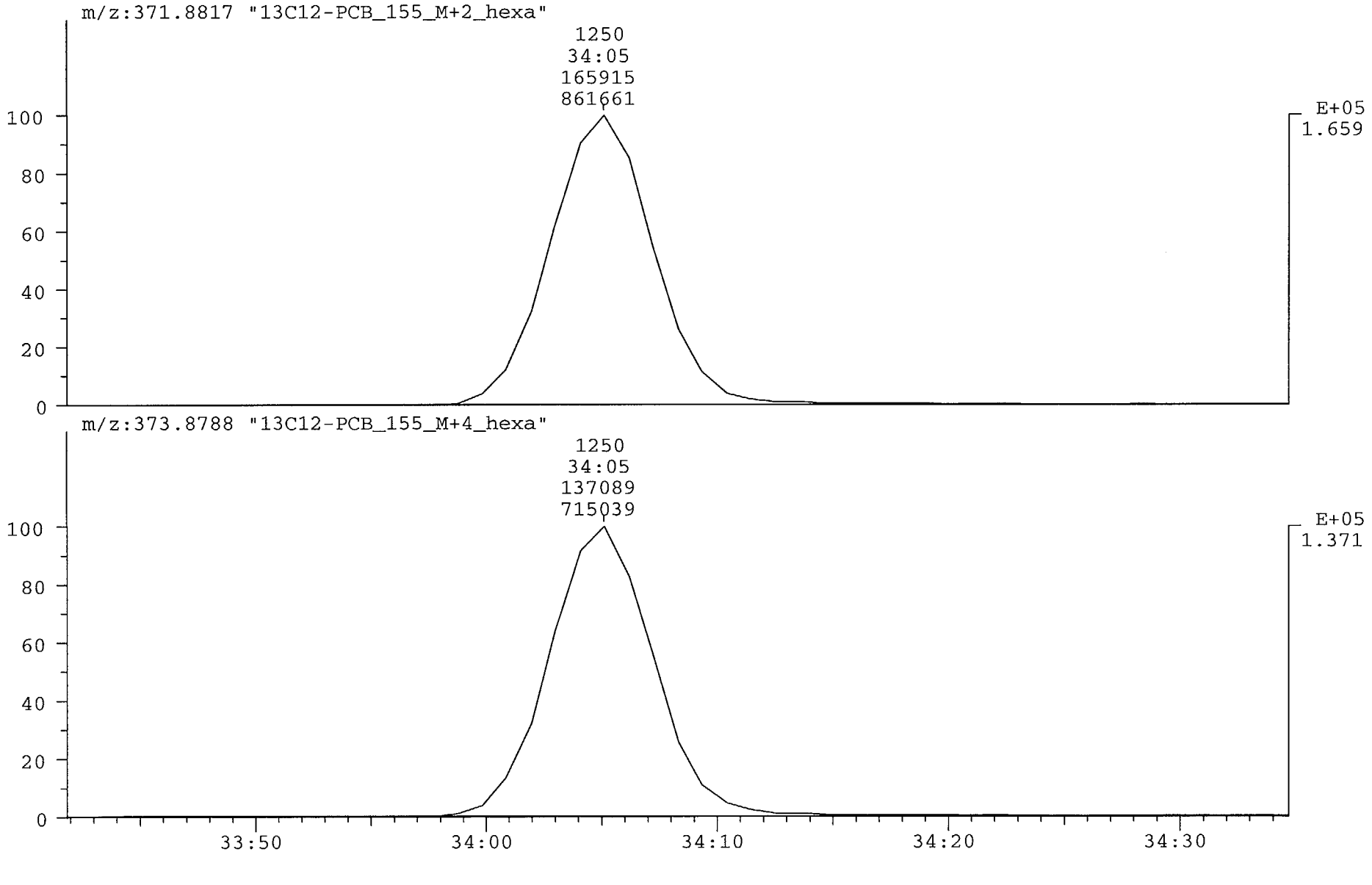
CHRO: aph2w5kc 25-Apr-06 Elapse: 42:58 1751
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1676 > 1826 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



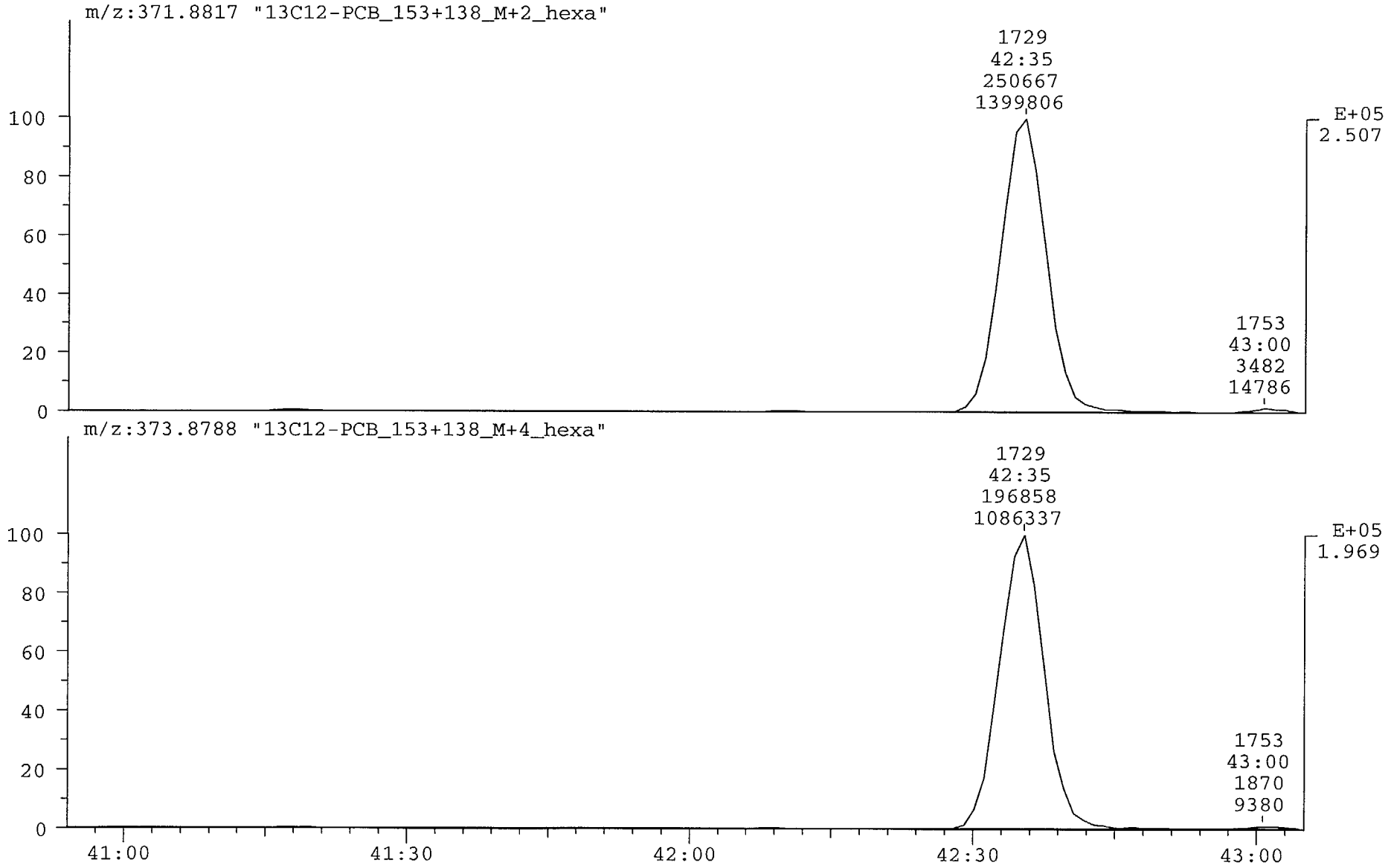
CHRO: aph2w5kc 25-Apr-06 Elapse: 42:10 1705
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1233 > 2181 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



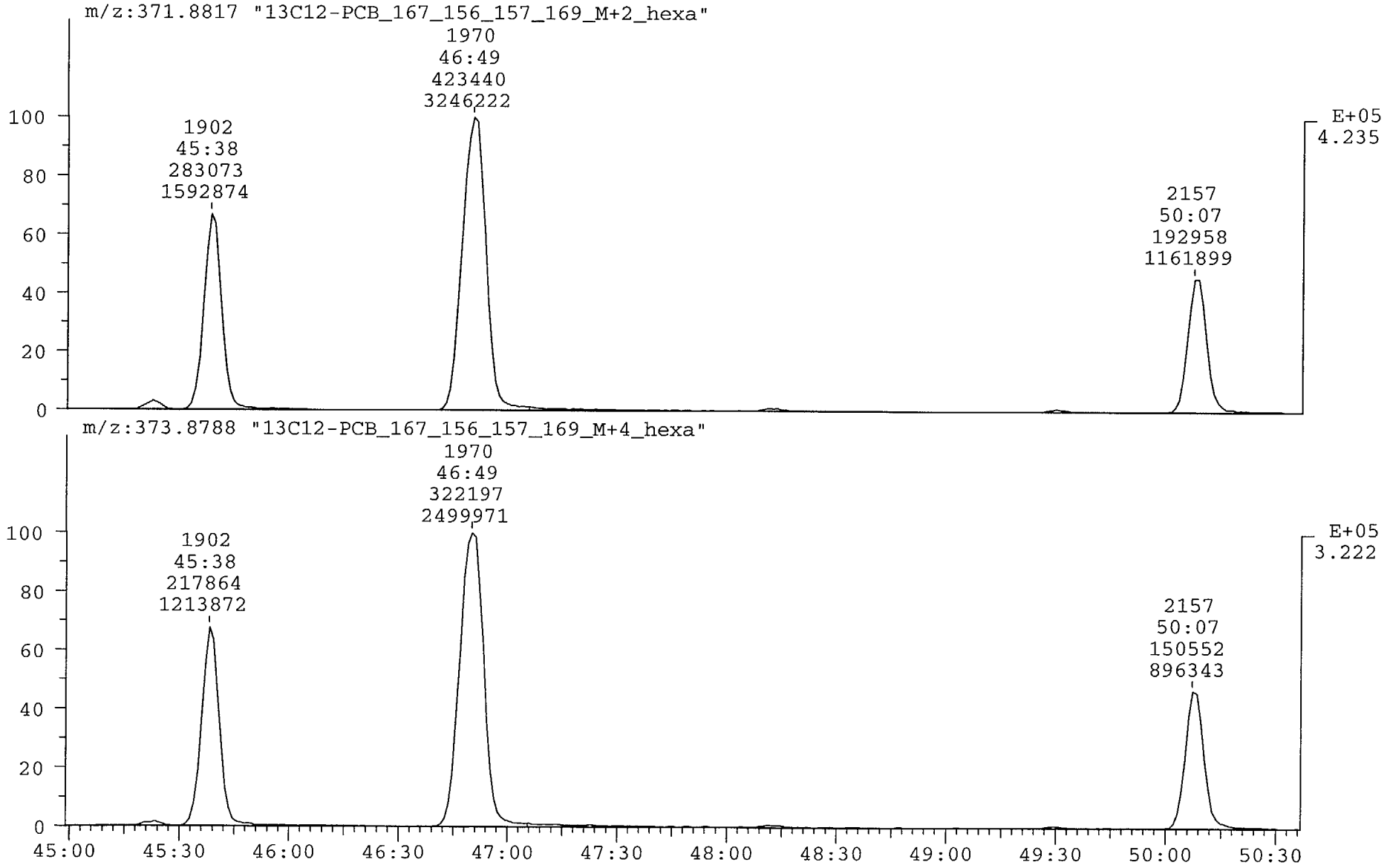
CHRO: aph2w5kc 25-Apr-06 Elapse: 34:08 1253
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1228 > 1278 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



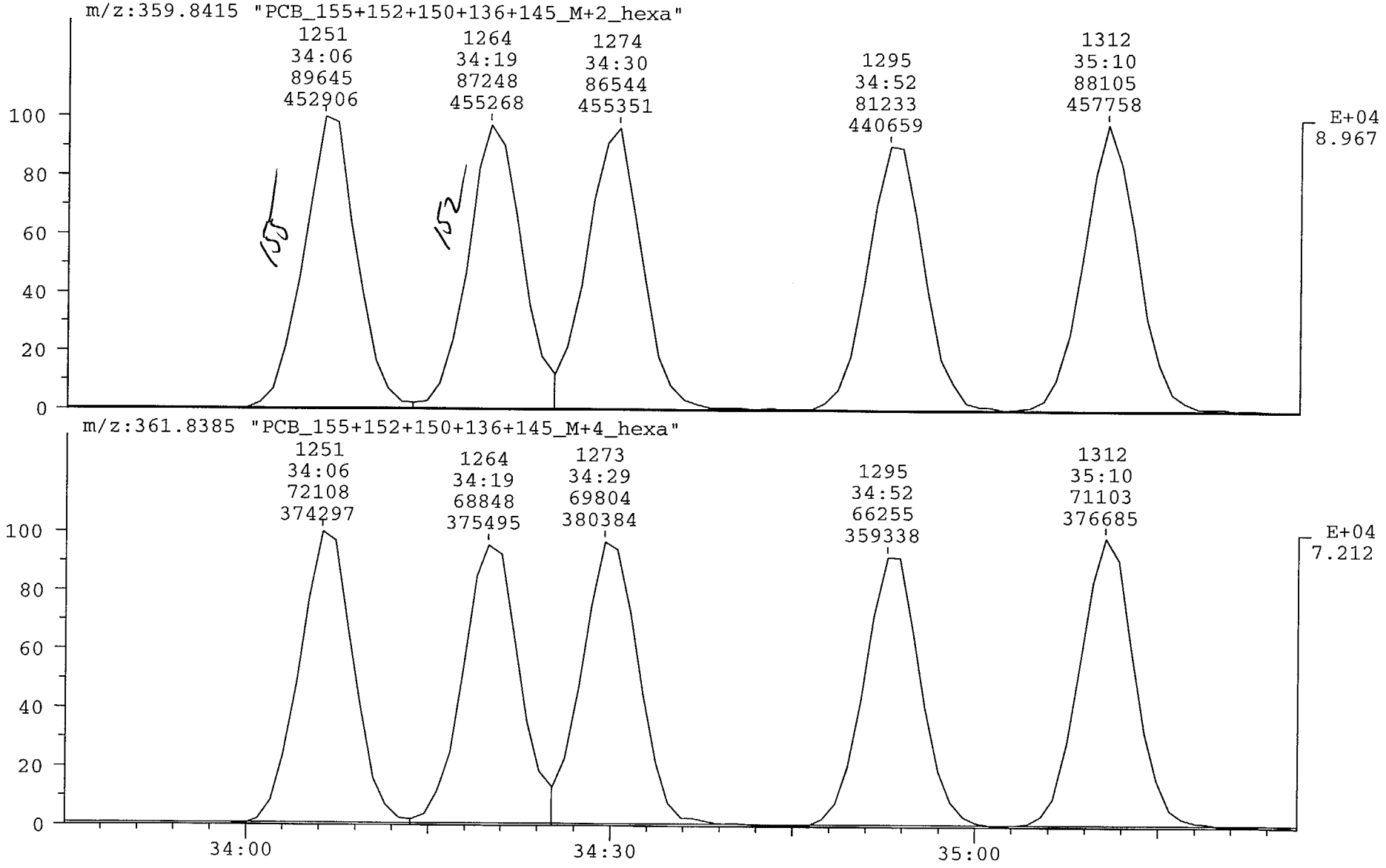
CHRO: aph2w5kc 25-Apr-06 Elapse: 41:59 1695
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1633 > 1757 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



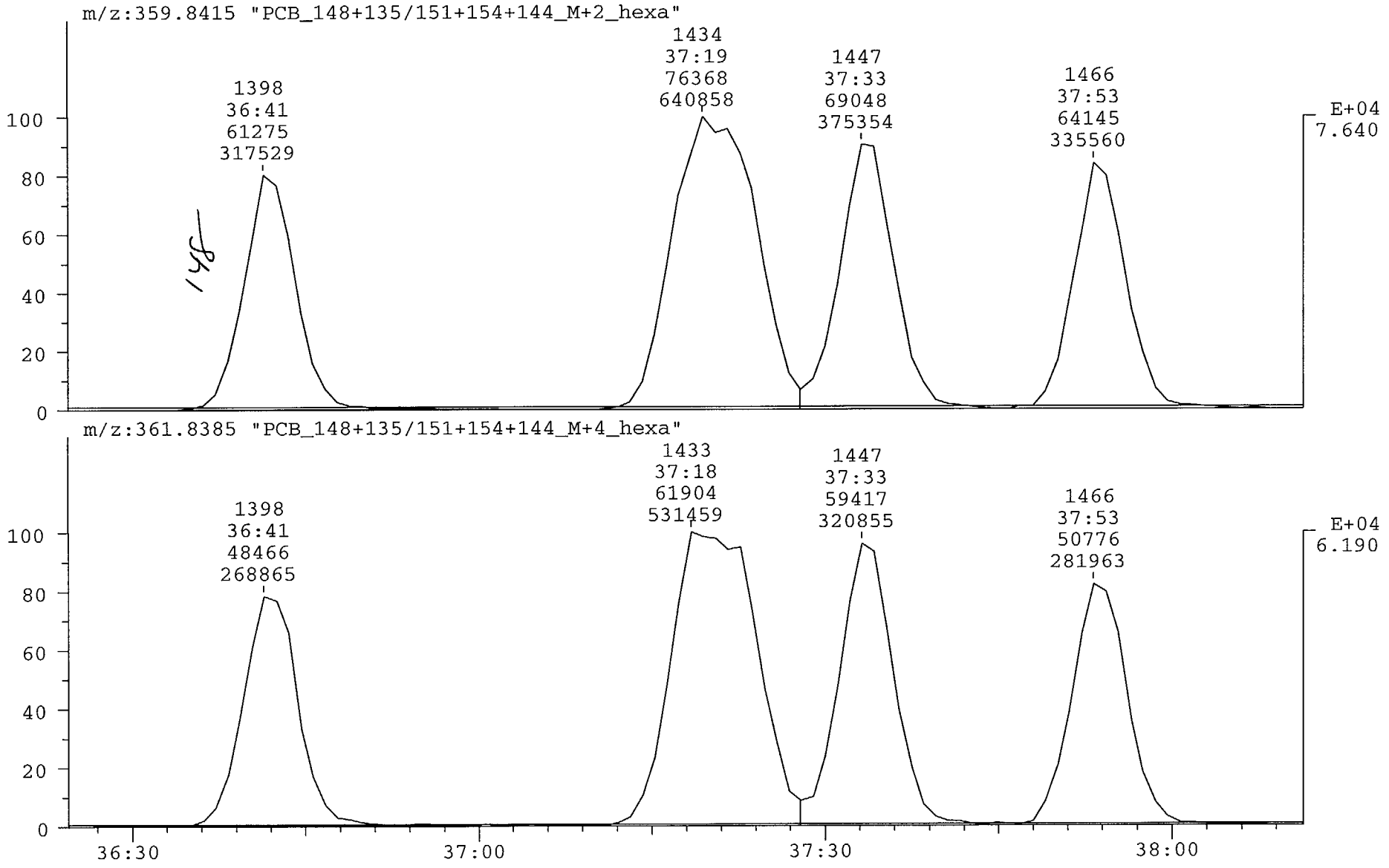
```
CHRO:  aph2w5kc                                25-Apr-06   Elapse:  47:53      2030
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                  Start :  11:04:47   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050C               Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   1865 > 2185          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



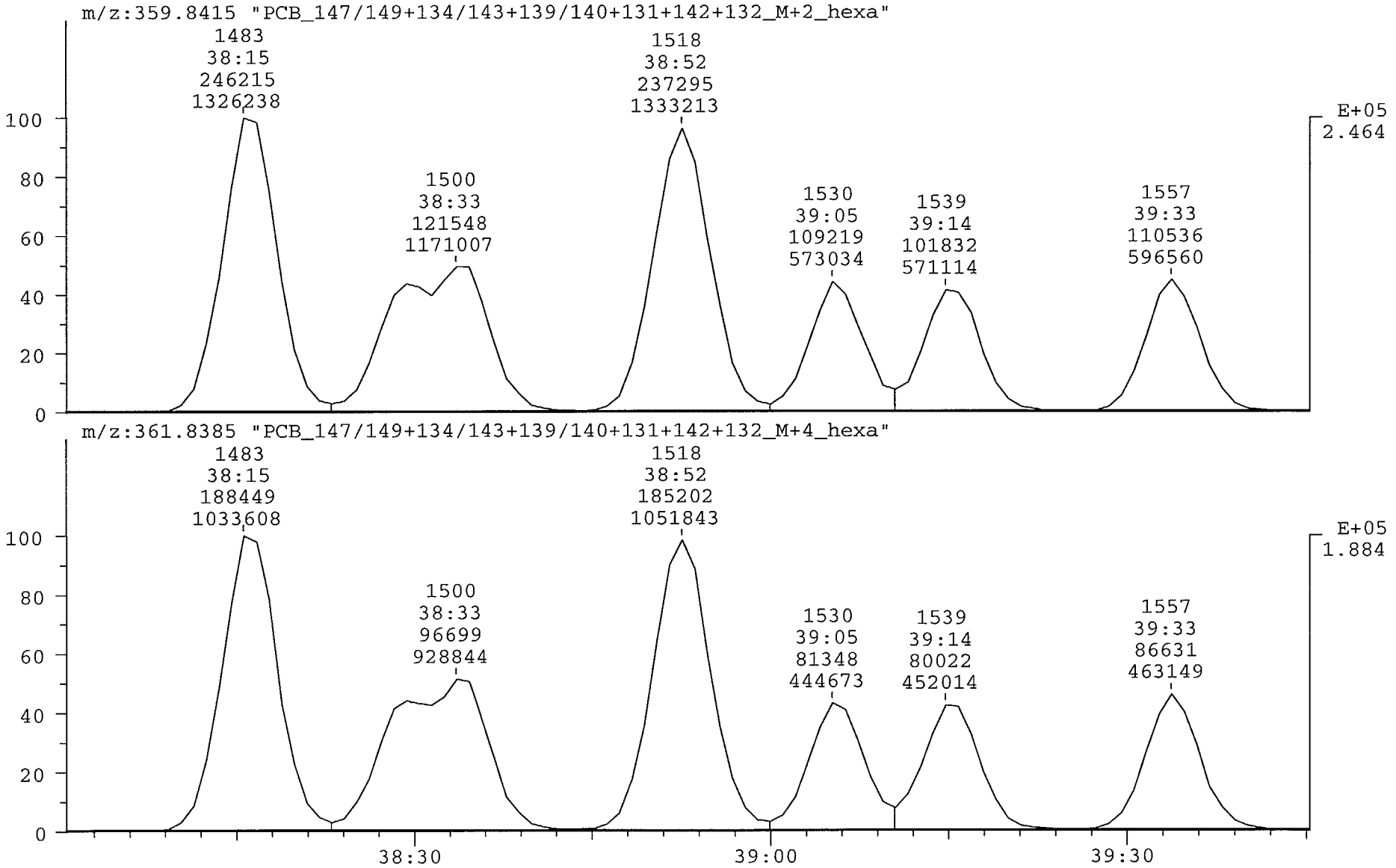
CHRO: aph2w5kc 25-Apr-06 Elapse: 34:44 1287
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1231 > 1327 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



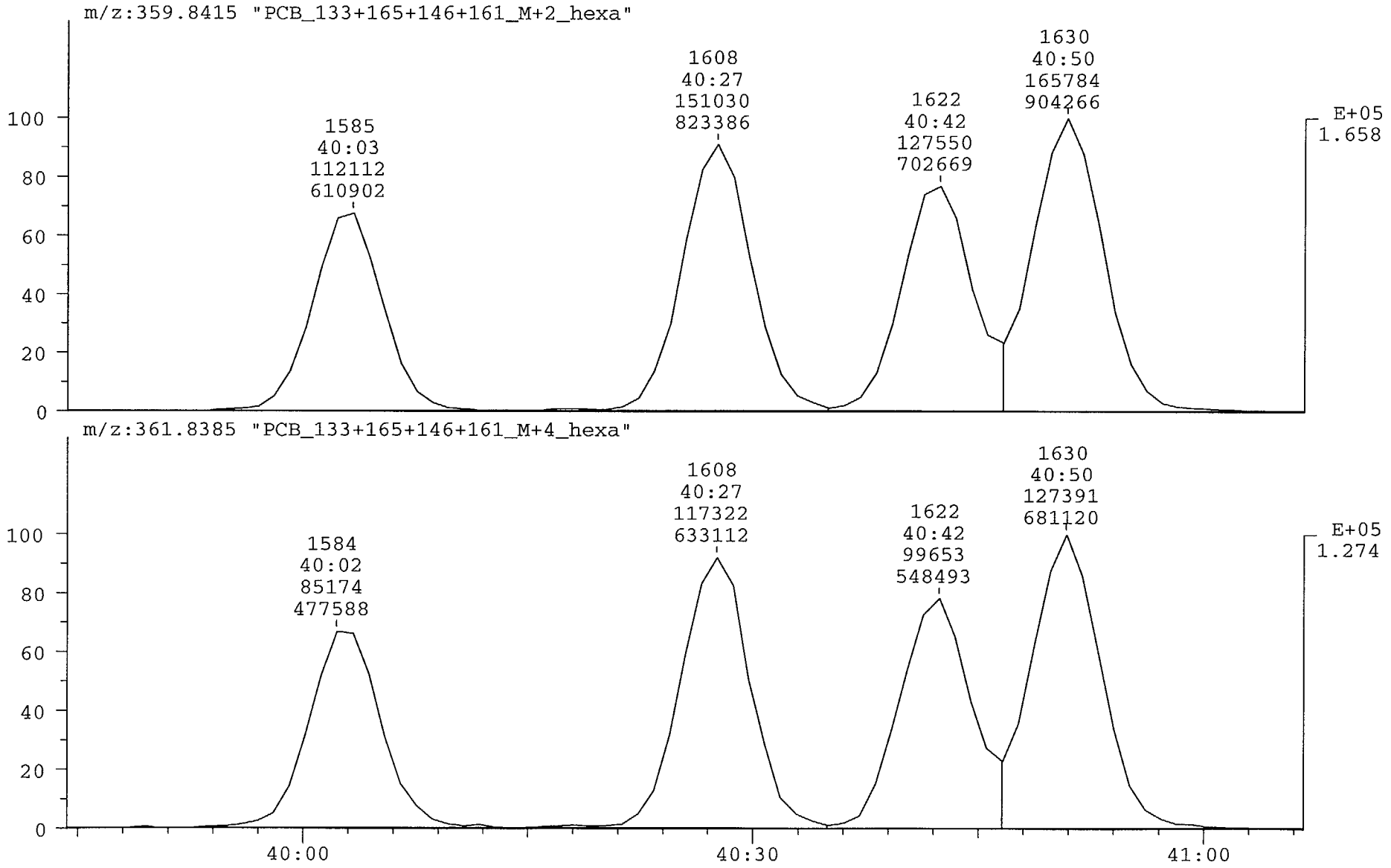
```
CHRO:  aph2w5kc                                25-Apr-06   Elapse:  37:20      1435
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                  Start :  11:04:47   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050C               Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   1382 > 1479          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



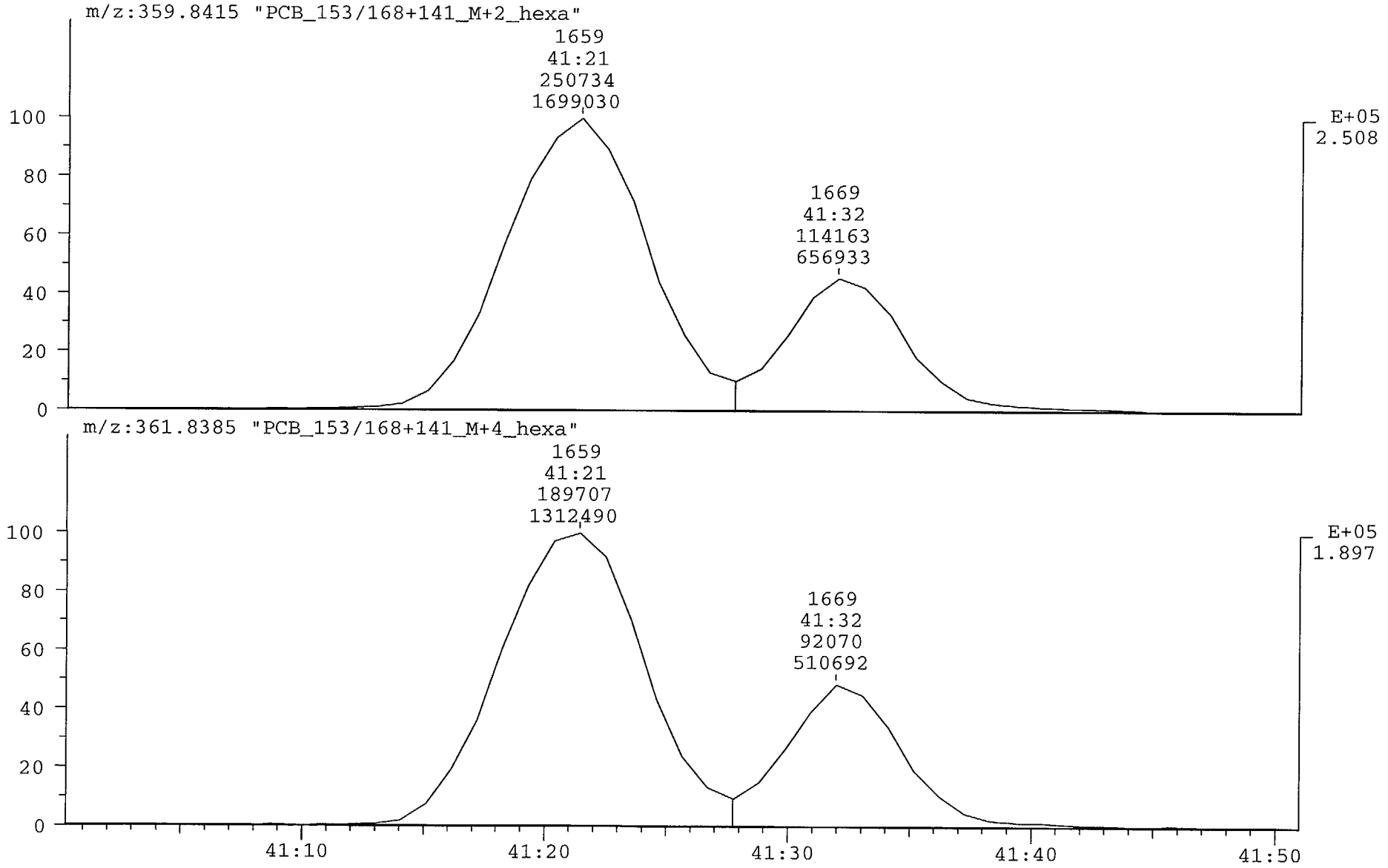
```
CHRO:  aph2w5kc                                25-Apr-06   Elapse:   38:52      1518
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                  Start :   11:04:47   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :   6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050C              Inlet :   GC     Vial  56
Peak:  100.00  ppm     Label wndw:   1473 > 1568          Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5               Label :   -3, 3.0
Disp:  Height  Area
```



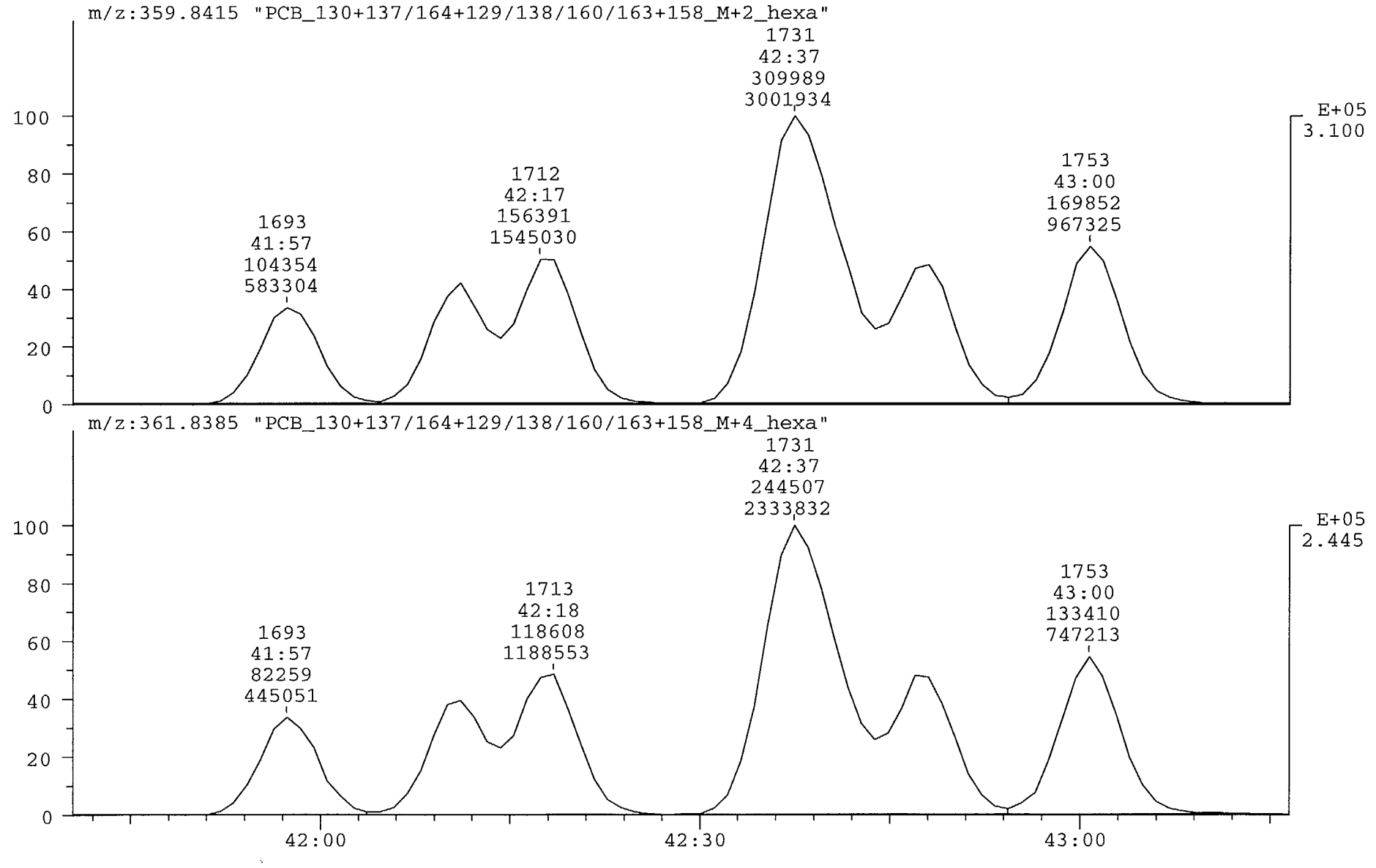
CHRO: aph2w5kc 25-Apr-06 Elapse: 40:28 1609
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1567 > 1645 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



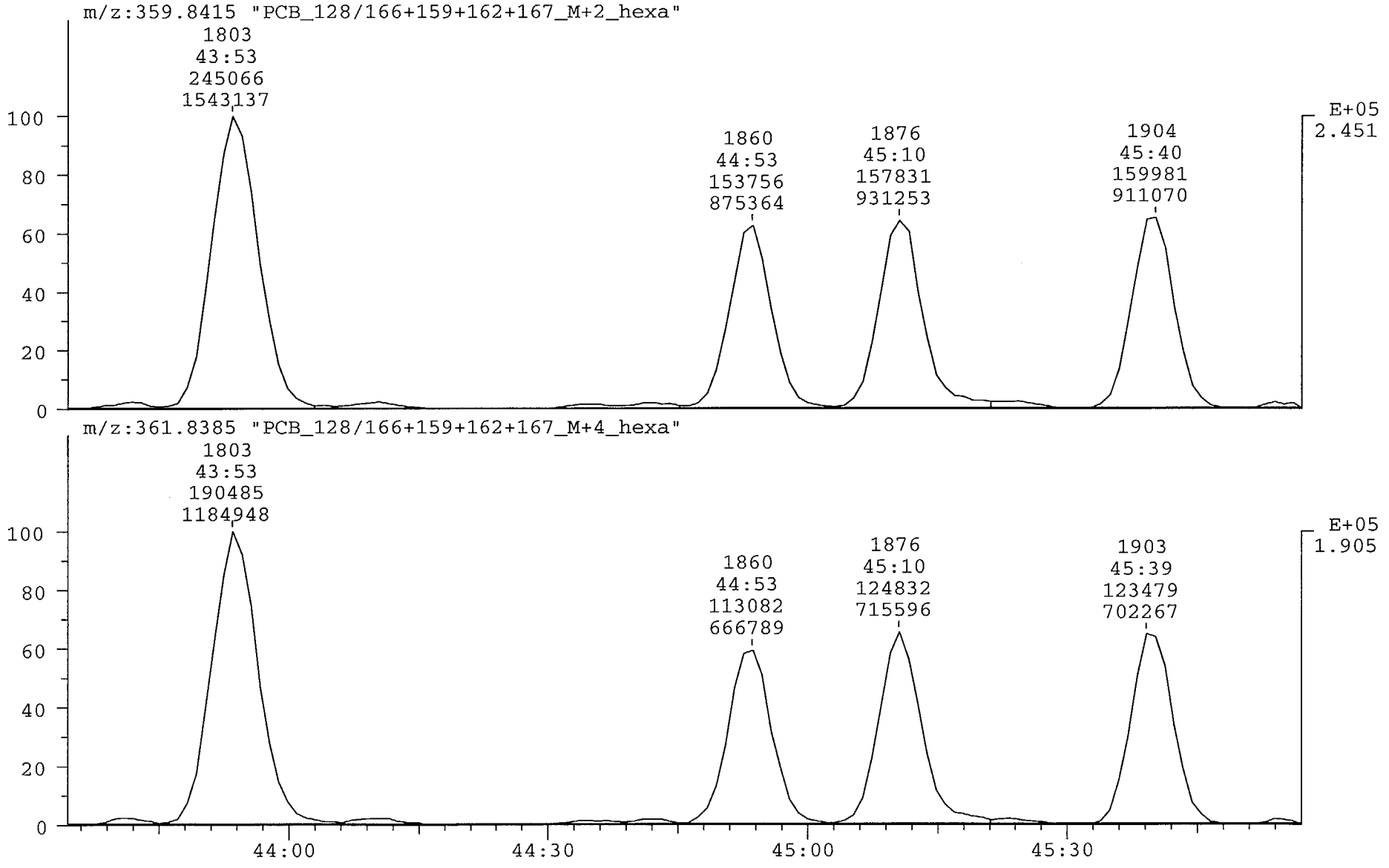
CHRO: aph2w5kc 25-Apr-06 Elapse: 41:29 1667
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1639 > 1687 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



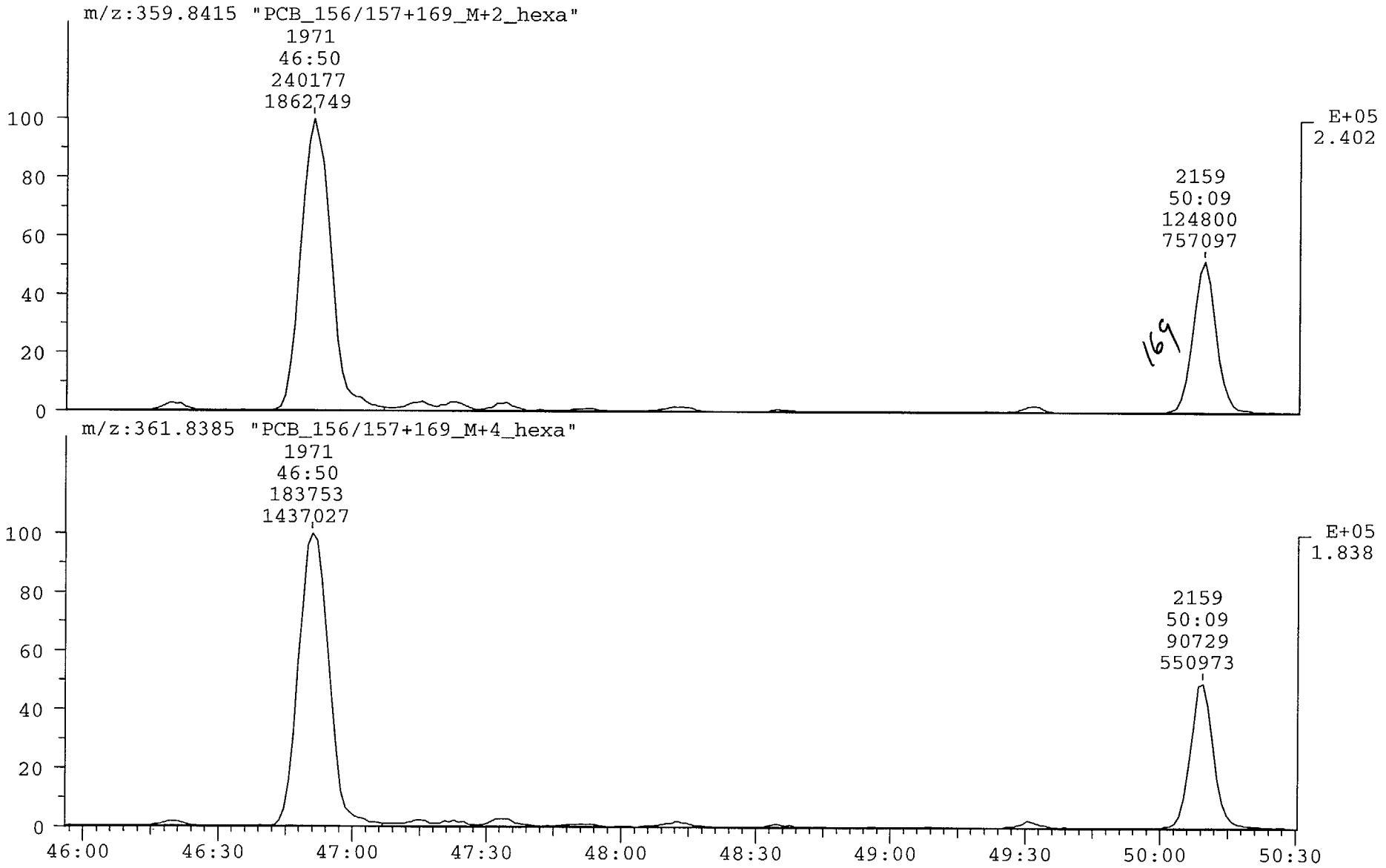
CHRO: aph2w5kc 25-Apr-06 Elapse: 42:31 1725
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1677 > 1768 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



```
CHRO:  aph2w5kc                                25-Apr-06   Elapse:  44:48      1855
Samp:  Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1                  Start :  11:04:47   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050C               Inlet :  GC     Vial  56
Peak:  100.00  ppm     Label wndw:   1785 > 1920          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :  -3, 3.0
Disp:  Height  Area
```

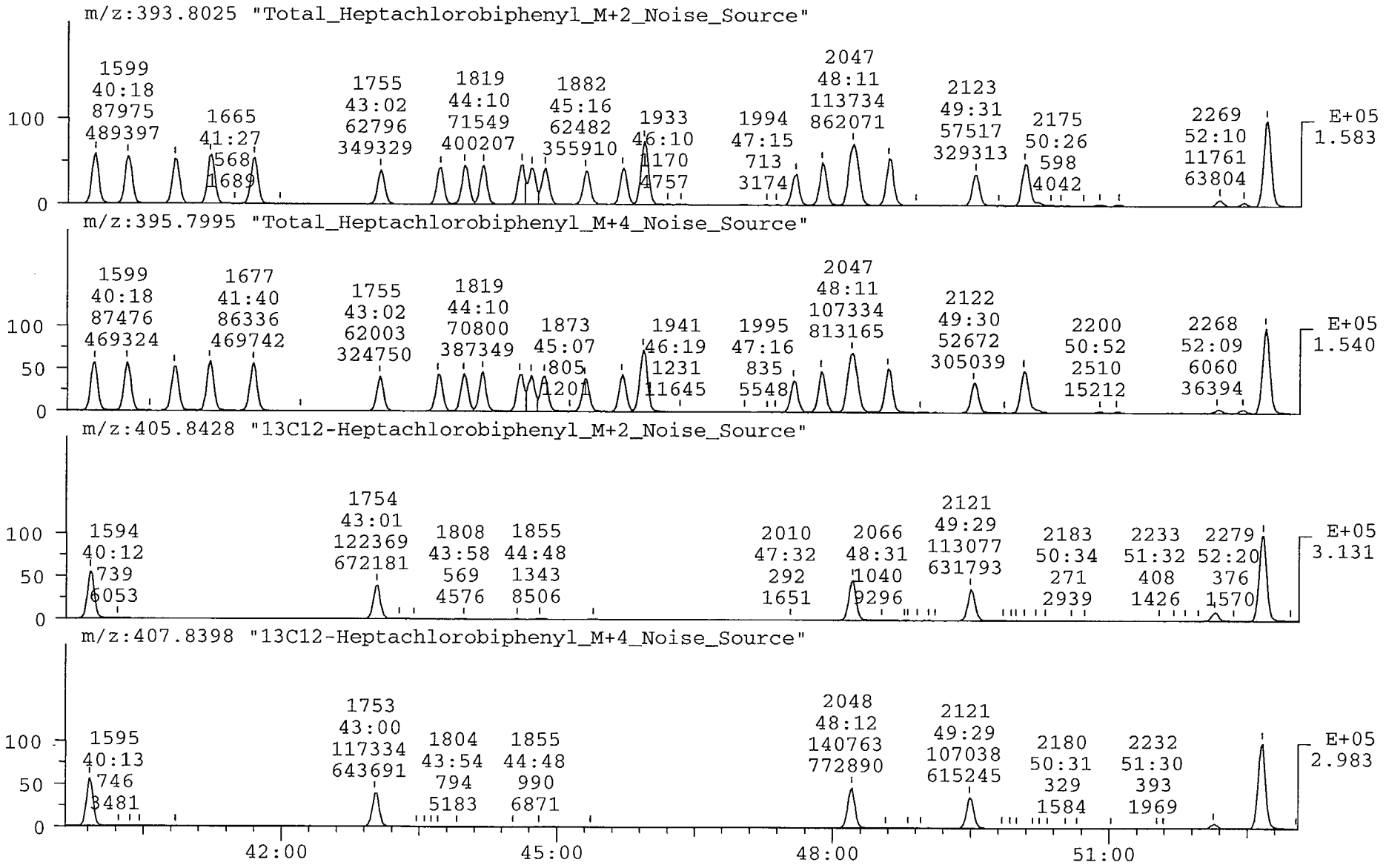


CHRO: aph2w5kc 25-Apr-06 Elapse: 48:29 2064
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1919 > 2179 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

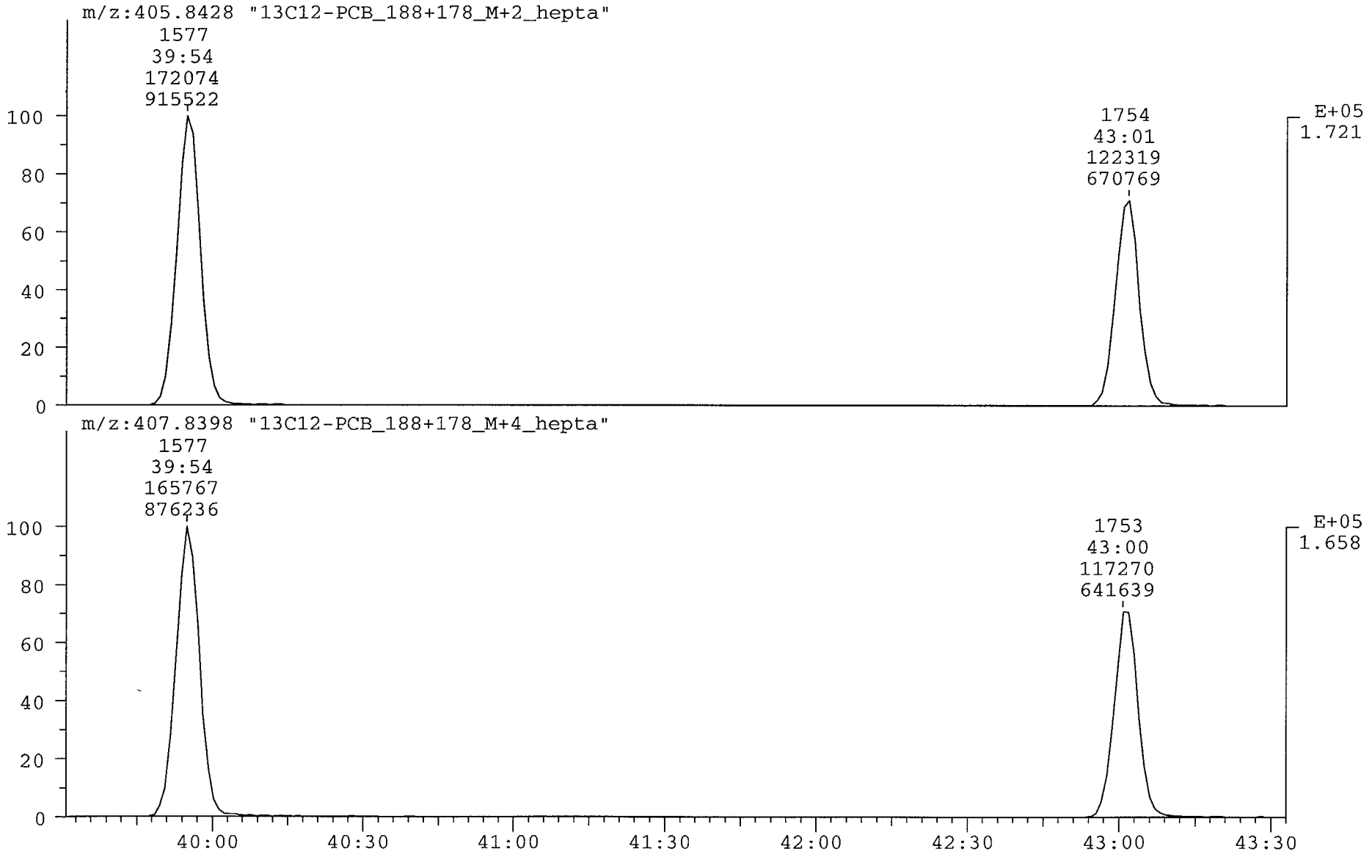


3294

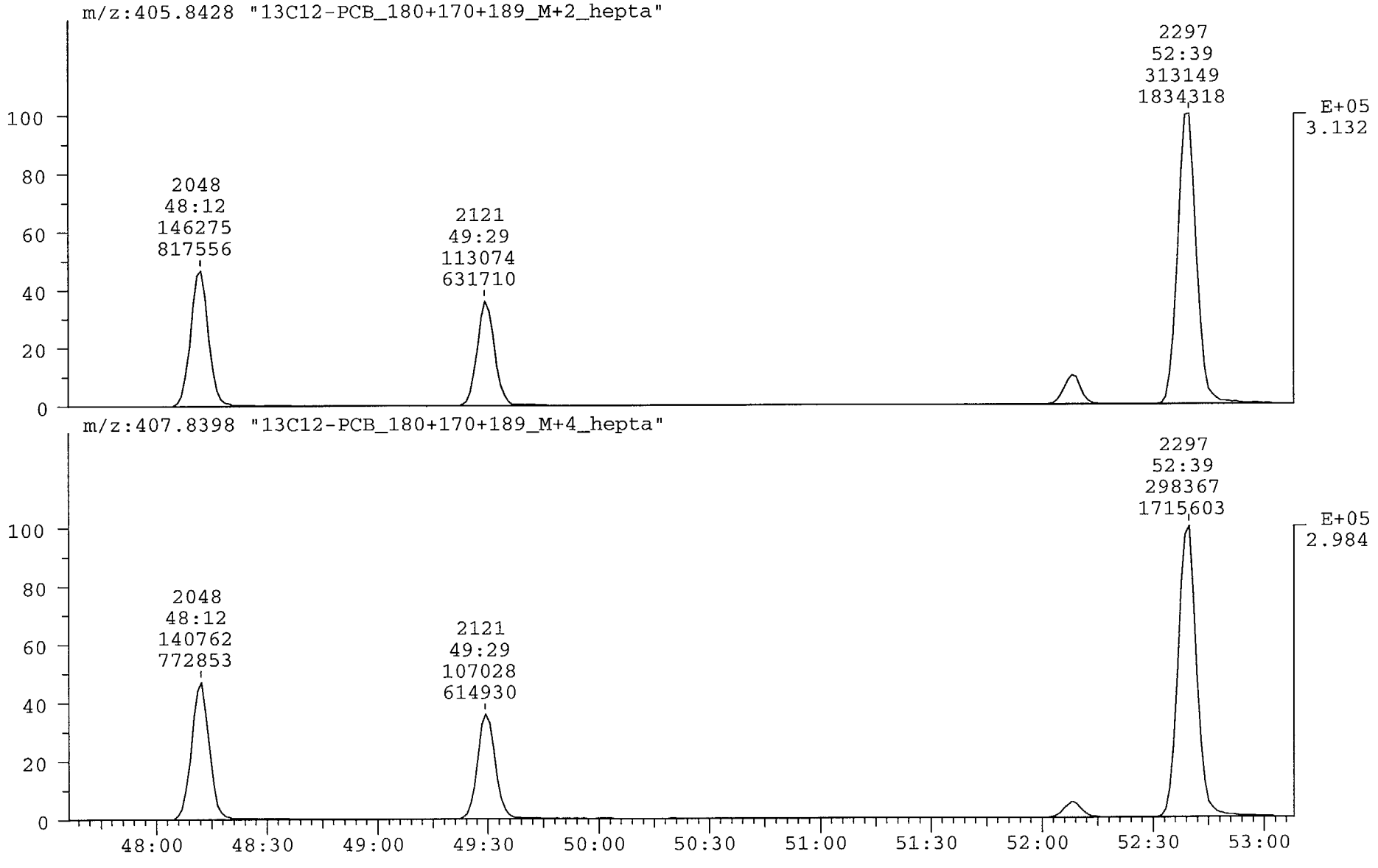
CHRO: aph2w5kc 25-Apr-06 Elapse: 46:21 1943
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1562 > 2319 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



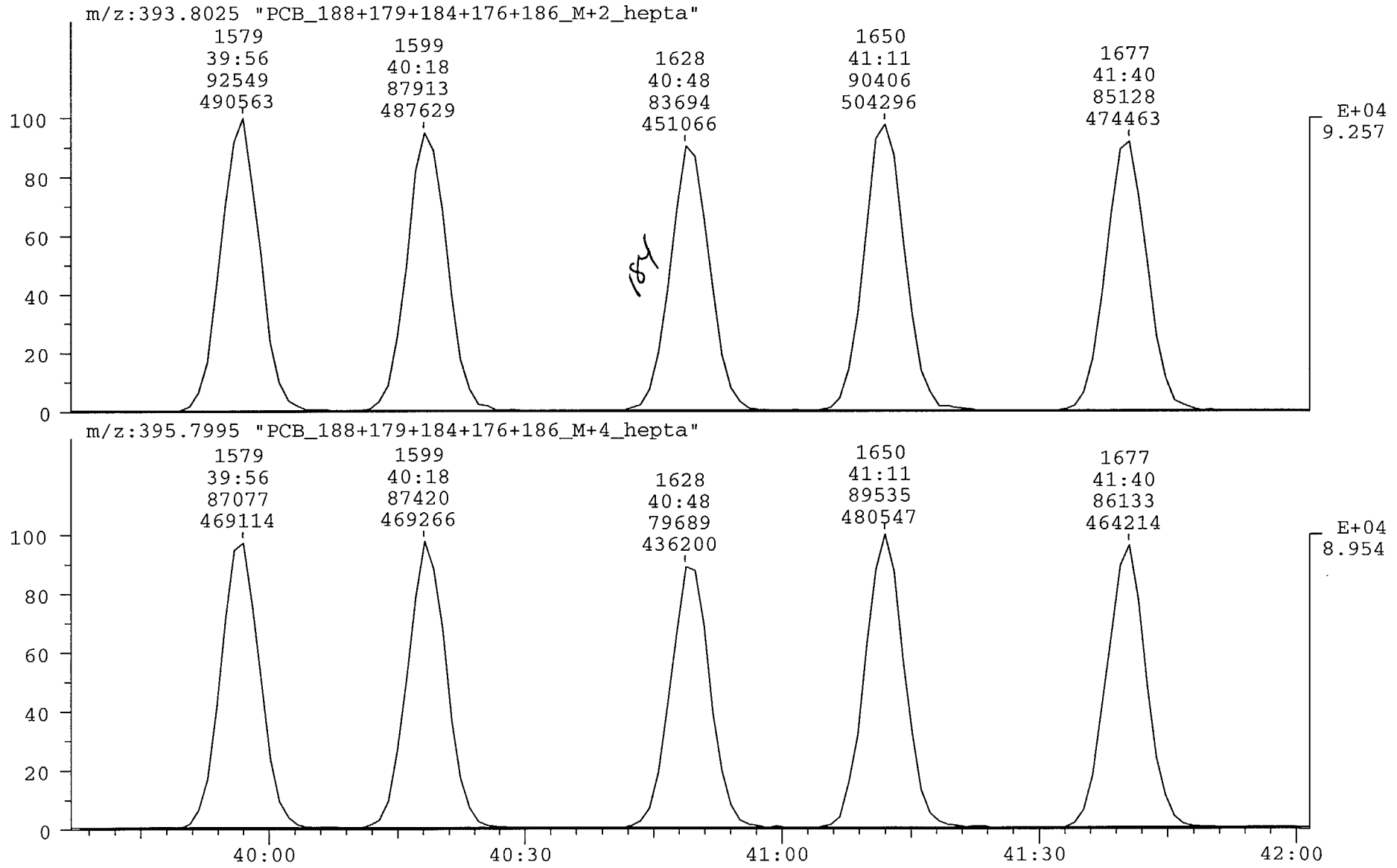
CHRO: aph2w5kc 25-Apr-06 Elapse: 41:32 1669
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1554 > 1784 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



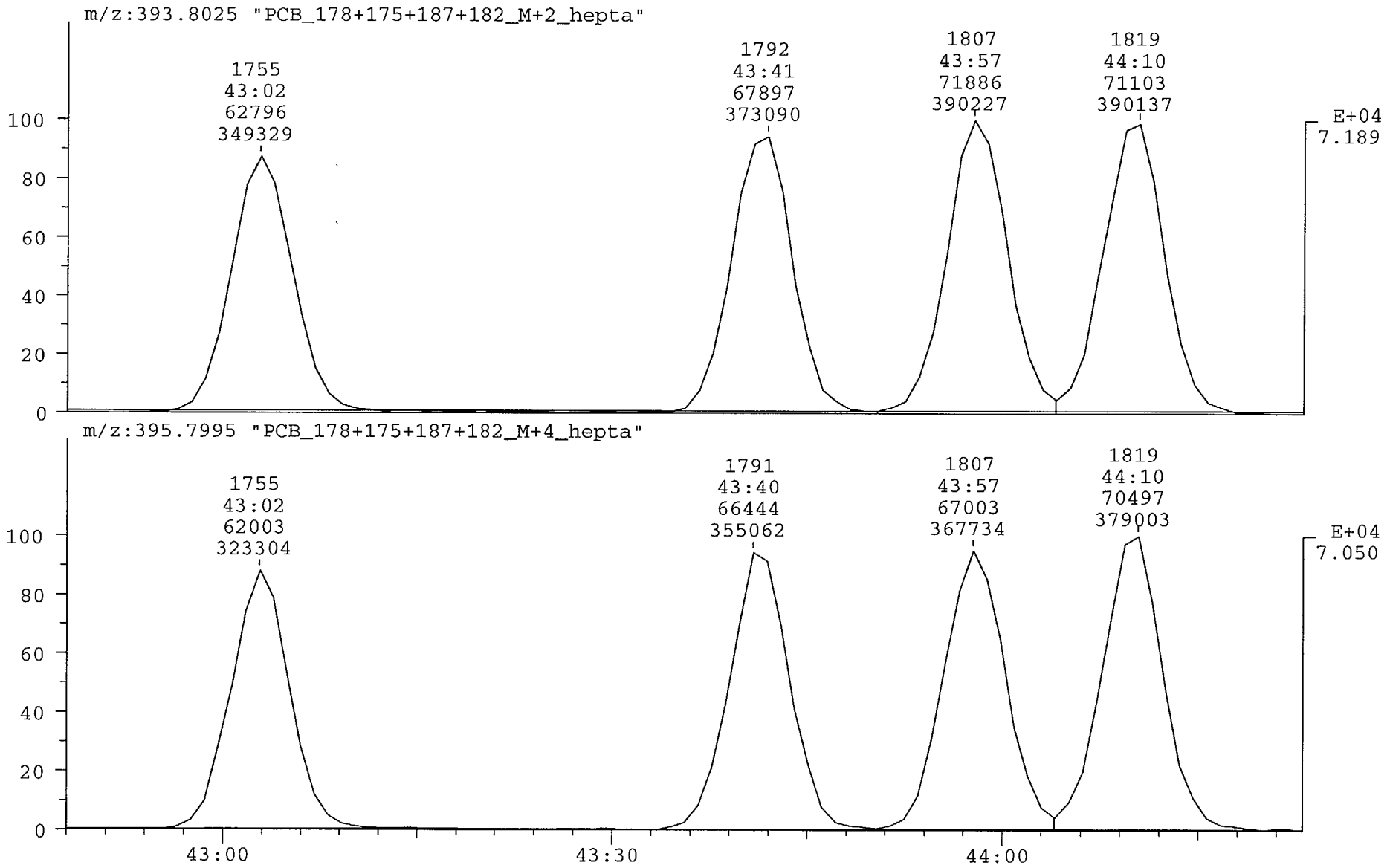
CHRO: aph2w5kc 25-Apr-06 Elapse: 50:25 2174
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2014 > 2324 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



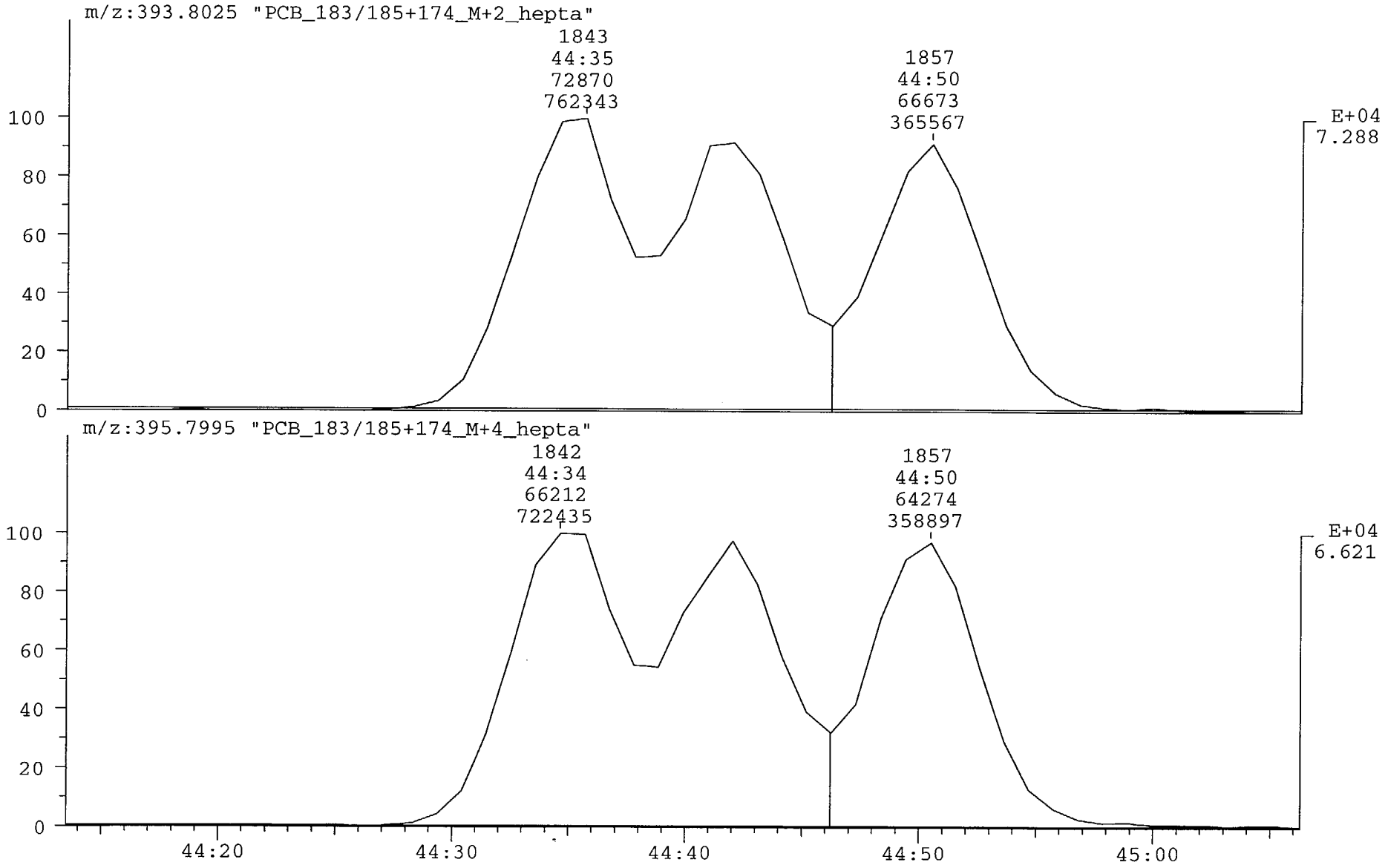
CHRO: aph2w5kc 25-Apr-06 Elapse: 40:52 1632
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1560 > 1697 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



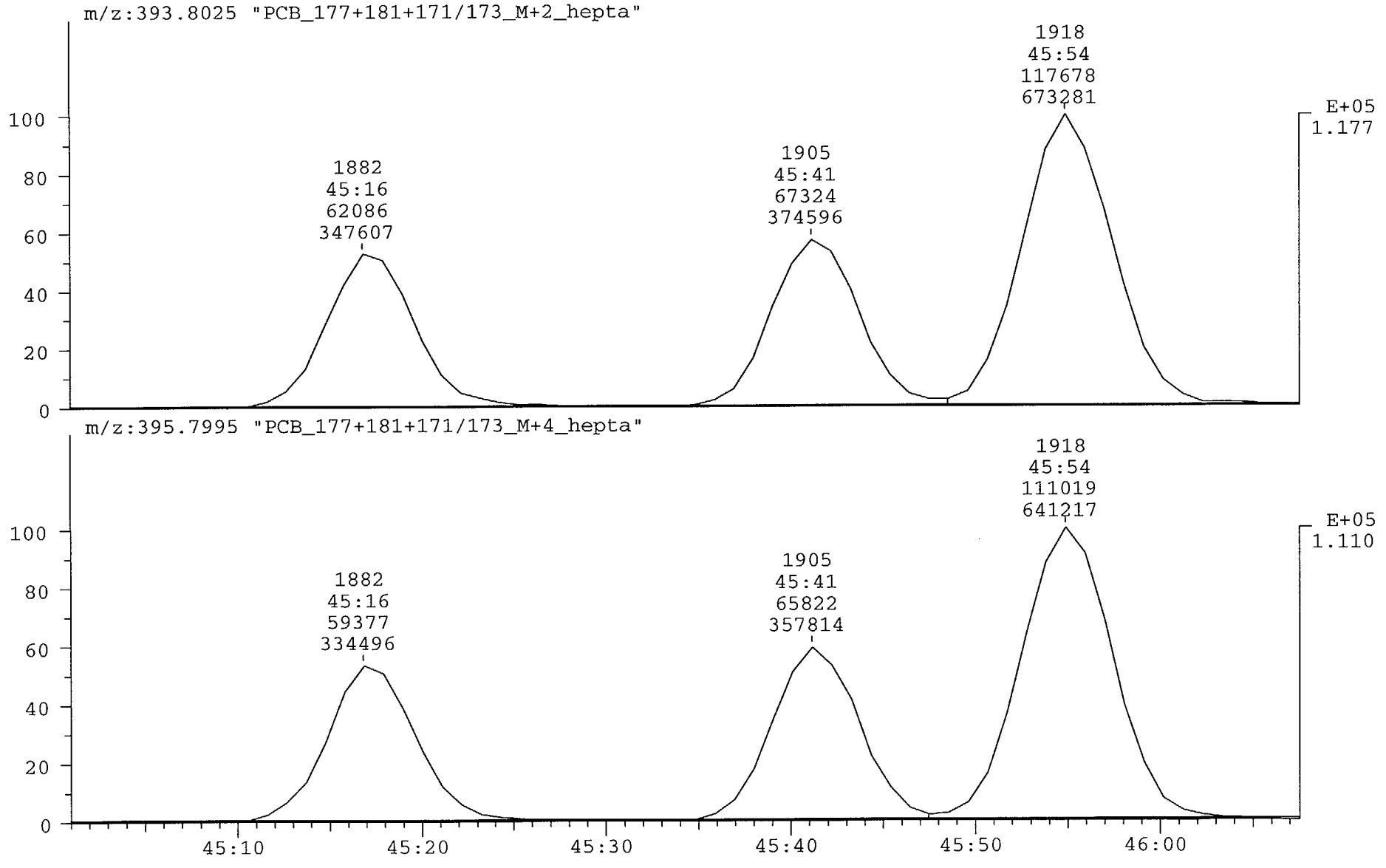
CHRO: aph2w5kc 25-Apr-06 Elapse: 43:40 1791
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1741 > 1831 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



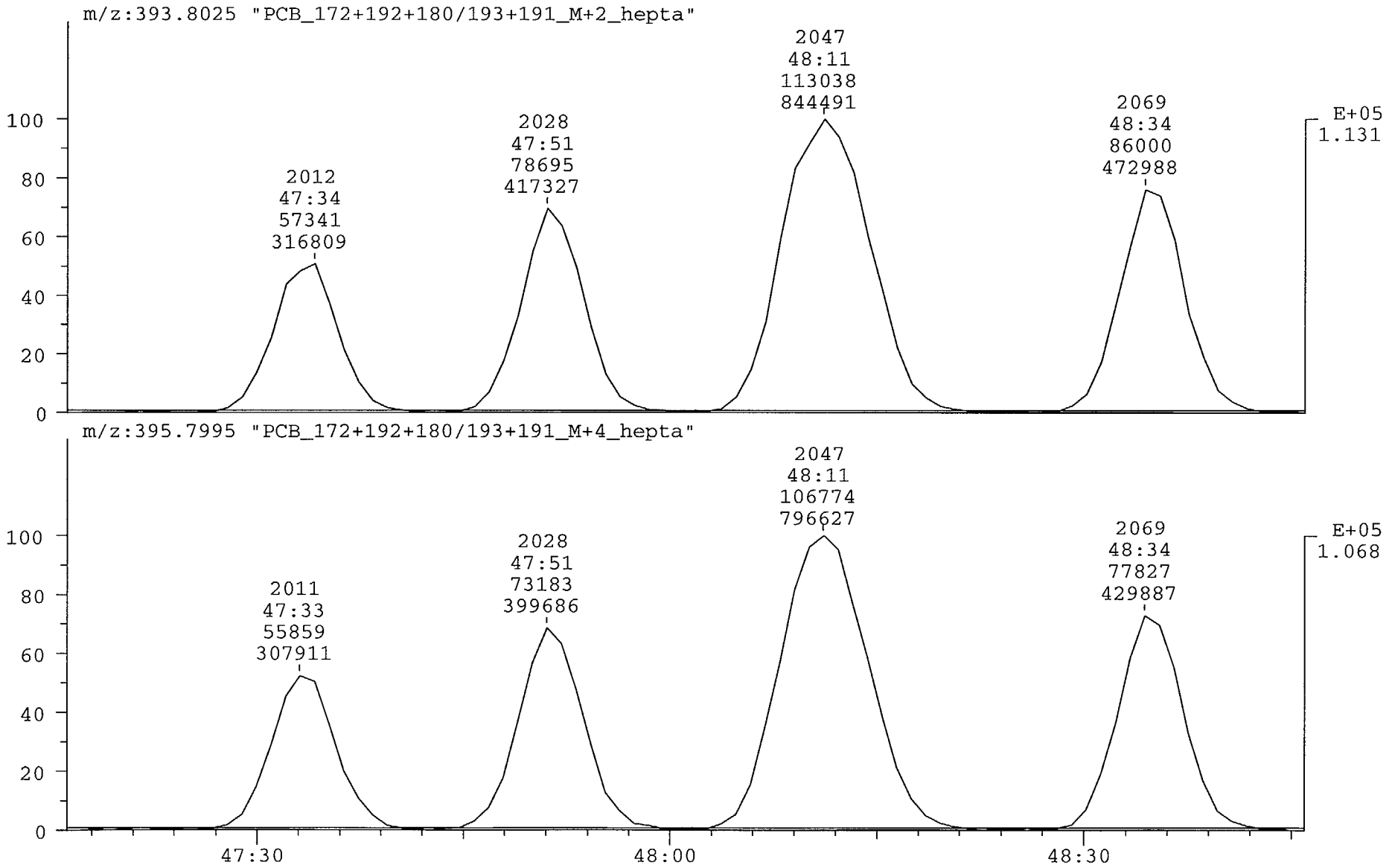
CHRO: aph2w5kc 25-Apr-06 Elapse: 44:50 1857
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1822 > 1872 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 6 Label : -3, 3.0
Disp: Height Area



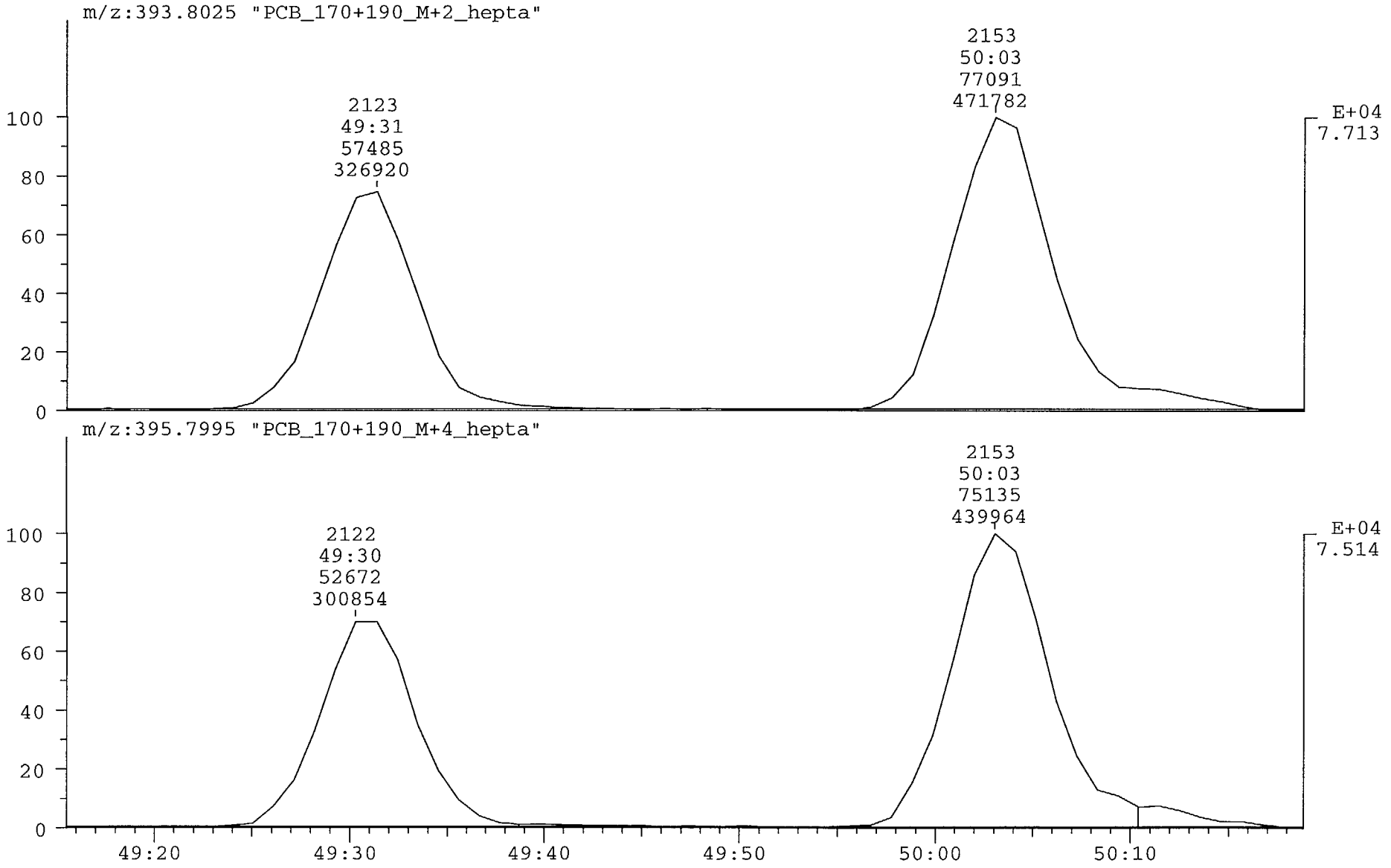
CHRO: aph2w5kc 25-Apr-06 Elapse: 45:41 1905
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1867 > 1930 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



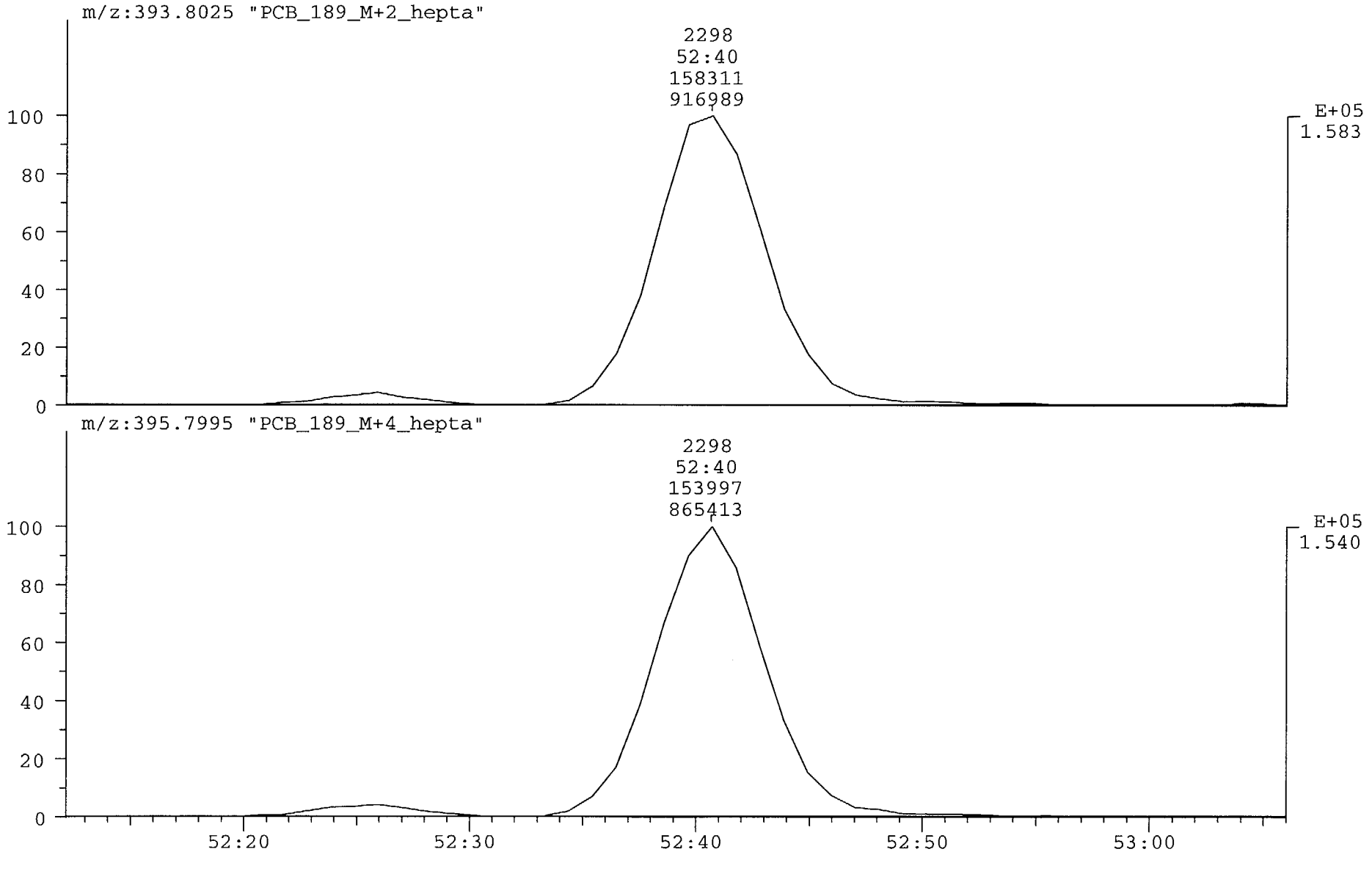
CHRO: aph2w5kc 25-Apr-06 Elapse: 48:09 2045
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1995 > 2080 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



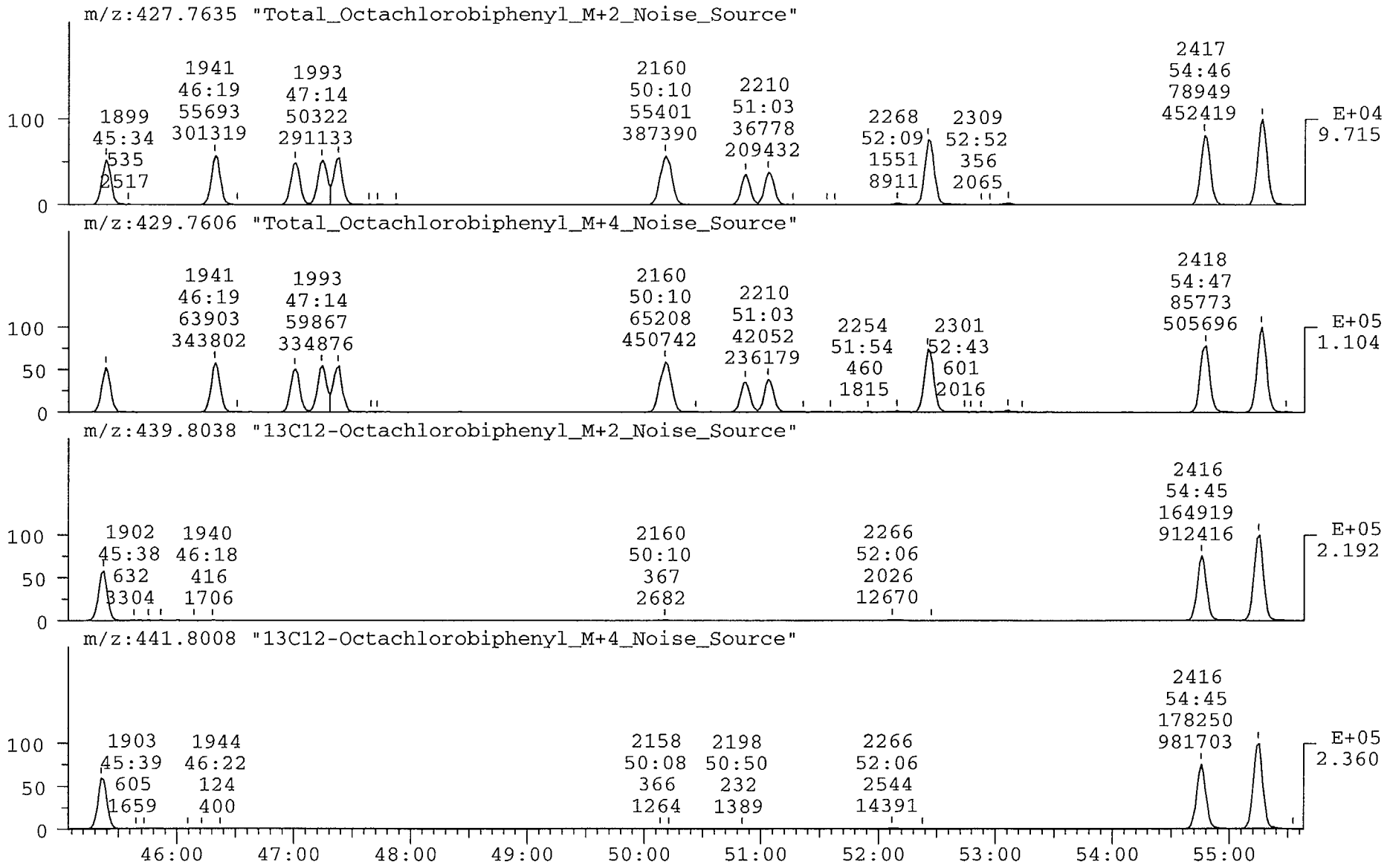
CHRO: aph2w5kc 25-Apr-06 Elapse: 49:47 2138
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2108 > 2168 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



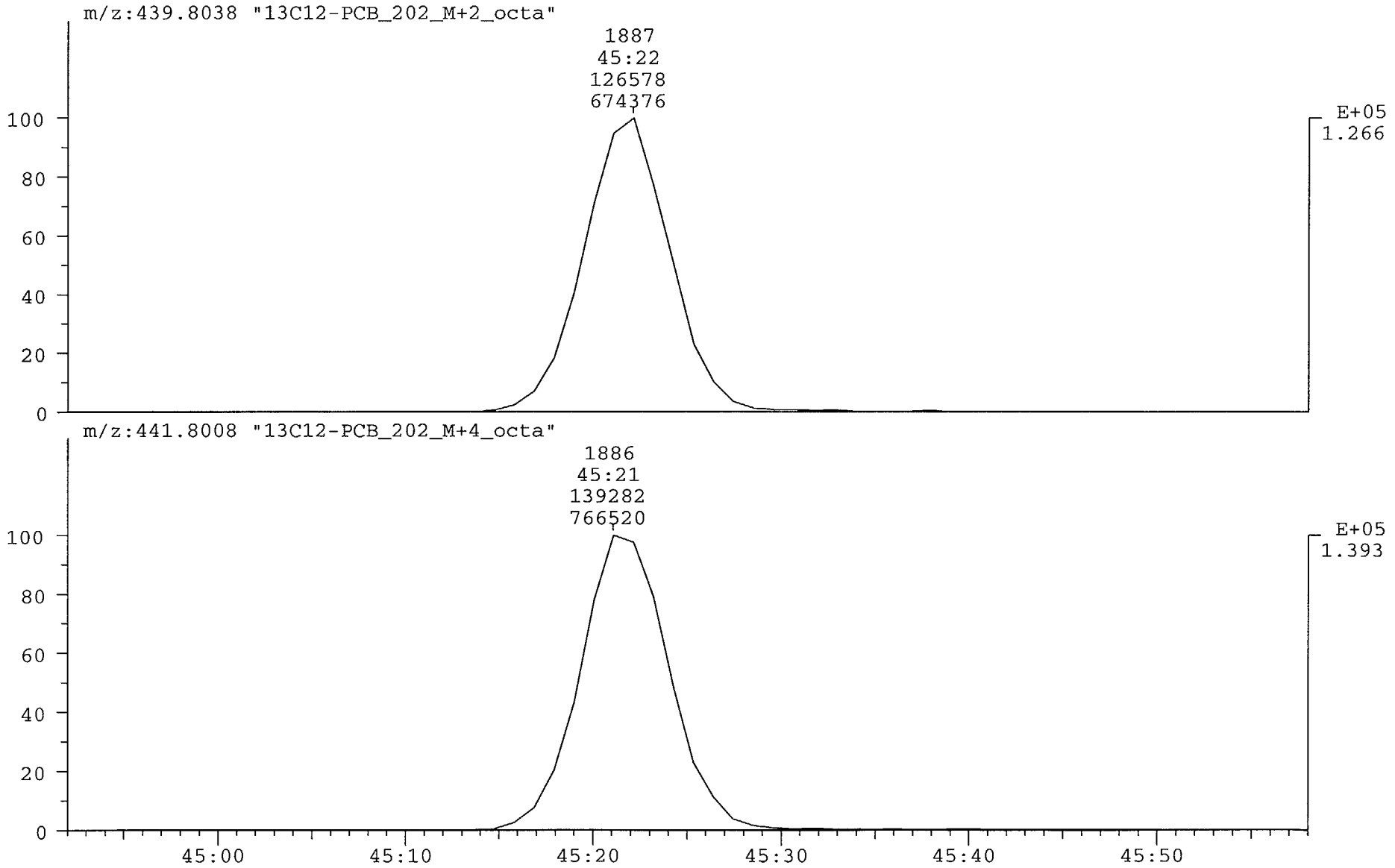
CHRO: aph2w5kc 25-Apr-06 Elapse: 52:37 2295
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2271 > 2322 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



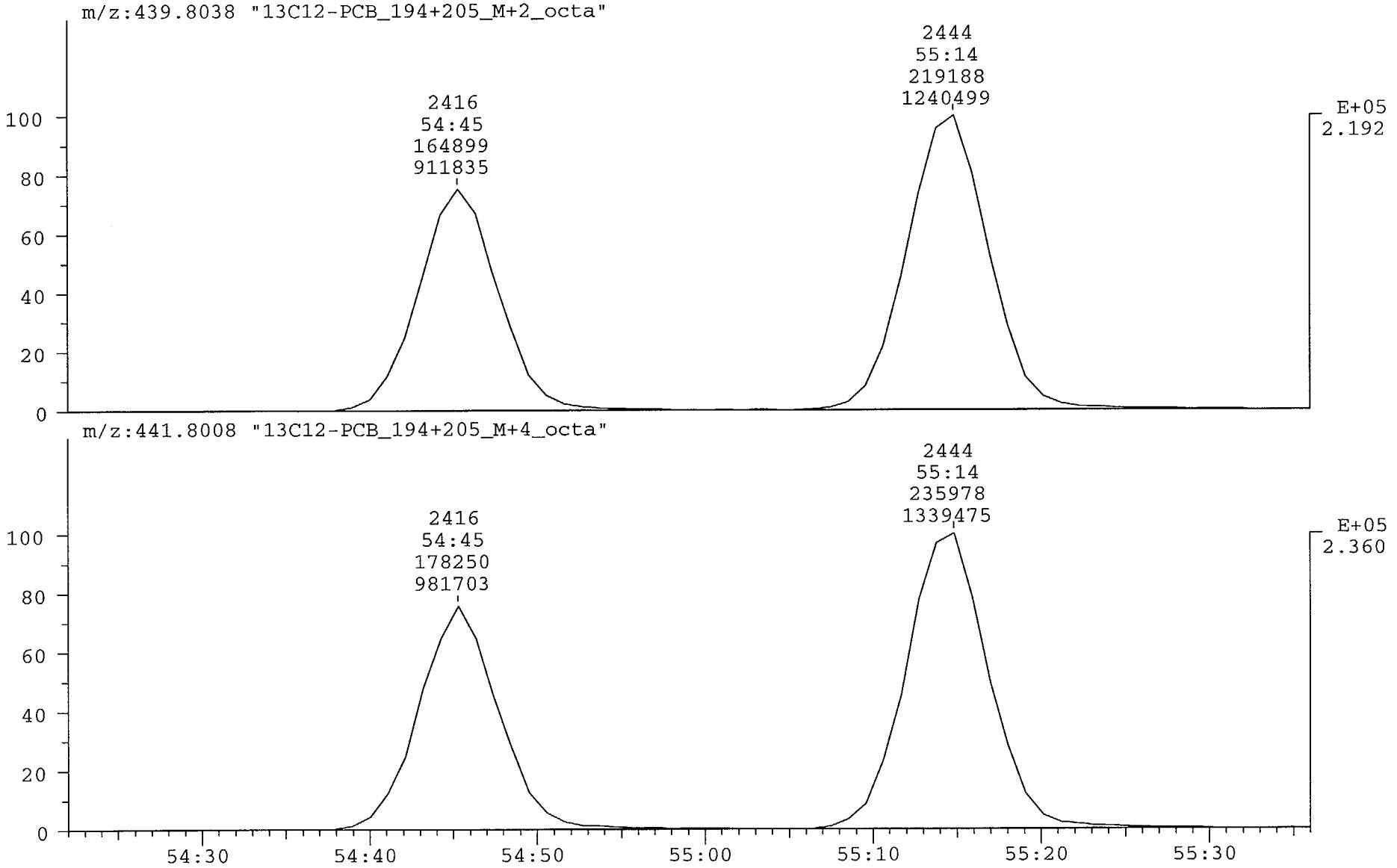
CHRO: aph2w5kc 25-Apr-06 Elapse: 50:21 2170
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1870 > 2466 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



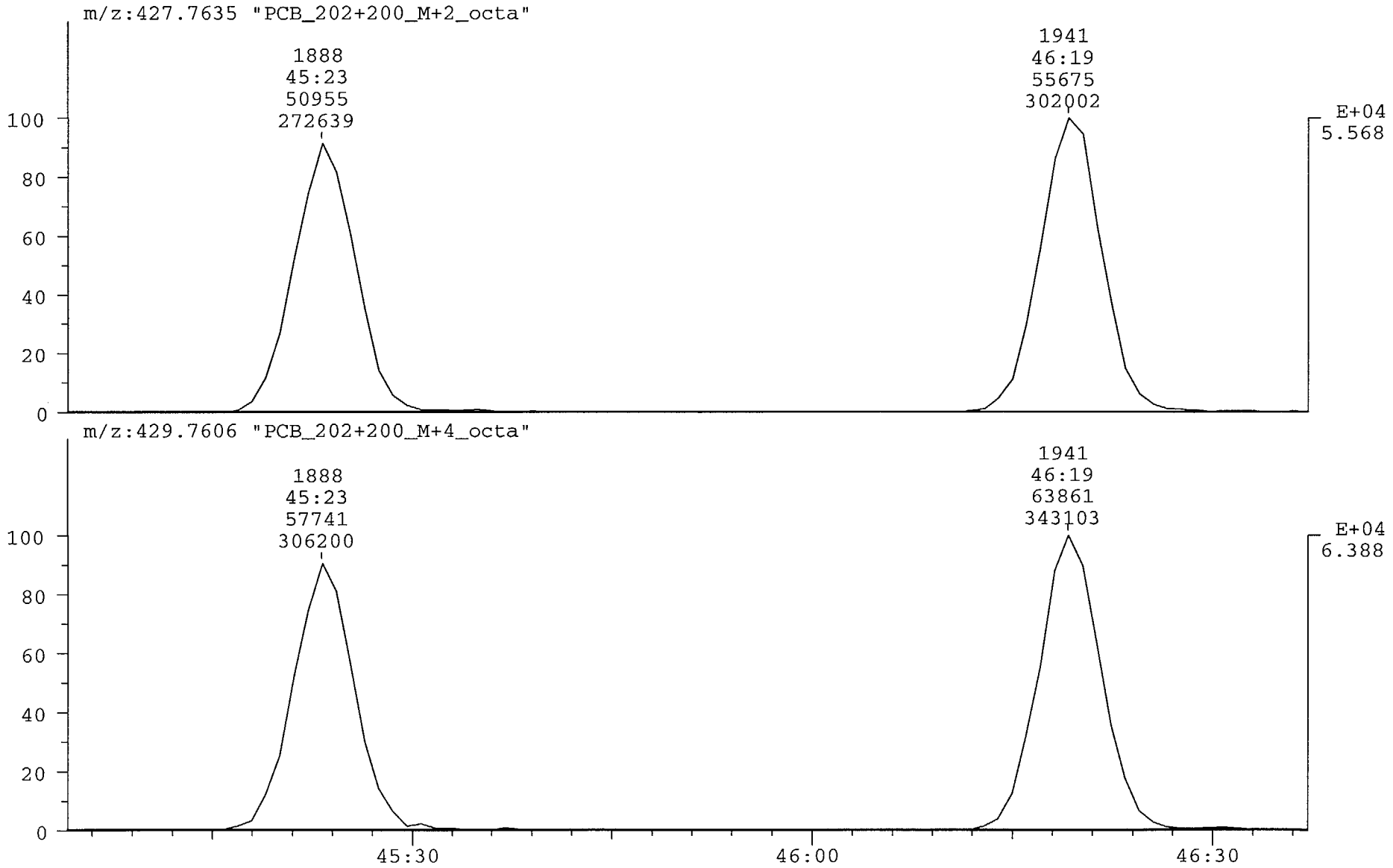
CHRO: aph2w5kc 25-Apr-06 Elapse: 45:22 1887
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1858 > 1921 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



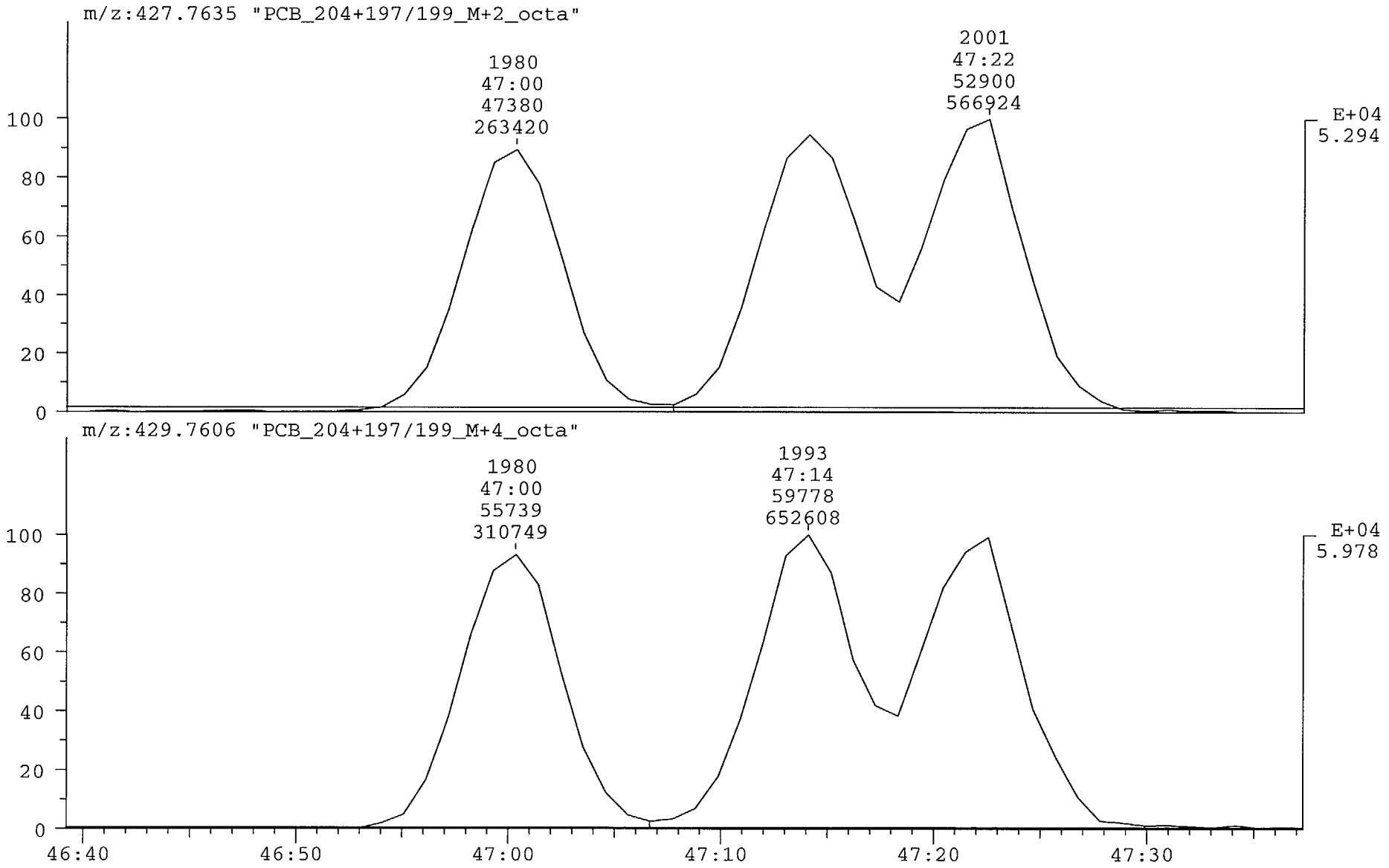
CHRO: aph2w5kc 25-Apr-06 Elapse: 54:59 2429
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2394 > 2464 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



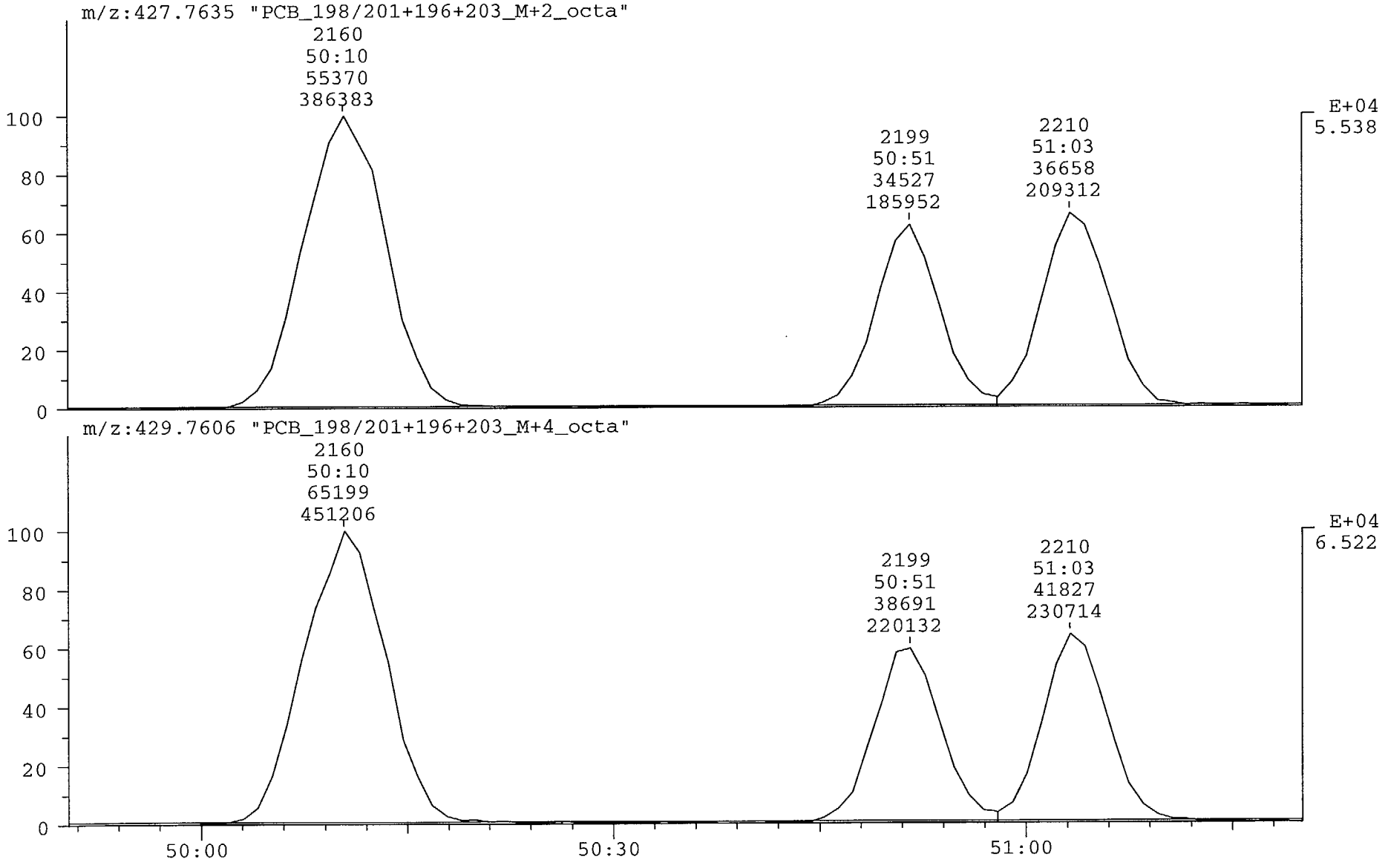
CHRO: aph2w5kc 25-Apr-06 Elapse: 45:54 1918
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1870 > 1958 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



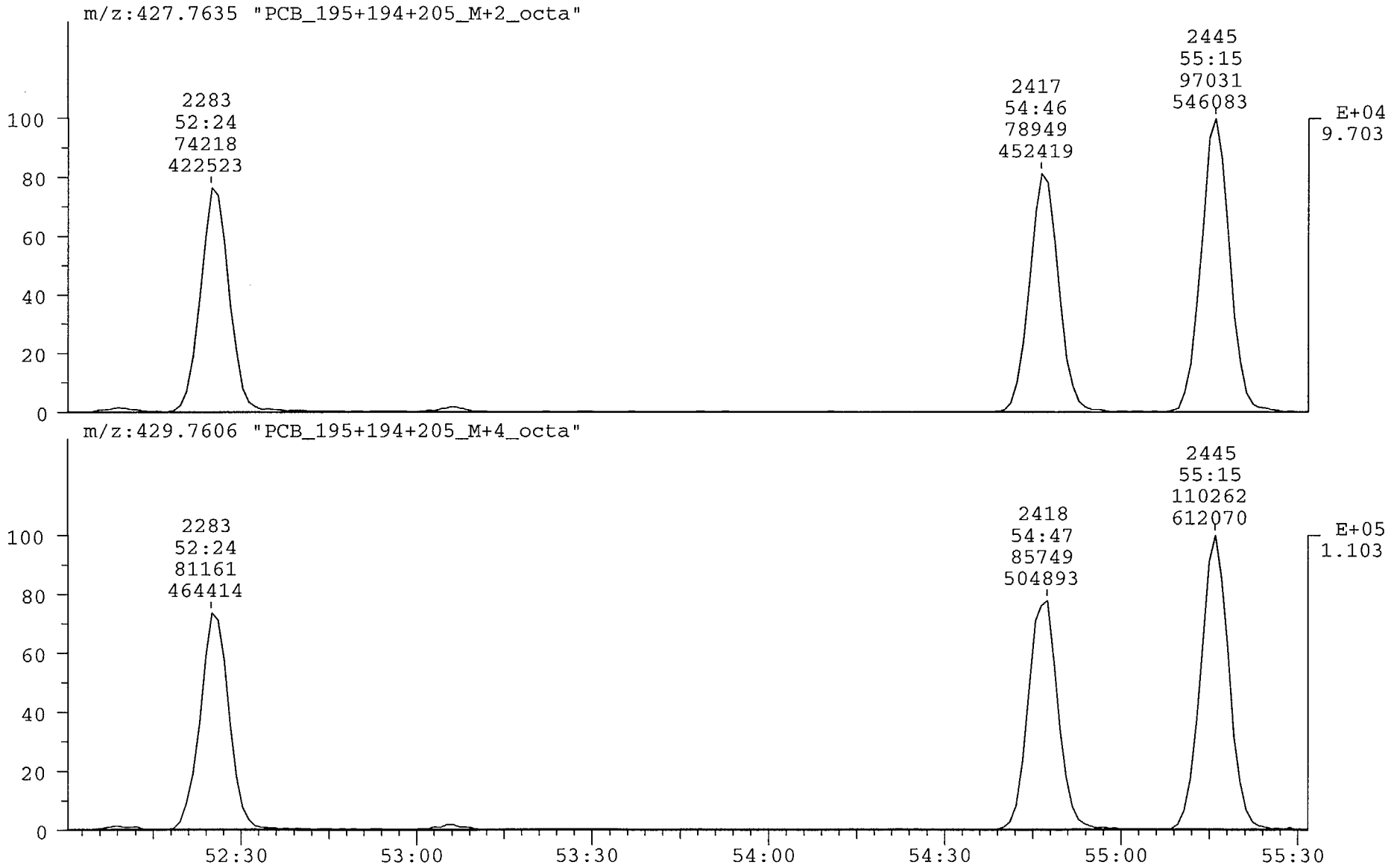
CHRO: aph2w5kc 25-Apr-06 Elapse: 47:00 1980
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1960 > 2015 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



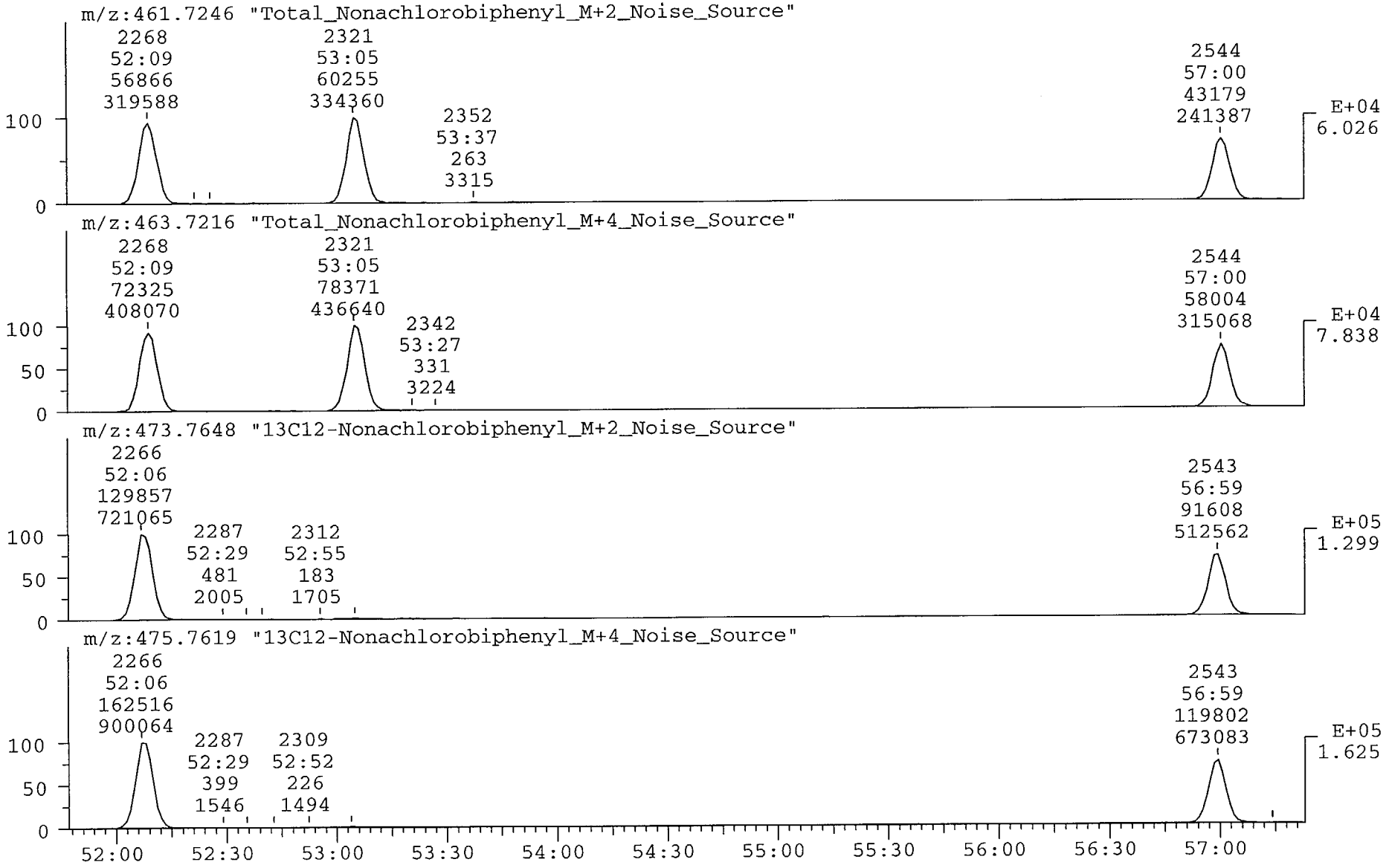
CHRO: aph2w5kc 25-Apr-06 Elapse: 50:50 2198
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2141 > 2226 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



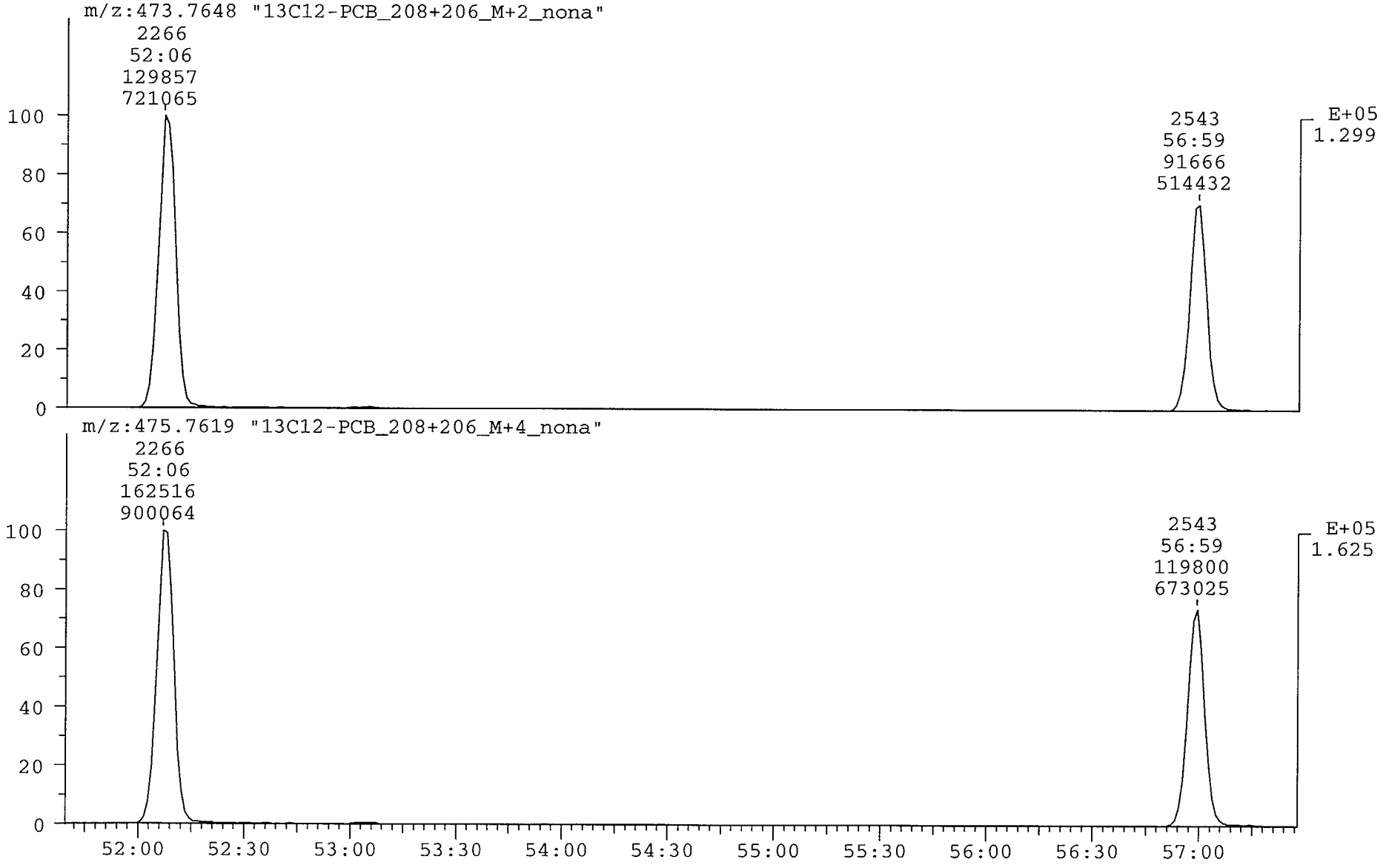
CHRO: aph2w5kc 25-Apr-06 Elapse: 54:44 2415
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2260 > 2460 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



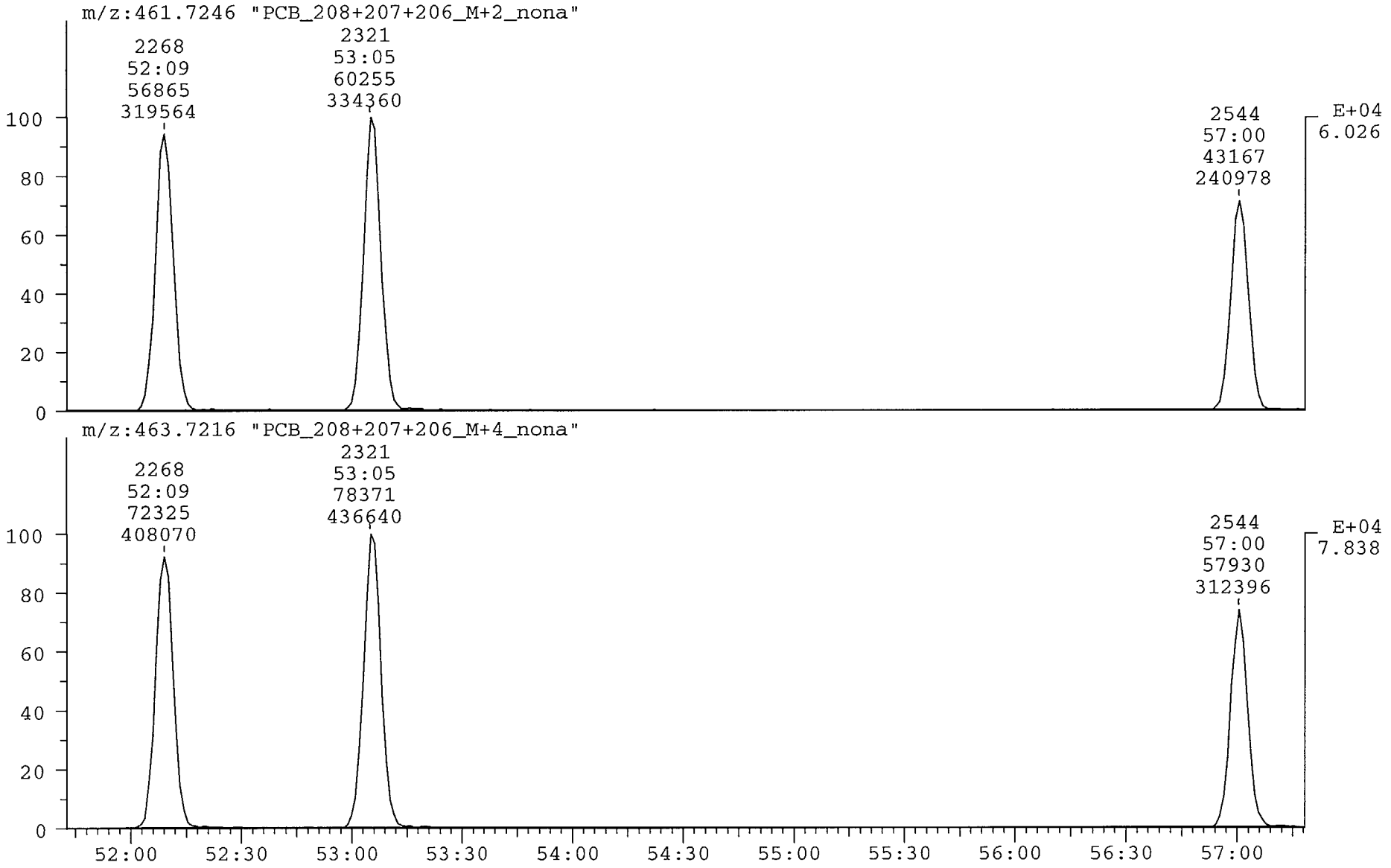
CHRO: aph2w5kc 25-Apr-06 Elapse: 54:34 2406
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2247 > 2565 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



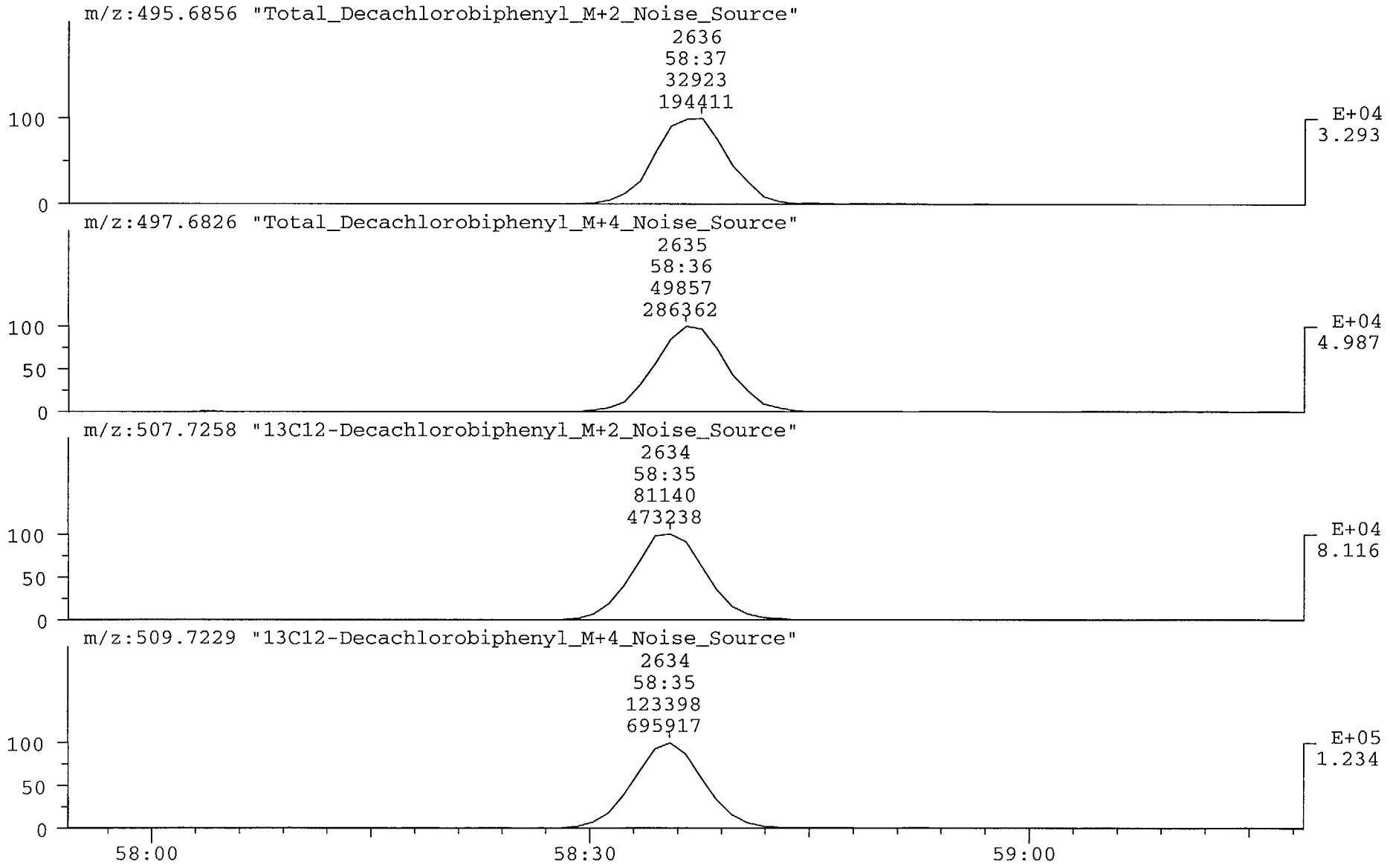
CHRO: aph2w5kc 25-Apr-06 Elapse: 54:33 2405
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2240 > 2570 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



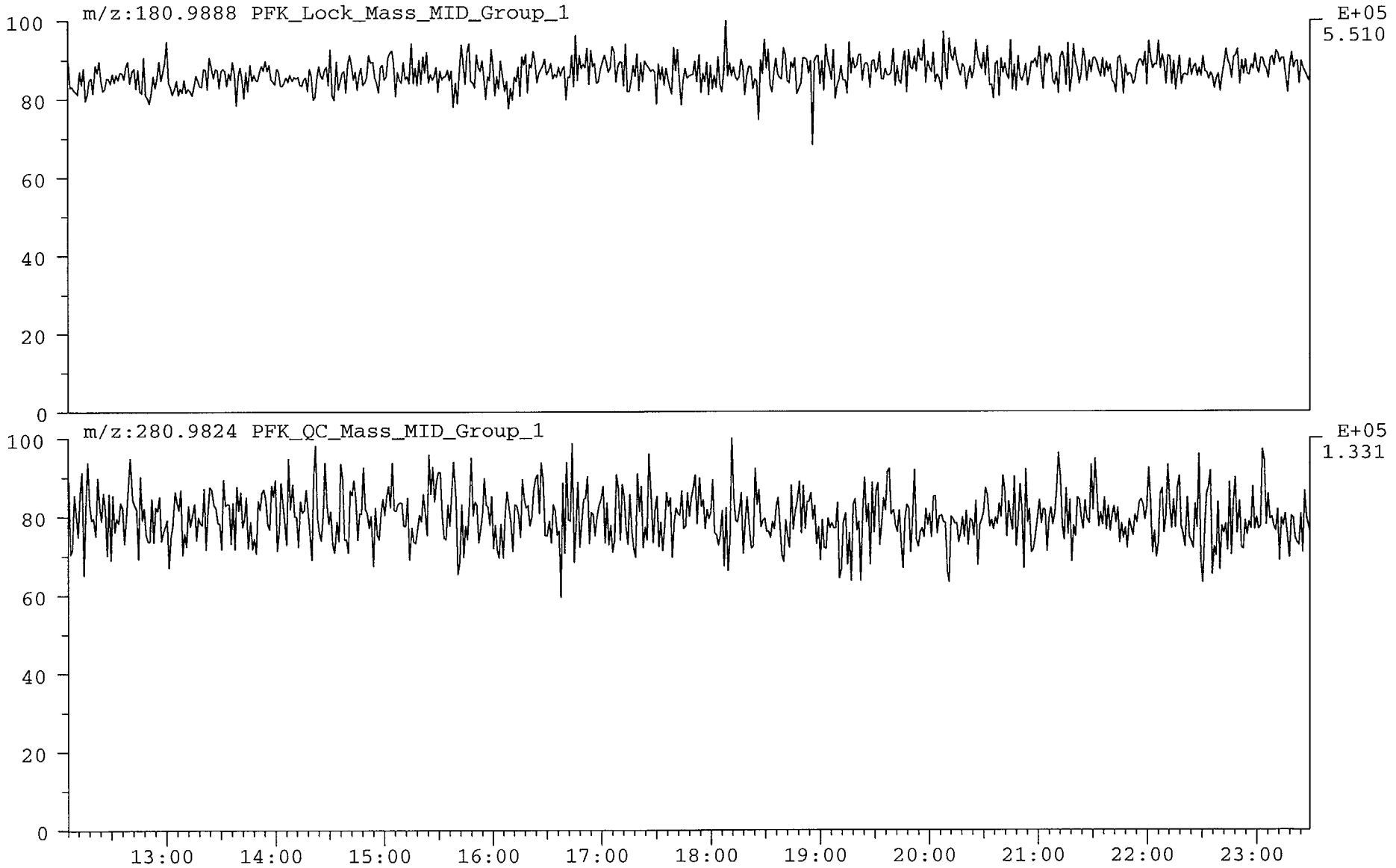
CHRO: aph2w5kc 25-Apr-06 Elapse: 54:34 2406
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2243 > 2561 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



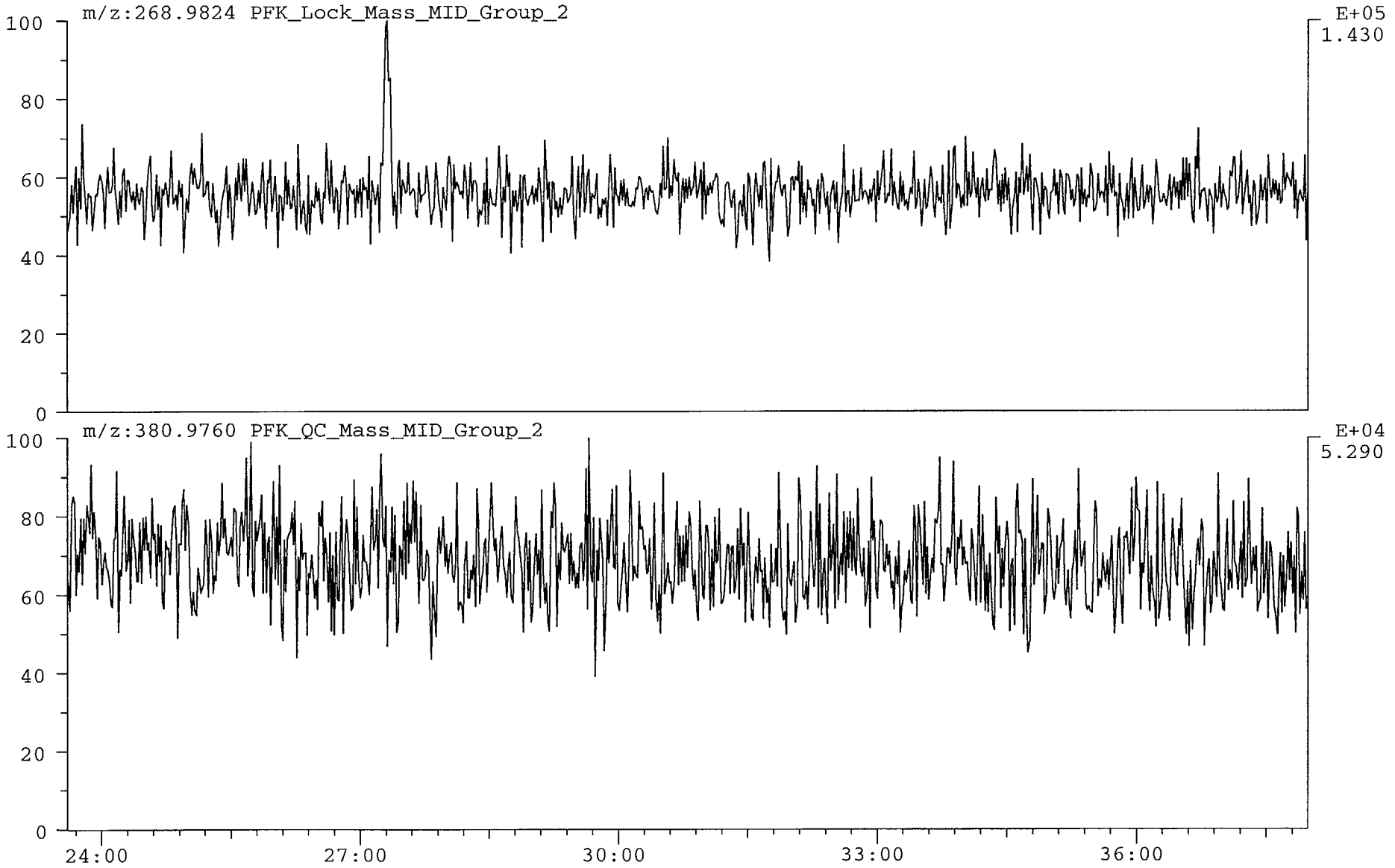
CHRO: aph2w5kc 25-Apr-06 Elapse: 58:36 2635
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2595 > 2675 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



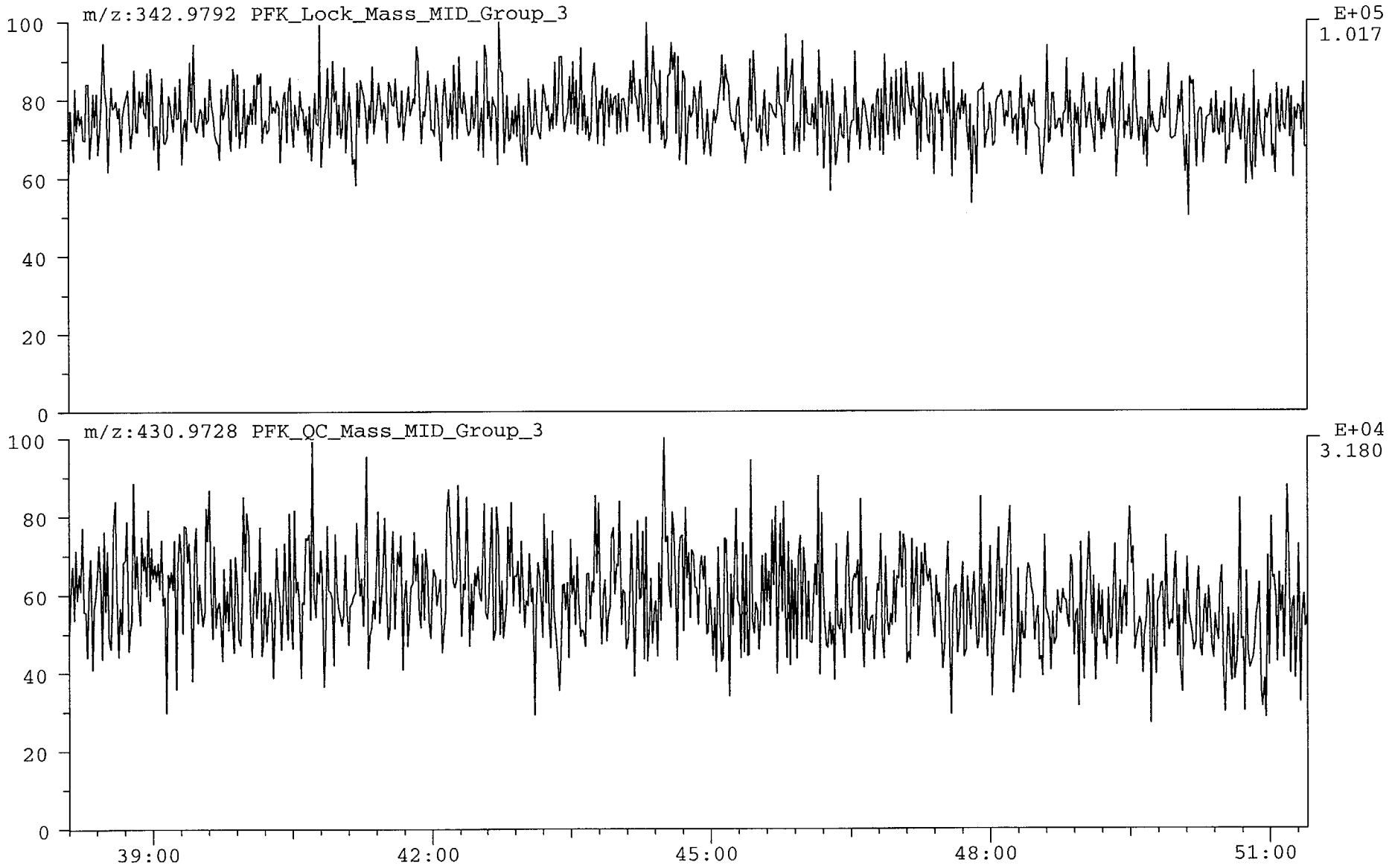
CHRO: aph2w5kc 25-Apr-06 Elapse: 58:36 2635
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 6 > 652 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



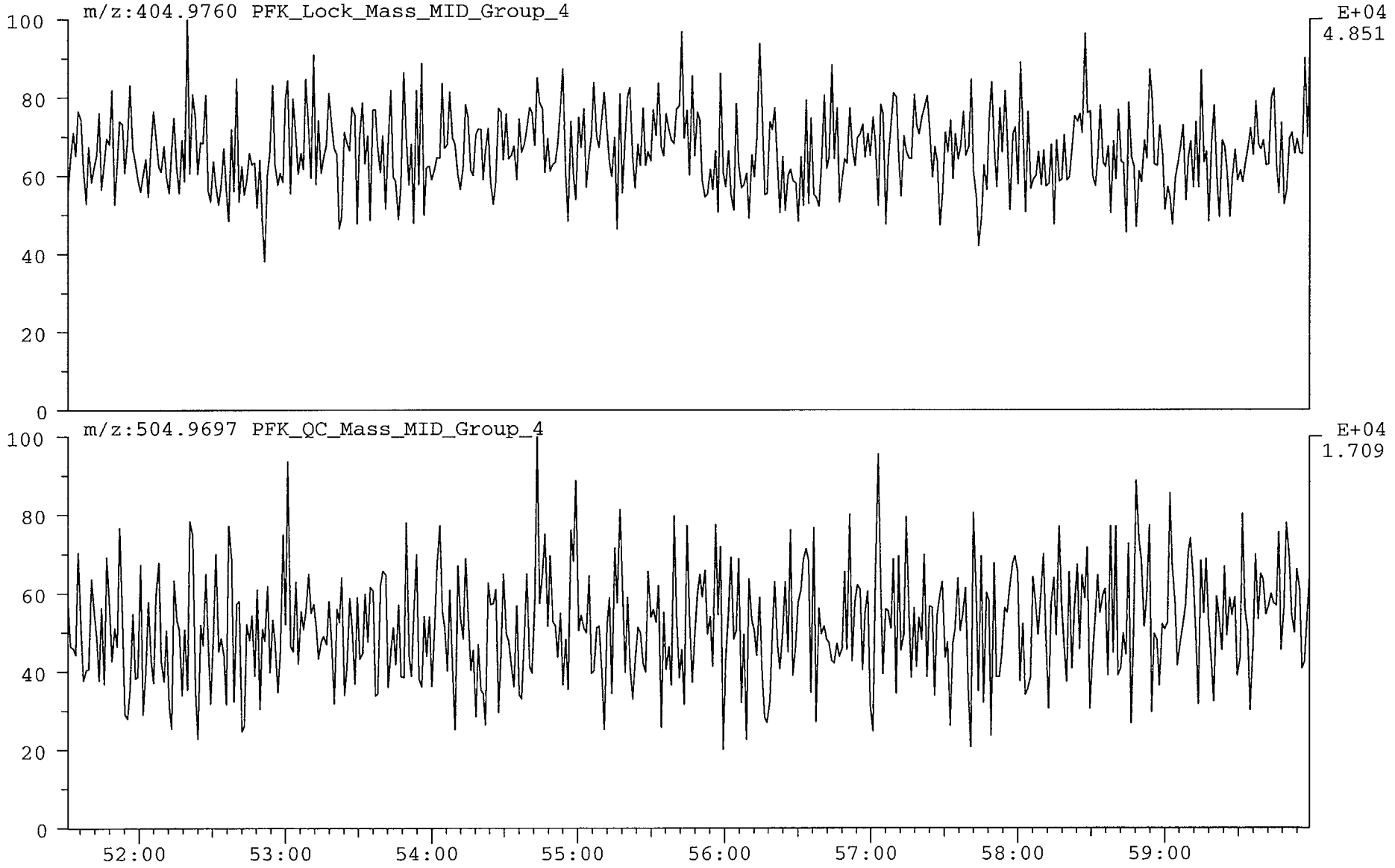
CHRO: aph2w5kc 25-Apr-06 Elapse: 58:36 2635
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 655 > 1471 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



CHRO: aph2w5kc 25-Apr-06 Elapse: 58:36 2635
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 1474 > 2230 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



CHRO: aph2w5kc 25-Apr-06 Elapse: 58:36 2635
Samp: Vial 56 WO=h2w5k1ac Meth=IE5 Dil=1 Start : 11:04:47 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050C Inlet : GC Vial 56
Peak: 100.00 ppm Label wndw: 2232 > 2713 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: aph2w5kc
Study: 6100050 (Air-2)
Sample: WO=h2w5k1ac Meth=IE5 Dil=1
Amount: 0.00
Volume: 0.00
Operator: BFW
Client: H6D100000-050C
Comments: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 56
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 1 of list 060425
ICL procedure: sleep7x
MID procedure: 1668_rev3

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	12:00 min	11:30 min	23:30 min	1.00 sec
# 2	23:30 min	14:30 min	38:00 min	1.00 sec
# 3	38:00 min	13:25 min	51:25 min	1.00 sec
# 4	51:25 min	8:35 min	60:00 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 : 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	
	280 deg at	59.0	minutes	
	280 deg at	60.0	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 1.2 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1033.9955
BMASS	292.9824	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.6941
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-27.8000
DRAWC	1.0000	DRAWS	0.0050	ECORR	1.0003
ECURR	1.0000	EDAC	7969177.0000	EDACG	1.0000
EDACR	23.0000	EDACZ	-196.0000	ELEN	62.0250
EMULT	1.4500	ENS	188.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	148.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	600.9615	FSLOPE	54000000.0000	FVANAL	281.0000
FVINLET	268.0000	FVSRC	863.0000	FWIN	0.7000
GCTC	173.0000	GCTI	270.0000	GCTL	280.0000
HACCU	156.0000	HCURR	1.3039	HVANAL	1372.0000
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	1700.0000	LENSS	26.6000
LKM	404.9760	LM	800.0000	LMASS	292.9824
LMII	500.0000	MASS	292.9824	MDAC	3490224.6892

MDACR	23.0000	MRANGE	1033.9955	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	612.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0750
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10004.8863	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2623.0000
SHIELDS	0.4000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.0100	TCURR	0.8594
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	2.2250	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	292.9824	XLENS	2601.0000
XLENSS	-7.4000	YLENS	3287.0000	YLENSS	-58.4000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 25-Apr-06 11:04:47.7

Autosampler has injected sample from vial 56
MID Time Window 1: Resolution is 8229
MID Time Window 2: Resolution is 8405
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 9641
 Analysis stopped at: 25-Apr-06 12:04:51.0   (run time 60.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	12:58	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Total Monochlorobiphenyl		7908359	2134161			35.546792		35.546792	B	0.0286
13C12-PCB 1	13:12	4018693	1206127	1.412	20.00	16.682702	83.41	16.682702		0.0204
13C12-PCB 3	15:38	4103692	983871	1.399	20.00	17.192915	85.96	17.192915		0.0206
PCB 1 (BZ)	13:13	2754842	858275	1.136	10.00	12.066415	120.66	12.066415	B	0.00828
PCB 2 (BZ)	15:26	2522711	638293	1.050	10.00	11.830791	118.31	11.830791	B	0.00987
PCB 3 (BZ)	15:38	2630806	637593	1.101	10.00	11.649587	116.50	11.649587	B	0.0105
Total Dichlorobiphenyl		22177194	4051842			132.902901		132.902901	B	0.330
13C12-PCB 4	15:53	1739877	446403	0.602	20.00	16.928473	84.64	16.928473		0.0205
13C12-PCB 9	18:02	3413025	786935	1.000	20.00	20.000000	100.00	20.000000		0.0123
13C12-PCB 8				1.309	10.00			ND		0.0144
13C12-PCB 15	22:15	2945452	584138	1.069	20.00	16.145525	80.73	16.145525		0.0115
PCB 4 (BZ)	15:54	1182428	313292	1.249	10.00	10.879896	108.80	10.879896	B	0.0391
PCB 10 (BZ)	16:05	1802415	463022	1.369	10.00	11.241360	112.41	11.241360	B	0.0309
PCB 9 (BZ)	18:03	1822889	437346	1.492	10.00	10.429314	104.29	10.429314	B	0.0284
PCB 7 (BZ)	18:14	1868805	402264	1.456	10.00	10.955335	109.55	10.955335	B	0.0291
PCB 6 (BZ)	18:29	1897300	423442	1.513	10.00	10.707196	107.07	10.707196	B	0.0280
PCB 5 (BZ)	18:49	1654528	389781	1.332	10.00	10.607060	106.07	10.607060	B	0.0318
PCB 8 (BZ)	18:58	1949381	415303	1.519	10.00	10.959445	109.59	10.959445	B	0.0279
PCB 14 (BZ)	20:42	2217174	448935	1.694	10.00	11.173199	111.73	11.173199	B	0.0250
PCB 11 (BZ)	21:36	1959547	391596	1.390	10.00	12.036977	120.37	12.036977	B	0.0304
PCB 13 (BZ)	21:56	3762821	551265	1.422	20.00	22.587117	112.94	22.587117	BC12	0.0297
PCB 12 (BZ)		3762821		1.422	20.00	22.587117	112.94	22.587117	BC	0.0297
PCB 15 (BZ)	22:16	2059906	366861	1.235	10.00	11.326003	113.26	11.326003	B	0.0302
Total Trichlorobiphenyl		48971256	8407477			255.471289		255.471289	B	0.625
13C12-PCB 19	19:15	1356259	304548	0.546	20.00	17.455623	87.28	17.455623		0.0576
13C12-PCB 32	22:43	2845952	586410	1.000	20.00	20.000000	100.00	20.000000		0.0315
13C12-PCB 31	25:06	5013013	970362	1.000	20.00	20.000000	100.00	20.000000		0.0190
13C12-PCB 28	25:25	4701504	908136	0.935	20.00	20.052072	100.26	20.052072		0.0203
13C12-PCB 37	29:37	3838748	661236	0.867	20.00	17.667122	88.34	17.667122		0.0219
PCB 19 (BZ)	19:17	805452	192724	1.265	10.00	9.391914	93.92	9.391914	B	0.0517
PCB 30 (BZ)	21:14	2093174	354257	1.669	20.00	18.490888	92.45	18.490888	BC18	0.0391
PCB 18 (BZ)		2093174		1.669	20.00	18.490888	92.45	18.490888	BC	0.0391
PCB 17 (BZ)	21:42	909496	195634	1.407	10.00	9.534586	95.35	9.534586		0.0465
PCB 27 (BZ)	21:56	1264883	269647	2.031	10.00	9.184124	91.84	9.184124	B	0.0322
PCB 24 (BZ)	22:04	1198808	253642	1.904	10.00	9.282718	92.83	9.282718	B	0.0343
PCB 16 (BZ)	22:12	766781	166747	1.213	10.00	9.319332	93.19	9.319332		0.0539
PCB 32 (BZ)	22:45	1344902	274084	2.154	10.00	9.208444	92.08	9.208444	B	0.0303
PCB 34 (BZ)	24:04	2414094	502269	1.134	10.00	11.094027	110.94	11.094027	B	0.0265
PCB 23 (BZ)	24:13	2437534	493849	1.119	10.00	11.350351	113.50	11.350351	B	0.0269
PCB 29 (BZ)		4951199		1.180	20.00	21.861432	109.31	21.861432	BC26	0.0255
PCB 26 (BZ)	24:33	4951199	851152	1.180	20.00	21.861432	109.31	21.861432	BC	0.0255
PCB 25 (BZ)	24:48	2812291	509722	1.321	10.00	11.089372	110.89	11.089372	B	0.0228
PCB 31 (BZ)	25:07	2557650	500479	1.197	10.00	11.136685	111.37	11.136685	B	0.0252
PCB 28 (BZ)	25:27	5123931	879194	1.197	20.00	22.299441	111.50	22.299441	BC20	0.0251
PCB 20 (BZ)		5123931		1.197	20.00	22.299441	111.50	22.299441	BC	0.0251
PCB 21 (BZ)		5270890		1.202	20.00	22.840076	114.20	22.840076	BC	0.0250
PCB 33 (BZ)	25:41	5270890	640903	1.202	20.00	22.840076	114.20	22.840076	BC21	0.0250
PCB 22 (BZ)	26:06	2439053	466169	1.124	10.00	11.306573	113.07	11.306573	B	0.0268
PCB 36 (BZ)	27:44	2646252	480942	1.107	10.00	12.458574	124.59	12.458574	B	0.0272

BFW 4/26/06 QC J 4/26/06

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5k1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	12:58	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 39 (BZ)	28:07	2698189	477384	1.214	10.00	11.575113	115.75	11.575113	B	0.0248
PCB 38 (BZ)	28:43	2439512	444974	1.149	10.00	11.058006	110.58	11.058006	B	0.0262
PCB 35 (BZ)	29:12	2430101	412655	1.084	10.00	11.681398	116.81	11.681398		0.0278
PCB 37 (BZ)	29:39	2367064	395307	1.091	10.00	11.308235	113.08	11.308235	B	0.0276
Total Tetrachlorobiphenyl		66953337	8392759			487.092886		487.092886	B	1.20
13C12-PCB 54	22:32	1731304	368412	0.511	20.00	23.807399	119.04	23.807399		0.0240
13C12-PCB 52	27:18	2271944	446188	1.000	20.00	20.000000	100.00	20.000000		0.0161
13C12-PCB 79				1.099	10.00			ND		0.0156
13C12-PCB 81	36:32	2542809	433258	1.295	20.00	17.282752	86.41	17.282752		0.0125
13C12-PCB 77	37:07	2453865	407748	1.318	20.00	16.388140	81.94	16.388140		0.0122
PCB 54 (BZ)	22:34	1060814	226501	1.208	10.00	10.142991	101.43	10.142991		0.0425
PCB 50 (BZ)		2593571		0.920	20.00	22.572765	112.86	22.572765	BC	0.0489
PCB 53 (BZ)	24:50	2593571	474510	0.920	20.00	22.572765	112.86	22.572765	BC50	0.0489
PCB 45 (BZ)	25:36	2443731	294943	0.851	20.00	22.991532	114.96	22.991532	BC	0.0528
PCB 51 (BZ)		2443731		0.851	20.00	22.991532	114.96	22.991532	BC45	0.0528
PCB 46 (BZ)	25:52	1090536	209146	0.689	10.00	12.672757	126.73	12.672757		0.0652
PCB 52 (BZ)	27:19	1286322	262086	0.909	10.00	11.323146	113.23	11.323146	B	0.0494
PCB 73 (BZ)	27:28	2802862	337334	0.936	20.00	23.964068	119.82	23.964068	BC43	0.0480
PCB 43 (BZ)		2802862		0.936	20.00	23.964068	119.82	23.964068	BC	0.0480
PCB 69 (BZ)	27:48	3023783	408359	1.079	20.00	22.443522	112.22	22.443522	BC49	0.0417
PCB 49 (BZ)		3023783		1.079	20.00	22.443522	112.22	22.443522	BC	0.0417
PCB 48 (BZ)	28:08	1233419	244742	0.846	10.00	11.673290	116.73	11.673290		0.0531
PCB 65 (BZ)		4259361		1.004	30.00	33.961700	113.21	33.961700	BC44	0.0448
PCB 47 (BZ)		4259361		1.004	30.00	33.961700	113.21	33.961700	BC44	0.0448
PCB 44 (BZ)	28:23	4259361	701950	1.004	30.00	33.961700	113.21	33.961700	BC	0.0448
PCB 62 (BZ)		5376240		1.279	30.00	33.639608	112.13	33.639608	BC59	0.0351
PCB 75 (BZ)		5376240		1.279	30.00	33.639608	112.13	33.639608	BC59	0.0351
PCB 59 (BZ)	28:42	5376240	809972	1.279	30.00	33.639608	112.13	33.639608	BC	0.0351
PCB 42 (BZ)	28:54	1315176	243697	0.838	10.00	12.565253	125.65	12.565253		0.0536
PCB 41 (BZ)		3897396		0.872	30.00	35.791633	119.31	35.791633	BC40	0.0516
PCB 71 (BZ)		3897396		0.872	30.00	35.791633	119.31	35.791633	BC40	0.0516
PCB 40 (BZ)	29:25	3897396	536486	0.872	30.00	35.791633	119.31	35.791633	BC	0.0516
PCB 64 (BZ)	29:40	1972244	349251	1.341	10.00	11.776746	117.77	11.776746	B	0.0335
PCB 72 (BZ)	30:29	1791355	354771	1.203	10.00	11.916005	119.16	11.916005		0.0373
PCB 68 (BZ)	30:47	1968356	337728	1.294	10.00	12.174546	121.75	12.174546	B	0.0347
PCB 57 (BZ)	31:14	1766200	331472	1.203	10.00	11.753457	117.53	11.753457		0.0374
PCB 58 (BZ)	31:29	1757531	325129	1.235	10.00	11.392937	113.93	11.392937		0.0364
PCB 67 (BZ)	31:39	1998727	341767	1.394	10.00	11.474073	114.74	11.474073		0.0322
PCB 63 (BZ)	31:56	1844510	337916	1.331	10.00	11.090299	110.90	11.090299		0.0338
PCB 61 (BZ)		7435316		1.280	40.00	46.492849	116.23	46.492849	BC	0.0351
PCB 70 (BZ)		7435316		1.280	40.00	46.492849	116.23	46.492849	BC61	0.0351
PCB 76 (BZ)	32:16	7435316	723194	1.280	40.00	46.492849	116.23	46.492849	BC61	0.0351
PCB 74 (BZ)		7435316		1.280	40.00	46.492849	116.23	46.492849	BC61	0.0351
PCB 66 (BZ)	32:37	1809389	334208	1.254	10.00	11.555144	115.55	11.555144	B	0.0359
PCB 55 (BZ)	32:47	1808557	327596	1.137	10.00	12.734444	127.34	12.734444		0.0395
PCB 56 (BZ)	33:19	1773933	320356	1.202	10.00	11.812033	118.12	11.812033		0.0374
PCB 60 (BZ)	33:32	1751822	312873	1.128	10.00	12.433627	124.34	12.433627		0.0398
PCB 80 (BZ)	33:55	1923789	348871	1.301	10.00	11.833071	118.33	11.833071		0.0345
PCB 79 (BZ)	35:31	1943507	314983	1.449	10.00	10.740458	107.40	10.740458		0.0310

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	12:58	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 78 (BZ)	36:06	1692706	280086	1.109	10.00	12.221142	122.21	12.221142		0.0405
PCB 81 (BZ)	36:33	1724097	299603	1.251	10.00	10.835771	108.36	10.835771		0.0349
PCB 77 (BZ)	37:08	1608087	282088	1.179	10.00	11.114020	111.14	11.114020		0.0393
Total Pentachlorobiphenyl		50220133	6635483			507.617347		507.617347	B	1.92
13C12-PCB 104	28:16	1562848	310809	1.259	20.00	17.186664	85.93	17.186664		0.0315
13C12-PCB 95				0.738	10.00			ND		0.0449
13C12-PCB 101	34:20	1444014	259252	1.000	20.00	20.000000	100.00	20.000000		0.0397
13C12-PCB 111	37:05	1813412	342258	1.262	20.00	19.900313	99.50	19.900313		0.0315
13C12-PCB 123	39:05	3482683	625200	0.978	20.00	18.110754	90.55	18.110754		0.0155
13C12-PCB 118	39:25	3827328	669548	1.014	20.00	19.194946	95.97	19.194946		0.0149
13C12-PCB 114	39:59	3590546	618690	0.981	20.00	18.615976	93.08	18.615976		0.0154
13C12-PCB 105	40:40	3555319	608616	0.939	20.00	19.254792	96.27	19.254792		0.0161
13C12-PCB 127	42:09	3932797	681022	1.000	20.00	20.000000	100.00	20.000000		0.0151
13C12-PCB 126	43:48	3145971	535462	0.971	20.00	16.480782	82.40	16.480782		0.0156
PCB 104 (BZ)	28:17	979228	192011	1.157	10.00	10.832468	108.32	10.832468		0.0585
PCB 96 (BZ)	28:42	898411	175856	1.047	10.00	10.980173	109.80	10.980173		0.0647
PCB 103 (BZ)	30:40	745751	143657	0.859	10.00	11.105794	111.06	11.105794		0.0788
PCB 94 (BZ)	30:54	668482	128242	0.724	10.00	11.821059	118.21	11.821059		0.0936
PCB 95 (BZ)	31:22	689833	130724	0.817	10.00	10.811571	108.12	10.811571		0.0829
PCB 100 (BZ)	31:35	1478203	243906	0.836	20.00	22.628331	113.14	22.628331	C93	0.0810
PCB 93 (BZ)		1478203		0.836	20.00	22.628331	113.14	22.628331	C	0.0810
PCB 102 (BZ)	31:43	1463384	162386	0.848	20.00	22.074340	110.37	22.074340	C98	0.0798
PCB 98 (BZ)		1463384		0.848	20.00	22.074340	110.37	22.074340	C	0.0798
PCB 88 (BZ)	32:15	1398562	147648	0.791	20.00	22.621779	113.11	22.621779	C	0.0856
PCB 91 (BZ)		1398562		0.791	20.00	22.621779	113.11	22.621779	C88	0.0856
PCB 84 (BZ)	32:30	625328	115814	0.681	10.00	11.743031	117.43	11.743031		0.0994
PCB 89 (BZ)	32:58	682571	127410	0.718	10.00	12.160801	121.61	12.160801		0.0943
PCB 121 (BZ)	33:22	981754	181198	1.140	10.00	11.022966	110.23	11.022966		0.0594
PCB 92 (BZ)	33:46	702708	127280	0.819	10.00	10.974155	109.74	10.974155		0.0826
PCB 113 (BZ)	34:21	2514791	354615	0.979	30.00	32.887249	109.62	32.887249	C90	0.0692
PCB 90 (BZ)		2514791		0.979	30.00	32.887249	109.62	32.887249	C	0.0692
PCB 101 (BZ)		2514791		0.979	30.00	32.887249	109.62	32.887249	C90	0.0692
PCB 83 (BZ)		1346018		0.797	20.00	21.610763	108.05	21.610763	C	0.0850
PCB 99 (BZ)	34:58	1346018	156406	0.797	20.00	21.610763	108.05	21.610763	C83	0.0850
PCB 112 (BZ)	35:05	999683	176565	1.110	10.00	11.525373	115.25	11.525373		0.0610
PCB 109 (BZ)/108 (IUPAC)	35:27	5036797	541765	0.991	60.00	65.013699	108.36	65.013699	C86	0.0683
PCB 86 (BZ)		5036797		0.991	60.00	65.013699	108.36	65.013699	C	0.0683
PCB 119 (BZ)		5036797		0.991	60.00	65.013699	108.36	65.013699	C86	0.0683
PCB 97 (BZ)		5036797		0.991	60.00	65.013699	108.36	65.013699	C86	0.0683
PCB 125 (BZ)		5036797		0.991	60.00	65.013699	108.36	65.013699	C86	0.0683
PCB 87 (BZ)		5036797		0.991	60.00	65.013699	108.36	65.013699	C86	0.0683
PCB 117 (BZ)		2554444		0.989	30.00	33.044418	110.15	33.044418	BC85	0.0685
PCB 116 (BZ)		2554444		0.989	30.00	33.044418	110.15	33.044418	BC85	0.0685
PCB 85 (BZ)	36:14	2554444	301602	0.989	30.00	33.044418	110.15	33.044418	BC	0.0685
PCB 110 (BZ)		1993771		1.142	20.00	22.341473	111.71	22.341473	C	0.0593
PCB 115 (BZ)	36:28	1993771	199774	1.142	20.00	22.341473	111.71	22.341473	C110	0.0593
PCB 82 (BZ)	36:44	636487	110087	0.679	10.00	11.995604	119.96	11.995604		0.0997
PCB 111 (BZ)	37:07	1001810	183124	1.195	10.00	10.727885	107.28	10.727885		0.0567
PCB 120 (BZ)	37:34	989224	183471	1.179	10.00	10.738872	107.39	10.738872		0.0575

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	12:58	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 124 (BZ)	38:45	3947694	697553	0.995	20.00	22.536885	112.68	22.536885	C108	0.0346
PCB 108 (BZ)/107 (IUPAC)		3947694		0.995	20.00	22.536885	112.68	22.536885	C	0.0346
PCB 107 (BZ)/109 (IUPAC)	39:00	1905960	353089	1.015	10.00	10.669910	106.70	10.669910		0.0339
PCB 123 (BZ)	39:08	2047636	377063	1.110	10.00	10.597929	105.98	10.597929	B	0.0303
PCB 106 (BZ)	39:15	2057509	361883	0.963	10.00	12.138214	121.38	12.138214		0.0357
PCB 118 (BZ)	39:28	2155087	362989	1.021	10.00	11.026384	110.26	11.026384	B	0.0308
PCB 122 (BZ)	39:49	1830480	342867	0.957	10.00	10.867640	108.68	10.867640		0.0360
PCB 114 (BZ)	40:00	2207850	371572	1.173	10.00	10.488769	104.89	10.488769		0.0290
PCB 105 (BZ)	40:41	2034223	349614	1.130	10.00	10.128098	101.28	10.128098	B	0.0306
PCB 127 (BZ)	42:10	1830989	317210	1.066	10.00	9.759143	97.59	9.759143		0.0323
PCB 126 (BZ)	43:49	1815465	276642	1.074	10.00	10.742569	107.43	10.742569		0.0366
Total Hexachlorobiphenyl		48028471	6039077			484.296684		484.296684	B	2.05
13C12-PCB 155	34:05	1559317	299941	1.013	20.00	21.320596	106.60	21.320596		0.0356
13C12-PCB 153				0.845	10.00			ND		0.0317
13C12-PCB 138	42:35	2221326	398976	1.000	20.00	20.000000	100.00	20.000000		0.0234
13C12-PCB 167	45:38	2519735	456143	1.250	20.00	18.148374	90.74	18.148374		0.0187
13C12-PCB 156	46:50	5195453	669608	1.237	40.00	37.818195	94.55	37.818195		0.0189
13C12-PCB 157								ND		0.000000
13C12-PCB 169	50:08	1569665	269702	1.164	20.00	12.141924	60.71	12.141924		0.0201
PCB 155 (BZ)	34:06	856930	165791	1.131	10.00	9.722111	97.22	9.722111		0.0582
PCB 152 (BZ)	34:20	830905	156840	1.067	10.00	9.991376	99.91	9.991376		0.0617
PCB 150 (BZ)	34:30	836138	156429	1.059	10.00	10.126676	101.27	10.126676		0.0622
PCB 136 (BZ)	34:53	800997	146496	1.009	10.00	10.182639	101.83	10.182639		0.0653
PCB 145 (BZ)	35:11	832730	160448	1.021	10.00	10.461923	104.62	10.461923		0.0645
PCB 148 (BZ)	36:42	605854	110336	0.738	10.00	10.526733	105.27	10.526733		0.0892
PCB 151 (BZ)	37:22	1181187	137227	0.732	20.00	20.695019	103.48	20.695019	C135	0.0899
PCB 135 (BZ)		1181187		0.732	20.00	20.695019	103.48	20.695019	C	0.0899
PCB 154 (BZ)	37:33	707174	133950	0.899	10.00	10.087185	100.87	10.087185		0.0732
PCB 144 (BZ)	37:53	604644	112156	0.757	10.00	10.241500	102.42	10.241500		0.0870
PCB 147 (BZ)	38:16	2315985	435387	0.825	20.00	24.179057	120.90	24.179057	BC	0.0686
PCB 149 (BZ)		2315985		0.825	20.00	24.179057	120.90	24.179057	BC147	0.0686
PCB 134 (BZ)		2037991		0.694	20.00	25.289212	126.45	25.289212	C	0.0815
PCB 143 (BZ)	38:34	2037991	208847	0.694	20.00	25.289212	126.45	25.289212	C134	0.0815
PCB 139 (BZ)	38:53	2323934	404568	0.828	20.00	24.181152	120.91	24.181152	C	0.0684
PCB 140 (BZ)		2323934		0.828	20.00	24.181152	120.91	24.181152	C139	0.0684
PCB 131 (BZ)	39:05	1019225	182752	0.687	10.00	12.791568	127.92	12.791568		0.0825
PCB 142 (BZ)	39:15	995941	189885	0.705	10.00	12.174183	121.74	12.174183		0.0803
PCB 132 (BZ)	39:34	1003375	180931	0.708	10.00	12.205279	122.05	12.205279		0.0799
PCB 133 (BZ)	40:03	1089050	196958	0.777	10.00	12.069961	120.70	12.069961		0.0728
PCB 165 (BZ)	40:27	1412773	258209	0.989	10.00	12.302011	123.02	12.302011		0.0572
PCB 146 (BZ)	40:42	1177190	223467	0.862	10.00	11.763910	117.64	11.763910		0.0657
PCB 161 (BZ)	40:51	1554775	272618	1.128	10.00	11.877949	118.78	11.877949		0.0502
PCB 153 (BZ)	41:22	2867311	416420	1.070	20.00	23.095441	115.48	23.095441	C	0.0529
PCB 168 (BZ)		2867311		1.070	20.00	23.095441	115.48	23.095441	C153	0.0529
PCB 141 (BZ)	41:32	1144203	196724	0.738	10.00	13.353158	133.53	13.353158		0.0767
PCB 130 (BZ)	41:58	996879	181773	0.694	10.00	12.369834	123.70	12.369834		0.0815
PCB 137 (BZ)		2652054		0.944	20.00	24.197473	120.99	24.197473	C	0.0599
PCB 164 (BZ)	42:18	2652054	269669	0.944	20.00	24.197473	120.99	24.197473	C137	0.0599
PCB 138 (BZ)	42:37	5105095	518542	0.922	40.00	47.718115	119.30	47.718115	BC129	0.0614

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5k1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	12:58	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 163 (BZ)		5105095		0.922	40.00	47.718115	119.30	47.718115	BC129	0.0614
PCB 129 (BZ)		5105095		0.922	40.00	47.718115	119.30	47.718115	BC	0.0614
PCB 160 (BZ)		5105095		0.922	40.00	47.718115	119.30	47.718115	BC129	0.0614
PCB 158 (BZ)	43:00	1659761	297075	1.197	10.00	11.950615	119.51	11.950615		0.0473
PCB 166 (BZ)	43:53	2600747	400472	0.941	20.00	23.819048	119.10	23.819048	C128	0.0602
PCB 128 (BZ)		2600747		0.941	20.00	23.819048	119.10	23.819048	C	0.0602
PCB 159 (BZ)	44:54	1473296	261275	1.100	10.00	11.539598	115.40	11.539598		0.0515
PCB 162 (BZ)	45:11	1558005	270418	1.110	10.00	12.090419	120.90	12.090419		0.0510
PCB 167 (BZ)	45:40	1498409	264052	1.150	10.00	10.346326	103.46	10.346326		0.0377
PCB 156 (BZ)	46:51	3157458	396991	1.113	20.00	21.832593	109.16	21.832593	C	0.0530
PCB 157 (BZ)		3157458		1.113	20.00	21.832593	109.16	21.832593	C156	0.0530
PCB 169 (BZ)	50:09	1128455	183973	1.294	10.00	11.114618	111.15	11.114618		0.0566
Total Heptachlorobiphenyl		19333563	2835809			253.054085		253.054085	B	1.15
13C12-PCB 188	39:55	1696330	315128	1.268	20.00	17.859566	89.30	17.859566		0.0221
13C12-PCB 178	43:02	1246660	224723	0.858	20.00	19.398175	96.99	19.398175		0.0327
13C12-PCB 180	48:11	1498021	270997	1.000	20.00	20.000000	100.00	20.000000		0.0280
13C12-PCB 170	49:29	1121466	196679	0.798	20.00	18.765858	93.83	18.765858		0.0351
13C12-PCB 189	52:39	3161606	549775	1.748	20.00	22.996191	114.98	22.996191		0.0159
PCB 188 (BZ)	39:56	955080	180792	1.072	10.00	10.502023	105.02	10.502023		0.0434
PCB 179 (BZ)	40:18	910905	164977	1.196	10.00	10.815341	108.15	10.815341		0.0479
PCB 184 (BZ)	40:49	871880	159878	1.185	10.00	10.446772	104.47	10.446772		0.0483
PCB 176 (BZ)	41:11	965341	173861	1.264	10.00	10.841183	108.41	10.841183		0.0453
PCB 186 (BZ)	41:40	913871	165927	1.204	10.00	10.777714	107.78	10.777714		0.0476
PCB 178 (BZ)	43:03	660276	122348	0.868	10.00	10.801764	108.02	10.801764		0.0660
PCB 175 (BZ)	43:41	699256	128005	0.934	10.00	10.628320	106.28	10.628320		0.0613
PCB 187 (BZ)	43:58	747988	138882	1.011	10.00	10.498929	104.99	10.498929		0.0566
PCB 182 (BZ)	44:10	737220	130837	0.989	10.00	10.581808	105.82	10.581808		0.0579
PCB 183 (BZ)	44:35	1433355	134169	0.939	20.00	21.679281	108.40	21.679281	C	0.0610
PCB 185 (BZ)		1433355		0.939	20.00	21.679281	108.40	21.679281	C183	0.0610
PCB 174 (BZ)	44:51	680015	123747	0.912	10.00	10.589689	105.90	10.589689		0.0628
PCB 177 (BZ)	45:17	652764	114318	0.866	10.00	10.700460	107.00	10.700460		0.0661
PCB 181 (BZ)	45:41	695938	128808	0.961	10.00	10.276497	102.76	10.276497		0.0596
PCB 171 (BZ)		1267417		0.828	20.00	21.732433	108.66	21.732433	C	0.0692
PCB 173 (BZ)	45:55	1267417	218127	0.828	20.00	21.732433	108.66	21.732433	C171	0.0692
PCB 172 (BZ)	47:33	608997	113851	0.829	10.00	10.422618	104.23	10.422618		0.0690
PCB 192 (BZ)	47:51	822523	146838	1.115	10.00	10.474247	104.74	10.474247		0.0514
PCB 193 (BZ)	48:10	1622368	212893	1.112	20.00	20.702148	103.51	20.702148	BC180	0.0515
PCB 180 (BZ)		1622368		1.112	20.00	20.702148	103.51	20.702148	BC	0.0515
PCB 191 (BZ)	48:35	890603	161682	1.264	10.00	9.998558	99.99	9.998558		0.0453
PCB 170 (BZ)	49:31	594199	104288	1.040	10.00	10.189532	101.90	10.189532		0.0716
PCB 190 (BZ)	50:03	887194	146182	1.213	10.00	10.385561	103.86	10.385561		0.0472
PCB 189 (BZ)	52:41	1716373	296419	1.085	10.00	10.009204	100.09	10.009204		0.0246
Total Octachlorobiphenyl		7518549	1199821			109.675153		109.675153		0.375
13C12-PCB 202	45:21	1322475	246630	0.910	20.00	19.398521	96.99	19.398521		0.0247
13C12-PCB 194	54:45	1573181	274202	1.000	20.00	20.000000	100.00	20.000000		0.0222
13C12-PCB 205	55:14	2102741	370874	1.413	20.00	18.915249	94.58	18.915249		0.0157
PCB 202 (BZ)	45:23	579362	106749	0.986	10.00	8.881992	88.82	8.881992		0.0374
PCB 200 (BZ)/201 (IUPAC)	46:19	648533	118400	1.114	10.00	8.800456	88.00	8.800456		0.0331
PCB 204 (BZ)	46:59	601074	111919	1.050	10.00	8.656768	86.57	8.656768		0.0351

STL - Knoxville

IsoCalc Preliminary Sample Report

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

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	4/25/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	12:58	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09IE01
Anal Exp Date	05/25/06	**Extract Vol**	200	**Method**	IE5
Instrument	M1D	**Dil Factor**	1.0	**Code**	IE5
Analyst	BFW				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
PCB 197 (BZ)		1233606		1.067	20.00	17.479074	87.40	17.479074	C	0.0346
PCB 199 (BZ)/200 (IUPAC)	47:22	1233606	116364	1.067	20.00	17.479074	87.40	17.479074	C197	0.0346
PCB 198 (BZ)	50:11	850658	116883	0.737	20.00	17.446617	87.23	17.446617	C	0.0500
PCB 201 (BZ)/199 (IUPAC)		850658		0.737	20.00	17.446617	87.23	17.446617	C198	0.0500
PCB 196 (BZ)	50:51	415973	72711	0.742	10.00	8.478543	84.79	8.478543		0.0497
PCB 203 (BZ)	51:03	451220	79069	0.820	10.00	8.321177	83.21	8.321177		0.0450
PCB 195 (BZ)	52:25	820808	142417	0.719	10.00	10.851948	108.52	10.851948		0.0341
PCB 194 (BZ)	54:46	869683	154437	0.788	10.00	10.500348	105.00	10.500348		0.0311
PCB 205 (BZ)	55:16	1047632	180872	0.971	10.00	10.258230	102.58	10.258230		0.0253
Total Nonachlorobiphenyl		1859472	332399			27.755728		27.755728		0.0812
13C12-PCB 208	52:07	1401249	253299	1.130	20.00	15.764877	78.82	15.764877		0.0181
13C12-PCB 206	56:58	963884	169144	0.773	20.00	15.843215	79.22	15.843215		0.0264
PCB 208 (BZ)	52:09	668676	121623	1.041	10.00	9.167100	91.67	9.167100		0.0239
PCB 207 (BZ)	53:05	692743	122539	1.284	10.00	9.125115	91.25	9.125115		0.0232
PCB 206 (BZ)	57:01	498053	88237	1.092	10.00	9.463513	94.64	9.463513		0.0341
13C12-PCB 209	58:36	953411	167565	0.834	20.00	14.537135	72.69	14.537135		0.0230
PCB 209 (BZ)	58:37	418166	76022	1.053	10.00	8.331131	83.31	8.331131		0.0329

STL - Knoxville

IsoCalc Preliminary Peak Report

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

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5k1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 12:58	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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	333	235	133	94	1.41 *	/	
	PCB 1 (BZ)	13:13	13:12	1	2092774	662068	650828	207447	3.16	AVV/AVV	
	PCB 2 (BZ)	15:26	15:26	0	1922371	600340	485691	152602	3.20	ABV/ABV	
	PCB 3 (BZ)	15:38	15:37	1	2003371	627435	488975	148618	3.19	AVB/AVB	
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	413	720	165	288	0.57 *	/	
	13C12-PCB 1	13:12	13:12	0	3066699	951994	918041	288086	3.22	AVV/AVV	
	13C12-PCB 3	15:38	15:36	2	3140148	963544	751128	232743	3.26	ABV/AVV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	540	550	216	220	0.98 *	/	
	PCB 4 (BZ)	15:54	15:54	0	724925	457503	191759	121533	1.58	ABV/ABV	
	PCB 10 (BZ)	16:05	16:06	-1	1105453	696962	286691	176331	1.59	AVV/AVV	
	PCB 9 (BZ)	18:03	18:04	-1	1125164	697725	271314	166032	1.61	ABV/ABV	
	PCB 7 (BZ)	18:14	18:14	0	1150602	718203	245690	156574	1.60	AVV/AVV	
	PCB 6 (BZ)	18:29	18:30	-1	1165889	731411	262066	161376	1.59	AVV/AVV	
	PCB 5 (BZ)	18:49	18:50	-1	1017773	636755	239720	150061	1.60	AVV/AVV	
	PCB 8 (BZ)	18:58	18:58	0	1199684	749697	256438	158865	1.60	AVB/AVB	
	PCB 14 (BZ)	20:42	20:43	-1	1361219	855955	278466	170469	1.59	ABV/ABV	
	PCB 11 (BZ)	21:36	21:37	-1	1202941	756606	242732	148864	1.59	ABV/ABV	
	PCB 13 (BZ)	21:56	21:53	3	2319247	1443574	339918	211347	1.61	AVV/AVV	
	PCB 15 (BZ)	22:16	22:14	2	1246156	813750	222009	144852	1.53	AVV/AVV	
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	283	203	113	81	1.40	/	
	13C12-PCB 4	15:53	15:53	0	1063925	675952	269746	176657	1.57	ABV/ABV	
	13C12-PCB 9	18:02	18:02	0	2099401	1313624	482939	303996	1.60	AVV/ABV	
	13C12-PCB 15	22:15	22:14	1	1831898	1113554	363306	220832	1.65	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	568	428	227	171	1.33 *	/	
	PCB 19 (BZ)	19:17	19:16	1	401027	404425	97240	95484	0.99	ABV/ABV	
	PCB 30 (BZ)	21:14	21:16	-2	1052521	1040653	177819	176438	1.01	ABV/ABV	
	PCB 17 (BZ)	21:42	21:42	0	459082	450414	98135	97499	1.02	ABV/ABV	
	PCB 27 (BZ)	21:56	21:57	-1	637169	627714	135178	134469	1.02	AVV/AVV	
	PCB 24 (BZ)	22:04	22:05	-1	600650	598158	127014	126628	1.00	AVV/AVV	
	PCB 16 (BZ)	22:12	22:12	0	391160	375621	84458	82289	1.04	AVB/AVB	
	PCB 32 (BZ)	22:45	22:47	-2	678389	666513	137534	136550	1.02	ABV/AVV	
	PCB 34 (BZ)	24:04	24:05	-1	1258322	1155772	261229	241040	1.09	ABV/ABV	
	PCB 23 (BZ)	24:13	24:14	-1	1226775	1210759	250893	242956	1.01	AVB/AVB	
	PCB 26 (BZ)	24:33	24:34	-1	2528257	2422942	430799	420353	1.04	ABV/ABV	
	PCB 25 (BZ)	24:48	24:47	1	1431695	1380596	261975	247747	1.04	AVV/AVV	
	PCB 31 (BZ)	25:07	25:08	-1	1301382	1256268	256478	244001	1.04	AVV/AVV	
	PCB 28 (BZ)	25:27	25:26	1	2607025	2516906	443963	435231	1.04	AVV/AVV	
	PCB 33 (BZ)	25:41	25:42	-1	2675585	2595305	330182	310721	1.03	AVV/AVV	M
	PCB 22 (BZ)	26:06	26:06	0	1240036	1199017	241411	224758	1.03	ABB/AVB	

