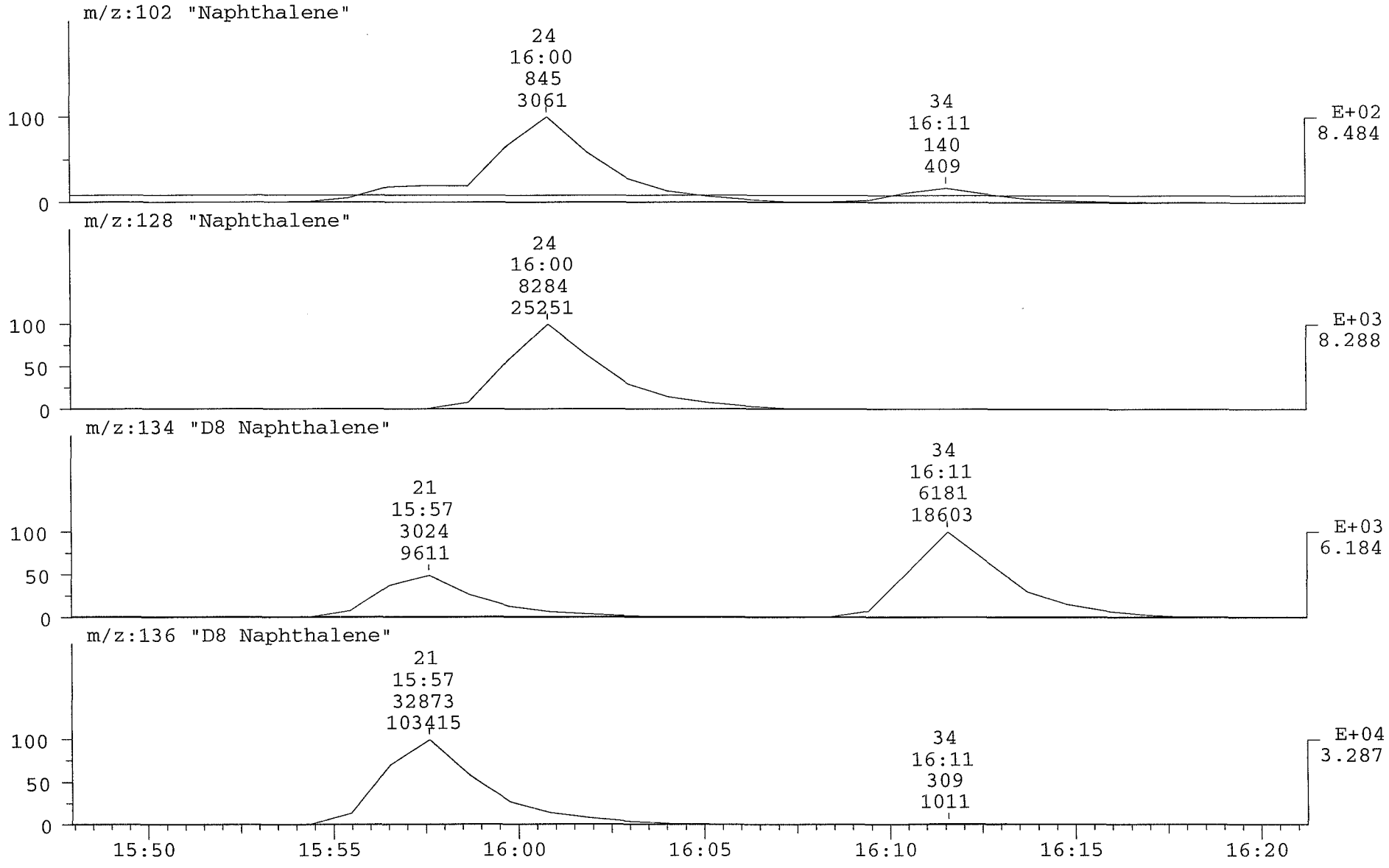
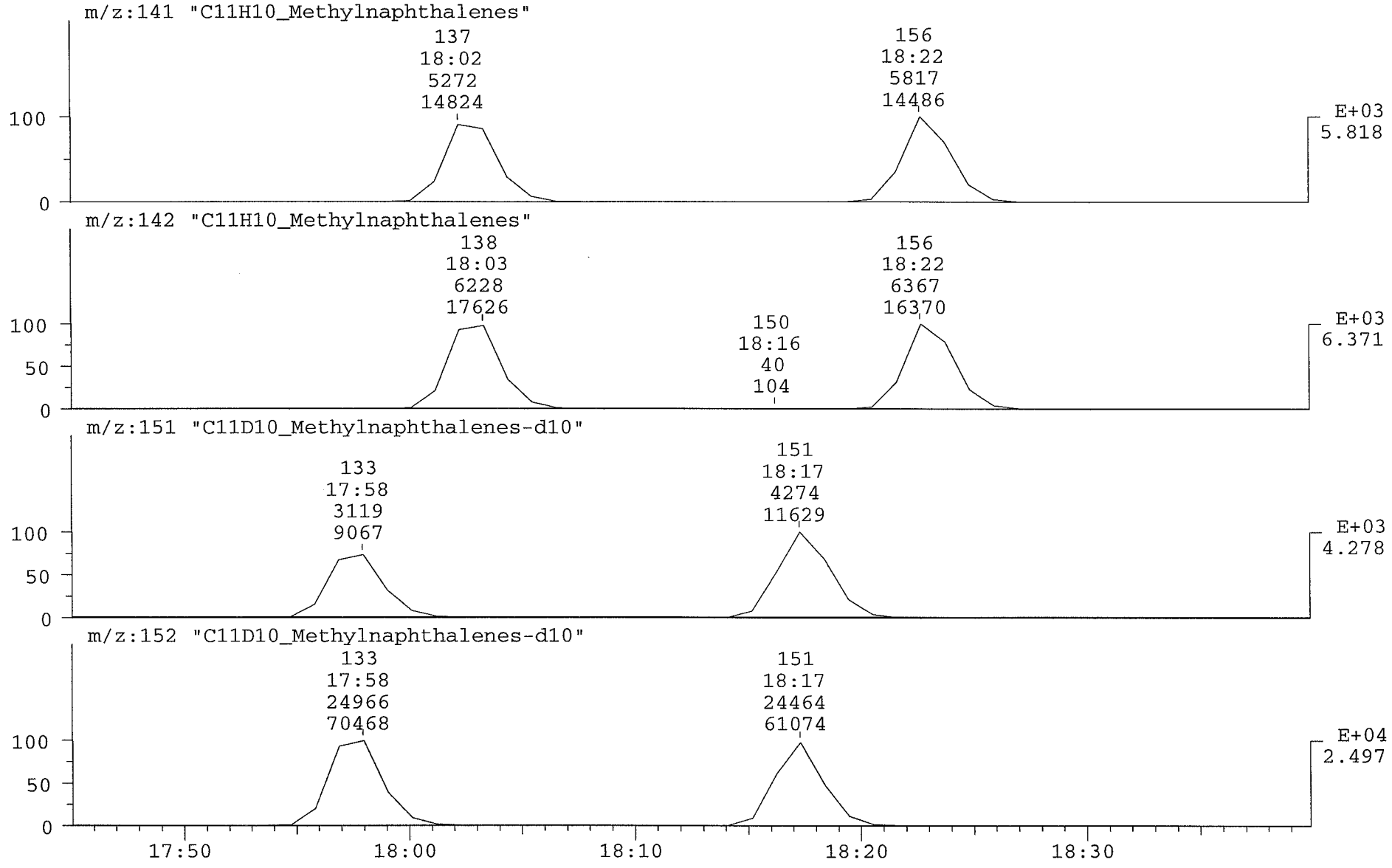
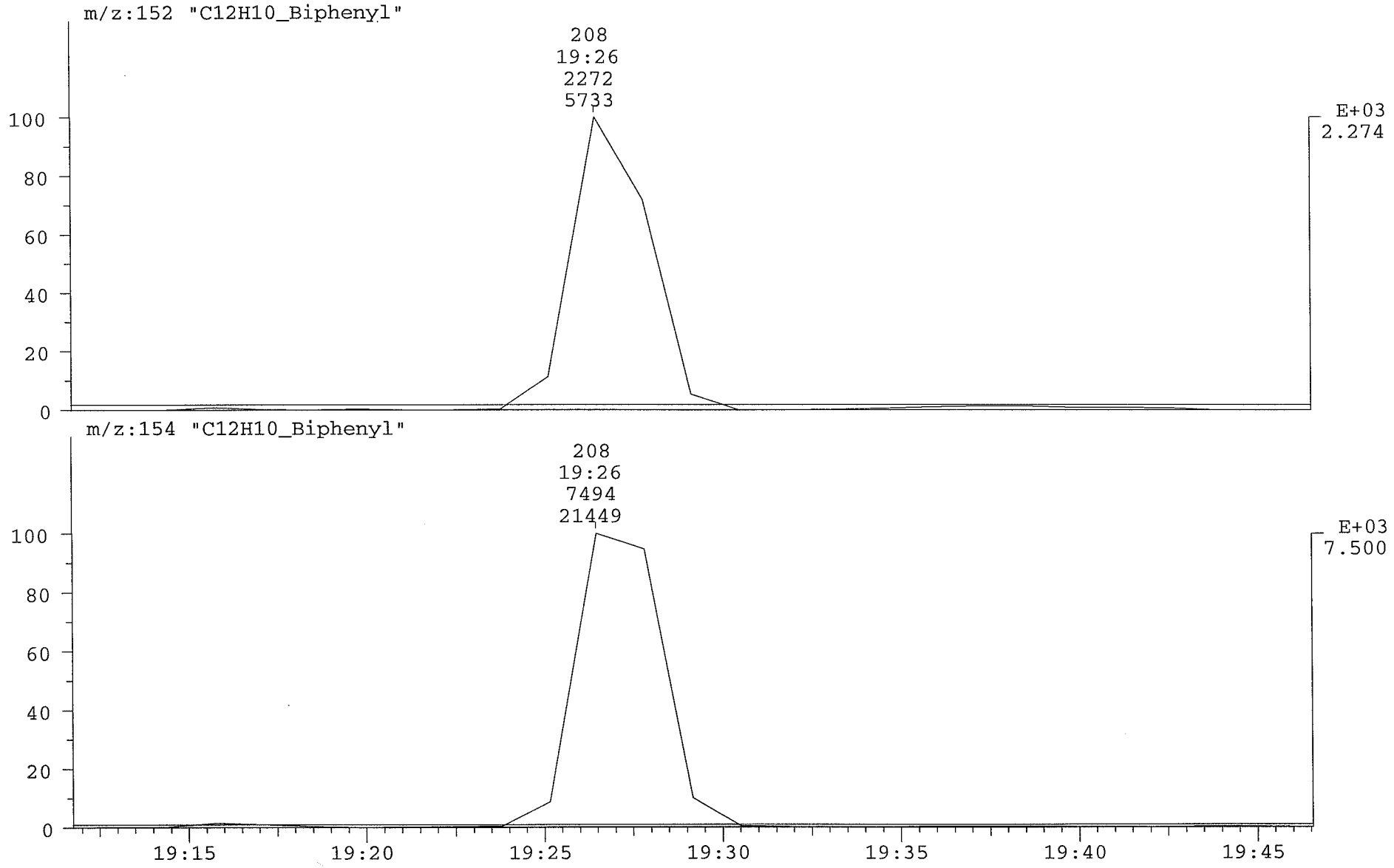
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



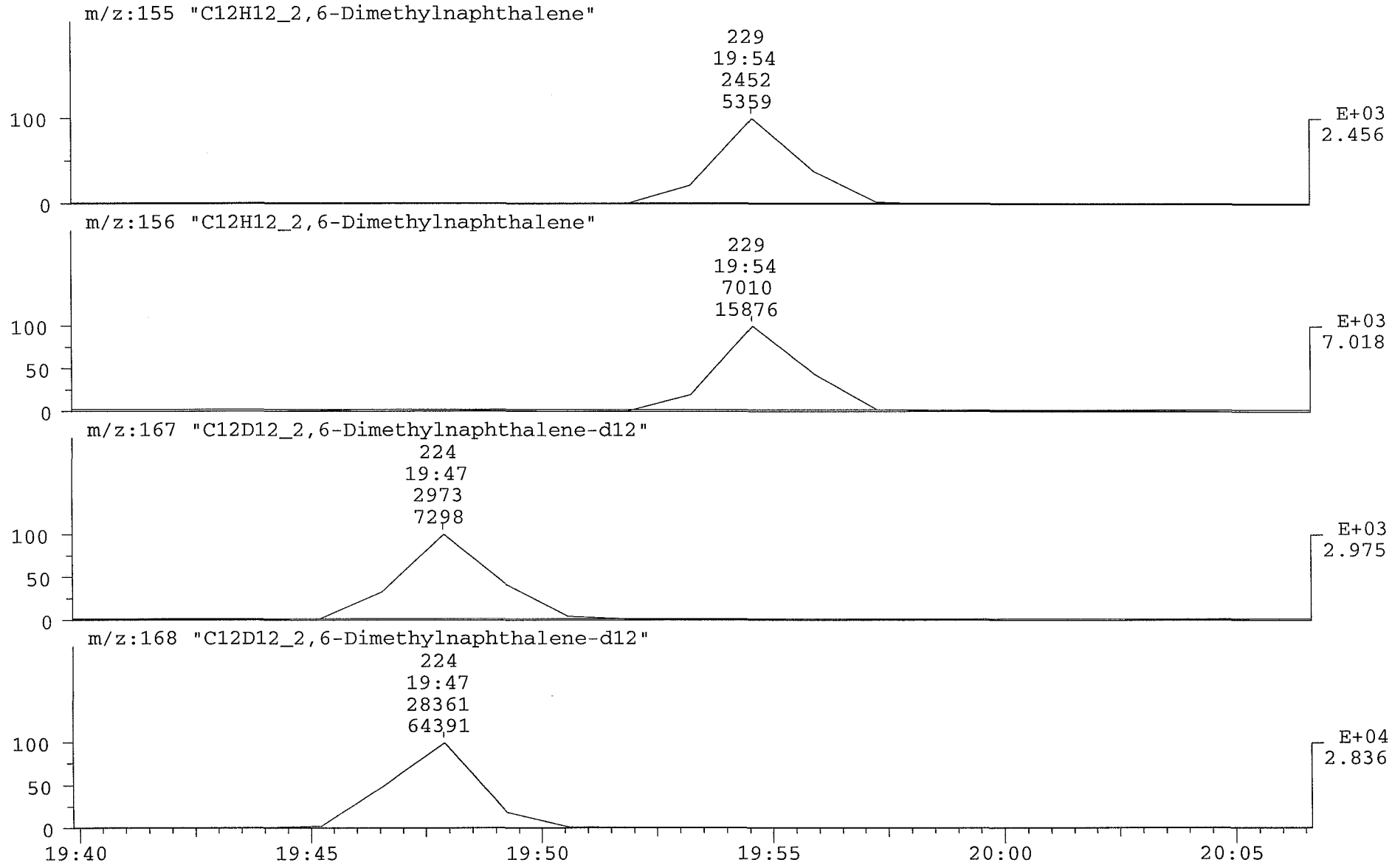
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



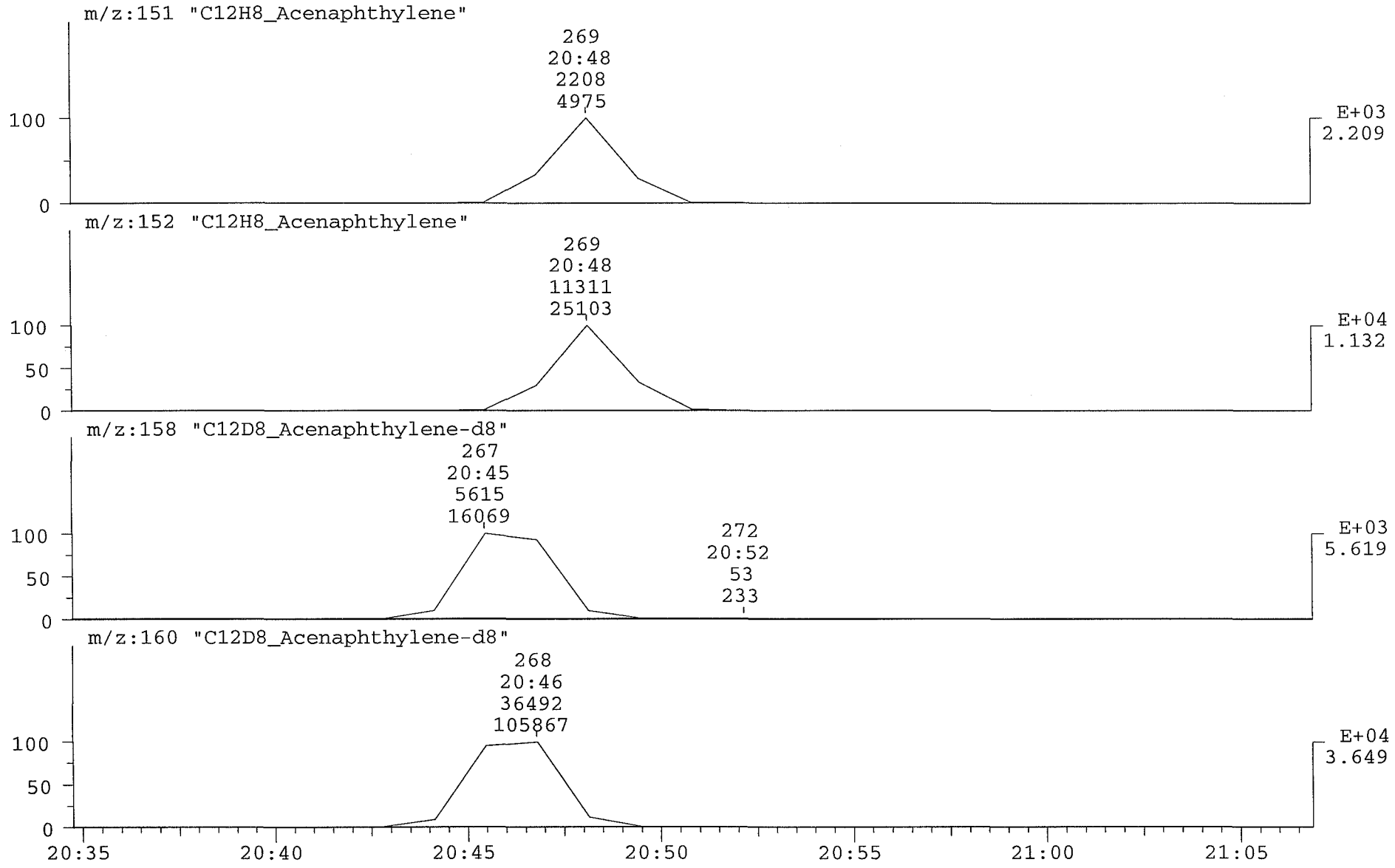
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



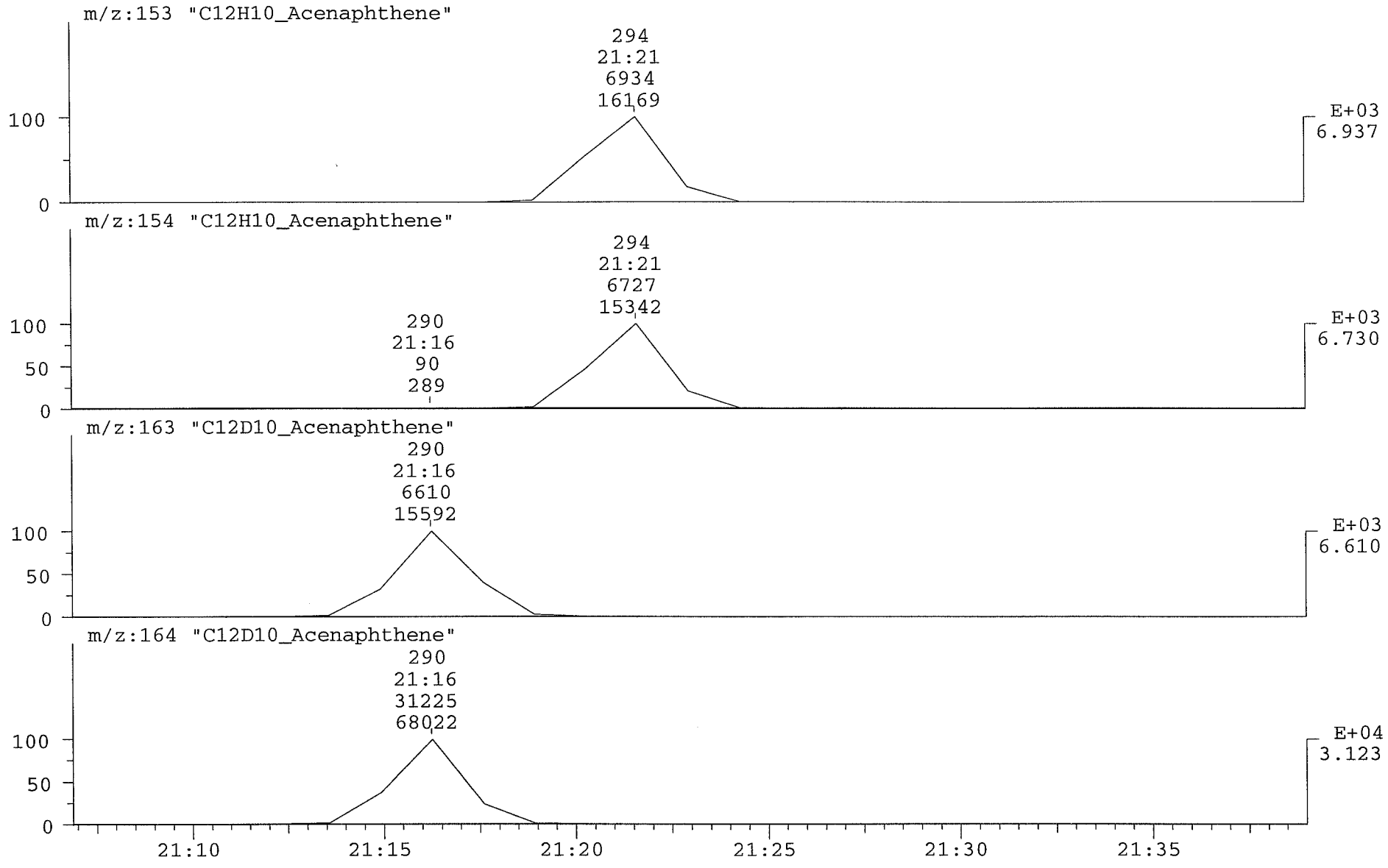
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



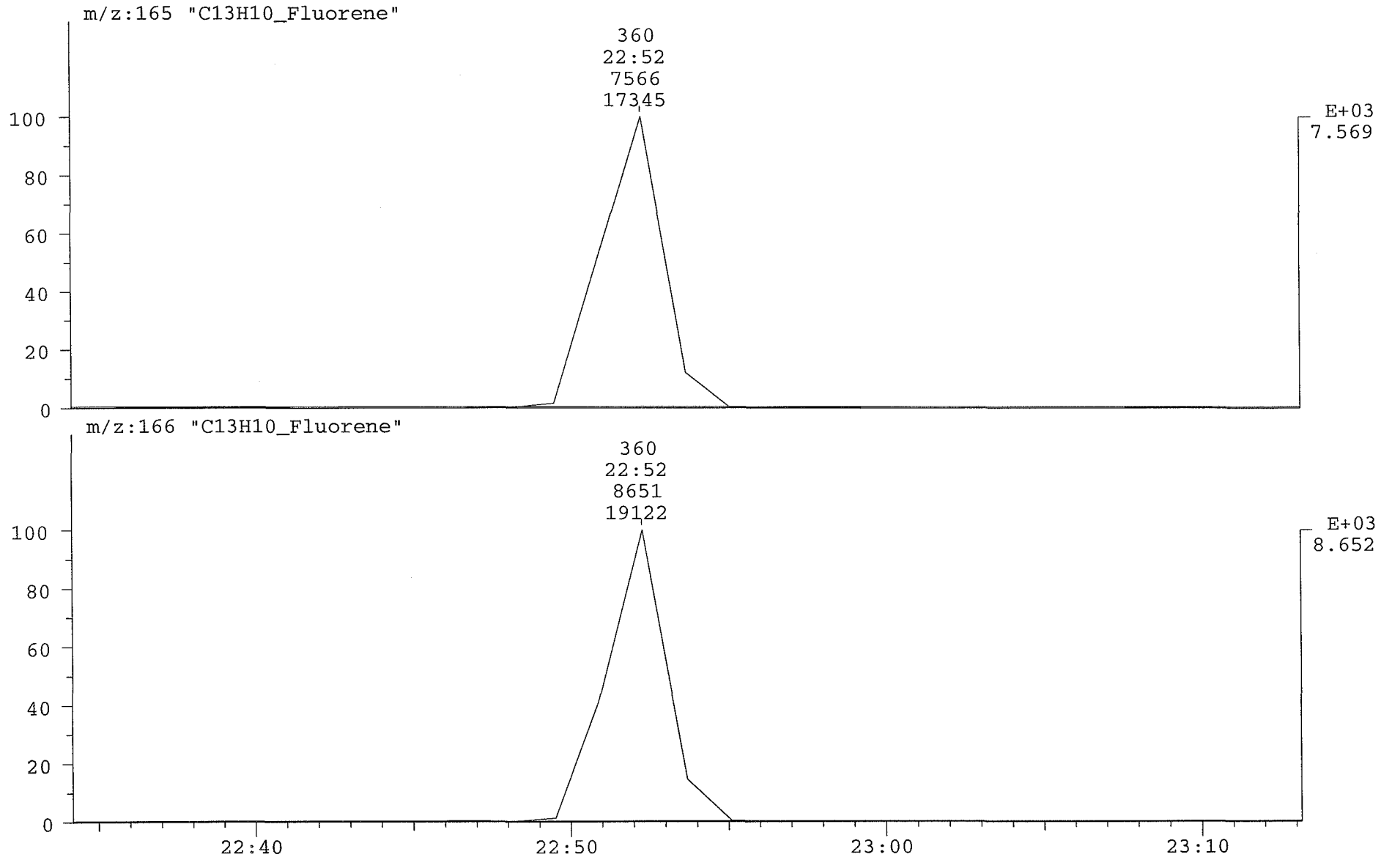
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

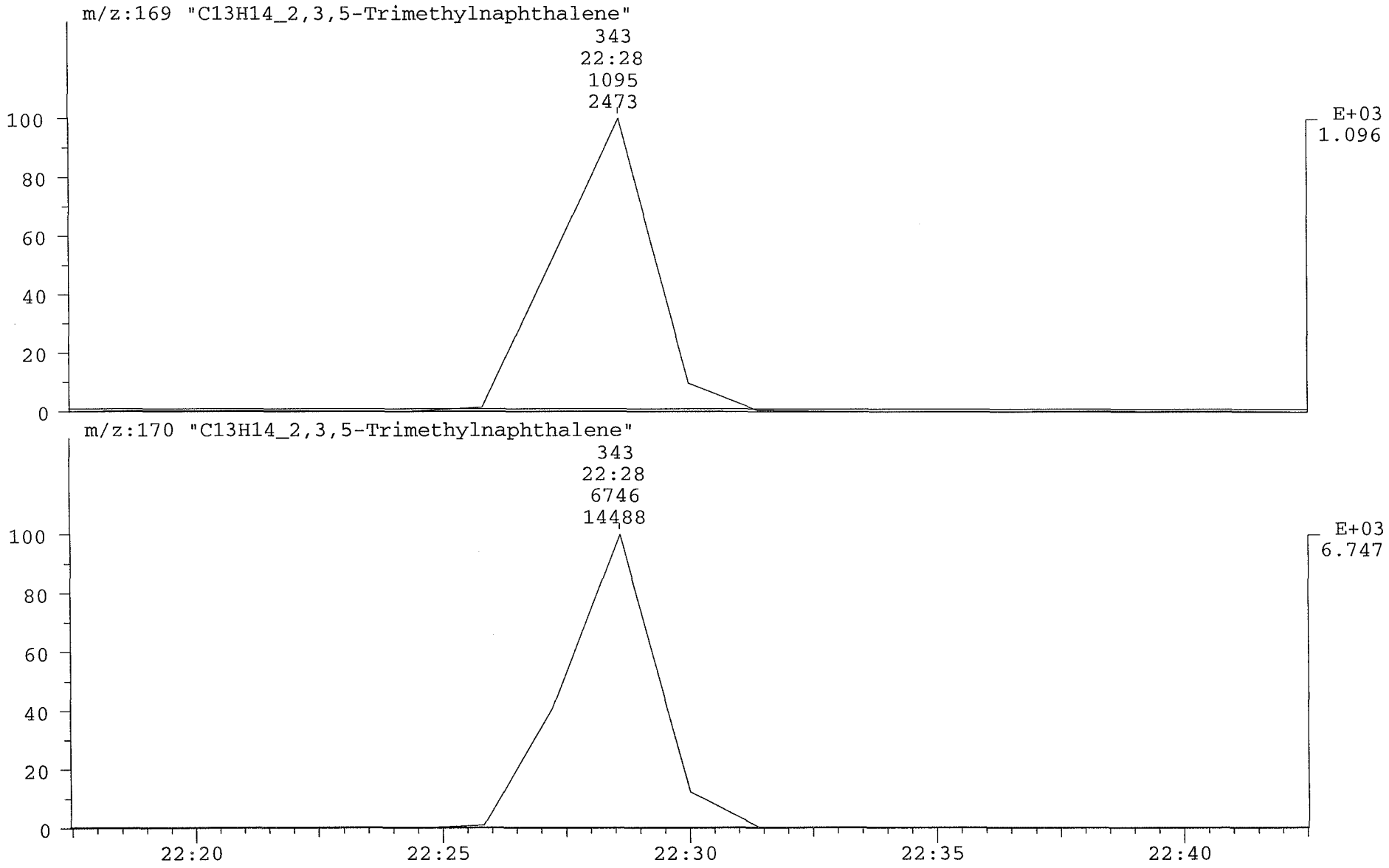


CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

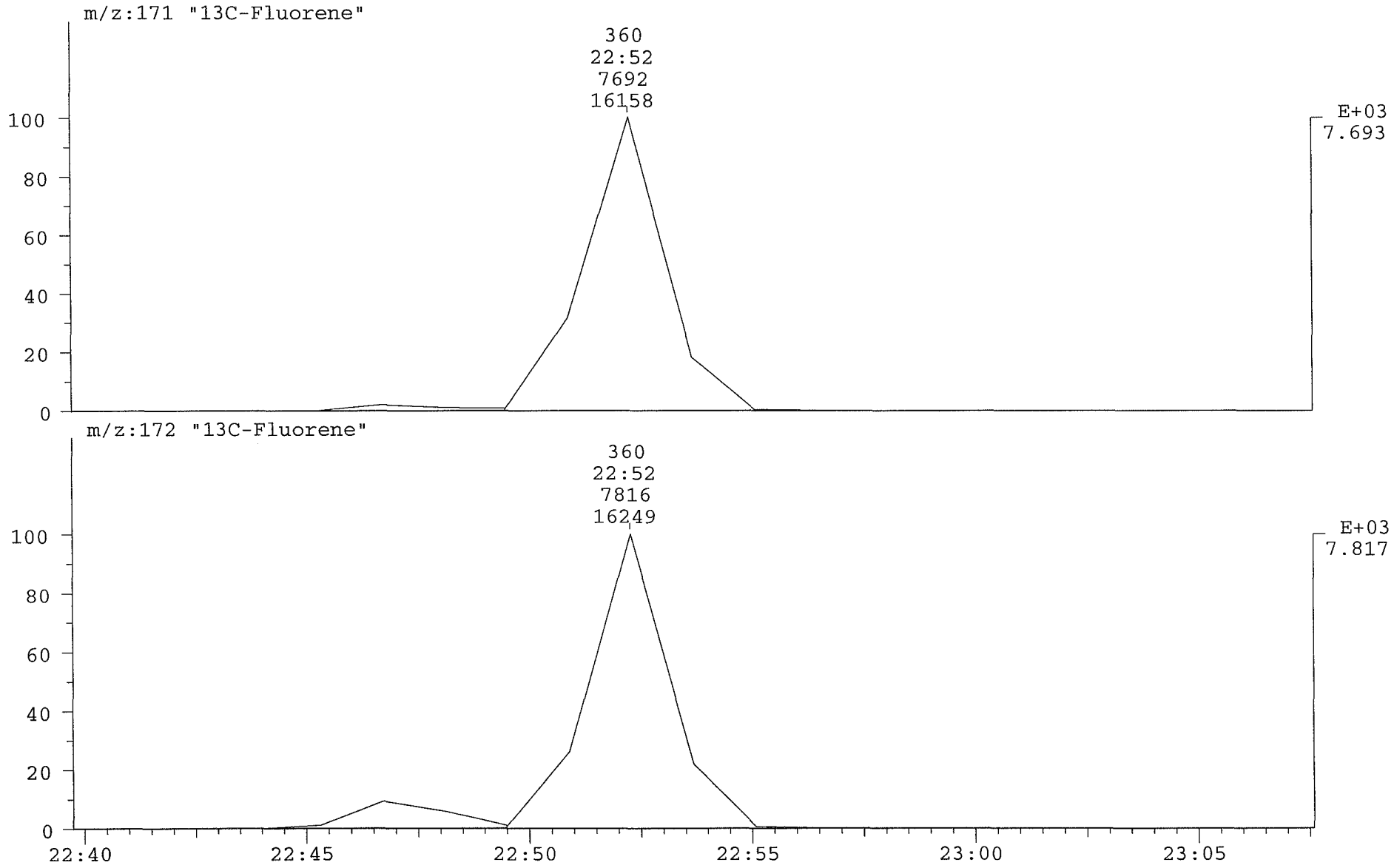


4206

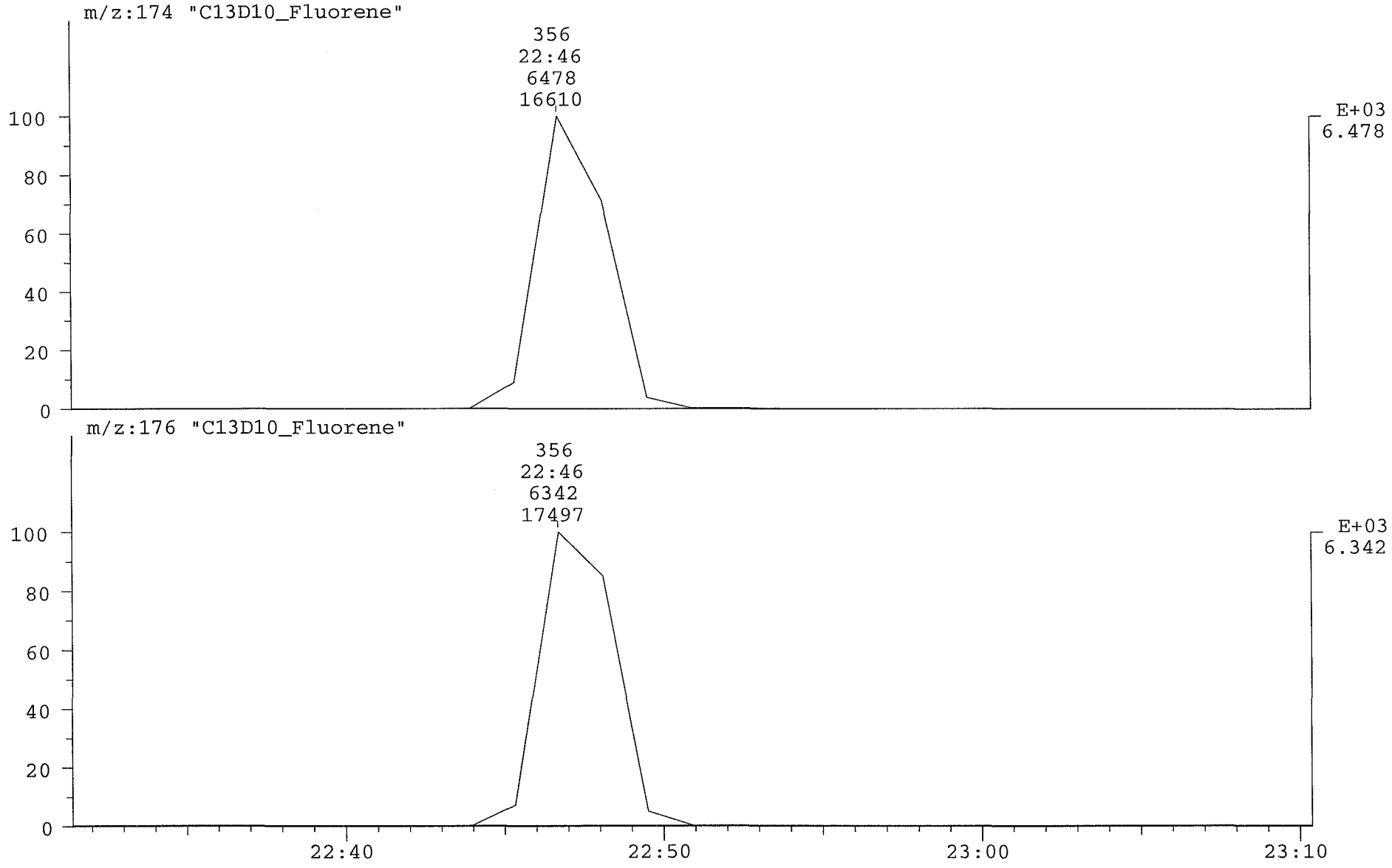
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



