AR TARGET SHEET

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

EDMC#: 0074263
SECTION: 5 OF 6

DOCUMENT #: J00140

TITLE: Administrative Record Index

```
CHRO:  a07030713                                08-Mar-07   Elapse:  20:28.4      538
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29    2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   458 > 618             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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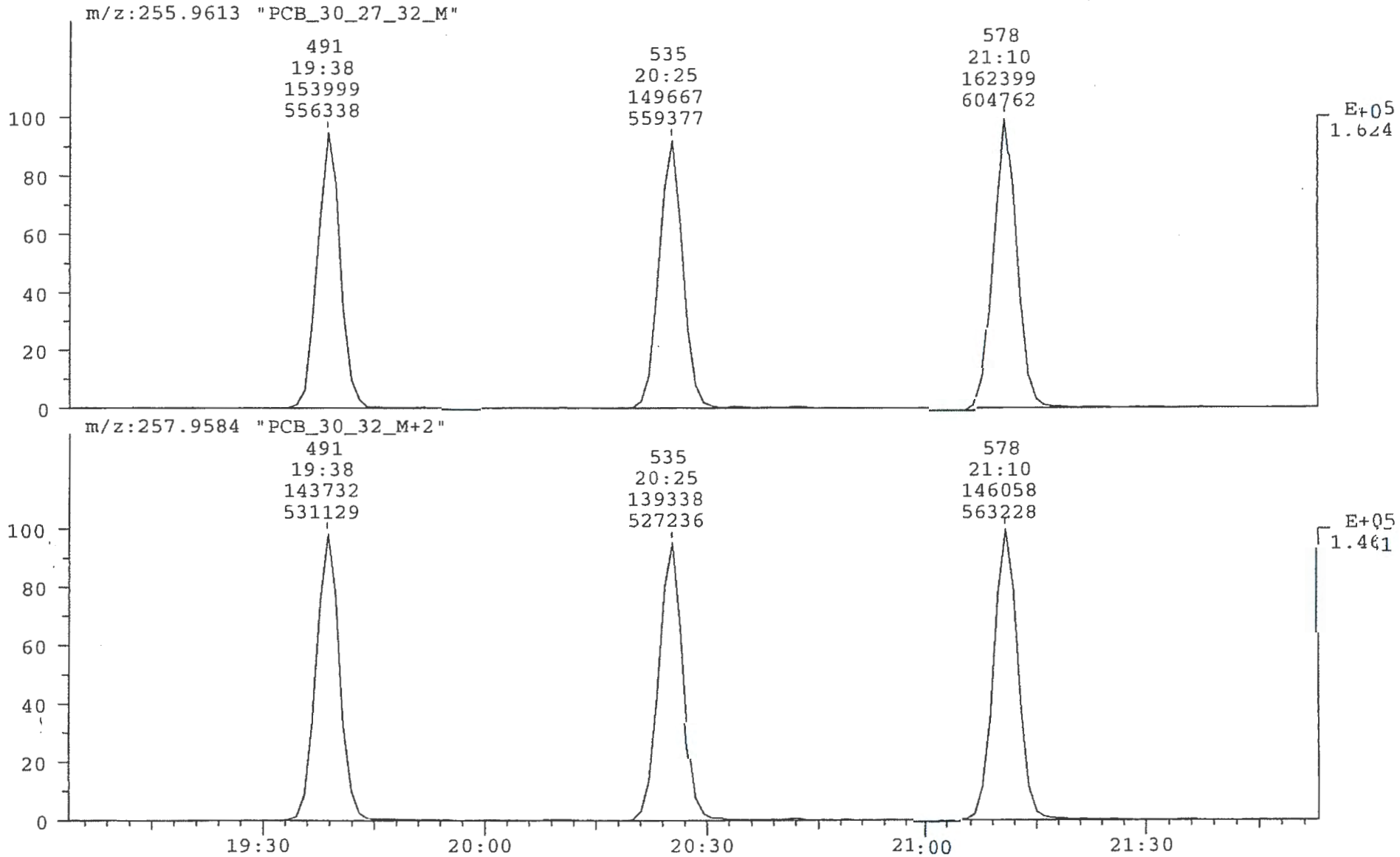
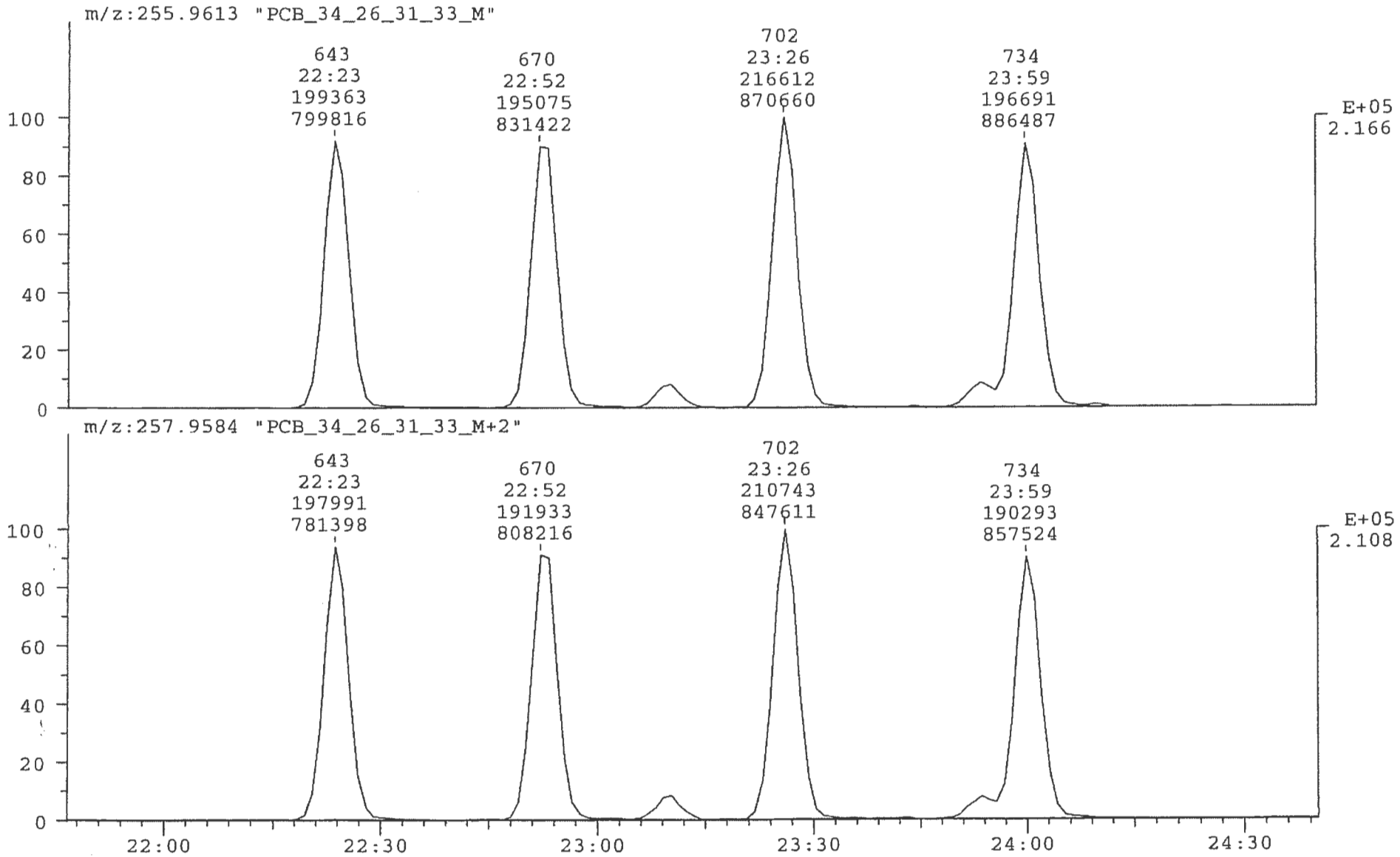


2001

CHRO: a07030713 08-Mar-07 Elapse: 23:15.4 692
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 612 > 772 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2002

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CHRO:  a07030713                                08-Mar-07   Elapse:  26:41.8      887
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Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   807 > 967             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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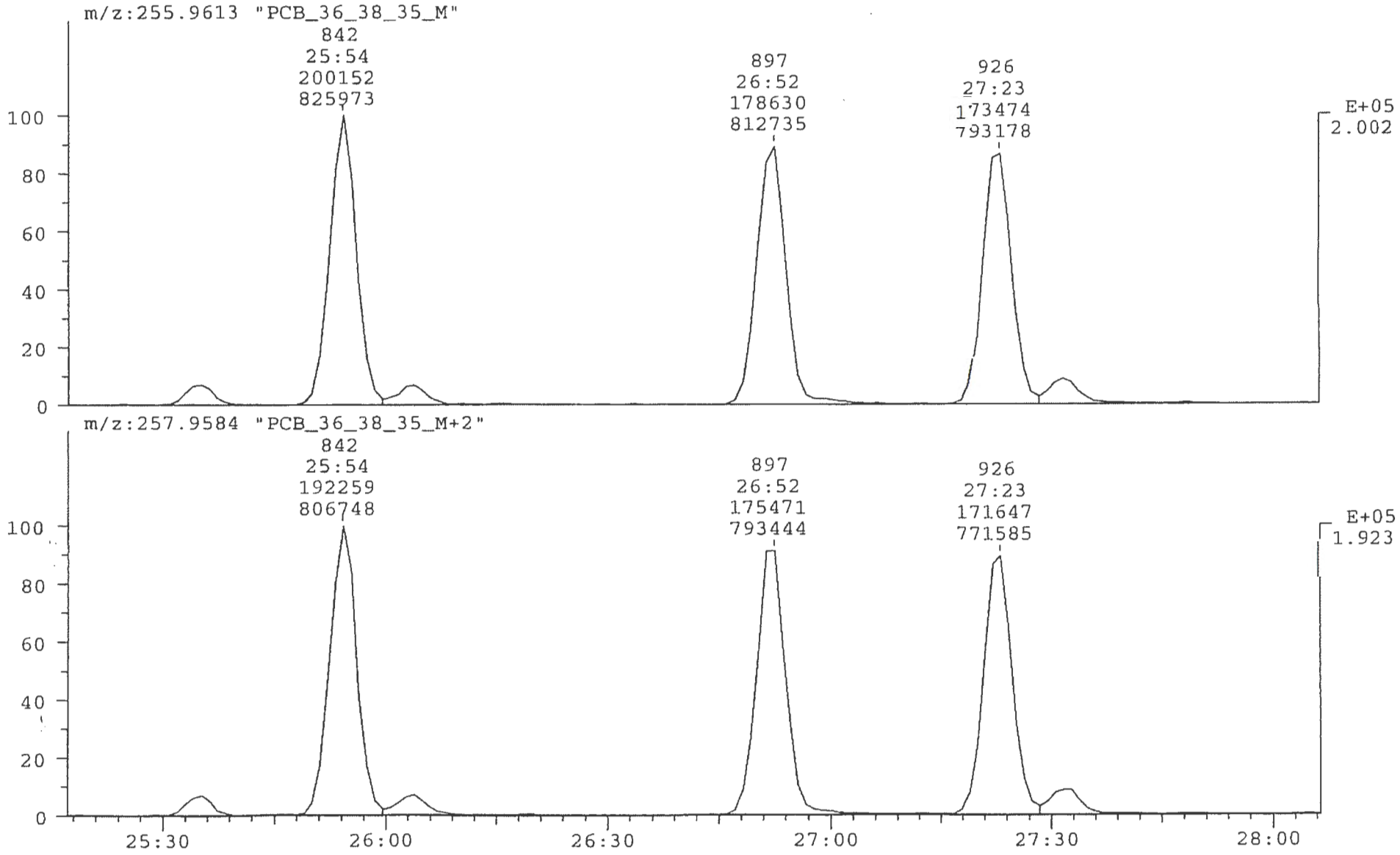
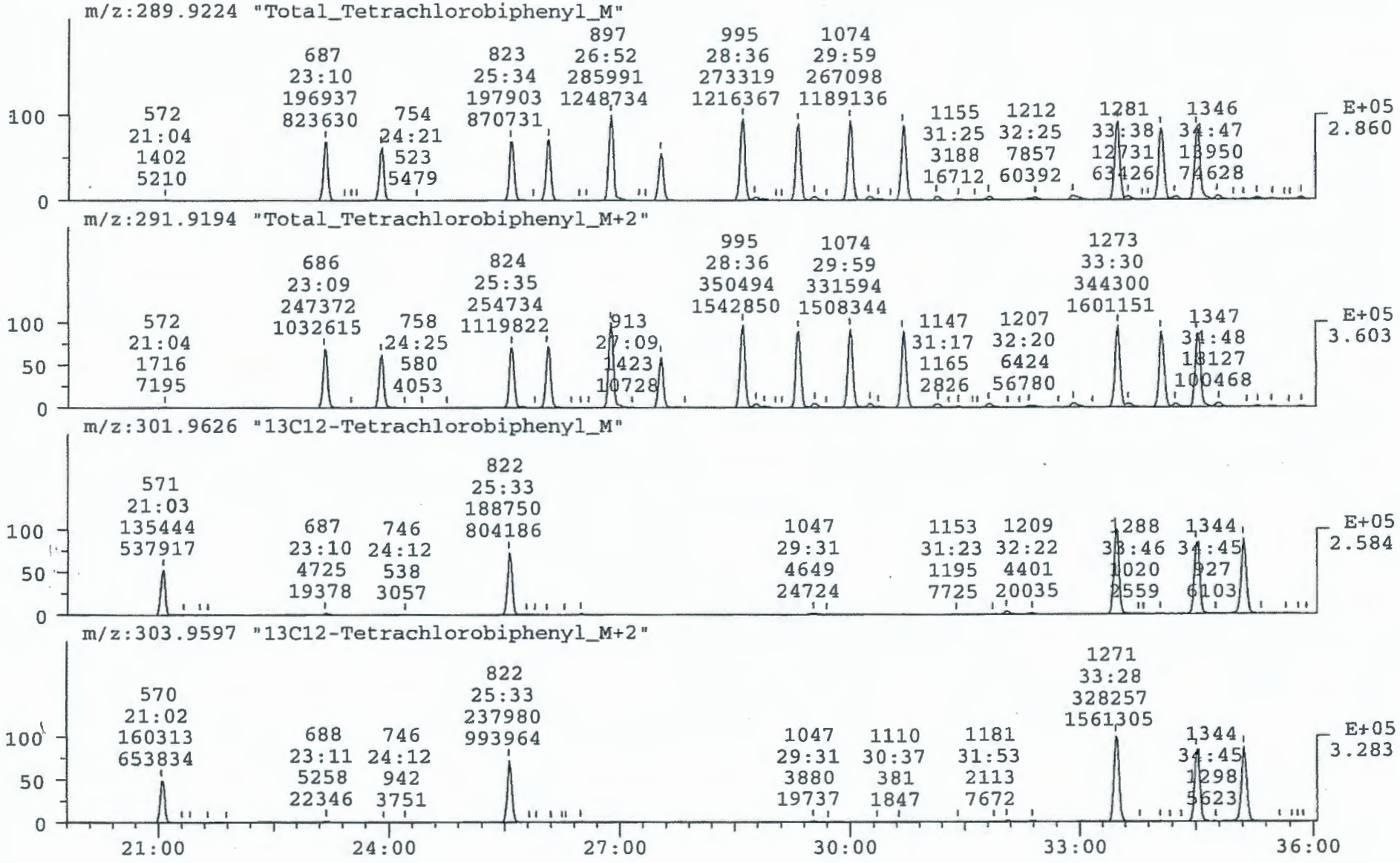


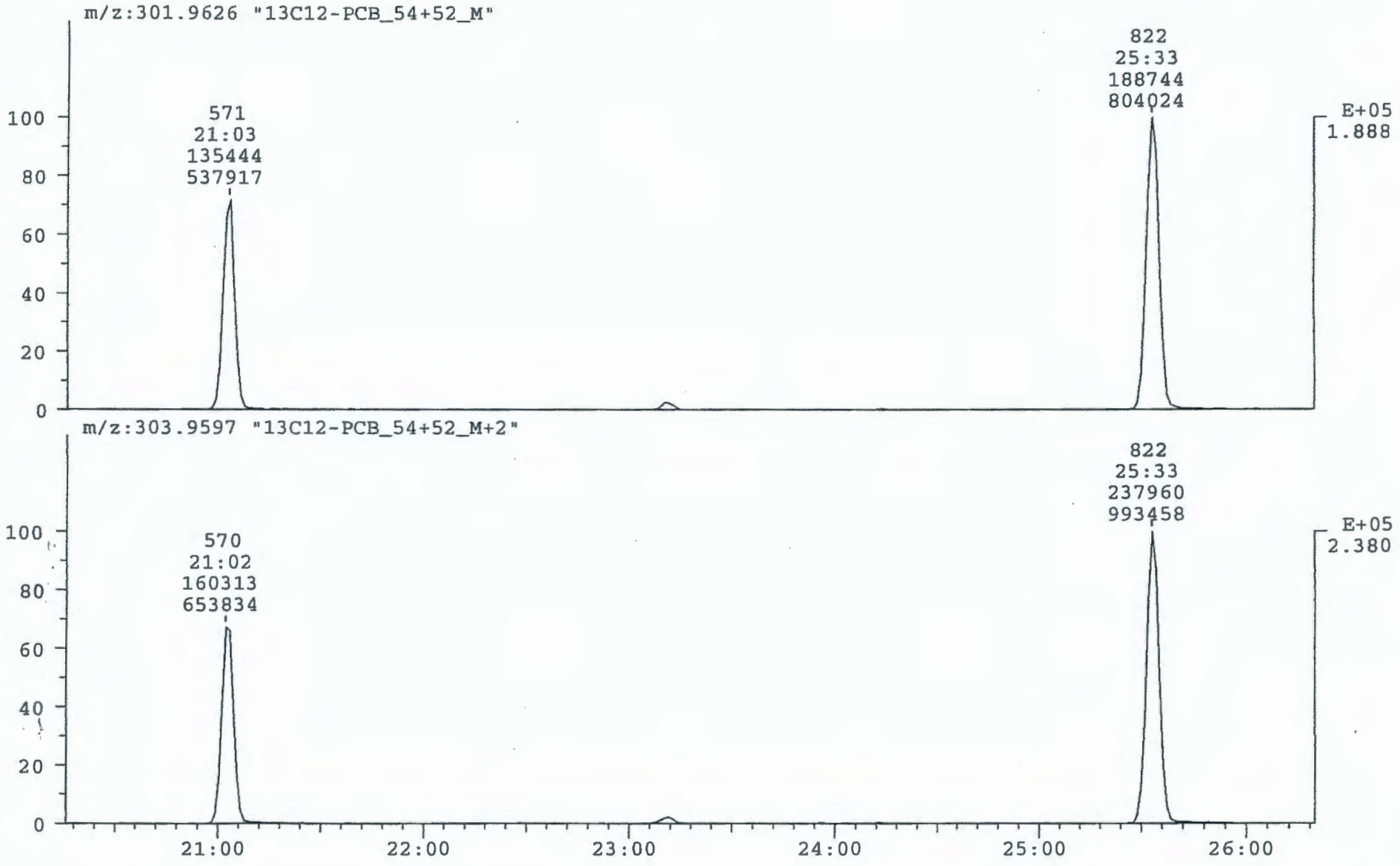
2003

CHRO: a07030713 08-Mar-07 Elapse: 27:54.8 956
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 500 > 1418 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2004

CHRO: a07030713 08-Mar-07 Elapse: 23:19.6 696
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 526 > 866 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2005

```
CHRO:  a07030713                                08-Mar-07   Elapse:  34:14      1315
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   3
Peak:  100.00  ppm     Label wndw:   1245 > 1380            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
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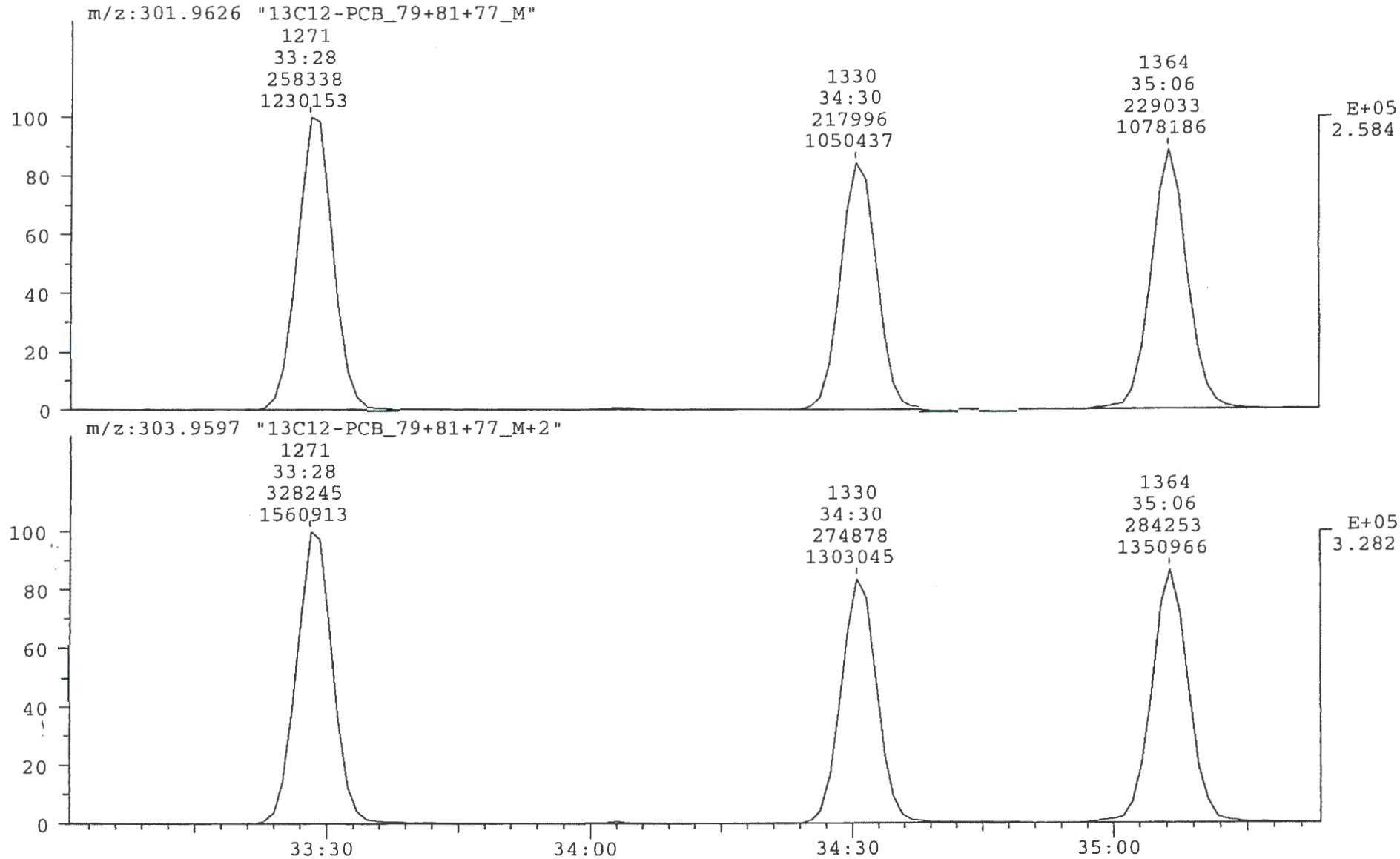

2006

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CHRO:  a07030713                                08-Mar-07   Elapse:  23:40.8      716
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29    2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   676 > 746             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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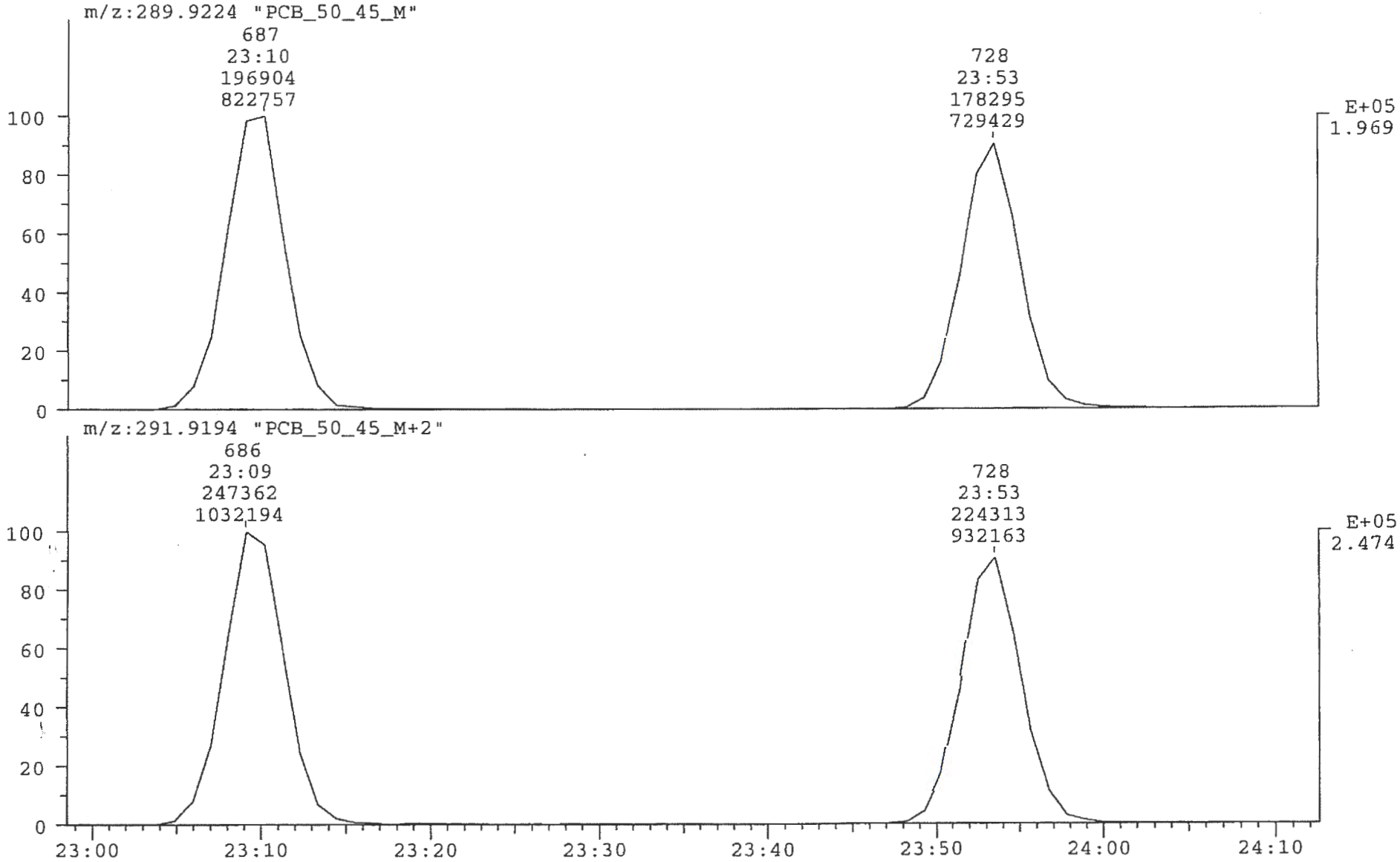

2007

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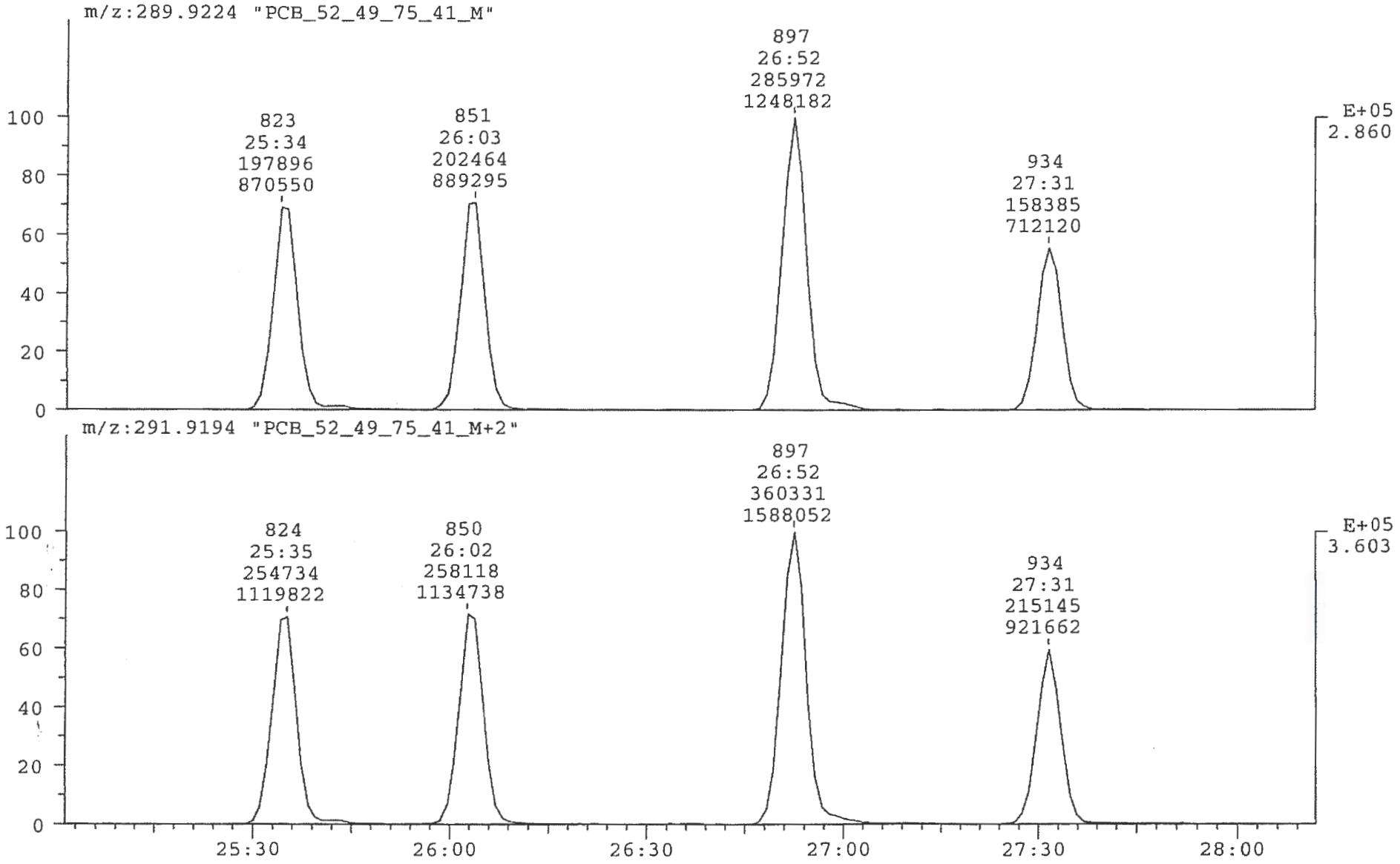
CHRO:  a07030713                                08-Mar-07   Elapse:  26:36.5      882
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29    2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   792 > 972             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



2008

```
CHRO:  a07030713                                08-Mar-07   Elapse:  29:41      1057
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  3
Peak:  100.00  ppm      Label wndw:   977 > 1137            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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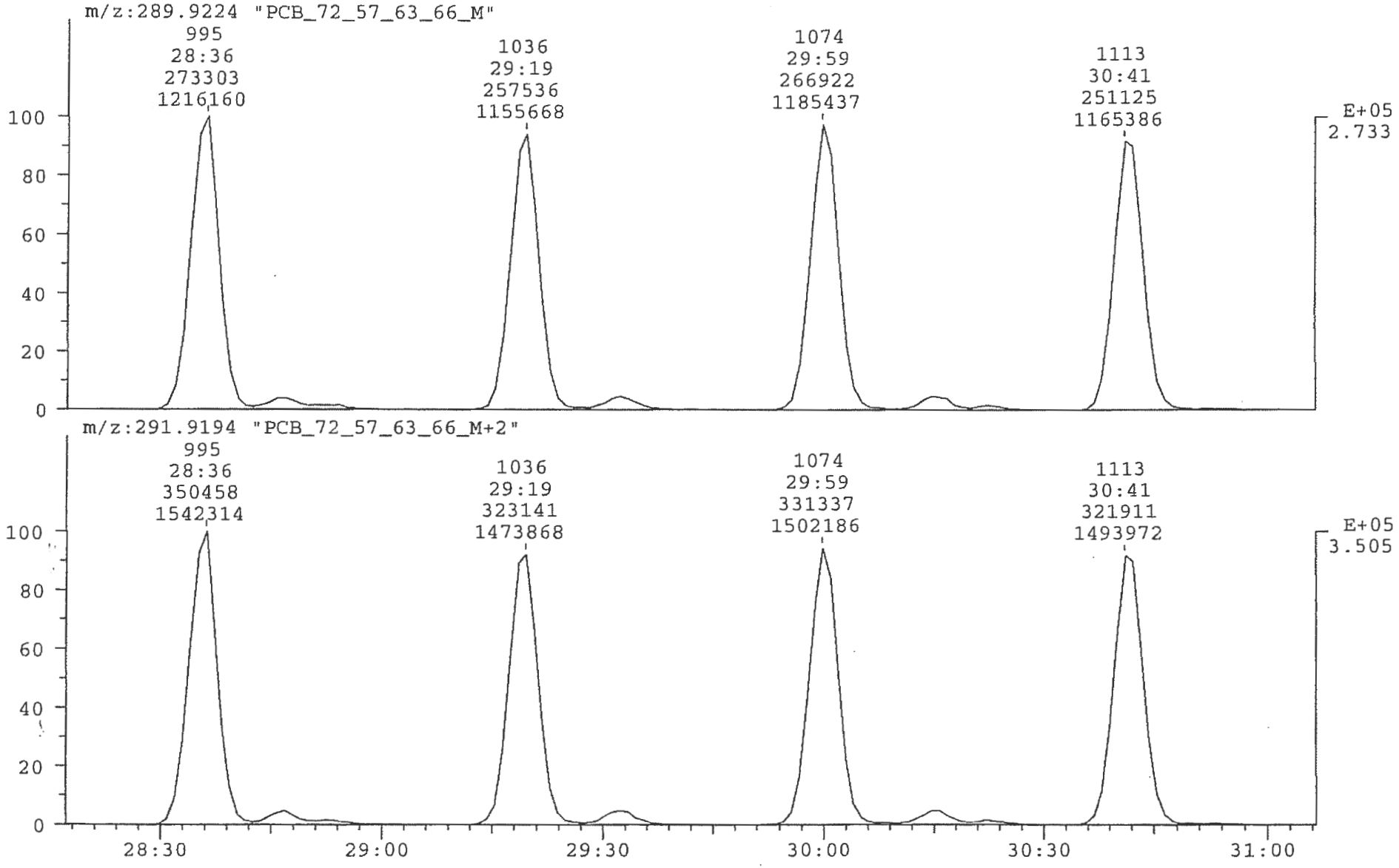
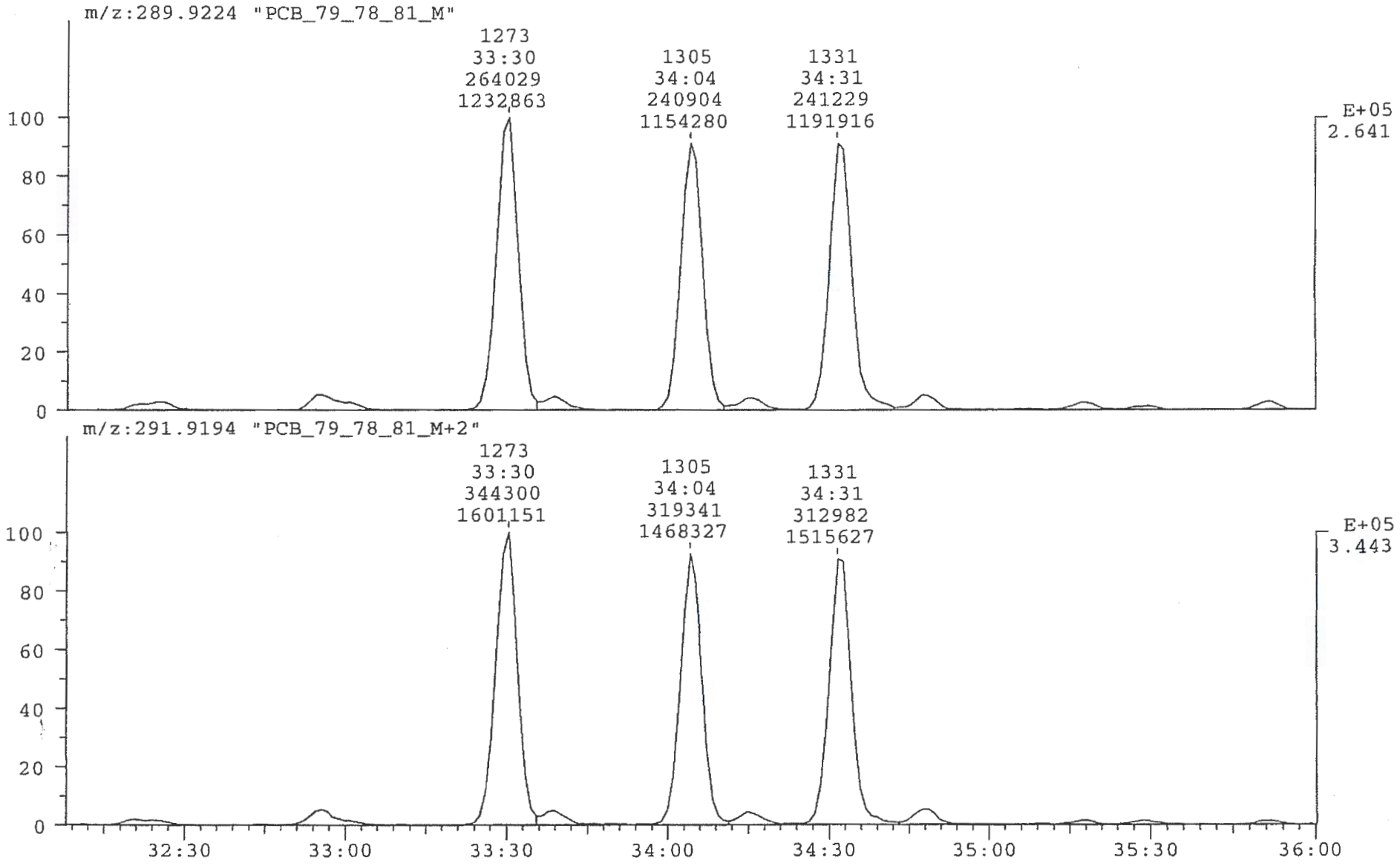


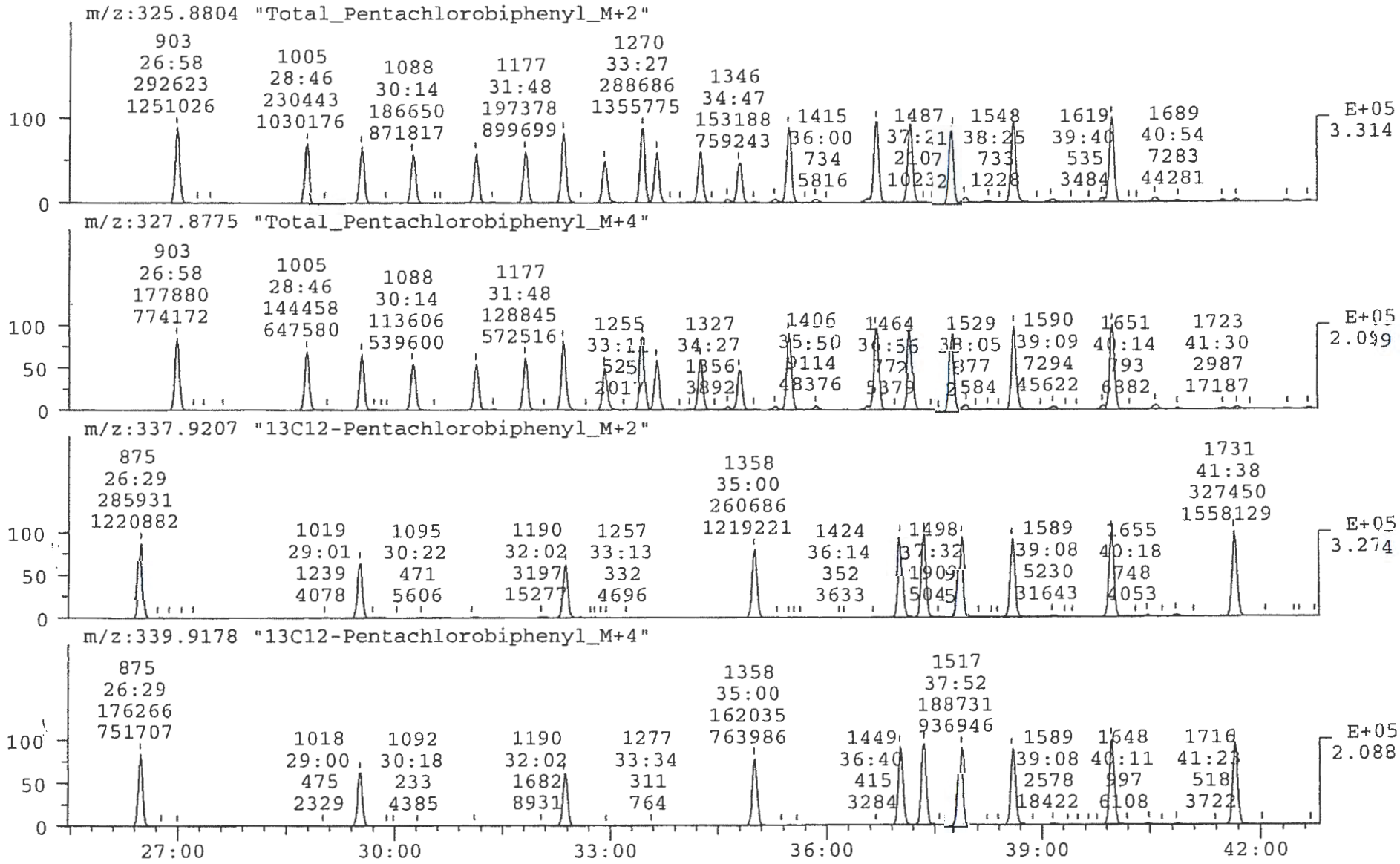
2009

CHRO: a07030713 08-Mar-07 Elapse: 34:04 1305
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1195 > 1415 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2010

CHRO: a07030713 08-Mar-07 Elapse: 34:08 1309
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 817 > 1797 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2011

CHRO: a07030713 08-Mar-07 Elapse: 30:36 1109
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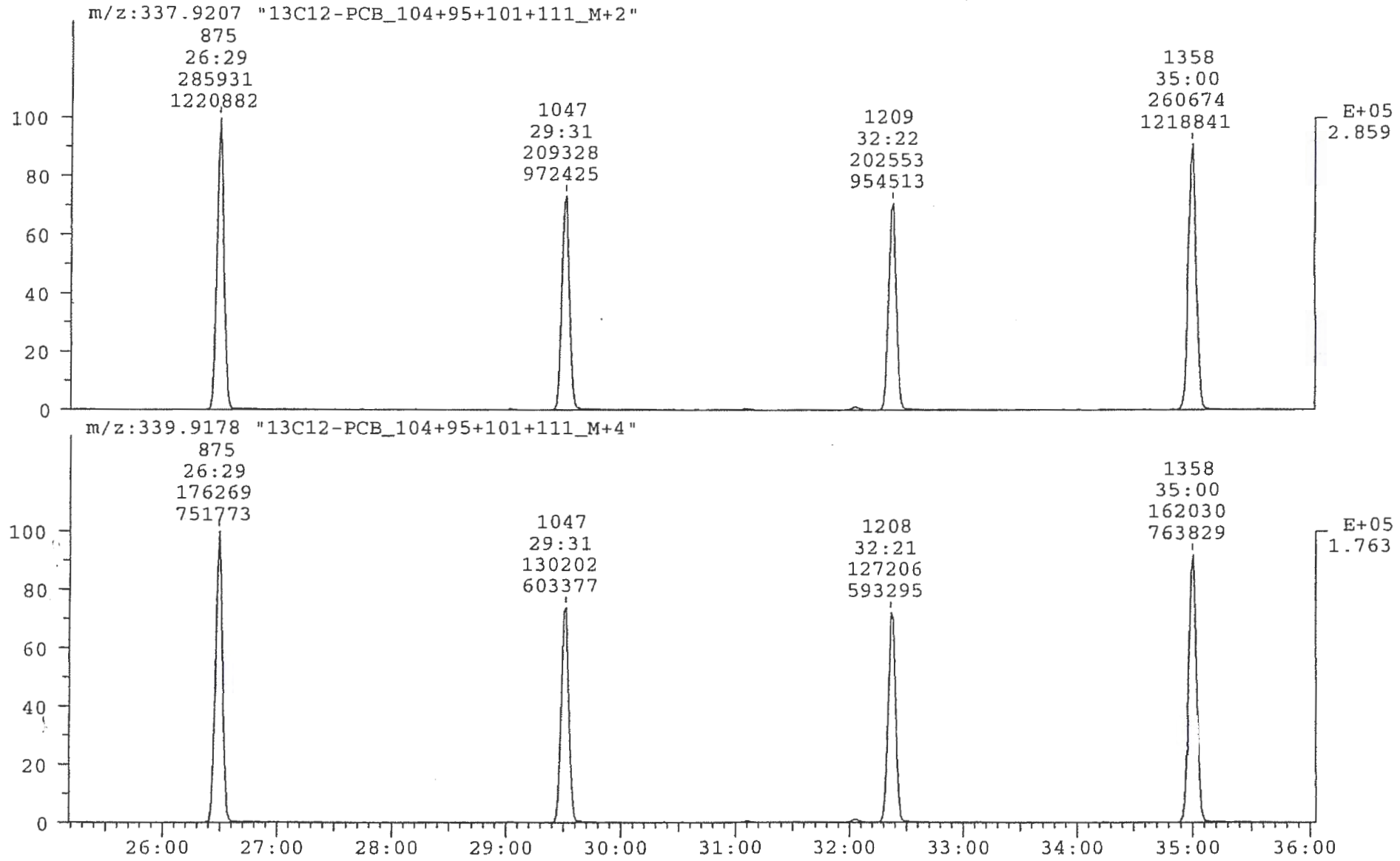
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 801 > 1418 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2012

```
CHRO:  a07030713                                08-Mar-07  Elapse:  37:49      1514
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1449 > 1579         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
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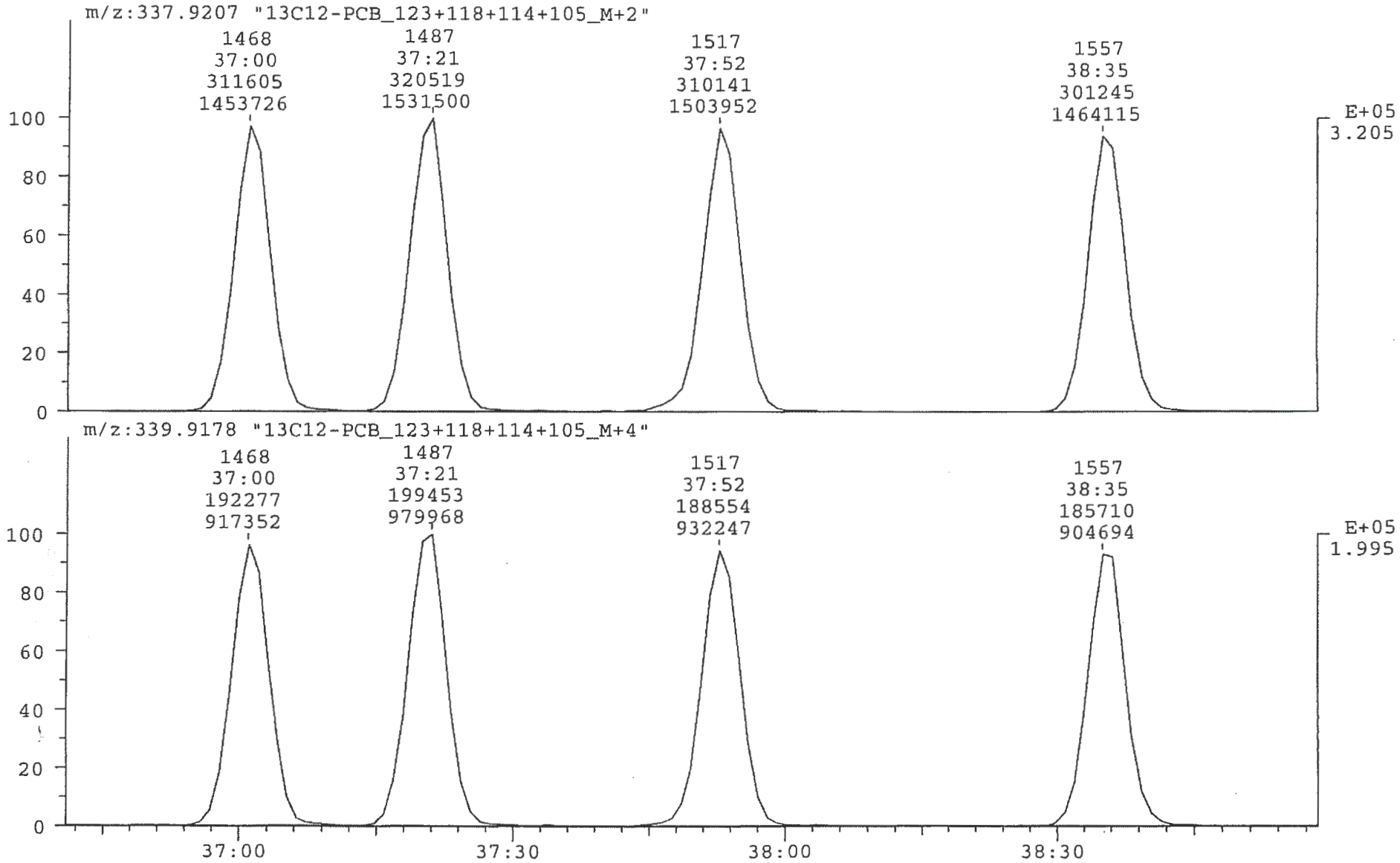
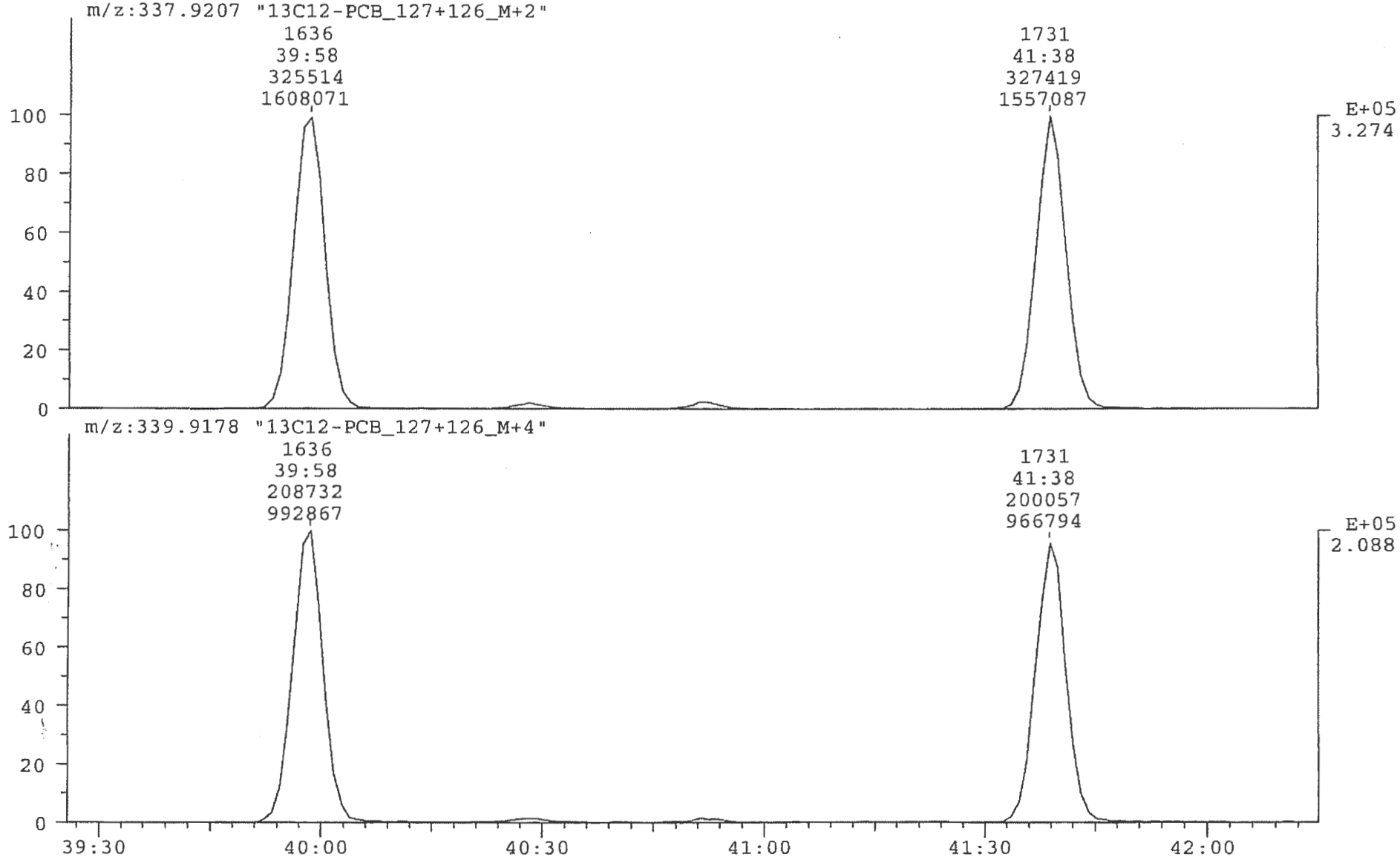


2013

CHRO: a07030713 08-Mar-07 Elapse: 40:50 1685
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1605 > 1765 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2014

```
CHRO:  a07030713                                08-Mar-07  Elapse:  28:40.3      999
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Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   859 > 1139          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
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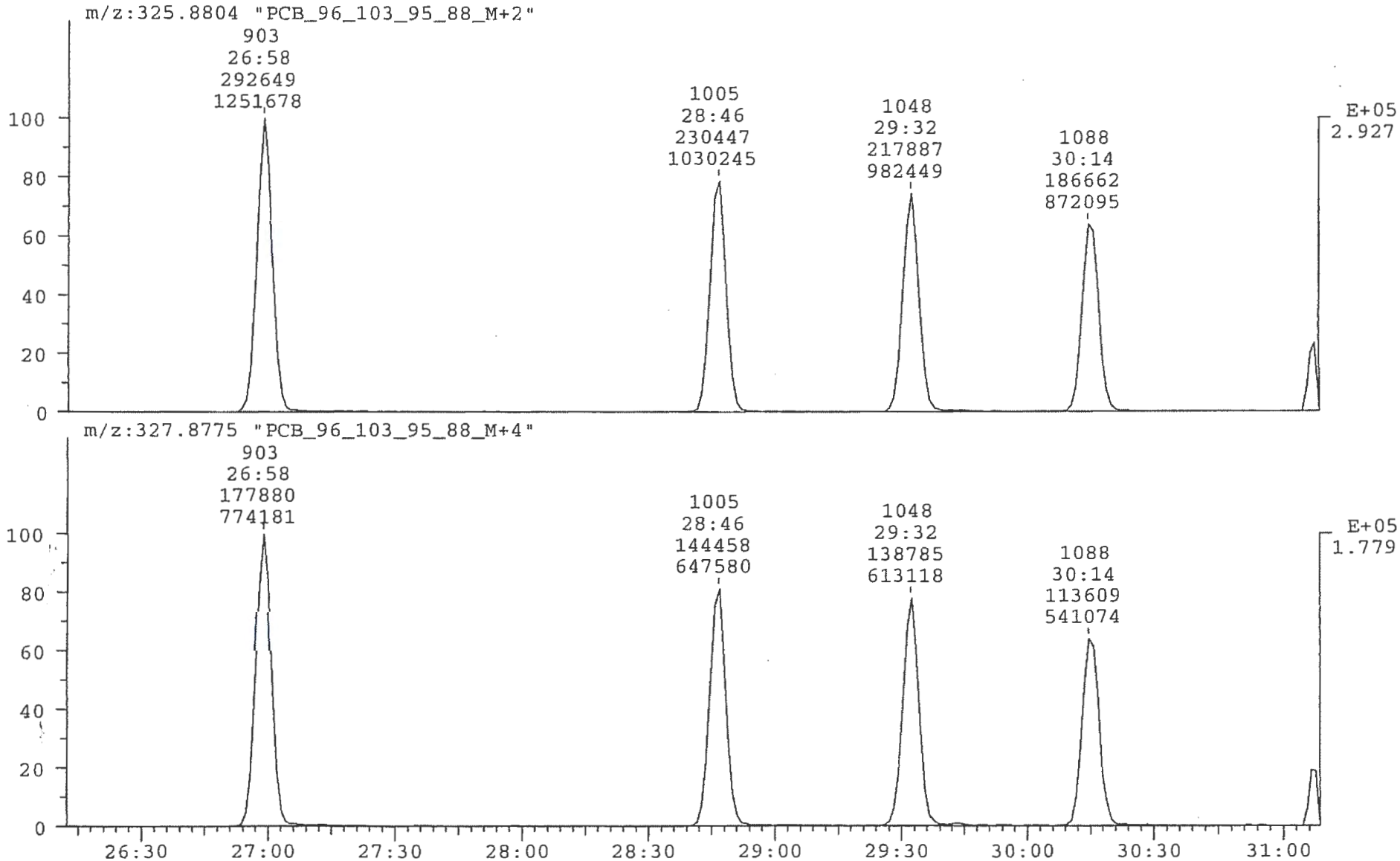

2015

```
CHRO:  a07030713                              08-Mar-07   Elapse:  32:03      1191
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  3
Peak:  100.00  ppm      Label wndw:   1121 > 1266         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
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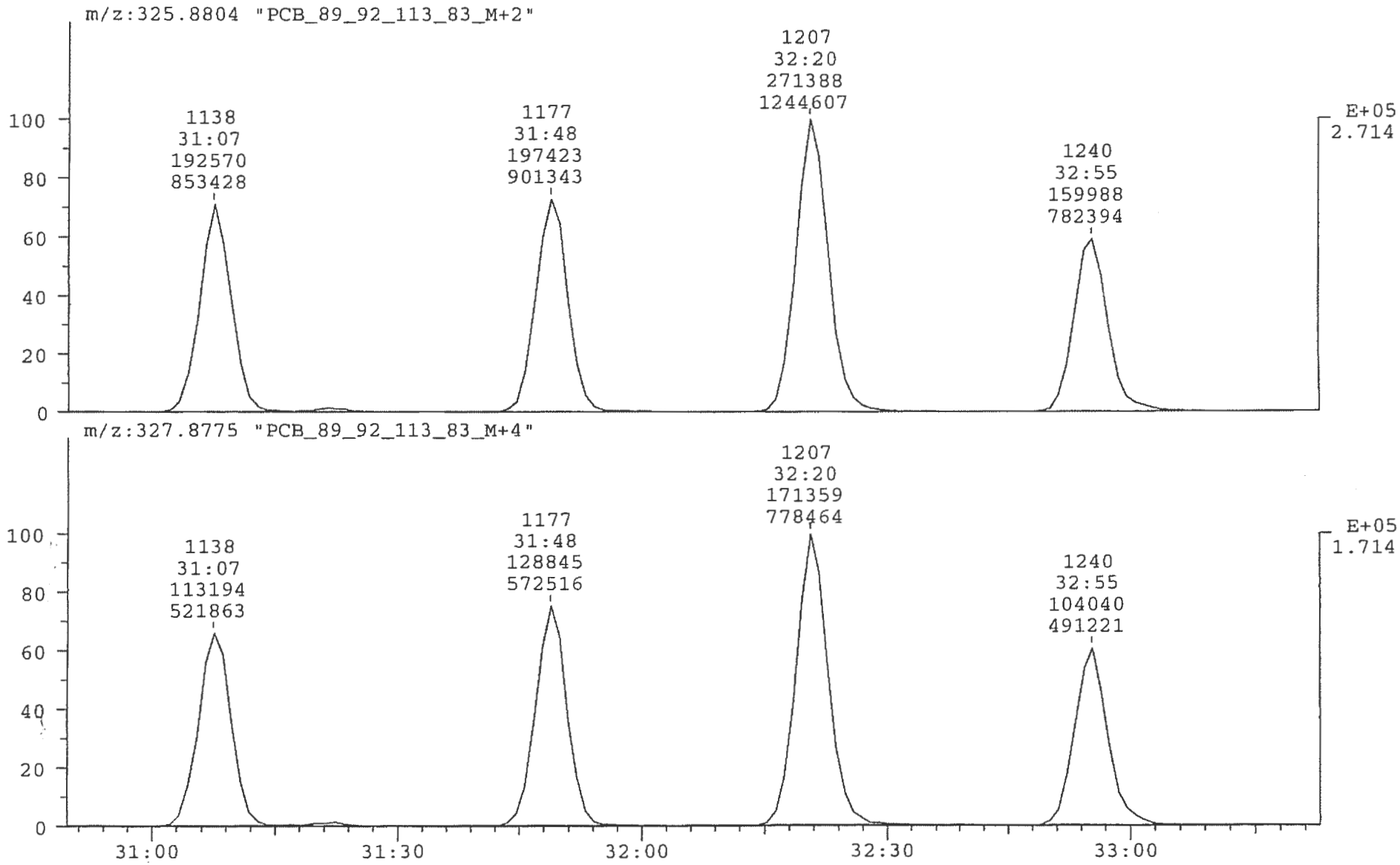

2016

```
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Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1258 > 1298           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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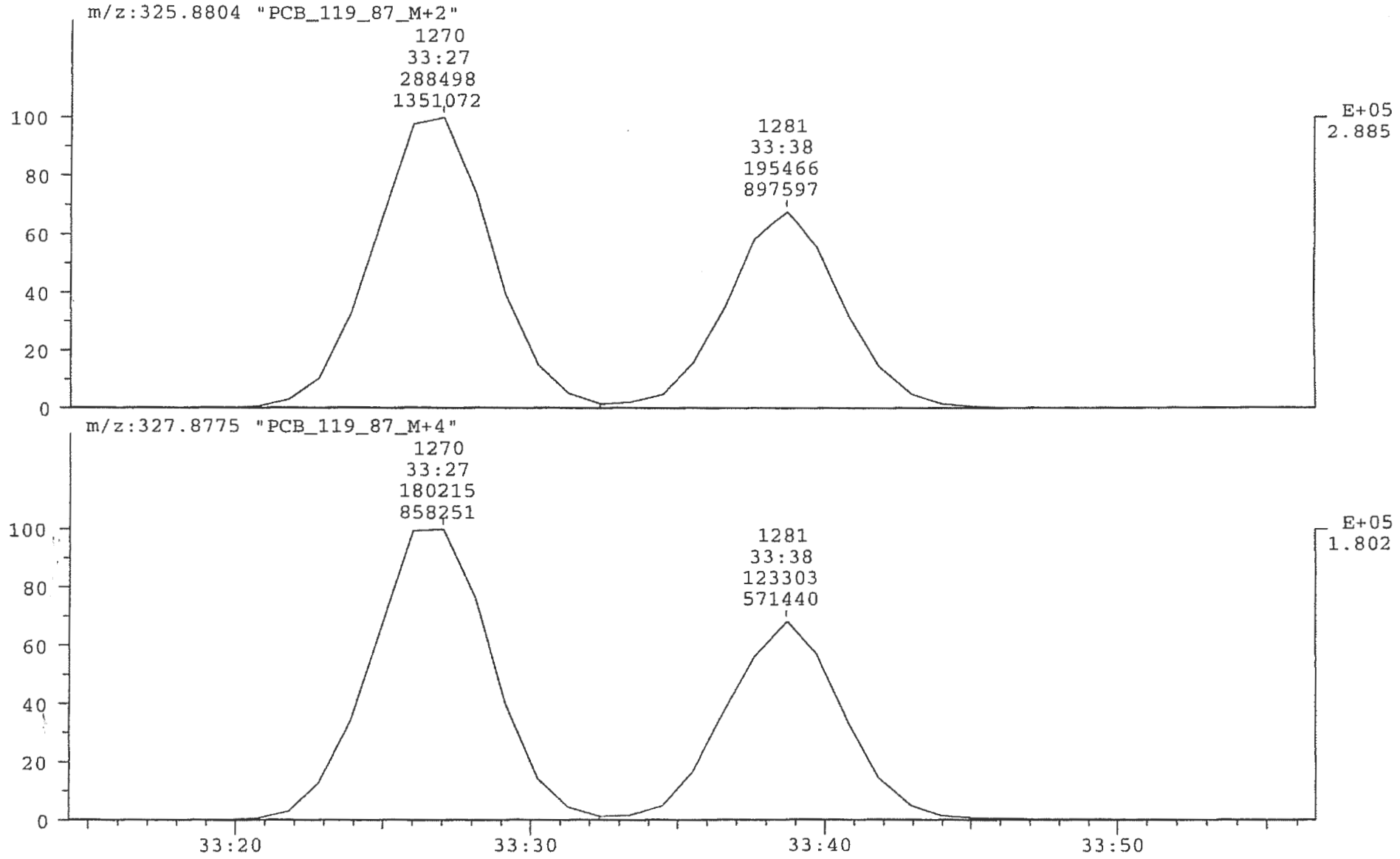

2017

```
CHRO:  a07030713                                08-Mar-07   Elapse:  34:40      1339
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1294 > 1404           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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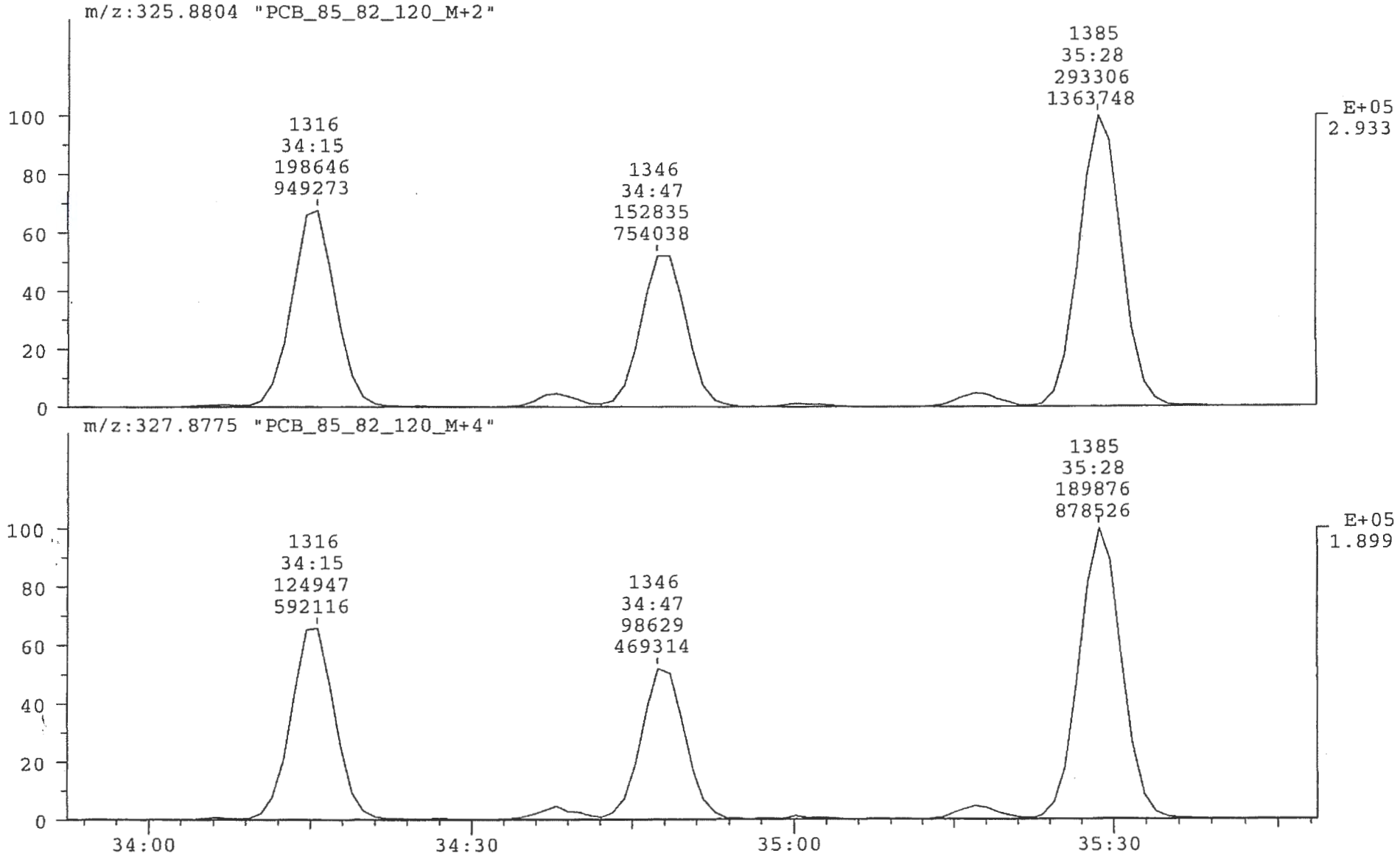

2018

```
CHRO:  a07030713                                08-Mar-07   Elapse:  38:28      1551
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Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1426 > 1666           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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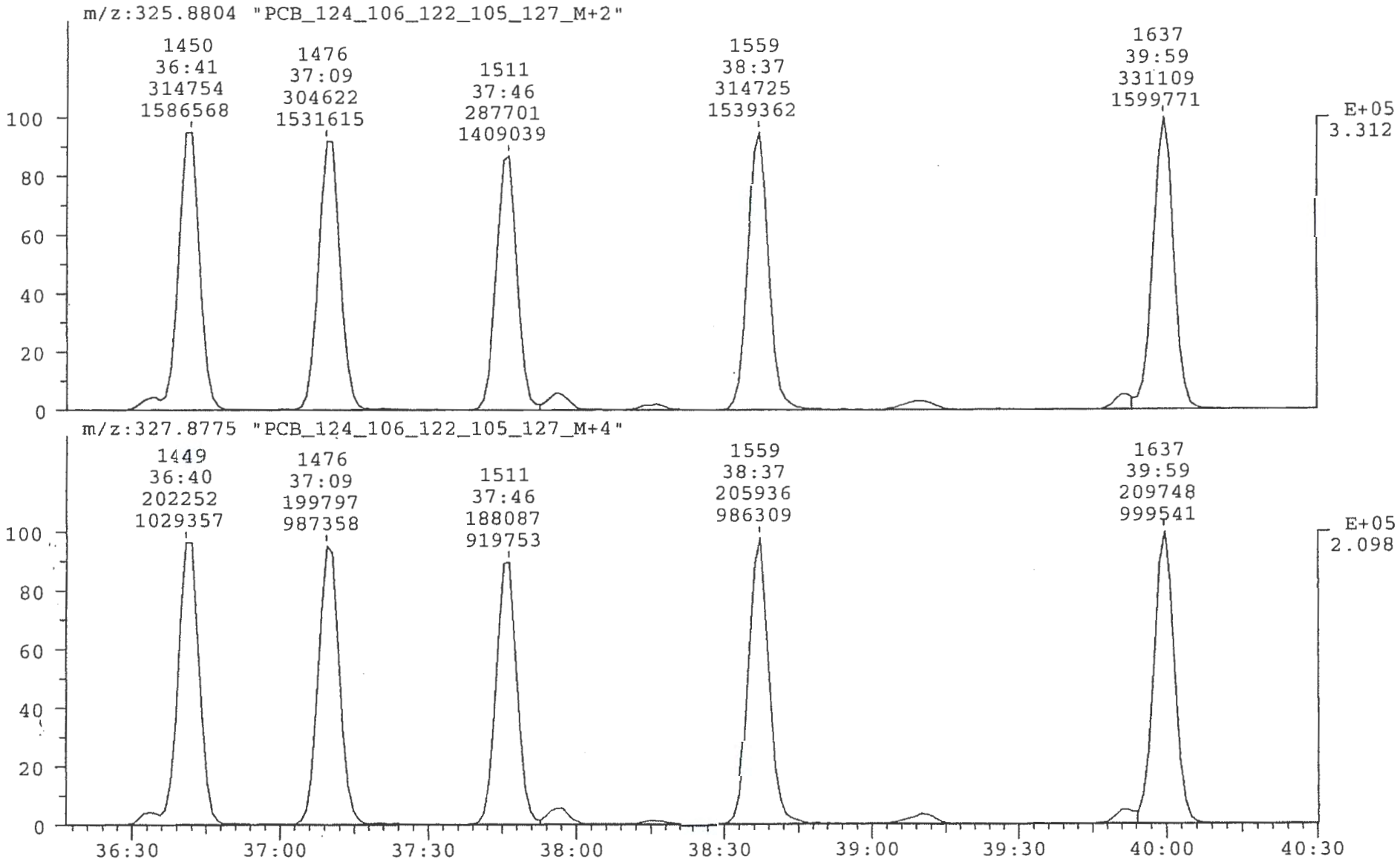
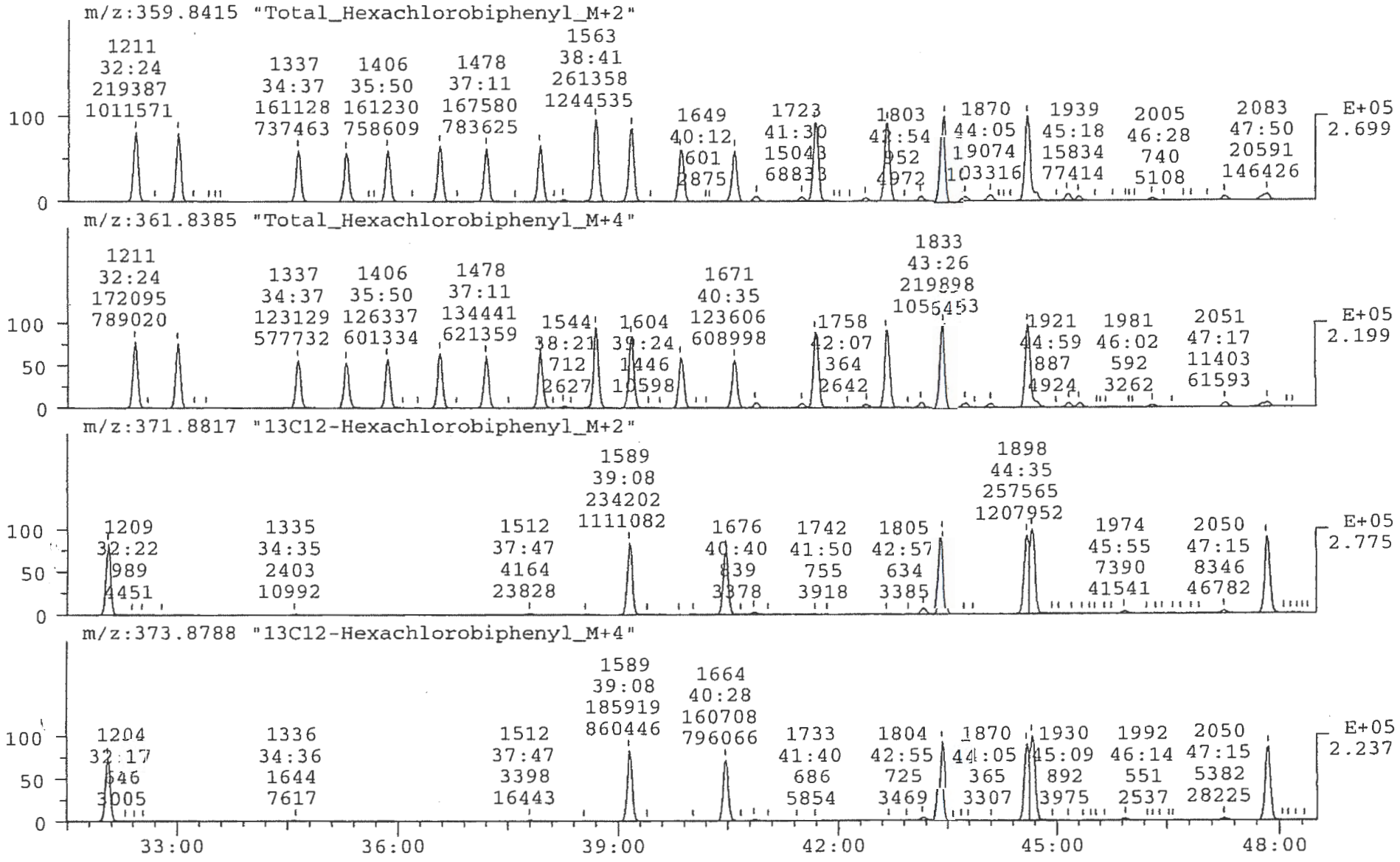


2019

CHRO: a07030713 08-Mar-07 Elapse: 39:59 1637
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1158 > 2120 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2020

```
CHRO:  a07030713                              08-Mar-07   Elapse:  32:02       1190
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  03:20:29    2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1165 > 1215         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
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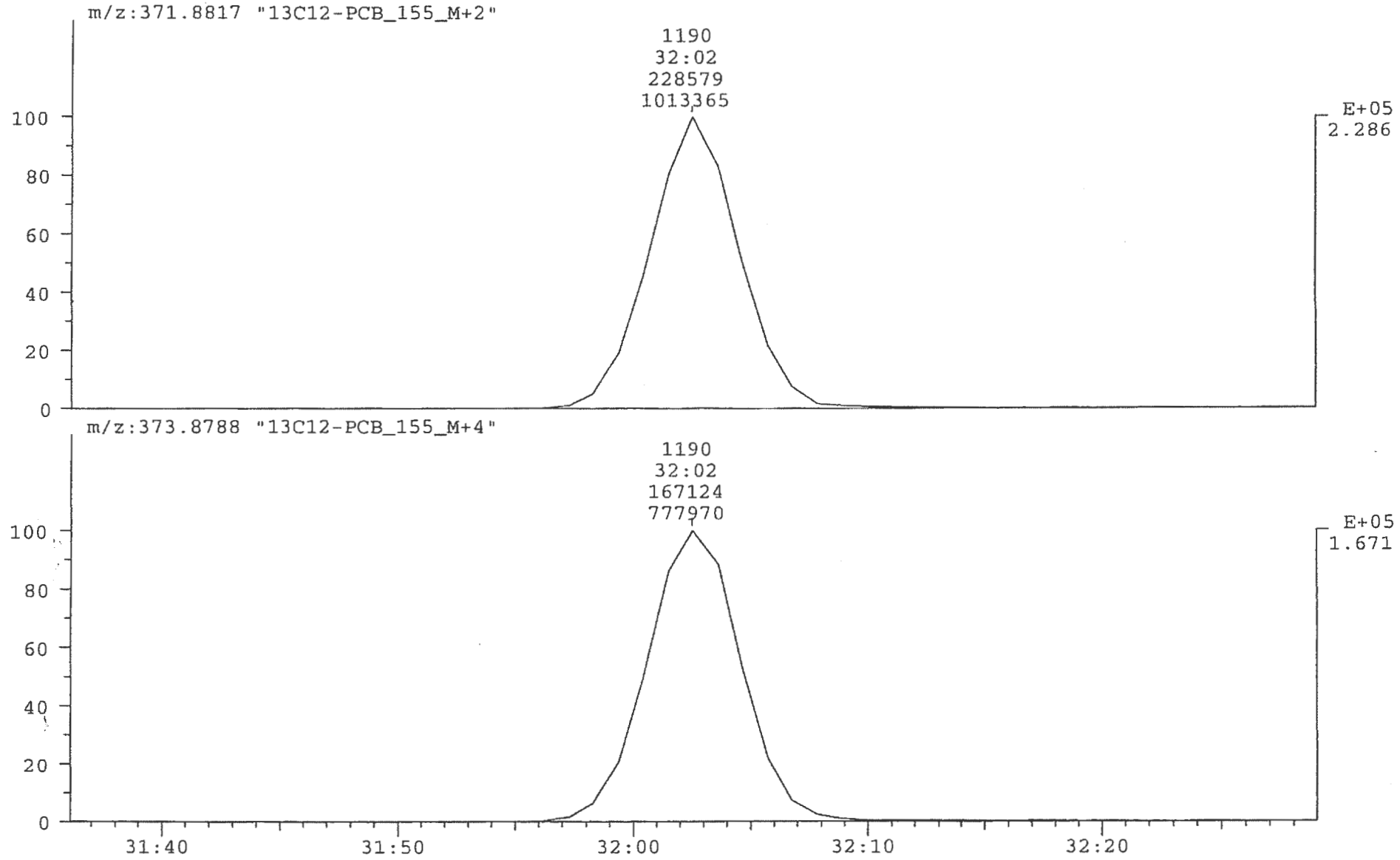

2021

```
CHRO:  a07030713                              08-Mar-07   Elapse:  39:50      1628
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  3
Peak:  100.00  ppm      Label wndw:   1555 > 1702         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
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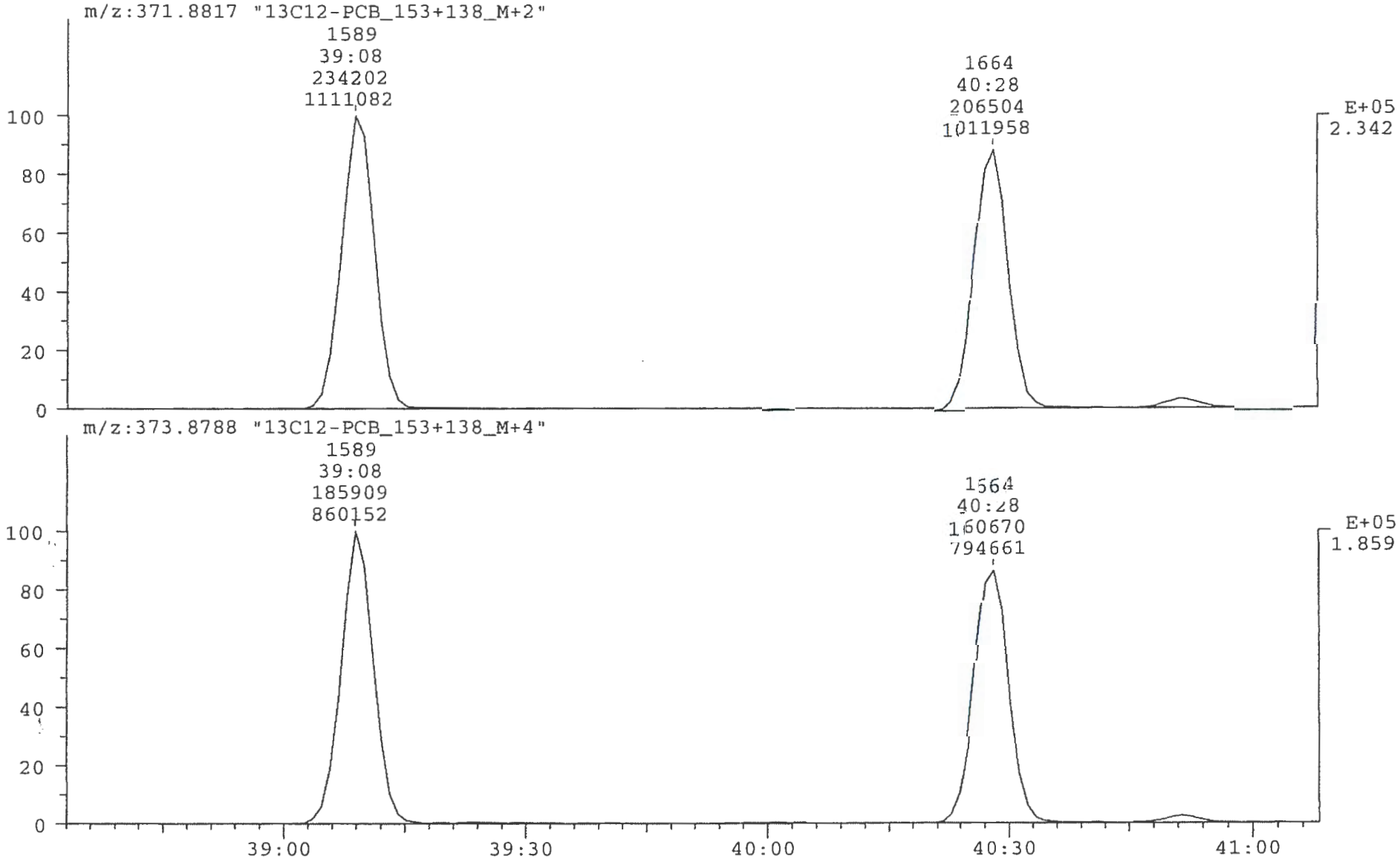
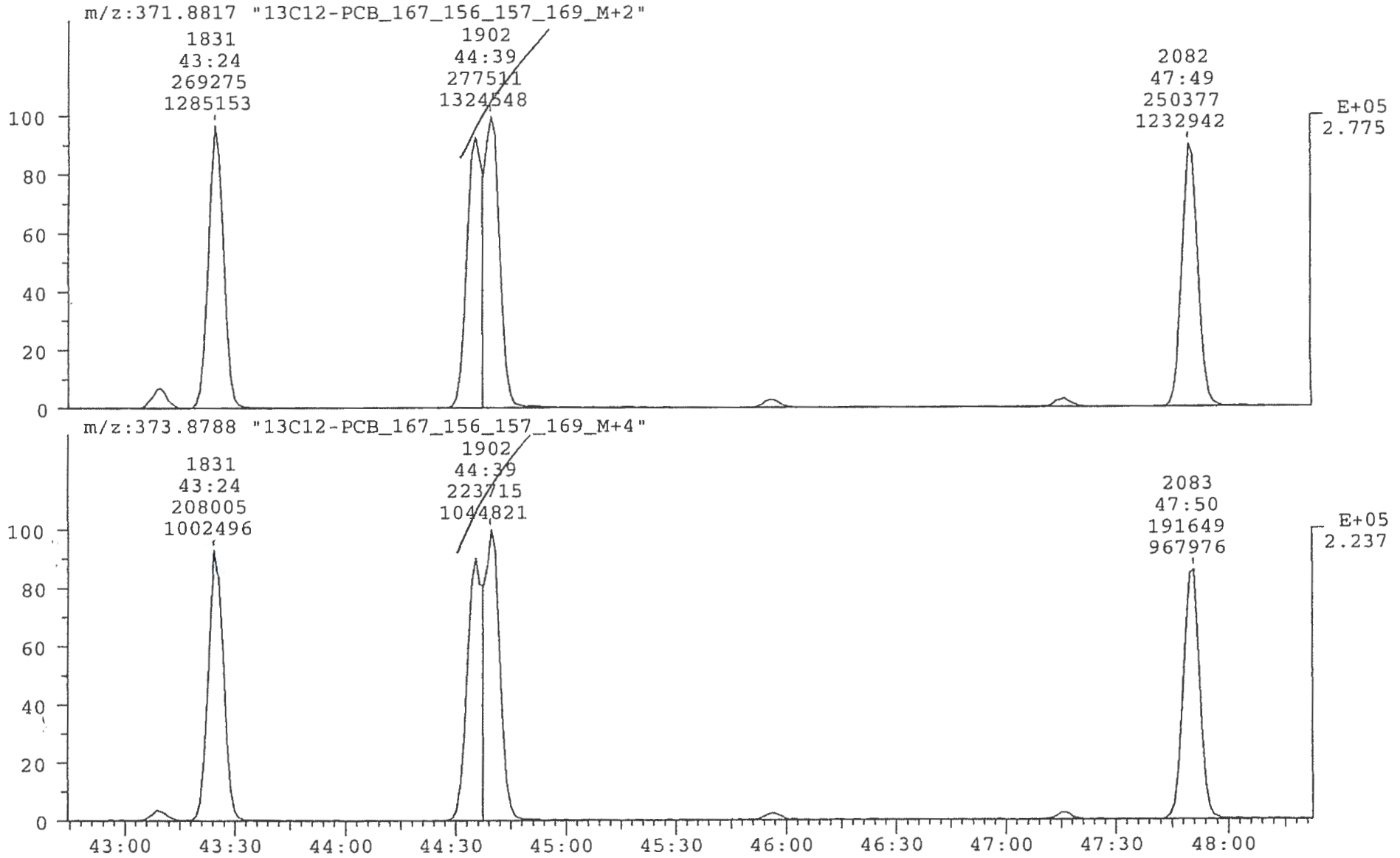


2022

CHRO: a07030713 08-Mar-07 Elapse: 45:38 1958
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1793 > 2113 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2023

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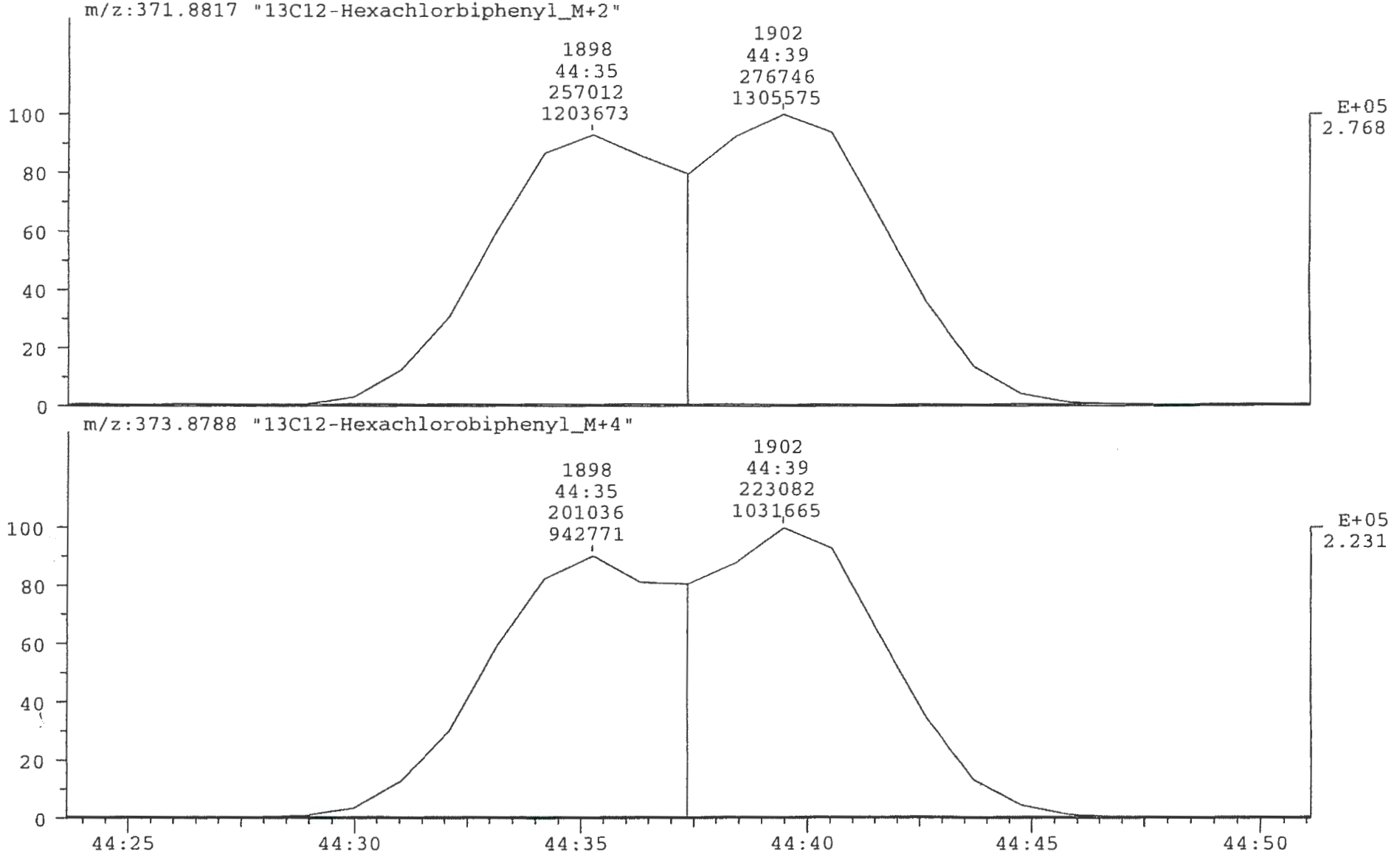
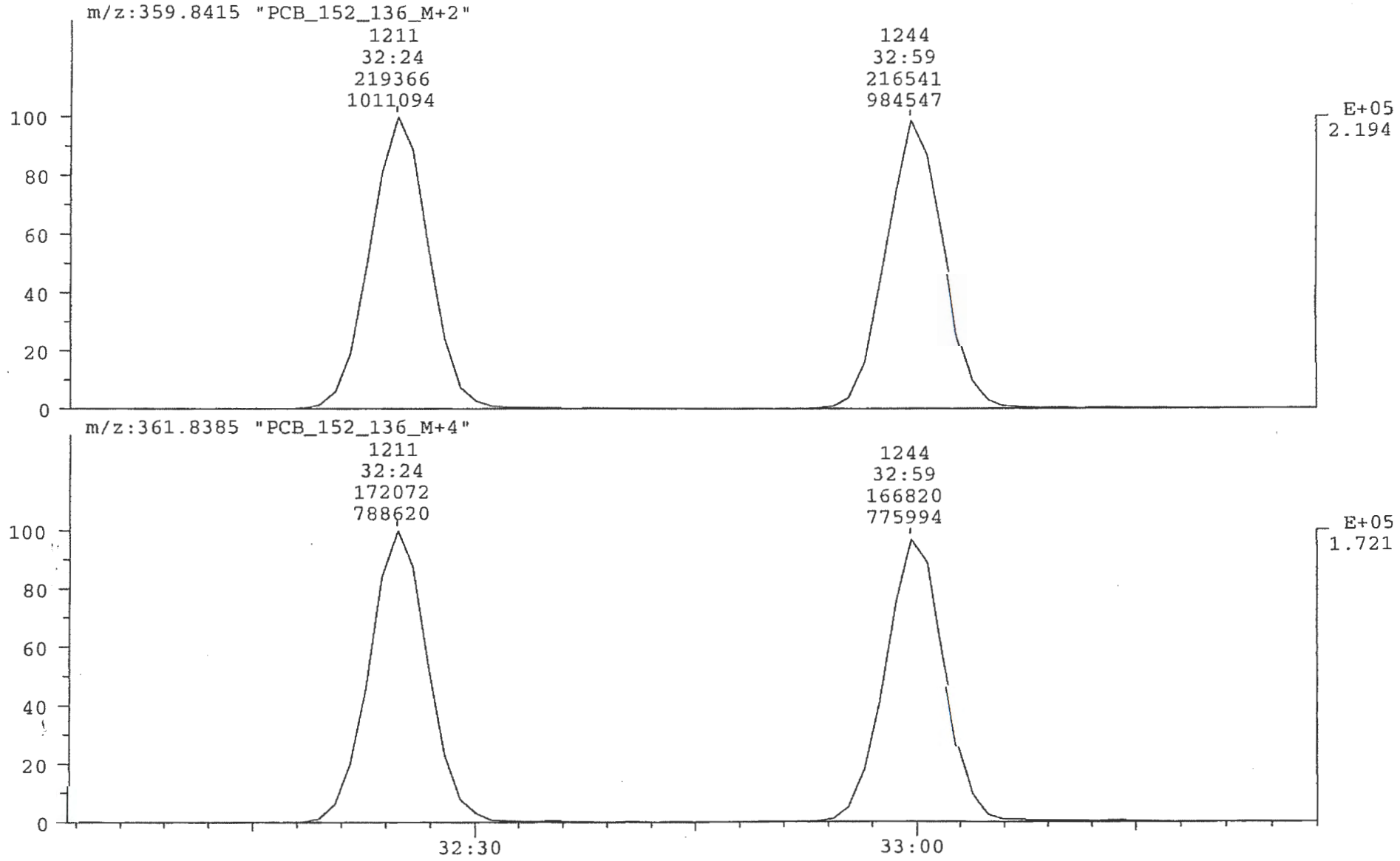
CHRO:  a07030713                              08-Mar-07   Elapse:  56:14      2555
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  3
Peak:  100.00  ppm      Label wndw:   1887 > 1913         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



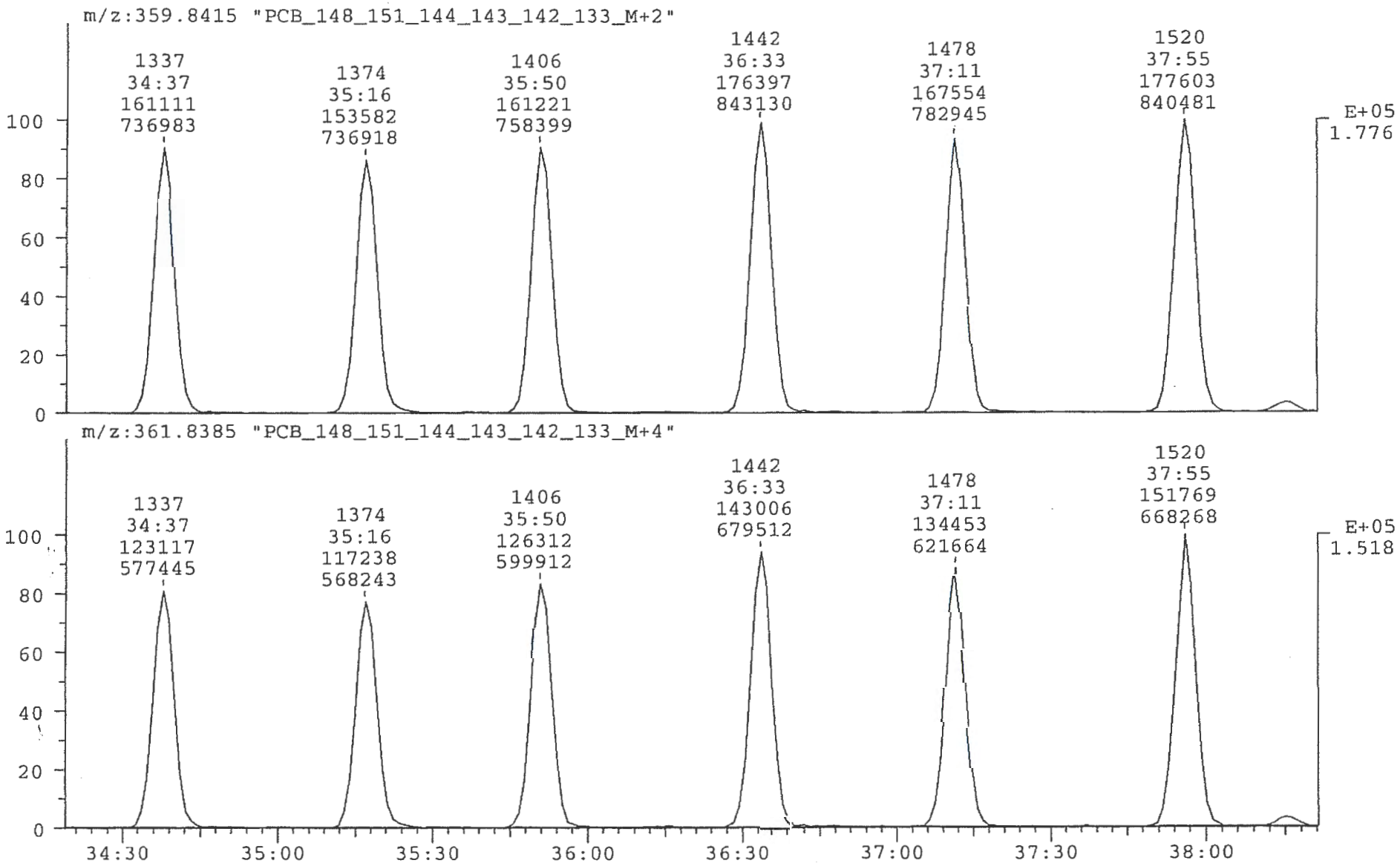
2024

```
CHRO:  a07030713                                08-Mar-07   Elapse:  32:44      1230
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1190 > 1270           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

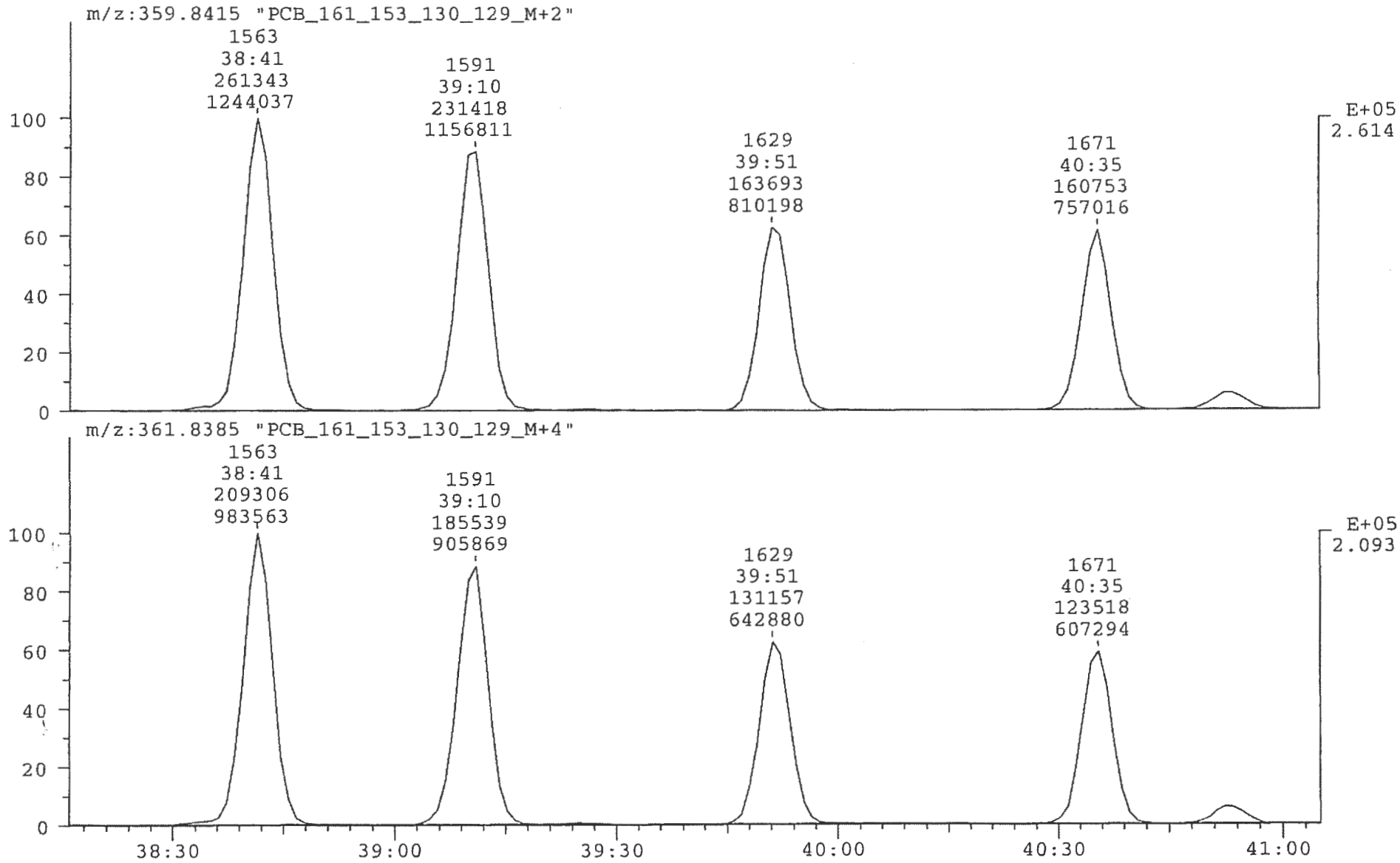


2025

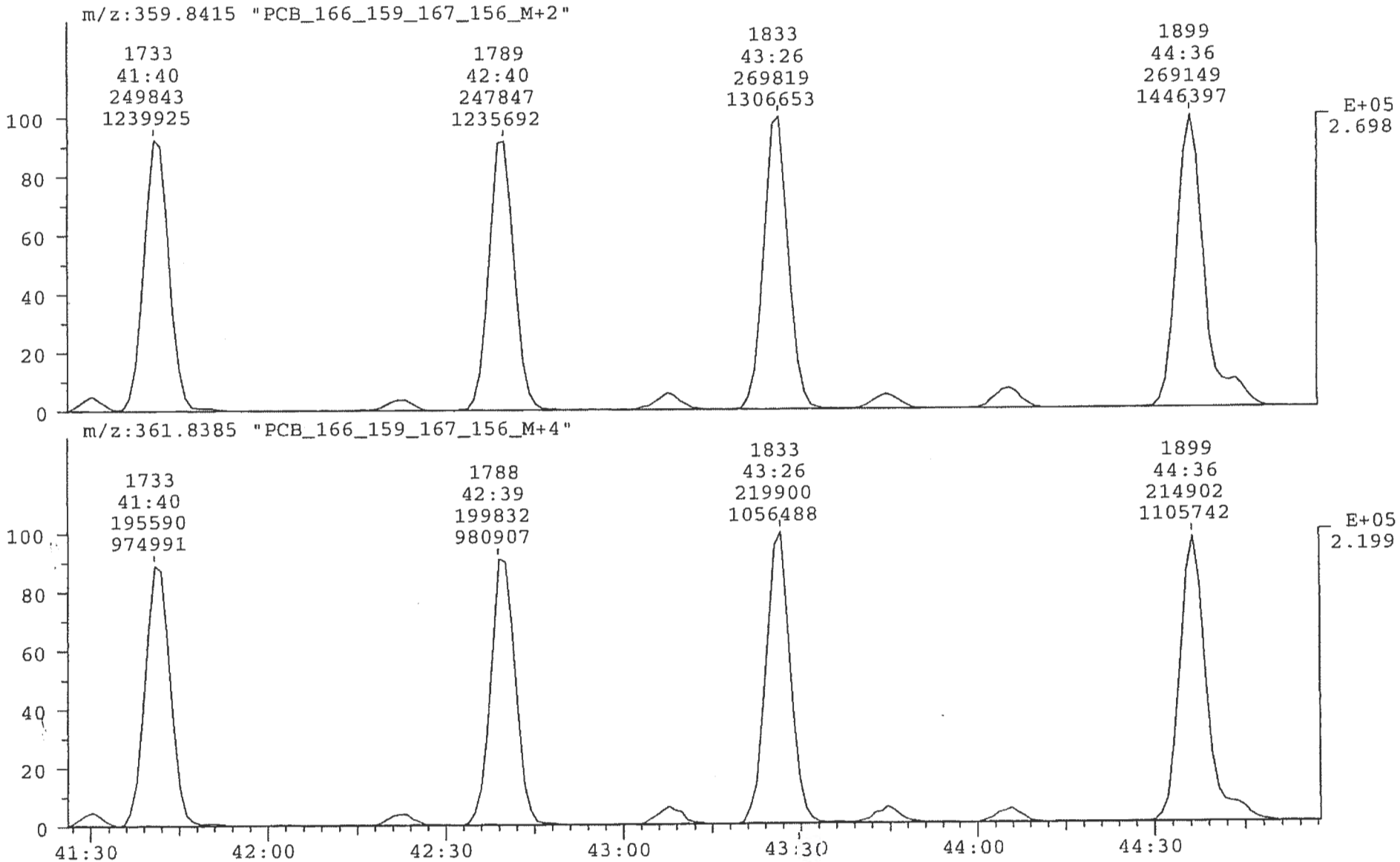
```
CHRO:  a07030713                                08-Mar-07   Elapse:  36:19      1429
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  3
Peak:  100.00  ppm      Label wndw:   1319 > 1544           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030713                              08-Mar-07   Elapse:  39:40      1619
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  03:20:29   2599
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  3
Peak:  100.00  ppm      Label wndw:   1539 > 1699         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

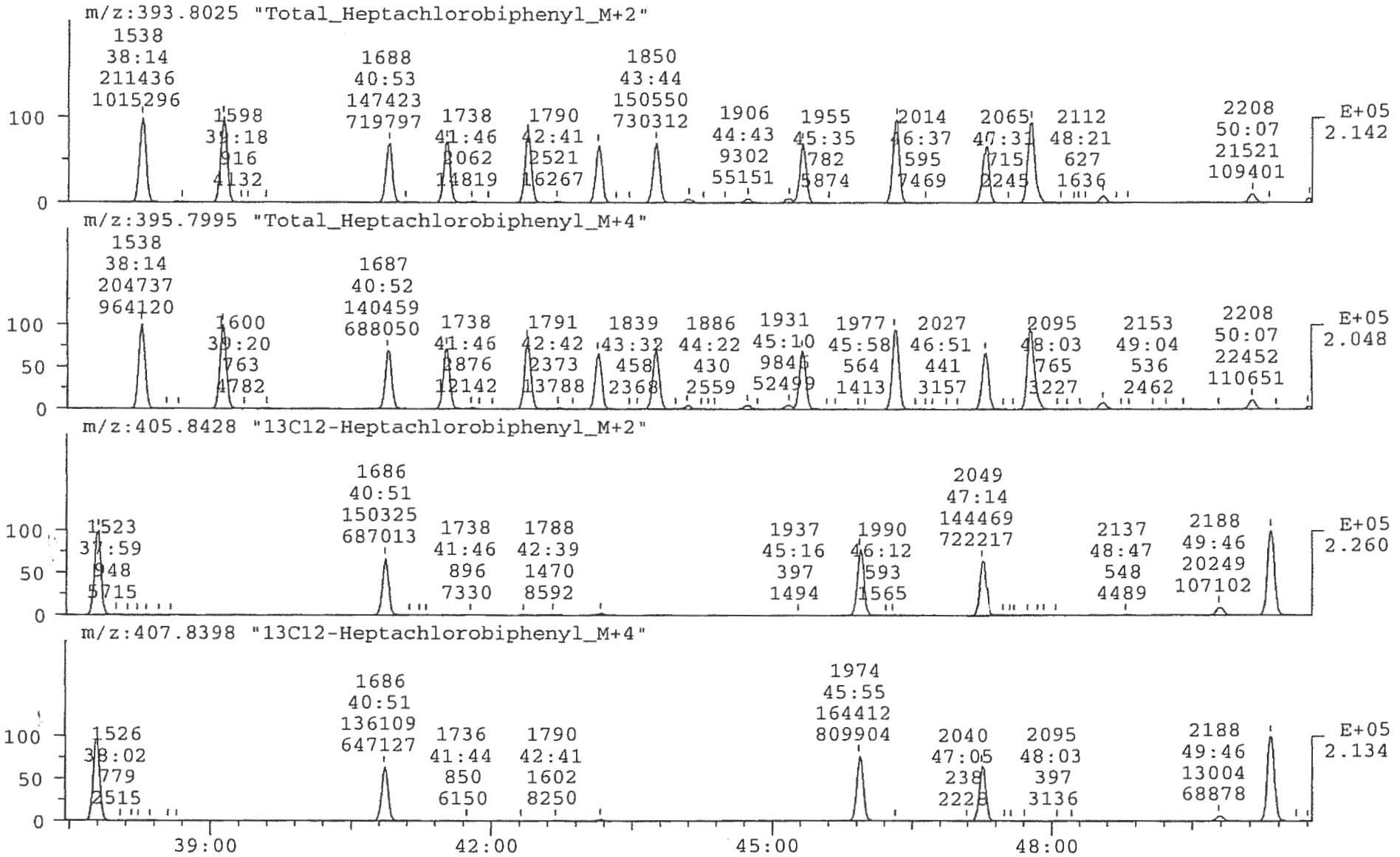


CHRO: a07030713 08-Mar-07 Elapse: 43:11 1819
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1719 > 1919 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



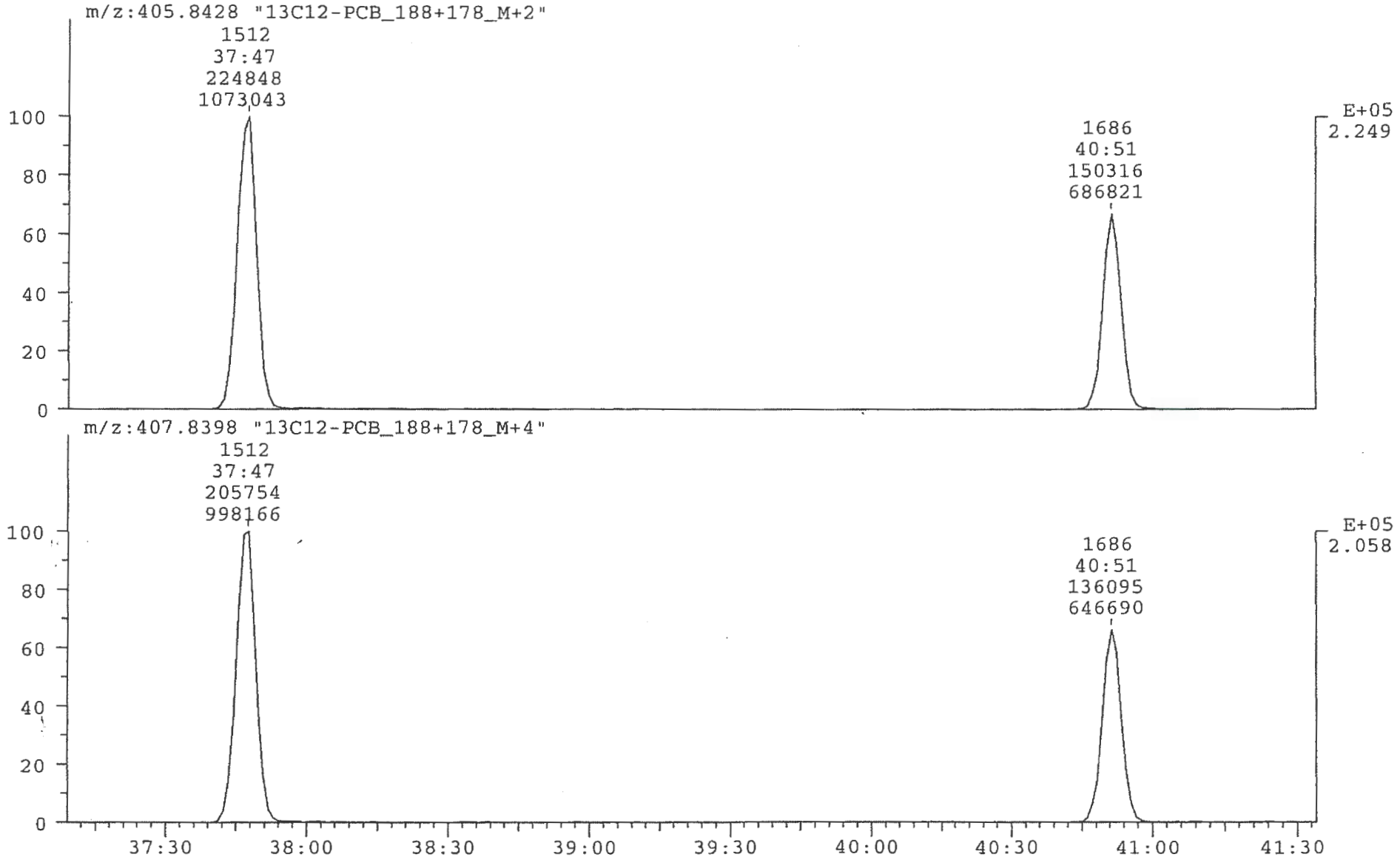
2028

CHRO: a07030713 08-Mar-07 Elapse: 44:05 1870
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1493 > 2243 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

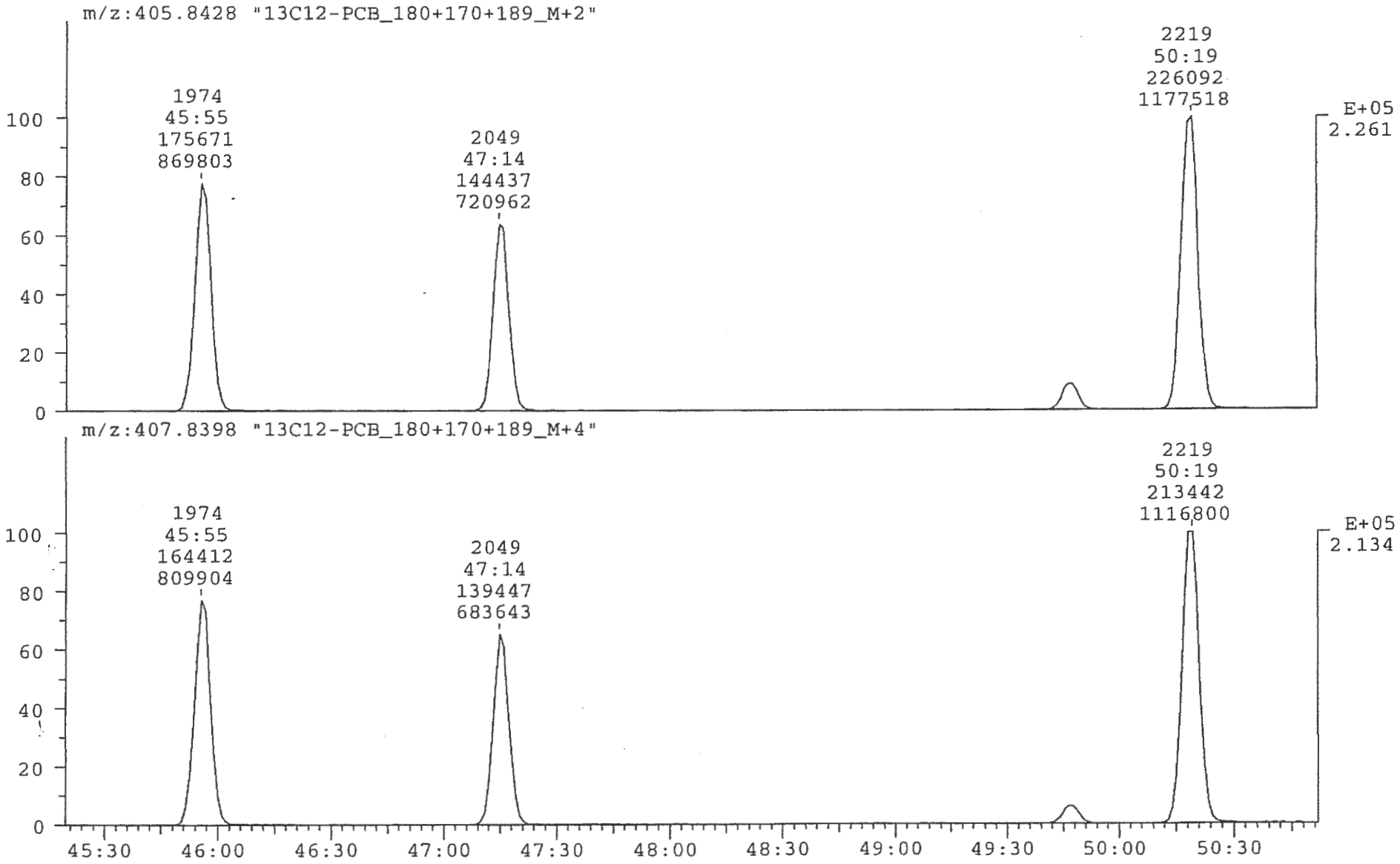


2029

```
CHRO:  a07030713                                08-Mar-07   Elapse:  39:21      1601
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1476 > 1726           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

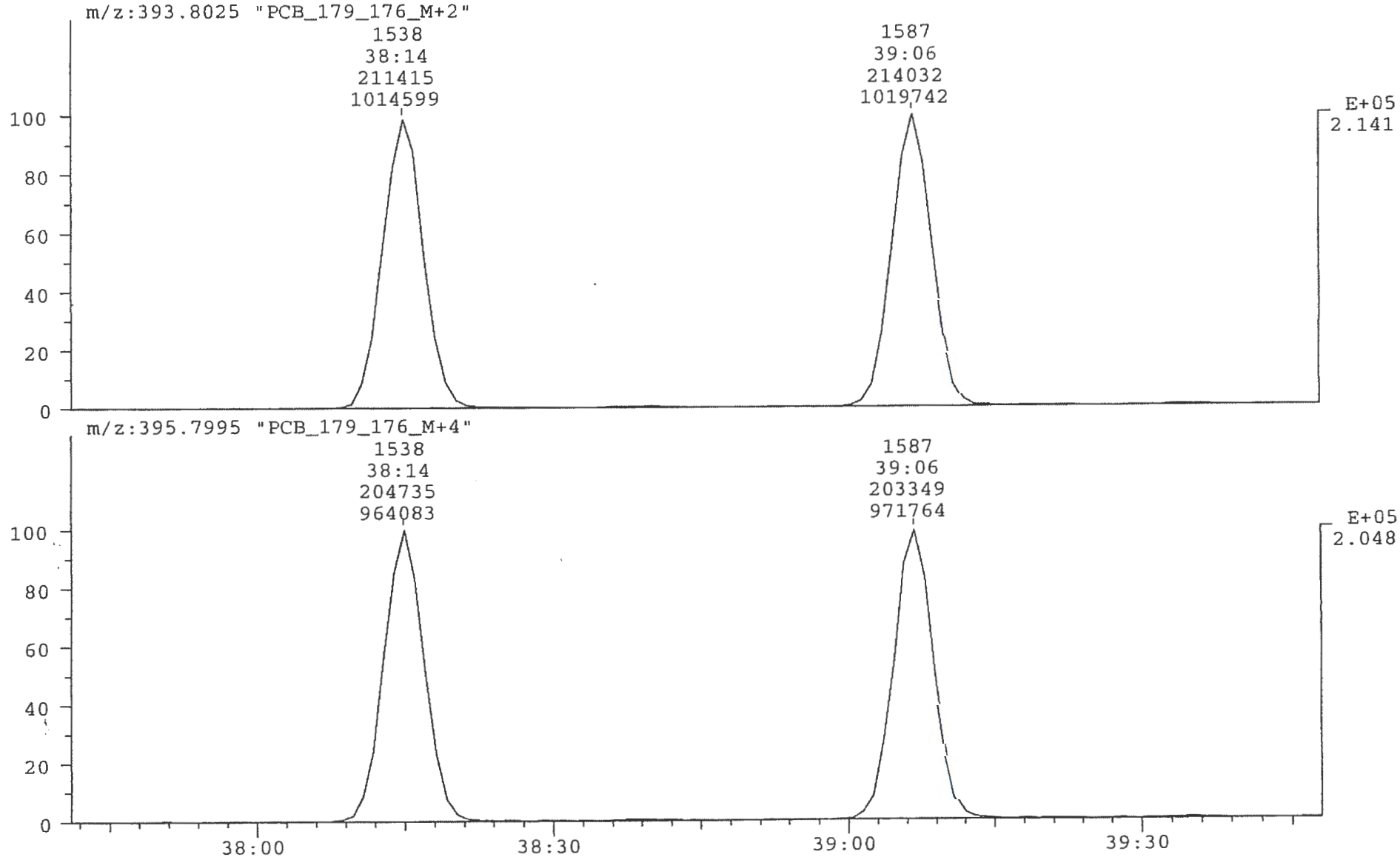


CHRO: a07030713 08-Mar-07 Elapse: 48:08 2100
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=mid/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1940 > 2250 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



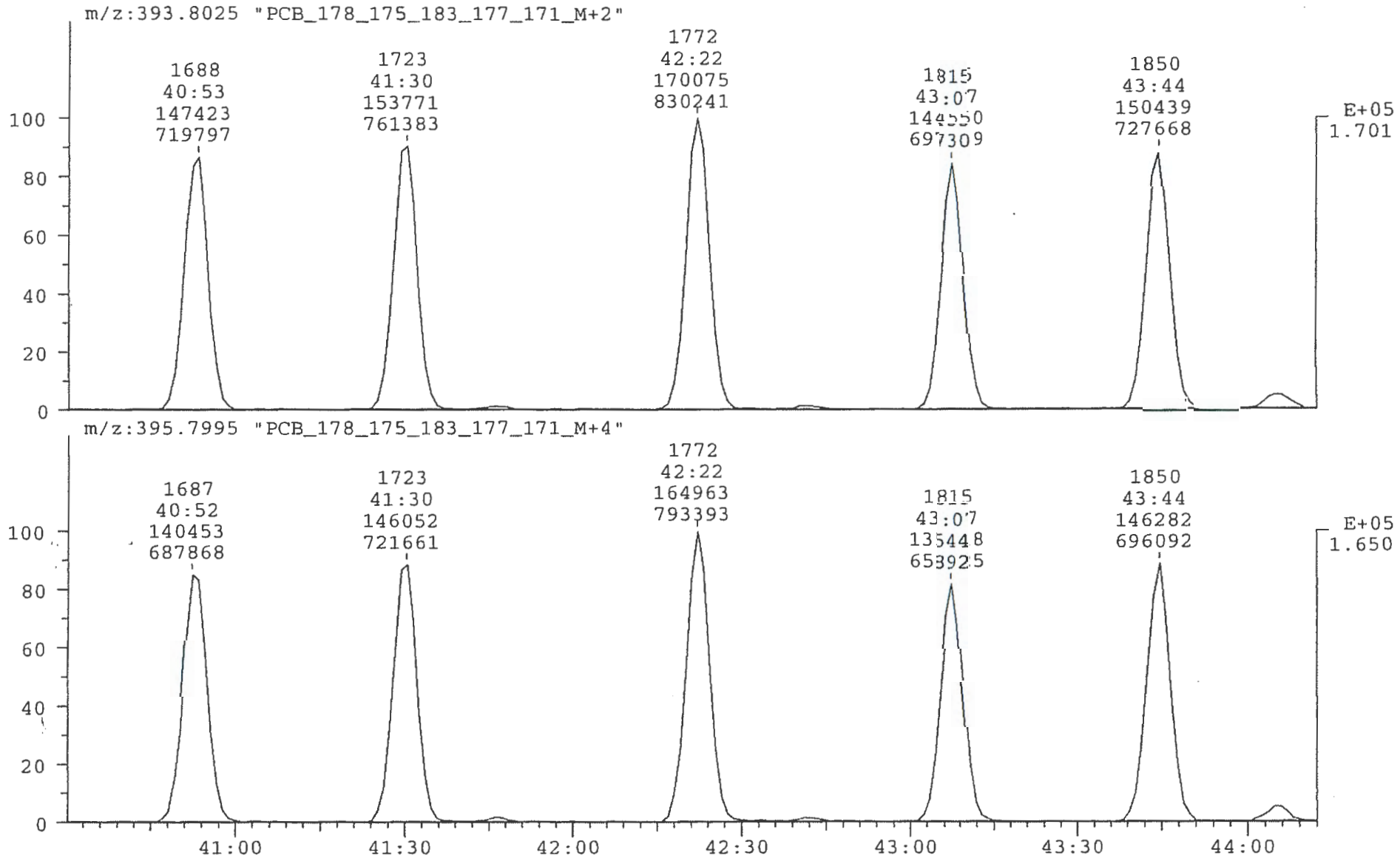
2031

```
CHRO:  a07030713                                08-Mar-07   Elapse:  38:44      1566
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  3
Peak:  100.00  ppm      Label wndw:   1506 > 1626           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

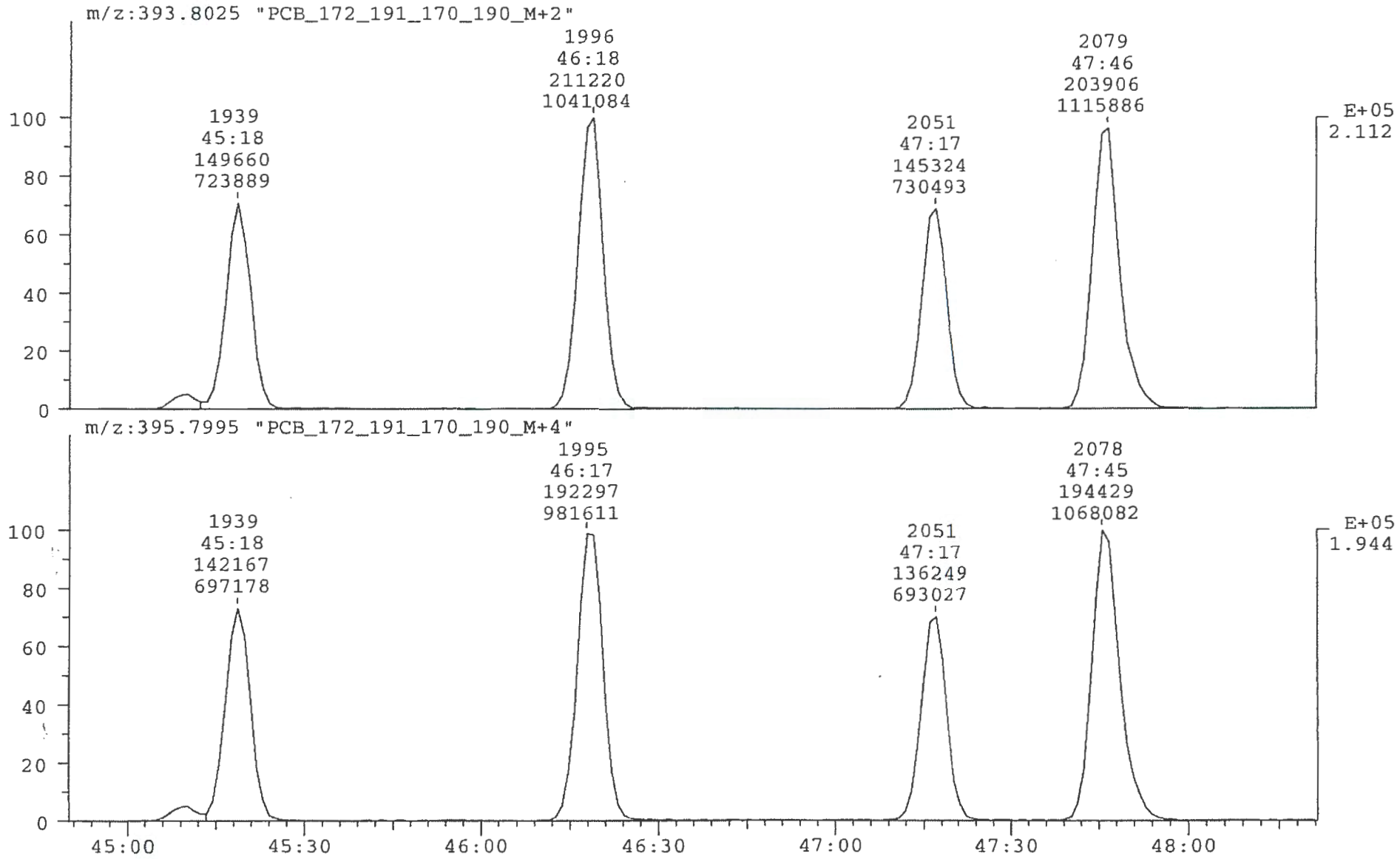


2032

CHRO: a07030713 08-Mar-07 Elapse: 42:21 1771
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1666 > 1876 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

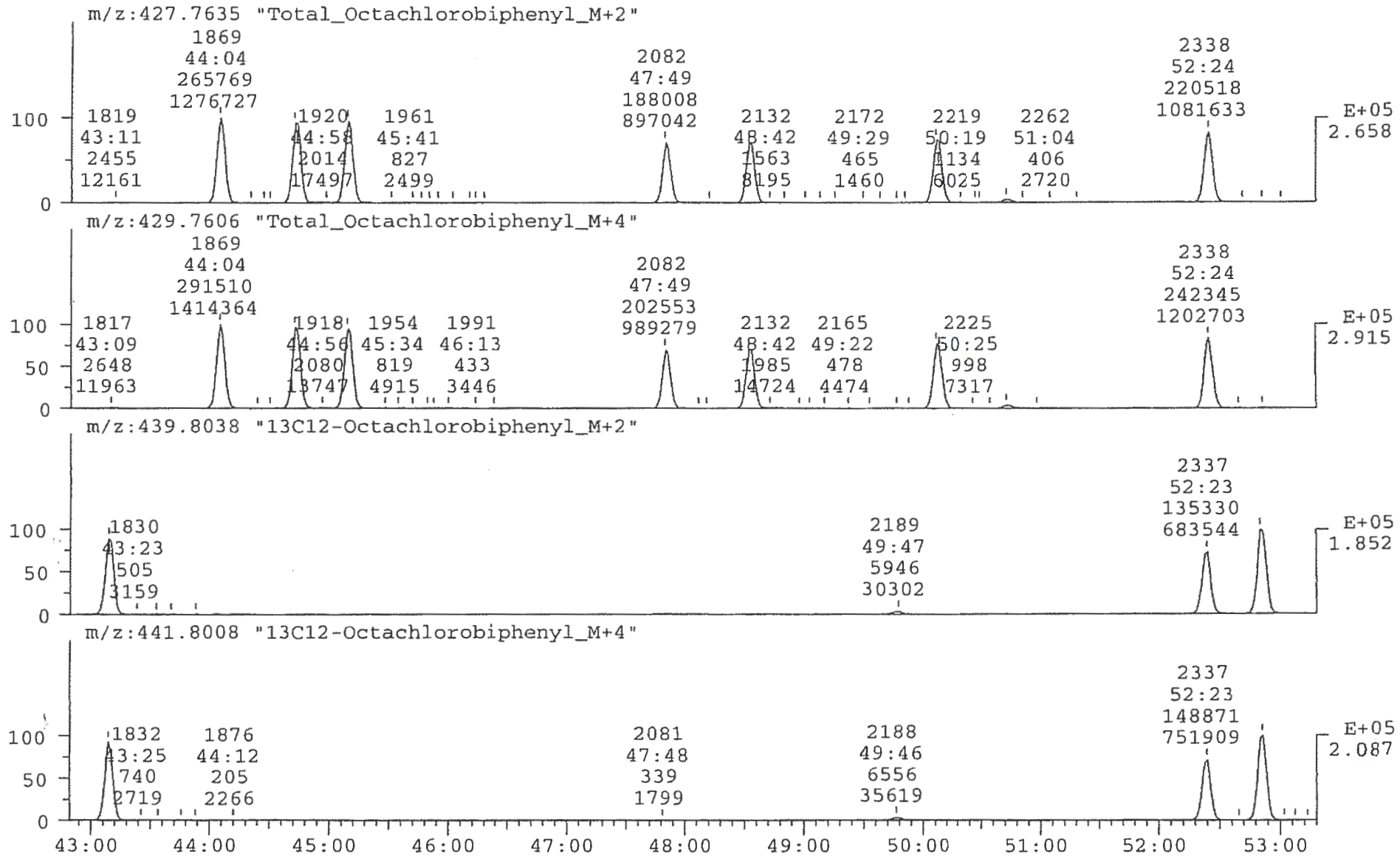


```
CHRO:  a07030713                                08-Mar-07   Elapse:  46:35      2012
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1912 > 2112           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

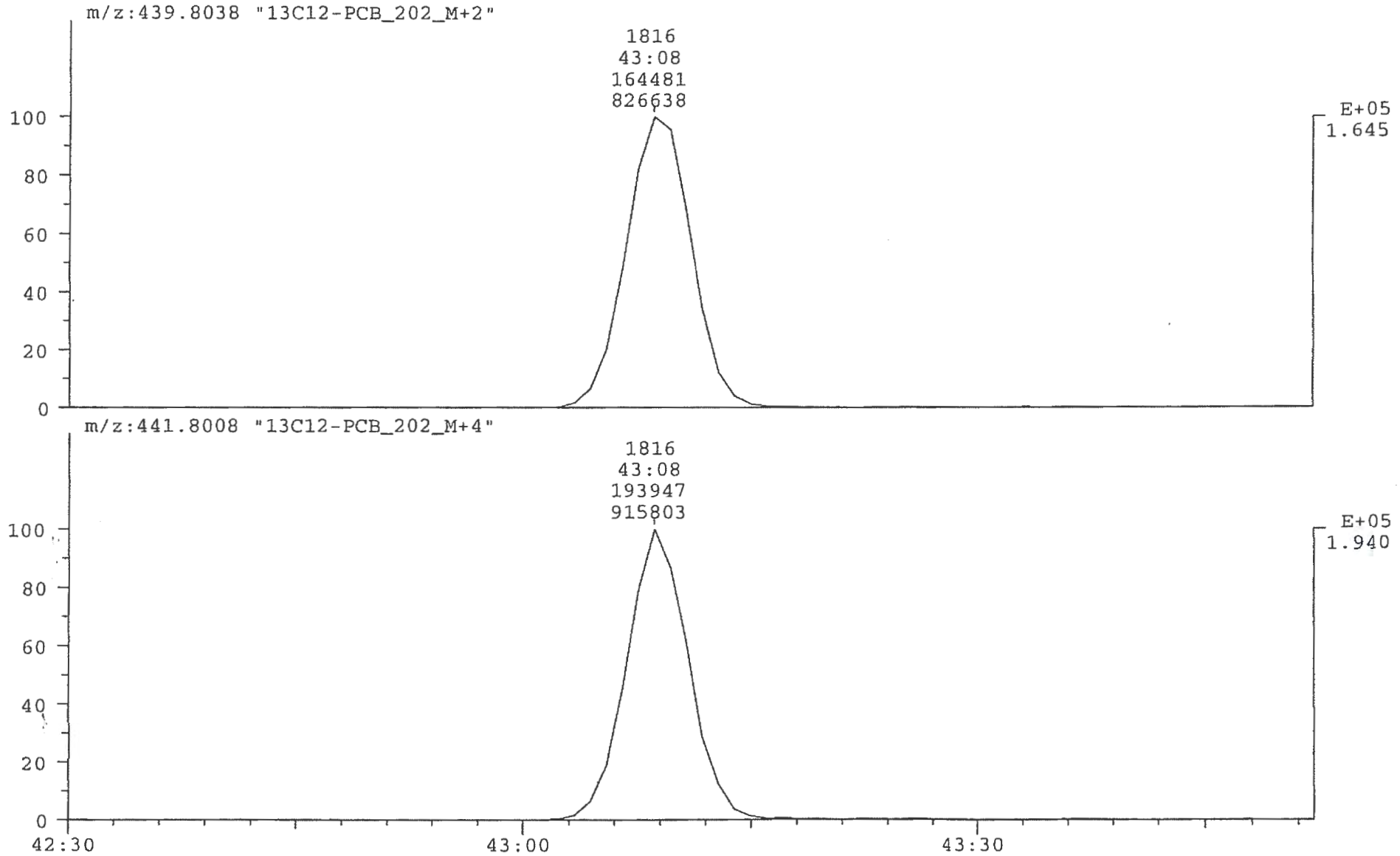


2034

CHRO: a07030713 08-Mar-07 Elapse: 48:03 2095
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 1797 > 2388 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

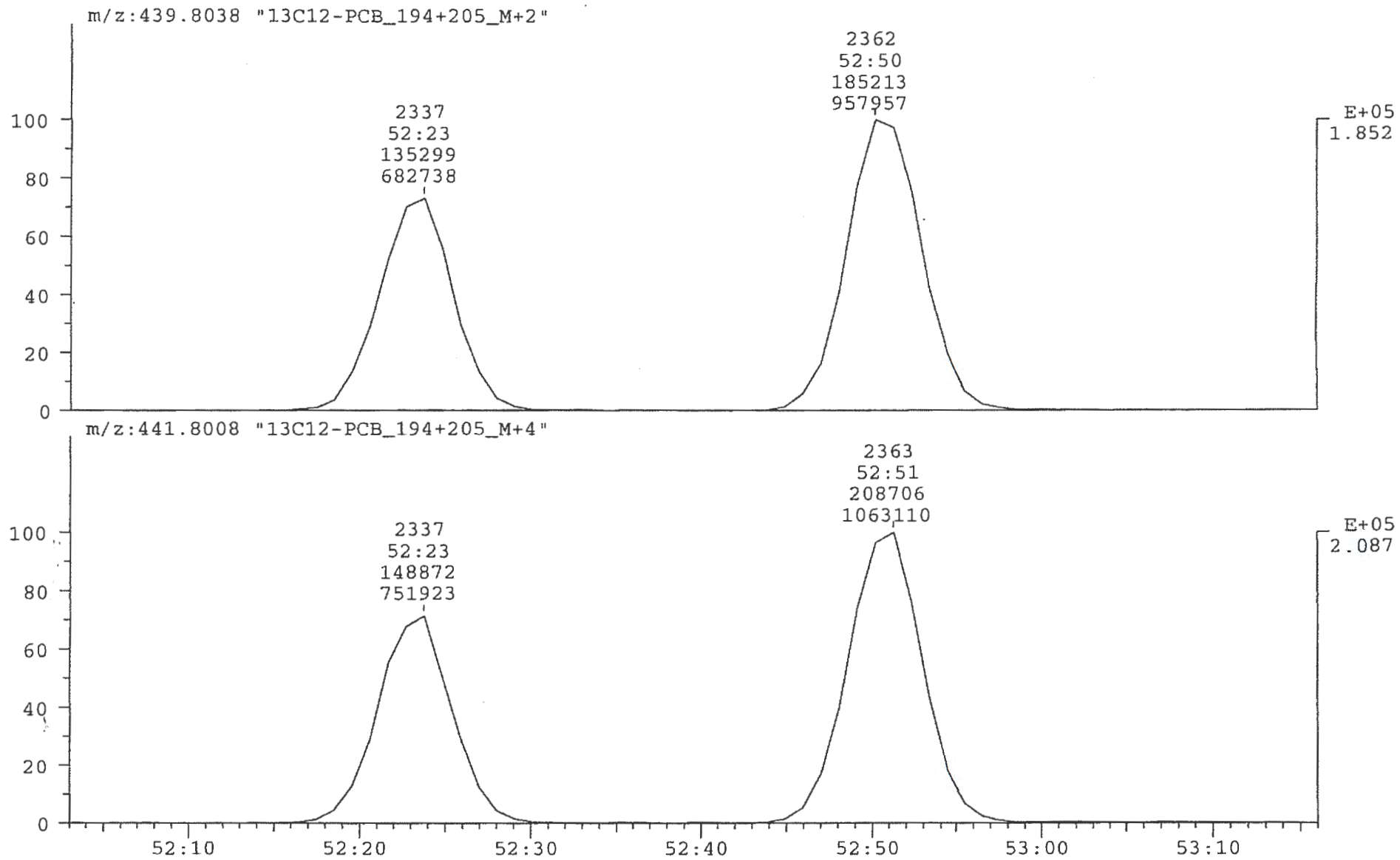


```
CHRO:  a07030713                                08-Mar-07   Elapse:  43:07      1815
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1779 > 1857           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



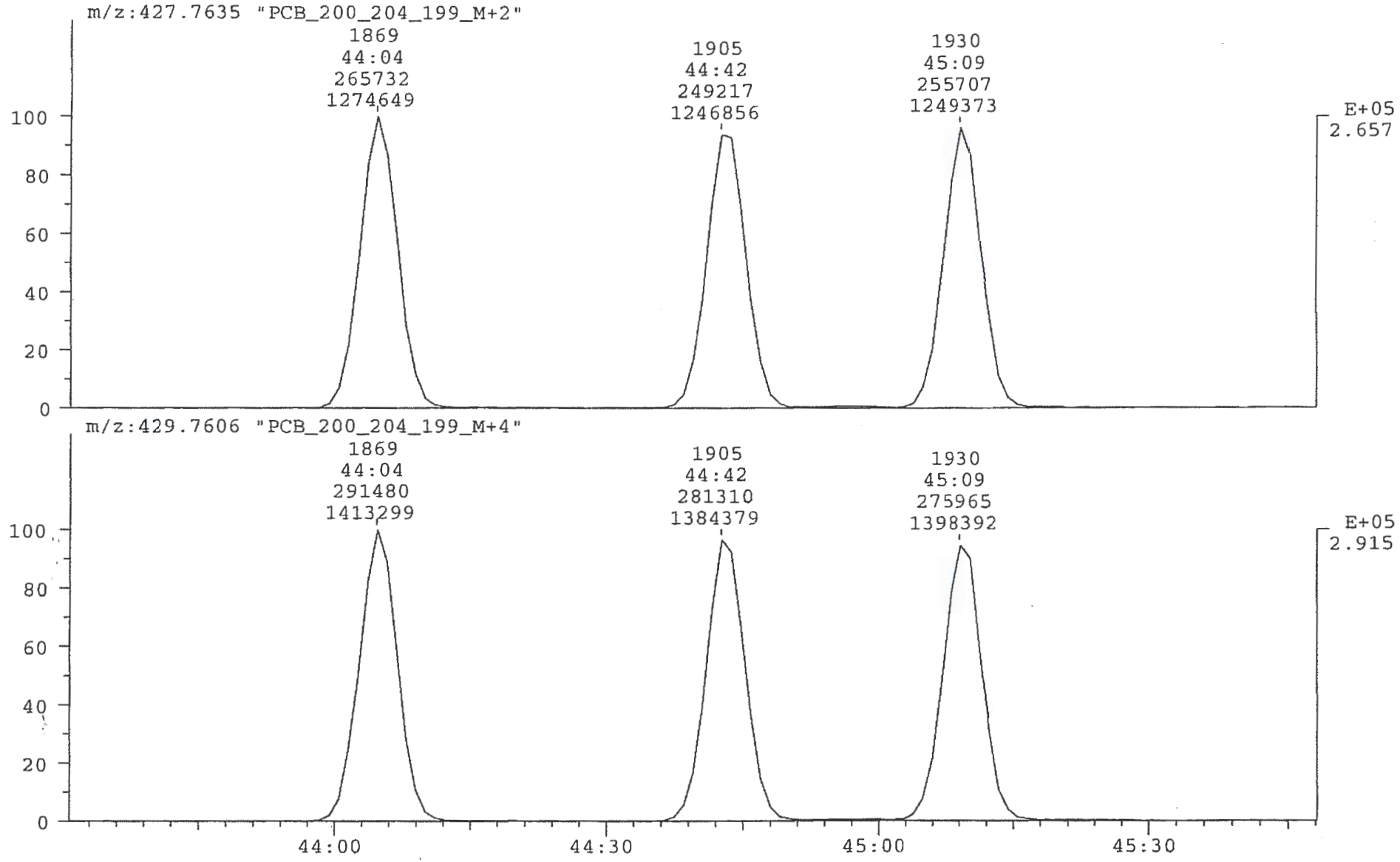
2036

```
CHRO:  a07030713                                08-Mar-07   Elapse:  52:38      2351
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   2317 > 2386           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

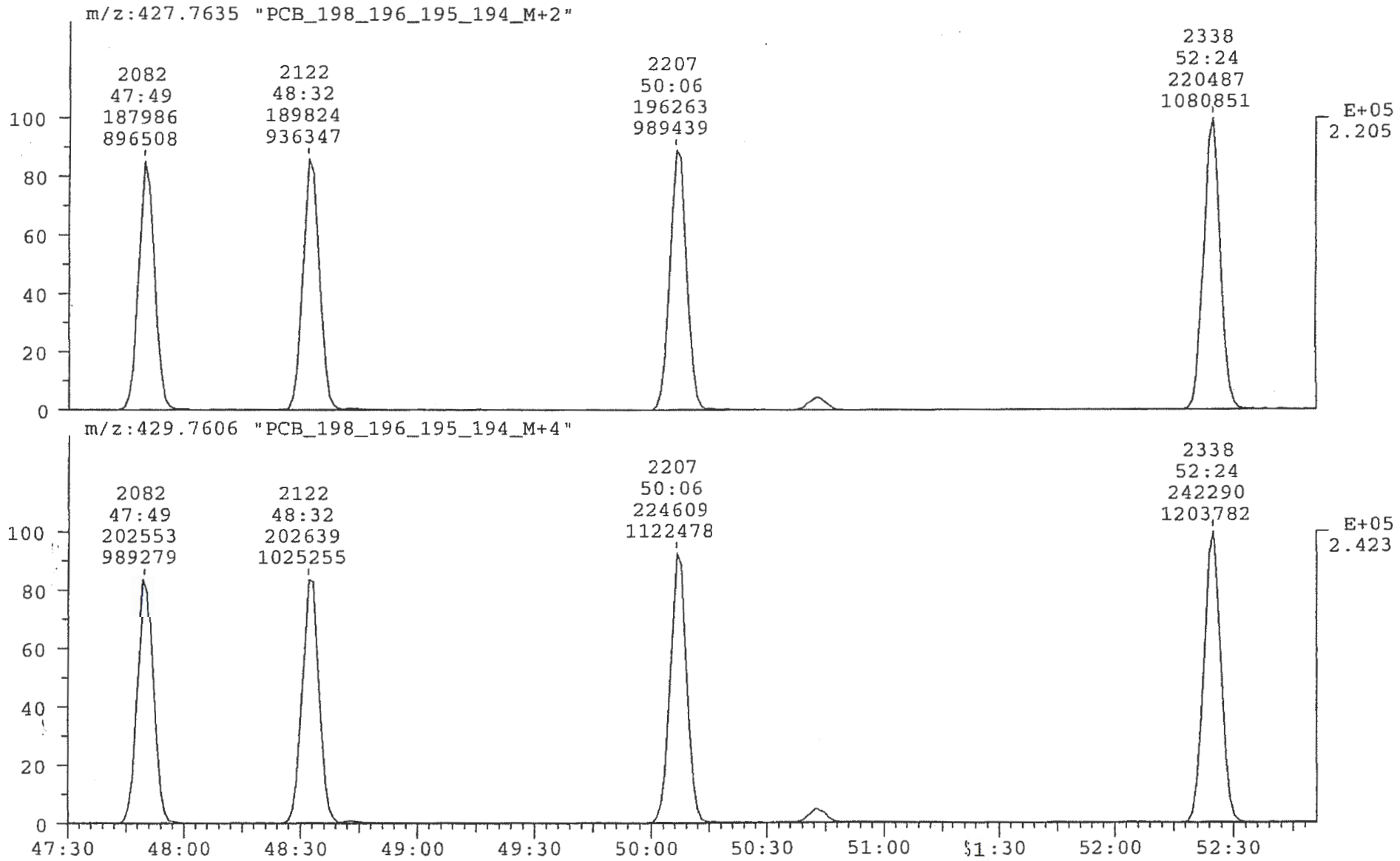


2037

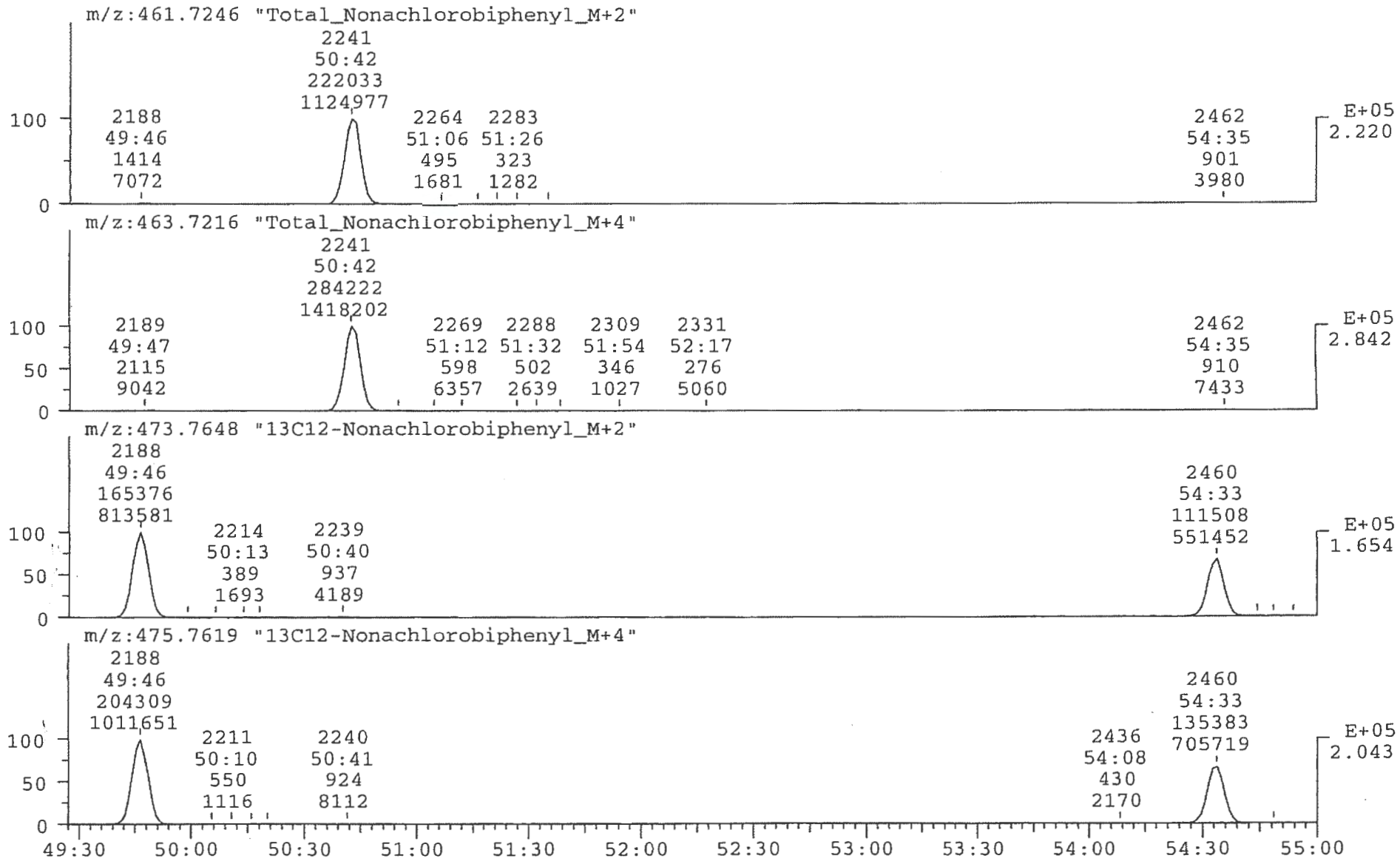
```
CHRO:  a07030713                                08-Mar-07   Elapse:  44:39      1902
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   1837 > 1967           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030713 08-Mar-07 Elapse: 50:09 2210
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 2063 > 2363 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

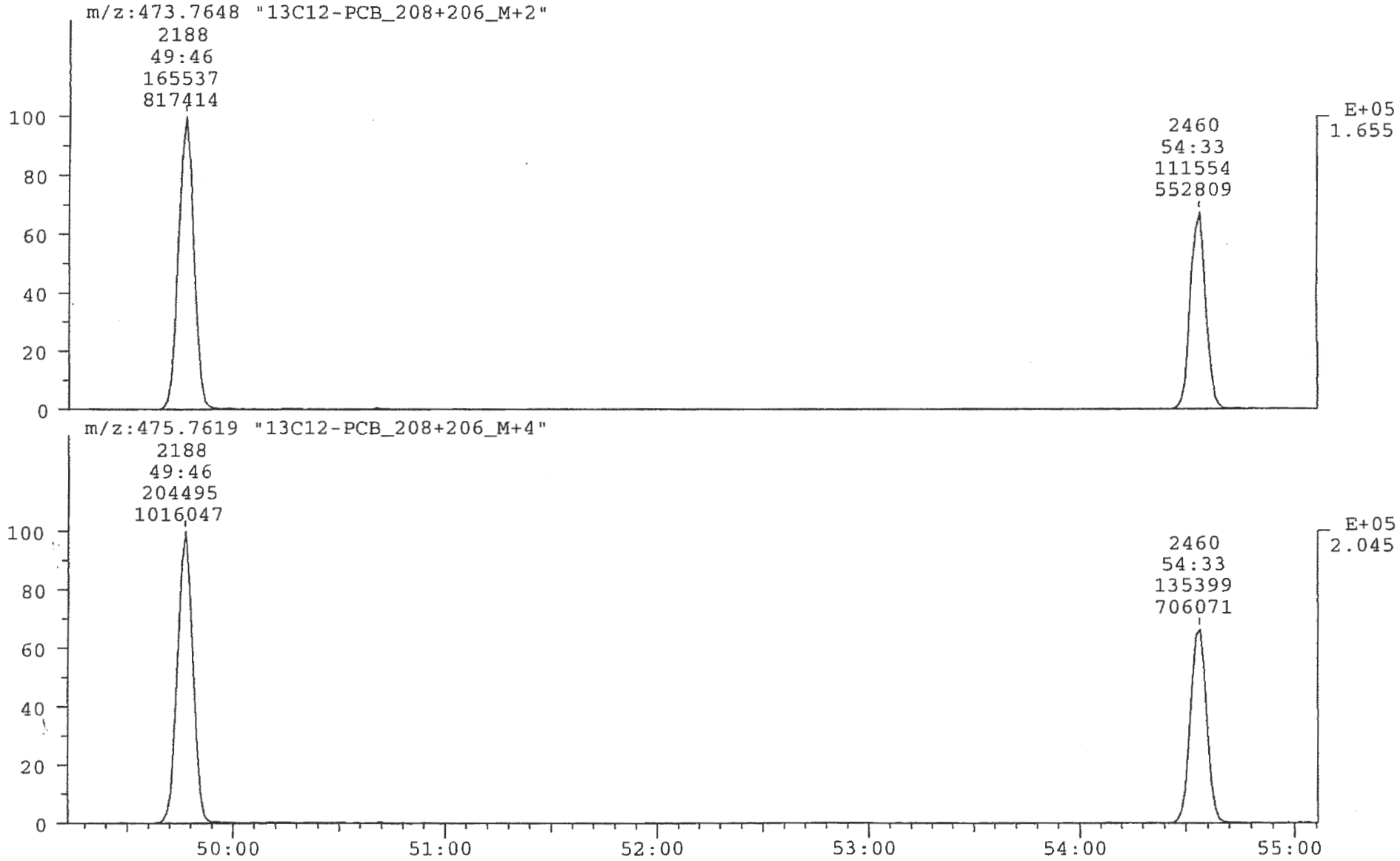


CHRO: a07030713 08-Mar-07 Elapse: 52:13 2327
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 2170 > 2485 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



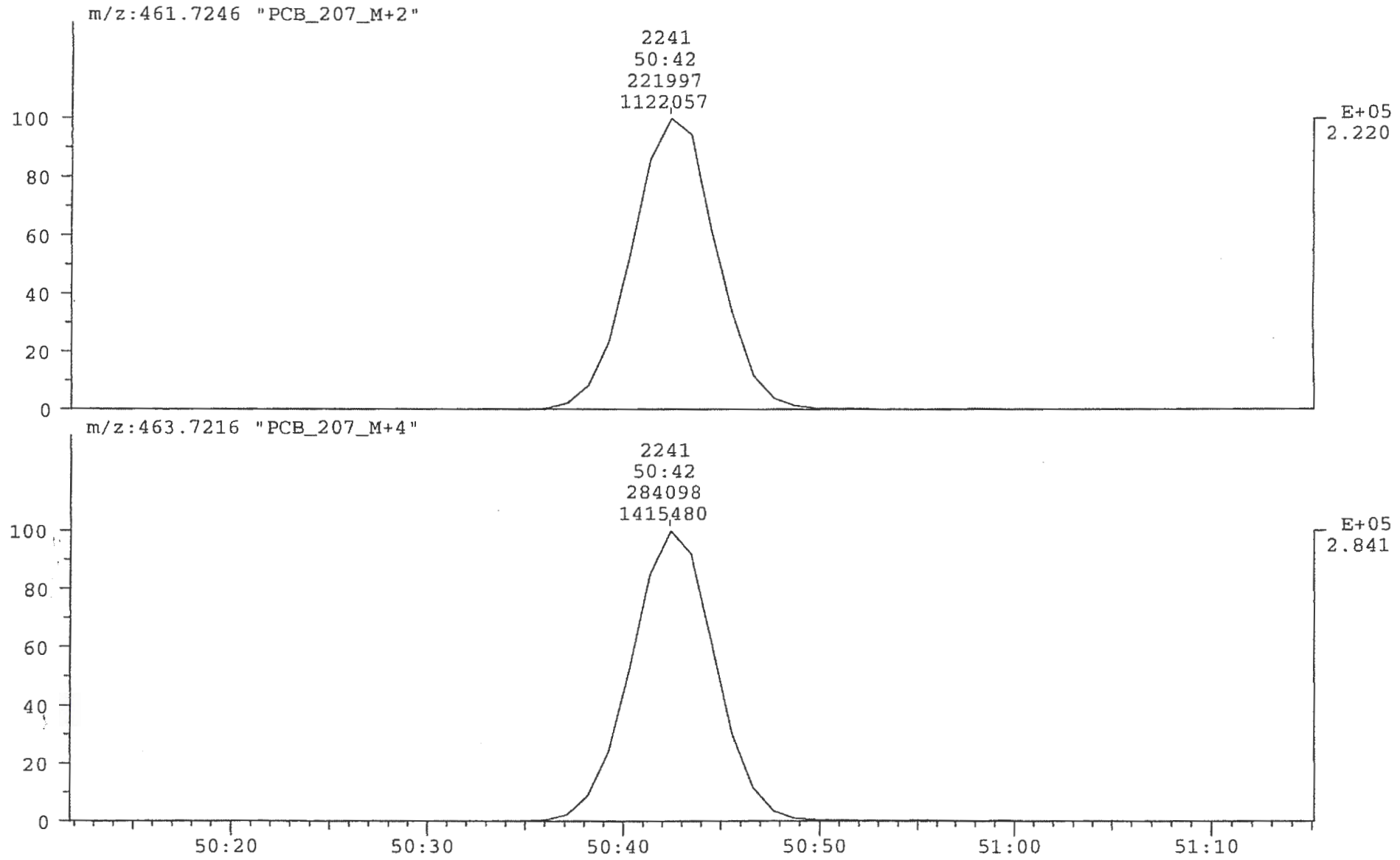
2040

CHRO: a07030713 08-Mar-07 Elapse: 52:12 2326
Samp: Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1 Start : 03:20:29 2599
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix1/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 3
Peak: 100.00 ppm Label wndw: 2161 > 2491 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2041

```
CHRO:  a07030713                                08-Mar-07   Elapse:  50:43      2242
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1                 Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   3
Peak:  100.00  ppm      Label wndw:   2212 > 2272           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



2042

```
CHRO:  a07030713                              08-Mar-07   Elapse:  56:12      2553
Samp:  Vial 3 WO=2990:75Mix1 Meth=IE3 Dil=1               Start :  03:20:29   2599
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix1/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  3
Peak:  100.00  ppm      Label wndw:   2513 > 2593         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
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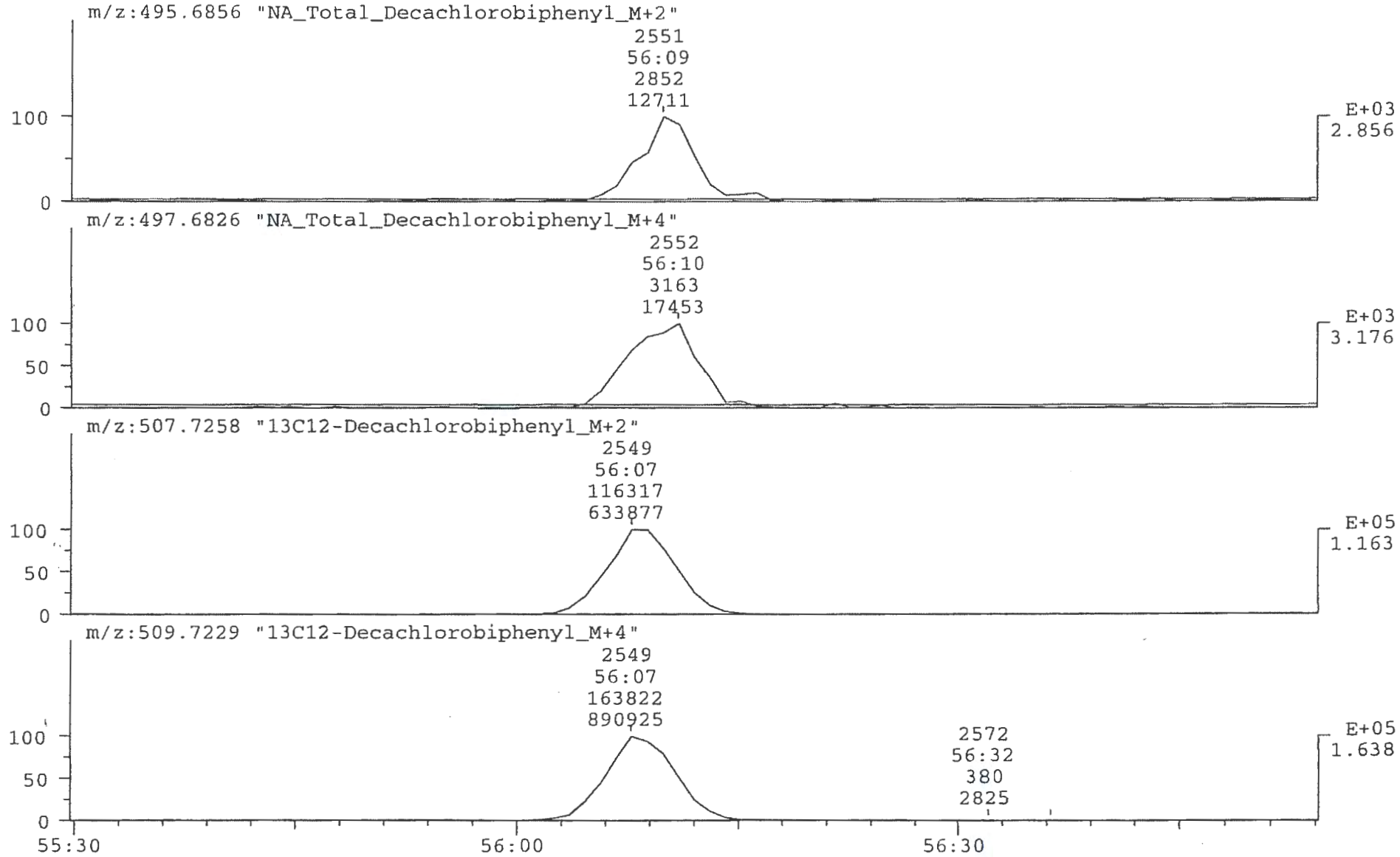


Instrument internet name - mat95
Instrument model - MAT 95
Instrument serial number - 000000
Workstation internet name - icis1ms
ICIS Version 8.2.1

ICL Version: 10.710
File name: a07030713
Study: 1668 RT Mix1/Run3
Sample: WO=2990:75Mix1 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 3
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 11 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	261.0000
FVINLET	250.0000	FVSRC	856.0000	FWIN	0.7000
GCTC	214.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.1863	HVANAL	1294.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2607.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8700	TCURR	0.7031
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 03:20:29.9

Autosampler has injected sample from vial 3
MID Time Window 1: Resolution is 7541
MID Time Window 2: Resolution is 7472
MID Time Window 3: Resolution is 8573
MID Time Window 4: Resolution is 8803
Analysis stopped at: 08-Mar-07 04:17:32.6 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030721.	Prep Date		SDG No	
Analysis ID	96242	Prep Exp Date		Date Received	
Analysis Date	03/07/07 18:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	228	278	91	111	0.82 *	/	
	13C12-PCB 1	12:13	00:00	0	2468231	768159	920992	288942	3.21	AVV/AVV	
	13C12-PCB 3	14:27	00:00	0	2452229	768024	805947	243334	3.19	AVV/ABV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	263	383	105	153	0.69 *	/	
	PCB 7 (BZ)	16:51	00:00	0	965056	608576	293594	184657	1.59	AVV/ABV	D
	PCB 5 (BZ)	17:27	00:00	0	903221	576620	266955	165090	1.57	AVV/AVV	
	PCB 12 (BZ)	20:25	00:00	0	938991	596945	233327	144869	1.57	ABV/ABV	M
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	338	205	135	82	1.65	/	
	13C12-PCB 4	14:43	00:00	0	1076725	663370	368457	226812	1.62	AVV/AVV	
	13C12-PCB 9	16:41	00:00	0	1863076	1139902	575421	353319	1.63	ABV/ABV	
	13C12-PCB 8	17:34	00:00	0	1952240	1212797	569530	350205	1.61	AVV/AVV	
	13C12-PCB 15	20:42	00:00	0	1884947	1169874	476333	302460	1.61	AVV/AVV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	175	170	70	68	1.03	/	
	PCB 18 (BZ)	19:47	00:00	0	413086	385768	113364	104646	1.07	ABV/ABV	
	PCB 24 (BZ)	20:32	00:00	0	579705	546381	150611	144854	1.06	AVV/AVV	
	PCB 23 (BZ)	22:33	00:00	0	777342	781116	190081	197692	1.00	AVV/ABV	
	PCB 28 (BZ)	23:44	00:00	0	853599	819787	201896	189601	1.04	ABV/ABV	D
	PCB 22 (BZ)	24:26	00:00	0	805866	775946	189169	183957	1.04	AVV/AVV	D
	PCB 39 (BZ)	26:18	00:00	0	903337	876173	203161	191643	1.03	ABV/ABV	D
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	575	328	230	131	1.76 *	/	
	13C12-PCB 19	17:55	00:00	0	670039	620994	190596	169859	1.08	AVV/AVV	
	13C12-PCB 32	21:10	00:00	0	1252384	1155028	324893	295696	1.08	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1737719	1649052	432137	406408	1.05	ABV/ABV	
	13C12-PCB 28	23:42	00:00	0	1629372	1553900	384880	369675	1.05	AVV/AVV	
	13C12-PCB 37	27:47	00:00	0	1510639	1422287	338164	317906	1.06	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	190	245	76	98	0.78	/	
	PCB 53 (BZ)	23:13	00:00	0	849338	1074160	207434	263646	0.79	ABV/ABV	M
	PCB 51 (BZ)	23:57	00:00	0	866324	1093131	201116	257591	0.79	ABB/ABB	M
	PCB 73 (BZ)	25:43	00:00	0	1126492	1403233	267178	335263	0.80	ABV/ABV	
	PCB 48 (BZ)	26:21	00:00	0	870768	1091545	206594	257279	0.80	AVV/ABV	
	PCB 62 (BZ)	26:49	00:00	0	1097588	1399206	243601	308887	0.78	AVV/AVV	
	PCB 71 (BZ)	27:39	00:00	0	1198781	1522976	275380	344950	0.79	ABV/ABV	D
	PCB 68 (BZ)	28:54	00:00	0	1220431	1554707	279441	361375	0.78	ABV/ABV	D
	PCB 58 (BZ)	29:36	00:00	0	1227008	1569518	271485	345006	0.78	AVV/AVV	D
	PCB 61 (BZ)	30:14	00:00	0	1101094	1422047	243386	312804	0.77	AVV/AVV	D
	PCB 55 (BZ)	30:54	00:00	0	1152820	1494383	256180	326855	0.77	AVV/AVV	D

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030721.	Prep Date		SDG No	
Analysis ID	96242	Prep Exp Date		Date Received	
Analysis Date	03/07/07 18:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	PCB 60 (BZ)	31:38	00:00	0	1199349	1528558	255355	328864	0.78	ABV/AVV	D
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	135	160	54	64	0.84	/	
	13C12-PCB 54	21:03	00:00	0	599159	733974	147435	178260	0.82	ABV/ABV	
	13C12-PCB 52	25:34	00:00	0	832487	1048853	194582	241269	0.79	ABV/ABV	
	13C12-PCB 79	33:30	00:00	0	1241779	1535391	271443	339890	0.81	ABV/ABV	
	13C12-PCB 81	34:32	00:00	0	1077896	1348062	229377	280323	0.80	ABV/ABV	D
	13C12-PCB 77	35:08	00:00	0	1097815	1391868	224029	283463	0.79	ABB/ABB	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	255	233	102	93	1.10 *	/	
	PCB 94 (BZ)	29:05	00:00	0	891026	561077	201419	127844	1.59	ABV/ABV	D
	PCB 100 (BZ)	29:38	00:00	0	1085008	681687	246360	156325	1.59	AVV/AVV	
	PCB 91 (BZ)	30:24	00:00	0	998613	616878	223911	140288	1.62	AVV/ABV	D
	PCB 121 (BZ)	31:23	00:00	0	1358589	852591	293000	188872	1.59	ABV/ABV	D
	PCB 90 (BZ)	32:24	00:00	0	954384	592431	203536	124903	1.61	ABV/ABV	DM
	PCB 99 (BZ)	32:59	00:00	0	1141046	712010	240316	150002	1.60	ABV/AVV	DM
	PCB 109 (BZ)/108 (IUPAC	33:26	00:00	0	1317372	823921	286112	172890	1.60	AVV/AVV	
	PCB 117 (BZ)	34:08	00:00	0	1349740	844115	285473	179420	1.60	ABV/AVV	D
	PCB 111 (BZ)	35:02	00:00	0	1411300	898221	308577	198001	1.57	ABB/ABV	D
	PCB 108 (BZ)/107 (IUPAC	36:42	00:00	0	1534695	984368	307207	199855	1.56	ABV/ABV	DM
	PCB 118 (BZ)	37:23	00:00	0	1497066	954562	321253	207262	1.57	AVV/AVV	
	PCB 114 (BZ)	37:56	00:00	0	1537167	997187	315006	204836	1.54	AVV/AVV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	153	143	61	57	1.07 *	/	
	13C12-PCB 104	26:30	00:00	0	1257580	794048	286313	183510	1.58	ABV/ABV	D
	13C12-PCB 95	29:32	00:00	0	984199	612929	210911	129200	1.61	ABV/ABV	D
	13C12-PCB 101	32:23	00:00	0	1038588	637398	227909	138232	1.63	ABV/AVV	
	13C12-PCB 111	35:01	00:00	0	1299526	822362	273486	170818	1.58	ABV/AVV	
	13C12-PCB 123	37:02	00:00	0	1480391	948591	318971	201044	1.56	ABV/ABV	D
	13C12-PCB 118	37:22	00:00	0	1558231	989221	322880	201554	1.58	AVV/AVV	D
	13C12-PCB 114	37:54	00:00	0	1521045	952031	314290	194792	1.60	AVV/AVV	D
	13C12-PCB 105	38:37	00:00	0	1487080	927316	301247	187408	1.60	ABB/ABV	D
	13C12-PCB 127	39:59	00:00	0	1676677	1062254	340651	220438	1.58	ABV/AVV	
	13C12-PCB 126	41:40	00:00	0	1598006	1005411	325321	200252	1.59	AVV/AVV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	220	395	88	158	0.56 *	/	
	PCB 150 (BZ)	32:33	00:00	0	1066274	855729	223236	182858	1.25	ABV/ABV	D
	PCB 145 (BZ)	33:15	00:00	0	1031204	816543	227167	172006	1.26	ABV/ABV	D
	PCB 135 (BZ)	35:24	00:00	0	752780	580503	167100	125209	1.30	ABV/ABV	D
	PCB 149 (BZ)	36:16	00:00	0	1011111	805992	211215	167005	1.25	ABV/ABV	DM
	PCB 139 (BZ)	36:47	00:00	0	991798	770220	202619	164184	1.29	AVV/AVV	D
	PCB 132 (BZ)	37:35	00:00	0	856265	677826	180542	142018	1.26	AVV/AVV	D
	PCB 165 (BZ)	38:20	00:00	0	1177125	948192	251349	199593	1.24	ABV/ABV	D

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030721.	Prep Date		SDG No	
Analysis ID	96242	Prep Exp Date		Date Received	
Analysis Date	03/07/07 18:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	PCB 168 (BZ)	39:14	00:00	0	1281821	1019100	271558	215789	1.26	ABV/AVV	DM
	PCB 137 (BZ)	40:04	00:00	0	970394	766613	205596	163971	1.27	AVV/AVV	D
	PCB 160 (BZ)	40:40	00:00	0	1243254	978649	256081	198970	1.27	ABV/ABV	M
	PCB 128 (BZ)	41:50	00:00	0	919127	735723	185229	148294	1.25	ABV/ABV	
	PCB 162 (BZ)	42:59	00:00	0	1332090	1050564	274867	217328	1.27	AVV/ABV	
	PCB 157 (BZ)	44:43	00:00	0	1300421	1036137	265414	214305	1.26	AVV/ABV	M
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	120	140	48	56	0.86 *	/	
	13C12-PCB 155	32:04	00:00	0	1058862	829522	226505	179590	1.28	ABV/ABV	D
	13C12-PCB 153	39:10	00:00	0	1122818	869729	232745	184285	1.29	ABV/ABV	D
	13C12-PCB 138	40:29	00:00	0	1079158	842525	229582	172047	1.28	ABV/ABV	
	13C12-PCB 167	43:26	00:00	0	1326526	1044273	266720	208340	1.27	AVV/AVV	
	13C12-PCB 156	44:36	00:00	0	1153332	915406	263400	208912	1.26	ABV/ABV	D
	13C12-PCB 157	44:41	00:00	0	1447034	1129691	285878	224908	1.28	AVB/AVB	M
	13C12-PCB 169	47:52	00:00	0	1256400	986642	256295	205194	1.27	ABV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	240	308	96	123	0.78 *	/	
	PCB 184 (BZ)	38:40	00:00	0	1141081	1084637	239241	224464	1.05	ABV/ABV	
	PCB 186 (BZ)	39:36	00:00	0	1047138	1005028	219549	209403	1.04	ABV/ABV	D
	PCB 187 (BZ)	41:48	00:00	0	888525	820538	179660	167042	1.08	ABV/AVV	D
	PCB 185 (BZ)	42:33	00:00	0	781509	751401	157336	154203	1.04	AVV/AVV	D
	PCB 181 (BZ)	43:30	00:00	0	816947	772387	166455	160481	1.06	AVV/AVV	D
	PCB 192 (BZ)	45:35	00:00	0	1016426	969820	210829	198583	1.05	AVV/ABV	D
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	155	133	62	53	1.17	/	
	13C12-PCB 188	37:49	00:00	0	1115234	1044423	231993	219376	1.07	ABV/ABV	D
	13C12-PCB 178	40:53	00:00	0	731901	686081	148759	143289	1.07	ABV/ABV	
	13C12-PCB 180	45:57	00:00	0	949069	861726	189593	174935	1.10	ABV/ABV	
	13C12-PCB 170	47:17	00:00	0	755493	706108	149553	140587	1.07	AVV/ABV	
	13C12-PCB 189	50:21	00:00	0	1173864	1122745	235338	218696	1.05	AVV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	180	190	72	76	0.95	/	
	PCB 197 (BZ)	44:59	00:00	0	1368074	1527760	282742	312867	0.90	ABV/ABV	
	PCB 201 (BZ)/199 (IUPAC	47:56	00:00	0	959159	1058531	197439	220092	0.91	ABV/ABV	DM
	PCB 203 (BZ)	48:45	00:00	0	1077909	1170669	217995	231260	0.92	AVB/AVV	D
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	113	135	45	54	0.83	/	
	13C12-PCB 202	43:10	00:00	0	872367	936066	177641	194104	0.93	ABV/ABV	D
	13C12-PCB 194	52:25	00:00	0	717848	790203	140112	159113	0.91	ABV/ABV	
	13C12-PCB 205	52:53	00:00	0	975503	1064632	194692	209012	0.92	ABV/ABV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	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

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030721.	Prep Date		SDG No	
Analysis ID	96242	Prep Exp Date		Date Received	
Analysis Date	03/07/07 18:05	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

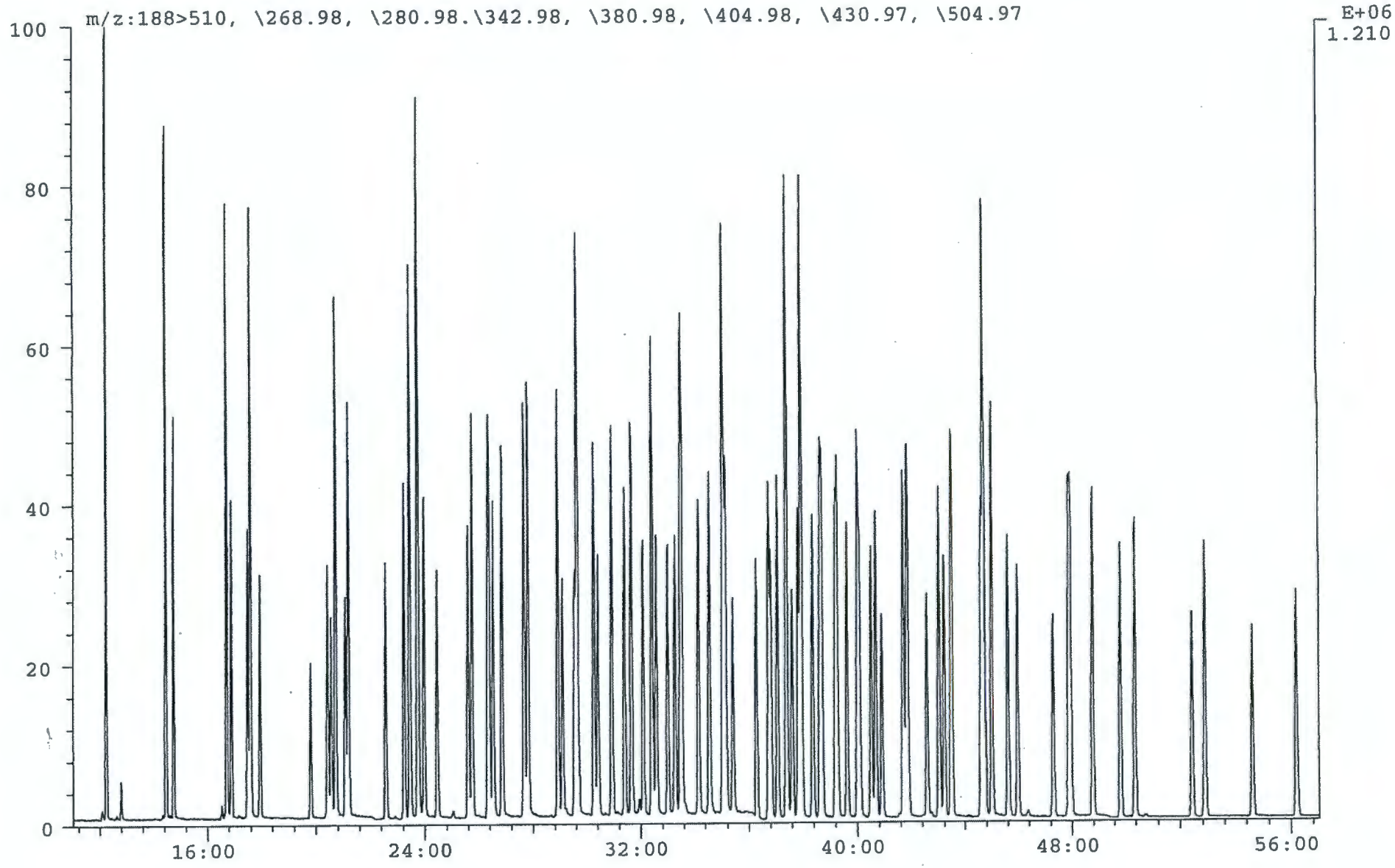
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89	
	Noise	00:00	00:00	0	140	168	56	67	0.84	/
	13C12-PCB 208	49:48	00:00	0	853275	1061036	174567	214194	0.80	AVV/AVV
	13C12-PCB 206	54:35	00:00	0	556545	710317	111580	145043	0.78	ABV/ABV
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79	
	Noise	00:00	00:00	0	95	88	38	35	1.09 *	/
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79	
	Noise	00:00	00:00	0	115	220	46	88	0.52 *	/
	13C12-PCB 209	56:10	00:00	0	651110	925014	118913	175410	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

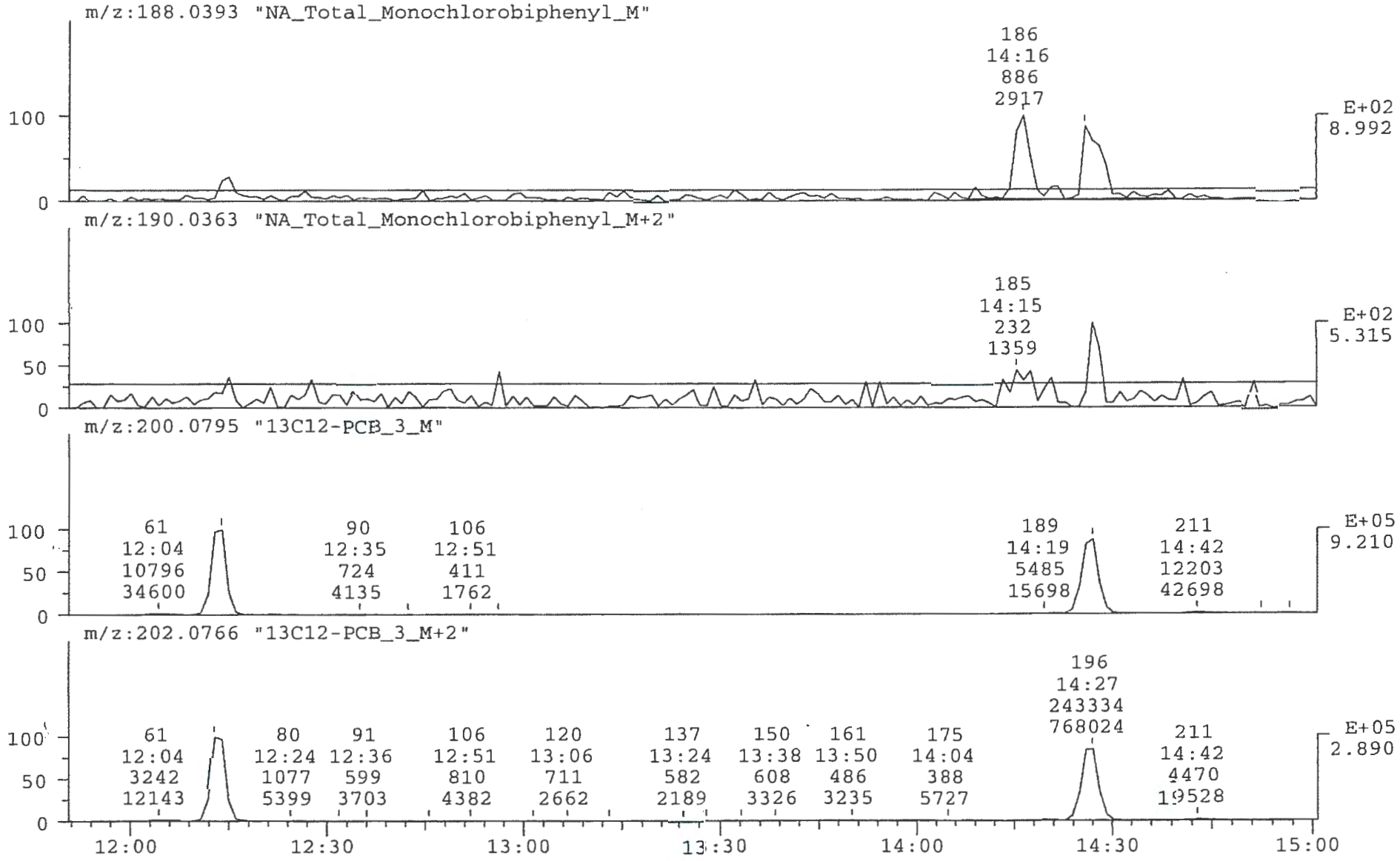
Int DCG 3-17-07
calc DCG 3-19-07
QC 15% 3/19/07

CHRO: a07030721 07-Mar-07 Elapse: 56:09 2553
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2 > 2602 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



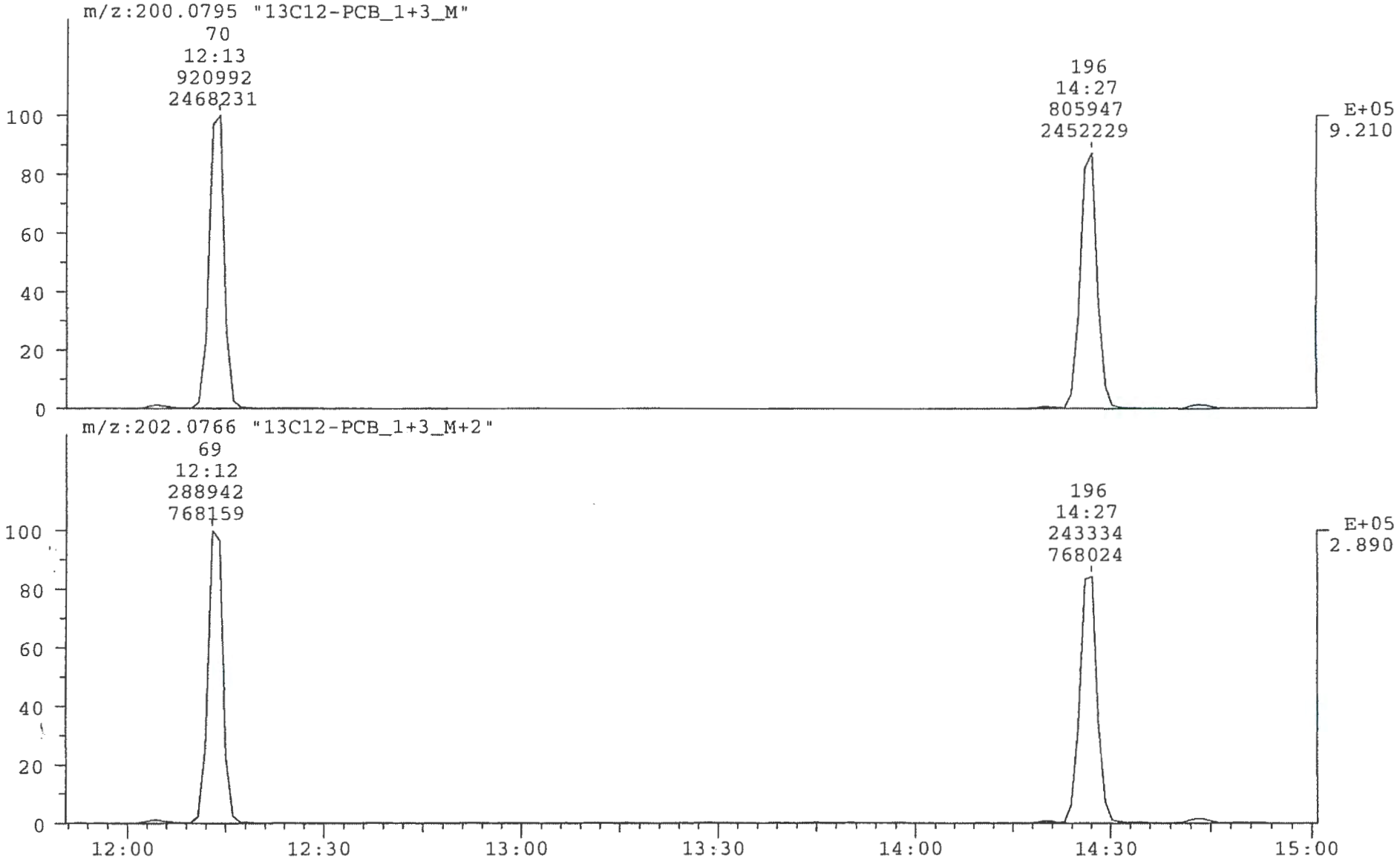
2052

```
CHRO:  a07030721                              07-Mar-07   Elapse:  13:25.7      138
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  18:05:25    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   48 > 228            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

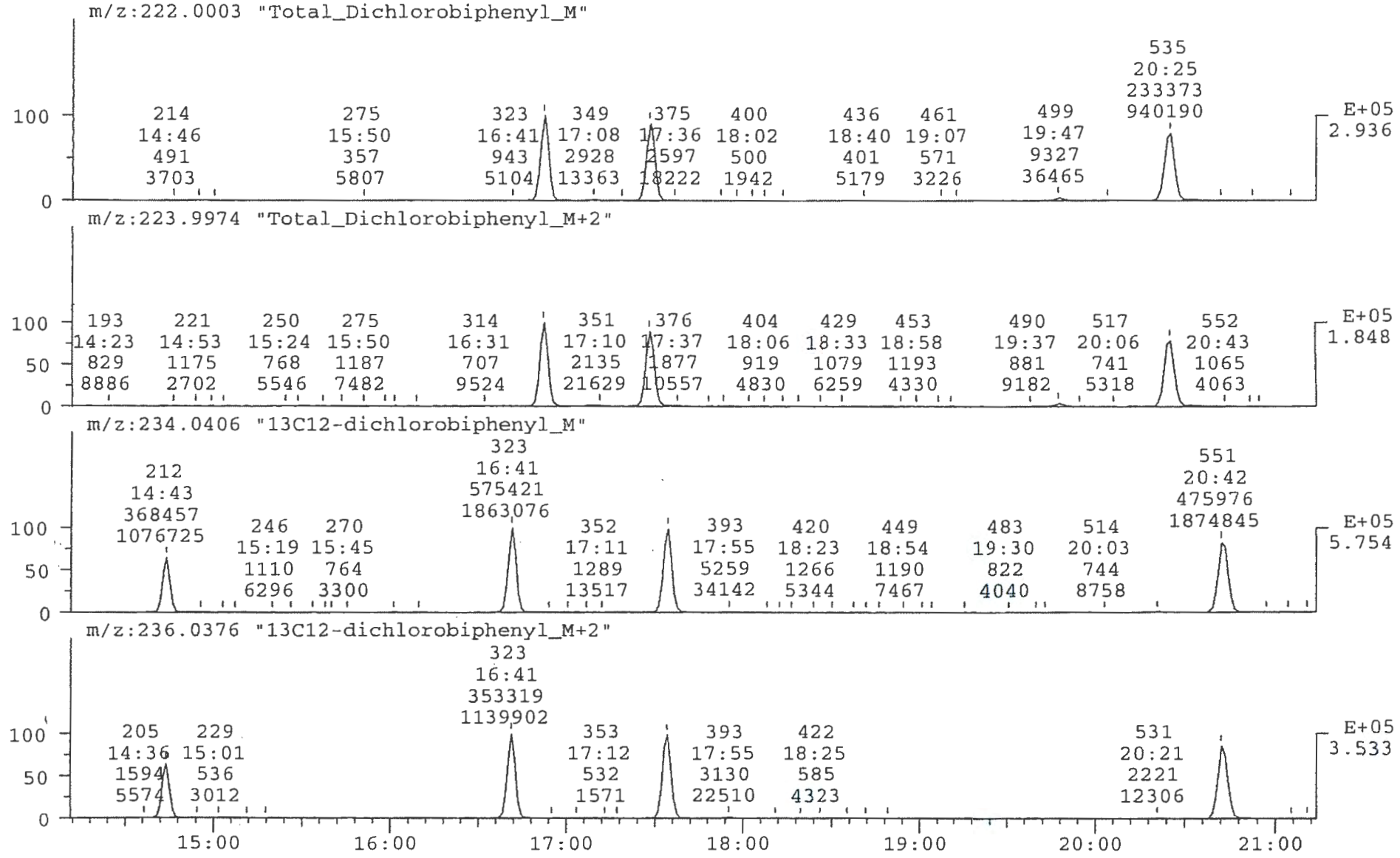


2053

```
CHRO:  a07030721                                07-Mar-07   Elapse:  13:25.7      138
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

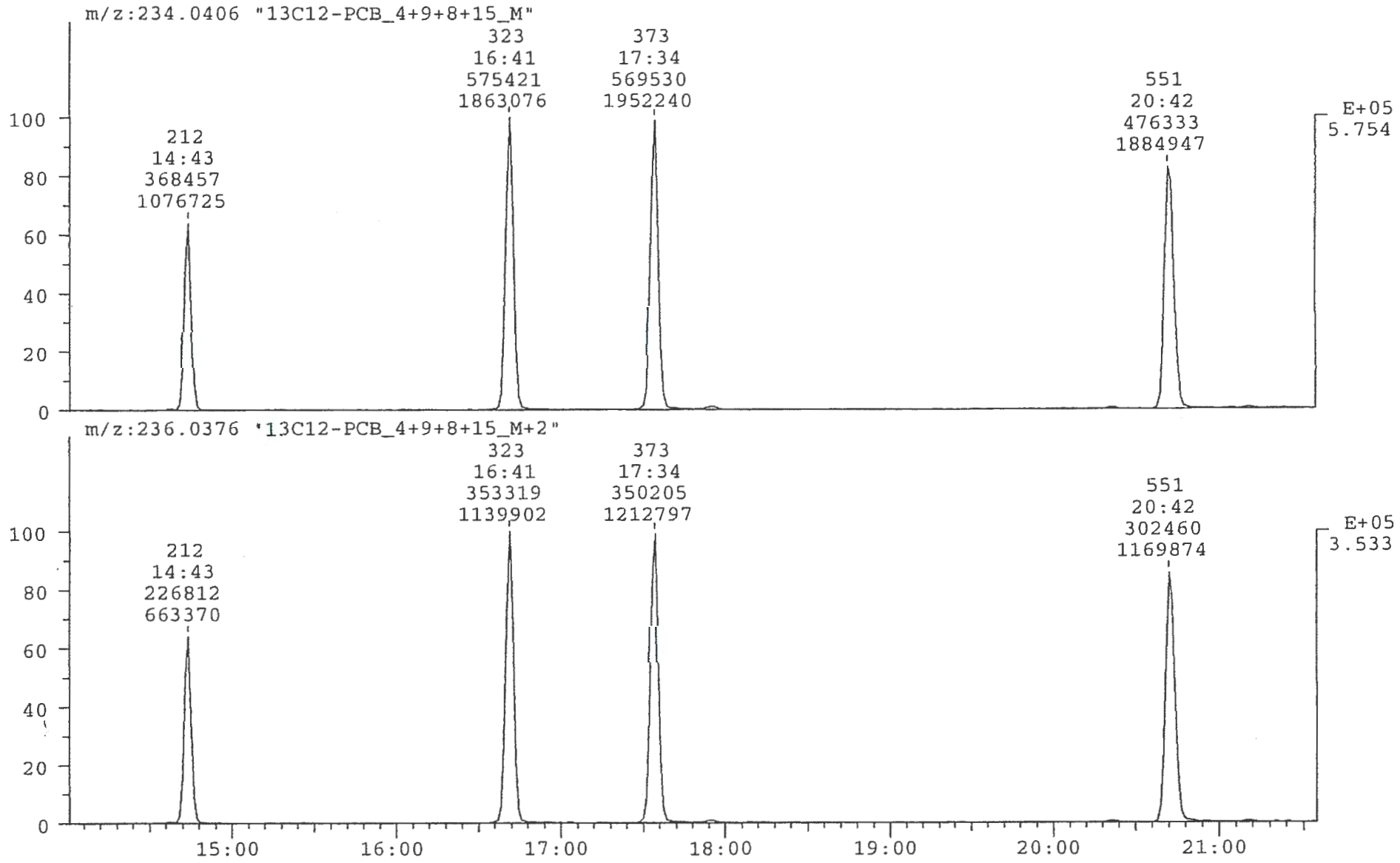


CHRO: a07030721 07-Mar-07 Elapse: 17:42.5 381
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 181 > 581 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

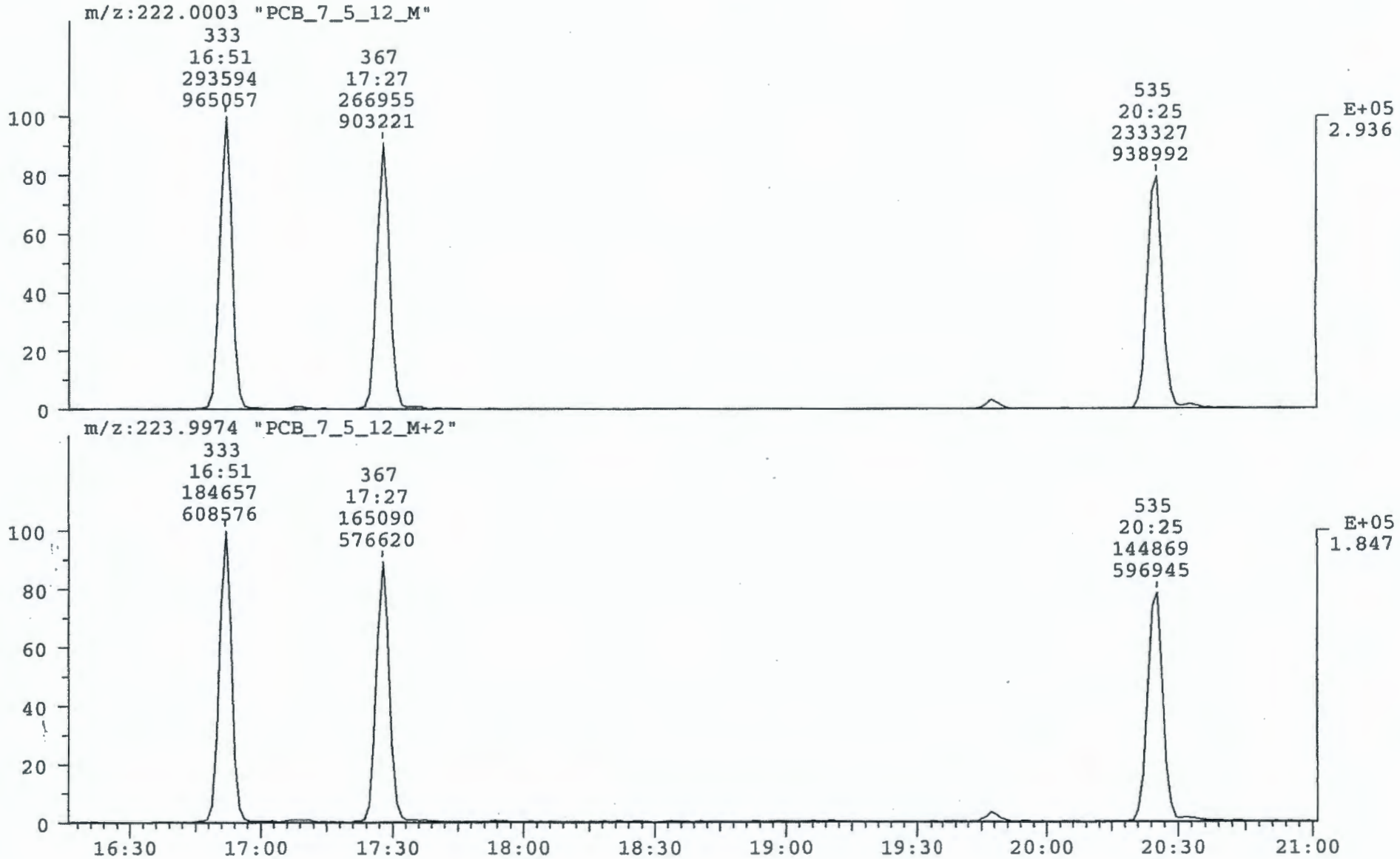


2055

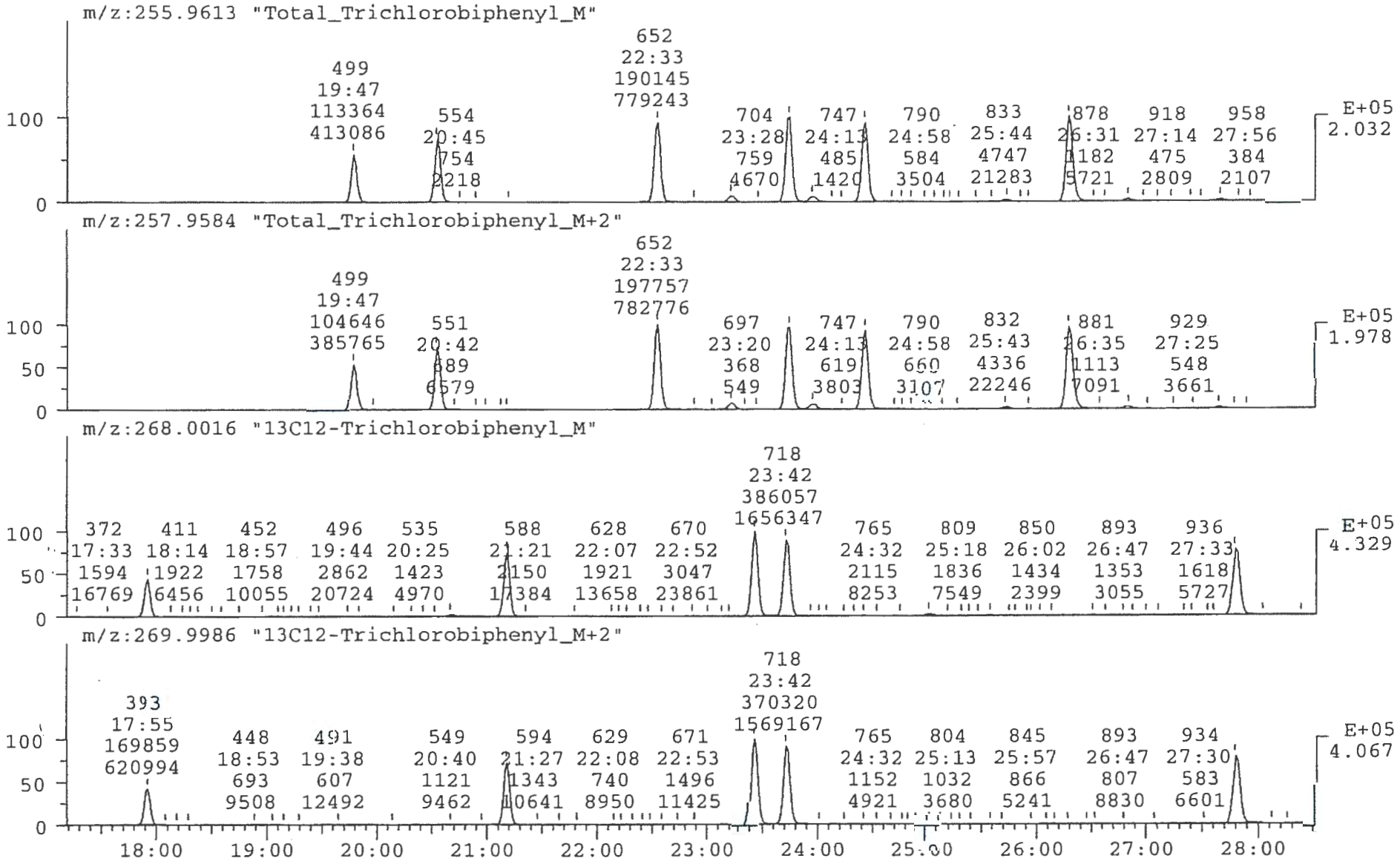
CHRO: a07030721 07-Mar-07 Elapse: 17:42.5 381
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 171 > 601 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030721                                07-Mar-07   Elapse:  18:38.5      434
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   299 > 569             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

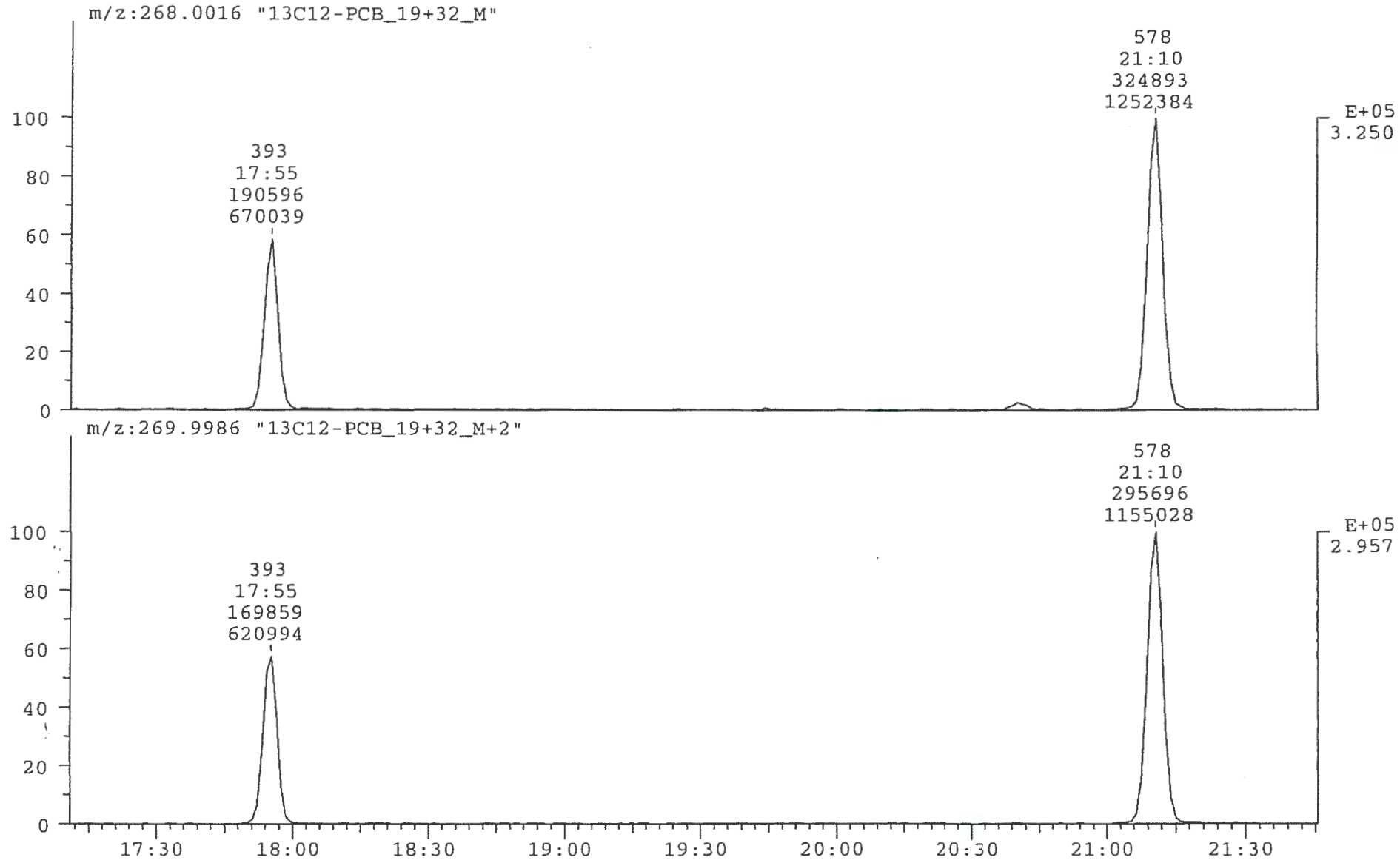


CHRO: a07030721 07-Mar-07 Elapse: 22:53.2 671
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

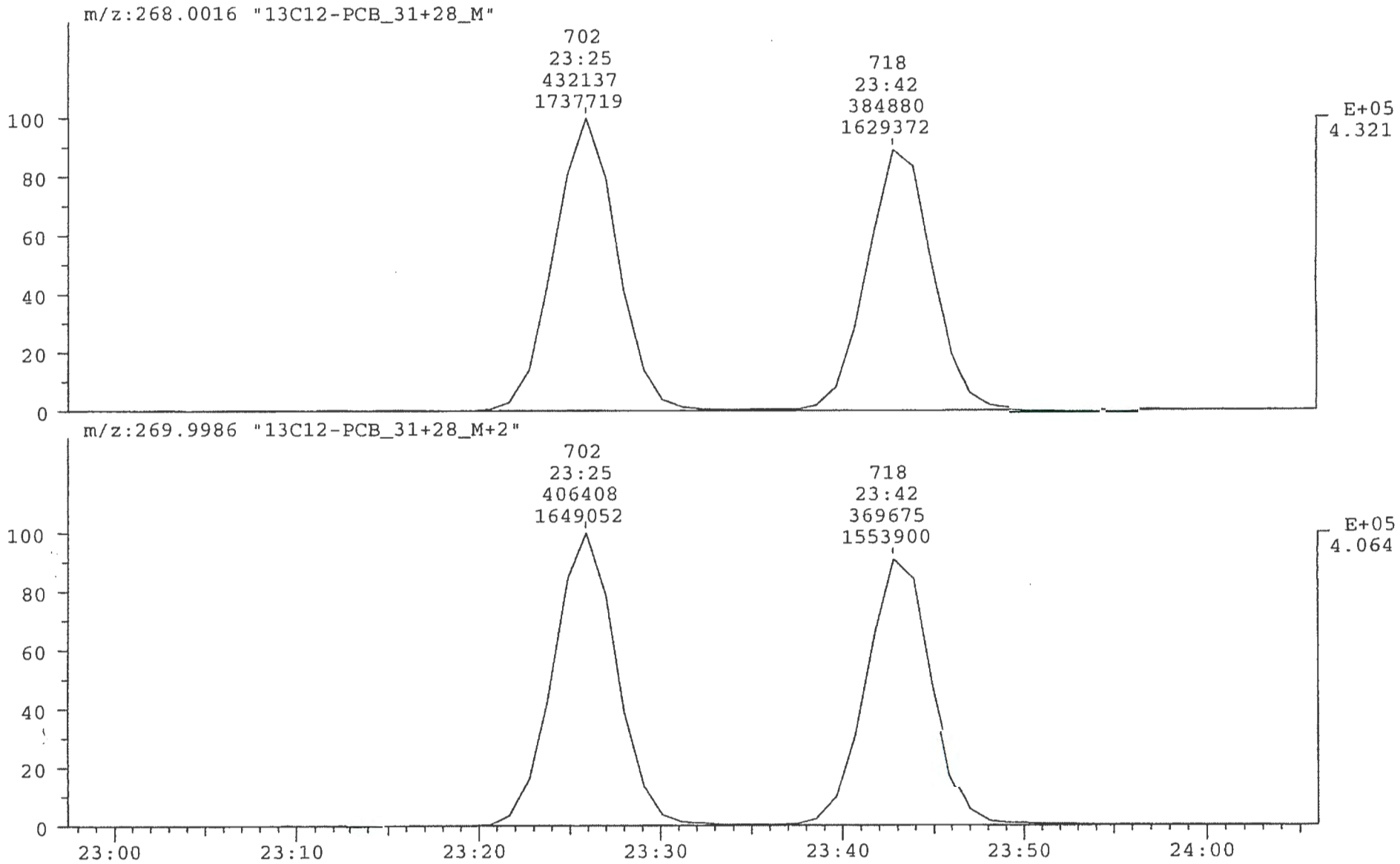


2058

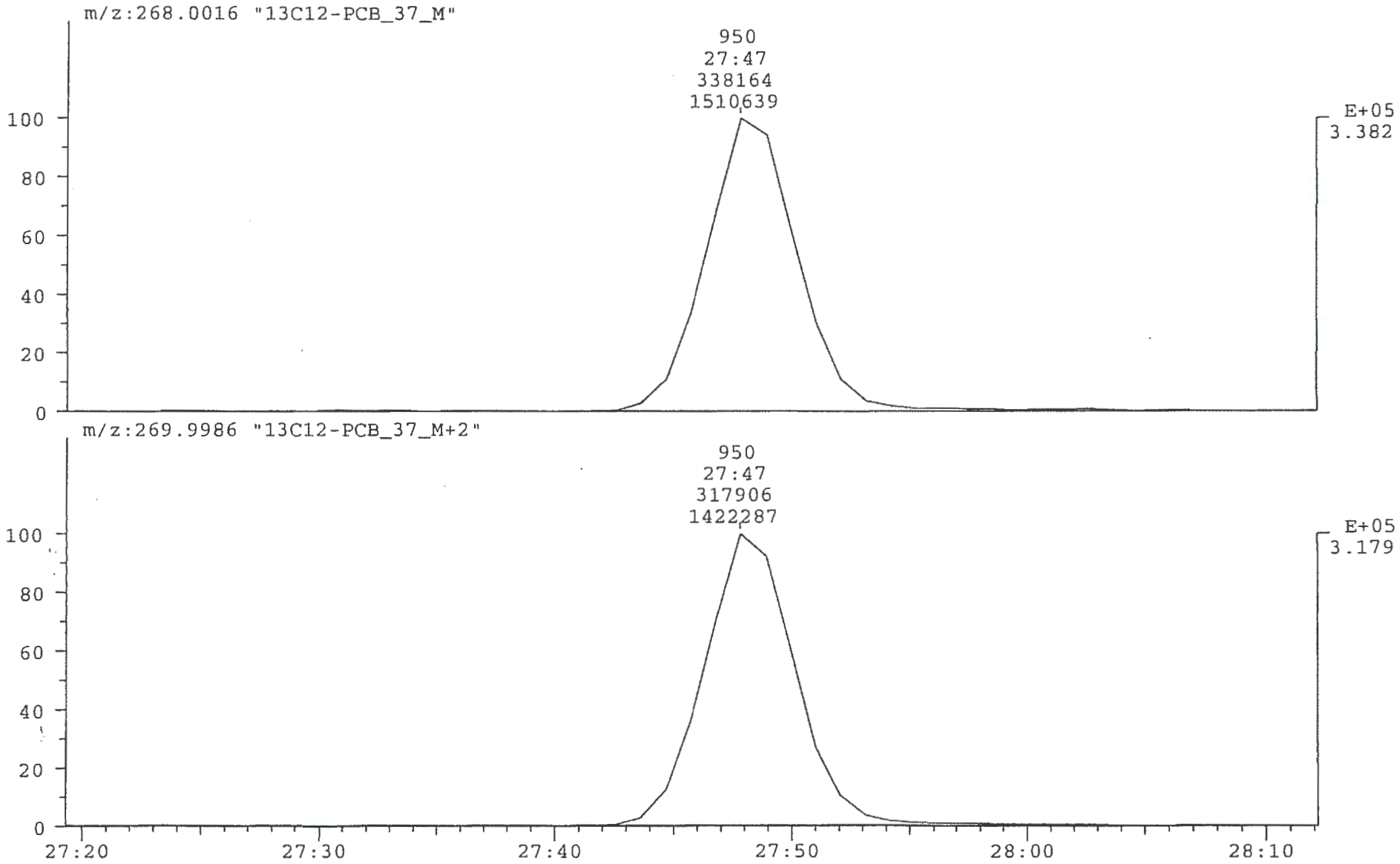
```
CHRO:  a07030721                                07-Mar-07   Elapse:  19:17.6      471
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   351 > 611             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