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	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5k1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 12:58	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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)	27:44	27:44	0	1369516	1276736	248234	232708	1.07	AVV/AVV
	PCB 39 (BZ)	28:07	28:06	1	1379514	1318675	246535	230849	1.05	AVV/AVV
	PCB 38 (BZ)	28:43	28:43	0	1241506	1198006	225909	219065	1.04	AVV/ABV
	PCB 35 (BZ)	29:12	29:11	1	1235862	1194239	212265	200390	1.03	ABV/AVV
	PCB 37 (BZ)	29:39	29:36	3	1216977	1150087	203605	191702	1.06	AVV/AVV
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**	
	Noise	00:00	00:00	0	480	443	192	177	1.08	/
	13C12-PCB 19	19:15	19:16	-1	687740	668519	154951	149597	1.03	AVV/ABV
	13C12-PCB 32	22:43	22:44	-1	1448035	1397917	295963	290447	1.04	AVV/AVV
	13C12-PCB 31	25:06	25:06	0	2599594	2413419	504504	465858	1.08	ABV/ABV
	13C12-PCB 28	25:25	25:25	0	2439958	2261546	475801	432335	1.08	AVV/AVV
	13C12-PCB 37	29:37	29:35	2	1997606	1841142	337891	323345	1.08	ABV/ABV
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**	
	Noise	00:00	00:00	0	468	478	187	191	0.98 *	/
	PCB 54 (BZ)	22:34	22:34	0	457342	603472	97799	128702	0.76	ABV/ABV
	PCB 53 (BZ)	24:50	24:50	0	1148366	1445205	209916	264594	0.79	ABV/ABV
	PCB 45 (BZ)	25:36	25:33	3	1082355	1361376	129084	165859	0.80	AVV/AVV
	PCB 46 (BZ)	25:52	25:51	1	497286	593250	94166	114980	0.84	AVV/AVV
	PCB 52 (BZ)	27:19	27:21	-2	568984	717338	117216	144870	0.79	ABV/ABV
	PCB 73 (BZ)	27:28	27:30	-2	1243675	1559187	147234	190100	0.80	AVV/AVV
	PCB 69 (BZ)	27:48	27:47	1	1339489	1684294	181474	226885	0.80	AVB/AVB
	PCB 48 (BZ)	28:08	28:09	-1	545849	687570	110606	134136	0.79	ABV/ABV
	PCB 44 (BZ)	28:23	28:21	2	1884010	2375351	314237	387713	0.79	AVV/AVV
	PCB 59 (BZ)	28:42	28:42	0	2390773	2985467	360331	449641	0.80	AVV/AVV
	PCB 42 (BZ)	28:54	28:55	-1	577661	737515	110474	133223	0.78	AVB/AVB
	PCB 40 (BZ)	29:25	29:25	0	1724050	2173346	237646	298840	0.79	ABV/ABV
	PCB 64 (BZ)	29:40	29:39	1	882704	1089540	156214	193037	0.81	AVV/AVV
	PCB 72 (BZ)	30:29	30:32	-3	792078	999277	156424	198347	0.79	ABV/ABV
	PCB 68 (BZ)	30:47	30:49	-2	878710	1089646	148546	189182	0.81	AVV/AVV
	PCB 57 (BZ)	31:14	31:16	-2	779958	986242	147753	183719	0.79	ABV/ABV
	PCB 58 (BZ)	31:29	31:29	0	774167	983364	142441	182688	0.79	AVV/AVV
	PCB 67 (BZ)	31:39	31:39	0	878211	1120516	150875	190892	0.78	AVV/AVV
	PCB 63 (BZ)	31:56	31:57	-1	817316	1027194	148086	189830	0.80	AVV/AVV
	PCB 76 (BZ)	32:16	32:17	-1	3297108	4138208	322468	400726	0.80	AVV/AVV M
	PCB 66 (BZ)	32:37	32:38	-1	788159	1021230	147208	187000	0.77	AVV/AVV
	PCB 55 (BZ)	32:47	32:48	-1	811082	997475	147189	180407	0.81	AVV/AVV
	PCB 56 (BZ)	33:19	33:18	1	789499	984434	142105	178251	0.80	ABV/ABV
	PCB 60 (BZ)	33:32	33:32	0	773122	978700	137366	175507	0.79	AVV/AVV
	PCB 80 (BZ)	33:55	33:55	0	856420	1067369	155820	193051	0.80	AVV/AVV
	PCB 79 (BZ)	35:31	35:30	1	867700	1075807	138482	176501	0.81	ABV/ABV
	PCB 78 (BZ)	36:06	36:05	1	768363	924343	125287	154799	0.83	AVV/AVV
	PCB 81 (BZ)	36:33	36:32	1	770673	953424	134804	164799	0.81	AVV/AVV
	PCB 77 (BZ)	37:08	37:05	3	705181	902906	125032	157056	0.78	ABV/ABV
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**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	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 12:58	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**	
	Noise	00:00	00:00	0	183	178	73	71	1.03 *	/
	13C12-PCB 54	22:32	22:33	-1	763540	967764	162941	205471	0.79	ABV/ABV
	13C12-PCB 52	27:18	27:19	-1	1026039	1245905	198703	247485	0.82	ABV/ABV
	13C12-PCB 81	36:32	36:30	2	1137344	1405465	196651	236607	0.81	ABV/ABV
	13C12-PCB 77	37:07	37:04	3	1104174	1349691	185036	222712	0.82	ABV/ABV
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**	
	Noise	00:00	00:00	0	533	520	213	208	1.02 *	/
	PCB 104 (BZ)	28:17	28:19	-2	597089	382139	115658	76353	1.56	ABV/ABV
	PCB 96 (BZ)	28:42	28:44	-2	542245	356166	105820	70036	1.52	AVV/AVV
	PCB 103 (BZ)	30:40	30:43	-3	459187	286564	89853	53804	1.60	ABV/ABV
	PCB 94 (BZ)	30:54	30:56	-2	407467	261015	76754	51488	1.56	AVV/AVV
	PCB 95 (BZ)	31:22	31:24	-2	419116	270717	80365	50359	1.55	ABV/ABV
	PCB 100 (BZ)	31:35	31:37	-2	903707	574496	147813	96093	1.57	AVV/AVV
	PCB 102 (BZ)	31:43	31:45	-2	889815	573569	99301	63085	1.55	AVB/AVV
	PCB 88 (BZ)	32:15	32:12	3	855721	542841	92592	55056	1.58	ABV/ABV
	PCB 84 (BZ)	32:30	32:29	1	378414	246914	69009	46805	1.53	AVV/AVV
	PCB 89 (BZ)	32:58	33:00	-2	416330	266241	77177	50233	1.56	ABV/ABB
	PCB 121 (BZ)	33:22	33:25	-3	598599	383155	110488	70710	1.56	AVV/ABV
	PCB 92 (BZ)	33:46	33:48	-2	430162	272546	76712	50568	1.58	AVB/AVB
	PCB 113 (BZ)	34:21	34:20	1	1535049	979742	215496	139119	1.57	ABV/AVV
	PCB 99 (BZ)	34:58	35:00	-2	818514	527504	94348	62058	1.55	ABV/ABV
	PCB 112 (BZ)	35:05	35:06	-1	608022	391661	106305	70260	1.55	AVB/AVB
	PCB 109 (BZ)/108 (IUPAC	35:27	35:28	-1	3079953	1956844	329070	212695	1.57	ABV/ABV
	PCB 85 (BZ)	36:14	36:15	-1	1541034	1013410	179739	121863	1.52	ABV/ABV
	PCB 115 (BZ)	36:28	36:29	-1	1223515	770256	122345	77429	1.59	AVV/AVV
	PCB 82 (BZ)	36:44	36:45	-1	387670	248817	68975	41112	1.56	AVB/AVB
	PCB 111 (BZ)	37:07	37:07	0	608006	393804	112200	70924	1.54	ABV/ABV
	PCB 120 (BZ)	37:34	37:36	-2	609356	379868	111993	71478	1.60	AVB/AVV
	PCB 124 (BZ)	38:45	38:46	-1	2436200	1511494	429508	268045	1.61	ABV/ABV
	PCB 107 (BZ)/109 (IUPAC	39:00	39:00	0	1176923	729037	218353	134736	1.61	AVV/AVV
	PCB 123 (BZ)	39:08	39:07	1	1264652	782984	234698	142365	1.62	AVV/AVV
	PCB 106 (BZ)	39:15	39:16	-1	1274518	782991	223761	138122	1.63	AVV/AVV
	PCB 118 (BZ)	39:28	39:28	0	1331736	823351	222781	140208	1.62	AVB/AVB
	PCB 122 (BZ)	39:49	39:49	0	1134102	696378	214175	128692	1.63	ABV/ABV
	PCB 114 (BZ)	40:00	40:01	-1	1366745	841105	230941	140631	1.62	AVV/AVV
	PCB 105 (BZ)	40:41	40:40	1	1249803	784420	217123	132491	1.59	ABV/AVV
	PCB 127 (BZ)	42:10	42:09	1	1137633	693356	196416	120794	1.64	AVV/AVV
	PCB 126 (BZ)	43:49	43:45	4	1122922	692543	168920	107722	1.62	AVV/AVV
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**	
	Noise	00:00	00:00	0	283	233	113	93	1.22 *	/
	13C12-PCB 104	28:16	28:18	-2	954543	608305	189706	121103	1.57	ABV/ABV
	13C12-PCB 101	34:20	34:22	-2	884646	559368	161079	98173	1.58	AVV/ABV
	13C12-PCB 111	37:05	37:06	-1	1094845	718567	207383	134875	1.52	AVV/AVV
	13C12-PCB 123	39:05	39:06	-1	2159946	1322737	388629	236571	1.63	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 (Solid/Air Table 4)

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5k1.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 12:58	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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 118	39:25	39:26	-1	2375431	1451897	416030	253518	1.64	AVV/AVV	
	13C12-PCB 114	39:59	39:59	0	2229710	1360836	379222	239468	1.64	AVV/AVV	
	13C12-PCB 105	40:40	40:38	2	2194926	1360393	377718	230898	1.61	ABV/ABV	
	13C12-PCB 127	42:09	42:07	2	2437095	1495702	420390	260632	1.63	ABV/ABV	
	13C12-PCB 126	43:48	43:45	3	1951072	1194899	329753	205709	1.63	ABV/ABV	
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	Noise	00:00	00:00	0	503	485	201	194	1.04 *	/	
	PCB 155 (BZ)	34:06	34:10	-4	463014	393916	90224	75567	1.18	ABV/ABV	
	PCB 152 (BZ)	34:20	34:23	-3	453134	377771	85741	71099	1.20	AVV/AVV	
	PCB 150 (BZ)	34:30	34:32	-2	459332	376806	85986	70443	1.22	AVV/AVV	
	PCB 136 (BZ)	34:53	34:55	-2	434619	366378	80094	66402	1.19	AVV/AVV	
	PCB 145 (BZ)	35:11	35:13	-2	455898	376832	86625	73823	1.21	AVB/AVB	
	PCB 148 (BZ)	36:42	36:45	-3	325298	280556	57965	52371	1.16	ABV/ABV	
	PCB 151 (BZ)	37:22	37:20	2	641681	539506	75655	61572	1.19	ABV/ABV	
	PCB 154 (BZ)	37:33	37:36	-3	382553	324621	73831	60119	1.18	AVV/AVB	
	PCB 144 (BZ)	37:53	37:56	-3	327530	277114	60425	51731	1.18	AVB/ABB	
	PCB 147 (BZ)	38:16	38:17	-1	1296669	1019316	244975	190412	1.27	ABV/ABV	
	PCB 143 (BZ)	38:34	38:36	-2	1146796	891195	115450	93397	1.29	AVV/AVV	
	PCB 139 (BZ)	38:53	38:54	-1	1309678	1014256	229629	174939	1.29	AVV/AVV	
	PCB 131 (BZ)	39:05	39:06	-1	572753	446472	103421	79331	1.28	AVV/AVV	
	PCB 142 (BZ)	39:15	39:17	-2	556598	439343	105166	84719	1.27	AVV/AVV	
	PCB 132 (BZ)	39:34	39:34	0	564427	438948	99624	81307	1.29	AVB/AVB	
	PCB 133 (BZ)	40:03	40:05	-2	610074	478976	110716	86242	1.27	ABV/ABV	
	PCB 165 (BZ)	40:27	40:29	-2	786618	626155	142829	115380	1.26	AVV/AVV	
	PCB 146 (BZ)	40:42	40:43	-1	656511	520679	126977	96490	1.26	AVV/AVV	
	PCB 161 (BZ)	40:51	40:53	-2	877359	677416	153899	118719	1.30	AVB/AVV	
	PCB 153 (BZ)	41:22	41:22	0	1609894	1257417	234598	181822	1.28	ABV/ABV	
	PCB 141 (BZ)	41:32	41:33	-1	641941	502262	110704	86020	1.28	AVV/AVV	
	PCB 130 (BZ)	41:58	41:58	0	563141	433738	103676	78097	1.30	ABV/ABV	
	PCB 164 (BZ)	42:18	42:18	0	1490438	1161616	152871	116798	1.28	AVV/AVV	
	PCB 138 (BZ)	42:37	42:35	2	2873320	2231775	291922	226620	1.29	AVV/AVV	
	PCB 158 (BZ)	43:00	42:59	1	946233	713528	168787	128288	1.33	AVB/AVB	
	PCB 166 (BZ)	43:53	43:52	1	1464146	1136601	225132	175340	1.29	AVV/AVV	
	PCB 159 (BZ)	44:54	44:53	1	830875	642421	146337	114938	1.29	AVV/AVV	
	PCB 162 (BZ)	45:11	45:10	1	884732	673273	152044	118374	1.31	AVV/AVV	
	PCB 167 (BZ)	45:40	45:39	1	850502	647907	150047	114005	1.31	ABB/ABB	
	PCB 156 (BZ)	46:51	46:48	3	1768306	1389152	222400	174591	1.27	AVV/ABV	
	PCB 169 (BZ)	50:09	50:04	5	651078	477377	108073	75900	1.36	ABV/ABV	M
372					**371.8817**	**373.8788**	**371.8817**	**373.8788**	**1.05-1.43**		
	Noise	00:00	00:00	0	243	225	97	90	1.08	/	
	13C12-PCB 155	34:05	34:08	-3	847450	711867	162844	137097	1.19	ABV/ABV	
	13C12-PCB 138	42:35	42:34	1	1245808	975518	222926	176050	1.28	ABV/ABV	
	Unidentified	43:00	00:00	0	15388	7064	3566	1471	2.18 *	ABB/ABB	R
	13C12-PCB 167	45:38	45:37	1	1417199	1102536	255854	200289	1.29	AVV/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 (Solid/Air Table 4)

IsoCalc

Workorder	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 12:58	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**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**		
	13C12-PCB 156	46:50	46:48	2	2932477	2262976	377724	291884	1.30	AVV/ABV	
	13C12-PCB 169	50:08	50:04	4	888473	681192	149736	119966	1.30	ABV/ABV	
394					**393.8025**	**395.7995**	**393.8025**	**395.7995**	**0.89-1.21**		
	Noise	00:00	00:00	0	390	343	156	137	1.14	/	
	PCB 188 (BZ)	39:56	39:59	-3	489804	465276	94342	86450	1.05	ABV/ABV	
	PCB 179 (BZ)	40:18	40:20	-2	461082	449823	82609	82368	1.03	AVV/AVV	
	PCB 184 (BZ)	40:49	40:52	-3	443279	428601	82096	77782	1.03	AVV/ABV	
	PCB 176 (BZ)	41:11	41:14	-3	492667	472674	89891	83970	1.04	AVV/AVV	
	PCB 186 (BZ)	41:40	41:42	-2	465280	448591	85768	80159	1.04	ABV/ABV	
	PCB 178 (BZ)	43:03	43:04	-1	339371	320905	62647	59701	1.06	ABV/ABV	
	PCB 175 (BZ)	43:41	43:43	-2	356215	343041	65538	62467	1.04	ABV/ABV	
	PCB 187 (BZ)	43:58	43:59	-1	382579	365409	71170	67712	1.05	AVV/AVV	
	PCB 182 (BZ)	44:10	44:10	0	381221	355999	66900	63937	1.07	AVB/AVB	
	PCB 183 (BZ)	44:35	44:37	-2	736162	697193	69641	64528	1.06	ABV/ABV	M
	PCB 174 (BZ)	44:51	44:49	2	350739	329276	64704	59043	1.07	AVB/AVB	
	PCB 177 (BZ)	45:17	45:18	-1	329751	323013	58927	55391	1.02	ABB/ABB	
	PCB 181 (BZ)	45:41	45:42	-1	352723	343215	65579	63229	1.03	ABV/ABV	
	PCB 173 (BZ)	45:55	45:53	2	640869	626548	111901	106226	1.02	AVB/AVB	
	PCB 172 (BZ)	47:33	47:34	-1	311558	297439	58534	55317	1.05	ABB/ABB	
	PCB 192 (BZ)	47:51	47:51	0	419677	402846	72231	74607	1.04	ABV/ABV	
	PCB 193 (BZ)	48:10	48:09	1	828178	794190	107169	105724	1.04	AVB/AVV	
	PCB 191 (BZ)	48:35	48:35	0	458746	431857	81846	79836	1.06	ABB/ABB	
	PCB 170 (BZ)	49:31	49:30	1	302846	291353	54426	49862	1.04	ABV/ABV	
	PCB 190 (BZ)	50:03	50:02	1	451528	435666	74425	71757	1.04	ABB/ABB	
	PCB 189 (BZ)	52:41	52:38	3	888733	827640	157670	138749	1.07	AVB/ABV	
406					**405.8428**	**407.8398**	**405.8428**	**407.8398**	**0.89-1.21**		
	Noise	00:00	00:00	0	190	190	76	76	1.00	/	
	13C12-PCB 188	39:55	39:58	-3	868707	827623	159225	155903	1.05	ABV/ABV	
	13C12-PCB 178	43:02	43:01	1	636006	610654	114825	109898	1.04	ABV/ABV	
	13C12-PCB 180	48:11	48:12	-1	773078	724943	138990	132007	1.07	ABV/ABV	
	13C12-PCB 170	49:29	49:28	1	571581	549885	100269	96410	1.04	ABV/AVV	
	13C12-PCB 189	52:39	52:37	2	1638257	1523349	284035	265740	1.08	ABV/ABV	
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**		
	Noise	00:00	00:00	0	243	213	97	85	1.14 *	/	
	PCB 202 (BZ)	45:23	45:24	-1	272521	306841	50017	56732	0.89	ABV/ABV	
	PCB 200 (BZ)/201 (IUPAC	46:19	46:21	-2	300074	348459	53829	64571	0.86	ABB/ABV	
	PCB 204 (BZ)	46:59	47:02	-3	277312	323762	52866	59053	0.86	ABV/ABV	
	PCB 199 (BZ)/200 (IUPAC	47:22	47:23	-1	574566	659040	55229	61135	0.87	AVB/AVV	
	PCB 198 (BZ)	50:11	50:10	1	392128	458530	54425	62458	0.86	ABV/ABV	
	PCB 196 (BZ)	50:51	50:52	-1	193173	222800	33535	39176	0.87	ABV/ABV	
	PCB 203 (BZ)	51:03	51:04	-1	211390	239830	35953	43116	0.88	AVB/AVB	
	PCB 195 (BZ)	52:25	52:25	0	398898	421910	68253	74164	0.95	AVV/ABV	
	PCB 194 (BZ)	54:46	54:47	-1	419148	450535	75056	79381	0.93	ABV/ABV	
	PCB 205 (BZ)	55:16	55:14	2	503914	543718	85761	95111	0.93	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 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	H2W5K1AD	**Prep Batch**	6100050	**Lot No**	H6D100000-050
Data File	/20060425s1/aph2w5kl.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90289	**Prep Exp Date**	04/27/06	**Date Received**	04/10/06
Analysis Date	04/25/06 12:58	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/25/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09IE01
Instrument	M1D	**Extract Vol**	200 uL	**Method**	IE5
Analyst	BFW	**Diluton Factor**	1.00	**Code**	IE5

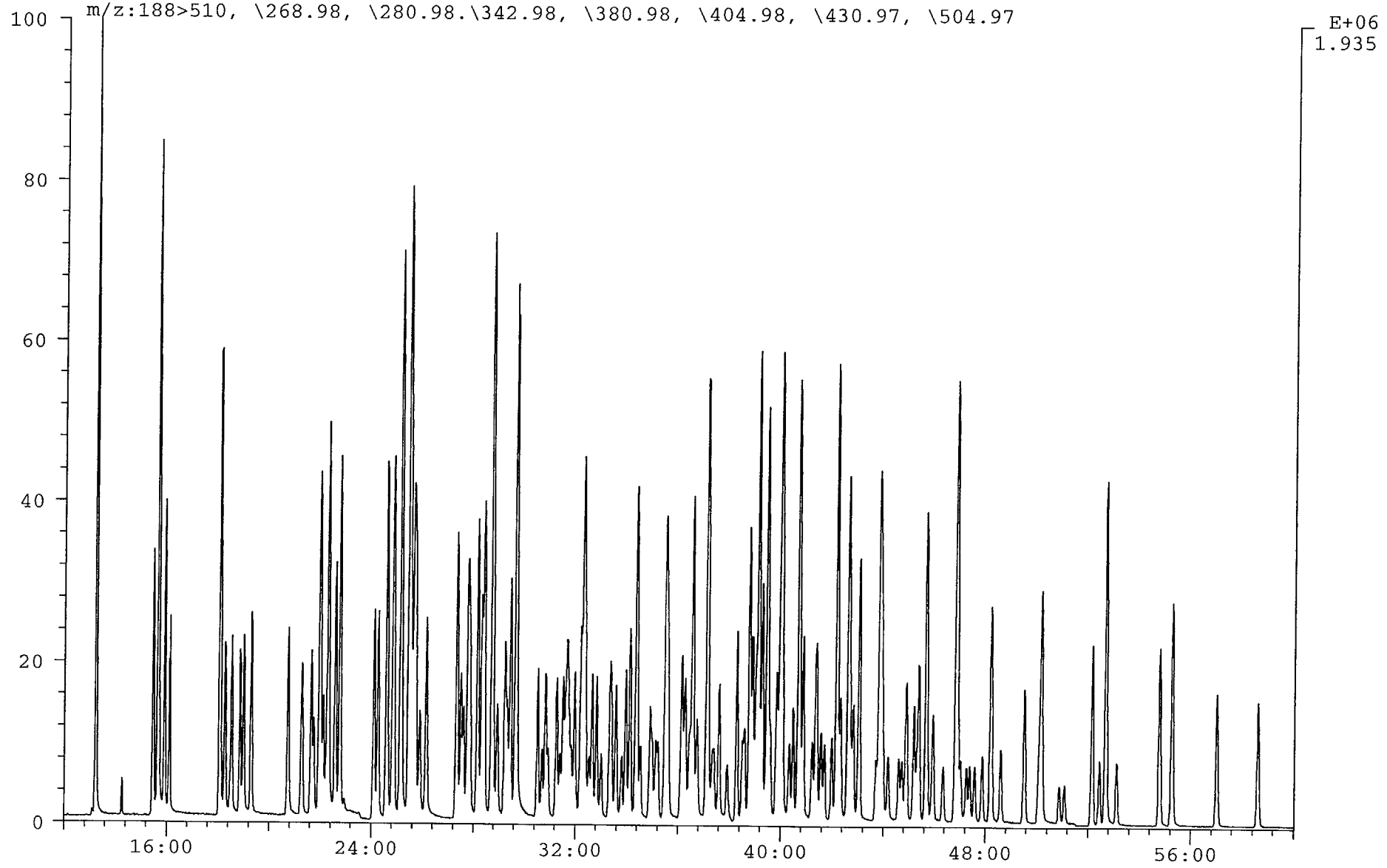
View Small Peaks? False **View deleted peaks?** False

Mass Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
440				**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**	
Noise	00:00	00:00	0	155	150	62	60	1.03 *	/
13C12-PCB 202	45:21	45:23	-2	620377	702098	112831	133799	0.88	ABV/ABV
13C12-PCB 194	54:45	54:44	1	749983	823198	129791	144411	0.91	ABV/ABV
13C12-PCB 205	55:14	55:13	1	1000508	1102233	174737	196137	0.91	AVV/ABV
462				**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**	
Noise	00:00	00:00	0	158	158	63	63	1.00 *	/
PCB 208 (BZ)	52:09	52:10	-1	290565	378111	52756	68867	0.77	ABV/ABV
PCB 207 (BZ)	53:05	53:07	-2	304618	388125	53249	69290	0.78	ABV/ABV
PCB 206 (BZ)	57:01	56:59	2	217902	280151	38579	49658	0.78	ABV/ABV
474				**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**	
Noise	00:00	00:00	0	138	143	55	57	0.96 *	/
13C12-PCB 208	52:07	52:08	-1	610352	790897	109751	143548	0.77	ABV/ABV
13C12-PCB 206	56:58	56:59	-1	422508	541376	74584	94560	0.78	ABV/ABV
496				**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**	
Noise	00:00	00:00	0	128	163	51	65	0.78	/
PCB 209 (BZ)	58:37	58:36	1	170459	247707	31032	44990	0.69	ABV/ABV
508				**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**	
Noise	00:00	00:00	0	138	125	55	50	1.10 *	/
13C12-PCB 209	58:36	58:36	0	390140	563271	67266	100299	0.69	ABV/ABV

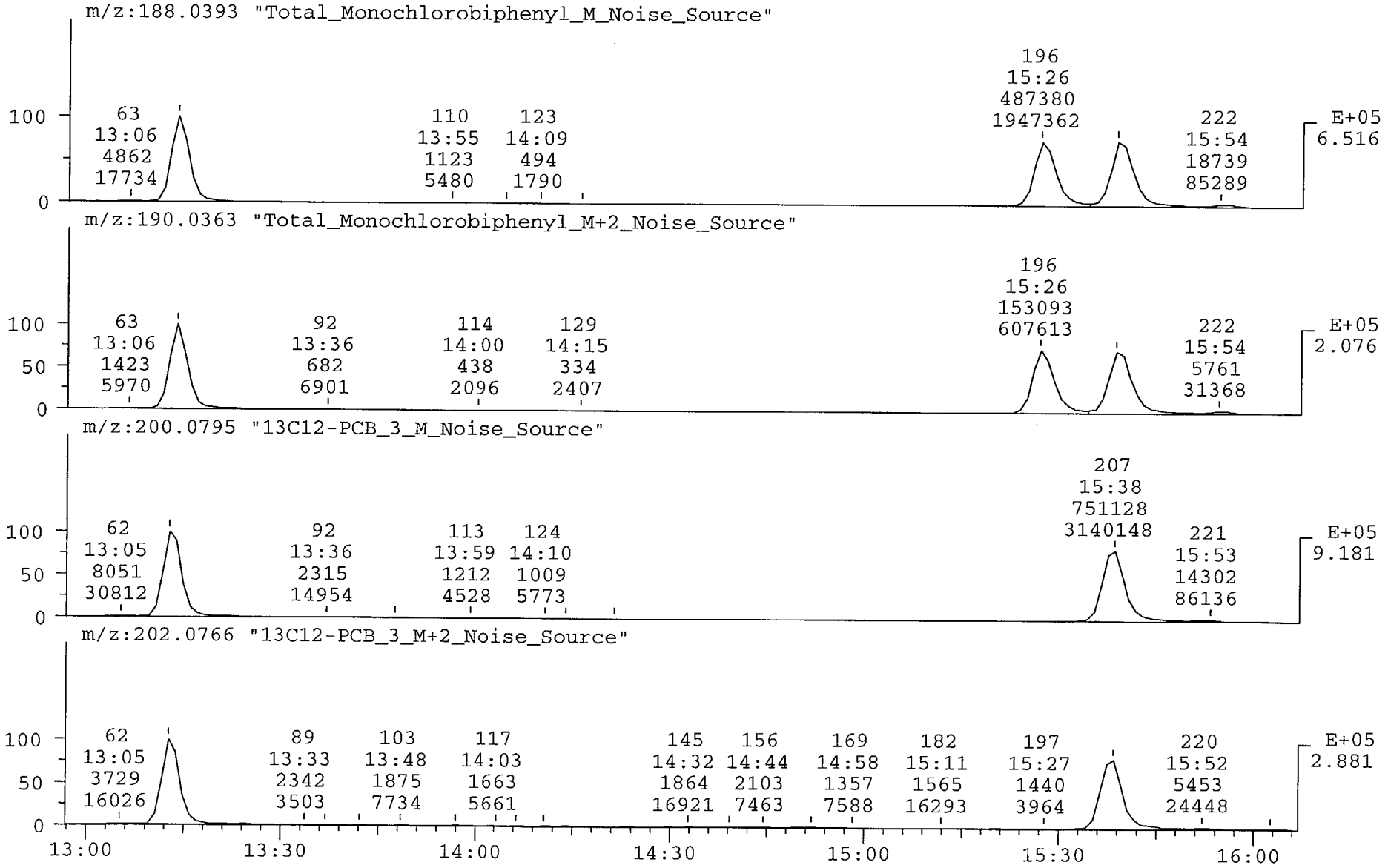
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: aph2w5kl 25-Apr-06 Elapse: 12:00.7 1
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2 > 2715 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

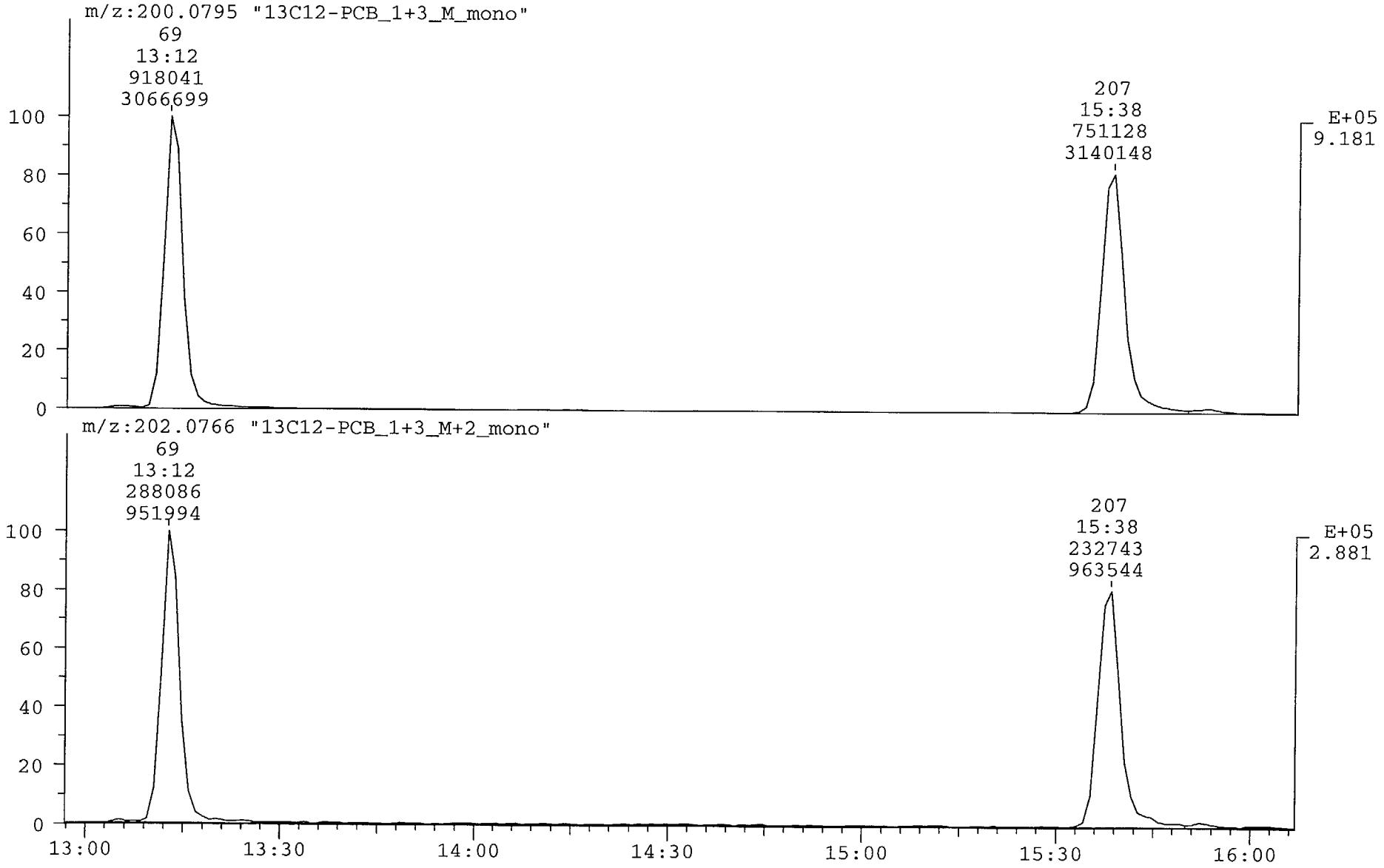
Int BFW 4/25/06
Calc BFW 4/26/06
QC 4/26/06
Rev QCs 4/27/06



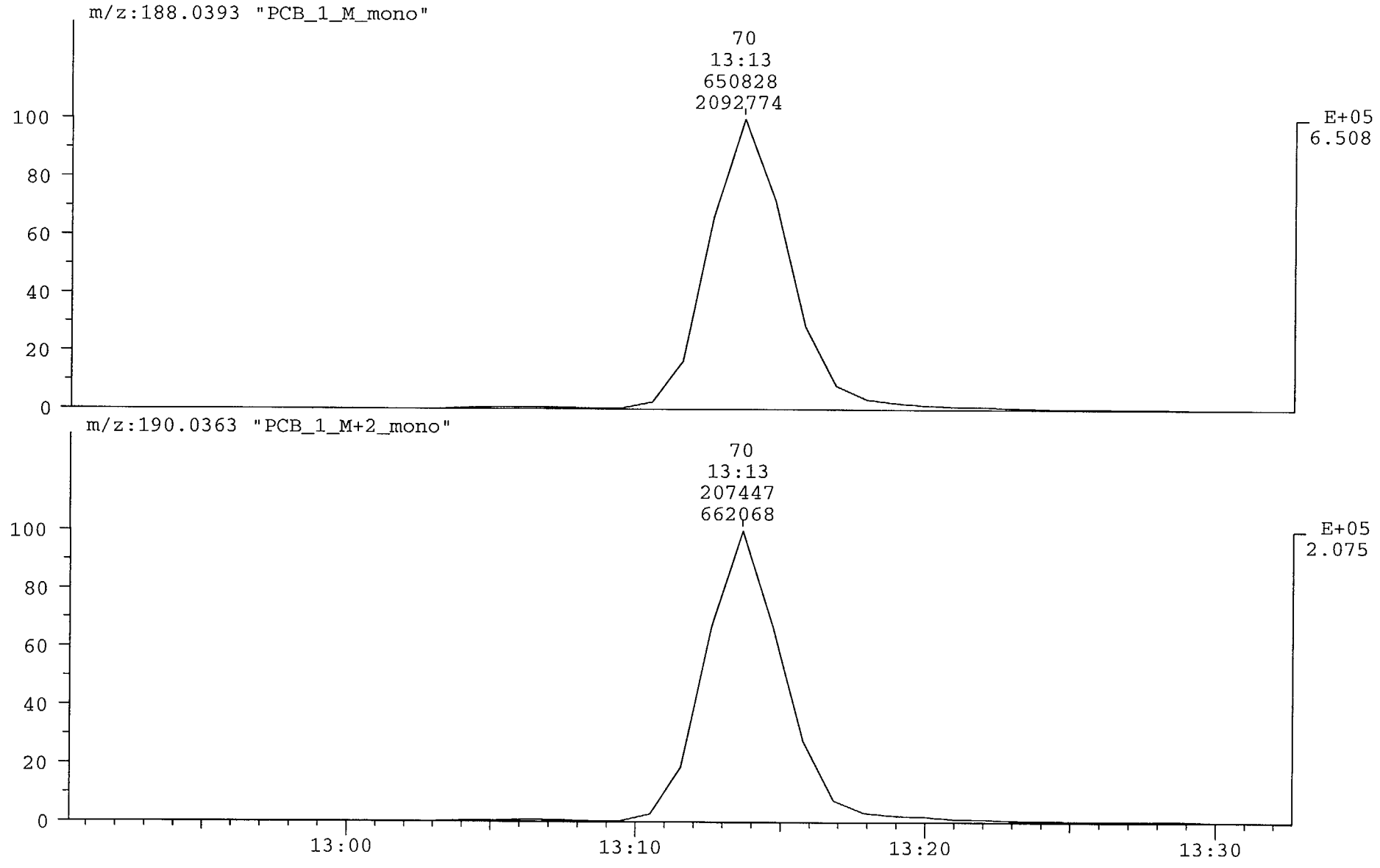
CHRO: aph2w5k1 25-Apr-06 Elapse: 14:31.8 144
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 54 > 234 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



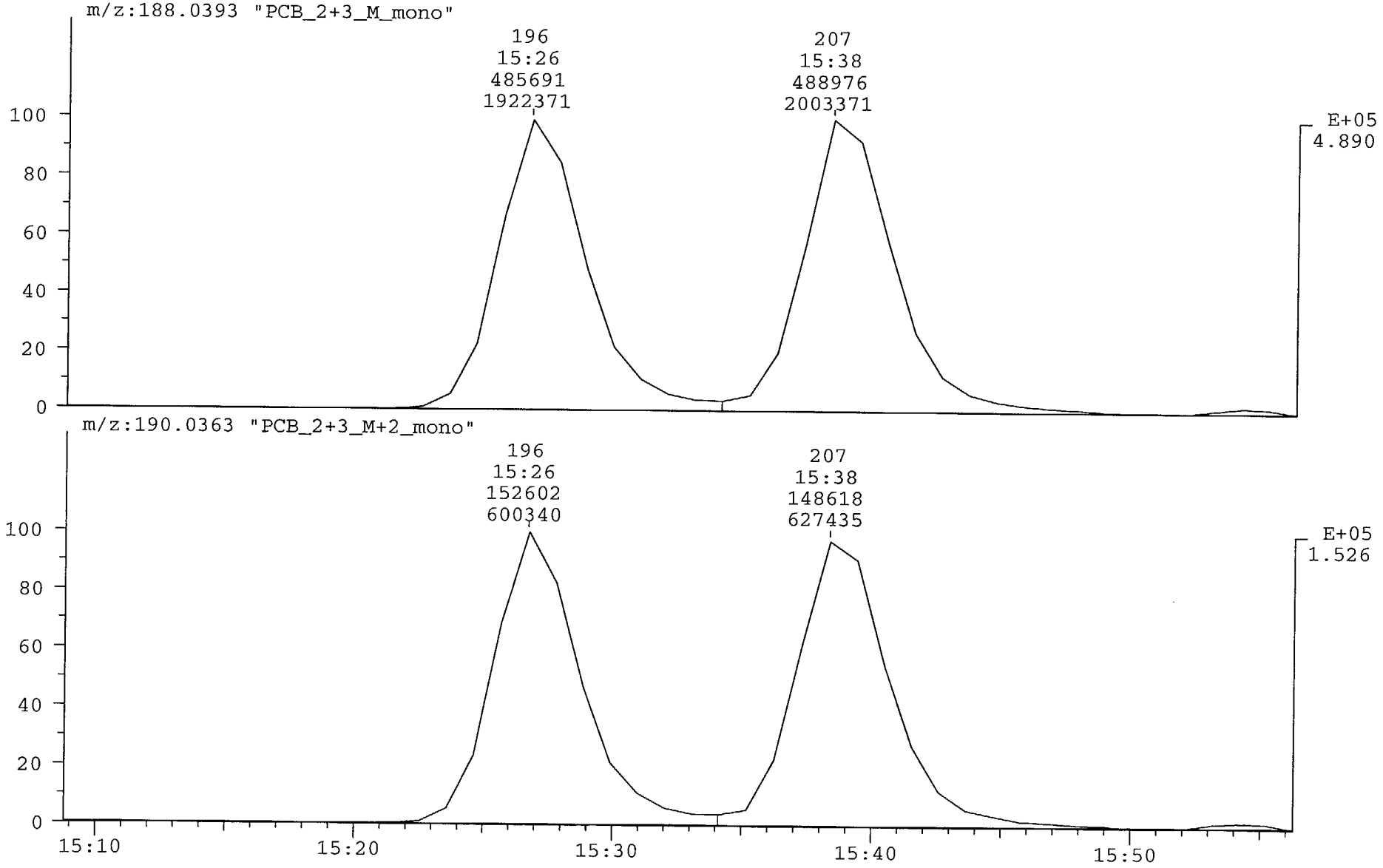
CHRO: aph2w5k1 25-Apr-06 Elapse: 14:31.8 144
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 54 > 234 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



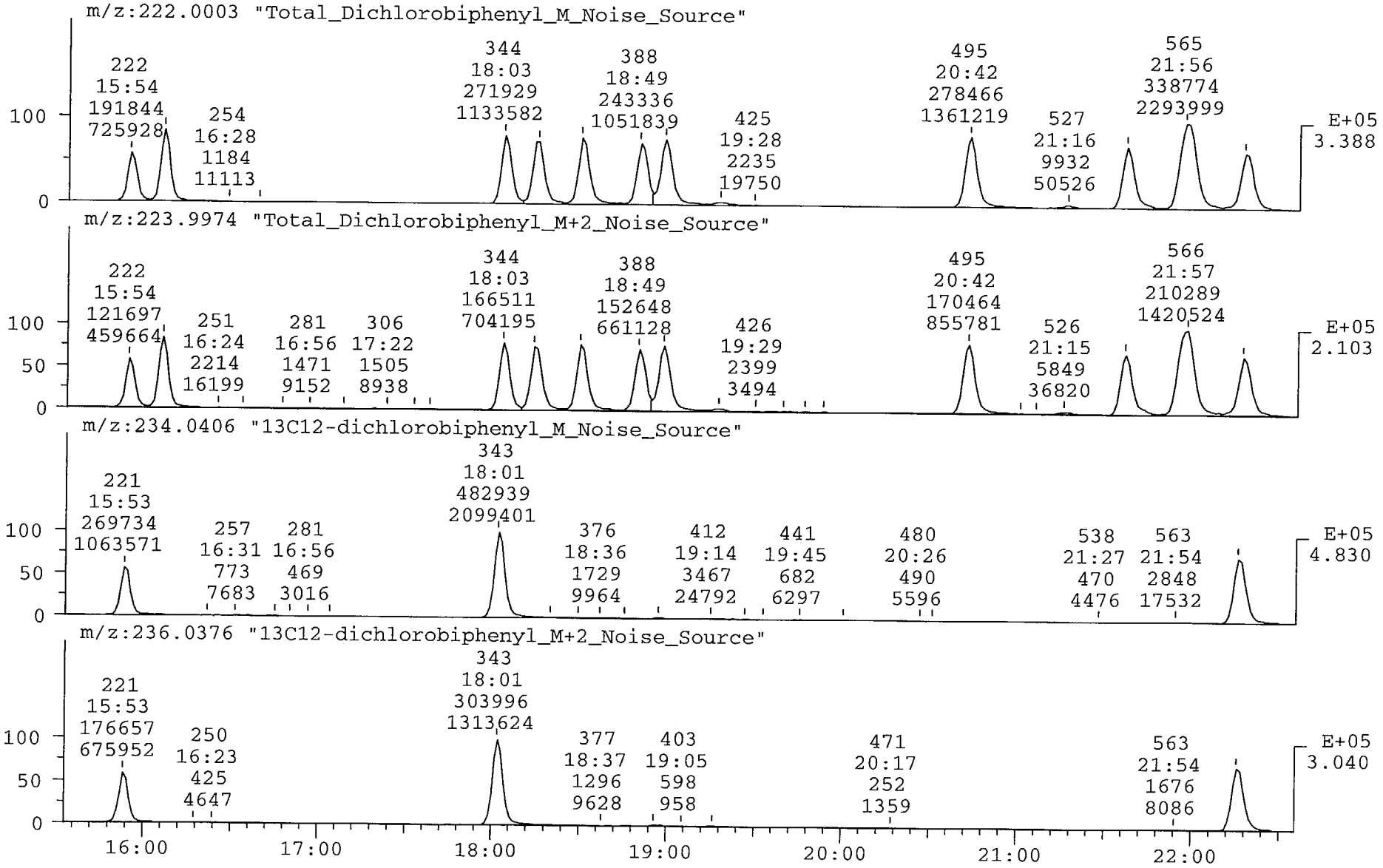
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  13:11.5       68
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17    2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L              Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   48 > 88               Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



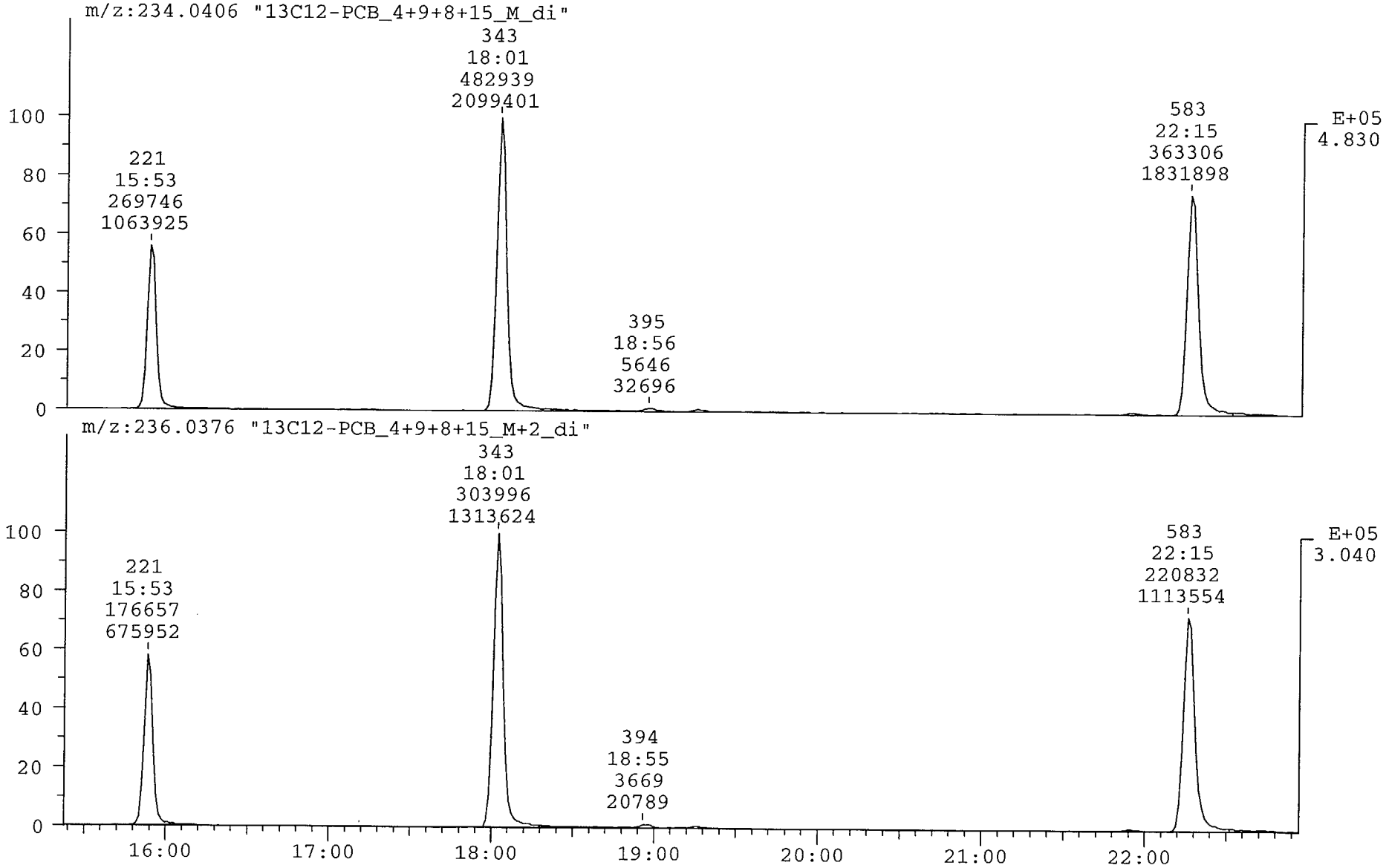
CHRO: aph2w5k1 25-Apr-06 Elapse: 15:35.2 204
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 179 > 224 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



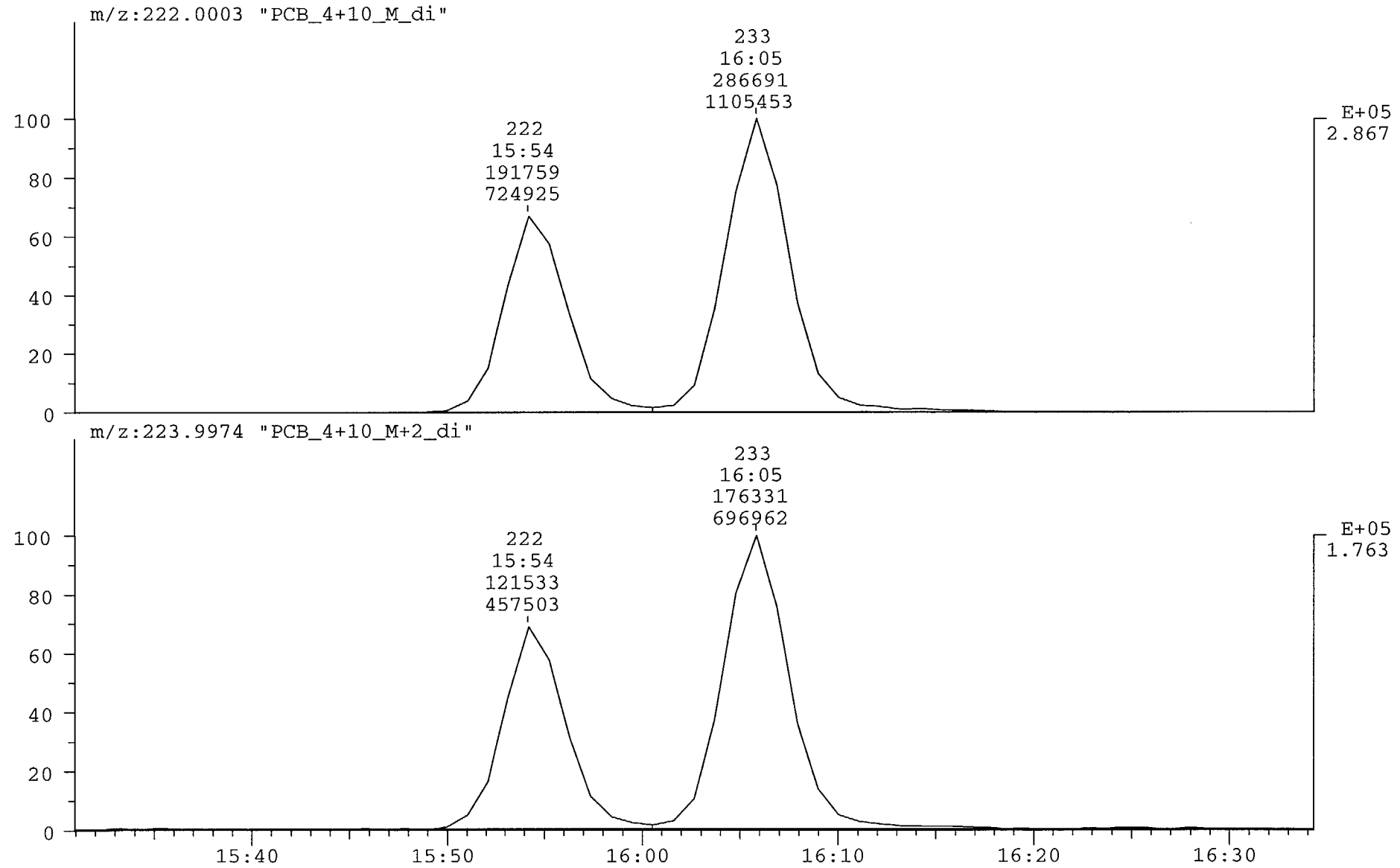
CHRO: aph2w5kl 25-Apr-06 Elapse: 19:04.3 402
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 202 > 602 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



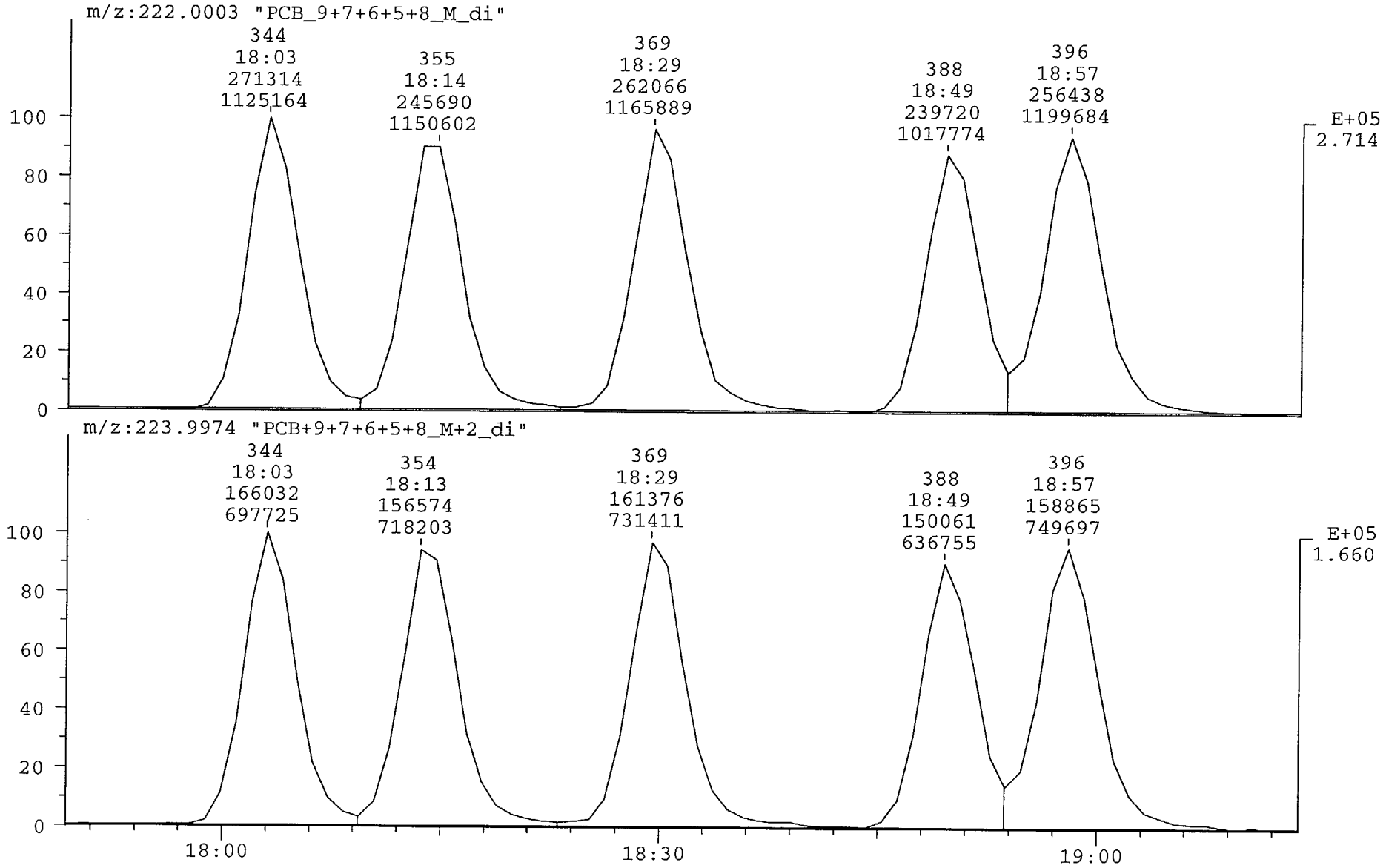
CHRO: aph2w5k1 25-Apr-06 Elapse: 19:04.3 402
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 192 > 622 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



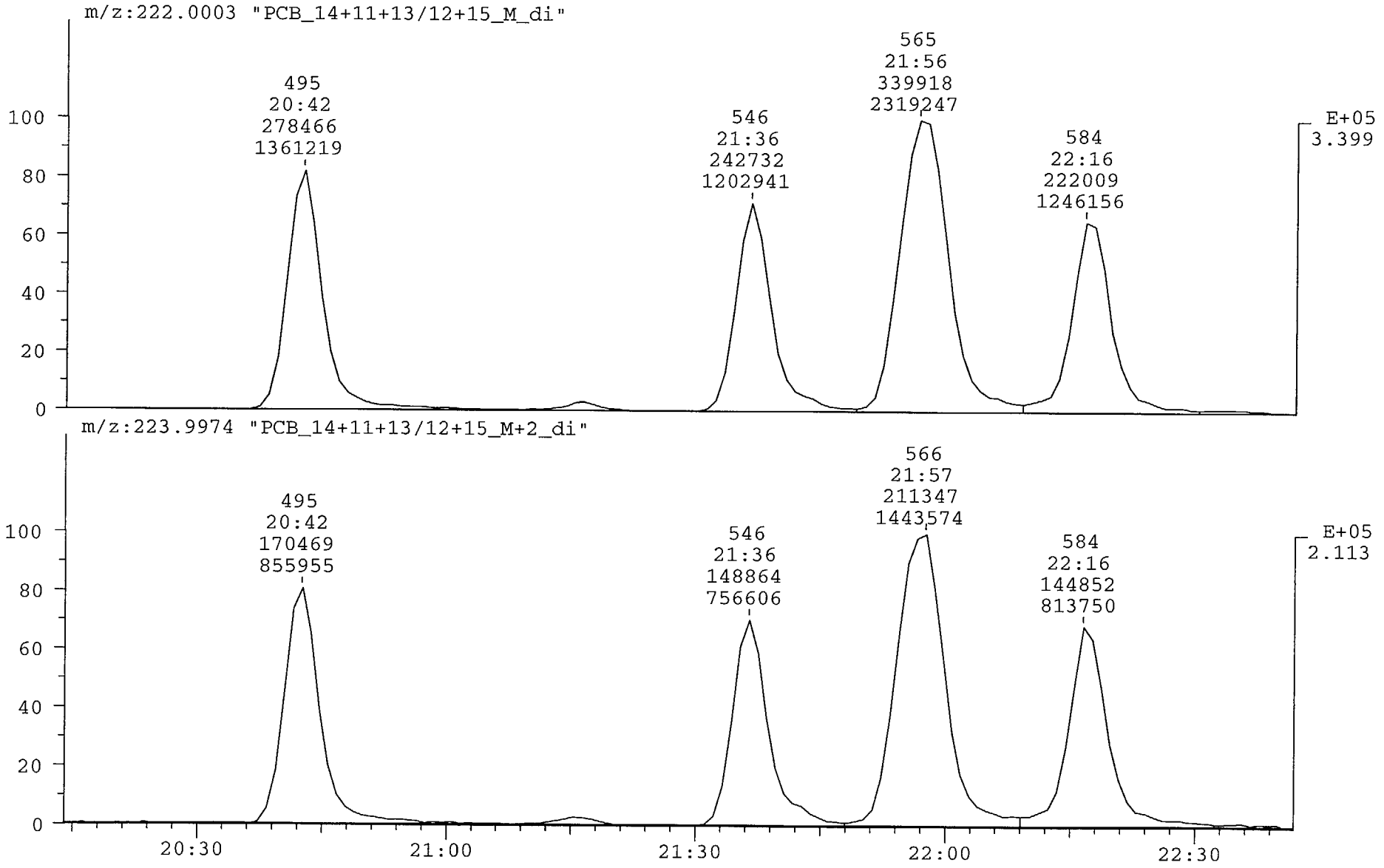
CHRO: aph2w5kl 25-Apr-06 Elapse: 16:02.6 230
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 200 > 260 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



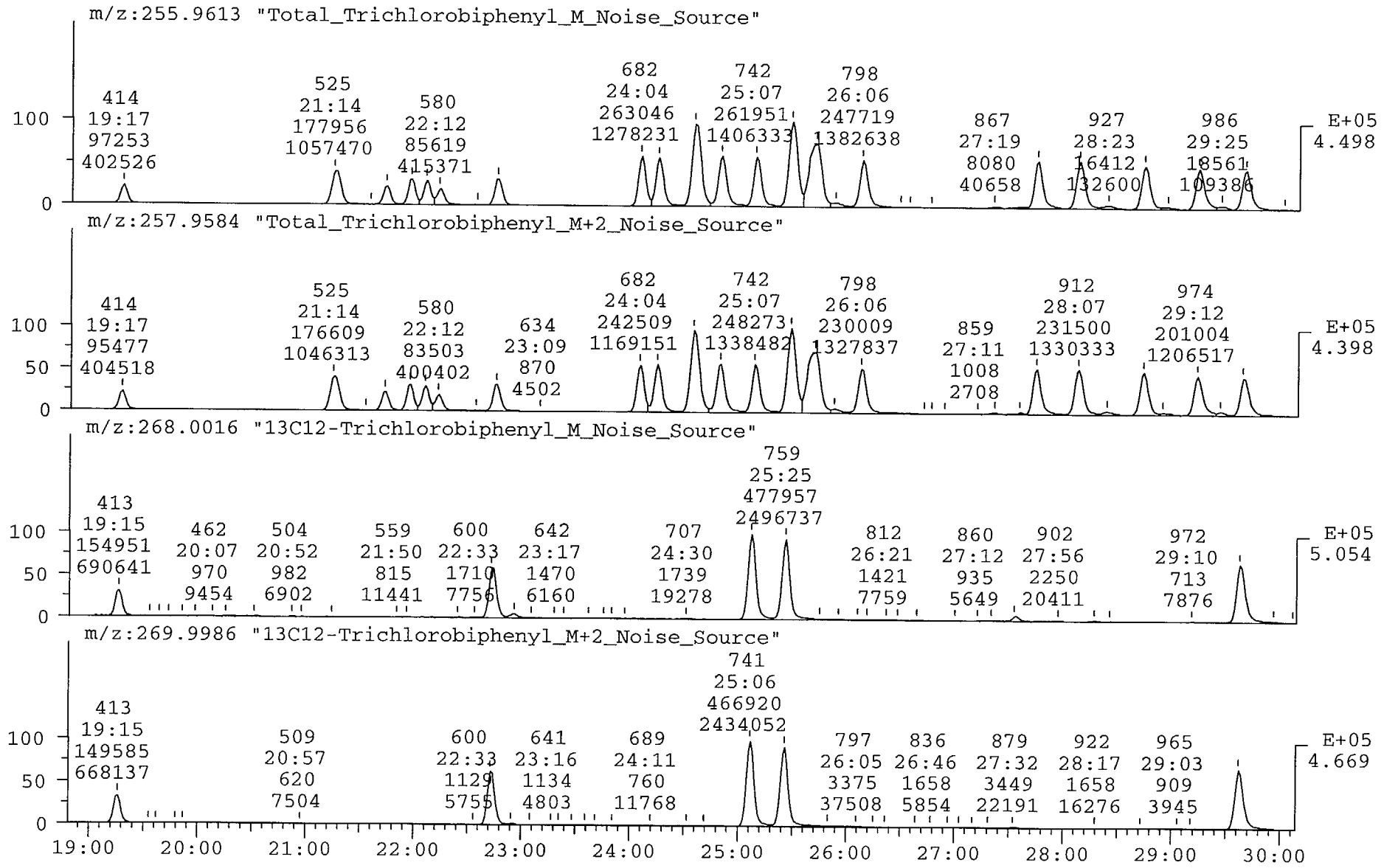
CHRO: aph2w5k1 25-Apr-06 Elapse: 18:33.6 373
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 331 > 411 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



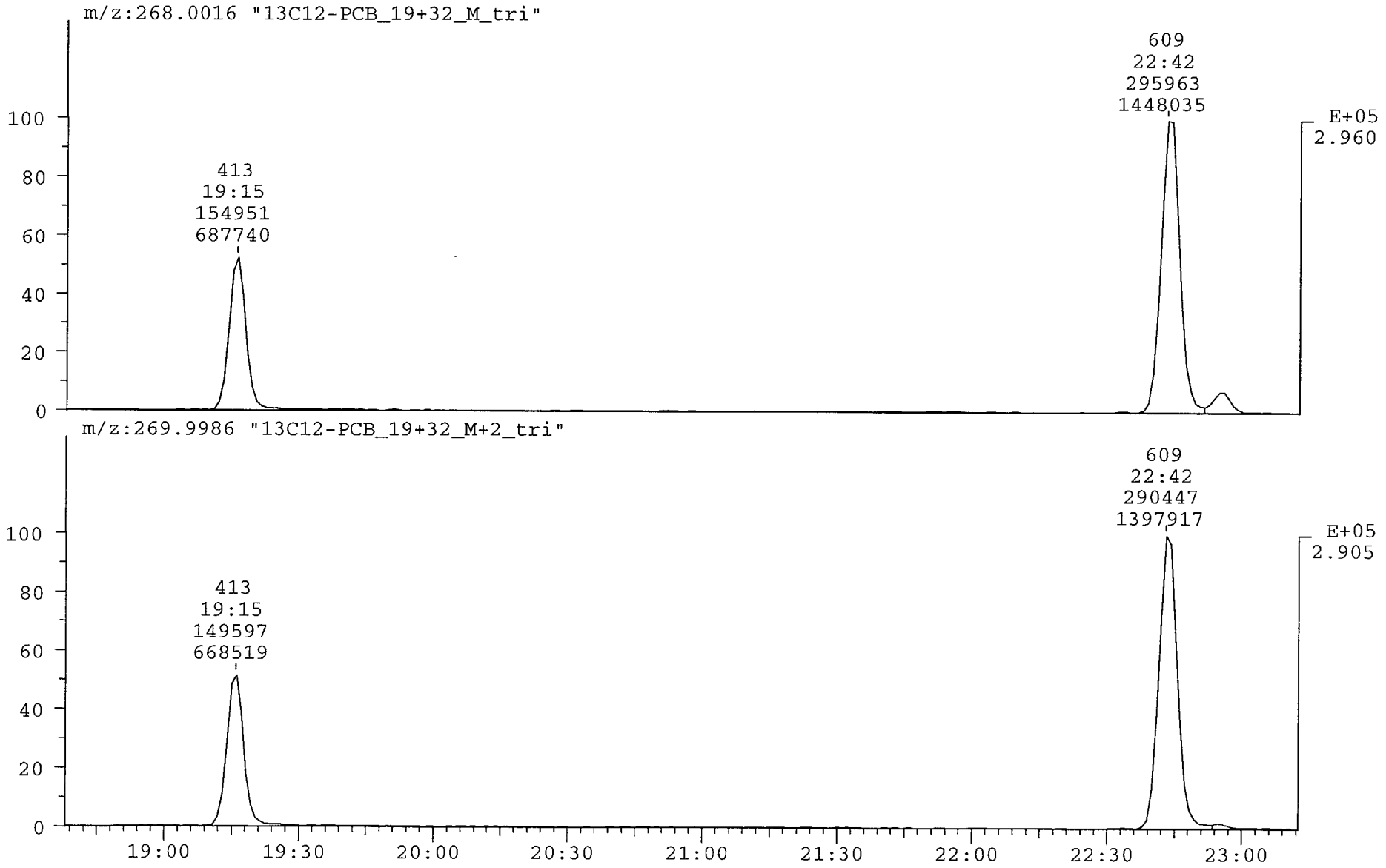
CHRO: aph2w5k1 25-Apr-06 Elapse: 21:27.9 538
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 468 > 608 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



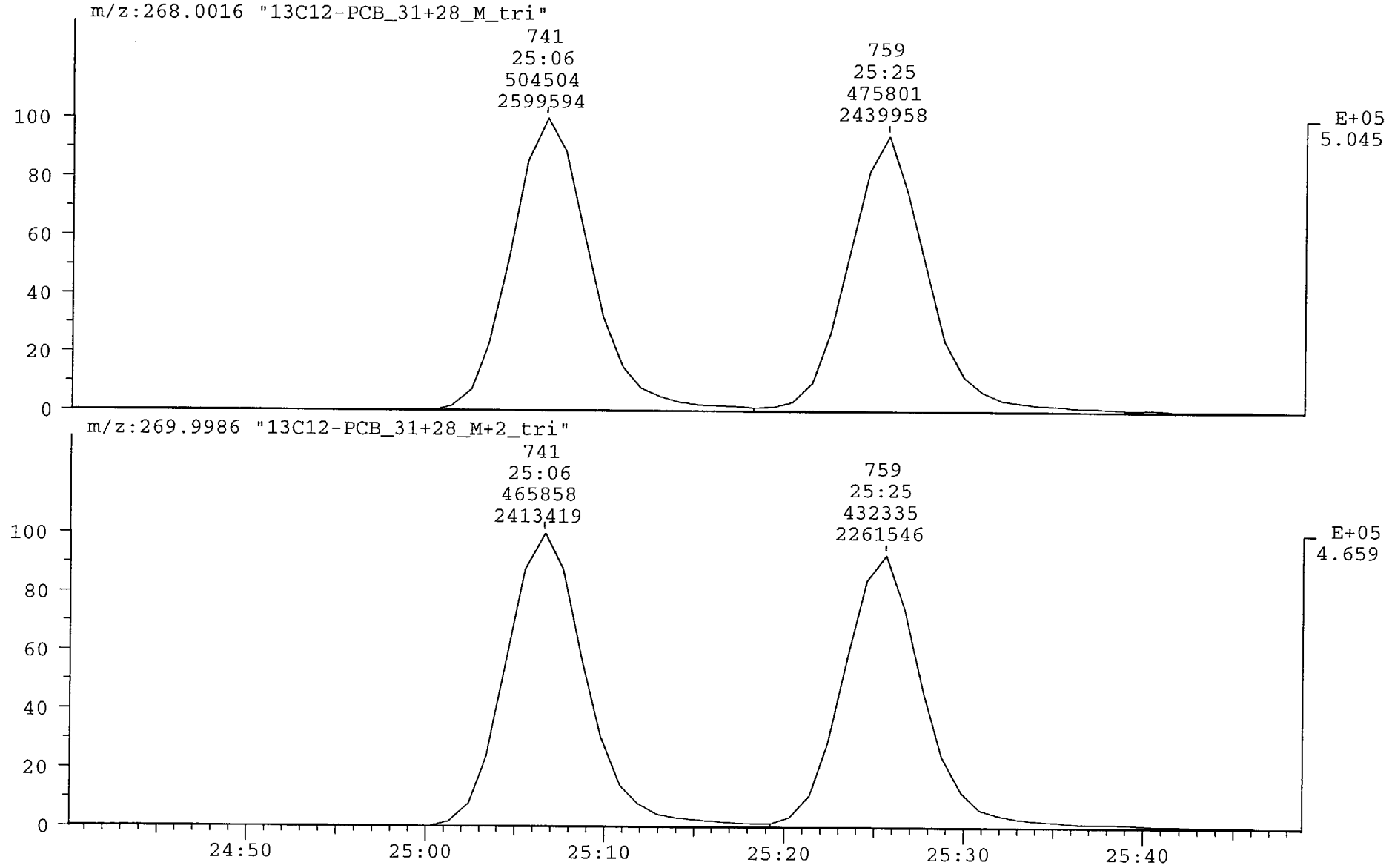
CHRO: aph2w5k1 25-Apr-06 Elapse: 24:30.7 707
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 387 > 1027 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



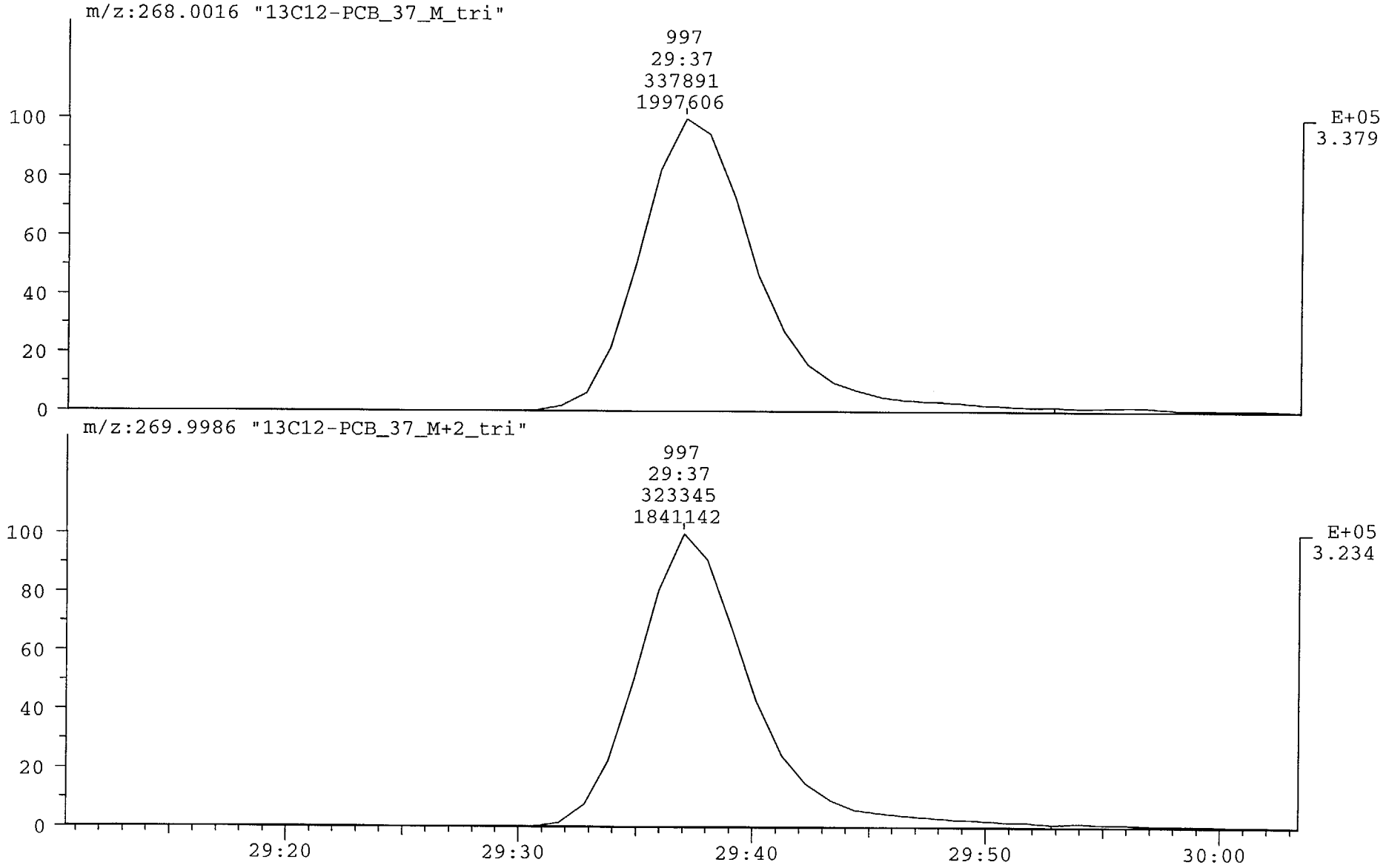
CHRO: aph2w5k1 25-Apr-06 Elapse: 20:44.6 497
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 377 > 637 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



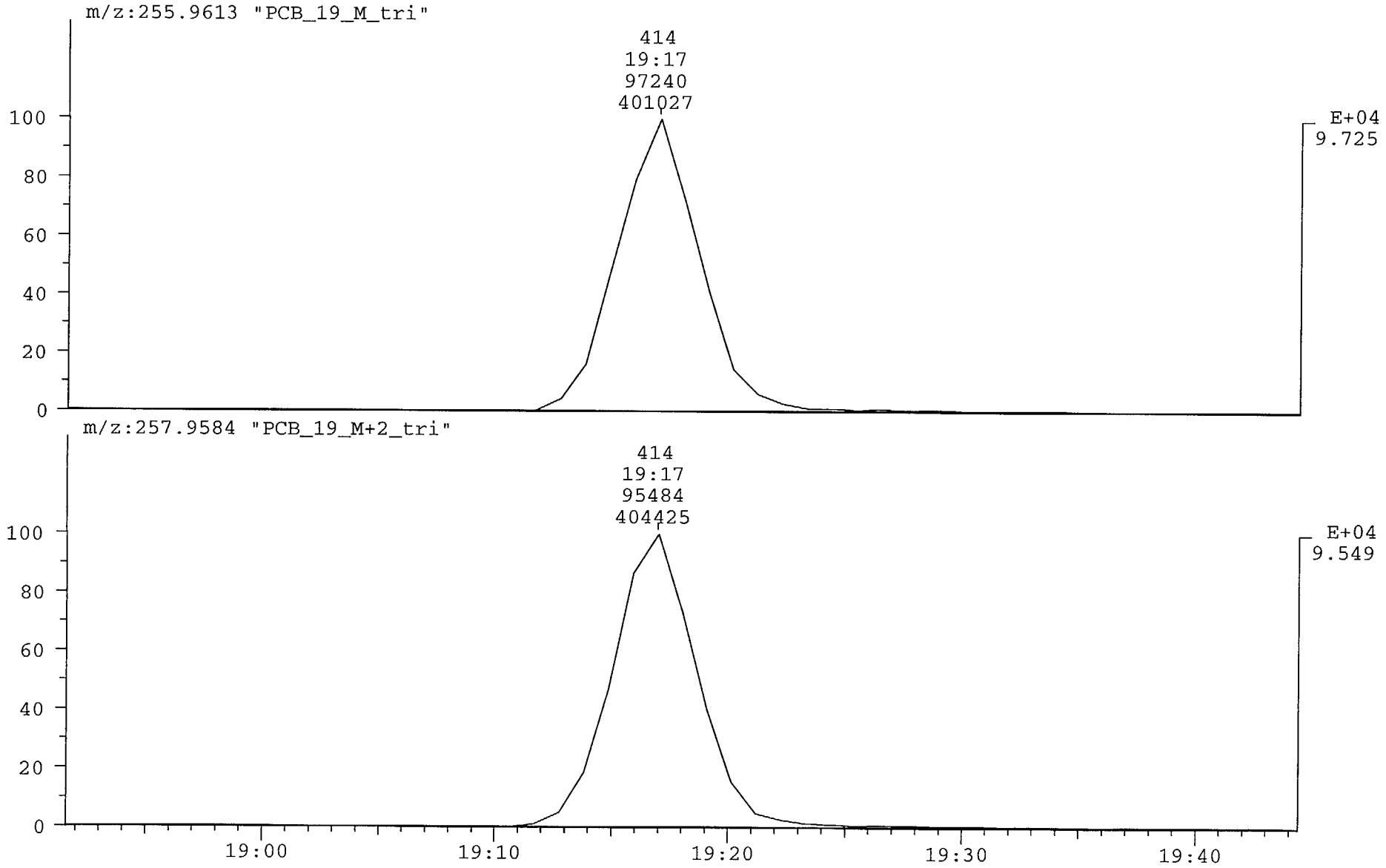
CHRO: aph2w5k1 25-Apr-06 Elapse: 25:06.6 741
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 716 > 781 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



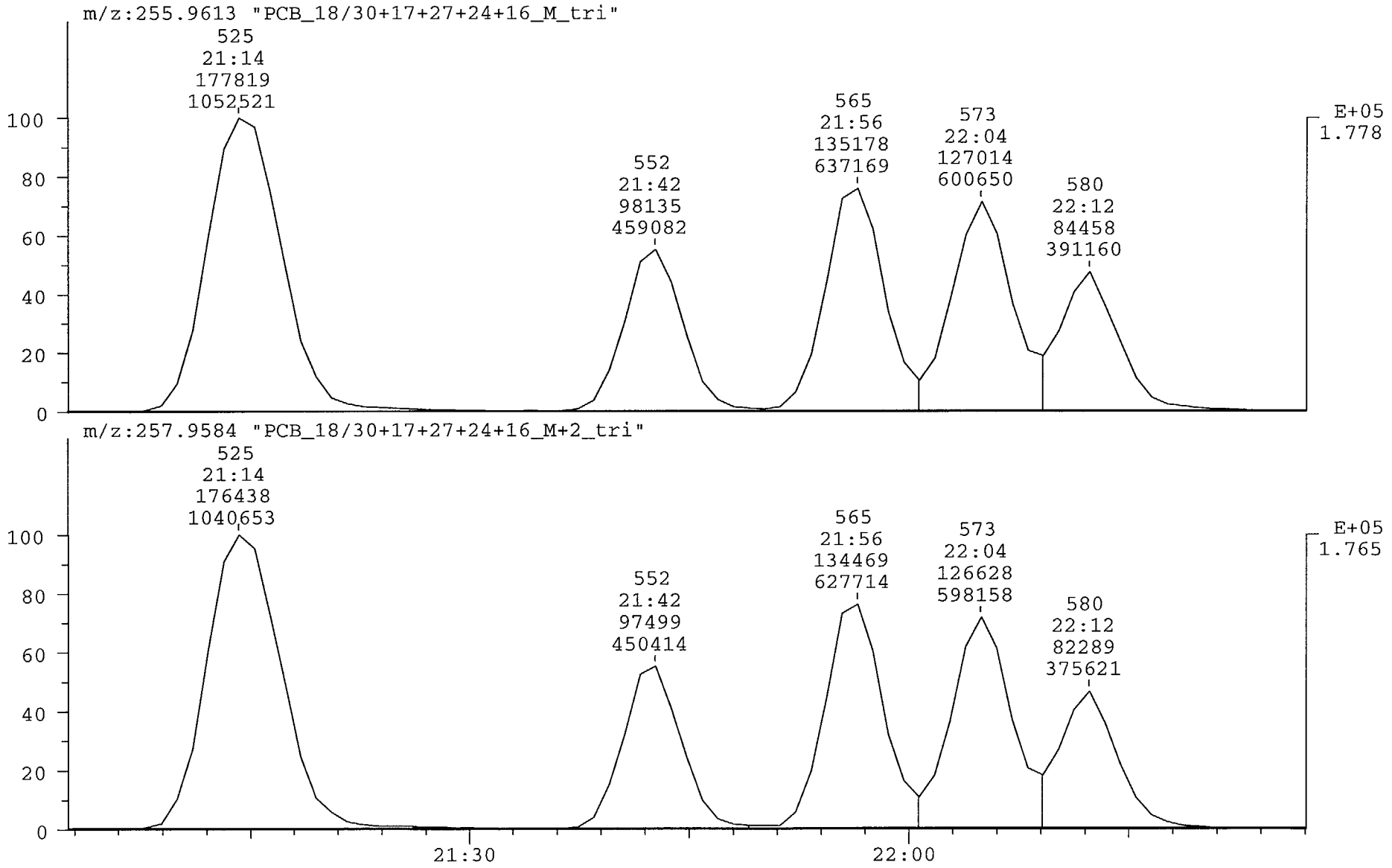
CHRO: aph2w5k1 25-Apr-06 Elapse: 29:37.0 997
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 972 > 1022 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



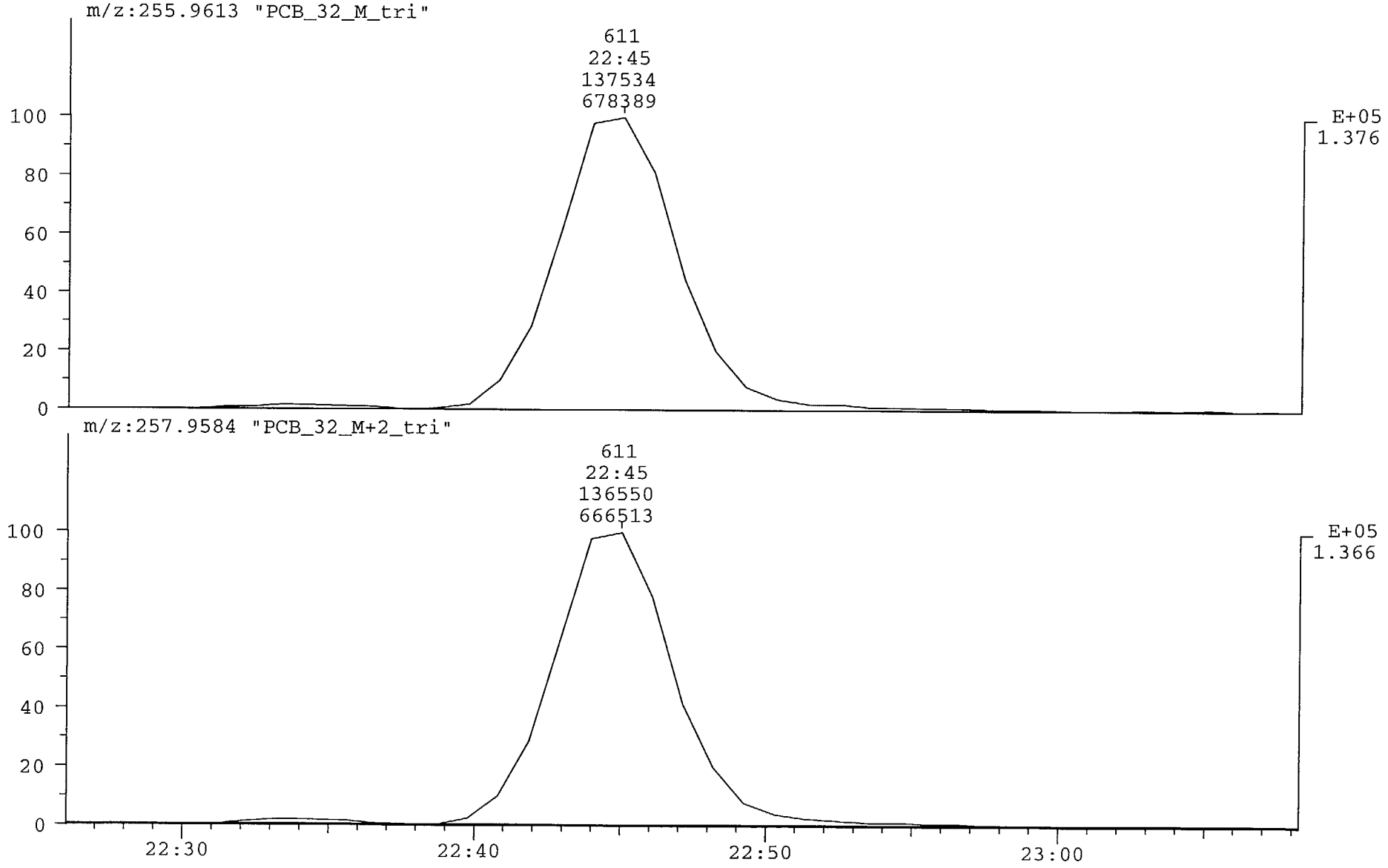
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  19:18.0      415
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17    2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L              Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   390 > 440            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



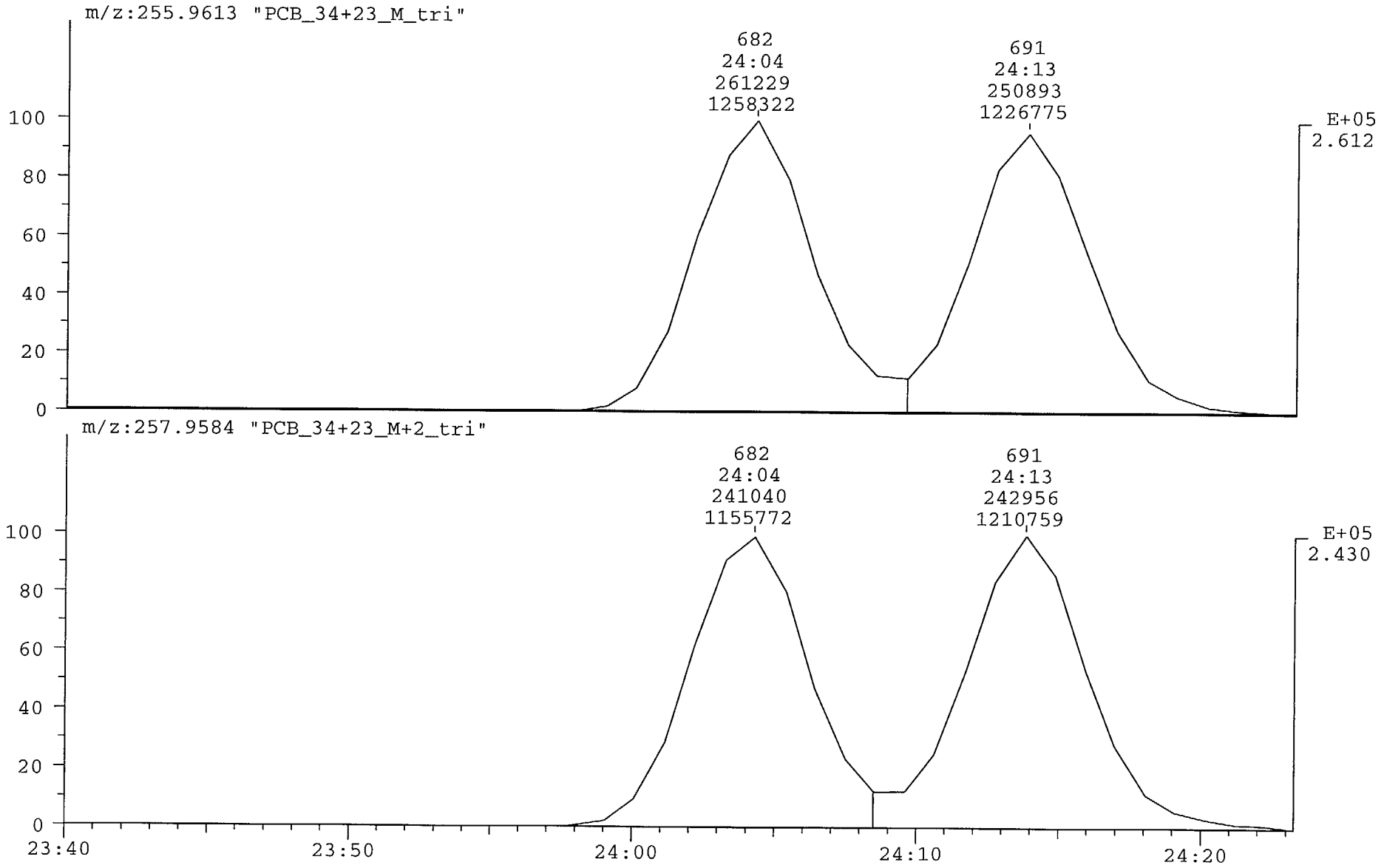
CHRO: aph2w5k1 25-Apr-06 Elapse: 21:44.8 554
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 514 > 594 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



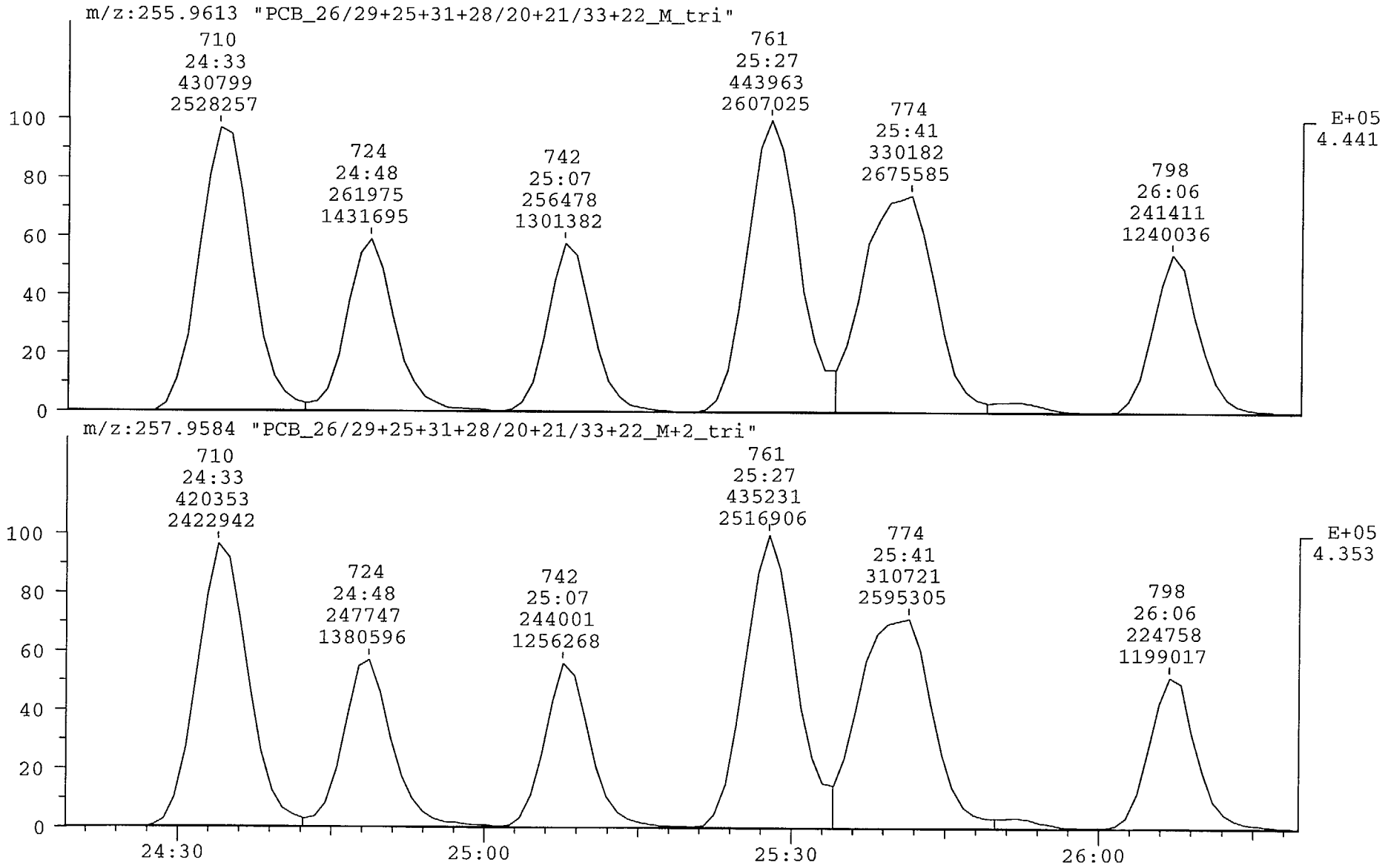
CHRO: aph2w5k1 25-Apr-06 Elapse: 22:47.1 613
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 593 > 633 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



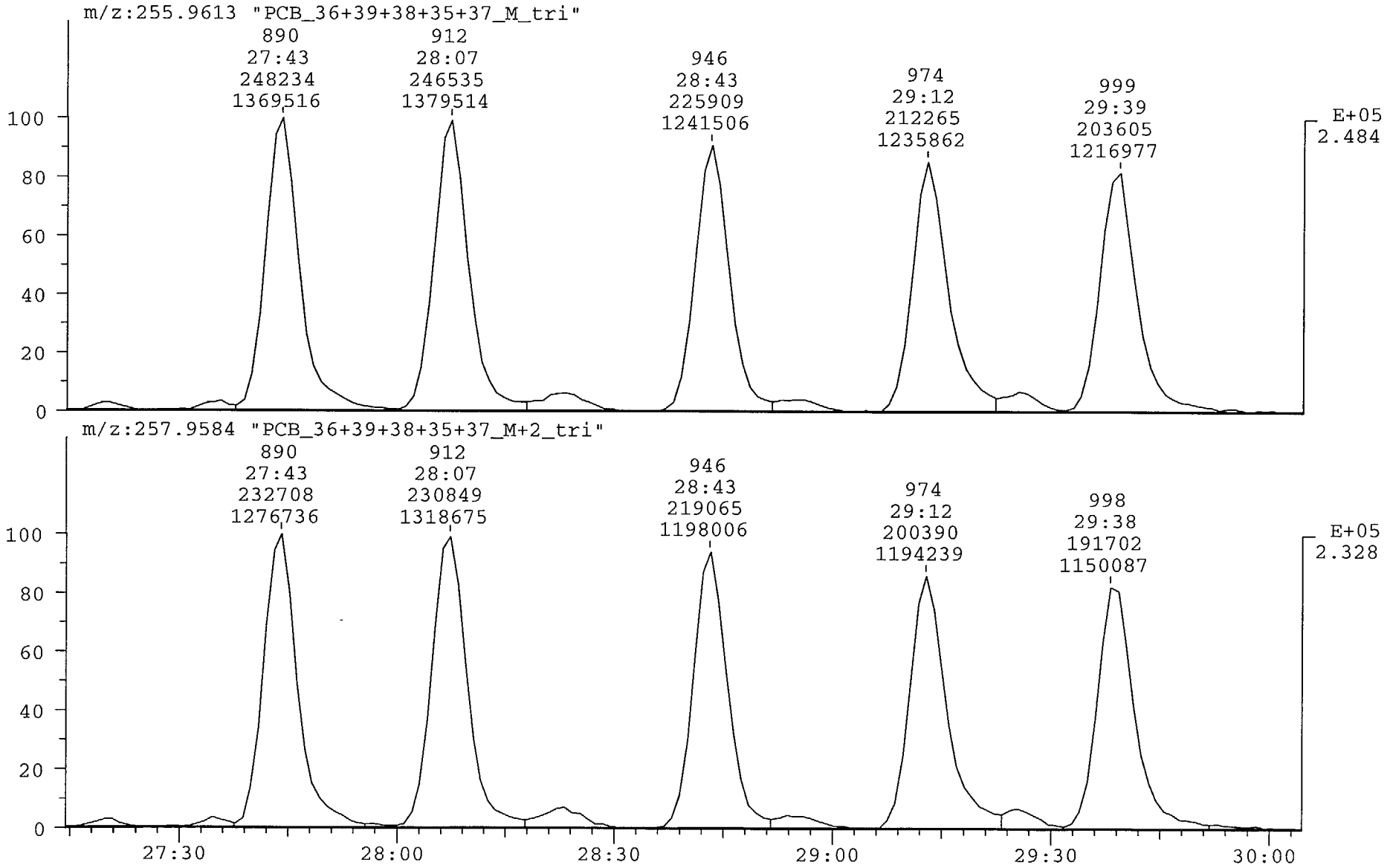
CHRO: aph2w5k1 25-Apr-06 Elapse: 24:06.4 684
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 659 > 700 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



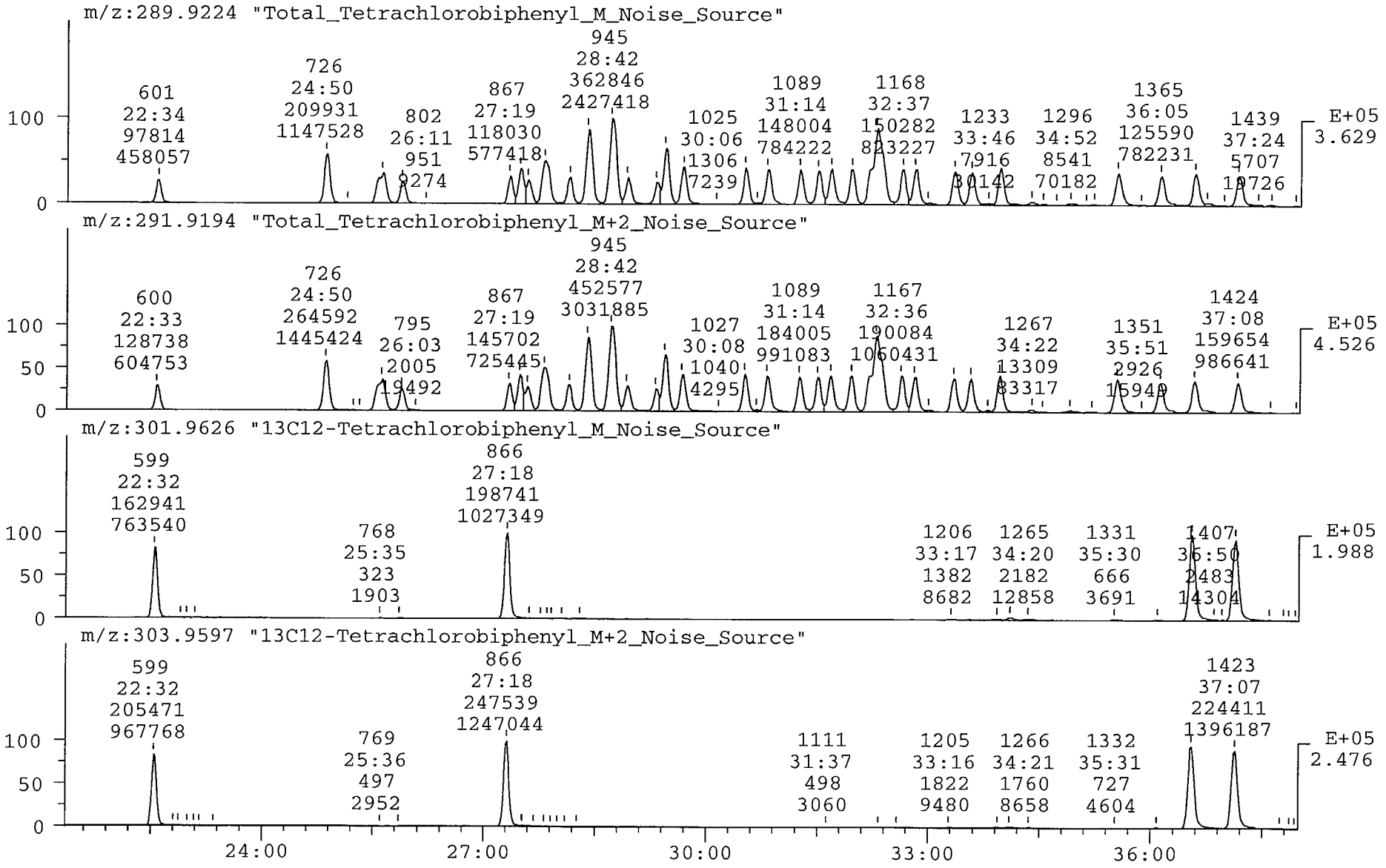
CHRO: aph2w5kl 25-Apr-06 Elapse: 25:31.9 765
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 696 > 810 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



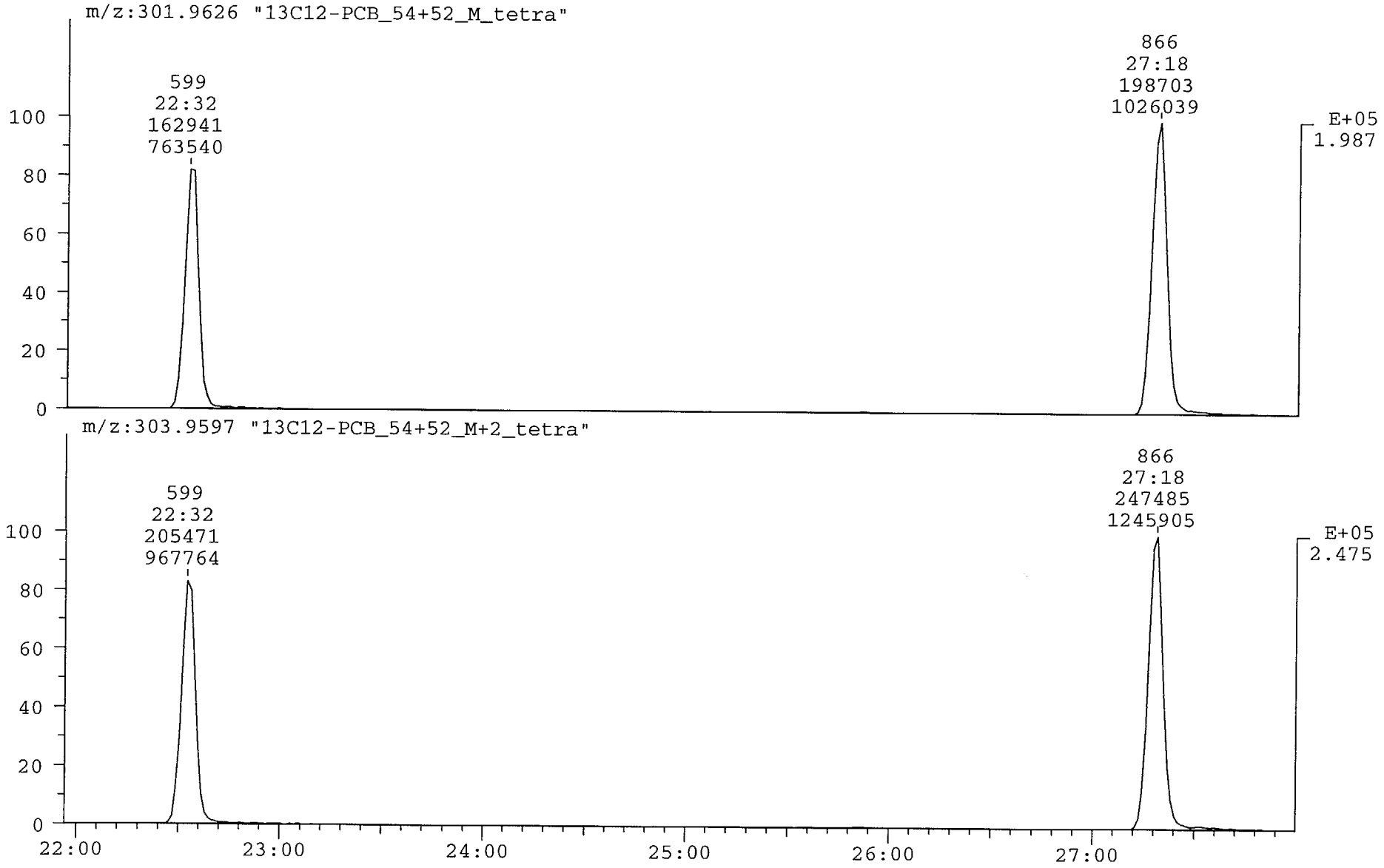
CHRO: aph2w5k1 25-Apr-06 Elapse: 28:44.2 947
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 862 > 1023 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



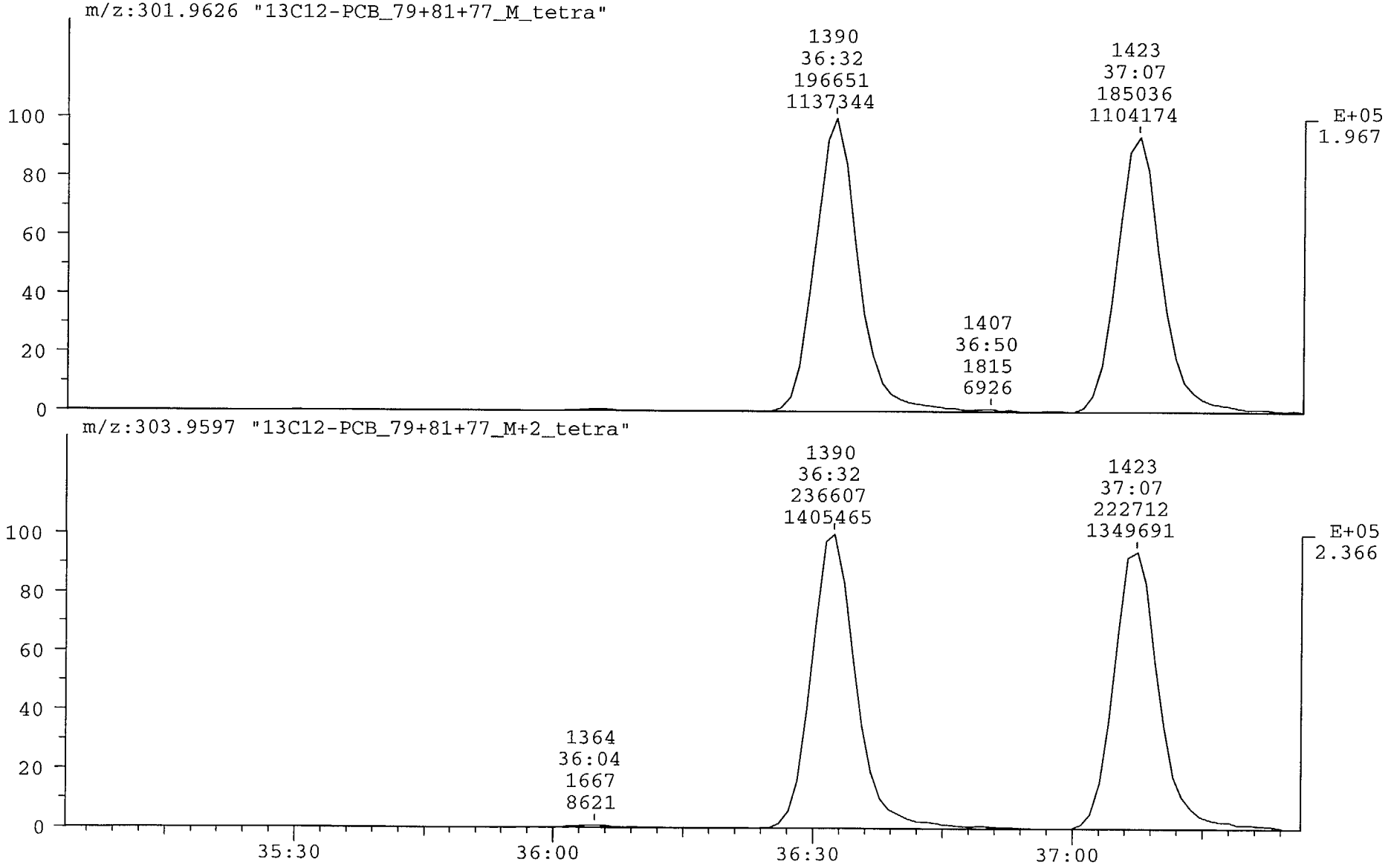
CHRO: aph2w5k1 25-Apr-06 Elapse: 29:40 1000
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 531 > 1472 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



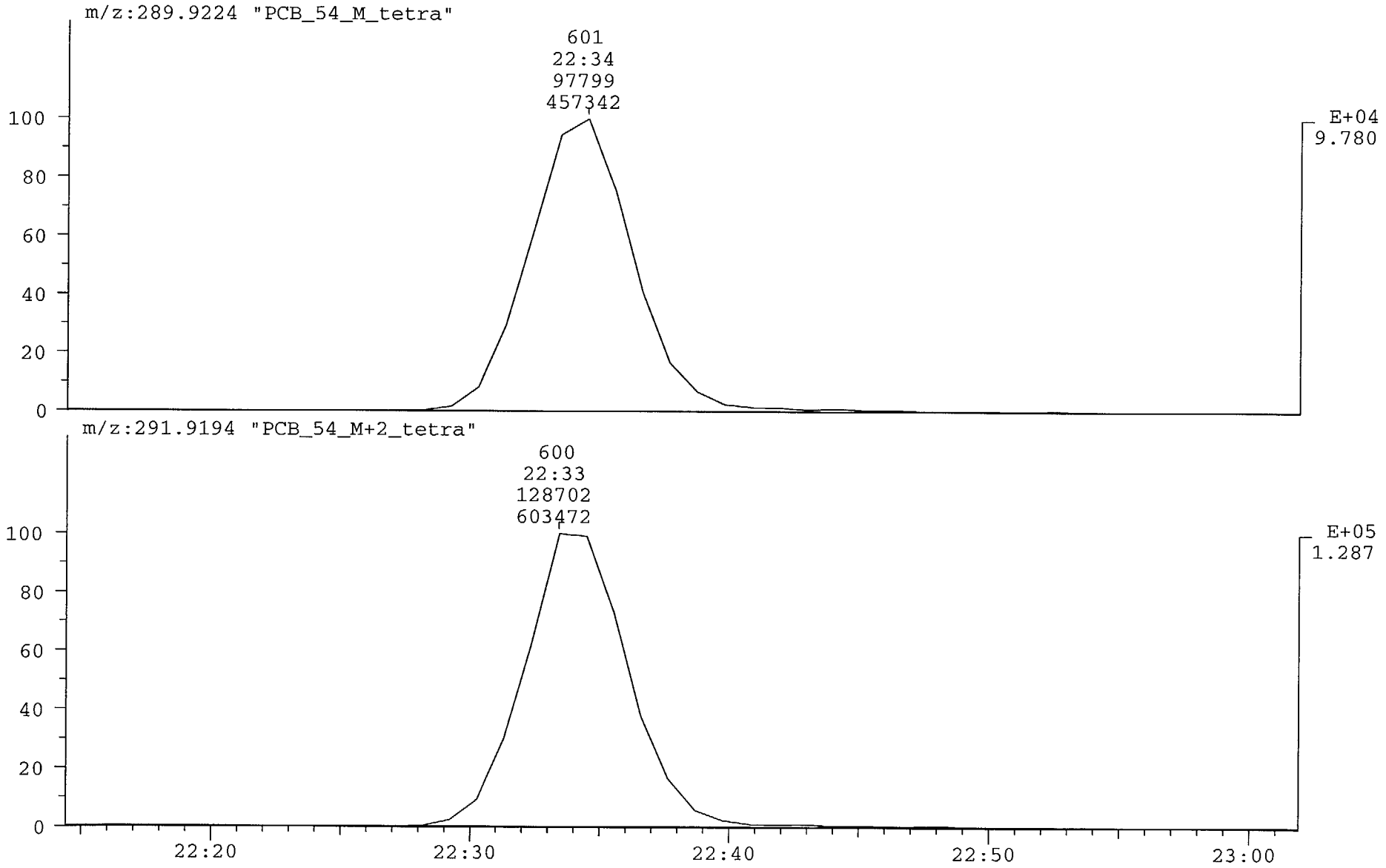
CHRO: aph2w5k1 25-Apr-06 Elapse: 25:00.2 735
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 565 > 905 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



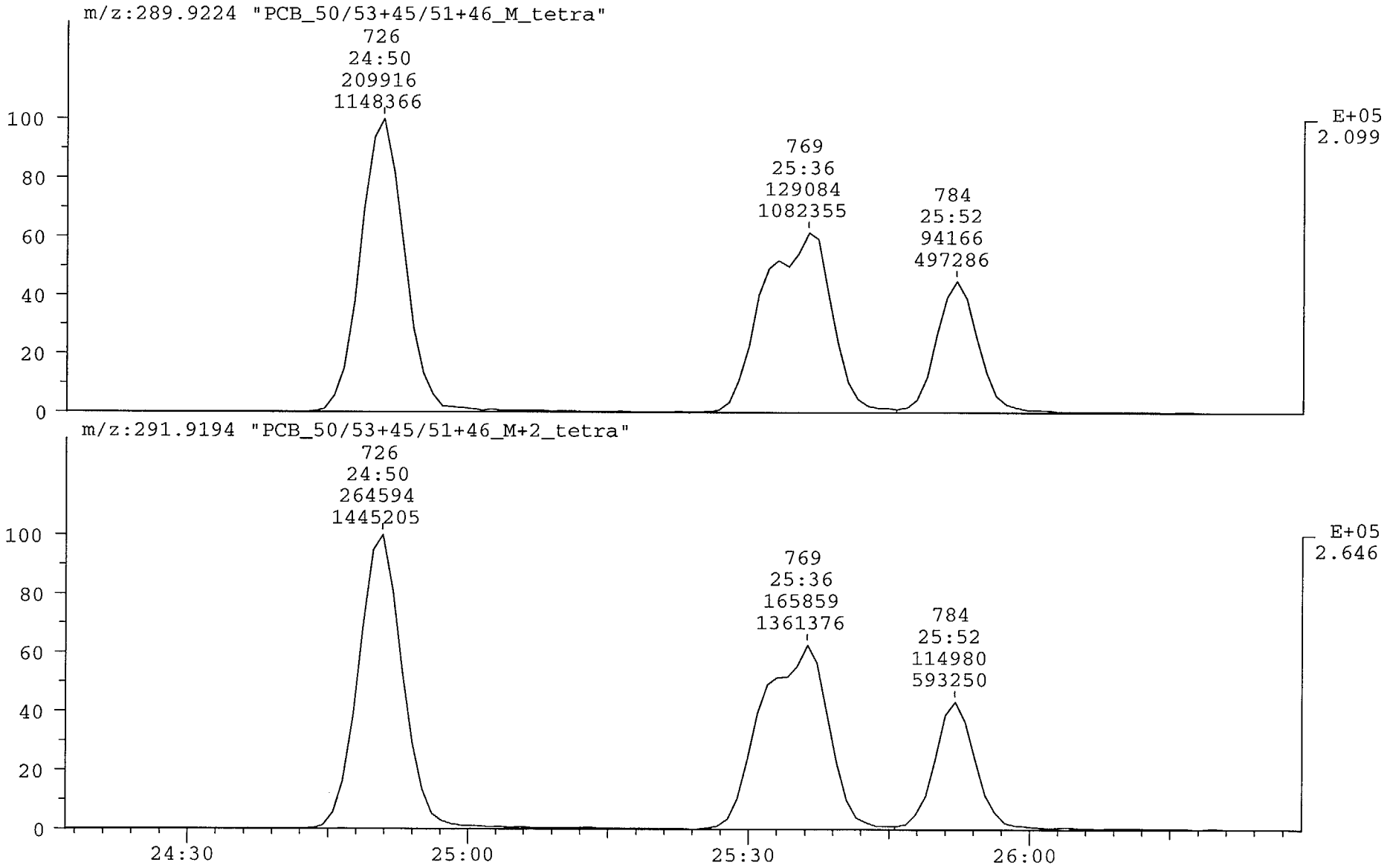
CHRO: aph2w5k1 25-Apr-06 Elapse: 36:17 1376
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1306 > 1441 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



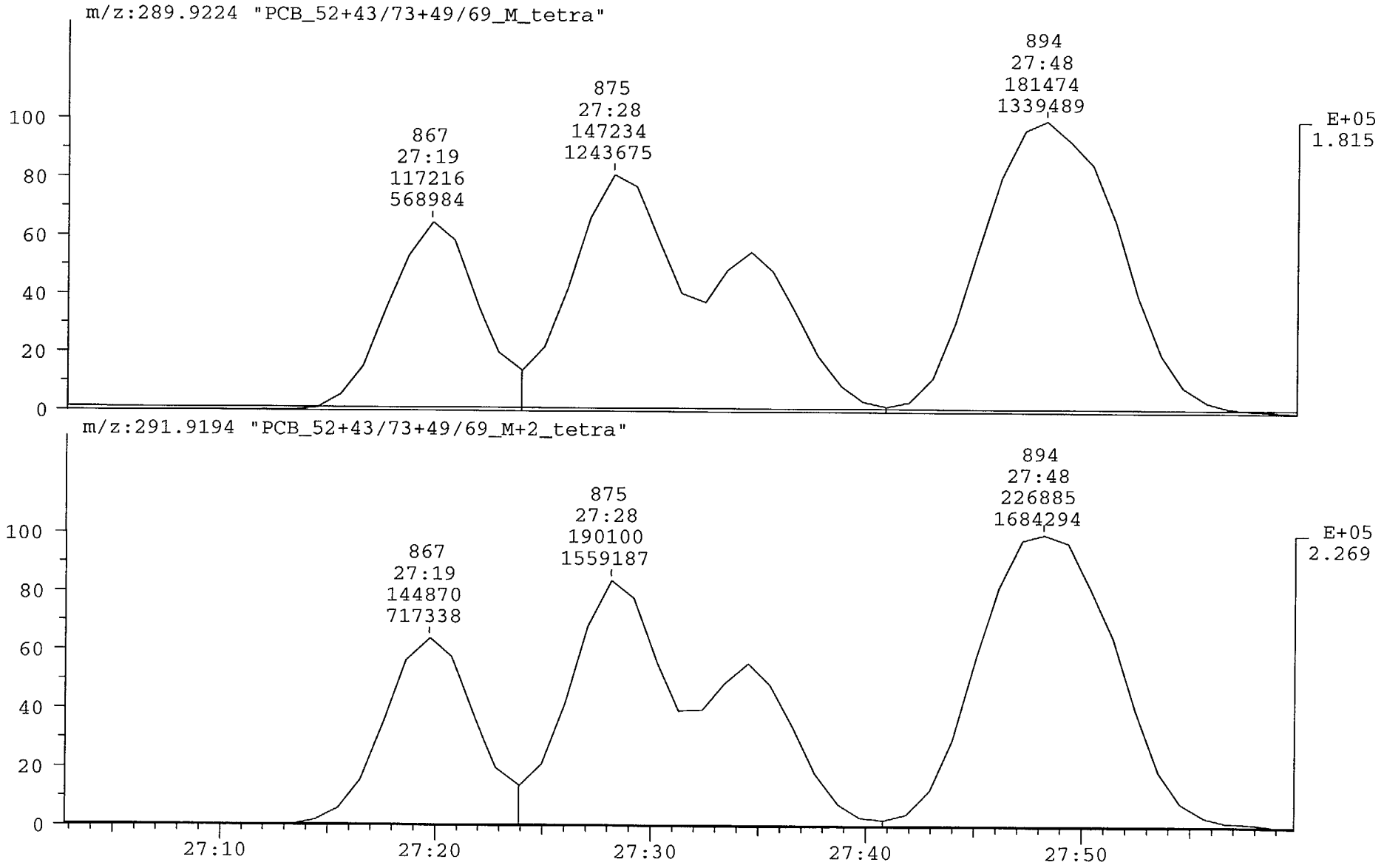
CHRO: aph2w5kl 25-Apr-06 Elapse: 22:35.5 602
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 582 > 627 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



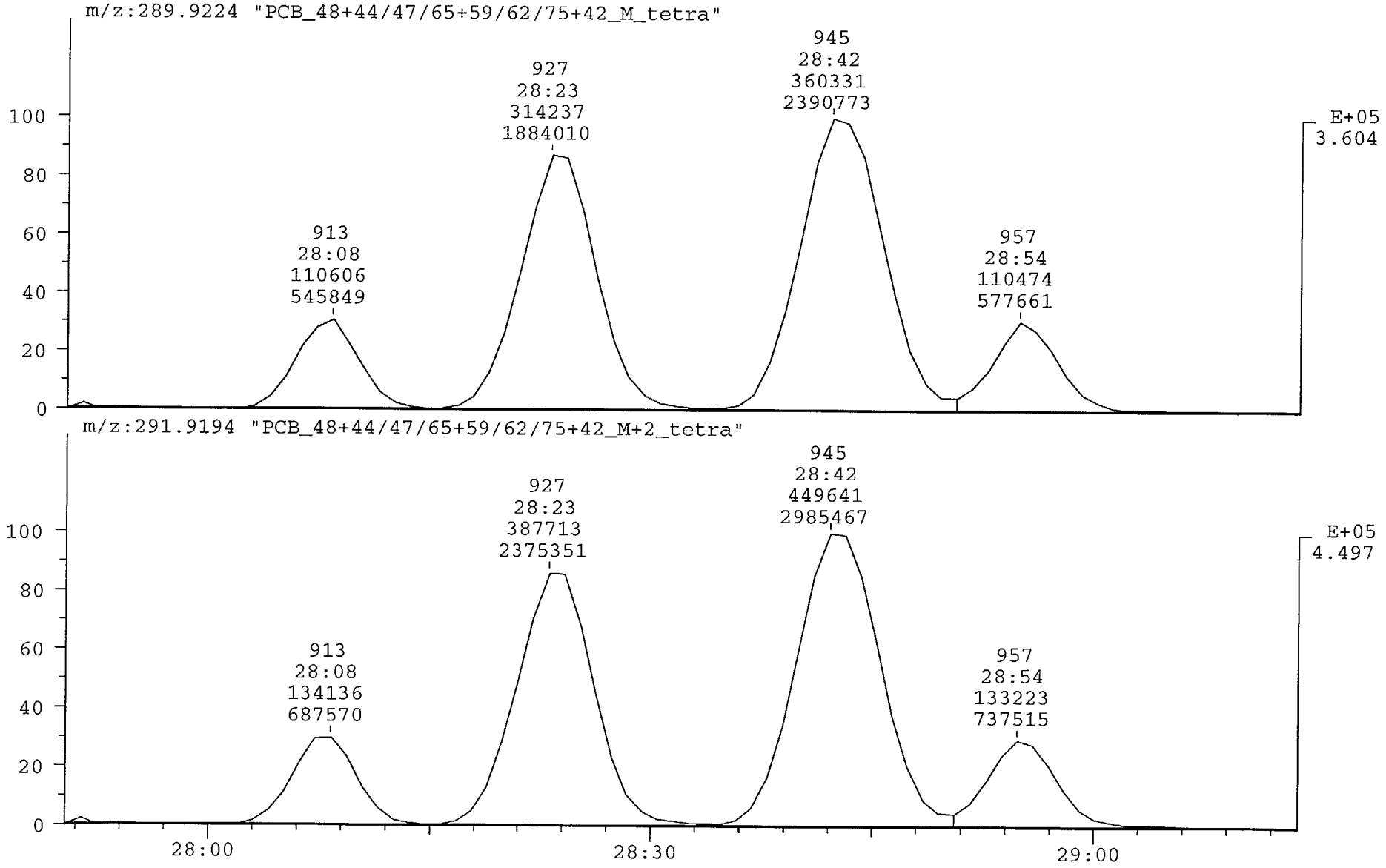
CHRO: aph2w5k1 25-Apr-06 Elapse: 25:25.6 759
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 694 > 819 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



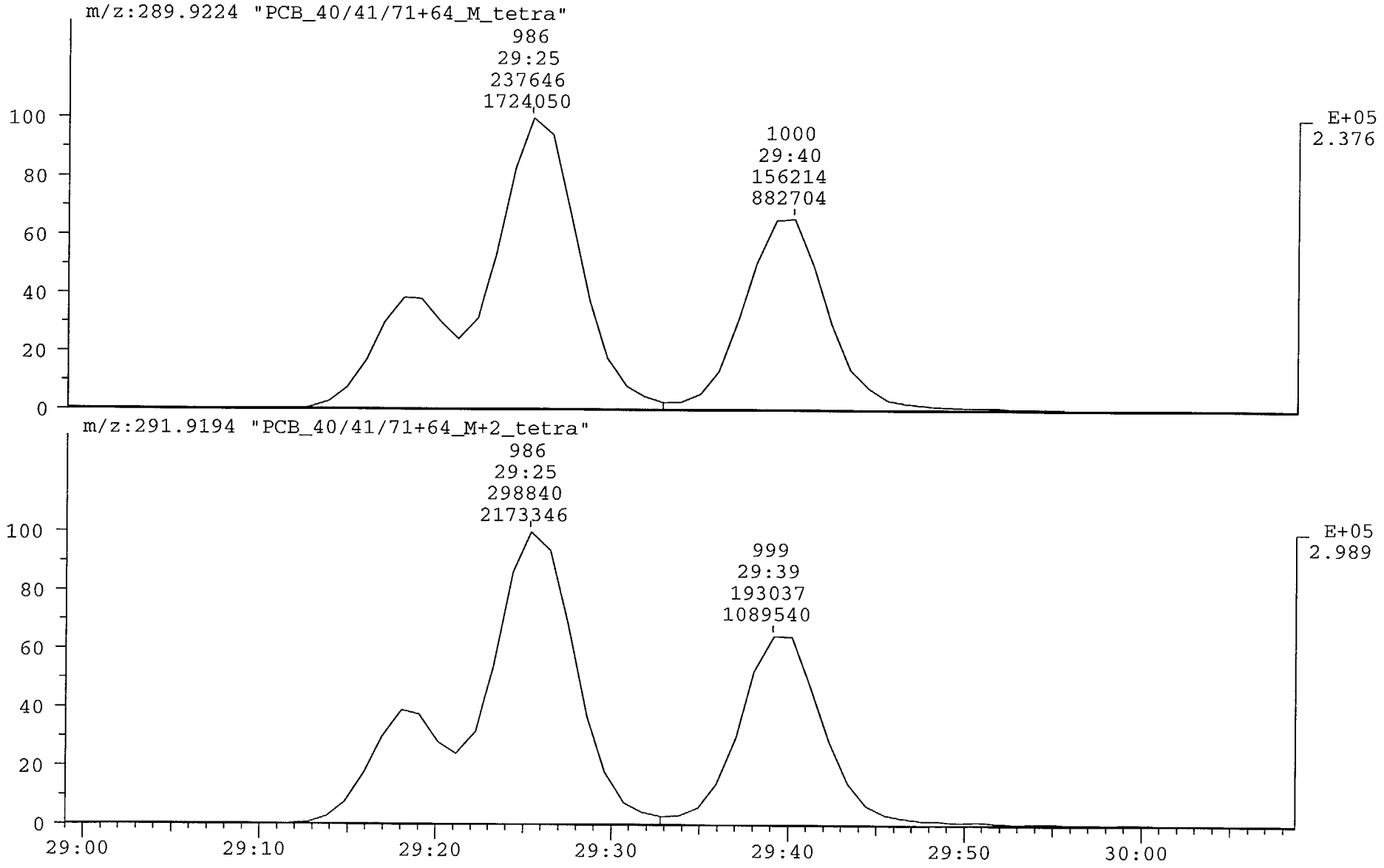
```
CHRO:  aph2w5k1                                  25-Apr-06   Elapse:  27:37.6      884
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                    Start :  12:58:17    2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L                 Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   851 > 905               Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5                  Label :  -3, 3.0
Disp:  Height  Area
```



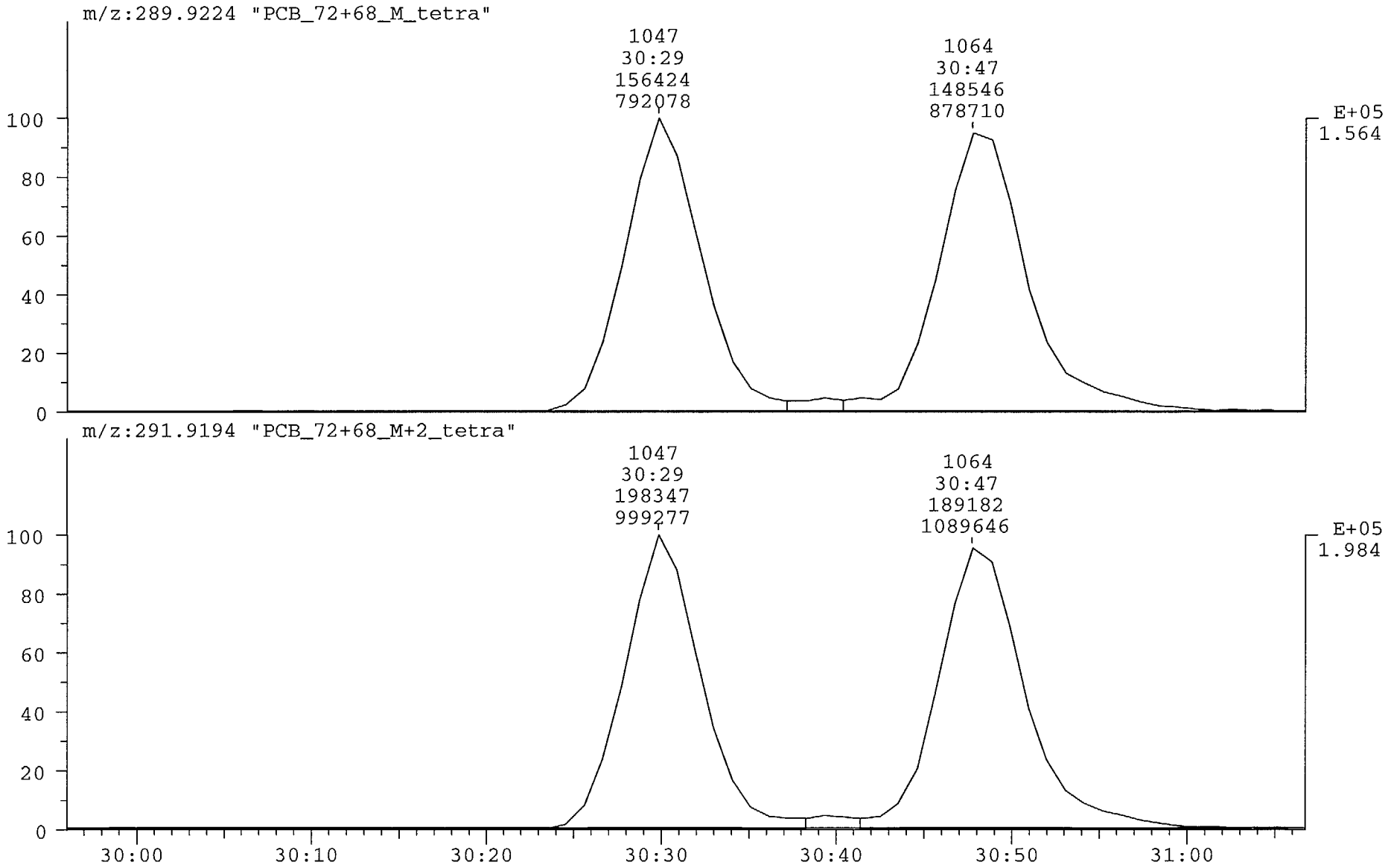
CHRO: aph2w5k1 25-Apr-06 Elapse: 28:35.7 939
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 896 > 975 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



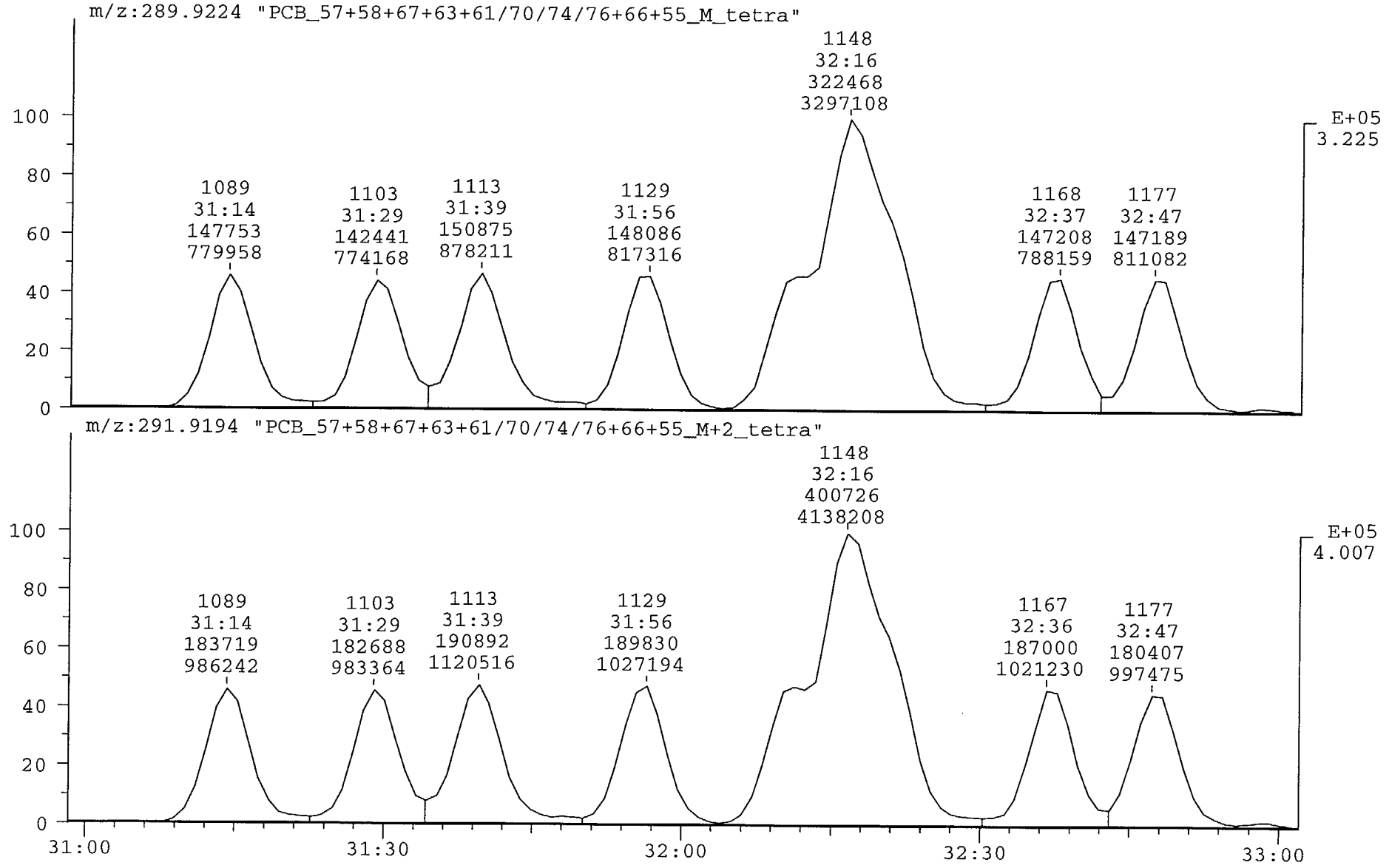
```
CHRO:  aph2w5k1                                  25-Apr-06   Elapse:  29:37.0      997
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                    Start :  12:58:17    2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L                 Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   961 > 1027              Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 7                  Label :  -3, 3.0
Disp:  Height  Area
```



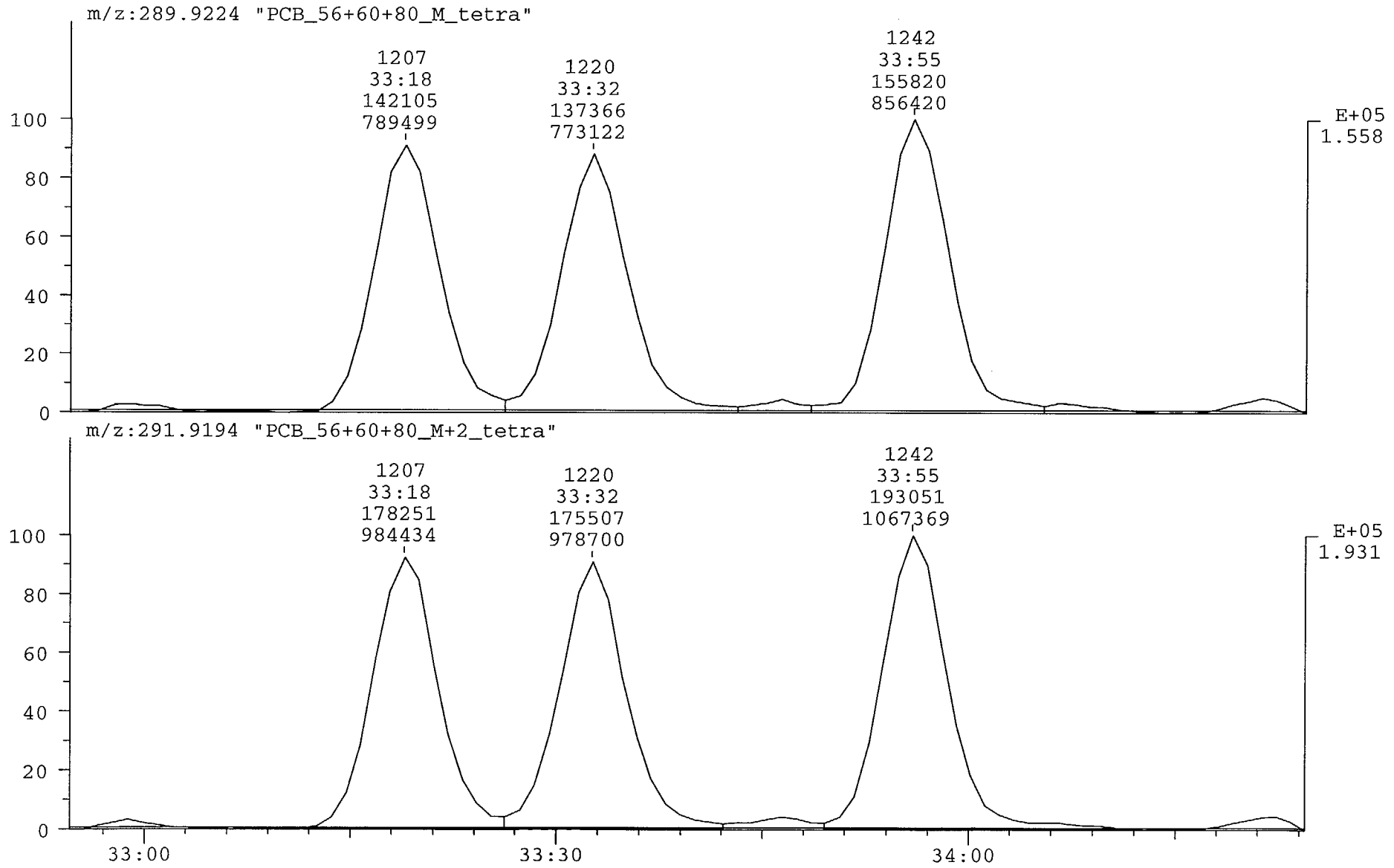
```
CHRO:  aph2w5k1                              25-Apr-06   Elapse:  30:43      1060
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L             Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1015 > 1082        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



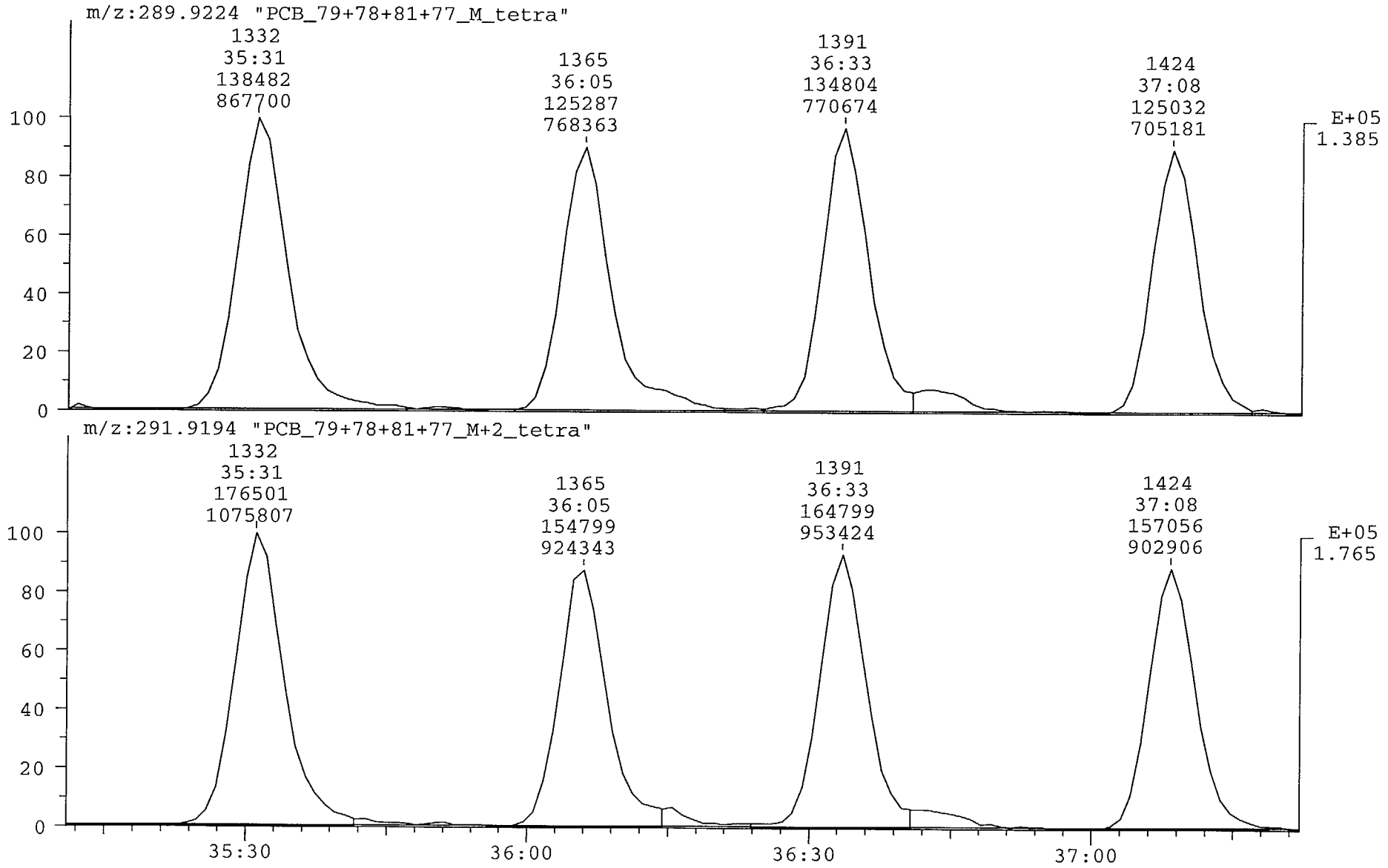
CHRO: aph2w5k1 25-Apr-06 Elapse: 32:03 1136
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1074 > 1191 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



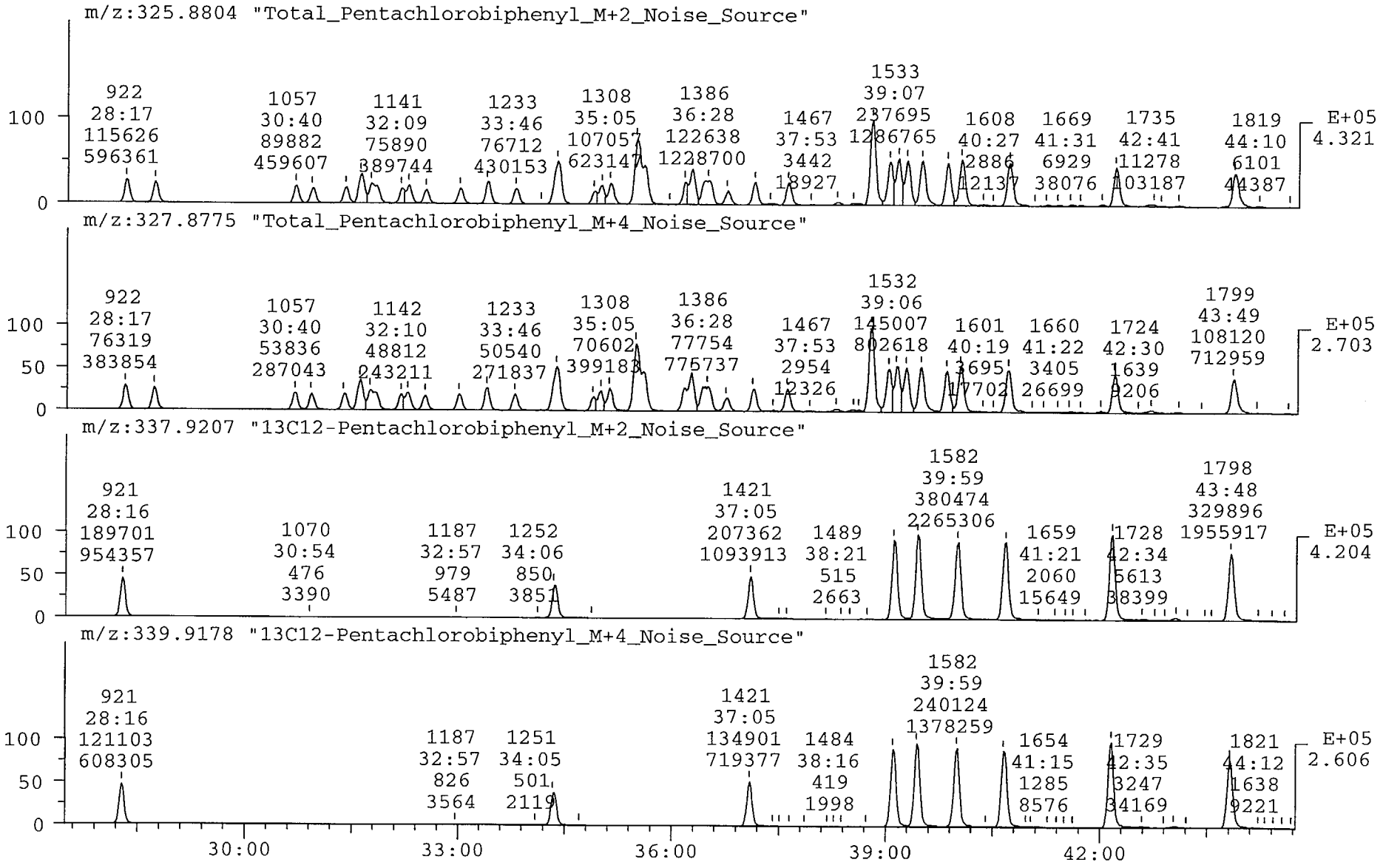
CHRO: aph2w5k1 25-Apr-06 Elapse: 33:40 1227
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1184 > 1269 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



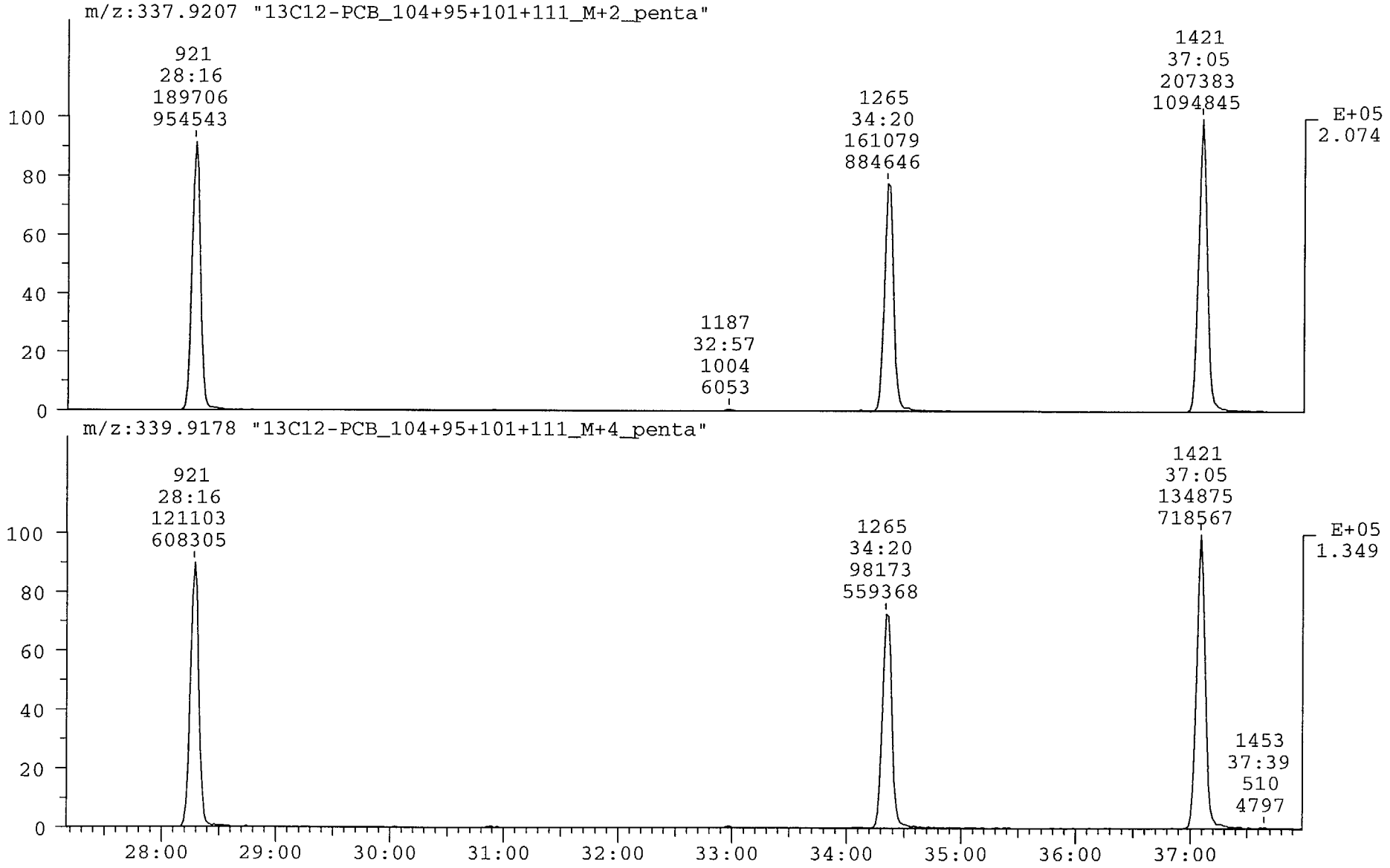
CHRO: aph2w5k1 25-Apr-06 Elapse: 36:18 1377
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1313 > 1437 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



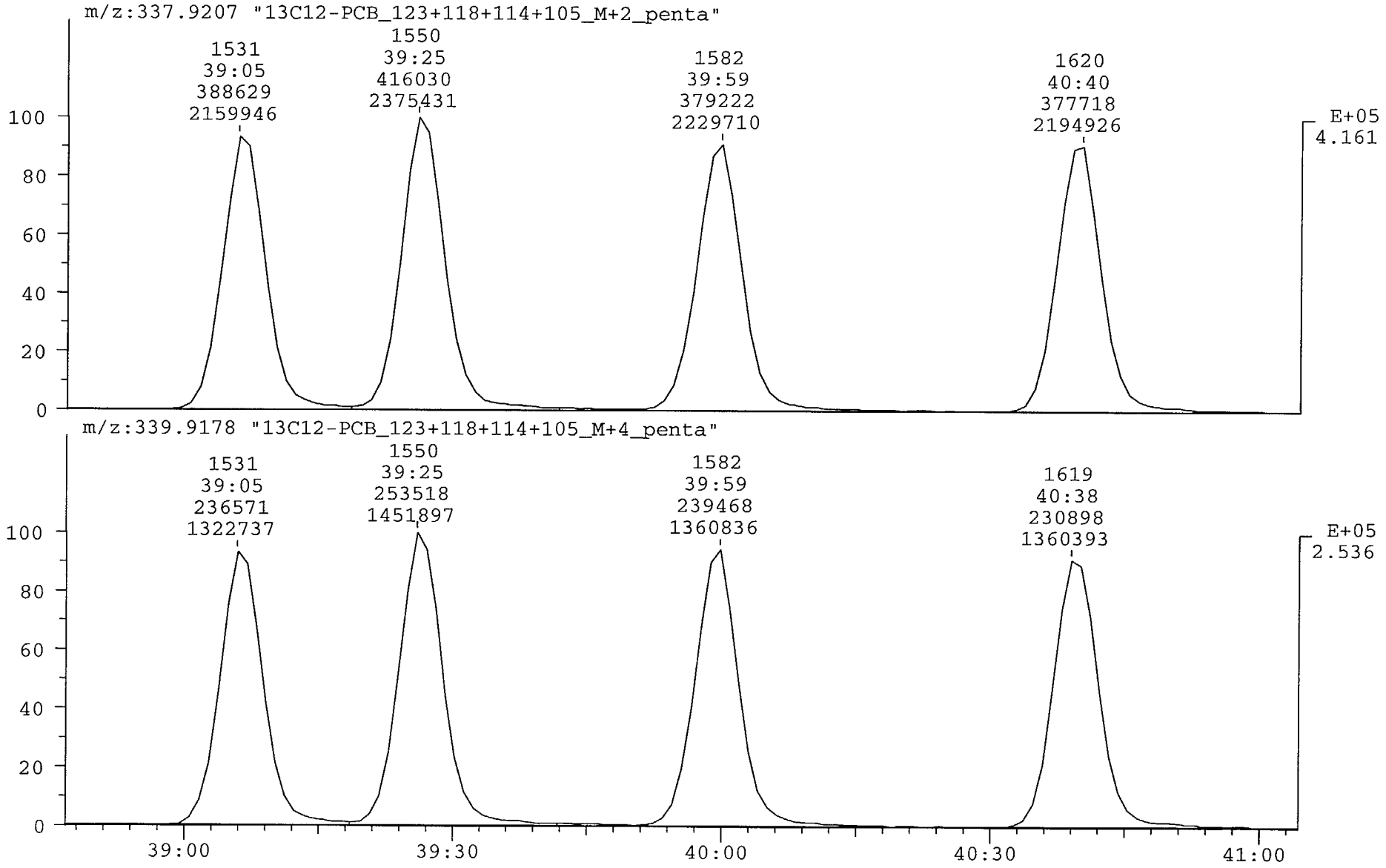
CHRO: aph2w5k1 25-Apr-06 Elapse: 36:05 1365
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 876 > 1850 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



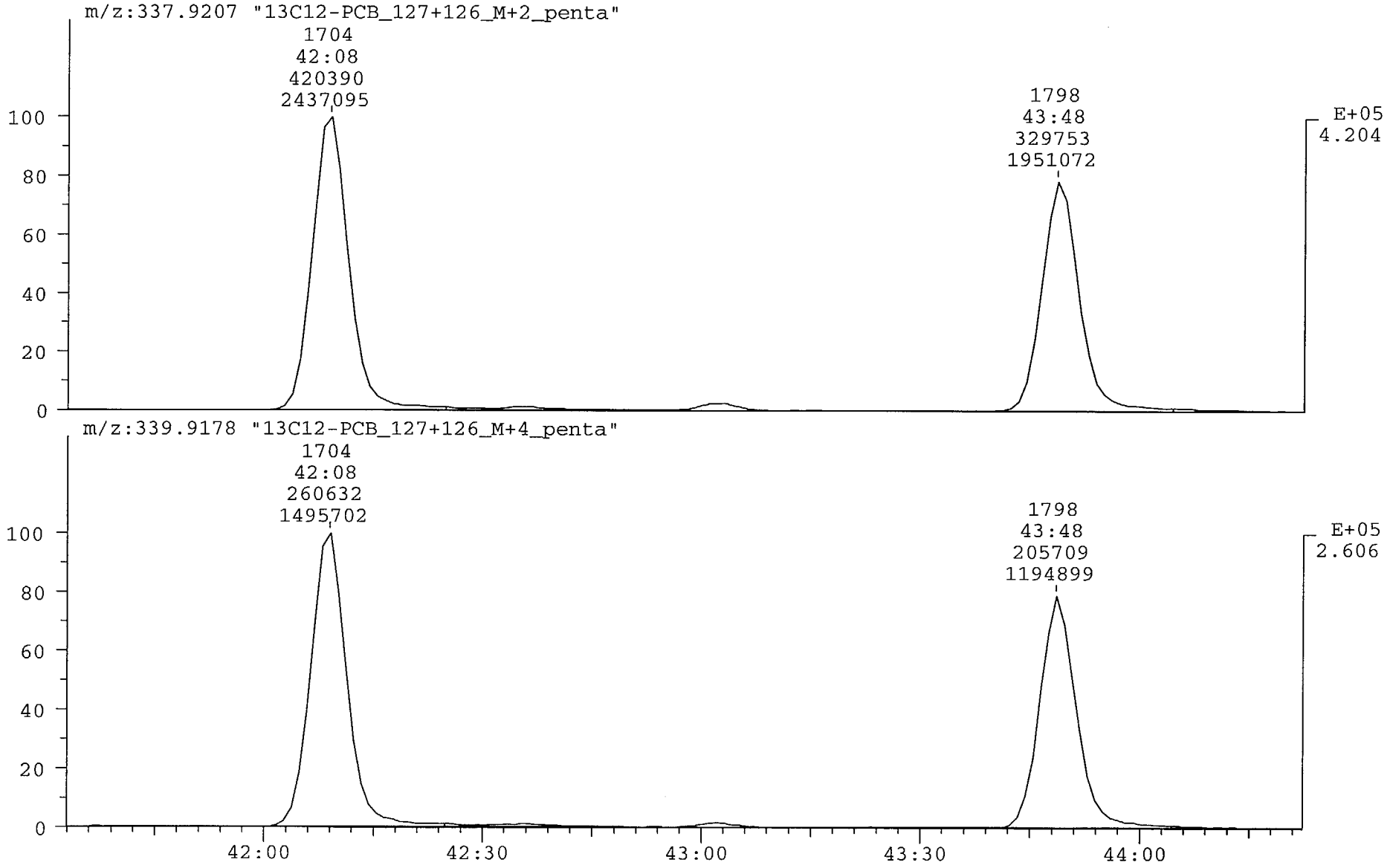
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:   32:34      1165
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :   12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :   6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L              Inlet :   GC     Vial 57
Peak:  100.00  ppm     Label wndw:   858 > 1472           Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   -3, 3.0
Disp:  Height  Area
```



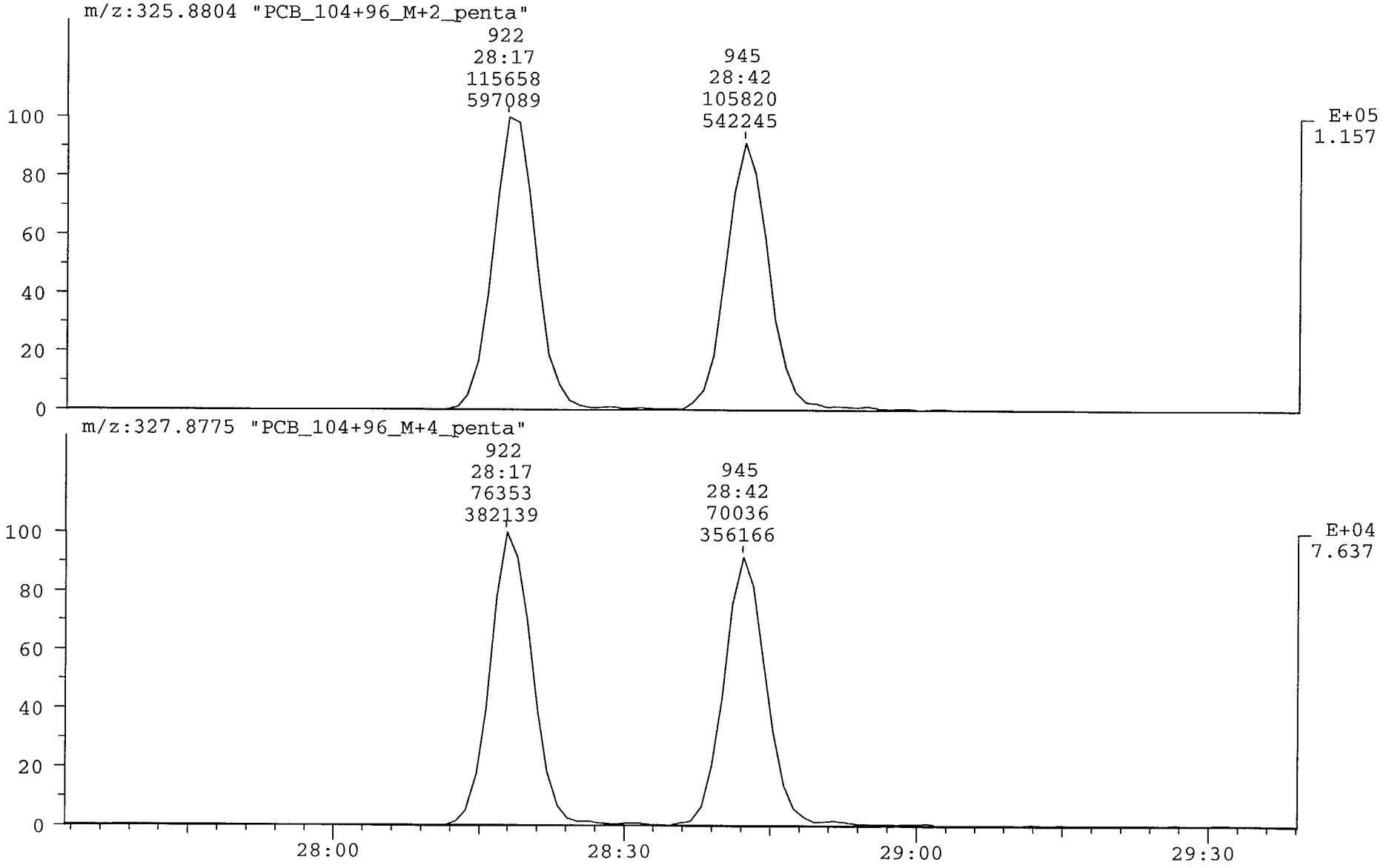
CHRO: aph2w5k1 25-Apr-06 Elapse: 39:55 1578
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1513 > 1643 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



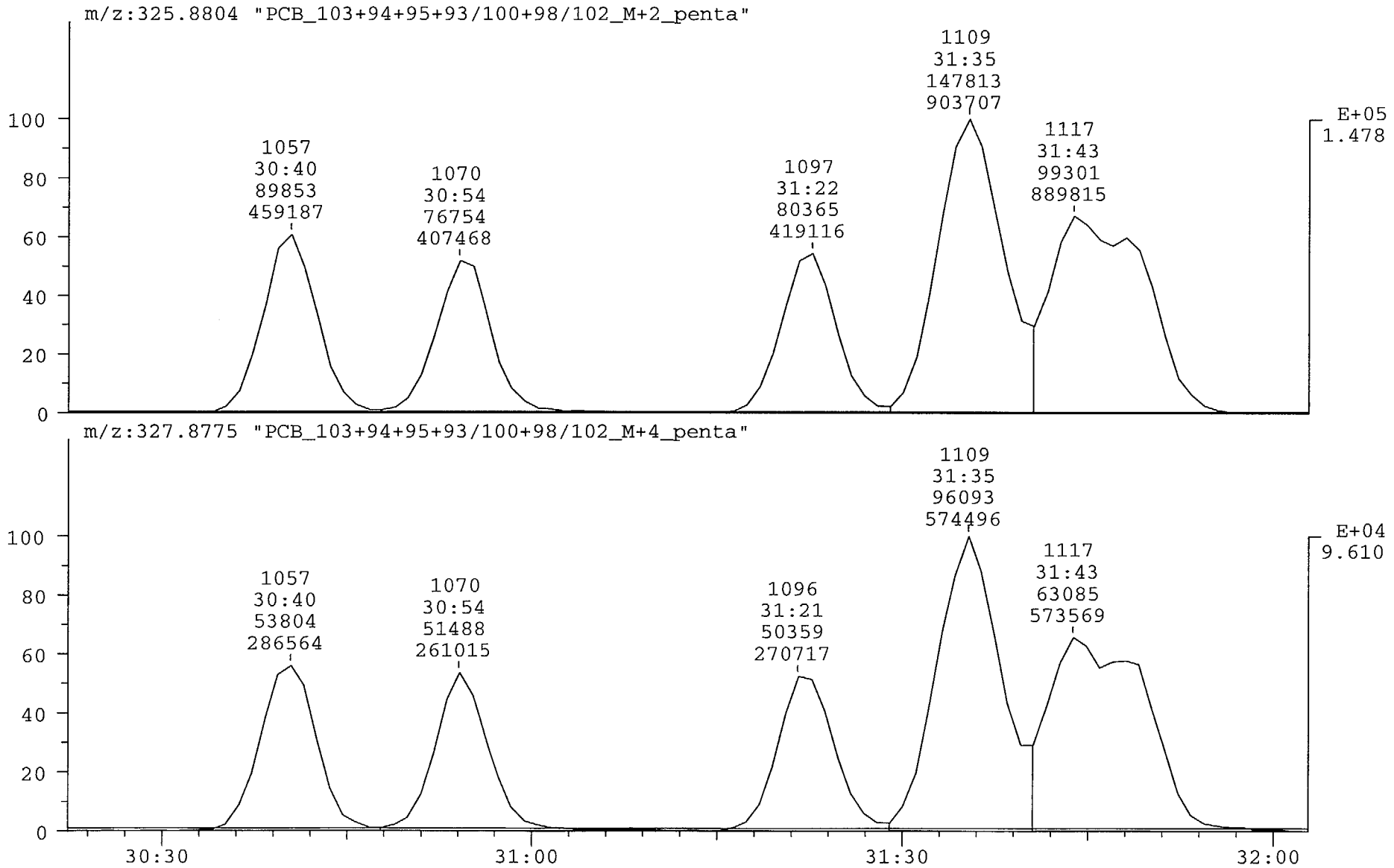
```
CHRO:  aph2w5k1                              25-Apr-06   Elapse:  42:57      1750
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L             Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1670 > 1830        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3            Label :  -3, 3.0
Disp:  Height  Area
```



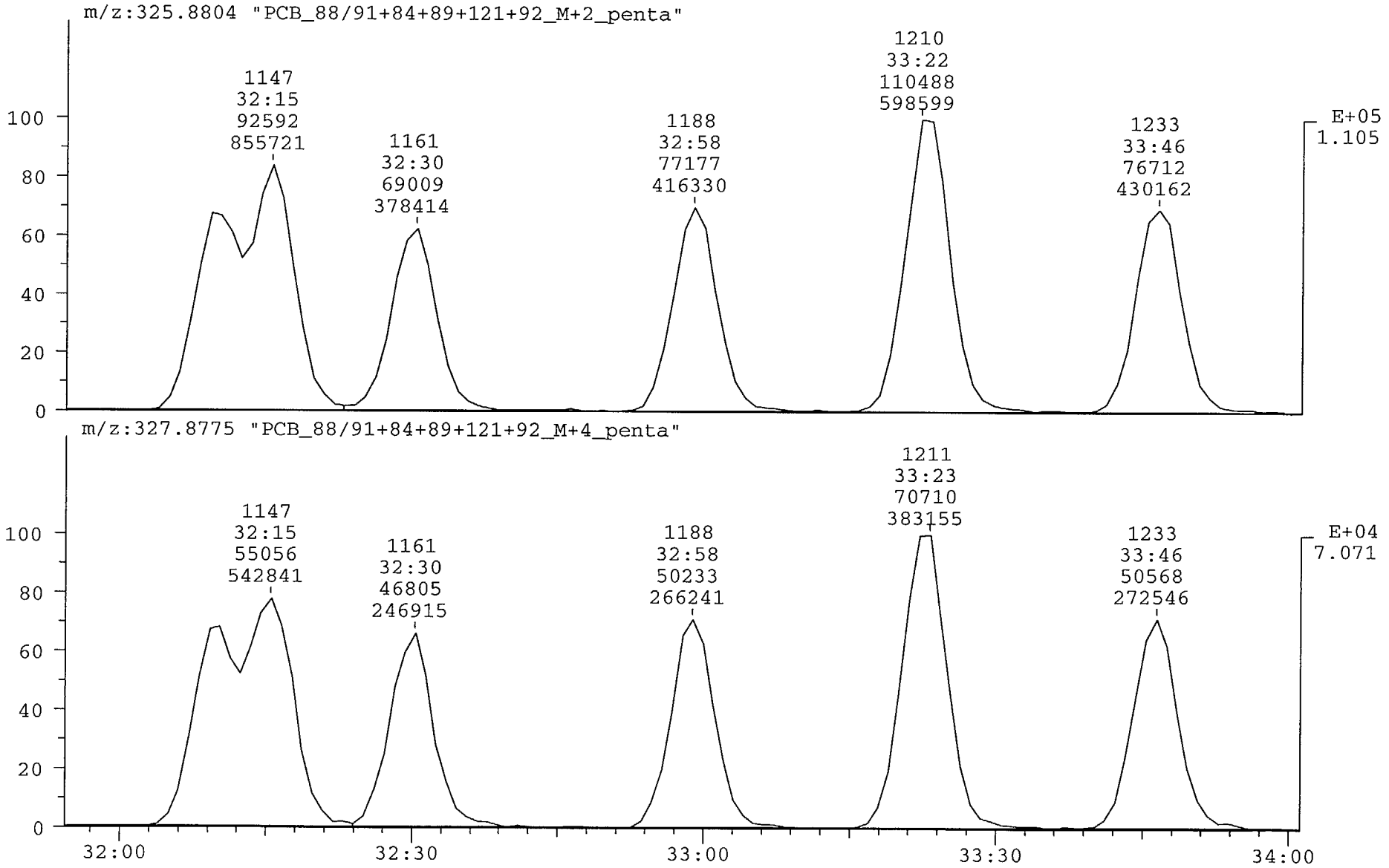
CHRO: aph2w5k1 25-Apr-06 Elapse: 28:35.7 939
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 879 > 999 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



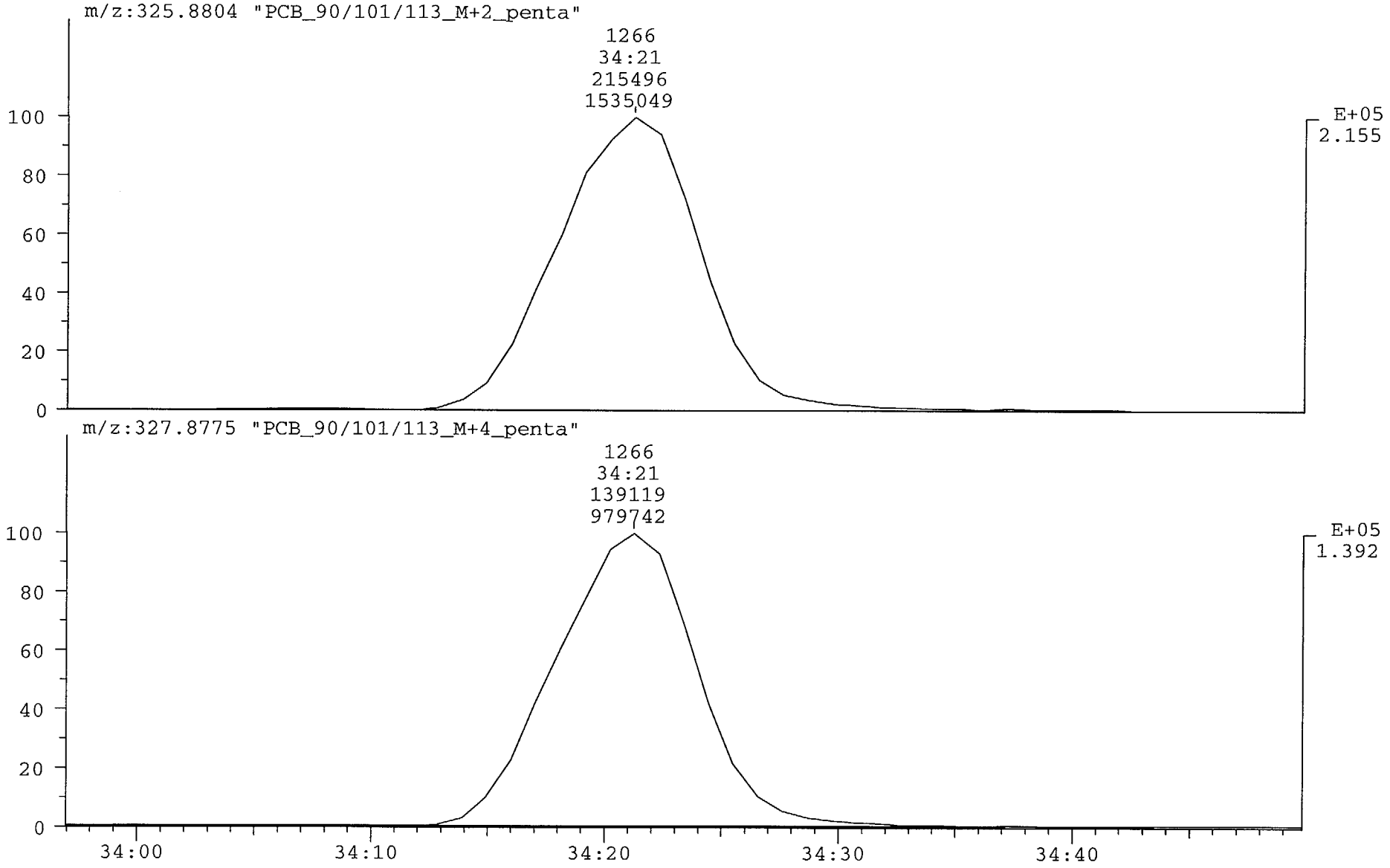
CHRO: aph2w5k1 25-Apr-06 Elapse: 31:17 1092
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1040 > 1135 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



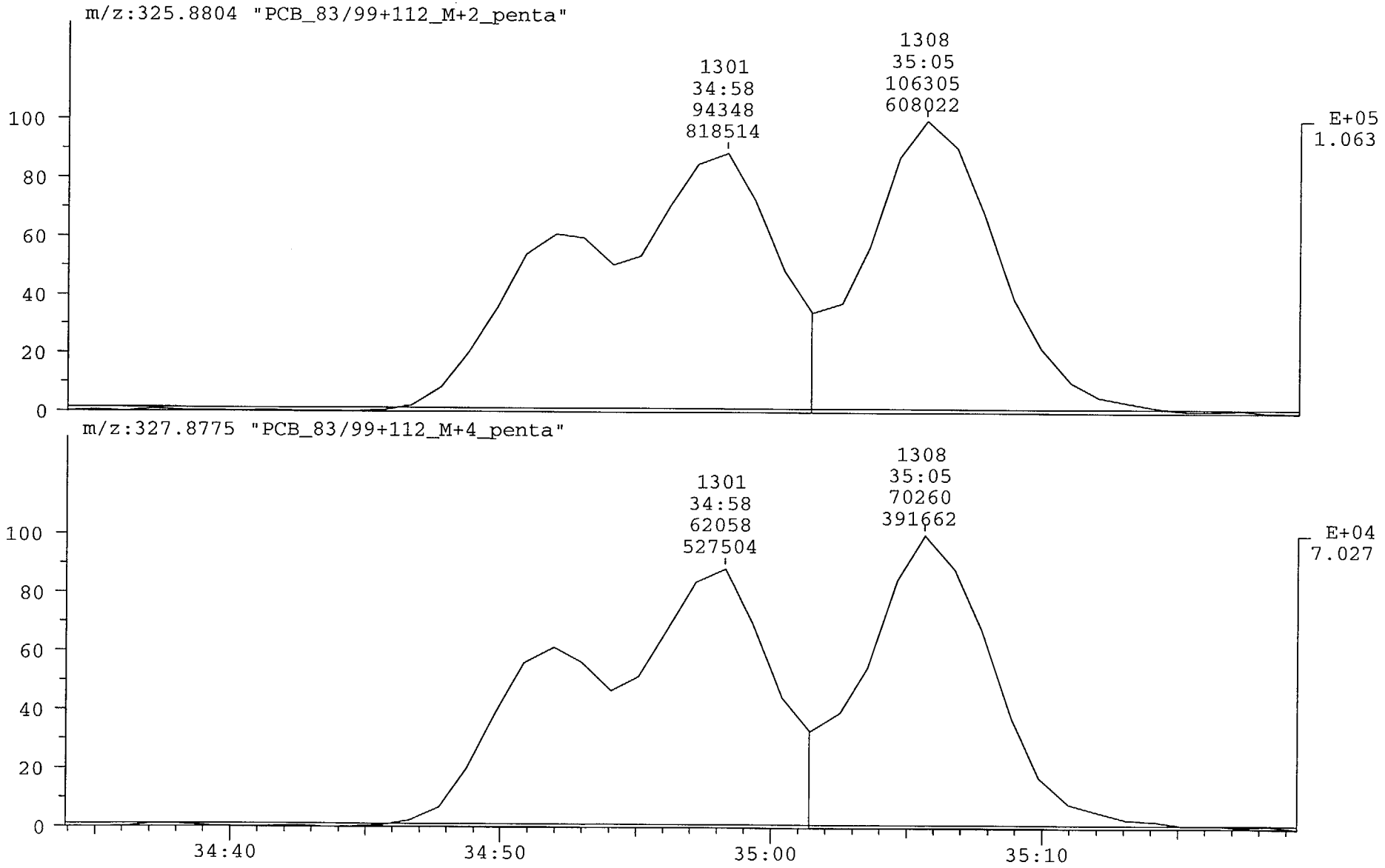
CHRO: aph2w5kl 25-Apr-06 Elapse: 33:05 1194
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1127 > 1247 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



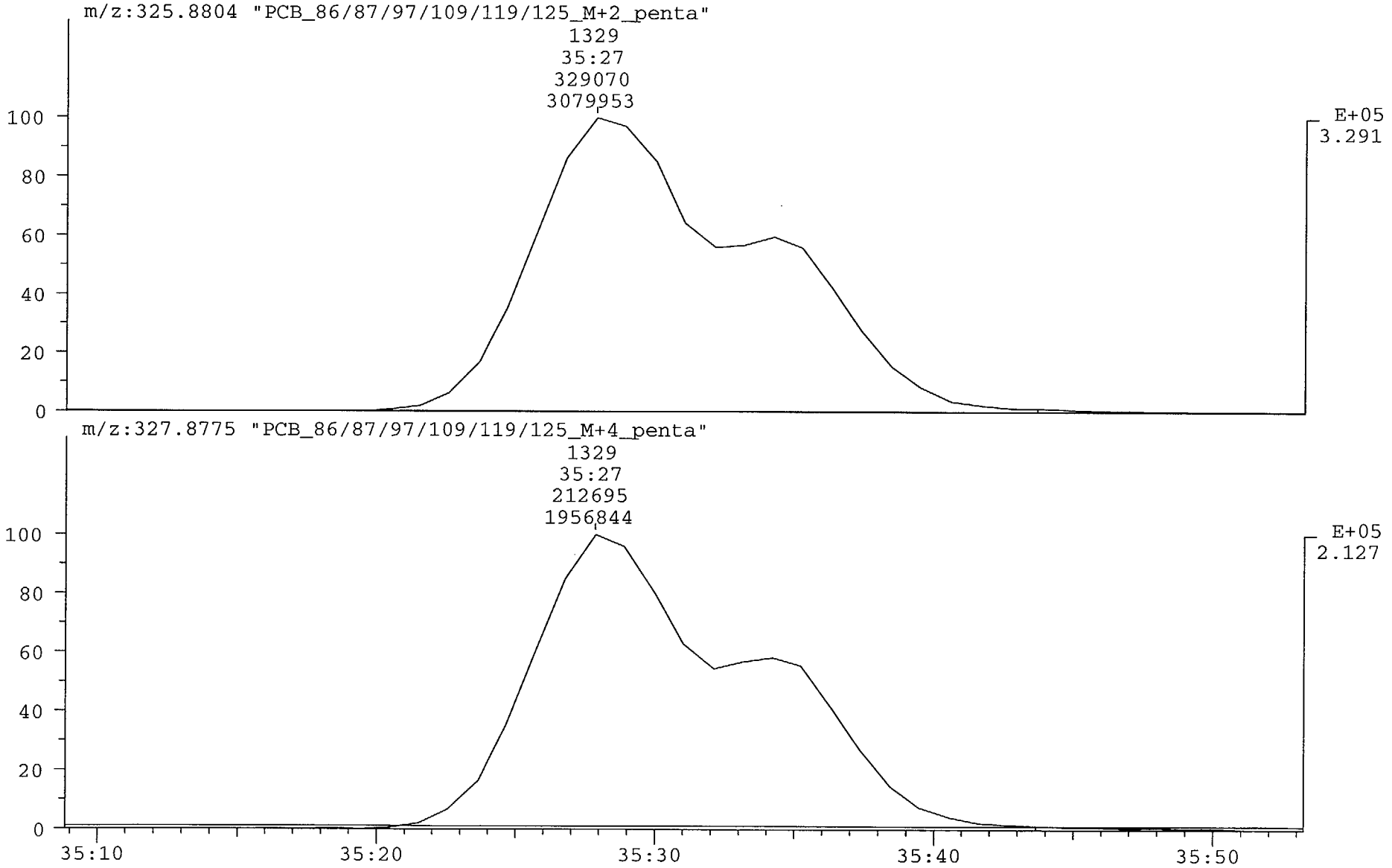
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  34:23      1268
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L               Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1243 > 1293          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



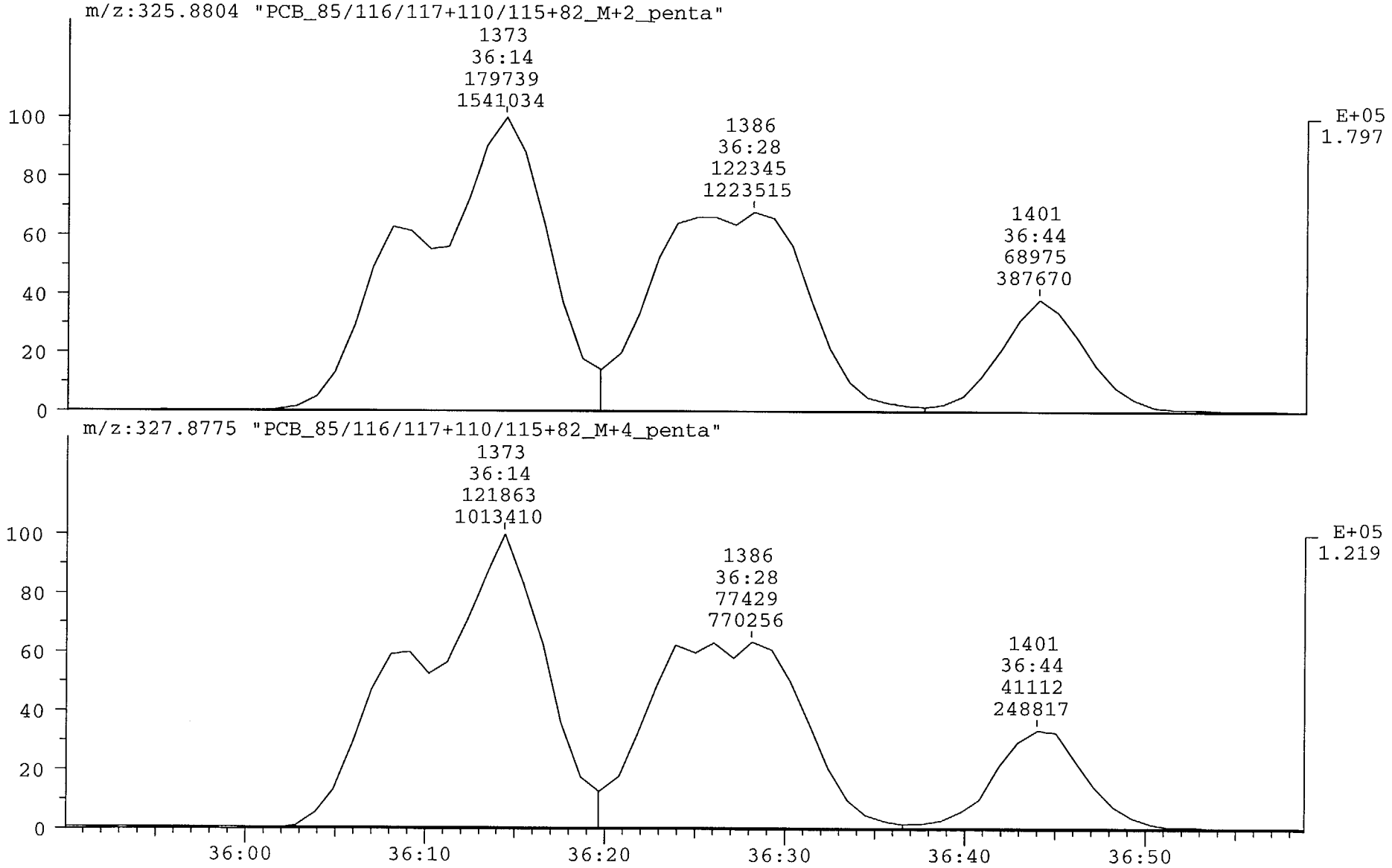
CHRO: aph2w5k1 25-Apr-06 Elapse: 35:05 1308
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1278 > 1321 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 5 Label : -3, 3.0
Disp: Height Area