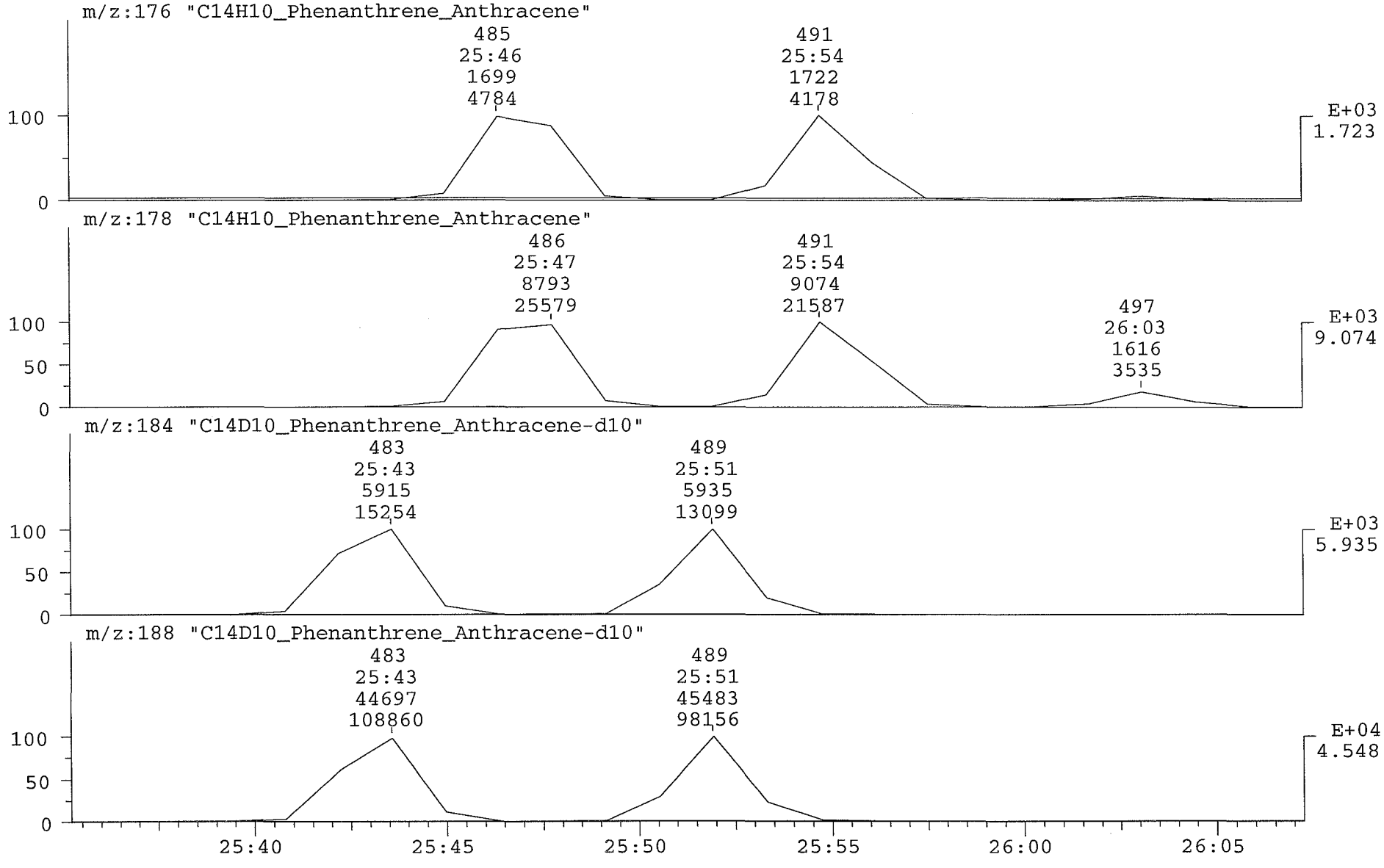
```
CHRO:  y060426i2                              26-APR-06   Elapse:   49:19      1735
Samp:  WO=y060426i2 Meth=YA1 Dil=1                        Start :   20:28:00   1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   ICAL
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   351 > 371            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



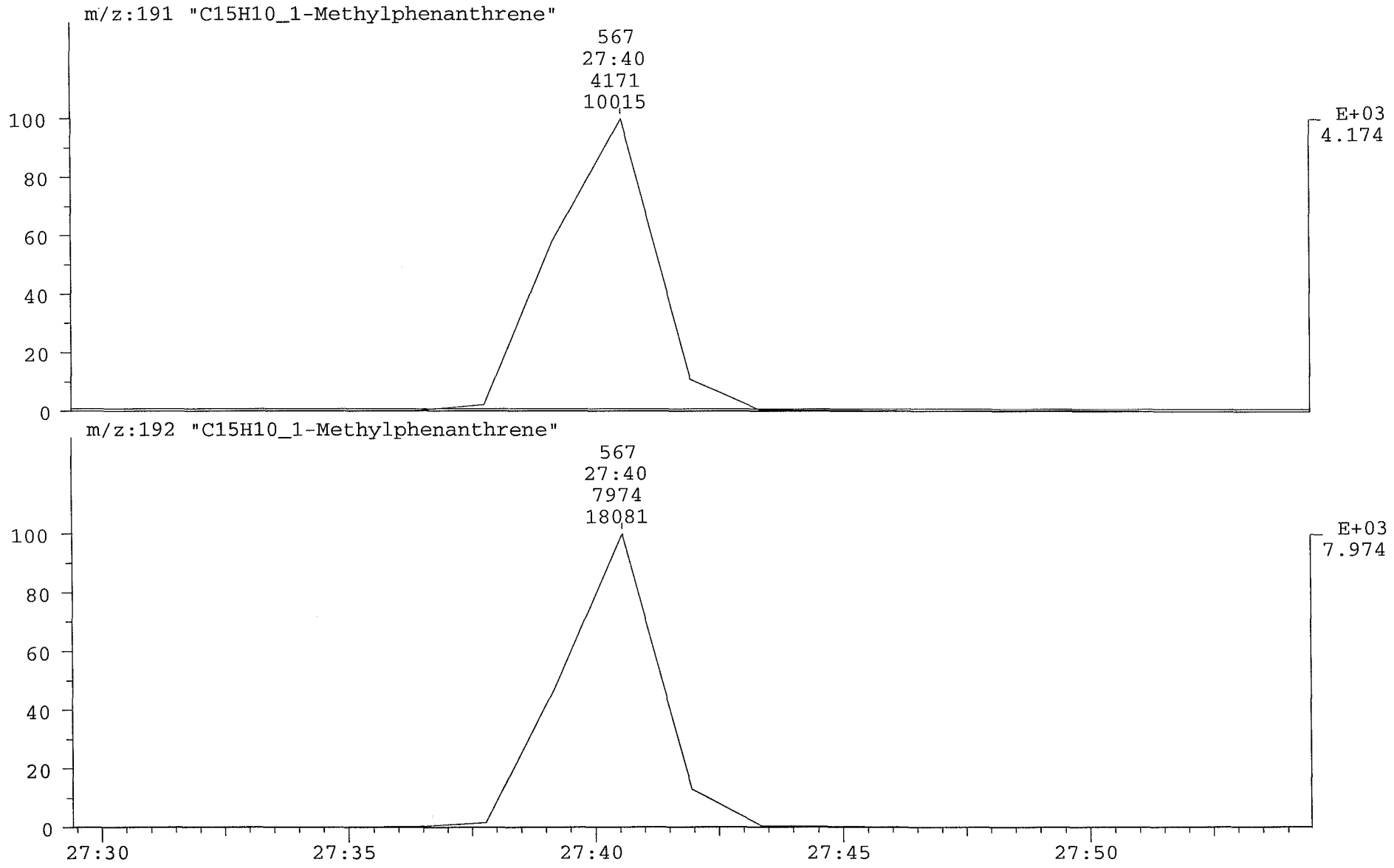
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CHRO:  y060426i2                              26-APR-06   Elapse:  49:19      1735
Samp:  WO=y060426i2 Meth=YA1 Dil=1                        Start :  20:28:00   1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :  ICAL
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   345 > 373            Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1              Label :  -2, 3.0
Disp:  Height  Area
```



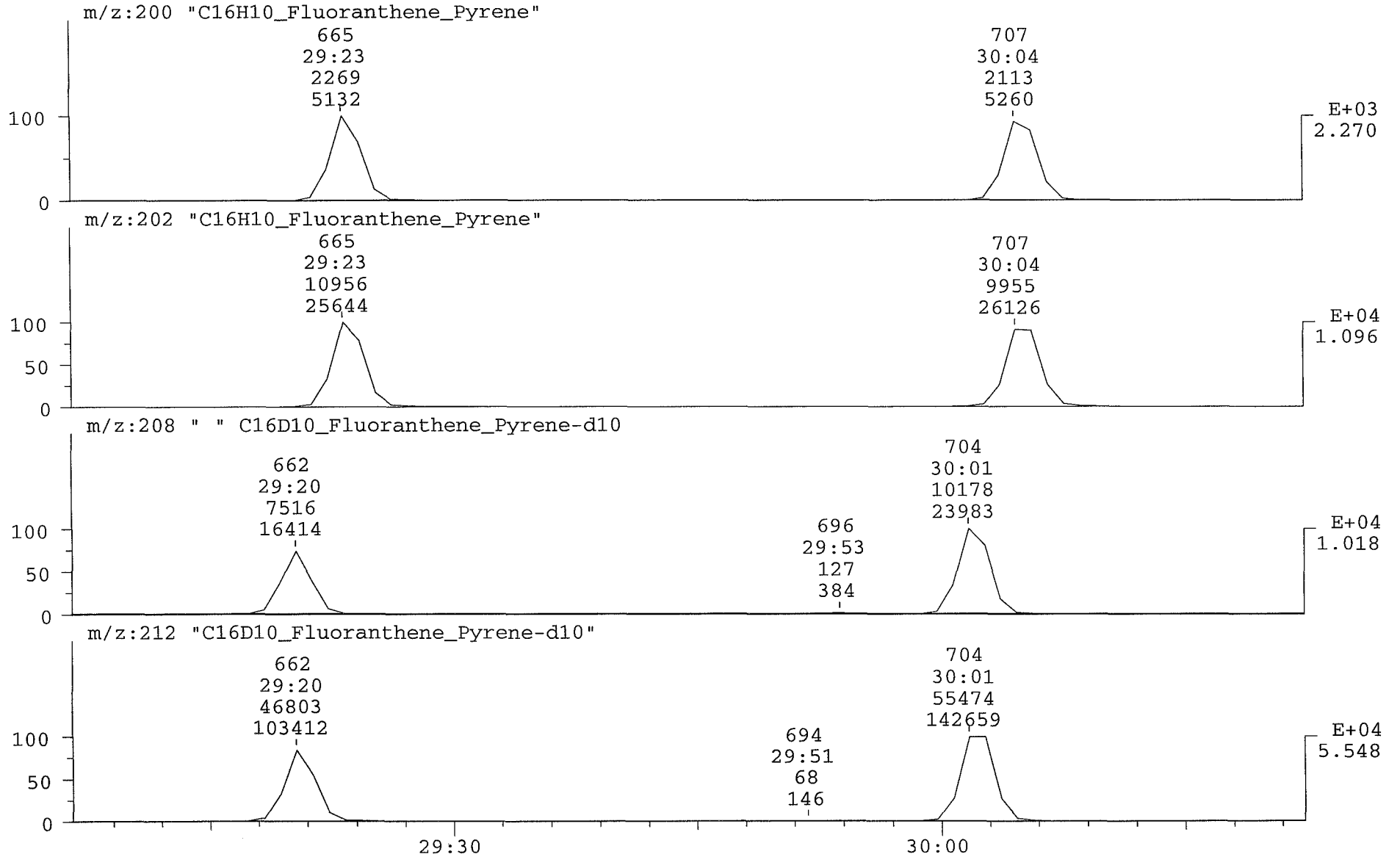
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

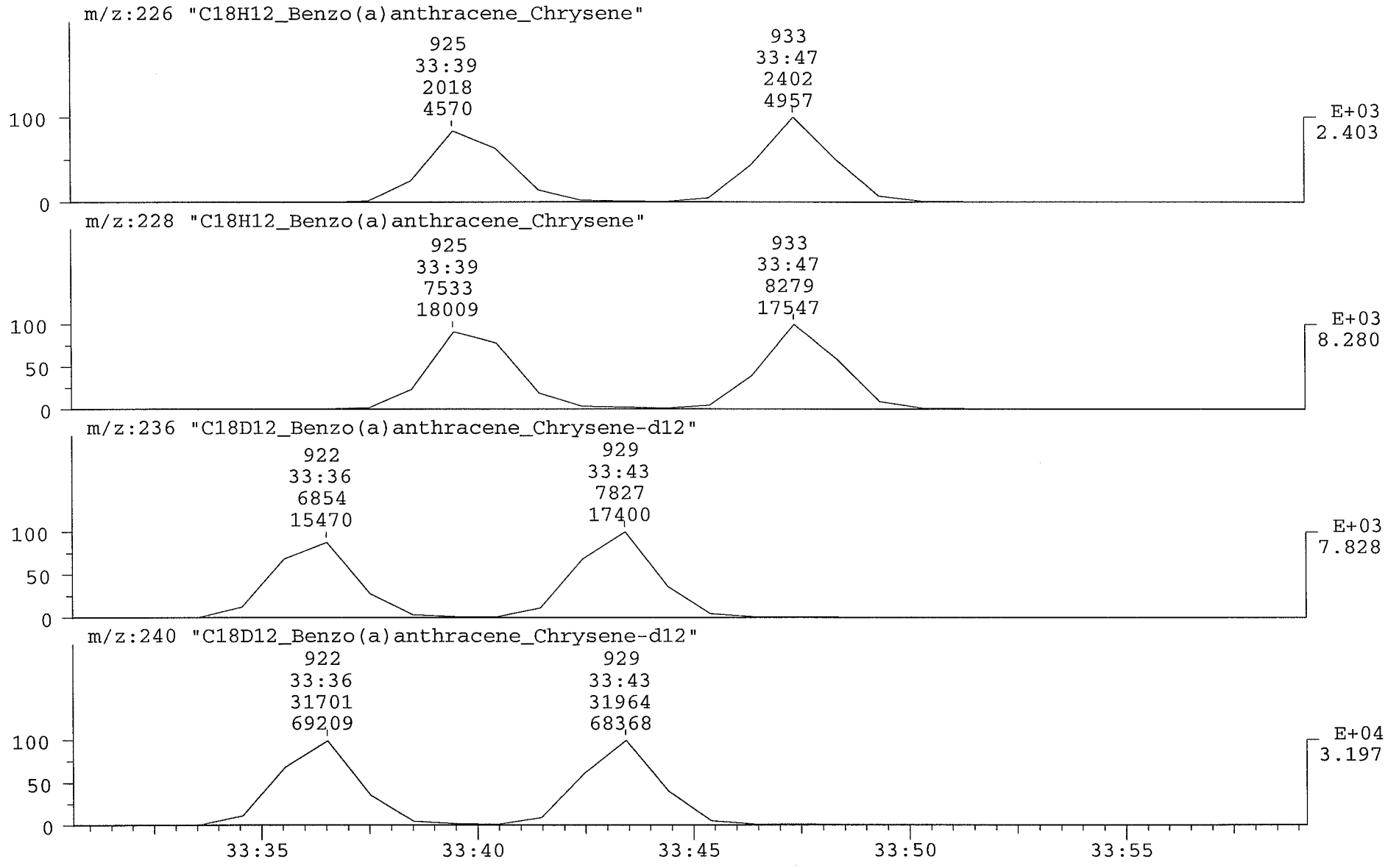


CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

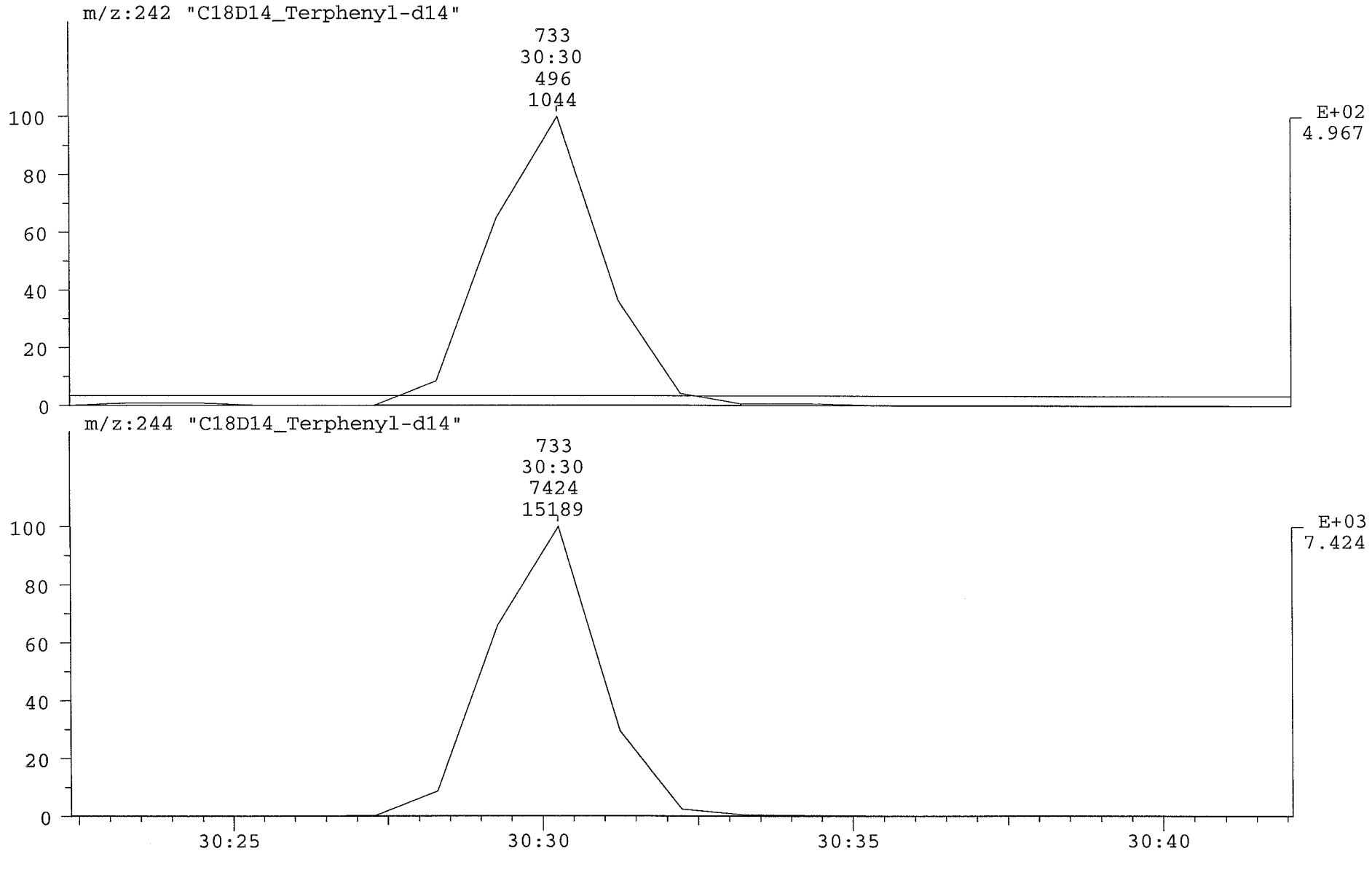


4212

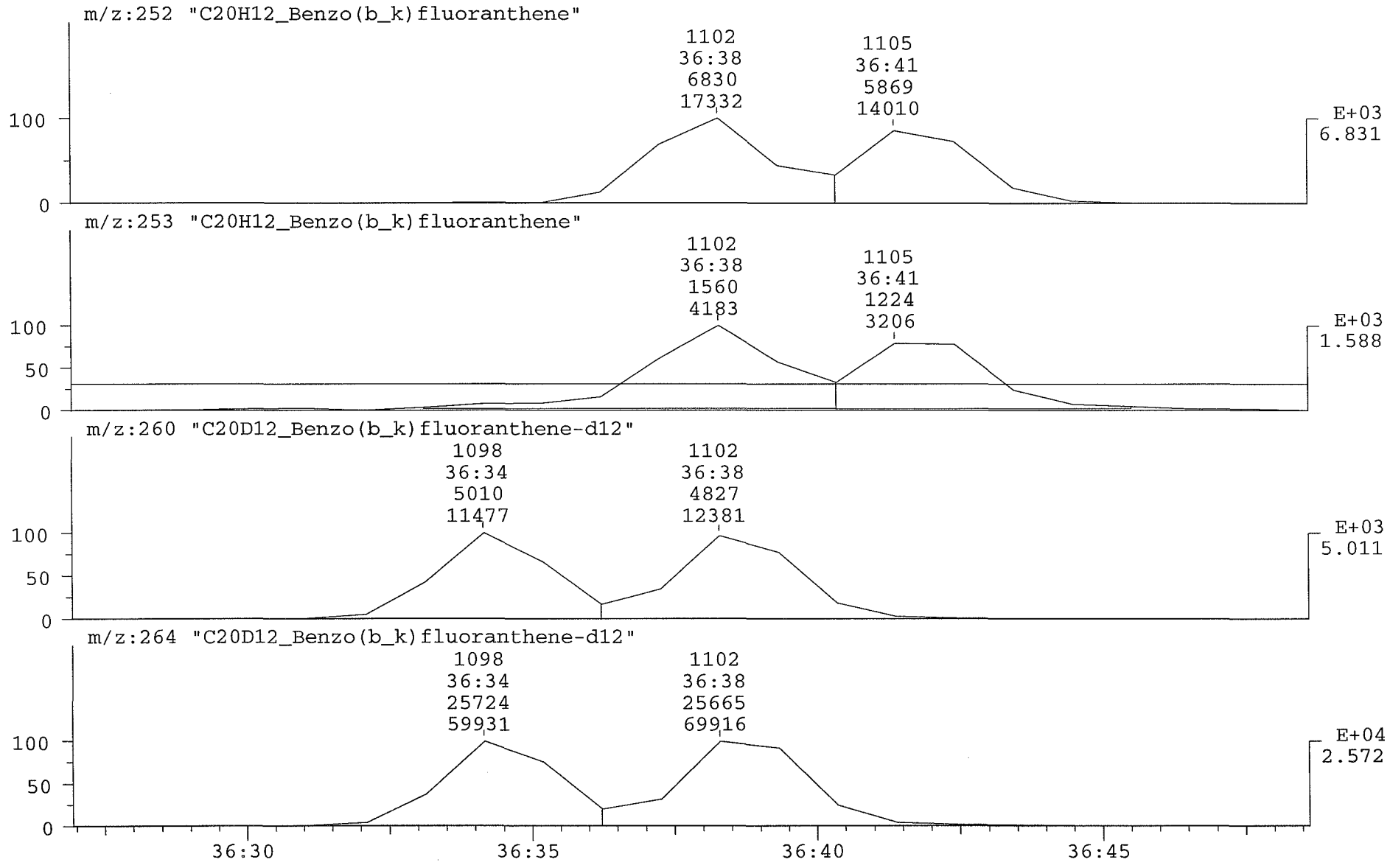
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



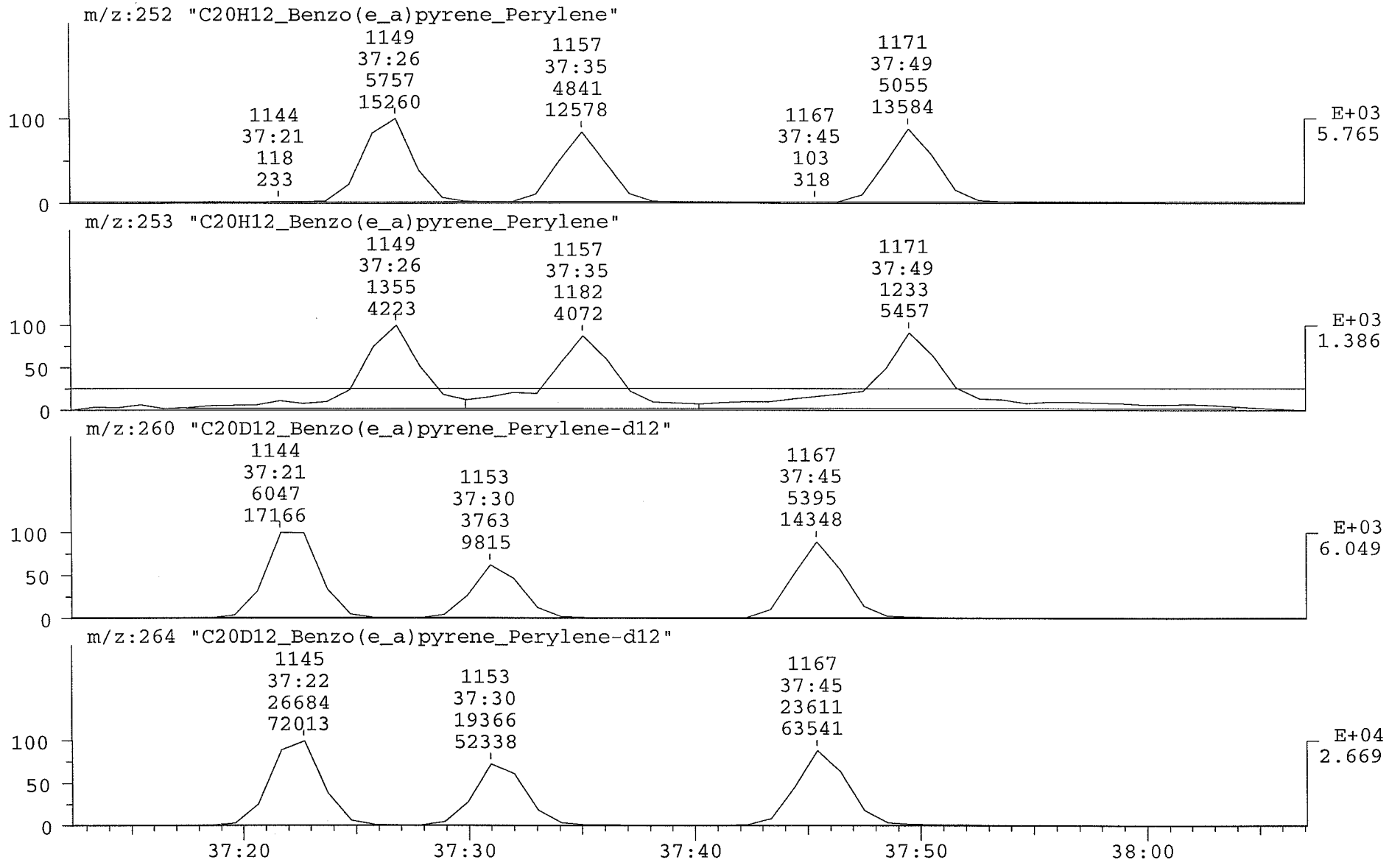
CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 725 > 745 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