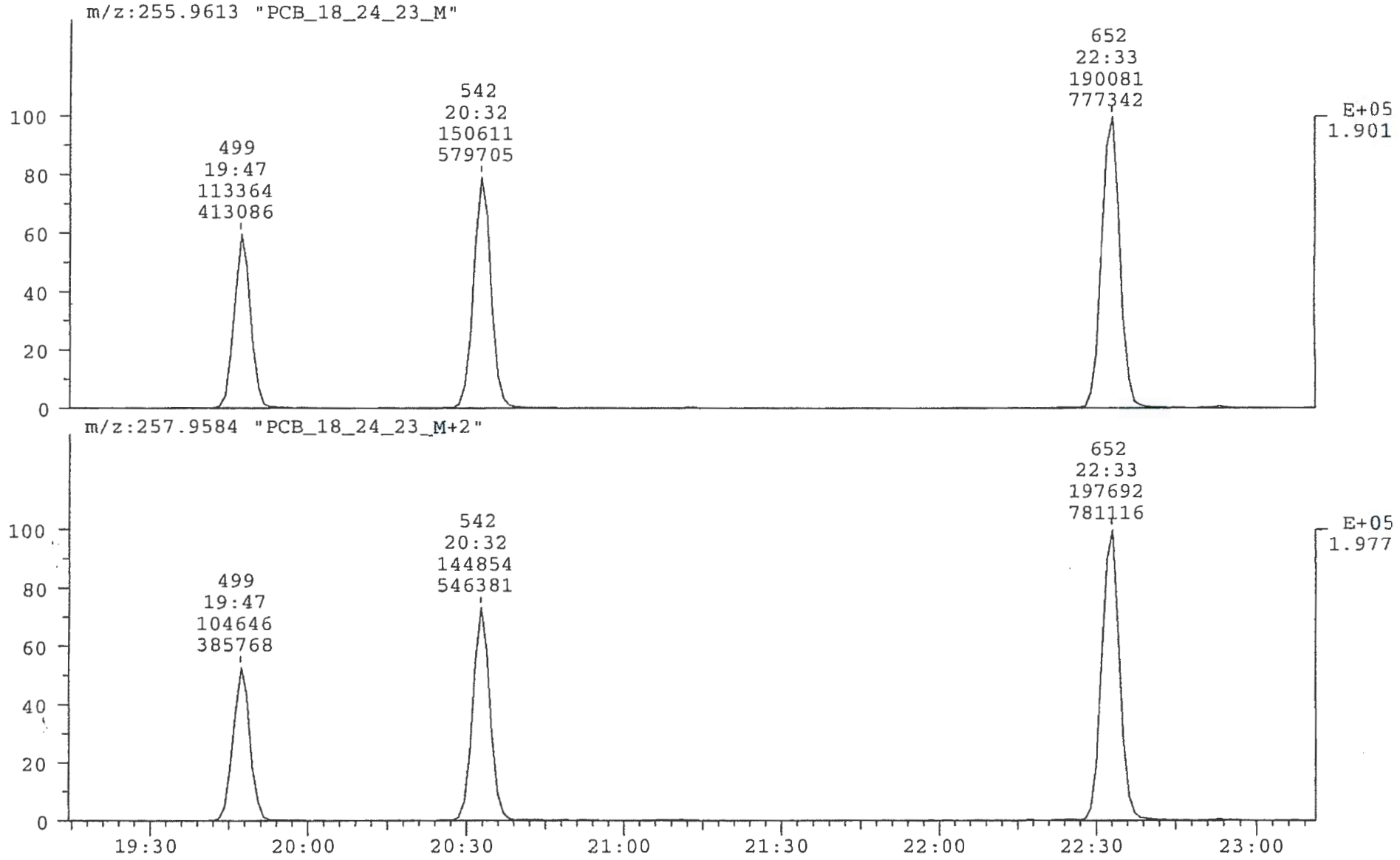
CHRO: a07030721 07-Mar-07 Elapse: 23:23.7 700
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 675 > 740 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030721                                07-Mar-07   Elapse:  27:45.7      948
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   923 > 973             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

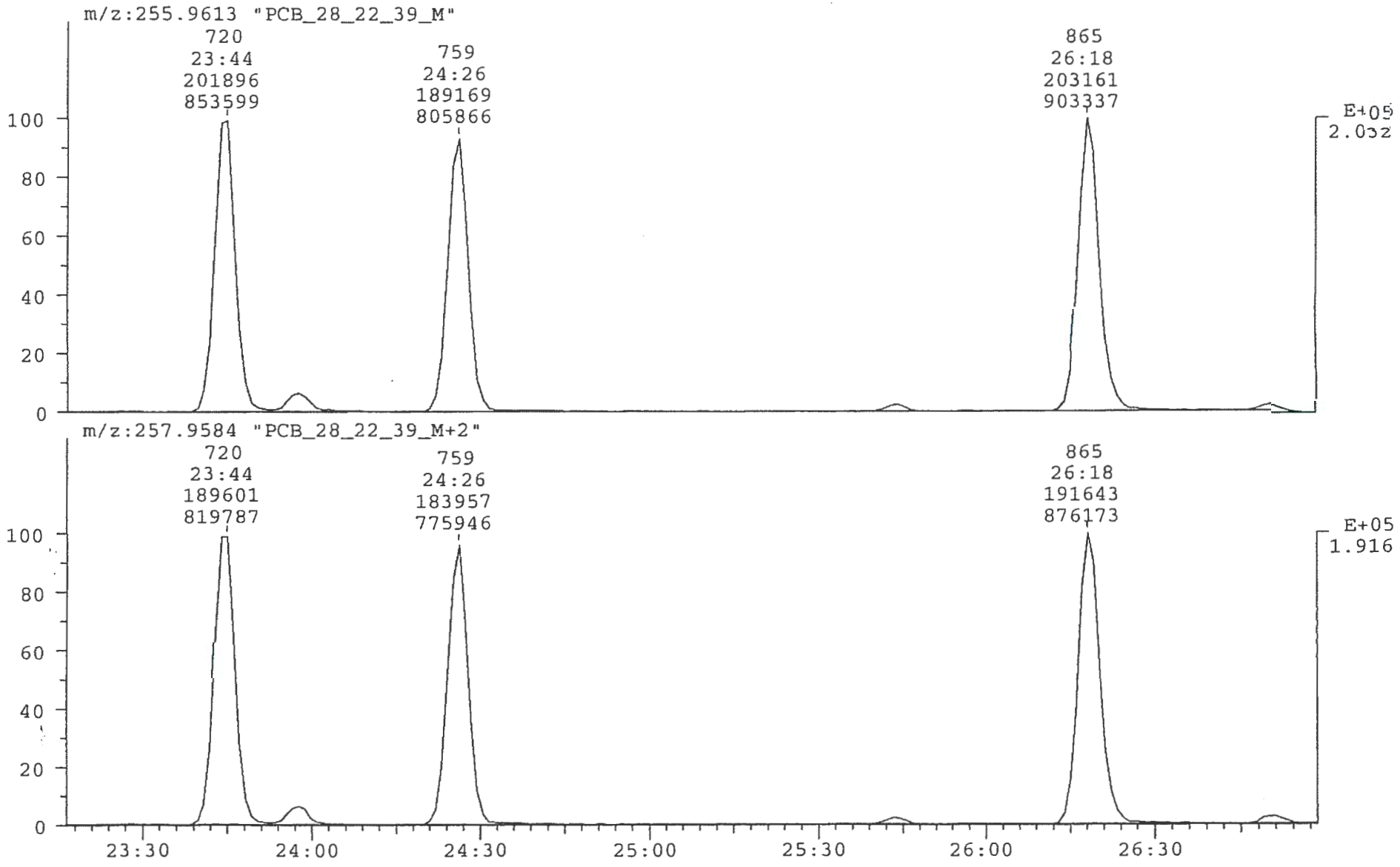


CHRO: a07030721 07-Mar-07 Elapse: 21:10.6 578
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 468 > 688 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



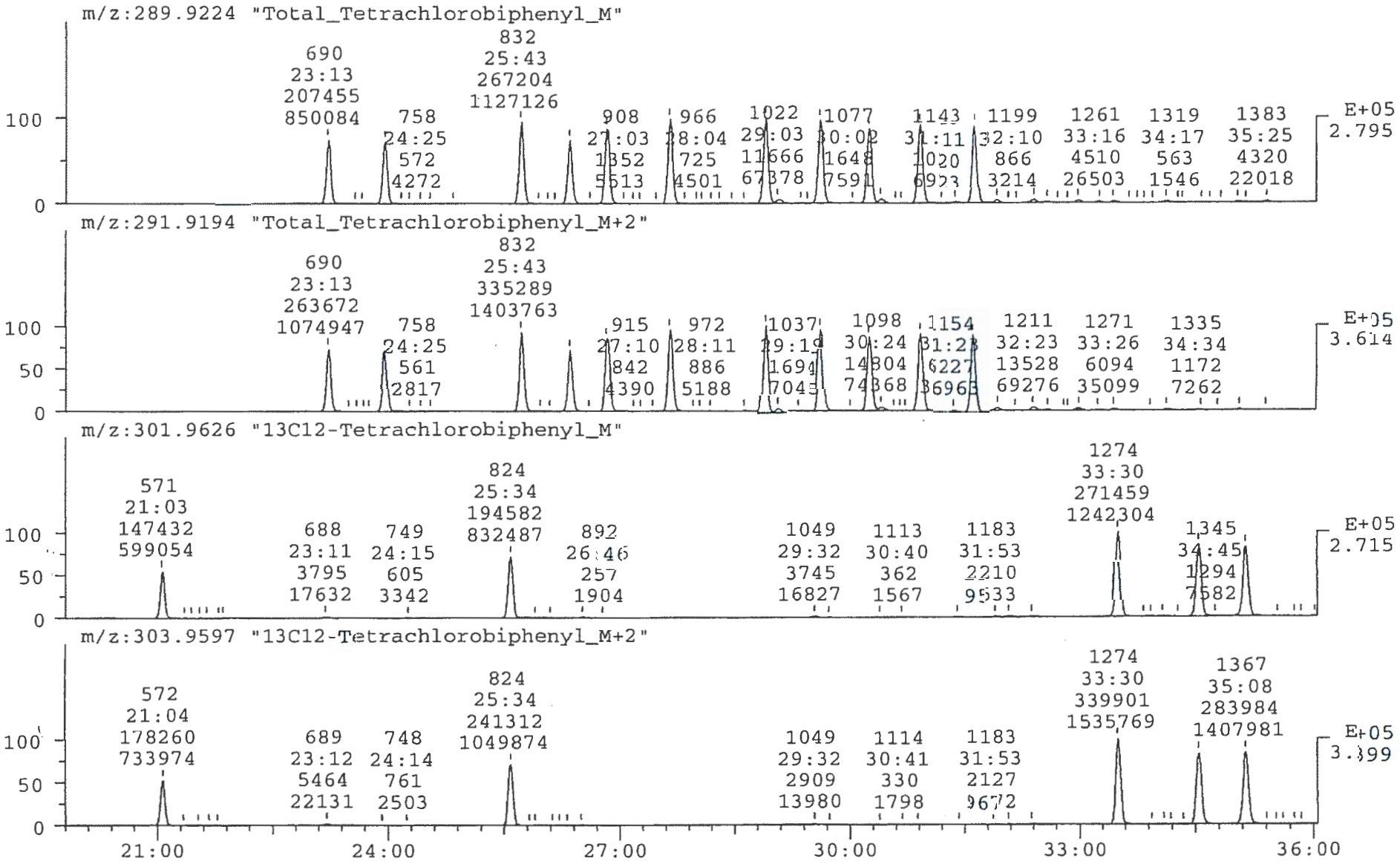
2062

CHRO: a07030721 07-Mar-07 Elapse: 25:02.0 793
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 693 > 903 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



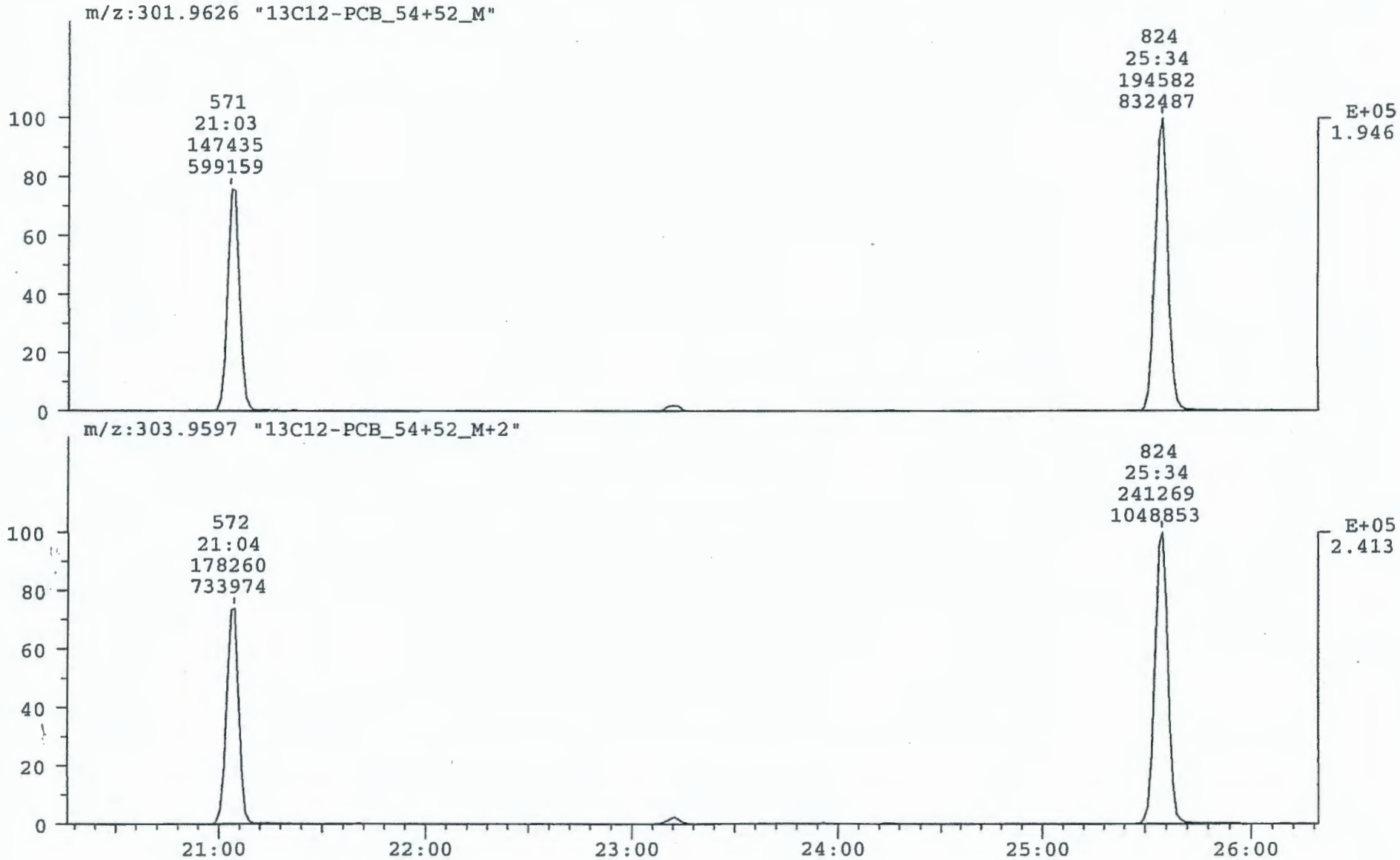
2063

CHRO: a07030721 07-Mar-07 Elapse: 27:55.2 957
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

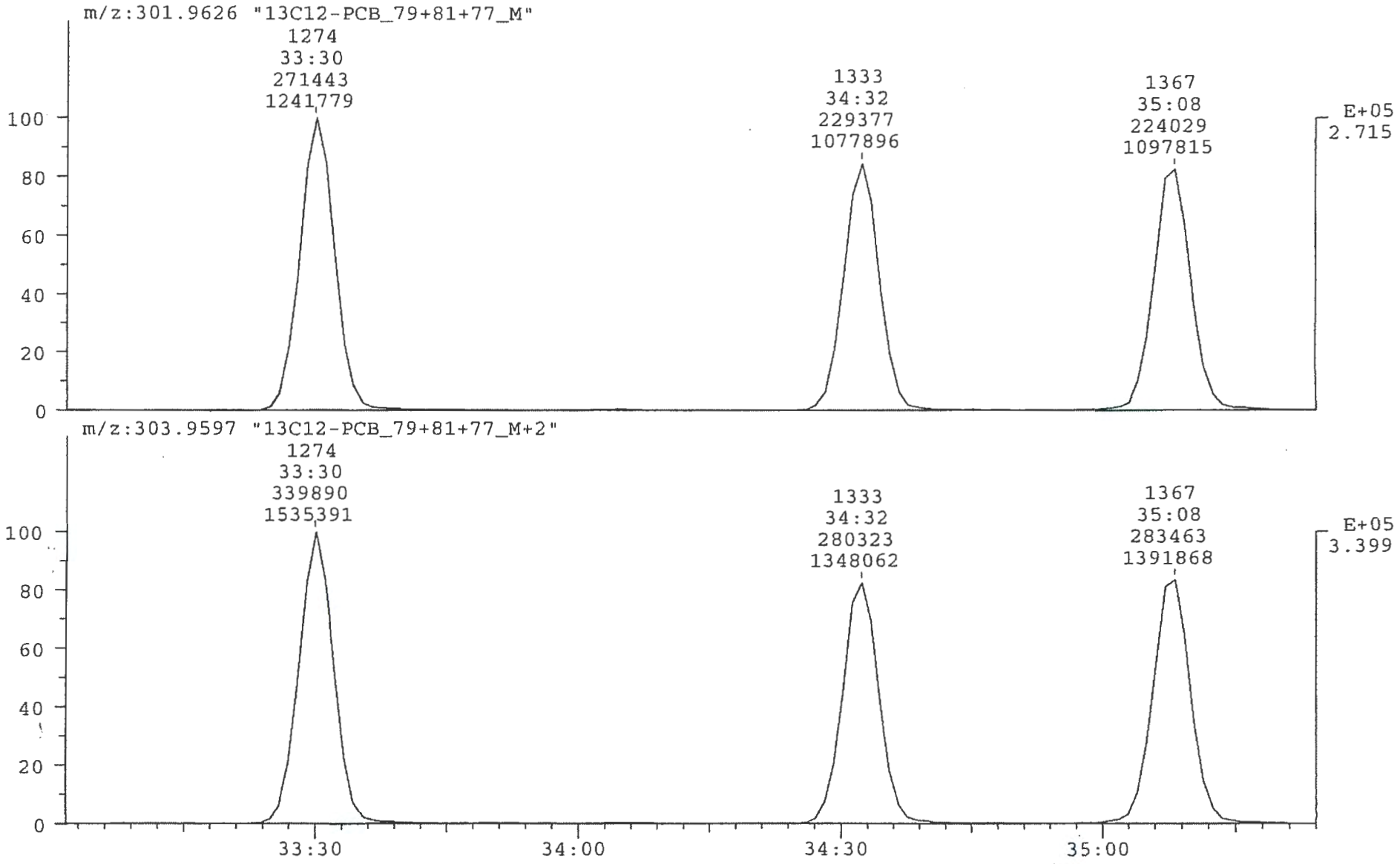


2064

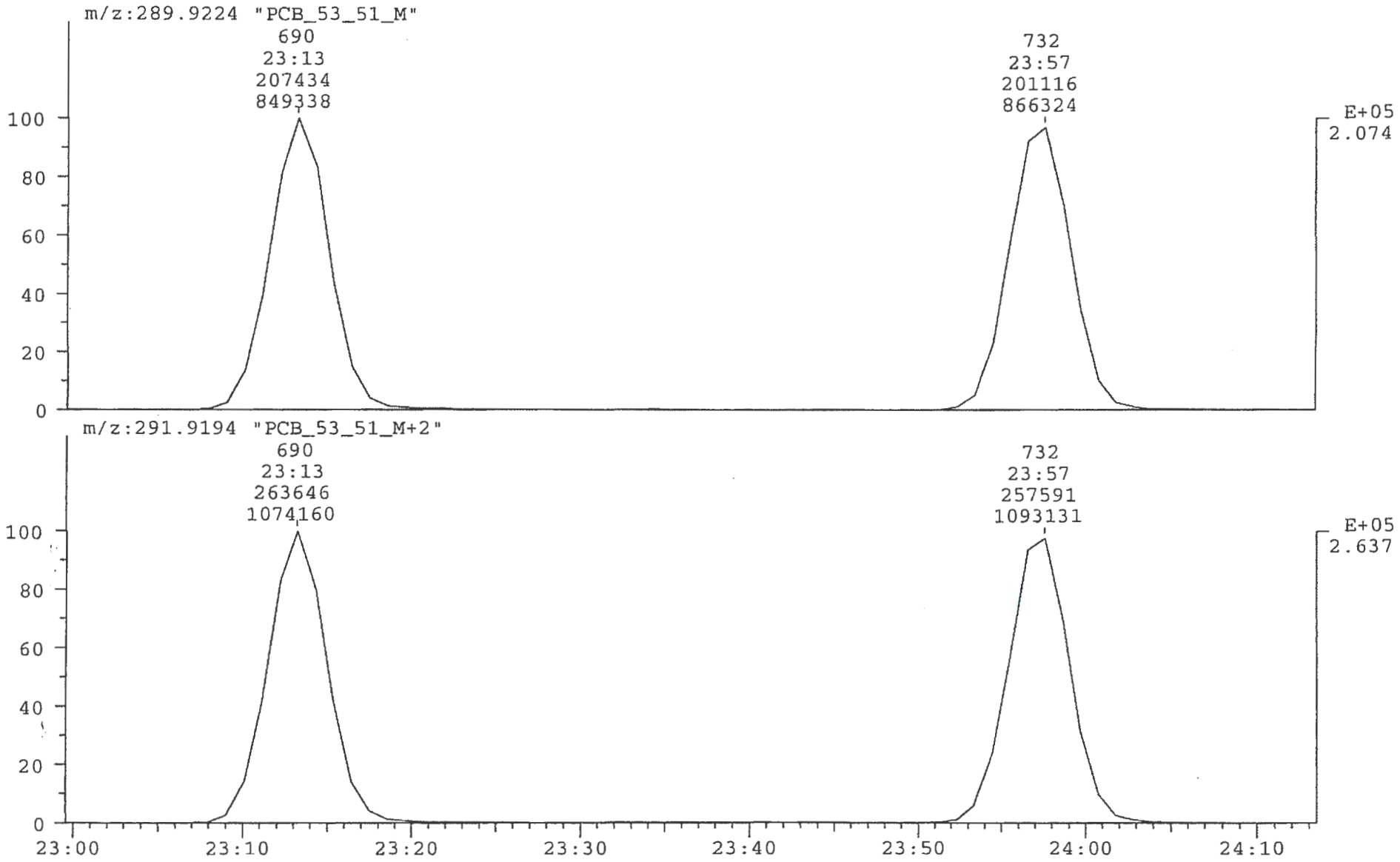
```
CHRO:  a07030721                                07-Mar-07   Elapse:  23:19.5      696
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   526 > 866             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



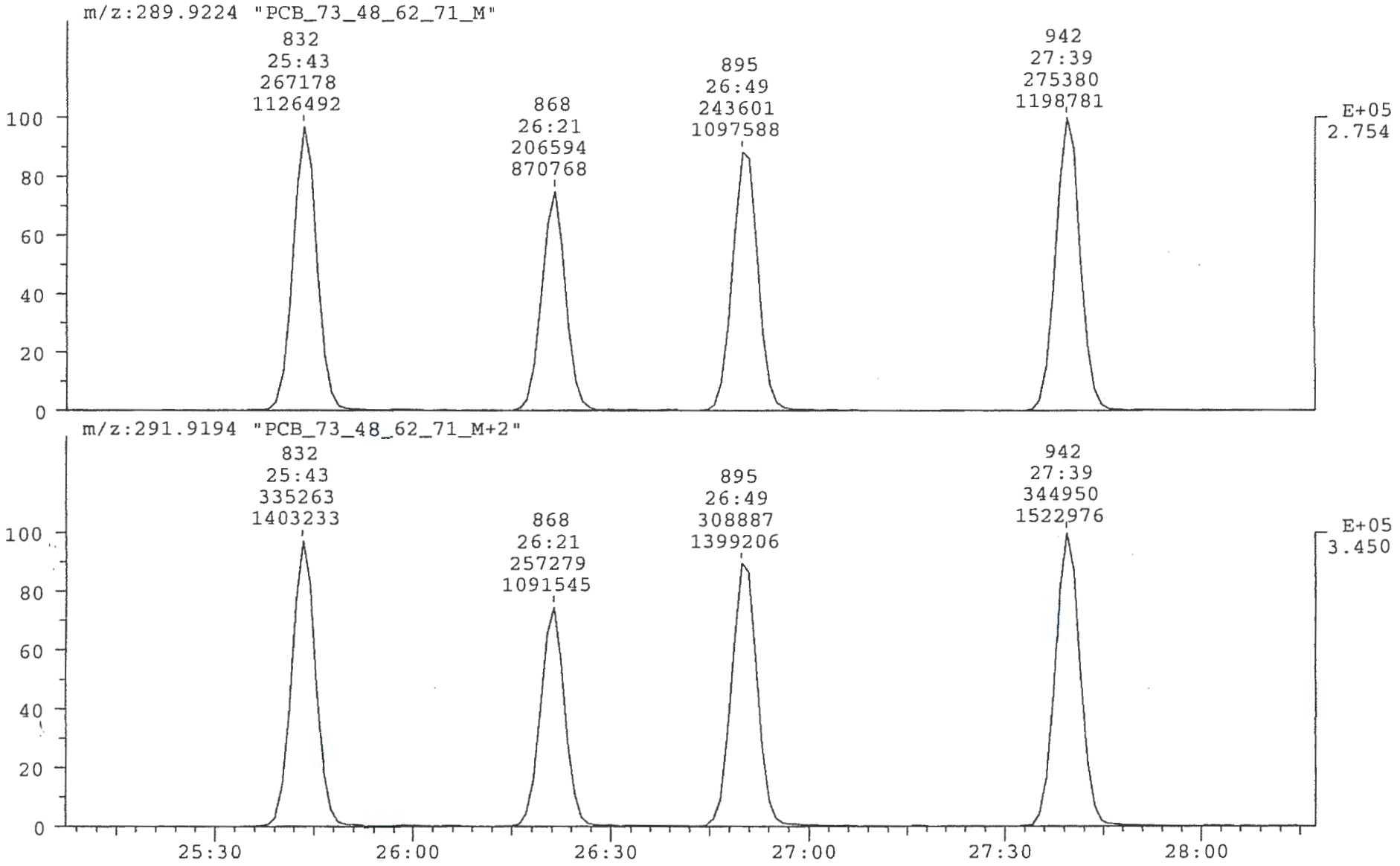
```
CHRO:  a07030721                                07-Mar-07   Elapse:  34:15      1317
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1247 > 1382           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



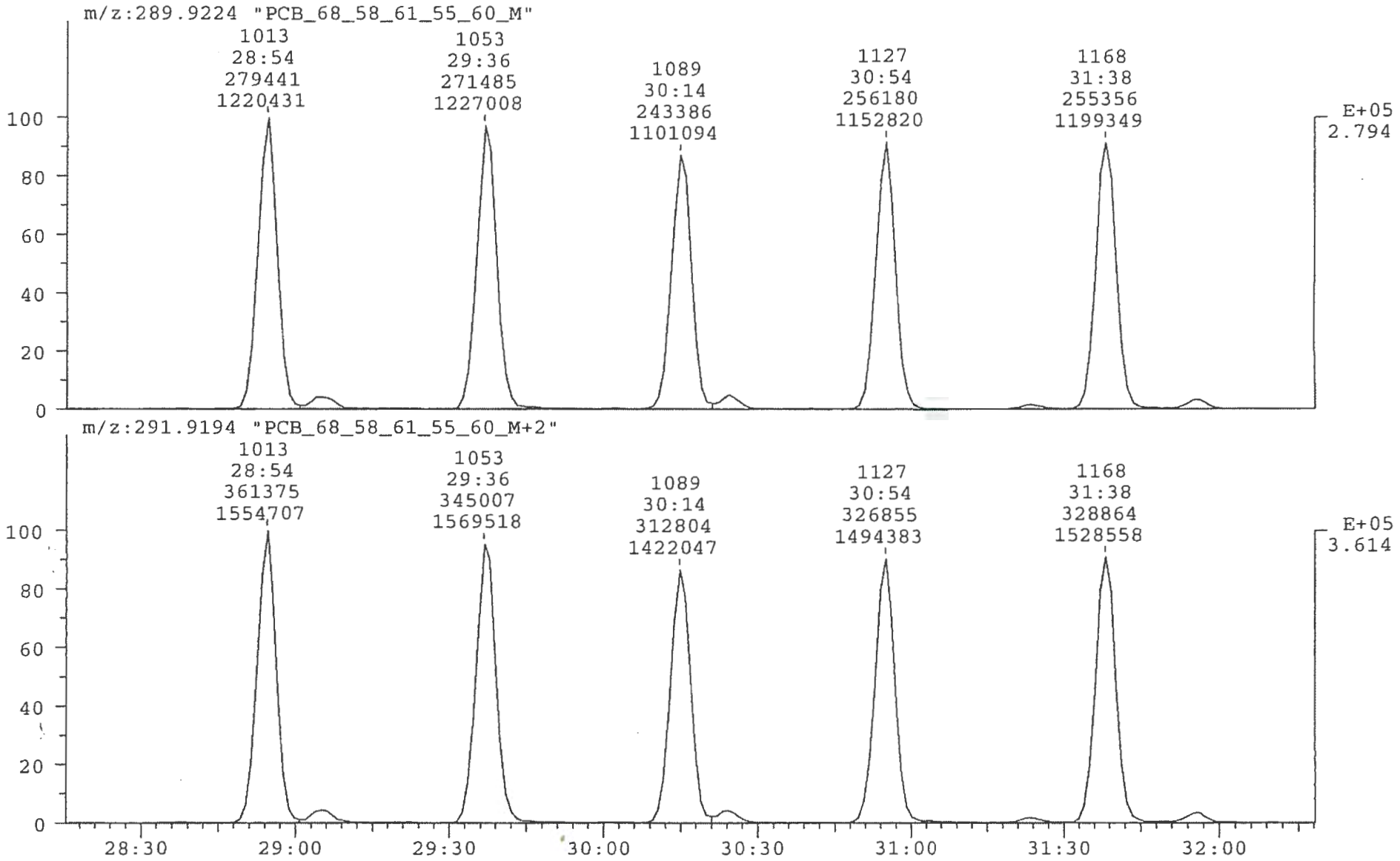
```
CHRO:  a07030721                              07-Mar-07   Elapse:  23:41.7      717
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  18:05:25    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   677 > 747           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030721                                07-Mar-07   Elapse:  26:42.3      888
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   798 > 978             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

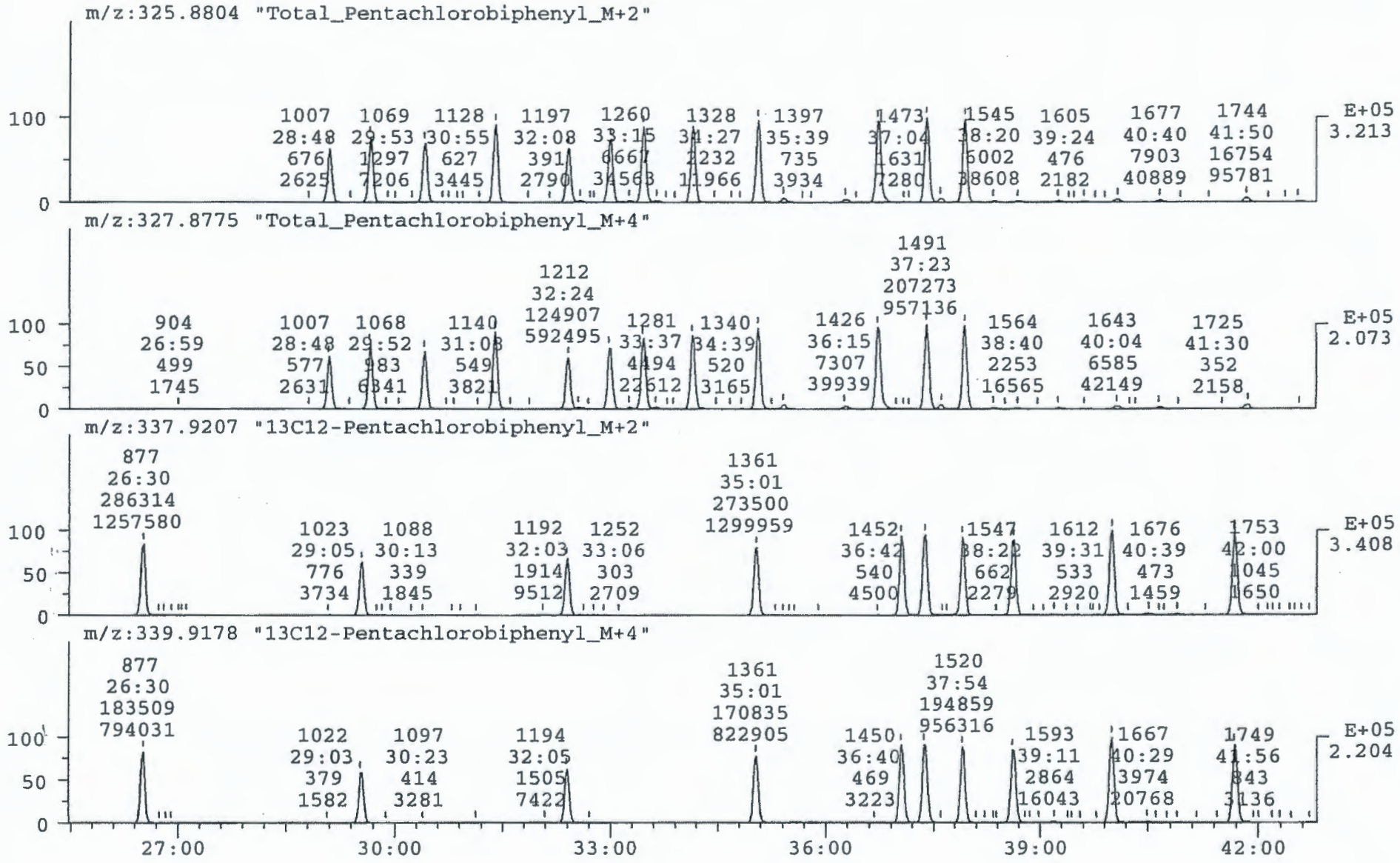


```
CHRO:  a07030721                                07-Mar-07   Elapse:  30:16      1091
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   976 > 1206            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



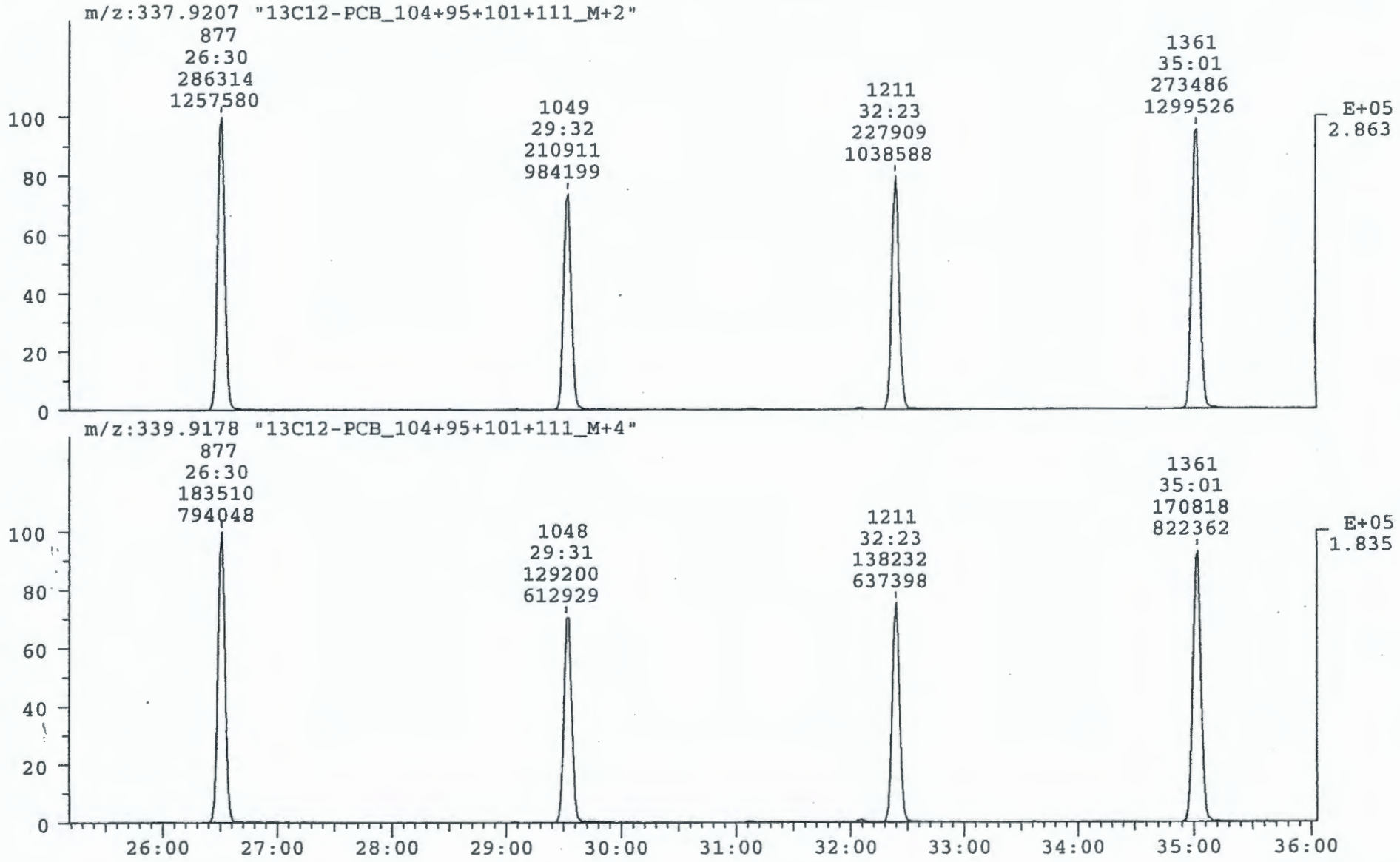
2069

CHRO: a07030721 07-Mar-07 Elapse: 34:08 1310
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 818 > 1798 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

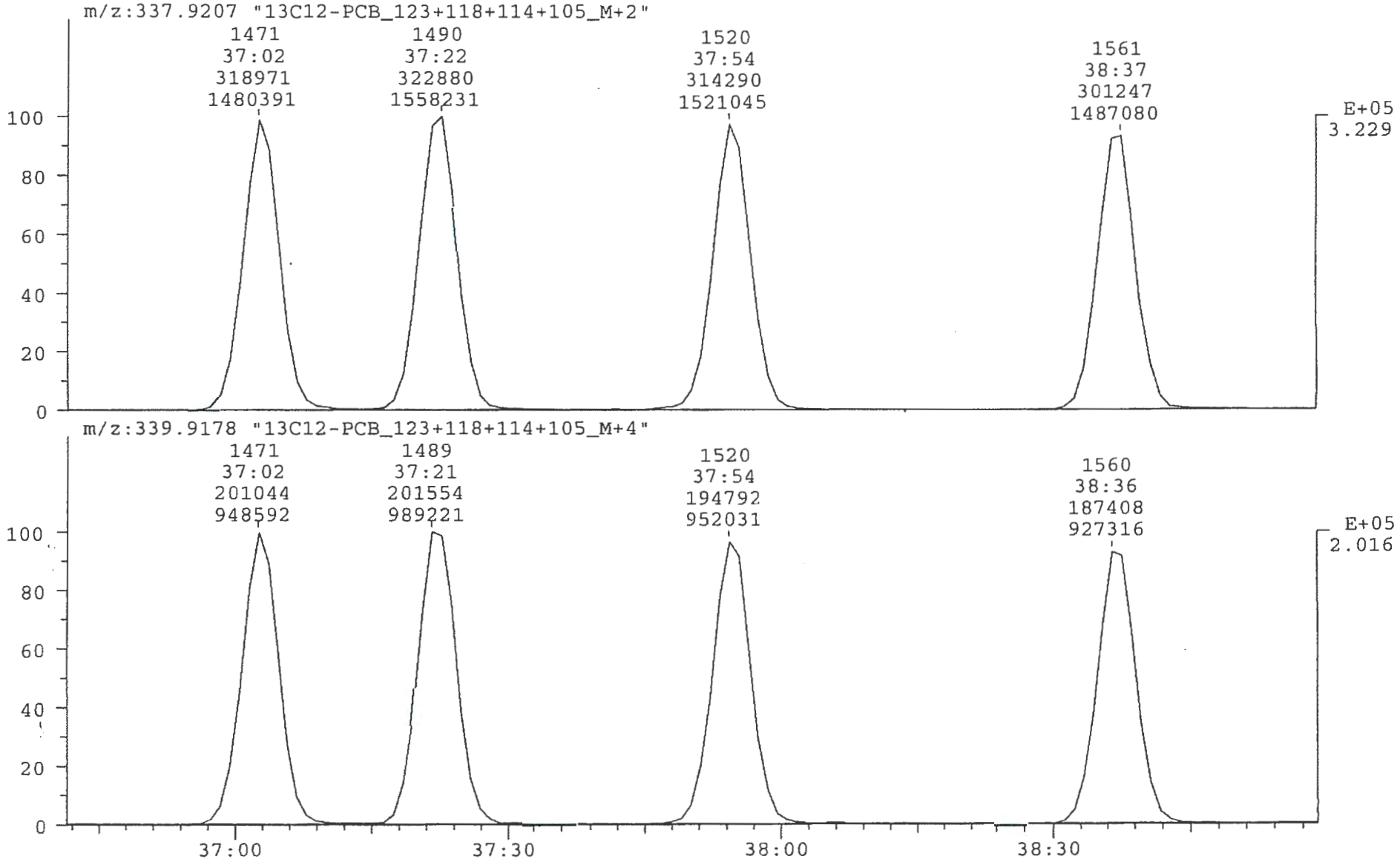


2070

CHRO: a07030721 07-Mar-07 Elapse: 30:36 1110
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 802 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

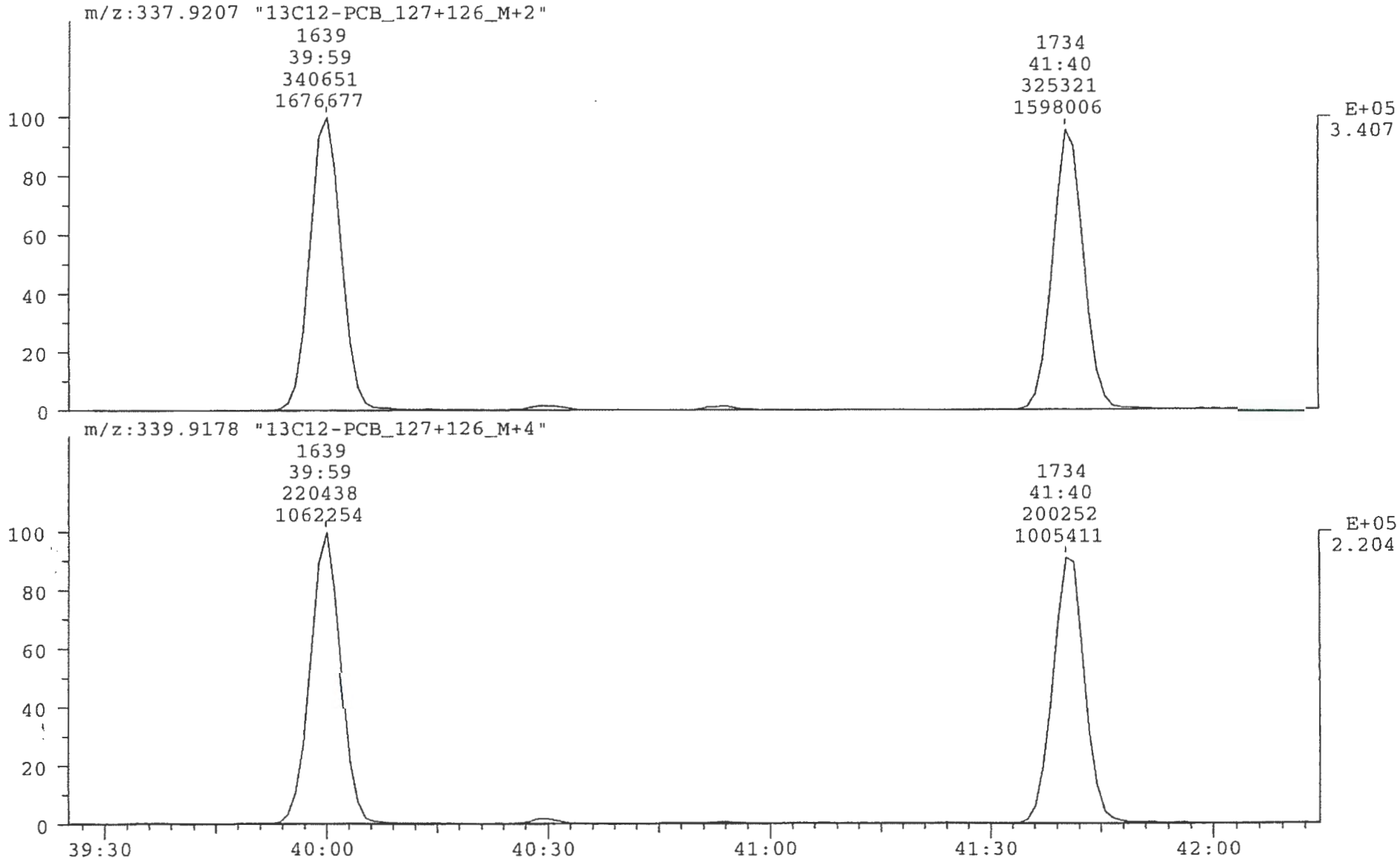


```
CHRO:  a07030721                                07-Mar-07   Elapse:  37:50       1516
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1451 > 1581           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

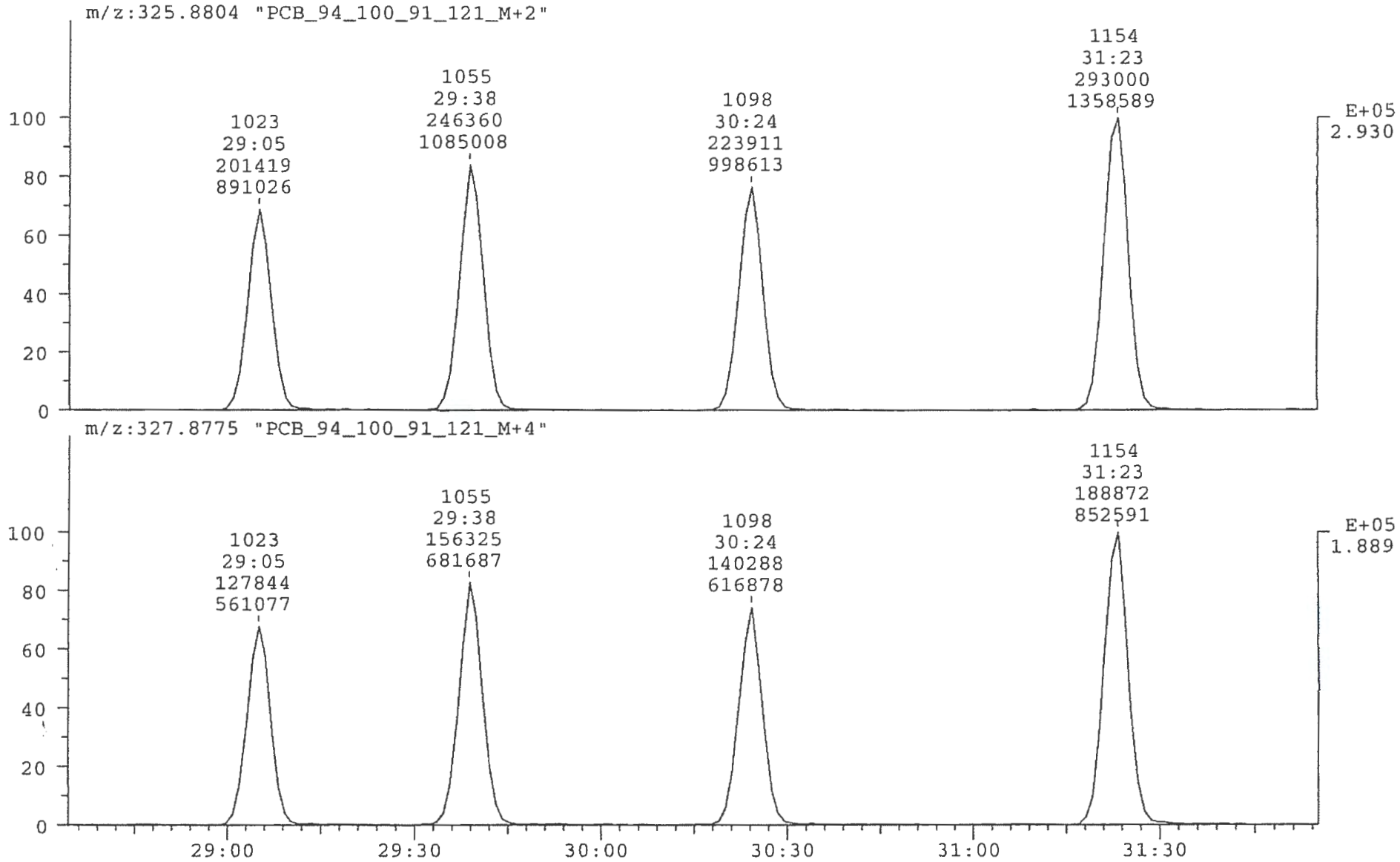


2072

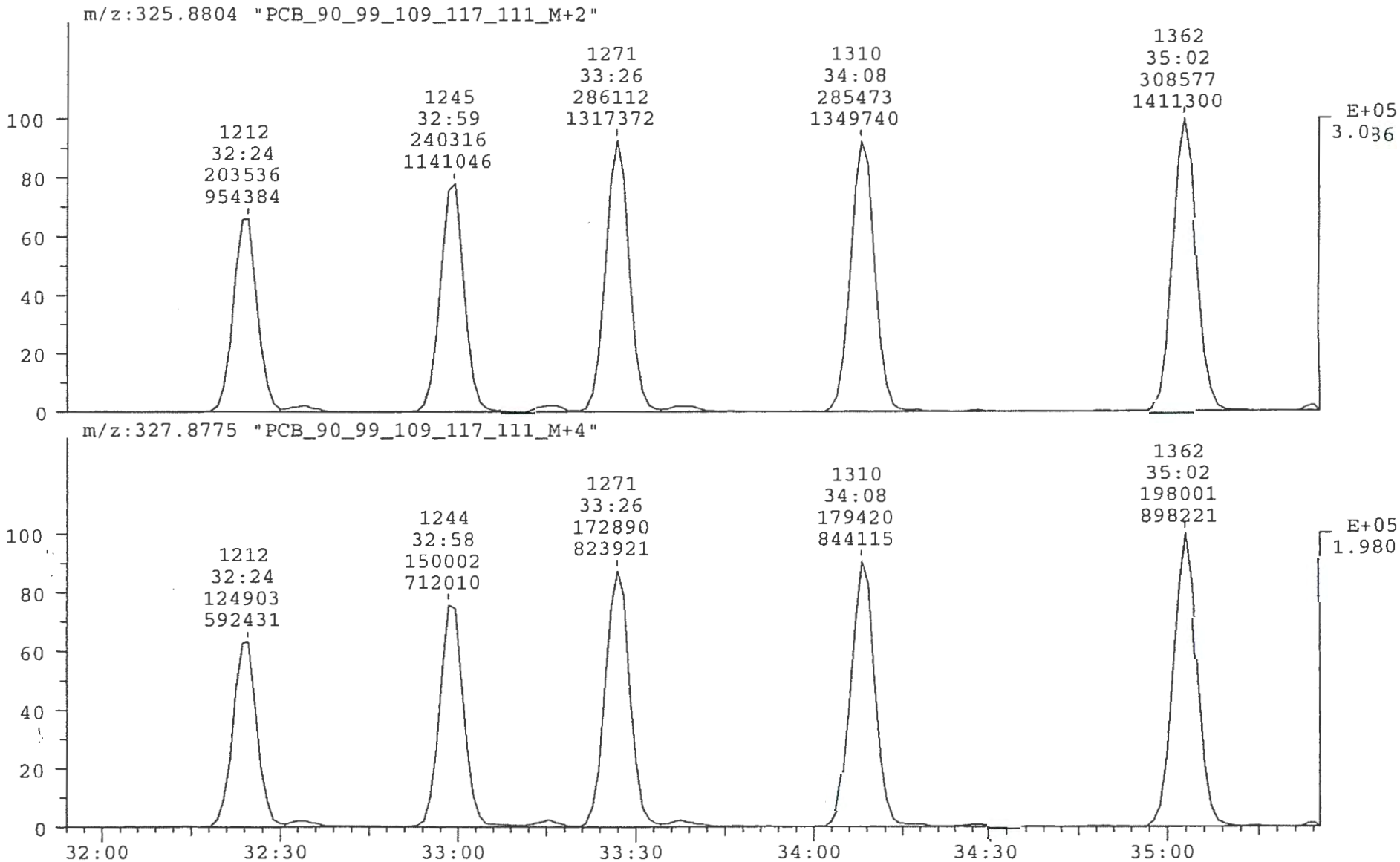
```
CHRO:  a07030721                                07-Mar-07   Elapse:  40:49      1686
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1606 > 1766           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030721                                07-Mar-07   Elapse:  30:14      1089
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   994 > 1184            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

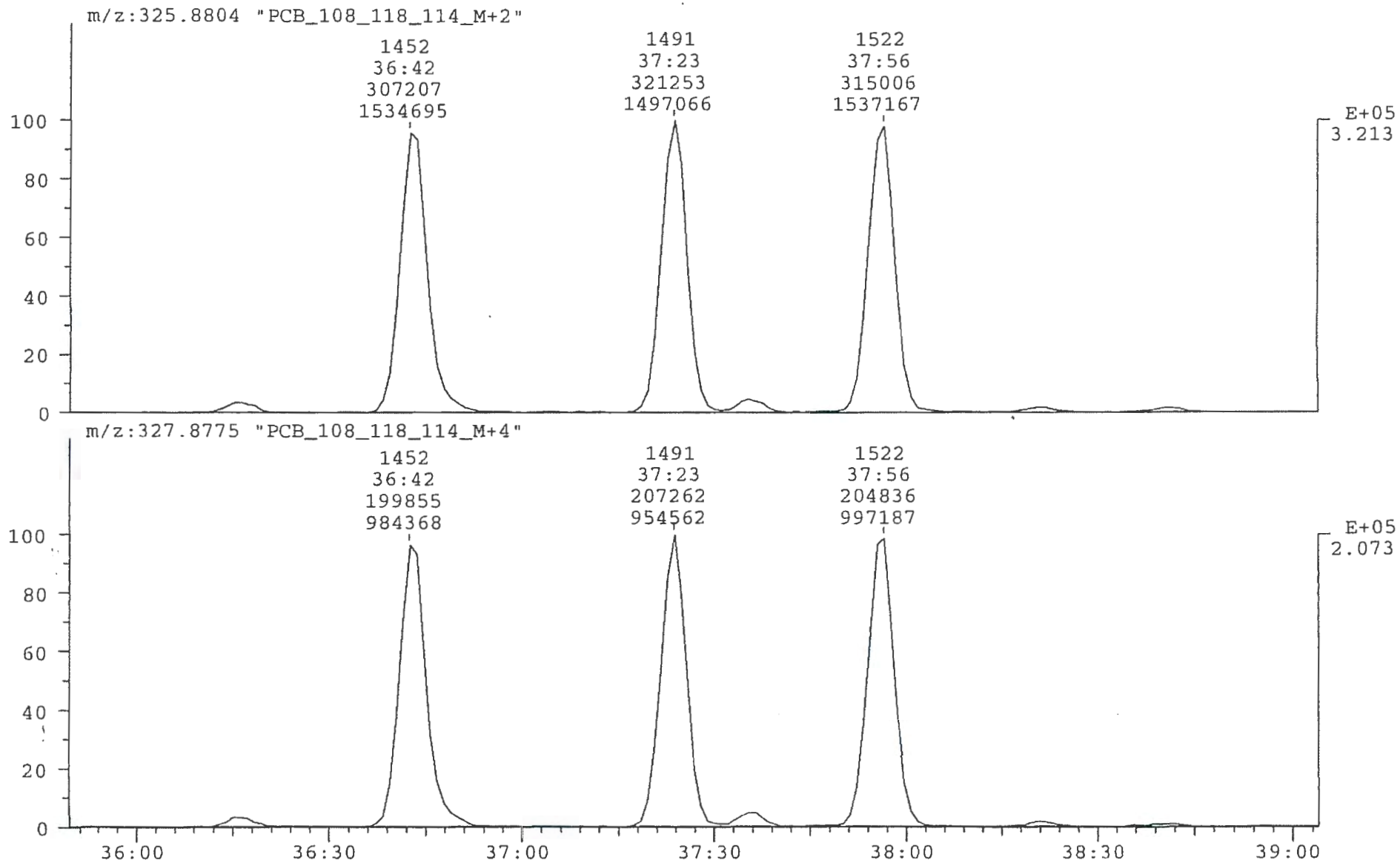


```
CHRO:  a07030721                                07-Mar-07   Elapse:  33:39      1283
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=mid/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1183 > 1383           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

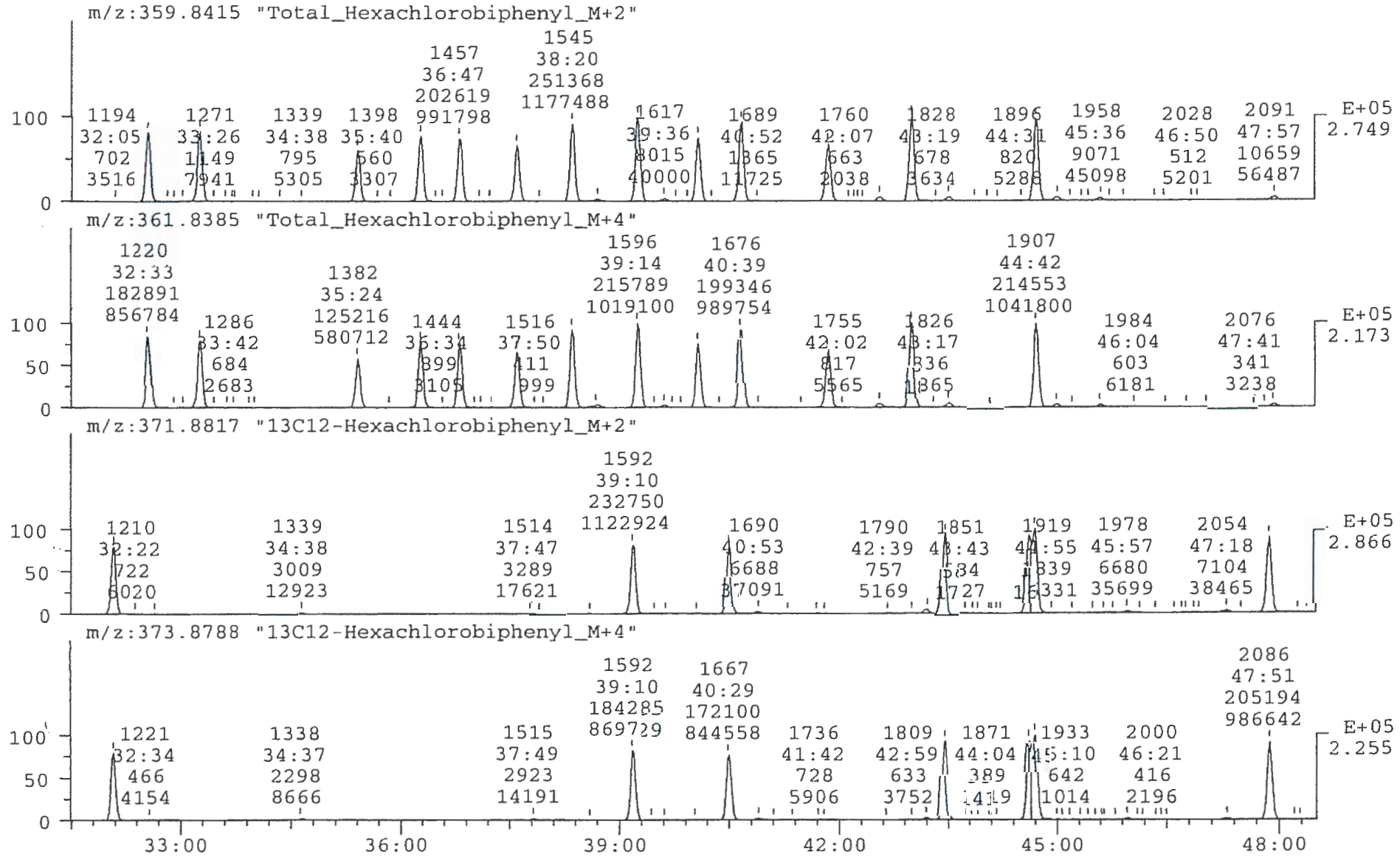


2075

```
CHRO:  a07030721                                07-Mar-07   Elapse:  37:28      1496
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1406 > 1586           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

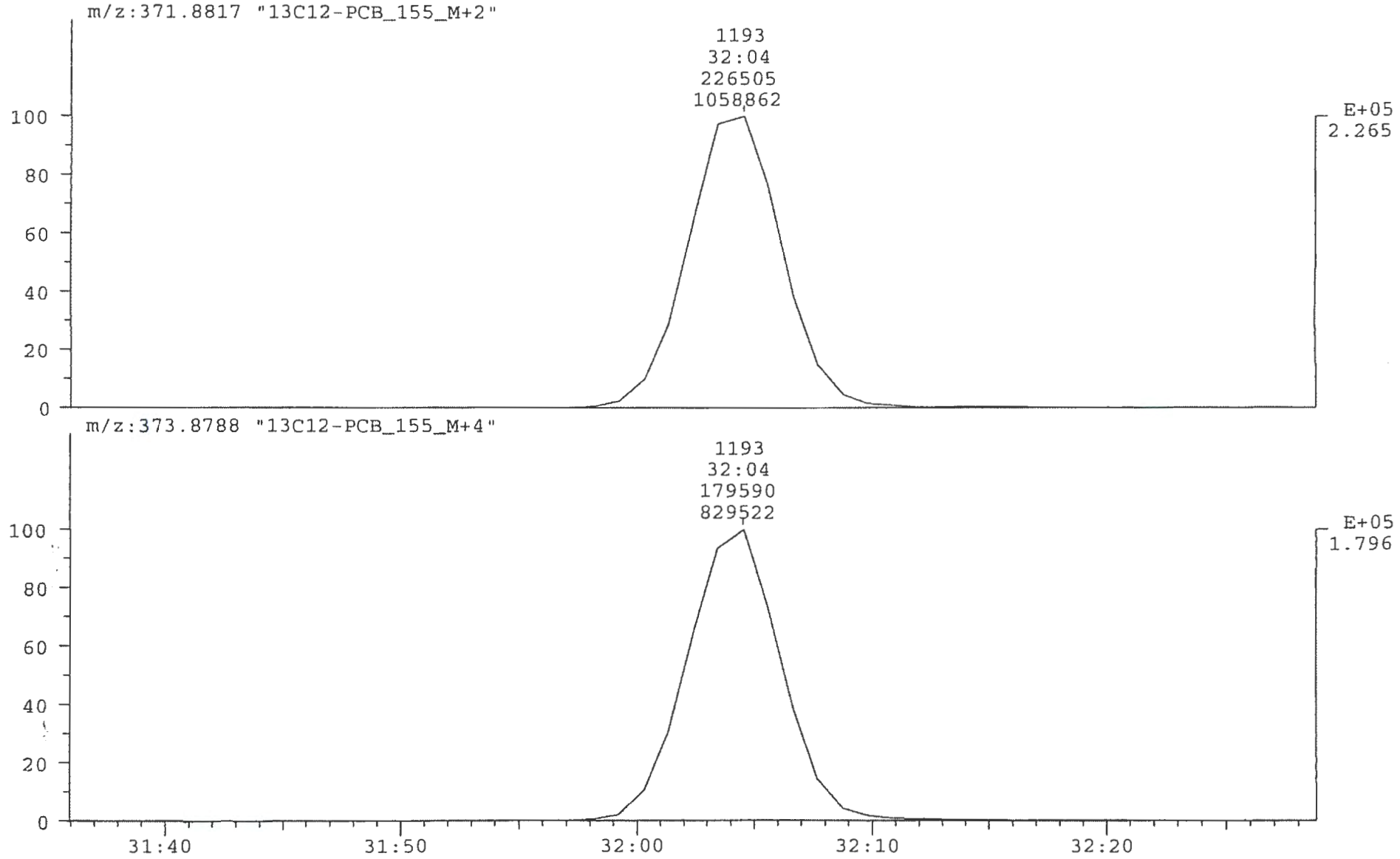


CHRO: a07030721 07-Mar-07 Elapse: 39:58 1638
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1159 > 2122 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



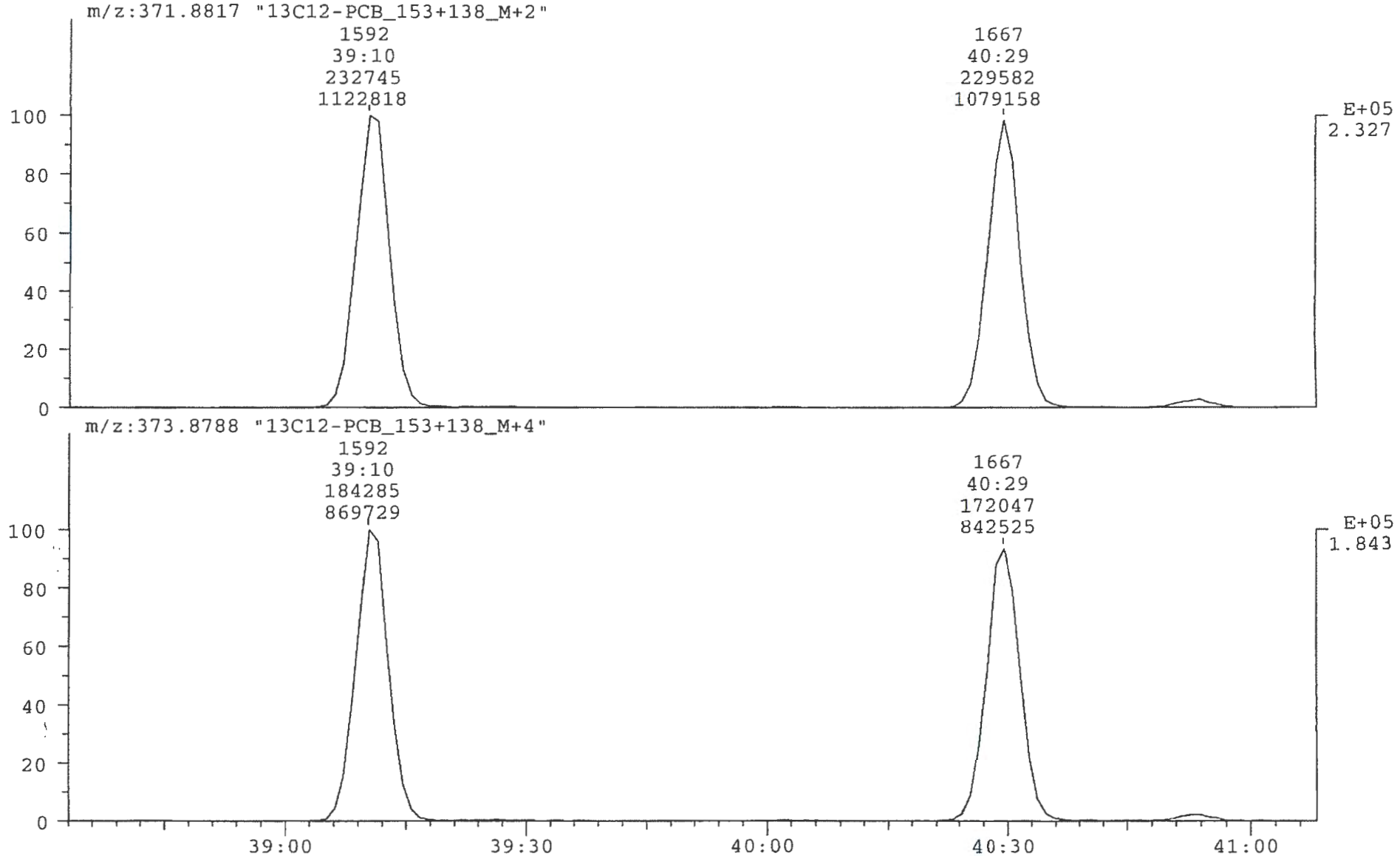
2077

```
CHRO:  a07030721                                07-Mar-07   Elapse:  32:02      1191
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1166 > 1216           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



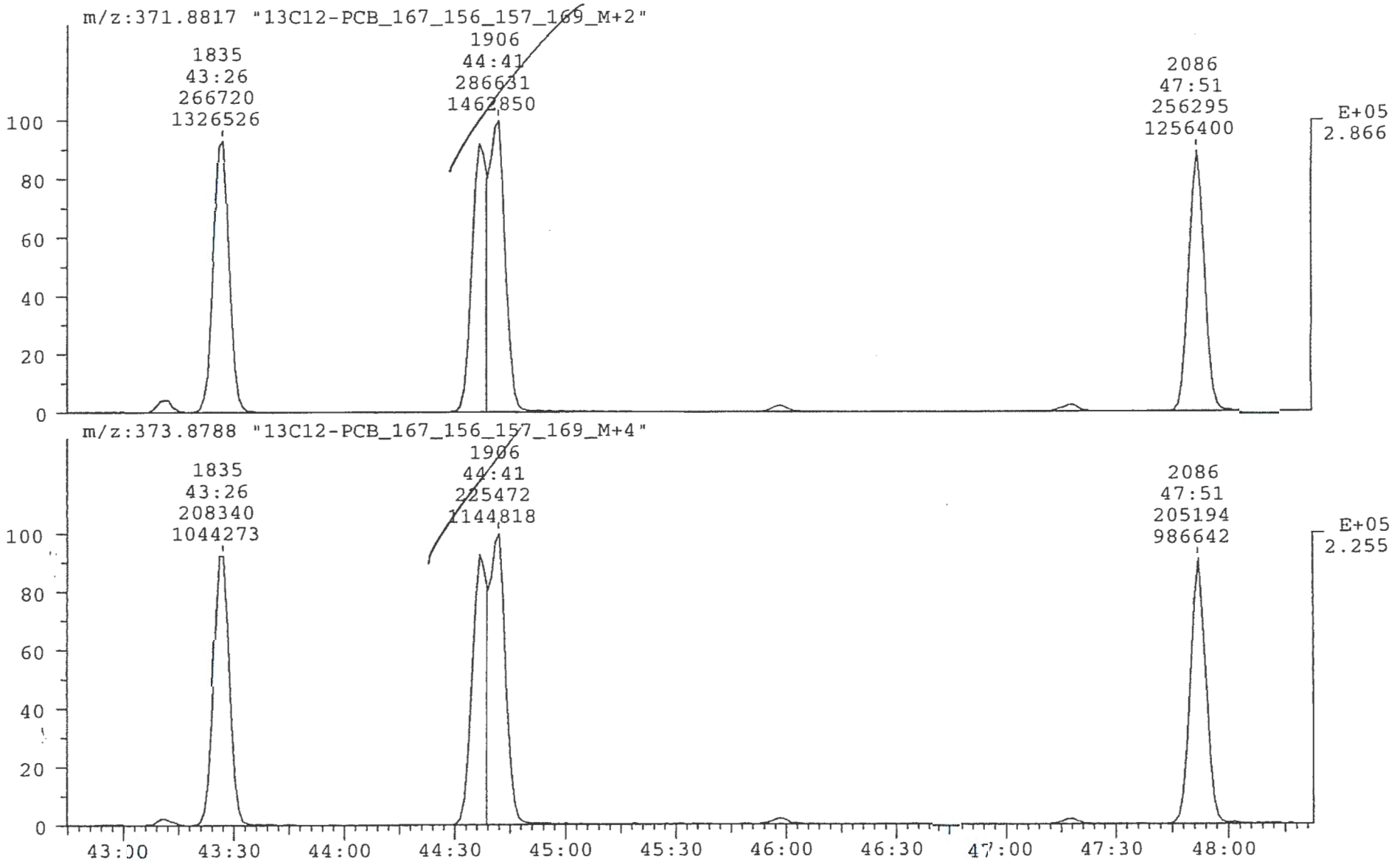
2078

```
CHRO:  a07030721                                07-Mar-07  Elapse:  39:50      1630
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1557 > 1704         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



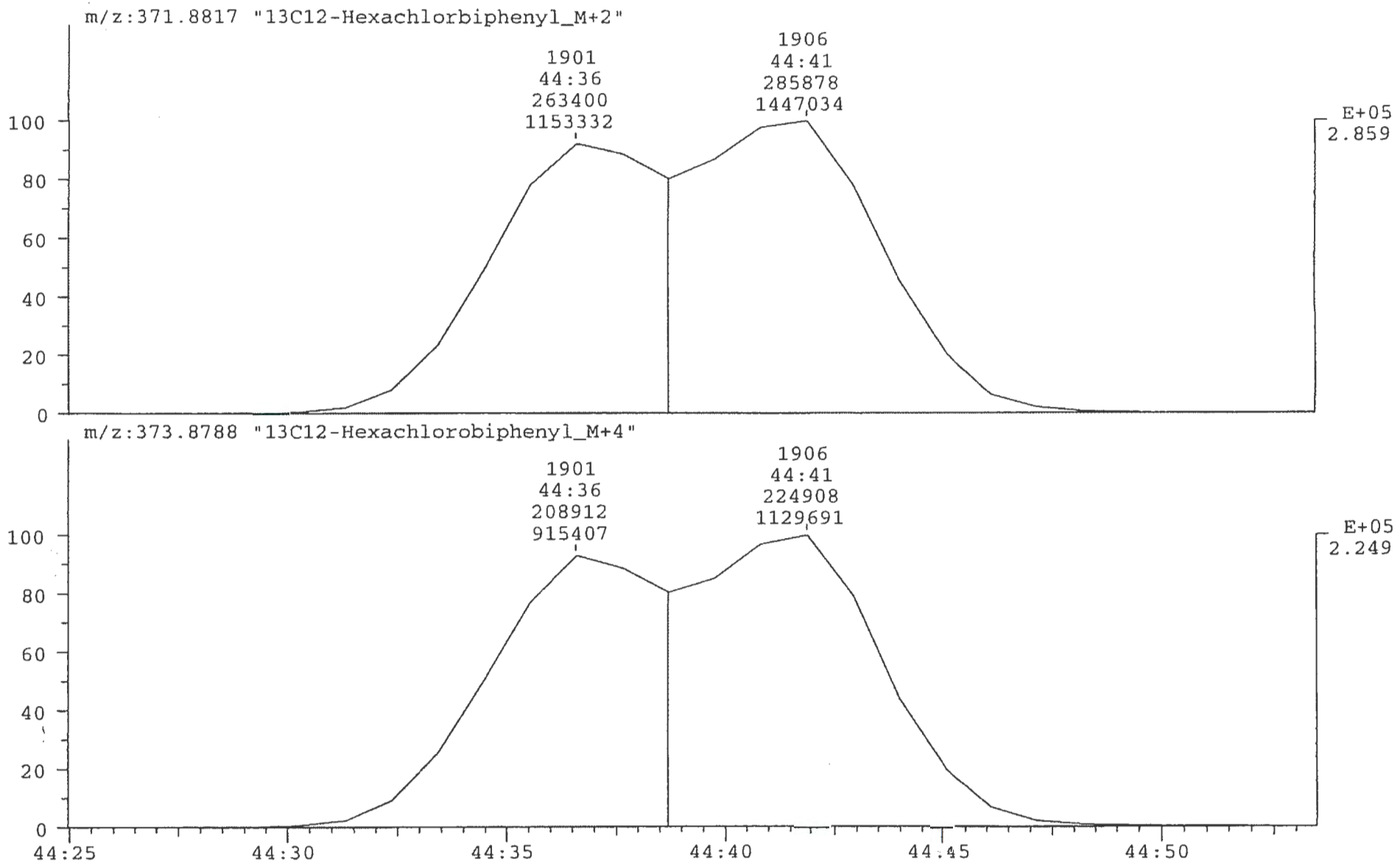
2079

```
CHRO:  a07030721                                07-Mar-07   Elapse:  45:38      1960
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1795 > 2115            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



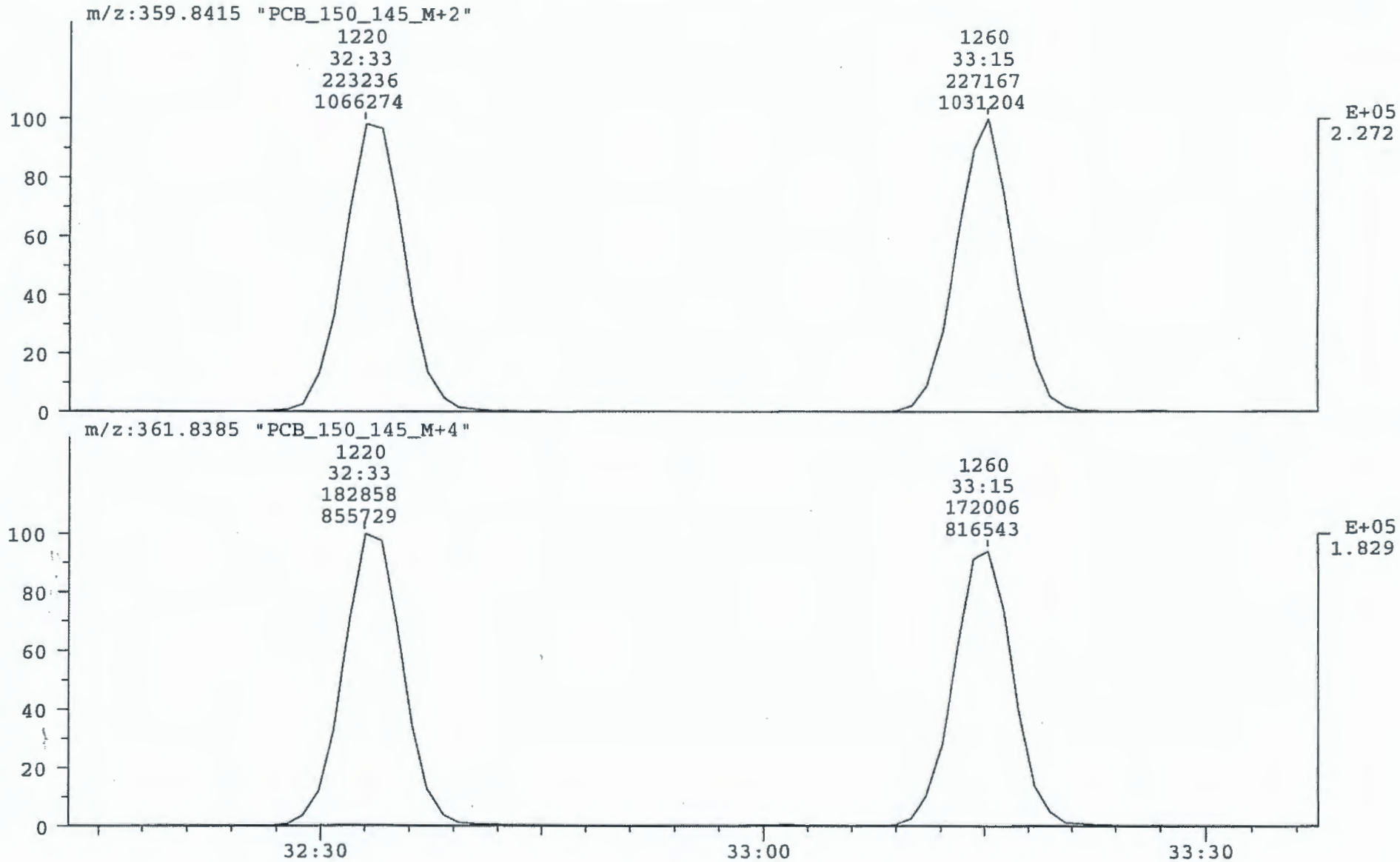
2080

CHRO: a07030721 07-Mar-07 Elapse: 56:11 2555
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1890 > 1917 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



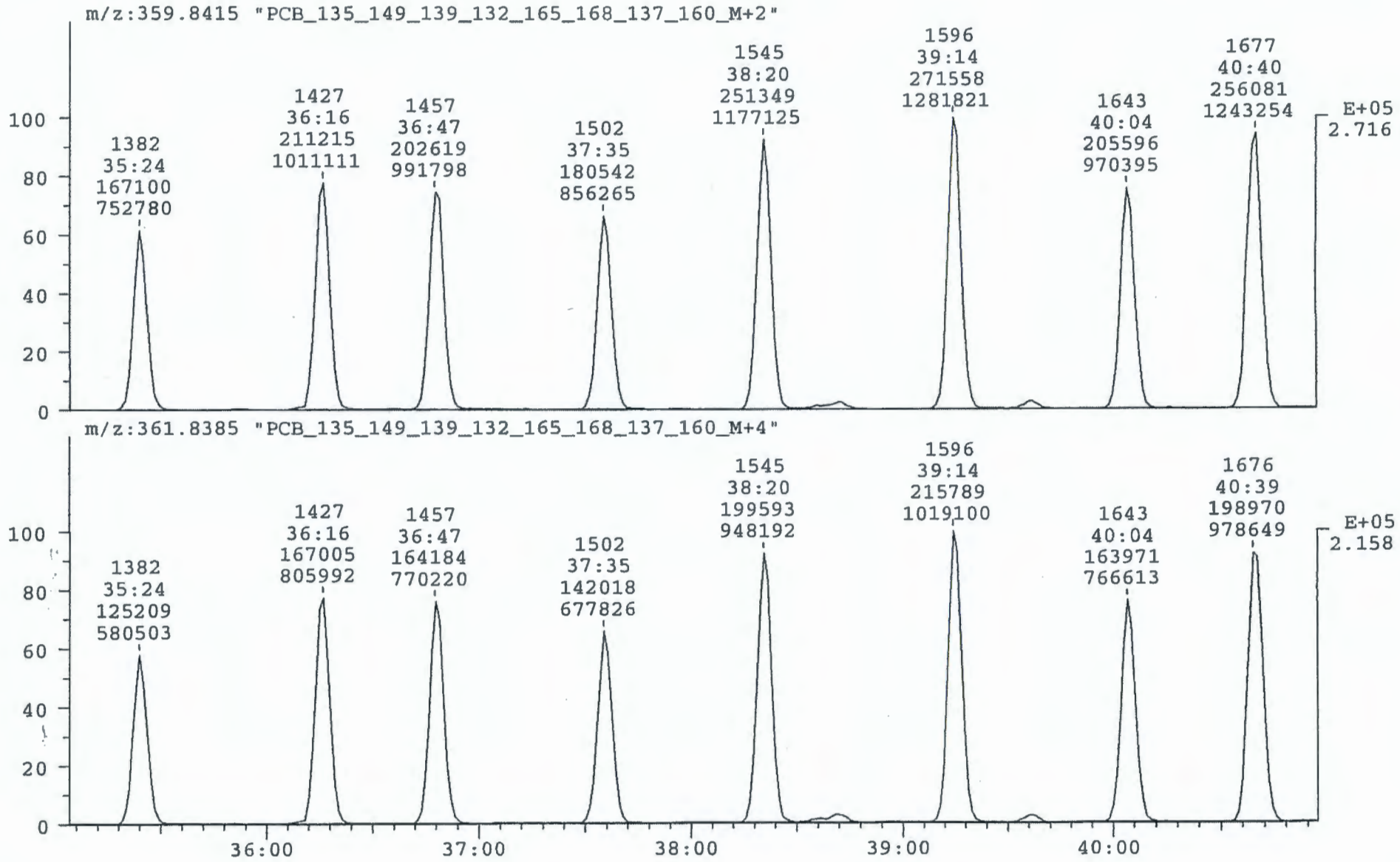
2081

```
CHRO:  a07030721                                07-Mar-07   Elapse:  32:55      1241
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1201 > 1281           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



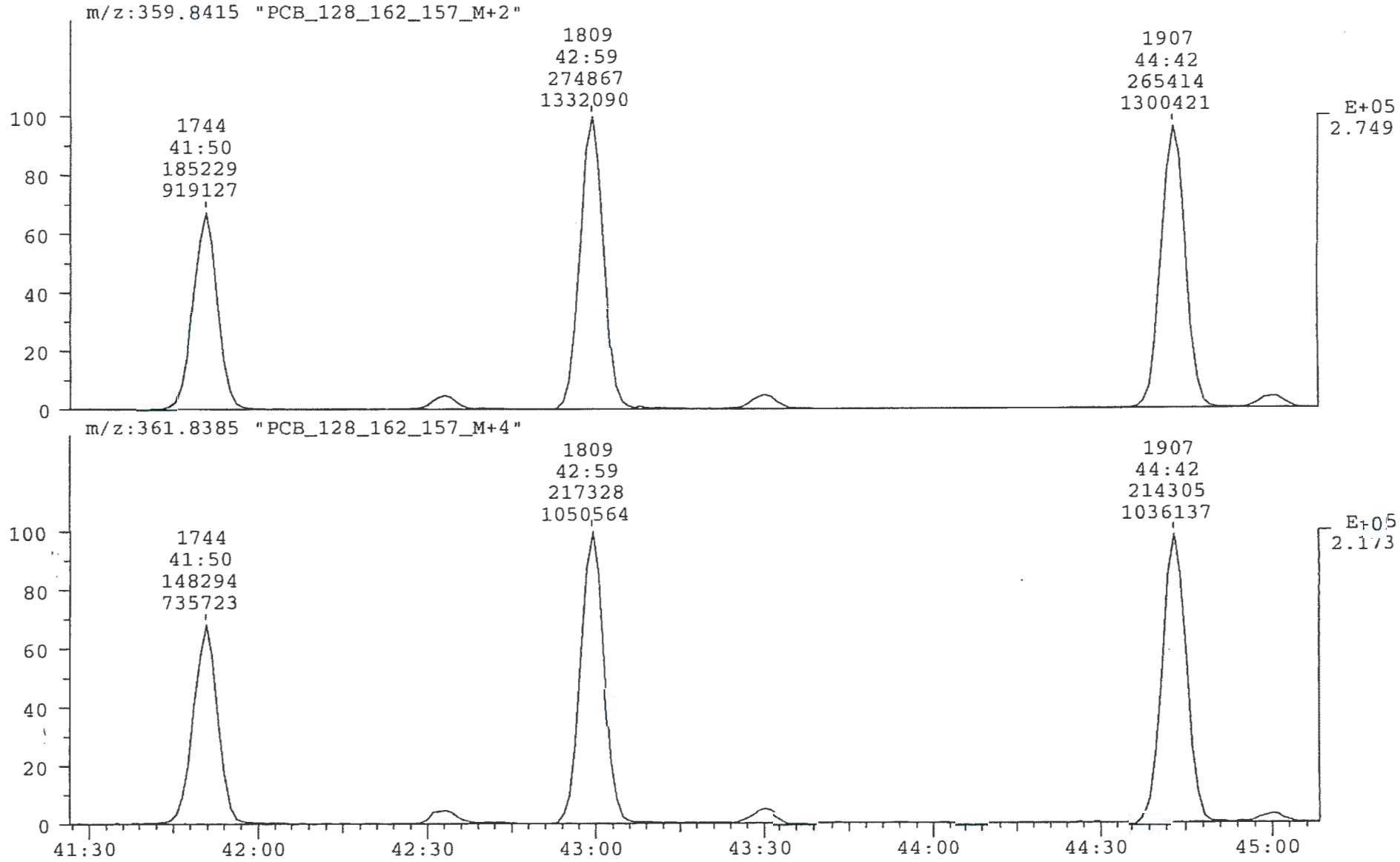
2082

```
CHRO:  a07030721                                07-Mar-07   Elapse:  38:02       1528
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1363 > 1693           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



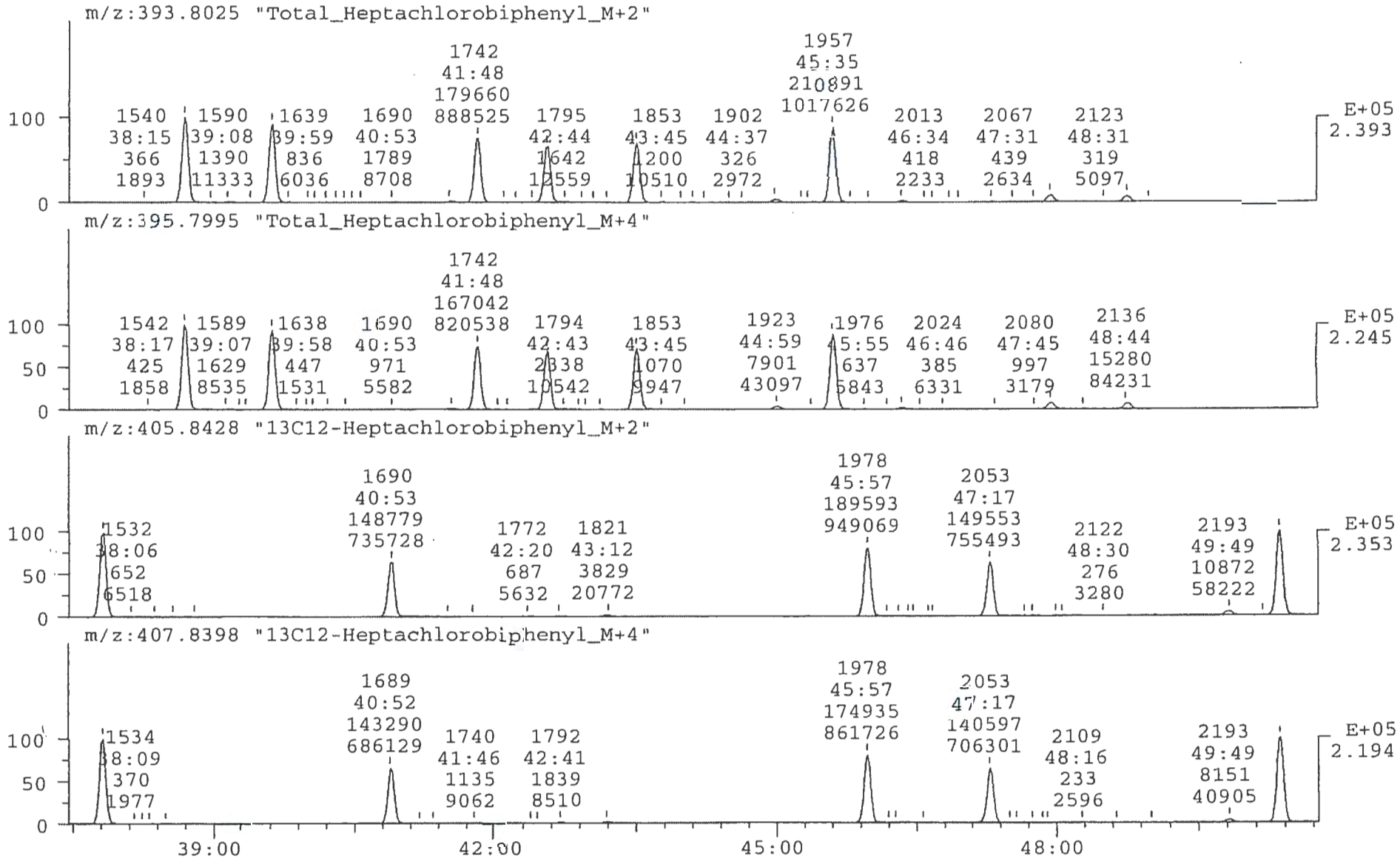
2083

```
CHRO:  a07030721                              07-Mar-07   Elapse:  43:17      1826
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1721 > 1931          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



2084

CHRO: a07030721 07-Mar-07 Elapse: 44:06 1872
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1494 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030721                                07-Mar-07   Elapse:  39:20      1602
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1477 > 1728           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
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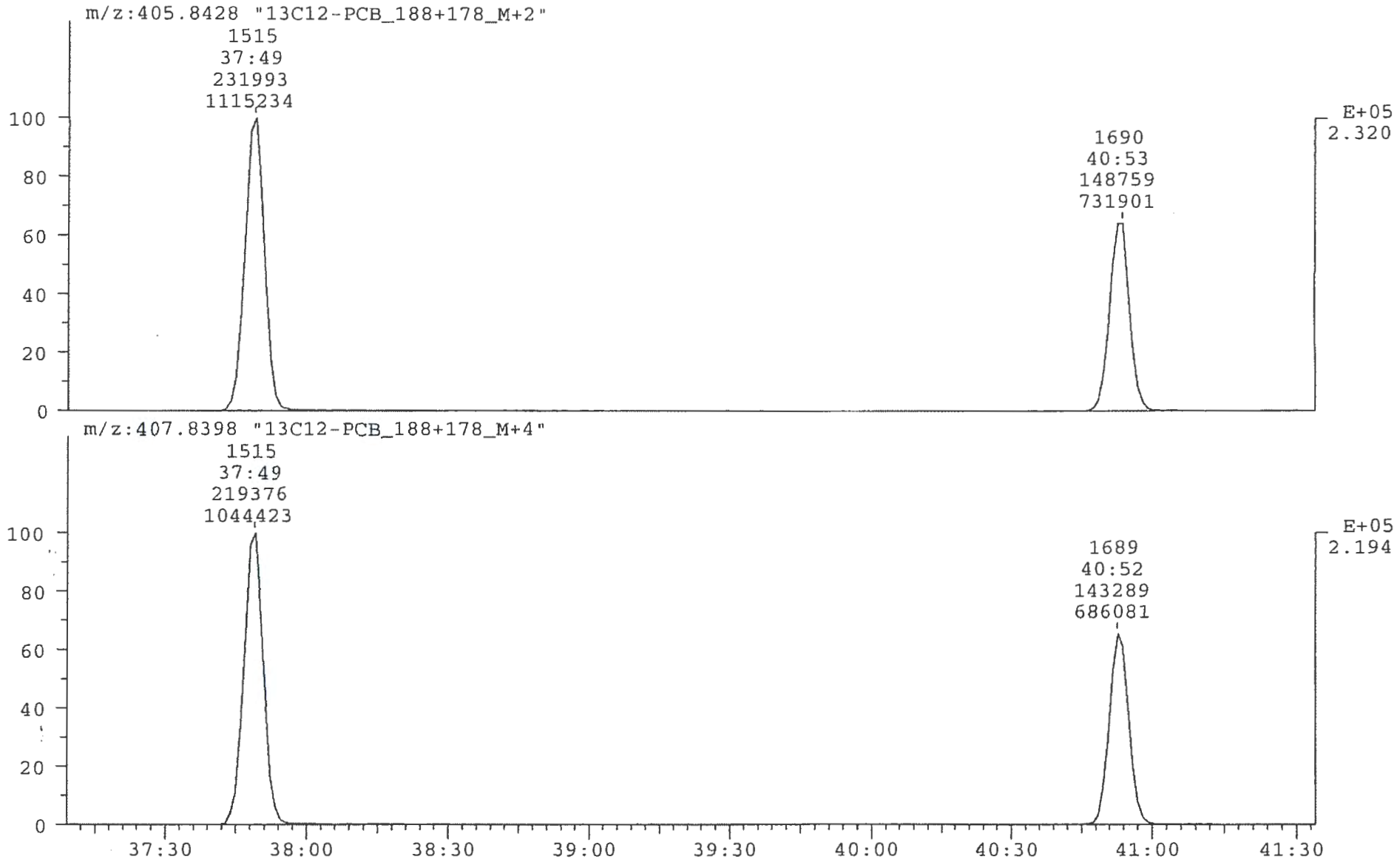
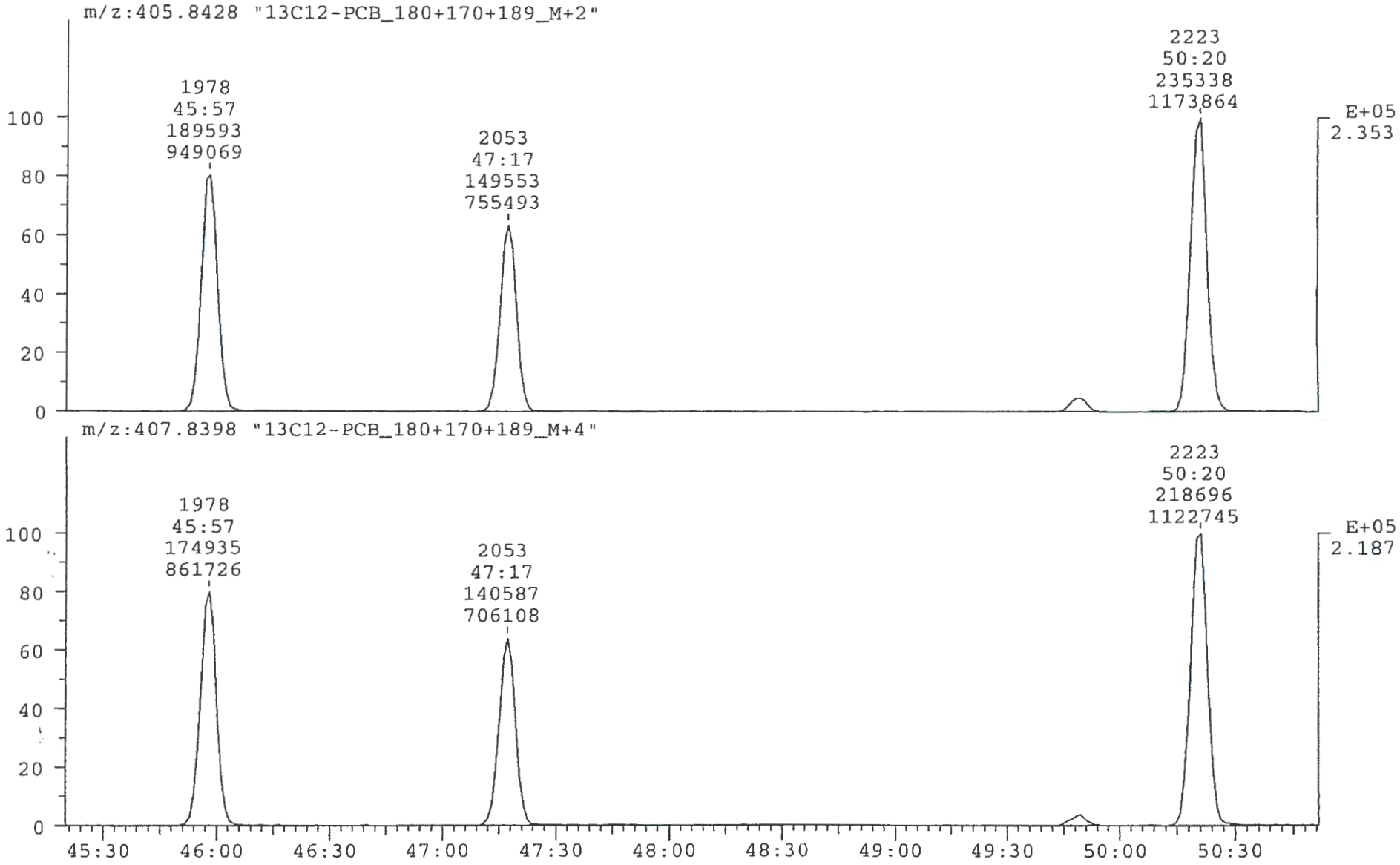
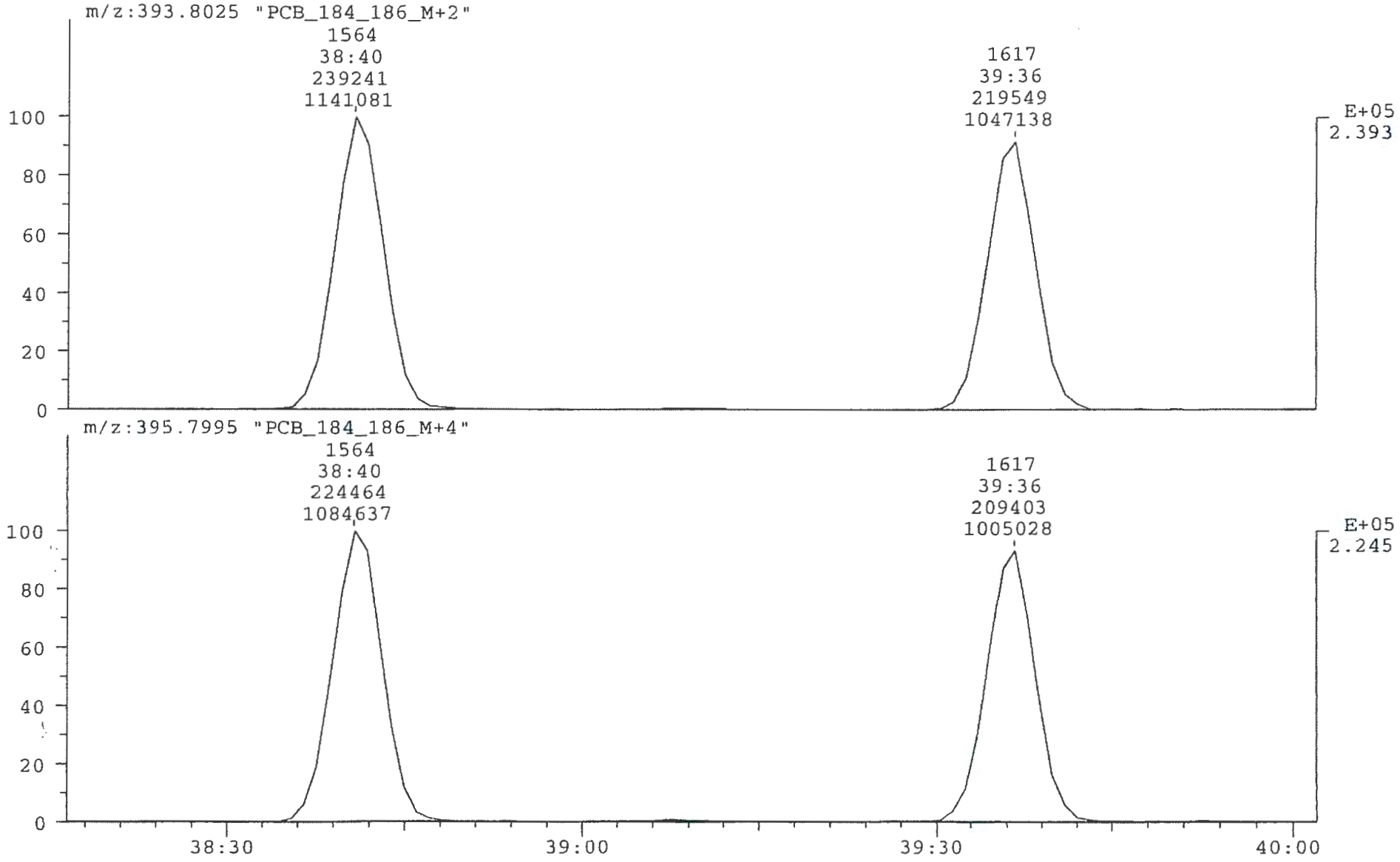


CHRO: a07030721 07-Mar-07 Elapse: 48:08 2102
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1942 > 2252 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

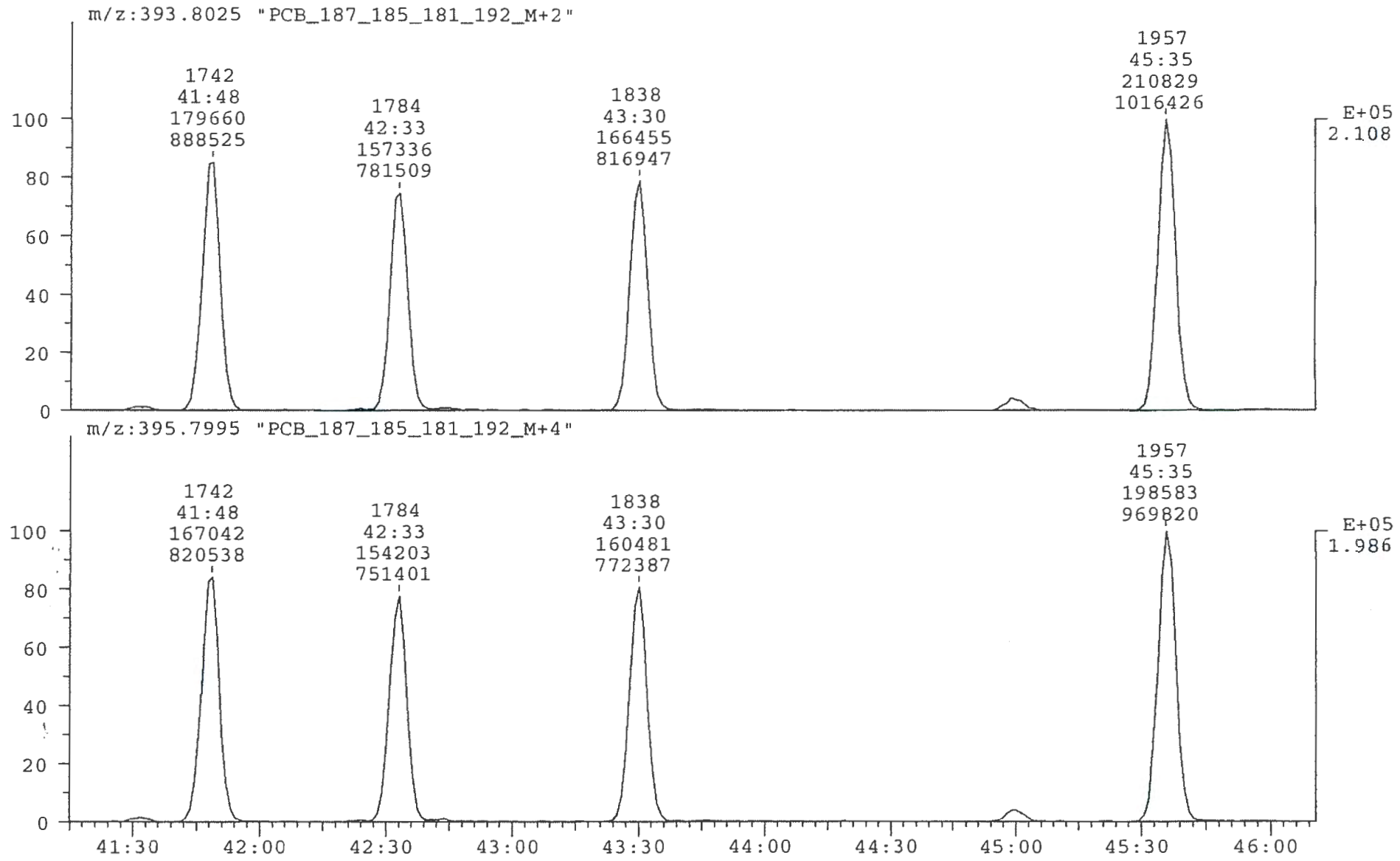


```
CHRO:  a07030721                                07-Mar-07   Elapse:  39:09      1591
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1541 > 1641           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



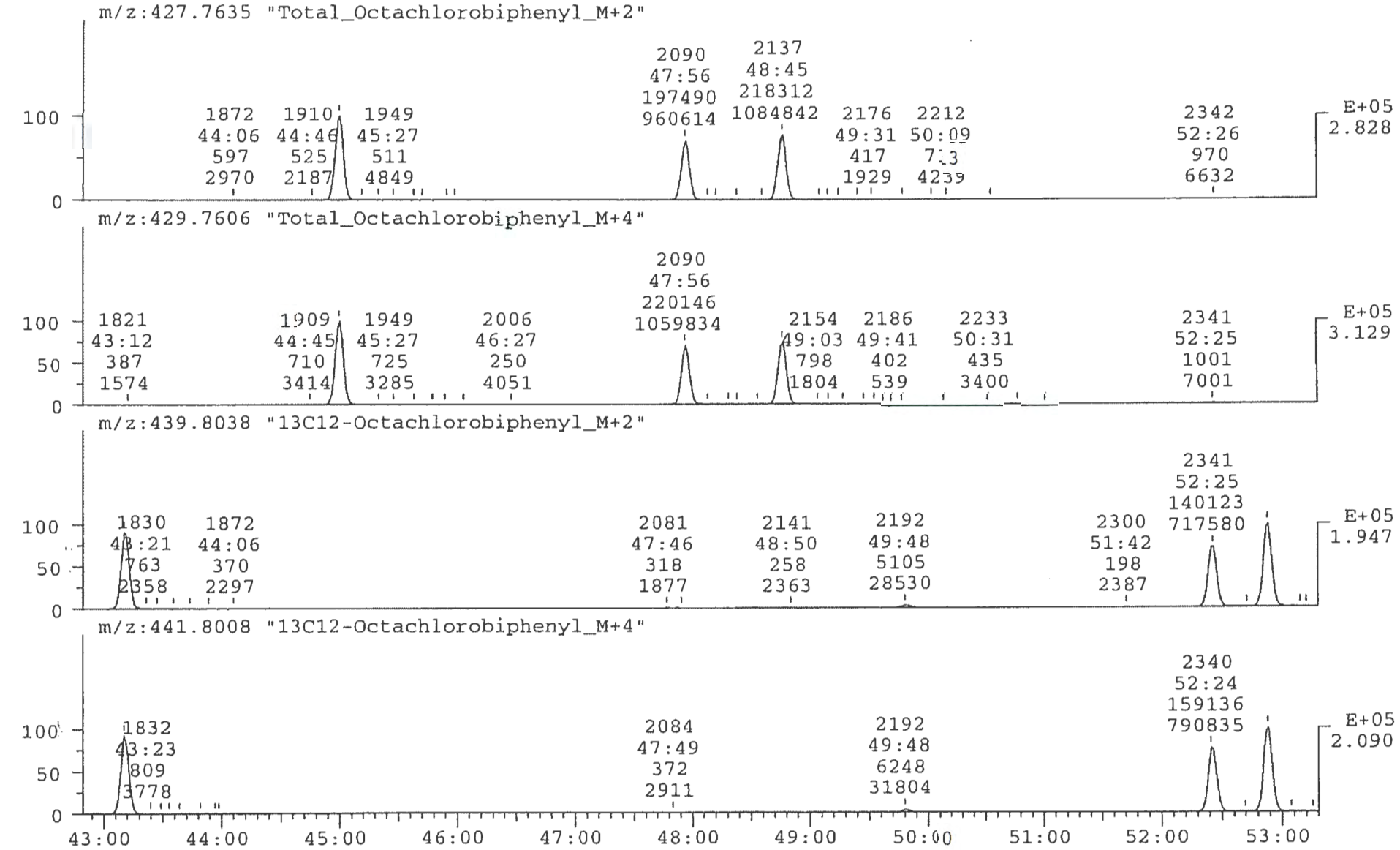
2088

CHRO: a07030721 07-Mar-07 Elapse: 43:42 1850
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1710 > 1990 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2089

CHRO: a07030721 07-Mar-07 Elapse: 48:02 2096
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1799 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2090

```
CHRO:  a07030721                                07-Mar-07   Elapse:  43:07      1817
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  4
Peak:  100.00  ppm     Label wndw:   1781 > 1859            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
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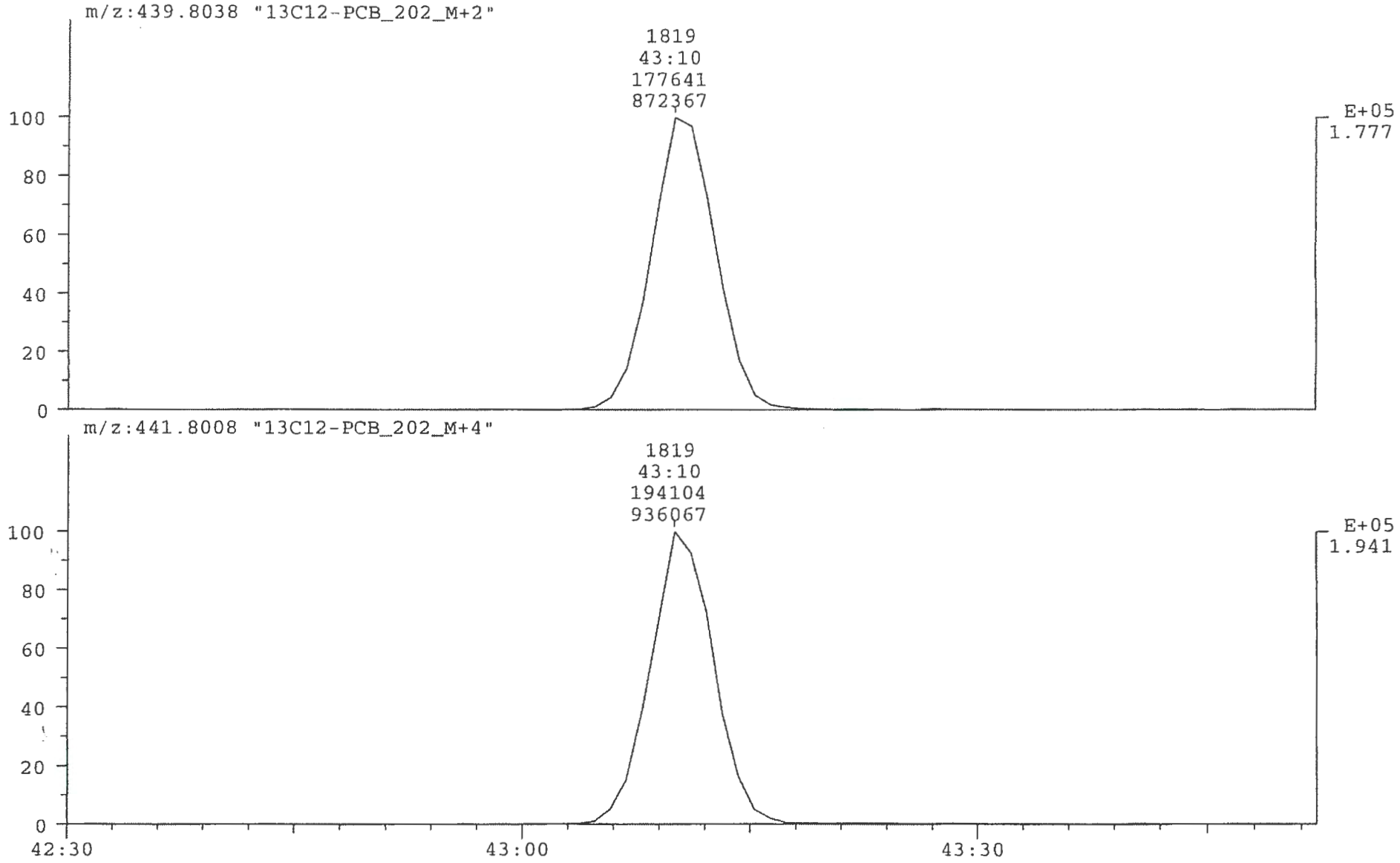
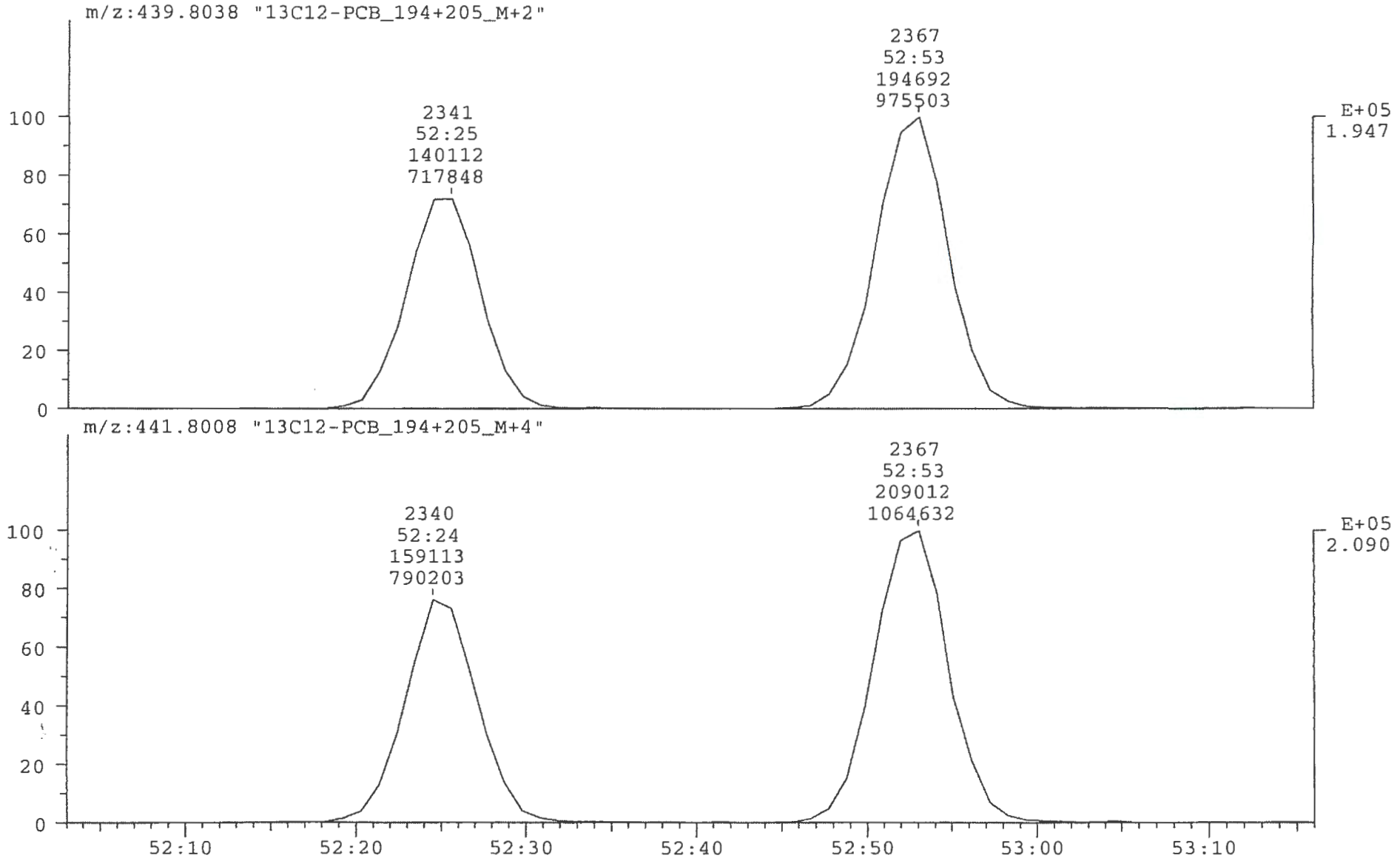


2091

CHRO: a07030721 07-Mar-07 Elapse: 52:39 2354
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2320 > 2389 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030721                                07-Mar-07   Elapse:  46:52      2030
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  4
Peak:  100.00  ppm      Label wndw:   1905 > 2155           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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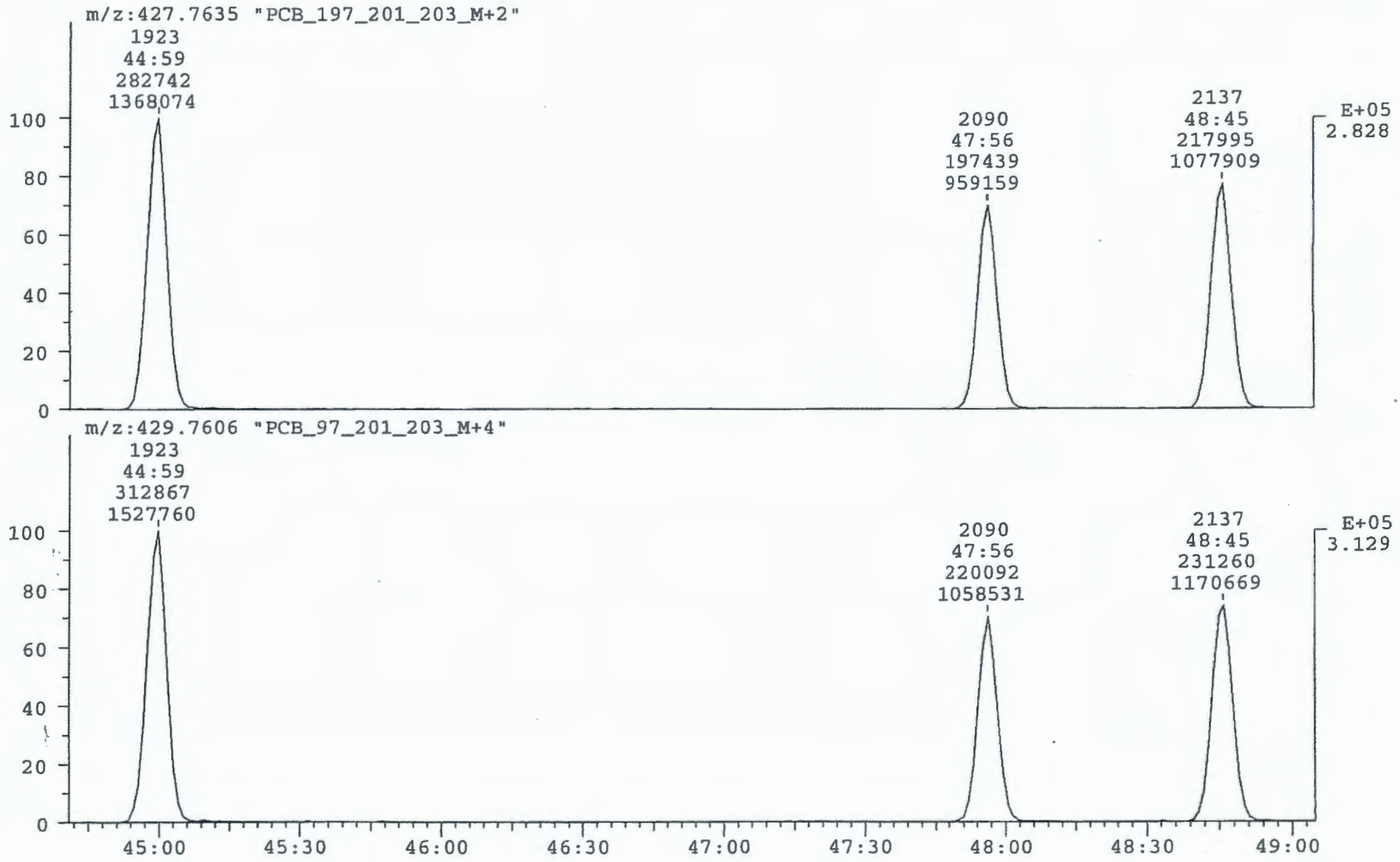
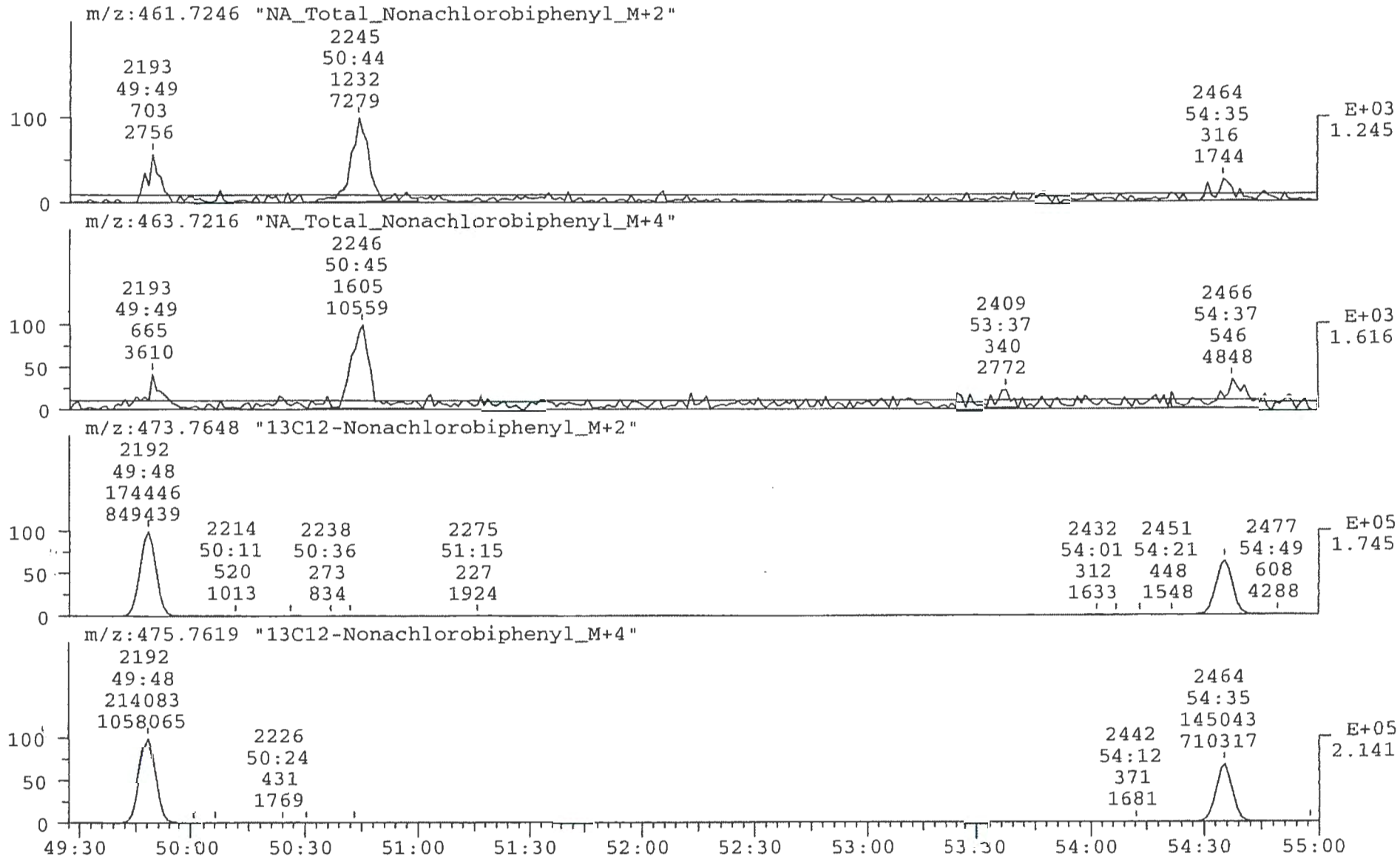


CHRO: a07030721 07-Mar-07 Elapse: 52:12 2329
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 18:05:25 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2172 > 2487 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2094

```
CHRO:  a07030721                              07-Mar-07  Elapse:  52:11      2328
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1              Start :  18:05:25   2502
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville             Inlet :  GC     Vial  4
Peak:  100.00  ppm      Label wndw:   2163 > 2493        Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
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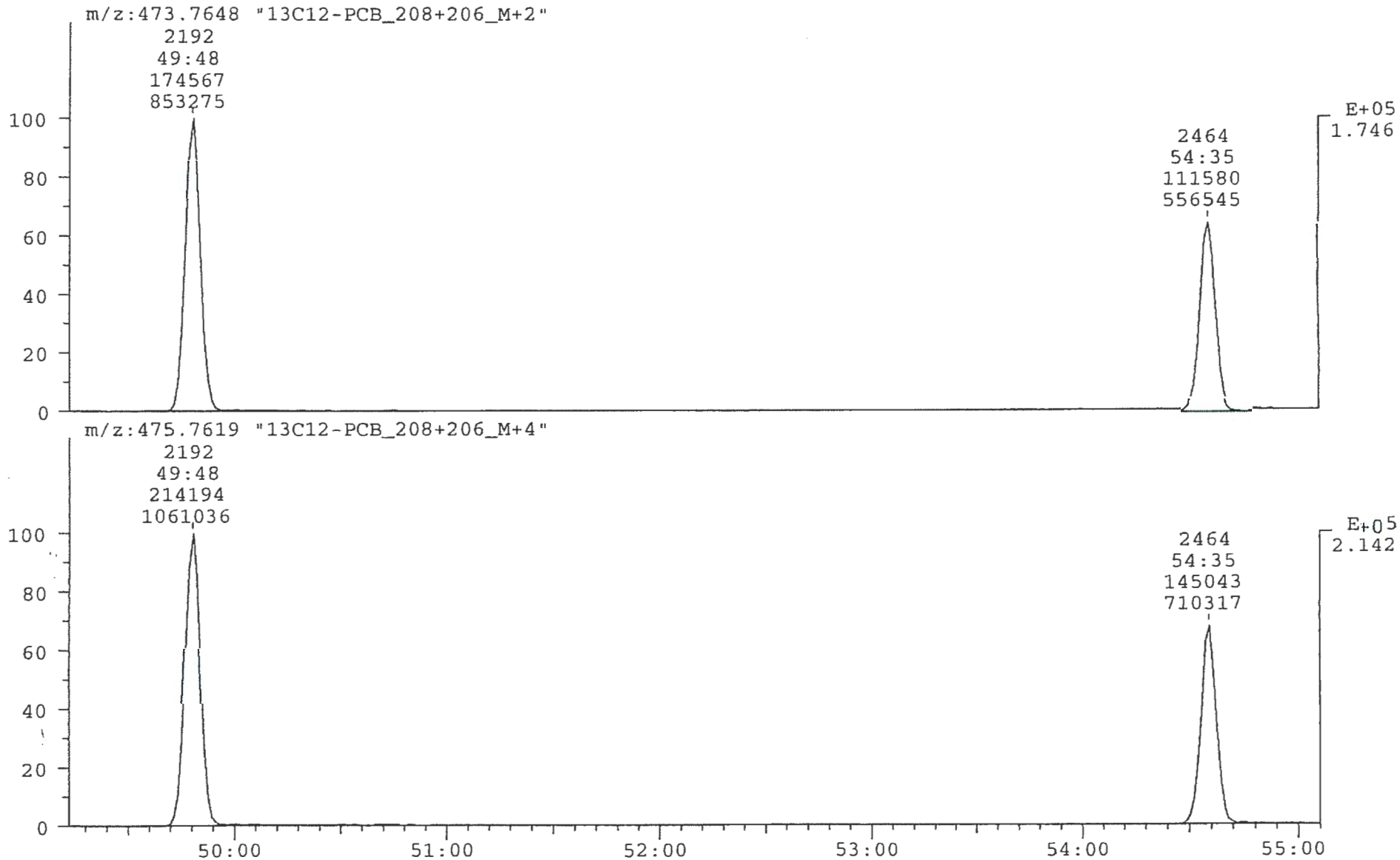

```
CHRO:  a07030721                                07-Mar-07   Elapse:  56:12      2556
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  18:05:25   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   2516 > 2596           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
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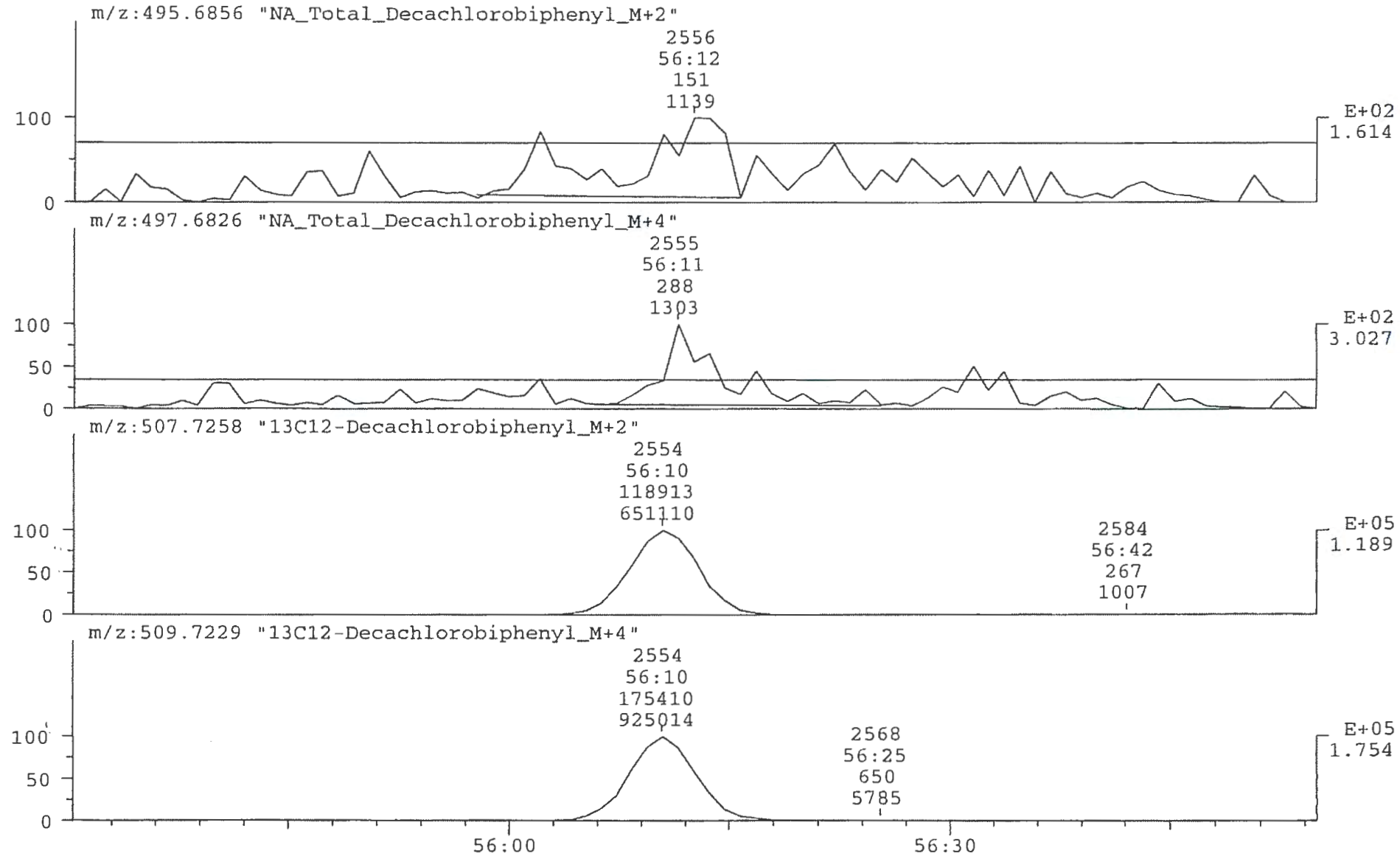


2096

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: a07030721
Study: 1668 RT Mix2/Run1
Sample: WO=2990:75Mix2 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 4
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 2 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	258.0000
FVINLET	255.0000	FVSRC	826.0000	FWIN	0.7000
GCTC	200.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.5686	HVANAL	1322.0000
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	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2611.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8500	TCURR	0.6641
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 07-Mar-07 18:05:25.1

Autosampler has injected sample from vial 4
MID Time Window 1: Resolution is 9049
MID Time Window 2: Resolution is 7911
MID Time Window 3: Resolution is 10086
MID Time Window 4: Resolution is 9203
Analysis stopped at: 07-Mar-07 19:02:28.3 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030722.	Prep Date		SDG No	
Analysis ID	96243	Prep Exp Date		Date Received	
Analysis Date	03/07/07 23:13	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	248	278	99	110	0.90 *	/	
	13C12-PCB 1	12:12	00:00	0	2364346	728809	884507	279709	3.24	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2336889	731116	758637	243237	3.20	AVV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	273	438	109	175	0.62 *	/	
	PCB 7 (BZ)	16:51	00:00	0	896981	566581	261296	164369	1.58	AVV/AVV	D
	PCB 5 (BZ)	17:27	00:00	0	839955	546974	241744	155892	1.54	AVV/AVV	
	PCB 12 (BZ)	20:23	00:00	0	839449	550055	211004	136443	1.53	ABV/AVV	M
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	360	203	144	81	1.78	/	
	13C12-PCB 4	14:43	00:00	0	979071	605288	328871	203909	1.62	AVV/AVV	
	13C12-PCB 9	16:41	00:00	0	1702222	1061561	518319	324030	1.60	ABV/ABV	
	13C12-PCB 8	17:33	00:00	0	1800555	1126226	514271	311959	1.60	AVV/AVV	
	13C12-PCB 15	20:41	00:00	0	1717231	1063736	441103	278298	1.61	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	175	168	70	67	1.04	/	
	PCB 18 (BZ)	19:46	00:00	0	367868	340579	95726	90569	1.08	AVV/ABV	
	PCB 24 (BZ)	20:32	00:00	0	530463	496980	136672	130890	1.07	AVV/AVV	
	PCB 23 (BZ)	22:32	00:00	0	746830	733826	178590	175153	1.02	AVV/ABV	
	PCB 28 (BZ)	23:43	00:00	0	807160	791583	187463	188629	1.02	ABV/ABV	D
	PCB 22 (BZ)	24:25	00:00	0	779126	745669	180327	171307	1.04	AVV/AVV	D
	PCB 39 (BZ)	26:17	00:00	0	868126	848429	188858	190154	1.02	ABV/ABV	D
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	640	278	256	111	2.31 *	/	
	13C12-PCB 19	17:54	00:00	0	603178	564841	164302	152782	1.07	AVV/AVV	
	13C12-PCB 32	21:10	00:00	0	1106270	1026848	280605	257727	1.08	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1639893	1582966	405081	394998	1.04	ABV/ABV	
	13C12-PCB 28	23:42	00:00	0	1556607	1480429	371696	359773	1.05	AVV/AVV	
	13C12-PCB 37	27:47	00:00	0	1435997	1337386	326690	303169	1.07	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	183	415	73	166	0.44 *	/	
	PCB 53 (BZ)	23:12	00:00	0	797666	1011943	194285	250855	0.79	ABV/ABV	M
	PCB 51 (BZ)	23:56	00:00	0	806715	1025119	188519	238743	0.79	ABV/ABB	M
	PCB 73 (BZ)	25:42	00:00	0	1051749	1331271	249020	306722	0.79	ABV/ABV	
	PCB 48 (BZ)	26:20	00:00	0	802539	1025257	181716	237882	0.78	AVV/AVV	
	PCB 62 (BZ)	26:49	00:00	0	1012751	1295226	229233	299728	0.78	AVV/AVV	
	PCB 71 (BZ)	27:38	00:00	0	1110854	1427265	253127	326838	0.78	ABV/ABV	D
	PCB 68 (BZ)	28:53	00:00	0	1125928	1446829	247908	325639	0.78	ABV/ABV	D
	PCB 58 (BZ)	29:36	00:00	0	1151608	1435819	251361	316255	0.80	AVV/AVV	D
	PCB 61 (BZ)	30:14	00:00	0	1023780	1303949	230926	295662	0.79	AVV/AVV	D
	PCB 55 (BZ)	30:54	00:00	0	1073890	1349414	230800	293589	0.80	ABV/AVV	D

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030722.	Prep Date		SDG No	
Analysis ID	96243	Prep Exp Date		Date Received	
Analysis Date	03/07/07 23:13	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	PCB 60 (BZ)	31:37	00:00	0	1095796	1405306	242063	309441	0.78	AVV/AVV	D
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	140	130	56	52	1.08 *	/	
	13C12-PCB 54	21:02	00:00	0	518604	653665	133944	160435	0.79	ABV/ABV	
	13C12-PCB 52	25:34	00:00	0	760388	977989	178345	226149	0.78	ABV/ABV	
	13C12-PCB 79	33:29	00:00	0	1128033	1430679	239989	301764	0.79	ABV/ABV	
	13C12-PCB 81	34:31	00:00	0	969573	1240747	200895	256047	0.78	ABV/ABV	D
	13C12-PCB 77	35:06	00:00	0	1034261	1273145	214135	266333	0.81	ABV/ABB	D
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	310	243	124	97	1.28 *	/	
	PCB 94 (BZ)	29:04	00:00	0	817485	510155	181900	114913	1.60	ABV/ABV	D
	PCB 100 (BZ)	29:38	00:00	0	995105	619894	222500	140456	1.61	AVV/AVV	
	PCB 91 (BZ)	30:23	00:00	0	900850	555997	199414	122573	1.62	AVV/AVV	D
	PCB 121 (BZ)	31:21	00:00	0	1232056	782057	268092	168896	1.58	ABV/ABV	D
	PCB 90 (BZ)	32:22	00:00	0	873384	551773	195344	124937	1.58	ABV/AVV	DM
	PCB 99 (BZ)	32:57	00:00	0	1026465	646396	226061	139048	1.59	AVV/ABV	DM
	PCB 109 (BZ)/108 (IUPAC	33:26	00:00	0	1199633	763245	253850	163054	1.57	AVV/AVV	D
	PCB 117 (BZ)	34:07	00:00	0	1237920	773537	272465	169906	1.60	ABV/ABV	D
	PCB 111 (BZ)	35:02	00:00	0	1282170	806656	274317	173697	1.59	ABB/AVB	D
	PCB 108 (BZ)/107 (IUPAC	36:42	00:00	0	1438178	927088	289403	190376	1.55	AVV/AVV	DM
	PCB 118 (BZ)	37:23	00:00	0	1419634	905240	298338	190593	1.57	AVV/AVV	
	PCB 114 (BZ)	37:54	00:00	0	1430438	930042	303090	196637	1.54	AVV/AVV	
338					**337.9207**	**339.9178**	**337.9207**	**339.9178**	**1.32-1.78**		
	Noise	00:00	00:00	0	163	143	65	57	1.14 *	/	
	13C12-PCB 104	26:29	00:00	0	1149963	710598	257200	163938	1.62	ABV/ABV	D
	13C12-PCB 95	29:30	00:00	0	894251	555798	202354	124161	1.61	ABV/ABV	D
	13C12-PCB 101	32:22	00:00	0	925870	570180	200841	127524	1.62	ABV/ABV	
	13C12-PCB 111	35:00	00:00	0	1202476	746841	254441	161208	1.61	ABV/AVV	
	13C12-PCB 123	37:02	00:00	0	1374883	857475	281863	176252	1.60	ABV/ABV	D
	13C12-PCB 118	37:21	00:00	0	1453369	899985	314471	192725	1.61	AVV/AVV	D
	13C12-PCB 114	37:53	00:00	0	1412913	876517	283562	183157	1.61	ABV/AVV	D
	13C12-PCB 105	38:36	00:00	0	1376385	850091	290922	178017	1.62	ABV/ABV	D
	13C12-PCB 127	39:58	00:00	0	1559960	955988	317912	195459	1.63	ABV/ABV	
	13C12-PCB 126	41:39	00:00	0	1474166	913705	299235	187982	1.61	AVV/ABV	D
360					**359.8415**	**361.8385**	**359.8415**	**361.8385**	**1.05-1.43**		
	Noise	00:00	00:00	0	315	238	126	95	1.33	/	
	PCB 150 (BZ)	32:32	00:00	0	985998	775249	214828	166031	1.27	ABV/ABV	D
	PCB 145 (BZ)	33:13	00:00	0	942765	732592	199935	153908	1.29	ABV/ABV	D
	PCB 135 (BZ)	35:23	00:00	0	675451	529894	144677	106550	1.27	ABV/ABV	D
	PCB 149 (BZ)	36:14	00:00	0	919431	740951	197189	157435	1.24	AVV/ABV	DM
	PCB 139 (BZ)	36:47	00:00	0	913693	727286	189644	151704	1.26	AVV/AVV	D
	PCB 132 (BZ)	37:34	00:00	0	790939	623635	160063	122322	1.27	AVV/AVV	D
	PCB 165 (BZ)	38:20	00:00	0	1102354	876506	230872	183691	1.26	AVV/ABV	D

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030722.	Prep Date		SDG No	
Analysis ID	96243	Prep Exp Date		Date Received	
Analysis Date	03/07/07 23:13	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	PCB 168 (BZ)	39:14	00:00	0	1170761	936316	250037	196520	1.25	ABV/ABV	DM
	PCB 137 (BZ)	40:03	00:00	0	884073	710589	183468	143530	1.24	ABV/AVV	D
	PCB 160 (BZ)	40:38	00:00	0	1152781	910033	243625	187518	1.27	AVV/ABV	M
	PCB 128 (BZ)	41:49	00:00	0	847756	669970	163962	129512	1.27	ABV/ABV	
	PCB 162 (BZ)	42:57	00:00	0	1224261	980922	252059	203469	1.25	AVV/AVV	
	PCB 157 (BZ)	44:42	00:00	0	1208827	963648	248517	193478	1.25	ABV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	135	145	54	58	0.93 *	/	
	13C12-PCB 155	32:02	00:00	0	952186	745919	210196	164755	1.28	ABV/ABV	D
	13C12-PCB 153	39:09	00:00	0	1013389	790574	214310	170057	1.28	ABV/ABV	D
	13C12-PCB 138	40:29	00:00	0	1001394	784029	204830	159230	1.28	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1226450	948959	253989	199232	1.29	AVV/AVV	
	13C12-PCB 156	44:36	00:00	0	1157137	926062	245976	192466	1.25	ABV/ABV	D
	13C12-PCB 157	44:40	00:00	0	1216657	959101	267657	211130	1.27	AVV/AVB	M
	13C12-PCB 169	47:51	00:00	0	1163927	923803	228642	180253	1.26	ABV/AVV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	268	180	107	72	1.49 *	/	
	PCB 184 (BZ)	38:40	00:00	0	1024521	990791	214787	209072	1.03	ABV/ABV	
	PCB 186 (BZ)	39:35	00:00	0	964616	904843	193043	180780	1.07	ABV/AVV	D
	PCB 187 (BZ)	41:47	00:00	0	797400	757358	165038	159320	1.05	ABV/AVV	D
	PCB 185 (BZ)	42:31	00:00	0	738090	692674	147710	143255	1.07	AVV/AVV	D
	PCB 181 (BZ)	43:28	00:00	0	744275	695863	149098	139895	1.07	AVV/AVV	D
	PCB 192 (BZ)	45:35	00:00	0	919402	883507	183478	180589	1.04	ABV/AVV	D
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	133	180	53	72	0.74 *	/	
	13C12-PCB 188	37:47	00:00	0	1004529	944975	208183	203692	1.06	ABV/ABV	D
	13C12-PCB 178	40:52	00:00	0	662771	611016	137503	127343	1.08	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	862980	785645	175440	159017	1.10	ABV/ABV	
	13C12-PCB 170	47:15	00:00	0	682053	655197	136679	128539	1.04	AVV/AVV	
	13C12-PCB 189	50:19	00:00	0	1099901	1049544	226247	214737	1.05	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	213	168	85	67	1.27 *	/	
	PCB 197 (BZ)	44:58	00:00	0	1239698	1350295	259589	276528	0.92	ABV/ABV	
	PCB 201 (BZ)/199 (IUPAC	47:54	00:00	0	863031	964235	173535	196759	0.90	ABV/ABV	DM
	PCB 203 (BZ)	48:44	00:00	0	970108	1069068	196443	221579	0.91	AVV/AVV	D
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	138	118	55	47	1.17 *	/	
	13C12-PCB 202	43:09	00:00	0	793320	854946	165708	180251	0.93	ABV/ABV	D
	13C12-PCB 194	52:23	00:00	0	673104	739113	134990	147976	0.91	ABV/ABV	
	13C12-PCB 205	52:51	00:00	0	908905	996862	182431	199869	0.91	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	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

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030722.	Prep Date		SDG No	
Analysis ID	96243	Prep Exp Date		Date Received	
Analysis Date	03/07/07 23:13	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

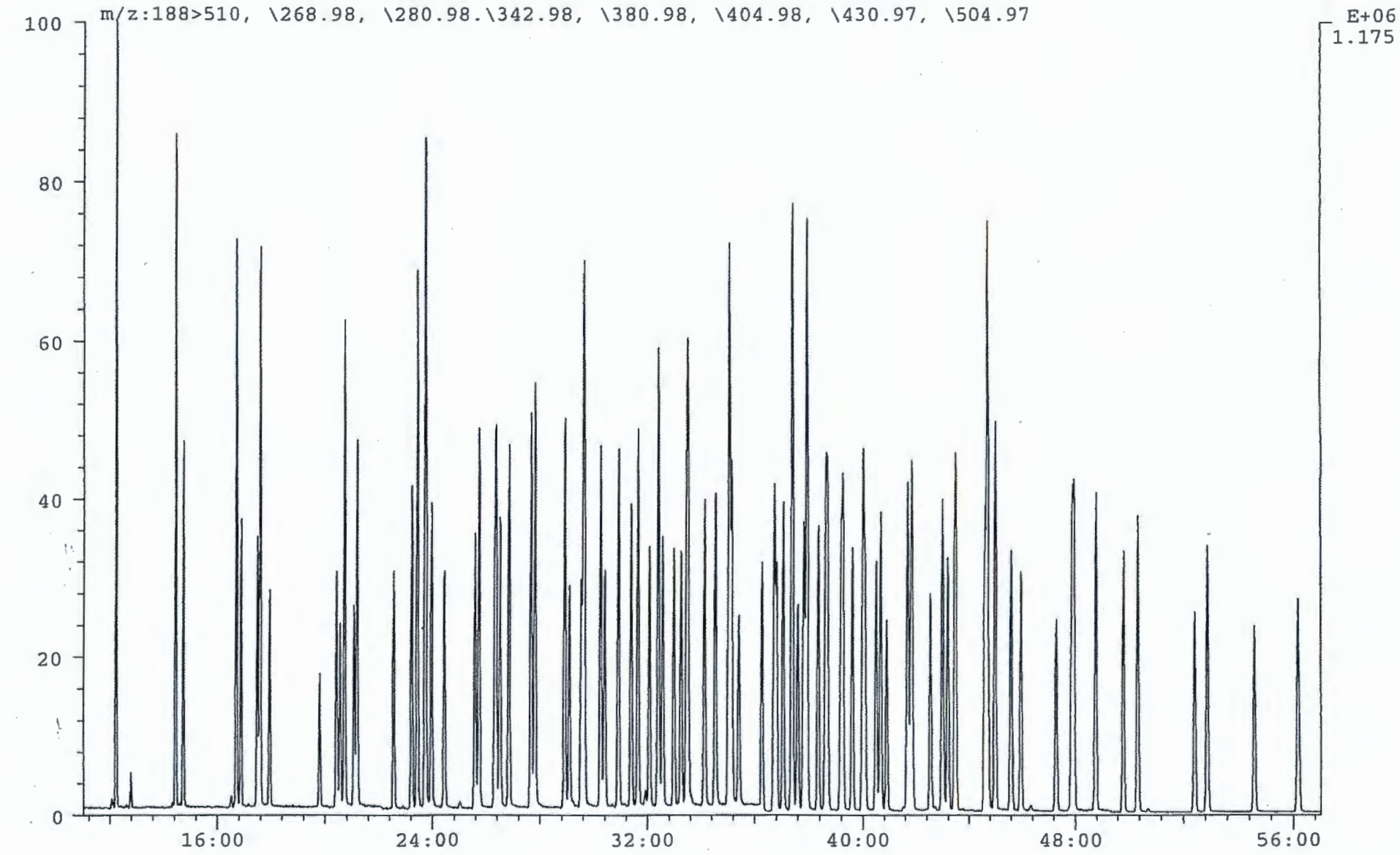
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89	
	Noise	00:00	00:00	0	145	165	58	66	0.88	/
	13C12-PCB 208	49:46	00:00	0	777749	967800	157832	193782	0.80	AVV/AVV
	13C12-PCB 206	54:33	00:00	0	526973	652333	102773	132964	0.81	AVV/ABV
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79	
	Noise	00:00	00:00	0	75	98	30	39	0.77	/
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79	
	Noise	00:00	00:00	0	170	123	68	49	1.39 *	/
	13C12-PCB 209	56:08	00:00	0	606381	855703	112624	154666	0.71	ABV/ABV

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

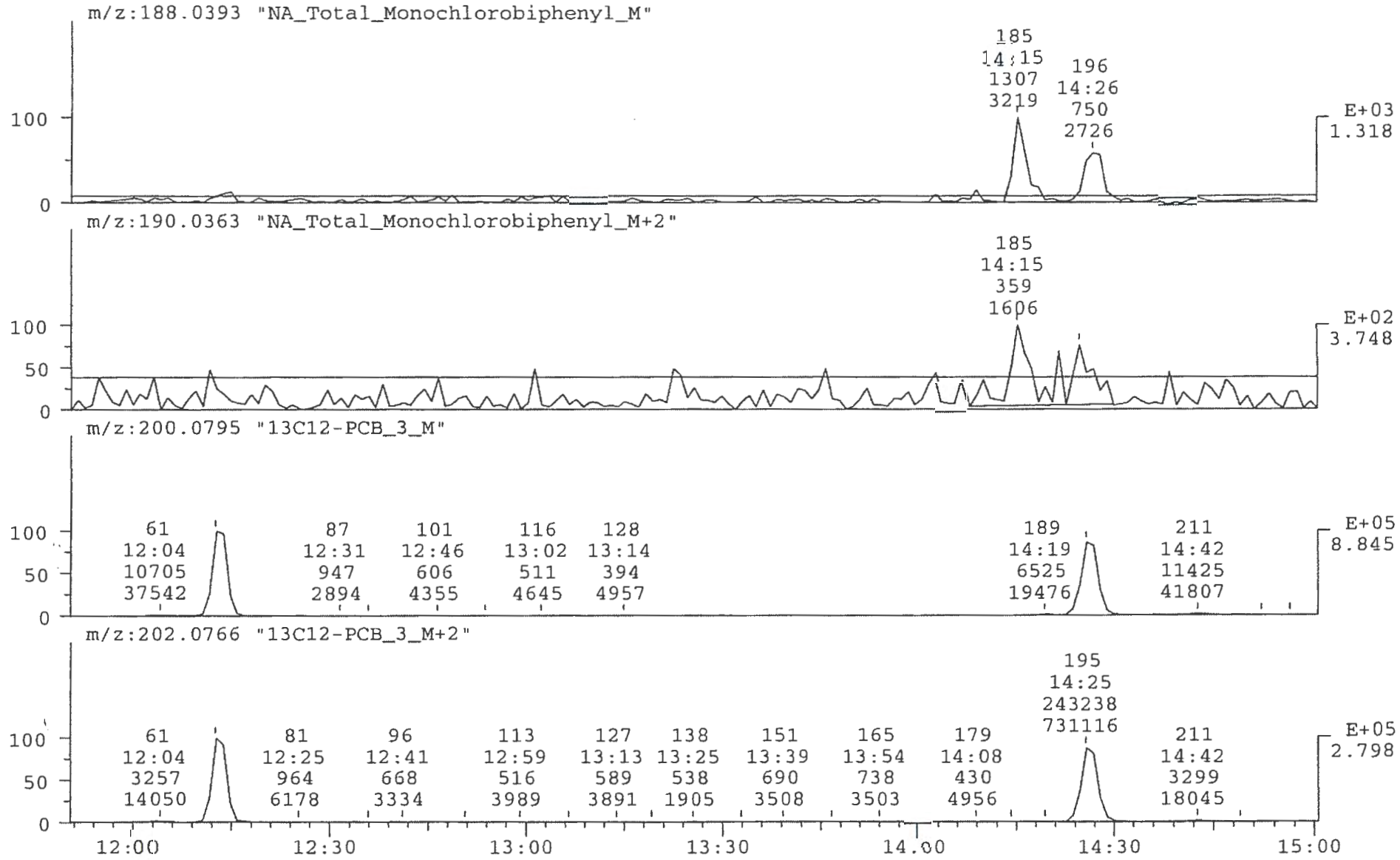
Int DCG 3.1707
Cal CPCG 3.1907
GC BRW 3/19/07

CHRO: a07030722 07-Mar-07 Elapse: 56:11 2556
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2 > 2602 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

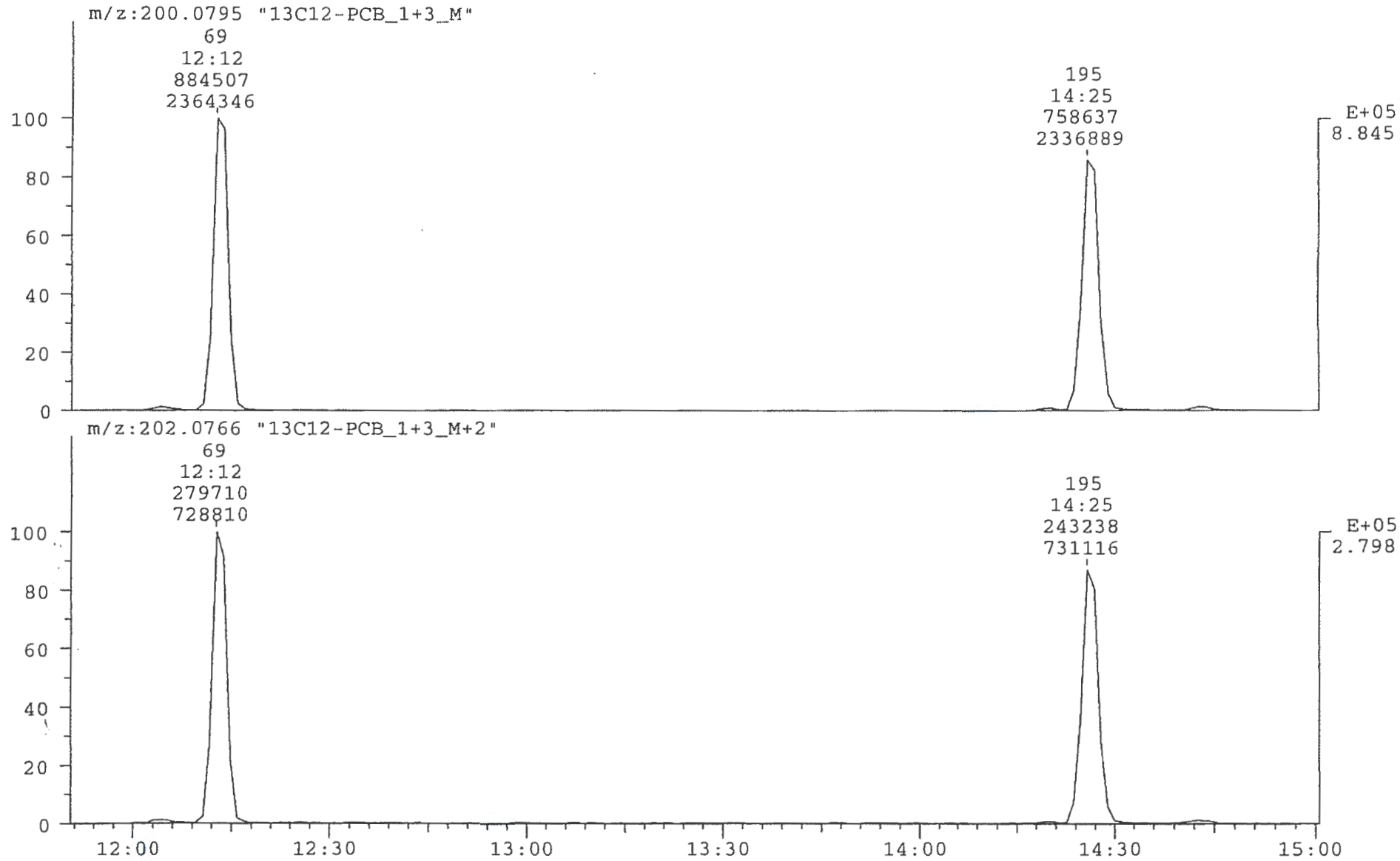


2105

CHRO: a07030722 07-Mar-07 Elapse: 13:25.5 138
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 48 > 228 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

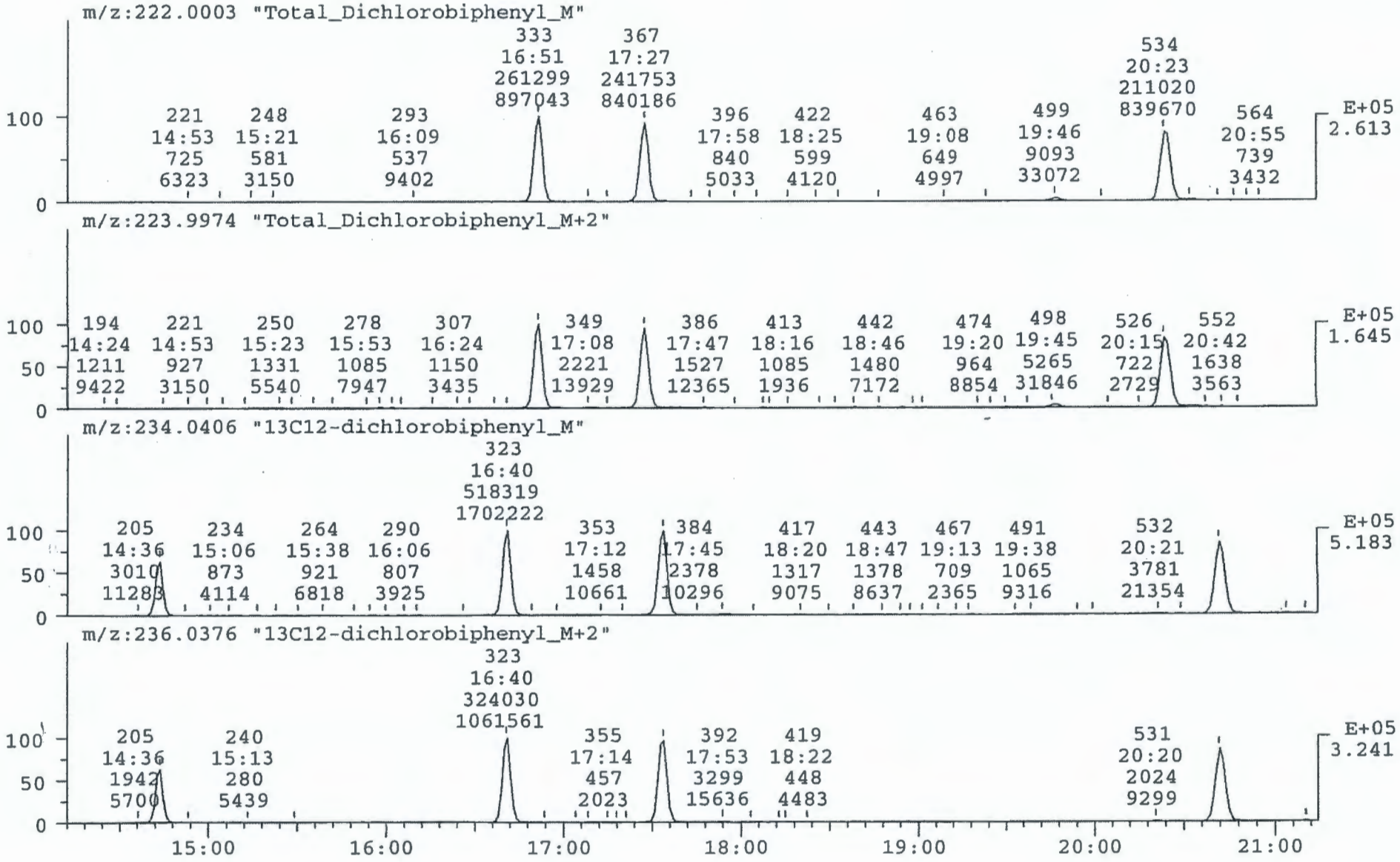


```
CHRO:  a07030722                                07-Mar-07   Elapse:  13:25.5      138
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

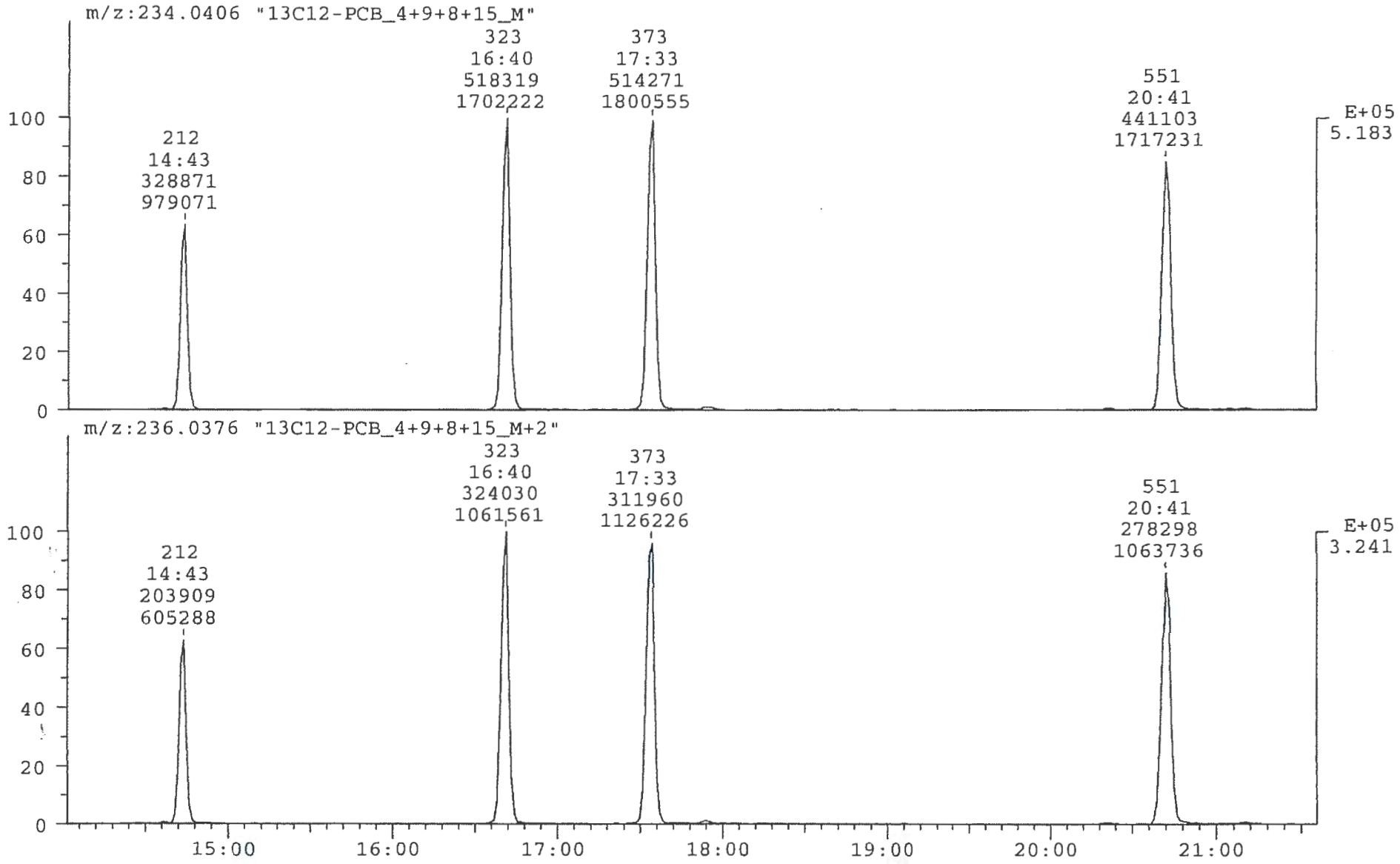


2107

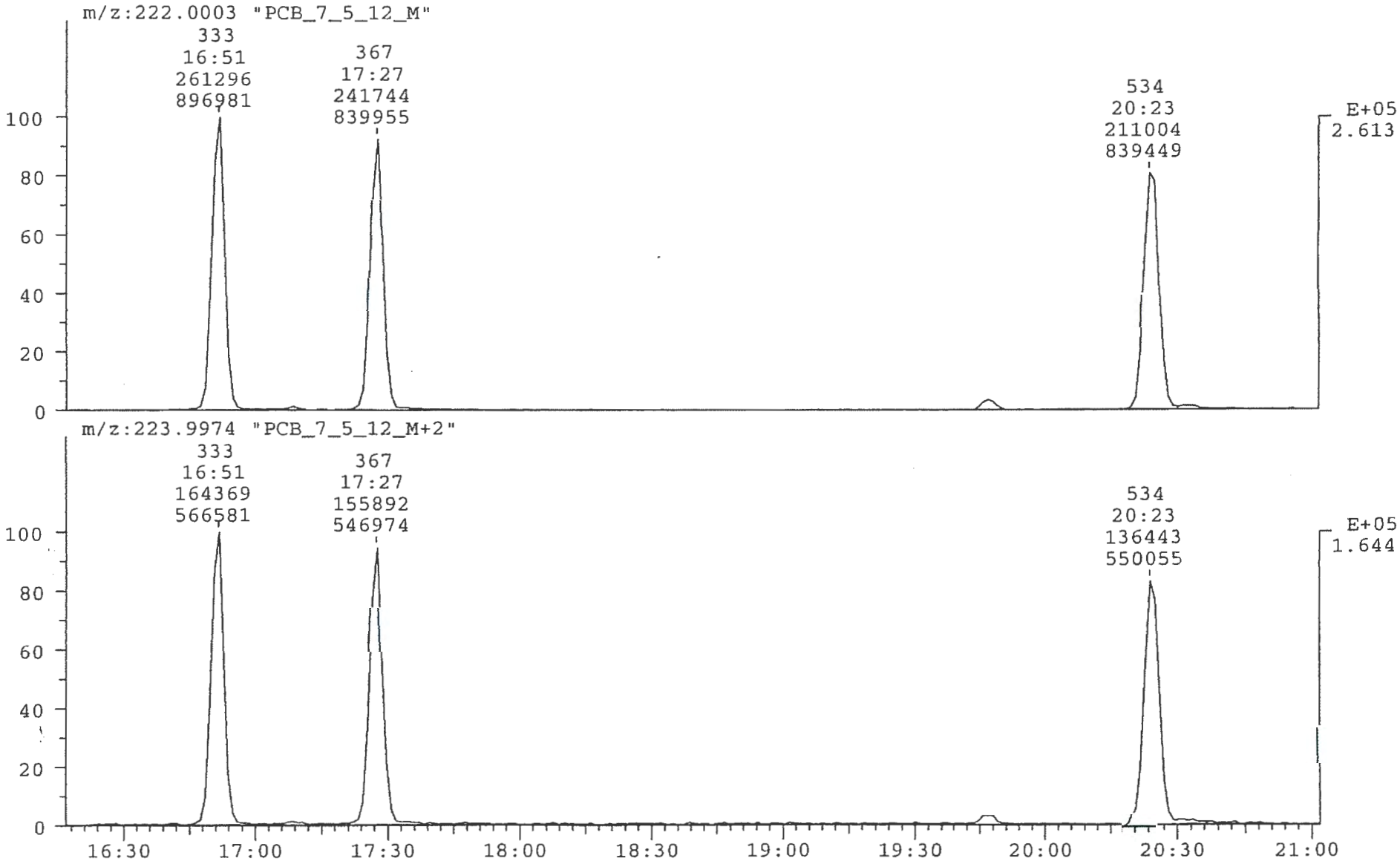
CHRO: a07030722 07-Mar-07 Elapse: 17:43.2 382
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



CHRO: a07030722 07-Mar-07 Elapse: 17:43.2 382
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 172 > 602 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

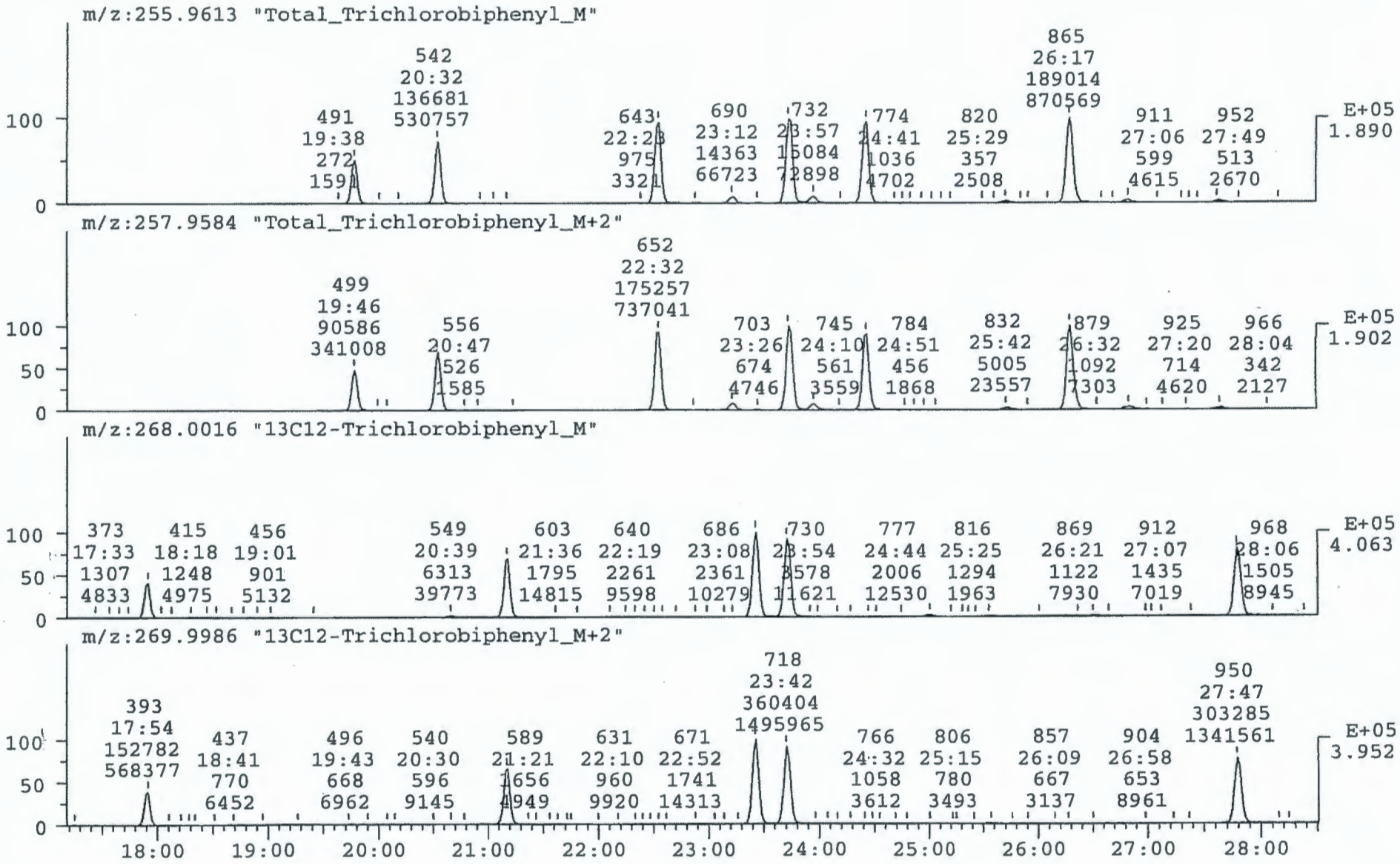


```
CHRO:  a07030722                                07-Mar-07   Elapse:  18:39.2      435
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   300 > 570             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

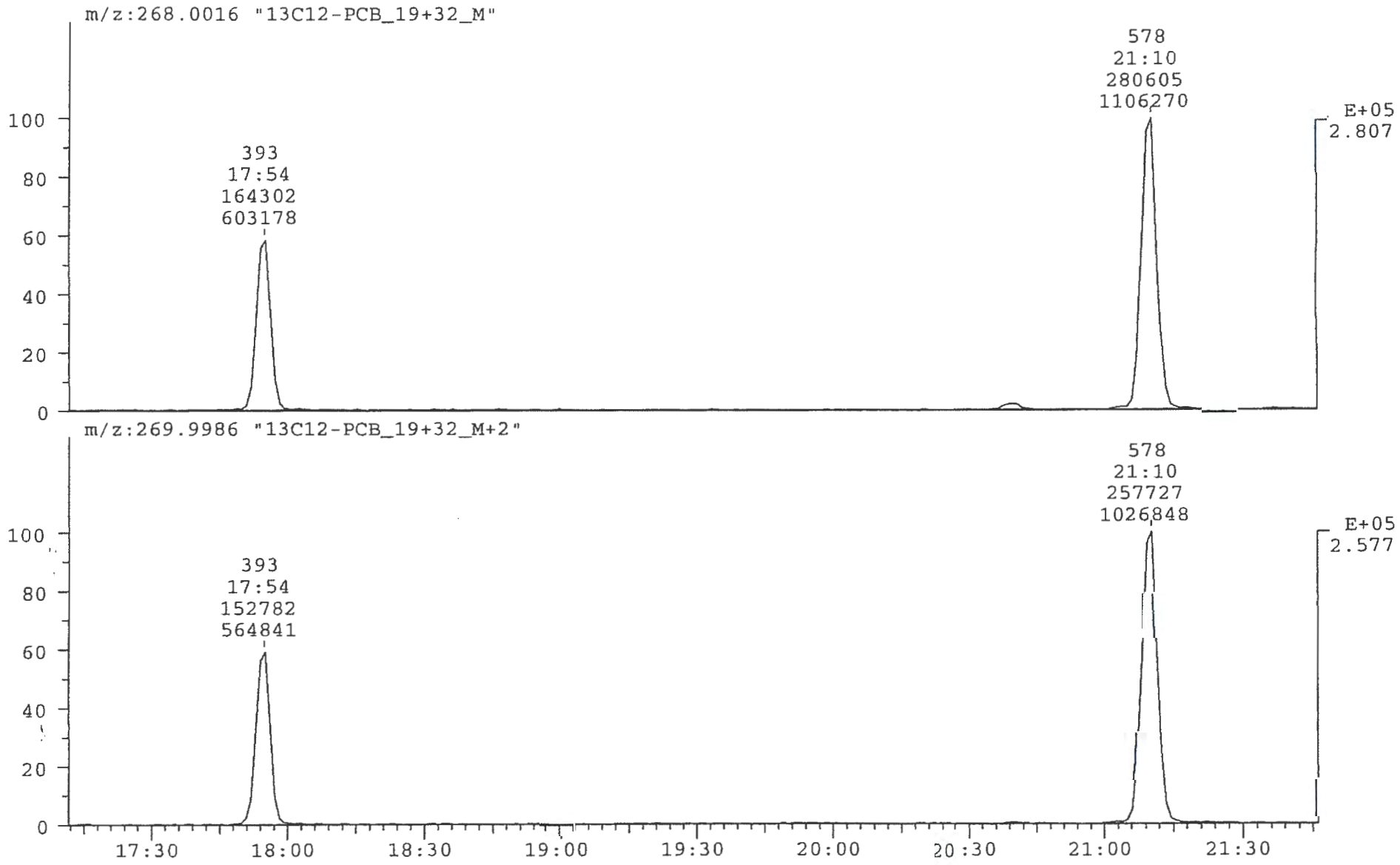


2110

CHRO: a07030722 07-Mar-07 Elapse: 22:52.6 671
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

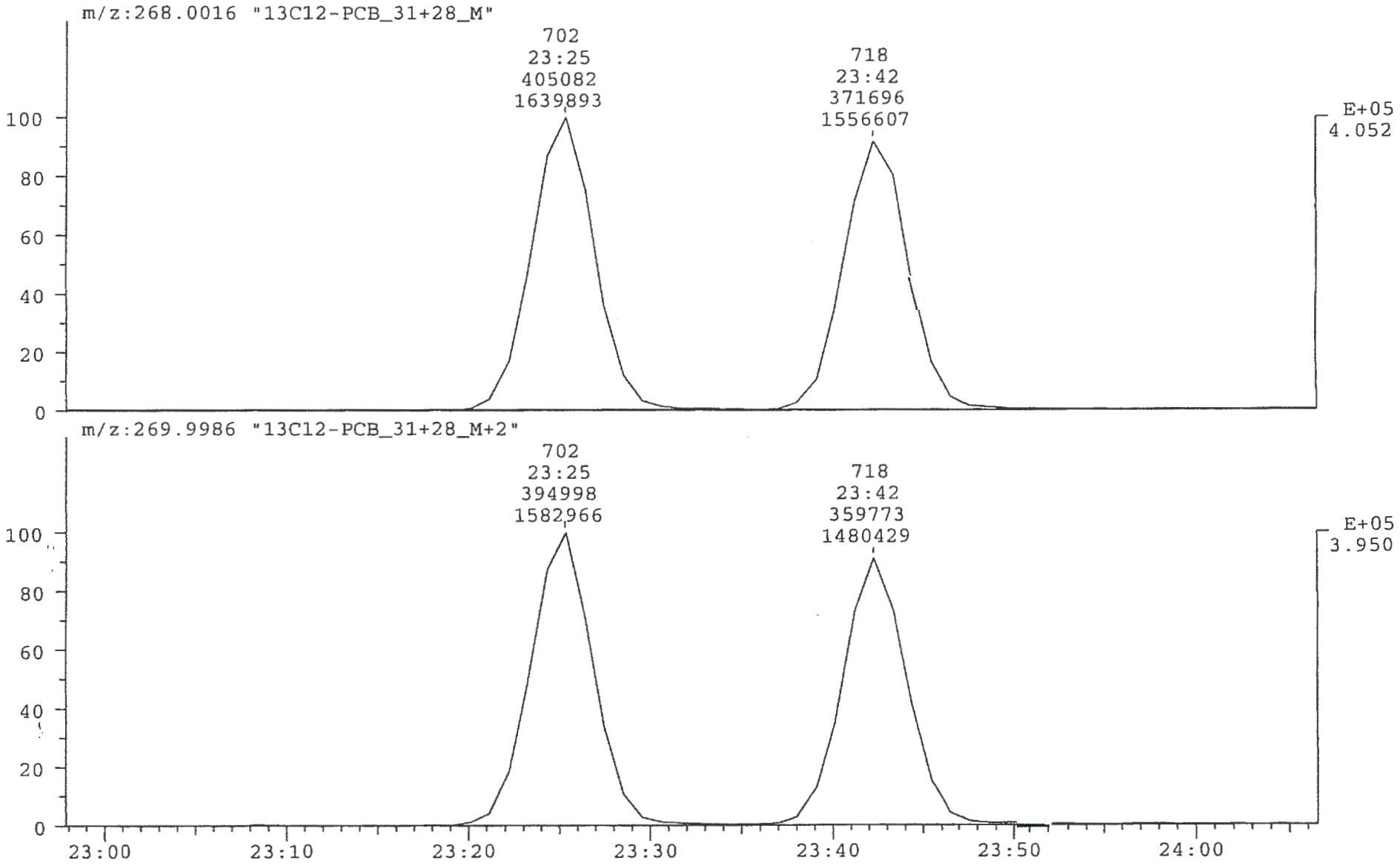


CHRO: a07030722 07-Mar-07 Elapse: 19:18.3 472
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 352 > 612 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area

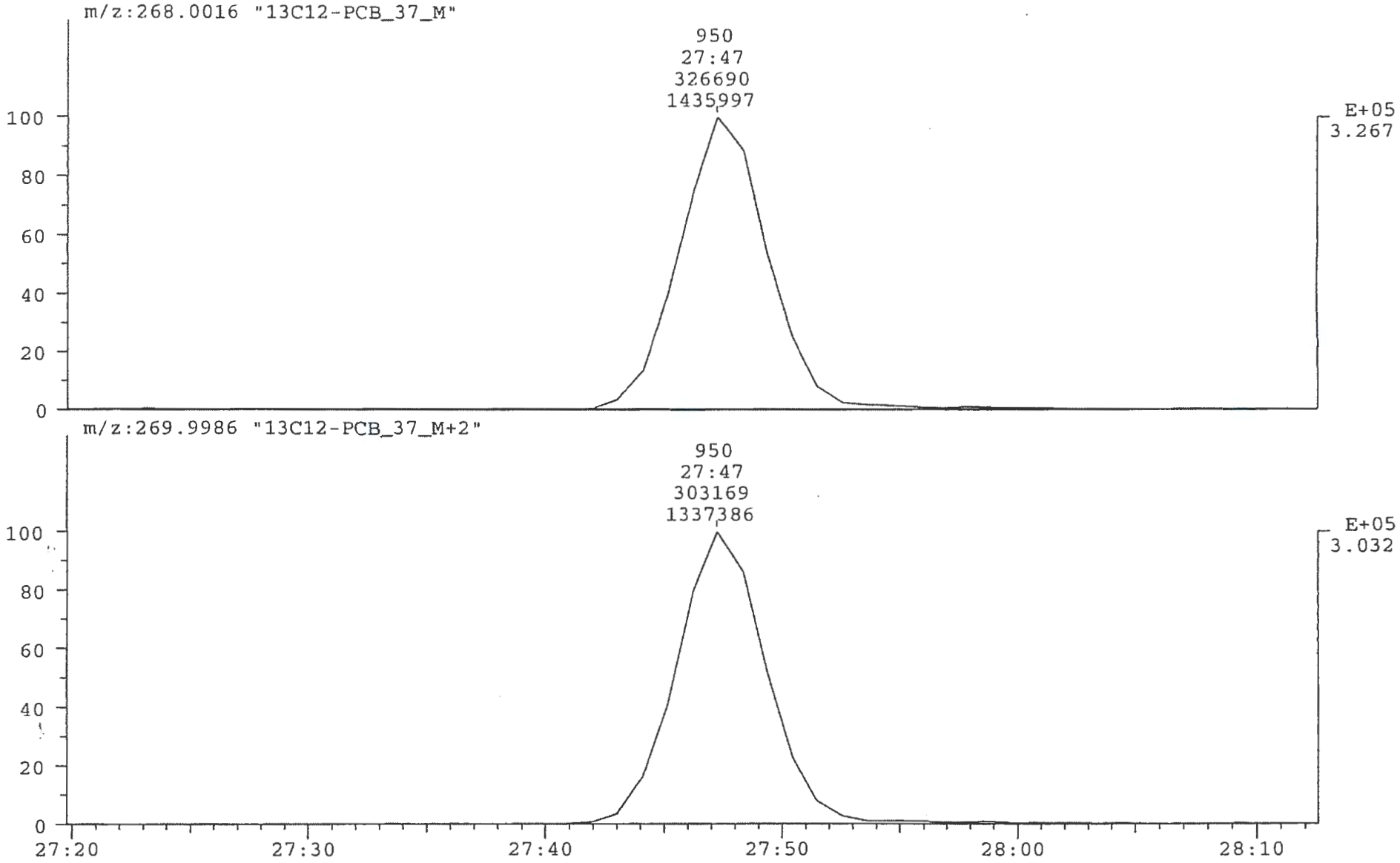


2112

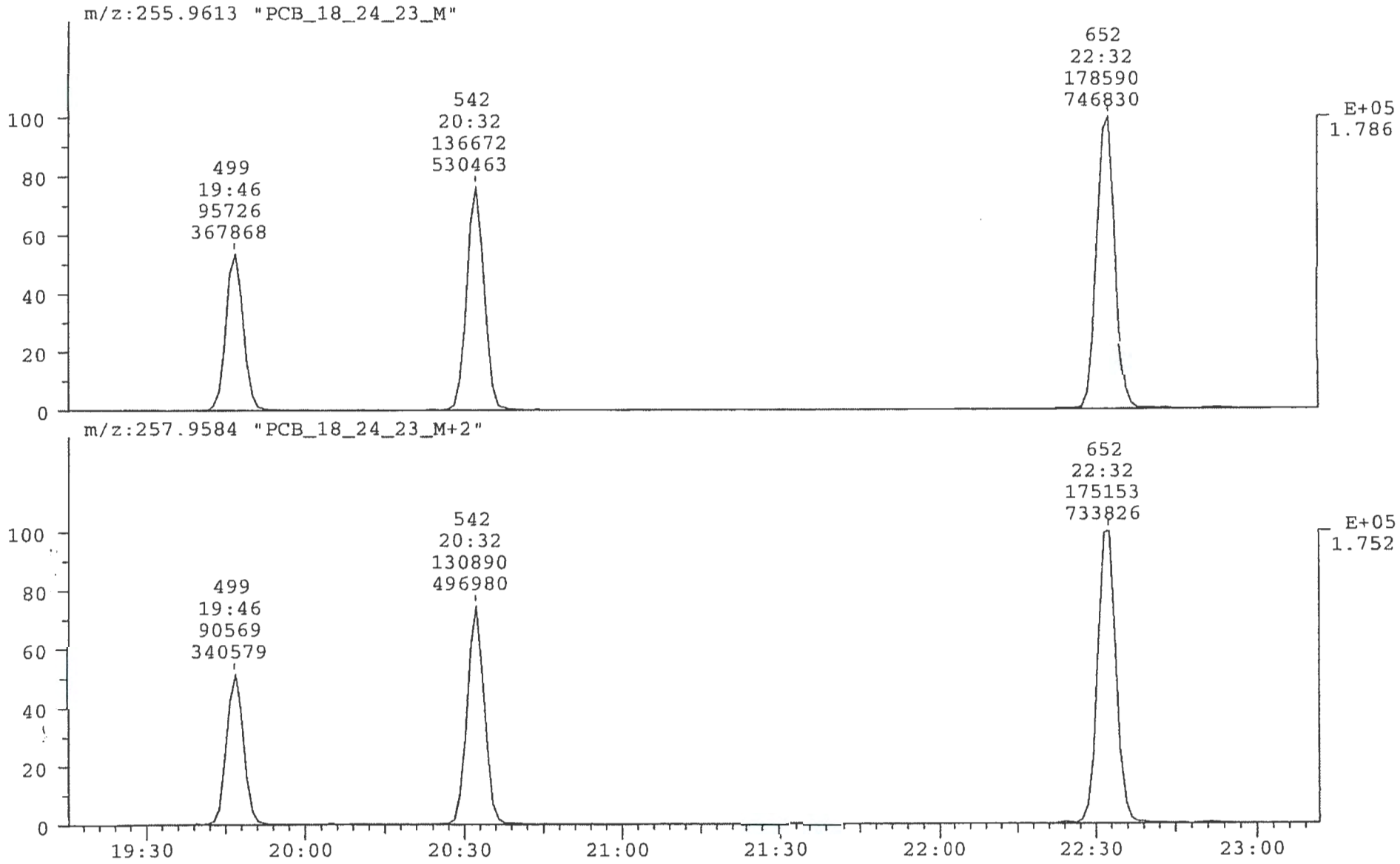
CHRO: a07030722 07-Mar-07 Elapse: 23:24.3 701
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 676 > 741 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030722                                07-Mar-07   Elapse:  27:46.2      949
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   924 > 974             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

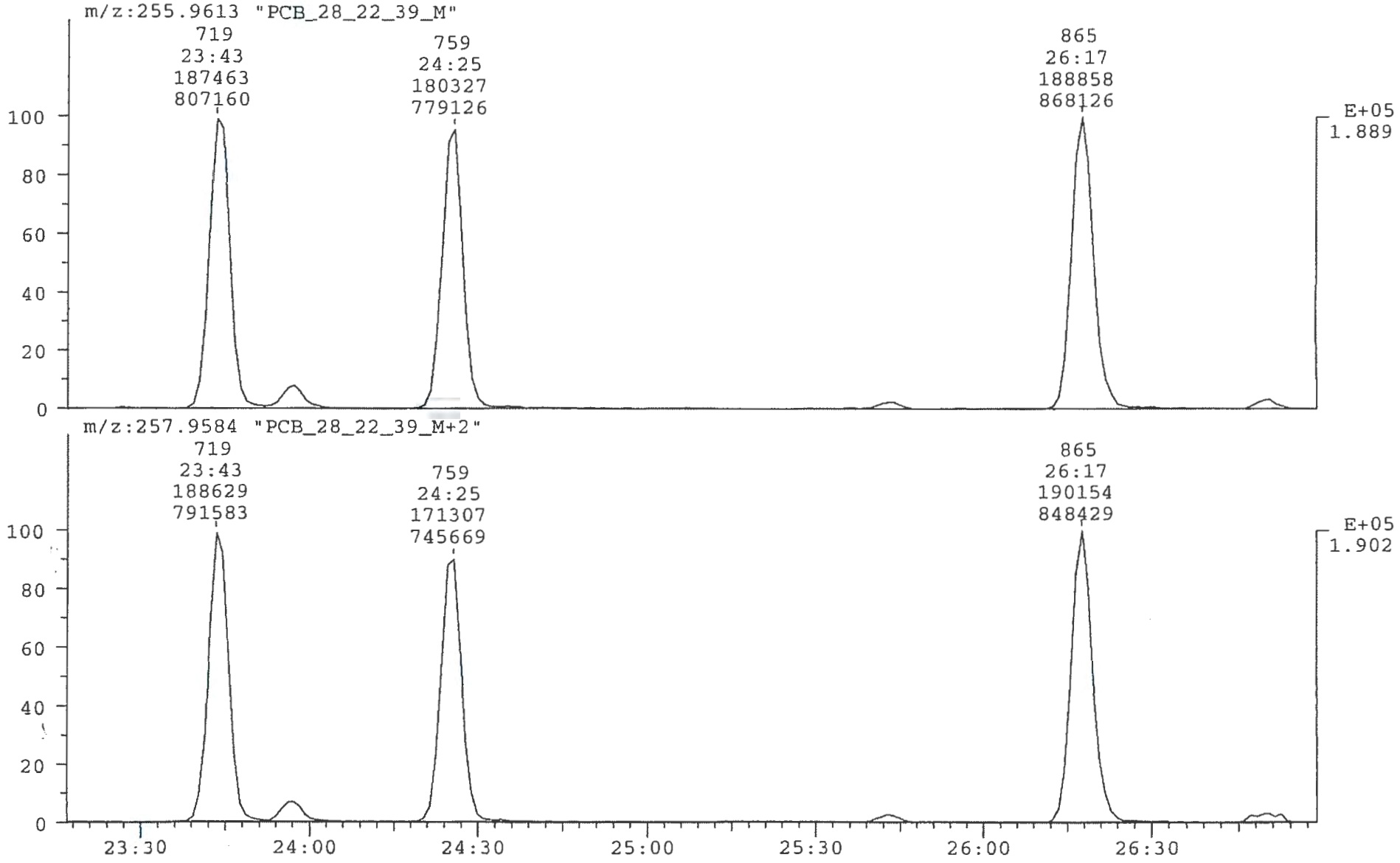


CHRO: a07030722 07-Mar-07 Elapse: 21:11.2 579
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 469 > 689 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

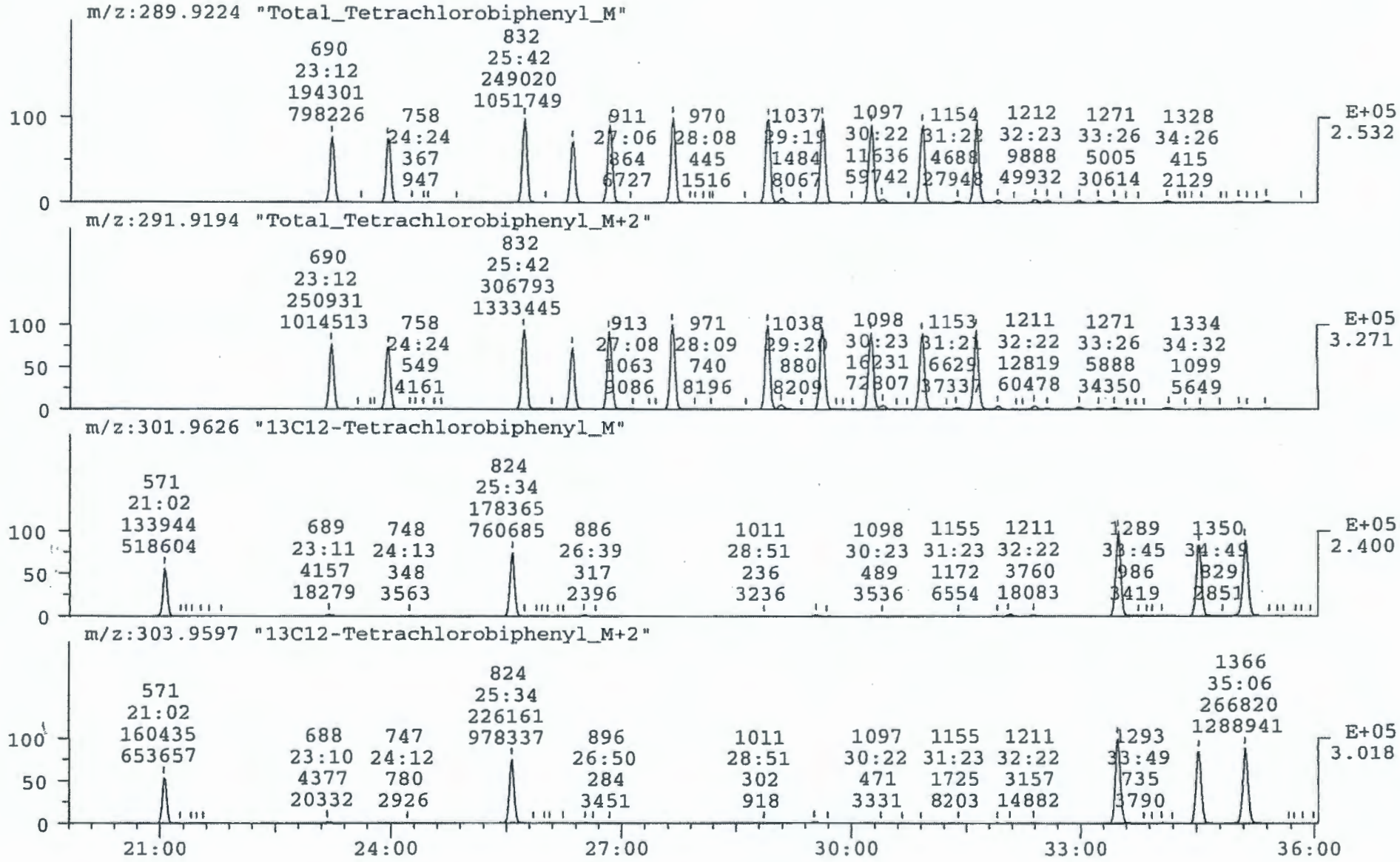


2115

```
CHRO:  a07030722                                07-Mar-07   Elapse:  25:02.4      794
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   694 > 904             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

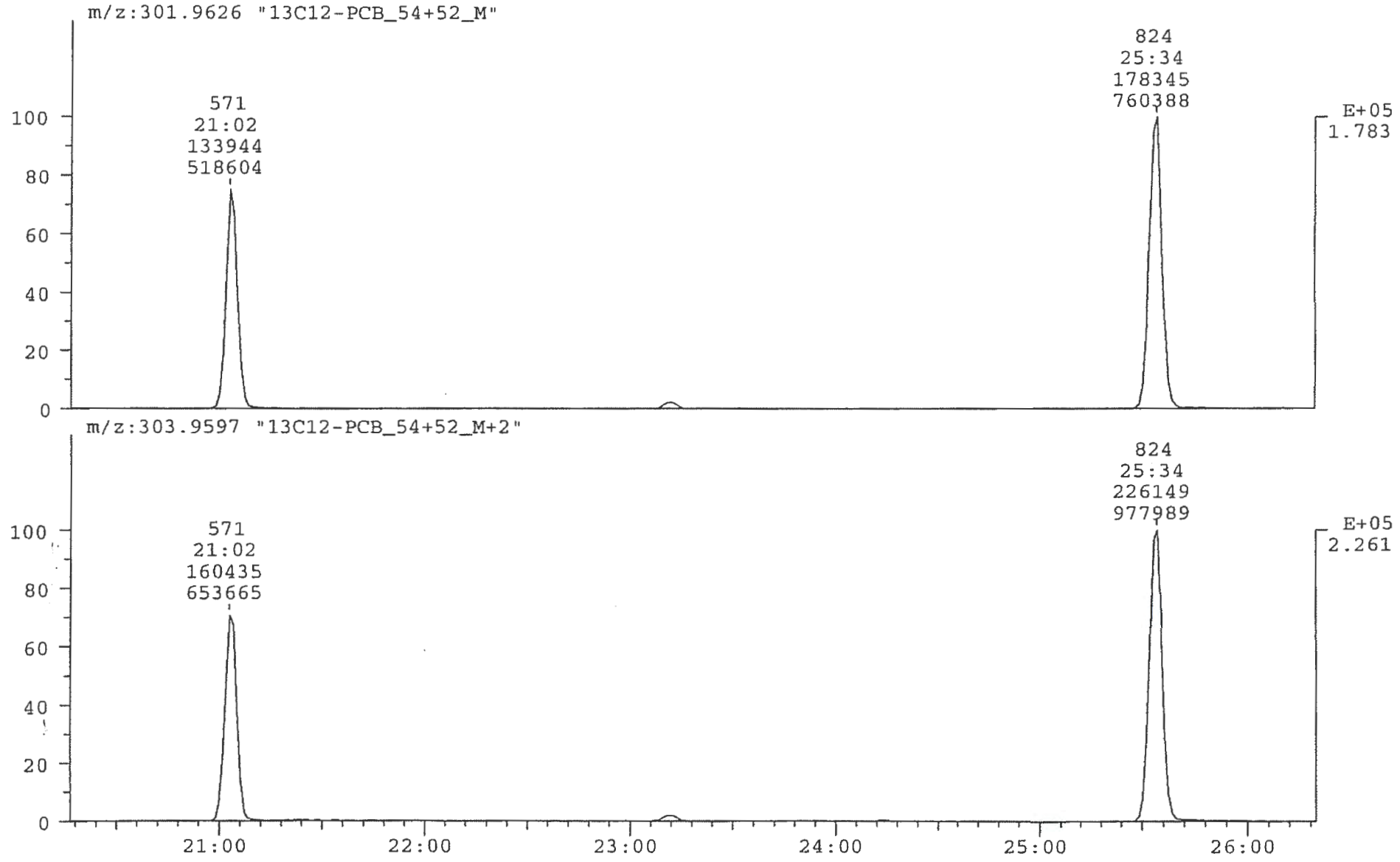


CHRO: a07030722 07-Mar-07 Elapse: 27:54.7 957
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 500 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

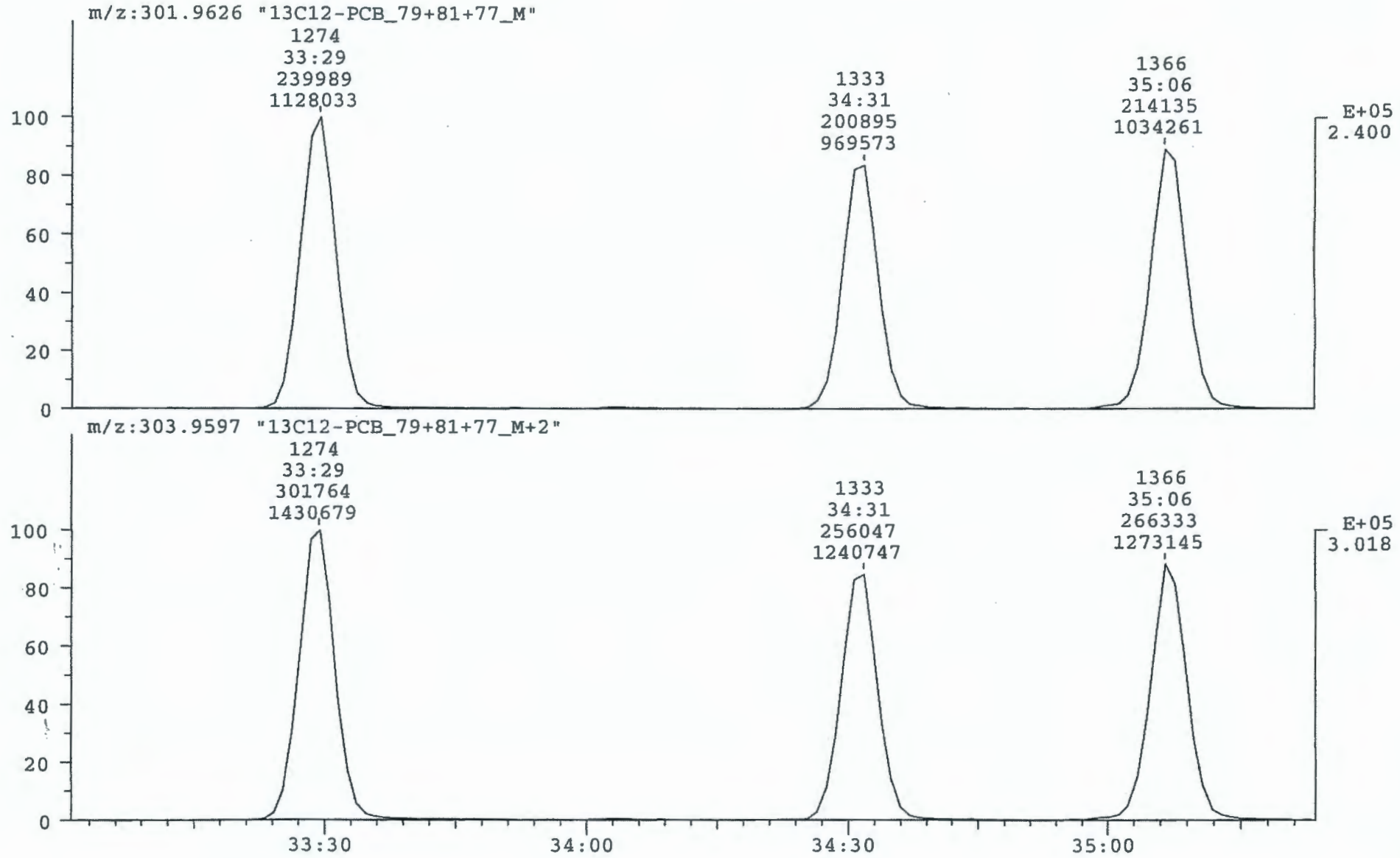


2117

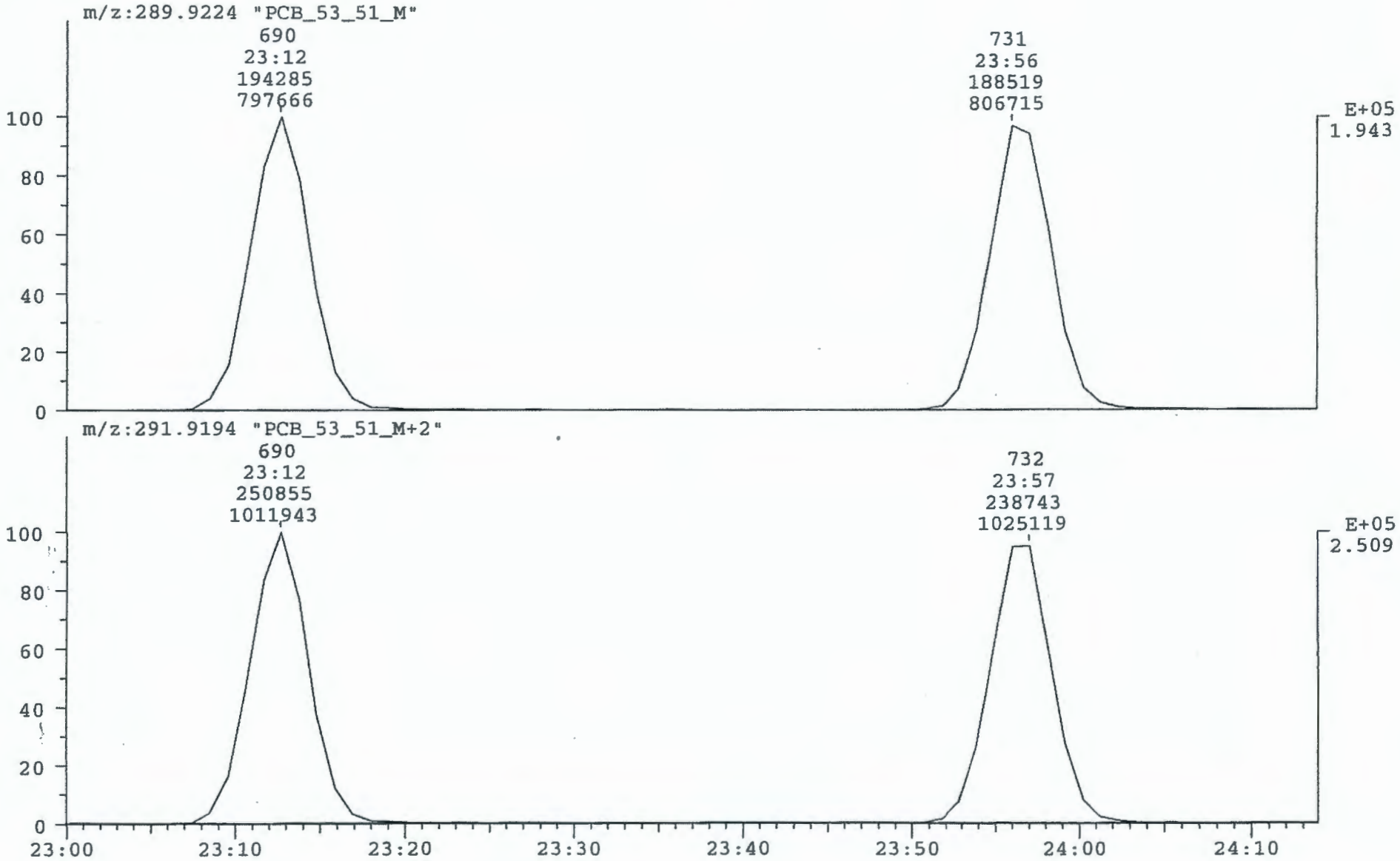
```
CHRO:  a07030722                                07-Mar-07   Elapse:  23:20.1      697
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



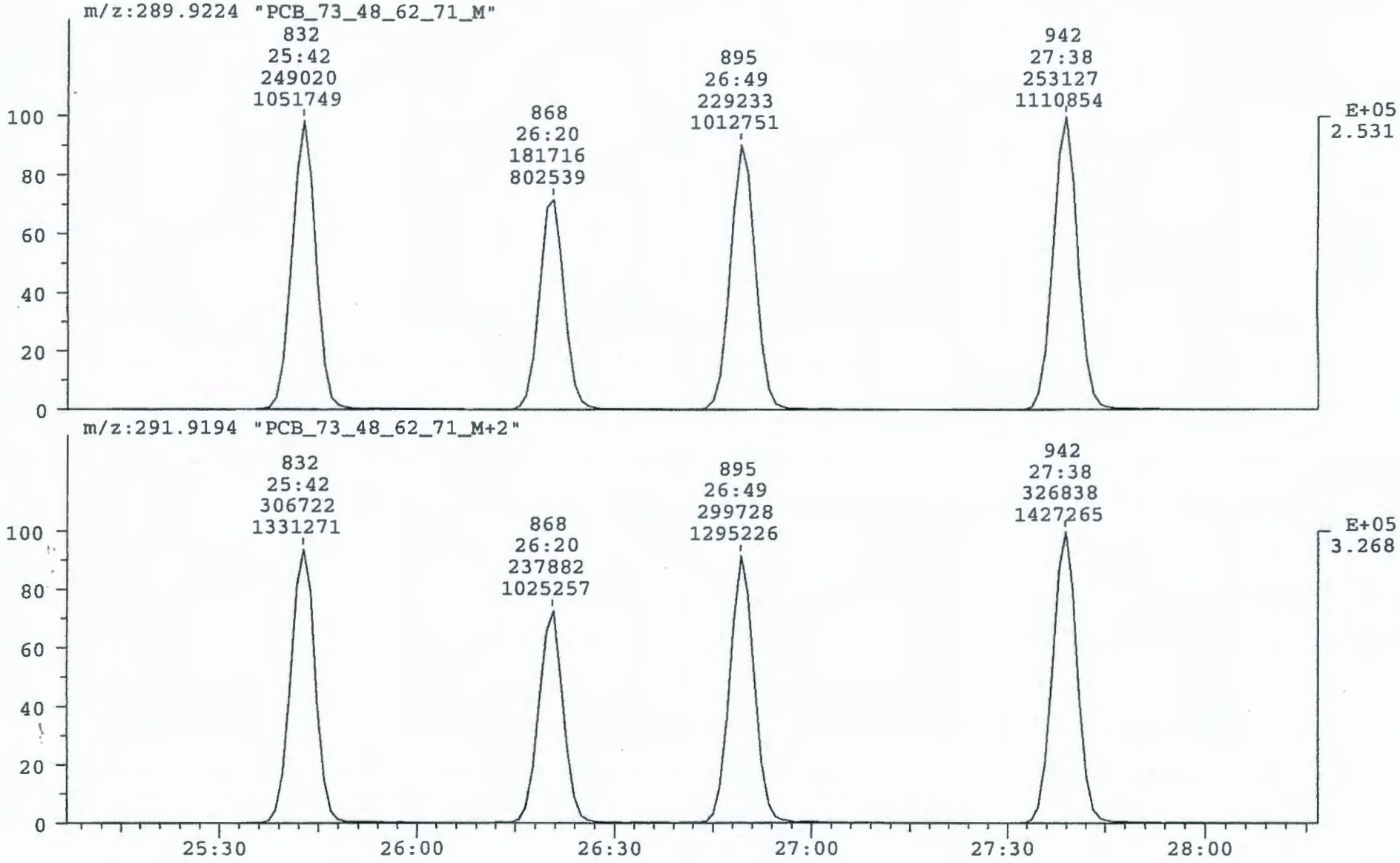
```
CHRO:  a07030722                                07-Mar-07   Elapse:  34:14      1317
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1247 > 1382           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



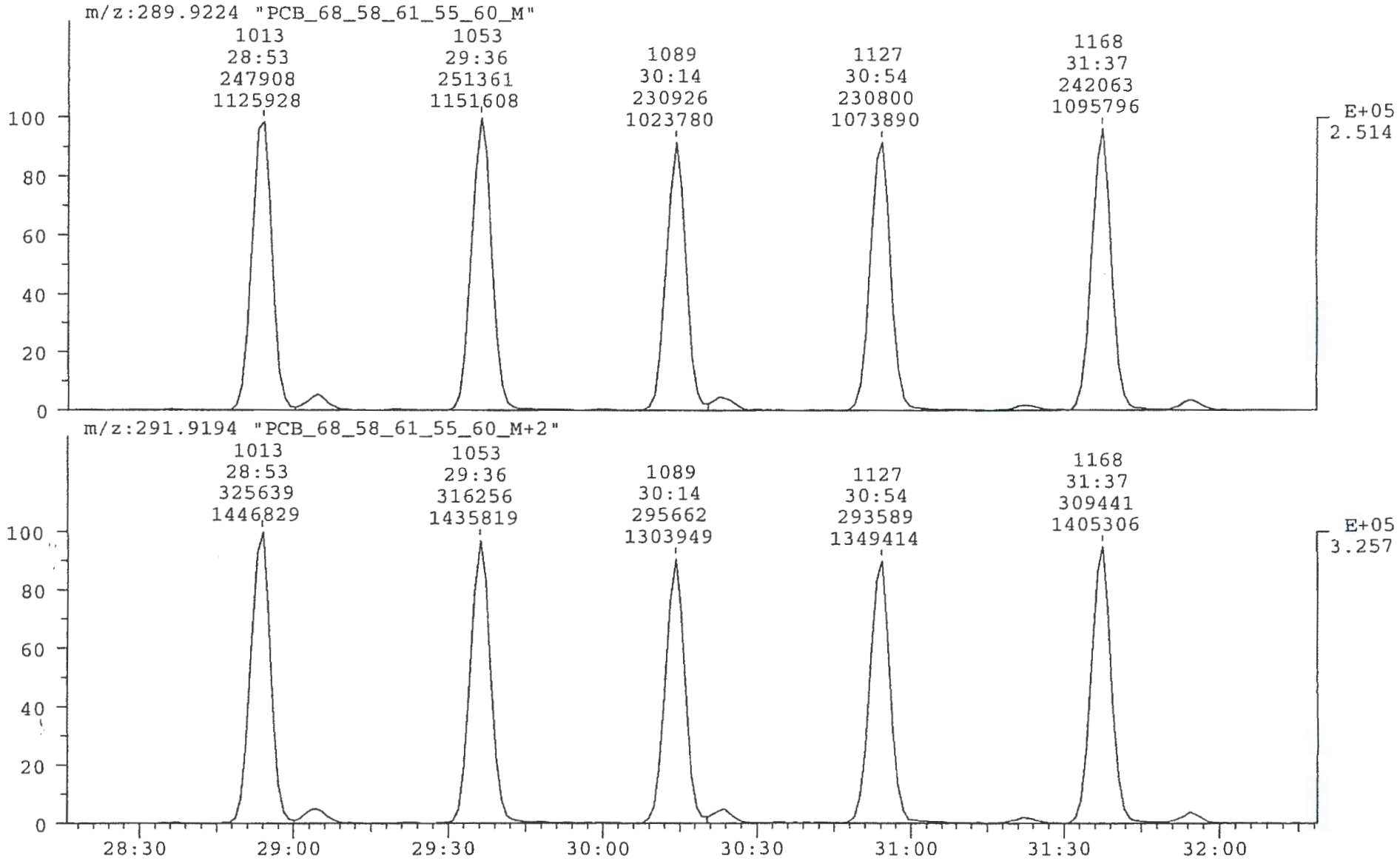
```
CHRO:  a07030722                                07-Mar-07   Elapse:  23:42.2      718
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   678 > 748             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



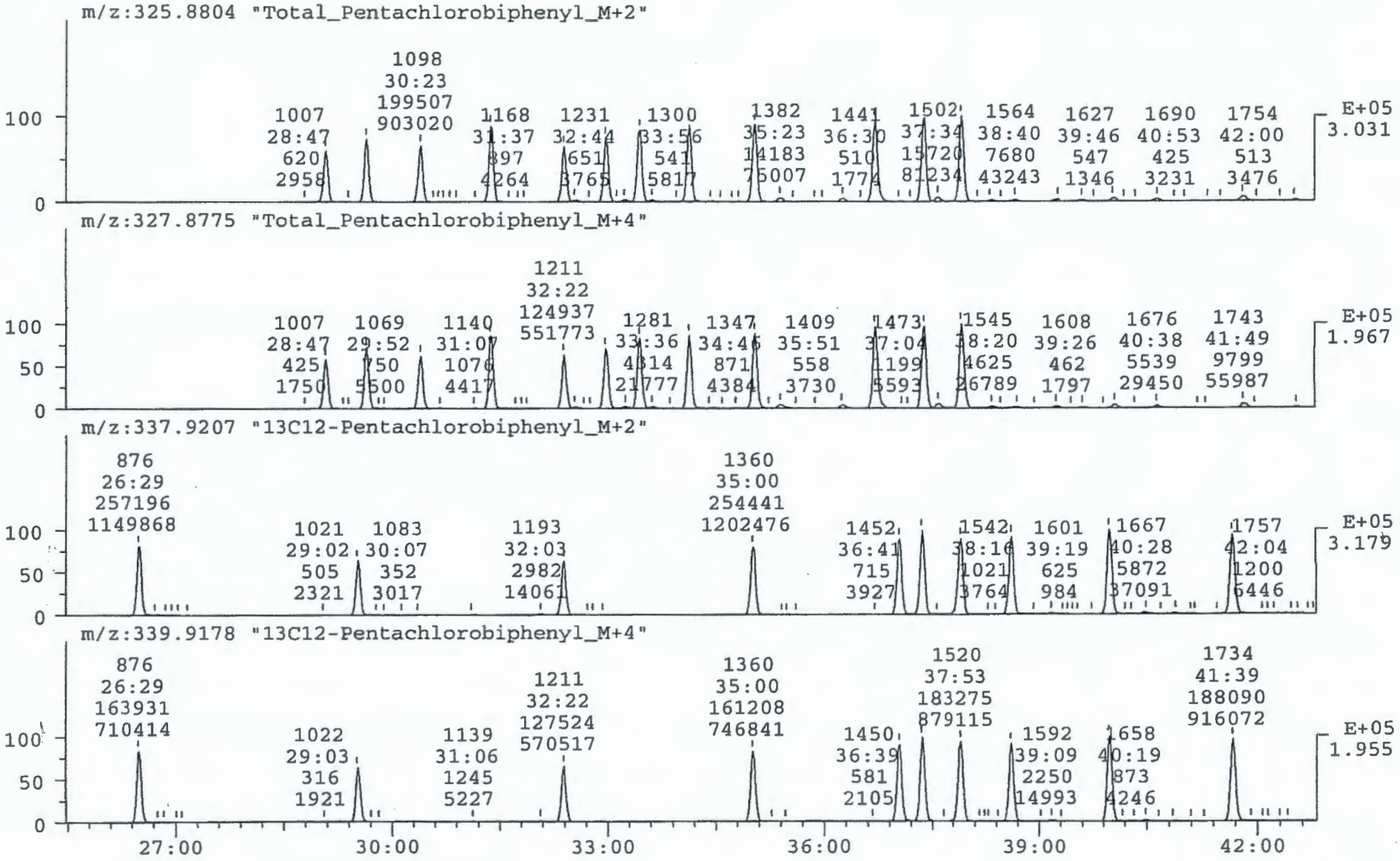
```
CHRO:  a07030722                                07-Mar-07   Elapse:  26:41.7      888
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   798 > 978             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



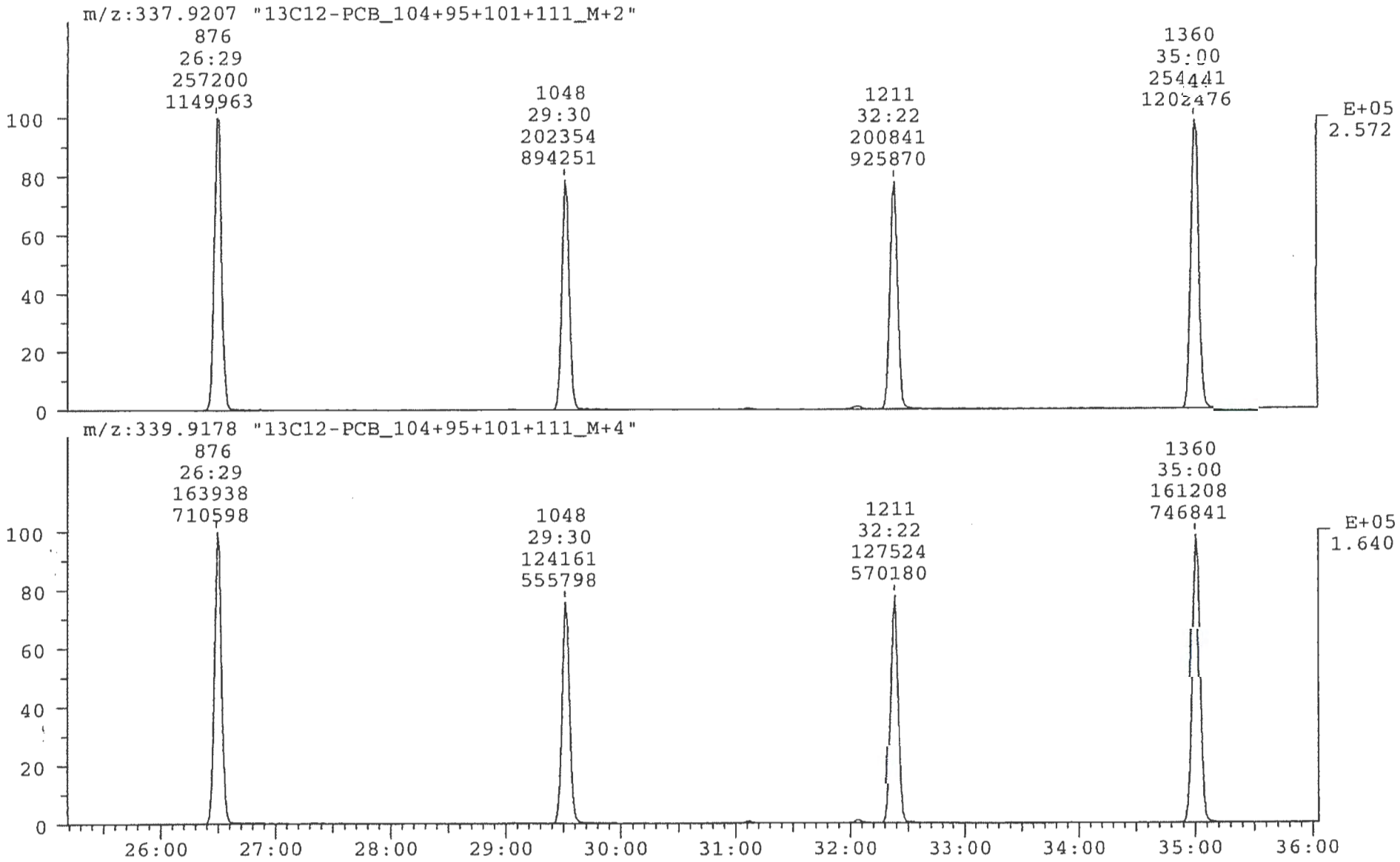
```
CHRO:  a07030722                                07-Mar-07   Elapse:  30:17      1092
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   977 > 1207            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