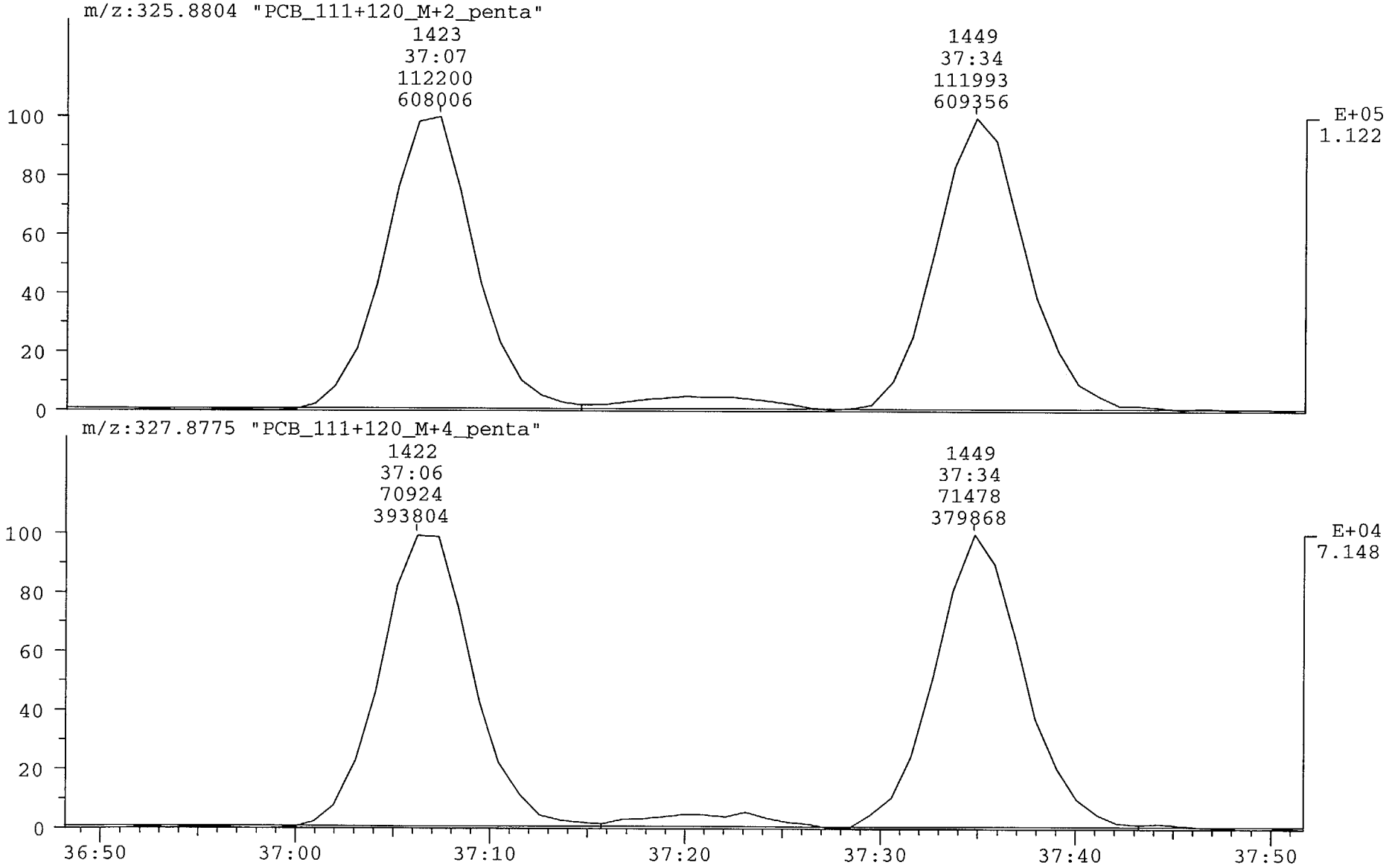
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  35:28      1330
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L               Inlet :  GC     Vial 57
Peak:  100.00  ppm     Label wndw:   1311 > 1353          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 9               Label :  -3, 3.0
Disp:  Height  Area
```



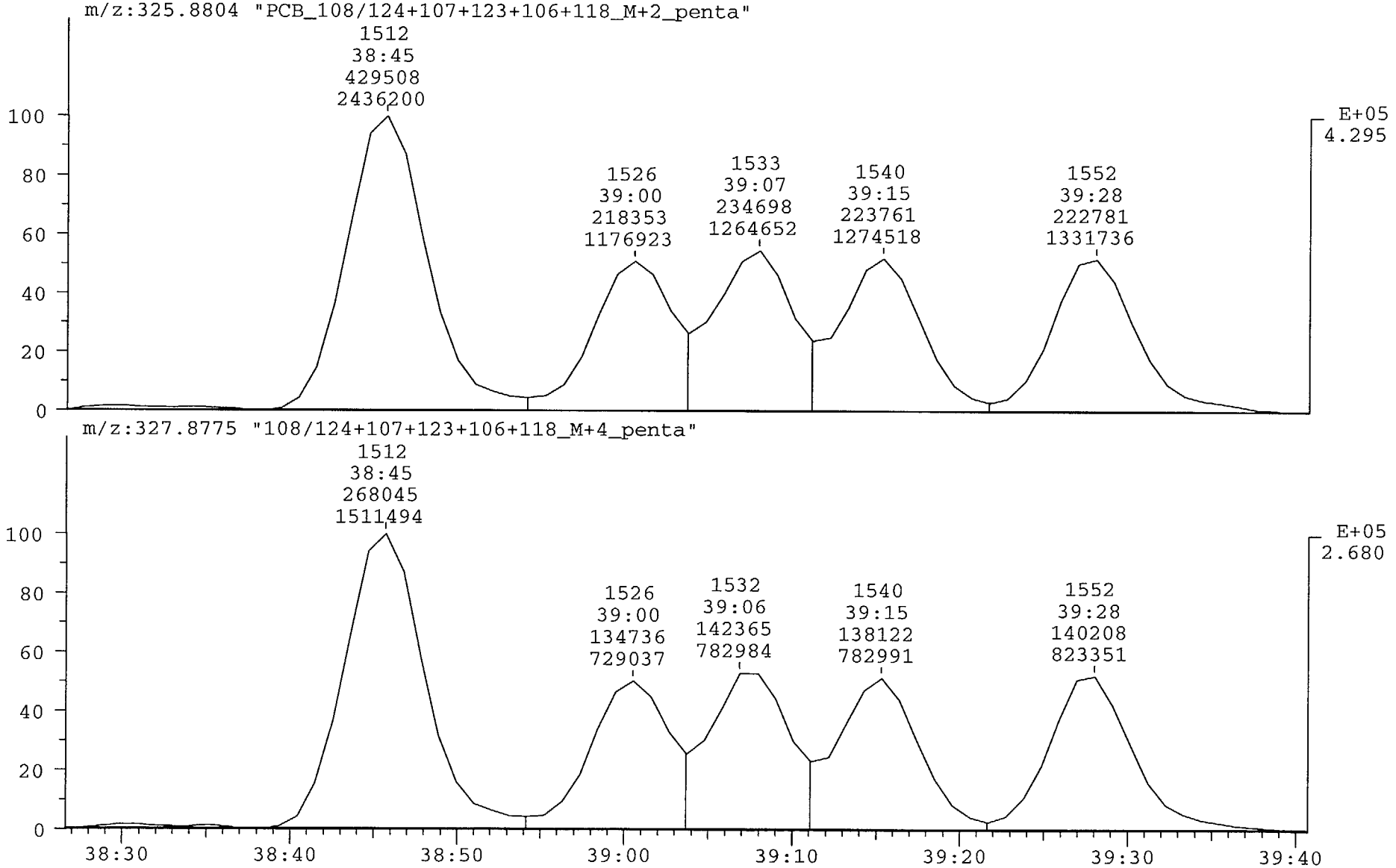
CHRO: aph2w5k1 25-Apr-06 Elapse: 36:32 1390
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1350 > 1415 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 6 Label : -3, 3.0
Disp: Height Area



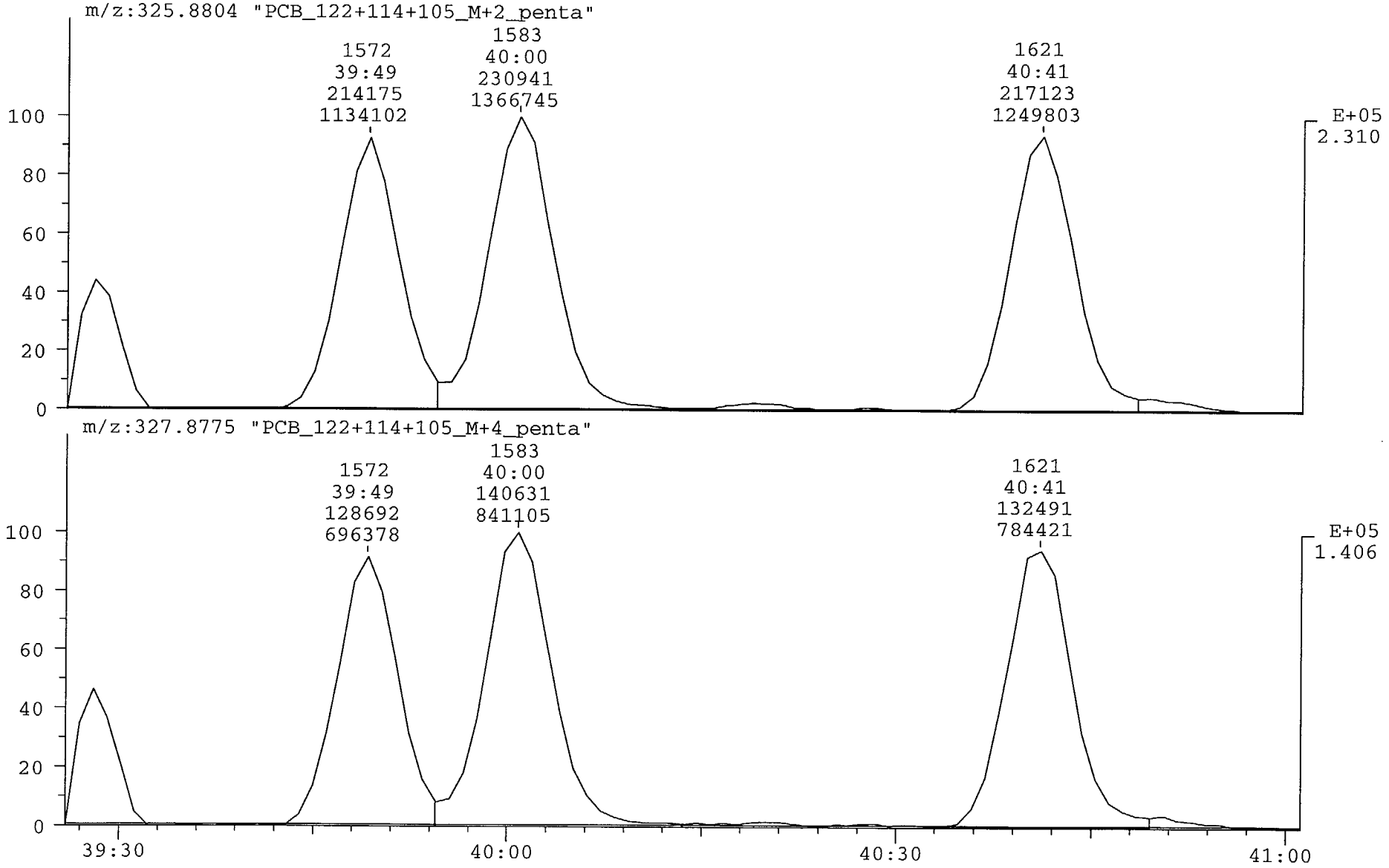
CHRO: aph2w5k1 25-Apr-06 Elapse: 37:09 1425
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1405 > 1465 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



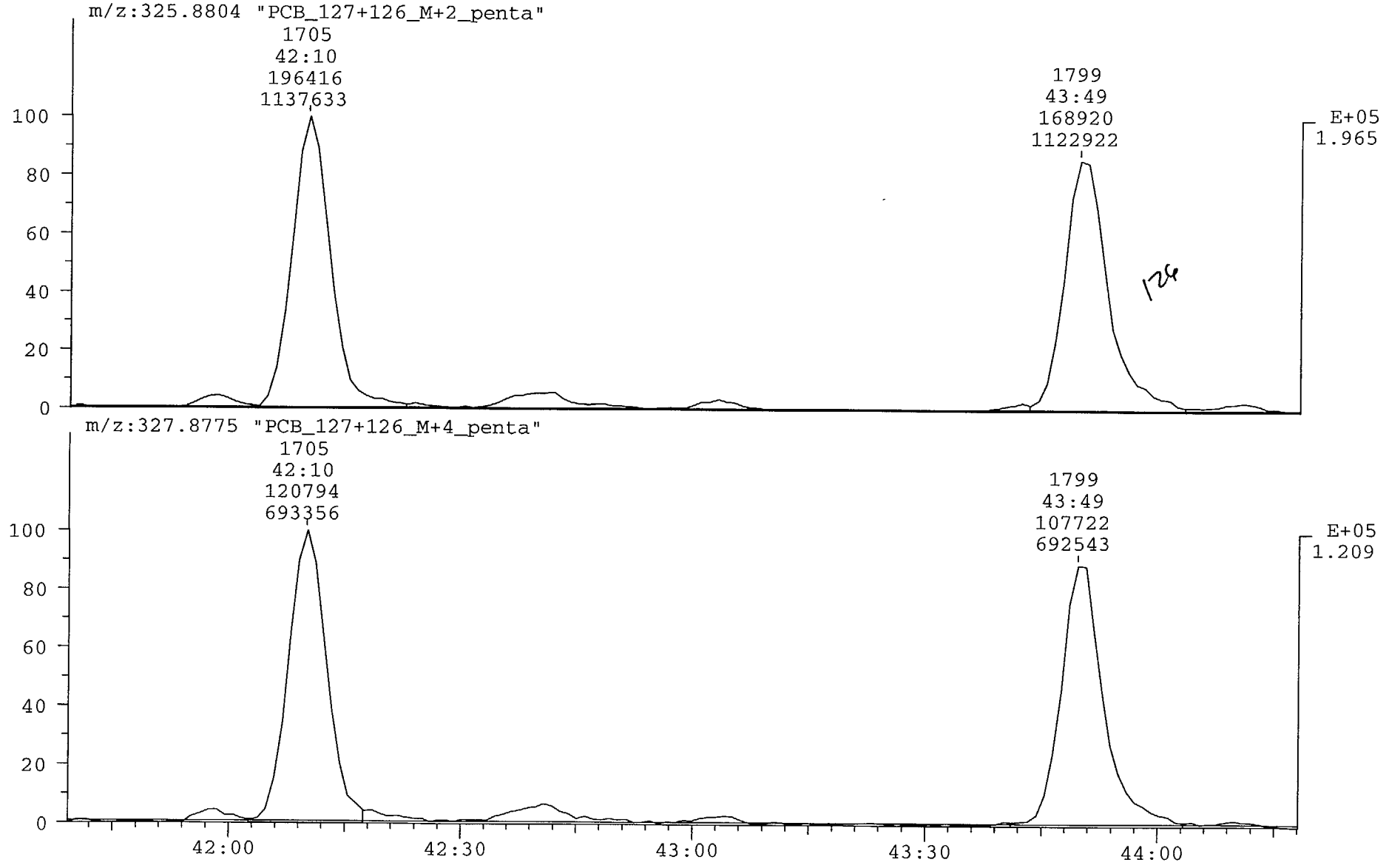
CHRO: aph2w5k1 25-Apr-06 Elapse: 39:09 1534
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1494 > 1564 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



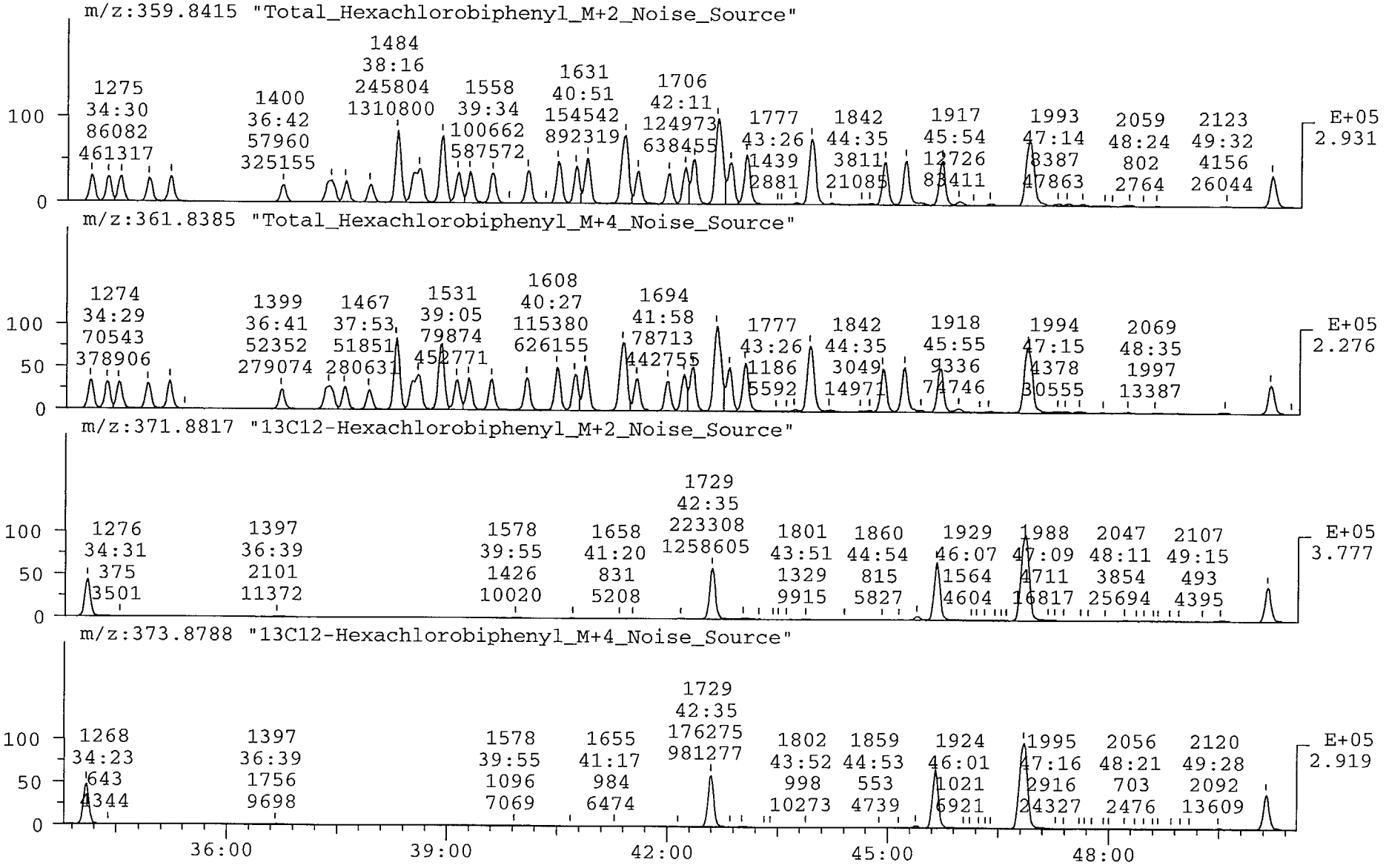
CHRO: aph2w5k1 25-Apr-06 Elapse: 40:15 1597
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1550 > 1640 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



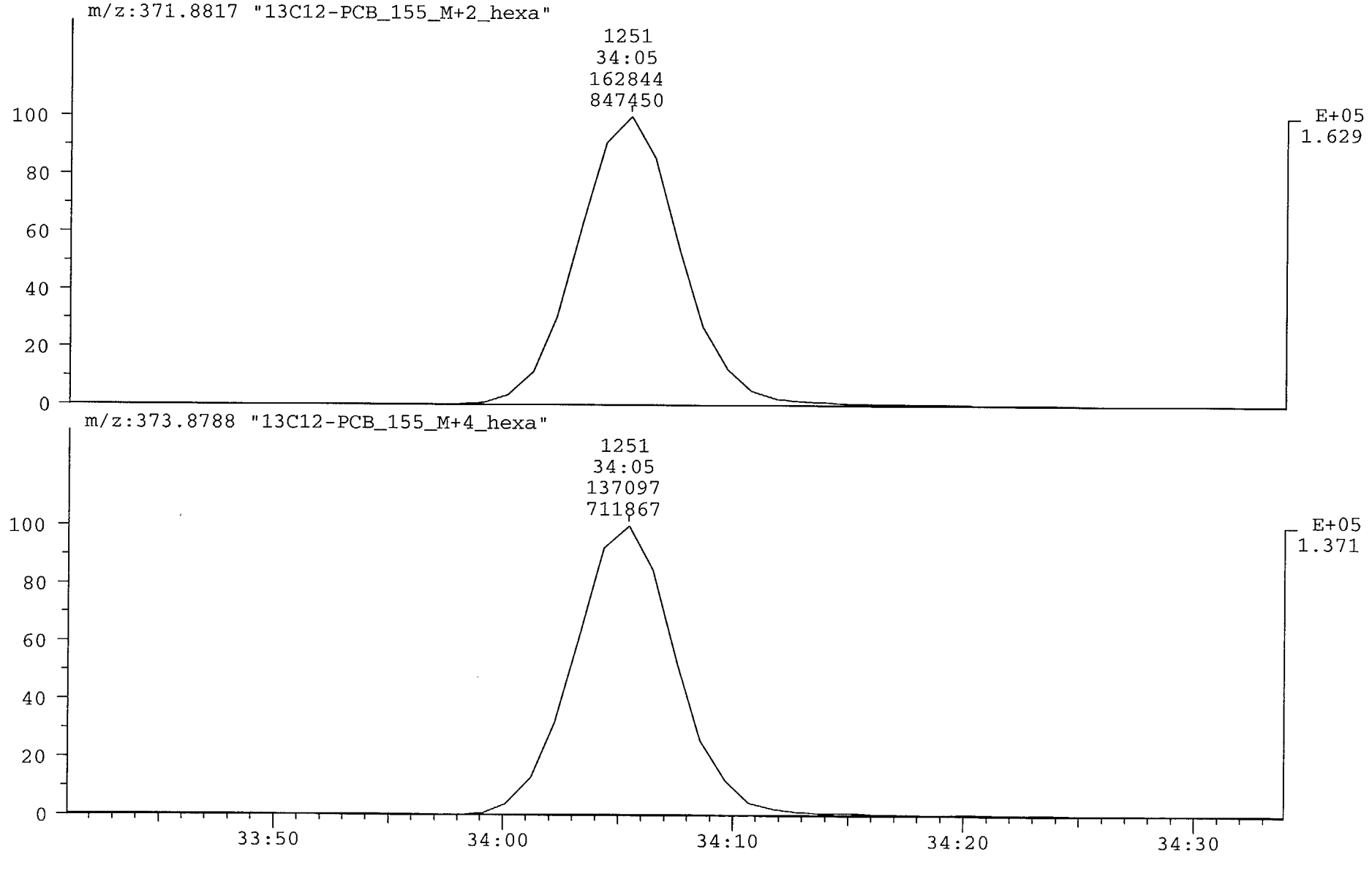
CHRO: aph2w5k1 25-Apr-06 Elapse: 42:58 1751
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1676 > 1826 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



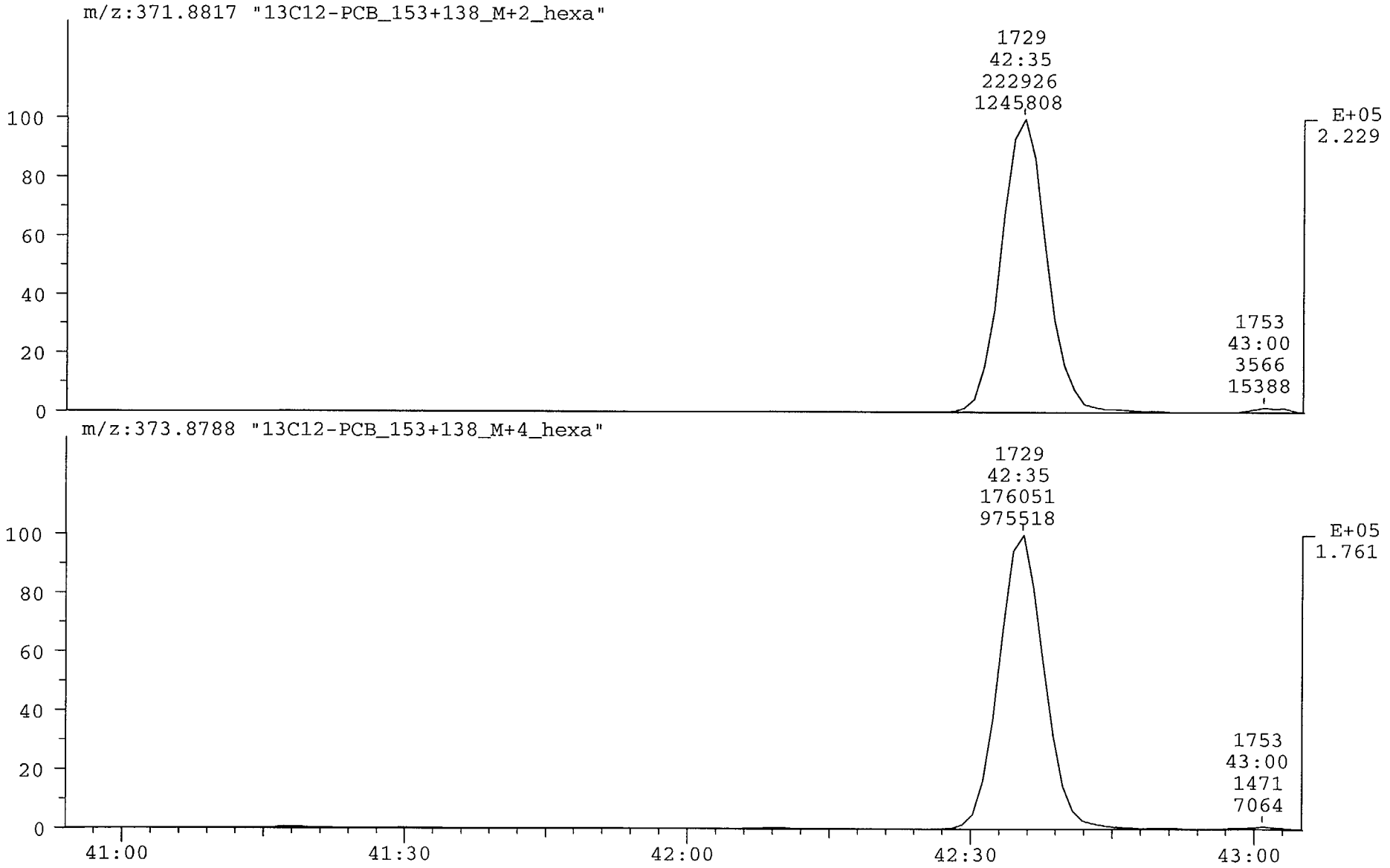
CHRO: aph2w5k1 25-Apr-06 Elapse: 42:10 1705
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1234 > 2181 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



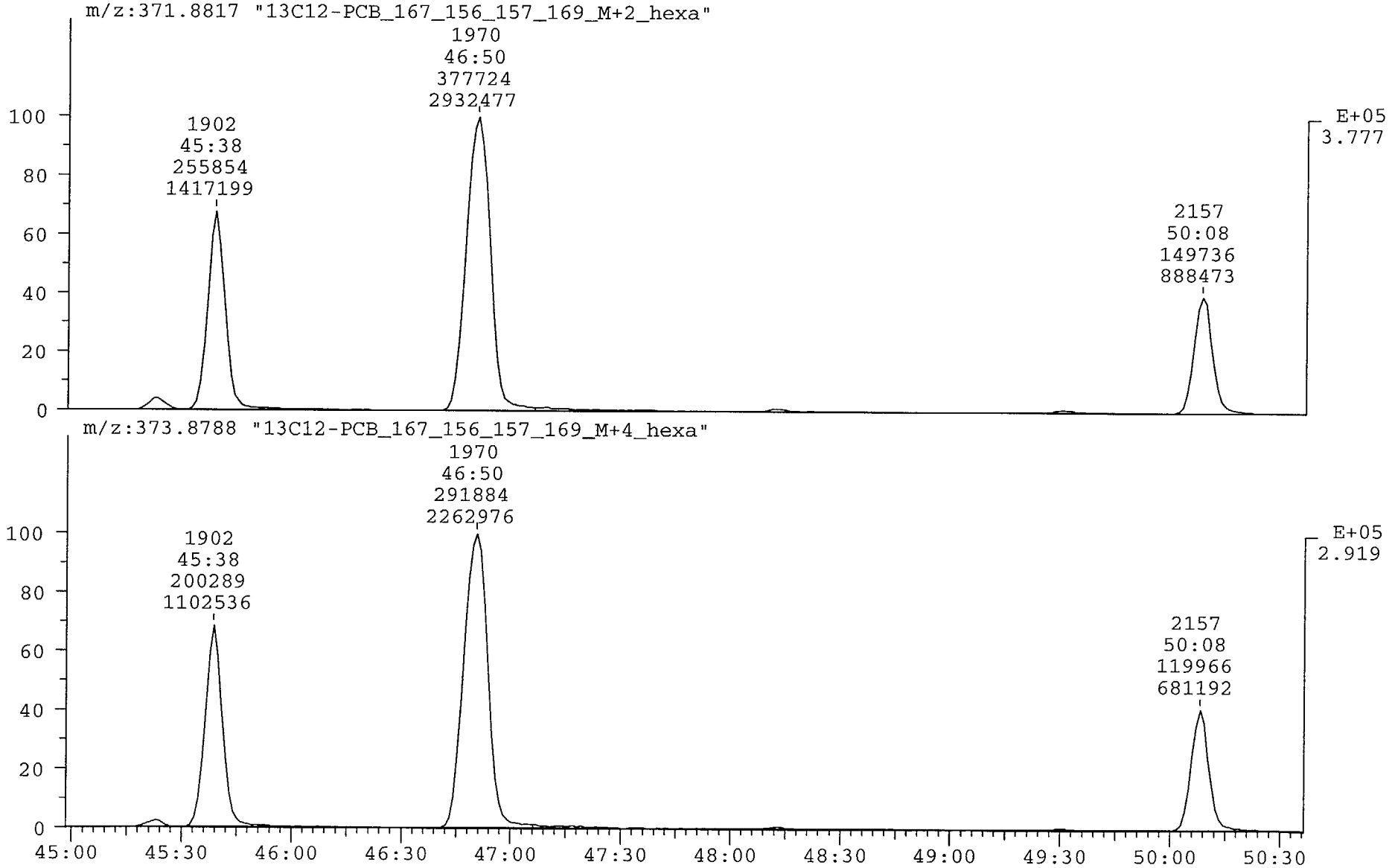
CHRO: aph2w5k1 25-Apr-06 Elapse: 34:07 1253
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1228 > 1278 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



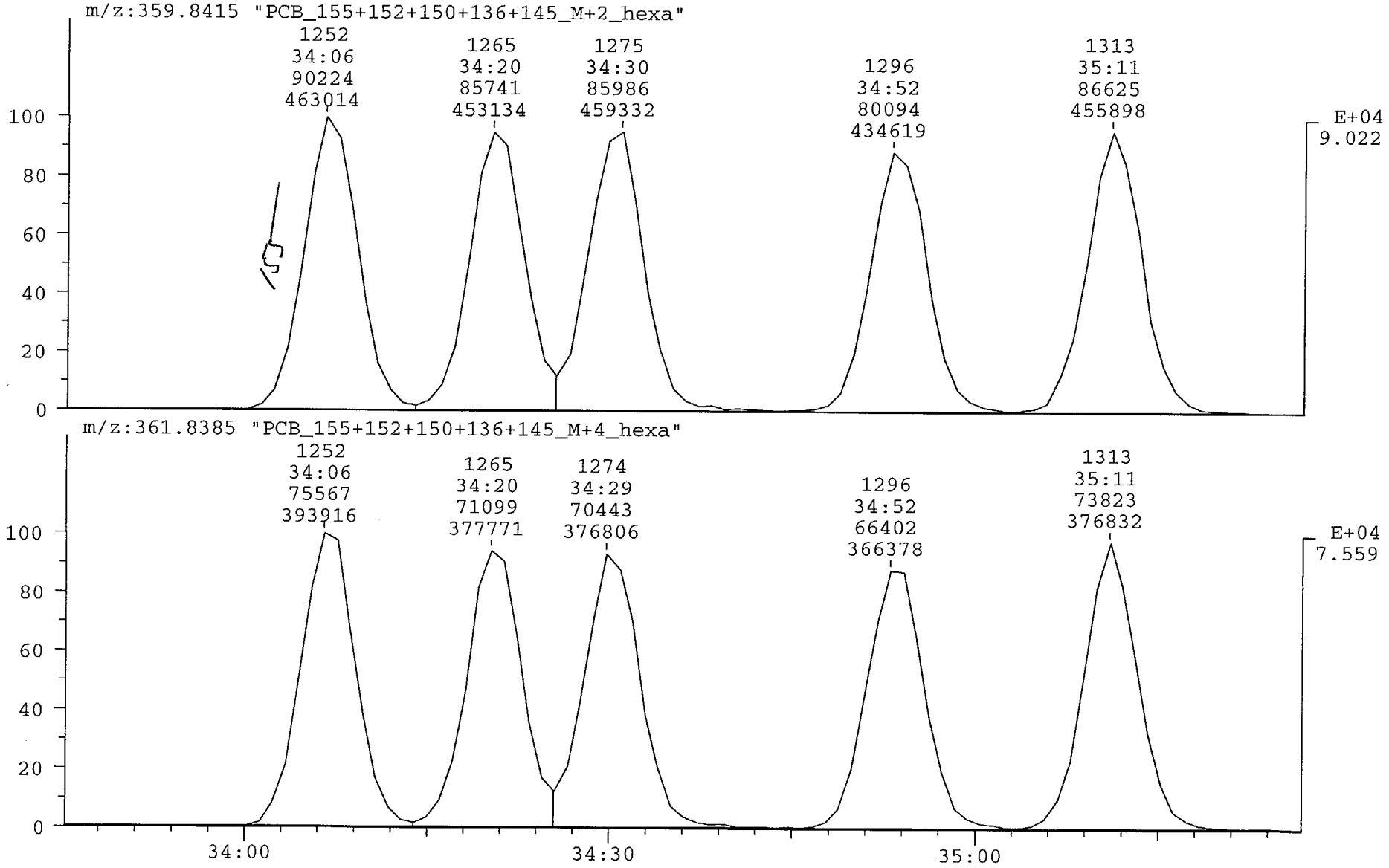
CHRO: aph2w5k1 25-Apr-06 Elapse: 41:59 1695
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1633 > 1757 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



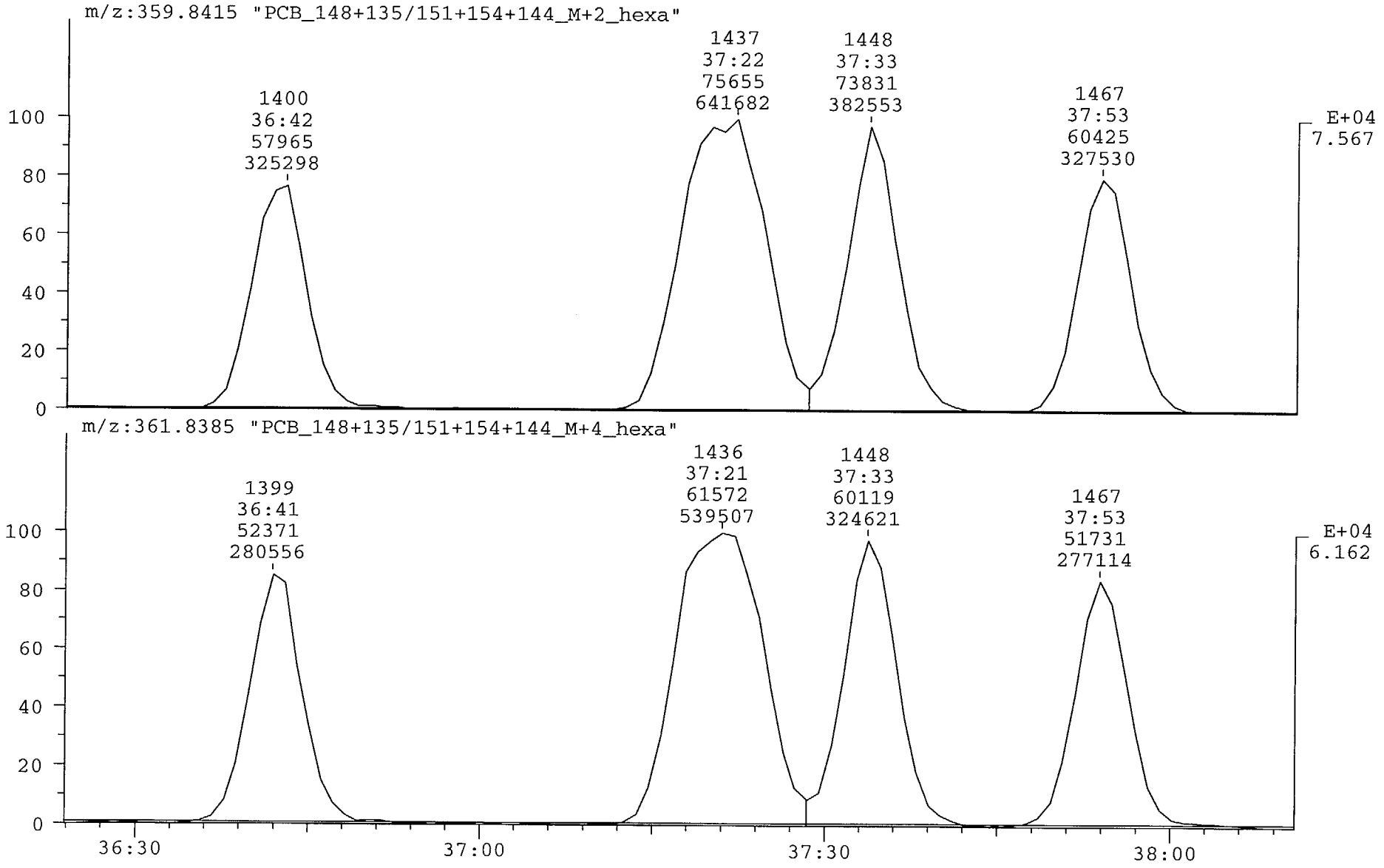
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  47:52      2029
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L               Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1864 > 2184          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



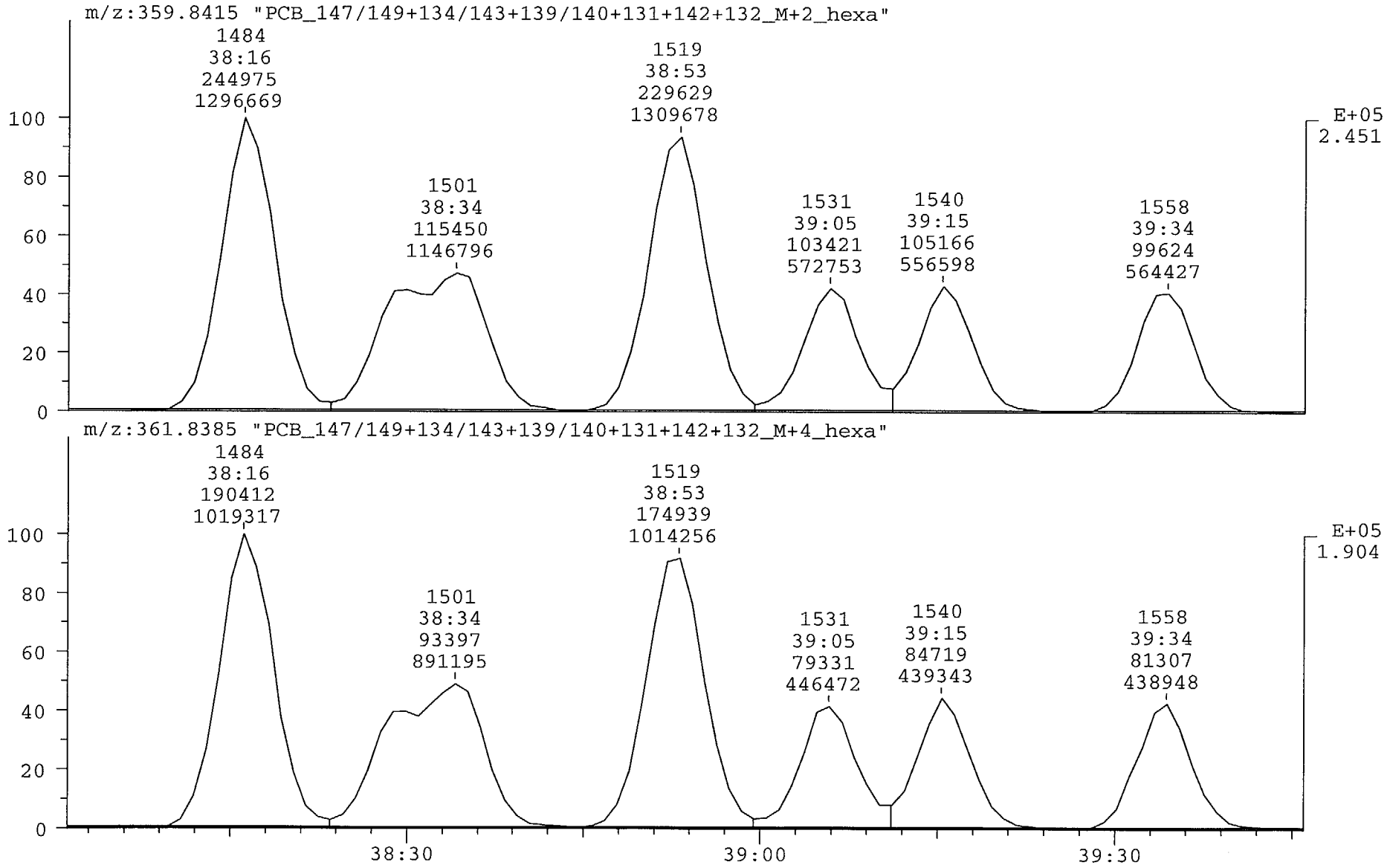
CHRO: aph2w5k1 25-Apr-06 Elapse: 34:44 1288
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1232 > 1328 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



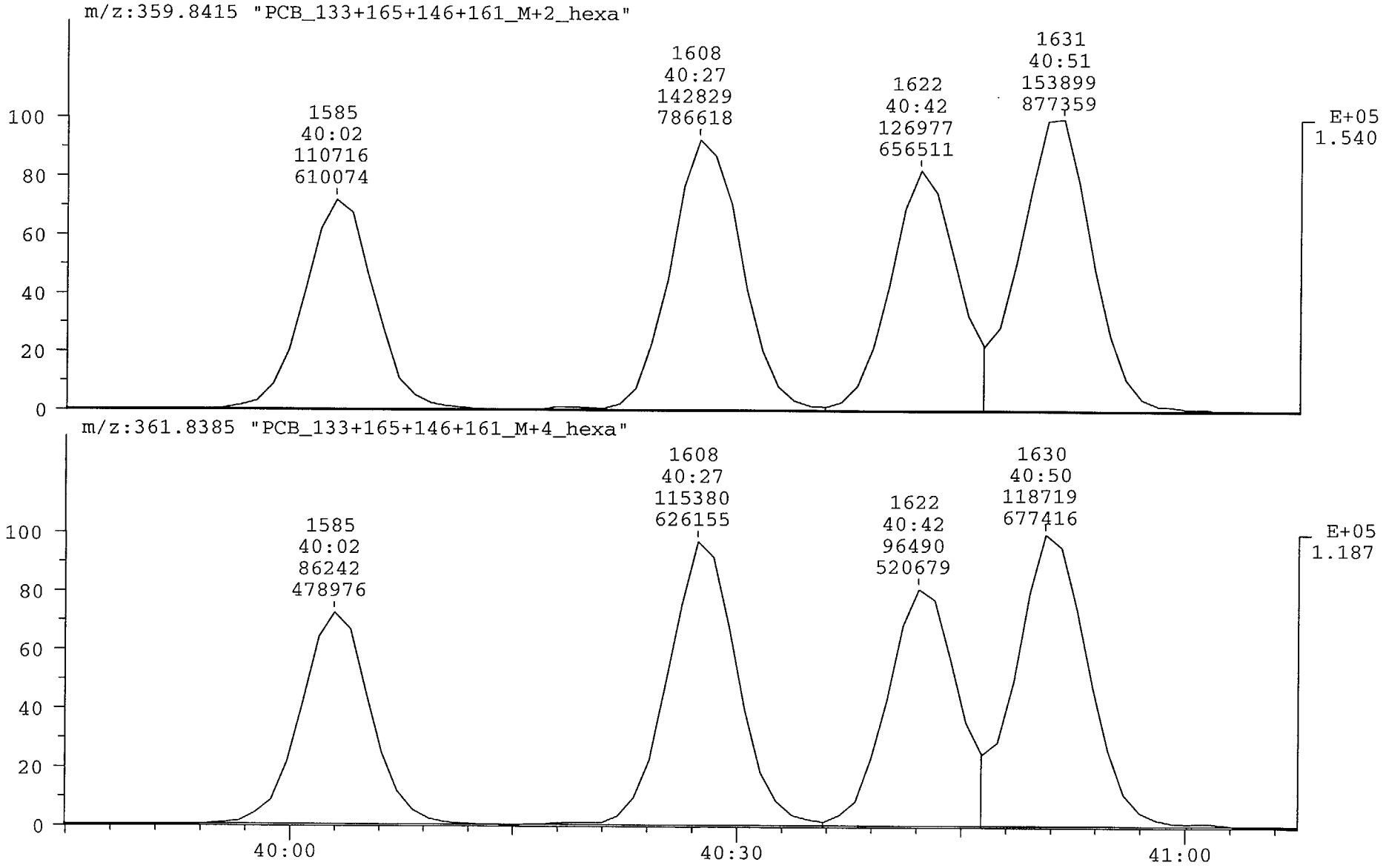
CHRO: aph2w5k1 25-Apr-06 Elapse: 37:19 1435
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1382 > 1479 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



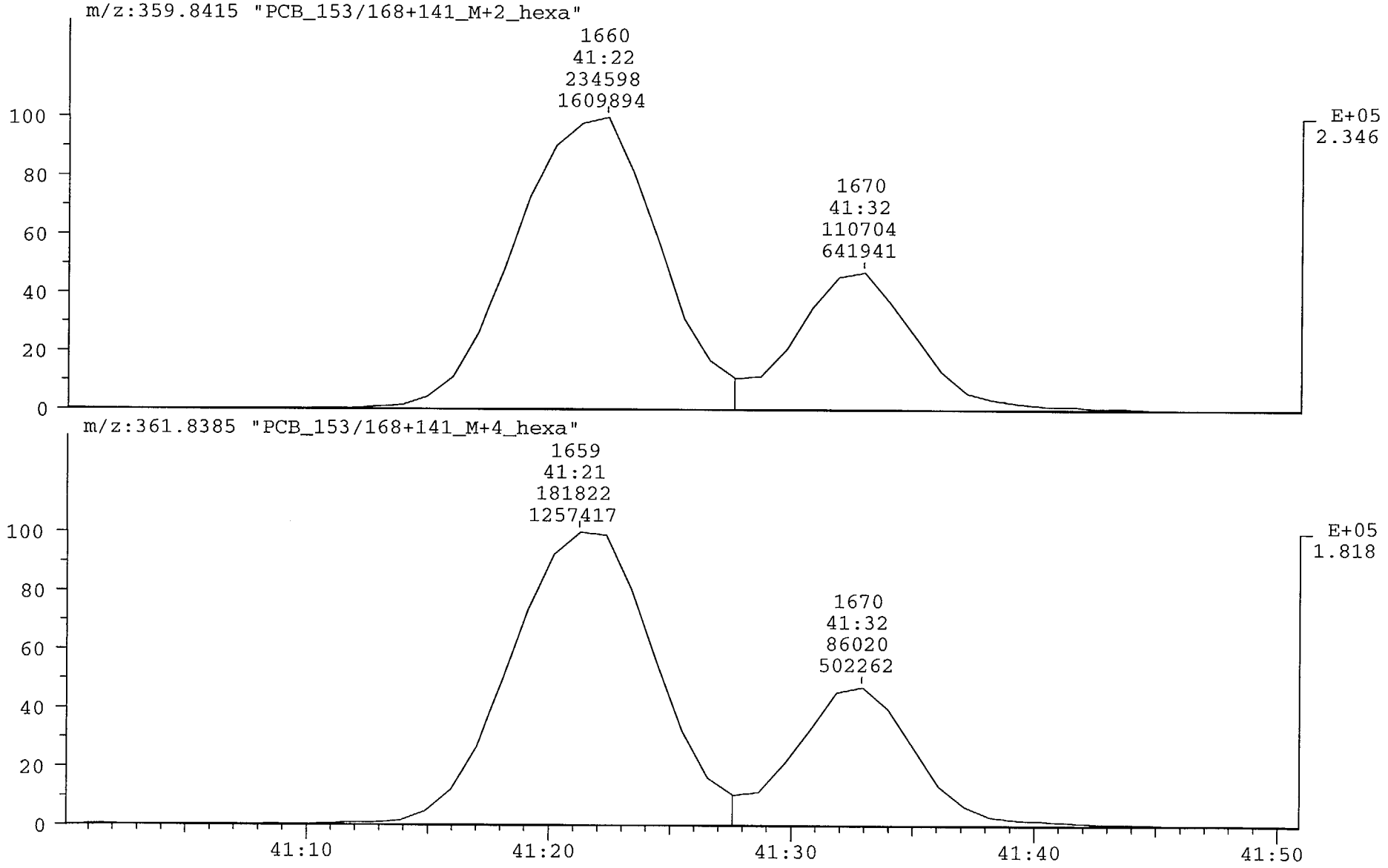
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  38:53      1519
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L               Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1474 > 1569          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 5               Label :  -3, 3.0
Disp:  Height  Area
```



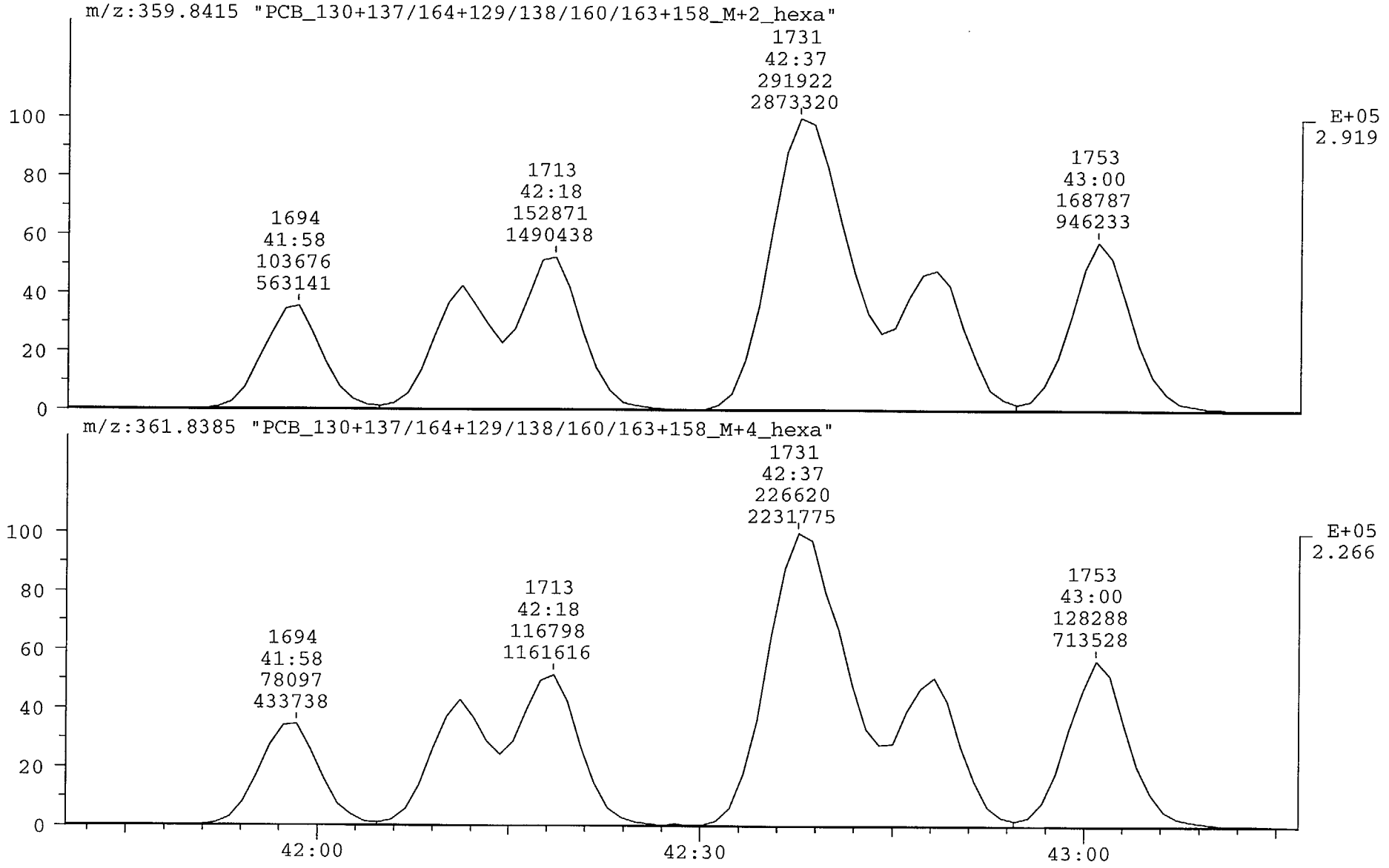
CHRO: aph2w5k1 25-Apr-06 Elapse: 40:29 1610
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1568 > 1646 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



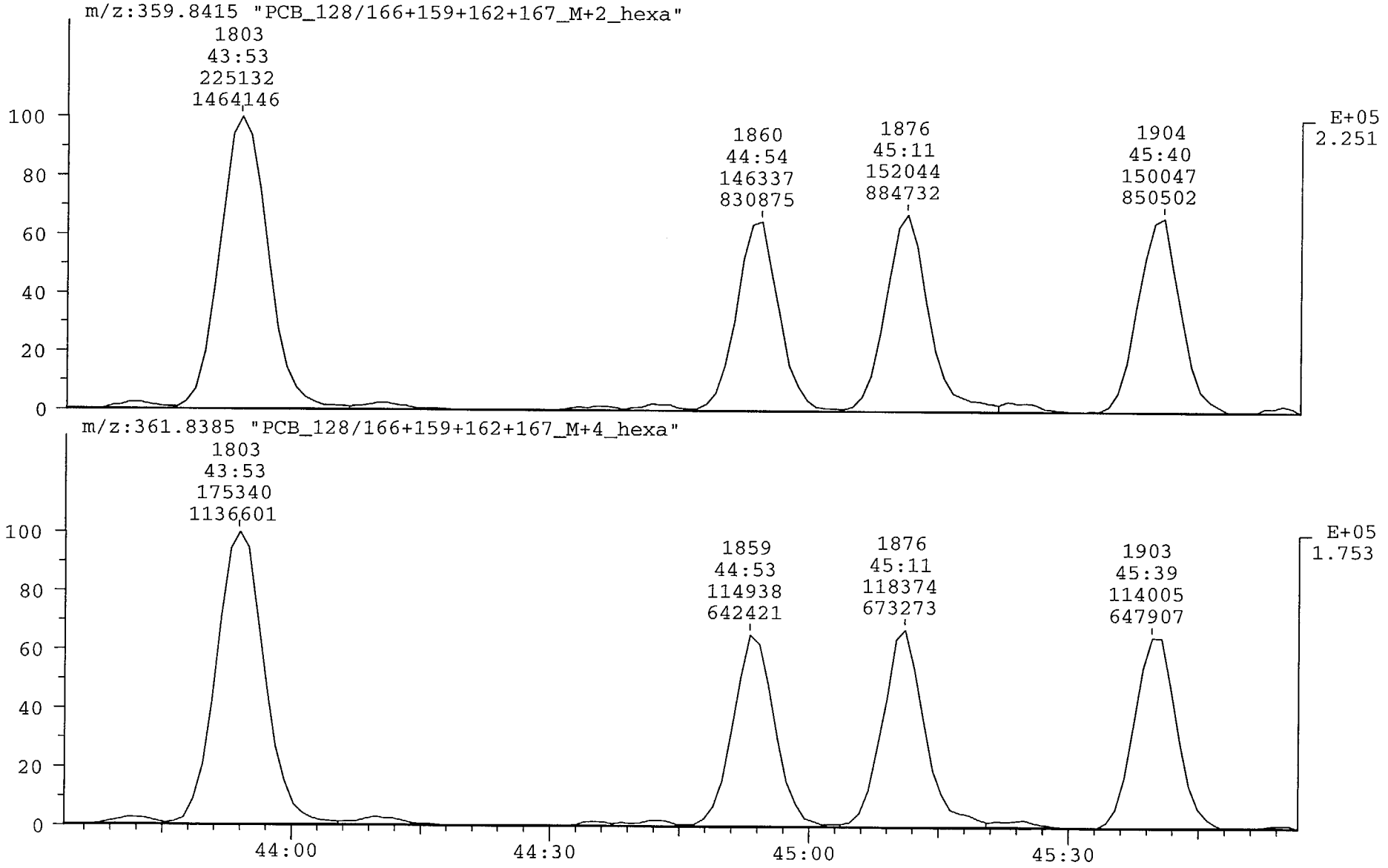
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  41:29      1667
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L              Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1639 > 1687          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



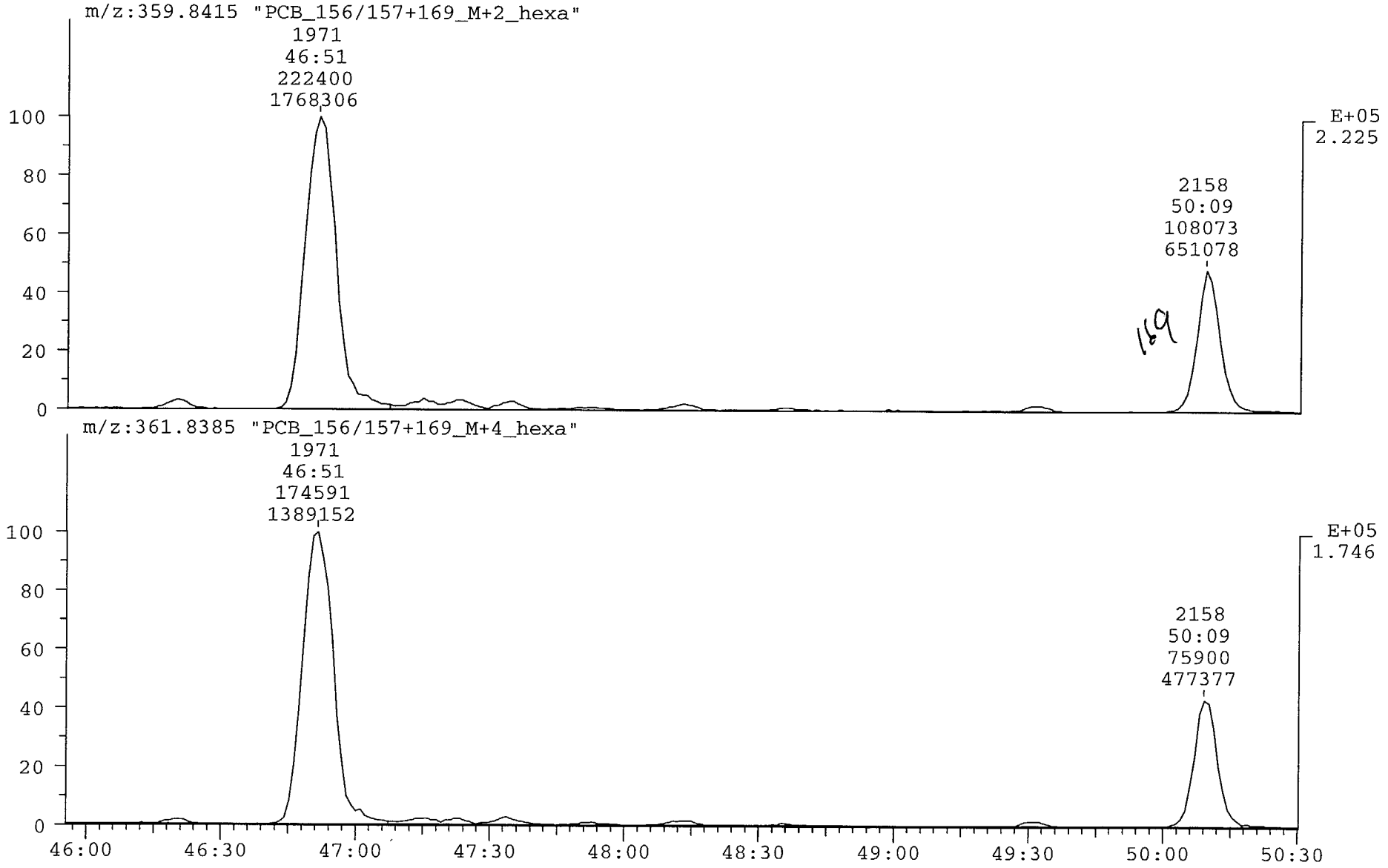
CHRO: aph2w5k1 25-Apr-06 Elapse: 42:31 1725
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1677 > 1768 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 7 Label : -3, 3.0
Disp: Height Area



CHRO: aph2w5k1 25-Apr-06 Elapse: 44:47 1854
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1784 > 1919 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

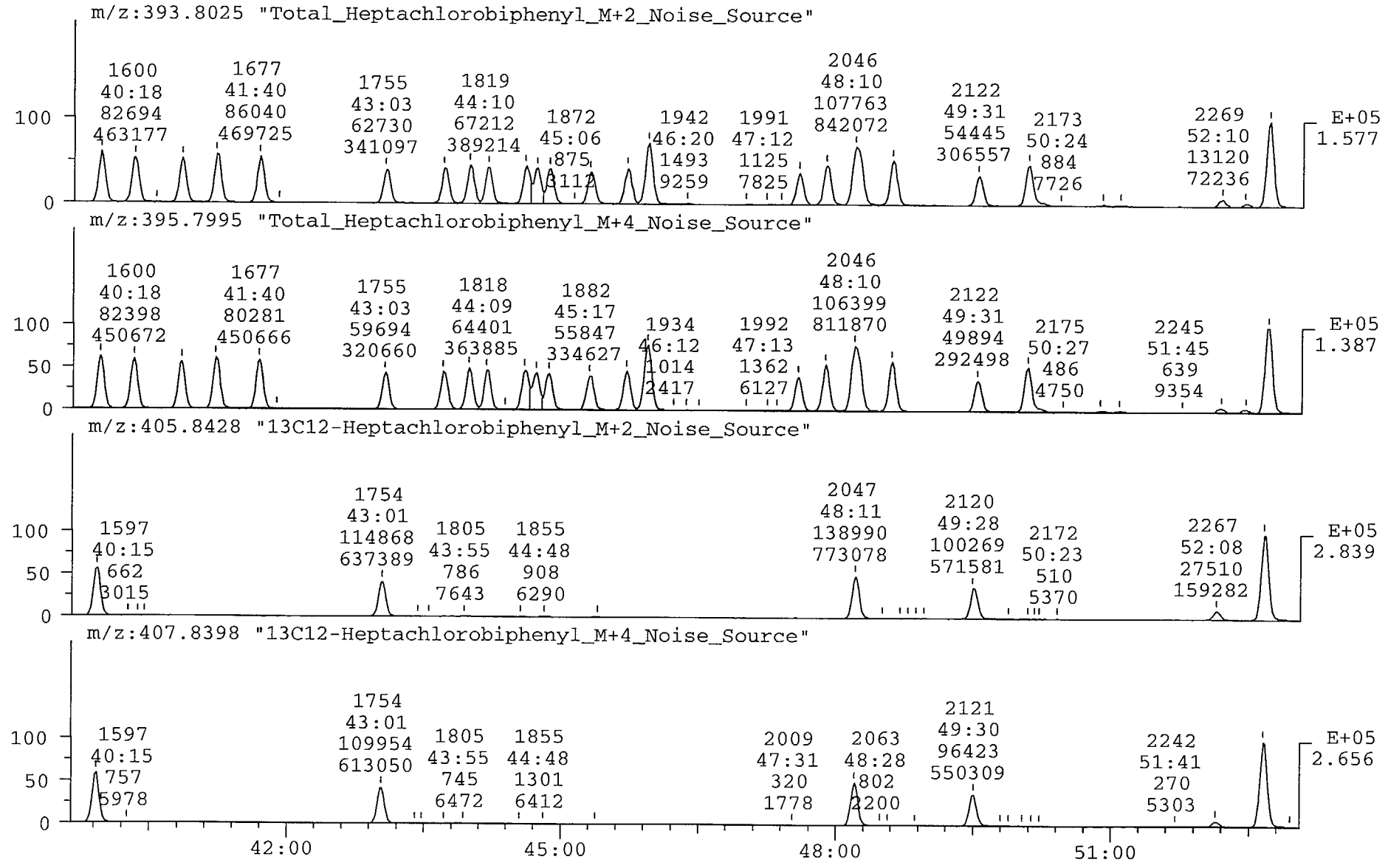


CHRO: aph2w5k1 25-Apr-06 Elapse: 48:28 2063
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1918 > 2178 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

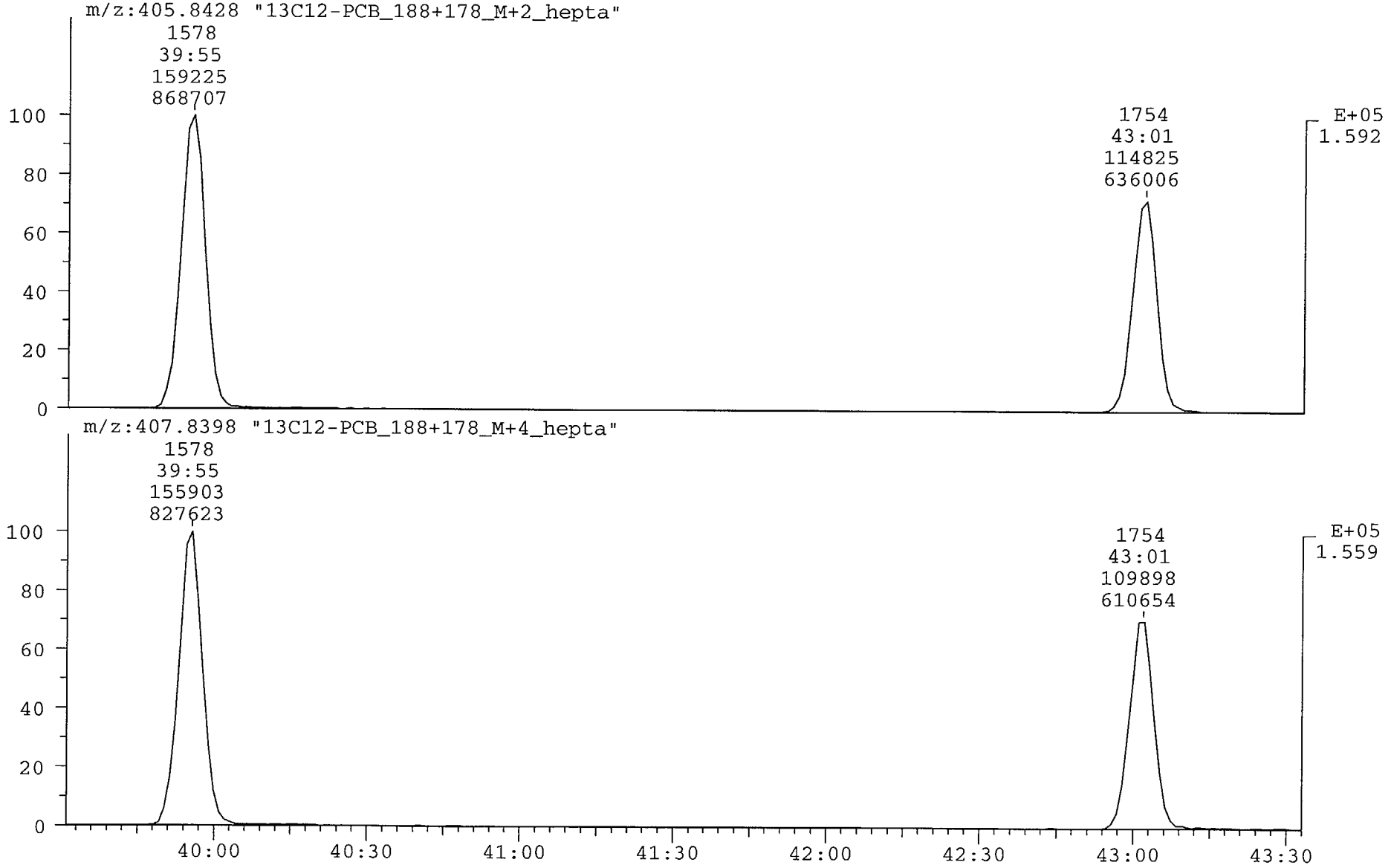


169

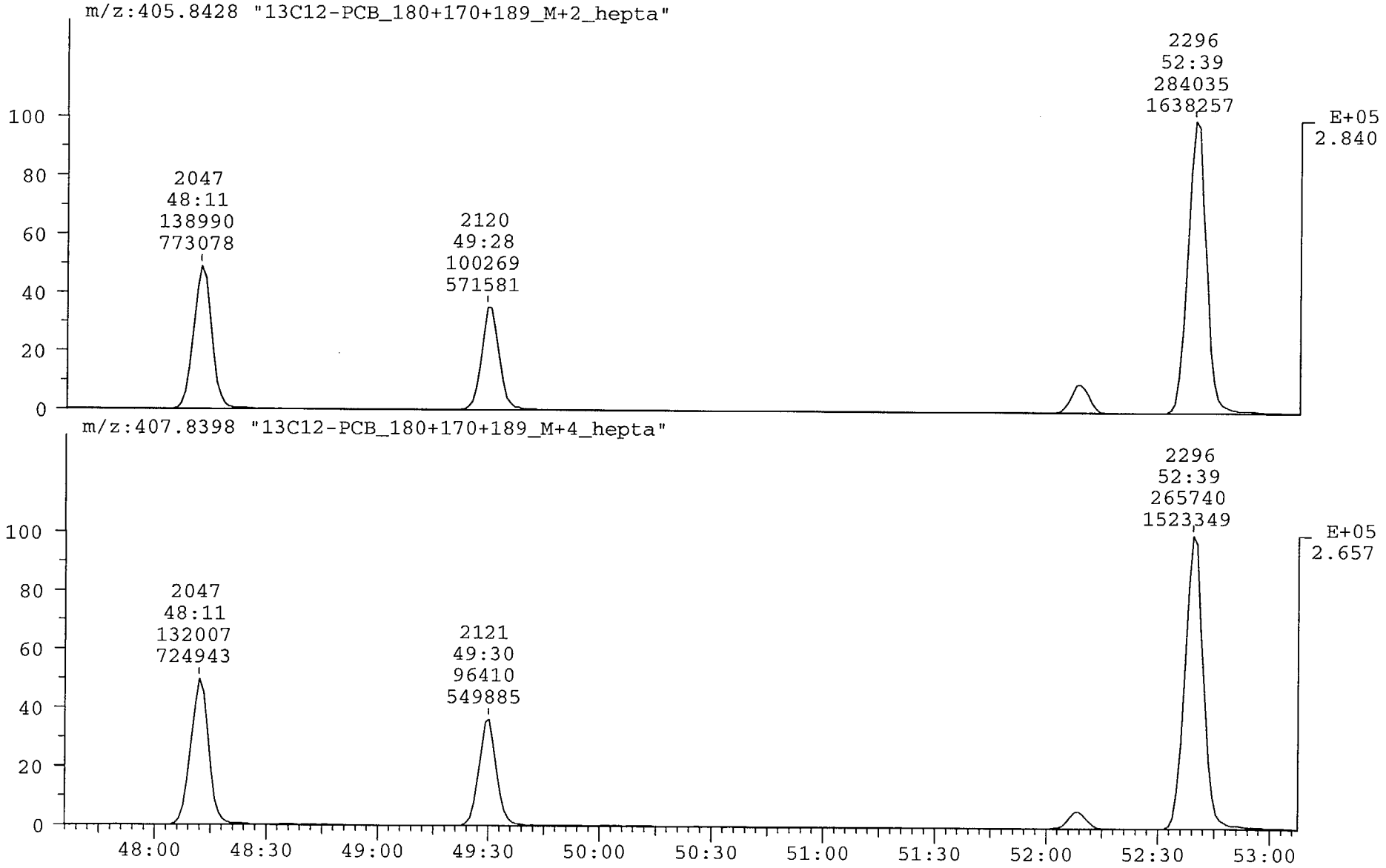
CHRO: aph2w5k1 25-Apr-06 Elapse: 46:20 1942
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1562 > 2319 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



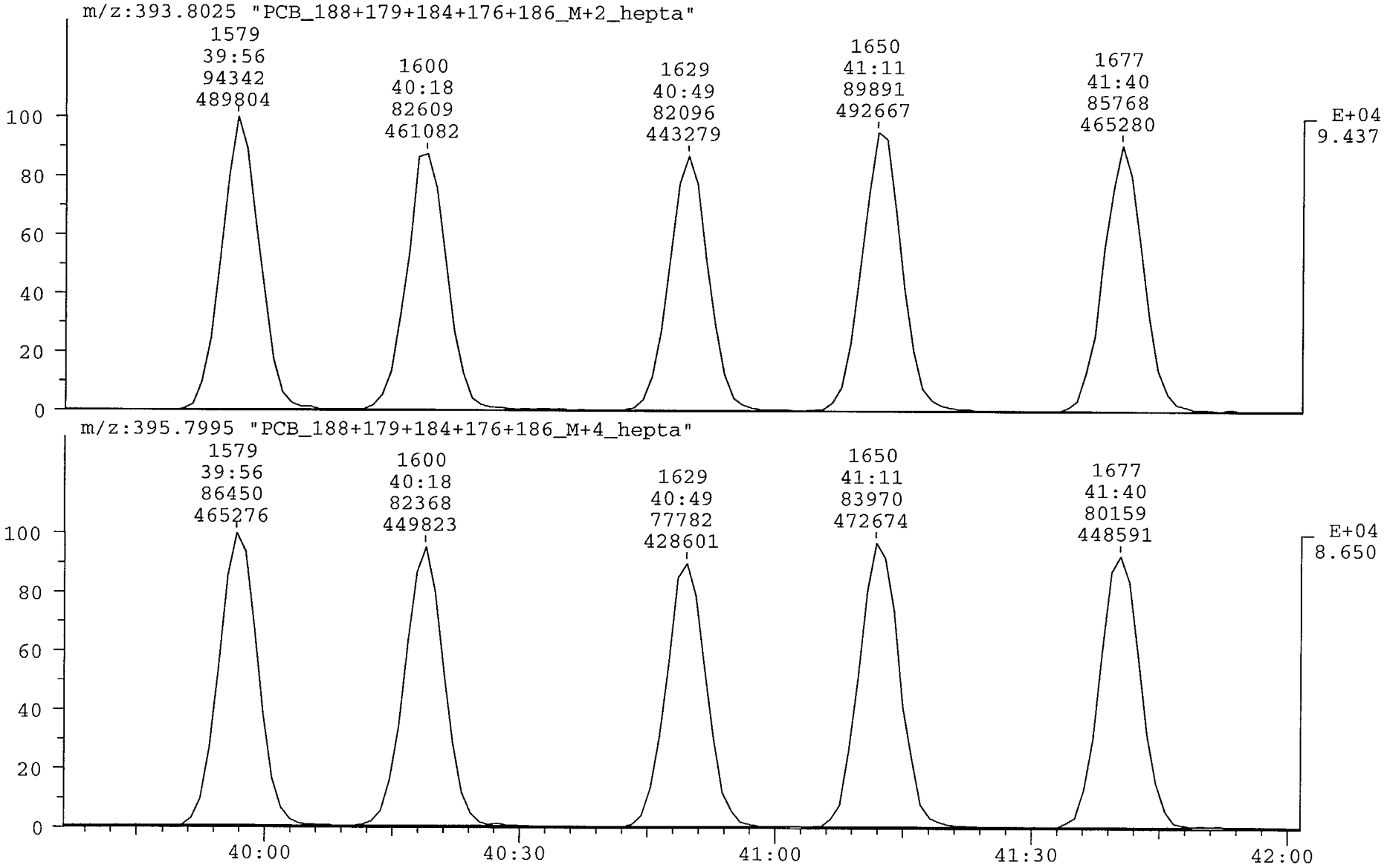
CHRO: aph2w5k1 25-Apr-06 Elapse: 41:31 1669
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1555 > 1783 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



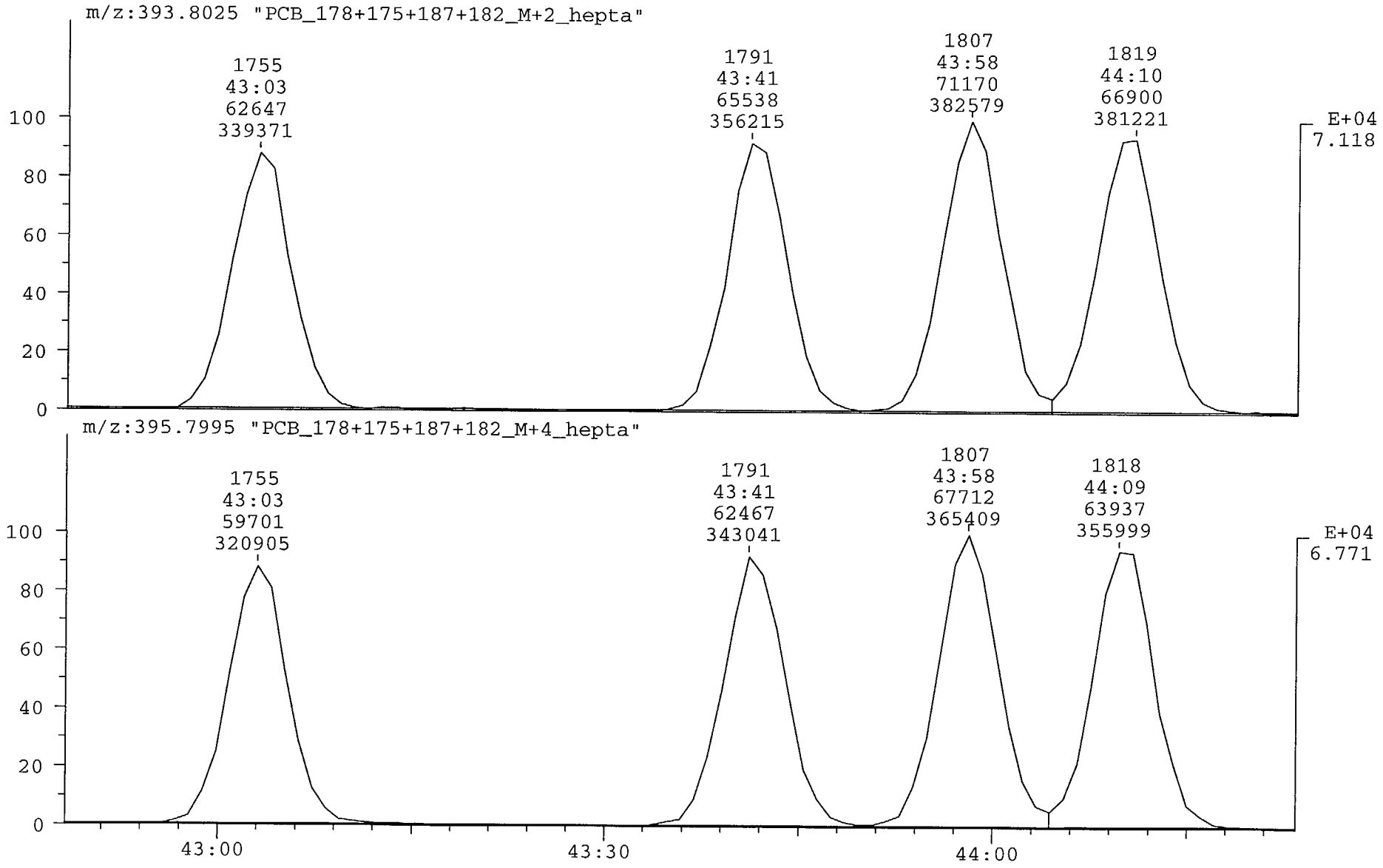
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  50:24      2173
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L              Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   2013 > 2323          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



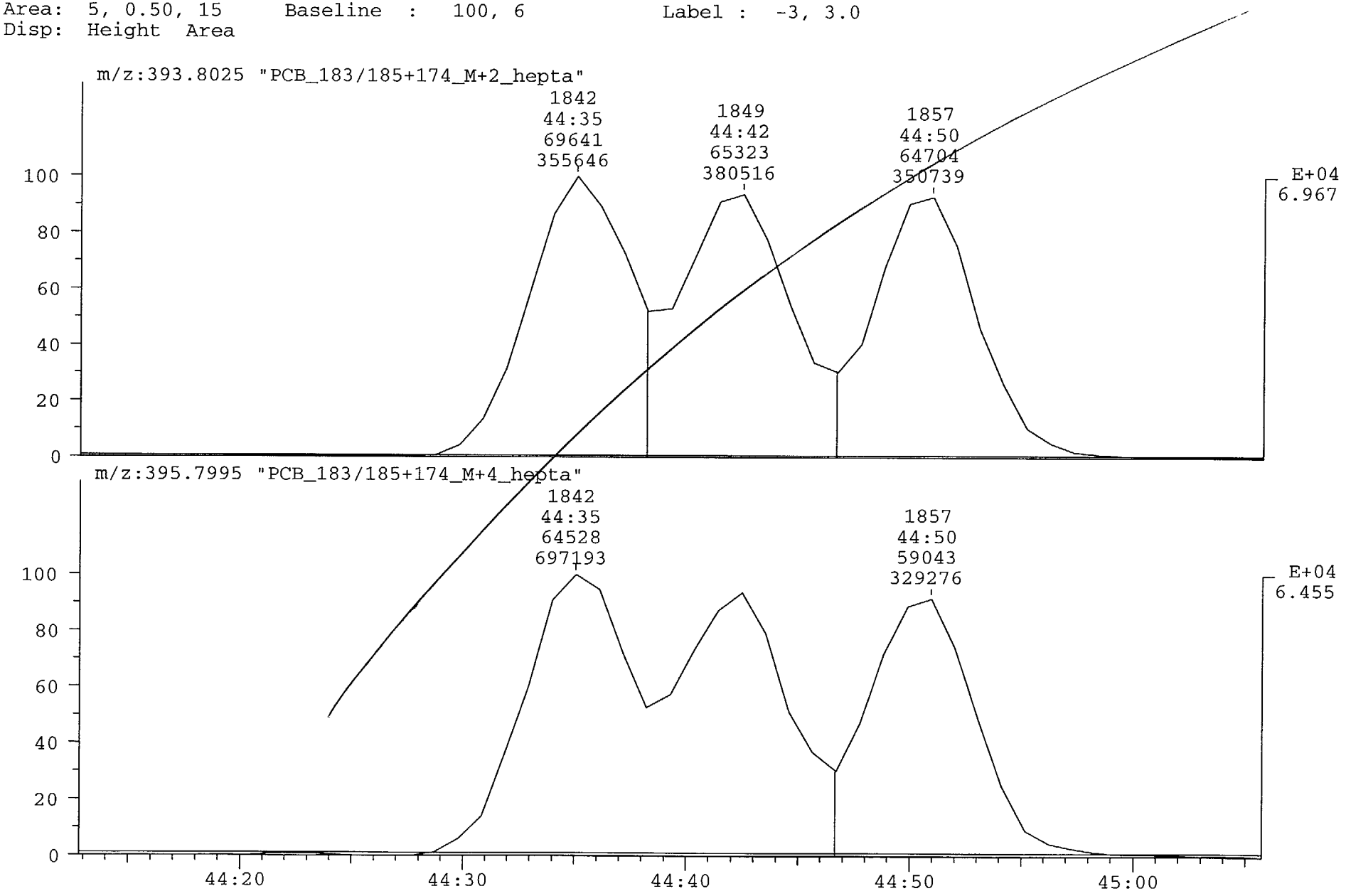
CHRO: aph2w5k1 25-Apr-06 Elapse: 40:52 1632
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1560 > 1697 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



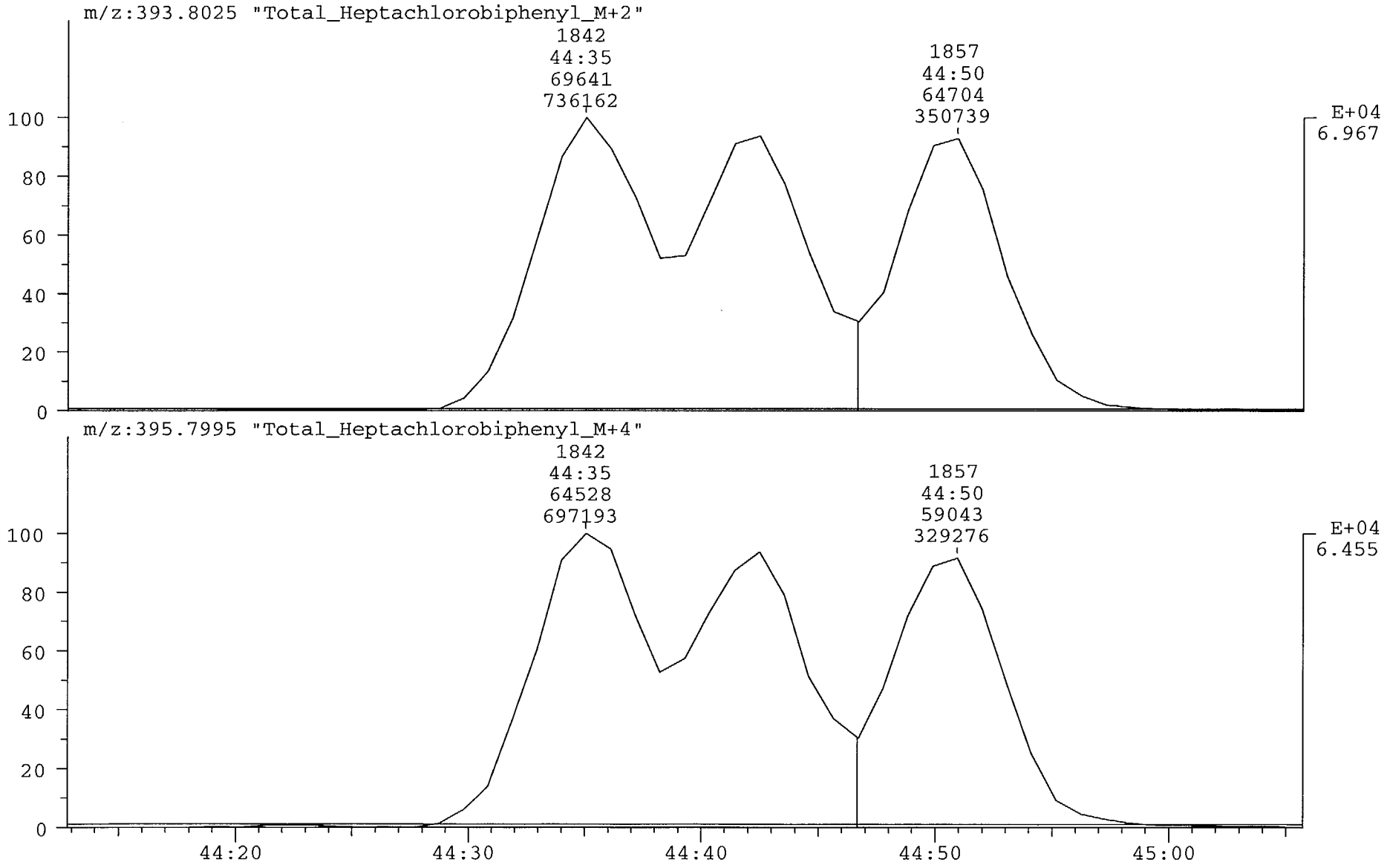
CHRO: aph2w5k1 25-Apr-06 Elapse: 43:41 1791
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1741 > 1831 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



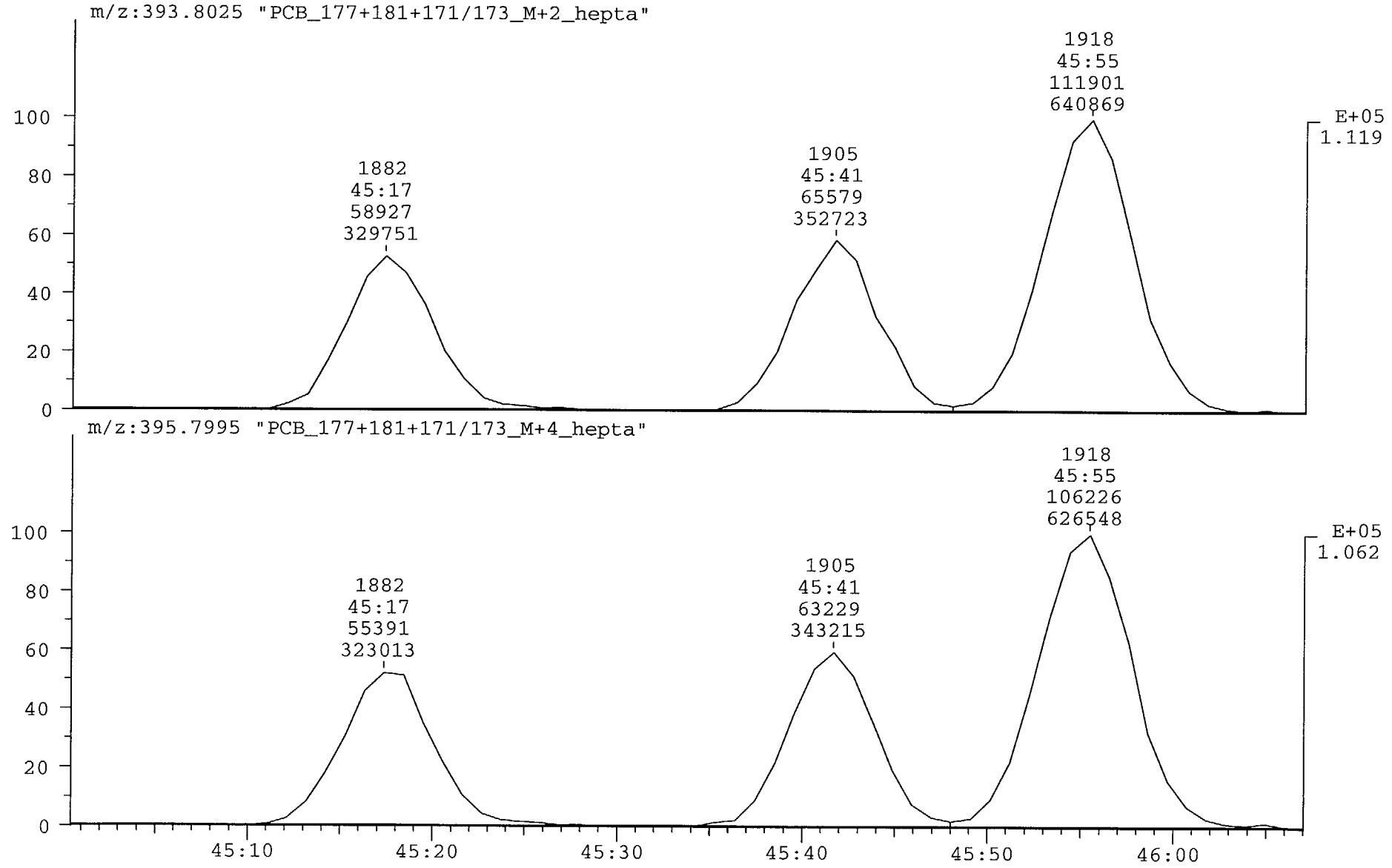
CHRO: aph2w5k1 25-Apr-06 Elapse: 44:49 1856
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1821 > 1871 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 6 Label : -3, 3.0
Disp: Height Area



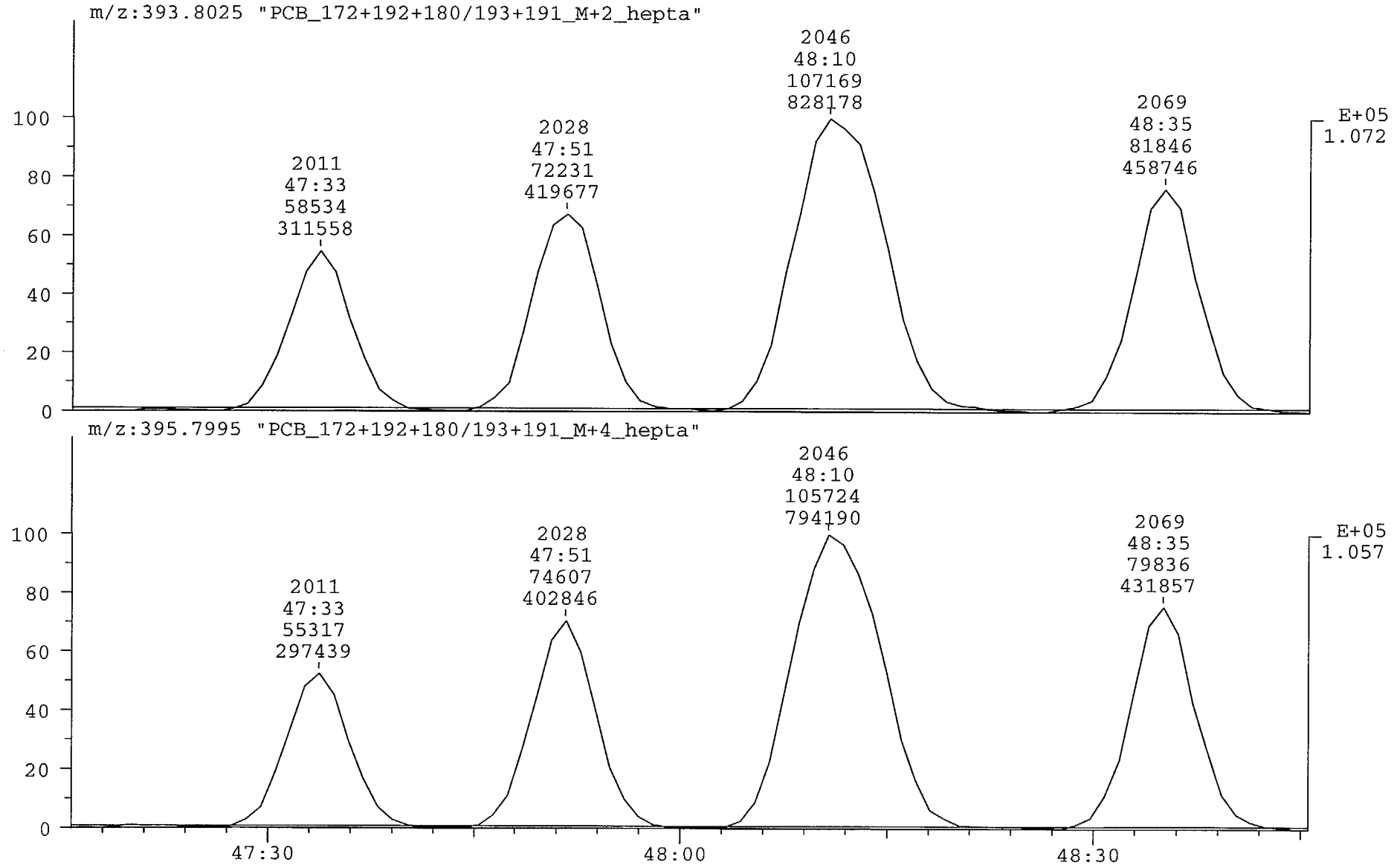
```
CHRO:  aph2w5kl                              25-Apr-06   Elapse:   58:37      2635
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                Start :   12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                        Study :   6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L             Inlet :   GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1821 > 1871        Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 7             Label :   -3, 3.0
Disp:  Height  Area
```



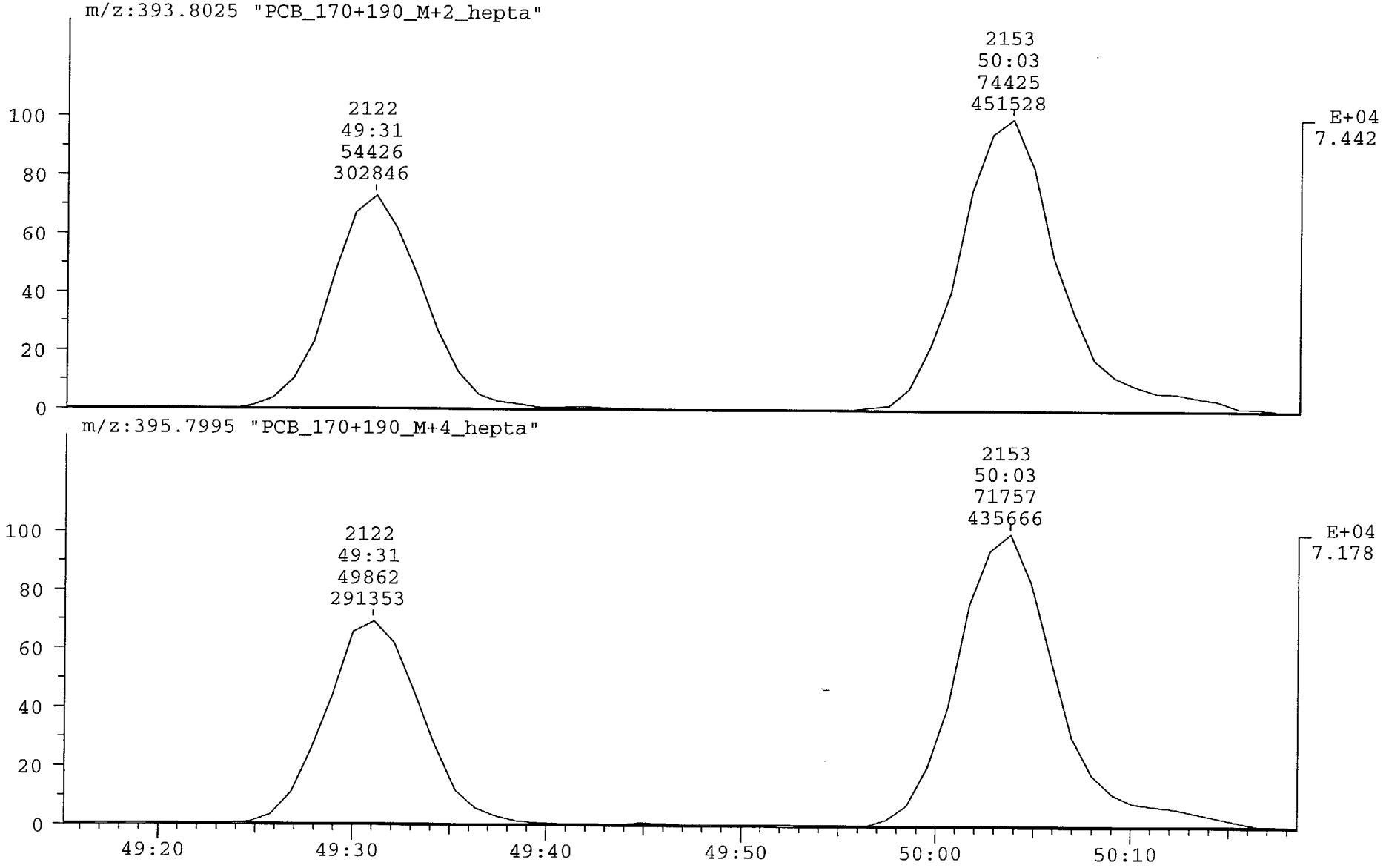
CHRO: aph2w5k1 25-Apr-06 Elapse: 45:40 1904
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1866 > 1929 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



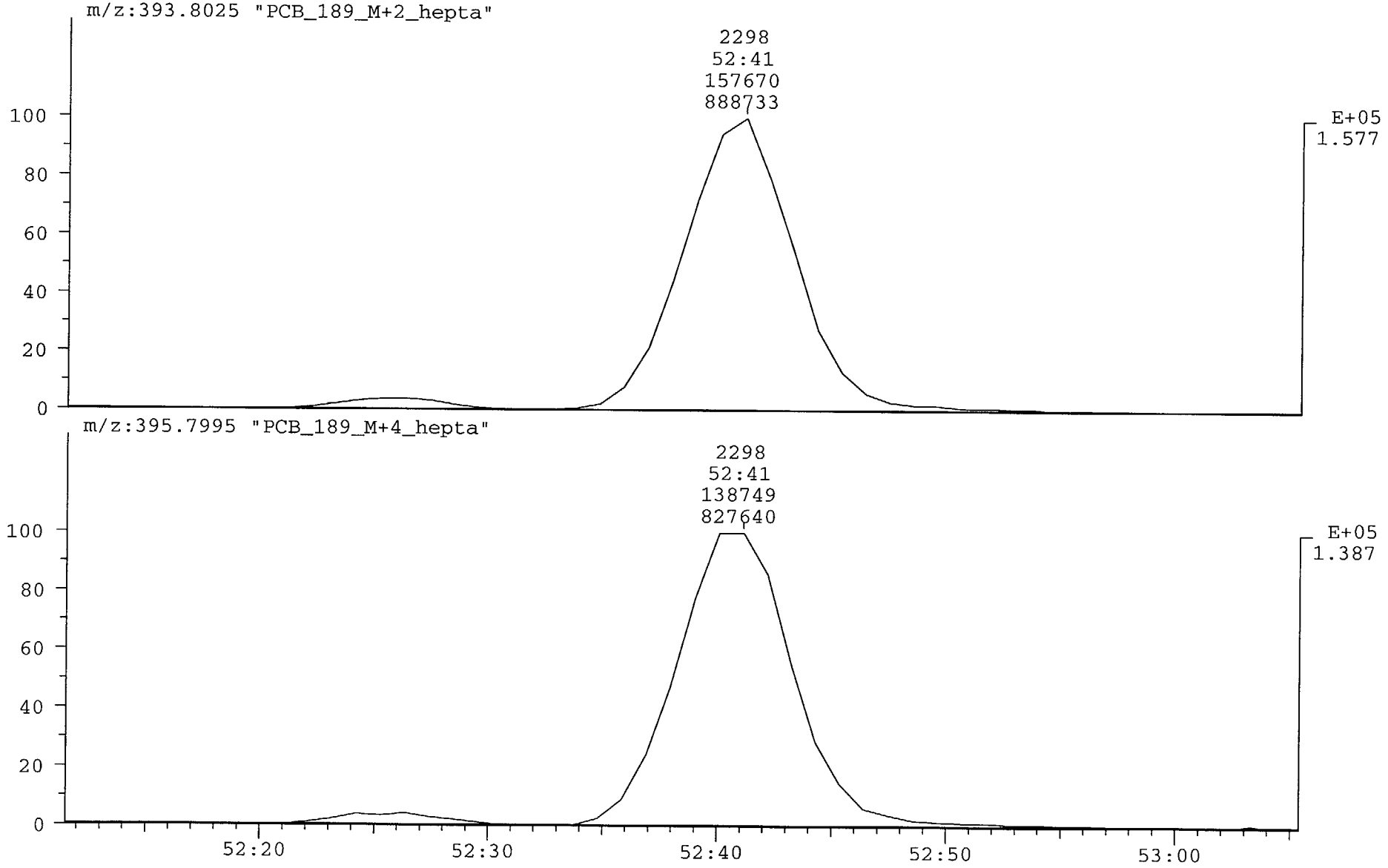
CHRO: aph2w5k1 25-Apr-06 Elapse: 48:08 2044
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1994 > 2079 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



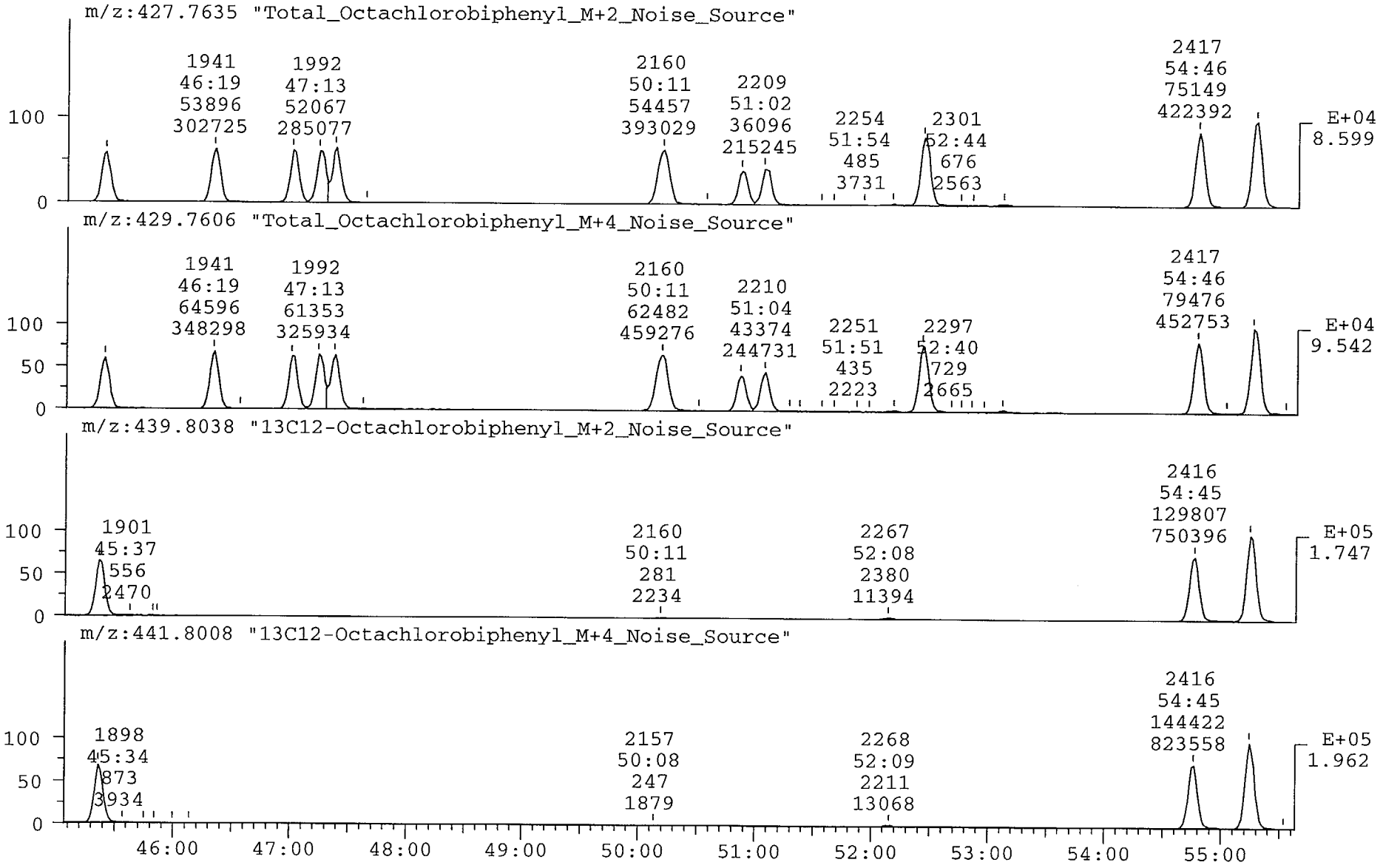
CHRO: aph2w5k1 25-Apr-06 Elapse: 49:46 2137
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2107 > 2167 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



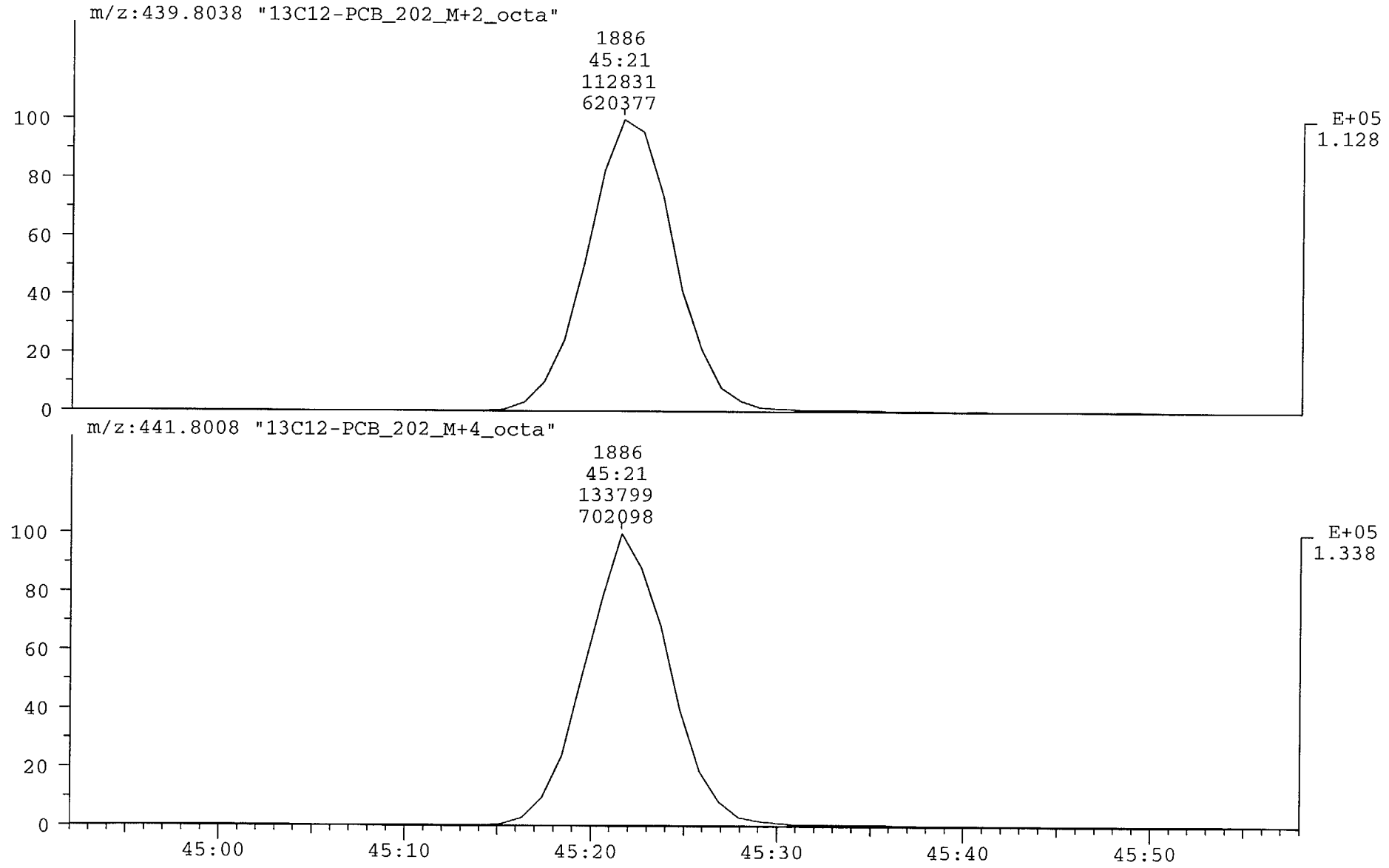
CHRO: aph2w5k1 25-Apr-06 Elapse: 52:36 2294
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2270 > 2321 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



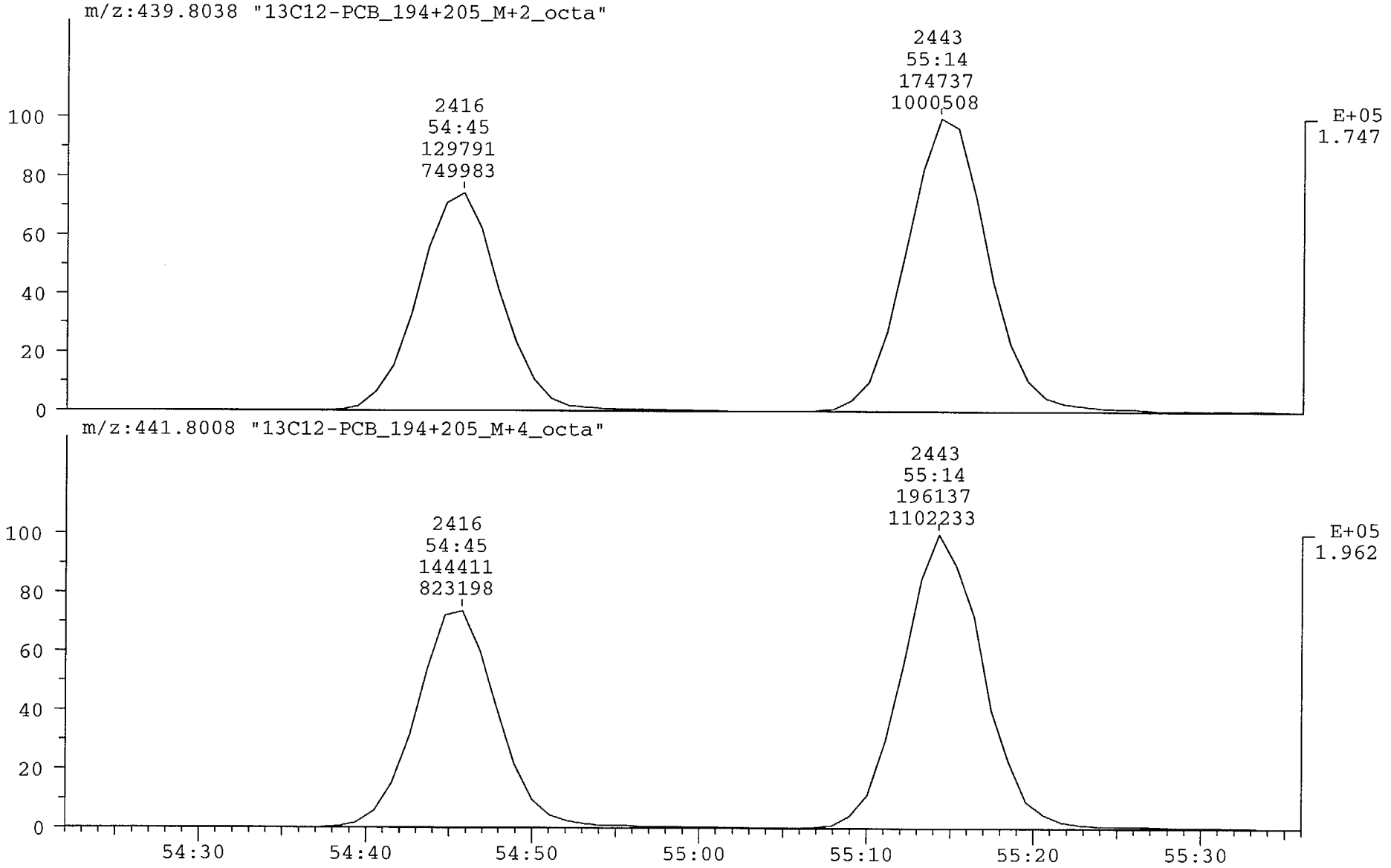
CHRO: aph2w5k1 25-Apr-06 Elapse: 50:20 2169
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1869 > 2465 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



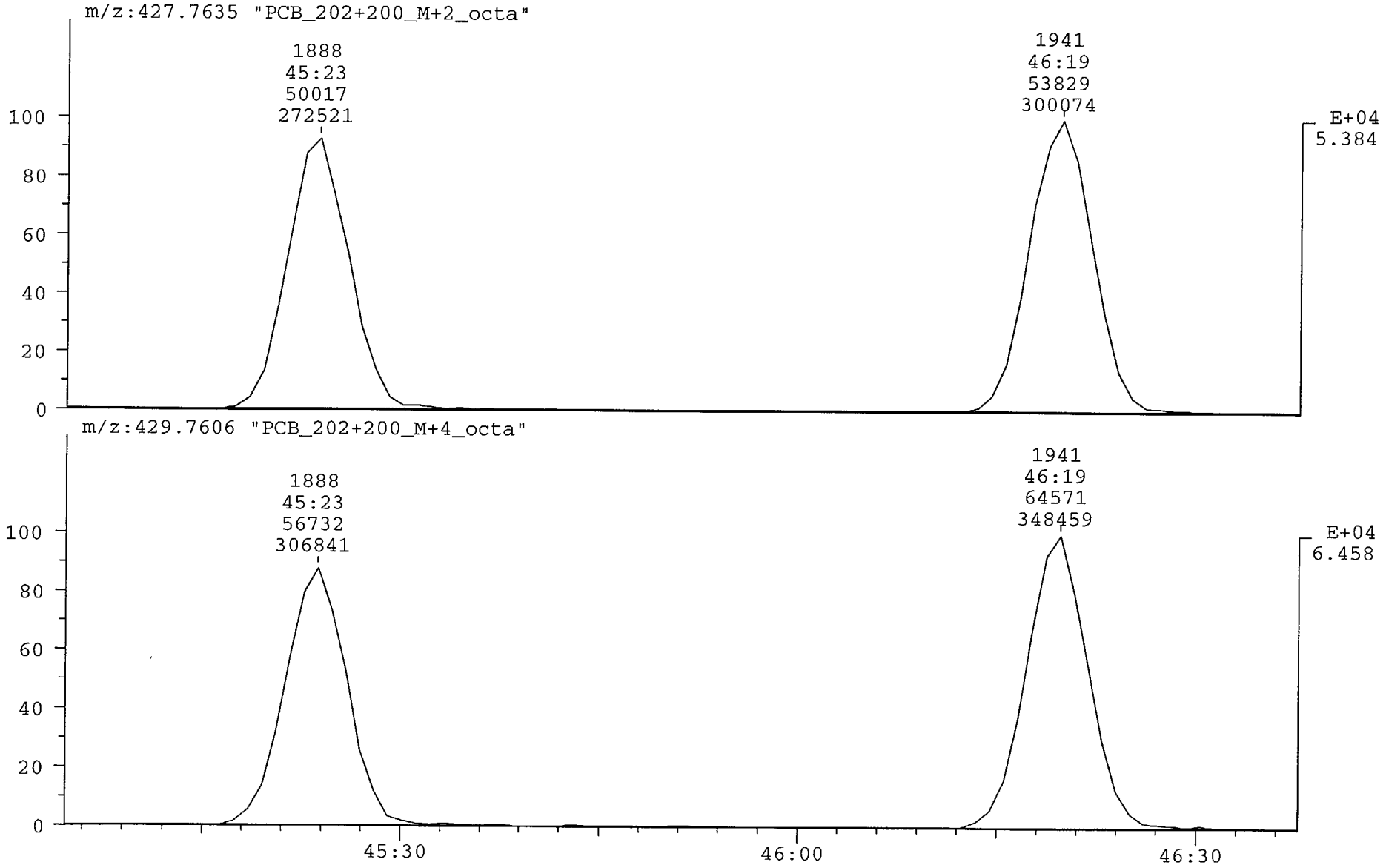
CHRO: aph2w5kl 25-Apr-06 Elapse: 45:21 1886
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1858 > 1920 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



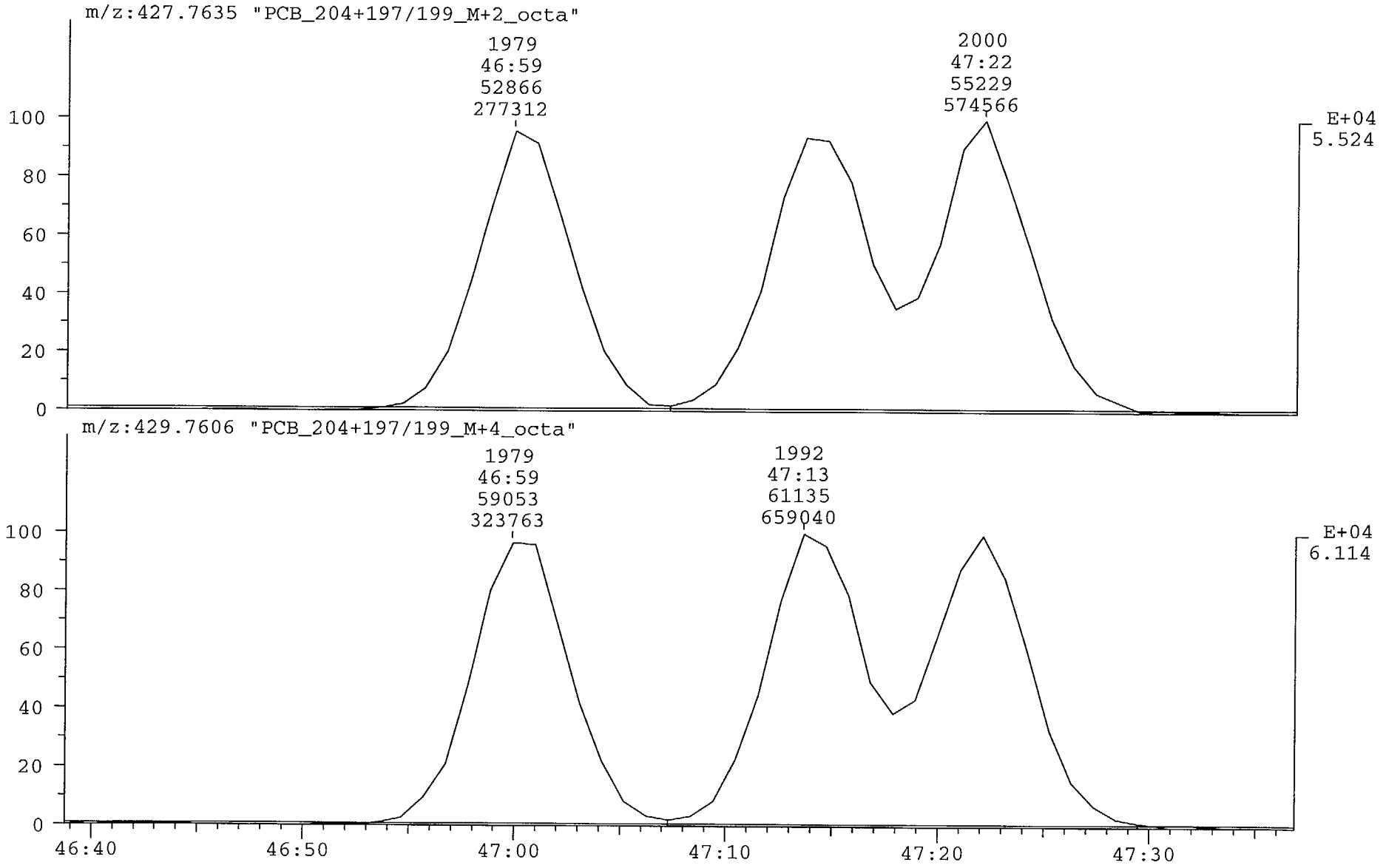
CHRO: aph2w5k1 25-Apr-06 Elapse: 54:59 2429
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2394 > 2464 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



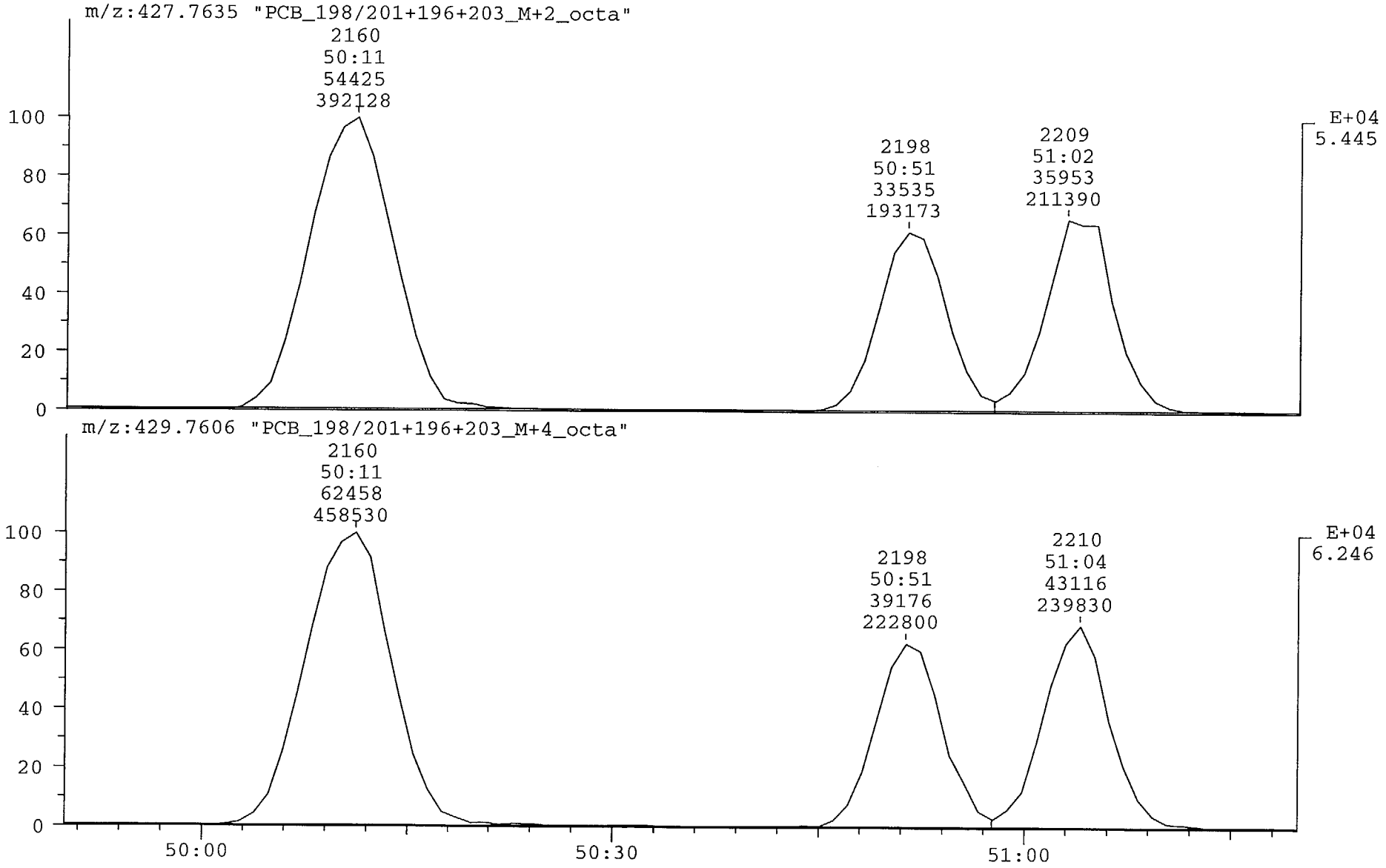
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  45:55      1918
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L               Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1870 > 1958          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



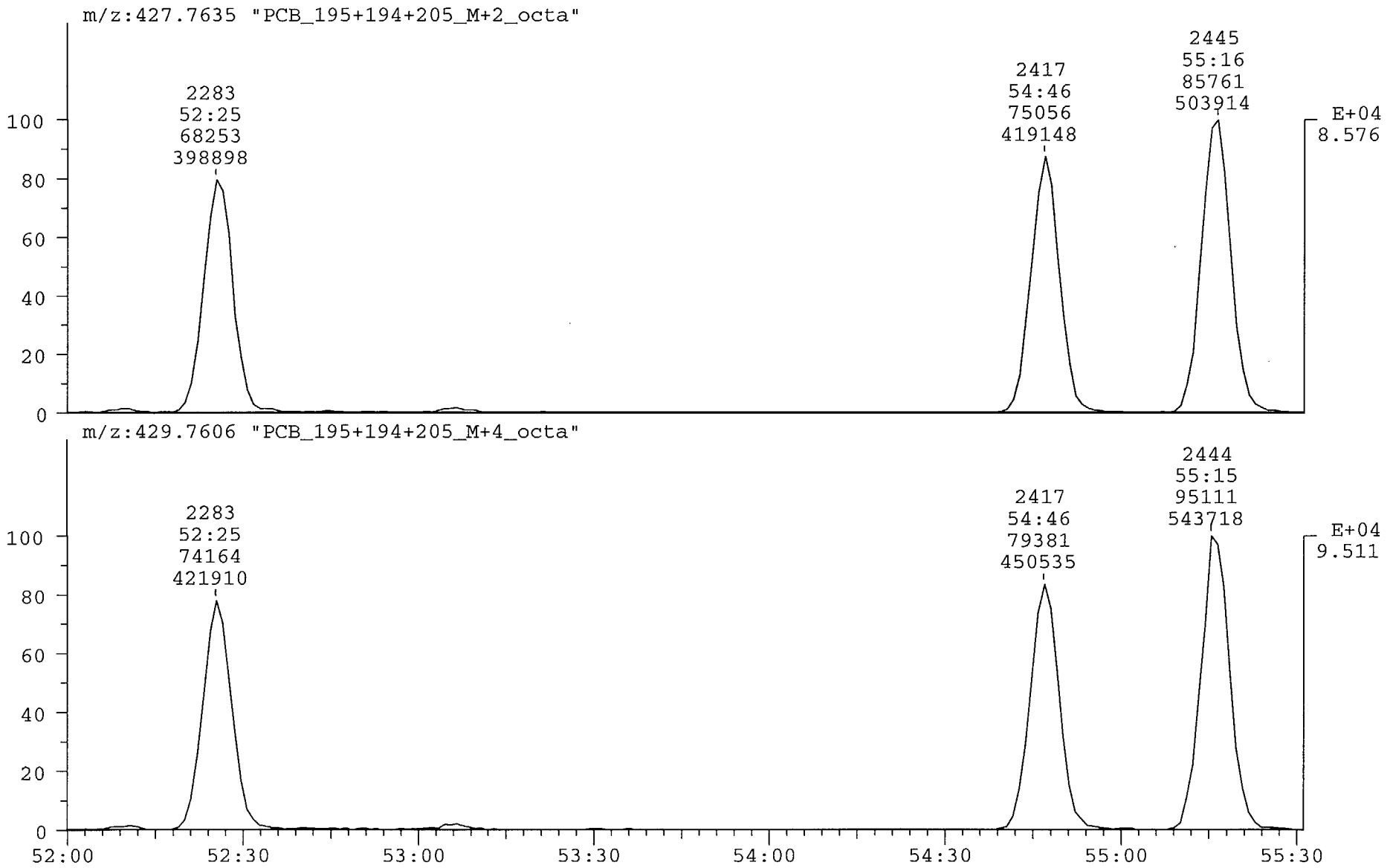
CHRO: aph2w5k1 25-Apr-06 Elapse: 46:59 1979
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 1959 > 2014 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 9 Label : -3, 3.0
Disp: Height Area



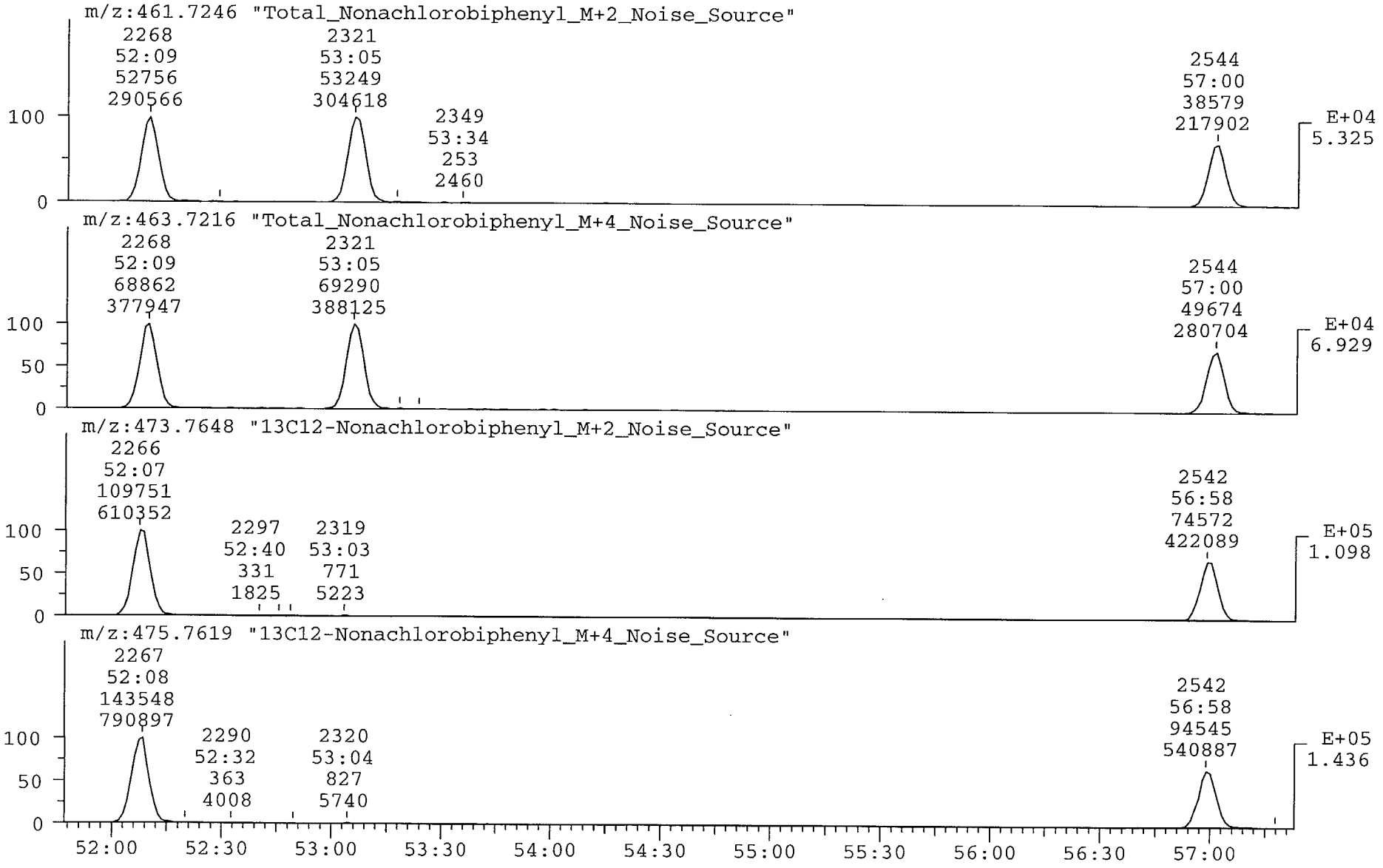
CHRO: aph2w5k1 25-Apr-06 Elapse: 50:50 2197
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2140 > 2225 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



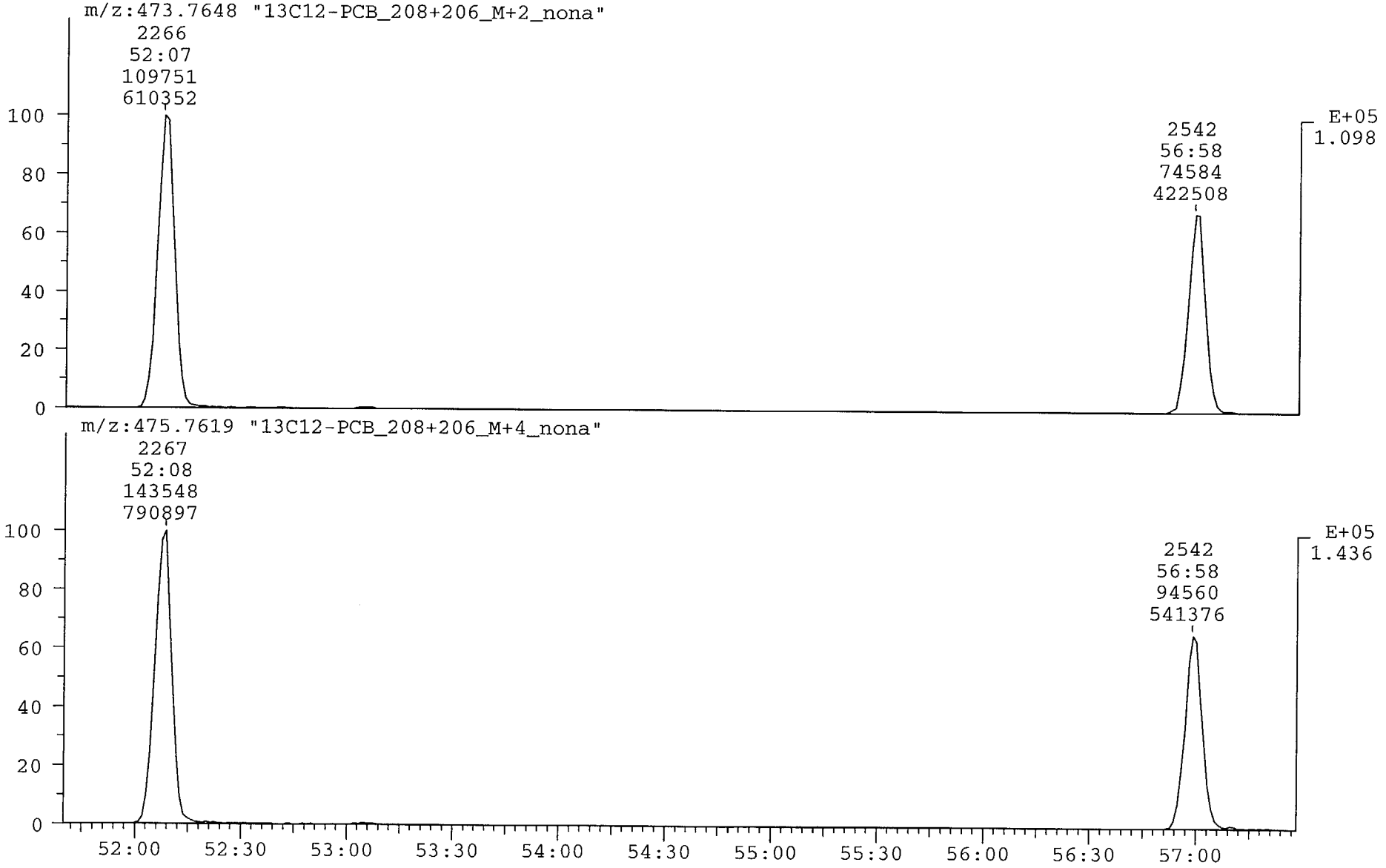
CHRO: aph2w5k1 25-Apr-06 Elapse: 54:43 2414
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2259 > 2459 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



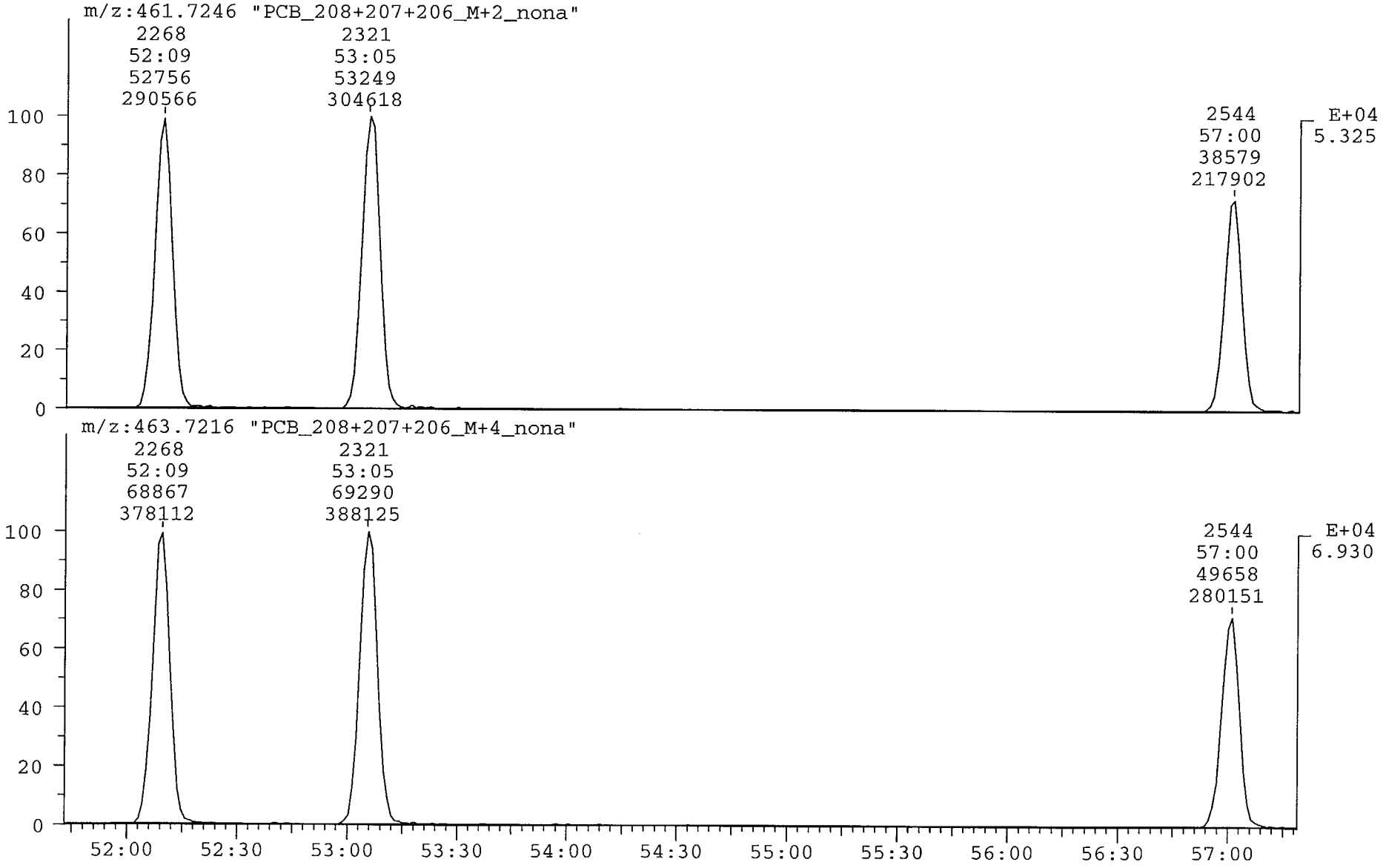
CHRO: aph2w5k1 25-Apr-06 Elapse: 54:35 2406
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2247 > 2565 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



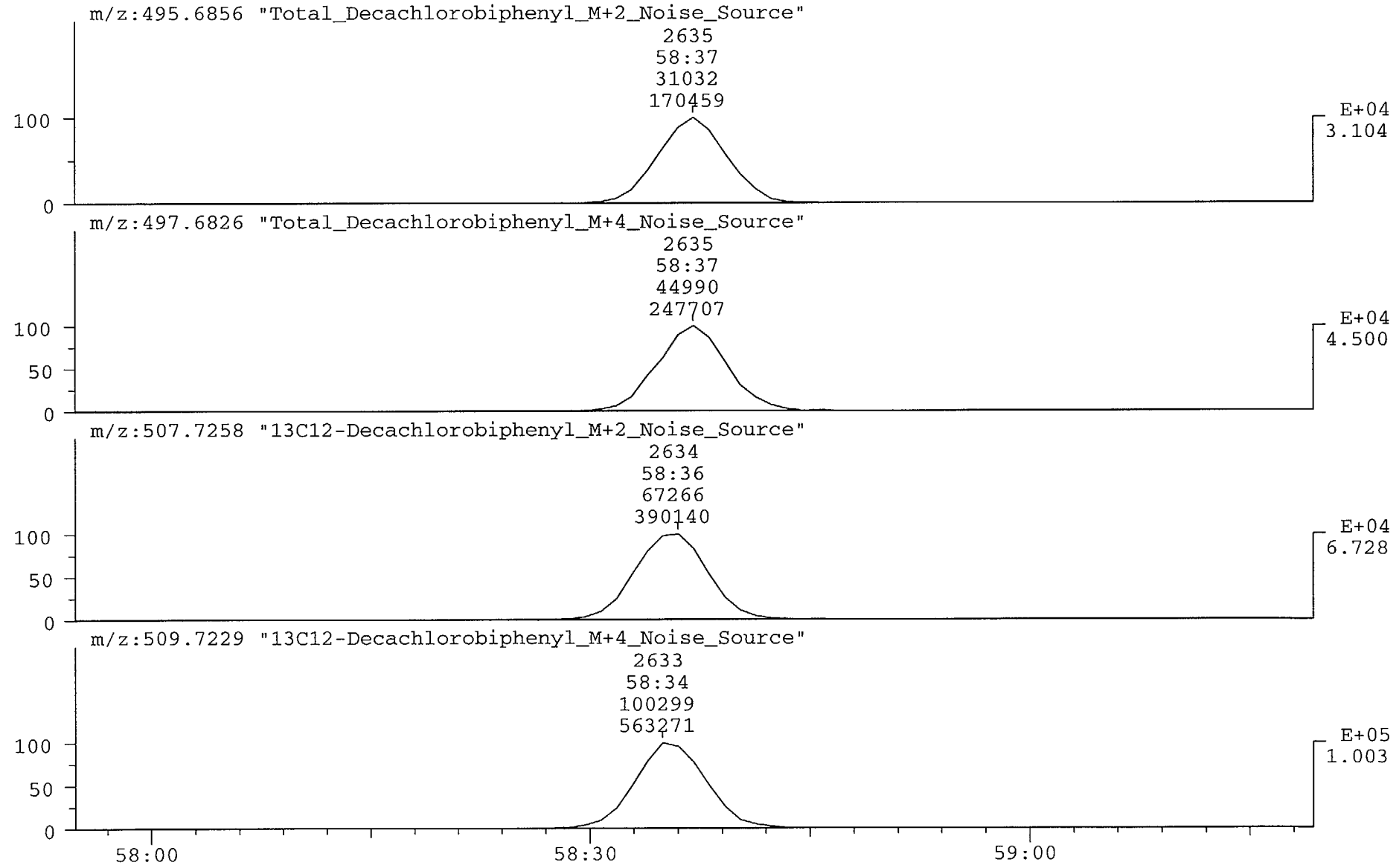
CHRO: aph2w5k1 25-Apr-06 Elapse: 54:34 2405
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2240 > 2570 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



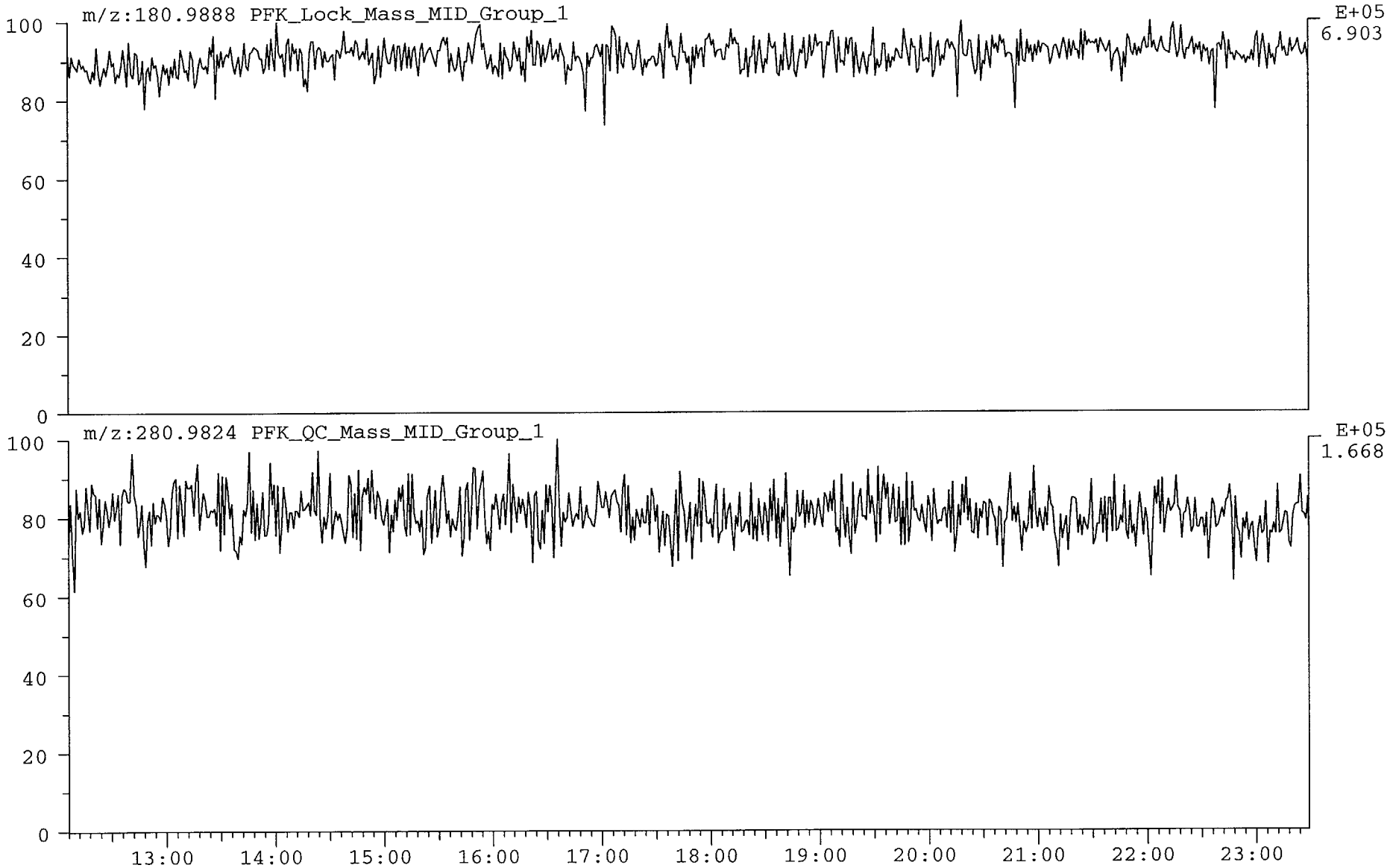
CHRO: aph2w5k1 25-Apr-06 Elapse: 54:35 2406
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2243 > 2561 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



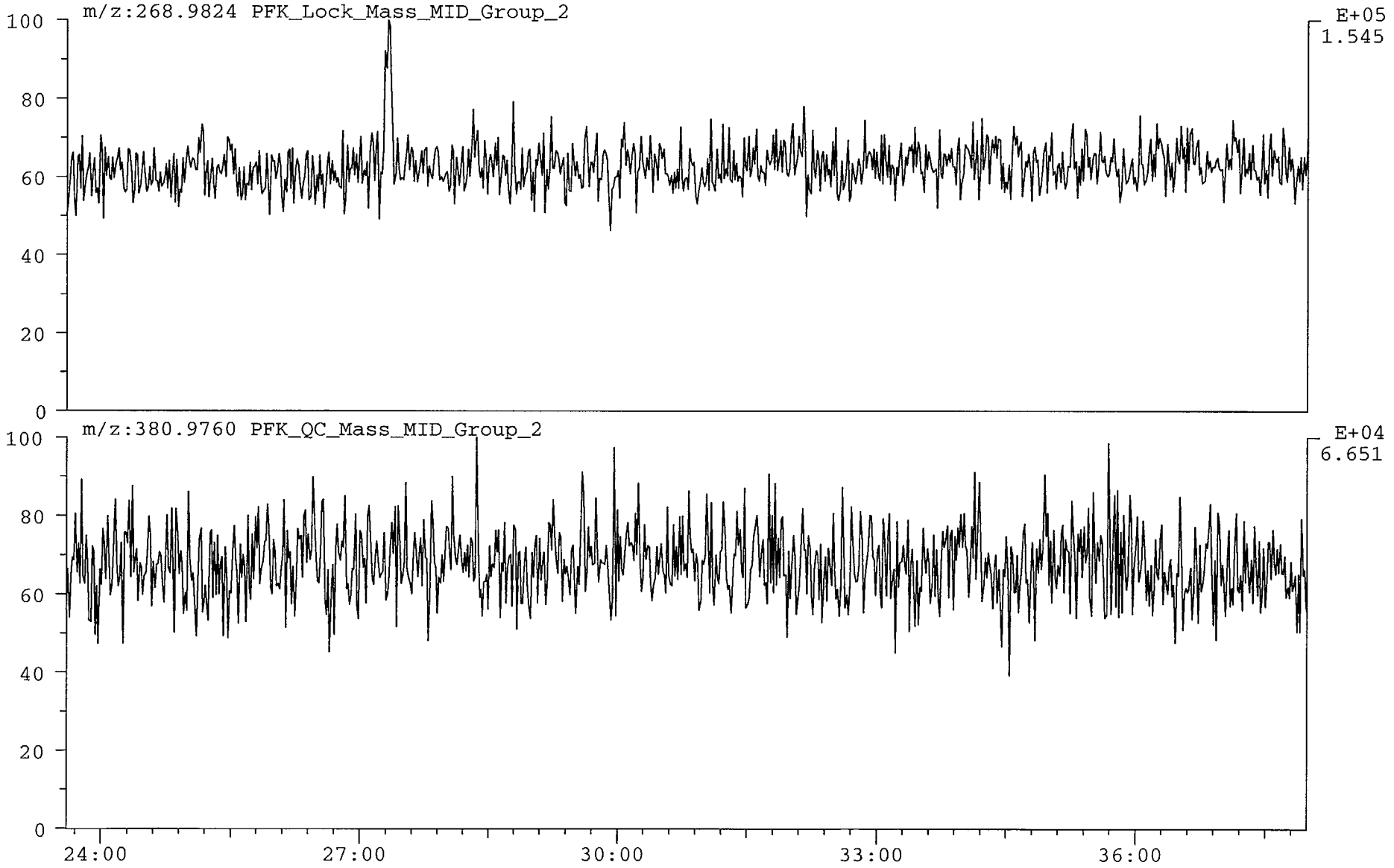
CHRO: aph2w5k1 25-Apr-06 Elapse: 58:37 2635
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 2595 > 2675 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



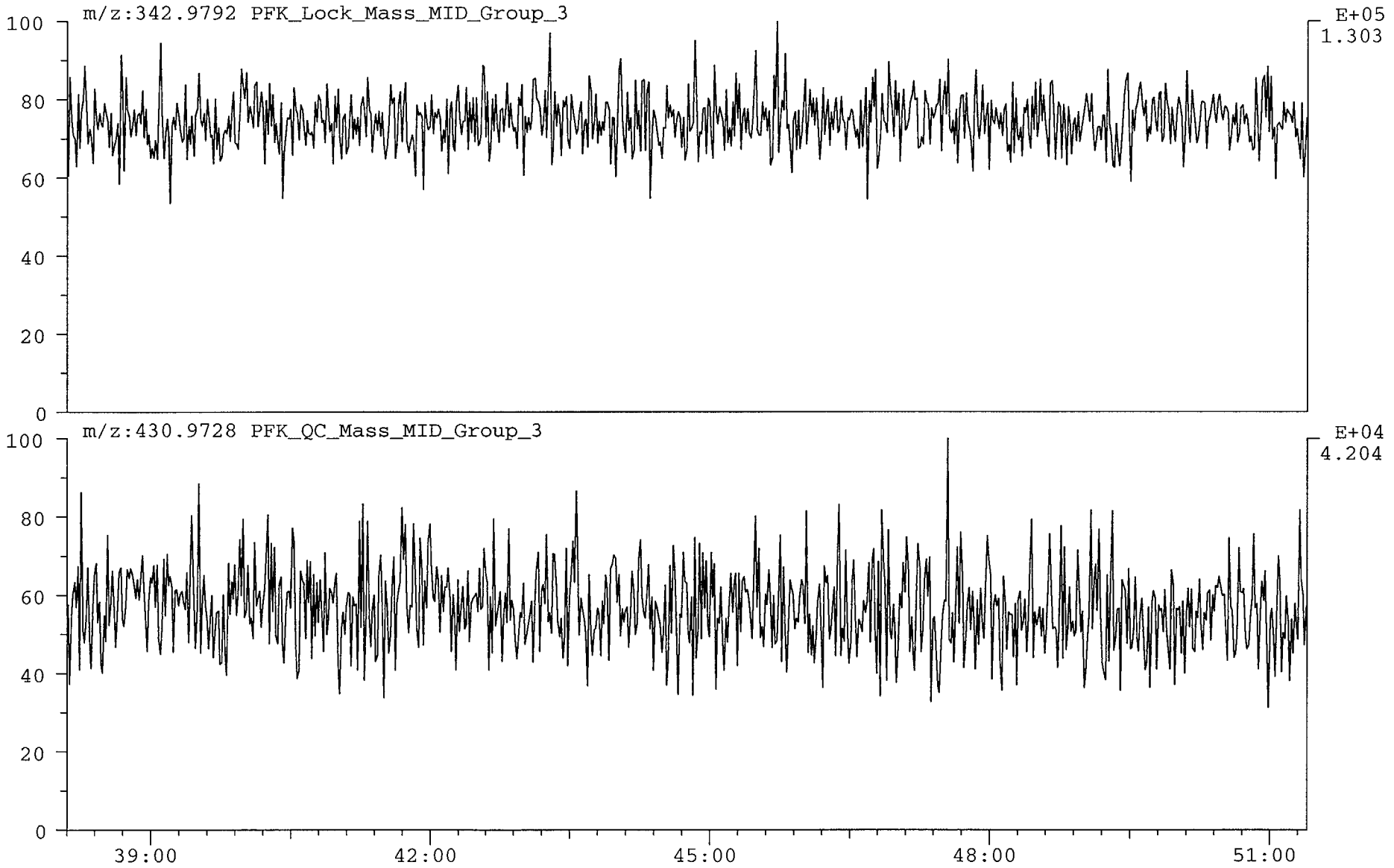
CHRO: aph2w5k1 25-Apr-06 Elapse: 58:37 2635
Samp: Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1 Start : 12:58:17 2715
Comm: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode: EI +VE +LMR ESCAN LR NRM Study : 6100050 (Air-2)
Oper: BFW Client: H6D100000-050L Inlet : GC Vial 57
Peak: 100.00 ppm Label wndw: 6 > 653 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



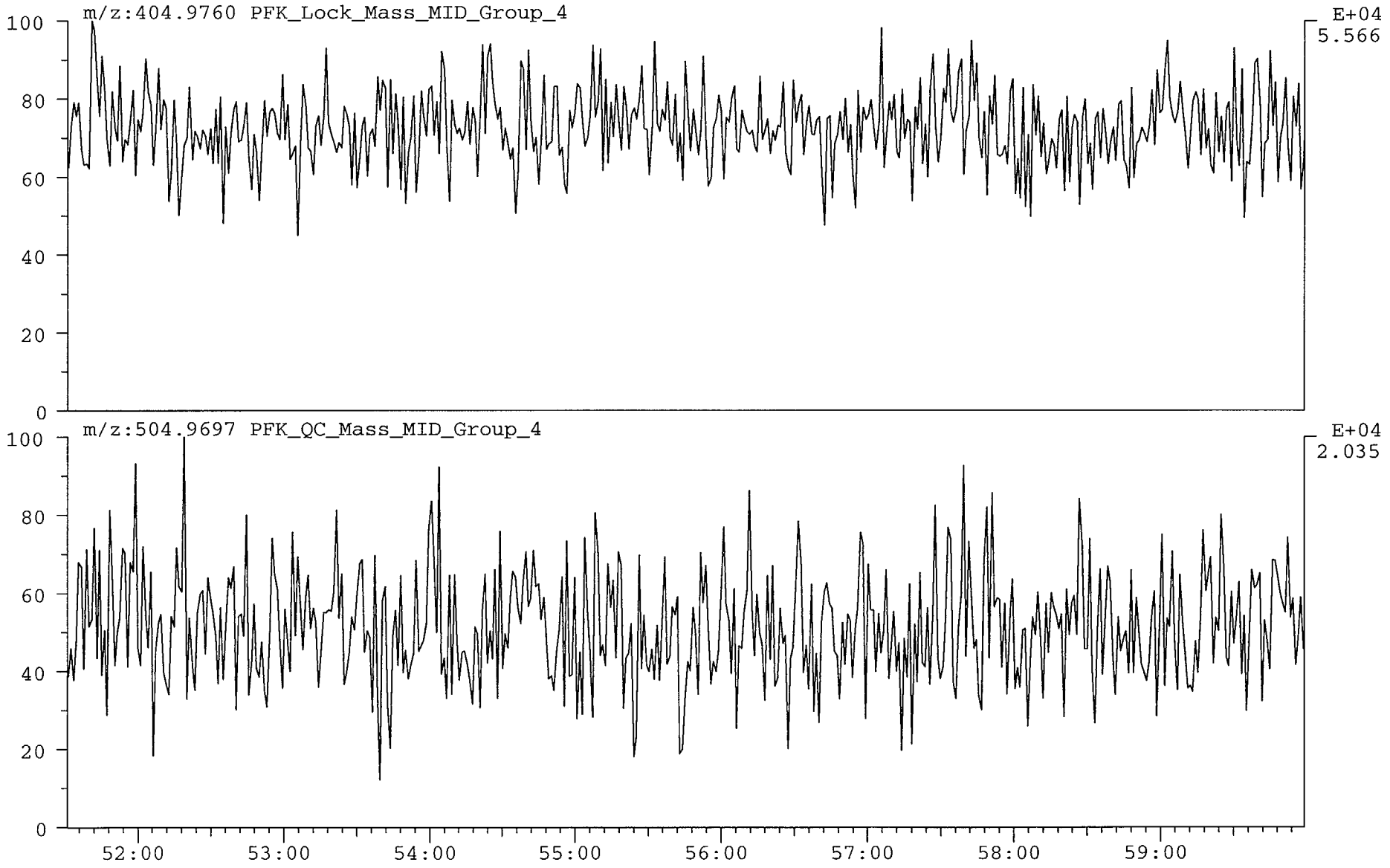
```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:  58:37      2635
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :  12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L              Inlet :  GC     Vial  57
Peak:  100.00  ppm     Label wndw:   655 > 1472           Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  0, 0.0
Disp:  Height  Area
```



```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:   58:37      2635
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :   12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :   6100050 (Air-2)
Oper:  BFW          Client:  H6D100000-050L               Inlet :   GC     Vial  57
Peak:  100.00  ppm     Label wndw:   1475 > 2229          Masses:   181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   0, 0.0
Disp:  Height  Area
```



```
CHRO:  aph2w5k1                                25-Apr-06   Elapse:   58:37      2635
Samp:  Vial 57 WO=h2w5k1ad Meth=IE5 Dil=1                  Start :   12:58:17   2715
Comm:  Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :   6100050 (Air-2)
Oper:  BFW           Client:  H6D100000-050L              Inlet :   GC     Vial  57
Peak:  100.00  ppm     Label wndw:   2232 > 2713          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: aph2w5k1
Study: 6100050 (Air-2)
Sample: WO=h2w5k1ad Meth=IE5 Dil=1
Amount: 0.00
Volume: 0.00
Operator: BFW
Client: H6D100000-050L
Comments: Inst=m1d/137819-2 Batch=20060425s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 57
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 2 of list 060425
ICL procedure: sleep7x
MID procedure: 1668_rev3

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	12:00 min	11:30 min	23:30 min	1.00 sec
# 2	23:30 min	14:30 min	38:00 min	1.00 sec
# 3	38:00 min	13:25 min	51:25 min	1.00 sec
# 4	51:25 min	8:35 min	60:00 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
                    280 deg at   59.0 minutes
                    280 deg at   60.0 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     1.2 ml
  Stabilize time   0.5 minutes


ICL Parameters

 BCORRL          0.0150    BCORRS          0.0110    BCURR       16383.0000
 BDEV        16383.0000    BFM             2.0000    BLM          1033.9955
 BMASS         192.9888    BQUAD           0.0000    CAPIL           0.0000
 CAPTEMP       359.9988    CAPTSET       200.0000    CCURR           3.6706
 CORONA          0.0000    CYCLE           0.0000    DELAY           0.0000
 DITEMP          0.0000    DITSET          0.0000    DRAW          -27.8000
 DRAWC           1.0000    DRAWS           0.0050    ECORR           1.0005
 ECURR           1.0000    EDAC      7969177.0000    EDACG           1.0000
 EDACR          23.0000    EDACZ           0.0000    ELEN           62.0250
 EMULT           1.4500    ENS           188.0000    ERATIO          1.0000
 ESA           763.8000    ESICUR         10.0011    ESIPAR          0.0000
 EXS           148.0000    FDMA     18000000.0000    FLENS           1.0000
 FM             20.0000    FMII           50.0000    FQUAD           0.0000
 FREQ          600.9615    FSLOPE   54000000.0000    FVANAL        280.0000
 FVINLET       279.0000    FVSRC         882.0000    FWIN            0.7000
 GCTC          213.0000    GCTI          270.0000    GCTL          280.0000
 HACCU         156.0000    HCURR           1.2549    HVANAL       1374.0000
 HVSRC           0.0000    ICAL0           0.0011    ICAL1           0.4030
 ICAL2           0.5865    IONEN        4774.1100    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         1700.0000    LENSS          26.6000
 LKM           192.9888    LM            800.0000    LMASS         192.9888
 LMII          500.0000    MASS          192.9888    MDAC      2480998.5918
```

MDACR	23.0000	MRANGE	1033.9955	MSFM	2.0000
MSLM	3790.0000	NPEAK	200.0000	NSAM	200.0000
NSCAN	1799.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0750
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10106.2978	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	2.0000	SCIDLE	1.0000	SHIELD	2623.0000
SHIELDS	0.4000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	421.0500	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	2.2250	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	192.9888	XLENS	2601.0000
XLENSS	-7.4000	YLENS	3287.0000	YLENSS	-58.4000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 25-Apr-06 12:58:17.8

Autosampler has injected sample from vial 57
MID Time Window 1: Resolution is 8227
MID Time Window 2: Resolution is 7911
MID Time Window 3: Resolution is 8165
MID Time Window 4: Resolution is 9203
Analysis stopped at: 25-Apr-06 13:58:21.3 (run time 60.04 minutes)
Analysis stopped because MID run finished

Miscellaneous Data

STL Knoxville Specialty Organics Group GC/MS Data Review / Narrative Checklist LOT # H6D0303426

SOP Number: KNOX-ID-0013 Revision 4

Batch Number:	6100845

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.,* **surr***):* Sample / Reason / Sample / Reason 011 — int std ↓ — high ↓ 015 — ↓			✓	☐* **[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?		✓			✓

* *Such action must be taken in consultation with client.*

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:* H2W561AA			✓	☐ 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:* 1	✓			☐ 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: VMC	Date: 4/19/06	Analyst: DCG	Date: 4/27/06
Comments:		Comments:	
011 > 3CRCS 209 high.			
015 / See Attached Sheet			

* *Such action* must be taken in consultation with client.

STL Knoxville **Specialty Organics Prep Batch Review/Checklist** **Batch #** 6100495

☐ KNOX-ID-0004, rev. 6 (PCDD/F extraction) ☒ KNOX-ID-0012, rev. 1 (Air Train extraction) ☒ KNOX-ID-0013, rev. 4 (PCB extraction) ☐ KNOX-ID-0016, rev. 3 (LR-SIM PAH extraction) ☐ KNOX-ID-0017, rev. 1 (filters & XAD)

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: CK	**Date:** 4/17/06	**2nd Level Reviewer :**	**Date:** ALS 4/17/06
Comments:		**Comments:**	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/17/06
Time: 12:12:49

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: 013451 Susan D. Oxendine
400856 Alan Sudderth

Concentrationist: 004403 Cornelia Apahidean

QC BATCH: 6100045

PREP DATE: 4/10/06 15:00
COMP DATE: 4/17/06 14:00

Reviewer/Date: APAHIDEC / 4/17/06

PCBs, HRGC/HRMS (1668A)
SOXHLET (NOMINAL), Airtrains: Filter/Rinse

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
4/27/06	4/24/06	H6D030241-001 **H2H2A-1-AC**	D	IN	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:		3 R1													
4/28/06	4/24/06	H6D030241-004 **H2H2V-1-AC**	D	IN	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:		4 R2													
4/27/06	4/24/06	H6D030241-007 **H2H20-1-AC**	D	IN	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:		5 BT													
4/29/06	4/24/06	H6D030241-011 **H2H24-1-AC**	D	IN	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:		6 R3													
4/27/06	4/24/06	H6D030241-015 **H2H28-1-AC**	D	IN	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:		7 medV													
4/27/06	0/00/00	H6D100000-045 **H2W5G-1-AAB**		IN	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:		8													
4/27/06	0/00/00	H6D100000-045 **H2W5G-1-ACC**		IN	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:01,2.0ML,NATIVE 3261:19,2.0ML,C13
COMMENTS:		9													

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/17/06
Time: 12:12:49

QC BATCH: 6100045

PREP DATE: 4/10/06 15:00
COMP DATE: 4/17/06 14:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/27/06	0/00/00	H6D100000-045 **H2W5G-1-ADL**	R	IN	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:01,2.0ML,NATIVE 3261:19,2.0ML,C13

COMMENTS: 10

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 8

3430

STL Knoxville

Specialty Organics Group - PCB Sample Tracking Sheet - GC/MS Analysis Group

QC Batch No 6100045 Relinquished to GC/MS By: CS Date: 4/17/06

Received in GC/MS By: B. Wagner Date: 4/17/06

Work Order Number		Column: SPB-Octyl				Column: SPB-Octyl				Column: SPB-Octyl			
		Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code
H2H2A1AC		4/18/06	MS745	PMP	OK								
H2H2V1AC		↓	↓	↓	OK								
H2H201AC		↓	↓	↓	OK								
H2H241AC		↓	↓	↓	OK								
H2H281AC		↓	↓	↓	OK								
H2W5G1AA	B	4/18/06	MS745	PMP	OK								
H2W5G1AC	C	↓	↓	↓	OK								
H2W5G1AD	L	↓	↓	↓	OK								

Comments: _____

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - GC/MS Analysis Group

QC Batch #: 6100045

Lot Numbers in this Batch:

H6D030241
H6D100000

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100045

Internal Std. Spiked By: SDO **Verified By:** ALS **Date:** 4/10/06

Native LCS/D Spiked By: SDO **Verified By:** ALS **Date:** 4/10/06

Native MS/D Spiked By: NA **Verified By:** NA **Date:** 4/10/06

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
H2H2A1AC		N	NA	4/10/06 15:00	4/11/06 8:30	CA MS 4/17/06	3261:17	100 uL	100 uL	
H2H2V1AC		↓	↓	↓	↓	↓	↓	↓	↓	
H2H201AC		↓	↓	↓	↓	↓	↓	↓	↓	
H2H241AC		↓	↓	↓	↓	↓	↓	↓	↓	
H2H281AC		↓	↓	↓	↓	↓	↓	↓	↓	
H2W5G1AA	B	↓	↓	↓	↓	↓	↓	↓	↓	
H2W5G1AC	C	↓	↓	↓	↓	↓	↓	↓	↓	
H2W5G1AD	L	↓	↓	↓	↓	↓	↓	↓	↓	

Comments:

Volume of Alt Standard: NA

Split Ratios: Post I.S. 0.50

Post F.C. NA

Post C.S. ↓

Post R.S. ↓

Blk Matrix: GF Filter W.B. Temp NA

3433

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100045 **Cleanup Std. Spiked By:** SA **Verified By:** PMP Date: 4-14-06

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
H2H2A1AC		3261:13	1000				SA 4-14-06				
H2H2V1AC											
H2H201AC											
H2H241AC											
H2H281AC											
H2W5G1AA	B										
H2W5G1AC	C										
H2W5G1AD	L										

Comments:

3434

STL Knoxville

HR PCBs Solution Concentrations

PCB congener	IUPAC[1]	Spike Solution ID: (Book: pg. No.) Concentration
All 209 Native PCB Congeners	**All**	NA 1.0 ng/mL 3261:01 5.0 ng/mL
Labeled Internal Standards	**IUPAC**	**Spike Solution ID: (Book: pg. No.) Concentration**
$^{13}C_{12}$-2-chlorobiphenyl	1L	NA 2.0 ng/mL 3261:19 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	3261:17 100 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 3261:13 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	NA 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.

STL Knoxville Specialty Organics Group GC/MS Data Review / Narrative Checklist LOT # H6D0362491 3436
SOP Number: KNOX-ID-0013 Revision 4

Batch Number:	6100047

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 002 / 005 / 008 / 010 / 012 / 014			✓	☐ * **[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?		✓			

* Such action must be taken in consultation with client.

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:* H2W5J1AA		•	✓	☐ * 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:* H2W5J1AA		•	✓	☐ 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: VMK	Date: 4/20/06	Analyst: DCS	Date: 4/22/06
Comments:		Comments:	

STL Knoxville **Specialty Organics Prep Batch Review/Checklist** **Batch #** 6100047

☐ KNOX-ID-0004, rev. 6 (PCDD/F extraction) ☒ KNOX-ID-0012, rev. 1 (Air Train extraction) ☒ KNOX-ID-0013, rev. 4 (PCB extraction) ☐ KNOX-ID-0016, rev. 3 (LR-SIM PAH extraction) ☐ KNOX-ID-0017, rev. 1 (filters & XAD)

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: LA	Date: 4/17/06	2nd Level Reviewer : AW	Date: 4/17/06
Comments:		**Comments:**	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/17/06
Time: 12:09:49

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: 013451 Susan D. Oxendine
044305 David R. McNeil

Concentrationist: 004403 Cornelia Apahidean

****
* *
* QC BATCH: 6100047 *
* *
****

PREP DATE: 4/10/06 16:30
COMP DATE: 4/17/06 14:00

Reviewer/Date: APAHIDEC / 4/17/06

PCBs, HRGC/HRMS (1668A)
SOXHLET (NOMINAL), Airtrains: XAD/Rinse

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
4/27/06	4/24/06	H6D030241-002 H2H2M-1-AC 6	D	IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:															
4/28/06	4/24/06	H6D030241-005 H2H2W-1-AC 7	D	IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:															
4/27/06	4/24/06	H6D030241-008 H2H21-1-AC 8	D	IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:															
4/29/06	4/24/06	H6D030241-010 H2H23-1-AC 9	D	IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:															
4/29/06	4/24/06	H6D030241-012 H2H25-1-AC 10	D	IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:															
4/27/06	4/24/06	H6D030241-014 H2H27-1-AC 11	D	IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:															
4/27/06	0/00/00	H6D100000-047 H2W5J-1-AAB 3		IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:19,2.0ML,C13
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/17/06
Time: 12:09:49

QC BATCH: 6100047

PREP DATE: 4/10/06 16:30
COMP DATE: 4/17/06 14:00

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
4/27/06	0/00/00	H6D100000-047 **H2W5J-1-ACC** 4		IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:01,2.0ML,NATIVE 3261:19,2.0ML,C13
COMMENTS:															
4/27/06	0/00/00	H6D100000-047 **H2W5J-1-ADL** 5	R	IO	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:01,2.0ML,NATIVE 3261:19,2.0ML,C13
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 9

STL Knoxville

Specialty Organics Group - PCB Sample Tracking Sheet - GC/MS Analysis Group

QC Batch No 6100047 Relinquished to GC/MS By: _____ Date: 4/17/06

Received in GC/MS By: B. Wagner Date: 4/17/06

Work Order Number		Column: SPB-Octyl				Column: SPB-Octyl				Column: SPB-Octyl			
		Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code
H2H2M1AC R1		4/18/06	MPTAS	DCS	CF	4-19-06	MPTAS	PMD	OK				
H2H2W1AC R2		↓	↓	↓	CF	↓	↓	↓	OK				
H2H211AC BT					CF				OK				
H2H231AC TB					CF				OK				
H2H251AC R3					DR				OK				
H2H271AC Med					DR				OK				
H2W5J1AA	B				CF	↓	↓	↓	OK				
H2W5J1AC	C				OK								
H2W5J1AD	L	↓	↓	↓	OK								

Comments: _____

3441

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - GC/MS Analysis Group

QC Batch #: 6100047

Lot Numbers in this Batch:

H6D030241
H6D100000

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100047

Internal Std. Spiked By: SDO **Verified By:** [illegible] **Date:** 4-20-06

Native LCS/D Spiked By: SDO **Verified By:** [illegible] **Date:** 4-20-06

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
H2H2M1AC		N	200 uL	4/10/06 16:30	4/11/06 8:30	4/17/06 AES	326 : 17	100 uL	100 uL	
H2H2W1AC		↓	↓	↓	↓	↓	↓	↓	↓	
H2H211AC										
H2H231AC										
H2H251AC										
H2H271AC										
H2W5J1AA	B									
H2W5J1AC	C									
H2W5J1AD	L			↓	↓	↓	↓	↓	↓	

Comments:

Volume of Alt Standard: NA

Split Ratios: Post I.S. 0.50

Post F.C. NA

Post C.S. ↓

Post R.S. ↓

Blk Matrix: XAD W.B. Temp NA

3443

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100047 **Cleanup Std. Spiked By:** SA **Verified By:** RMP Date: 4-14-06

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
H2H2M1AC		326I:13	1000				SA 4-14-06				
H2H2W1AC		↓	↓				↓				
H2H211AC											
H2H231AC											
H2H251AC											
H2H271AC											
H2W5J1AA	B										
H2W5J1AC	C										
H2W5J1AD	L	↓	↓				↓				

Comments: _____

3444

STL Knoxville
HR PCBs Solution Concentrations

PCB congener	IUPAC[1]	Spike Solution ID: (Book: pg. No.) Concentration
All 209 Native PCB Congeners	**All**	NA 1.0 ng/mL 3261:01 5.0 ng/mL
Labeled Internal Standards	**IUPAC**	**Spike Solution ID: (Book: pg. No.) Concentration**
$^{13}C_{12}$-2-chlorobiphenyl	1L	NA 2.0 ng/mL 3261:19 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	3261:17 100 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 3261:13 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	2990:80 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.

XAD Source Samplin_ Media Request Form

SEVERN TRENT STL

STL Knoxville
5815 Middlebrook Pike
Knoxville, TN 37921
865-291-3000

Form Number: 031706-3

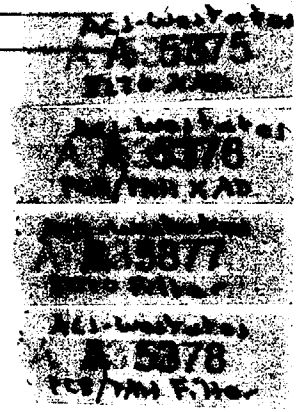
-scan completed document and save on the public drive under Media/PDFs; filename should be the form number. **Send a copy to PM.**

Date of Request: March 17, 2006
Company: ACS
Client Project: Westates Carbon CPT
Client PO#:

Rush Order? No
Quantims Quote: TBD
Media Needed By: 3/22/2006
Project Manager: Kevin Woodcock

Quantity	Media Type	Spiked for Method	Media Check ID
6	Spiked XAD	8270C, Pests. Supelco Lot 2010	A-5375
6	Spiked XAD	HRPCB, CARB429-PAH,	A-5376
6	Particulate Filter	8.26 cm for Semivolatiles & Pesticides (OCPs)	A-5377
6	Particulate Filter	8.26 cm for PAHs & PCBs	A-5378

Comments:
Please deliver to Patti Carswell by Wednesday, March 22, 2006.



Method	Color Code	Amt. Spiked	Conc. And Units	Spike Sol'n ID	Exp. Date	Spiked By/ Date	Verified By
8270C	Blue	200 µl	1000 ppm	2990:29	12-12-13	RM/3-20-06	AS
Dioxin							
1668 mod.	Yellow	200 µl	50 ng/ml	2990:80	11-1-10	RM/3-20-06	AS
CARB 429	Yellow	200 µl	5.0 ppm	2904:67	6-27-06	RM/3-20-06	AS
8081A							
TCO/Grav		NA	NA	NA	NA	NA	NA

Shipping *(include blank COCs and Custody Seals with this shipment. Send temperature blanks where applicable)*

Attn: Patti Carswell
Company: STL - Knoxville ACS
Address 1:
Address 2:
City, State, Zip:
Phone:
Fax:
FedEx Email:

Lot Number:

Completed/Shipped by: David Kimmel
Date Shipped: 3-21-06
Shipping Courier:
Tracking Number

Invoice #:

3446

STL Knoxville Specialty Organics Group GC/MS Data Review / Narrative Checklist LOT # H6D033447
SOP Number: KNOX-ID-0013 Revision 4

Batch Number:	6100050

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.,* **surl***):* Sample / Reason / Sample / Reason		✓		☐* **[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?		✓			✓

* Such action must be taken in consultation with client.

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: CHW	Date: 4/26/06	Analyst: VMIC	Date: 4/27/06
Comments:		Comments:	
No Issues.			