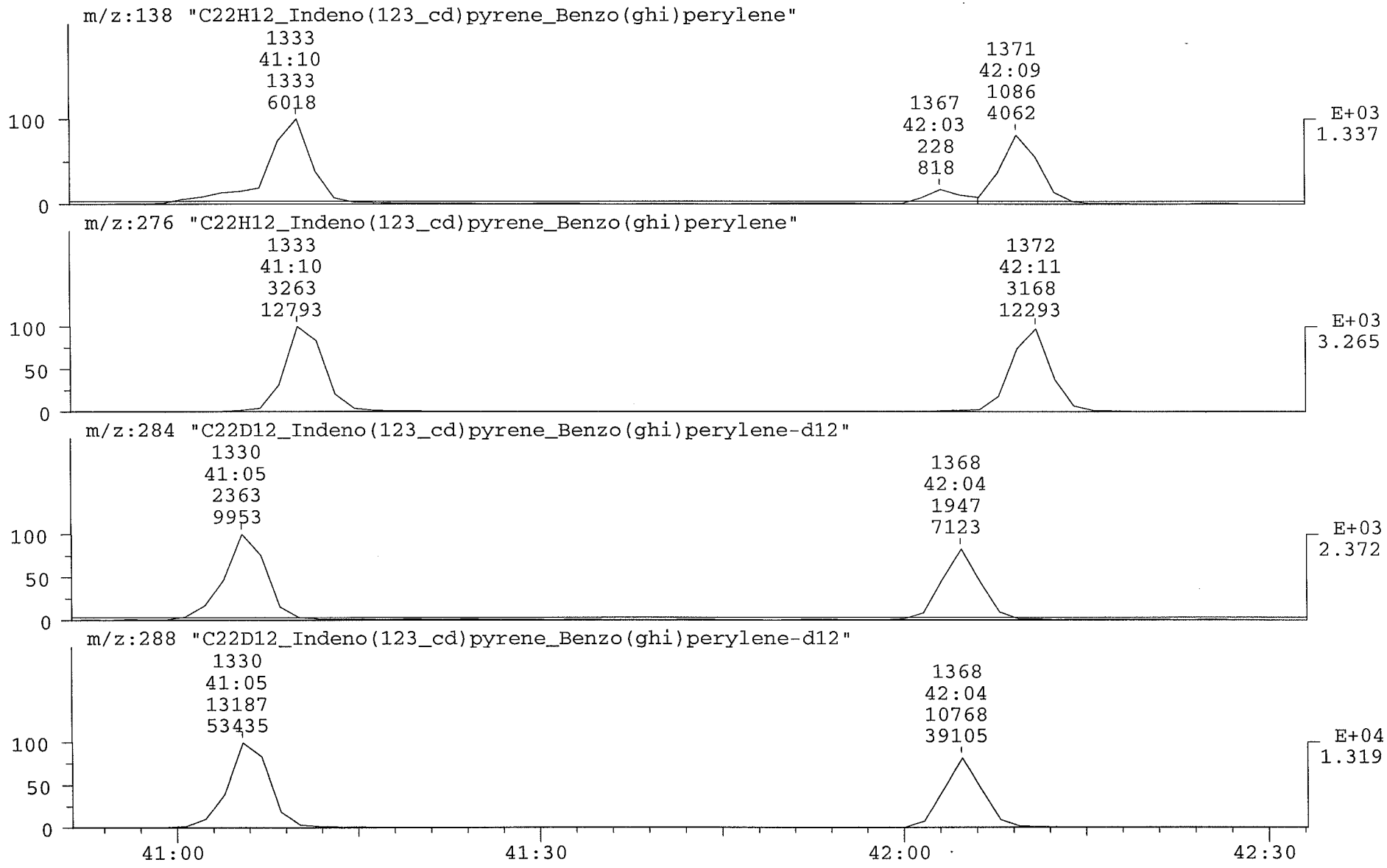


CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

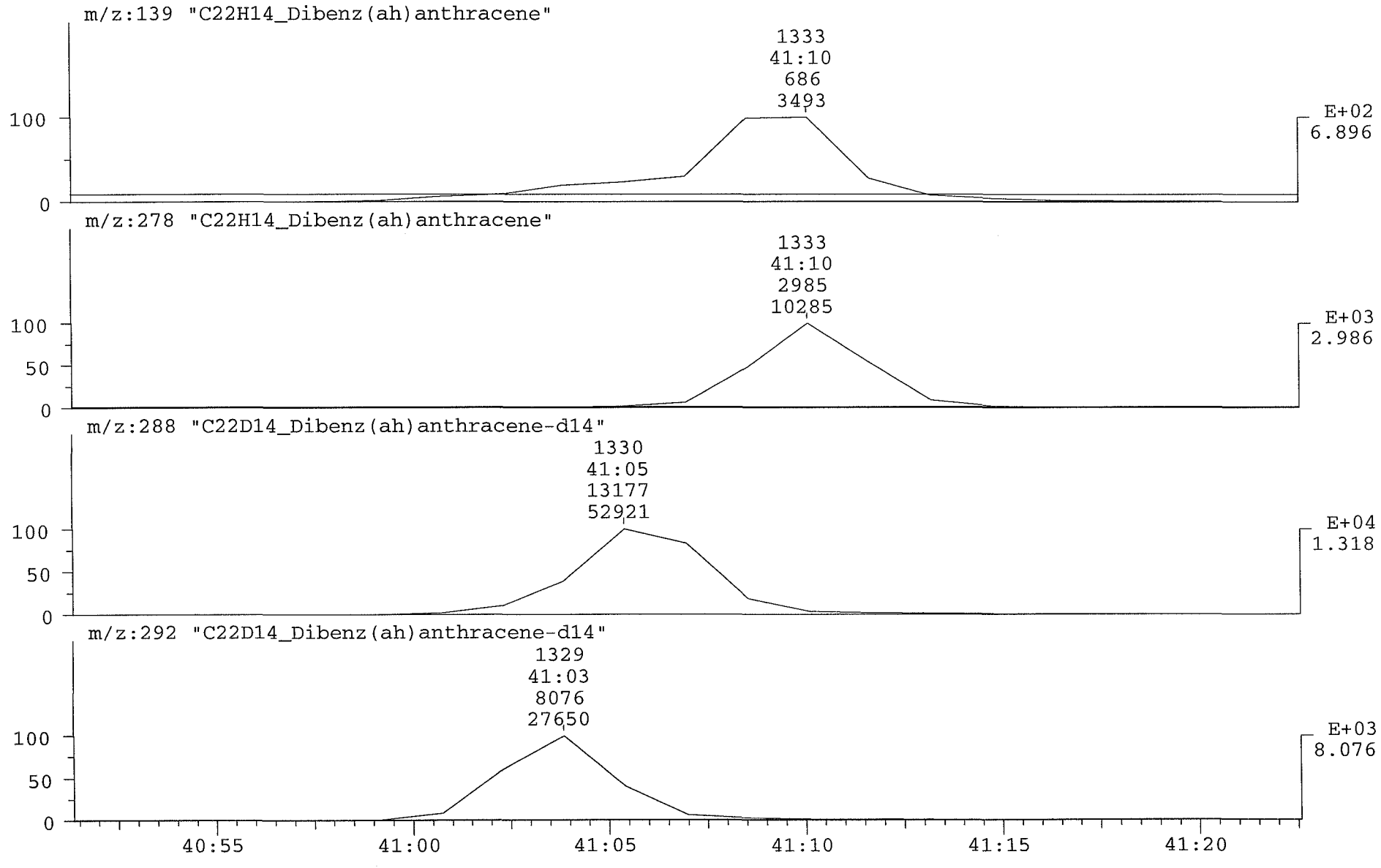


4216

CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i2 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i2 Meth=YA1 Dil=1 Start : 20:28:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: Y60426I2.D
Date Acquired: 26 Apr 2006   8:28 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: Y060426I2
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  3
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Wed Apr 26 21:33:01 2006
d:\cdffiles\Y60426I2.CDF Translated at Wed Apr 26 21:33:01 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 26 15:59:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60426i2.dat
NetCDF File (input): /usr/users/hp/data/y60426i2.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 26 15:59:02 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I3	Prep Batch		Lot No	
Data File	/20060426i/y06042 6i3.d	Prep Date		SDG No	
Analysis ID	90316	Prep Exp Date		Date Received	
Analysis Date	4/26/2006	Matrix	UNKNOWN	Date Sampled	
Analysis Time	21:18	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:57	90963	29901	1.000	500.0	855.590880	171.12	855.590880	0.359
Naphthalene	16:00	56488	18222	1.000	250.0	310.499874	124.20	310.499874	0.293
~~1,4-Dichlorobenzene-d4~~					~~500.0~~			~~ND~~	~~0.000000~~
~~1,4-Dichlorobenzene~~				~~1.000~~	~~250.0~~			~~ND~~	~~0.000000~~
2-Methylnaphthalene	18:03	38814	14978	1.000	250.0	319.878029	127.95	319.878029	0.319
2-Methylnaphthalene-d10	17:58	60670	23505	1.000	500.0	570.657286	114.13	570.657286	0.308
1-Methylnaphthalene	18:22	36318	12897	1.000	250.0	341.726416	136.69	341.726416	0.345
1-Methylnaphthalene-d10	18:17	53139	21745	1.000	500.0	499.821287	99.96	499.821287	0.308
~~1-Chloronaphthalene~~				~~1.000~~	~~250.0~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene~~				~~1.000~~	~~250.0~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene-d7~~					~~500.0~~			~~ND~~	~~0.000000~~
Biphenyl	19:27	47749	17776	1.000	250.0	393.514093	157.41	393.514093	1.22
2,6-Dimethylnaphthalene	19:54	34860	14678	1.000	250.0	313.314519	125.33	313.314519	1.83
2,6-Dimethylnaphthalene-d1	19:47	55631	25277	1.000	500.0	523.260845	104.65	523.260845	0.256
~~C2-Alkylnaphthalenes~~				~~1.000~~		~~313.314519~~		~~313.314519~~	~~1.55~~
Acenaphthylene	20:48	55489	24361	1.000	250.0	306.484397	122.59	306.484397	0.216
Acenaphthylene-d8	20:46	90525	34648	1.000	500.0	851.471086	170.29	851.471086	0.205
Acenaphthene-d10	21:16	53158	24370	1.000	500.0	500.000000	100.00	500.000000	0.308
Acenaphthene	21:21	33646	15372	1.000	250.0	185.838166	74.34	185.838166	0.830
2,3,5-Trimethylnaphthalene	22:28	31783	14852	1.000	250.0	285.659075	114.26	285.659075	0.198
~~C3-Alkylnaphthalenes~~				~~1.000~~		~~285.659075~~		~~285.659075~~	~~0.167~~
Fluorene d-10	22:46	39242	13560	1.000	250.0	206.434711	82.57	206.434711	0.0629
Fluorene-C13	22:52	37007	17596	1.000	250.0	194.677370	77.87	194.677370	0.0943
Fluorene	22:52	42788	19827	1.000	250.0	225.088640	90.04	225.088640	0.189
Phenanthrene-d10	25:43	95047	39766	1.000	500.0	404.675738	80.94	404.675738	0.108
Phenanthrene	25:47	56978	19885	1.000	250.0	299.735920	119.89	299.735920	0.126
Anthracene-d10	25:52	82796	38663	1.000	500.0	352.515413	70.50	352.515413	0.108
Anthracene	25:54	49562	20938	1.000	250.0	260.723642	104.29	260.723642	0.126
1-Methylphenanthrene	27:40	40686	18022	1.000	250.0	214.030953	85.61	214.030953	0.189
Fluoranthene-d10	29:20	92413	42069	1.000	500.0	393.461119	78.69	393.461119	0.162
Fluoranthene	29:23	59119	25475	1.000	250.0	319.863006	127.95	319.863006	0.119
Pyrene-d10	30:01	117436	46253	1.000	500.0	500.000000	100.00	500.000000	0.162
Pyrene	30:04	59746	23369	1.000	250.0	323.255386	129.30	323.255386	0.119
Terphenyl-d14	30:30	35686	17637	1.000	250.0	193.078896	77.23	193.078896	0.0891
Benzo(a)Anthracene-d12	33:36	62829	28878	1.000	500.0	267.503151	53.50	267.503151	0.162
Benzo(a)anthracene	33:39	42054	17375	1.000	250.0	334.670296	133.87	334.670296	0.173
Chrysene-d12	33:43	63360	29947	1.000	500.0	269.763957	53.95	269.763957	0.162
Chrysene	33:47	41891	20054	1.000	250.0	330.579230	132.23	330.579230	0.167
Benzo(b)Fluoranthene-d12	36:34	55461	23920	1.000	500.0	456.086249	91.22	456.086249	0.564
Benzo(k)Fluoranthene-d12	36:38	64362	24140	1.000	500.0	529.284058	105.86	529.284058	0.564
Benzo(b)fluoranthene	36:38	40525	15802	1.000	250.0	365.346820	146.14	365.346820	0.836
Benzo(k)fluoranthene	36:41	33252	14206	1.000	250.0	258.320127	103.33	258.320127	0.829
Benzo(e)pyrene-d12	37:22	60801	22164	1.000	500.0	500.000000	100.00	500.000000	0.564
Benzo(e)pyrene	37:26	35985	13156	1.000	250.0	373.203211	149.28	373.203211	1.13
Benzo(a)Pyrene-d12	37:31	48211	17629	1.000	500.0	396.465519	79.29	396.465519	0.564
Benzo(a)pyrene	37:35	29934	11468	1.000	250.0	310.447823	124.18	310.447823	1.13
Perylene-d12	37:45	58527	22201	1.000	500.0	481.299650	96.26	481.299650	0.564
Perylene	37:49	32678	12130	1.000	250.0	279.170297	111.67	279.170297	0.901
~~3-Methylcholanthrene~~				~~1.000~~	~~250.0~~			~~ND~~	~~0.957~~

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I3	**Prep Batch**		**Lot No**	
Data File	/20060426i/y060426i3.d	**Prep Date**		**SDG No**	
Analysis ID	90316	**Prep Exp Date**		**Date Received**	
Analysis Date	4/26/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	21:18	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:03	25643	7353	1.000	500.0	210.876466	42.18	210.876466	0.338
Indeno(1,2,3-cd)pyrene-d12	41:05	49294	12037	1.000	500.0	405.371622	81.07	405.371622	0.508
Indeno(1,2,3-cd)pyrene	41:10	30134	7625	1.000	250.0	305.655861	122.26	305.655861	0.623
Dibenz(a,h)anthracene	41:10	24443	7215	1.000	250.0	476.601802	190.64	476.601802	1.19
Benzo(ghi)Perylene-d12	42:04	36067	9801	1.000	500.0	296.598740	59.32	296.598740	0.508
Benzo(ghi)perylene	42:11	28696	7227	1.000	250.0	397.815177	159.13	397.815177	0.765
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	250.0			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I3	Prep Batch		Lot No	
Data File	/20060426i/y060426i3.d	Prep Date		SDG No	
Analysis ID	90316	Prep Exp Date		Date Received	
Analysis Date	04/26/06 21:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	18		7				
	Naphthalene	16:00	00:00	0	56488		18222			ABV	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	18		7				
	Naphthalene-d8	15:57	00:00	0	90963		29901			ABV	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene	18:03	00:00	0	38814		14978			AVB	
	1-Methylnaphthalene	18:22	00:00	0	36318		12897			AVB	
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	00:00	0	60670		23505			ABB	
	1-Methylnaphthalene-d10	18:17	00:00	0	53139		21745			ABB	
	Acenaphthylene	20:48	00:00	0	55489		24361			ABB	M
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	58		23				
	Biphenyl	19:27	00:00	0	47749		17776			ABB	
	Acenaphthene	21:21	00:00	0	33646		15372			ABB	M
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	93		37				
	2,6-Dimethylnaphthalene	19:54	00:00	0	34860		14678			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:46	00:00	0	90525		34648			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	10		4				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	15		6				
	Acenaphthene-d10	21:16	00:00	0	53158		24370			ABB	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluorene	22:52	00:00	0	42788		19827			ABB	M
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	13		5				
	2,6-Dimethylnaphthalene	19:47	00:00	0	55631		25277			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	10		4				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	10		4				
	2,3,5-Trimethylnaphthal	22:28	00:00	0	31783		14852			ABB	M
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	8		3				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I3	Prep Batch		Lot No	
Data File	/20060426i/y060426i3.d	Prep Date		SDG No	
Analysis ID	90316	Prep Exp Date		Date Received	
Analysis Date	04/26/06 21:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					**172.0000**		**172.0000**				
	Fluorene-C13	22:52	00:00	0	37007		17596			AVB	M
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	5		2				
	Fluorene d-10	22:46	00:00	0	39242		13560			ABB	M
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene	25:47	00:00	0	56978		19885			ABV	M
	Anthracene	25:54	00:00	0	49562		20938			AVV	M
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene-d10	25:43	00:00	0	95047		39766			ABV	M
	Anthracene-d10	25:52	00:00	0	82796		38663			AVB	M
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	15		6				
	1-Methylphenanthrene	27:40	00:00	0	40686		18022			ABB	M
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	10		4				
	Fluoranthene	29:23	00:00	0	59119		25475			ABV	M
	Pyrene	30:04	00:00	0	59746		23369			ABV	
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene-d10	29:20	00:00	0	92413		42069			ABV	
	Pyrene-d10	30:01	00:00	0	117436		46253			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	10		4				
	Benzo(a)anthracene	33:39	00:00	0	42054		17375			ABV	M
	Chrysene	33:47	00:00	0	41891		20054			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)Anthracene-d12	33:36	00:00	0	62829		28878			ABV	
	Chrysene-d12	33:43	00:00	0	63360		29947			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	8		3				
	Terphenyl-d14	30:30	00:00	0	35686		17637			ABB	
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	40		16				
	Benzo(b)fluoranthene	36:38	00:00	0	40525		15802			ABV	M
	Benzo(k)fluoranthene	36:41	00:00	0	33252		14206			AVB	M
	Benzo(e)pyrene	37:26	00:00	0	35985		13156			ABV	M
	Benzo(a)pyrene	37:35	00:00	0	29934		11468			AVV	M
	Perylene	37:49	00:00	0	32678		12130			AVB	M
264					**264.0000**		**264.0000**				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I3	Prep Batch		Lot No	
Data File	/20060426i/y060426i3.d	Prep Date		SDG No	
Analysis ID	90316	Prep Exp Date		Date Received	
Analysis Date	04/26/06 21:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

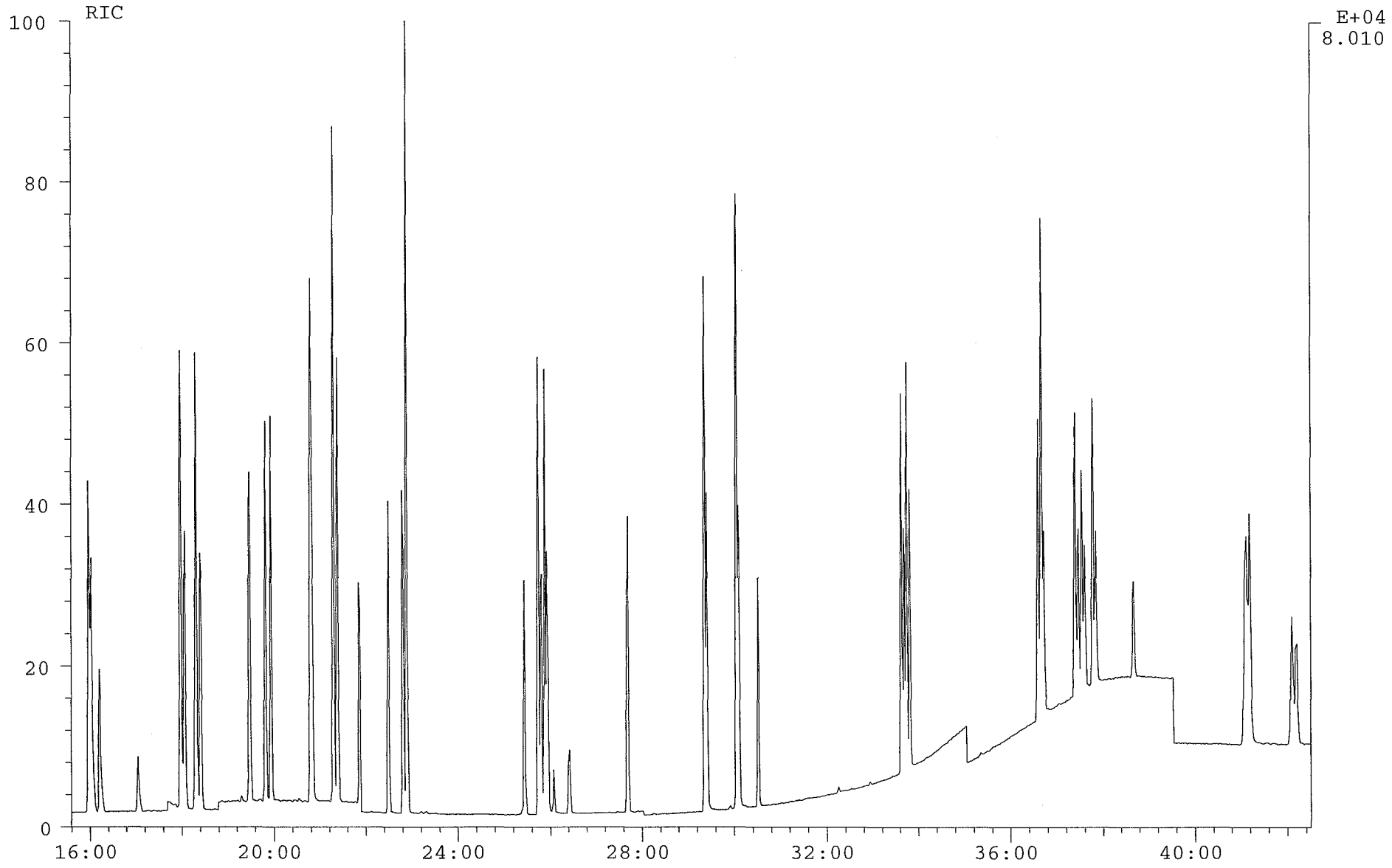
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	25		10				
	Benzo(b)Fluoranthene-d1	36:34	00:00	0	55461		23920			ABV	M
	Benzo(k)Fluoranthene-d1	36:38	00:00	0	64362		24140			AVB	M
	Benzo(e)pyrene-d12	37:22	00:00	0	60801		22164			ABV	M
	Benzo(a)Pyrene-d12	37:31	00:00	0	48211		17629			AVV	M
	Perylene-d12	37:45	00:00	0	58527		22201			AVV	M
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	43		17				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene	41:10	00:00	0	30134		7625			ABV	
	Benzo(ghi)perylene	42:11	00:00	0	28696		7227			ABB	M
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	18		7				
	Dibenz(a,h)anthracene	41:10	00:00	0	24443		7215			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	23		9				
	Indeno(1,2,3-cd)pyrene-	41:05	00:00	0	49294		12037			ABV	
	Benzo(ghi)Perylene-d12	42:04	00:00	0	36067		9801			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	15		6				
	Dibenz(ah)Anthracene-d1	41:03	00:00	0	25643		7353			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	10		4				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	10		4				

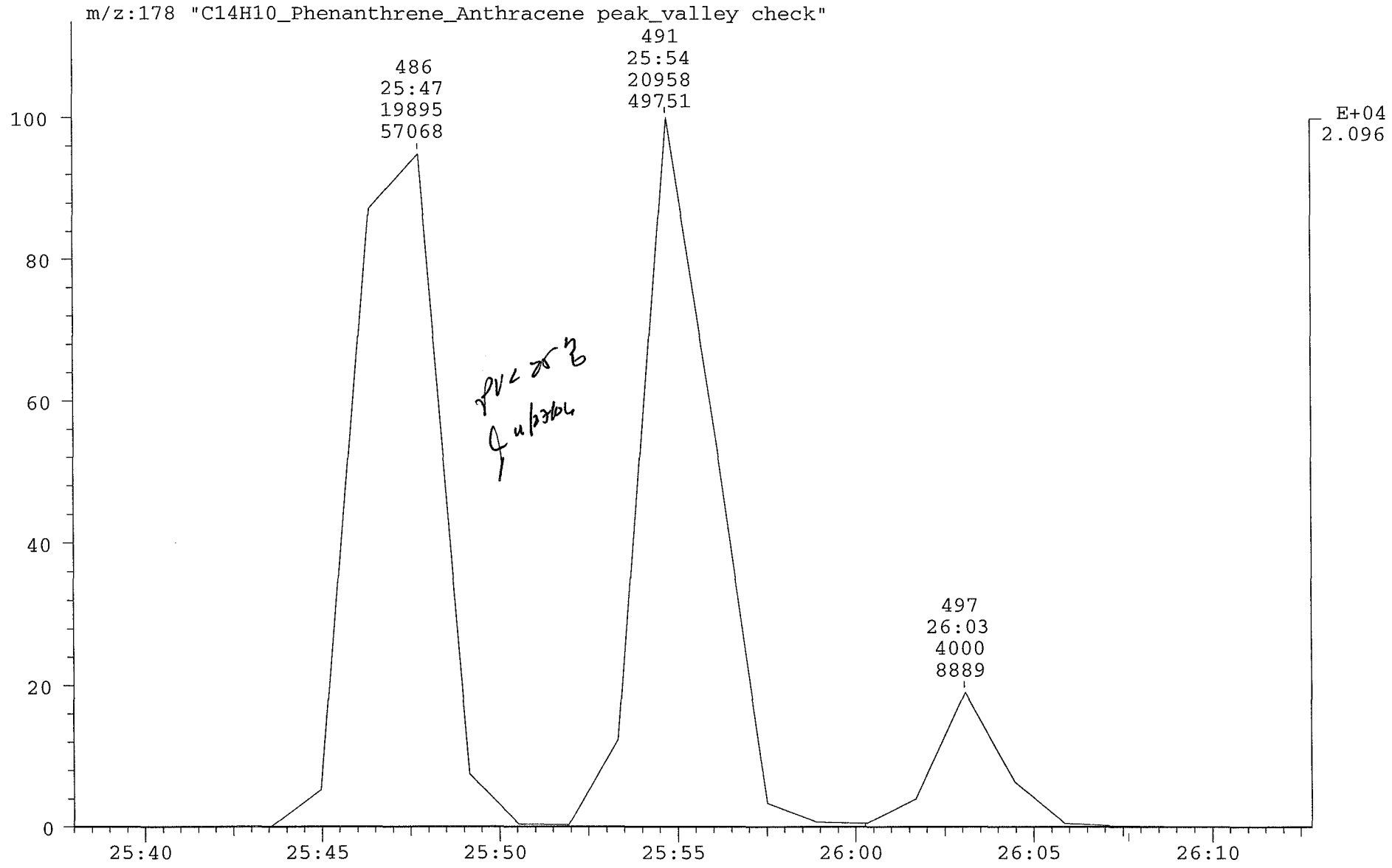
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Inst/Calc: J 4/27/06
QC VMK 4/27/06

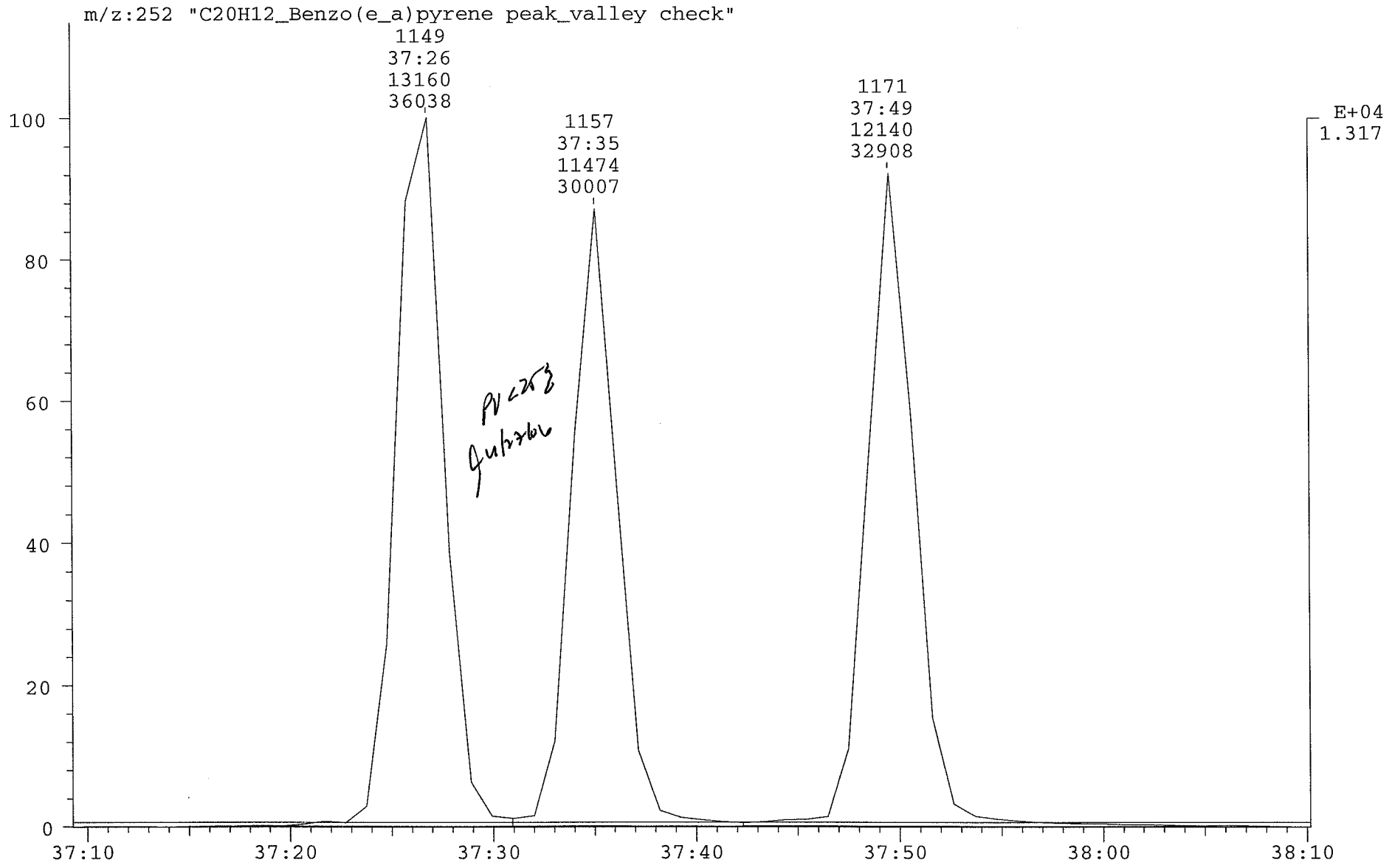
CHRO: y060426i3 26-APR-06 Elapse: 15:36.1 1
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1 > 1384 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area



CHRO: y060426i3 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 479 > 504 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

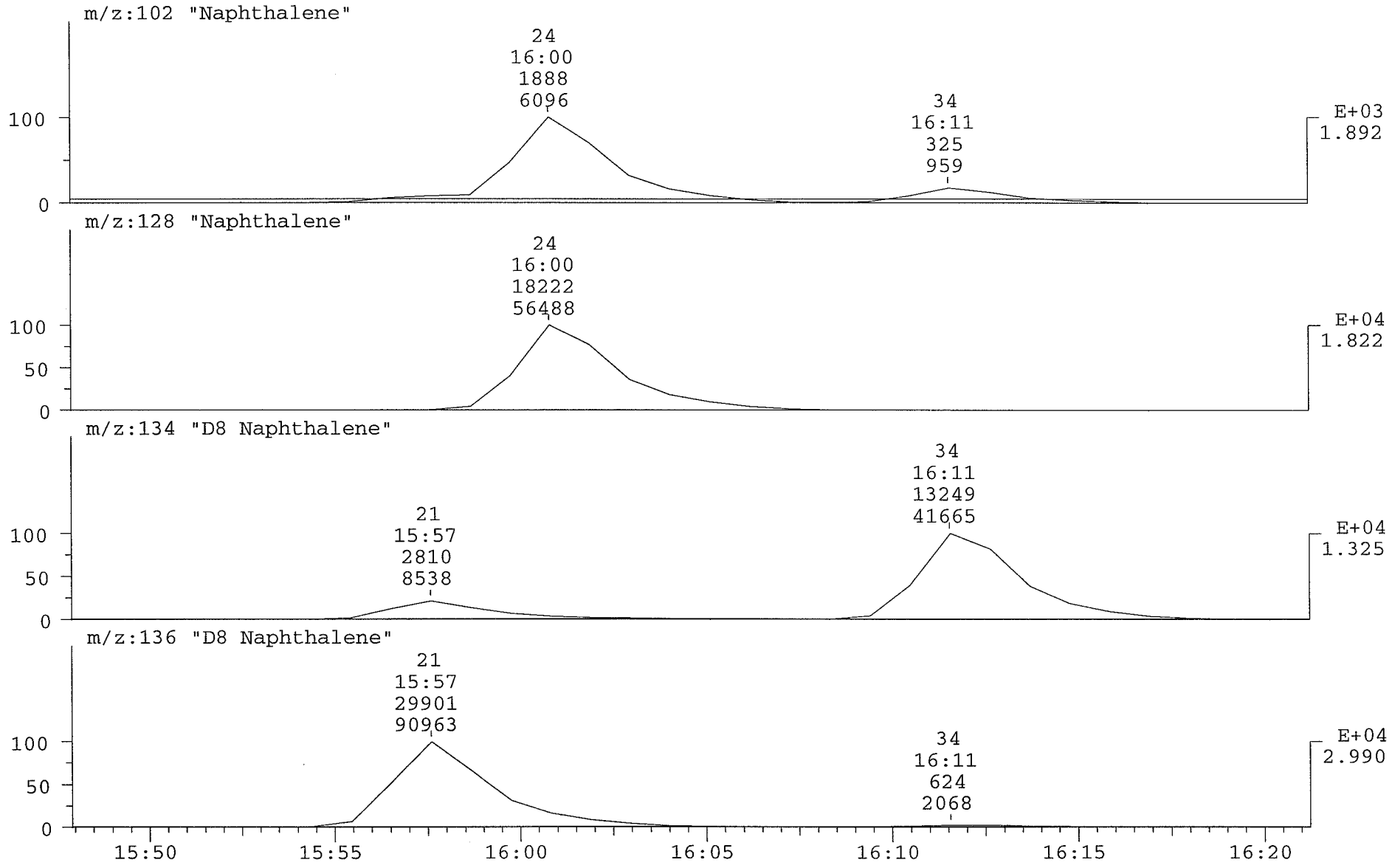


CHRO: y060426i3 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1132 > 1191 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

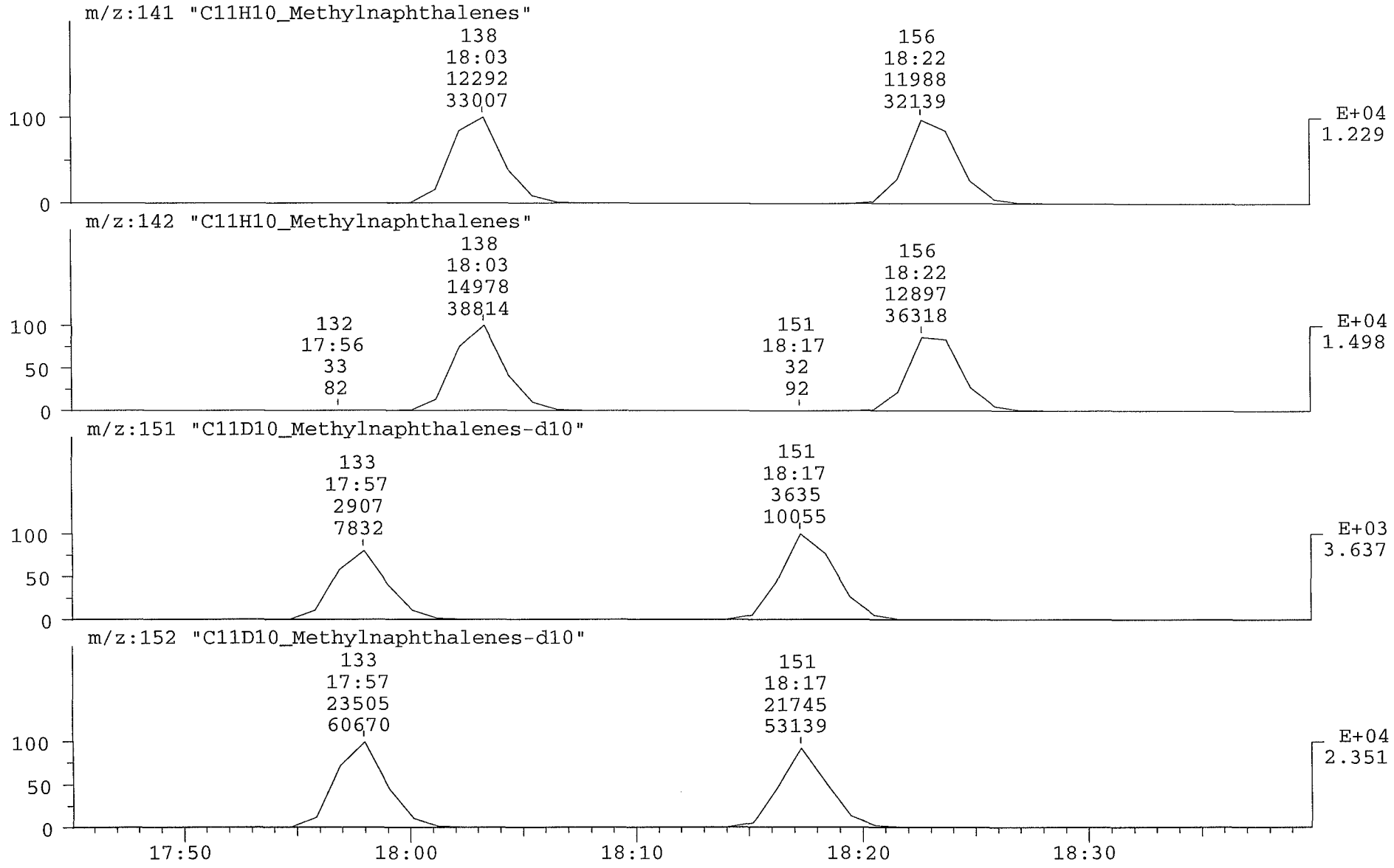


4227

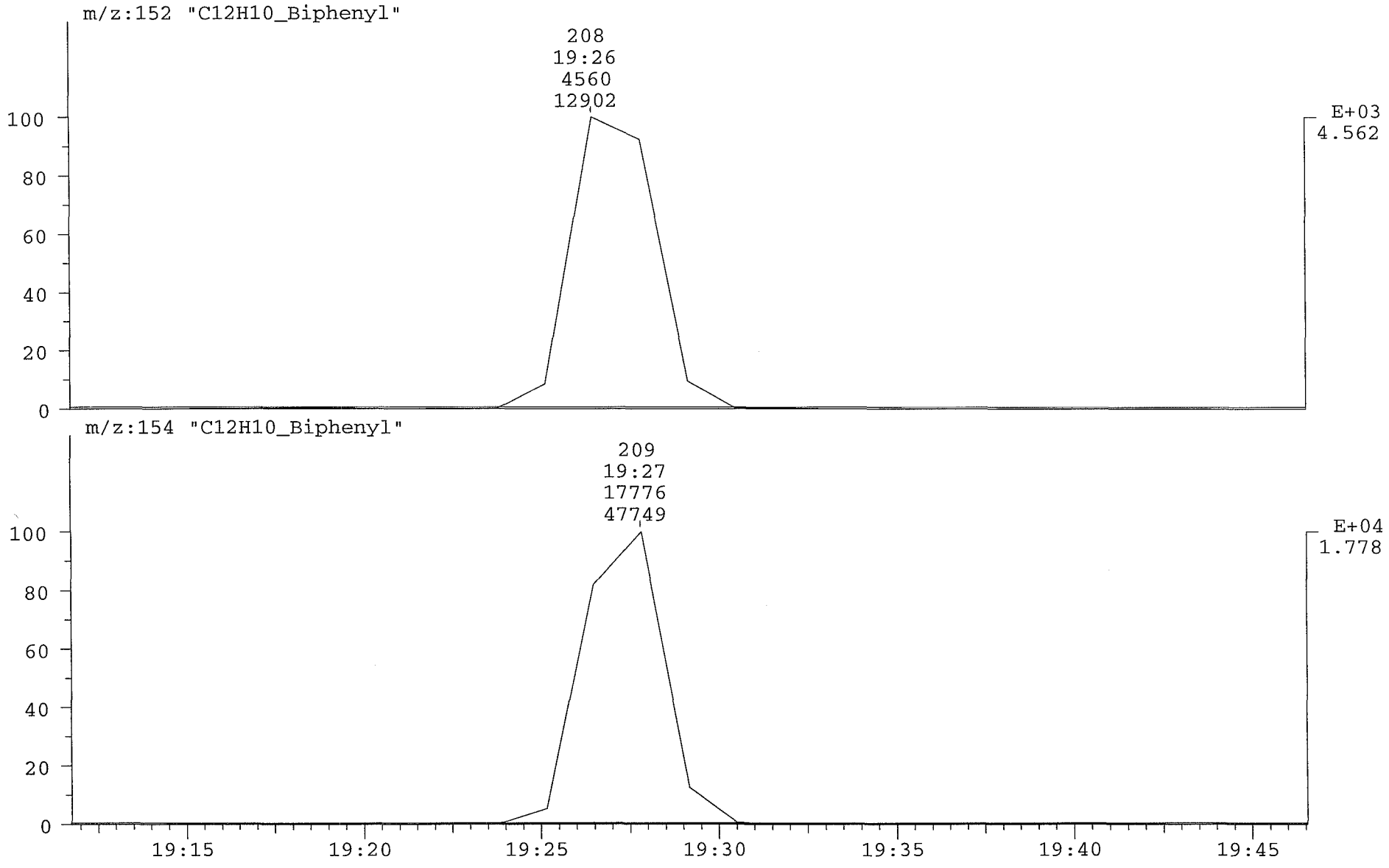
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