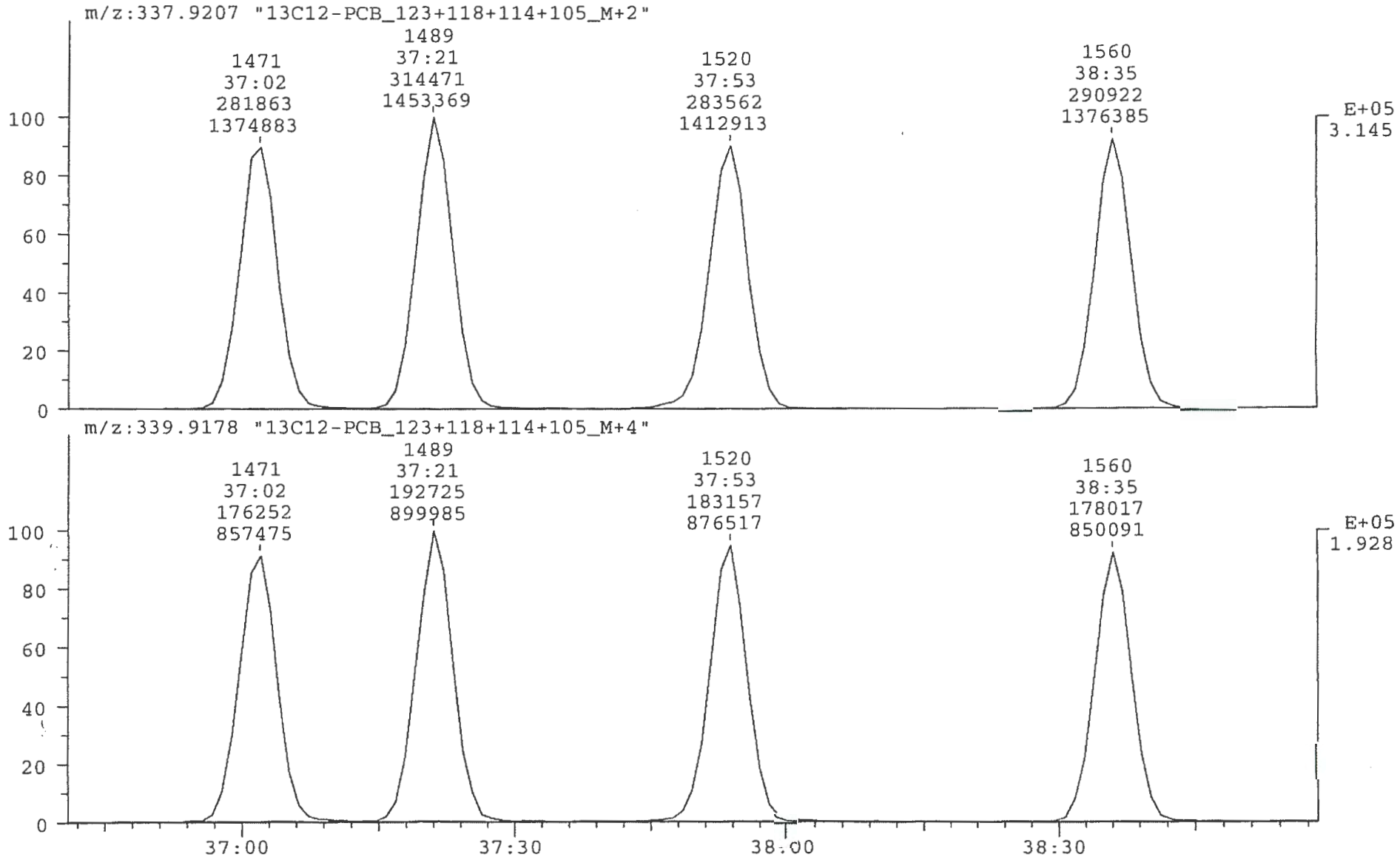
CHRO: a07030722 07-Mar-07 Elapse: 34:08 1311
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 818 > 1799 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



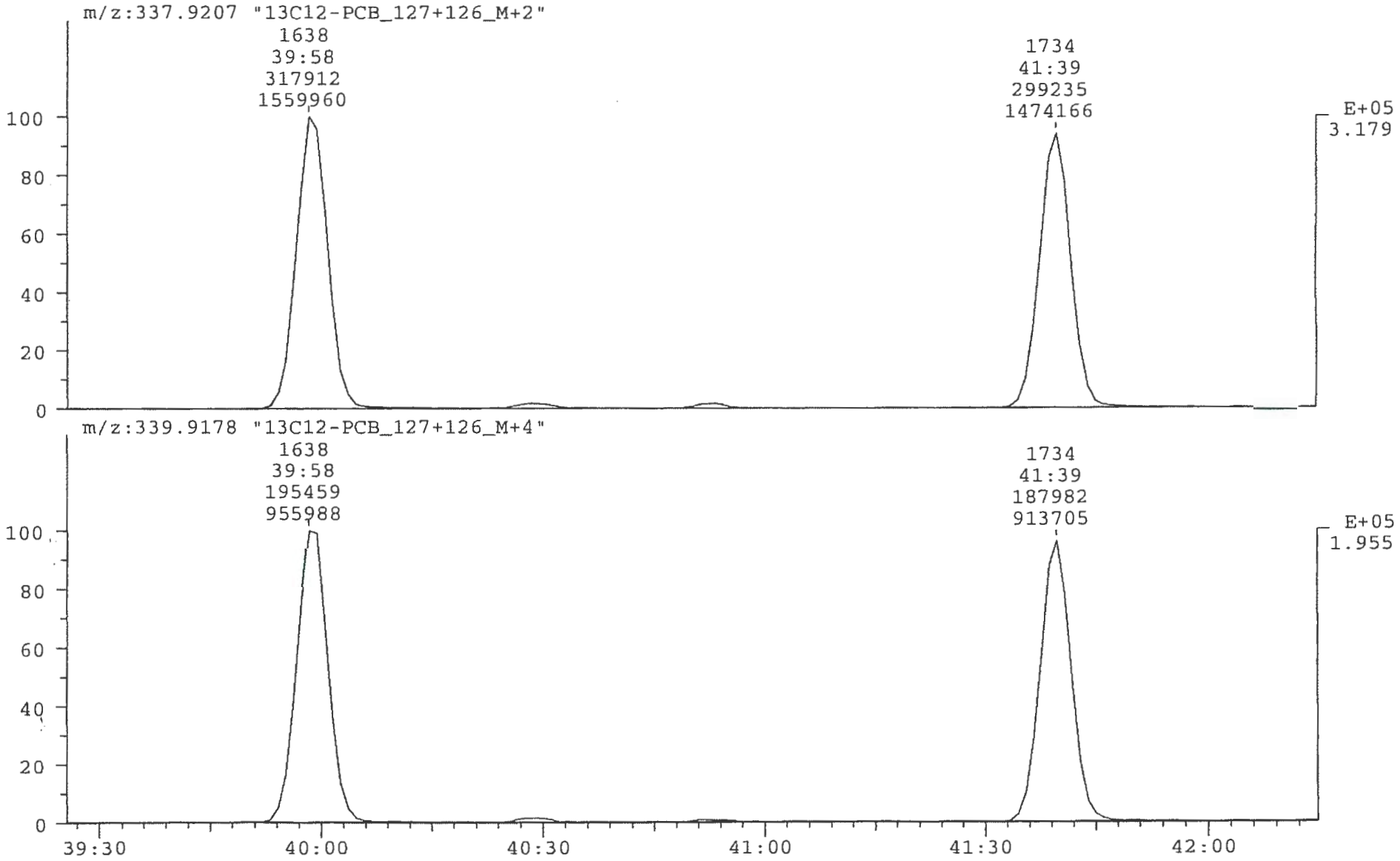
```
CHRO:  a07030722                                07-Mar-07   Elapse:  30:37      1111
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   802 > 1420            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



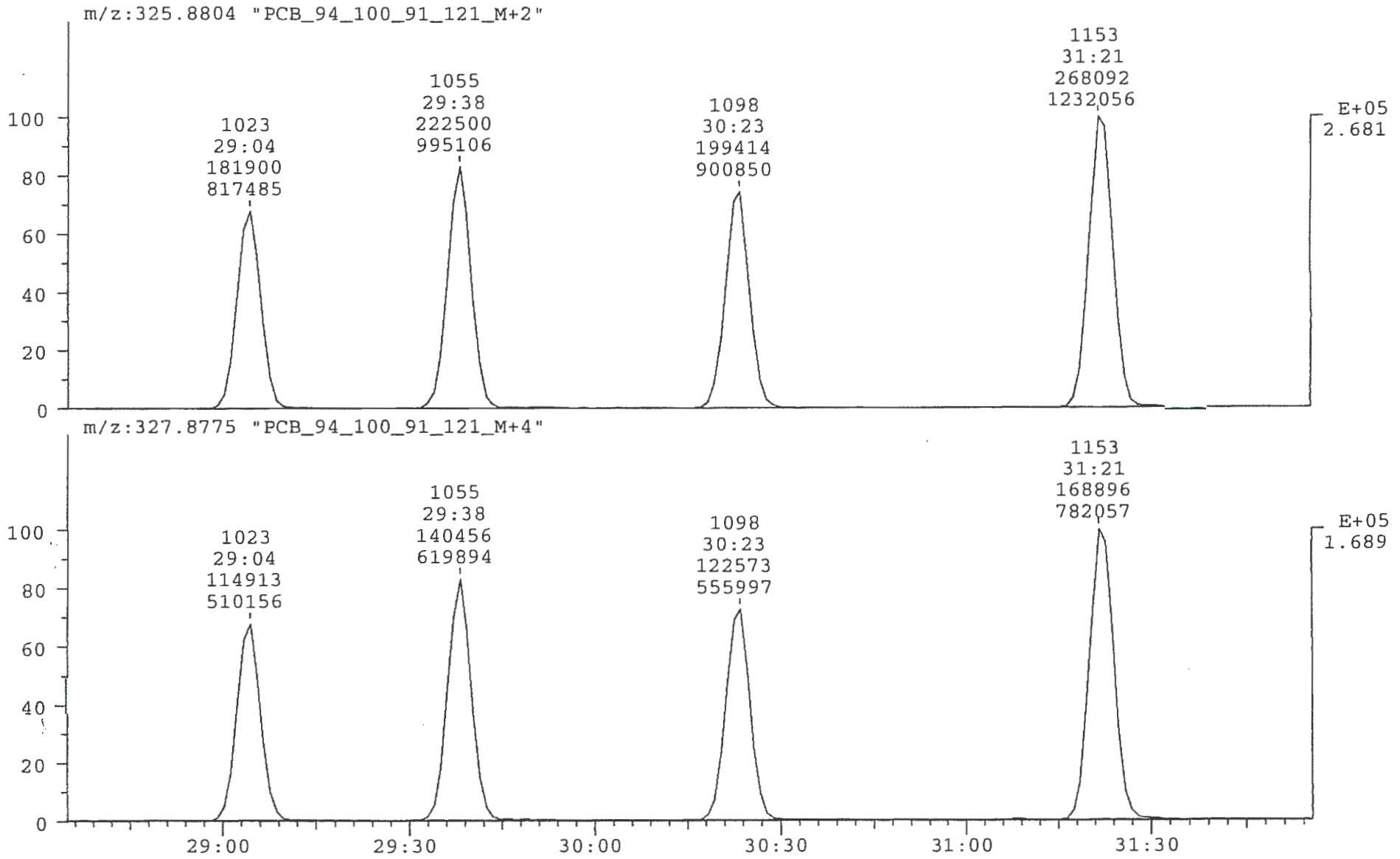
```
CHRO:  a07030722                                07-Mar-07   Elapse:  37:49      1516
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1451 > 1581           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030722                              07-Mar-07   Elapse:  40:50      1687
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1607 > 1767         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

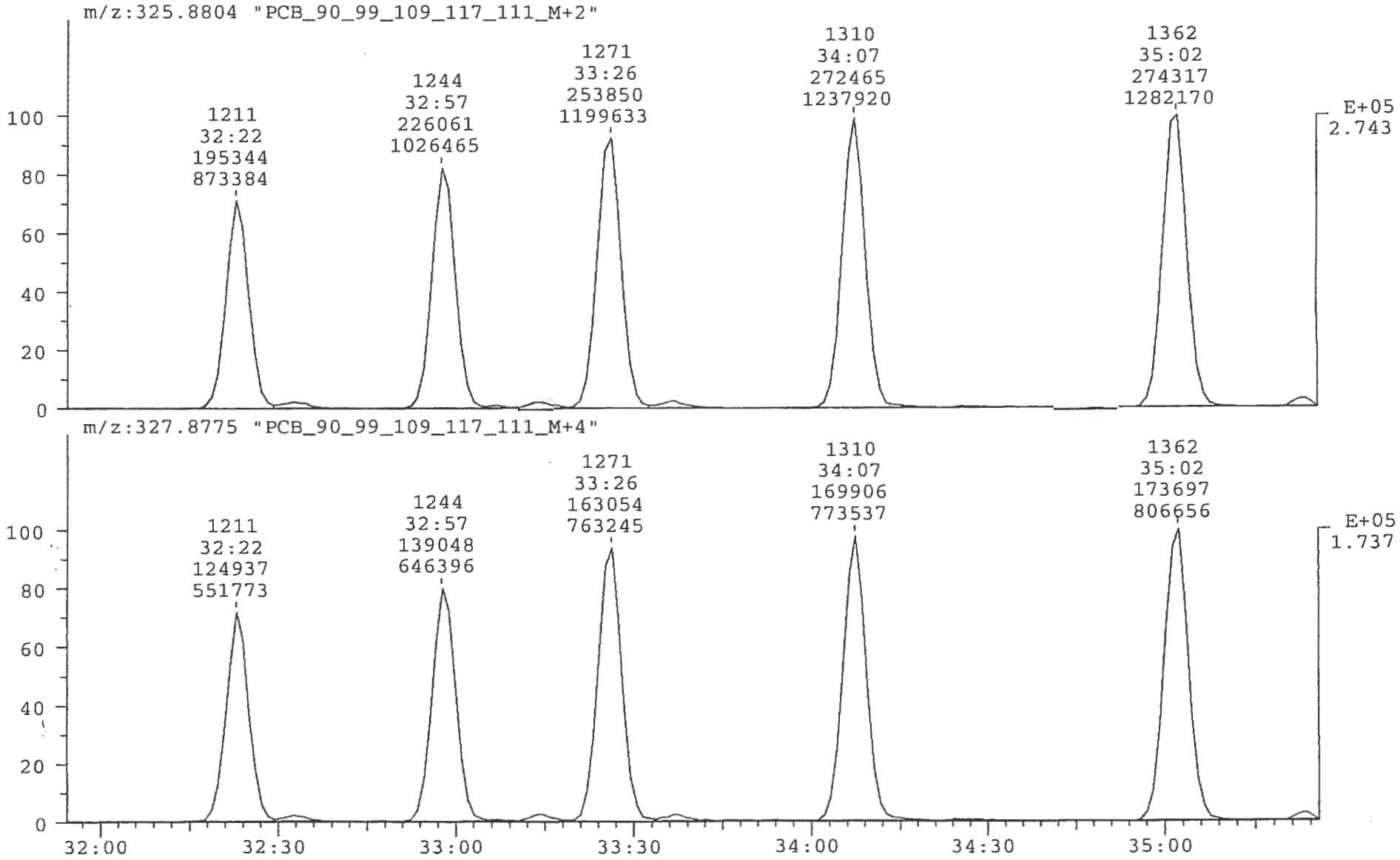


CHRO: a07030722 07-Mar-07 Elapse: 30:15 1090
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 995 > 1185 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



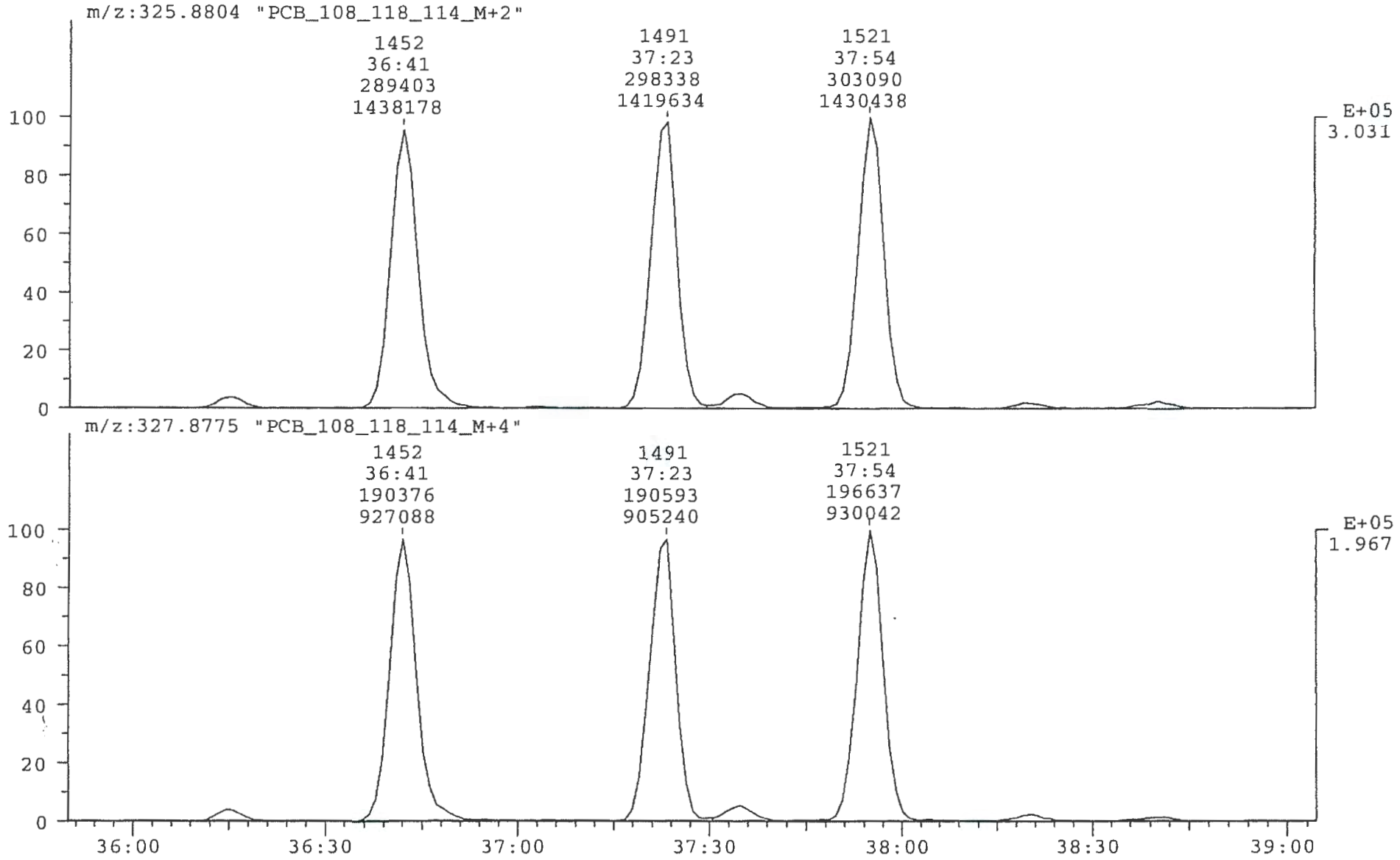
2127

```
CHRO:  a07030722                                07-Mar-07   Elapse:  33:39      1284
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1184 > 1384           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

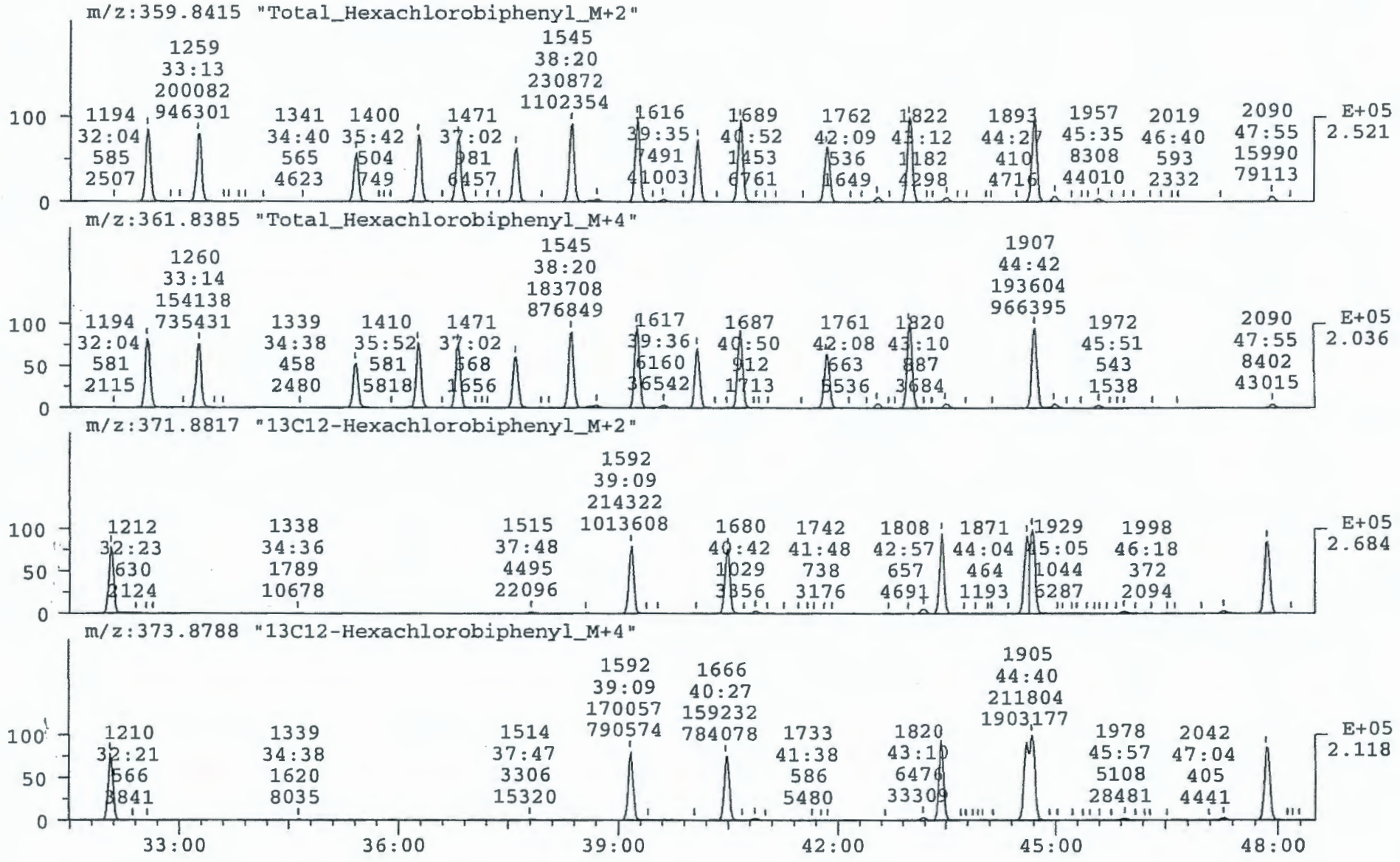


2128

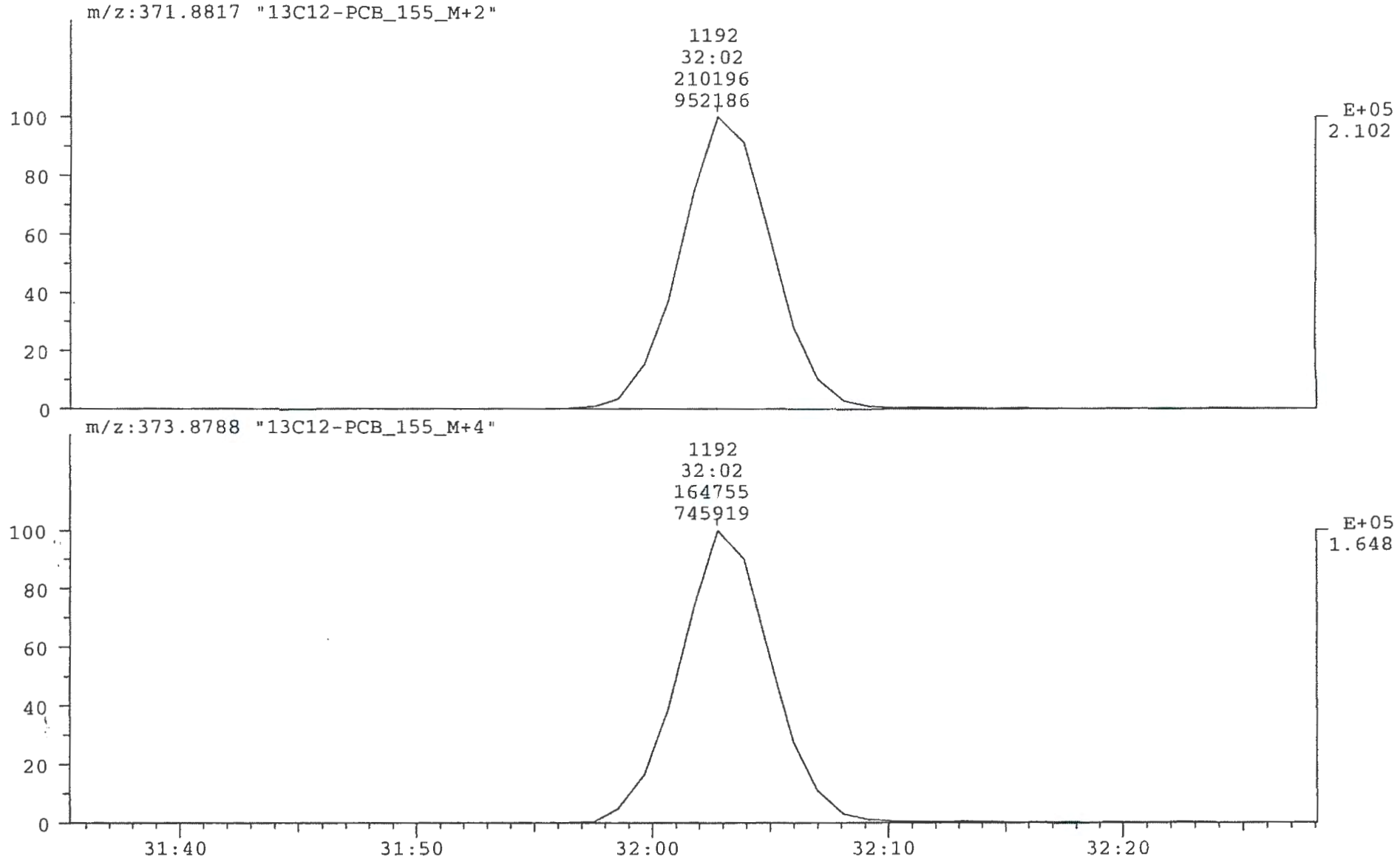
```
CHRO:  a07030722                                07-Mar-07   Elapse:  37:29      1497
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1407 > 1587           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



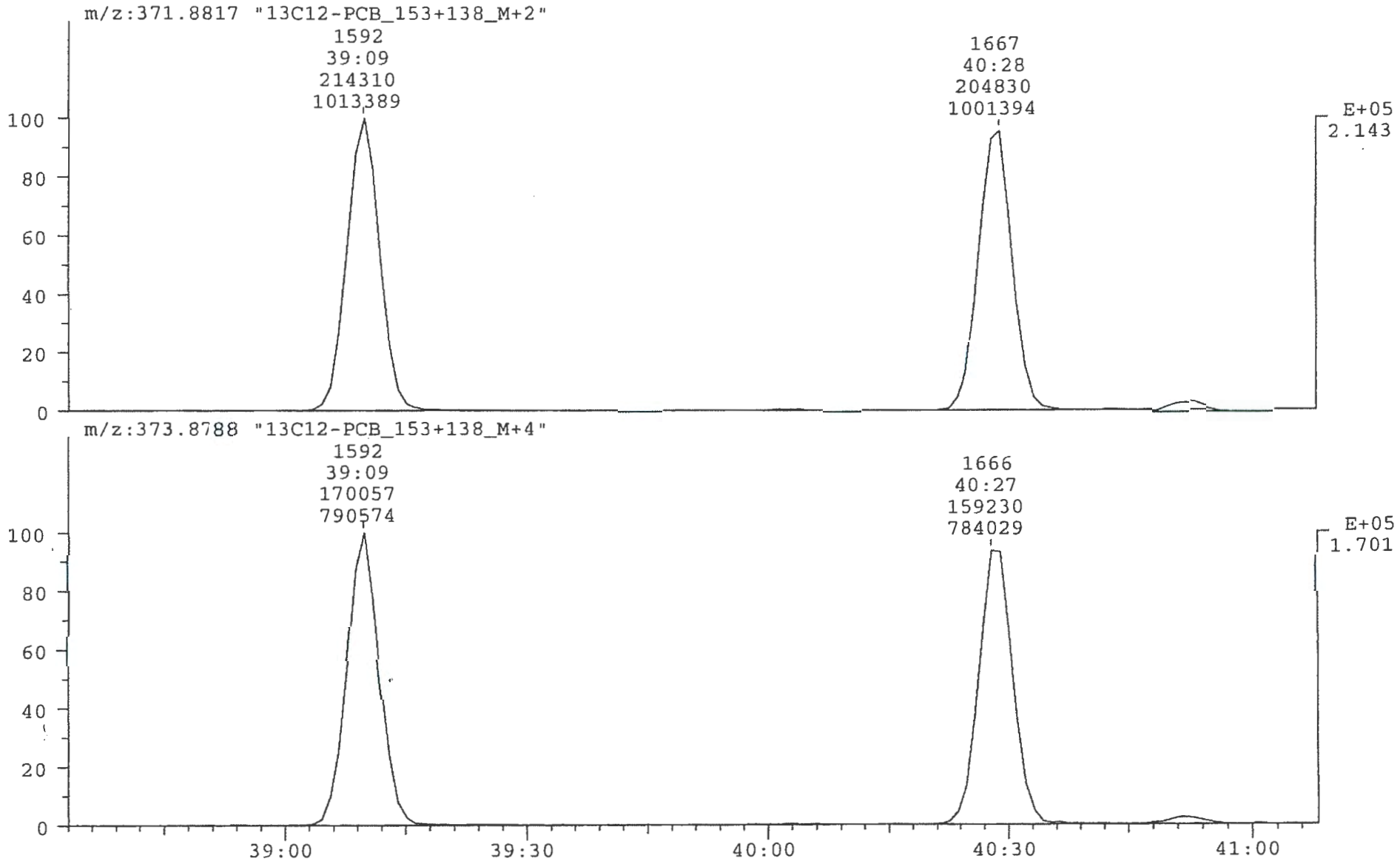
```
CHRO:  a07030722                                07-Mar-07   Elapse:  39:59      1639
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1160 > 2123           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



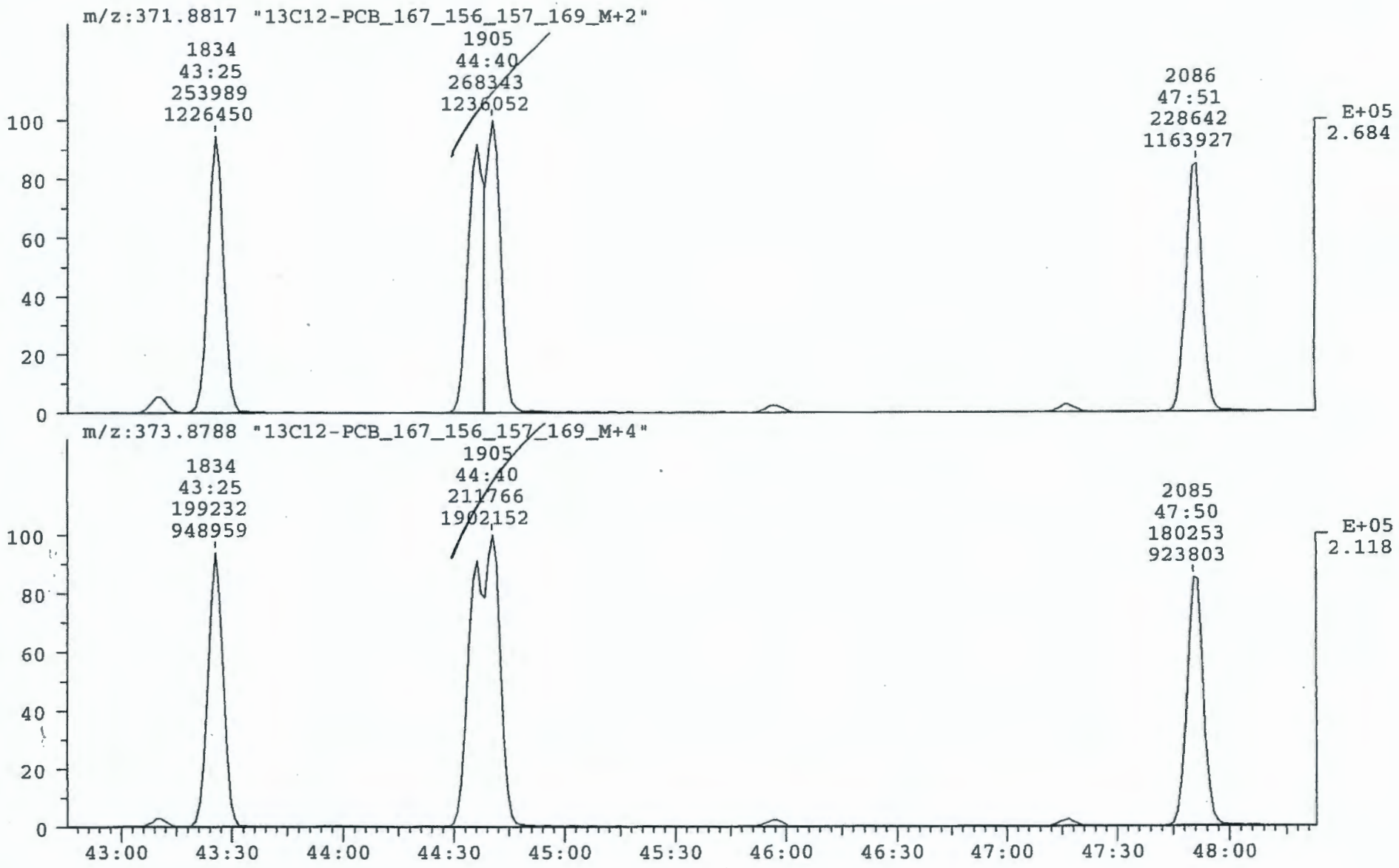
```
CHRO:  a07030722                                07-Mar-07   Elapse:  32:01      1191
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1166 > 1216           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



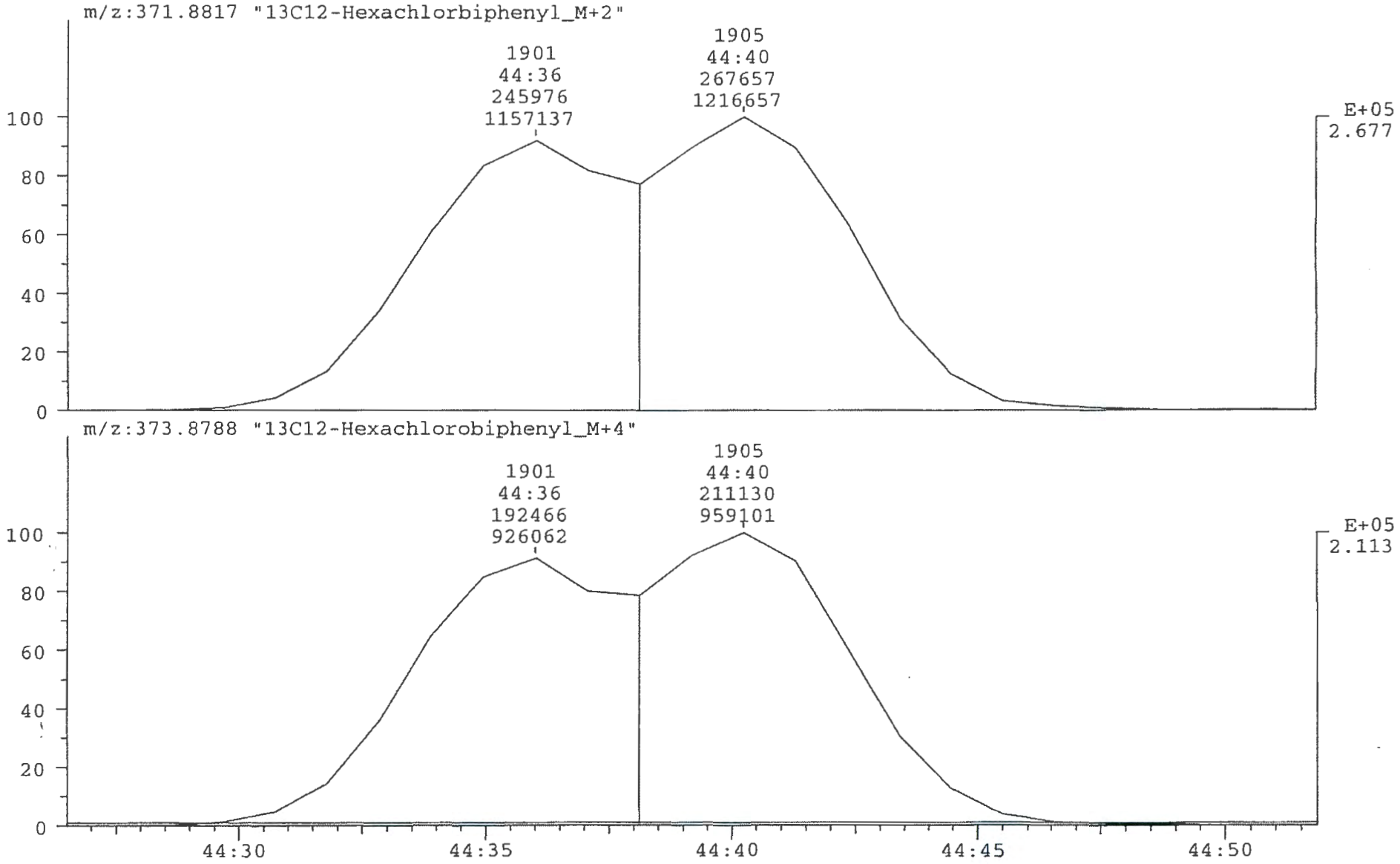
```
CHRO:  a07030722                                07-Mar-07   Elapse:  39:49      1630
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1557 > 1704           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



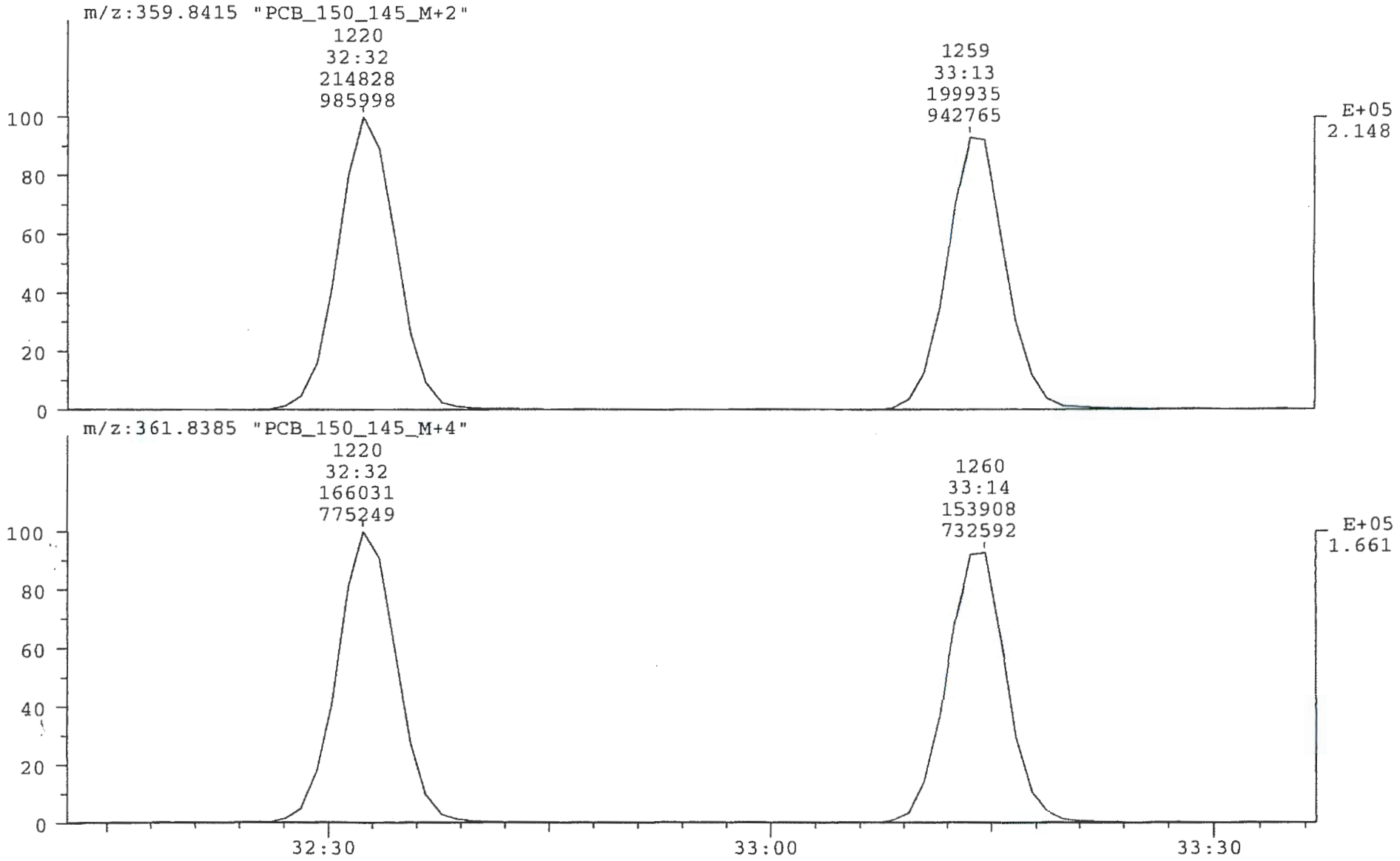
CHRO: a07030722 07-Mar-07 Elapse: 45:39 1961
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1796 > 2116 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



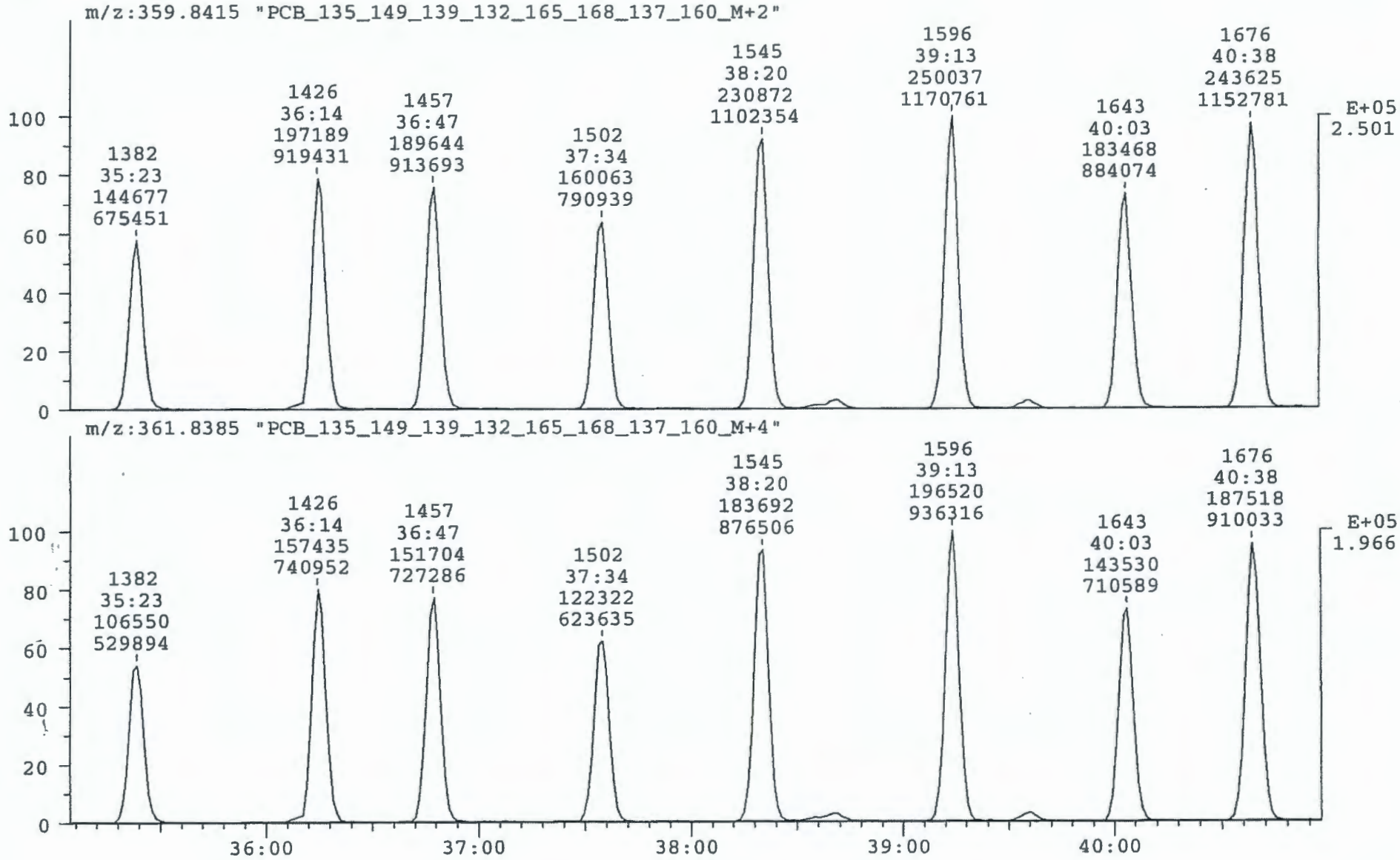
```
CHRO:  a07030722                                07-Mar-07   Elapse:  56:10      2555
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1892 > 1916           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```



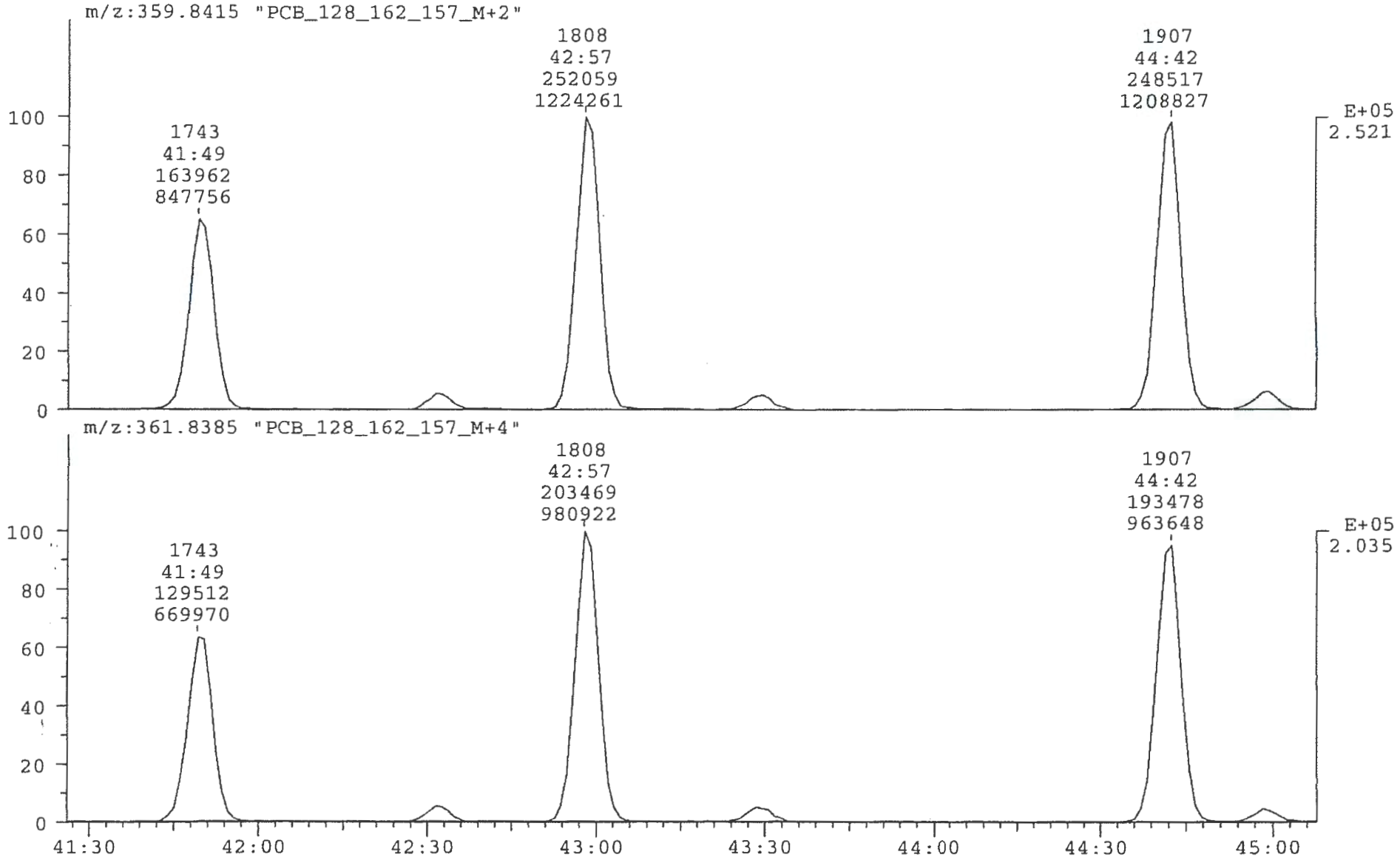
```
CHRO:  a07030722                                07-Mar-07   Elapse:  32:54      1241
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1201 > 1281           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



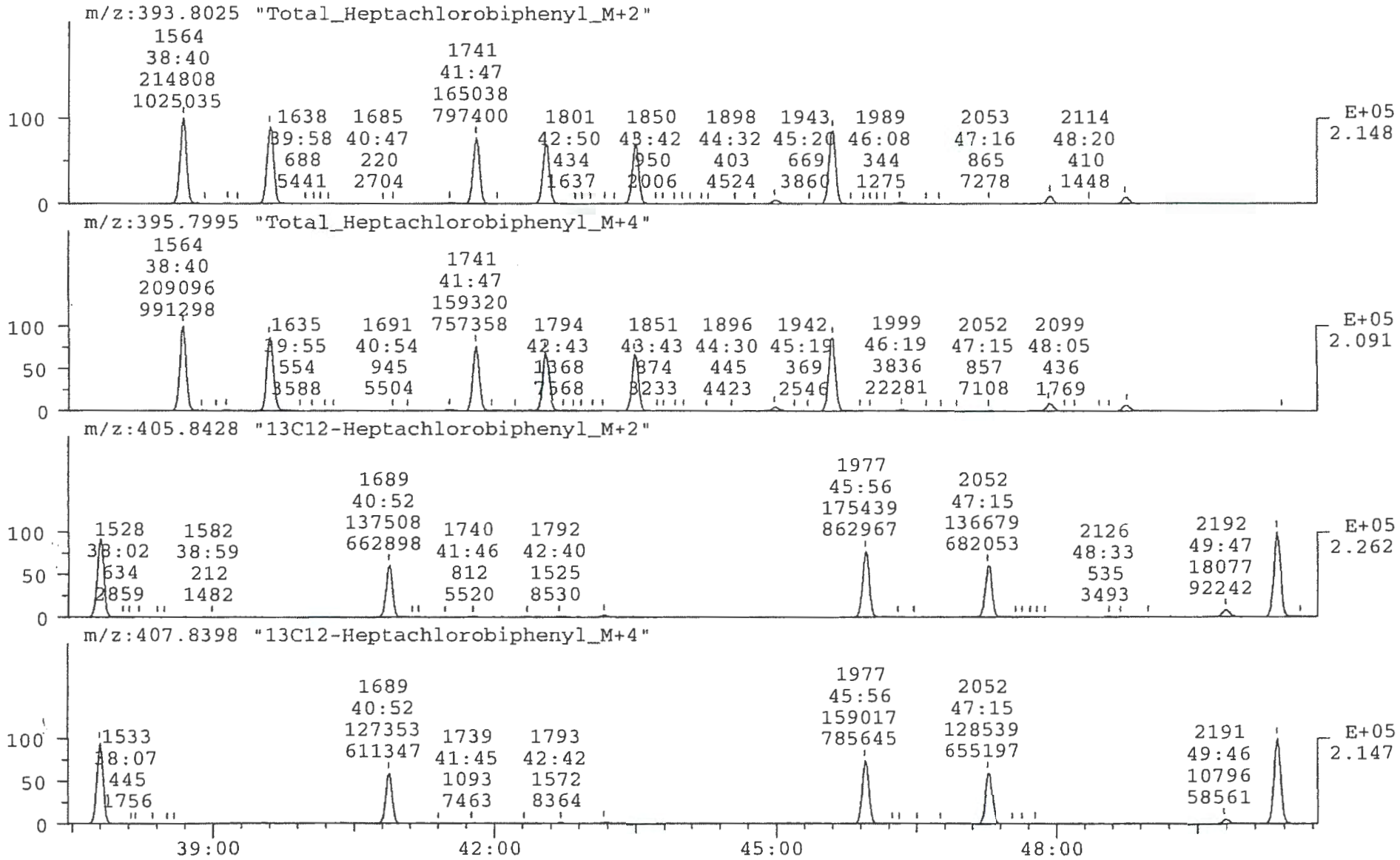
CHRO: a07030722 07-Mar-07 Elapse: 38:03 1529
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1364 > 1694 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



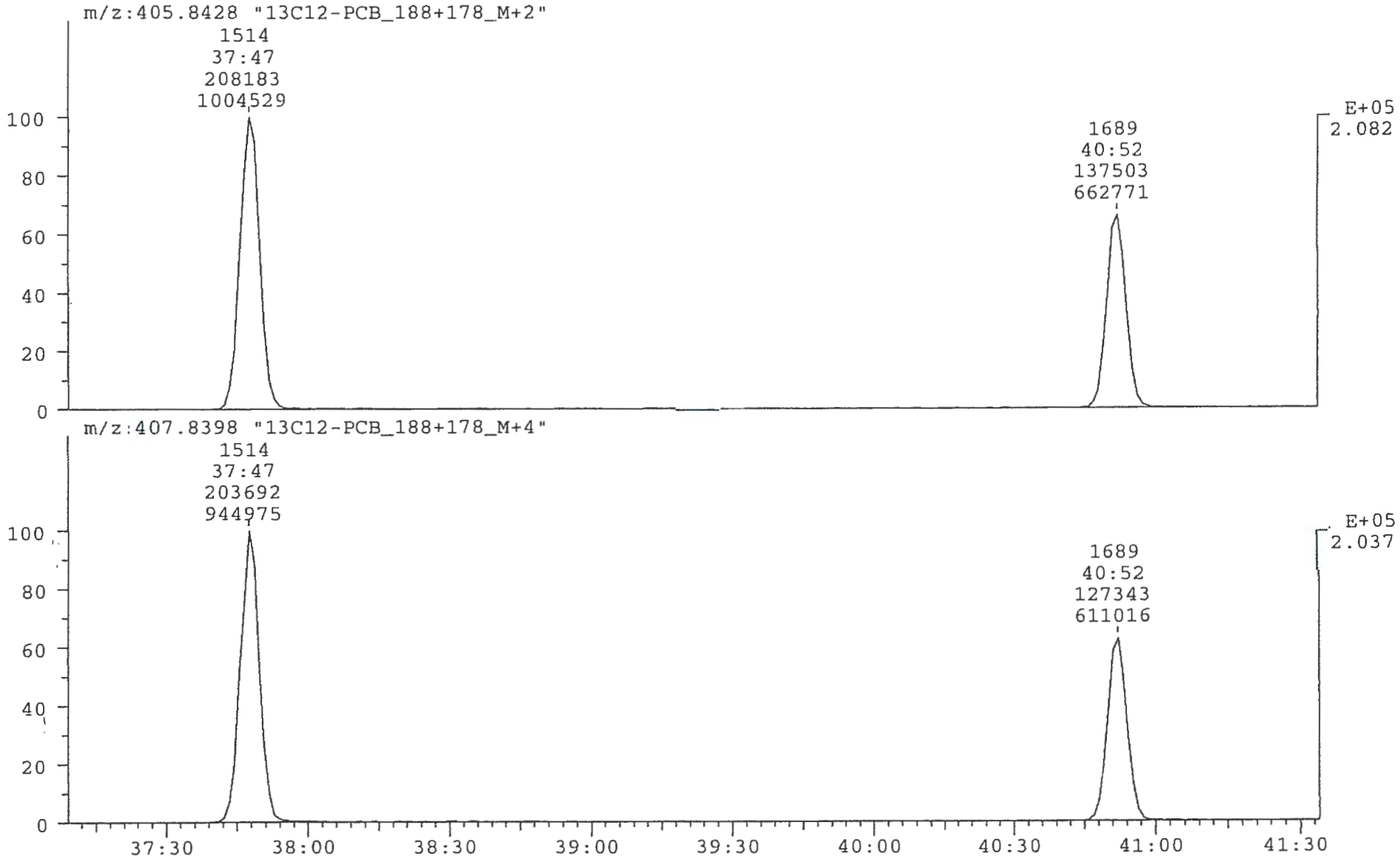
```
CHRO:  a07030722                                07-Mar-07   Elapse:  43:16      1826
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1721 > 1931           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



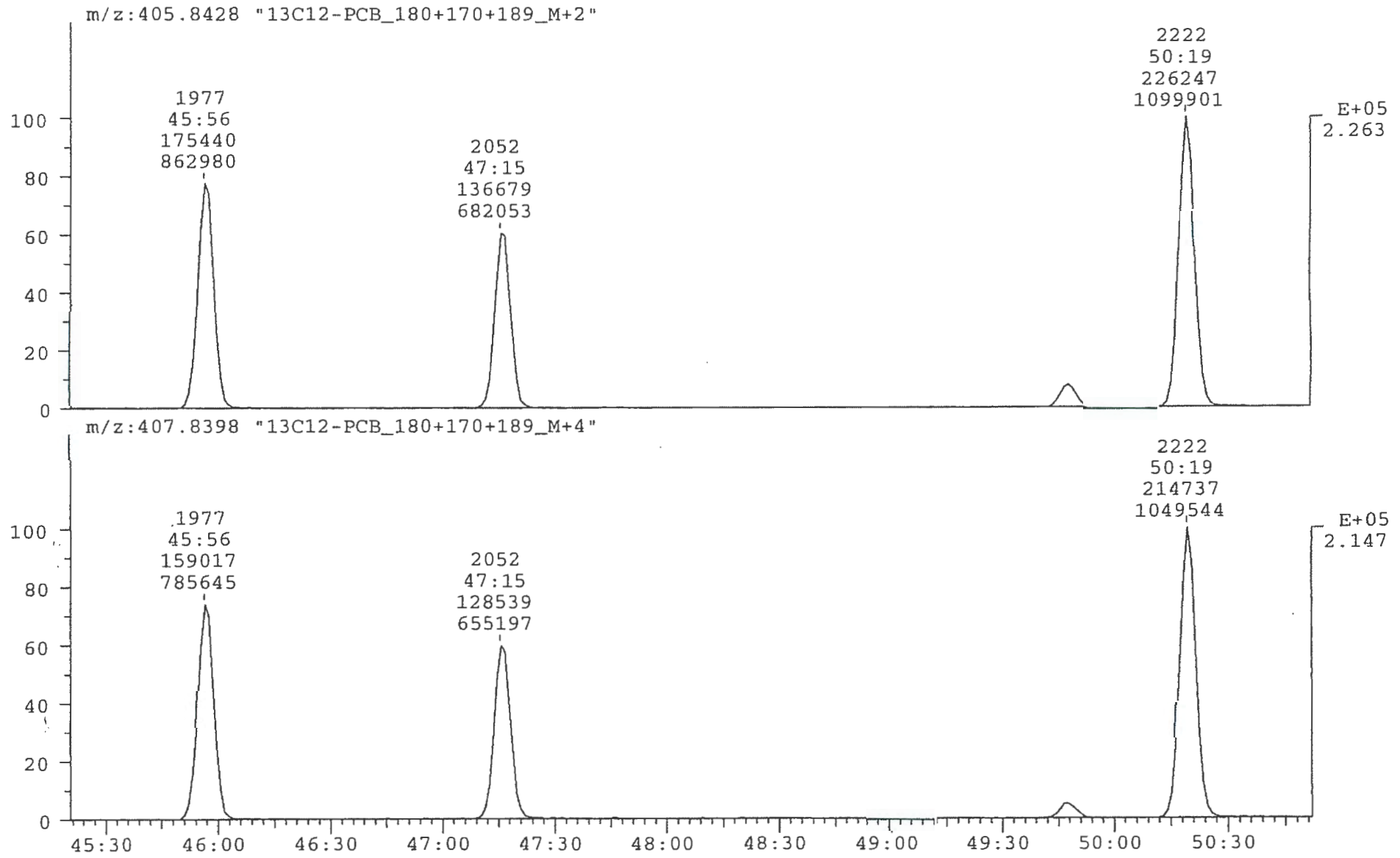
CHRO: a07030722 07-Mar-07 Elapse: 44:06 1873
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1495 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030722                                07-Mar-07   Elapse:  39:21      1603
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1478 > 1729           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

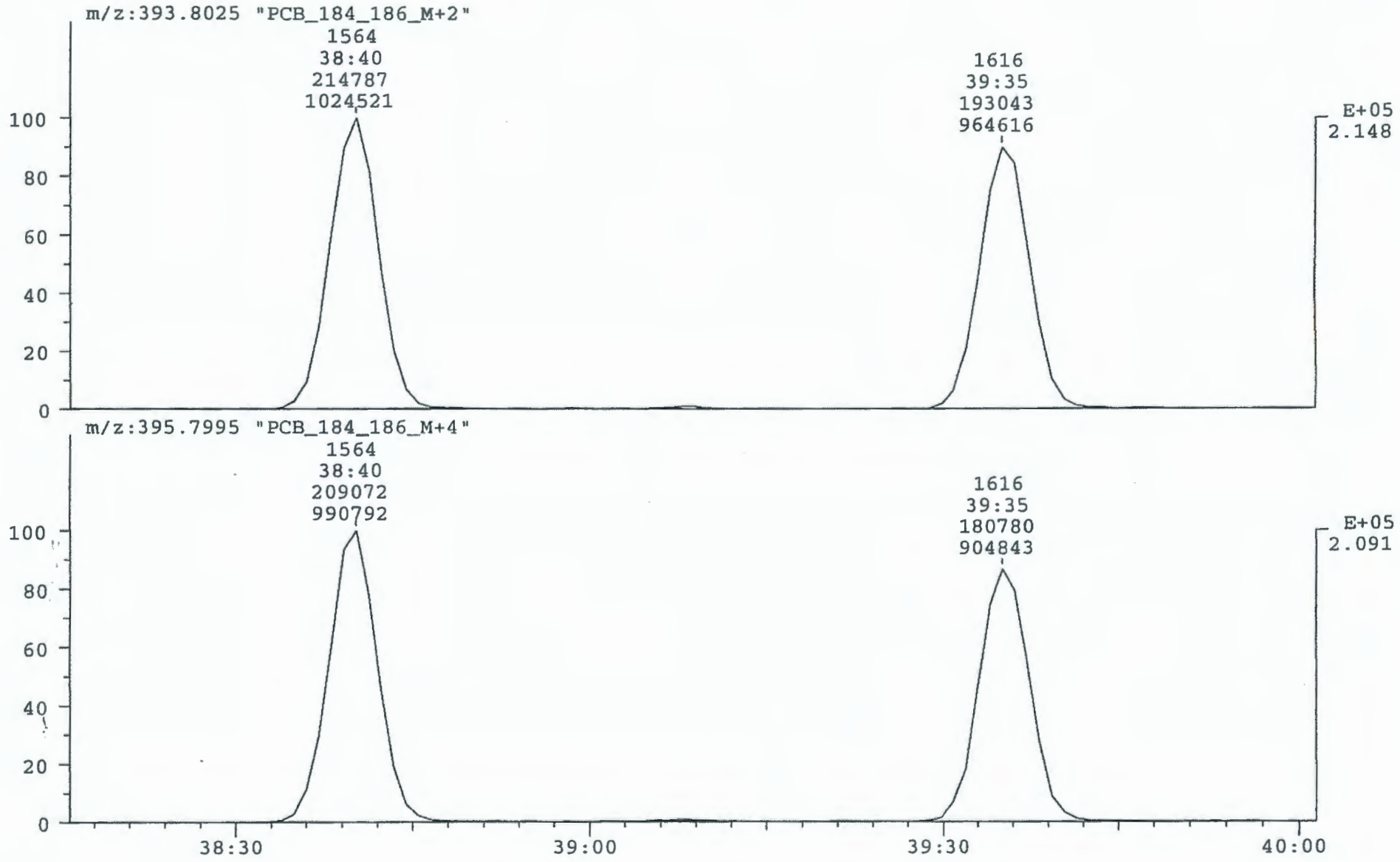


```
CHRO:  a07030722                                07-Mar-07   Elapse:  48:09      2103
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1943 > 2253           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

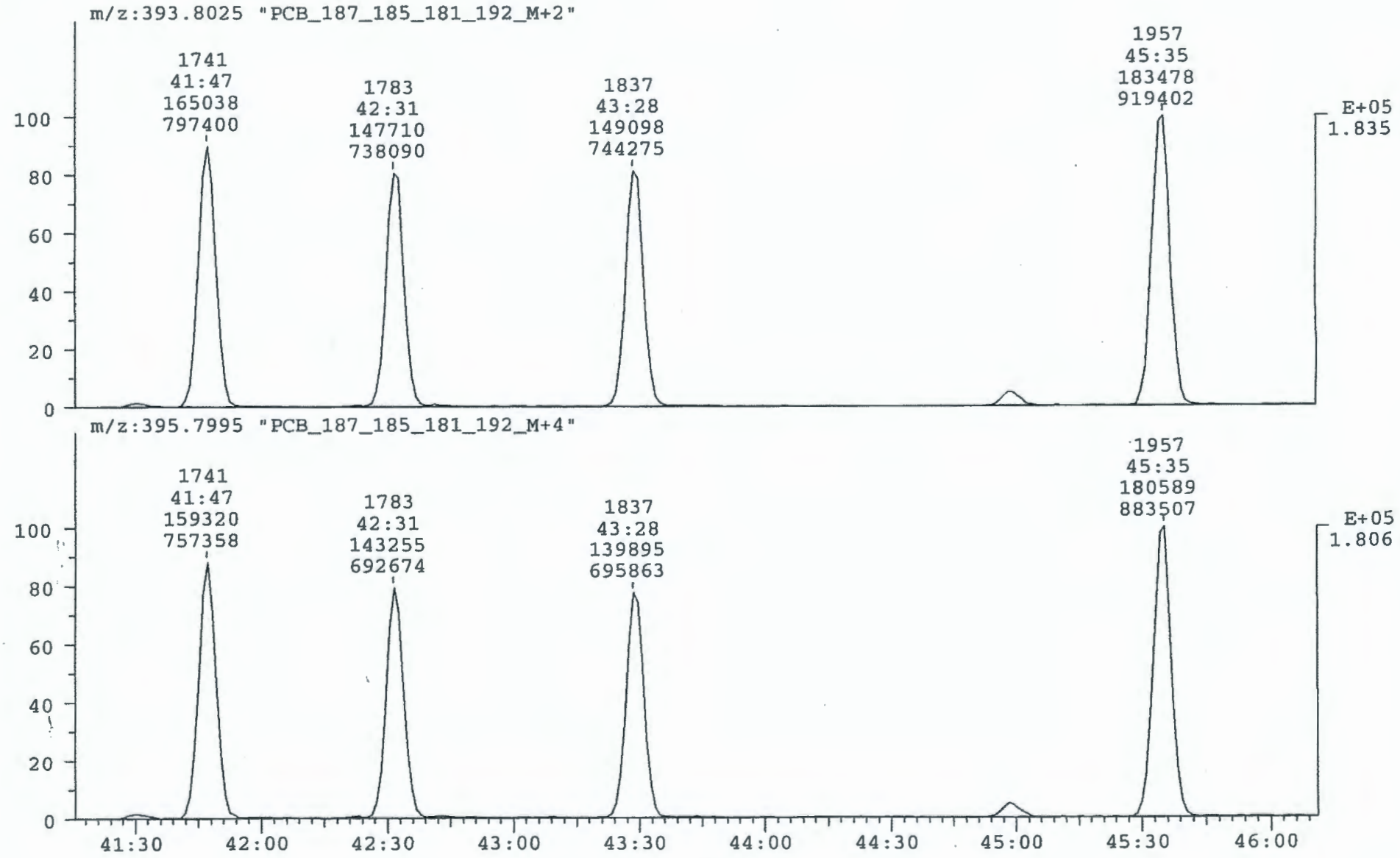


2140

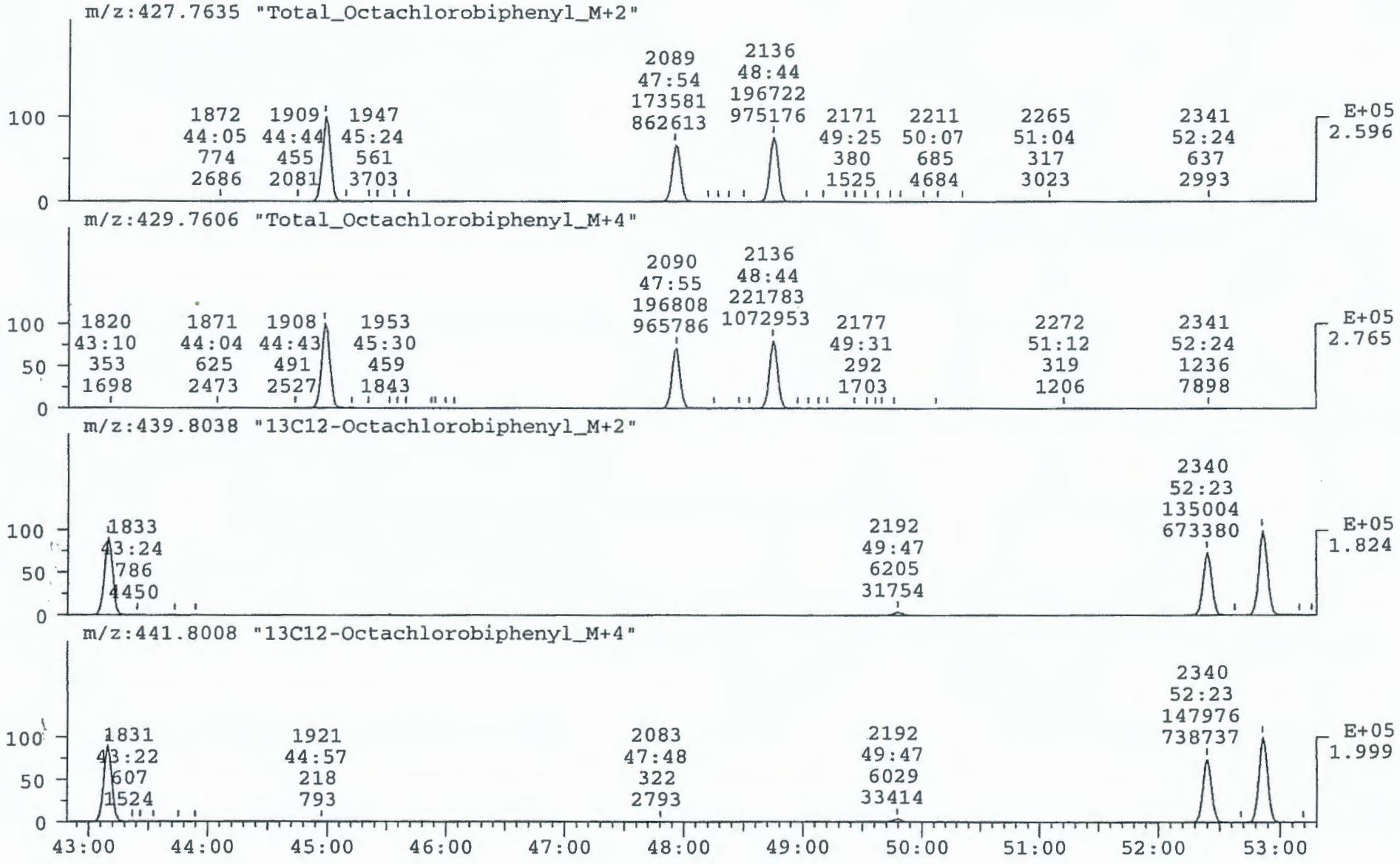
```
CHRO:  a07030722                                07-Mar-07   Elapse:  39:08      1591
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1541 > 1641           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030722 07-Mar-07 Elapse: 43:43 1851
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1711 > 1991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



CHRO: a07030722 07-Mar-07 Elapse: 48:03 2097
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1800 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030722                              07-Mar-07   Elapse:  43:08      1818
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1782 > 1859         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
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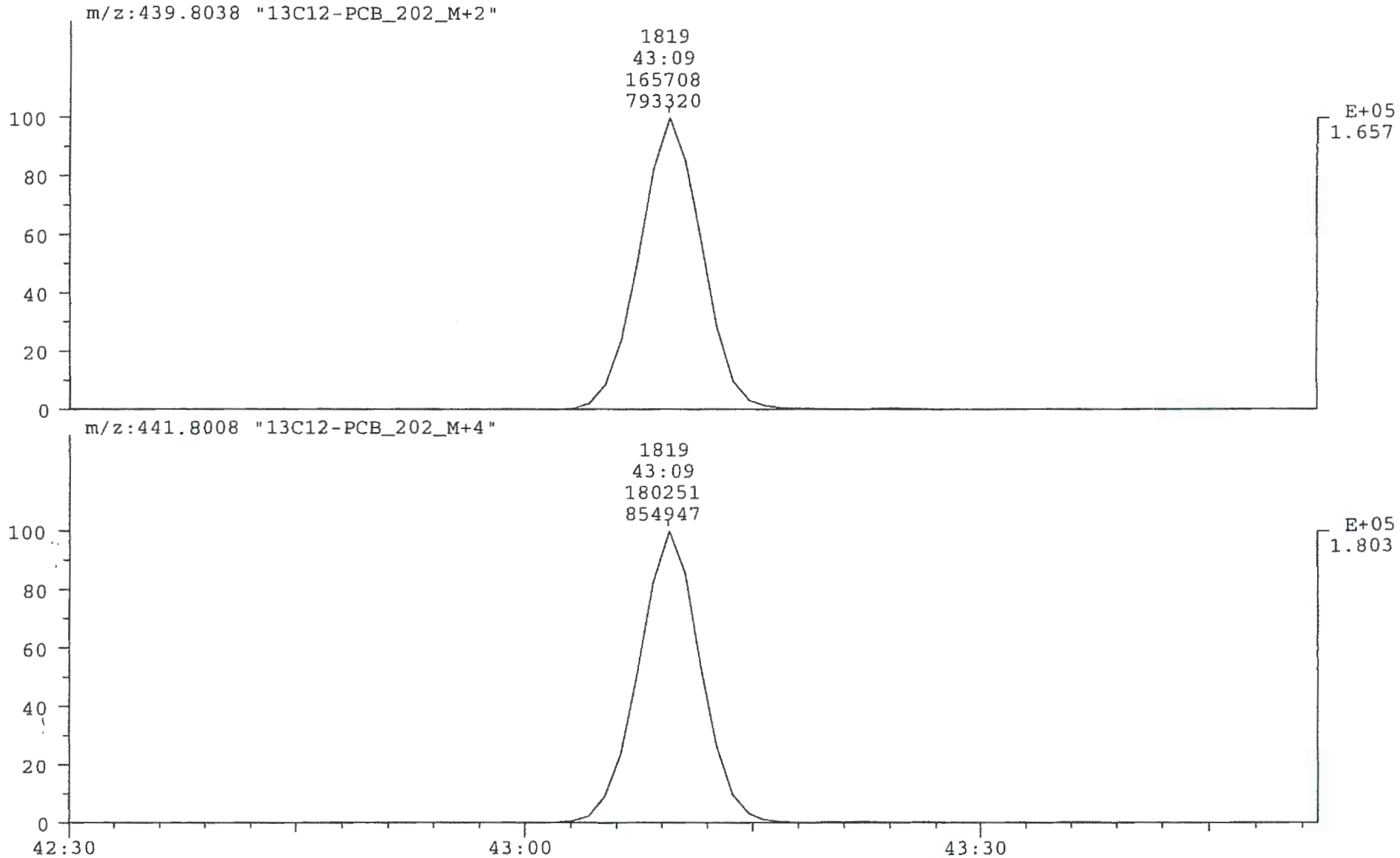
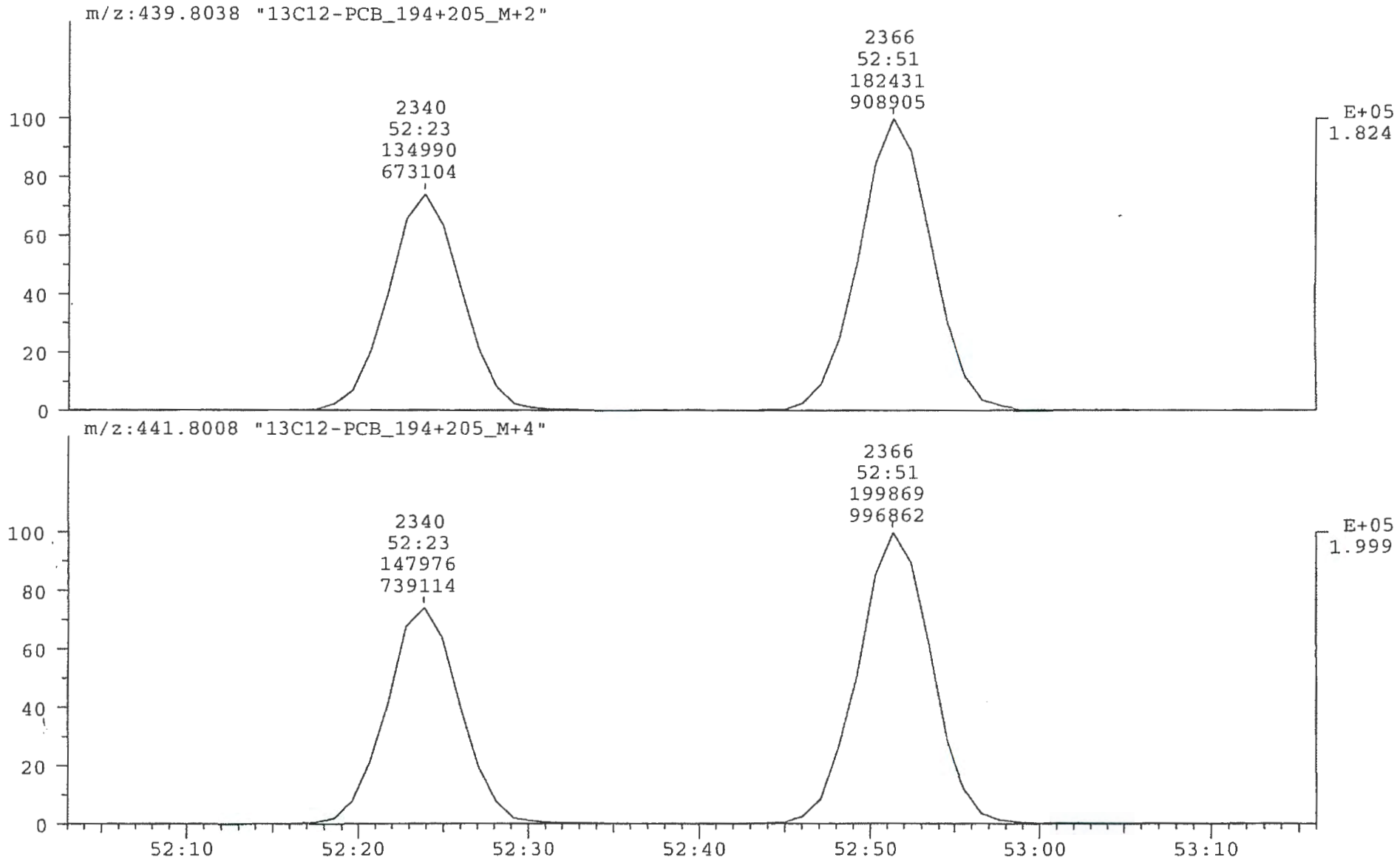
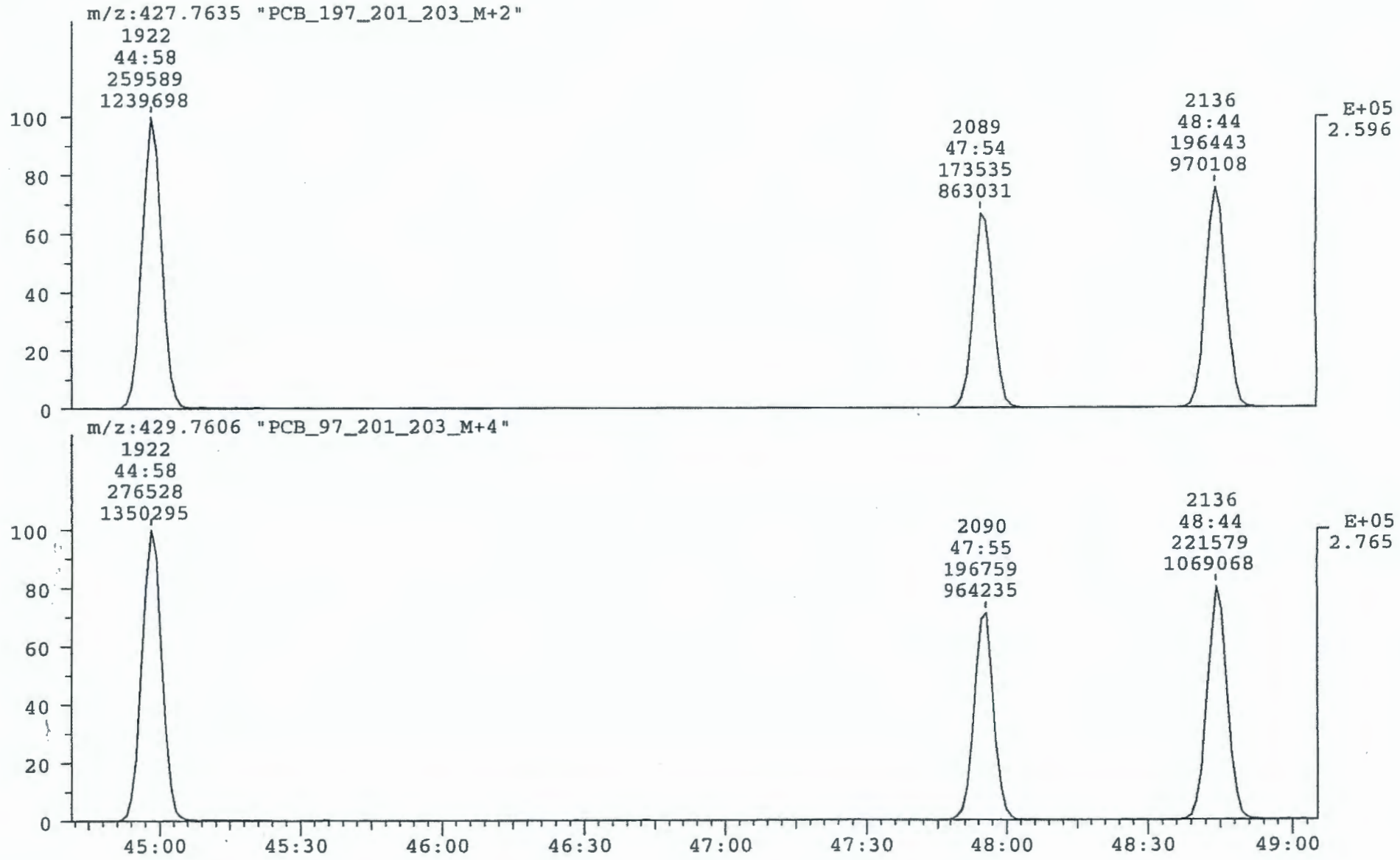


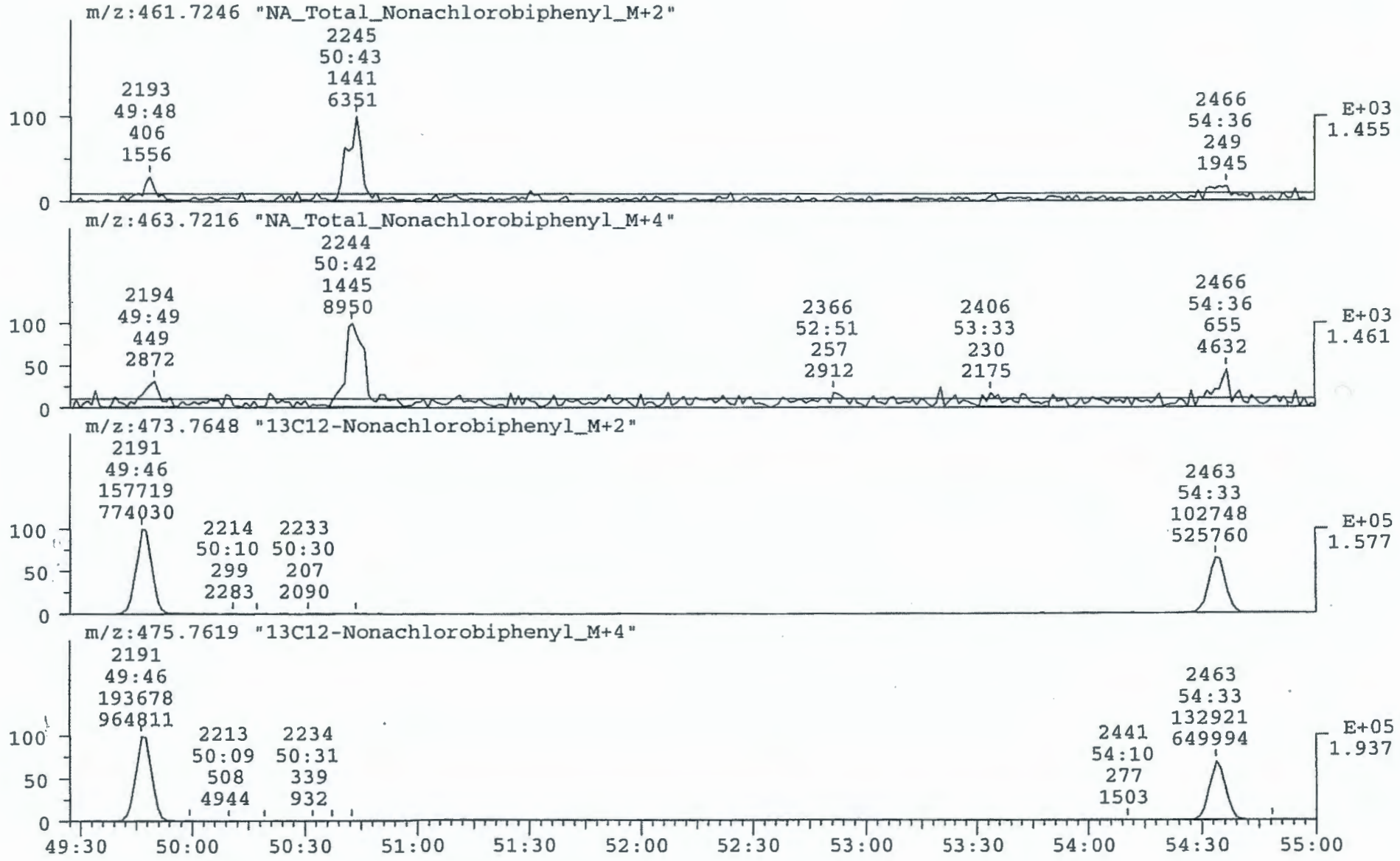
```
CHRO:  a07030722                                07-Mar-07   Elapse:  52:38      2354
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   2320 > 2389           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



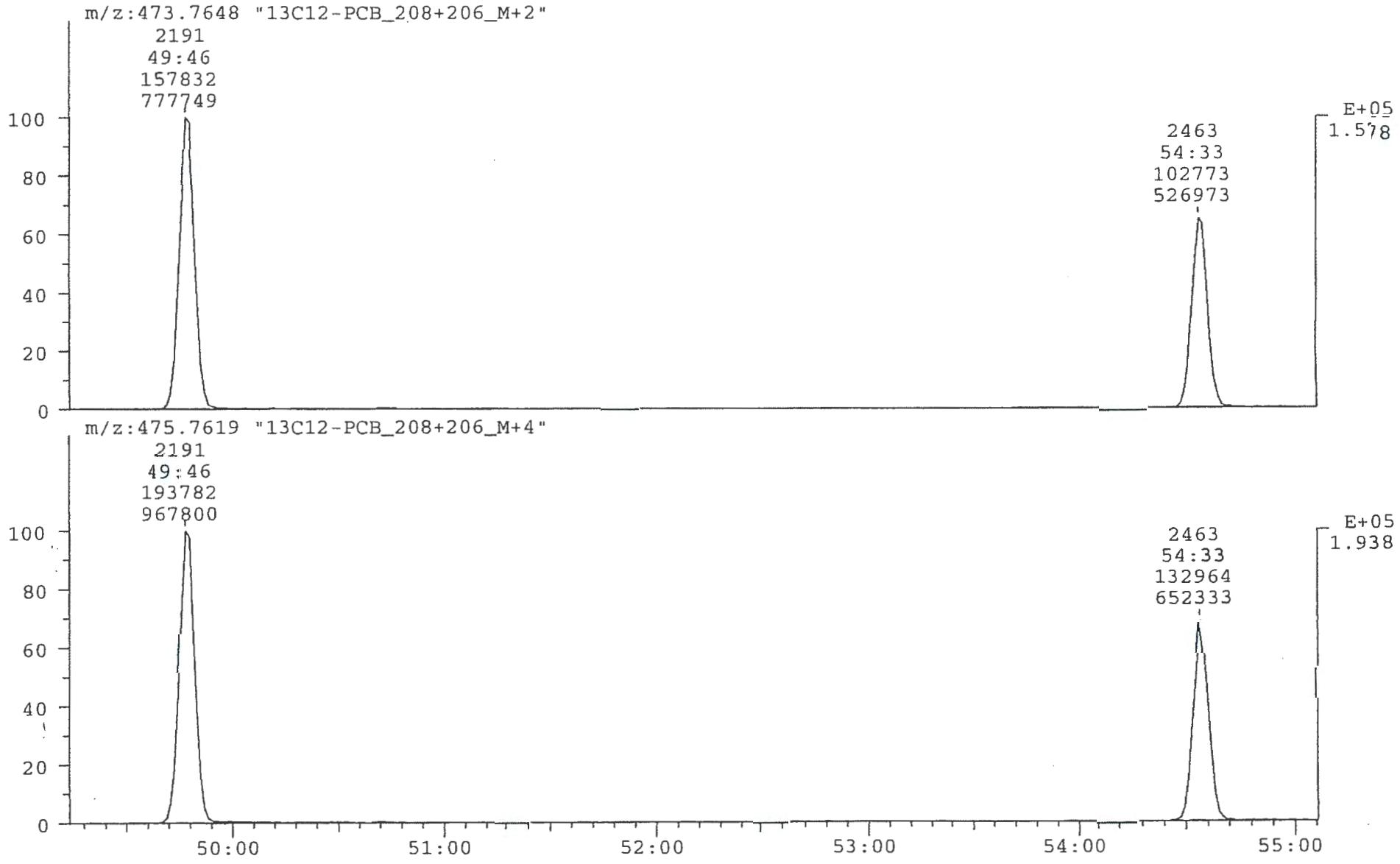
```
CHRO:  a07030722                                07-Mar-07   Elapse:  46:53      2031
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1906 > 2156           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



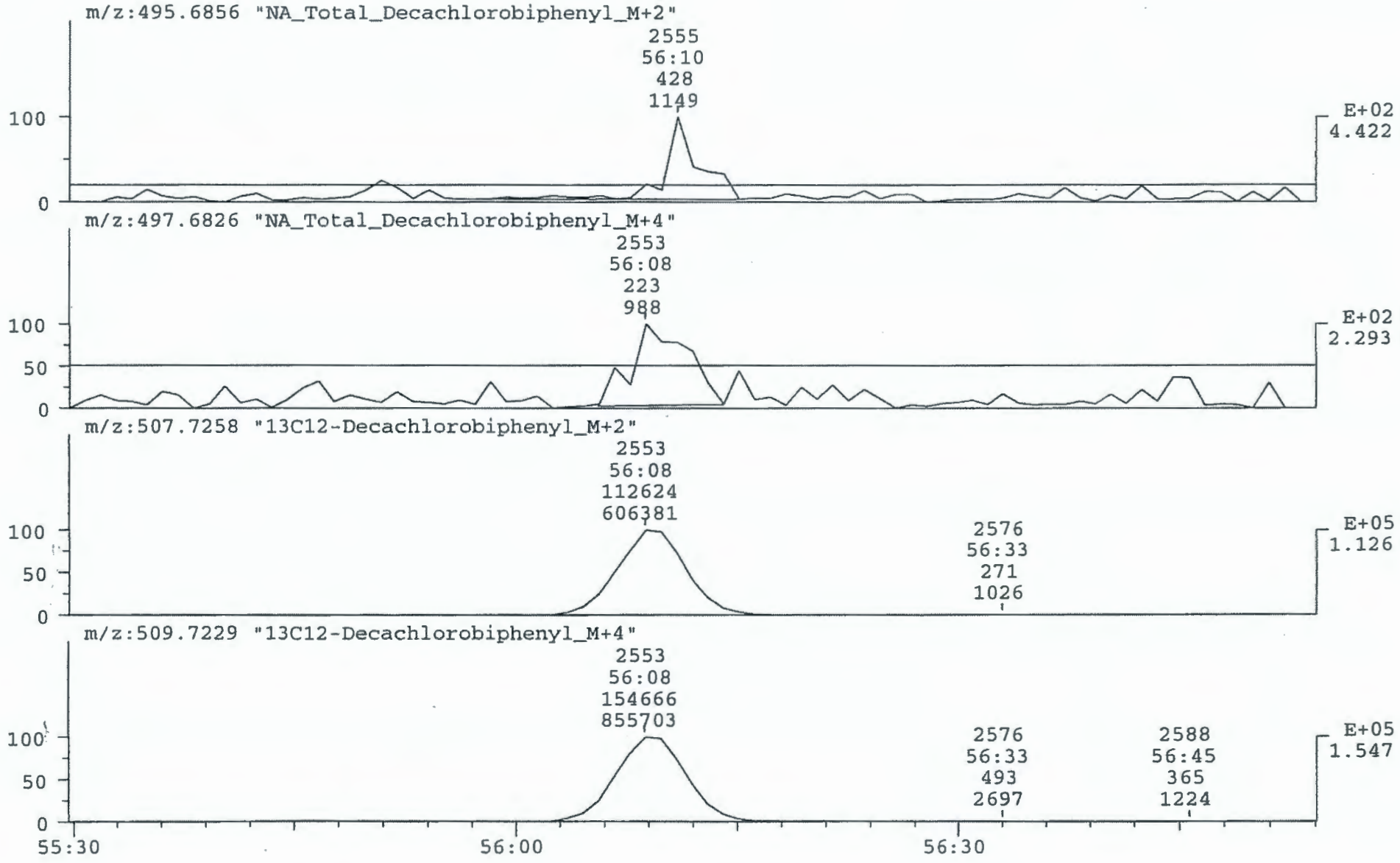
CHRO: a07030722 07-Mar-07 Elapse: 52:13 2330
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2173 > 2488 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030722                                07-Mar-07   Elapse:  52:12      2329
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  23:13:48   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   2164 > 2494           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030722 07-Mar-07 Elapse: 56:11 2556
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 23:13:48 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2516 > 2596 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



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

ICL Version: 10.710
File name: a07030722
Study: 1668 RT Mix2/Run2
Sample: WO=2990:75Mix2 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 4
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 7 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	255.0000
FVINLET	257.0000	FVSRC	831.0000	FWIN	0.7000
GCTC	205.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.1961	HVANAL	1307.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2605.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.8000	TCURR	0.7422
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 07-Mar-07 23:13:48.3

Autosampler has injected sample from vial 4
MID Time Window 1: Resolution is 7541
MID Time Window 2: Resolution is 8966
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 9203
Analysis stopped at: 08-Mar-07 00:10:50.9 (run time 57.02 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030723.	Prep Date		SDG No	
Analysis ID	96244	Prep Exp Date		Date Received	
Analysis Date	03/08/07 04:22	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					**188.0393**	**190.0363**	**188.0393**	**190.0363**	**2.66-3.60**		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	220	293	88	117	0.75 *	/	
	13C12-PCB 1	12:12	00:00	0	2311918	727595	878622	265548	3.18	AVV/AVV	
	13C12-PCB 3	14:24	00:00	0	2261169	706752	714604	224114	3.20	AVV/AVV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	253	525	101	210	0.48 *	/	
	PCB 7 (BZ)	16:50	00:00	0	875582	561855	262582	163001	1.56	ABV/AVV	D
	PCB 5 (BZ)	17:26	00:00	0	841178	525538	242211	147647	1.60	AVV/AVV	
	PCB 12 (BZ)	20:22	00:00	0	831659	554151	223203	139245	1.50	ABV/AVV	M
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	398	225	159	90	1.77	/	
	13C12-PCB 4	14:42	00:00	0	963593	604628	318342	197337	1.59	AVV/AVV	
	13C12-PCB 9	16:39	00:00	0	1689799	1053938	508408	314552	1.60	ABV/AVV	
	13C12-PCB 8	17:32	00:00	0	1769806	1079584	494486	292395	1.64	AVV/AVV	
	13C12-PCB 15	20:40	00:00	0	1688980	1073766	433478	278451	1.57	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	155	163	62	65	0.95	/	
	PCB 18 (BZ)	19:45	00:00	0	363275	341115	95942	88146	1.06	ABV/ABV	
	PCB 24 (BZ)	20:31	00:00	0	523281	492770	132060	125242	1.06	ABV/AVV	
	PCB 23 (BZ)	22:30	00:00	0	768028	749797	195083	183851	1.02	AVV/AVV	
	PCB 28 (BZ)	23:42	00:00	0	808709	788360	199802	189764	1.03	ABV/ABV	D
	PCB 22 (BZ)	24:23	00:00	0	775051	757835	181352	183429	1.02	AVV/AVV	D
	PCB 39 (BZ)	26:15	00:00	0	883075	842421	189719	183747	1.05	ABV/ABV	D
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	605	318	242	127	1.91 *	/	
	13C12-PCB 19	17:52	00:00	0	581277	541389	159963	147543	1.07	AVV/AVV	
	13C12-PCB 32	21:08	00:00	0	1076120	1004570	263779	253356	1.07	ABV/AVV	
	13C12-PCB 31	23:23	00:00	0	1667128	1558829	405941	383999	1.07	ABV/ABV	
	13C12-PCB 28	23:41	00:00	0	1537051	1472329	363021	348115	1.04	AVV/AVV	
	13C12-PCB 37	27:46	00:00	0	1425319	1339645	315458	295483	1.06	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	178	285	71	114	0.62 *	/	
	PCB 53 (BZ)	23:10	00:00	0	797782	1013675	195028	245583	0.79	ABV/ABV	M
	PCB 51 (BZ)	23:55	00:00	0	824586	1035498	207835	260020	0.80	ABV/ABV	M
	PCB 73 (BZ)	25:40	00:00	0	1039941	1312381	239251	296304	0.79	ABV/ABV	
	PCB 48 (BZ)	26:18	00:00	0	802385	1020815	184189	235763	0.79	AVV/ABV	
	PCB 62 (BZ)	26:48	00:00	0	1024838	1289253	235889	290189	0.79	AVV/AVV	
	PCB 71 (BZ)	27:36	00:00	0	1104521	1409190	248556	318303	0.78	AVV/AVV	D
	PCB 68 (BZ)	28:51	00:00	0	1123778	1423605	254664	326908	0.79	ABV/ABV	D
	PCB 58 (BZ)	29:35	00:00	0	1141635	1429736	242181	302176	0.80	AVV/AVV	D
	PCB 61 (BZ)	30:12	00:00	0	1019365	1298708	221780	284811	0.78	AVV/ABV	D
	PCB 55 (BZ)	30:52	00:00	0	1063434	1353460	232322	297686	0.79	AVV/AVV	D

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030723.	Prep Date		SDG No	
Analysis ID	96244	Prep Exp Date		Date Received	
Analysis Date	03/08/07 04:22	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	PCB 60 (BZ)	31:35	00:00	0	1089458	1388556	234714	295443	0.78	AVV/AVV	D
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	165	140	66	56	1.18 *	/	
	13C12-PCB 54	21:01	00:00	0	508020	638096	131761	164848	0.80	ABV/ABV	
	13C12-PCB 52	25:32	00:00	0	783156	967033	189935	230518	0.81	ABV/ABV	
	13C12-PCB 79	33:27	00:00	0	1124686	1434394	240928	301986	0.78	ABV/ABV	
	13C12-PCB 81	34:29	00:00	0	977221	1218921	203807	255191	0.80	ABV/ABV	D
	13C12-PCB 77	35:05	00:00	0	1017608	1269335	210739	259286	0.80	AVV/ABB	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	250	178	100	71	1.41	/	
	PCB 94 (BZ)	29:02	00:00	0	800116	506673	178909	114212	1.58	ABV/ABV	D
	PCB 100 (BZ)	29:36	00:00	0	977475	615642	208753	129716	1.59	ABV/AVV	
	PCB 91 (BZ)	30:21	00:00	0	874607	562083	199193	126030	1.56	AVV/AVV	D
	PCB 121 (BZ)	31:20	00:00	0	1226274	774675	278033	170785	1.58	ABV/ABV	D
	PCB 90 (BZ)	32:21	00:00	0	868435	538232	194497	119597	1.61	ABV/ABV	DM
	PCB 99 (BZ)	32:56	00:00	0	1023043	649530	225222	138238	1.58	AVV/AVV	DM
	PCB 109 (BZ)/108 (IUPAC	33:24	00:00	0	1196693	749173	252659	168374	1.60	AVV/AVV	
	PCB 117 (BZ)	34:05	00:00	0	1218552	759548	256673	162542	1.60	AVV/ABV	D
	PCB 111 (BZ)	35:00	00:00	0	1292846	801421	282169	173899	1.61	ABB/ABV	D
	PCB 108 (BZ)/107 (IUPAC	36:40	00:00	0	1429028	924350	294893	185371	1.55	ABV/ABV	DM
	PCB 118 (BZ)	37:20	00:00	0	1410075	902957	294916	194398	1.56	AVV/AVV	
	PCB 114 (BZ)	37:53	00:00	0	1448222	927869	307055	192916	1.56	AVV/AVV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	153	148	61	59	1.03 *	/	
	13C12-PCB 104	26:28	00:00	0	1150871	722853	265947	169251	1.59	ABV/ABV	D
	13C12-PCB 95	29:29	00:00	0	888535	542315	196518	121453	1.64	AVV/ABV	D
	13C12-PCB 101	32:20	00:00	0	928298	574955	201545	121676	1.61	ABV/AVV	
	13C12-PCB 111	34:59	00:00	0	1176123	731194	250366	152590	1.61	ABV/ABV	
	13C12-PCB 123	37:00	00:00	0	1382623	869853	282809	179397	1.59	ABV/ABV	D
	13C12-PCB 118	37:19	00:00	0	1442400	900367	307877	192679	1.60	AVV/AVV	D
	13C12-PCB 114	37:52	00:00	0	1431140	896269	285965	183847	1.60	AVV/AVV	D
	13C12-PCB 105	38:34	00:00	0	1380429	855297	289320	179792	1.61	ABV/AVV	D
	13C12-PCB 127	39:57	00:00	0	1542571	954501	322924	200231	1.62	ABV/ABV	
	13C12-PCB 126	41:38	00:00	0	1463520	914037	294354	181782	1.60	ABV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	195	210	78	84	0.93 *	/	
	PCB 150 (BZ)	32:31	00:00	0	972654	754825	214434	162682	1.29	ABV/ABV	D
	PCB 145 (BZ)	33:12	00:00	0	919491	723896	196426	155304	1.27	ABV/AVV	D
	PCB 135 (BZ)	35:21	00:00	0	660281	515471	134733	106508	1.28	ABV/ABV	D
	PCB 149 (BZ)	36:13	00:00	0	956747	770084	192105	153643	1.24	ABV/ABV	DM
	PCB 139 (BZ)	36:45	00:00	0	891402	701939	181239	145015	1.27	AVV/AVV	D
	PCB 132 (BZ)	37:33	00:00	0	772835	608890	158209	125317	1.27	AVV/AVV	D
	PCB 165 (BZ)	38:17	00:00	0	1083792	855208	224171	180626	1.27	AVV/AVV	D

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030723.	Prep Date		SDG No	
Analysis ID	96244	Prep Exp Date		Date Received	
Analysis Date	03/08/07 04:22	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	PCB 168 (BZ)	39:12	00:00	0	1167225	942071	244891	189897	1.24	ABV/ABV	DM
	PCB 137 (BZ)	40:01	00:00	0	892197	702045	179343	144697	1.27	AVV/ABV	D
	PCB 160 (BZ)	40:37	00:00	0	1116559	885822	235953	189396	1.26	AVV/ABV	M
	PCB 128 (BZ)	41:47	00:00	0	843489	651797	163837	124660	1.29	ABV/ABV	
	PCB 162 (BZ)	42:56	00:00	0	1218126	967188	256770	200931	1.26	ABV/ABV	
	PCB 157 (BZ)	44:40	00:00	0	1188231	939862	238034	191233	1.26	ABV/ABV	M
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	105	125	42	50	0.84 *	/	
	13C12-PCB 155	32:01	00:00	0	954963	729611	209201	162873	1.31	ABV/ABV	D
	13C12-PCB 153	39:08	00:00	0	1004133	779166	212503	167828	1.29	AVV/ABV	D
	13C12-PCB 138	40:26	00:00	0	981751	759437	199851	157283	1.29	ABV/ABV	
	13C12-PCB 167	43:24	00:00	0	1187790	944011	246790	196111	1.26	AVV/AVV	
	13C12-PCB 156	44:34	00:00	0	1211539	782888	235286	192497	1.55 *	ABV/ABV	RD
	13C12-PCB 157	44:38	00:00	0	1161592	1087769	261027	204350	1.07	AVV/AVB	M
	13C12-PCB 169	47:49	00:00	0	1167665	908233	238690	186944	1.29	AVV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	170	210	68	84	0.81 *	/	
	PCB 184 (BZ)	38:38	00:00	0	1039543	978213	212874	205302	1.06	ABV/ABV	
	PCB 186 (BZ)	39:33	00:00	0	942440	901023	188411	185117	1.05	ABV/ABV	D
	PCB 187 (BZ)	41:45	00:00	0	784388	754600	164602	154801	1.04	AVV/AVV	D
	PCB 185 (BZ)	42:30	00:00	0	706267	668919	141656	140951	1.06	AVV/AVV	D
	PCB 181 (BZ)	43:27	00:00	0	741801	705071	153403	143865	1.05	AVV/ABV	D
	PCB 192 (BZ)	45:32	00:00	0	904938	880283	183183	175913	1.03	ABV/AVV	D
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	175	140	70	56	1.25 *	/	
	13C12-PCB 188	37:46	00:00	0	1007301	935747	207877	193521	1.08	ABV/ABV	D
	13C12-PCB 178	40:50	00:00	0	648189	627360	129258	125858	1.03	ABV/ABV	
	13C12-PCB 180	45:54	00:00	0	843128	801262	174455	168081	1.05	ABV/ABV	
	13C12-PCB 170	47:14	00:00	0	676099	638914	138220	129936	1.06	ABV/AVV	
	13C12-PCB 189	50:17	00:00	0	1101300	1053420	217861	210210	1.05	ABV/AVV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	198	185	79	74	1.07 *	/	
	PCB 197 (BZ)	44:56	00:00	0	1222018	1348179	247265	280504	0.91	ABV/ABV	
	PCB 201 (BZ)/199 (IUPAC	47:53	00:00	0	868943	942880	174317	192428	0.92	ABV/ABV	DM
	PCB 203 (BZ)	48:42	00:00	0	961343	1058310	192357	213986	0.91	ABV/AVV	D
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	108	130	43	52	0.83	/	
	13C12-PCB 202	43:08	00:00	0	782207	839406	158227	167687	0.93	ABV/ABV	D
	13C12-PCB 194	52:22	00:00	0	672627	712596	137734	145422	0.94	ABV/ABV	
	13C12-PCB 205	52:49	00:00	0	898983	991120	180694	196878	0.91	ABV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	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

IsoCalc

Workorder	2990:75MIX2	Prep Batch		Lot No	
Data File	/20070307rt/a07030723.	Prep Date		SDG No	
Analysis ID	96244	Prep Exp Date		Date Received	
Analysis Date	03/08/07 04:22	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

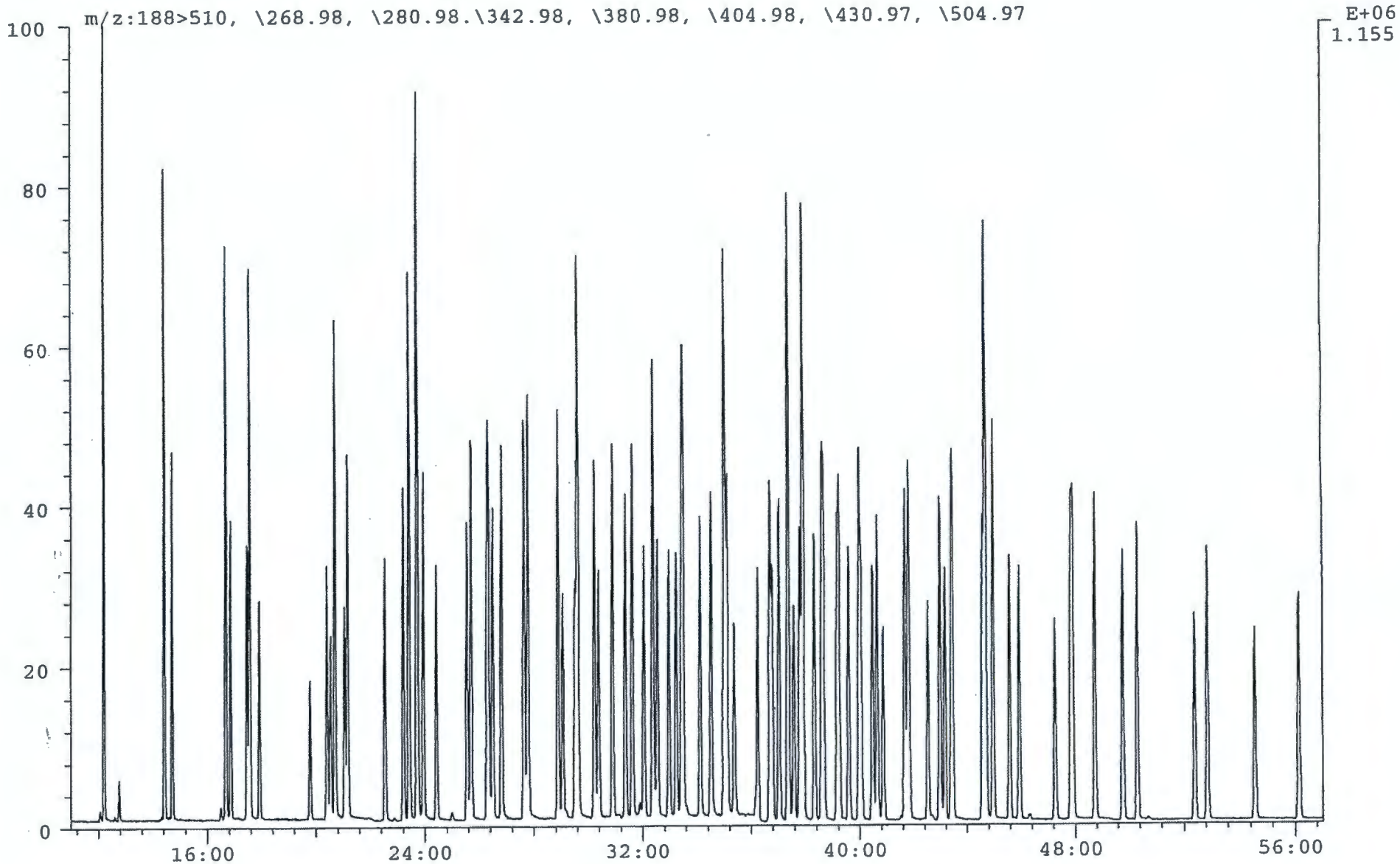
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89	
	Noise	00:00	00:00	0	148	148	59	59	1.00 *	/
	13C12-PCB 208	49:45	00:00	0	775581	957030	156918	184905	0.81	AVV/AVV
	13C12-PCB 206	54:32	00:00	0	518560	662509	105565	128552	0.78	AVB/ABV
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79	
	Noise	00:00	00:00	0	0	0	0	0	0.00 *	
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79	
	Noise	00:00	00:00	0	148	150	59	60	0.98 *	/
	13C12-PCB 209	56:07	00:00	0	593492	843543	106587	155617	0.70	ABV/ABV

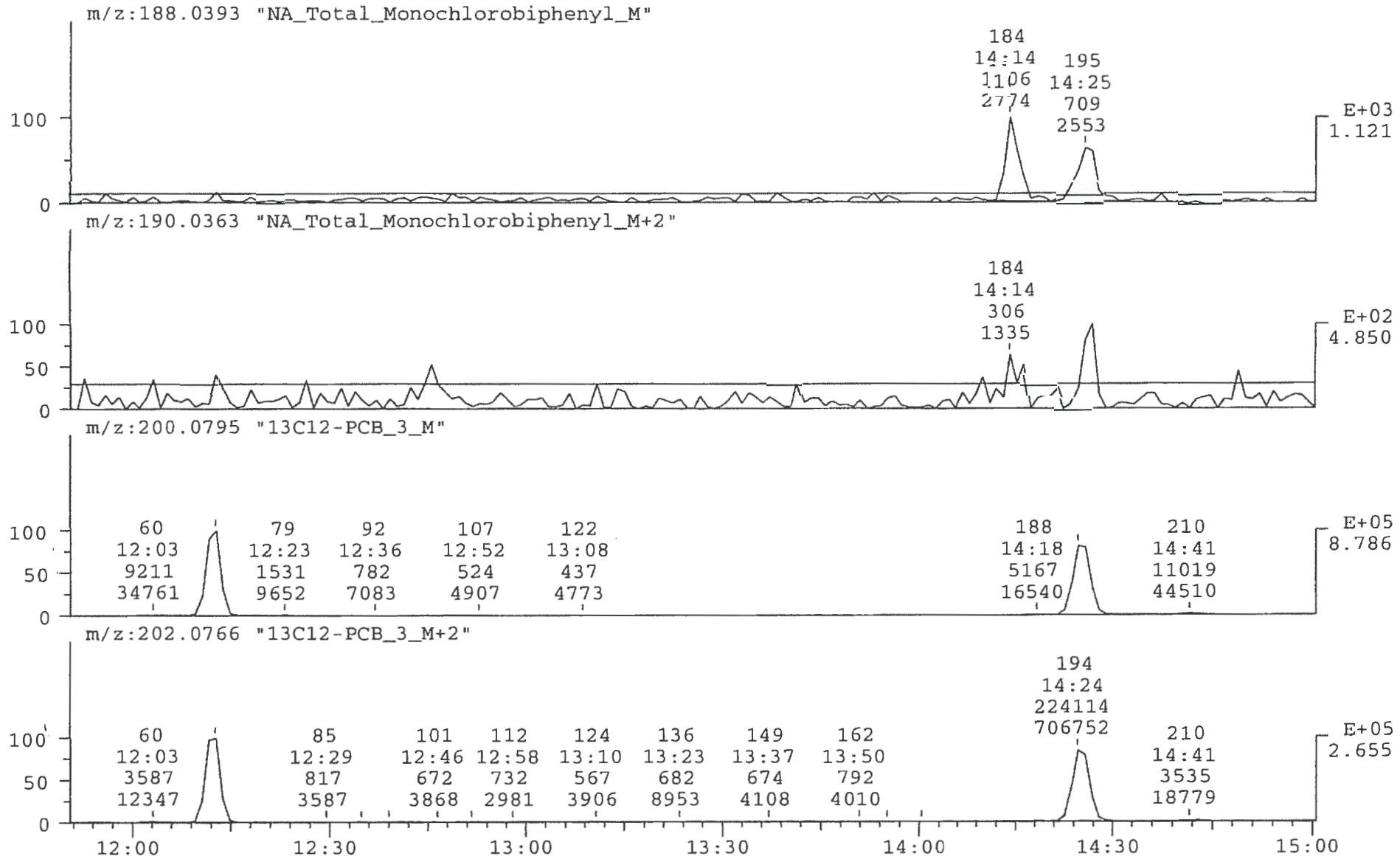
Notes:
P = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: a07030723 08-Mar-07 Elapse: 56:12 2556
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

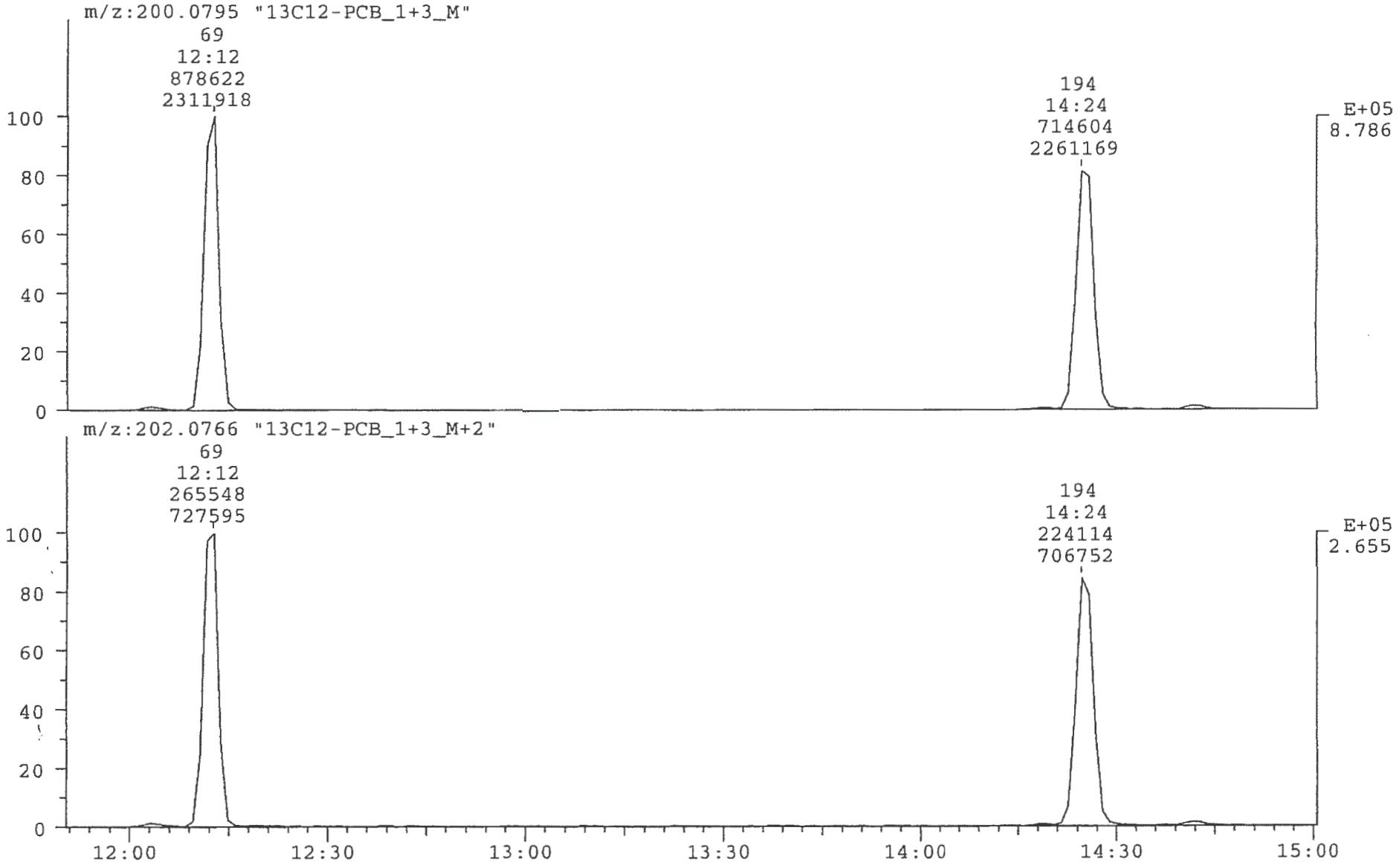
Int DCS 3-1707
c/c DCS 3-1907
QC KBW 3/19/07



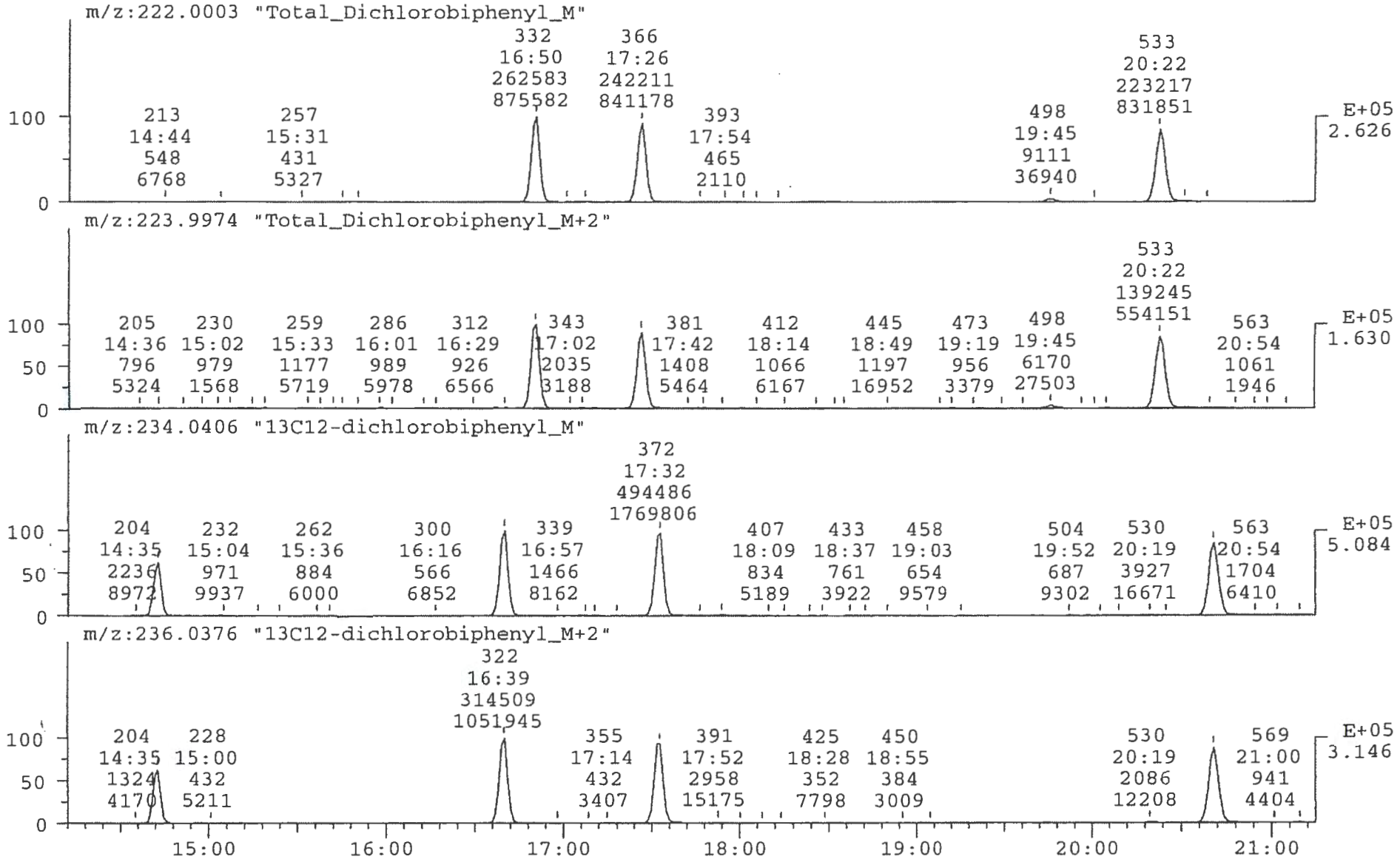
CHRO: a07030723 08-Mar-07 Elapse: 13:25.5 138
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 48 > 228 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



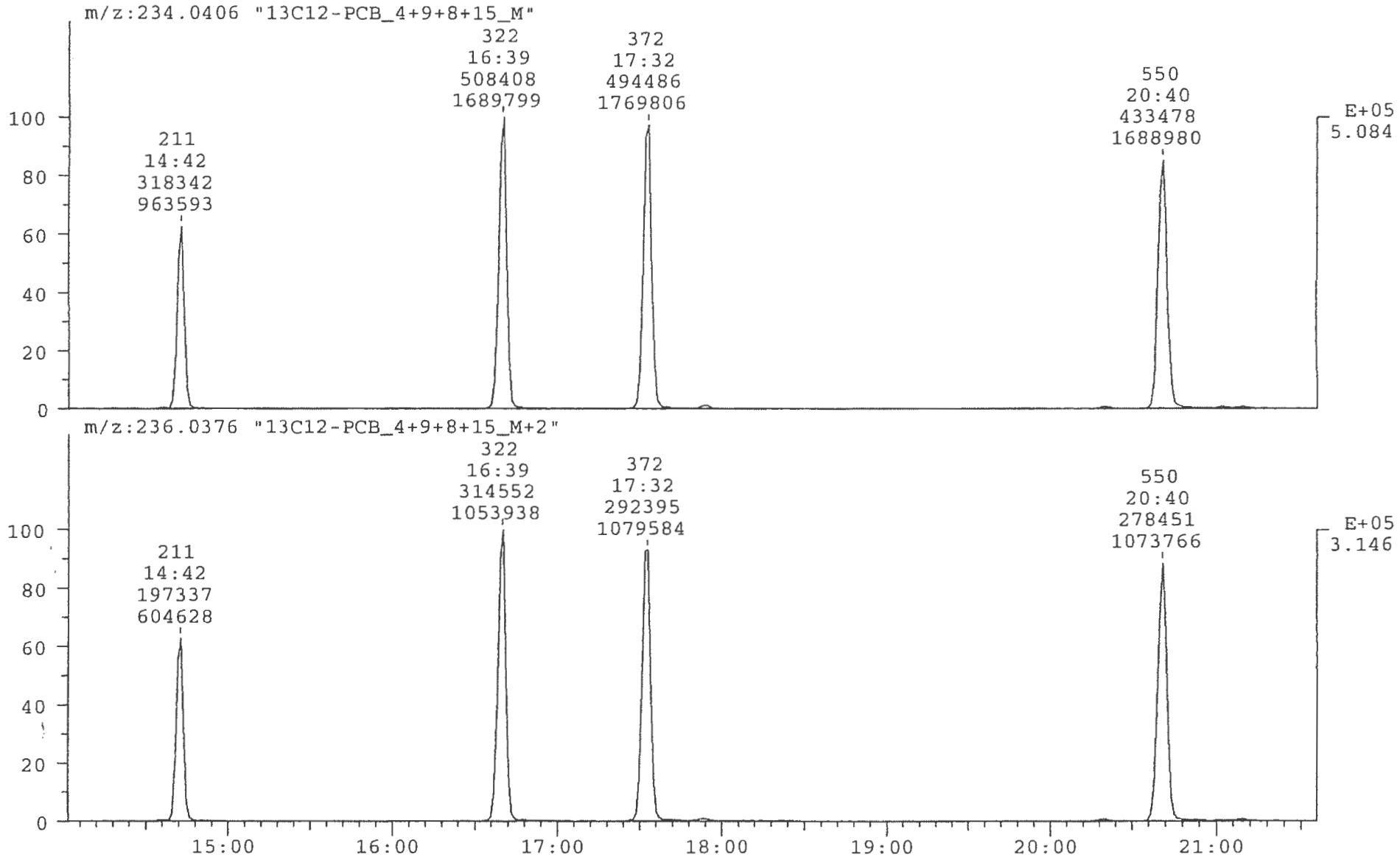
```
CHRO:  a07030723                                08-Mar-07   Elapse:  13:25.5      138
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



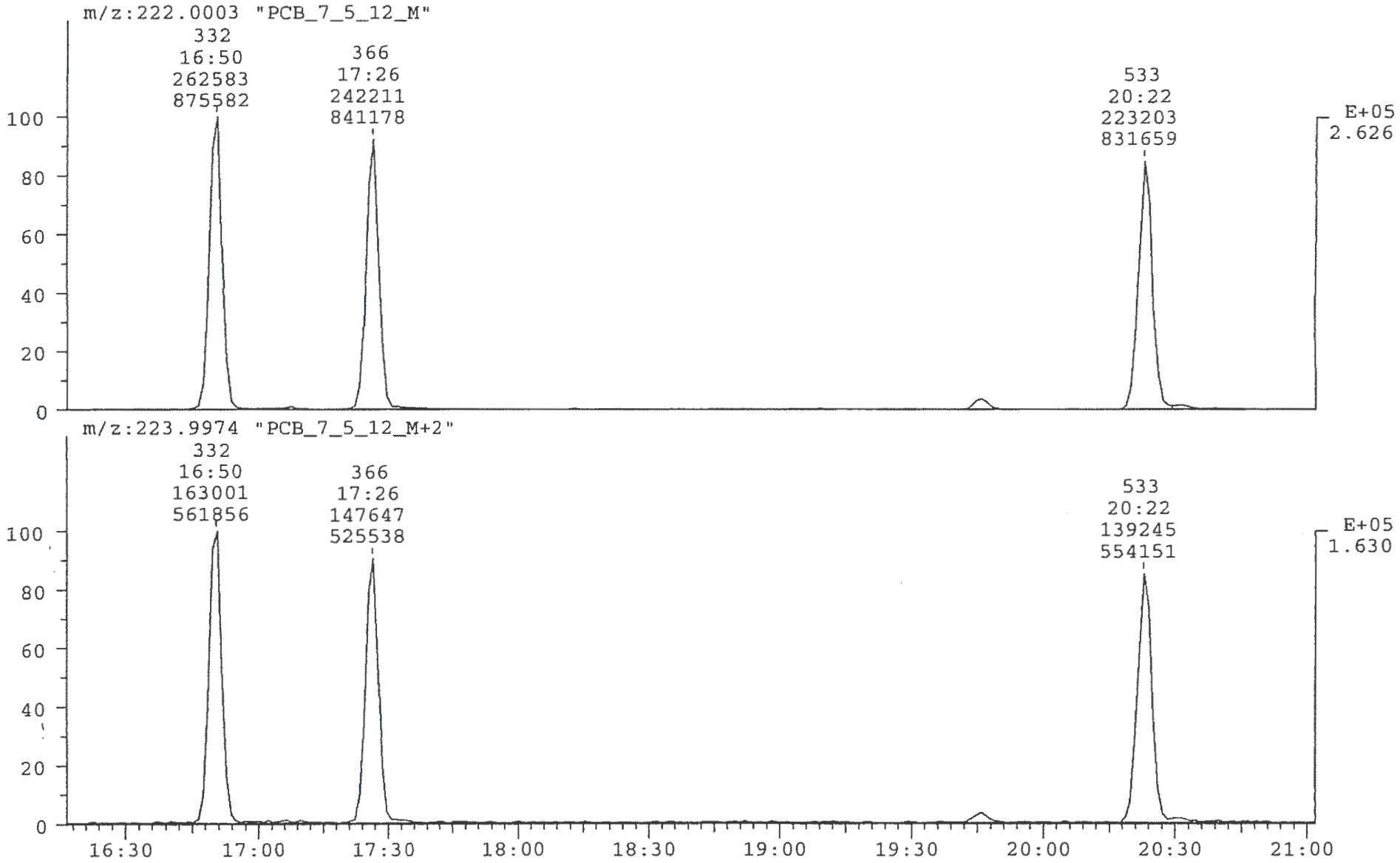
```
CHRO:  a07030723                                08-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   182 > 582             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



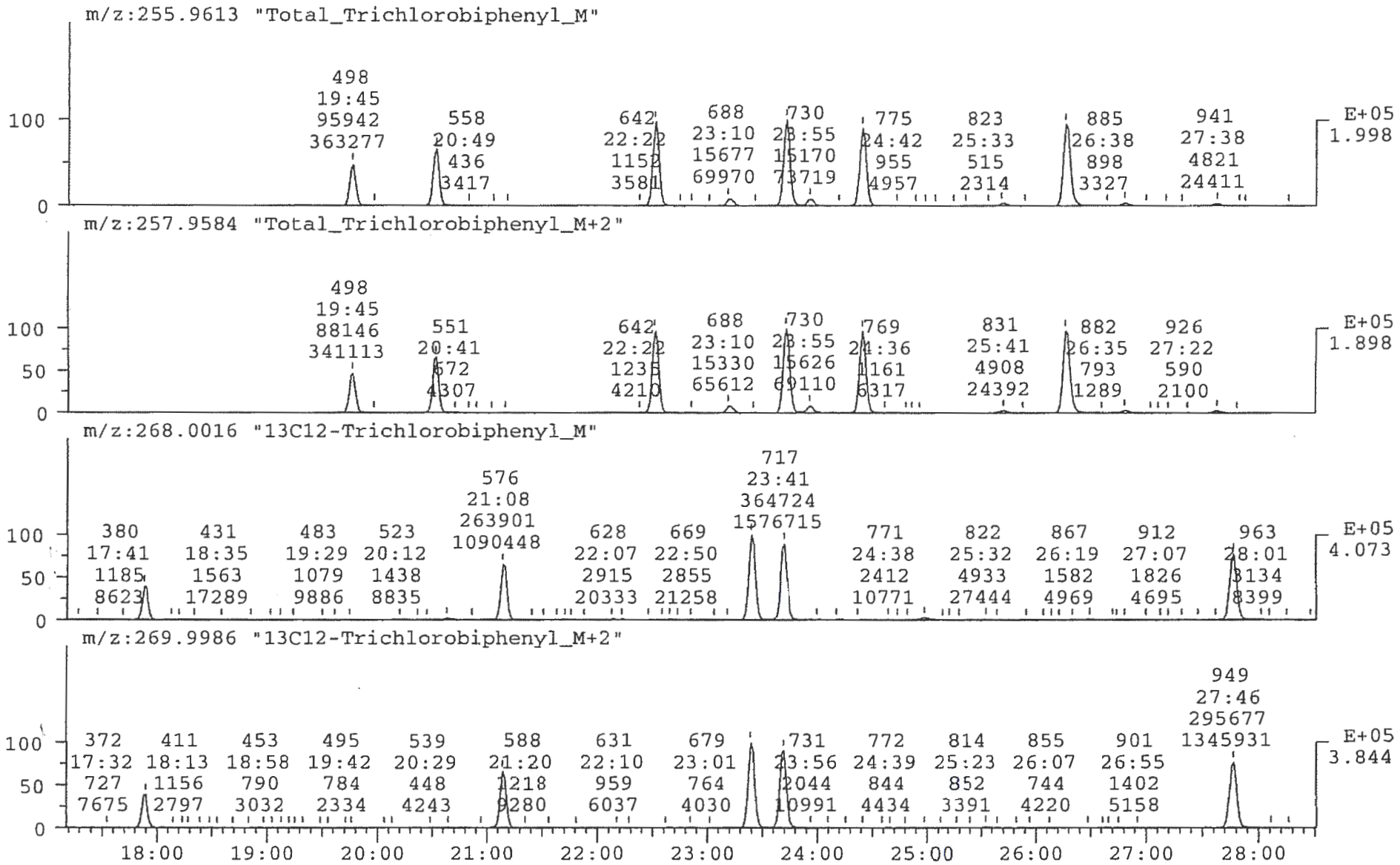
```
CHRO:  a07030723                                08-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11    2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



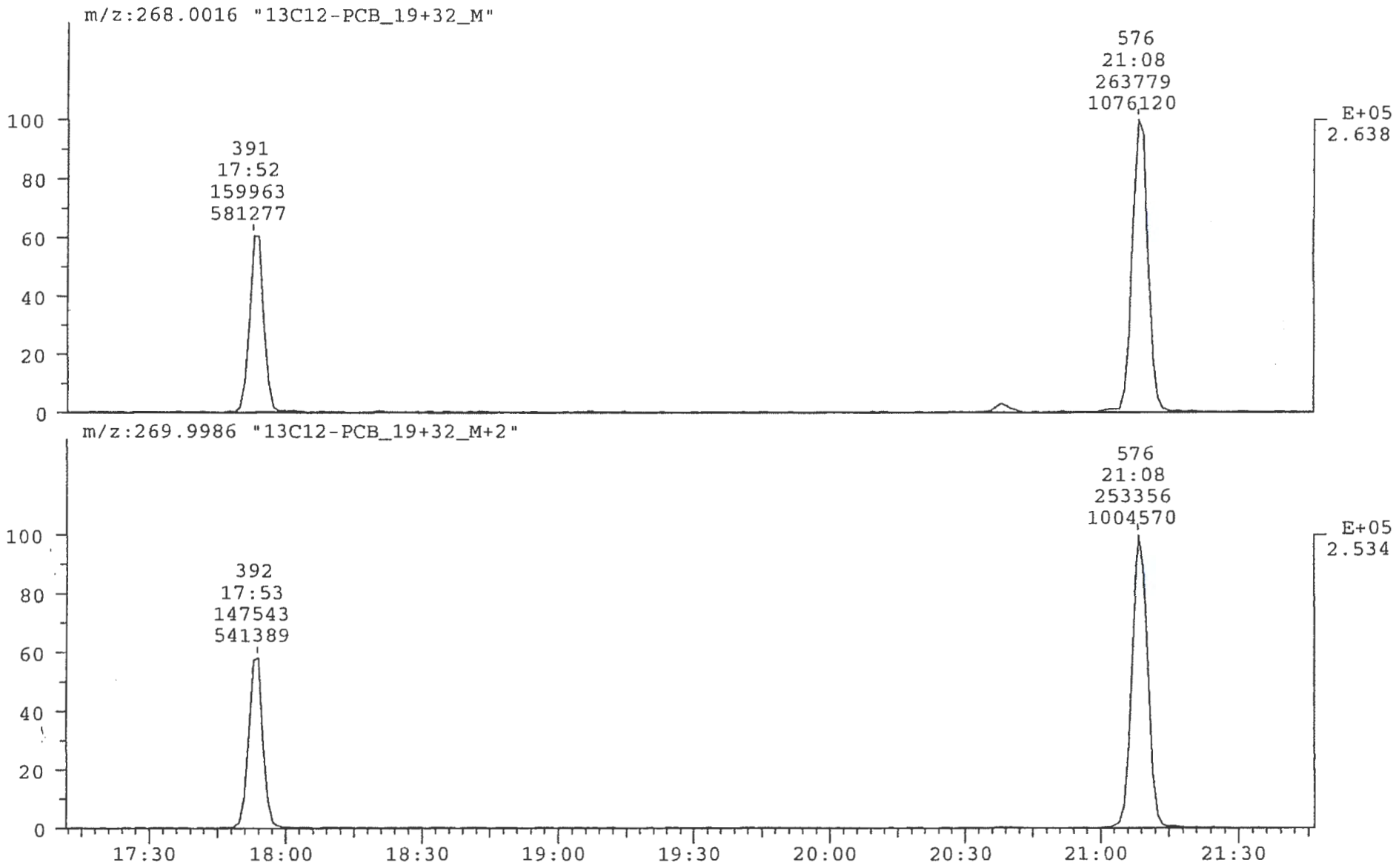
CHRO: a07030723 08-Mar-07 Elapse: 18:39.2 435
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 300 > 570 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



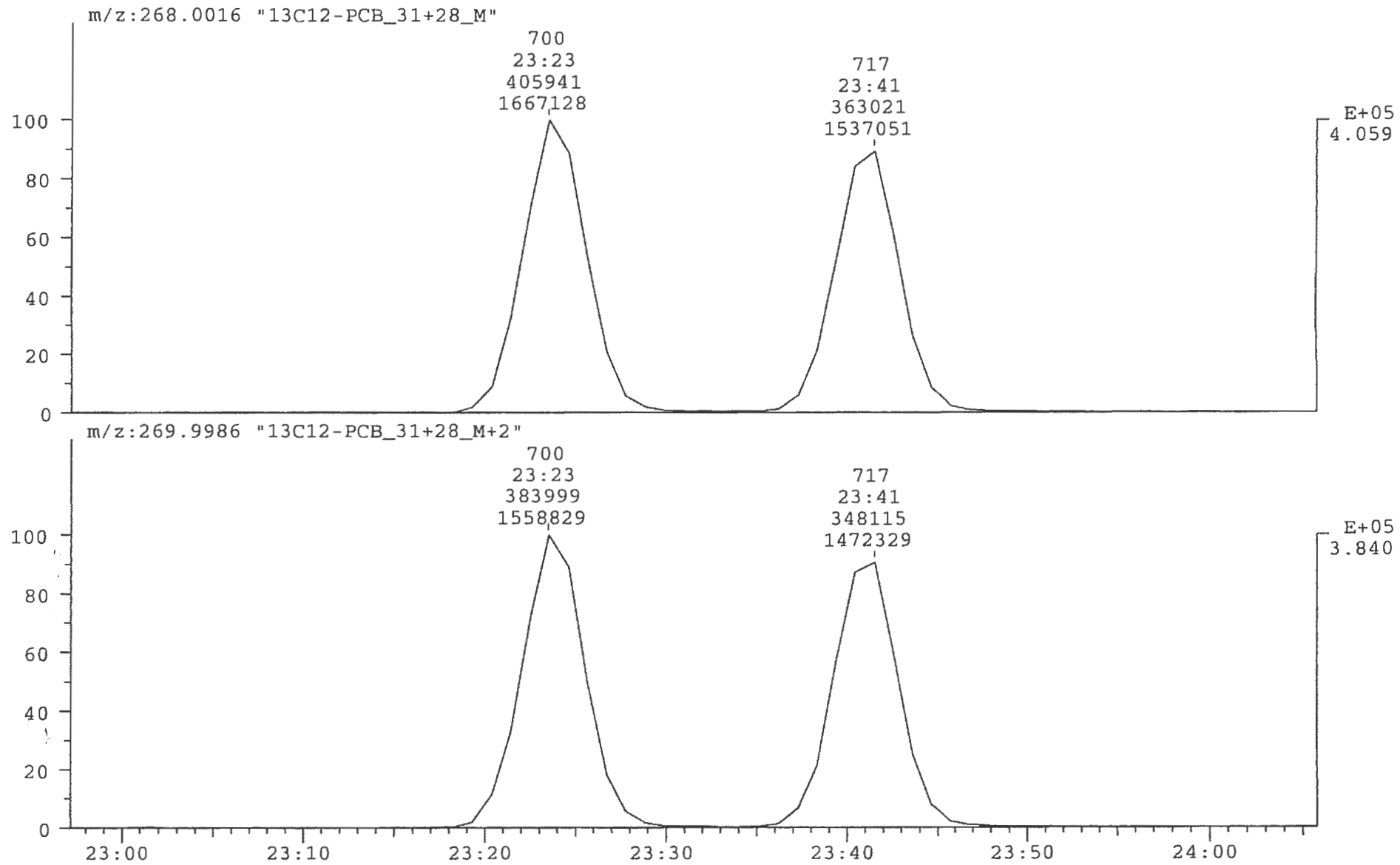
CHRO: a07030723 08-Mar-07 Elapse: 22:52.9 671
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030723                              08-Mar-07  Elapse:  19:18.3      472
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1              Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville             Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   352 > 612          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1              Label :  -3, 3.0
Disp:  Height  Area
```

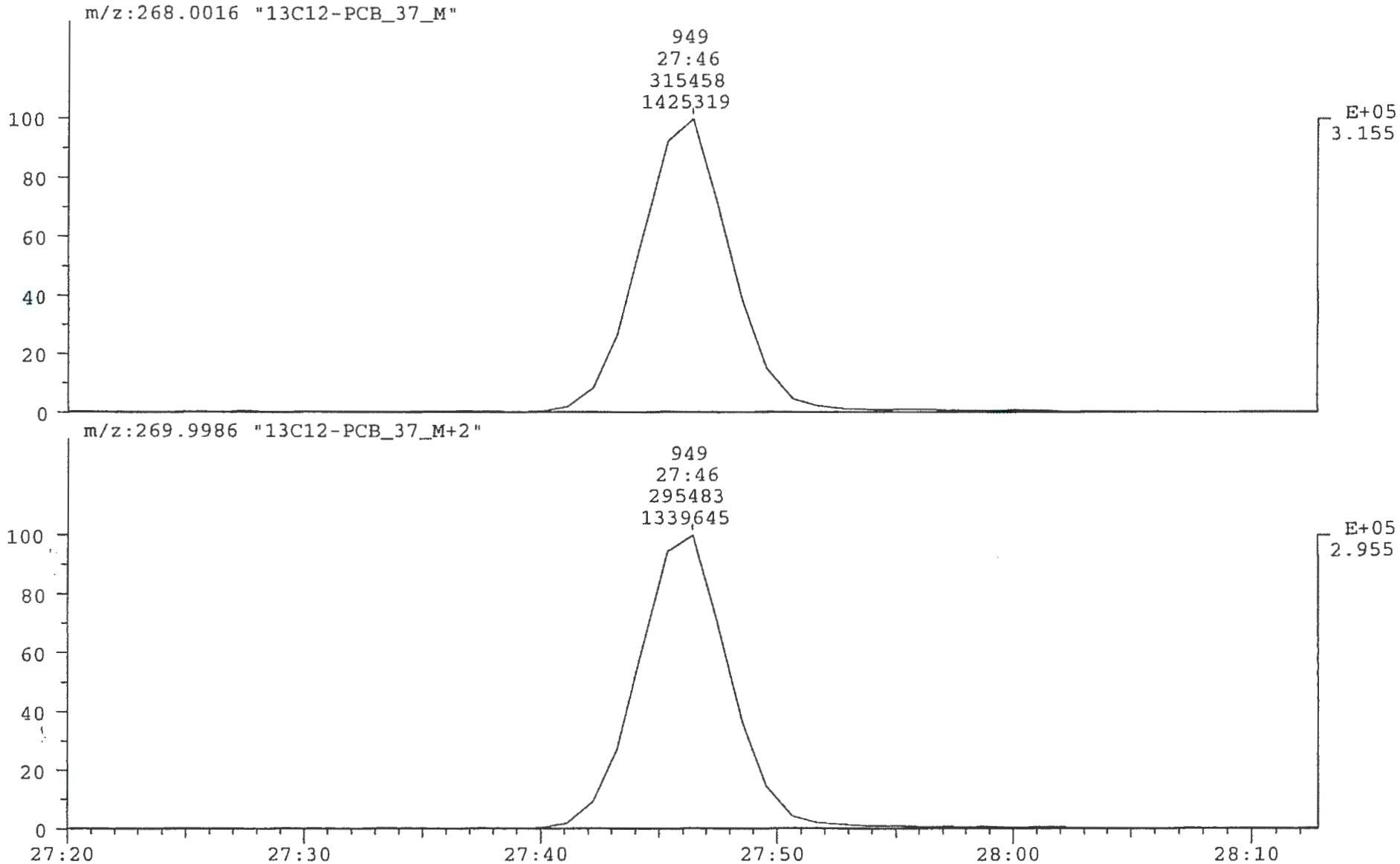


```
CHRO:  a07030723                              08-Mar-07   Elapse:  23:23.5      700
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   675 > 740           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

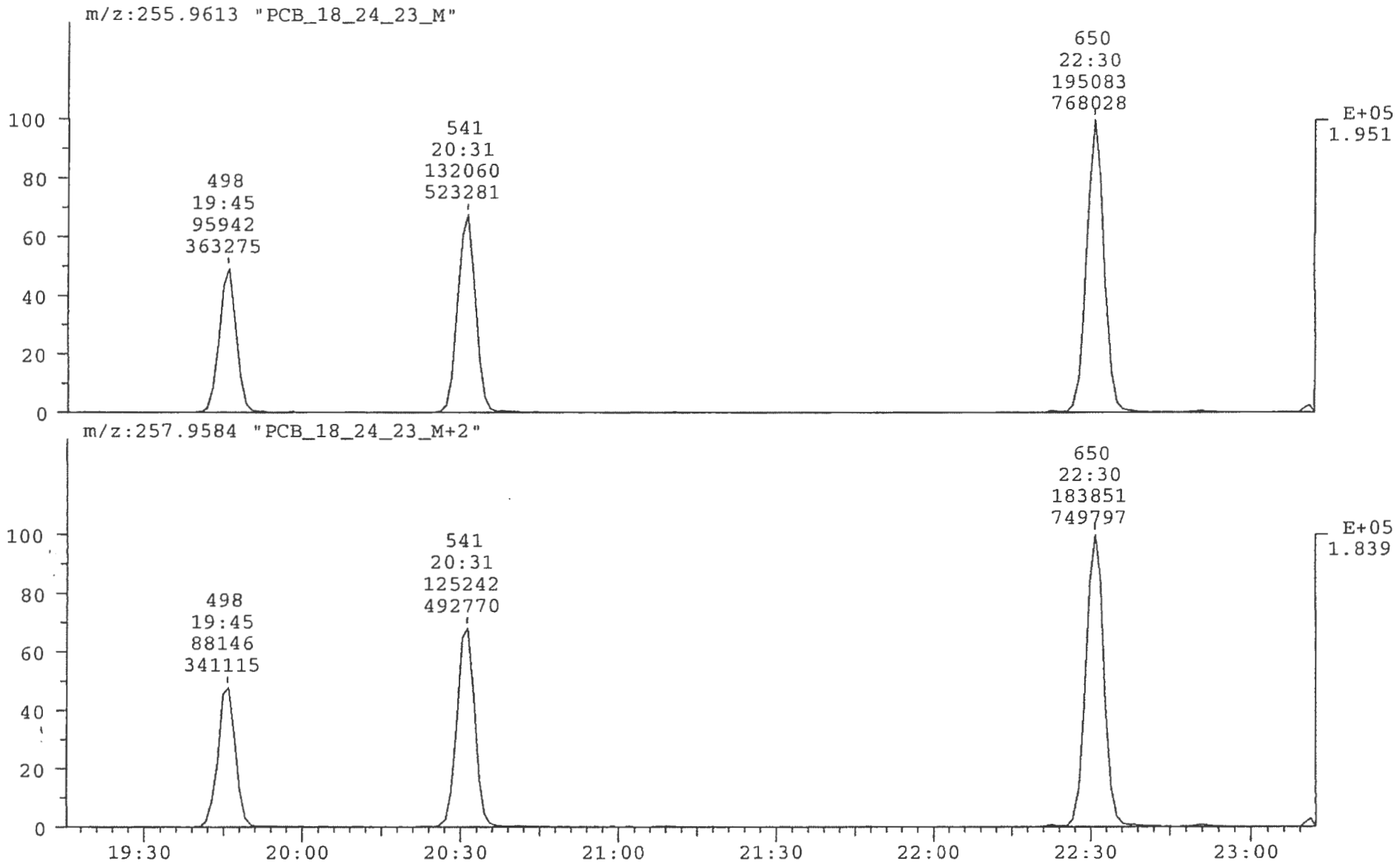


2166

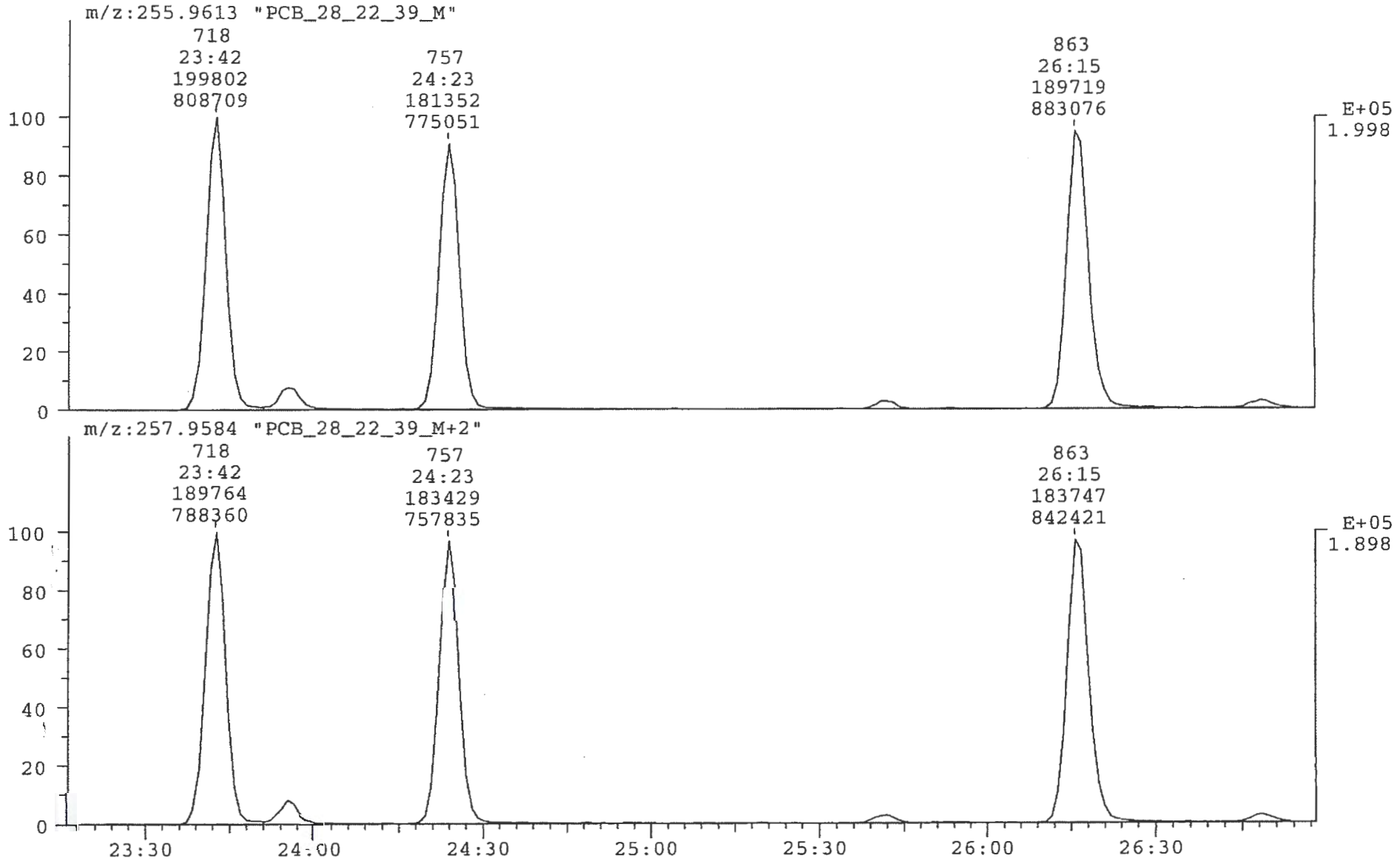
```
CHRO:  a07030723                              08-Mar-07   Elapse:  27:46.4      949
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   924 > 974           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



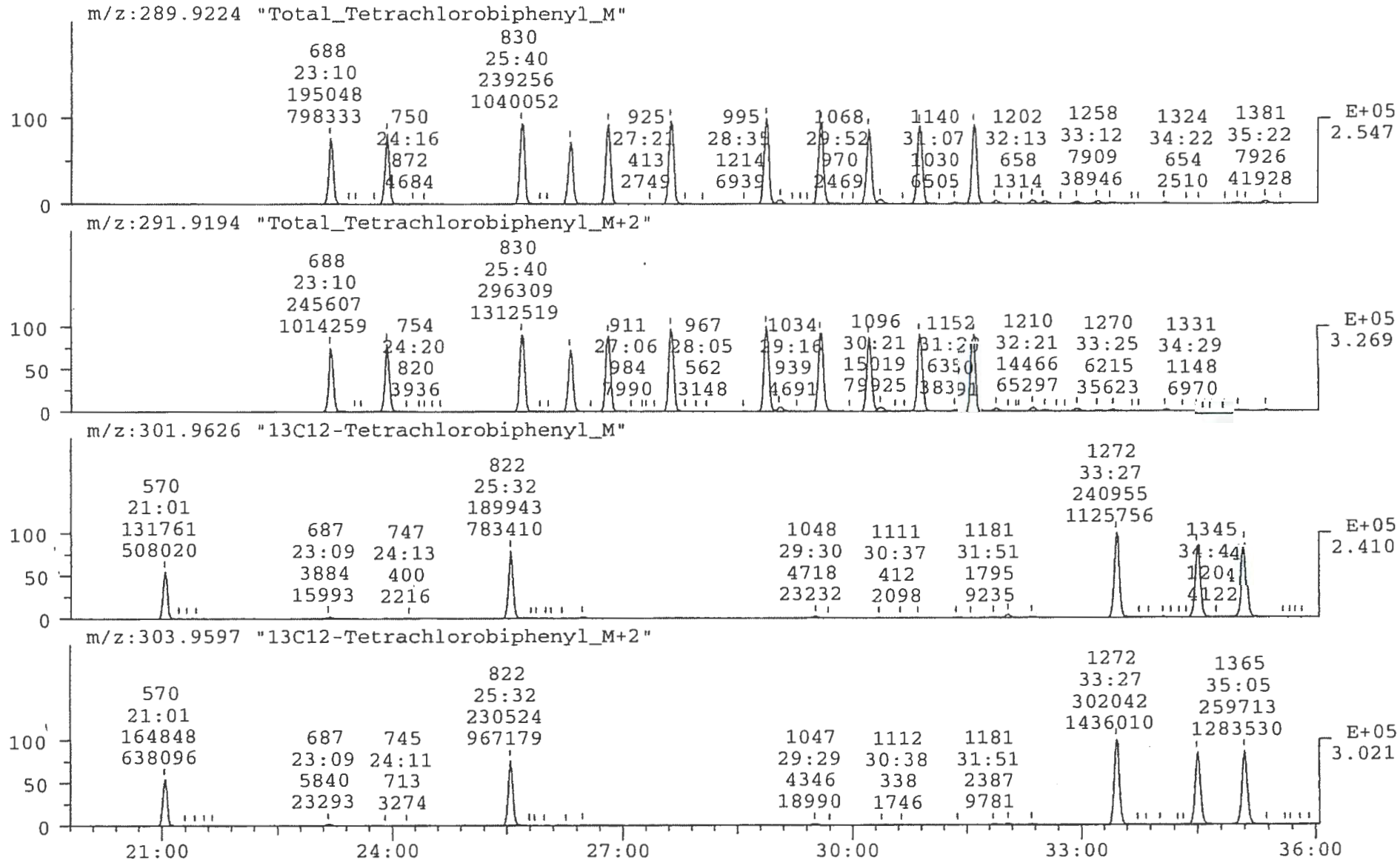
```
CHRO:  a07030723                                08-Mar-07  Elapse:  21:11.4      579
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   469 > 689           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



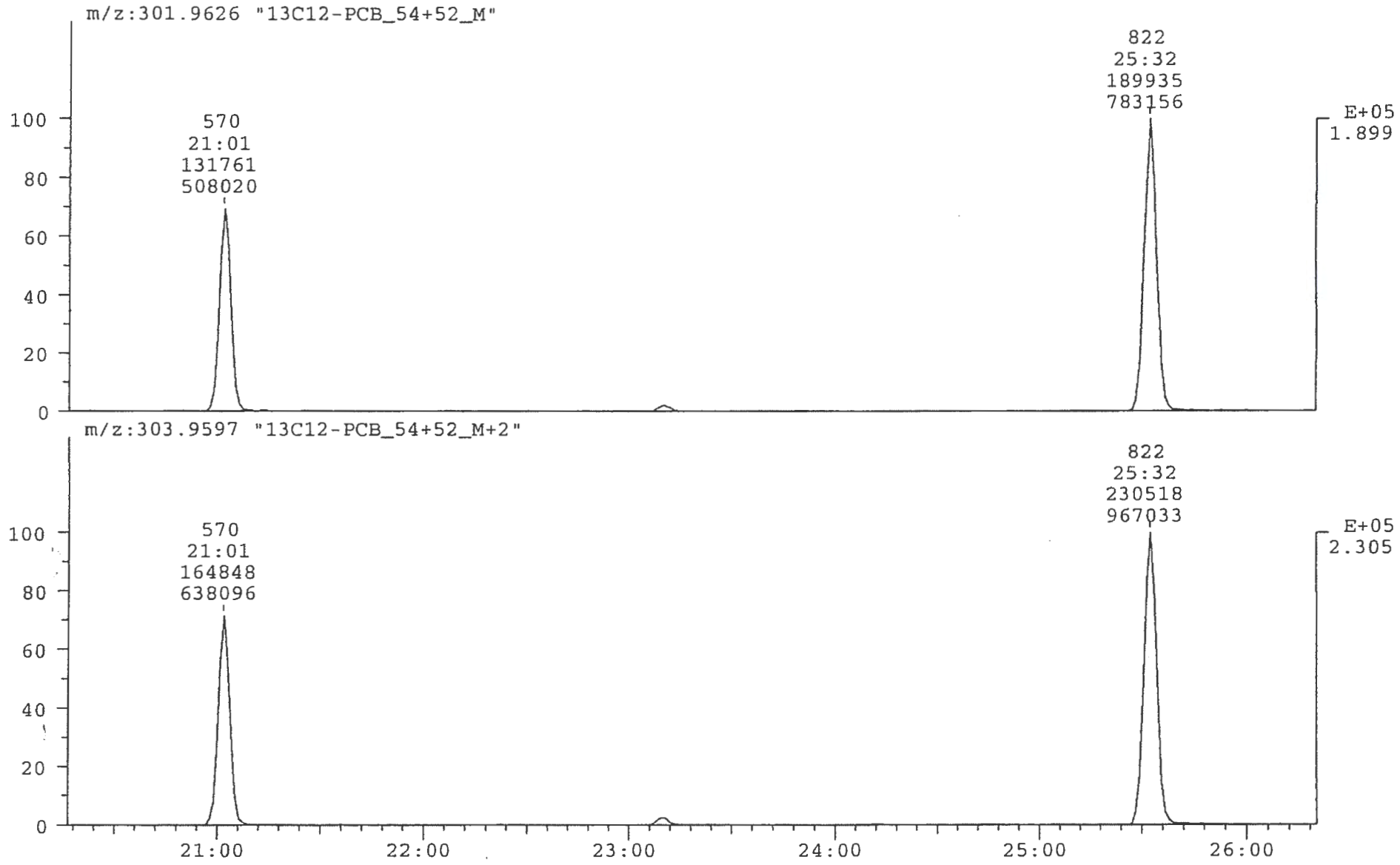
```
CHRO:  a07030723                                08-Mar-07   Elapse:  25:01.8      793
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   693 > 903             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030723 08-Mar-07 Elapse: 27:54.8 957
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 500 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

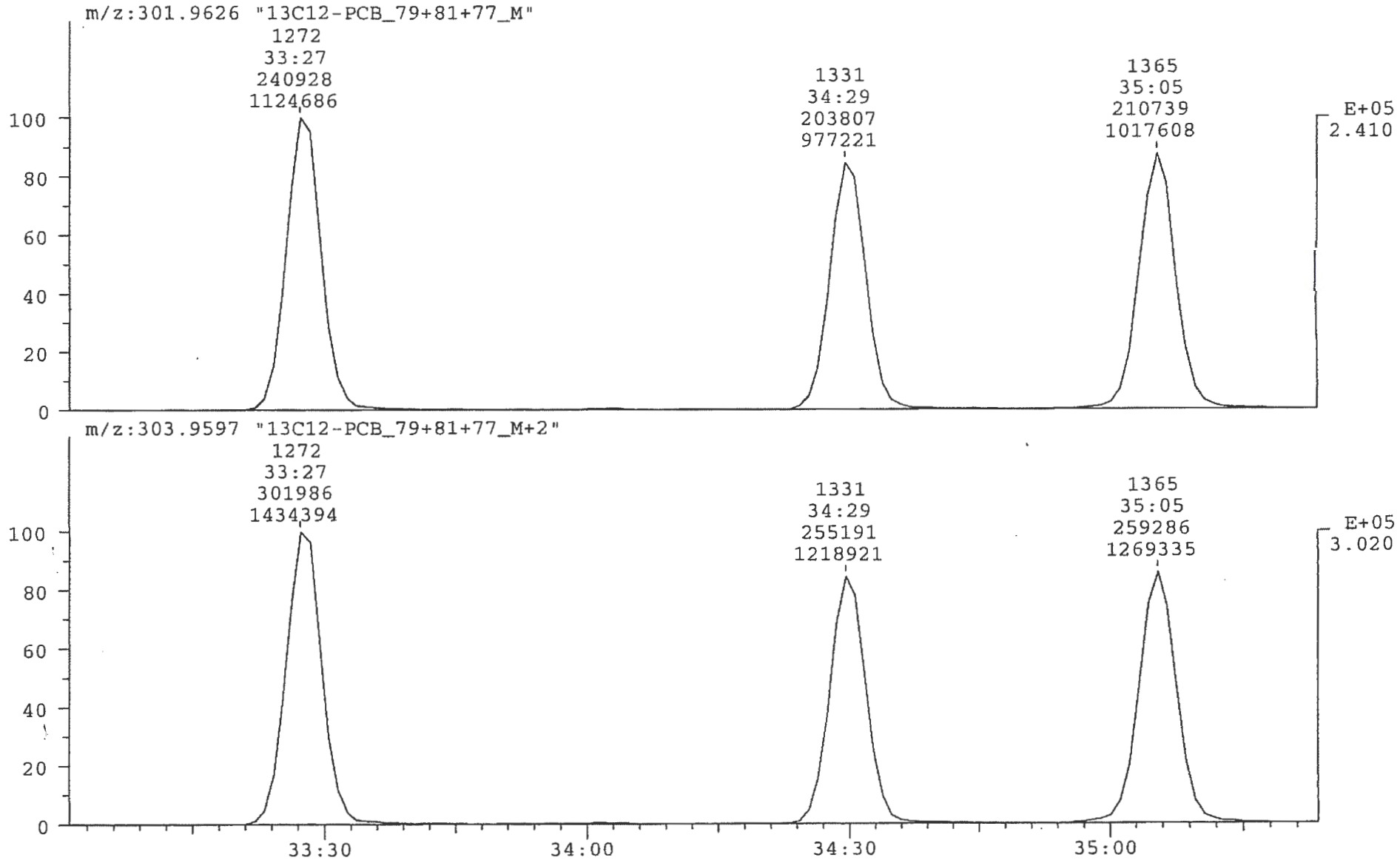


```
CHRO:  a07030723                              08-Mar-07  Elapse:  23:20.4      697
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1              Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                         Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville             Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   527 > 867          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3             Label :  -3, 3.0
Disp:  Height  Area
```



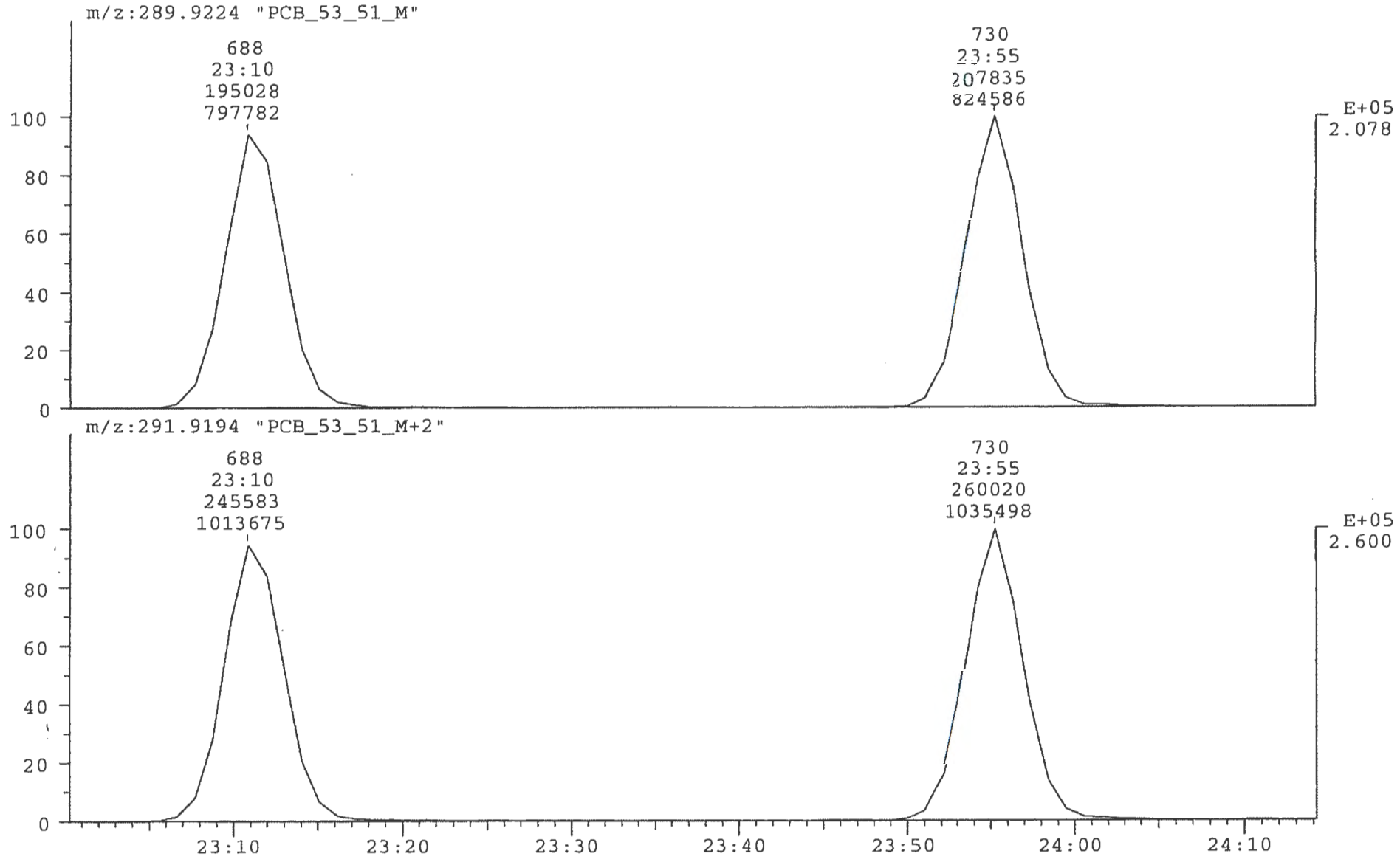
2171

CHRO: a07030723 08-Mar-07 Elapse: 34:14 1317
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1247 > 1382 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

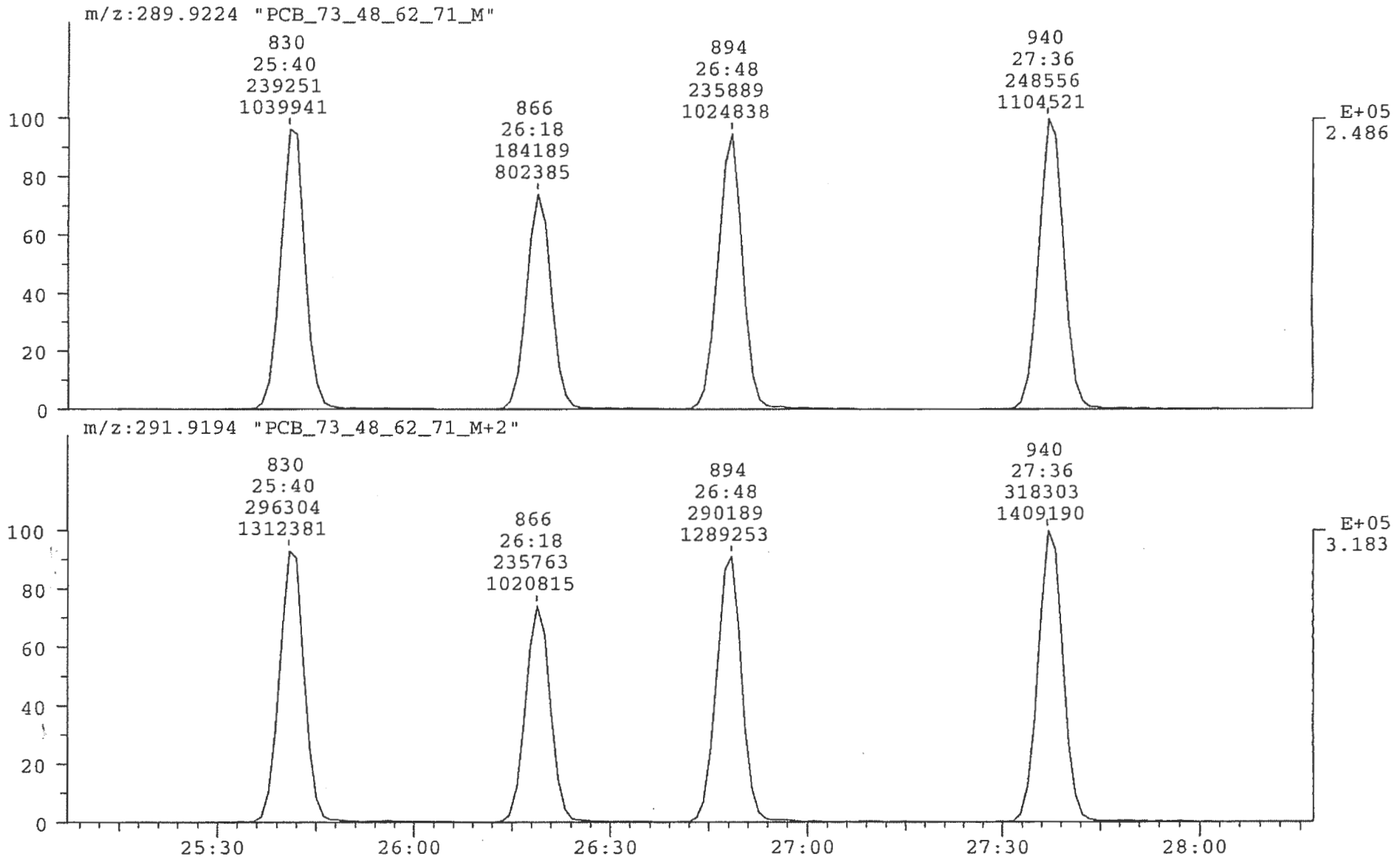


217:2

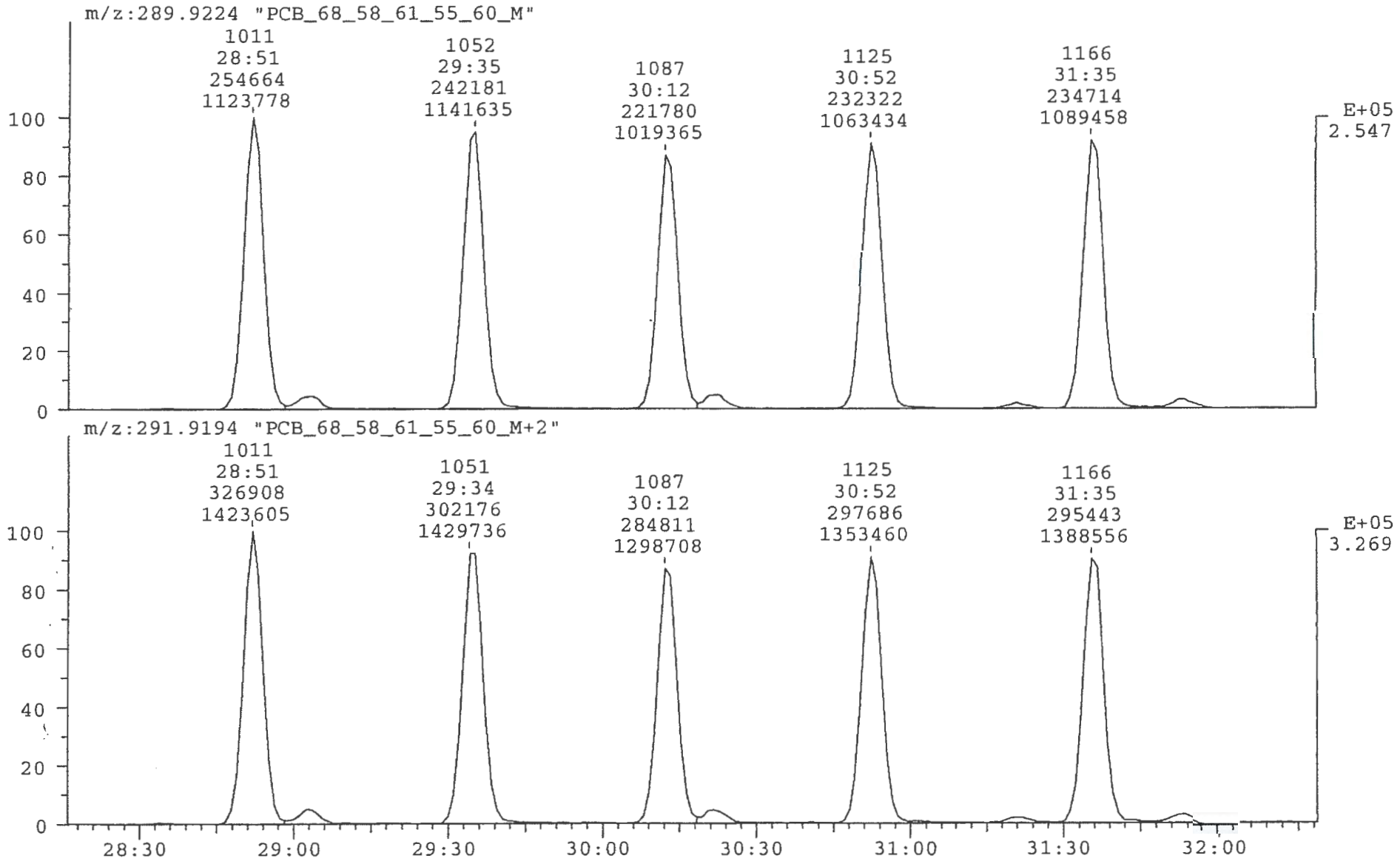
```
CHRO:  a07030723                                08-Mar-07   Elapse:  23:42.5      718
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   678 > 748             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



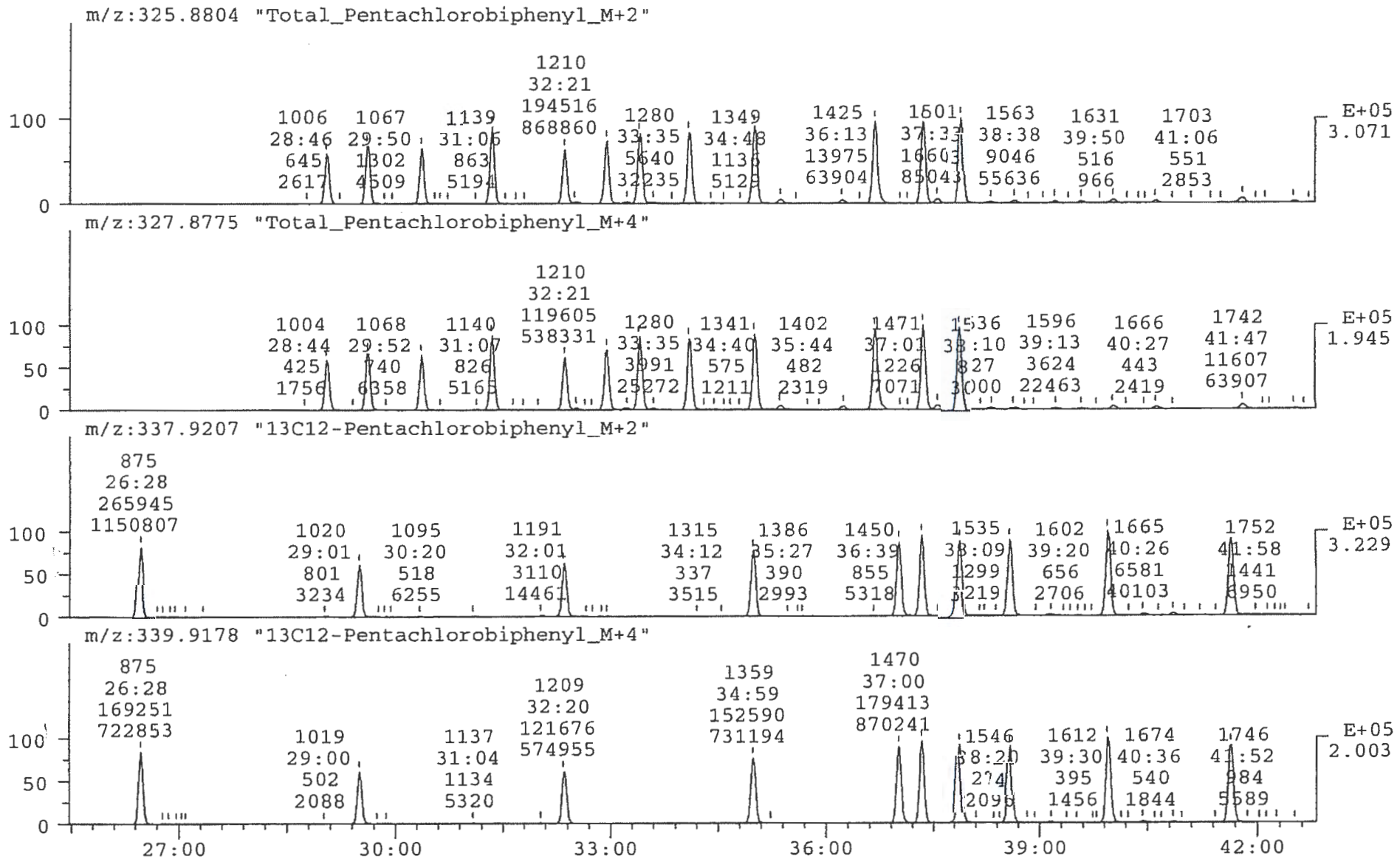
```
CHRO:  a07030723                                08-Mar-07   Elapse:  26:42.9      888
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   798 > 978             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030723                                08-Mar-07   Elapse:  30:17      1092
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   977 > 1207            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

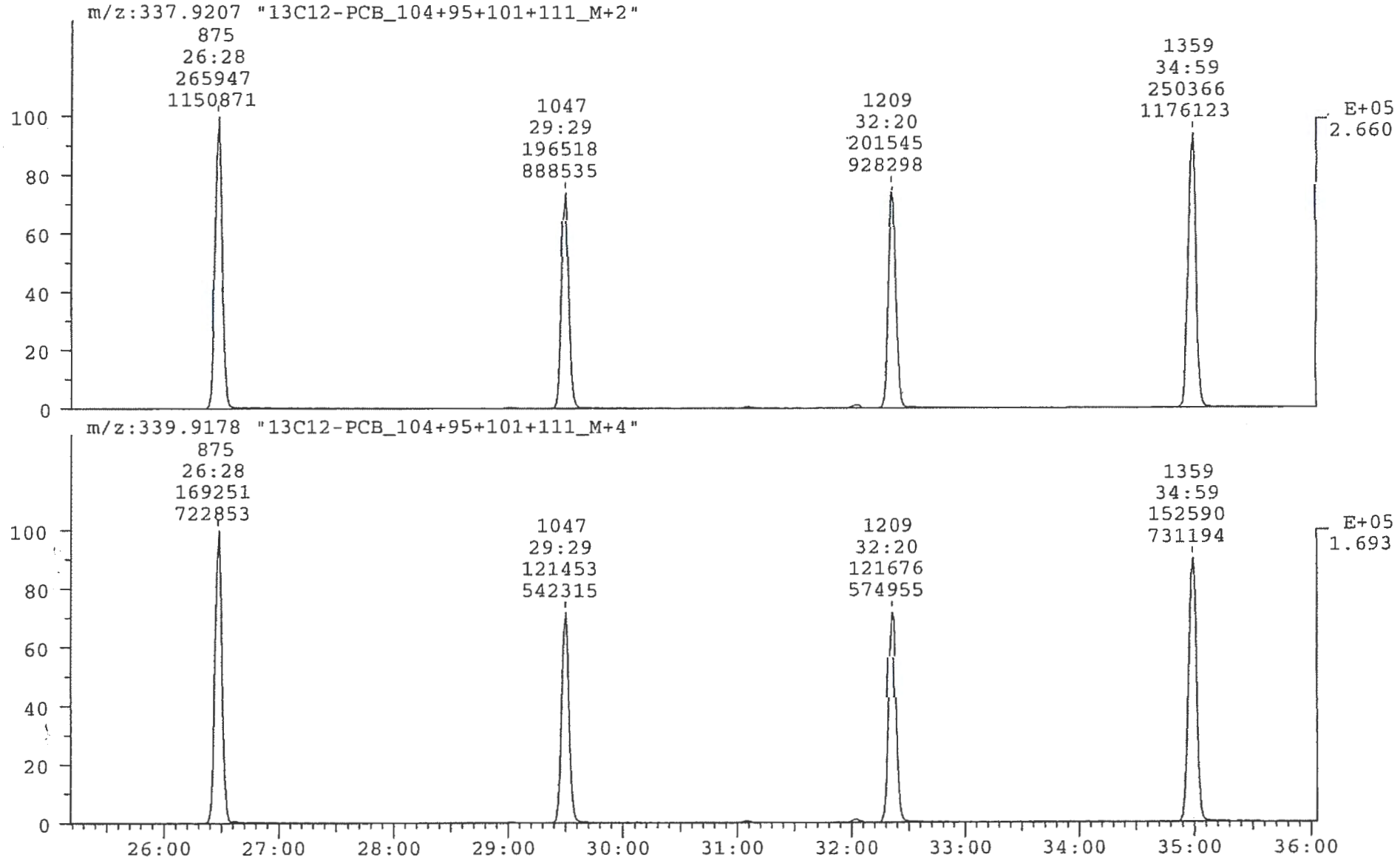


CHRO: a07030723 08-Mar-07 Elapse: 34:08 1311
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 818 > 1799 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



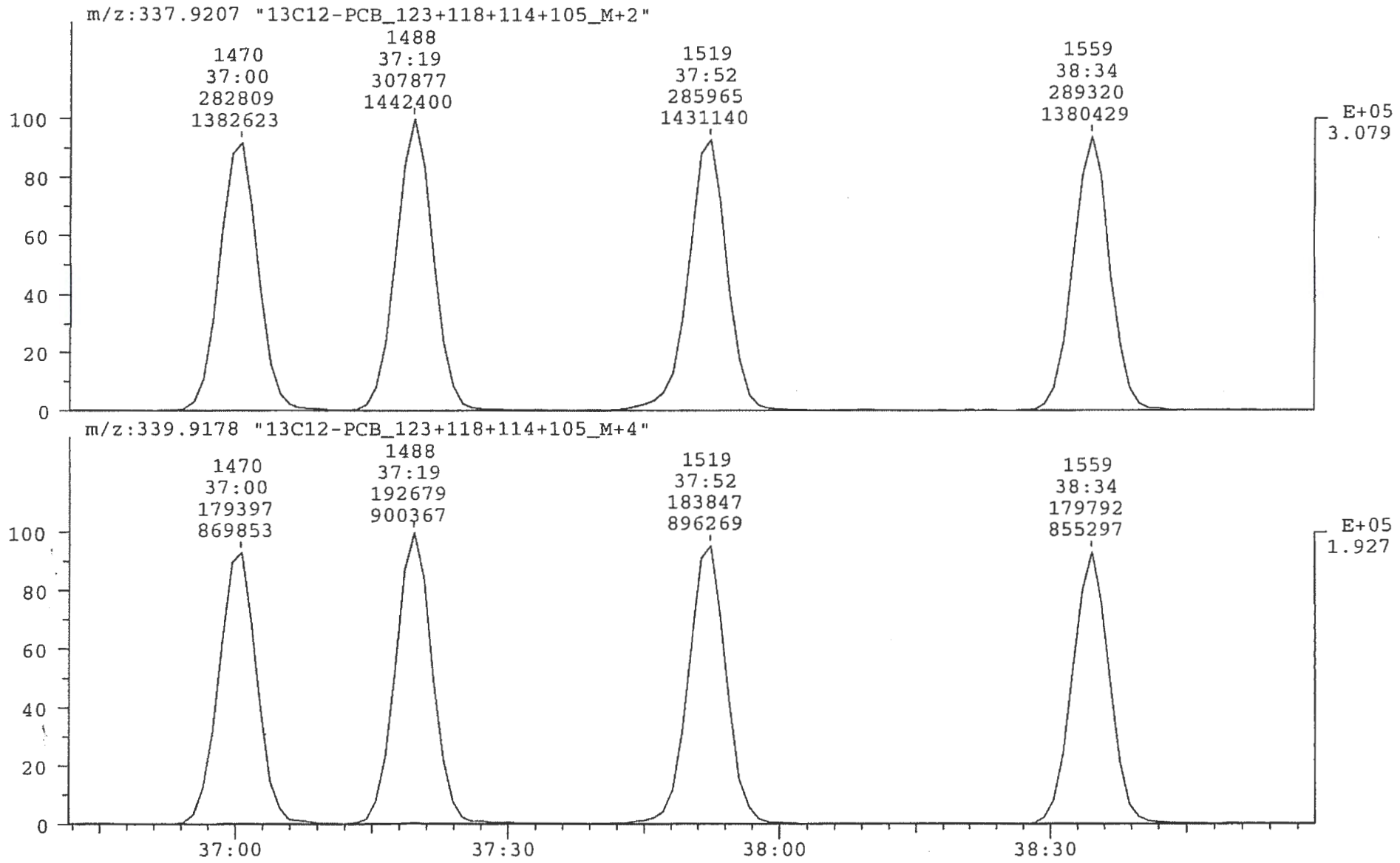
2176

CHRO: a07030723 08-Mar-07 Elapse: 30:37 1111
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 802 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

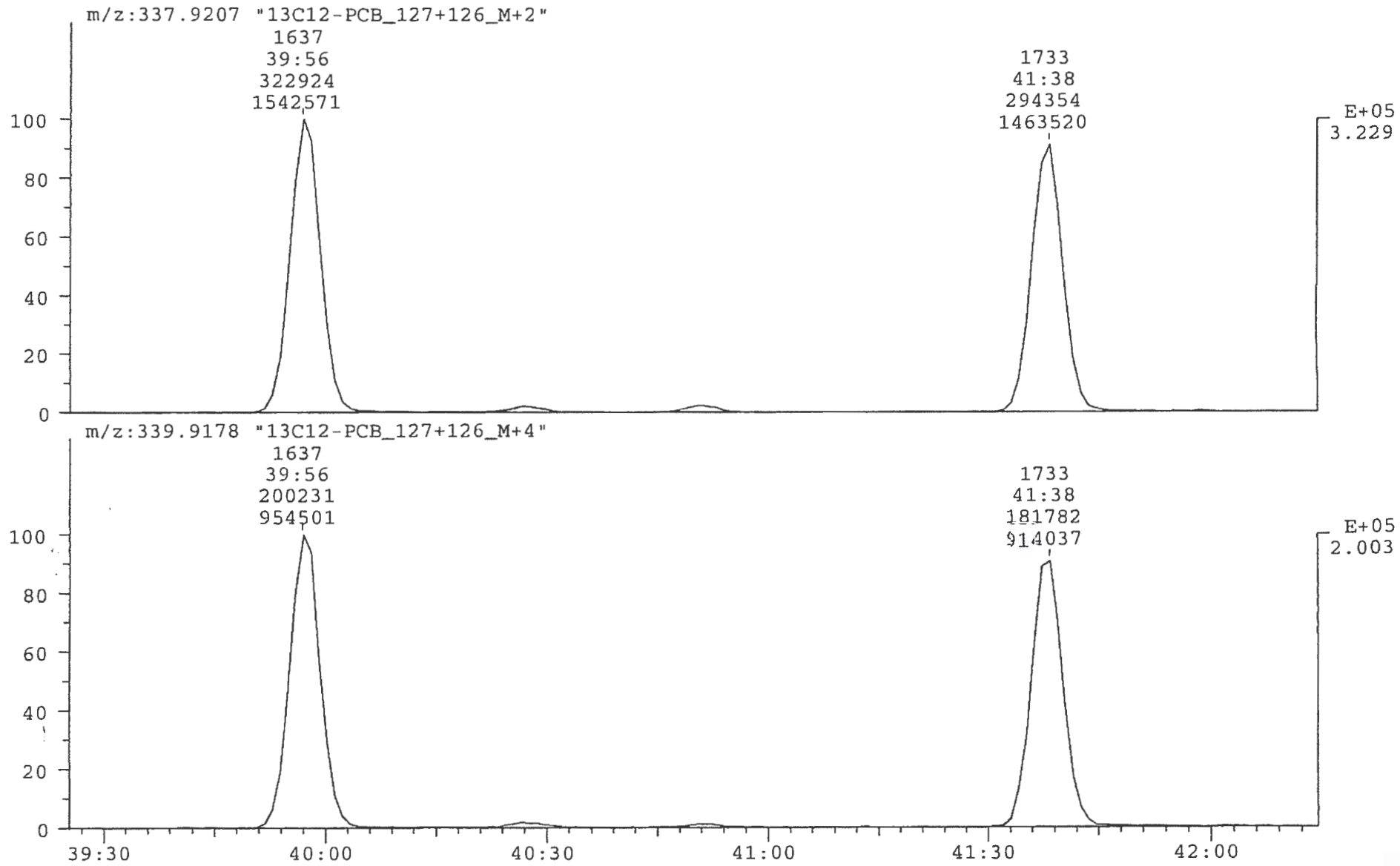


2177

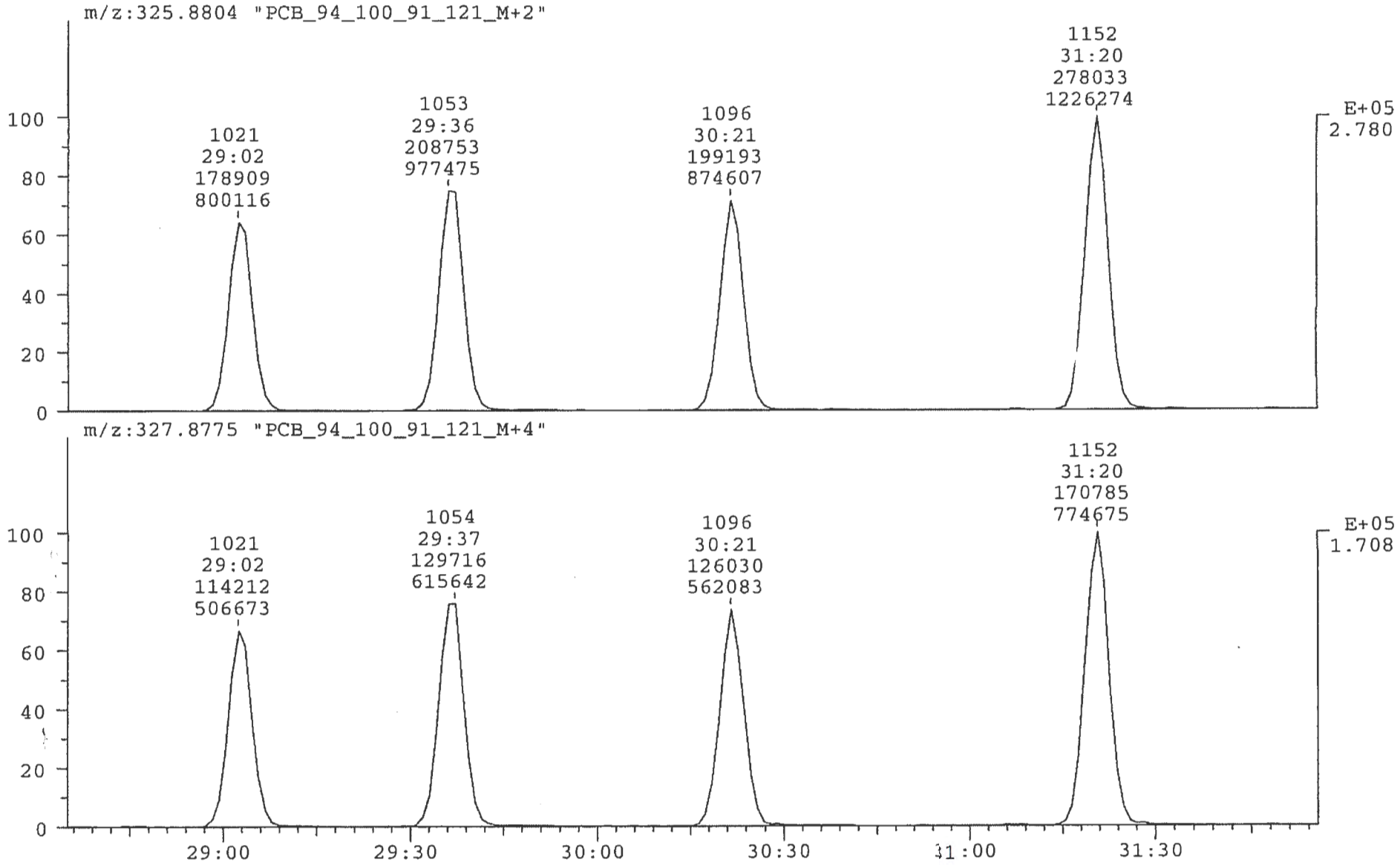
```
CHRO:  a07030723                                08-Mar-07   Elapse:  37:50      1517
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1452 > 1582           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



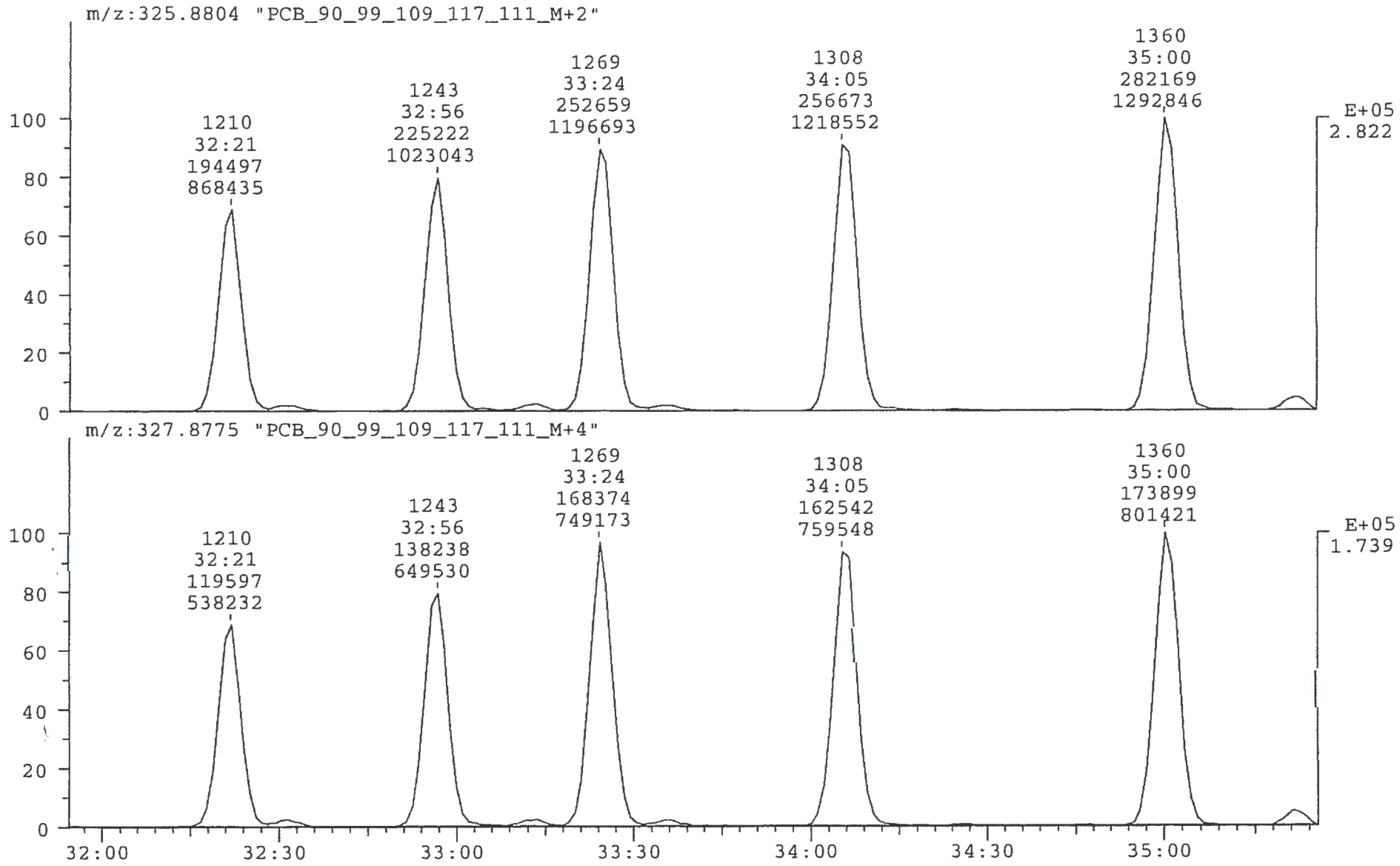
CHRO: a07030723 08-Mar-07 Elapse: 40:49 1687
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1607 > 1767 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



CHRO: a07030723 08-Mar-07 Elapse: 30:15 1090
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 995 > 1185 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

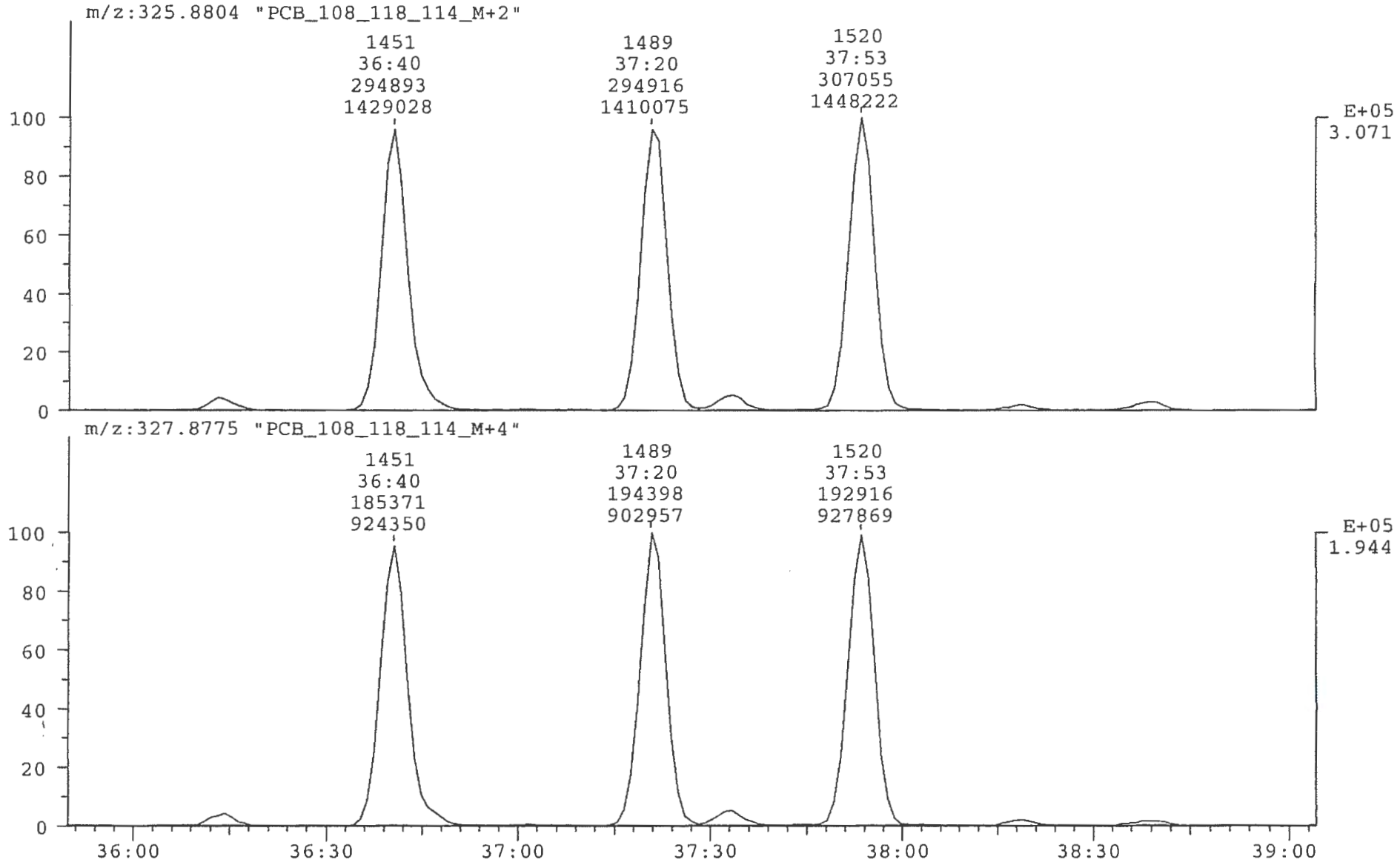


CHRO: a07030723 08-Mar-07 Elapse: 33:39 1284
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1184 > 1384 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

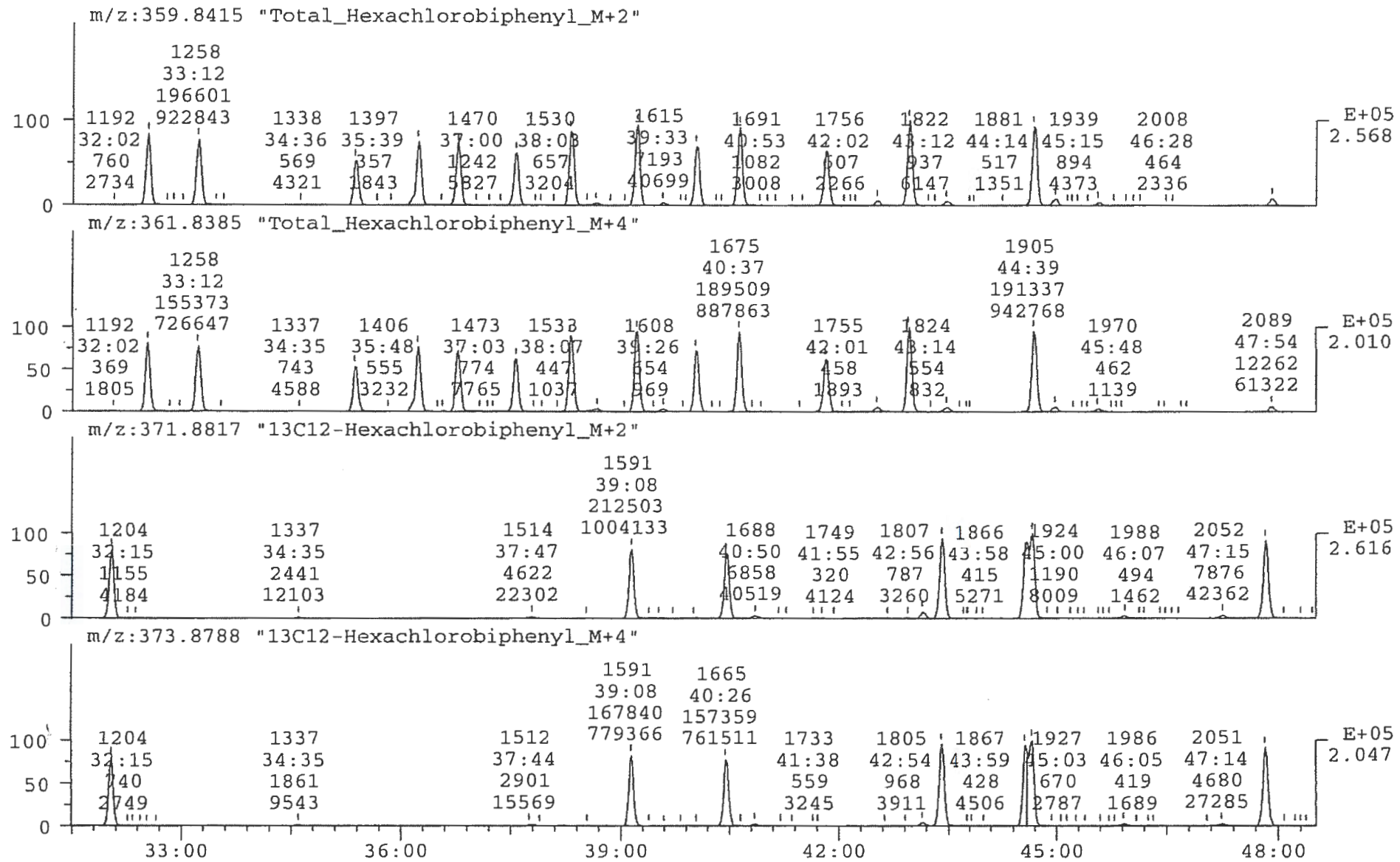


2181

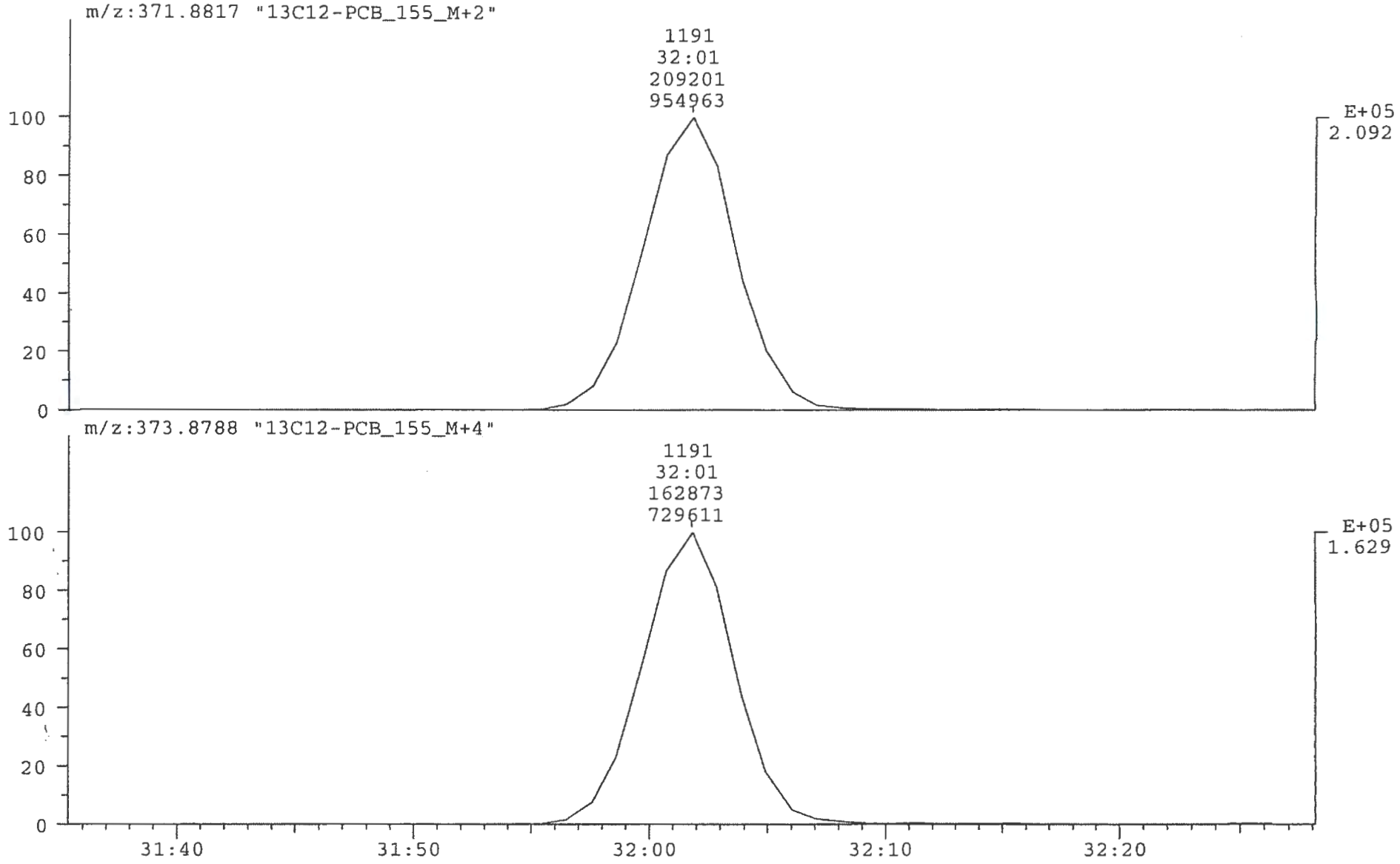
```
CHRO:  a07030723                                08-Mar-07   Elapse:  37:29      1497
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1407 > 1587           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



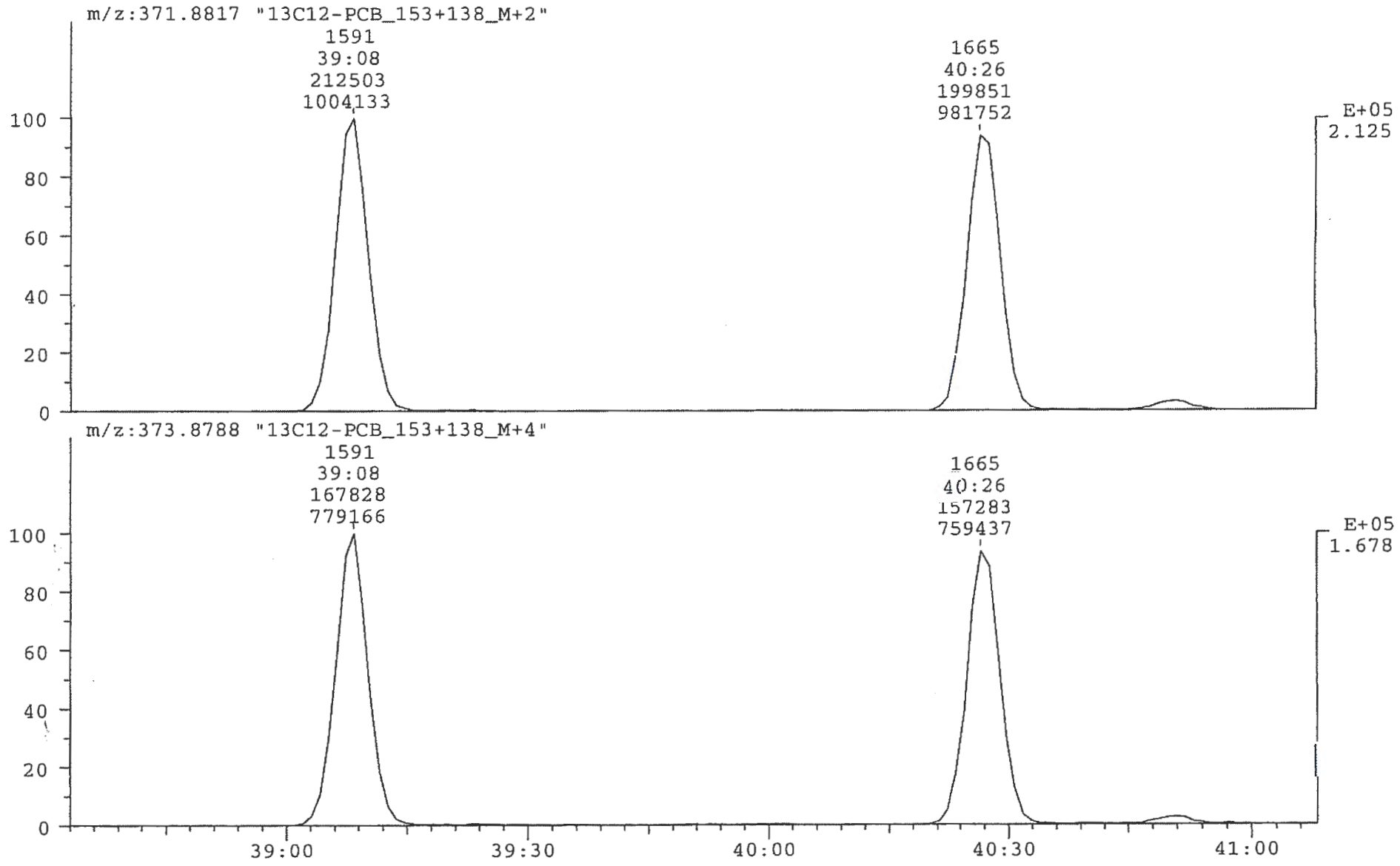
CHRO: a07030723 08-Mar-07 Elapse: 39:59 1639
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1160 > 2123 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