STL Knoxville **Specialty Organics Prep Batch Review/Checklist** **Batch #** 6100050

☐ KNOX-ID-0004, rev. 6 (PCDD/F extraction) ☒ KNOX-ID-0012, rev. 1 (Air Train extraction) ☒ KNOX-ID-0013, rev. 4 (PCB extraction) ☐ KNOX-ID-0016, rev. 3 (LR-SIM PAH extraction) ☐ KNOX-ID-0017, rev. 1 (filters & XAD)

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: [illegible]	Date: 4/21/06	2nd Level Reviewer :	Date: AS 4/21/06
Comments:		Comments:	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/21/06
Time: 9:00:09

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: 015720 Chase Adams
007259 Syed I. Ahmed

Concentrationist: 013451 Susan D. Oxendine

****
* *
* QC BATCH: 6100050 *
* *
****

PREP DATE: 4/10/06 18:00
COMP DATE: 4/21/06 11:00

Reviewer/Date: OXENDINS / 4/21/06

PCBs, HRGC/HRMS (1668A)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - 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
4/27/06	4/24/06	H6D030241-003													
COMMENTS:	2450 ML	**H2H2T-1-AC** 51	D	09	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:11,2.0ML,C13
4/28/06	4/24/06	H6D030241-006													
COMMENTS:	2250 ML	**H2H2X-1-AC** 52	D	09	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:11,2.0ML,C13
4/27/06	4/24/06	H6D030241-009													
COMMENTS:	190 ML	**H2H22-1-AC** 53	D	09	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:11,2.0ML,C13
4/29/06	4/24/06	H6D030241-013													
COMMENTS:	2350 ML	**H2H26-1-AC** 54	D	09	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:11,2.0ML,C13
4/27/06	0/00/00	H6D100000-050													
COMMENTS:	1500 ML	**H2W5K-1-AAB** 55		09	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:11,2.0ML,C13
4/27/06	0/00/00	H6D100000-050													
COMMENTS:	1500 ML	**H2W5K-1-ACC** 56		09	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:01,2.0ML,NATIVE 3261:11,2.0ML,C13
4/27/06	0/00/00	H6D100000-050													
COMMENTS:	1500 ML	**H2W5K-1-ADL** 57	R	09	IE	AIR	1 200.00uL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3261:01,2.0ML,NATIVE 3261:11,2.0ML,C13

CONDENSATE VOLUMES ARE IN THE COMMENT SECTION.

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

3450

STL Knoxville

Specialty Organics Group - PCB Sample Tracking Sheet - GC/MS Analysis Group

QC Batch No 6100050 Relinquished to GC/MS By: S. Okendine Date: 4/21/06

Received in GC/MS By: Prop Date: 4-21-06

Work Order Number		Column: SPB-Octyl				Column: SPB-Octyl				Column: SPB-Octyl			
		Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code
H2H2T1AC		4-25-06	MMT5	BFW	OK								
H2H2X1AC		↓	↓	↓	OK								
H2H221AC					OK								
H2H261AC		↓		↓	OK								
H2W5K1AA	B	4-25-06		BFW	OK								
H2W5K1AC	C	↓		↓	OK								
H2W5K1AD	L	↓	↓	↓	OK								

Comments: _____

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - GC/MS Analysis Group

QC Batch #: 6100050

Lot Numbers in this Batch:

H6D030241
H6D100000

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100050

Internal Std. Spiked By: JA **Verified By:** SA **Date:** 4-10-06

Native LCS/D Spiked By: JA **Verified By:** SA **Date:** 4-10-06

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
H2H2T1AC		N	NA			SD 04/21/06	3261:17	100 uL	100 uL	
H2H2X1AC		↓	↓			↓	↓	↓	↓	
H2H221AC										
H2H261AC										
H2W5K1AA	B									
H2W5K1AC	C									
H2W5K1AD	L									

Comments:

Volume of Alt Standard: NA

Split Ratios: Post I.S. 0.50

Post F.C. NA

Post C.S. ↓

Post R.S. ↓

Blk Matrix: D.I. H_2O W.B. Temp NA

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100050 **Cleanup Std. Spiked By:** JCA **Verified By:** SA Date: 4-19-06

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
H2H2T1AC		3261:13	1000 uL				JCA/SA 4-19-06				
H2H2X1AC		↓	↓				↓				
H2H221AC											
H2H261AC											
H2W5K1AA	B										
H2W5K1AC	C										
H2W5K1AD	L	↓	↓				↓				

Comments:

STL Knoxville
HR PCBs Solution Concentrations

PCB congener	IUPAC[1]	Spike Solution ID: (Book: pg. No.) Concentration
All 209 Native PCB Congeners	**All**	NA 1.0 ng/mL 3261:01 5.0 ng/mL
Labeled Internal Standards	**IUPAC**	**Spike Solution ID: (Book: pg. No.) Concentration**
$^{13}C_{12}$-2-chlorobiphenyl	1L	NA 2.0 ng/mL 3261:11 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	3261:17 100 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 3261:13 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	NA 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.

Trace Level Organics

Raw Sample Data

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	**Work Order #....:**	H2H2A1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**3.4**	**B J**	**20**	**0.70**	**ng/sampl**
Acenaphthylene	**9.1**	**J**	**20**	**0.23**	**ng/sampl**
Anthracene	**4.0**	**J**	**20**	**0.40**	**ng/sampl**
Benzo(a)anthracene	**1.7**	**B J**	**20**	**0.17**	**ng/sampl**
Benzo(b)fluoranthene	**4.2**	**B J**	**20**	**0.56**	**ng/sampl**
Benzo(k)fluoranthene	**3.1**	**B J**	**20**	**0.68**	**ng/sampl**
Benzo(ghi)perylene	**5.6**	**J**	**20**	**0.39**	**ng/sampl**
Benzo(a)pyrene	**2.7**	**B J**	**20**	**0.85**	**ng/sampl**
Benzo(e)pyrene	**4.5**	**B J**	**20**	**0.71**	**ng/sampl**
Chrysene	**3.5**	**B J**	**20**	**0.18**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.32	ng/sampl
Fluoranthene	**27**	**B**	**20**	**0.51**	**ng/sampl**
Fluorene	**15**	**B J**	**20**	**0.48**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**3.3**	**B J**	**20**	**0.39**	**ng/sampl**
2-Methylnaphthalene	**31**	**B J**	**20**	**0.30**	**ng/sampl**
Naphthalene	**40**	**B J**	**20**	**0.35**	**ng/sampl**
Perylene	ND		20	0.91	ng/sampl
Phenanthrene	**140**	**B**	**20**	**0.34**	**ng/sampl**
Pyrene	**25**	**B J**	**20**	**0.49**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	100	20 - 120
Acenaphthylene-d8	106	20 - 120
Phenanthrene-d10	108	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	118	30 - 120
Chrysene-d12	105	30 - 120
Benzo(b)fluoranthene-d12	106	30 - 120
Benzo(k)fluoranthene-d12	107	30 - 120
Benzo(a)pyrene-d12	101	30 - 120
Perylene-d12	93	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	116	30 - 120
Benzo(ghi)perylene-d12	109	30 - 120

STL Knoxville - ACS

Sample ID: G-2925/2926-R1-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 001	**Work Order #....:**	H2H2A1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2A1AA	Prep Batch	6100051	Lot No	H6D030241-001
Data File	/20060418s2/yh2h2a.d	Prep Date	04/10/06	SDG No	
Analysis ID	90193	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	4/19/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	01:56	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	229980	89616	1.748	500.0	465.557159	93.11	465.557159		0.352
Naphthalene	16:01	22210	8780	1.211		39.880241		39.880241	B J	0.346
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:03	12443	5530	1.269		31.355521		31.355521	B J	0.301
2-Methylnaphthalene-d10	17:58	156408	68824	1.104	500.0	501.393748	100.28	501.393748		0.427
1-Methylnaphthalene	18:23	6324	2714	1.365		16.813710		16.813710	BJ	0.358
1-Methylnaphthalene-d10	18:17	137801	53659	0.958	500.0	508.803408	101.76	508.803408		0.492
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	3006	1235	1.533		6.269290		6.269290	J	0.521
2,6-Dimethylnaphthalene	19:56	5614	2193	1.249		15.713044		15.713044	J B	0.747
2,6-Dimethylnaphthalene-d1	19:47	142984	67009	0.977	500.0	518.026208	103.61	518.026208		0.419
C2 Alkylnaphthalenes				1.249		15.713044		15.713044	J	0.558
Acenaphthylene	20:48	5260	2021	1.244		9.147047		9.147047	J	0.226
Acenaphthylene-d8	20:46	231218	102454	1.548	500.0	528.497637	105.70	528.497637		0.318
Acenaphthene-d10	21:16	141291	61018	1.000	500.0	500.000000	100.00	500.000000		0.430
Acenaphthene	21:21	1194	572	0.762		3.387044		3.387044	BJ	0.704
2,3,5-Trimethylnaphthalene	22:28	1978	644	1.127		6.137042		6.137042	J	0.447
C3 Alkylnaphthalenes				1.127		6.137042		6.137042	J	0.334
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene	22:52	6081	2643	0.915		15.038498		15.038498	BJ	0.484
Phenanthrene-d10	25:43	220959	101574	0.753	500.0	540.188756	108.04	540.188756		0.239
Phenanthrene	25:47	75841	34895	1.216		141.092481		141.092481	B	0.344
Anthracene-d10								ND		0.000000
Anthracene	25:56	1862	630	1.059		3.978956		3.978956	J	0.395
1-Methylphenanthrene	27:40	5277	2474	0.870		13.720817		13.720817	J B	0.325
Fluoranthene-d10	29:21	215932	100096	0.727	500.0	547.271100	109.45	547.271100		0.350
Fluoranthene	29:24	15271	6958	1.334		26.511994		26.511994	B	0.506
Pyrene-d10	30:02	271527	117936	1.000	500.0	500.000000	100.00	500.000000		0.254
Pyrene	30:05	14997	6469	1.369		25.369644		25.369644	B J	0.493
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:37	166561	75408	0.521	500.0	588.713115	117.74	588.713115		0.387
Benzo(a)anthracene	33:40	815	346	1.454		1.683003		1.683003	BJ	0.171
Chrysene-d12	33:44	159238	74732	0.557	500.0	526.698271	105.34	526.698271		0.362
Chrysene	33:48	1540	619	1.363		3.547800		3.547800	BJ	0.184
Benzo(b)Fluoranthene-d12	36:35	157283	63540	0.847	500.0	528.645221	105.73	528.645221		0.332
Benzo(k)Fluoranthene-d12	36:40	187950	69702	1.002	500.0	533.818102	106.76	533.818102		0.281
Benzo(b)fluoranthene	36:39	2007	817	1.508		4.232021		4.232021	BJ	0.561
Benzo(k)fluoranthene	36:42	1331	544	1.136		3.115591		3.115591	BJ	0.679
Benzo(e)pyrene-d12	37:23	175610	71016	1.000	500.0	500.000000	100.00	500.000000		0.282
Benzo(e)pyrene	37:27	1856	498	1.589		4.466998		4.466998	BJ	0.713
Benzo(a)Pyrene-d12	37:33	130780	47471	0.737	500.0	505.297837	101.06	505.297837		0.382
Benzo(a)pyrene	37:36	945	355	1.333		2.711040		2.711040	BJ	0.850
Perylene-d12	37:47	144709	50385	0.887	500.0	464.758216	92.95	464.758216		0.318
Perylene				1.178				ND		0.906
3-Methylcholanthrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2A1AA	**Prep Batch**	6100051	**Lot No**	H6D030241-001
Data File	/20060418s2/yh2h2a.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90193	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	4/19/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	01:56	**Initial Wt/Vol**	1	**Lims Test Code**	XXSINYA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	82300	24762	0.405	500.0	579.166018	115.83	579.166018		0.435
Indeno(1,2,3-cd)pyrene-d12	41:08	154024	36791	0.779	500.0	562.930479	112.59	562.930479		0.226
Indeno(1,2,3-cd)pyrene	41:13	1306	338	1.297		3.269294		3.269294	BJ	0.393
Dibenz(a,h)anthracene				2.059				ND		0.319
Benzo(ghi)Perylene-d12	42:06	107435	27966	0.559	500.0	546.940047	109.39	546.940047		0.315
Benzo(ghi)perylene	42:12	2053	427	1.698		5.626473		5.626473	BJ	0.395
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

VMH 4/24/06

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AD	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5l1.d	Prep Date	04/10/06	SDG No	
Analysis ID	90127	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/14/06 01:28	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	40		16				
	Naphthalene	16:01	16:01	0	126604	✓	43206			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	30		12				
	Naphthalene-d8	15:58	15:57	1	110257	✓	37393			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	25		10				
	2-Methylnaphthalene	18:03	18:03	0	84086	✓	31986			ABV	M
	1-Methylnaphthalene	18:23	18:23	0	79038	✓	32521			AVB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	17:58	0	71218	✓	26213			ABV	
	1-Methylnaphthalene-d10	18:18	18:17	1	62331	✓	23961			AVB	
	Acenaphthylene	20:49	20:48	1	114694	✓	44325			AVB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	58	✓	23				
	Biphenyl	19:27	19:26	1	101369	✓	46422			ABB	
	Acenaphthene	21:21	21:22	-1	72453	✓	26741			ABB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	100		40				
	2,6-Dimethylnaphthalene	19:56	19:55	1	73622	✓	32378			ABB	M
160					160.0000		160.0000				
	Noise	00:00	00:00	0	18		7				
	Acenaphthylene-d8	20:46	20:47	-1	103361	✓	45795			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	18		7				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	23		9				
	Acenaphthene-d10	21:17	21:16	1	61298	✓	21004			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	28		11				
	Fluorene	22:52	22:52	0	86398	✓	32761			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	25		10				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	64671	✓	24731			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	20		8				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	15		6				
	2,3,5-Trimethylnaphthal	22:28	22:29	-1	67059	✓	27568			ABB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	8		3				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AD	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5l1.d	Prep Date	04/10/06	SDG No	
Analysis ID	90127	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/14/06 01:28	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					176.0000		176.0000				
	Noise	00:00	00:00	0	20		8				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	23		9				
	Phenanthrene	25:47	25:48	-1	119450	✓	54906			ABV	M
	Anthracene	25:56	25:55	1	92188	✓	42969			AVV	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	55		22				
	Phenanthrene-d10	25:43	25:44	-1	108038	✓	45299			ABV	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	28		11				
	1-Methylphenanthrene	27:40	27:41	-1	87353	✓	32210			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	35		14				
	Fluoranthene	29:24	29:24	0	131222	✓	57880			ABV	M
	Pyrene	30:05	30:05	0	134431	✓	52728			ABV	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene-d10	29:21	29:21	0	109099	✓	49940			ABV	
	Pyrene-d10	30:02	30:02	0	138277	✓	52988			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)anthracene	33:40	33:40	0	105328	✓	42748			ABV	M
	Chrysene	33:48	33:48	0	103634	✓	48815			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)Anthracene-d12	33:37	33:36	1	81421	✓	38226			ABV	
	Chrysene-d12	33:44	33:44	0	83493	✓	39186			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	93		37				
	Benzo(b)fluoranthene	36:39	36:39	0	107823	✓	45396			ABV	M
	Benzo(k)fluoranthene	36:43	36:42	1	97654	✓	38020			AVB	M
	Benzo(e)pyrene	37:27	37:27	0	98984	✓	39199			AVV	M
	Benzo(a)pyrene	37:36	37:36	0	75527	✓	27963			AVV	M
	Perylene	37:50	37:50	0	84438	✓	28696			AVB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	38		15				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	87547	✓	32179			ABV	
	Benzo(k)Fluoranthene-d1	36:40	36:39	1	89038	✓	35715			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	86936	✓	34487			ABV	
	Benzo(a)Pyrene-d12	37:33	37:32	1	64116	✓	22876			AVV	
	Perylene-d12	37:46	37:46	0	80041	✓	26812			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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2A1AA	Prep Batch	6100051	Lot No	H6D030241-001
Data File	/20060418s2/yh2h2a.d	Prep Date	04/10/06	SDG No	
Analysis ID	90193	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/19/06 01:56	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	75		30				
	Naphthalene	16:01	16:01	0	22210	✓	8780			MBB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	75		30				
	Naphthalene-d8	15:58	15:57	1	229980	✓	89616			AVB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	53		21				
	2-Methylnaphthalene	18:03	18:03	0	12443	✓	5530			ABB	M
	1-Methylnaphthalene	18:23	18:23	0	6324	✓	2714			ABB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	58		23				
	2-Methylnaphthalene-d10	17:58	17:58	0	156408	✓	68824			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	137801	✓	53659			AVV	
	Acenaphthylene	20:48	20:48	0	5260	✓	2021			MBB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	110		44				
	Biphenyl	19:27	19:26	1	3006	✓	1235			ABB	
	Acenaphthene	21:21	21:22	-1	1194	✓	572			ABB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	125		50				
	2,6-Dimethylnaphthalene	19:56	19:55	1	5614	✓	2193			MBB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	60		24				
	Acenaphthylene-d8	20:46	20:47	-1	231218	✓	102454			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	63		25				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	53		21				
	Acenaphthene-d10	21:16	21:16	0	141291	✓	61018			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	90		36				
	Fluorene	22:52	22:52	0	6081	✓	2643			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	50		20				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	142984	✓	67009			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	80		32				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	68		27				
	2,3,5-Trimethylnaphthal	22:28	22:29	-1	1978	✓	644			ABV	M
172					172.0000		172.0000				
	Noise	00:00	00:00	0	33		13				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2A1AA	Prep Batch	6100051	Lot No	H6D030241-001
Data File	/20060418s2/yh2h2a.d	Prep Date	04/10/06	SDG No	
Analysis ID	90193	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/19/06 01:56	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					176.0000		176.0000				
	Noise	00:00	00:00	0	40		16				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	85		34				
	Phenanthrene	25:47	25:48	-1	75841 ✓		34895			ABV	M
	Anthracene	25:56	25:55	1	1862 ✓		630			AVB	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	43		17				
	Phenanthrene-d10	25:43	25:44	-1	220959 ✓		101574			ABV	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	58		23				
	1-Methylphenanthrene	27:40	27:41	-1	5277 ✓		2474			AVB	
202					202.0000		202.0000				
	Noise	00:00	00:00	0	135		54				
	Fluoranthene	29:24	29:24	0	15271 ✓		6958			ABB	M
	Pyrene	30:05	30:05	0	14997 ✓		6469			AVV	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	60		24				
	Fluoranthene-d10	29:21	29:21	0	215932 ✓		100096			ABV	
	Pyrene-d10	30:02	30:02	0	271527 ✓		117936			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	38		15				
	Benzo(a)anthracene	33:40	33:40	0	815 ✓		346			AVV	M
	Chrysene	33:48	33:48	0	1540 ✓		619			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	48		19				
	Benzo(a)Anthracene-d12	33:37	33:36	1	166561 ✓		75408			ABV	
	Chrysene-d12	33:44	33:44	0	159238 ✓		74732			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	15		6				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	108		43				
	Benzo(b)fluoranthene	36:39	36:39	0	2007 ✓		817			MBV	M
	Benzo(k)fluoranthene	36:42	36:42	0	1331 ✓		544			AVB	M
	Benzo(e)pyrene	37:27	37:27	0	1856 ✓		498			AVV	M
	Benzo(a)pyrene	37:36	37:36	0	945 ✓		355			AVB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	40		16				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	157283 ✓		63540			ABV	
	Benzo(k)Fluoranthene-d1	36:40	36:39	1	187950 ✓		69702			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	175610 ✓		71016			ABV	
	Benzo(a)Pyrene-d12	37:33	37:32	1	130780 ✓		47471			AVV	
	Perylene-d12	37:47	37:46	1	144709 ✓		50385			AVB	

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

PAH's by LRMS Extended List

IsoCalc

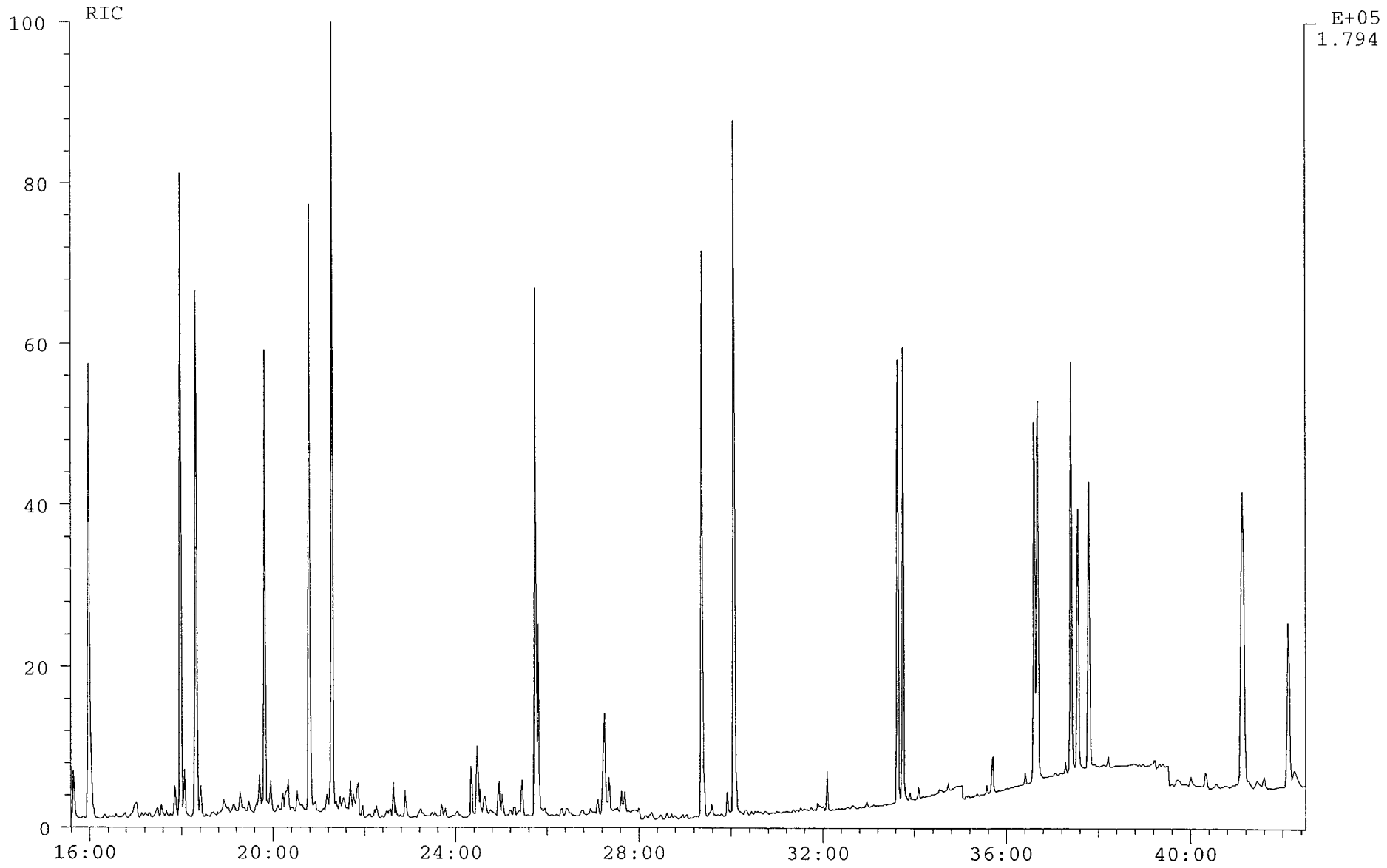
Workorder	H2H2A1AA	Prep Batch	6100051	Lot No	H6D030241-001
Data File	/20060418s2/yh2h2a.d	Prep Date	04/10/06	SDG No	
Analysis ID	90193	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/19/06 01:56	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
268					268.0000		268.0000				
	Noise	00:00	00:00	0	125		50				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	38		15				
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	1306 ✓		338			AVB	M
	Benzo(ghi)perylene	42:12	42:13	-1	2053 ✓		427			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	33		13				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	25		10				
	Indeno(1,2,3-cd)pyrene-	41:08	41:08	0	154024 ✓		36791			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	107435 ✓		27966			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	25		10				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	82300 ✓		24762			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	18		7				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	15		6				

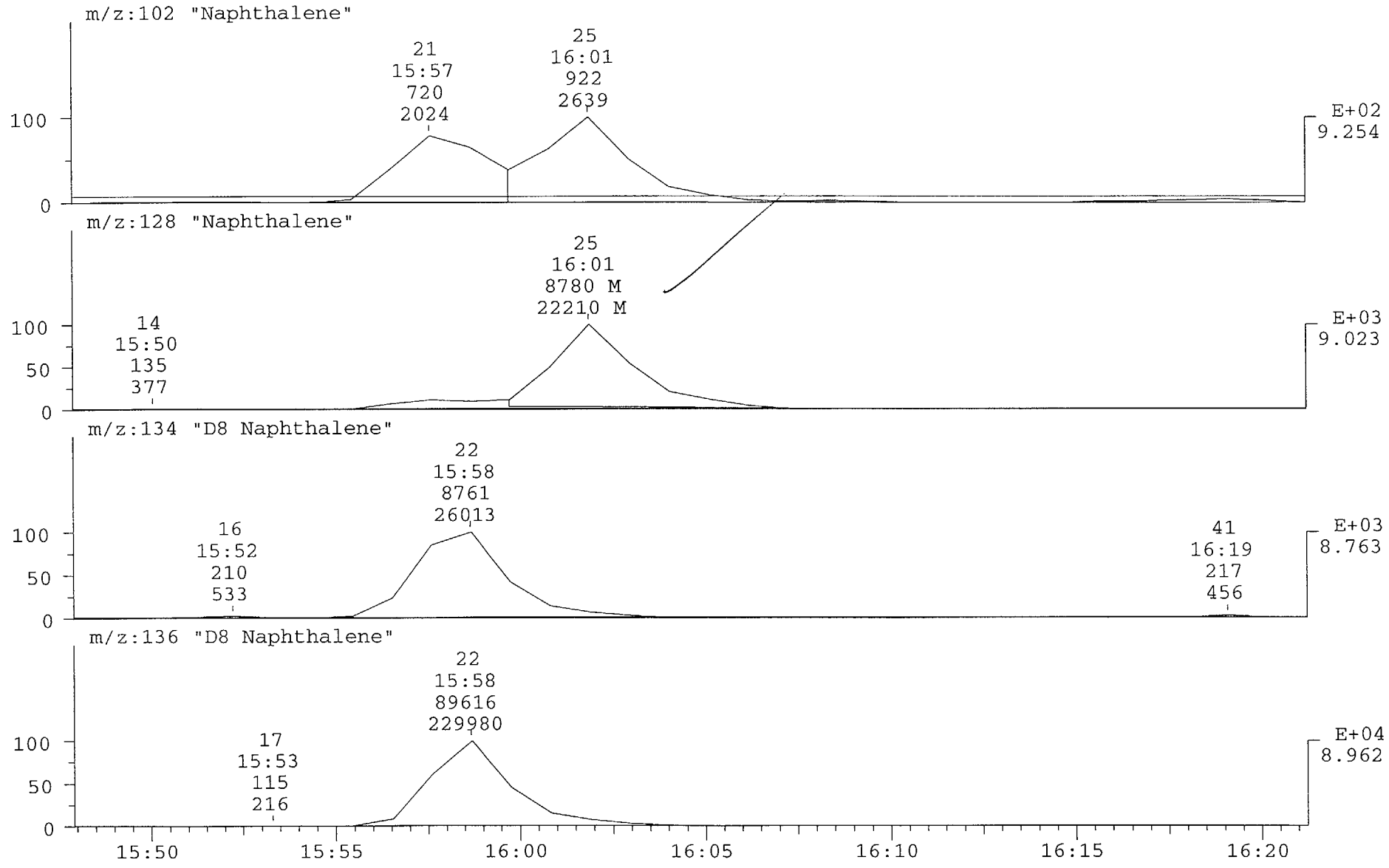
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: yh2h2a 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 1 > 1384 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : 0, 3.0
Disp: Height Area

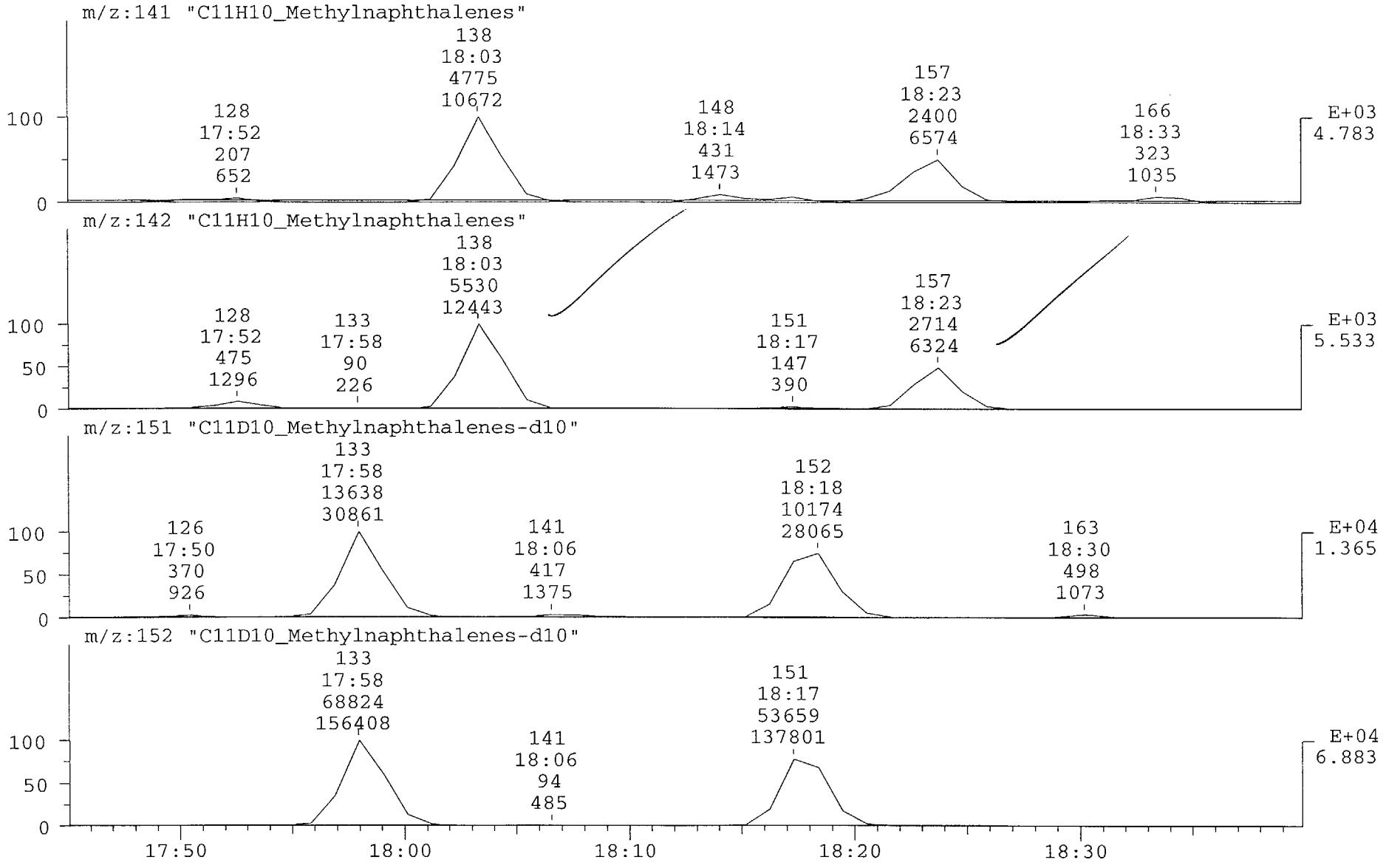
Int/Calc: GJ Explore
QC/Rev JMN 4/24/06



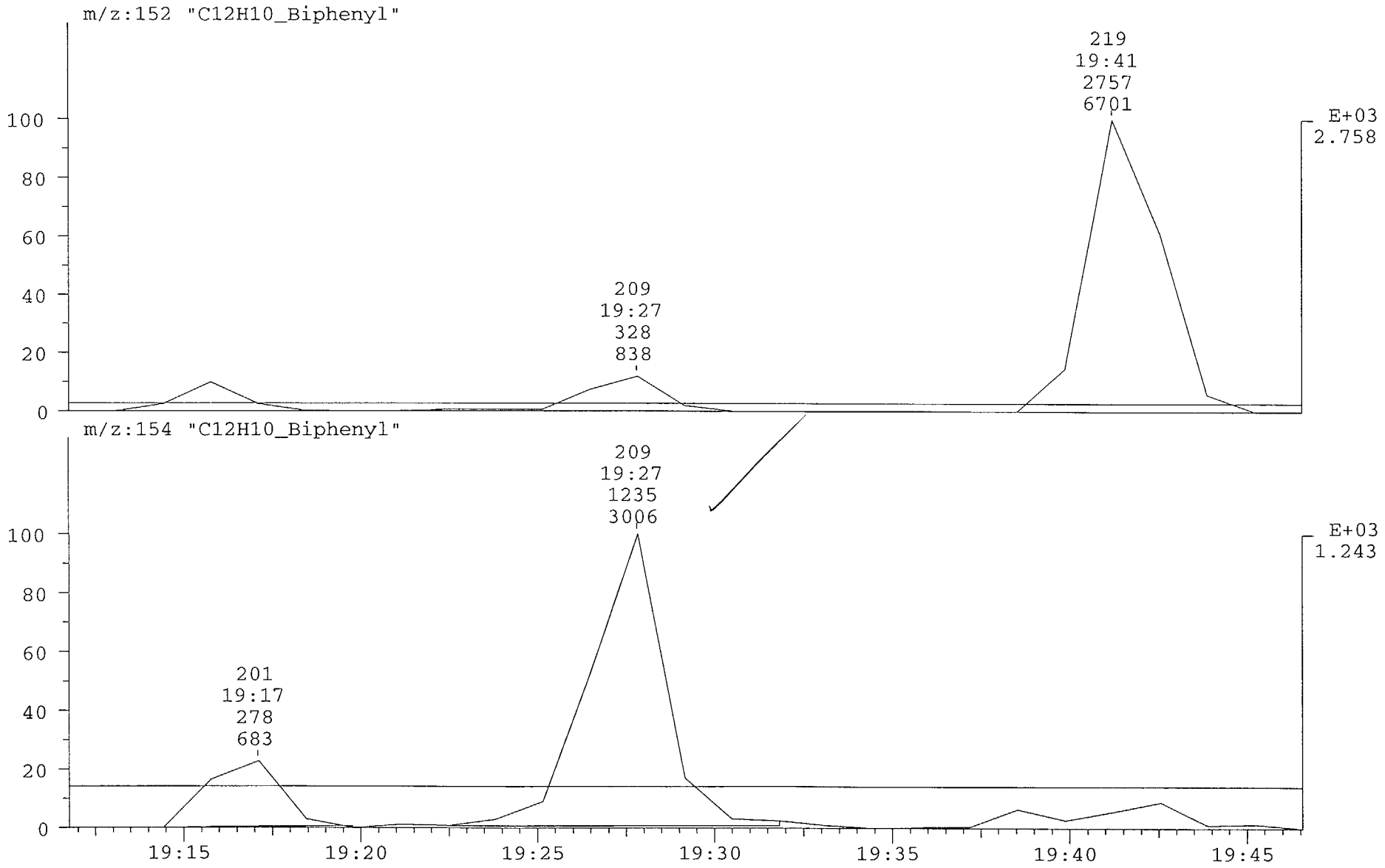
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



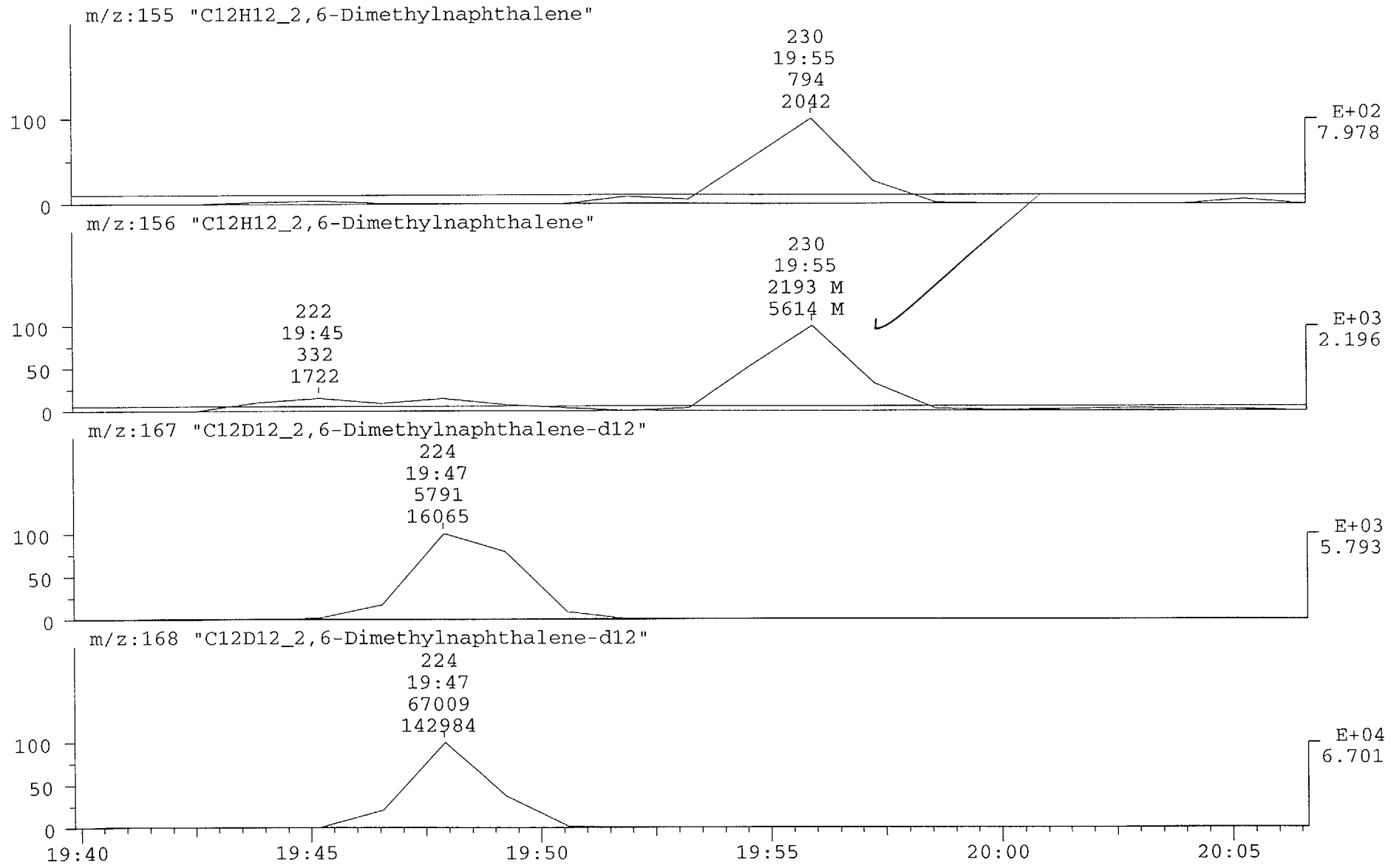
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



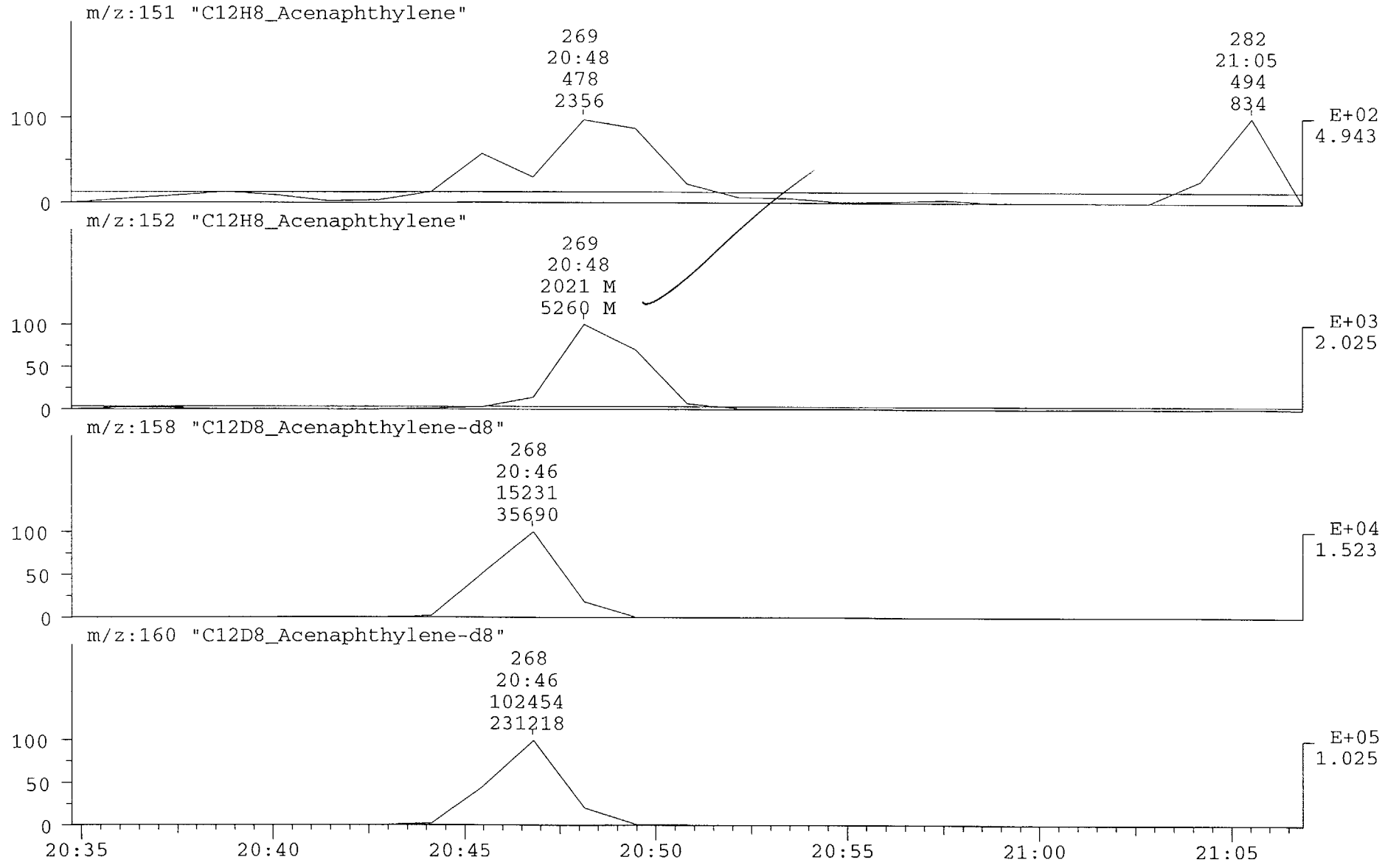
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



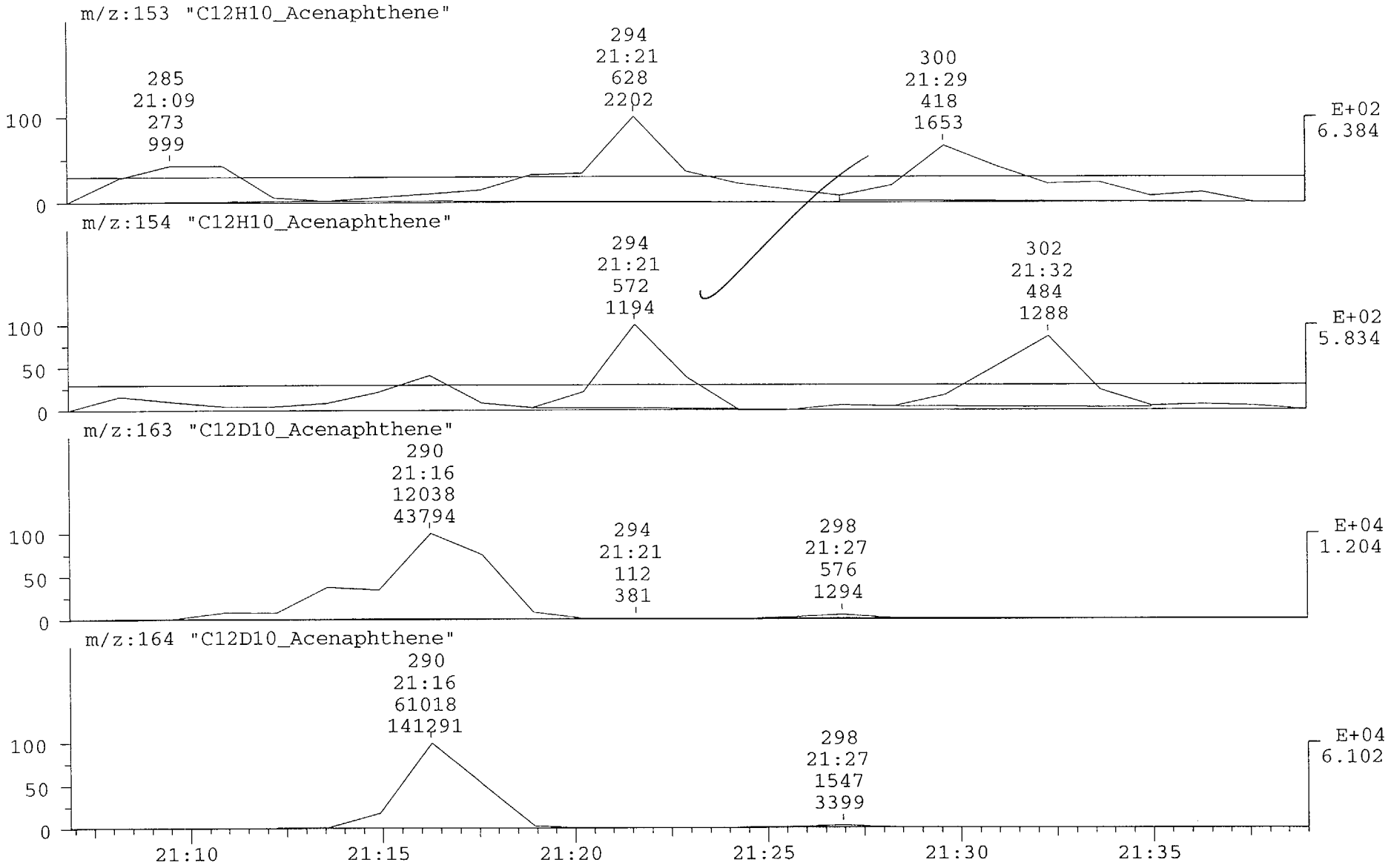
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



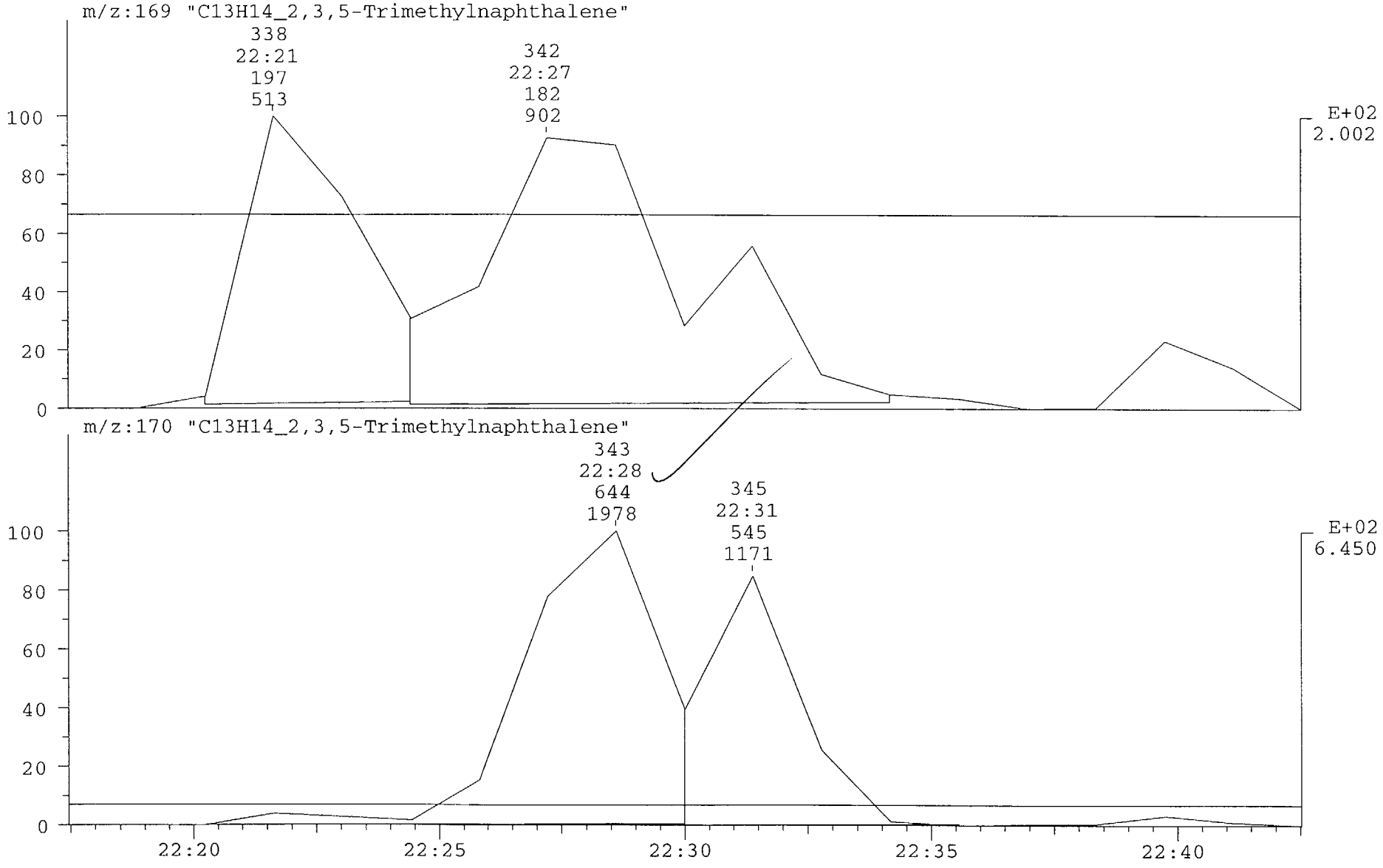
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



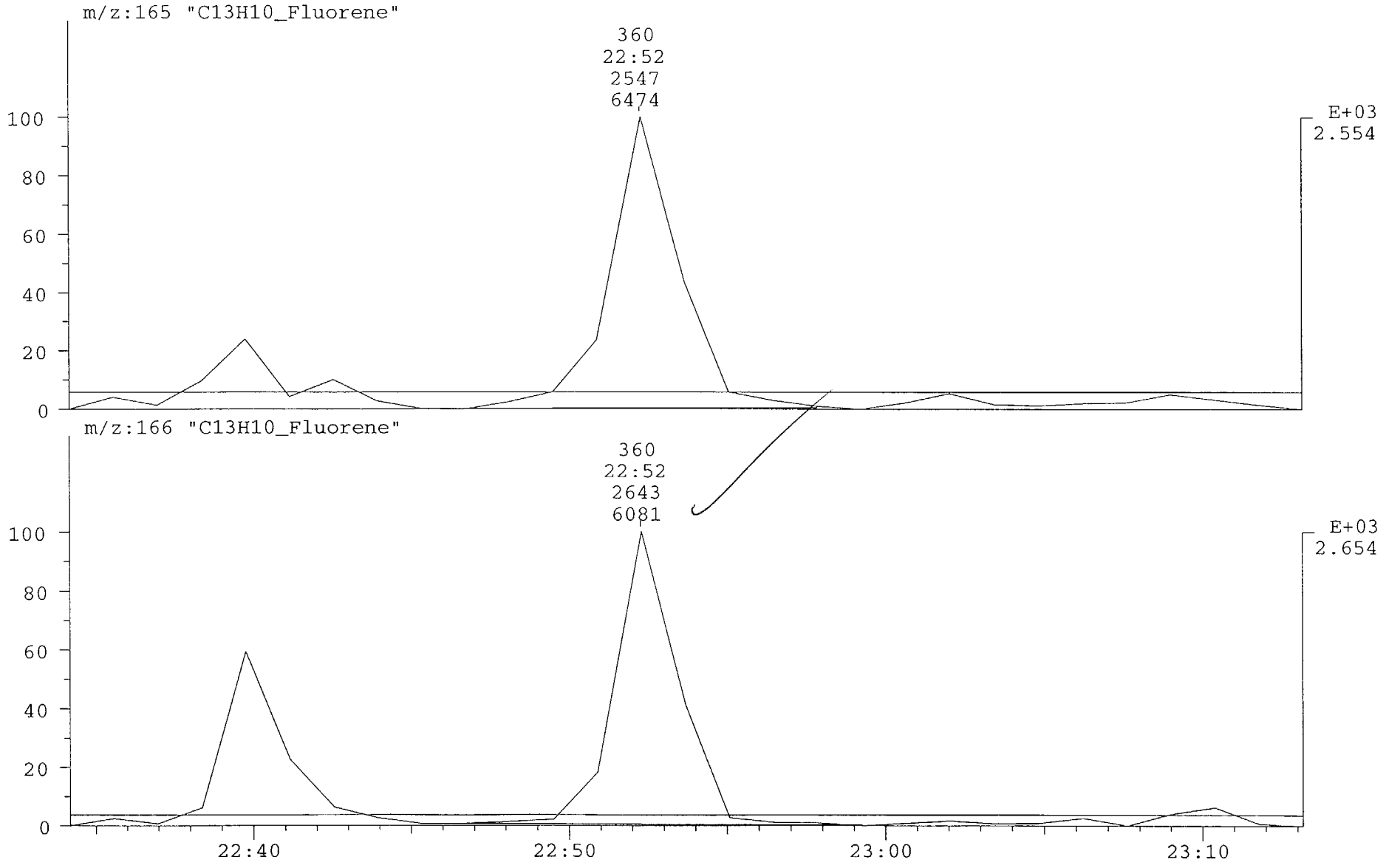
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



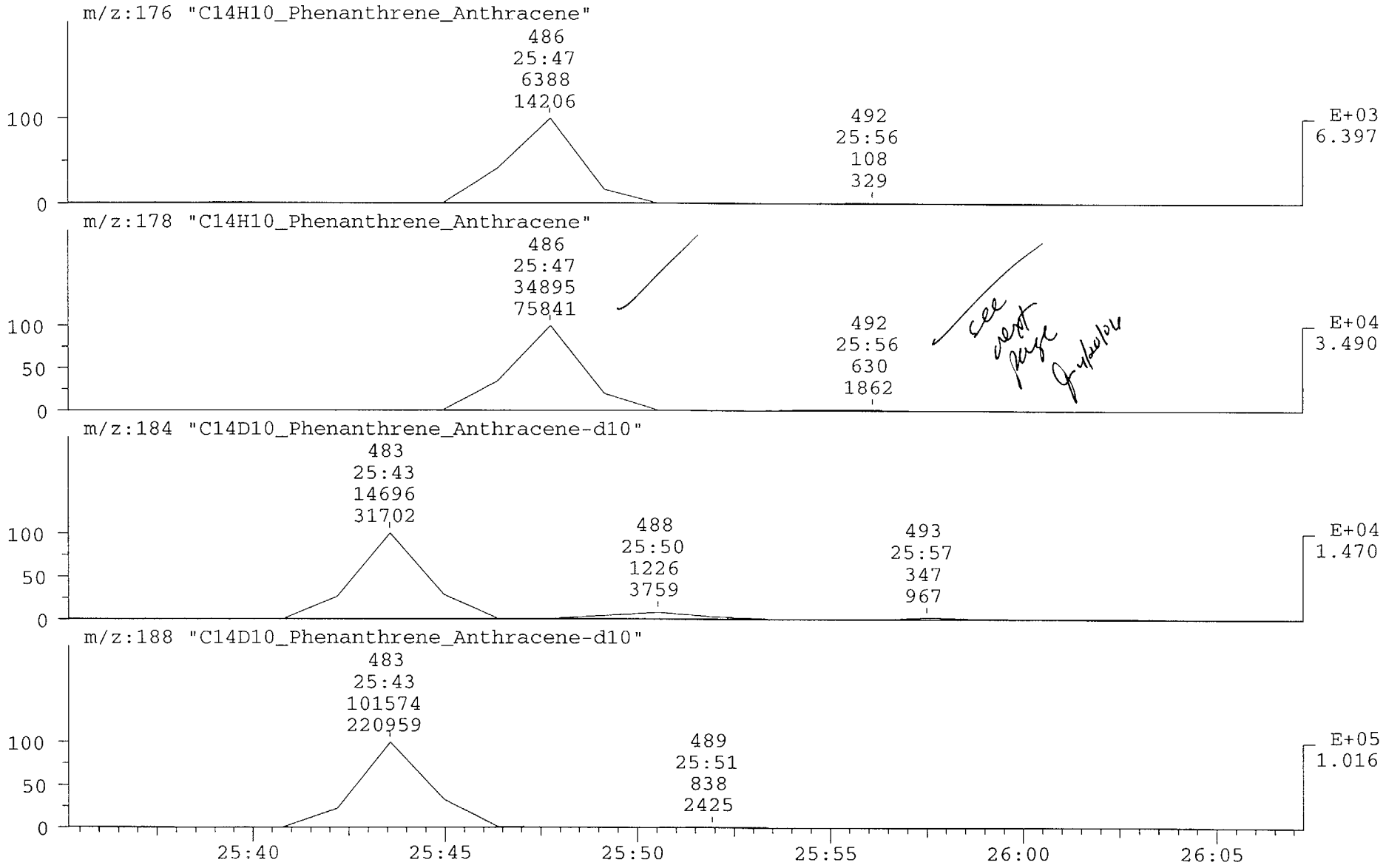
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

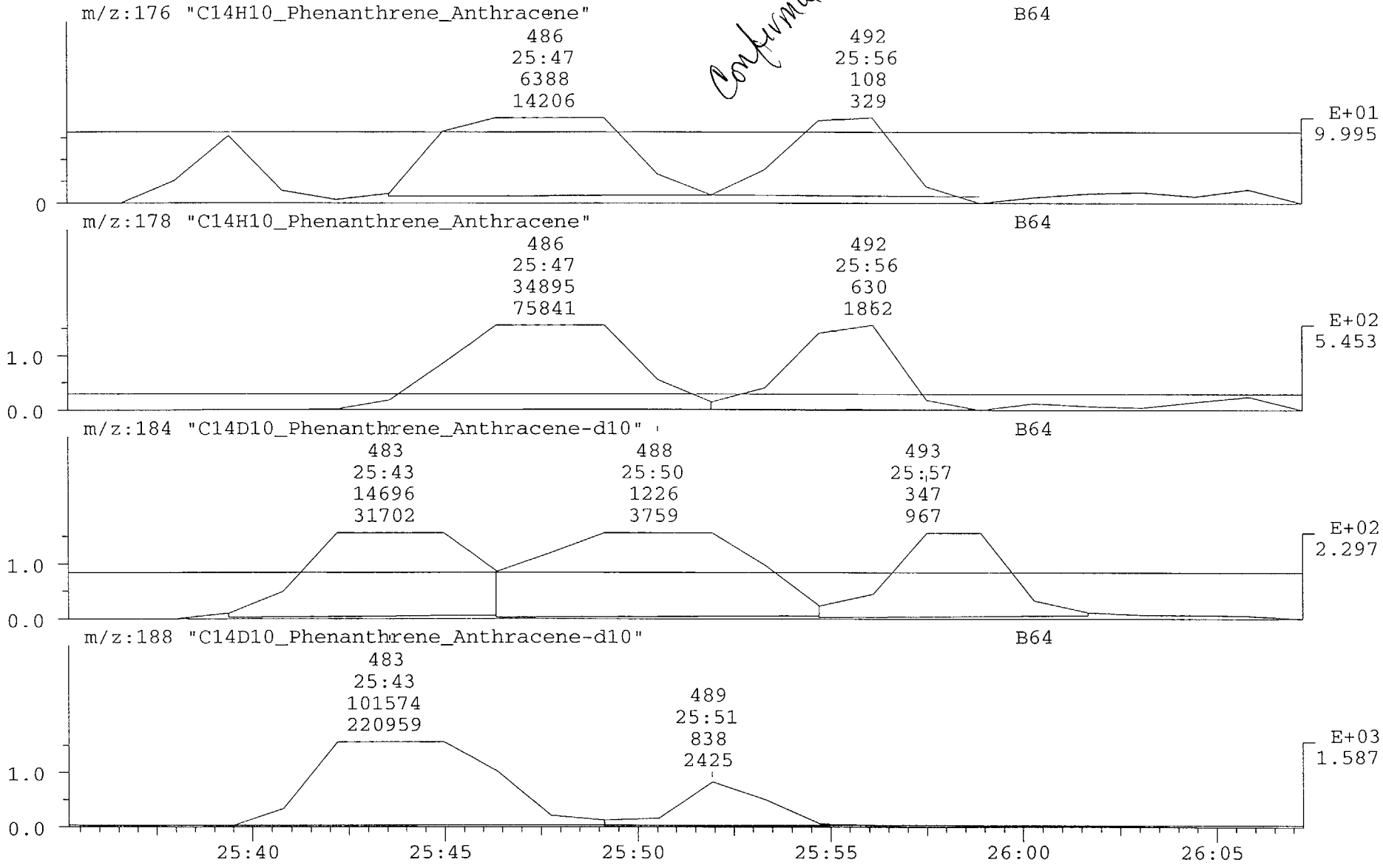


CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

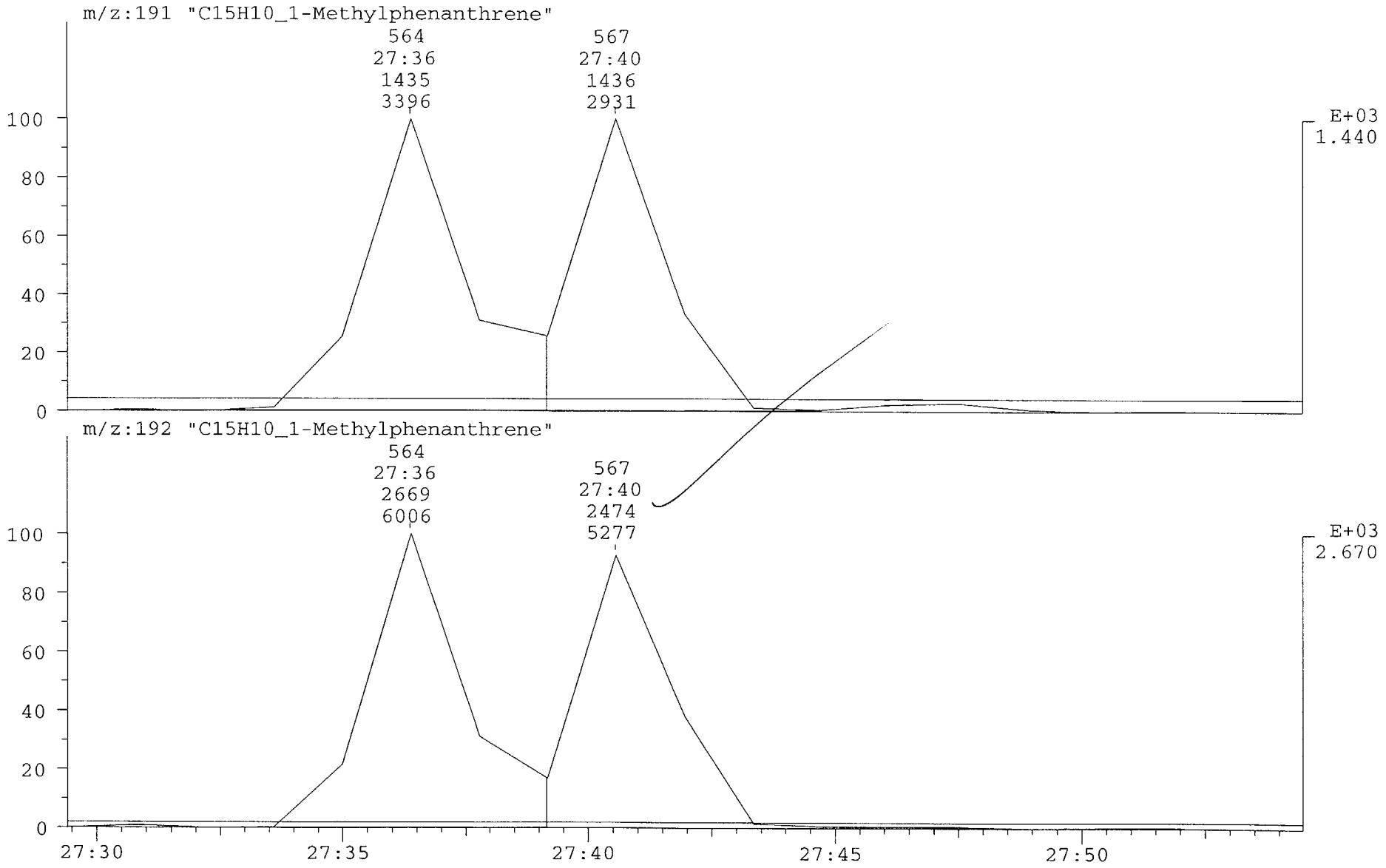


CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

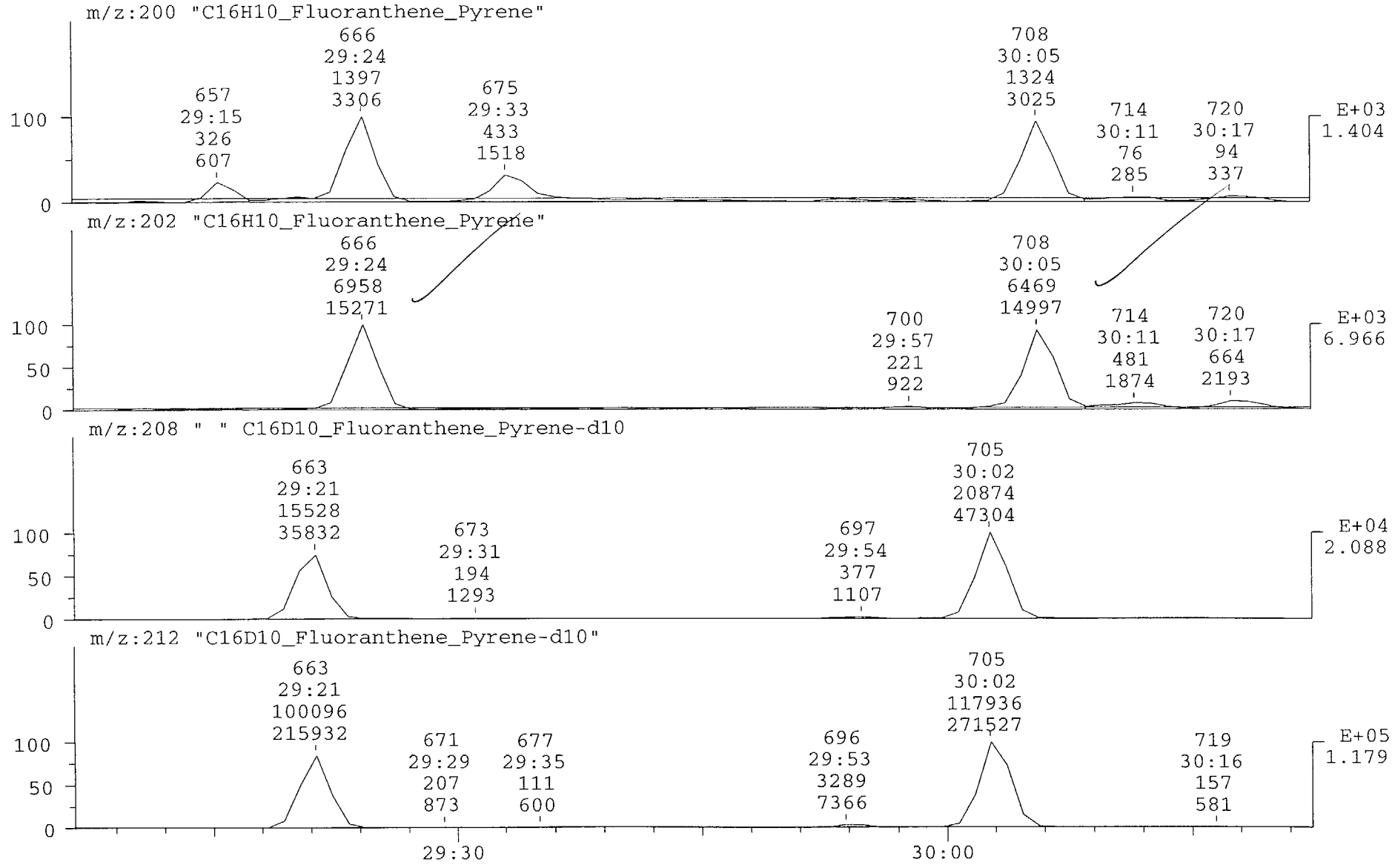
Confirmation



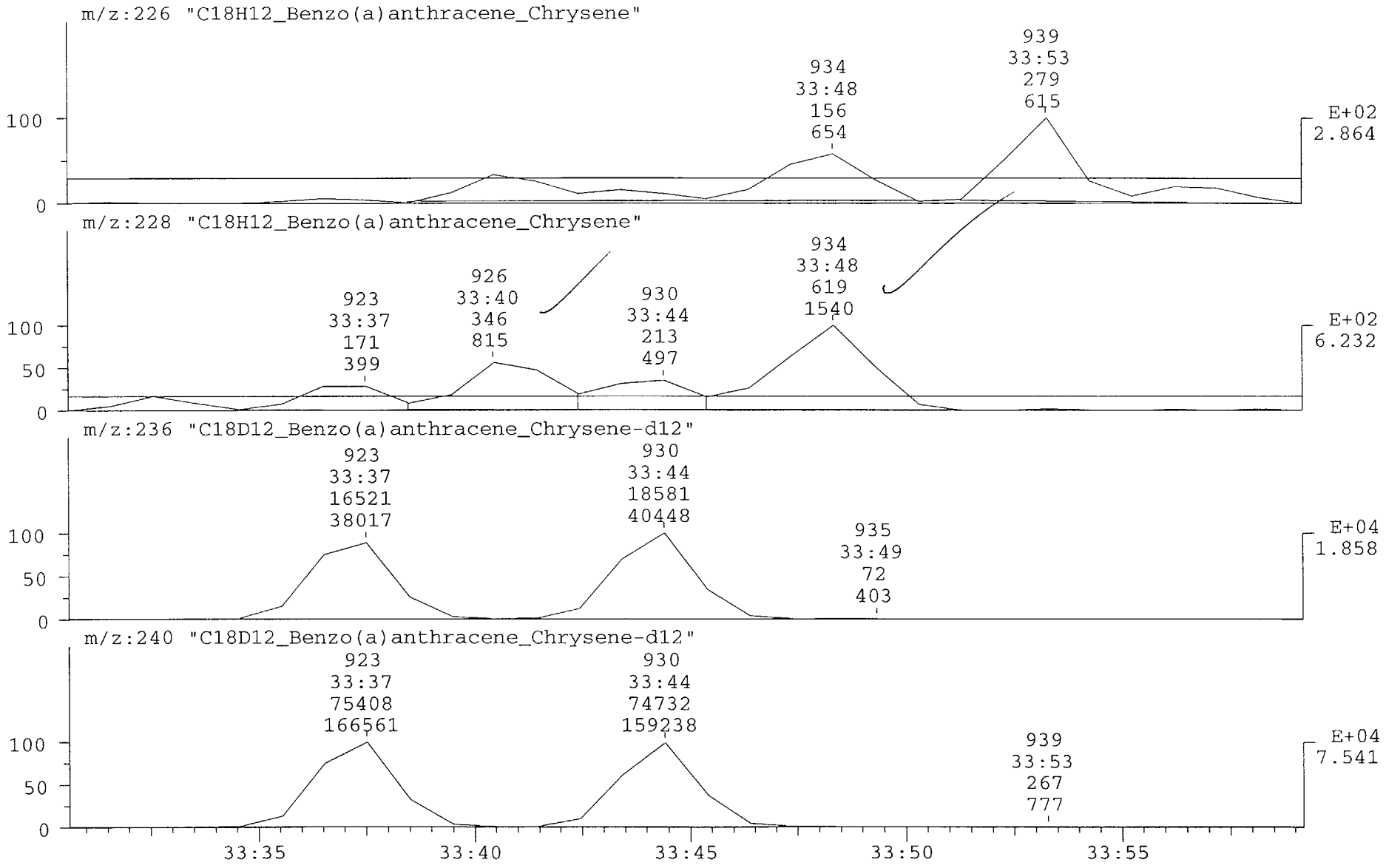
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



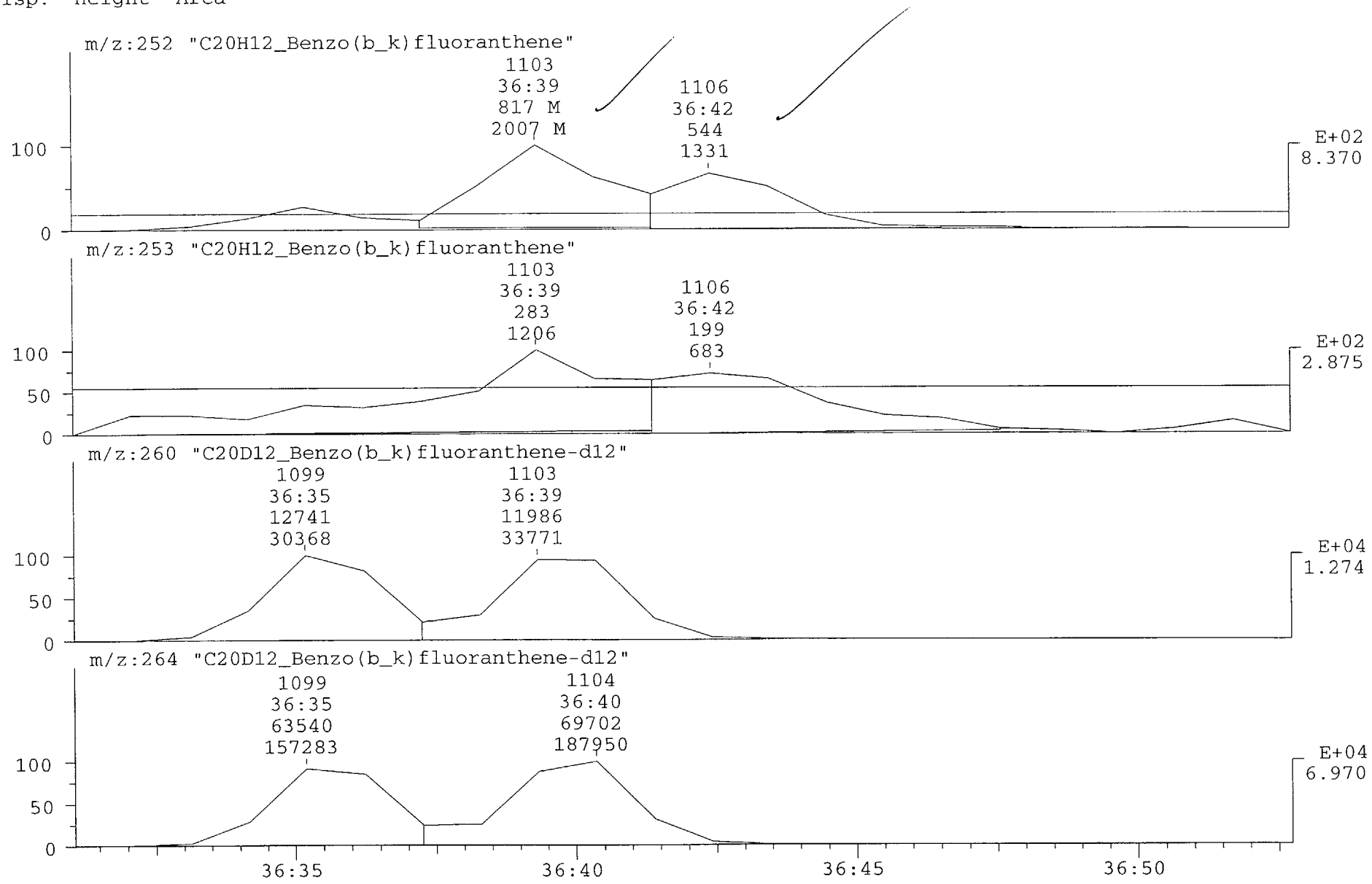
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



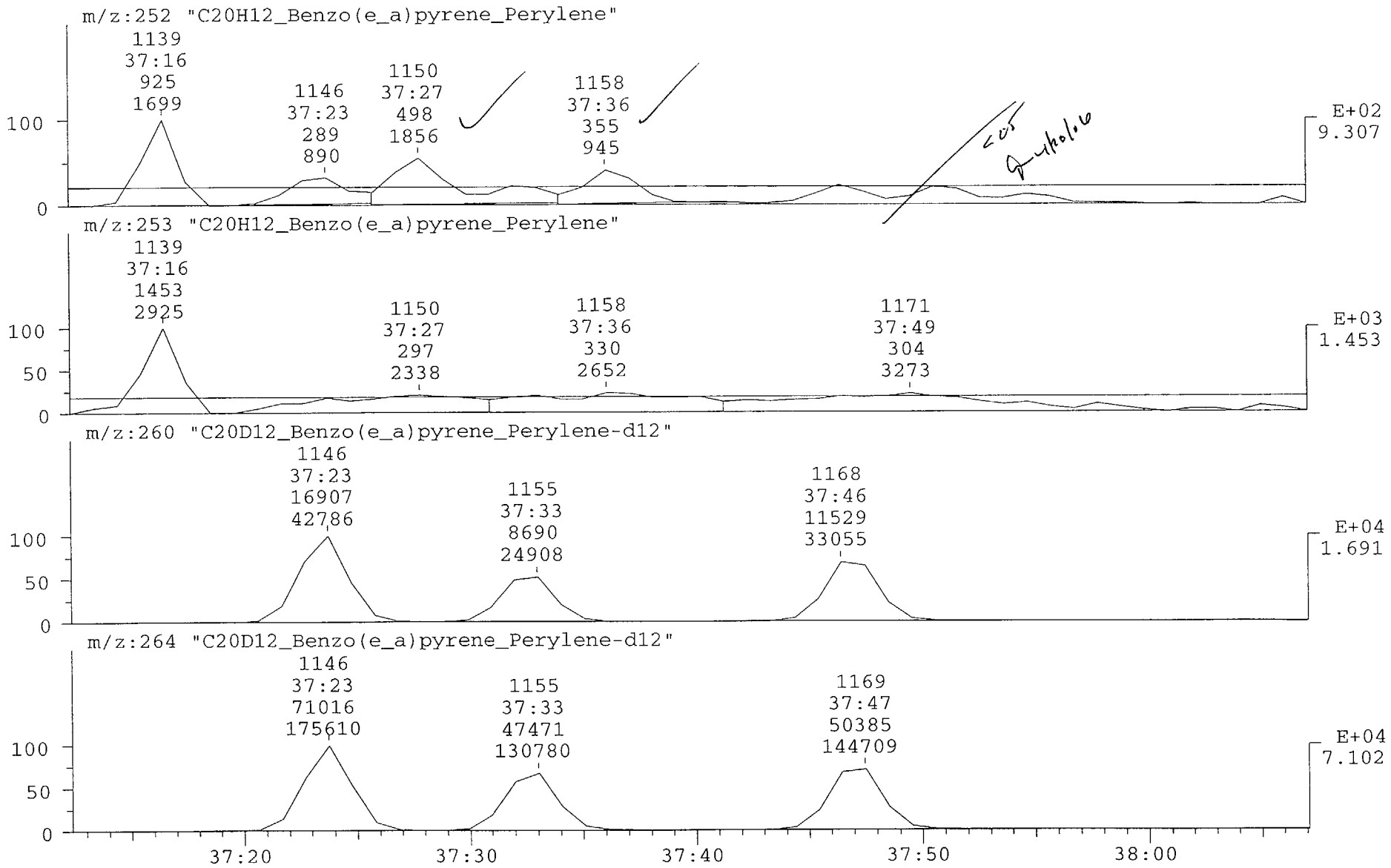
CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

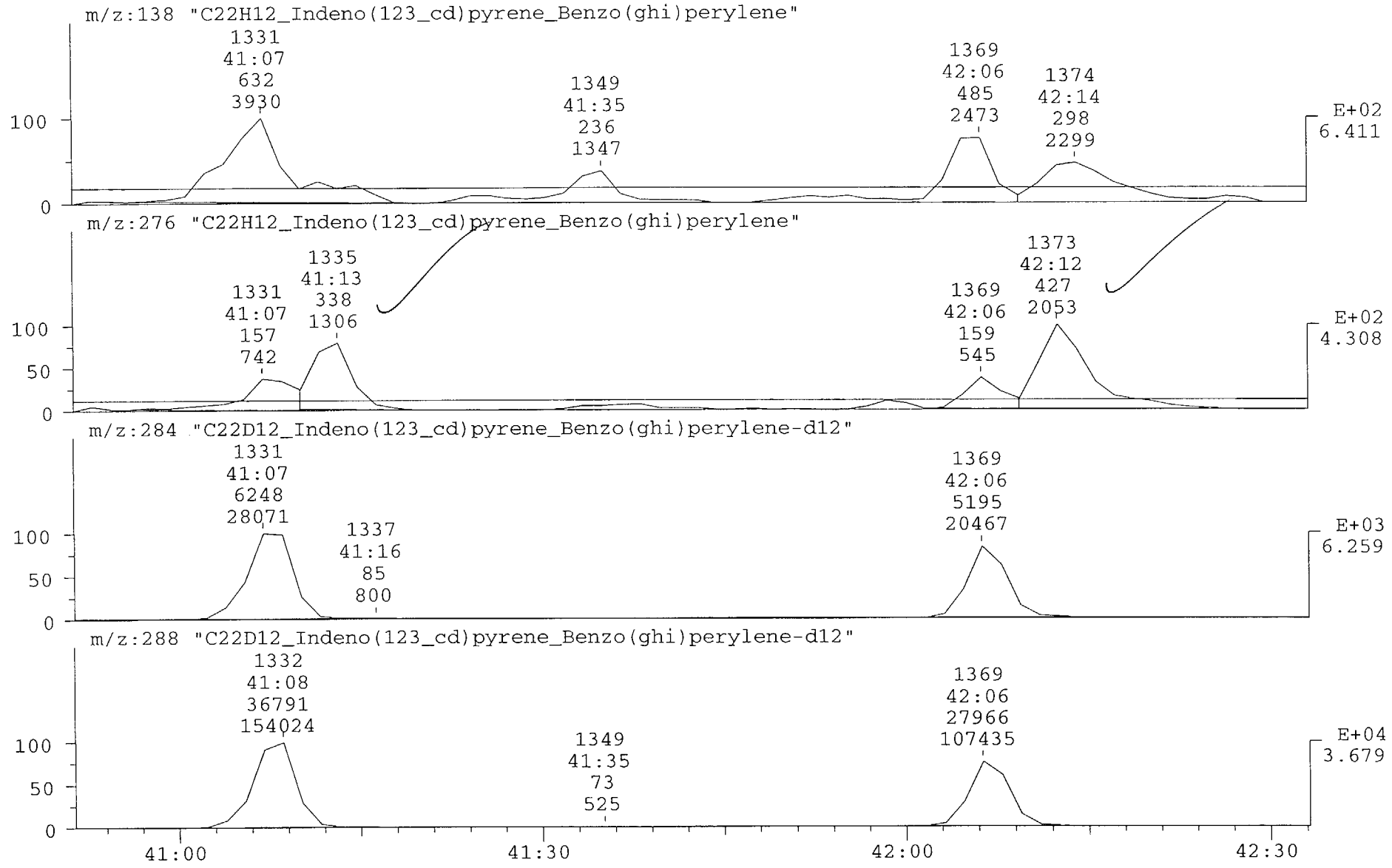


CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

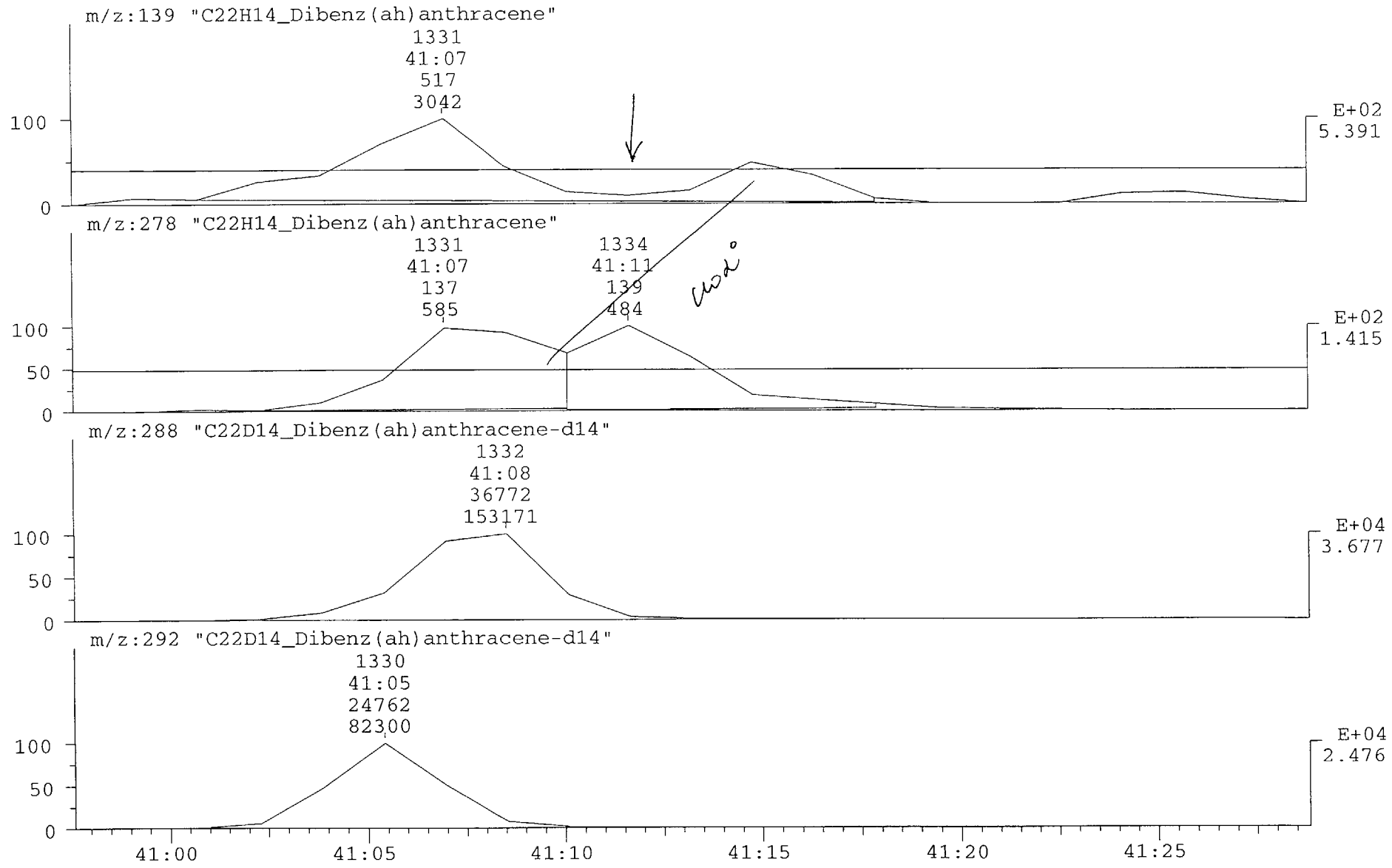


3482

CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2a 19-APR-06 Elapse: 39:52 1283
Samp: WO=h2h2a1aa Meth=YA1 Dil=1 Start : 01:56:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-001 Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2H2A.D
Date Acquired: 19 Apr 2006   1:56 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H2A1AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  9
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

[POSTRUN]
Source=MS
PrimaryFile=\data.ms
PrimaryType=hgfile
timestamp=MS ChemStation
Matrix=1
InitialAmt=1
FinalAmt=1

Beginning Export Process Wed Apr 19 14:09:20 2006
d:\cdffiles\YH2H2A.CDF Translated at Wed Apr 19 14:09:20 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:35:03 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h2a.dat
NetCDF File (input): /usr/users/hp/data/yh2h2a.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:35:04 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	**Work Order #....:**	H2H2M1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**3.5**	**B J**	**20**	**0.78**	**ng/sampl**
Acenaphthylene	**14**	**J**	**20**	**0.24**	**ng/sampl**
Anthracene	**28**		**20**	**0.60**	**ng/sampl**
Benzo(a)anthracene	**5.4**	**J**	**20**	**0.23**	**ng/sampl**
Benzo(b)fluoranthene	**40**	**B**	**20**	**0.54**	**ng/sampl**
Benzo(k)fluoranthene	**4.3**	**J**	**20**	**0.66**	**ng/sampl**
Benzo(ghi)perylene	**4.0**	**J**	**20**	**0.67**	**ng/sampl**
Benzo(a)pyrene	**2.2**	**B J**	**20**	**0.81**	**ng/sampl**
Benzo(e)pyrene	**4.4**	**B J**	**20**	**0.70**	**ng/sampl**
Chrysene	**18**	**J**	**20**	**0.27**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.50	ng/sampl
Fluoranthene	**100**	**B**	**20**	**0.43**	**ng/sampl**
Fluorene	**11**	**B J**	**20**	**0.92**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**3.8**	**J**	**20**	**0.71**	**ng/sampl**
2-Methylnaphthalene	**80**	**B J**	**20**	**0.38**	**ng/sampl**
Naphthalene	**880**	**B**	**20**	**0.73**	**ng/sampl**
Perylene	**3.5**	**B J**	**20**	**0.81**	**ng/sampl**
Phenanthrene	**300**	**B**	**20**	**0.53**	**ng/sampl**
Pyrene	**110**	**B**	**20**	**0.42**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
Naphthalene-d8	86		15 - 120
2-Methylnaphthalene-d10	91		20 - 120
Acenaphthylene-d8	107		20 - 120
Phenanthrene-d10	102		30 - 120
Fluoranthene-d10	104		30 - 120
Benzo(a)anthracene-d12	114		30 - 120
Chrysene-d12	106		30 - 120
Benzo(b)fluoranthene-d12	106		30 - 120
Benzo(k)fluoranthene-d12	110		30 - 120
Benzo(a)pyrene-d12	109		30 - 120
Perylene-d12	103		30 - 120
Indeno(1,2,3-cd)pyrene-d12	123	*	30 - 120
Dibenz(ah)anthracene-d14	127	*	30 - 120
Benzo(ghi)perylene-d12	123	*	30 - 120

STL Knoxville - ACS

Sample ID: G-2927/2928-R1-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 002	**Work Order #....:**	H2H2M1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	97	30 - 140
Terphenyl-d14	96	30 - 140
13C6-Fluorene	101	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2M1AA	Prep Batch	6100060	Lot No	H6D030241-002
Data File	/20060427s1/yh2h2m2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90337	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	19:49	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	16:13	347842	143291	1.623	500.0	427.974402	85.59	427.974402		0.549
Naphthalene	16:17	757191	343267	1.233		883.009368		883.009368	B	0.729
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:08	50467	19668	1.270		79.596808		79.596808	B J	0.384
2-Methylnaphthalene-d10	18:03	249683	115381	1.093	500.0	456.305656	91.26	456.305656		0.462
1-Methylnaphthalene	18:27	30877	12403	1.358		50.194663		50.194663	B J	0.424
1-Methylnaphthalene-d10	18:21	226518	97668	0.958	500.0	472.430627	94.49	472.430627		0.527
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:29	48246	18391	1.552		62.246730		62.246730	B	0.649
2,6-Dimethylnaphthalene	19:56	14962	5534	1.240		24.489343		24.489343	B	0.792
2,6-Dimethylnaphthalene-d1	19:49	246281	111991	1.009	500.0	487.425656	97.49	487.425656		0.713
C2 Alkylnaphthalenes				1.240		24.489343		24.489343		0.619
Acenaphthylene	20:48	15521	5290	1.221		14.396127		14.396127	J	0.239
Acenaphthylene-d8	20:46	441409	201690	1.646	500.0	535.537616	107.11	535.537616		0.411
Acenaphthene-d10	21:16	250314	116345	1.000	500.0	500.000000	100.00	500.000000		0.988
Acenaphthene	21:21	2270	1061	0.740		3.476939		3.476939	BJ	0.779
2,3,5-Trimethylnaphthalene	22:30	2694	938	1.140		4.798436		4.798436	J B	0.646
C3 Alkylnaphthalenes				1.140		4.798436		4.798436	J	0.505
Fluorene d-10	22:46	648836	281910	0.805	1000	969.590995	96.96	969.590995		0.572
Fluorene-C13	22:52	631574	273760	0.752	1000	1009.42123	100.94	1009.42123		0.502
Fluorene	22:52	8490	3288	0.892		11.444452		11.444452	BJ	0.916
Phenanthrene-d10	25:42	415861	182036	0.793	500.0	508.339338	101.67	508.339338		0.405
Phenanthrene	25:46	301314	140568	1.210		299.365877		299.365877	B	0.528
Anthracene-d10								ND		0.000000
Anthracene	25:54	25224	10205	1.065		28.486200		28.486200		0.600
1-Methylphenanthrene	27:39	6659	2671	0.871		9.194917		9.194917	J	0.434
Fluoranthene-d10	29:20	408362	180754	0.761	500.0	519.706761	103.94	519.706761		0.372
Fluoranthene	29:23	108811	47518	1.298		102.632519		102.632519	B	0.432
Pyrene-d10	30:02	515947	198576	1.000	500.0	500.000000	100.00	500.000000		0.283
Pyrene	30:04	114330	44459	1.319		106.138564		106.138564	B	0.425
Terphenyl-d14	30:30	600138	270862	0.762	1000	964.846451	96.48	964.846451		0.272
Benzo(a)Anthracene-d12	33:36	301631	133756	0.514	500.0	568.590092	113.72	568.590092		0.429
Benzo(a)anthracene	33:40	4471	2089	1.385		5.352136		5.352136	BJ	0.229
Chrysene-d12	33:43	283434	118426	0.516	500.0	532.286513	106.46	532.286513		0.427
Chrysene	33:47	13982	5081	1.333		18.498271		18.498271	BJ	0.269
Benzo(b)Fluoranthene-d12	36:35	271644	114377	0.895	500.0	530.831192	106.17	530.831192		0.834
Benzo(k)Fluoranthene-d12	36:39	323104	122267	1.030	500.0	548.277815	109.66	548.277815		0.724
Benzo(b)fluoranthene	36:37	31665	11669	1.446		40.320401		40.320401	B	0.537
Benzo(k)fluoranthene	36:42	3018	1162	1.093		4.271126		4.271126	BJ	0.664
Benzo(e)pyrene-d12	37:23	286013	110606	1.000	500.0	500.000000	100.00	500.000000		0.746
Benzo(e)pyrene	37:27	3212	1083	1.495		4.426711		4.426711	BJ	0.700
Benzo(a)Pyrene-d12	37:33	242634	84845	0.776	500.0	546.581978	109.32	546.581978		0.961
Benzo(a)pyrene	37:36	1360	494	1.286		2.179644		2.179644	BJ	0.814
Perylene-d12	37:46	276427	95583	0.936	500.0	516.155165	103.23	516.155165		0.797
Perylene	37:50	2194	636	1.140		3.481321		3.481321	BJ	0.815
3-Methylcholanthrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2M1AA	Prep Batch	6100060	Lot No	H6D030241-002
Data File	/20060427s1/yh2h2m2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90337	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	19:49	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	146145	41183	0.402	500.0	636.024478	127.20	636.024478		0.563
Indeno(1,2,3-cd)pyrene-d12	41:07	271821	65763	0.772	500.0	615.450736	123.09	615.450736		0.322
Indeno(1,2,3-cd)pyrene	41:11	2591	668	1.259		3.785027		3.785027	BJ	0.709
Dibenz(a,h)anthracene				1.961				ND		0.495
Benzo(ghi)Perylene-d12	42:06	196663	53612	0.561	500.0	612.947415	122.59	612.947415		0.443
Benzo(ghi)perylene	42:11	2553	618	1.639		3.959793		3.959793	BJ	0.669
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2M1AA	Prep Batch	6100060	Lot No	H6D030241-002
Data File	/20060427s1/yh2h2m2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90337	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/27/06 19:49	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	258		103				
	Naphthalene	16:17	16:06	11	757191	✓	343267			MBB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	208		83				
	Naphthalene-d8	16:13	16:03	10	347842	✓	143291			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	113		45				
	2-Methylnaphthalene	18:08	18:08	0	50467	✓	19668			AVB	M
	1-Methylnaphthalene	18:27	18:27	0	30877	✓	12403			AVB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	118		47				
	2-Methylnaphthalene-d10	18:03	18:03	0	249683	✓	115381			MVV	
	1-Methylnaphthalene-d10	18:21	18:22	-1	226518	✓	97668			MVV	
	Acenaphthylene	20:48	20:53	-5	15521	✓	5290			MBB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	233		93				
	Biphenyl	19:29	19:31	-2	48246	✓	18391			MVV	
	Acenaphthene	21:21	21:26	-5	2270	✓	1061			MVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	220		88				
	2,6-Dimethylnaphthalene	19:56	19:59	-3	14962	✓	5534			ABB	M
160					160.0000		160.0000				
	Noise	00:00	00:00	0	158		63				
	Acenaphthylene-d8	20:46	20:51	-5	441409	✓	201690			ABV	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	178		71				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	230		92				
	Acenaphthene-d10	21:16	21:21	-5	250314	✓	116345			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	298		119				
	Fluorene	22:52	22:56	-4	8490	✓	3288			AVB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	168		67				
	2,6-Dimethylnaphthalene	19:49	19:52	-3	246281	✓	111991			ABB	M
169					169.0000		169.0000				
	Noise	00:00	00:00	0	143		57				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	165		66				
	2,3,5-Trimethylnaphthal	22:30	22:32	-2	2694		938			AVB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	138		55				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2M1AA	Prep Batch	6100060	Lot No	H6D030241-002
Data File	/20060427s1/yh2h2m2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90337	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/27/06 19:49	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					172.0000		172.0000				
	Fluorene-C13	22:52	22:56	-4	631574	✓	273760			AVB	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	168		67				
	Fluorene d-10	22:46	22:51	-5	648836	✓	281910			AVV	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	233		93				
	Phenanthrene	25:46	25:50	-4	301314	✓	140568			ABB	M
	Anthracene	25:54	25:57	-3	25224	✓	10205			ABB	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	128		51				
	Phenanthrene-d10	25:42	25:46	-4	415861	✓	182036			ABV	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	138		55				
	1-Methylphenanthrene	27:39	27:43	-4	6659	✓	2671			AVB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	203		81				
	Fluoranthene	29:23	29:25	-2	108811	✓	47518			ABB	M
	Pyrene	30:04	30:07	-3	114330	✓	44459			ABB	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	113		45				
	Fluoranthene-d10	29:20	29:22	-2	408362	✓	180754			AVV	
	Pyrene-d10	30:02	30:03	-1	515947	✓	198576			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	85		34				
	Benzo(a)anthracene	33:40	33:40	0	4471	✓	2089			AVV	M
	Chrysene	33:47	33:48	-1	13982	✓	5081			MVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	88		35				
	Benzo(a)Anthracene-d12	33:36	33:37	-1	301631	✓	133756			ABV	
	Chrysene-d12	33:43	33:44	-1	283434	✓	118426			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	75		30				
	Terphenyl-d14	30:30	30:32	-2	600138	✓	270862			ABB	
252					252.0000		252.0000				
	Noise	00:00	00:00	0	178		71				
	Benzo(b)fluoranthene	36:37	36:39	-2	31665	✓	11669			ABV	M
	Benzo(k)fluoranthene	36:42	36:41	1	3018	✓	1162			AVB	M
	Benzo(e)pyrene	37:27	37:26	1	3212	✓	1083			AVV	M
	Benzo(a)pyrene	37:36	37:35	1	1360	✓	494			AVB	M
	Perylene	37:50	37:49	1	2194	✓	636			AVV	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	165		66				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2M1AA	Prep Batch	6100060	Lot No	H6D030241-002
Data File	/20060427s1/yh2h2m2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90337	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/27/06 19:49	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

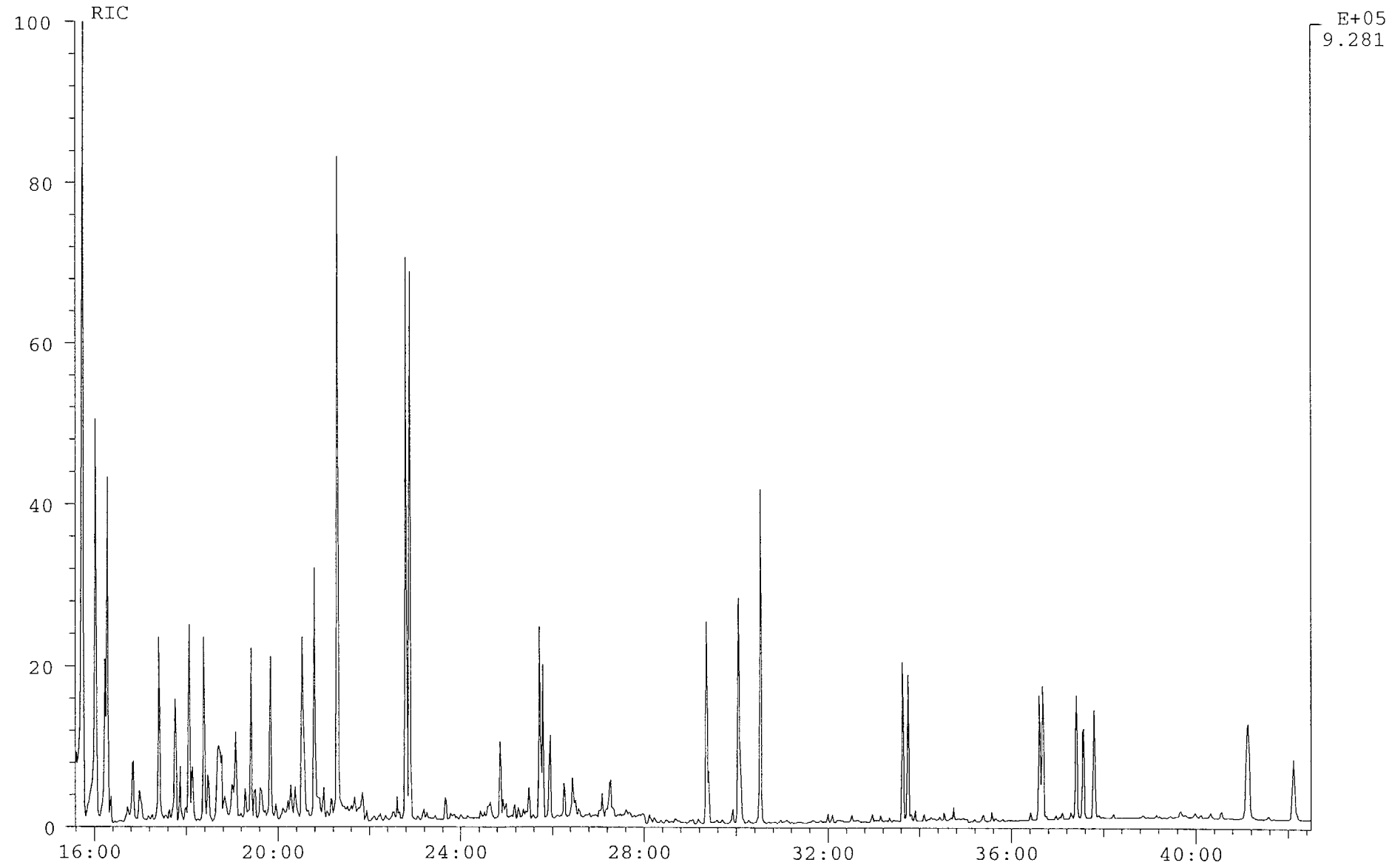
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	271644		114377			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	323104		122267			AVB	
	Benzo(e)pyrene-d12	37:23	37:22	1	286013		110606			AVV	
	Benzo(a)Pyrene-d12	37:33	37:31	2	242634		84845			AVV	
	Perylene-d12	37:46	37:45	1	276427		95583			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	80		32				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	118		47				
	Indeno(1,2,3-cd)pyrene	41:11	41:09	2	2591		668			AVV	M
	Benzo(ghi)perylene	42:11	42:10	1	2553		618			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	80		32				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	55		22				
	Indeno(1,2,3-cd)pyrene-	41:07	41:04	3	271821		65763			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:03	3	196663		53612			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	50		20				
	Dibenz(ah)Anthracene-d1	41:05	41:02	3	146145		41183			ABB	M
302					302.0000		302.0000				
	Noise	00:00	00:00	0	28		11				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	25		10				

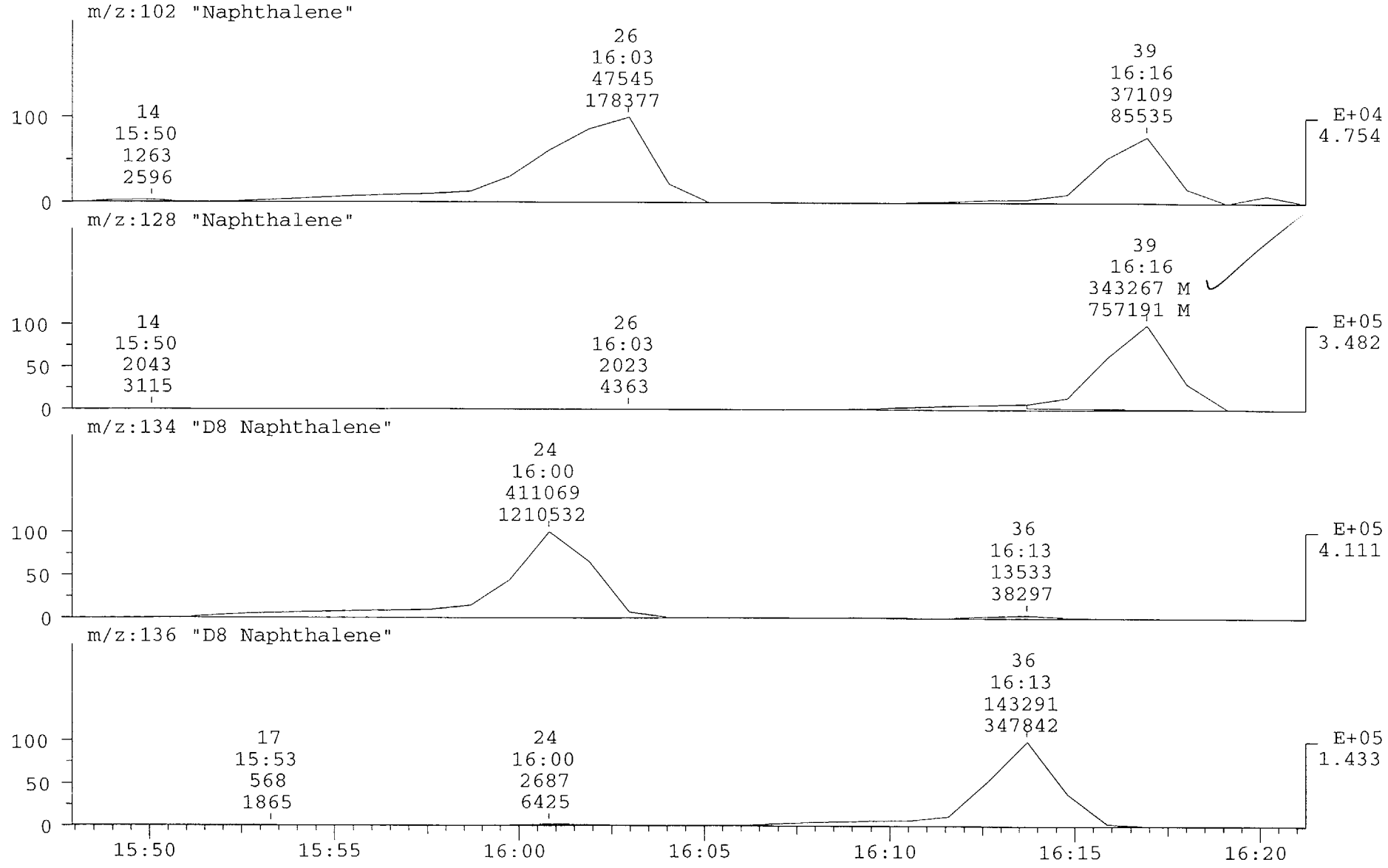
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int / Calc: JMN 4/27/06
QC Rev JMN 4/28/06

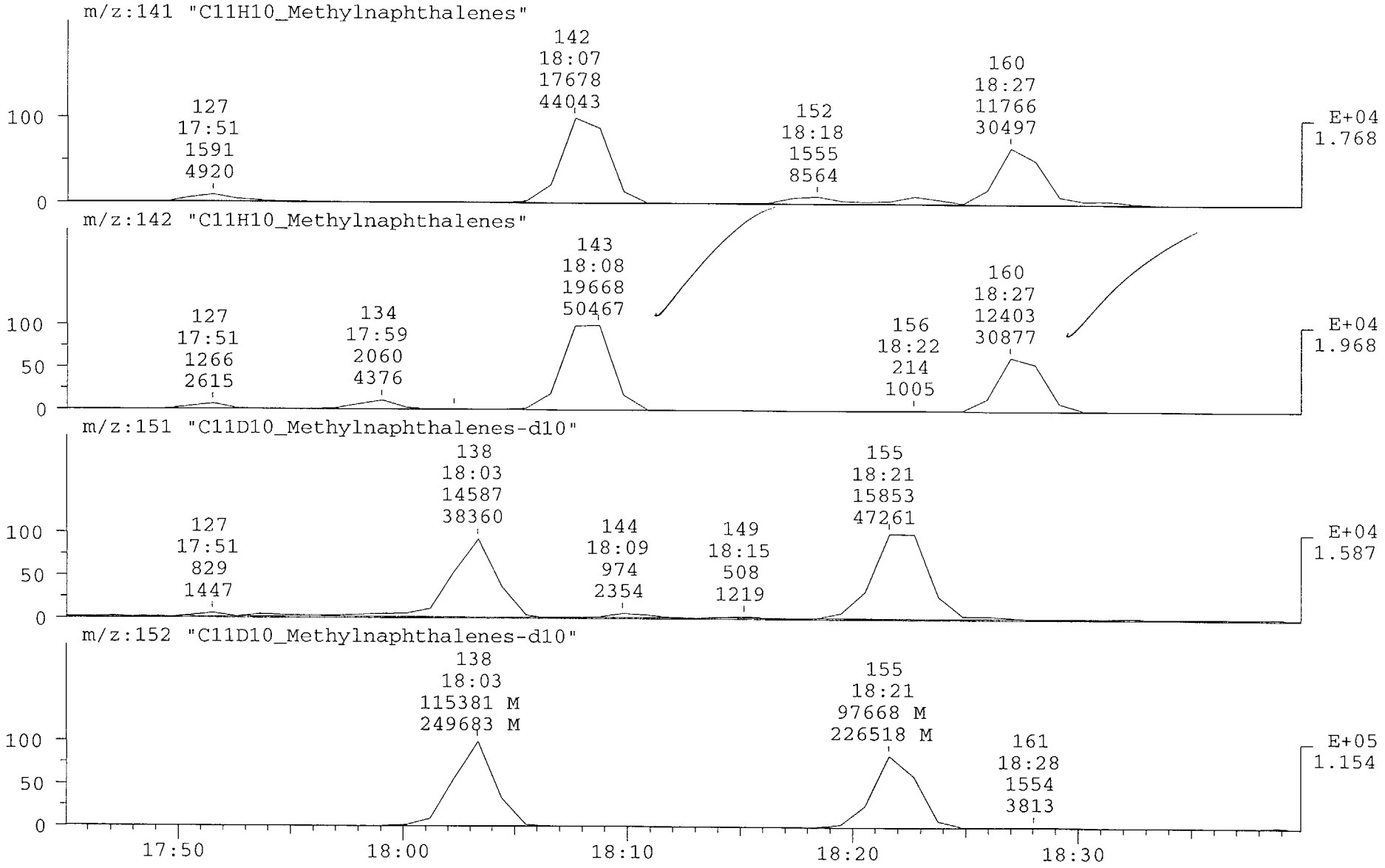
CHRO:	yh2h2m2	27-APR-06	Elapse:	49:19	1735
Samp:	WO=h2h2m1aa Meth=YA1 Dil=1		Start :	19:49:00	1384
Comm:	Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i				
Mode:	EI +VE + LMR (LIN) UP LR NETCDF		Study :	6100060	
Oper:	JMN	Client: H6D030241-002	Inlet :		
Peak:	100.00 ppm	Label wndw: 1731 > 1739	Masses:	0 > 308	
Area:	5, 0.50, 15	Baseline : 100, 3	Label :	0, 3.0	
Disp:	Height Area				



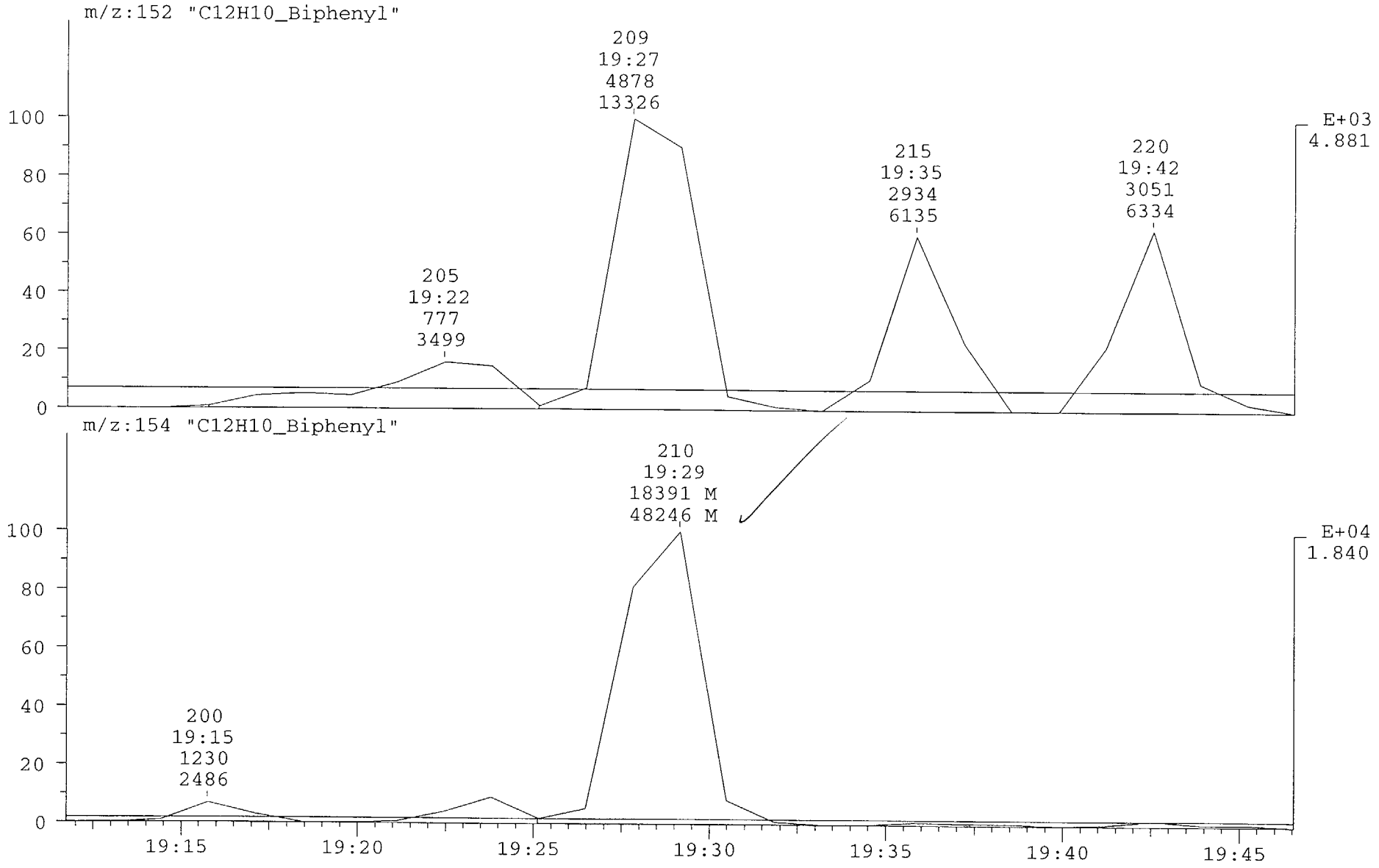
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



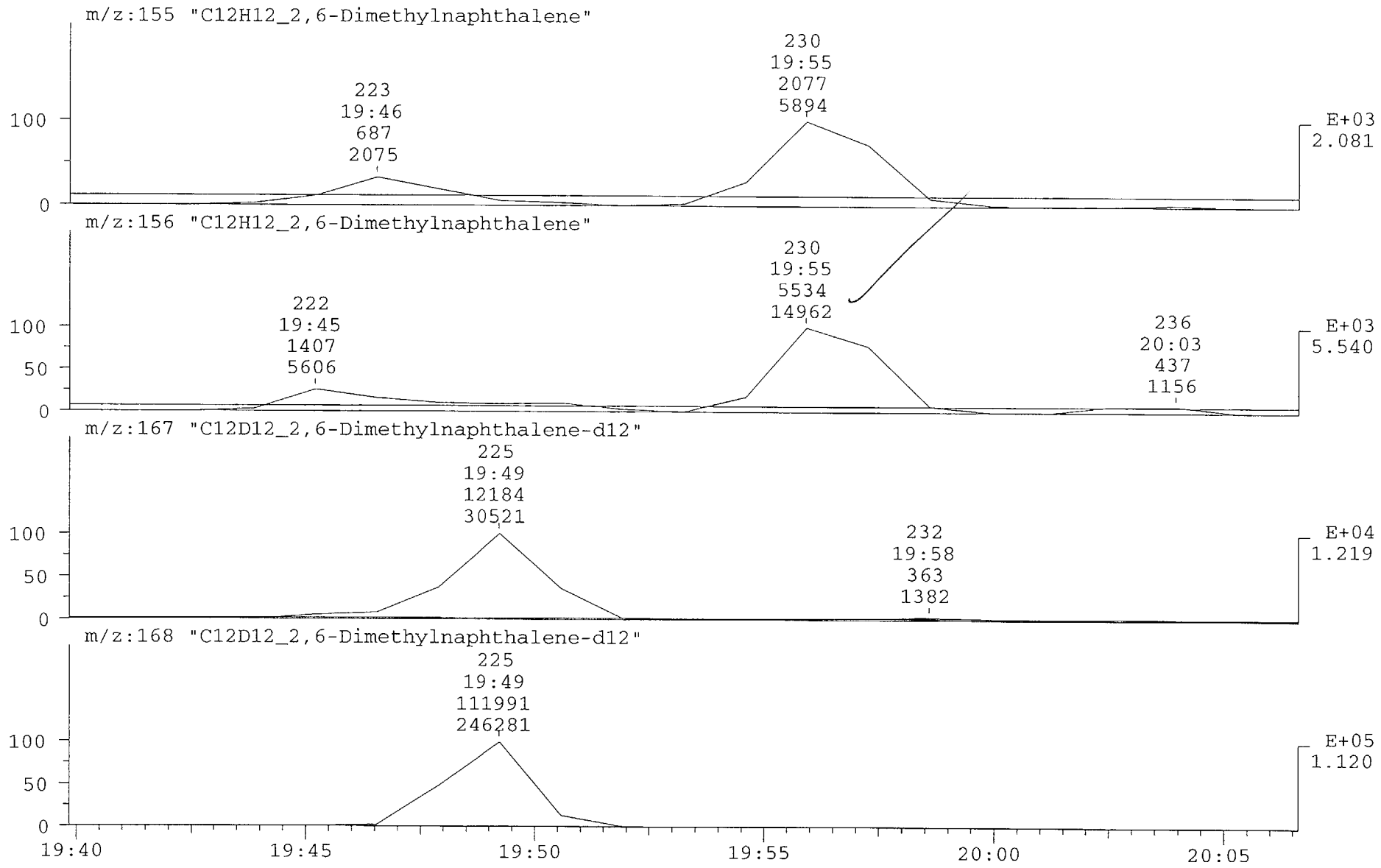
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



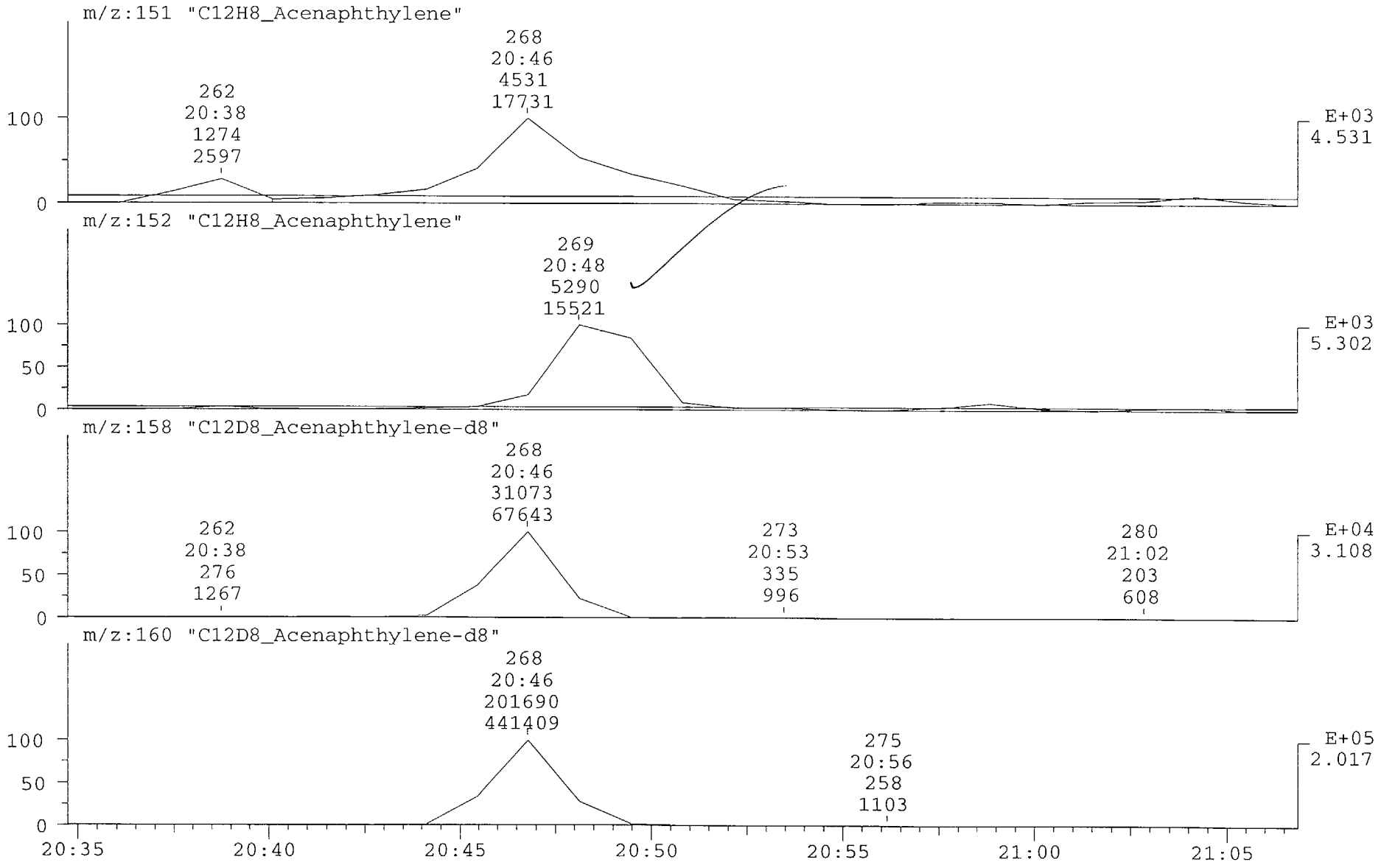
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



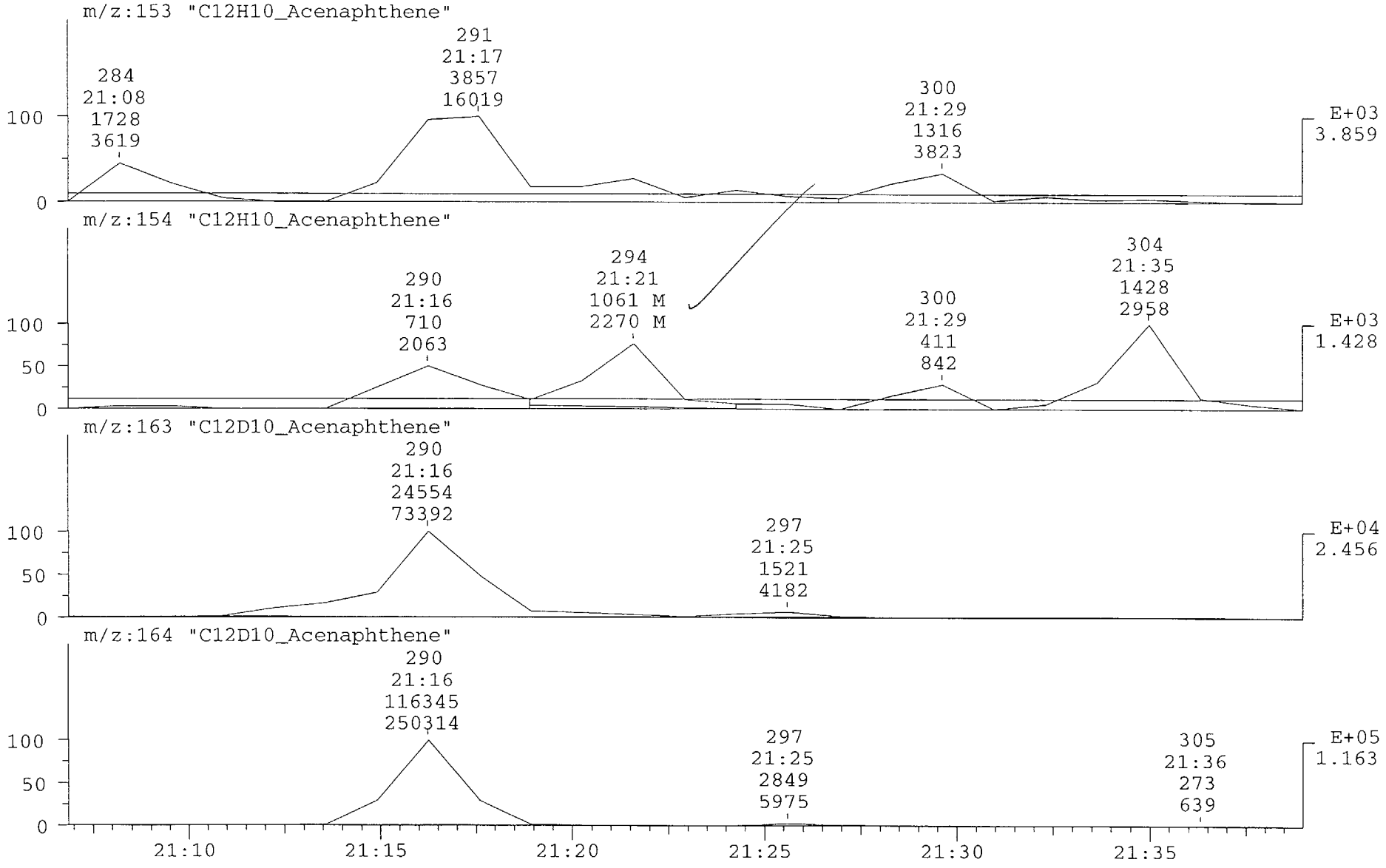
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



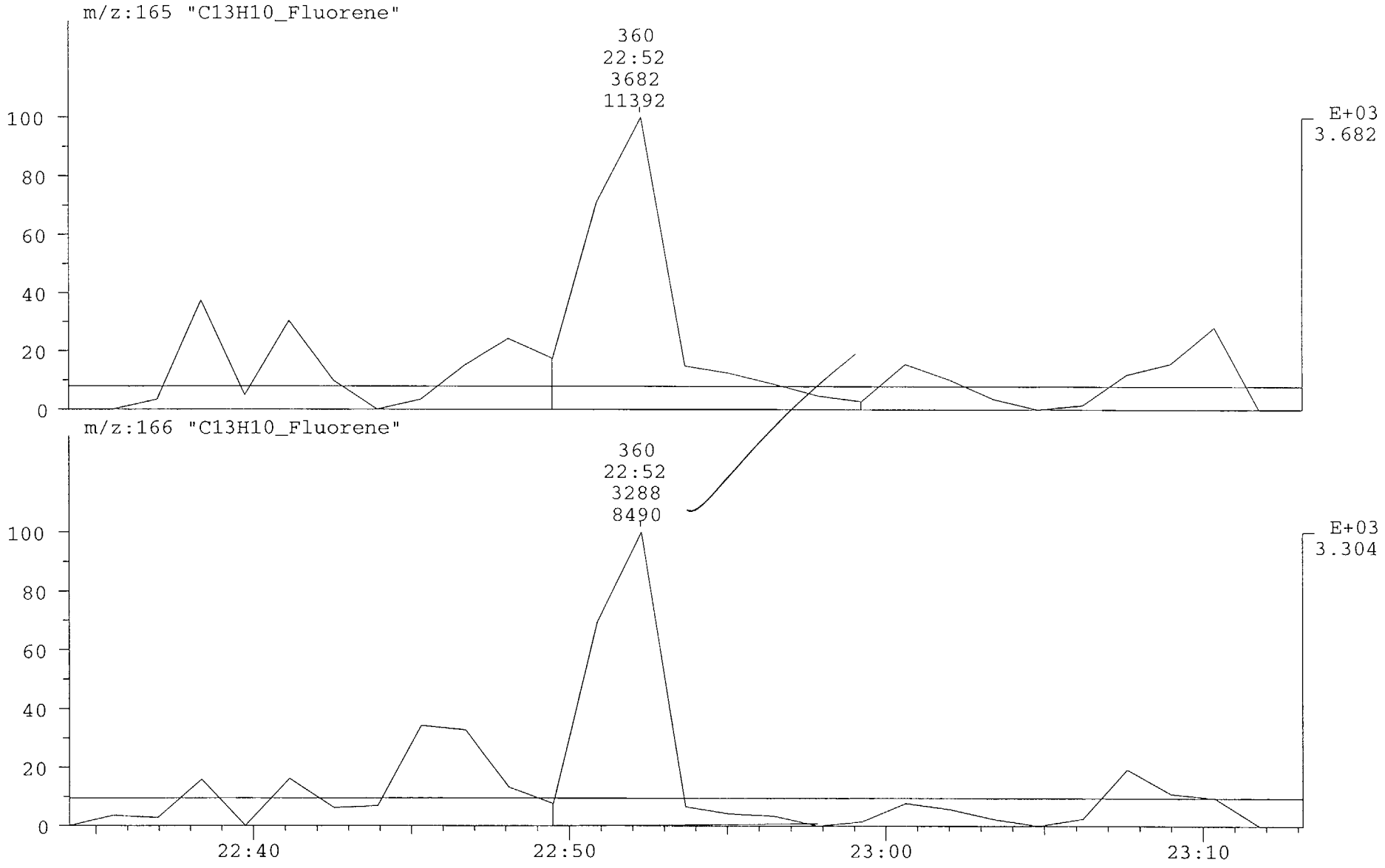
CHRO: yh2h2m2 27-APR-06 Elapse: 37:48 1170
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



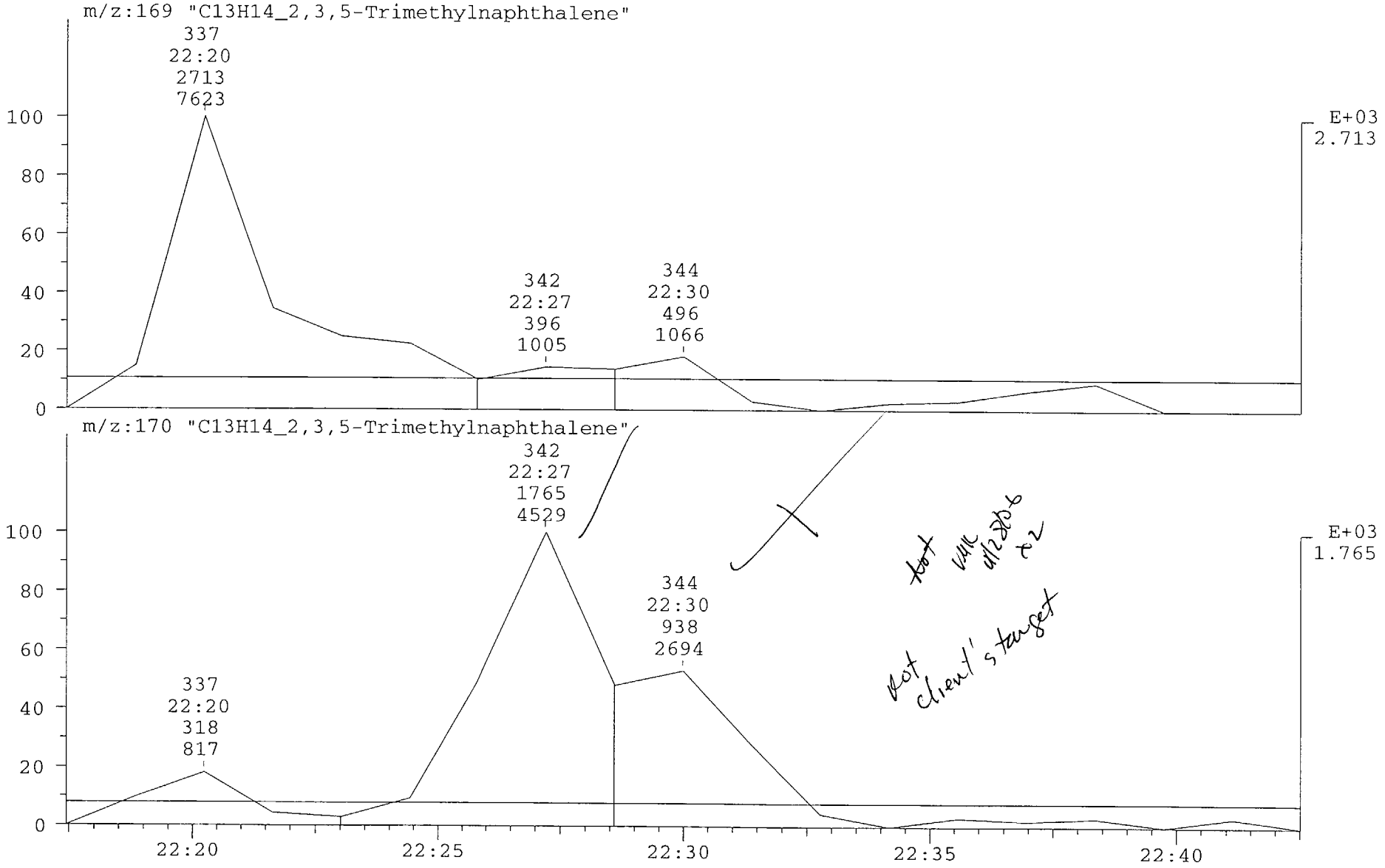
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



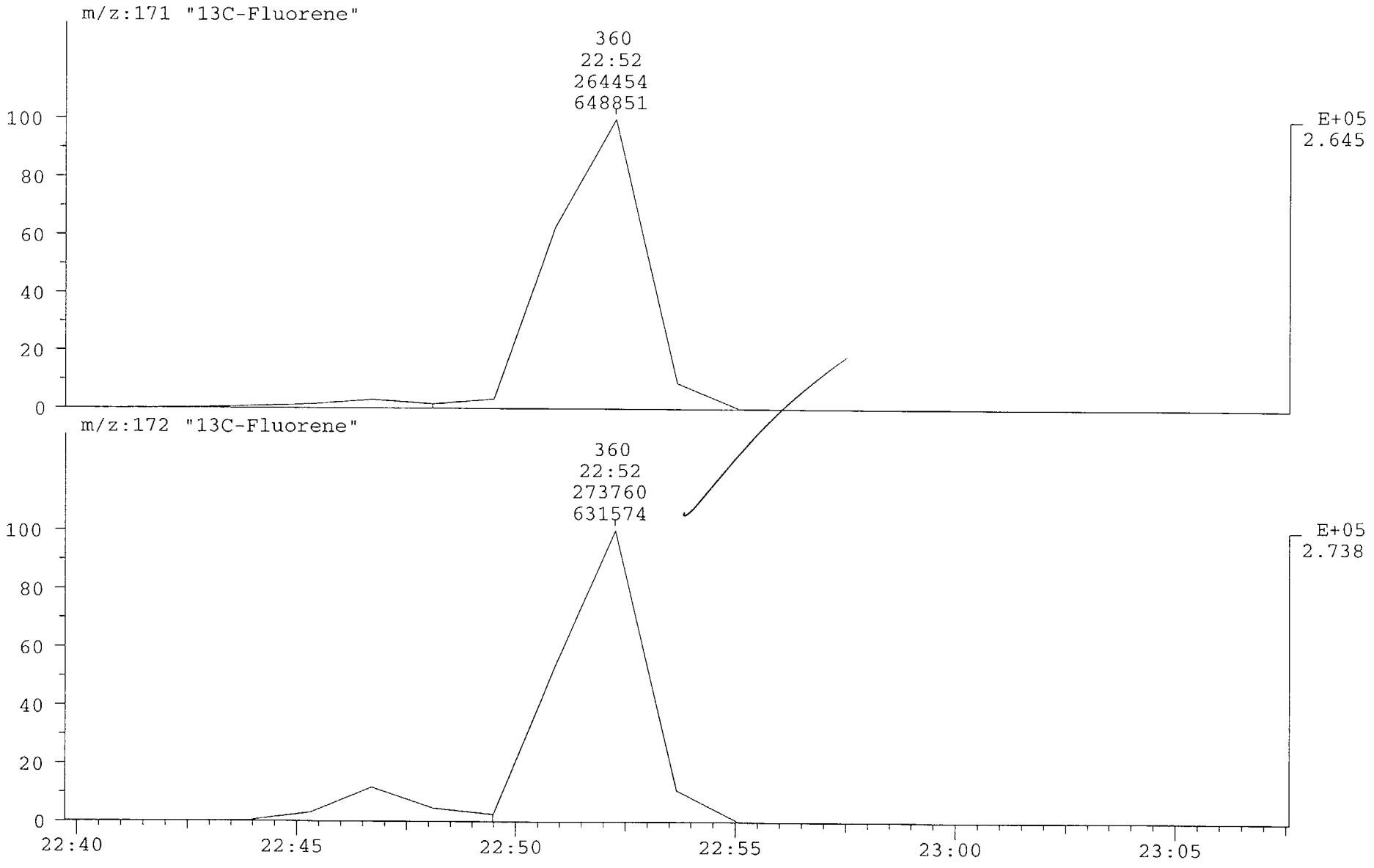
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



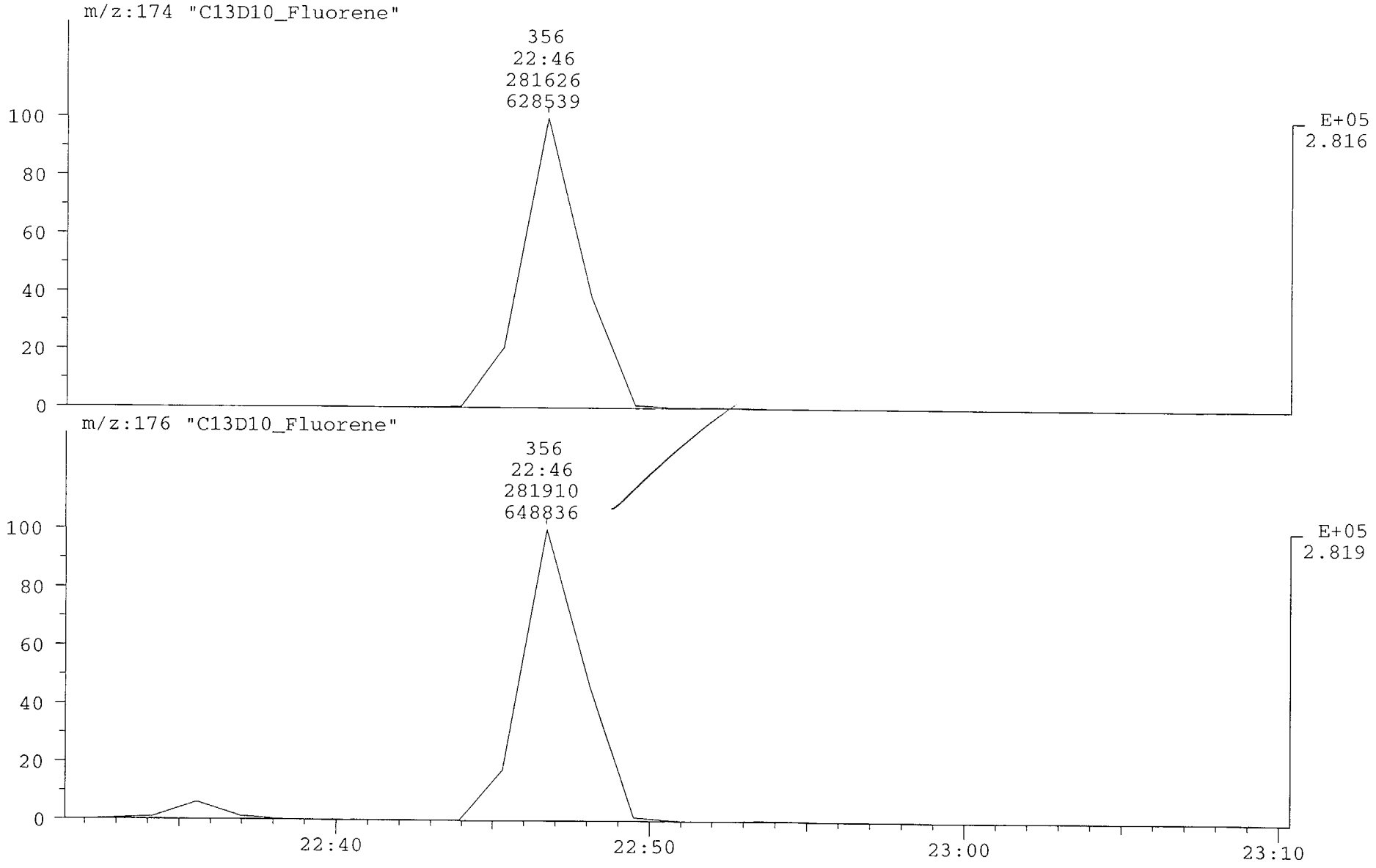
not within 1/2 SD x2

not client's target

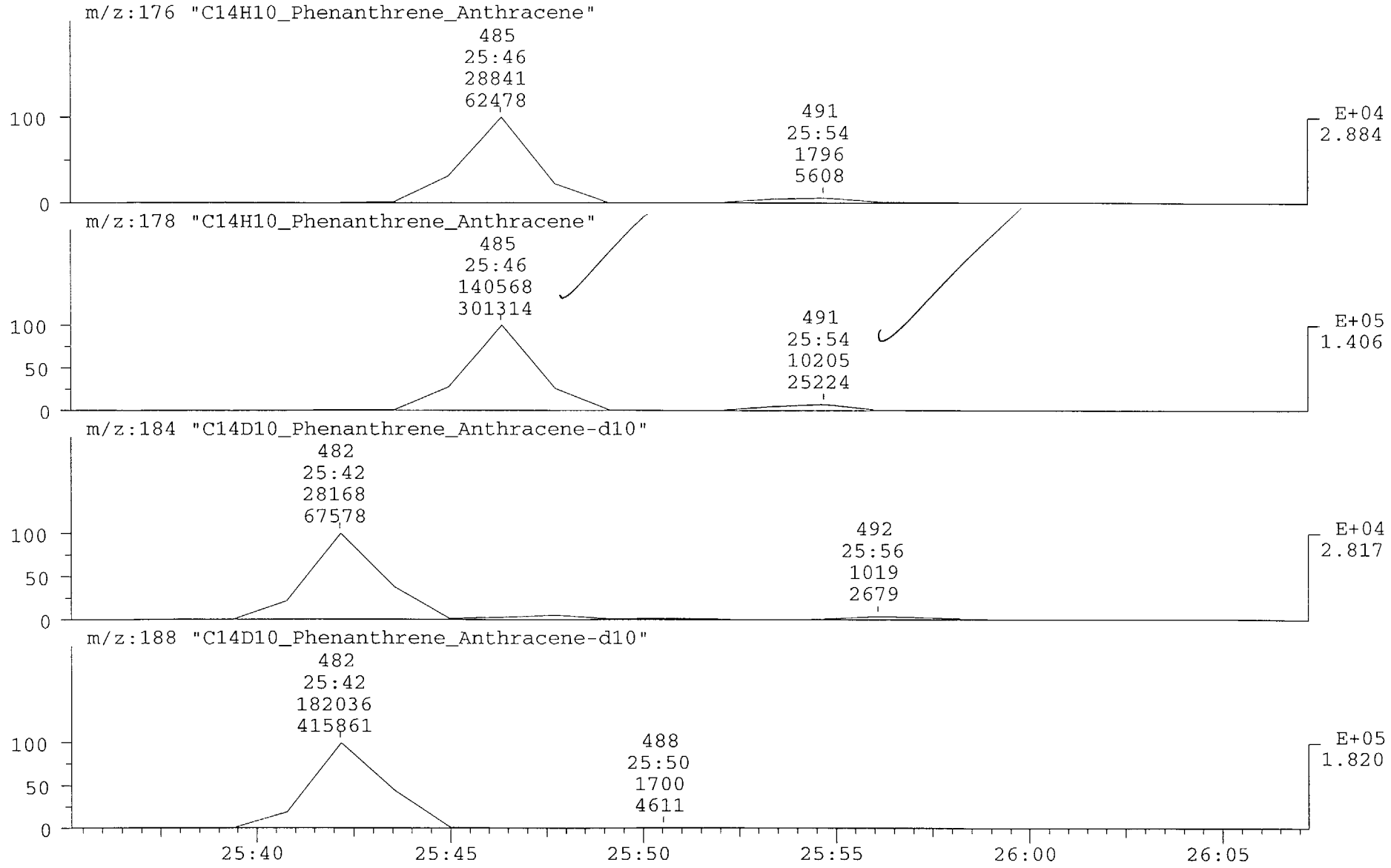
```
CHRO:  yh2h2m2                                  27-APR-06   Elapse:  16:03.9      26
Samp:  WO=h2h2m1aa Meth=YA1 Dil=1                           Start :  19:49:00   1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                     Study :  6100060
Oper:  JMN           Client:  H6D030241-002                 Inlet :
Peak:  100.00  ppm     Label wndw:   351 > 371              Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1                Label :  -2, 3.0
Disp:  Height  Area
```



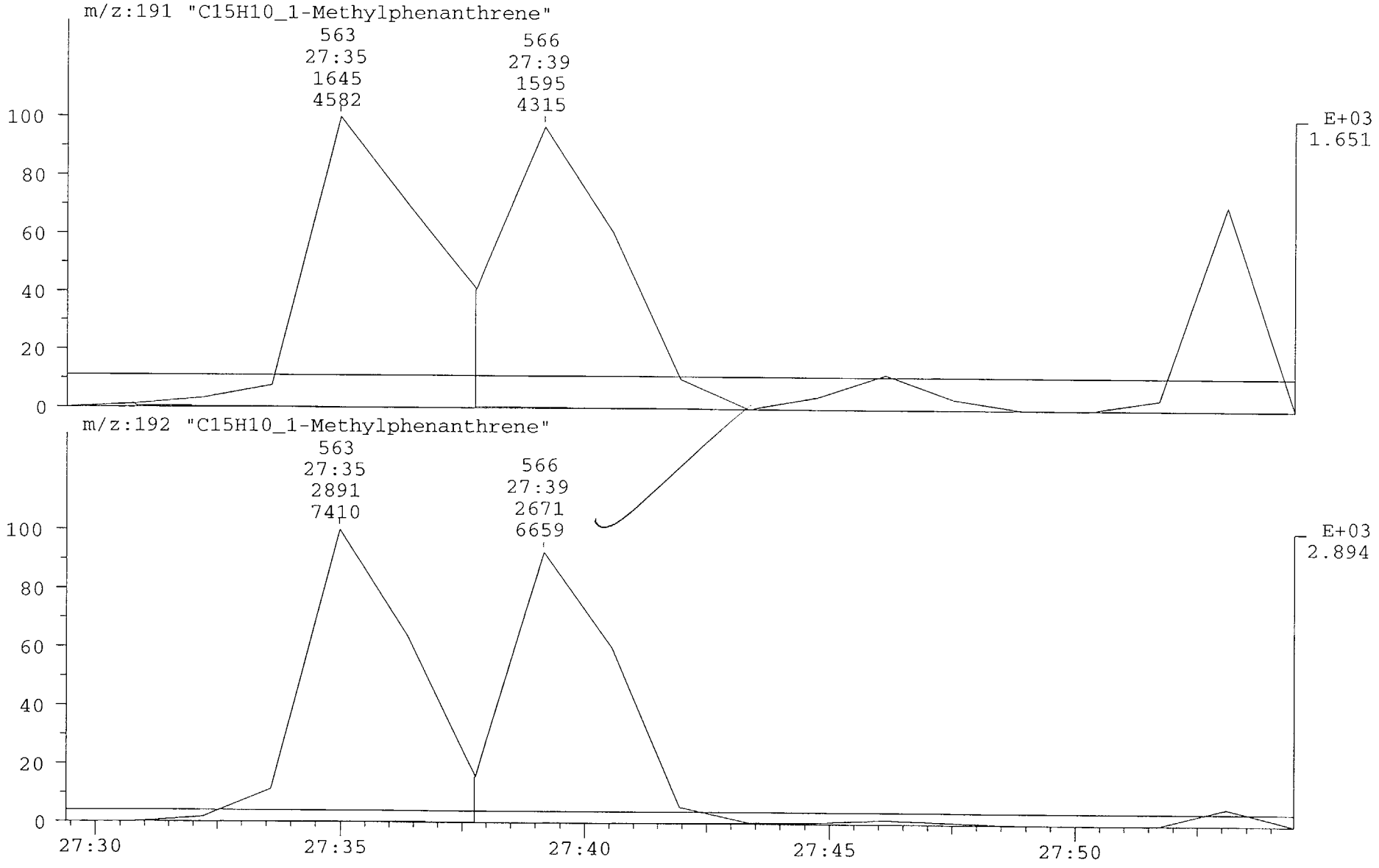
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 345 > 373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



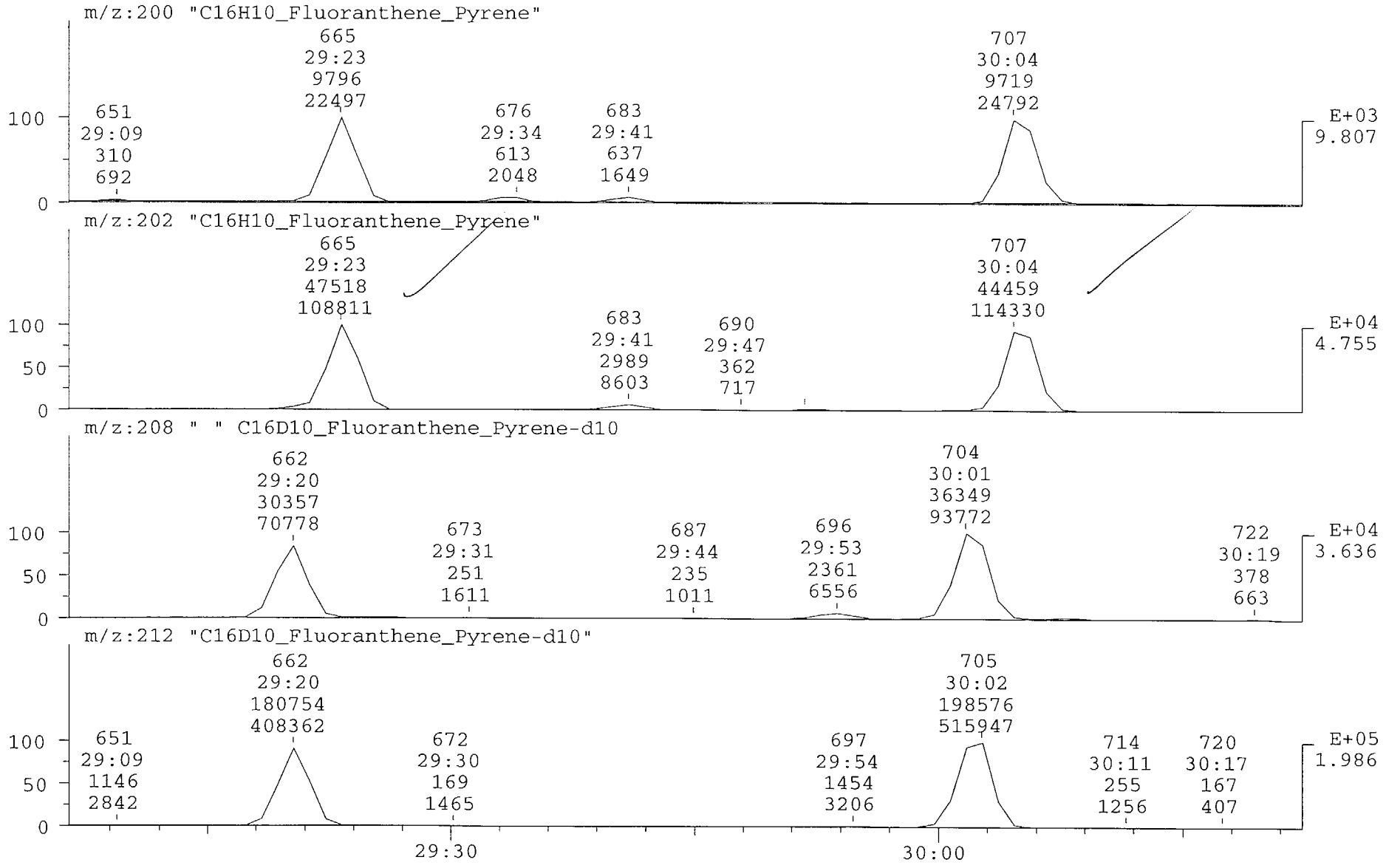
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



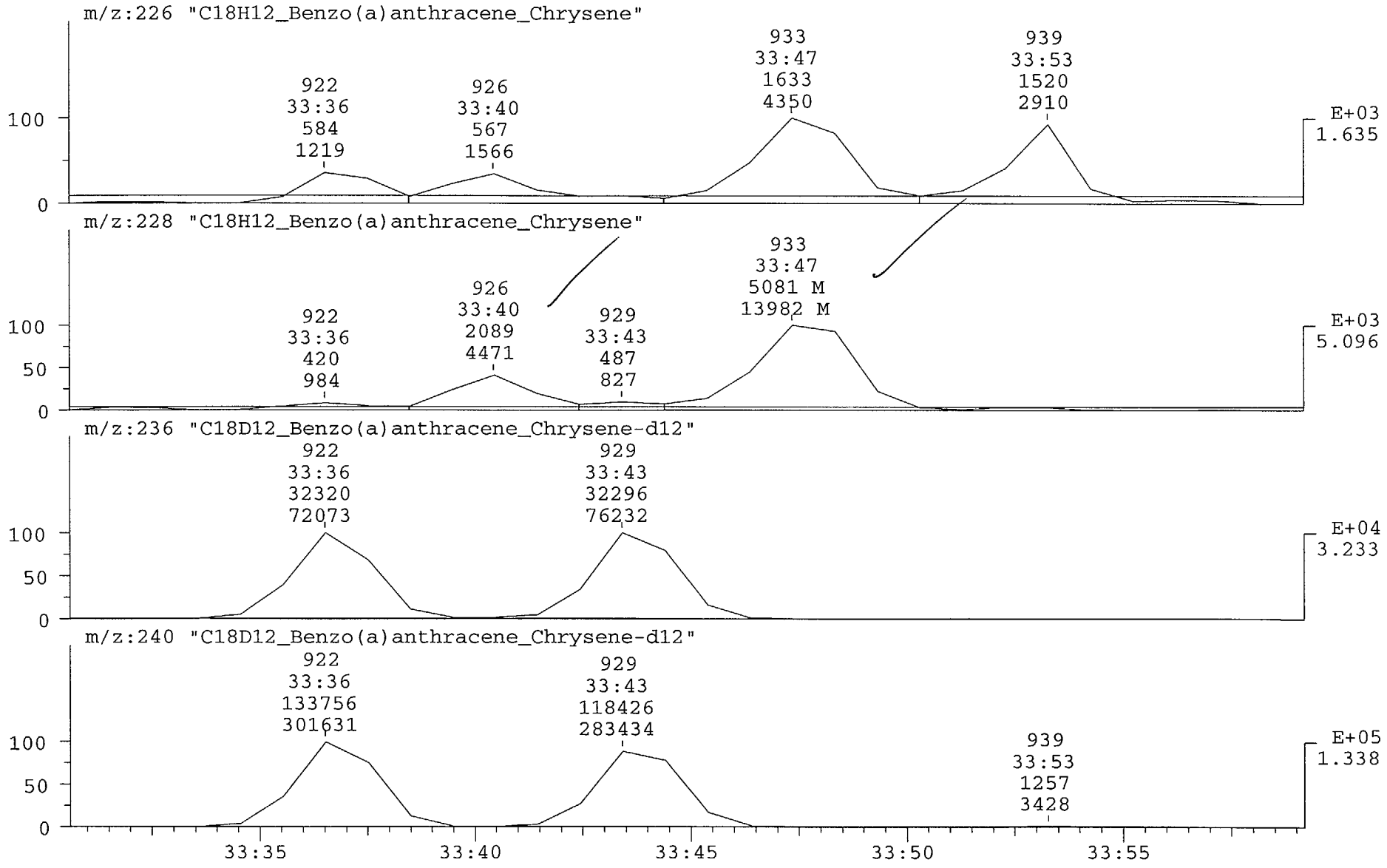
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



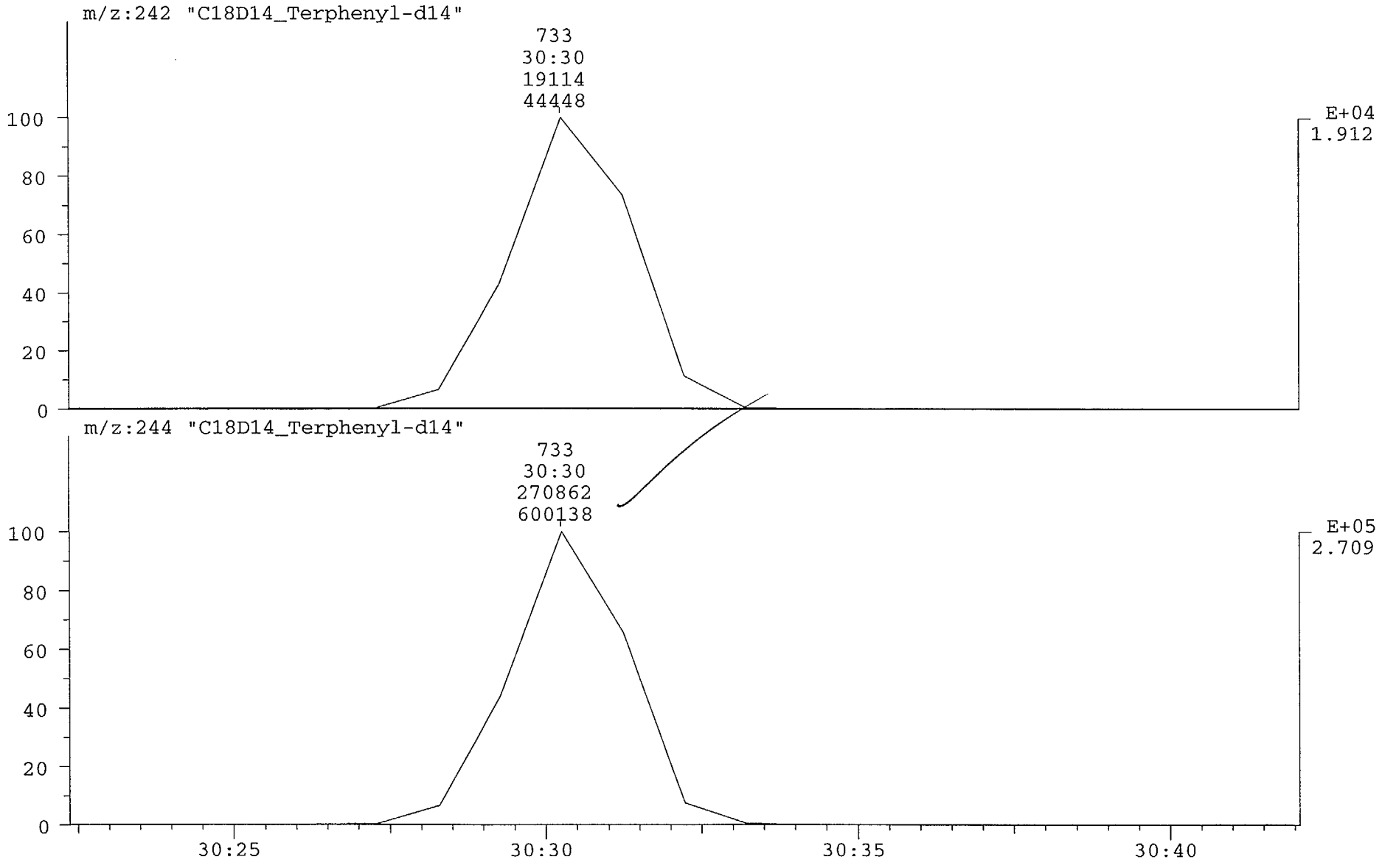
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



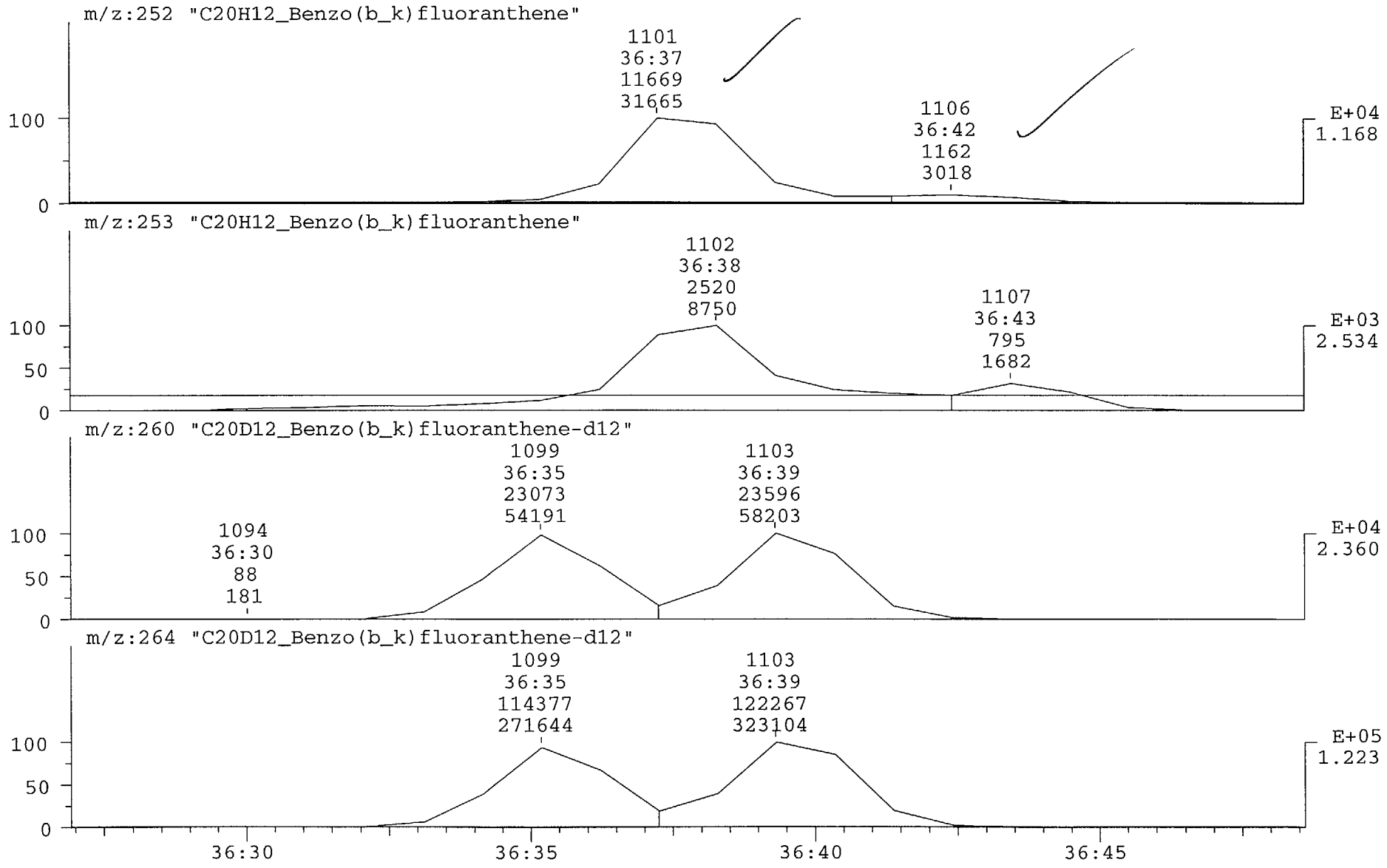
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



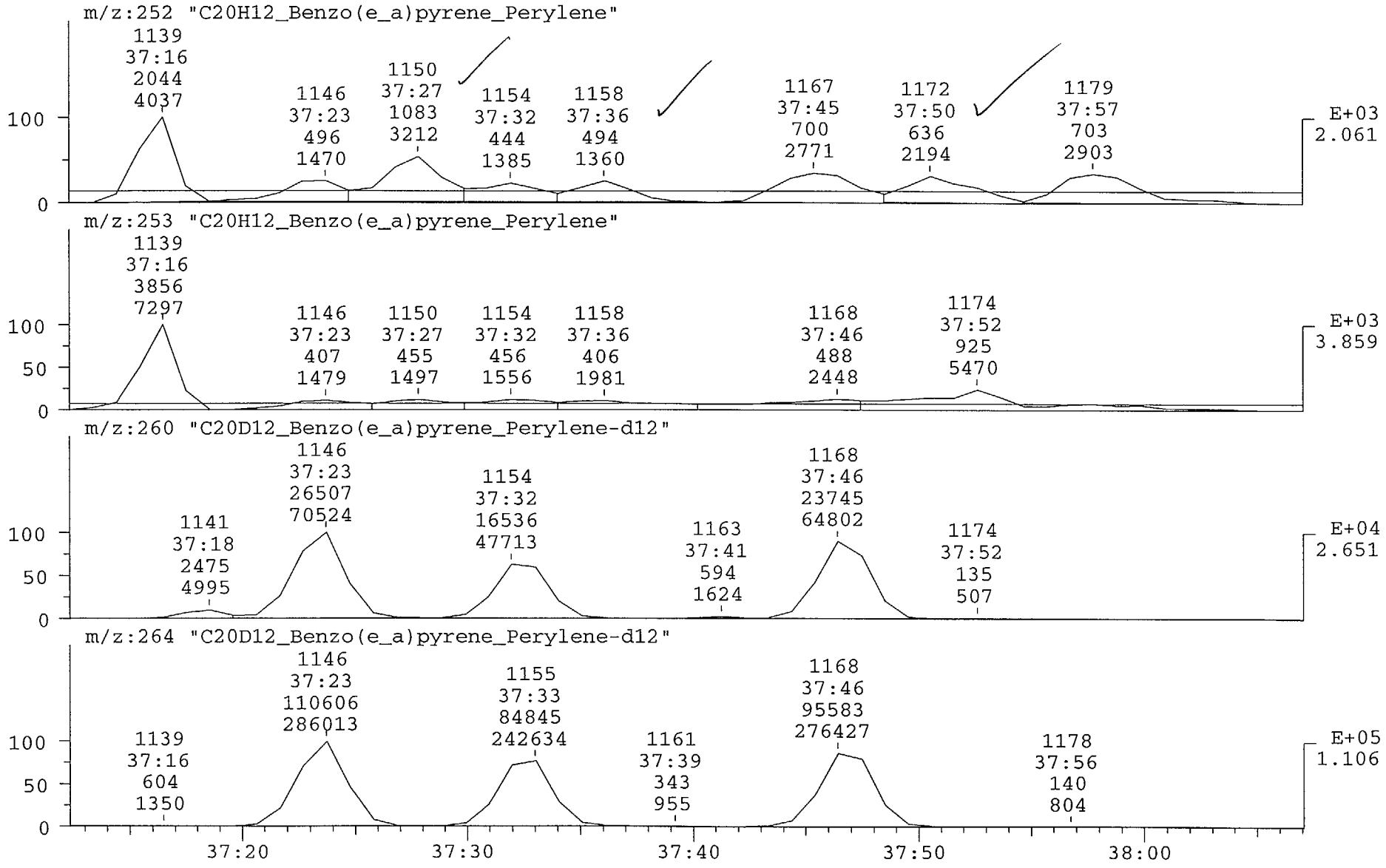
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 725 > 745 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



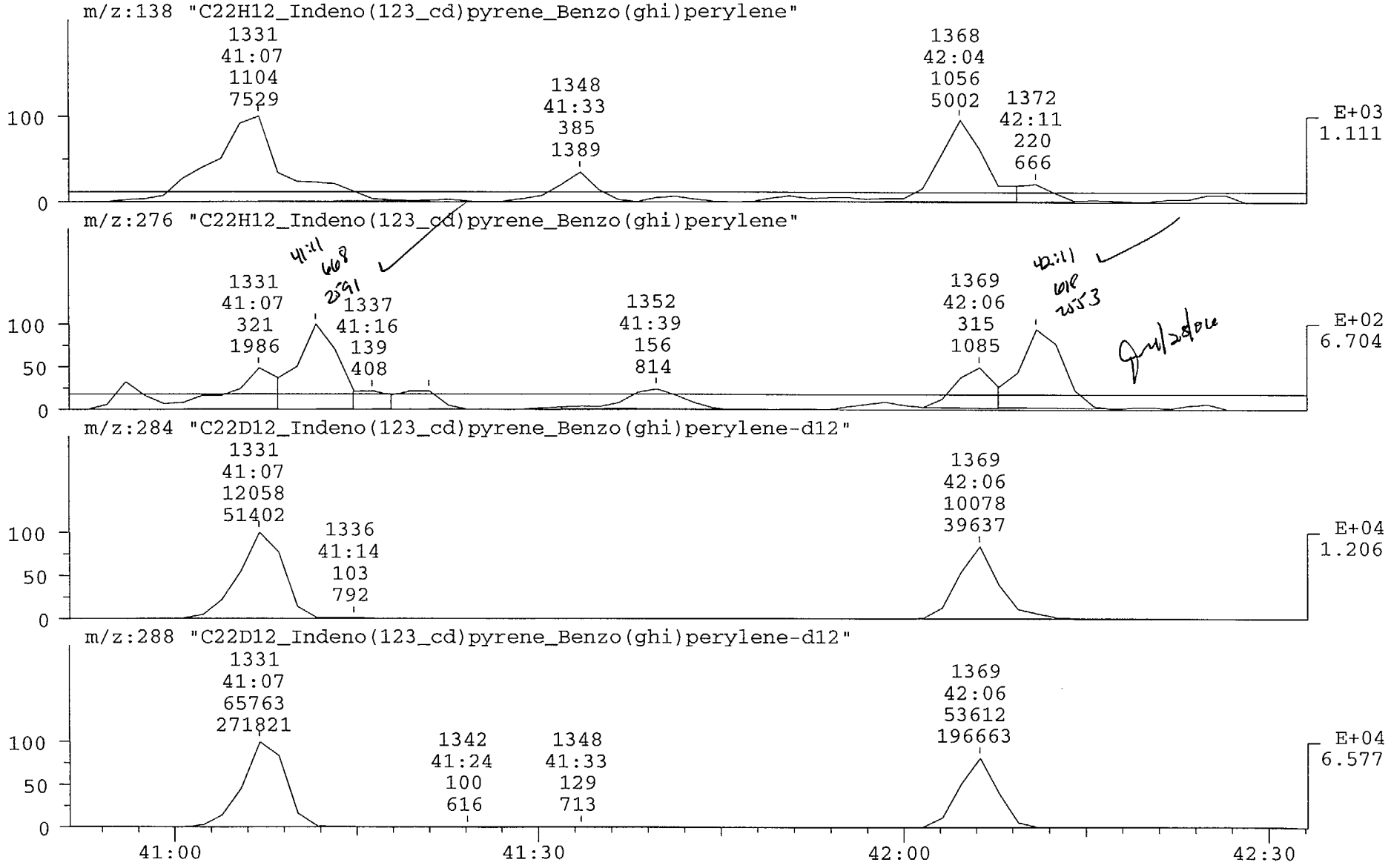
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



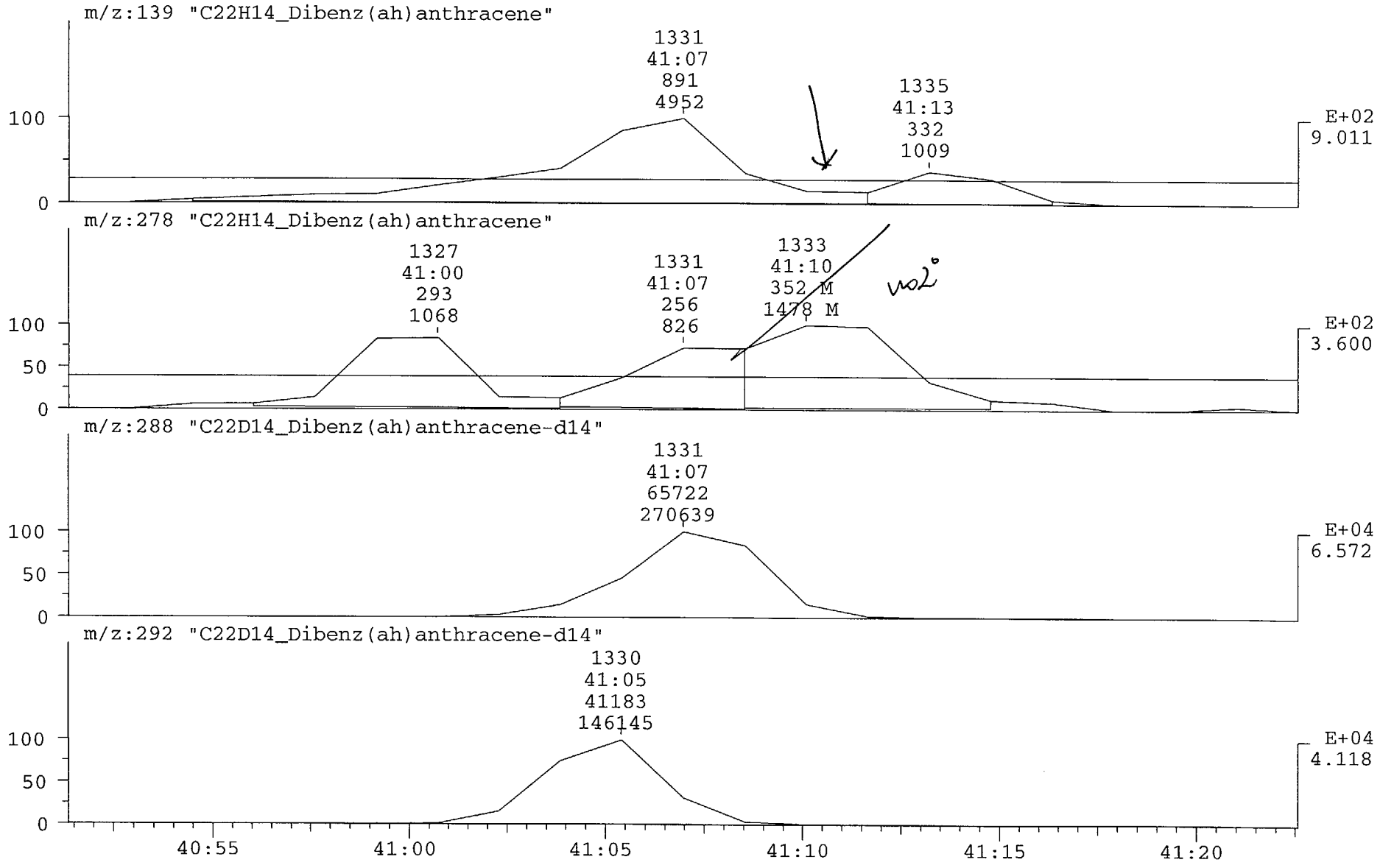
CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2m2 27-APR-06 Elapse: 16:03.9 26
Samp: WO=h2h2m1aa Meth=YA1 Dil=1 Start : 19:49:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-002 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