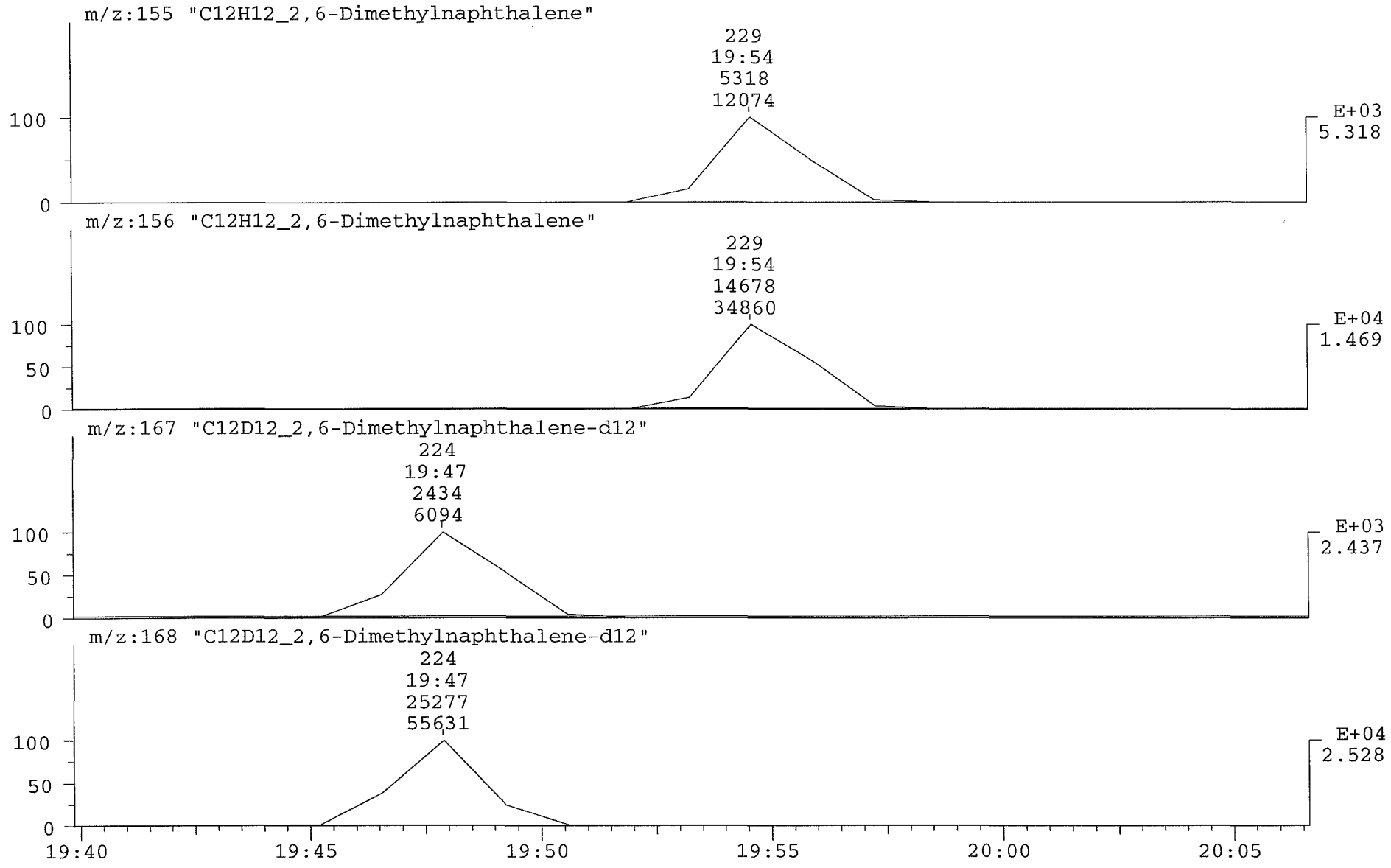
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



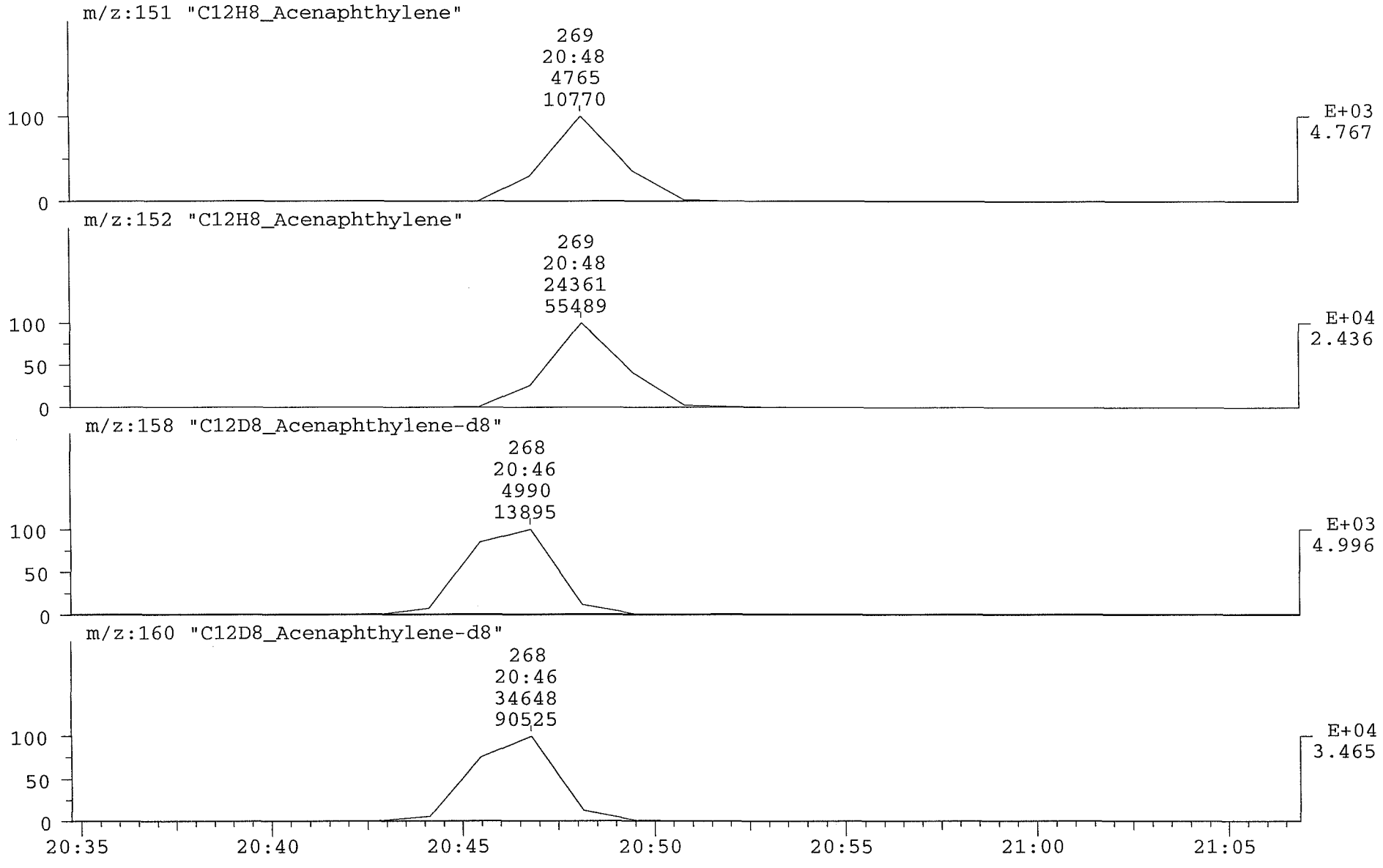
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CHRO:  y060426i3                              26-APR-06   Elapse:   49:19      1735
Samp:  WO=y060426i3 Meth=YA1 Dil=1                        Start :   21:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   ICAL
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   197 > 223            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



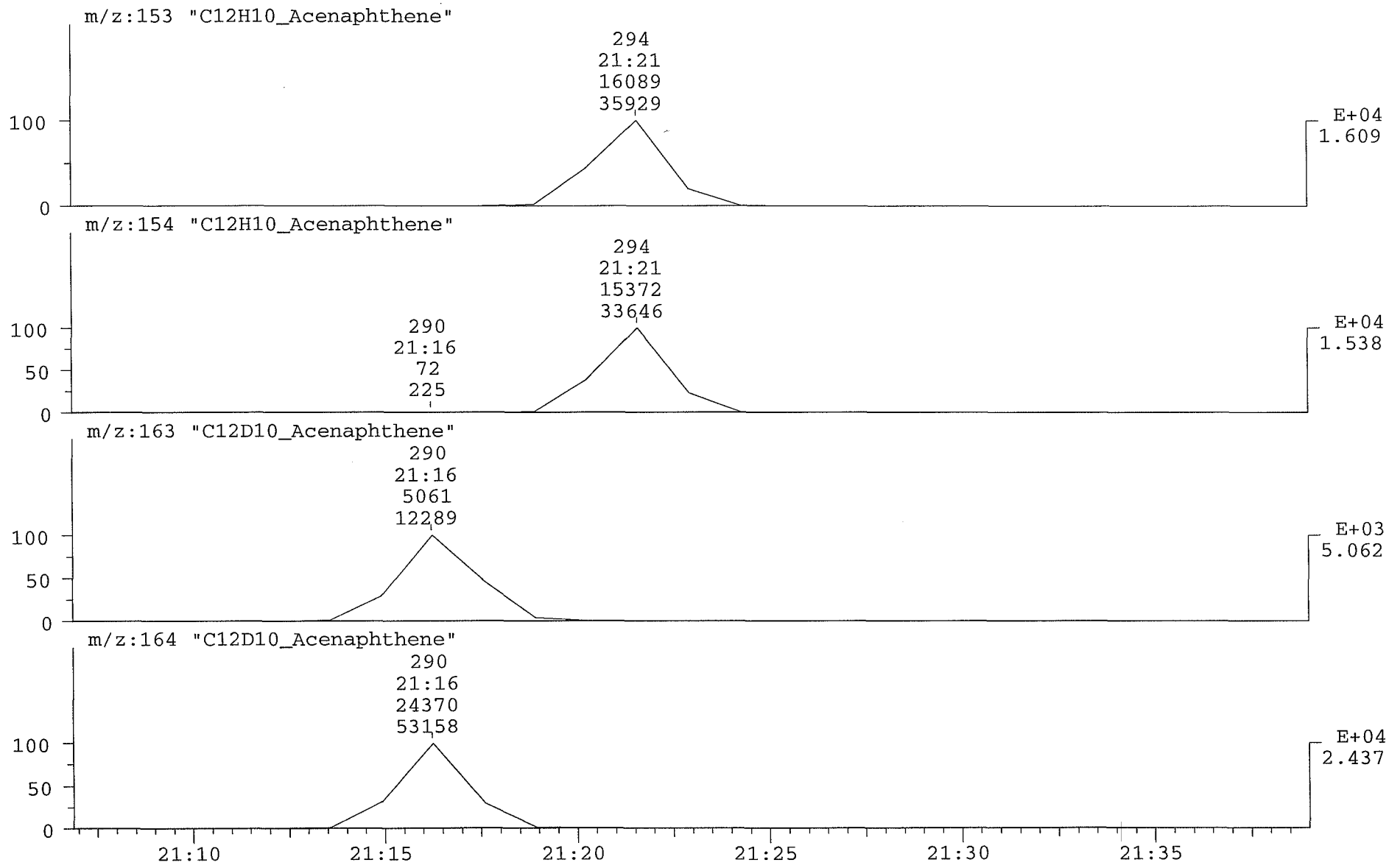
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



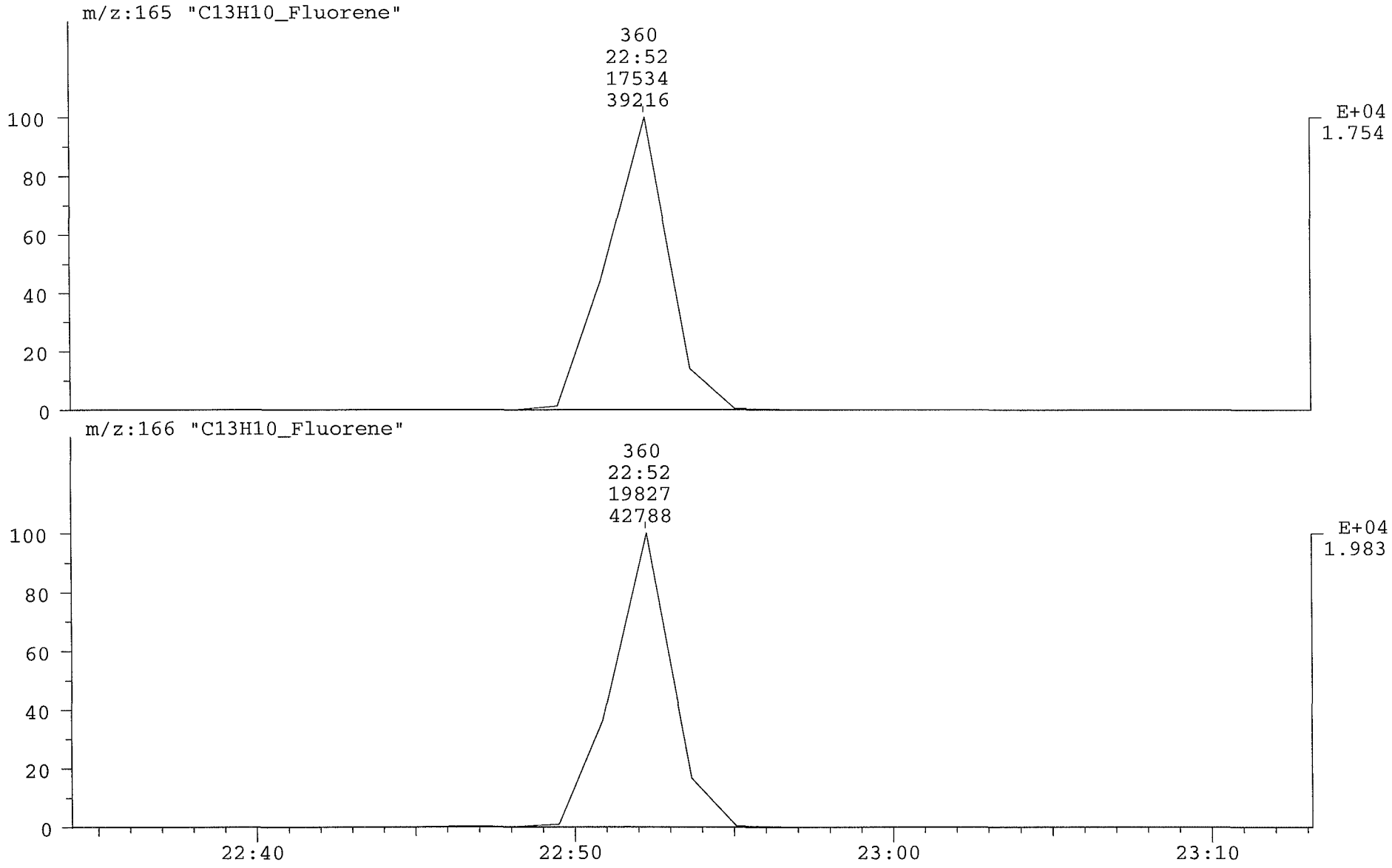
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



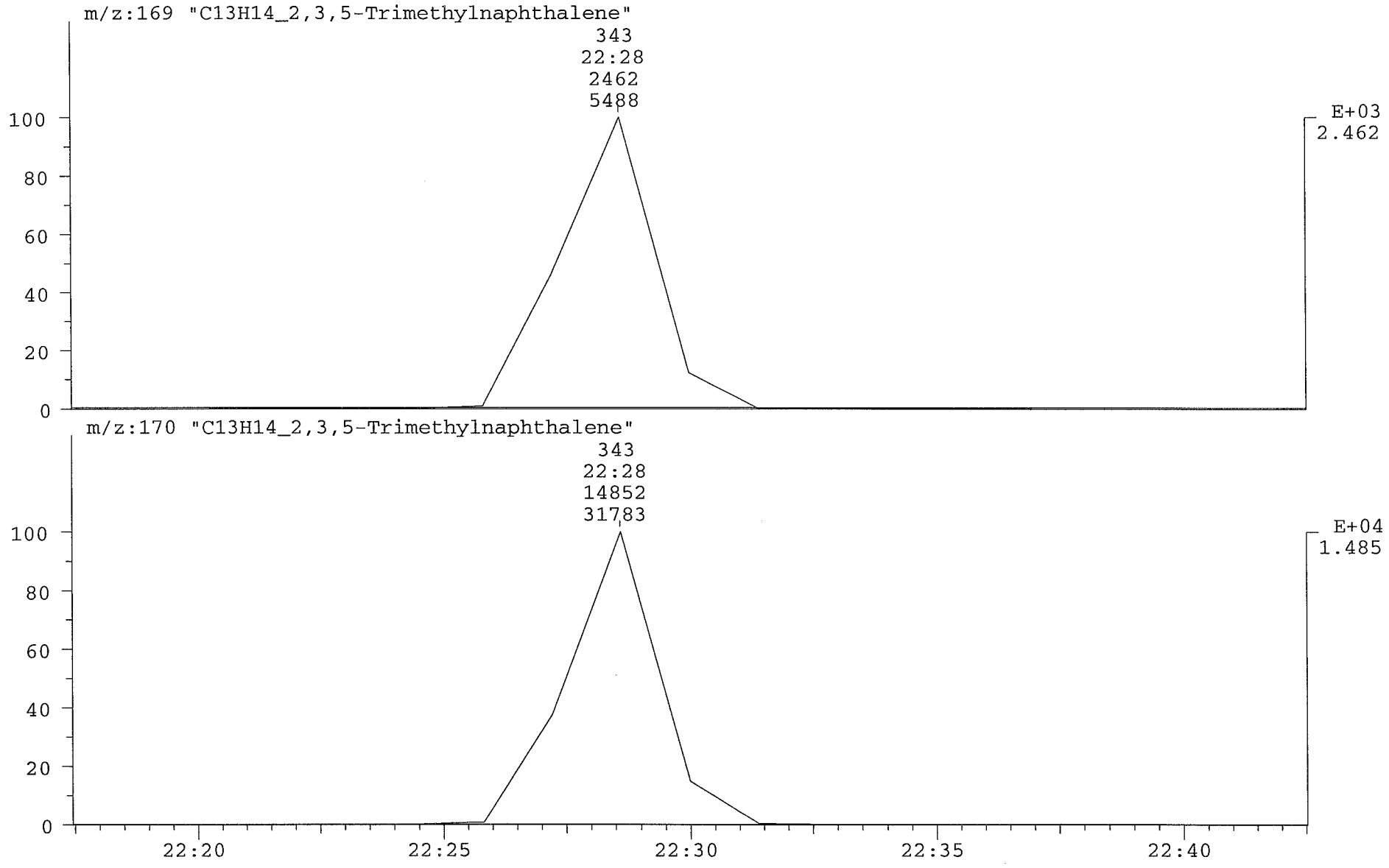
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



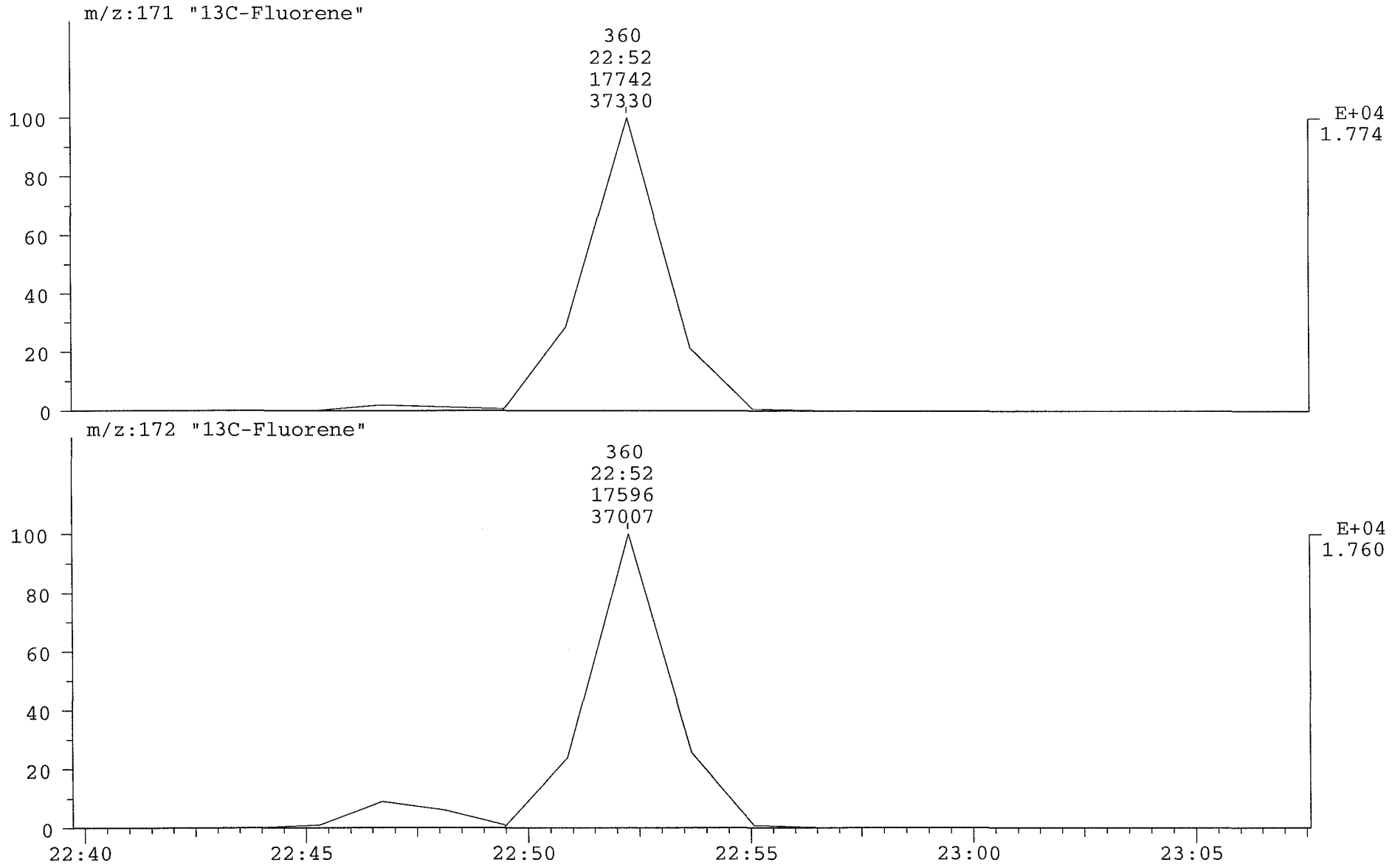
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



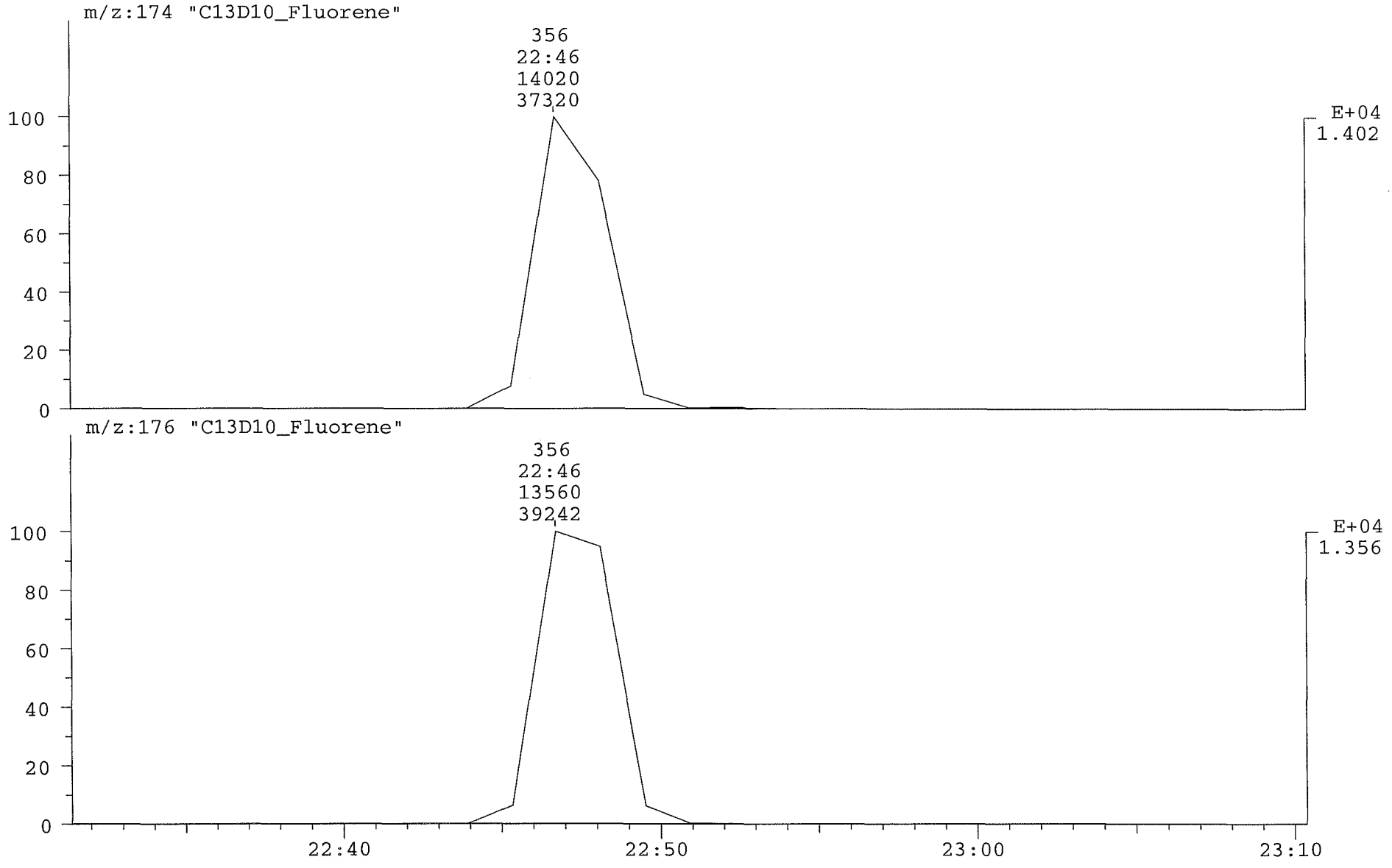
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



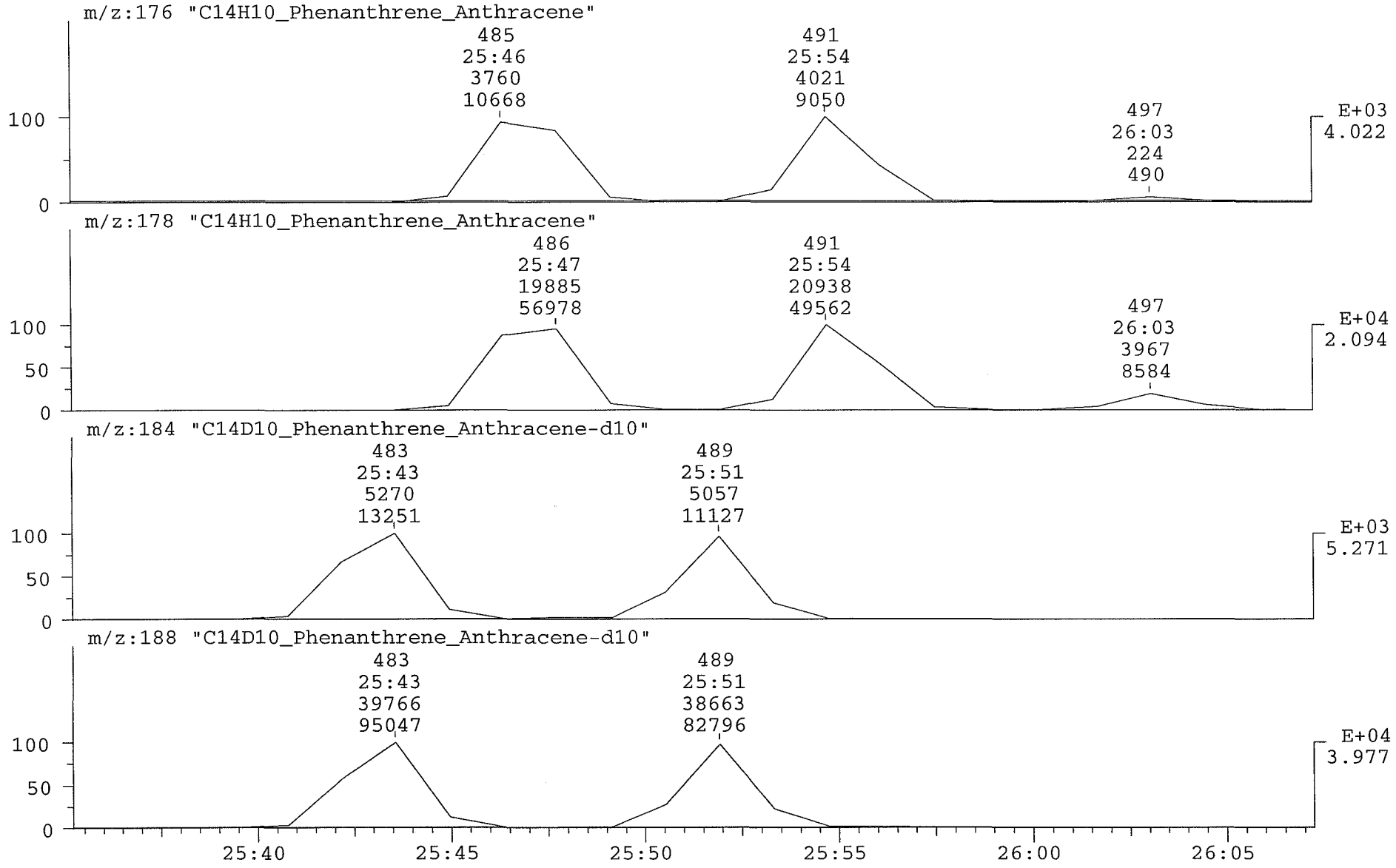
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



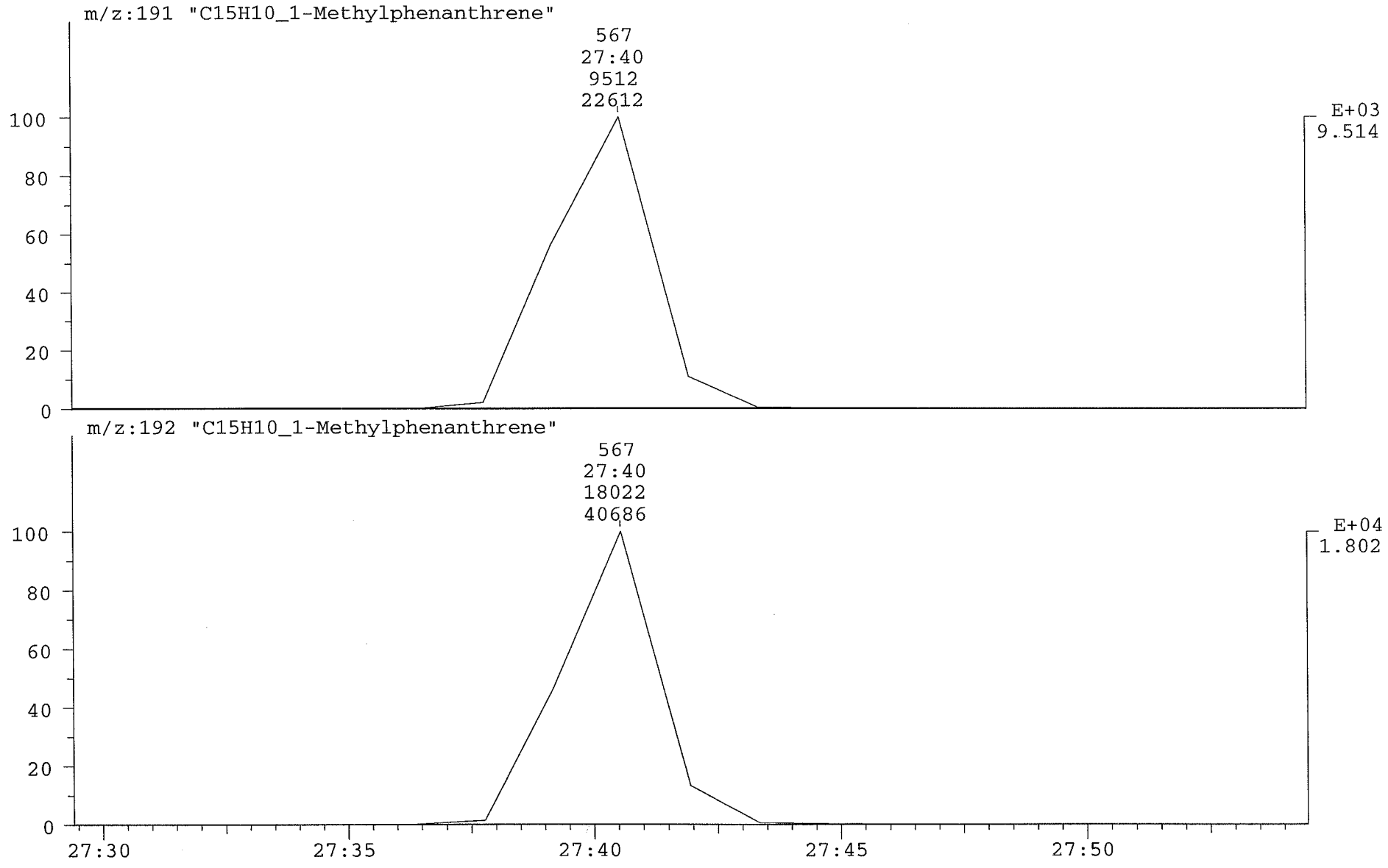
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 345 > 373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