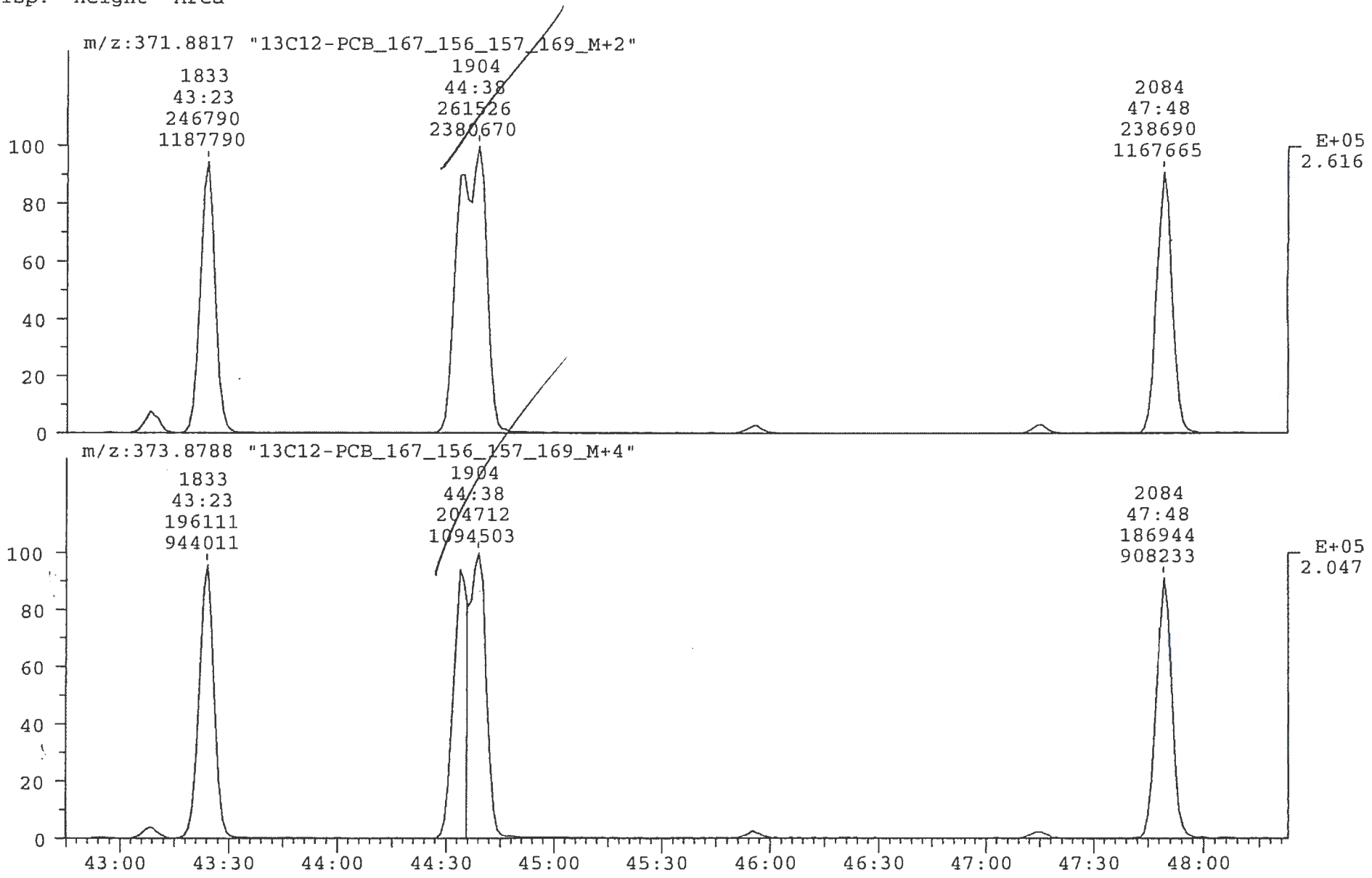
```
CHRO:  a07030723                              08-Mar-07   Elapse:  32:01      1191
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  04:22:11   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1166 > 1216         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030723 08-Mar-07 Elapse: 39:49 1630
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1558 > 1704 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

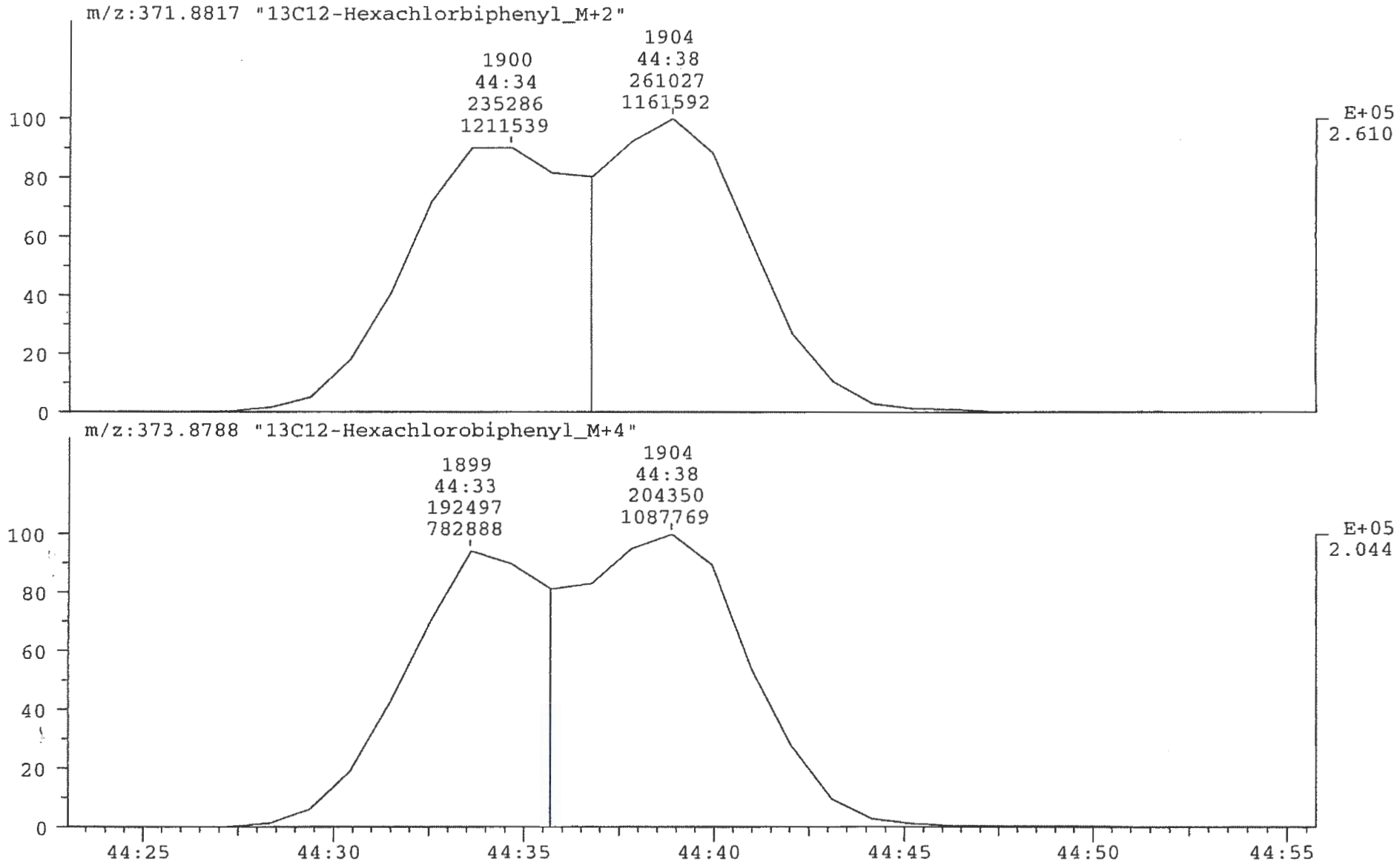


CHRO: a07030723 08-Mar-07 Elapse: 45:39 1961
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1796 > 2116 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

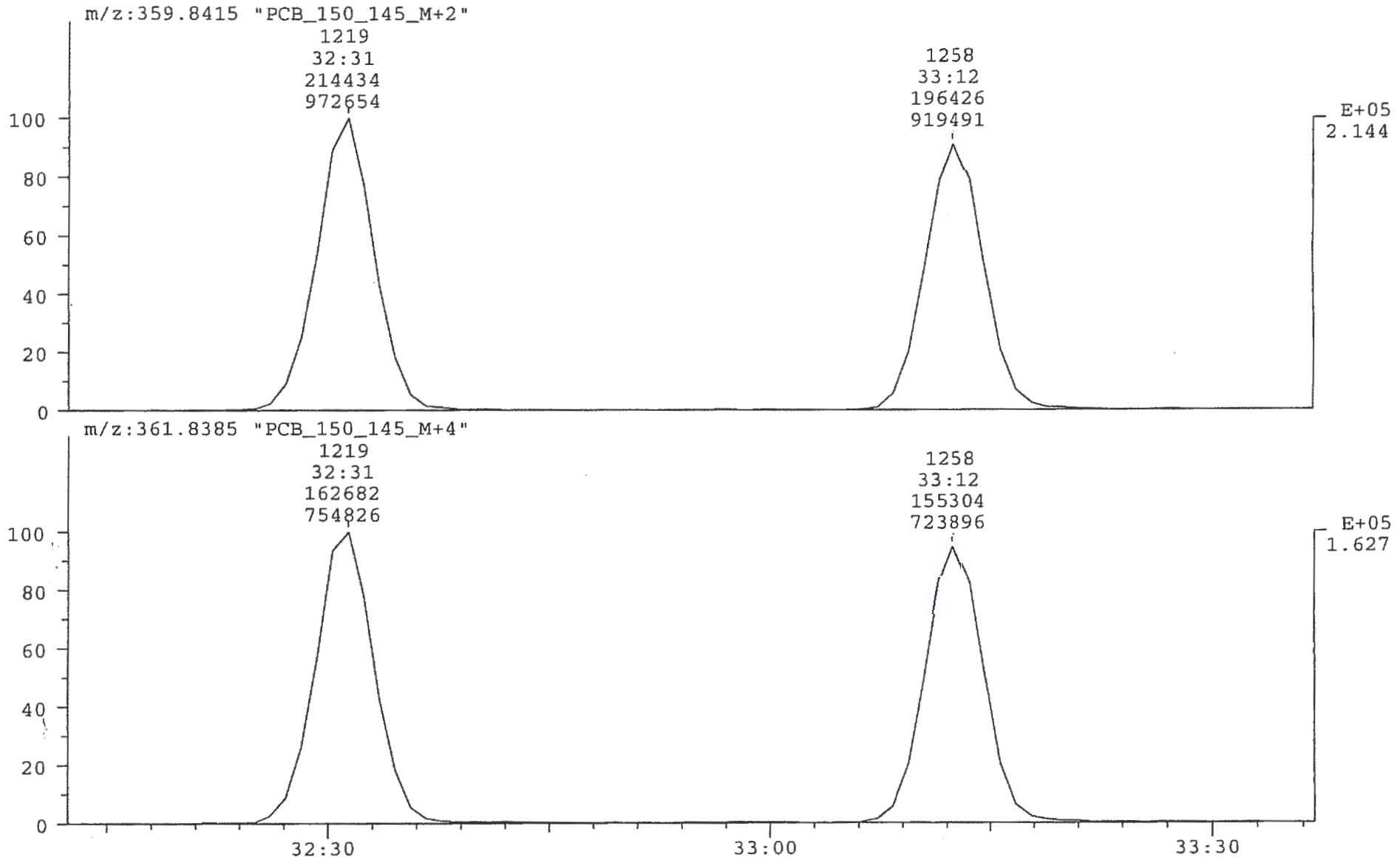


2186

```
CHRO:  a07030723                                08-Mar-07   Elapse:  56:11      2555
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1889 > 1920           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 2                Label :  -3, 3.0
Disp:  Height  Area
```

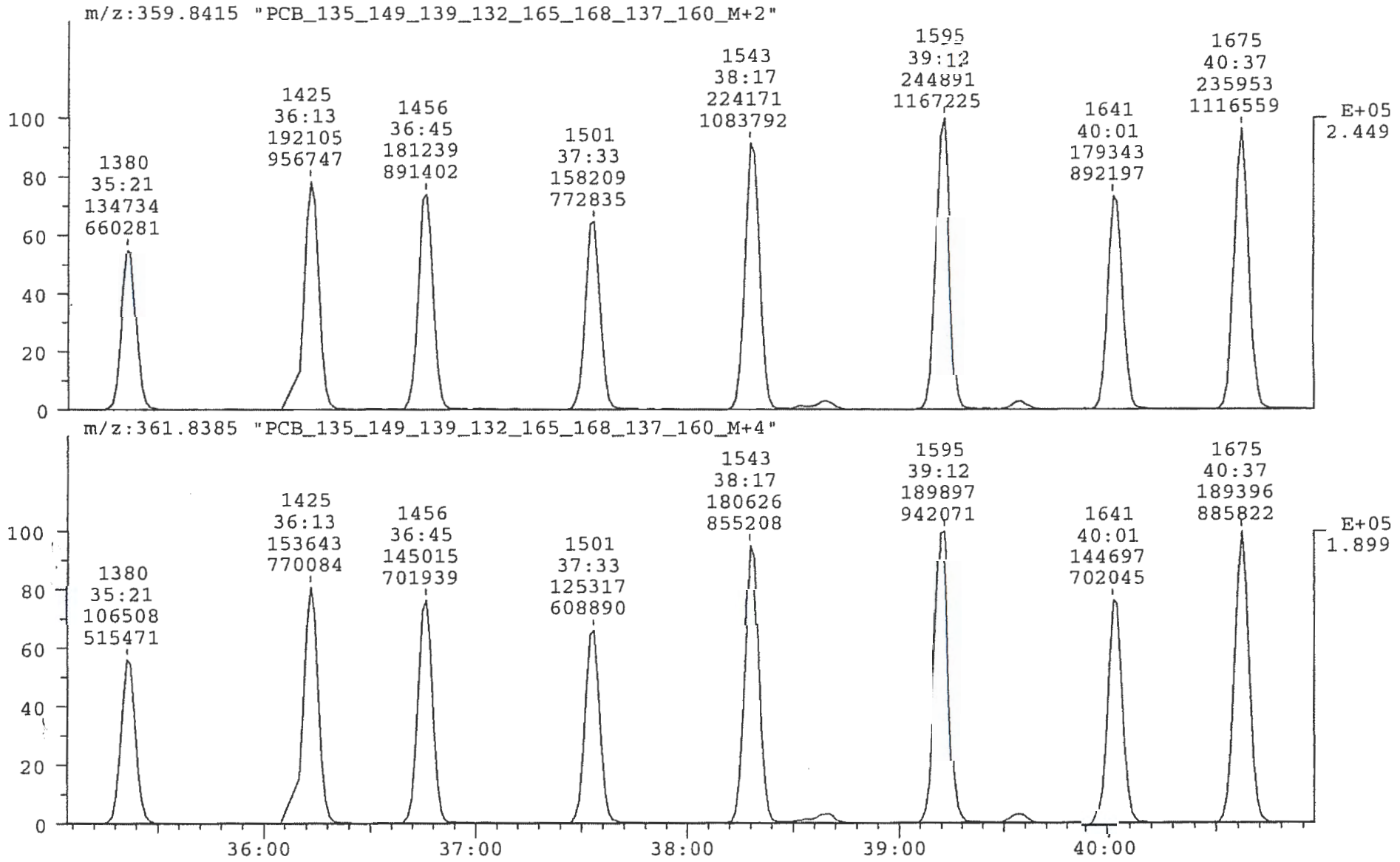


```
CHRO:  a07030723                                08-Mar-07   Elapse:  32:54      1241
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1201 > 1281           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



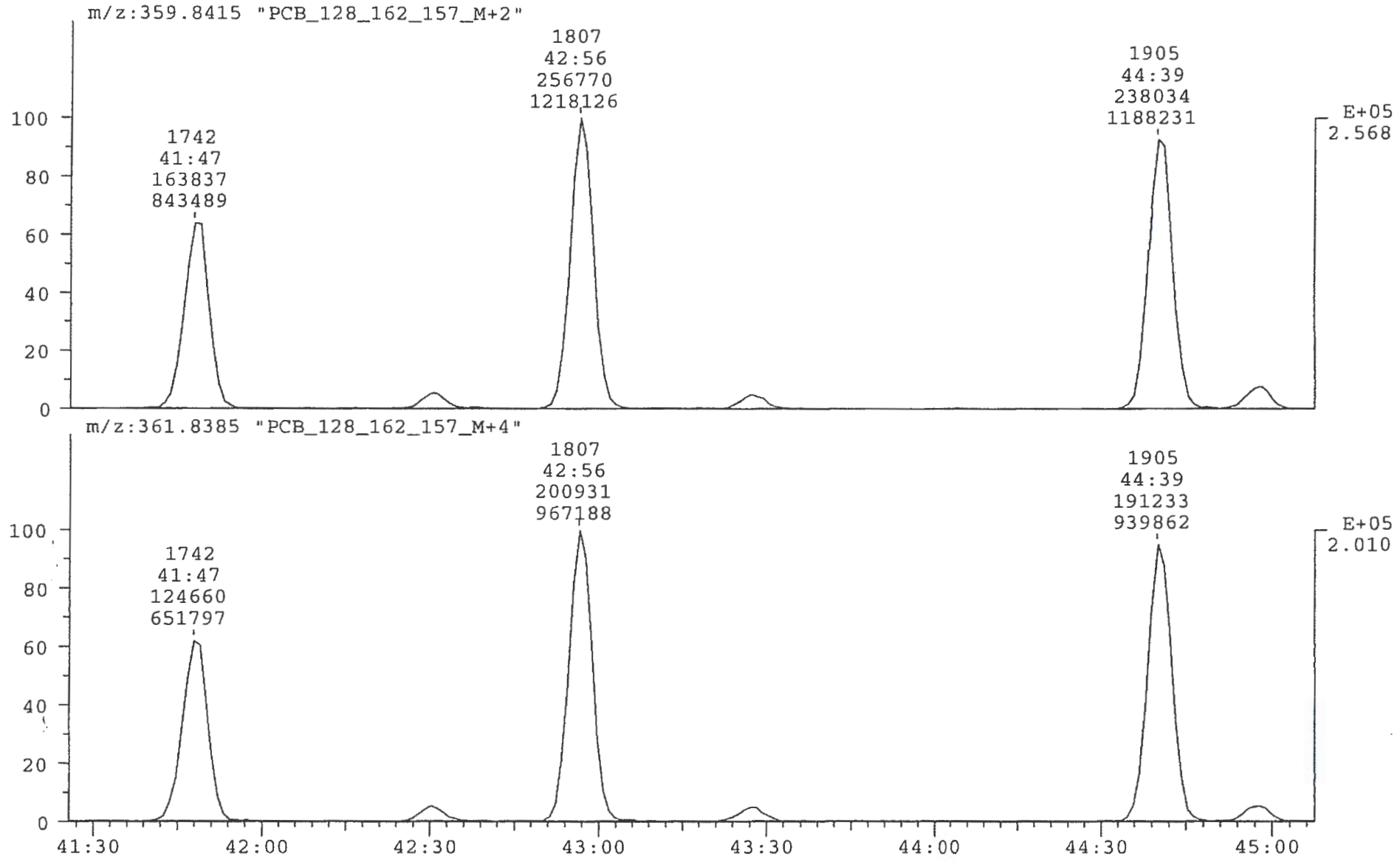
21.88

CHRO: a07030723 08-Mar-07 Elapse: 38:02 1529
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1364 > 1694 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

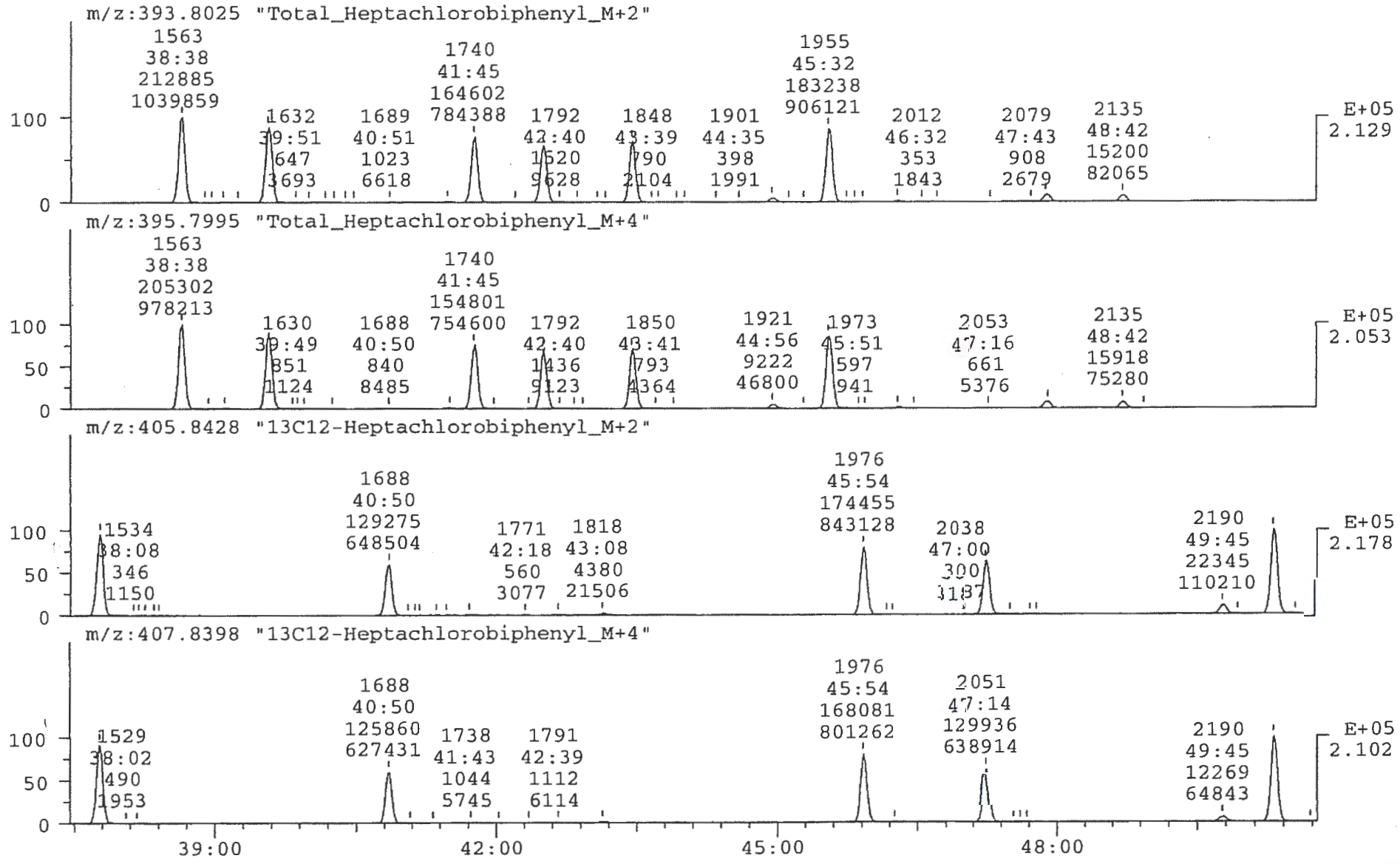


218.9

CHRO: a07030723 08-Mar-07 Elapse: 43:16 1826
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1721 > 1931 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

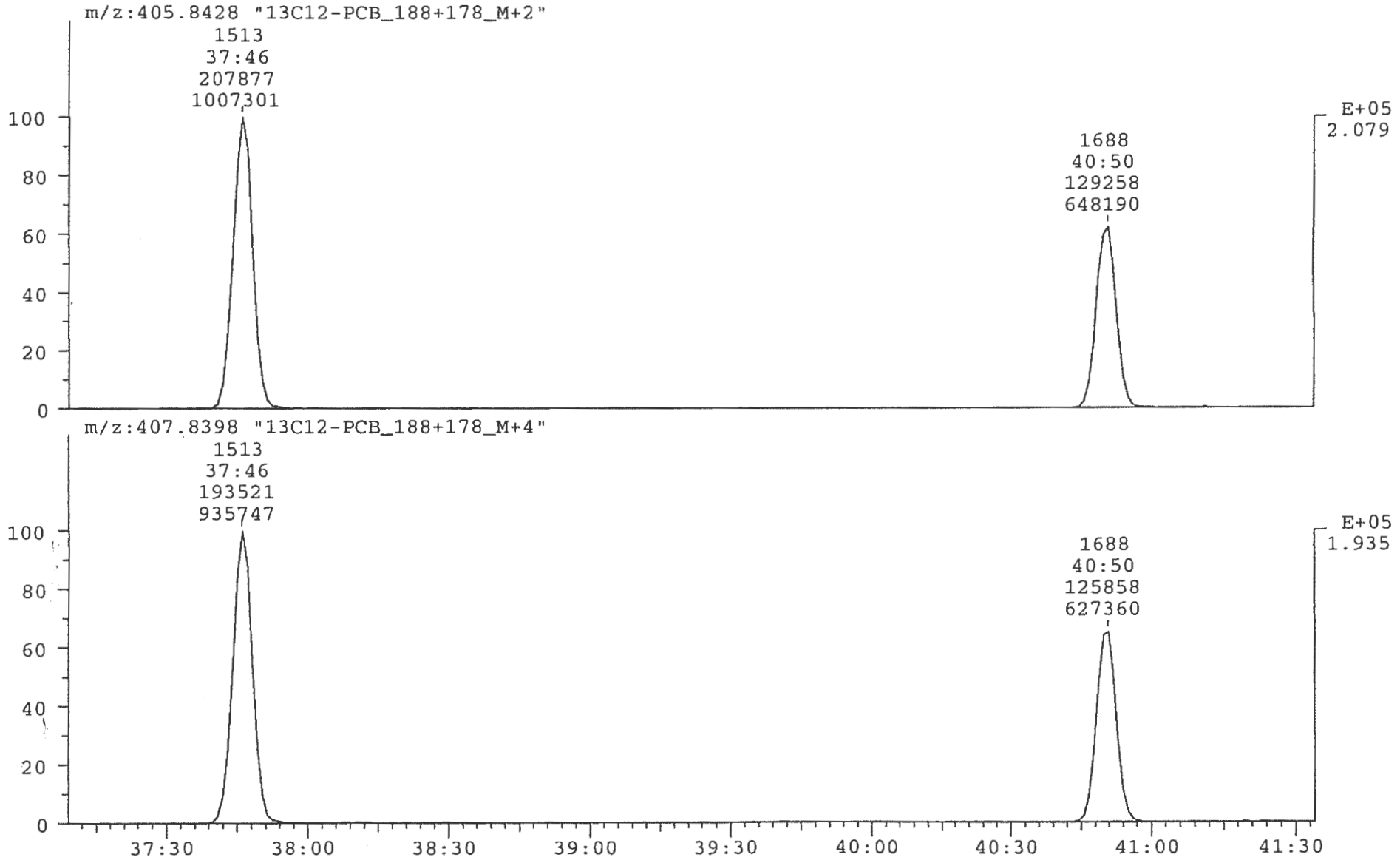


CHRO: a07030723 08-Mar-07 Elapse: 44:06 1873
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1495 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

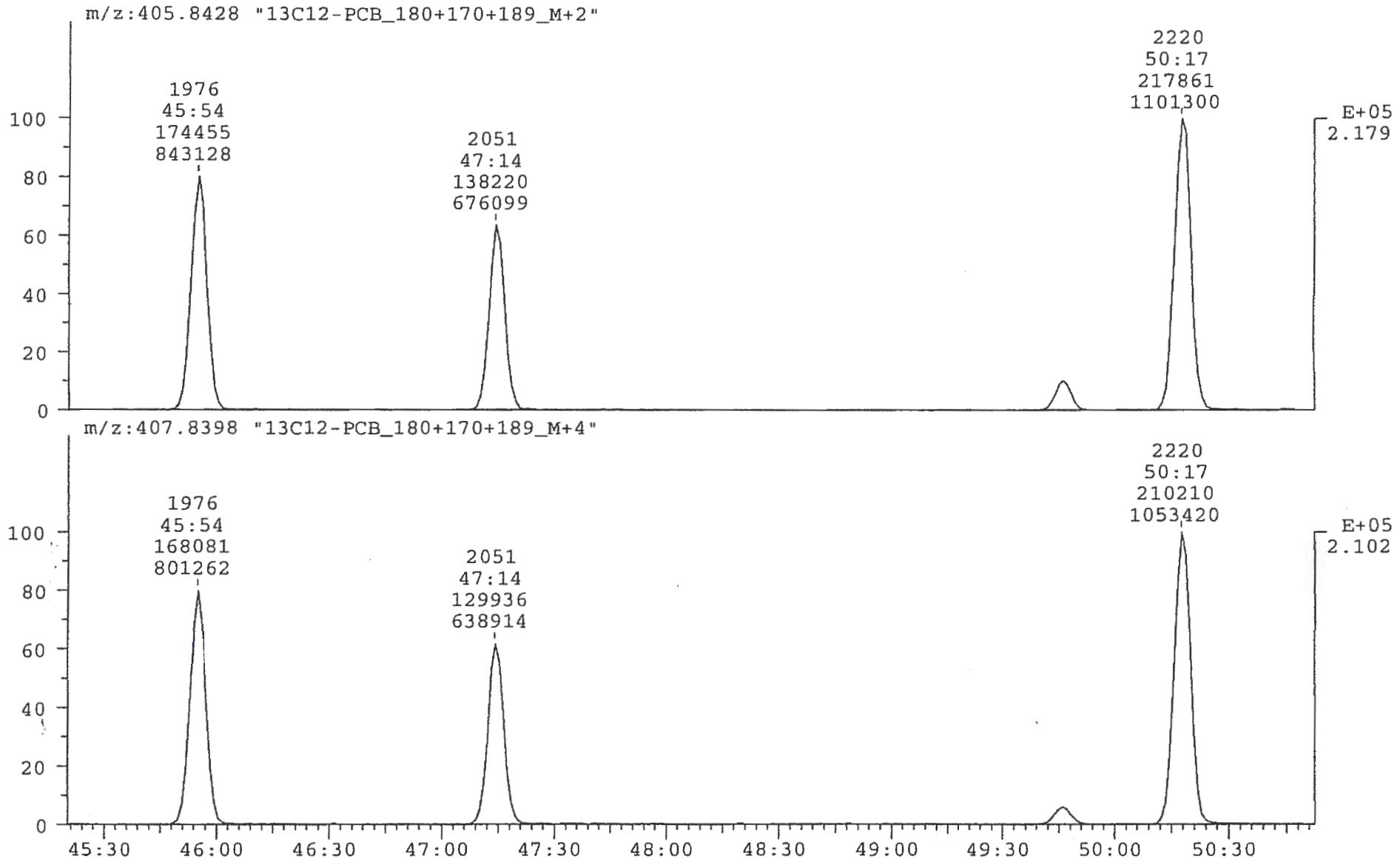


2191

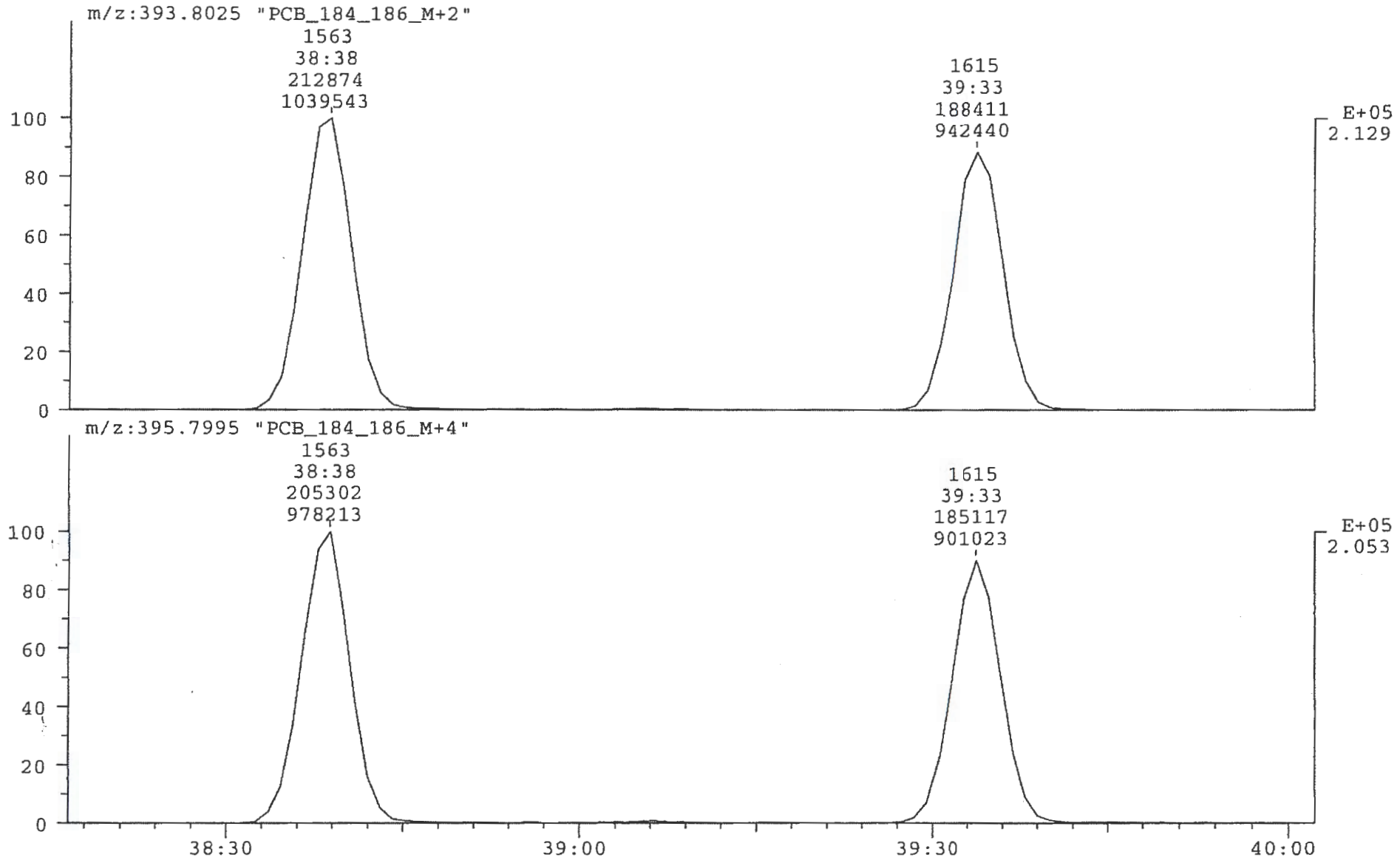
```
CHRO:  a07030723                                08-Mar-07   Elapse:  39:21      1603
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1478 > 1729           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



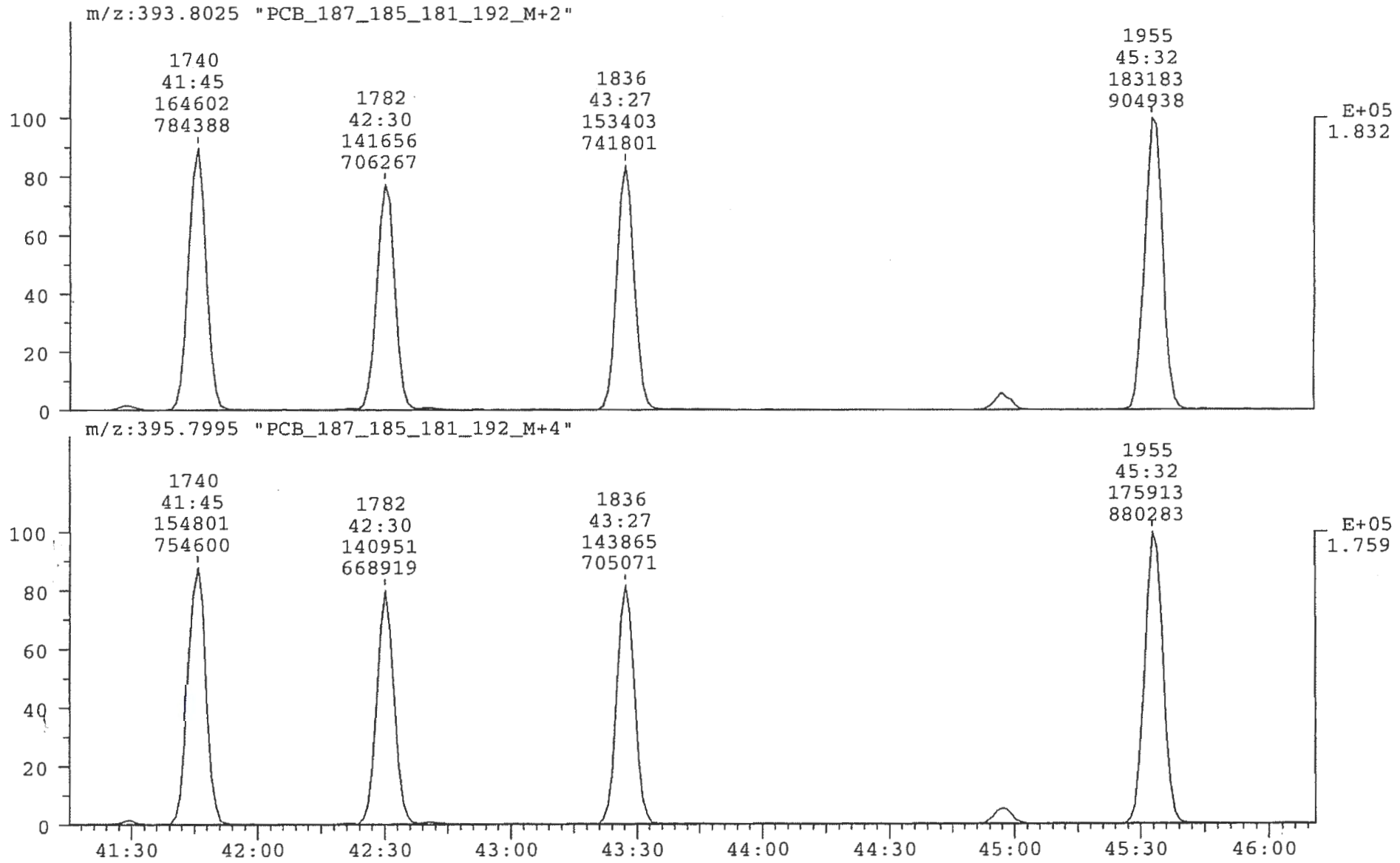
```
CHRO:  a07030723                                08-Mar-07   Elapse:  48:09      2103
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1943 > 2253           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030723 08-Mar-07 Elapse: 39:09 1592
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1542 > 1642 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

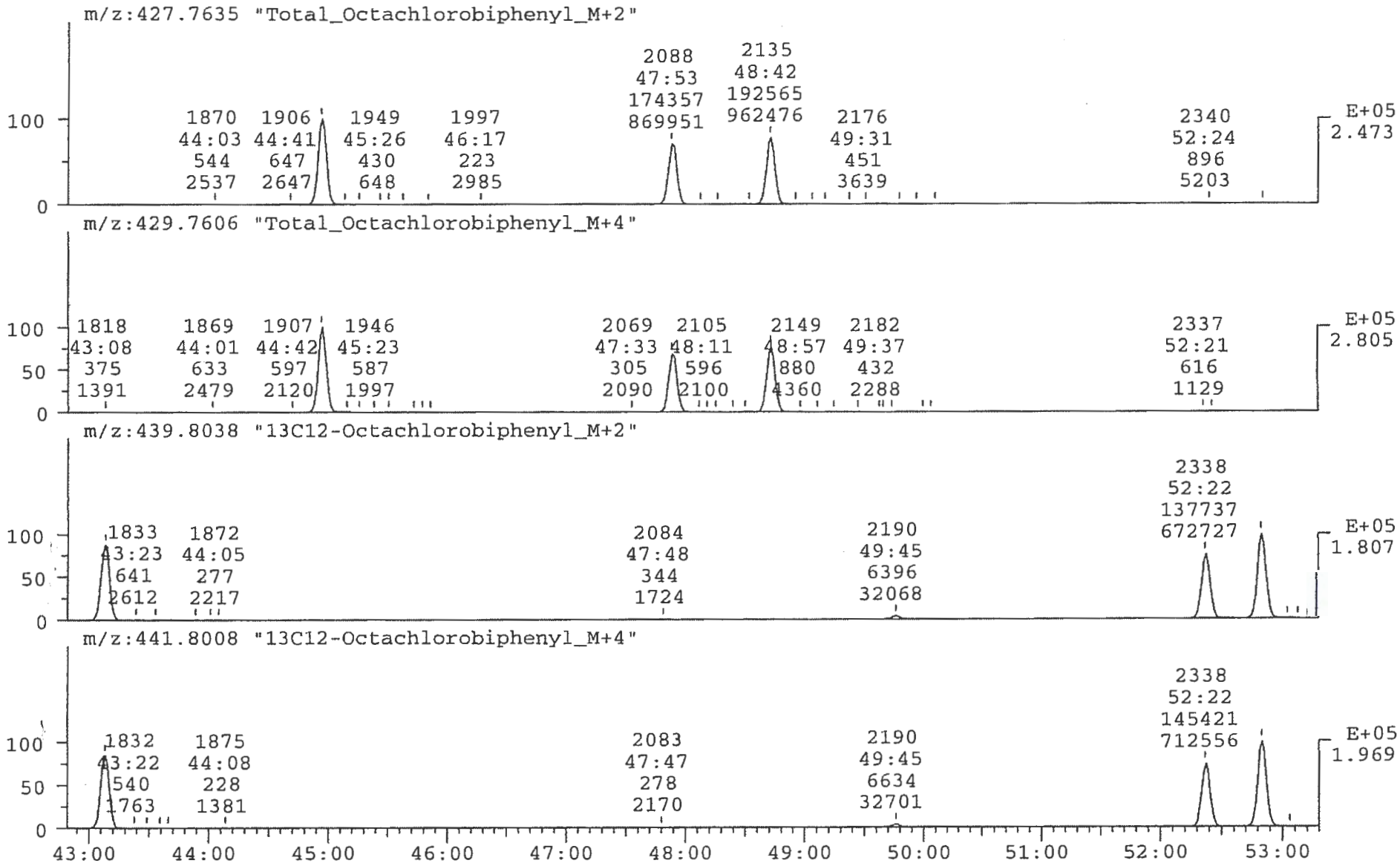


CHRO: a07030723 08-Mar-07 Elapse: 43:42 1851
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1711 > 1991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

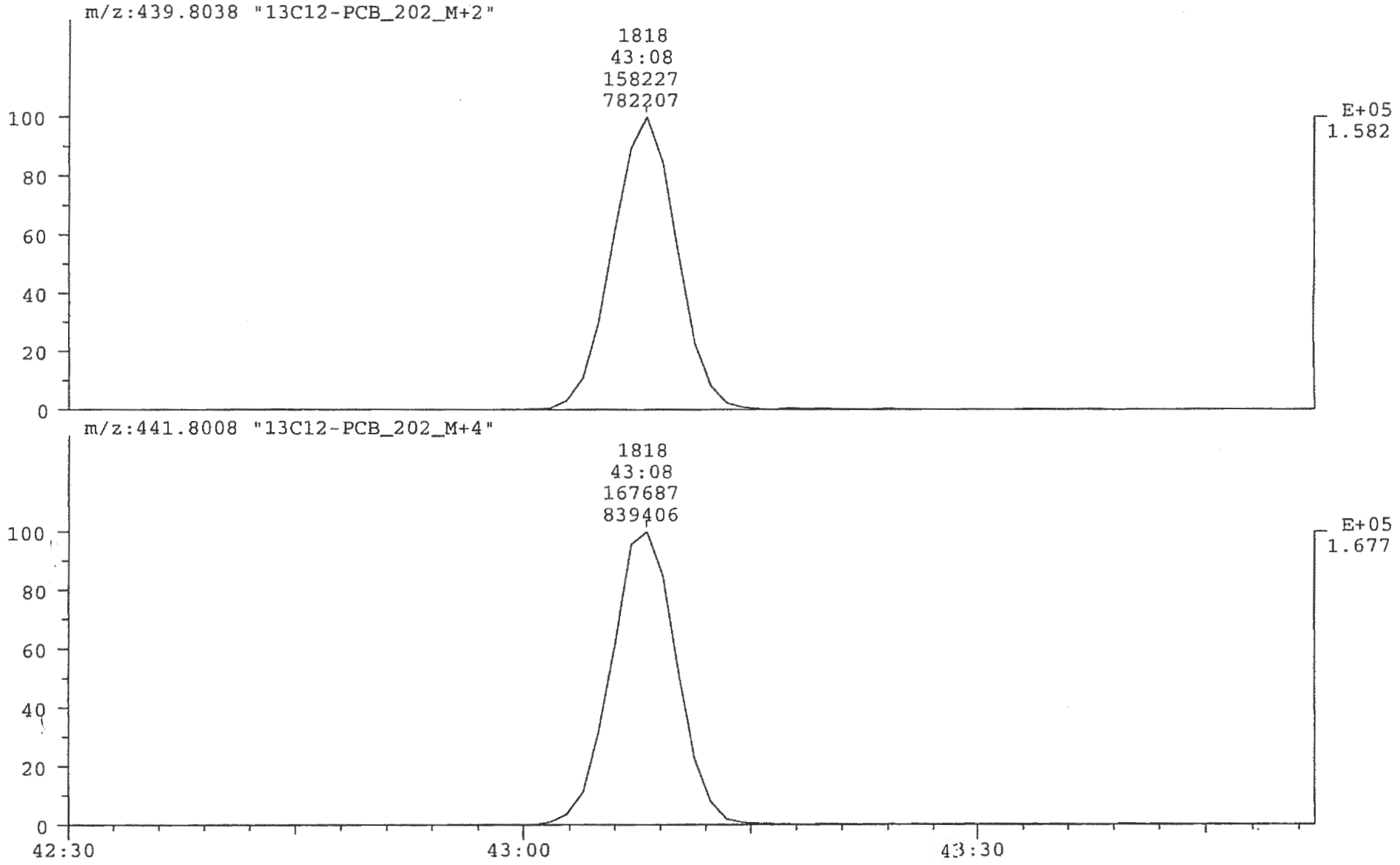


2195

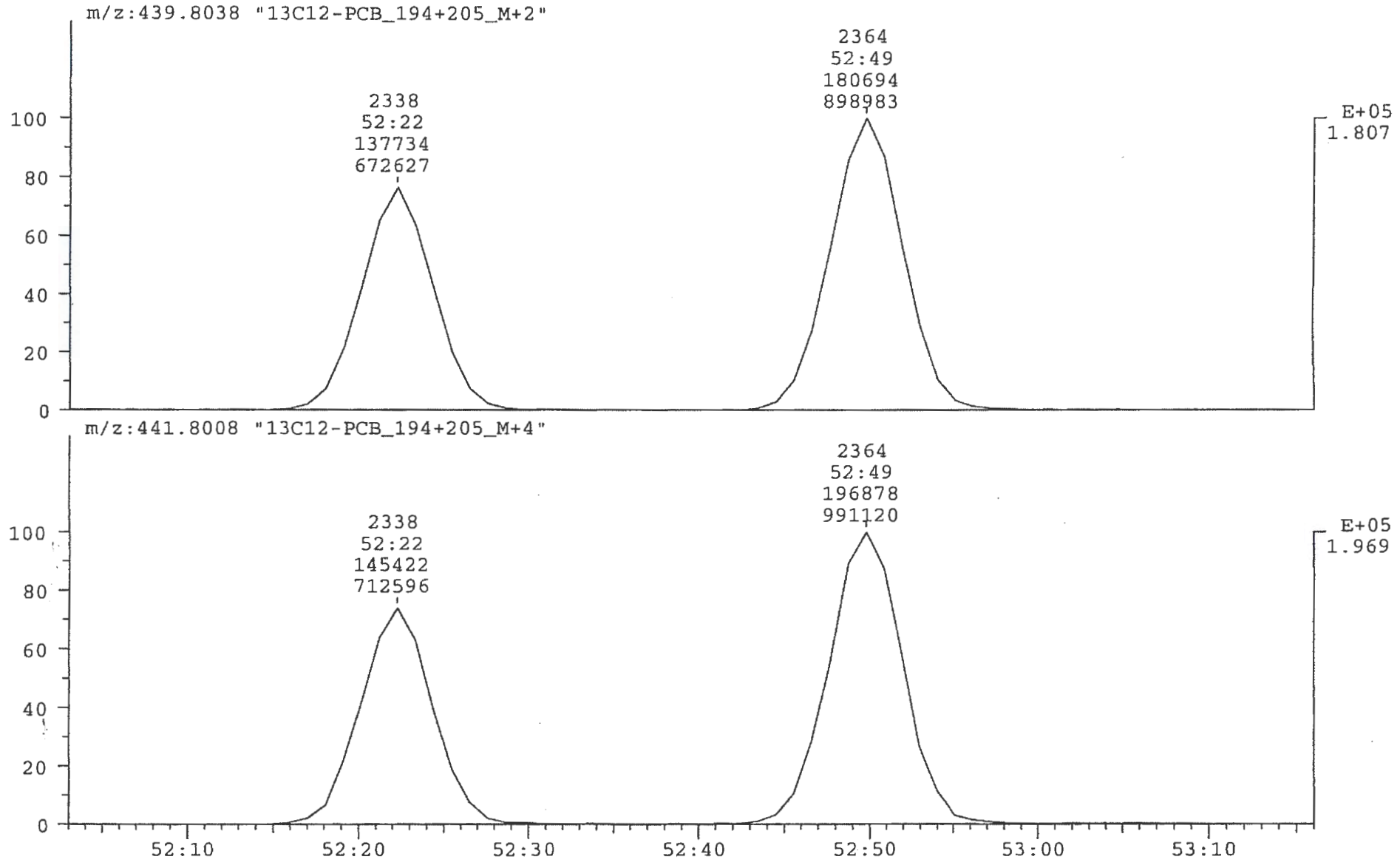
CHRO: a07030723 08-Mar-07 Elapse: 48:02 2097
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1800 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



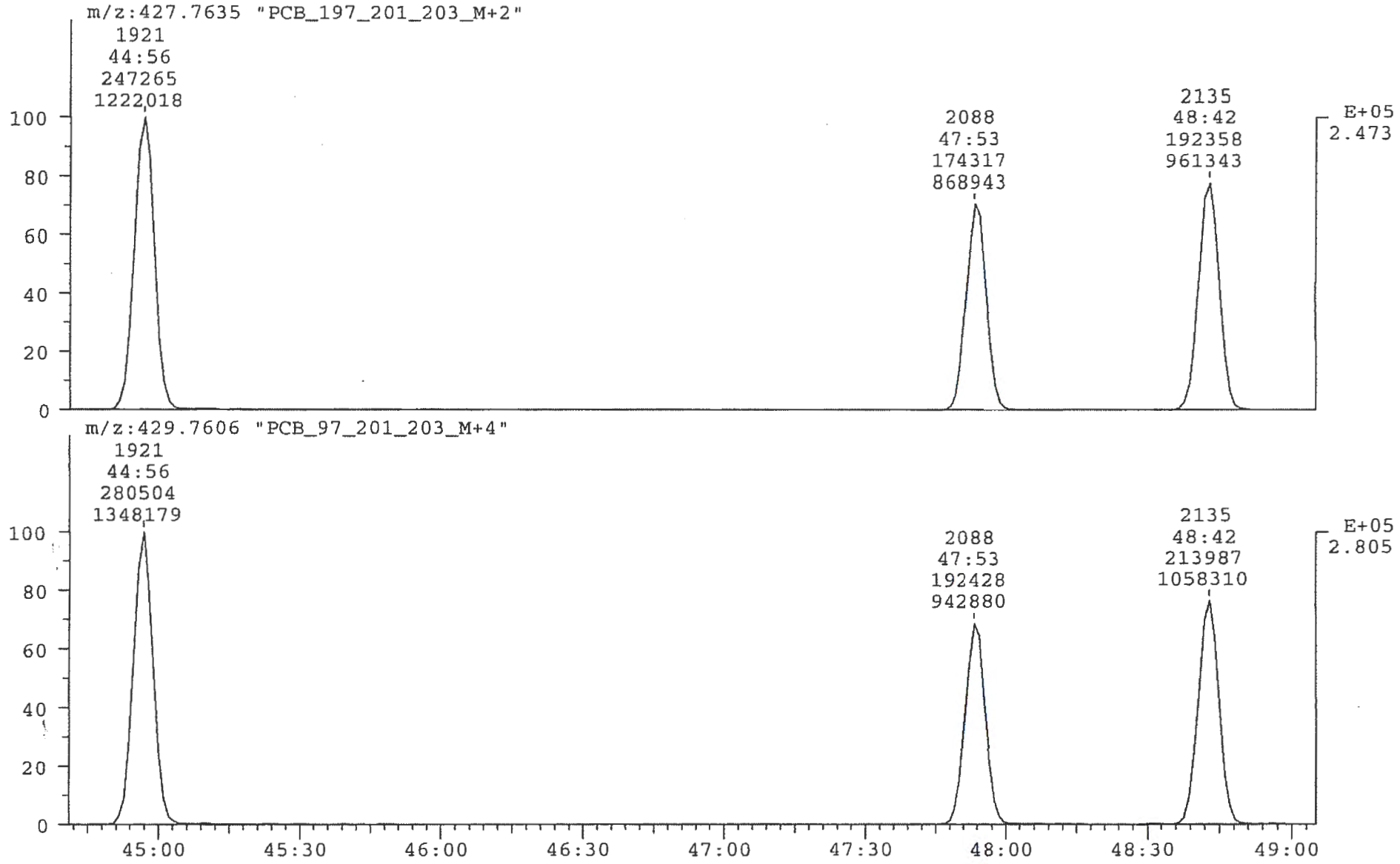
```
CHRO:  a07030723                                08-Mar-07   Elapse:  43:08      1818
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   1782 > 1860           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



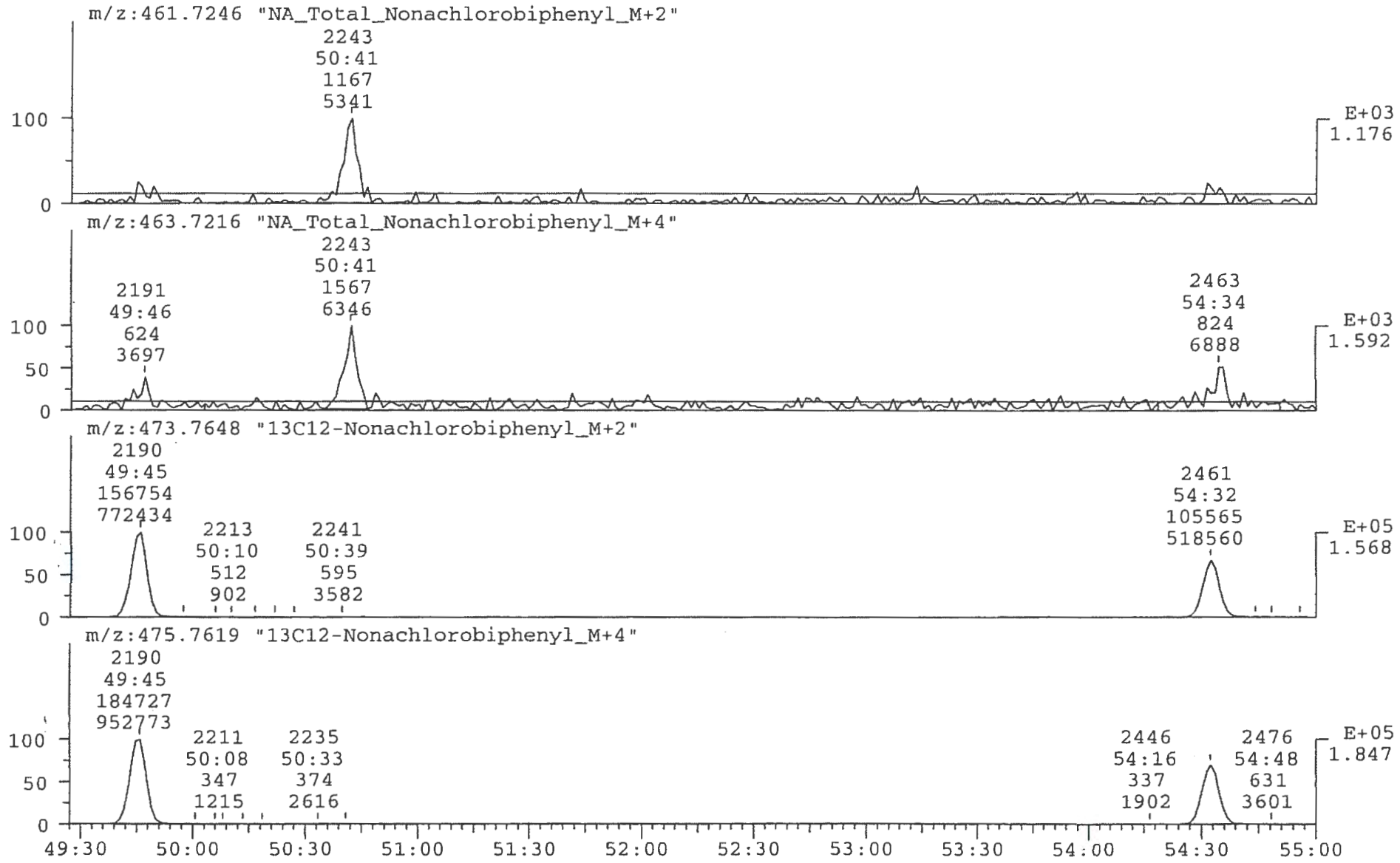
```
CHRO:  a07030723                                08-Mar-07   Elapse:  52:39      2354
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  4
Peak:  100.00  ppm      Label wndw:   2320 > 2389           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



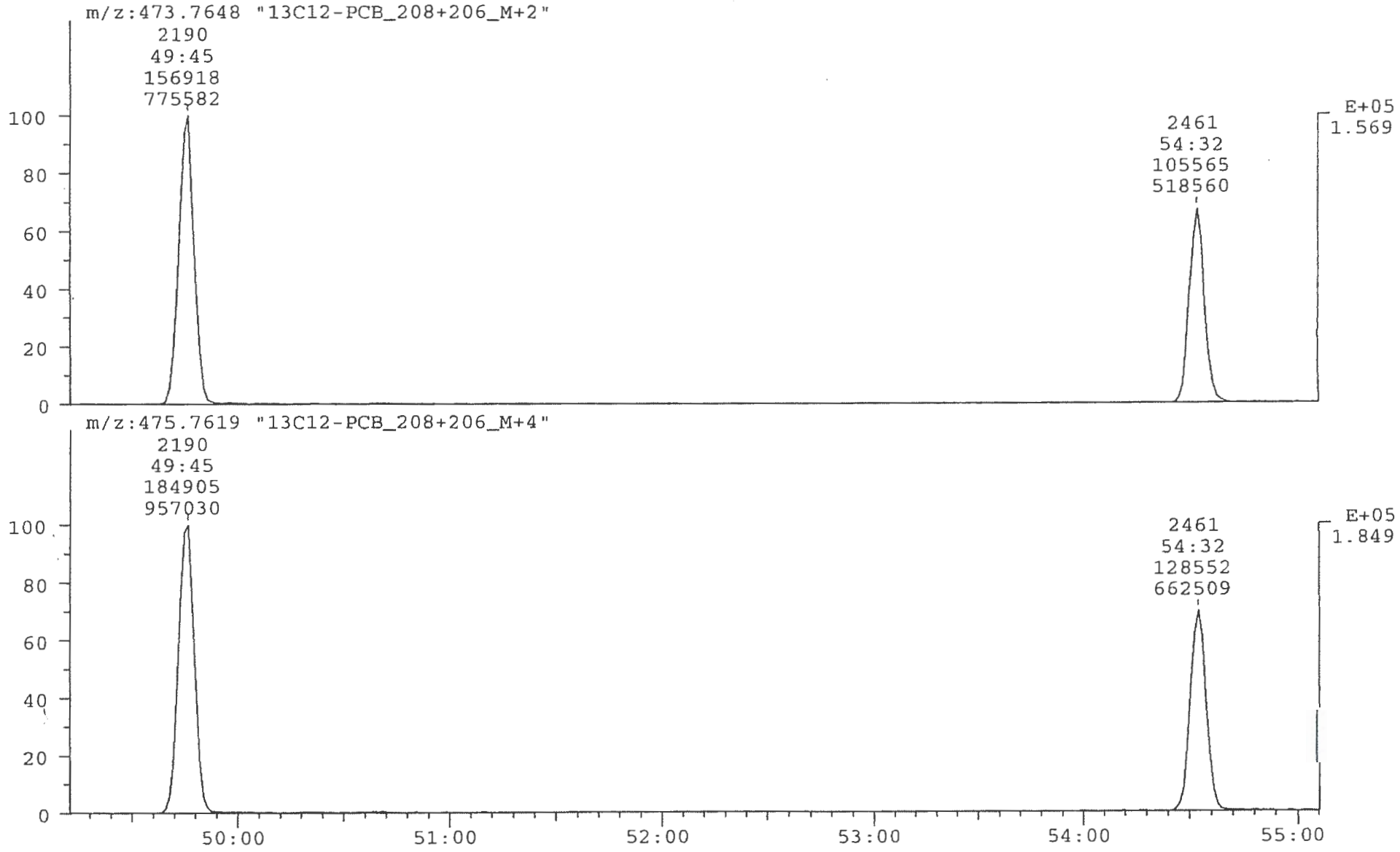
CHRO: a07030723 08-Mar-07 Elapse: 46:53 2031
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 1906 > 2156 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030723                                08-Mar-07   Elapse:  52:12      2329
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1                 Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   2172 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

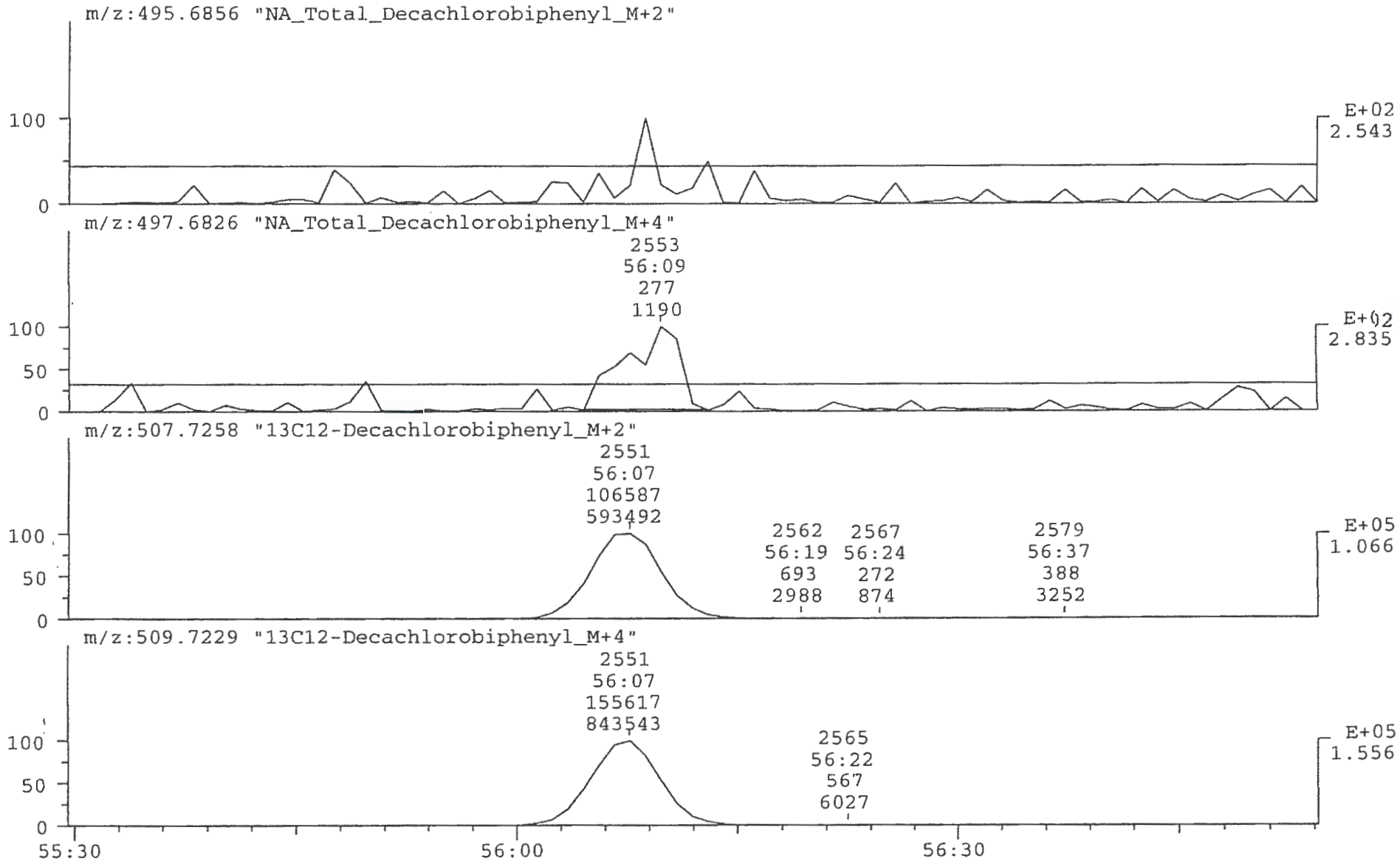


CHRO: a07030723 08-Mar-07 Elapse: 52:11 2328
Samp: Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1 Start : 04:22:11 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix2/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 4
Peak: 100.00 ppm Label wndw: 2163 > 2493 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2201

```
CHRO:  a07030723                              08-Mar-07   Elapse:  56:11      2555
Samp:  Vial 4 WO=2990:75Mix2 Meth=IE3 Dil=1               Start :  04:22:11   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix2/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   4
Peak:  100.00  ppm      Label wndw:   2515 > 2595         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



2202

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: a07030723
Study: 1668 RT Mix2/Run3
Sample: WO=2990:75Mix2 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 4
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 12 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epal668n

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

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

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	257.0000
FVINLET	254.0000	FVSRC	854.0000	FWIN	0.7000
GCTC	204.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.3431	HVANAL	1296.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2604.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7500	TCURR	0.6641
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 04:22:11.3

Autosampler has injected sample from vial 4
MID Time Window 1: Resolution is 6961
MID Time Window 2: Resolution is 7472
MID Time Window 3: Resolution is 8573
MID Time Window 4: Resolution is 8803
Analysis stopped at: 08-Mar-07 05:19:14.1 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030731.	Prep Date		SDG No	
Analysis ID	96245	Prep Exp Date		Date Received	
Analysis Date	03/07/07 19:07	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	178	288	71	115	0.62 *	/	
	13C12-PCB 1	12:12	00:00	0	2376368	748856	990513	310363	3.17	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2355713	725780	785824	243994	3.25	AVV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	200	318	80	127	0.63 *	/	
	PCB 13 (BZ)	20:21	00:00	0	902356	558493	223282	141901	1.62	AVV/ABV	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	385	223	154	89	1.73	/	
	13C12-PCB 4	14:43	00:00	0	1046324	644556	342599	208291	1.62	AVV/ABV	
	13C12-PCB 9	16:40	00:00	0	1762382	1084802	538327	326902	1.62	ABV/AVV	
	13C12-PCB 8	17:33	00:00	0	1815936	1129868	509980	312330	1.61	AVV/AVV	
	13C12-PCB 15	20:41	00:00	0	1807378	1112368	459906	290556	1.62	AVV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	185	140	74	56	1.32 *	/	
	PCB 17 (BZ)	20:11	00:00	0	408683	383263	107161	103297	1.07	ABV/ABV	
	PCB 29 (BZ)	22:52	00:00	0	810476	805208	200695	194695	1.01	ABV/ABV	
	PCB 20 (BZ)	23:48	00:00	0	745941	730544	179490	176179	1.02	ABV/ABV	D
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	538	260	215	104	2.07 *	/	
	13C12-PCB 19	17:54	00:00	0	634906	591004	175588	166299	1.07	AVV/AVV	
	13C12-PCB 32	21:10	00:00	0	1163117	1076366	296356	285643	1.08	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1678253	1595217	412421	393519	1.05	AVV/ABV	
	13C12-PCB 28	23:42	00:00	0	1532212	1468386	370899	359667	1.04	AVV/AVV	
	13C12-PCB 37	27:47	00:00	0	1473088	1384100	326689	303811	1.06	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	170	328	68	131	0.52 *	/	
	PCB 46 (BZ)	24:15	00:00	0	687652	883235	166424	213002	0.78	ABV/ABV	D
	PCB 65 (BZ)	26:33	00:00	0	1102249	1414520	252088	333158	0.78	ABV/AVV	
	PCB 59 (BZ)	26:56	00:00	0	1107222	1401171	246471	311870	0.79	AVV/AVV	M
	PCB 40 (BZ)	27:42	00:00	0	604741	793056	134445	176036	0.76	ABV/ABB	D
	PCB 67 (BZ)	29:44	00:00	0	1269252	1667190	278524	363229	0.76	ABV/AVV	D
	PCB 76 (BZ)	30:22	00:00	0	1149711	1475502	246322	320030	0.78	AVV/AVV	M
	PCB 80 (BZ)	31:54	00:00	0	1316308	1653102	281392	348792	0.80	ABV/ABV	D
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	150	148	60	59	1.02 *	/	
	13C12-PCB 54	21:03	00:00	0	575596	695303	145238	172410	0.83	ABV/ABV	
	13C12-PCB 52	25:34	00:00	0	803917	1019183	190731	240664	0.79	ABV/ABV	
	13C12-PCB 79	33:29	00:00	0	1166125	1470568	250659	320875	0.79	ABV/ABV	D
	13C12-PCB 81	34:32	00:00	0	1042045	1303500	211983	266992	0.80	ABV/ABV	D
	13C12-PCB 77	35:06	00:00	0	1073073	1326824	216594	266047	0.81	ABB/ABV	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030731.	Prep Date		SDG No	
Analysis ID	96245	Prep Exp Date		Date Received	
Analysis Date	03/07/07 19:07	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	210	198	84	79	1.06 *	/	
	PCB 93 (BZ)	29:44	00:00	0	855919	523171	195093	117876	1.64	ABV/ABV	D
	PCB 84 (BZ)	30:40	00:00	0	805015	502014	173928	109175	1.60	ABV/ABV	D
	PCB 101 (BZ)	32:24	00:00	0	1082471	691593	230589	151072	1.57	ABV/ABV	DM
	PCB 112 (BZ)	33:06	00:00	0	1322618	824124	278975	176722	1.60	AVV/AVV	D
	PCB 86 (BZ)	33:30	00:00	0	881846	556902	185546	116677	1.58	AVV/AVV	DM
	PCB 116 (BZ)	34:12	00:00	0	1252531	787490	268902	166009	1.59	ABV/ABV	D
	PCB 107 (BZ)/109 (IUPAC	36:56	00:00	0	1637056	1055143	322366	209450	1.55	AVV/AVV	D
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	150	138	60	55	1.09 *	/	
	13C12-PCB 104	26:30	00:00	0	1223191	751021	271782	168014	1.63	ABV/ABV	D
	13C12-PCB 95	29:30	00:00	0	922356	569493	198209	121001	1.62	ABV/ABV	D
	13C12-PCB 101	32:23	00:00	0	969094	626203	212003	139274	1.55	ABV/ABV	
	13C12-PCB 111	35:00	00:00	0	1232381	766647	264286	163908	1.61	ABV/ABV	
	13C12-PCB 123	37:02	00:00	0	1472037	916854	319445	194406	1.61	ABV/ABV	D
	13C12-PCB 118	37:21	00:00	0	1544046	954718	332821	203248	1.62	AVV/AVV	D
	13C12-PCB 114	37:54	00:00	0	1490758	915507	304354	191611	1.63	AVV/AVV	D
	13C12-PCB 105	38:36	00:00	0	1453908	891033	301823	190723	1.63	AVB/ABB	D
	13C12-PCB 127	39:59	00:00	0	1611178	1009735	338575	210443	1.60	ABV/ABV	
	13C12-PCB 126	41:39	00:00	0	1566892	981595	318475	194949	1.60	ABV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	313	225	125	90	1.39	/	
	PCB 154 (BZ)	35:29	00:00	0	909158	717307	193605	151417	1.27	ABV/ABV	D
	PCB 147 (BZ)	36:13	00:00	0	1042003	828682	204355	161207	1.26	ABV/ABV	D
	PCB 140 (BZ)	36:50	00:00	0	969166	761086	202343	155079	1.27	AVV/AVV	DM
	PCB 146 (BZ)	38:35	00:00	0	1011436	800642	211614	166324	1.26	ABV/AVV	D
	PCB 141 (BZ)	39:27	00:00	0	929808	744490	189400	149732	1.25	AVV/AVV	D
	PCB 164 (BZ)	40:12	00:00	0	1288454	1025213	272680	216295	1.26	ABV/ABV	
	PCB 158 (BZ)	40:52	00:00	0	1358756	1086066	278019	225783	1.25	AVV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	295	138	118	55	2.15 *	/	
	13C12-PCB 155	32:03	00:00	0	1035373	797032	219527	171972	1.30	ABV/ABV	D
	13C12-PCB 153	39:10	00:00	0	1041032	822917	221498	177432	1.27	ABV/ABV	D
	13C12-PCB 138	40:28	00:00	0	1041512	809730	217172	168868	1.29	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1312232	1027584	265242	206532	1.28	AVV/AVV	
	13C12-PCB 156	44:36	00:00	0	1254614	1002174	258072	208241	1.25	ABV/ABV	D
	13C12-PCB 157	44:40	00:00	0	1292073	1018869	285198	226941	1.27	AVB/AVB	M
	13C12-PCB 169	47:51	00:00	0	1229600	971945	247918	192736	1.27	ABV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	185	195	74	78	0.95	/	
	PCB 182 (BZ)	41:58	00:00	0	835194	790906	173685	164957	1.06	AVV/AVV	D
	PCB 174 (BZ)	42:43	00:00	0	779724	747918	161375	155089	1.04	AVV/AVV	D
	PCB 173 (BZ)	43:45	00:00	0	680339	646144	133285	130414	1.05	AVV/ABV	DM

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030731.	Prep Date		SDG No	
Analysis ID	96245	Prep Exp Date		Date Received	
Analysis Date	03/07/07 19:07	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

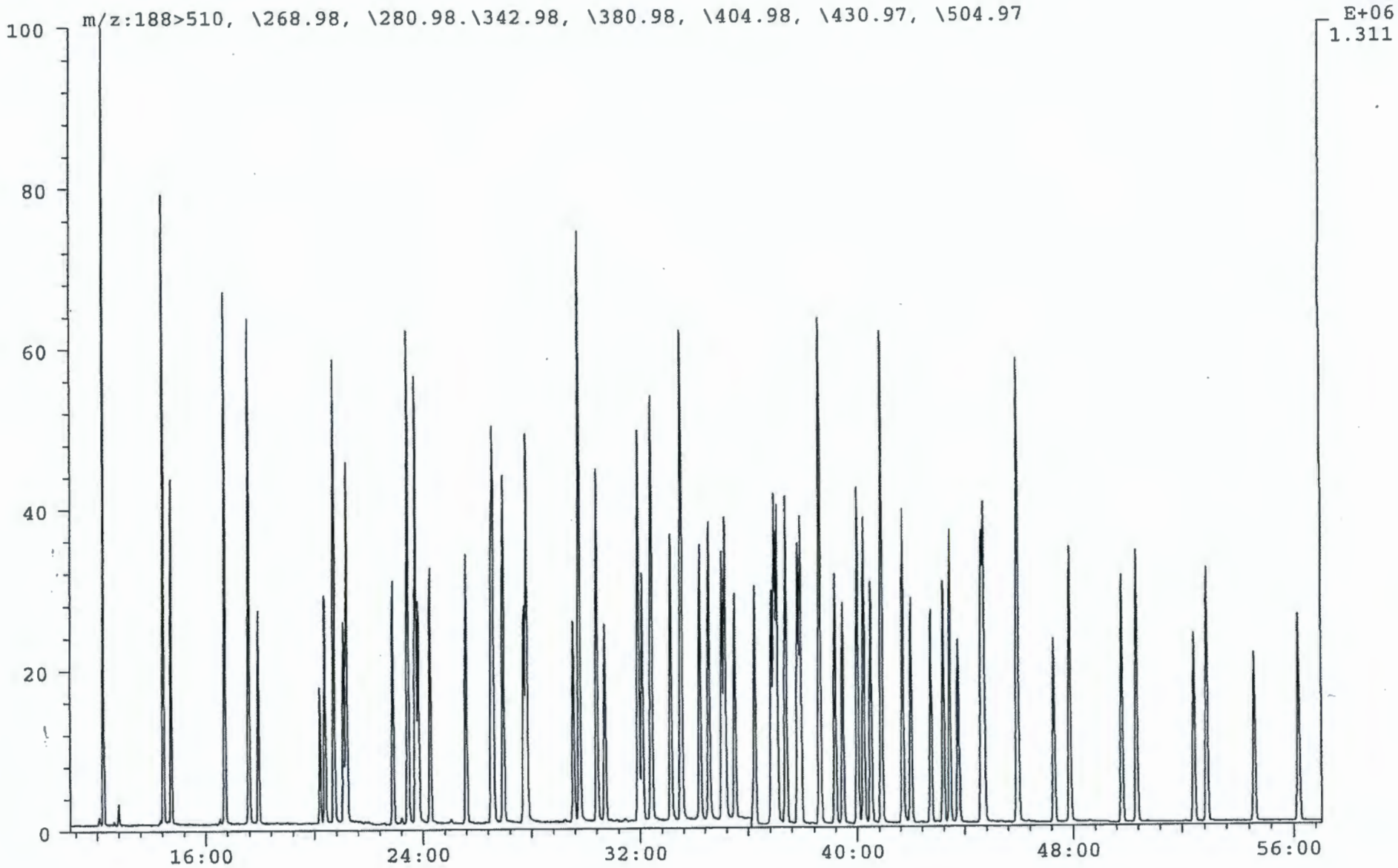
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	PCB 193 (BZ)	45:55	00:00	0	1117791	1068664	224762	210716	1.05	ABB/ABV	D
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	150	190	60	76	0.79 *	/	
	13C12-PCB 188	37:47	00:00	0	1094818	1021505	224341	217596	1.07	ABV/ABV	D
	13C12-PCB 178	40:53	00:00	0	700547	653764	143391	134424	1.07	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	902581	860688	180871	174848	1.05	ABV/ABV	
	13C12-PCB 170	47:16	00:00	0	728550	692606	144003	139174	1.05	AVV/AVV	
	13C12-PCB 189	50:19	00:00	0	1140424	1103495	224814	220004	1.03	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	155	145	62	58	1.07 *	/	
	13C12-PCB 202	43:09	00:00	0	851355	941636	177076	195972	0.90	ABV/ABV	D
	13C12-PCB 194	52:24	00:00	0	704032	754527	141483	149546	0.93	ABV/ABV	
	13C12-PCB 205	52:51	00:00	0	952529	1070837	188996	213372	0.89	AVV/ABV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	173	163	69	65	1.06 *	/	
	13C12-PCB 208	49:47	00:00	0	818299	1020656	159725	206257	0.80	AVV/AVV	
	13C12-PCB 206	54:34	00:00	0	551325	702108	108205	135170	0.79	ABV/AVV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	160	238	64	95	0.67	/	
	13C12-PCB 209	56:10	00:00	0	639680	900648	119837	165106	0.71	ABV/ABV	

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

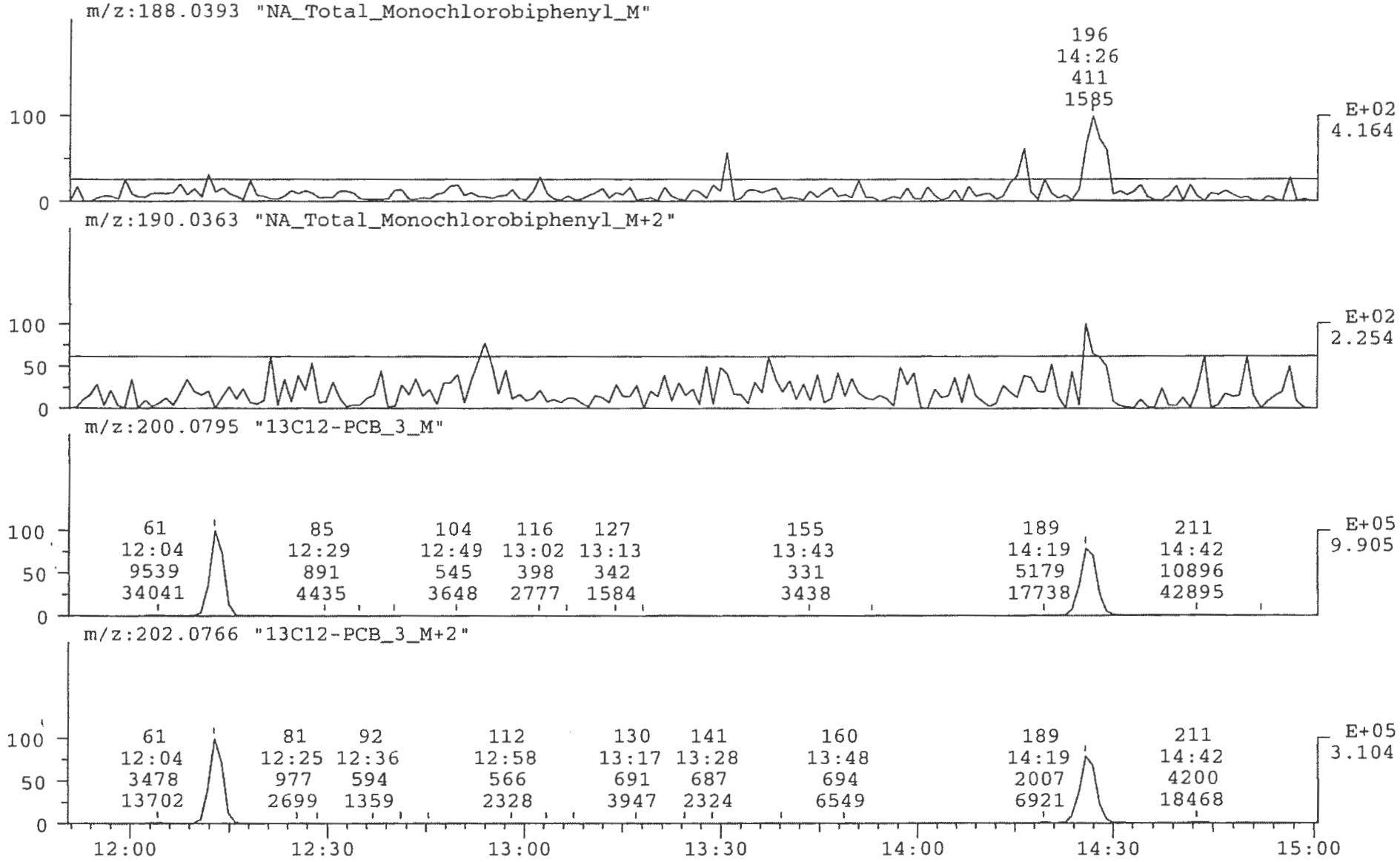
Int DCG 3-1707
Calc DCG 3-19-07
QC BPW 3/19/07

CHRO: a07030731 07-Mar-07 Elapse: 56:12 2555
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

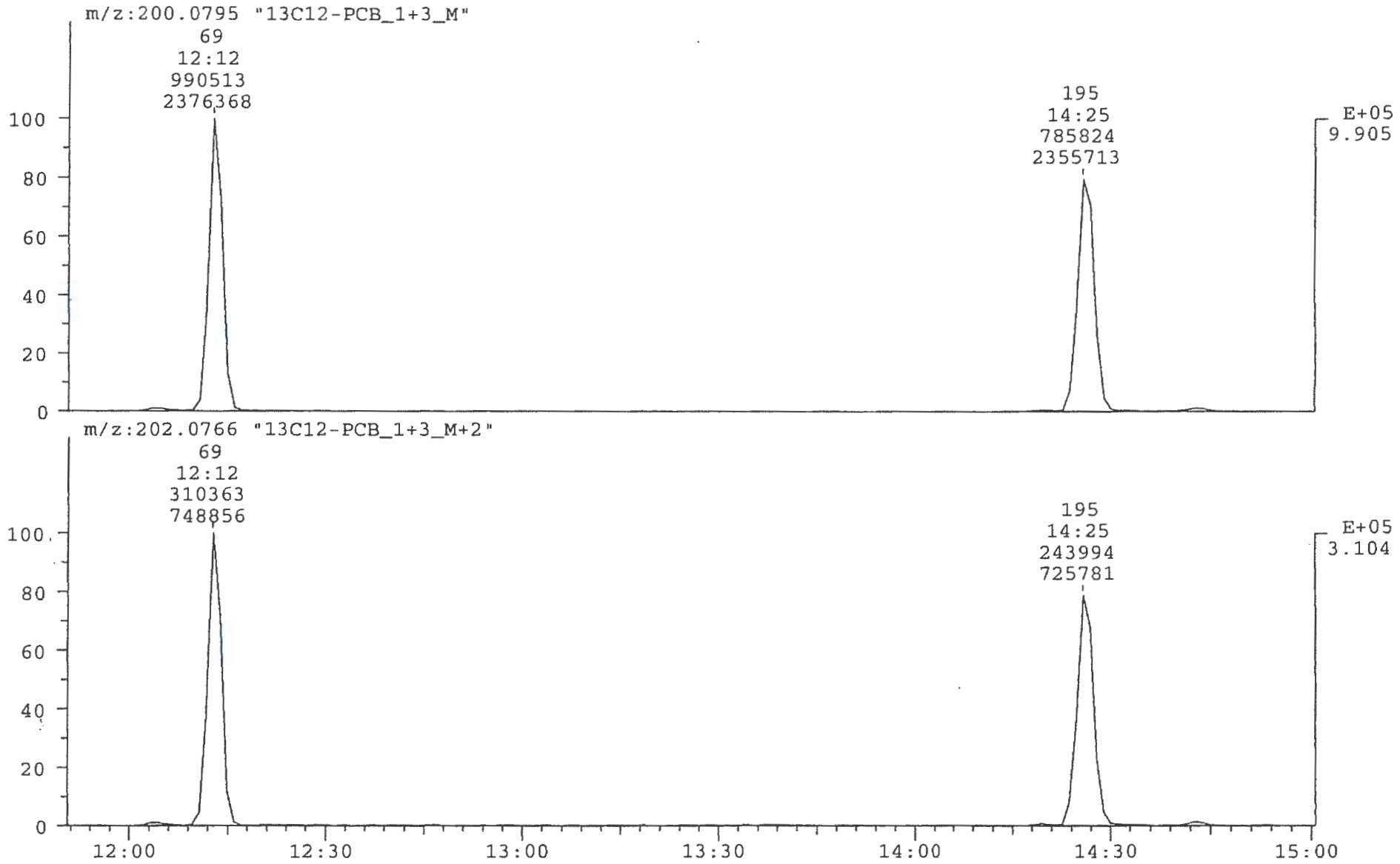


2210

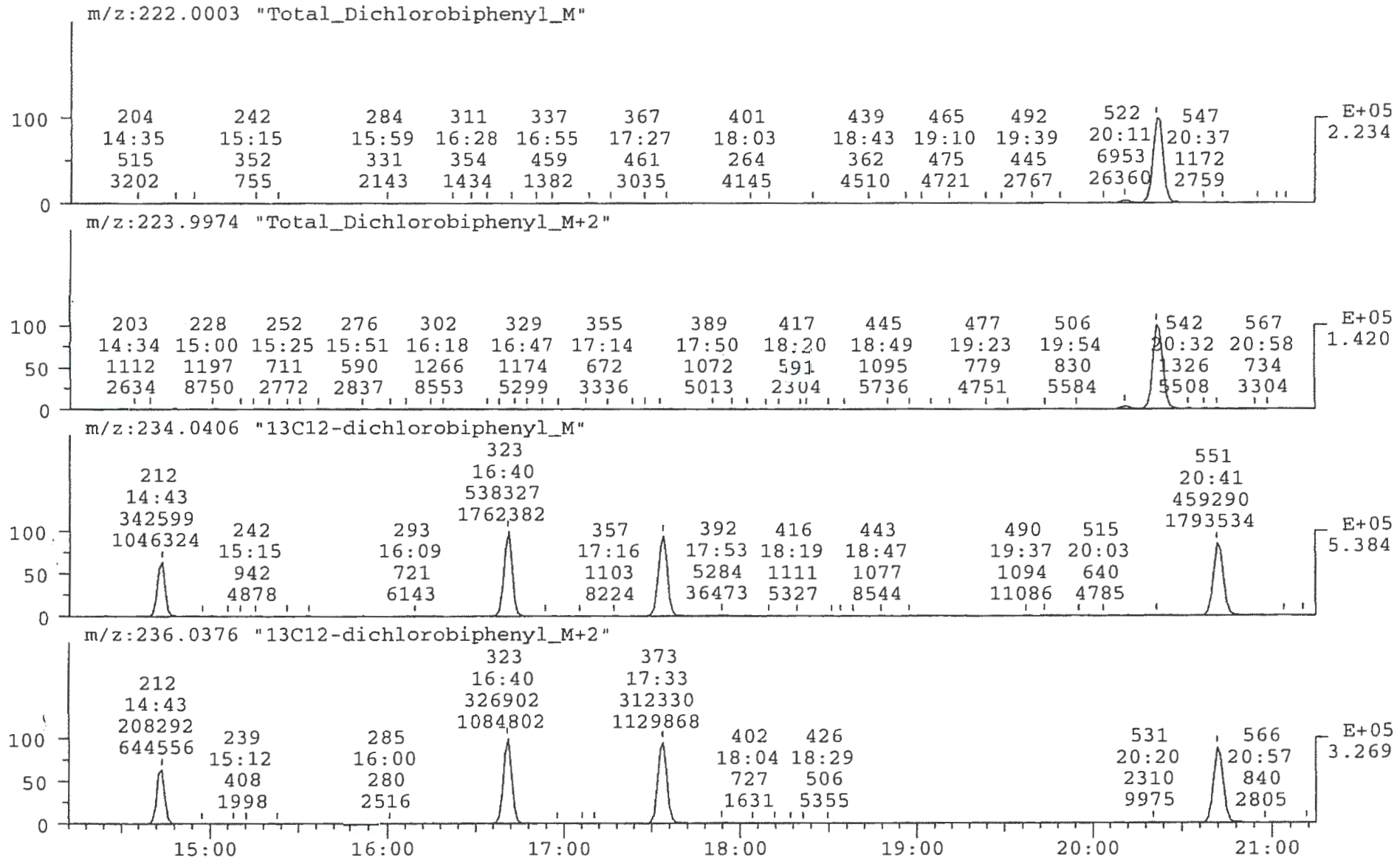
```
CHRO:  a07030731                              07-Mar-07   Elapse:  13:25.5      138
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  19:07:06    2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   48 > 228            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



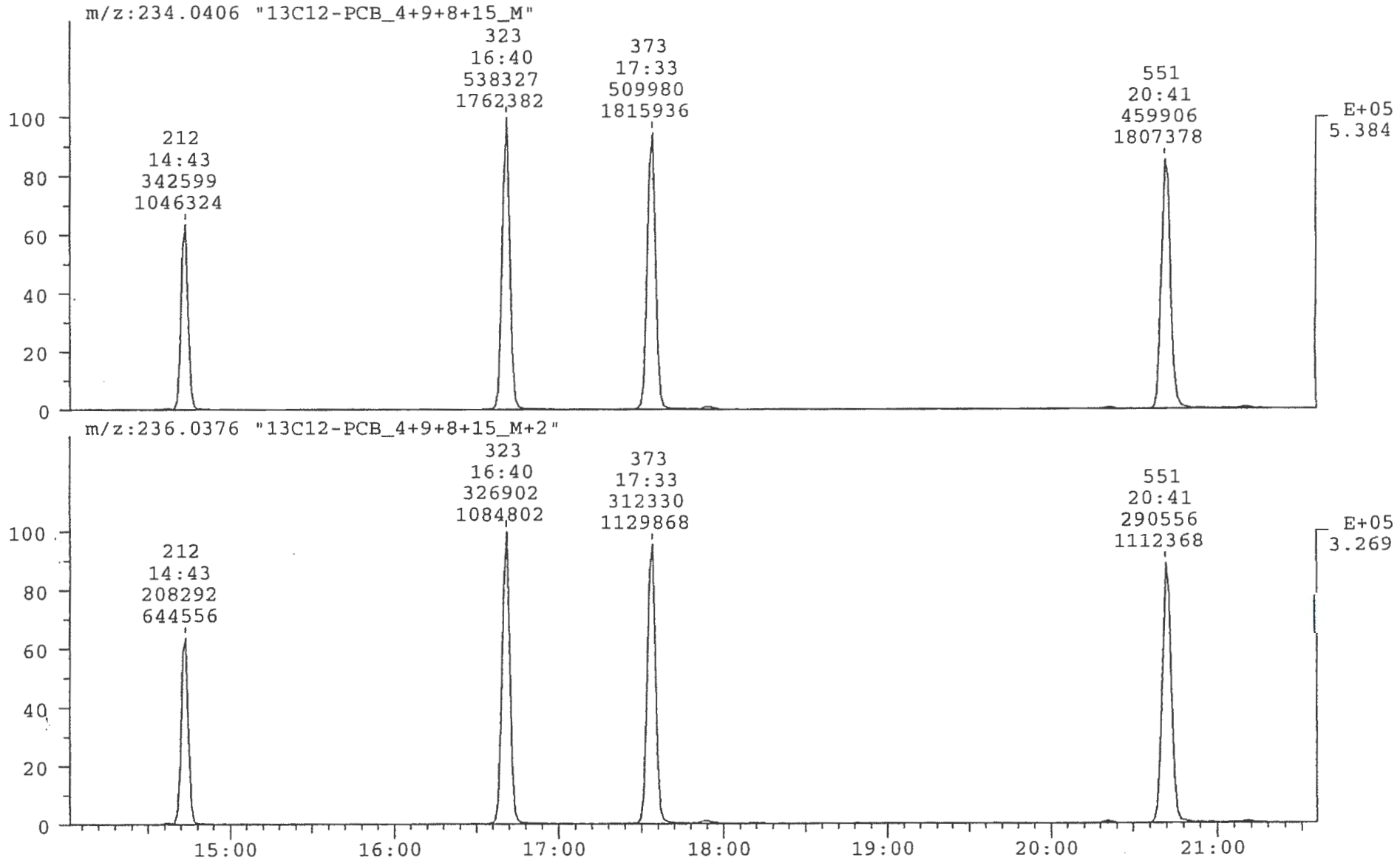
```
CHRO:  a07030731                                07-Mar-07   Elapse:  13:25.5      138
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



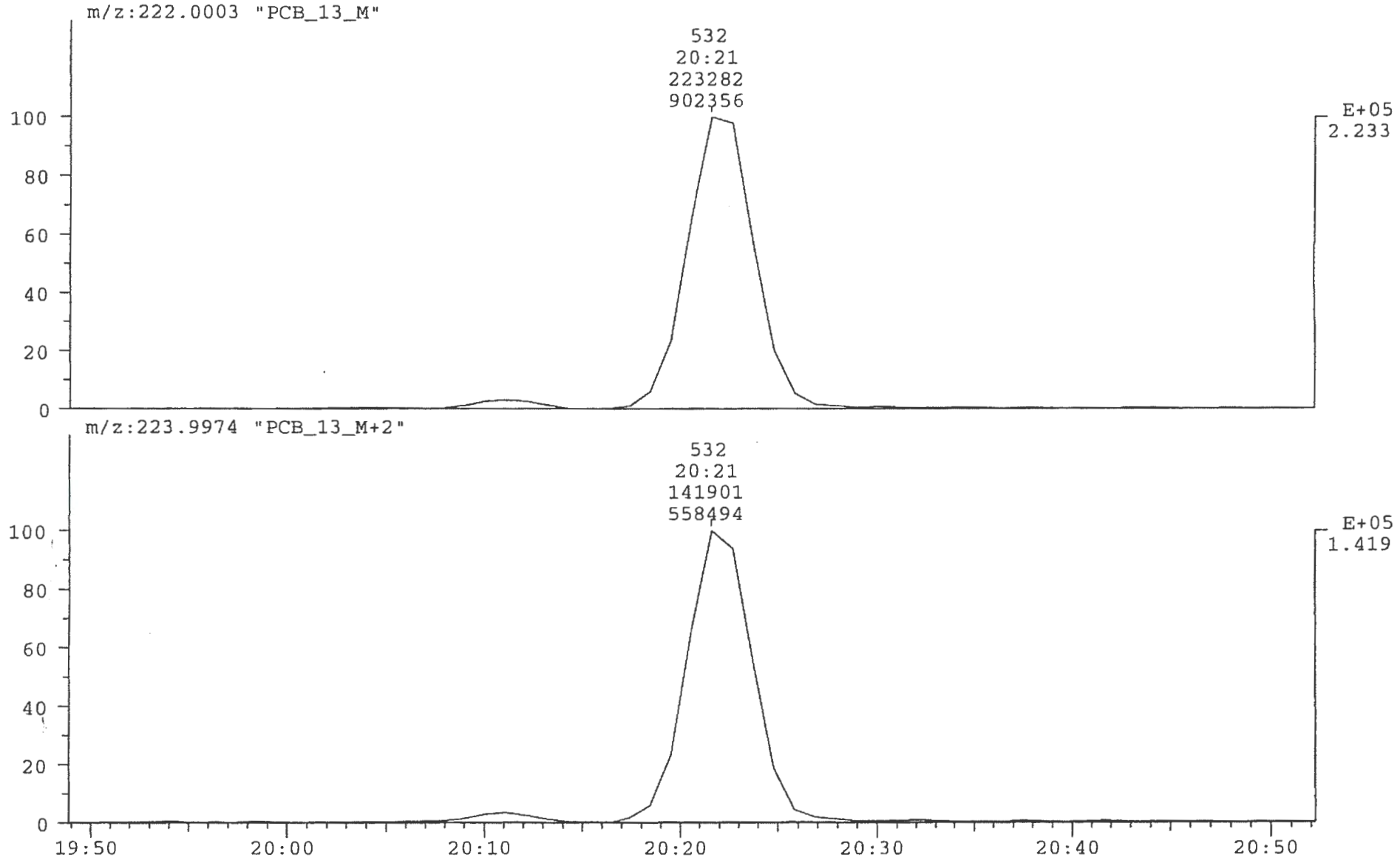
CHRO: a07030731 07-Mar-07 Elapse: 17:43.2 382
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



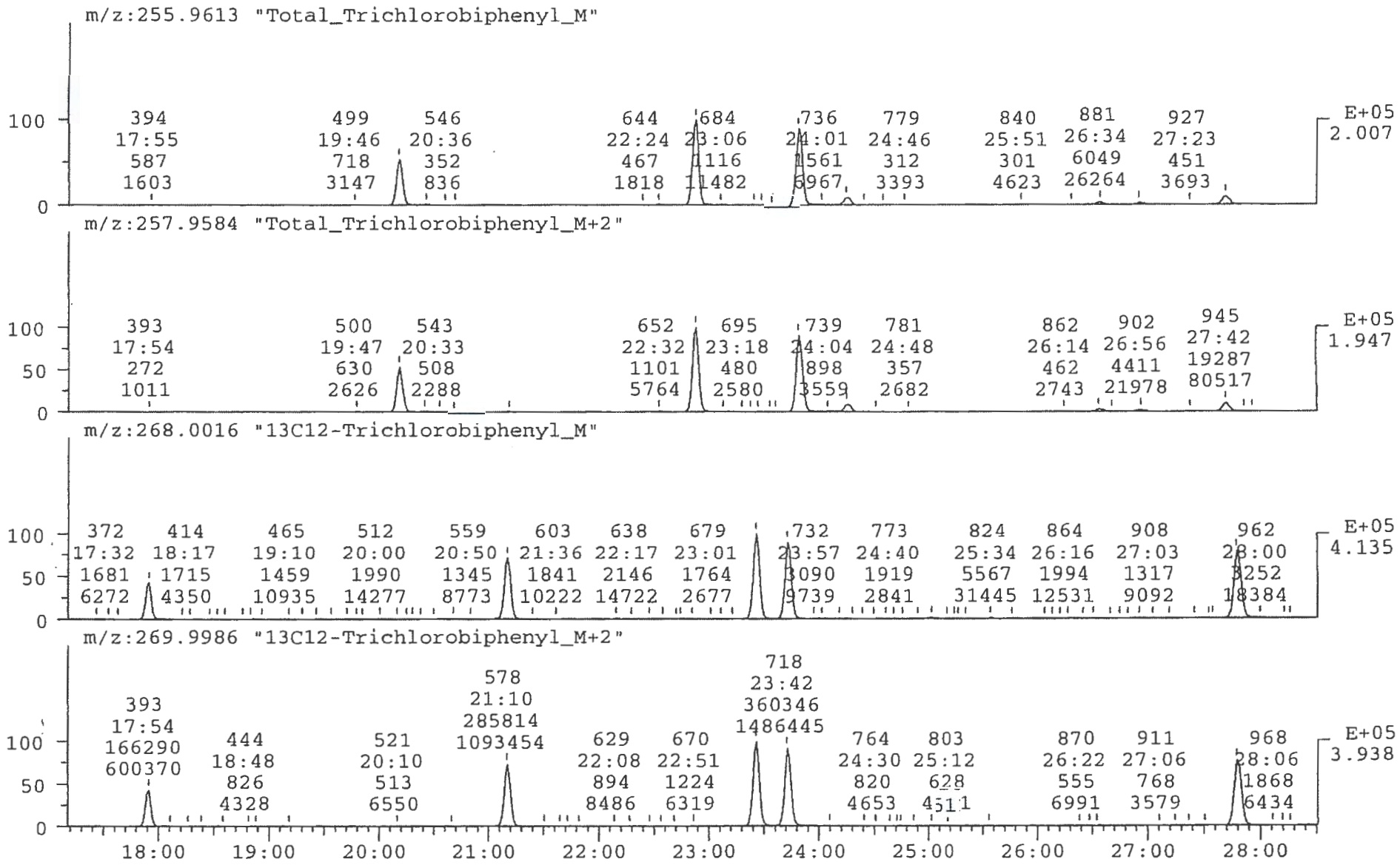
```
CHRO:  a07030731                                07-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030731                                07-Mar-07   Elapse:  20:20.5      531
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   501 > 561             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

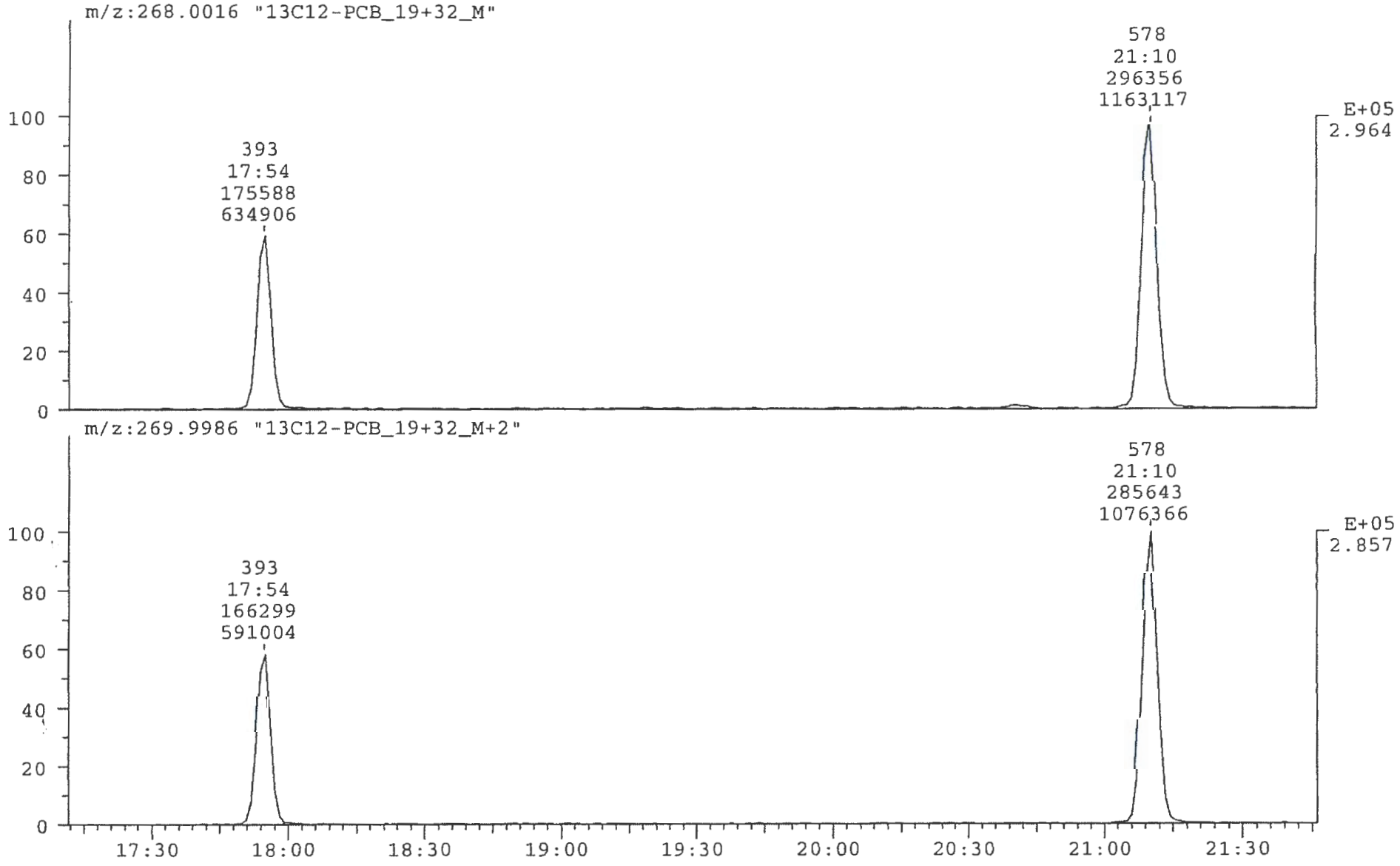


```
CHRO:  a07030731                                07-Mar-07   Elapse:  22:52.7      671
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   351 > 991             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

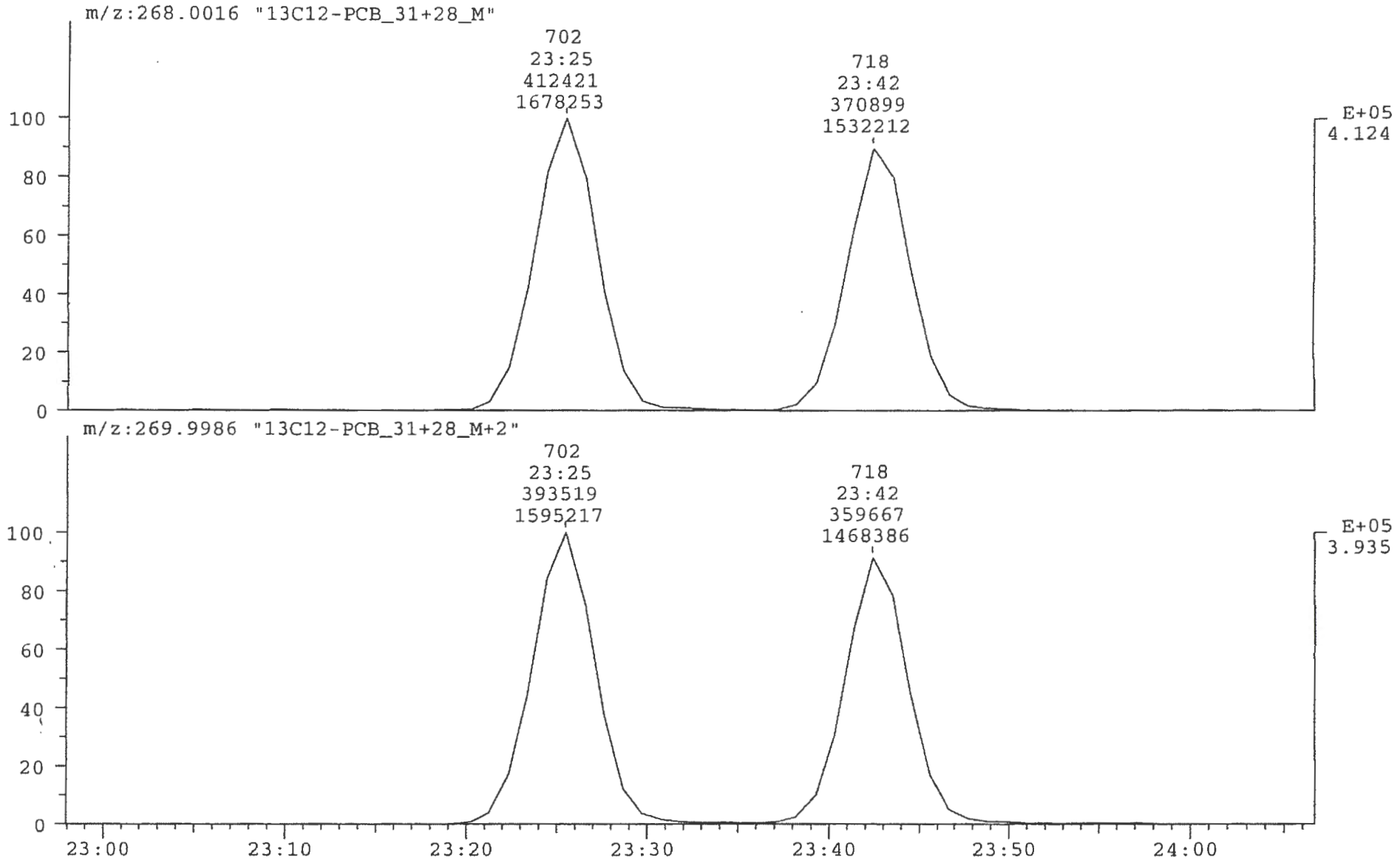


2216

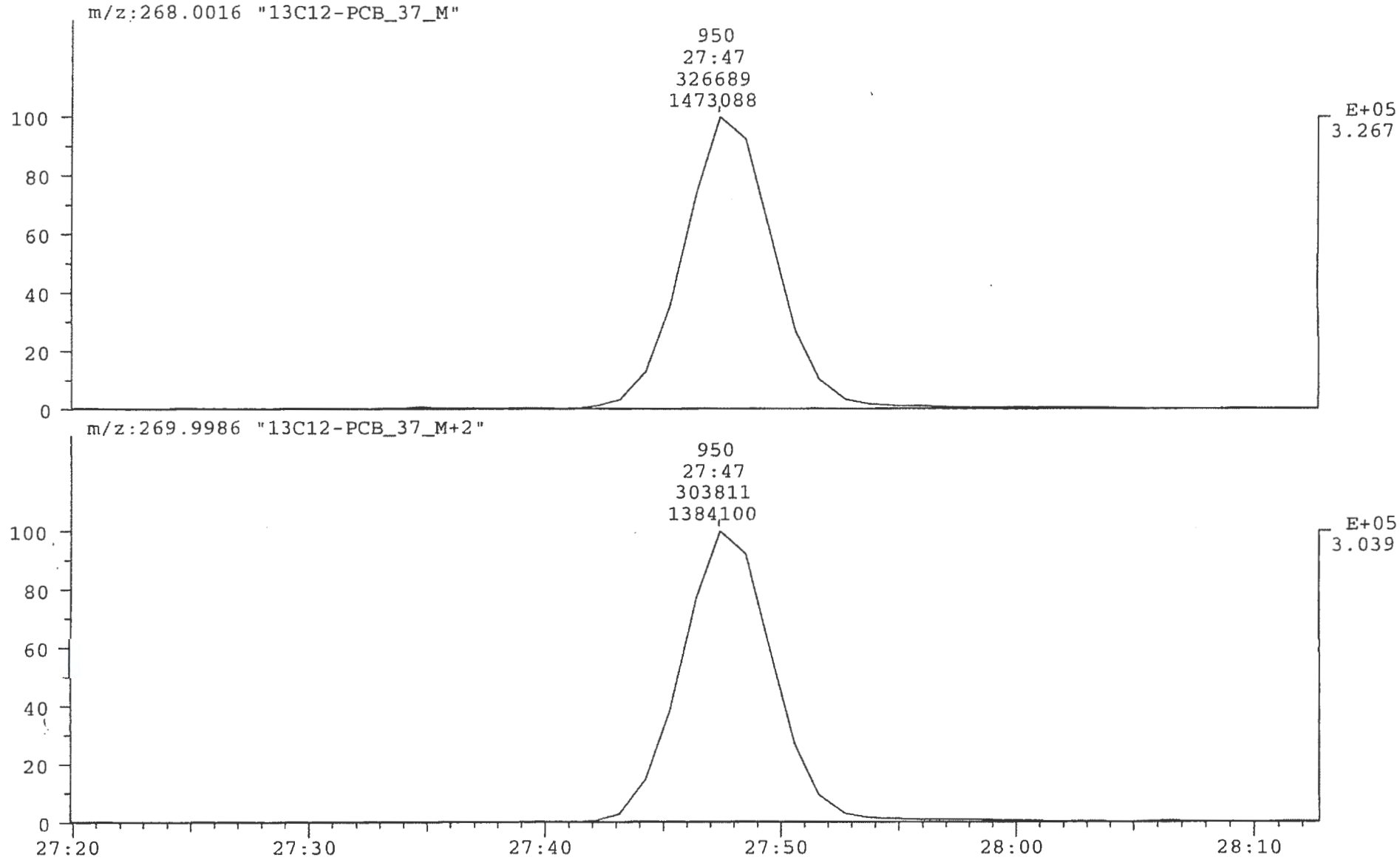
```
CHRO:  a07030731                                07-Mar-07   Elapse:  19:18.2      472
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   352 > 612             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



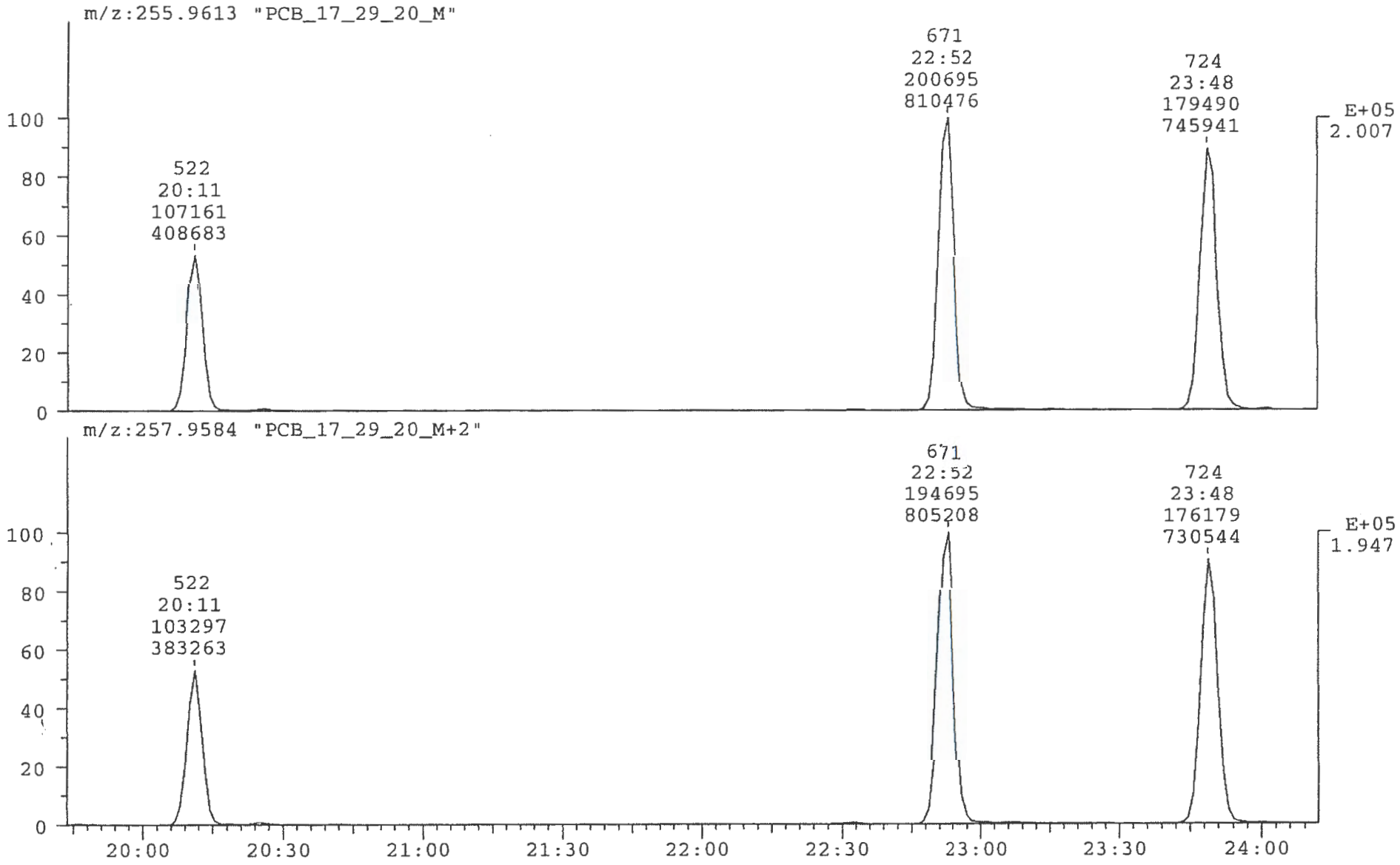
```
CHRO:  a07030731                                07-Mar-07   Elapse:  23:24.4      701
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   676 > 741             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030731                              07-Mar-07   Elapse:  27:46.3      949
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   924 > 974           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

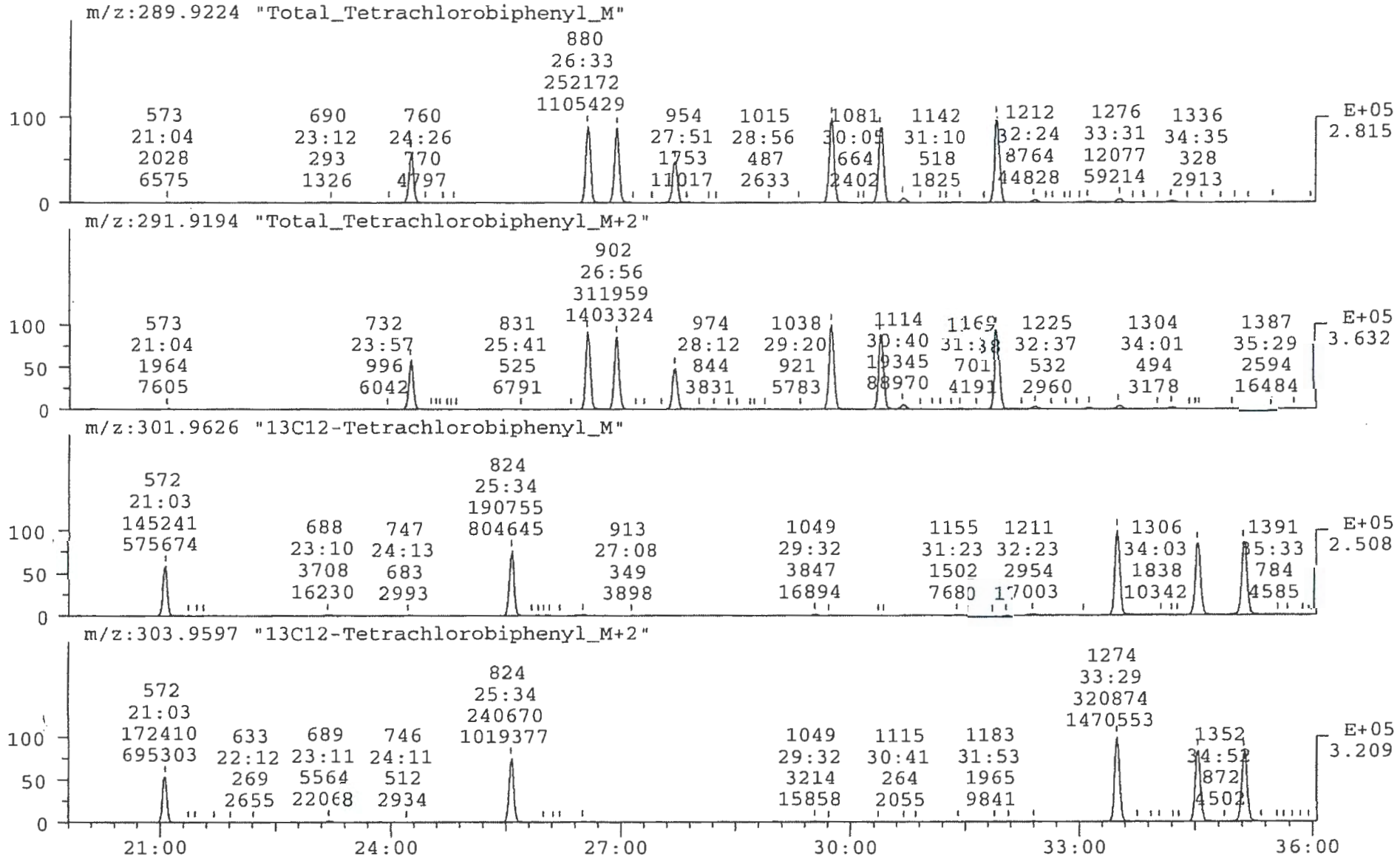


```
CHRO:  a07030731                          07-Mar-07   Elapse:  22:00.9     626
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1           Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 RT Mix3/Run1
Oper:  DCG          Client:  STL Knoxville            Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   496 > 746        Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```

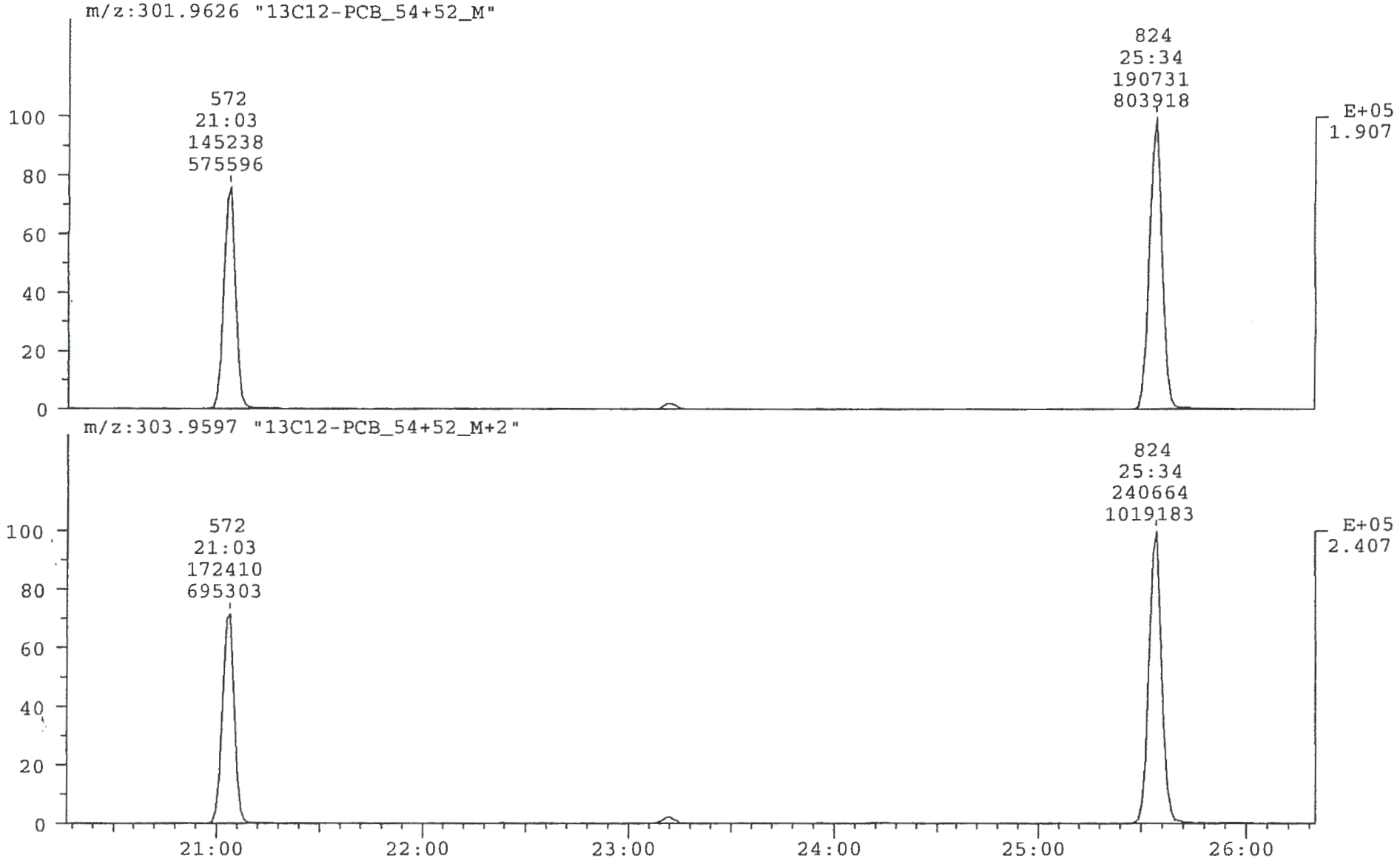


2220

CHRO: a07030731 07-Mar-07 Elapse: 27:54.8 957
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

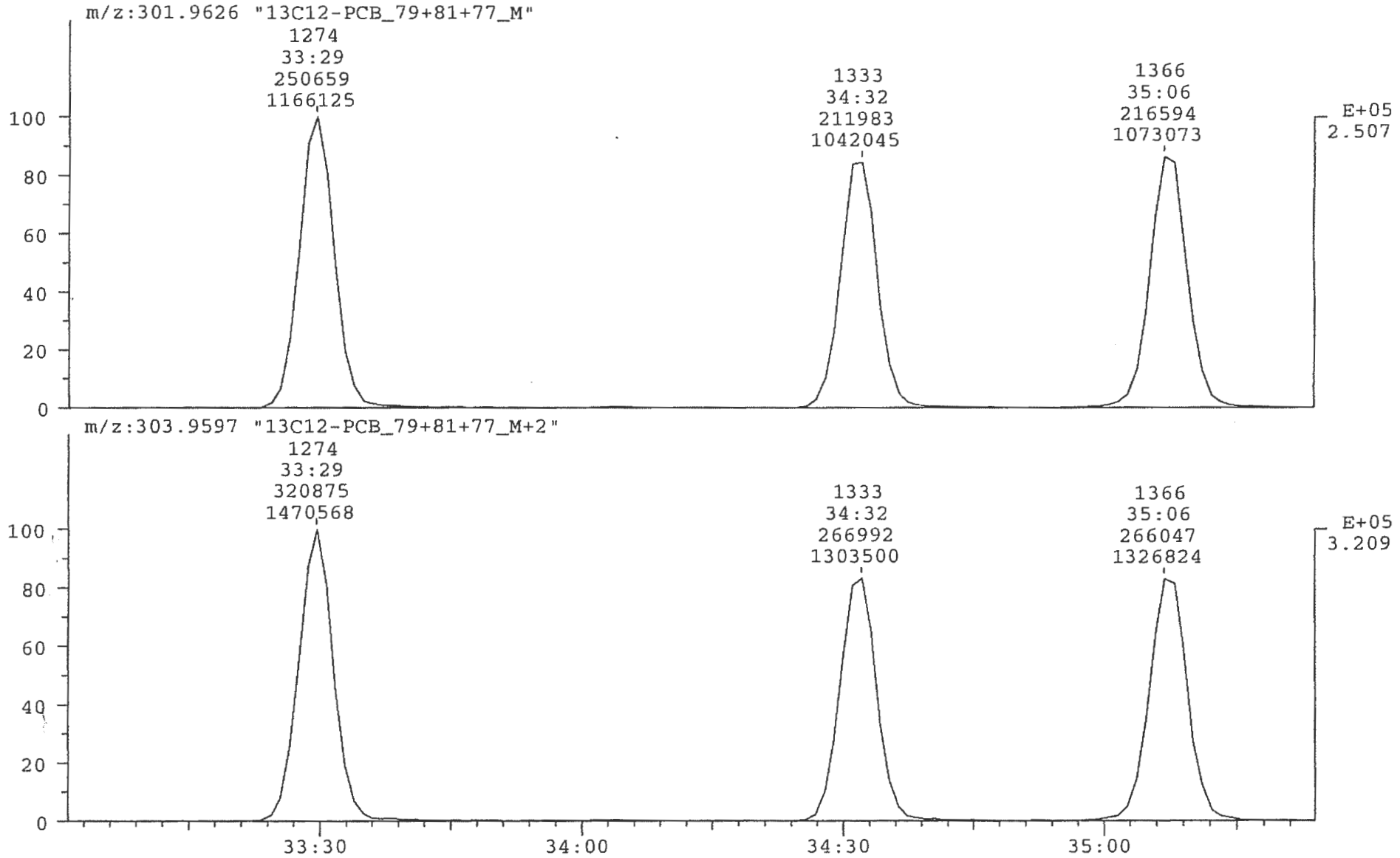


```
CHRO:  a07030731                                07-Mar-07   Elapse:  23:20.2      697
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

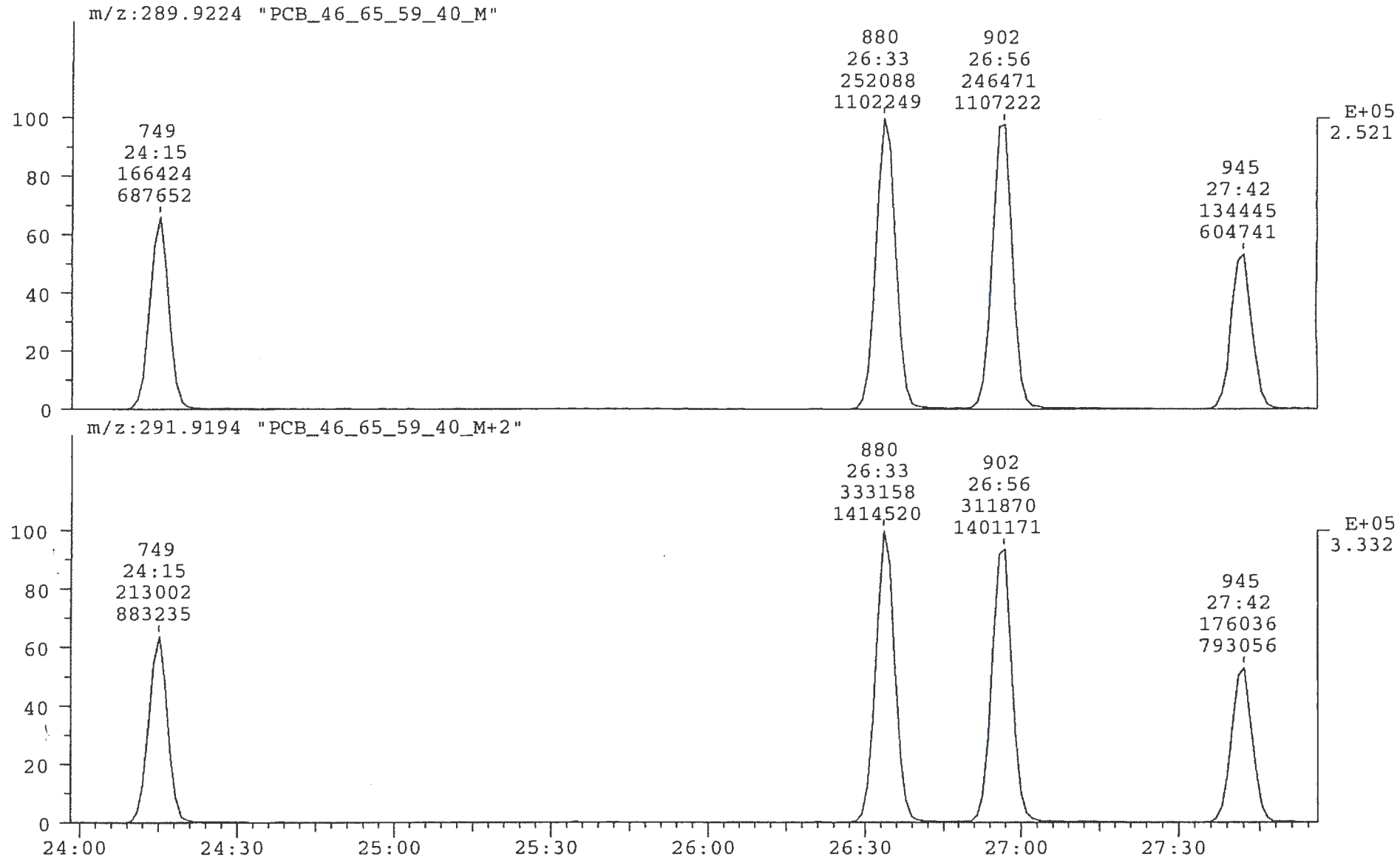


2222

CHRO: a07030731 07-Mar-07 Elapse: 34:15 1317
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1247 > 1382 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

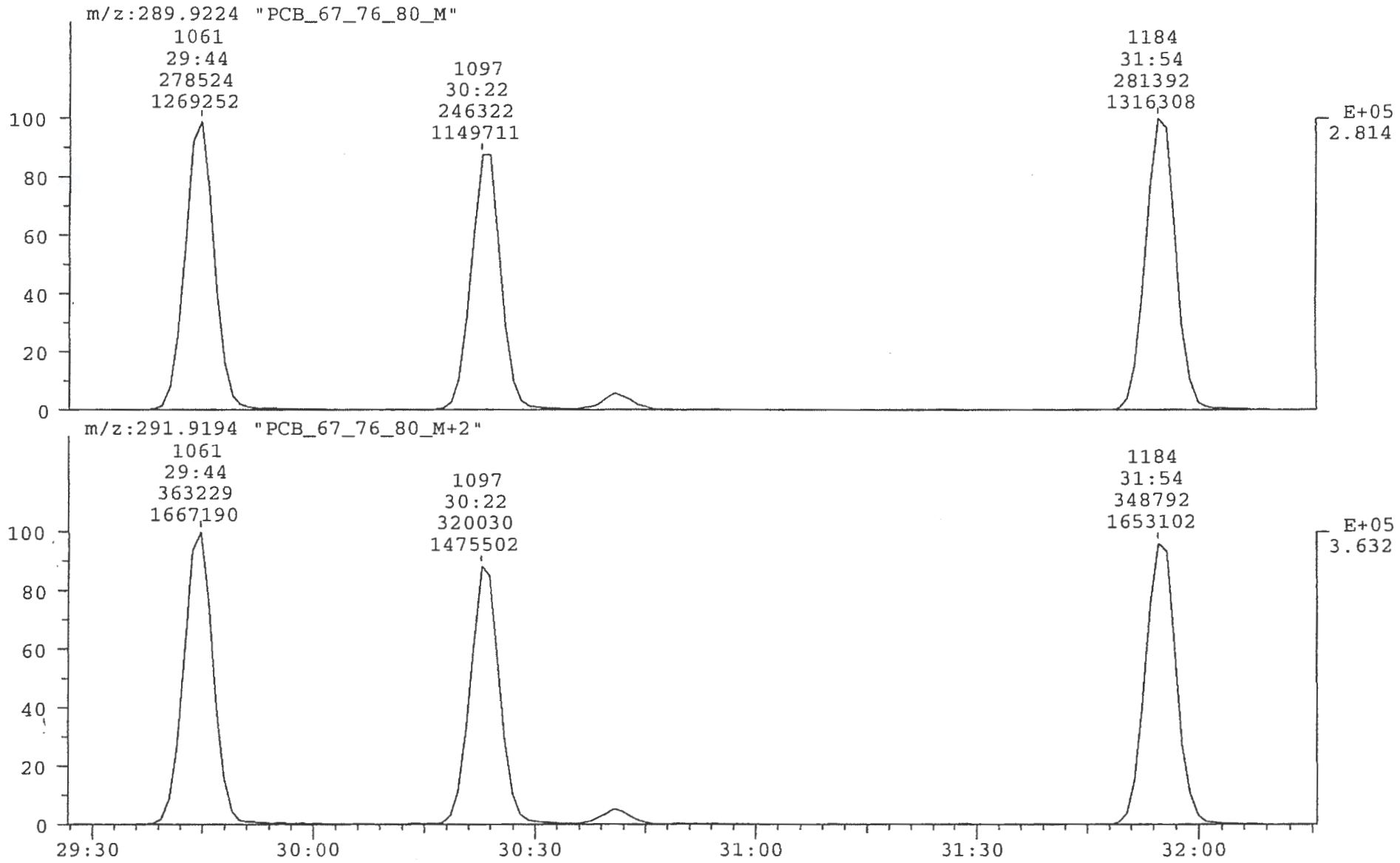


```
CHRO:  a07030731                                07-Mar-07   Elapse:  25:59.6      848
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   733 > 958             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

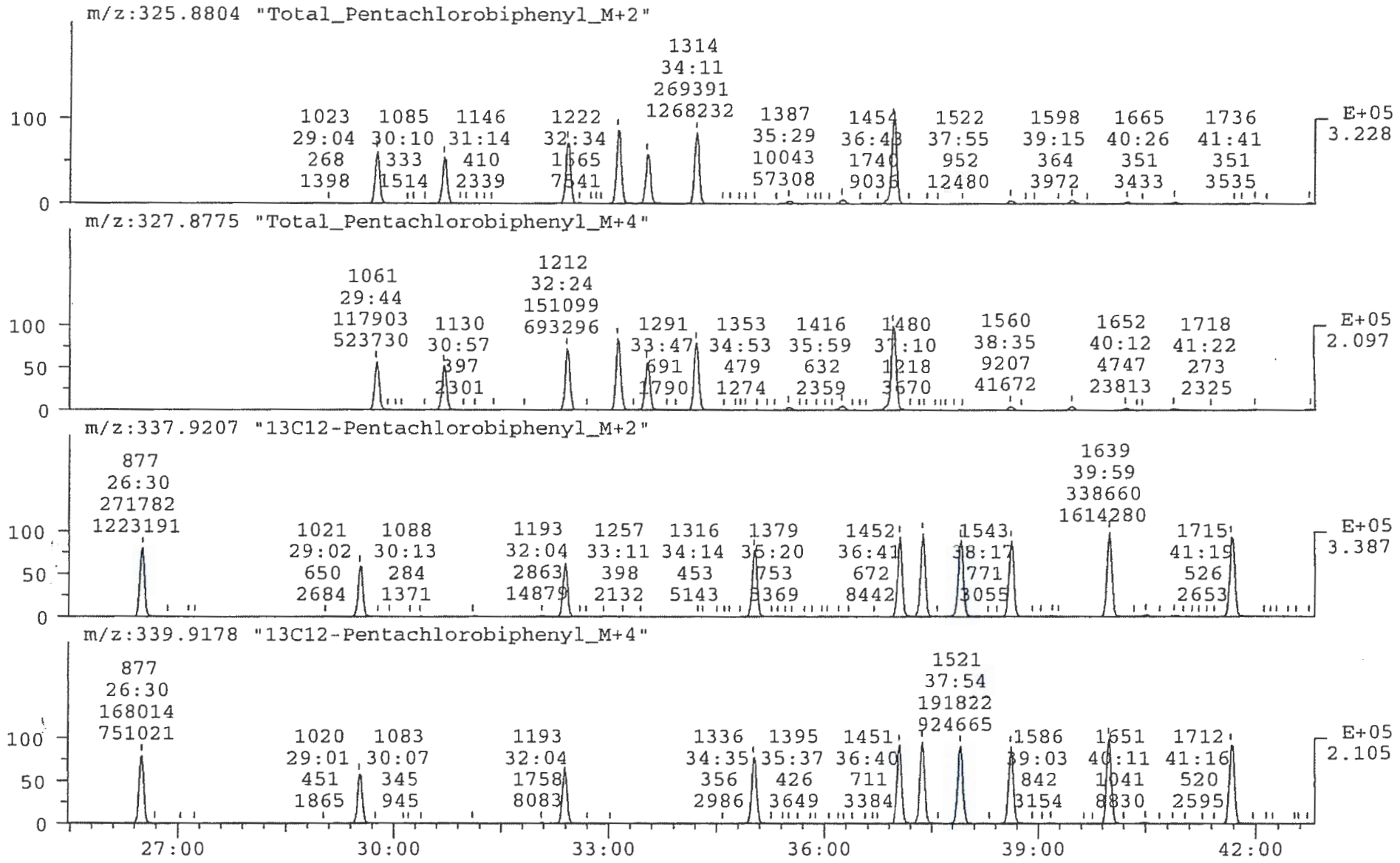


2224

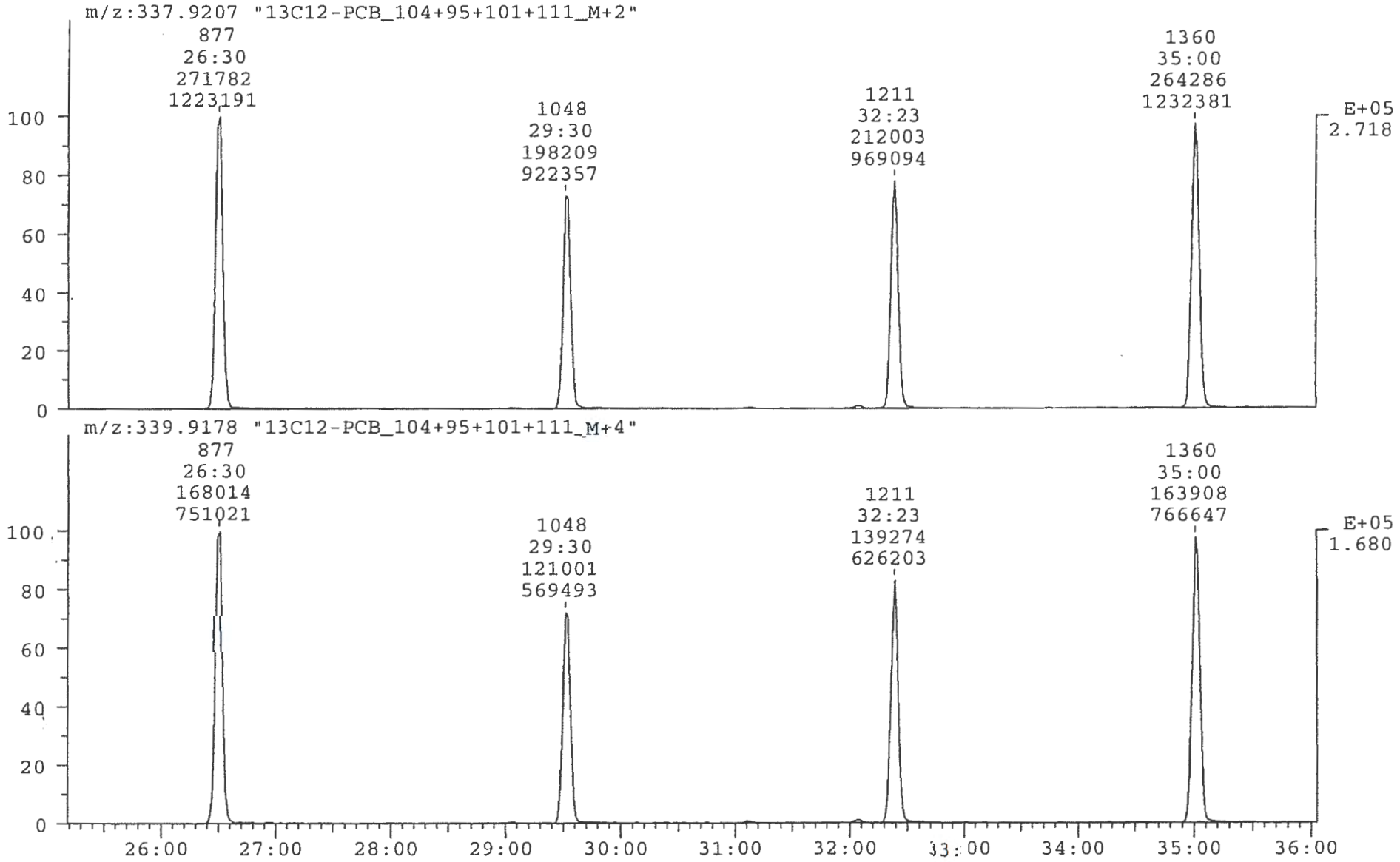
```
CHRO:  a07030731                                07-Mar-07  Elapse:  30:51      1124
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1044 > 1204          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



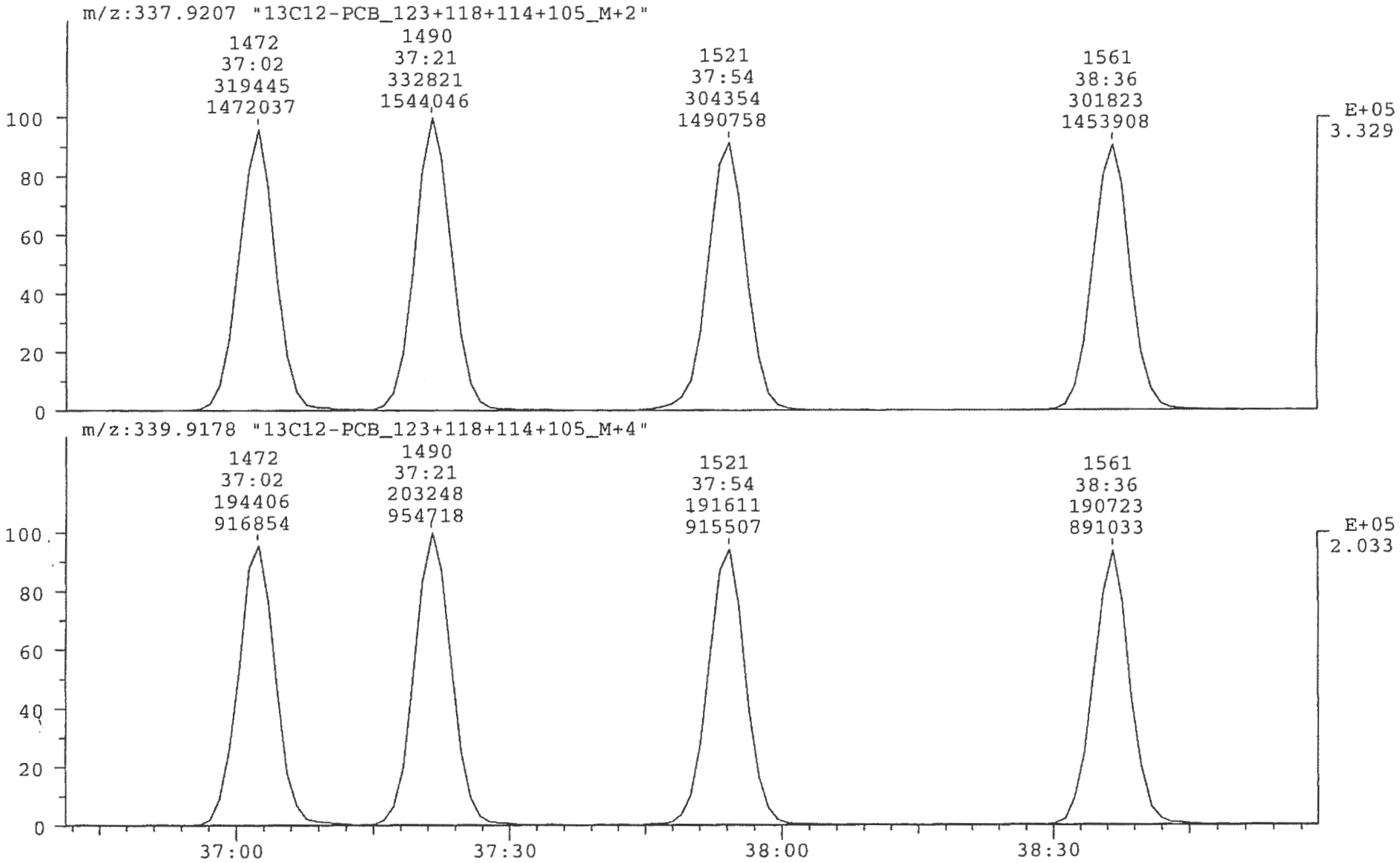
CHRO: a07030731 07-Mar-07 Elapse: 34:07 1310
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 818 > 1799 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



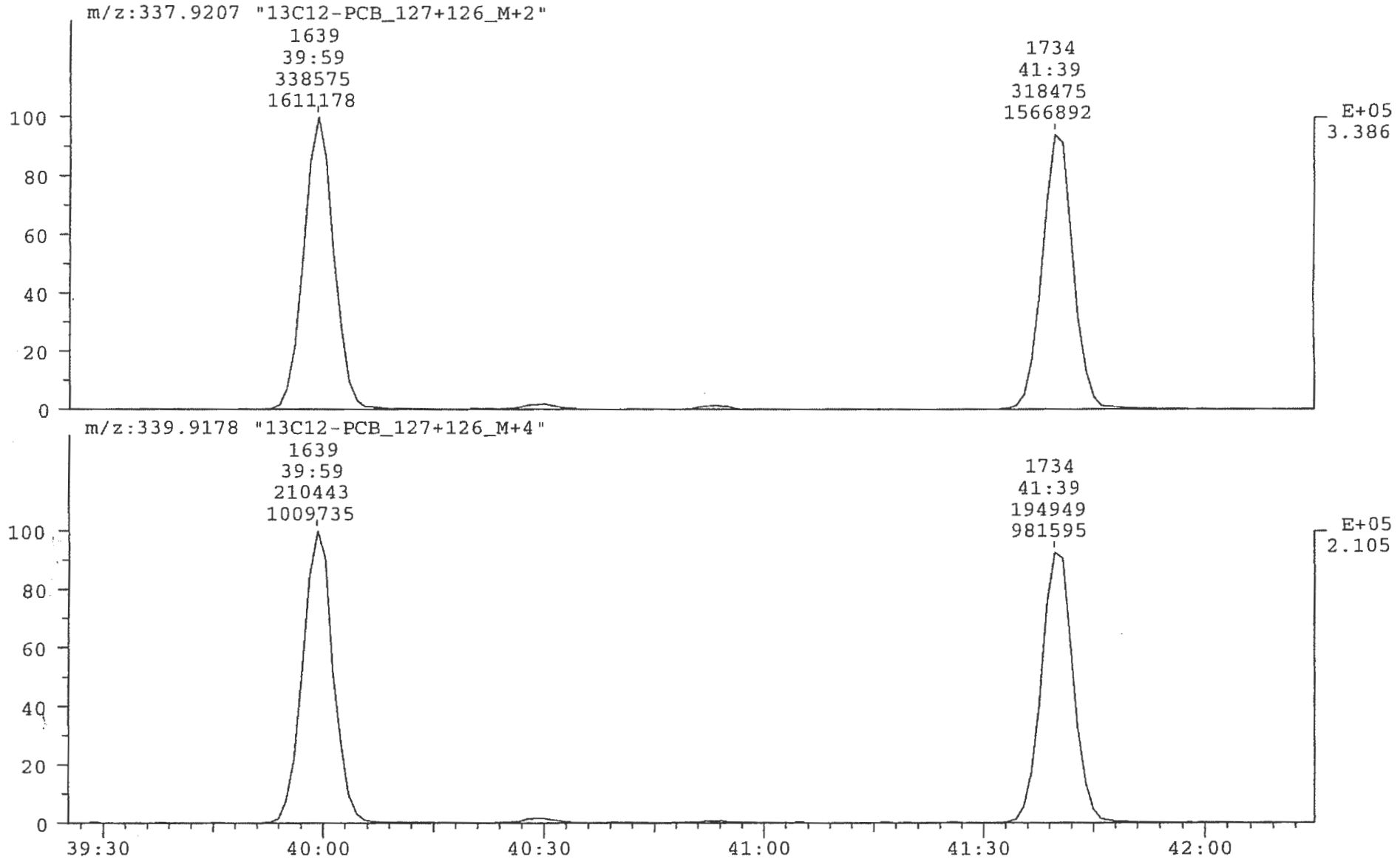
```
CHRO:  a07030731                                07-Mar-07   Elapse:  30:37      1111
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   802 > 1419            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



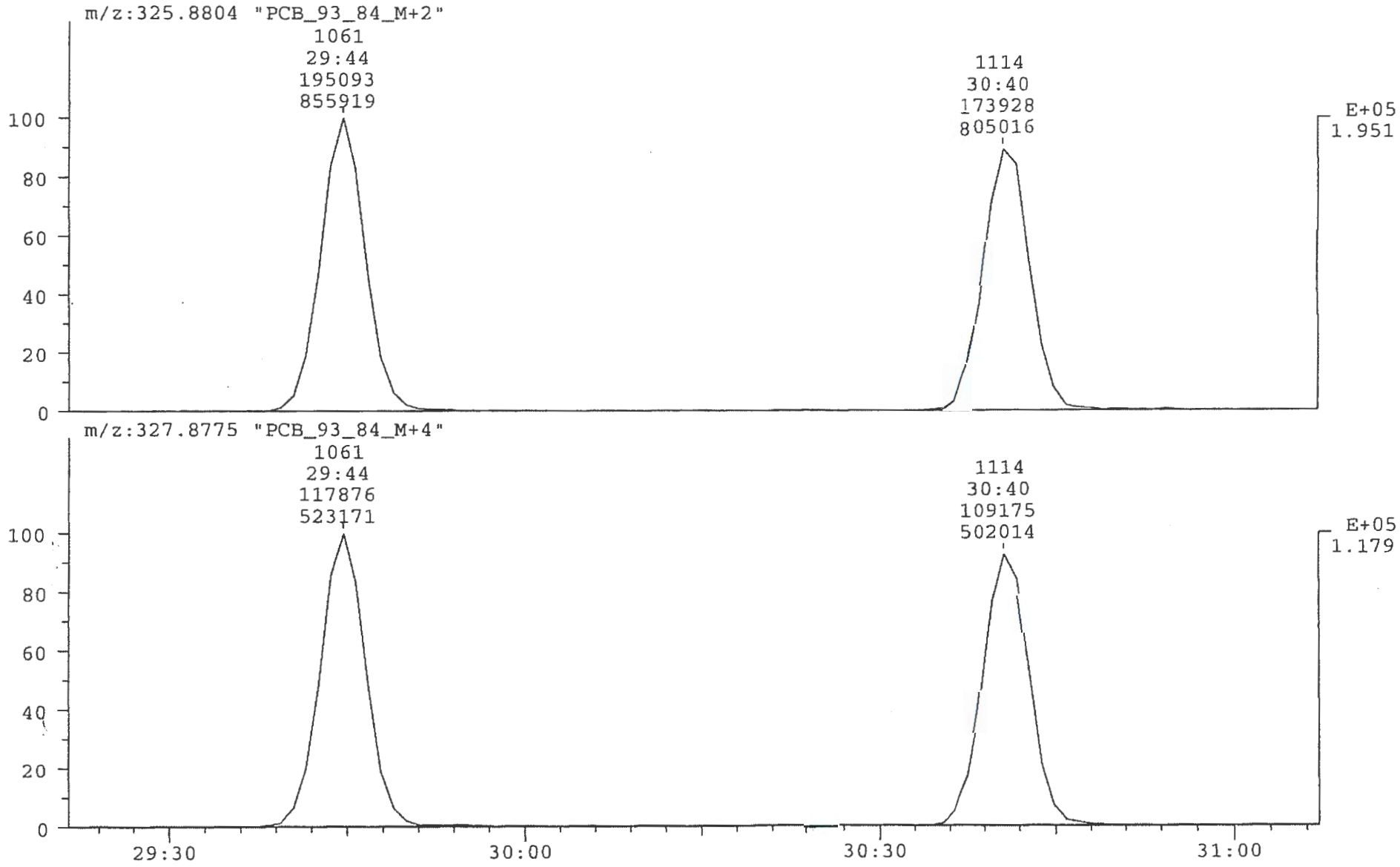
```
CHRO:  a07030731                              07-Mar-07   Elapse:  37:50      1517
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1452 > 1582          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



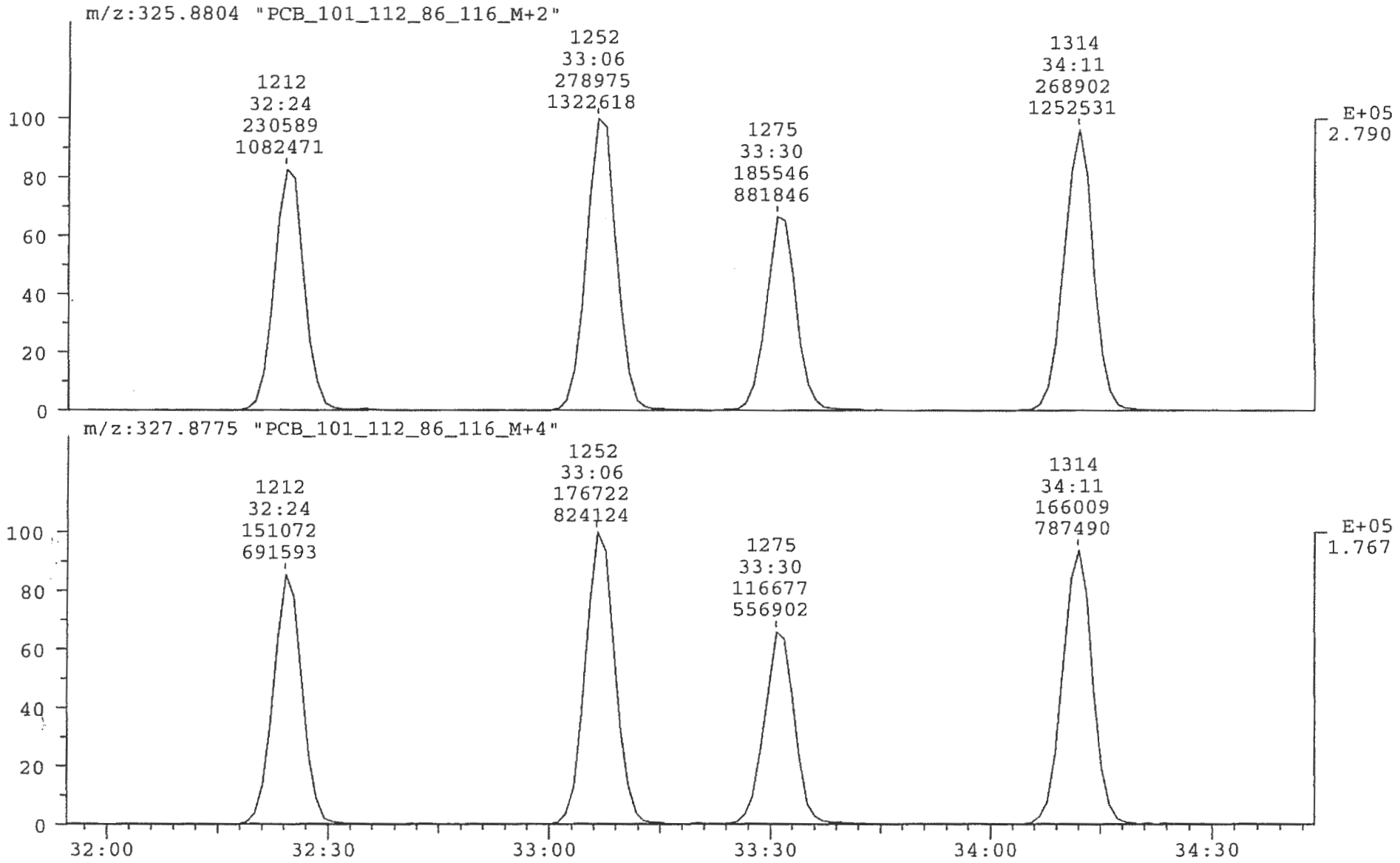
```
CHRO:  a07030731                                07-Mar-07   Elapse:  40:49      1687
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1607 > 1767            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



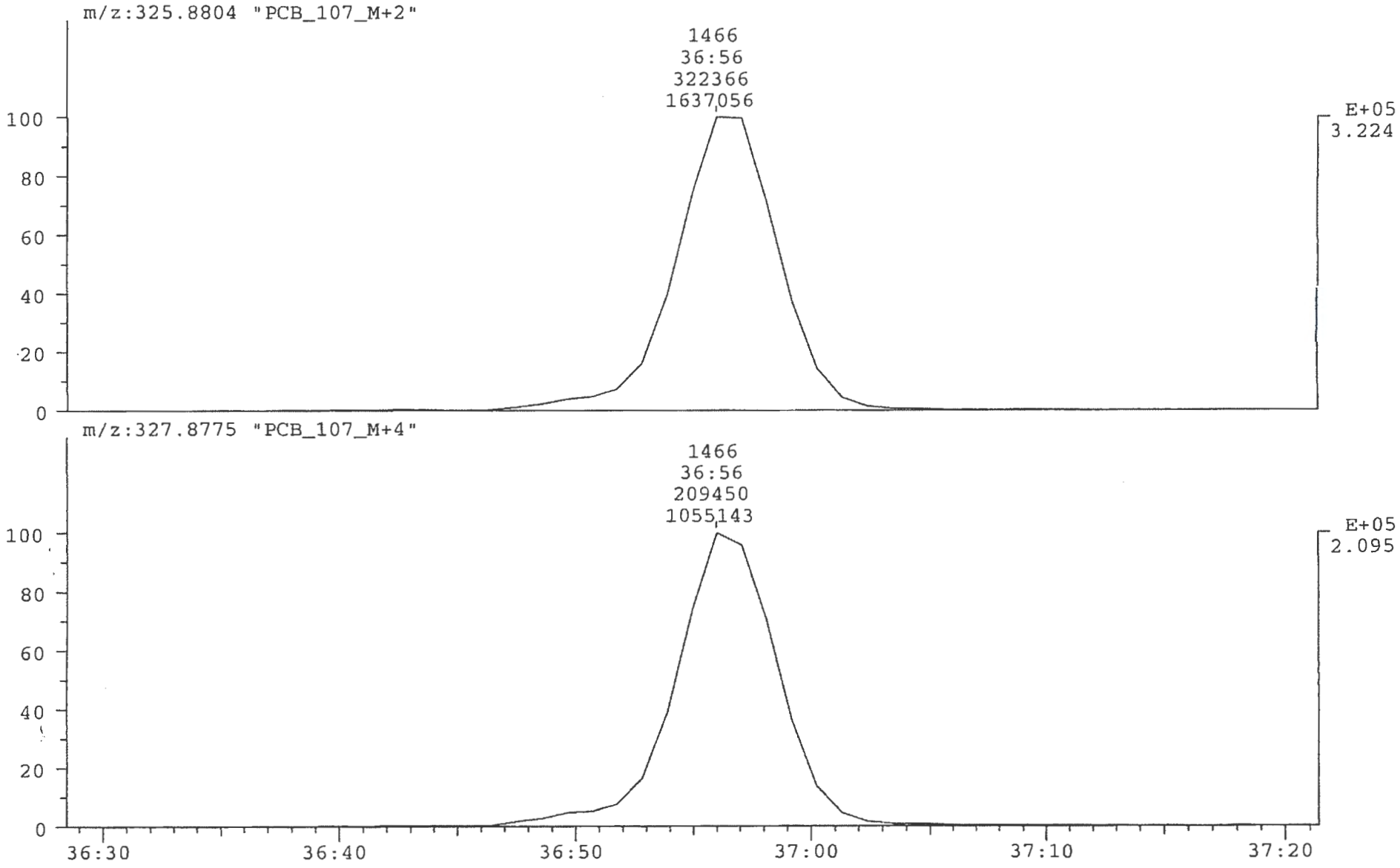
CHRO: a07030731 07-Mar-07 Elapse: 30:14 1089
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1039 > 1139 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030731                                07-Mar-07   Elapse:  33:19      1264
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1184 > 1344            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

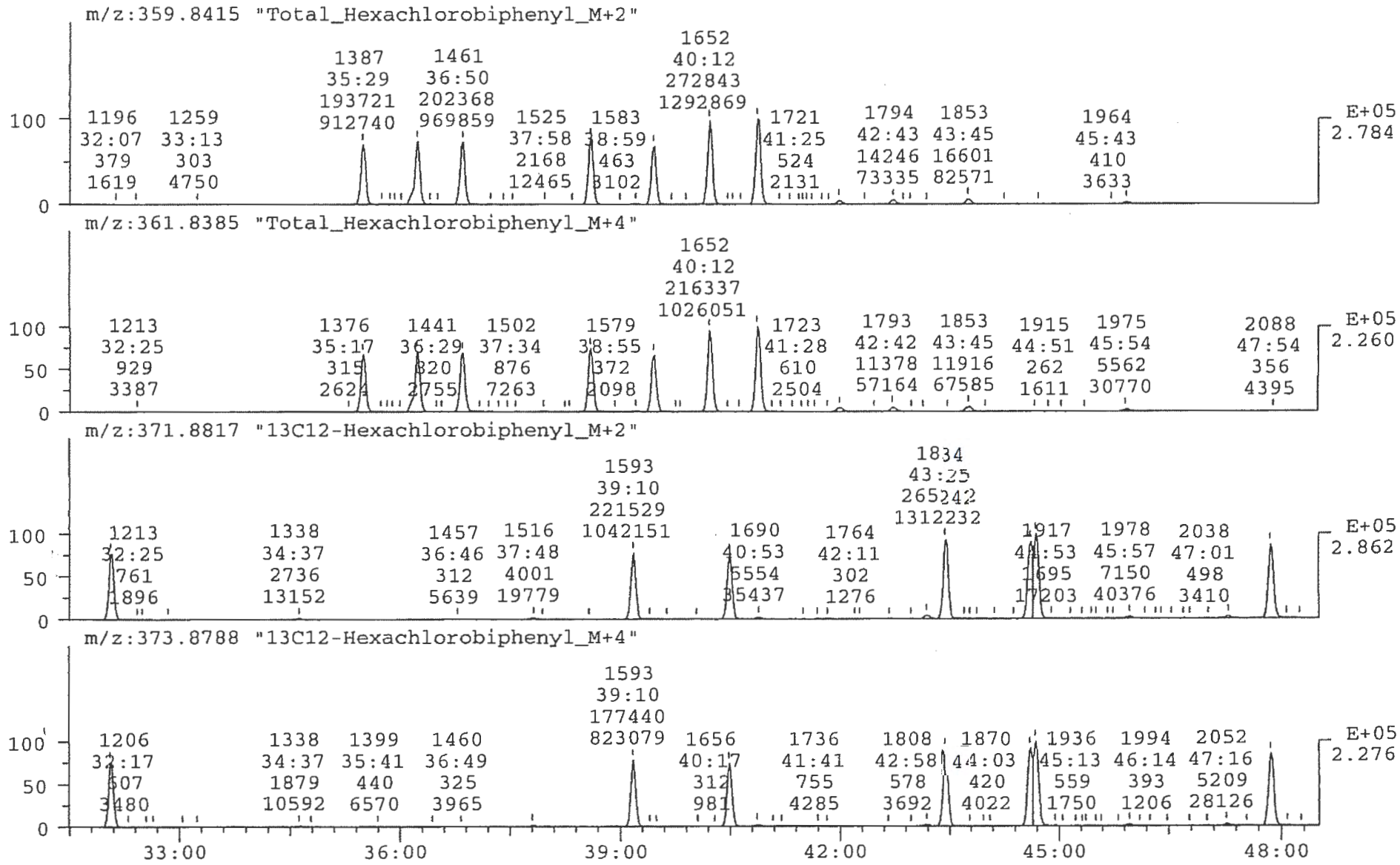


```
CHRO:  a07030731                                07-Mar-07   Elapse:  36:54      1465
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1440 > 1490           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

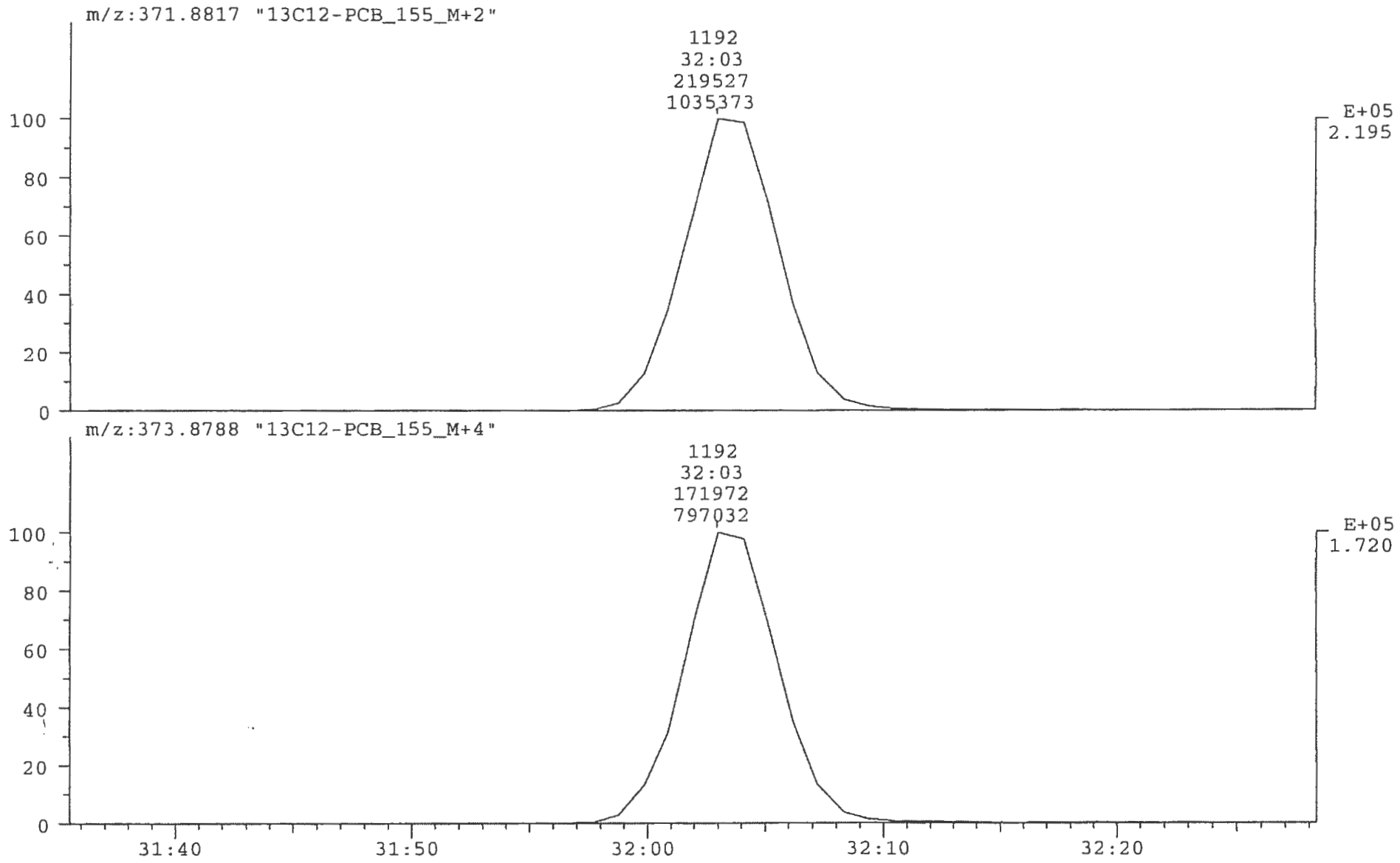


2:232

CHRO: a07030731 07-Mar-07 Elapse: 39:59 1639
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1160 > 2122 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

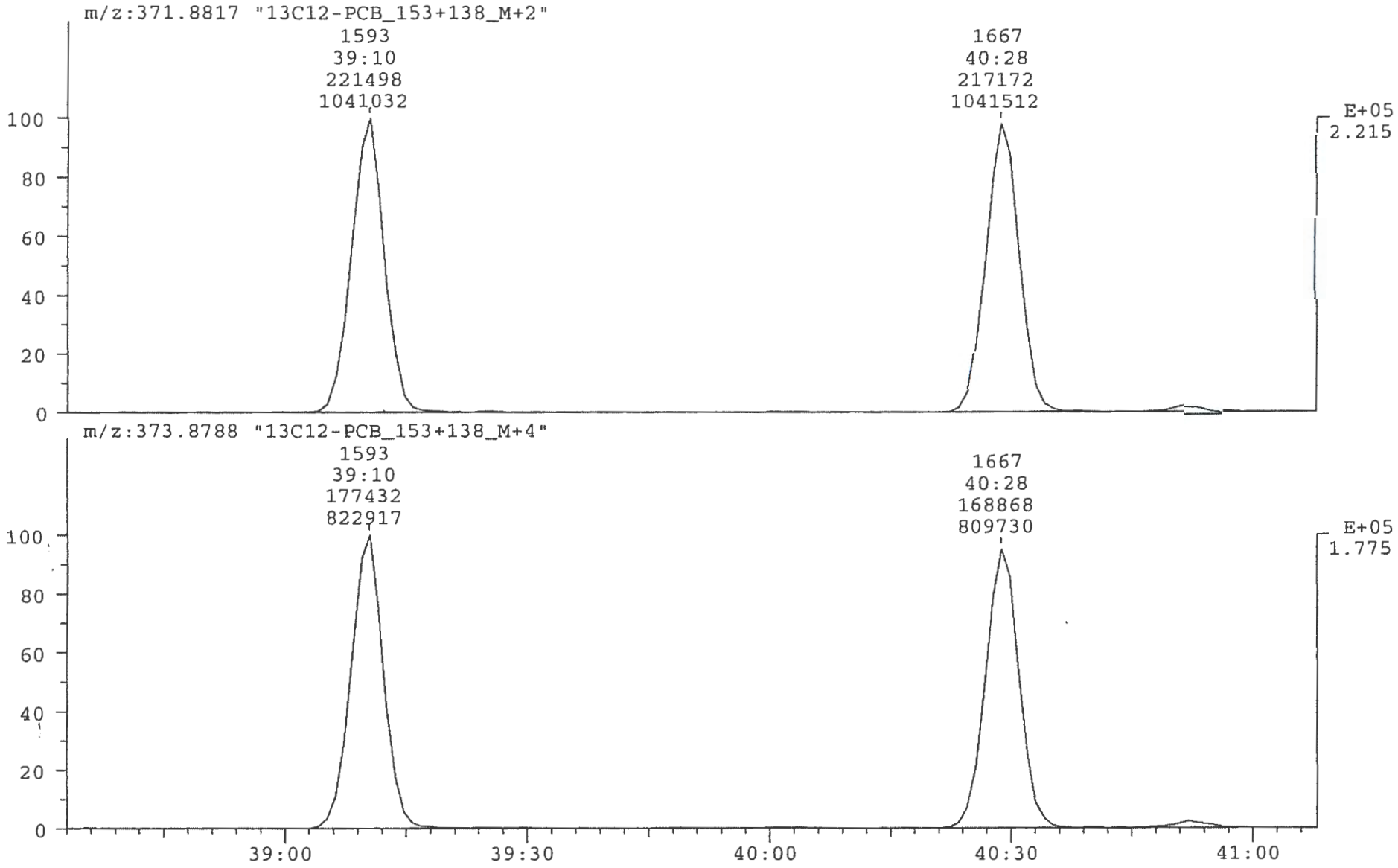


```
CHRO:  a07030731                                07-Mar-07  Elapse:  32:02      1191
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1166 > 1216          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

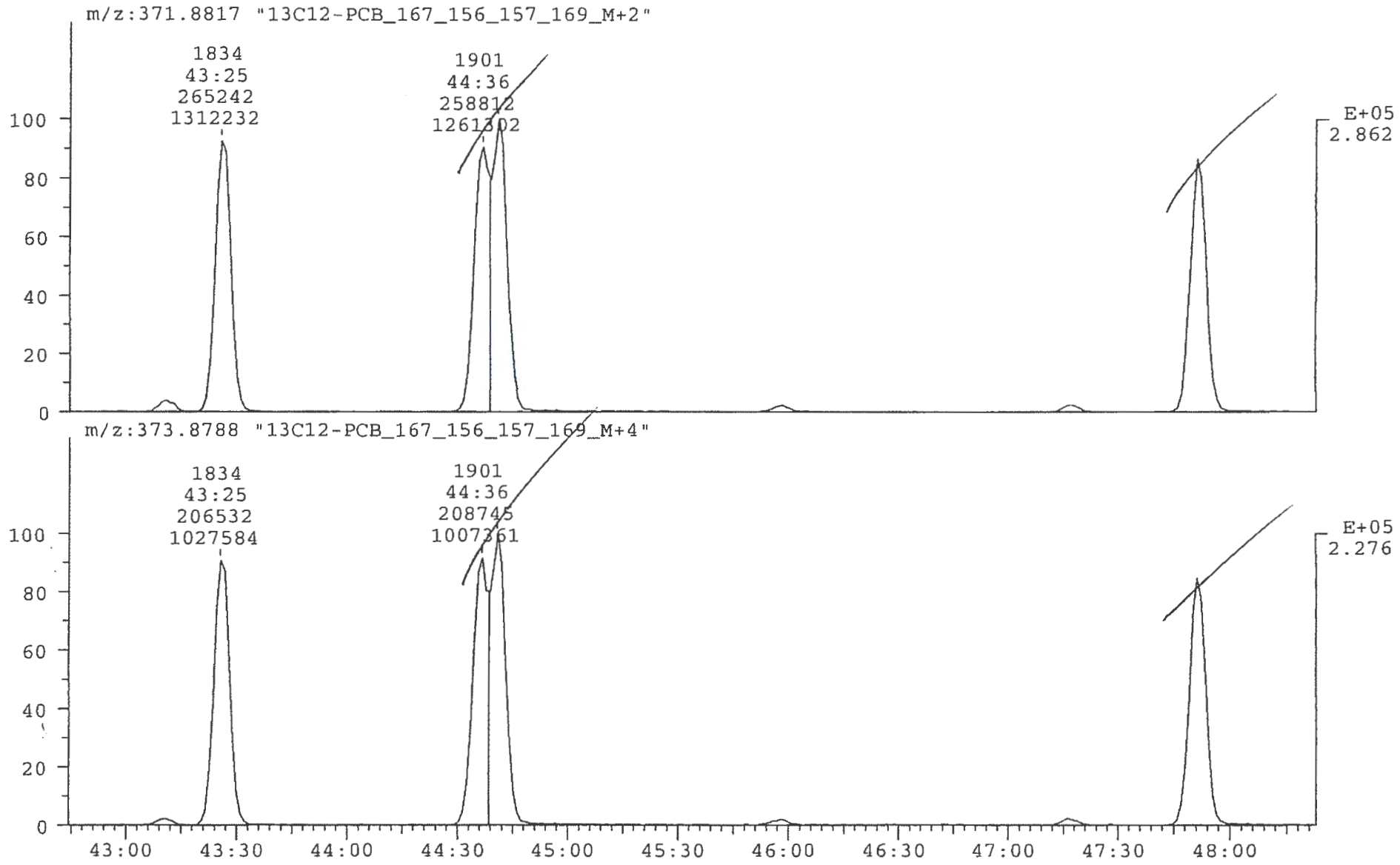


2234

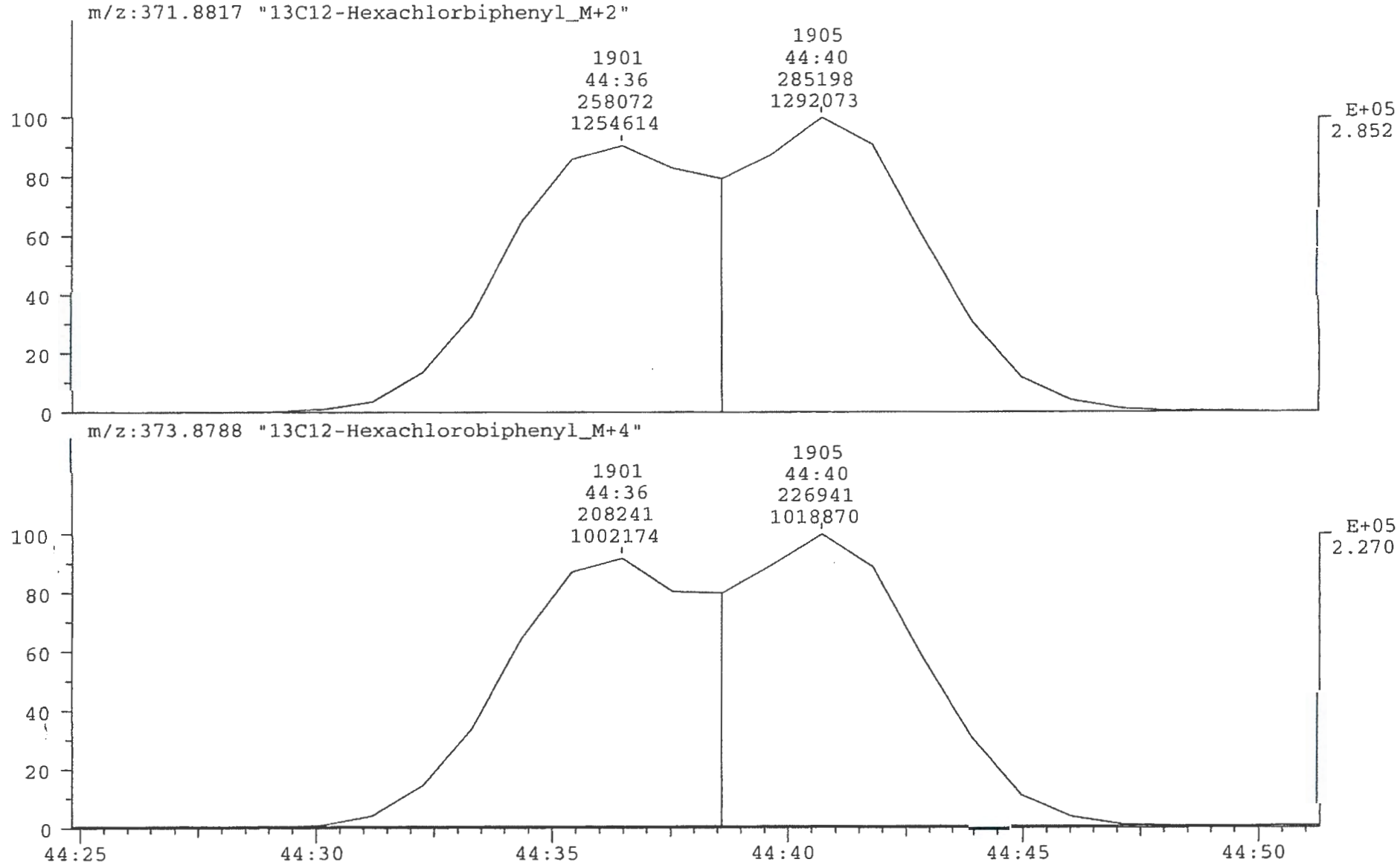
```
CHRO:  a07030731                                07-Mar-07   Elapse:  39:49      1630
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1558 > 1704           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



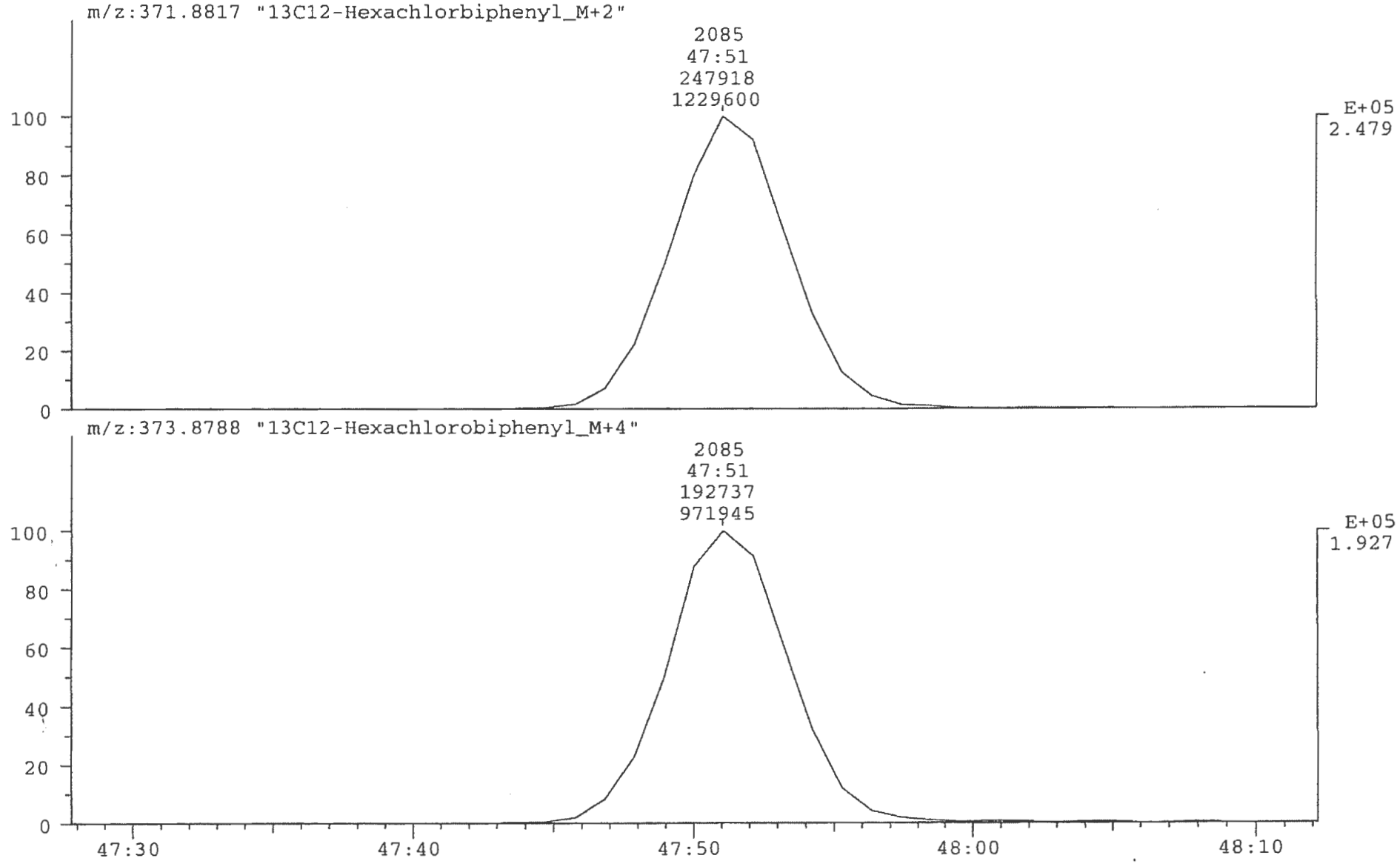
```
CHRO:  a07030731                                07-Mar-07   Elapse:  45:38      1960
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1795 > 2115           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



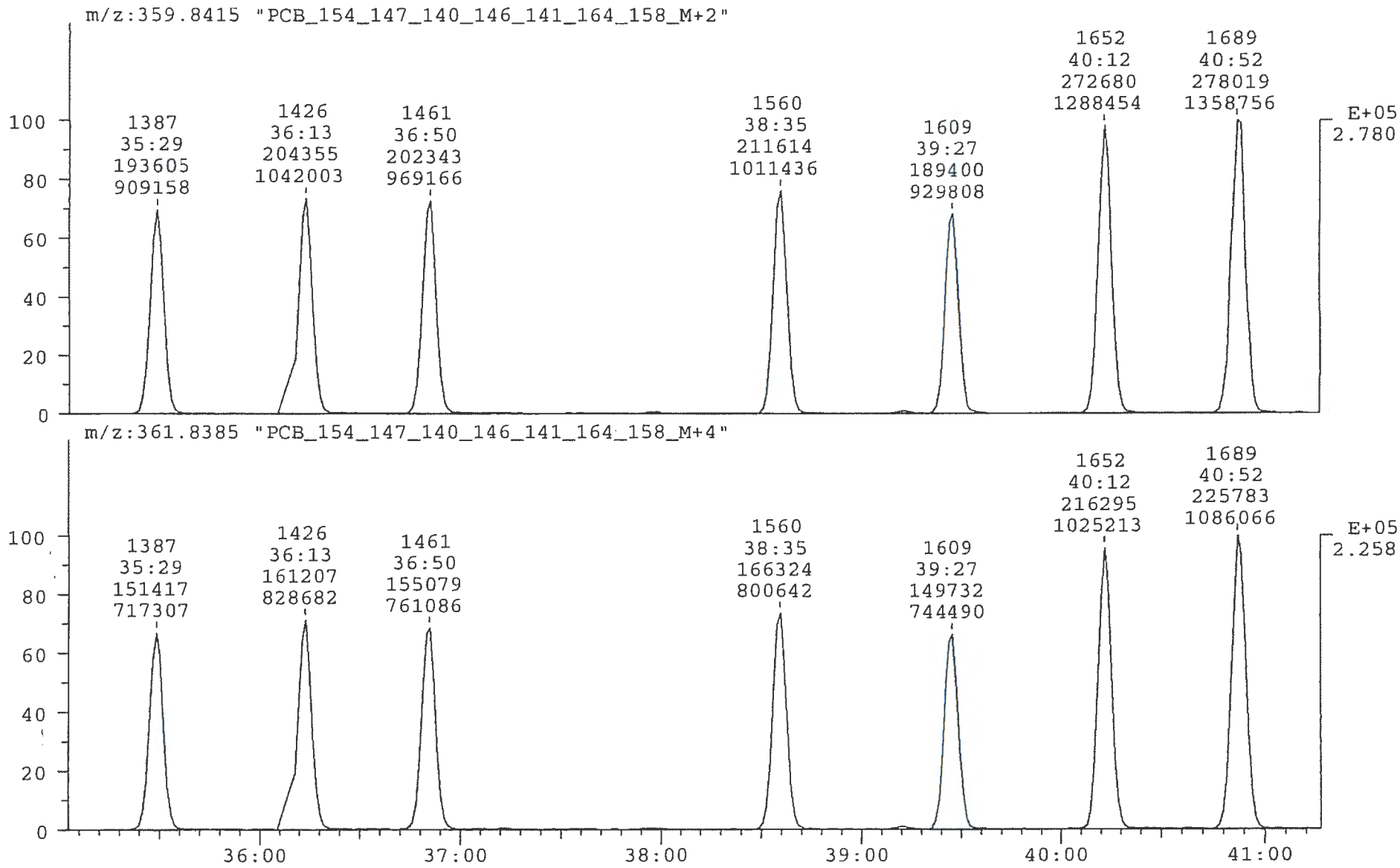
```
CHRO:  a07030731                                07-Mar-07   Elapse:  56:12      2555
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1890 > 1915           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



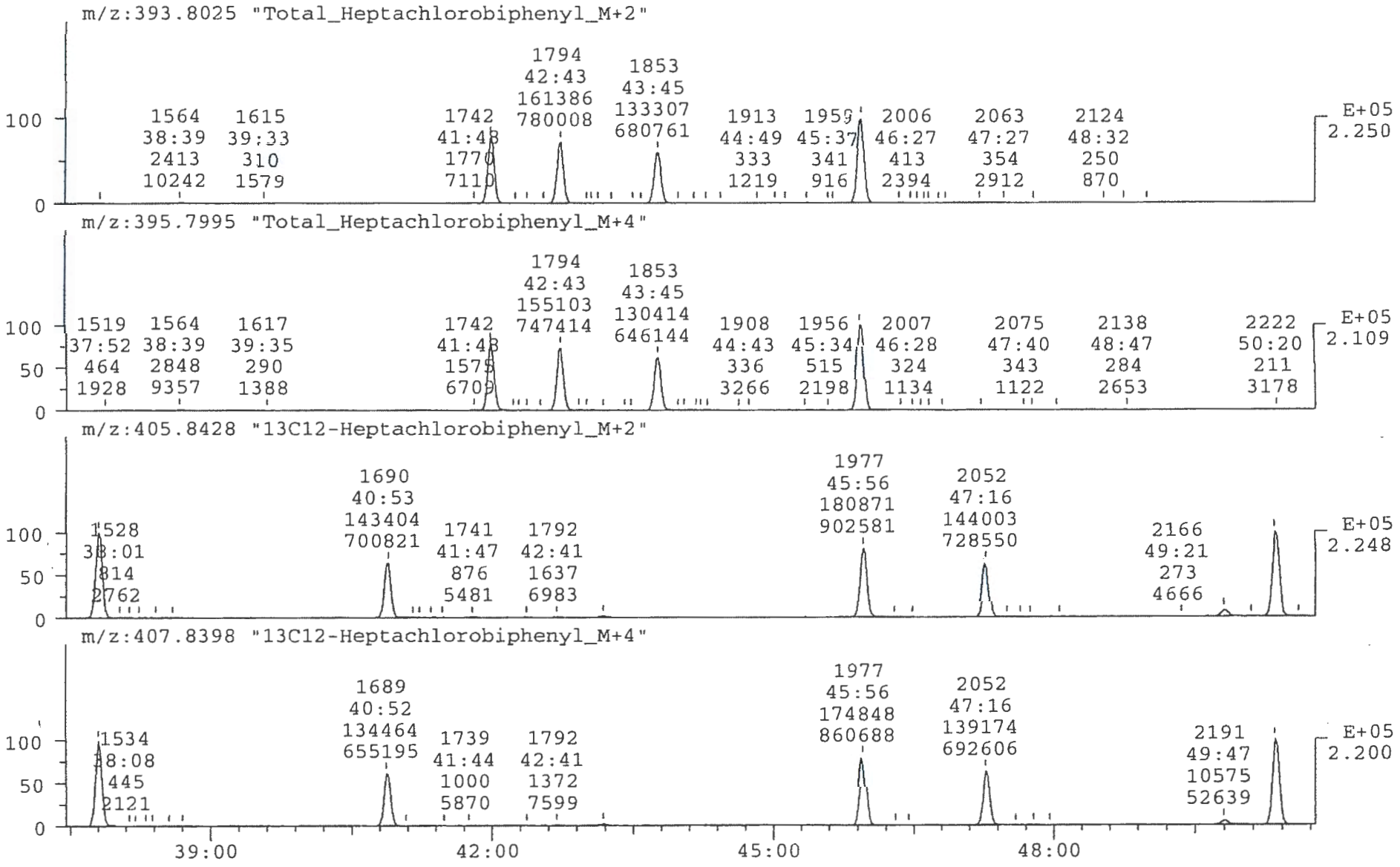
CHRO: a07030731 07-Mar-07 Elapse: 56:12 2555
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2063 > 2105 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030731                                07-Mar-07   Elapse:  38:11      1537
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1362 > 1712           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

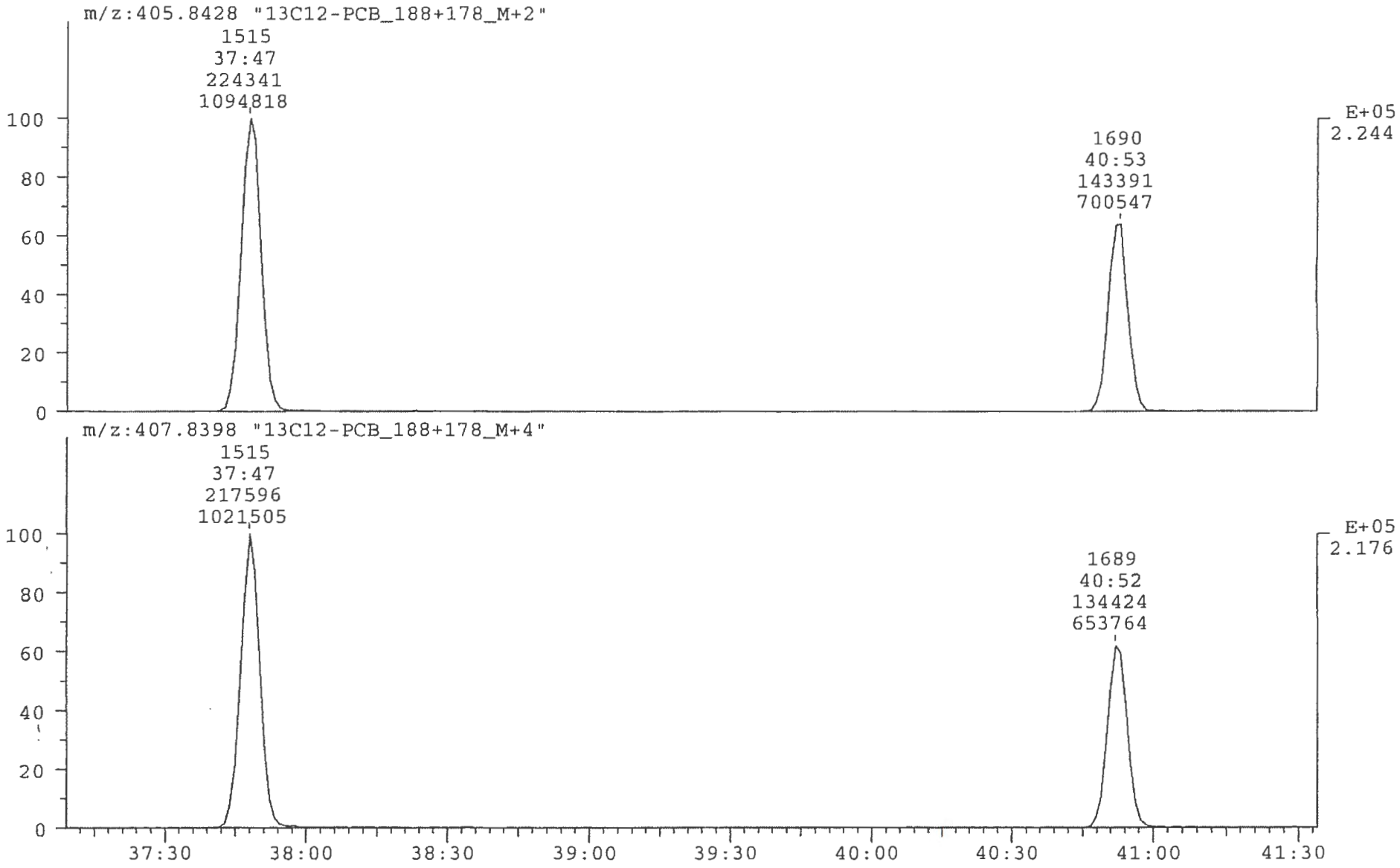


CHRO: a07030731 07-Mar-07 Elapse: 44:05 1872
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1495 > 2245 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

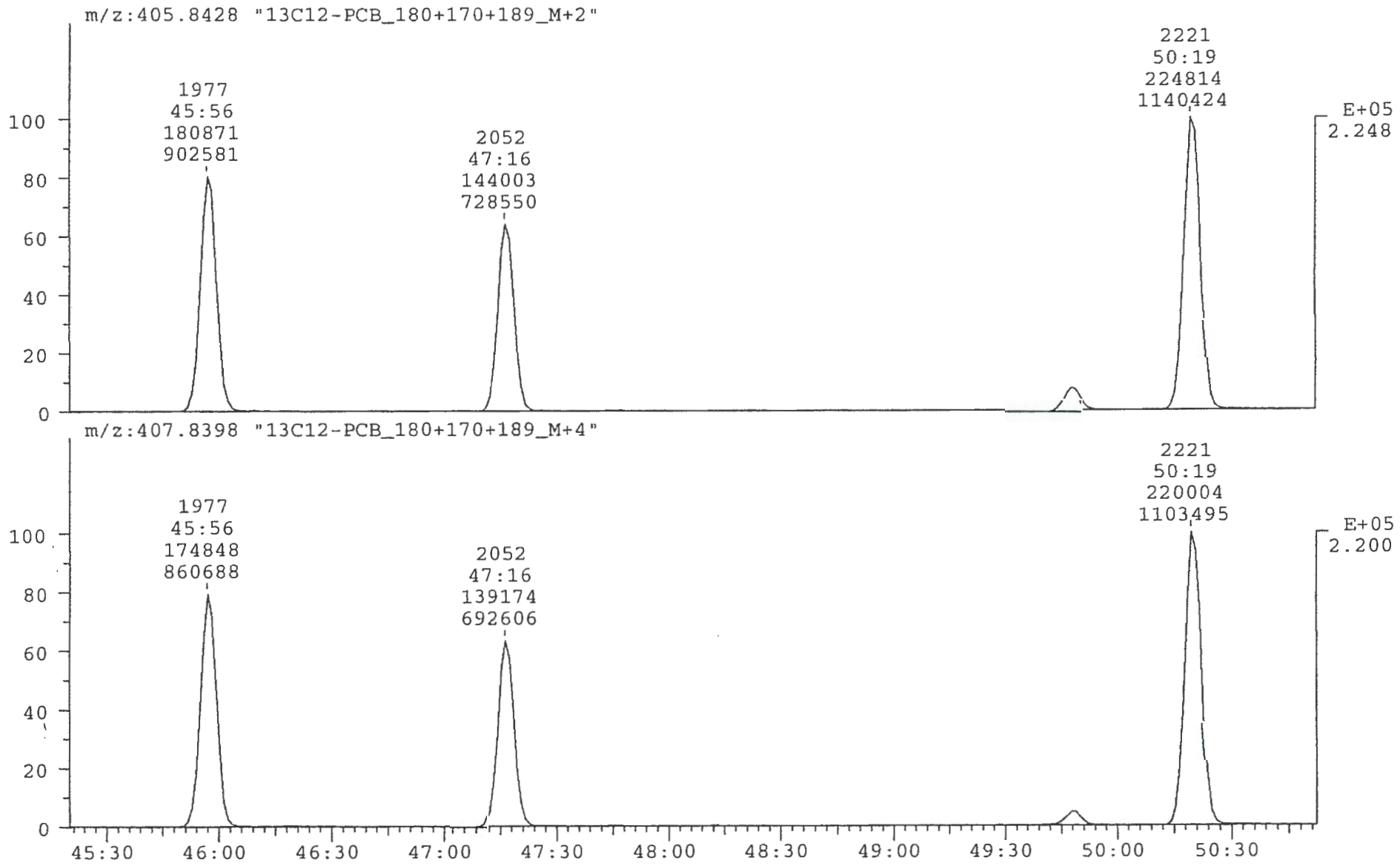


2240

```
CHRO:  a07030731                                07-Mar-07   Elapse:  39:21      1603
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1478 > 1729           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

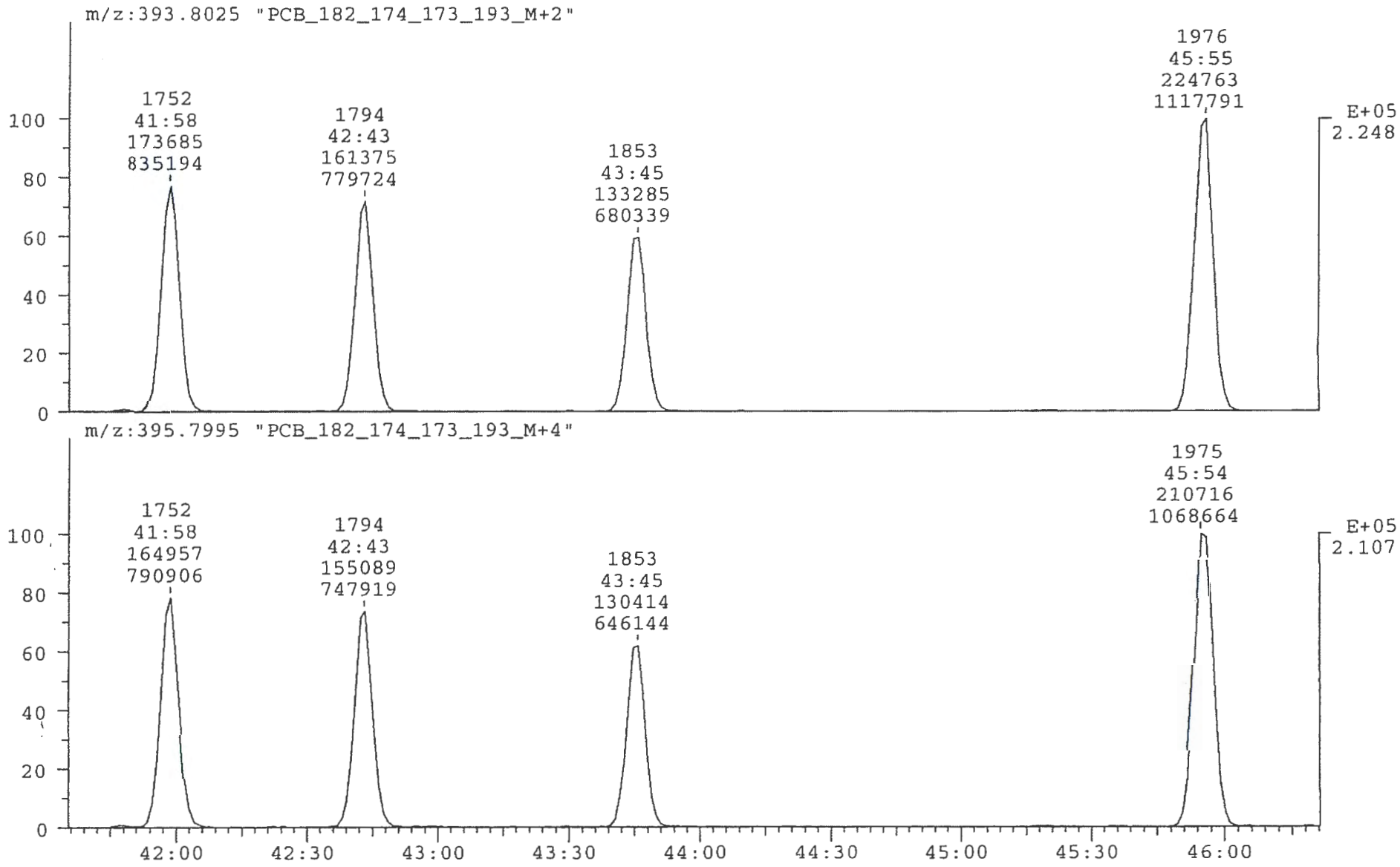


CHRO: a07030731 07-Mar-07 Elapse: 48:09 2102
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1942 > 2252 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

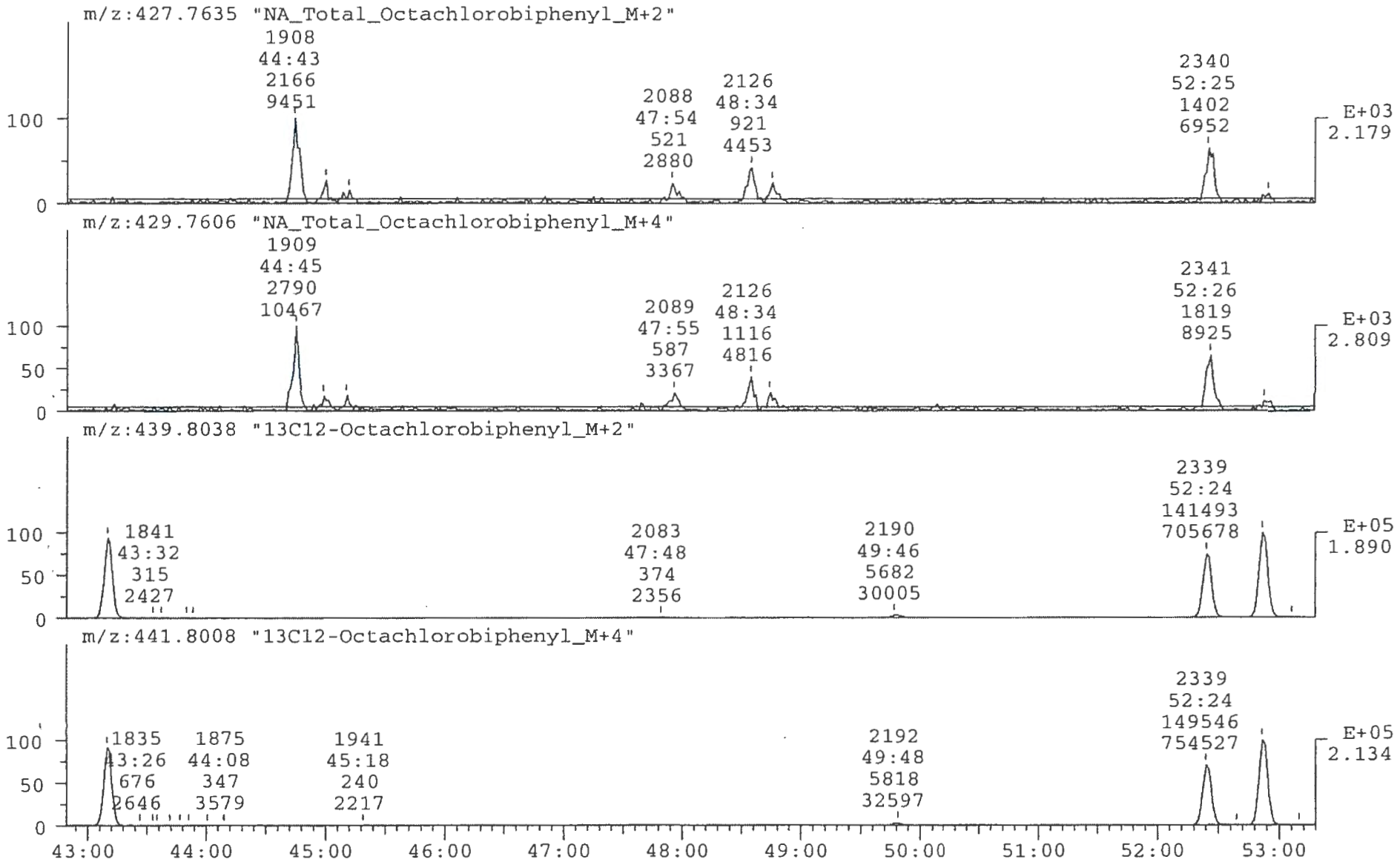


2242

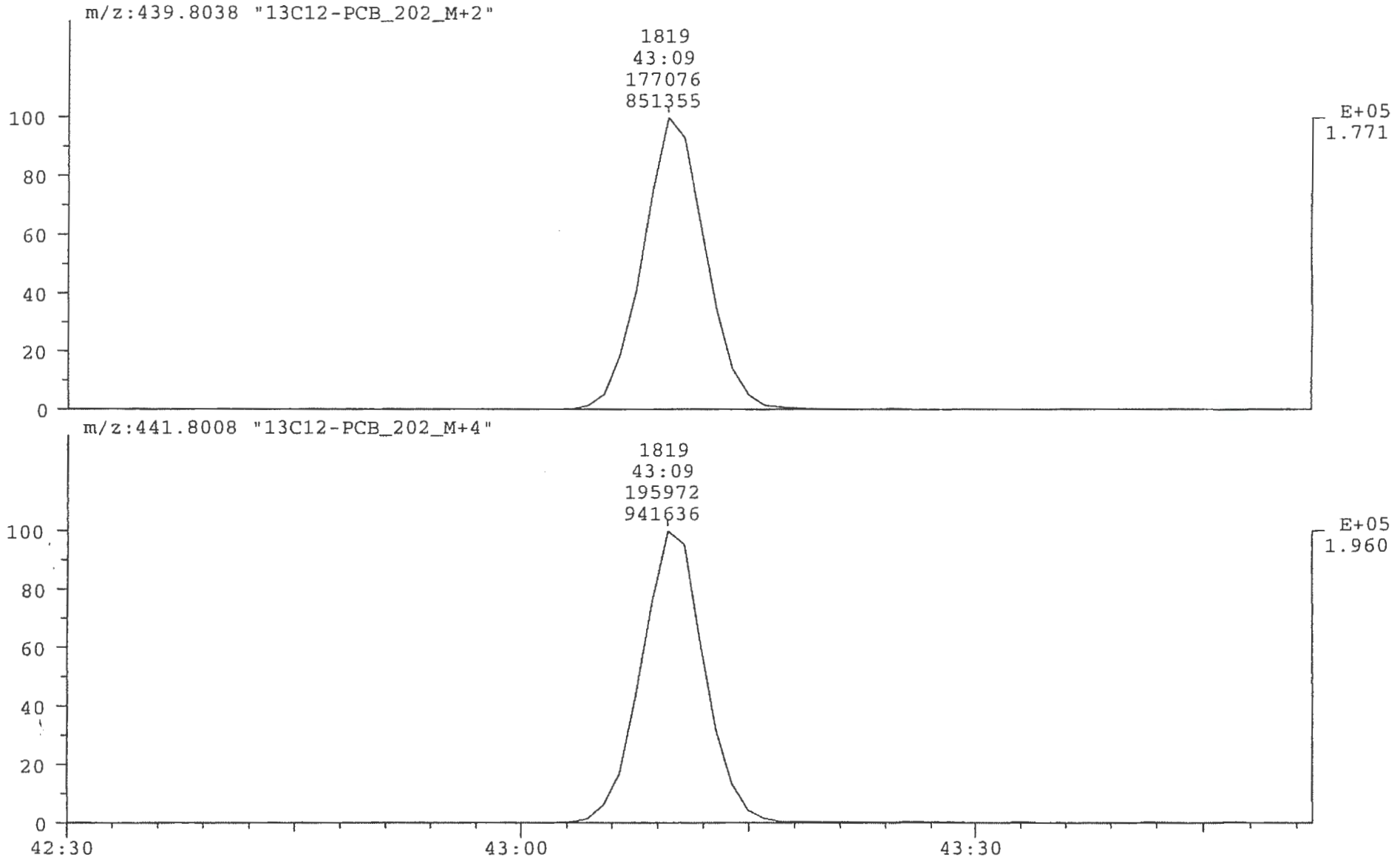
```
CHRO:  a07030731                                07-Mar-07  Elapse:  43:58      1865
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   1730 > 2000          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



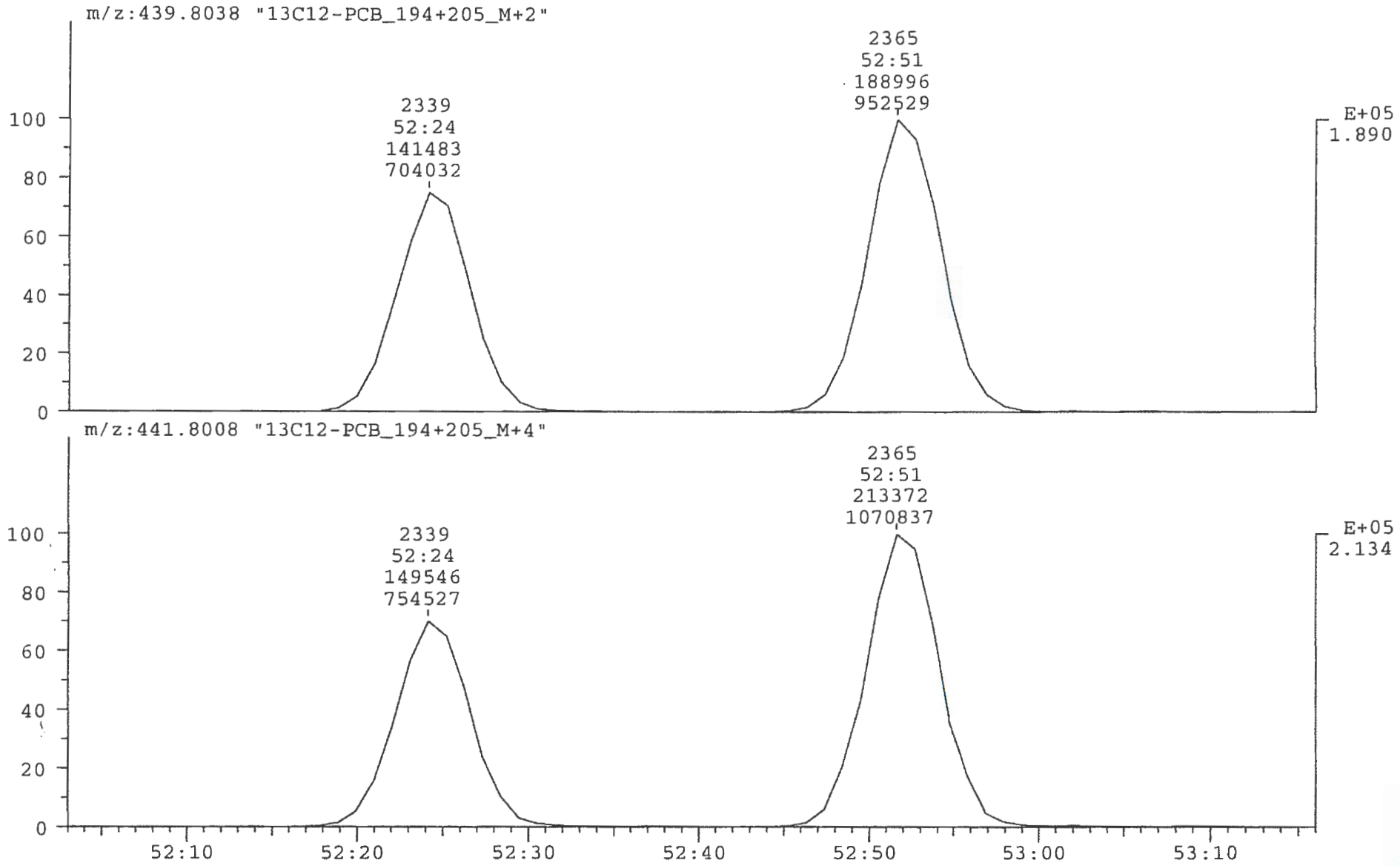
CHRO: a07030731 07-Mar-07 Elapse: 48:02 2096
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1800 > 2390 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030731                                07-Mar-07  Elapse:  43:07      1817
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1782 > 1859         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

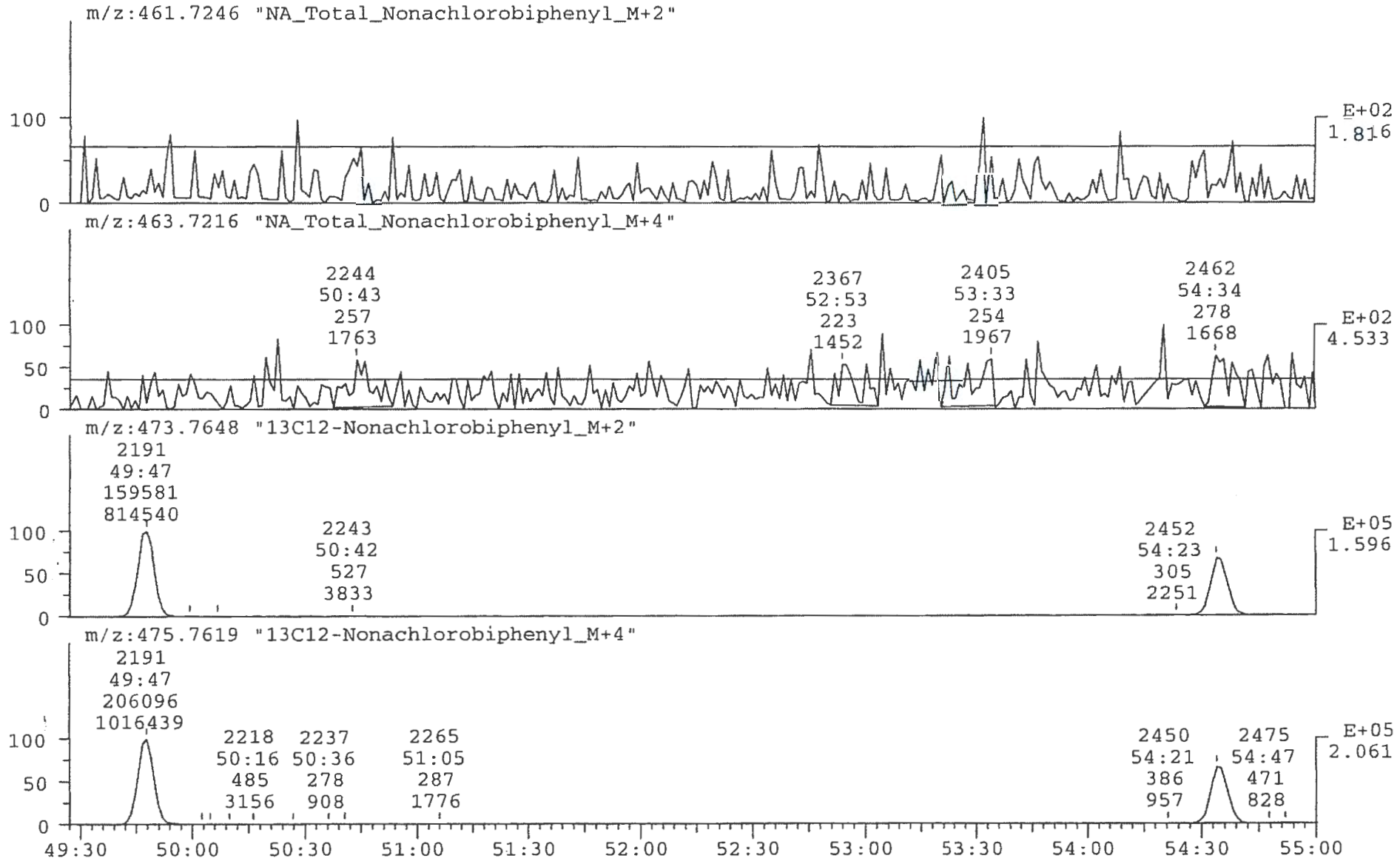