3512

```
File: YH2H2M2.D
Date Acquired: 27 Apr 2006   7:49 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H2M1AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  18
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Thu Apr 27 20:53:03 2006
d:\cdffiles\YH2H2M2.CDF Translated at Thu Apr 27 20:53:03 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 15:19:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h2m2.dat
NetCDF File (input): /usr/users/hp/data/yh2h2m2.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 15:19:02 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	**Work Order #....:**	H2H2T1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.5**	**J**	**20**	**0.98**	**ng/sampl**
Acenaphthylene	ND		20	0.29	ng/sampl
Anthracene	**7.8**	**J**	**20**	**0.65**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.48	ng/sampl
Benzo(b)fluoranthene	**5.8**	**J**	**20**	**1.2**	**ng/sampl**
Benzo(k)fluoranthene	**5.5**	**J**	**20**	**1.5**	**ng/sampl**
Benzo(ghi)perylene	**15**	**B J**	**20**	**0.56**	**ng/sampl**
Benzo(a)pyrene	**3.4**	**B J**	**20**	**1.8**	**ng/sampl**
Benzo(e)pyrene	**5.1**	**B J**	**20**	**1.5**	**ng/sampl**
Chrysene	**4.7**	**B J**	**20**	**0.50**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.65	ng/sampl
Fluoranthene	**26**	**B**	**20**	**0.28**	**ng/sampl**
Fluorene	**3.3**	**J**	**20**	**0.69**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**4.7**	**B J**	**20**	**0.60**	**ng/sampl**
2-Methylnaphthalene	**13**	**B J**	**20**	**0.56**	**ng/sampl**
Naphthalene	**30**	**B J**	**20**	**0.83**	**ng/sampl**
Perylene	ND		20	1.7	ng/sampl
Phenanthrene	**39**	**B J**	**20**	**0.56**	**ng/sampl**
Pyrene	**20**	**B J**	**20**	**0.27**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	96	20 - 120
Acenaphthylene-d8	106	20 - 120
Phenanthrene-d10	111	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	118	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	110	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	111	30 - 120
Perylene-d12	107	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	116	30 - 120
Benzo(ghi)perylene-d12	113	30 - 120

STL Knoxville - ACS

Sample ID: G-2929/2930-R1-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 003	**Work Order #....:**	H2H2T1AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	104	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2T1AA	**Prep Batch**	6100063	**Lot No**	H6D030241-003
Data File	/20060418s2/yh2h2t.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90216	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	4/19/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	03:36	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09YA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	86189	24746	1.748	500.0	462.780165	92.56	462.780165		0.493
Naphthalene	16:01	6196	1537	1.211		29.686490		29.686490	B	0.834
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:03	1925	800	1.269		13.450961		13.450961	BJ	0.561
2-Methylnaphthalene-d10	17:58	56406	22817	1.104	500.0	479.606665	95.92	479.606665		0.537
1-Methylnaphthalene	18:23	1063	415	1.365		7.712287		7.712287	BJ	0.638
1-Methylnaphthalene-d10	18:17	50498	18659	0.958	500.0	494.551787	98.91	494.551787		0.618
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	645	294	1.533		3.730119		3.730119	J	0.822
2,6-Dimethylnaphthalene	19:56	840	285	1.249		6.325224		6.325224	J	2.01
2,6-Dimethylnaphthalene-d1	19:47	53147	24422	0.977	500.0	510.720158	102.14	510.720158		0.717
C2 Alkylnaphthalenes				1.249		6.325224		6.325224	J	1.98
Acenaphthylene				1.244				ND		0.287
Acenaphthylene-d8	20:46	87694	38584	1.548	500.0	531.656643	106.33	531.656643		0.556
Acenaphthene-d10	21:16	53269	23213	1.000	500.0	500.000000	100.00	500.000000		0.915
Acenaphthene	21:21	201	93	0.762		1.503364		1.503364	J	0.977
2,3,5-Trimethylnaphthalene				1.127				ND		0.863
C3 Alkylnaphthalenes				1.127				ND		0.852
Fluorene d-10				0.837	1000			ND		0.749
Fluorene-C13				0.796	1000			ND		0.487
Fluorene	22:52	536	211	0.915		3.288286		3.288286	J	0.685
Phenanthrene-d10	25:43	89071	41860	0.753	500.0	556.323700	111.26	556.323700		0.417
Phenanthrene	25:47	8537	3793	1.216		39.398571		39.398571	B	0.565
Anthracene-d10	25:52	72638	30233	0.655	500.0	521.878522	104.38	521.878522		0.479
Anthracene	25:53	1480	409	1.059		7.845608		7.845608	J	0.649
1-Methylphenanthrene				0.870				ND		0.789
Fluoranthene-d10	29:21	83808	37093	0.727	500.0	542.660703	108.53	542.660703		0.396
Fluoranthene	29:24	5864	2636	1.334		26.230127		26.230127	B	0.278
Pyrene-d10	30:02	106281	47785	1.000	500.0	500.000000	100.00	500.000000		0.288
Pyrene	30:05	4495	1948	1.369		19.591659		19.591659	BJ	0.271
Terphenyl-d14				0.796	1000			ND		0.254
Benzo(a)Anthracene-d12	33:37	65122	26908	0.521	500.0	588.051701	117.61	588.051701		0.803
Benzo(a)anthracene				1.454				ND		0.479
Chrysene-d12	33:44	61810	27251	0.557	500.0	522.313573	104.46	522.313573		0.752
Chrysene	33:48	789	312	1.363		4.682777		4.682777	BJ	0.505
Benzo(b)Fluoranthene-d12	36:35	63269	27301	0.847	500.0	549.380858	109.88	549.380858		0.960
Benzo(k)Fluoranthene-d12	36:39	74476	28005	1.002	500.0	546.471273	109.29	546.471273		0.811
Benzo(b)fluoranthene	36:39	1112	446	1.508		5.829027		5.829027	J	1.15
Benzo(k)fluoranthene	36:42	932	246	1.136		5.505595		5.505595	J	1.49
Benzo(e)pyrene-d12	37:23	67975	26131	1.000	500.0	500.000000	100.00	500.000000		0.813
Benzo(e)pyrene	37:27	904	310	1.589		5.138192		5.138192	BJ	1.52
Benzo(a)Pyrene-d12	37:32	55378	19703	0.737	500.0	552.768644	110.55	552.768644		1.10
Benzo(a)pyrene	37:36	508	164	1.333		3.441691		3.441691	BJ	1.81
Perylene-d12	37:46	64233	23497	0.887	500.0	532.954049	106.59	532.954049		0.917
Perylene				1.178				ND		1.72
3-Methylcholanthrene								ND		0.000000

VMIC 4/26/06 JM 4/27/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2T1AA	**Prep Batch**	6100063	**Lot No**	H6D030241-003
Data File	/20060418s2/yh2h2t.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90216	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	4/19/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	03:36	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09YA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	32039	9388	0.405	500.0	582.481607	116.50	582.481607		0.946
Indeno(1,2,3-cd)pyrene-d12	41:07	59958	14462	0.779	500.0	566.126560	113.23	566.126560		0.368
Indeno(1,2,3-cd)pyrene	41:13	731	186	1.297		4.700775		4.700775	BJ	0.600
Dibenz(a,h)anthracene				2.059				ND		0.647
Benzo(ghi)Perylene-d12	42:06	42950	11726	0.559	500.0	564.881212	112.98	564.881212		0.513
Benzo(ghi)perylene	42:12	2135	562	1.698		14.636181		14.636181	BJ	0.565
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2T1AA	**Prep Batch**	6100063	**Lot No**	H6D030241-003
Data File	/20060418s2/yh2h2t.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90216	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	04/19/06 03:36	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

View Small Peaks? False **View deleted peaks?** False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	50		20				
	Naphthalene	16:01	16:01	0	6196		1537			ABB	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	40		16				
	Naphthalene-d8	15:58	15:57	1	86189		24746			ABB	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	33		13				
	2-Methylnaphthalene	18:03	18:03	0	1925		800			ABB	M
	1-Methylnaphthalene	18:23	18:23	0	1063		415			ABB	M
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	28		11				
	2-Methylnaphthalene-d10	17:58	17:58	0	56406		22817			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	50498		18659			AVB	
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	58		23				
	Biphenyl	19:27	19:26	1	645		294			ABB	M
	Acenaphthene	21:21	21:22	-1	201		93			MVV	
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	123		49				
	2,6-Dimethylnaphthalene	19:56	19:55	1	840		285			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	40		16				
	Acenaphthylene-d8	20:46	20:47	-1	87694		38584			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	30		12				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	43		17				
	Acenaphthene-d10	21:16	21:16	0	53269		23213			ABV	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	53		21				
	Fluorene	22:52	22:52	0	536		211			MVV	
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	33		13				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	53147		24422			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	40		16				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	48		19				
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	33		13				
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	53		21				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2T1AA	**Prep Batch**	6100063	**Lot No**	H6D030241-003
Data File	/20060418s2/yh2h2t.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90216	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	04/19/06 03:36	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

View Small Peaks? False **View deleted peaks?** False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	58		23				
	Phenanthrene	25:47	25:48	-1	8537		3793			ABV	M
	Anthracene	25:53	25:55	-2	1480		409			AVB	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	30		12				
	Phenanthrene-d10	25:43	25:44	-1	89071		41860			ABV	
	Anthracene-d10	25:52	25:52	0	72638		30233			AVB	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	58		23				
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	28		11				
	Fluoranthene	29:24	29:24	0	5864		2636			ABV	M
	Pyrene	30:05	30:05	0	4495		1948			ABB	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	28		11				
	Fluoranthene-d10	29:21	29:21	0	83808		37093			ABV	
	Pyrene-d10	30:02	30:02	0	106281		47785			AVV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	38		15				
	Chrysene	33:48	33:48	0	789		312			MVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	40		16				
	Benzo(a)Anthracene-d12	33:37	33:36	1	65122		26908			ABV	
	Chrysene-d12	33:44	33:44	0	61810		27251			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	15		6				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	95		38				
	Benzo(b)fluoranthene	36:39	36:39	0	1112		446			MBV	
	Benzo(k)fluoranthene	36:42	36:42	0	932		246			MVV	
	Benzo(e)pyrene	37:27	37:27	0	904		310			MBV	M
	Benzo(a)pyrene	37:36	37:36	0	508		164			MVB	M
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	43		17				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	63269		27301			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	74476		28005			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	67975		26131			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	55378		19703			AVV	
	Perylene-d12	37:46	37:46	0	64233		23497			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	80		32				
276					**276.0000**		**276.0000**				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2T1AA	**Prep Batch**	6100063	**Lot No**	H6D030241-003
Data File	/20060418s2/yh2h2t.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90216	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	04/19/06 03:36	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

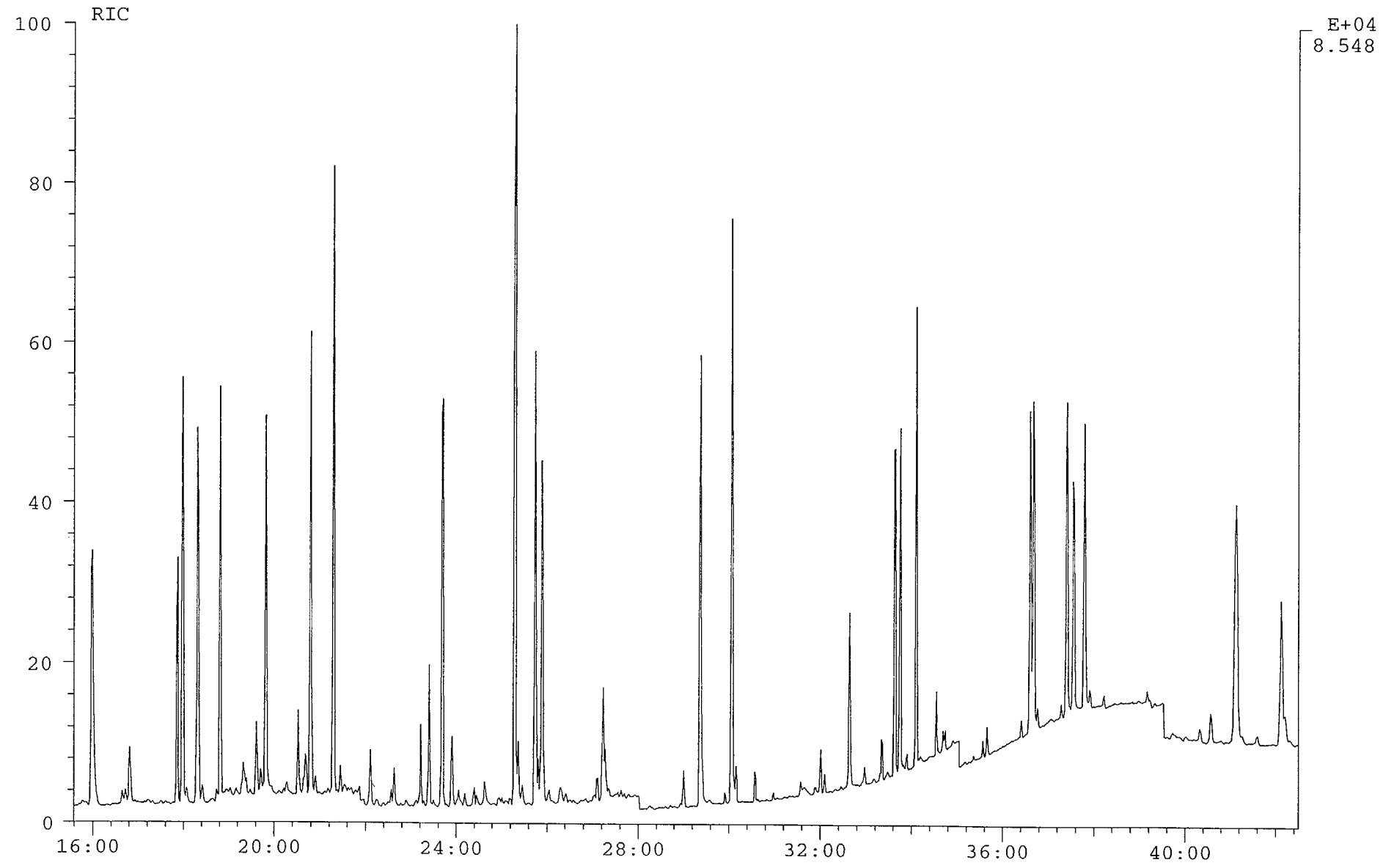
View Small Peaks? False **View deleted peaks?** False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
276					276.0000		276.0000				
	Noise	00:00	00:00	0	23		9				
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	731		186			MBB	M
	Benzo(ghi)perylene	42:12	42:13	-1	2135		562			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	25		10				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	59958		14462			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	42950		11726			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	32039		9388			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	18		7				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	15		6				

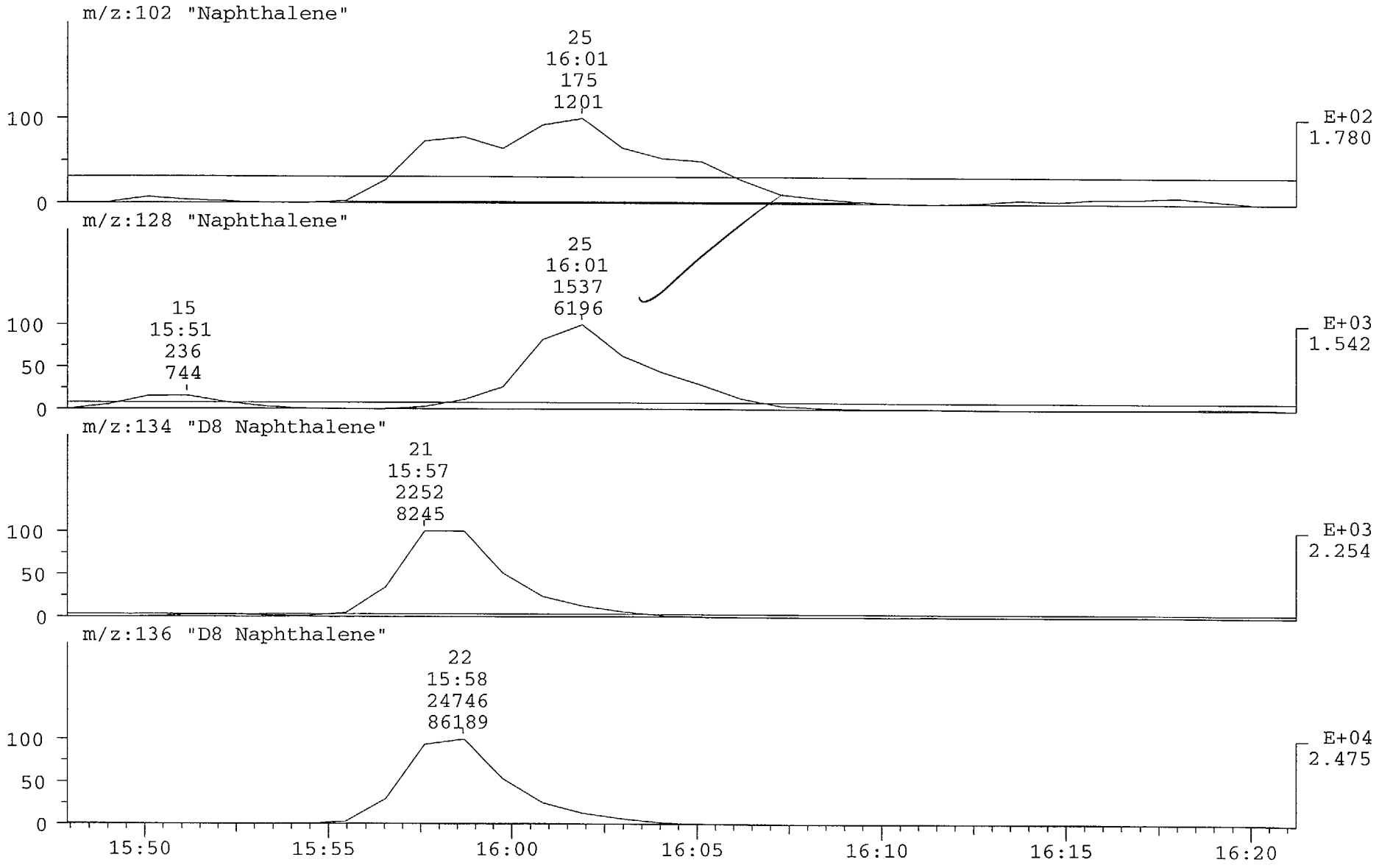
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

```
CHRO:  yh2h2t                                  19-APR-06   Elapse:  28:28.0     609
Samp:  WO=h2h2t1aa Meth=YA1 Dil=1                          Start :  03:36:00    1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                    Study :  6100063
Oper:  JMN           Client:  H6D030241-003                Inlet :
Peak:  100.00  ppm     Label wndw:   1 > 1384              Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  0, 3.0
Disp:  Height  Area
```

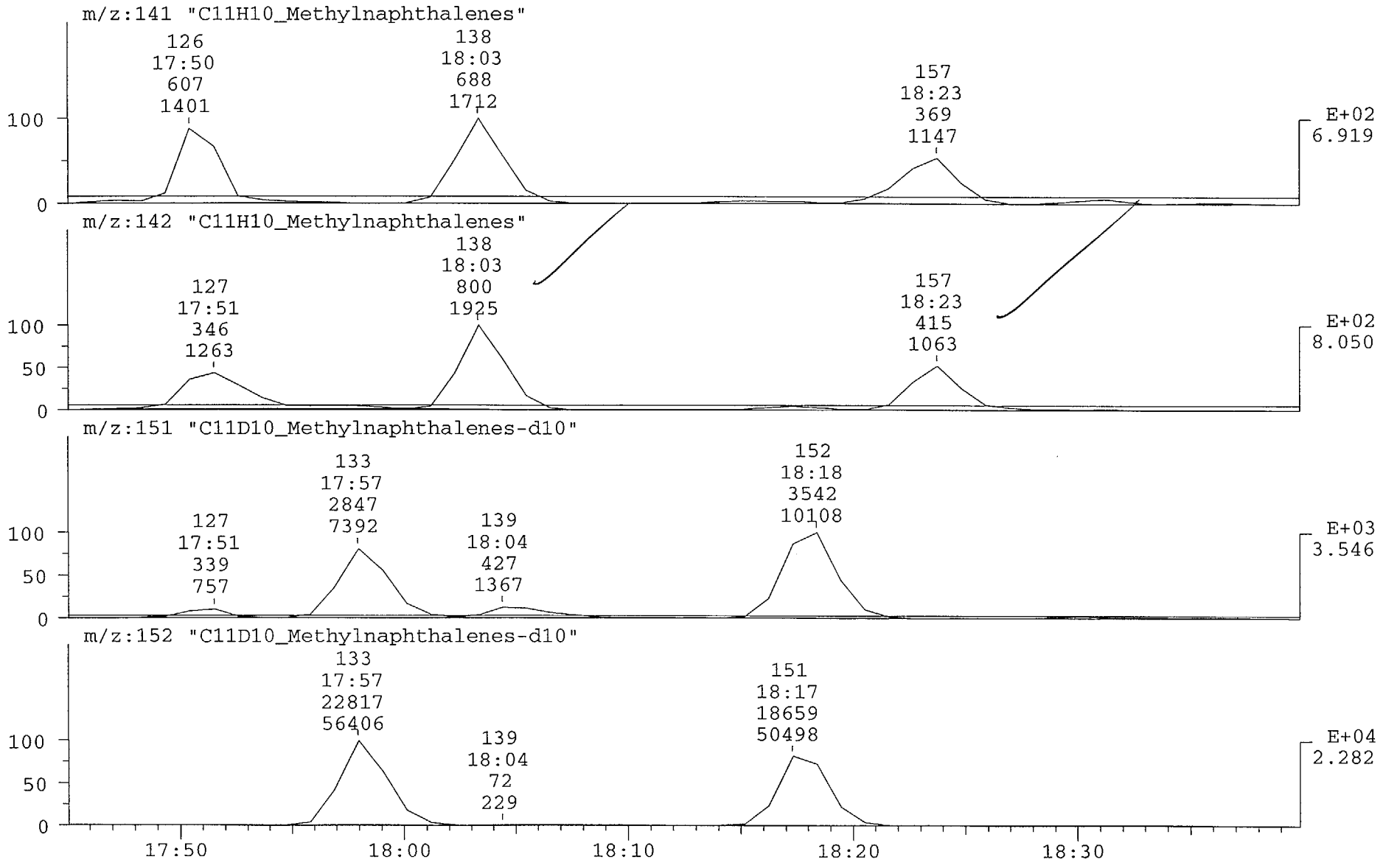
Ent/Calc: JMN 4/24/06
QC/Rev JMK 4/25/06



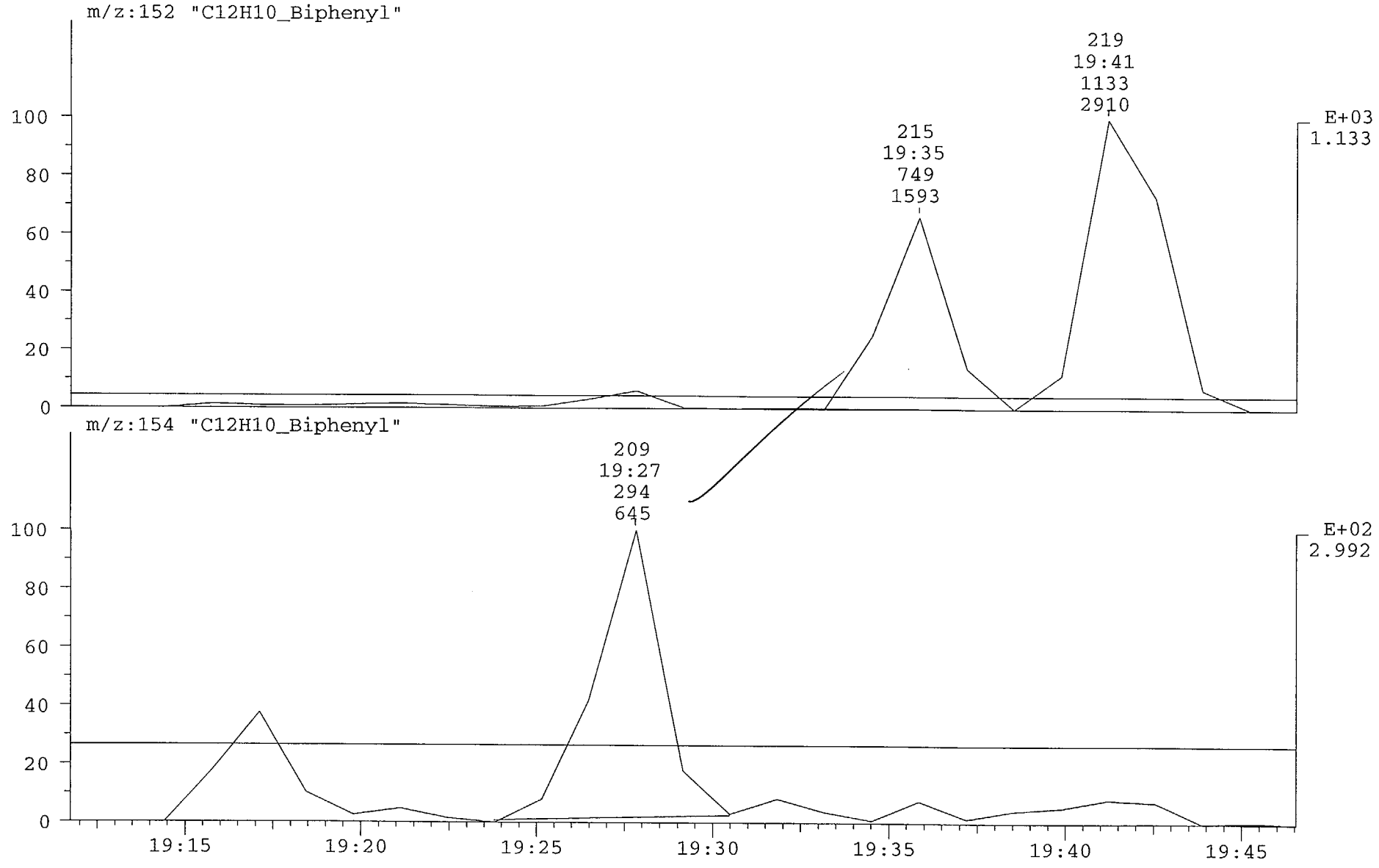
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



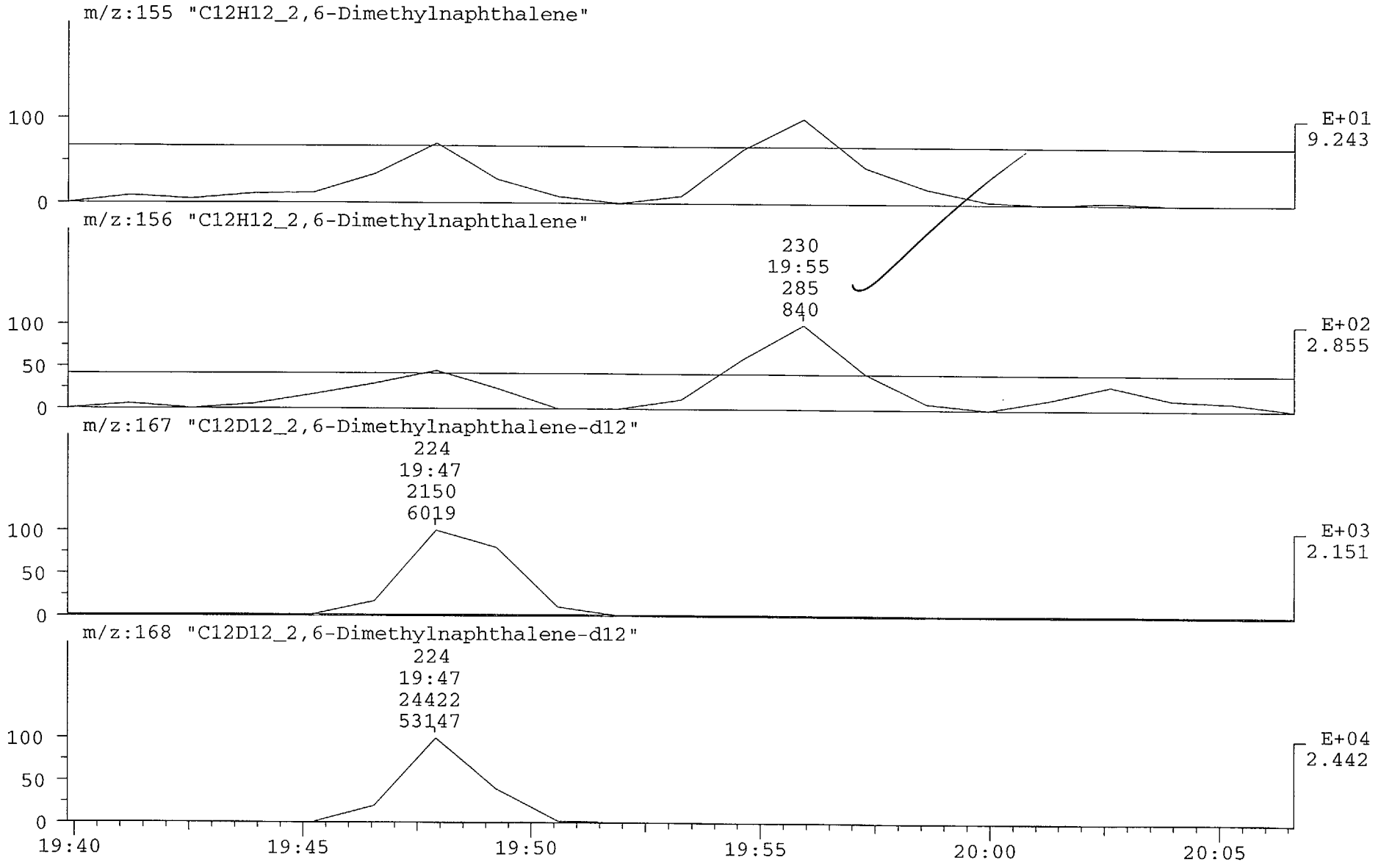
```
CHRO:  yh2h2t                                19-APR-06   Elapse:   26:58.8      537
Samp:  WO=h2h2t1aa Meth=YA1 Dil=1                        Start :   03:36:00    1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                  Study :   6100063
Oper:  JMN           Client:  H6D030241-003              Inlet :
Peak:  100.00  ppm     Label wndw:   121 > 172           Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



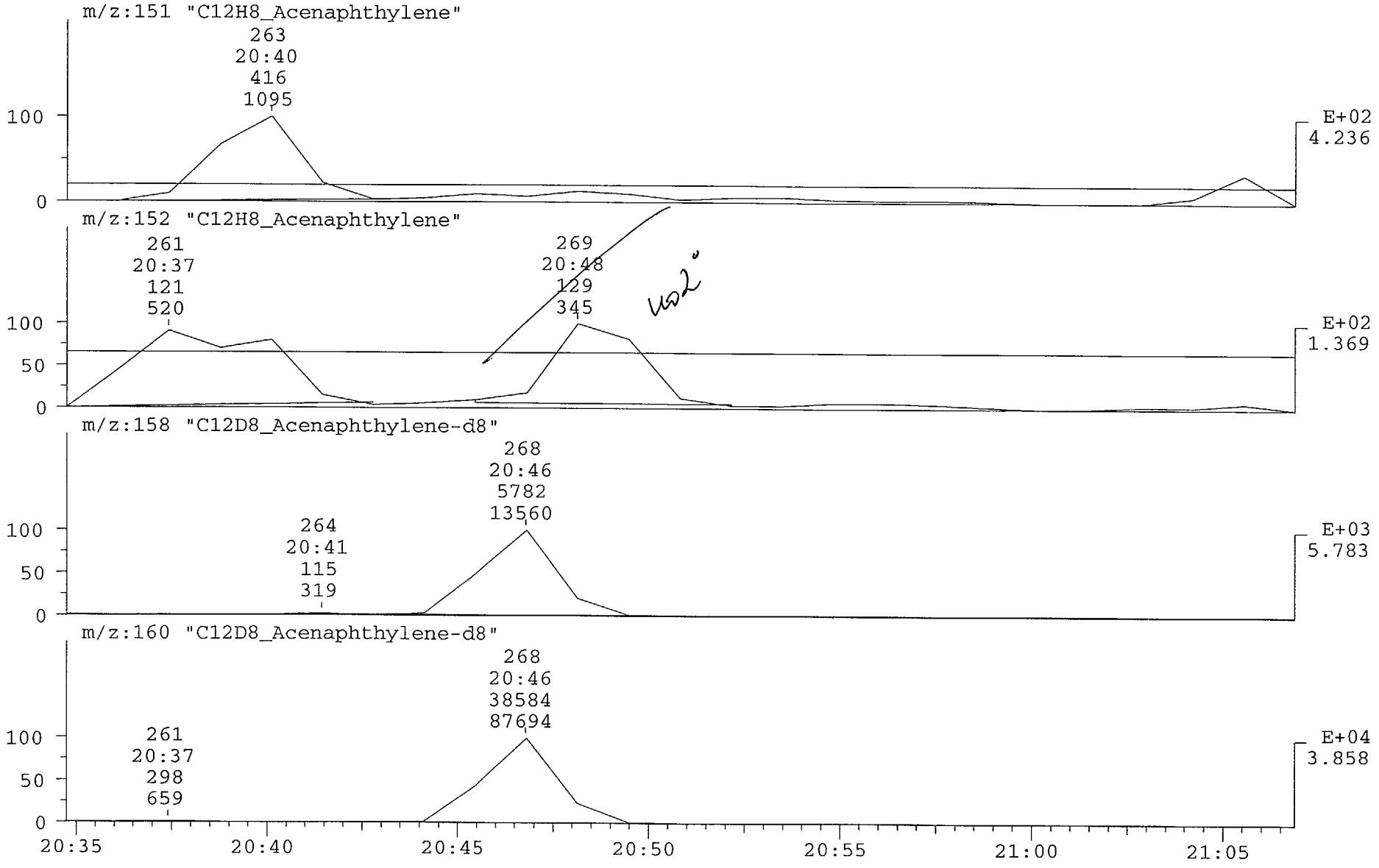
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



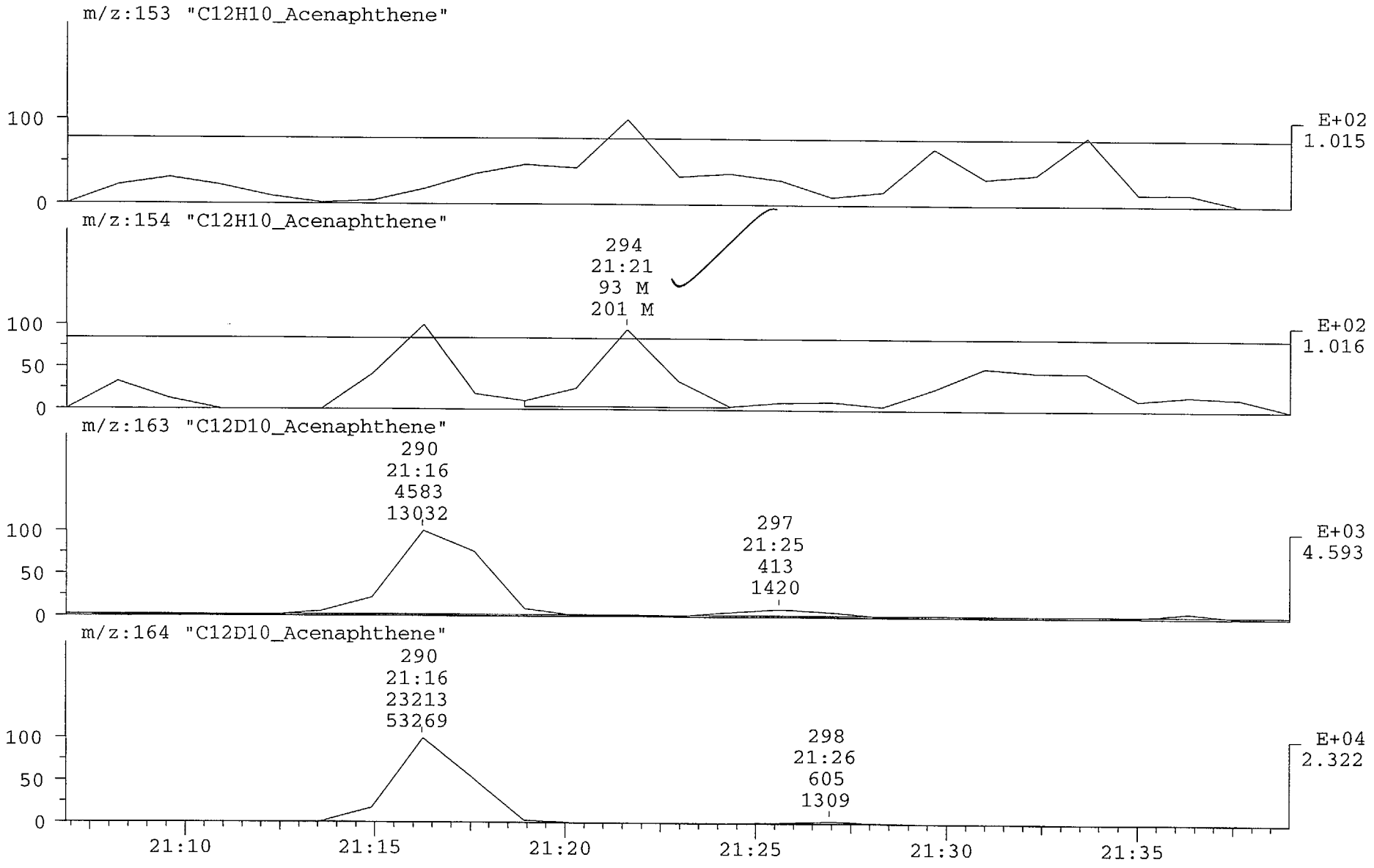
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



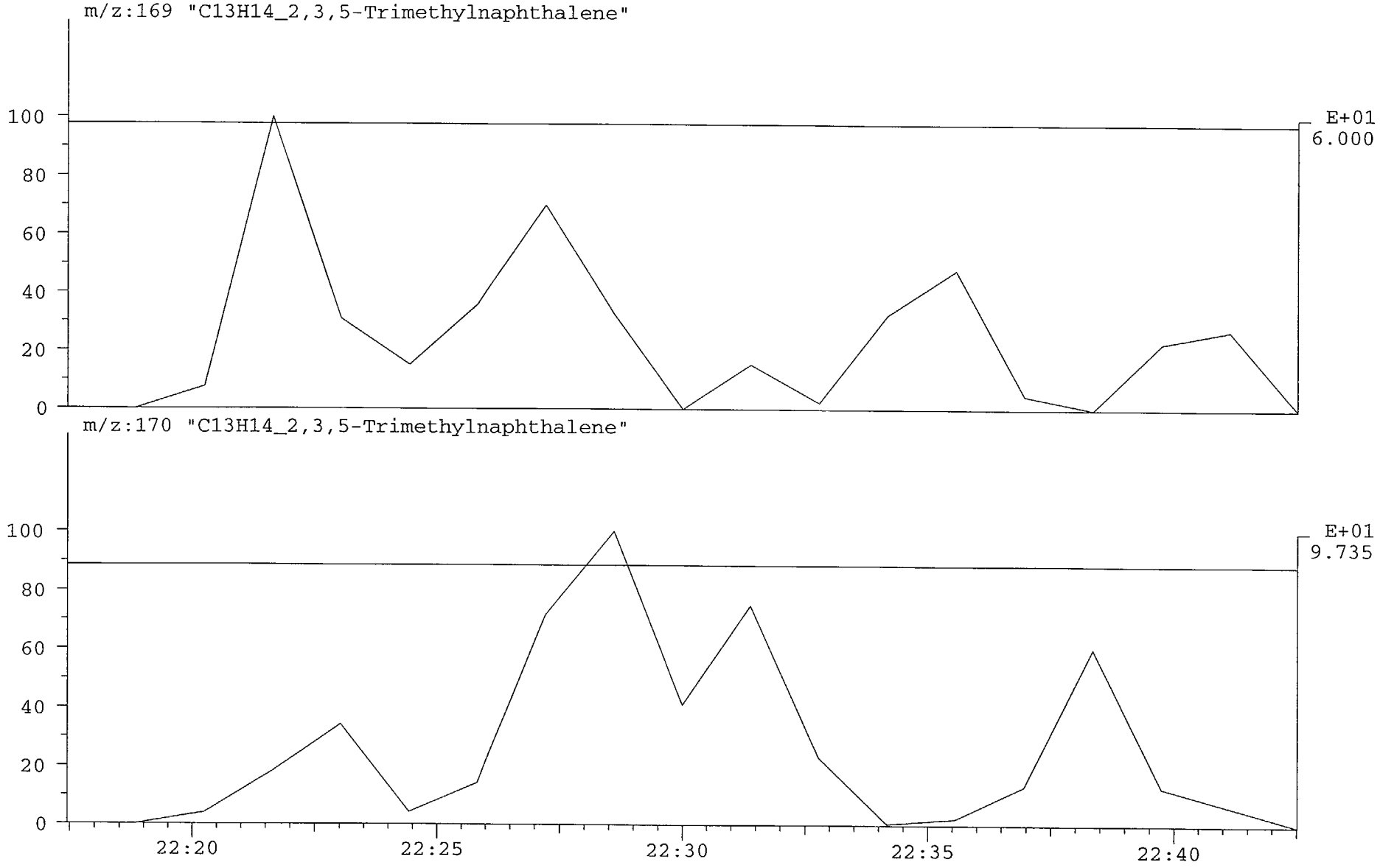
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



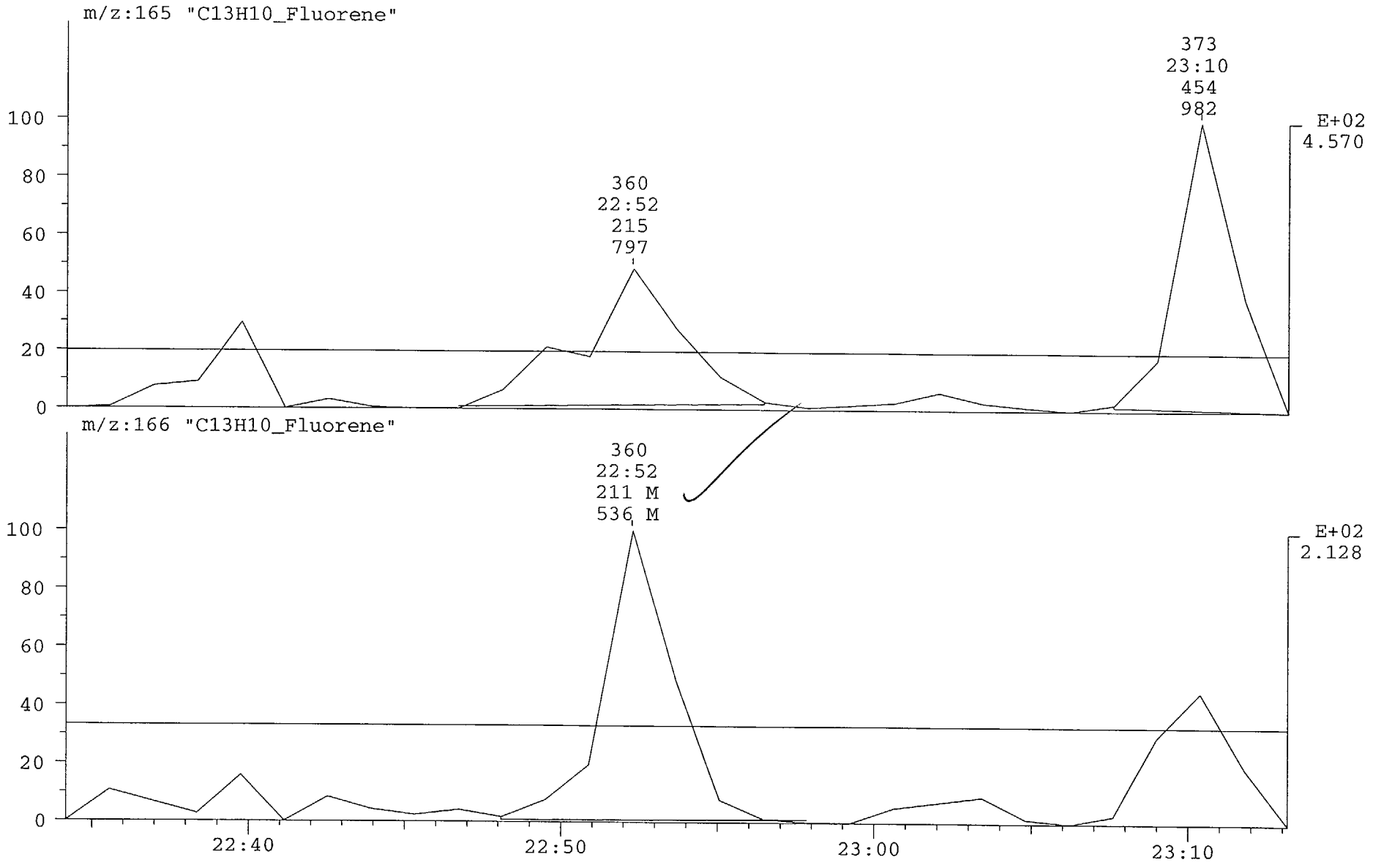
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



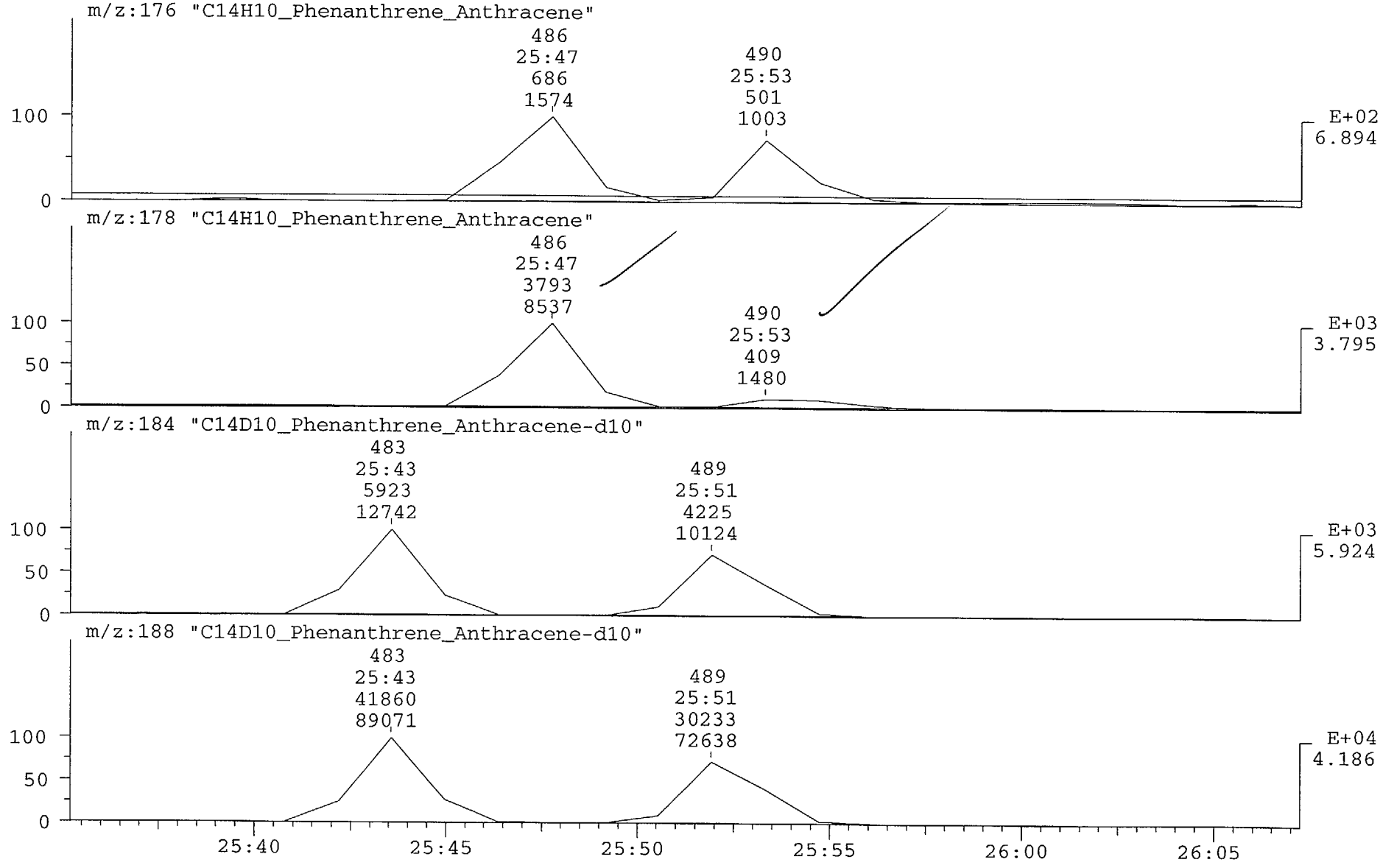
```
CHRO:  yh2h2t                                  19-APR-06   Elapse:   26:58.8      537
Samp:  WO=h2h2t1aa Meth=YA1 Dil=1                          Start :   03:36:00    1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                    Study :   6100063
Oper:  JMN           Client:  H6D030241-003                Inlet :
Peak:  100.00  ppm     Label wndw:   335 > 353             Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   -2, 3.0
Disp:  Height  Area
```



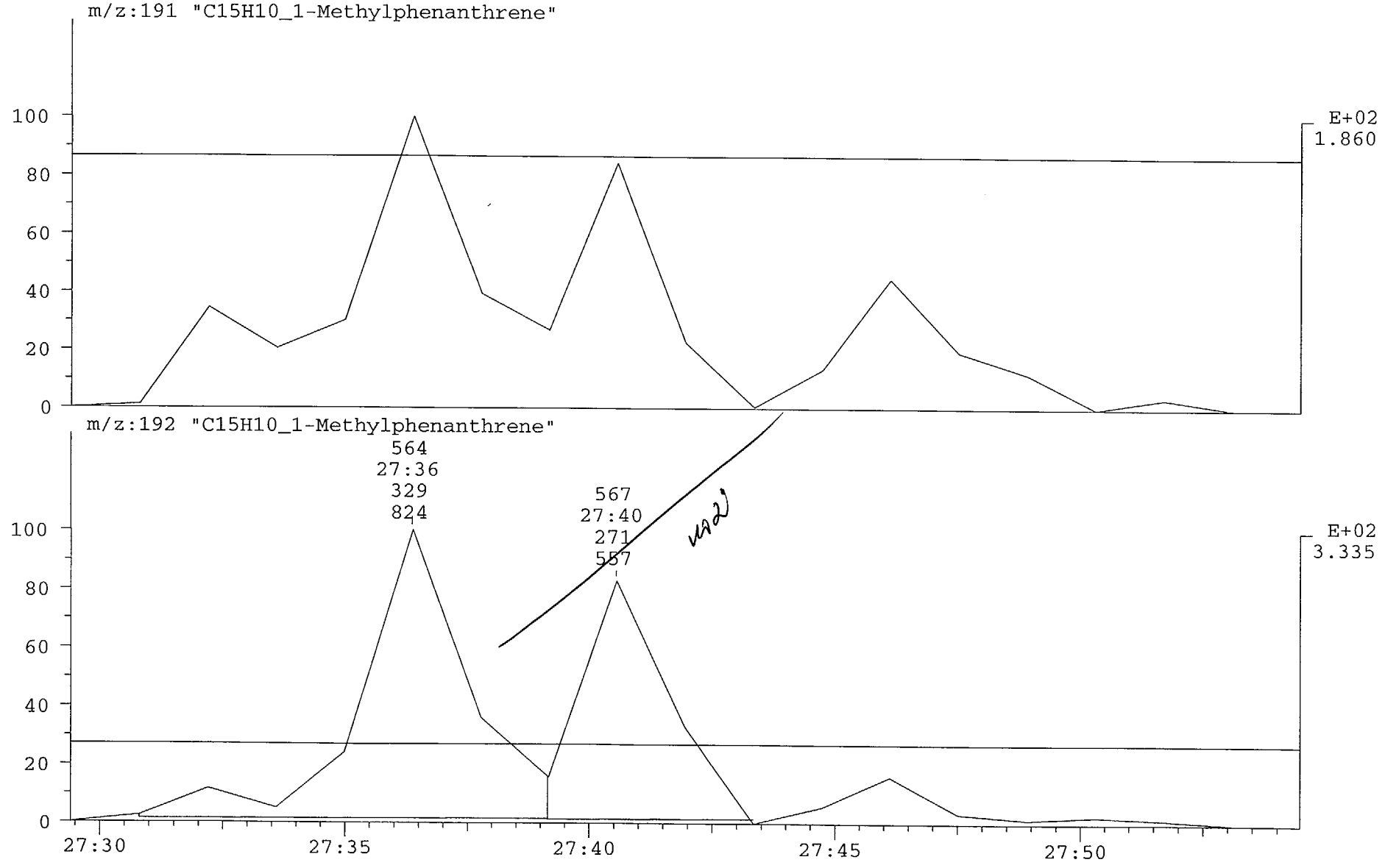
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



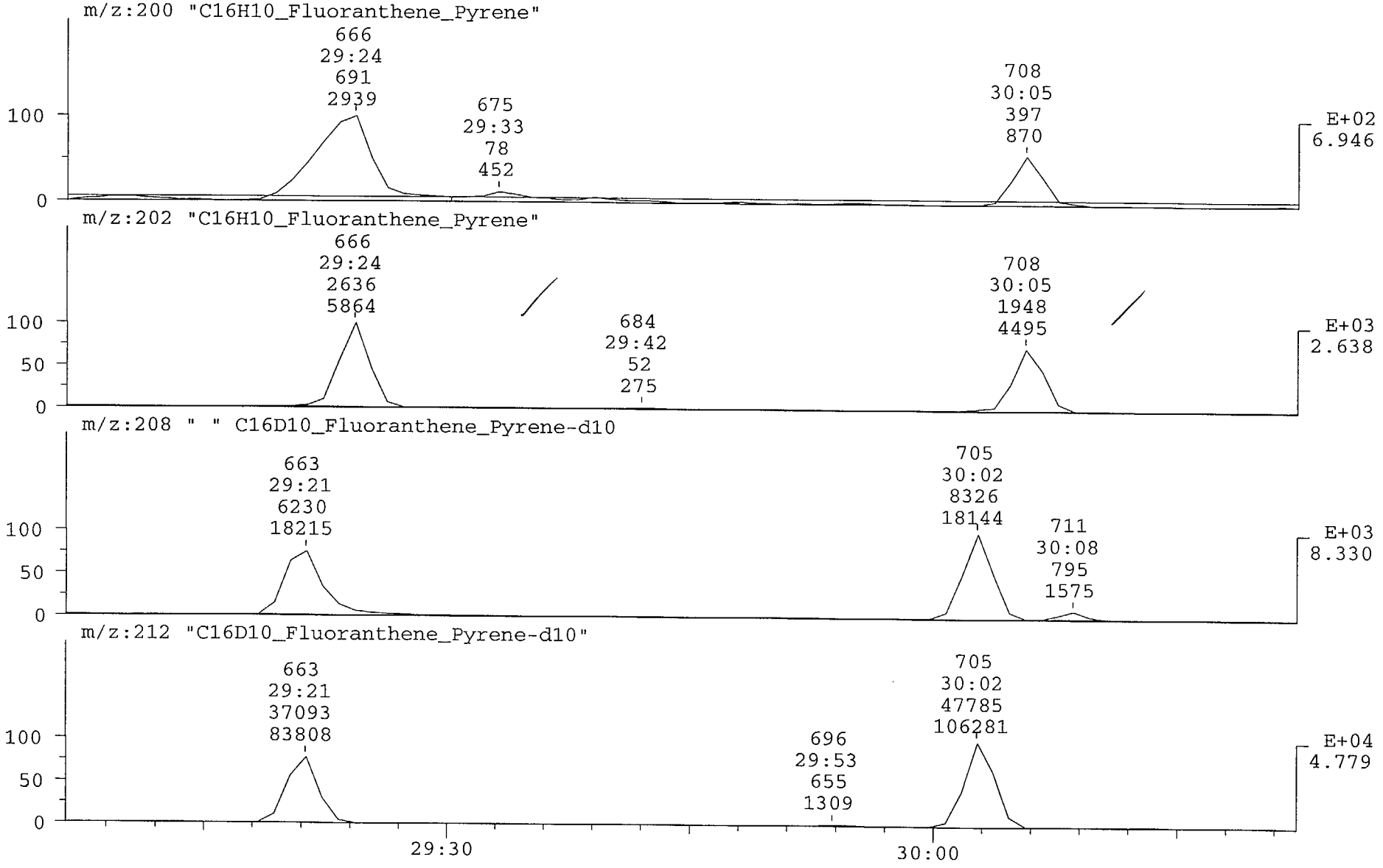
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



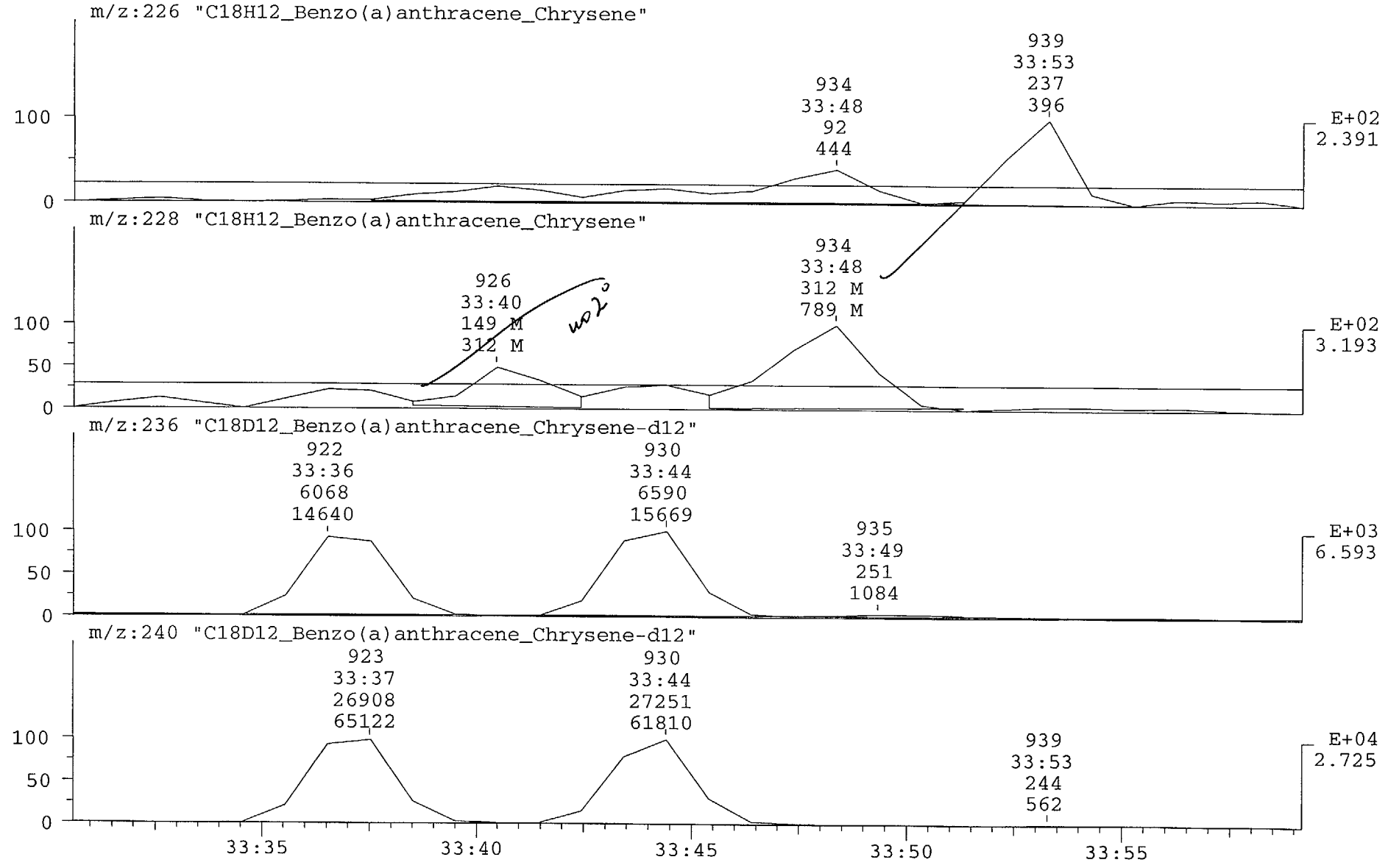
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



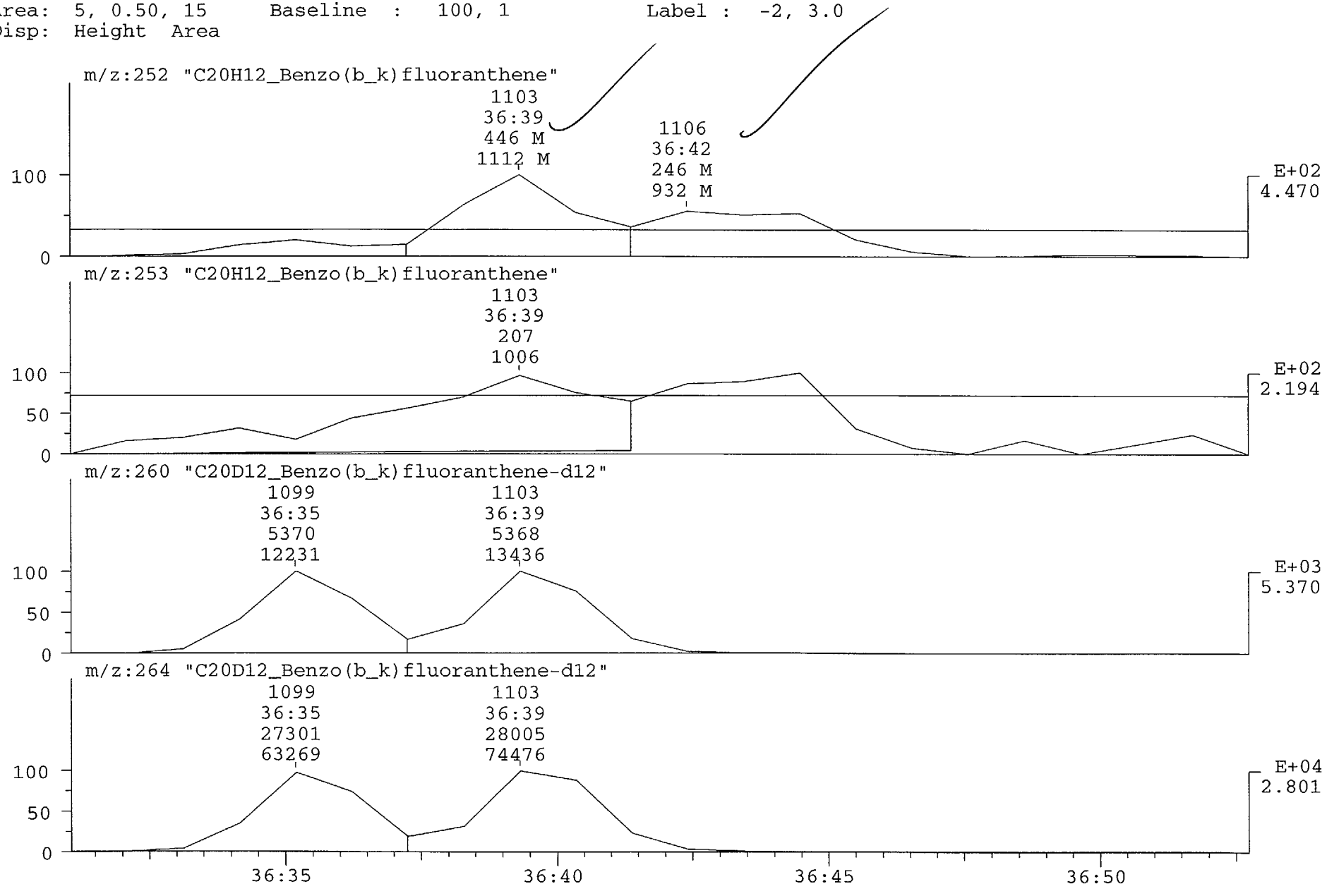
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



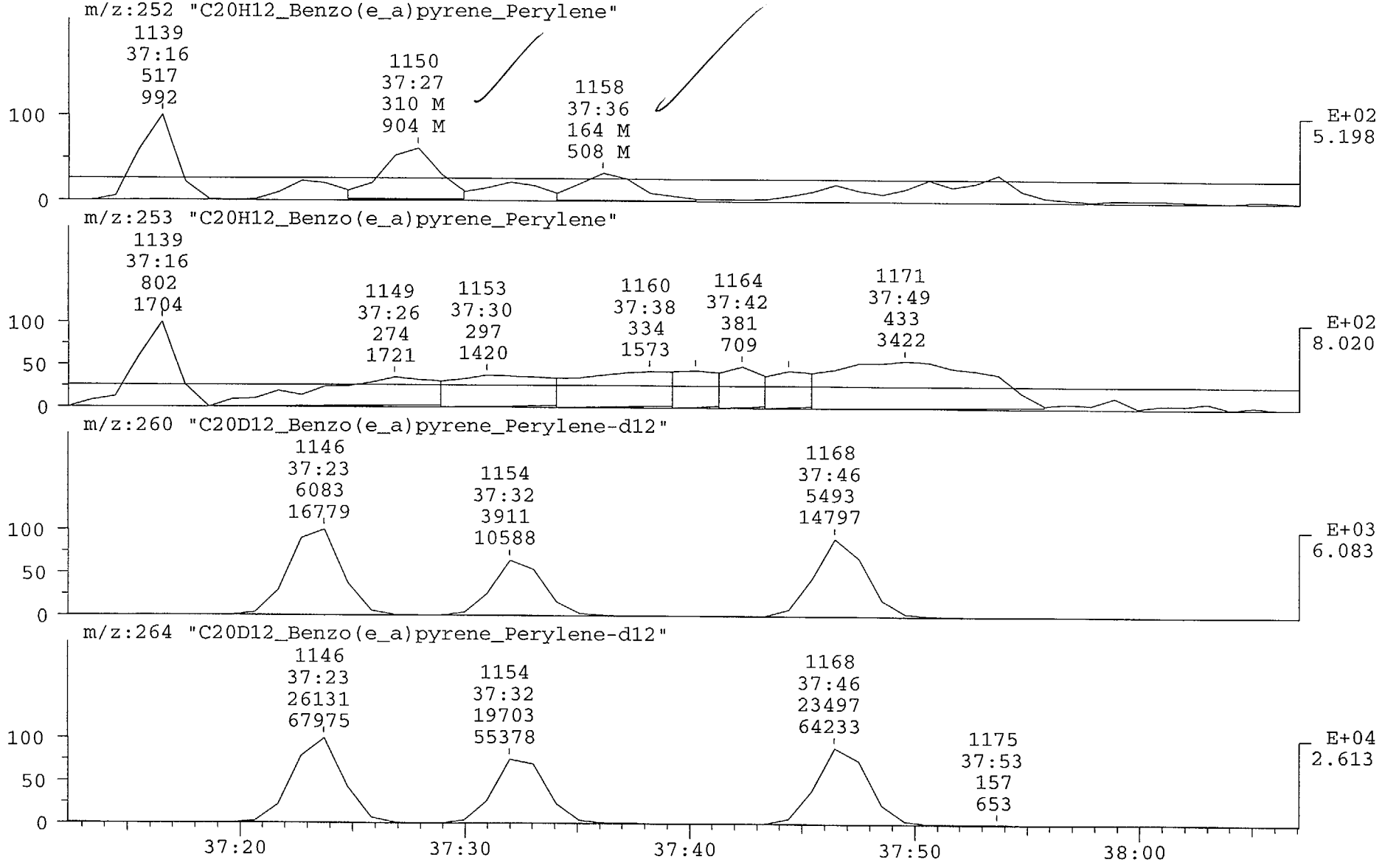
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



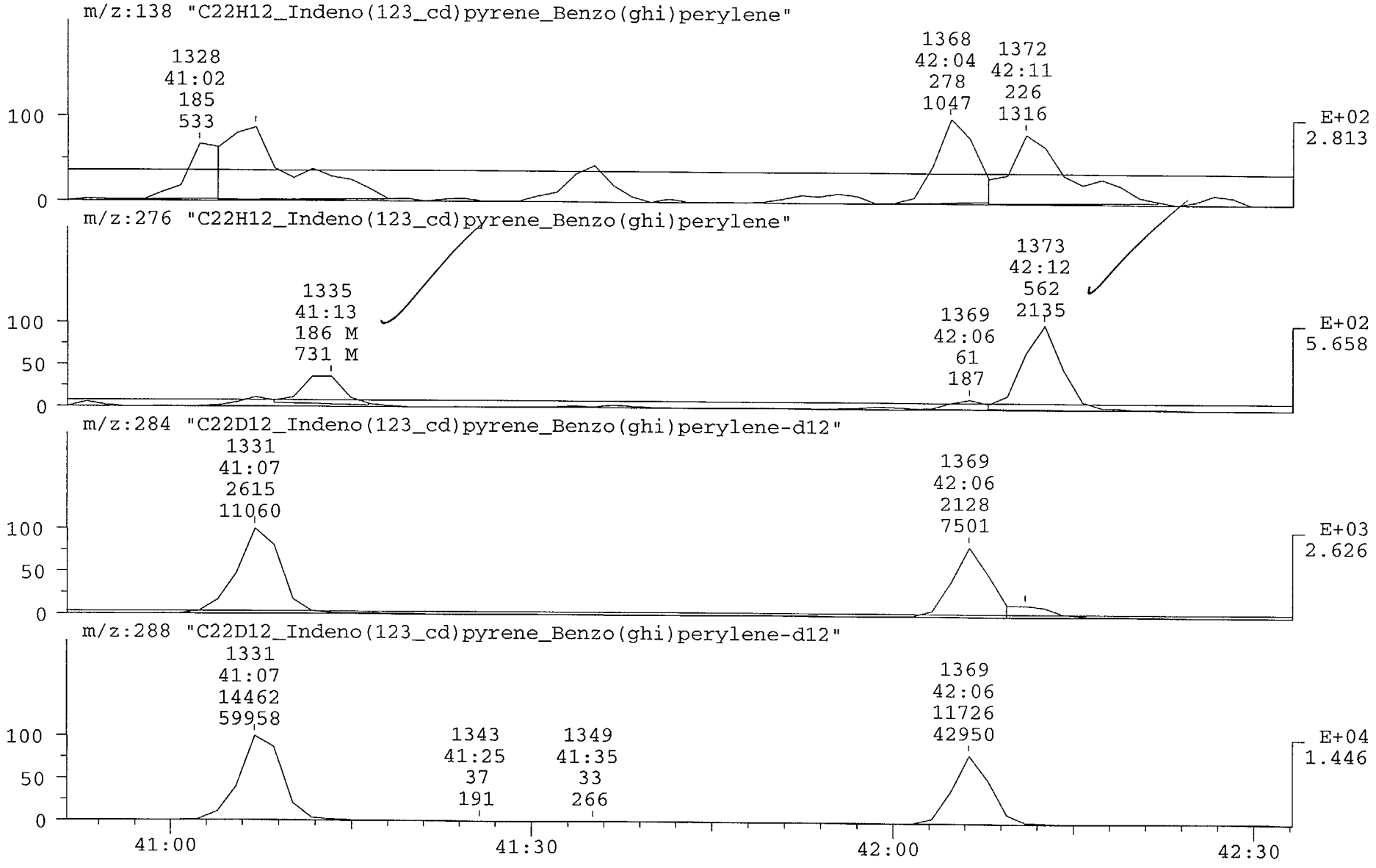
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



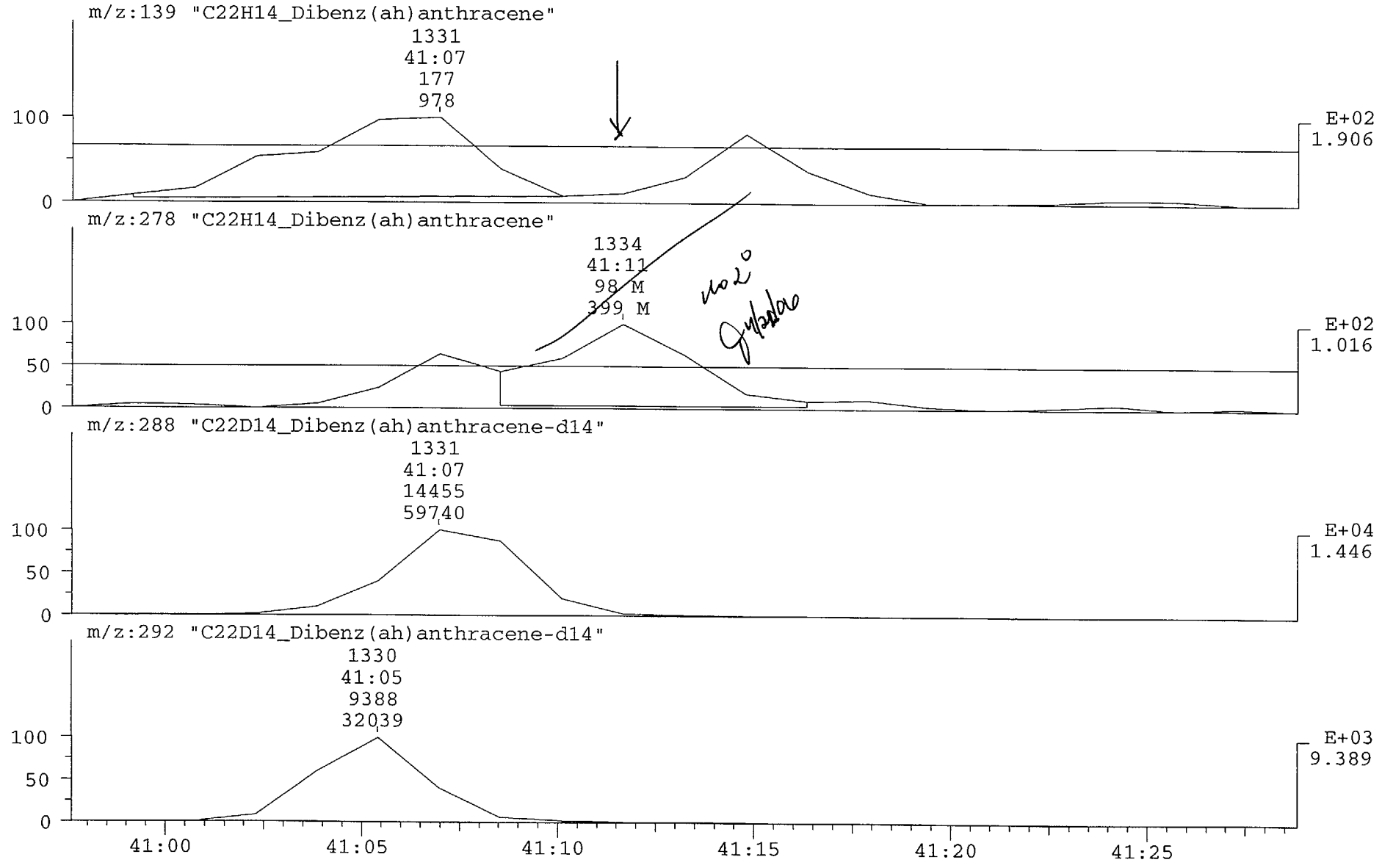
CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2t 19-APR-06 Elapse: 26:58.8 537
Samp: WO=h2h2t1aa Meth=YA1 Dil=1 Start : 03:36:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-003 Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



3537

```
File: YH2H2T.D
Date Acquired: 19 Apr 2006   3:36 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H2T1AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  11
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

[POSTRUN]
Source=MS
PrimaryFile=\data.ms
PrimaryType=hgfile
timestamp=MS ChemStation
Matrix=1
InitialAmt=1
FinalAmt=1

Beginning Export Process Wed Apr 19 14:09:47 2006
d:\cdffiles\YH2H2T.CDF Translated at Wed Apr 19 14:09:47 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:36:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h2t.dat
NetCDF File (input): /usr/users/hp/data/yh2h2t.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:36:02 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	**Work Order #....:**	H2H2V1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.1**	**B J**	**20**	**0.98**	**ng/sampl**
Acenaphthylene	ND		20	0.28	ng/sampl
Anthracene	ND		20	0.44	ng/sampl
Benzo(a)anthracene	ND		20	0.36	ng/sampl
Benzo(b)fluoranthene	ND		20	0.83	ng/sampl
Benzo(k)fluoranthene	ND		20	1.1	ng/sampl
Benzo(ghi)perylene	ND		20	0.75	ng/sampl
Benzo(a)pyrene	ND		20	1.4	ng/sampl
Benzo(e)pyrene	ND		20	1.1	ng/sampl
Chrysene	ND		20	0.39	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.41	ng/sampl
Fluoranthene	**4.4**	**B J**	**20**	**0.24**	**ng/sampl**
Fluorene	**3.3**	**B J**	**20**	**0.51**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	ND		20	0.76	ng/sampl
2-Methylnaphthalene	**12**	**B J**	**20**	**0.44**	**ng/sampl**
Naphthalene	**23**	**B J**	**20**	**0.51**	**ng/sampl**
Perylene	ND		20	1.4	ng/sampl
Phenanthrene	**25**	**B J**	**20**	**0.38**	**ng/sampl**
Pyrene	**6.4**	**B J**	**20**	**0.23**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	92	15 - 120
2-Methylnaphthalene-d10	97	20 - 120
Acenaphthylene-d8	100	20 - 120
Phenanthrene-d10	107	30 - 120
Fluoranthene-d10	108	30 - 120
Benzo(a)anthracene-d12	109	30 - 120
Chrysene-d12	98	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	104	30 - 120
Benzo(a)pyrene-d12	99	30 - 120
Perylene-d12	92	30 - 120
Indeno(1,2,3-cd)pyrene-d12	105	30 - 120
Dibenz(ah)anthracene-d14	106	30 - 120
Benzo(ghi)perylene-d12	106	30 - 120

STL Knoxville - ACS

Sample ID: G-3030/3031-R2-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 004	**Work Order #....:**	H2H2V1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2V1AA	Prep Batch	6100051	Lot No	H6D030241-004
Data File	/20060418s2/yh2h2v.d	Prep Date	04/10/06	SDG No	
Analysis ID	90194	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	4/19/2006	Matrix	AIR	Date Sampled	03/29/06
Analysis Time	02:46	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	116507	34464	1.748	500.0	459.050745	91.81	459.050745		0.377
Naphthalene	16:01	6533	1597	1.211		23.155807		23.155807	B J	0.509
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:03	2302	927	1.269		11.620492		11.620492	BJ	0.437
2-Methylnaphthalene-d10	17:58	78078	31603	1.104	500.0	487.163082	97.43	487.163082		0.523
1-Methylnaphthalene	18:23	1039	425	1.365		5.540691		5.540691	BJ	0.511
1-Methylnaphthalene-d10	18:17	68703	25093	0.958	500.0	493.740873	98.75	493.740873		0.602
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	838	317	1.533		3.501093		3.501093	J	0.774
2,6-Dimethylnaphthalene	19:56	888	339	1.249		5.015542		5.015542	J B	1.22
2,6-Dimethylnaphthalene-d1	19:47	70855	32021	0.977	500.0	499.643831	99.93	499.643831		0.507
C2 Alkylnaphthalenes				1.249		5.015542		5.015542	J	1.13
Acenaphthylene				1.244				ND		0.279
Acenaphthylene-d8	20:46	112571	50375	1.548	500.0	500.810783	100.16	500.810783		0.213
Acenaphthene-d10	21:16	72592	30314	1.000	500.0	500.000000	100.00	500.000000		0.495
Acenaphthene	21:21	192	93	0.762		1.118698		1.118698	BJ	0.977
2,3,5-Trimethylnaphthalene	22:28	431	157	1.127		2.698529		2.698529	J	0.346
C3 Alkylnaphthalenes				1.127		2.698529		2.698529	J	0.322
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene	22:52	710	287	0.915		3.342274		3.342274	BJ	0.508
Phenanthrene-d10	25:43	116080	53738	0.753	500.0	536.229274	107.25	536.229274		0.182
Phenanthrene	25:47	6926	2942	1.216		24.526558		24.526558	B	0.382
Anthracene-d10								ND		0.000000
Anthracene				1.059				ND		0.439
1-Methylphenanthrene				0.870				ND		0.347
Fluoranthene-d10	29:21	113167	50745	0.727	500.0	541.956695	108.39	541.956695		0.350
Fluoranthene	29:24	1322	597	1.334		4.379289		4.379289	BJ	0.240
Pyrene-d10	30:02	143699	63852	1.000	500.0	500.000000	100.00	500.000000		0.254
Pyrene	30:05	1976	784	1.369		6.378141		6.378141	BJ	0.234
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:37	81847	33087	0.521	500.0	546.628703	109.33	546.628703		0.413
Benzo(a)anthracene				1.454				ND		0.364
Chrysene-d12	33:44	78501	33137	0.557	500.0	490.624965	98.12	490.624965		0.387
Chrysene				1.363				ND		0.387
Benzo(b)Fluoranthene-d12	36:35	78519	34084	0.847	500.0	543.029418	108.61	543.029418		0.480
Benzo(k)Fluoranthene-d12	36:39	89096	35404	1.002	500.0	520.685214	104.14	520.685214		0.406
Benzo(b)fluoranthene				1.508				ND		0.827
Benzo(k)fluoranthene				1.136				ND		1.06
Benzo(e)pyrene-d12	37:23	85346	30742	1.000	500.0	500.000000	100.00	500.000000		0.407
Benzo(e)pyrene				1.589				ND		1.15
Benzo(a)Pyrene-d12	37:32	62259	23328	0.737	500.0	494.964804	98.99	494.964804		0.552
Benzo(a)pyrene				1.333				ND		1.37
Perylene-d12	37:46	69745	26285	0.887	500.0	460.904219	92.18	460.904219		0.459
Perylene				1.178				ND		1.37
3-Methylcholanthrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2V1AA	Prep Batch	6100051	Lot No	H6D030241-004
Data File	/20060418s2/yh2h2v.d	Prep Date	04/10/06	SDG No	
Analysis ID	90194	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	4/19/2006	Matrix	AIR	Date Sampled	03/29/06
Analysis Time	02:46	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample	DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	36604	10482	0.405	500.0	530.026831	106.01	530.026831	0.804
Indeno(1,2,3-cd)pyrene-d12	41:07	70141	17846	0.779	500.0	527.478049	105.50	527.478049	0.313
Indeno(1,2,3-cd)pyrene				1.297				ND	0.756
Dibenz(a,h)anthracene				2.059				ND	0.405
Benzo(ghi)Perylene-d12	42:06	50800	13777	0.559	500.0	532.137321	106.43	532.137321	0.436
Benzo(ghi)perylene				1.698				ND	0.748
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene								ND	0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2V1AA	Prep Batch	6100051	Lot No	H6D030241-004
Data File	/20060418s2/yh2h2v.d	Prep Date	04/10/06	SDG No	
Analysis ID	90194	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	04/19/06 02:46	Matrix	AIR	Date Sampled	03/29/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	43		17				
	Naphthalene	16:01	16:01	0	6533		1597			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	40		16				
	Naphthalene-d8	15:58	15:57	1	116507		34464			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	35		14				
	2-Methylnaphthalene	18:03	18:03	0	2302		927			ABB	M
	1-Methylnaphthalene	18:23	18:23	0	1039		425			ABB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	35		14				
	2-Methylnaphthalene-d10	17:58	17:58	0	78078		31603			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	68703		25093			AVB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	75		30				
	Biphenyl	19:27	19:26	1	838		317			ABB	
	Acenaphthene	21:21	21:22	-1	192		93			MVV	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	98		39				
	2,6-Dimethylnaphthalene	19:56	19:55	1	888		339			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	20		8				
	Acenaphthylene-d8	20:46	20:47	-1	112571		50375			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	33		13				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	30		12				
	Acenaphthene-d10	21:16	21:16	0	72592		30314			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	50		20				
	Fluorene	22:52	22:52	0	710		287			MBB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	30		12				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	70855		32021			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	53		21				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	25		10				
	2,3,5-Trimethylnaphthal	22:28	22:29	-1	431		157			MBB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	20		8				
176					176.0000		176.0000				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2V1AA	Prep Batch	6100051	Lot No	H6D030241-004
Data File	/20060418s2/yh2h2v.d	Prep Date	04/10/06	SDG No	
Analysis ID	90194	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	04/19/06 02:46	Matrix	AIR	Date Sampled	03/29/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					176.0000		176.0000				
	Noise	00:00	00:00	0	18		7				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	50		20				
	Phenanthrene	25:47	25:48	-1	6926 ✓		2942			ABB	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene-d10	25:43	25:44	-1	116080 ✓		53738			ABV	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	33		13				
202					202.0000		202.0000				
	Noise	00:00	00:00	0	33		13				
	Fluoranthene	29:24	29:24	0	1322 ✓		597			MBB	M
	Pyrene	30:05	30:05	0	1976 ✓		784			MBV	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	33		13				
	Fluoranthene-d10	29:21	29:21	0	113167 ✓		50745			ABV	
	Pyrene-d10	30:02	30:02	0	143699 ✓		63852			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	35		14				
240					240.0000		240.0000				
	Noise	00:00	00:00	0	28		11				
	Benzo(a)Anthracene-d12	33:37	33:36	1	81847 ✓		33087			ABV	
	Chrysene-d12	33:44	33:44	0	78501 ✓		33137			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	85		34				
264					264.0000		264.0000				
	Noise	00:00	00:00	0	25		10				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	78519 ✓		34084			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	89096 ✓		35404			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	85346 ✓		30742			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	62259 ✓		23328			AVV	
	Perylene-d12	37:46	37:46	0	69745 ✓		26285			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	73		29				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	35		14				
278					278.0000		278.0000				
	Noise	00:00	00:00	0	18		7				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	15		6				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2V1AA	Prep Batch	6100051	Lot No	H6D030241-004
Data File	/20060418s2/yh2h2v.d	Prep Date	04/10/06	SDG No	
Analysis ID	90194	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	04/19/06 02:46	Matrix	AIR	Date Sampled	03/29/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

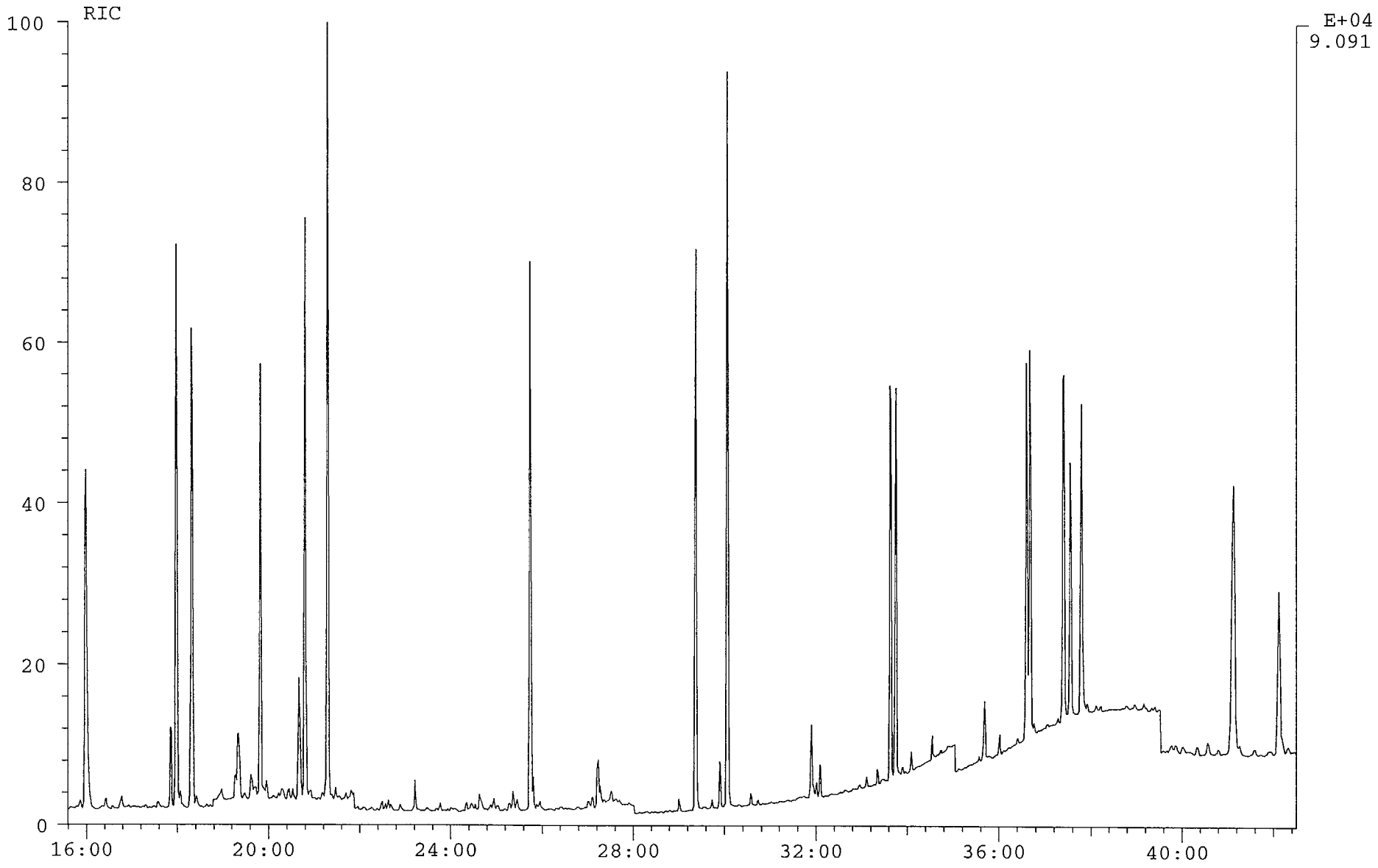
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
288					288.0000		288.0000				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	70141 ✓		17846			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	50800 ✓		13777			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	36604 ✓		10482			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	13		5				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	13		5				

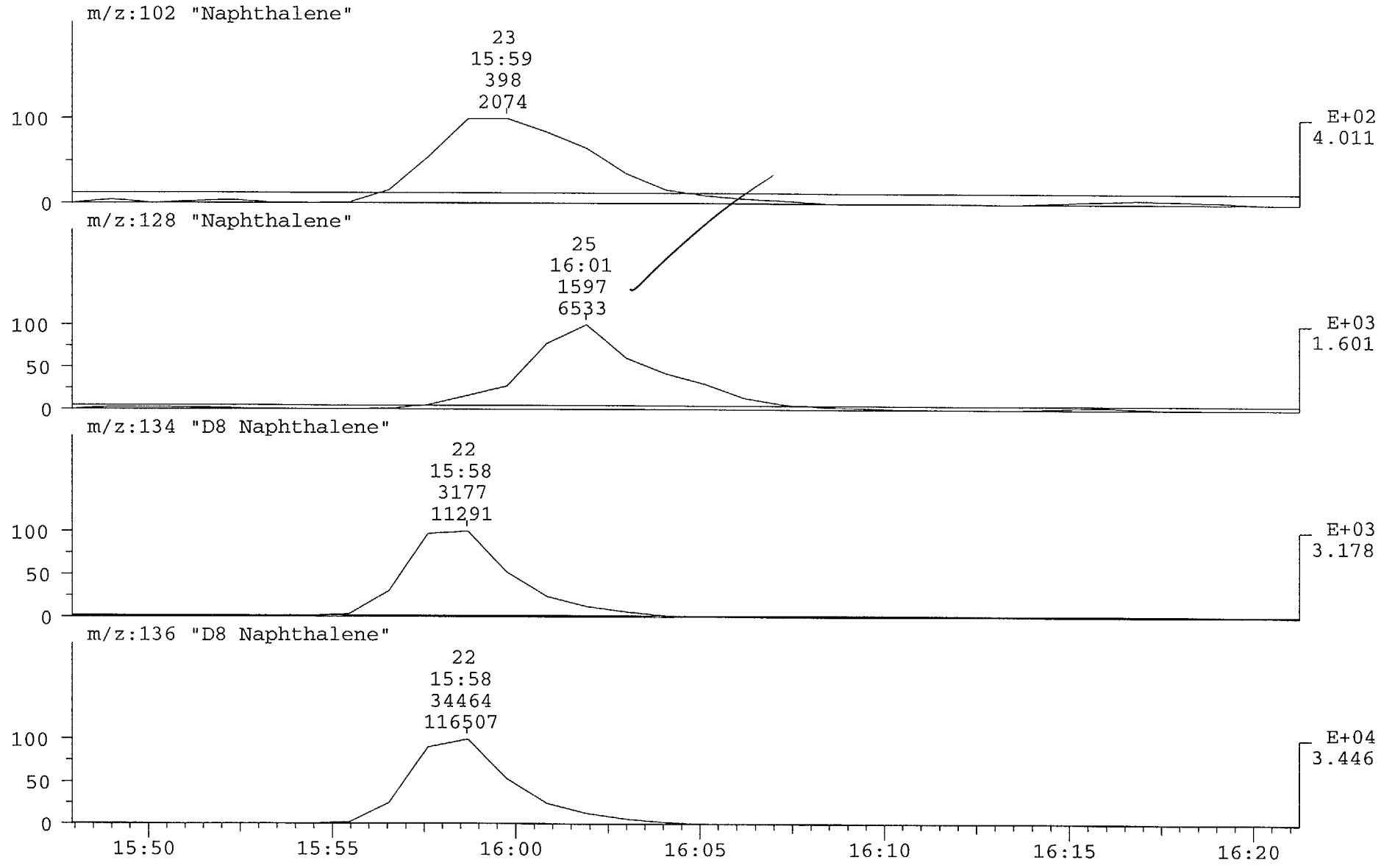
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