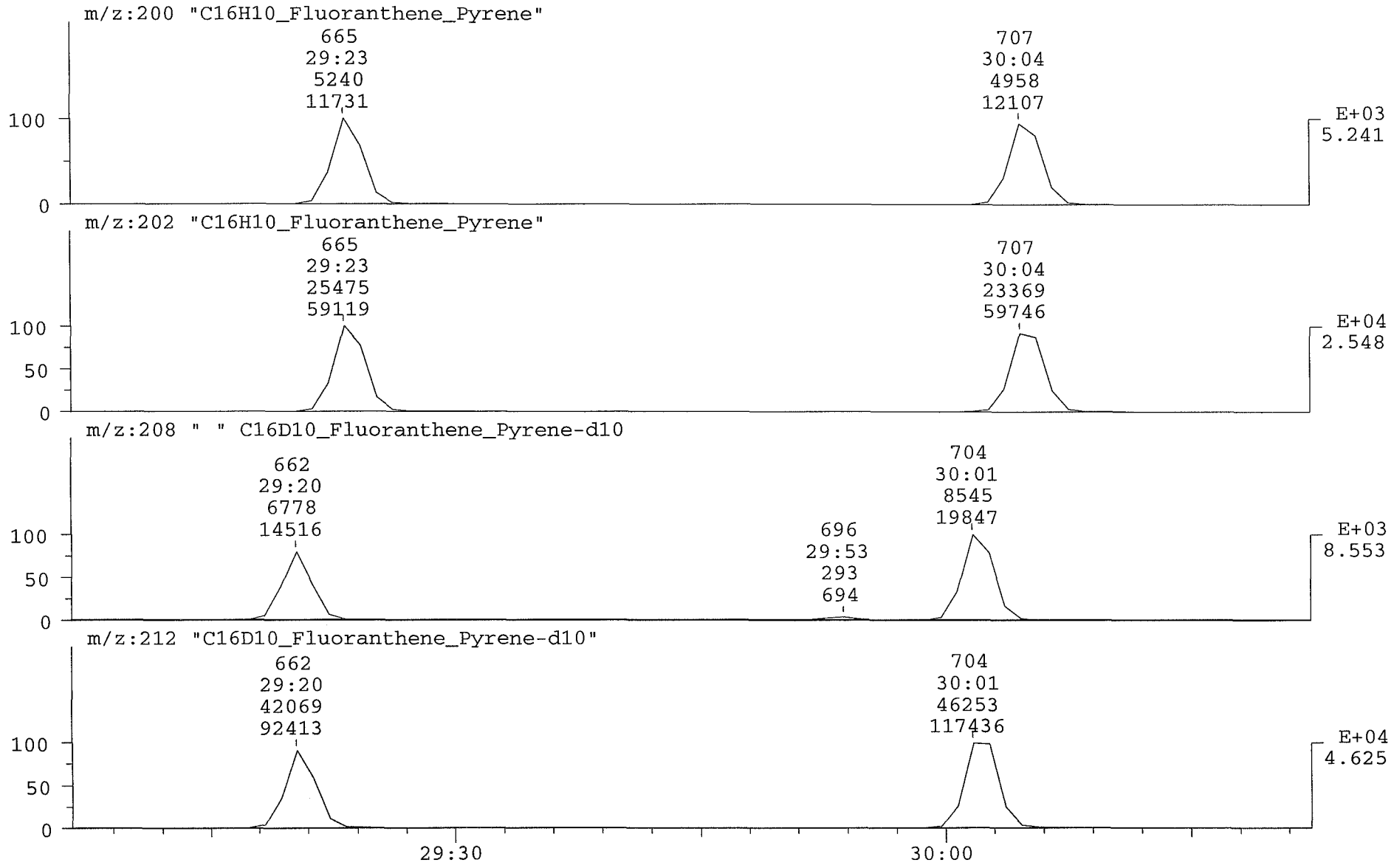
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



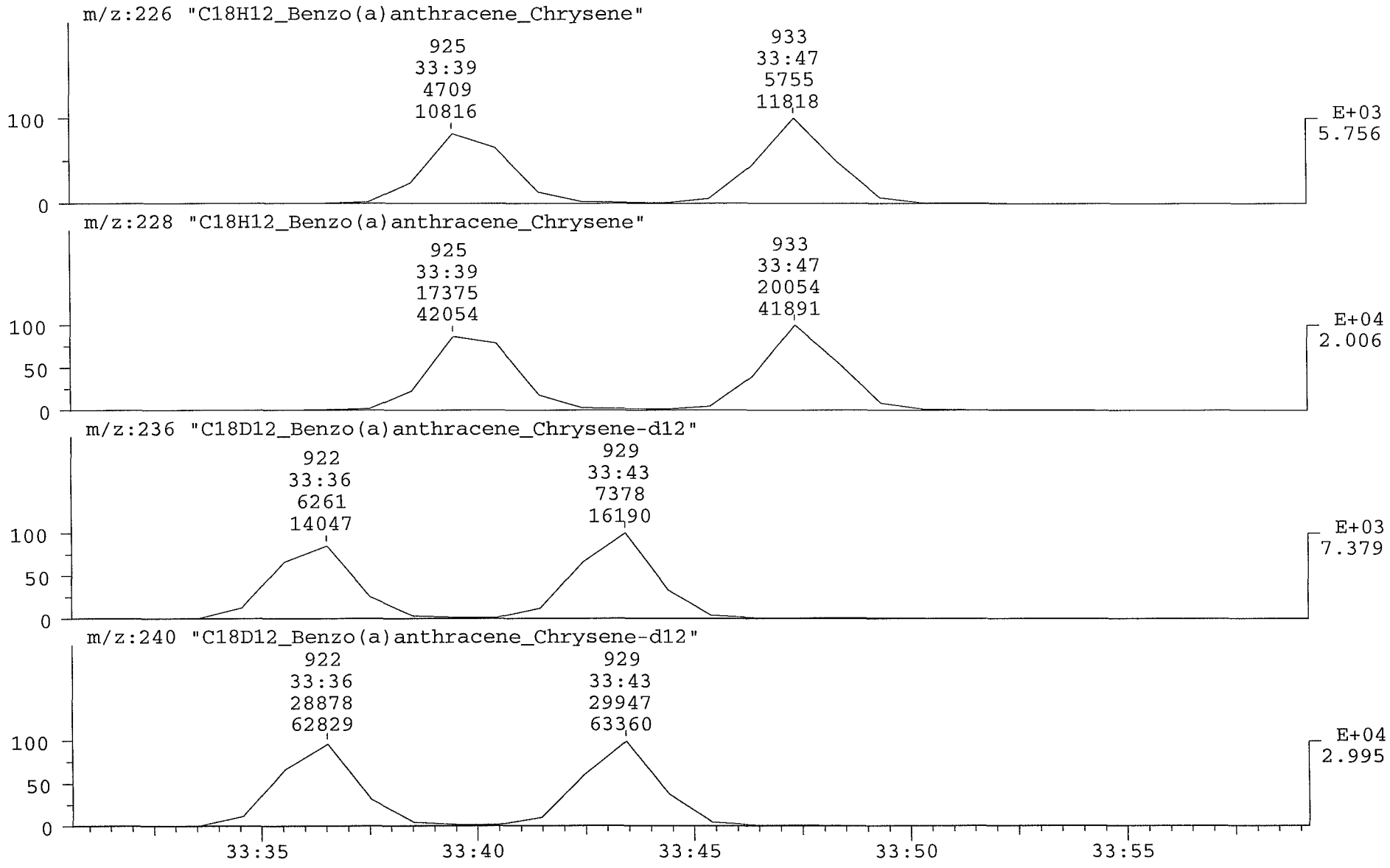
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



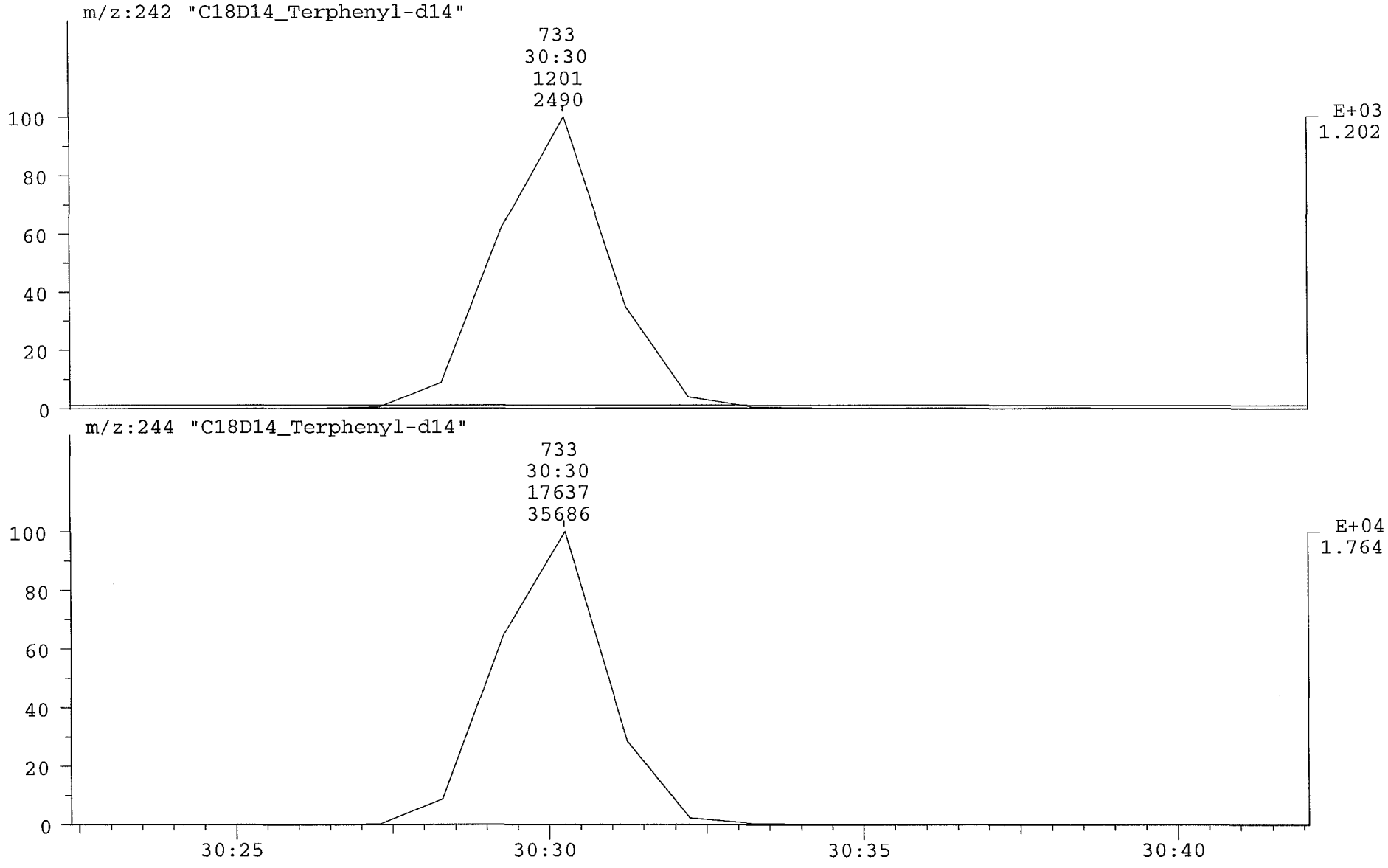
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



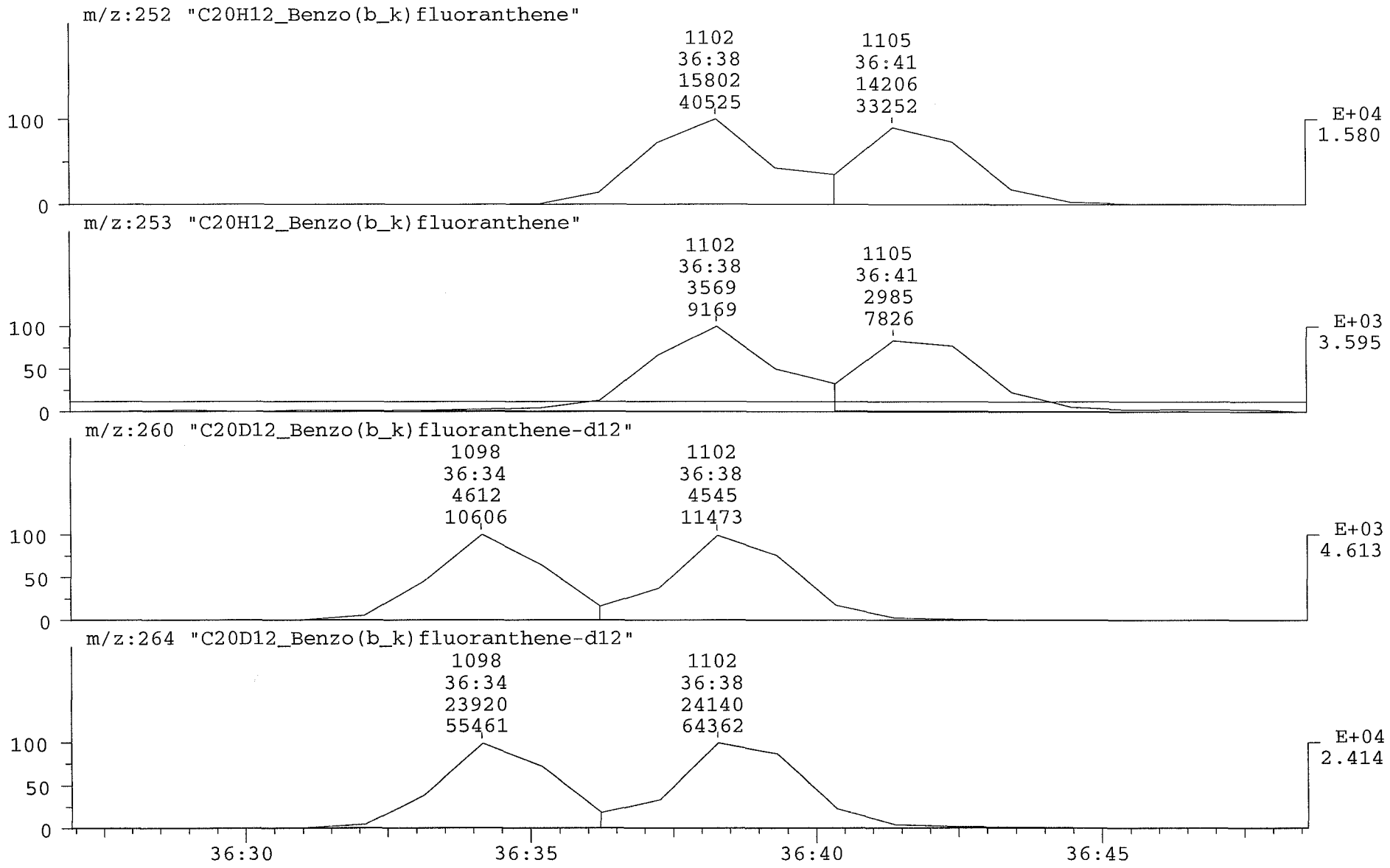
CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