```
CHRO:  a07030731                                07-Mar-07   Elapse:  52:38      2353
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   2319 > 2388           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



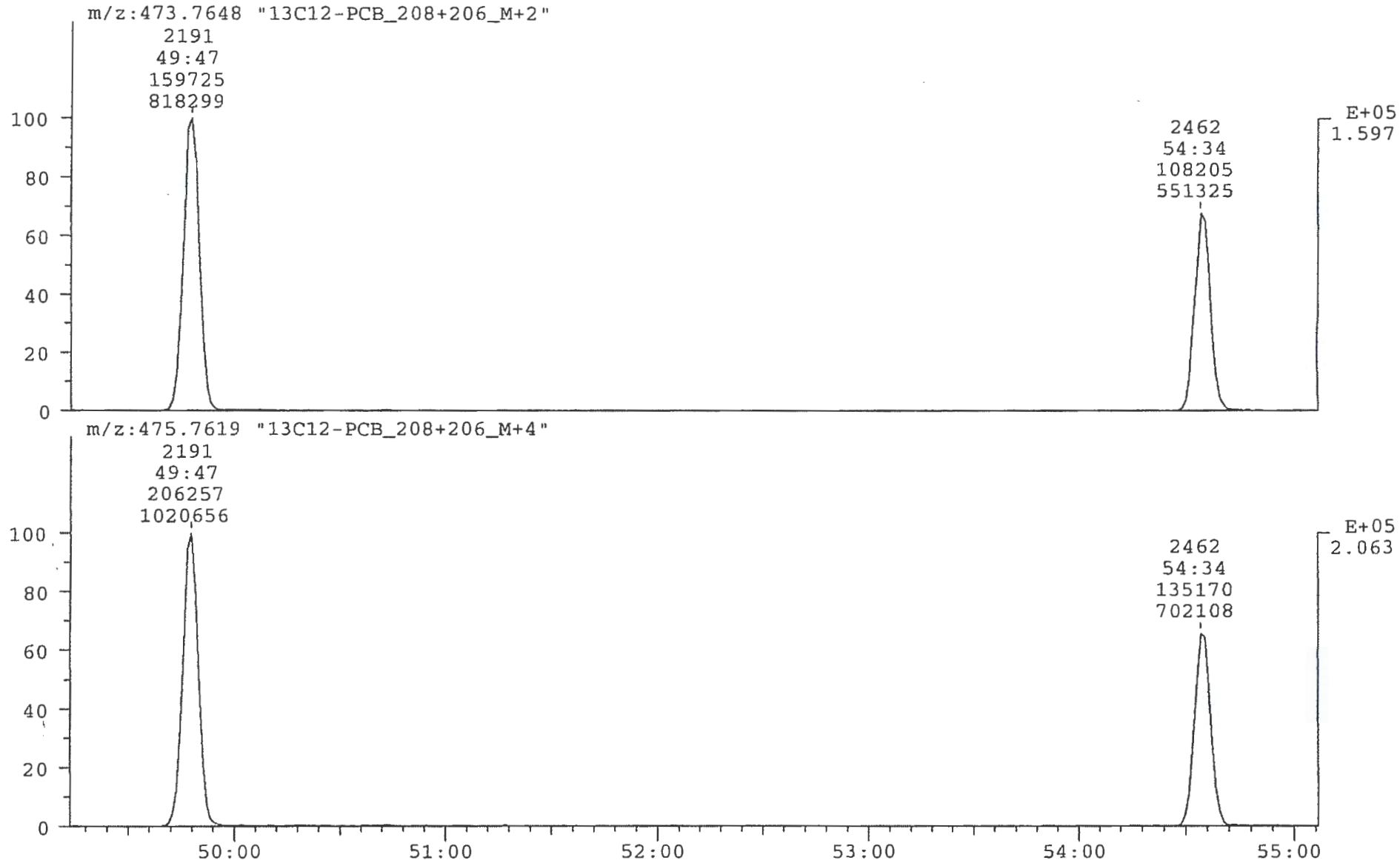
2246

```
CHRO:  a07030731                                07-Mar-07   Elapse:  52:13      2329
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   2171 > 2487           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

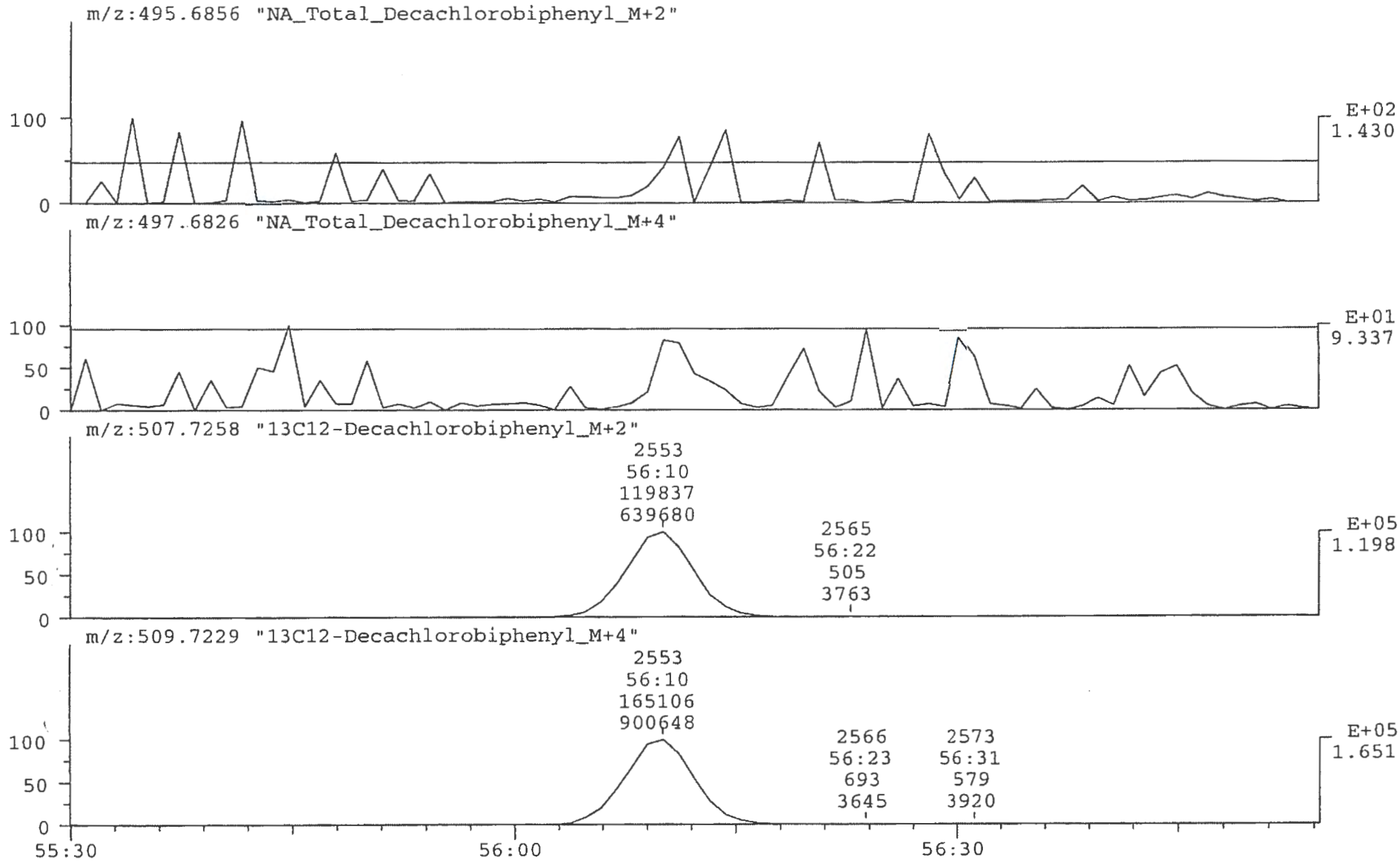


2247

```
CHRO:  a07030731                                07-Mar-07  Elapse:  52:12      2328
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  19:07:06   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   2163 > 2493         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030731 07-Mar-07 Elapse: 56:12 2555
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 19:07:06 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2515 > 2595 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



2249

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: a07030731
Study: 1668 RT Mix3/Run1
Sample: WO=2990:75Mix3 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 5
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 3 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.0000	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	253.0000
FVINLET	254.0000	FVSRC	825.0000	FWIN	0.7000
GCTC	200.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	0.7647	HVANAL	1320.0000
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	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2607.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7500	TCURR	0.7031
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 07-Mar-07 19:07:06.0

Autosampler has injected sample from vial 5
MID Time Window 1: Resolution is 8227
MID Time Window 2: Resolution is 7911
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 10657
Analysis stopped at: 07-Mar-07 20:04:08.7 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030732.	Prep Date		SDG No	
Analysis ID	96246	Prep Exp Date		Date Received	
Analysis Date	03/08/07 00:15	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	203	323	81	129	0.63 *	/	
	13C12-PCB 1	12:12	00:00	0	2287212	728164	989743	311883	3.14	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2295207	707915	804128	243288	3.24	ABV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	273	563	109	225	0.48 *	/	
	PCB 13 (BZ)	20:21	00:00	0	844006	541580	216432	136833	1.56	AVV/ABV	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	363	218	145	87	1.67	/	
	13C12-PCB 4	14:42	00:00	0	967592	603329	321247	200463	1.60	AVV/ABV	
	13C12-PCB 9	16:40	00:00	0	1657578	1021463	508338	319284	1.62	AVV/ABV	
	13C12-PCB 8	17:33	00:00	0	1704138	1048476	489884	308968	1.63	AVV/AVV	
	13C12-PCB 15	20:41	00:00	0	1663754	1035930	424901	265571	1.61	ABV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	153	158	61	63	0.97	/	
	PCB 17 (BZ)	20:10	00:00	0	374481	341098	100232	91677	1.10	ABV/ABV	
	PCB 29 (BZ)	22:51	00:00	0	805060	775455	191072	187310	1.04	ABV/ABV	
	PCB 20 (BZ)	23:48	00:00	0	743041	715551	181102	172837	1.04	ABV/ABV	D
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	600	283	240	113	2.12 *	/	
	13C12-PCB 19	17:54	00:00	0	583562	528205	167694	153418	1.10	ABV/AVV	
	13C12-PCB 32	21:09	00:00	0	1065350	1000862	268680	249777	1.06	ABV/ABV	
	13C12-PCB 31	23:25	00:00	0	1605874	1533413	378474	364194	1.05	AVV/ABV	
	13C12-PCB 28	23:42	00:00	0	1491337	1414301	357789	339798	1.05	AVV/AVV	
	13C12-PCB 37	27:47	00:00	0	1427738	1317013	308750	283566	1.08	AVV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	238	190	95	76	1.25 *	/	
	PCB 46 (BZ)	24:15	00:00	0	648936	832284	151350	192867	0.78	ABV/ABV	D
	PCB 65 (BZ)	26:33	00:00	0	1043620	1337609	240896	305495	0.78	ABV/ABV	
	PCB 59 (BZ)	26:55	00:00	0	1059188	1348097	241314	310030	0.79	AVV/AVV	M
	PCB 40 (BZ)	27:41	00:00	0	565131	732316	127400	167534	0.77	ABB/ABB	DM
	PCB 67 (BZ)	29:43	00:00	0	1189024	1536425	258492	338105	0.77	ABV/ABV	D
	PCB 76 (BZ)	30:22	00:00	0	1084357	1369499	233832	292303	0.79	ABV/AVV	M
	PCB 80 (BZ)	31:53	00:00	0	1245388	1565679	268077	339864	0.80	ABV/ABV	D
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	165	138	66	55	1.20 *	/	
	13C12-PCB 54	21:02	00:00	0	518277	636085	132593	158056	0.81	ABV/ABV	
	13C12-PCB 52	25:33	00:00	0	776157	952126	188943	226025	0.82	ABV/ABV	
	13C12-PCB 79	33:28	00:00	0	1099175	1377585	239511	303048	0.80	ABV/ABV	
	13C12-PCB 81	34:30	00:00	0	982537	1209878	200597	257226	0.81	ABV/ABV	D
	13C12-PCB 77	35:06	00:00	0	1013088	1269591	214312	260061	0.80	ABV/ABV	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030732.	Prep Date		SDG No	
Analysis ID	96246	Prep Exp Date		Date Received	
Analysis Date	03/08/07 00:15	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	188	158	75	63	1.19 *	/	
	PCB 93 (BZ)	29:43	00:00	0	786961	489833	177683	110875	1.61	AVV/ABV	D
	PCB 84 (BZ)	30:39	00:00	0	762604	479061	162072	104378	1.59	ABV/ABV	D
	PCB 101 (BZ)	32:23	00:00	0	1020732	639923	219860	136096	1.60	ABV/ABV	DM
	PCB 112 (BZ)	33:06	00:00	0	1240566	774562	266380	165498	1.60	AVV/AVV	D
	PCB 86 (BZ)	33:30	00:00	0	833069	515469	175426	108064	1.62	AVV/AVV	DM
	PCB 116 (BZ)	34:10	00:00	0	1173449	738165	252092	156442	1.59	AVV/AVV	DM
	PCB 107 (BZ)/109 (IUPAC	36:56	00:00	0	1570970	1012184	324718	205523	1.55	AVV/AVV	D
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	163	138	65	55	1.18 *	/	
	13C12-PCB 104	26:29	00:00	0	1151016	705782	263394	164419	1.63	ABV/ABV	D
	13C12-PCB 95	29:31	00:00	0	848882	538166	181818	116951	1.58	AVV/AVV	D
	13C12-PCB 101	32:22	00:00	0	920064	569694	205744	125184	1.62	ABV/ABV	
	13C12-PCB 111	35:00	00:00	0	1147302	723640	245847	155003	1.59	AVV/ABV	
	13C12-PCB 123	37:01	00:00	0	1397820	860762	293335	181467	1.62	ABV/ABV	D
	13C12-PCB 118	37:20	00:00	0	1450389	910687	301695	188326	1.59	AVV/AVV	D
	13C12-PCB 114	37:53	00:00	0	1416363	879125	291550	183564	1.61	AVV/AVV	D
	13C12-PCB 105	38:35	00:00	0	1349661	860540	281831	179501	1.57	ABV/ABV	D
	13C12-PCB 127	39:58	00:00	0	1526275	963961	312777	206129	1.58	ABV/AVV	
	13C12-PCB 126	41:39	00:00	0	1468769	930991	296727	189552	1.58	ABV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	288	270	115	108	1.06	/	
	PCB 154 (BZ)	35:27	00:00	0	836954	657849	173976	137415	1.27	ABV/ABV	D
	PCB 147 (BZ)	36:12	00:00	0	994072	794003	190915	154068	1.25	AVV/ABV	D
	PCB 140 (BZ)	36:49	00:00	0	905518	711854	195083	149440	1.27	AVV/AVV	DM
	PCB 146 (BZ)	38:34	00:00	0	951511	746114	207259	161452	1.28	ABV/ABV	D
	PCB 141 (BZ)	39:25	00:00	0	883201	696987	187989	152247	1.27	AVV/ABV	D
	PCB 164 (BZ)	40:12	00:00	0	1204440	935923	253103	196180	1.29	ABV/AVV	
	PCB 158 (BZ)	40:51	00:00	0	1275484	1011888	263702	213124	1.26	ABV/ABV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	148	228	59	91	0.65 *	/	
	13C12-PCB 155	32:03	00:00	0	941645	744720	205100	157451	1.26	ABV/ABV	D
	13C12-PCB 153	39:09	00:00	0	977001	770835	205957	162000	1.27	ABV/ABV	D
	13C12-PCB 138	40:28	00:00	0	983367	766889	206306	160367	1.28	ABV/ABV	
	13C12-PCB 167	43:24	00:00	0	1208157	942999	248588	188194	1.28	AVV/AVV	
	13C12-PCB 156	44:35	00:00	0	1084620	879306	240188	187891	1.23	ABV/ABV	D
	13C12-PCB 157	44:39	00:00	0	1261124	978194	266099	209930	1.29	AVB/AVB	M
	13C12-PCB 169	47:50	00:00	0	1173354	919716	236580	182633	1.28	ABV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	198	175	79	70	1.13	/	
	PCB 182 (BZ)	41:58	00:00	0	765240	736214	153478	150244	1.04	AVV/AVV	D
	PCB 174 (BZ)	42:42	00:00	0	707915	699432	142304	141375	1.01	AVV/AVV	D
	PCB 173 (BZ)	43:44	00:00	0	643177	605736	130123	119247	1.06	AVV/AVV	DM

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 ccmax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030732.	Prep Date		SDG No	
Analysis ID	d96246	Prep Exp Date		Date Received	
Analysis Date	03/08/07 00:15	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

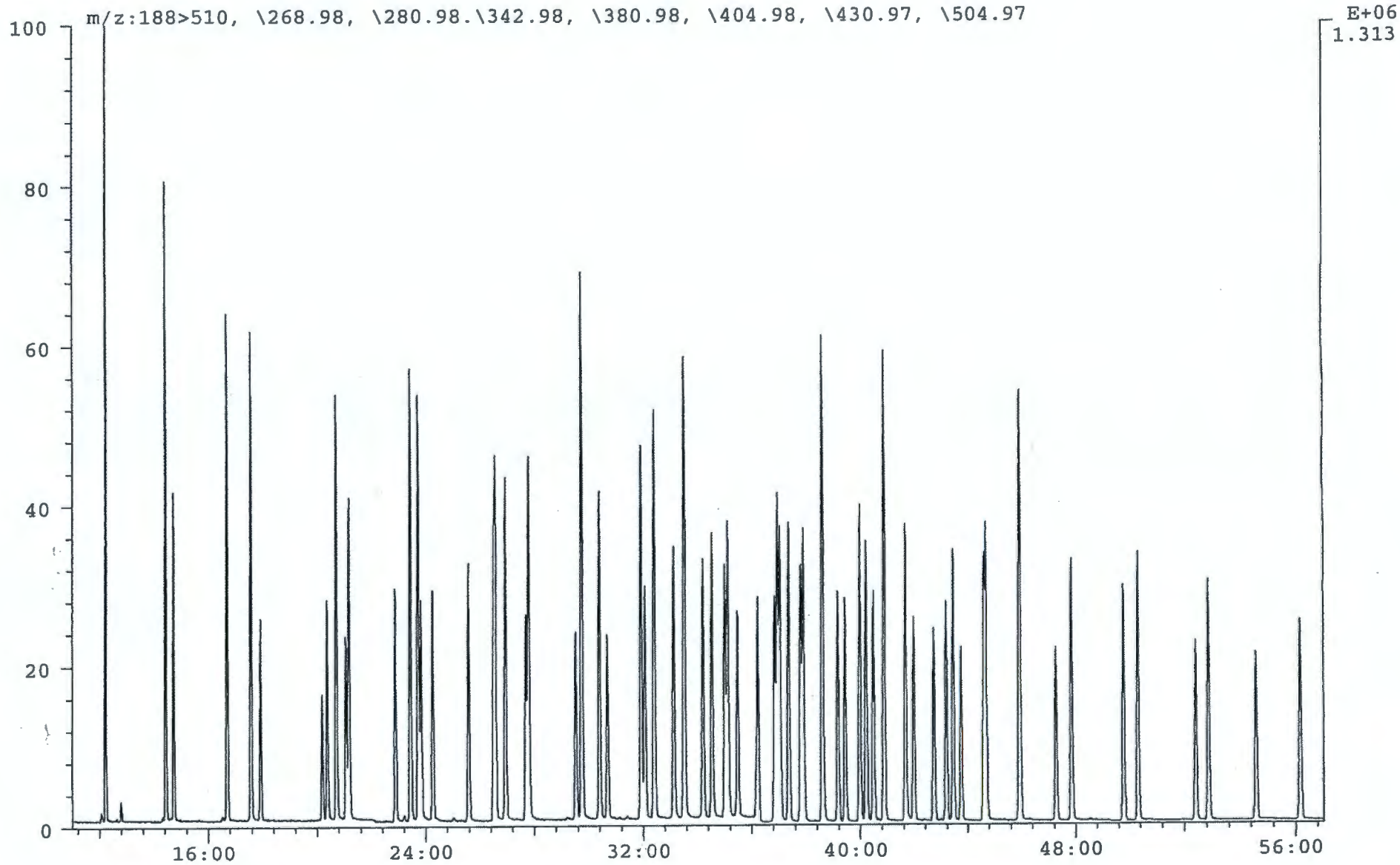
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	PCB 193 (BZ)	45:54	00:00	0	1030687	987215	216045	197617	1.04	ABV/ABV	D
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	178	138	71	55	1.29 *	/	
	13C12-PCB 188	37:46	00:00	0	1005382	943041	204337	194991	1.07	ABV/ABV	D
	13C12-PCB 178	40:51	00:00	0	640633	604759	137668	128871	1.06	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	854803	787004	172337	163130	1.09	ABV/ABV	
	13C12-PCB 170	47:15	00:00	0	681350	644165	135237	128998	1.06	AVV/ABV	
	13C12-PCB 189	50:19	00:00	0	1100264	1068513	224964	214923	1.03	AVV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	110	113	44	45	0.98	/	
	13C12-PCB 202	43:08	00:00	0	784746	841102	161857	170081	0.93	ABV/ABV	D
	13C12-PCB 194	52:23	00:00	0	661166	723392	133521	143240	0.91	ABV/ABB	
	13C12-PCB 205	52:51	00:00	0	913486	1004855	178938	199998	0.91	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	138	153	55	61	0.90 *	/	
	13C12-PCB 208	49:46	00:00	0	767487	970106	152651	193405	0.79	AVV/AVV	
	13C12-PCB 206	54:33	00:00	0	515827	660370	102957	132151	0.78	AVV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	150	95	60	38	1.58 *	/	
	13C12-PCB 209	56:08	00:00	0	605795	859348	108934	163769	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

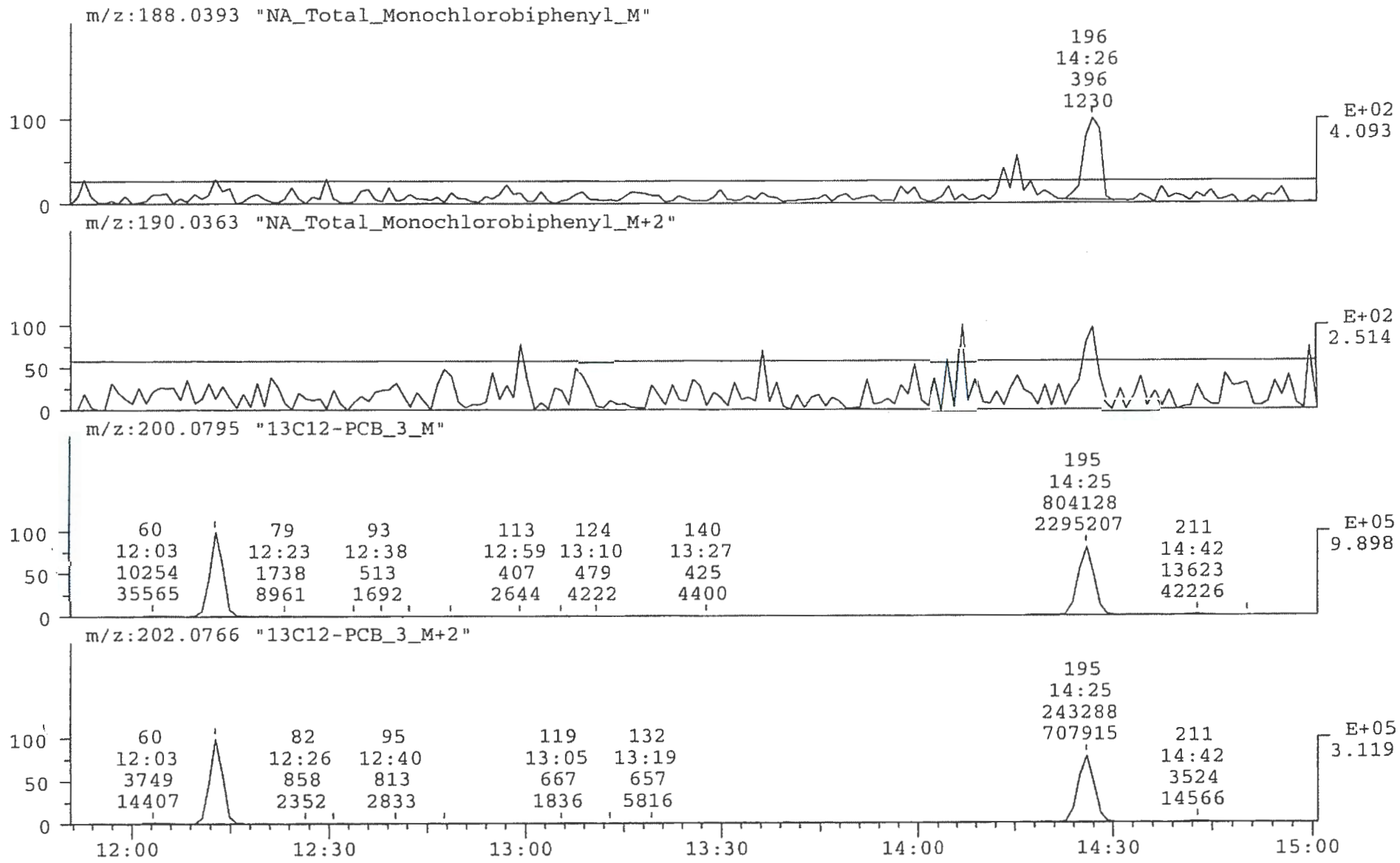
Inst 3-19-07
Calc DCG 3-19-07
QC BFW 3/19/07

CHRO: a07030732 08-Mar-07 Elapse: 56:12 2555
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



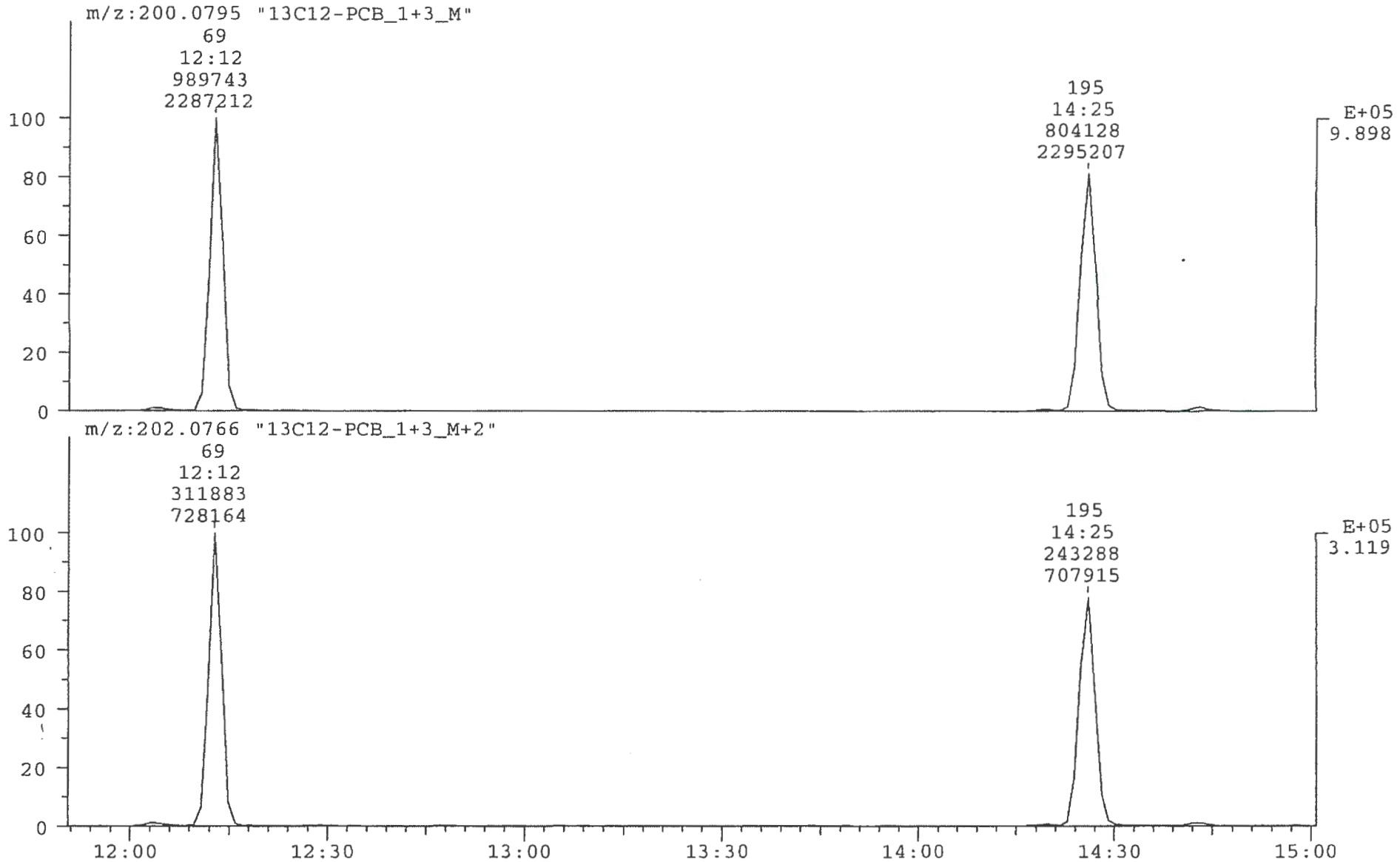
2257

```
CHRO:  a07030732                              08-Mar-07   Elapse:  13:25.6      138
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30    2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   48 > 228            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

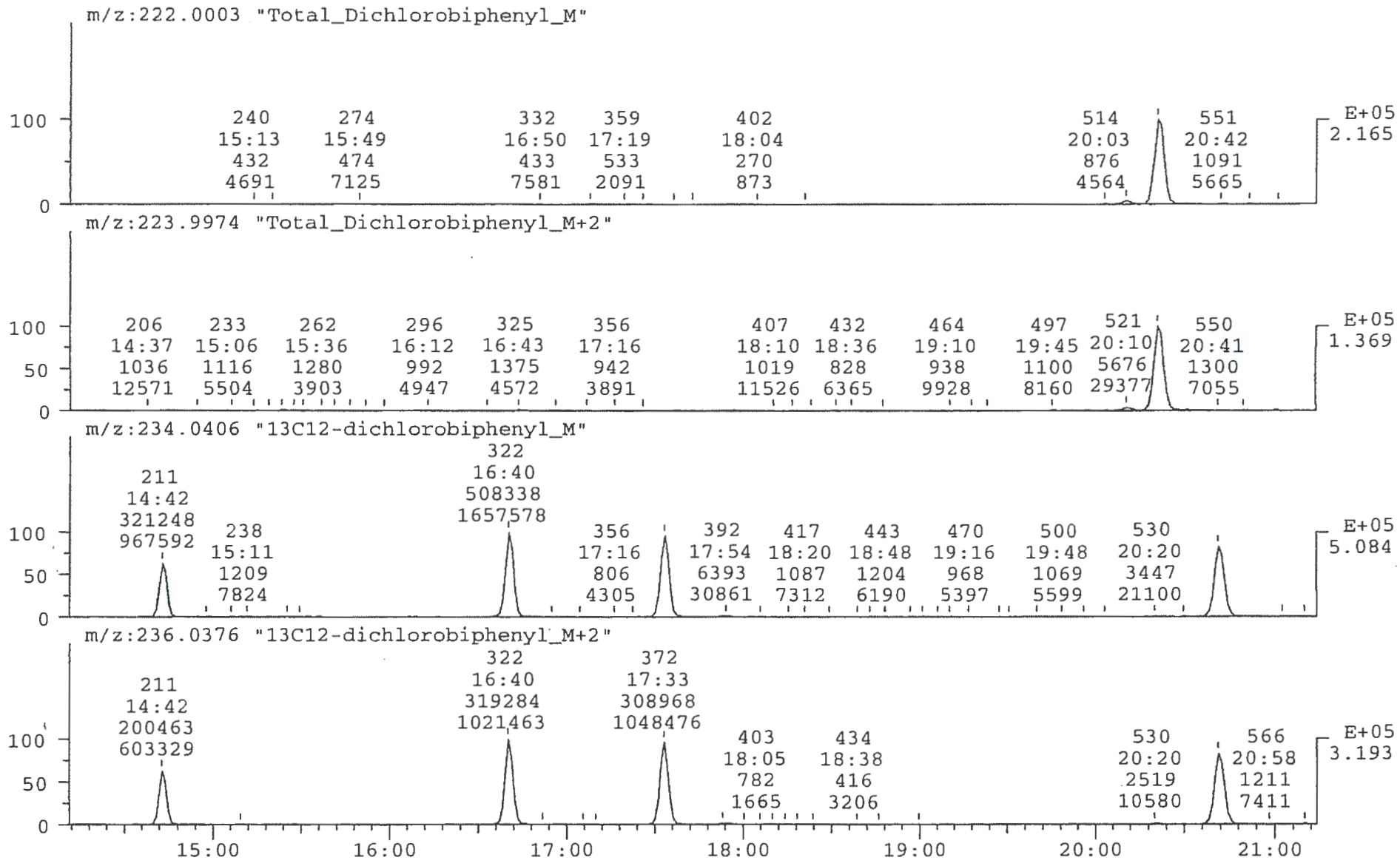


2258

```
CHRO:  a07030732                                08-Mar-07   Elapse:  13:25.6      138
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

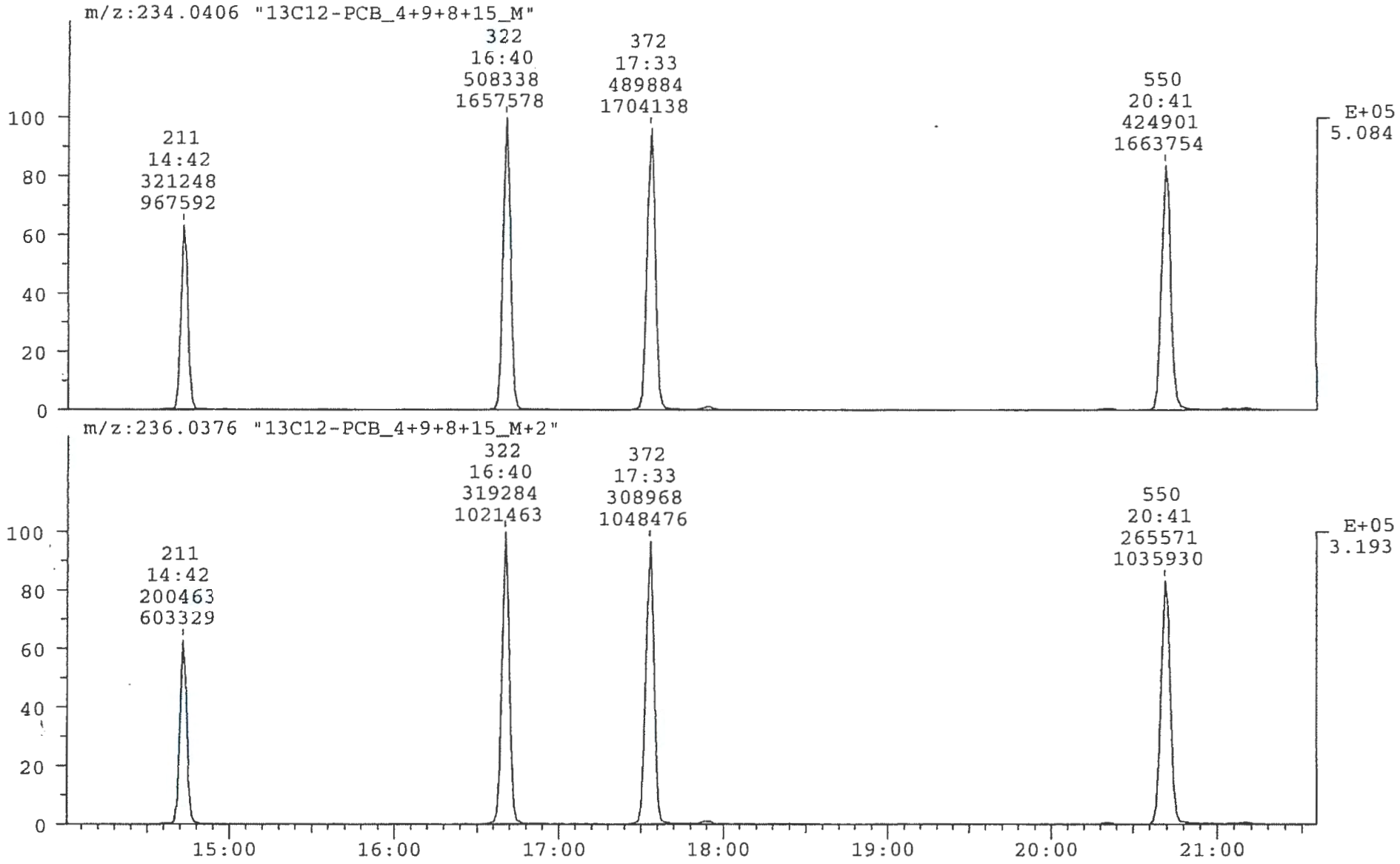


CHRO: a07030732 08-Mar-07 Elapse: 17:42.5 381
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 181 > 581 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

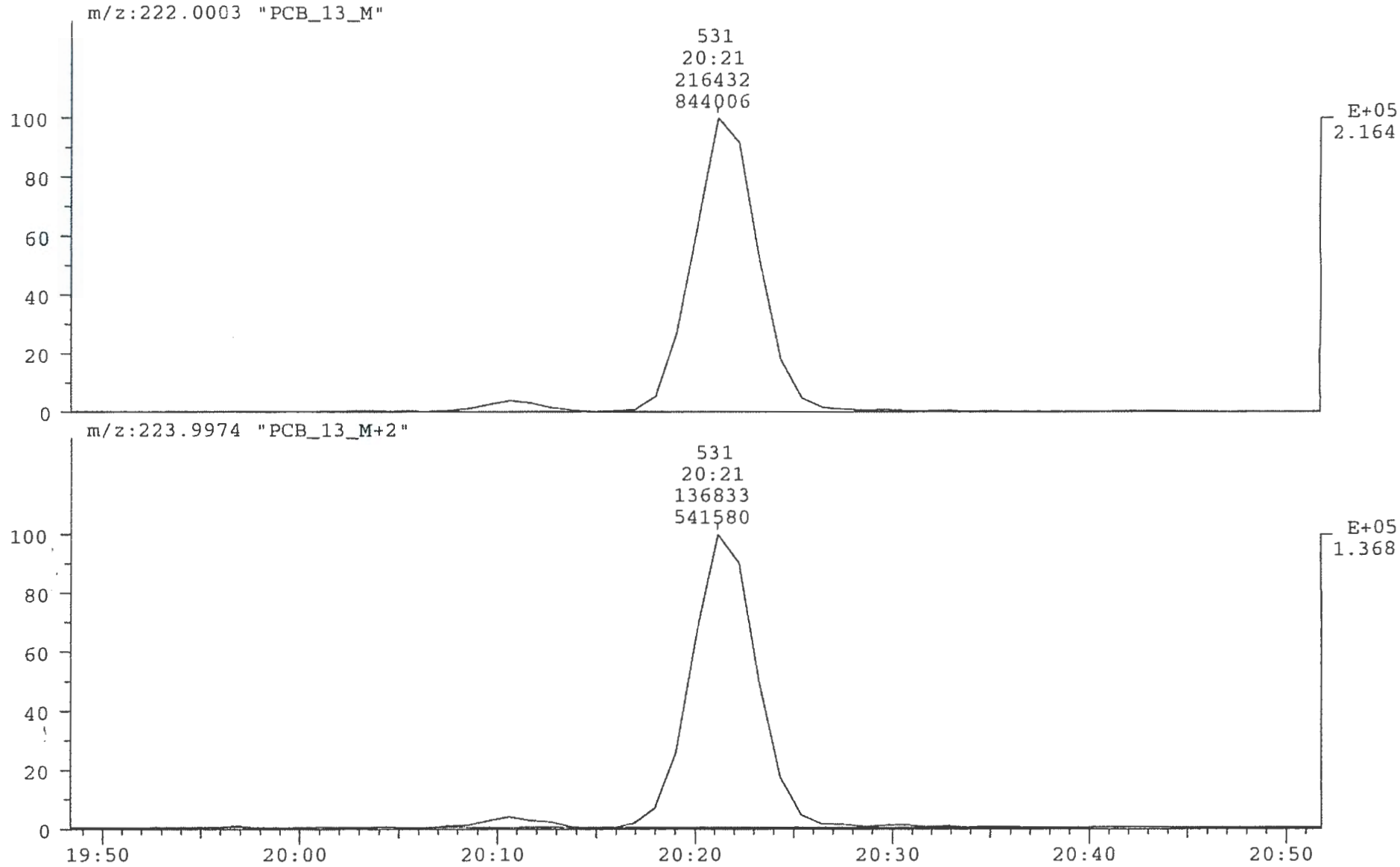


2260

```
CHRO:  a07030732                                08-Mar-07   Elapse:  17:42.5      381
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   171 > 601             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

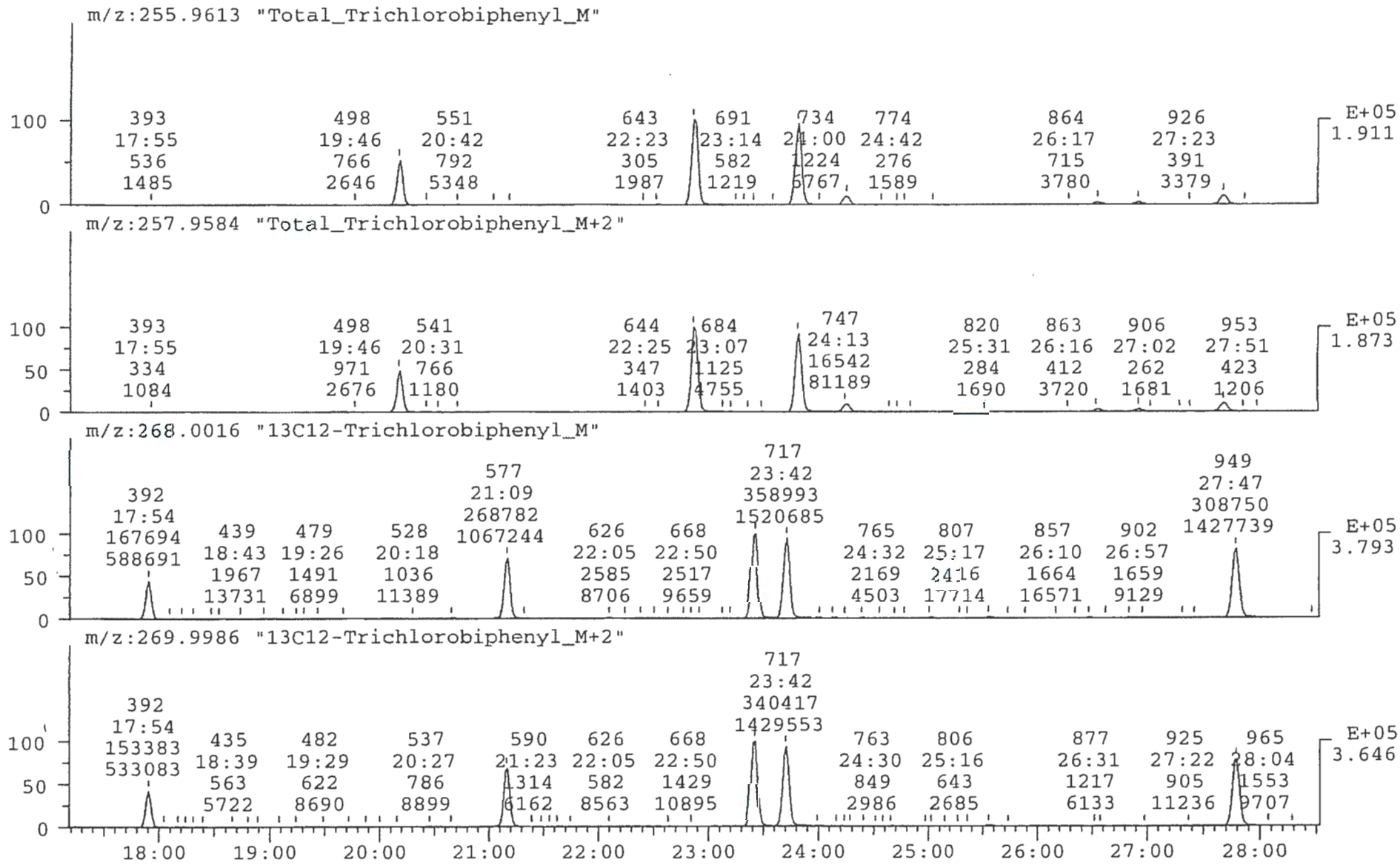


```
CHRO:  a07030732                              08-Mar-07   Elapse:  20:20.1      530
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   500 > 560           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

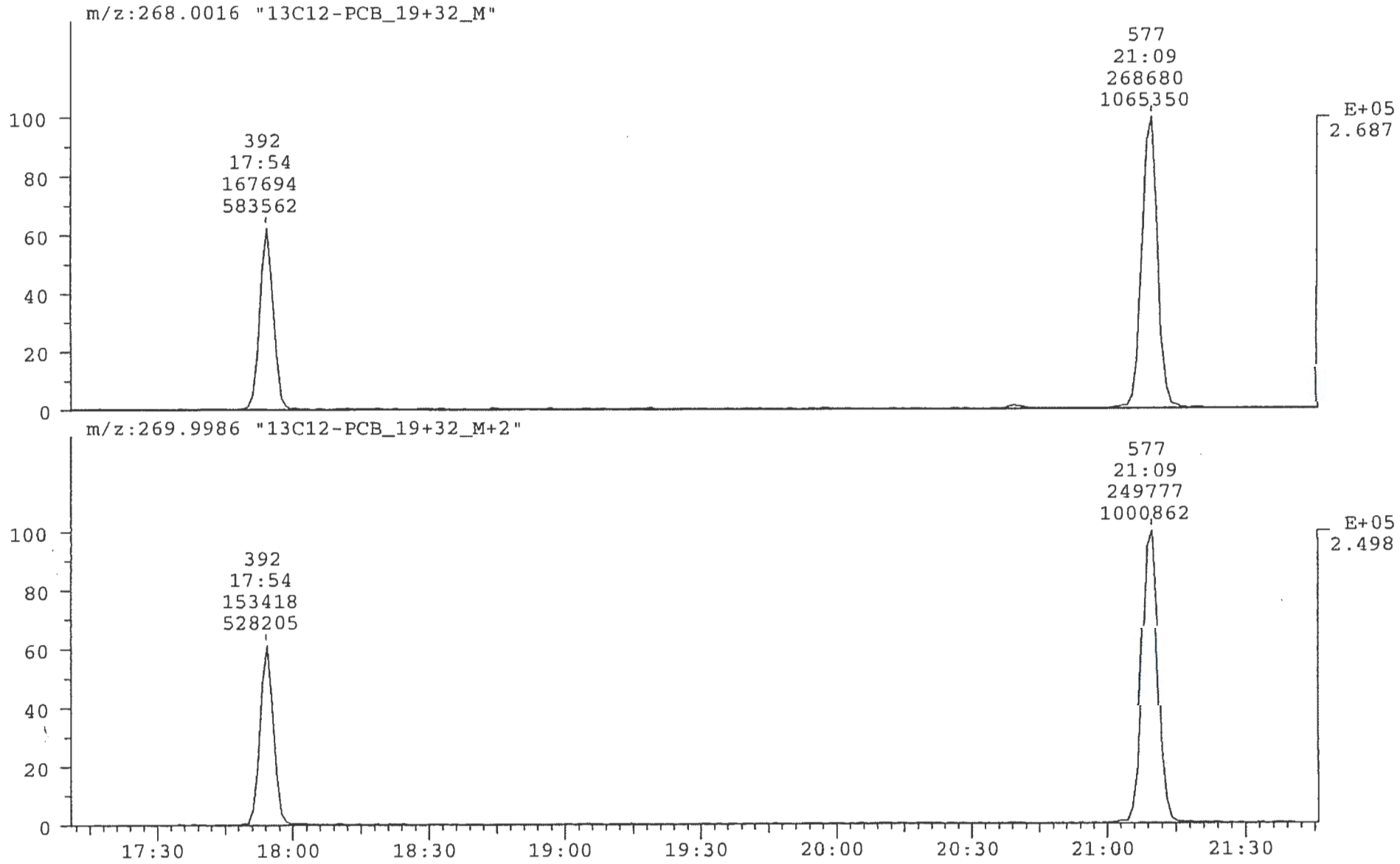


2262

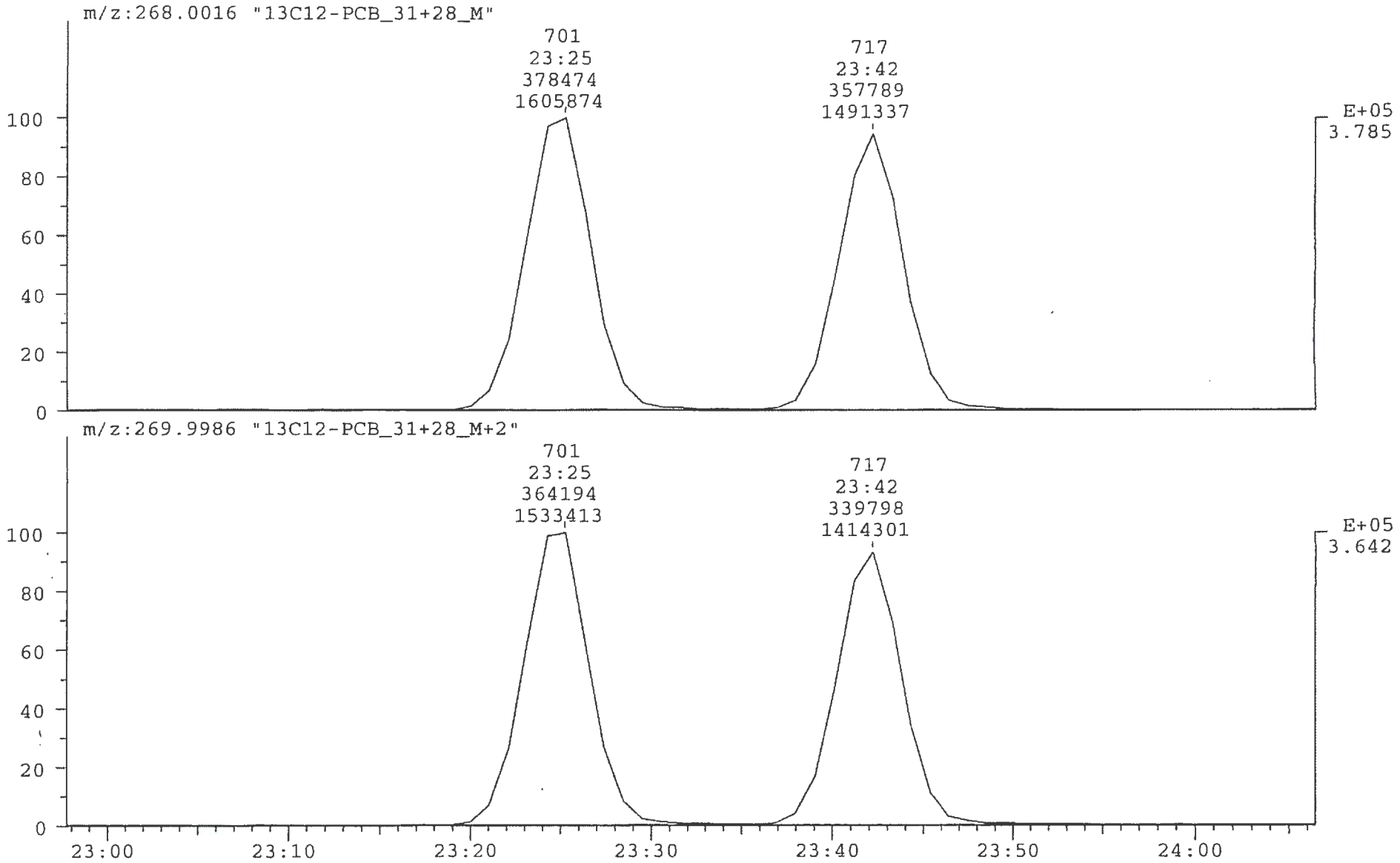
CHRO: a07030732 08-Mar-07 Elapse: 22:53.5 671
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



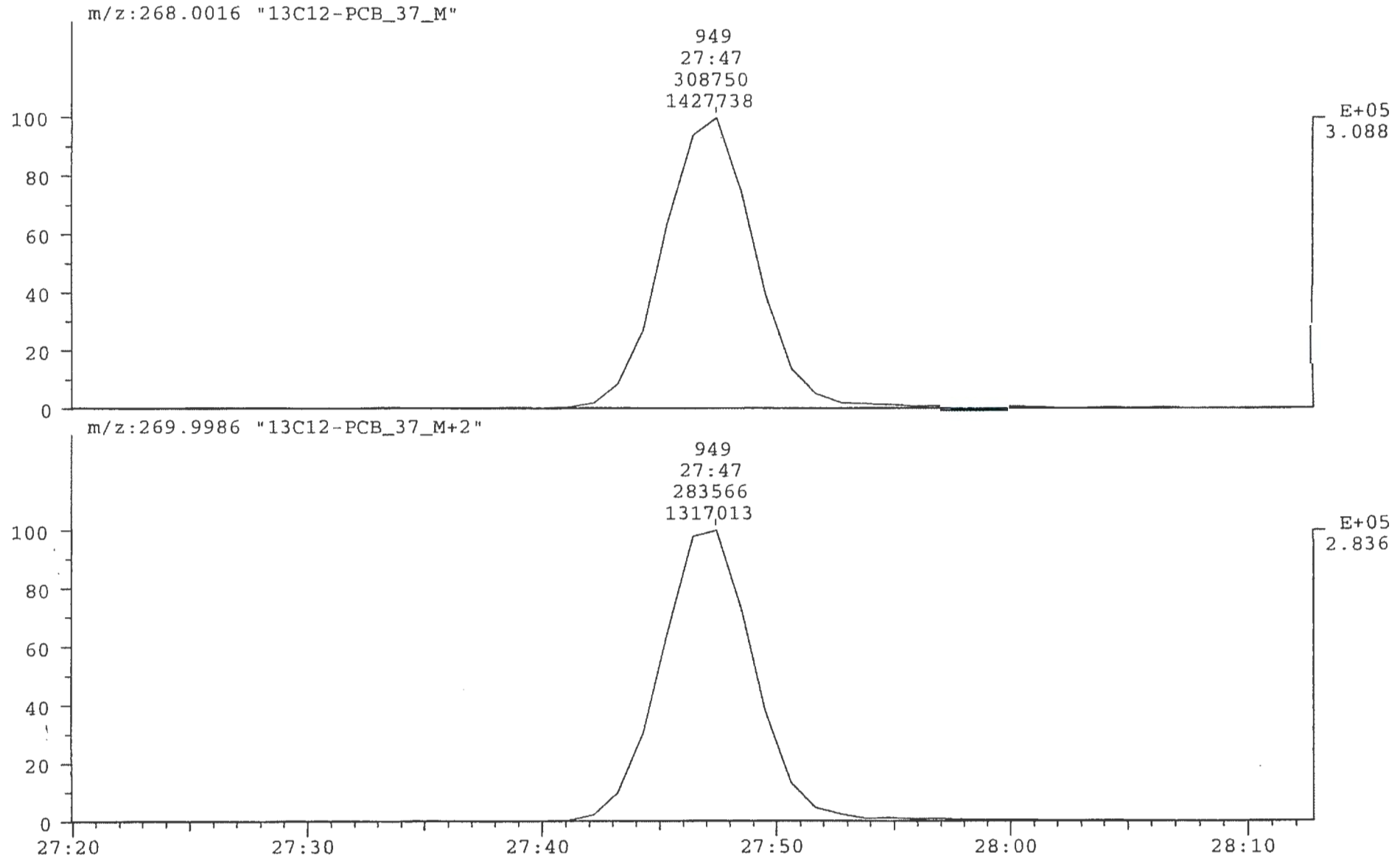
CHRO: a07030732 08-Mar-07 Elapse: 19:17.7 471
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 351 > 611 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



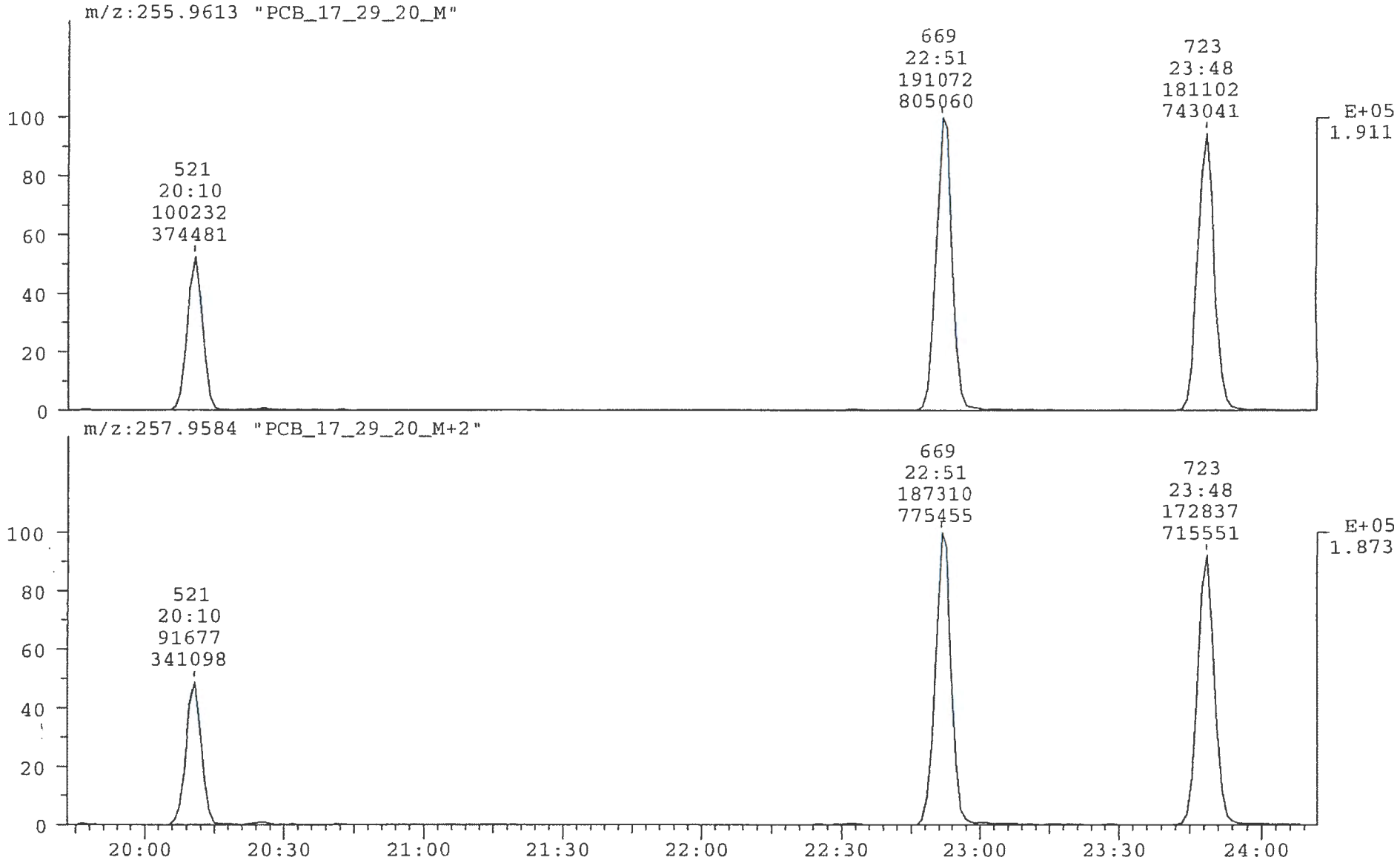
```
CHRO:  a07030732                              08-Mar-07   Elapse:  23:24.2      700
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   675 > 740           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



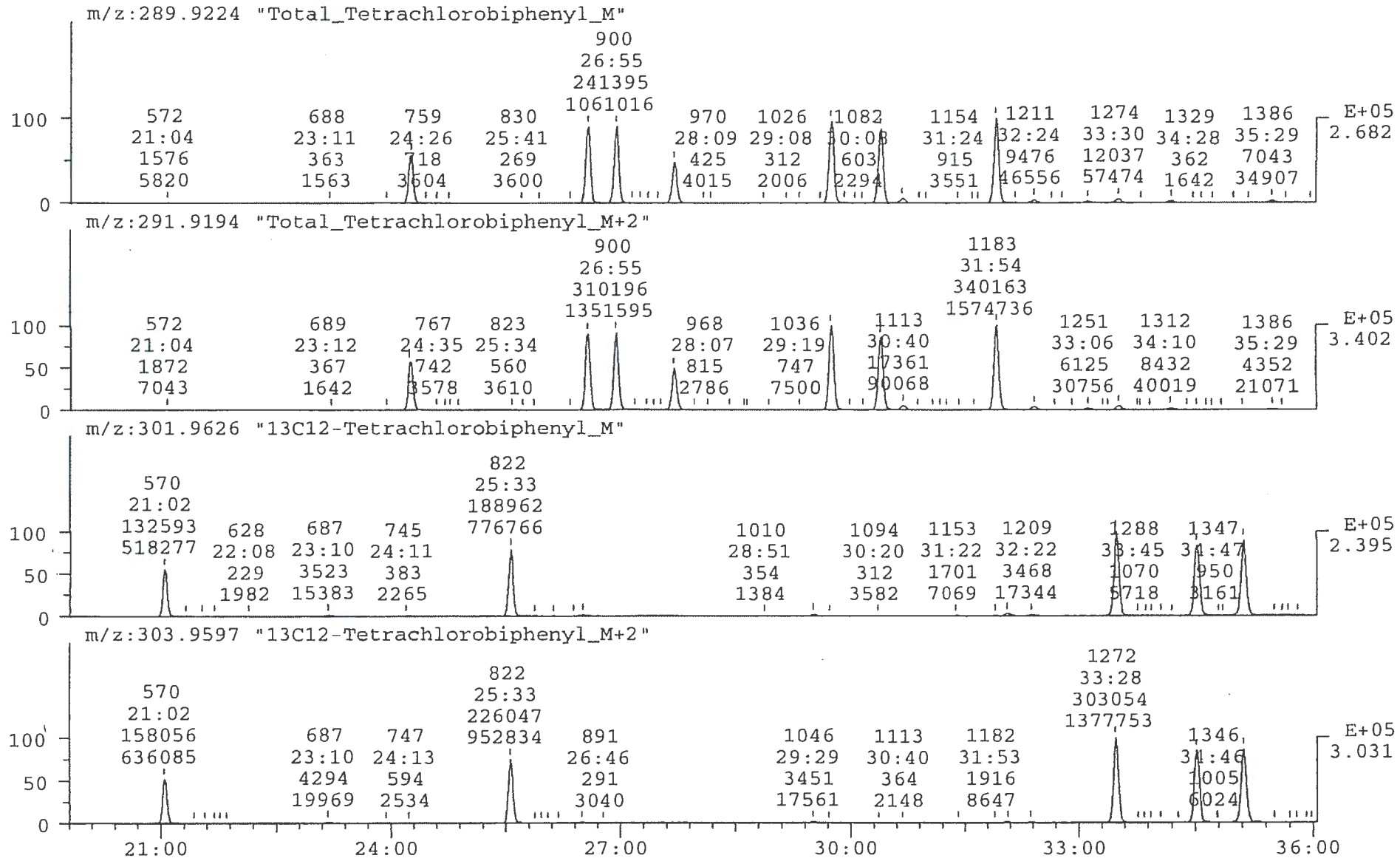
```
CHRO:  a07030732                              08-Mar-07   Elapse:  27:46.4      948
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30    2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC      Vial   5
Peak:  100.00  ppm      Label wndw:   923 > 973           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



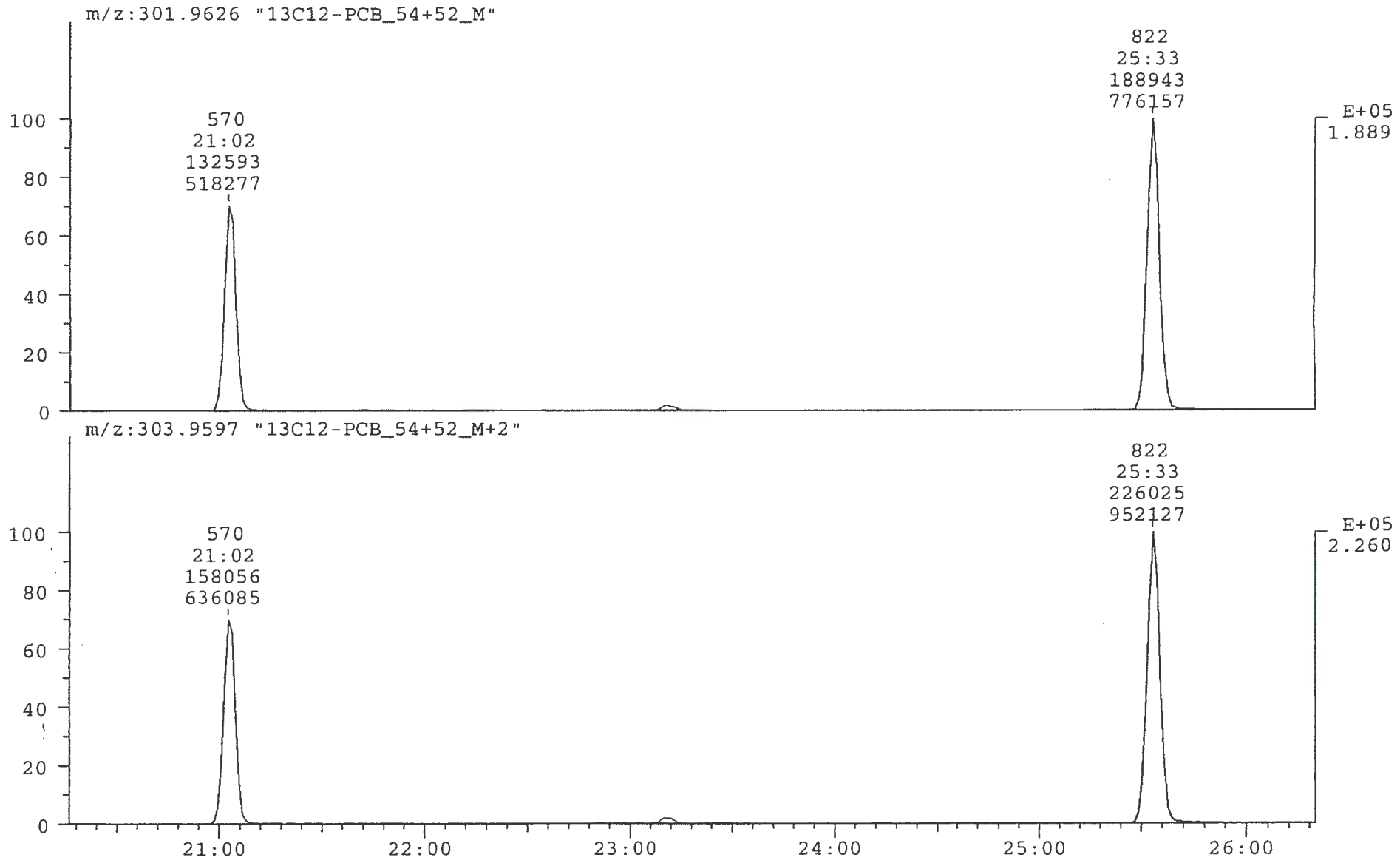
```
CHRO:  a07030732                                08-Mar-07   Elapse:  22:00.6      625
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   495 > 745             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



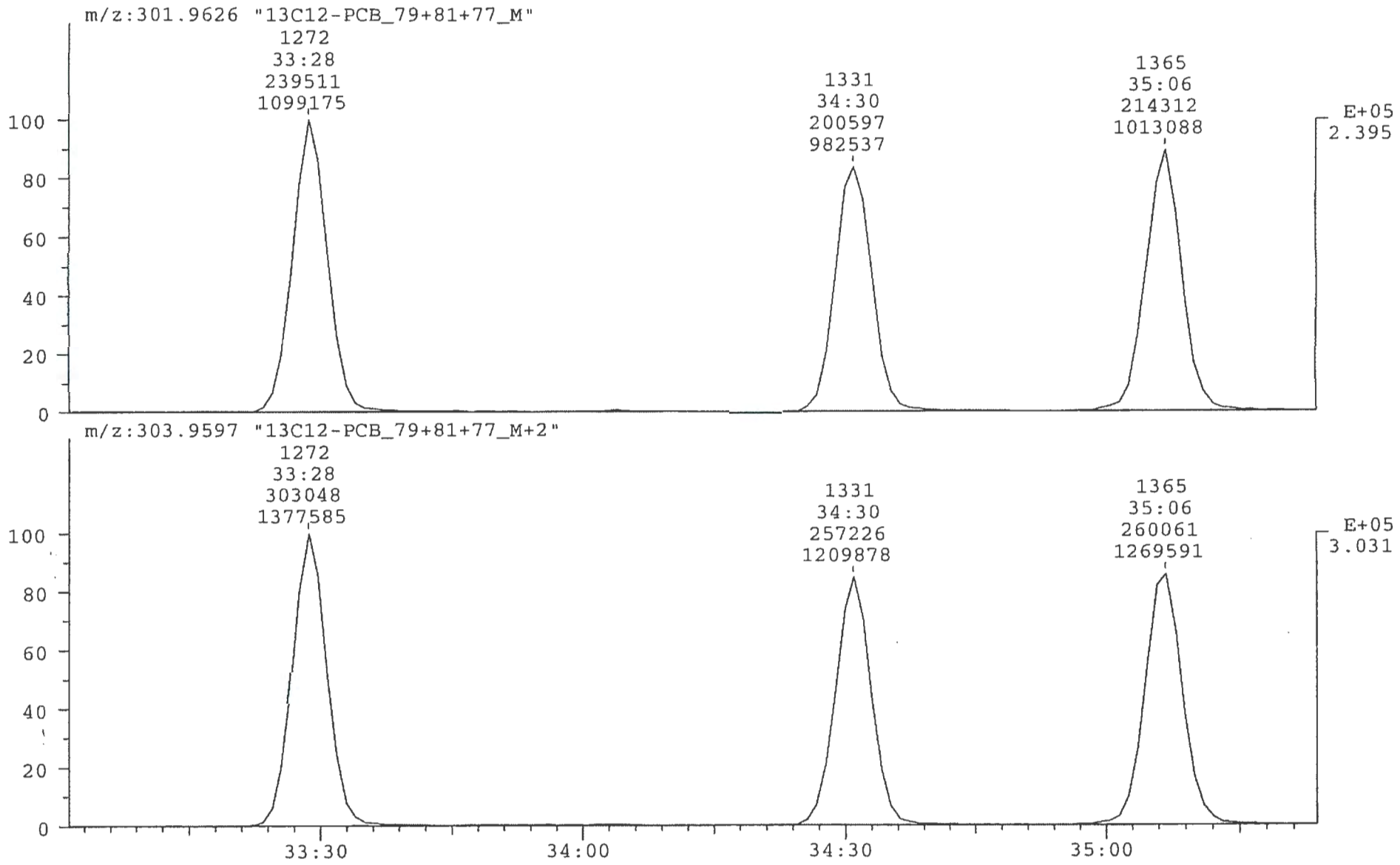
```
CHRO:  a07030732                                08-Mar-07   Elapse:  27:54.8      956
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   500 > 1418            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



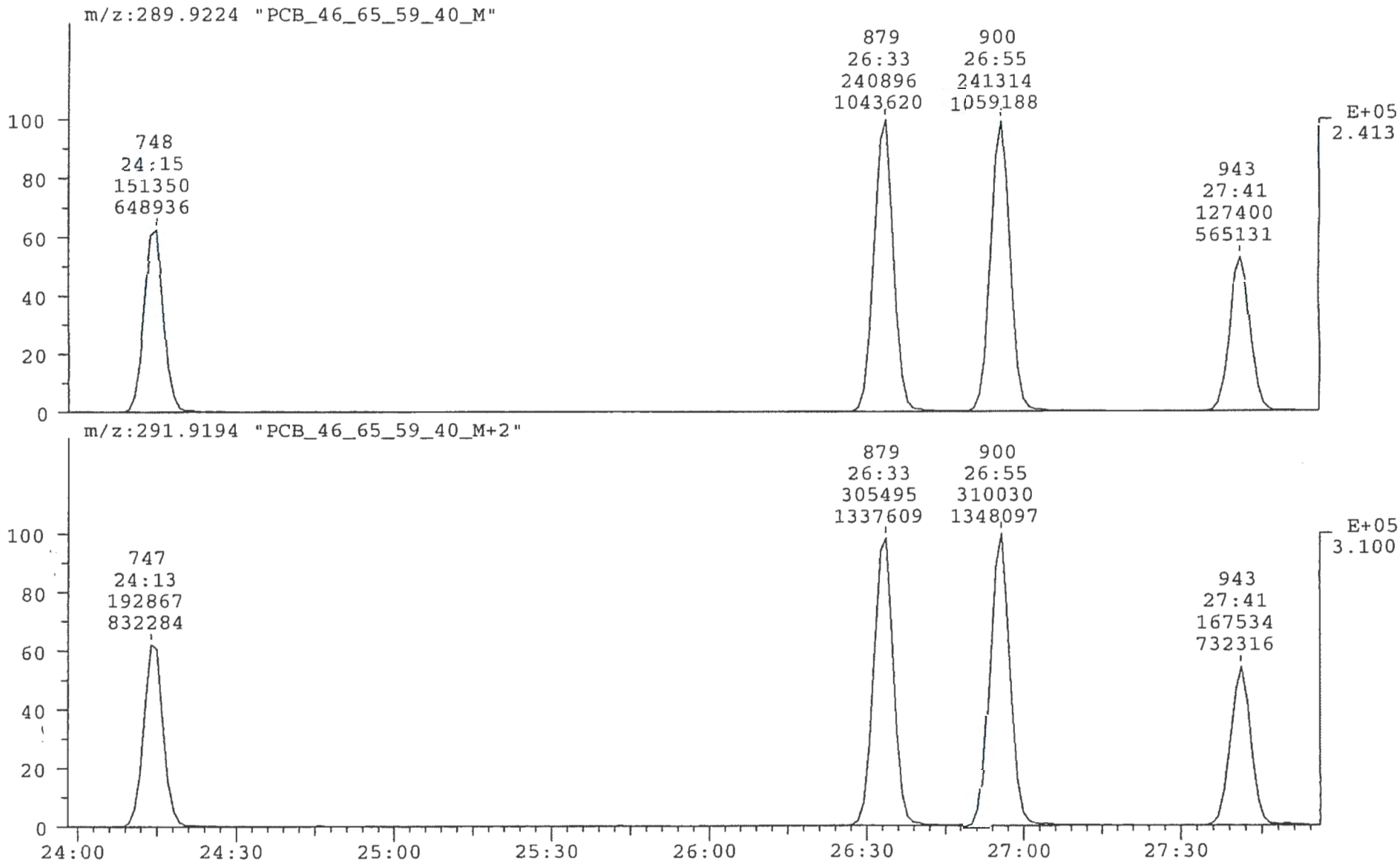
```
CHRO:  a07030732                                08-Mar-07   Elapse:  23:20.9      696
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   526 > 866             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



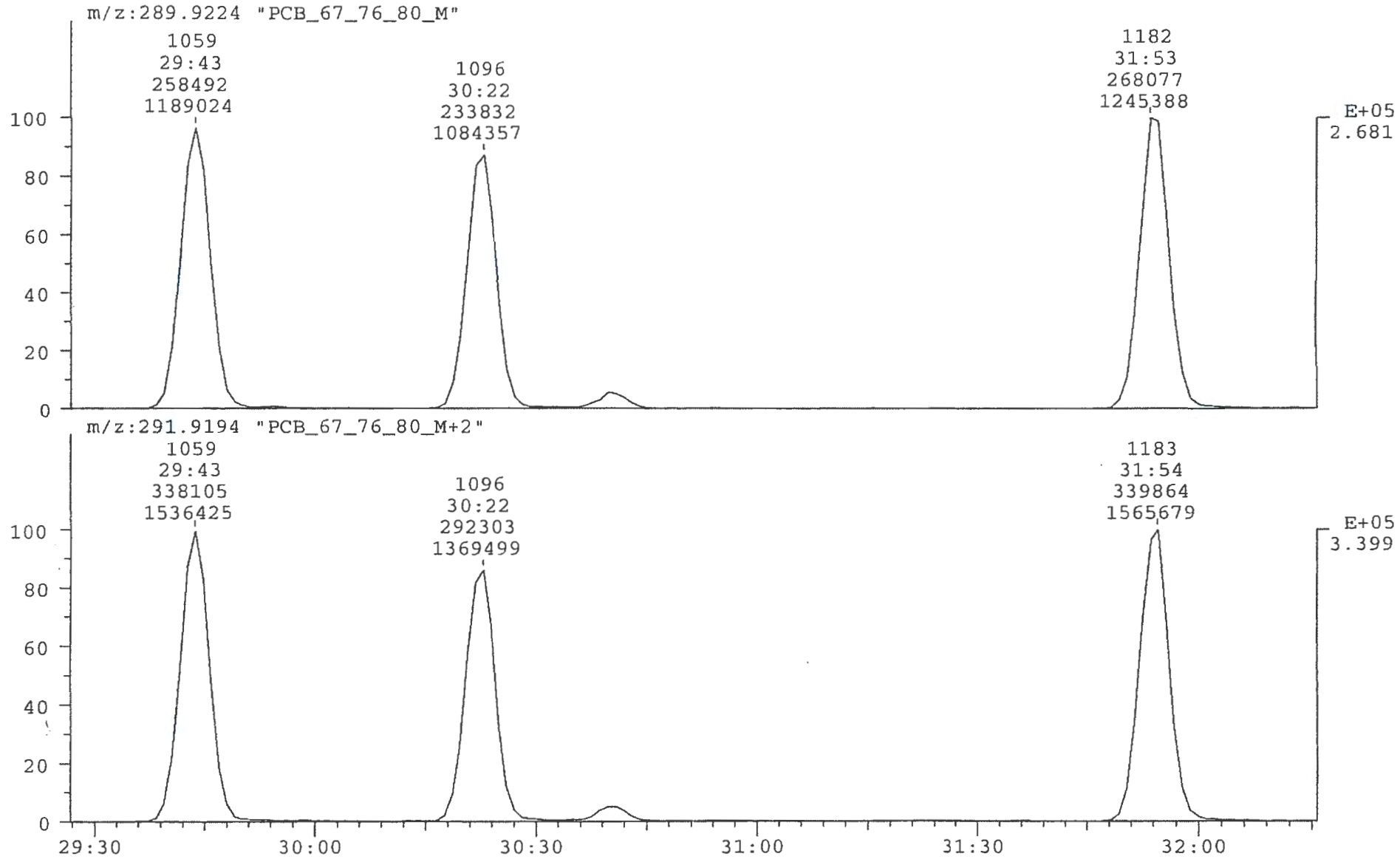
```
CHRO:  a07030732                                08-Mar-07   Elapse:  34:15      1316
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   1246 > 1381            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



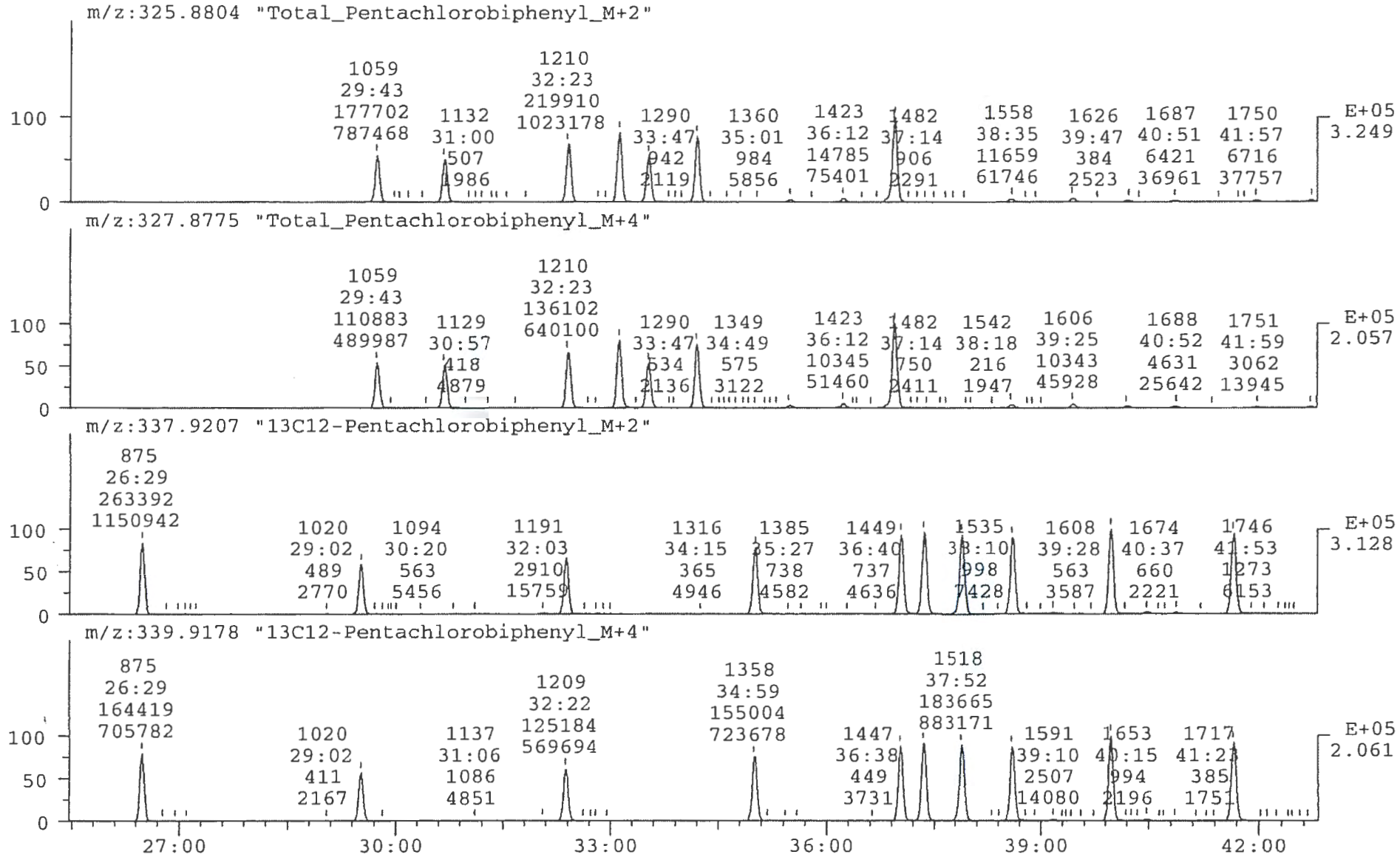
```
CHRO:  a07030732                                08-Mar-07   Elapse:  25:59.6      847
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   732 > 957             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



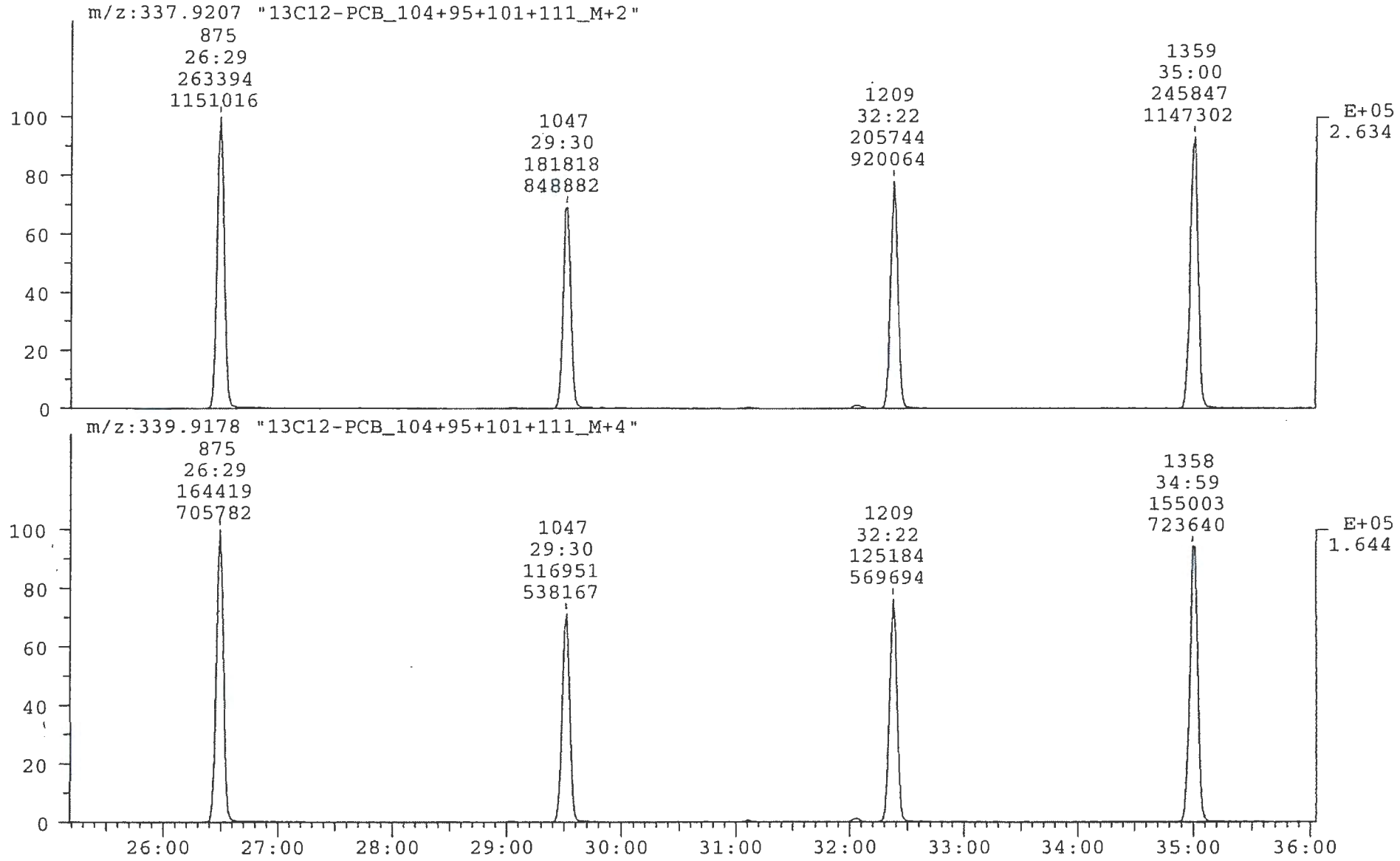
```
CHRO:  a07030732                                08-Mar-07   Elapse:  30:51      1123
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1043 > 1203           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



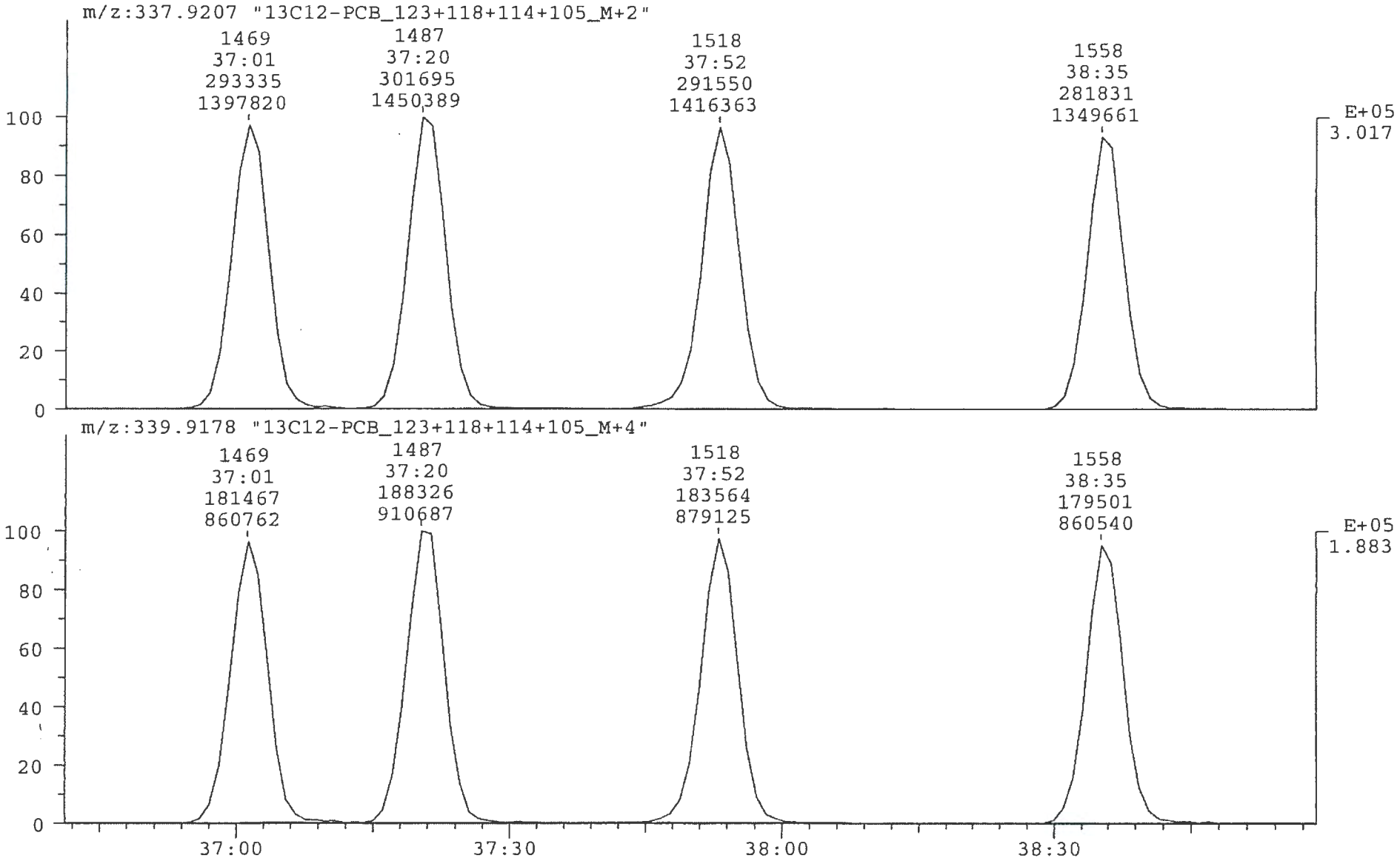
CHRO: a07030732 08-Mar-07 Elapse: 34:07 1309
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 817 > 1797 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



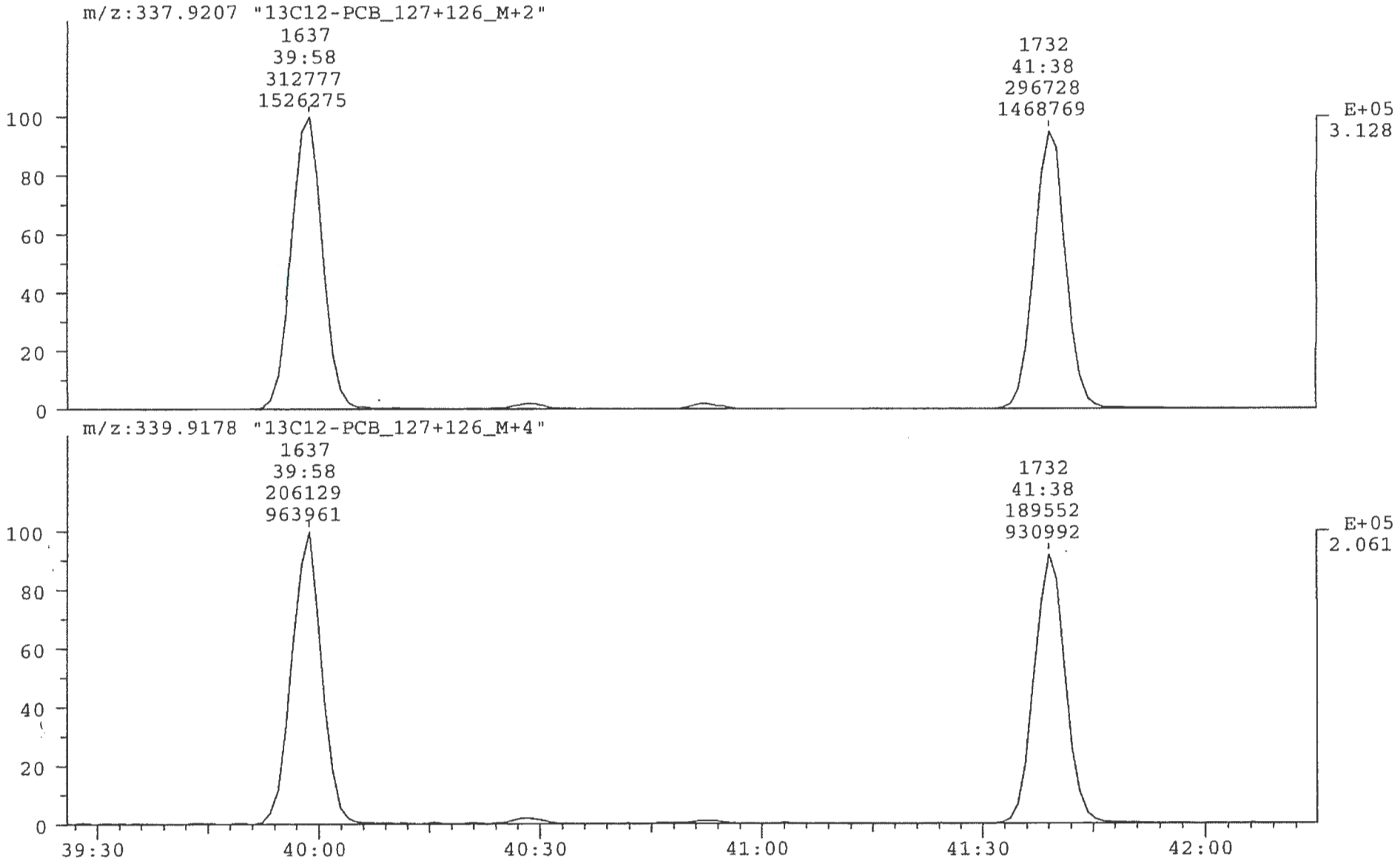
CHRO: a07030732 08-Mar-07 Elapse: 30:37 1110
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 801 > 1418 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



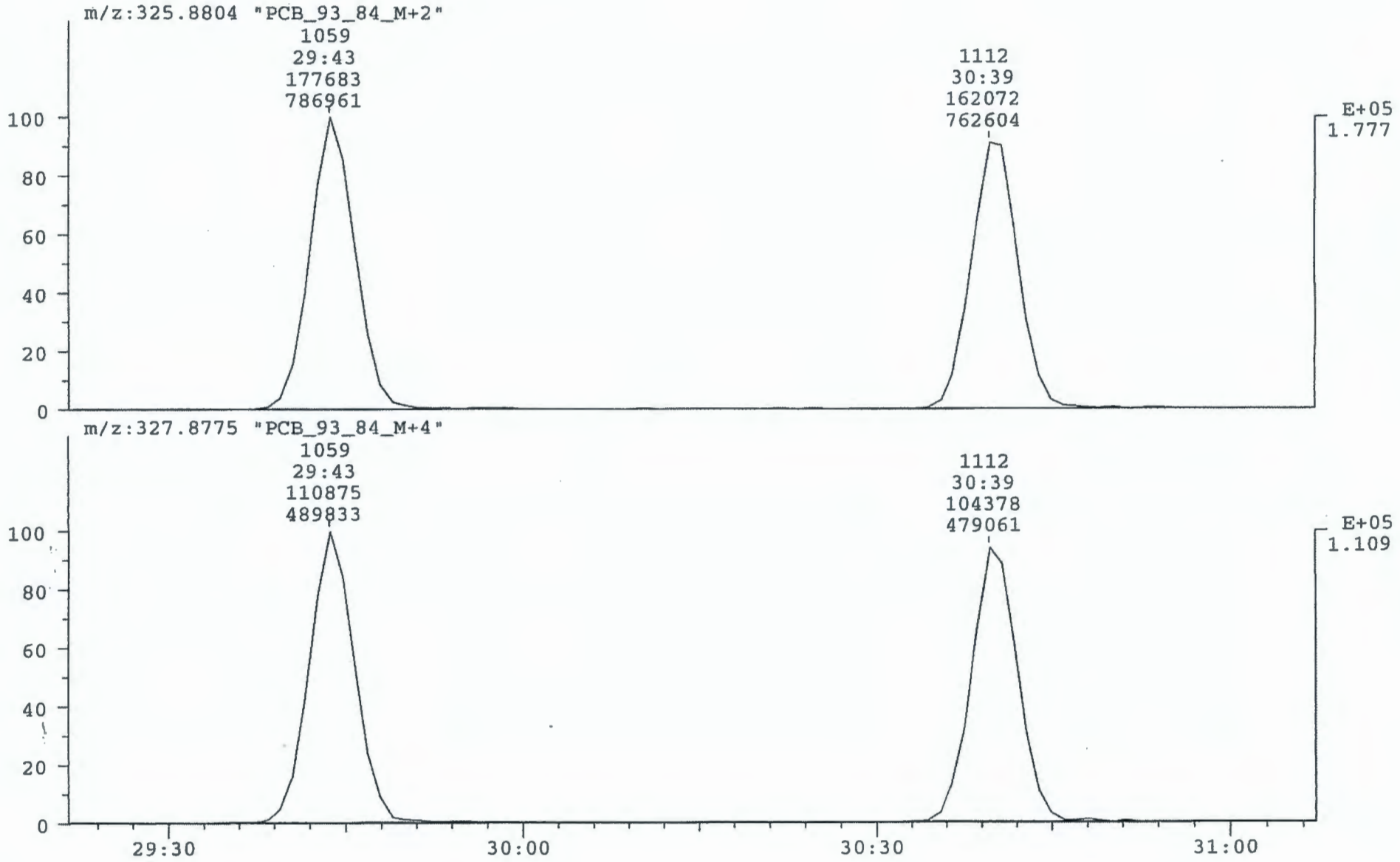
```
CHRO:  a07030732                                08-Mar-07   Elapse:  37:49      1515
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1450 > 1580           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



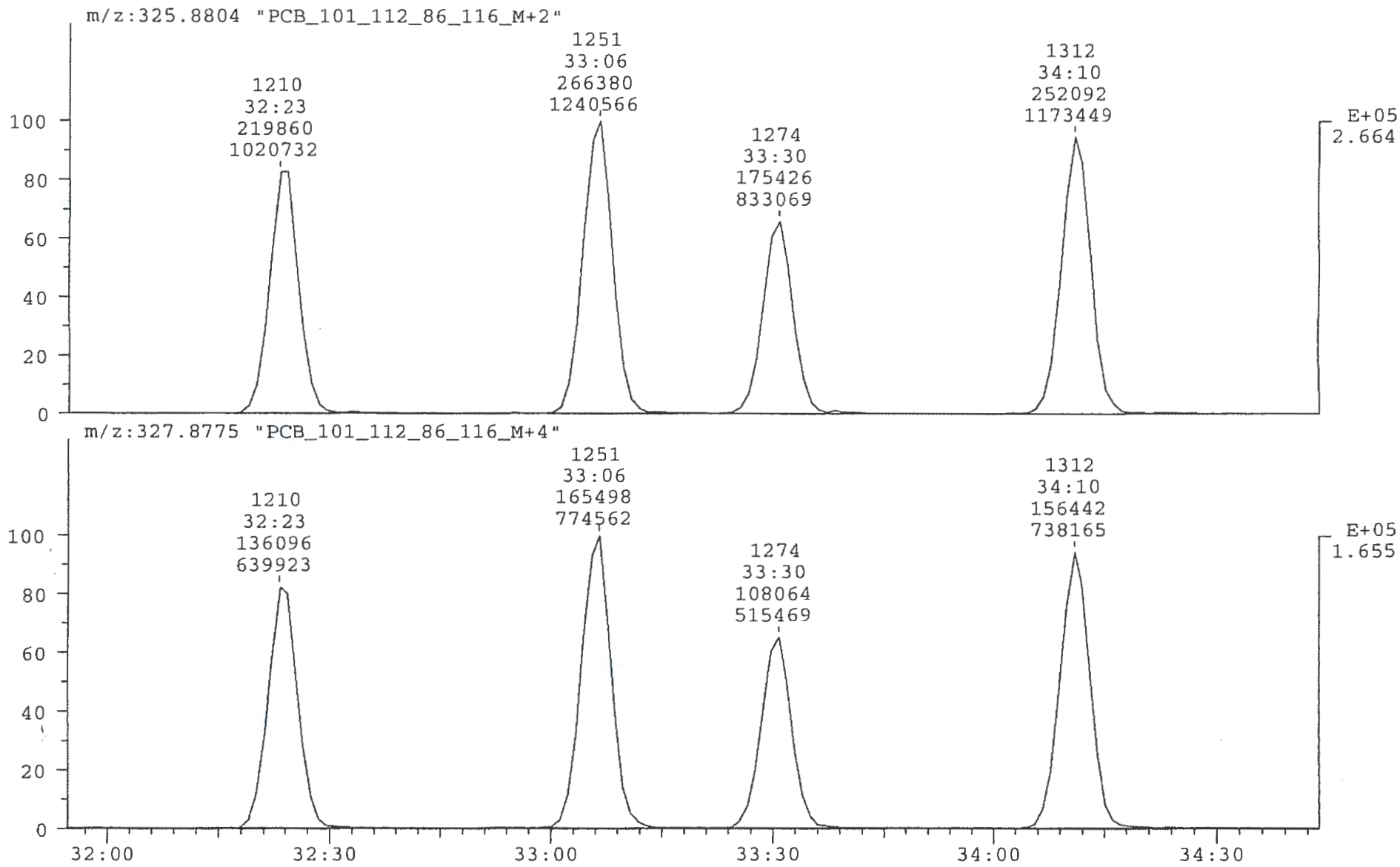
CHRO: a07030732 08-Mar-07 Elapse: 40:50 1686
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1606 > 1766 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



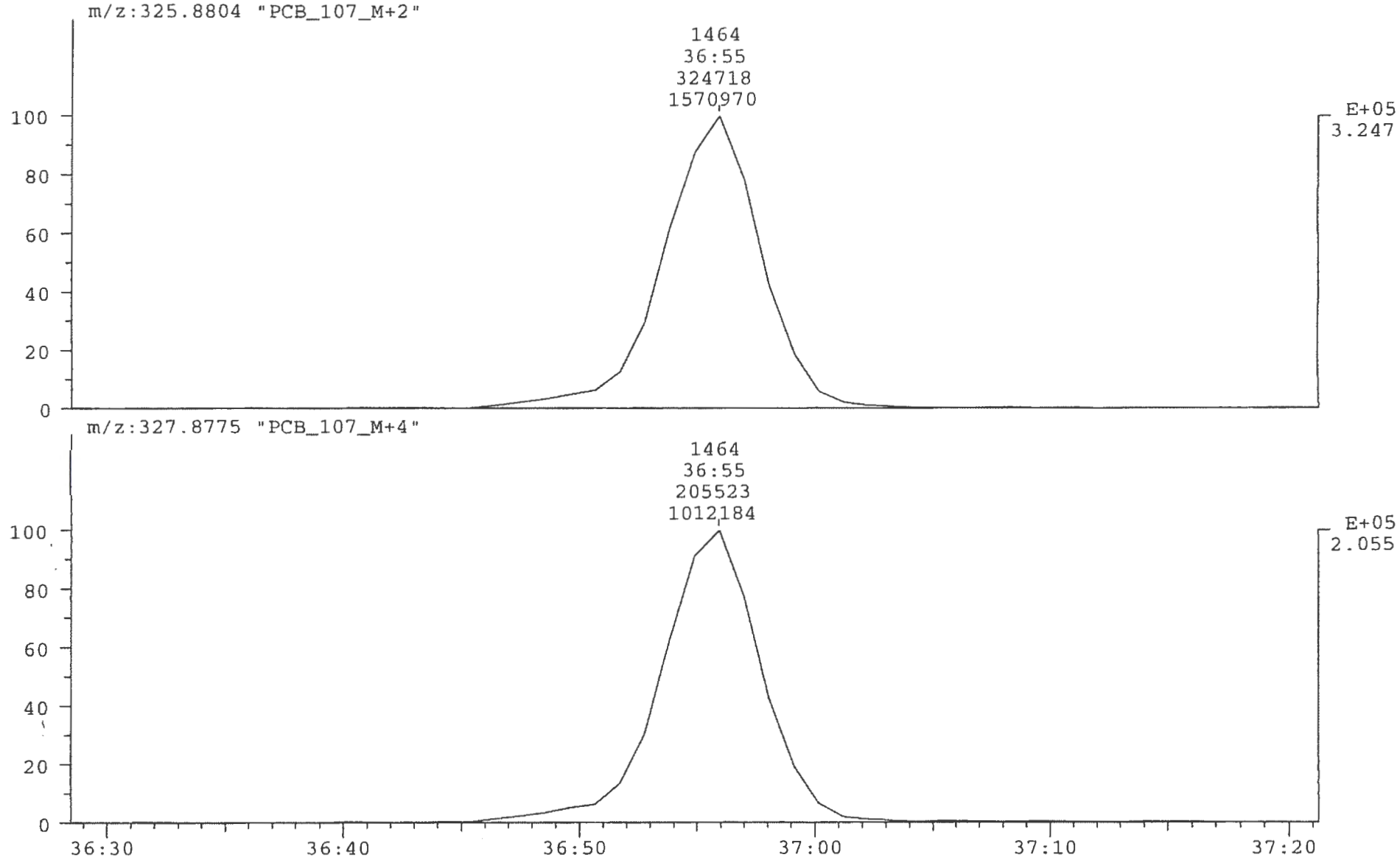
```
CHRO:  a07030732                                08-Mar-07   Elapse:  30:14      1088
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1038 > 1138           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



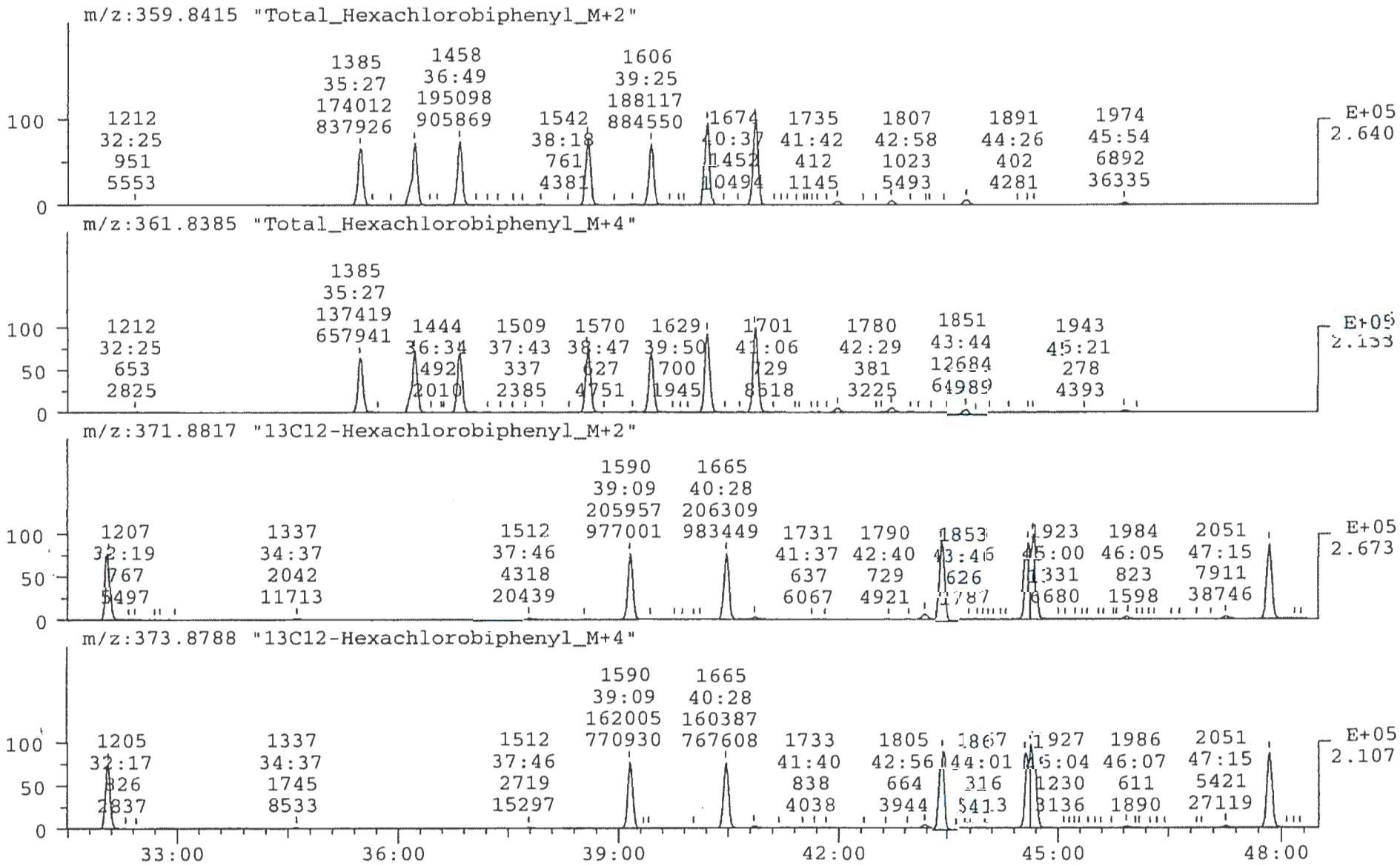
```
CHRO:  a07030732                                08-Mar-07  Elapse:  33:19      1263
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1183 > 1343          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030732                              08-Mar-07   Elapse:  36:54      1463
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1438 > 1488         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

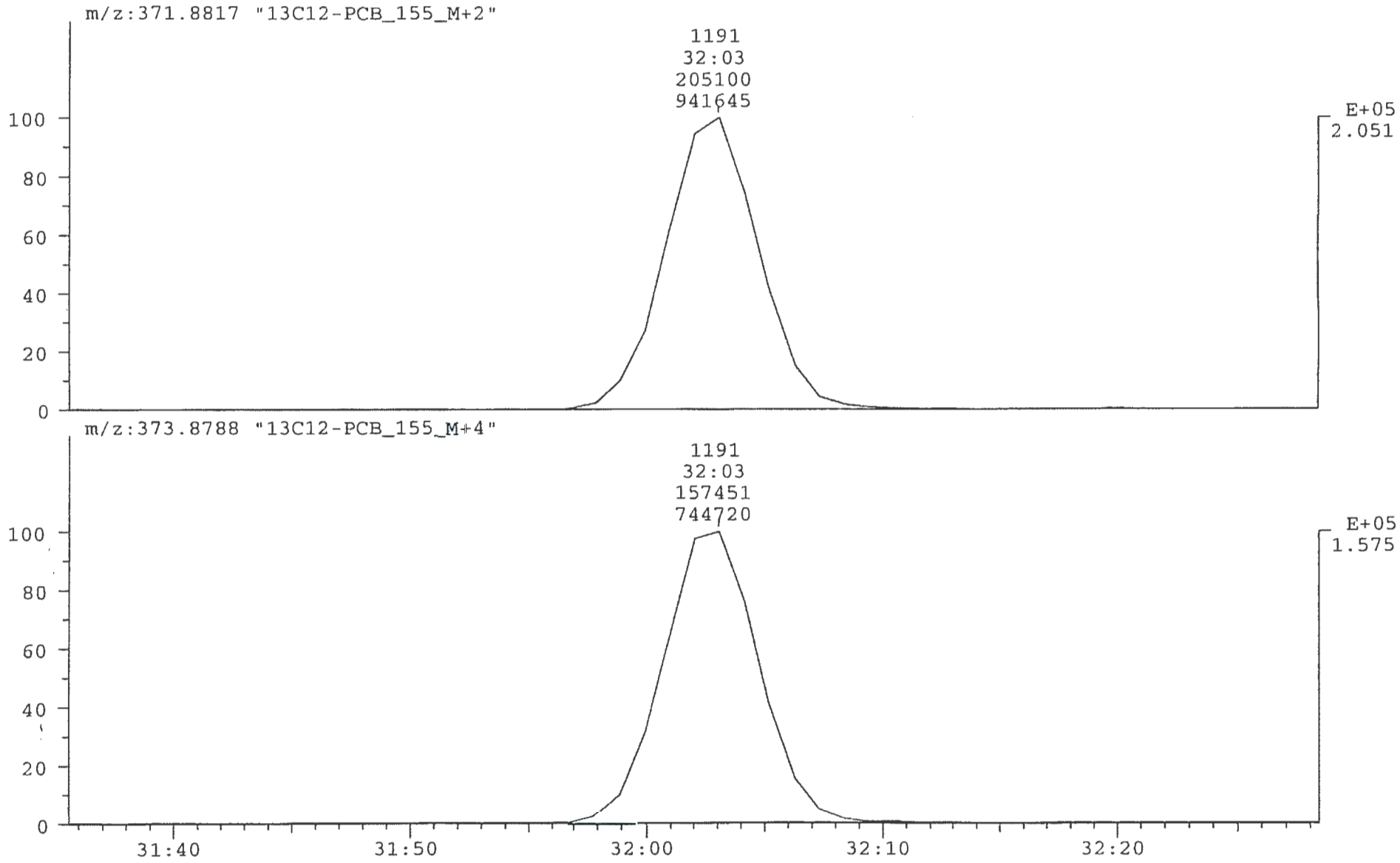


```
CHRO:  a07030732                                08-Mar-07  Elapse:  39:58      1637
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1159 > 2121         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

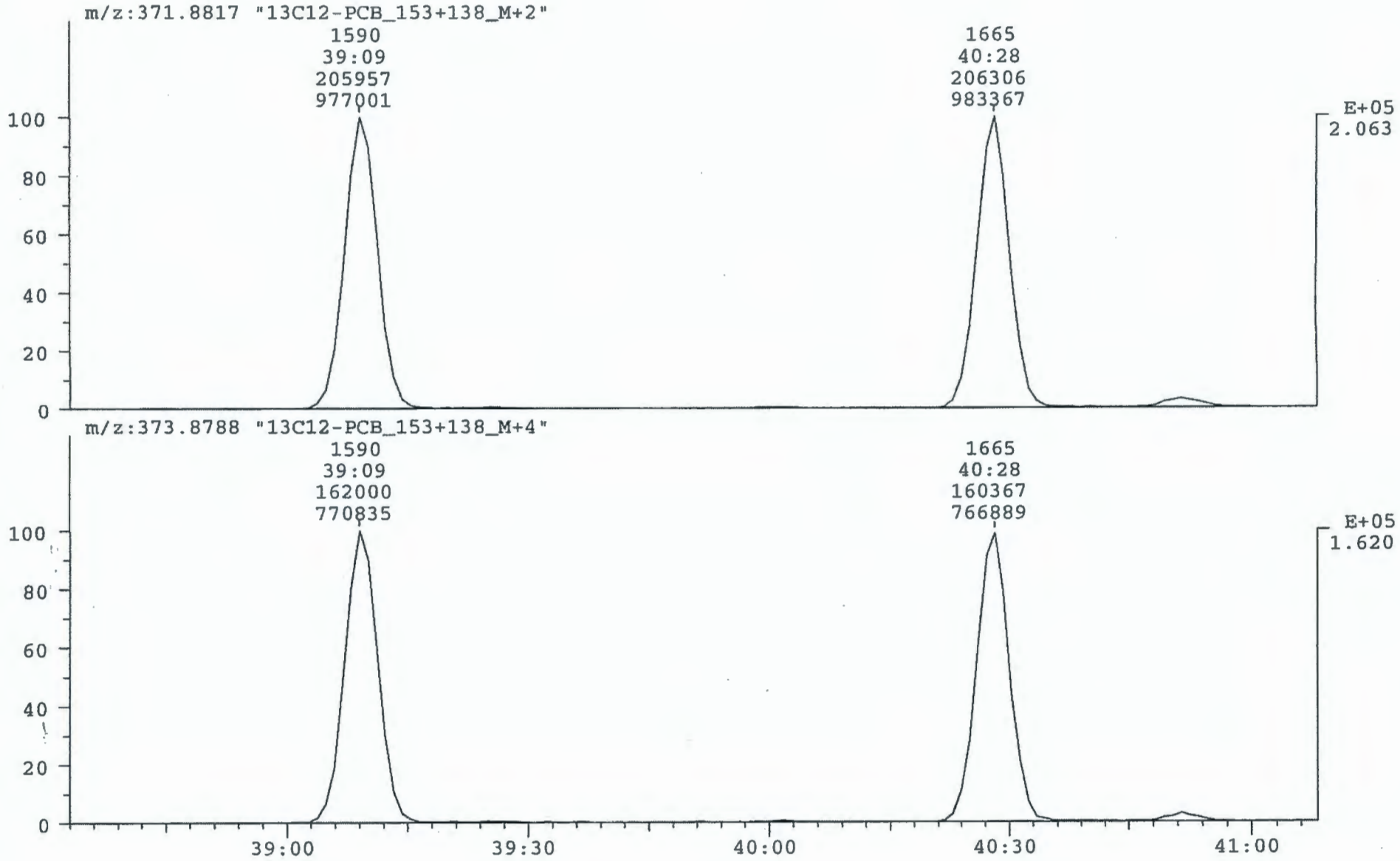


2280

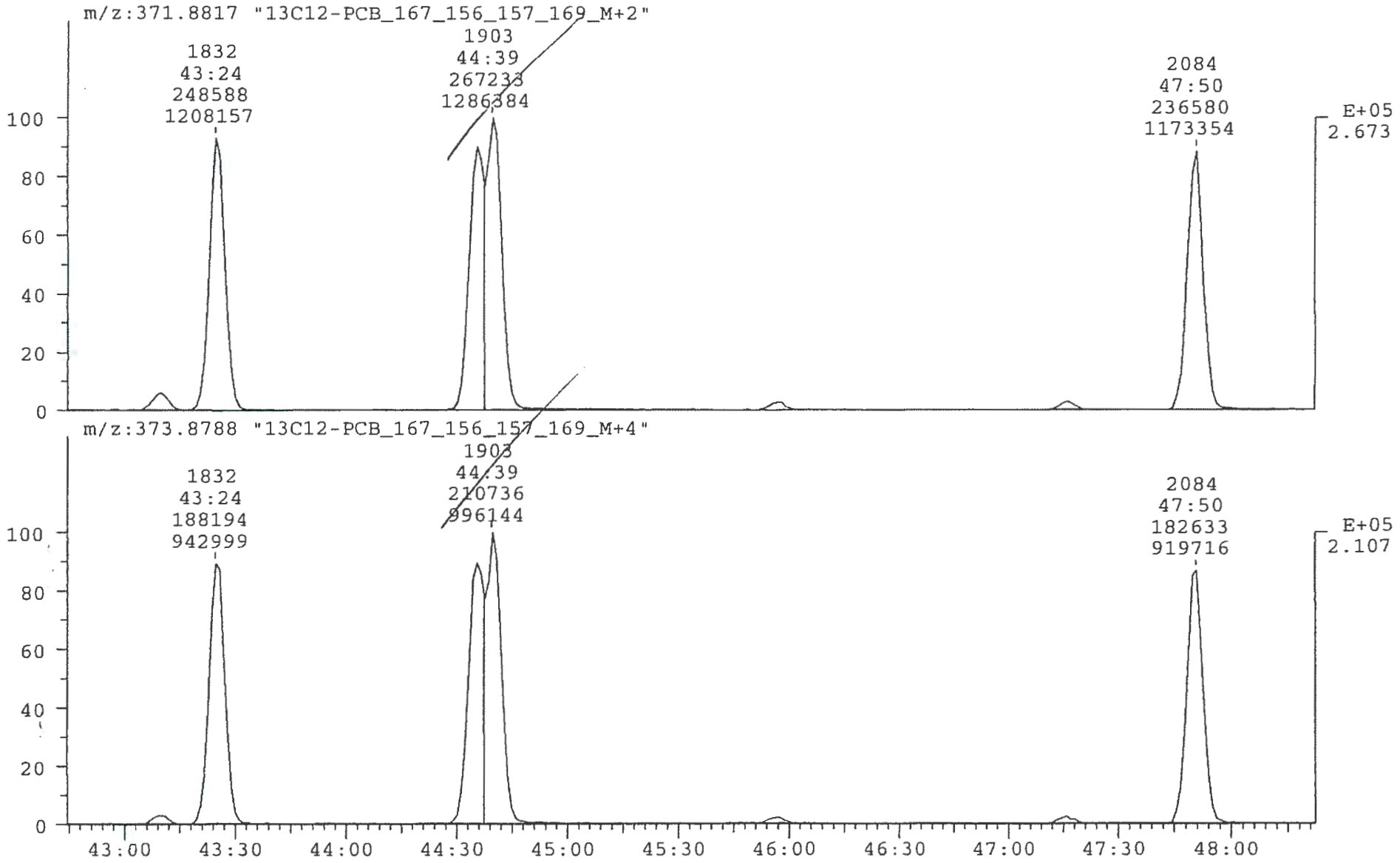
```
CHRO:  a07030732                                08-Mar-07   Elapse:  32:02      1190
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1165 > 1215           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



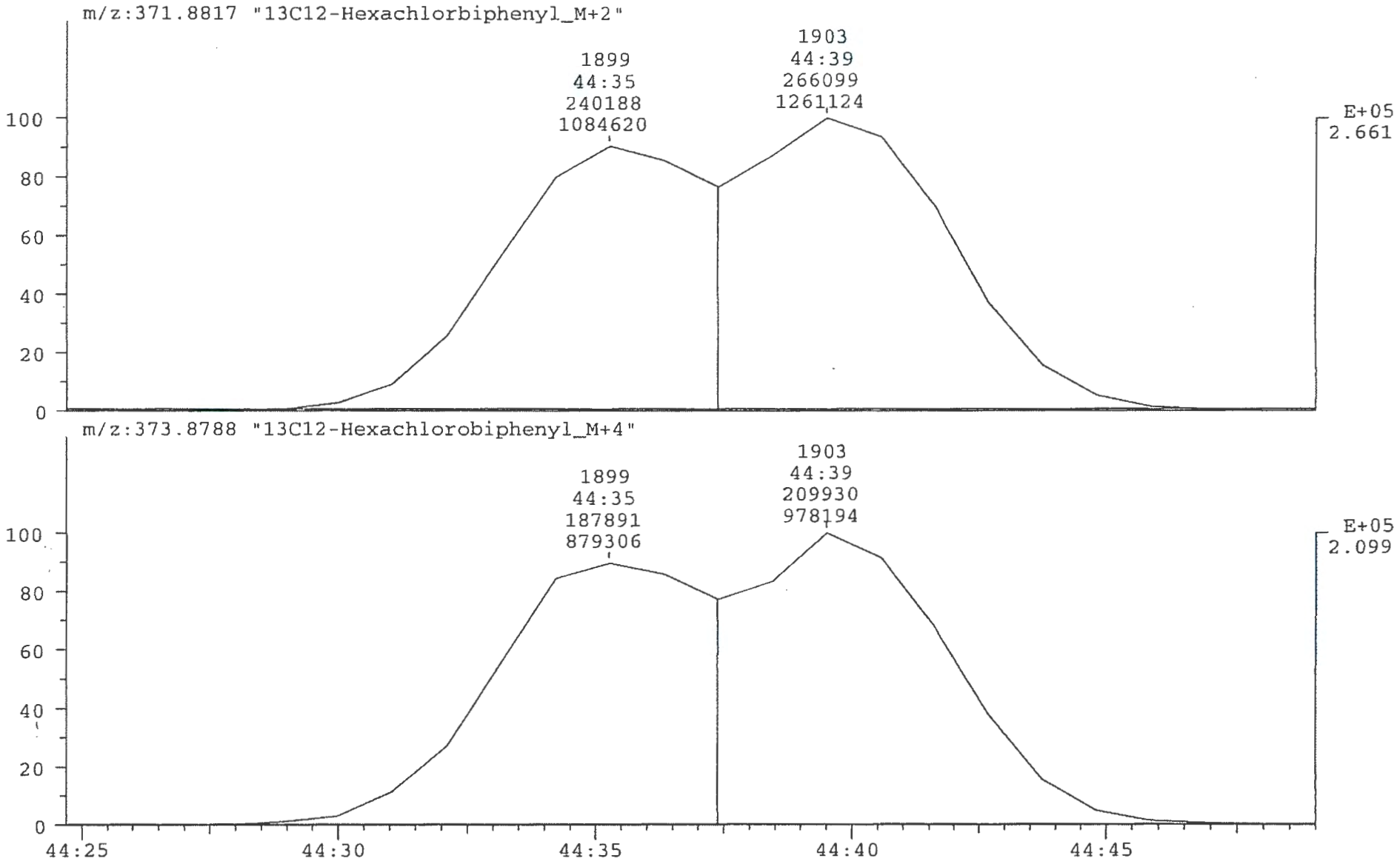
CHRO: a07030732 08-Mar-07 Elapse: 39:50 1629
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1556 > 1703 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



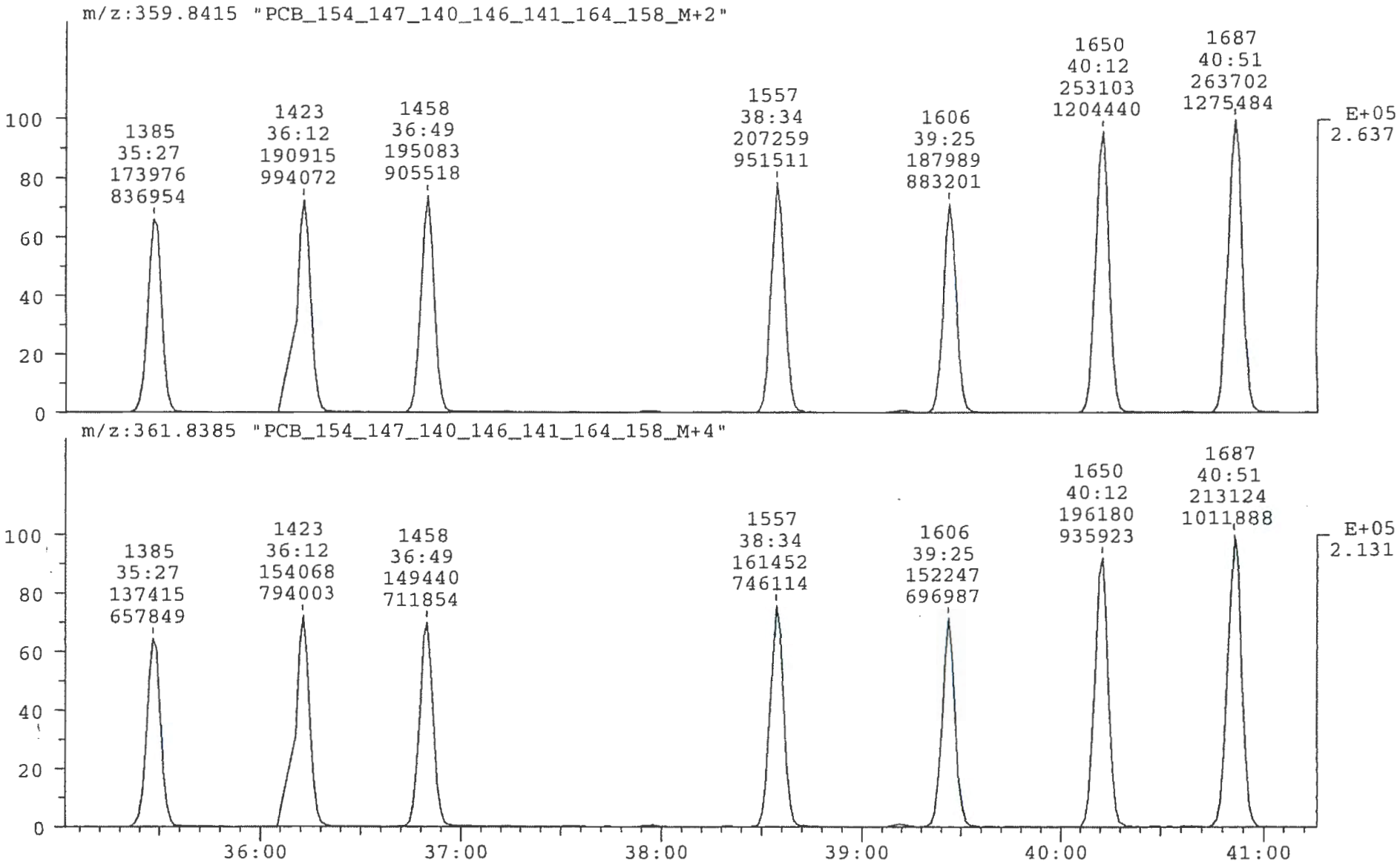
CHRO: a07030732 08-Mar-07 Elapse: 45:38 1959
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1794 > 2114 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



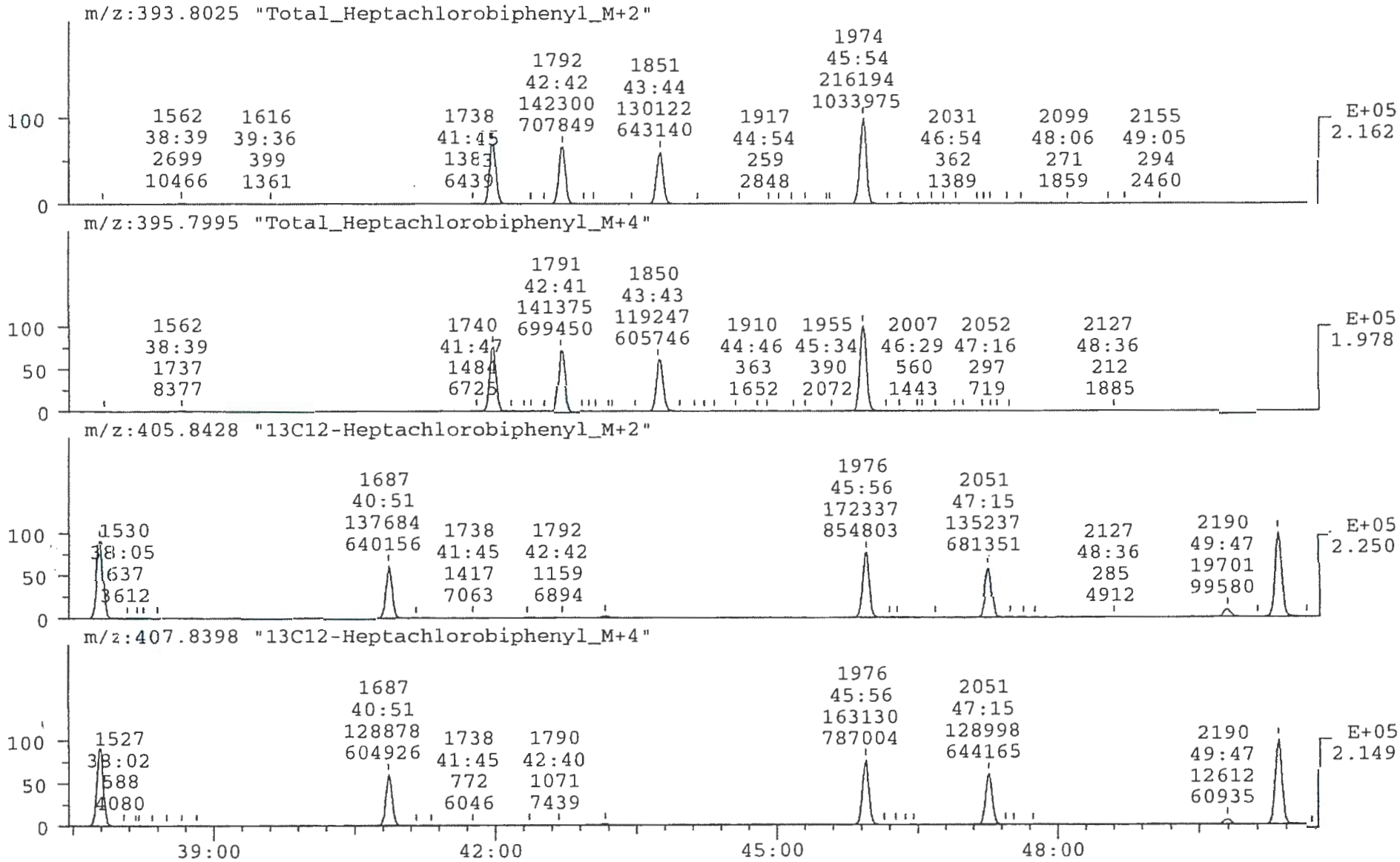
CHRO: a07030732 08-Mar-07 Elapse: 56:12 2555
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 00:15:30 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1889 > 1912 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



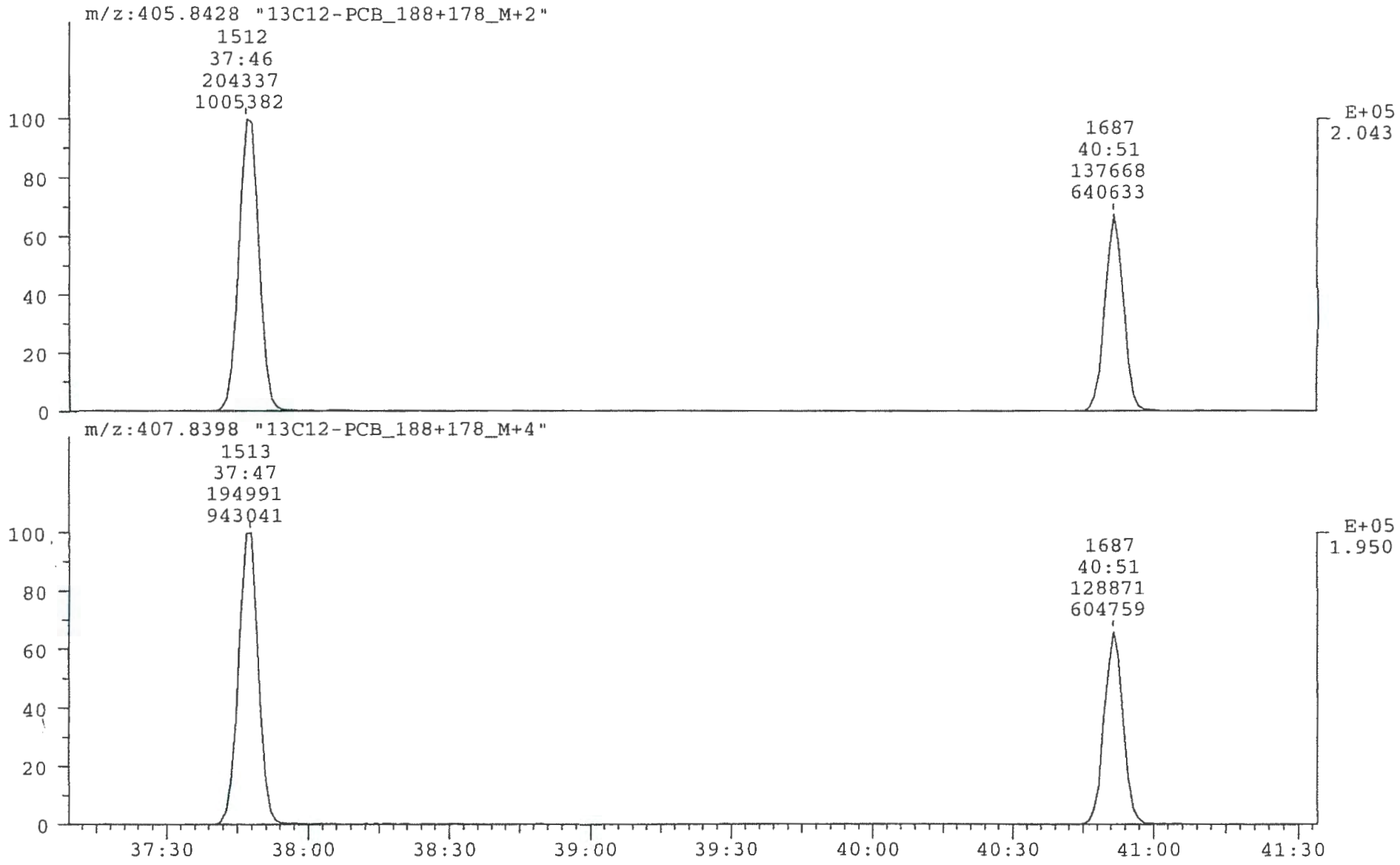
```
CHRO:  a07030732                                08-Mar-07   Elapse:  38:10      1535
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1360 > 1710           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



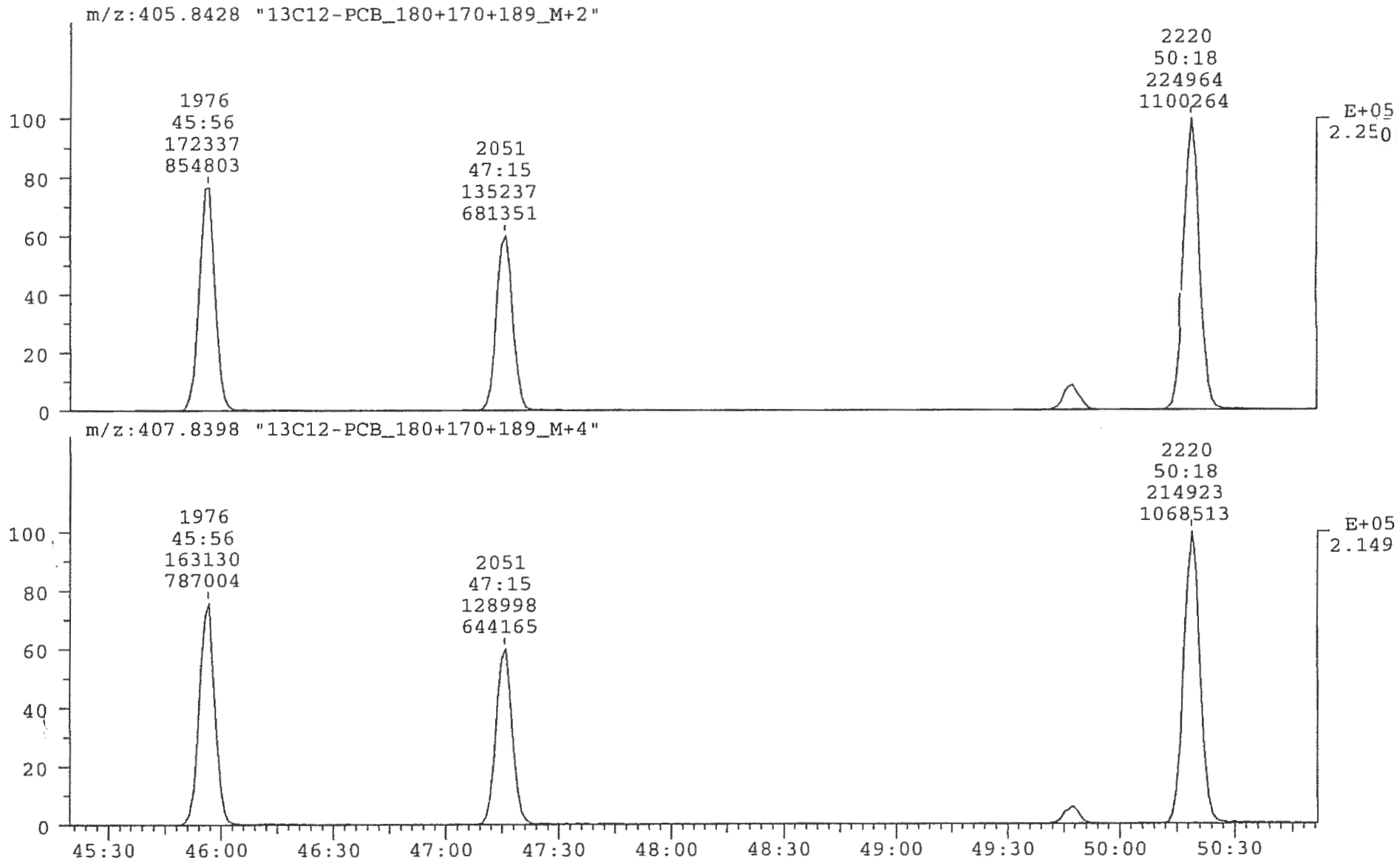
```
CHRO:  a07030732                                08-Mar-07   Elapse:  44:05      1871
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1493 > 2245           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030732                                08-Mar-07   Elapse:  39:20      1601
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1476 > 1727           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

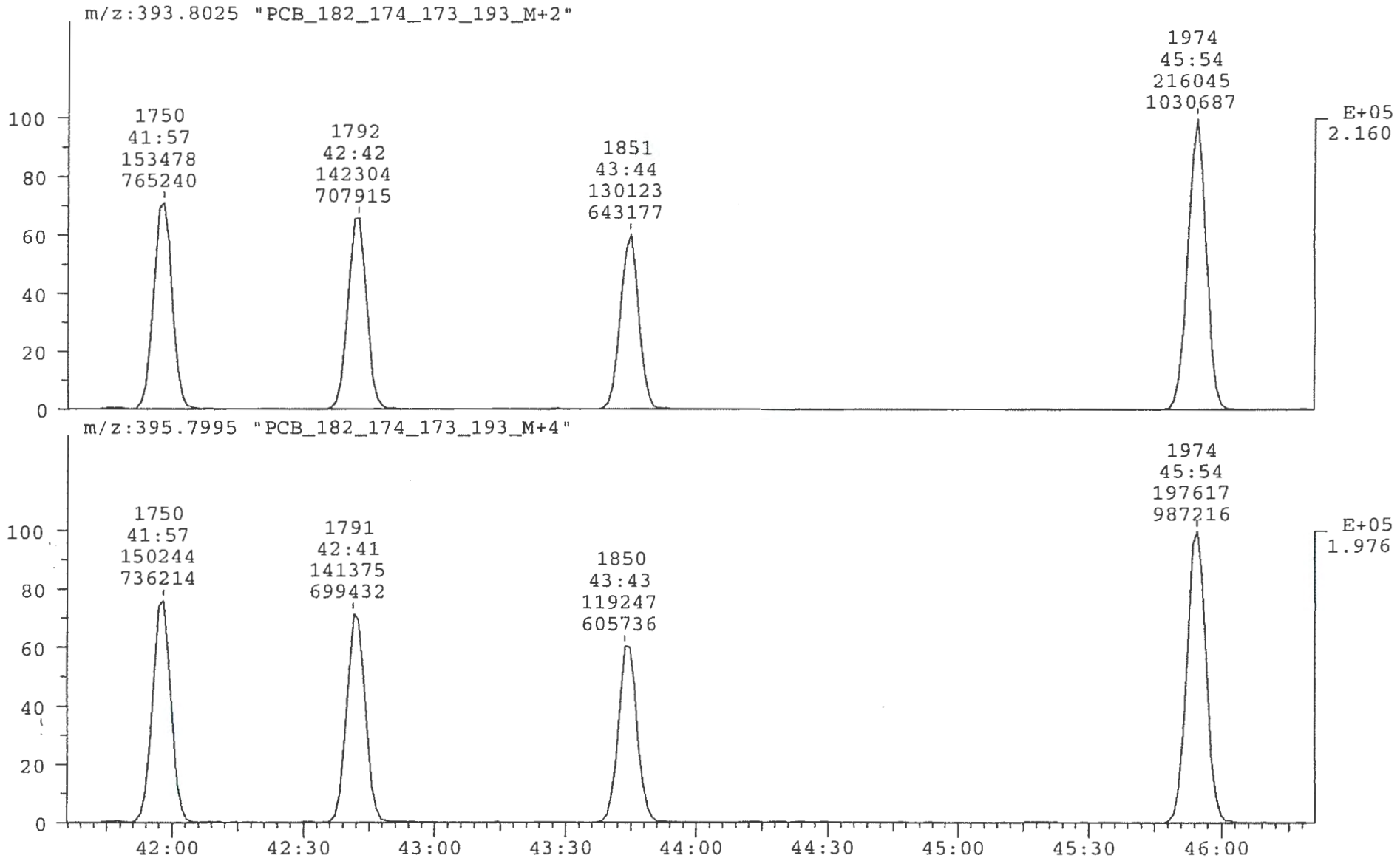


```
CHRO:  a07030732                              08-Mar-07   Elapse:  48:08      2101
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1941 > 2251         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

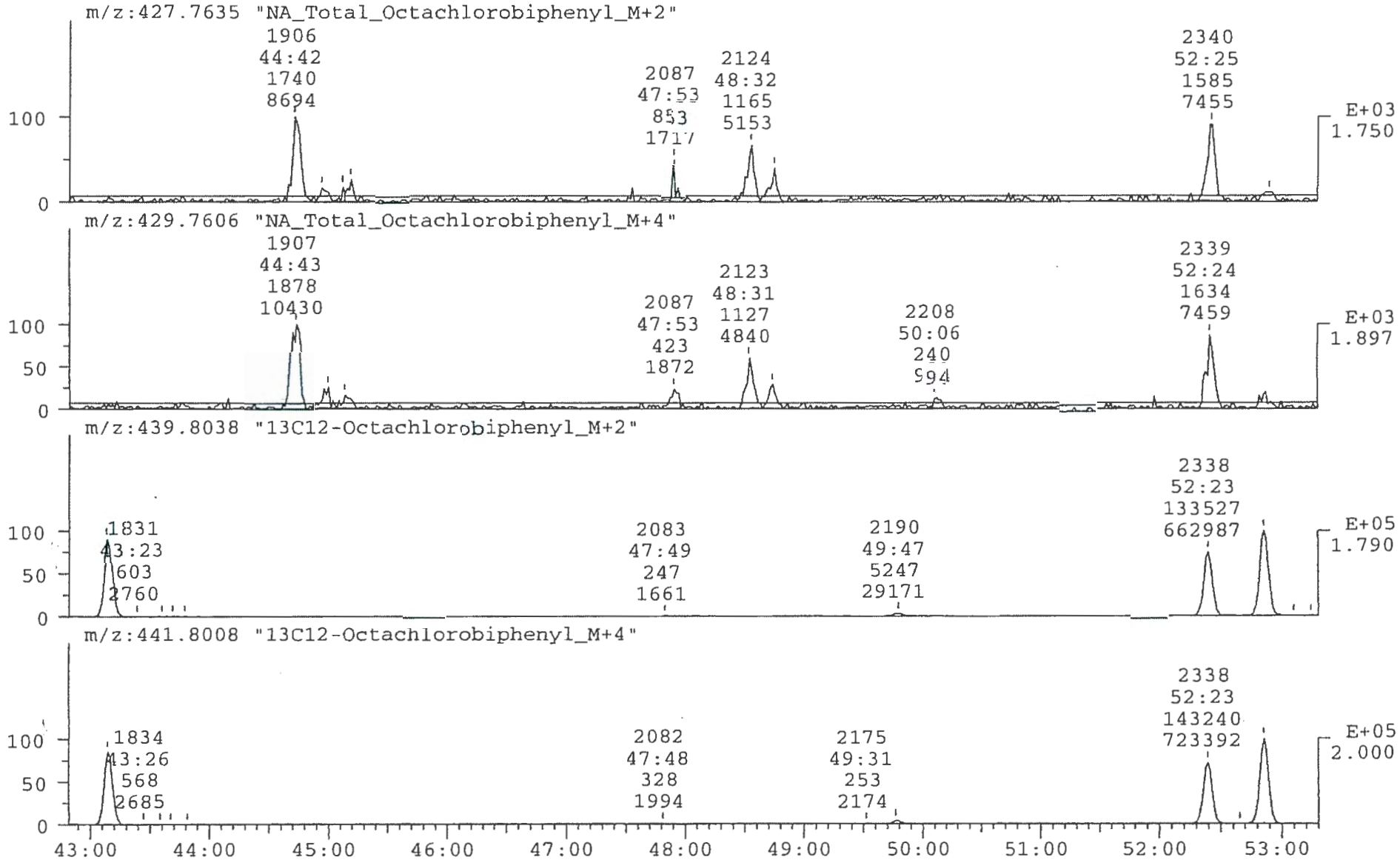


2288

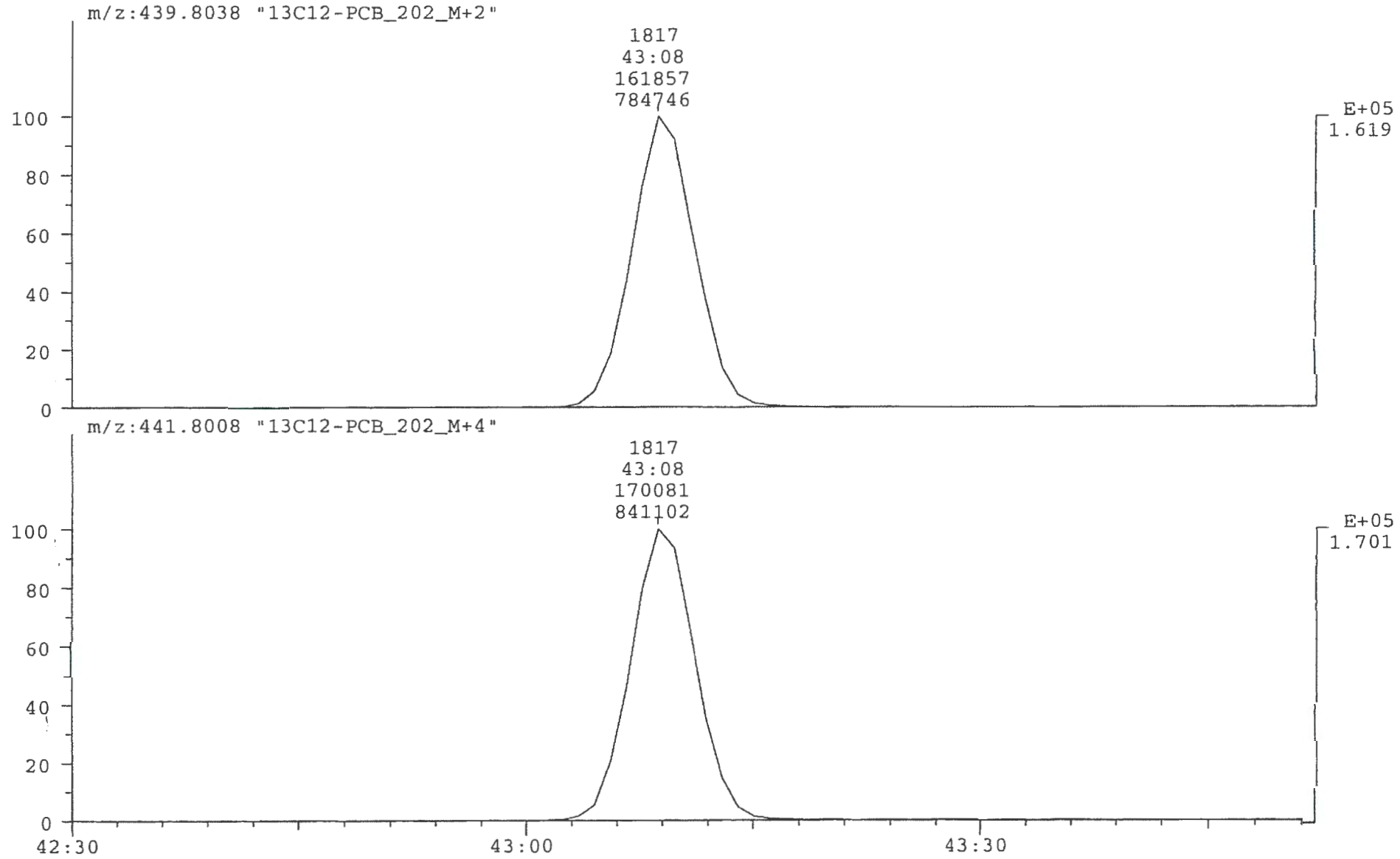
```
CHRO:  a07030732                                08-Mar-07   Elapse:  43:58      1864
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1729 > 1999           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030732                          08-Mar-07   Elapse:  48:03      2096
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1           Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 RT Mix3/Run2
Oper:  DCG          Client:  STL Knoxville            Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   1798 > 2390      Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```

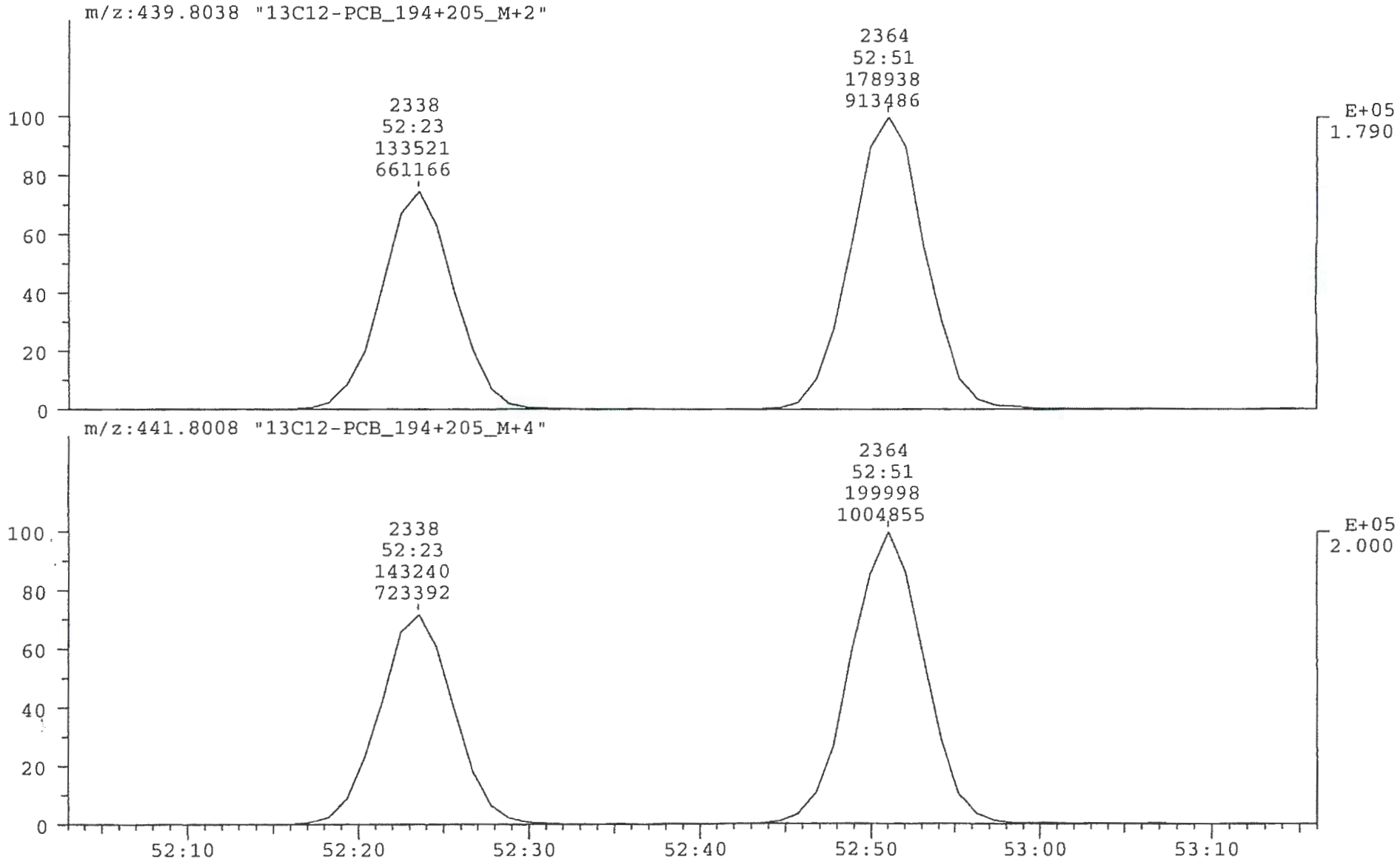


```
CHRO:  a07030732                                08-Mar-07   Elapse:  43:07      1816
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1780 > 1858           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

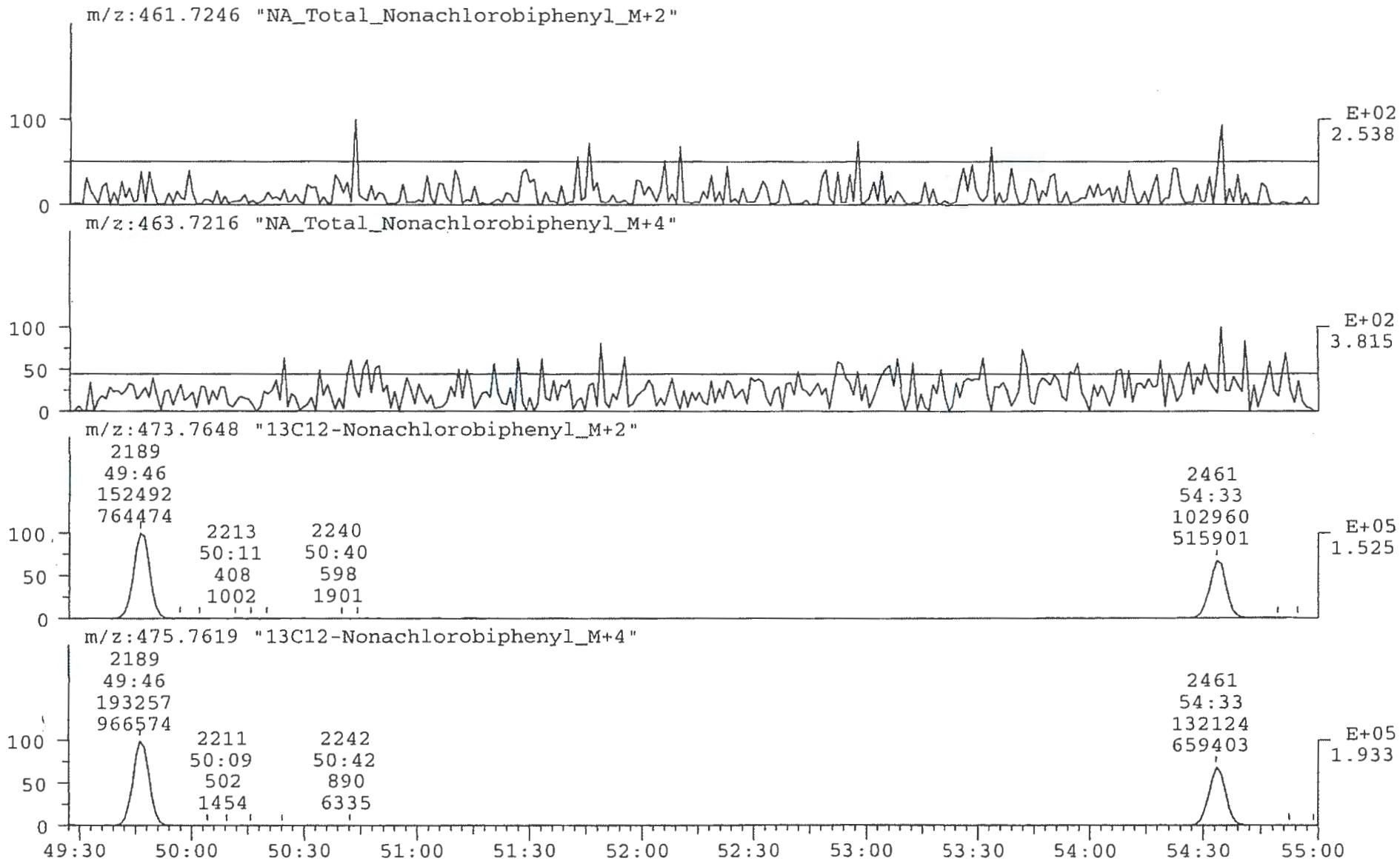


2291

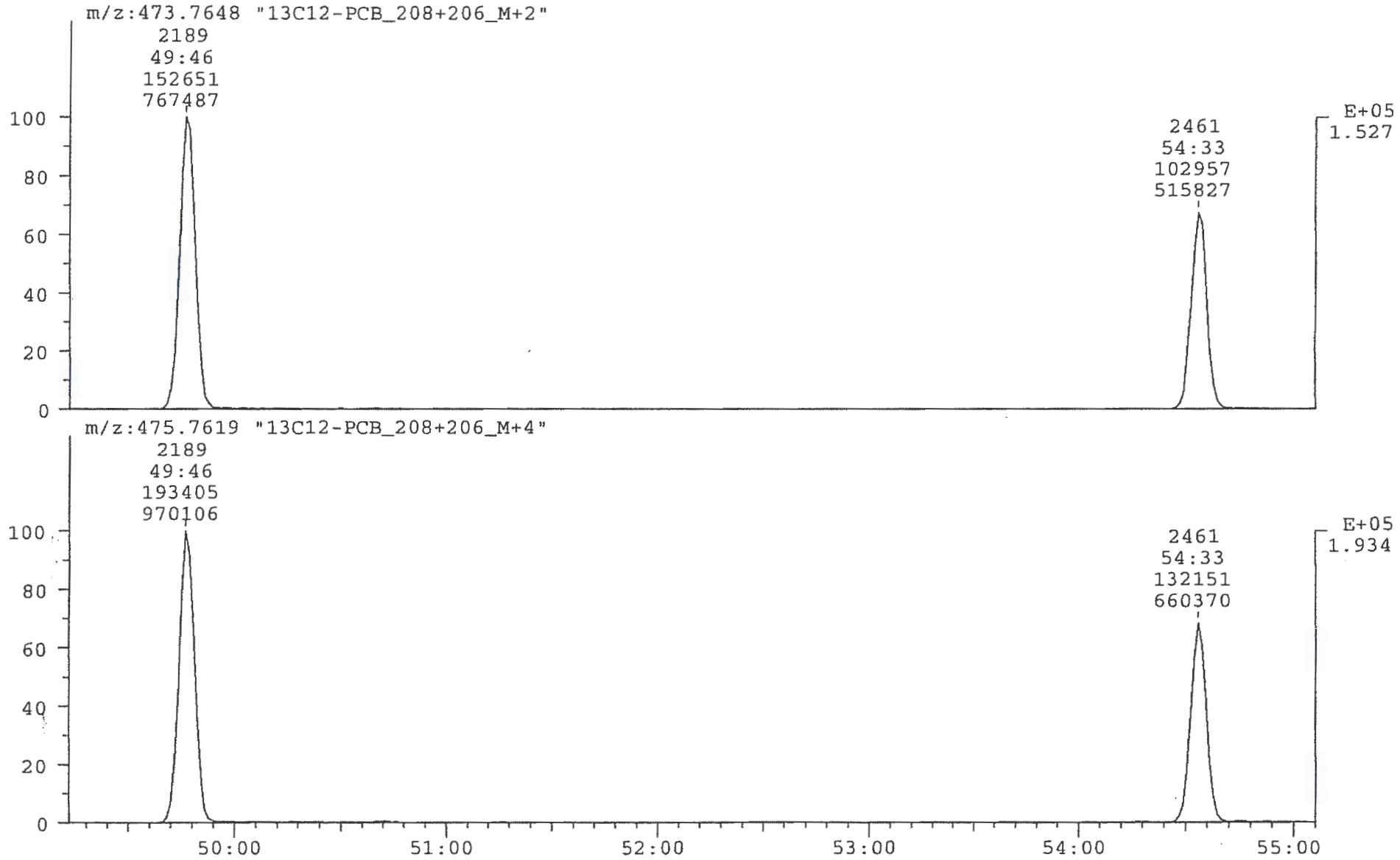
```
CHRO:  a07030732                                08-Mar-07   Elapse:  52:39      2353
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   2319 > 2388           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



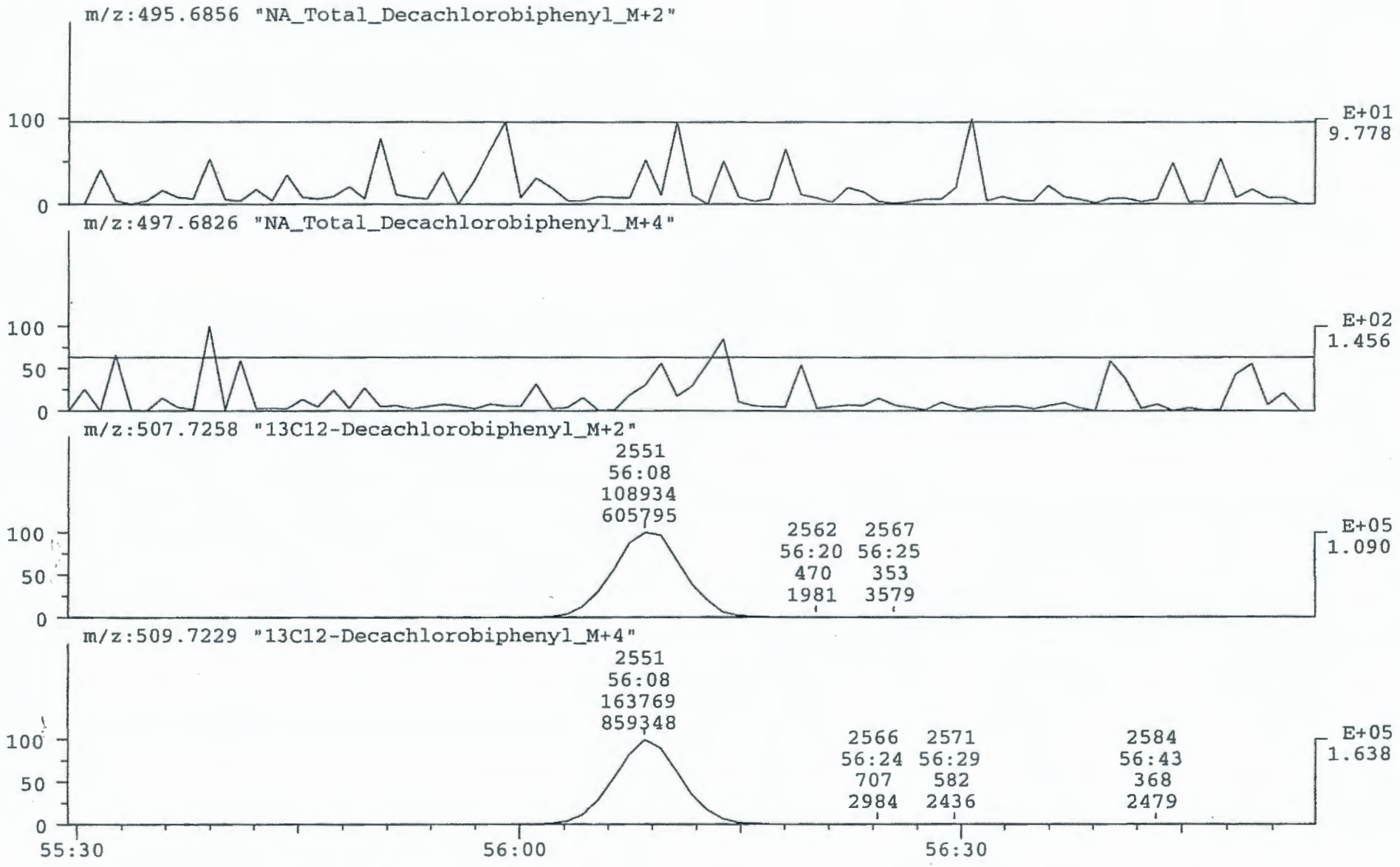
```
CHRO:  a07030732                                08-Mar-07   Elapse:  52:12      2328
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   2171 > 2486           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030732                              08-Mar-07   Elapse:  52:11      2327
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  00:15:30   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run2
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   2162 > 2492          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030732                          08-Mar-07   Elapse:  56:11      2554
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1           Start :  00:15:30   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 RT Mix3/Run2
Oper:  DCG            Client:  STL Knoxville          Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   2514 > 2594     Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3          Label :  -3, 3.0
Disp:  Height  Area
```



2295

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: a07030732
Study: 1668 RT Mix3/Run2
Sample: WO=2990:75Mix3 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 5
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 8 of list 070307
ICL procedure: sleep7x
MID procedure: epal668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	268.0000
FVINLET	255.0000	FVSRC	828.0000	FWIN	0.7000
GCTC	204.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	0.9412	HVANAL	1310.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2607.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7200	TCURR	0.6250
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 00:15:30.2

Autosampler has injected sample from vial 5
MID Time Window 1: Resolution is 7541
MID Time Window 2: Resolution is 6725
MID Time Window 3: Resolution is 9526
MID Time Window 4: Resolution is 9642
Analysis stopped at: 08-Mar-07 01:12:33.6 (run time 57.04 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030733.d	Prep Date		SDG No	
Analysis ID	96247	Prep Exp Date		Date Received	
Analysis Date	03/08/07 05:23	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	190	310	76	124	0.61 *	/	
	13C12-PCB 1	12:12	00:00	0	2405200	754919	873431	277143	3.19	AVV/AVV	
	13C12-PCB 3	14:24	00:00	0	2400984	740343	790347	245404	3.24	ABV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	320	498	128	199	0.64 *	/	
	PCB 13 (BZ)	20:20	00:00	0	879730	551065	234537	143135	1.60	AVV/AVB	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	383	200	153	80	1.91 *	/	
	13C12-PCB 4	14:42	00:00	0	1020644	626165	331573	197563	1.63	ABV/AVV	
	13C12-PCB 9	16:39	00:00	0	1725100	1078748	512427	311159	1.60	AVV/AVV	
	13C12-PCB 8	17:31	00:00	0	1797935	1093464	497846	309508	1.64	AVV/AVV	
	13C12-PCB 15	20:40	00:00	0	1765314	1086825	458645	280882	1.62	AVV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	205	155	82	62	1.32 *	/	
	PCB 17 (BZ)	20:09	00:00	0	387921	363583	96187	94218	1.07	ABV/ABV	
	PCB 29 (BZ)	22:50	00:00	0	836447	817945	207135	204012	1.02	ABV/ABV	
	PCB 20 (BZ)	23:47	00:00	0	773863	756955	186126	177268	1.02	ABV/ABV	D
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	530	295	212	118	1.80 *	/	
	13C12-PCB 19	17:52	00:00	0	601346	564446	166447	157688	1.07	AVV/AVV	
	13C12-PCB 32	21:08	00:00	0	1102425	1016268	277571	259289	1.08	AVV/AVV	
	13C12-PCB 31	23:23	00:00	0	1704769	1610373	418286	389704	1.06	ABV/ABV	
	13C12-PCB 28	23:41	00:00	0	1565728	1499840	362265	349145	1.04	AVV/AVV	
	13C12-PCB 37	27:46	00:00	0	1515735	1398696	331233	300809	1.08	AVV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	235	190	94	76	1.24 *	/	
	PCB 46 (BZ)	24:12	00:00	0	691644	878687	165911	210738	0.79	ABV/ABV	D
	PCB 65 (BZ)	26:31	00:00	0	1117069	1397093	250365	313538	0.80	ABV/ABV	
	PCB 59 (BZ)	26:54	00:00	0	1119604	1427713	254638	326066	0.78	AVV/AVV	M
	PCB 40 (BZ)	27:39	00:00	0	602270	774144	136606	178790	0.78	ABB/AVB	DM
	PCB 67 (BZ)	29:42	00:00	0	1256711	1635791	279361	367300	0.77	ABV/ABV	D
	PCB 76 (BZ)	30:21	00:00	0	1124985	1461809	251281	322542	0.77	AVV/AVV	M
	PCB 80 (BZ)	31:52	00:00	0	1296802	1642840	275388	350542	0.79	ABV/ABV	D
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	163	140	65	56	1.16 *	/	
	13C12-PCB 54	21:01	00:00	0	528879	654279	133195	166730	0.81	ABV/ABV	
	13C12-PCB 52	25:32	00:00	0	812867	1008531	193077	236512	0.81	ABV/ABV	
	13C12-PCB 79	33:27	00:00	0	1157663	1451369	256944	314245	0.80	ABV/ABV	
	13C12-PCB 81	34:29	00:00	0	1024154	1283042	214896	272064	0.80	ABV/ABV	D
	13C12-PCB 77	35:05	00:00	0	1055071	1321150	215252	264463	0.80	ABV/ABV	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030733.	Prep Date		SDG No	
Analysis ID	96247	Prep Exp Date		Date Received	
Analysis Date	03/08/07 05:23	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	305	230	122	92	1.33	/	
	PCB 93 (BZ)	29:42	00:00	0	834620	527304	182620	117145	1.58	ABV/ABV	D
	PCB 84 (BZ)	30:39	00:00	0	800203	504238	176486	105886	1.59	ABV/ABV	D
	PCB 101 (BZ)	32:21	00:00	0	1088610	665305	229145	143254	1.64	ABV/ABV	DM
	PCB 112 (BZ)	33:05	00:00	0	1299146	827033	271091	173004	1.57	ABV/ABV	D
	PCB 86 (BZ)	33:29	00:00	0	867648	556775	186491	113839	1.56	AVV/AVV	DM
	PCB 116 (BZ)	34:09	00:00	0	1229202	775371	263013	169956	1.59	AVV/ABV	DM
	PCB 107 (BZ)/109 (IUPAC	36:54	00:00	0	1658983	1052663	343687	214243	1.58	AVV/AVV	D
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	168	148	67	59	1.14 *	/	
	13C12-PCB 104	26:28	00:00	0	1221961	752563	280698	175096	1.62	ABV/ABV	D
	13C12-PCB 95	29:29	00:00	0	900199	560689	191404	122818	1.61	ABV/ABV	D
	13C12-PCB 101	32:20	00:00	0	968481	598660	213579	131581	1.62	ABV/AVV	
	13C12-PCB 111	34:58	00:00	0	1207198	742241	256285	156717	1.63	ABV/ABV	
	13C12-PCB 123	36:59	00:00	0	1467126	912877	309597	196236	1.61	ABV/ABV	D
	13C12-PCB 118	37:18	00:00	0	1529559	954159	310969	195436	1.60	AVV/AVV	D
	13C12-PCB 114	37:51	00:00	0	1474205	920631	291903	187366	1.60	AVV/AVV	D
	13C12-PCB 105	38:33	00:00	0	1452195	896895	295882	180780	1.62	ABV/AVV	D
	13C12-PCB 127	39:57	00:00	0	1625266	1013139	334914	205101	1.60	AVV/ABV	
	13C12-PCB 126	41:37	00:00	0	1539207	973204	320768	202114	1.58	ABV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	285	205	114	82	1.39	/	
	PCB 154 (BZ)	35:26	00:00	0	879811	688138	193478	147891	1.28	ABV/ABV	D
	PCB 147 (BZ)	36:11	00:00	0	1120808	889570	203871	158603	1.26	ABV/ABV	D
	PCB 140 (BZ)	36:48	00:00	0	938470	759463	196549	157261	1.24	AVV/AVV	DM
	PCB 146 (BZ)	38:32	00:00	0	995324	794653	206406	165760	1.25	ABV/ABV	D
	PCB 141 (BZ)	39:24	00:00	0	927488	738622	190118	157317	1.26	ABV/ABV	D
	PCB 164 (BZ)	40:10	00:00	0	1271933	1001998	268218	208162	1.27	ABV/AVV	
	PCB 158 (BZ)	40:49	00:00	0	1342973	1067024	275694	222668	1.26	AVV/AVV	D
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	350	133	140	53	2.64 *	/	
	13C12-PCB 155	32:01	00:00	0	992645	774612	211066	164580	1.28	ABV/ABV	D
	13C12-PCB 153	39:07	00:00	0	1028354	817190	219438	173206	1.26	ABV/ABV	D
	13C12-PCB 138	40:26	00:00	0	1027527	804375	218002	169878	1.28	ABV/ABV	
	13C12-PCB 167	43:23	00:00	0	1260281	1007498	254537	203395	1.25	AVV/AVV	
	13C12-PCB 156	44:33	00:00	0	1160946	909492	254415	199139	1.28	ABV/ABV	D
	13C12-PCB 157	44:38	00:00	0	1360774	1053188	279574	213955	1.29	AVB/AVB	M
	13C12-PCB 169	47:49	00:00	0	1239310	968282	256318	197335	1.28	ABV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	203	205	81	82	0.99	/	
	PCB 182 (BZ)	41:56	00:00	0	815269	762915	166556	154122	1.07	AVV/AVV	D
	PCB 174 (BZ)	42:40	00:00	0	758639	701939	155681	144073	1.08	AVV/AVV	D
	PCB 173 (BZ)	43:43	00:00	0	668697	635657	135064	131079	1.05	AVV/AVV	DM

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX3	Prep Batch		Lot No	
Data File	/20070307rt/a07030733.	Prep Date		SDG No	
Analysis ID	96247	Prep Exp Date		Date Received	
Analysis Date	03/08/07 05:23	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

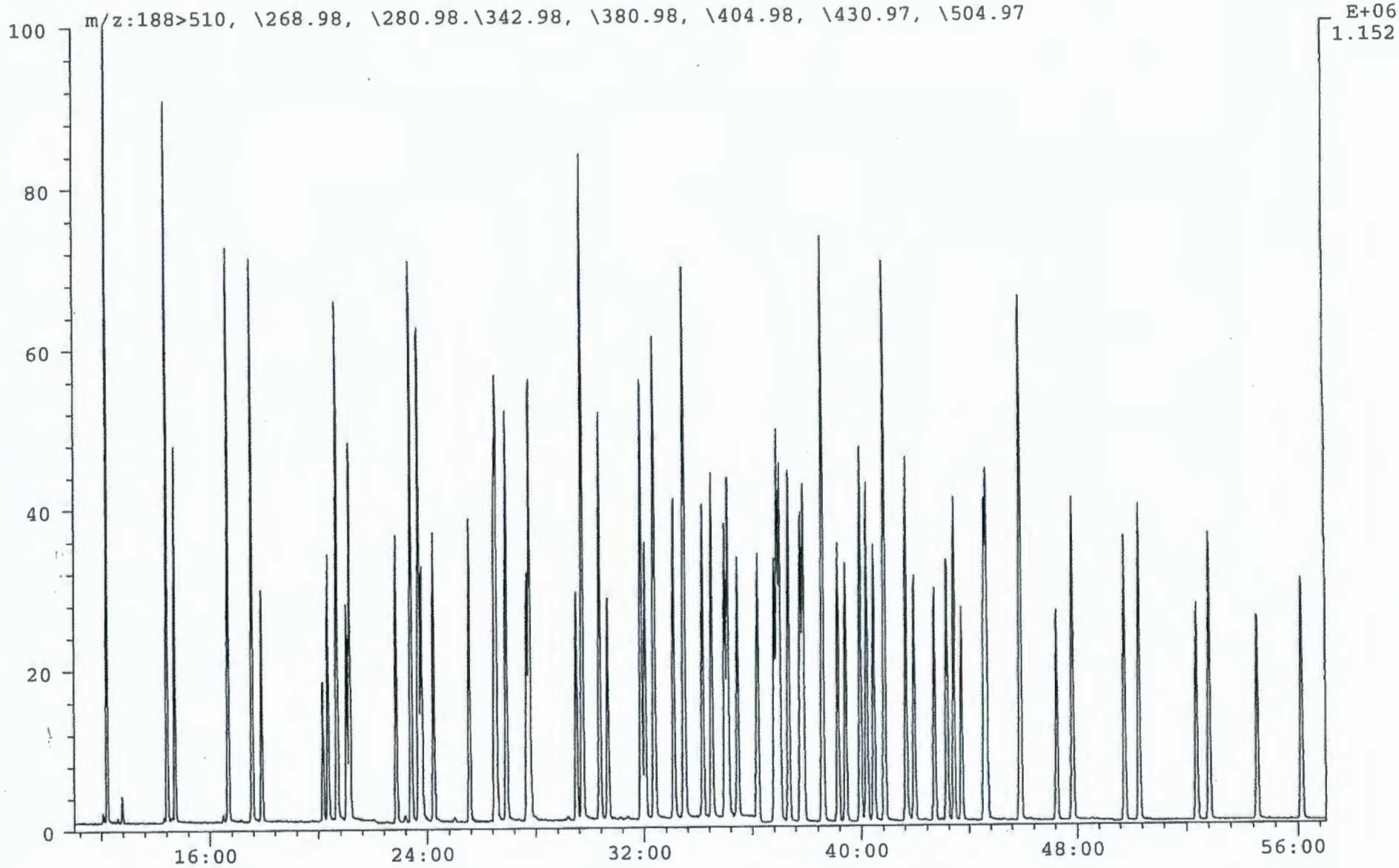
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	PCB 193 (BZ)	45:53	00:00	0	1097414	1051257	226878	218909	1.04	ABV/ABB	D
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	198	145	79	58	1.36 *	/	
	13C12-PCB 188	37:46	00:00	0	1065105	989129	219339	201806	1.08	ABV/ABV	D
	13C12-PCB 178	40:49	00:00	0	697608	645039	142131	137668	1.08	ABV/ABV	D
	13C12-PCB 180	45:55	00:00	0	908318	833817	180462	168870	1.09	ABV/ABV	
	13C12-PCB 170	47:14	00:00	0	723410	673475	145908	134170	1.07	AVV/AVV	
	13C12-PCB 189	50:17	00:00	0	1163040	1108082	231752	223809	1.05	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	113	115	45	46	0.98	/	
	13C12-PCB 202	43:07	00:00	0	811663	889703	160981	182911	0.91	ABV/ABV	D
	13C12-PCB 194	52:21	00:00	0	698798	769900	139559	154251	0.91	ABB/ABV	
	13C12-PCB 205	52:49	00:00	0	958583	1073075	188879	210511	0.89	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	165	165	66	66	1.00 *	/	
	13C12-PCB 208	49:44	00:00	0	823535	1022984	161892	206025	0.81	AVV/AVV	
	13C12-PCB 206	54:31	00:00	0	556317	698868	108342	139406	0.80	ABV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	163	133	65	53	1.23 *	/	
	13C12-PCB 209	56:06	00:00	0	647690	921458	115783	169052	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

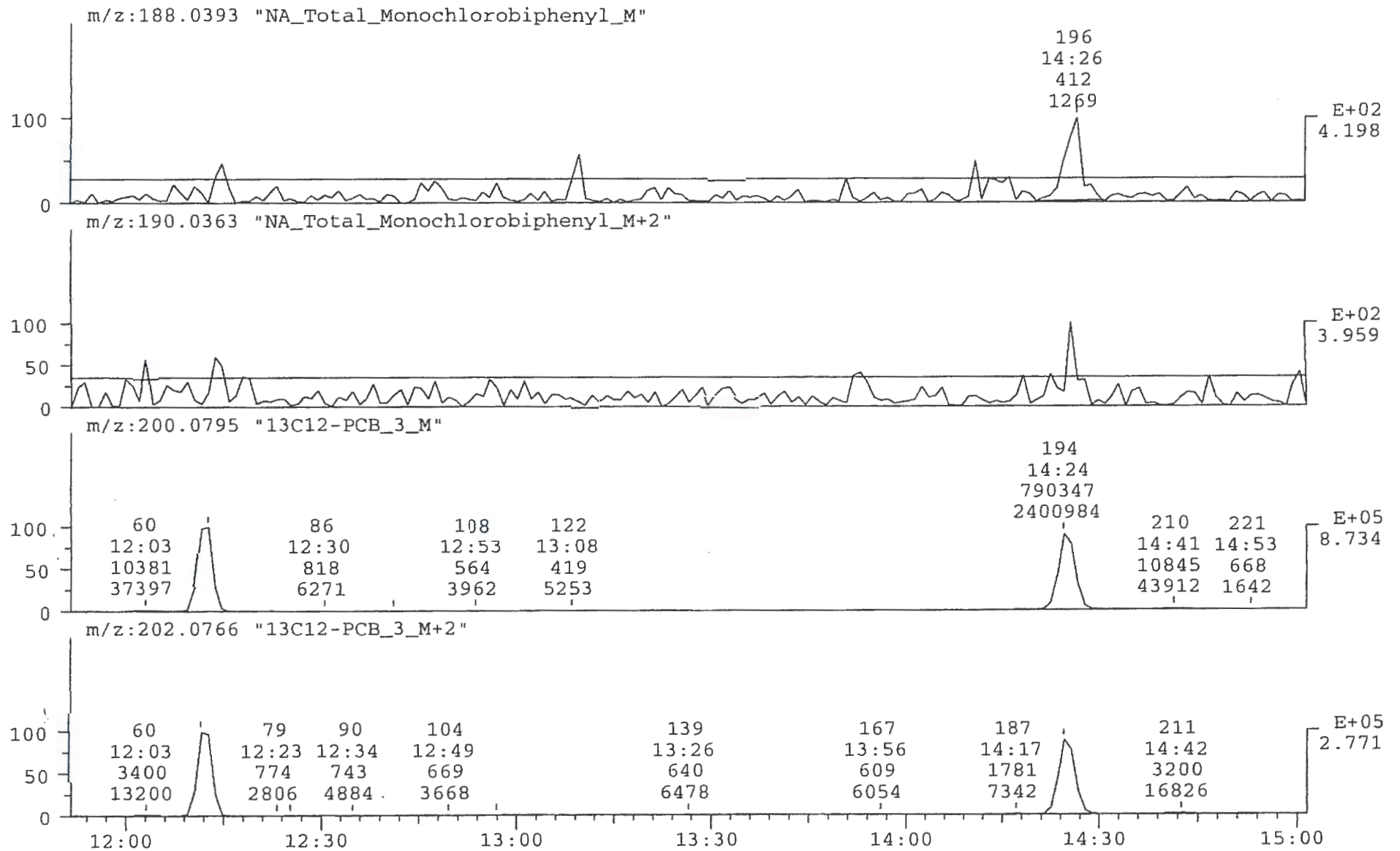
CHRO: a07030733 08-Mar-07 Elapse: 56:09 2554
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2 > 2602 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

Inorg 3.1707
Calc Dr 3.1907
QC BYW 3/19/07

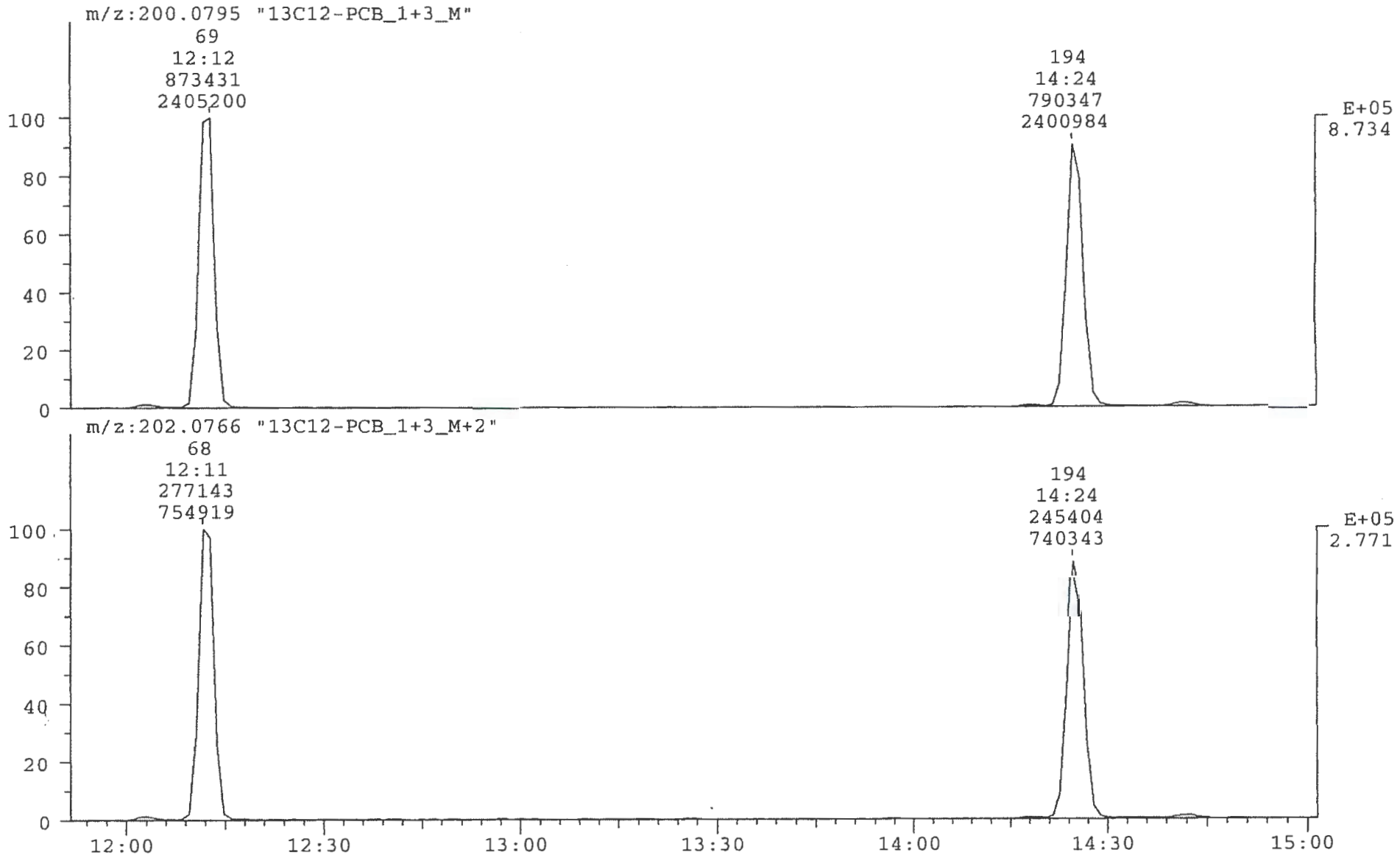


2303

```
CHRO:  a07030733                              08-Mar-07   Elapse:  13:26.5      139
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   49 > 229            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

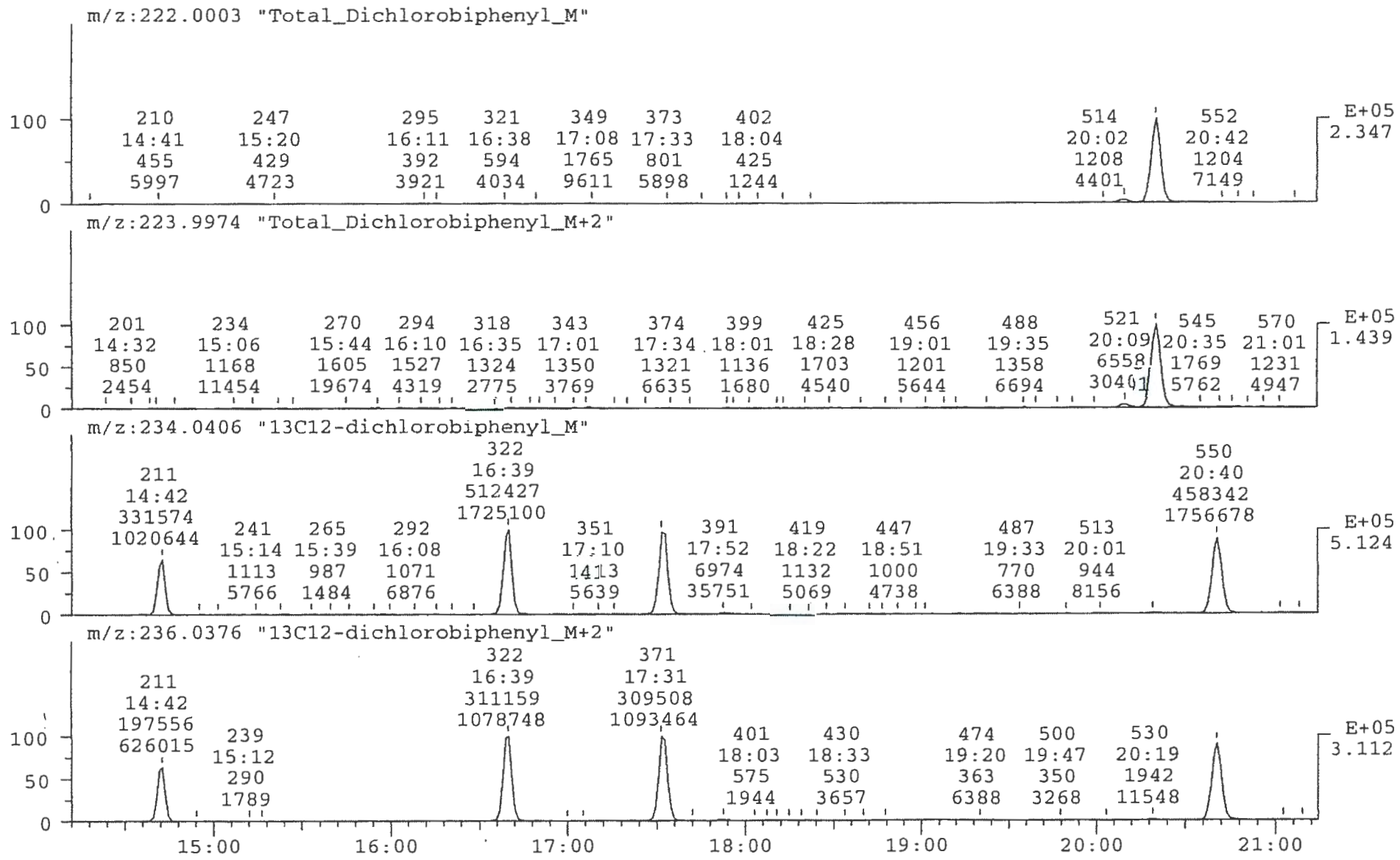


```
CHRO:  a07030733                                08-Mar-07   Elapse:  13:26.5      139
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   49 > 229              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



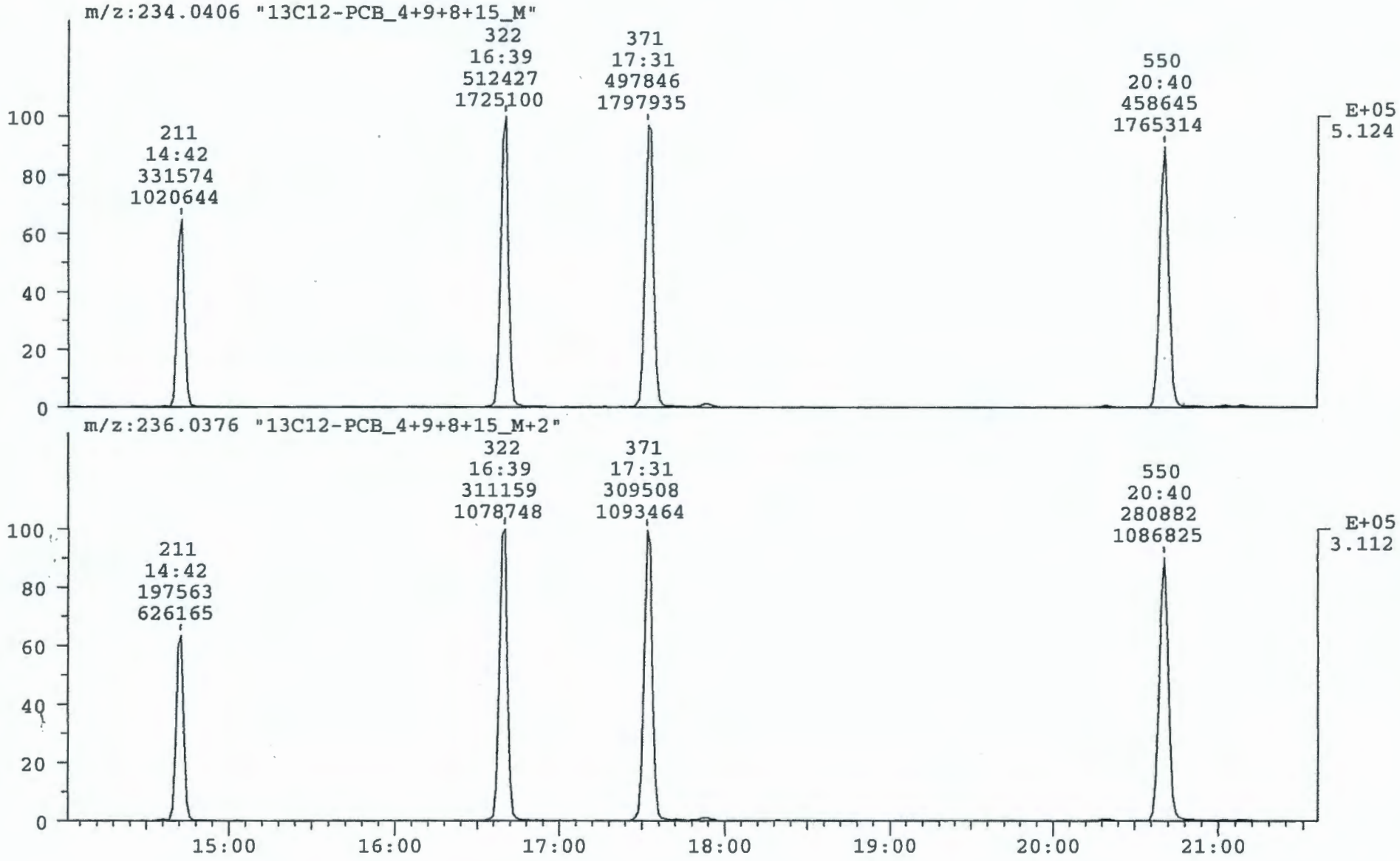
2305

```
CHRO:  a07030733                                08-Mar-07   Elapse:  17:43.1      382
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   182 > 582             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



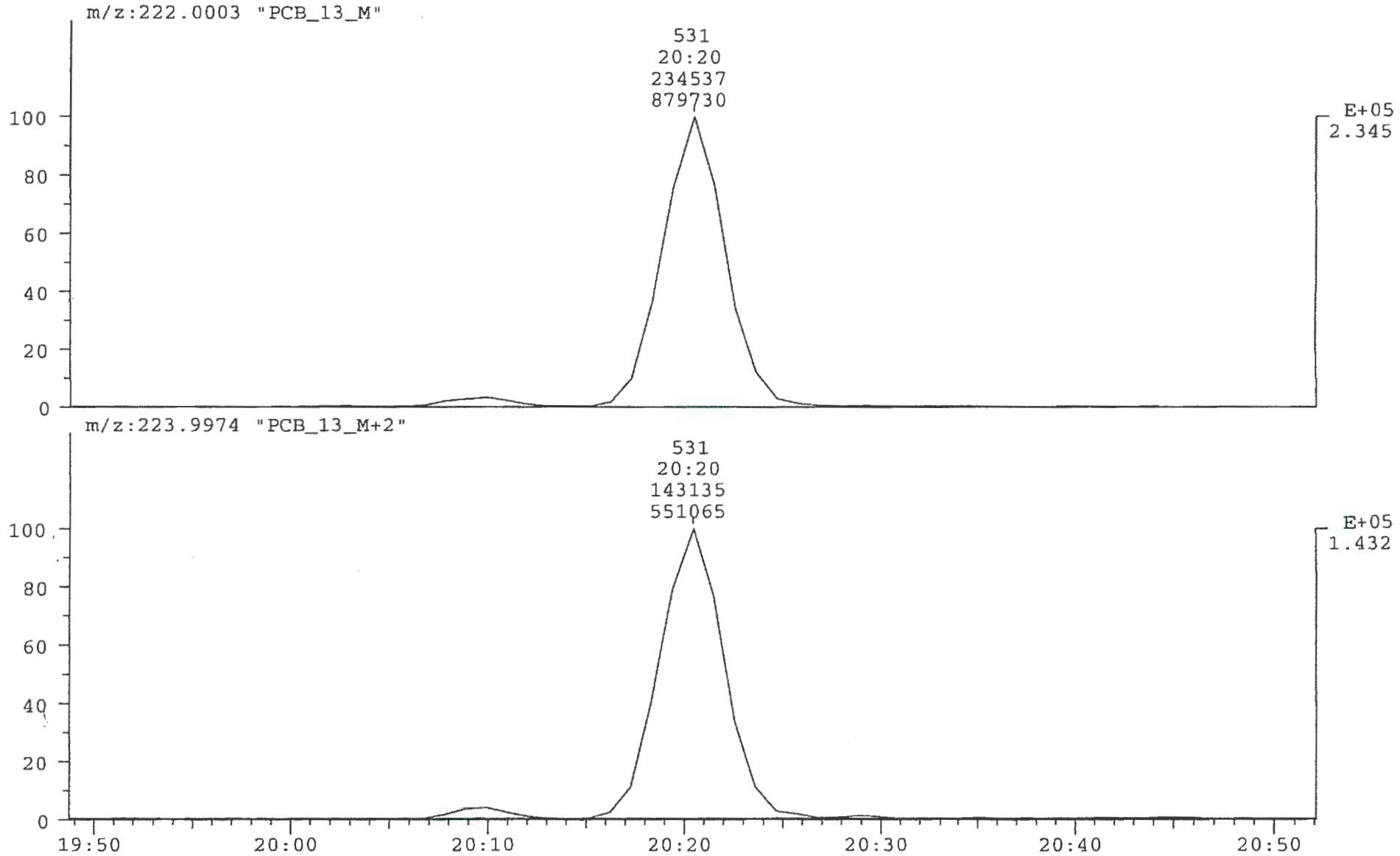
2306

CHRO: a07030733 08-Mar-07 Elapse: 17:43.1 382
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 172 > 602 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



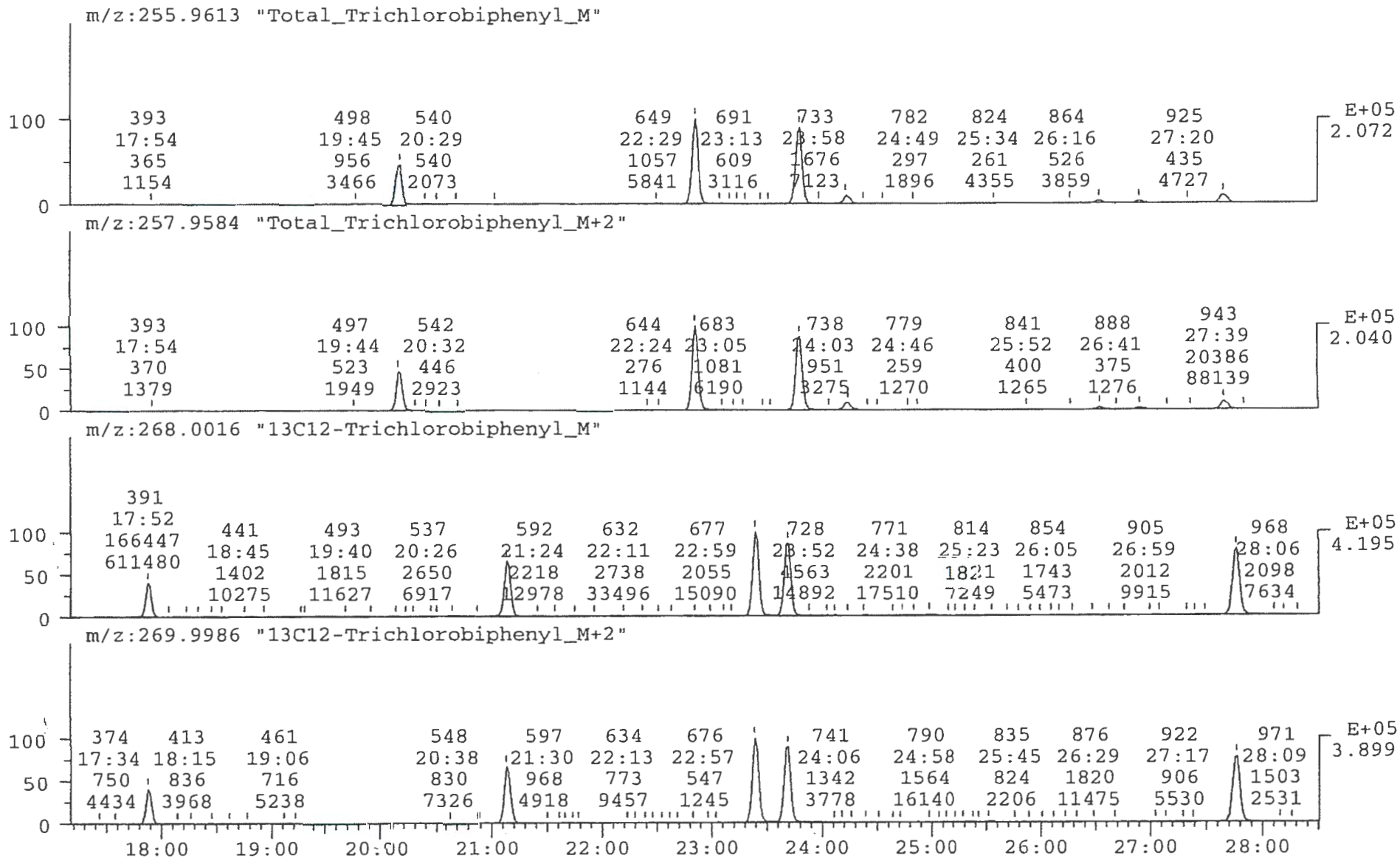
2307

```
CHRO:  a07030733                                08-Mar-07   Elapse:  20:20.4      531
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   501 > 561             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

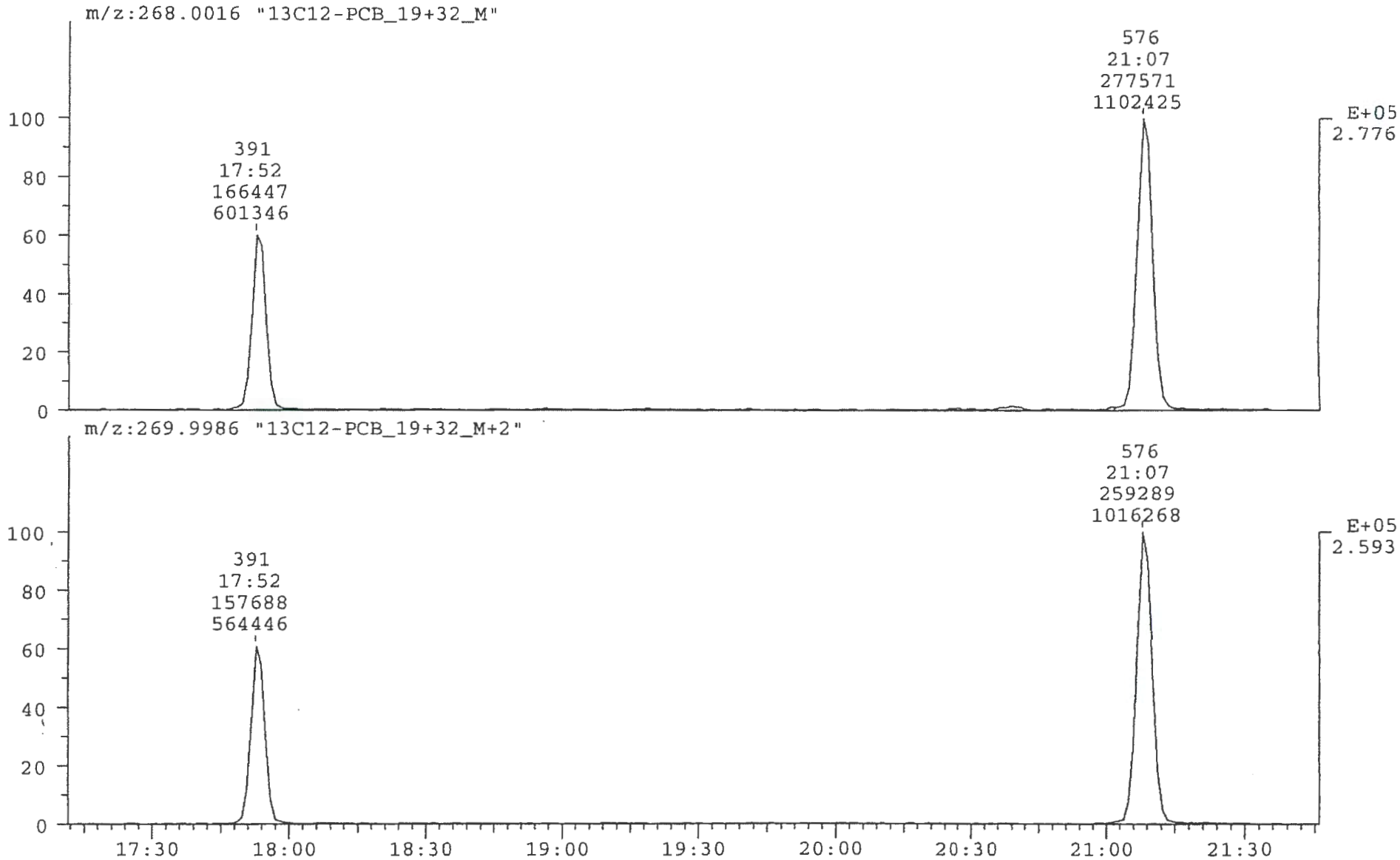


2308

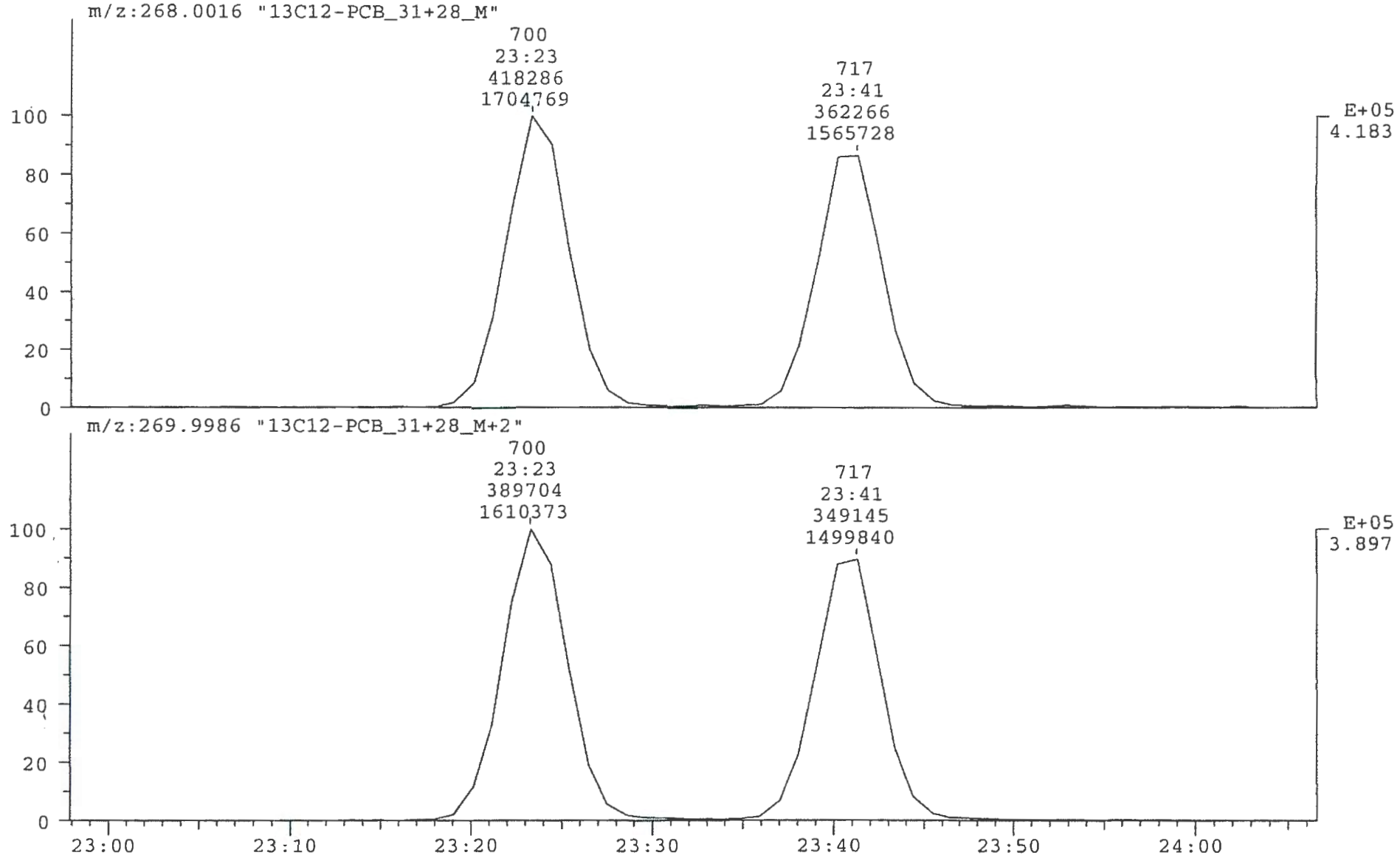
CHRO: a07030733 08-Mar-07 Elapse: 22:52.6 671
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



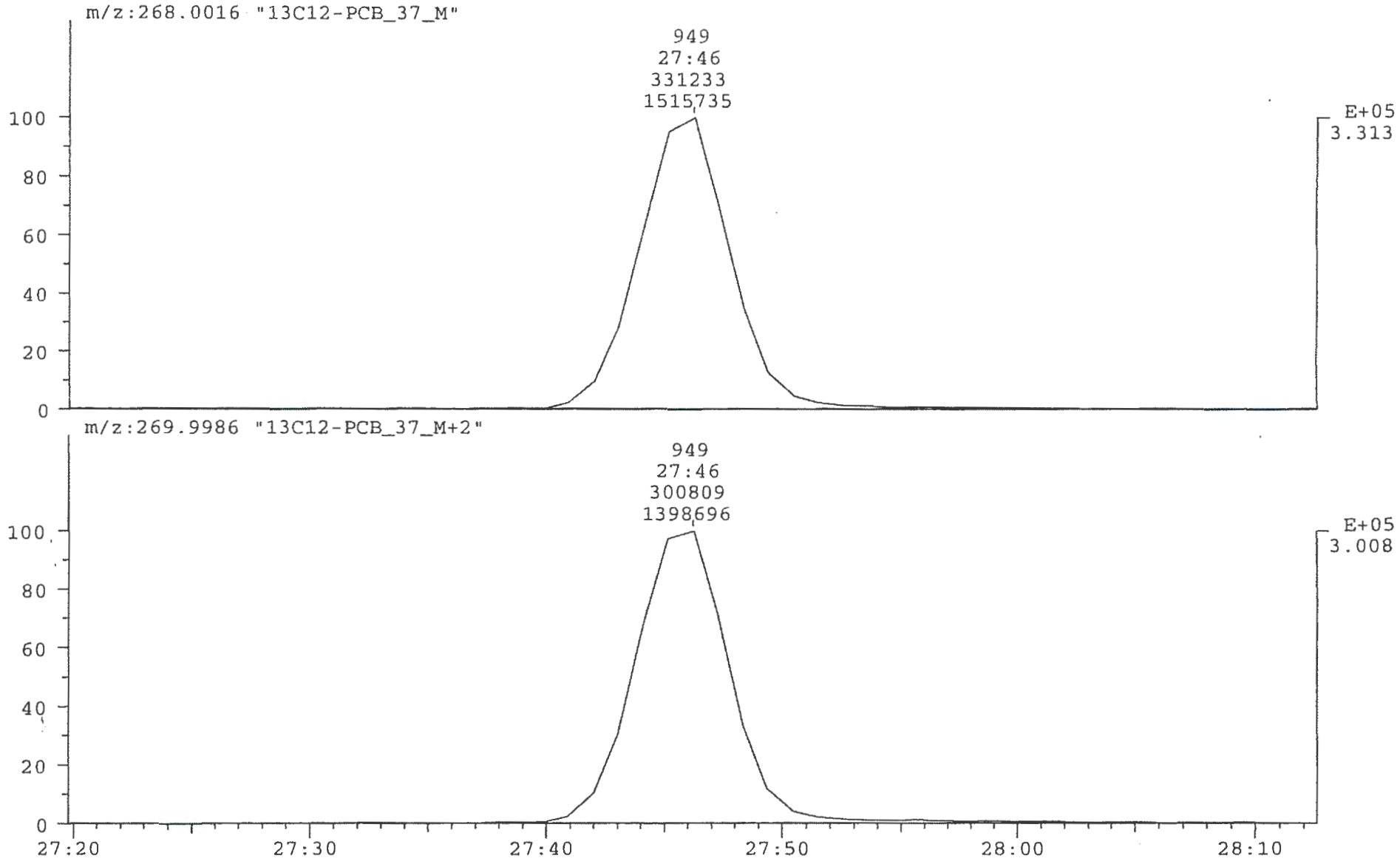
```
CHRO:  a07030733                                08-Mar-07   Elapse:  19:18.1      472
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   352 > 612             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