```
CHRO:  yh2h2v                                  19-APR-06   Elapse:  42:06      1369
Samp:  WO=h2h2v1aa Meth=YA1 Dil=1                          Start :  02:46:00   1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                    Study :  6100051
Oper:  JMN           Client:  H6D030241-004                Inlet :
Peak:  100.00  ppm     Label wndw:   1365 > 1373           Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :  0, 3.0
Disp:  Height  Area
```

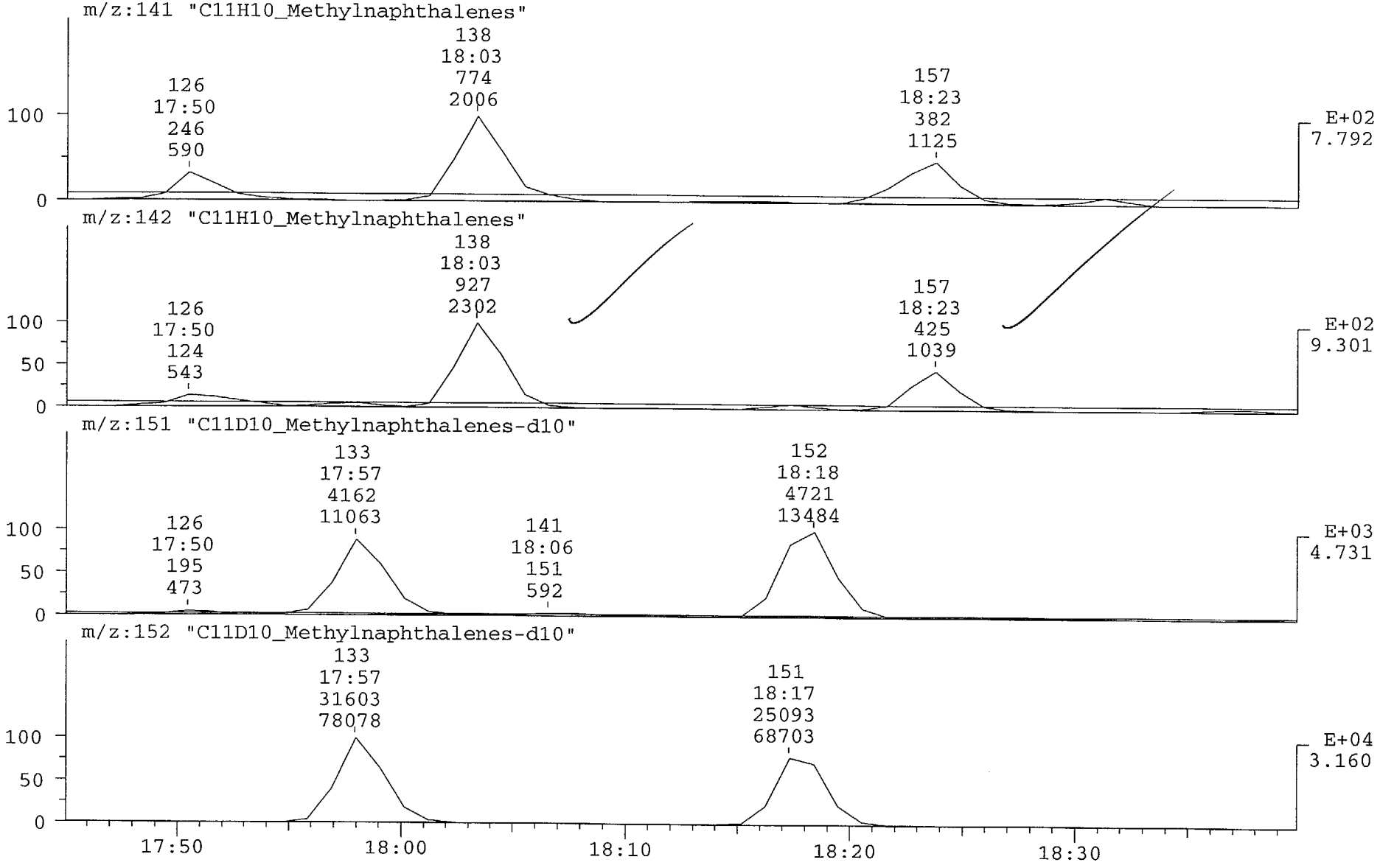
Int/Calc: J 4/20/06
QC/Rev VMIC 4/24/06



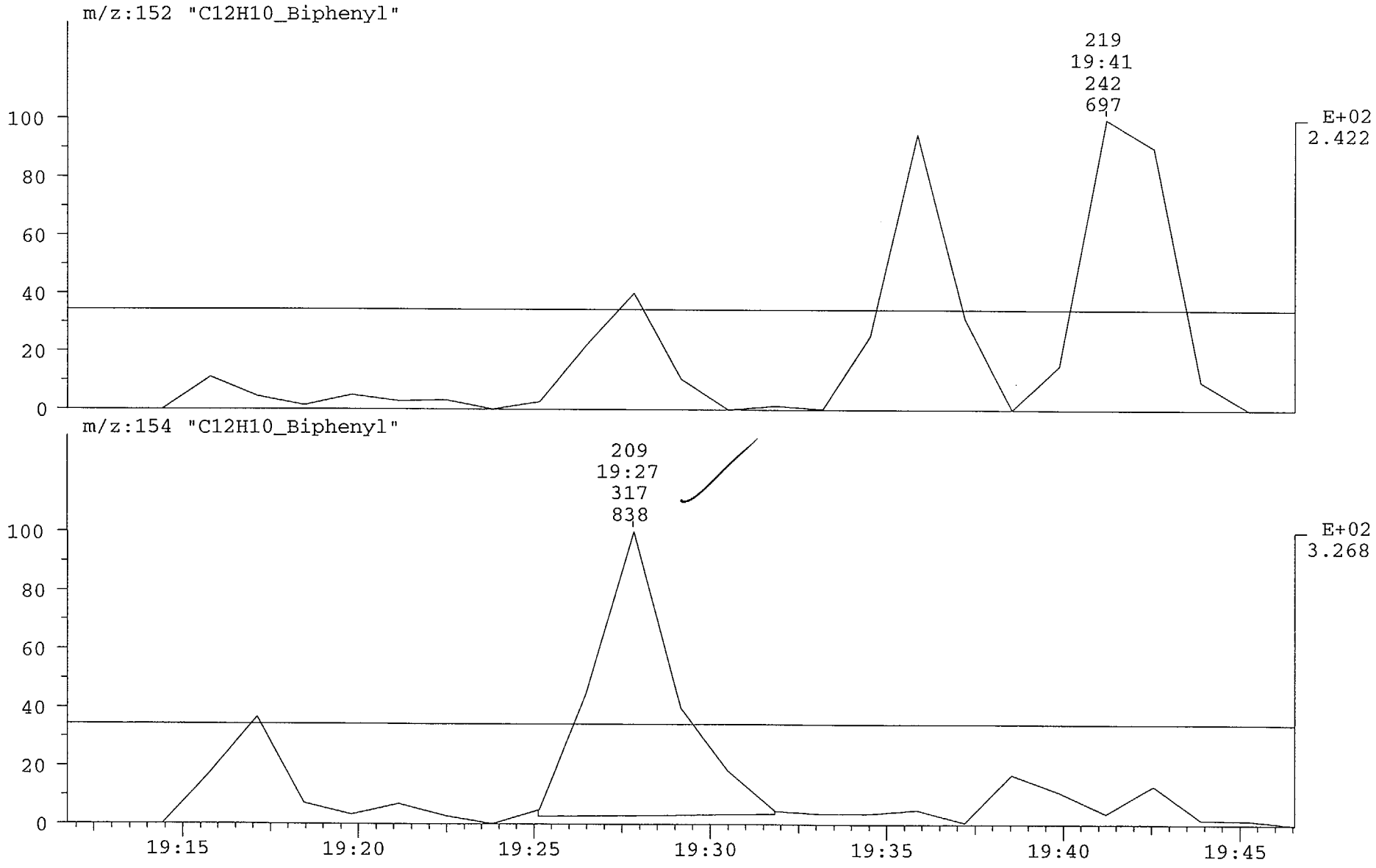
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



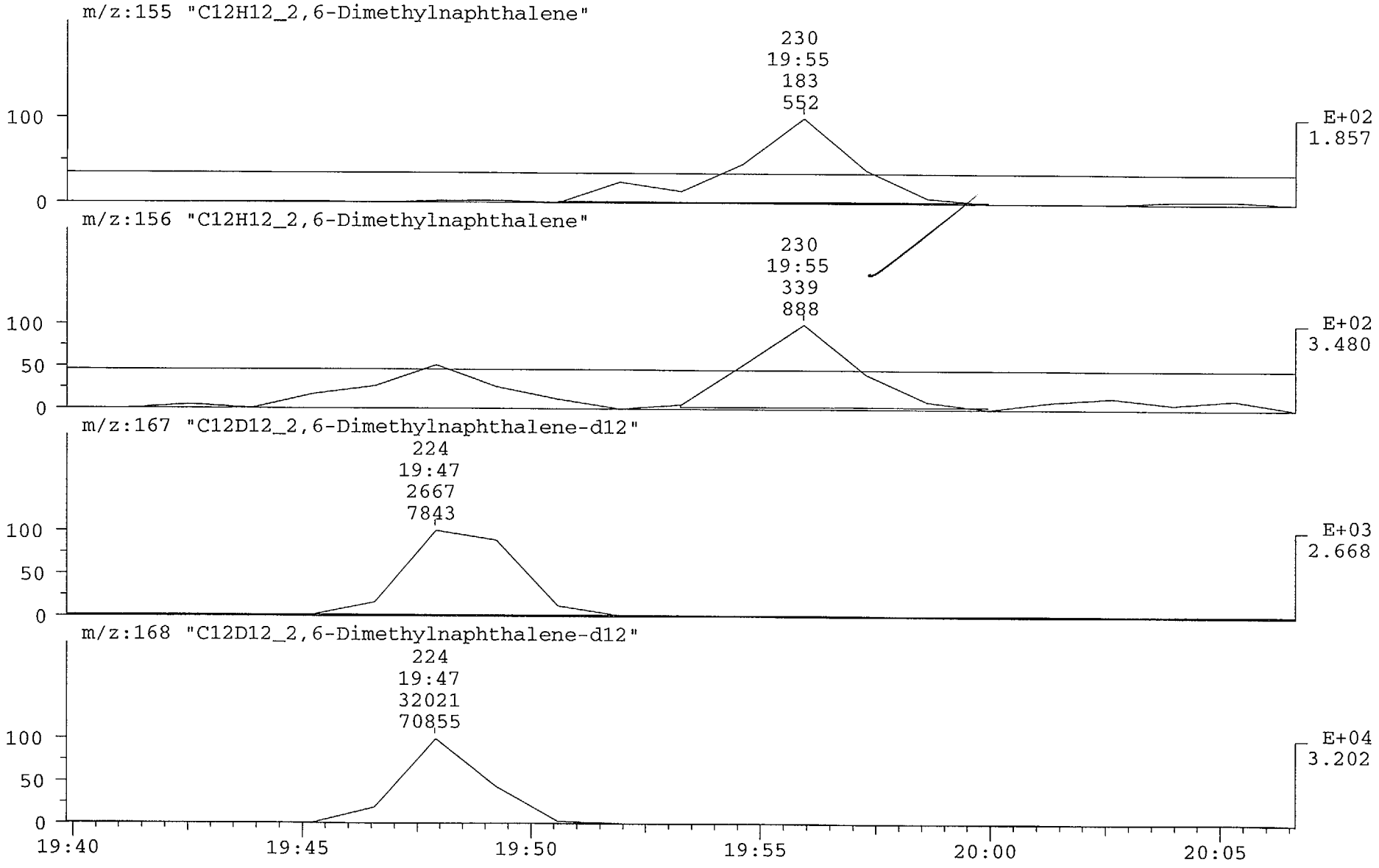
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



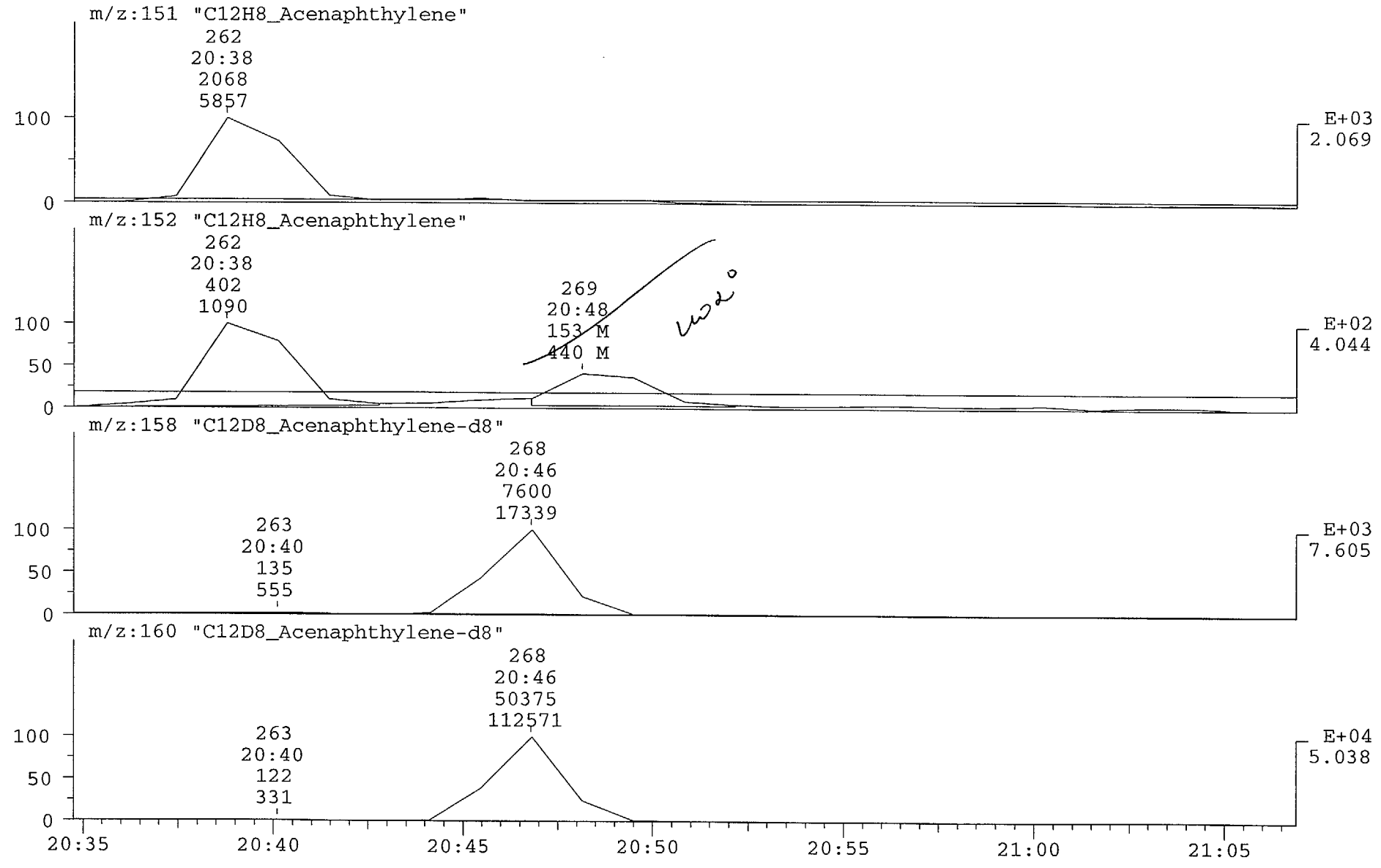
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



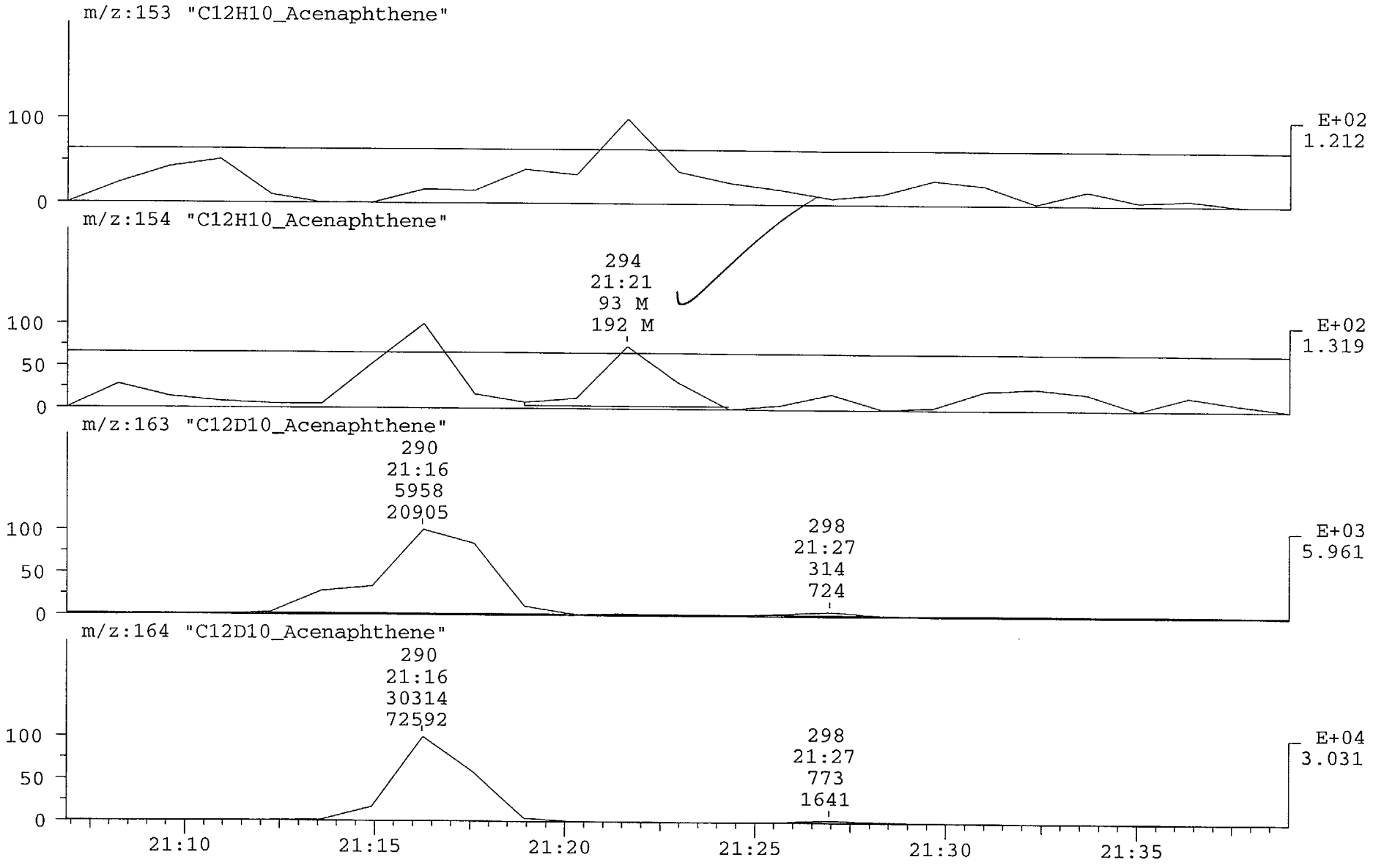
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



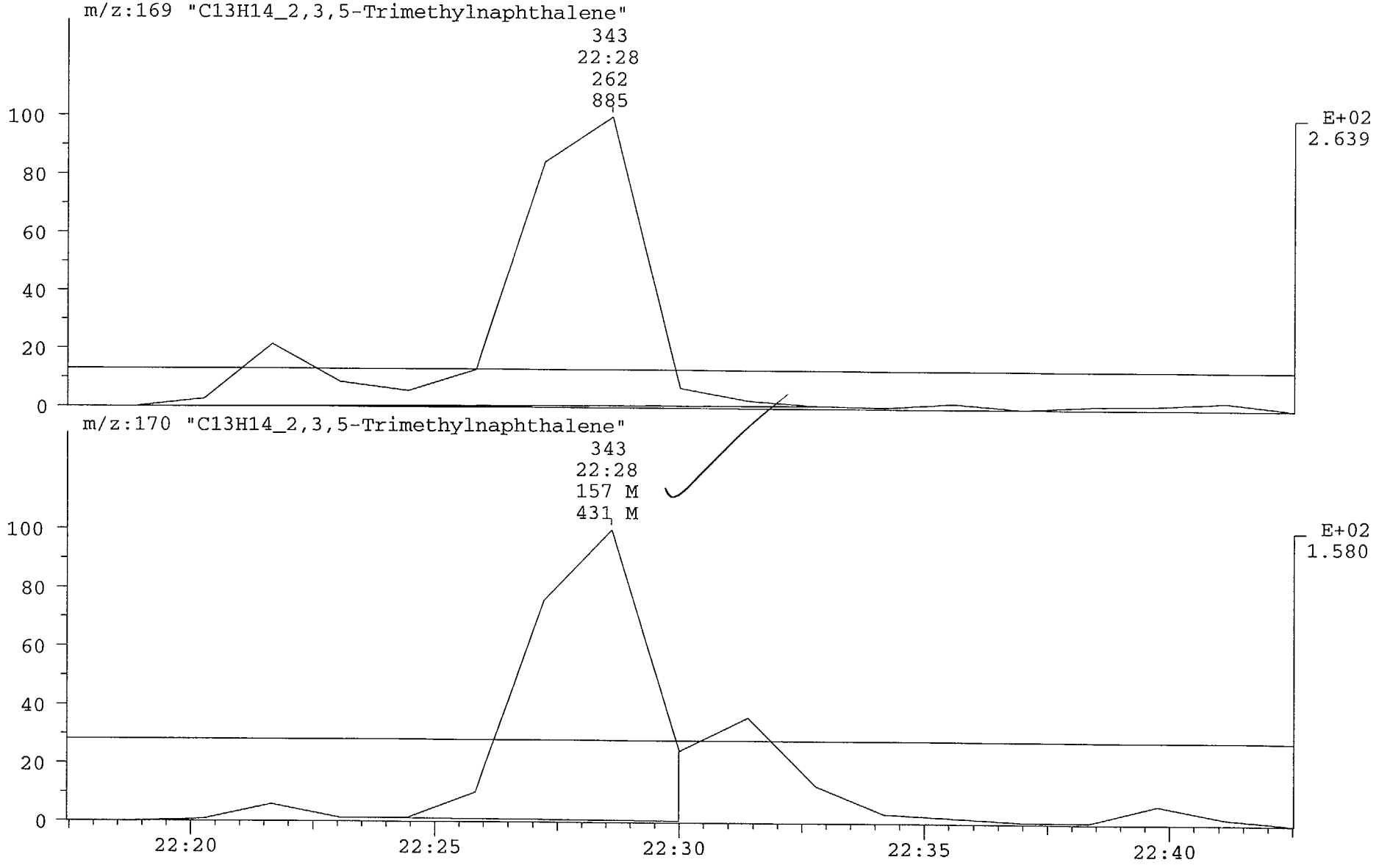
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



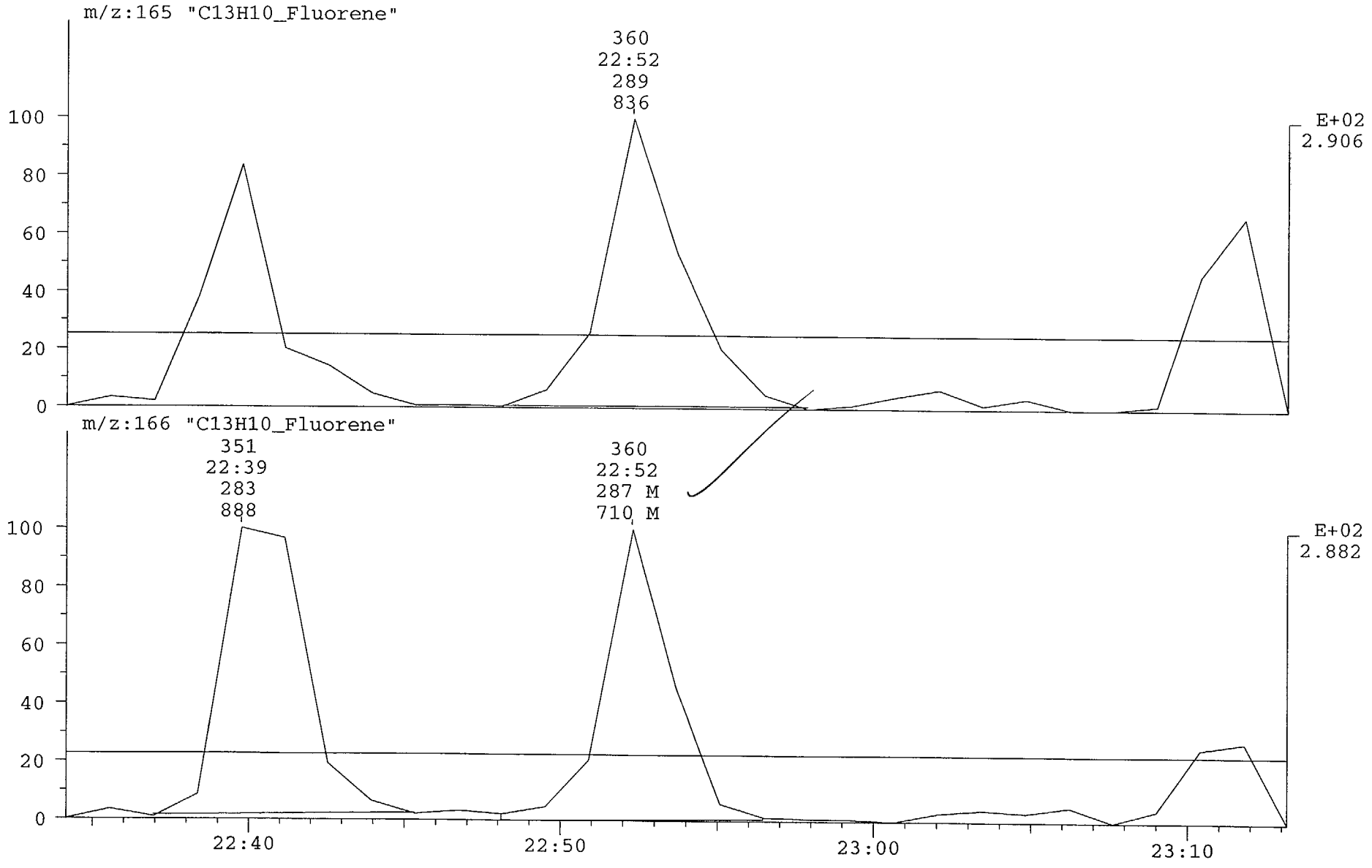
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



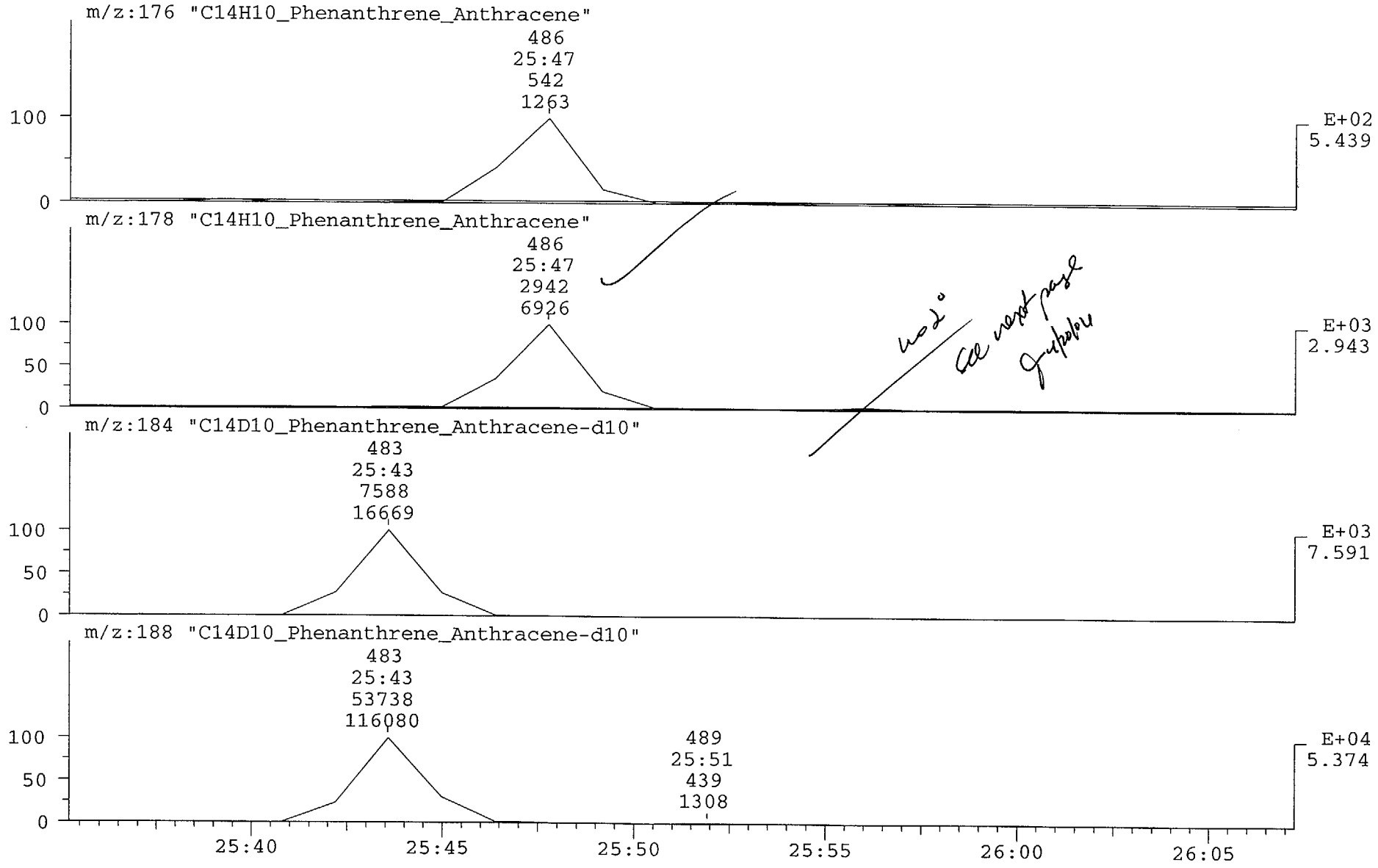
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

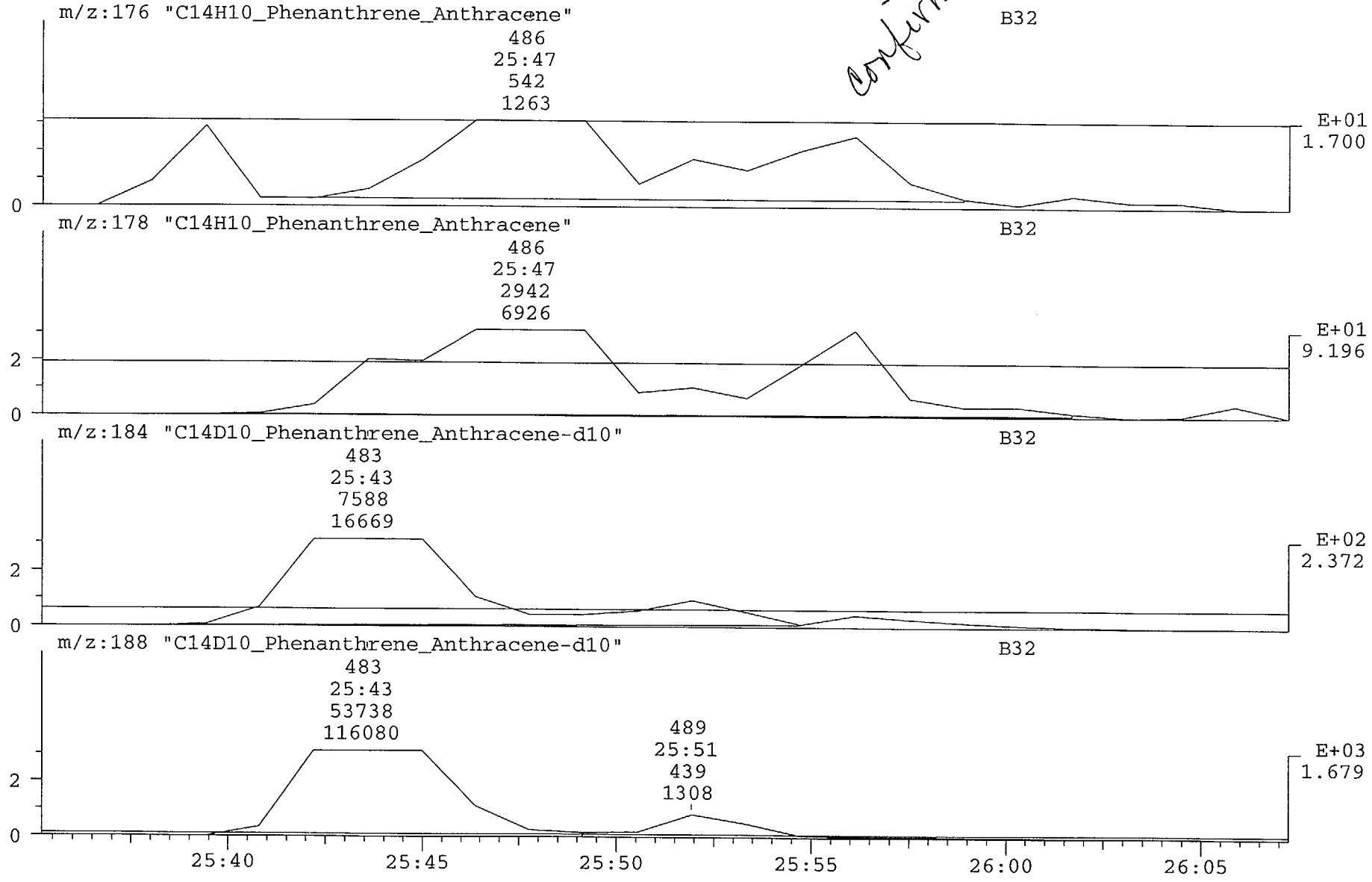


CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

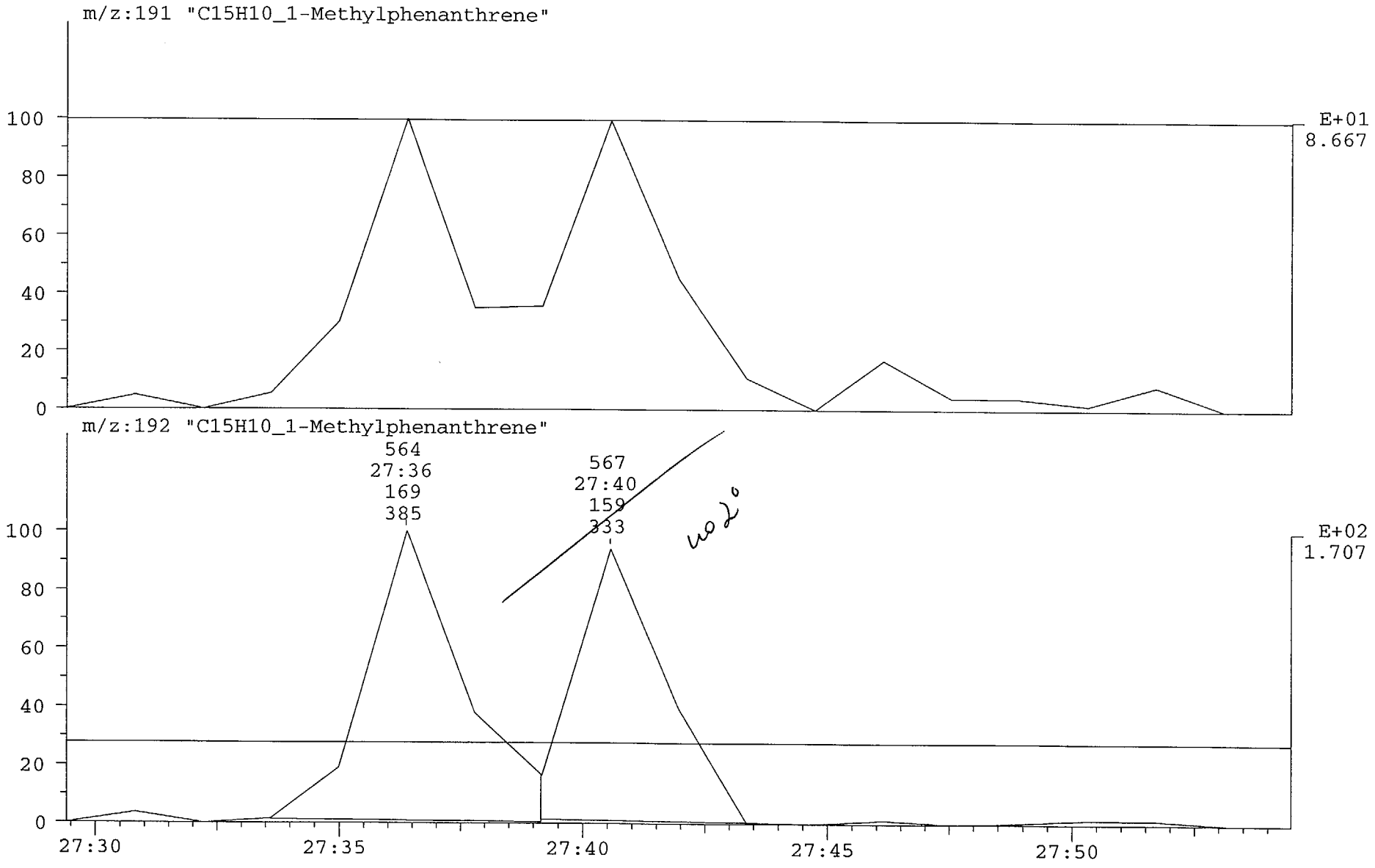


CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

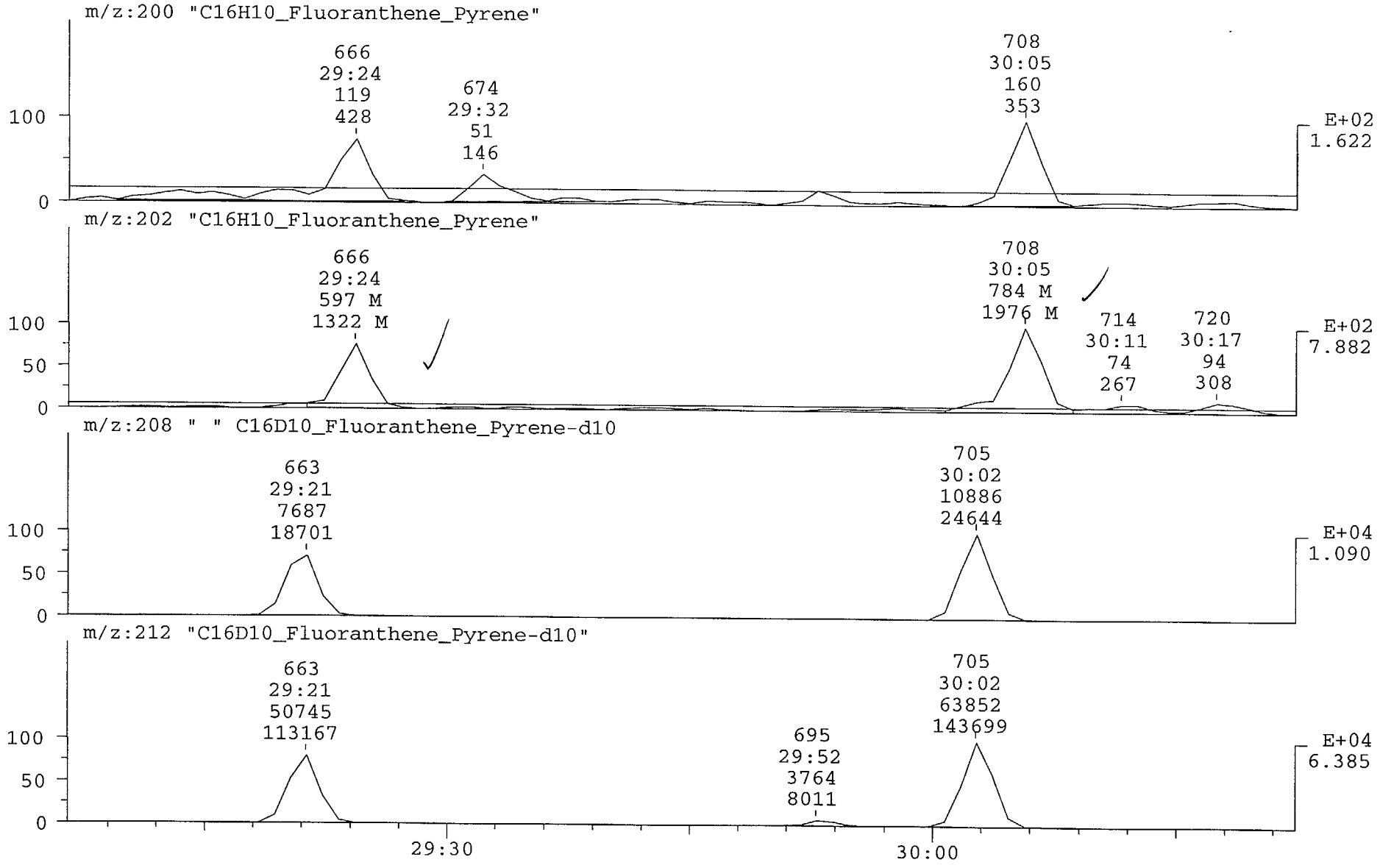
confirmation



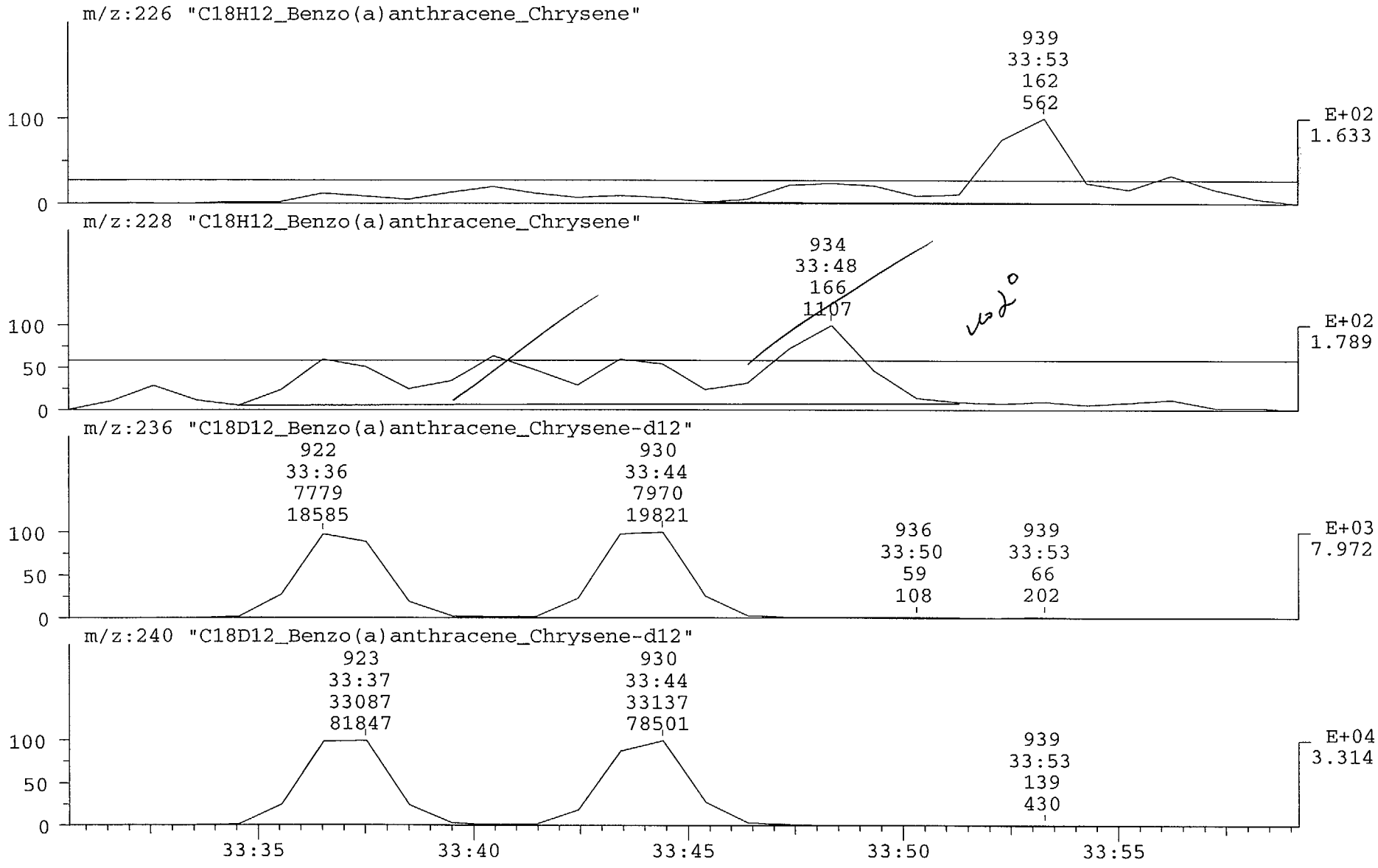
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



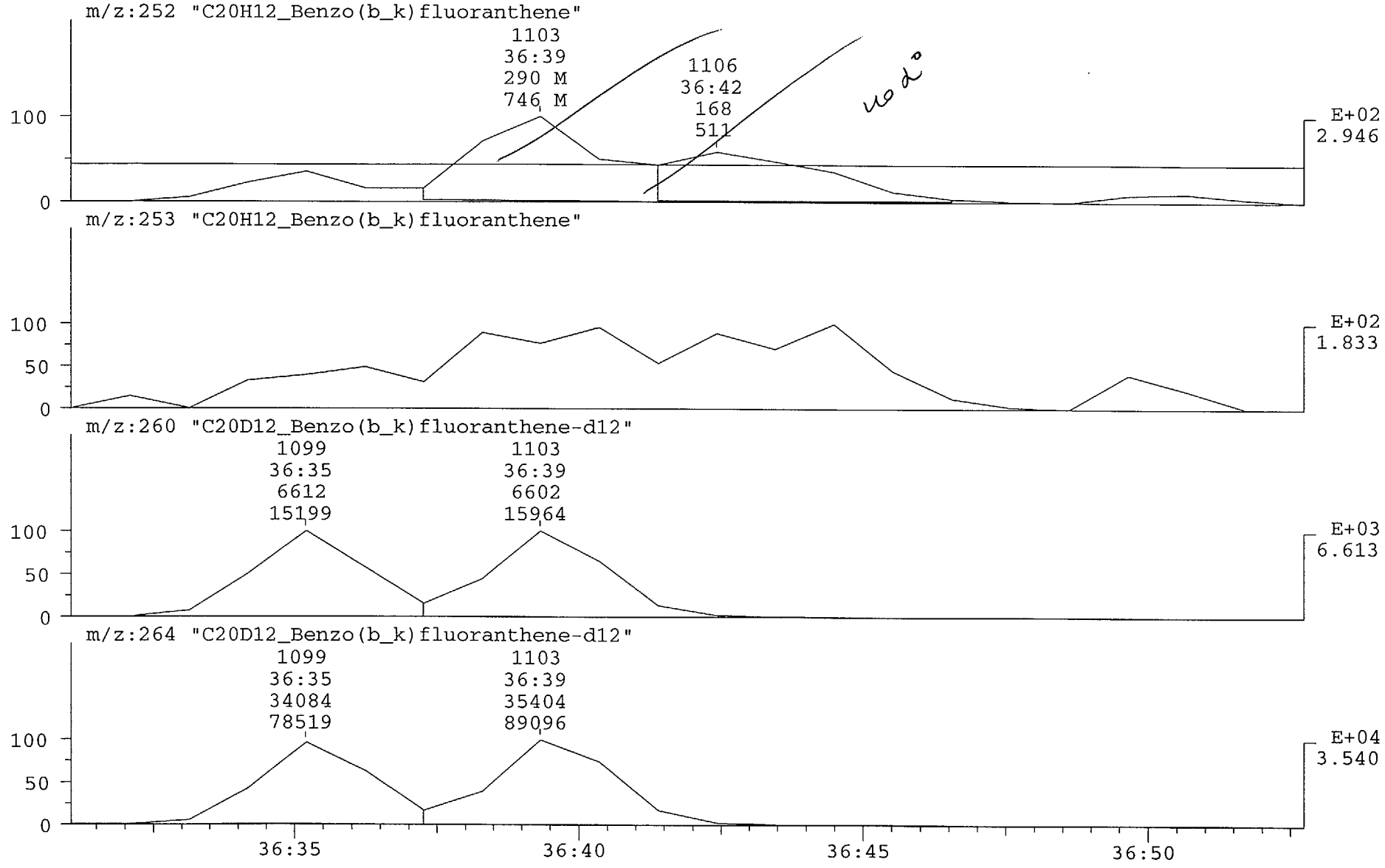
CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

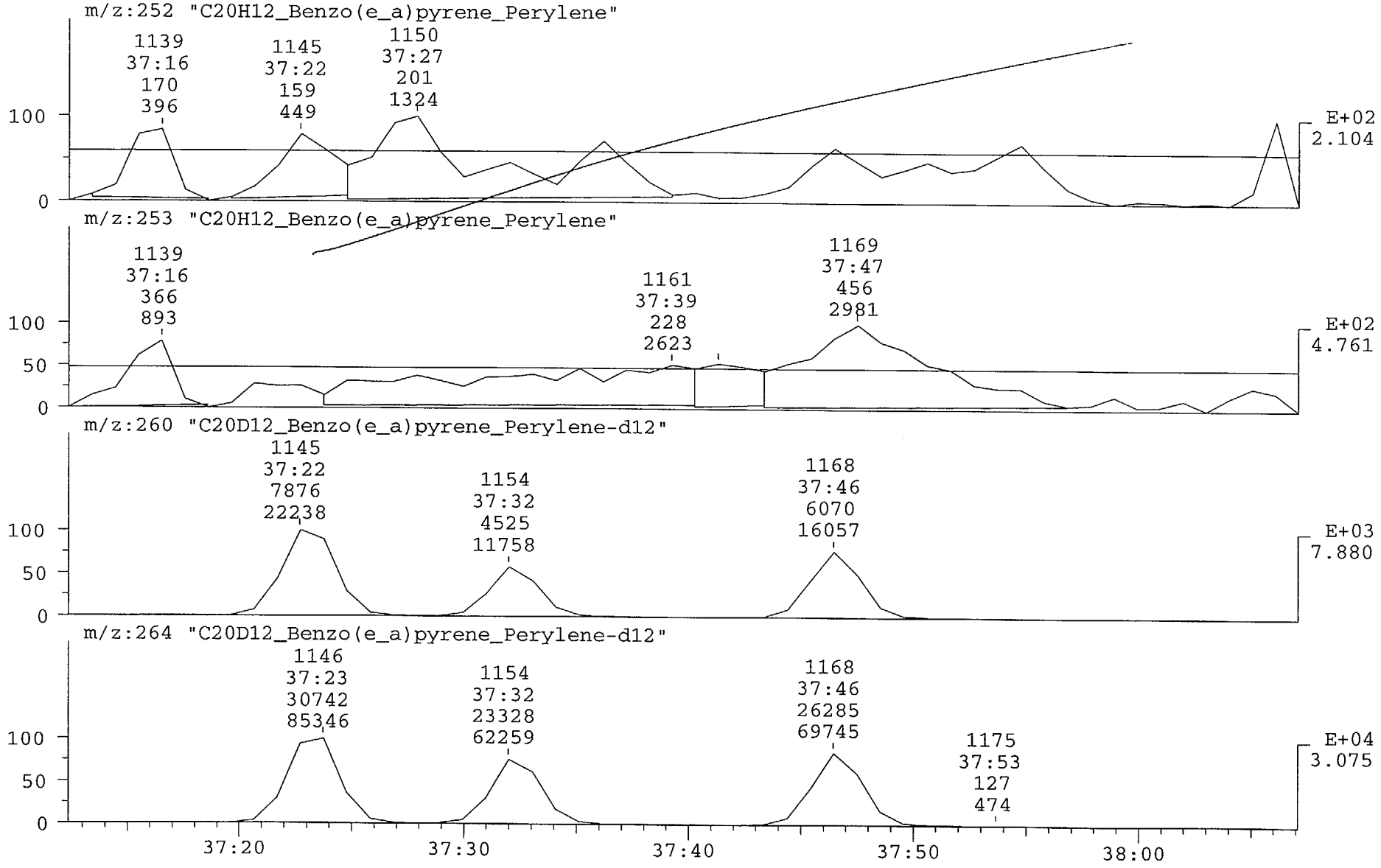


CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

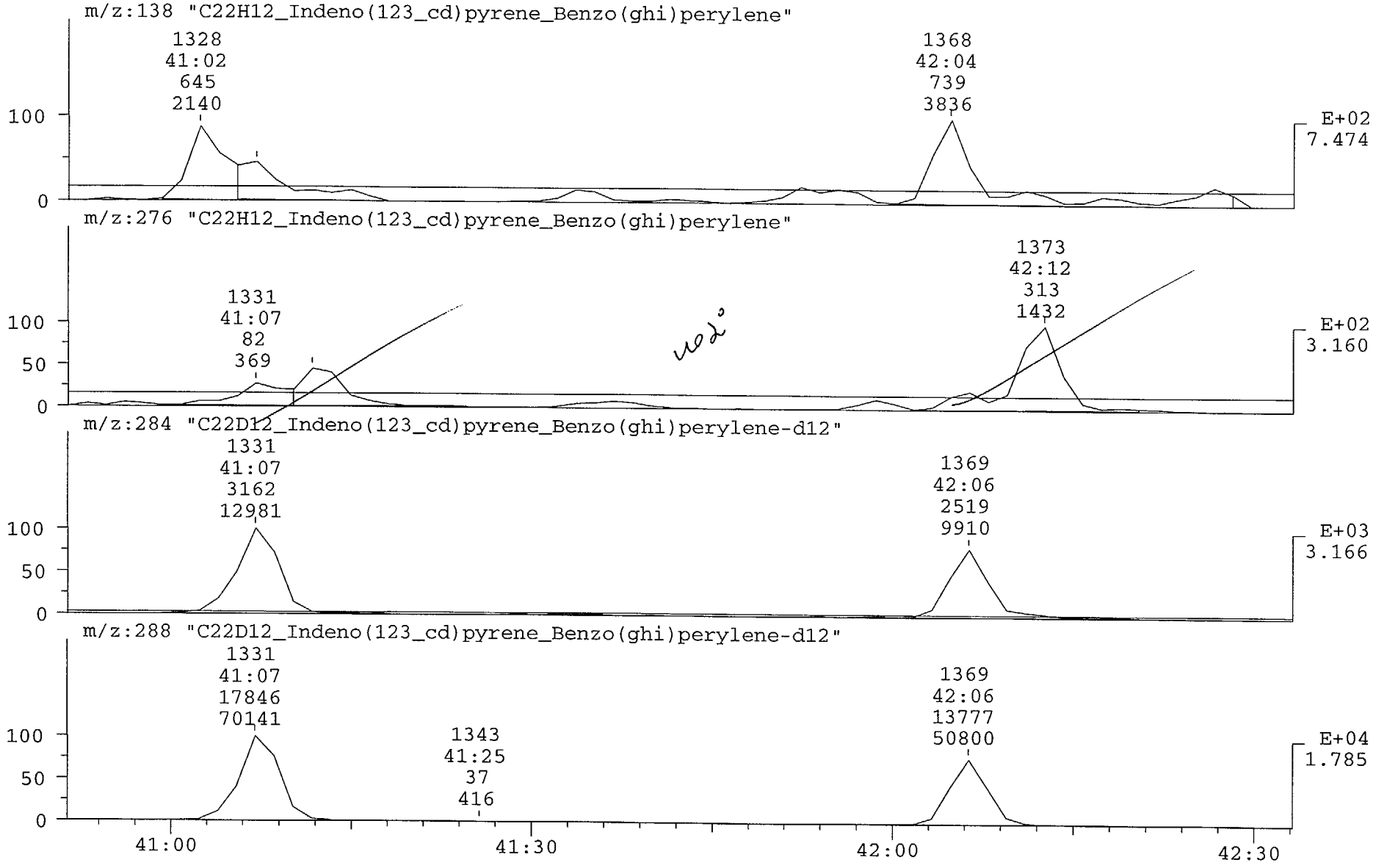


3560

CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

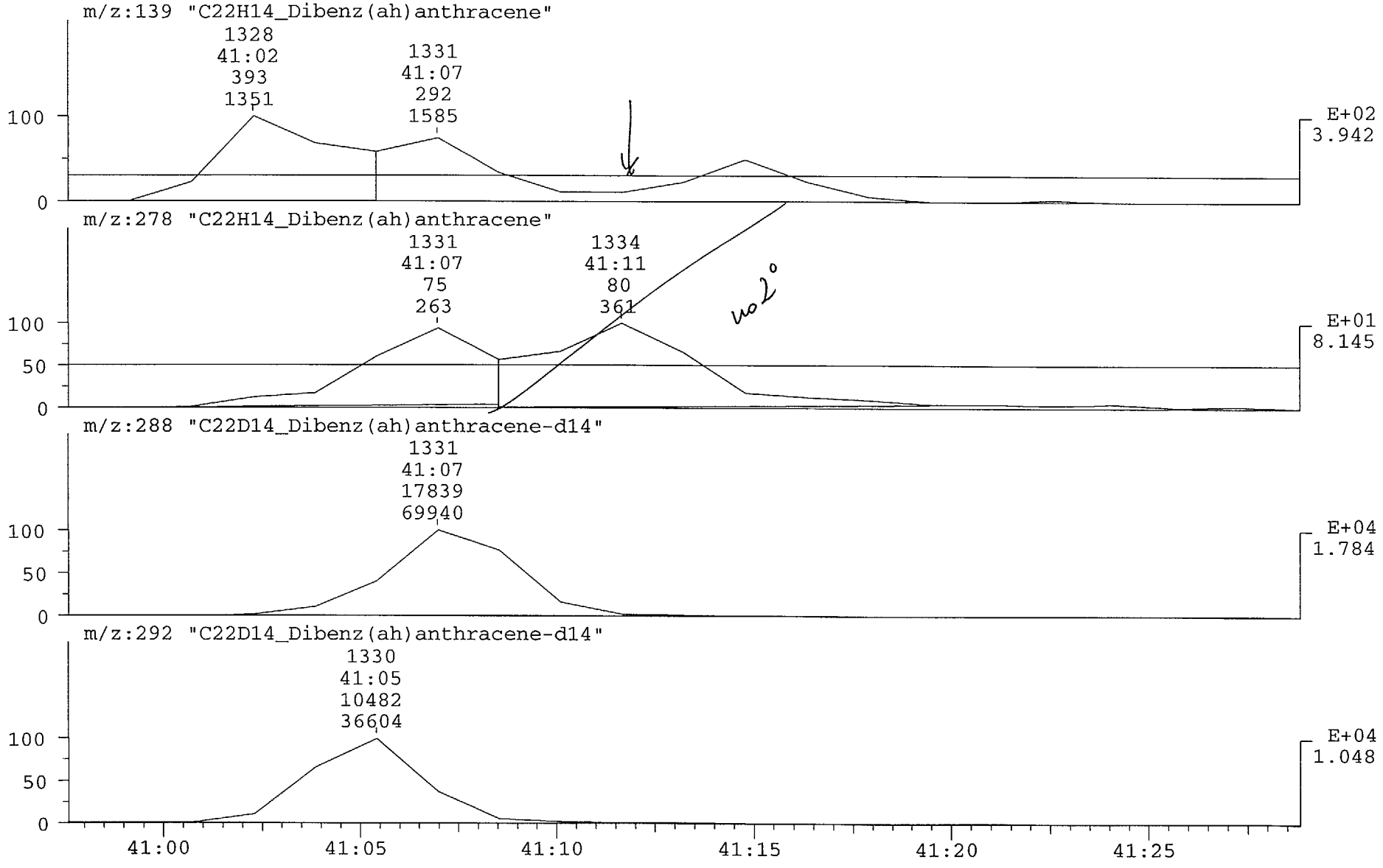


CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



3562

CHRO: yh2h2v 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2v1aa Meth=YA1 Dil=1 Start : 02:46:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-004 Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2H2V.D
Date Acquired: 19 Apr 2006   2:46 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H2V1AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  10
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

[POSTRUN]
Source=MS
PrimaryFile=\data.ms
PrimaryType=hgfile
timestamp=MS ChemStation
Matrix=1
InitialAmt=1
FinalAmt=1

Beginning Export Process Wed Apr 19 14:09:34 2006
d:\cdffiles\YH2H2V.CDF Translated at Wed Apr 19 14:09:34 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:36:03 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h2v.dat
NetCDF File (input): /usr/users/hp/data/yh2h2v.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:36:03 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	**Work Order #....:**	H2H2W1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**3.3**	**B J**	**20**	**1.0**	**ng/sampl**
Acenaphthylene	**7.8**	**J**	**20**	**0.36**	**ng/sampl**
Anthracene	**8.1**	**J**	**20**	**0.88**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.35	ng/sampl
Benzo(b)fluoranthene	**55**	**B**	**20**	**1.1**	**ng/sampl**
Benzo(k)fluoranthene	**4.6**	**J**	**20**	**1.4**	**ng/sampl**
Benzo(ghi)perylene	**4.4**	**J**	**20**	**1.4**	**ng/sampl**
Benzo(a)pyrene	ND		20	1.7	ng/sampl
Benzo(e)pyrene	ND		20	1.5	ng/sampl
Chrysene	**21**		**20**	**0.39**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.92	ng/sampl
Fluoranthene	**32**	**B**	**20**	**0.52**	**ng/sampl**
Fluorene	**10**	**B J**	**20**	**0.93**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	ND		20	1.4	ng/sampl
2-Methylnaphthalene	**52**	**B J**	**20**	**0.51**	**ng/sampl**
Naphthalene	**1900**	**B**	**20**	**0.67**	**ng/sampl**
Perylene	ND		20	1.6	ng/sampl
Phenanthrene	**96**	**B**	**20**	**0.77**	**ng/sampl**
Pyrene	**30**	**B J**	**20**	**0.51**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	89	15 - 120
2-Methylnaphthalene-d10	96	20 - 120
Acenaphthylene-d8	109	20 - 120
Phenanthrene-d10	111	30 - 120
Fluoranthene-d10	109	30 - 120
Benzo(a)anthracene-d12	108	30 - 120
Chrysene-d12	98	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	110	30 - 120
Benzo(a)pyrene-d12	105	30 - 120
Perylene-d12	101	30 - 120
Indeno(1,2,3-cd)pyrene-d12	104	30 - 120
Dibenz(ah)anthracene-d14	114	30 - 120
Benzo(ghi)perylene-d12	103	30 - 120

STL Knoxville - ACS

Sample ID: G-3032/3033-R2-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 005	**Work Order #....:**	H2H2W1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	101	30 - 140
Terphenyl-d14	102	30 - 140
13C6-Fluorene	106	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2W1AA	Prep Batch	6100060	Lot No	H6D030241-005
Data File	/20060427s1/yh2h2w2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90340	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/29/06
Analysis Time	20:38	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	16:10	237813	98804	1.623	500.0	447.128141	89.43	447.128141		0.788
Naphthalene	16:13	1087613	444591	1.233		1855.15707		1855.15707	B	0.667
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:06	22610	9432	1.270		51.753916		51.753916	B J	0.512
2-Methylnaphthalene-d10	18:02	172042	76878	1.093	500.0	480.465268	96.09	480.465268		0.640
1-Methylnaphthalene	18:25	14090	5605	1.358		34.179846		34.179846	B	0.538
1-Methylnaphthalene-d10	18:20	151798	68398	0.958	500.0	483.795711	96.76	483.795711		0.731
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	10592	5055	1.552		19.832967		19.832967	J	0.754
2,6-Dimethylnaphthalene	19:56	6371	2712	1.240		15.623263		15.623263	J	1.07
2,6-Dimethylnaphthalene-d1	19:47	164382	68644	1.009	500.0	497.155644	99.43	497.155644		0.659
C2 Alkylnaphthalenes				1.240		15.623263		15.623263	J	0.745
Acenaphthylene	20:48	5610	1524	1.221		7.826237		7.826237	J	0.361
Acenaphthylene-d8	20:46	293479	116375	1.646	500.0	544.109697	108.82	544.109697		0.612
Acenaphthene-d10	21:16	163804	73250	1.000	500.0	500.000000	100.00	500.000000		1.18
Acenaphthene	21:21	1440	587	0.740		3.317400		3.317400	BJ	1.05
2,3,5-Trimethylnaphthalene	22:30	1293	497	1.140		3.450463		3.450463	J	0.831
C3 Alkylnaphthalenes				1.140		3.450463		3.450463	J	0.577
Fluorene d-10	22:46	428878	201619	0.805	1000	1011.77025	101.18	1011.77025		0.830
Fluorene-C13	22:52	419204	156442	0.752	1000	1057.71365	105.77	1057.71365		0.644
Fluorene	22:50	4716	1544	0.892		10.035884		10.035884	BJ	0.929
Phenanthrene-d10	25:42	263423	116100	0.793	500.0	554.147575	110.83	554.147575		0.677
Phenanthrene	25:46	61294	28036	1.210		96.138081		96.138081	B	0.774
Anthracene-d10								ND		0.000000
Anthracene	25:54	4525	1976	1.065		8.067401		8.067401	J	0.880
1-Methylphenanthrene	27:40	3193	1074	0.871		6.960368		6.960368	J	0.952
Fluoranthene-d10	29:20	248969	110533	0.761	500.0	545.286241	109.06	545.286241		0.653
Fluoranthene	29:23	20469	8655	1.298		31.667141		31.667141	B	0.523
Pyrene-d10	30:02	299805	125731	1.000	500.0	500.000000	100.00	500.000000		0.497
Pyrene	30:05	19609	7162	1.319		29.858535		29.858535	B J	0.514
Terphenyl-d14	30:30	388035	180063	0.762	1000	1023.24121	102.32	1023.24121		0.312
Benzo(a)Anthracene-d12	33:37	165747	74359	0.514	500.0	537.694025	107.54	537.694025		0.832
Benzo(a)anthracene				1.385				ND		0.352
Chrysene-d12	33:44	151178	69976	0.516	500.0	488.594228	97.72	488.594228		0.828
Chrysene	33:48	8605	3748	1.333		21.344012		21.344012	B	0.389
Benzo(b)Fluoranthene-d12	36:35	146199	61372	0.895	500.0	545.143623	109.03	545.143623		1.30
Benzo(k)Fluoranthene-d12	36:39	170605	61452	1.030	500.0	552.408446	110.48	552.408446		1.13
Benzo(b)fluoranthene	36:38	23242	8899	1.446		54.988841		54.988841	B	1.06
Benzo(k)fluoranthene	36:42	1725	567	1.093		4.623415		4.623415	BJ	1.40
Benzo(e)pyrene-d12	37:23	149891	57910	1.000	500.0	500.000000	100.00	500.000000		1.17
Benzo(e)pyrene				1.495				ND		1.50
Benzo(a)Pyrene-d12	37:33	121647	41728	0.776	500.0	522.895940	104.58	522.895940		1.50
Benzo(a)pyrene				1.286				ND		1.75
Perylene-d12	37:46	141841	50903	0.936	500.0	505.372746	101.07	505.372746		1.24
Perylene				1.140				ND		1.62
3-Methylcholanthrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2W1AA	Prep Batch	6100060	Lot No	H6D030241-005
Data File	/20060427s1/yh2h2w2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90340	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/29/06
Analysis Time	20:38	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	68740	19353	0.402	500.0	570.833711	114.17	570.833711		1.18
Indeno(1,2,3-cd)pyrene-d12	41:07	120330	30525	0.772	500.0	519.869601	103.97	519.869601		0.419
Indeno(1,2,3-cd)pyrene				1.259				ND		1.40
Dibenz(a,h)anthracene				1.961				ND		0.922
Benzo(ghi)Perylene-d12	42:06	86793	23893	0.561	500.0	516.173226	103.23	516.173226		0.577
Benzo(ghi)perylene	42:11	1256	280	1.639		4.414172		4.414172	BJ	1.37
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

4/27/06

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2W1AA	Prep Batch	6100060	Lot No	H6D030241-005
Data File	/20060427s1/yh2h2w2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90340	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	04/27/06 20:38	Matrix	AIR	Date Sampled	03/29/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	163		65				
	Naphthalene	16:13	16:05	8	1087613		444591			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	188		75				
	Naphthalene-d8	16:10	16:02	8	237813		98804			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	100		40				
	2-Methylnaphthalene	18:06	18:07	-1	22610		9432			AVB	M
	1-Methylnaphthalene	18:25	18:26	-1	14090		5605			AVB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	103		41				
	2-Methylnaphthalene-d10	18:02	18:02	0	172042		76878			MVV	
	1-Methylnaphthalene-d10	18:20	18:21	-1	151798		68398			ABV	
	Acenaphthylene	20:48	20:52	-4	5610		1524			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	180		72				
	Biphenyl	19:27	19:30	-3	10592		5055			ABB	M
	Acenaphthene	21:21	21:25	-4	1440		587			MVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	183		73				
	2,6-Dimethylnaphthalene	19:56	19:58	-2	6371		2712			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	148		59				
	Acenaphthylene-d8	20:46	20:50	-4	293479		116375			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	145		58				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	173		69				
	Acenaphthene-d10	21:16	21:20	-4	163804		73250			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	193		77				
	Fluorene	22:50	22:56	-6	4716		1544			MVV	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	98		39				
	2,6-Dimethylnaphthalene	19:47	19:51	-4	164382		68644			ABB	M
169					169.0000		169.0000				
	Noise	00:00	00:00	0	120		48				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	130		52				
	2,3,5-Trimethylnaphthal	22:30	22:32	-2	1293		497			AVB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	113		45				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2W1AA	Prep Batch	6100060	Lot No	H6D030241-005
Data File	/20060427s1/yh2h2w2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90340	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	04/27/06 20:38	Matrix	AIR	Date Sampled	03/29/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					172.0000		172.0000				
	Fluorene-C13	22:52	22:56	-4	419204		156442			AVB	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	155		62				
	Fluorene d-10	22:46	22:51	-5	428878		201619			AVB	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	218		87				
	Phenanthrene	25:46	25:50	-4	61294		28036			ABB	M
	Anthracene	25:54	25:57	-3	4525		1976			ABB	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	135		54				
	Phenanthrene-d10	25:42	25:46	-4	263423		116100			ABV	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	193		77				
	1-Methylphenanthrene	27:40	27:43	-3	3193		1074			MVV	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	150		60				
	Fluoranthene	29:23	29:25	-2	20469		8655			ABB	M
	Pyrene	30:05	30:07	-2	19609		7162			ABB	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	125		50				
	Fluoranthene-d10	29:20	29:22	-2	248969		110533			AVV	
	Pyrene-d10	30:02	30:03	-1	299805		125731			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	73		29				
	Chrysene	33:48	33:48	0	8605		3748			MVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	108		43				
	Benzo(a)Anthracene-d12	33:37	33:37	0	165747		74359			ABV	
	Chrysene-d12	33:44	33:44	0	151178		69976			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	53		21				
	Terphenyl-d14	30:30	30:32	-2	388035		180063			ABB	
252					252.0000		252.0000				
	Noise	00:00	00:00	0	188		75				
	Benzo(b)fluoranthene	36:38	36:39	-1	23242		8899			ABV	M
	Benzo(k)fluoranthene	36:42	36:42	0	1725		567			AVB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	135		54				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	146199		61372			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	170605		61452			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	149891		57910			AVV	
	Benzo(a)Pyrene-d12	37:33	37:32	1	121647		41728			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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2W1AA	**Prep Batch**	6100060	**Lot No**	H6D030241-005
Data File	/20060427s1/yh2h2w2.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90340	**Prep Exp Date**	04/19/06	**Date Received**	04/02/06
Analysis Date	04/27/06 20:38	**Matrix**	AIR	**Date Sampled**	03/29/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOYA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

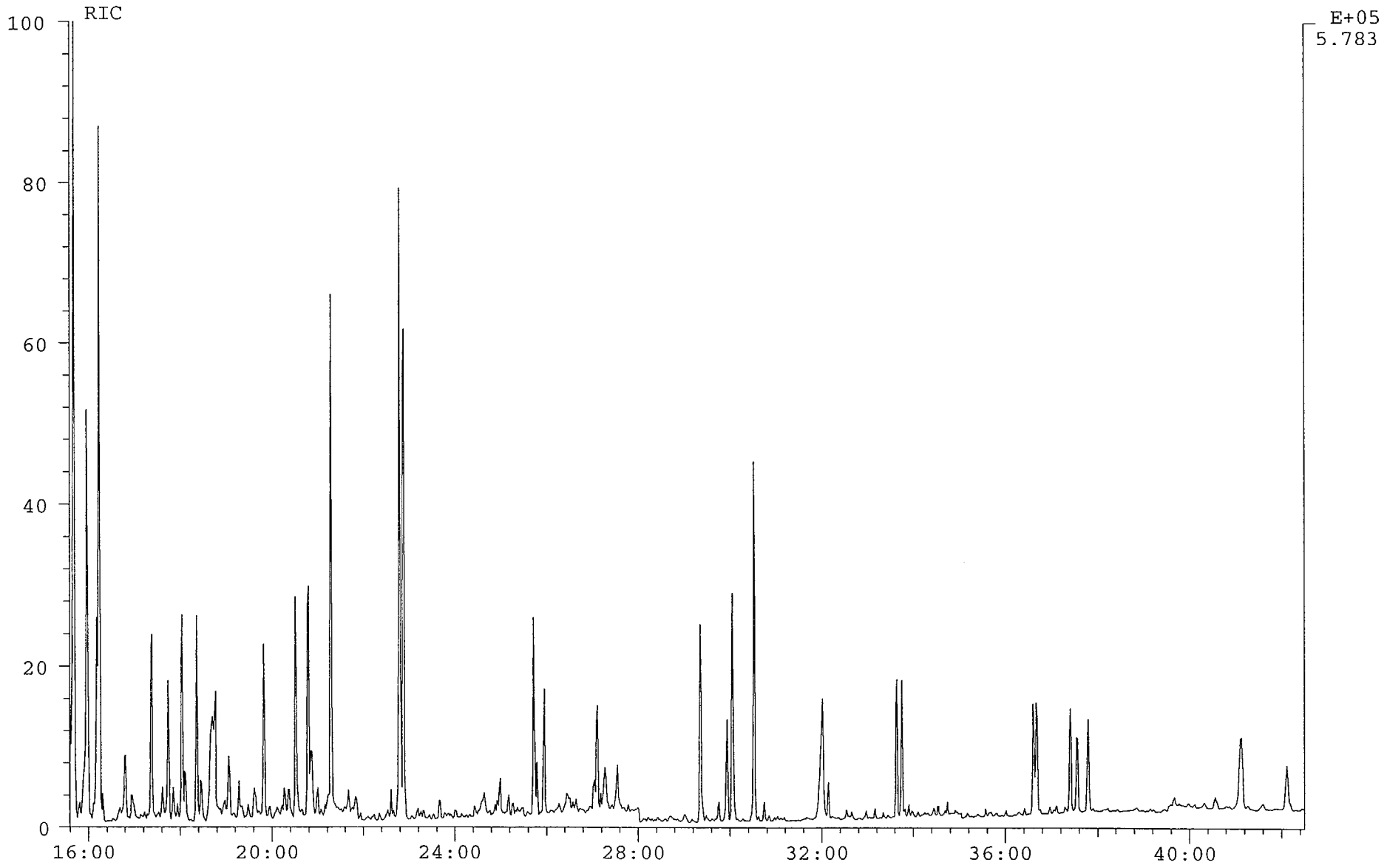
View Small Peaks? False **View deleted peaks?** False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Perylene-d12	37:46	37:46	0	141841		50903			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	83		33				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	108		43				
	Benzo(ghi)perylene	42:11	42:11	0	1256		280			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	70		28				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	38		15				
	Indeno(1,2,3-cd)pyrene-	41:07	41:05	2	120330		30525			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:04	2	86793		23893			AVB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	55		22				
	Dibenz(ah)Anthracene-d1	41:05	41:03	2	68740		19353			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	23		9				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	40		16				

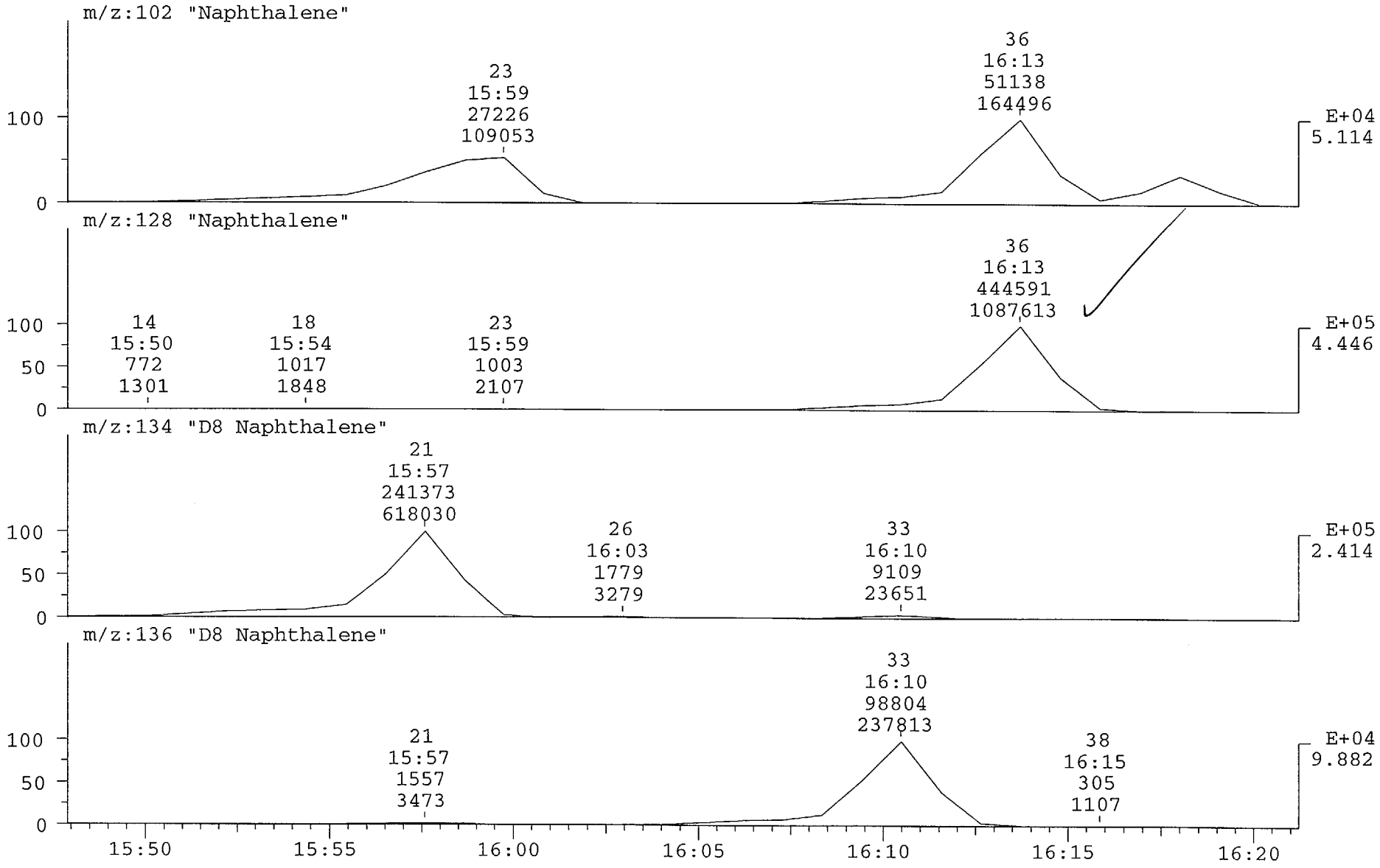
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Lot/Calc: J 4/27/06
QC/Rev JMC 4/28/06

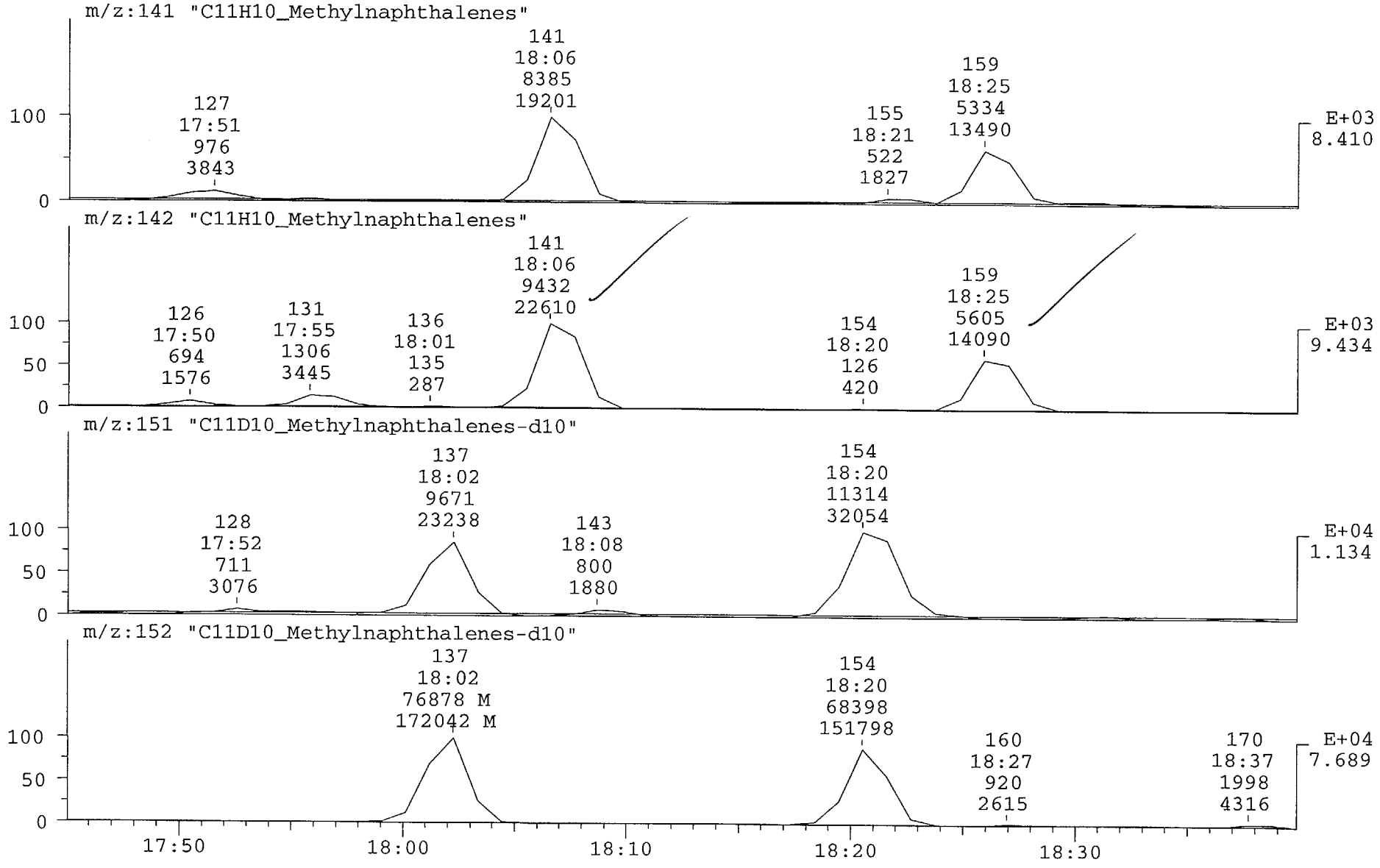
```
CHRO:  yh2h2w2                                  27-APR-06   Elapse:  15:36.1        1
Samp:  WO=h2h2w1aa Meth=YA1 Dil=1                           Start :  20:38:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                     Study :  6100060
Oper:  JMN           Client:  H6D030241-005                 Inlet :
Peak:  100.00  ppm     Label wndw:   1 > 1384               Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  0, 3.0
Disp:  Height  Area
```



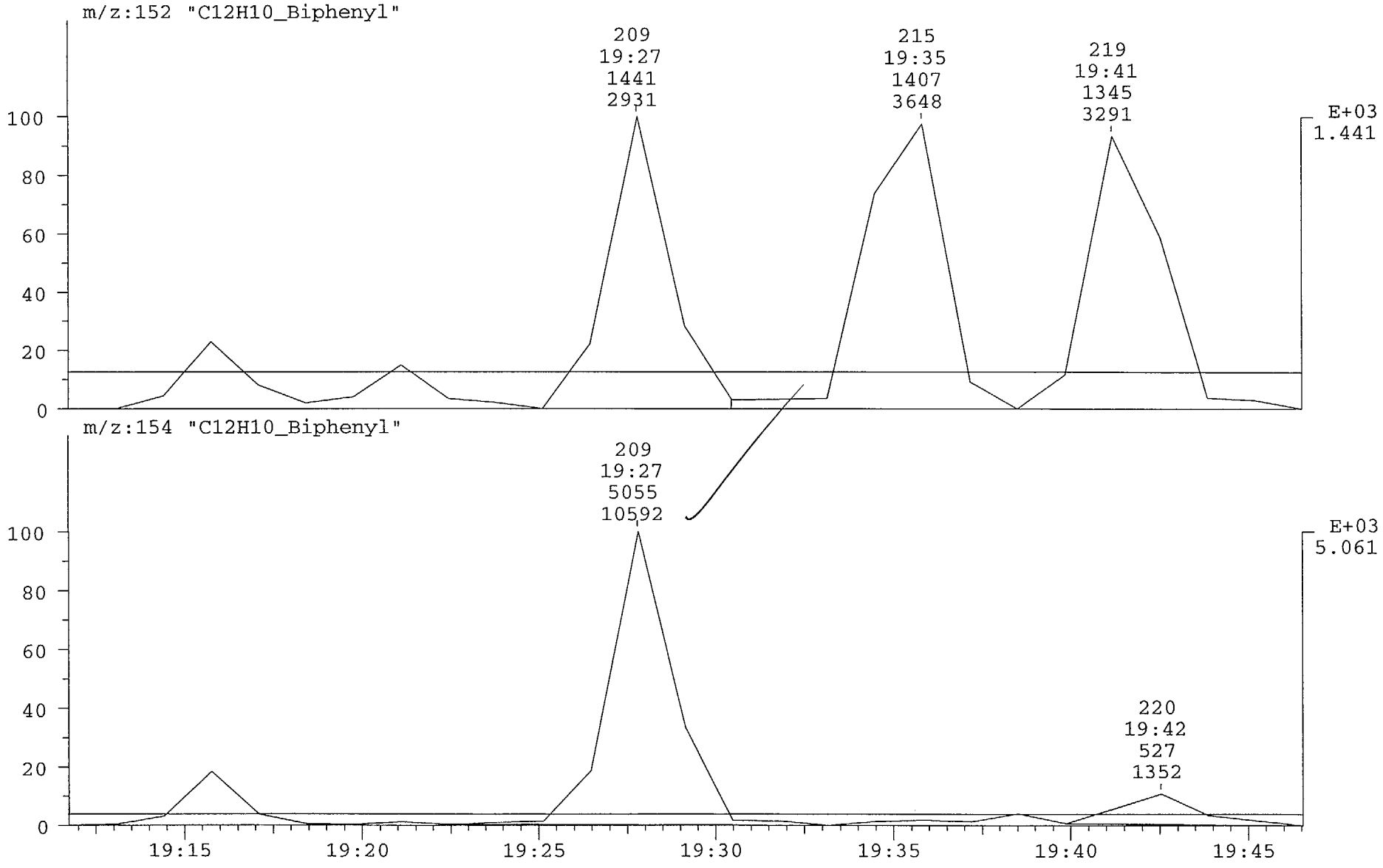
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



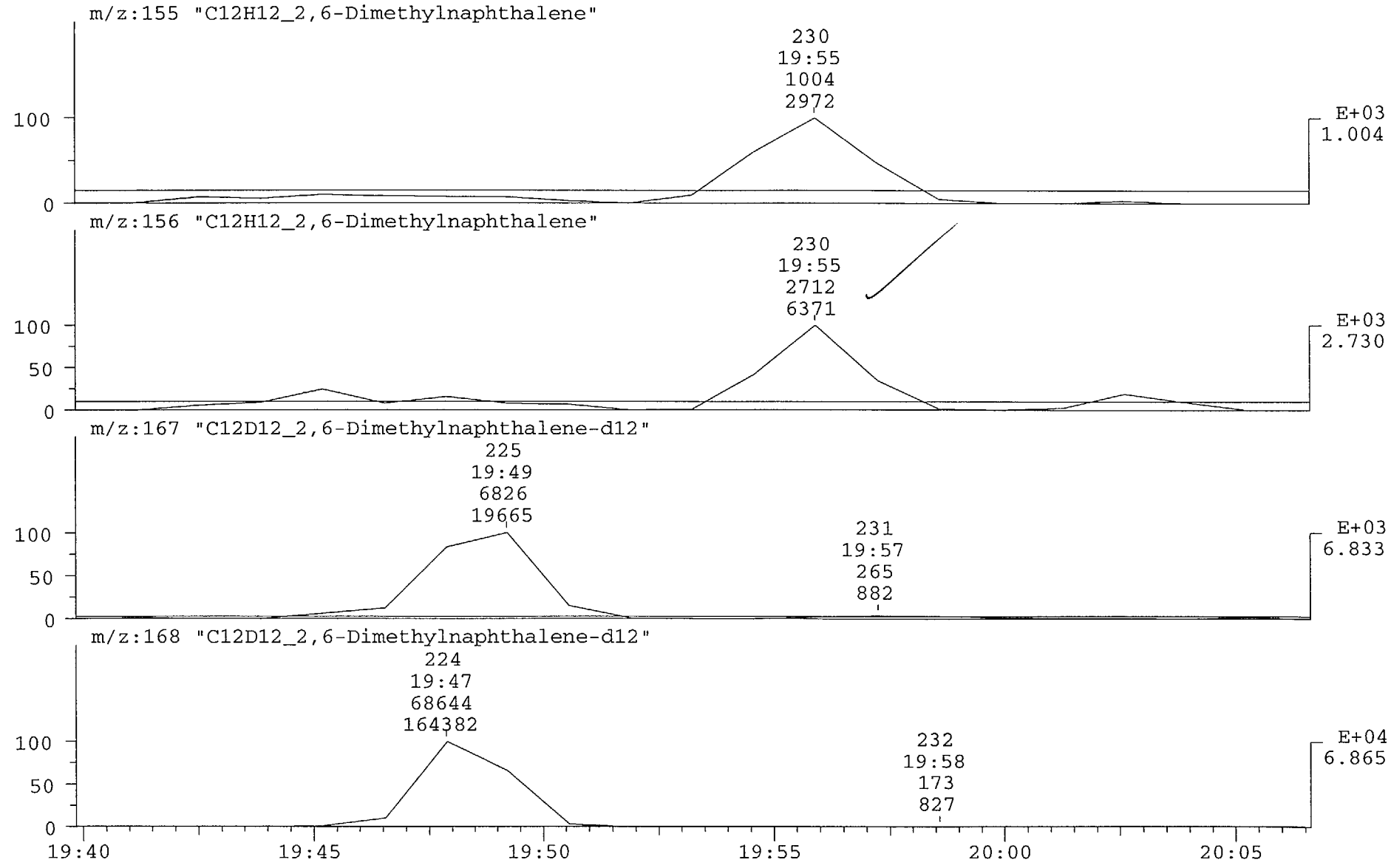
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



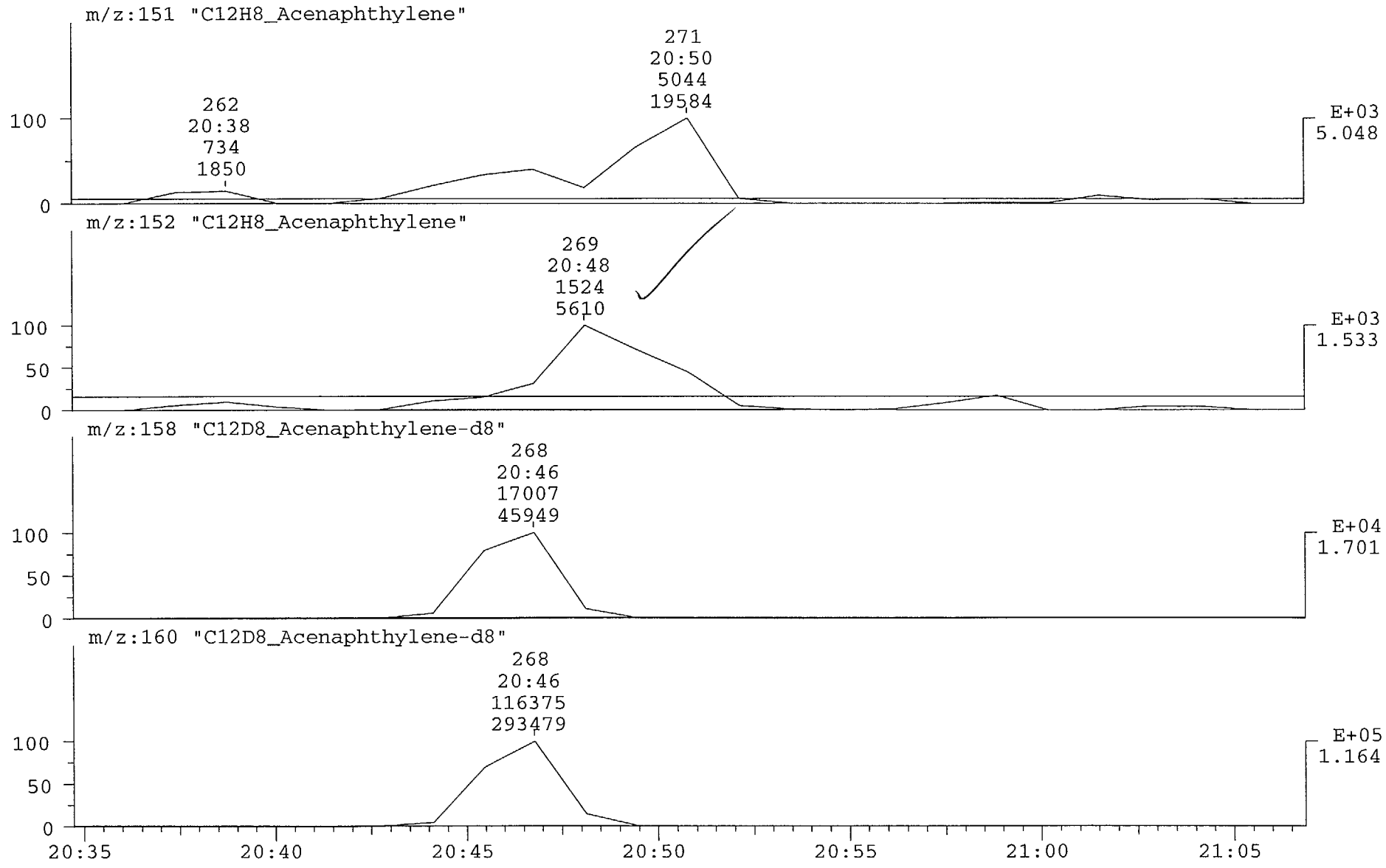
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



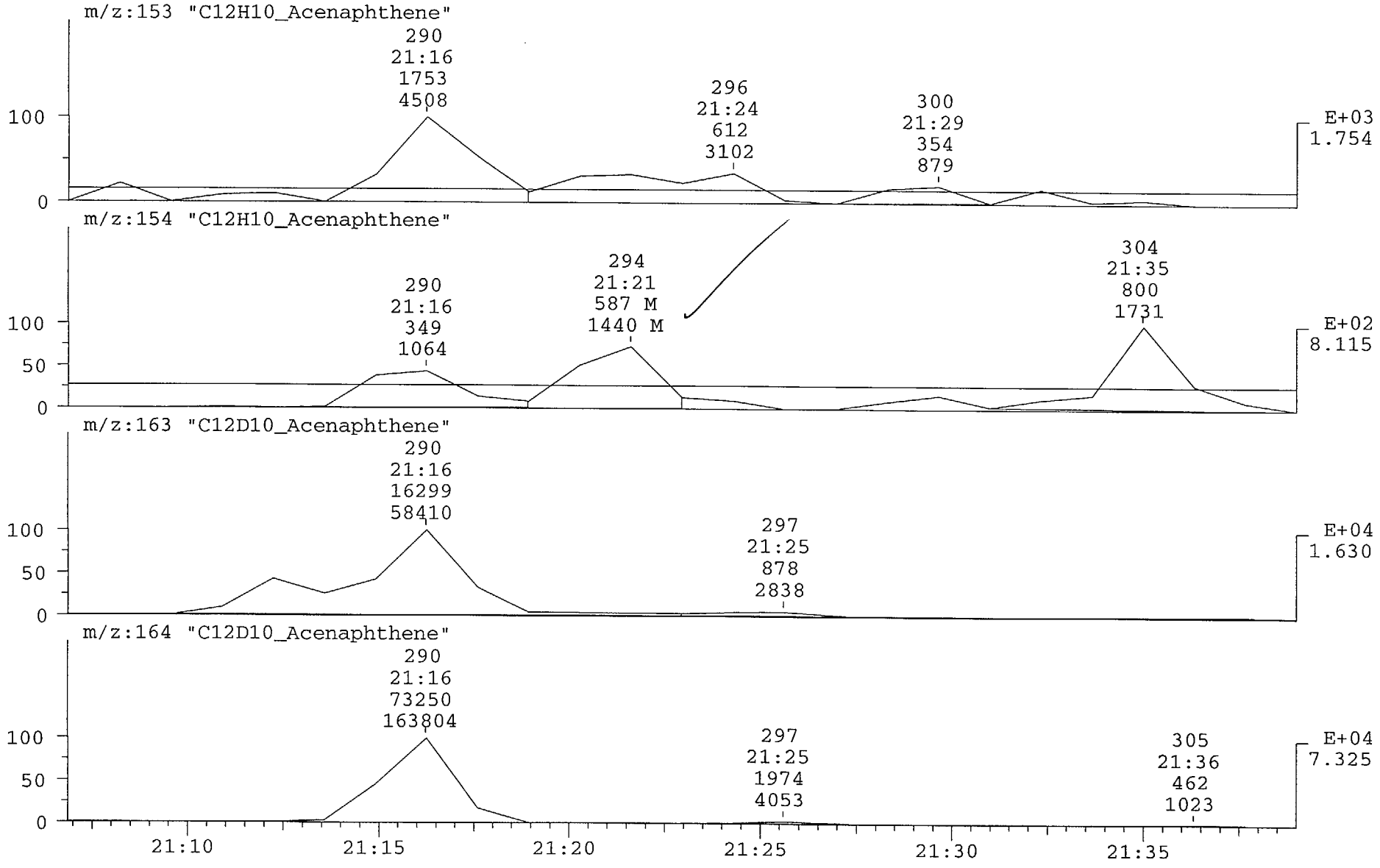
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



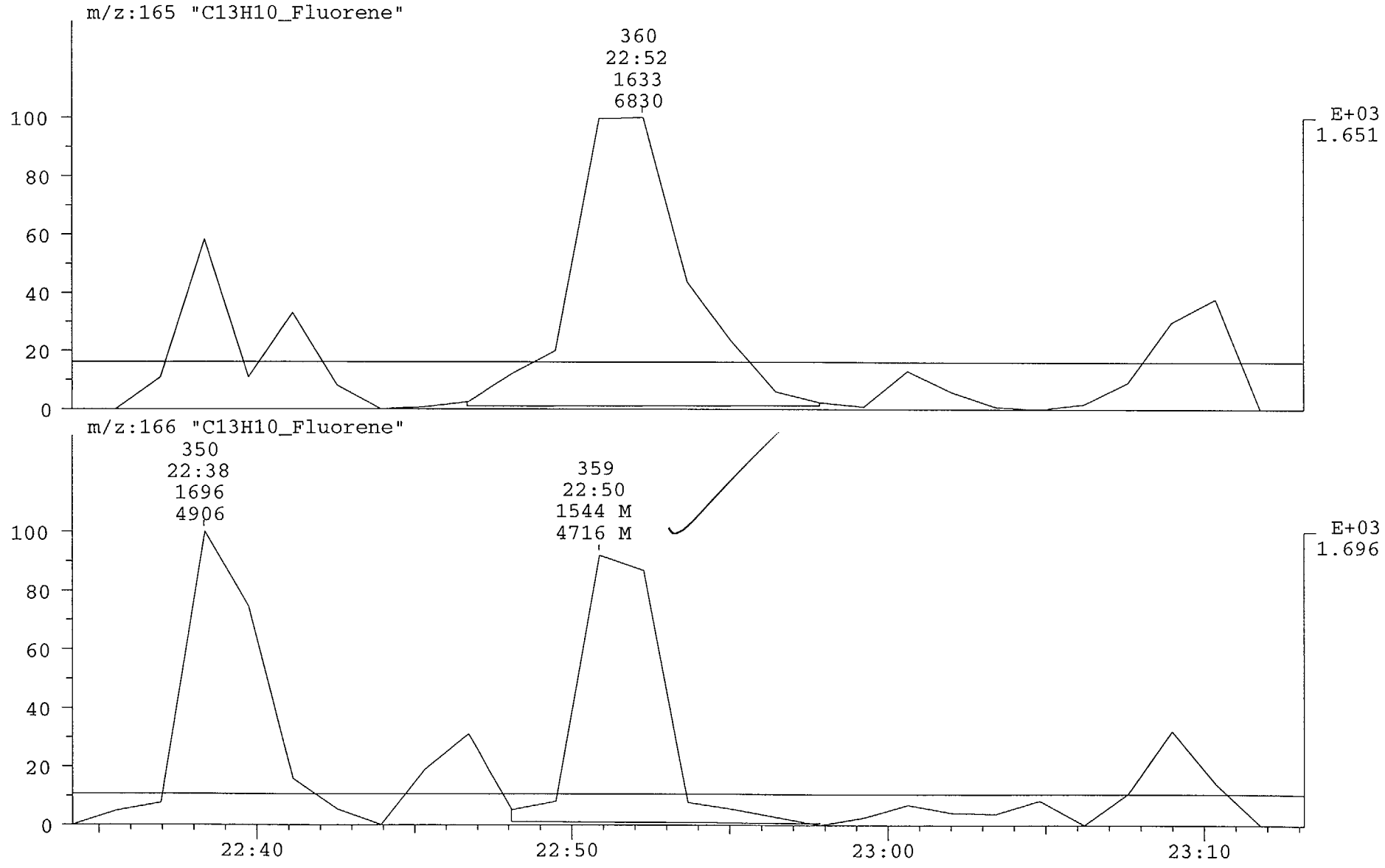
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



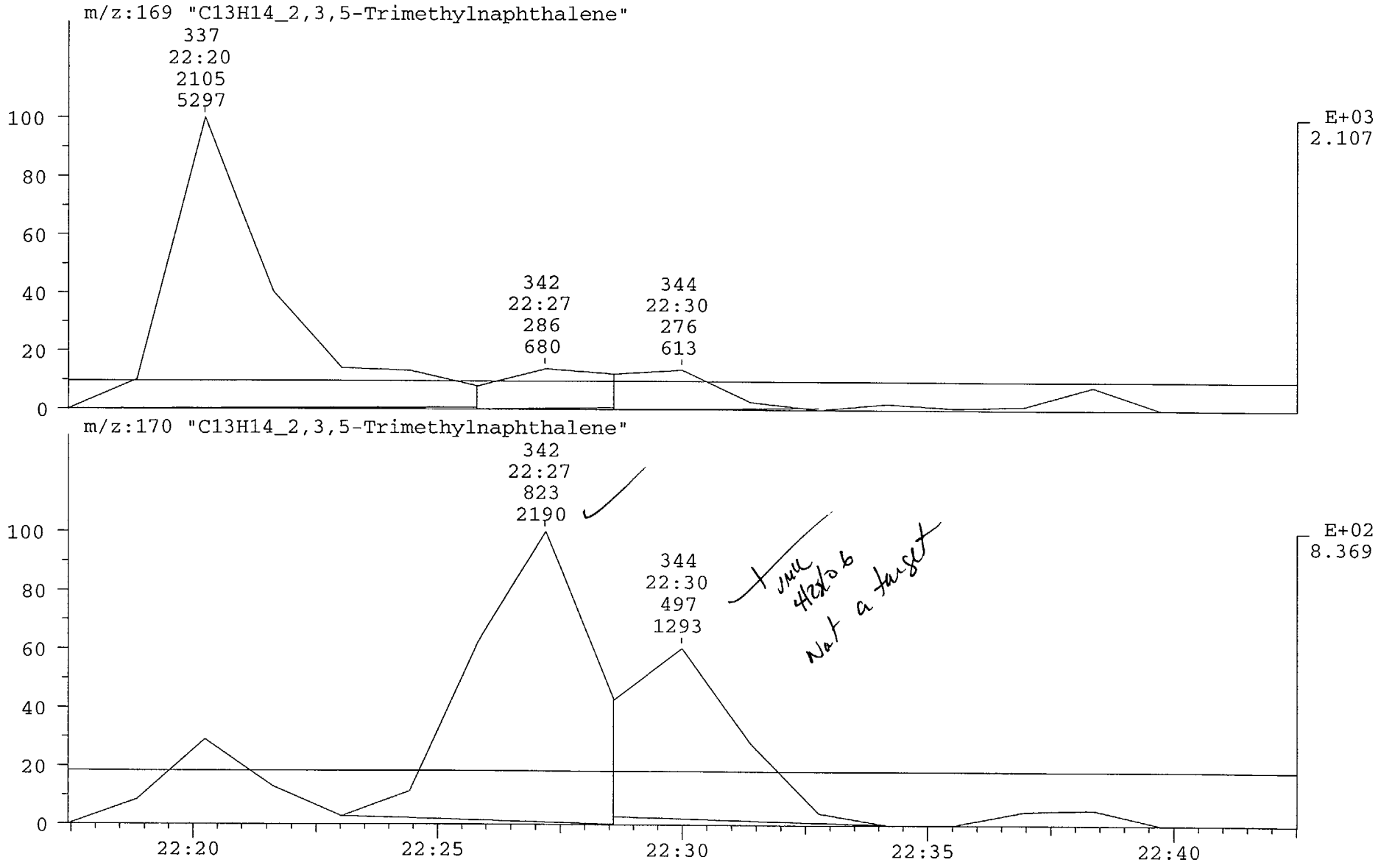
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

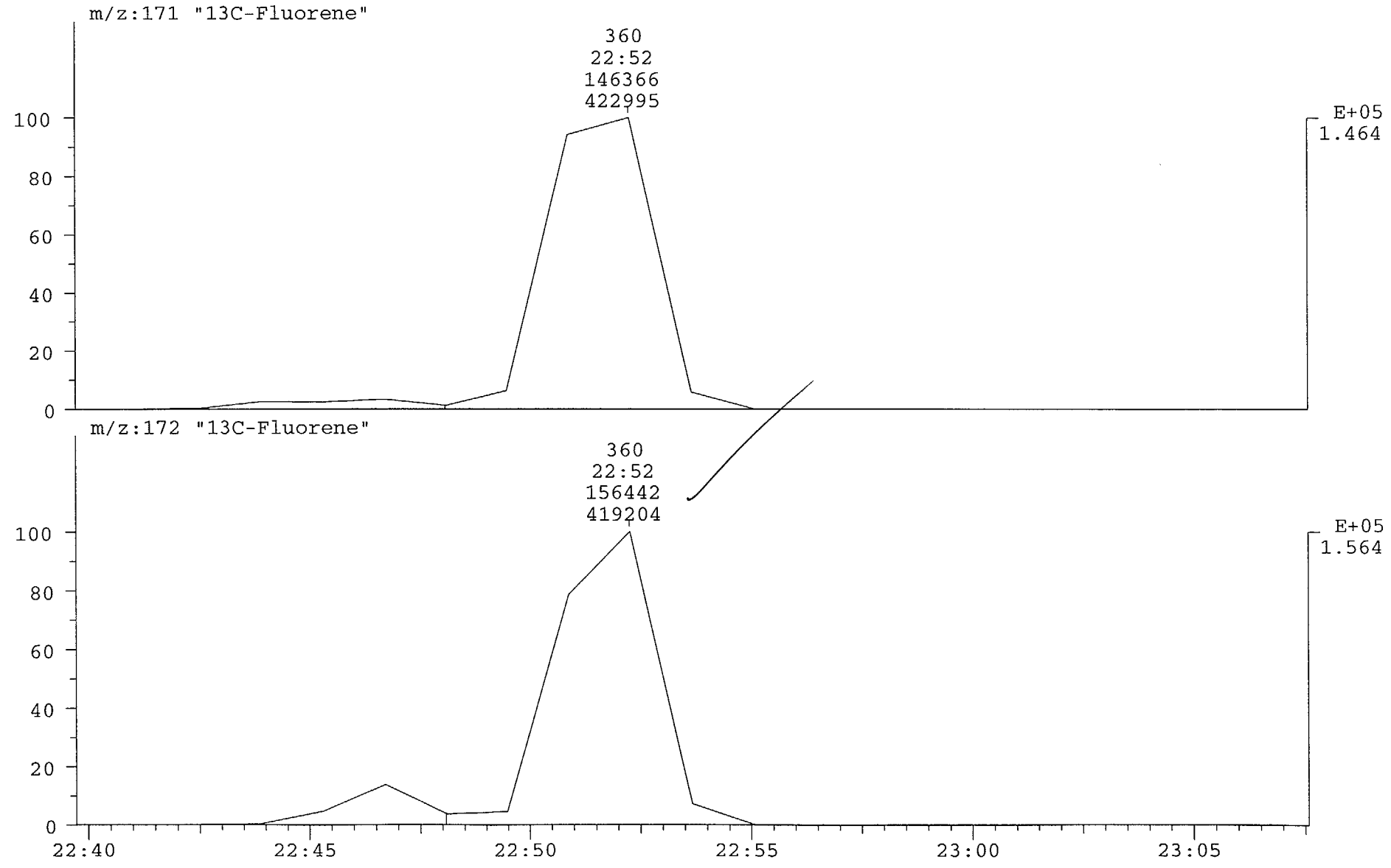


CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

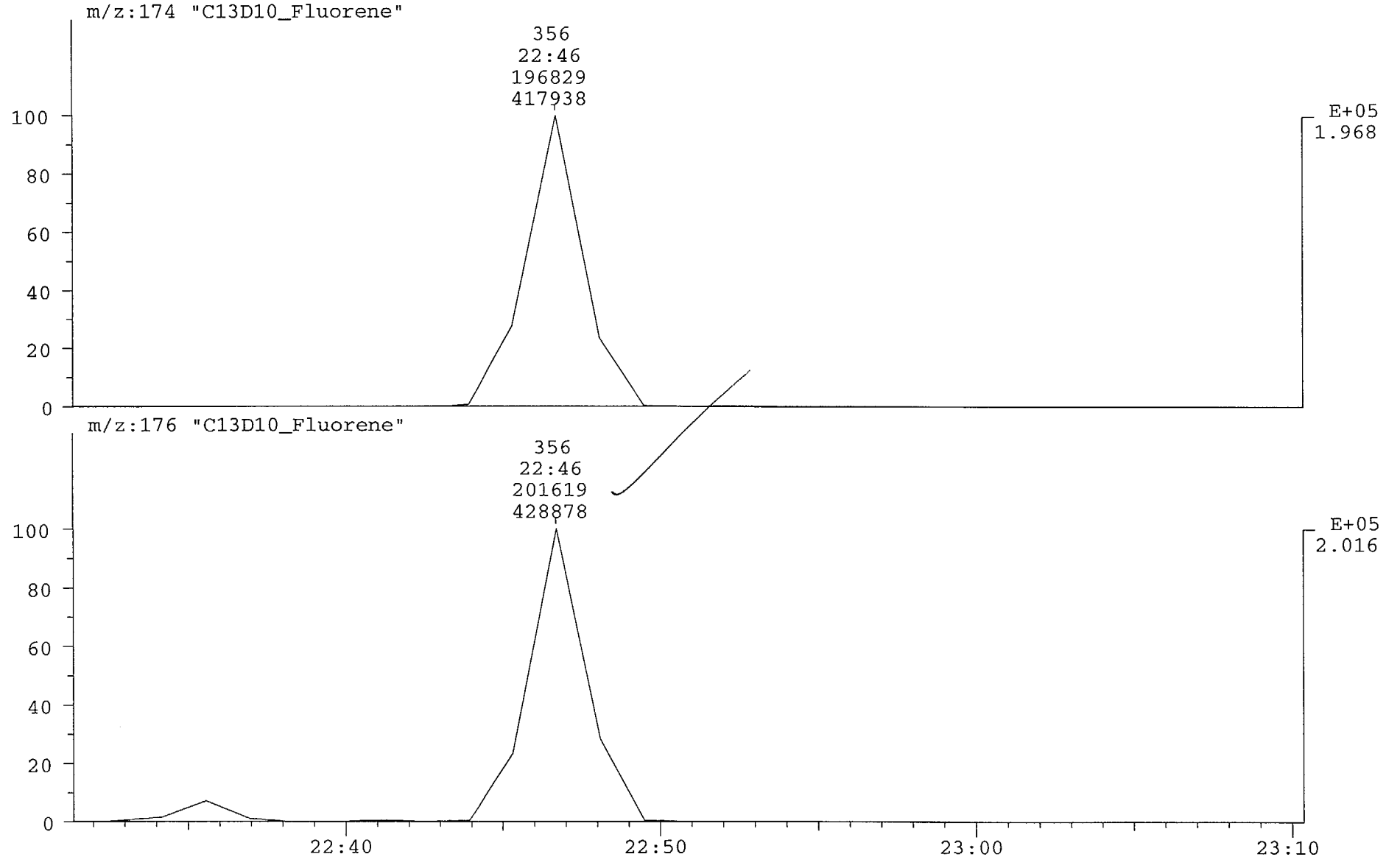


Int 4/26/06
Not a target

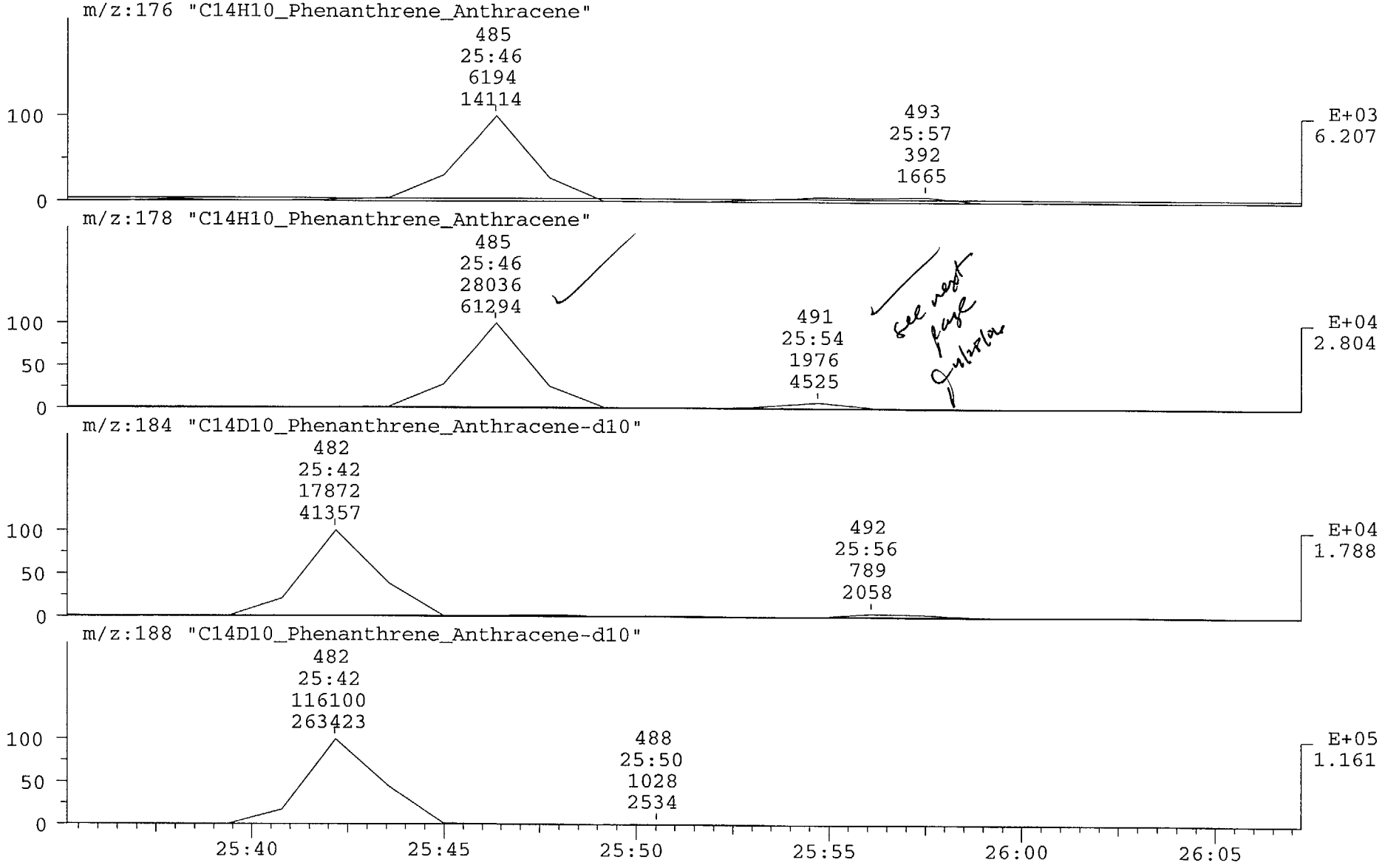
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



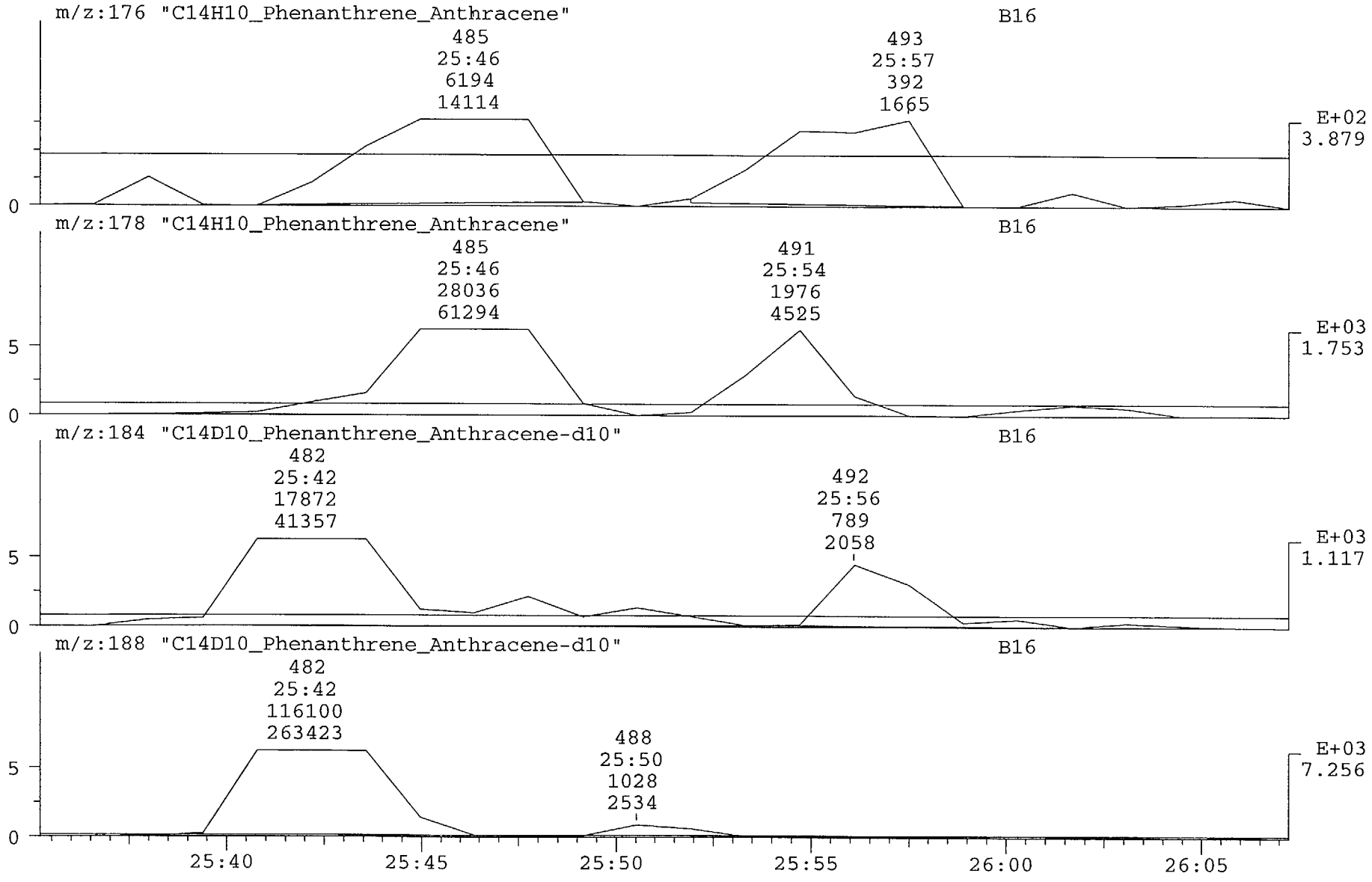
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 345 > 373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



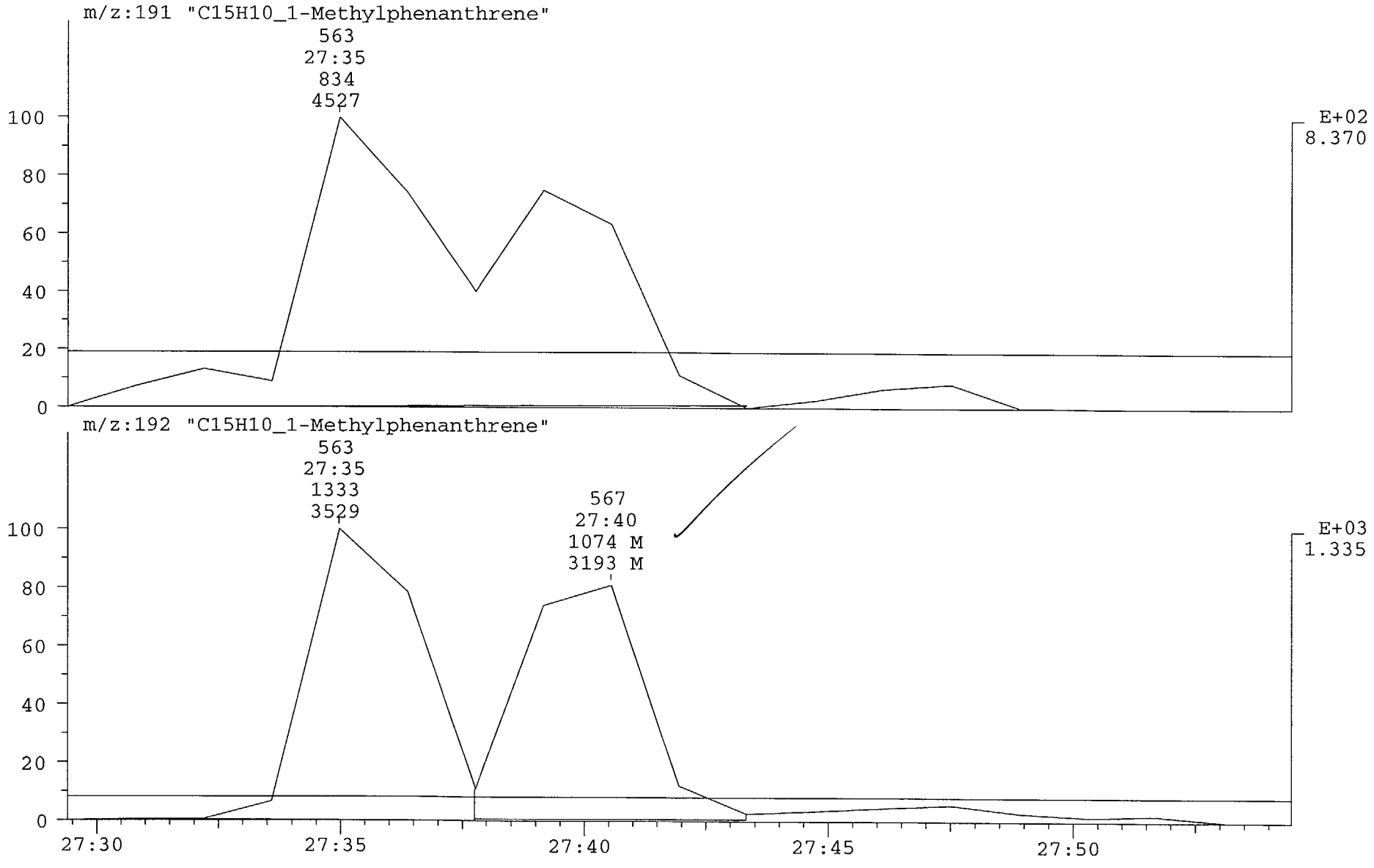
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



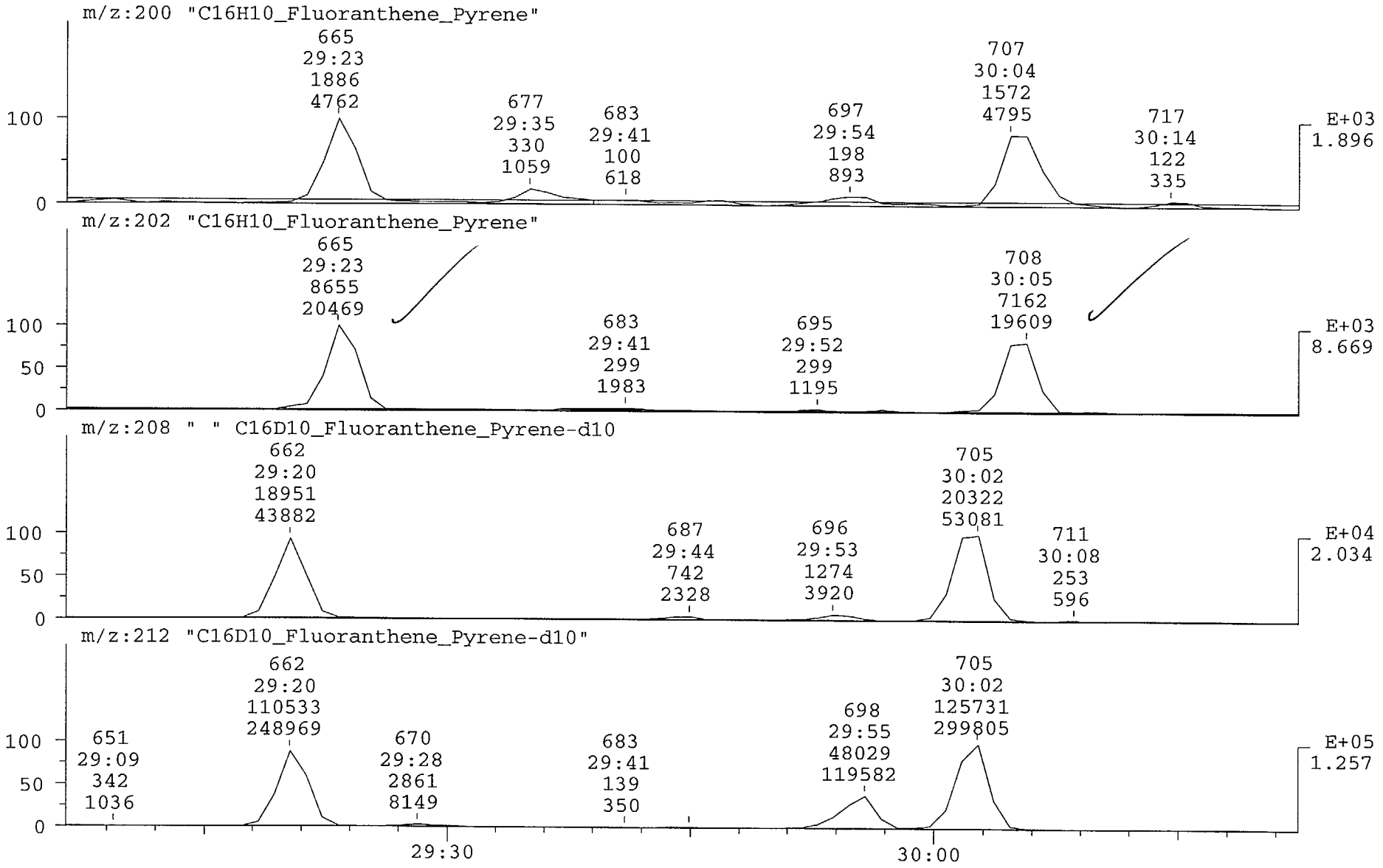
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



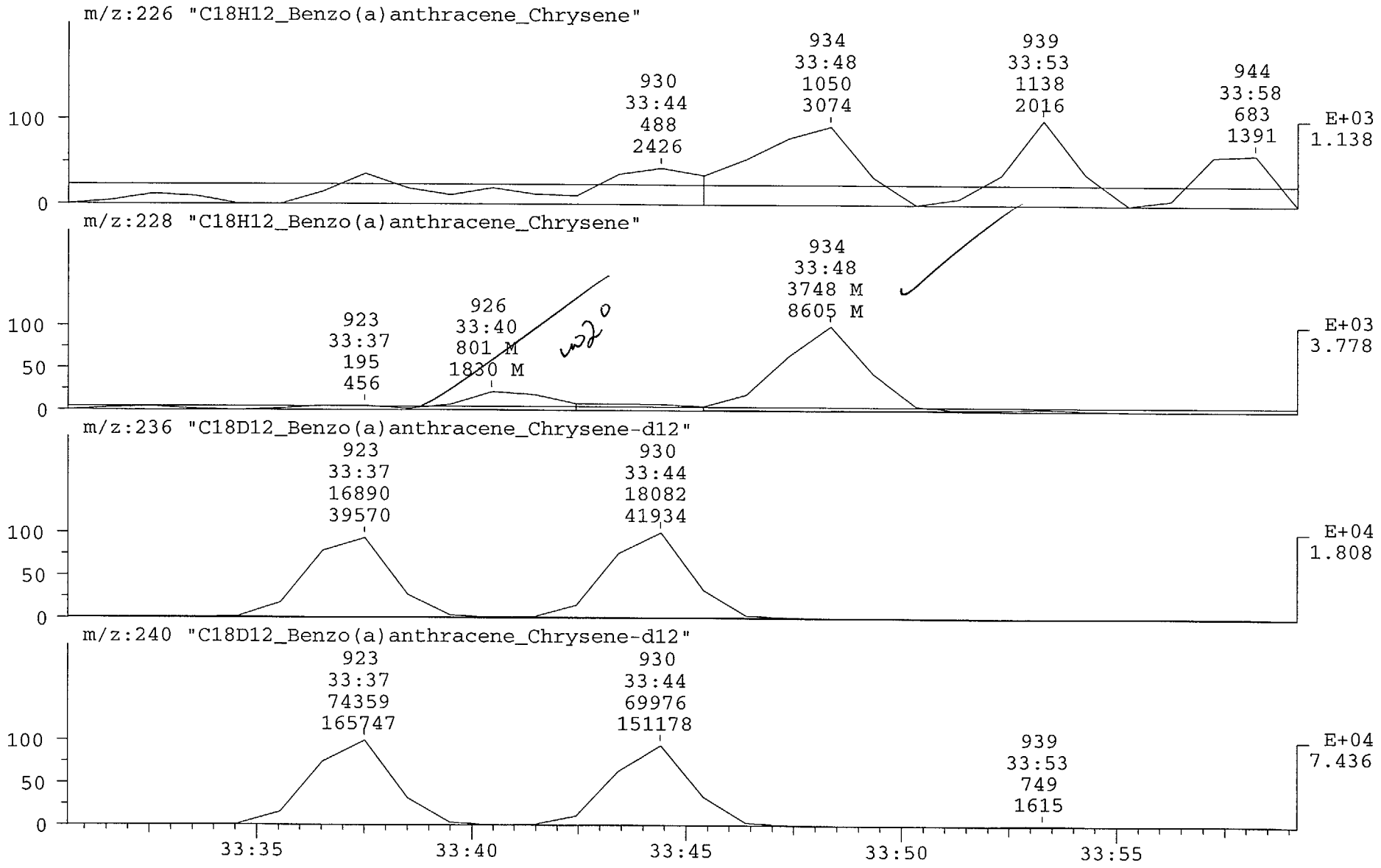
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



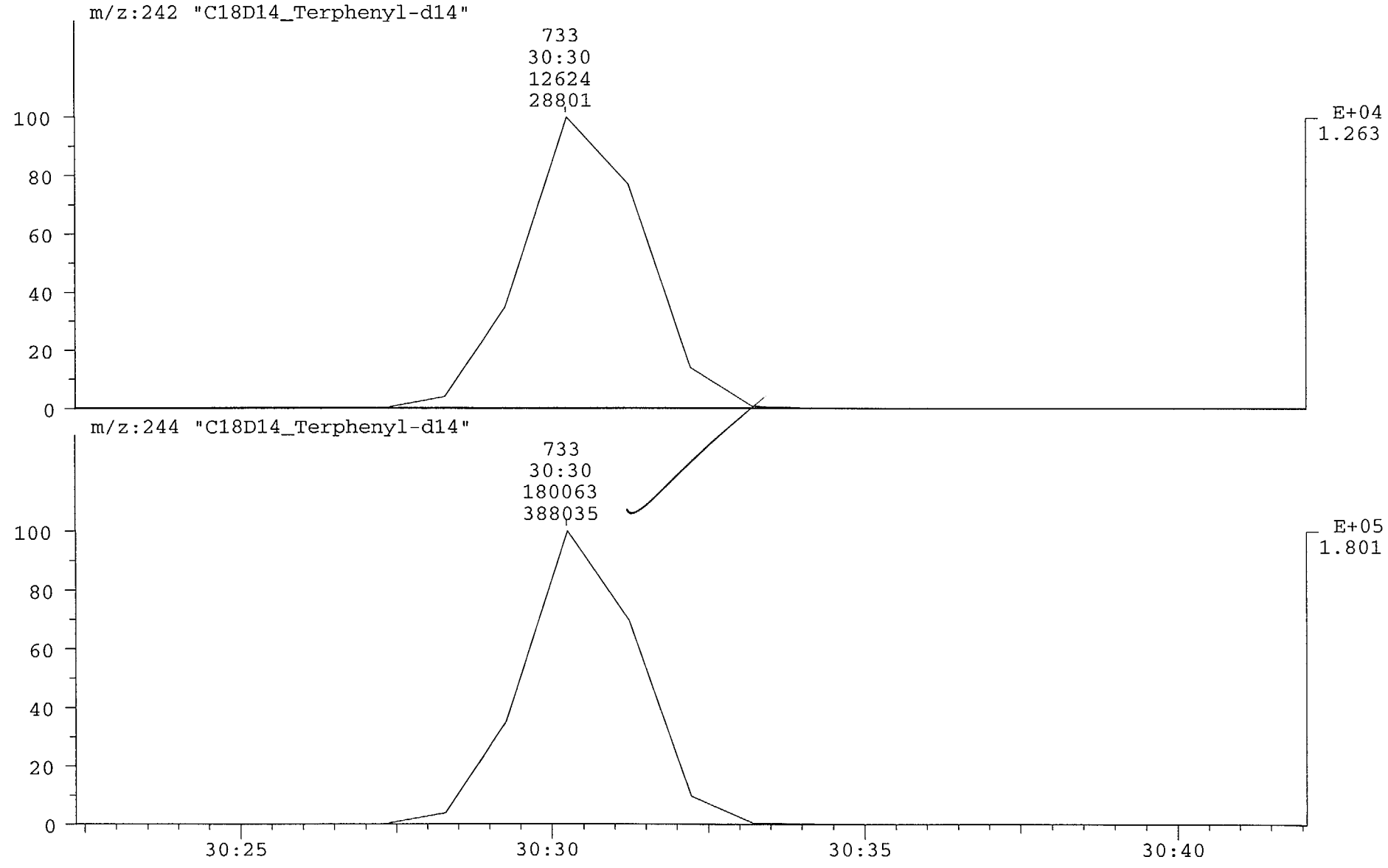
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



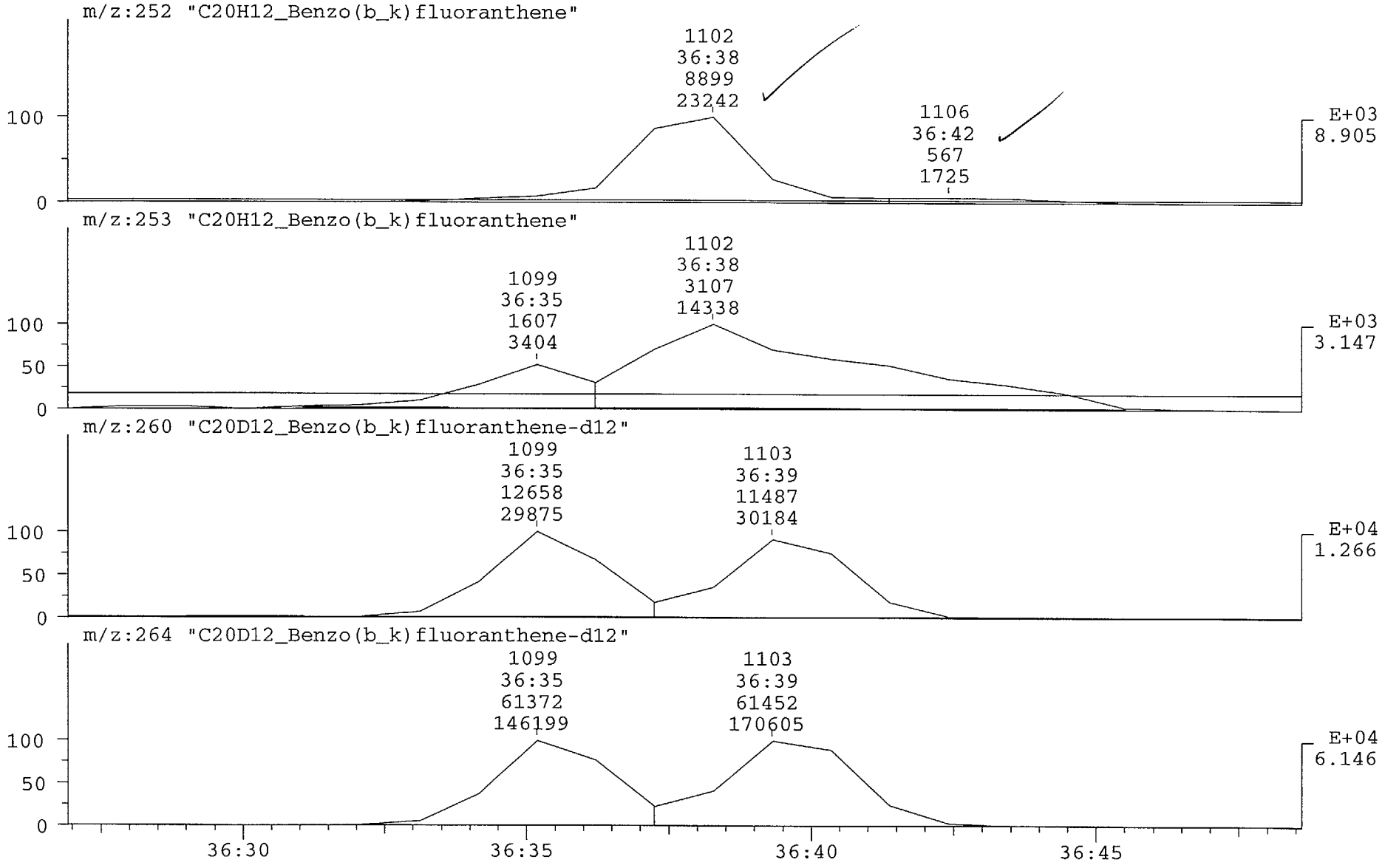
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



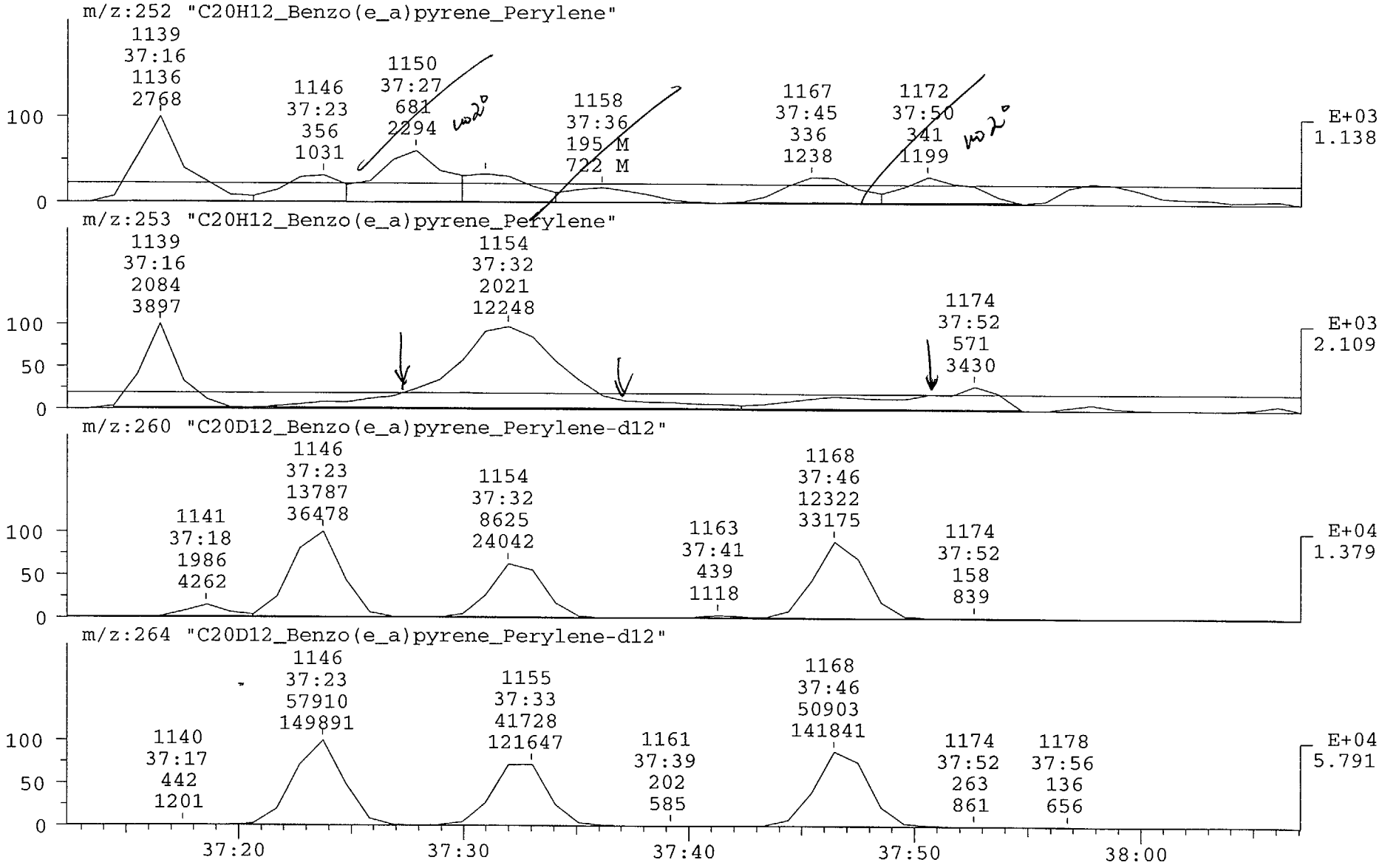
CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 725 > 745 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

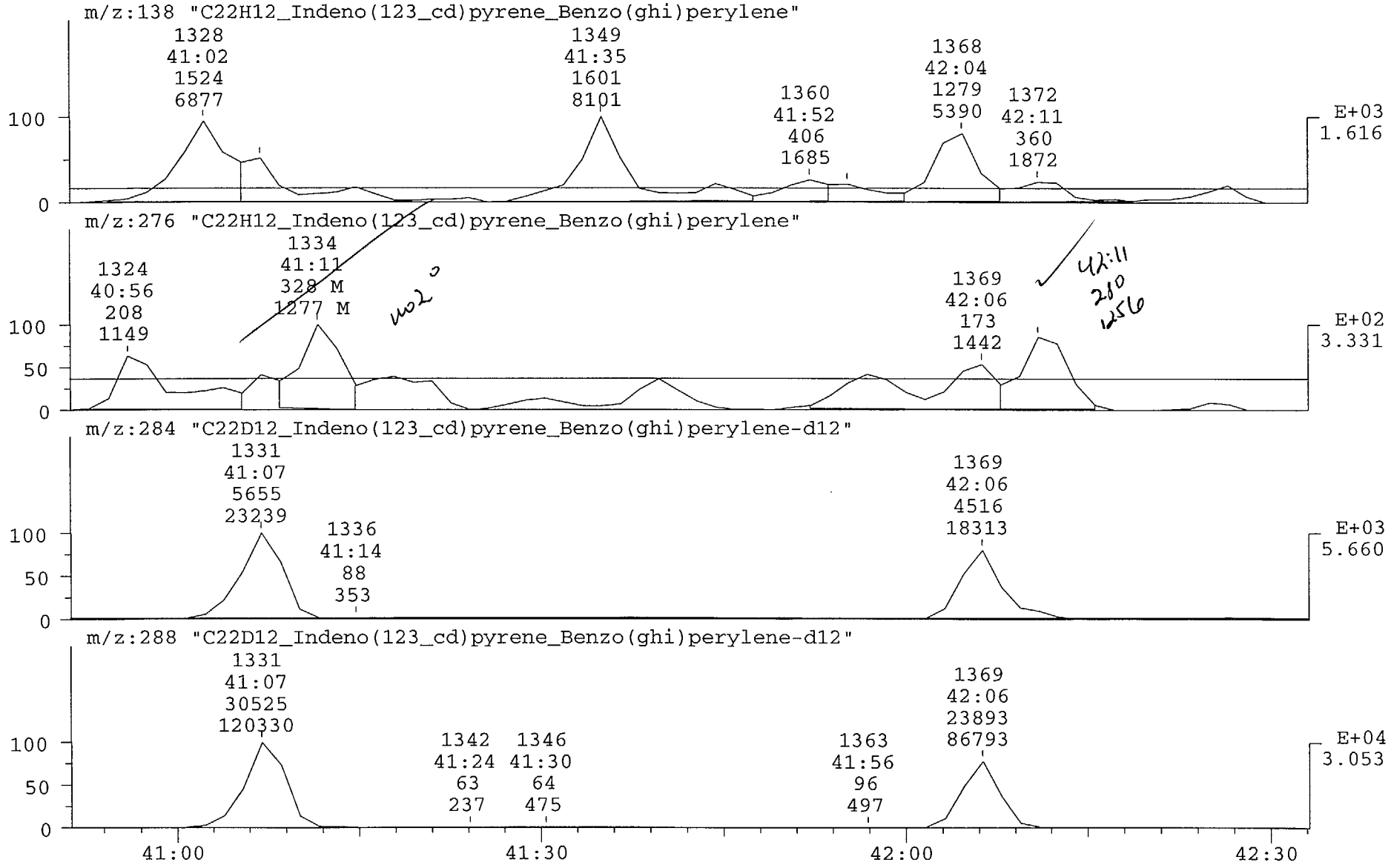


CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

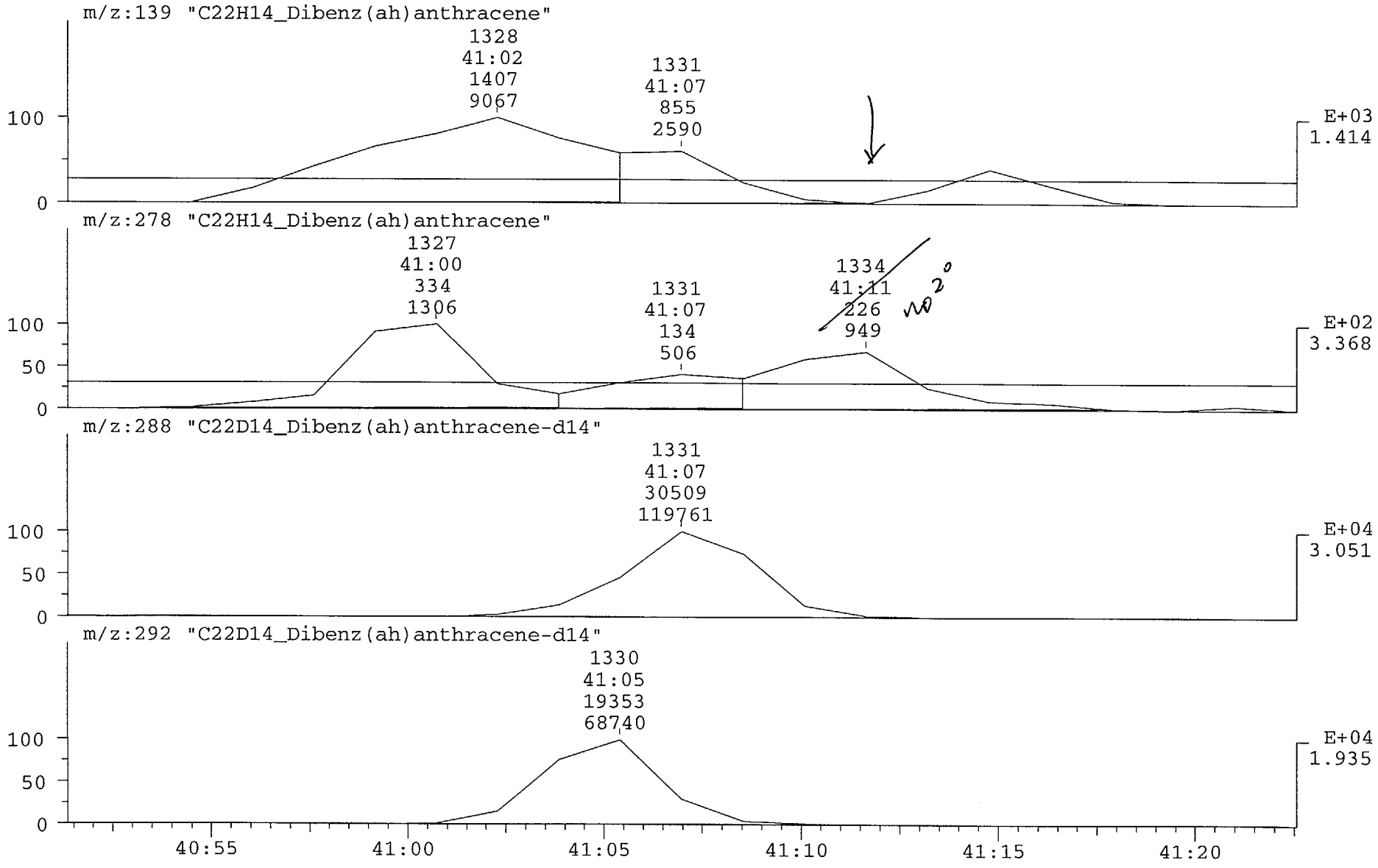


3590

CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2w2 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h2w1aa Meth=YA1 Dil=1 Start : 20:38:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-005 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2H2W2.D
Date Acquired: 27 Apr 2006   8:38 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H2W1AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  19
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Thu Apr 27 21:46:27 2006
d:\cdffiles\YH2H2W2.CDF Translated at Thu Apr 27 21:46:27 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 16:12:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h2w2.dat
NetCDF File (input): /usr/users/hp/data/yh2h2w2.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 16:12:01 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	**Work Order #....:**	H2H2X1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.5**	**J**	**20**	**0.81**	**ng/sampl**
Acenaphthylene	ND		20	0.23	ng/sampl
Anthracene	**3.5**	**J**	**20**	**0.56**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.45	ng/sampl
Benzo(b)fluoranthene	**3.9**	**J**	**20**	**0.93**	**ng/sampl**
Benzo(k)fluoranthene	ND		20	1.2	ng/sampl
Benzo(ghi)perylene	**18**	**B J**	**20**	**0.69**	**ng/sampl**
Benzo(a)pyrene	**2.7**	**B J**	**20**	**1.5**	**ng/sampl**
Benzo(e)pyrene	**5.3**	**B J**	**20**	**1.2**	**ng/sampl**
Chrysene	**3.1**	**B J**	**20**	**0.49**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.45	ng/sampl
Fluoranthene	**18**	**B J**	**20**	**0.21**	**ng/sampl**
Fluorene	**2.8**	**J**	**20**	**0.49**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**5.3**	**B J**	**20**	**0.70**	**ng/sampl**
2-Methylnaphthalene	**13**	**B J**	**20**	**0.59**	**ng/sampl**
Naphthalene	**34**	**B J**	**20**	**0.54**	**ng/sampl**
Perylene	ND		20	1.3	ng/sampl
Phenanthrene	**27**	**B J**	**20**	**0.49**	**ng/sampl**
Pyrene	**15**	**B J**	**20**	**0.21**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	85	15 - 120
2-Methylnaphthalene-d10	91	20 - 120
Acenaphthylene-d8	98	20 - 120
Phenanthrene-d10	105	30 - 120
Fluoranthene-d10	106	30 - 120
Benzo(a)anthracene-d12	109	30 - 120
Chrysene-d12	97	30 - 120
Benzo(b)fluoranthene-d12	106	30 - 120
Benzo(k)fluoranthene-d12	105	30 - 120
Benzo(a)pyrene-d12	104	30 - 120
Perylene-d12	104	30 - 120
Indeno(1,2,3-cd)pyrene-d12	112	30 - 120
Dibenz(ah)anthracene-d14	115	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3034/3035-R2-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 006	**Work Order #....:**	H2H2X1AA	**Matrix....:**	AIR
Date Sampled....:	03/29/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	92	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2X1AA	Prep Batch	6100063	Lot No	H6D030241-006
Data File	/20060418s2/yh2h2x.d	Prep Date	04/10/06	SDG No	
Analysis ID	90217	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	4/19/2006	Matrix	AIR	Date Sampled	03/29/06
Analysis Time	04:26	Initial Wt/Vol	1	Lims Test Code	XXS09YA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:57	86092	24754	1.748	500.0	426.797688	85.36	426.797688		0.494
Naphthalene	16:01	7096	1731	1.211		34.036908		34.036908	BJ	0.542
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:03	1974	801	1.269		13.453005		13.453005	BJ	0.589
2-Methylnaphthalene-d10	17:58	57833	23418	1.104	500.0	454.016874	90.80	454.016874		0.414
1-Methylnaphthalene	18:23	1186	432	1.365		8.486367		8.486367	BJ	0.673
1-Methylnaphthalene-d10	18:17	51202	19060	0.958	500.0	462.978570	92.60	462.978570		0.477
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	737	299	1.533		4.157001		4.157001	J	0.662
2,6-Dimethylnaphthalene	19:56	867	274	1.249		6.510894		6.510894	JB	1.77
2,6-Dimethylnaphthalene-d1	19:47	53291	24339	0.977	500.0	472.818522	94.56	472.818522		0.624
C2 Alkylnaphthalenes				1.249		6.510894		6.510894	J	1.74
Acenaphthylene				1.244				ND		0.235
Acenaphthylene-d8	20:46	87724	38552	1.548	500.0	491.039193	98.21	491.039193		0.361
Acenaphthene-d10	21:16	57695	24621	1.000	500.0	500.000000	100.00	500.000000		0.711
Acenaphthene	21:21	204	87	0.762		1.525281		1.525281	J	0.808
2,3,5-Trimethylnaphthalene				1.127				ND		0.638
C3 Alkylnaphthalenes				1.127				ND		0.627
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene	22:52	470	190	0.915		2.824623		2.824623	J	0.490
Phenanthrene-d10	25:43	90924	41851	0.753	500.0	526.424615	105.28	526.424615		0.259
Phenanthrene	25:47	6051	2688	1.216		27.356475		27.356475	BJ	0.491
Anthracene-d10	25:52	69417	28810	0.655	500.0	462.314812	92.46	462.314812		0.297
Anthracene	25:53	669	184	1.059		3.474152		3.474152	J	0.564
1-Methylphenanthrene				0.870				ND		0.686
Fluoranthene-d10	29:21	88378	39633	0.727	500.0	530.461033	106.09	530.461033		0.369
Fluoranthene	29:24	4192	1884	1.334		17.781526		17.781526	BJ	0.213
Pyrene-d10	30:02	114654	51338	1.000	500.0	500.000000	100.00	500.000000		0.268
Pyrene	30:05	3747	1638	1.369		15.486972		15.486972	BJ	0.207
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:36	65276	26673	0.521	500.0	546.396282	109.28	546.396282		0.701
Benzo(a)anthracene				1.454				ND		0.451
Chrysene-d12	33:44	61632	26207	0.557	500.0	482.775531	96.56	482.775531		0.656
Chrysene	33:48	517	202	1.363		3.077297		3.077297	J	0.490
Benzo(b)Fluoranthene-d12	36:35	62292	26815	0.847	500.0	531.491156	106.30	531.491156		0.620
Benzo(k)Fluoranthene-d12	36:39	73162	28268	1.002	500.0	527.494307	105.50	527.494307		0.524
Benzo(b)fluoranthene	36:39	730	285	1.508		3.886627		3.886627	J	0.928
Benzo(k)fluoranthene				1.136				ND		1.17
Benzo(e)pyrene-d12	37:23	69178	26176	1.000	500.0	500.000000	100.00	500.000000		0.525
Benzo(e)pyrene	37:27	889	322	1.589		5.271195		5.271195	BJ	1.24
Benzo(a)Pyrene-d12	37:32	53085	18965	0.737	500.0	520.665940	104.13	520.665940		0.713
Benzo(a)pyrene	37:36	389	151	1.333		2.749307		2.749307	BJ	1.48
Perylene-d12	37:46	63643	23921	0.887	500.0	518.875802	103.78	518.875802		0.593
Perylene				1.178				ND		1.33
3-Methylcholanthrene								ND		0.000000

VMC 4/25/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2X1AA	**Prep Batch**	6100063	**Lot No**	H6D030241-006
Data File	/20060418s2/yh2h2x.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90217	**Prep Exp Date**	04/19/06	**Date Received**	04/02/06
Analysis Date	4/19/2006	**Matrix**	AIR	**Date Sampled**	03/29/06
Analysis Time	04:26	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09YA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	32136	9373	0.405	500.0	574.085128	114.82	574.085128		0.944
Indeno(1,2,3-cd)pyrene-d12	41:07	60551	15162	0.779	500.0	561.783432	112.36	561.783432		0.306
Indeno(1,2,3-cd)pyrene	41:11	830	201	1.297		5.285134		5.285134	BJ	0.699
Dibenz(a,h)anthracene				2.059				ND		0.453
Benzo(ghi)Perylene-d12	42:06	42970	11707	0.559	500.0	555.316439	111.06	555.316439		0.427
Benzo(ghi)perylene	42:12	2637	672	1.698		18.069154		18.069154	BJ	0.692
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2X1AA	Prep Batch	6100063	Lot No	H6D030241-006
Data File	/20060418s2/yh2h2x.d	Prep Date	04/10/06	SDG No	
Analysis ID	90217	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	04/19/06 04:26	Matrix	AIR	Date Sampled	03/29/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXS09YA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	33		13				
	Naphthalene	16:01	16:01	0	7096		1731			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	43		17				
	Naphthalene-d8	15:57	15:57	0	86092		24754			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	35		14				
	2-Methylnaphthalene	18:03	18:03	0	1974		801			AVB	M
	1-Methylnaphthalene	18:23	18:23	0	1186		432			ABB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	23		9				
	2-Methylnaphthalene-d10	17:58	17:58	0	57833		23418			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	51202		19060			ABB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	48		19				
	Biphenyl	19:27	19:26	1	737		299			MVV	
	Acenaphthene	21:21	21:22	-1	204		87			MVV	
156					156.0000		156.0000				
	Noise	00:00	00:00	0	108		43				
	2,6-Dimethylnaphthalene	19:56	19:55	1	867		274			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	28		11				
	Acenaphthylene-d8	20:46	20:47	-1	87724		38552			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	35		14				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	35		14				
	Acenaphthene-d10	21:16	21:16	0	57695		24621			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	38		15				
	Fluorene	22:52	22:52	0	470		190			MBB	
168					168.0000		168.0000				
	Noise	00:00	00:00	0	30		12				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	53291		24339			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	40		16				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	35		14				
172					172.0000		172.0000				
	Noise	00:00	00:00	0	28		11				
176					176.0000		176.0000				
	Noise	00:00	00:00	0	40		16				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2X1AA	Prep Batch	6100063	Lot No	H6D030241-006
Data File	/20060418s2/yh2h2x.d	Prep Date	04/10/06	SDG No	
Analysis ID	90217	Prep Exp Date	04/19/06	Date Received	04/02/06
Analysis Date	04/19/06 04:26	Matrix	AIR	Date Sampled	03/29/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXS09YA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
178					178.0000		178.0000				
	Noise	00:00	00:00	0	50		20				
	Phenanthrene	25:47	25:48	-1	6051		2688			ABV	M
	Anthracene	25:53	25:55	-2	669		184			MVB	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	20		8				
	Phenanthrene-d10	25:43	25:44	-1	90924		41851			ABV	
	Anthracene-d10	25:52	25:52	0	69417		28810			AVB	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	50		20				
202					202.0000		202.0000				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene	29:24	29:24	0	4192		1884			MBV	M
	Pyrene	30:05	30:05	0	3747		1638			MBB	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	28		11				
	Fluoranthene-d10	29:21	29:21	0	88378		39633			ABV	
	Pyrene-d10	30:02	30:02	0	114654		51338			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	35		14				
	Chrysene	33:48	33:48	0	517		202			MBB	
240					240.0000		240.0000				
	Noise	00:00	00:00	0	38		15				
	Benzo(a)Anthracene-d12	33:36	33:36	0	65276		26673			ABV	
	Chrysene-d12	33:44	33:44	0	61632		26207			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	13		5				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	75		30				
	Benzo(b)fluoranthene	36:39	36:39	0	730		285			MBB	
	Benzo(e)pyrene	37:27	37:27	0	889		322			MBB	M
	Benzo(a)pyrene	37:36	37:36	0	389		151			MVV	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	28		11				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	62292		26815			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	73162		28268			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	69178		26176			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	53085		18965			AVV	
	Perylene-d12	37:46	37:46	0	63643		23921			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	93		37				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	28		11				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H2X1AA	**Prep Batch**	6100063	**Lot No**	H6D030241-006
Data File	/20060418s2/yh2h2x.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90217	**Prep Exp Date**	04/19/06	**Date Received**	04/02/06
Analysis Date	04/19/06 04:26	**Matrix**	AIR	**Date Sampled**	03/29/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

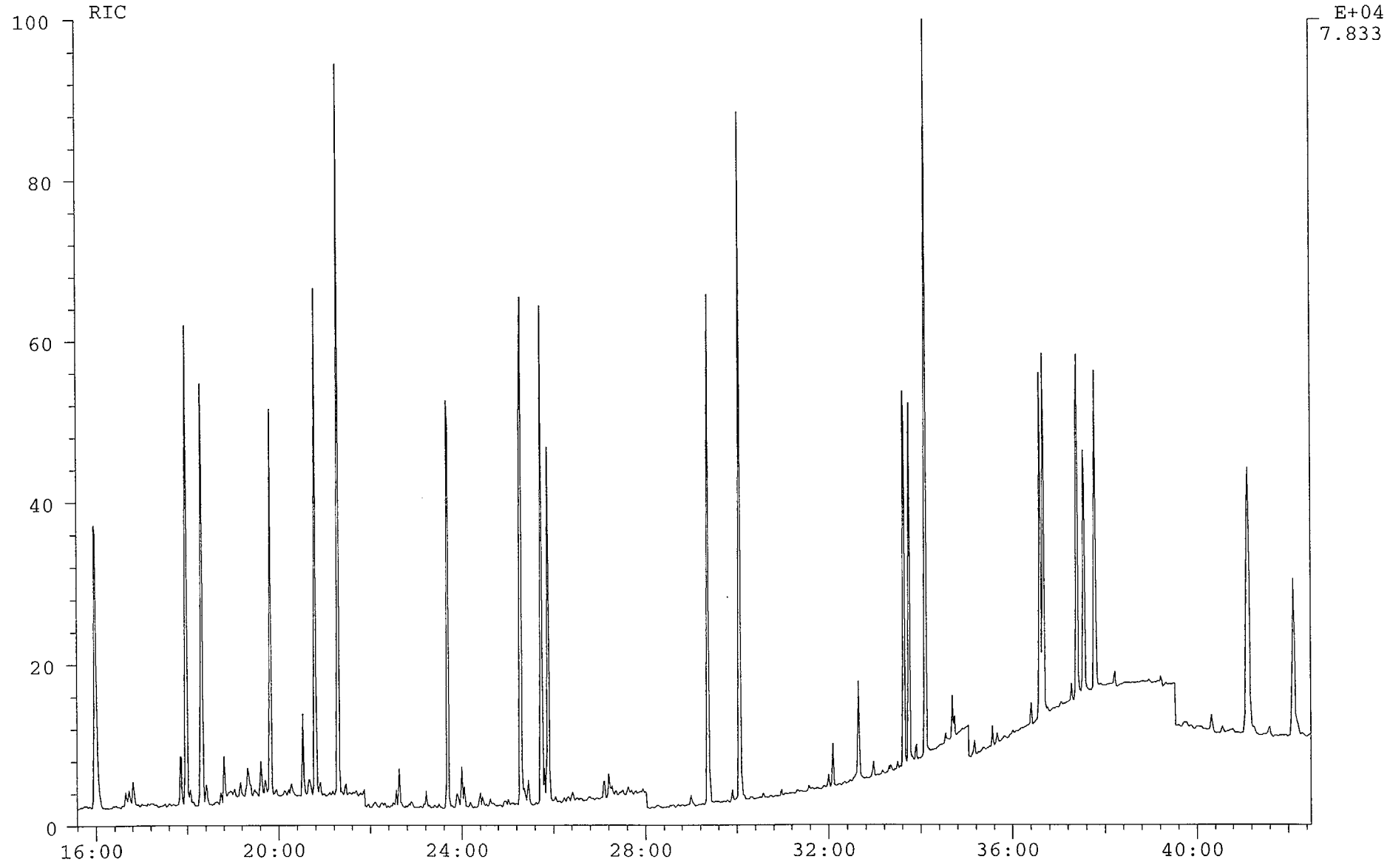
View Small Peaks? False **View deleted peaks?** False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
276					276.0000		276.0000				
	Indeno(1,2,3-cd)pyrene	41:11	41:12	-1	830 ✓		201			AVB	M
	Benzo(ghi)perylene	42:12	42:13	-1	2637 ✓		672			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	18		7				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	60551 ✓		15162			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	42970 ✓		11707			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	32136 ✓		9373			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	15		6				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	13		5				

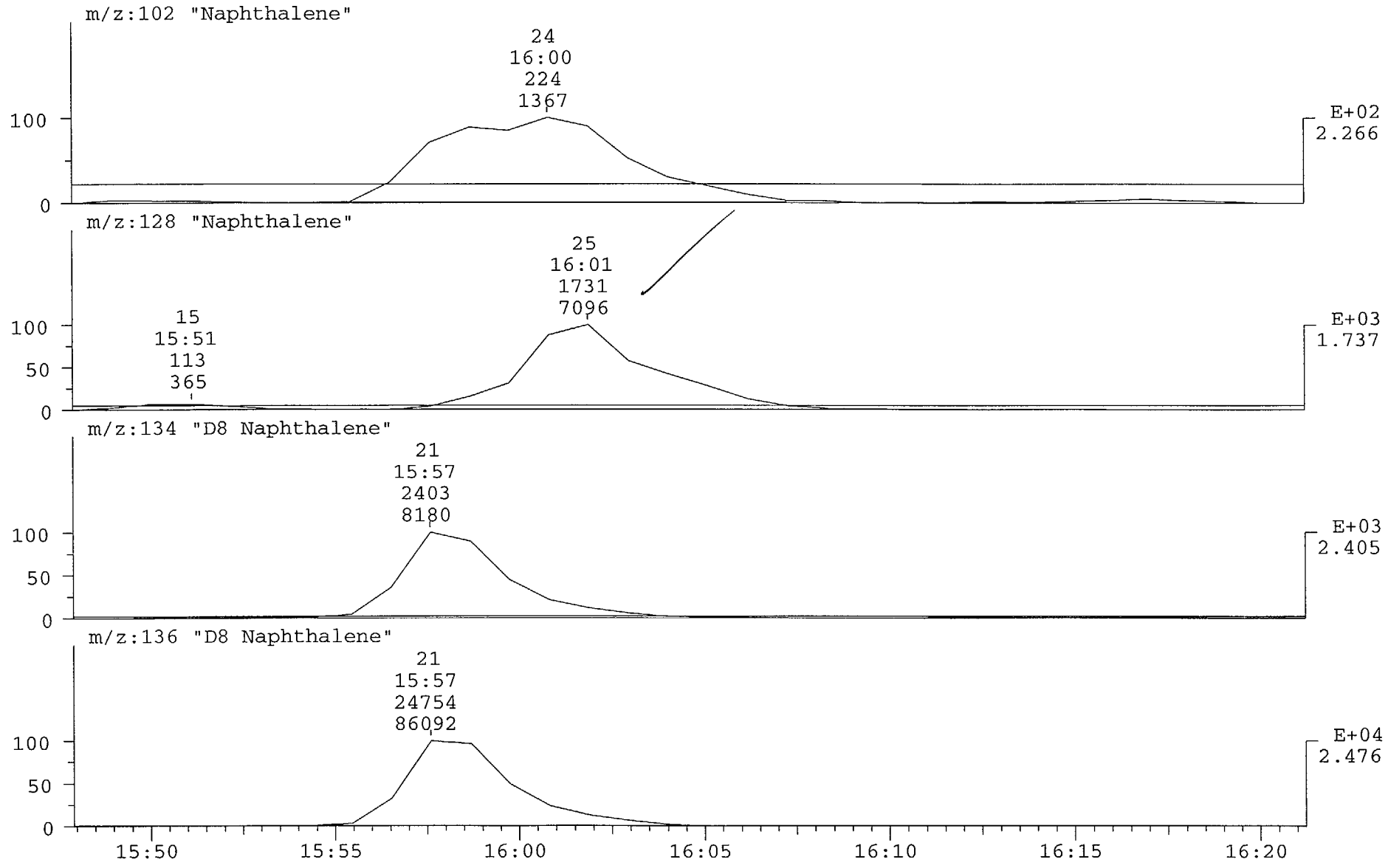
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: yh2h2x 19-APR-06 Elapse: 42:06 1369
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 1365 > 1373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area

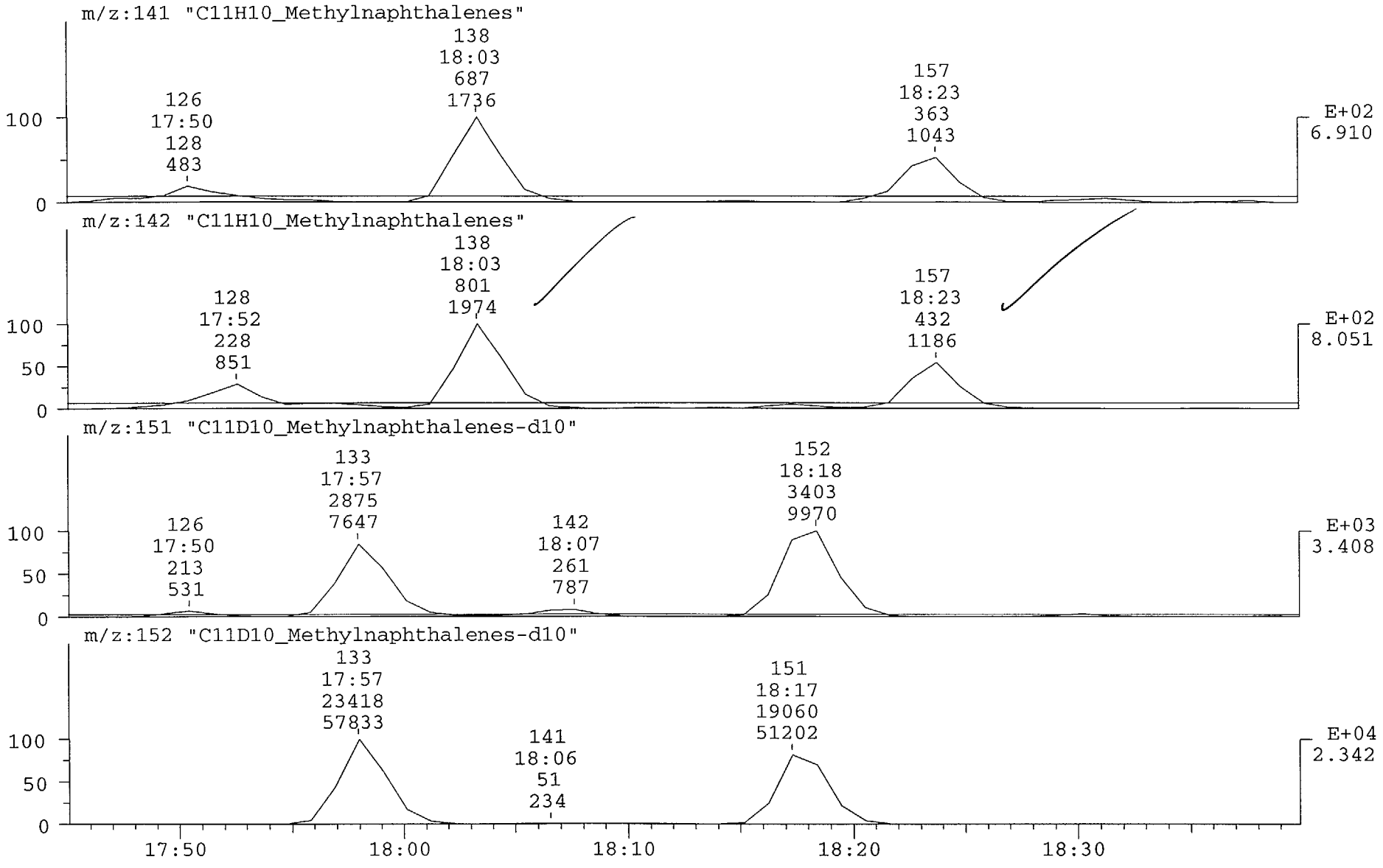
Inp/Calc: J 4/25/06
QC/Rev JMC 4/25/06



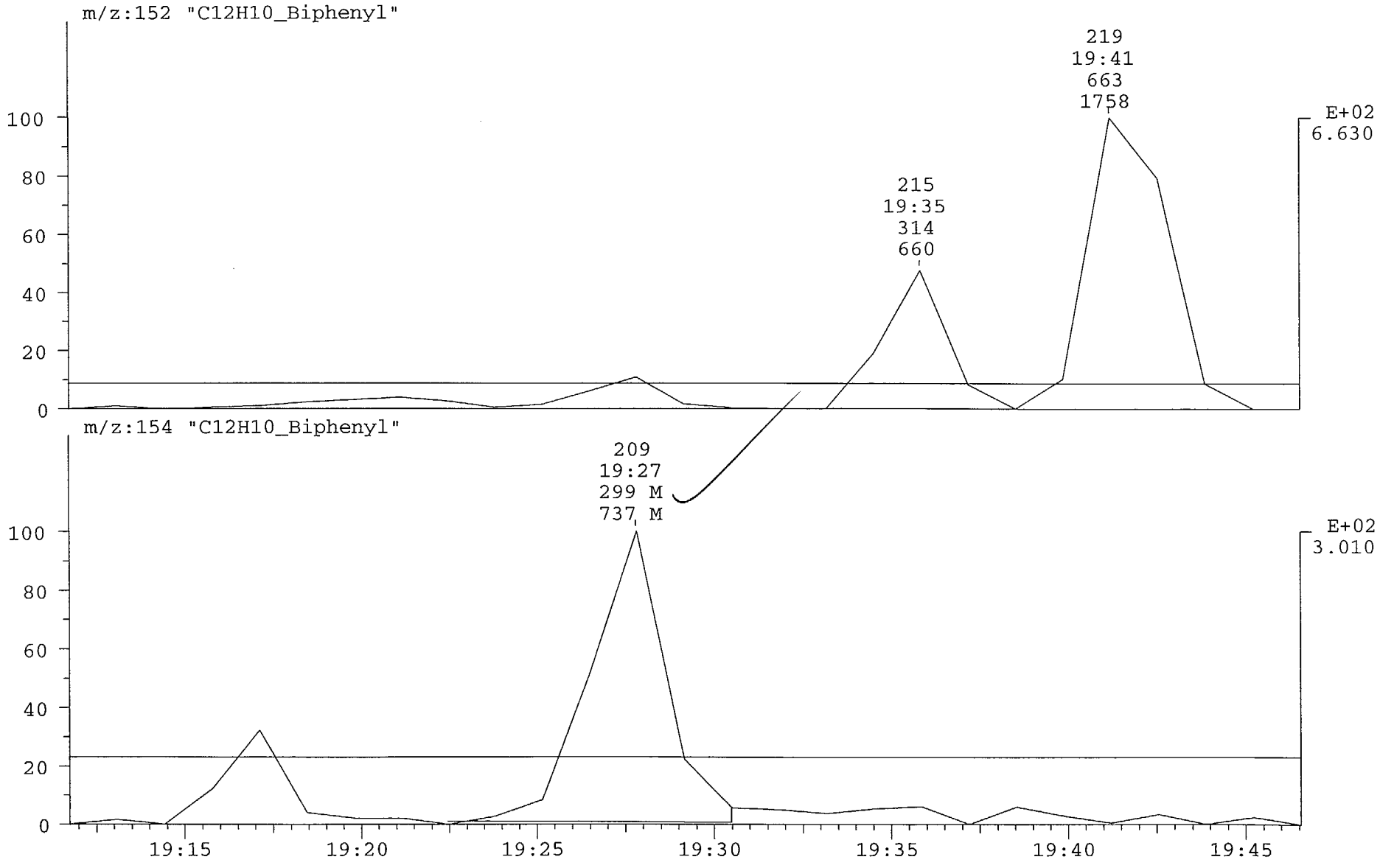
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



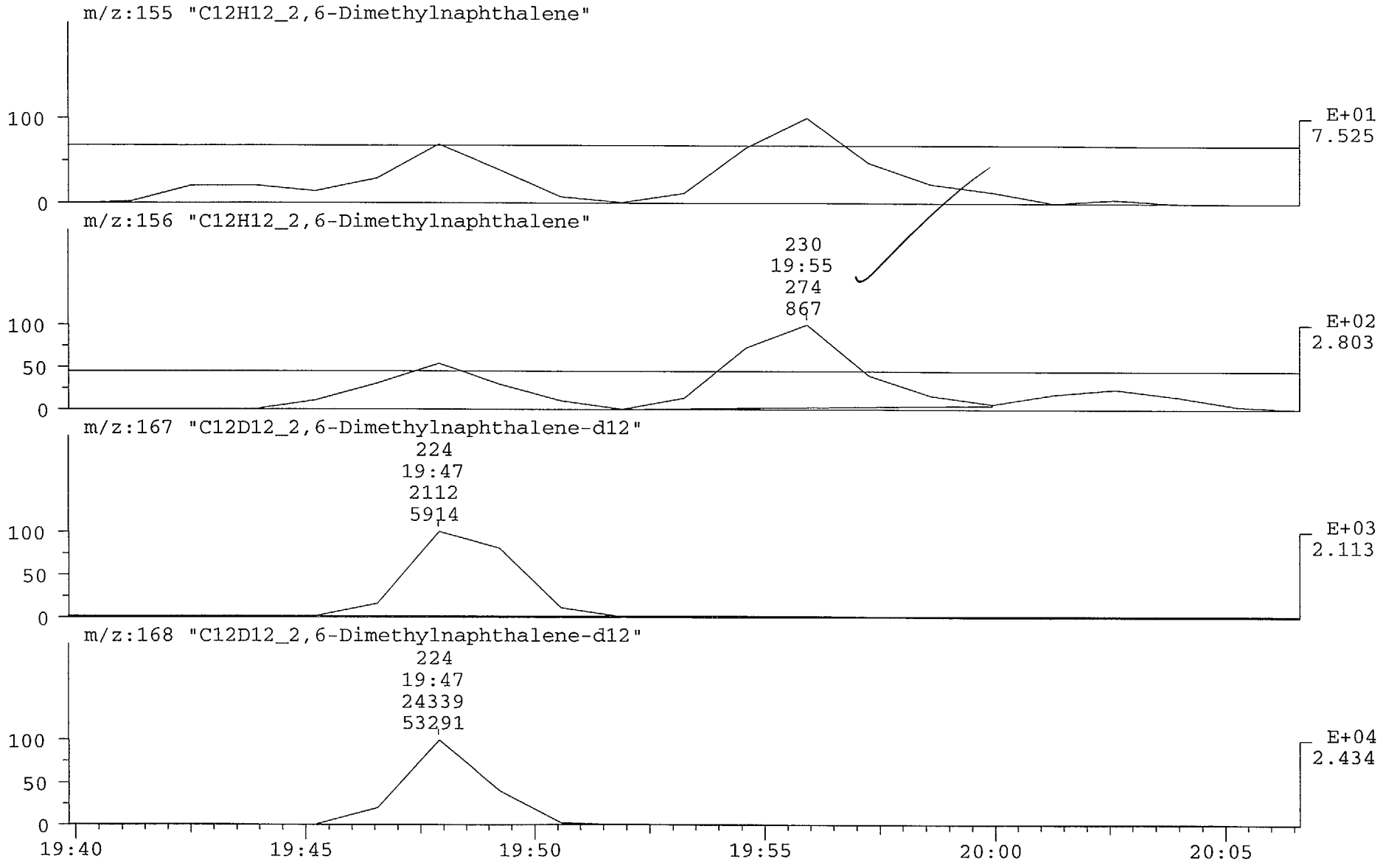
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



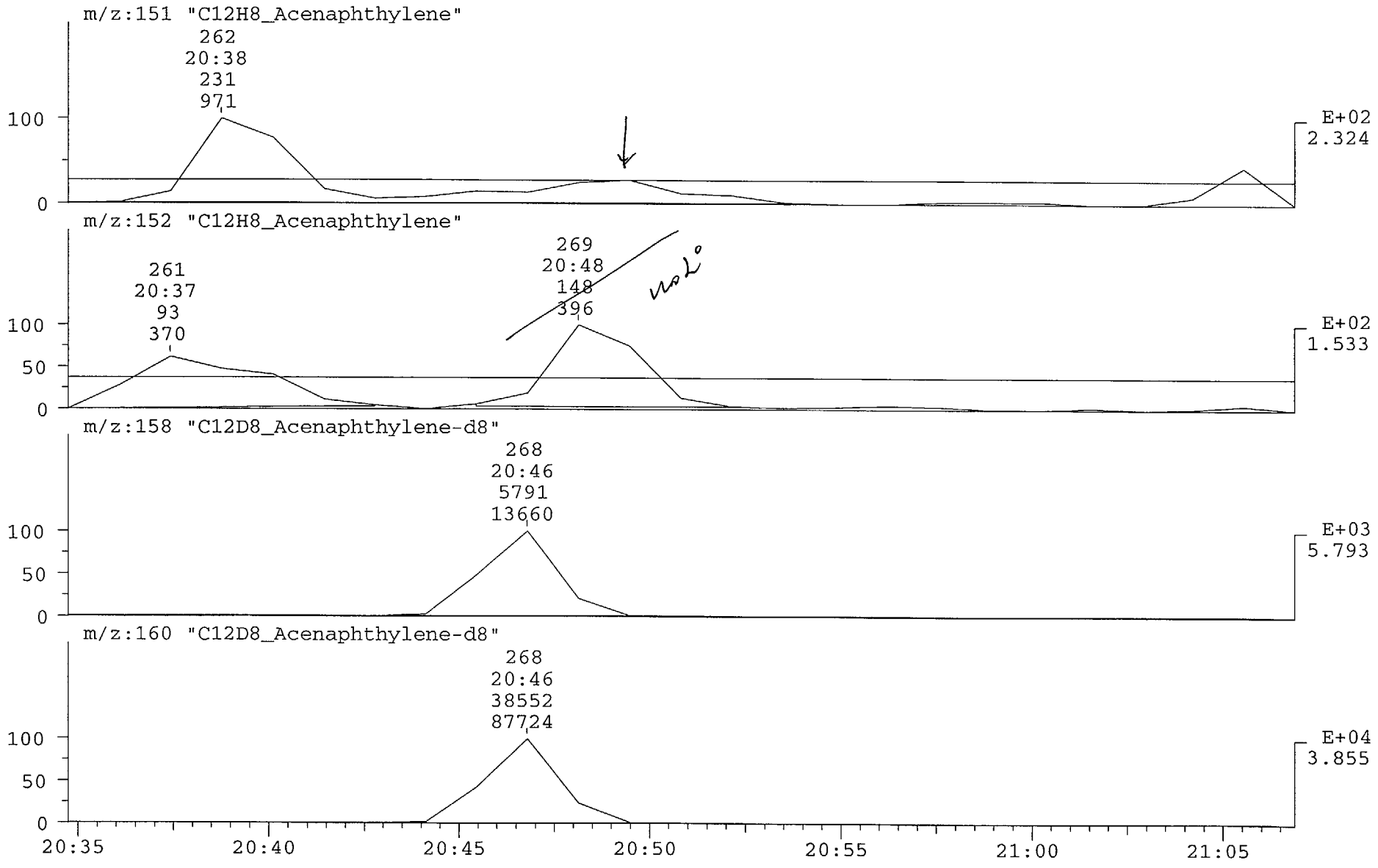
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



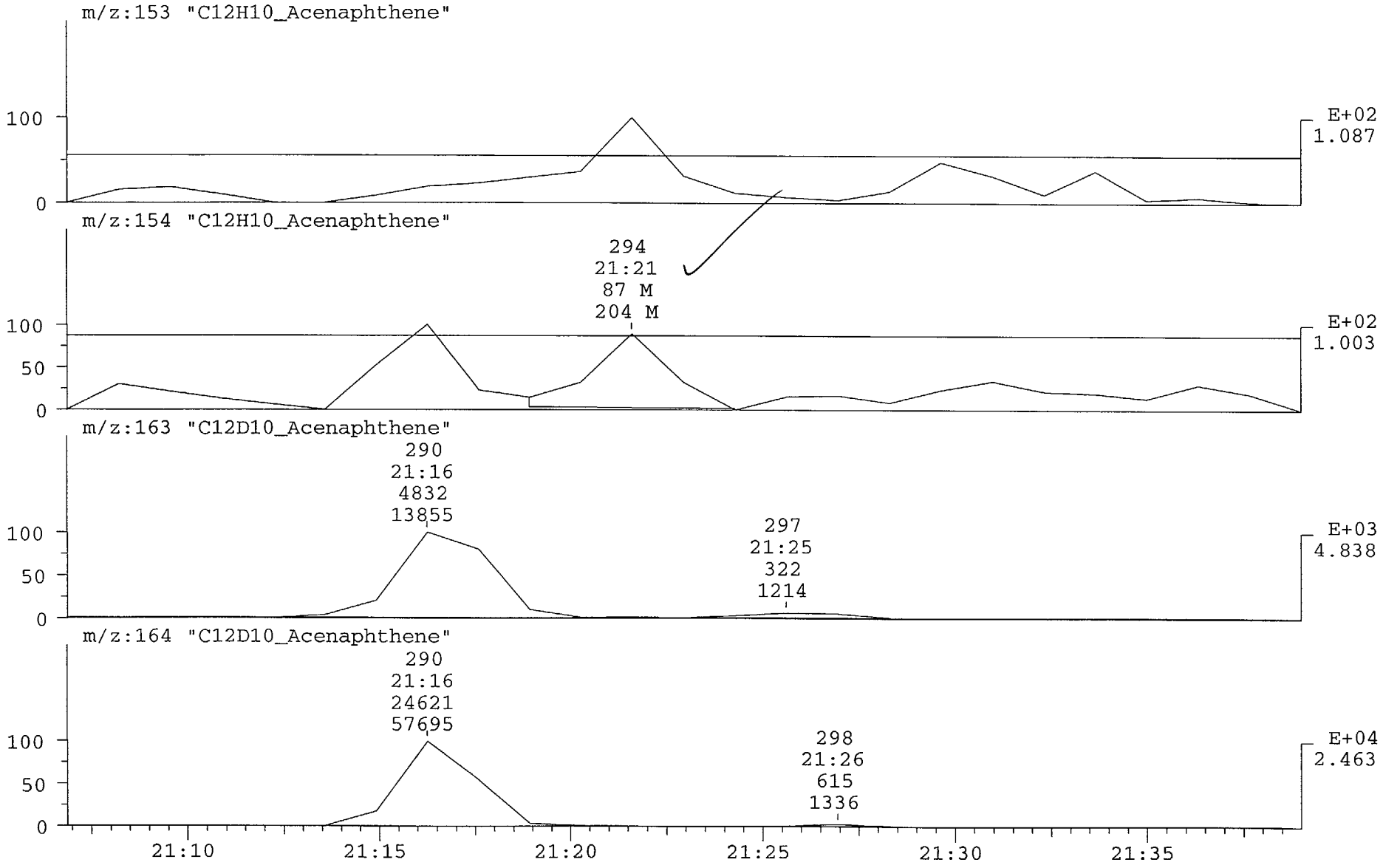
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



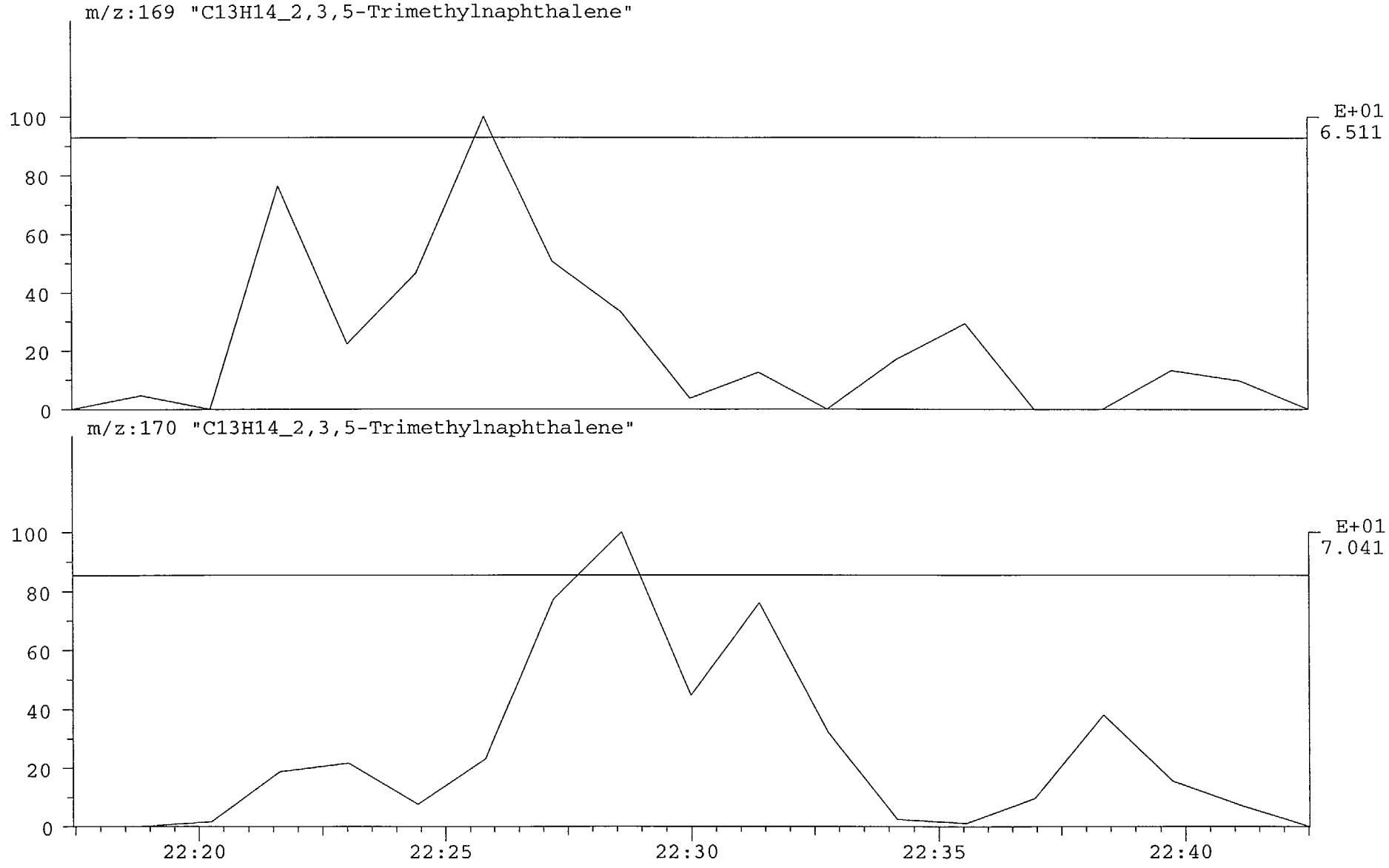
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



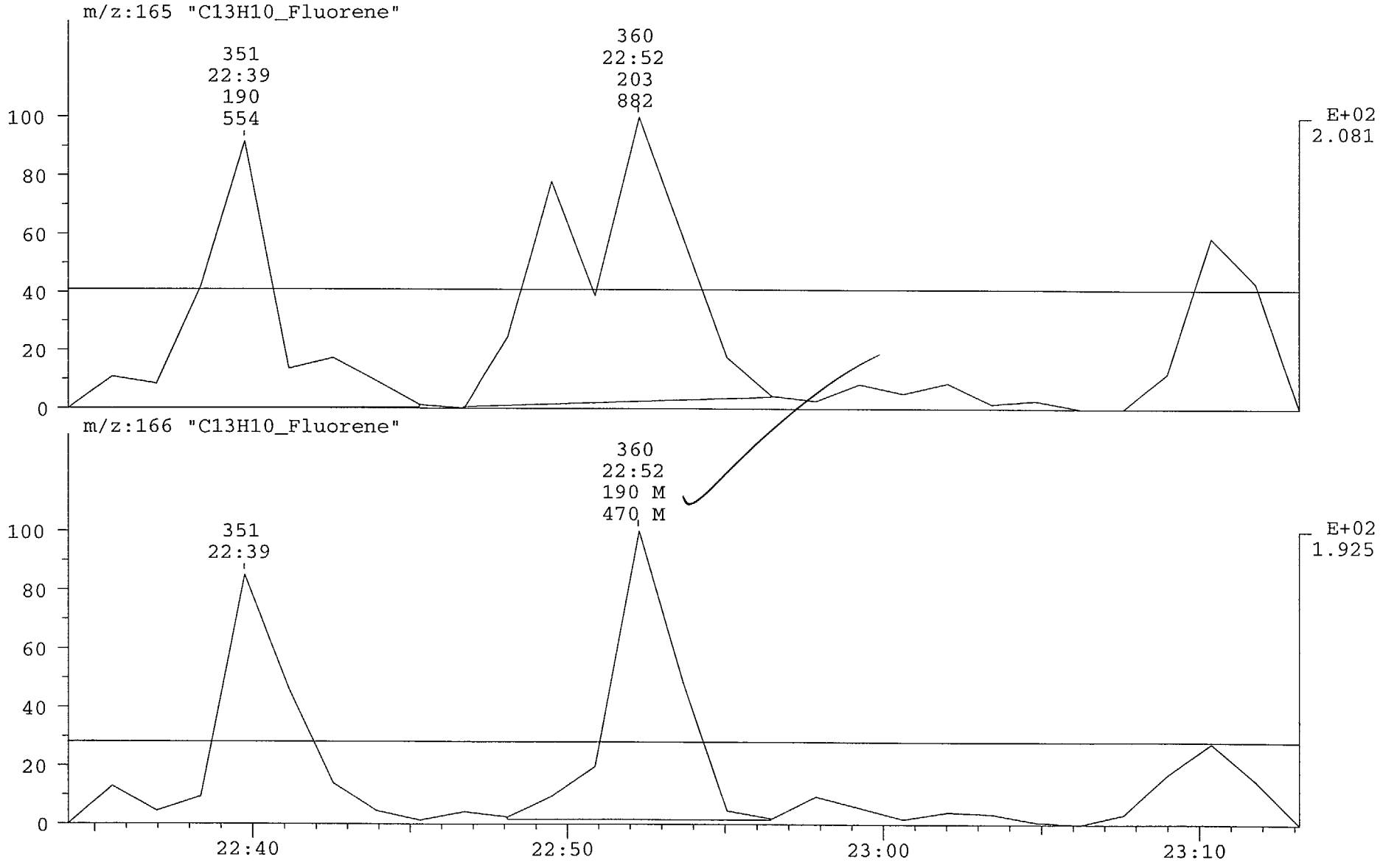
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



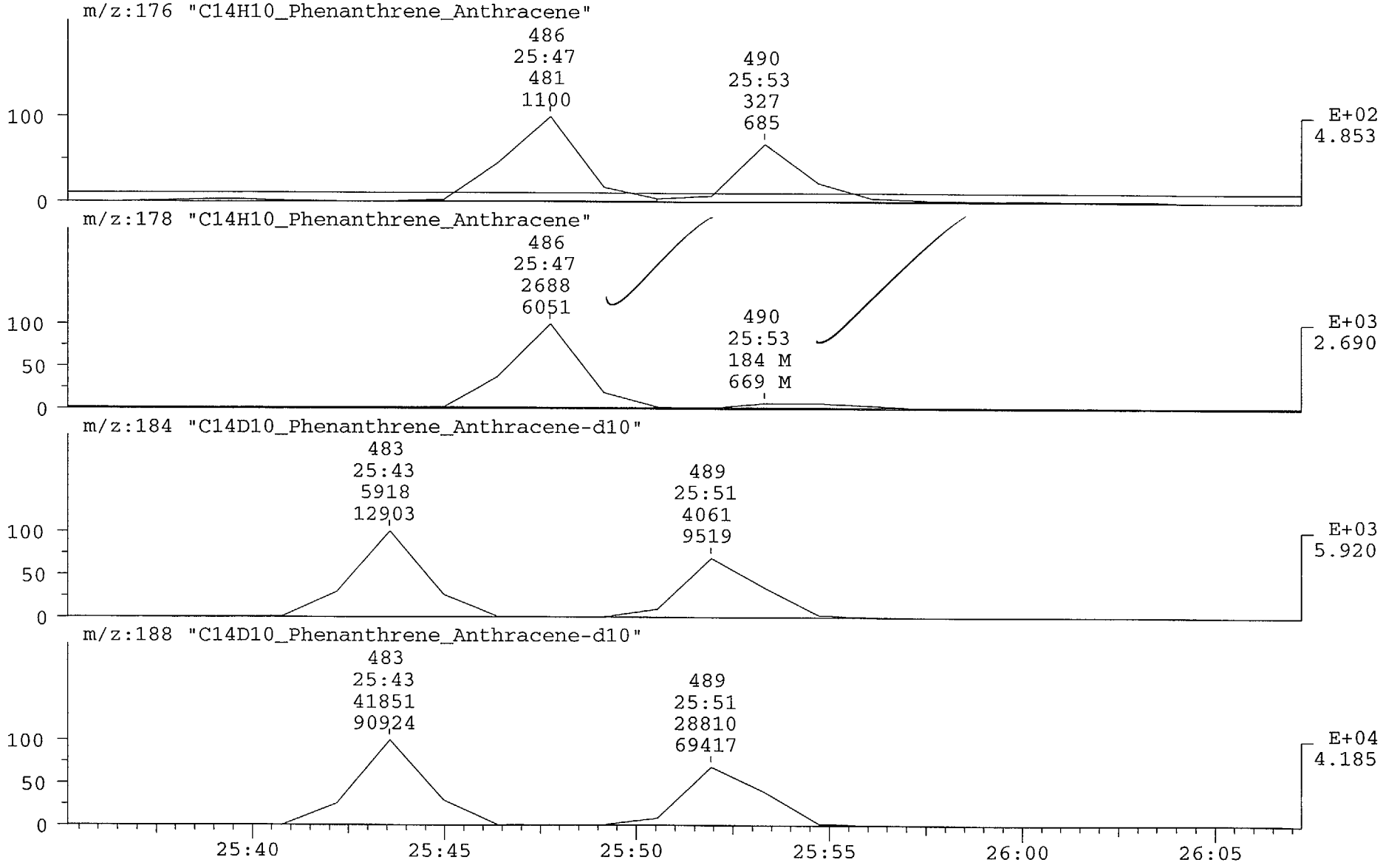
```
CHRO:  yh2h2x                                19-APR-06   Elapse:   40:59      1326
Samp:  WO=h2h2x1aa Meth=YA1 Dil=1                        Start :   04:26:00   1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                  Study :   6100063
Oper:  JMN           Client:  H6D030241-006              Inlet :
Peak:  100.00  ppm     Label wndw:   335 > 353           Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



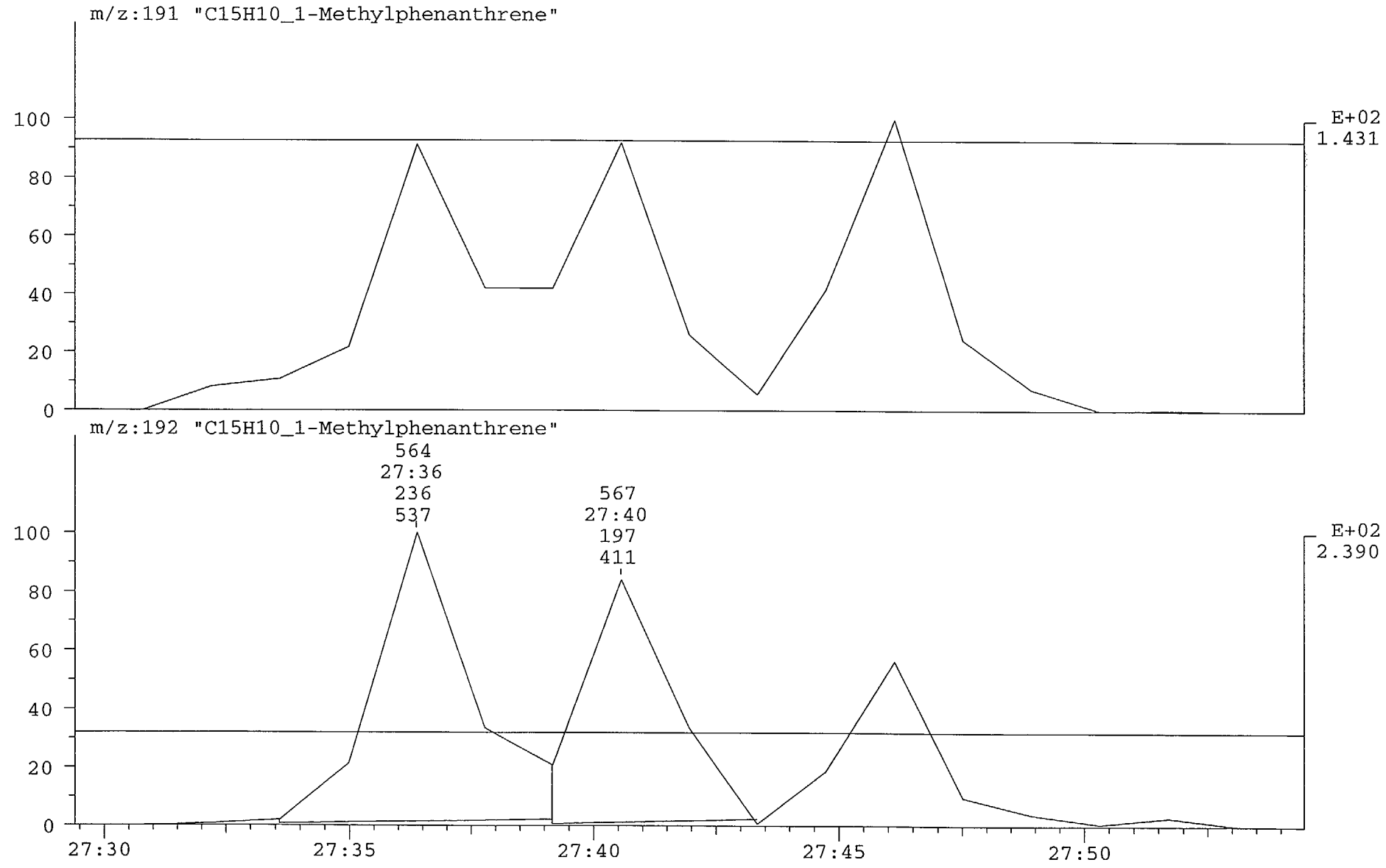
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



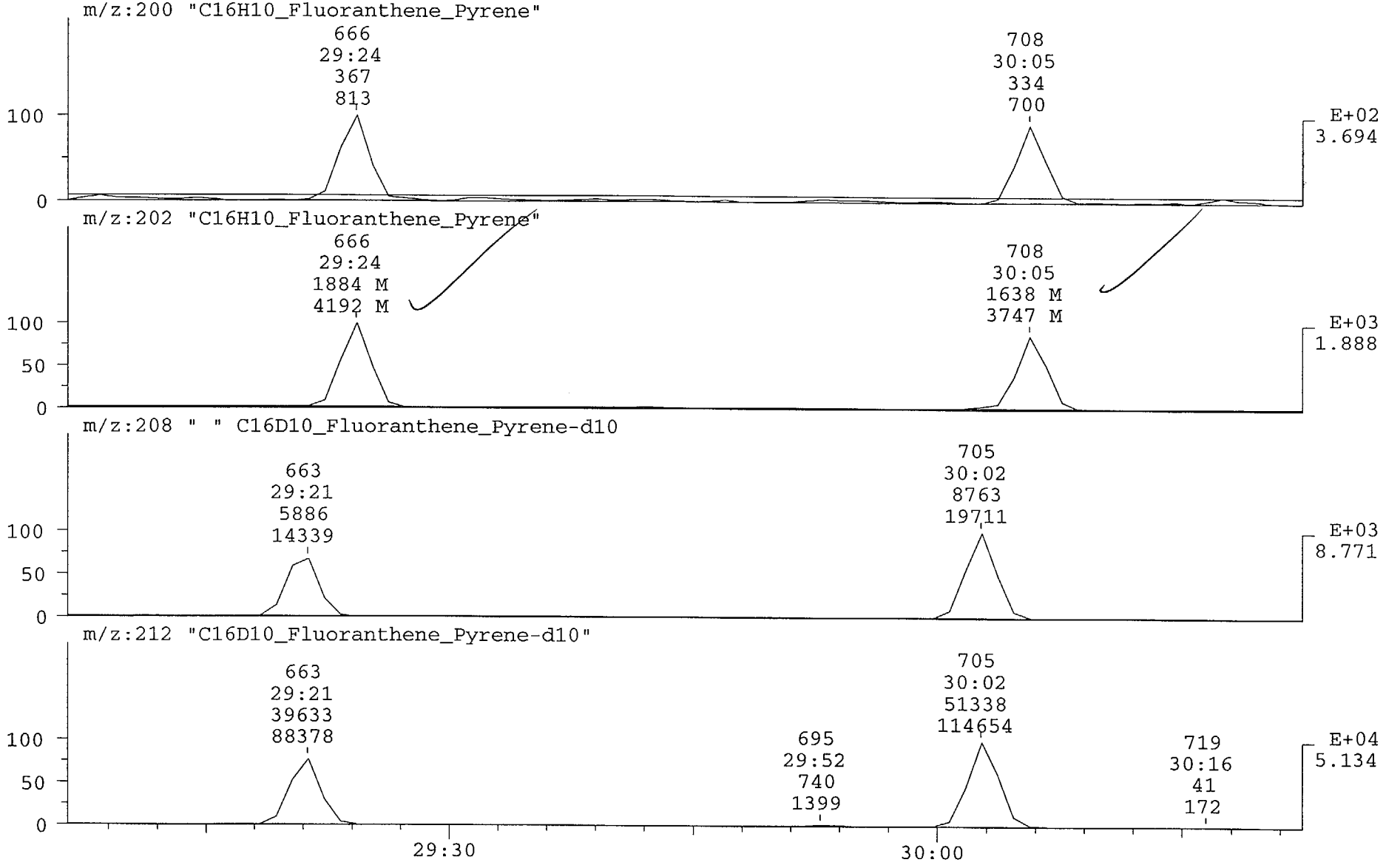
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



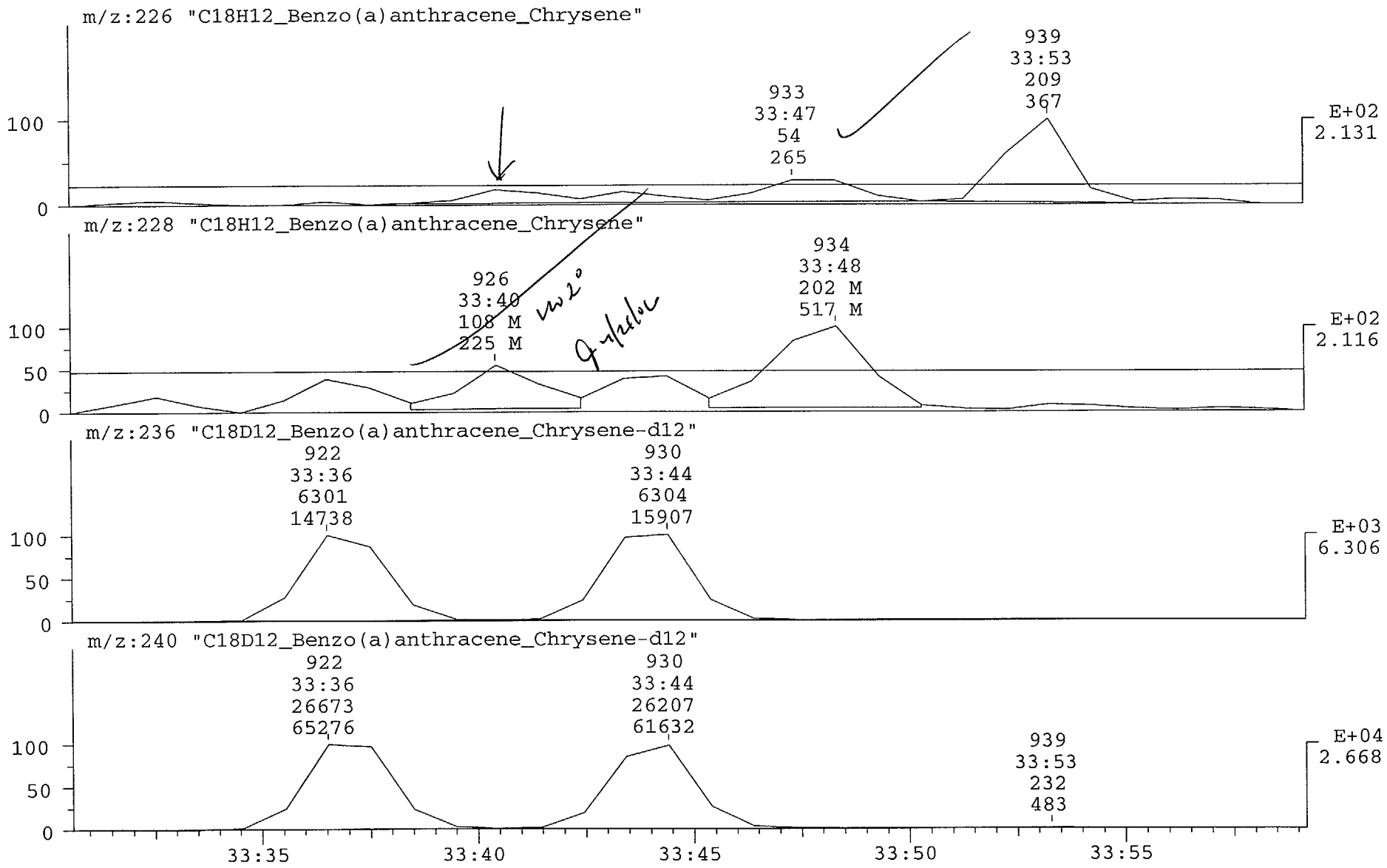
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



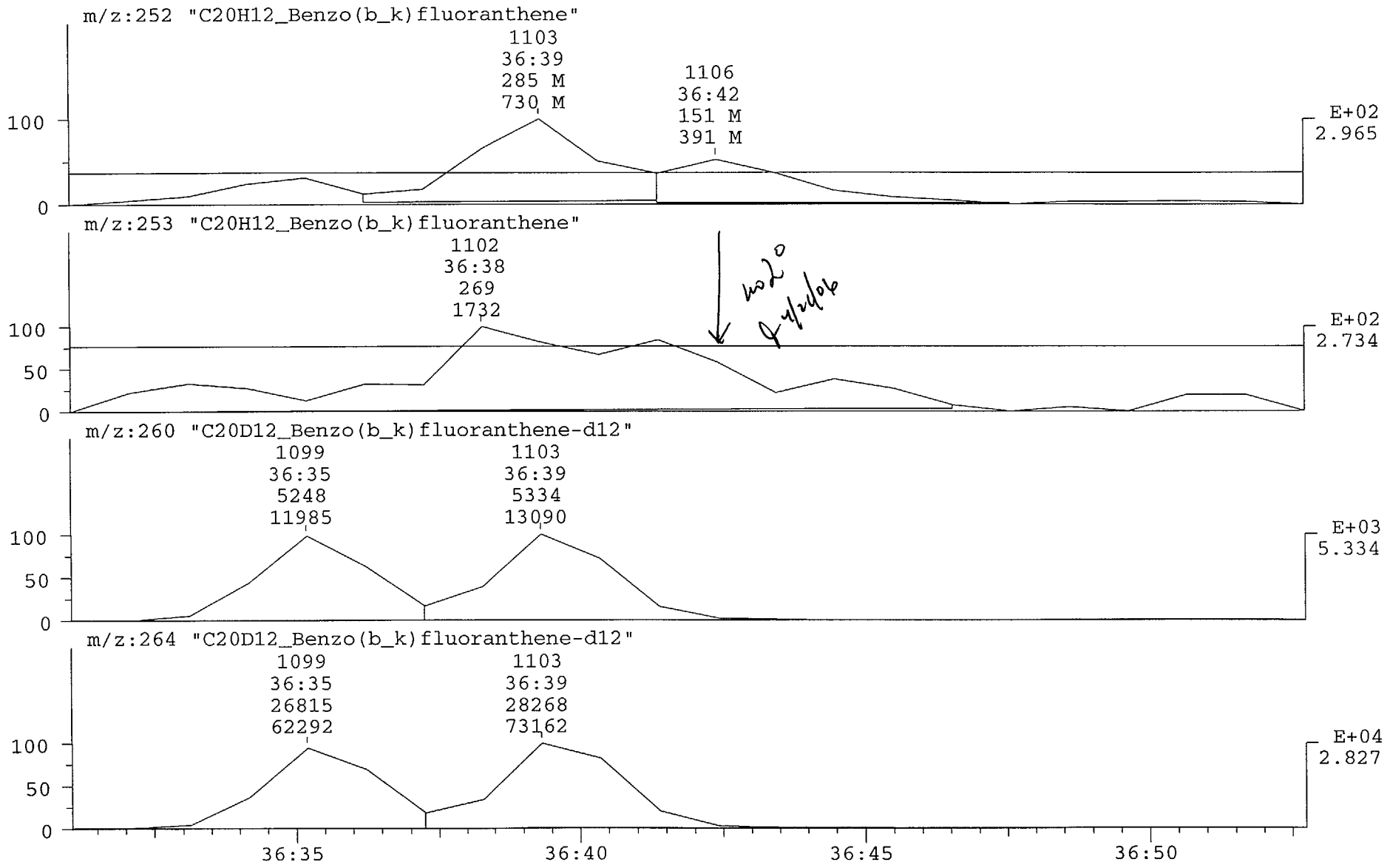
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

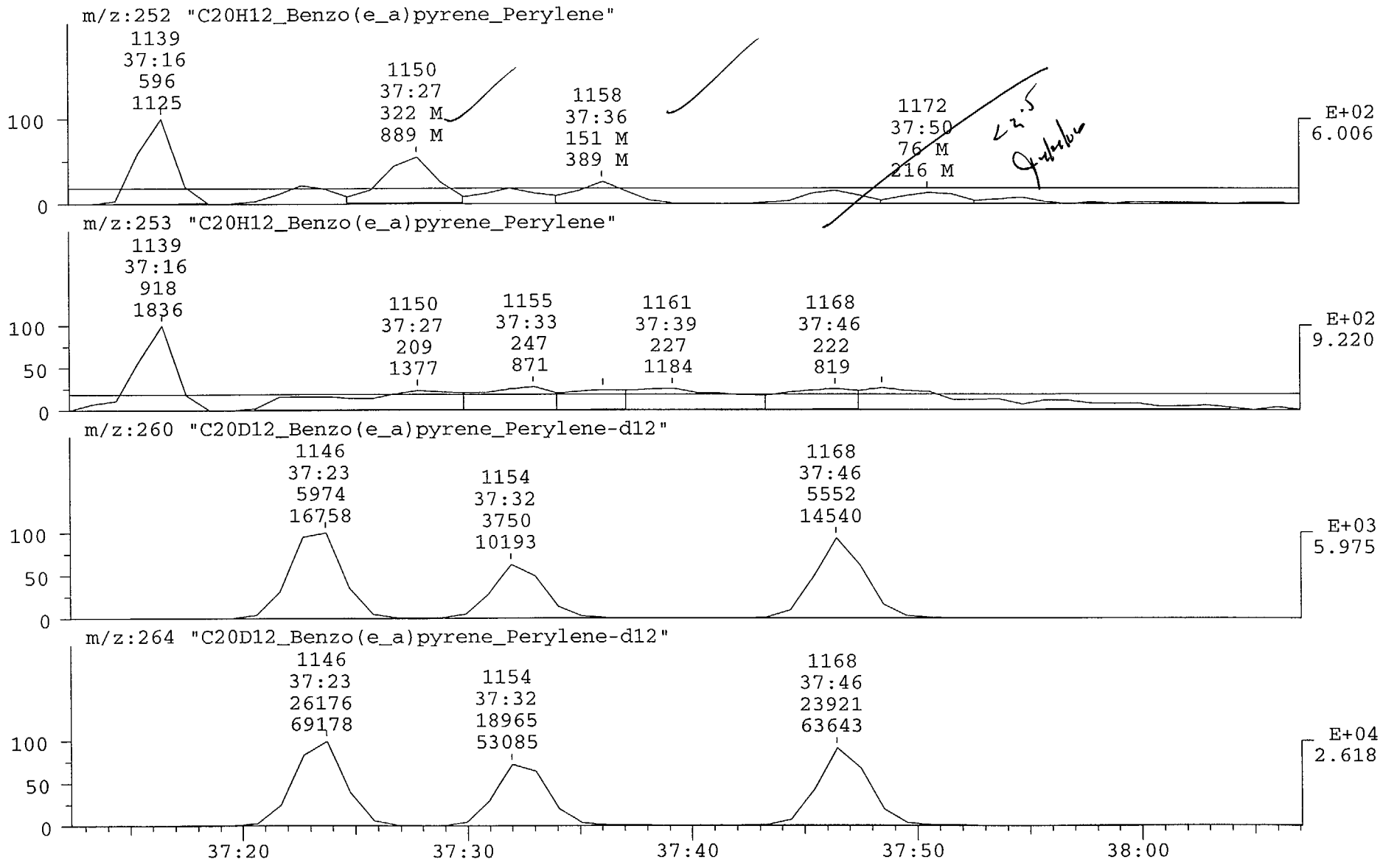


CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

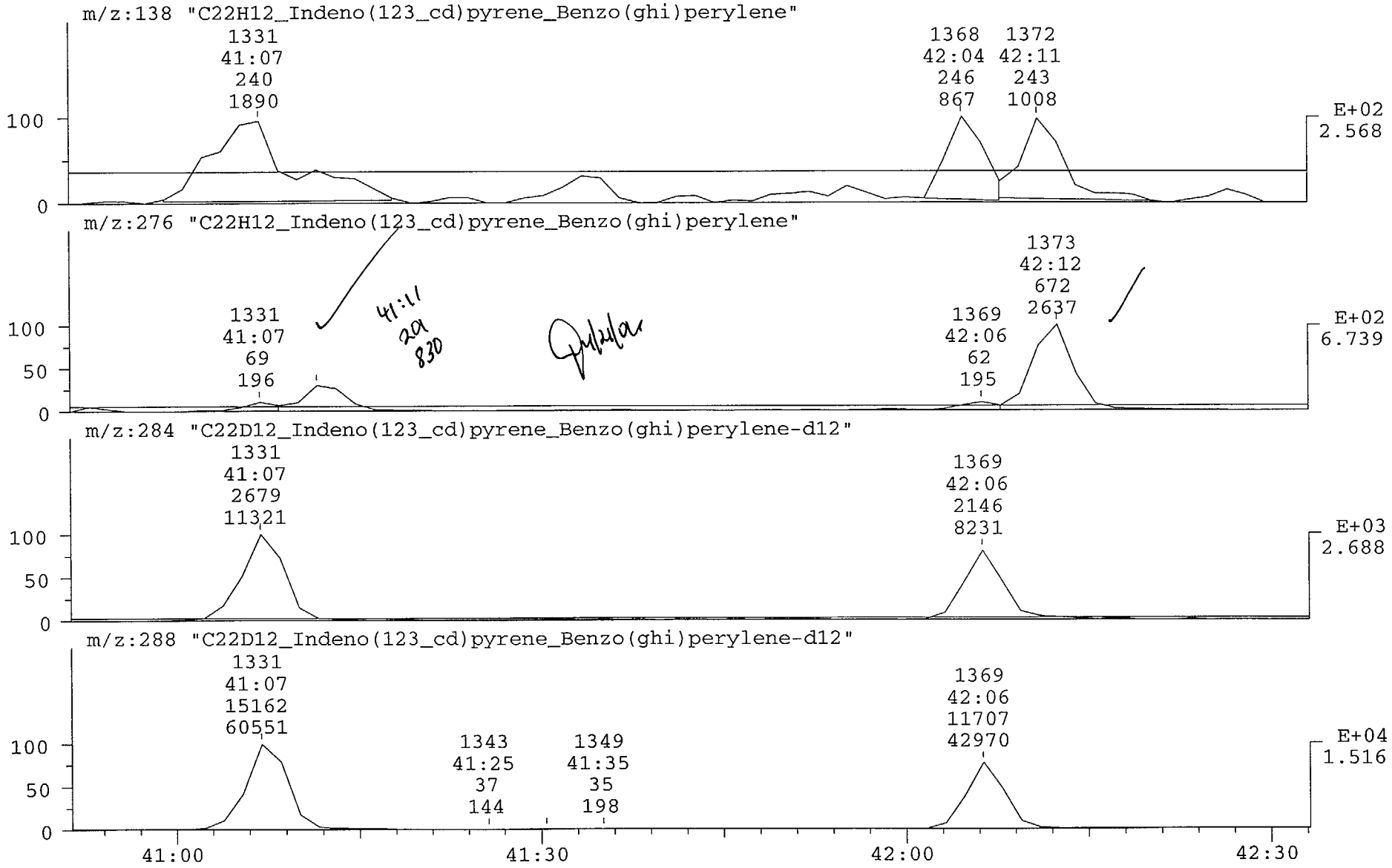


3614

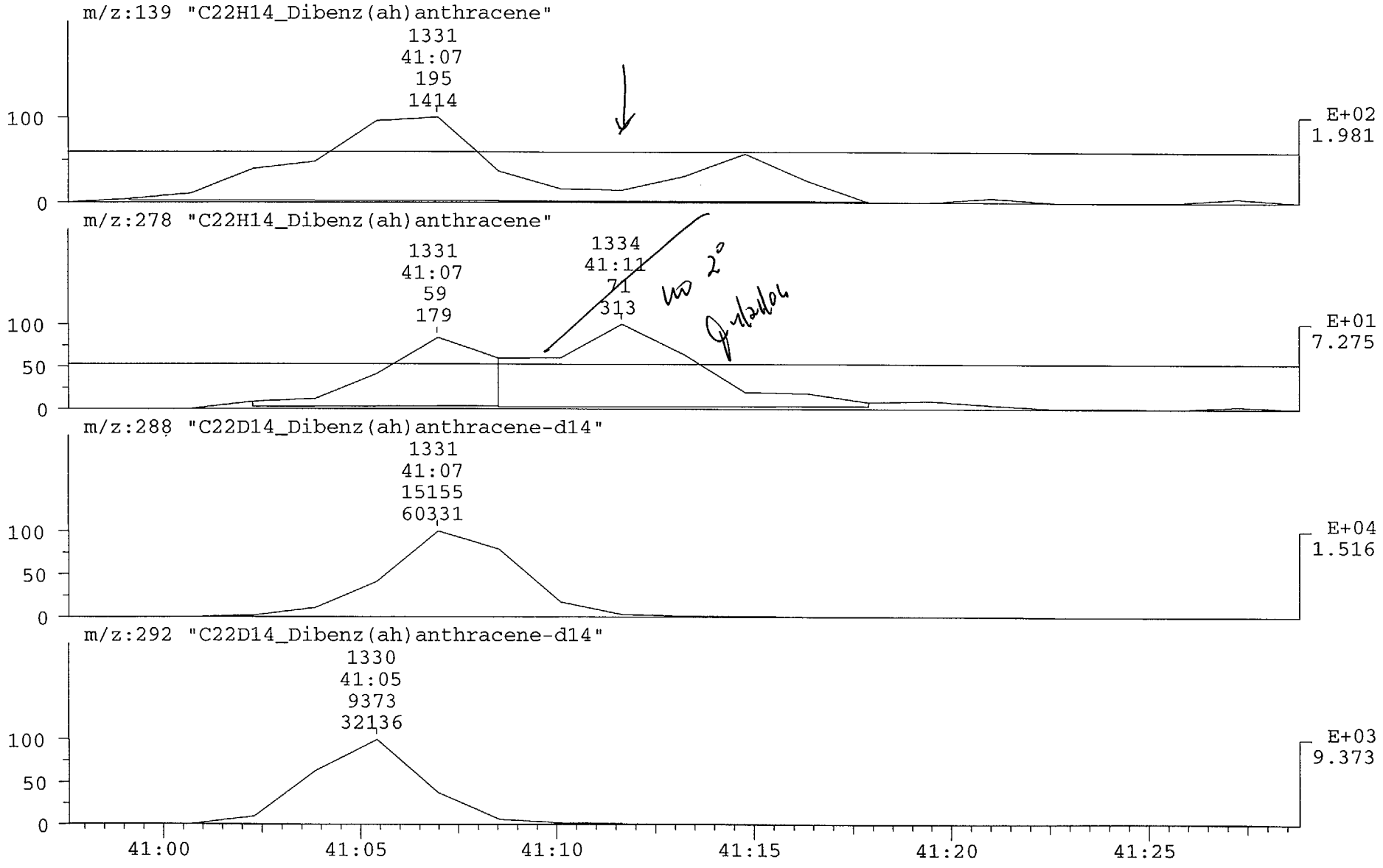
CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h2x 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h2x1aa Meth=YA1 Dil=1 Start : 04:26:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-006 Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2H2X.D
Date Acquired: 19 Apr 2006   4:26 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H2X1AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  12
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

[POSTRUN]
Source=MS
PrimaryFile=\data.ms
PrimaryType=hgfile
timestamp=MS ChemStation
Matrix=1
InitialAmt=1
FinalAmt=1

Beginning Export Process Wed Apr 19 14:10:00 2006
d:\cdffiles\YH2H2X.CDF Translated at Wed Apr 19 14:10:00 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:36:04 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h2x.dat
NetCDF File (input): /usr/users/hp/data/yh2h2x.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:36:05 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	**Work Order #....:**	H2H201AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.9**	**B J**	**20**	**0.67**	**ng/sampl**
Acenaphthylene	**2.3**	**J**	**20**	**0.14**	**ng/sampl**
Anthracene	**6.0**	**J**	**20**	**0.41**	**ng/sampl**
Benzo(a)anthracene	**4.5**	**B J**	**20**	**0.25**	**ng/sampl**
Benzo(b)fluoranthene	**13**	**B J**	**20**	**0.78**	**ng/sampl**
Benzo(k)fluoranthene	**11**	**B J**	**20**	**1.0**	**ng/sampl**
Benzo(ghi)perylene	**11**	**J**	**20**	**0.55**	**ng/sampl**
Benzo(a)pyrene	**8.0**	**B J**	**20**	**1.3**	**ng/sampl**
Benzo(e)pyrene	**8.4**	**B J**	**20**	**1.1**	**ng/sampl**
Chrysene	**13**	**B J**	**20**	**0.27**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.55	ng/sampl
Fluoranthene	**36**	**B**	**20**	**0.16**	**ng/sampl**
Fluorene	**5.8**	**B J**	**20**	**0.47**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**11**	**B J**	**20**	**0.60**	**ng/sampl**
2-Methylnaphthalene	**15**	**B J**	**20**	**0.40**	**ng/sampl**
Naphthalene	**28**	**B J**	**20**	**0.29**	**ng/sampl**
Perylene	**3.2**	**B J**	**20**	**1.1**	**ng/sampl**
Phenanthrene	**68**	**B**	**20**	**0.35**	**ng/sampl**
Pyrene	**28**	**B J**	**20**	**0.15**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	92	15 - 120
2-Methylnaphthalene-d10	98	20 - 120
Acenaphthylene-d8	108	20 - 120
Phenanthrene-d10	114	30 - 120
Fluoranthene-d10	111	30 - 120
Benzo(a)anthracene-d12	115	30 - 120
Chrysene-d12	103	30 - 120
Benzo(b)fluoranthene-d12	109	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	108	30 - 120
Perylene-d12	107	30 - 120
Indeno(1,2,3-cd)pyrene-d12	116	30 - 120
Dibenz(ah)anthracene-d14	119	30 - 120
Benzo(ghi)perylene-d12	117	30 - 120

STL Knoxville - ACS

Sample ID: G-3036/3037-R2-MM5 FRONT HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 007	**Work Order #....:**	H2H201AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder H2H201AA
Data File /20060418s2/yh2h20.d
Analysis ID 90190
Analysis Date 4/19/2006
Analysis Time 01:07
Anal Exp Date 05/20/06
Instrument H2A
Analyst JMN

Prep Batch 6100051
Prep Date 04/10/06
Prep Exp Date 04/18/06
Matrix AIR
Initial Wt/Vol 1
Extract Vol 1
Dil Factor 1.0

Lot No H6D030241-007
SDG No
Date Received 04/02/06
Date Sampled 03/28/06
Lims Test Code XXSINYA01
Method DXLPAH
Code YA1

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	136452	42364	1.748	500.0	458.399039	91.68	458.399039		0.367
Naphthalene	16:01	9373	2513	1.211		28.365993		28.365993	BJ	0.292
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:03	3509	1422	1.269		15.071584		15.071584	BJ	0.403
2-Methylnaphthalene-d10	17:58	91764	36667	1.104	500.0	488.172309	97.63	488.172309		0.291
1-Methylnaphthalene	18:23	1842	759	1.365		8.332634		8.332634	BJ	0.473
1-Methylnaphthalene-d10	18:17	80990	29067	0.958	500.0	496.260712	99.25	496.260712		0.335
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	1004	423	1.533		3.569026		3.569026	J	0.578
2,6-Dimethylnaphthalene	19:56	1439	559	1.249		6.768355		6.768355	JB	1.24
2,6-Dimethylnaphthalene-d1	19:47	85085	37926	0.977	500.0	511.561846	102.31	511.561846		0.584
C2 Alkylnaphthalenes				1.249		6.768355		6.768355	J	1.11
Acenaphthylene	20:48	830	278	1.244		2.342637		2.342637	J	0.141
Acenaphthylene-d8	20:46	142459	63966	1.548	500.0	540.371150	108.07	540.371150		0.276
Acenaphthene-d10	21:16	85140	35074	1.000	500.0	500.000000	100.00	500.000000		0.499
Acenaphthene	21:21	423	167	0.762		1.947550		1.947550	BJ	0.667
2,3,5-Trimethylnaphthalene				1.127				ND		0.497
C3 Alkylnaphthalenes				1.127				ND		0.445
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene	22:52	1456	586	0.915		5.773646		5.773646	BJ	0.470
Phenanthrene-d10	25:43	137801	63997	0.753	500.0	568.061216	113.61	568.061216		0.234
Phenanthrene	25:47	22751	10128	1.216		67.867154		67.867154	B	0.353
Anthracene-d10								ND		0.000000
Anthracene	25:54	1747	461	1.059		5.986069		5.986069	J	0.406
1-Methylphenanthrene	27:40	1180	576	0.870		4.919650		4.919650	J	0.404
Fluoranthene-d10	29:21	129501	58943	0.727	500.0	553.436190	110.69	553.436190		0.339
Fluoranthene	29:24	12498	5800	1.334		36.179229		36.179229	B	0.159
Pyrene-d10	30:02	161029	71006	1.000	500.0	500.000000	100.00	500.000000		0.246
Pyrene	30:05	9926	4398	1.369		27.998072		27.998072	BJ	0.155
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:37	96198	40666	0.521	500.0	573.330914	114.67	573.330914		0.473
Benzo(a)anthracene	33:40	1264	573	1.454		4.519409		4.519409	BJ	0.254
Chrysene-d12	33:44	92529	41007	0.557	500.0	516.062109	103.21	516.062109		0.443
Chrysene	33:48	3376	1267	1.363		13.384734		13.384734	BJ	0.268
Benzo(b)Fluoranthene-d12	36:35	92105	39230	0.847	500.0	545.959339	109.19	545.959339		0.493
Benzo(k)Fluoranthene-d12	36:39	108903	40123	1.002	500.0	545.488221	109.10	545.488221		0.417
Benzo(b)fluoranthene	36:39	3721	1426	1.508		13.398578		13.398578	BJ	0.782
Benzo(k)fluoranthene	36:42	2712	1221	1.136		10.956063		10.956063	BJ	1.01
Benzo(e)pyrene-d12	37:23	99576	38875	1.000	500.0	500.000000	100.00	500.000000		0.418
Benzo(e)pyrene	37:27	2096	805	1.589		8.361889		8.361889	BJ	1.06
Benzo(a)Pyrene-d12	37:32	78898	27379	0.737	500.0	537.609169	107.52	537.609169		0.567
Benzo(a)pyrene	37:36	1679	631	1.333		7.984177		7.984177	BJ	1.27
Perylene-d12	37:46	94831	34213	0.887	500.0	537.126315	107.43	537.126315		0.472
Perylene	37:50	716	292	1.178		3.205557		3.205557	BJ	1.15
3-Methylcholanthrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H201AA	Prep Batch	6100051	Lot No	H6D030241-007
Data File	/20060418s2/yh2h20.d	Prep Date	04/10/06	SDG No	
Analysis ID	90190	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	4/19/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	01:07	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	48143	14280	0.405	500.0	597.490429	119.50	597.490429		0.715
Indeno(1,2,3-cd)pyrene-d12	41:07	89885	20851	0.779	500.0	579.359530	115.87	579.359530		0.289
Indeno(1,2,3-cd)pyrene	41:13	2455	605	1.297		10.530852		10.530852	BJ	0.601
Dibenz(a,h)anthracene				2.059				ND		0.553
Benzo(ghi)Perylene-d12	42:06	65095	17440	0.559	500.0	584.434887	116.89	584.434887		0.402
Benzo(ghi)perylene	42:12	2335	623	1.698		10.561663		10.561663	BJ	0.549
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H201AA	Prep Batch	6100051	Lot No	H6D030241-007
Data File	/20060418s2/yh2h20.d	Prep Date	04/10/06	SDG No	
Analysis ID	90190	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/19/06 01:07 ✓	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	30		12				
	Naphthalene	16:01	16:01	0	9373 ✓		2513			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	45		18				
	Naphthalene-d8	15:58	15:57	1	136452 ✓		42364			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	38		15				
	2-Methylnaphthalene	18:03	18:03	0	3509 ✓		1422			ABB	M
	1-Methylnaphthalene	18:23	18:23	0	1842 ✓		759			ABB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	23		9				
	2-Methylnaphthalene-d10	17:58	17:58	0	91764 ✓		36667			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	80990 ✓		29067			AVB	
	Acenaphthylene	20:48	20:48	0	830 ✓		278			MBB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	65		26				
	Biphenyl	19:27	19:26	1	1004 ✓		423			MVV	
	Acenaphthene	21:21	21:22	-1	423 ✓		167			MVV	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	118		47				
	2,6-Dimethylnaphthalene	19:56	19:55	1	1439 ✓		559			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	30		12				
	Acenaphthylene-d8	20:46	20:47	-1	142459 ✓		63966			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	35		14				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	35		14				
	Acenaphthene-d10	21:16	21:16	0	85140 ✓		35074			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	55		22				
	Fluorene	22:52	22:52	0	1456 ✓		586			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	40		16				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	85085 ✓		37926			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	28		11				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	43		17				
172					172.0000		172.0000				
	Noise	00:00	00:00	0	25		10				
176					176.0000		176.0000				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H201AA	Prep Batch	6100051	Lot No	H6D030241-007
Data File	/20060418s2/yh2h20.d	Prep Date	04/10/06	SDG No	
Analysis ID	90190	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/19/06 01:07	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					176.0000		176.0000				
	Noise	00:00	00:00	0	30		12				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	55		22				
	Phenanthrene	25:47	25:48	-1	22751 ✓		10128			MBV	M
	Anthracene	25:54	25:55	-1	1747 ✓		461			MVV	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	25		10				
	Phenanthrene-d10	25:43	25:44	-1	137801 ✓		63997			ABV	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	45		18				
	1-Methylphenanthrene	27:40	27:41	-1	1180 ✓		576			AVB	
202					202.0000		202.0000				
	Noise	00:00	00:00	0	25		10				
	Fluoranthene	29:24	29:24	0	12498 ✓		5800			MBV	M
	Pyrene	30:05	30:05	0	9926 ✓		4398			MBB	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	35		14				
	Fluoranthene-d10	29:21	29:21	0	129501 ✓		58943			ABV	
	Pyrene-d10	30:02	30:02	0	161029 ✓		71006			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	30		12				
	Benzo(a)anthracene	33:40	33:40	0	1264 ✓		573			AVV	M
	Chrysene	33:48	33:48	0	3376 ✓		1267			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	35		14				
	Benzo(a)Anthracene-d12	33:37	33:36	1	96198 ✓		40666			ABV	
	Chrysene-d12	33:44	33:44	0	92529 ✓		41007			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	13		5				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	93		37				
	Benzo(b)fluoranthene	36:39	36:39	0	3721 ✓		1426			MBV	M
	Benzo(k)fluoranthene	36:42	36:42	0	2712 ✓		1221			AVB	M
	Benzo(e)pyrene	37:27	37:27	0	2096 ✓		805			MBV	M
	Benzo(a)pyrene	37:36	37:36	0	1679 ✓		631			MVB	M
	Perylene	37:50	37:50	0	716 ✓		292			MBB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	33		13				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	92105 ✓		39230			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	108903 ✓		40123			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	99576 ✓		38875			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	78898 ✓		27379			AVV	
	Perylene-d12	37:46	37:46	0	94831 ✓		34213			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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H201AA	Prep Batch	6100051	Lot No	H6D030241-007
Data File	/20060418s2/yh2h20.d	Prep Date	04/10/06	SDG No	
Analysis ID	90190	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/19/06 01:07	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

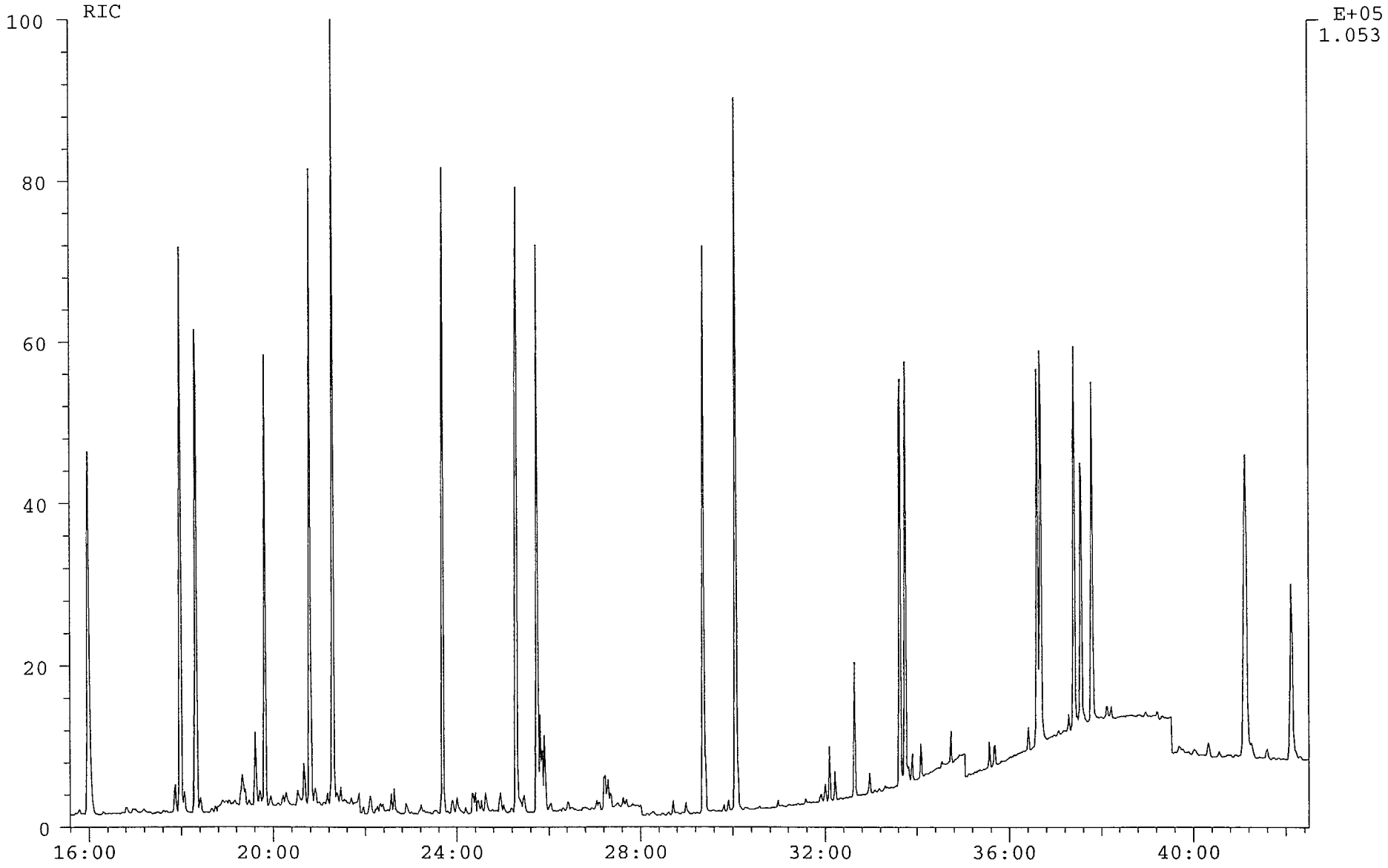
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
268					268.0000		268.0000				
	Noise	00:00	00:00	0	103		41				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	33		13				
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	2455 ✓		605			AVB	M
	Benzo(ghi)perylene	42:12	42:13	-1	2335 ✓		623			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	33		13				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	89885 ✓		20851			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	65095 ✓		17440			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	23		9				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	48143 ✓		14280			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	23		9				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	15		6				

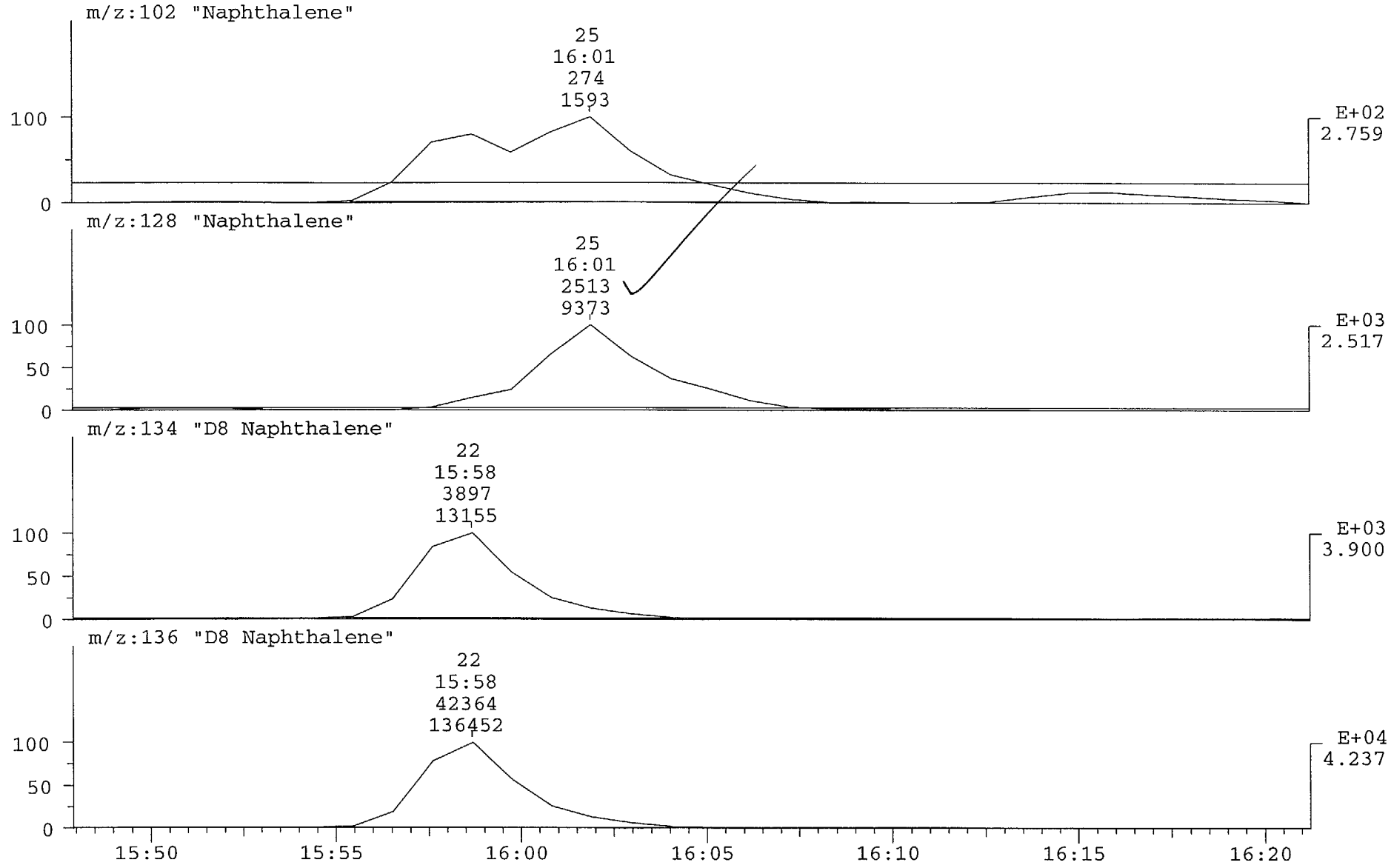
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int/Calc: JMN 4/20/06
QC Rev VMIC 4/24/06

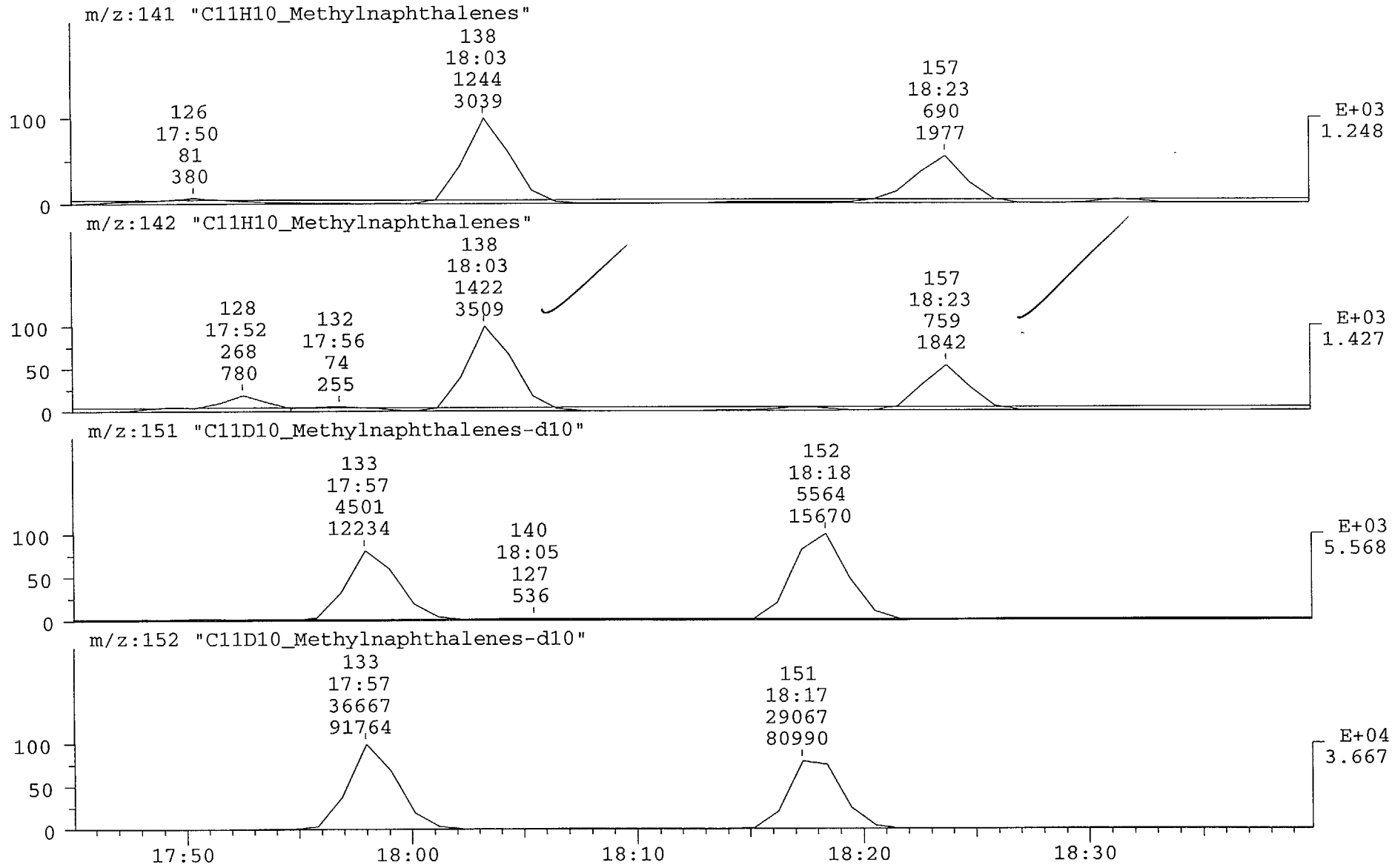
```
CHRO:  yh2h20                                  19-APR-06   Elapse:   42:06      1369
Samp:  WO=h2h201aa Meth=YA1 Dil=1                          Start :   01:07:00   1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100051
Oper:  JMN           Client:  H6D030241-007               Inlet :
Peak:  100.00  ppm     Label wndw:   1365 > 1373          Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   0, 3.0
Disp:  Height  Area
```



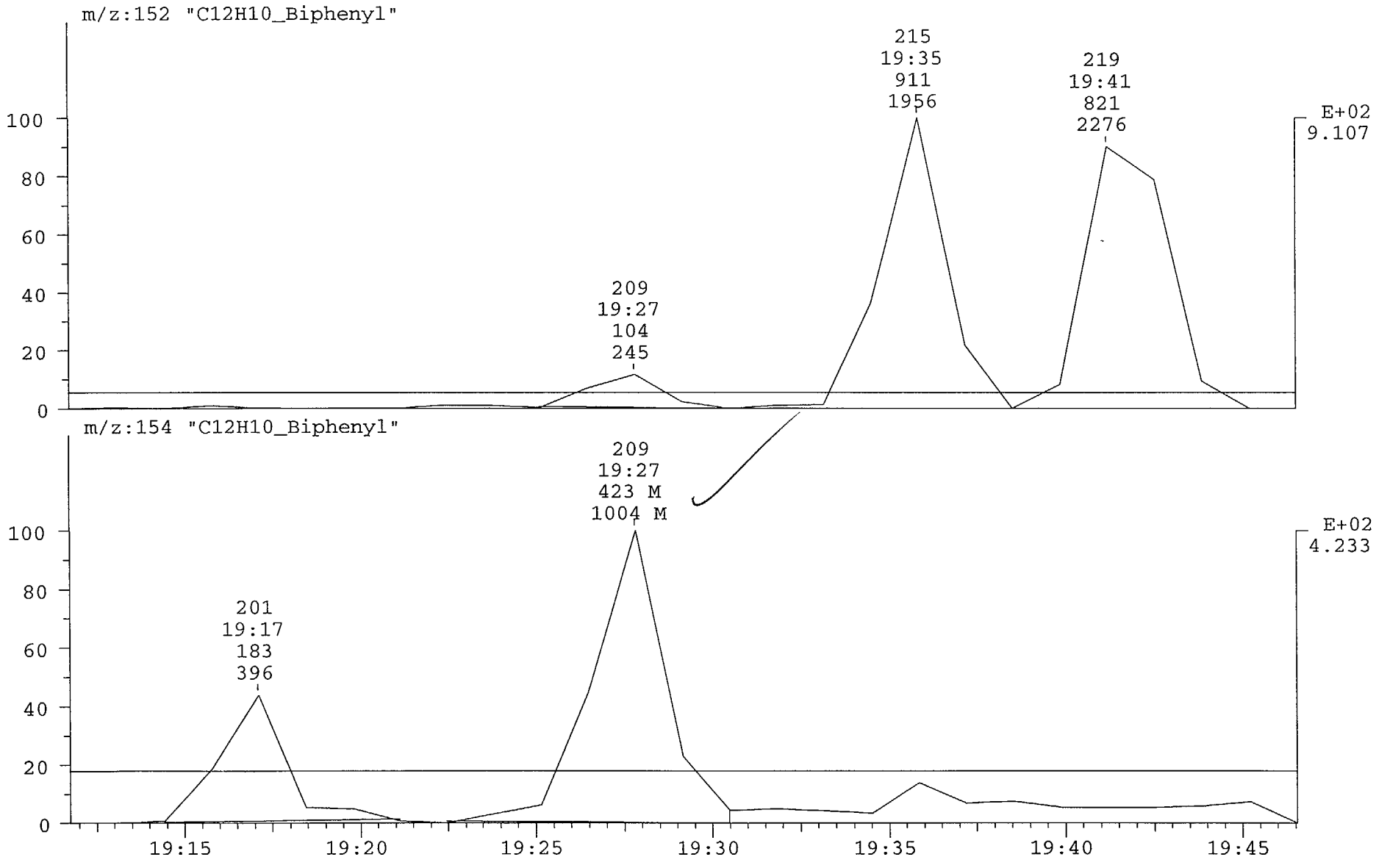
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



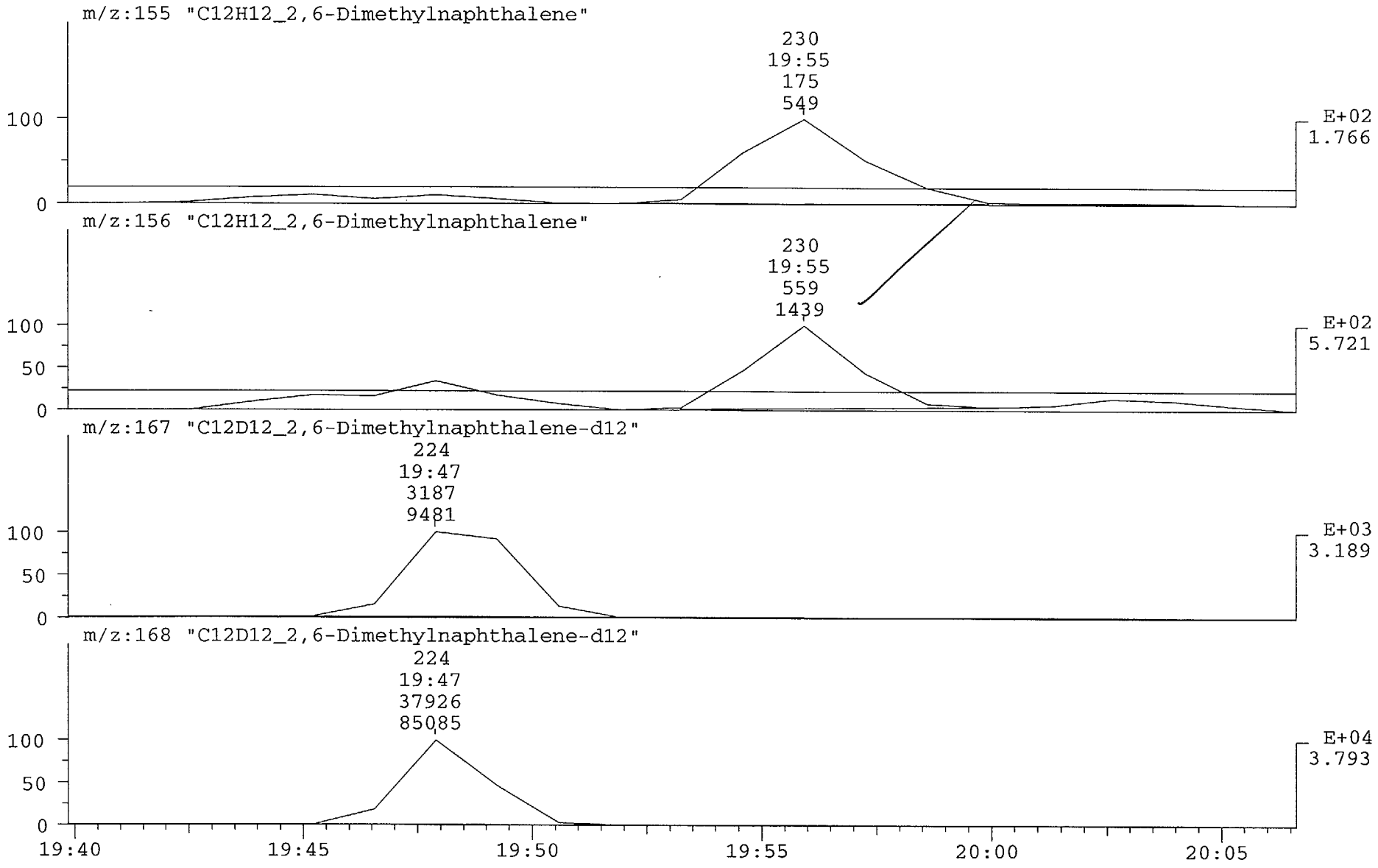
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



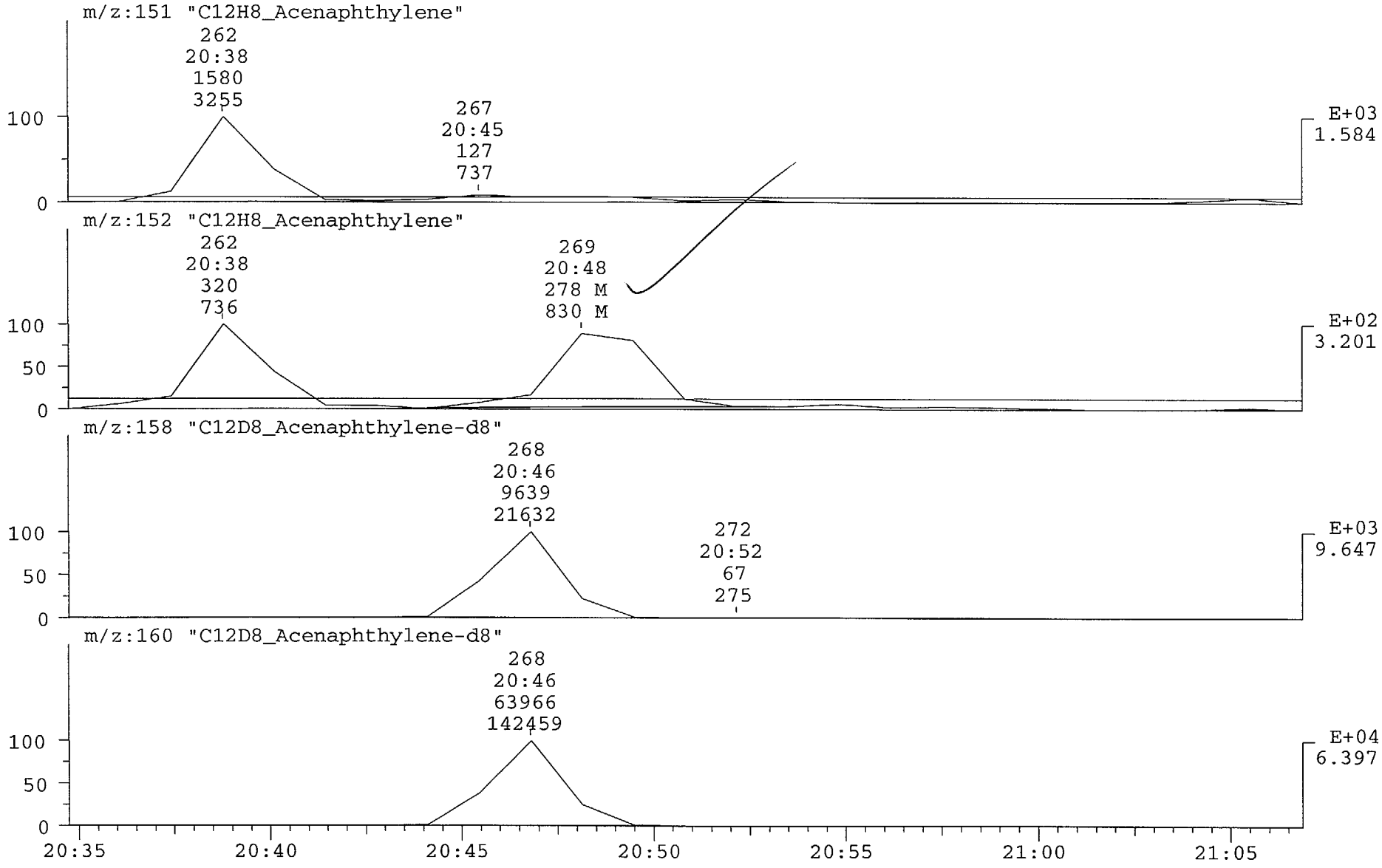
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



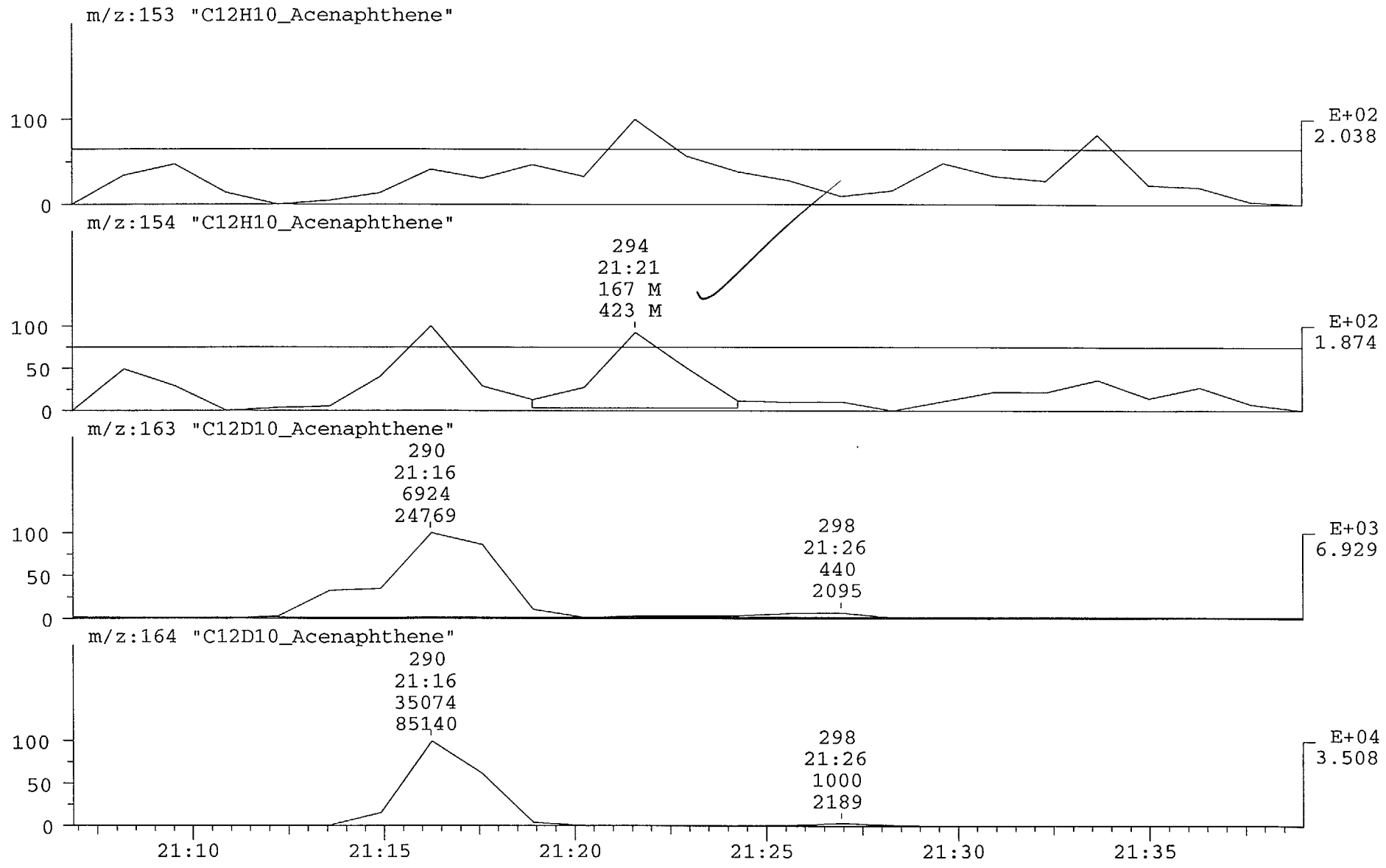
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



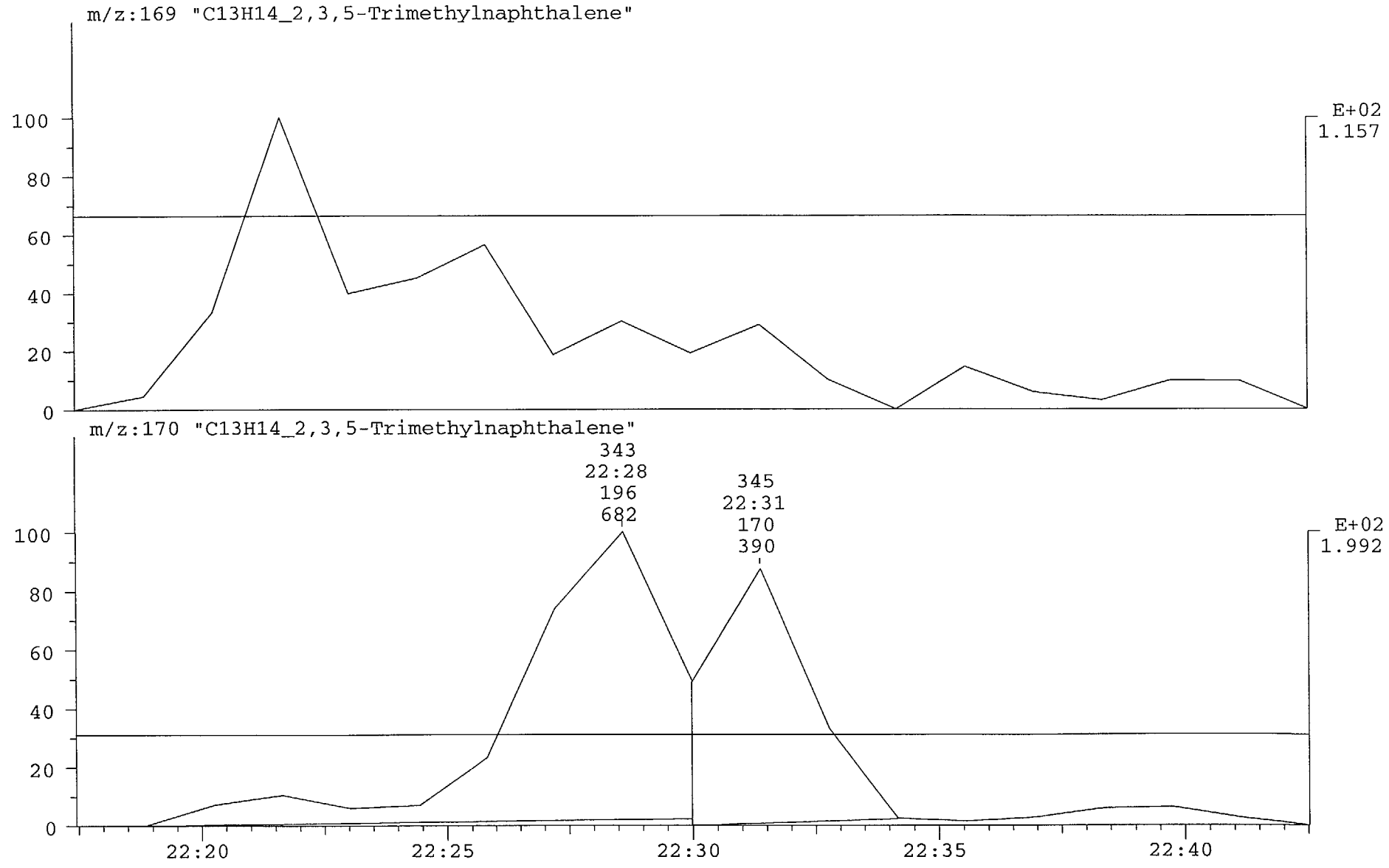
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



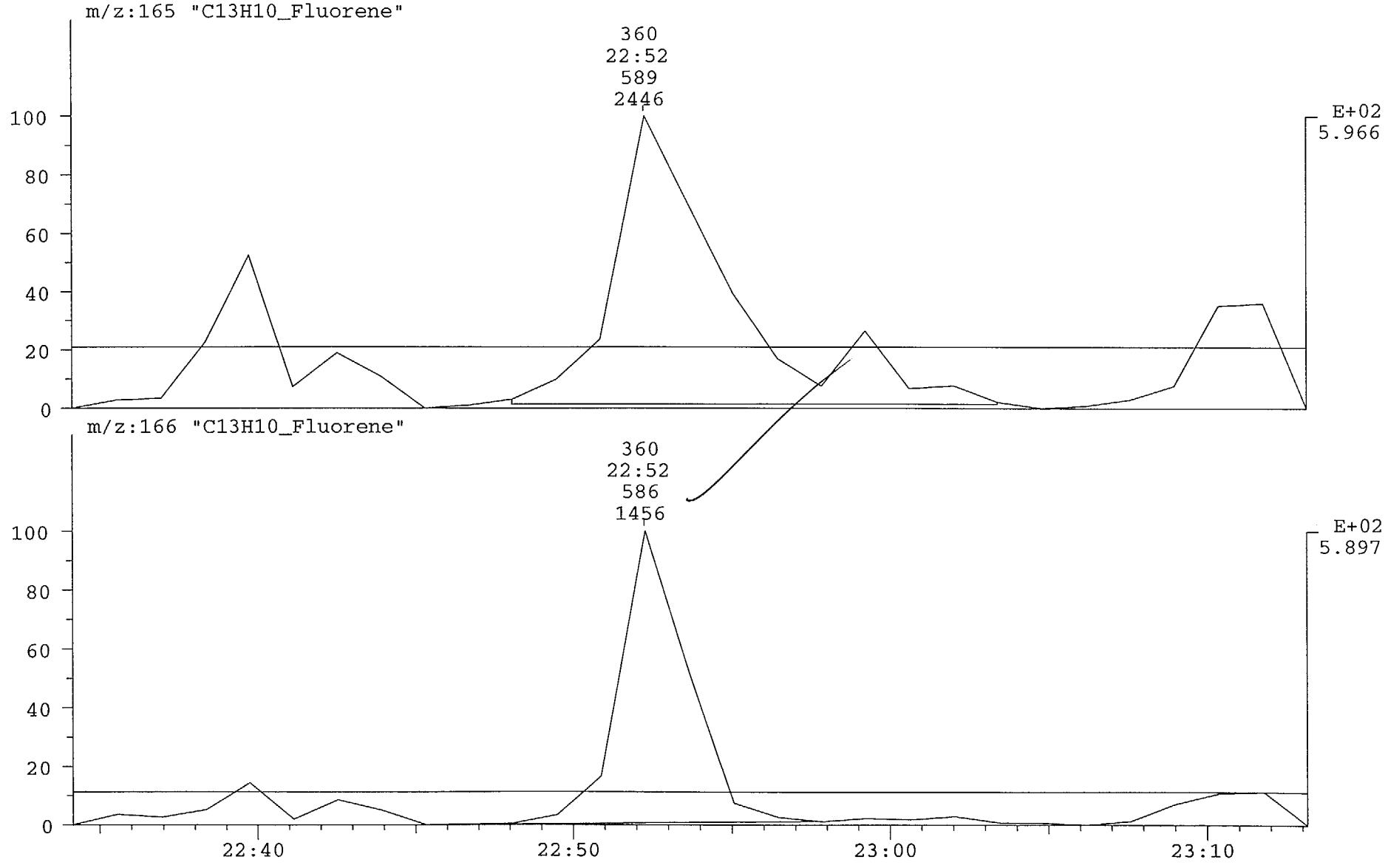
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