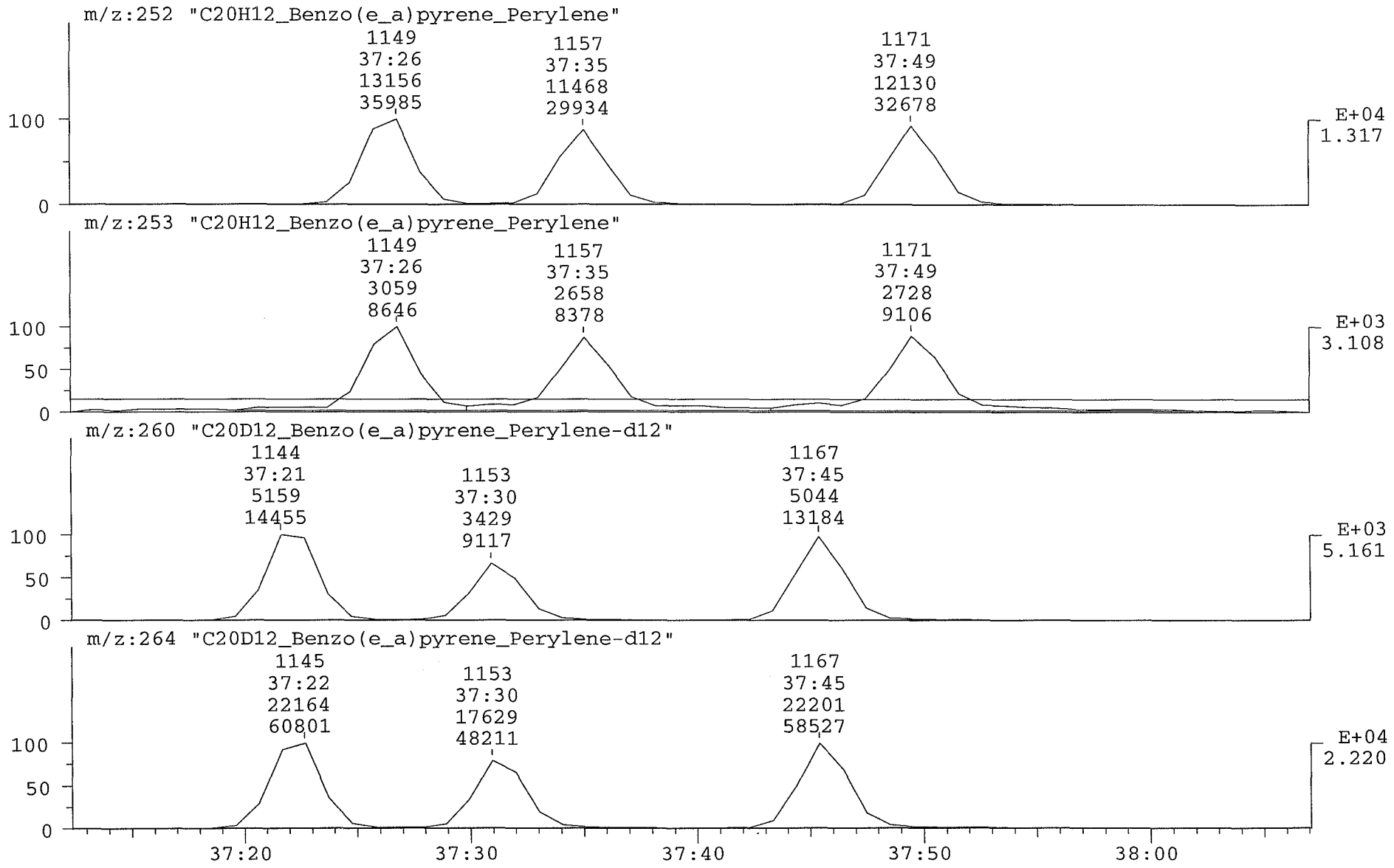
```
CHRO:  y060426i3                              26-APR-06   Elapse:   49:19      1735
Samp:  WO=y060426i3 Meth=YA1 Dil=1                        Start :   21:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   ICAL
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   725 > 745            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

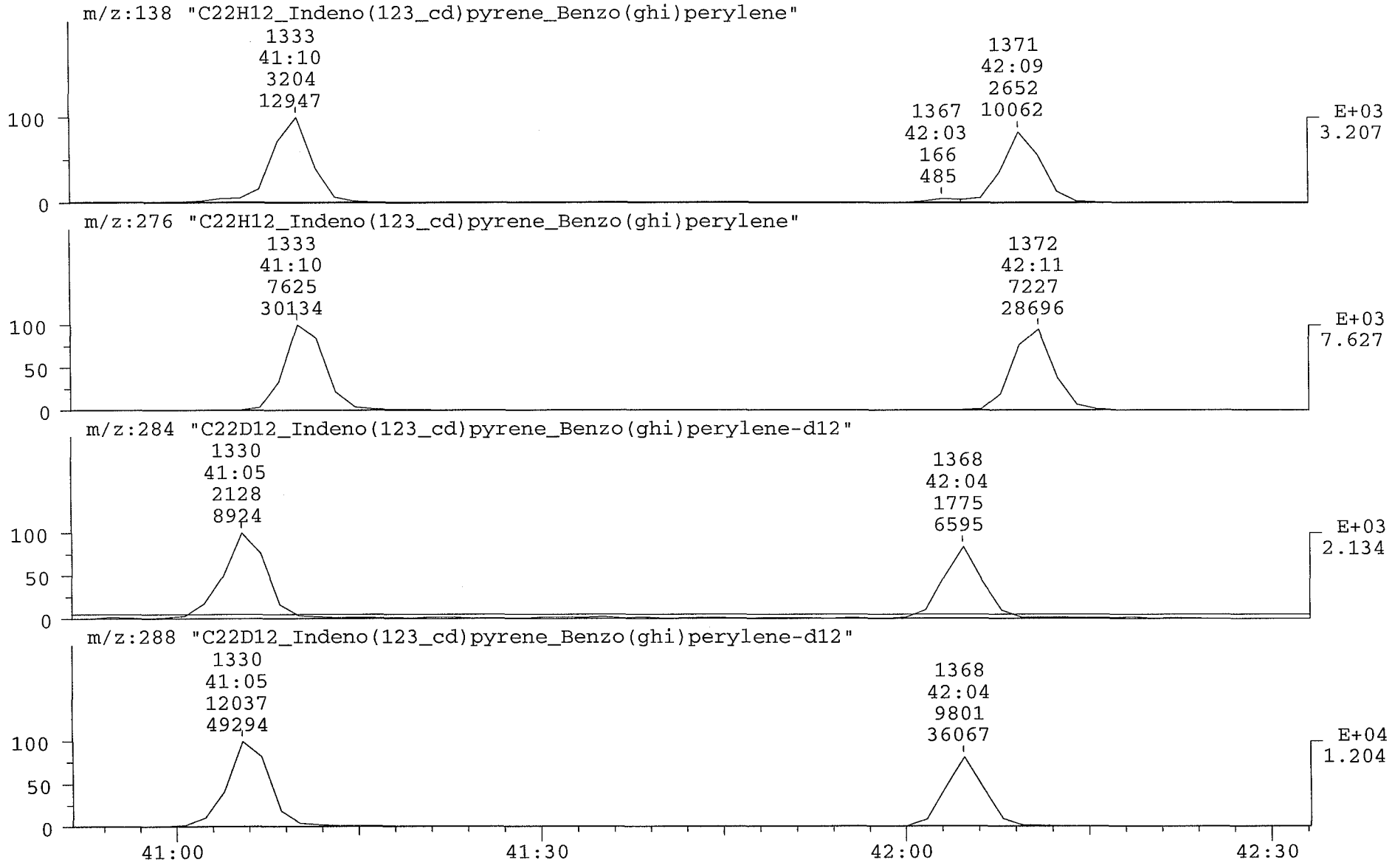


CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

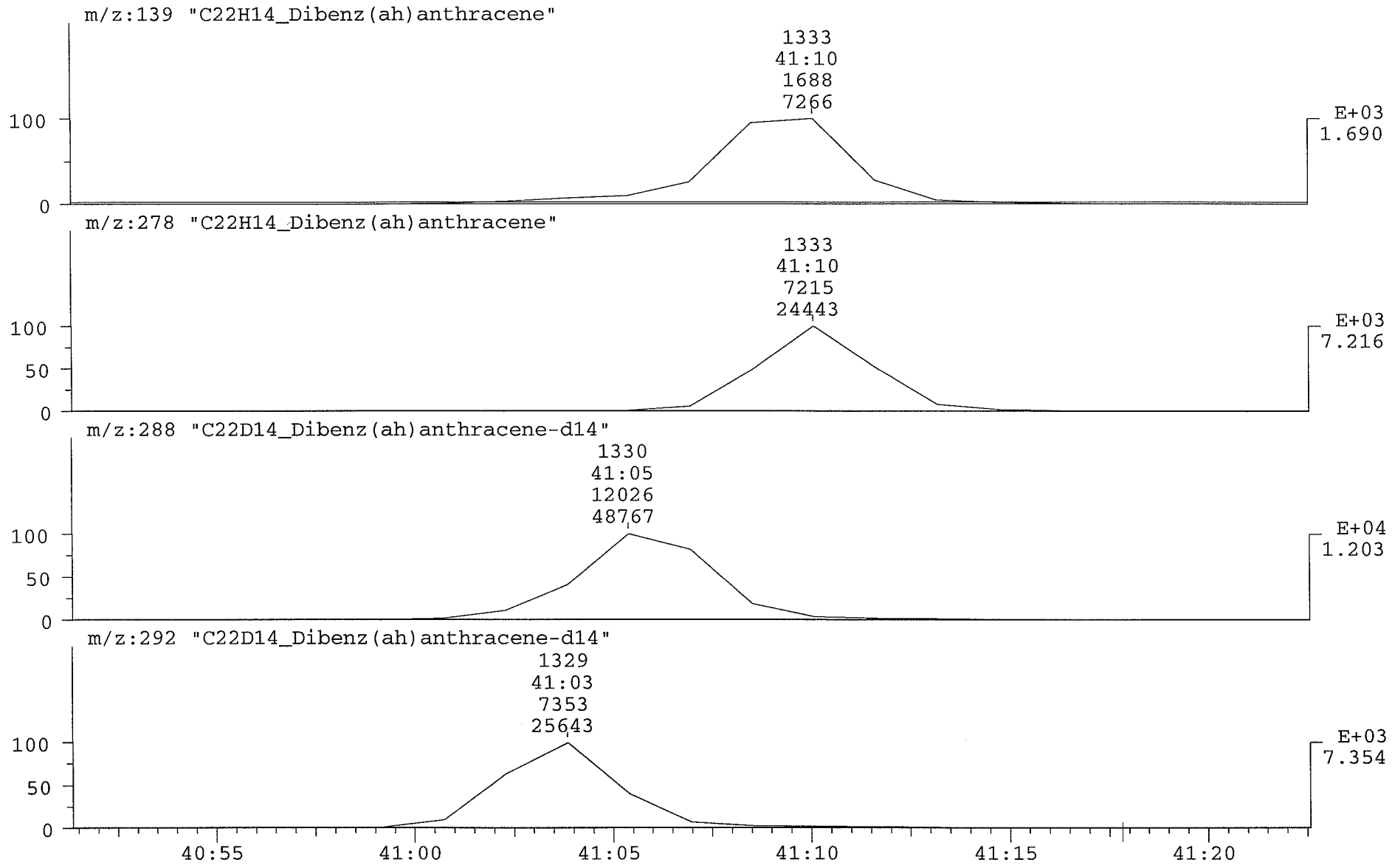


4244

CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i3 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i3 Meth=YA1 Dil=1 Start : 21:18:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: Y60426I3.D
Date Acquired: 26 Apr 2006   9:18 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: Y060426I3
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  4
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Wed Apr 26 22:13:31 2006
d:\cdffiles\Y60426I3.CDF Translated at Wed Apr 26 22:13:31 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 26 16:39:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60426i3.dat
NetCDF File (input): /usr/users/hp/data/y60426i3.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 26 16:39:01 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I4	Prep Batch		Lot No	
Data File	/20060426i/y060426i4.d	Prep Date		SDG No	
Analysis ID	90317	Prep Exp Date		Date Received	
Analysis Date	4/26/2006	Matrix	UNKNOWN	Date Sampled	
Analysis Time	22:08	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:57	93860	34561	1.000	500.0	862.636252	172.53	862.636252	0.352
Naphthalene	16:00	111096	39673	1.000	500.0	591.817601	118.36	591.817601	0.289
~~1,4-Dichlorobenzene-d4~~					~~500.0~~			~~ND~~	~~0.000000~~
~~1,4-Dichlorobenzene~~				~~1.000~~	~~500.0~~			~~ND~~	~~0.000000~~
2-Methylnaphthalene	18:03	76369	28793	1.000	500.0	611.823236	122.36	611.823236	0.313
2-Methylnaphthalene-d10	17:58	62411	23972	1.000	500.0	573.598882	114.72	573.598882	0.301
1-Methylnaphthalene	18:22	71226	27615	1.000	500.0	653.833443	130.77	653.833443	0.332
1-Methylnaphthalene-d10	18:17	54468	22609	1.000	500.0	500.597394	100.12	500.597394	0.301
~~1-Chloronaphthalene~~				~~1.000~~	~~500.0~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene~~				~~1.000~~	~~500.0~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene-d7~~					~~500.0~~			~~ND~~	~~0.000000~~
Biphenyl	19:26	92477	31642	1.000	500.0	740.871000	148.17	740.871000	0.834
2,6-Dimethylnaphthalene	19:54	67537	30197	1.000	500.0	591.858733	118.37	591.858733	1.68
2,6-Dimethylnaphthalene-d1	19:47	57055	25313	1.000	500.0	524.373656	104.87	524.373656	0.251
~~C2 Alkylnaphthalenes~~				~~1.000~~		~~591.858733~~		~~591.858733~~	~~1.23~~
Acenaphthylene	20:48	109265	49141	1.000	500.0	592.363490	118.47	592.363490	0.224
Acenaphthylene-d8	20:46	92228	33496	1.000	500.0	847.637079	169.53	847.637079	0.201
Acenaphthene-d10	21:16	54403	24891	1.000	500.0	500.000000	100.00	500.000000	0.251
Acenaphthene	21:21	66297	29445	1.000	500.0	359.419048	71.88	359.419048	0.597
2,3,5-Trimethylnaphthalene	22:28	61997	28610	1.000	500.0	543.309088	108.66	543.309088	0.247
~~C3 Alkylnaphthalenes~~				~~1.000~~		~~543.309088~~		~~543.309088~~	~~0.181~~
Fluorene d-10	22:46	74624	27339	1.000	500.0	394.239405	78.85	394.239405	0.0971
Fluorene-C13	22:52	71363	33794	1.000	500.0	377.011506	75.40	377.011506	0.0647
Fluorene	22:52	82732	37517	1.000	500.0	437.074057	87.41	437.074057	0.194
Phenanthrene-d10	25:43	94643	38629	1.000	500.0	413.447089	82.69	413.447089	0.139
Phenanthrene	25:47	111340	37562	1.000	500.0	588.210433	117.64	588.210433	0.162
Anthracene-d10	25:52	81806	38214	1.000	500.0	357.368771	71.47	357.368771	0.139
Anthracene	25:54	98328	41700	1.000	500.0	519.467895	103.89	519.467895	0.162
1-Methylphenanthrene	27:40	79834	34933	1.000	500.0	421.763892	84.35	421.763892	0.227
Fluoranthene-d10	29:20	89789	41015	1.000	500.0	392.242434	78.45	392.242434	0.167
Fluoranthene	29:23	114369	49106	1.000	500.0	636.876455	127.38	636.876455	0.152
Pyrene-d10	30:01	114456	44824	1.000	500.0	500.000000	100.00	500.000000	0.167
Pyrene	30:04	115987	44834	1.000	500.0	645.886467	129.18	645.886467	0.152
Terphenyl-d14	30:30	66765	32635	1.000	500.0	371.788304	74.36	371.788304	0.0610
Benzo(a)Anthracene-d12	33:36	59318	26351	1.000	500.0	259.130146	51.83	259.130146	0.167
Benzo(a)anthracene	33:39	80183	33462	1.000	500.0	675.874102	135.17	675.874102	0.237
Chrysene-d12	33:43	60254	27904	1.000	500.0	263.219054	52.64	263.219054	0.167
Chrysene	33:47	78138	37029	1.000	500.0	648.405085	129.68	648.405085	0.224
Benzo(b)Fluoranthene-d12	36:34	50871	21908	1.000	500.0	452.685627	90.54	452.685627	0.608
Benzo(k)Fluoranthene-d12	36:38	59536	22230	1.000	500.0	529.792838	105.96	529.792838	0.608
Benzo(b)fluoranthene	36:38	73429	28594	1.000	500.0	721.717678	144.34	721.717678	1.14
Benzo(k)fluoranthene	36:41	61147	26225	1.000	500.0	513.529629	102.71	513.529629	1.12
Benzo(e)pyrene-d12	37:22	56188	20547	1.000	500.0	500.000000	100.00	500.000000	0.608
Benzo(e)pyrene	37:26	65168	23775	1.000	500.0	739.637717	147.93	739.637717	1.51
Benzo(a)Pyrene-d12	37:31	44054	16517	1.000	500.0	392.023208	78.40	392.023208	0.608
Benzo(a)pyrene	37:35	54396	21182	1.000	500.0	617.378672	123.48	617.378672	1.51
Perylene-d12	37:45	53497	20233	1.000	500.0	476.053606	95.21	476.053606	0.608
Perylene	37:49	59073	22223	1.000	500.0	552.115072	110.42	552.115072	1.24
~~3-Methylcholanthrene~~				~~1.000~~	~~500.0~~			~~ND~~	~~1.24~~

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I4	**Prep Batch**		**Lot No**	
Data File	/20060426i/y060426i4.d	**Prep Date**		**SDG No**	
Analysis ID	90317	**Prep Exp Date**		**Date Received**	
Analysis Date	4/26/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	22:08	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:03	22129	6374	1.000	500.0	196.919271	39.38	196.919271	0.304
Indeno(1,2,3-cd)pyrene-d12	41:05	43039	10921	1.000	500.0	382.991030	76.60	382.991030	0.487
Indeno(1,2,3-cd)pyrene	41:10	51848	13699	1.000	500.0	602.337415	120.47	602.337415	0.572
Dibenz(a,h)anthracene	41:10	41490	12582	1.000	500.0	937.457635	187.49	937.457635	1.76
Benzo(ghi)Perylene-d12	42:04	31409	8498	1.000	500.0	279.499181	55.90	279.499181	0.487
Benzo(ghi)perylene	42:11	49665	12734	1.000	500.0	790.617339	158.12	790.617339	0.735
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	500.0			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I4	Prep Batch		Lot No	
Data File	/20060426i/y060426i4.d	Prep Date		SDG No	
Analysis ID	90317	Prep Exp Date		Date Received	
Analysis Date	04/26/06 22:08	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	20		8				
	Naphthalene	16:00	00:00	0	111096		39673			ABV	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	18		7				
	Naphthalene-d8	15:57	00:00	0	93860		34561			ABV	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene	18:03	00:00	0	76369		28793			ABV	