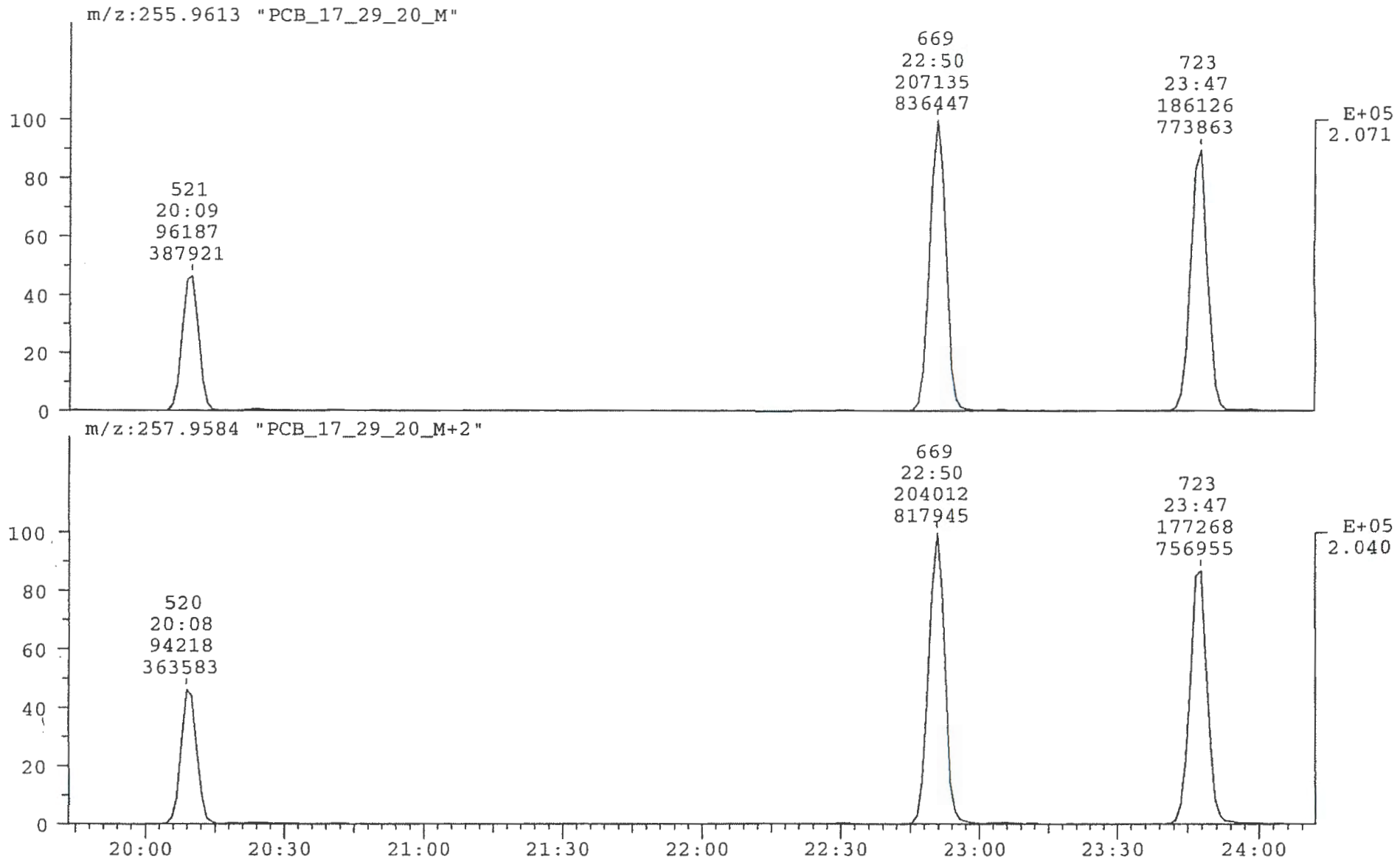
```
CHRO:  a07030733                                08-Mar-07   Elapse:  23:24.3      701
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   676 > 741             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



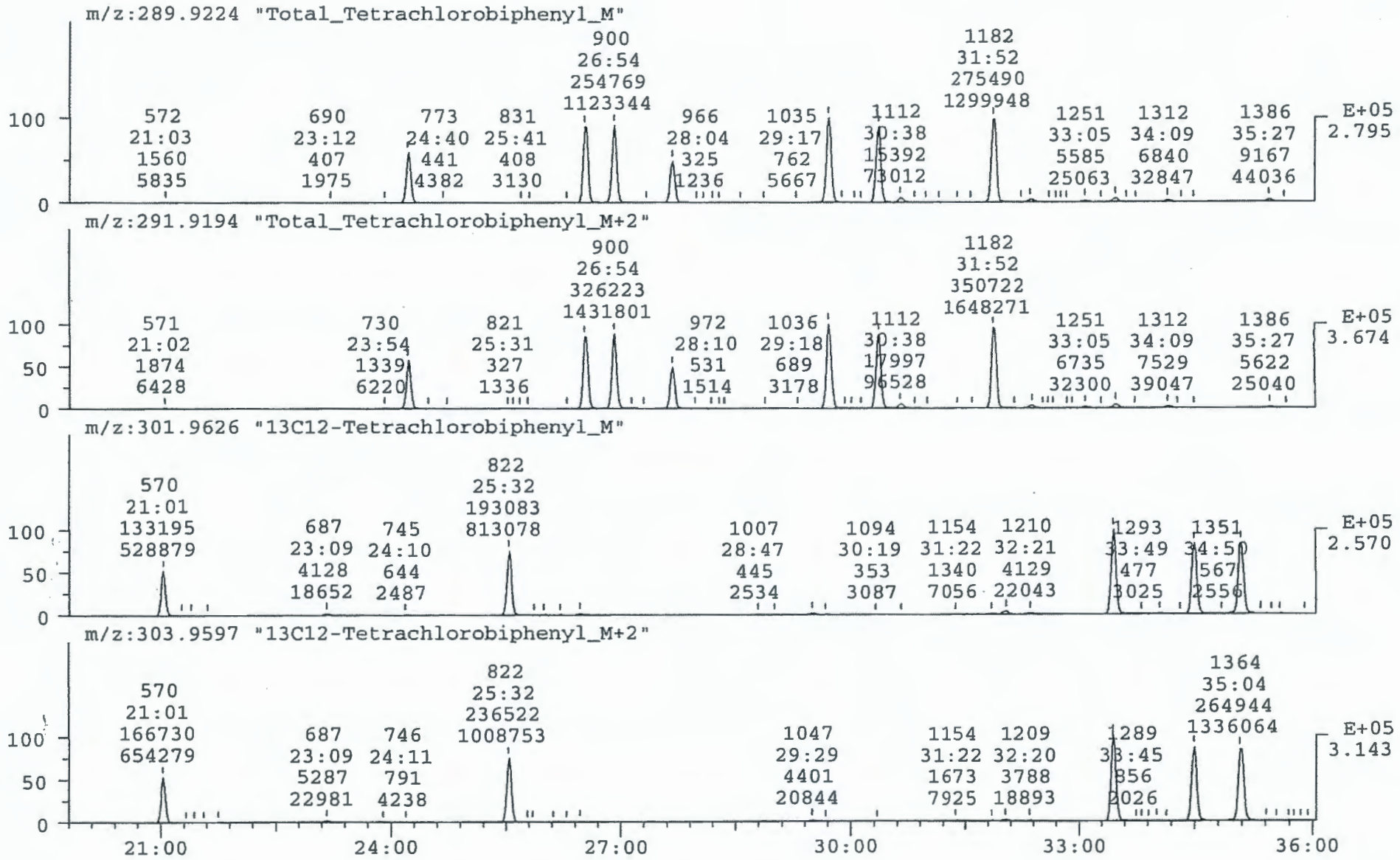
```
CHRO:  a07030733                                08-Mar-07   Elapse:  27:46.2      949
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   924 > 974             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



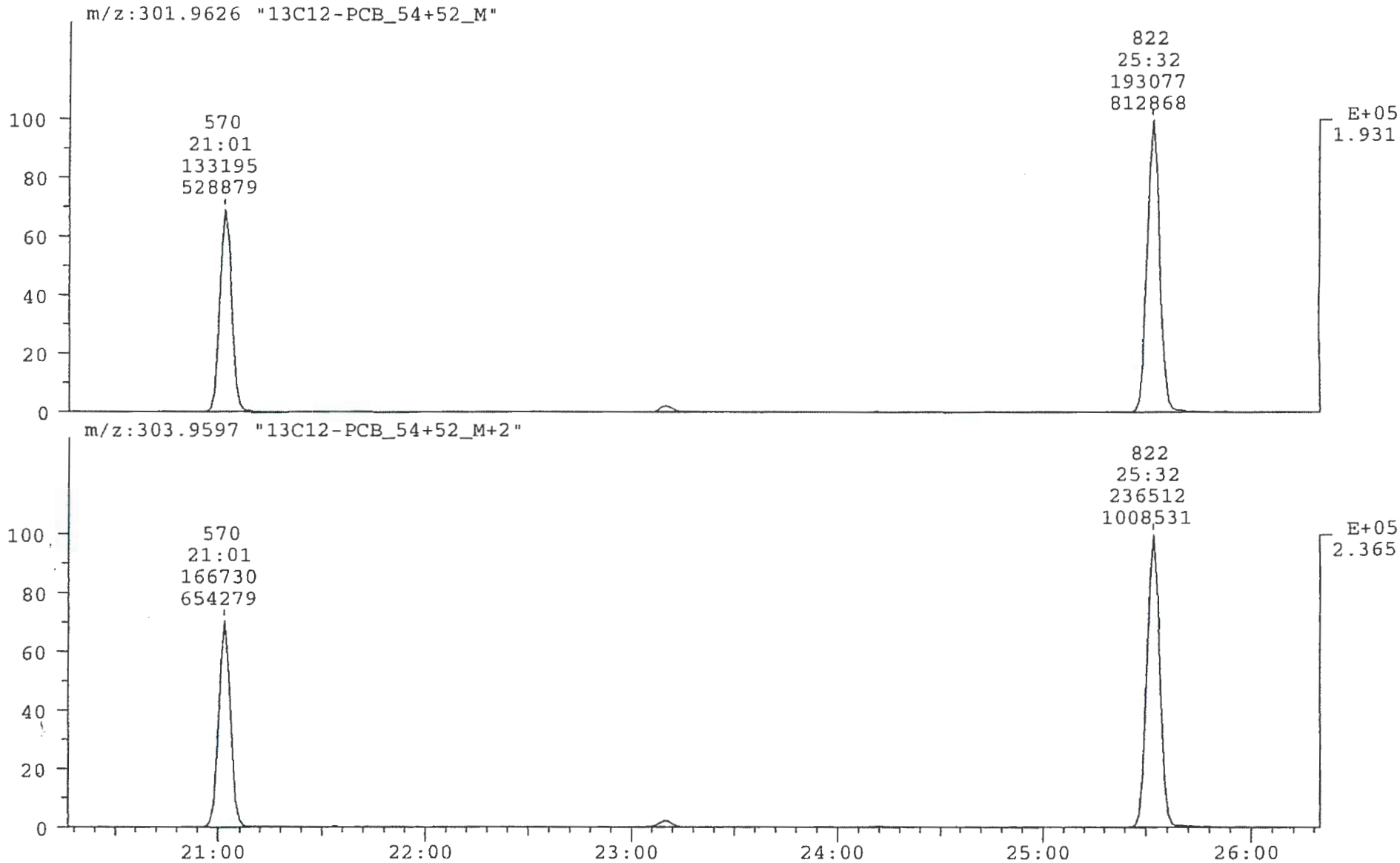
```
CHRO:  a07030733                                08-Mar-07   Elapse:  22:00.7      626
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   496 > 746             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



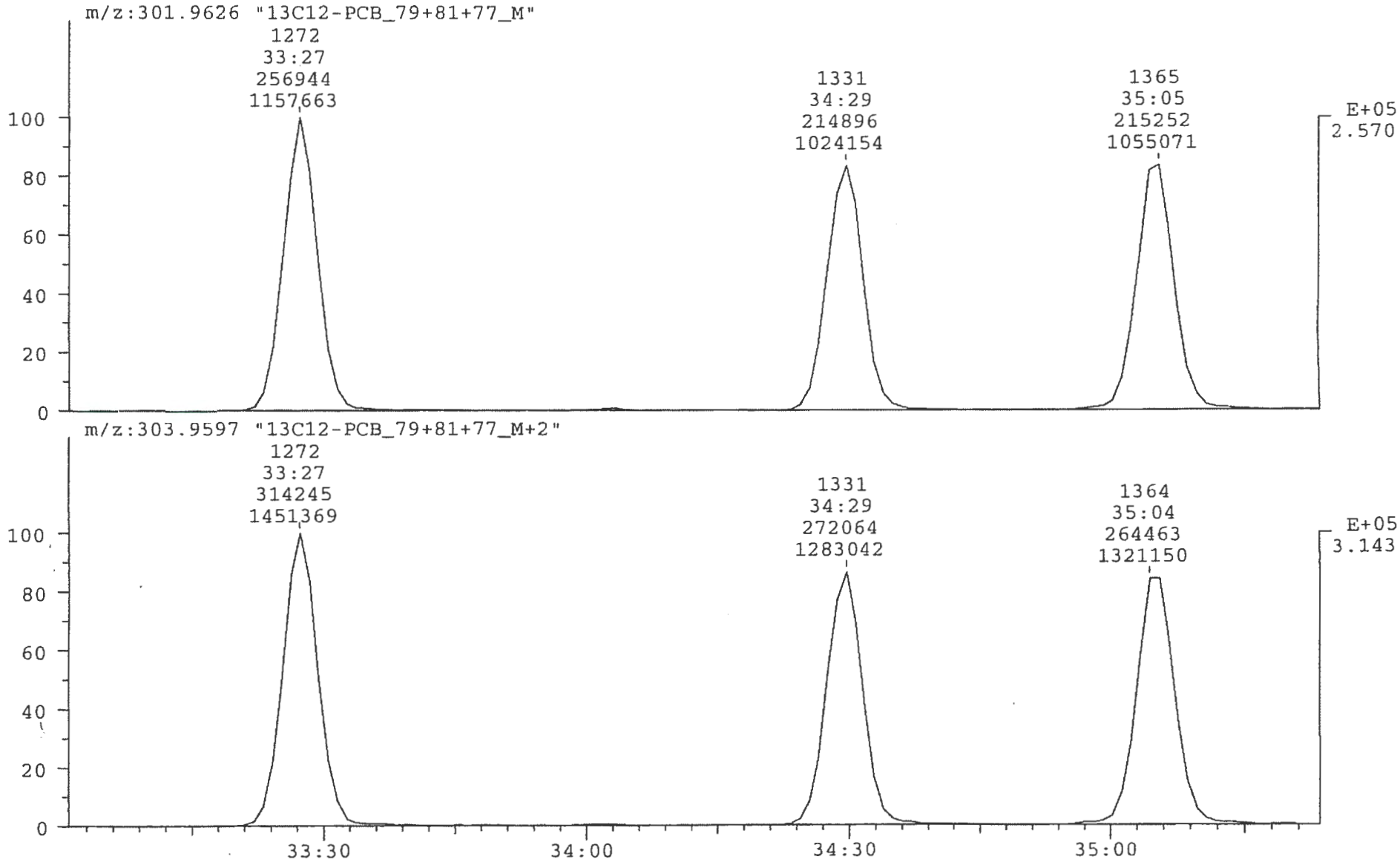
CHRO: a07030733 08-Mar-07 Elapse: 27:54.7 957
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



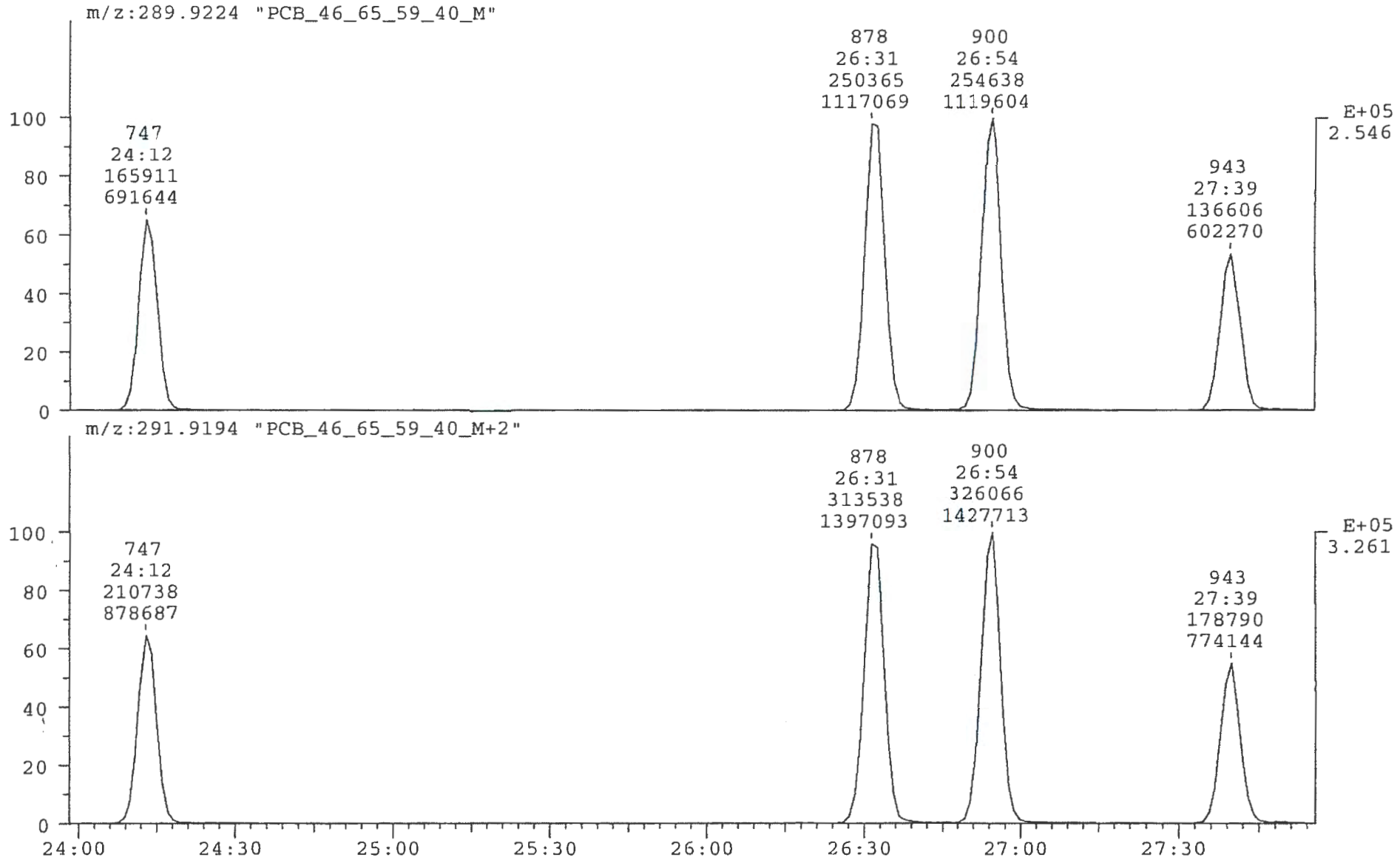
```
CHRO:  a07030733                                08-Mar-07  Elapse:  23:20.1      697
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   527 > 867           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



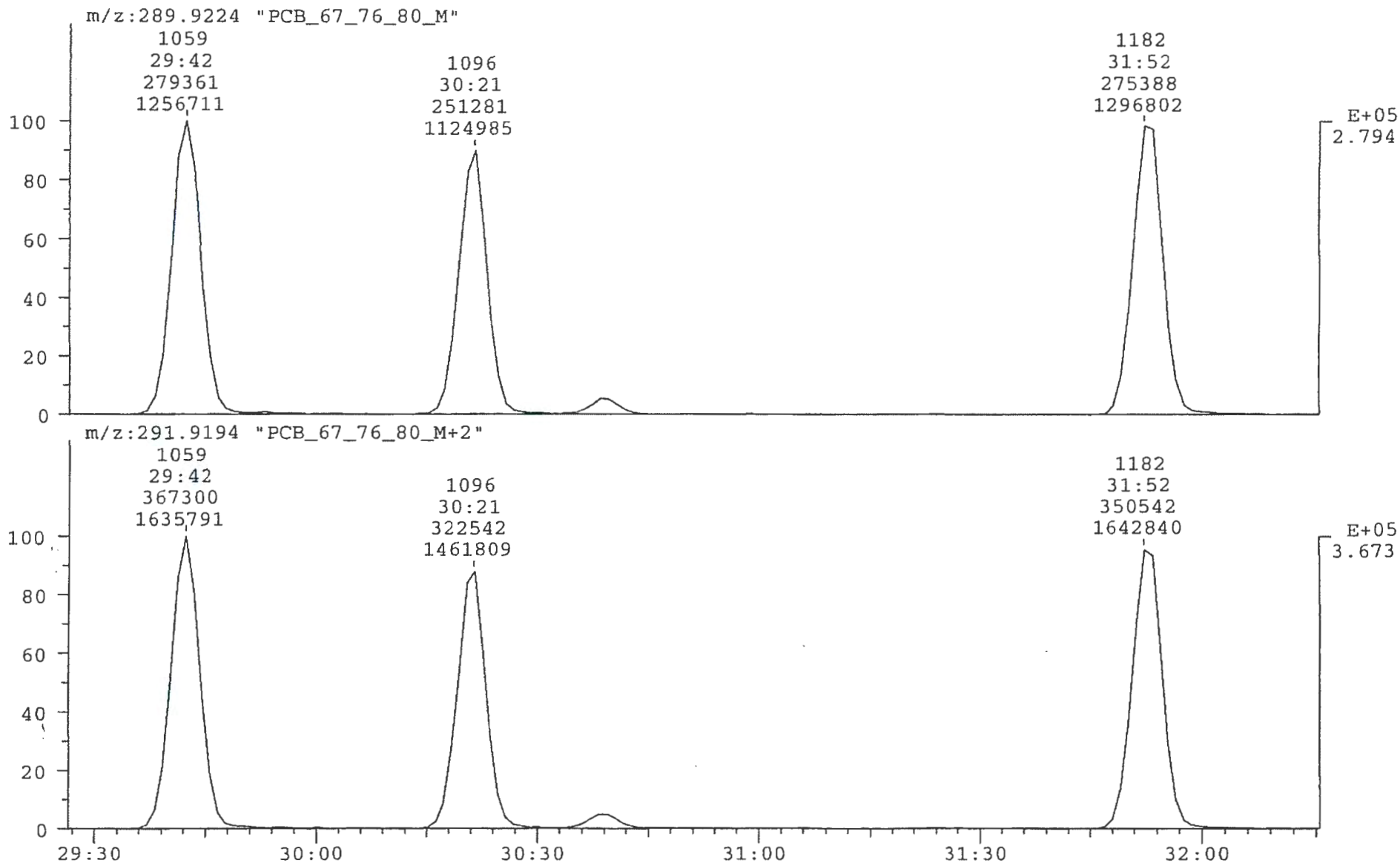
```
CHRO:  a07030733                                08-Mar-07  Elapse:  34:14      1317
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1247 > 1382          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



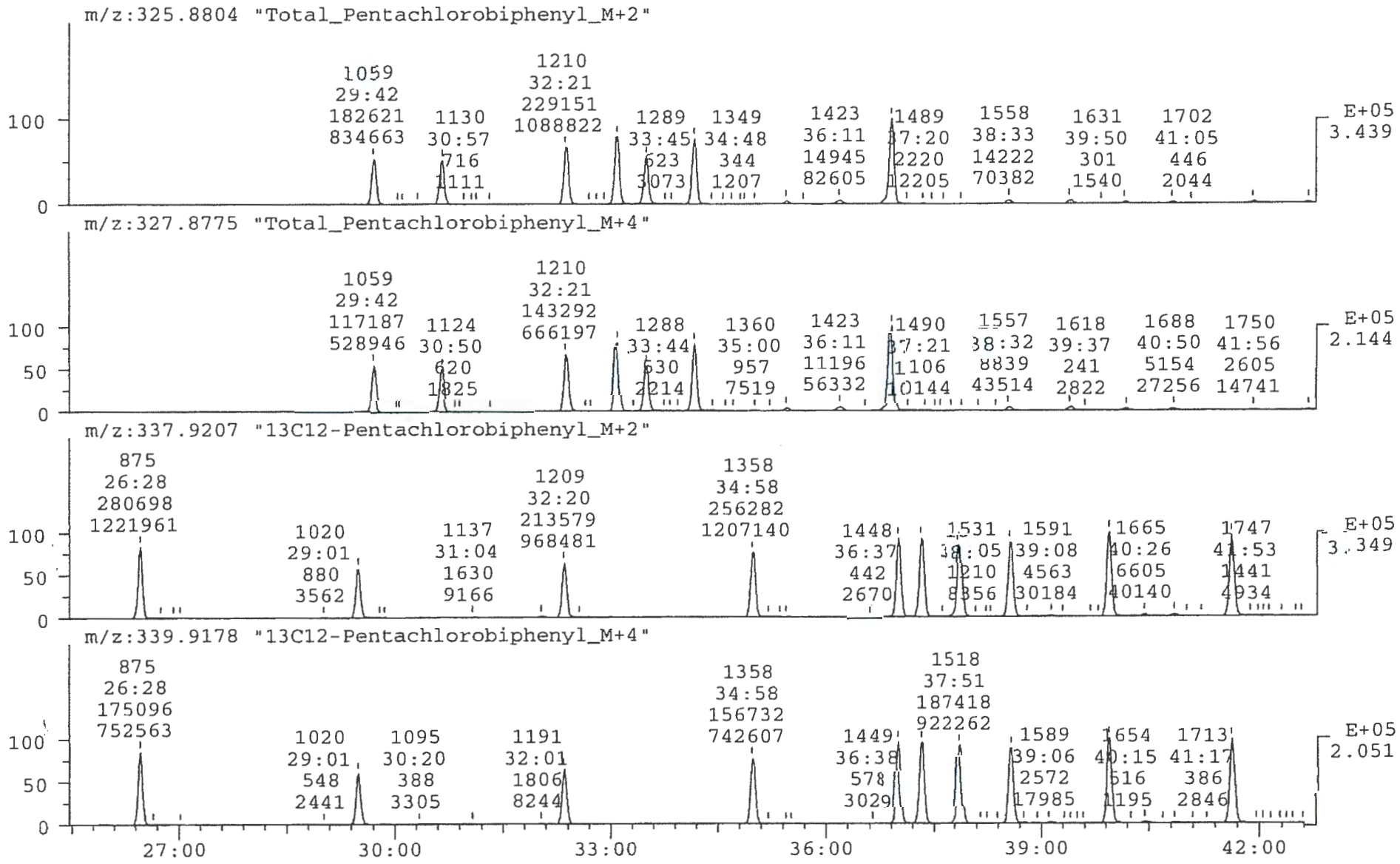
```
CHRO:  a07030733                                08-Mar-07   Elapse:  25:59.5      848
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   733 > 958             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



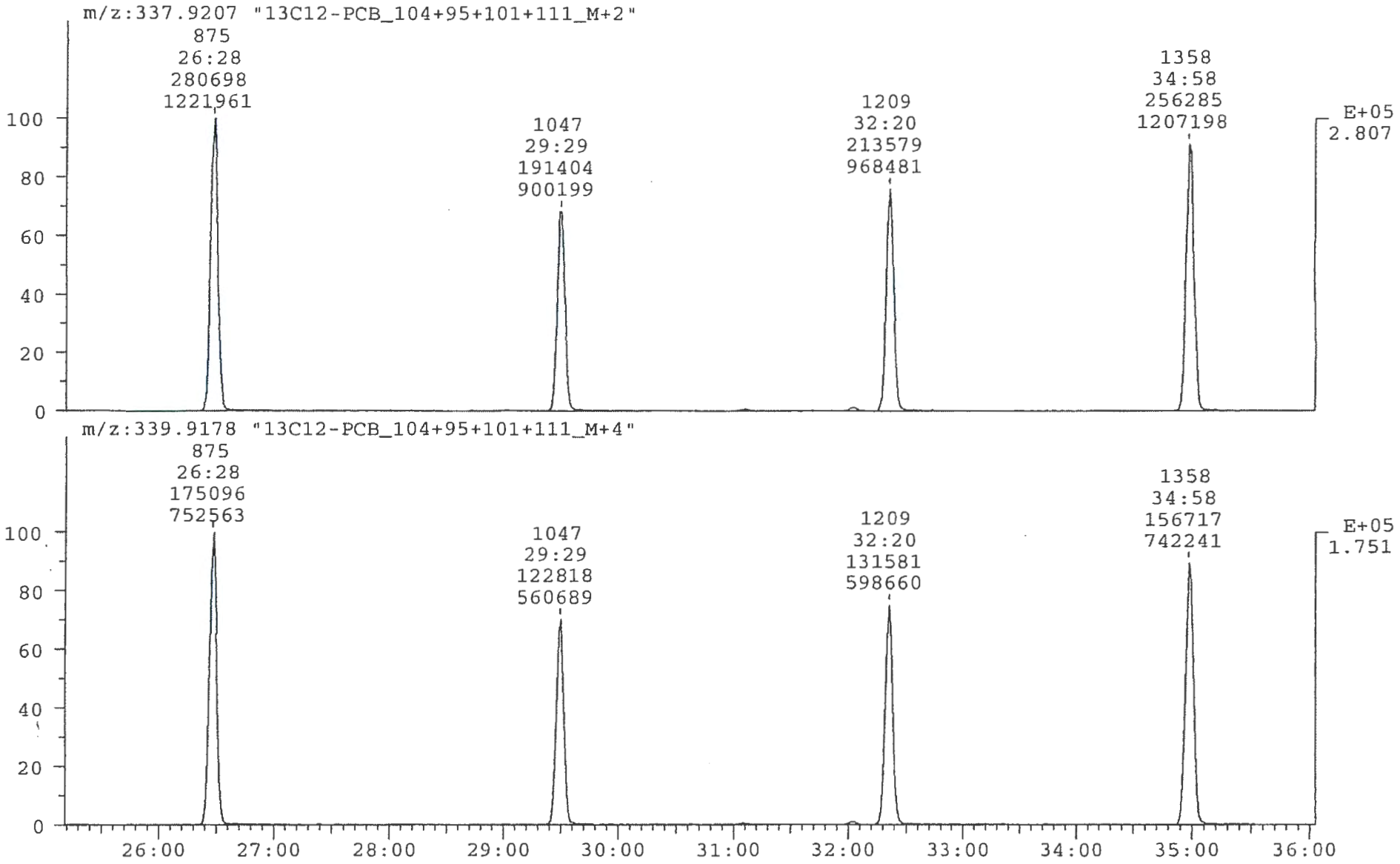
```
CHRO:  a07030733                              08-Mar-07   Elapse:  30:50      1124
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1044 > 1204         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



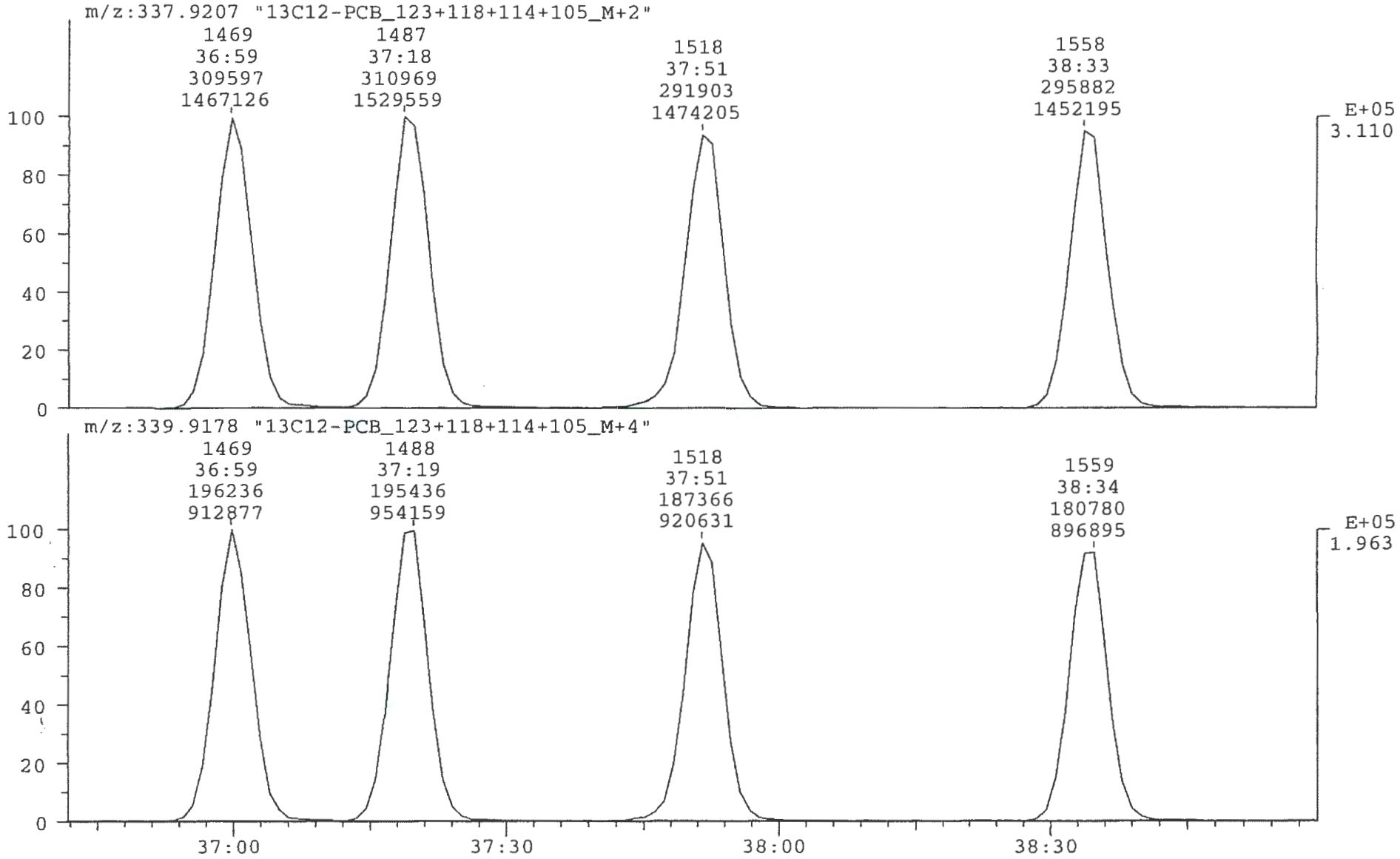
```
CHRO:  a07030733                                08-Mar-07   Elapse:  34:08      1311
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   818 > 1799            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030733 08-Mar-07 Elapse: 30:37 1111
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 802 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

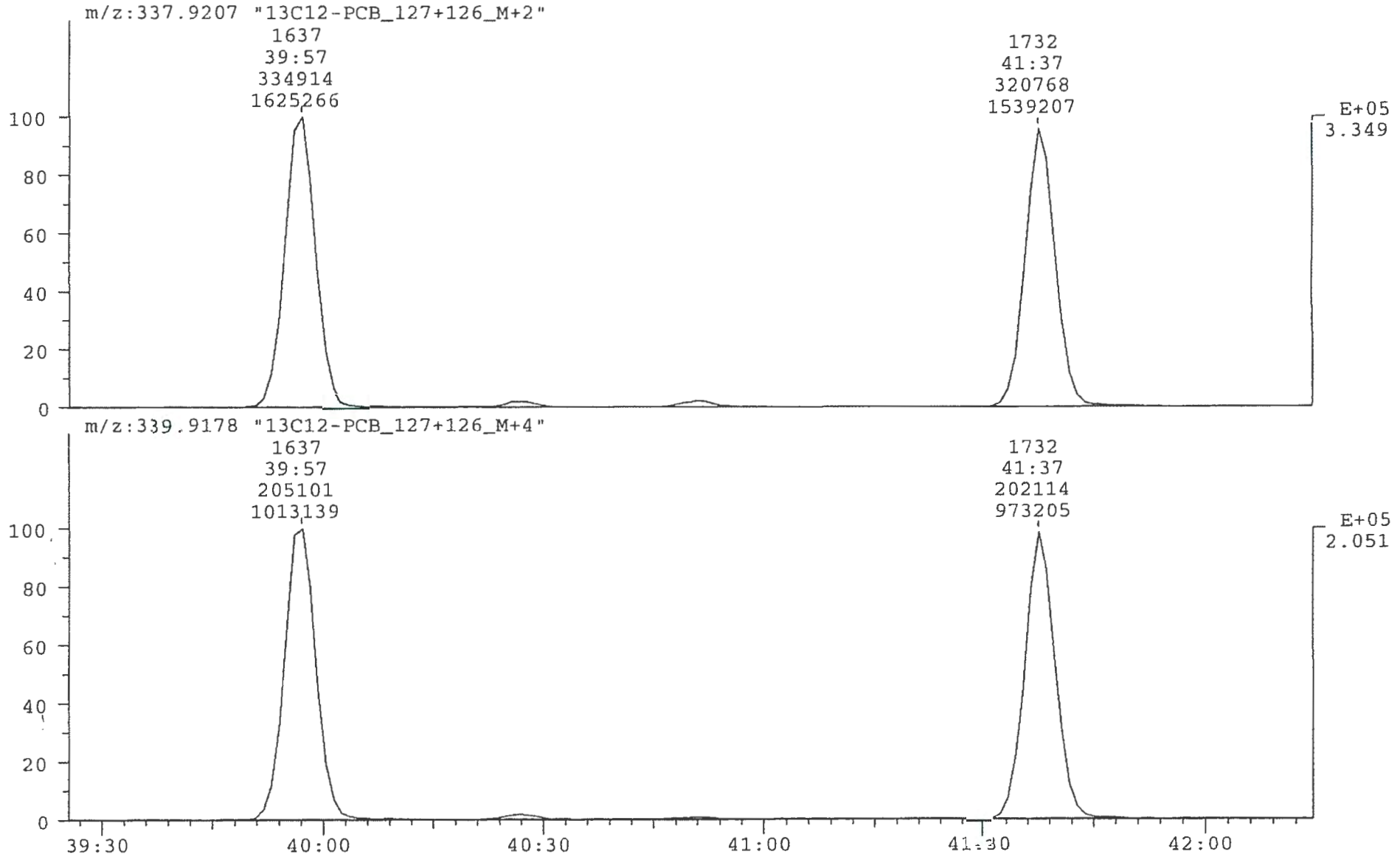


```
CHRO:  a07030733                                08-Mar-07   Elapse:  37:50      1517
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1452 > 1582           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```

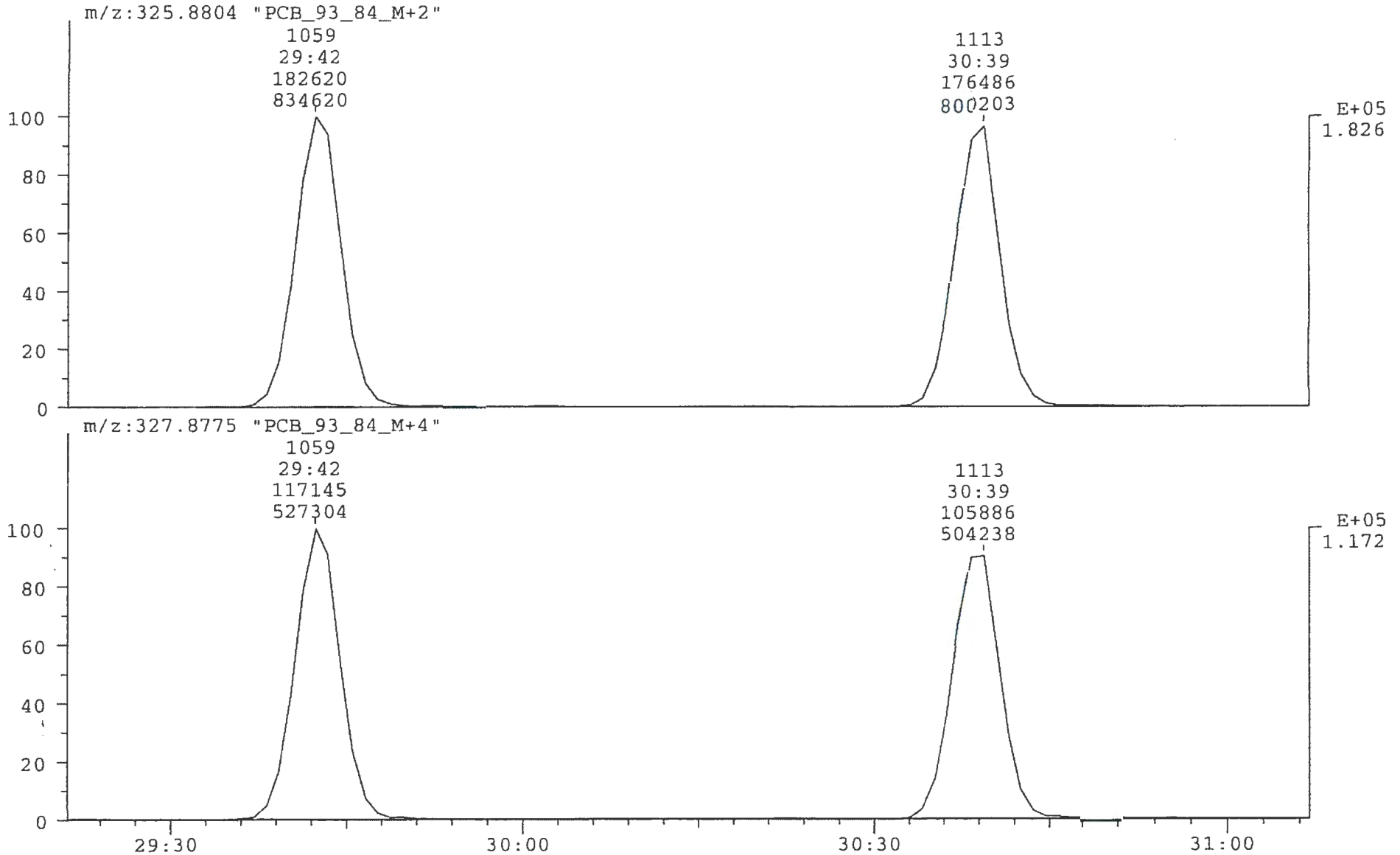


2321

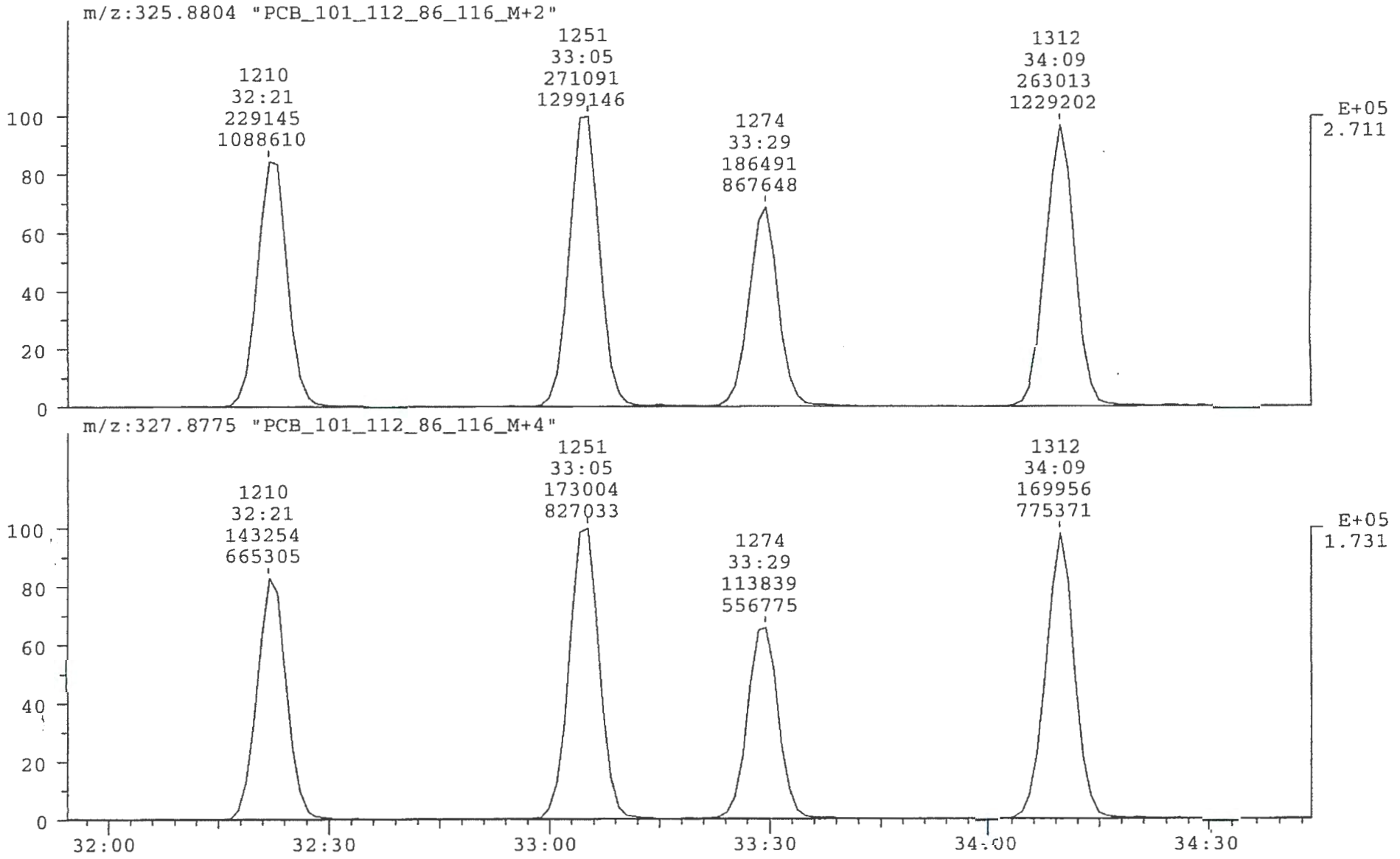
CHRO: a07030733 08-Mar-07 Elapse: 40:49 1687
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1607 > 1767 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



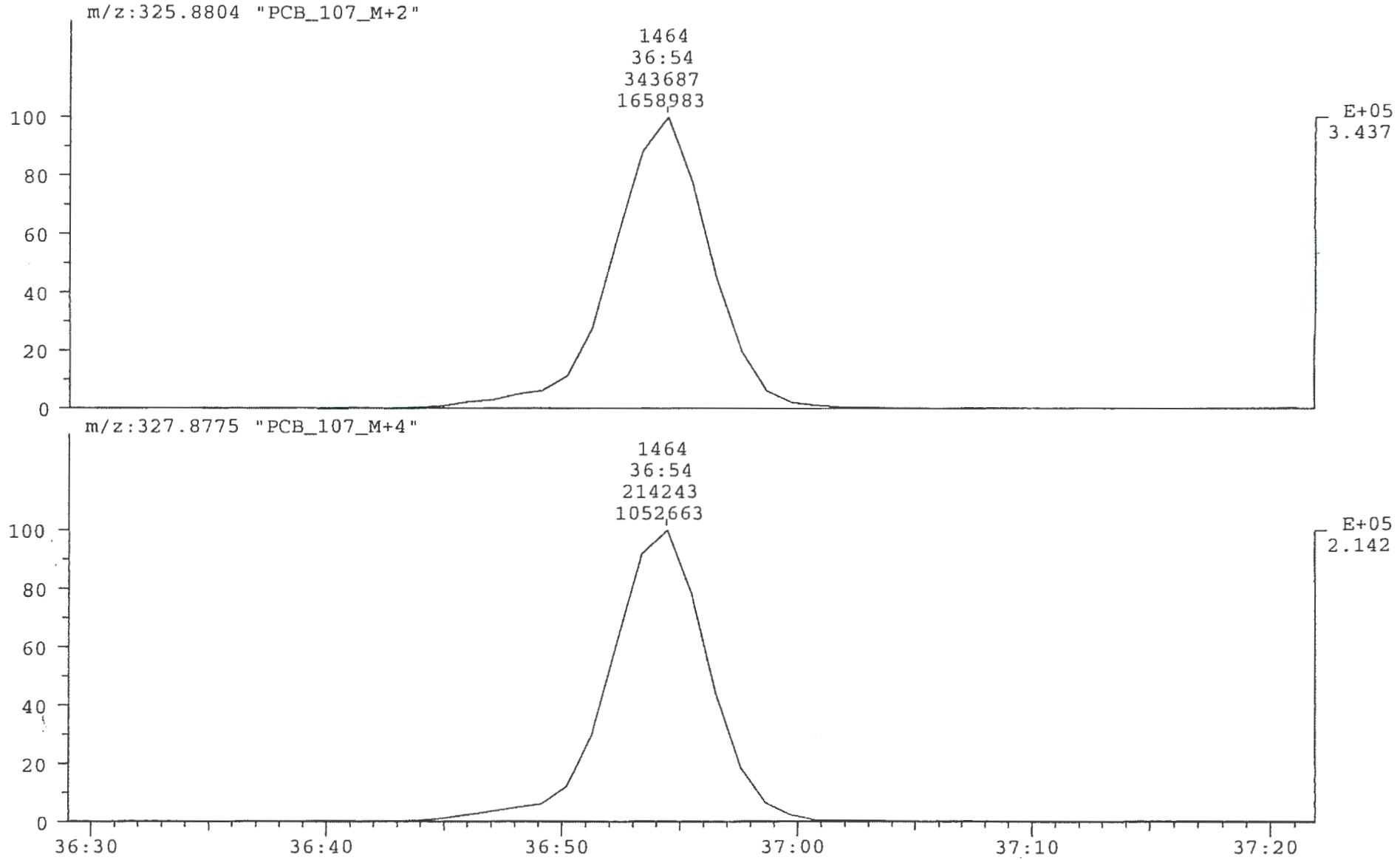
```
CHRO:  a07030733                              08-Mar-07   Elapse:  30:14      1089
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   1039 > 1139         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



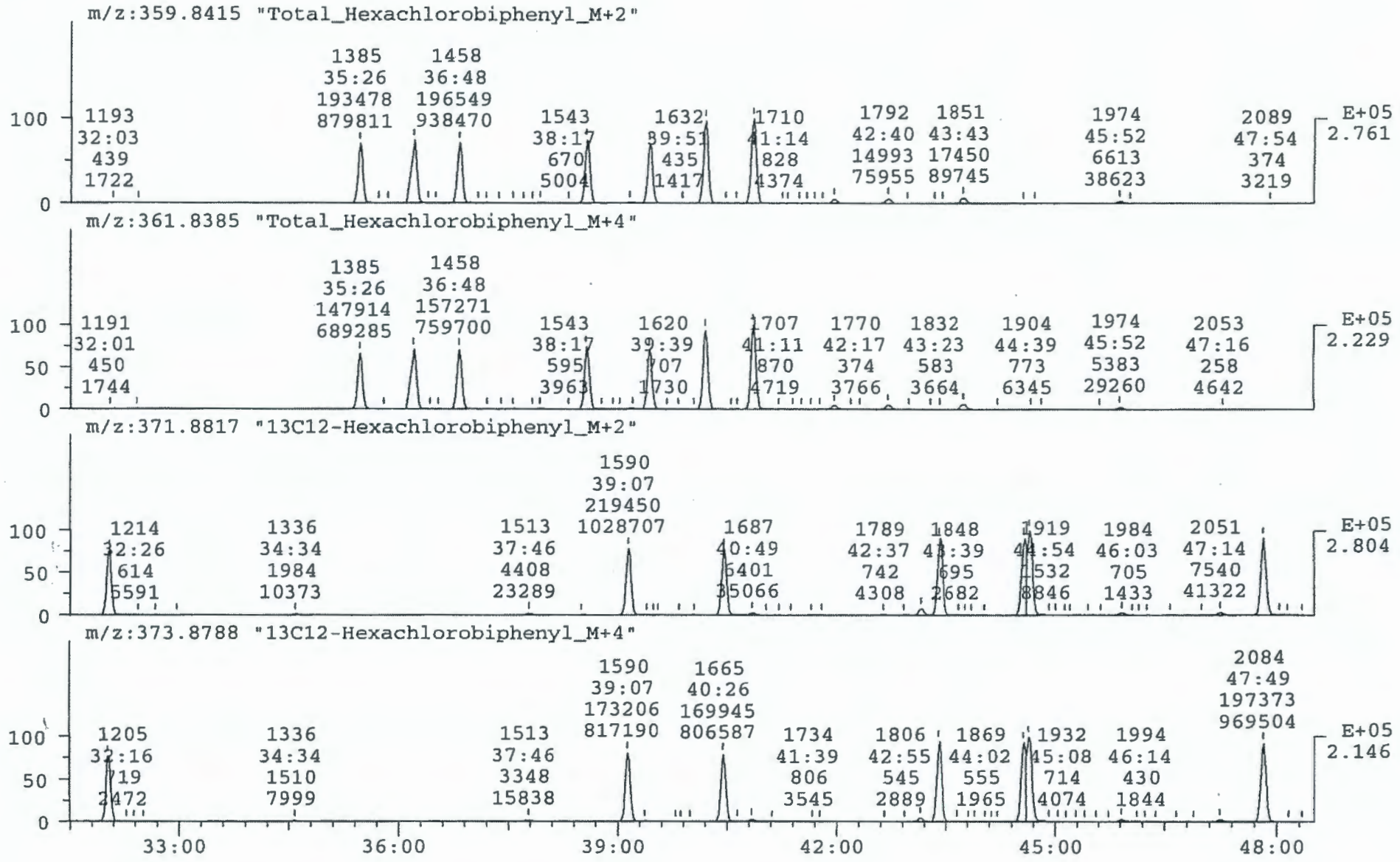
```
CHRO:  a07030733                              08-Mar-07   Elapse:  33:18      1264
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1184 > 1344         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



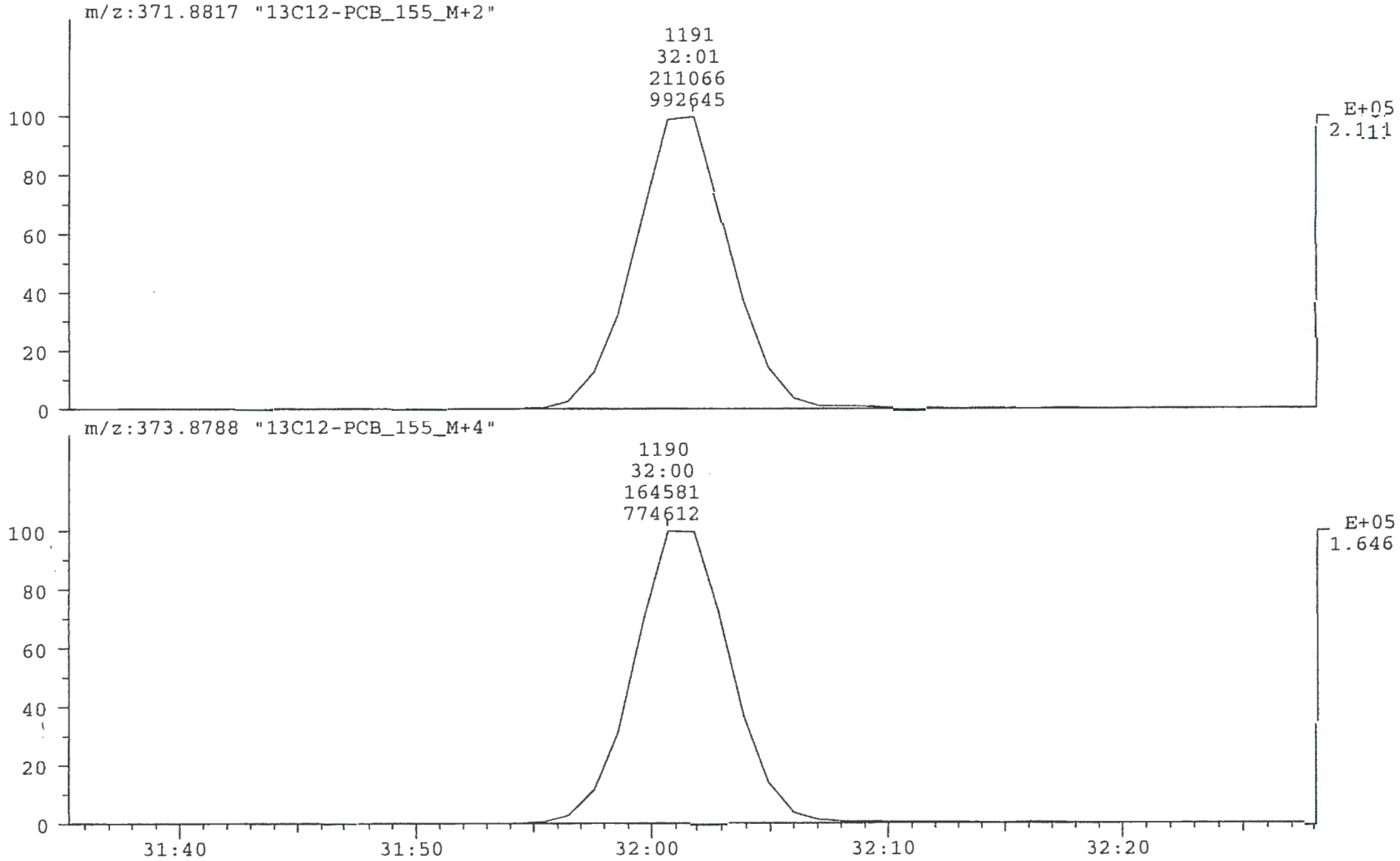
```
CHRO:  a07030733                              08-Mar-07   Elapse:  36:55      1465
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1440 > 1490         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



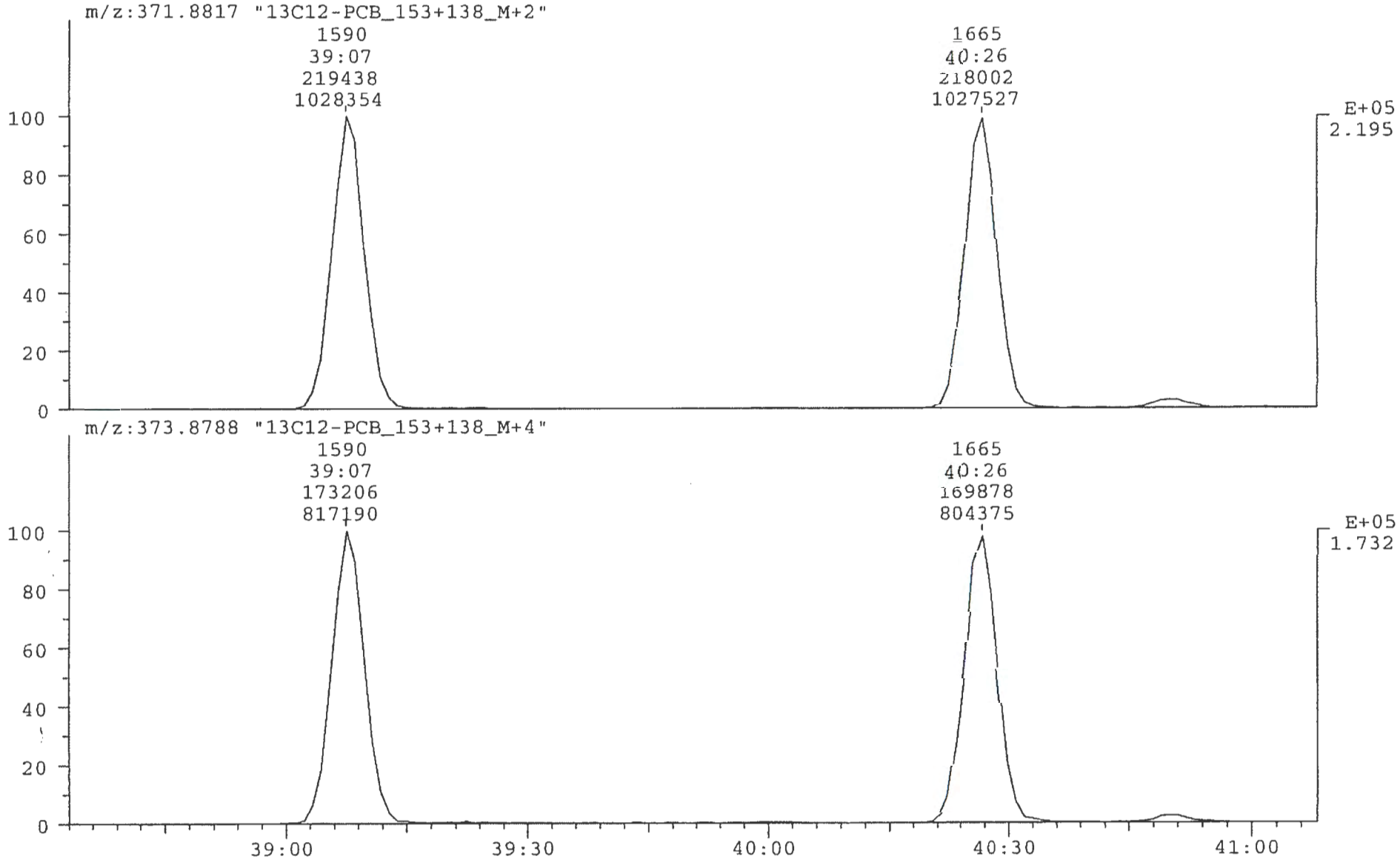
CHRO: a07030733 08-Mar-07 Elapse: 39:59 1639
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1160 > 2123 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



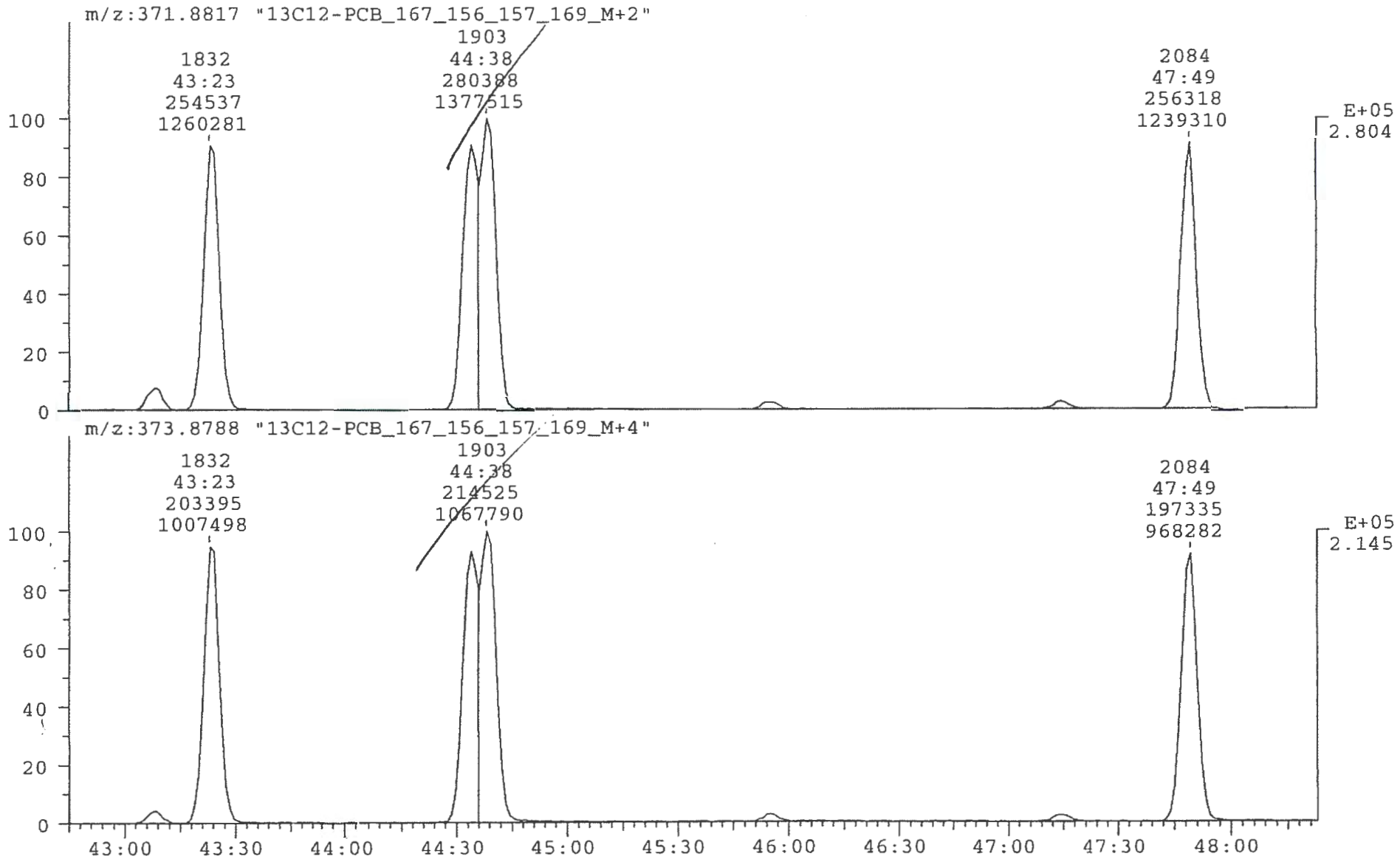
```
CHRO:  a07030733                              08-Mar-07   Elapse:  32:01      1191
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1166 > 1216          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



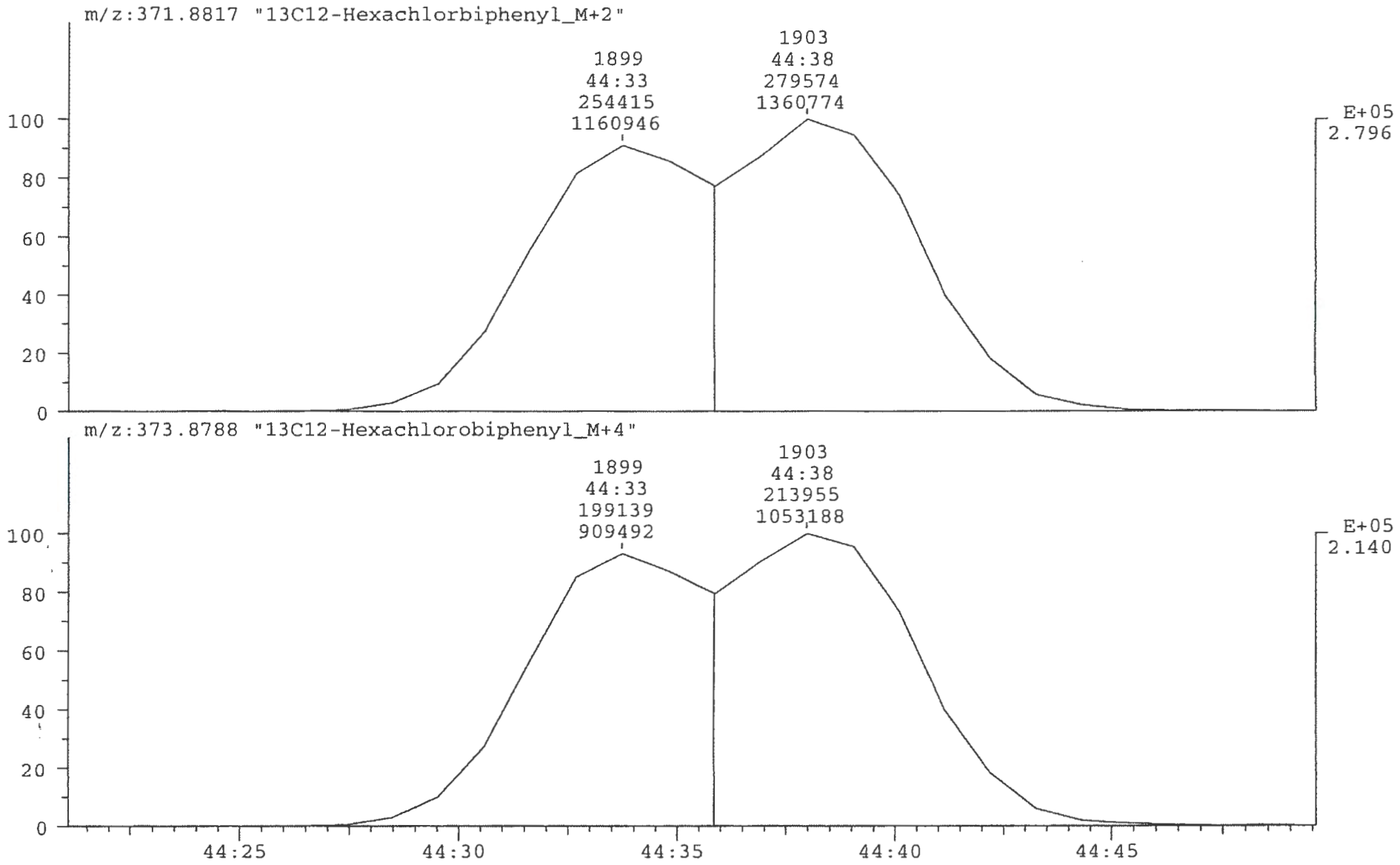
```
CHRO:  a07030733                                08-Mar-07  Elapse:  39:49      1630
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   1557 > 1704          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



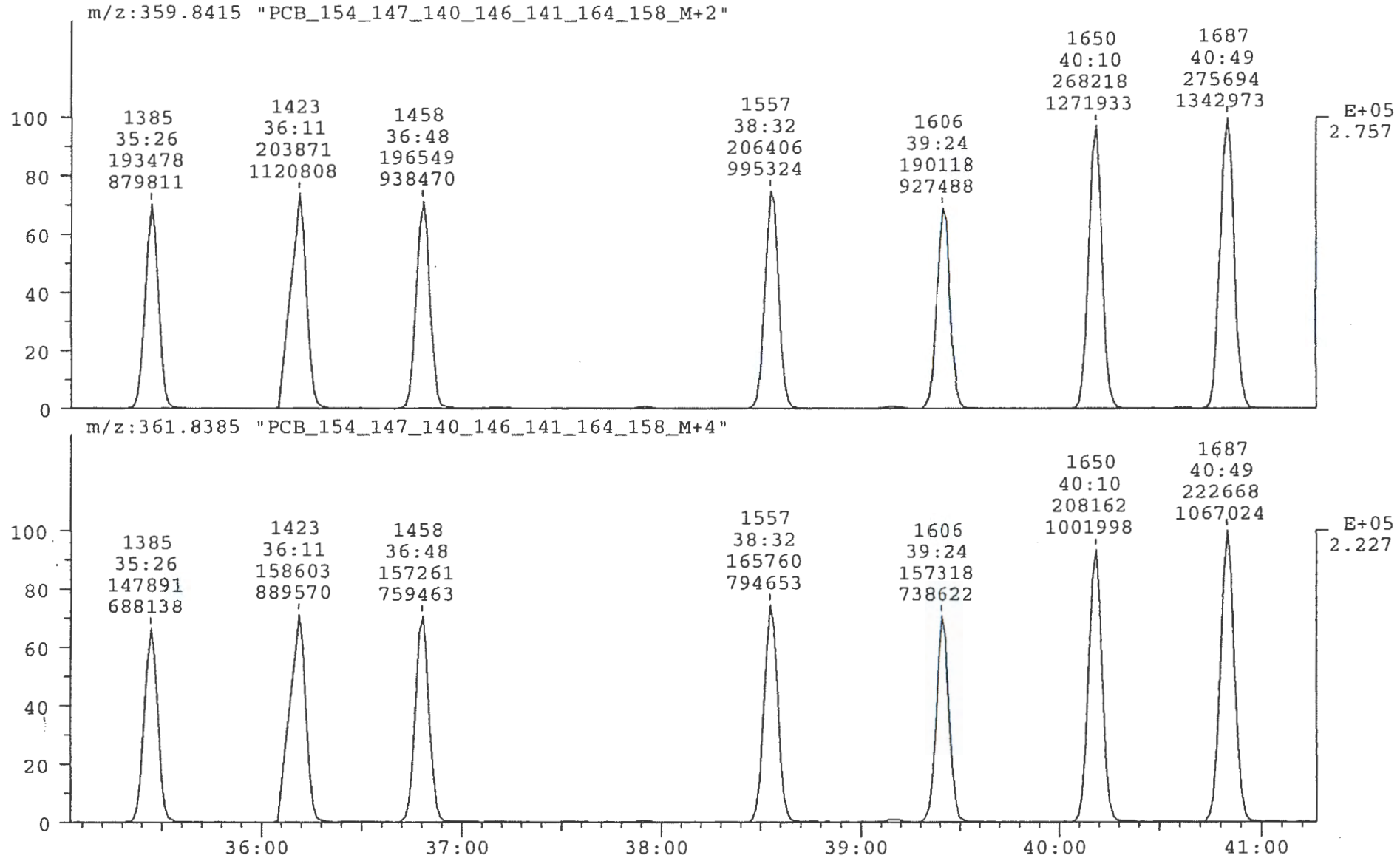
CHRO: a07030733 08-Mar-07 Elapse: 45:39 1961
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1796 > 2116 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



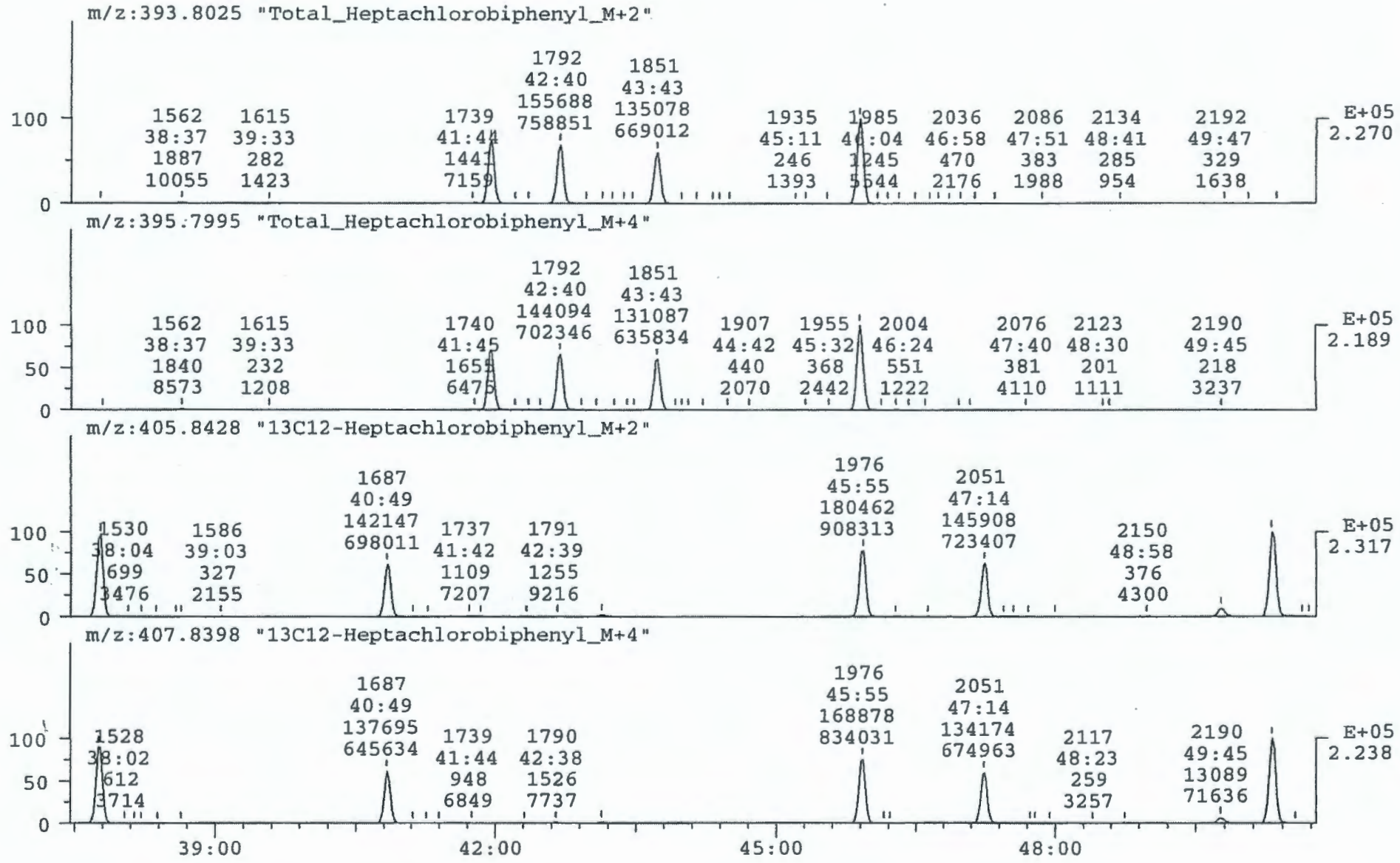
CHRO: a07030733 08-Mar-07 Elapse: 56:11 2555
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1887 > 1914 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



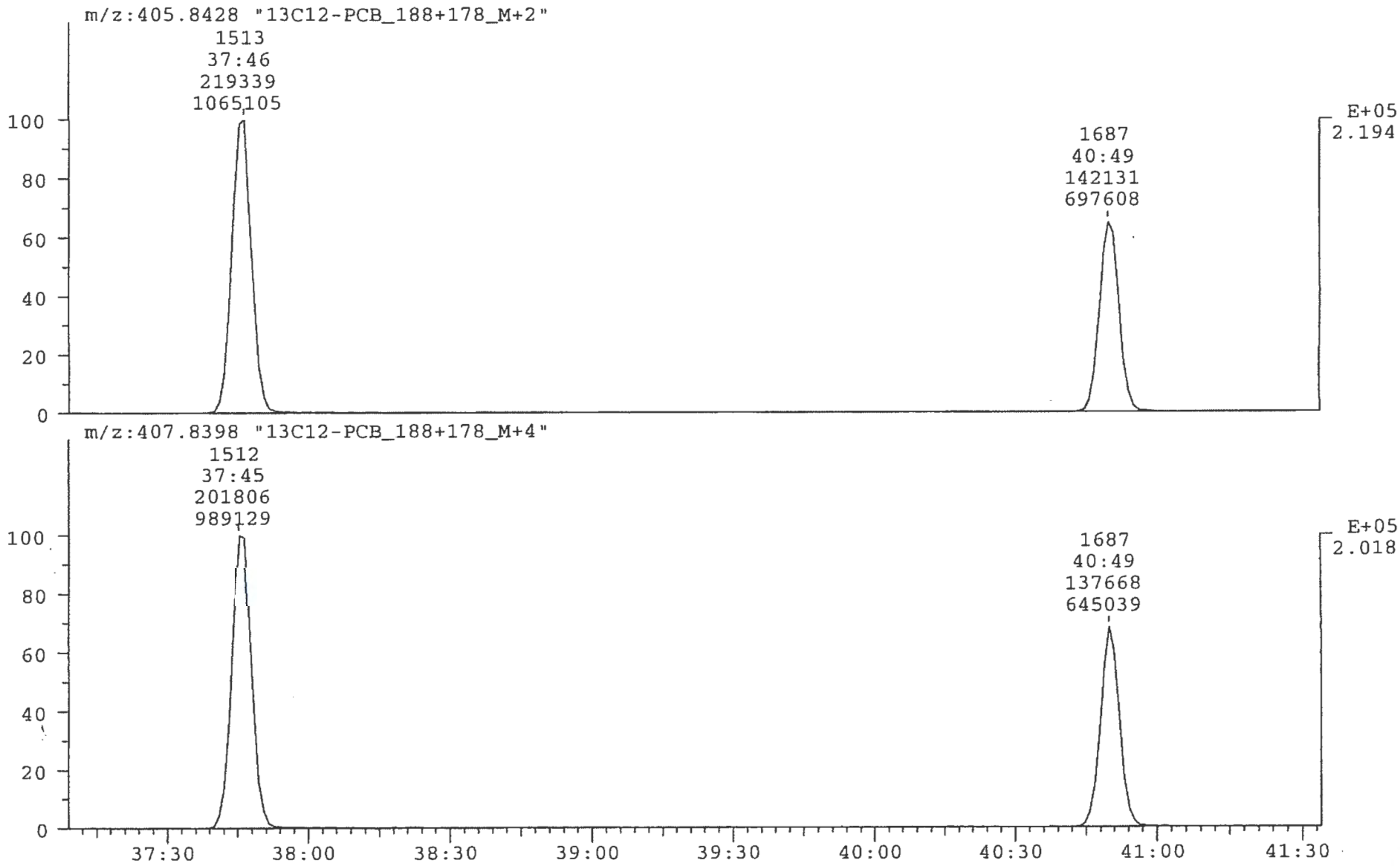
```
CHRO:  a07030733                                08-Mar-07   Elapse:  38:11      1537
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1362 > 1712           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



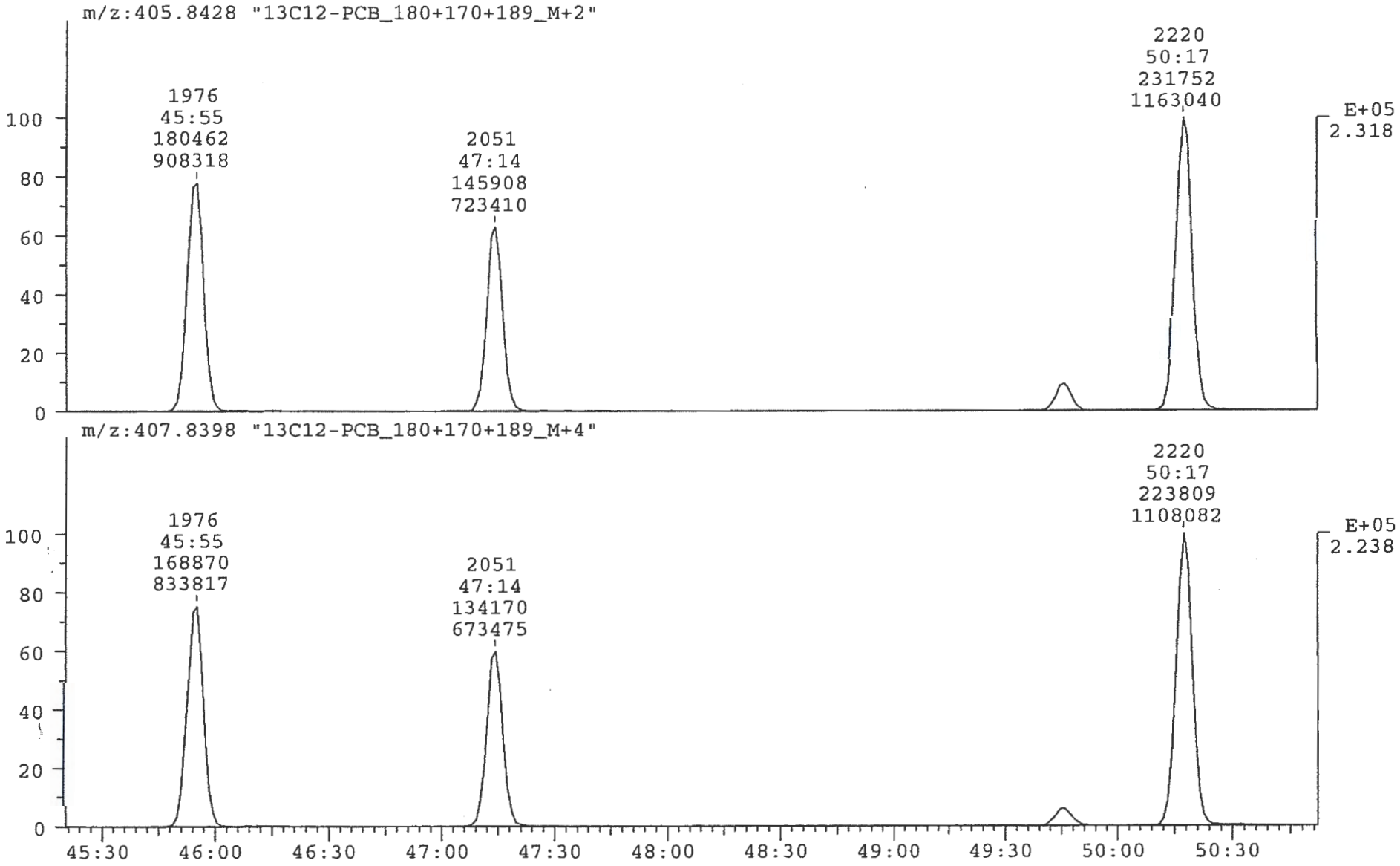
CHRO: a07030733 08-Mar-07 Elapse: 44:06 1873
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1495 > 2246 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030733                              08-Mar-07   Elapse:  39:21      1603
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  5
Peak:  100.00  ppm     Label wndw:   1478 > 1729          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

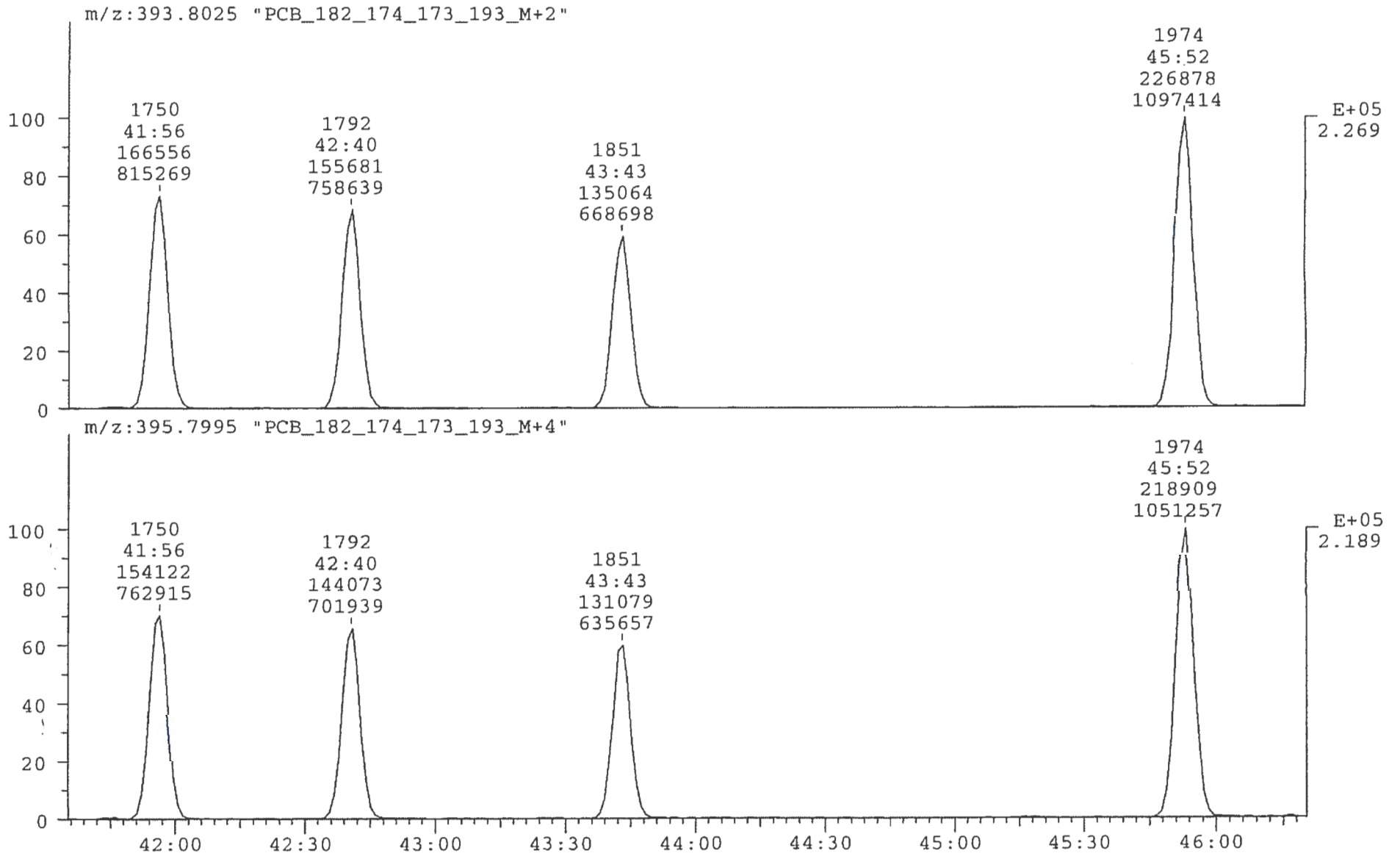


```
CHRO:  a07030733                                08-Mar-07   Elapse:  48:09      2103
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   5
Peak:  100.00  ppm      Label wndw:   1943 > 2253           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

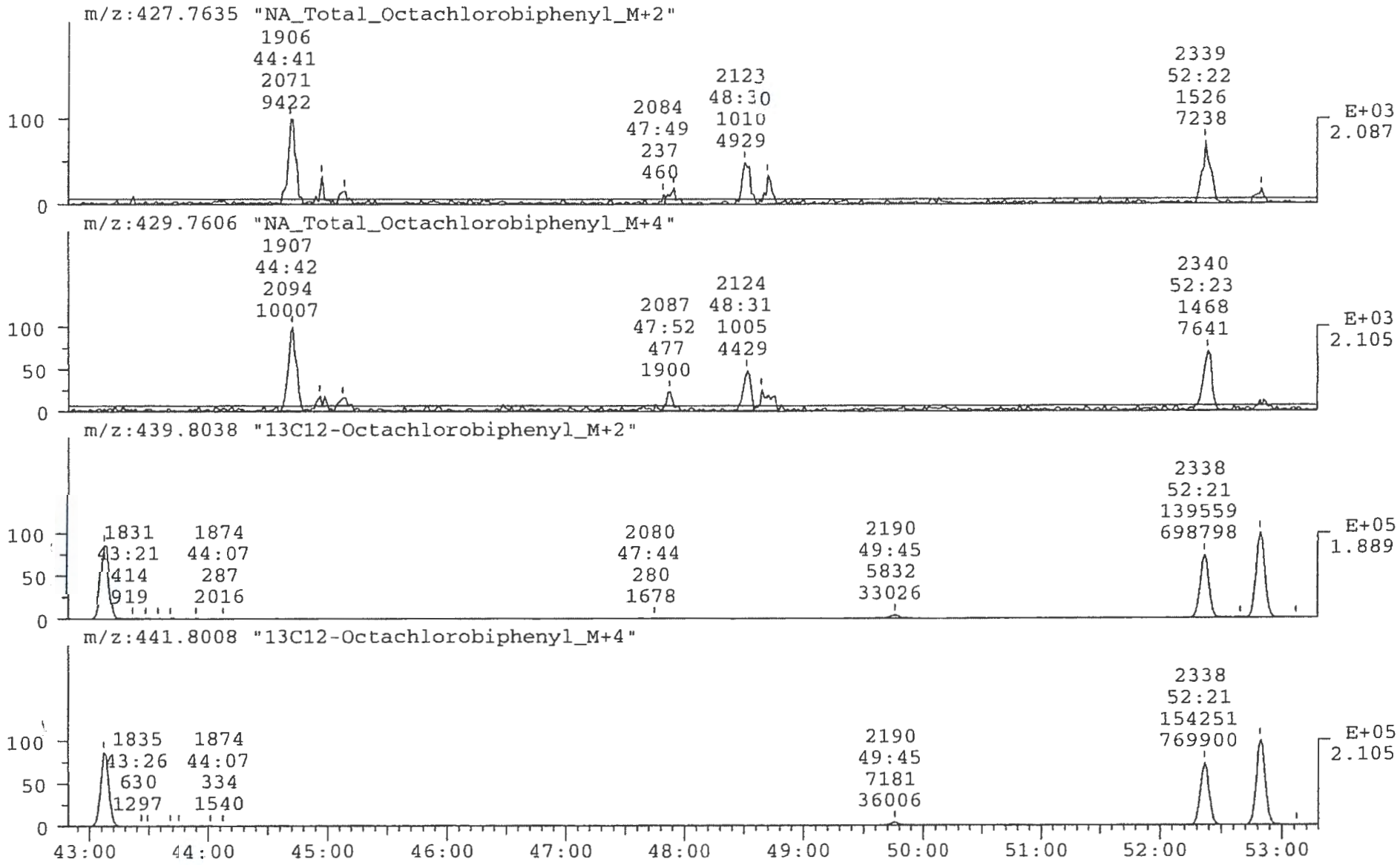


2334

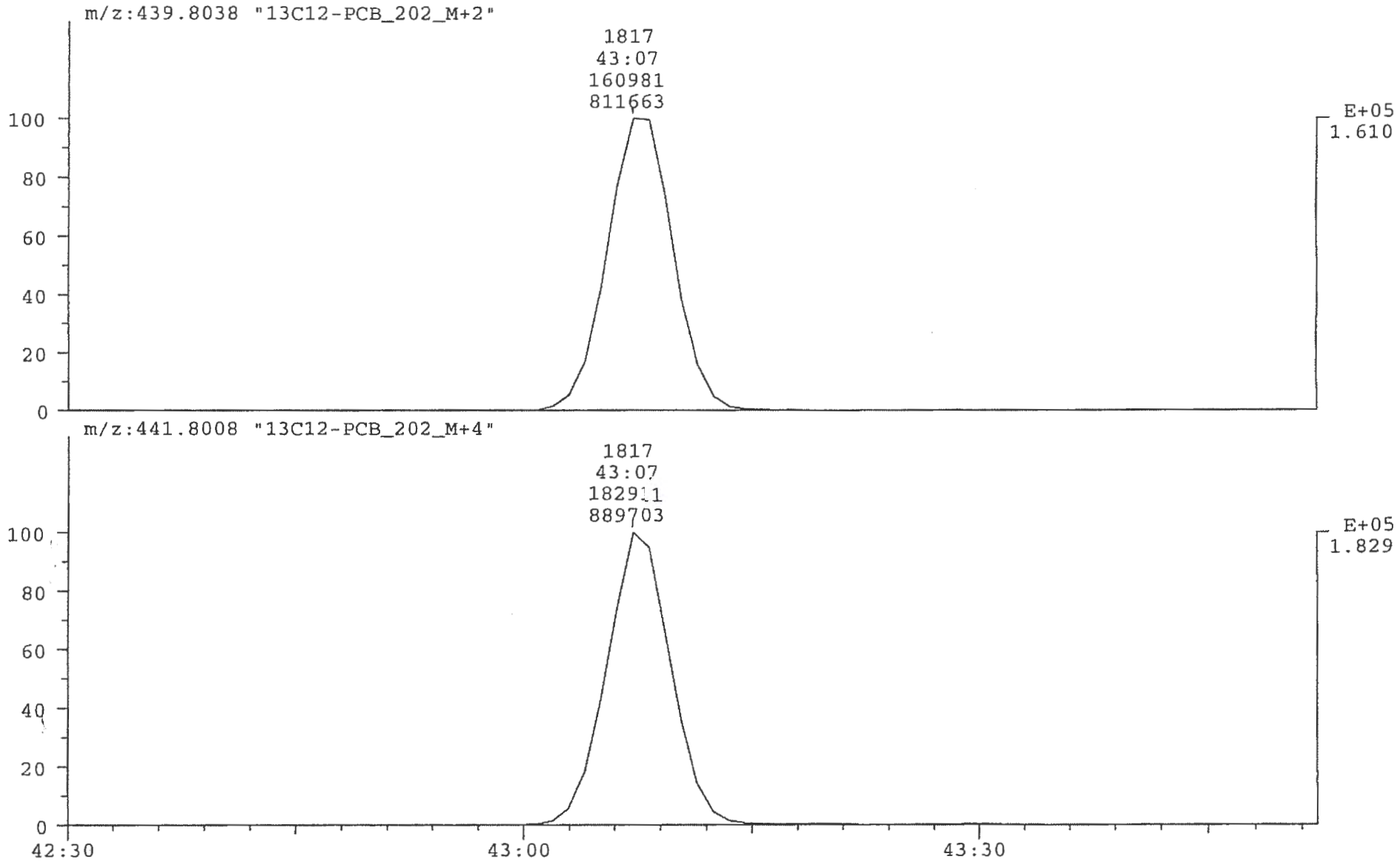
CHRO: a07030733 08-Mar-07 Elapse: 43:57 1865
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1730 > 2000 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



CHRO: a07030733 08-Mar-07 Elapse: 48:02 2097
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 1800 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

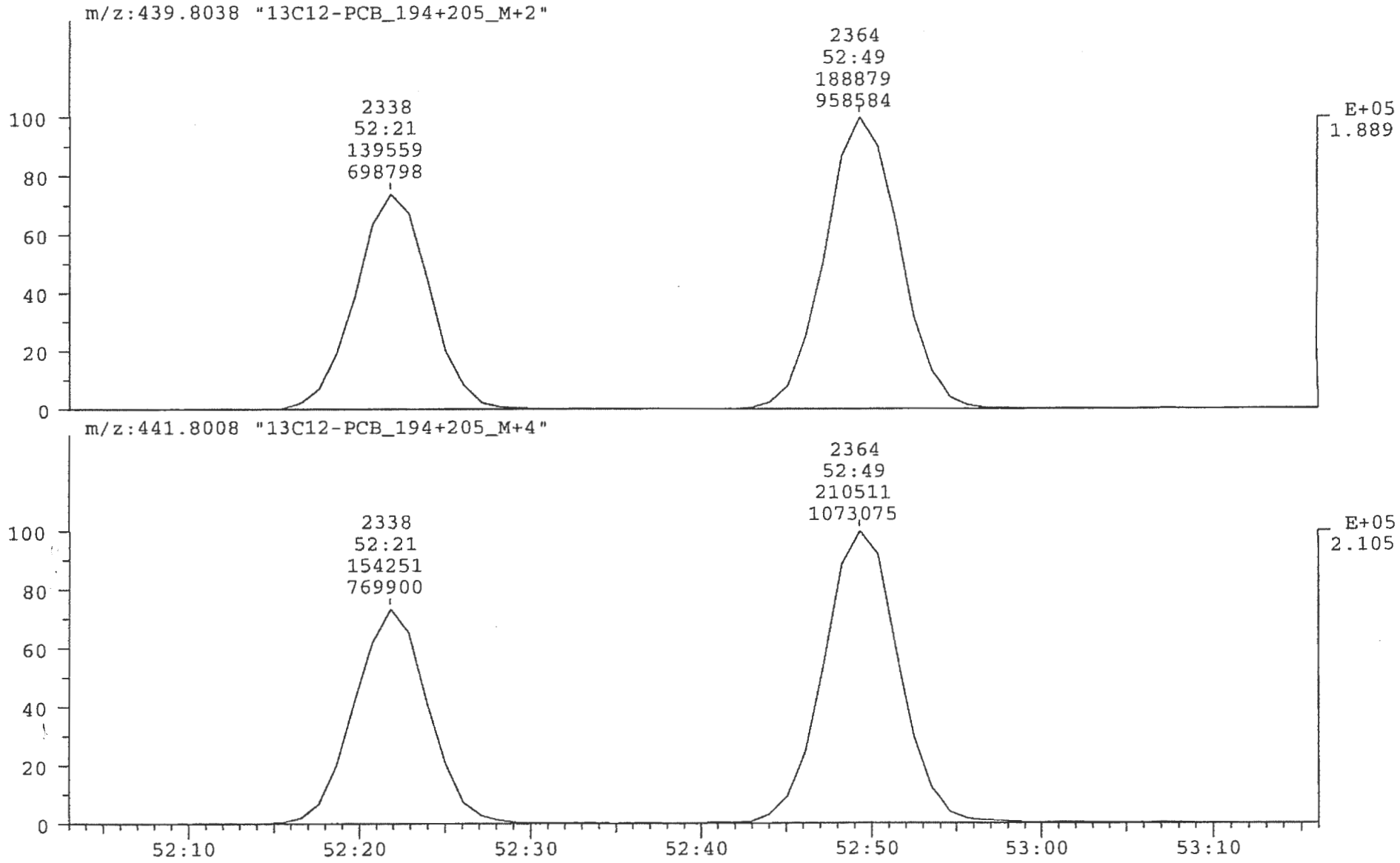


```
CHRO:  a07030733                                08-Mar-07   Elapse:  43:08      1818
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1                 Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix3/Run3
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   5
Peak:  100.00  ppm     Label wndw:   1782 > 1859            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



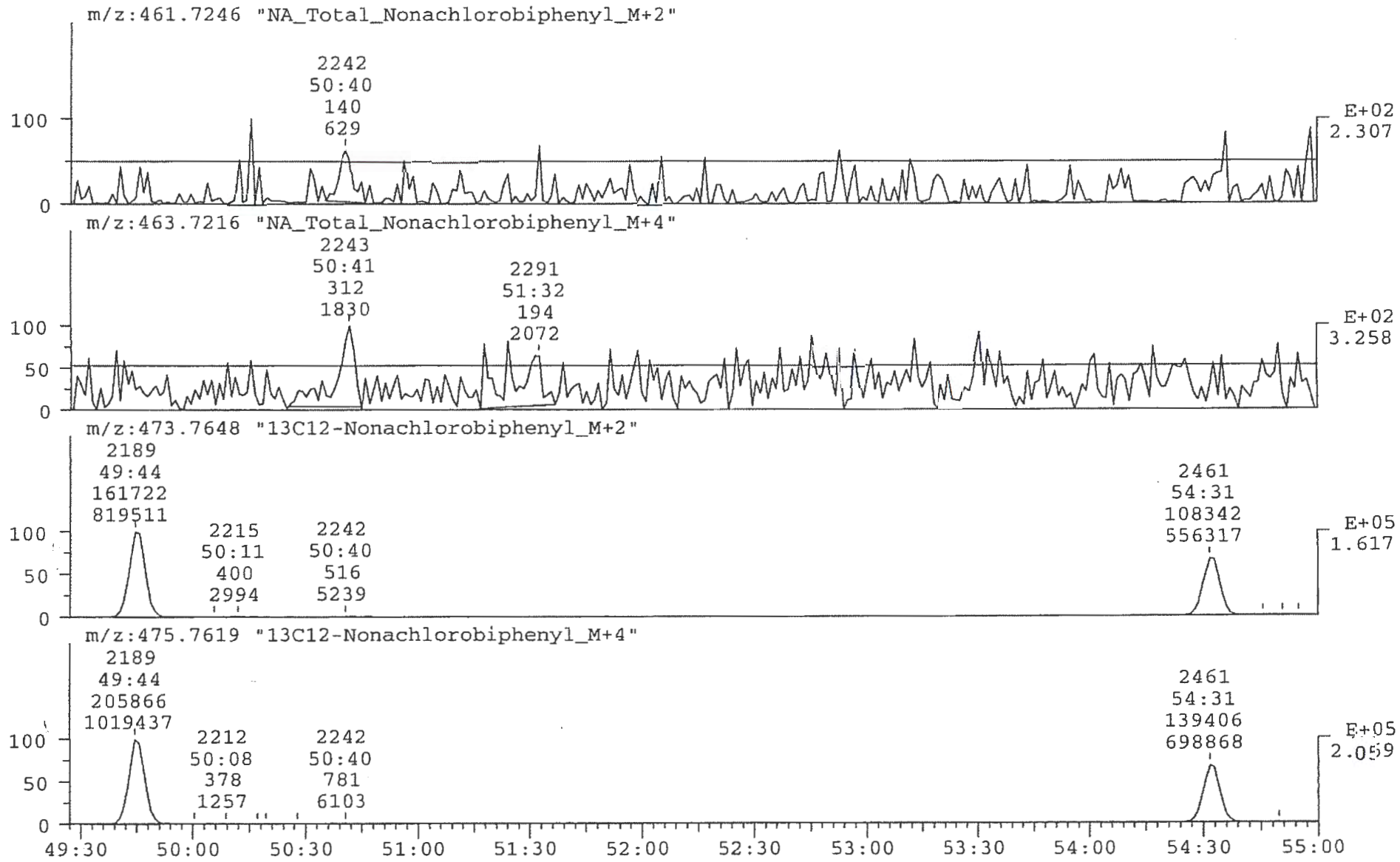
2337

CHRO: a07030733 08-Mar-07 Elapse: 52:38 2354
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2320 > 2389 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

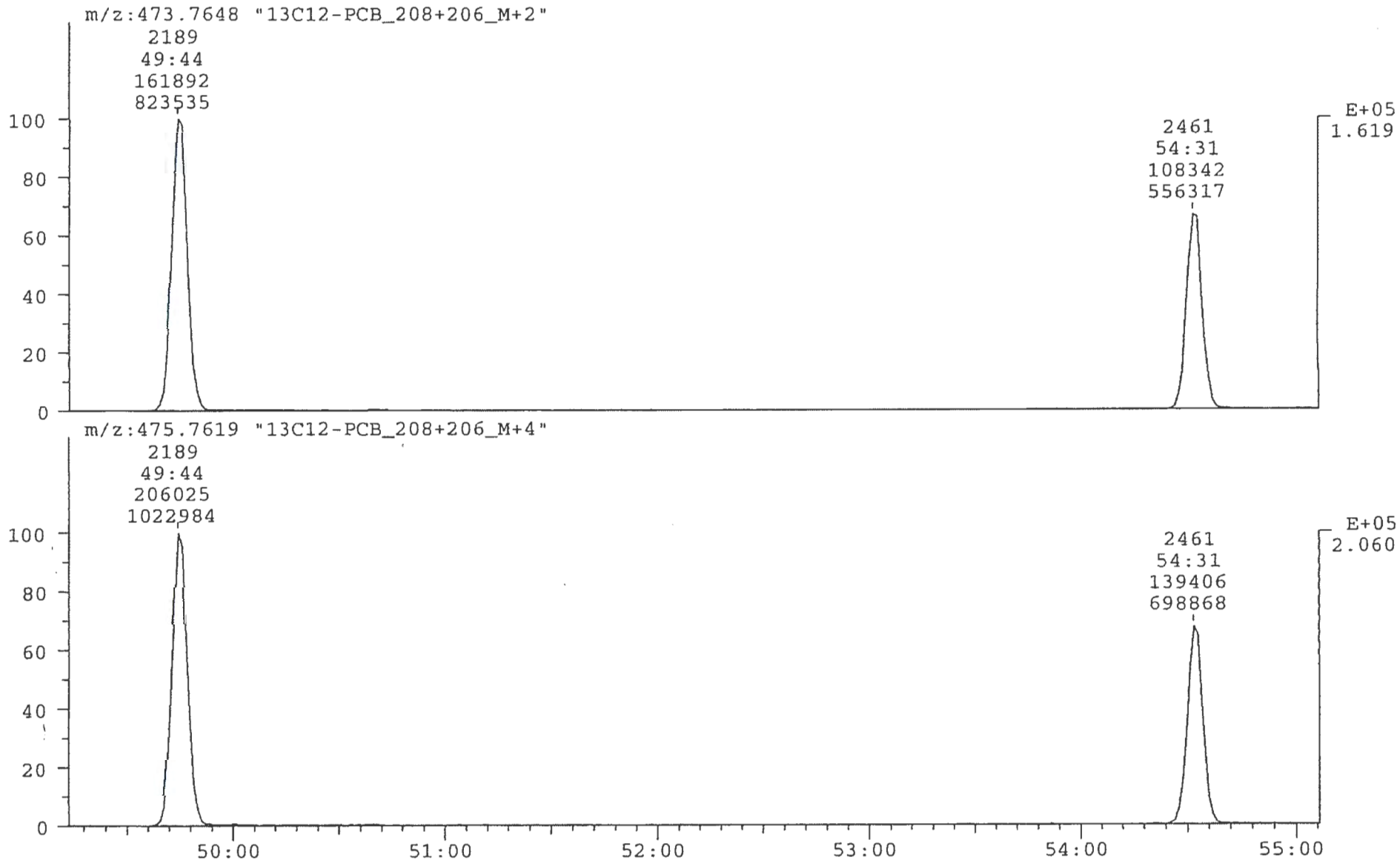


2338

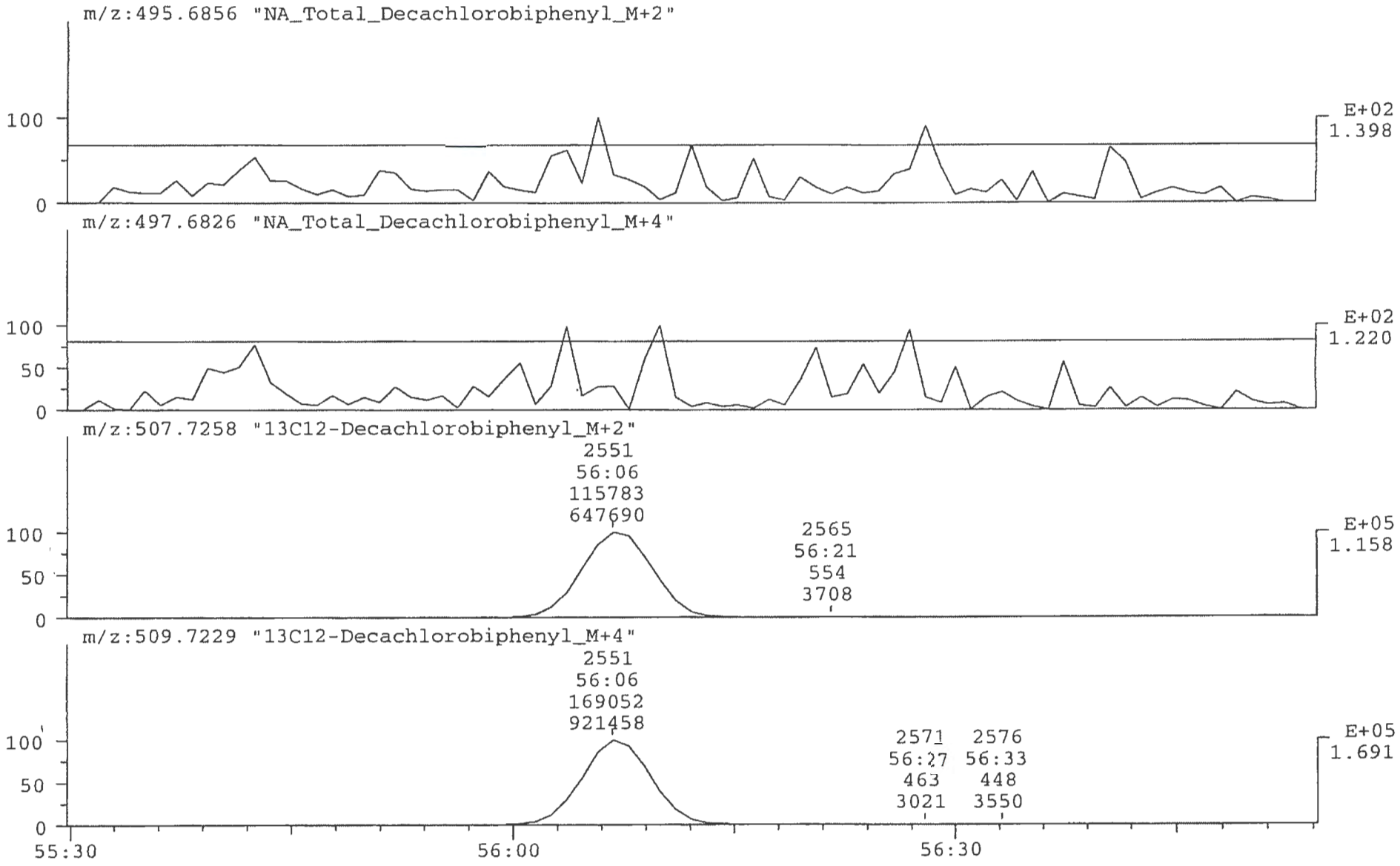
CHRO: a07030733 08-Mar-07 Elapse: 52:13 2330
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2172 > 2488 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030733                                08-Mar-07  Elapse:  52:12      2329
Samp:  Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1               Start :  05:23:53   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix3/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  5
Peak:  100.00  ppm      Label wndw:   2164 > 2494         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030733 08-Mar-07 Elapse: 56:12 2556
Samp: Vial 5 WO=2990:75Mix3 Meth=IE3 Dil=1 Start : 05:23:53 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix3/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 5
Peak: 100.00 ppm Label wndw: 2516 > 2596 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



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

ICL Version: 10.710
File name: a07030733
Study: 1668 RT Mix3/Run3
Sample: WO=2990:75Mix3 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 5
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 13 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	266.0000
FVINLET	249.0000	FVSRC	834.0000	FWIN	0.7000
GCTC	210.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.2647	HVANAL	1300.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2606.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7300	TCURR	0.6641
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 05:23:53.1

Autosampler has injected sample from vial 5
MID Time Window 1: Resolution is 8226
MID Time Window 2: Resolution is 8406
MID Time Window 3: Resolution is 8573
MID Time Window 4: Resolution is 8099
Analysis stopped at: 08-Mar-07 06:20:55.9 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030741.	Prep Date		SDG No	
Analysis ID	96248	Prep Exp Date		Date Received	
Analysis Date	03/07/07 20:08	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					**188.0393**	**190.0363**	**188.0393**	**190.0363**	**2.66-3.60**		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	240	303	96	121	0.79 *	/	
	13C12-PCB 1	12:12	00:00	0	2437588	776602	1043302	331289	3.14	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2445587	754094	877603	271971	3.24	AVV/AVV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	343	210	137	84	1.63	/	
	13C12-PCB 4	14:42	00:00	0	1060049	667528	351168	226987	1.59	ABV/AVV	
	13C12-PCB 9	16:40	00:00	0	1781464	1098164	511151	316473	1.62	ABV/ABV	
	13C12-PCB 8	17:32	00:00	0	1828168	1142071	509282	326934	1.60	AVV/AVV	
	13C12-PCB 15	20:41	00:00	0	1837288	1132545	481737	296094	1.62	AVV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	298	240	119	96	1.24 *	/	
	PCB 25 (BZ)	23:06	00:00	0	856089	830171	212431	204619	1.03	ABV/ABV	D
	PCB 21 (BZ)	23:55	00:00	0	793071	775461	192062	190350	1.02	AVV/AVV	D
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	653	280	261	112	2.33 *	/	
	13C12-PCB 19	17:53	00:00	0	634927	603298	178270	168678	1.05	AVV/ABV	
	13C12-PCB 32	21:09	00:00	0	1167384	1094297	295380	276608	1.07	AVV/ABV	
	13C12-PCB 31	23:24	00:00	0	1690491	1616037	409288	394698	1.05	ABV/ABV	
	13C12-PCB 28	23:41	00:00	0	1517935	1486024	355203	345025	1.02	AVV/AVV	
	13C12-PCB 37	27:47	00:00	0	1520612	1423514	336621	313738	1.07	ABB/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	228	338	91	135	0.67	/	
	PCB 69 (BZ)	25:57	00:00	0	1133544	1462047	257350	330021	0.78	ABV/ABV	
	PCB 47 (BZ)	26:35	00:00	0	980522	1236785	223762	289079	0.79	AVV/AVV	M
	PCB 42 (BZ)	27:08	00:00	0	819248	1047204	186042	239921	0.78	AVV/AVV	D
	PCB 64 (BZ)	27:50	00:00	0	1249927	1606079	292386	369374	0.78	ABV/AVV	D
	PCB 70 (BZ)	30:21	00:00	0	1266907	1635869	285647	364152	0.77	ABV/ABV	
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	153	140	61	56	1.09 *	/	
	13C12-PCB 54	21:02	00:00	0	574073	719164	144709	184543	0.80	ABV/ABV	
	13C12-PCB 52	25:33	00:00	0	830733	1040356	197099	245030	0.80	ABV/ABV	
	13C12-PCB 79	33:28	00:00	0	1131578	1443975	239557	315893	0.78	ABV/ABV	D
	13C12-PCB 81	34:31	00:00	0	1032205	1317981	223519	284955	0.78	ABV/ABV	D
	13C12-PCB 77	35:07	00:00	0	1092656	1346956	235586	278390	0.81	ABB/ABV	D
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	218	165	87	66	1.32 *	/	
	PCB 102 (BZ)	29:51	00:00	0	1057676	666848	233379	147651	1.59	ABV/ABV	
	PCB 97 (BZ)	33:32	00:00	0	967402	610343	201421	126947	1.59	ABV/ABV	DM
	PCB 115 (BZ)	34:26	00:00	0	1414651	883400	301012	184844	1.60	ABV/AVV	DM

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030741.	Prep Date		SDG No	
Analysis ID	96248	Prep Exp Date		Date Received	
Analysis Date	03/07/07 20:08	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	PCB 123 (BZ)	37:03	00:00	0	1614638	1056791	336836	221773	1.53	AVV/AVV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	160	138	64	55	1.16 *	/	
	13C12-PCB 104	26:29	00:00	0	1230457	768886	291838	182321	1.60	ABV/ABV	D
	13C12-PCB 95	29:31	00:00	0	924532	576344	202401	126453	1.60	ABV/ABV	D
	13C12-PCB 101	32:22	00:00	0	993156	603537	217205	131335	1.65	AVV/ABV	
	13C12-PCB 111	35:00	00:00	0	1225377	763980	267362	165657	1.60	ABV/ABV	
	13C12-PCB 123	37:01	00:00	0	1492675	933407	310175	195115	1.60	ABV/ABV	D
	13C12-PCB 118	37:21	00:00	0	1578452	969839	329082	202151	1.63	AVV/AVV	D
	13C12-PCB 114	37:54	00:00	0	1503636	939815	298700	189548	1.60	AVV/AVV	D
	13C12-PCB 105	38:36	00:00	0	1483660	911228	308366	183660	1.63	ABV/ABB	D
	13C12-PCB 127	39:58	00:00	0	1628559	1028053	343956	211352	1.58	AVV/ABV	
	13C12-PCB 126	41:40	00:00	0	1569677	975878	309651	195125	1.61	AVV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	200	188	80	75	1.07	/	
	PCB 134 (BZ)	36:28	00:00	0	808572	636541	163742	132810	1.27	AVV/AVV	D
	PCB 131 (BZ)	37:04	00:00	0	868031	682363	179407	139666	1.27	ABV/AVV	D
	PCB 163 (BZ)	40:30	00:00	0	1373019	1084971	281629	223035	1.27	ABV/ABV	M
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	155	118	62	47	1.32	/	
	13C12-PCB 155	32:03	00:00	0	1022759	809922	230963	172701	1.26	ABV/ABV	D
	13C12-PCB 153	39:10	00:00	0	1050362	816244	216284	166515	1.29	ABV/ABV	D
	13C12-PCB 138	40:28	00:00	0	1056171	818016	219081	166654	1.29	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1299470	1026658	261060	213259	1.27	AVV/ABV	
	13C12-PCB 156	44:35	00:00	0	1102798	1059901	263321	205975	1.04 *	ABV/ABV	RD
	13C12-PCB 157	44:40	00:00	0	1479733	975571	289487	229444	1.52 *	AVB/AVB	RM
	13C12-PCB 169	47:50	00:00	0	1246399	977717	253261	198228	1.27	ABB/ABB	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	160	273	64	109	0.59 *	/	
	PCB 180 (BZ)	45:57	00:00	0	896683	855659	180976	181377	1.05	ABV/ABV	DM
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	138	123	55	49	1.12	/	
	13C12-PCB 188	37:47	00:00	0	1092117	1026993	228513	212486	1.06	ABV/ABV	D
	13C12-PCB 178	40:52	00:00	0	688535	653790	141161	133413	1.05	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	924957	860530	190855	179495	1.07	ABV/ABV	
	13C12-PCB 170	47:15	00:00	0	743110	698353	153369	144030	1.06	ABV/ABV	
	13C12-PCB 189	50:19	00:00	0	1165861	1130873	234151	226124	1.03	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	193	170	77	68	1.13 *	/	
	13C12-PCB 202	43:09	00:00	0	856714	930251	178825	189552	0.92	ABV/ABV	D
	13C12-PCB 194	52:24	00:00	0	707053	762343	138318	155127	0.93	ABV/ABV	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

isocalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030741.	Prep Date		SDG No	
Analysis ID	96248	Prep Exp Date		Date Received	
Analysis Date	03/07/07 20:08	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

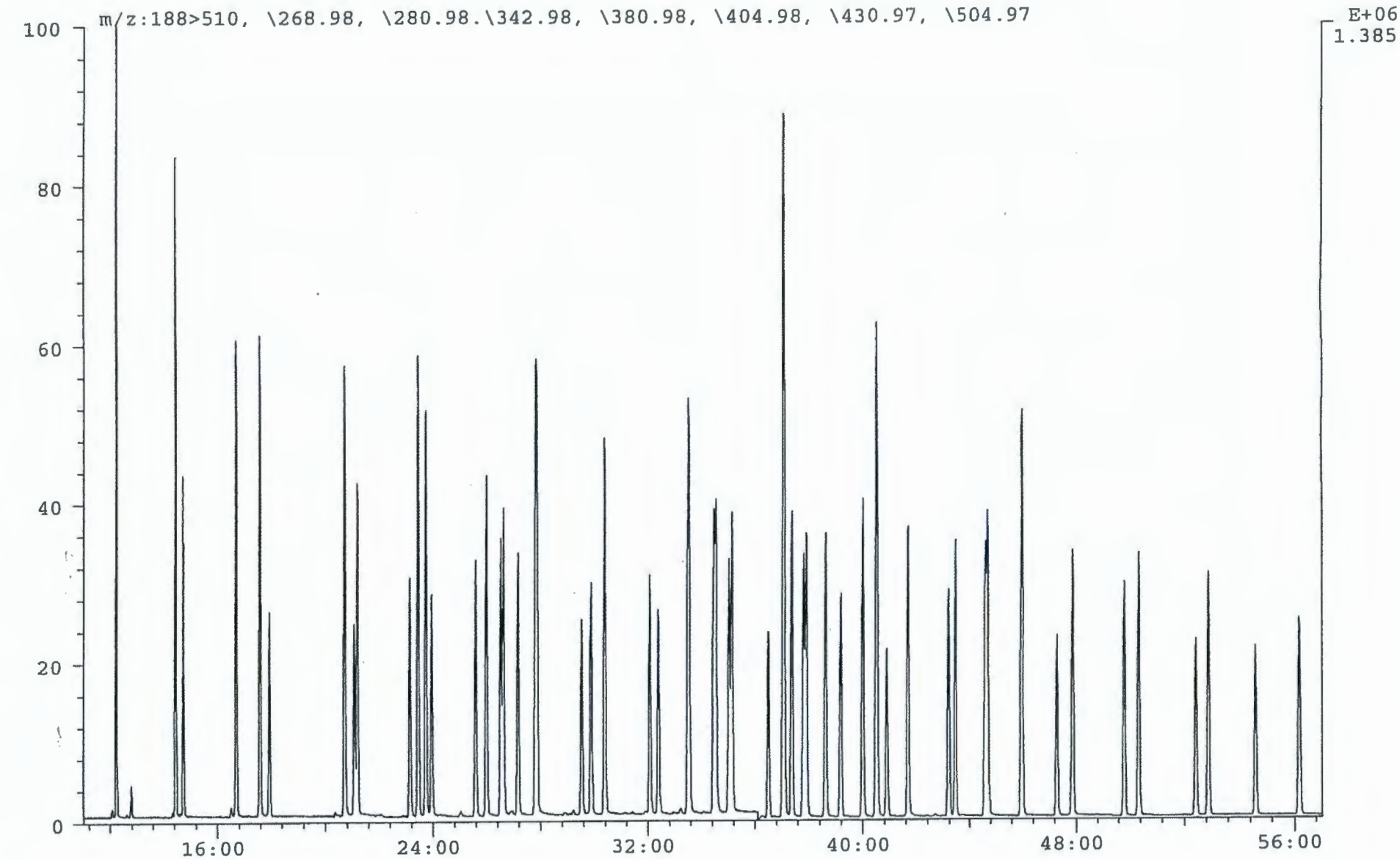
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	13C12-PCB 205	52:51	00:00	0	975094	1074078	193983	217085	0.91	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	150	158	60	63	0.95 *	/	
	13C12-PCB 208	49:46	00:00	0	829357	1042795	162991	213007	0.80	AVV/AVV	
	13C12-PCB 206	54:33	00:00	0	555906	713914	111629	143363	0.78	ABB/AVV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	223	155	89	62	1.44 *	/	
	13C12-PCB 209	56:08	00:00	0	655371	945856	121142	173406	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 O = peak outside RT window W = peak outside first/last X = peak has dup match

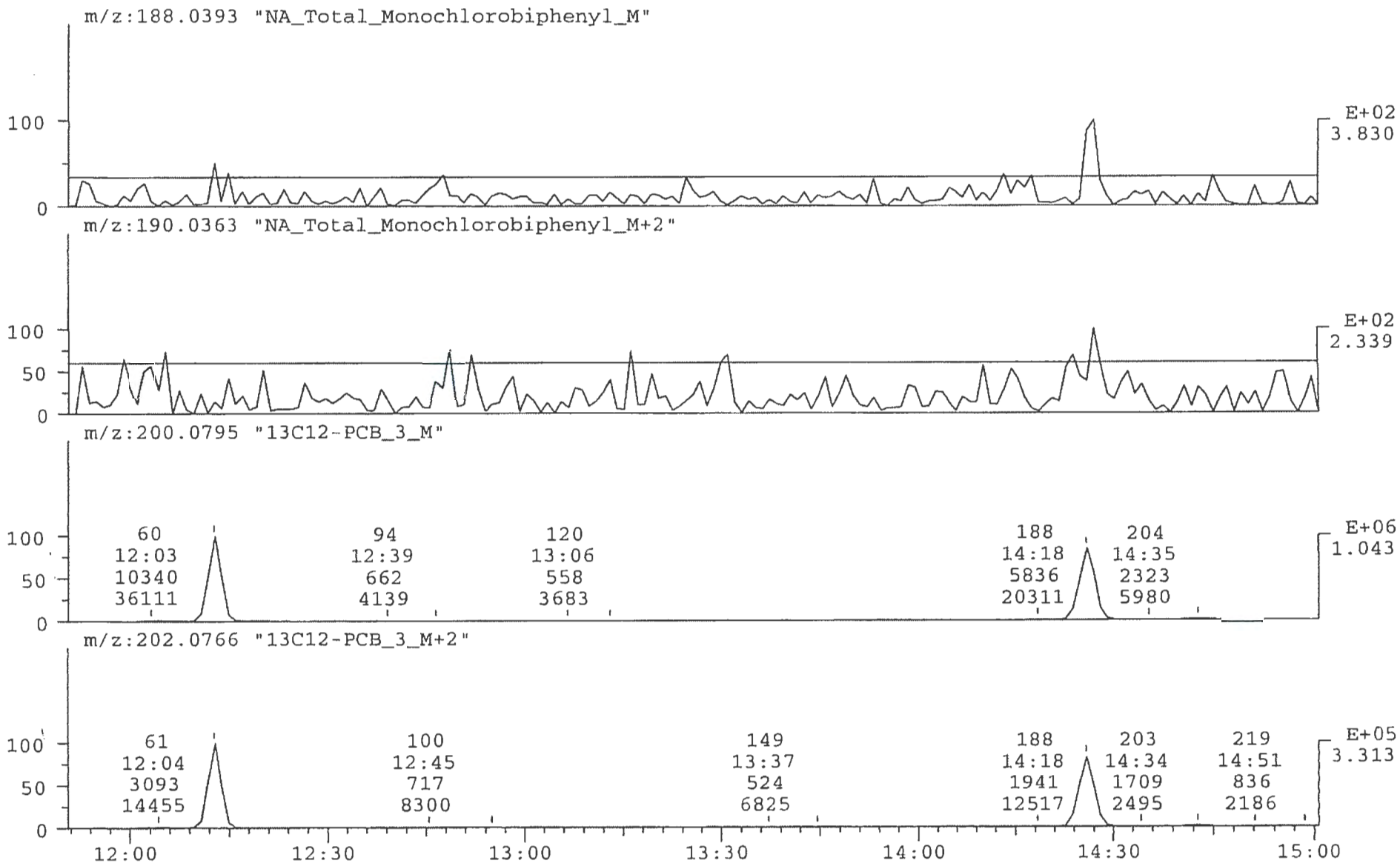
Int DCS 3-19-07
Calc DCS 3-19-07
DC [illegible] 3/19/07

CHRO: a07030741 07-Mar-07 Elapse: 56:11 2556
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2 > 2603 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

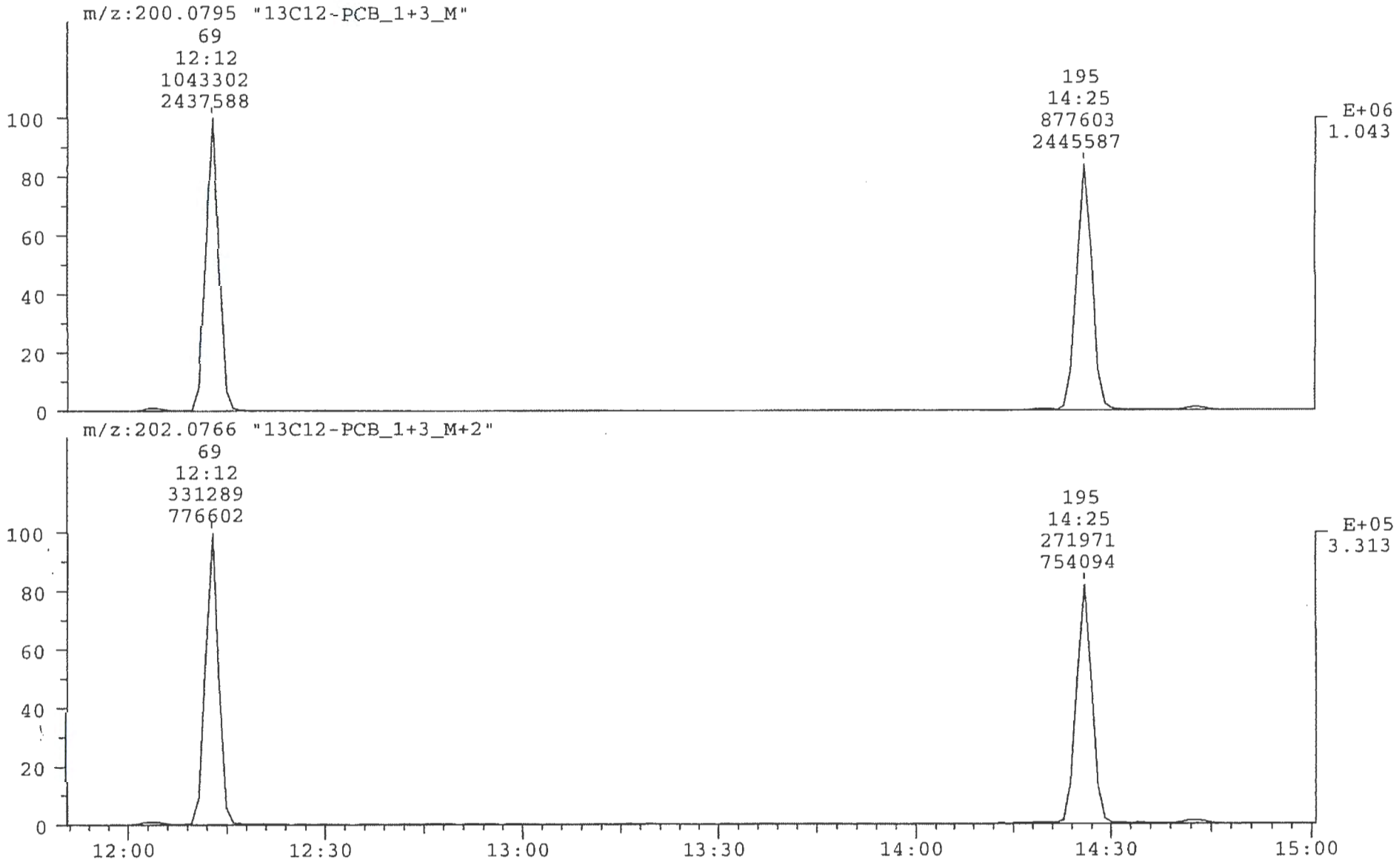


2349

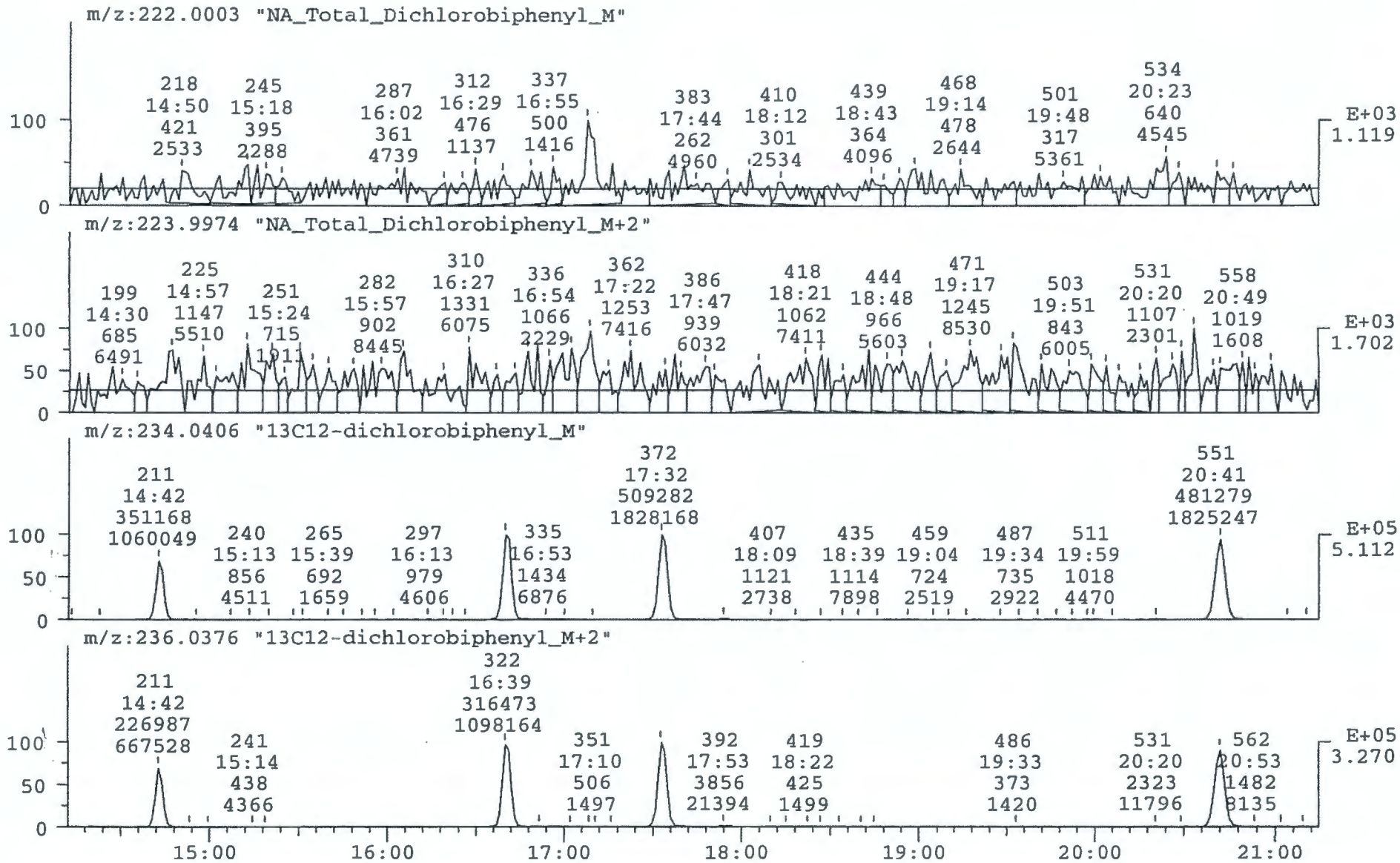
```
CHRO:  a07030741                                07-Mar-07   Elapse:  13:25.6      138
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



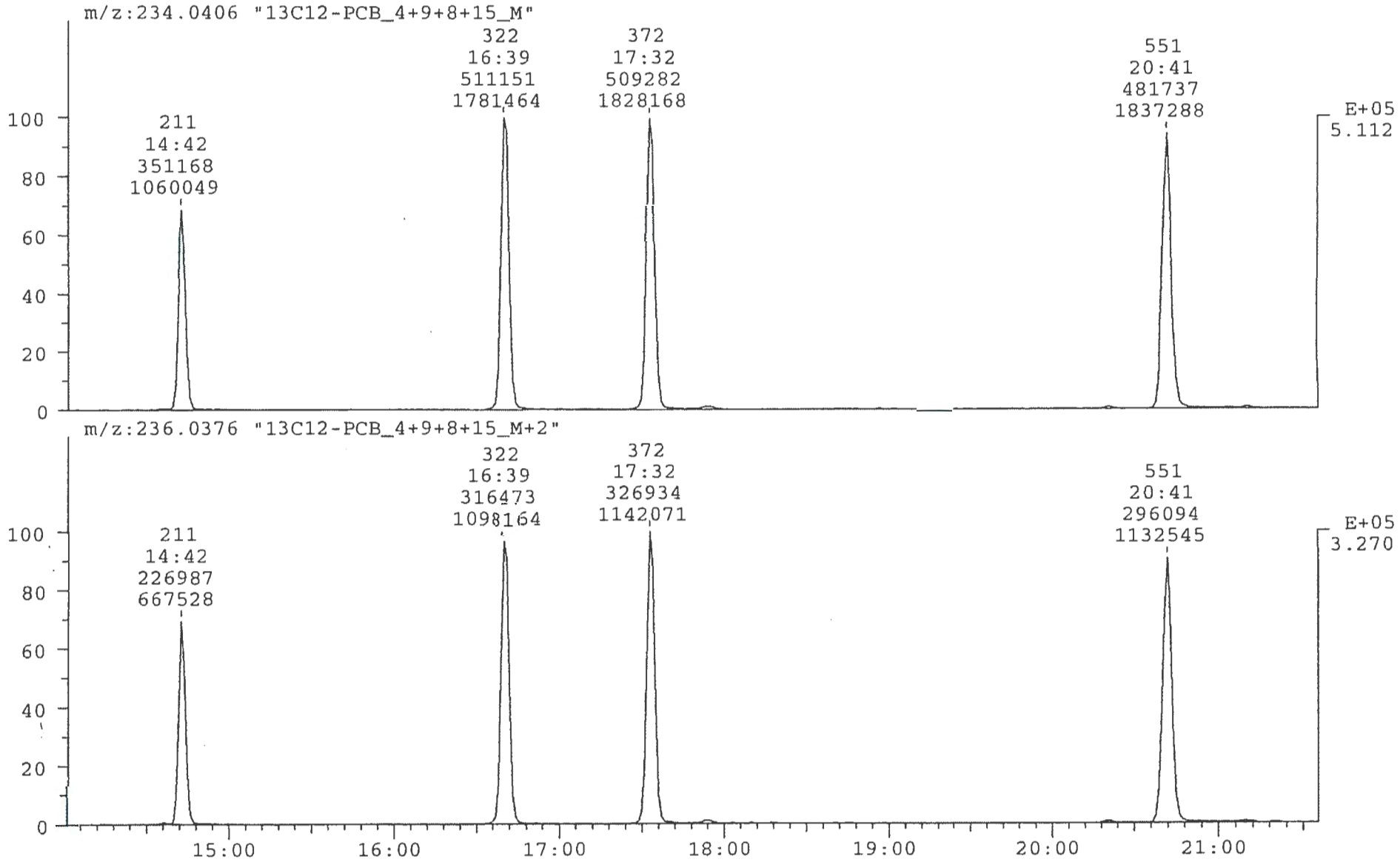
```
CHRO:  a07030741                                07-Mar-07   Elapse:  13:25.6      138
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC      Vial   6
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



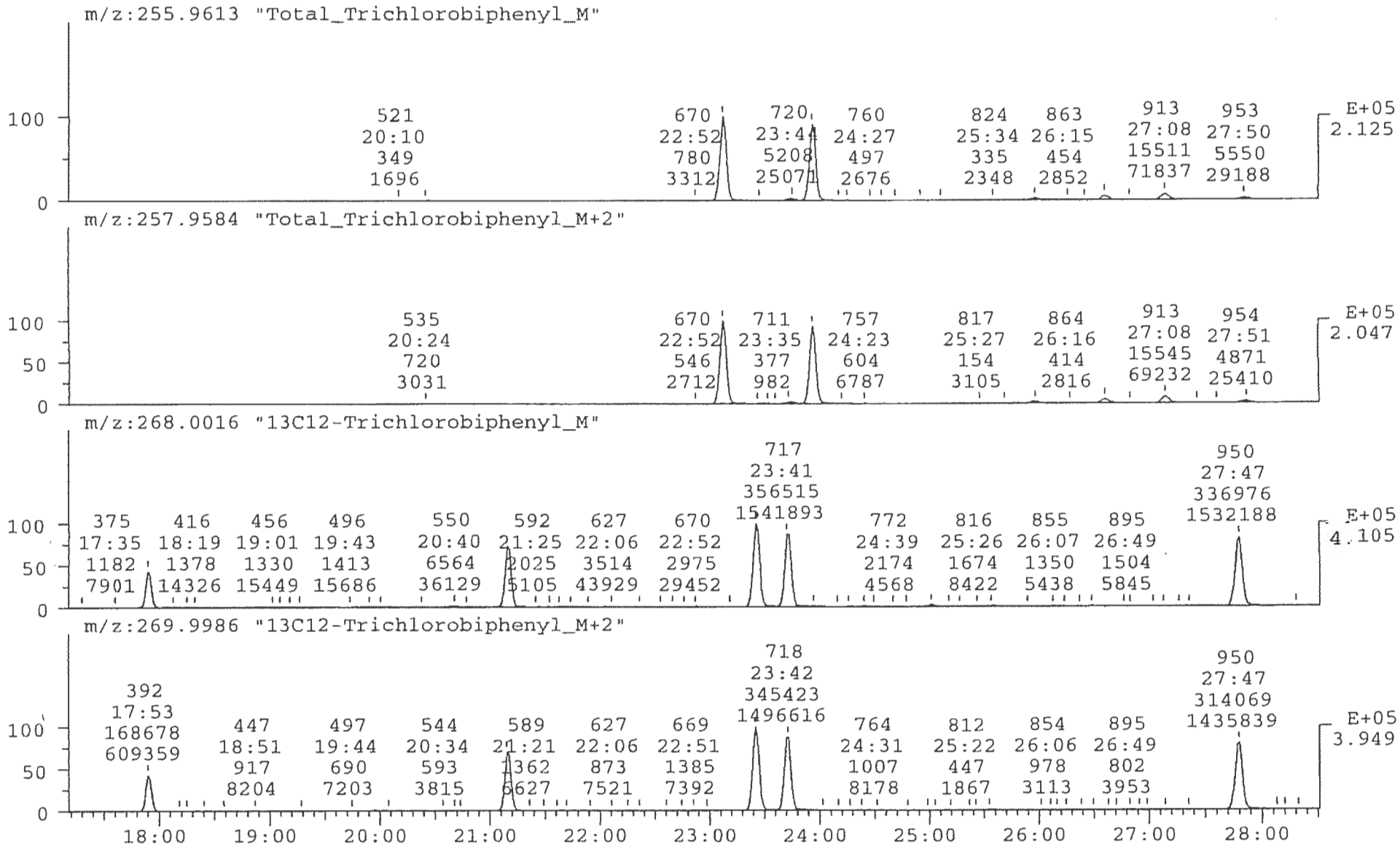
CHRO: a07030741 07-Mar-07 Elapse: 17:43.2 382
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



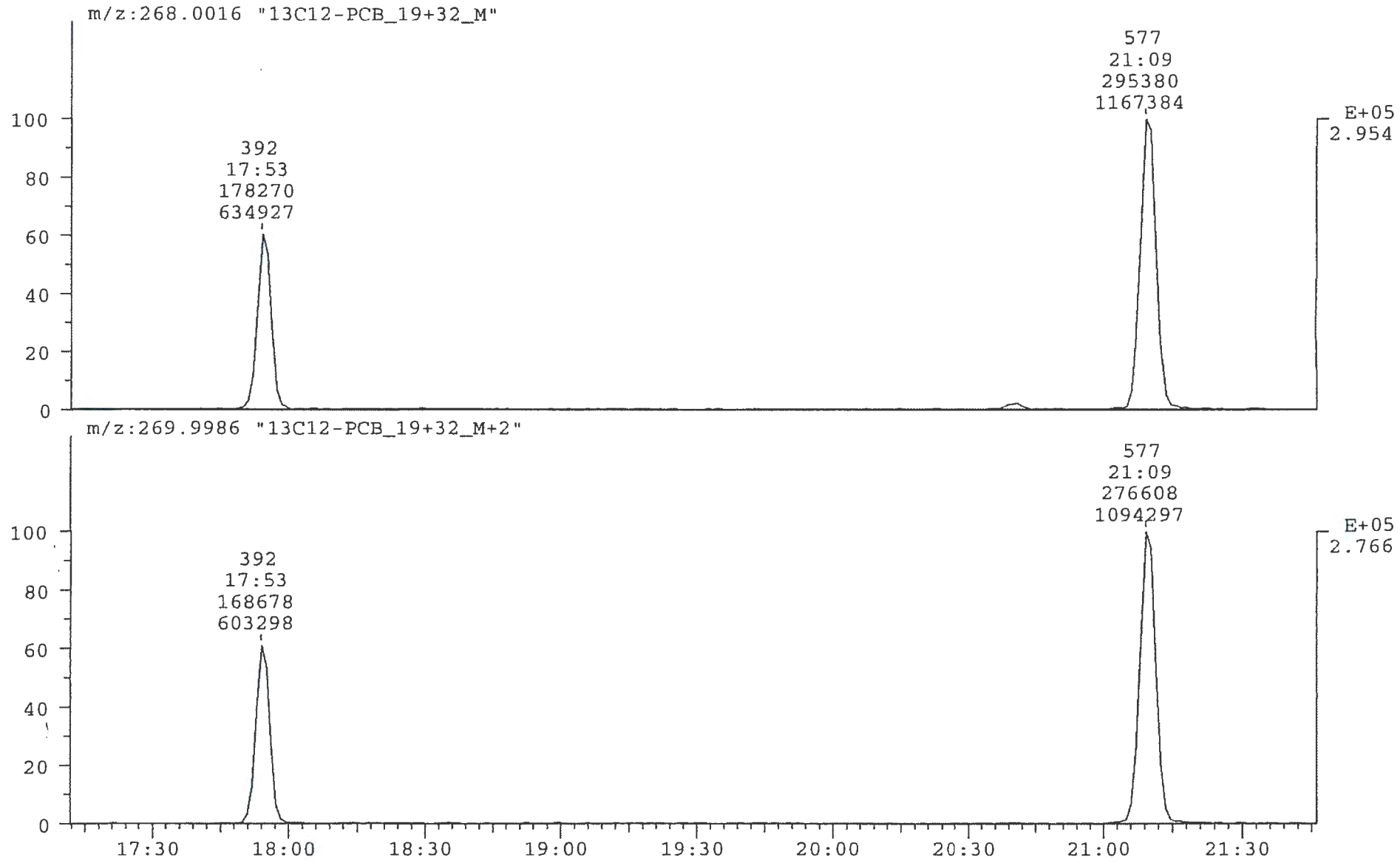
```
CHRO:  a07030741                                07-Mar-07   Elapse:  17:43.2      382
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



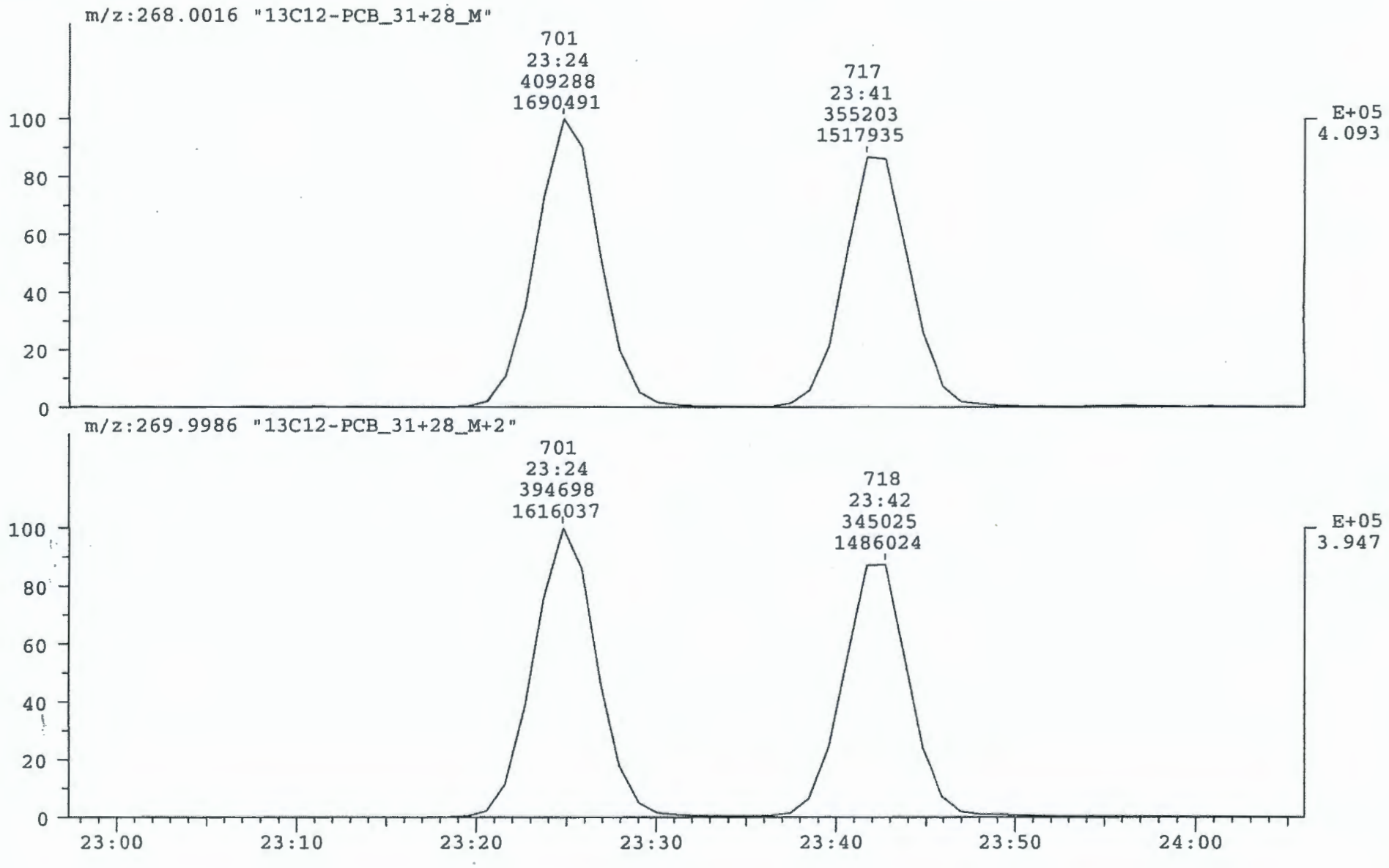
CHRO: a07030741 07-Mar-07 Elapse: 22:53.1 671
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



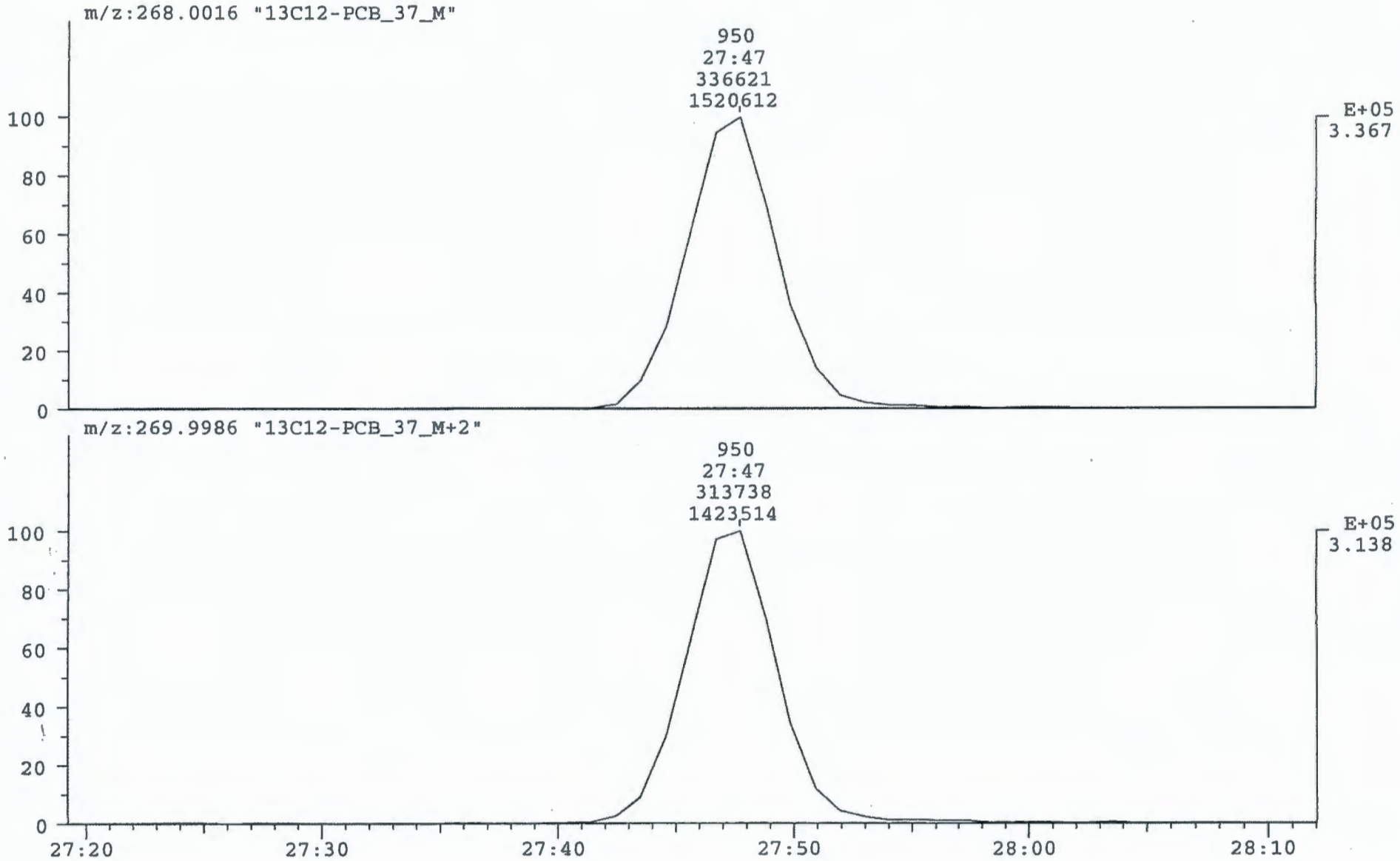
```
CHRO:  a07030741                              07-Mar-07   Elapse:  19:18.3      472
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   352 > 612           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1              Label :  -3, 3.0
Disp:  Height  Area
```



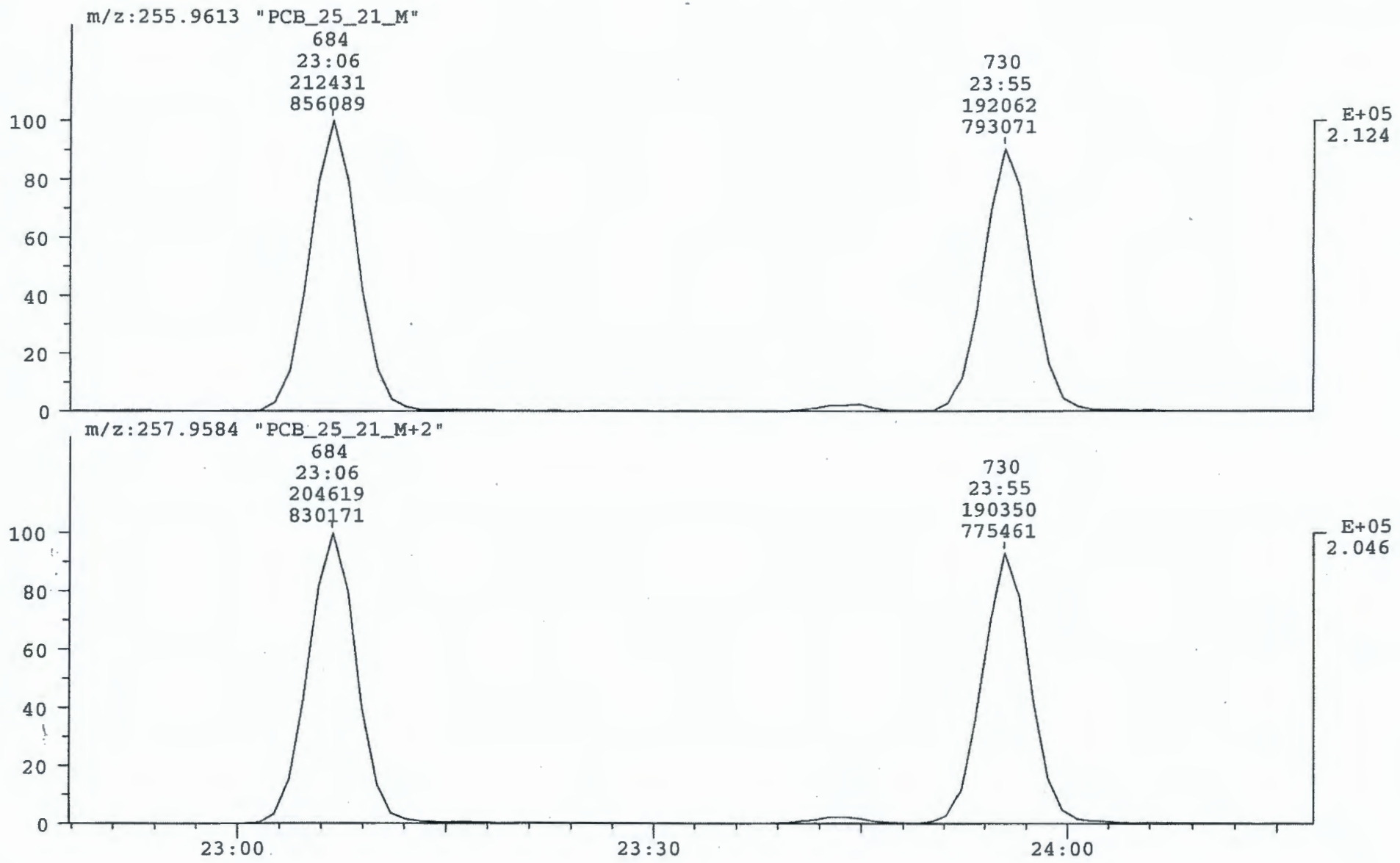
```
CHRO:  a07030741                                07-Mar-07   Elapse:  23:23.7      700
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   675 > 740             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



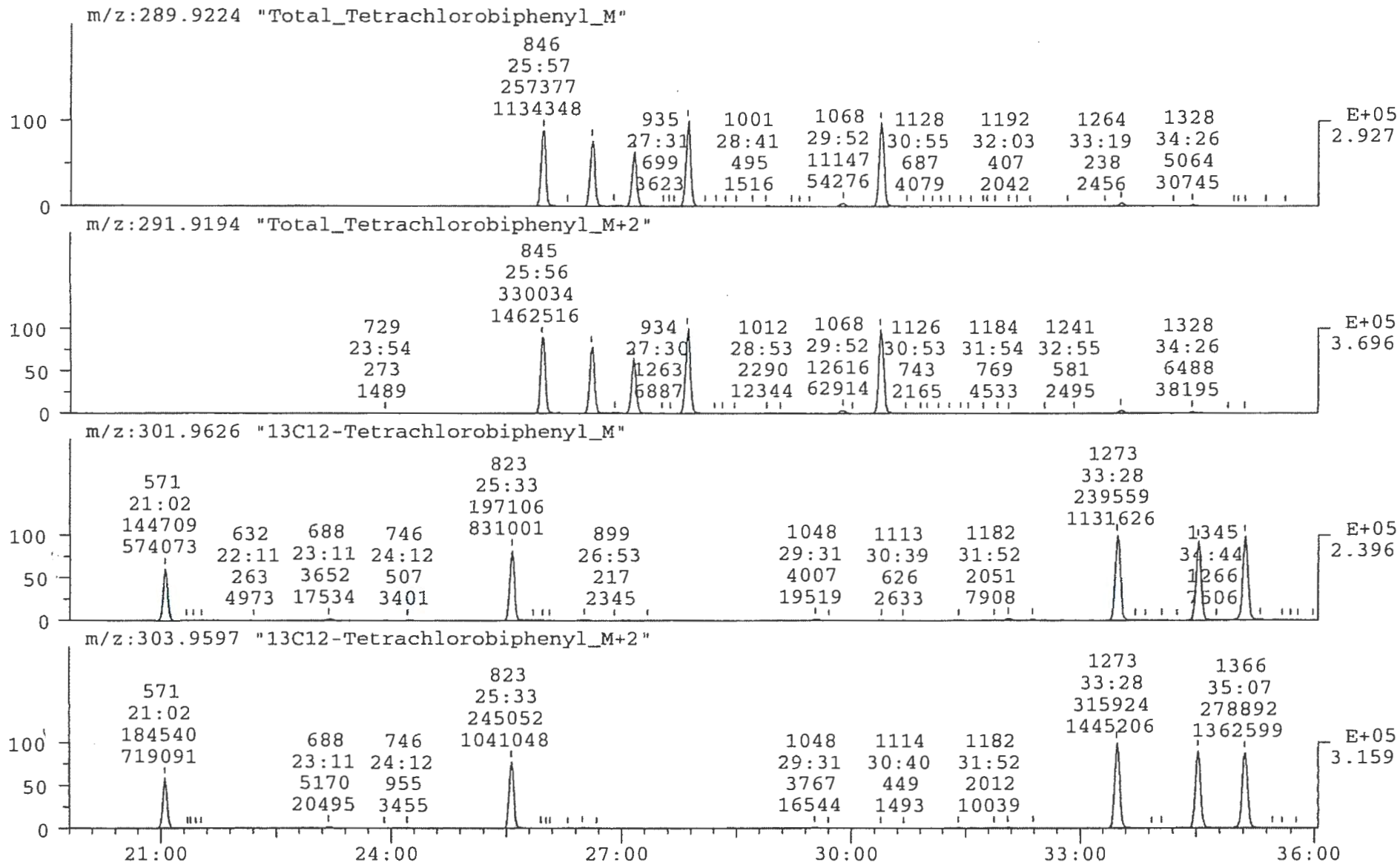
```
CHRO:  a07030741                                07-Mar-07   Elapse:  27:45.6      948
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   923 > 973             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



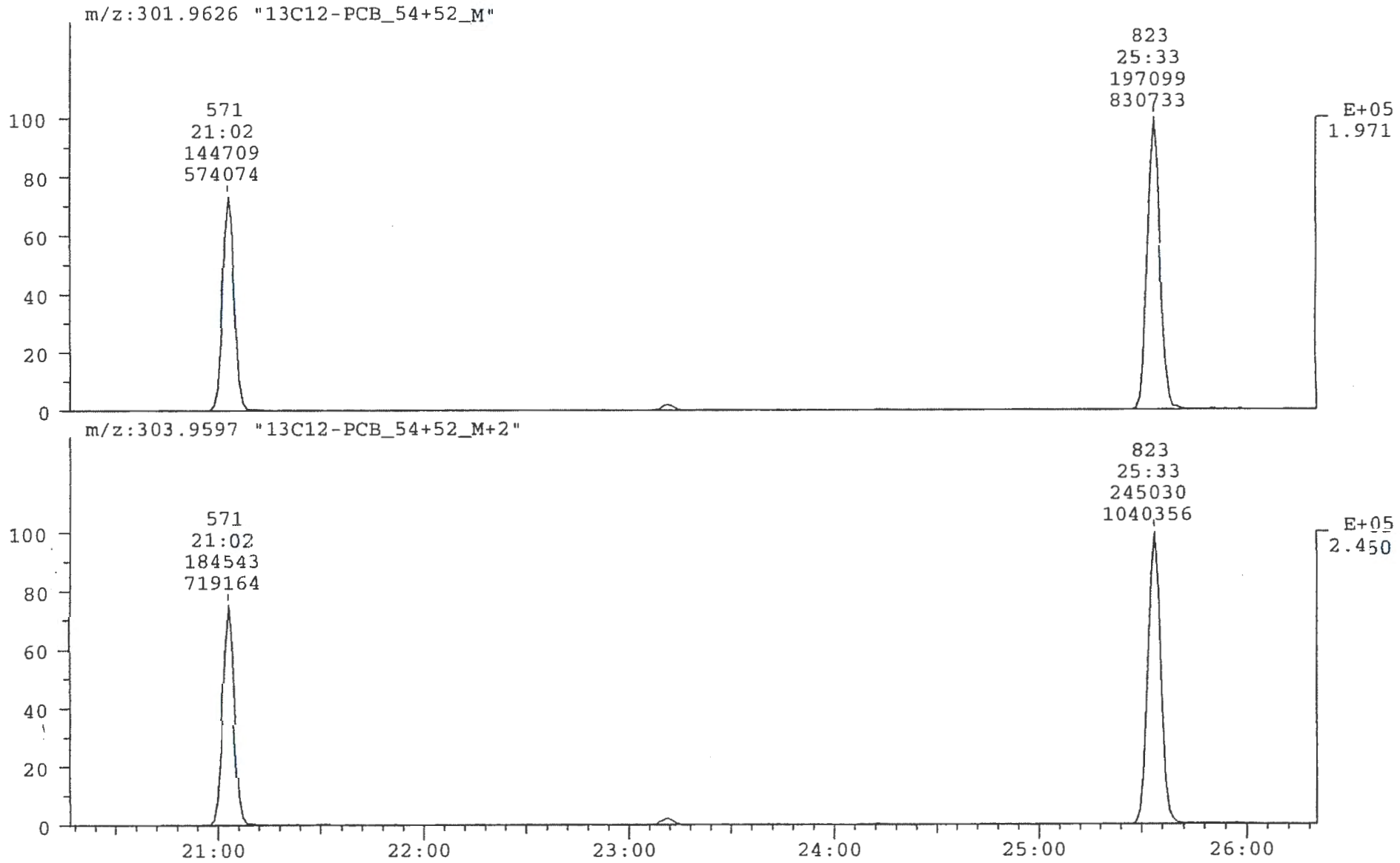
```
CHRO:  a07030741                                07-Mar-07  Elapse:  23:40.6      716
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   666 > 751           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030741                                07-Mar-07   Elapse:  27:55.1      957
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   500 > 1419            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

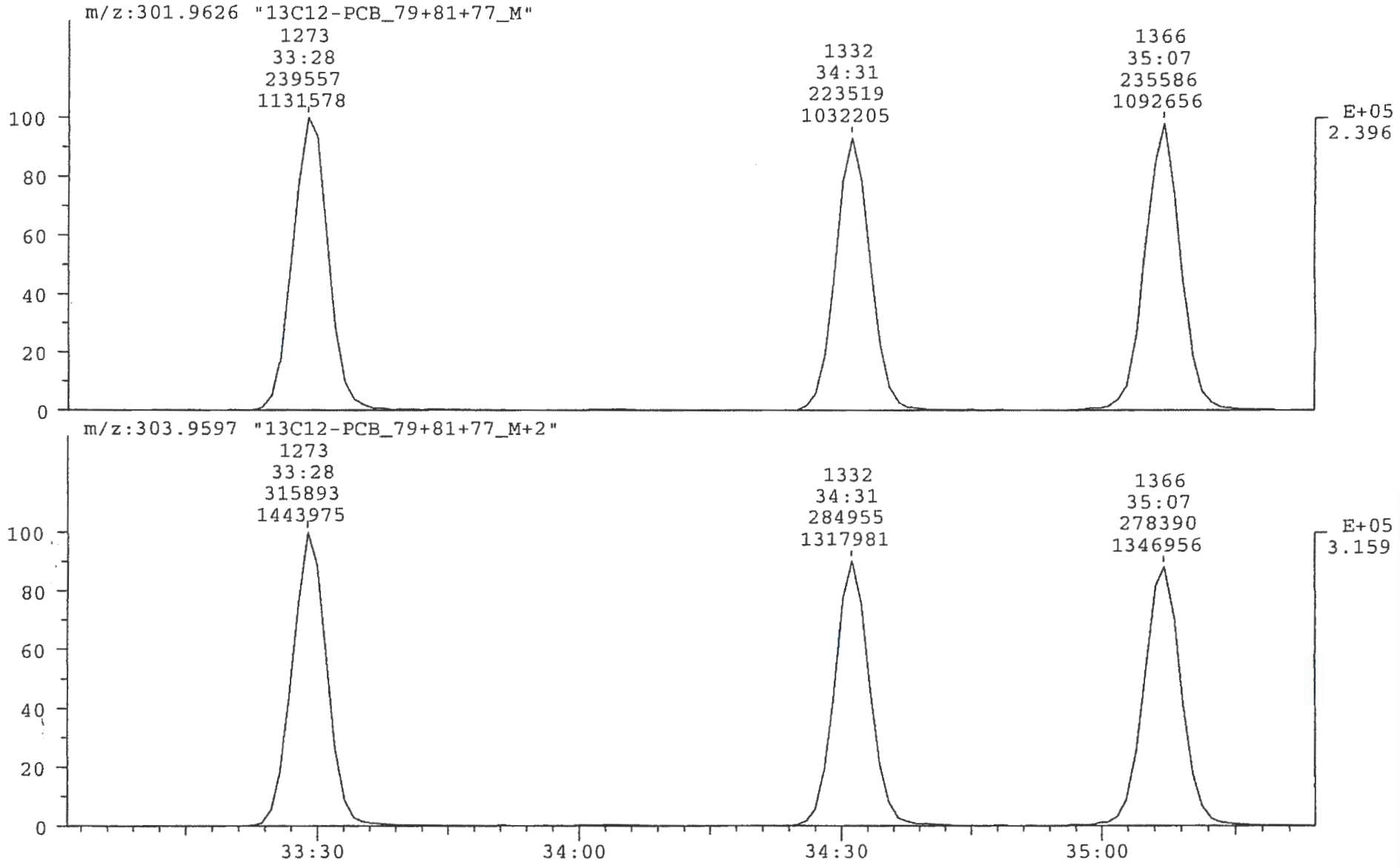


CHRO: a07030741 07-Mar-07 Elapse: 23:20.5 697
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2503
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 527 > 867 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



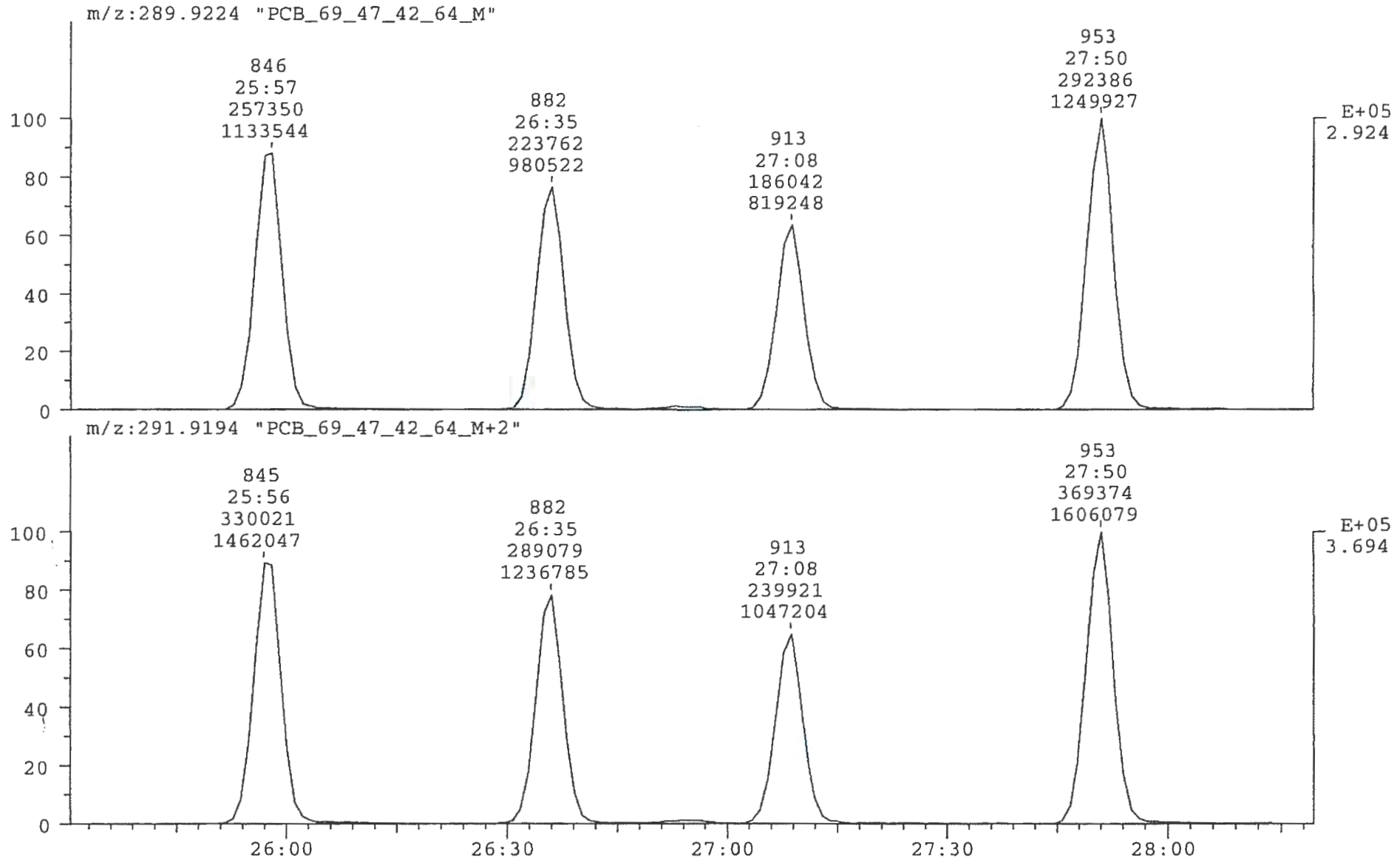
2360

```
CHRO:  a07030741                                07-Mar-07   Elapse:  34:15      1317
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1247 > 1382           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

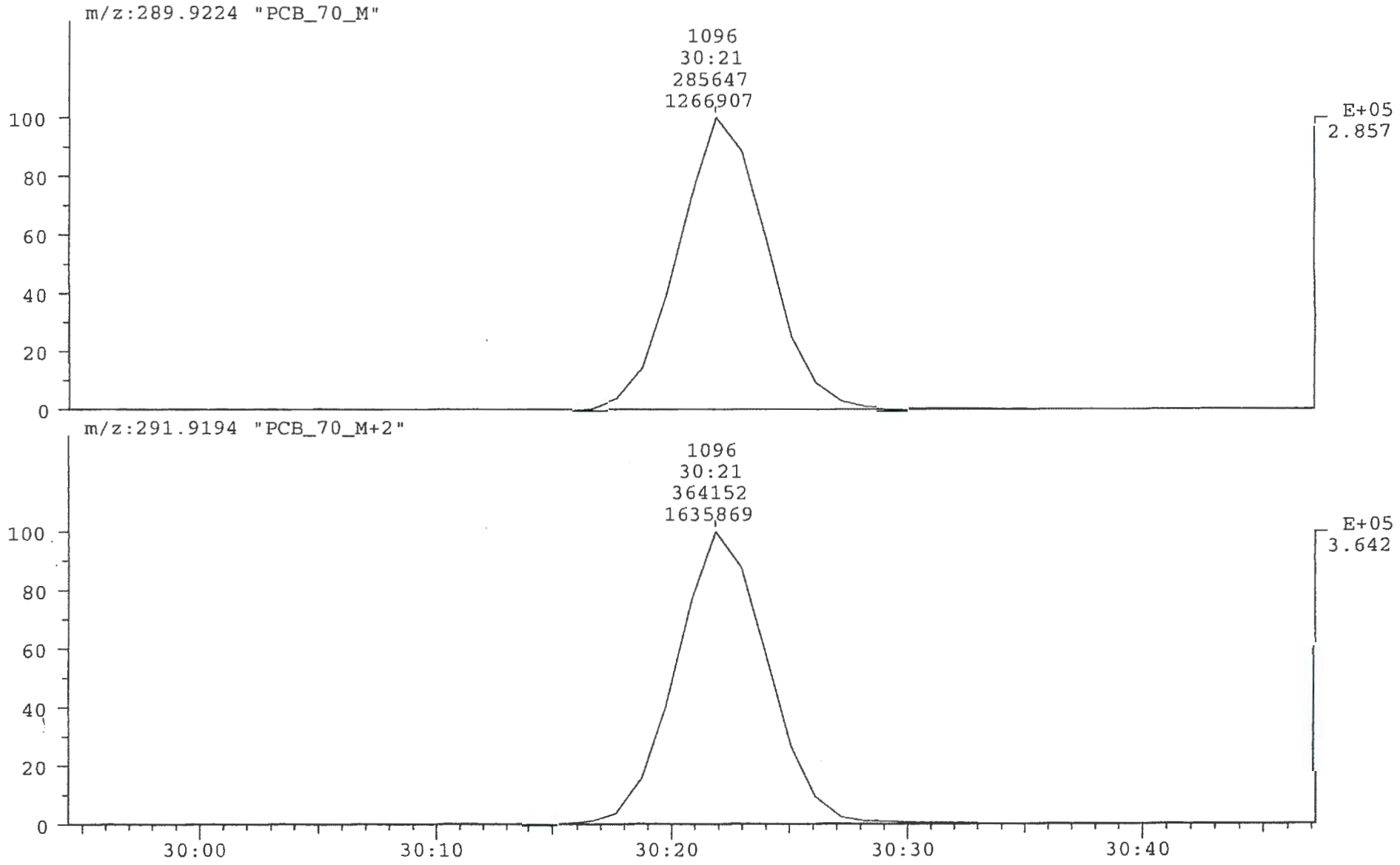


2361

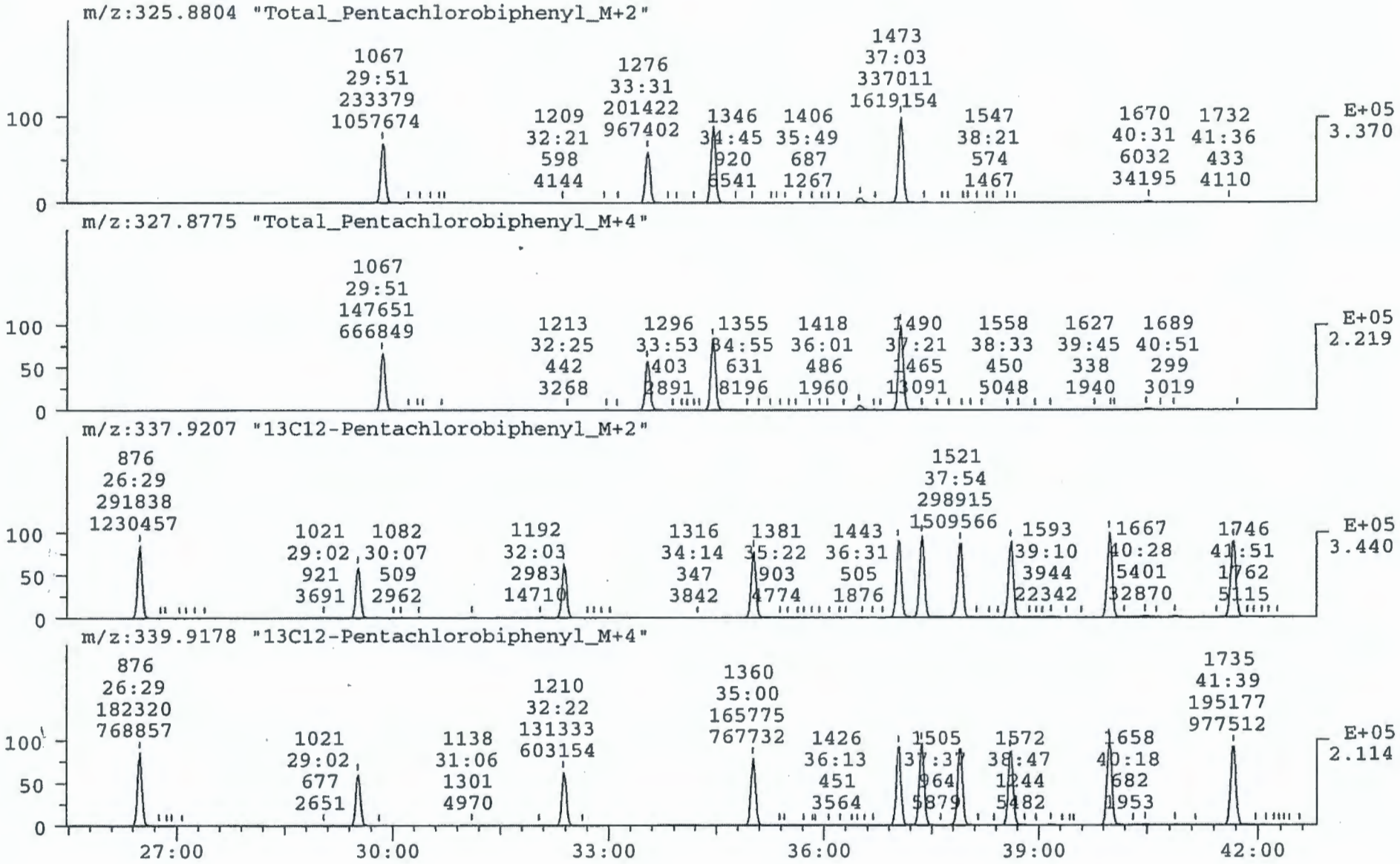
```
CHRO:  a07030741                                07-Mar-07   Elapse:  26:54.9      900
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45    2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   820 > 980             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



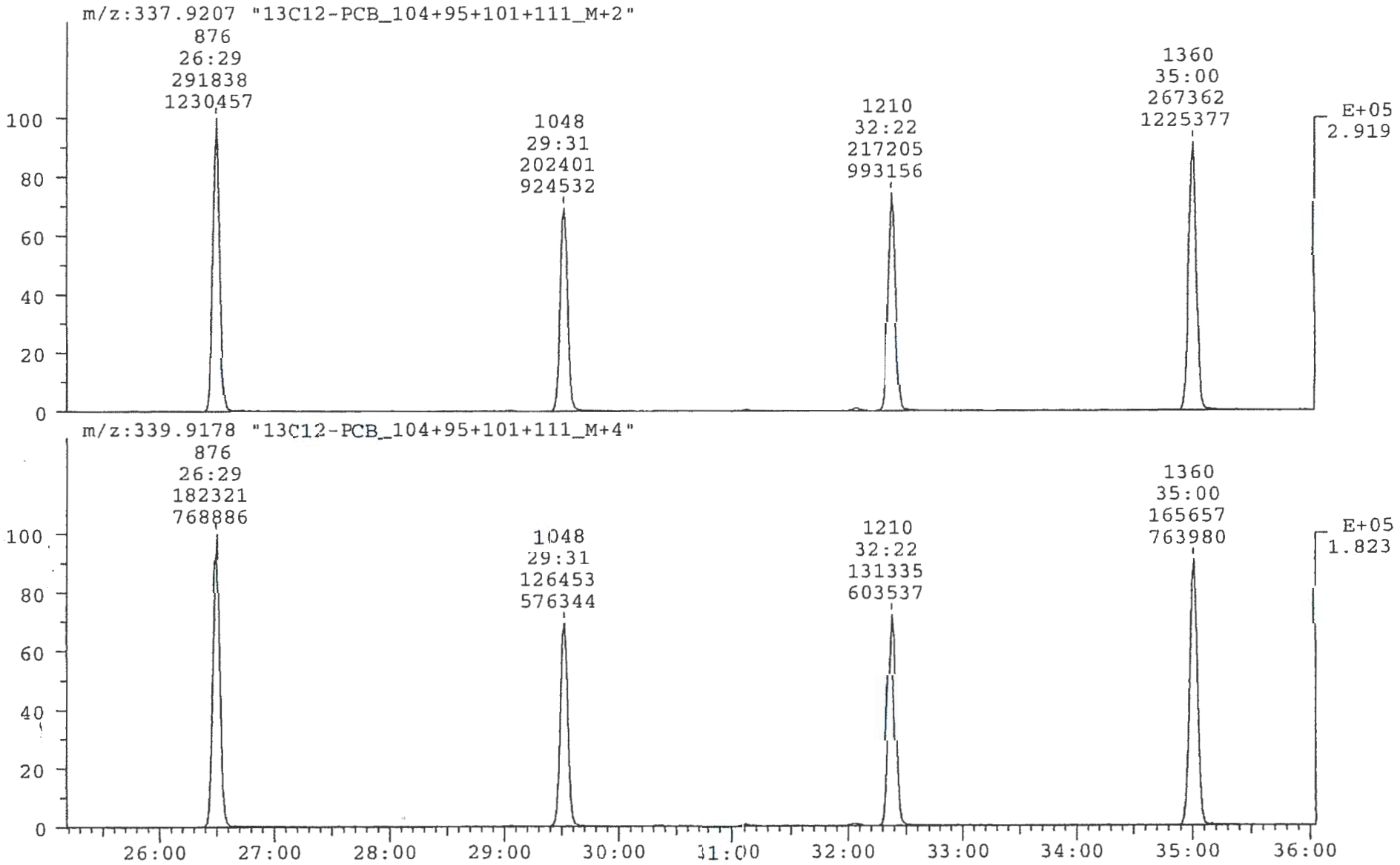
```
CHRO:  a07030741                              07-Mar-07   Elapse:  30:20      1095
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1070 > 1120         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



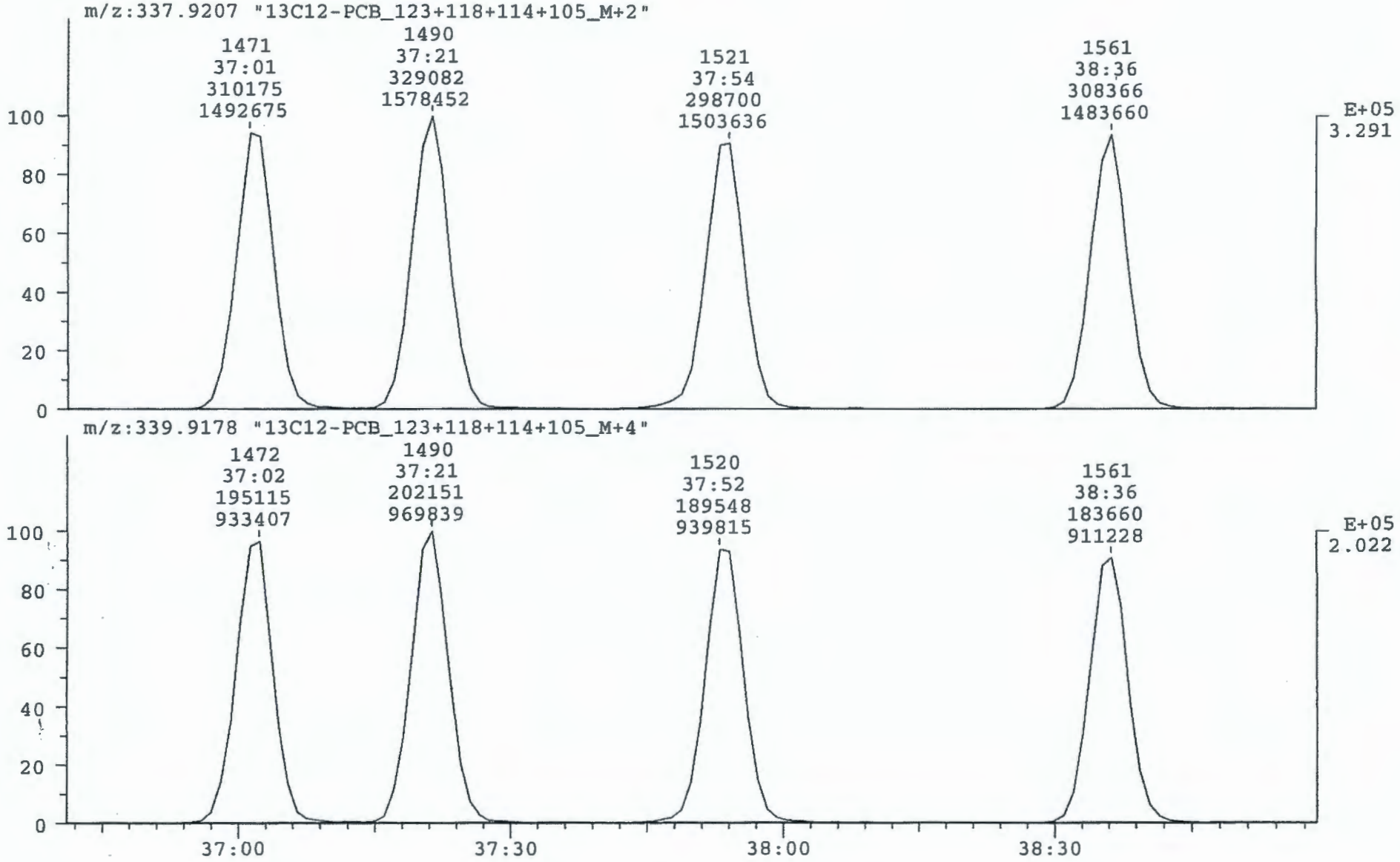
CHRO: a07030741 07-Mar-07 Elapse: 34:07 1310
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 818 > 1799 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



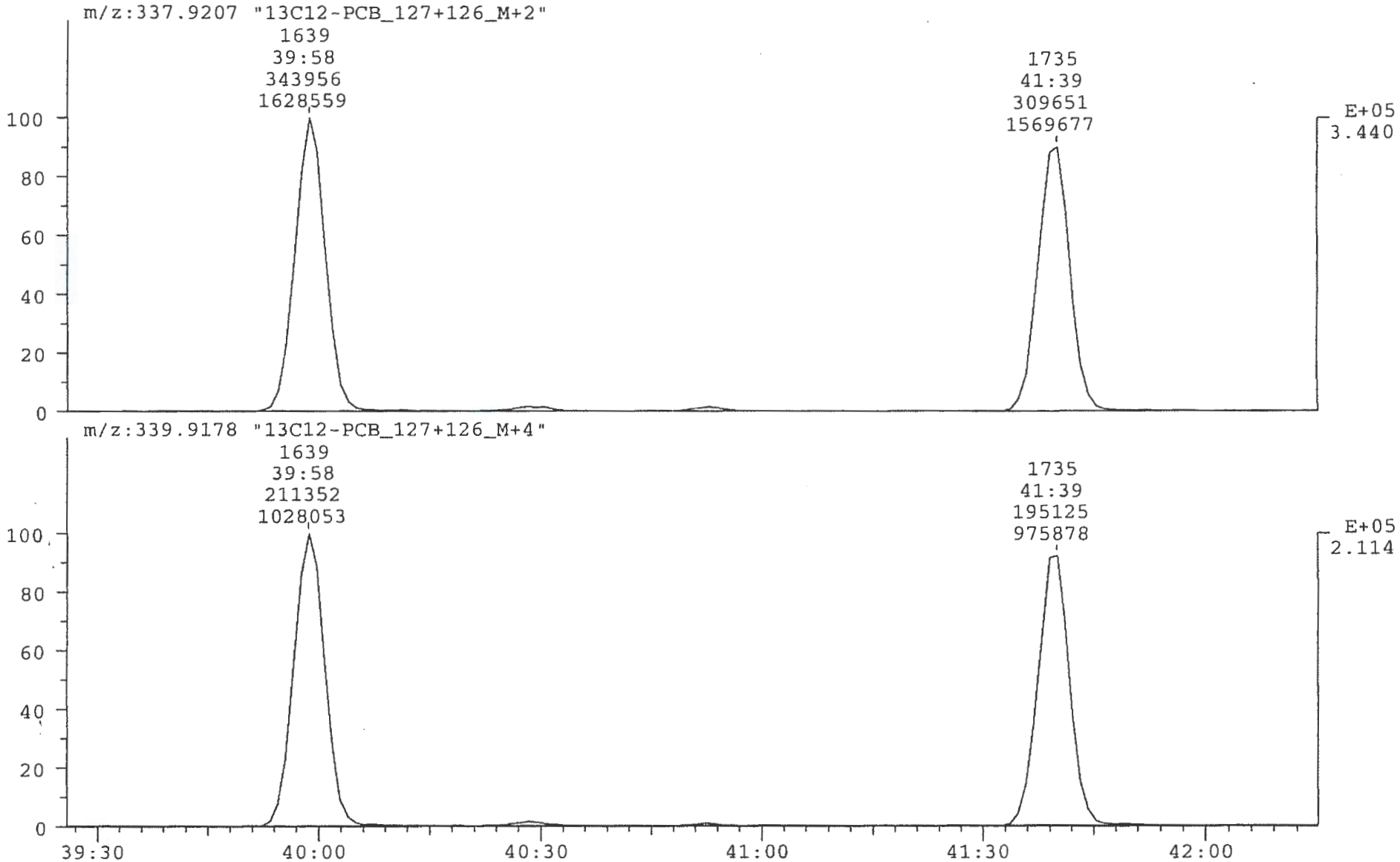
```
CHRO:  a07030741                                07-Mar-07   Elapse:  30:36      1110
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   802 > 1419            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



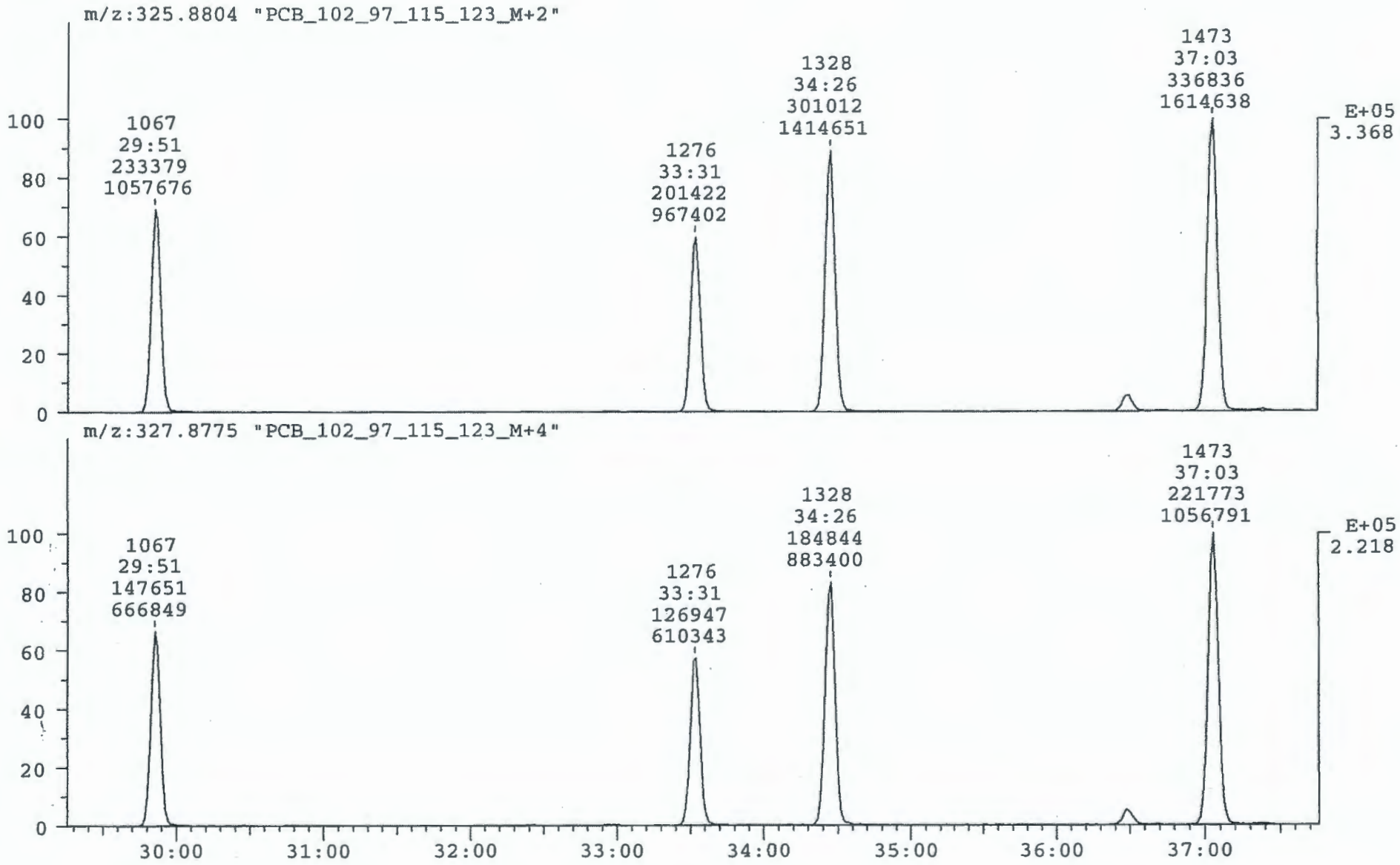
CHRO: a07030741 07-Mar-07 Elapse: 37:49 1517
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1452 > 1582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



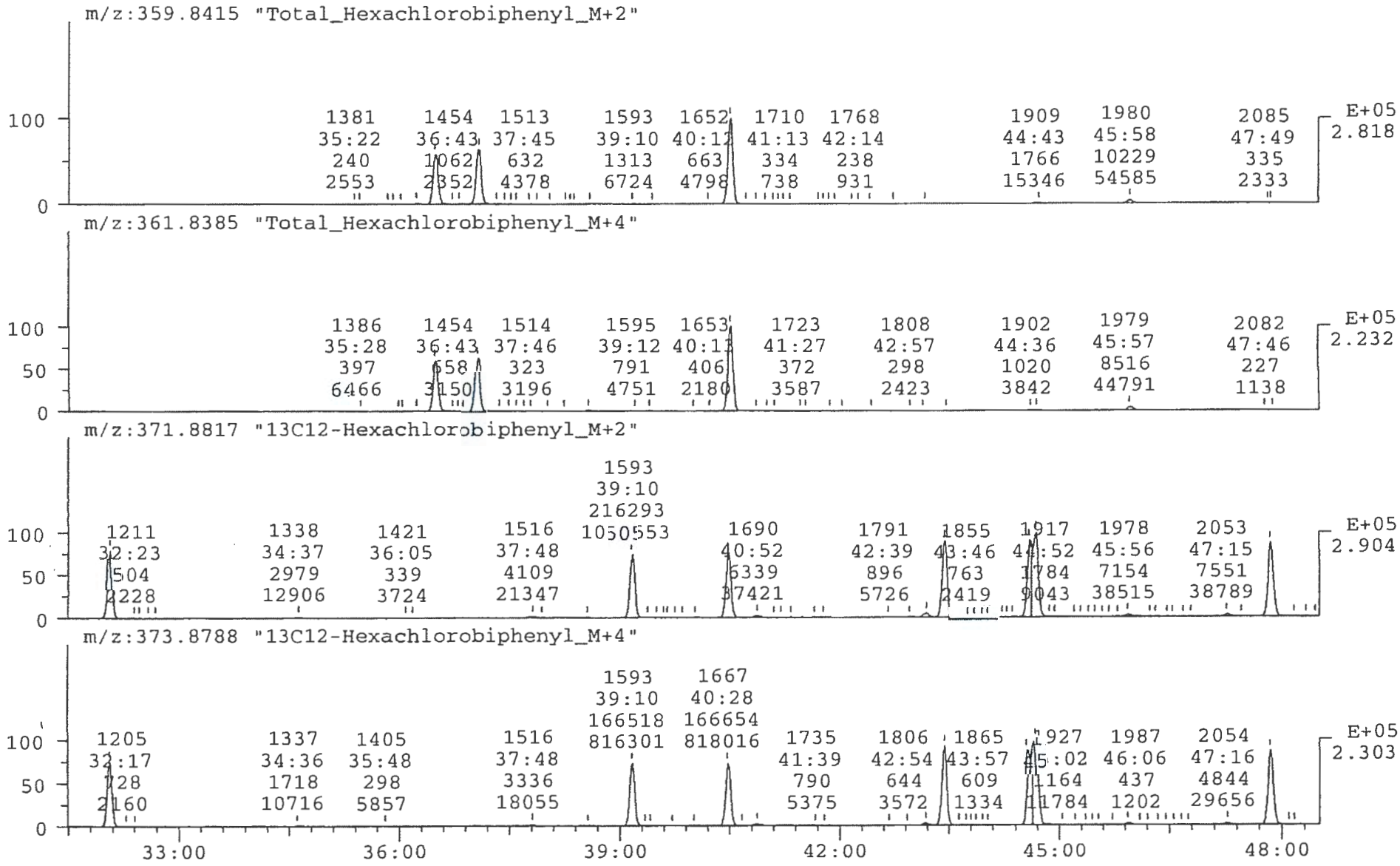
CHRO: a07030741 07-Mar-07 Elapse: 40:50 1688
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1608 > 1768 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030741                                07-Mar-07  Elapse:  33:28      1273
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG          Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm     Label wndw:   1033 > 1513          Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

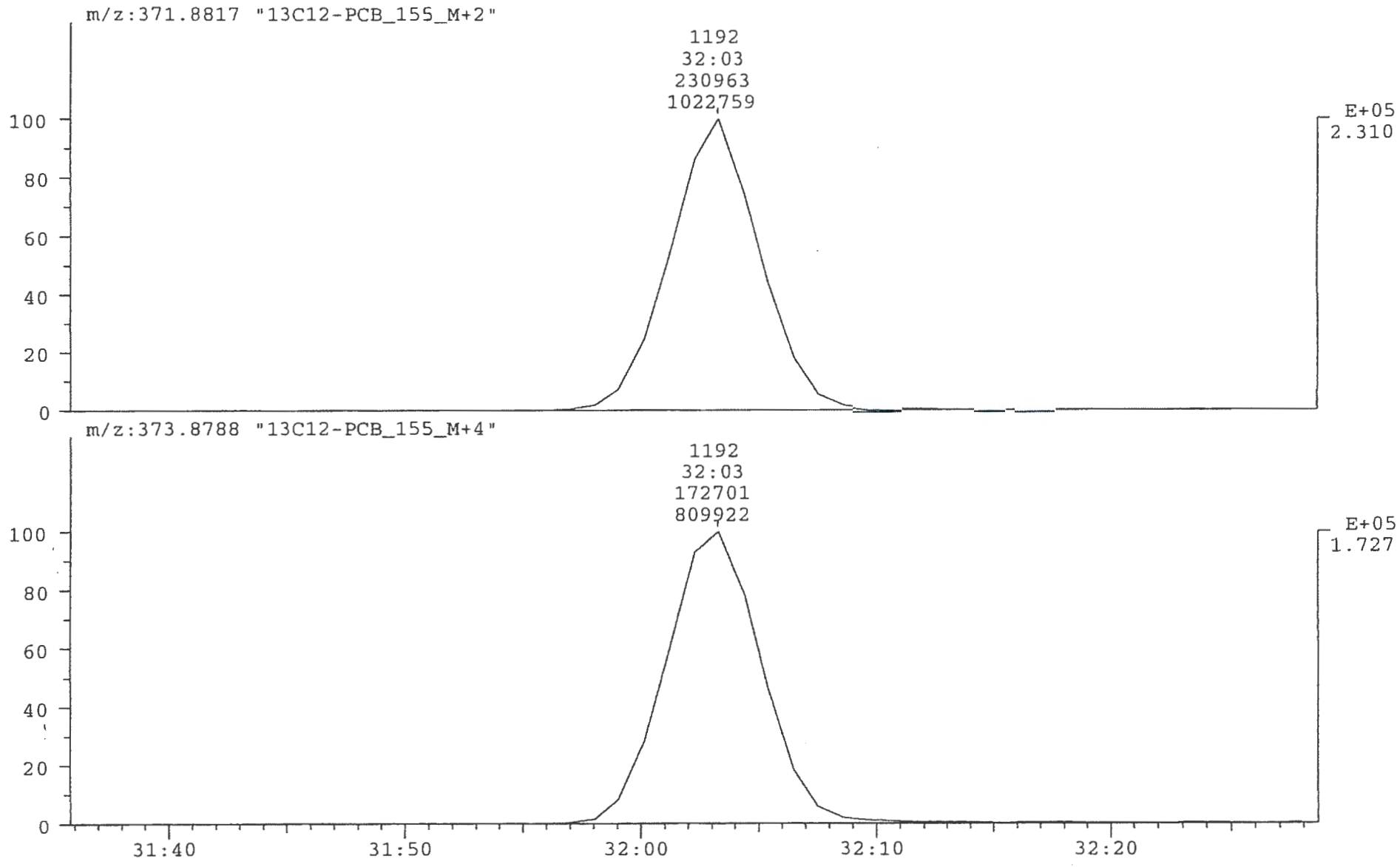


CHRO: a07030741 07-Mar-07 Elapse: 39:58 1639
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1160 > 2123 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

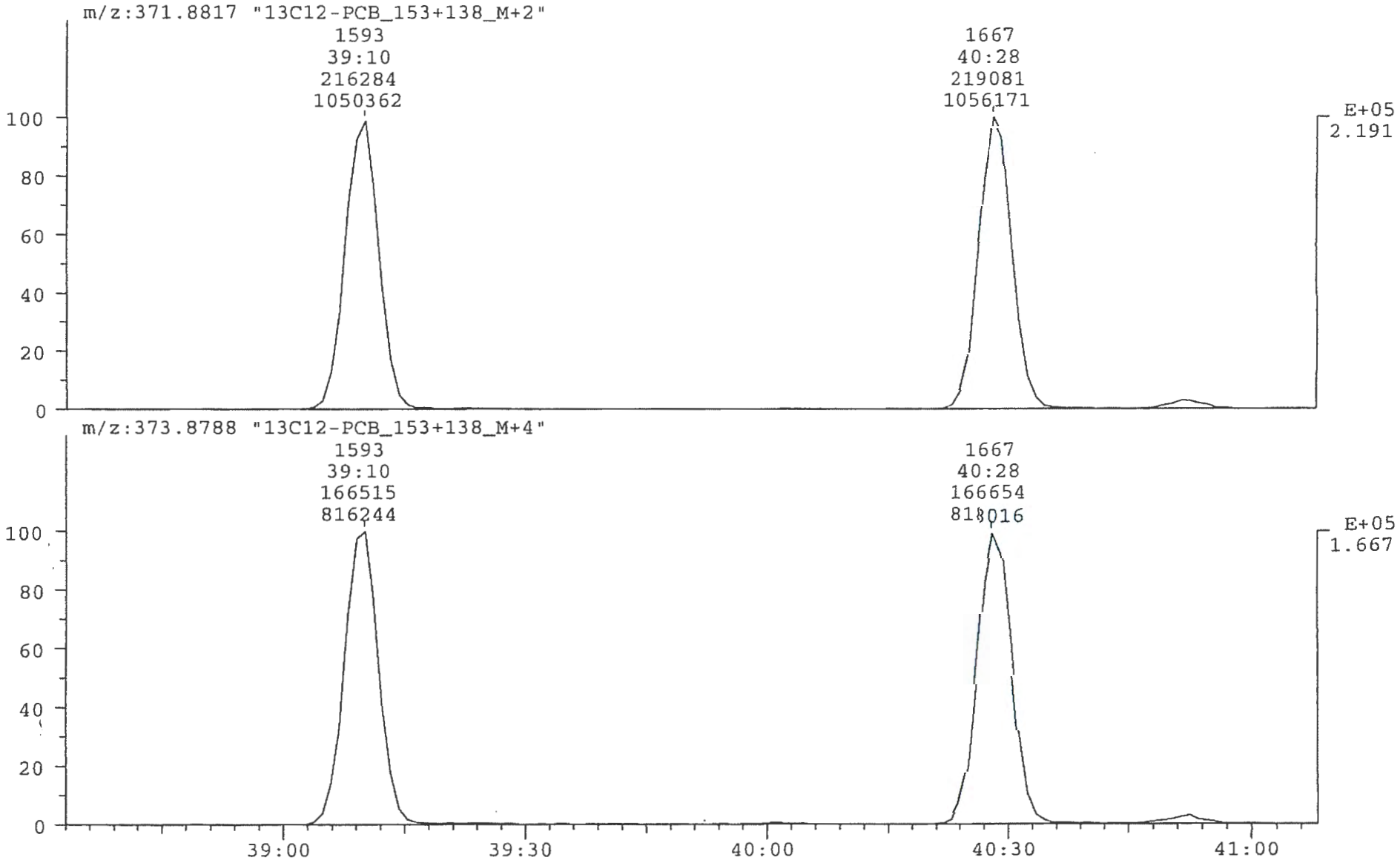


2369

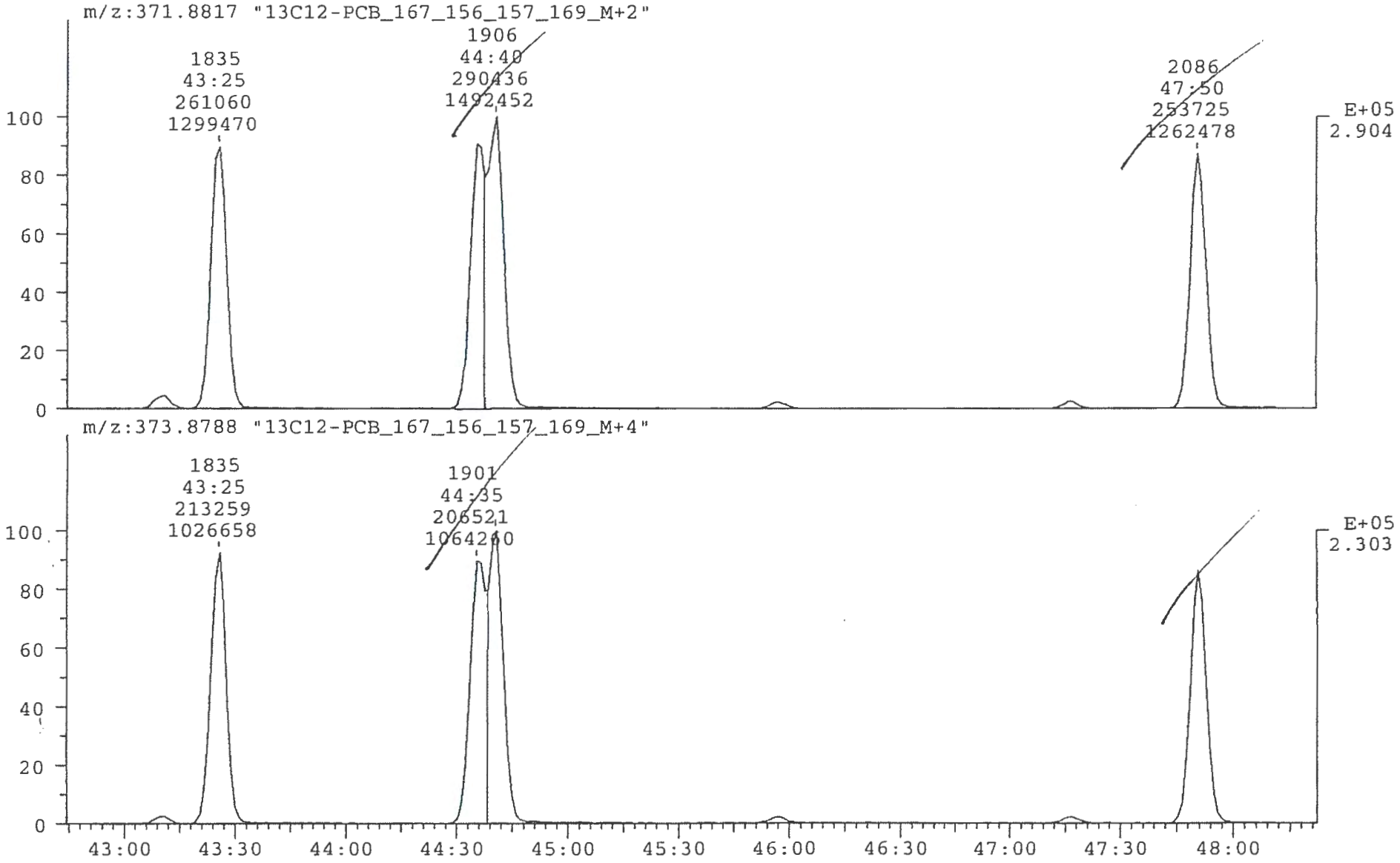
```
CHRO:  a07030741                                07-Mar-07  Elapse:  32:02      1191
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1166 > 1216         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



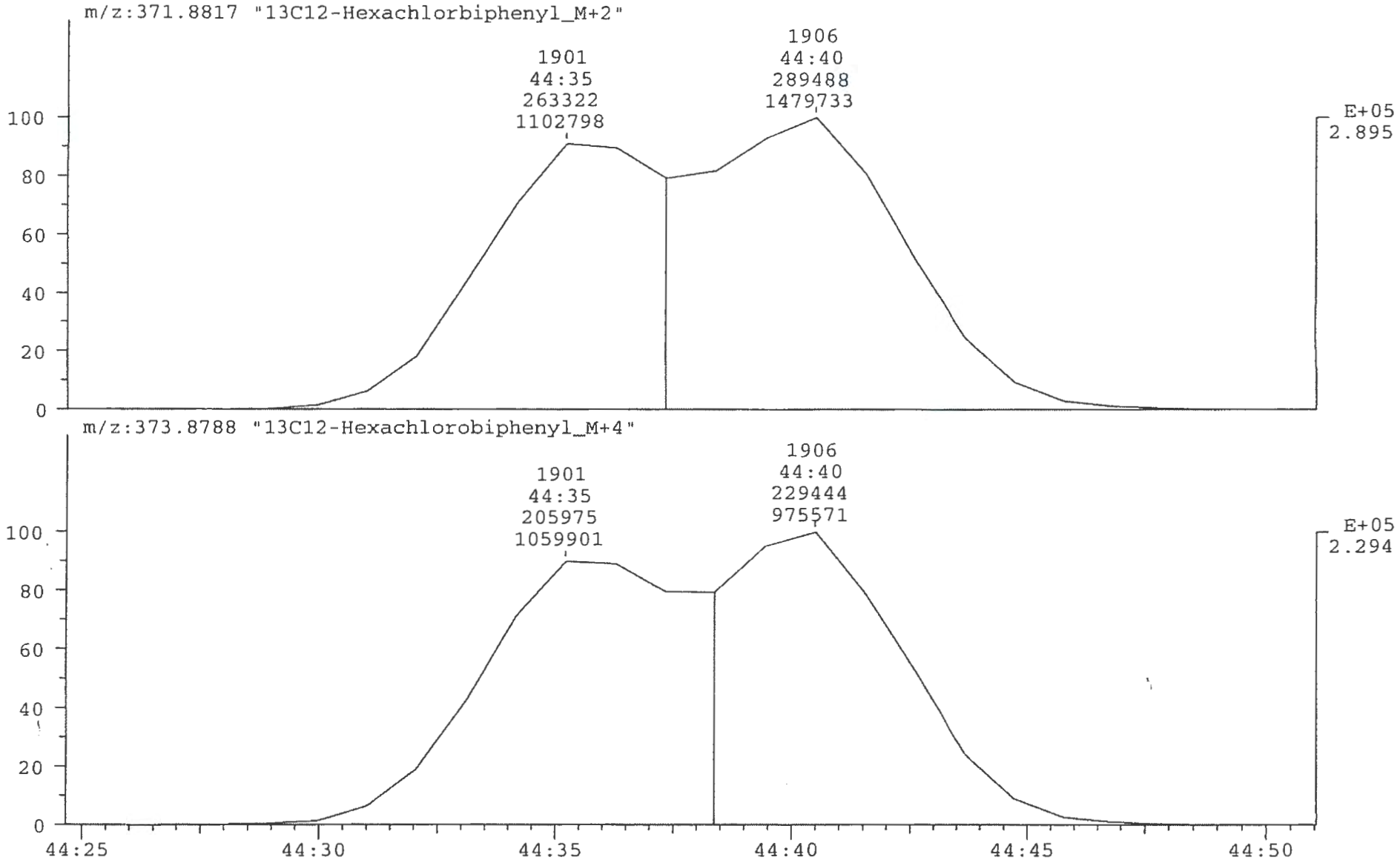
```
CHRO:  a07030741                                07-Mar-07   Elapse:  39:50      1631
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1558 > 1705           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



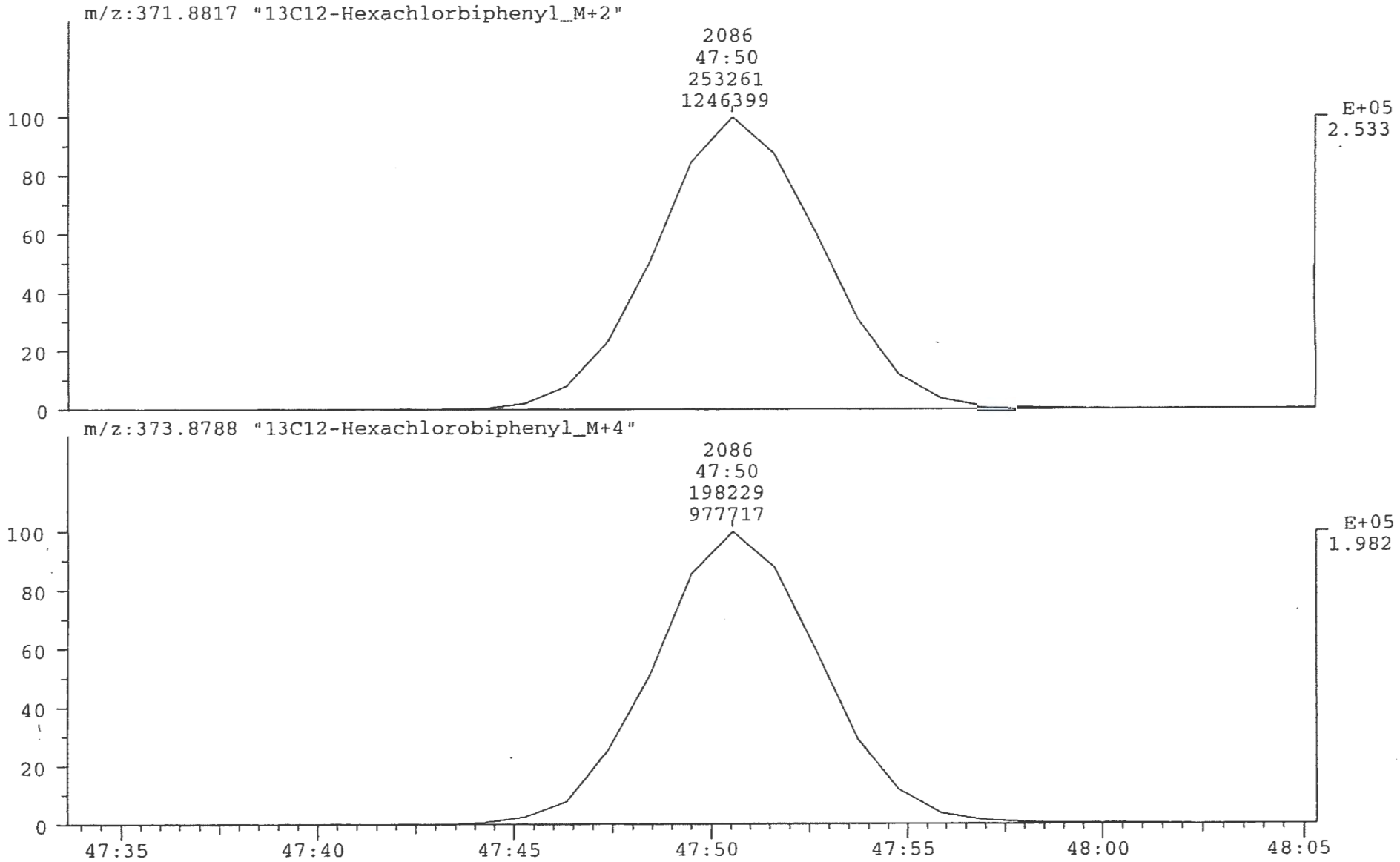
CHRO: a07030741 07-Mar-07 Elapse: 45:38 1961
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1796 > 2116 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



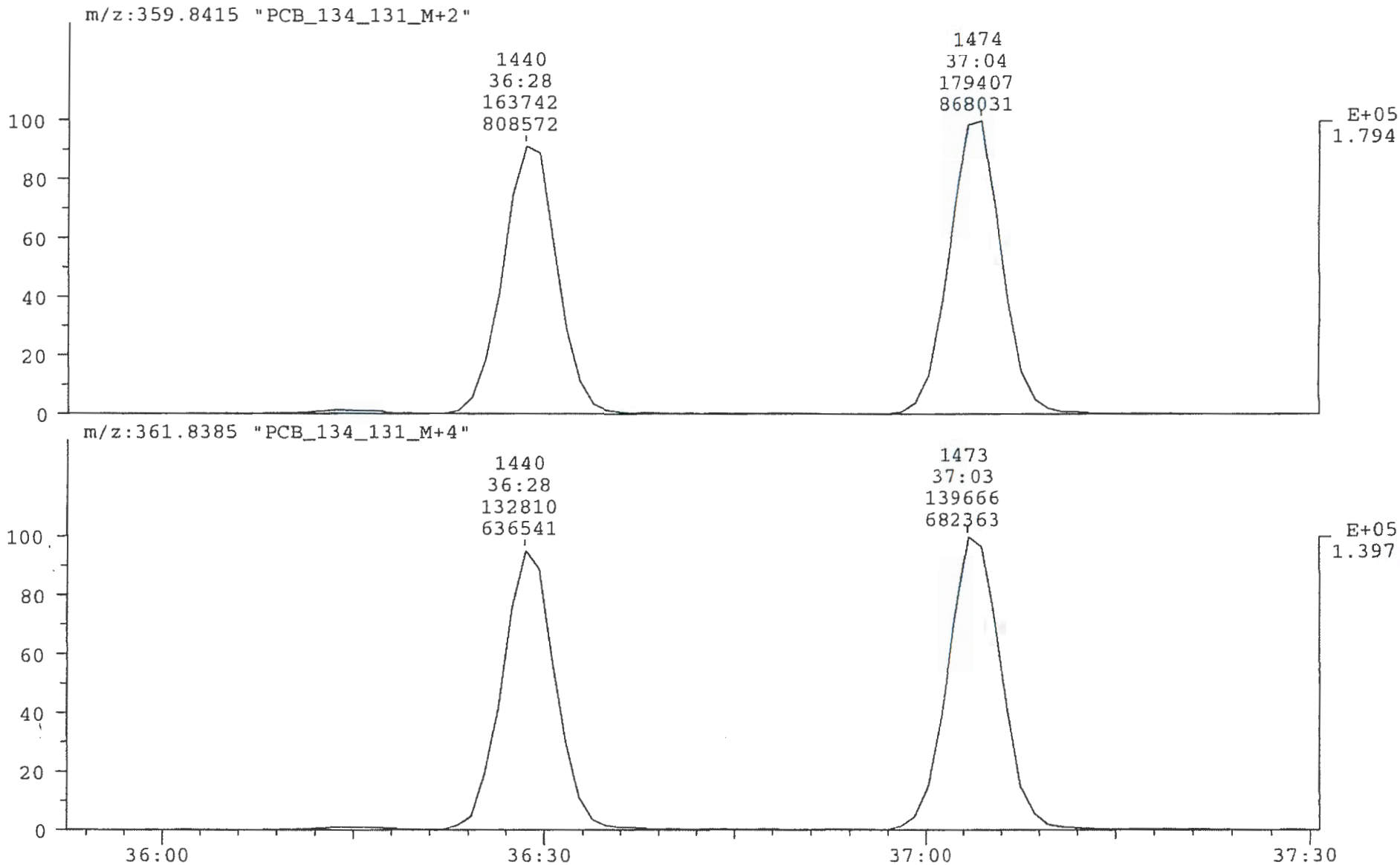
```
CHRO:  a07030741                                07-Mar-07   Elapse:  56:10      2555
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1891 > 1916           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