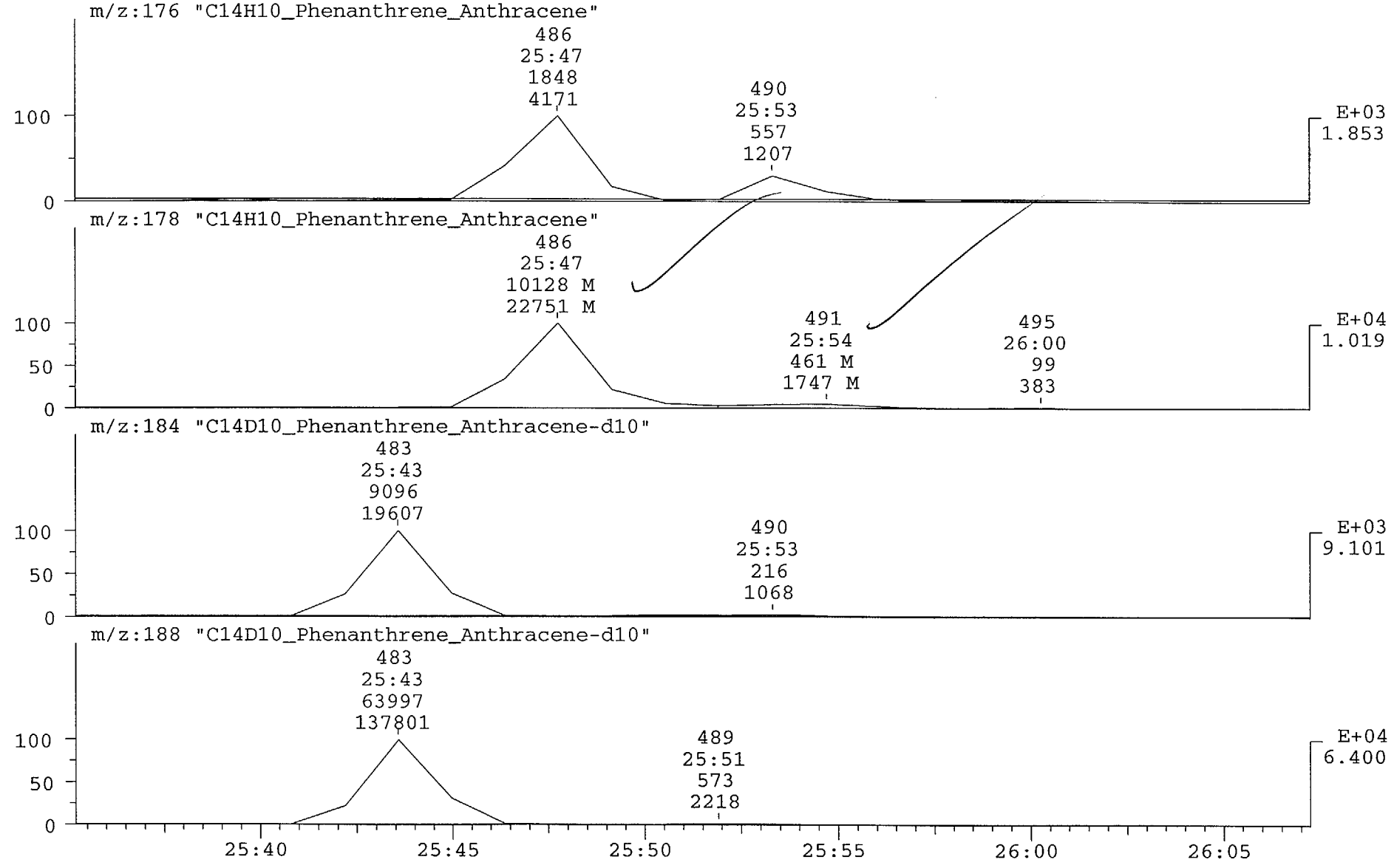
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



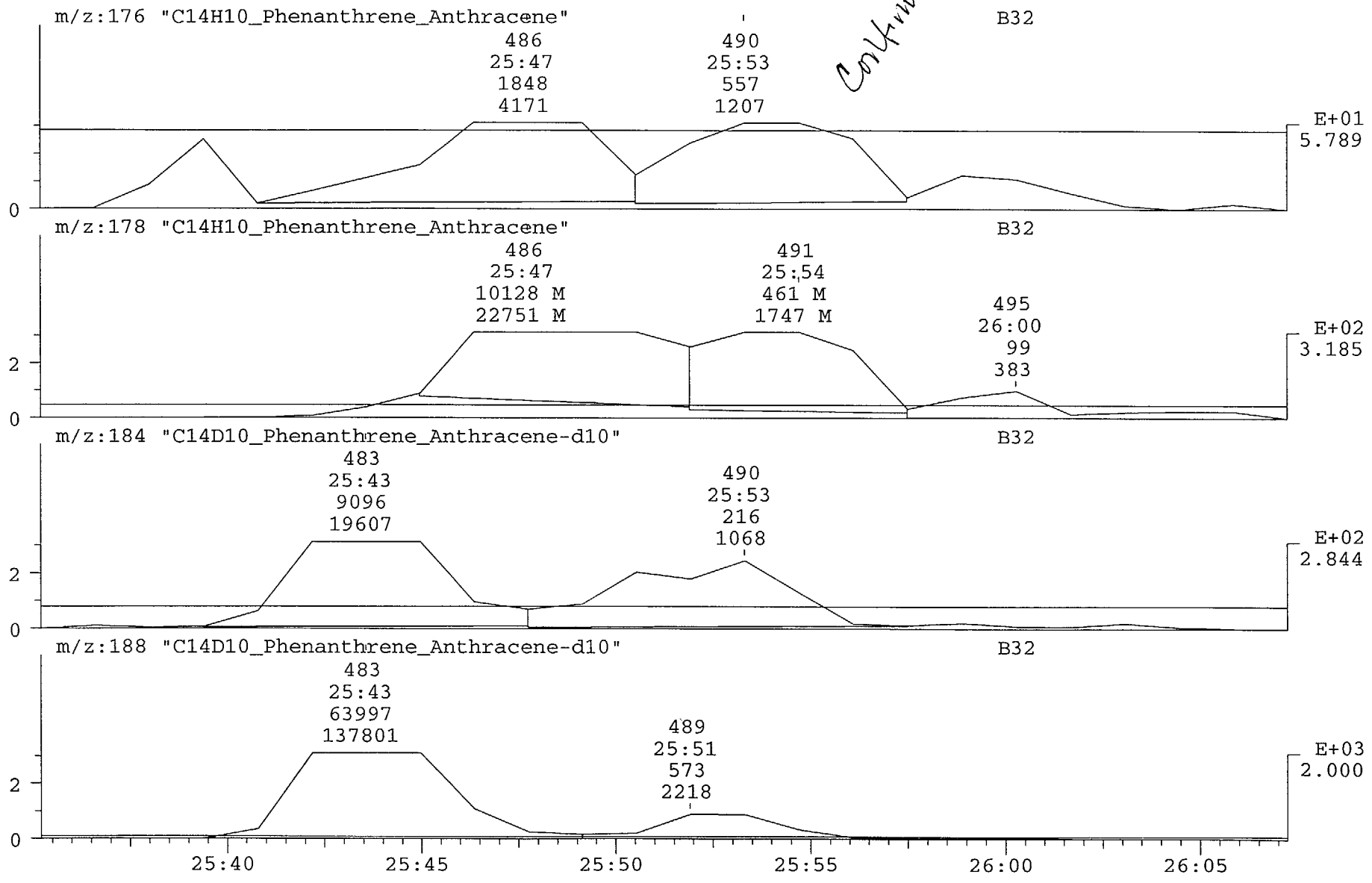
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



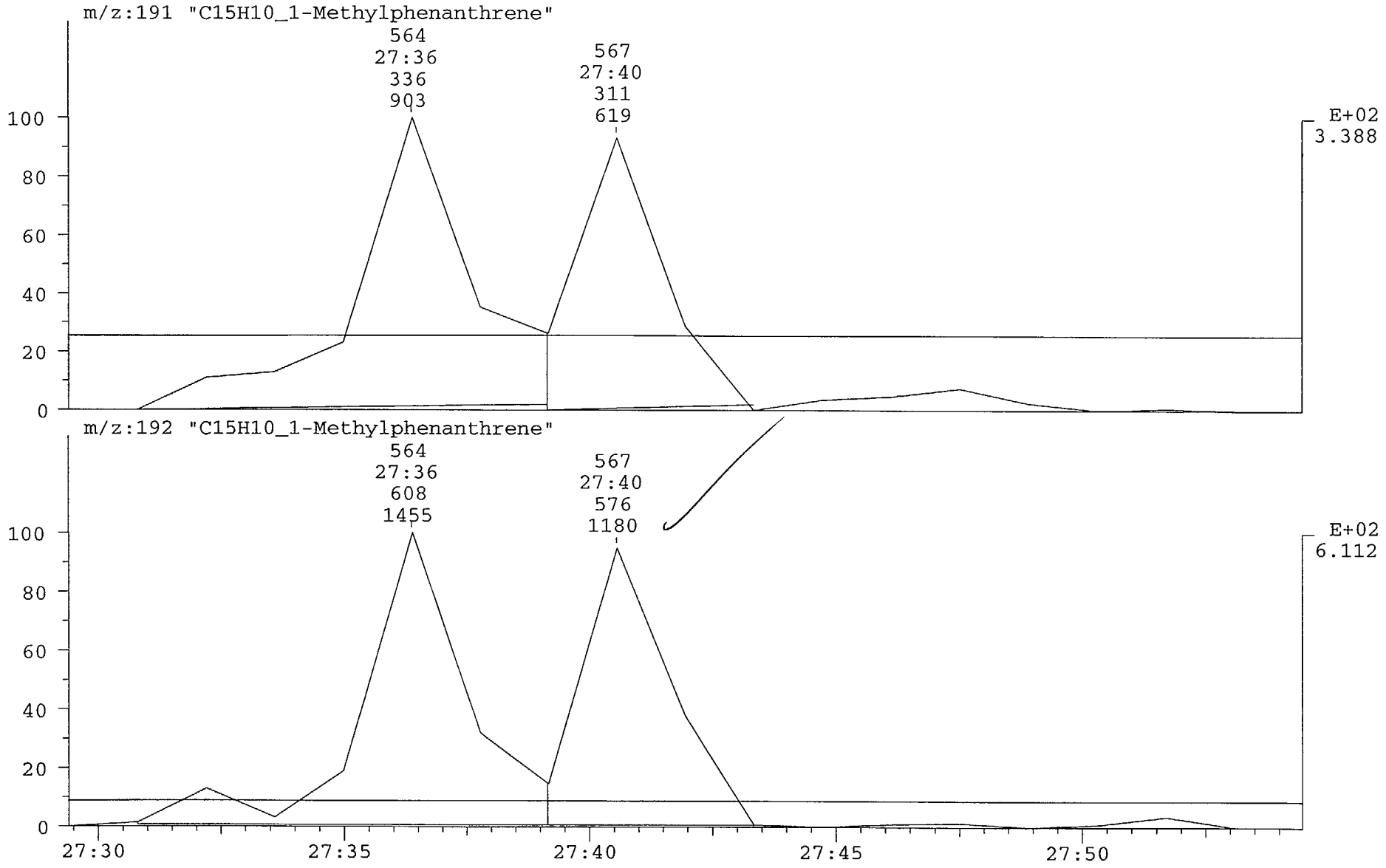
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



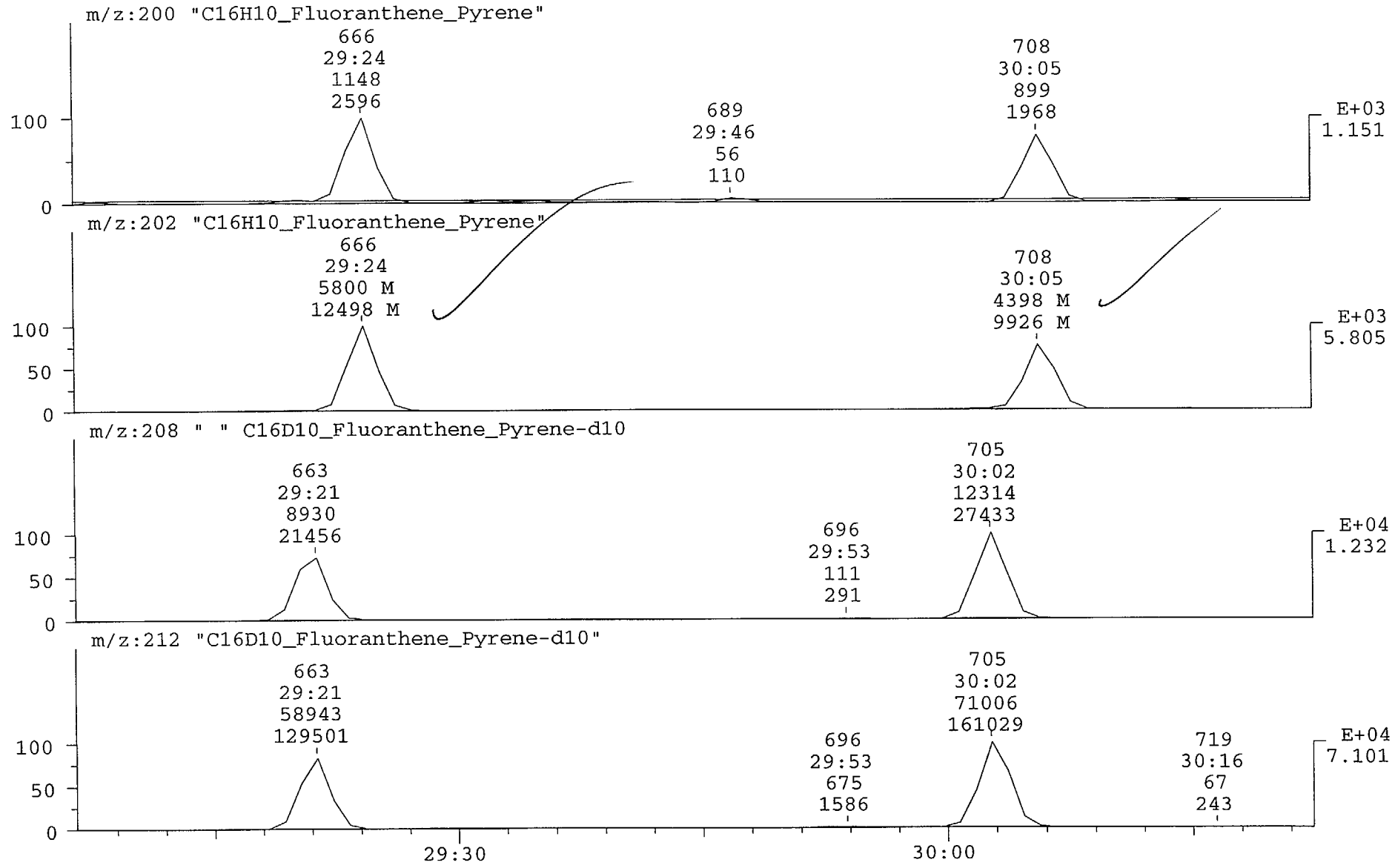
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



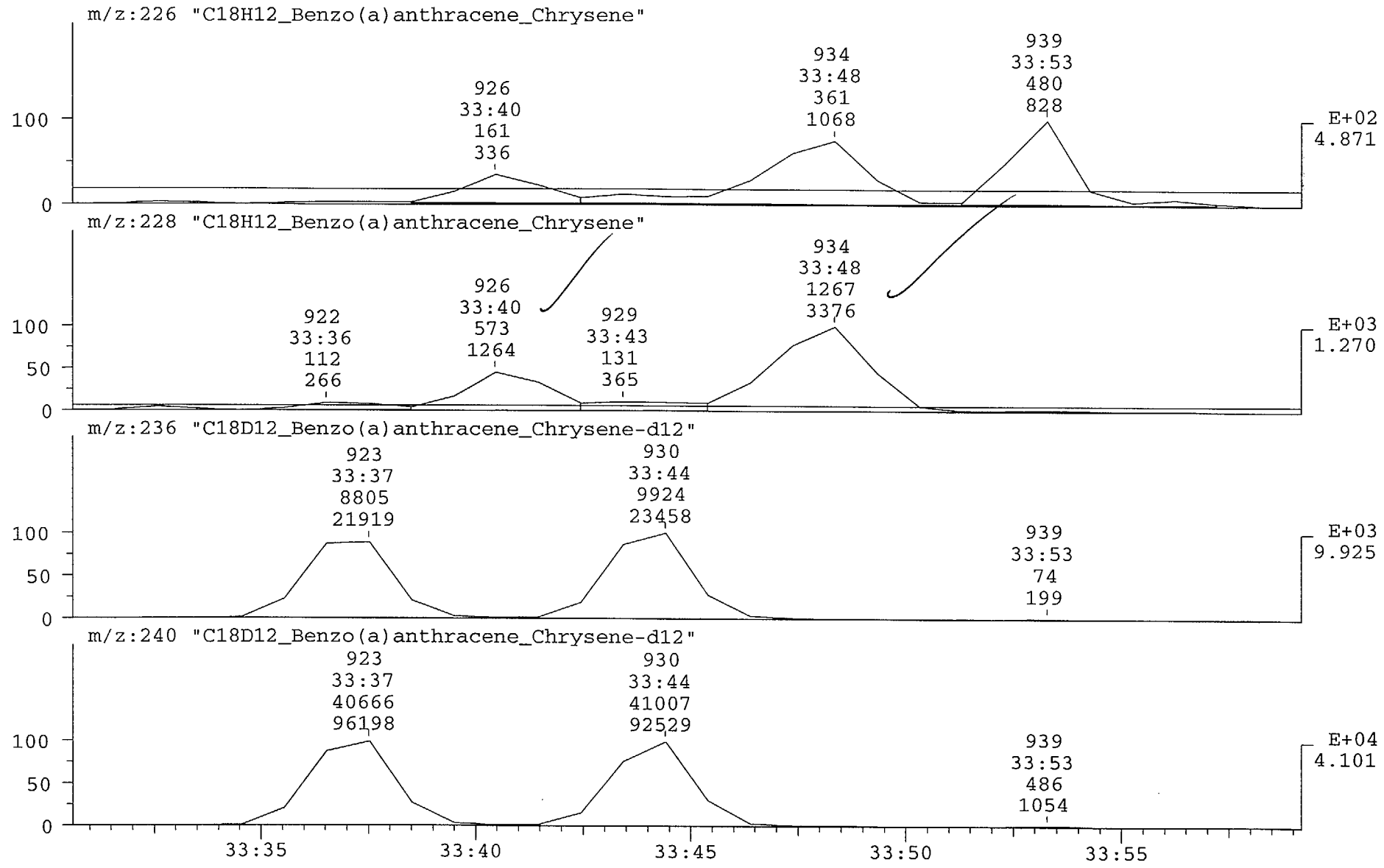
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



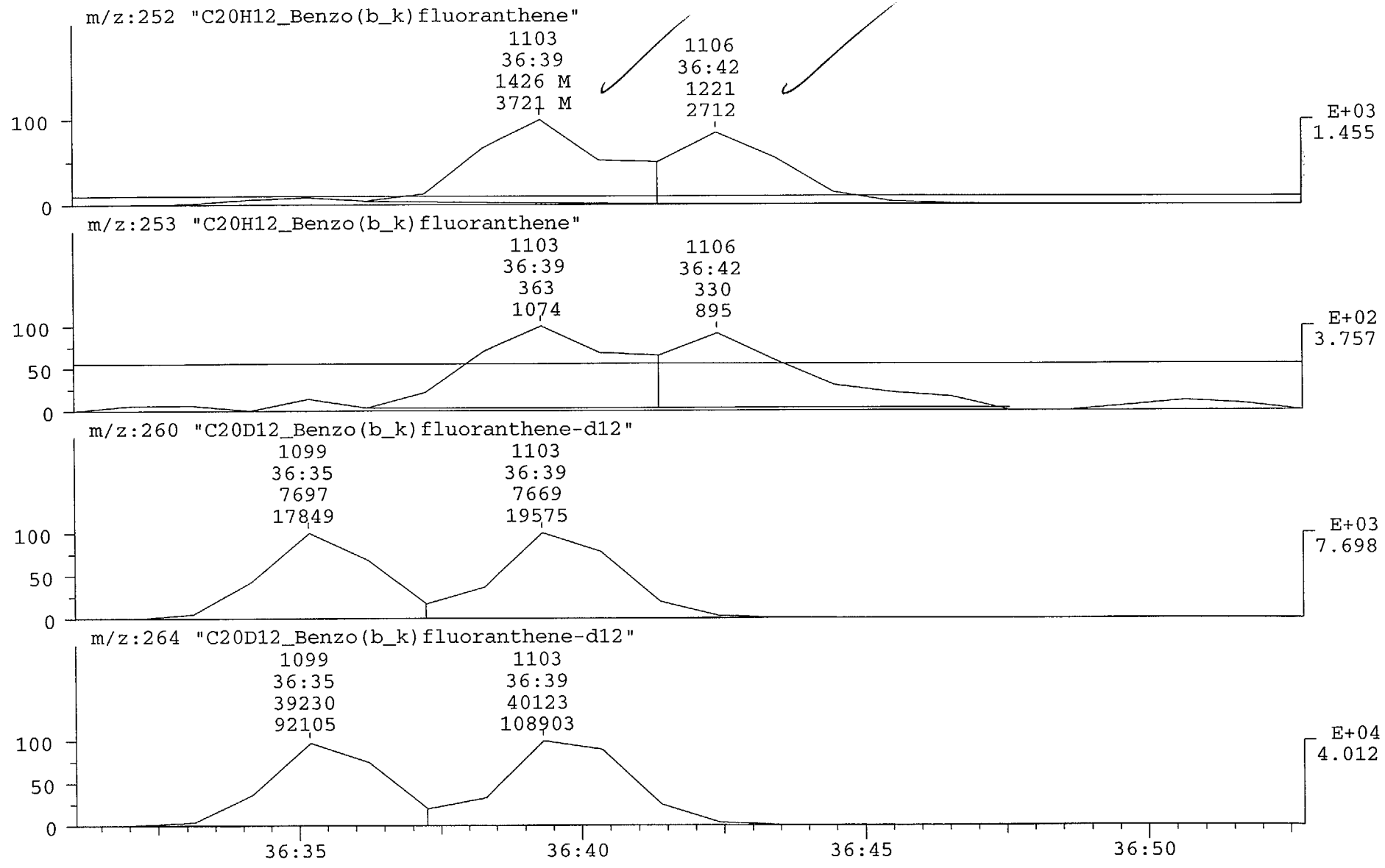
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



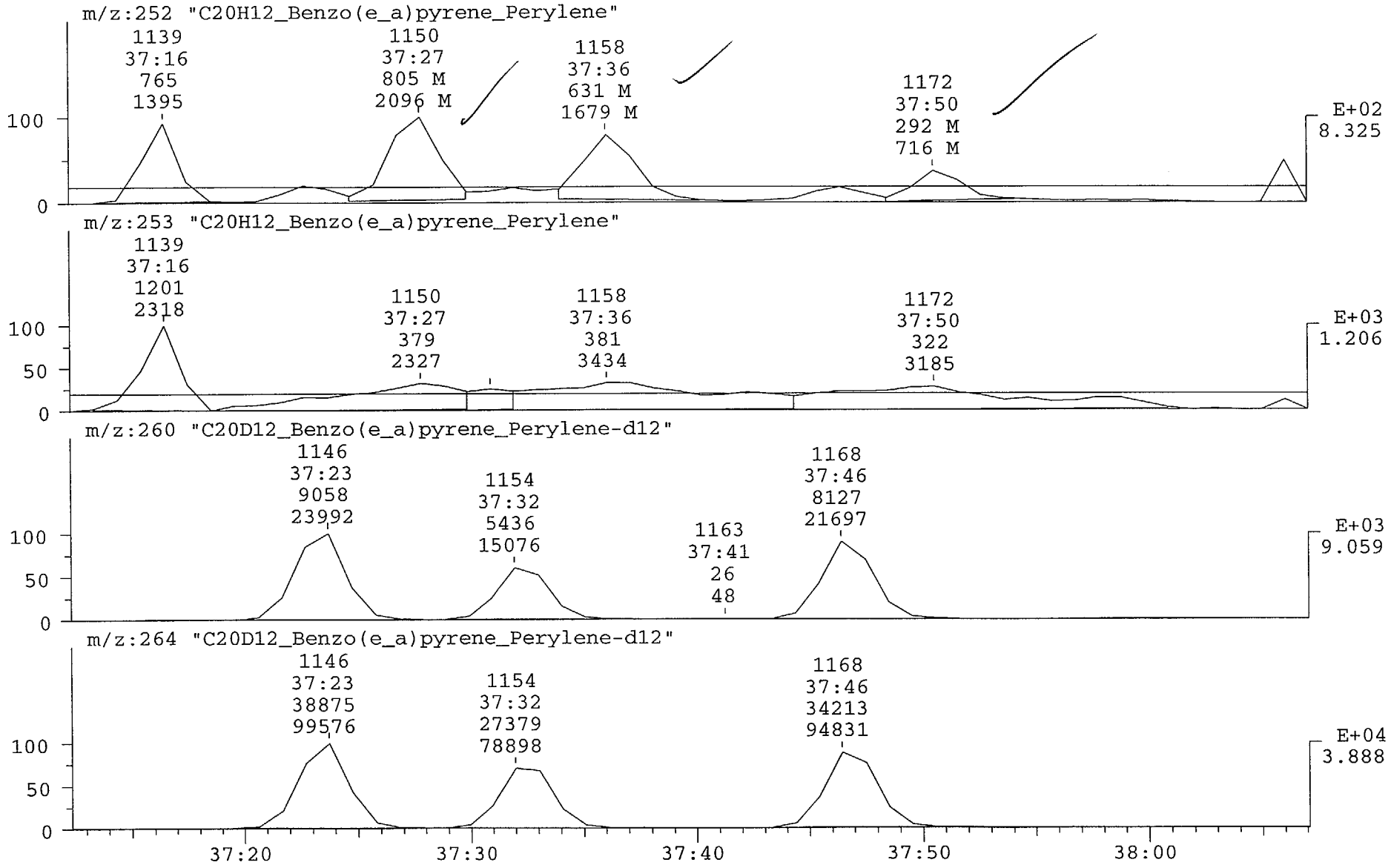
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



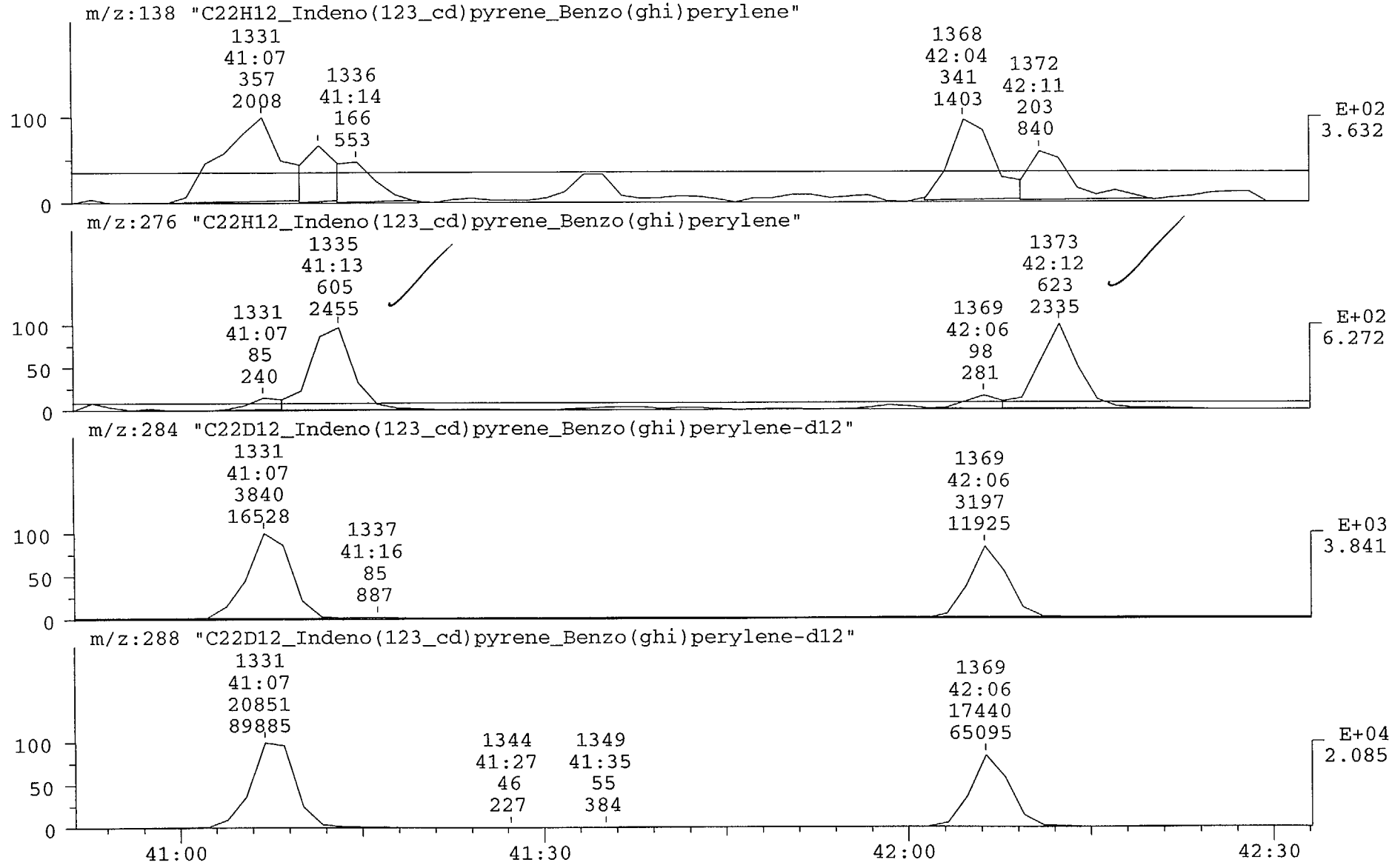
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



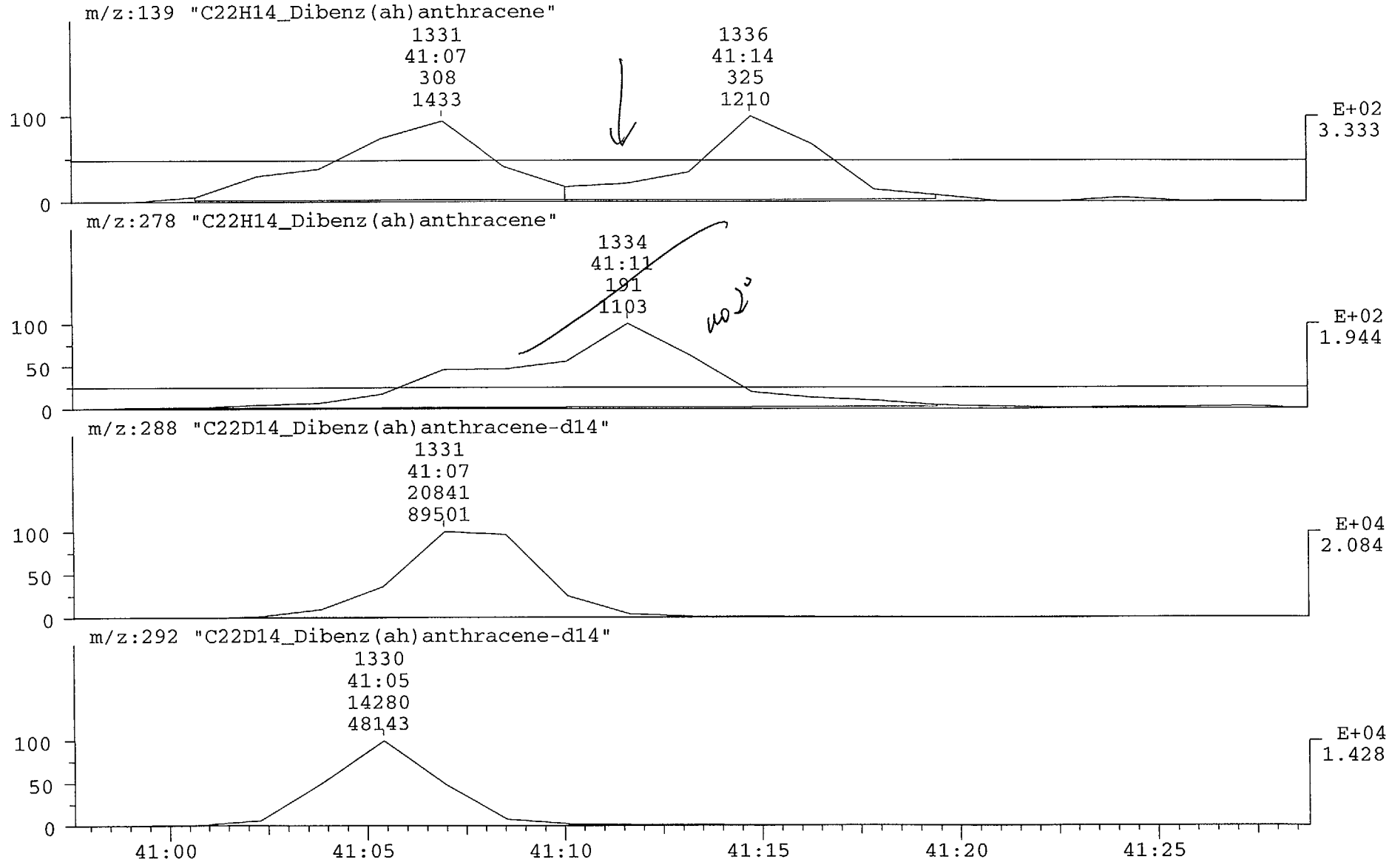
CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h20 19-APR-06 Elapse: 41:00 1327
Samp: WO=h2h201aa Meth=YA1 Dil=1 Start : 01:07:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-007 Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2H20.D
Date Acquired: 19 Apr 2006   1:07 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H201AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  8
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

[POSTRUN]
Source=MS
PrimaryFile=\data.ms
PrimaryType=hgfile
timestamp=MS ChemStation
Matrix=1
InitialAmt=1
FinalAmt=1

Beginning Export Process Wed Apr 19 14:09:07 2006
d:\cdffiles\YH2H20.CDF Translated at Wed Apr 19 14:09:07 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:35:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h20.dat
NetCDF File (input): /usr/users/hp/data/yh2h20.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:35:01 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	**Work Order #....:**	H2H211AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**4.2**	**B J**	**20**	**0.60**	**ng/sampl**
Acenaphthylene	**1.3**	**J**	**20**	**0.22**	**ng/sampl**
Anthracene	ND		20	0.45	ng/sampl
Benzo(a)anthracene	ND		20	0.21	ng/sampl
Benzo(b)fluoranthene	**39**	**B**	**20**	**0.51**	**ng/sampl**
Benzo(k)fluoranthene	**3.5**	**J**	**20**	**0.60**	**ng/sampl**
Benzo(ghi)perylene	**3.3**	**J**	**20**	**0.92**	**ng/sampl**
Benzo(a)pyrene	ND		20	0.72	ng/sampl
Benzo(e)pyrene	ND		20	0.62	ng/sampl
Chrysene	**2.4**	**J**	**20**	**0.24**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.64	ng/sampl
Fluoranthene	**9.6**	**B J**	**20**	**0.46**	**ng/sampl**
Fluorene	**2.8**	**B J**	**20**	**0.43**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**1.4**	**J**	**20**	**0.82**	**ng/sampl**
2-Methylnaphthalene	**17**	**B J**	**20**	**0.33**	**ng/sampl**
Naphthalene	**200**	**B J**	**20**	**0.50**	**ng/sampl**
Perylene	**1.6**	**B J**	**20**	**0.68**	**ng/sampl**
Phenanthrene	**12**	**B J**	**20**	**0.39**	**ng/sampl**
Pyrene	**19**	**B J**	**20**	**0.45**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
Naphthalene-d8	85		15 - 120
2-Methylnaphthalene-d10	93		20 - 120
Acenaphthylene-d8	107		20 - 120
Phenanthrene-d10	111		30 - 120
Fluoranthene-d10	108		30 - 120
Benzo(a)anthracene-d12	110		30 - 120
Chrysene-d12	104		30 - 120
Benzo(b)fluoranthene-d12	111		30 - 120
Benzo(k)fluoranthene-d12	108		30 - 120
Benzo(a)pyrene-d12	109		30 - 120
Perylene-d12	109		30 - 120
Indeno(1,2,3-cd)pyrene-d12	124	*	30 - 120
Dibenz(ah)anthracene-d14	128	*	30 - 120
Benzo(ghi)perylene-d12	124	*	30 - 120

STL Knoxville - ACS

Sample ID: G-3038/3039-R2-MM5 BACK HALF COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 008	**Work Order #....:**	H2H211AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	97	30 - 140
Terphenyl-d14	92	30 - 140
13C6-Fluorene	102	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H211AA	Prep Batch	6100060	Lot No	H6D030241-008
Data File	/20060427s1/yh2h212.d	Prep Date	04/10/06	SDG No	
Analysis ID	90368	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	21:28	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	16:12	315963	119069	1.623	500.0	425.104960	85.02	425.104960		0.355
Naphthalene	16:15	153899	60901	1.233		197.579306		197.579306	B J	0.502
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:07	9970	4657	1.270		16.826591		16.826591	BJ	0.333
2-Methylnaphthalene-d10	18:03	233333	91757	1.093	500.0	466.301930	93.26	466.301930		0.417
1-Methylnaphthalene	18:27	6149	2709	1.358		10.877843		10.877843	BJ	0.291
1-Methylnaphthalene-d10	18:21	208155	97956	0.958	500.0	474.729635	94.95	474.729635		0.476
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	8478	3370	1.552		11.704731		11.704731	J B	0.553
2,6-Dimethylnaphthalene	19:56	2976	1200	1.240		5.252024		5.252024	J B	0.808
2,6-Dimethylnaphthalene-d1	19:49	228415	89855	1.009	500.0	494.340584	98.87	494.340584		0.499
C2 Alkylnaphthalenes				1.240		5.252024		5.252024	J	0.609
Acenaphthylene	20:48	1278	423	1.221		1.297703		1.297703	J	0.217
Acenaphthylene-d8	20:46	403202	178833	1.646	500.0	534.928386	106.99	534.928386		0.350
Acenaphthene-d10	21:16	228908	104174	1.000	500.0	500.000000	100.00	500.000000		0.552
Acenaphthene	21:21	2512	977	0.740		4.212204		4.212204	BJ	0.595
2,3,5-Trimethylnaphthalene				1.140				ND		0.439
C3 Alkylnaphthalenes				1.140				ND		0.332
Fluorene d-10	22:46	580960	272066	0.805	1000	968.831164	96.88	968.831164		0.401
Fluorene-C13	22:52	569576	218536	0.752	1000	1015.89332	101.59	1015.89332		0.292
Fluorene	22:50	1854	651	0.892		2.788979		2.788979	BJ	0.427
Phenanthrene-d10	25:42	372649	170571	0.793	500.0	556.278259	111.26	556.278259		0.337
Phenanthrene	25:46	11110	4265	1.210		12.318144		12.318144	BJ	0.394
Anthracene-d10								ND		0.000000
Anthracene				1.065				ND		0.447
1-Methylphenanthrene	27:39	1828	782	0.871		2.816847		2.816847	J	0.337
Fluoranthene-d10	29:20	347790	155208	0.761	500.0	540.526184	108.11	540.526184		0.303
Fluoranthene	29:23	8685	3463	1.298		9.618564		9.618564	BJ	0.459
Pyrene-d10	30:01	422492	173098	1.000	500.0	500.000000	100.00	500.000000		0.231
Pyrene	30:04	17748	7305	1.319		19.345977		19.345977	BJ	0.452
Terphenyl-d14	30:30	487612	230043	0.762	1000	920.470117	92.05	920.470117		0.180
Benzo(a)Anthracene-d12	33:36	239947	107661	0.514	500.0	552.363840	110.47	552.363840		0.365
Benzo(a)anthracene				1.385				ND		0.210
Chrysene-d12	33:43	225663	96709	0.516	500.0	517.535894	103.51	517.535894		0.364
Chrysene	33:47	1437	527	1.333		2.387867		2.387867	BJ	0.242
Benzo(b)Fluoranthene-d12	36:35	217349	90308	0.895	500.0	557.389528	111.48	557.389528		0.742
Benzo(k)Fluoranthene-d12	36:39	241812	101239	1.030	500.0	538.494199	107.70	538.494199		0.645
Benzo(b)fluoranthene	36:37	24440	10054	1.446		38.894575		38.894575	B	0.507
Benzo(k)fluoranthene	36:41	1842	485	1.093		3.483191		3.483191	BJ	0.598
Benzo(e)pyrene-d12	37:22	217942	80925	1.000	500.0	500.000000	100.00	500.000000		0.664
Benzo(e)pyrene				1.495				ND		0.619
Benzo(a)Pyrene-d12	37:32	184453	71606	0.776	500.0	545.298389	109.06	545.298389		0.856
Benzo(a)pyrene				1.286				ND		0.720
Perylene-d12	37:46	222537	85450	0.936	500.0	545.314301	109.06	545.314301		0.709
Perylene	37:52	833	332	1.140		1.641840		1.641840	BJ	0.680
3-Methylcholanthrene								ND		0.000000

JML 4/28/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H211AA	Prep Batch	6100060	Lot No	H6D030241-008
Data File	/20060427s1/yh2h212.d	Prep Date	04/10/06	SDG No	
Analysis ID	90368	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	21:28	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:03	112177	28892	0.402	500.0	640.676112	128.14	640.676112		0.538
Indeno(1,2,3-cd)pyrene-d12	41:07	209083	55438	0.772	500.0	621.260661	124.25	621.260661		0.320
Indeno(1,2,3-cd)pyrene	41:11	754	235	1.259		1.431981		1.431981	BJ	0.824
Dibenz(a,h)anthracene				1.961				ND		0.640
Benzo(ghi)Perylene-d12	42:06	151855	38252	0.561	500.0	621.118543	124.22	621.118543		0.441
Benzo(ghi)perylene	42:11	1621	398	1.639		3.256104		3.256104	BJ	0.917
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H211AA	Prep Batch	6100060	Lot No	H6D030241-008
Data File	/20060427s1/yh2h212.d	Prep Date	04/10/06	SDG No	
Analysis ID	90368	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/27/06 21:28	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	148		59				
	Naphthalene	16:15	16:05	10	153899		60901			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	120		48				
	Naphthalene-d8	16:12	16:02	10	315963		119069			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	78		31				
	2-Methylnaphthalene	18:07	18:08	-1	9970		4657			AVB	M
	1-Methylnaphthalene	18:27	18:27	0	6149		2709			AVB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	95		38				
	2-Methylnaphthalene-d10	18:03	18:03	0	233333		91757			ABB	
	1-Methylnaphthalene-d10	18:21	18:22	-1	208155		97956			ABV	
	Acenaphthylene	20:48	20:52	-4	1278		423			MBB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	158		63				
	Biphenyl	19:27	19:31	-4	8478		3370			ABB	M
	Acenaphthene	21:21	21:25	-4	2512		977			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	180		72				
	2,6-Dimethylnaphthalene	19:56	19:59	-3	2976		1200			ABB	M
160					160.0000		160.0000				
	Noise	00:00	00:00	0	120		48				
	Acenaphthylene-d8	20:46	20:50	-4	403202		178833			ABV	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	130		52				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	115		46				
	Acenaphthene-d10	21:16	21:20	-4	228908		104174			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	130		52				
	Fluorene	22:50	22:56	-6	1854		651			MBV	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	105		42				
	2,6-Dimethylnaphthalene	19:49	19:52	-3	228415		89855			ABB	M
169					169.0000		169.0000				
	Noise	00:00	00:00	0	98		39				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	90		36				
172					172.0000		172.0000				
	Noise	00:00	00:00	0	75		30				
	Fluorene-C13	22:52	22:56	-4	569576		218536			AVB	M

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H211AA	Prep Batch	6100060	Lot No	H6D030241-008
Data File	/20060427s1/yh2h212.d	Prep Date	04/10/06	SDG No	
Analysis ID	90368	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/27/06 21:28	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					176.0000		176.0000				
	Noise	00:00	00:00	0	110		44				
	Fluorene d-10	22:46	22:51	-5	580960		272066			ABB	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	163		65				
	Phenanthrene	25:46	25:50	-4	11110		4265			ABB	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	93		37				
	Phenanthrene-d10	25:42	25:46	-4	372649		170571			ABV	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	100		40				
	1-Methylphenanthrene	27:39	27:43	-4	1828		782			AVB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	185		74				
	Fluoranthene	29:23	29:25	-2	8685		3463			MBB	M
	Pyrene	30:04	30:07	-3	17748		7305			AVV	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	80		32				
	Fluoranthene-d10	29:20	29:22	-2	347790		155208			AVV	
	Pyrene-d10	30:01	30:03	-2	422492		173098			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	63		25				
	Chrysene	33:47	33:48	-1	1437		527			MVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	65		26				
	Benzo(a)Anthracene-d12	33:36	33:37	-1	239947		107661			ABV	
	Chrysene-d12	33:43	33:44	-1	225663		96709			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	43		17				
	Terphenyl-d14	30:30	30:32	-2	487612		230043			ABB	
252					252.0000		252.0000				
	Noise	00:00	00:00	0	133		53				
	Benzo(b)fluoranthene	36:37	36:38	-1	24440		10054			ABV	M
	Benzo(k)fluoranthene	36:41	36:41	0	1842		485			MVV	M
	Perylene	37:52	37:49	3	833		332			MVB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	108		43				
	Benzo(b)Fluoranthene-d1	36:35	36:34	1	217349		90308			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:38	1	241812		101239			AVB	
	Benzo(e)pyrene-d12	37:22	37:22	0	217942		80925			AVV	
	Benzo(a)Pyrene-d12	37:32	37:31	1	184453		71606			AVV	
	Perylene-d12	37:46	37:45	1	222537		85450			AVV	
268					268.0000		268.0000				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H211AA	Prep Batch	6100060	Lot No	H6D030241-008
Data File	/20060427s1/yh2h212.d	Prep Date	04/10/06	SDG No	
Analysis ID	90368	Prep Exp Date	04/18/06	Date Received	04/02/06
Analysis Date	04/27/06 21:28	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

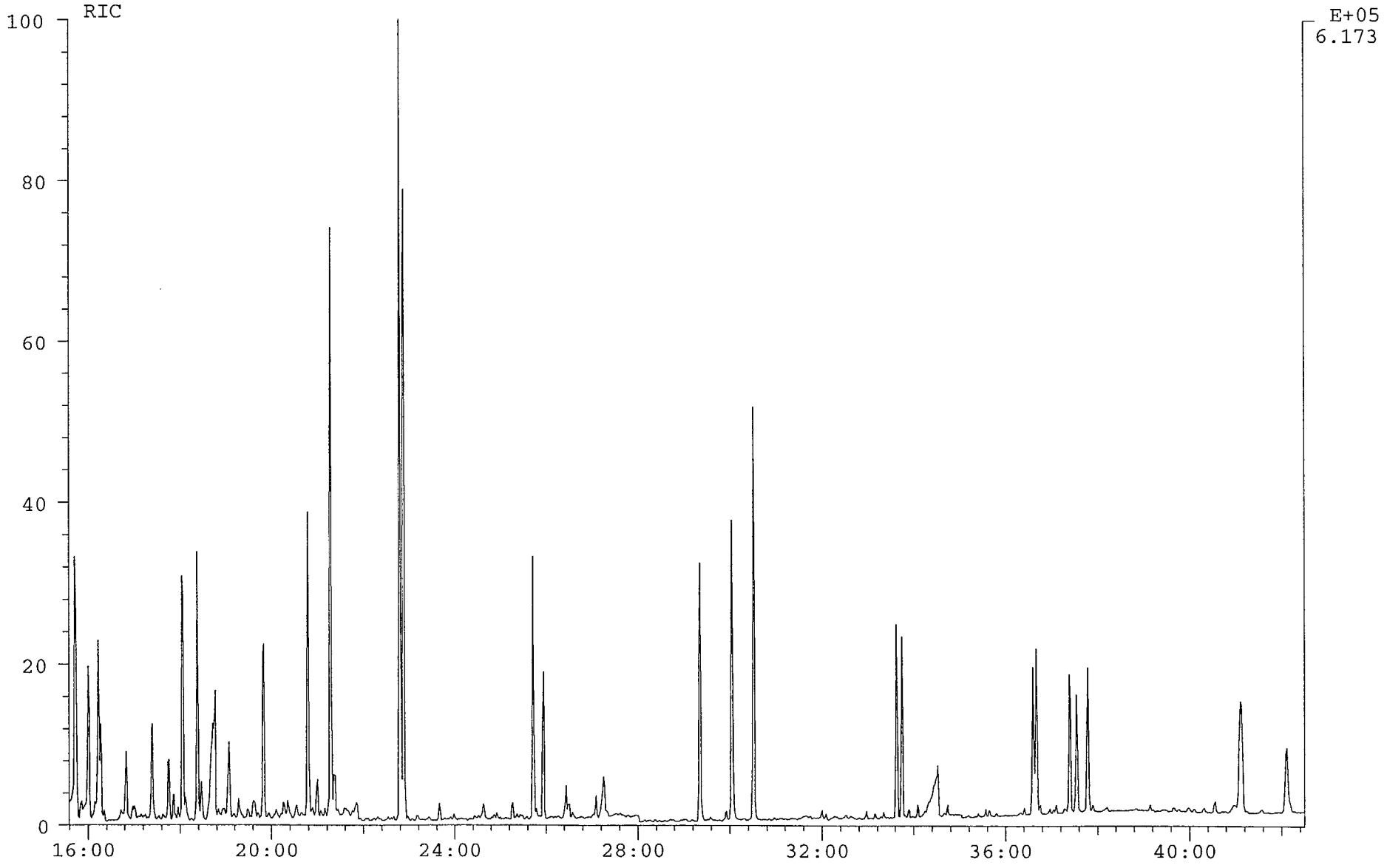
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
268					268.0000		268.0000				
	Noise	00:00	00:00	0	63		25				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	115		46				
	Indeno(1,2,3-cd)pyrene	41:11	41:09	2	754		235			MBB	M
	Benzo(ghi)perylene	42:11	42:10	1	1621		398			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	73		29				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	40		16				
	Indeno(1,2,3-cd)pyrene-	41:07	41:04	3	209083		55438			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:03	3	151855		38252			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	35		14				
	Dibenz(ah)Anthracene-d1	41:03	41:02	1	112177		28892			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	28		11				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	33		13				

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

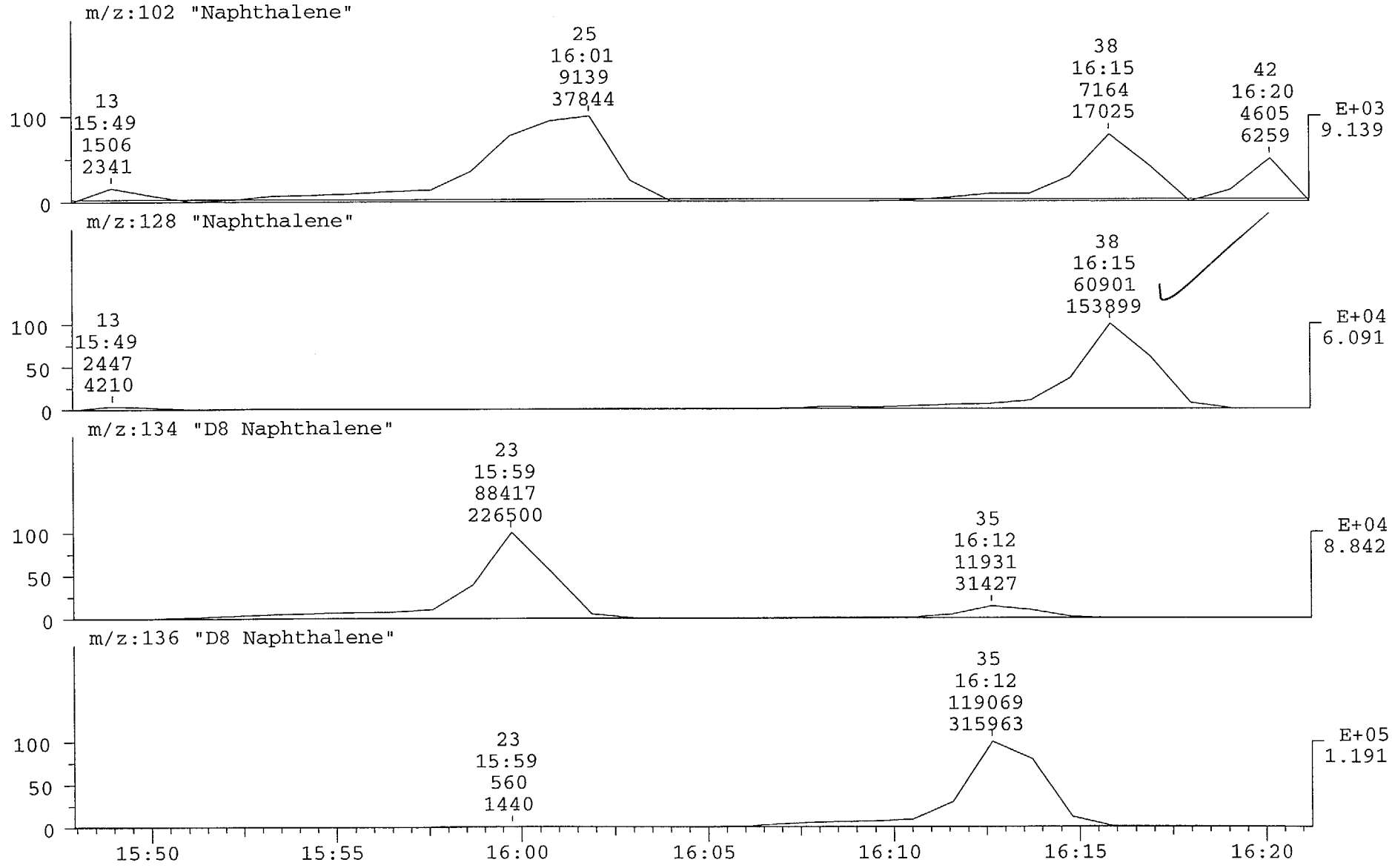
CHRO: yh2h212 27-APR-06 Elapse: 41:00 1327
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 1 > 1384 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : 0, 3.0
Disp: Height Area

Lyt/Calc: J 4/28/06
QC Rev VMK 4/28/06

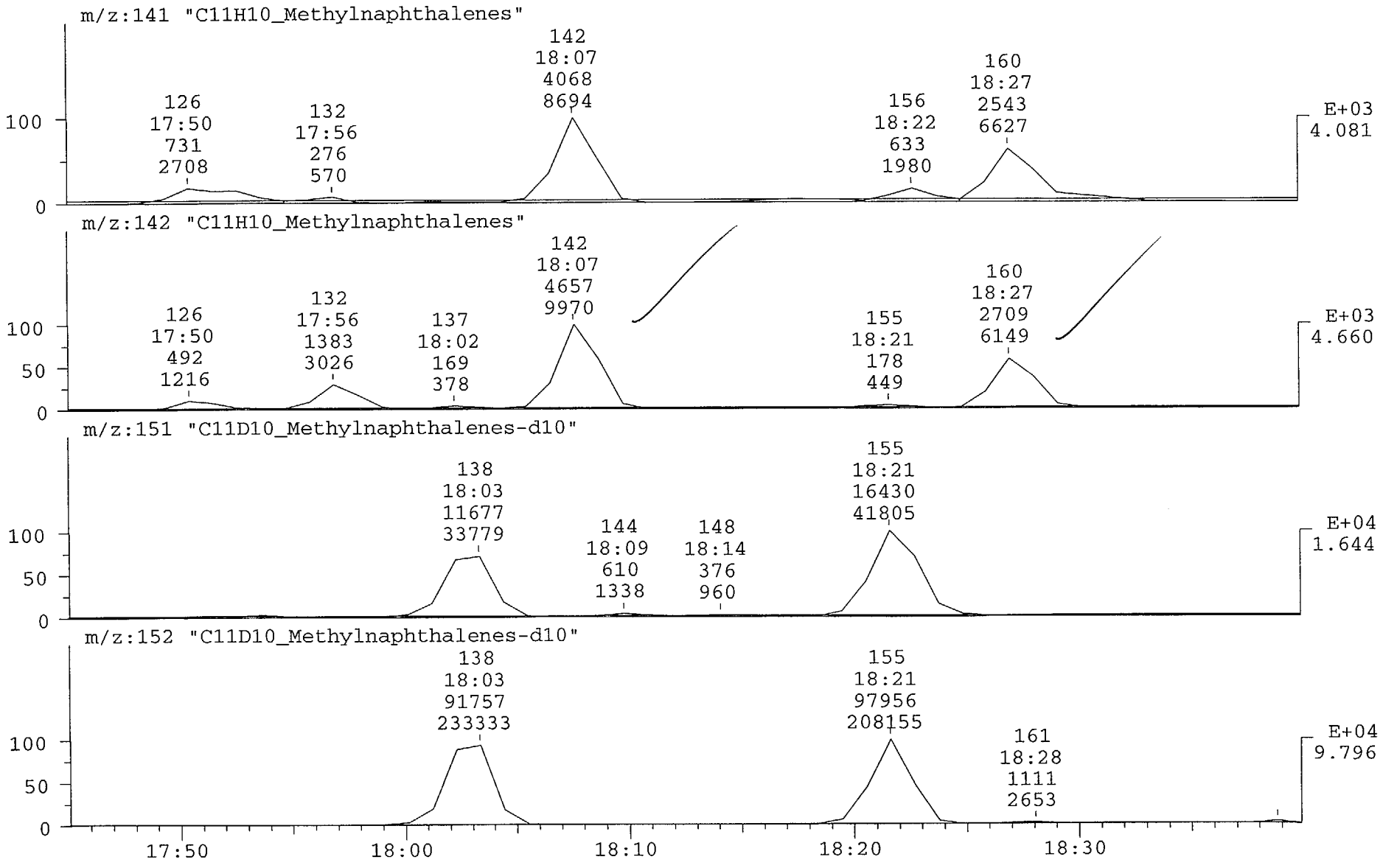


3652

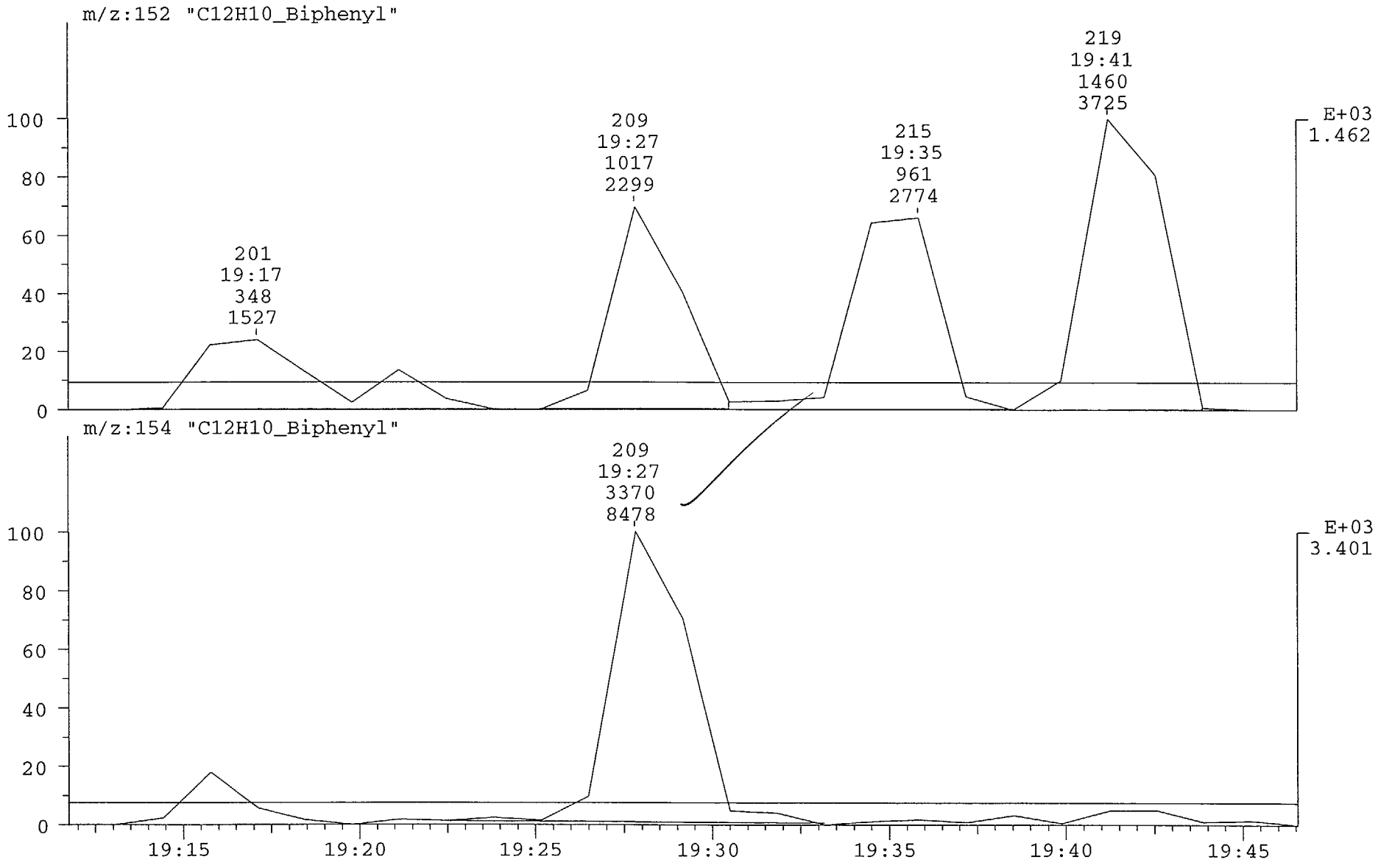
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



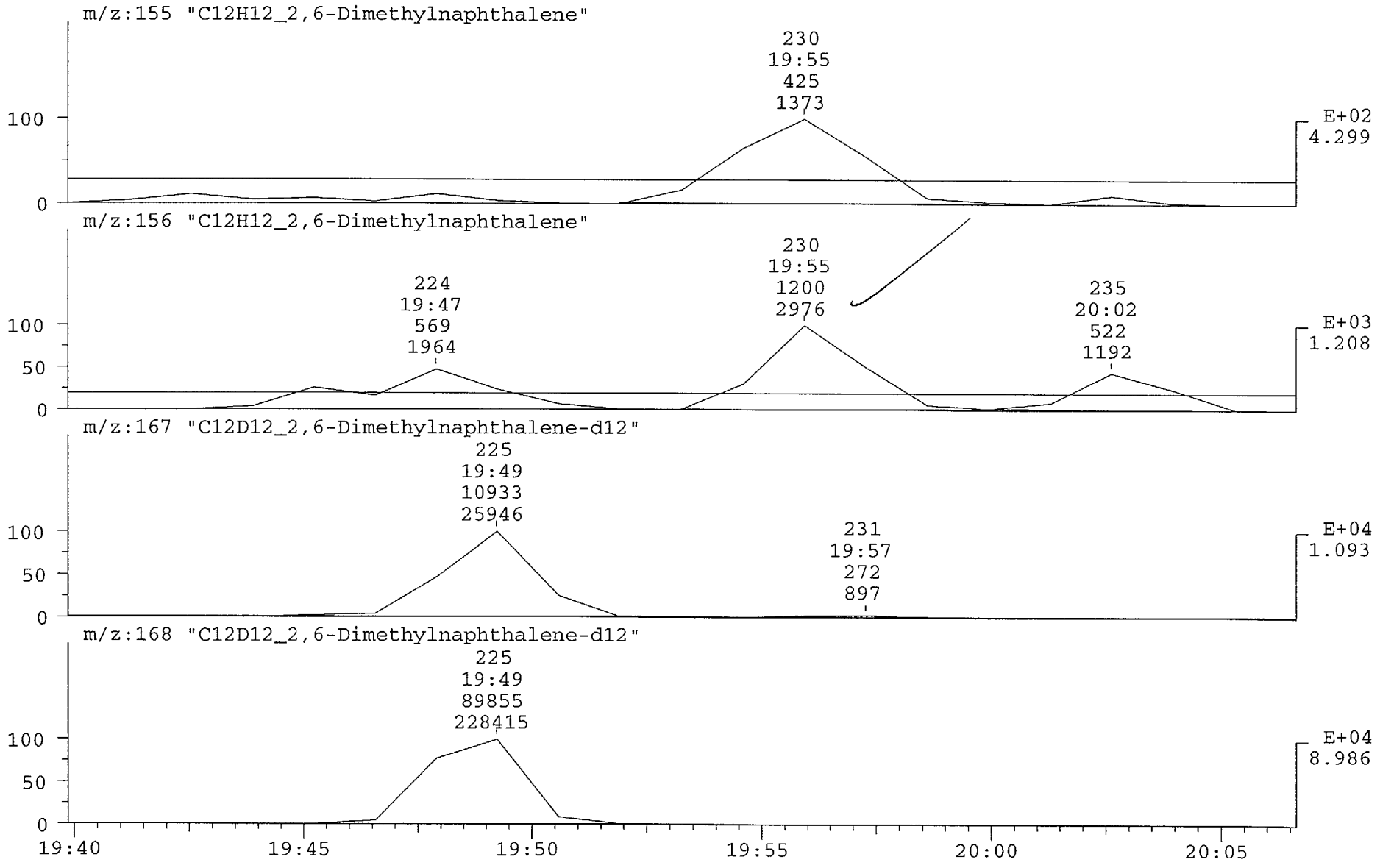
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



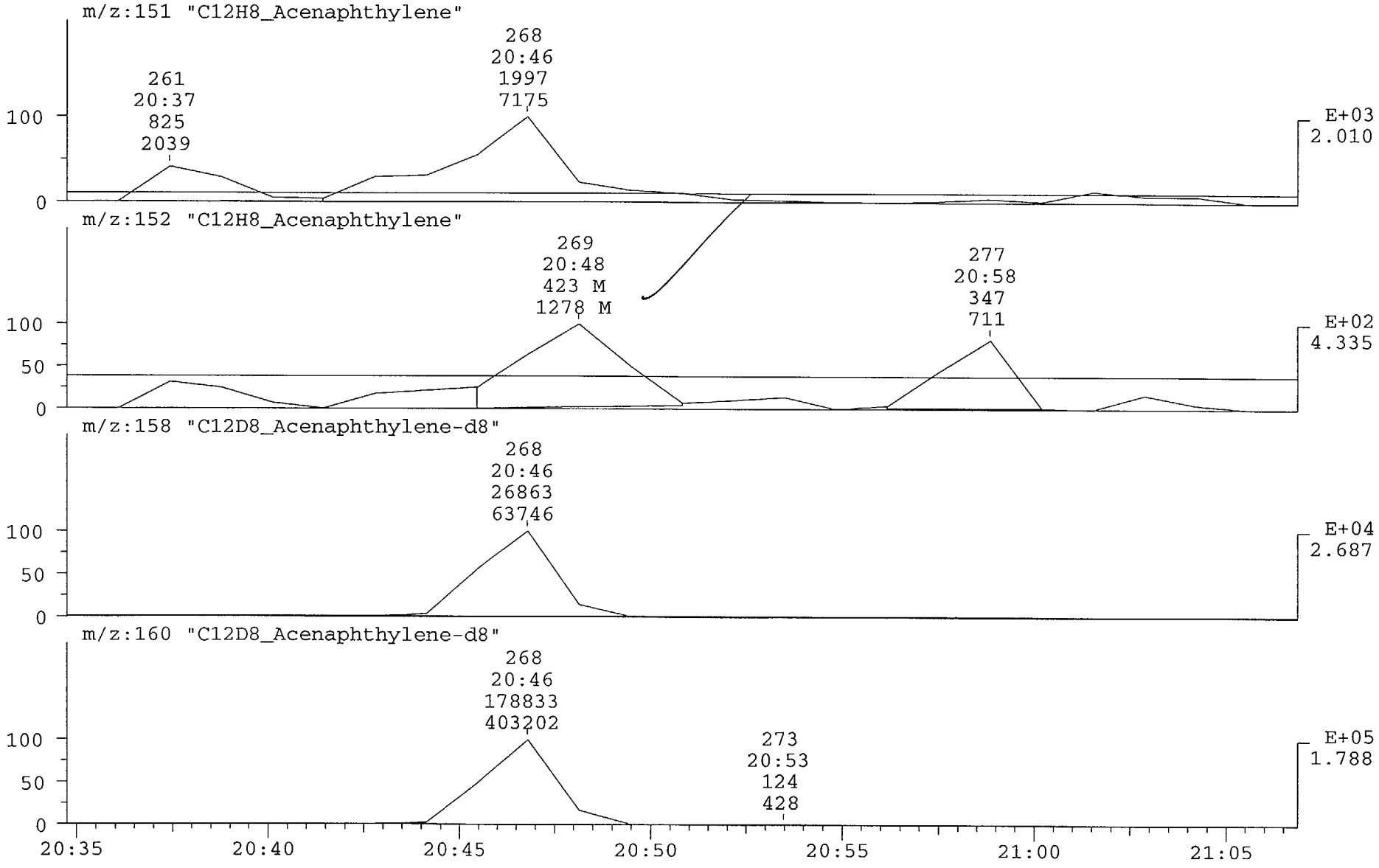
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



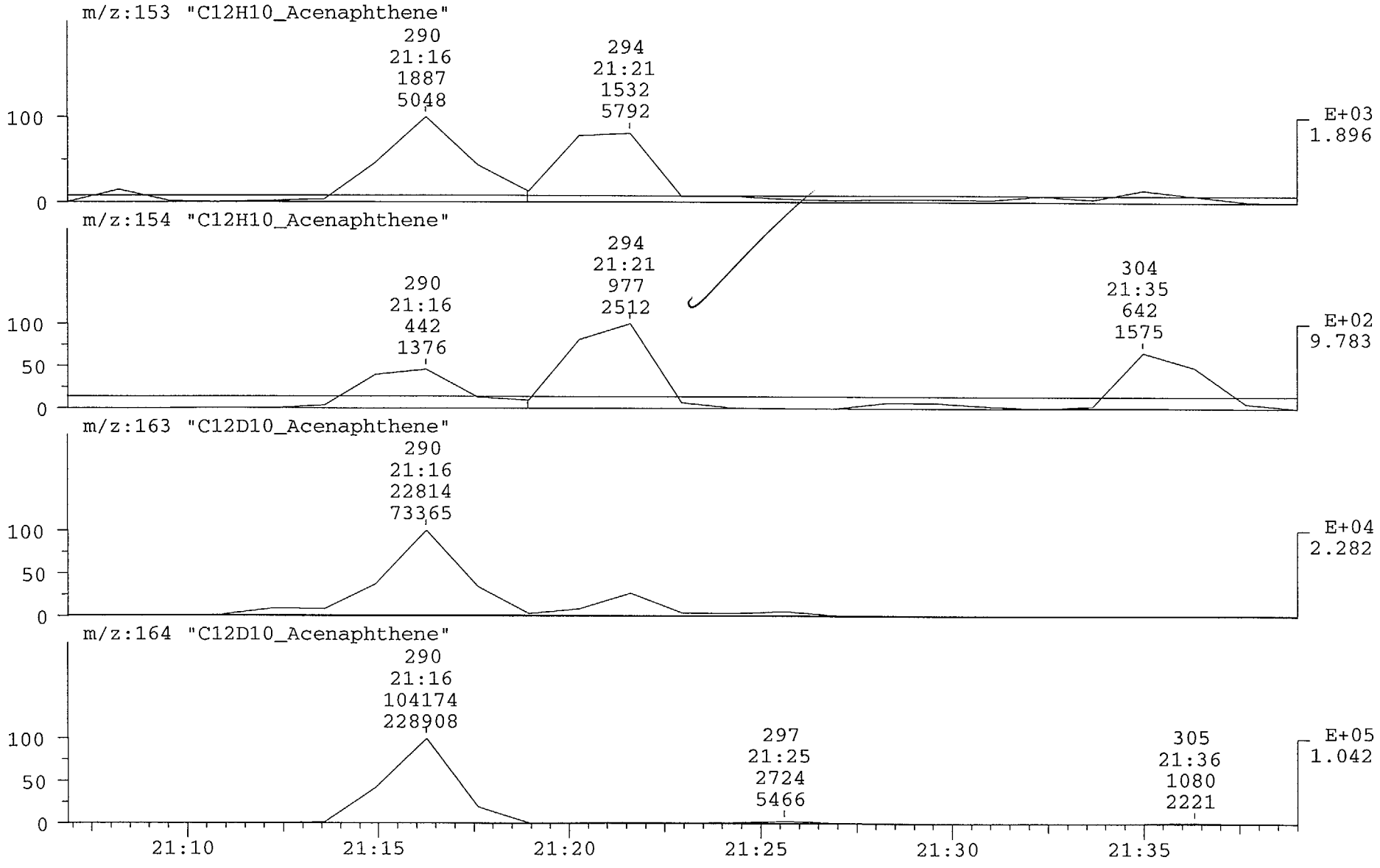
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



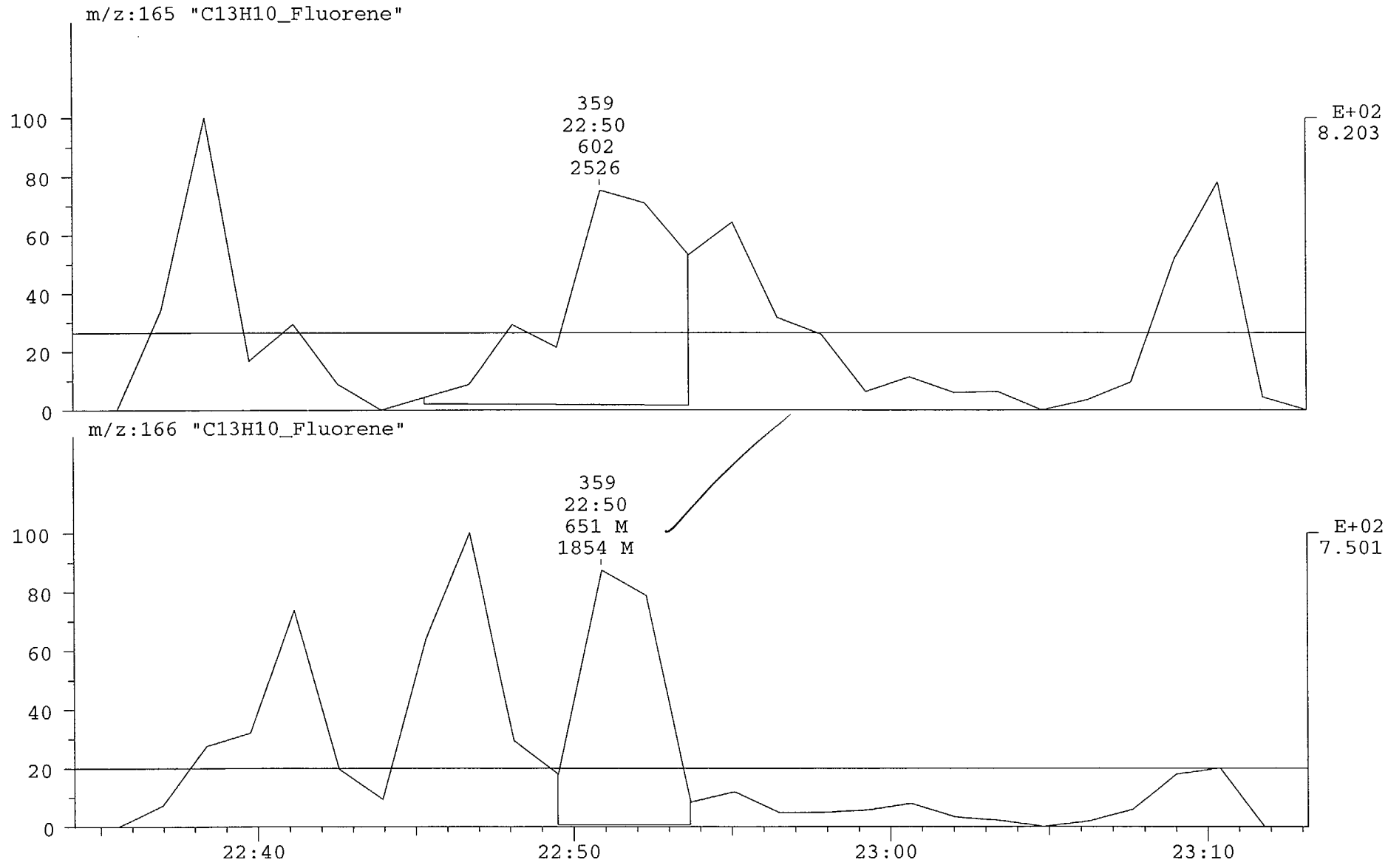
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



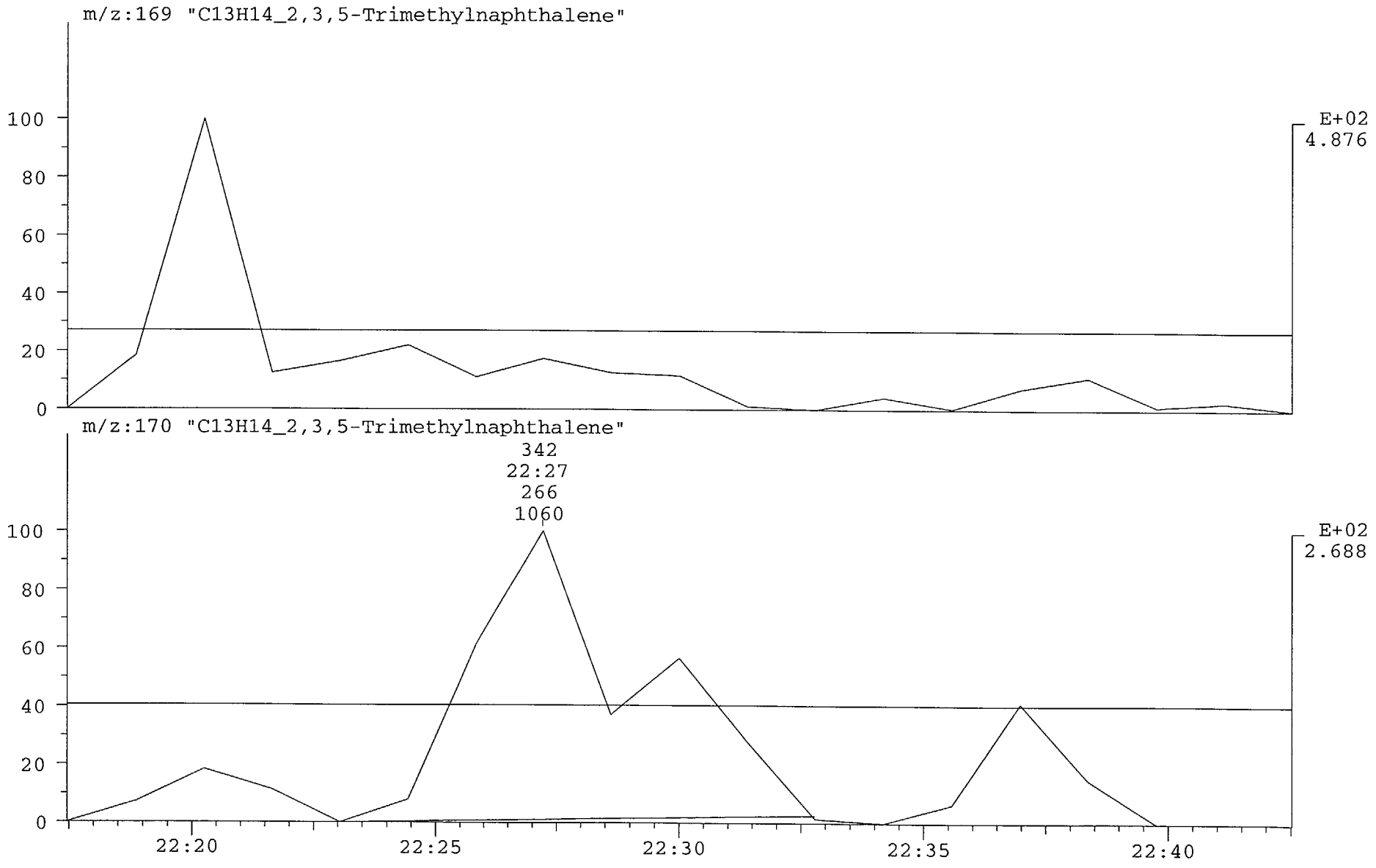
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



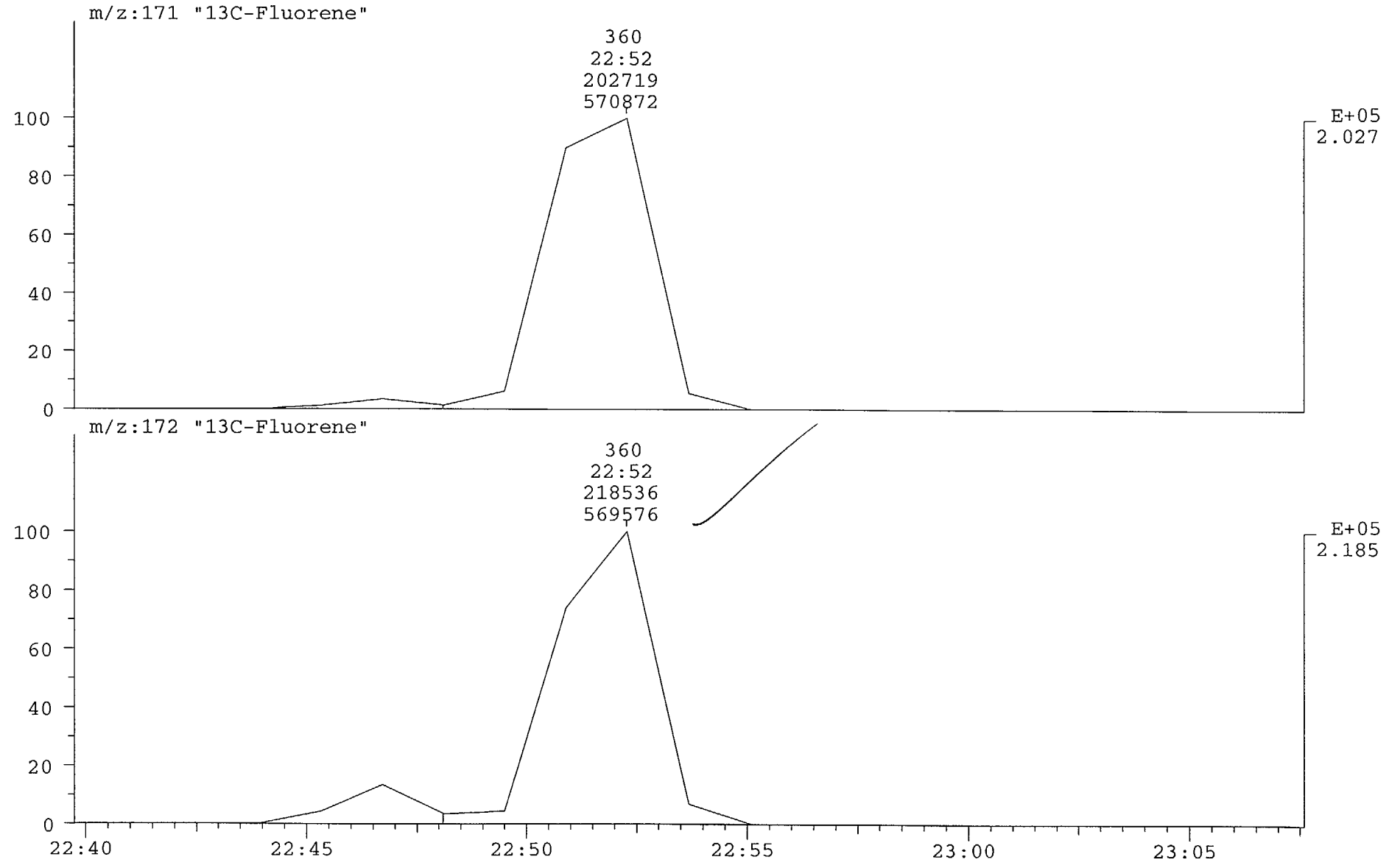
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



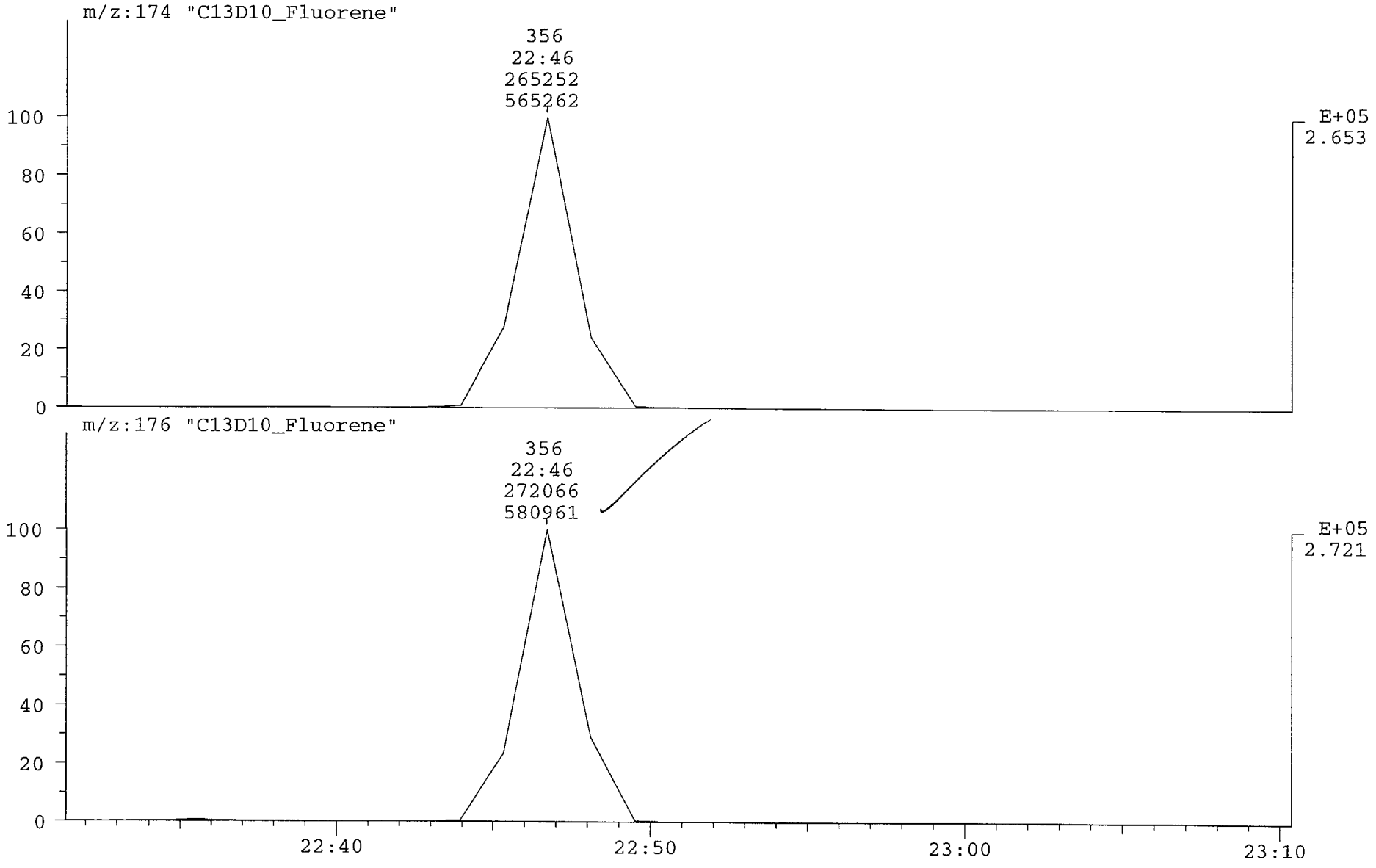
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



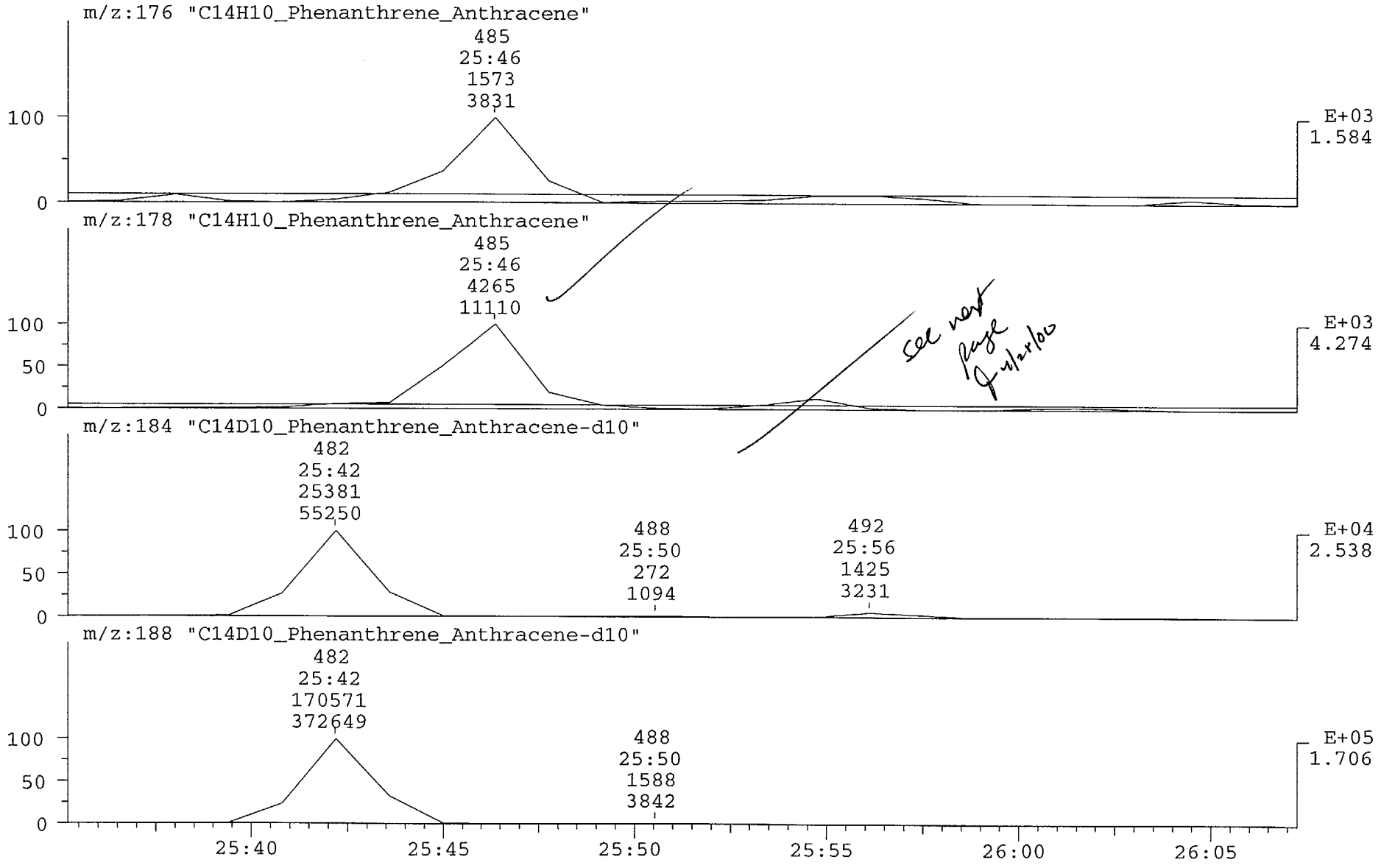
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



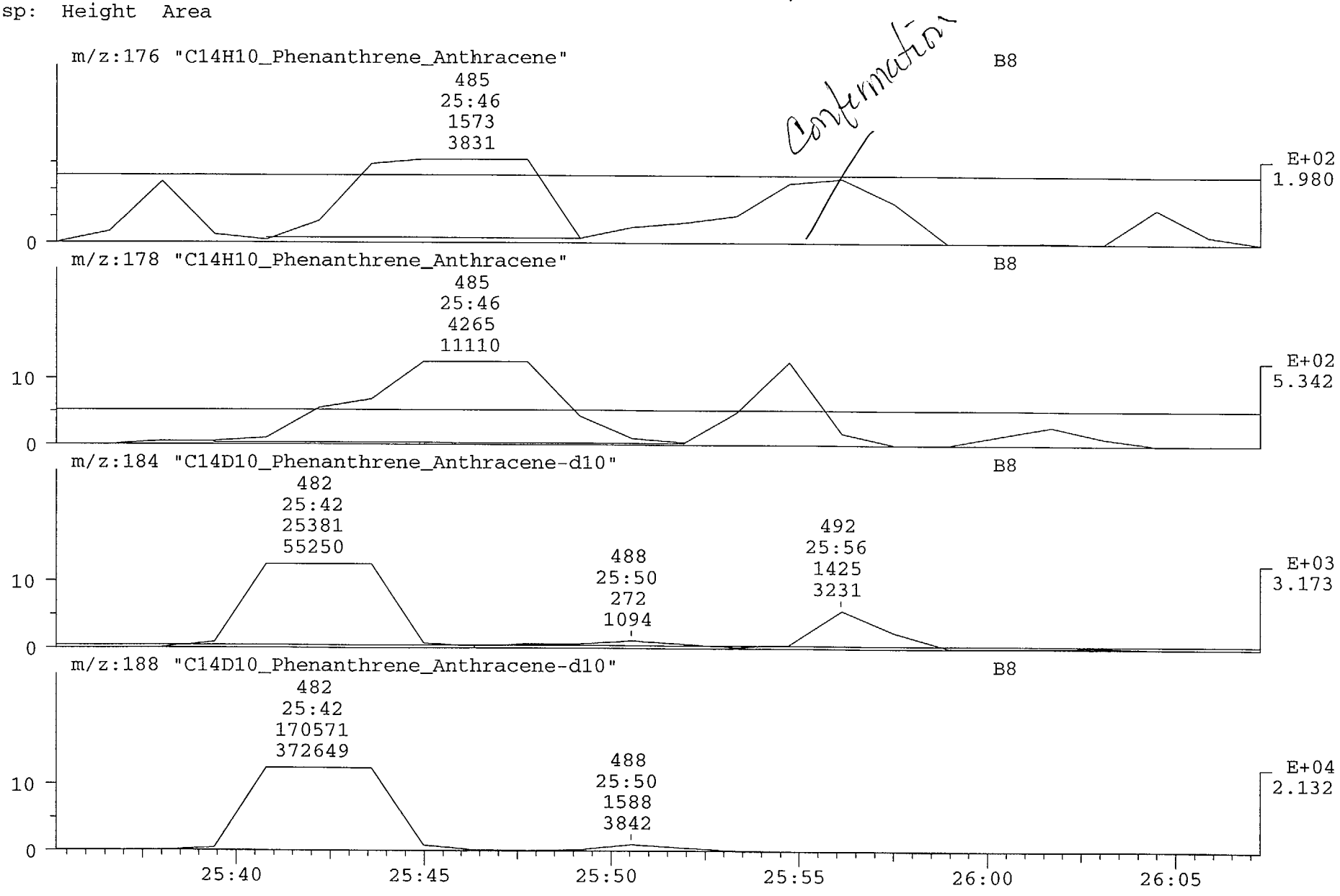
```
CHRO:  yh2h212                                27-APR-06   Elapse:   31:14.6      778
Samp:  WO=h2h211aa Meth=YA1 Dil=1                         Start :   21:28:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100060
Oper:  JMN           Client:  H6D030241-008               Inlet :
Peak:  100.00  ppm     Label wndw:   345 > 373            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1              Label :   -2, 3.0
Disp:  Height  Area
```



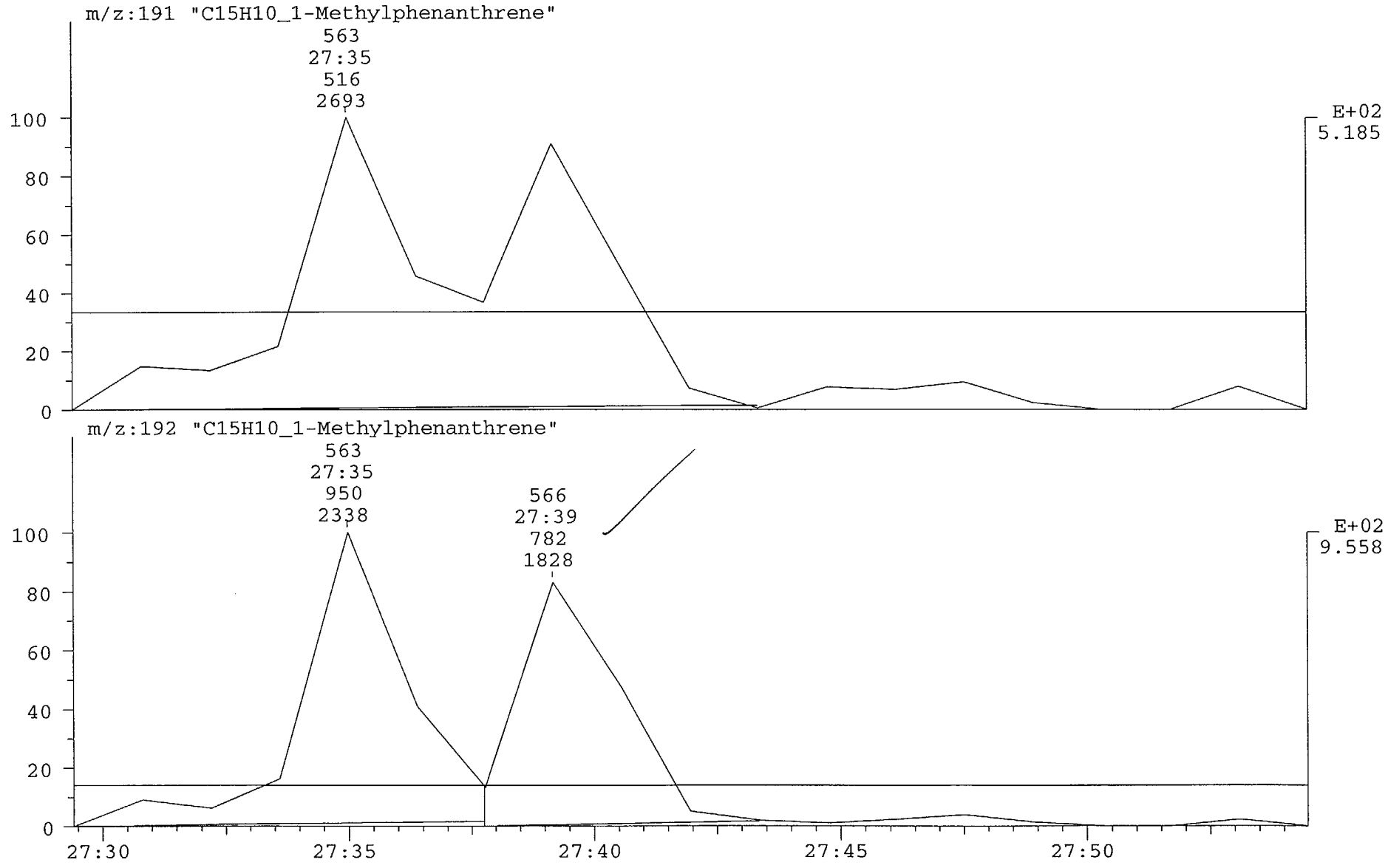
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



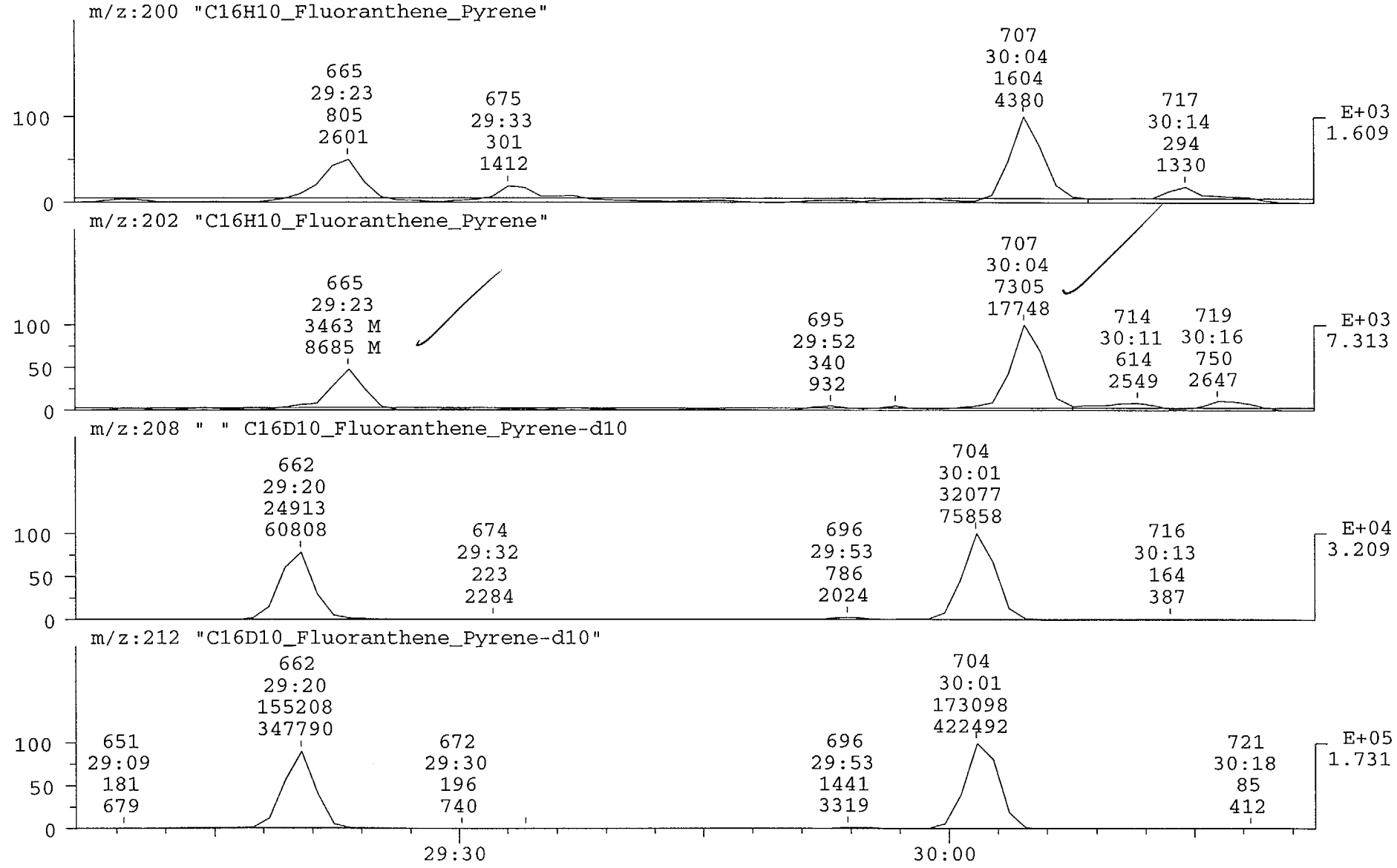
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



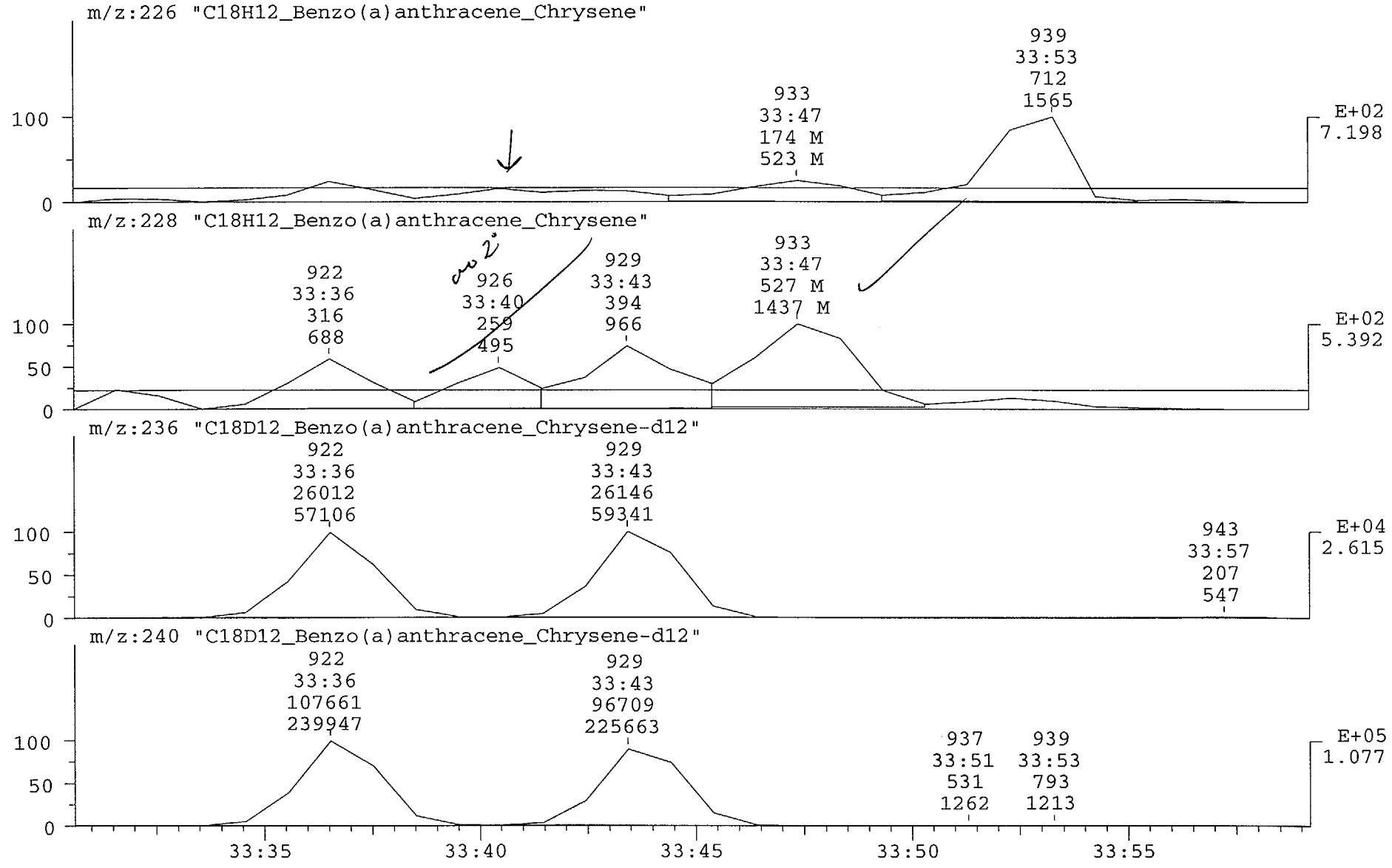
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



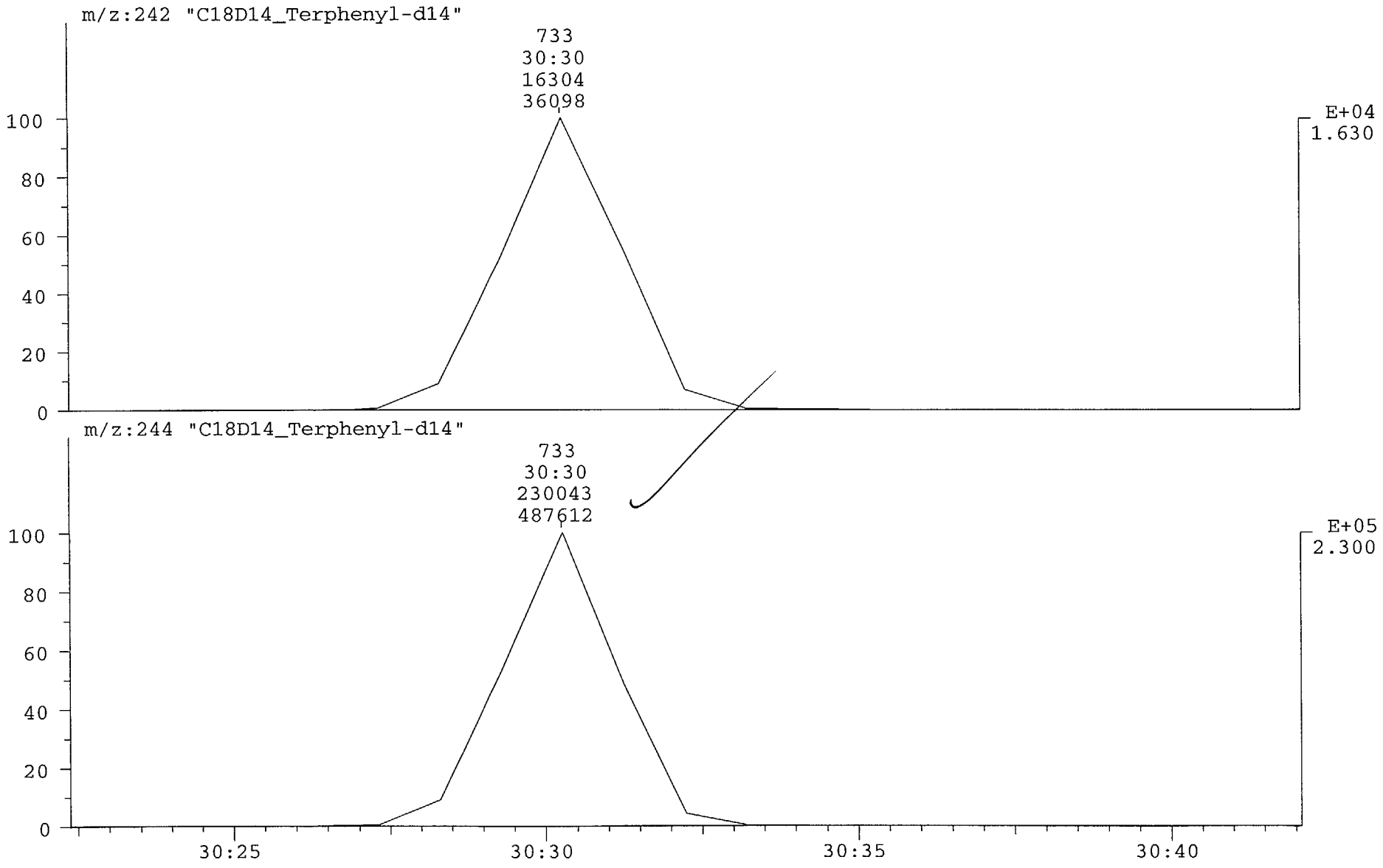
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



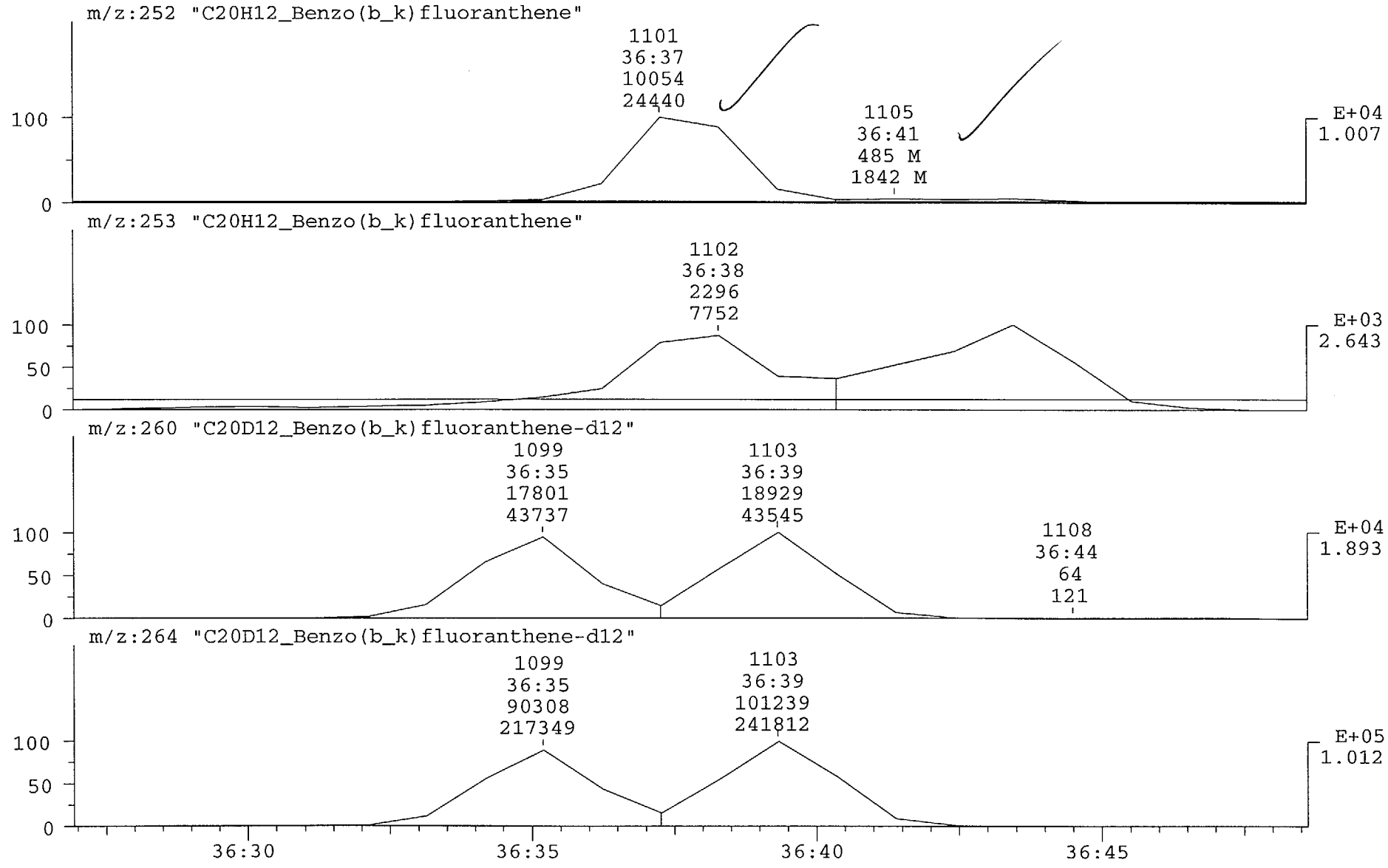
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



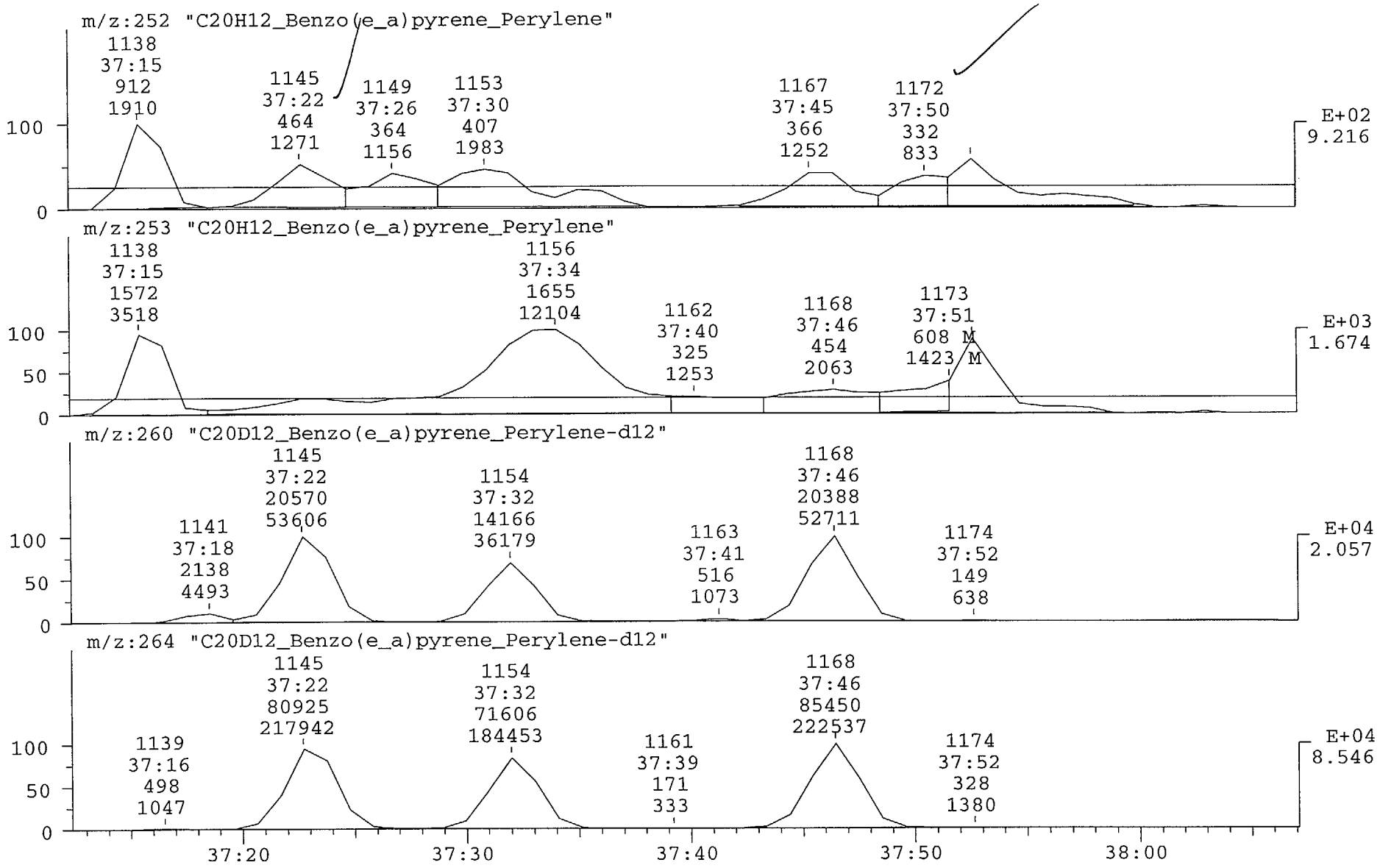
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 725 > 745 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



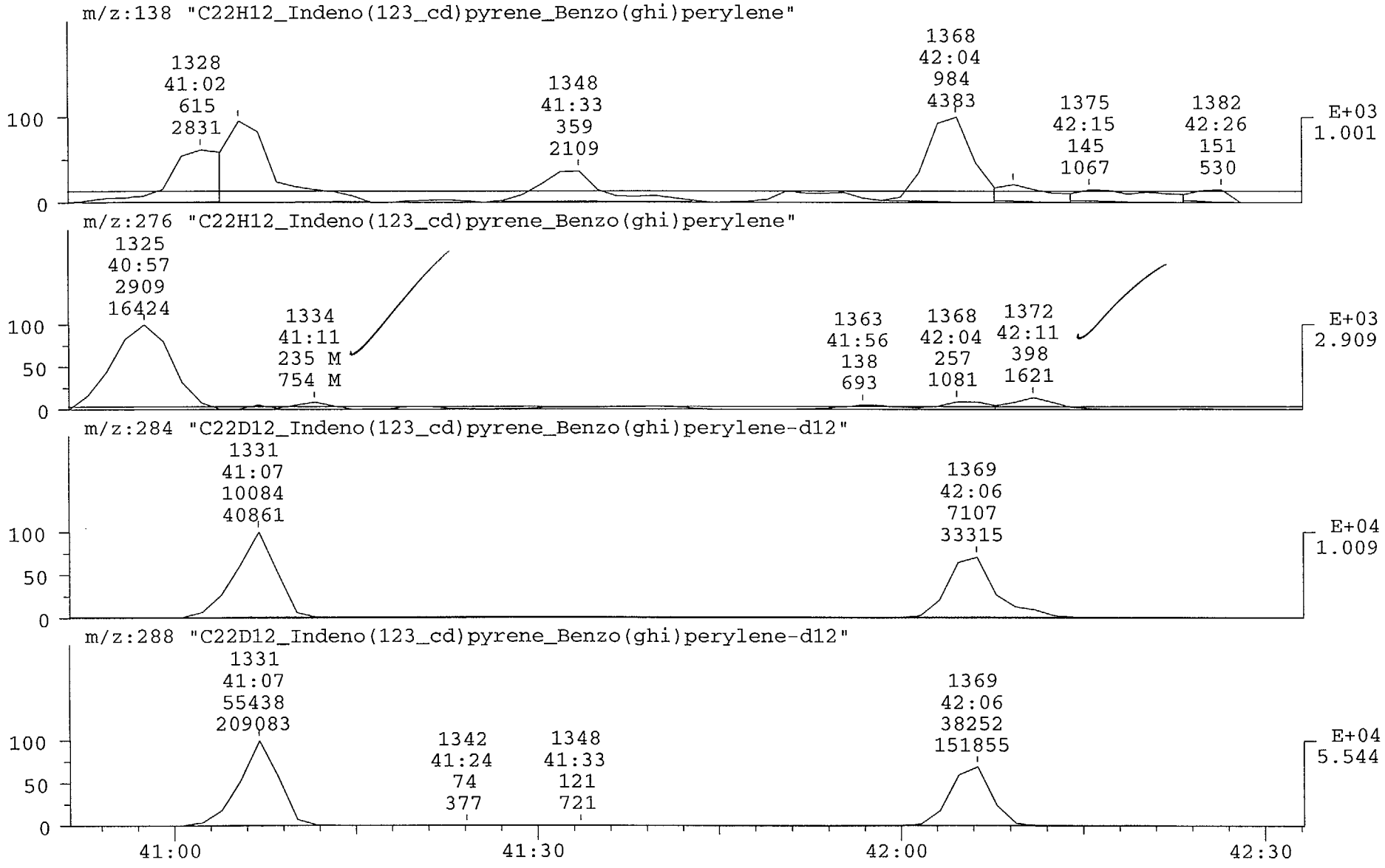
CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



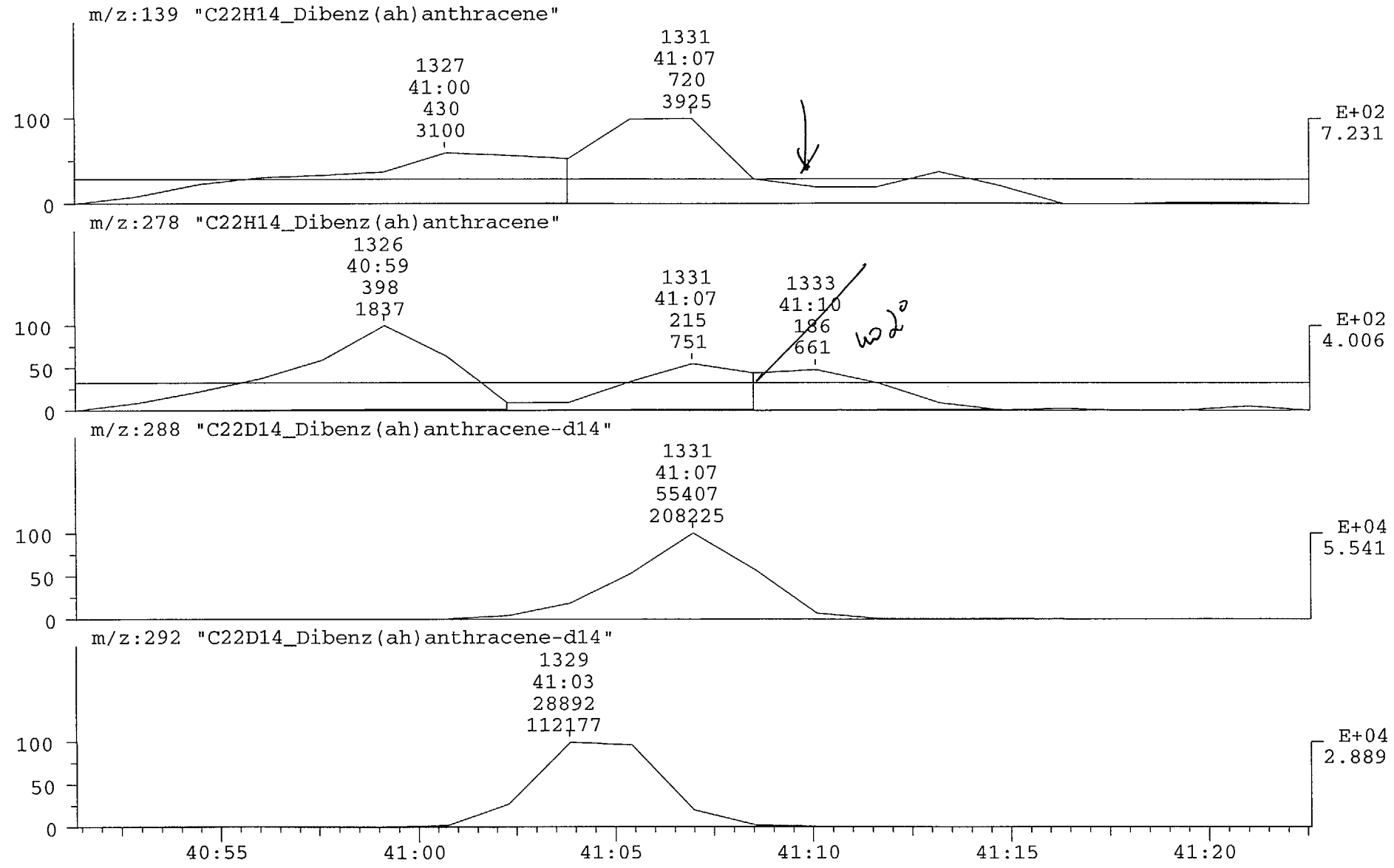
CHRO: yh2h212 27-APR-06 Elapse: 15:36.1 1
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h212 27-APR-06 Elapse: 31:14.6 778
Samp: WO=h2h211aa Meth=YA1 Dil=1 Start : 21:28:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-008 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2H212.D
Date Acquired: 27 Apr 2006   9:28 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H211AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  20
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Thu Apr 27 22:54:57 2006
d:\cdffiles\YH2H212.CDF Translated at Thu Apr 27 22:54:57 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 17:21:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h212.dat
NetCDF File (input): /usr/users/hp/data/yh2h212.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 17:21:01 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	**Work Order #....:**	H2H221AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**1.4**	**J**	**20**	**0.94**	**ng/sampl**
Acenaphthylene	**1.9**	**J**	**20**	**0.35**	**ng/sampl**
Anthracene	**3.9**	**J**	**20**	**0.60**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.40	ng/sampl
Benzo(b)fluoranthene	**4.8**	**J**	**20**	**1.1**	**ng/sampl**
Benzo(k)fluoranthene	**9.9**	**J**	**20**	**1.4**	**ng/sampl**
Benzo(ghi)perylene	**13**	**B J**	**20**	**0.73**	**ng/sampl**
Benzo(a)pyrene	**3.5**	**B J**	**20**	**1.7**	**ng/sampl**
Benzo(e)pyrene	**5.0**	**B J**	**20**	**1.4**	**ng/sampl**
Chrysene	**4.4**	**B J**	**20**	**0.44**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.69	ng/sampl
Fluoranthene	**26**	**B**	**20**	**0.19**	**ng/sampl**
Fluorene	**3.3**	**J**	**20**	**0.57**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	ND		20	0.77	ng/sampl
2-Methylnaphthalene	**12**	**B J**	**20**	**0.50**	**ng/sampl**
Naphthalene	**24**	**B J**	**20**	**0.41**	**ng/sampl**
Perylene	ND		20	1.6	ng/sampl
Phenanthrene	**51**	**B**	**20**	**0.52**	**ng/sampl**
Pyrene	**19**	**B J**	**20**	**0.19**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	93	15 - 120
2-Methylnaphthalene-d10	93	20 - 120
Acenaphthylene-d8	99	20 - 120
Phenanthrene-d10	106	30 - 120
Fluoranthene-d10	103	30 - 120
Benzo(a)anthracene-d12	104	30 - 120
Chrysene-d12	93	30 - 120
Benzo(b)fluoranthene-d12	107	30 - 120
Benzo(k)fluoranthene-d12	104	30 - 120
Benzo(a)pyrene-d12	103	30 - 120
Perylene-d12	100	30 - 120
Indeno(1,2,3-cd)pyrene-d12	109	30 - 120
Dibenz(ah)anthracene-d14	111	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3040/3041-R2-MM5 IMPINGER COMPOSITE BT B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 009	**Work Order #....:**	H2H221AA	**Matrix....:**	AIR
Date Sampled....:	03/28/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	103	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H221AA	**Prep Batch**	6100063	**Lot No**	H6D030241-009
Data File	/20060418s2/yh2h22.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90214	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	4/19/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	05:16	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09YA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:57	98387	30363	1.748	500.0	466.392378	93.28	466.392378		0.351
Naphthalene	16:01	5762	1492	1.211		24.184372		24.184372	B	0.408
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:03	1823	742	1.269		11.620593		11.620593	BJ	0.504
2-Methylnaphthalene-d10	17:58	61831	25403	1.104	500.0	464.148561	92.83	464.148561		0.598
1-Methylnaphthalene	18:23	948	383	1.365		6.246014		6.246014	BJ	0.547
1-Methylnaphthalene-d10	18:17	55607	21751	0.958	500.0	480.792732	96.16	480.792732		0.689
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl				1.533				ND		0.738
2,6-Dimethylnaphthalene	19:56	660	269	1.249		4.489580		4.489580	J	1.77
2,6-Dimethylnaphthalene-d1	19:47	58832	27112	0.977	500.0	499.124270	99.82	499.124270		0.724
C2 Alkylnaphthalenes				1.249		4.489580		4.489580	J	1.58
Acenaphthylene	20:48	444	175	1.244		1.938112		1.938112	J	0.351
Acenaphthylene-d8	20:46	92113	40099	1.548	500.0	493.029746	98.61	493.029746		0.518
Acenaphthene-d10	21:16	60337	26517	1.000	500.0	500.000000	100.00	500.000000		0.660
Acenaphthene	21:21	198	89	0.762		1.409881		1.409881	J	0.941
2,3,5-Trimethylnaphthalene				1.127				ND		0.695
C3 Alkylnaphthalenes				1.127				ND		0.621
Fluorene d-10				0.837	1000			ND		0.585
Fluorene-C13				0.796	1000			ND		0.470
Fluorene	22:52	569	233	0.915		3.338094		3.338094	J	0.566
Phenanthrene-d10	25:43	93144	43442	0.753	500.0	531.741385	106.35	531.741385		0.377
Phenanthrene	25:47	11660	5213	1.216		51.458270		51.458270	B	0.520
Anthracene-d10	25:52	78369	32965	0.655	500.0	514.640778	102.93	514.640778		0.434
Anthracene	25:54	768	188	1.059		3.893207		3.893207	J	0.598
1-Methylphenanthrene	27:40	615	304	0.870		3.793367		3.793367	J	0.628
Fluoranthene-d10	29:21	87320	38854	0.727	500.0	516.786271	103.36	516.786271		0.358
Fluoranthene	29:24	5957	2763	1.334		25.574420		25.574420	B	0.193
Pyrene-d10	30:02	116279	52842	1.000	500.0	500.000000	100.00	500.000000		0.260
Pyrene	30:05	4583	1998	1.369		19.171810		19.171810	BJ	0.188
Terphenyl-d14				0.796	1000			ND		0.202
Benzo(a)Anthracene-d12	33:36	62960	25889	0.521	500.0	519.645109	103.93	519.645109		0.772
Benzo(a)anthracene				1.454				ND		0.399
Chrysene-d12	33:44	60187	25008	0.557	500.0	464.867953	92.97	464.867953		0.722
Chrysene	33:48	727	283	1.363		4.431154		4.431154	BJ	0.440
Benzo(b)Fluoranthene-d12	36:35	60829	25990	0.847	500.0	535.824135	107.16	535.824135		0.710
Benzo(k)Fluoranthene-d12	36:39	69761	27731	1.002	500.0	519.269403	103.85	519.269403		0.600
Benzo(b)fluoranthene	36:39	876	355	1.508		4.776125		4.776125	BJ	1.12
Benzo(k)fluoranthene	36:44	1568	675	1.136		9.888674		9.888674	J	1.39
Benzo(e)pyrene-d12	37:23	67007	24936	1.000	500.0	500.000000	100.00	500.000000		0.602
Benzo(e)pyrene	37:27	800	270	1.589		4.961925		4.961925	BJ	1.44
Benzo(a)Pyrene-d12	37:32	50748	19067	0.737	500.0	513.870996	102.77	513.870996		0.816
Benzo(a)pyrene	37:36	476	153	1.333		3.519115		3.519115	BJ	1.72
Perylene-d12	37:46	59499	22690	0.887	500.0	500.806859	100.16	500.806859		0.679
Perylene				1.178				ND		1.64
3-Methylcholanthrene								ND		0.000000

VMK 4/24/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H221AA	**Prep Batch**	6100063	**Lot No**	H6D030241-009
Data File	/20060418s2/yh2h22.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90214	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	4/19/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	05:16	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09YA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	30091	8821	0.405	500.0	554.969257	110.99	554.969257		0.991
Indeno(1,2,3-cd)pyrene-d12	41:07	57064	13687	0.779	500.0	546.584920	109.32	546.584920		0.322
Indeno(1,2,3-cd)pyrene				1.297				ND		0.775
Dibenz(a,h)anthracene				2.059				ND		0.688
Benzo(ghi)Perylene-d12	42:06	41462	11128	0.559	500.0	553.188637	110.64	553.188637		0.448
Benzo(ghi)perylene	42:12	1779	456	1.698		12.633357		12.633357	BJ	0.728
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H221AA	**Prep Batch**	6100063	**Lot No**	H6D030241-009
Data File	/20060418s2/yh2h22.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90214	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	04/19/06 05:16	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	30		12				
	Naphthalene	16:01	16:01	0	5762		1492			ABB	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	33		13				
	Naphthalene-d8	15:57	15:57	0	98387		30363			ABB	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	33		13				
	2-Methylnaphthalene	18:03	18:03	0	1823		742			ABB	M
	1-Methylnaphthalene	18:23	18:23	0	948		383			ABB	M
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	35		14				
	2-Methylnaphthalene-d10	17:58	17:58	0	61831		25403			ABB	
	1-Methylnaphthalene-d10	18:17	18:17	0	55607		21751			ABB	
	Acenaphthylene	20:48	20:48	0	444		175			ABB	
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	58		23				
	Acenaphthene	21:21	21:22	-1	198		89			MVV	
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	120		48				
	2,6-Dimethylnaphthalene	19:56	19:55	1	660		269			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	43		17				
	Acenaphthylene-d8	20:46	20:47	-1	92113		40099			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	38		15				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	35		14				
	Acenaphthene-d10	21:16	21:16	0	60337		26517			ABV	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	45		18				
	Fluorene	22:52	22:52	0	569		233			MVV	
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	38		15				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	58832		27112			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	35		14				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	43		17				
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	33		13				
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	43		17				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H221AA	**Prep Batch**	6100063	**Lot No**	H6D030241-009
Data File	/20060418s2/yh2h22.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90214	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	04/19/06 05:16	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

View Small Peaks? False **View deleted peaks?** False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	55		22				
	Phenanthrene	25:47	25:48	-1	11660		5213			ABV	M
	Anthracene	25:54	25:55	-1	768		188			MVB	M
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	30		12				
	Phenanthrene-d10	25:43	25:44	-1	93144		43442			ABV	
	Anthracene-d10	25:52	25:52	0	78369		32965			AVB	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	48		19				
	1-Methylphenanthrene	27:40	27:41	-1	615		304			AVB	
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene	29:24	29:24	0	5957		2763			MBV	M
	Pyrene	30:05	30:05	0	4583		1998			MBV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	28		11				
	Fluoranthene-d10	29:21	29:21	0	87320		38854			ABV	
	Pyrene-d10	30:02	30:02	0	116279		52842			AVV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	30		12				
	Chrysene	33:48	33:48	0	727		283			MBB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	43		17				
	Benzo(a)Anthracene-d12	33:36	33:36	0	62960		25889			ABV	
	Chrysene-d12	33:44	33:44	0	60187		25008			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	13		5				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	88		35				
	Benzo(b)fluoranthene	36:39	36:39	0	876		355			MBV	M
	Benzo(k)fluoranthene	36:44	36:42	2	1568		675			AVB	
	Benzo(e)pyrene	37:27	37:27	0	800		270			MBB	M
	Benzo(a)pyrene	37:36	37:36	0	476		153			MVV	M
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	30		12				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	60829		25990			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	69761		27731			AVV	
	Benzo(e)pyrene-d12	37:23	37:23	0	67007		24936			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	50748		19067			AVV	
	Perylene-d12	37:46	37:46	0	59499		22690			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	65		26				

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

PAH's by LRMS Extended List

IsoCalc

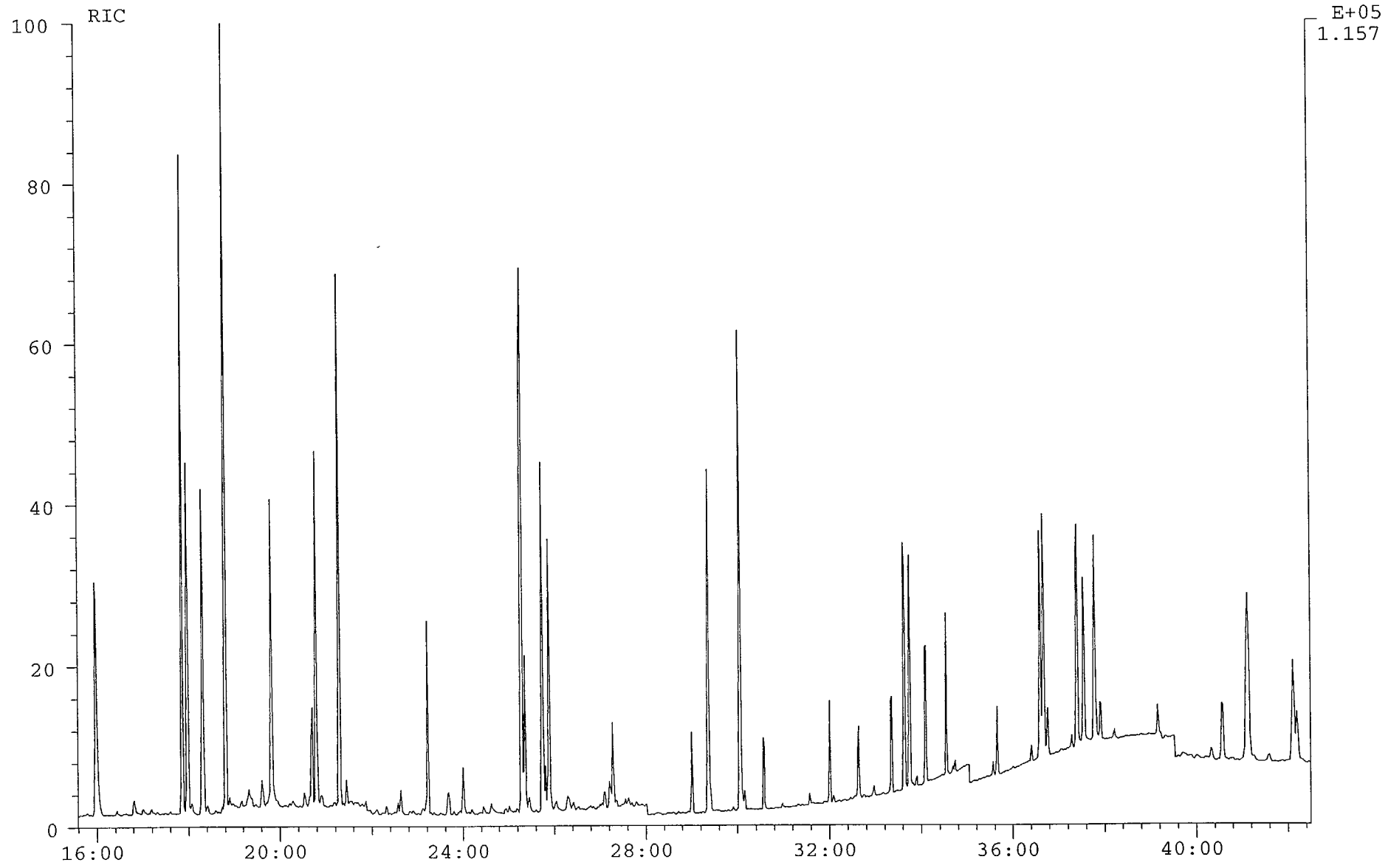
Workorder	H2H221AA	**Prep Batch**	6100063	**Lot No**	H6D030241-009
Data File	/20060418s2/yh2h22.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90214	**Prep Exp Date**	04/18/06	**Date Received**	04/02/06
Analysis Date	04/19/06 05:16	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	28		11				
	Benzo(ghi)perylene	42:12	42:13	-1	1779		456			MBB	M
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	25		10				
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	57064		13687			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	41462		11128			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	20		8				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	30091		8821			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	13		5				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	15		6				

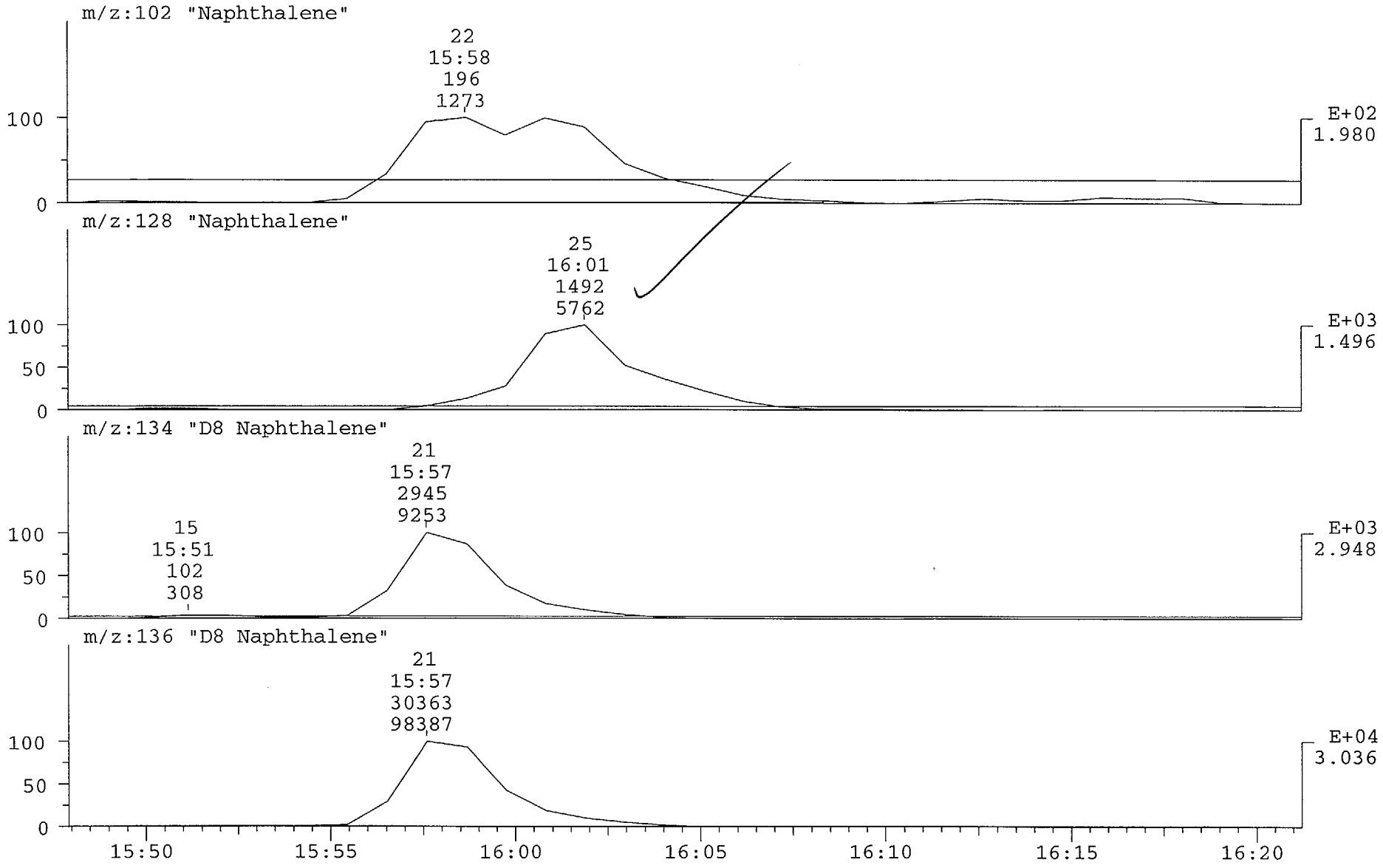
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

```
CHRO:  yh2h22                                  19-APR-06   Elapse:   42:06      1369
Samp:  WO=h2h221aa Meth=YA1 Dil=1                          Start :   05:16:00    1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                    Study :   6100063
Oper:  JMN           Client:  H6D030241-009                Inlet :
Peak:  100.00  ppm     Label wndw:   1365 > 1373           Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :   0, 3.0
Disp:  Height  Area
```

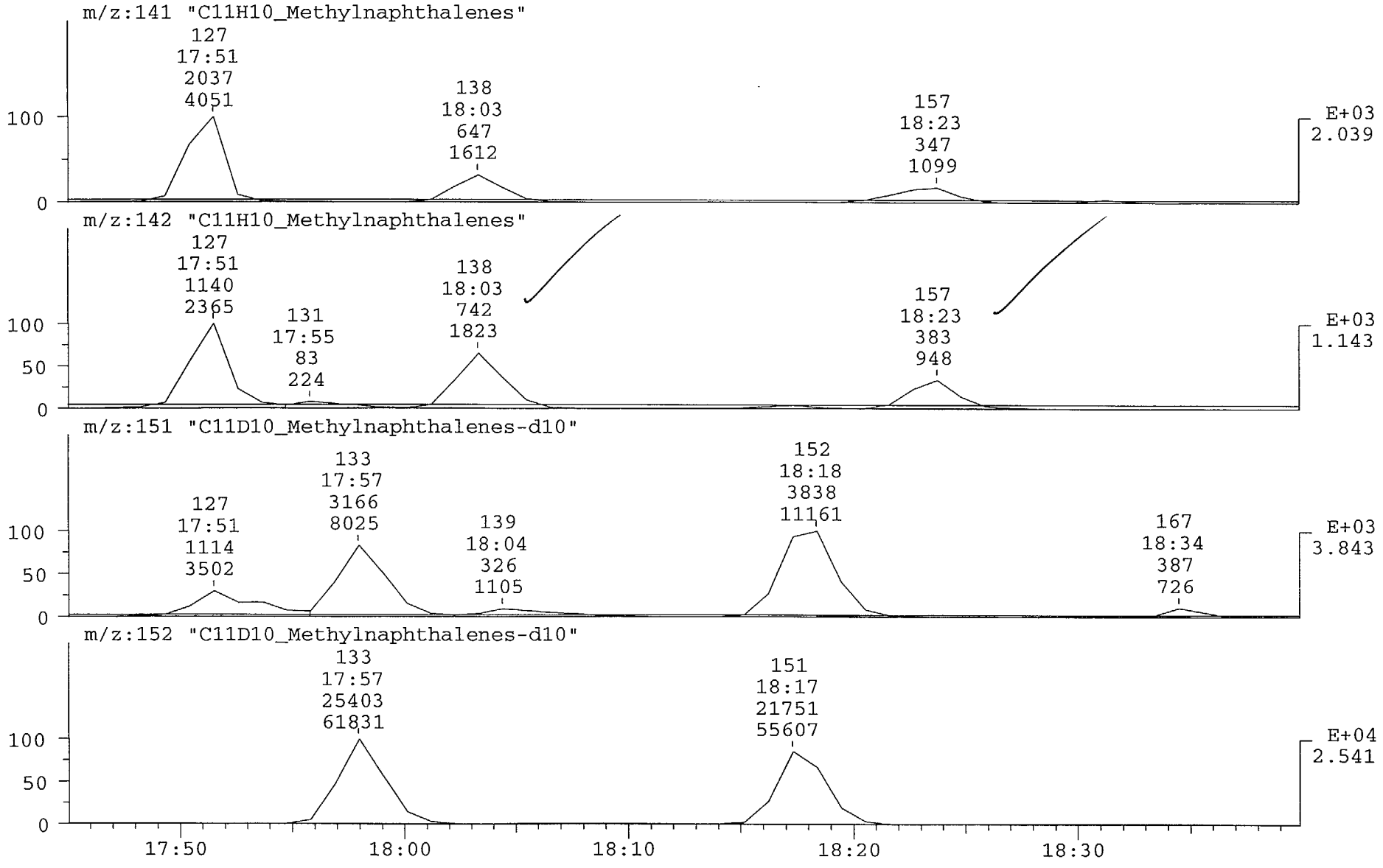
Int/Calc: J 4/24/06
QC/Rev JMN 4/25/06



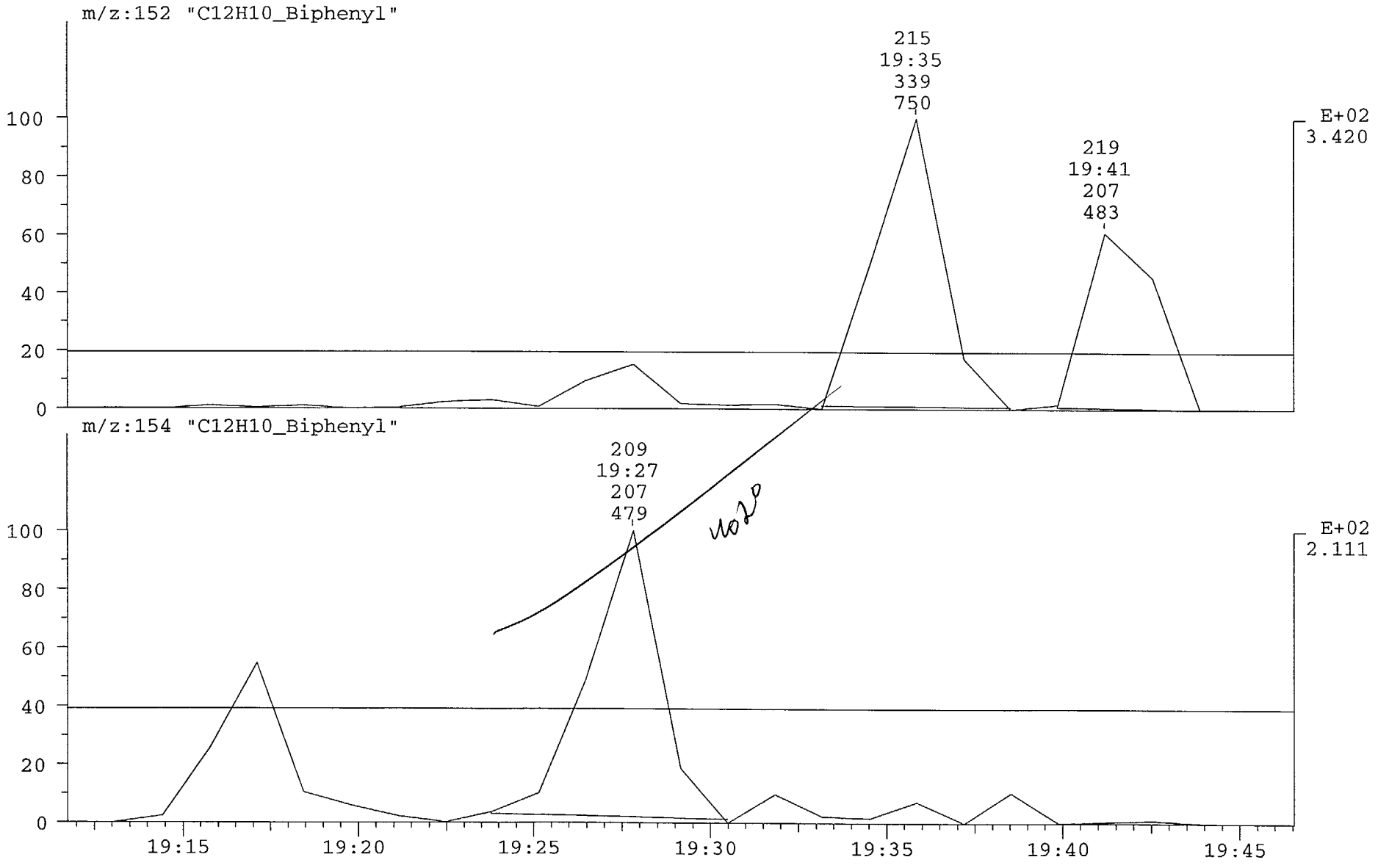
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



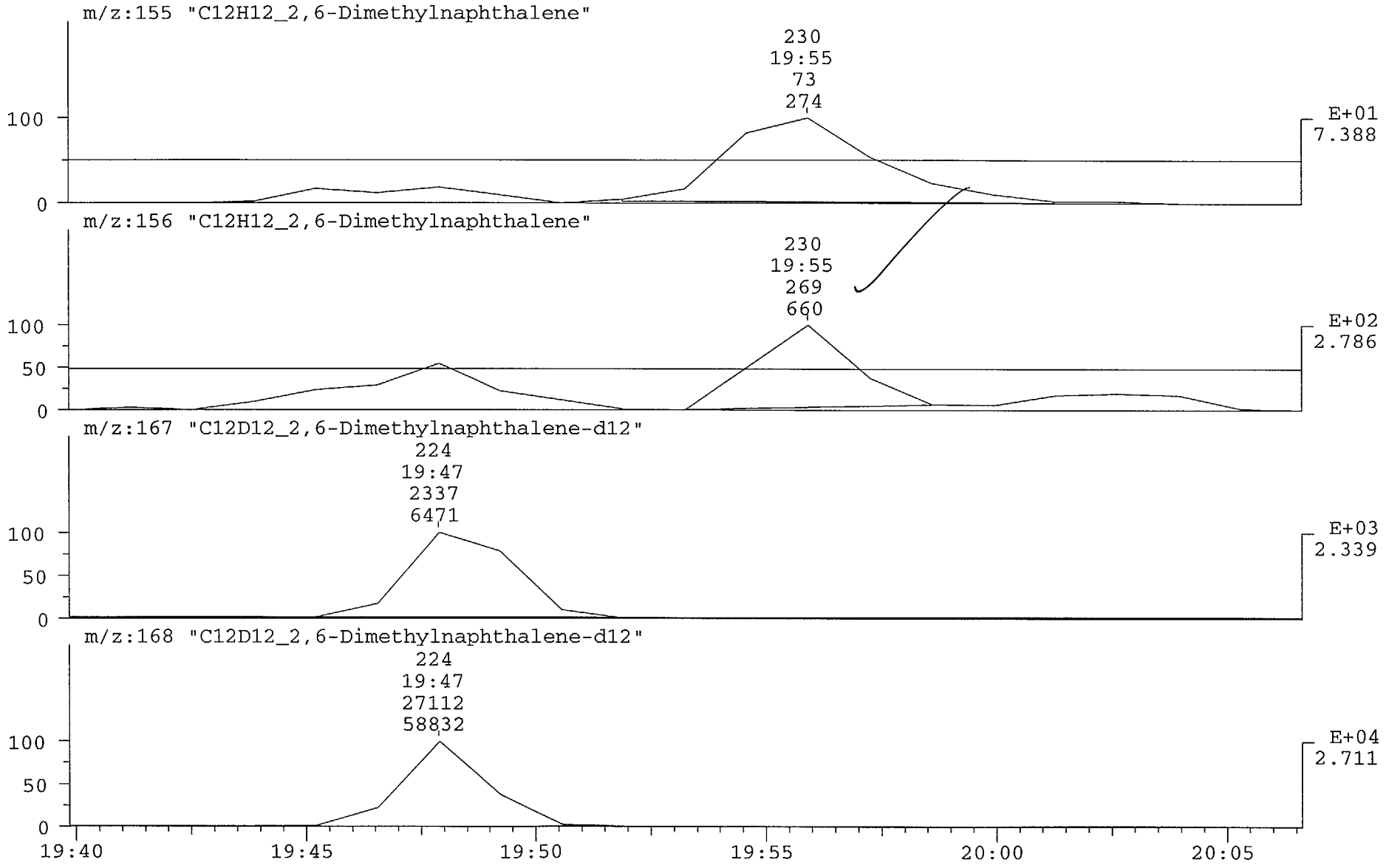
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



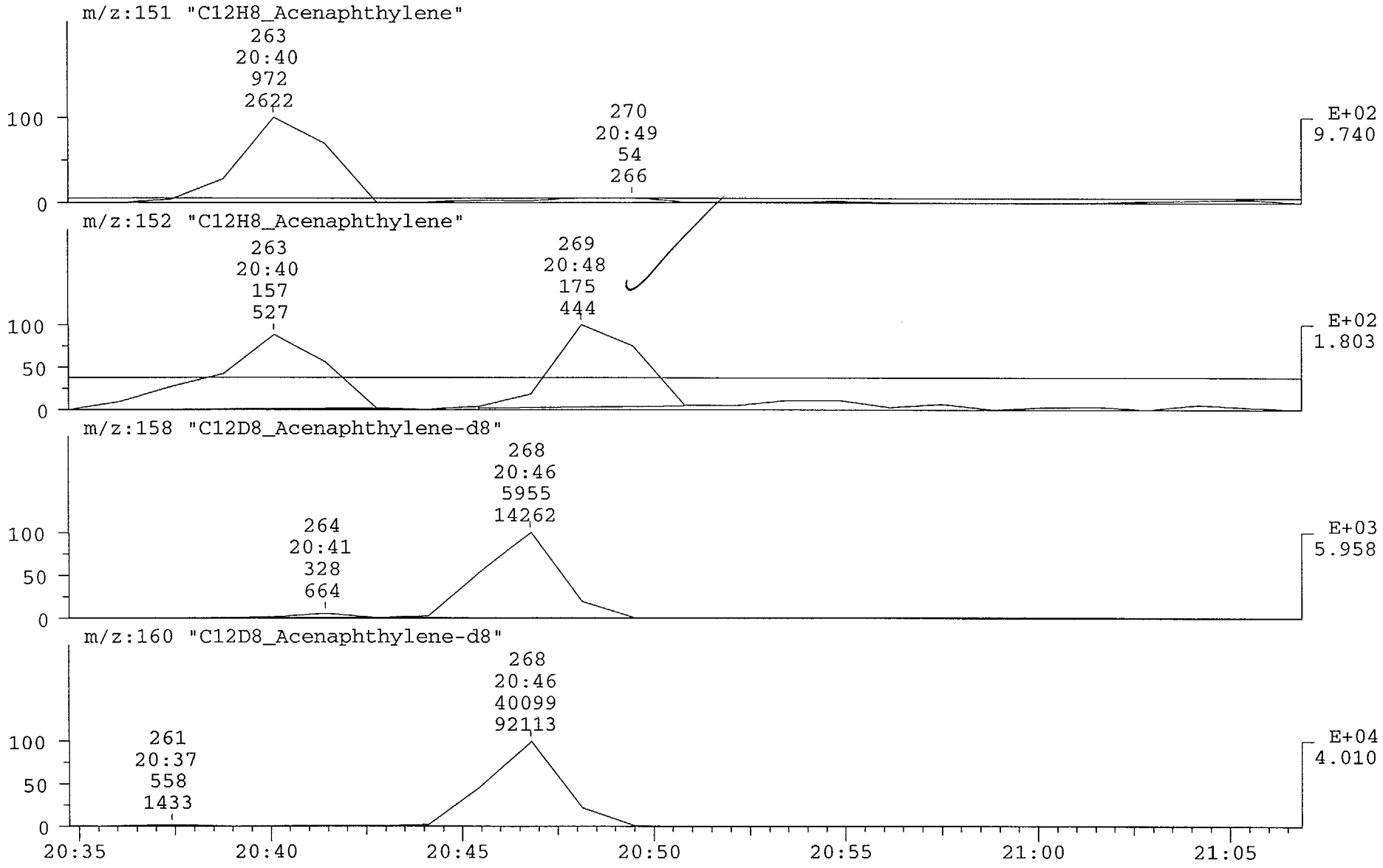
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



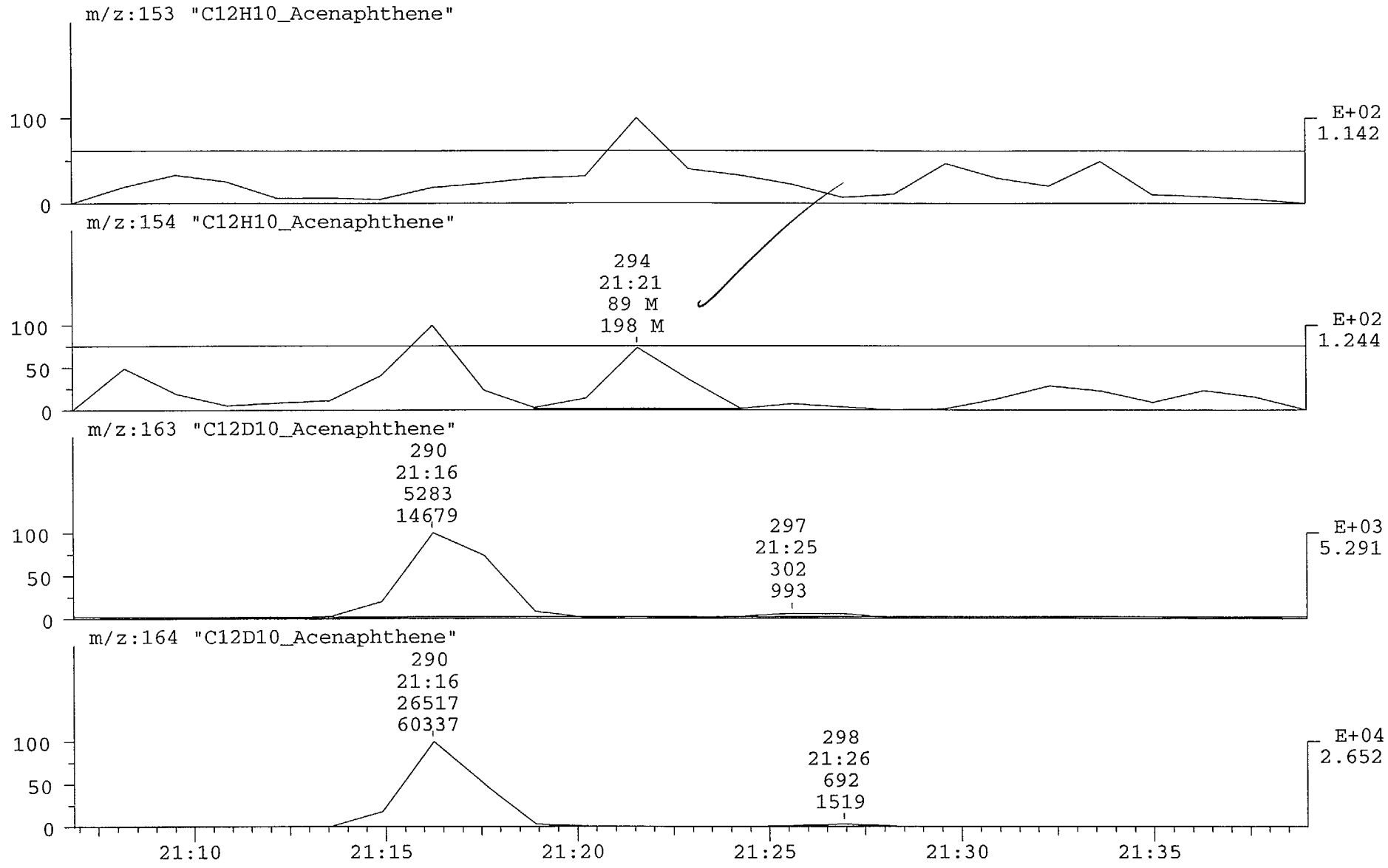
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



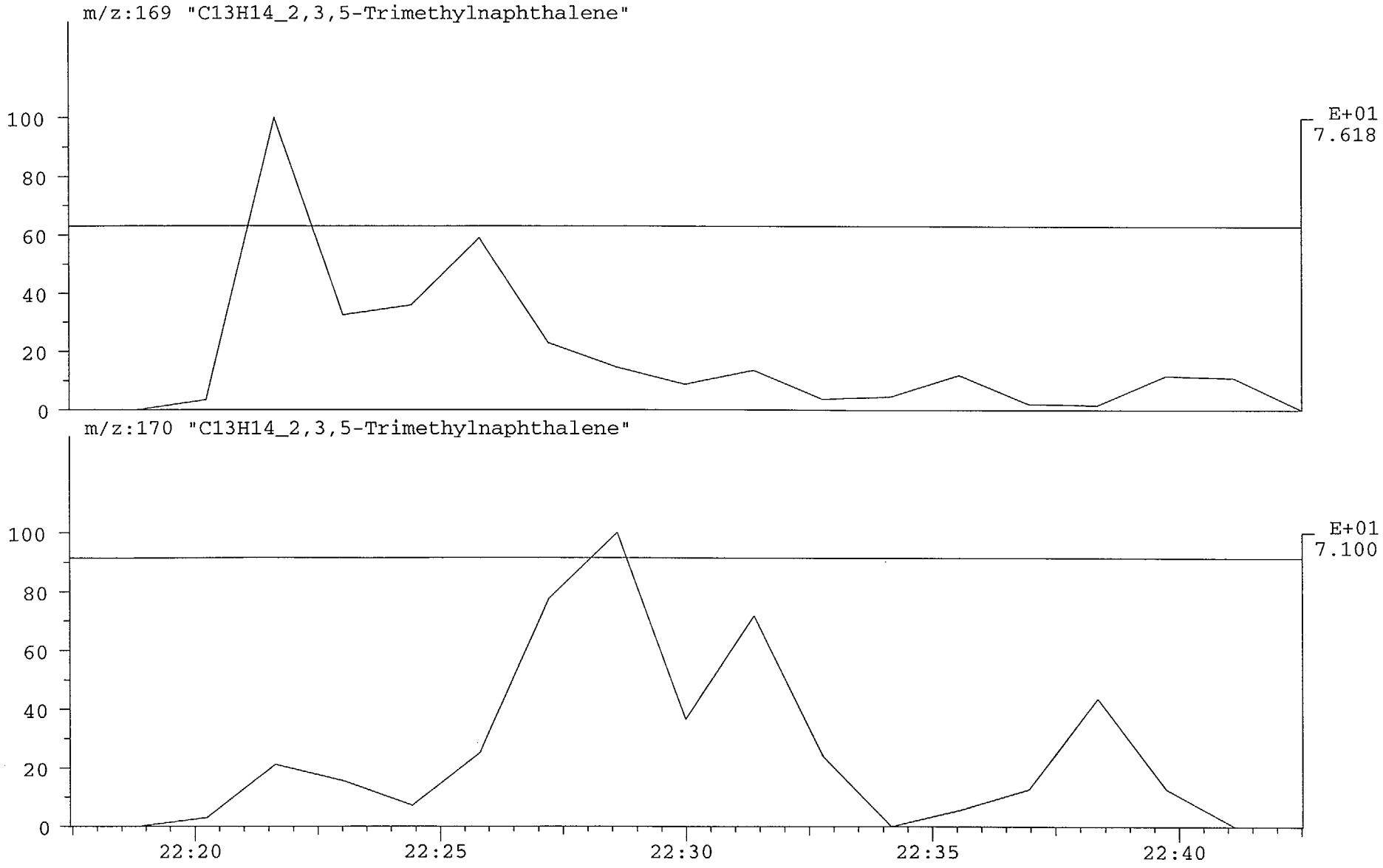
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



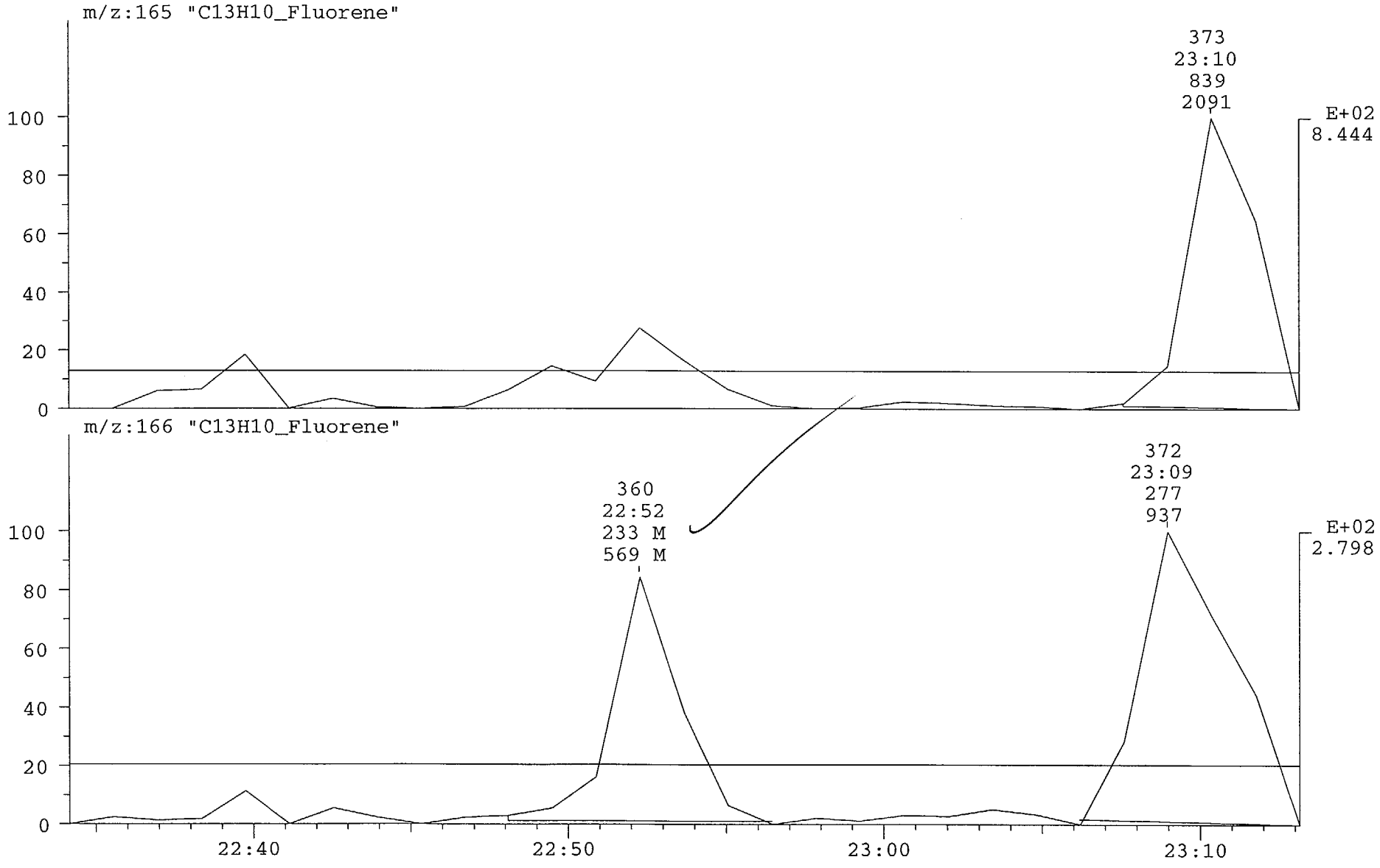
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



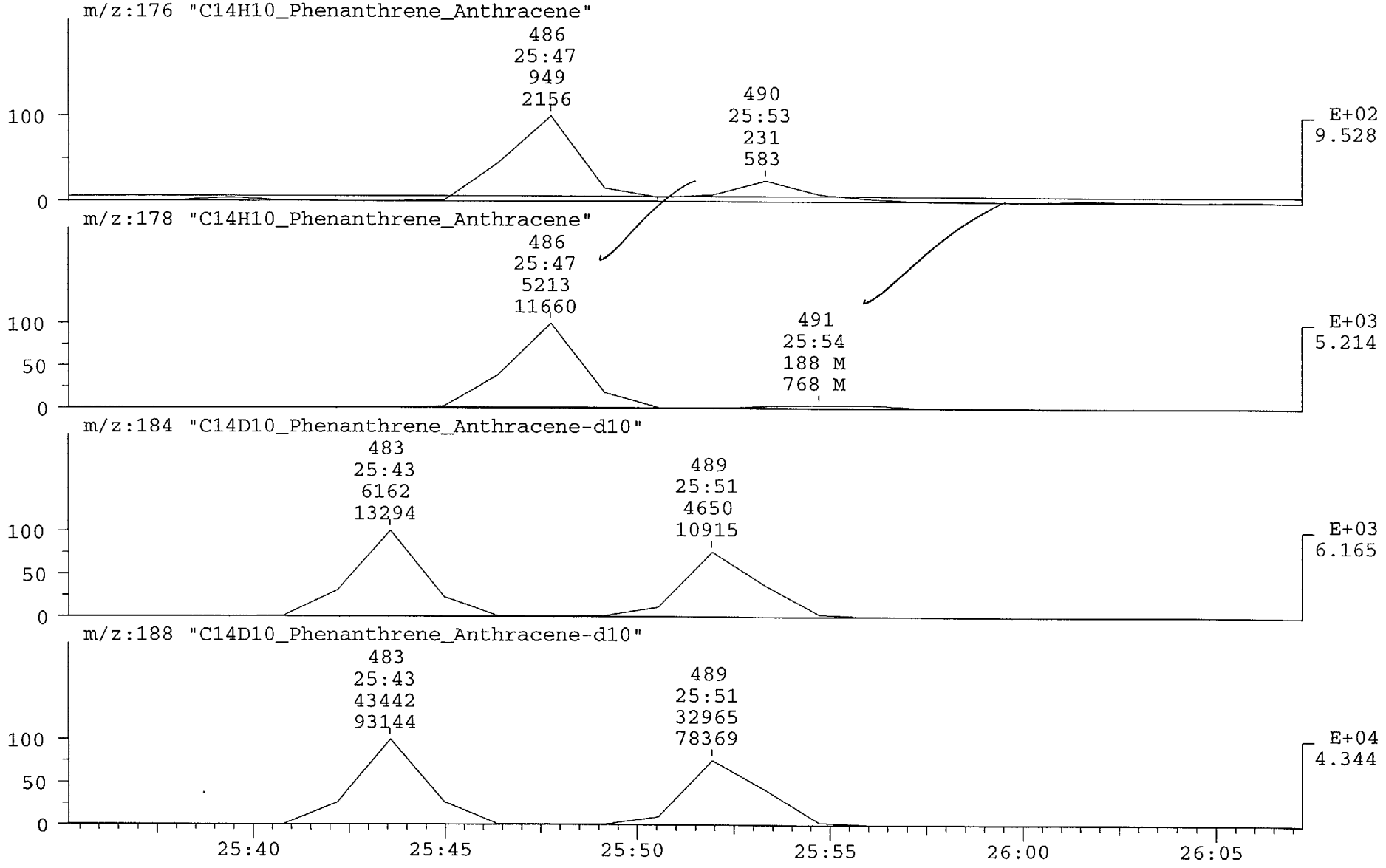
```
CHRO:  yh2h22                                19-APR-06   Elapse:   40:59      1326
Samp:  WO=h2h221aa Meth=YA1 Dil=1                        Start :   05:16:00   1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                  Study :   6100063
Oper:  JMN           Client:  H6D030241-009              Inlet :
Peak:  100.00  ppm     Label wndw:   335 > 353           Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :   -2, 3.0
Disp:  Height  Area
```



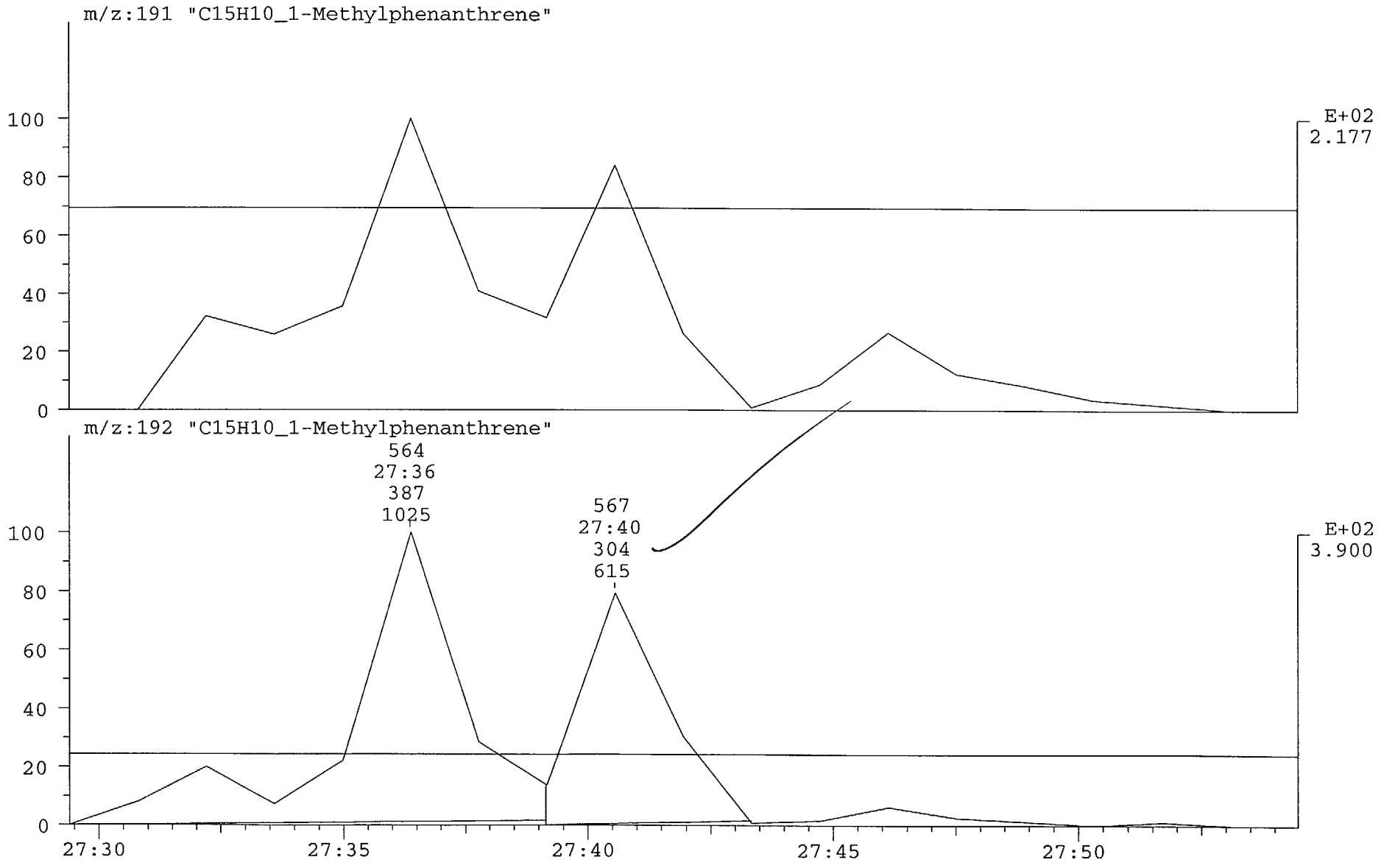
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