	1-Methylnaphthalene	18:22	00:00	0	71226		27615			AVB	
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	00:00	0	62411		23972			ABB	
	1-Methylnaphthalene-d10	18:17	00:00	0	54468		22609			ABV	
	Acenaphthylene	20:48	00:00	0	109265		49141			ABB	M
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	40		16				
	Biphenyl	19:26	00:00	0	92477		31642			ABB	
	Acenaphthene	21:21	00:00	0	66297		29445			ABB	M
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	85		34				
	2,6-Dimethylnaphthalene	19:54	00:00	0	67537		30197			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:46	00:00	0	92228		33496			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	10		4				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	13		5				
	Acenaphthene-d10	21:16	00:00	0	54403		24891			ABB	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluorene	22:52	00:00	0	82732		37517			AVB	M
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	13		5				
	2,6-Dimethylnaphthalene	19:47	00:00	0	57055		25313			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	10		4				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	13		5				
	2,3,5-Trimethylnaphthal	22:28	00:00	0	61997		28610			ABB	M
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	5		2				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I4	Prep Batch		Lot No	
Data File	/20060426i/y060426i4.d	Prep Date		SDG No	
Analysis ID	90317	Prep Exp Date		Date Received	
Analysis Date	04/26/06 22:08	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					**172.0000**		**172.0000**				
	Fluorene-C13	22:52	00:00	0	71363		33794			AVB	M
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	8		3				
	Fluorene d-10	22:46	00:00	0	74624		27339			ABB	M
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	13		5				
	Phenanthrene	25:47	00:00	0	111340		37562			ABV	M
	Anthracene	25:54	00:00	0	98328		41700			AVV	M
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	13		5				
	Phenanthrene-d10	25:43	00:00	0	94643		38629			ABV	M
	Anthracene-d10	25:52	00:00	0	81806		38214			AVB	M
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	18		7				
	1-Methylphenanthrene	27:40	00:00	0	79834		34933			ABB	M
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	13		5				
	Fluoranthene	29:23	00:00	0	114369		49106			ABV	M
	Pyrene	30:04	00:00	0	115987		44834			ABV	
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene-d10	29:20	00:00	0	89789		41015			ABV	
	Pyrene-d10	30:01	00:00	0	114456		44824			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	13		5				
	Benzo(a)anthracene	33:39	00:00	0	80183		33462			ABV	M
	Chrysene	33:47	00:00	0	78138		37029			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)Anthracene-d12	33:36	00:00	0	59318		26351			ABV	
	Chrysene-d12	33:43	00:00	0	60254		27904			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	5		2				
	Terphenyl-d14	30:30	00:00	0	66765		32635			ABB	
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	50		20				
	Benzo(b)fluoranthene	36:38	00:00	0	73429		28594			ABV	M
	Benzo(k)fluoranthene	36:41	00:00	0	61147		26225			AVB	M
	Benzo(e)pyrene	37:26	00:00	0	65168		23775			ABV	M
	Benzo(a)pyrene	37:35	00:00	0	54396		21182			AVV	M
	Perylene	37:49	00:00	0	59073		22223			AVV	M
264					**264.0000**		**264.0000**				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I4	Prep Batch		Lot No	
Data File	/20060426i/y060426i4.d	Prep Date		SDG No	
Analysis ID	90317	Prep Exp Date		Date Received	
Analysis Date	04/26/06 22:08	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

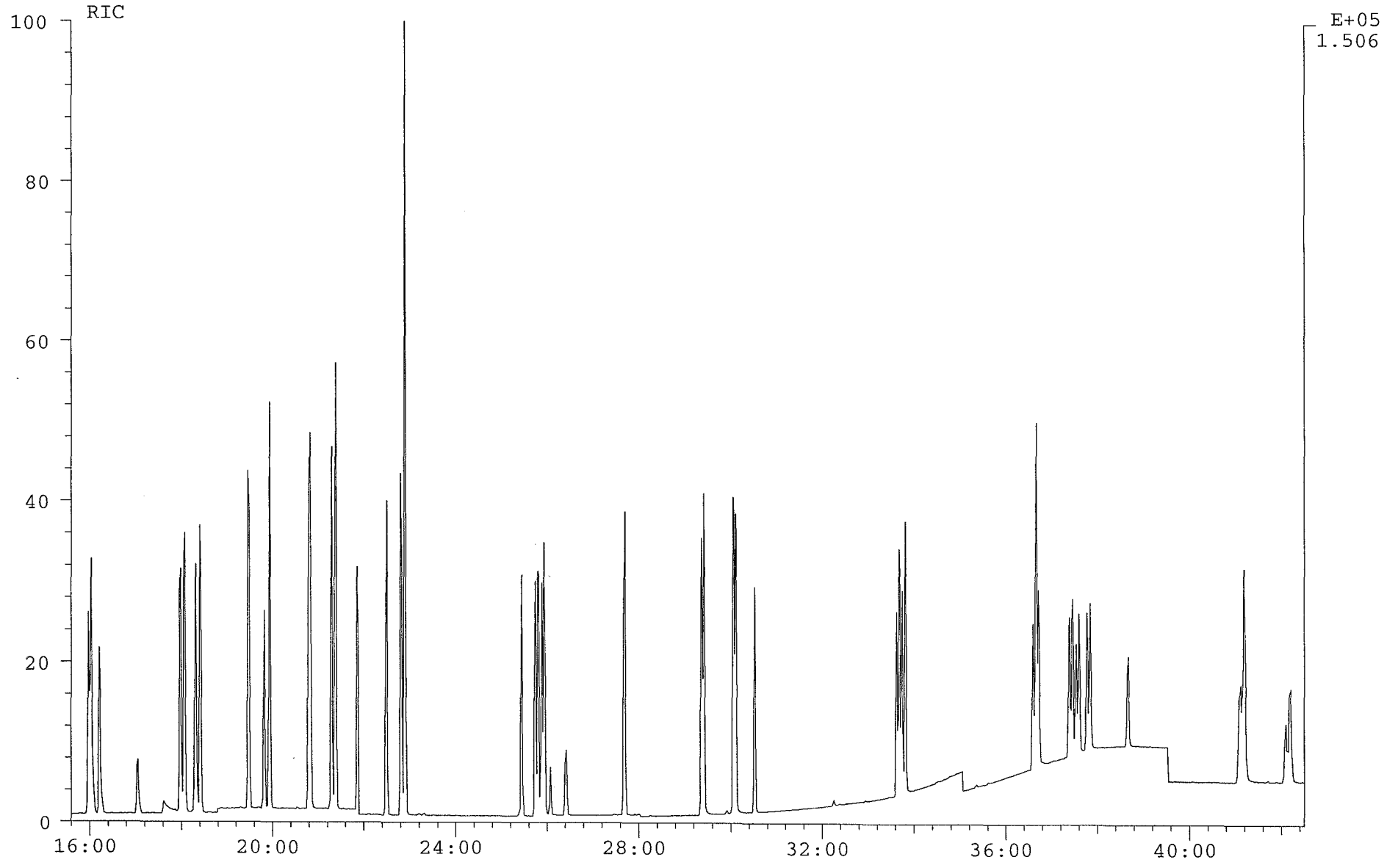
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	25		10				
	Benzo(b)Fluoranthene-d1	36:34	00:00	0	50871		21908			ABV	M
	Benzo(k)Fluoranthene-d1	36:38	00:00	0	59536		22230			AVB	M
	Benzo(e)pyrene-d12	37:22	00:00	0	56188		20547			ABV	M
	Benzo(a)Pyrene-d12	37:31	00:00	0	44054		16517			AVV	M
	Perylene-d12	37:45	00:00	0	53497		20233			AVV	M
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	50		20				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene	41:10	00:00	0	51848		13699			ABV	
	Benzo(ghi)perylene	42:11	00:00	0	49665		12734			ABB	M
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	23		9				
	Dibenz(a,h)anthracene	41:10	00:00	0	41490		12582			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene-	41:05	00:00	0	43039		10921			ABV	
	Benzo(ghi)Perylene-d12	42:04	00:00	0	31409		8498			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	13		5				
	Dibenz(ah)Anthracene-d1	41:03	00:00	0	22129		6374			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	8		3				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	8		3				

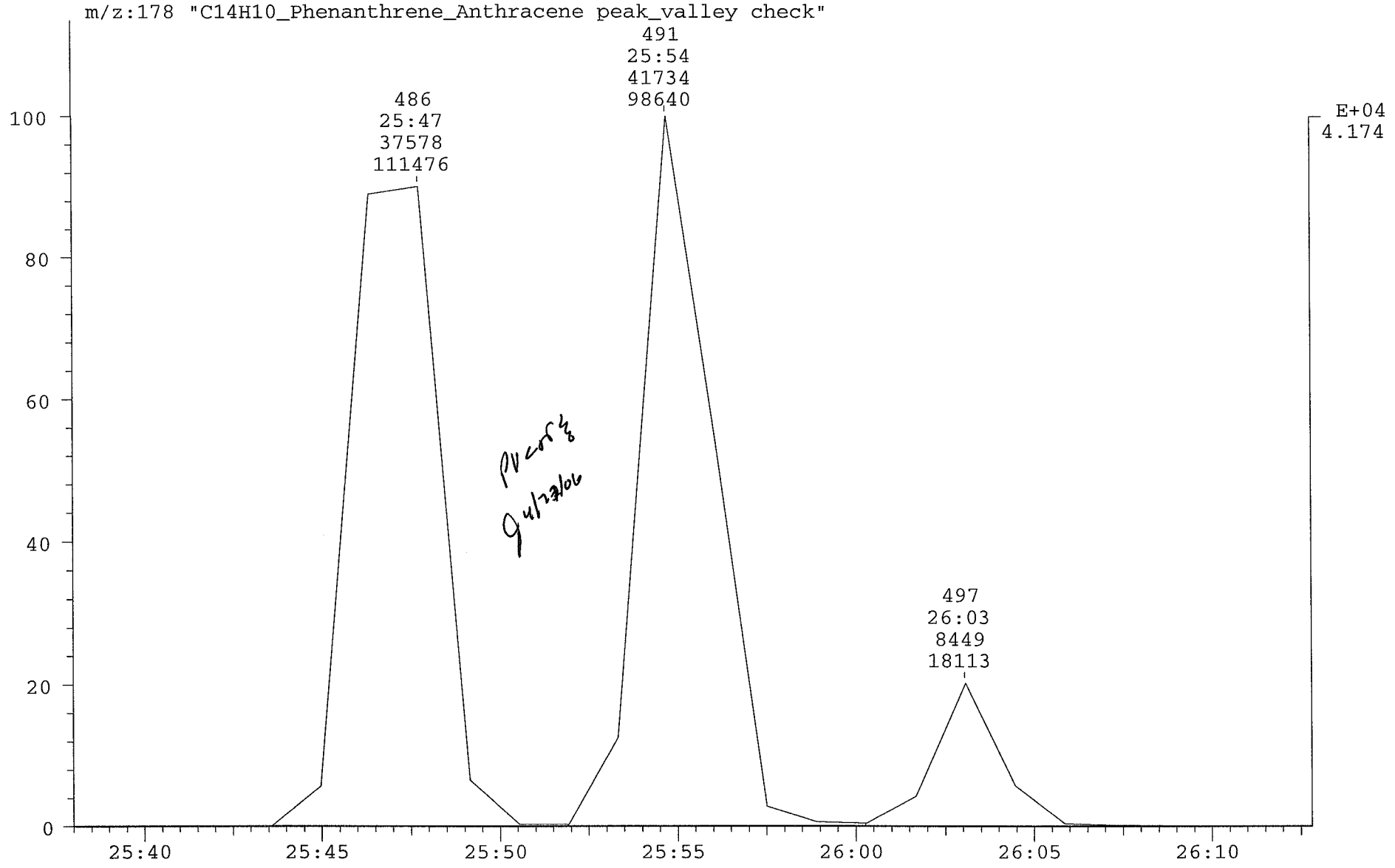
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Inst/Calc: Graphtec
QC VMIC 4/27/06

CHRO: y060426i4 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1731 > 1739 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area

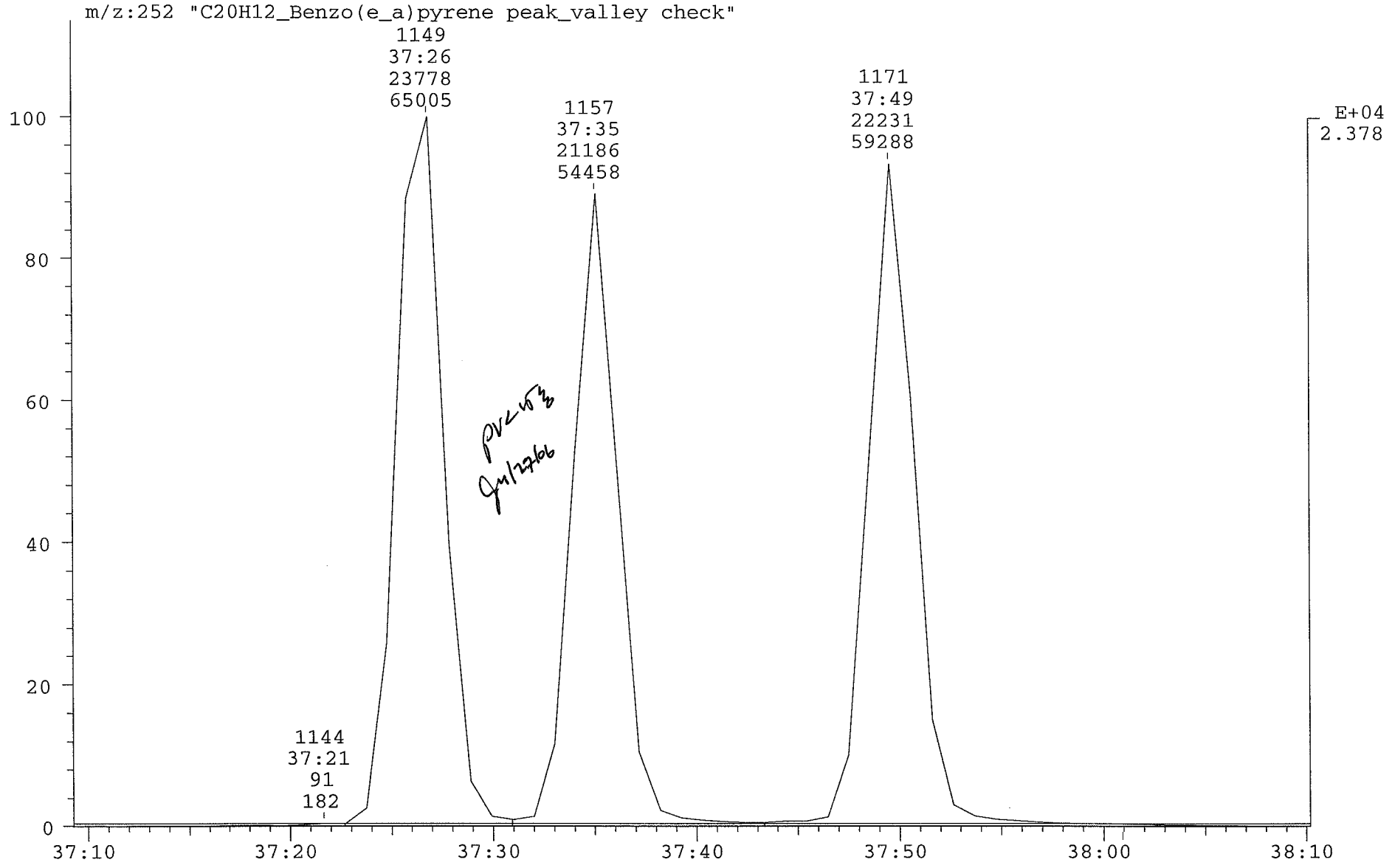


CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 479 > 504 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



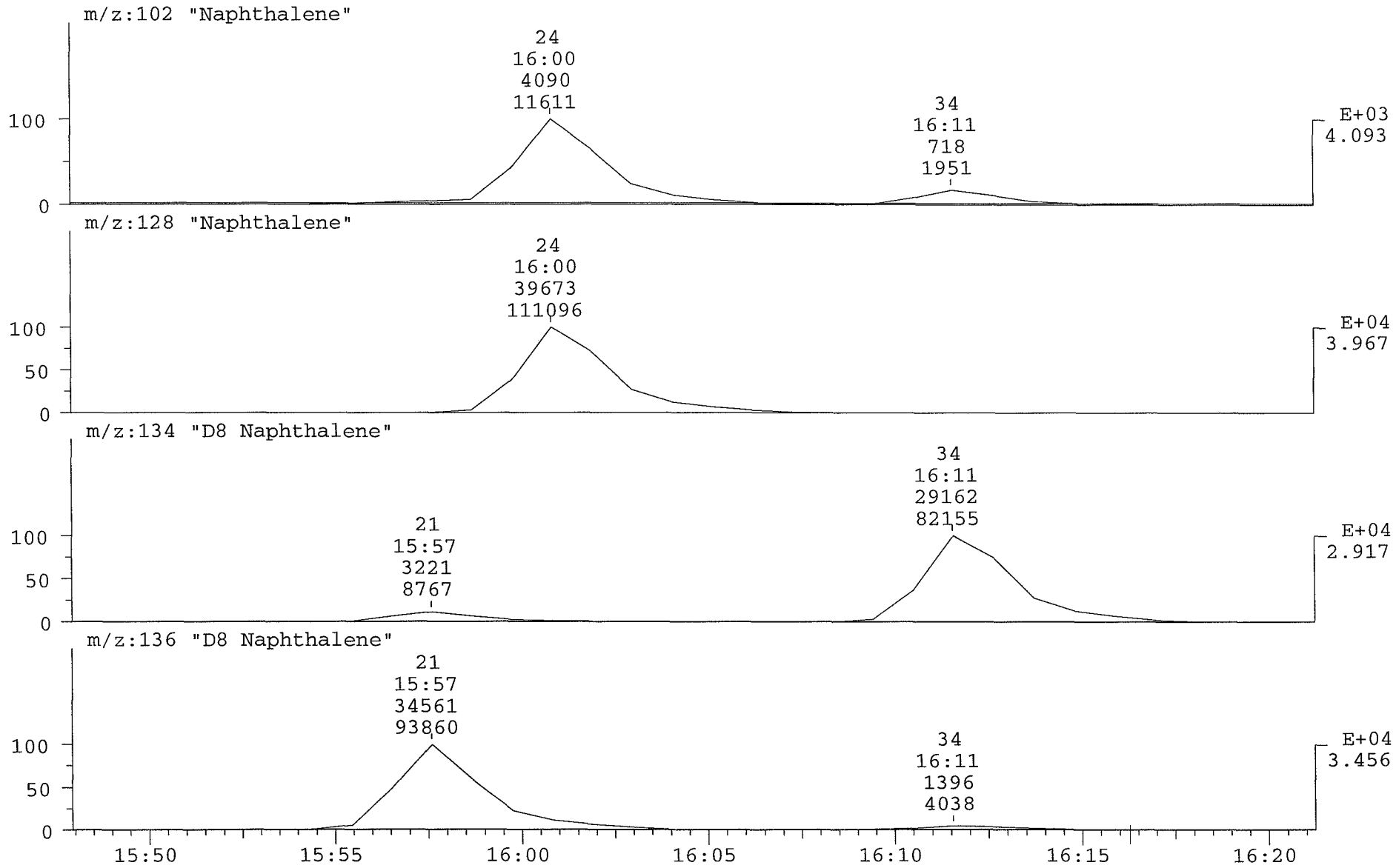
4254

CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1132 > 1191 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

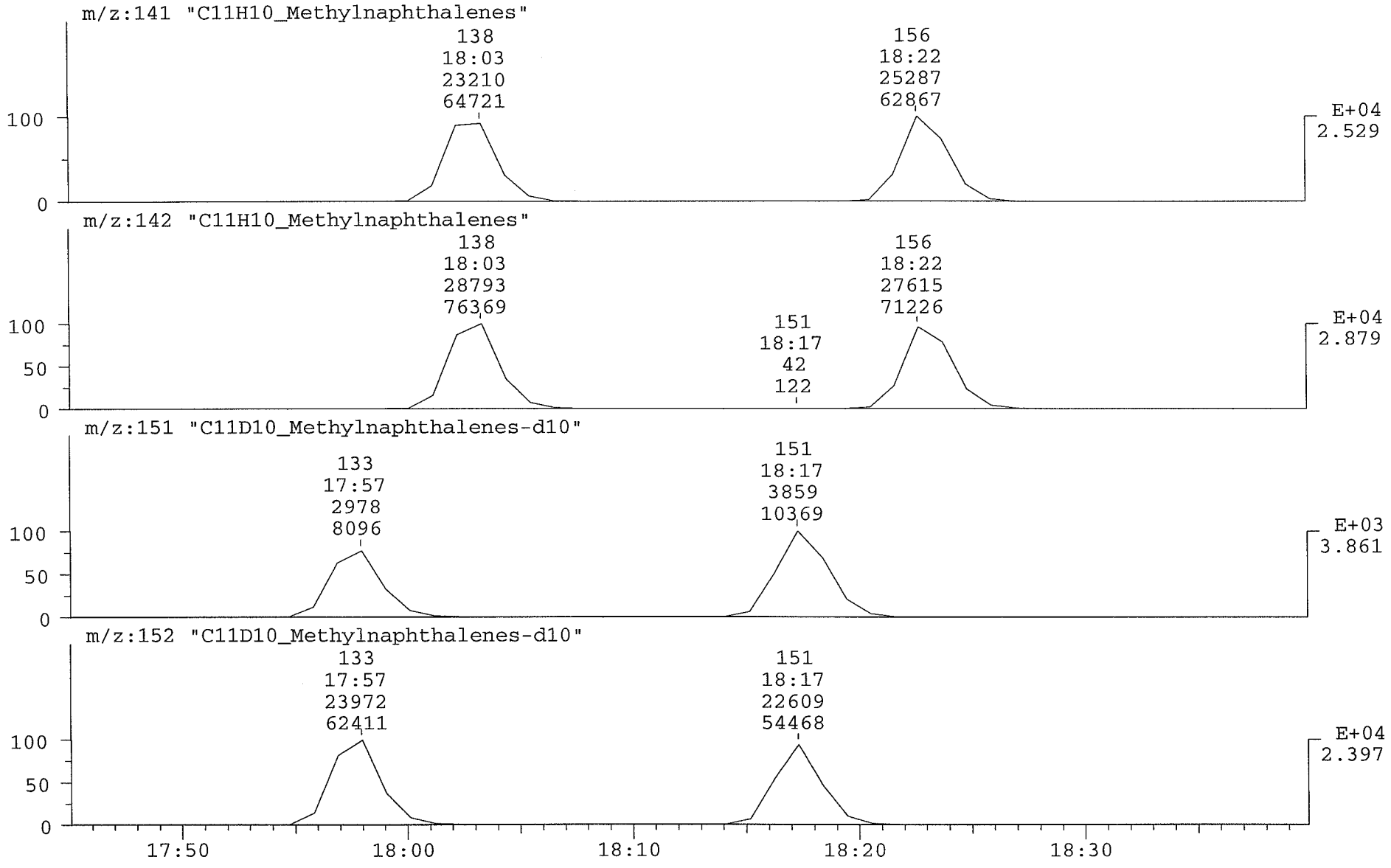


4255

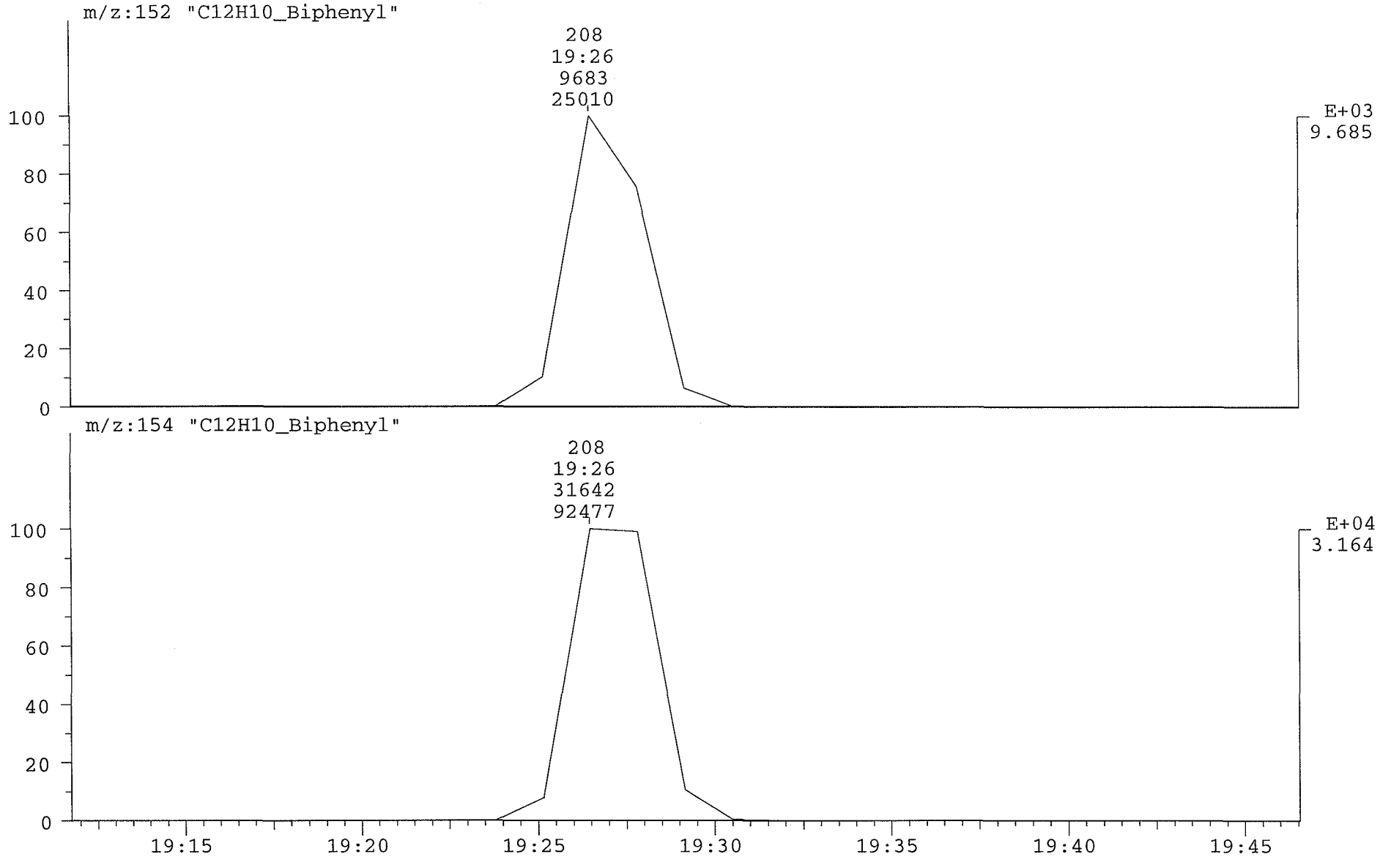
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



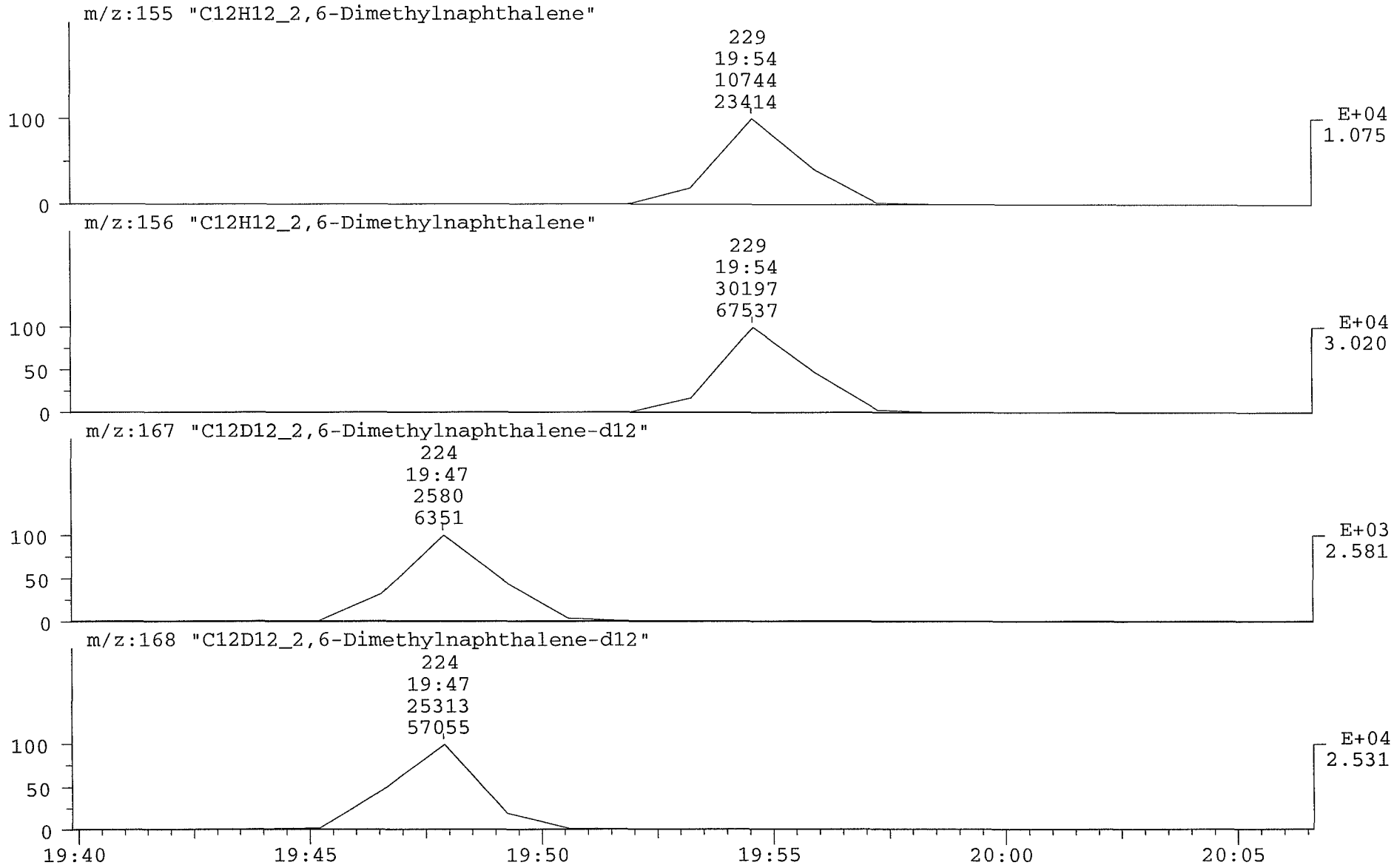
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



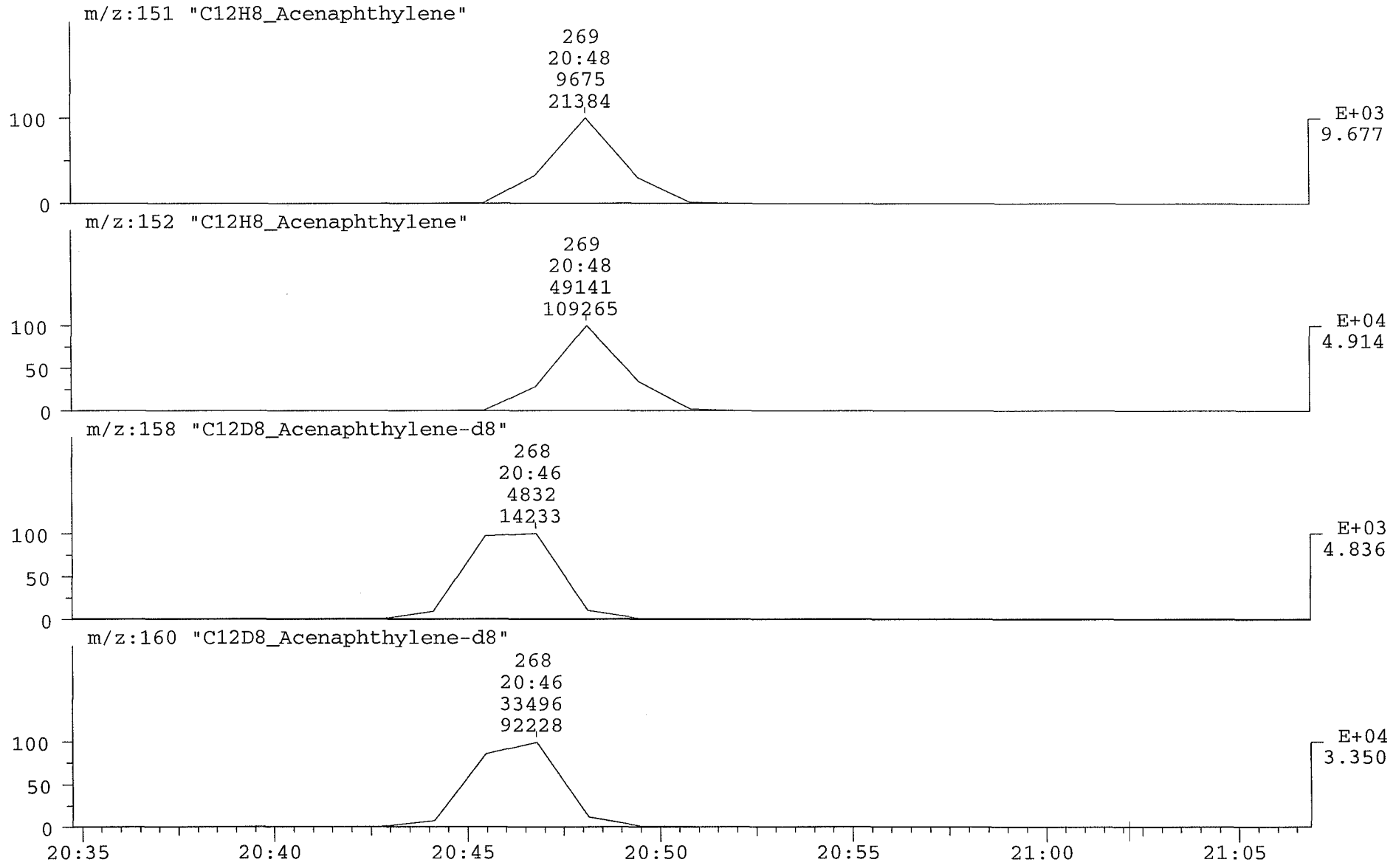
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



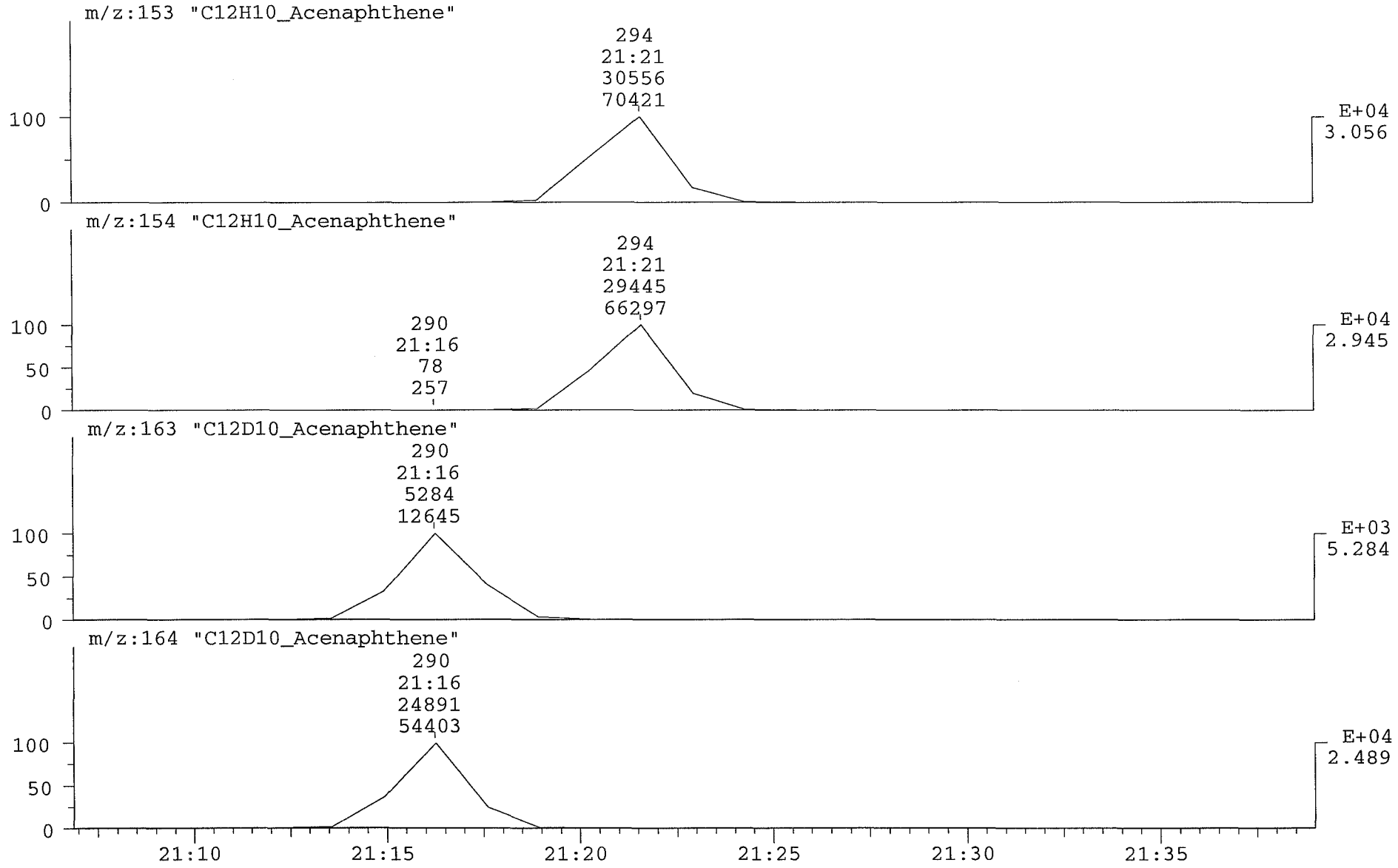
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



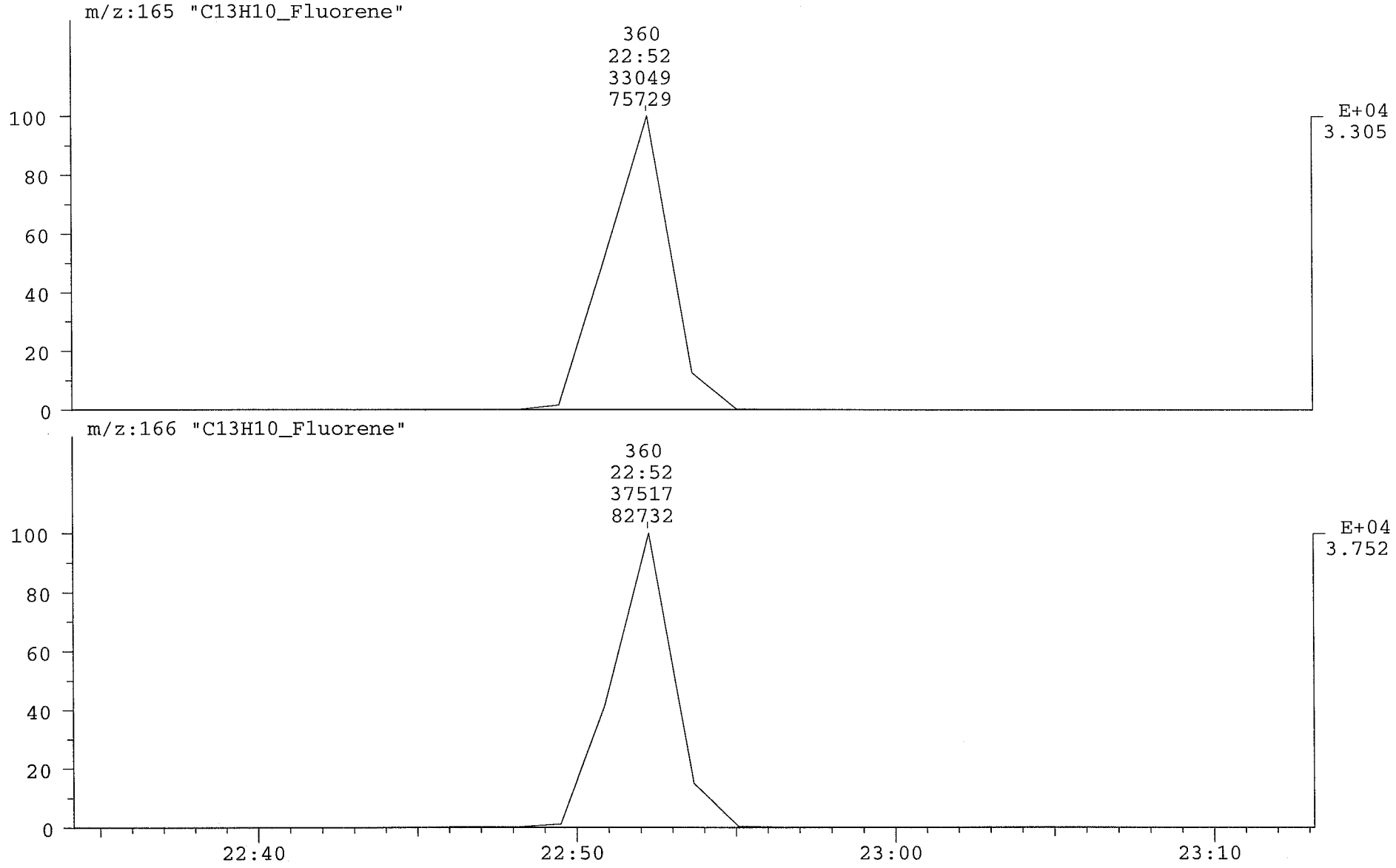
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



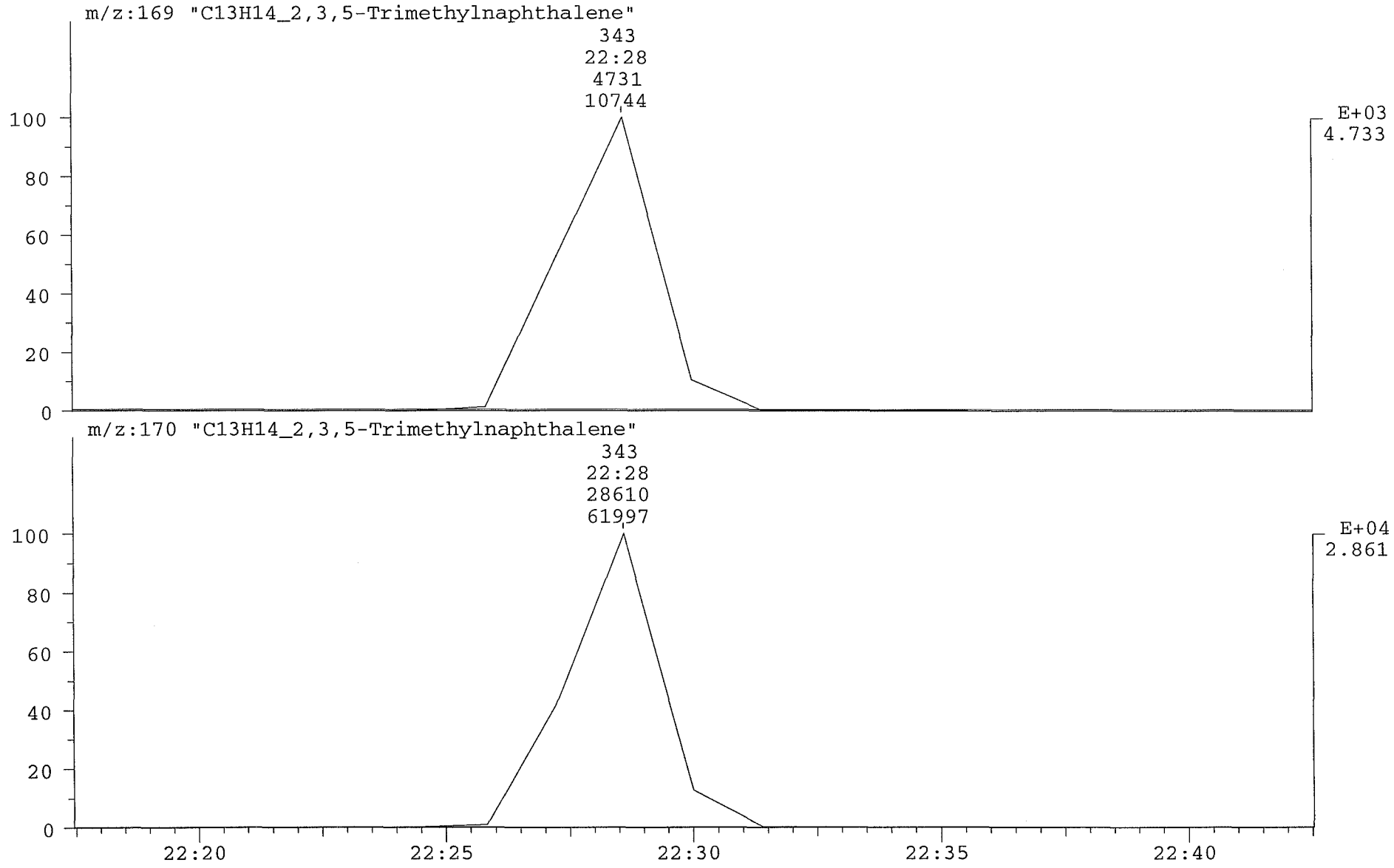
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



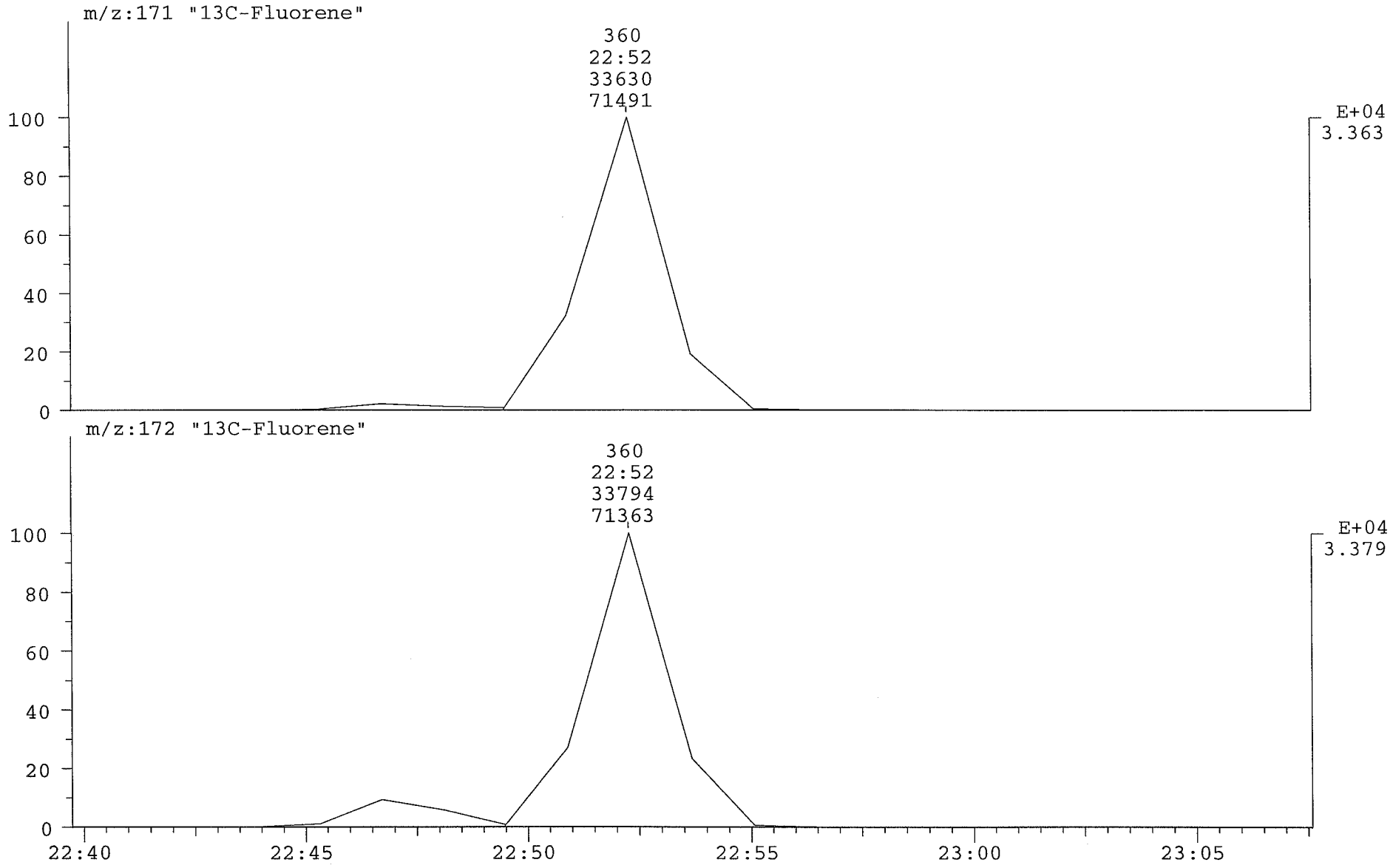
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



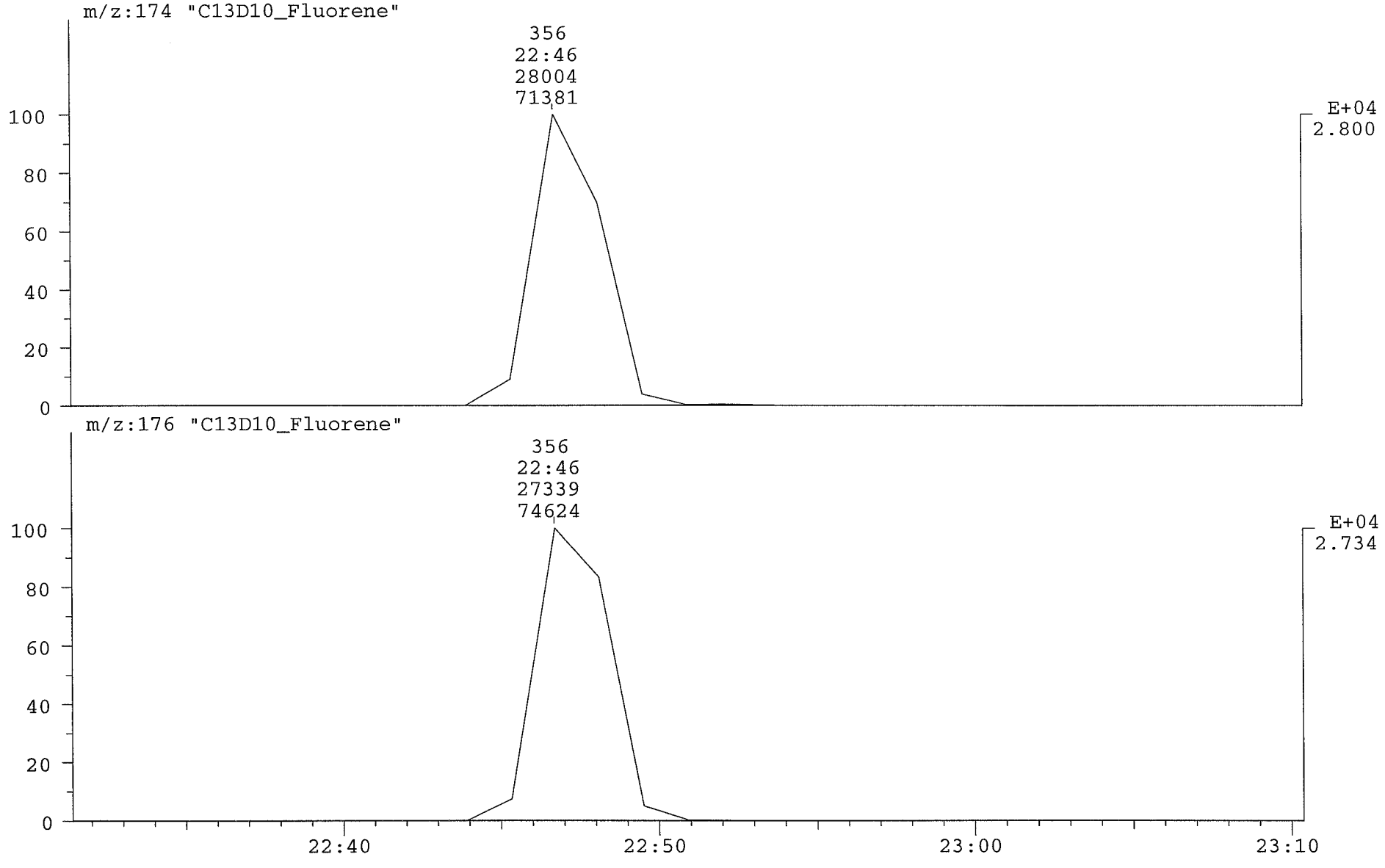
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



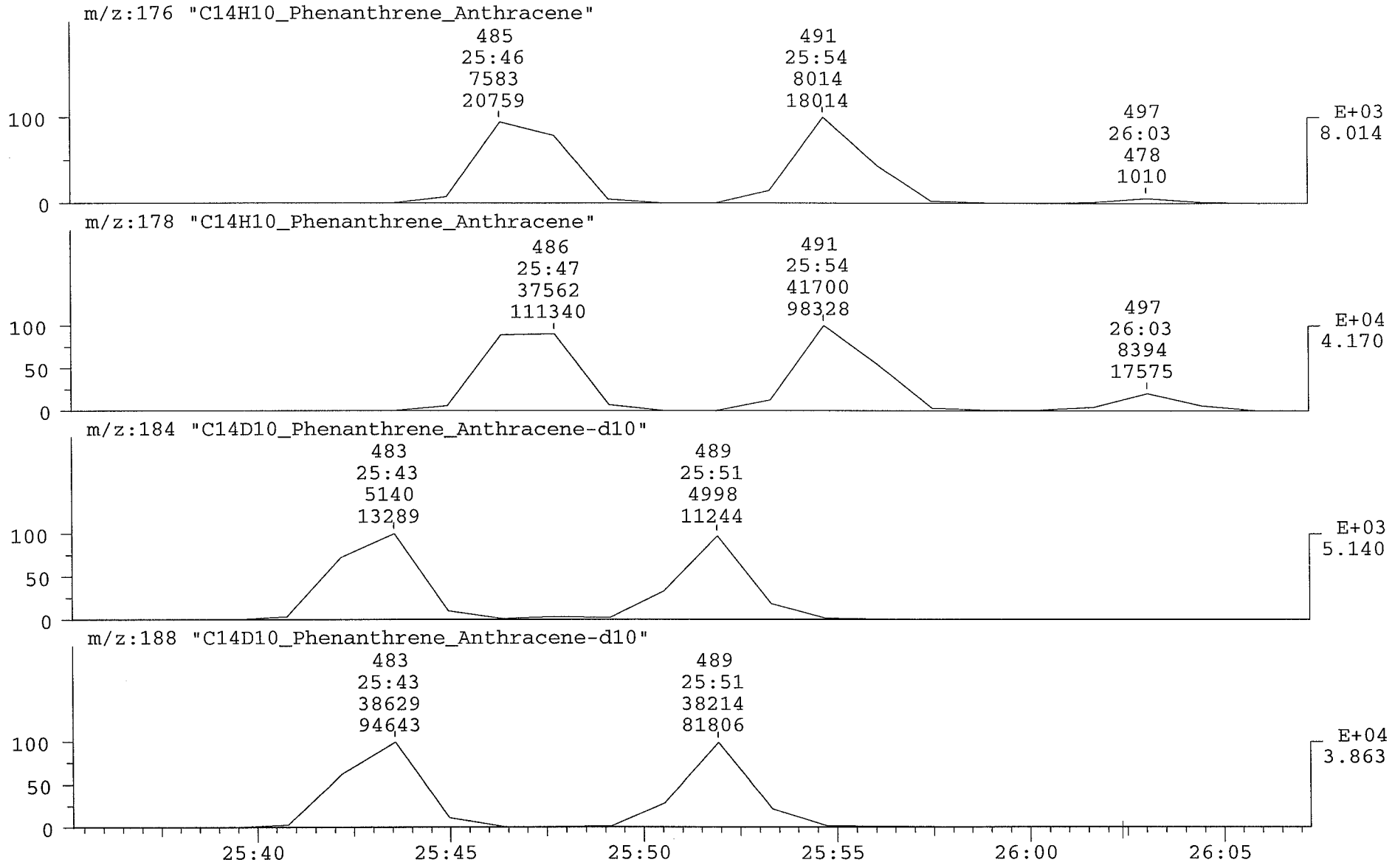
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



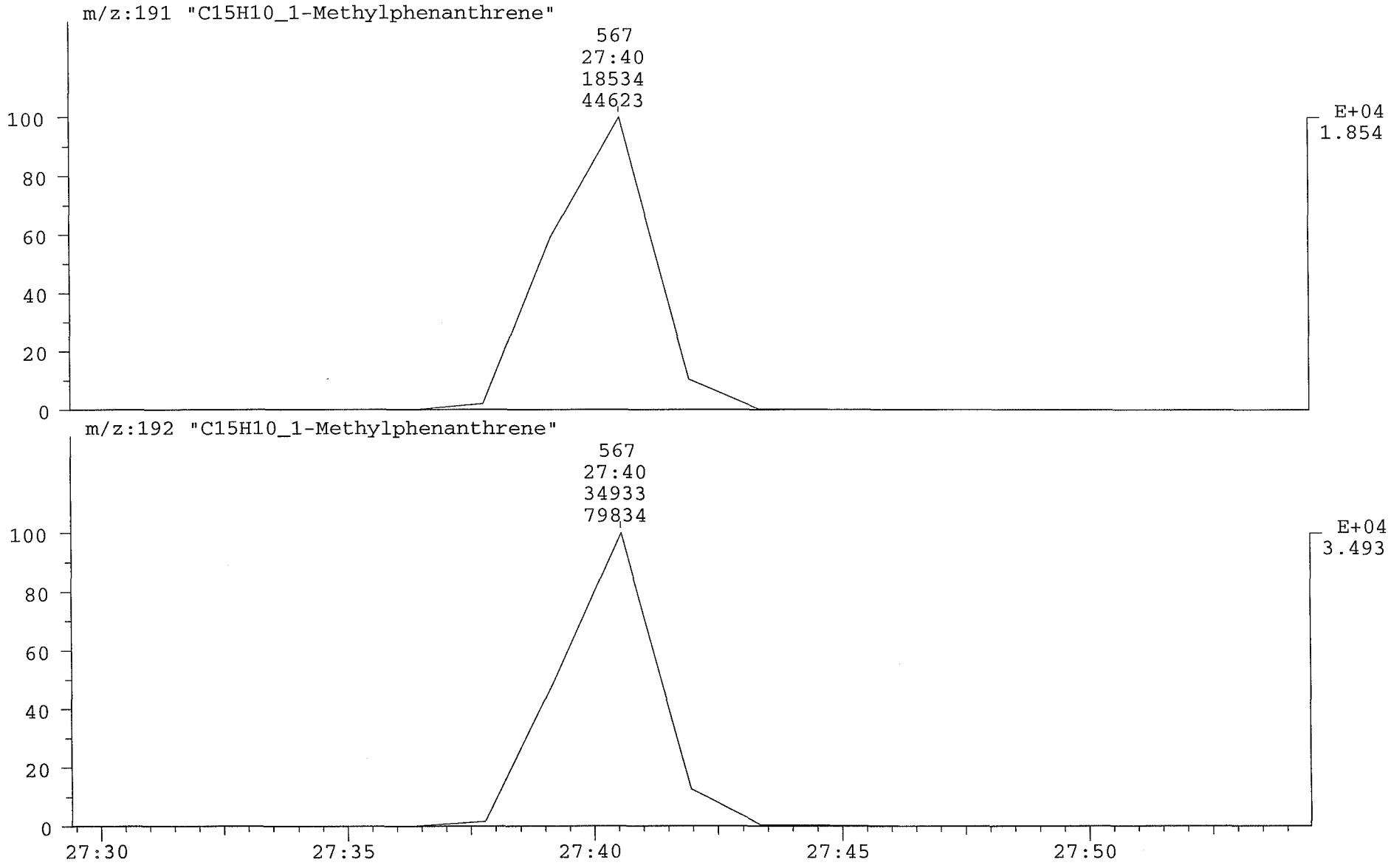
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 345 > 373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



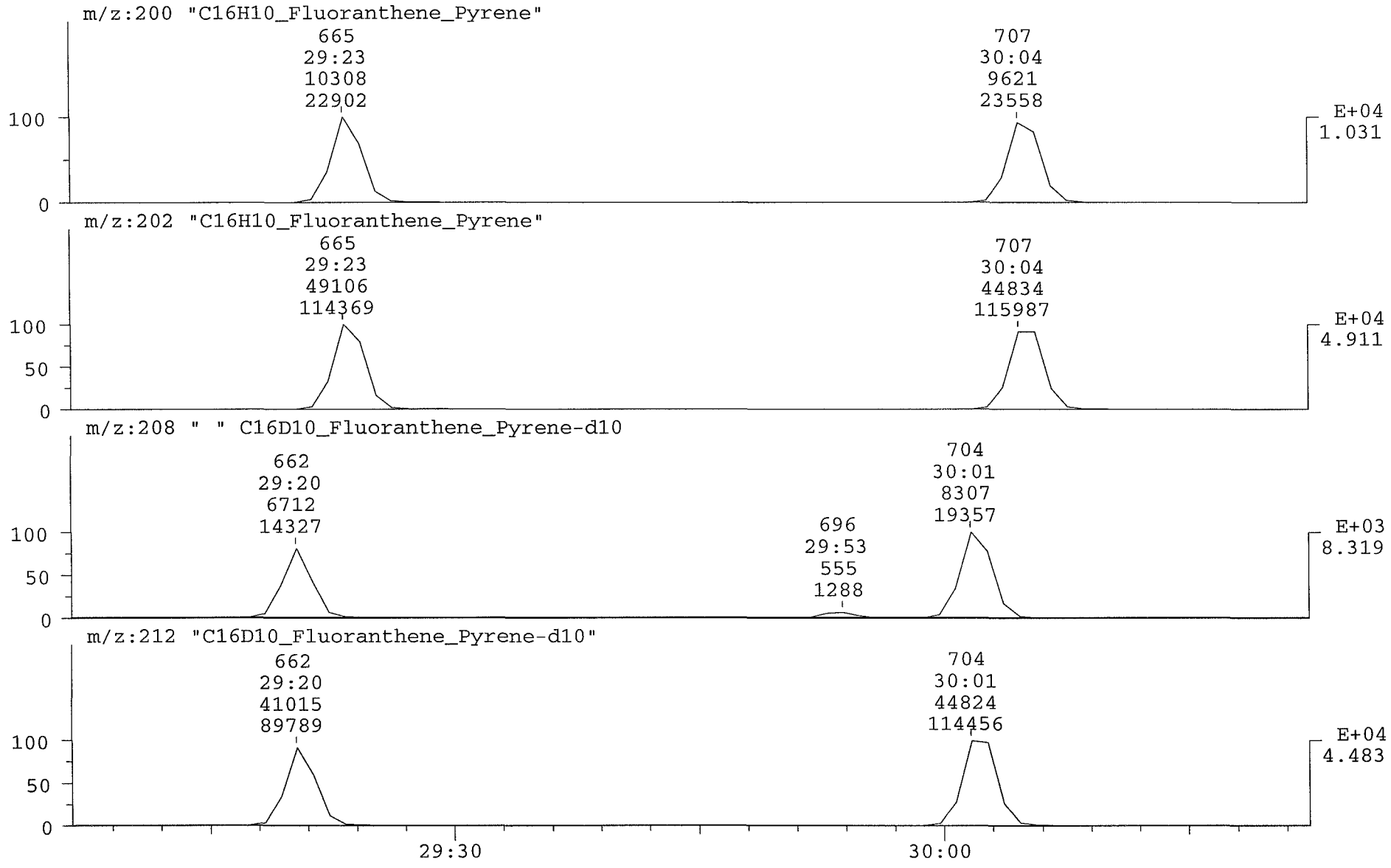
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



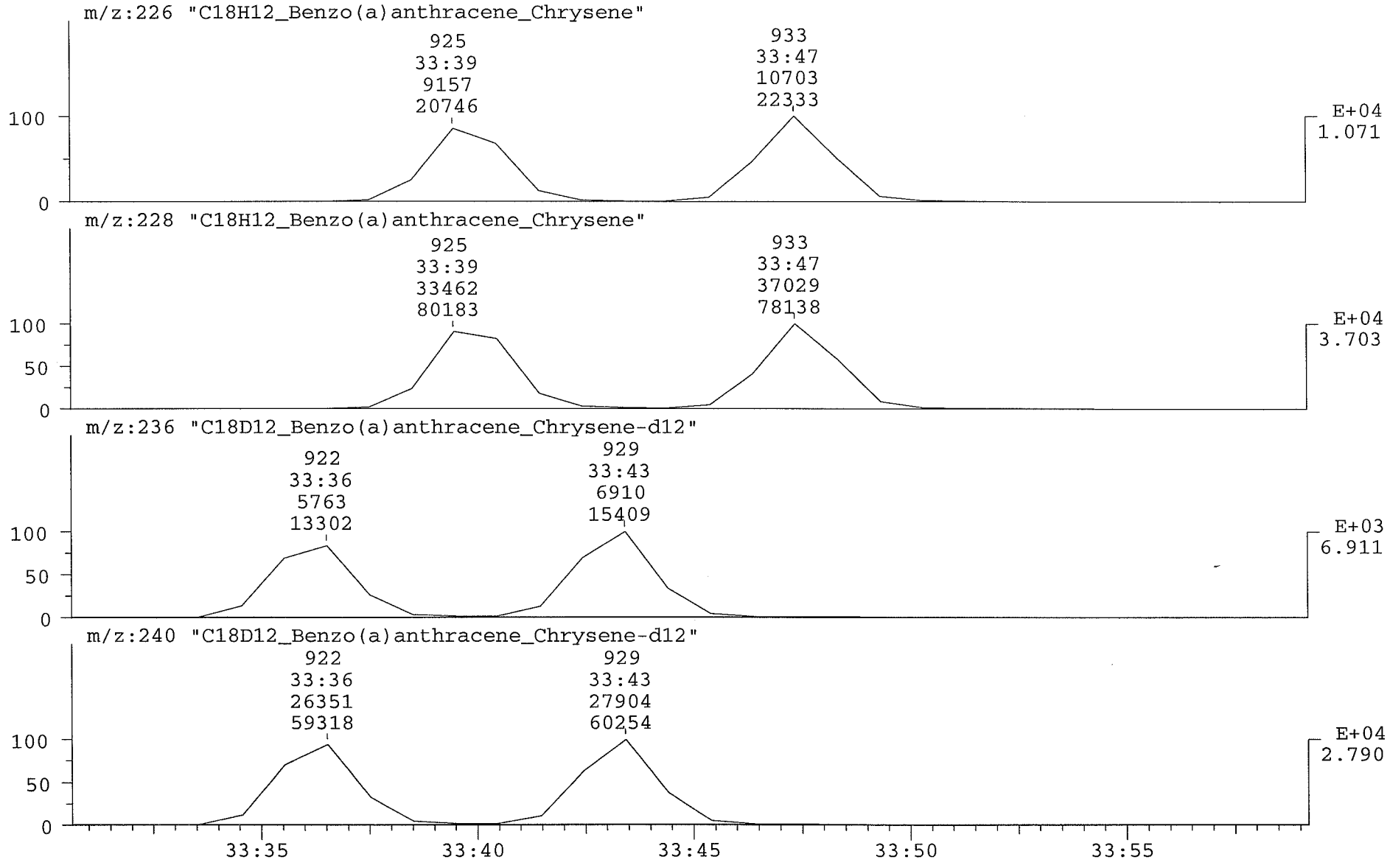
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



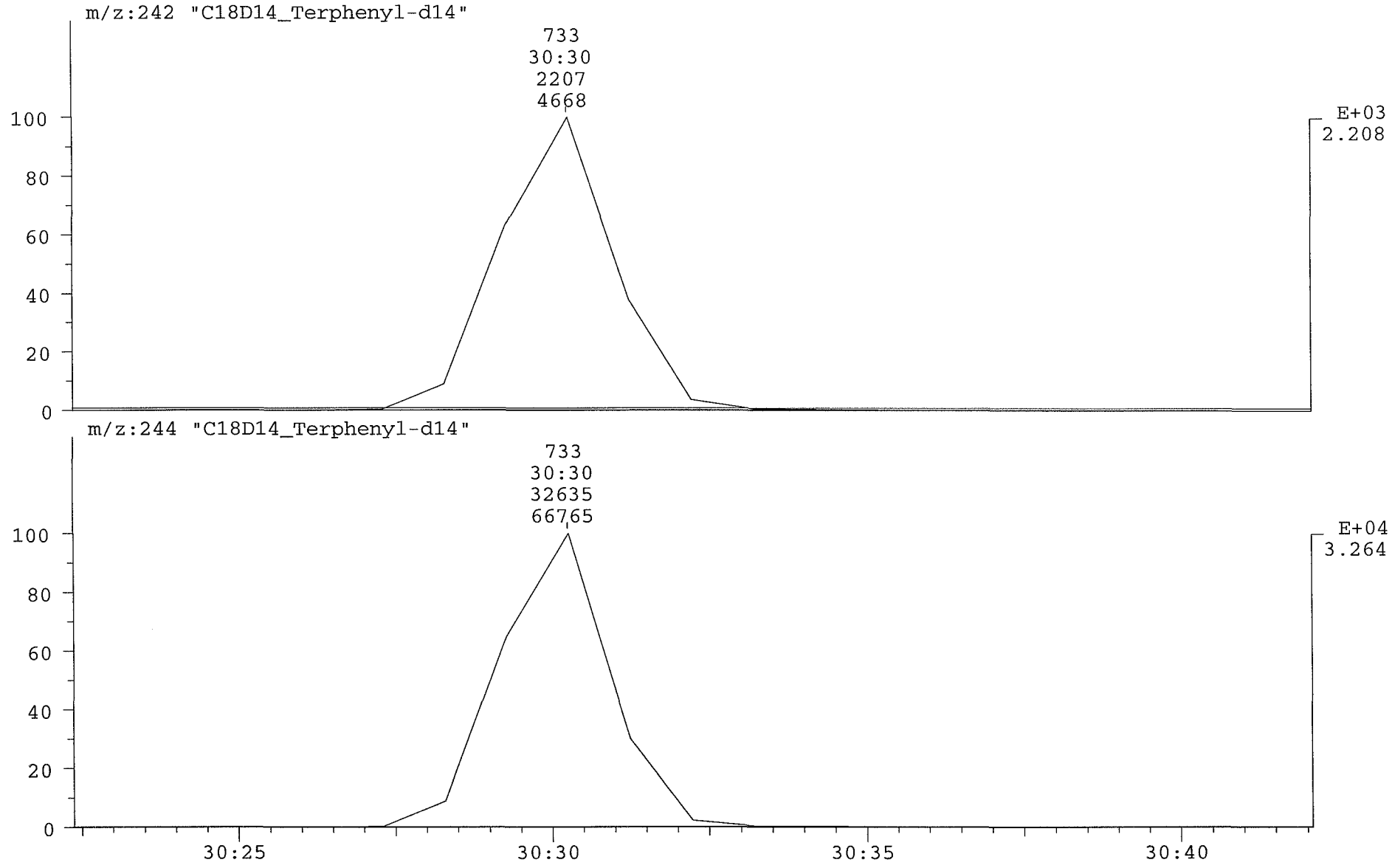
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



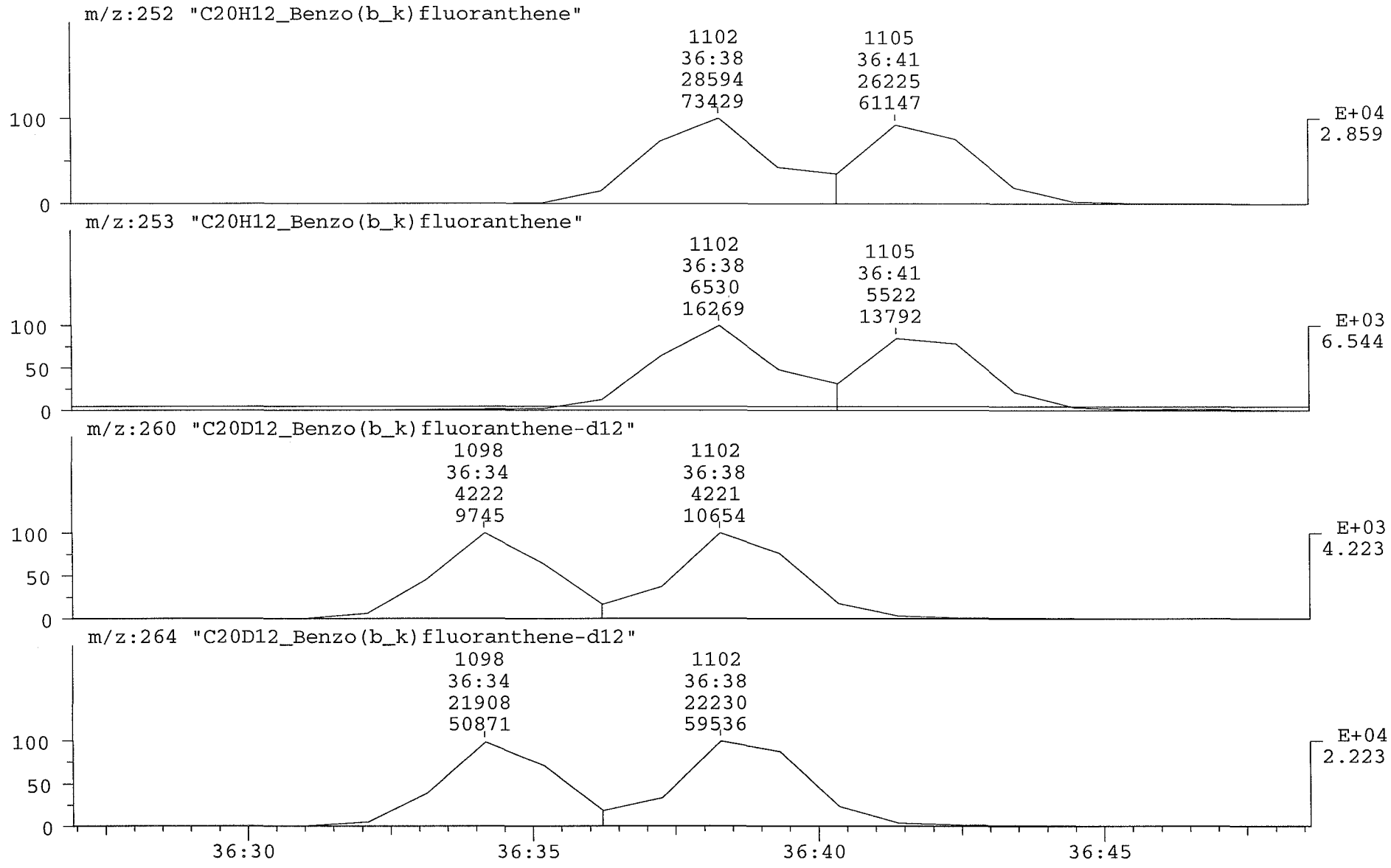
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



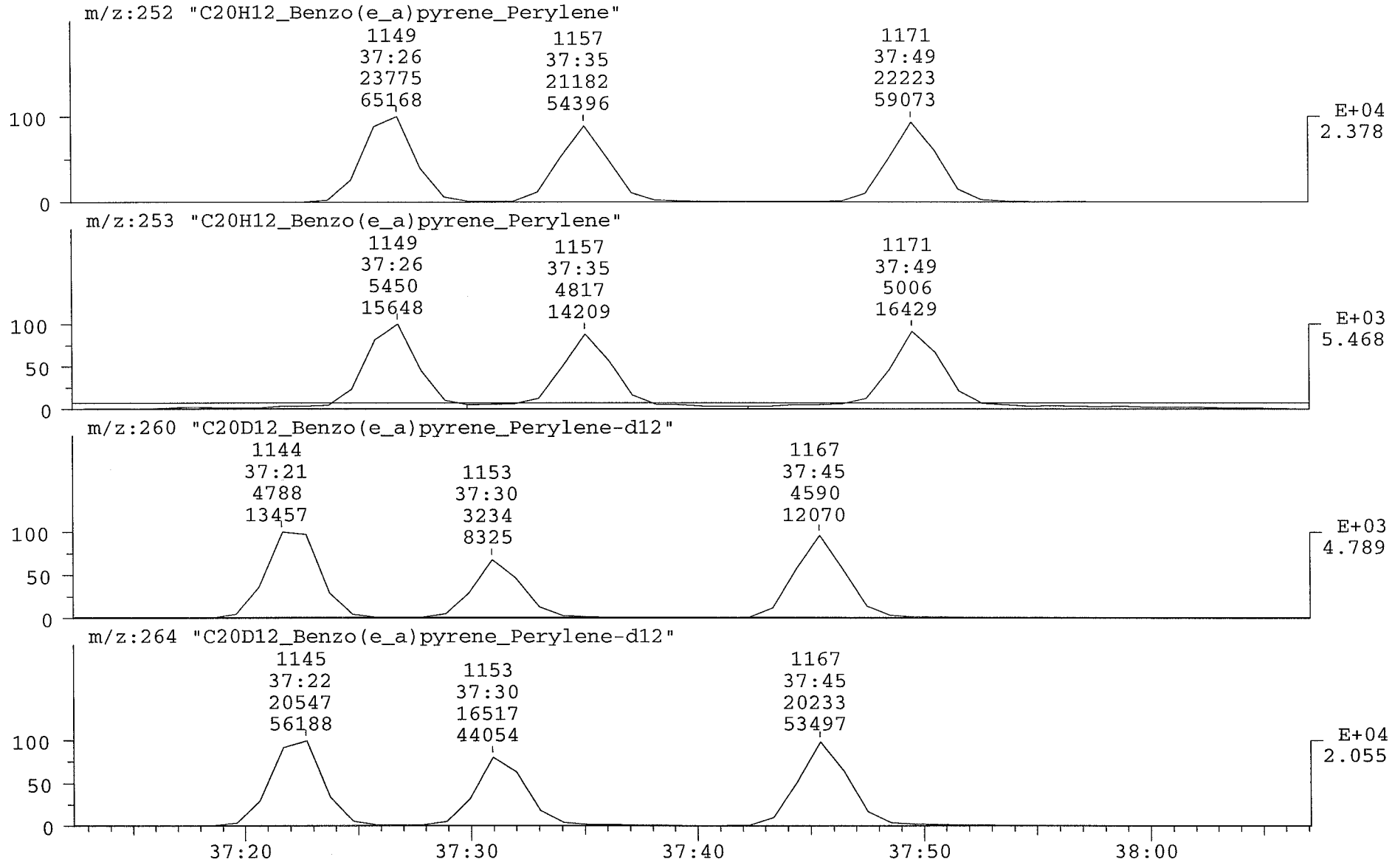
CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 725 > 745 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