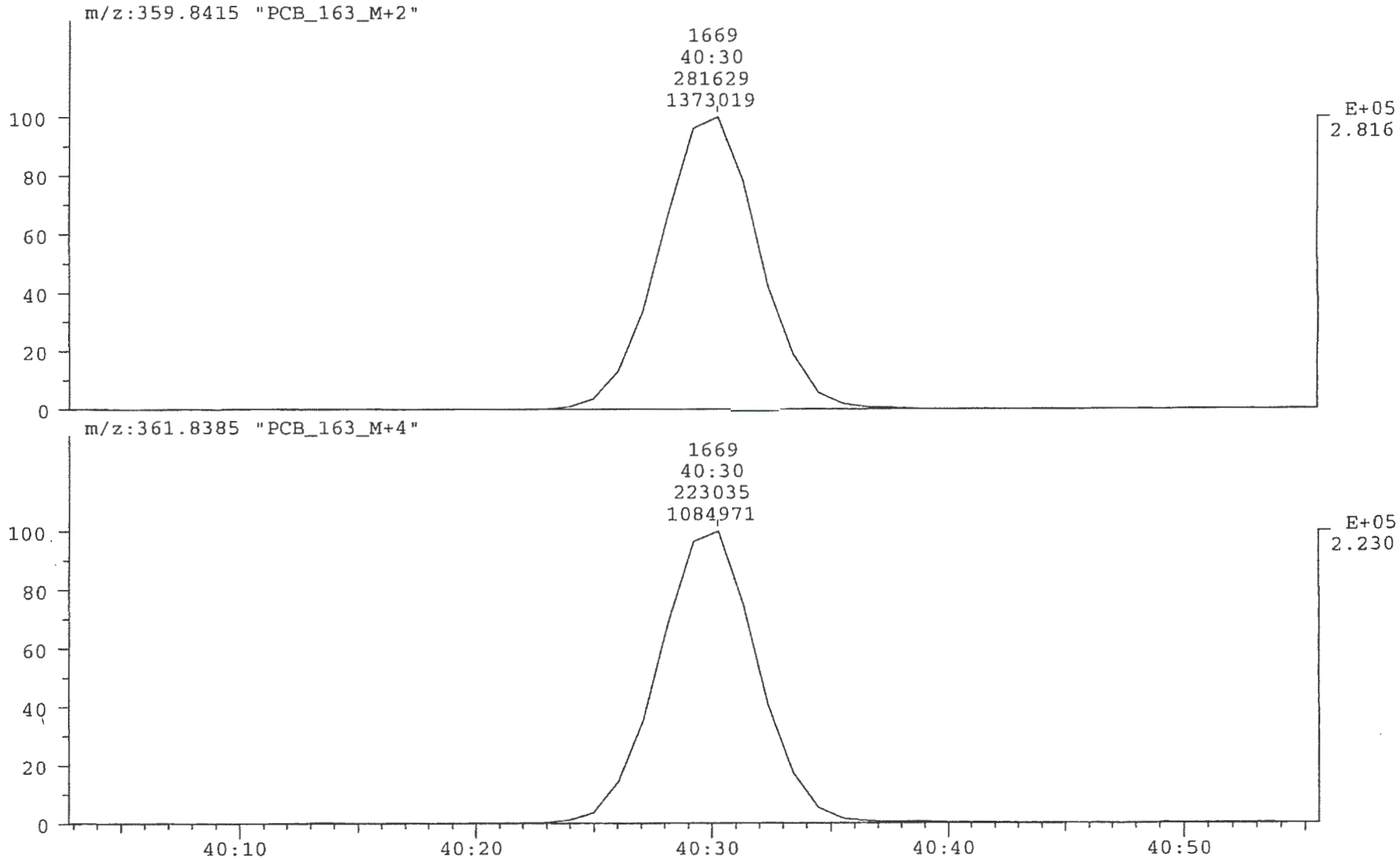
```
CHRO:  a07030741                              07-Mar-07   Elapse:  56:10      2555
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2070 > 2100         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



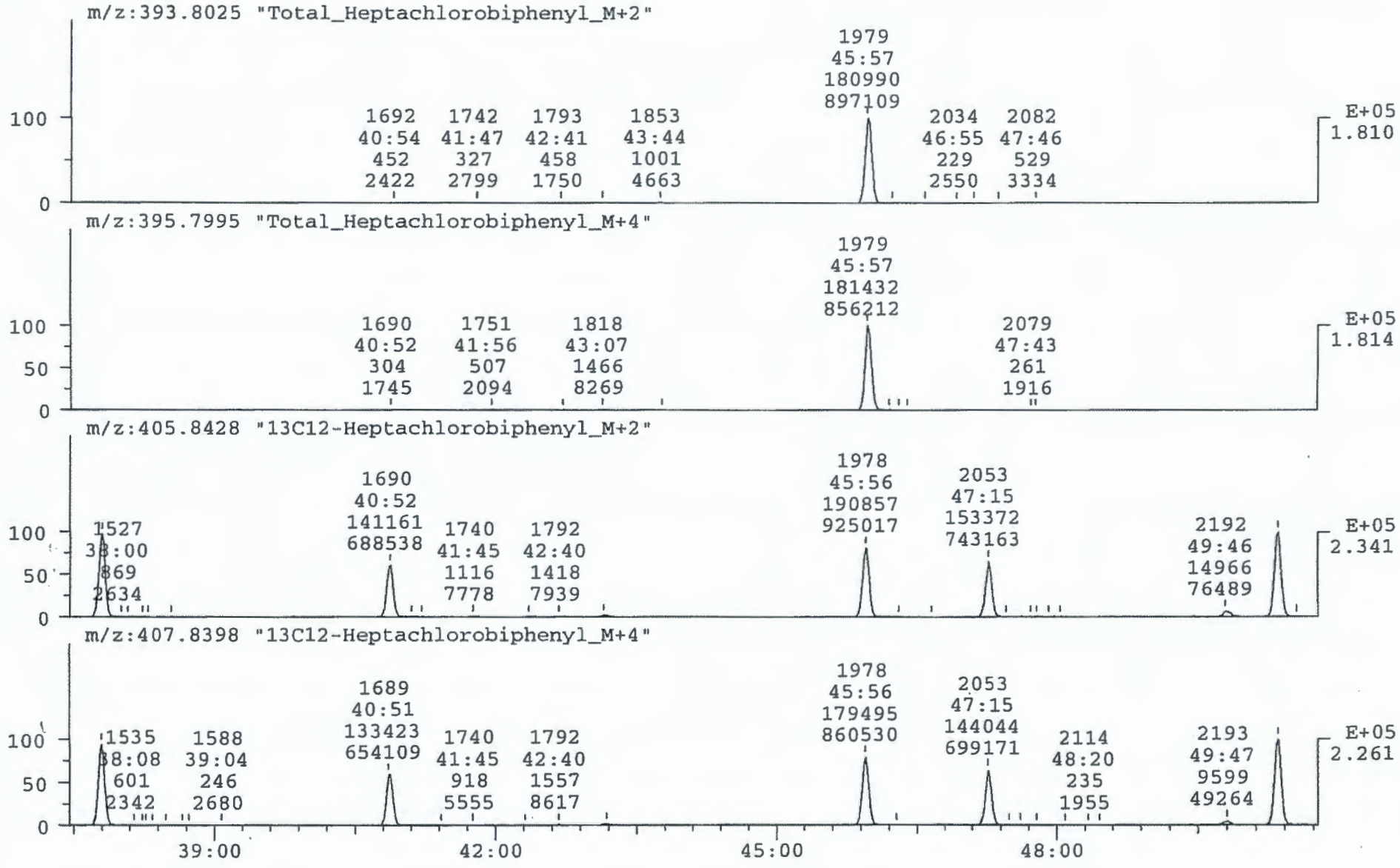
```
CHRO:  a07030741                              07-Mar-07   Elapse:  37:04      1474
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1409 > 1499         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



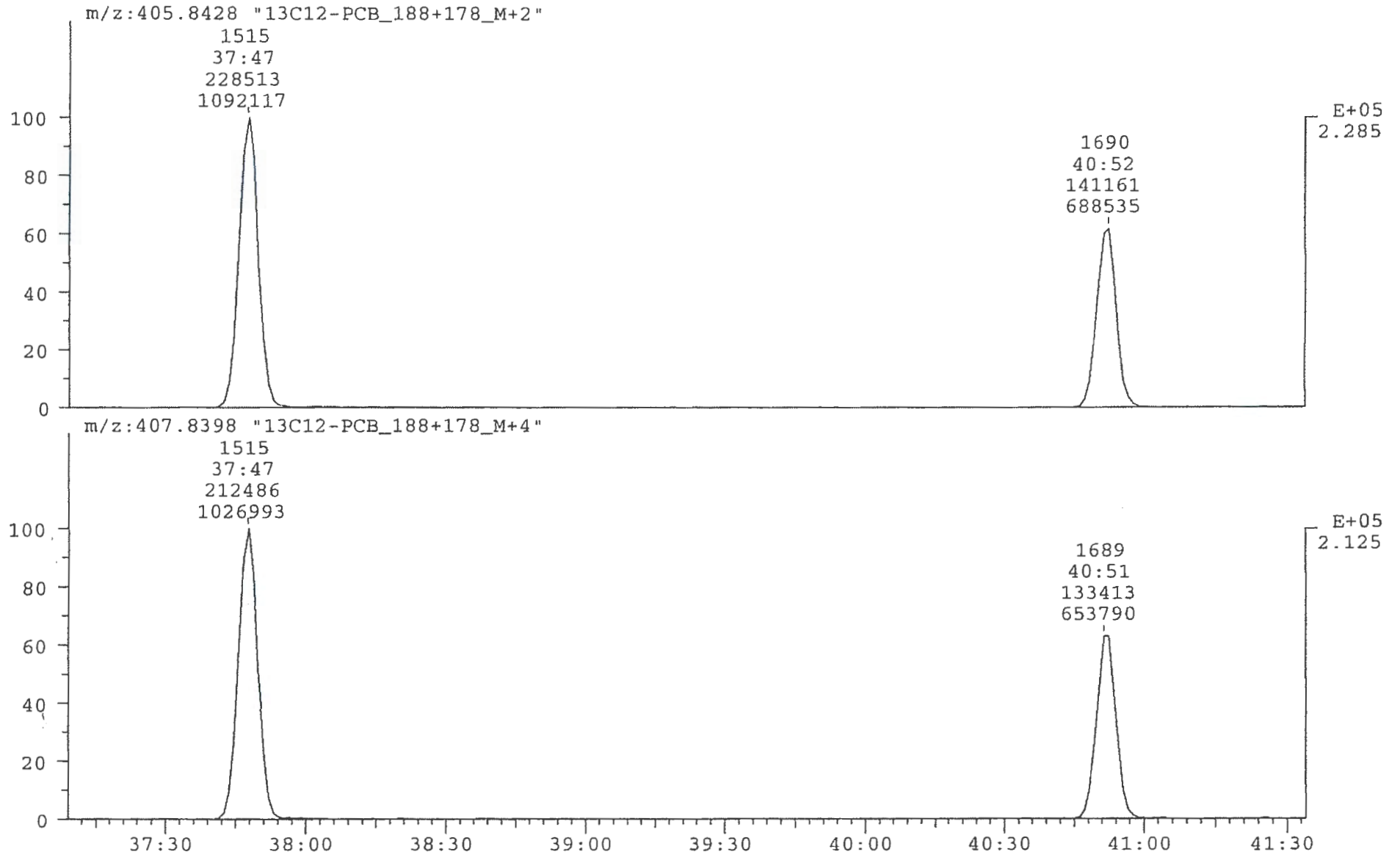
```
CHRO:  a07030741                                07-Mar-07   Elapse:  40:29      1668
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1643 > 1693           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



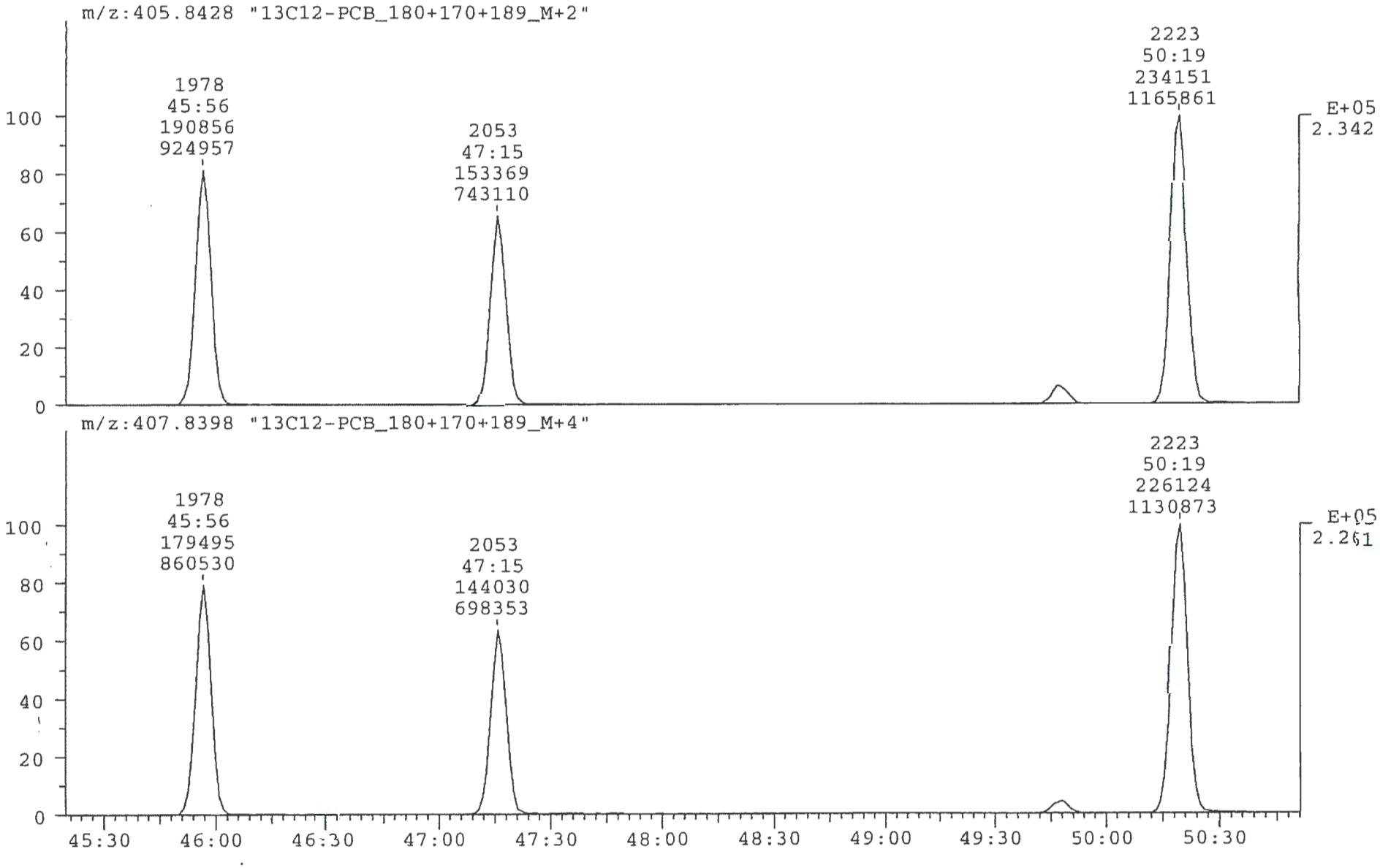
CHRO: a07030741 07-Mar-07 Elapse: 44:05 1873
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1495 > 2247 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



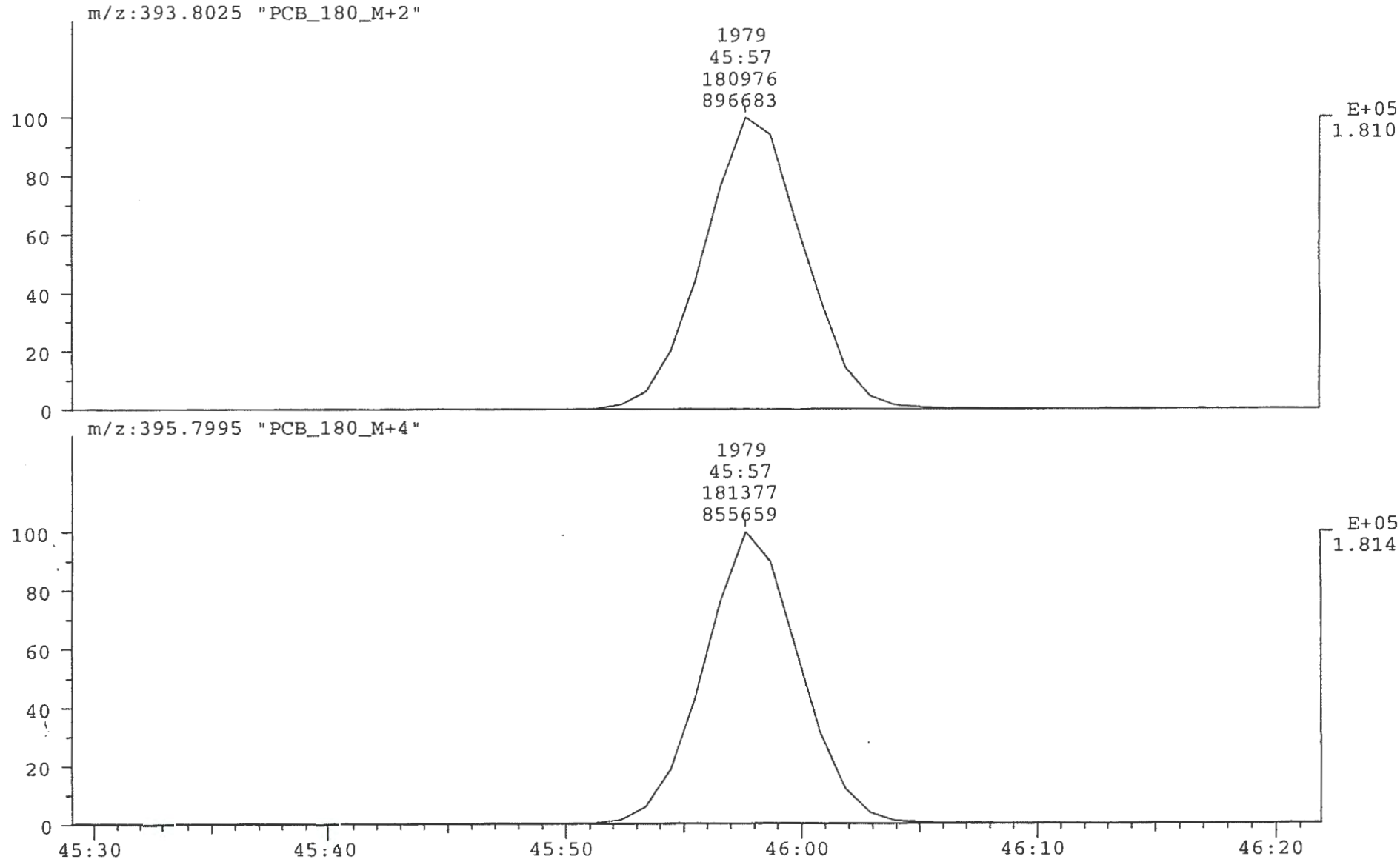
```
CHRO:  a07030741                                07-Mar-07   Elapse:  39:20      1603
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  6
Peak:  100.00  ppm     Label wndw:   1478 > 1729            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



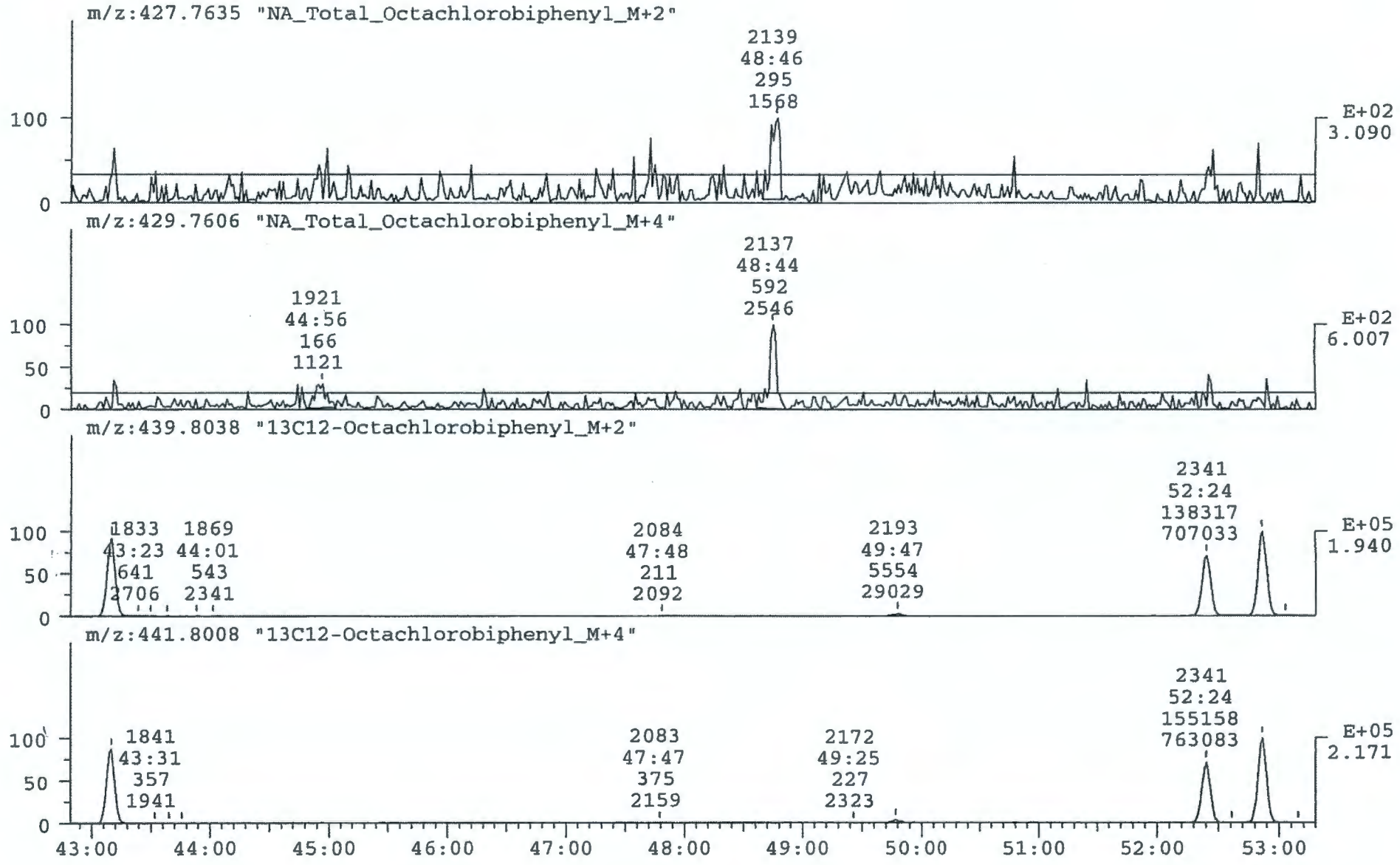
CHRO: a07030741 07-Mar-07 Elapse: 48:08 2103
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1943 > 2253 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



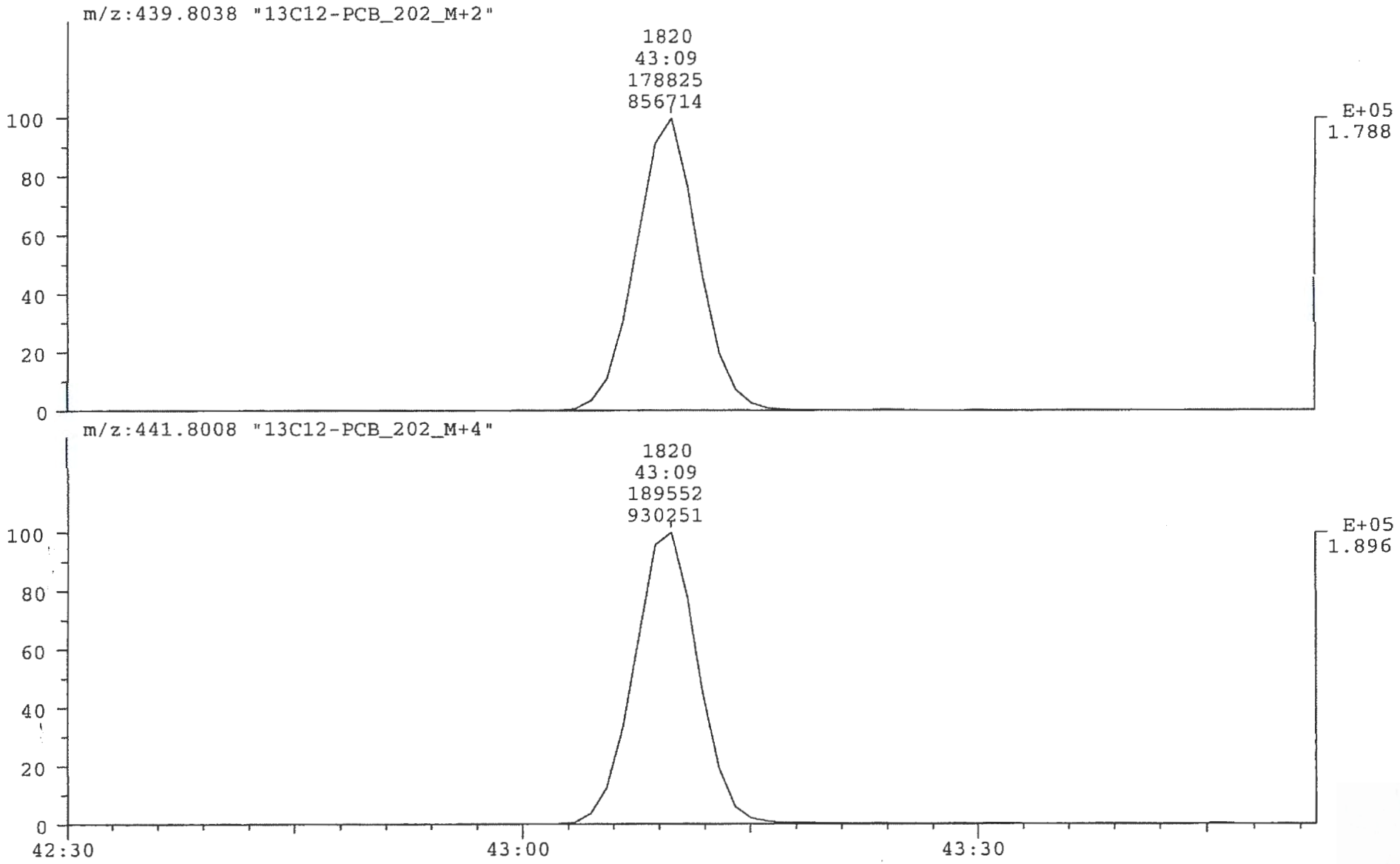
```
CHRO:  a07030741                                07-Mar-07   Elapse:  45:55      1977
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2503
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1952 > 2002           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



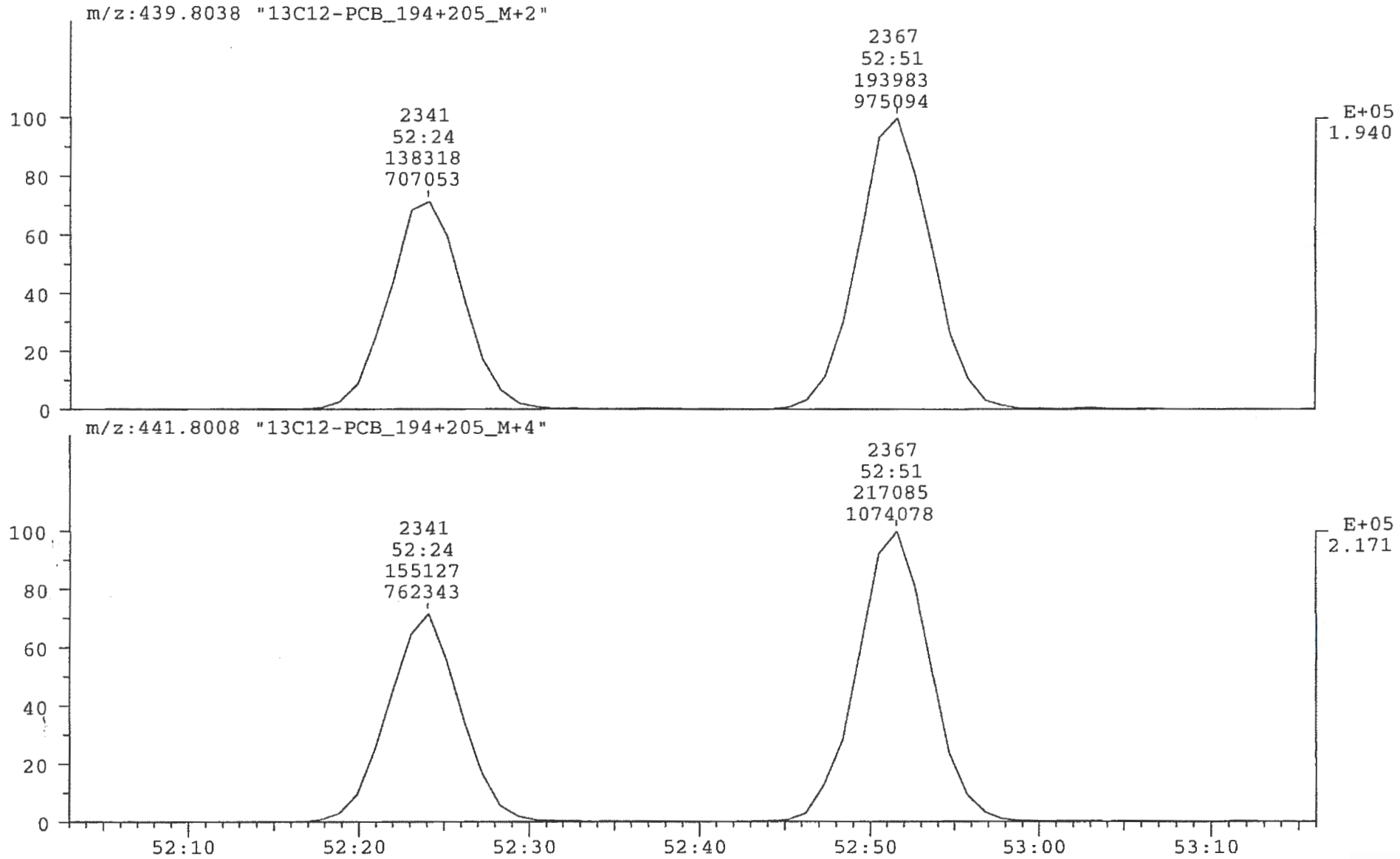
CHRO: a07030741 07-Mar-07 Elapse: 48:03 2098
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1800 > 2392 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



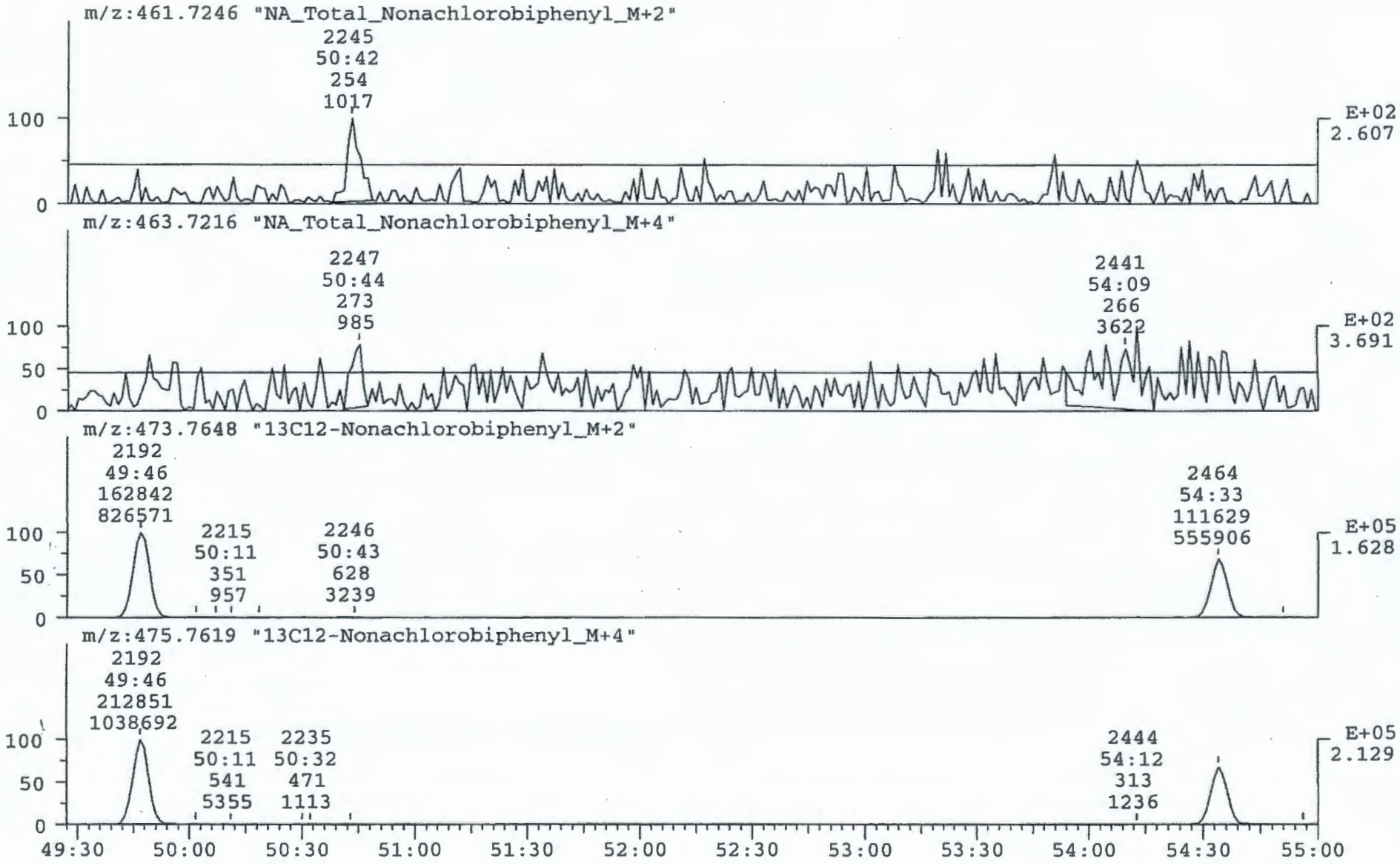
```
CHRO:  a07030741                              07-Mar-07   Elapse:  43:07      1818
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1782 > 1860         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



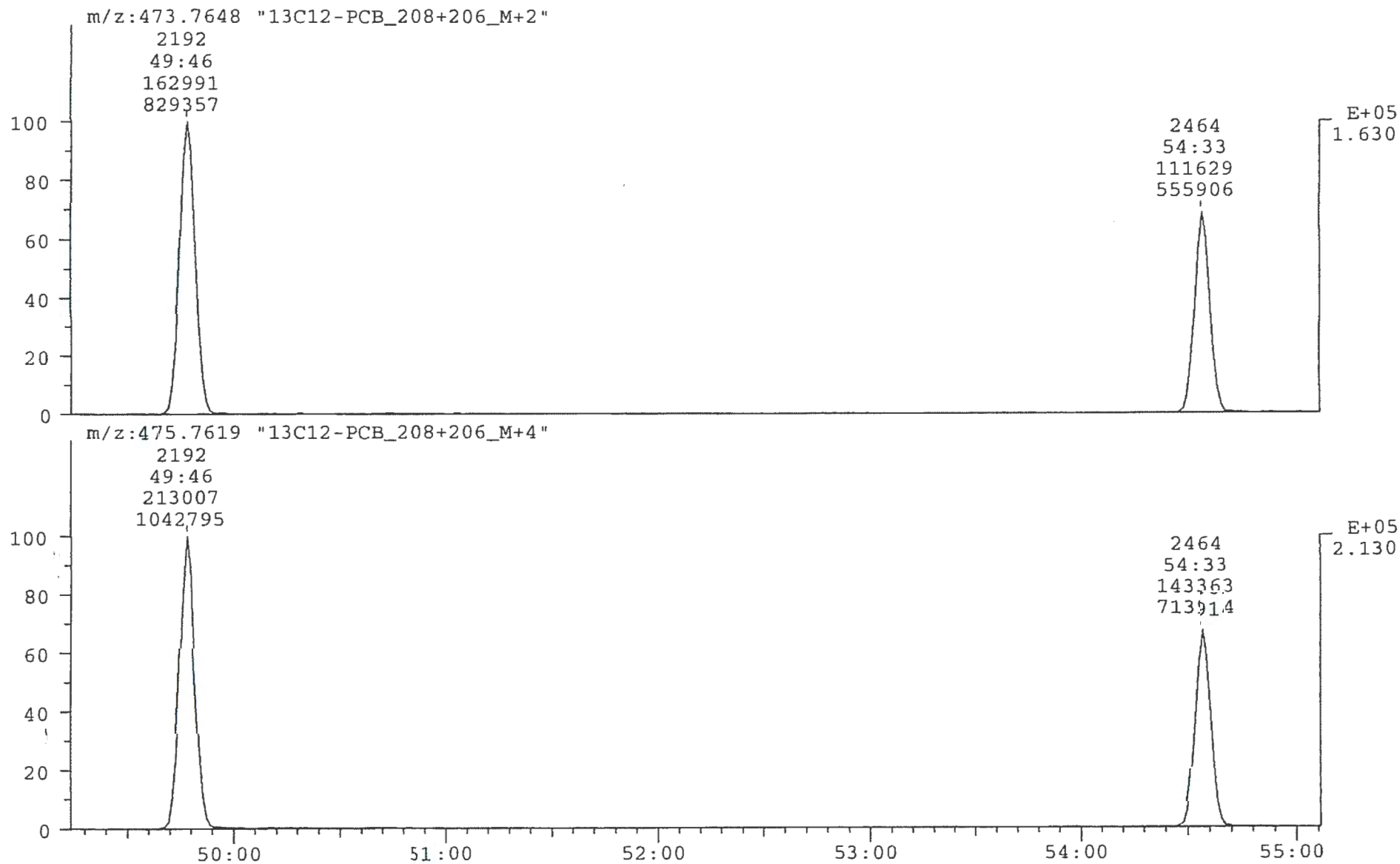
```
CHRO:  a07030741                                07-Mar-07   Elapse:  52:38      2355
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2321 > 2390           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



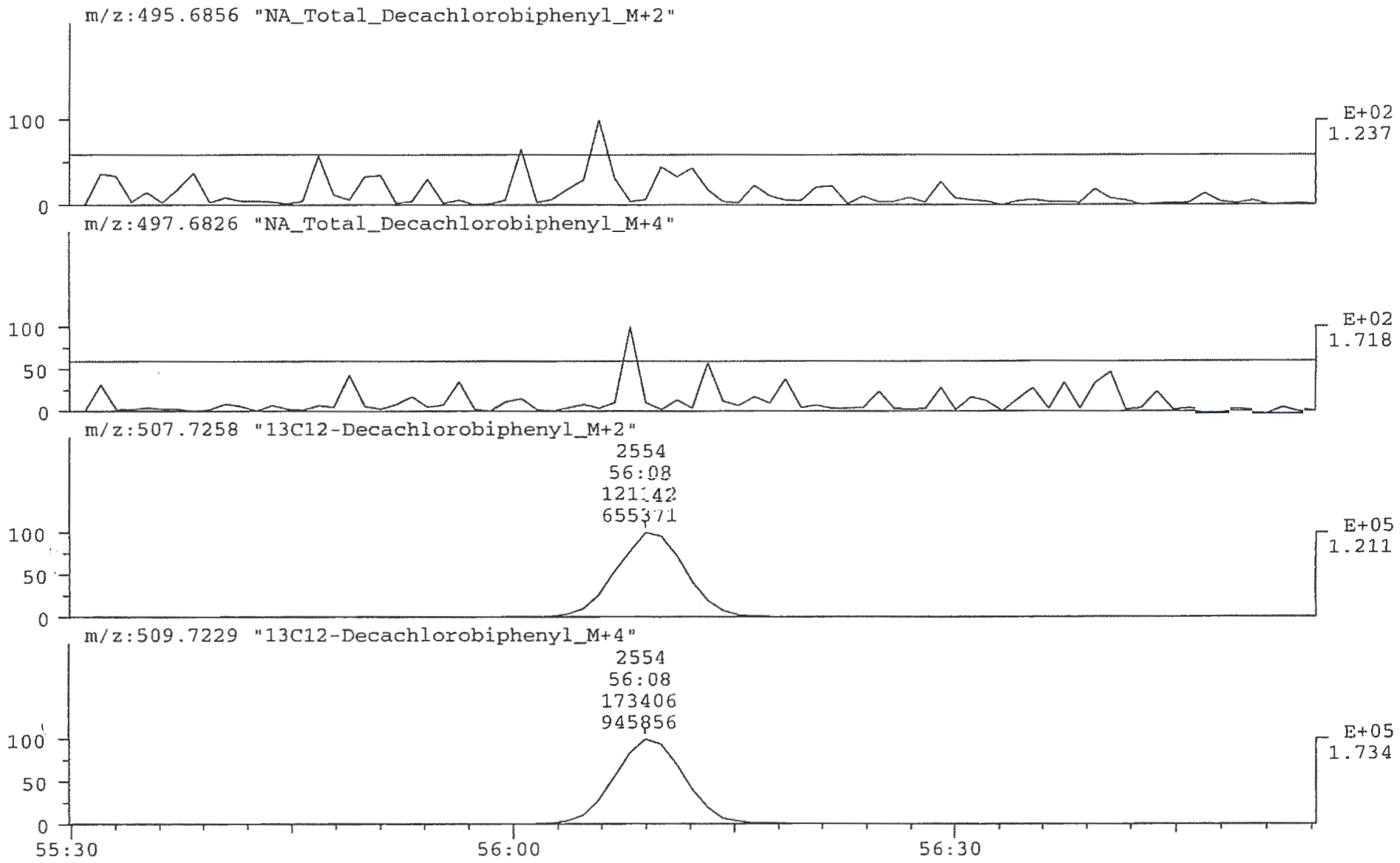
CHRO: a07030741 07-Mar-07 Elapse: 52:13 2331
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 20:08:45 2603
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2173 > 2489 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030741                          07-Mar-07   Elapse:  52:12      2330
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1           Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 RT Mix4/Run1
Oper:  DCG          Client:  STL Knoxville            Inlet :  GC     Vial   6
Peak:  100.00  ppm     Label wndw:   2165 > 2495      Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3           Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030741                          07-Mar-07   Elapse:  56:12      2557
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1           Start :  20:08:45   2603
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                      Study :  1668 RT Mix4/Run1
Oper:  DCG            Client:  STL Knoxville          Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2517 > 2597     Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3          Label :  -3, 3.0
Disp:  Height  Area
```



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

ICL Version: 10.710
File name: a07030741
Study: 1668 RT Mix4/Run1
Sample: WO=2990:75Mix4 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 6
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 4 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.0000	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	257.0000
FVINLET	250.0000	FVSRC	846.0000	FWIN	0.7000
GCTC	201.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.3431	HVANAL	1315.0000
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	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2605.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7900	TCURR	0.7813
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 07-Mar-07 20:08:45.1

Autosampler has injected sample from vial 6
MID Time Window 1: Resolution is 8227
MID Time Window 2: Resolution is 9607
MID Time Window 3: Resolution is 8573
MID Time Window 4: Resolution is 9642
Analysis stopped at: 07-Mar-07 21:05:47.6 (run time 57.02 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030742.	Prep Date		SDG No	
Analysis ID	96249	Prep Exp Date		Date Received	
Analysis Date	03/08/07 01:17	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	203	328	81	131	0.62 *	/	
	13C12-PCB 1	12:12	00:00	0	2280934	717234	867775	280575	3.18	AVV/AVV	
	13C12-PCB 3	14:25	00:00	0	2252395	694273	736661	230266	3.24	ABV/AVV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	350	208	140	83	1.69	/	
	13C12-PCB 4	14:43	00:00	0	971339	587422	320263	197663	1.65	ABV/AVV	
	13C12-PCB 9	16:40	00:00	0	1641496	1010157	484531	301517	1.62	ABV/AVV	
	13C12-PCB 8	17:33	00:00	0	1668402	1032368	463265	283615	1.62	AVV/AVV	
	13C12-PCB 15	20:41	00:00	0	1646036	1035778	424284	270192	1.59	ABV/AVV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	288	220	115	88	1.31 *	/	
	PCB 25 (BZ)	23:06	00:00	0	789685	775386	189051	182632	1.02	ABV/ABV	D
	PCB 21 (BZ)	23:55	00:00	0	747204	726019	176701	168967	1.03	AVV/AVV	D
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	510	273	204	109	1.87 *	/	
	13C12-PCB 19	17:54	00:00	0	562923	542638	154225	147296	1.04	AVV/AVV	
	13C12-PCB 32	21:10	00:00	0	1047366	977839	259507	241945	1.07	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1578909	1509645	385665	366512	1.05	AVV/ABV	
	13C12-PCB 28	23:42	00:00	0	1469537	1390969	354323	334755	1.06	AVV/AVV	
	13C12-PCB 37	27:47	00:00	0	1390029	1300898	307478	290990	1.07	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	253	283	101	113	0.89 *	/	
	PCB 69 (BZ)	25:57	00:00	0	1057175	1342445	251131	324391	0.79	ABV/ABV	
	PCB 47 (BZ)	26:35	00:00	0	894261	1139494	200915	263284	0.78	ABV/AVV	M
	PCB 42 (BZ)	27:08	00:00	0	751998	946618	170366	220625	0.79	AVV/AVV	D
	PCB 64 (BZ)	27:50	00:00	0	1154670	1458298	256800	331944	0.79	ABV/ABV	D
	PCB 70 (BZ)	30:22	00:00	0	1169672	1502907	258508	325014	0.78	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	130	123	52	49	1.06 *	/	
	13C12-PCB 54	21:02	00:00	0	503167	618821	127010	159360	0.81	ABV/ABV	
	13C12-PCB 52	25:33	00:00	0	761648	955683	173165	223654	0.80	ABV/ABV	
	13C12-PCB 79	33:29	00:00	0	1063846	1330245	227077	286610	0.80	ABV/ABV	
	13C12-PCB 81	34:31	00:00	0	962825	1223048	201938	252420	0.79	ABV/ABV	D
	13C12-PCB 77	35:06	00:00	0	993452	1242071	199286	255556	0.80	ABV/ABV	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	175	185	70	74	0.95 *	/	
	PCB 102 (BZ)	29:51	00:00	0	969619	608168	218281	139261	1.59	ABV/ABV	
	PCB 97 (BZ)	33:31	00:00	0	882004	565165	182144	117916	1.56	ABV/ABV	DM
	PCB 115 (BZ)	34:26	00:00	0	1278649	809518	275556	169900	1.58	AVV/AVV	DM

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030742.	Prep Date		SDG No	
Analysis ID	96249	Prep Exp Date		Date Received	
Analysis Date	03/08/07 01:17	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	PCB 123 (BZ)	37:02	00:00	0	1502028	966616	324305	209152	1.55	AVV/AVV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	153	148	61	59	1.03 *	/	
	13C12-PCB 104	26:28	00:00	0	1144247	709494	261331	159842	1.61	ABV/ABV	D
	13C12-PCB 95	29:30	00:00	0	848602	517533	186414	114783	1.64	AVV/ABV	D
	13C12-PCB 101	32:22	00:00	0	889713	552653	190537	118484	1.61	AVV/AVV	
	13C12-PCB 111	34:59	00:00	0	1099089	693761	233381	148676	1.58	ABV/ABV	
	13C12-PCB 123	37:01	00:00	0	1372561	867875	284392	180379	1.58	ABV/ABV	D
	13C12-PCB 118	37:20	00:00	0	1435990	890412	306464	189347	1.61	AVV/AVV	D
	13C12-PCB 114	37:53	00:00	0	1374433	858782	279026	177795	1.60	AVV/AVV	D
	13C12-PCB 105	38:35	00:00	0	1346490	850237	279562	179355	1.58	ABV/ABV	D
	13C12-PCB 127	39:58	00:00	0	1480812	943851	303158	193861	1.57	AVV/AVV	
	13C12-PCB 126	41:39	00:00	0	1432756	900270	294860	177632	1.59	ABV/AVV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	208	145	83	58	1.43 *	/	
	PCB 134 (BZ)	36:28	00:00	0	751941	585846	154895	120853	1.28	AVV/AVV	D
	PCB 131 (BZ)	37:03	00:00	0	796089	629984	165363	134143	1.26	AVV/ABV	D
	PCB 163 (BZ)	40:29	00:00	0	1262474	991997	267159	208705	1.27	ABV/ABV	M
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	140	288	56	115	0.49 *	/	
	13C12-PCB 155	32:02	00:00	0	927029	731129	196237	161073	1.27	ABV/ABV	D
	13C12-PCB 153	39:09	00:00	0	969215	753689	203387	157807	1.29	AVV/ABV	D
	13C12-PCB 138	40:27	00:00	0	972145	763396	198306	155597	1.27	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1197643	927545	247029	196044	1.29	AVV/AVV	
	13C12-PCB 156	44:34	00:00	0	999808	788307	238808	184665	1.27	ABV/ABV	D
	13C12-PCB 157	44:40	00:00	0	1353938	1045337	259173	196245	1.30	AVB/AVB	M
	13C12-PCB 169	47:50	00:00	0	1145390	876830	230102	175997	1.31	ABV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	115	330	46	132	0.35 *	/	
	PCB 180 (BZ)	45:57	00:00	0	826312	782381	165903	158944	1.06	ABV/ABV	DM
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	153	160	61	64	0.95	/	
	13C12-PCB 188	37:47	00:00	0	989089	939255	212794	199623	1.05	ABV/ABV	D
	13C12-PCB 178	40:52	00:00	0	635349	605863	128489	121103	1.05	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	835060	782937	171290	161262	1.07	ABV/ABV	
	13C12-PCB 170	47:15	00:00	0	667423	628419	134021	125933	1.06	AVV/ABV	
	13C12-PCB 189	50:18	00:00	0	1096502	1035997	220363	202487	1.06	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	120	95	48	38	1.26 *	/	
	13C12-PCB 202	43:09	00:00	0	770775	837222	157720	173617	0.92	ABV/ABV	D
	13C12-PCB 194	52:23	00:00	0	653835	717331	133783	145501	0.91	ABV/ABV	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030742.	Prep Date		SDG No	
Analysis ID	96249	Prep Exp Date		Date Received	
Analysis Date	03/08/07 01:17	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

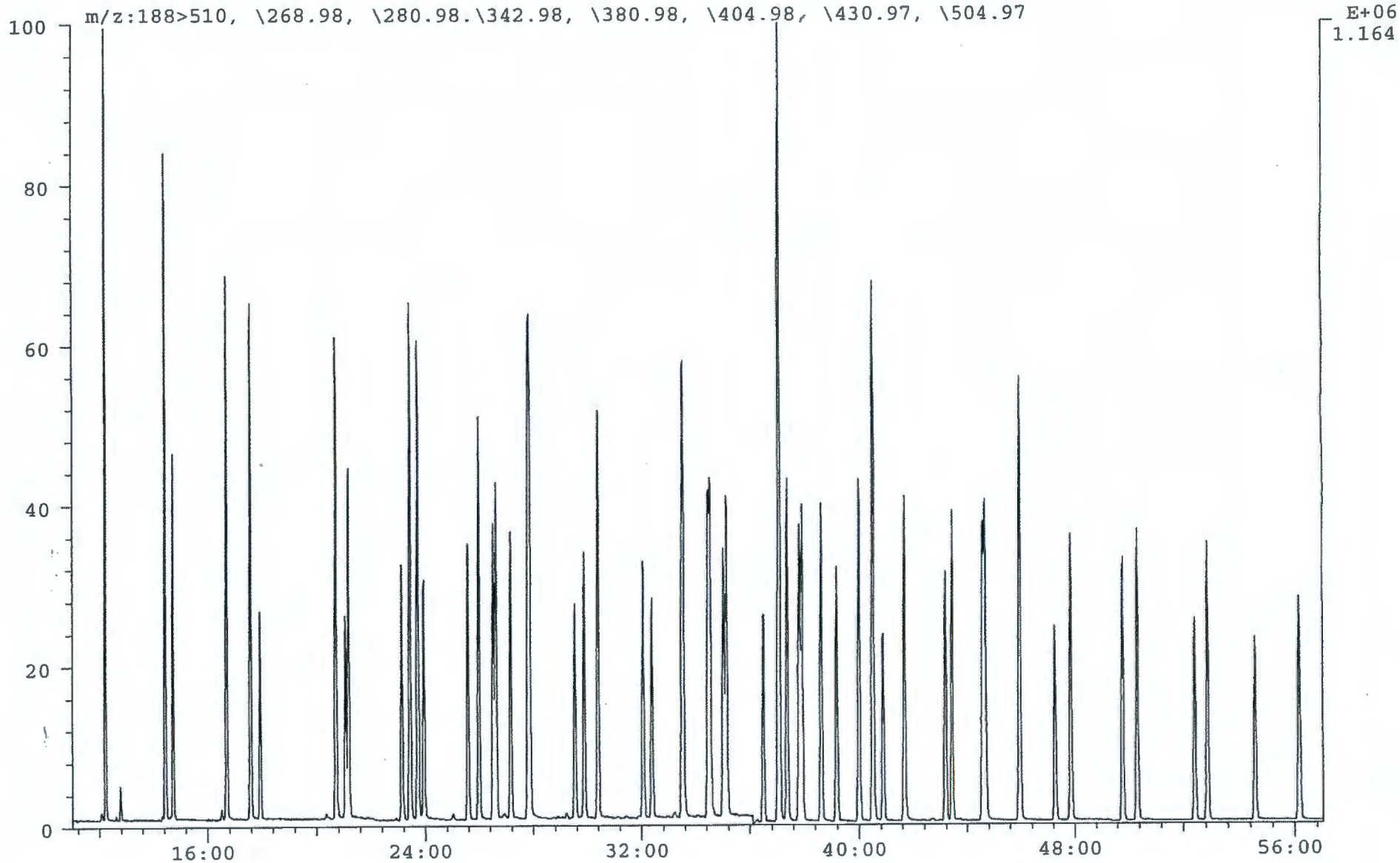
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	13C12-PCB 205	52:51	00:00	0	903616	997582	182742	205642	0.91	AVV/AVV	
462					461.7246	463.7216	461.7246	463.7216	0.65-0.89		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
474					473.7648	475.7619	473.7648	475.7619	0.65-0.89		
	Noise	00:00	00:00	0	143	163	57	65	0.88	/	
	13C12-PCB 208	49:47	00:00	0	768827	961758	153687	185242	0.80	AVV/AVV	
	13C12-PCB 206	54:33	00:00	0	515249	651789	101435	129075	0.79	ABV/ABV	
496					495.6856	497.6826	495.6856	497.6826	0.59-0.79		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
508					507.7258	509.7229	507.7258	509.7229	0.59-0.79		
	Noise	00:00	00:00	0	123	110	49	44	1.11 *	/	
	13C12-PCB 209	56:09	00:00	0	615697	854443	113437	157433	0.72	ABV/ABV	

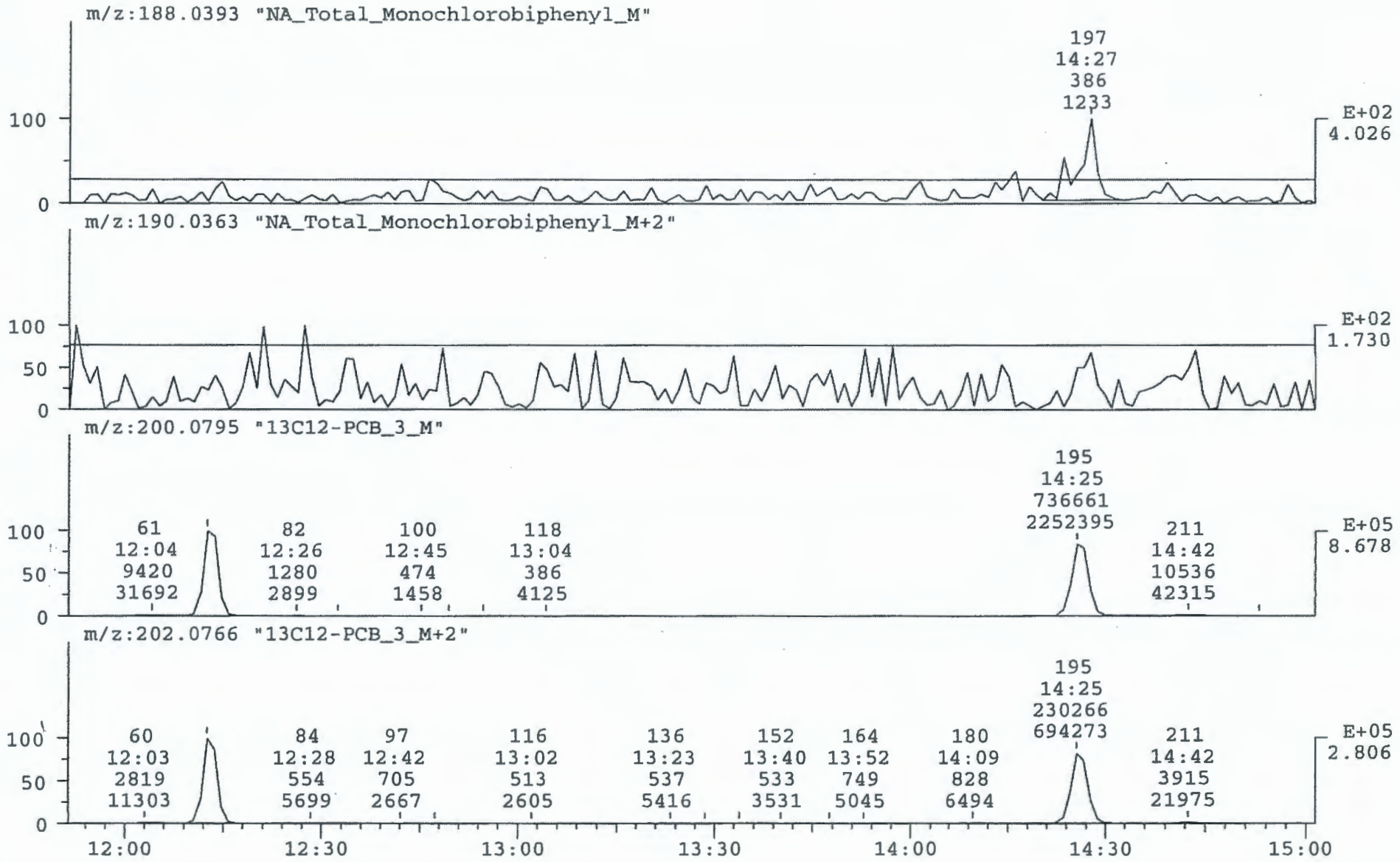
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: a07030742 08-Mar-07 Elapse: 56:13 2557
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2 > 2602 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

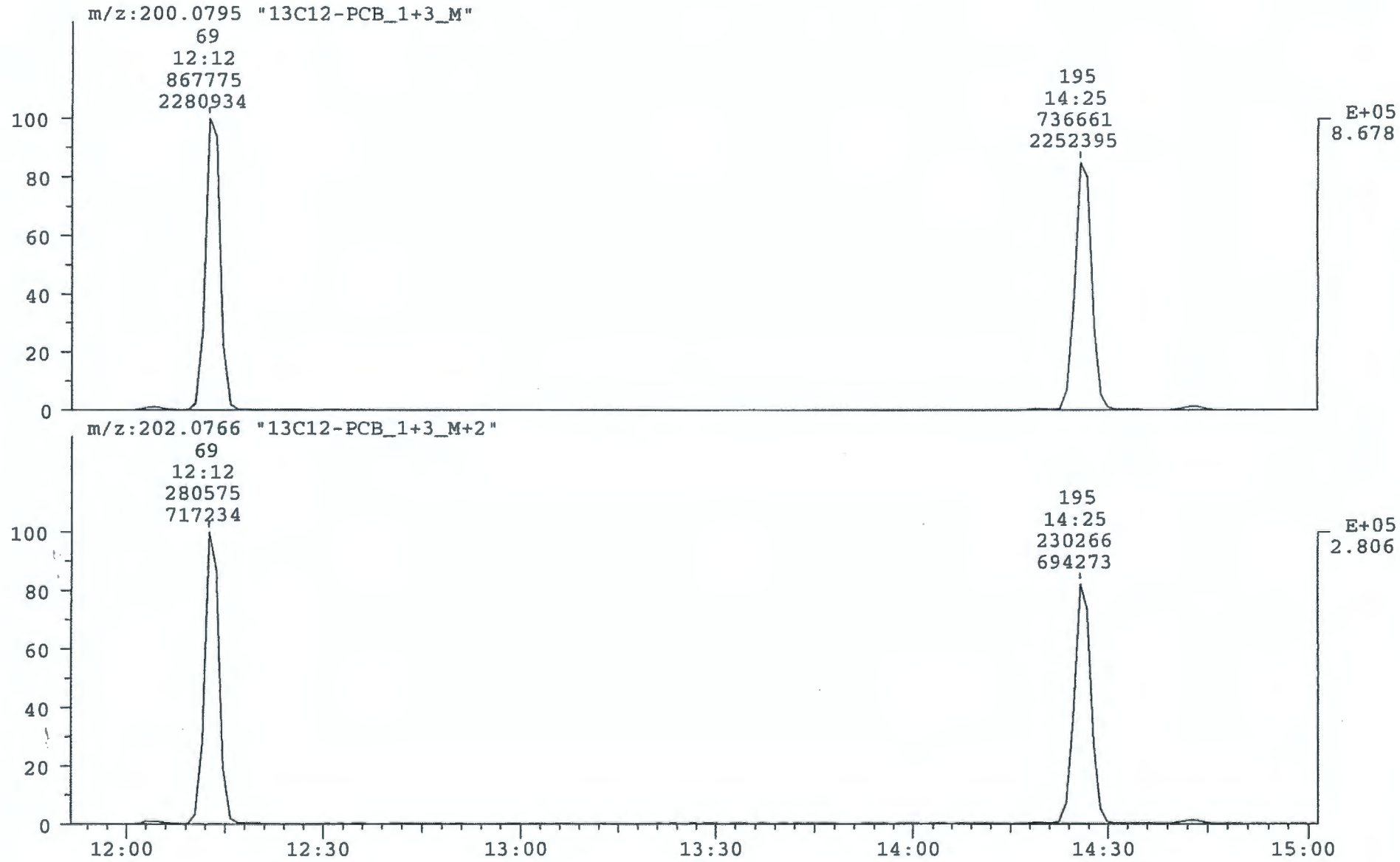
Int DCS 3-1707
calc DCS 3-1907
QC BKW 3/19/07



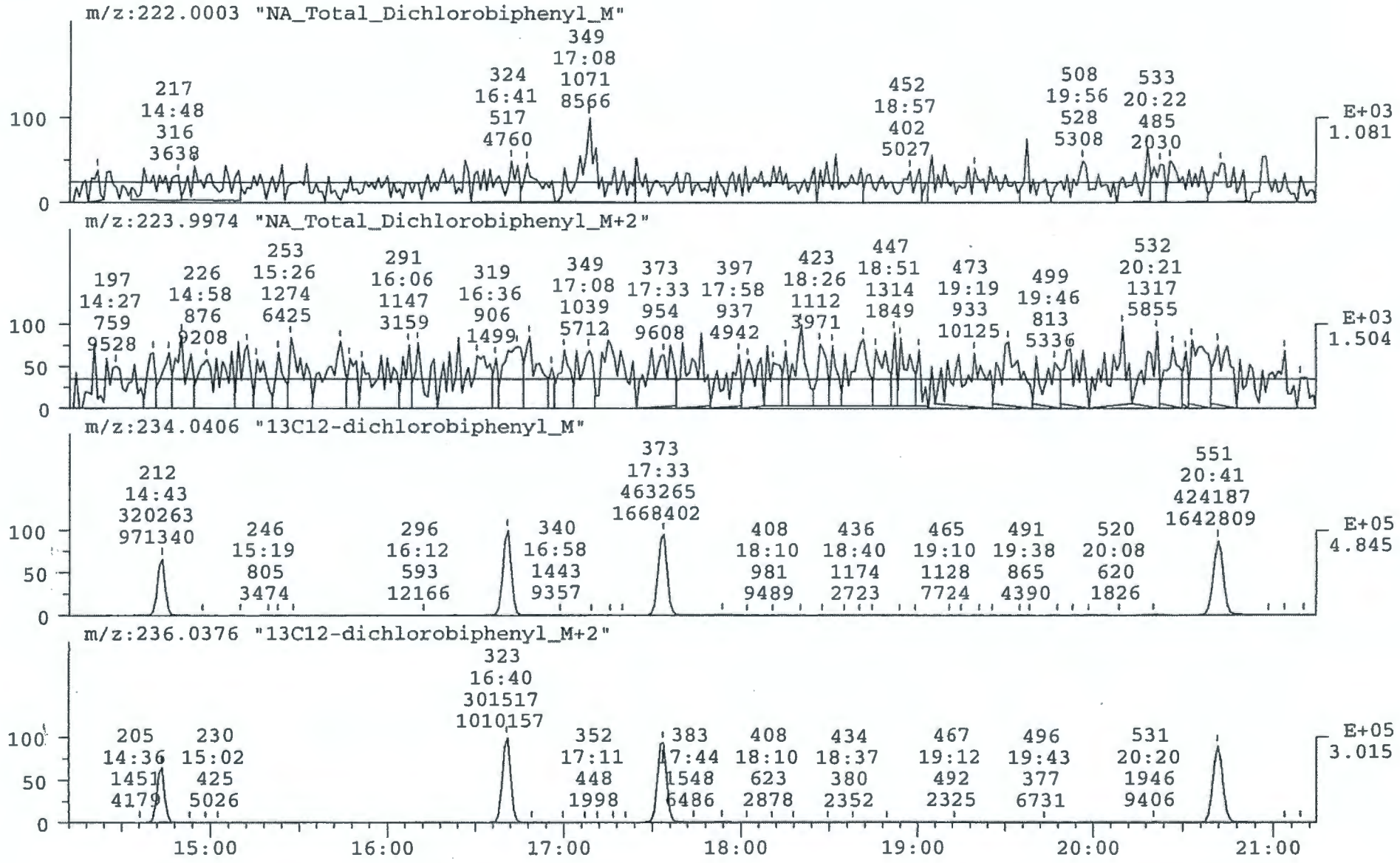
```
CHRO:  a07030742                                08-Mar-07   Elapse:  13:26.4      139
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   49 > 229              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



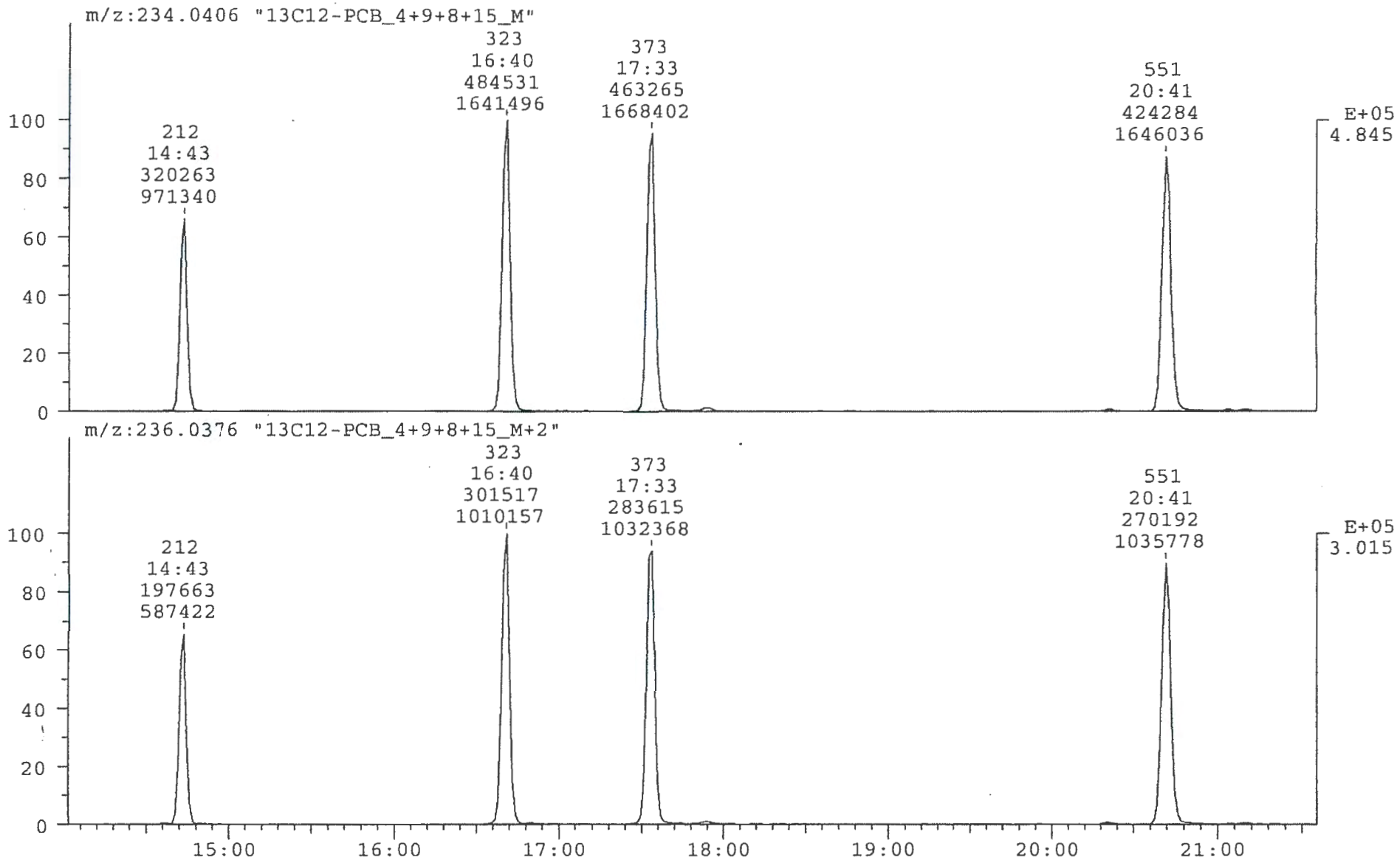
```
CHRO:  a07030742                                08-Mar-07  Elapse:  13:26.4      139
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   49 > 229            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030742 08-Mar-07 Elapse: 17:43.0 382
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 182 > 582 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

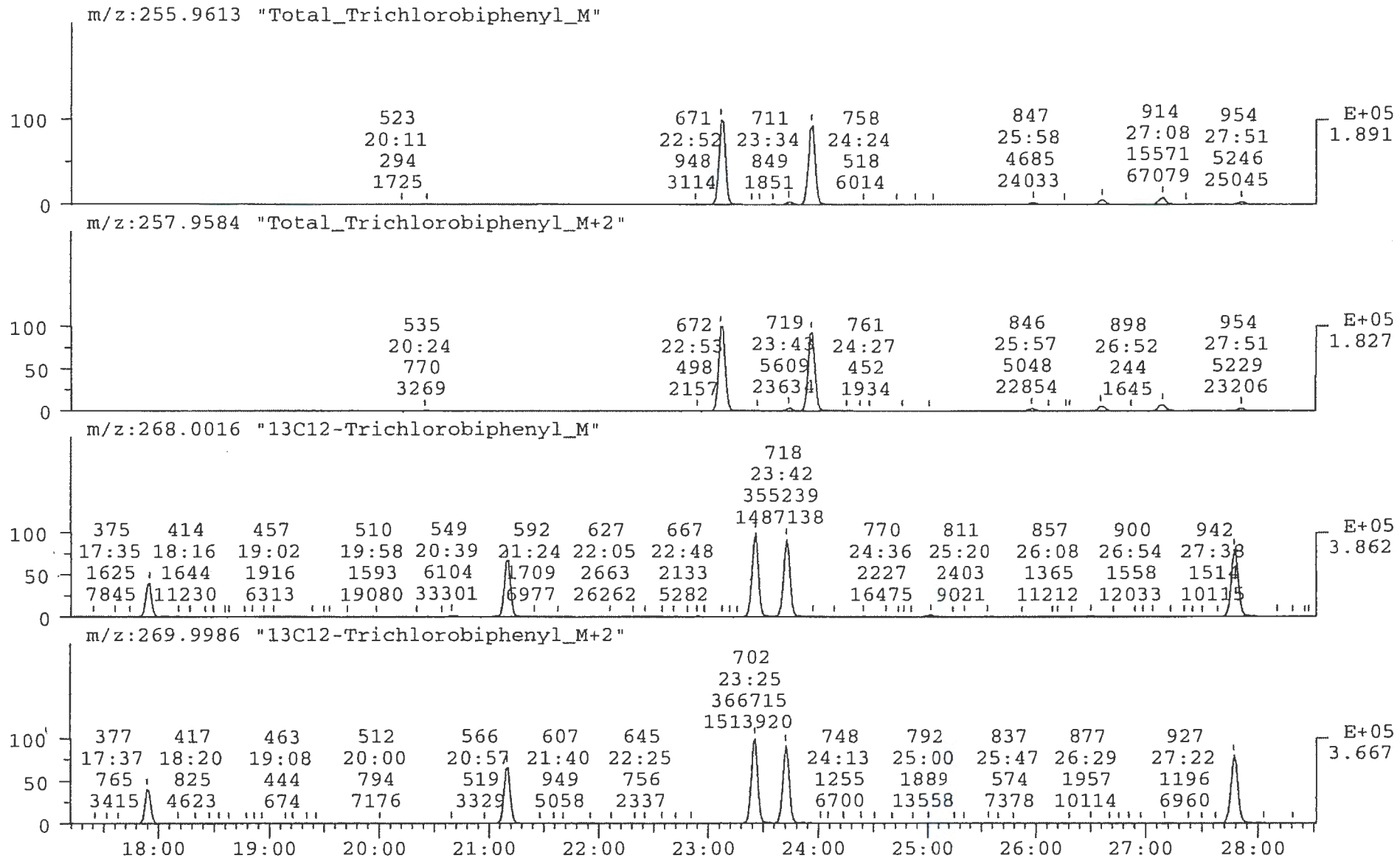


```
CHRO:  a07030742                                08-Mar-07   Elapse:  17:43.0      382
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

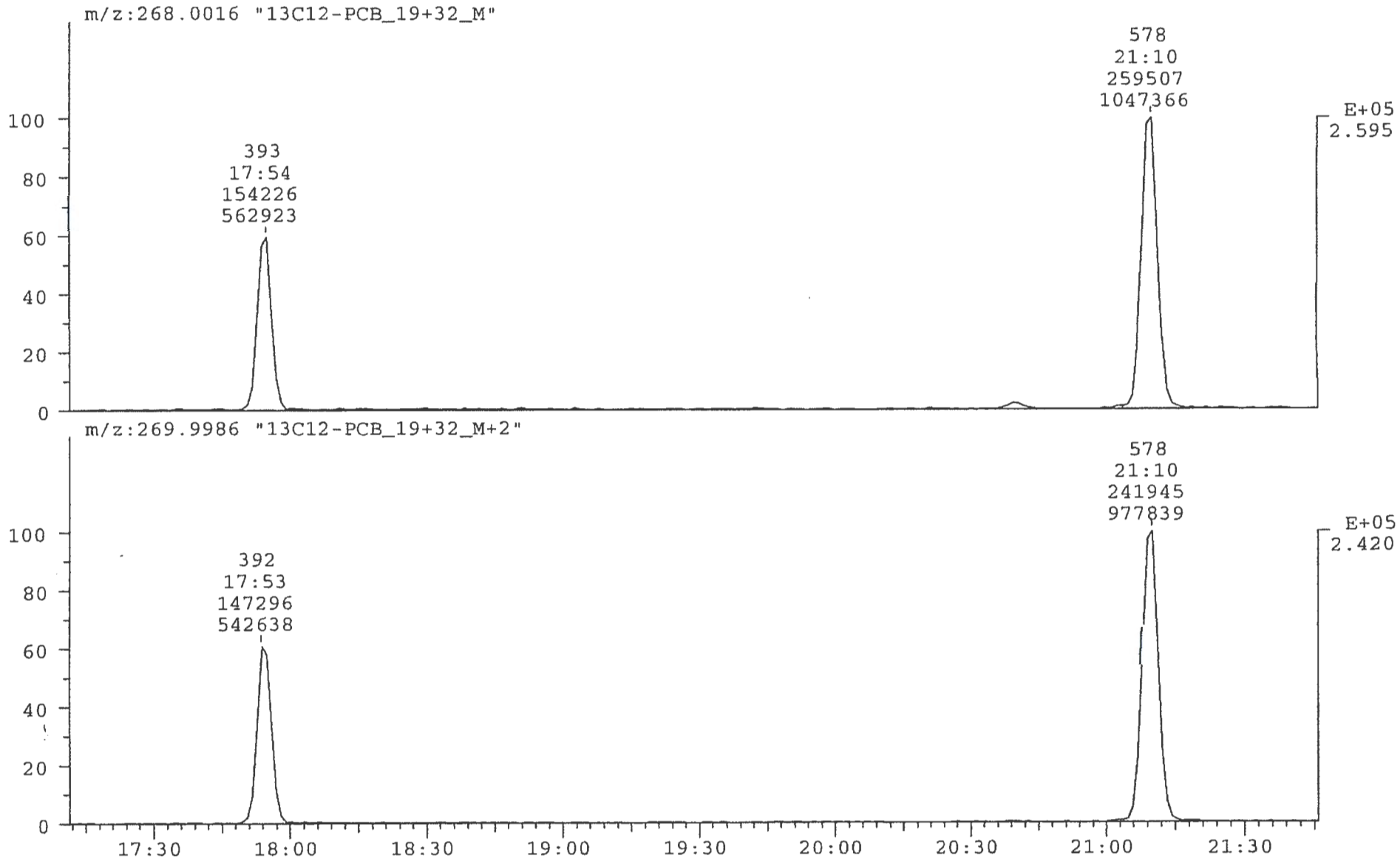


2398

```
CHRO:  a07030742                                08-Mar-07   Elapse:  22:53.5      672
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   352 > 992             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

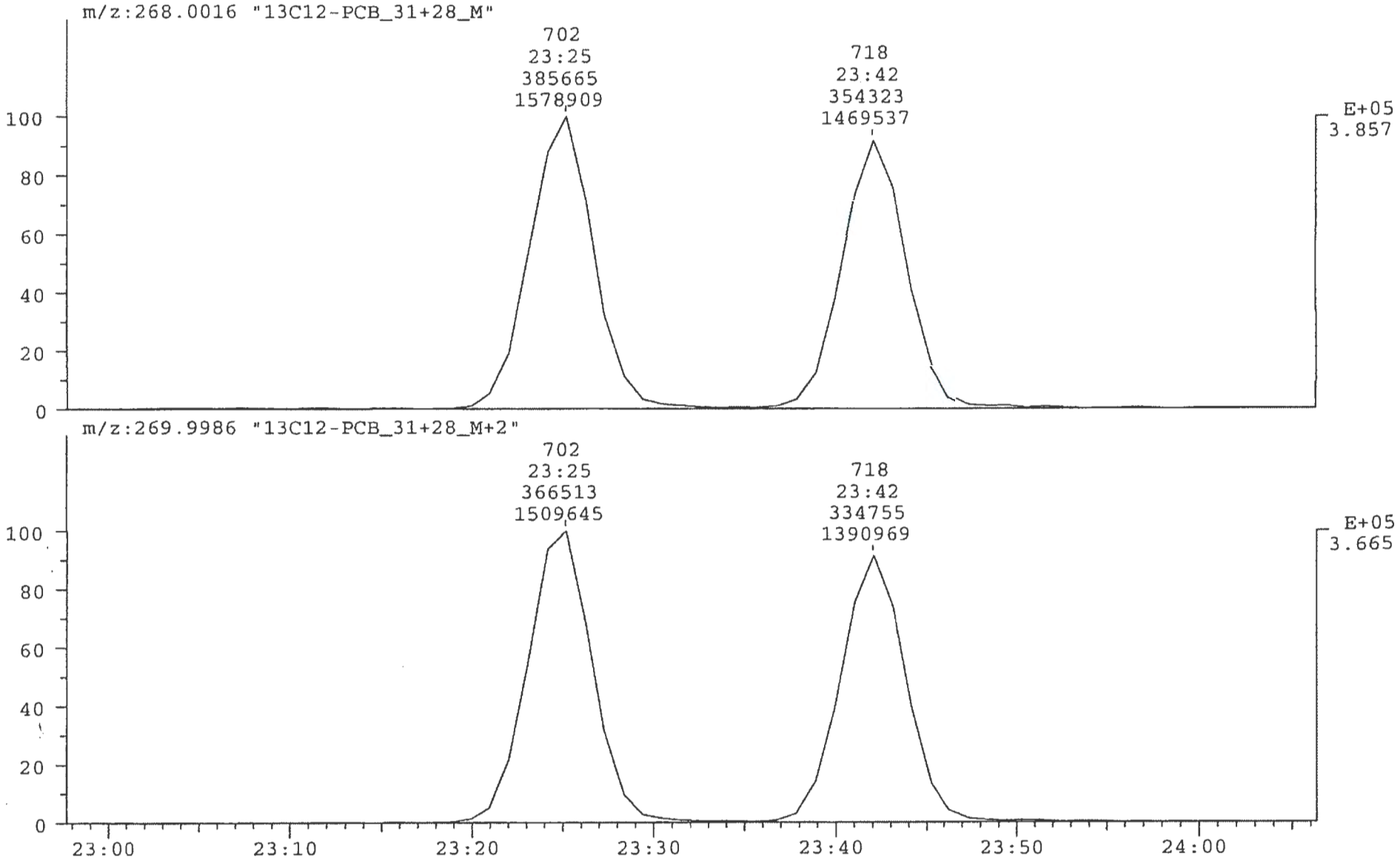


```
CHRO:  a07030742                                08-Mar-07   Elapse:  19:18.1      472
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   352 > 612             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```

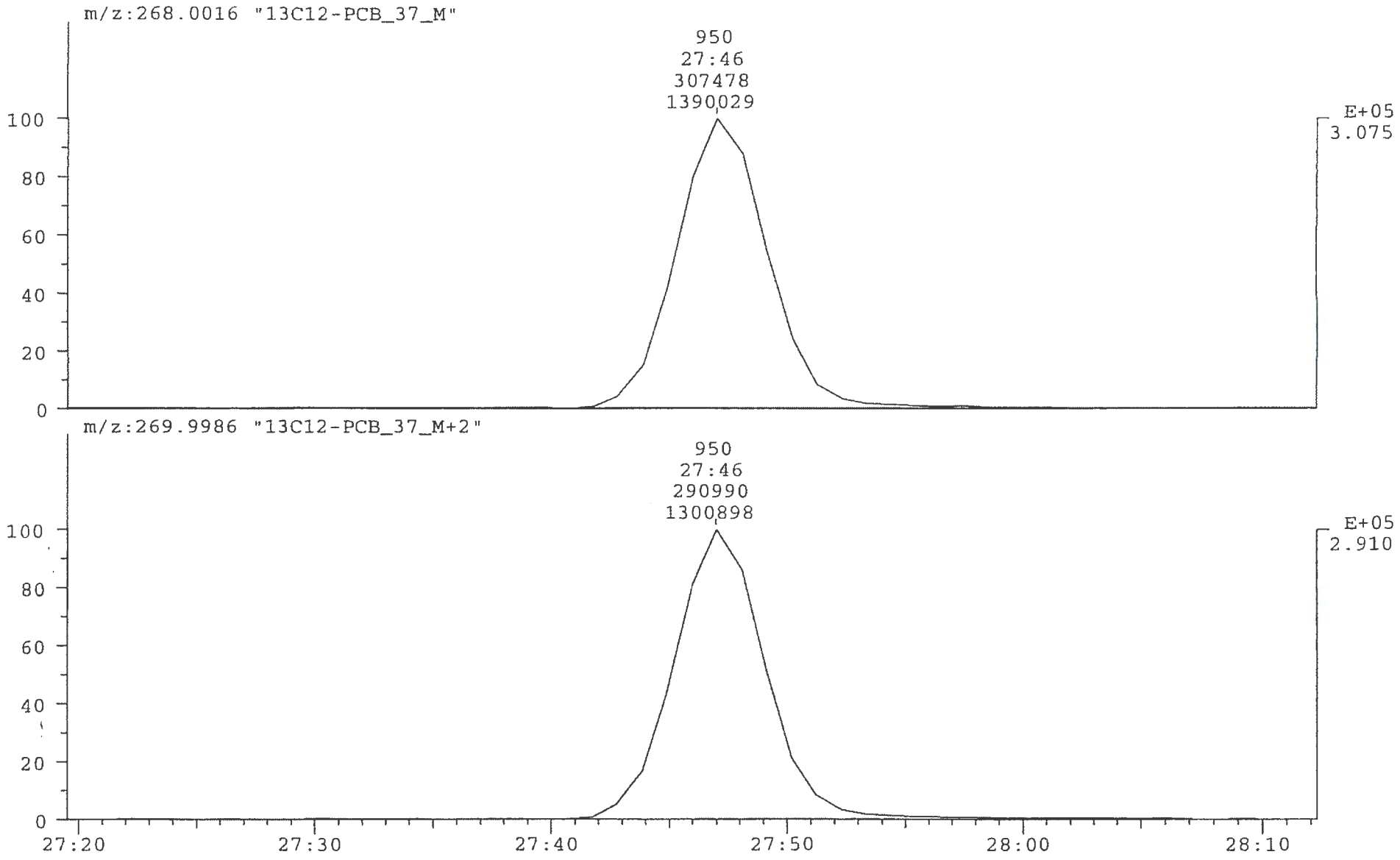


2400

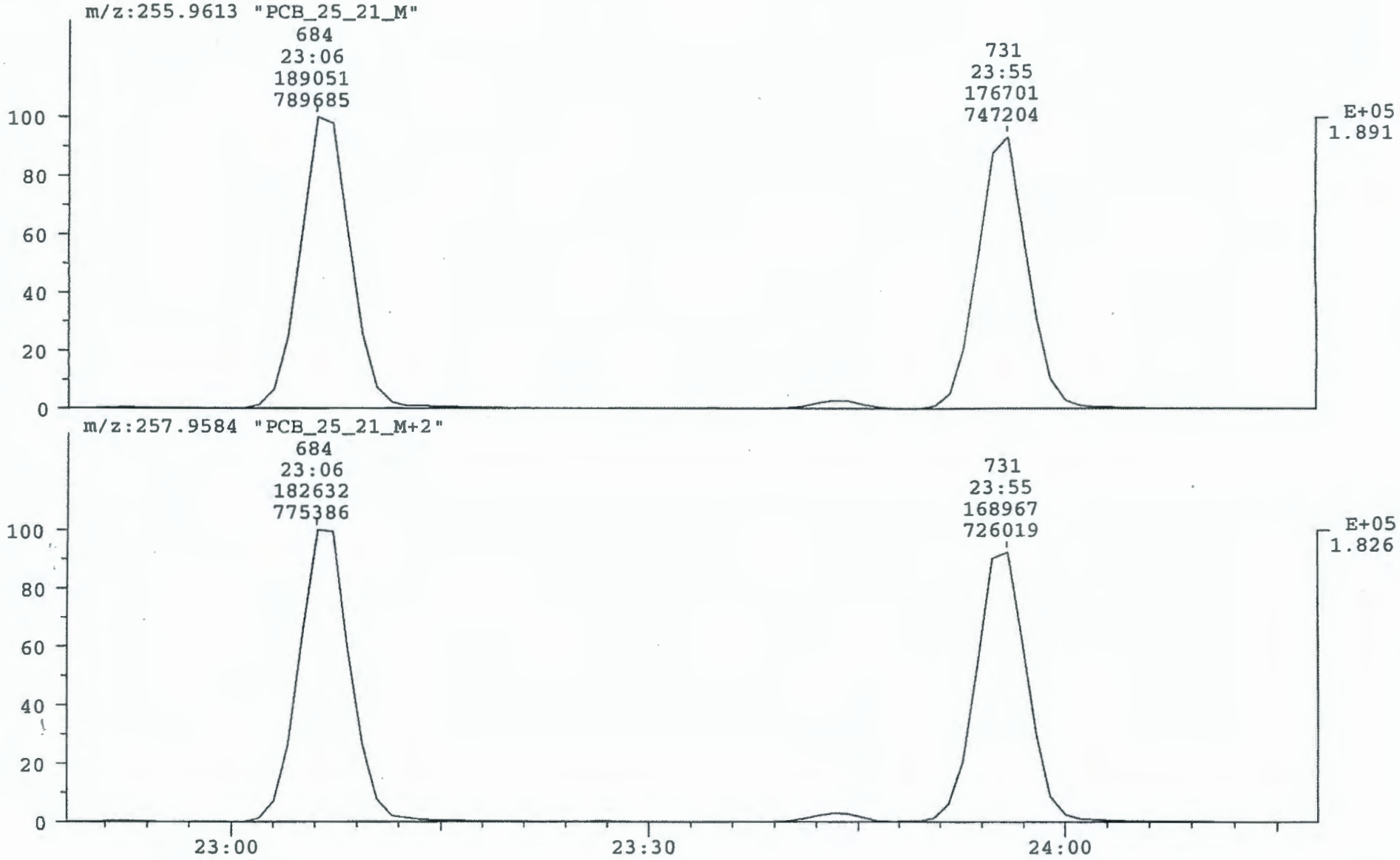
```
CHRO:  a07030742                                08-Mar-07   Elapse:  23:24.1      701
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   676 > 741             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



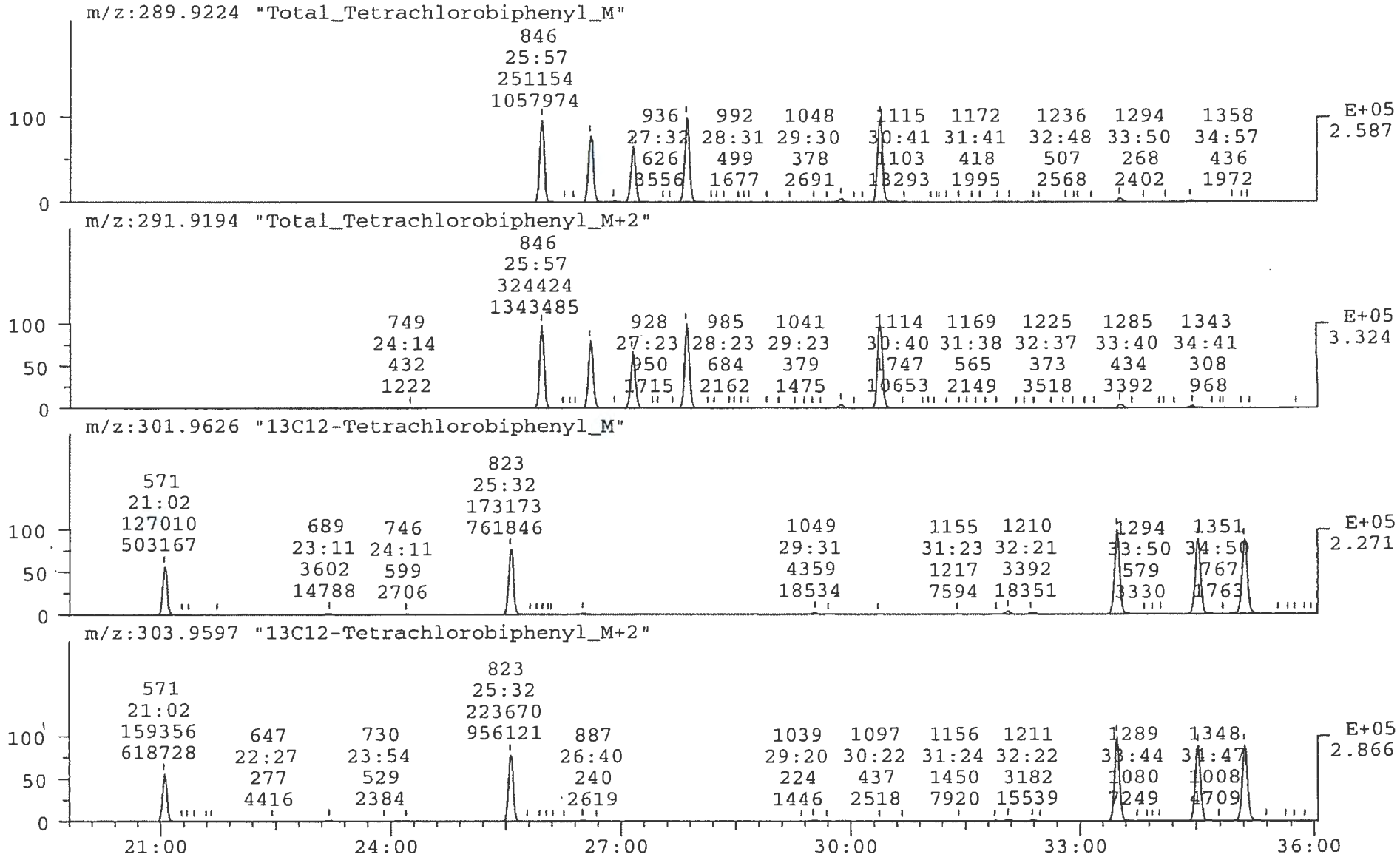
```
CHRO:  a07030742                                08-Mar-07   Elapse:  27:45.9      949
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   924 > 974             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



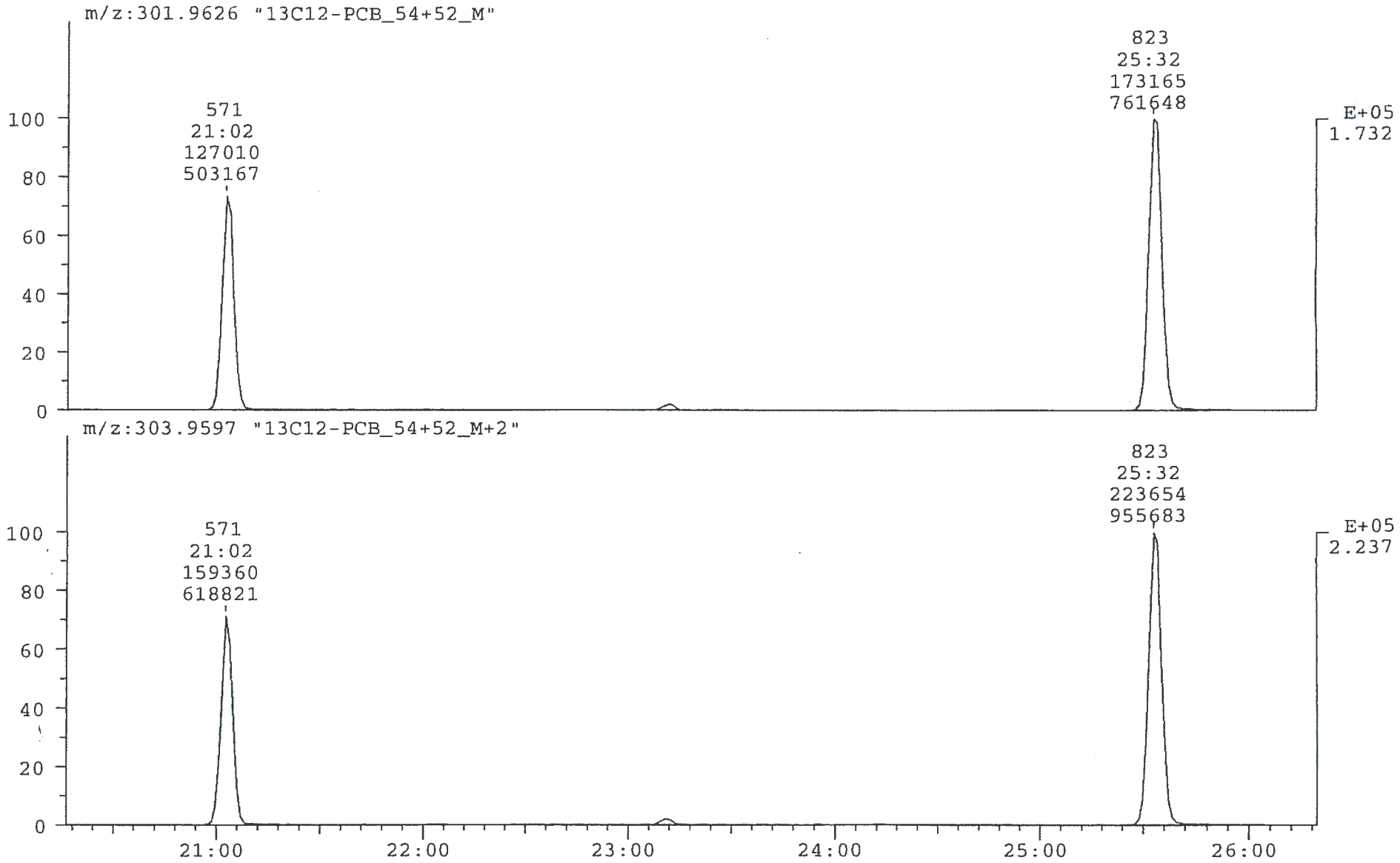
```
CHRO:  a07030742                                08-Mar-07   Elapse:  23:41.9      717
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   667 > 752             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



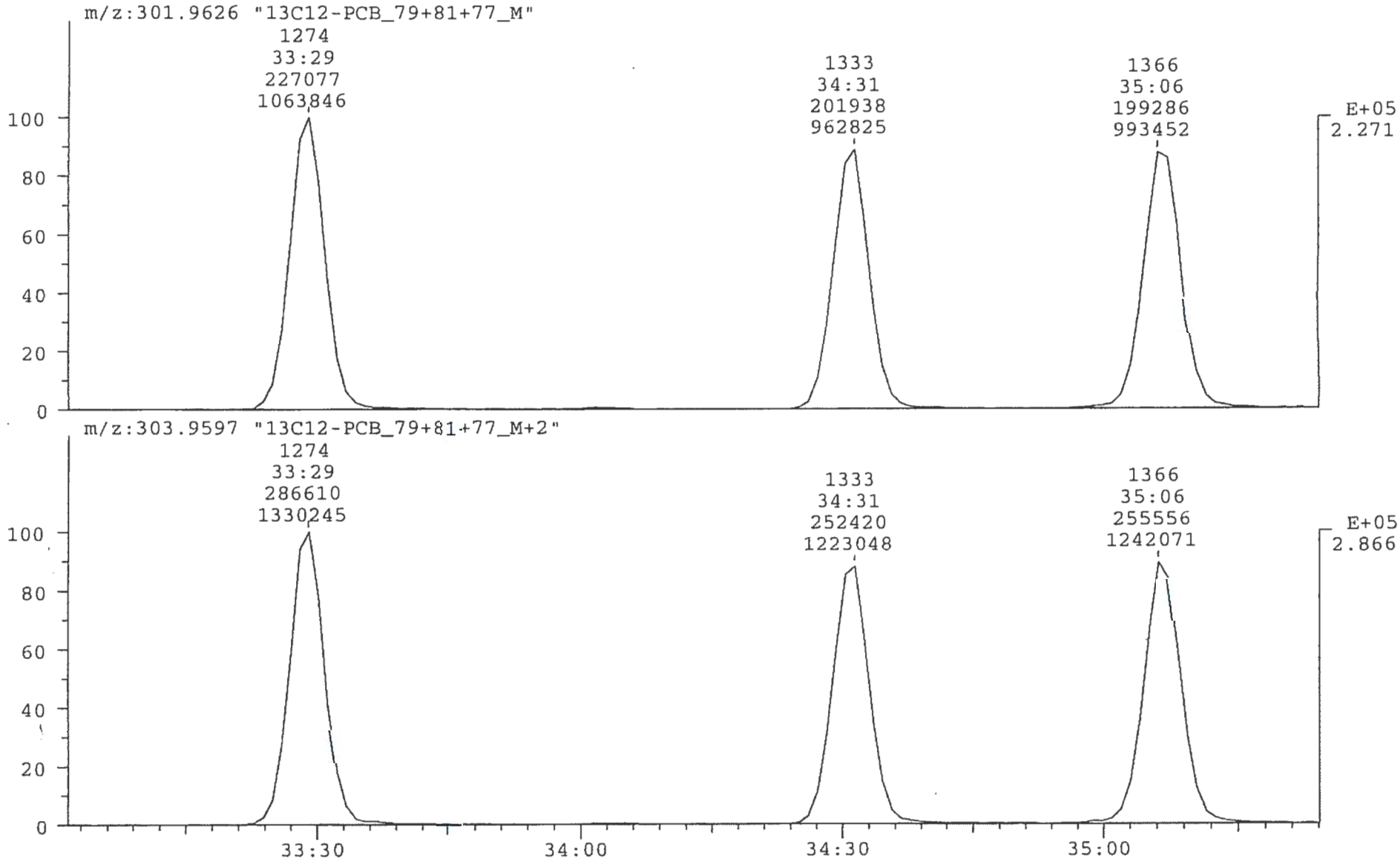
CHRO: a07030742 08-Mar-07 Elapse: 27:55.4 958
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 500 > 1420 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030742                                08-Mar-07   Elapse:  23:19.9      697
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

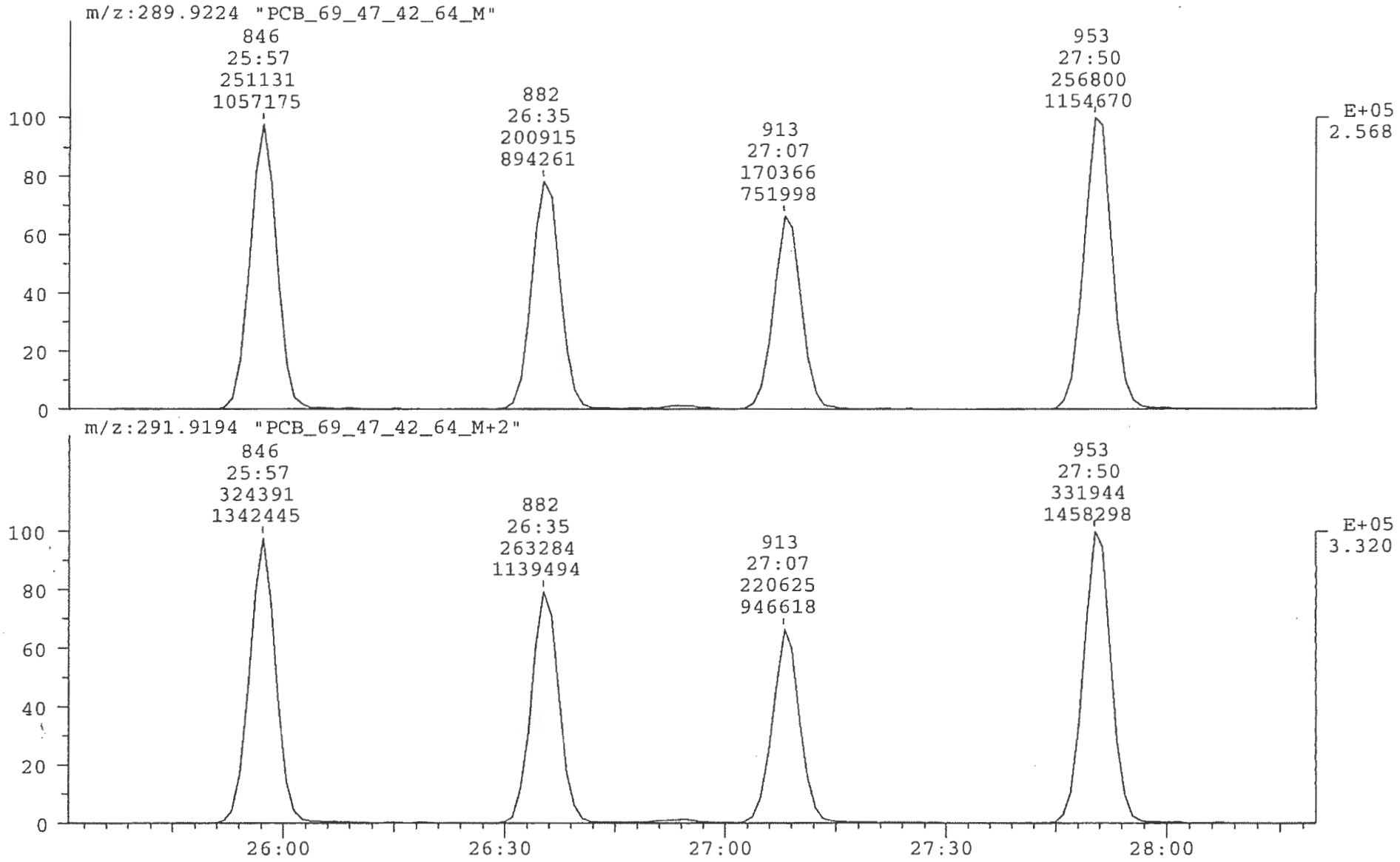


CHRO: a07030742 08-Mar-07 Elapse: 34:15 1318
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1248 > 1383 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



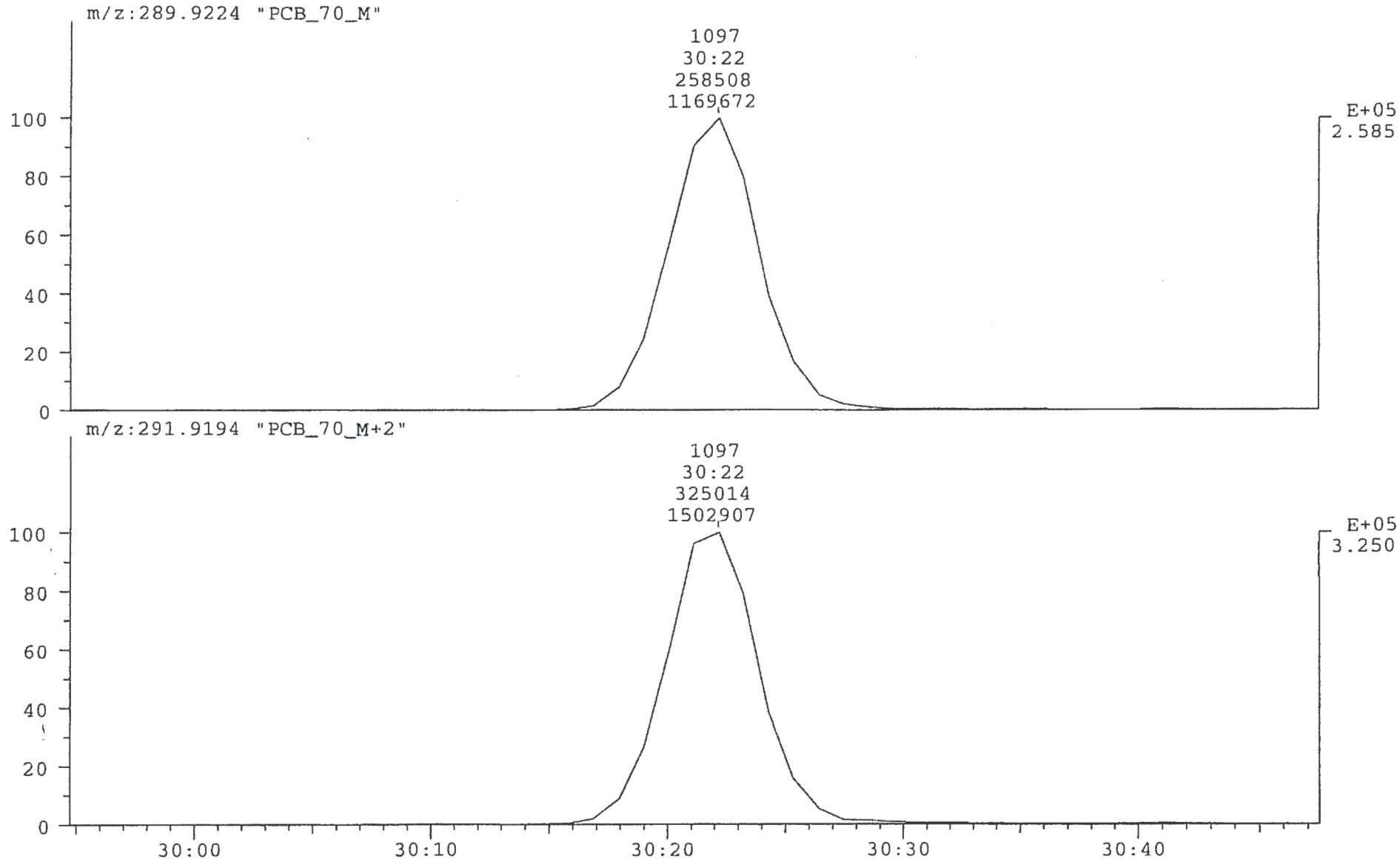
2406

```
CHRO:  a07030742                                08-Mar-07   Elapse:  26:55.2      901
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   821 > 981             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



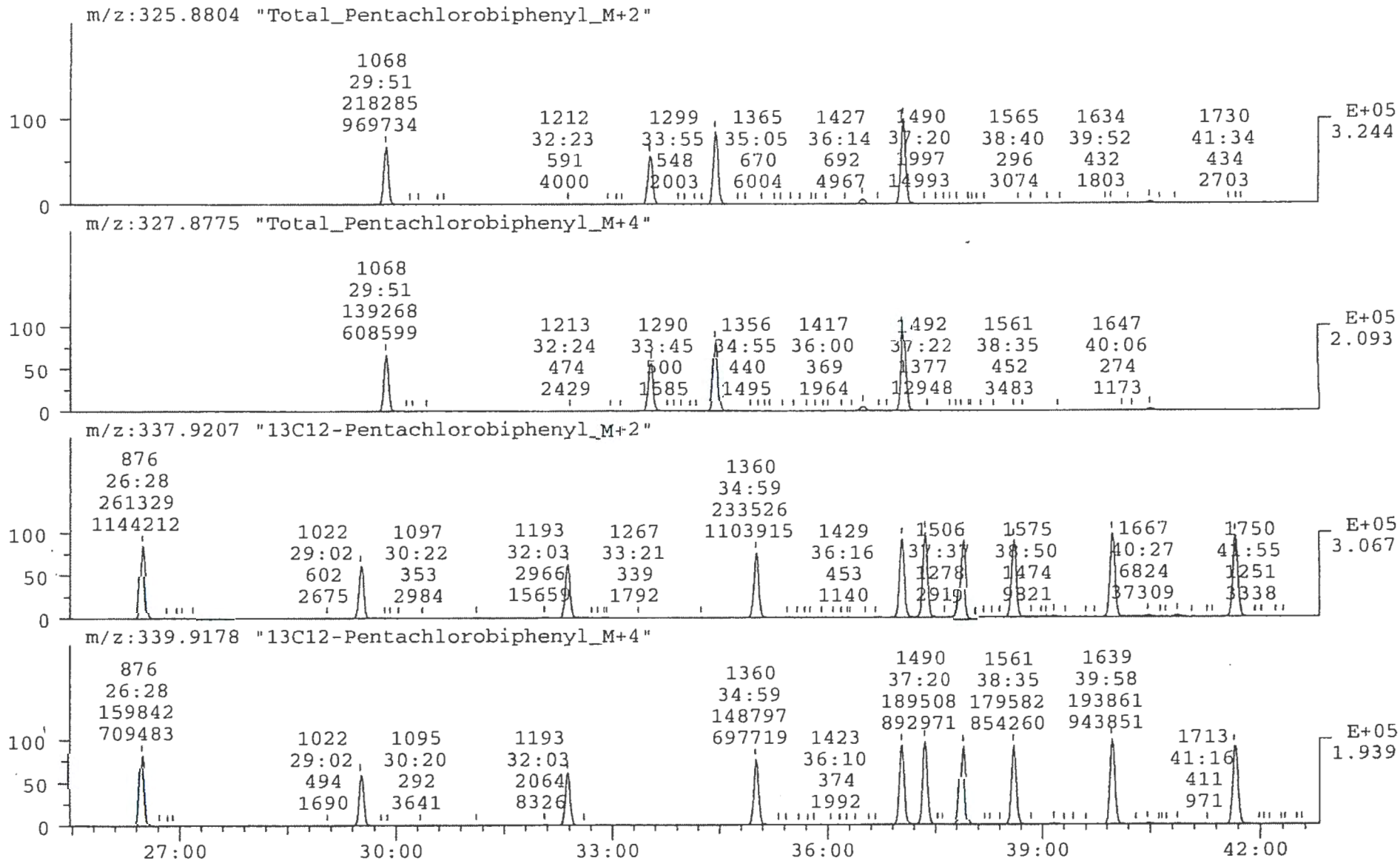
2407

```
CHRO:  a07030742                              08-Mar-07   Elapse:  30:21      1096
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1071 > 1121         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

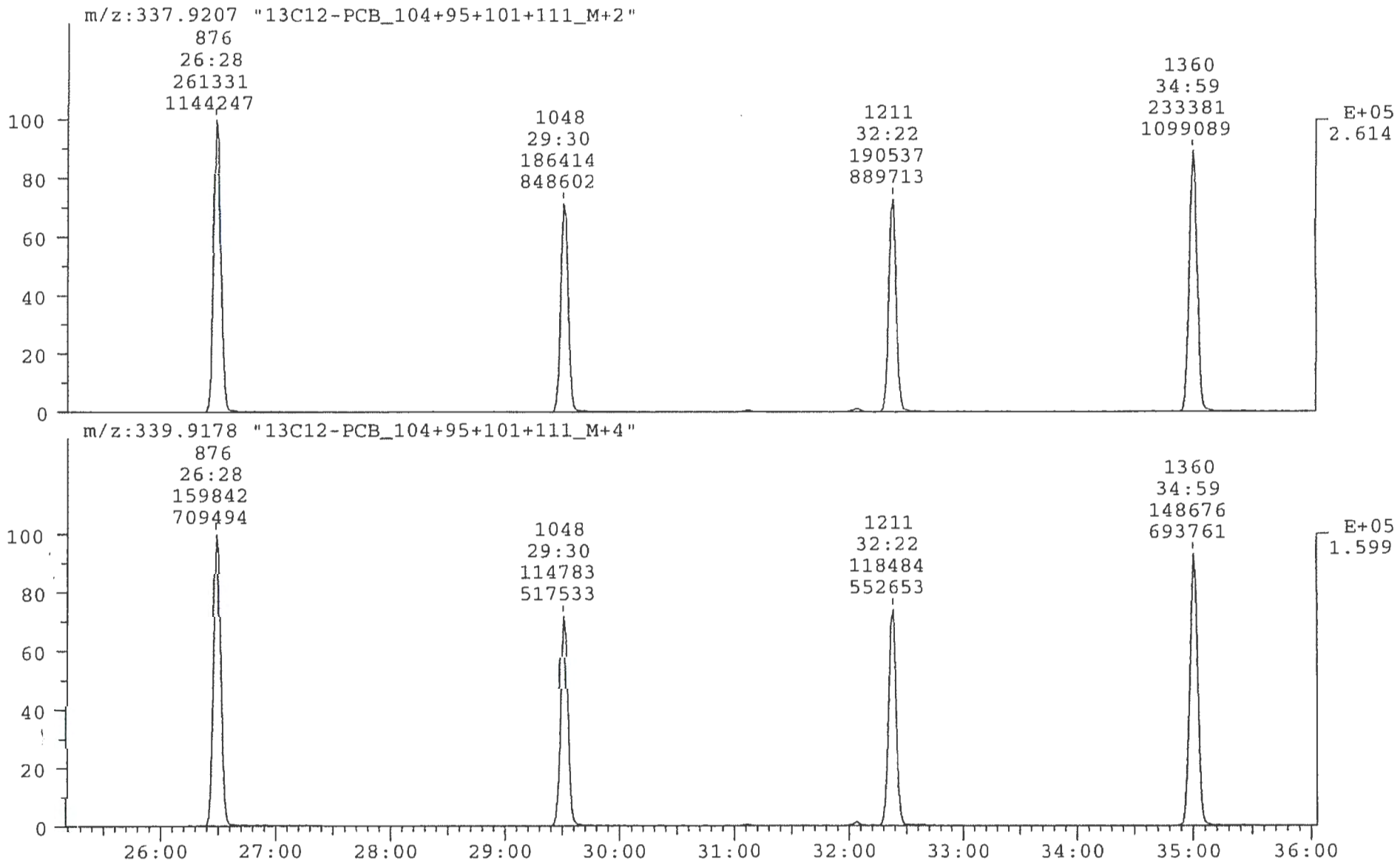


2408

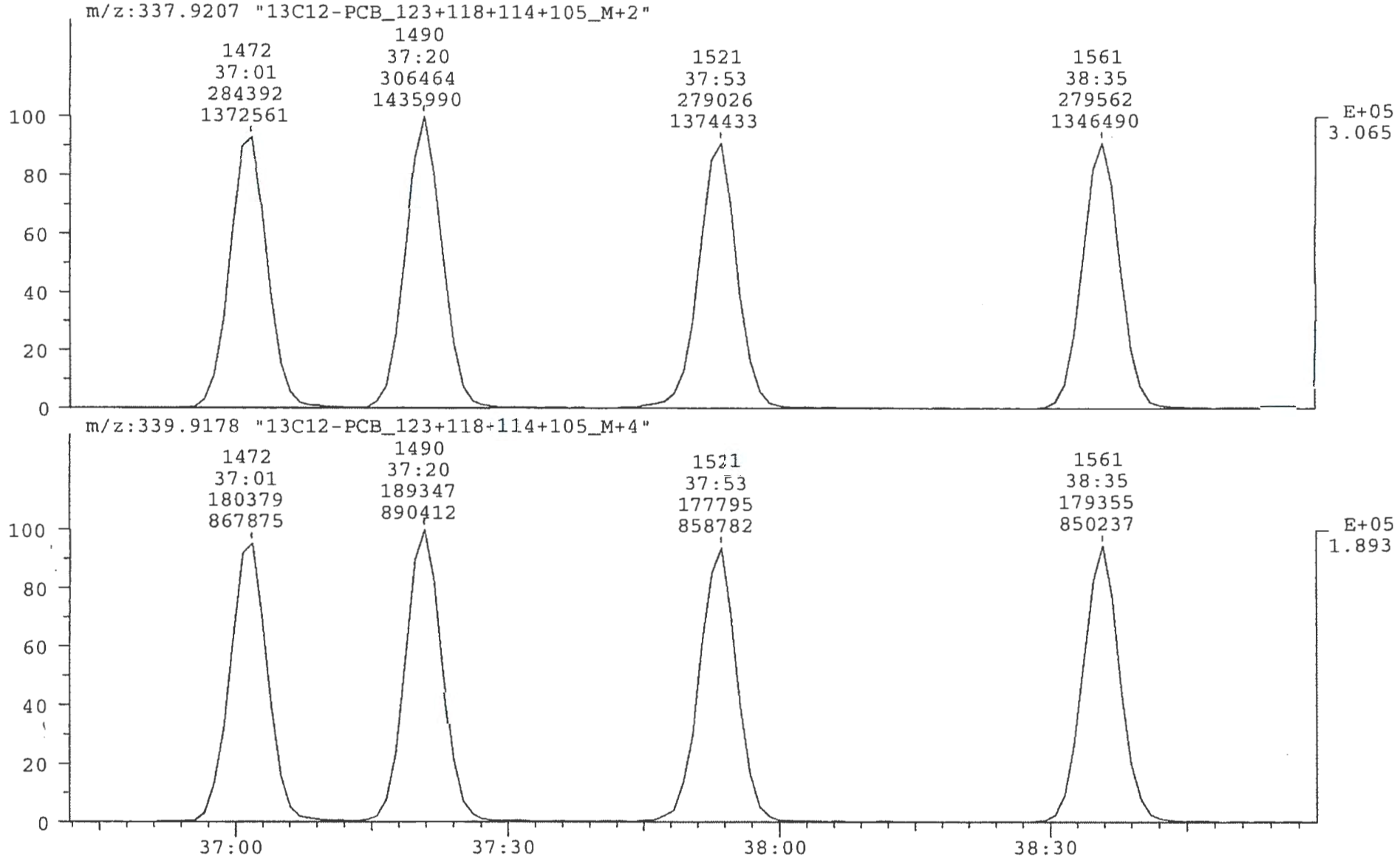
```
CHRO:  a07030742                                08-Mar-07  Elapse:  34:08      1311
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   818 > 1800          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



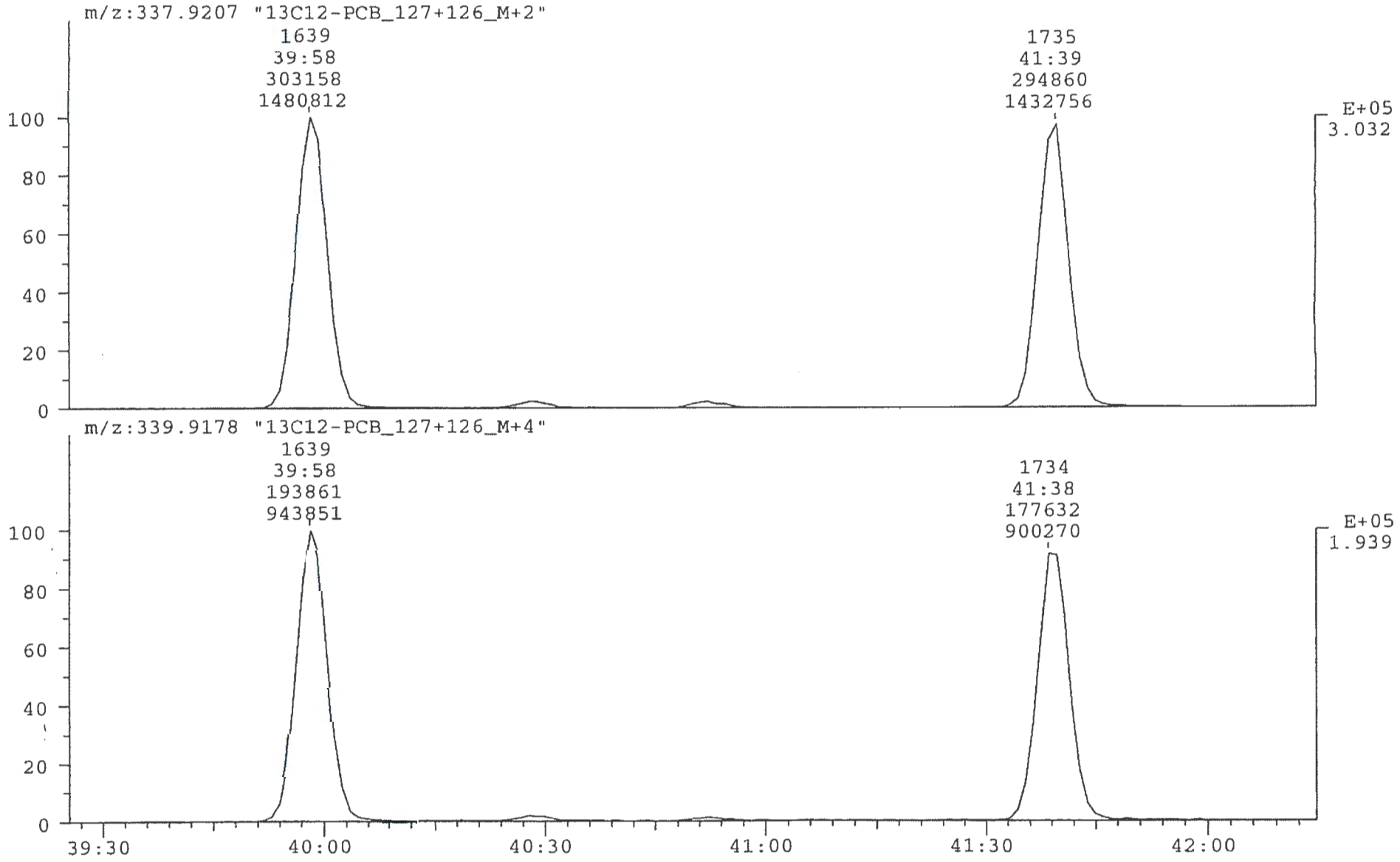
```
CHRO:  a07030742                                08-Mar-07   Elapse:  30:37      1111
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   802 > 1420            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



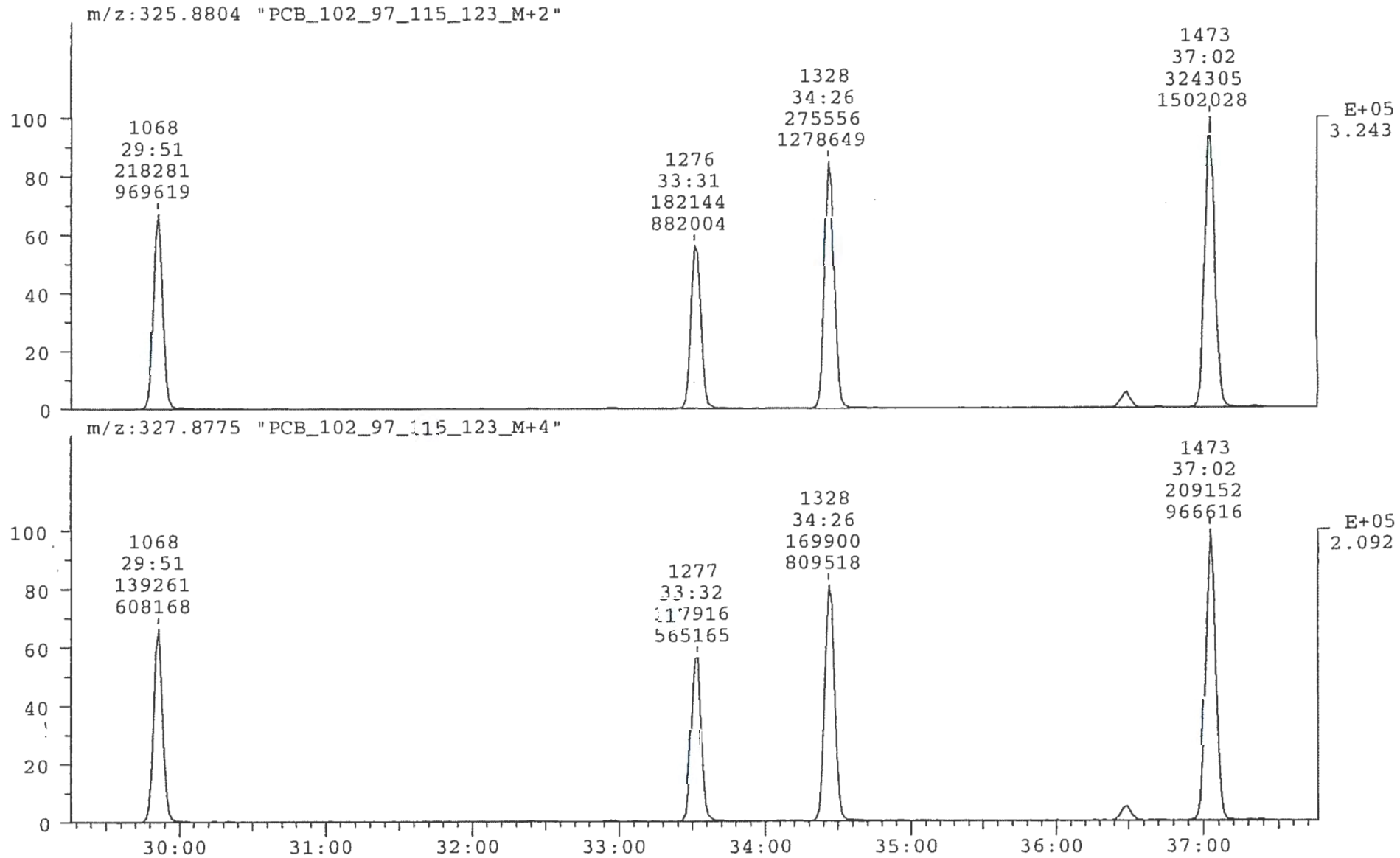
```
CHRO:  a07030742                                08-Mar-07   Elapse:  37:50      1518
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1453 > 1583           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



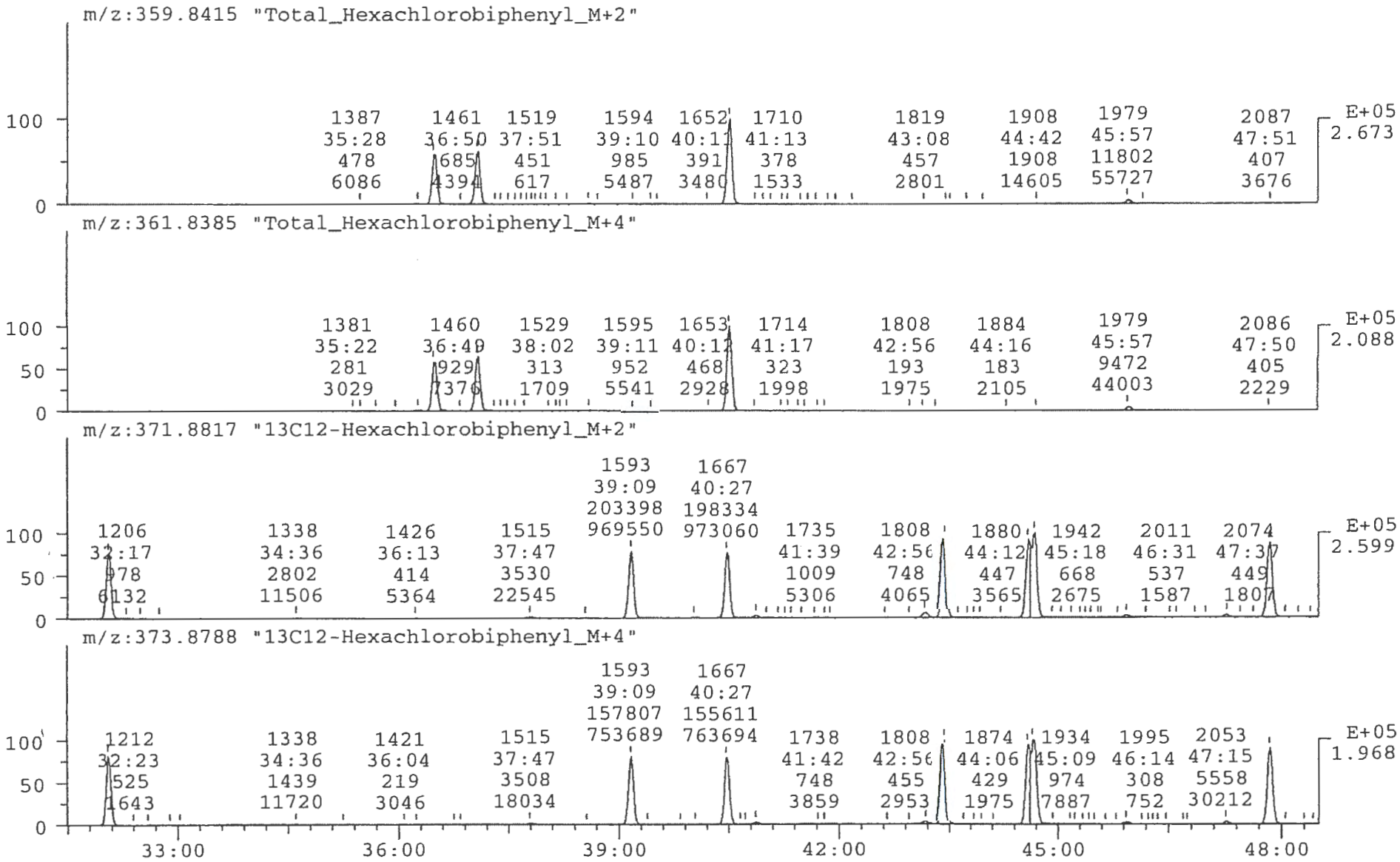
```
CHRO:  a07030742                                08-Mar-07   Elapse:  40:49      1688
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1608 > 1768           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



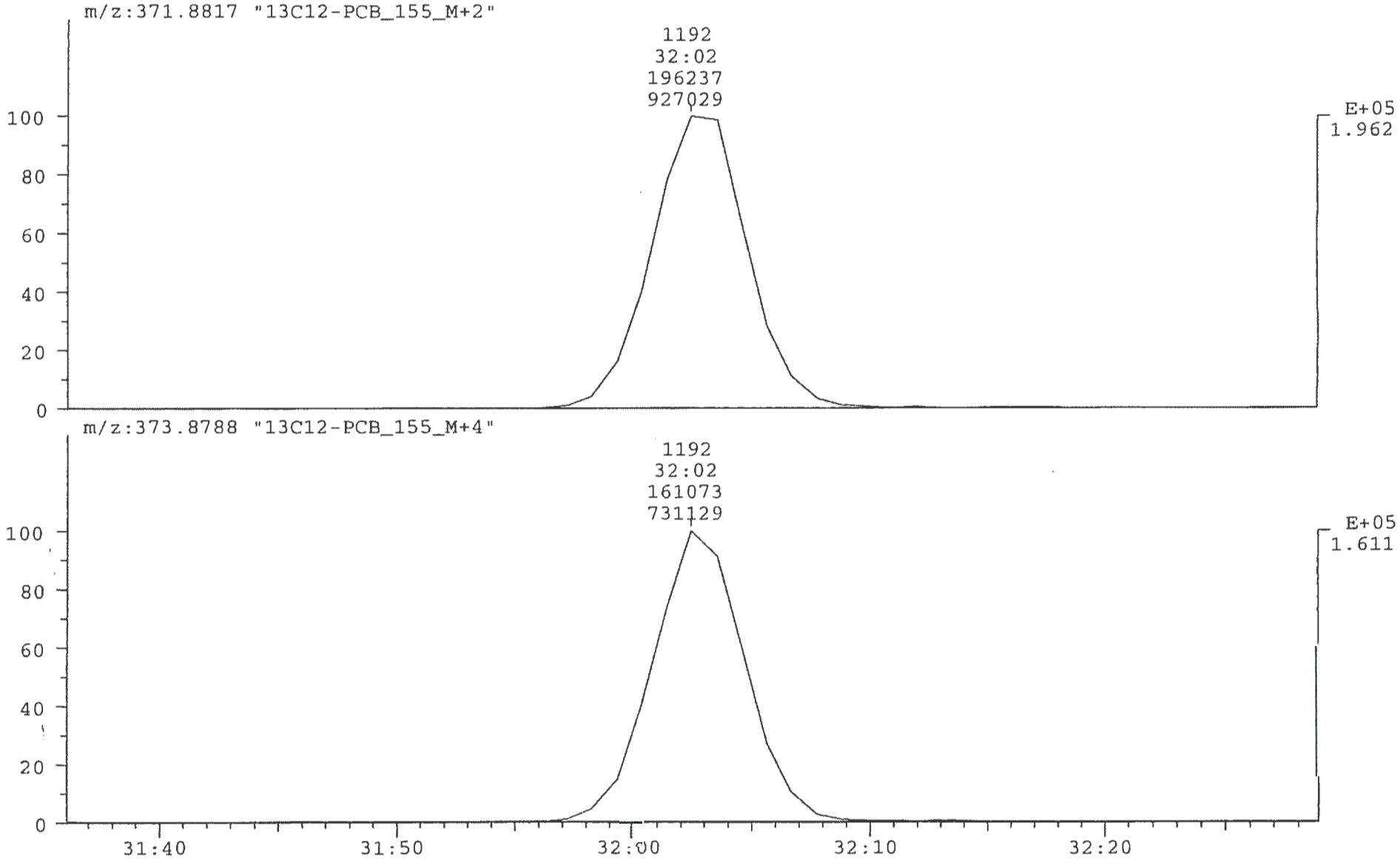
```
CHRO:  a07030742                                08-Mar-07  Elapse:  33:29      1274
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1034 > 1514         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



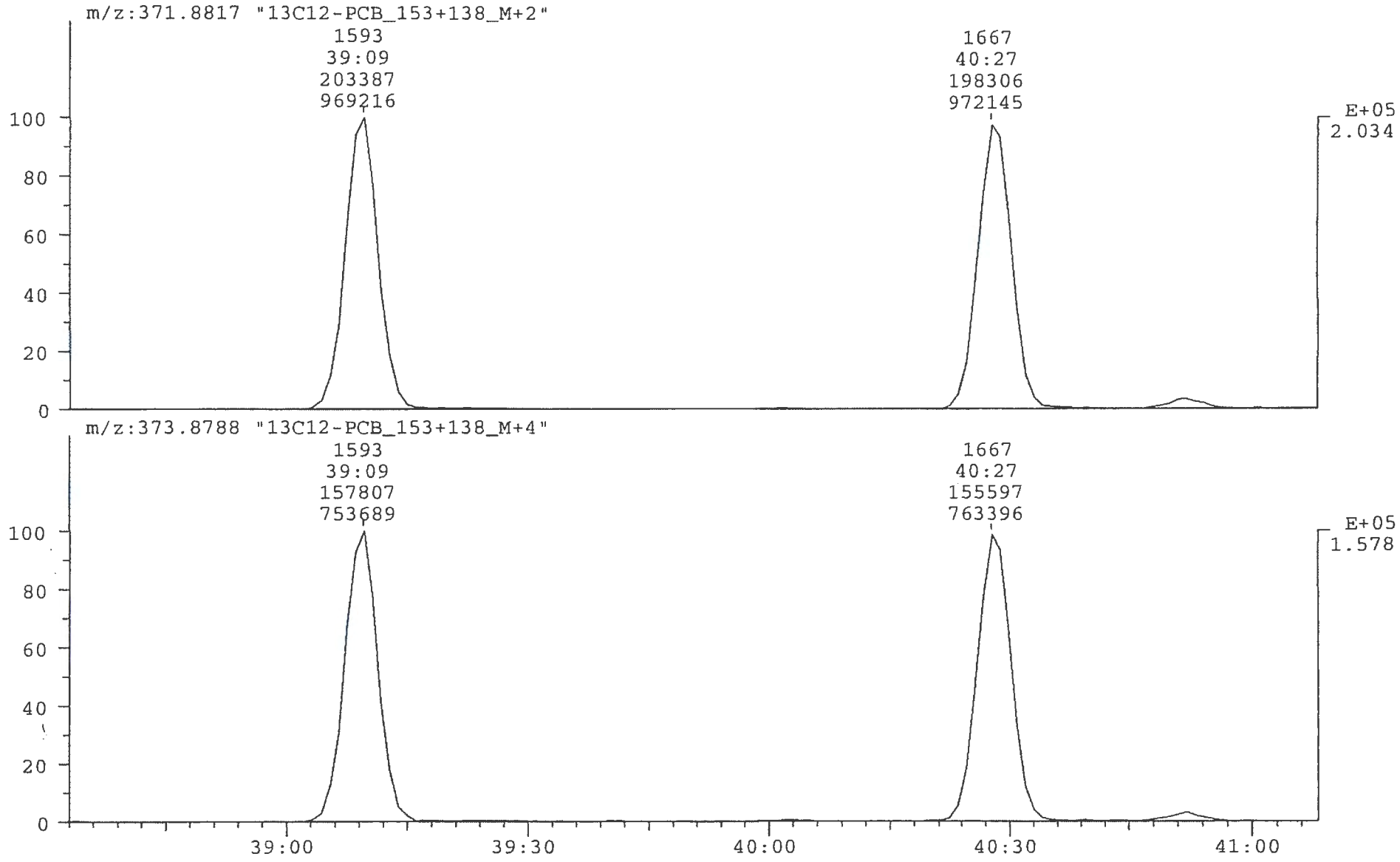
```
CHRO:  a07030742                                08-Mar-07   Elapse:  39:59       1640
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1160 > 2123           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



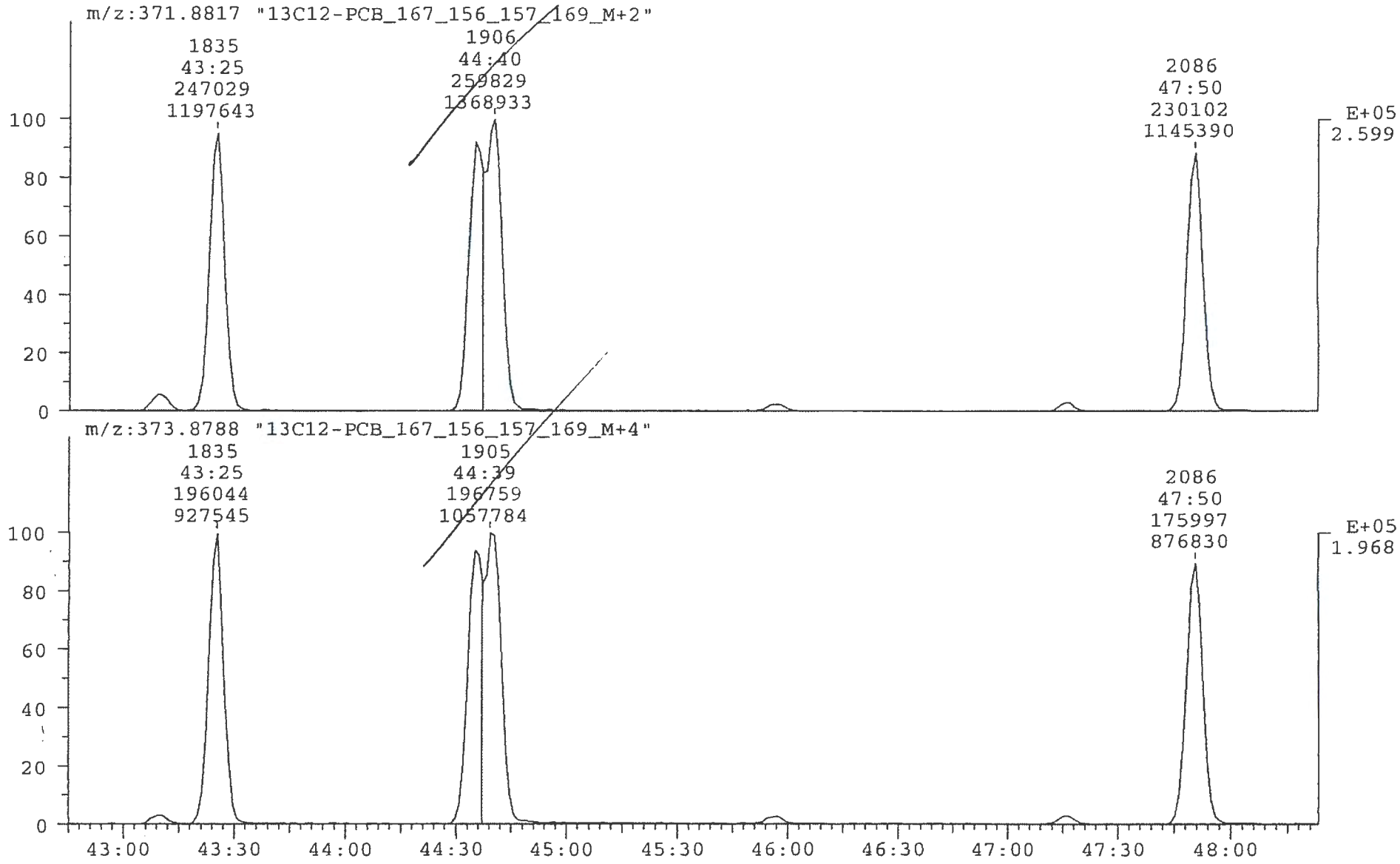
```
CHRO:  a07030742                                08-Mar-07   Elapse:  32:02      1192
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1167 > 1217           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



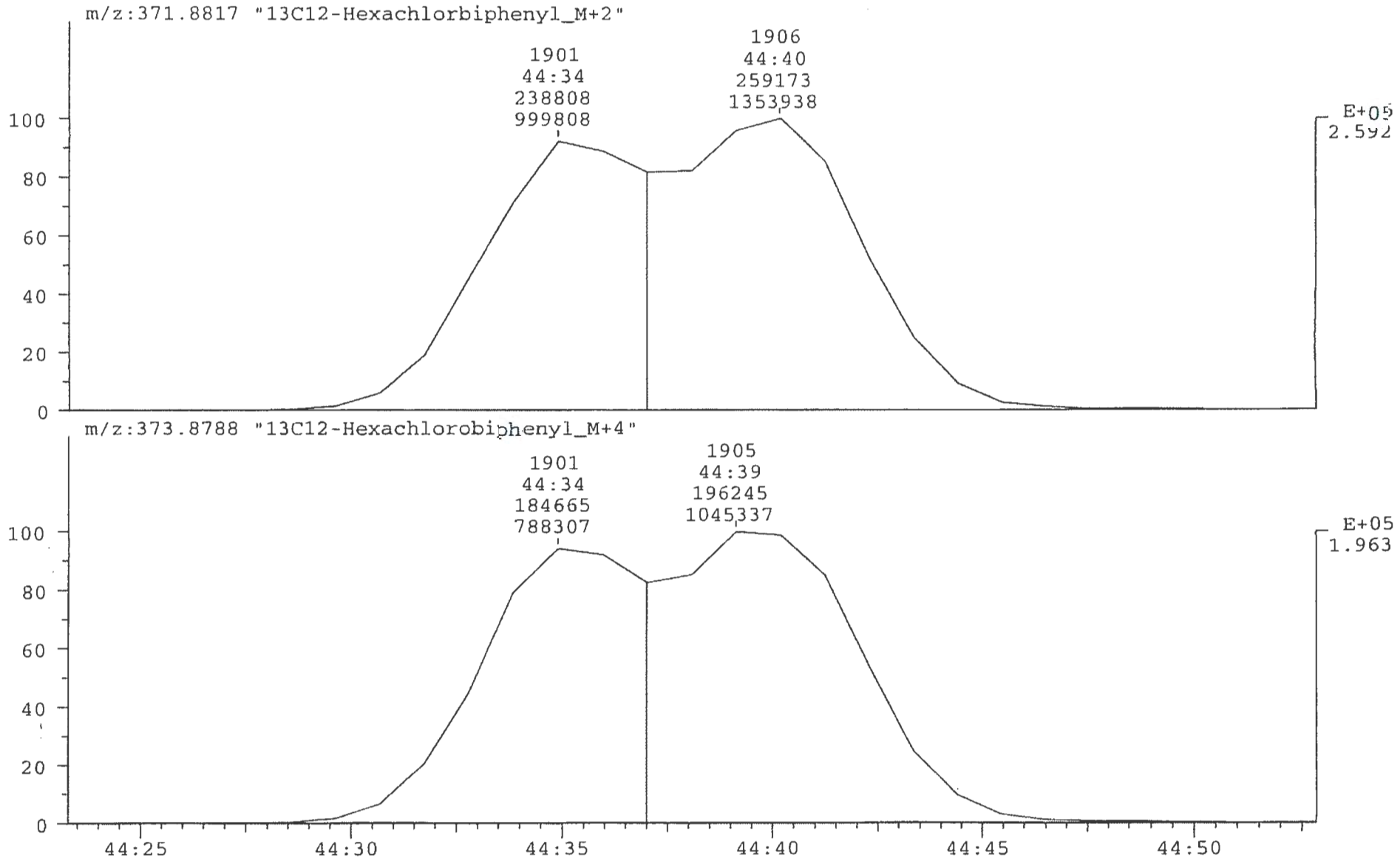
```
CHRO:  a07030742                                08-Mar-07   Elapse:  39:49      1631
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1558 > 1705           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



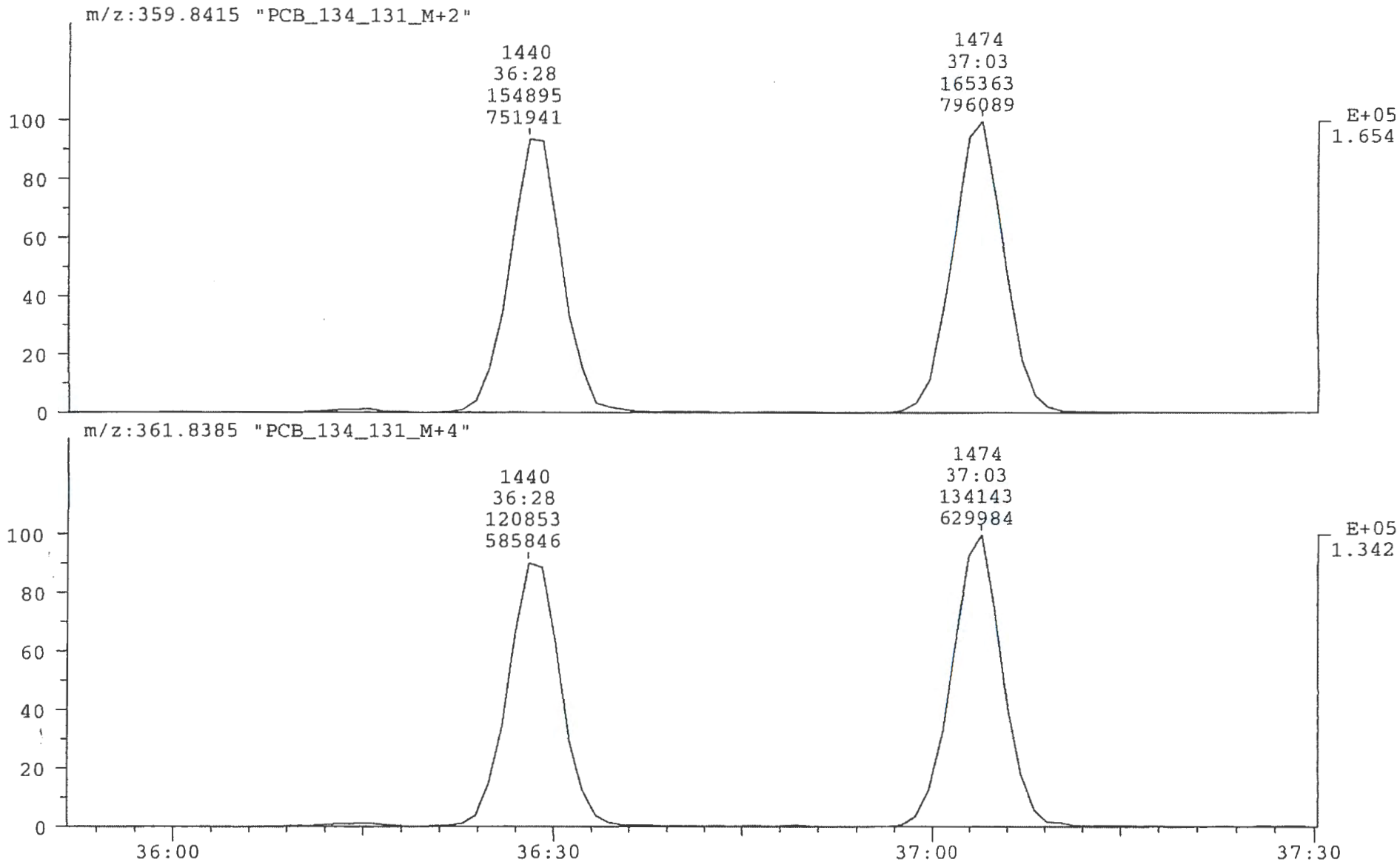
```
CHRO:  a07030742                                08-Mar-07   Elapse:  45:39      1962
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1797 > 2117           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



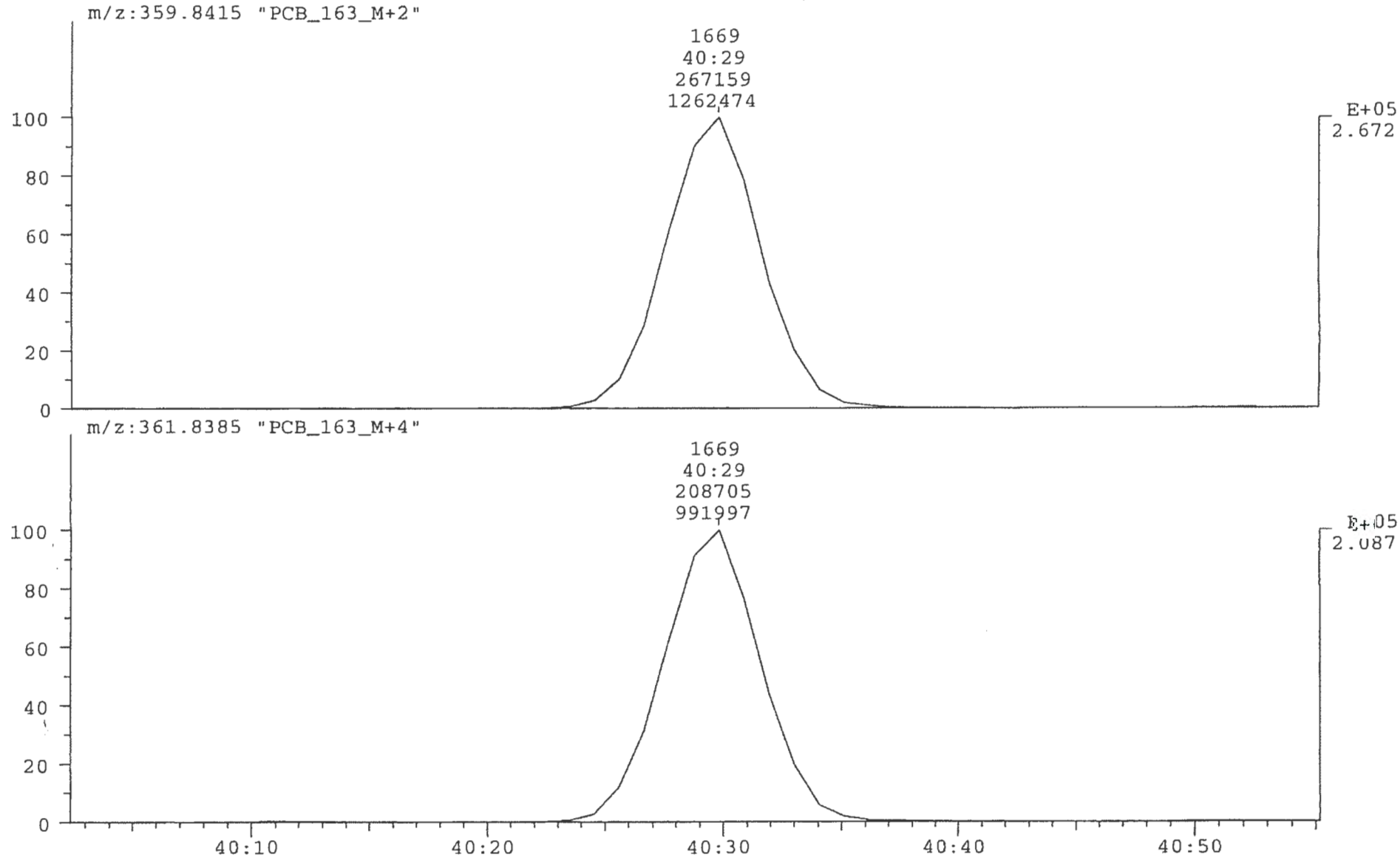
```
CHRO:  a07030742                                08-Mar-07   Elapse:  56:11      2555
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1890 > 1918           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



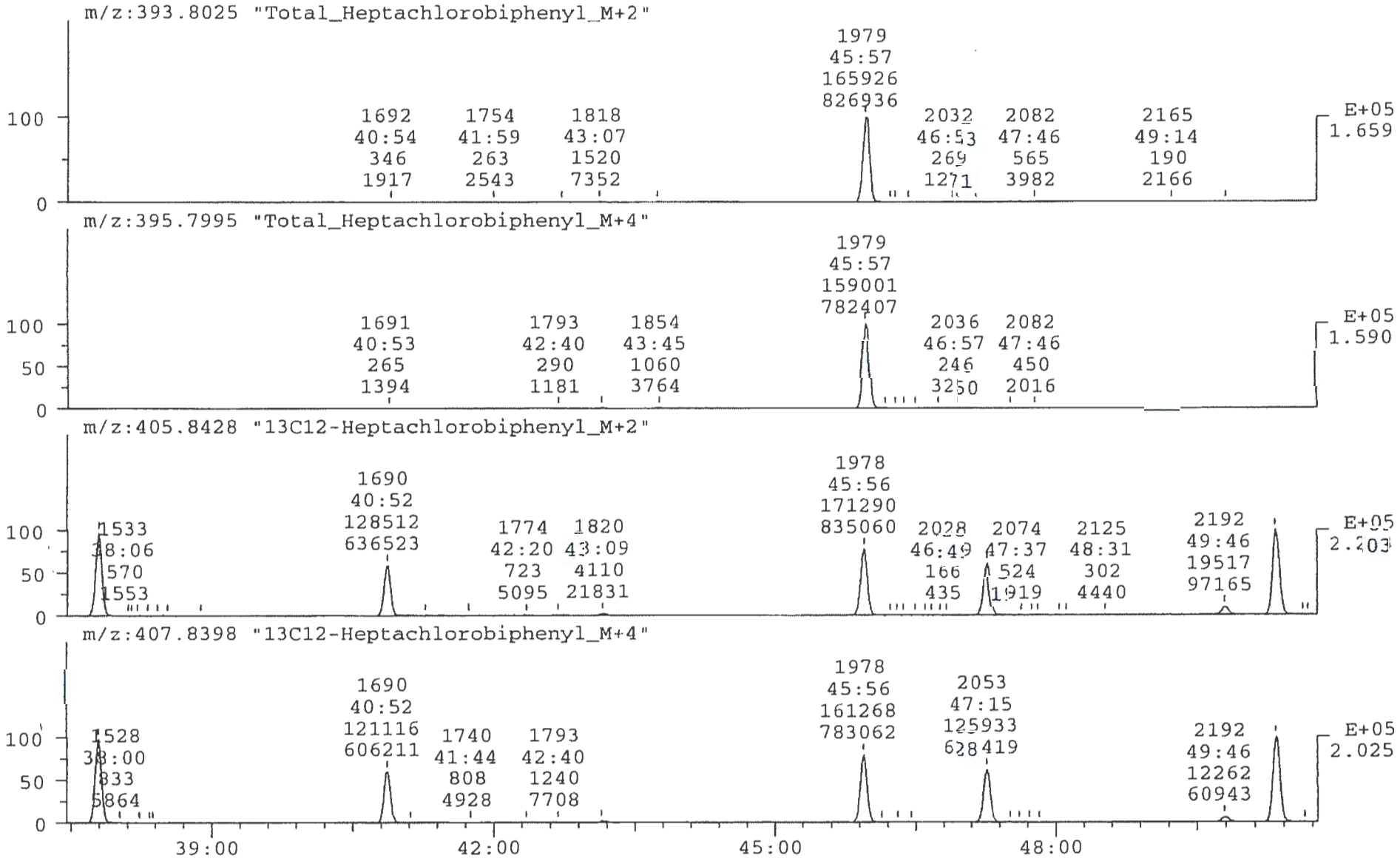
```
CHRO:  a07030742                              08-Mar-07   Elapse:  37:03      1474
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Cca1=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1409 > 1499         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



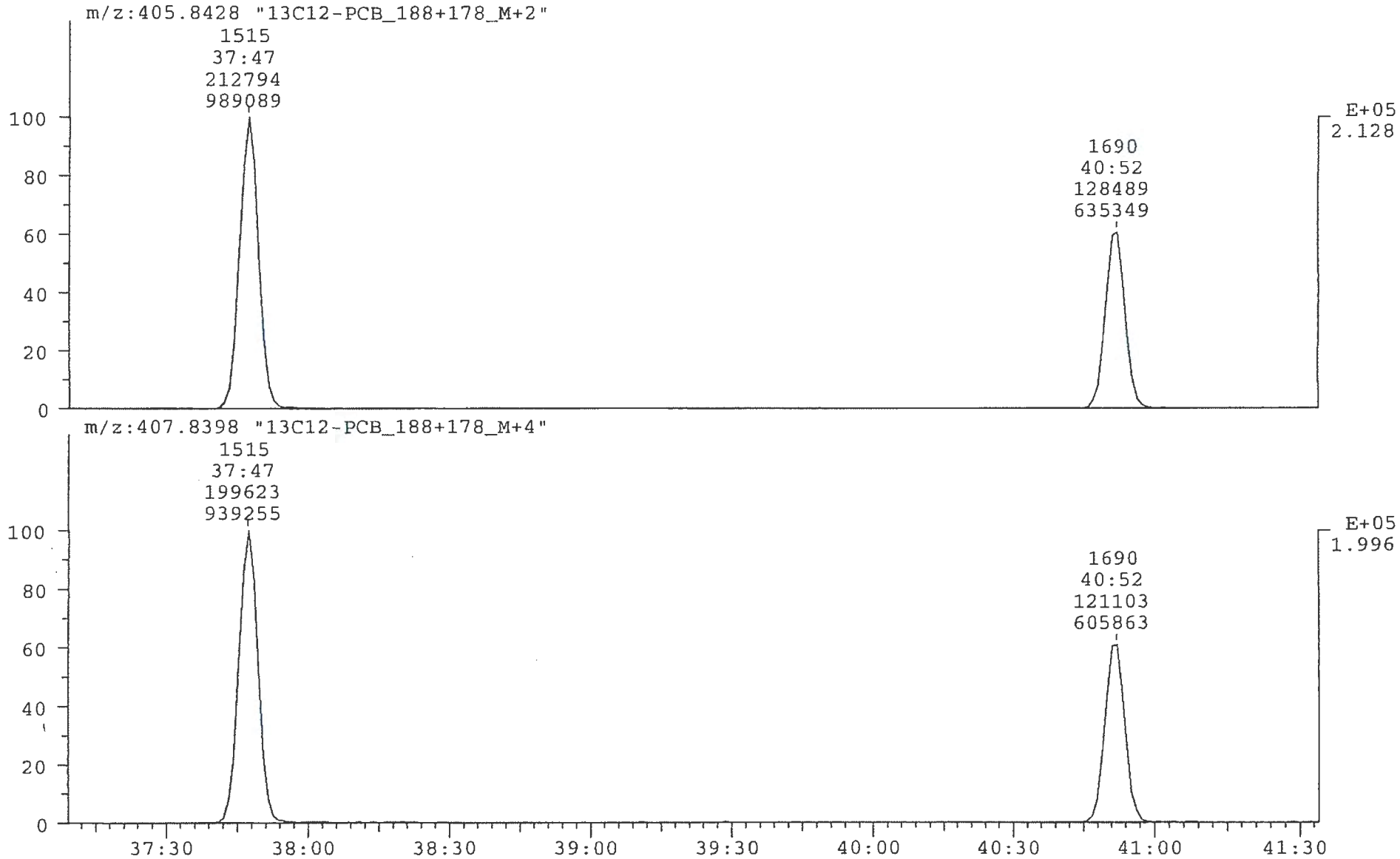
```
CHRO:  a07030742                              08-Mar-07   Elapse:  40:28      1668
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1643 > 1693         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



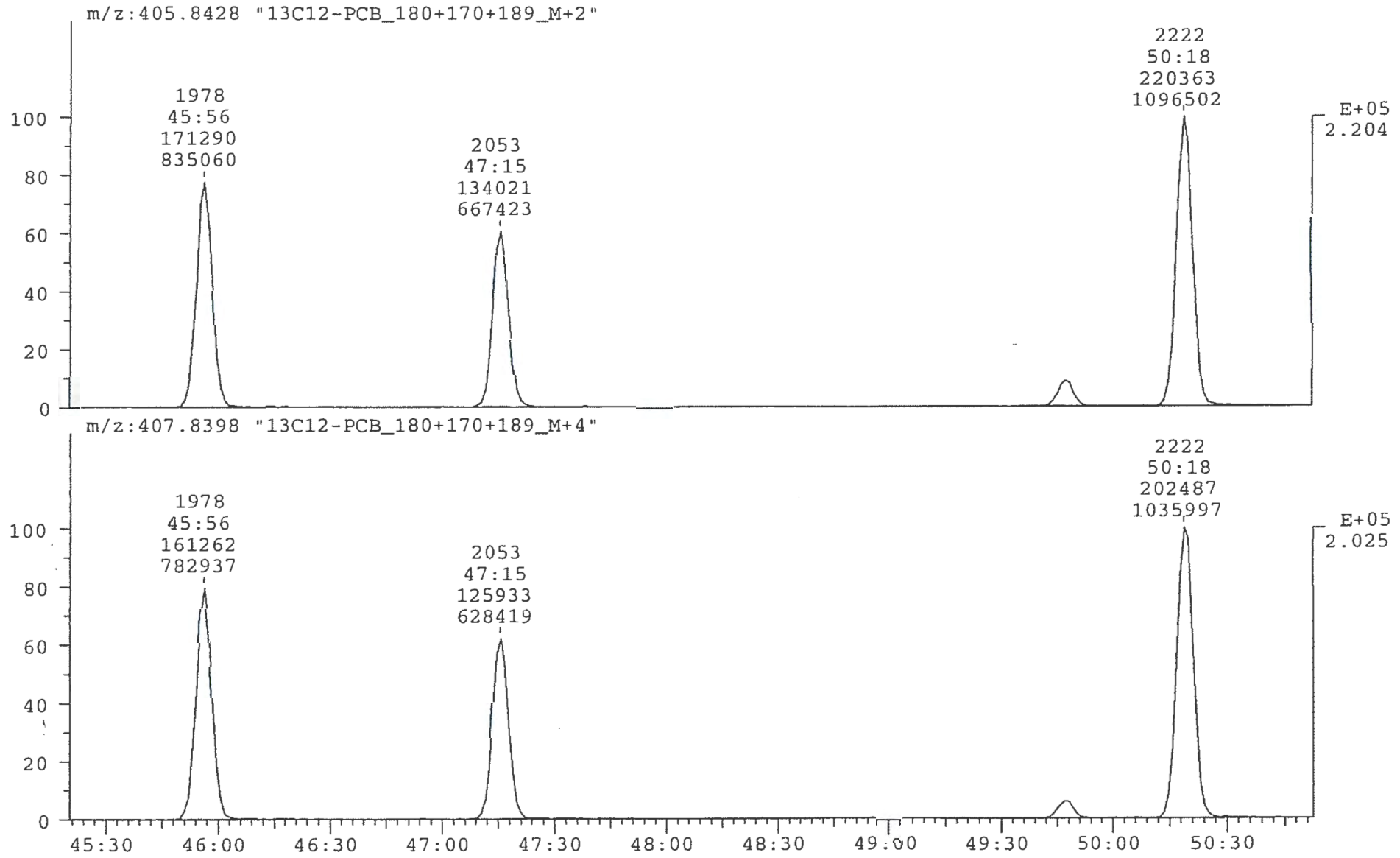
CHRO: a07030742 08-Mar-07 Elapse: 44:06 1874
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1496 > 2247 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



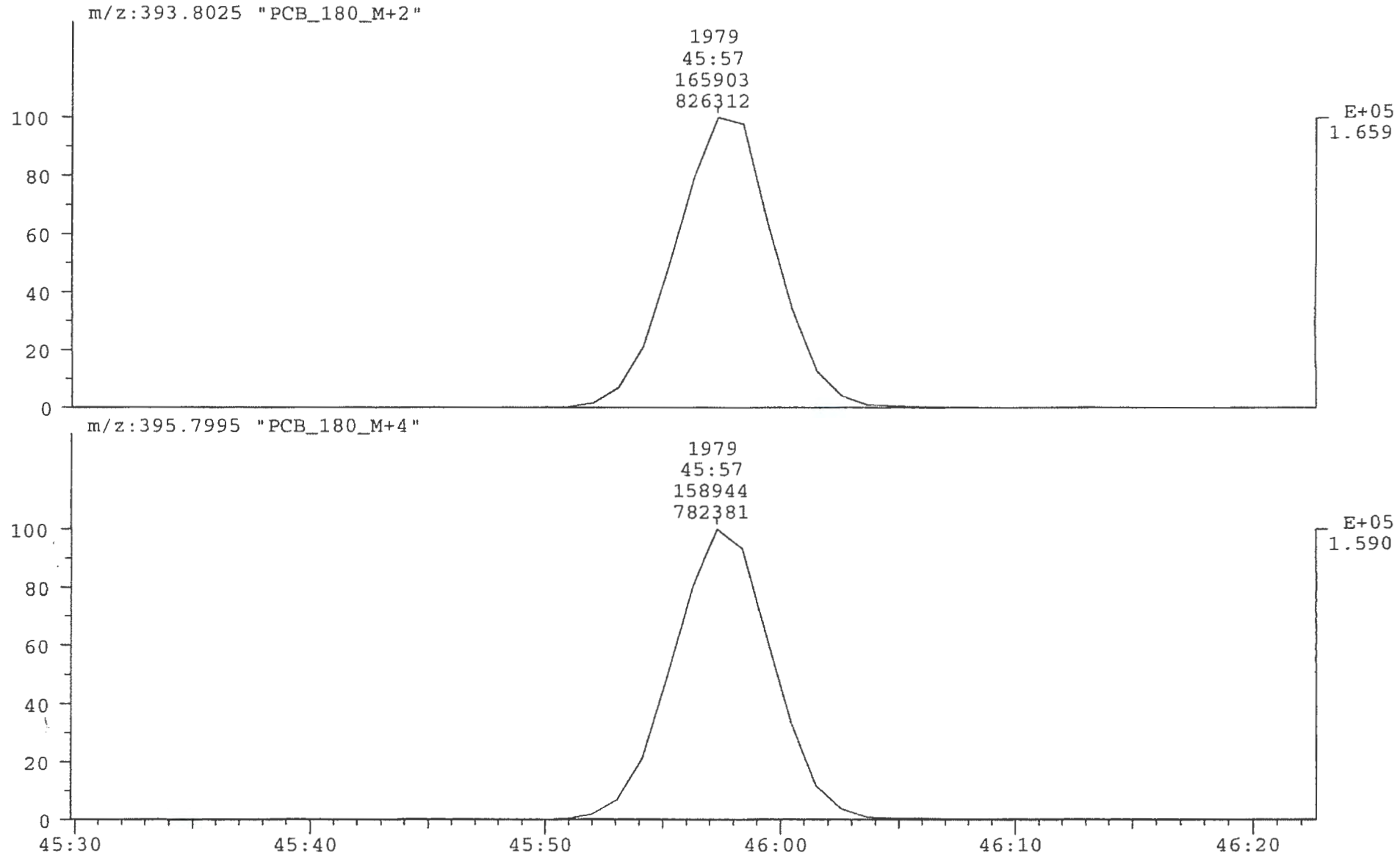
```
CHRO:  a07030742                                08-Mar-07   Elapse:  39:21      1604
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial  6
Peak:  100.00  ppm     Label wndw:   1479 > 1730            Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



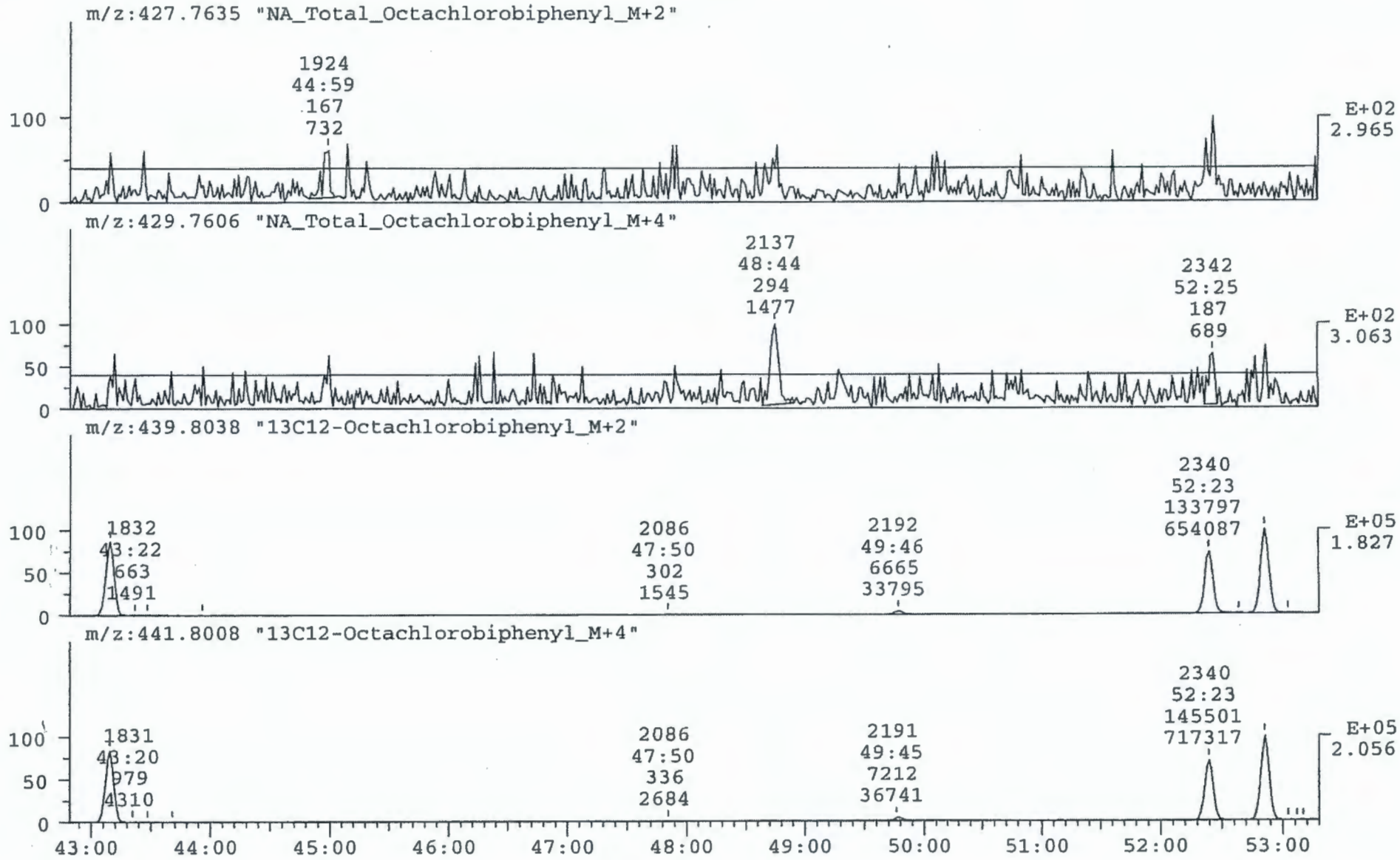
```
CHRO:  a07030742                                08-Mar-07   Elapse:  48:09      2104
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1944 > 2254           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



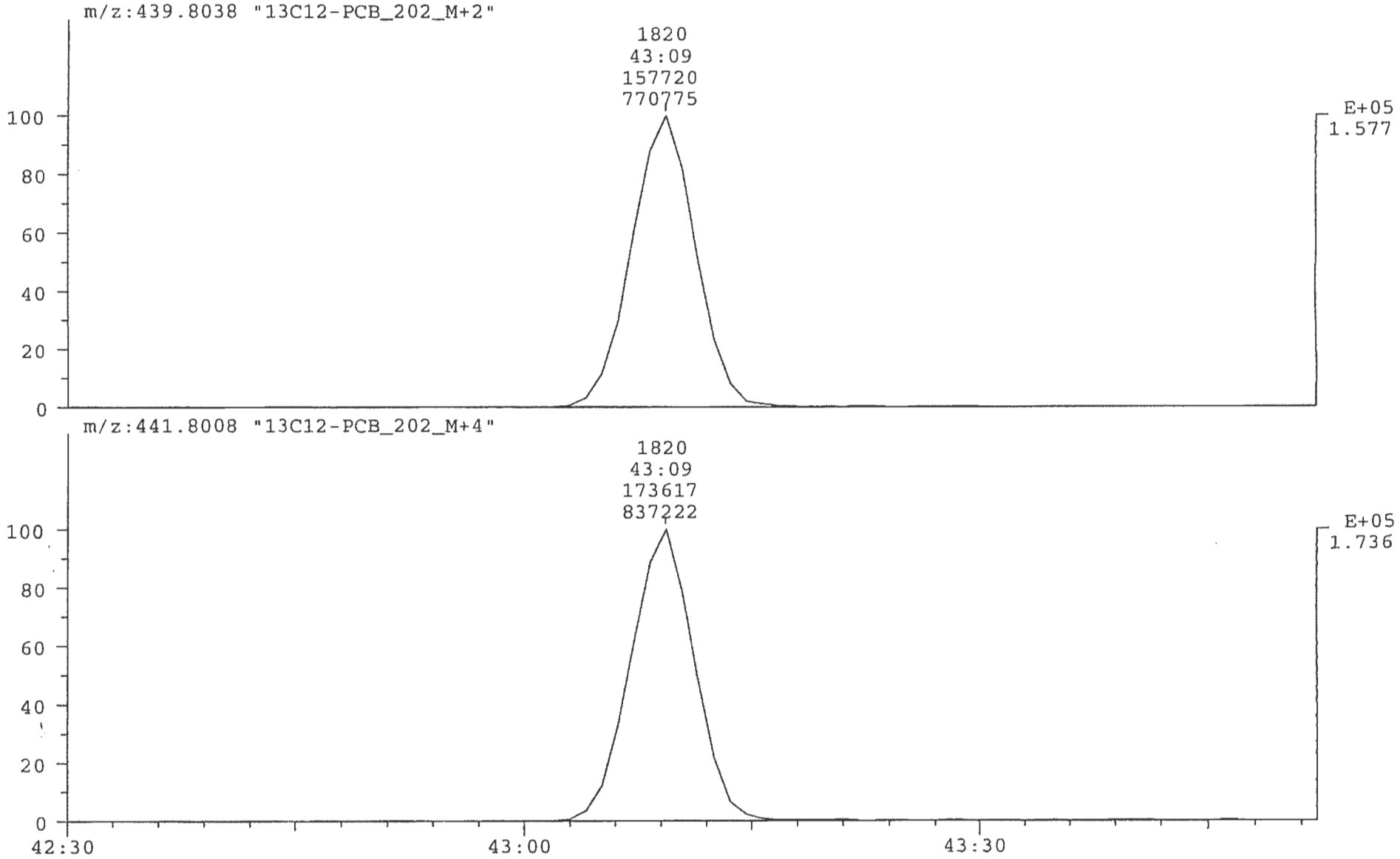
```
CHRO:  a07030742                              08-Mar-07   Elapse:  45:56      1978
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1953 > 2003         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030742 08-Mar-07 Elapse: 48:03 2098
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1801 > 2391 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

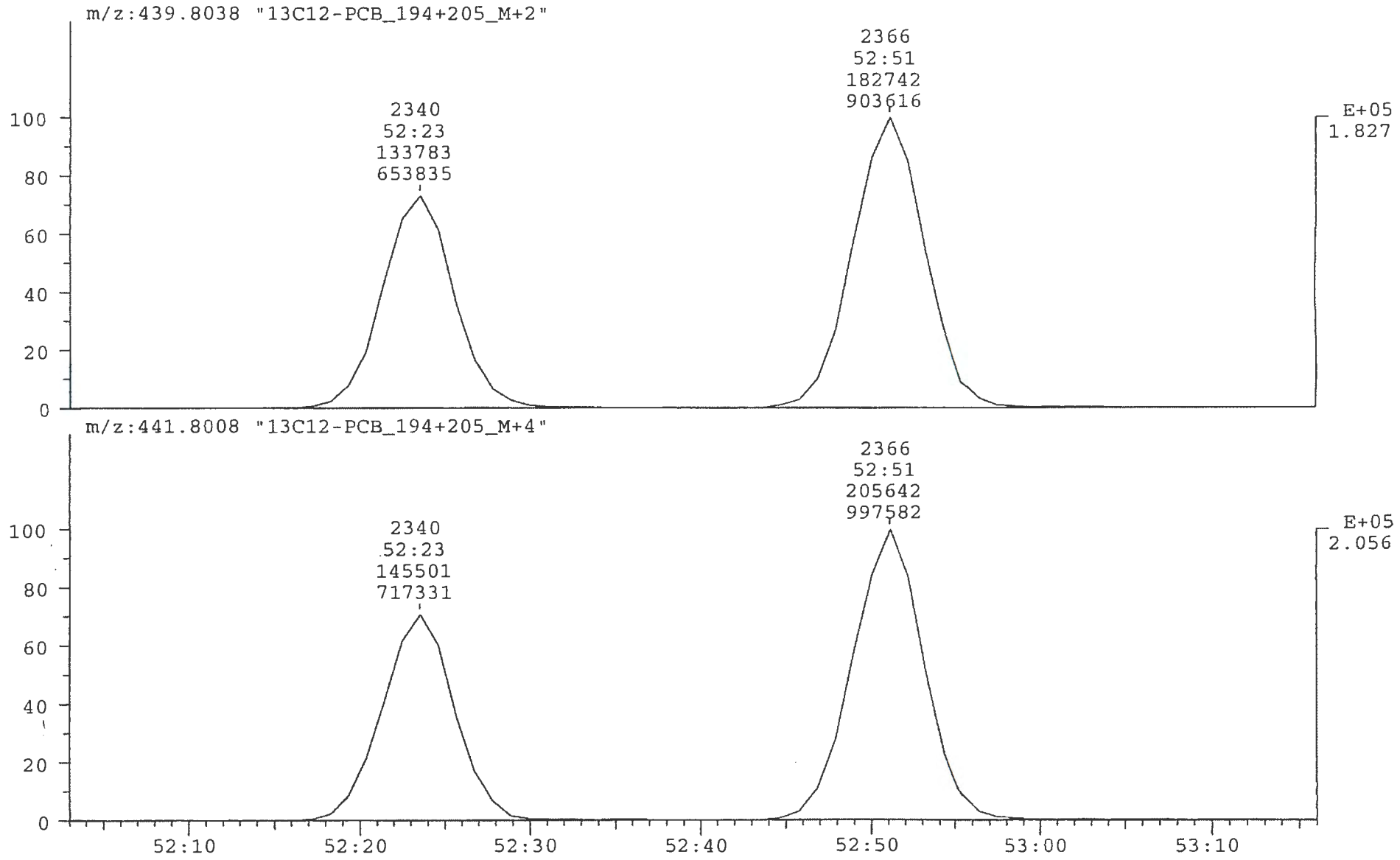


```
CHRO:  a07030742                                08-Mar-07   Elapse:  43:08      1819
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1783 > 1860           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```

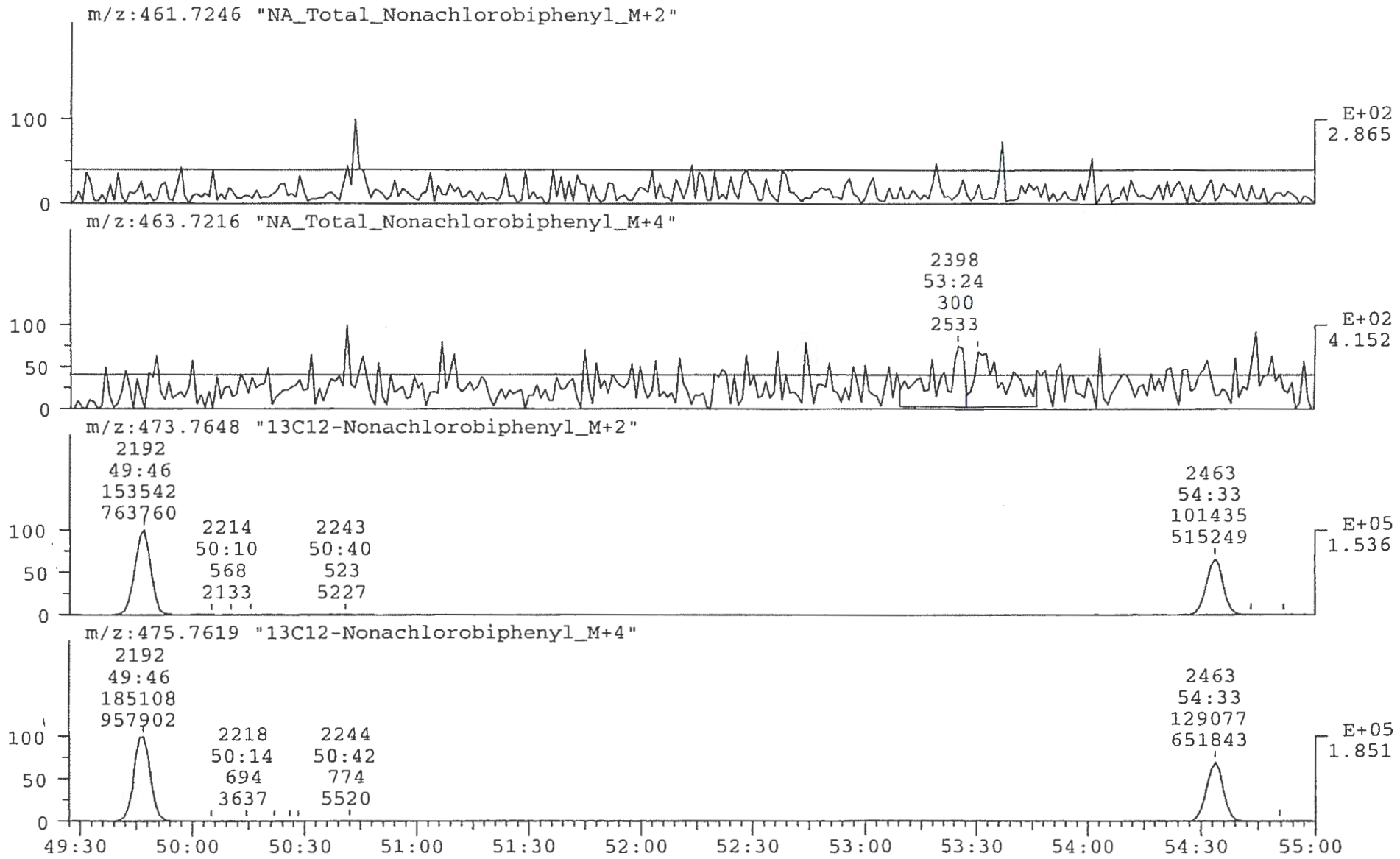


2426

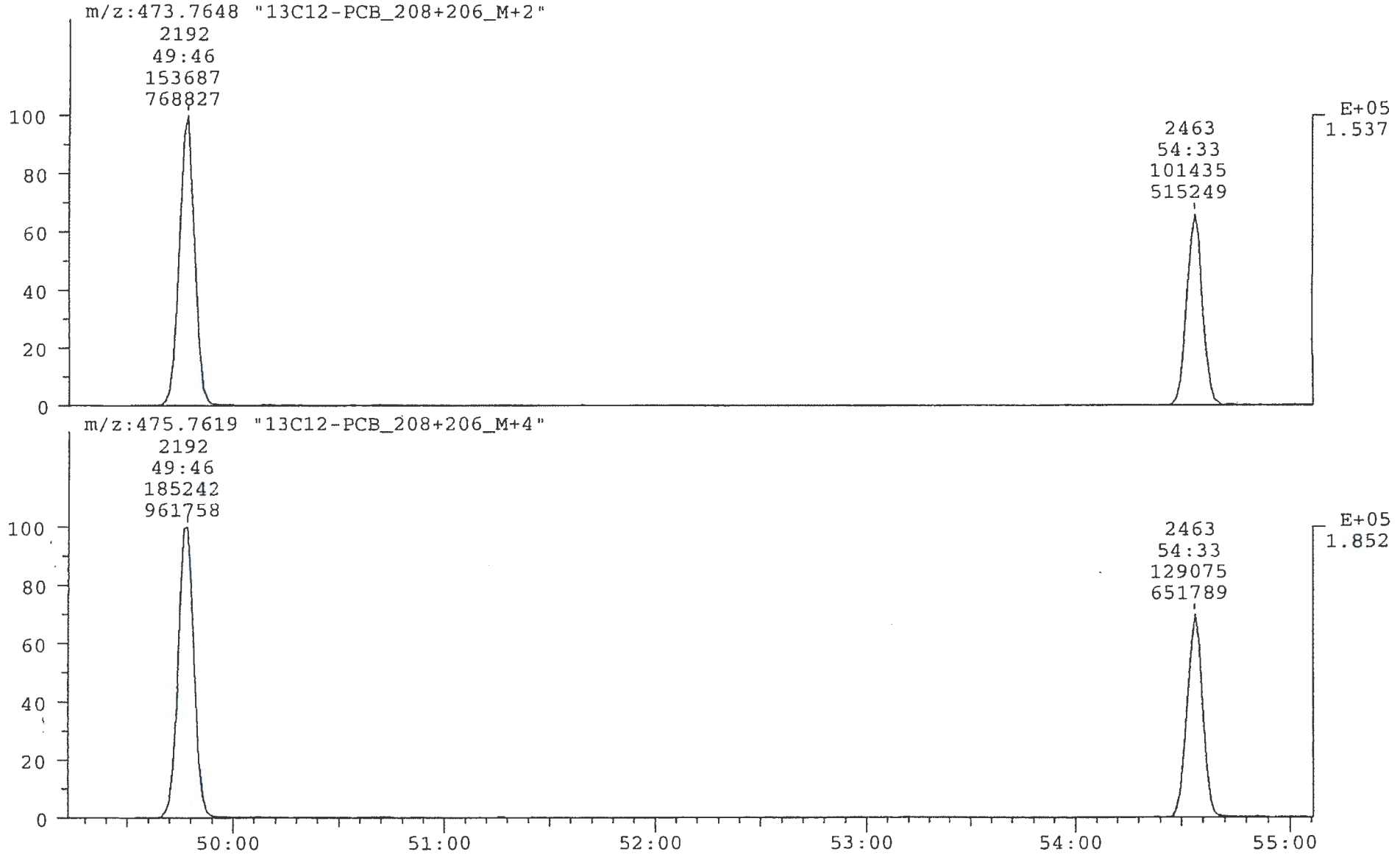
```
CHRO:  a07030742                                08-Mar-07   Elapse:  52:39      2355
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2321 > 2390           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



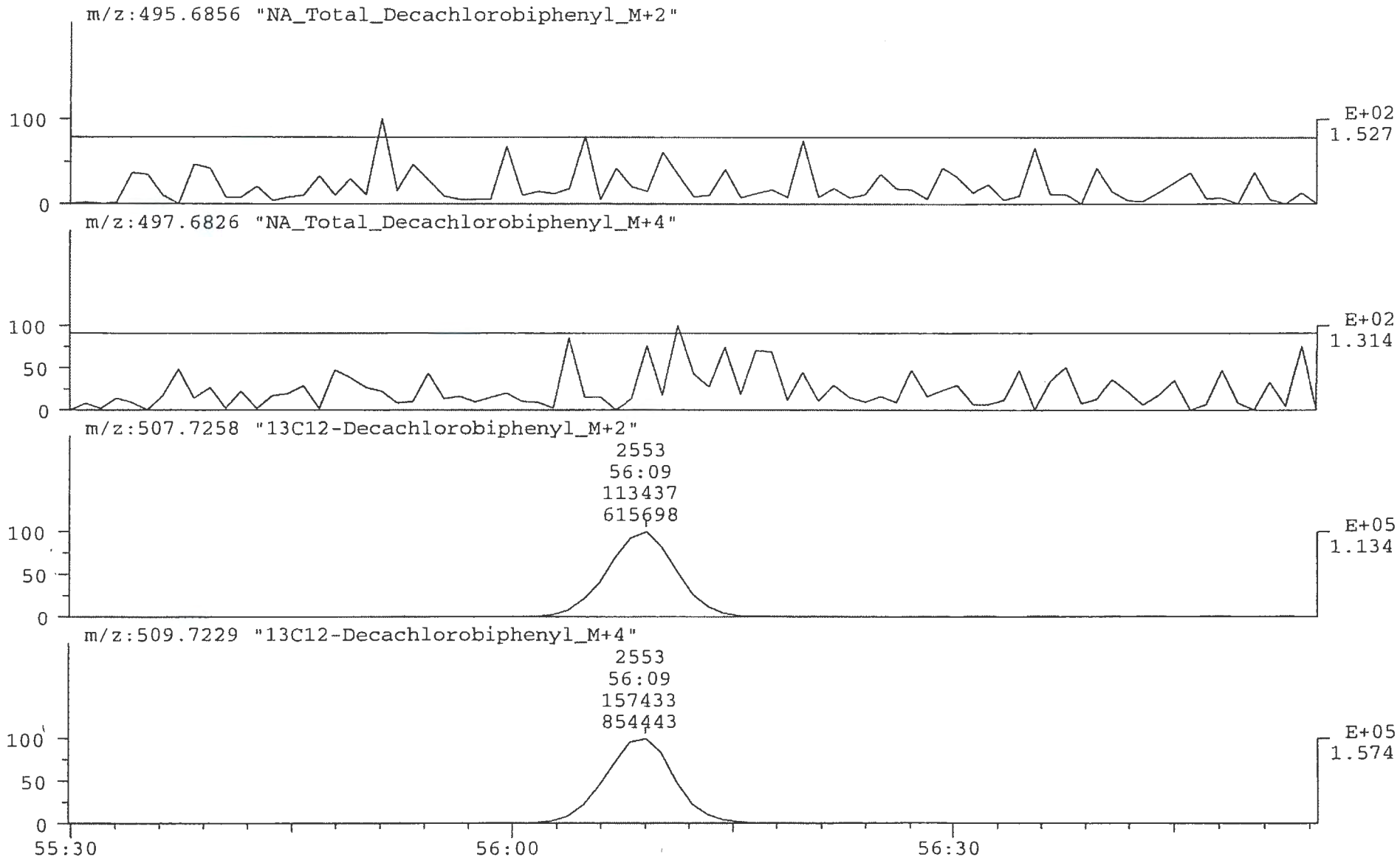
CHRO: a07030742 08-Mar-07 Elapse: 52:13 2330
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 01:17:09 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run2
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2173 > 2488 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030742                              08-Mar-07   Elapse:  52:11      2329
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2164 > 2494         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



```
CHRO:  a07030742                              08-Mar-07   Elapse:  56:12      2556
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  01:17:09   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run2
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   2516 > 2596         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



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

ICL Version: 10.710
File name: a07030742
Study: 1668 RT Mix4/Run2
Sample: WO=2990:75Mix4 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 6
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 9 of list 070307
ICL procedure: sleep7x
MID procedure: epa1668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	266.0000
FVINLET	253.0000	FVSRC	837.0000	FWIN	0.7000
GCTC	211.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	1.0980	HVANAL	1307.0000
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	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2606.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7000	TCURR	0.6641
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 01:17:09.7

Autosampler has injected sample from vial 6
MID Time Window 1: Resolution is 8226
MID Time Window 2: Resolution is 8406
MID Time Window 3: Resolution is 9024
MID Time Window 4: Resolution is 8436
Analysis stopped at: 08-Mar-07 02:14:12.8 (run time 57.03 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030743.	Prep Date		SDG No	
Analysis ID	96250	Prep Exp Date		Date Received	
Analysis Date	03/08/07 06:25	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					**188.0393**	**190.0363**	**188.0393**	**190.0363**	**2.66-3.60**		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
200					**200.0795**	**202.0766**	**200.0795**	**202.0766**	**2.66-3.60**		
	Noise	00:00	00:00	0	170	323	68	129	0.53 *	/	
	13C12-PCB 1	12:12	00:00	0	2449549	767334	987924	298237	3.19	AVV/AVV	
	13C12-PCB 3	14:24	00:00	0	2411203	745995	761854	239639	3.23	AVV/AVV	
222					**222.0003**	**223.9974**	**222.0003**	**223.9974**	**1.33-1.79**		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
234					**234.0406**	**236.0376**	**234.0406**	**236.0376**	**1.33-1.79**		
	Noise	00:00	00:00	0	353	245	141	98	1.44	/	
	13C12-PCB 4	14:42	00:00	0	1022398	636656	341480	208536	1.61	AVV/ABV	
	13C12-PCB 9	16:39	00:00	0	1744097	1082783	521268	323728	1.61	ABV/ABV	
	13C12-PCB 8	17:32	00:00	0	1770670	1103608	483476	301747	1.60	AVV/AVV	
	13C12-PCB 15	20:40	00:00	0	1765568	1105977	464369	288816	1.60	ABV/ABV	
256					**255.9613**	**257.9584**	**255.9613**	**257.9584**	**0.88-1.20**		
	Noise	00:00	00:00	0	220	195	88	78	1.13	/	
	PCB 25 (BZ)	23:05	00:00	0	870439	829431	214736	206881	1.05	ABV/ABV	D
	PCB 21 (BZ)	23:54	00:00	0	809705	787339	196493	190996	1.03	AVV/AVV	D
268					**268.0016**	**269.9986**	**268.0016**	**269.9986**	**0.88-1.20**		
	Noise	00:00	00:00	0	560	343	224	137	1.64 *	/	
	13C12-PCB 19	17:52	00:00	0	625269	561393	166424	152736	1.11	AVV/AVV	
	13C12-PCB 32	21:08	00:00	0	1138054	1027083	286144	266999	1.11	AVV/ABV	
	13C12-PCB 31	23:23	00:00	0	1708671	1616140	420083	411244	1.06	AVV/ABV	
	13C12-PCB 28	23:40	00:00	0	1570855	1477920	370877	360951	1.06	AVV/AVV	
	13C12-PCB 37	27:45	00:00	0	1517439	1401089	339783	313670	1.08	ABV/ABV	
290					**289.9224**	**291.9194**	**289.9224**	**291.9194**	**0.65-0.89**		
	Noise	00:00	00:00	0	260	278	104	111	0.94 *	/	
	PCB 69 (BZ)	25:55	00:00	0	1122356	1420868	271518	333468	0.79	ABV/ABV	
	PCB 47 (BZ)	26:34	00:00	0	957777	1217065	223980	276729	0.79	ABV/ABV	M
	PCB 42 (BZ)	27:06	00:00	0	806263	1024830	187801	237198	0.79	AVV/AVV	D
	PCB 64 (BZ)	27:49	00:00	0	1221544	1573996	279249	358578	0.78	ABV/AVV	D
	PCB 70 (BZ)	30:20	00:00	0	1254005	1599933	277802	350513	0.78	ABV/ABV	
302					**301.9626**	**303.9597**	**301.9626**	**303.9597**	**0.65-0.89**		
	Noise	00:00	00:00	0	153	153	61	61	1.00 *	/	
	13C12-PCB 54	21:01	00:00	0	534425	653953	138539	162839	0.82	ABV/ABV	
	13C12-PCB 52	25:32	00:00	0	814065	1020770	186408	235072	0.80	ABV/ABV	
	13C12-PCB 79	33:27	00:00	0	1134857	1434285	243724	308111	0.79	AVV/ABV	
	13C12-PCB 81	34:29	00:00	0	1036649	1282692	217859	268490	0.81	ABV/ABV	D
	13C12-PCB 77	35:04	00:00	0	1074330	1328208	219013	266424	0.81	ABB/ABV	D
326					**325.8804**	**327.8775**	**325.8804**	**327.8775**	**1.32-1.78**		
	Noise	00:00	00:00	0	185	183	74	73	1.01 *	/	
	PCB 102 (BZ)	29:49	00:00	0	1047098	654742	229144	138970	1.60	ABV/ABV	
	PCB 97 (BZ)	33:30	00:00	0	949507	597831	208156	129527	1.59	ABV/ABV	DM
	PCB 115 (BZ)	34:24	00:00	0	1362730	862574	290715	177859	1.58	AVV/AVV	DM

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030743.	Prep Date		SDG No	
Analysis ID	96250	Prep Exp Date		Date Received	
Analysis Date	03/08/07 06:25	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	PCB 123 (BZ)	37:01	00:00	0	1602814	1042040	332019	214183	1.54	AVV/ABV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	168	160	67	64	1.05 *	/	
	13C12-PCB 104	26:27	00:00	0	1203766	745094	276405	174661	1.62	ABV/ABV	D
	13C12-PCB 95	29:29	00:00	0	915447	560783	207340	126946	1.63	ABV/ABV	D
	13C12-PCB 101	32:20	00:00	0	967915	608470	209236	131482	1.59	AVV/AVV	
	13C12-PCB 111	34:58	00:00	0	1218881	750278	272812	161827	1.62	ABV/ABV	
	13C12-PCB 123	37:00	00:00	0	1464135	924100	304791	196392	1.58	ABV/ABV	D
	13C12-PCB 118	37:19	00:00	0	1541932	959064	320113	205467	1.61	AVV/AVV	D
	13C12-PCB 114	37:51	00:00	0	1487558	923413	301081	191095	1.61	AVV/AVV	D
	13C12-PCB 105	38:34	00:00	0	1433361	915252	298662	187549	1.57	ABV/AVV	D
	13C12-PCB 127	39:57	00:00	0	1602834	989611	331849	201605	1.62	ABV/ABV	
	13C12-PCB 126	41:37	00:00	0	1509767	952723	306078	192081	1.58	ABV/AVV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	178	168	71	67	1.06	/	
	PCB 134 (BZ)	36:27	00:00	0	791388	621341	172103	132749	1.27	ABV/ABV	D
	PCB 131 (BZ)	37:02	00:00	0	854092	675105	181398	142948	1.27	AVV/AVV	D
	PCB 163 (BZ)	40:28	00:00	0	1334842	1059907	277567	225386	1.26	ABV/ABV	M
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	140	163	56	65	0.86 *	/	
	13C12-PCB 155	32:01	00:00	0	993428	788168	211640	166555	1.26	ABV/ABV	D
	13C12-PCB 153	39:07	00:00	0	1022319	792413	217184	171515	1.29	ABV/ABV	D
	13C12-PCB 138	40:27	00:00	0	1034027	807271	211974	164392	1.28	ABV/ABV	
	13C12-PCB 167	43:23	00:00	0	1262577	991620	269868	209129	1.27	AVV/AVV	
	13C12-PCB 156	44:33	00:00	0	1010190	991549	252020	198966	1.02 *	ABV/ABV	RD
	13C12-PCB 157	44:38	00:00	0	1455766	955520	278267	218155	1.52 *	AVB/AVB	RM
	13C12-PCB 169	47:48	00:00	0	1225304	957494	246062	191649	1.28	AVV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	125	315	50	126	0.40 *	/	
	PCB 180 (BZ)	45:55	00:00	0	851394	825913	177924	169594	1.03	ABV/ABV	DM
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	163	160	65	64	1.02	/	
	13C12-PCB 188	37:45	00:00	0	1057622	998375	226094	214478	1.06	ABV/ABV	D
	13C12-PCB 178	40:50	00:00	0	676746	635170	138826	131535	1.07	ABV/ABV	
	13C12-PCB 180	45:54	00:00	0	891894	839734	186327	179399	1.06	ABV/ABV	
	13C12-PCB 170	47:13	00:00	0	716967	681810	138641	139157	1.05	AVV/AVV	
	13C12-PCB 189	50:17	00:00	0	1153822	1105589	228975	218909	1.04	ABV/ABV	D
428					427.7635	429.7606	427.7635	429.7606	0.76-1.02		
	Noise	00:00	00:00	0	0	0	0	0	0.00 *		
440					439.8038	441.8008	439.8038	441.8008	0.76-1.02		
	Noise	00:00	00:00	0	205	115	82	46	1.78 *	/	
	13C12-PCB 202	43:07	00:00	0	806939	875671	164603	181077	0.92	ABV/ABV	D
	13C12-PCB 194	52:22	00:00	0	692366	757002	135404	148548	0.91	ABV/ABV	

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX4	Prep Batch		Lot No	
Data File	/20070307rt/a07030743.	Prep Date		SDG No	
Analysis ID	96250	Prep Exp Date		Date Received	
Analysis Date	03/08/07 06:25	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

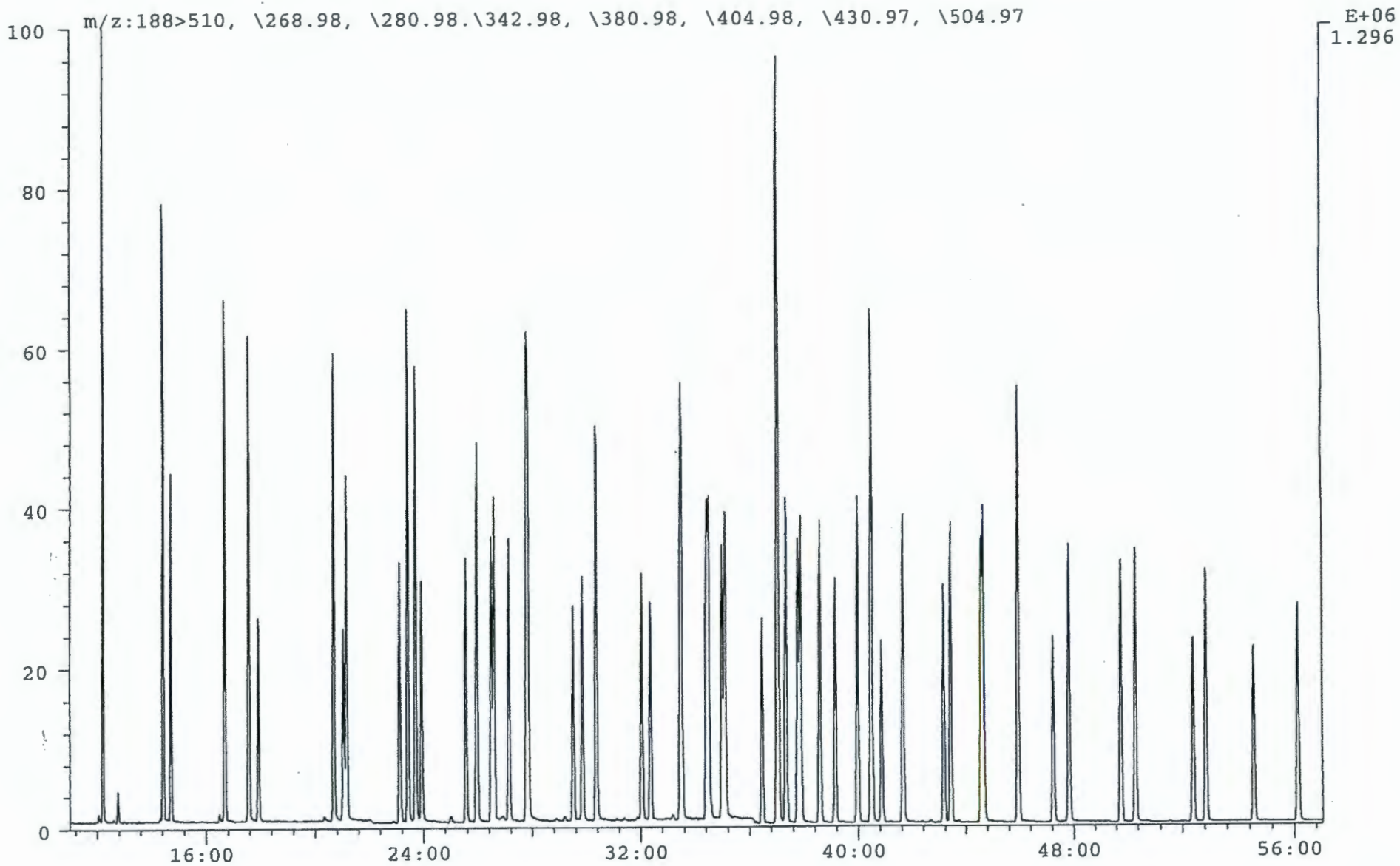
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**	
	13C12-PCB 205	52:49	00:00	0	962393	1066196	186938	206159	0.90	ABV/AVV
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**	
	Noise	00:00	00:00	0	0	0	0	0	0.00 *	
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**	
	Noise	00:00	00:00	0	175	163	70	65	1.08 *	/
	13C12-PCB 208	49:45	00:00	0	816427	1037178	162845	210398	0.79	AVV/AVV
	13C12-PCB 206	54:32	00:00	0	540467	693444	103121	133516	0.78	ABV/ABV
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**	
	Noise	00:00	00:00	0	0	0	0	0	0.00 *	
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**	
	Noise	00:00	00:00	0	133	128	53	51	1.04 *	/
	13C12-PCB 209	56:06	00:00	0	647048	916404	115275	168443	0.71	ABV/ABV

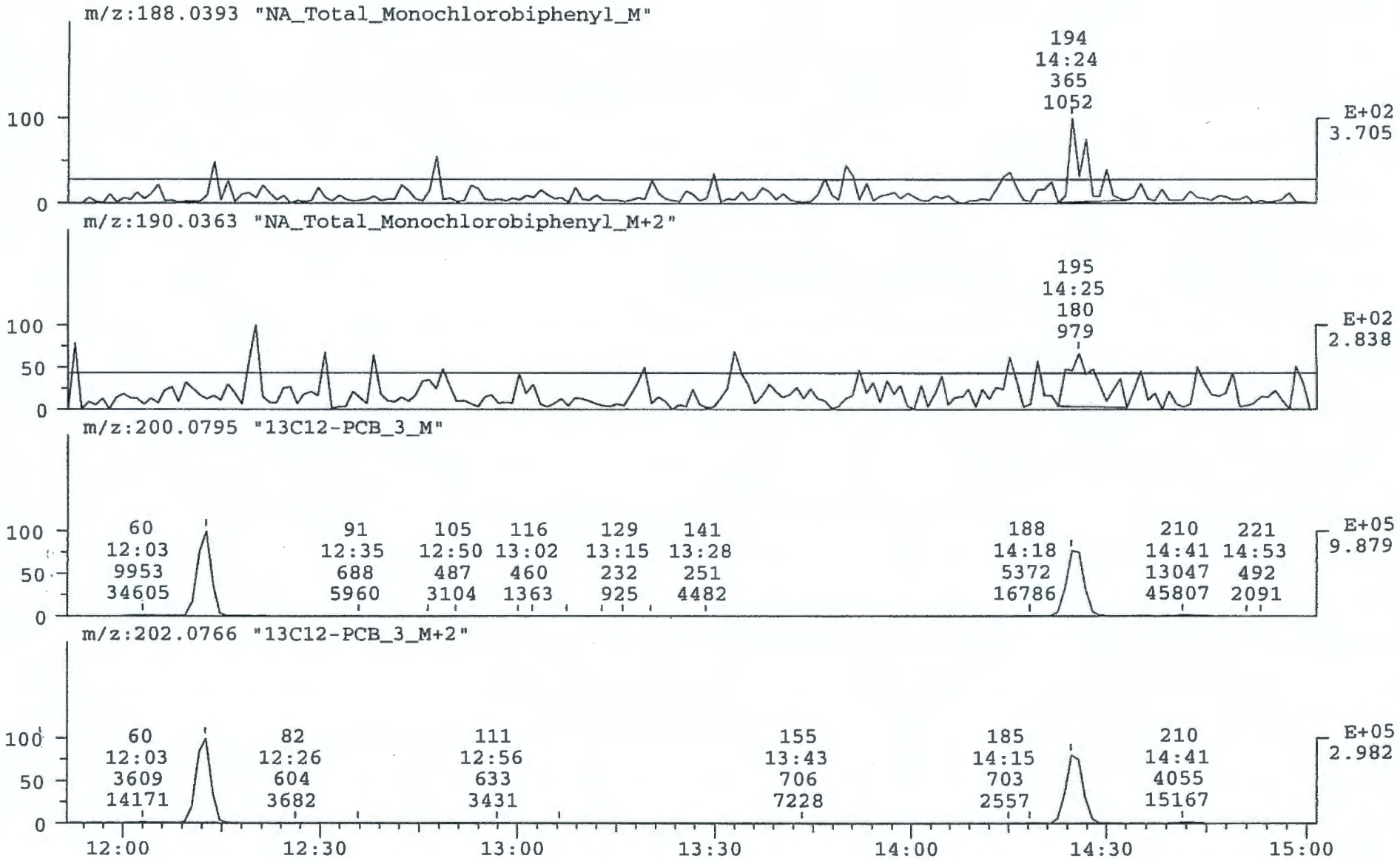
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

In + DCG 3-17-07
Cal DCG 3-19-07
QC KPW 3/19/07

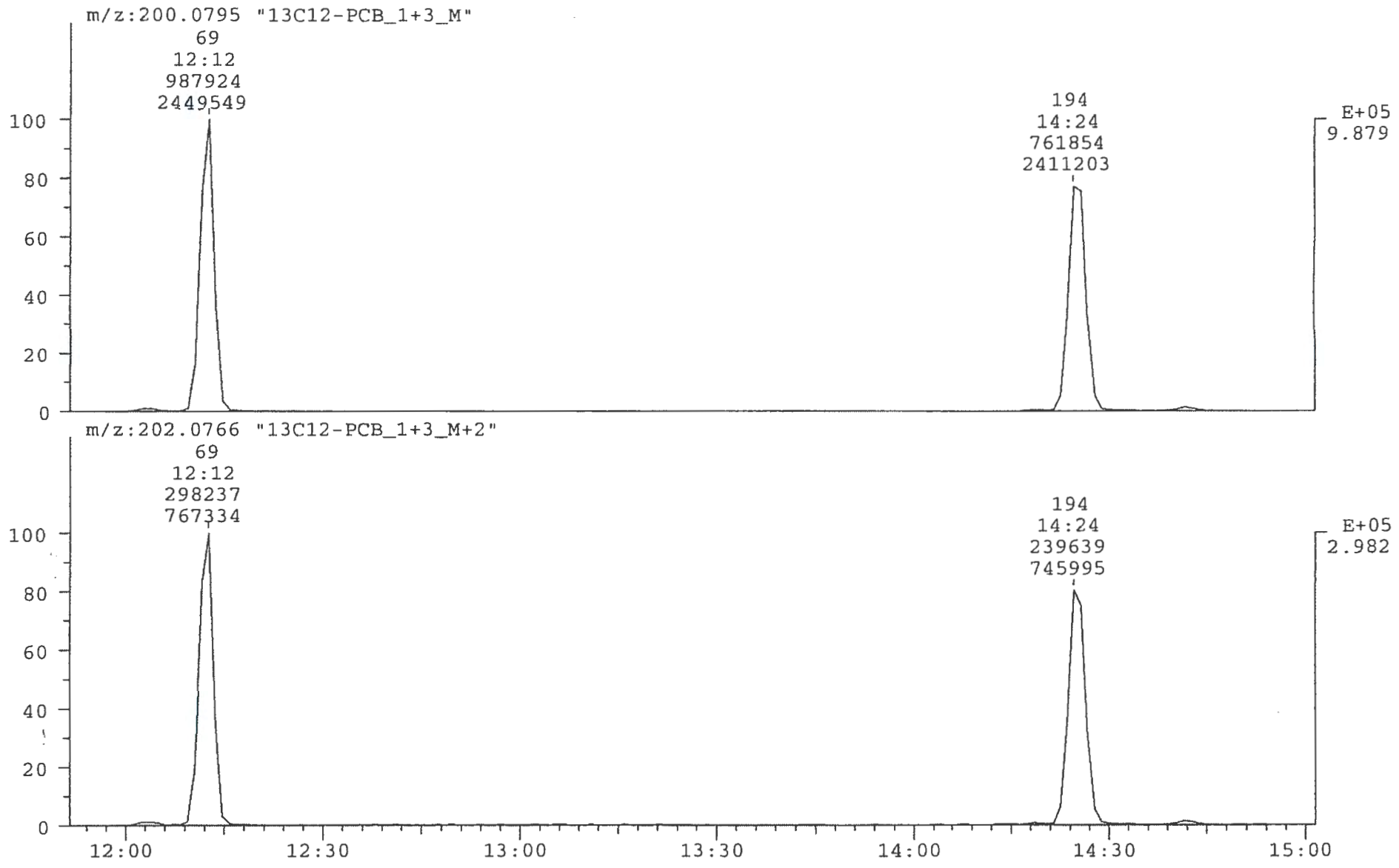
CHRO: a07030743 08-Mar-07 Elapse: 56:13 2556
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2 > 2601 Masses: 181 > 510
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area



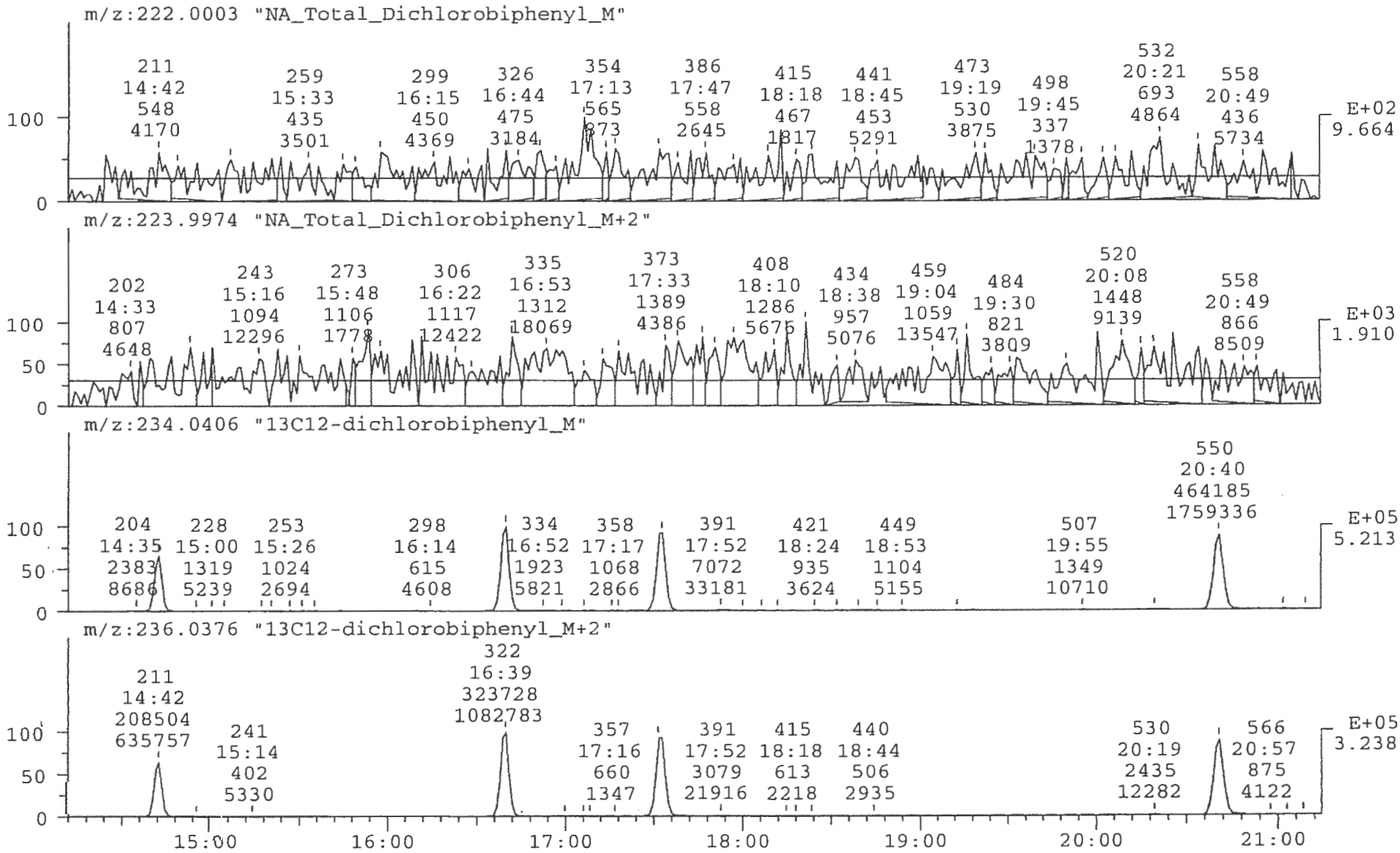
CHRO: a07030743 08-Mar-07 Elapse: 13:26.4 139
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 49 > 229 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