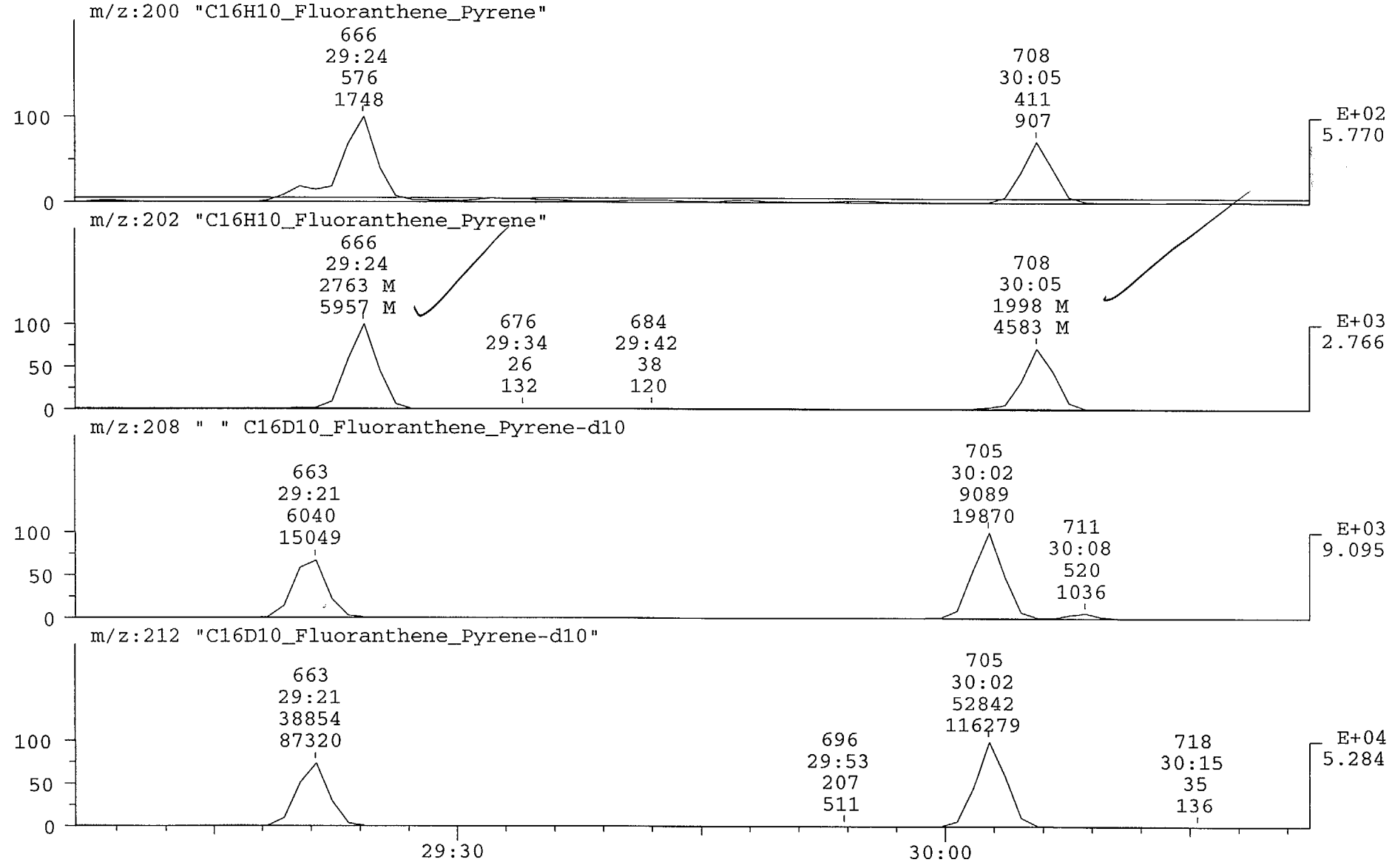
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



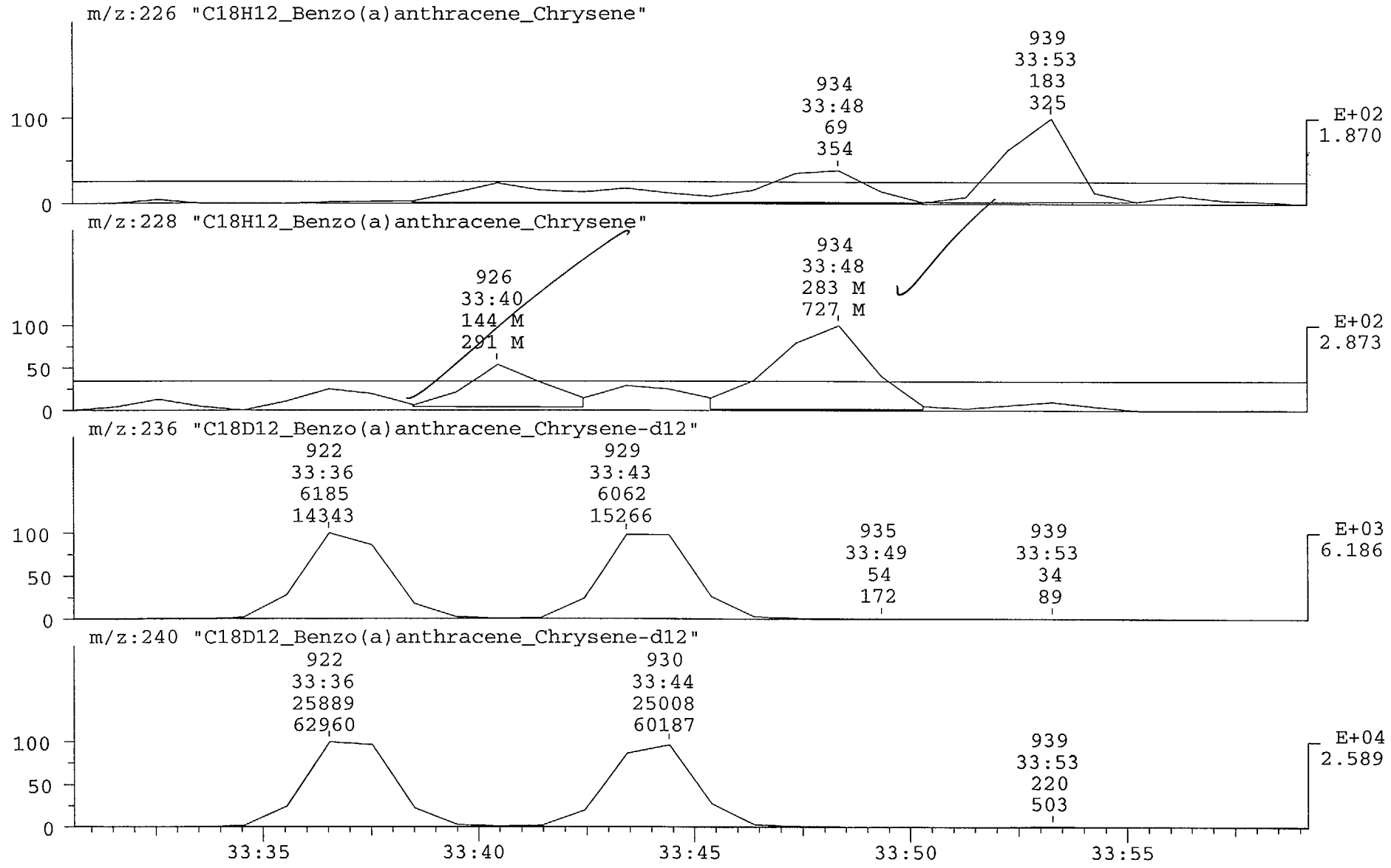
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



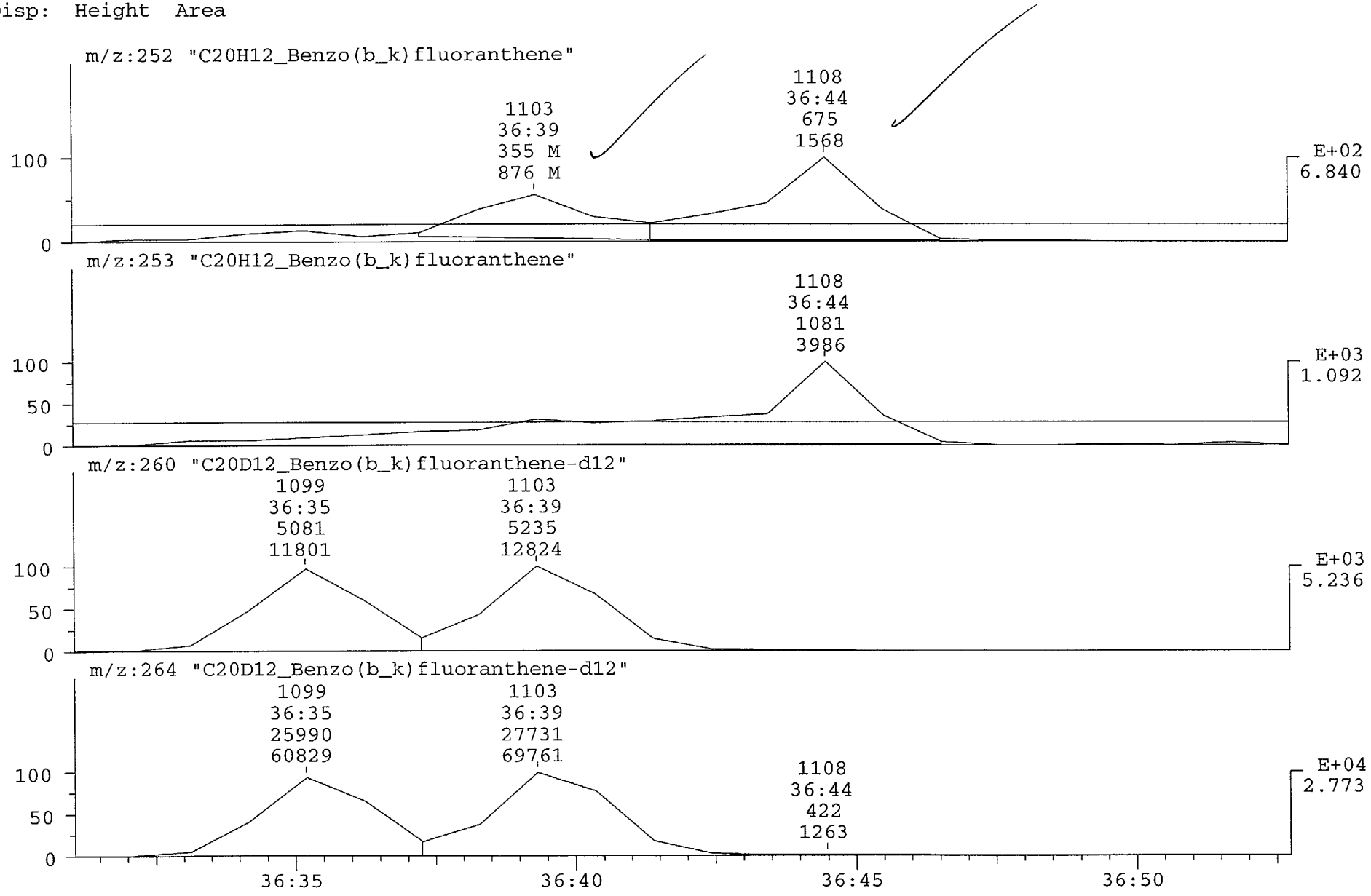
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



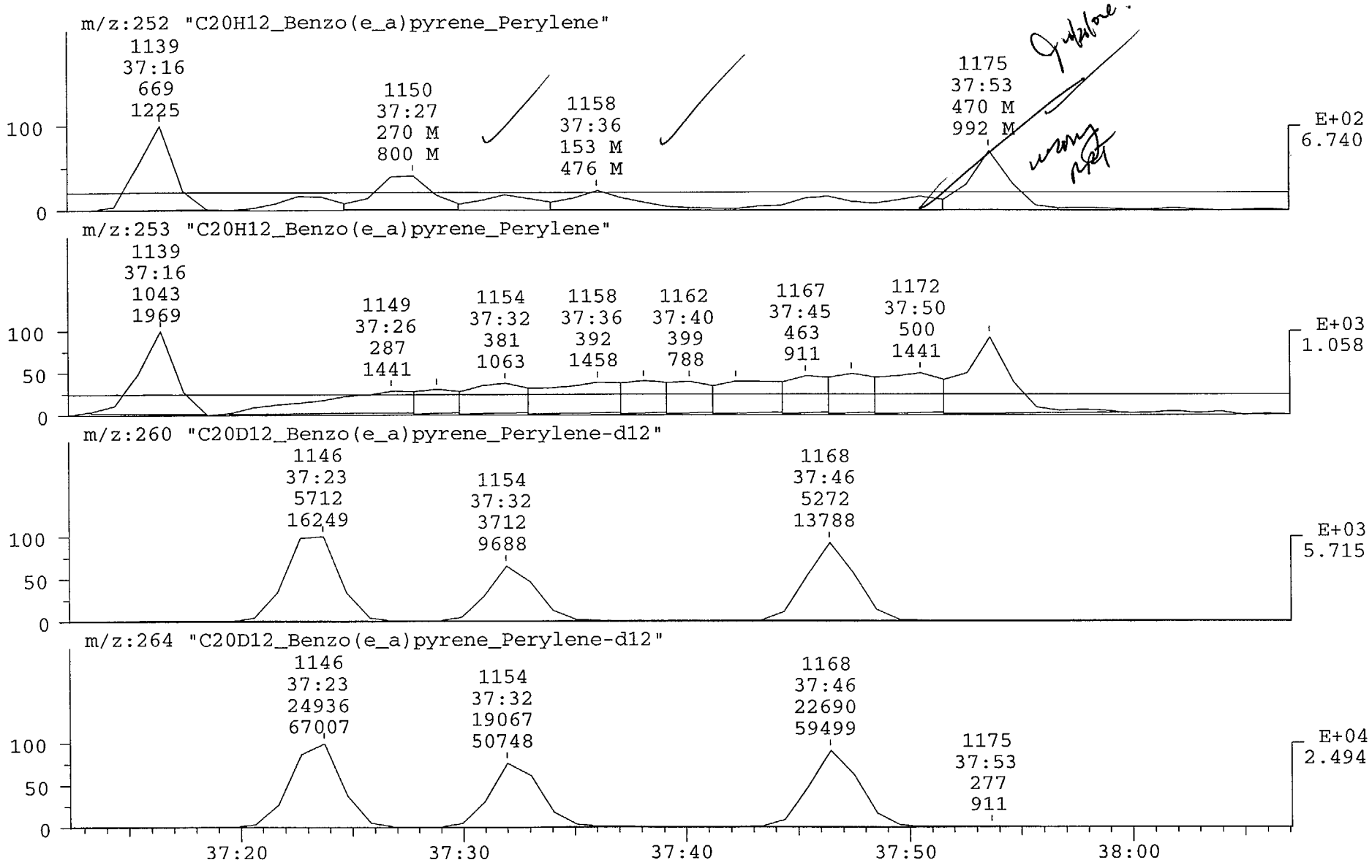
CHRO: yh2h22 19-APR-06 Elapse: 40:59 1326
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



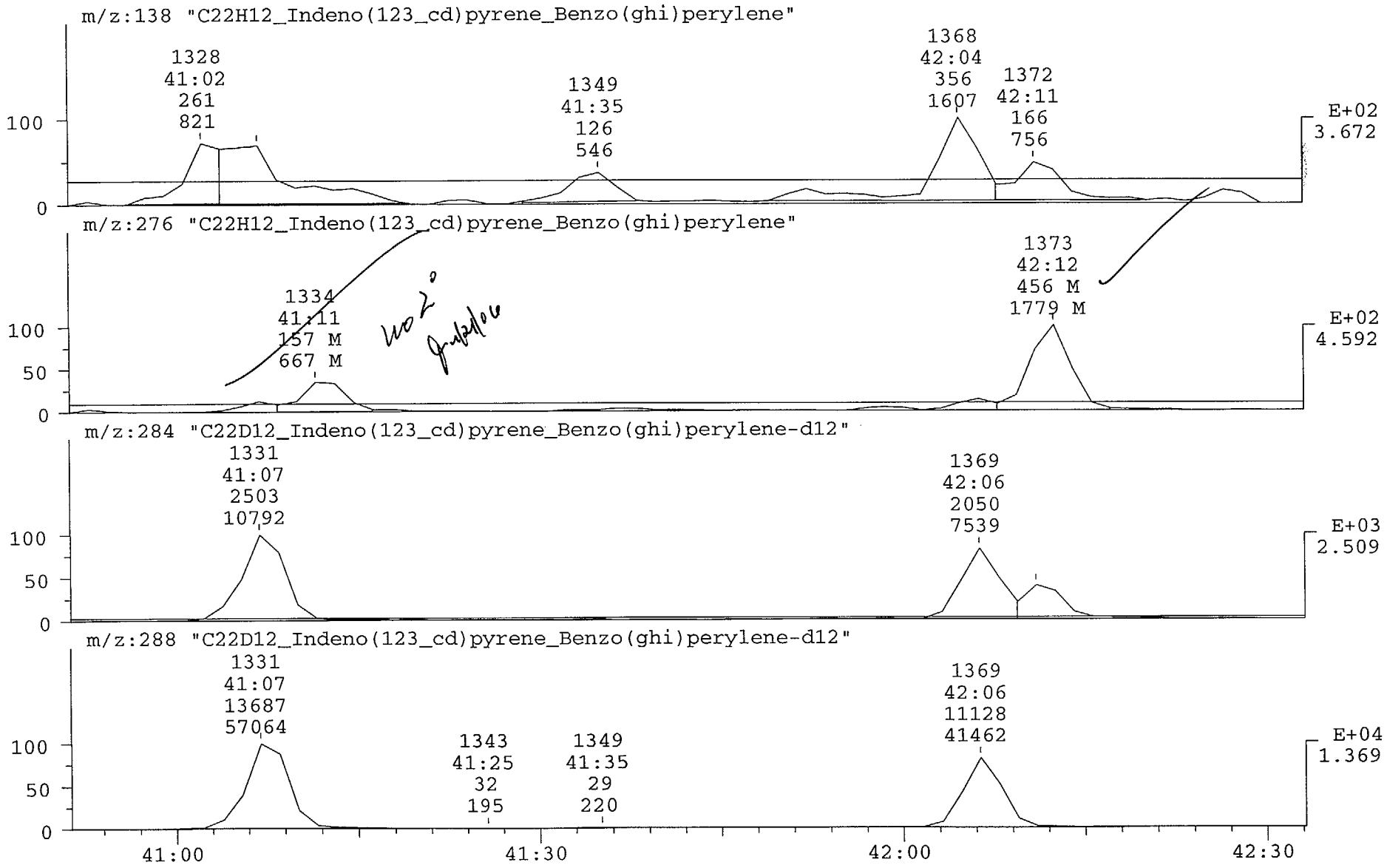
CHRO: yh2h22 19-APR-06 Elapse: 36:41 1105
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h22 19-APR-06 Elapse: 36:41 1105
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

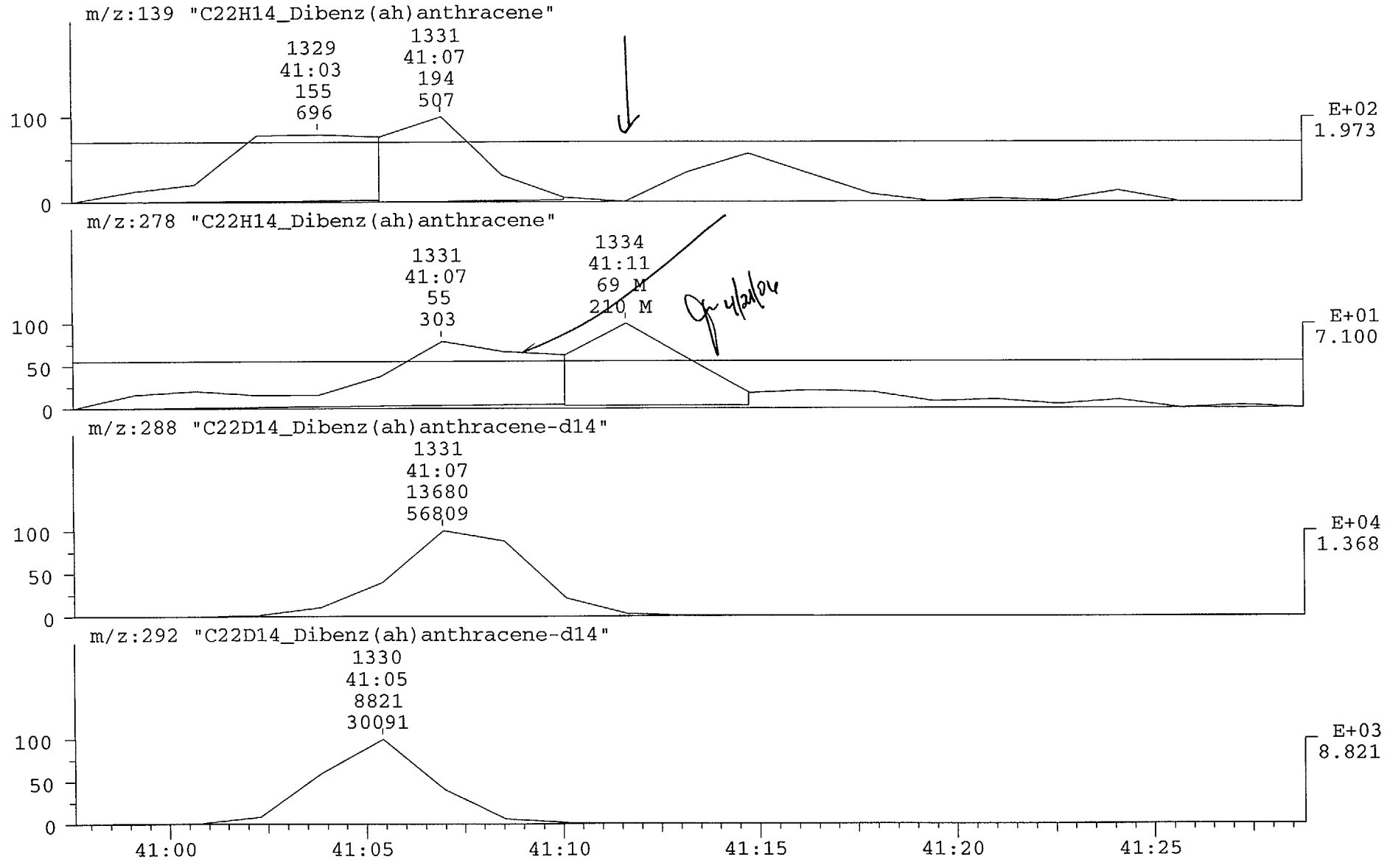


CHRO: yh2h22 19-APR-06 Elapse: 36:41 1105
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



3696

CHRO: yh2h22 19-APR-06 Elapse: 36:41 1105
Samp: WO=h2h221aa Meth=YA1 Dil=1 Start : 05:16:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D030241-009 Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



3697

```
File: YH2H22.D
Date Acquired: 19 Apr 2006   5:16 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H221AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  13
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

[POSTRUN]
Source=MS
PrimaryFile=\data.ms
PrimaryType=hgfile
timestamp=MS ChemStation
Matrix=1
InitialAmt=1
FinalAmt=1

Beginning Export Process Wed Apr 19 14:10:13 2006
d:\cdffiles\YH2H22.CDF Translated at Wed Apr 19 14:10:13 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:36:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h22.dat
NetCDF File (input): /usr/users/hp/data/yh2h22.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:36:01 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	**Work Order #....:**	H2H231AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	ND		20	0.76	ng/sampl
Acenaphthylene	ND		20	0.22	ng/sampl
Anthracene	**0.50**	**J**	**20**	**0.45**	**ng/sampl**
Benzo(a)anthracene	ND		20	0.20	ng/sampl
Benzo(b)fluoranthene	**41**	**B**	**20**	**0.47**	**ng/sampl**
Benzo(k)fluoranthene	ND		20	0.58	ng/sampl
Benzo(ghi)perylene	**2.0**	**J**	**20**	**0.84**	**ng/sampl**
Benzo(a)pyrene	ND		20	0.67	ng/sampl
Benzo(e)pyrene	ND		20	0.57	ng/sampl
Chrysene	ND		20	0.21	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.46	ng/sampl
Fluoranthene	**1.2**	**B J**	**20**	**0.27**	**ng/sampl**
Fluorene	**2.3**	**B J**	**20**	**0.49**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**1.9**	**J**	**20**	**0.90**	**ng/sampl**
2-Methylnaphthalene	**13**	**B J**	**20**	**0.43**	**ng/sampl**
Naphthalene	**180**	**B J**	**20**	**0.67**	**ng/sampl**
Perylene	ND		20	0.60	ng/sampl
Phenanthrene	**5.5**	**B J**	**20**	**0.39**	**ng/sampl**
Pyrene	**1.4**	**B J**	**20**	**0.26**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
Naphthalene-d8	84		15 - 120
2-Methylnaphthalene-d10	92		20 - 120
Acenaphthylene-d8	105		20 - 120
Phenanthrene-d10	104		30 - 120
Fluoranthene-d10	106		30 - 120
Benzo(a)anthracene-d12	108		30 - 120
Chrysene-d12	101		30 - 120
Benzo(b)fluoranthene-d12	103		30 - 120
Benzo(k)fluoranthene-d12	109		30 - 120
Benzo(a)pyrene-d12	109		30 - 120
Perylene-d12	108		30 - 120
Indeno(1,2,3-cd)pyrene-d12	123	*	30 - 120
Dibenz(ah)anthracene-d14	126	*	30 - 120
Benzo(ghi)perylene-d12	119		30 - 120

STL Knoxville - ACS

Sample ID: G-3042-R2-MM5 TRAIN B XAD-2 TRIP/RB

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 010	**Work Order #....:**	H2H231AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/27/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Fluorene d-10	95	30 - 140
Terphenyl-d14	95	30 - 140
13C6-Fluorene	98	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H231AA	Prep Batch	6100060	Lot No	H6D030241-010
Data File	/20060427s1/yh2h232.d	Prep Date	04/10/06	SDG No	
Analysis ID	90369	Prep Exp Date	04/20/06	Date Received	04/02/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/30/06
Analysis Time	22:18	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	16:10	195759	75539	1.623	500.0	421.945164	84.39	421.945164		0.483
Naphthalene	16:13	86840	30223	1.233		179.945075		179.945075	B J	0.671
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:06	4877	2340	1.270		13.349428		13.349428	BJ	0.435
2-Methylnaphthalene-d10	18:01	143869	61120	1.093	500.0	460.609196	92.12	460.609196		0.388
1-Methylnaphthalene	18:25	3102	1389	1.358		8.938472		8.938472	BJ	0.410
1-Methylnaphthalene-d10	18:20	127792	60612	0.958	500.0	466.914644	93.38	466.914644		0.443
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	1337	624	1.552		2.993701		2.993701	J B	0.540
2,6-Dimethylnaphthalene	19:56	1426	538	1.240		4.115498		4.115498	J B	0.883
2,6-Dimethylnaphthalene-d1	19:47	139674	63930	1.009	500.0	484.274441	96.85	484.274441		0.525
C2 Alkylnaphthalenes				1.240		4.115498		4.115498	J	0.747
Acenaphthylene				1.221				ND		0.225
Acenaphthylene-d8	20:46	246812	91089	1.646	500.0	524.582224	104.92	524.582224		0.399
Acenaphthene-d10	21:16	142885	58986	1.000	500.0	500.000000	100.00	500.000000		0.869
Acenaphthene				0.740				ND		0.761
2,3,5-Trimethylnaphthalene				1.140				ND		0.497
C3 Alkylnaphthalenes				1.140				ND		0.421
Fluorene d-10	22:46	371470	174194	0.805	1000	949.470915	94.95	949.470915		0.452
Fluorene-C13	22:50	357327	125520	0.752	1000	976.828469	97.68	976.828469		0.322
Fluorene	22:50	1014	436	0.892		2.337920		2.337920	BJ	0.494
Phenanthrene-d10	25:42	243133	113416	0.793	500.0	519.198854	103.84	519.198854		0.412
Phenanthrene	25:46	3216	1267	1.210		5.465165		5.465165	BJ	0.392
Anthracene-d10								ND		0.000000
Anthracene	25:54	259	147	1.065		0.500293		0.500293	J	0.445
1-Methylphenanthrene				0.871				ND		0.304
Fluoranthene-d10	29:20	238340	104950	0.761	500.0	529.900429	105.98	529.900429		0.177
Fluoranthene	29:23	766	307	1.298		1.237911		1.237911	BJ	0.266
Pyrene-d10	30:01	295339	130009	1.000	500.0	500.000000	100.00	500.000000		0.135
Pyrene	30:04	888	327	1.319		1.412454		1.412454	BJ	0.262
Terphenyl-d14	30:30	344012	151429	0.762	1000	947.608737	94.76	947.608737		0.156
Benzo(a)Anthracene-d12	33:36	164603	73930	0.514	500.0	542.057492	108.41	542.057492		0.355
Benzo(a)anthracene				1.385				ND		0.195
Chrysene-d12	33:43	153946	72208	0.516	500.0	505.063771	101.01	505.063771		0.354
Chrysene				1.333				ND		0.208
Benzo(b)Fluoranthene-d12	36:34	141791	57030	0.895	500.0	512.669467	102.53	512.669467		0.415
Benzo(k)Fluoranthene-d12	36:39	174210	60717	1.030	500.0	546.970482	109.39	546.970482		0.360
Benzo(b)fluoranthene	36:37	16959	7564	1.446		41.371098		41.371098	B	0.470
Benzo(k)fluoranthene				1.093				ND		0.584
Benzo(e)pyrene-d12	37:22	154580	60650	1.000	500.0	500.000000	100.00	500.000000		0.371
Benzo(e)pyrene				1.495				ND		0.574
Benzo(a)Pyrene-d12	37:31	130410	45116	0.776	500.0	543.559406	108.71	543.559406		0.478
Benzo(a)pyrene				1.286				ND		0.668
Perylene-d12	37:45	156196	56850	0.936	500.0	539.637591	107.93	539.637591		0.396
Perylene				1.140				ND		0.598
3-Methylcholanthrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H231AA	Prep Batch	6100060	Lot No	H6D030241-010
Data File	/20060427s1/yh2h232.d	Prep Date	04/10/06	SDG No	
Analysis ID	90369	Prep Exp Date	04/20/06	Date Received	04/02/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/30/06
Analysis Time	22:18	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:03	78423	23432	0.402	500.0	631.489002	126.30	631.489002		0.770
Indeno(1,2,3-cd)pyrene-d12	41:07	146987	34373	0.772	500.0	615.774480	123.15	615.774480		0.294
Indeno(1,2,3-cd)pyrene	41:10	691	178	1.259		1.866740		1.866740	BJ	0.895
Dibenz(a,h)anthracene				1.961				ND		0.463
Benzo(ghi)Perylene-d12	42:04	102914	28083	0.561	500.0	593.481911	118.70	593.481911		0.404
Benzo(ghi)perylene	42:11	672	162	1.639		1.991770		1.991770	BJ	0.842
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

duplicate x2

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H231AA	Prep Batch	6100060	Lot No	H6D030241-010
Data File	/20060427s1/yh2h232.d	Prep Date	04/10/06	SDG No	
Analysis ID	90369	Prep Exp Date	04/20/06	Date Received	04/02/06
Analysis Date	04/27/06 22:18	Matrix	AIR	Date Sampled	03/30/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	125		50				
	Naphthalene	16:13	16:05	8	86840		30223			ABB	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	93		37				
	Naphthalene-d8	16:10	16:02	8	195759		75539			ABB	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	68		27				
	2-Methylnaphthalene	18:06	18:07	-1	4877		2340			MBB	M
	1-Methylnaphthalene	18:25	18:26	-1	3102		1389			ABB	M
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	50		20				
	2-Methylnaphthalene-d10	18:01	18:02	-1	143869		61120			ABV	
	1-Methylnaphthalene-d10	18:20	18:21	-1	127792		60612			AVV	
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	103		41				
	Biphenyl	19:27	19:30	-3	1337		624			MVV	M
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	140		56				
	2,6-Dimethylnaphthalene	19:56	19:58	-2	1426		538			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	78		31				
	Acenaphthylene-d8	20:46	20:50	-4	246812		91089			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	83		33				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	103		41				
	Acenaphthene-d10	21:16	21:20	-4	142885		58986			ABB	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	100		40				
	Fluorene	22:50	22:55	-5	1014		436			MBB	M
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	63		25				
	2,6-Dimethylnaphthalene	19:47	19:51	-4	139674		63930			ABB	M
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	58		23				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	73		29				
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	55		22				
	Fluorene-C13	22:50	22:55	-5	357327		125520			AVV	M
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	83		33				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H231AA	Prep Batch	6100060	Lot No	H6D030241-010
Data File	/20060427s1/yh2h232.d	Prep Date	04/10/06	SDG No	
Analysis ID	90369	Prep Exp Date	04/20/06	Date Received	04/02/06
Analysis Date	04/27/06 22:18	Matrix	AIR	Date Sampled	03/30/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					176.0000		176.0000				
	Fluorene d-10	22:46	22:50	-4	371470		174194			ABB	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	108		43				
	Phenanthrene	25:46	25:50	-4	3216		1267			MBB	M
	Anthracene	25:54	25:57	-3	259		147			MVV	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	85		34				
	Phenanthrene-d10	25:42	25:46	-4	243133		113416			ABV	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	60		24				
202					202.0000		202.0000				
	Noise	00:00	00:00	0	73		29				
	Fluoranthene	29:23	29:25	-2	766		307			AVB	M
	Pyrene	30:04	30:07	-3	888		327			MVB	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	35		14				
	Fluoranthene-d10	29:20	29:22	-2	238340		104950			ABV	
	Pyrene-d10	30:01	30:03	-2	295339		130009			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	40		16				
240					240.0000		240.0000				
	Noise	00:00	00:00	0	48		19				
	Benzo(a)Anthracene-d12	33:36	33:37	-1	164603		73930			ABV	
	Chrysene-d12	33:43	33:44	-1	153946		72208			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	25		10				
	Terphenyl-d14	30:30	30:31	-1	344012		151429			ABB	
252					252.0000		252.0000				
	Noise	00:00	00:00	0	78		31				
	Benzo(b)fluoranthene	36:37	36:38	-1	16959		7564			ABB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	45		18				
	Benzo(b)Fluoranthene-d1	36:34	36:34	0	141791		57030			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:38	1	174210		60717			AVB	
	Benzo(e)pyrene-d12	37:22	37:22	0	154580		60650			AVV	
	Benzo(a)Pyrene-d12	37:31	37:31	0	130410		45116			AVV	
	Perylene-d12	37:45	37:45	0	156196		56850			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	58		23				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	78		31				
	Indeno(1,2,3-cd)pyrene	41:10	41:09	1	691		178			MVB	M

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H231AA	Prep Batch	6100060	Lot No	H6D030241-010
Data File	/20060427s1/yh2h232.d	Prep Date	04/10/06	SDG No	
Analysis ID	90369	Prep Exp Date	04/20/06	Date Received	04/02/06
Analysis Date	04/27/06 22:18	Matrix	AIR	Date Sampled	03/30/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

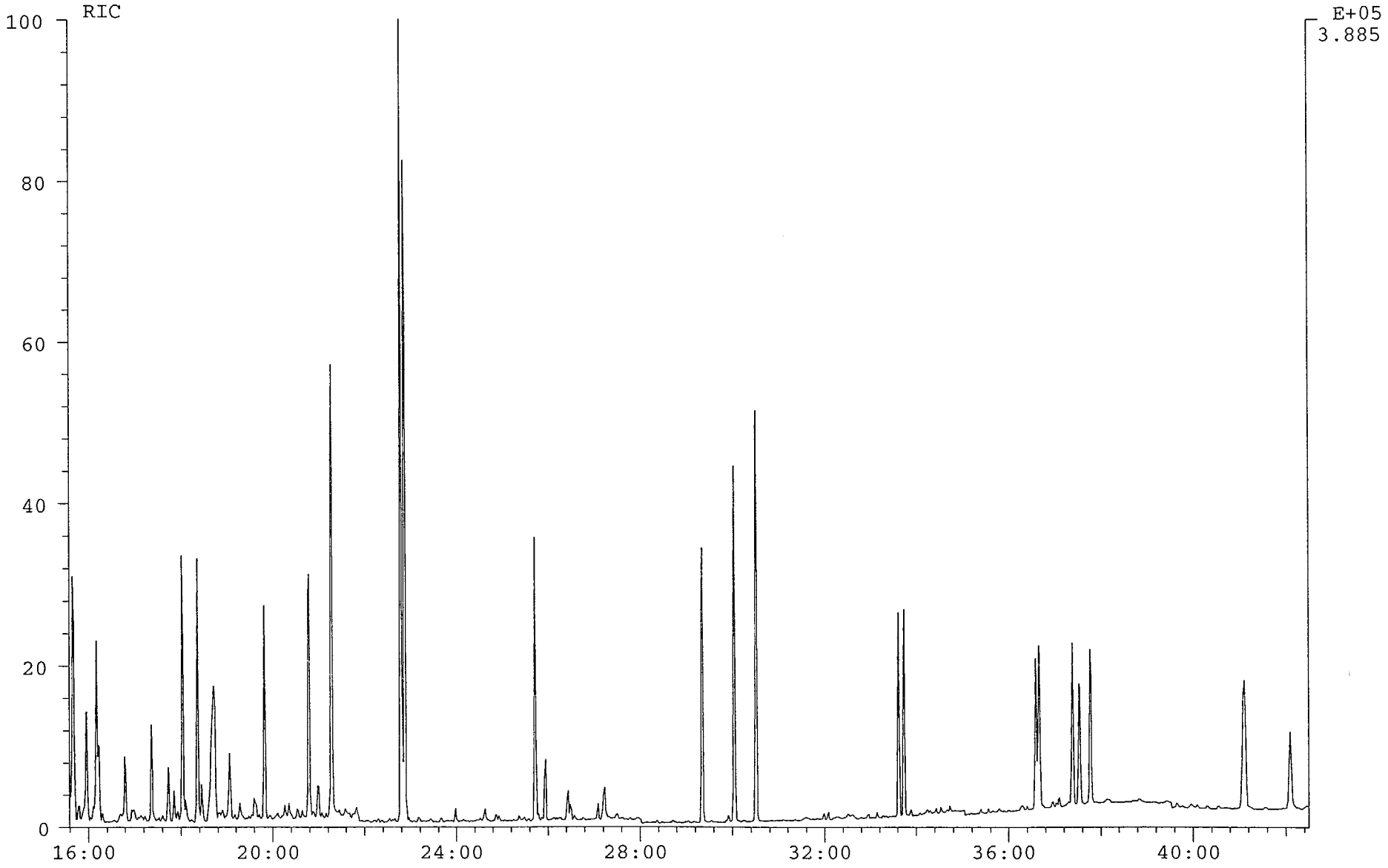
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
276					276.0000		276.0000				
	Benzo(ghi)perylene	42:11	42:10	1	672	✓	162			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	43		17				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	28		11				
	Indeno(1,2,3-cd)pyrene-	41:07	41:04	3	146987	✓	34373			ABV	
	Benzo(ghi)Perylene-d12	42:04	42:03	1	102914	✓	28083			AVB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	38		15				
	Dibenz(ah)Anthracene-d1	41:03	41:02	1	78423	✓	23432			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	23		9				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	18		7				

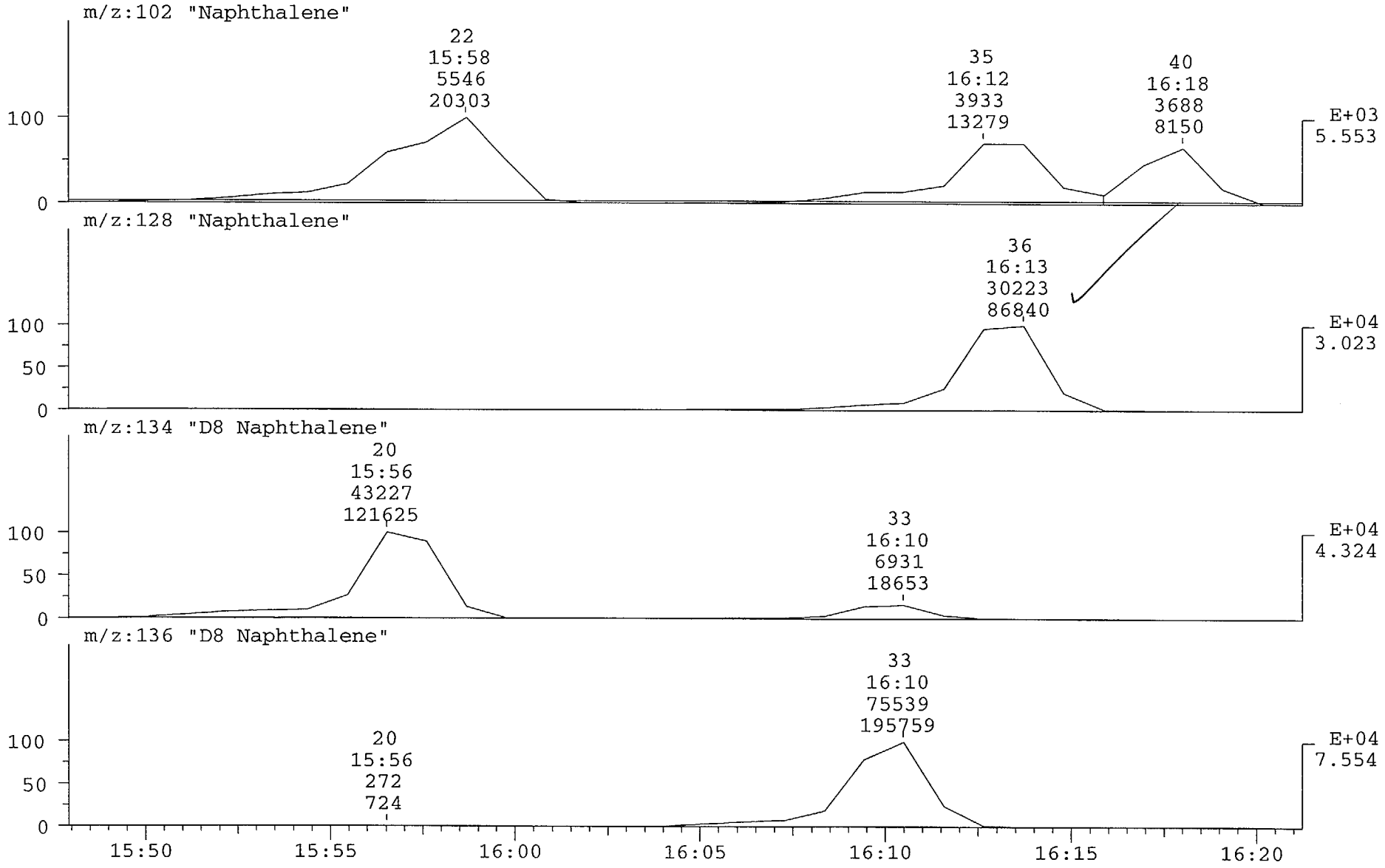
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Lab/Calc: JMN 4/28/06
QC/Rev VMIC 4/28/06

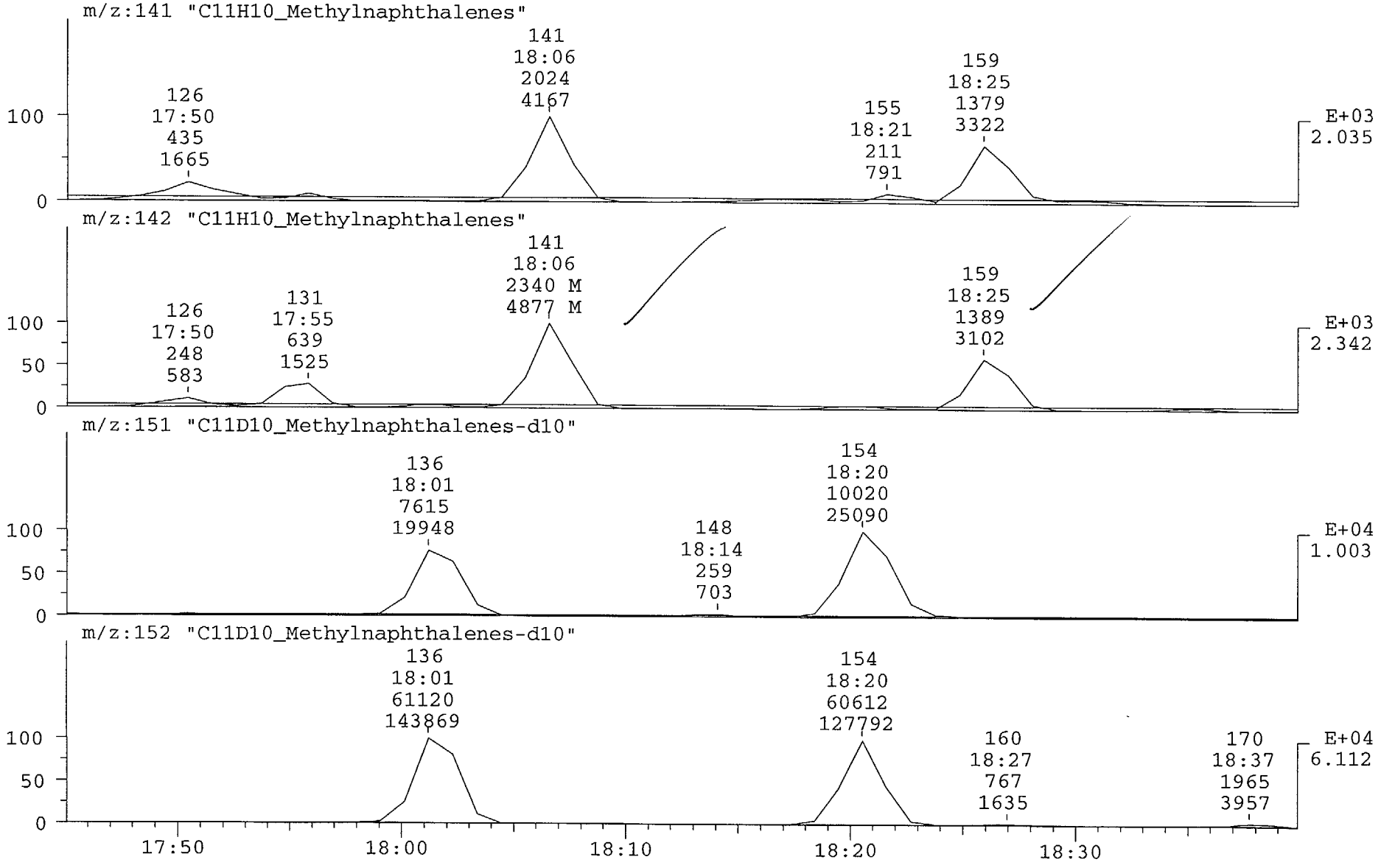
CHRO: yh2h232 27-APR-06 Elapse: 49:19 1735
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 1731 > 1739 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area



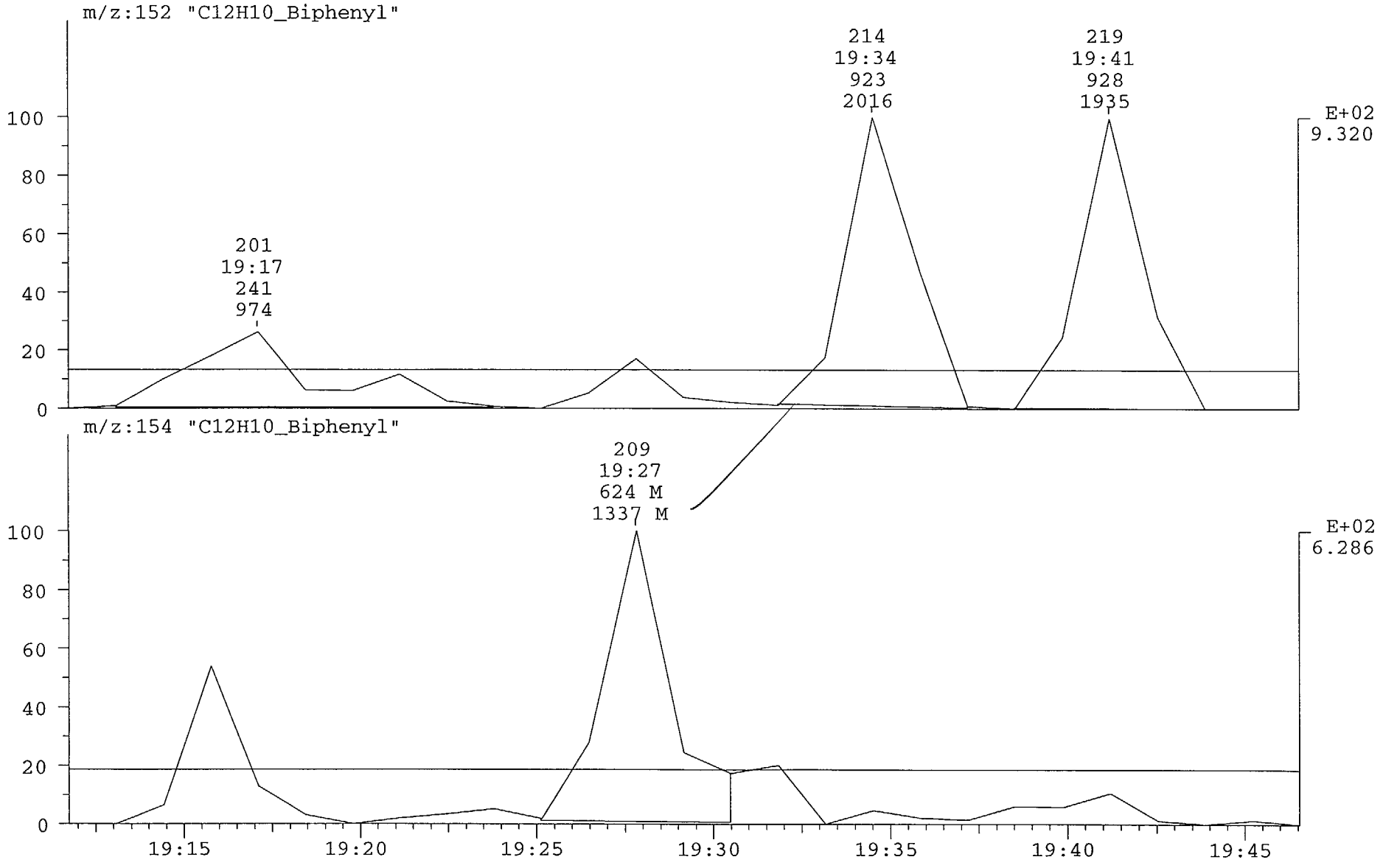
CHRO: yh2h232 27-APR-06 Elapse: 30:14.5 717
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



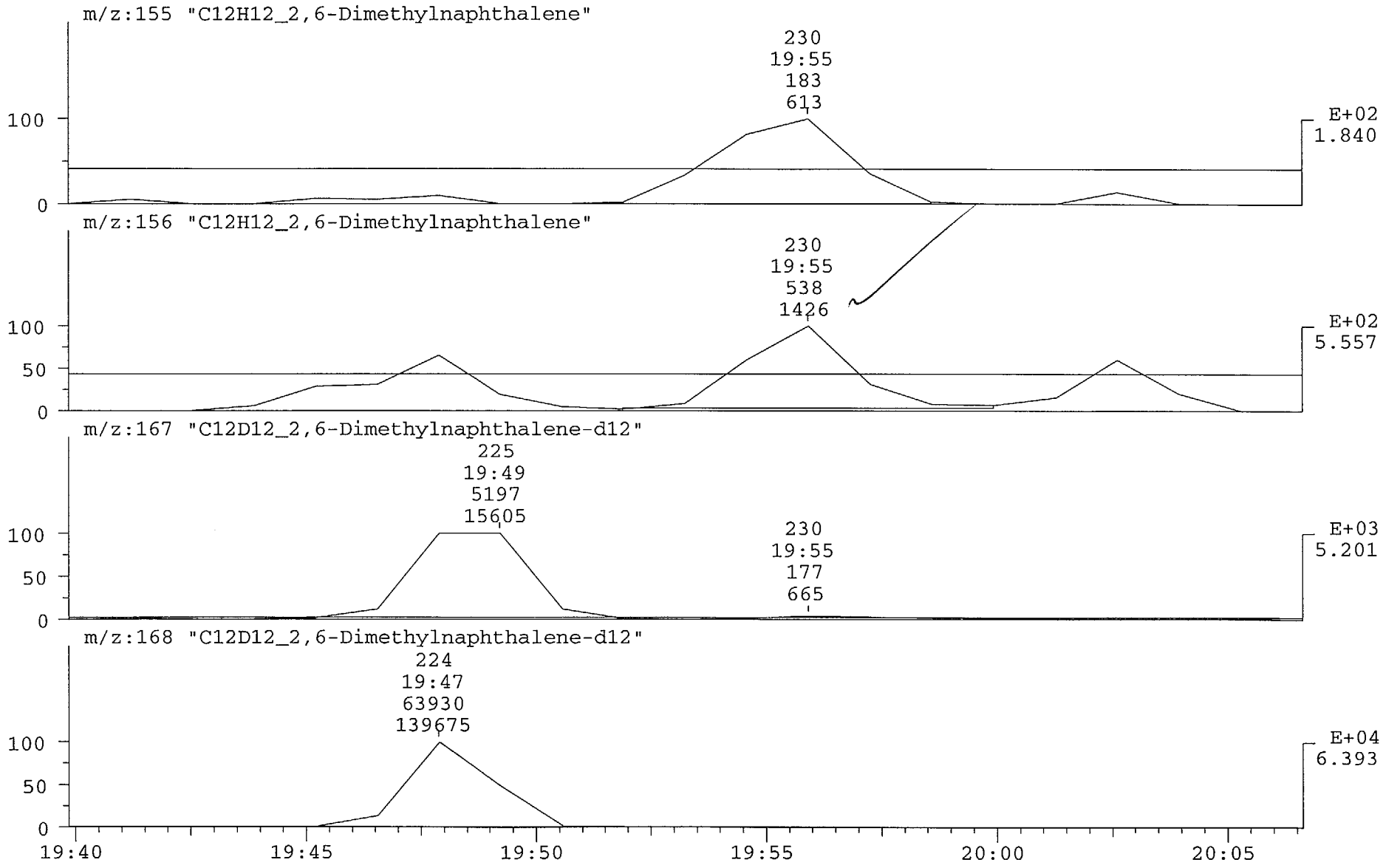
CHRO: yh2h232 27-APR-06 Elapse: 30:14.5 717
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



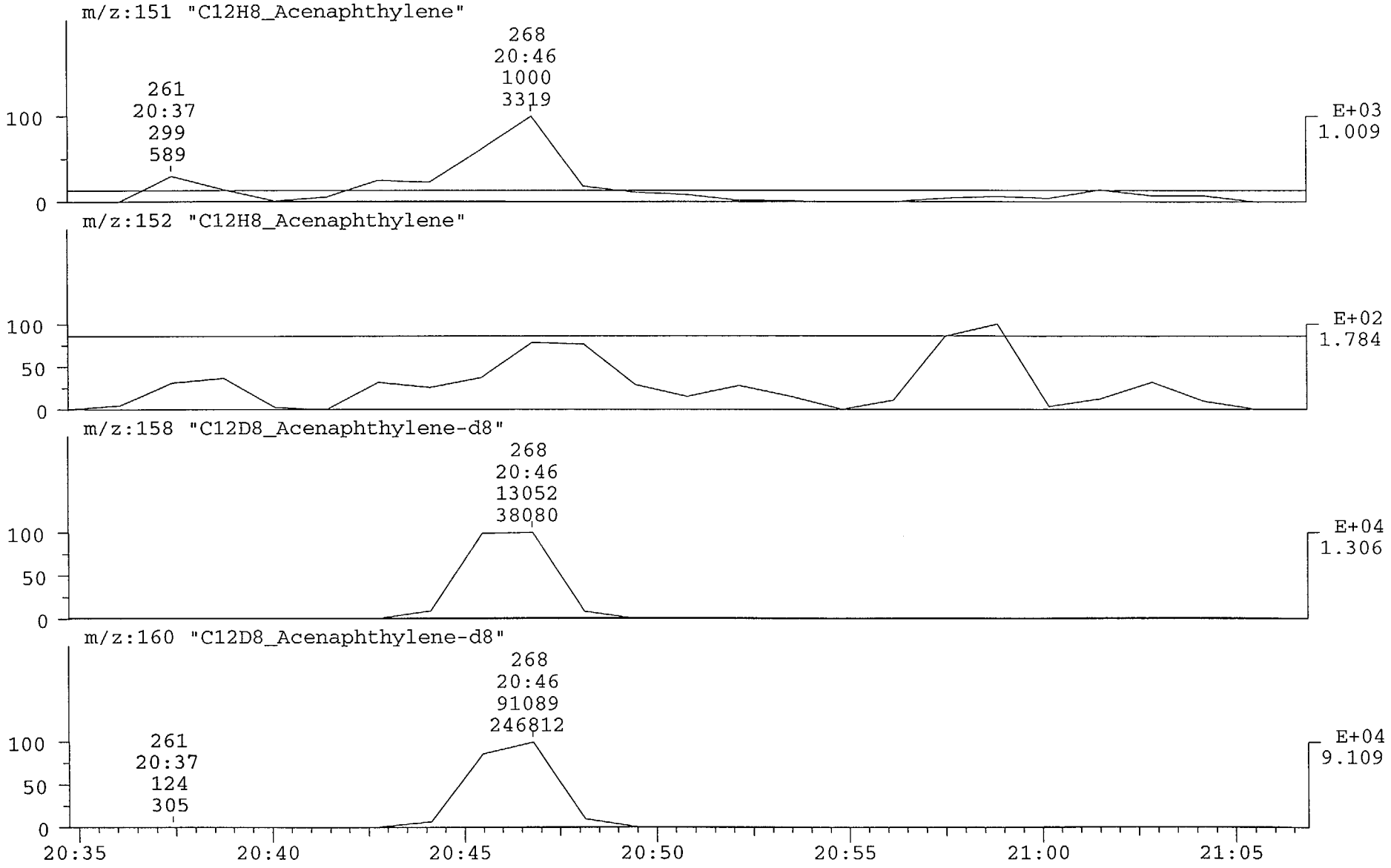
CHRO: yh2h232 27-APR-06 Elapse: 30:14.5 717
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



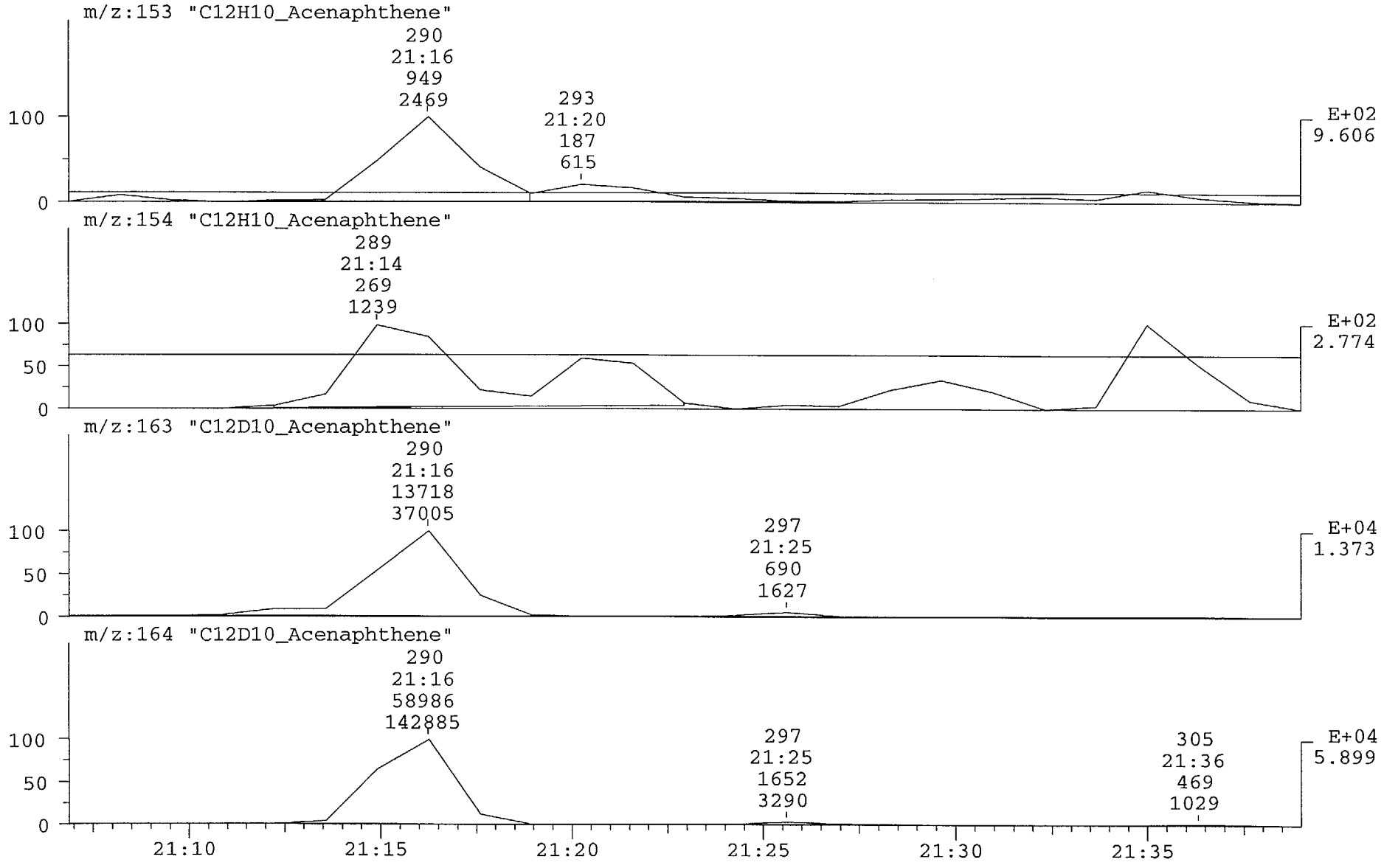
CHRO: yh2h232 27-APR-06 Elapse: 30:14.5 717
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



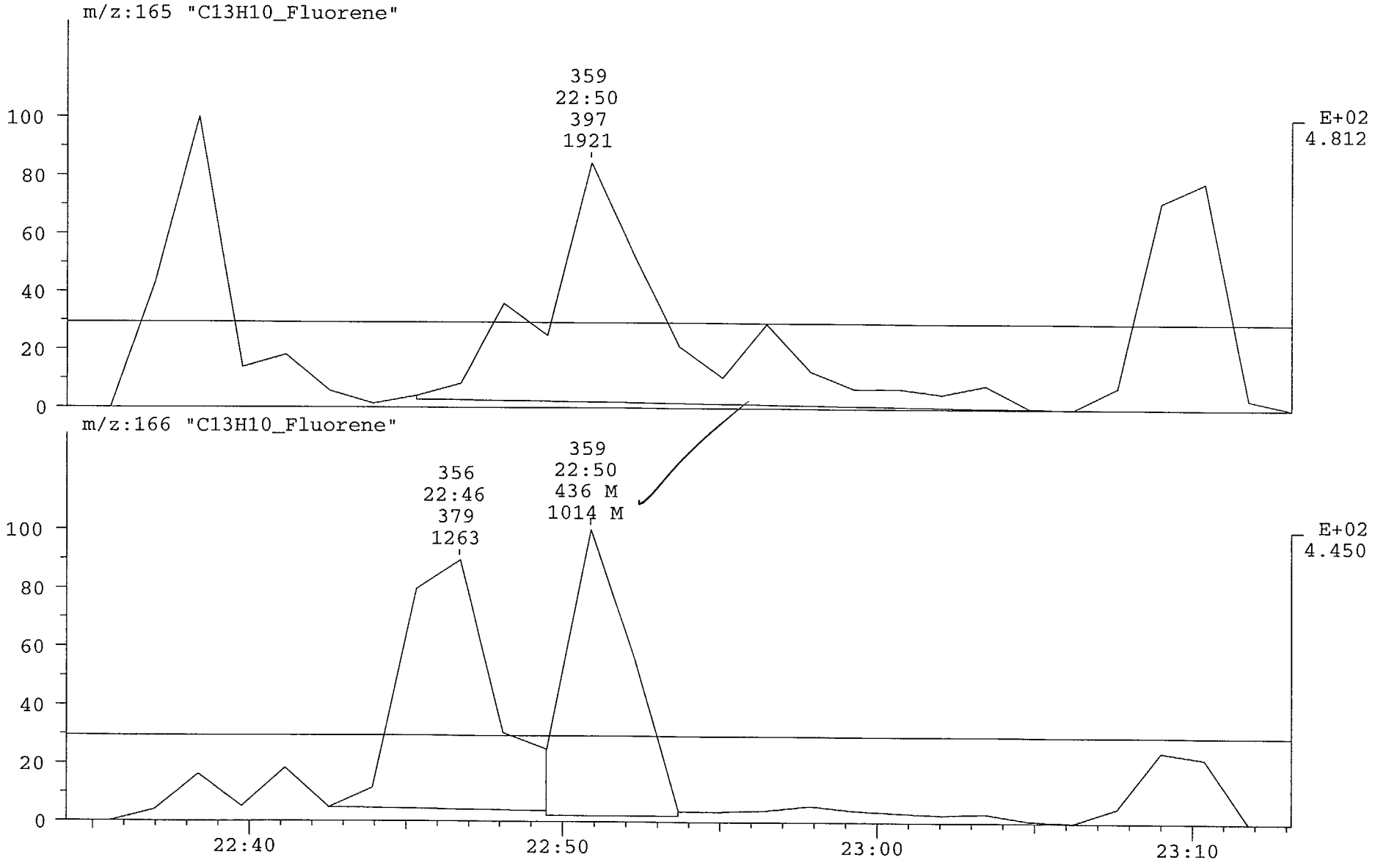
CHRO: yh2h232 27-APR-06 Elapse: 30:14.5 717
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



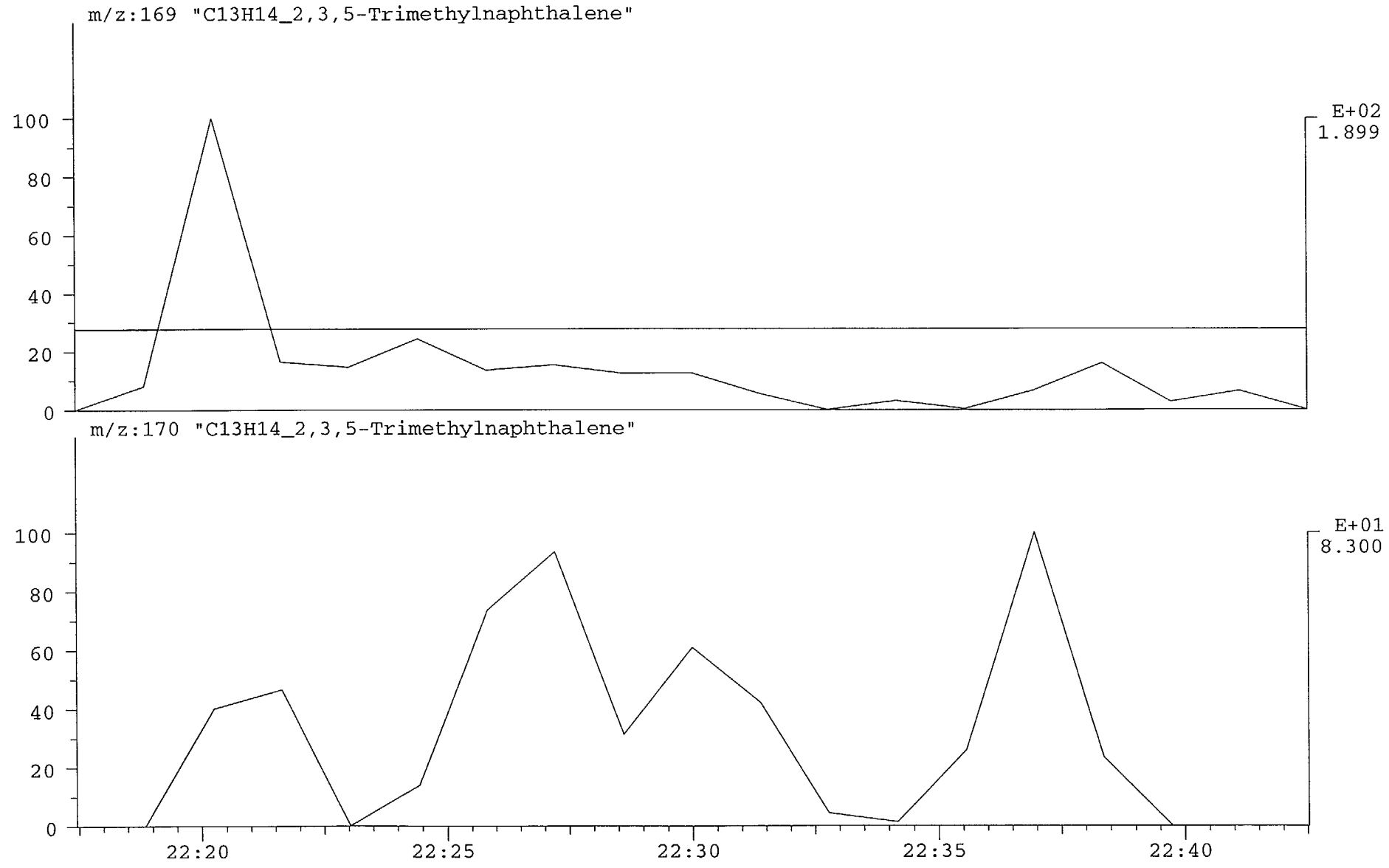
CHRO: yh2h232 27-APR-06 Elapse: 30:14.5 717
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



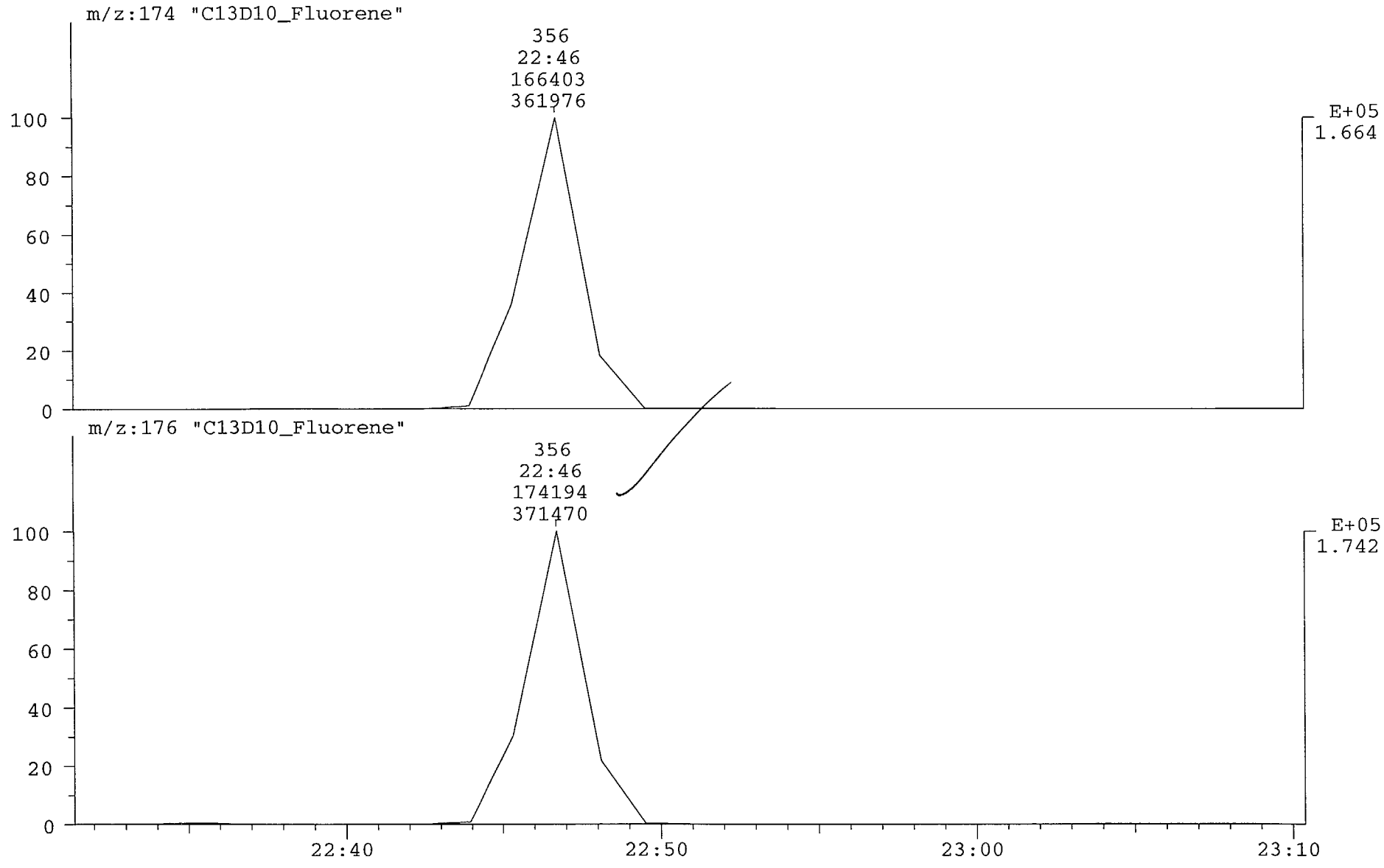
CHRO: yh2h232 27-APR-06 Elapse: 30:14.5 717
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



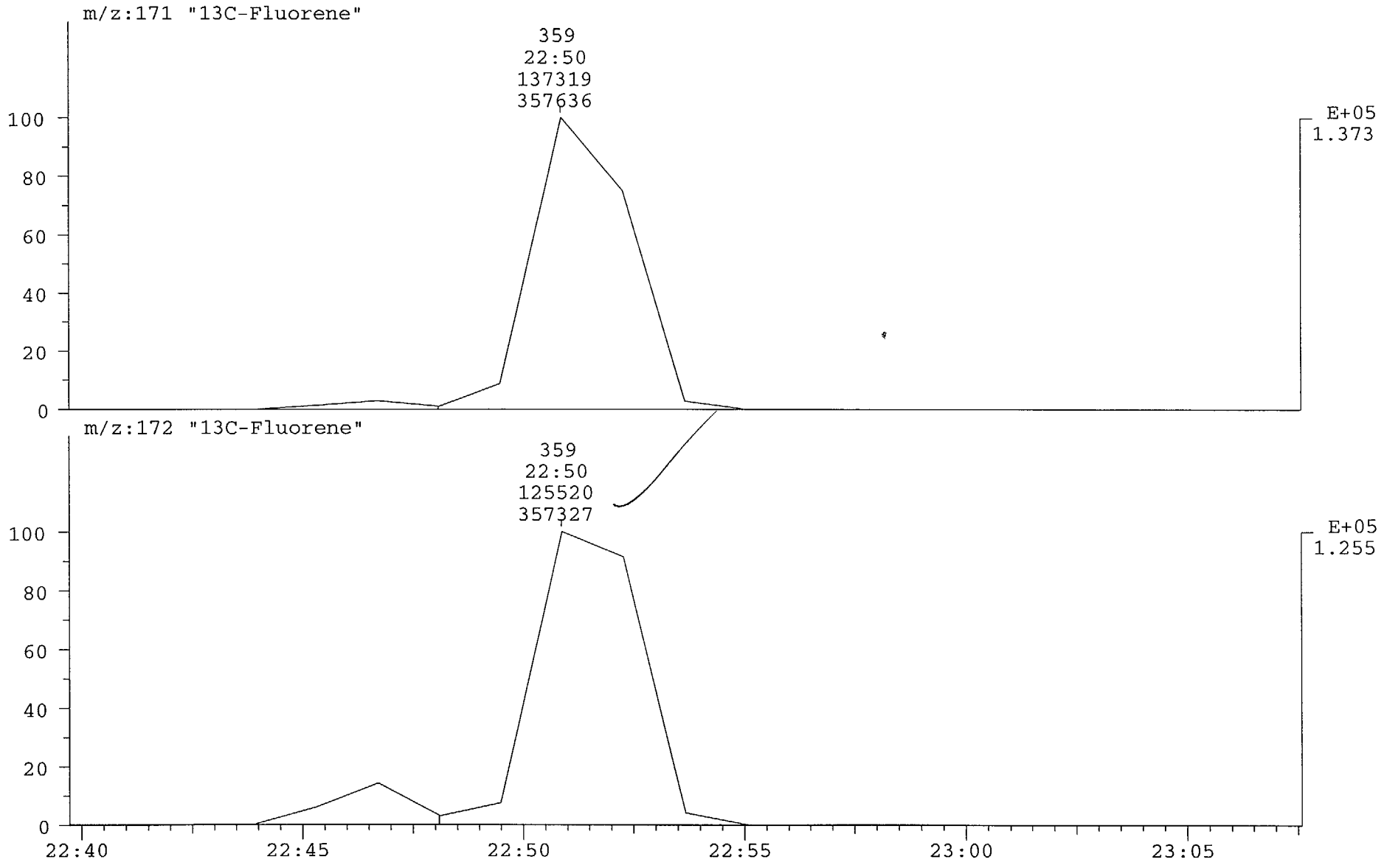
```
CHRO:  yh2h232                                27-APR-06   Elapse:   30:14.5      717
Samp:  WO=h2h231aa Meth=YA1 Dil=1                         Start :   22:18:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100060
Oper:  JMN           Client:  H6D030241-010               Inlet :
Peak:  100.00  ppm     Label wndw:   335 > 353            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



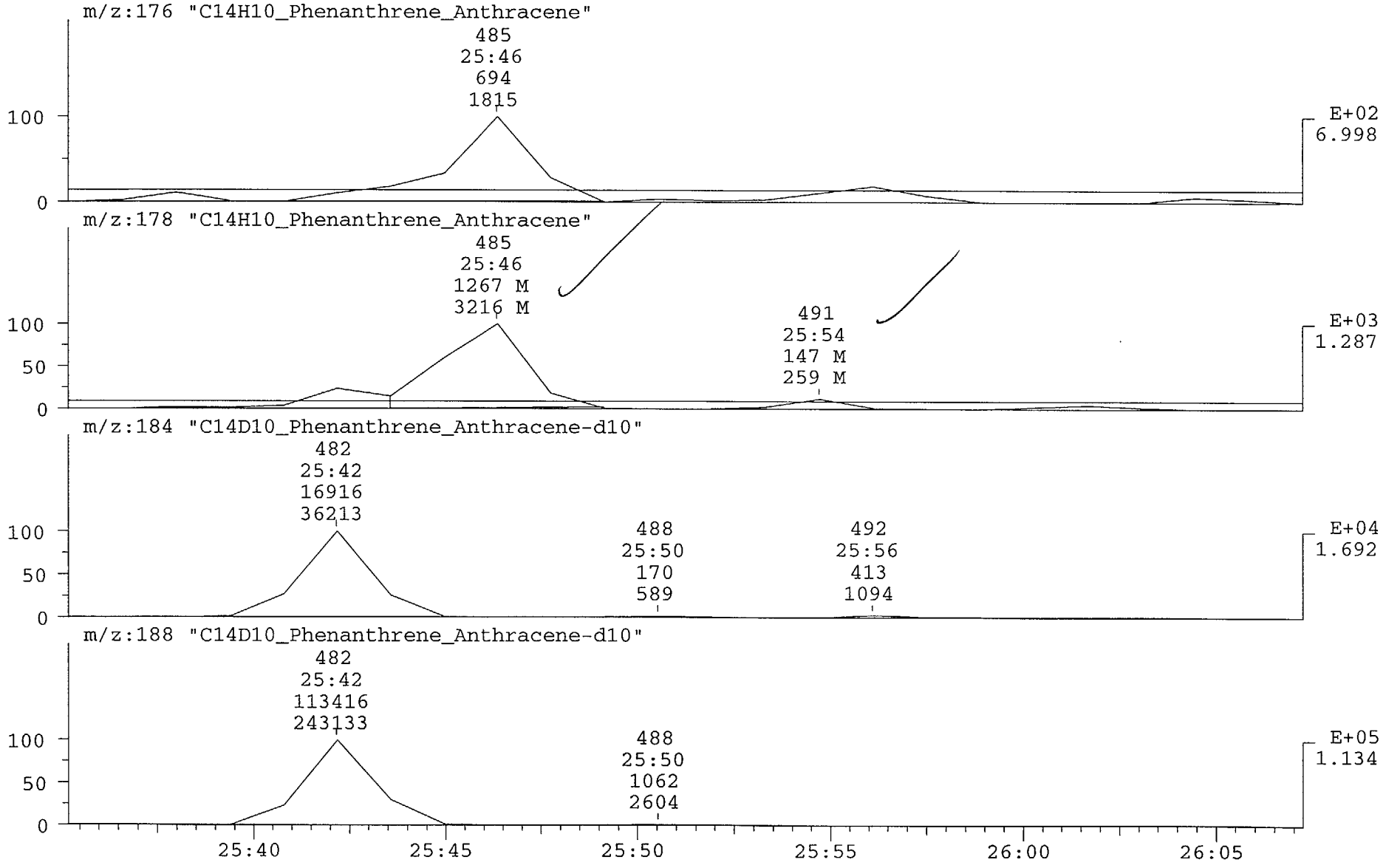
```
CHRO:  yh2h232                                27-APR-06   Elapse:   30:14.5      717
Samp:  WO=h2h231aa Meth=YA1 Dil=1                         Start :   22:18:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100060
Oper:  JMN           Client:  H6D030241-010               Inlet :
Peak:  100.00  ppm     Label wndw:   345 > 373            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1              Label :   -2, 3.0
Disp:  Height  Area
```



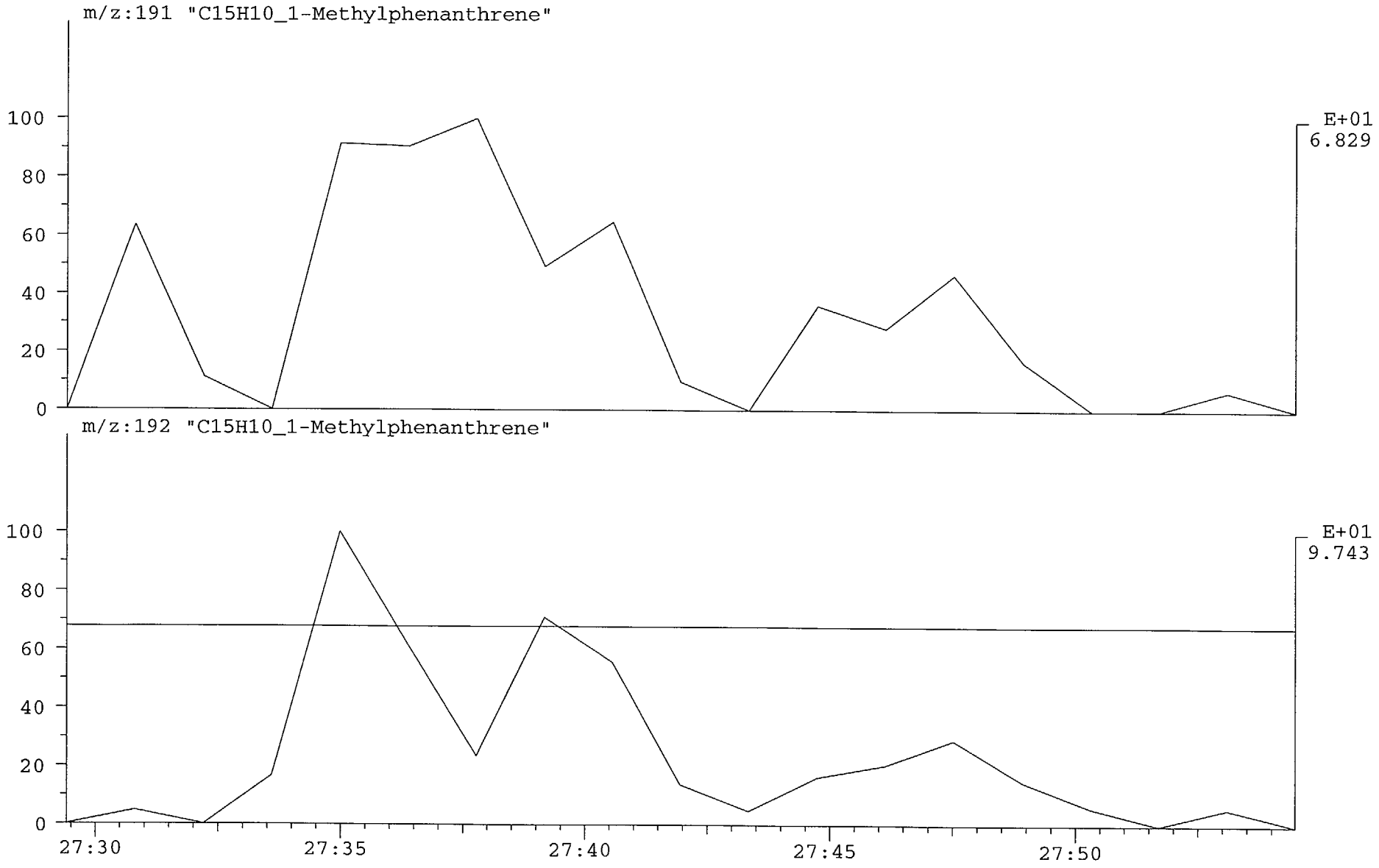
CHRO: yh2h232 27-APR-06 Elapse: 30:14.5 717
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



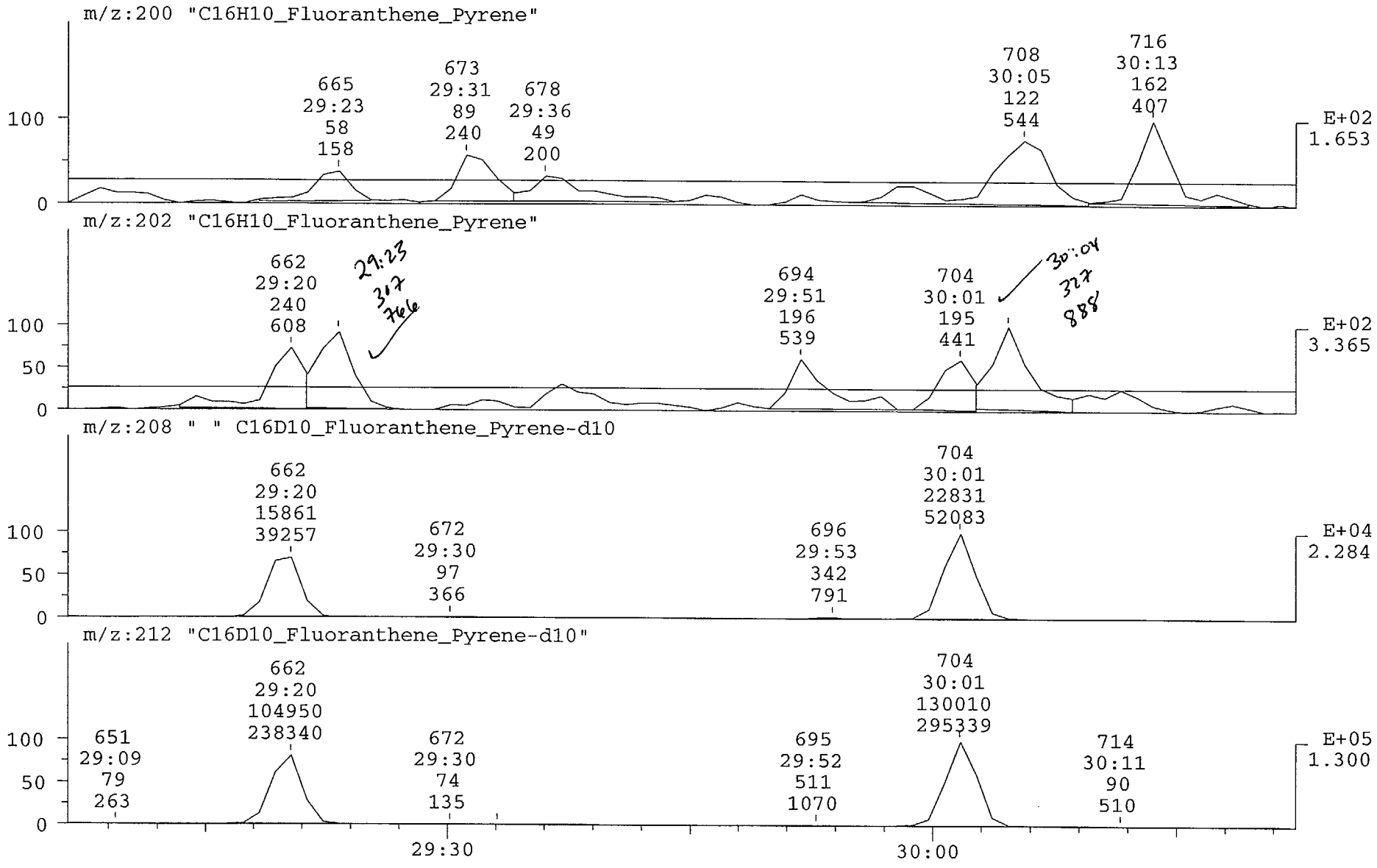
CHRO: yh2h232 27-APR-06 Elapse: 15:36.1 1
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



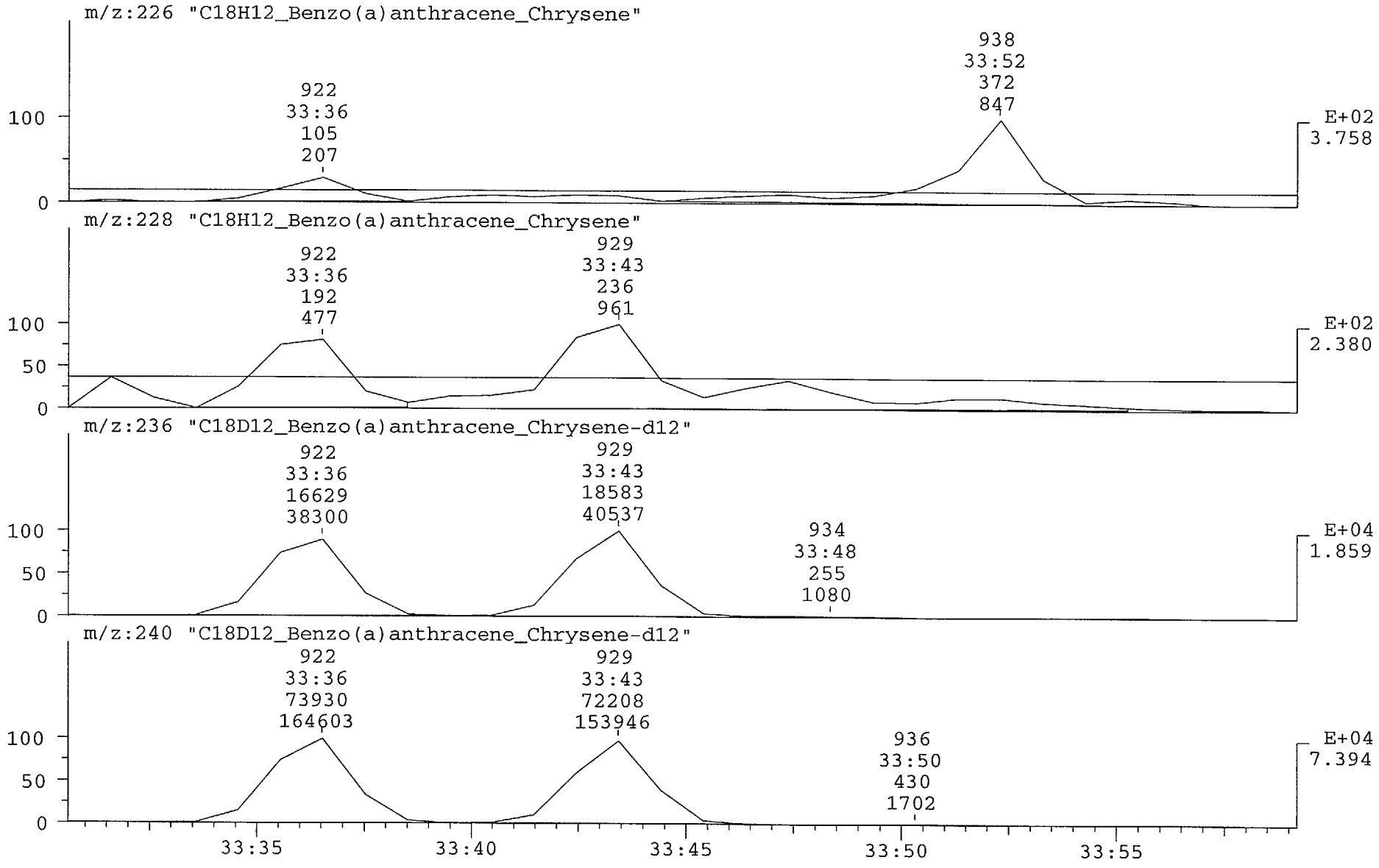
```
CHRO:  yh2h232                                  27-APR-06   Elapse:   15:36.1        1
Samp:  WO=h2h231aa Meth=YA1 Dil=1                           Start :   22:18:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                     Study :   6100060
Oper:  JMN           Client:  H6D030241-010                 Inlet :
Peak:  100.00  ppm     Label wndw:   559 > 577              Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :   -2, 3.0
Disp:  Height  Area
```



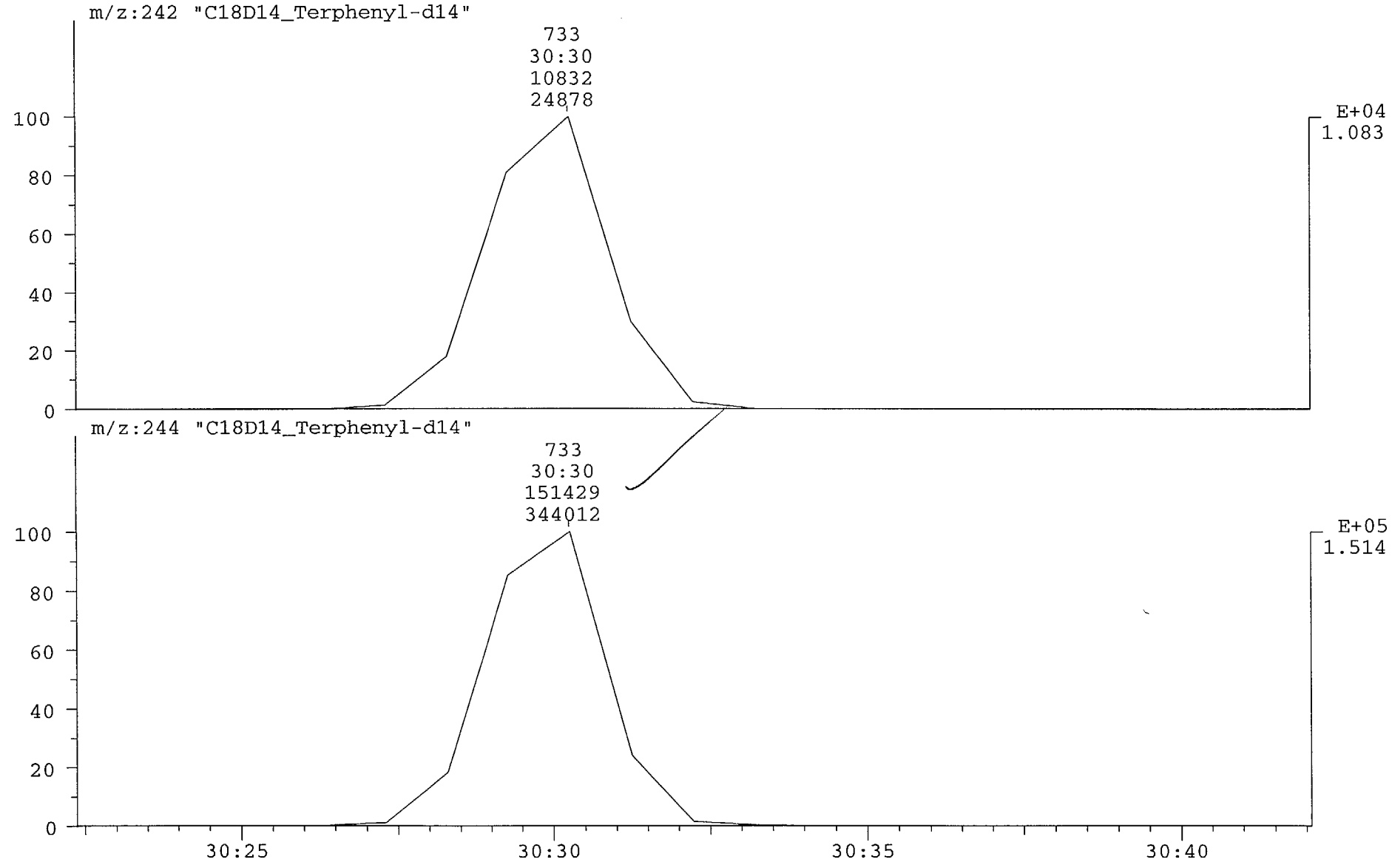
CHRO: yh2h232 27-APR-06 Elapse: 15:36.1 1
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



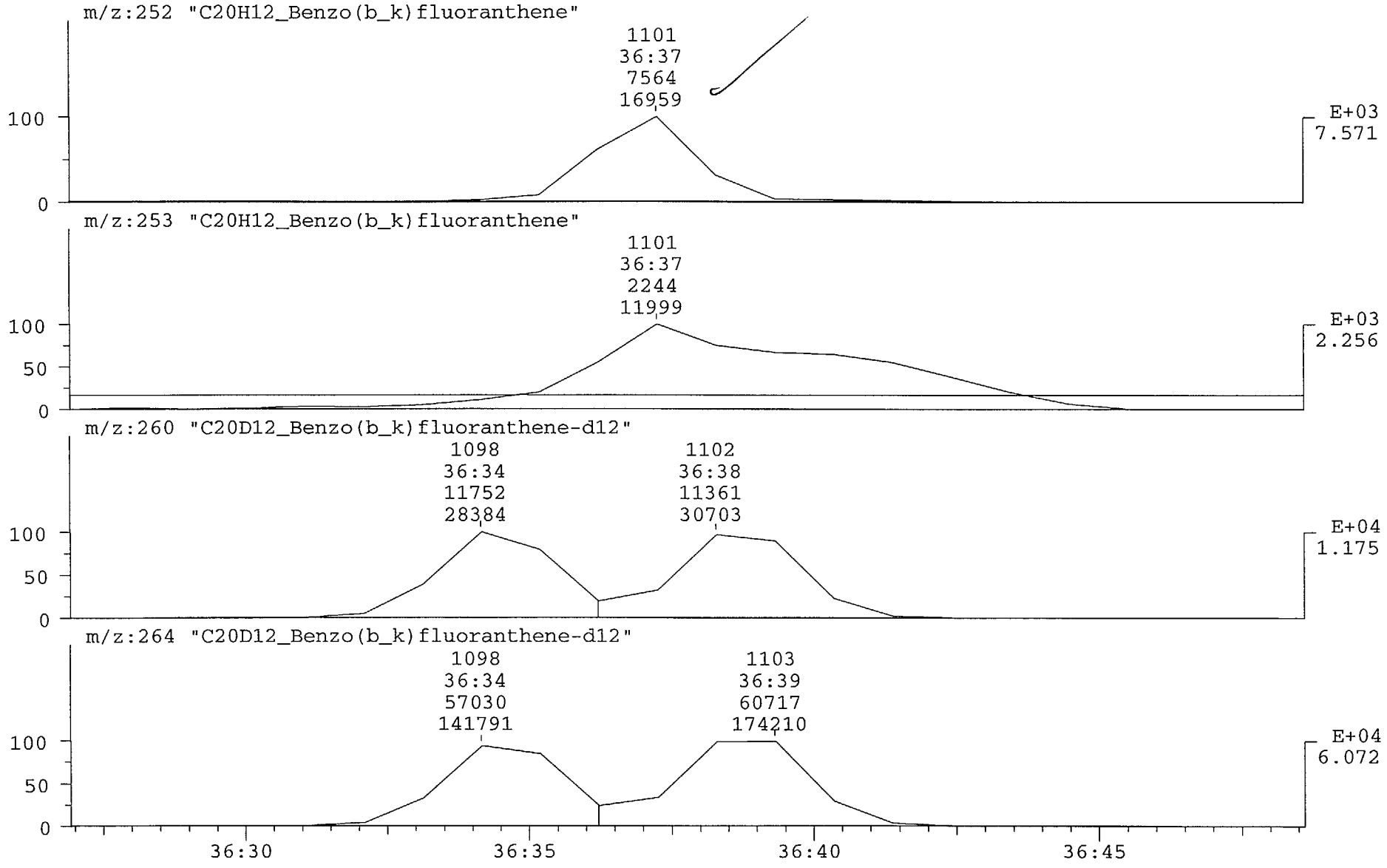
CHRO: yh2h232 27-APR-06 Elapse: 15:36.1 1
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



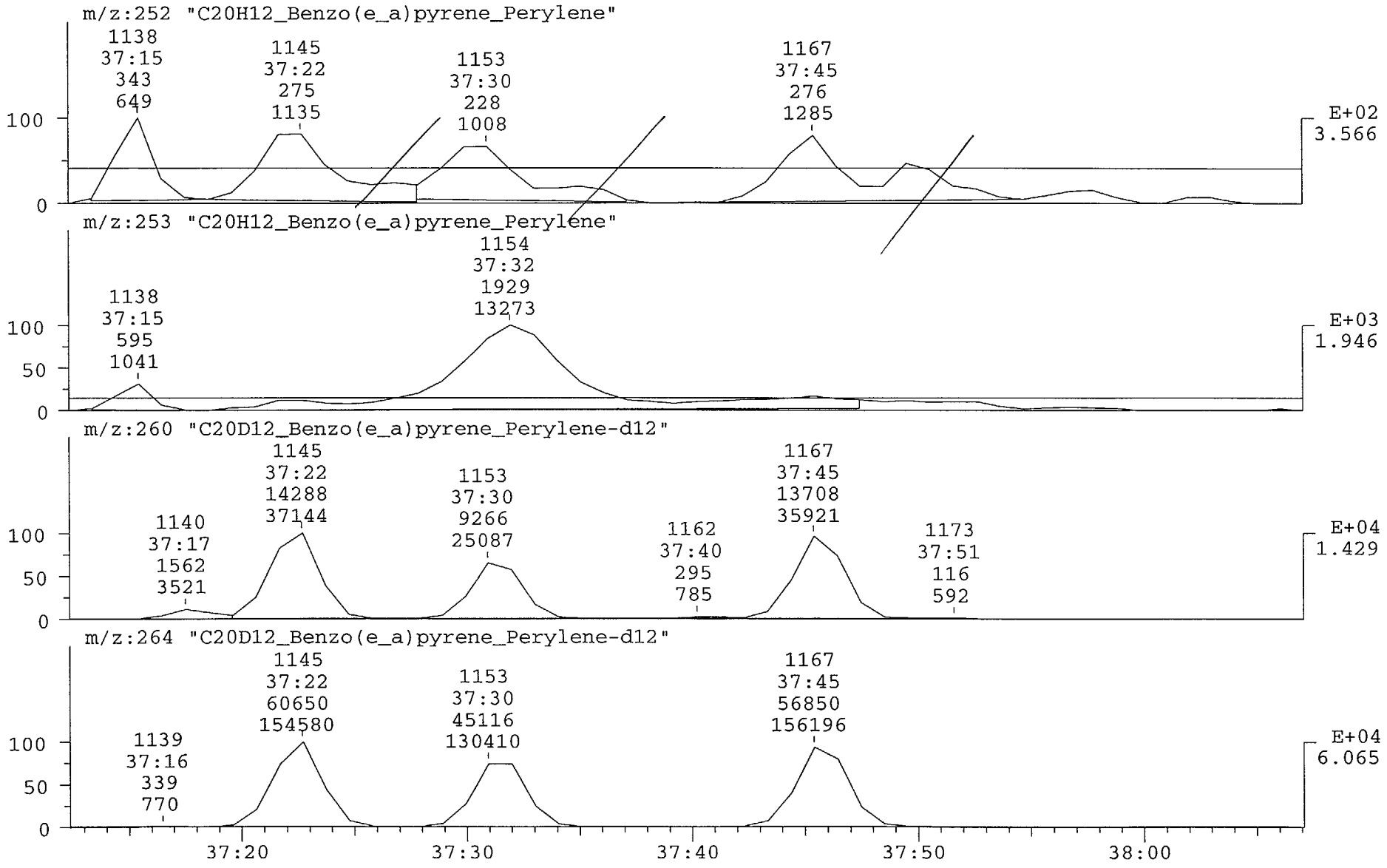
```
CHRO:  yh2h232                                27-APR-06   Elapse:  15:36.1       1
Samp:  WO=h2h231aa Meth=YA1 Dil=1                         Start :  22:18:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :  6100060
Oper:  JMN           Client:  H6D030241-010               Inlet :
Peak:  100.00  ppm     Label wndw:   725 > 745            Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :  -2, 3.0
Disp:  Height  Area
```



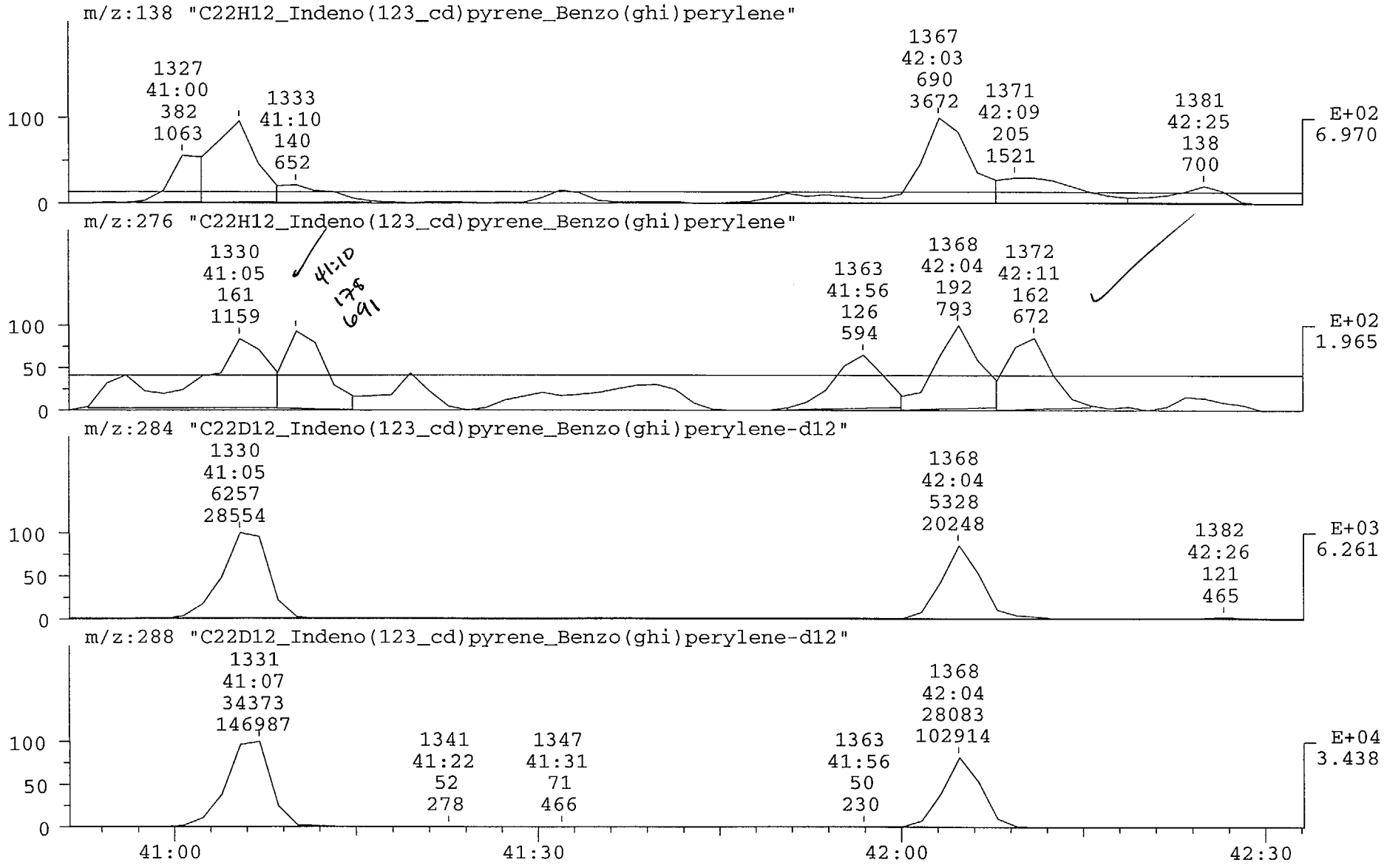
CHRO: yh2h232 27-APR-06 Elapse: 15:36.1 1
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



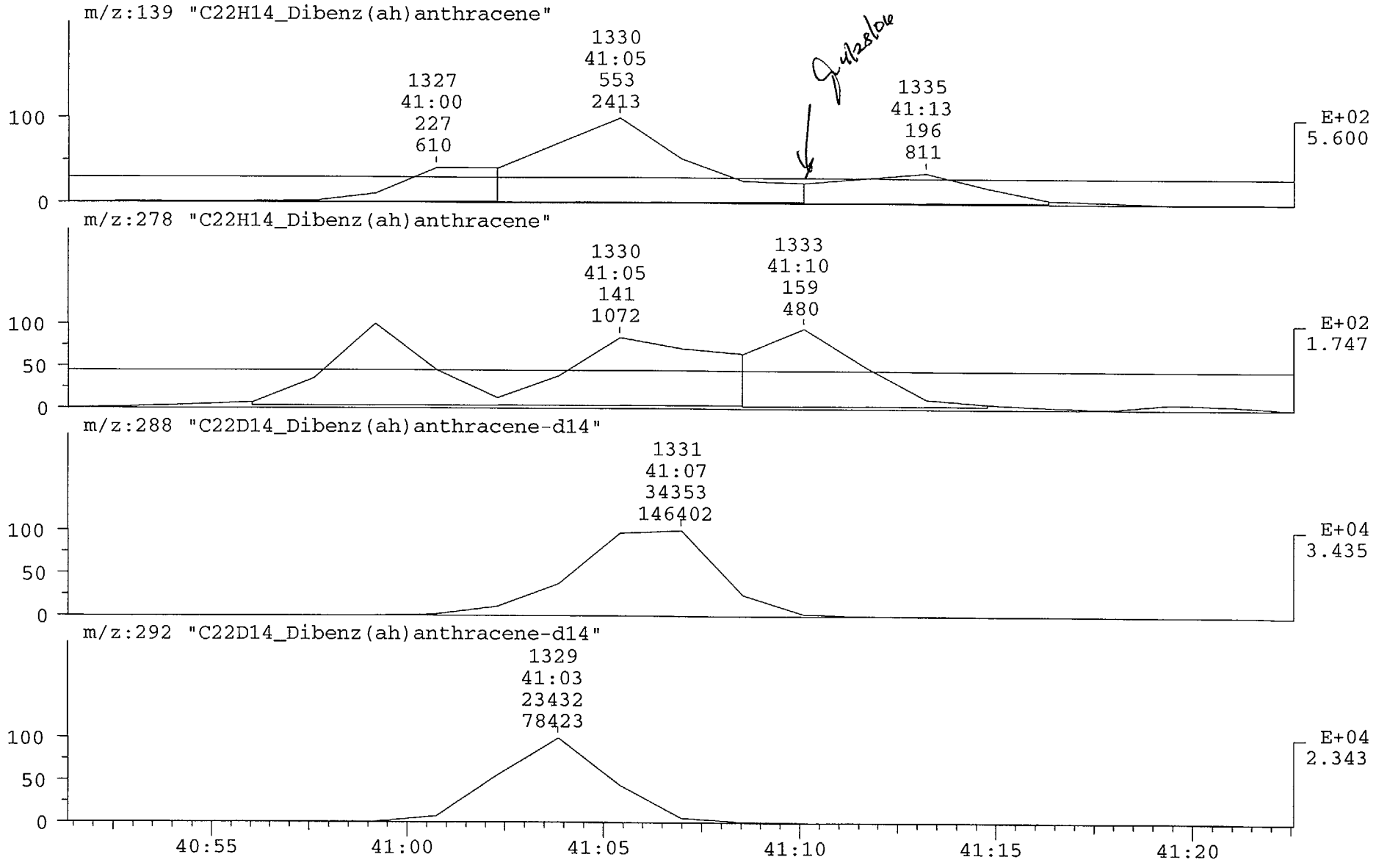
CHRO: yh2h232 27-APR-06 Elapse: 15:36.1 1
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h232 27-APR-06 Elapse: 15:36.1 1
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h232 27-APR-06 Elapse: 15:36.1 1
Samp: WO=h2h231aa Meth=YA1 Dil=1 Start : 22:18:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D030241-010 Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2H232.D
Date Acquired: 27 Apr 2006  10:18 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H231AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  21
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Thu Apr 27 23:04:08 2006
d:\cdffiles\YH2H232.CDF Translated at Thu Apr 27 23:04:08 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 17:30:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h232.dat
NetCDF File (input): /usr/users/hp/data/yh2h232.cdf

Number of Scans: 1384

Processing scan data from NetCDF file, please wait ...

Processed 10% of the scans (1 - 138)
Processed 20% of the scans (139 - 276)
Processed 30% of the scans (277 - 414)
Processed 40% of the scans (415 - 552)
Processed 50% of the scans (553 - 690)
Processed 60% of the scans (691 - 828)
Processed 70% of the scans (829 - 966)
Processed 80% of the scans (967 - 1104)
Processed 90% of the scans (1105 - 1242)

Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 17:30:02 EDT 2006

  # 1   11:00 min    7:30 min   18:30 min    1.00 sec
  # 2   18:30 min    3:30 min   22:00 min    1.00 sec
  # 3   22:00 min    6:30 min   28:30 min    1.00 sec
  # 4   28:30 min    6:30 min   35:00 min    1.00 sec
  # 5   35:00 min    4:00 min   39:00 min    1.00 sec
  # 6   39:00 min   12:00 min   51:00 min    1.00 sec
```

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	**Work Order #....:**	H2H241AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**2.0**	**B J**	**20**	**0.65**	**ng/sampl**
Acenaphthylene	**3.3**	**J**	**20**	**0.24**	**ng/sampl**
Anthracene	ND		20	0.37	ng/sampl
Benzo(a)anthracene	ND		20	0.21	ng/sampl
Benzo(b)fluoranthene	**4.1**	**B J**	**20**	**0.85**	**ng/sampl**
Benzo(k)fluoranthene	ND		20	1.1	ng/sampl
Benzo(ghi)perylene	**7.5**	**J**	**20**	**0.31**	**ng/sampl**
Benzo(a)pyrene	**4.3**	**B J**	**20**	**1.2**	**ng/sampl**
Benzo(e)pyrene	**3.2**	**B J**	**20**	**1.0**	**ng/sampl**
Chrysene	ND		20	0.23	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.35	ng/sampl
Fluoranthene	**7.3**	**B J**	**20**	**0.11**	**ng/sampl**
Fluorene	**6.4**	**B J**	**20**	**0.38**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**4.1**	**B J**	**20**	**0.33**	**ng/sampl**
2-Methylnaphthalene	**17**	**B J**	**20**	**0.33**	**ng/sampl**
Naphthalene	**35**	**B J**	**20**	**0.29**	**ng/sampl**
Perylene	ND		20	1.1	ng/sampl
Phenanthrene	**49**	**B**	**20**	**0.32**	**ng/sampl**
Pyrene	**5.0**	**B J**	**20**	**0.11**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	97	15 - 120
2-Methylnaphthalene-d10	99	20 - 120
Acenaphthylene-d8	108	20 - 120
Phenanthrene-d10	114	30 - 120
Fluoranthene-d10	114	30 - 120
Benzo(a)anthracene-d12	120	30 - 120
Chrysene-d12	107	30 - 120
Benzo(b)fluoranthene-d12	108	30 - 120
Benzo(k)fluoranthene-d12	109	30 - 120
Benzo(a)pyrene-d12	116	30 - 120
Perylene-d12	113	30 - 120
Indeno(1,2,3-cd)pyrene-d12	113	30 - 120
Dibenz(ah)anthracene-d14	115	30 - 120
Benzo(ghi)perylene-d12	111	30 - 120

STL Knoxville - ACS

Sample ID: G-3109/3110-R3-MM5 FRONT HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 011	**Work Order #....:**	H2H241AA	**Matrix....:**	AIR
Date Sampled....:	03/30/06	**Date Received....:**	04/02/06	**Dilution Factor:**	1
Prep Date....:	04/10/06	**Analysis Date....:**	04/19/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H241AA	**Prep Batch**	6100051	**Lot No**	H6D030241-011
Data File	/20060418s2/yh2h24.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90191	**Prep Exp Date**	04/20/06	**Date Received**	04/02/06
Analysis Date	4/19/2006	**Matrix**	AIR	**Date Sampled**	03/30/06
Analysis Time	00:17	**Initial Wt/Vol**	1	**Lims Test Code**	XXSINYA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	141316	46103	1.748	500.0	484.498637	96.90	484.498637		0.361
Naphthalene	16:01	12019	3648	1.211		35.121761		35.121761	B J	0.291
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:03	3855	1637	1.269		16.651329		16.651329	BJ	0.334
2-Methylnaphthalene-d10	17:58	91248	38309	1.104	500.0	495.406374	99.08	495.406374		0.476
1-Methylnaphthalene	18:23	1979	827	1.365		8.955586		8.955586	BJ	0.385
1-Methylnaphthalene-d10	18:17	80961	30936	0.958	500.0	506.281187	101.26	506.281187		0.549
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	1215	531	1.533		4.343514		4.343514	J	0.532
2,6-Dimethylnaphthalene	19:56	1459	553	1.249		6.834873		6.834873	J B	1.18
2,6-Dimethylnaphthalene-d1	19:47	85428	39168	0.977	500.0	524.182856	104.84	524.182856		0.431
C2 Alkylnaphthalenes				1.249		6.834873		6.834873	J	0.998
Acenaphthylene	20:48	1162	408	1.244		3.343411		3.343411	J	0.239
Acenaphthylene-d8	20:46	139744	63081	1.548	500.0	540.969604	108.19	540.969604		0.181
Acenaphthene-d10	21:16	83425	35662	1.000	500.0	500.000000	100.00	500.000000		0.491
Acenaphthene	21:21	418	179	0.762		1.961920		1.961920	BJ	0.650
2,3,5-Trimethylnaphthalene	22:31	539	190	1.127		2.799038		2.799038	J	0.340
C3 Alkylnaphthalenes				1.127		2.799038		2.799038	J	0.289
Fluorene d-10				0.837	1000			ND		0.185
Fluorene-C13				0.796	1000			ND		0.194
Fluorene	22:52	1633	720	0.915		6.386677		6.386677	BJ	0.381
Phenanthrene-d10	25:43	139718	64569	0.753	500.0	571.995993	114.40	571.995993		0.161
Phenanthrene	25:47	16663	7574	1.216		49.024407		49.024407	B	0.318
Anthracene-d10					500.0			ND		0.000000
Anthracene				1.059				ND		0.366
1-Methylphenanthrene	27:40	657	312	0.870		2.701578		2.701578	J	0.289
Fluoranthene-d10	29:21	133962	60432	0.727	500.0	568.556870	113.71	568.556870		0.358
Fluoranthene	29:24	2592	1170	1.334		7.253461		7.253461	BJ	0.109
Pyrene-d10	30:02	162146	72157	1.000	500.0	500.000000	100.00	500.000000		0.260
Pyrene	30:05	1850	822	1.369		5.044488		5.044488	BJ	0.106
Terphenyl-d14				0.796	1000			ND		0.0520
Benzo(a)Anthracene-d12	33:37	101686	44871	0.521	500.0	601.863958	120.37	601.863958		0.565
Benzo(a)anthracene				1.454				ND		0.211
Chrysene-d12	33:44	96772	43925	0.557	500.0	536.008501	107.20	536.008501		0.529
Chrysene				1.363				ND		0.230
Benzo(b)Fluoranthene-d12	36:35	91651	38024	0.847	500.0	538.128824	107.63	538.128824		0.454
Benzo(k)Fluoranthene-d12	36:39	109947	38958	1.002	500.0	545.507683	109.10	545.507683		0.384
Benzo(b)fluoranthene	36:39	1140	497	1.508		4.125246		4.125246	BJ	0.850
Benzo(k)fluoranthene				1.136				ND		1.10
Benzo(e)pyrene-d12	37:23	100527	38983	1.000	500.0	500.000000	100.00	500.000000		0.385
Benzo(e)pyrene	37:27	862	304	1.589		3.153194		3.153194	BJ	1.03
Benzo(a)Pyrene-d12	37:32	86047	29773	0.737	500.0	580.775597	116.16	580.775597		0.522
Benzo(a)pyrene	37:36	987	276	1.333		4.303550		4.303550	BJ	1.23
Perylene-d12	37:46	100791	36349	0.887	500.0	565.483332	113.10	565.483332		0.434
Perylene				1.178				ND		1.14
3-Methylcholanthrene								ND		0.000000

VMC 4/25/06 4/27/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H241AA	**Prep Batch**	6100051	**Lot No**	H6D030241-011
Data File	/20060418s2/yh2h24.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90191	**Prep Exp Date**	04/20/06	**Date Received**	04/02/06
Analysis Date	4/19/2006	**Matrix**	AIR	**Date Sampled**	03/30/06
Analysis Time	00:17	**Initial Wt/Vol**	1	**Lims Test Code**	XXSINYA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	46800	14058	0.405	500.0	575.328132	115.07	575.328132		0.713
Indeno(1,2,3-cd)pyrene-d12	41:07	88346	20687	0.779	500.0	564.052824	112.81	564.052824		0.247
Indeno(1,2,3-cd)pyrene	41:13	940	206	1.297		4.102421		4.102421	BJ	0.326
Dibenz(a,h)anthracene				2.059				ND		0.346
Benzo(ghi)Perylene-d12	42:06	62650	16678	0.559	500.0	557.162055	111.43	557.162055		0.344
Benzo(ghi)perylene	42:12	1601	386	1.698		7.524252		7.524252	BJ	0.309
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H241AA	**Prep Batch**	6100051	**Lot No**	H6D030241-011
Data File	/20060418s2/yh2h24.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90191	**Prep Exp Date**	04/20/06	**Date Received**	04/02/06
Analysis Date	04/19/06 00:17	**Matrix**	AIR	**Date Sampled**	03/30/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSINYA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	33		13				
	Naphthalene	16:01	16:01	0	12019		3648			ABB	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	45		18				
	Naphthalene-d8	15:58	15:57	1	141316		46103			ABV	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	33		13				
	2-Methylnaphthalene	18:03	18:03	0	3855		1637			ABB	M
	1-Methylnaphthalene	18:23	18:23	0	1979		827			ABB	M
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	38		15				
	2-Methylnaphthalene-d10	17:58	17:58	0	91248		38309			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	80961		30936			AVV	
	Acenaphthylene	20:48	20:48	0	1162		408			MVB	
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	63		25				
	Biphenyl	19:27	19:26	1	1215		531			ABB	
	Acenaphthene	21:21	21:22	-1	418		179			MVV	M
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	115		46				
	2,6-Dimethylnaphthalene	19:56	19:55	1	1459		553			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	20		8				
	Acenaphthylene-d8	20:46	20:47	-1	139744		63081			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	25		10				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	35		14				
	Acenaphthene-d10	21:16	21:16	0	83425		35662			ABV	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	45		18				
	Fluorene	22:52	22:52	0	1633		720			MBB	M
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	30		12				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	85428		39168			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	35		14				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	30		12				
	2,3,5-Trimethylnaphthal	22:31	22:29	2	539		190			AVB	M
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	20		8				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H241AA	**Prep Batch**	6100051	**Lot No**	H6D030241-011
Data File	/20060418s2/yh2h24.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90191	**Prep Exp Date**	04/20/06	**Date Received**	04/02/06
Analysis Date	04/19/06 00:17	**Matrix**	AIR	**Date Sampled**	03/30/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSINYA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	20		8				
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	50		20				
	Phenanthrene	25:47	25:48	-1	16663		7574			ABV	M
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene-d10	25:43	25:44	-1	139718		64569			ABV	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	33		13				
	1-Methylphenanthrene	27:40	27:41	-1	657		312			AVB	
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene	29:24	29:24	0	2592		1170			MBB	M
	Pyrene	30:05	30:05	0	1850		822			MBV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	38		15				
	Fluoranthene-d10	29:21	29:21	0	133962		60432			ABV	
	Pyrene-d10	30:02	30:02	0	162146		72157			AVV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	28		11				
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	43		17				
	Benzo(a)Anthracene-d12	33:37	33:36	1	101686		44871			ABV	
	Chrysene-d12	33:44	33:44	0	96772		43925			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	5		2				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	98		39				
	Benzo(b)fluoranthene	36:39	36:39	0	1140		497			MBV	M
	Unidentified	37:16	00:00	0	606		283			ABB	
	Benzo(e)pyrene	37:27	37:27	0	862		304			MBV	M
	Benzo(a)pyrene	37:36	37:36	0	987		276			AVB	M
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	30		12				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	91651		38024			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	109947		38958			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	100527		38983			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	86047		29773			AVV	
	Perylene-d12	37:46	37:46	0	100791		36349			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	78		31				
276					**276.0000**		**276.0000**				

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

PAH's by LRMS Extended List

IsoCalc

Workorder	H2H241AA	**Prep Batch**	6100051	**Lot No**	H6D030241-011
Data File	/20060418s2/yh2h24.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90191	**Prep Exp Date**	04/20/06	**Date Received**	04/02/06
Analysis Date	04/19/06 00:17	**Matrix**	AIR	**Date Sampled**	03/30/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSINYA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

View Small Peaks? False **View deleted peaks?** False

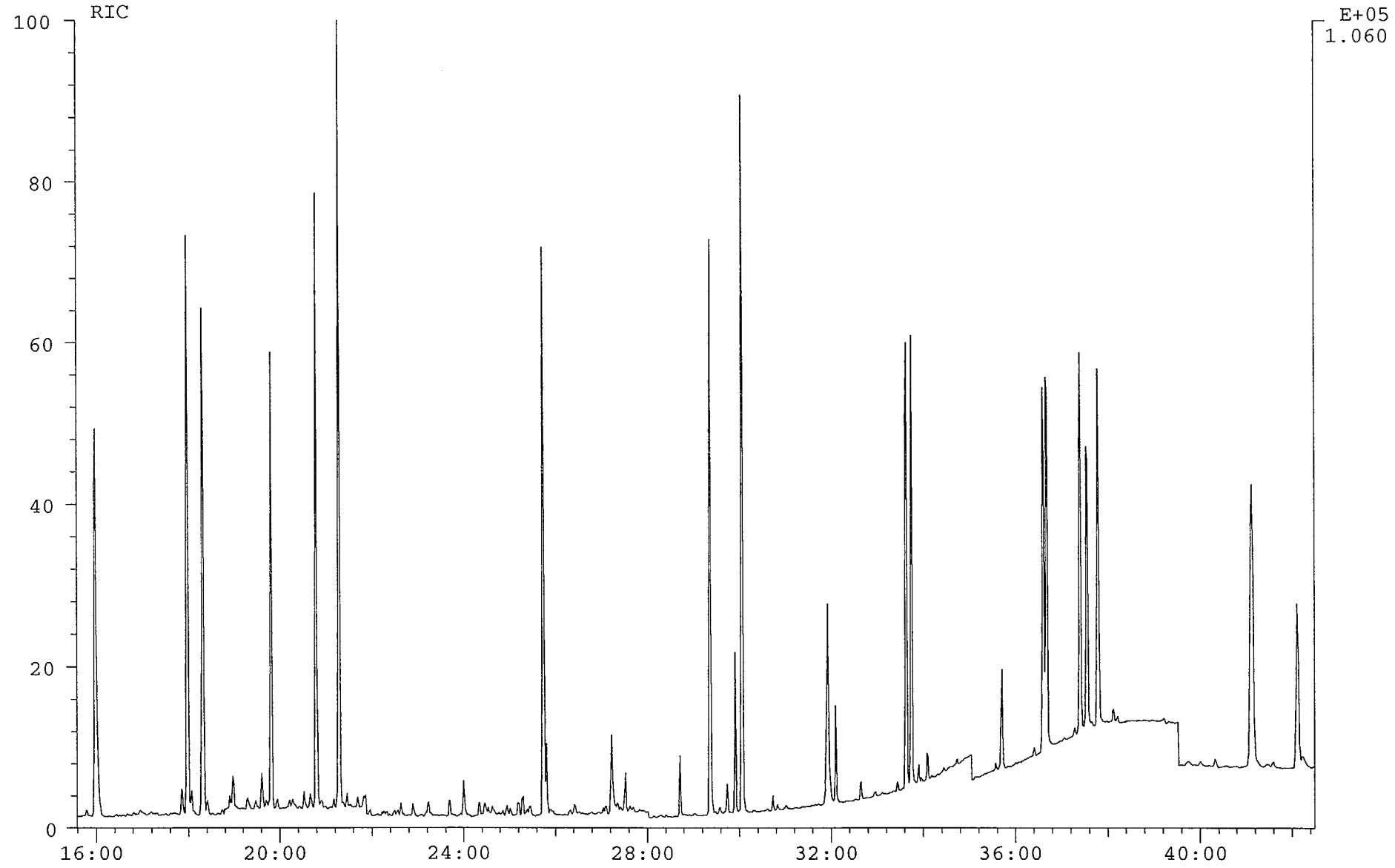
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	940		206			AVB	M
	Benzo(ghi)perylene	42:12	42:13	-1	1601		386			AVB	M
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	20		8				
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	88346		20687			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	62650		16678			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	23		9				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	46800		14058			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	13		5				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	10		4				

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

↑ Q x2 for all 4/20/06

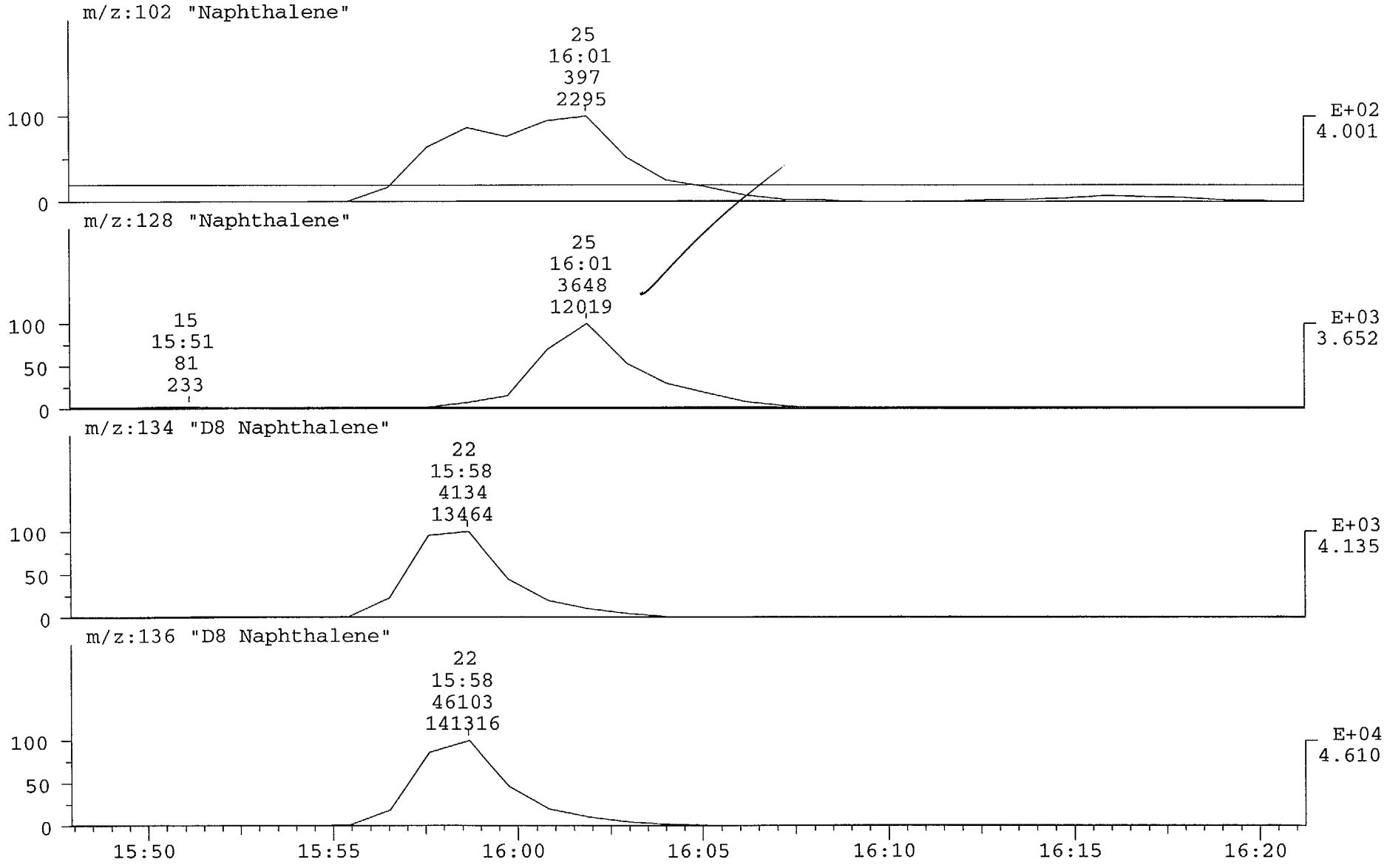
Lint/Calc: Q 4/20/06
QC/Rev JMIC 4/24/06

CHRO: yh2h24 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : ~~24~~:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i 00
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 1365 > 1373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area

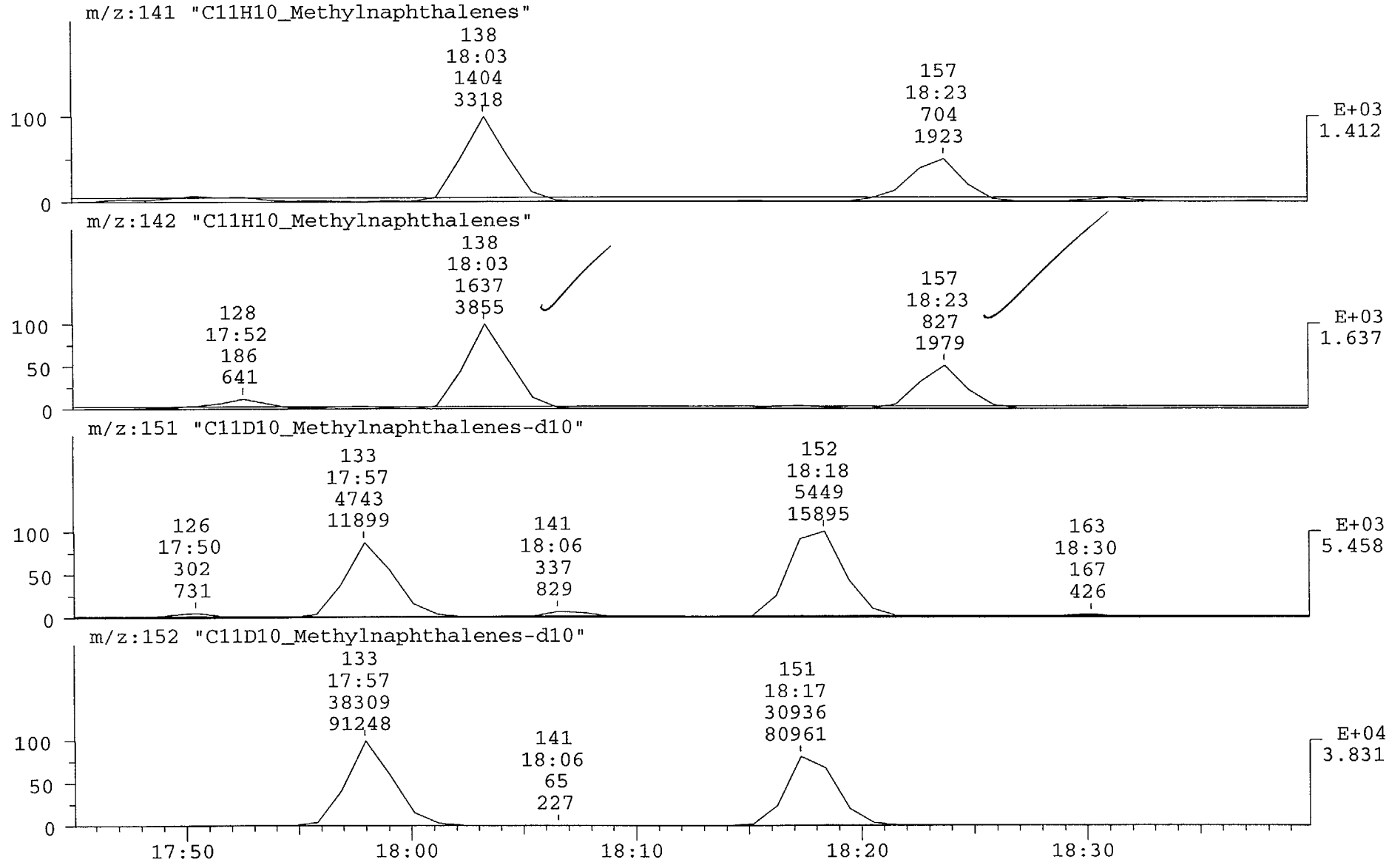


3734

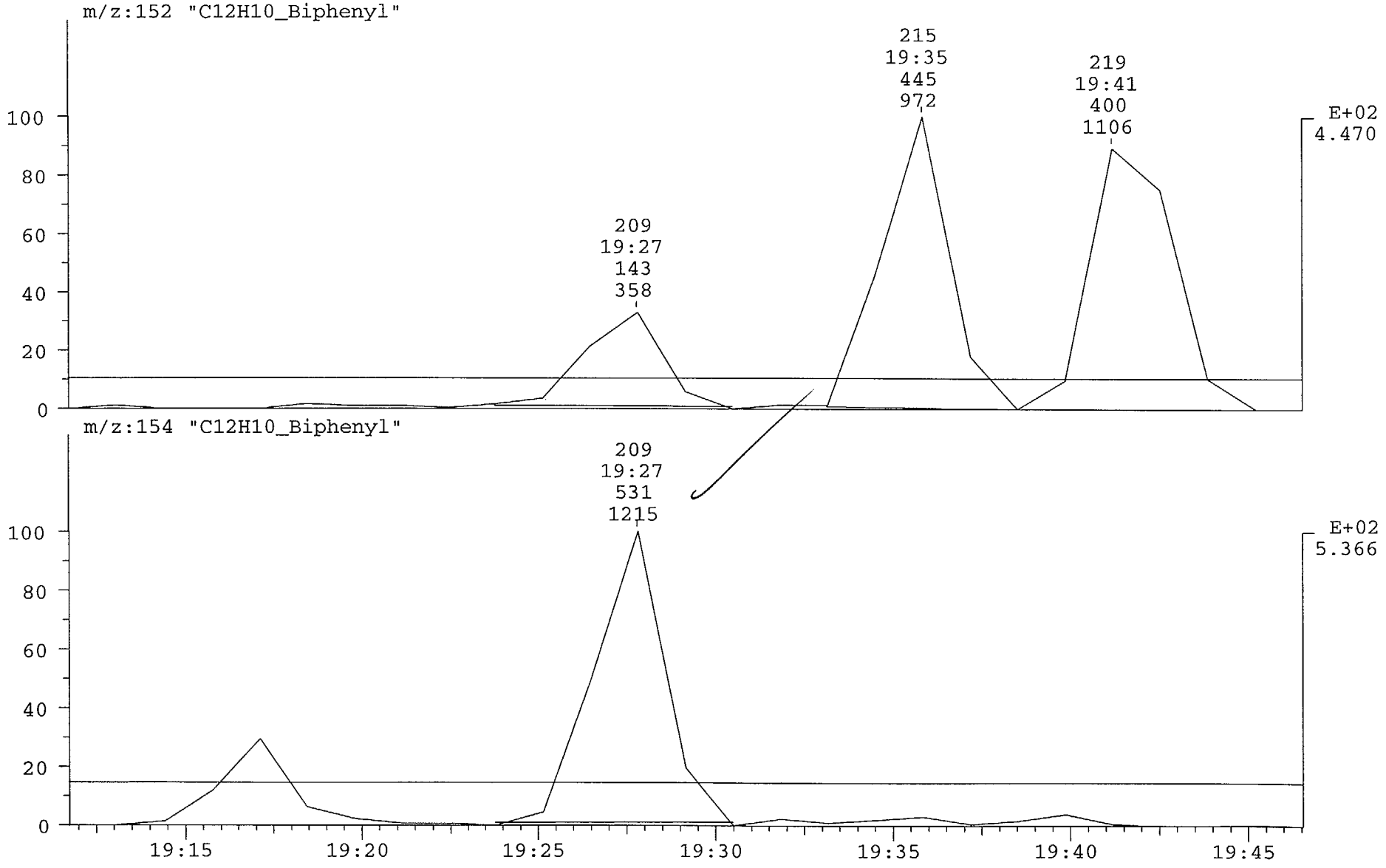
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



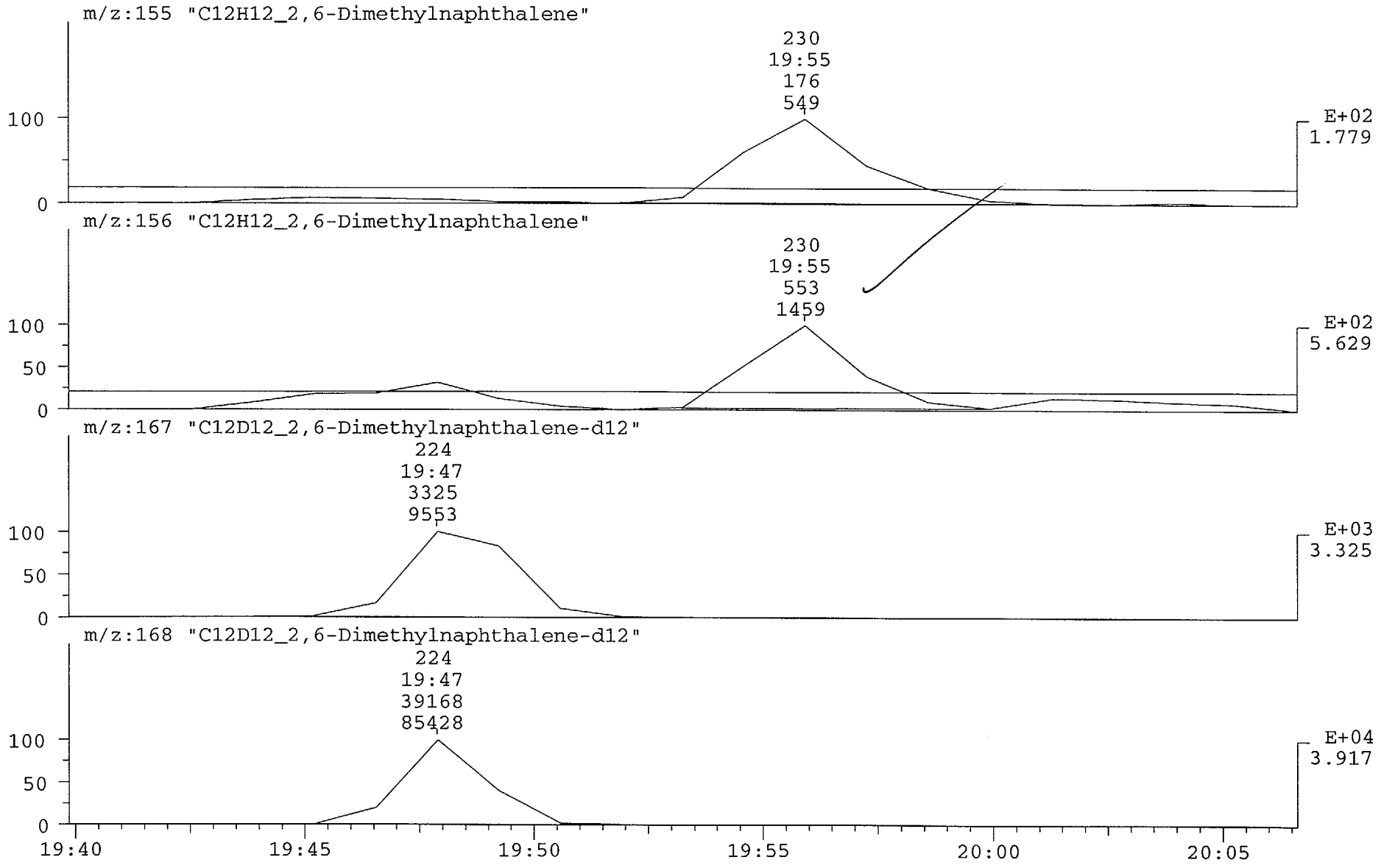
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



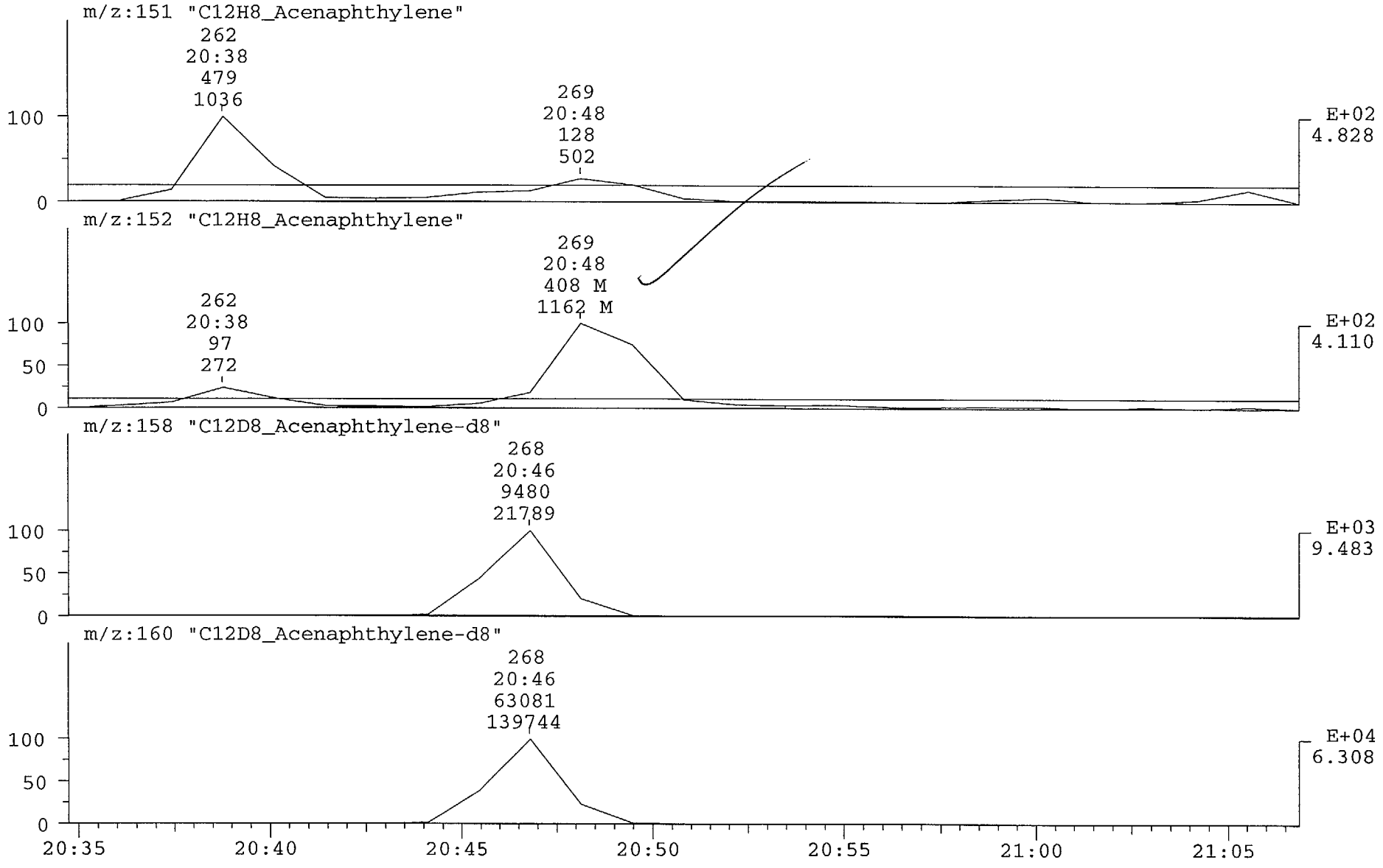
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



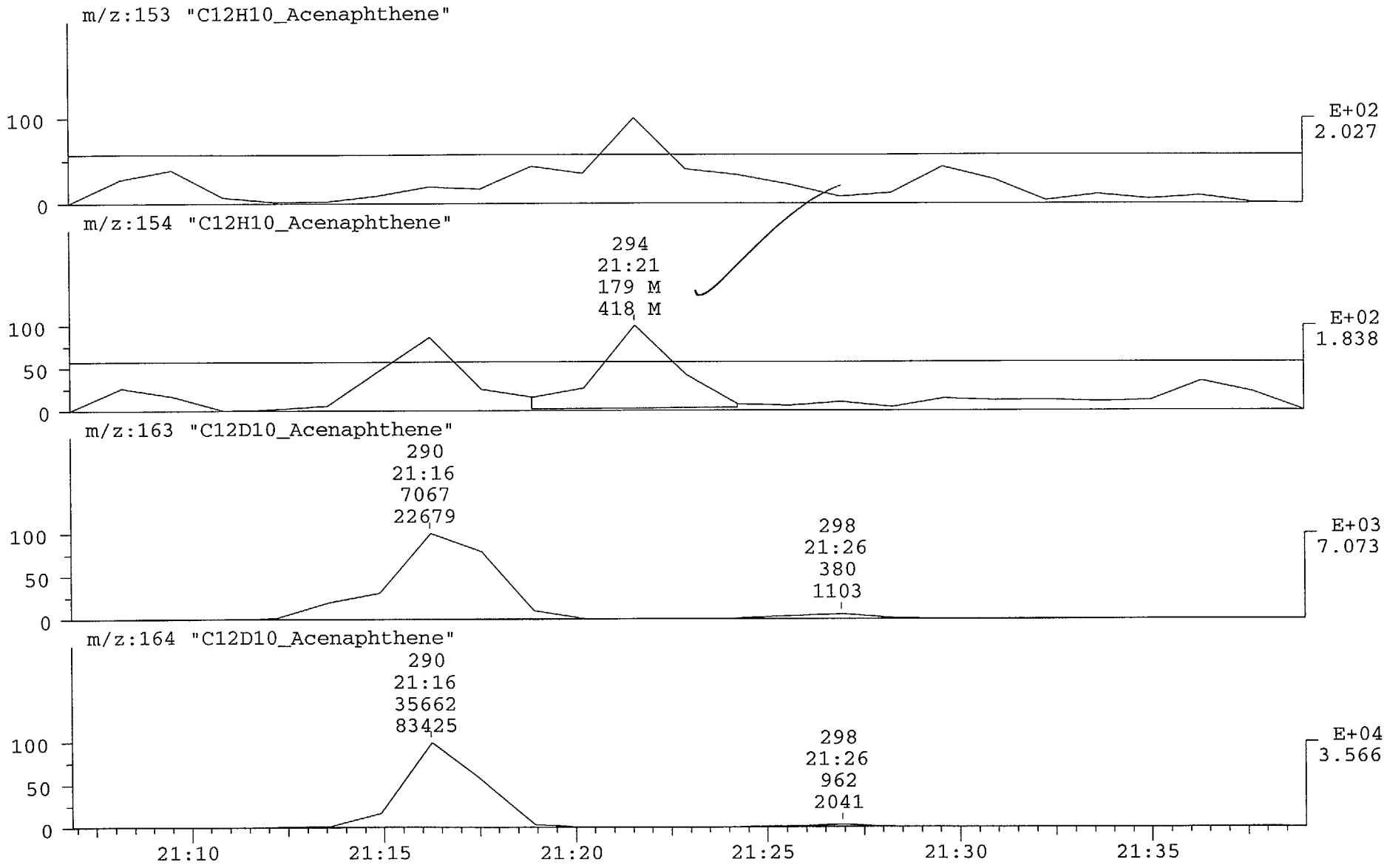
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



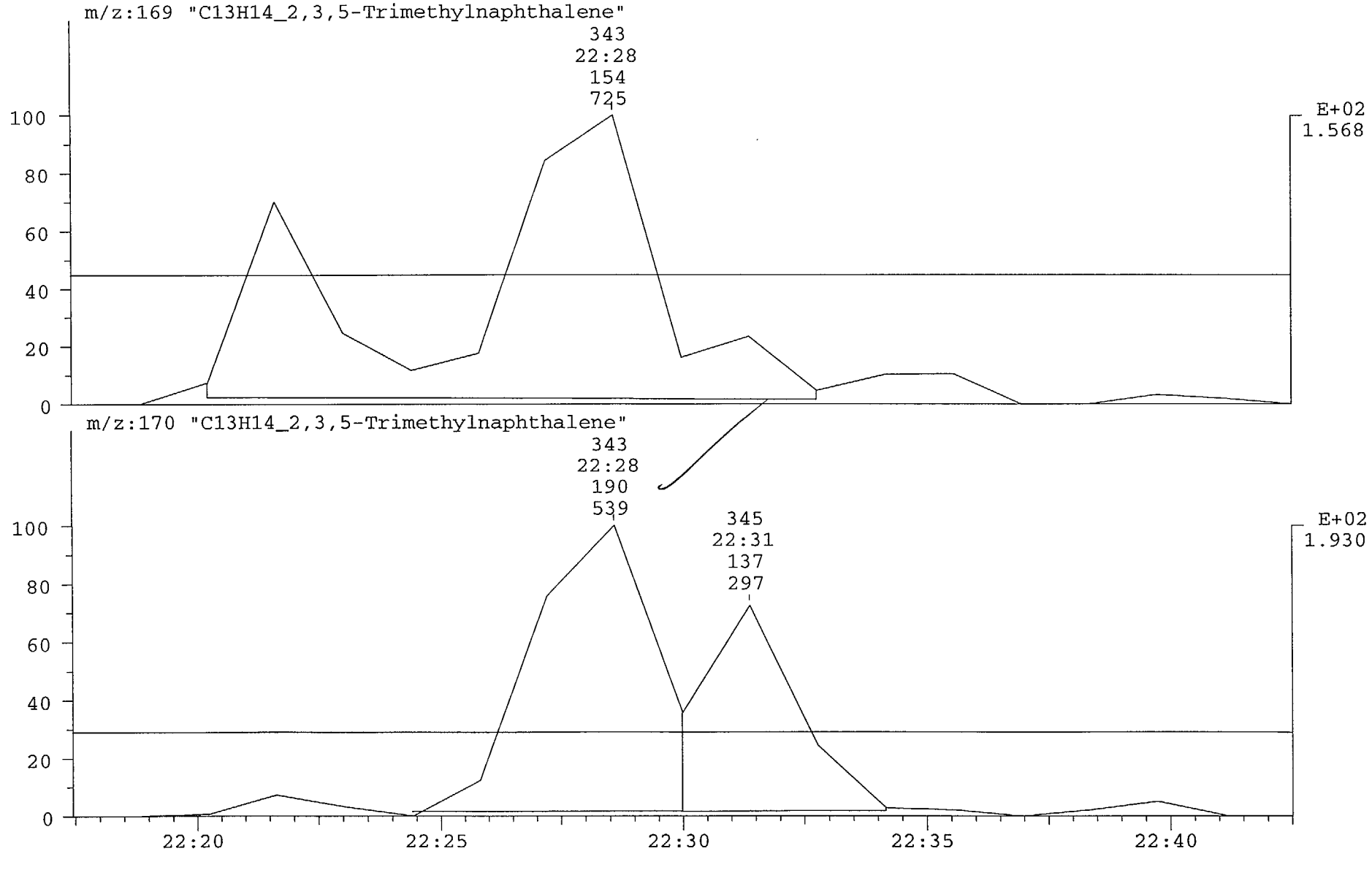
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



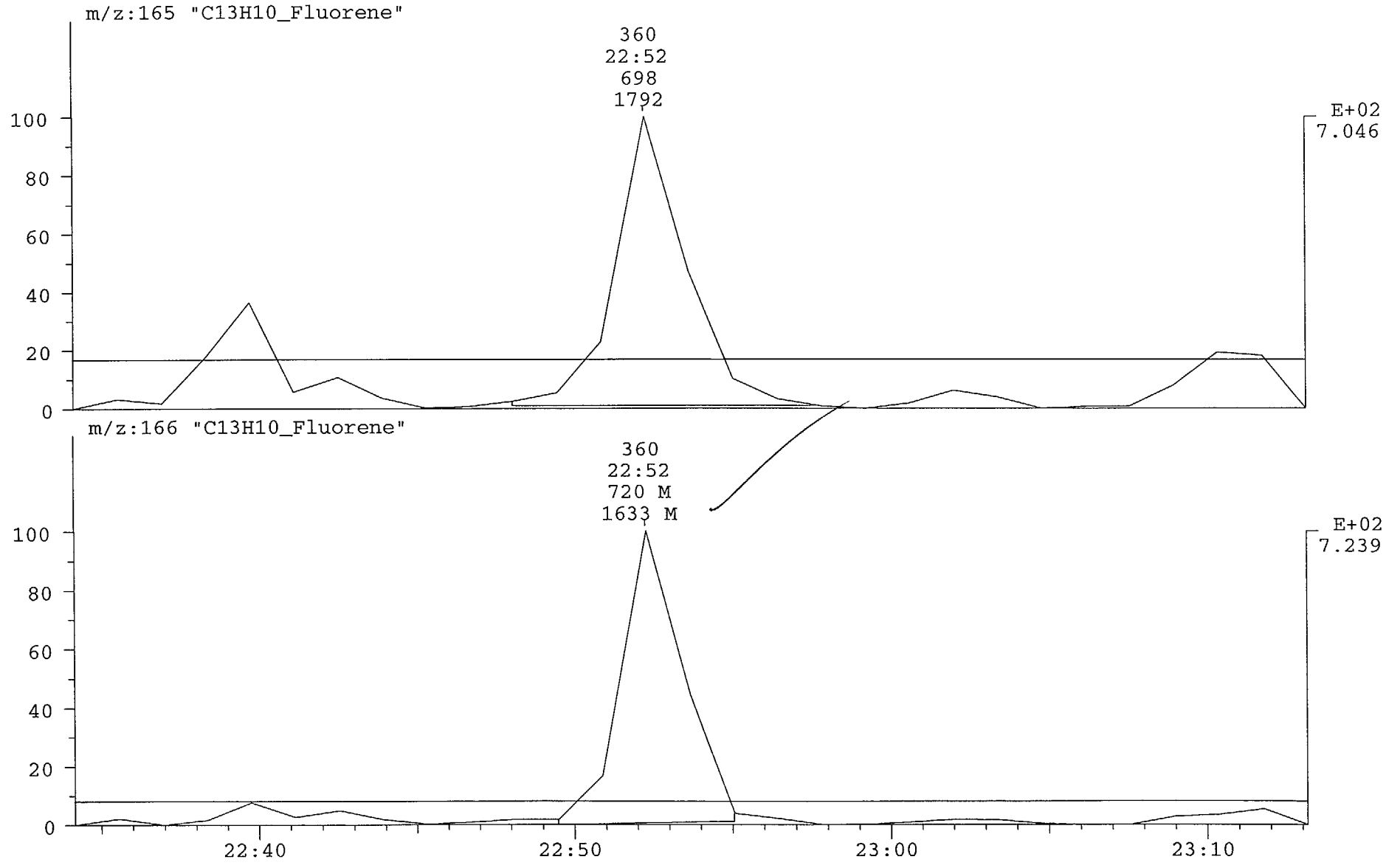
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



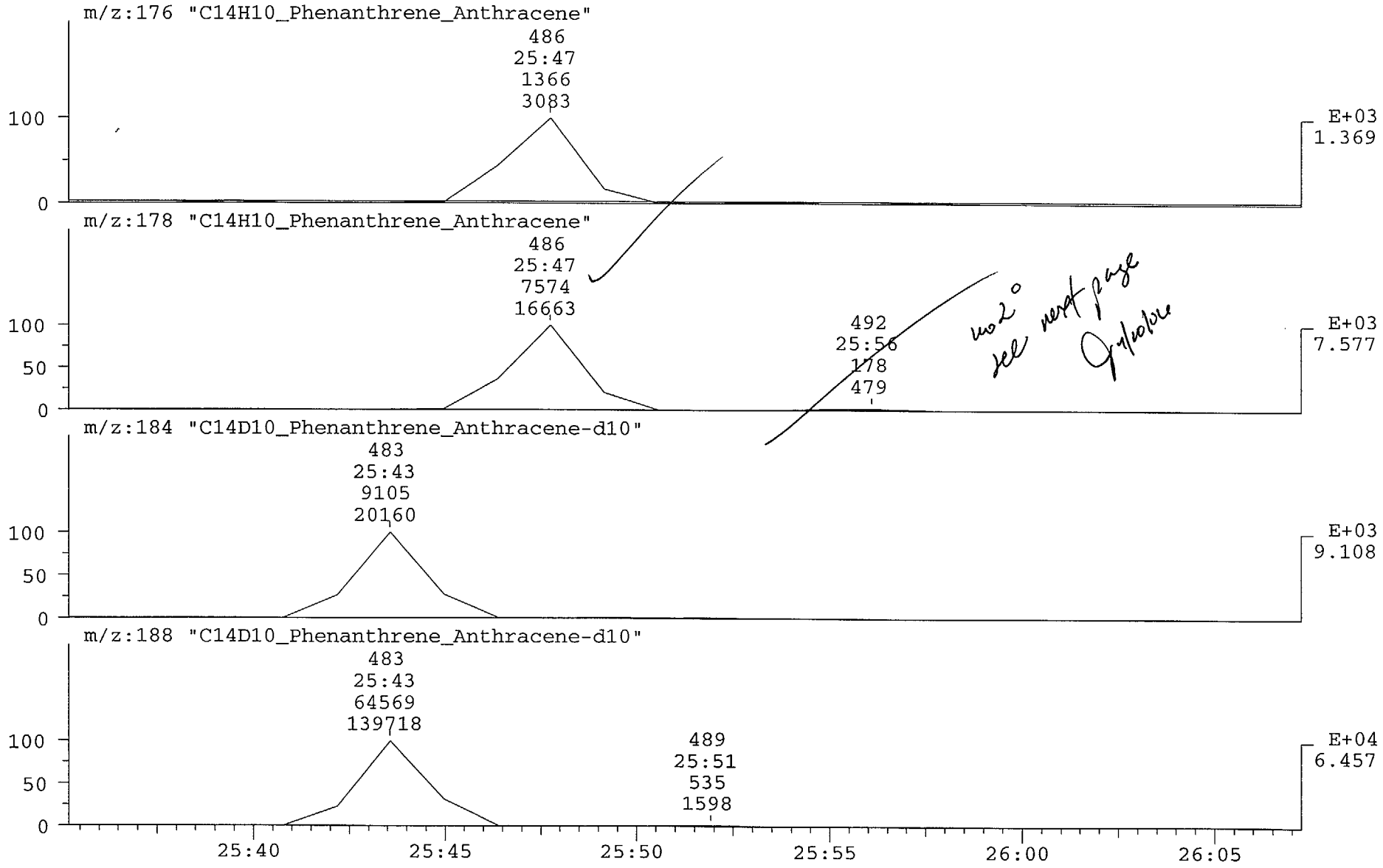
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

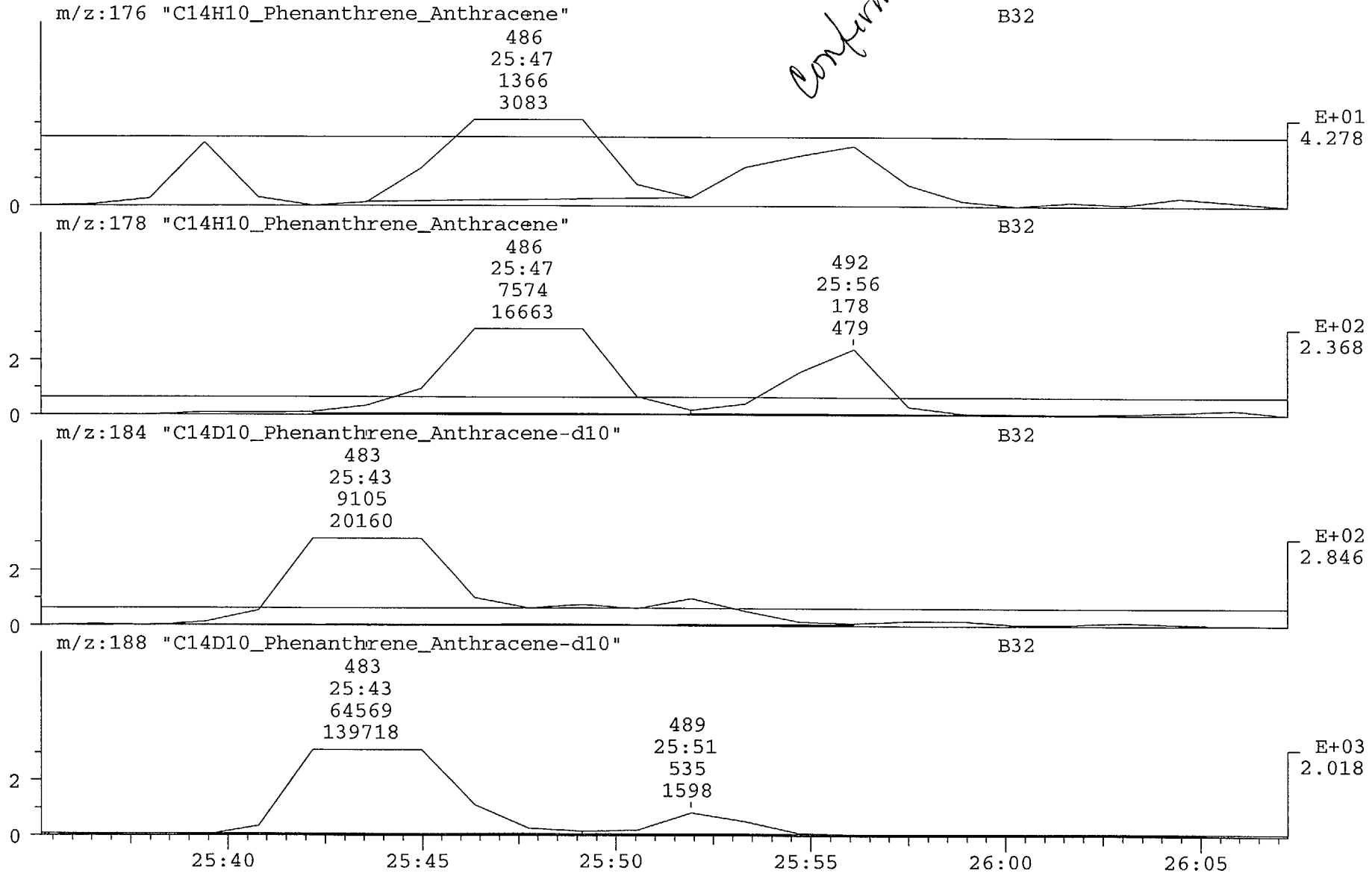


CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

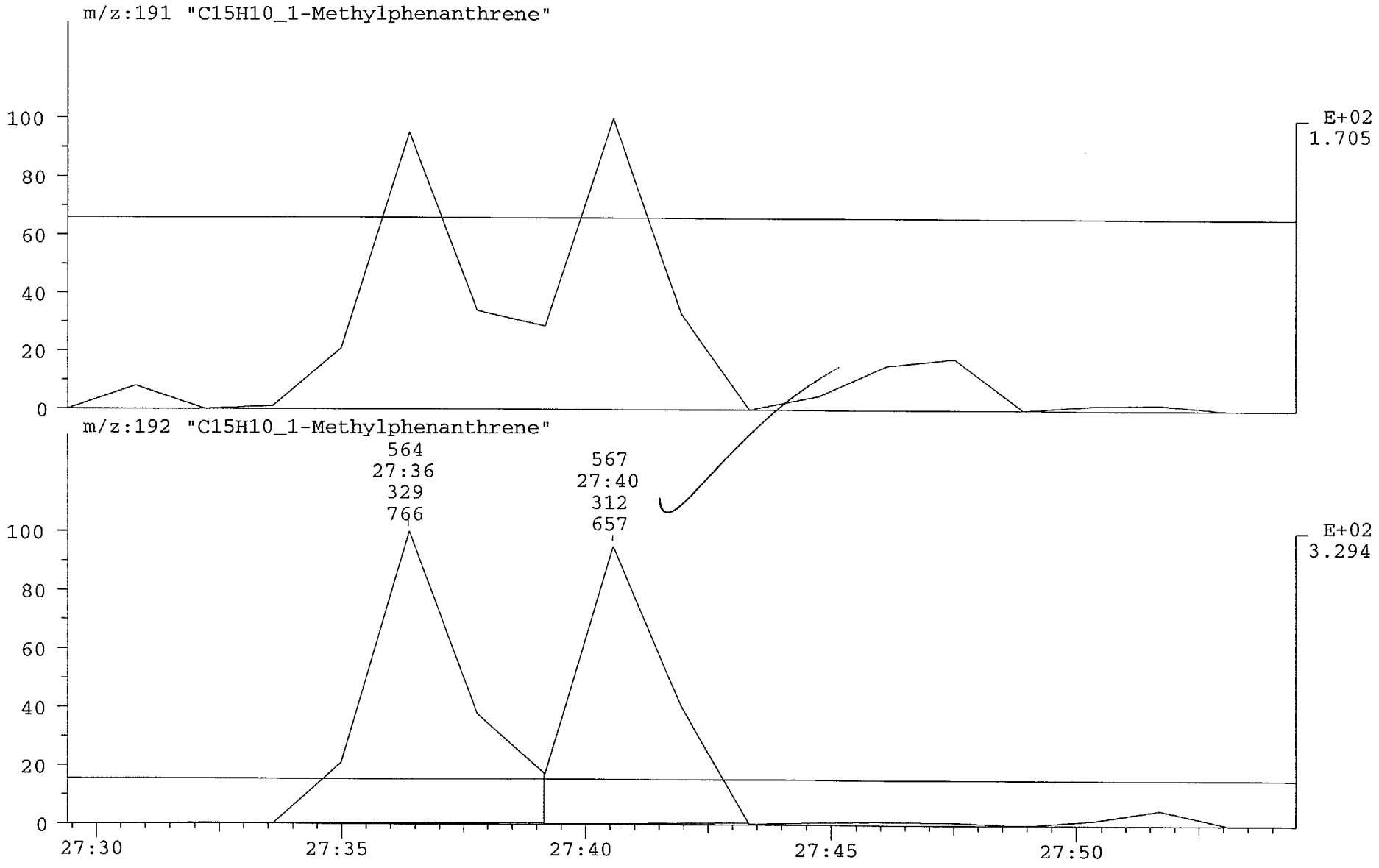


CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

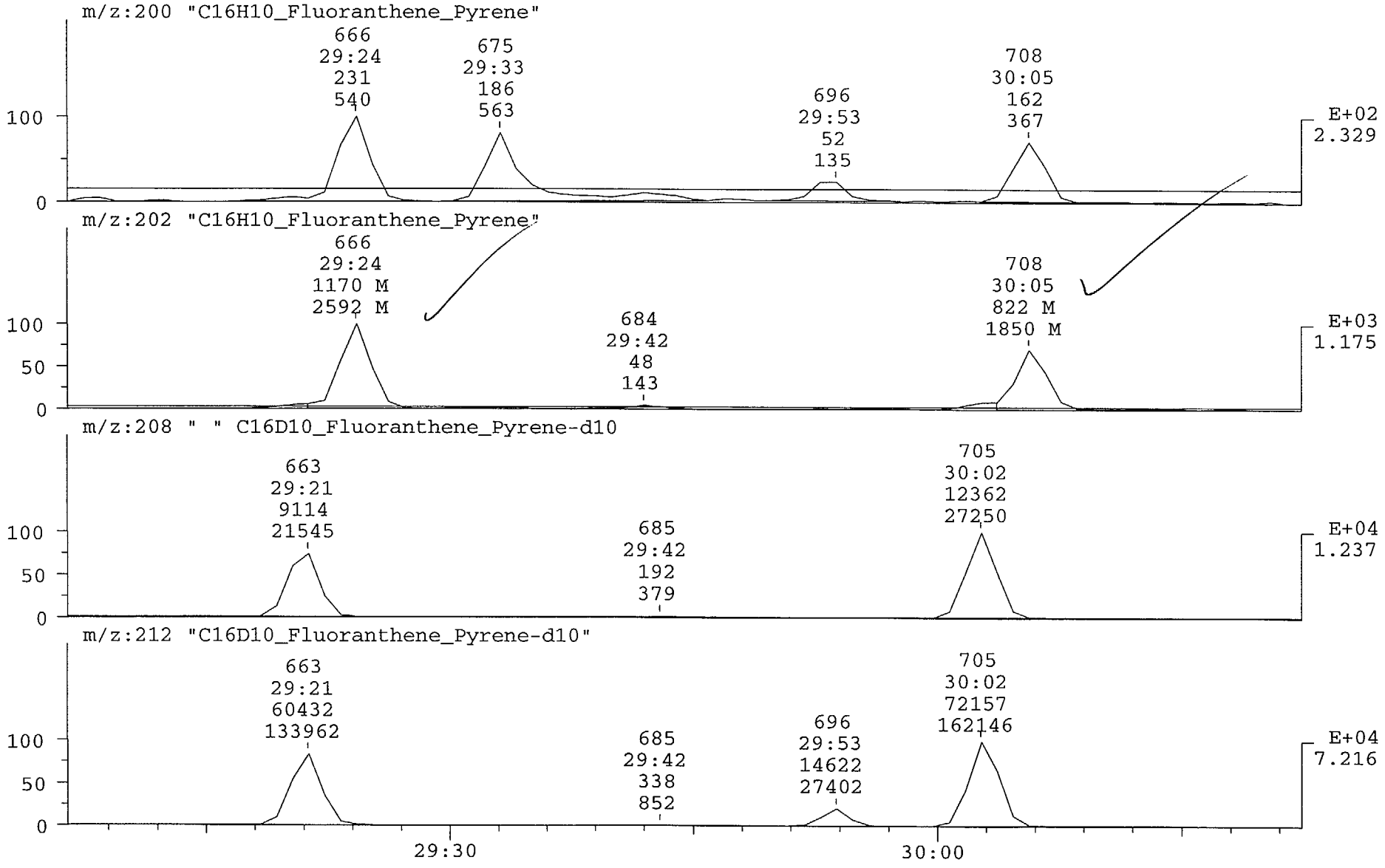
Confirmation



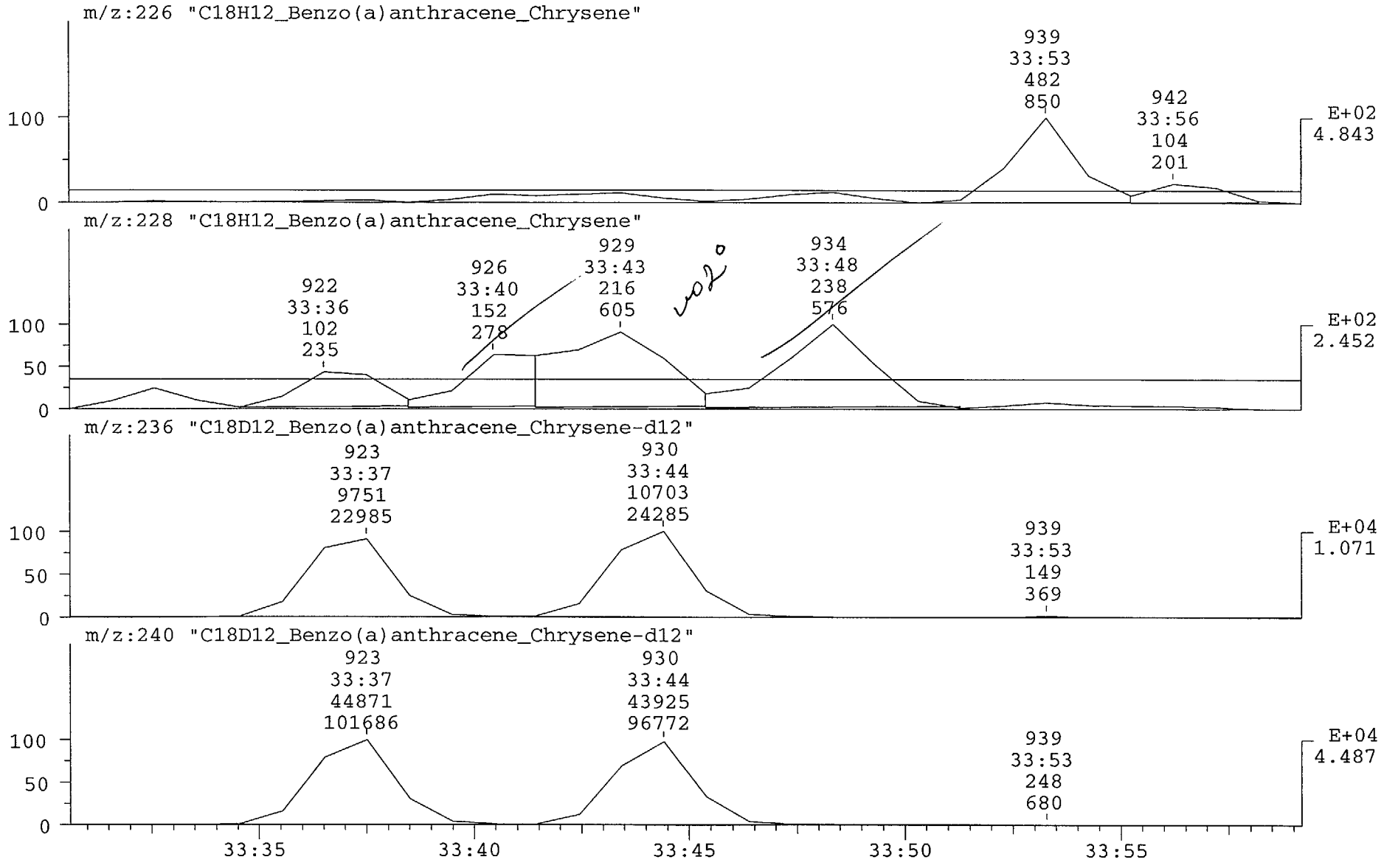
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



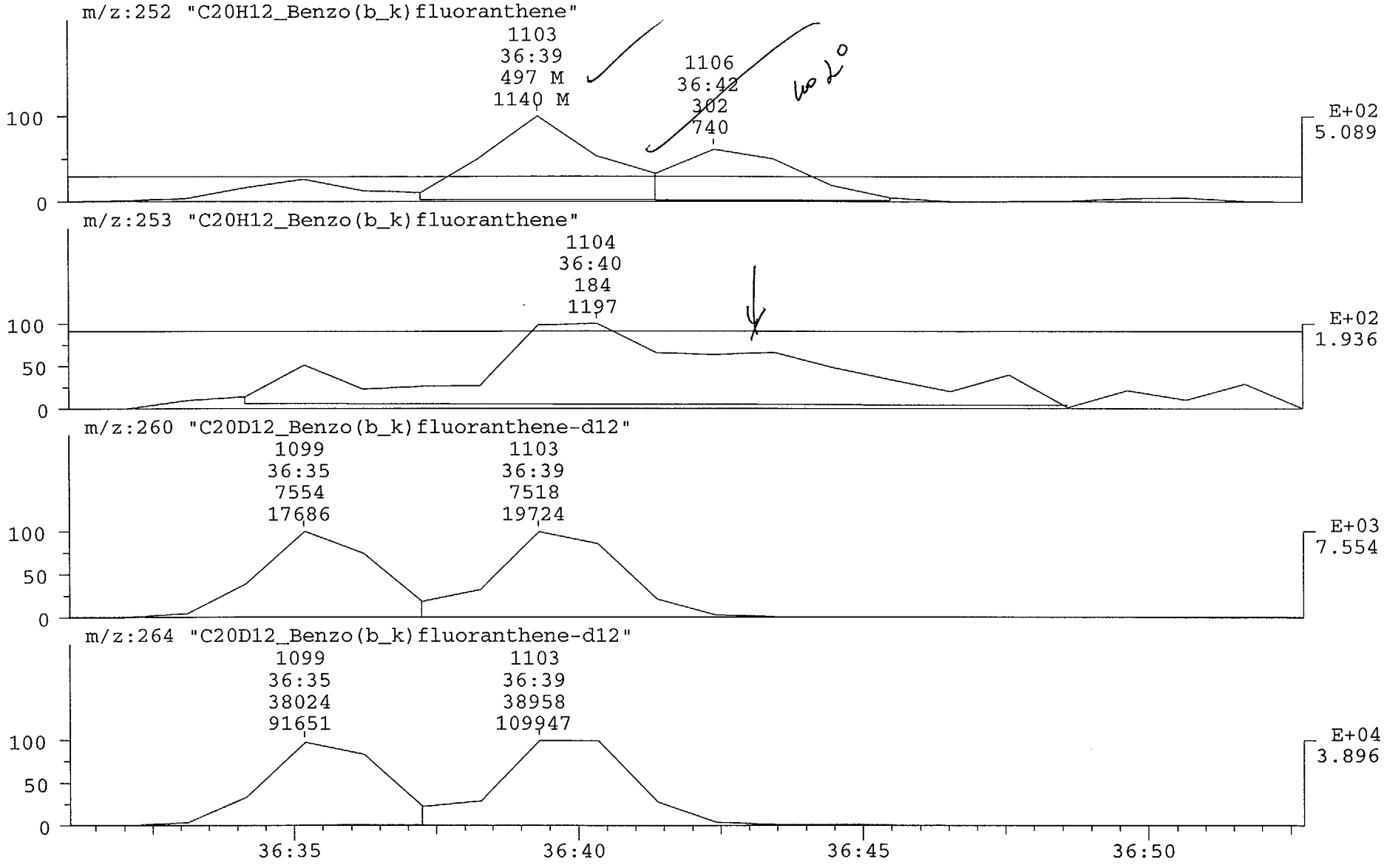
CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2h24 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2h241aa Meth=YA1 Dil=1 Start : 24:17:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D030241-011 Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area