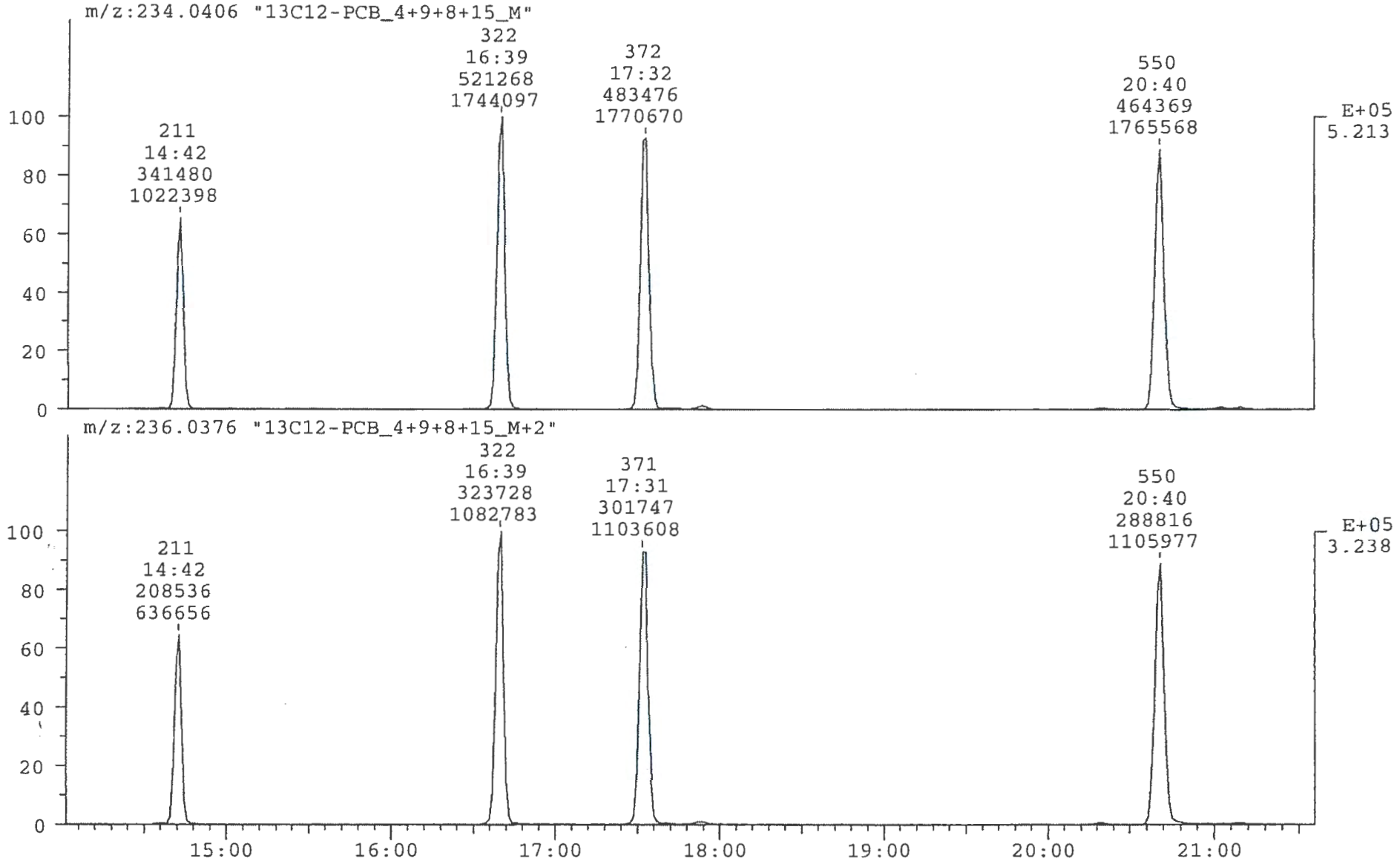
```
CHRO:  a07030743                                08-Mar-07  Elapse:  13:26.4      139
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   49 > 229            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



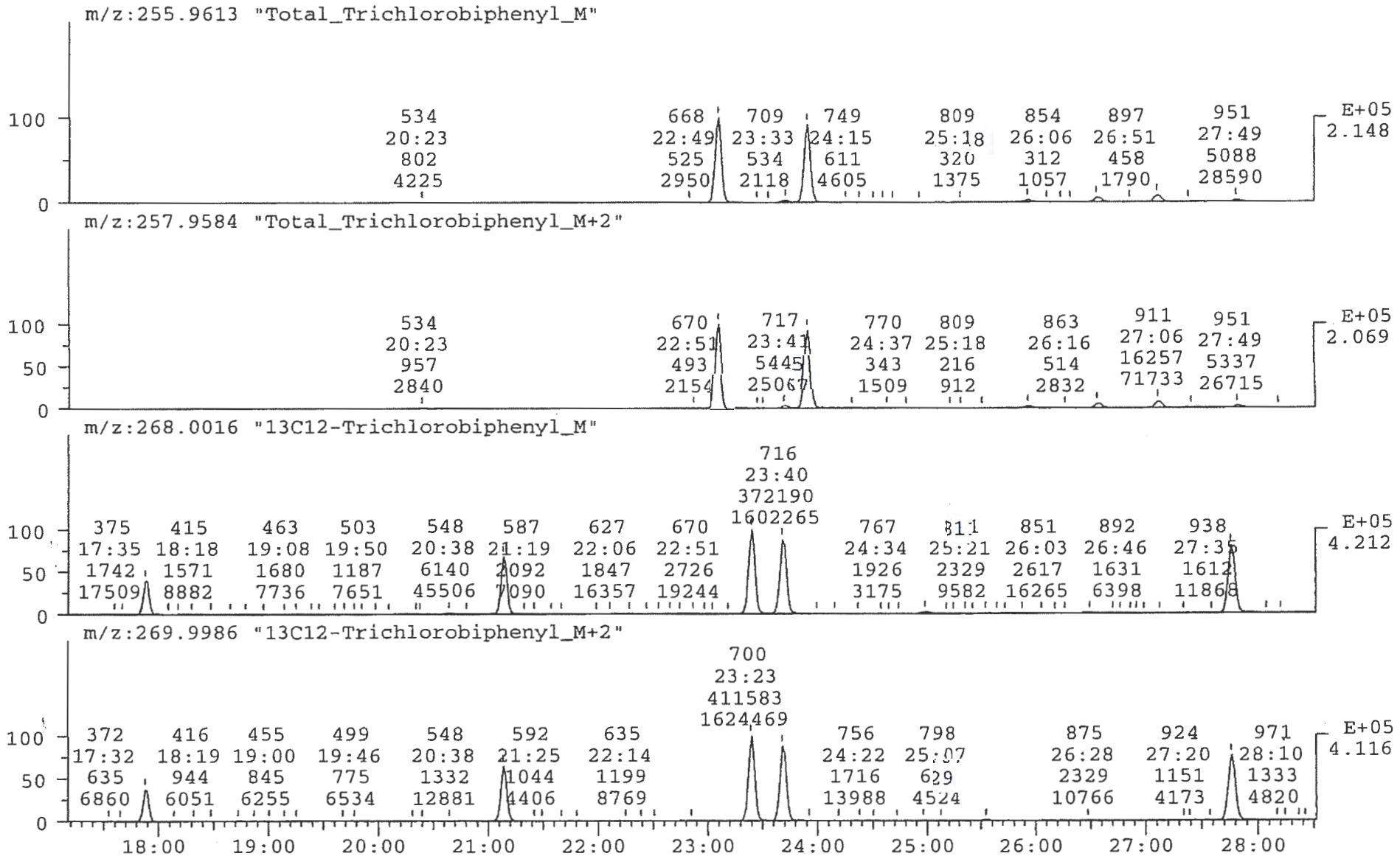
```
CHRO:  a07030743                                08-Mar-07   Elapse:  17:43.1      382
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   182 > 582             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



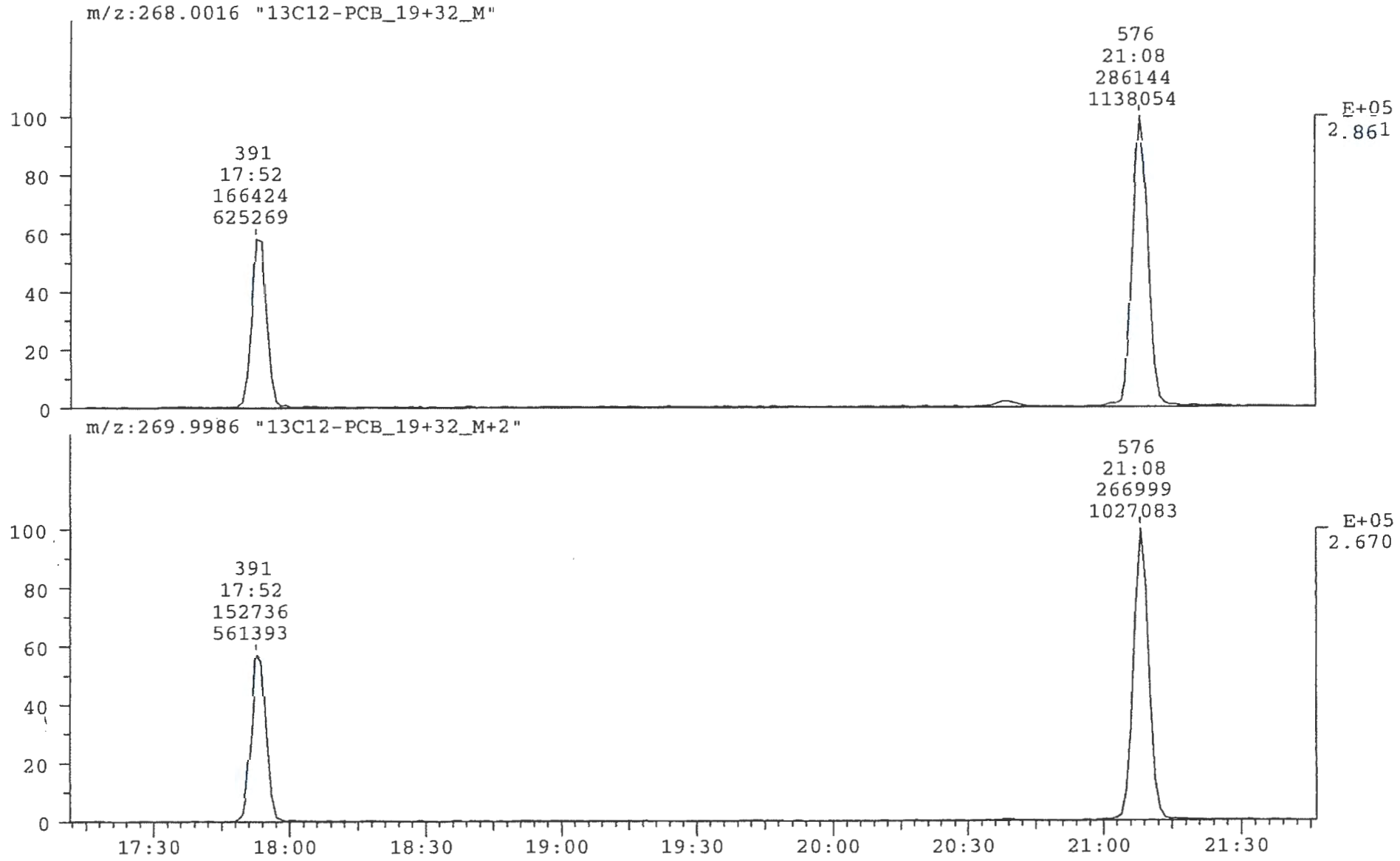
```
CHRO:  a07030743                                08-Mar-07   Elapse:  17:43.1      382
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   172 > 602             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



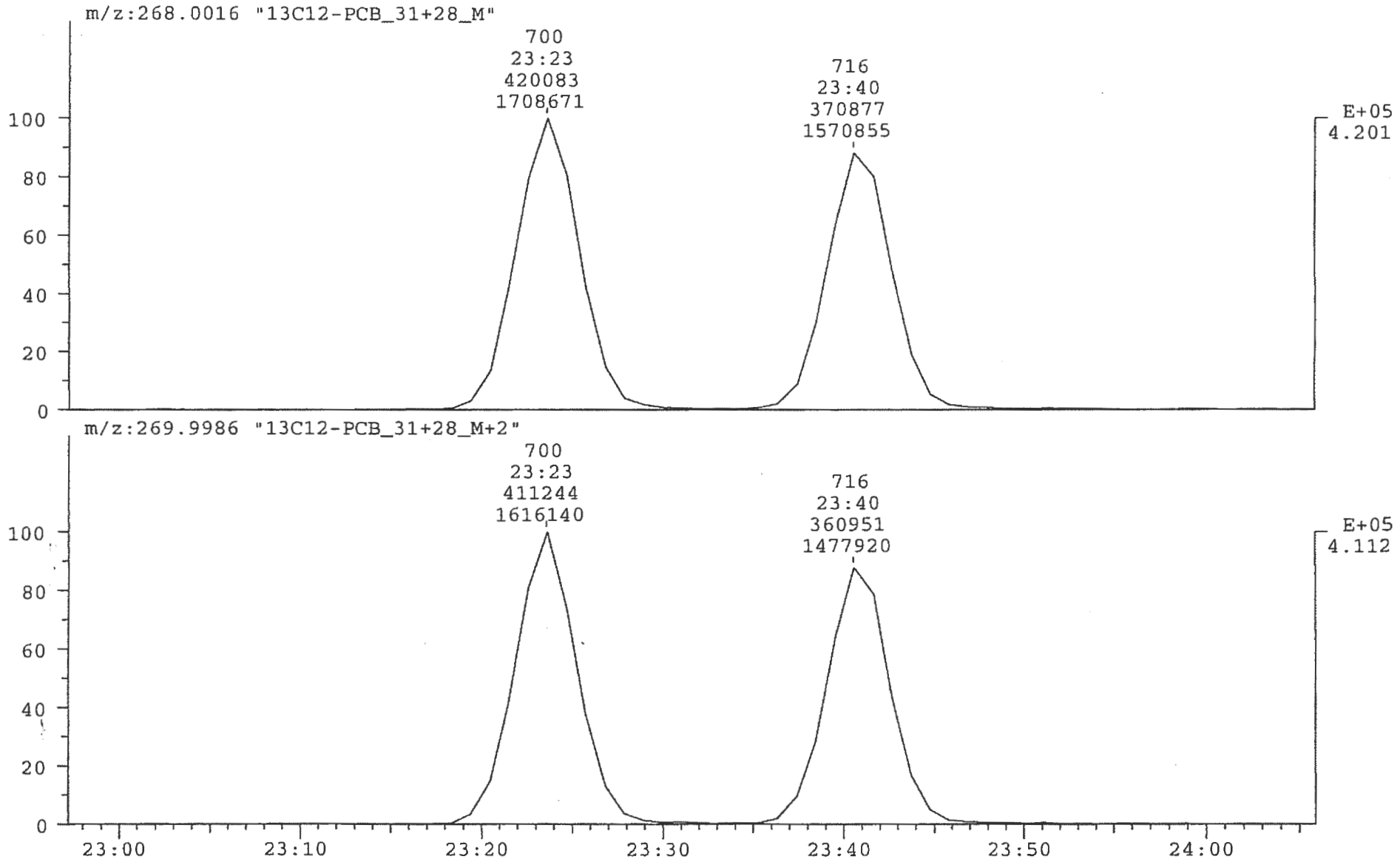
```
CHRO:  a07030743                                08-Mar-07  Elapse:  22:53.9      671
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   351 > 991           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



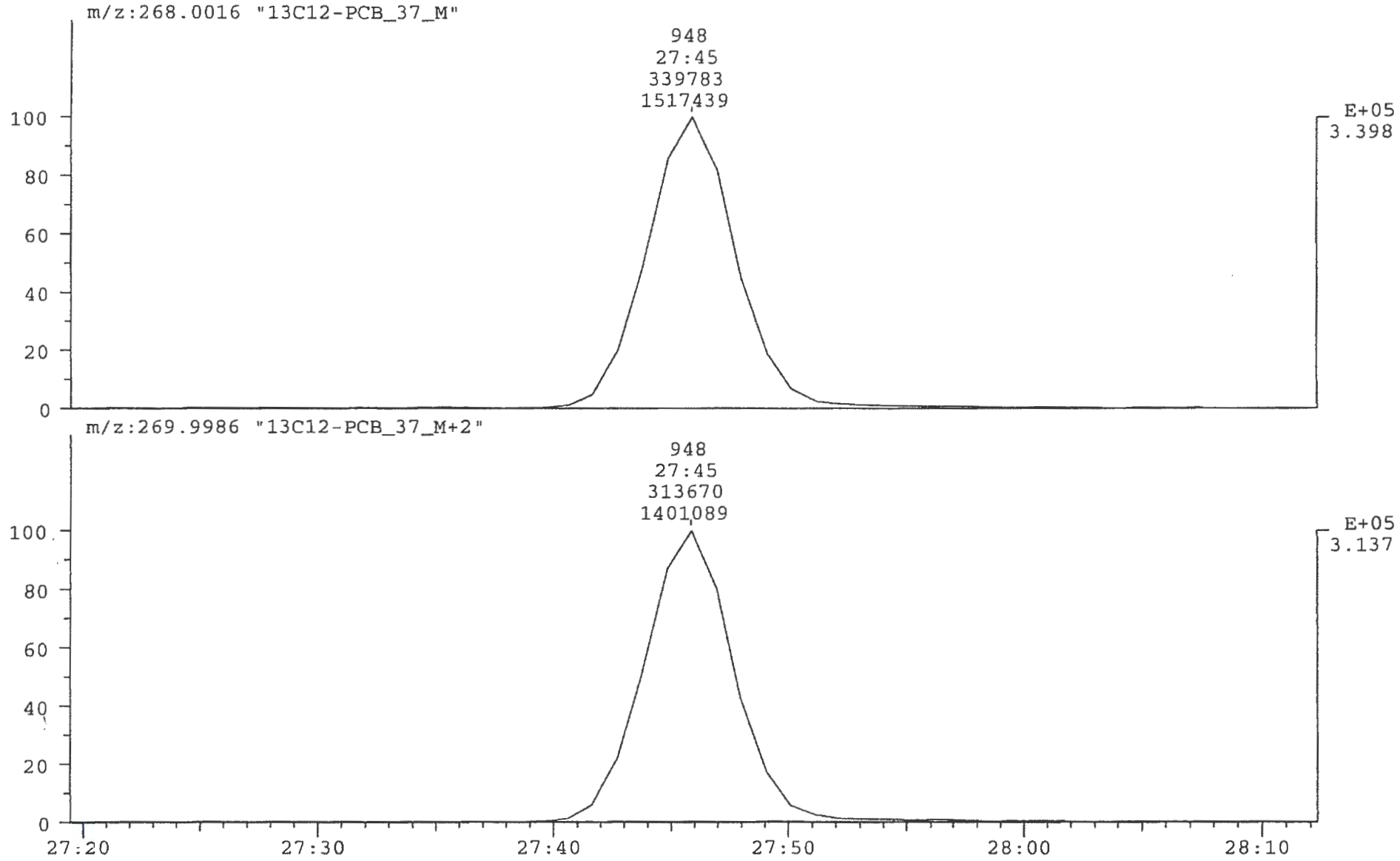
```
CHRO:  a07030743                                08-Mar-07   Elapse:  19:18.2      472
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   352 > 612             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 1                Label :  -3, 3.0
Disp:  Height  Area
```



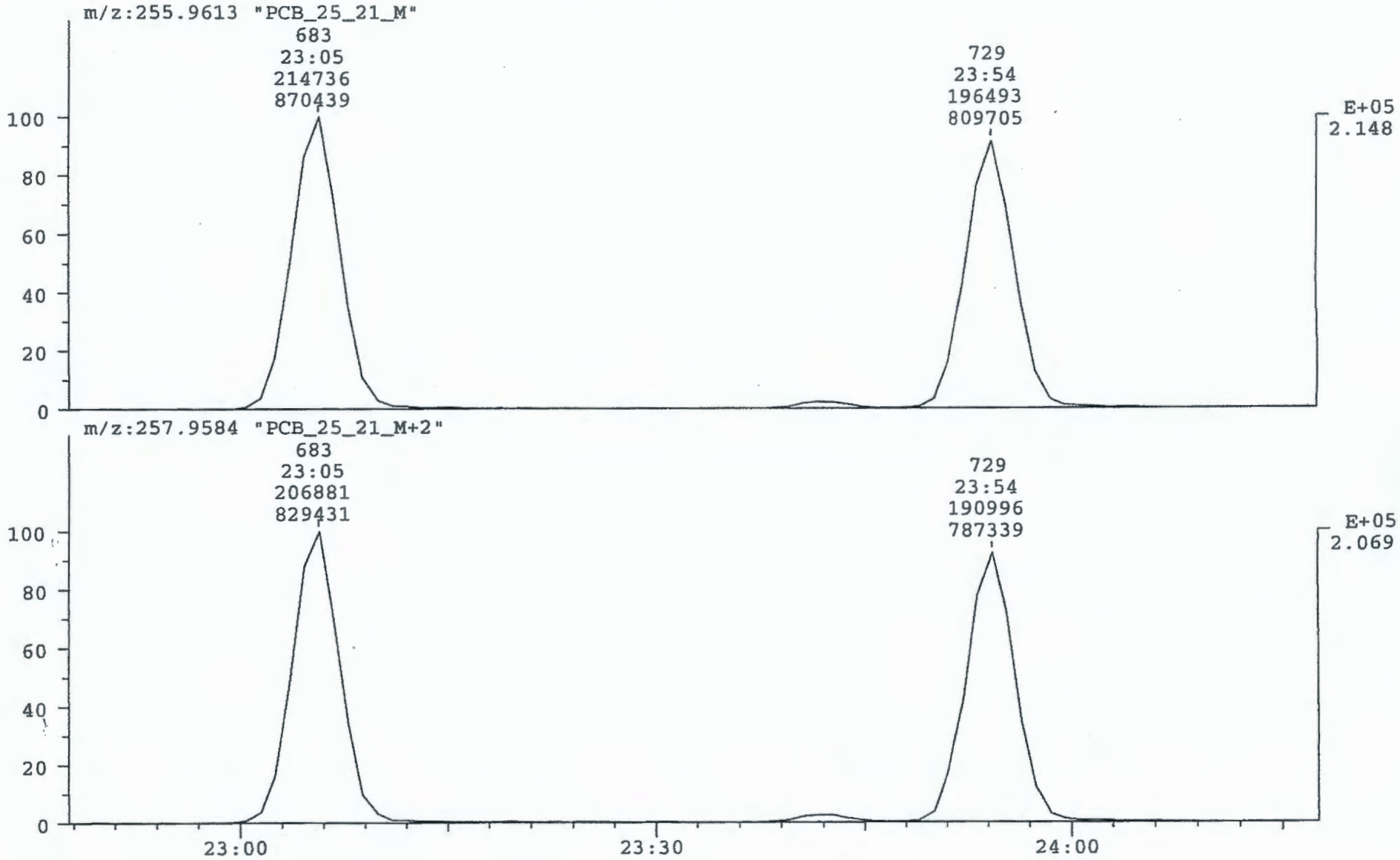
```
CHRO:  a07030743                                08-Mar-07   Elapse:  23:23.6      700
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   675 > 740             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



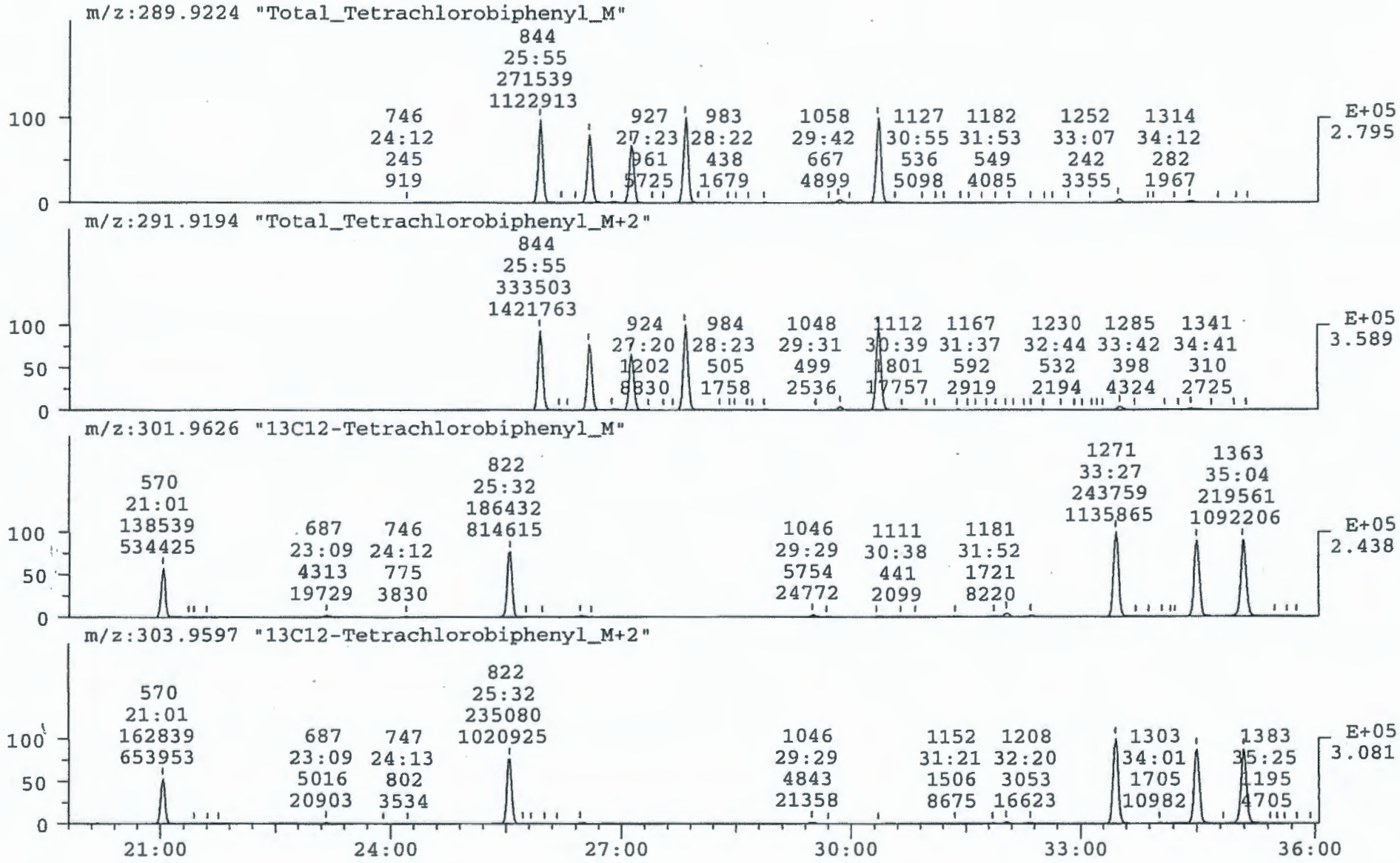
```
CHRO:  a07030743                                08-Mar-07   Elapse:  27:45.8      948
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   923 > 973             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



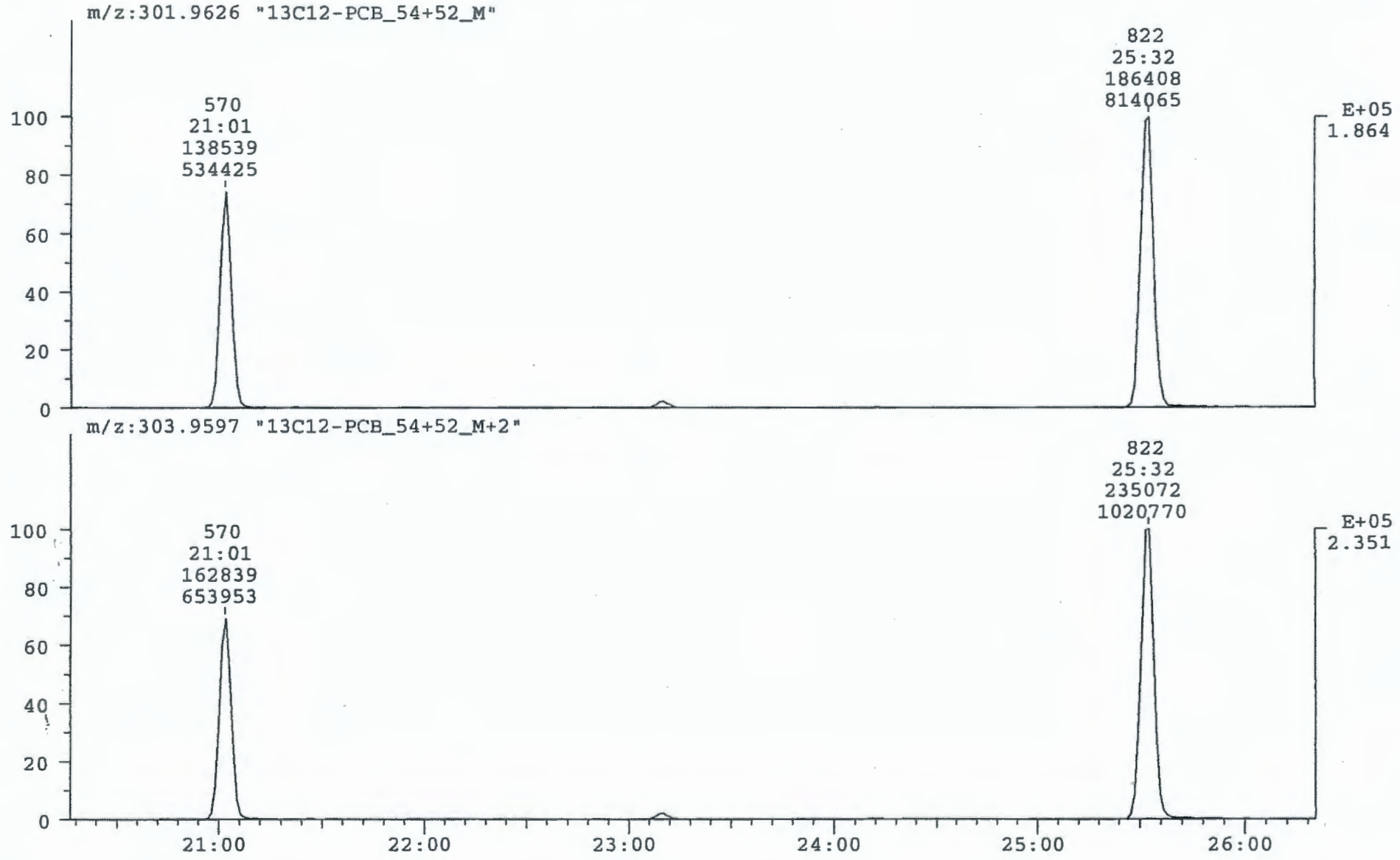
CHRO: a07030743 08-Mar-07 Elapse: 23:40.5 716
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 666 > 751 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



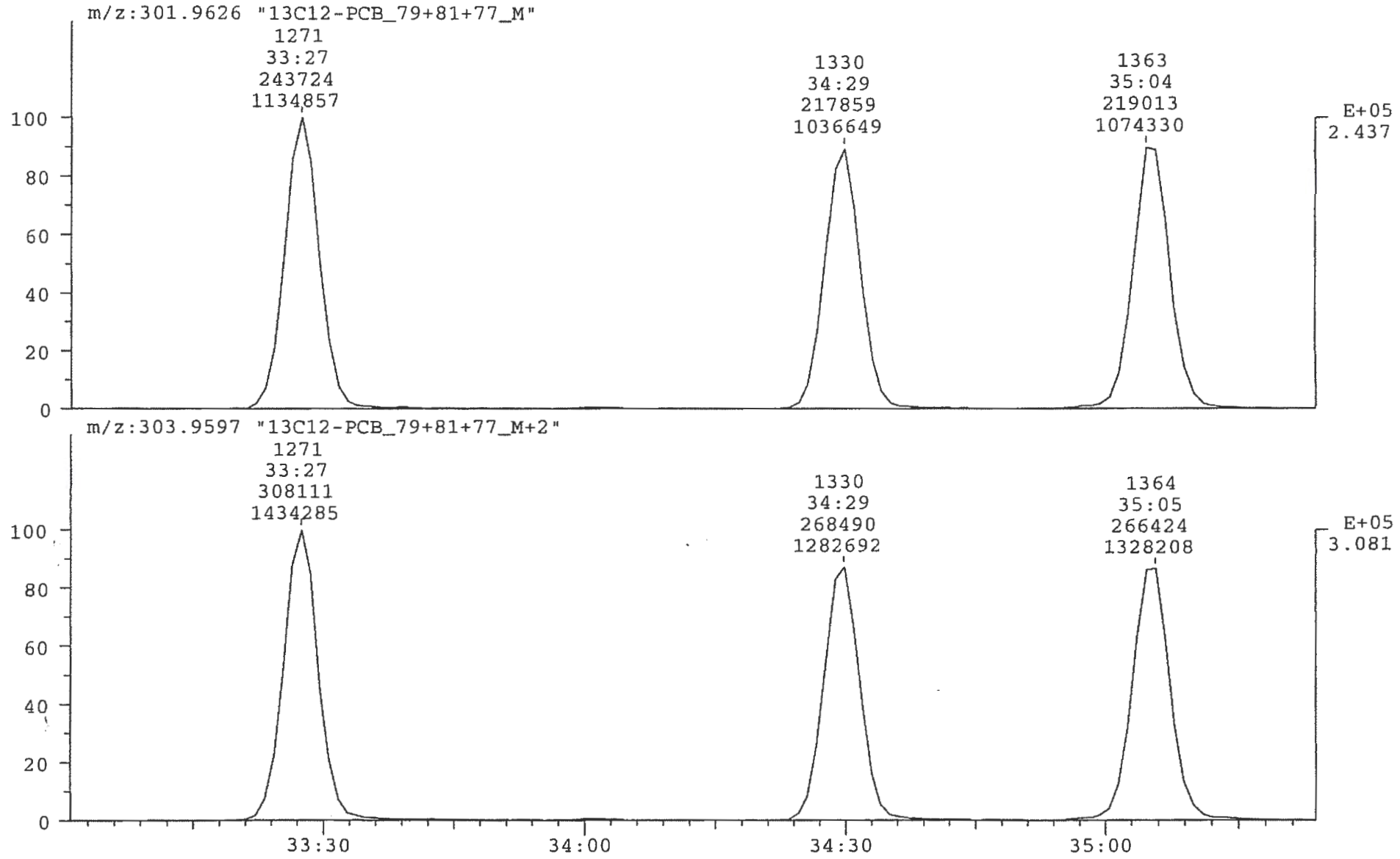
CHRO: a07030743 08-Mar-07 Elapse: 27:55.4 957
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 500 > 1418 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



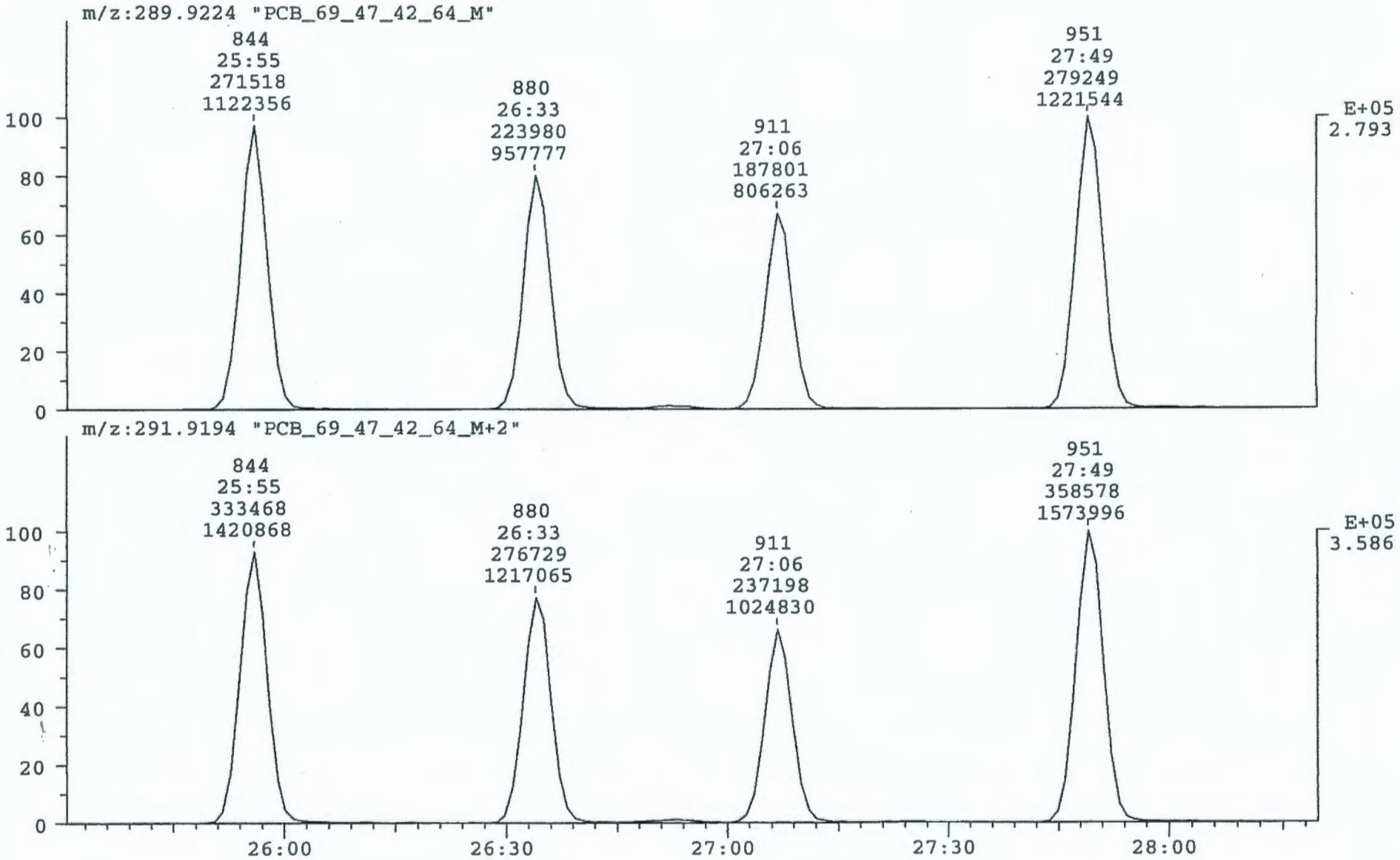
```
CHRO:  a07030743                                08-Mar-07   Elapse:  23:20.4      697
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   527 > 867             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



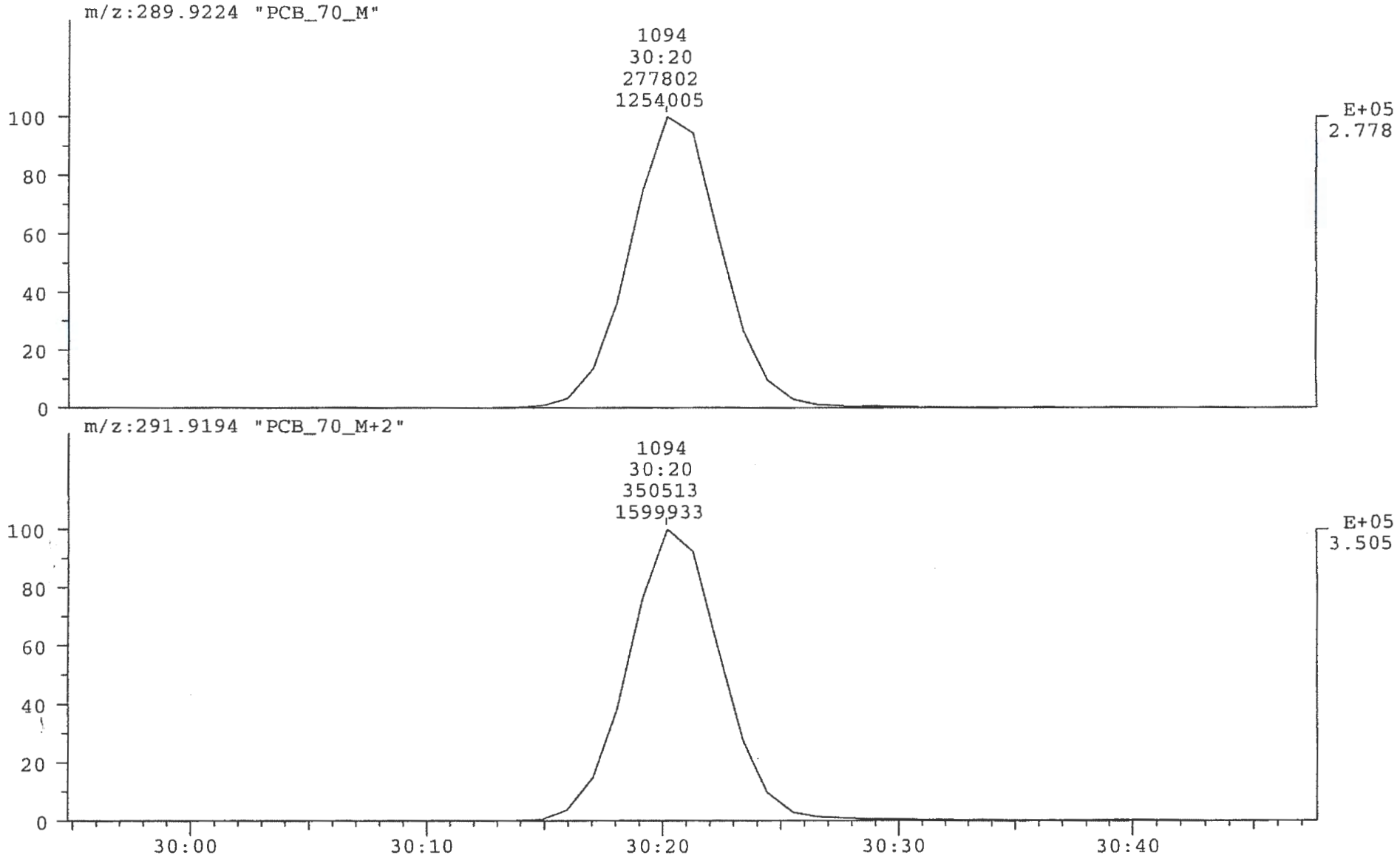
```
CHRO:  a07030743                                08-Mar-07   Elapse:  34:14      1316
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1246 > 1381           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



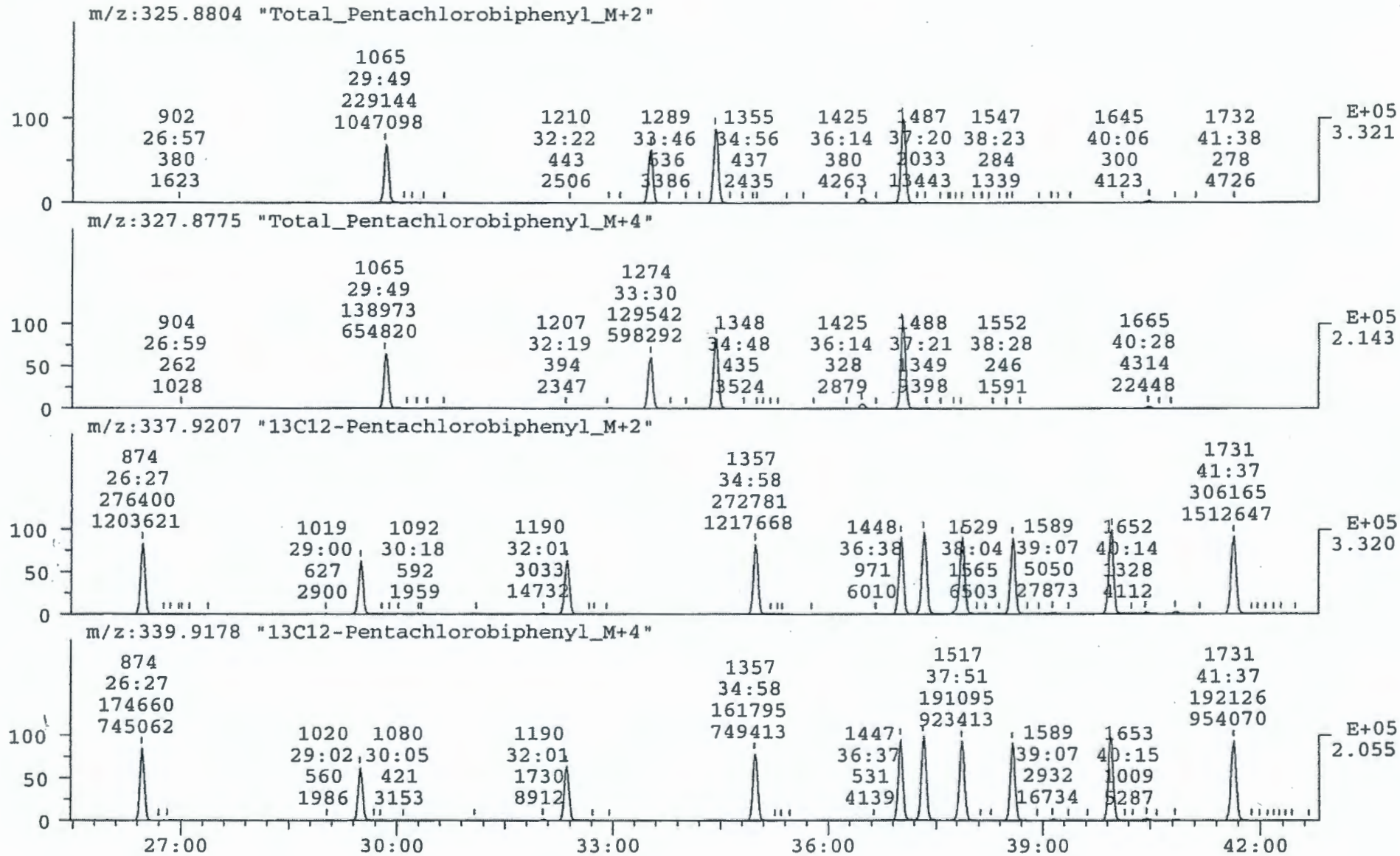
```
CHRO:  a07030743                                08-Mar-07   Elapse:  26:55.1      900
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33    2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   820 > 980             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



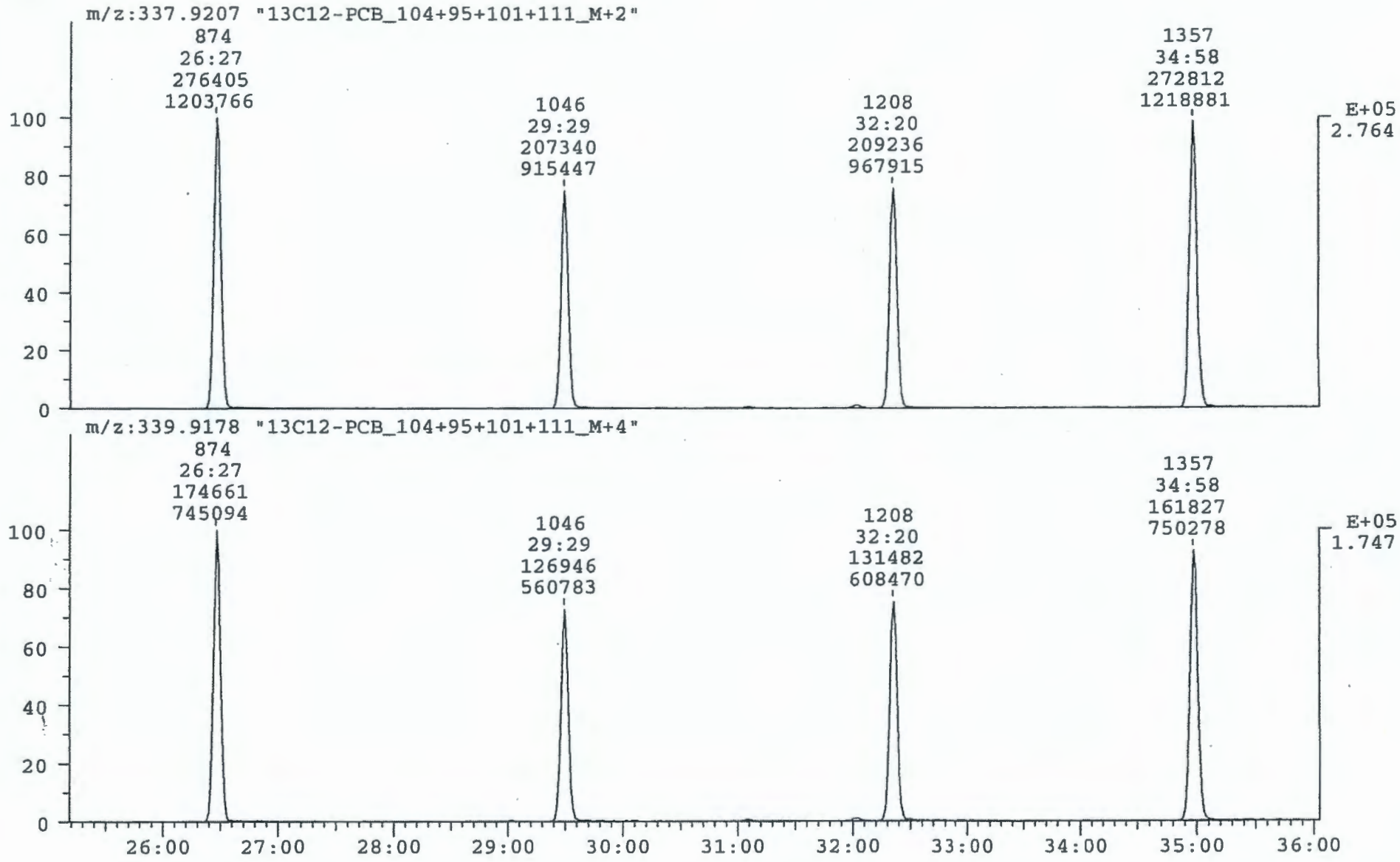
```
CHRO:  a07030743                                08-Mar-07   Elapse:  30:21      1095
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1070 > 1120           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



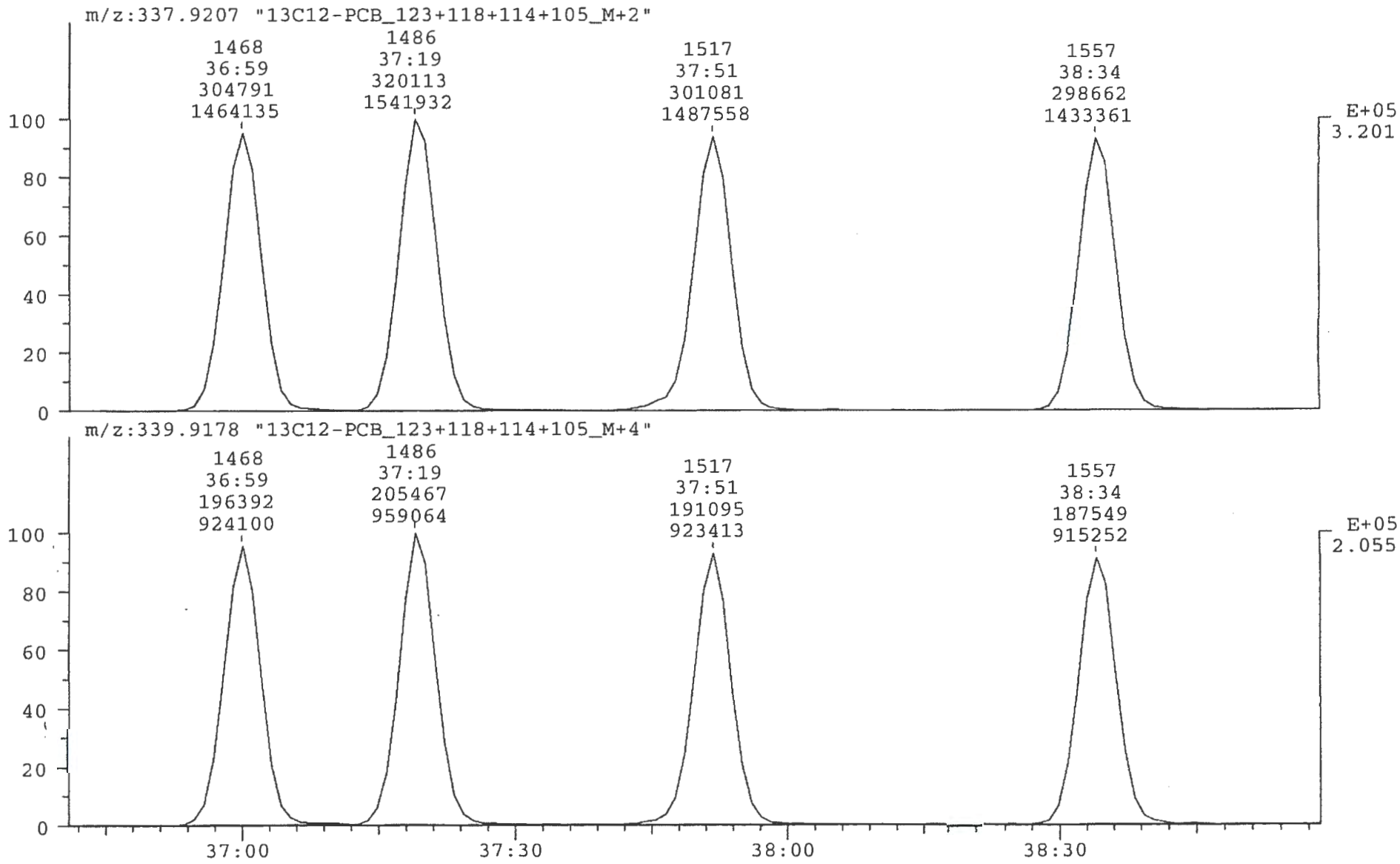
CHRO: a07030743 08-Mar-07 Elapse: 34:07 1309
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 818 > 1797 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



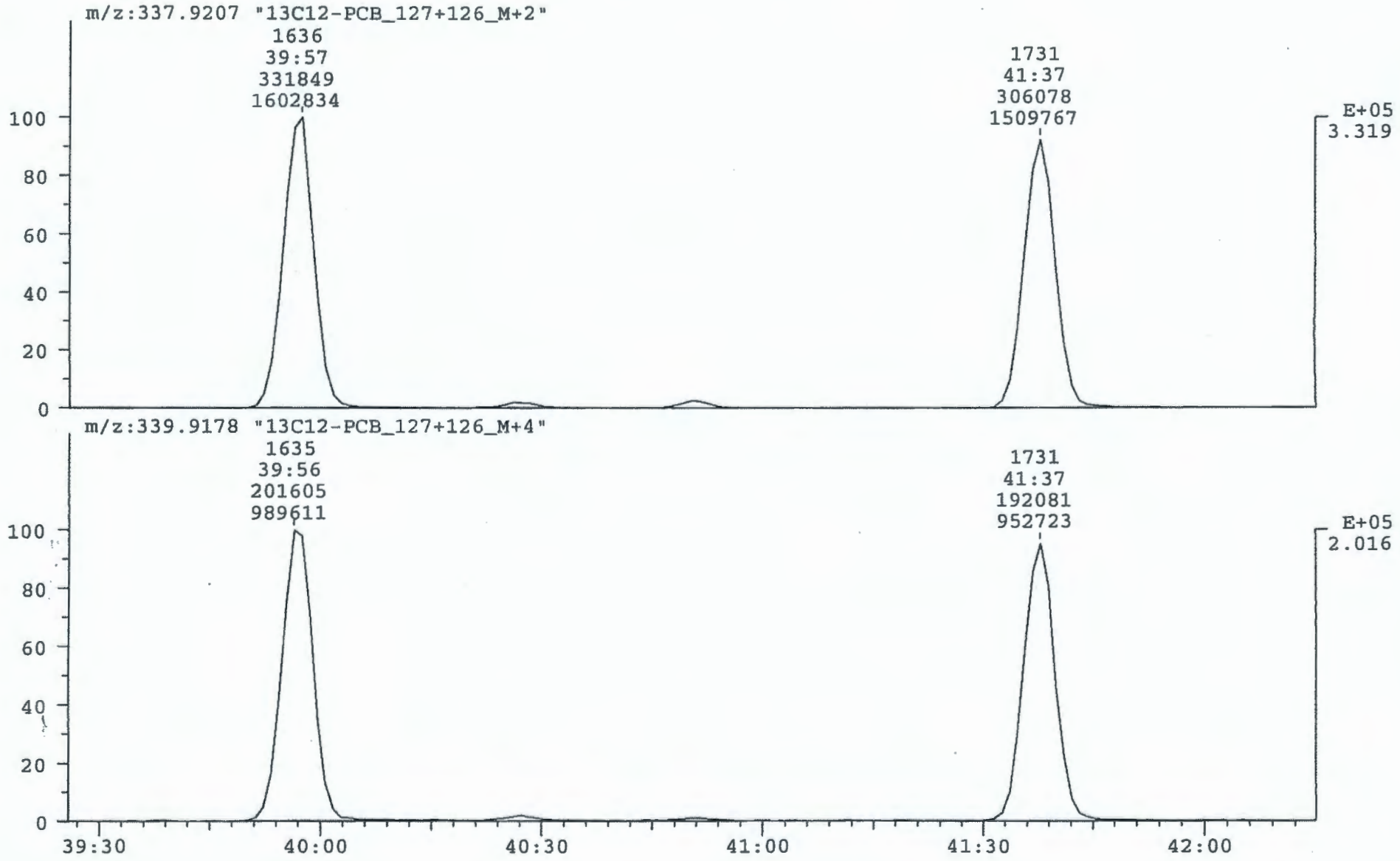
CHRO: a07030743 08-Mar-07 Elapse: 30:37 1110
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 802 > 1418 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



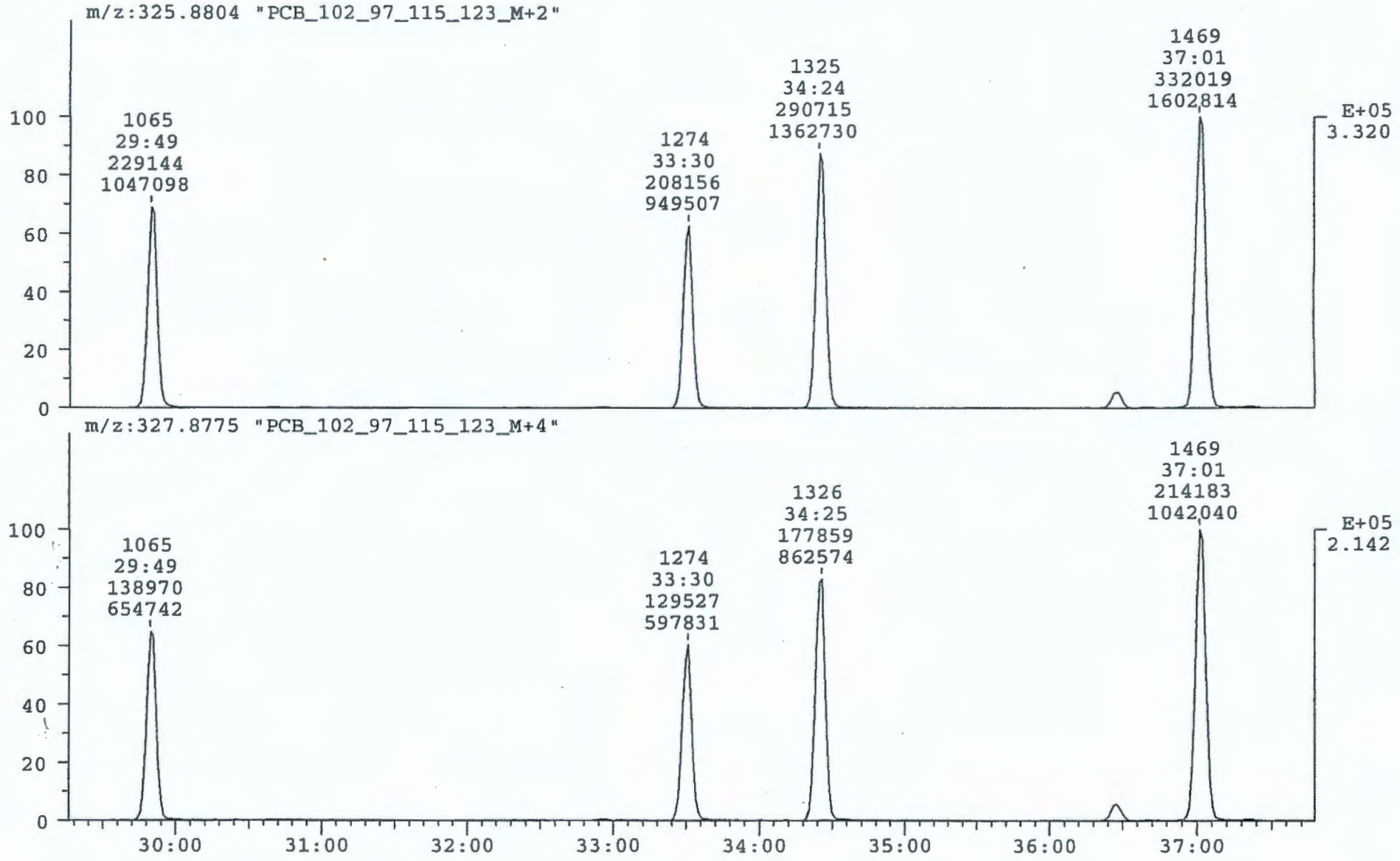
```
CHRO:  a07030743                                08-Mar-07   Elapse:  37:49      1515
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1450 > 1580           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



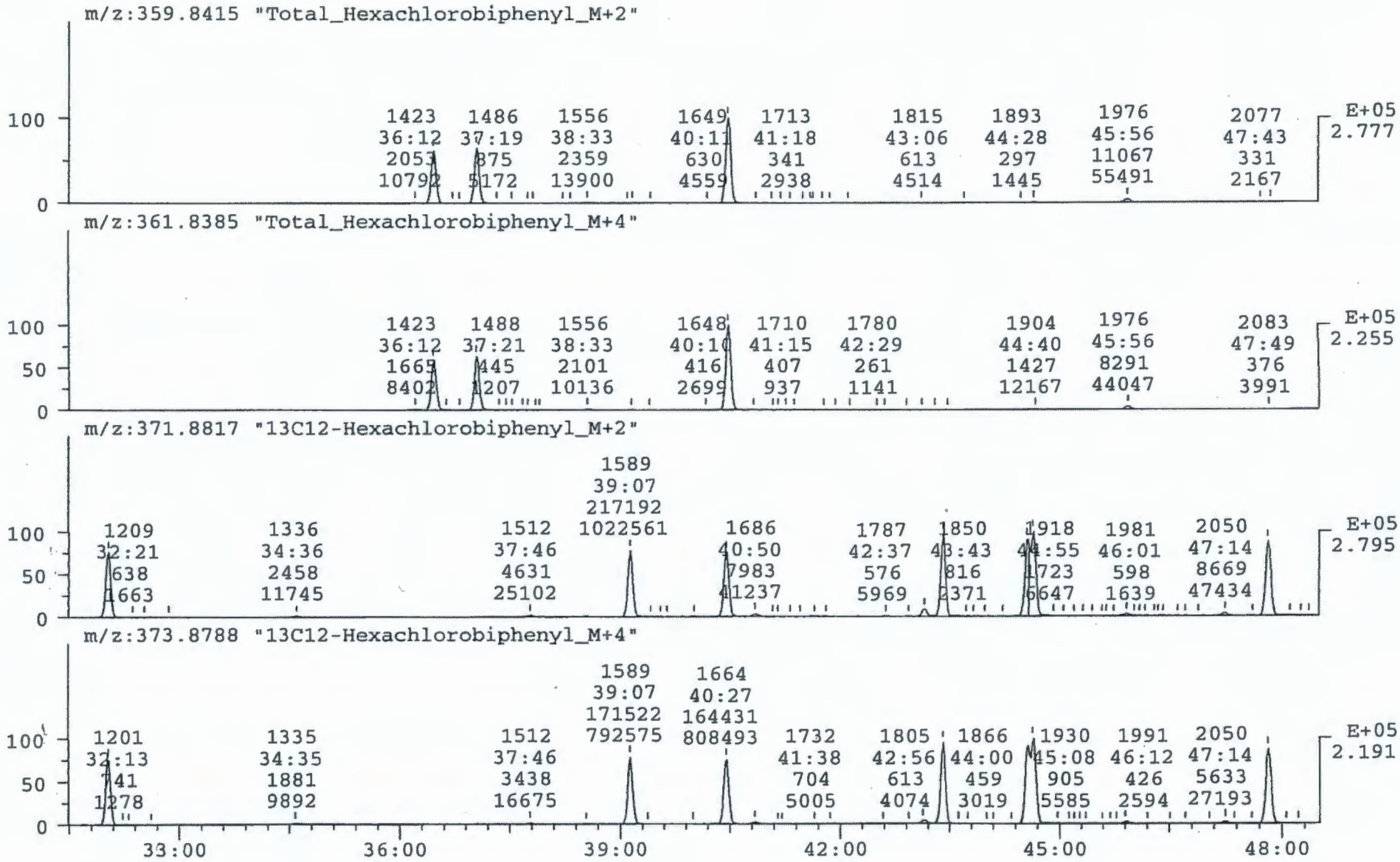
```
CHRO:  a07030743                                08-Mar-07   Elapse:  40:50      1686
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1606 > 1766           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



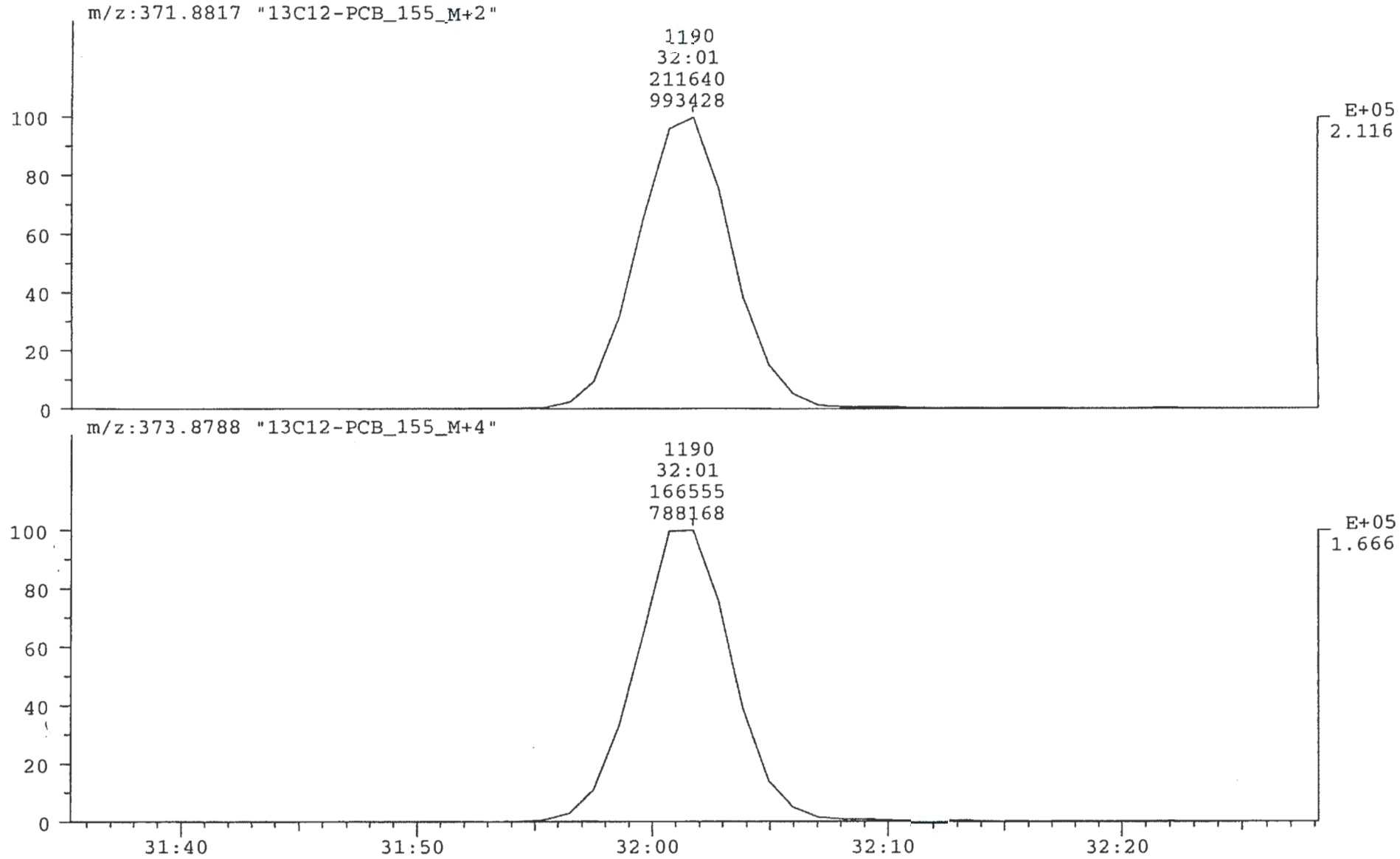
```
CHRO:  a07030743                                08-Mar-07  Elapse:  33:29      1273
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                           Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville               Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1033 > 1513          Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```



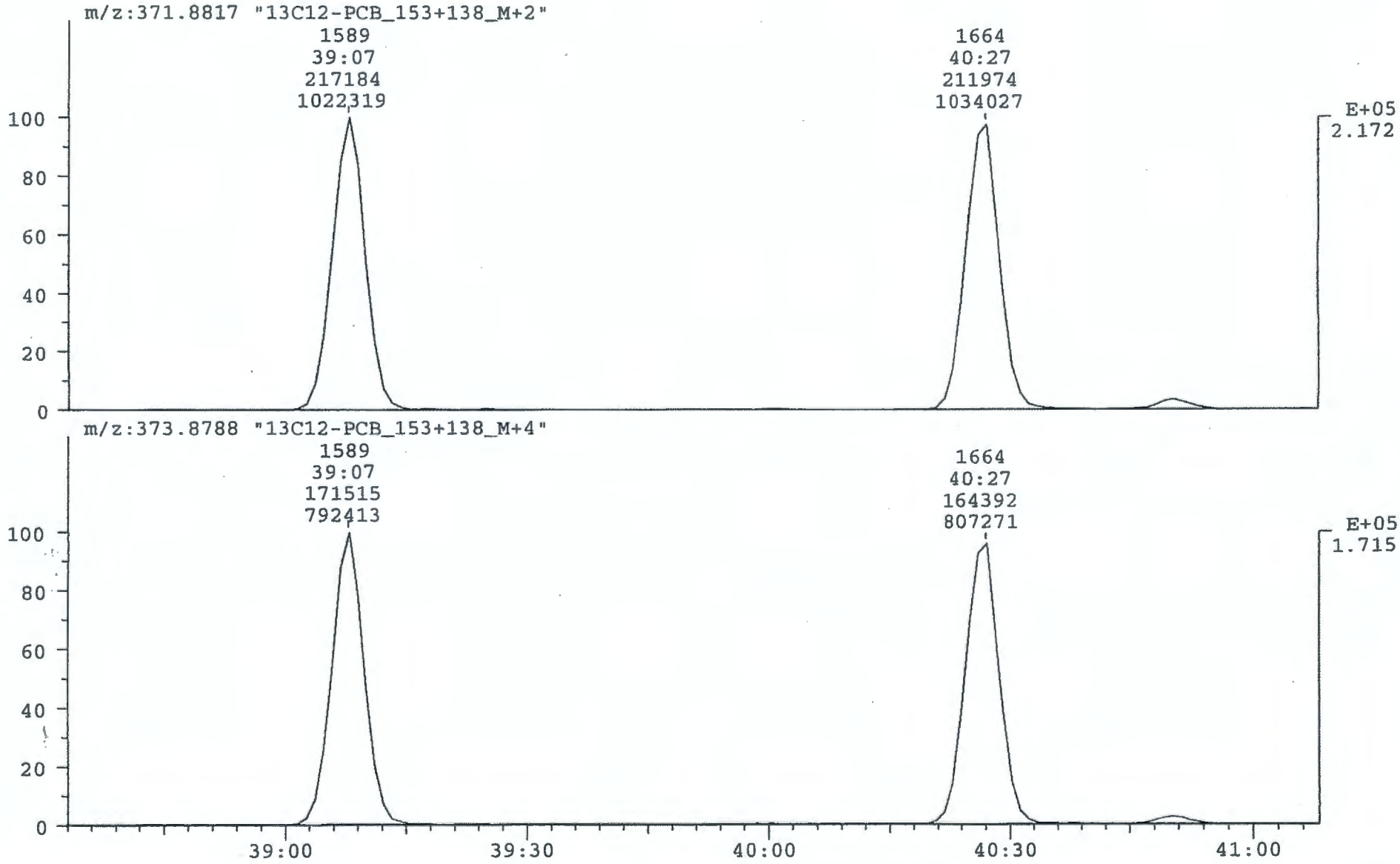
```
CHRO:  a07030743                                08-Mar-07   Elapse:  39:58      1637
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1159 > 2121           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



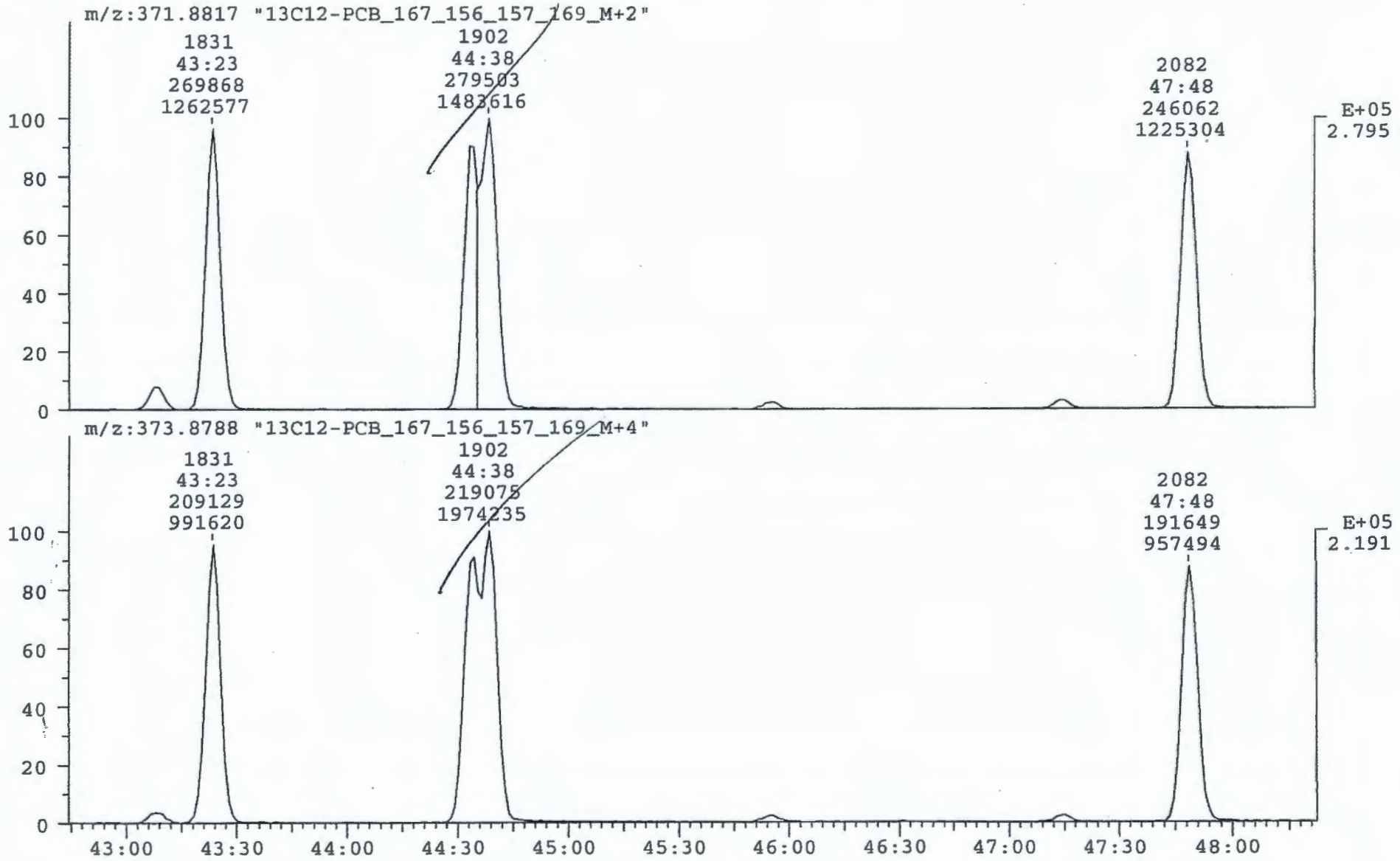
```
CHRO:  a07030743                                08-Mar-07   Elapse:  32:01      1190
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1165 > 1215           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



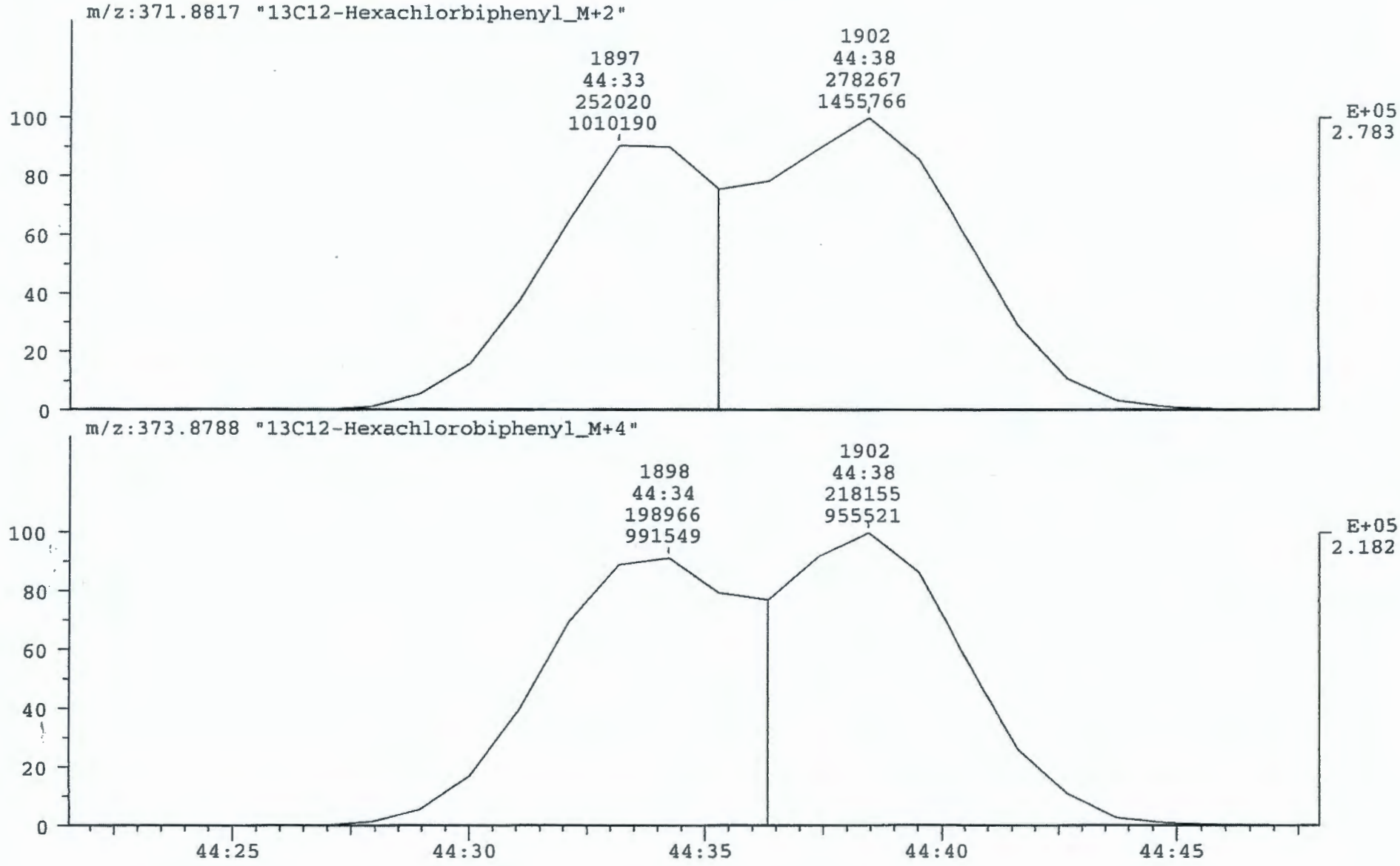
CHRO: a07030743 08-Mar-07 Elapse: 39:50 1629
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1556 > 1703 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



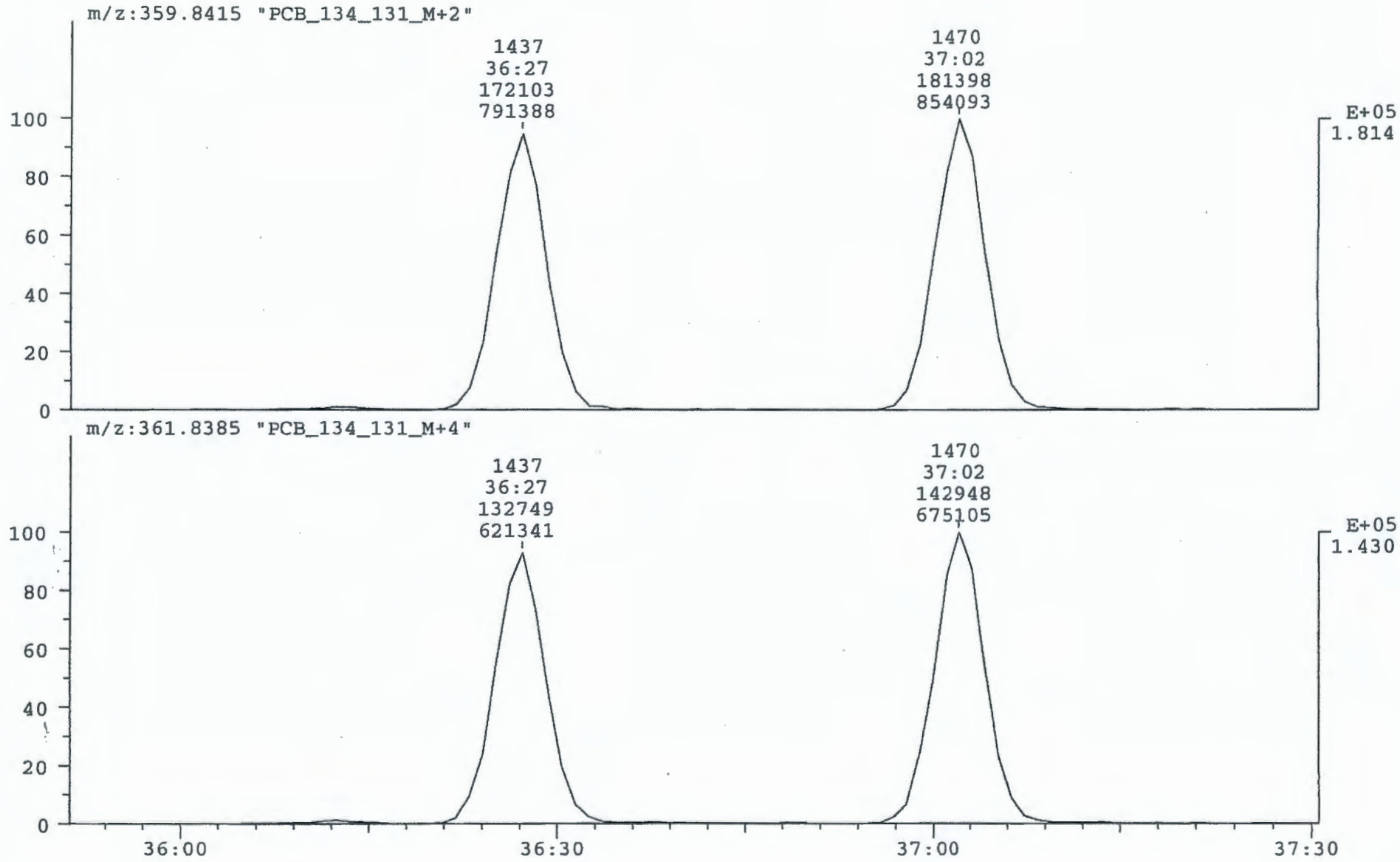
CHRO: a07030743 08-Mar-07 Elapse: 45:38 1959
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1794 > 2114 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



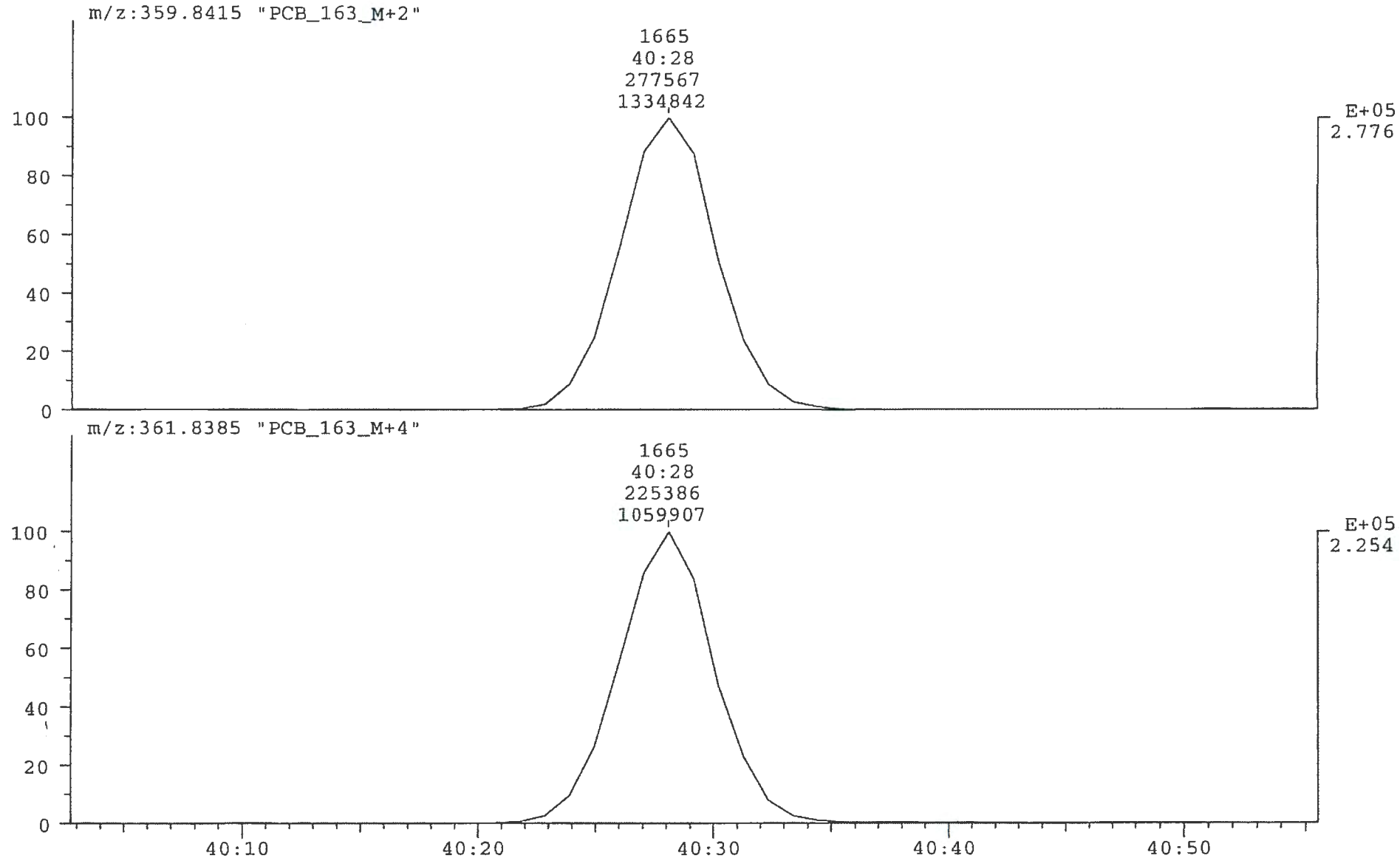
CHRO: a07030743 08-Mar-07 Elapse: 56:12 2555
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1886 > 1911 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 2 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030743                                08-Mar-07  Elapse:  37:04      1472
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1407 > 1497         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```

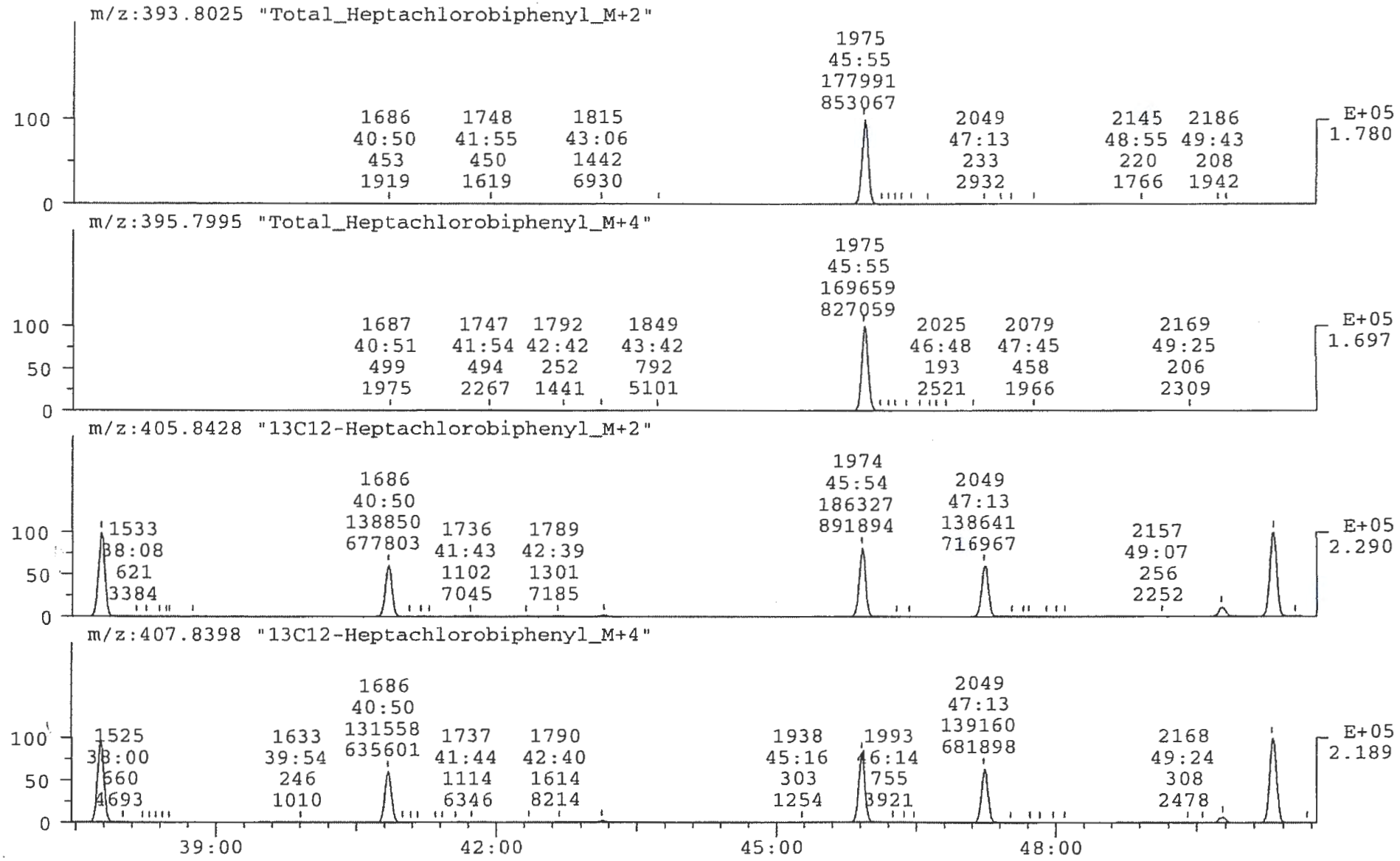


```
CHRO:  a07030743                                08-Mar-07  Elapse:  40:29      1666
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1641 > 1691         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3               Label :  -3, 3.0
Disp:  Height  Area
```

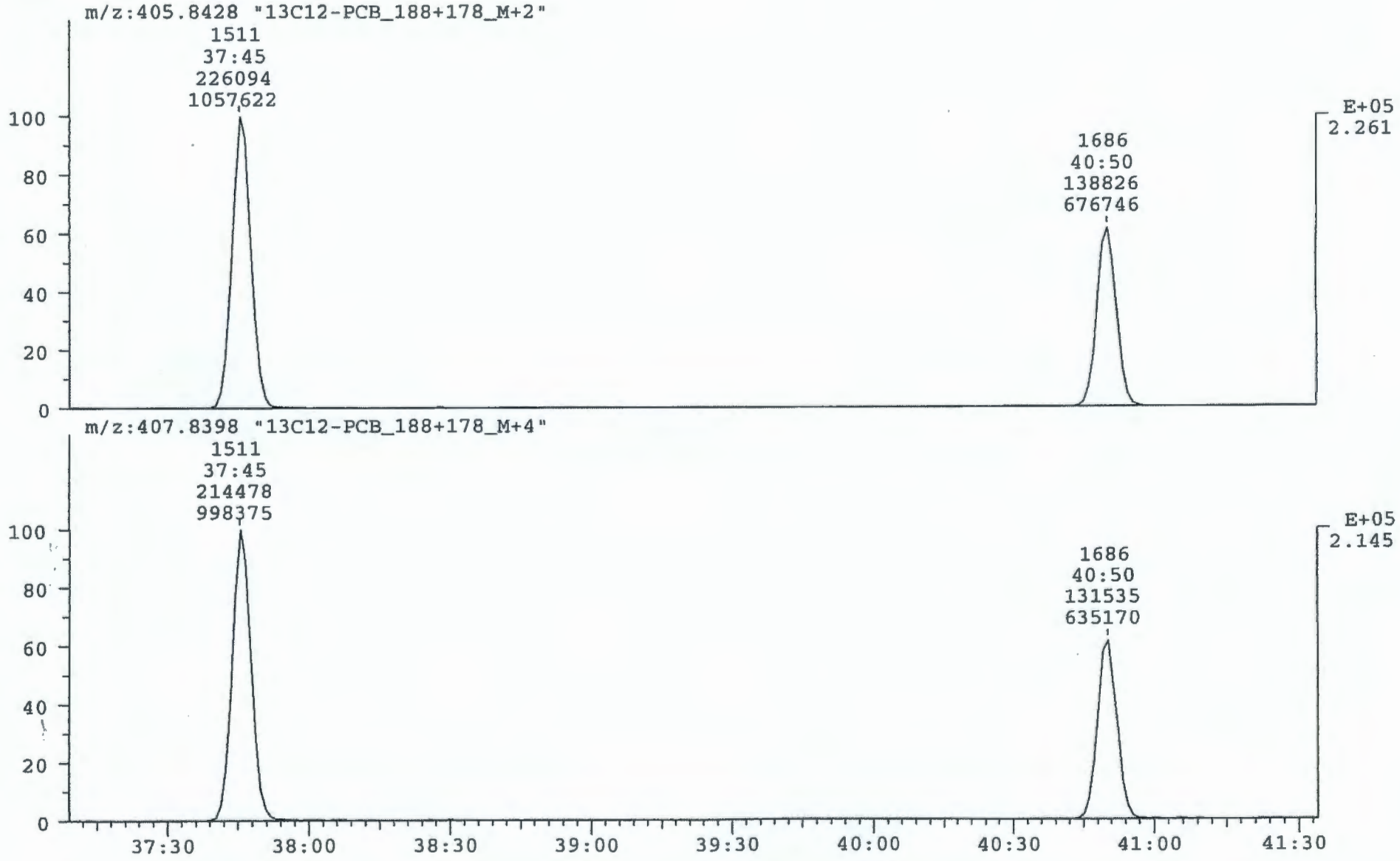


2464

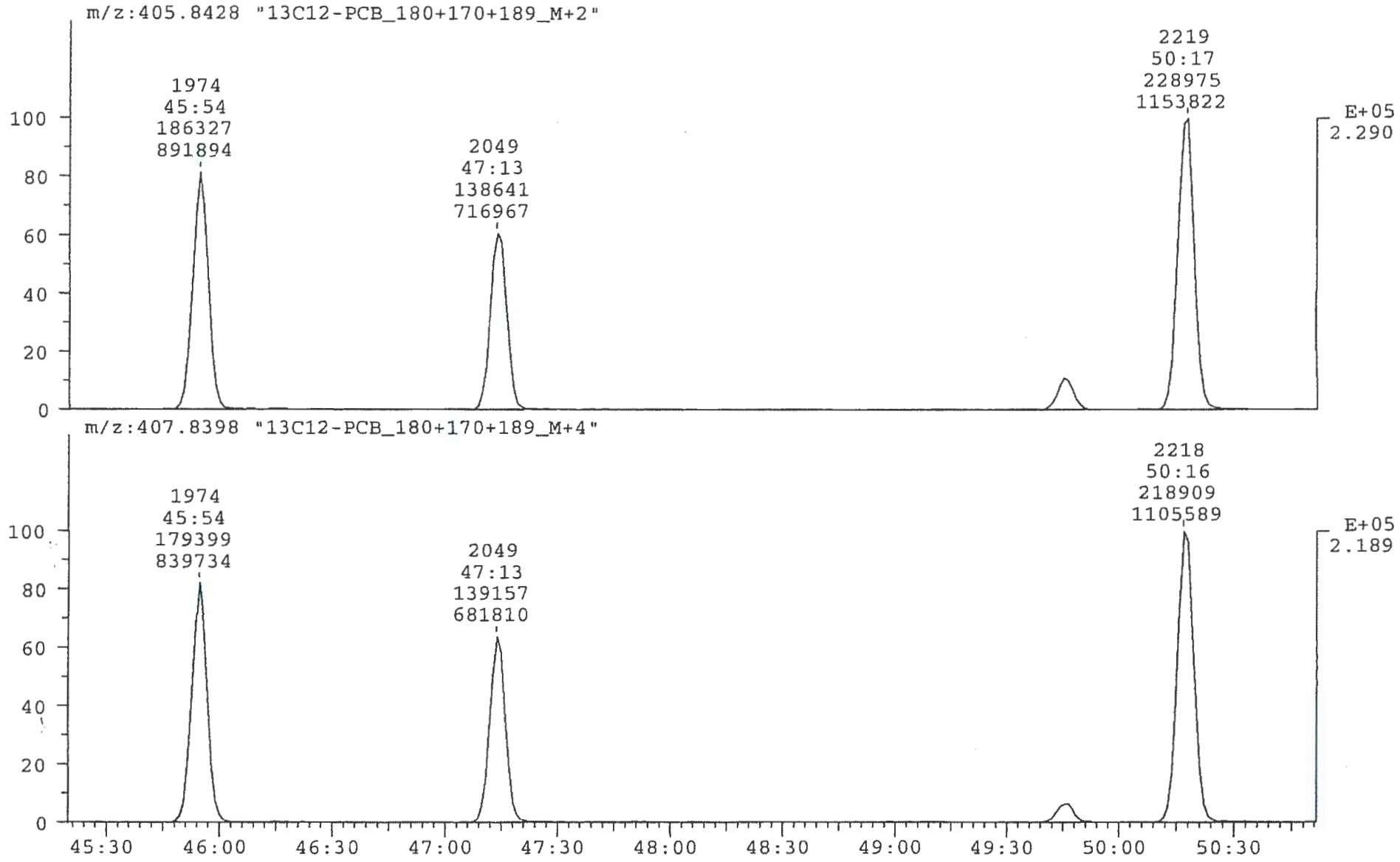
```
CHRO:  a07030743                                08-Mar-07   Elapse:  44:05      1871
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1494 > 2245           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



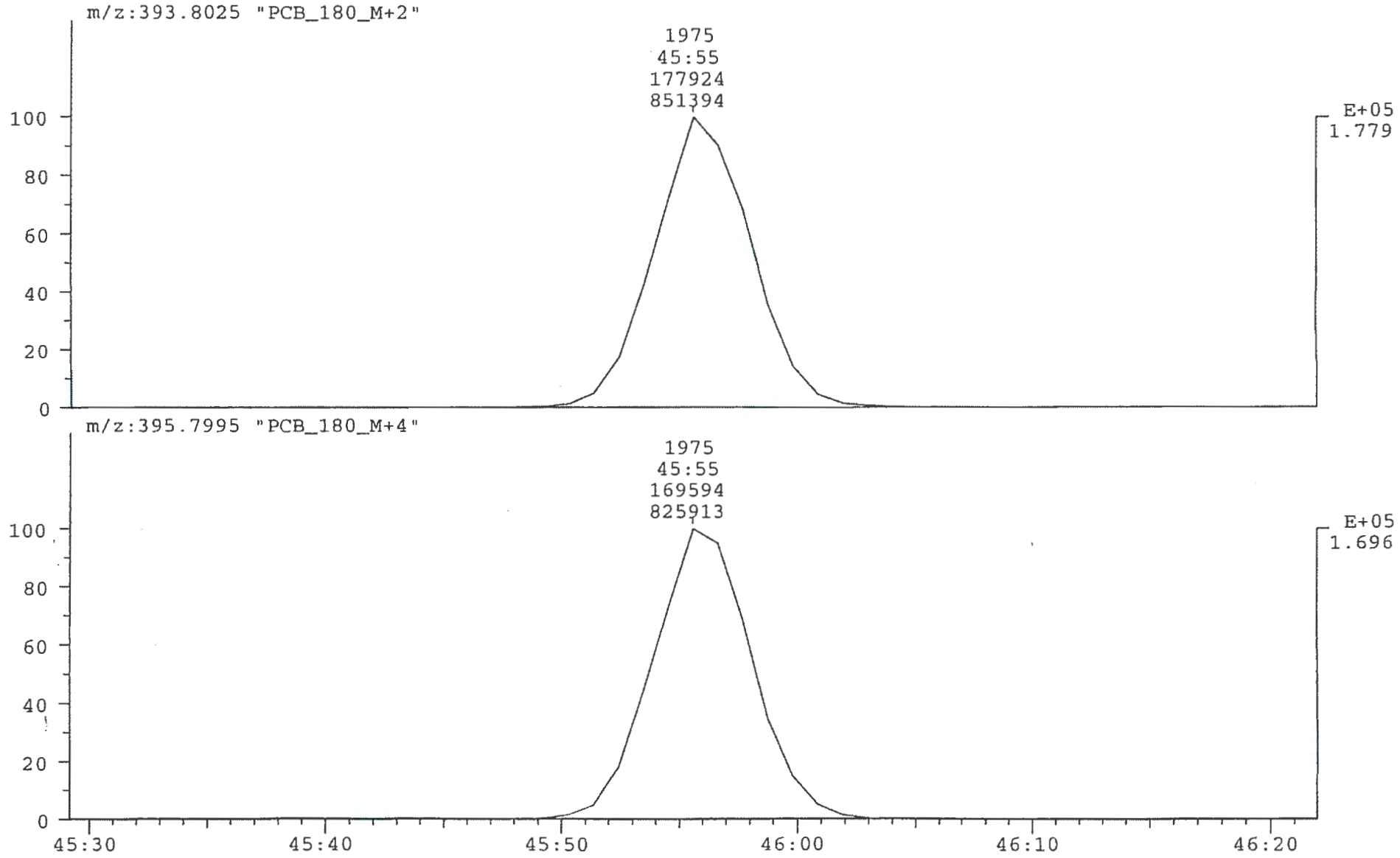
```
CHRO:  a07030743                                08-Mar-07  Elapse:  39:20      1601
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1477 > 1727         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



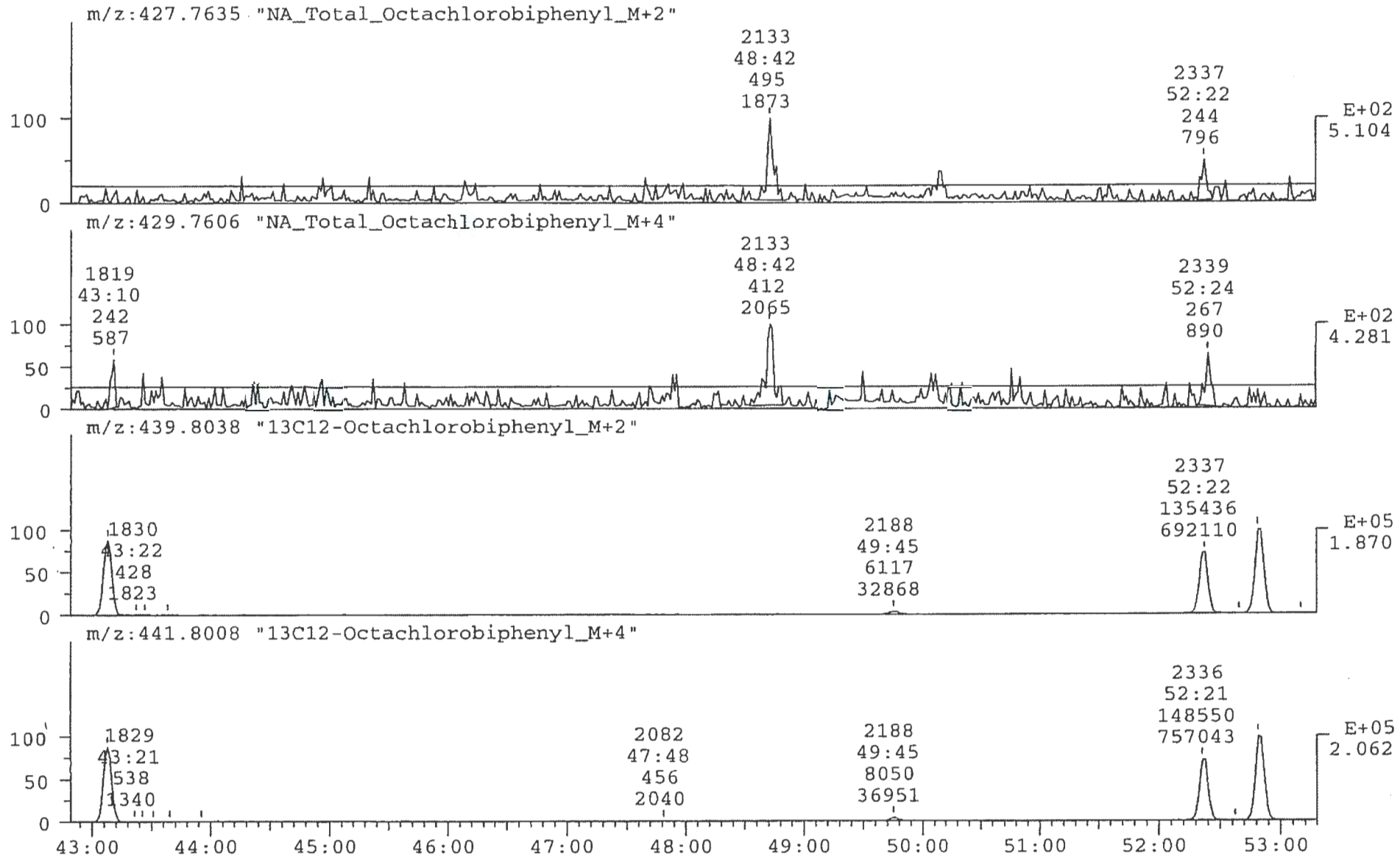
```
CHRO:  a07030743                                08-Mar-07  Elapse:  48:08      2101
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1941 > 2251         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



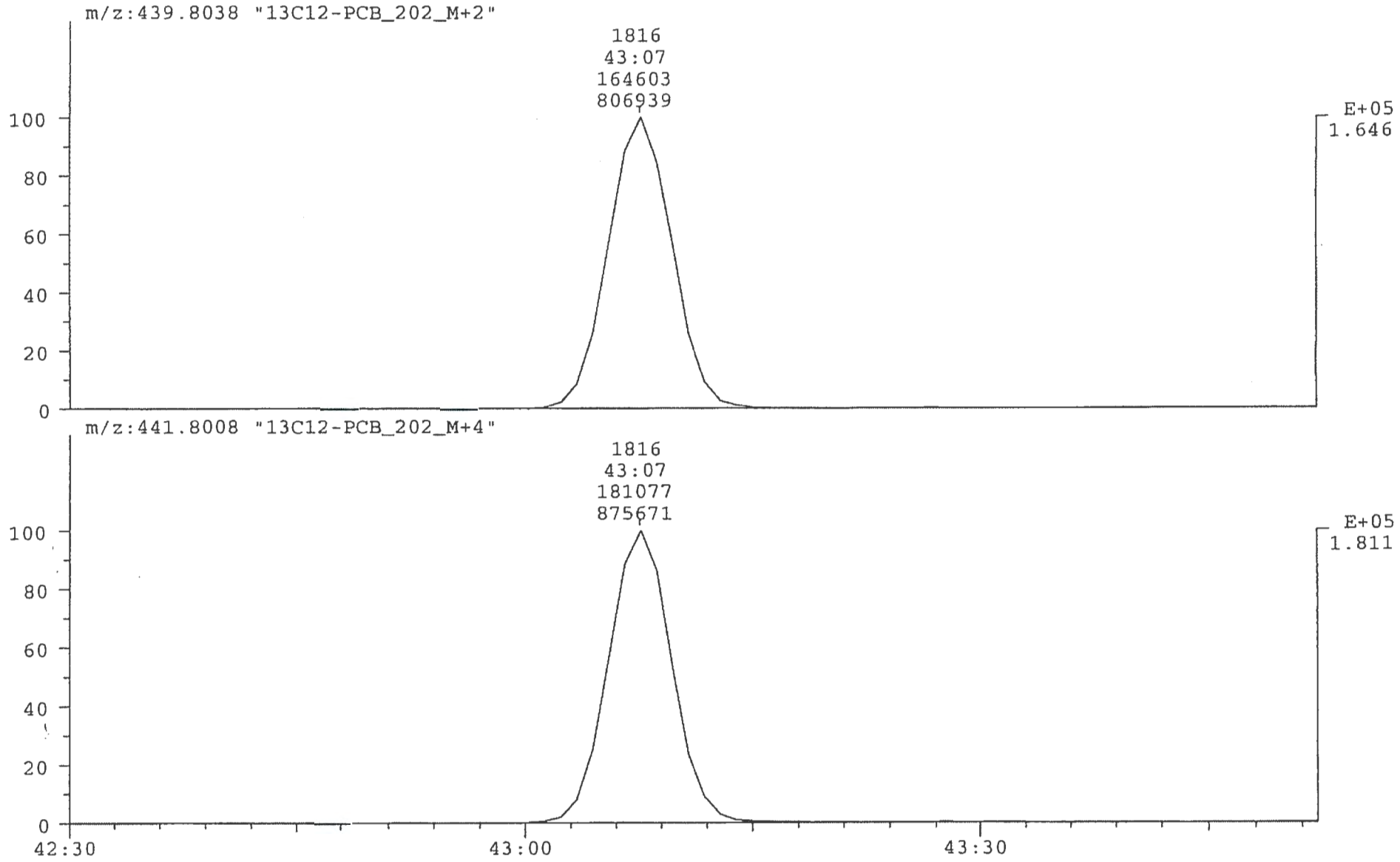
```
CHRO:  a07030743                              08-Mar-07   Elapse:  45:55      1975
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial   6
Peak:  100.00  ppm      Label wndw:   1950 > 2000         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030743 08-Mar-07 Elapse: 48:03 2096
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 1798 > 2390 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

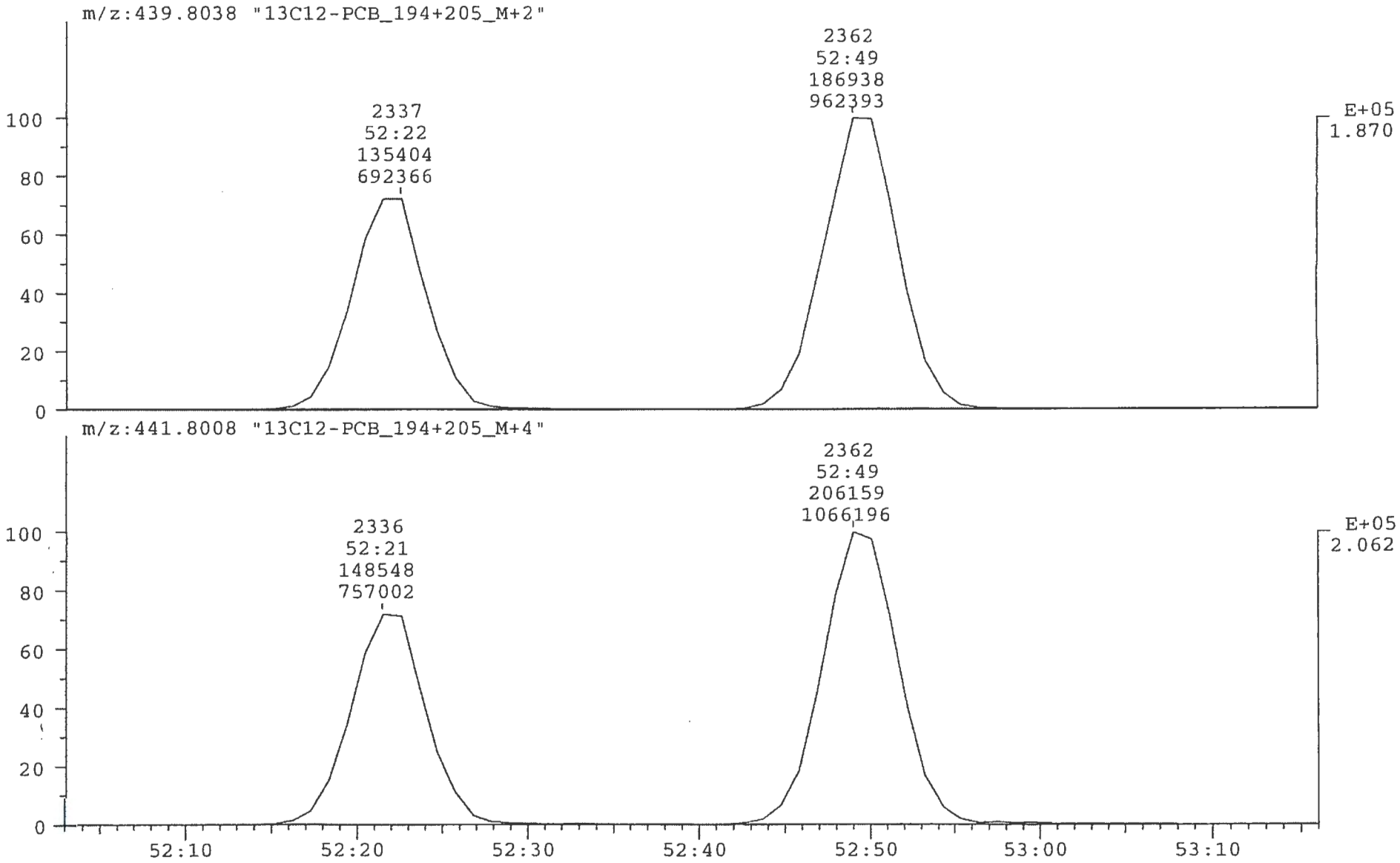


```
CHRO:  a07030743                                08-Mar-07   Elapse:  43:07      1816
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1                 Start :  06:25:33   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   1780 > 1858           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



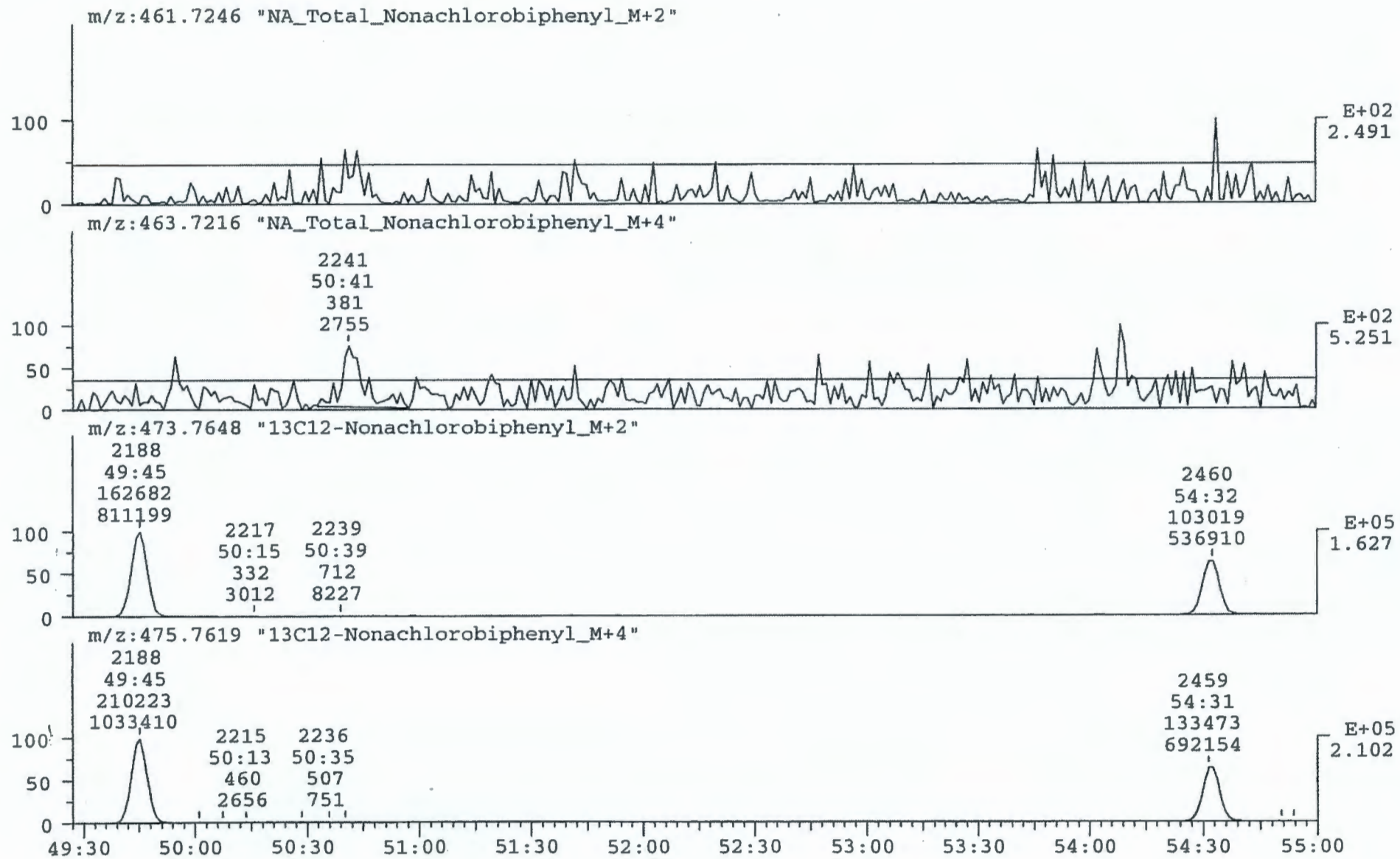
2470

CHRO: a07030743 08-Mar-07 Elapse: 52:39 2353
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2318 > 2388 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

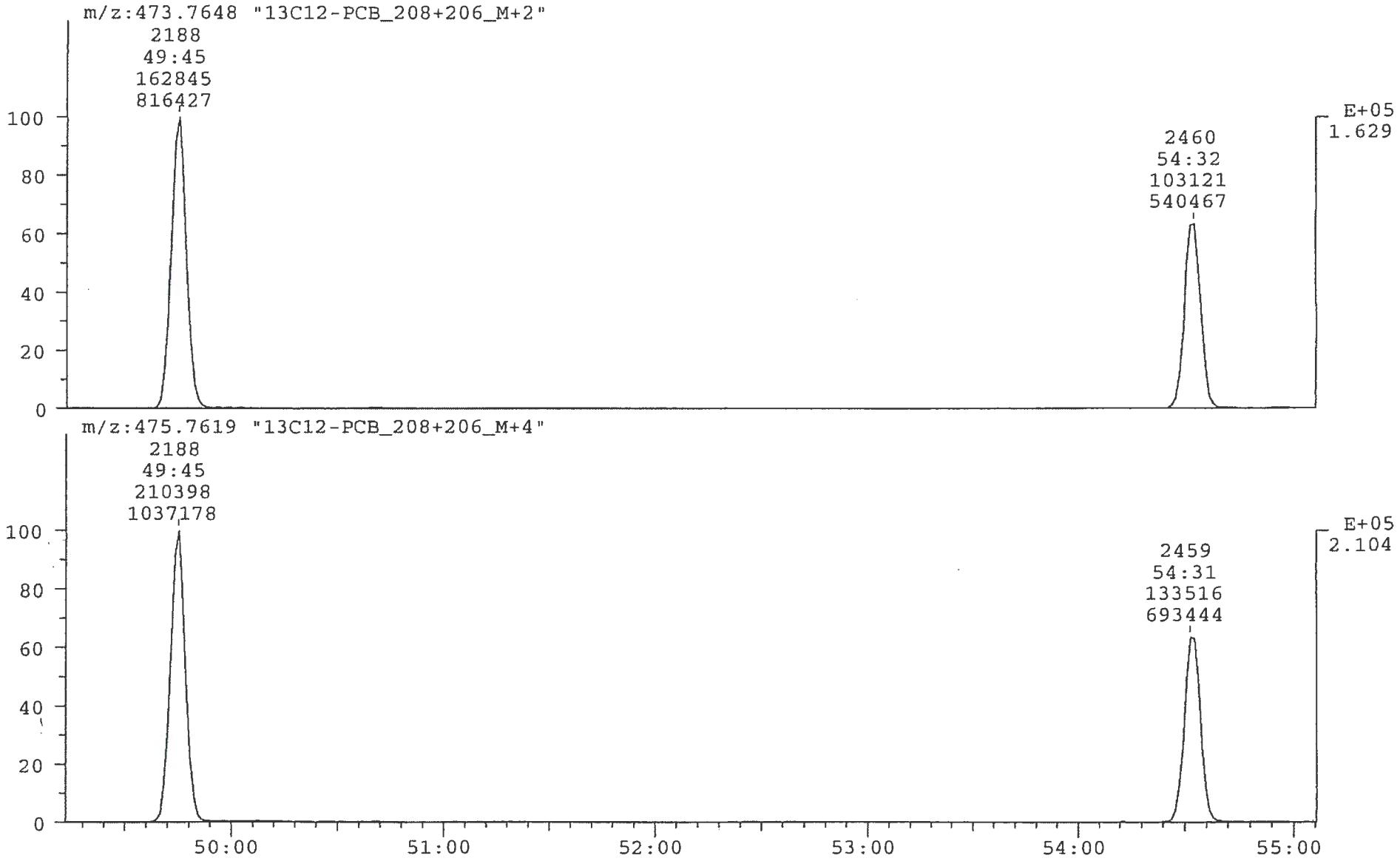


24 TL

CHRO: a07030743 08-Mar-07 Elapse: 52:13 2328
Samp: Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1 Start : 06:25:33 2601
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix4/Run3
Oper: DCG Client: STL Knoxville Inlet : GC Vial 6
Peak: 100.00 ppm Label wndw: 2171 > 2486 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area

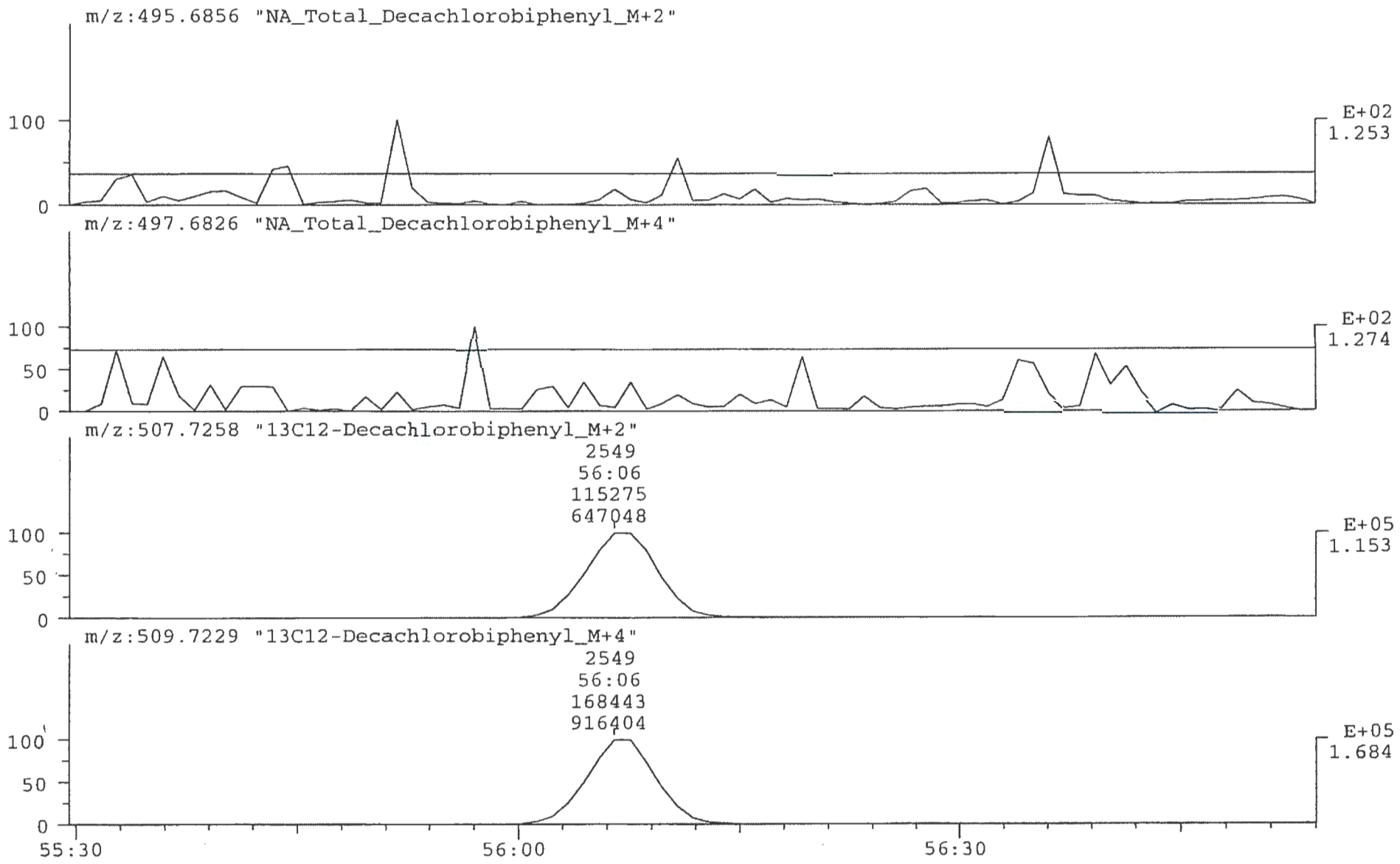


```
CHRO:  a07030743                              08-Mar-07   Elapse:  52:12      2327
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2162 > 2492         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



2473

```
CHRO:  a07030743                              08-Mar-07   Elapse:  56:11      2554
Samp:  Vial 6 WO=2990:75Mix4 Meth=IE3 Dil=1               Start :  06:25:33   2601
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                          Study :  1668 RT Mix4/Run3
Oper:  DCG            Client:  STL Knoxville              Inlet :  GC     Vial  6
Peak:  100.00  ppm      Label wndw:   2514 > 2594         Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3              Label :  -3, 3.0
Disp:  Height  Area
```



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

ICL Version: 10.710
File name: a07030743
Study: 1668 RT Mix4/Run3
Sample: WO=2990:75Mix4 Meth=IE3 Dil=1
Amount: 0.00
Volume: 0.00
Operator: DCG
Client: STL Knoxville
Comments: Inst=m1d/137819-2 Batch=20070307s1 Ccal=20050801i
Injected volume: 2.00
Sample from Vial 6
Analysis will stop when MID run finishes
Tune file name: tune2
Mcal file name: mcal1.cal
File 14 of list 070307
ICL procedure: sleep7x
MID procedure: epal668n

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

Mid Set Up Parameter:

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

Mid Time Windows:

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

Mid Masses:
Window # 1

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

Window # 2

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

Window # 3

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

Window # 4

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

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

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

GC descriptor : epa1668n

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

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

Column : Constant Flow 1.0 ml
Stabilize time 0.5 minutes

ICL Parameters

BCORRL	0.0150	BCORRS	0.0110	BCURR	16383.0000
BDEV	16383.0000	BFM	2.0000	BLM	1032.2528
BMASS	180.4888	BQUAD	0.0000	CAPIL	0.0000
CAPTEMP	359.9988	CAPTSET	200.0000	CCURR	3.9294
CORONA	0.0000	CYCLE	0.0000	DELAY	0.0000
DITEMP	0.1954	DITSET	0.0000	DRAW	-18.7750
DRAWC	1.0000	DRAWS	0.0050	ECORR	0.9999
ECURR	1.0000	EDAC	7969177.0000	EDACG	0.9999
EDACR	23.0000	EDACZ	1160.0000	ELEN	67.4250
EMULT	1.5500	ENS	180.0000	ERATIO	1.0000
ESA	763.8000	ESICUR	10.0011	ESIPAR	0.0000
EXS	144.0000	FDMA	18000000.0000	FLENS	1.0000
FM	20.0000	FMII	50.0000	FQUAD	0.0000
FREQ	300.4808	FSLOPE	54000000.0000	FVANAL	265.0000
FVINLET	258.0000	FVSRC	843.0000	FWIN	0.7000
GCTC	202.0000	GCTI	270.0000	GCTL	280.0000
HACCU	208.0000	HCURR	0.8725	HVANAL	1292.0000
HVSRC	0.0000	ICAL0	0.0011	ICAL1	0.4030
ICAL2	0.5865	IONEN	4771.6680	IST	271.3713
ISTC	0.0000	ISTCKP	5.0000	ISTCTD	1.0000
ISTCTN	2.0000	ISTCTS	60.0000	ISTCTV	3.0000
ISTS	270.0000	LENS	1800.0000	LENSS	21.0000
LKM	404.9760	LM	800.0000	LMASS	180.4888
LMII	500.0000	MASS	180.4888	MDAC	2346712.5794

MDACR	23.0000	MRANGE	1032.2528	MSFM	2.0000
MSLM	3790.0000	NPEAK	1.0000	NSAM	100.0000
NSCAN	2607.0000	NSMAX	8.0000	NSMIN	2.0000
OCT	-2.0000	PSAM	10.0000	PUSHER	-10.0000
RDRAW	0.0000	RDRAWC	0.0000	RECURR	0.0000
RELEN	0.0000	RES	10314.6723	RFAMP	799.9987
RFCUR	100.0110	RPUSHER	0.0000	RWIN	2.0000
SACCU	3.0000	SCIDLE	1.0000	SHIELD	2918.0000
SHIELDS	0.0000	SHIGH	180.0000	SKIM	7.0000
SLOW	60.0000	SPRAY	8.0000	SS	3.0000
SW	0.0500	TANAL	420.7500	TCURR	0.7031
TD	1.0000	THRESH	5.0000	TIS	0.2000
TREF	150.0000	TS	1.6021	TSAM	200.0000
TSET	0.0000	TUBEL	0.0000	UOFS	5.0000
URATIO	2.1750	USERVAR	0.0000	VAPTEMP	599.9997
VAPTSET	400.0000	VMASS	180.4888	XLENS	2000.0000
XLENSS	-34.8000	YLENS	2600.0000	YLENSS	-24.8000

Scantype is electric
Sourcemode is EI POS

Analysis started at: 08-Mar-07 06:25:33.6

Autosampler has injected sample from vial 6
MID Time Window 1: Resolution is 7541
MID Time Window 2: Resolution is 7079
MID Time Window 3: Resolution is 7794
MID Time Window 4: Resolution is 9203
Analysis stopped at: 08-Mar-07 07:22:37.1 (run time 57.04 minutes)
Analysis stopped because MID run finished

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030751.	Prep Date		SDG No	
Analysis ID	96251	Prep Exp Date		Date Received	
Analysis Date	03/07/07 21:10	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0393	190.0363	188.0393	190.0363	2.66-3.60		
	Noise	00:00	00:00	0	158	140	63	56	1.13 *	/	
	PCB 1 (BZ)	12:14	00:00	0	1250340	402963	525799	167850	3.10	AVV/AVV	
	PCB 3 (BZ)	14:27	00:00	0	1244486	395716	426990	137091	3.14	ABV/ABV	
200					200.0795	202.0766	200.0795	202.0766	2.66-3.60		
	Noise	00:00	00:00	0	205	295	82	118	0.69 *	/	
	13C12-PCB 1	12:12	00:00	0	2361444	733215	983609	308530	3.22	AVV/AVV	
	13C12-PCB 3	14:26	00:00	0	2379066	730285	831569	254926	3.26	ABV/ABV	
222					222.0003	223.9974	222.0003	223.9974	1.33-1.79		
	Noise	00:00	00:00	0	233	383	93	153	0.61 *	/	
	PCB 4 (BZ)	14:44	00:00	0	547334	346720	181707	115698	1.58	AVV/AVV	
	PCB 15 (BZ)	20:43	00:00	0	988364	628402	251943	163643	1.57	AVV/AVV	
234					234.0406	236.0376	234.0406	236.0376	1.33-1.79		
	Noise	00:00	00:00	0	333	185	133	74	1.80 *	/	
	13C12-PCB 4	14:43	00:00	0	1027459	633815	343160	214698	1.62	AVV/ABV	
	13C12-PCB 9	16:40	00:00	0	1672446	1031268	485701	309127	1.62	AVV/AVV	
	13C12-PCB 8	17:33	00:00	0	1764070	1103462	494328	311978	1.60	AVV/AVV	
	13C12-PCB 15	20:42	00:00	0	1780257	1114591	457218	290782	1.60	AVV/ABV	
256					255.9613	257.9584	255.9613	257.9584	0.88-1.20		
	Noise	00:00	00:00	0	160	138	64	55	1.16	/	
	PCB 19 (BZ)	17:55	00:00	0	355472	335377	99596	95542	1.06	ABV/ABV	
	PCB 16 (BZ)	20:42	00:00	0	326914	311571	83431	79577	1.05	ABV/ABV	D
	PCB 37 (BZ)	27:49	00:00	0	802506	785254	182066	175895	1.02	ABV/AVV	
268					268.0016	269.9986	268.0016	269.9986	0.88-1.20		
	Noise	00:00	00:00	0	580	328	232	131	1.77 *	/	
	13C12-PCB 19	17:54	00:00	0	631878	589905	176378	166571	1.07	AVV/ABV	
	13C12-PCB 32	21:09	00:00	0	1090347	1023595	269778	262574	1.07	AVV/AVV	
	13C12-PCB 31	23:25	00:00	0	1623497	1527748	395456	367149	1.06	AVV/ABV	
	13C12-PCB 28	23:43	00:00	0	1504220	1431227	352261	334002	1.05	AVB/AVV	
	13C12-PCB 37	27:48	00:00	0	1488164	1395212	330451	307486	1.07	ABV/ABV	
290					289.9224	291.9194	289.9224	291.9194	0.65-0.89		
	Noise	00:00	00:00	0	128	160	51	64	0.80	/	
	PCB 54 (BZ)	21:04	00:00	0	670562	841024	172162	213605	0.80	ABV/ABV	
	PCB 43 (BZ)	25:48	00:00	0	707959	906491	162543	213196	0.78	ABV/ABV	
	PCB 44 (BZ)	26:37	00:00	0	771739	962526	167966	215607	0.80	ABV/ABV	M
	PCB 74 (BZ)	30:25	00:00	0	1204199	1549137	257504	335870	0.78	ABV/AVV	M
	PCB 56 (BZ)	31:25	00:00	0	1143001	1466862	249418	316560	0.78	AVV/AVV	D
	PCB 77 (BZ)	35:08	00:00	0	1157051	1476064	238845	302799	0.78	ABV/ABV	
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	Noise	00:00	00:00	0	148	140	59	56	1.05 *	/	
	13C12-PCB 54	21:03	00:00	0	554610	690443	143676	184447	0.80	ABV/ABV	
	13C12-PCB 52	25:33	00:00	0	771463	957342	185210	227847	0.81	AVV/ABV	
	13C12-PCB 79	33:29	00:00	0	1156704	1424295	242070	301020	0.81	ABV/ABV	
	13C12-PCB 81	34:31	00:00	0	1048679	1303681	226733	271100	0.80	ABV/ABV	D

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030751.	Prep Date		SDG No	
Analysis ID	96251	Prep Exp Date		Date Received	
Analysis Date	03/07/07 21:10	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
302					301.9626	303.9597	301.9626	303.9597	0.65-0.89		
	13C12-PCB 77	35:07	00:00	0	1082564	1339197	223342	284528	0.81	ABB/ABB	D
326					325.8804	327.8775	325.8804	327.8775	1.32-1.78		
	Noise	00:00	00:00	0	193	175	77	70	1.10 *	/	
	PCB 104 (BZ)	26:30	00:00	0	1317389	840124	300393	195562	1.57	ABV/ABV	
	PCB 98 (BZ)	29:55	00:00	0	866799	552649	192313	122979	1.57	ABV/ABV	D
	PCB 125 (BZ)	33:37	00:00	0	1279247	802529	269082	169692	1.59	ABV/ABV	D
	PCB 110 (BZ)	34:27	00:00	0	1342031	840265	290807	177120	1.60	AVV/AVV	D
	PCB 126 (BZ)	41:41	00:00	0	1515399	974881	311586	202197	1.55	ABV/ABV	
338					337.9207	339.9178	337.9207	339.9178	1.32-1.78		
	Noise	00:00	00:00	0	148	130	59	52	1.13 *	/	
	13C12-PCB 104	26:29	00:00	0	1230798	763947	286336	177432	1.61	ABV/ABV	D
	13C12-PCB 95	29:31	00:00	0	907246	563415	200285	129752	1.61	ABV/ABV	D
	13C12-PCB 101	32:22	00:00	0	925000	582420	200799	127987	1.59	ABV/AVV	
	13C12-PCB 111	35:00	00:00	0	1183642	738122	257882	161150	1.60	ABV/ABV	
	13C12-PCB 123	37:02	00:00	0	1450680	914651	305711	190281	1.59	ABV/ABV	D
	13C12-PCB 118	37:21	00:00	0	1531032	948690	315690	200210	1.61	AVV/AVV	D
	13C12-PCB 114	37:54	00:00	0	1490457	921468	296958	187677	1.62	AVV/AVV	D
	13C12-PCB 105	38:36	00:00	0	1461297	910300	304135	189950	1.61	ABB/AVV	D
	13C12-PCB 127	39:58	00:00	0	1544457	967145	321789	204317	1.60	AVV/AVV	
	13C12-PCB 126	41:40	00:00	0	1530701	965586	314410	197476	1.59	ABV/ABV	D
360					359.8415	361.8385	359.8415	361.8385	1.05-1.43		
	Noise	00:00	00:00	0	148	128	59	51	1.16	/	
	PCB 155 (BZ)	32:04	00:00	0	1104439	864536	242090	188319	1.28	ABV/ABV	
	PCB 138 (BZ)	40:30	00:00	0	982084	778906	205724	156943	1.26	ABV/ABV	
	PCB 169 (BZ)	47:52	00:00	0	1306396	1033416	263737	209816	1.26	AVV/AVV	
372					371.8817	373.8788	371.8817	373.8788	1.05-1.43		
	Noise	00:00	00:00	0	133	145	53	58	0.91 *	/	
	13C12-PCB 155	32:03	00:00	0	1036578	780250	229481	175042	1.33	ABV/ABV	D
	13C12-PCB 153	39:10	00:00	0	1032444	808024	210378	171738	1.28	ABV/ABV	D
	13C12-PCB 138	40:28	00:00	0	997950	781219	211843	162411	1.28	ABV/ABV	
	13C12-PCB 167	43:25	00:00	0	1272121	998452	258991	207684	1.27	AVV/AVV	
	13C12-PCB 156	44:35	00:00	0	1320367	840018	256593	200463	1.57 *	ABV/ABV	RD
	13C12-PCB 157	44:40	00:00	0	1224382	1126975	285550	220747	1.09	AVB/AVB	M
	13C12-PCB 169	47:50	00:00	0	1242963	965288	252431	196538	1.29	AVV/ABV	D
394					393.8025	395.7995	393.8025	395.7995	0.89-1.21		
	Noise	00:00	00:00	0	128	125	51	50	1.02	/	
	PCB 188 (BZ)	37:48	00:00	0	1089092	1033351	222263	212593	1.05	ABV/ABV	
	PCB 189 (BZ)	50:21	00:00	0	1165542	1146996	237933	218850	1.02	AVV/AVV	
406					405.8428	407.8398	405.8428	407.8398	0.89-1.21		
	Noise	00:00	00:00	0	188	153	75	61	1.23 *	/	
	13C12-PCB 188	37:47	00:00	0	1071557	1020936	229675	215867	1.05	ABV/ABV	D
	13C12-PCB 178	40:51	00:00	0	676531	641151	138602	131979	1.06	ABV/ABV	
	13C12-PCB 180	45:56	00:00	0	860543	797060	176369	167380	1.08	ABV/ABV	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PCB's by EPA Method 1668A

IsoCalc

Workorder	2990:75MIX5	Prep Batch		Lot No	
Data File	/20070307rt/a07030751.	Prep Date		SDG No	
Analysis ID	96251	Prep Exp Date		Date Received	
Analysis Date	03/07/07 21:10	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	M1D	Extract Vol		Method	IE3
Analyst	DCG	Diluton Factor	1.00	Code	IE3

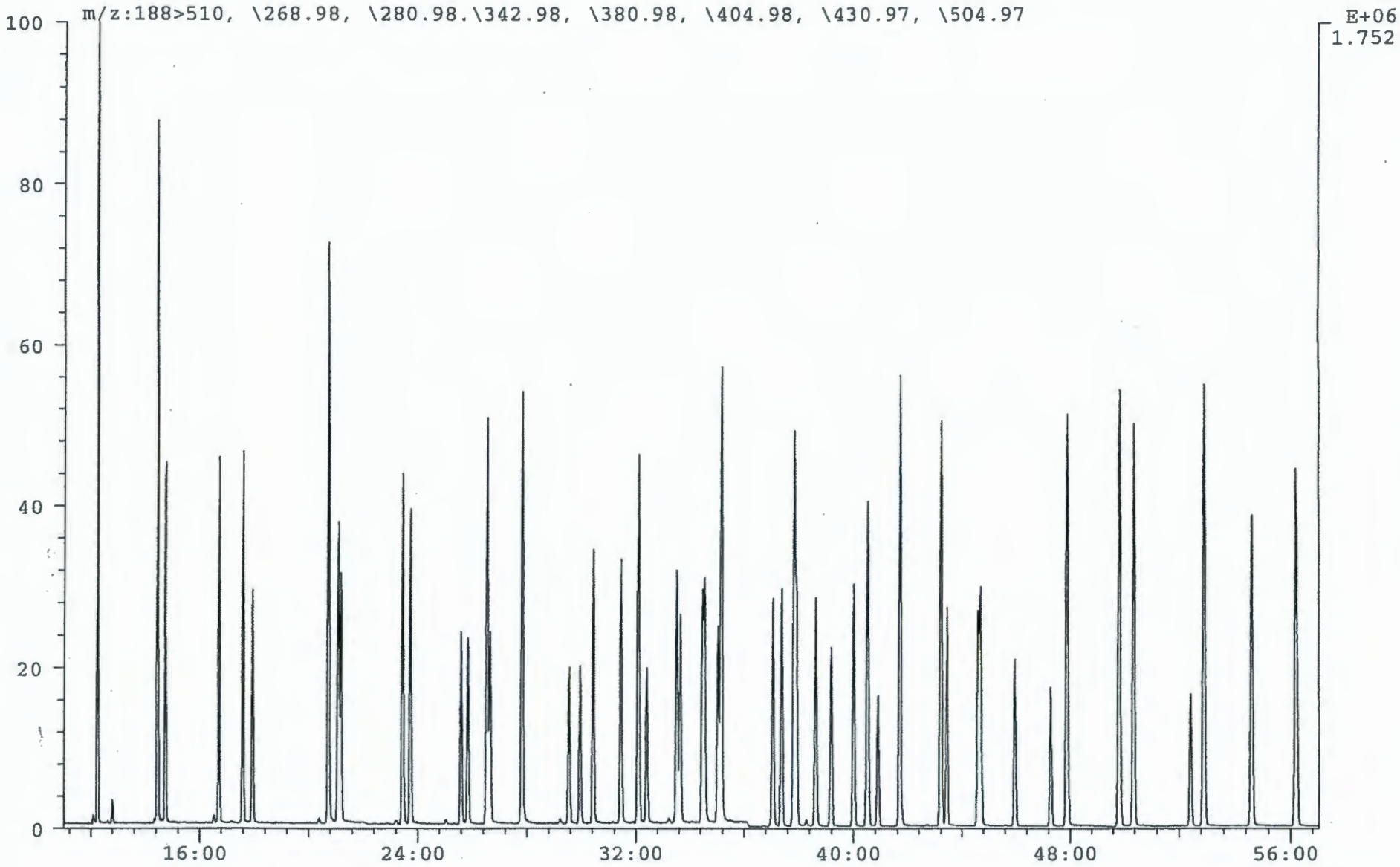
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
406					**405.8428**	**407.8398**	**405.8428**	**407.8398**	**0.89-1.21**		
	13C12-PCB 170	47:16	00:00	0	714910	665415	144314	137785	1.07	ABV/AVV	
	13C12-PCB 189	50:20	00:00	0	1171193	1106110	235972	222897	1.06	ABV/ABV	D
428					**427.7635**	**429.7606**	**427.7635**	**429.7606**	**0.76-1.02**		
	Noise	00:00	00:00	0	138	143	55	57	0.96	/	
	PCB 202 (BZ)	43:11	00:00	0	1216349	1343957	247953	275029	0.91	ABV/ABV	
	PCB 205 (BZ)	52:53	00:00	0	1401896	1547815	282902	316283	0.91	AVV/AVV	
440					**439.8038**	**441.8008**	**439.8038**	**441.8008**	**0.76-1.02**		
	Noise	00:00	00:00	0	138	178	55	71	0.77	/	
	13C12-PCB 202	43:10	00:00	0	833731	911746	169293	191120	0.91	ABV/ABV	D
	13C12-PCB 194	52:23	00:00	0	668447	731737	129147	145122	0.91	ABB/ABV	
	13C12-PCB 205	52:52	00:00	0	961592	1076341	190393	209941	0.89	ABV/AVV	
462					**461.7246**	**463.7216**	**461.7246**	**463.7216**	**0.65-0.89**		
	Noise	00:00	00:00	0	180	188	72	75	0.96 *	/	
	PCB 208 (BZ)	49:48	00:00	0	1165677	1454642	228808	289011	0.80	ABV/ABV	
	PCB 206 (BZ)	54:35	00:00	0	837138	1069718	163934	215136	0.78	ABV/ABV	
474					**473.7648**	**475.7619**	**473.7648**	**475.7619**	**0.65-0.89**		
	Noise	00:00	00:00	0	155	150	62	60	1.03 *	/	
	13C12-PCB 208	49:47	00:00	0	824353	1030598	166834	208597	0.80	AVV/AVV	
	13C12-PCB 206	54:34	00:00	0	560196	709966	113182	146060	0.79	AVV/ABV	
496					**495.6856**	**497.6826**	**495.6856**	**497.6826**	**0.59-0.79**		
	Noise	00:00	00:00	0	108	85	43	34	1.26 *	/	
	PCB 209 (BZ)	56:10	00:00	0	927042	1325680	174866	242385	0.70	ABV/ABV	
508					**507.7258**	**509.7229**	**507.7258**	**509.7229**	**0.59-0.79**		
	Noise	00:00	00:00	0	155	173	62	69	0.90 *	/	
	13C12-PCB 209	56:09	00:00	0	656301	919743	119990	172872	0.71	ABV/ABV	

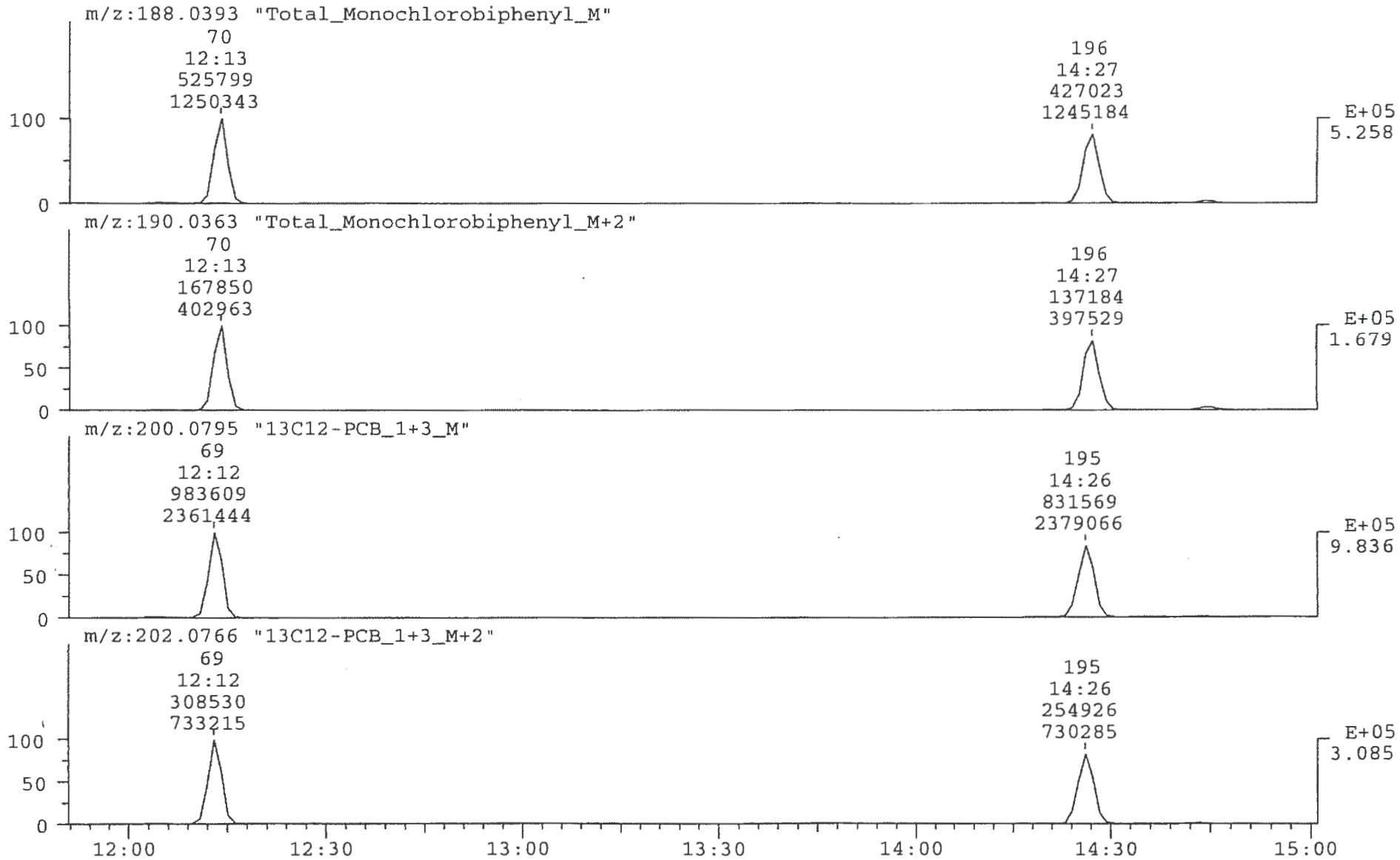
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

```
CHRO:  a07030751                                07-Mar-07   Elapse:  56:10      2554
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   2 > 2602              Masses:  181 > 510
Area:  5, 0.50, 0       Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```

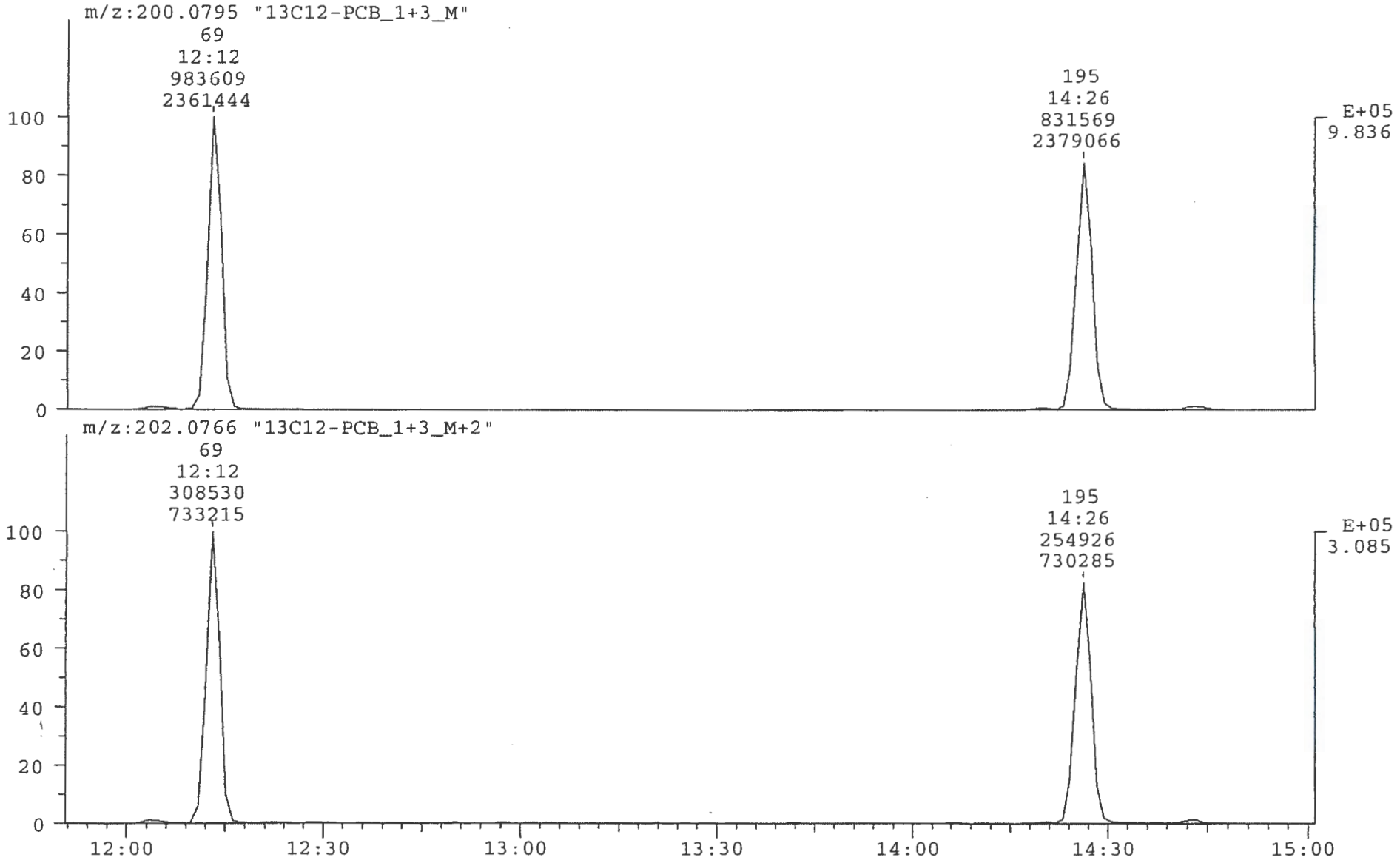
Int DCs 3-17-07
Calc DCs 3-19-07
QC KYN 3/19/07



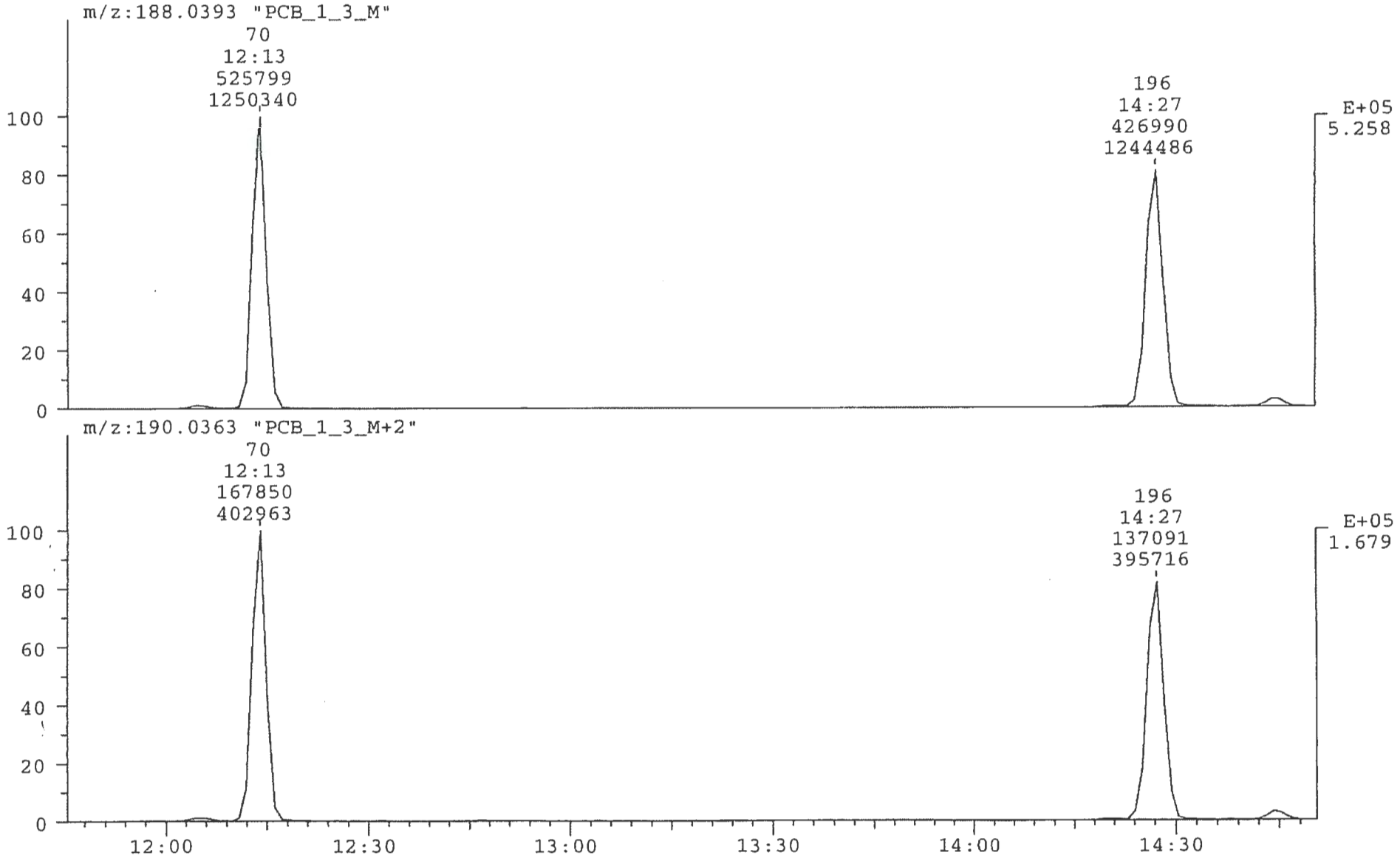
```
CHRO:  a07030751                                07-Mar-07   Elapse:  56:11      2555
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



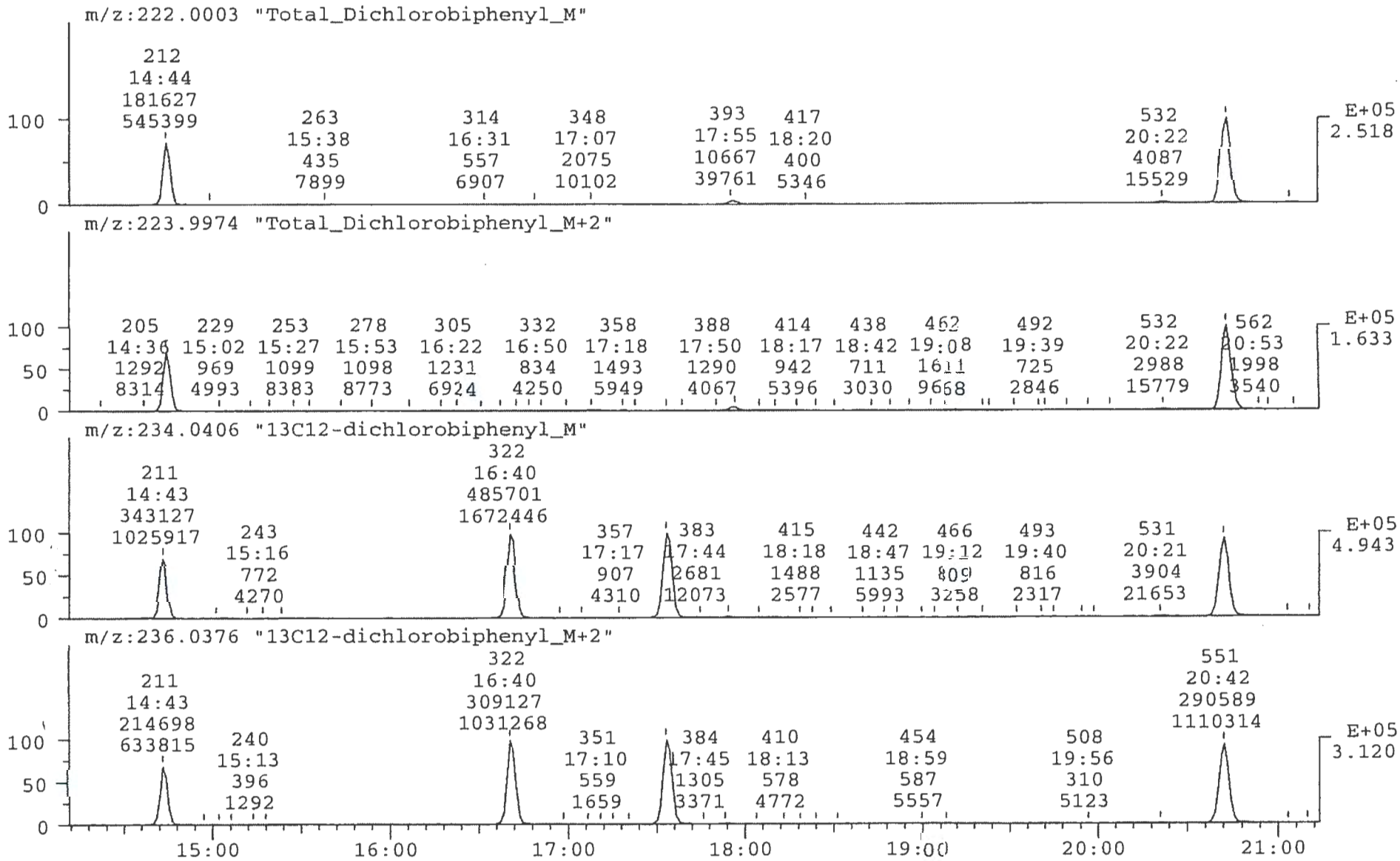
```
CHRO:  a07030751                                07-Mar-07   Elapse:  13:25.9      138
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   48 > 228              Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



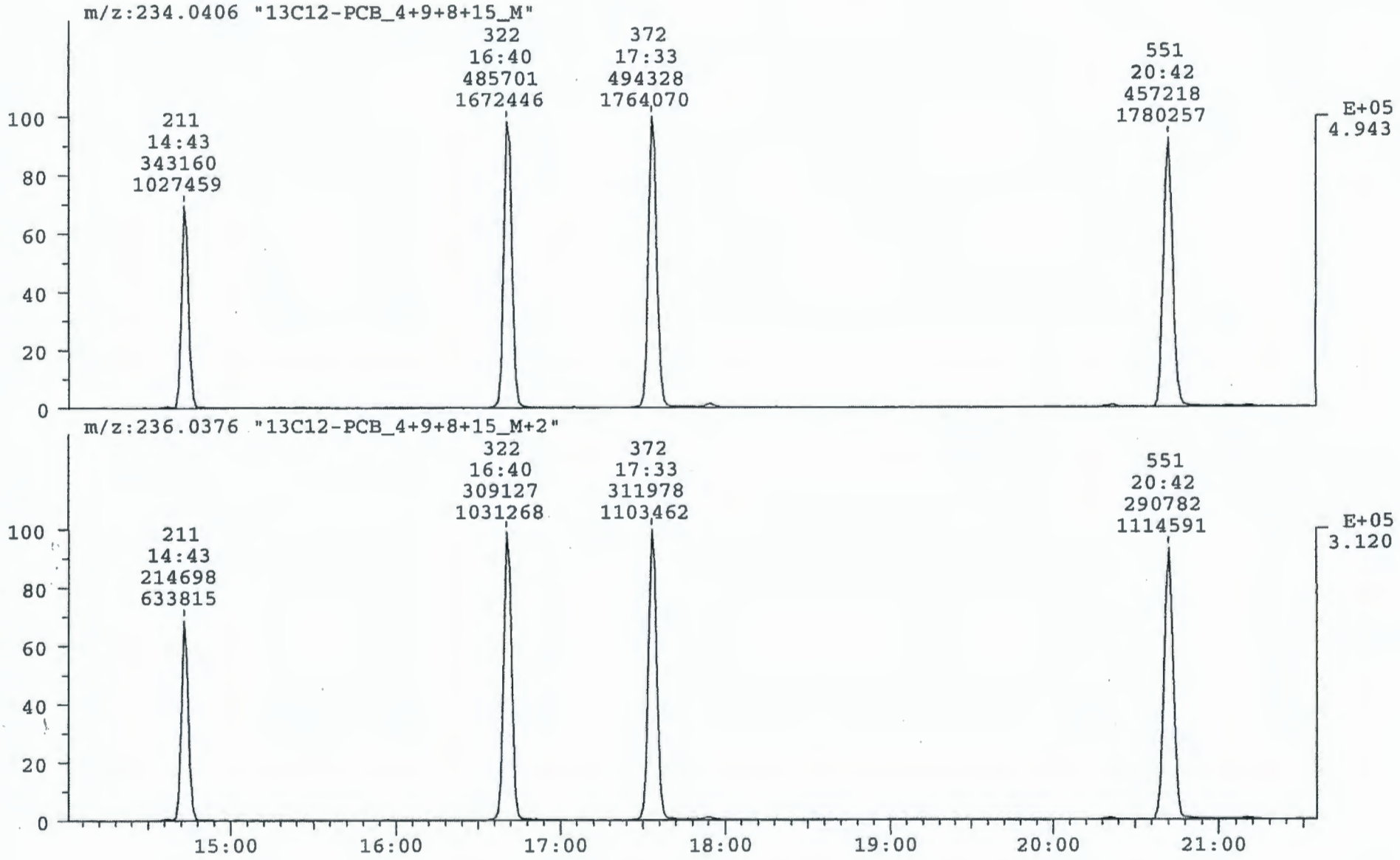
CHRO: a07030751 07-Mar-07 Elapse: 13:25.9 138
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 43 > 218 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



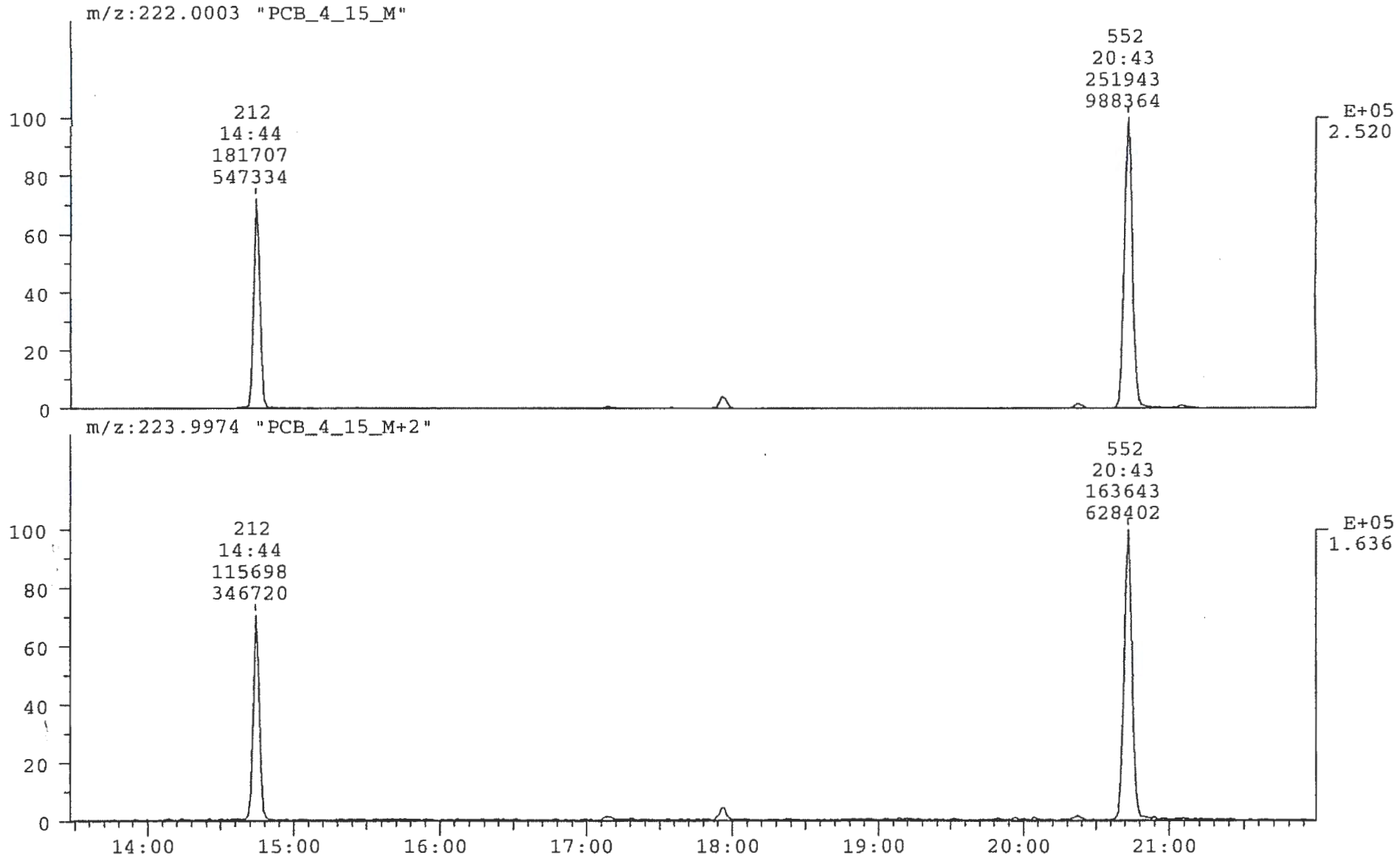
CHRO: a07030751 07-Mar-07 Elapse: 17:42.6 381
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 181 > 581 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



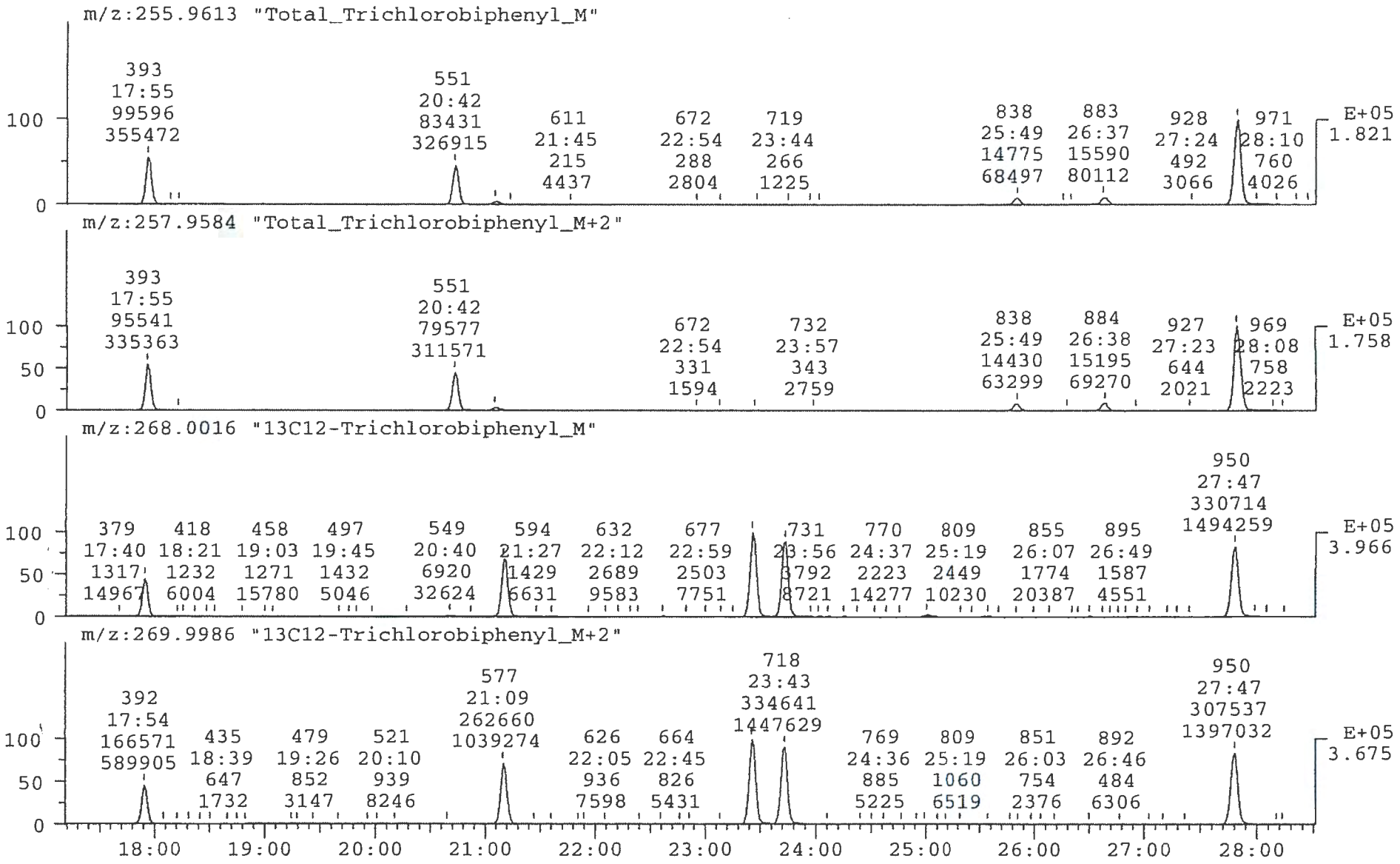
CHRO: a07030751 07-Mar-07 Elapse: 17:42.6 381
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 171 > 601 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



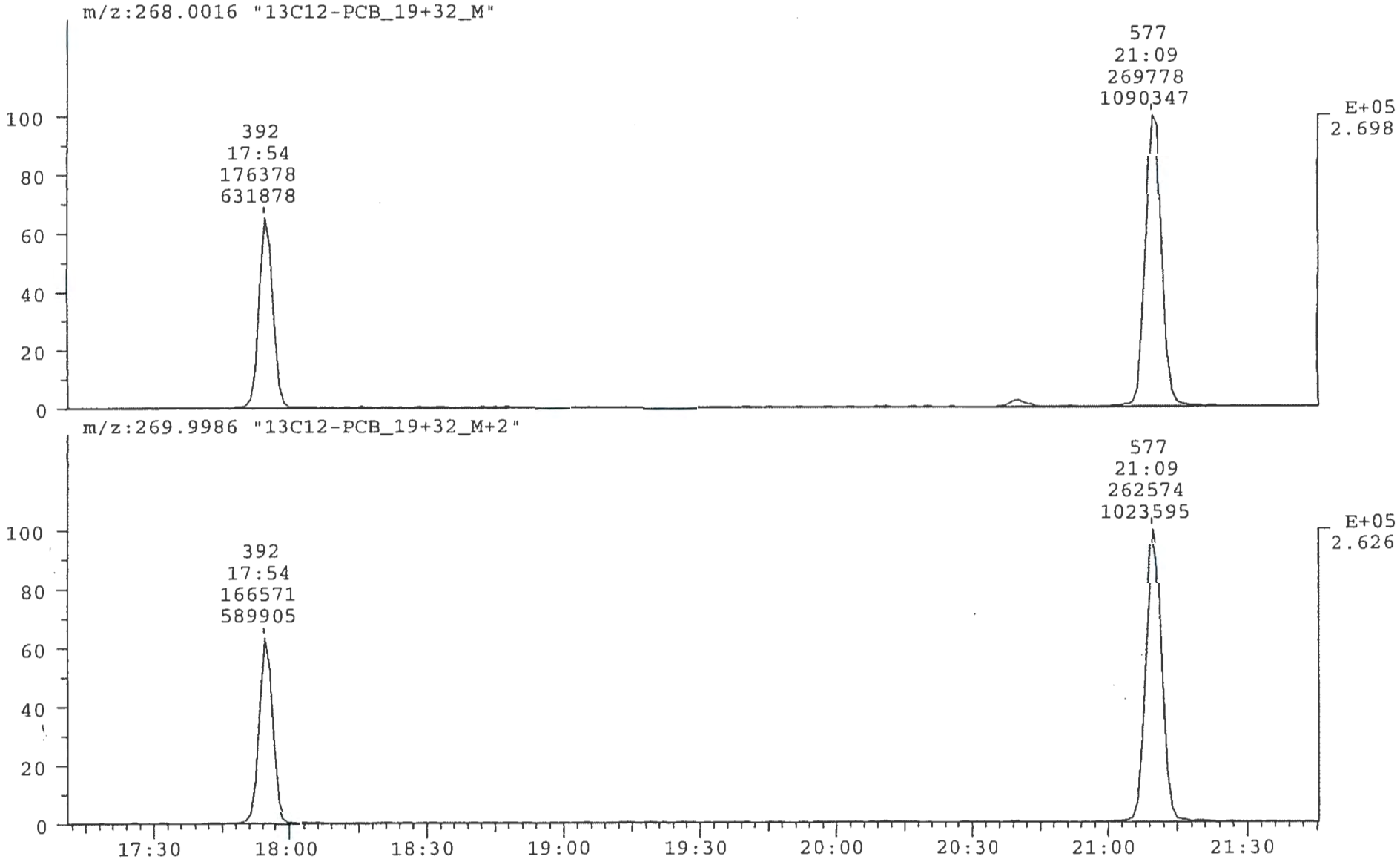
```
CHRO:  a07030751                                07-Mar-07   Elapse:  17:42.6      381
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   140 > 624             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



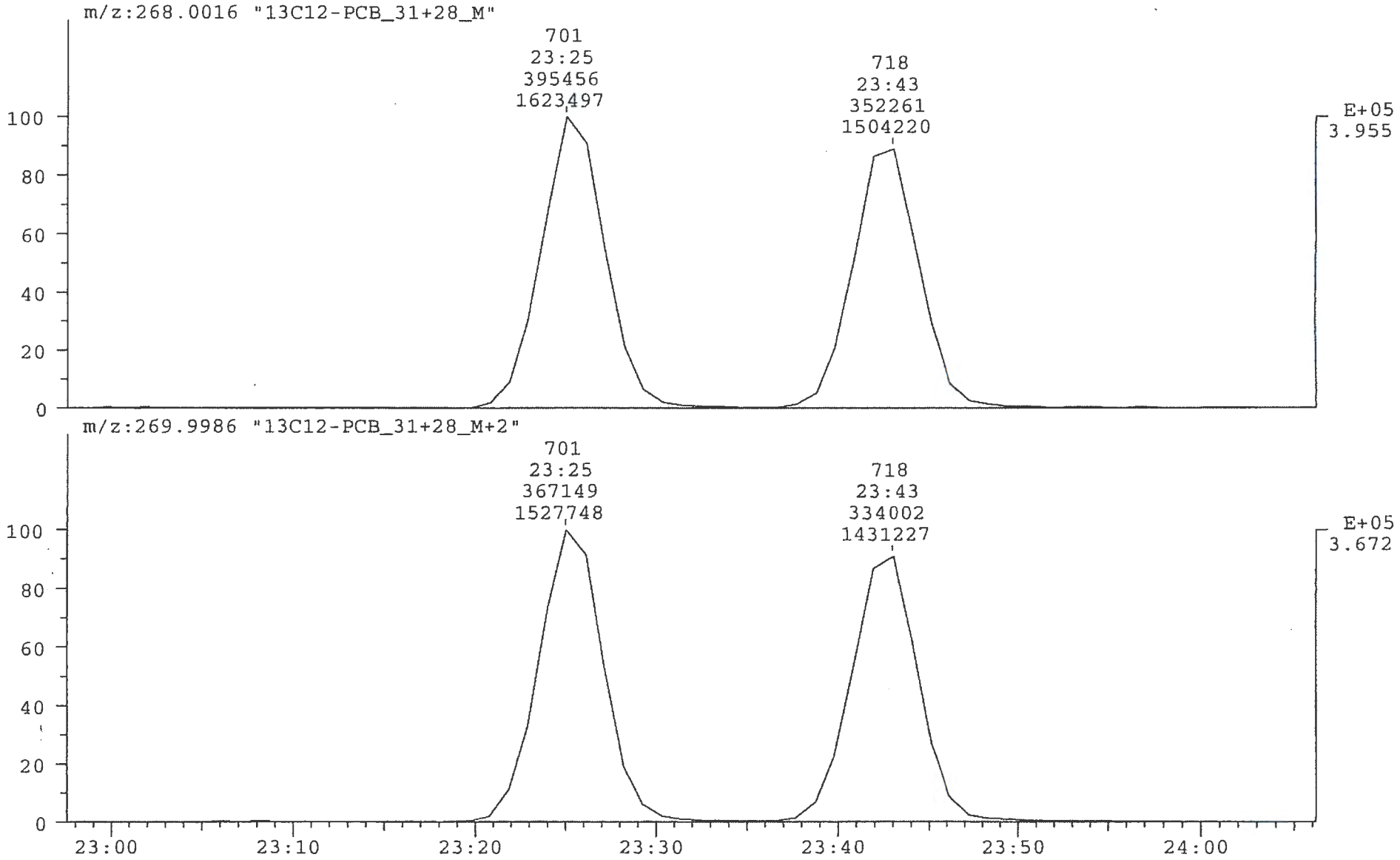
CHRO: a07030751 07-Mar-07 Elapse: 22:53.3 671
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 351 > 991 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



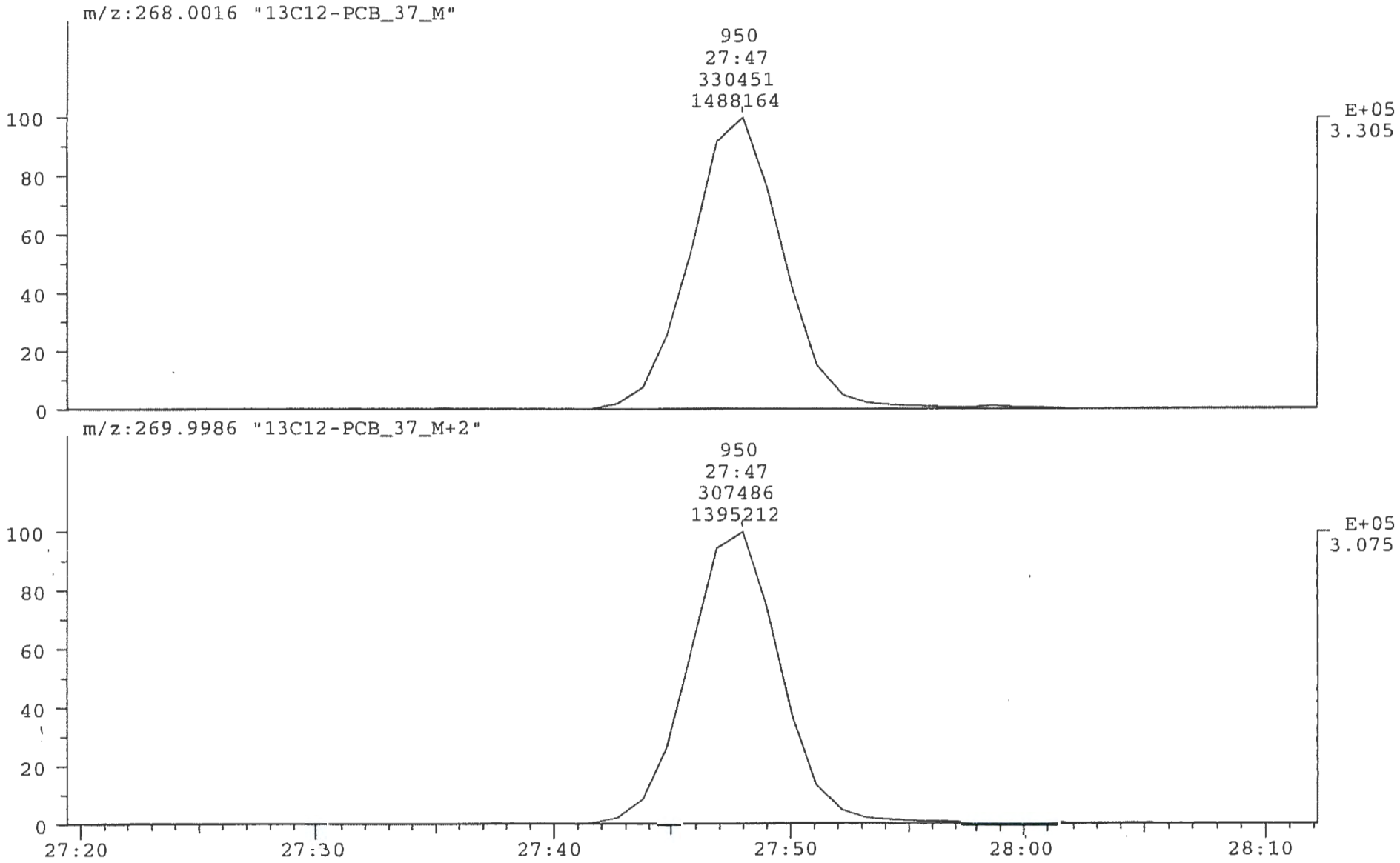
CHRO: a07030751 07-Mar-07 Elapse: 19:17.7 471
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 351 > 611 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -3, 3.0
Disp: Height Area



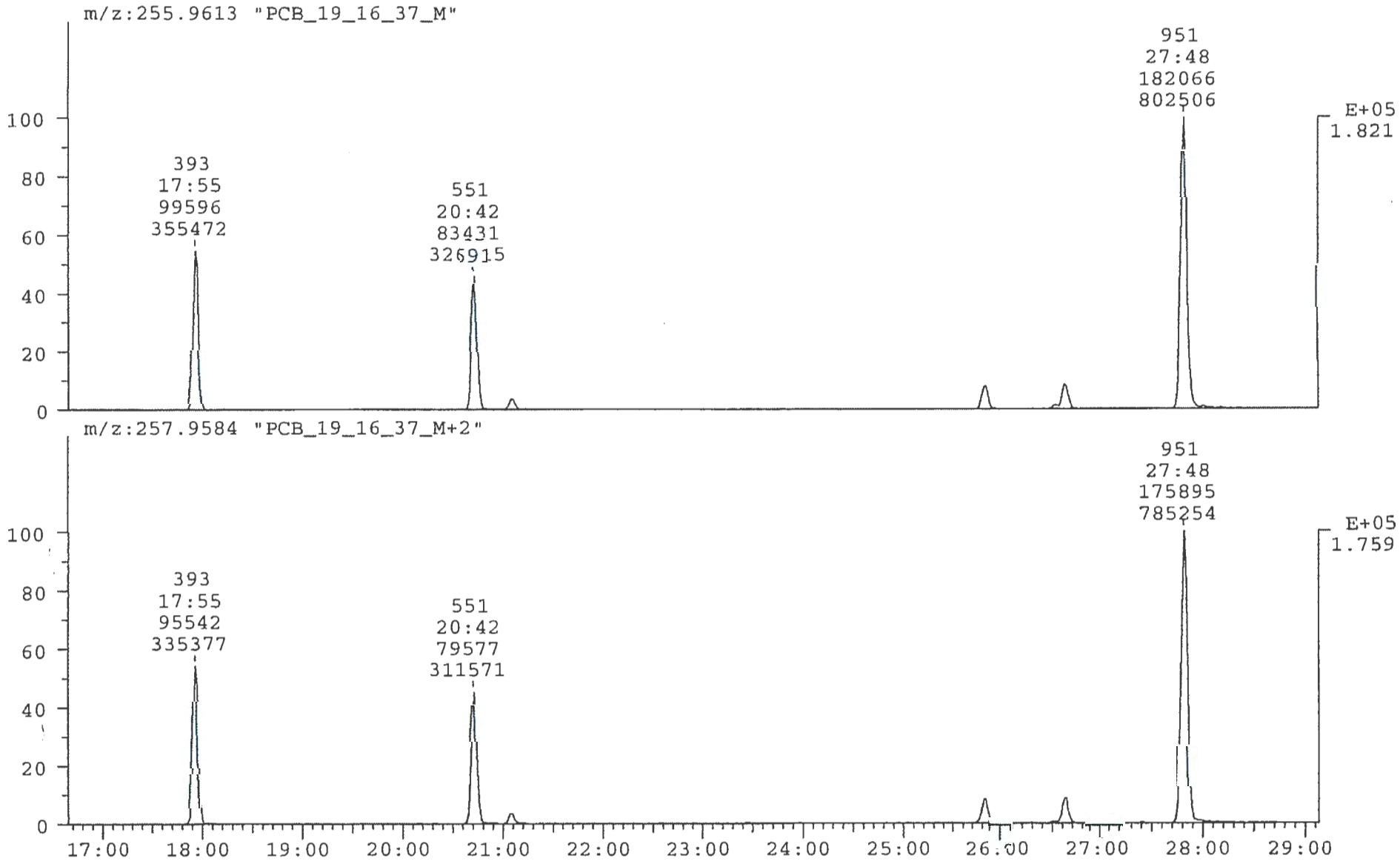
CHRO: a07030751 07-Mar-07 Elapse: 23:24.9 700
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 675 > 740 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



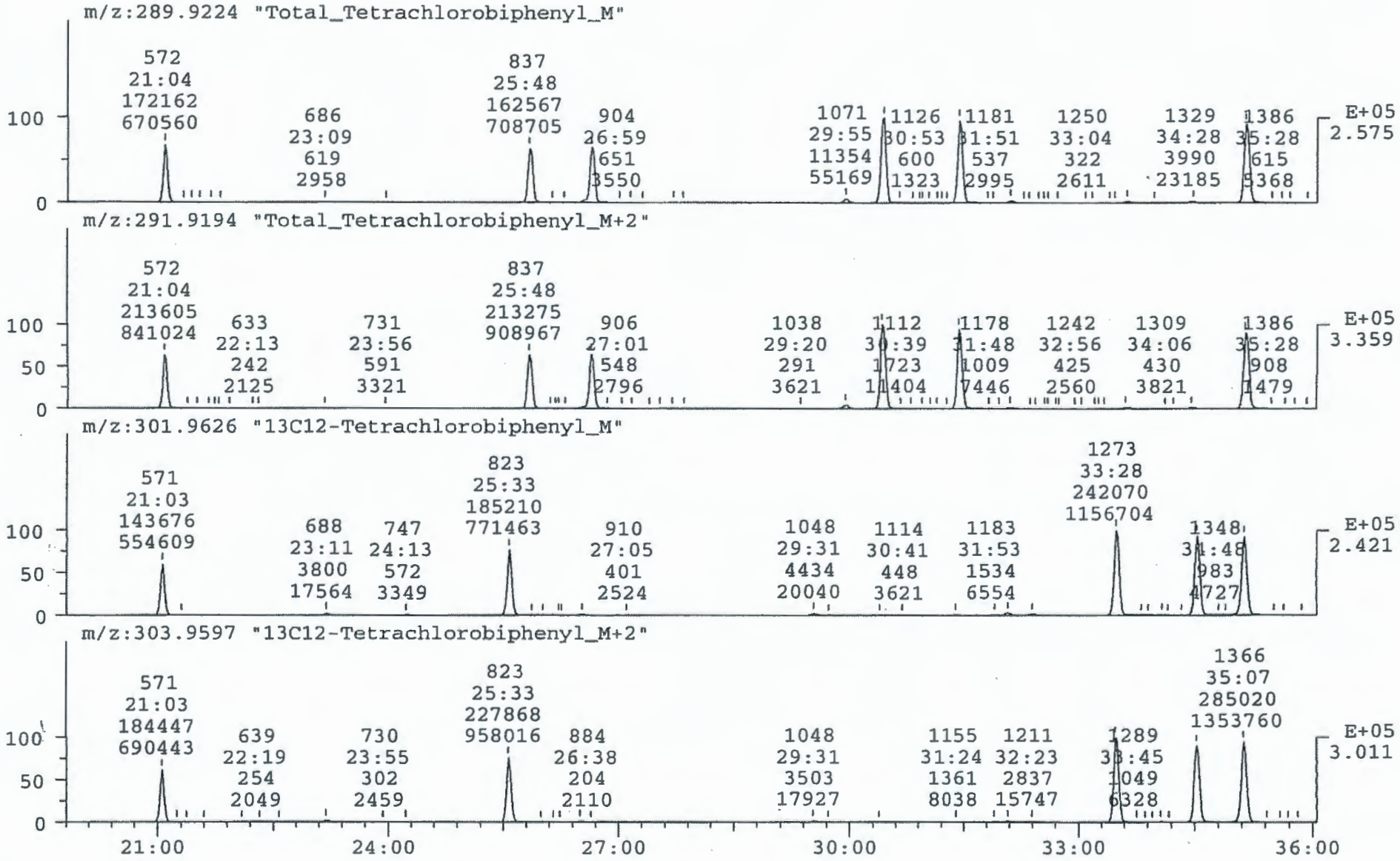
CHRO: a07030751 07-Mar-07 Elapse: 27:45.8 948
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 923 > 973 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



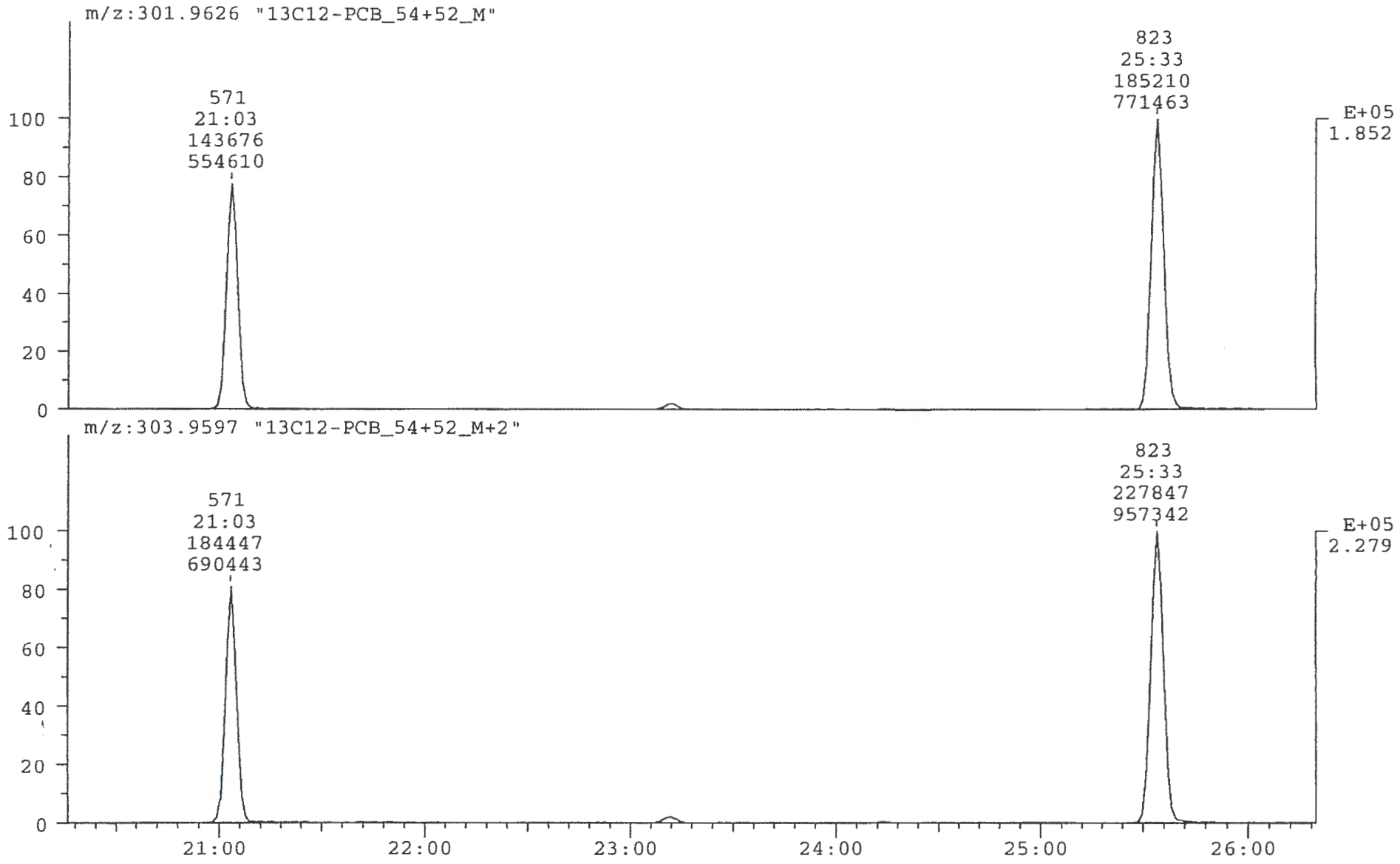
```
CHRO:  a07030751                                07-Mar-07   Elapse:  22:53.3      671
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   321 > 1026            Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



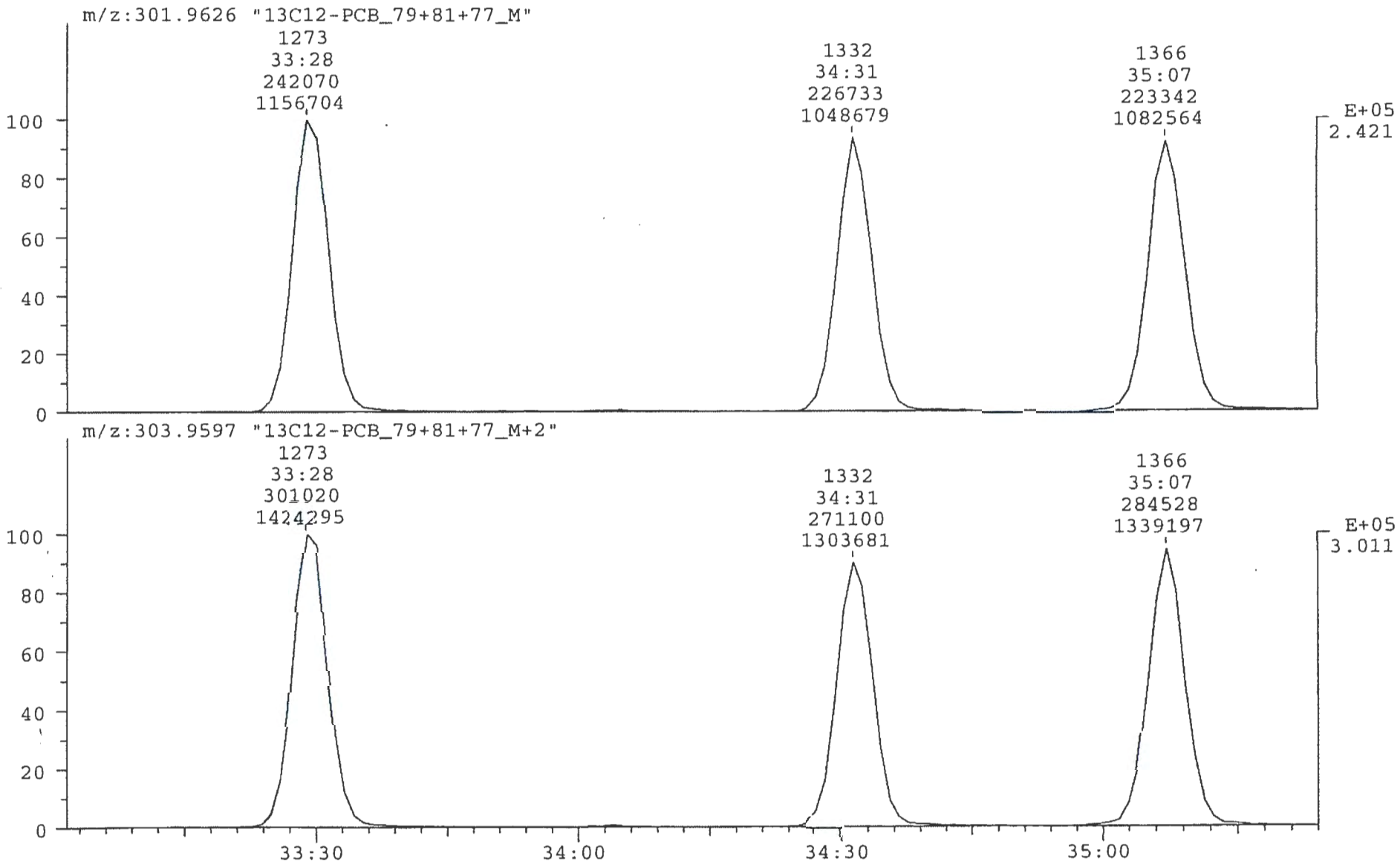
CHRO: a07030751 07-Mar-07 Elapse: 27:55.3 957
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 500 > 1419 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



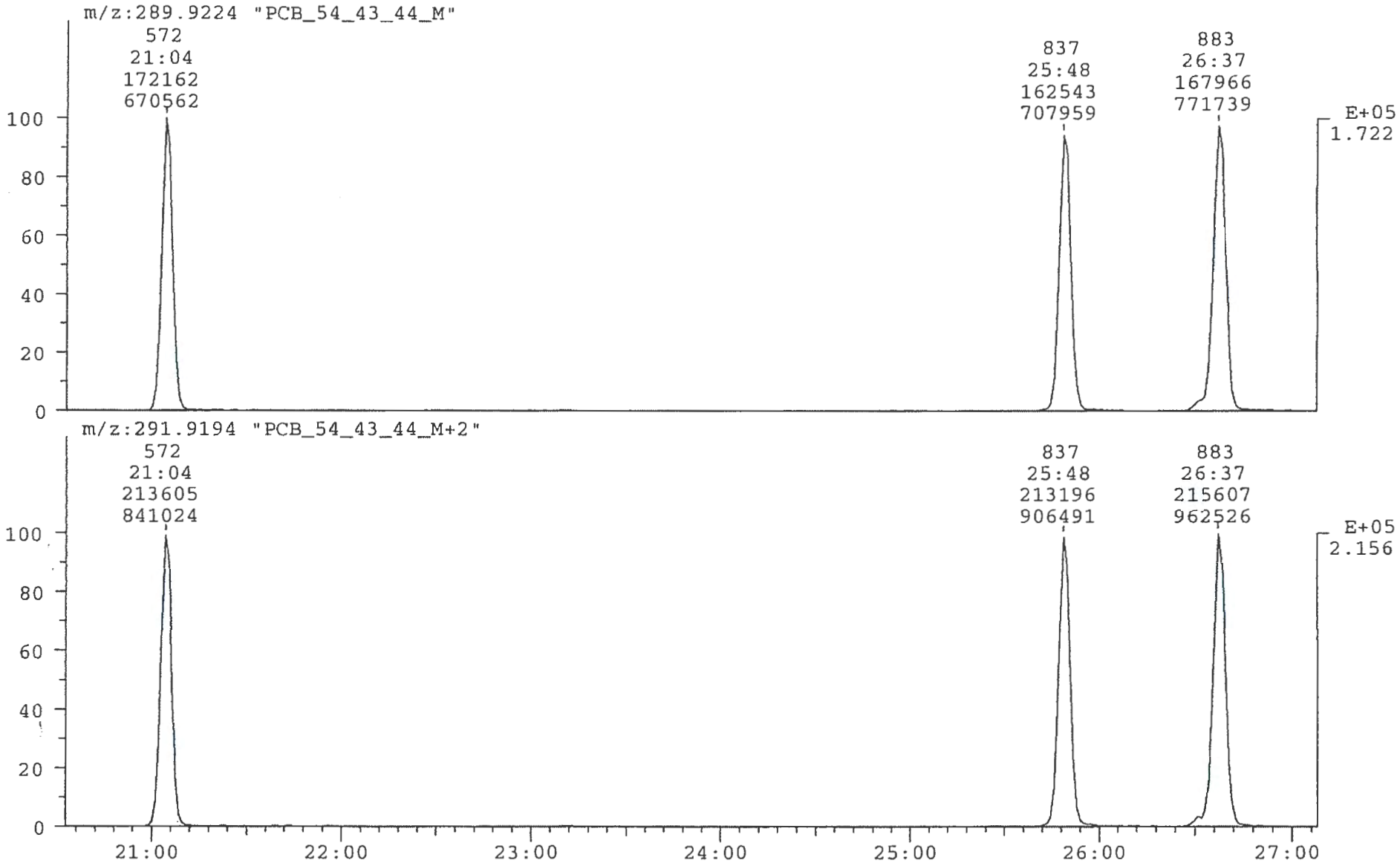
```
CHRO:  a07030751                                07-Mar-07   Elapse:  23:19.7      696
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24    2602
Comm:  Inst=mld/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial   7
Peak:  100.00  ppm      Label wndw:   526 > 866             Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```



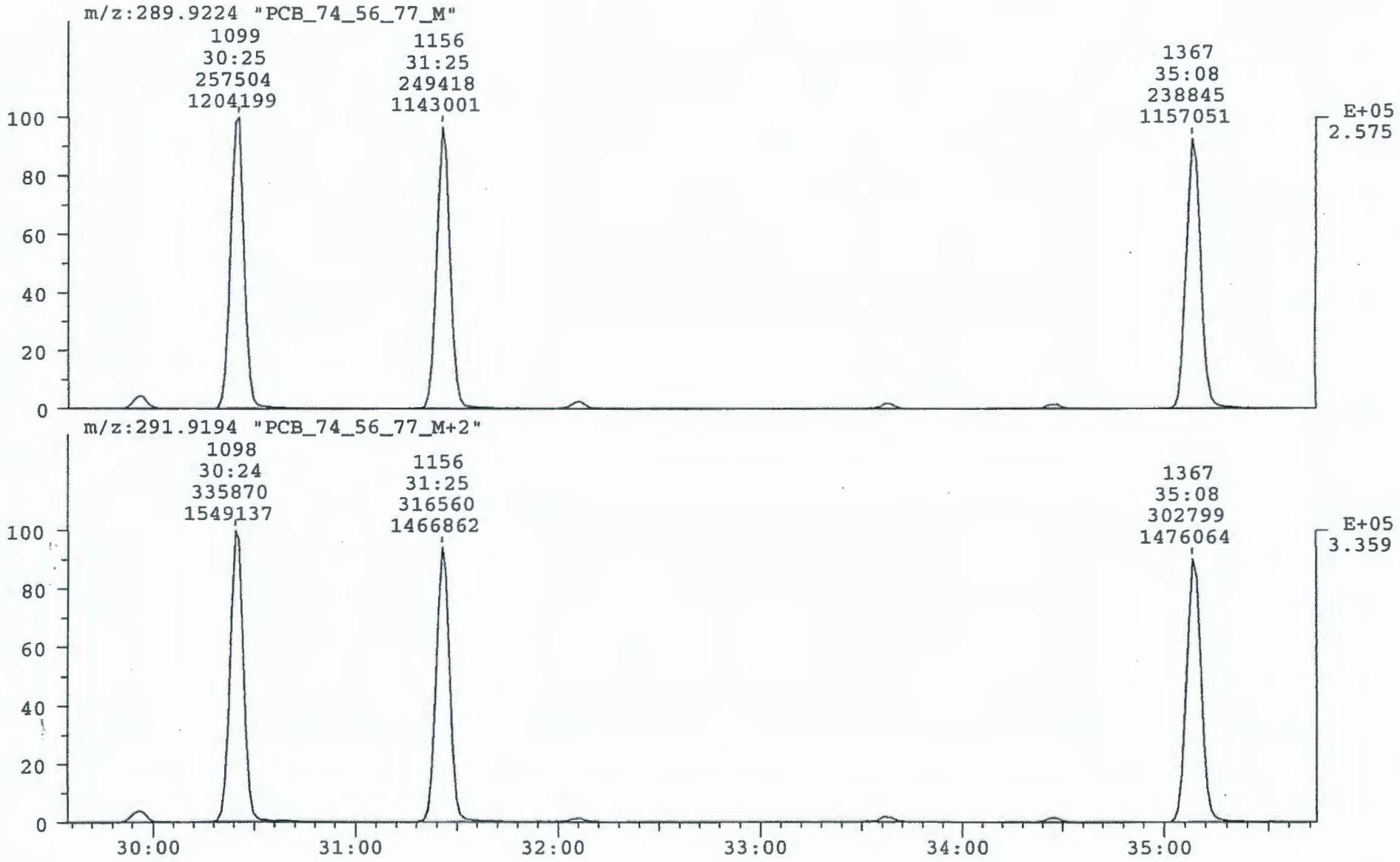
CHRO: a07030751 07-Mar-07 Elapse: 34:15 1317
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 1247 > 1382 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



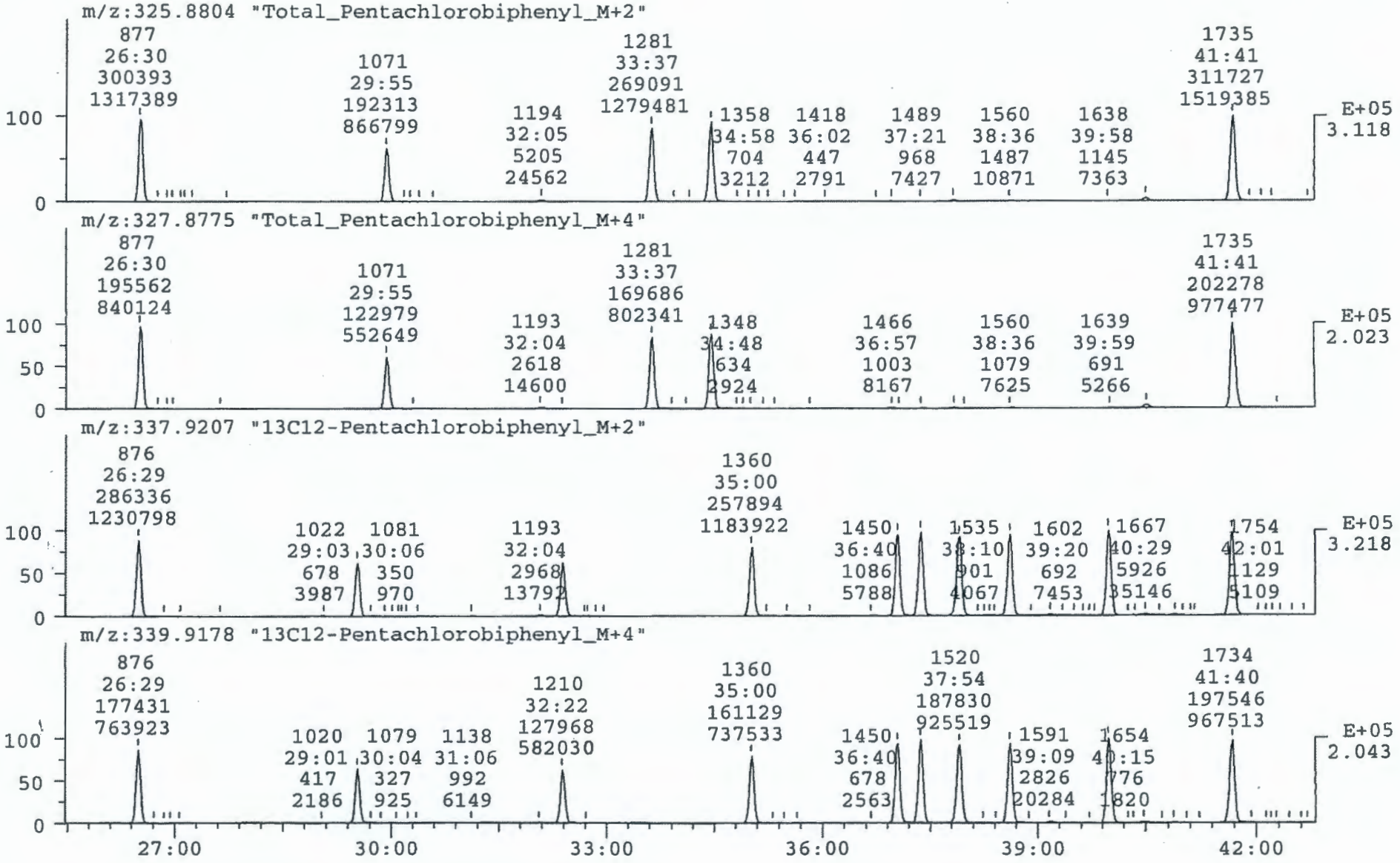
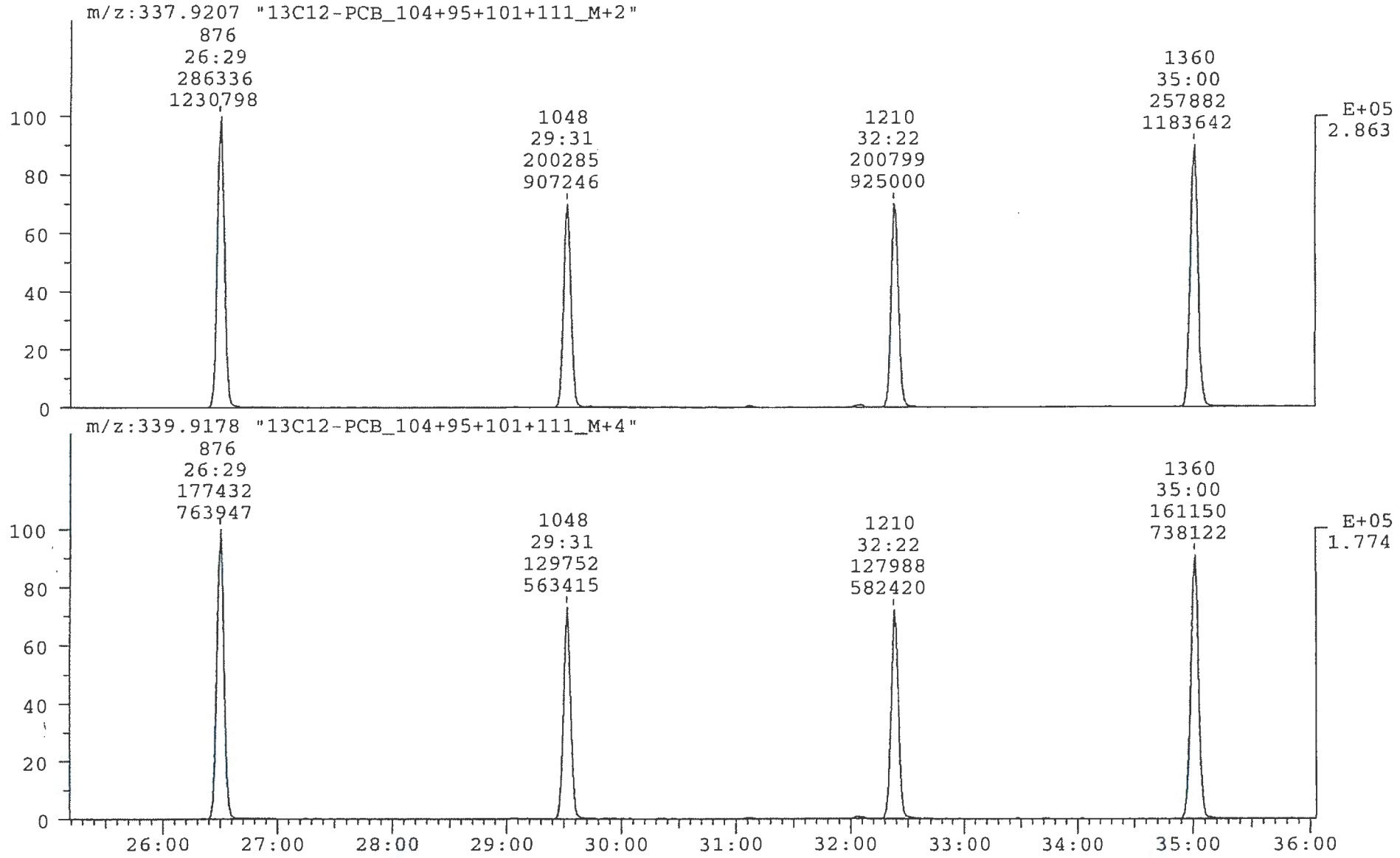
CHRO: a07030751 07-Mar-07 Elapse: 23:52.4 727
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 542 > 912 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030751                                07-Mar-07   Elapse:  32:39      1226
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG            Client:  STL Knoxville                Inlet :  GC     Vial  7
Peak:  100.00  ppm      Label wndw:   1051 > 1401           Masses:  181 > 510
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :  -3, 3.0
Disp:  Height  Area
```



CHRO: a07030751 07-Mar-07 Elapse: 34:08 1310
Samp: Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1 Start : 21:10:24 2602
Comm: Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode: EI +VE +LMR ESCAN LR NRM Study : 1668 RT Mix5/Run1
Oper: DCG Client: STL Knoxville Inlet : GC Vial 7
Peak: 100.00 ppm Label wndw: 817 > 1798 Masses: 181 > 510
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -3, 3.0
Disp: Height Area



```
CHRO:  a07030751                                07-Mar-07   Elapse:  30:36      1110
Samp:  Vial 7 WO=2990:75Mix5 Meth=IE3 Dil=1                 Start :  21:10:24   2602
Comm:  Inst=m1d/35055-03a Batch=20070307rt Ccal=20070313i
Mode:  EI +VE +LMR  ESCAN LR NRM                            Study :  1668 RT Mix5/Run1
Oper:  DCG          Client:  STL Knoxville                  Inlet :  GC     Vial   7
Peak:  100.00  ppm     Label wndw:   801 > 1419             Masses:  181 > 510
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :  -3, 3.0
Disp:  Height  Area
```