```
CHRO:  y060426i4                              26-APR-06   Elapse:   41:00      1327
Samp:  WO=y060426i4 Meth=YA1 Dil=1                        Start :   22:08:00   1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   ICAL
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   1091 > 1112          Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```

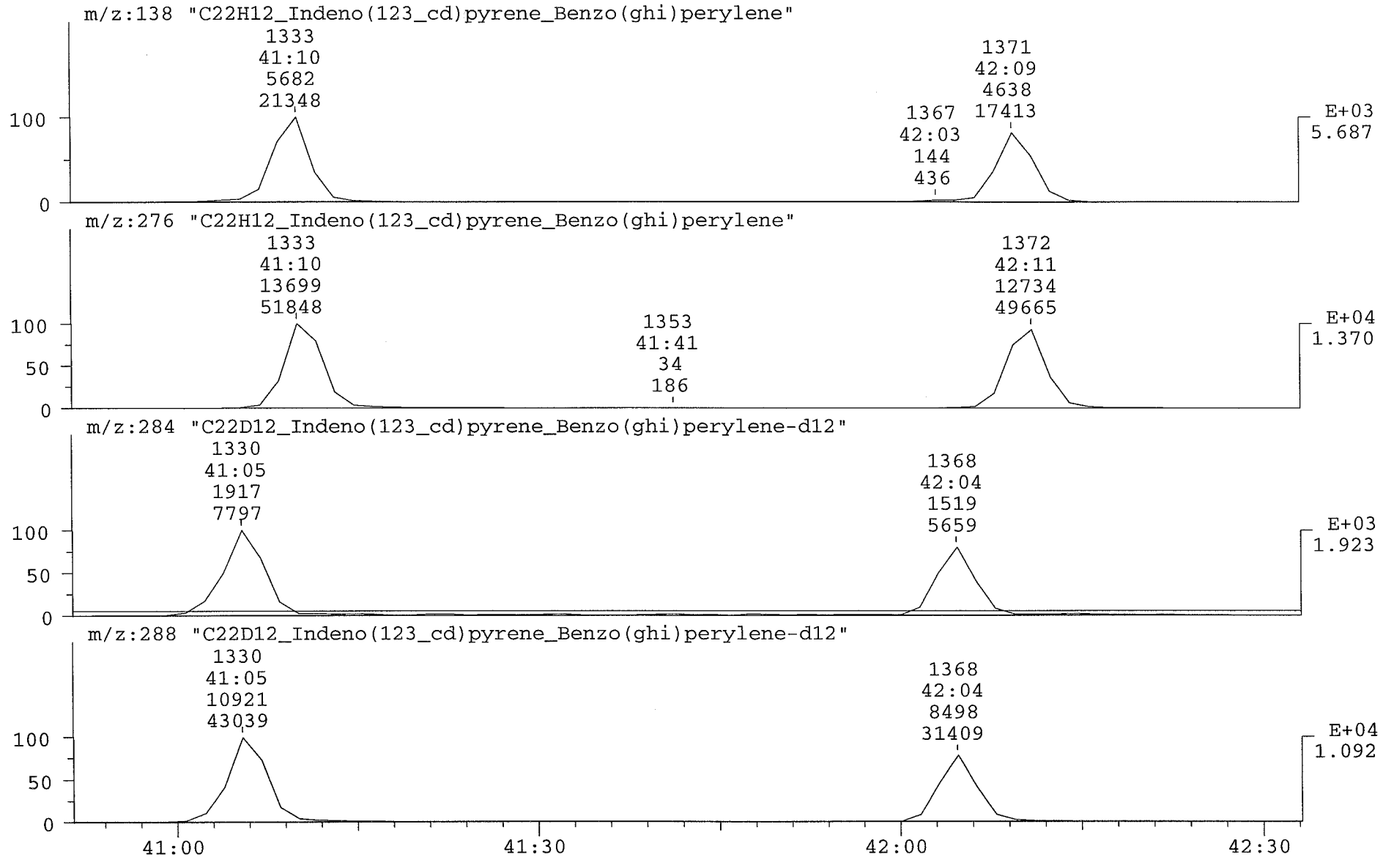


CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

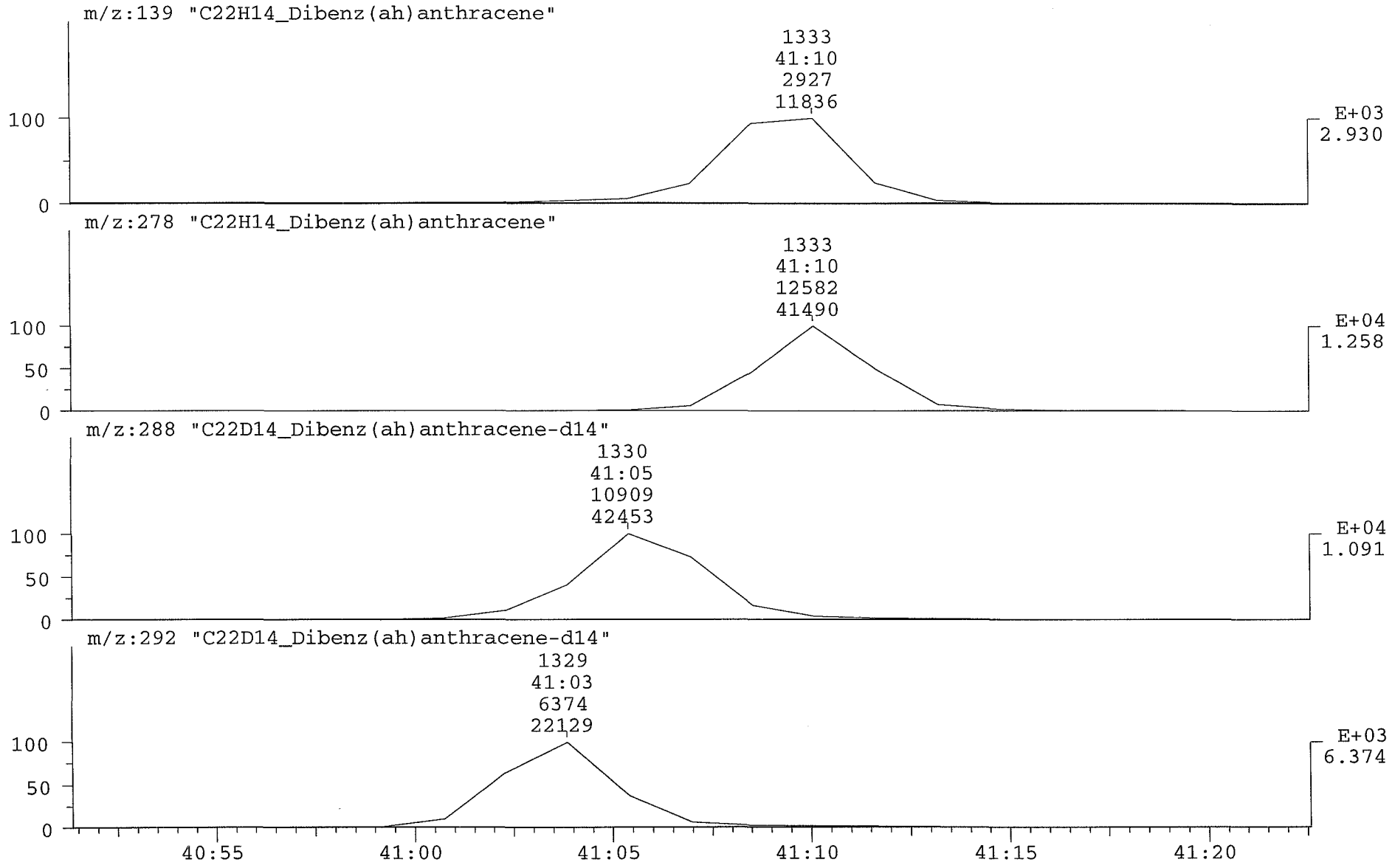


4272

CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i4 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i4 Meth=YA1 Dil=1 Start : 22:08:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: Y60426I4.D
Date Acquired: 26 Apr 2006  10:08 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: Y060426I4
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  5
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Thu Apr 27 12:23:06 2006
d:\cdffiles\Y60426I4.CDF Translated at Thu Apr 27 12:23:06 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 06:49:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60426i4.dat
NetCDF File (input): /usr/users/hp/data/y60426i4.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 06:49:01 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I5	Prep Batch		Lot No	
Data File	/20060426i/y060426i5.d	Prep Date		SDG No	
Analysis ID	90318	Prep Exp Date		Date Received	
Analysis Date	4/26/2006	Matrix	UNKNOWN	Date Sampled	
Analysis Time	22:58	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:57	117742	44713	1.000	500.0	848.199749	169.64	848.199749	0.314
Naphthalene	16:00	274100	96722	1.000	1000	1163.98566	116.40	1163.98566	0.335
~~1,4-Dichlorobenzene-d4~~					~~500.0~~			~~ND~~	~~0.000000~~
~~1,4-Dichlorobenzene~~				~~1.000~~	~~1000~~			~~ND~~	~~0.000000~~
2-Methylnaphthalene	18:03	191930	75535	1.000	1000	1212.72052	121.27	1212.72052	0.237
2-Methylnaphthalene-d10	17:58	79132	31596	1.000	500.0	570.057775	114.01	570.057775	0.353
1-Methylnaphthalene	18:22	181497	70571	1.000	1000	1299.78659	129.98	1299.78659	0.252
1-Methylnaphthalene-d10	18:17	69818	29816	1.000	500.0	502.960796	100.59	502.960796	0.353
~~1-Chloronaphthalene~~				~~1.000~~	~~1000~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene~~				~~1.000~~	~~1000~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene-d7~~					~~500.0~~			~~ND~~	~~0.000000~~
Biphenyl	19:26	236315	82297	1.000	1000	1493.16964	149.32	1493.16964	0.712
2,6-Dimethylnaphthalene	19:54	173753	78543	1.000	1000	1177.39575	117.74	1177.39575	1.43
2,6-Dimethylnaphthalene-d1	19:47	73787	33186	1.000	500.0	531.553013	106.31	531.553013	0.275
~~C2 Alkylnaphthalenes~~				~~1.000~~		~~1177.39575~~		~~1177.39575~~	~~1.06~~
Acenaphthylene	20:48	286781	130586	1.000	1000	1189.65660	118.97	1189.65660	0.264
Acenaphthylene-d8	20:46	120531	42575	1.000	500.0	868.291383	173.66	868.291383	0.196
Acenaphthene-d10	21:16	69407	31868	1.000	500.0	500.000000	100.00	500.000000	0.157
Acenaphthene	21:21	170931	75950	1.000	1000	709.074844	70.91	709.074844	0.528
2,3,5-Trimethylnaphthalene	22:28	161695	74314	1.000	1000	1095.68759	109.57	1095.68759	0.226
~~C3 Alkylnaphthalenes~~				~~1.000~~		~~1095.68759~~		~~1095.68759~~	~~0.168~~
Fluorene d-10	22:46	191607	70788	1.000	1000	763.812705	76.38	763.812705	0.102
Fluorene-C13	22:52	179420	85048	1.000	1000	715.231049	71.52	715.231049	0.0765
Fluorene	22:52	215830	98932	1.000	1000	860.374079	86.04	860.374079	0.179
Phenanthrene-d10	25:43	125428	48994	1.000	500.0	416.444214	83.29	416.444214	0.126
Phenanthrene	25:47	291520	98986	1.000	1000	1162.10097	116.21	1162.10097	0.128
Anthracene-d10	25:52	108248	50495	1.000	500.0	359.403429	71.88	359.403429	0.126
Anthracene	25:54	265025	114497	1.000	1000	1056.48260	105.65	1056.48260	0.128
1-Methylphenanthrene	27:40	211568	93537	1.000	1000	843.384252	84.34	843.384252	0.255
Fluoranthene-d10	29:20	121209	55620	1.000	500.0	402.436352	80.49	402.436352	0.147
Fluoranthene	29:23	303953	131830	1.000	1000	1253.83841	125.38	1253.83841	0.180
Pyrene-d10	30:01	150594	59717	1.000	500.0	500.000000	100.00	500.000000	0.147
Pyrene	30:05	306355	120029	1.000	1000	1263.74692	126.37	1263.74692	0.180
Terphenyl-d14	30:30	172105	84357	1.000	1000	709.951406	71.00	709.951406	0.0449
Benzo(a)Anthracene-d12	33:36	81300	36627	1.000	500.0	269.931073	53.99	269.931073	0.147
Benzo(a)anthracene	33:39	218575	91486	1.000	1000	1344.24969	134.42	1344.24969	0.239
Chrysene-d12	33:43	81923	38209	1.000	500.0	271.999548	54.40	271.999548	0.147
Chrysene	33:47	210547	101442	1.000	1000	1285.02985	128.50	1285.02985	0.229
Benzo(b)Fluoranthene-d12	36:34	69386	30295	1.000	500.0	466.717787	93.34	466.717787	0.671
Benzo(k)Fluoranthene-d12	36:38	82173	29752	1.000	500.0	552.728227	110.55	552.728227	0.671
Benzo(b)fluoranthene	36:38	196053	79178	1.000	1000	1412.77059	141.28	1412.77059	1.28
Benzo(k)fluoranthene	36:41	166925	68088	1.000	1000	1015.69250	101.57	1015.69250	1.30
Benzo(e)pyrene-d12	37:21	74334	26093	1.000	500.0	500.000000	100.00	500.000000	0.671
Benzo(e)pyrene	37:26	173838	66178	1.000	1000	1428.10903	142.81	1428.10903	1.73
Benzo(a)Pyrene-d12	37:31	60863	22412	1.000	500.0	409.388705	81.88	409.388705	0.671
Benzo(a)pyrene	37:35	151592	60288	1.000	1000	1245.35432	124.54	1245.35432	1.73
Perylene-d12	37:45	73195	27782	1.000	500.0	492.338634	98.47	492.338634	0.671
Perylene	37:49	162185	62499	1.000	1000	1107.89671	110.79	1107.89671	1.39
~~3-Methylcholanthrene~~				~~1.000~~	~~1000~~			~~ND~~	~~0.810~~

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I5	**Prep Batch**		**Lot No**	
Data File	/20060426i/y060426i5.d	**Prep Date**		**SDG No**	
Analysis ID	90318	**Prep Exp Date**		**Date Received**	
Analysis Date	4/26/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	22:58	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:03	30780	8846	1.000	500.0	207.038502	41.41	207.038502	0.287
Indeno(1,2,3-cd)pyrene-d12	41:05	59236	14951	1.000	500.0	398.444857	79.69	398.444857	0.431
Indeno(1,2,3-cd)pyrene	41:10	142611	35583	1.000	1000	1203.75279	120.38	1203.75279	0.752
Dibenz(a,h)anthracene	41:10	115951	36051	1.000	1000	1883.54451	188.35	1883.54451	1.70
Benzo(ghi)Perylene-d12	42:04	42782	11612	1.000	500.0	287.768720	57.55	287.768720	0.431
Benzo(ghi)perylene	42:11	133451	35998	1.000	1000	1559.66294	155.97	1559.66294	0.969
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	1000			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I5	Prep Batch		Lot No	
Data File	/20060426i/y060426i5.d	Prep Date		SDG No	
Analysis ID	90318	Prep Exp Date		Date Received	
Analysis Date	04/26/06 22:58	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	30		12				
	Naphthalene	16:00	00:00	0	274100		96722			ABV	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	20		8				
	Naphthalene-d8	15:57	00:00	0	117742		44713			ABV	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene	18:03	00:00	0	191930		75535			AVV	
	1-Methylnaphthalene	18:22	00:00	0	181497		70571			AVB	
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	23		9				
	2-Methylnaphthalene-d10	17:58	00:00	0	79132		31596			ABB	
	1-Methylnaphthalene-d10	18:17	00:00	0	69818		29816			ABB	
	Acenaphthylene	20:48	00:00	0	286781		130586			ABB	M
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	45		18				
	Biphenyl	19:26	00:00	0	236315		82297			ABB	
	Acenaphthene	21:21	00:00	0	170931		75950			AVB	M
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	95		38				
	2,6-Dimethylnaphthalene	19:54	00:00	0	173753		78543			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	13		5				
	Acenaphthylene-d8	20:46	00:00	0	120531		42575			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	10		4				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	10		4				
	Acenaphthene-d10	21:16	00:00	0	69407		31868			ABB	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	18		7				
	Fluorene	22:52	00:00	0	215830		98932			AVB	M
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	18		7				
	2,6-Dimethylnaphthalene	19:47	00:00	0	73787		33186			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	15		6				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	15		6				
	2,3,5-Trimethylnaphthal	22:28	00:00	0	161695		74314			ABB	M
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	8		3				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I5	Prep Batch		Lot No	
Data File	/20060426i/y060426i5.d	Prep Date		SDG No	
Analysis ID	90318	Prep Exp Date		Date Received	
Analysis Date	04/26/06 22:58	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					**172.0000**		**172.0000**				
	Fluorene-C13	22:52	00:00	0	179420		85048			AVB	M
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	10		4				
	Fluorene d-10	22:46	00:00	0	191607		70788			ABB	M
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	13		5				
	Phenanthrene	25:47	00:00	0	291520		98986			ABV	M
	Anthracene	25:54	00:00	0	265025		114497			AVV	M
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene-d10	25:43	00:00	0	125428		48994			ABV	M
	Anthracene-d10	25:52	00:00	0	108248		50495			AVB	M
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	25		10				
	1-Methylphenanthrene	27:40	00:00	0	211568		93537			ABB	M
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene	29:23	00:00	0	303953		131830			ABV	M
	Pyrene	30:05	00:00	0	306355		120029			ABV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene-d10	29:20	00:00	0	121209		55620			ABV	
	Pyrene-d10	30:01	00:00	0	150594		59717			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)anthracene	33:39	00:00	0	218575		91486			ABV	M
	Chrysene	33:47	00:00	0	210547		101442			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)Anthracene-d12	33:36	00:00	0	81300		36627			ABV	
	Chrysene-d12	33:43	00:00	0	81923		38209			AVB	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	5		2				
	Terphenyl-d14	30:30	00:00	0	172105		84357			ABB	
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	78		31				
	Benzo(b)fluoranthene	36:38	00:00	0	196053		79178			ABV	M
	Benzo(k)fluoranthene	36:41	00:00	0	166925		68088			AVB	M
	Benzo(e)pyrene	37:26	00:00	0	173838		66178			ABV	M
	Benzo(a)pyrene	37:35	00:00	0	151592		60288			AVV	M
	Perylene	37:49	00:00	0	162185		62499			AVB	M
264					**264.0000**		**264.0000**				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I5	Prep Batch		Lot No	
Data File	/20060426i/y060426i5.d	Prep Date		SDG No	
Analysis ID	90318	Prep Exp Date		Date Received	
Analysis Date	04/26/06 22:58	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

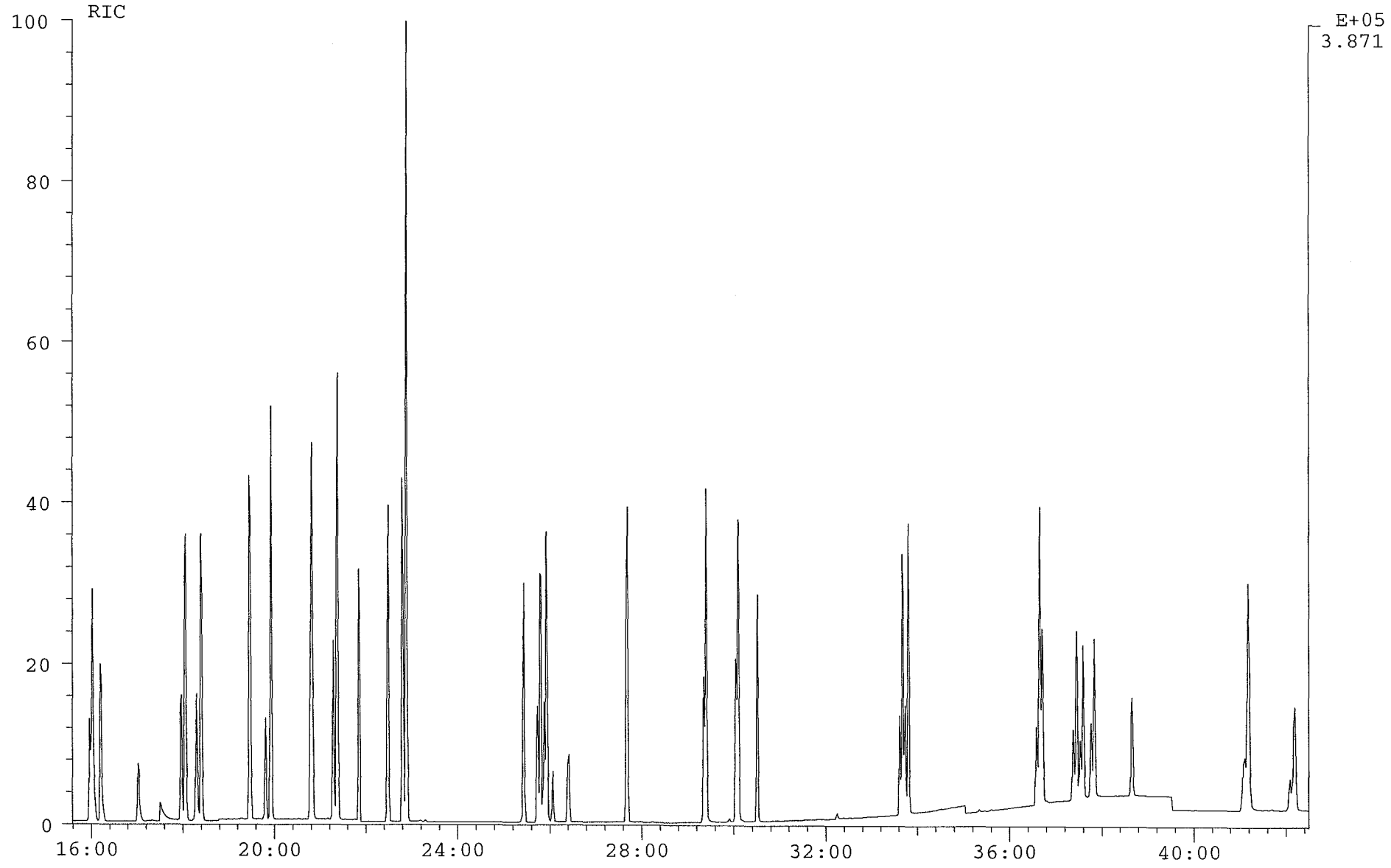
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	35		14				
	Benzo(b)Fluoranthene-d1	36:34	00:00	0	69386		30295			ABV	M
	Benzo(k)Fluoranthene-d1	36:38	00:00	0	82173		29752			AVB	M
	Benzo(e)pyrene-d12	37:21	00:00	0	74334		26093			ABV	M
	Benzo(a)Pyrene-d12	37:31	00:00	0	60863		22412			AVV	M
	Perylene-d12	37:45	00:00	0	73195		27782			AVV	M
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	45		18				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	23		9				
	Indeno(1,2,3-cd)pyrene	41:10	00:00	0	142611		35583			ABV	
	Benzo(ghi)perylene	42:11	00:00	0	133451		35998			ABB	M
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	30		12				
	Dibenz(a,h)anthracene	41:10	00:00	0	115951		36051			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	23		9				
	Indeno(1,2,3-cd)pyrene-	41:05	00:00	0	59236		14951			ABV	
	Benzo(ghi)Perylene-d12	42:04	00:00	0	42782		11612			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	15		6				
	Dibenz(ah)Anthracene-d1	41:03	00:00	0	30780		8846			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	8		3				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	8		3				

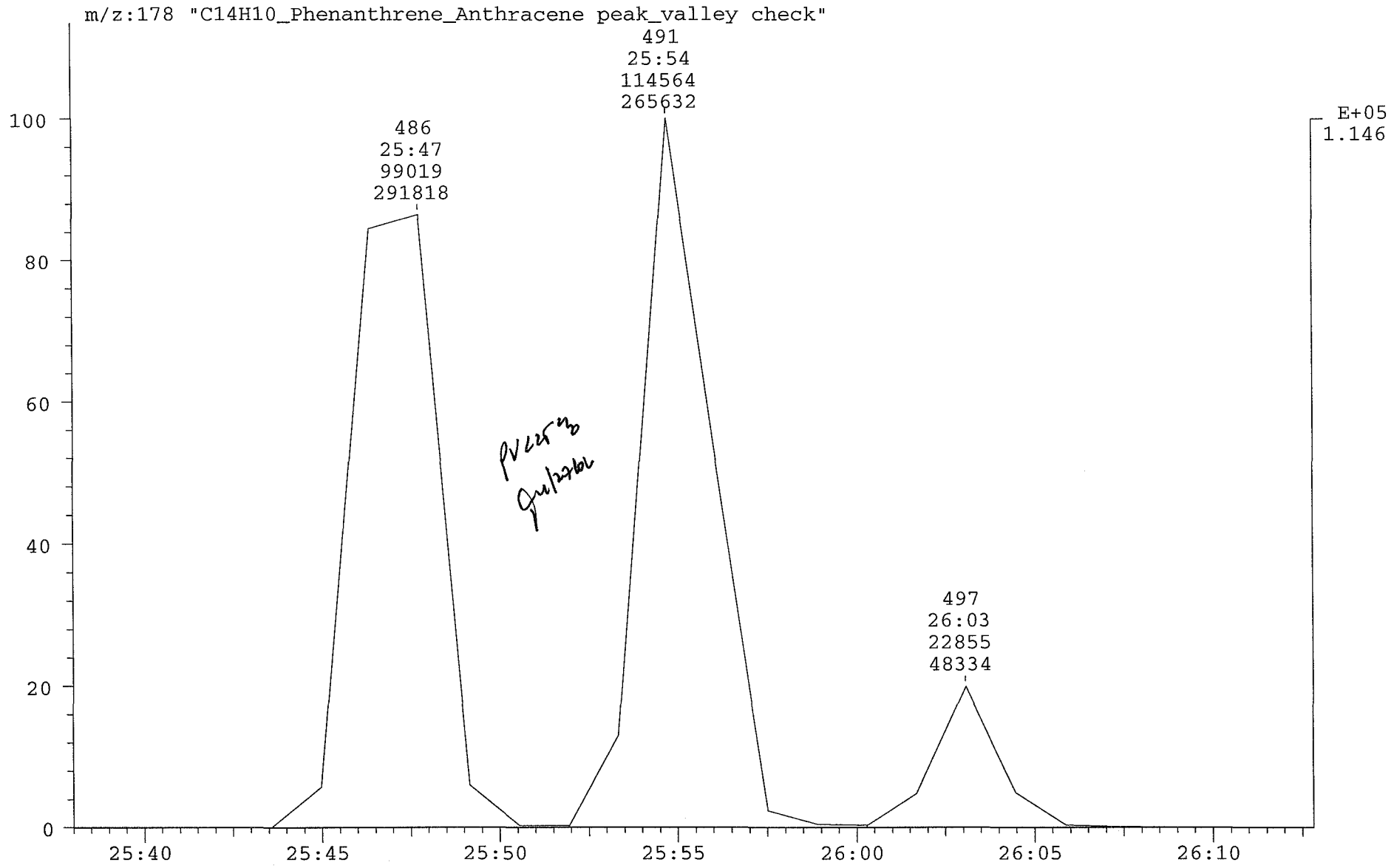
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Cal/Calc: JN 4/27/06
QC VMIC 4/27/06

CHRO: y060426i5 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1731 > 1739 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area

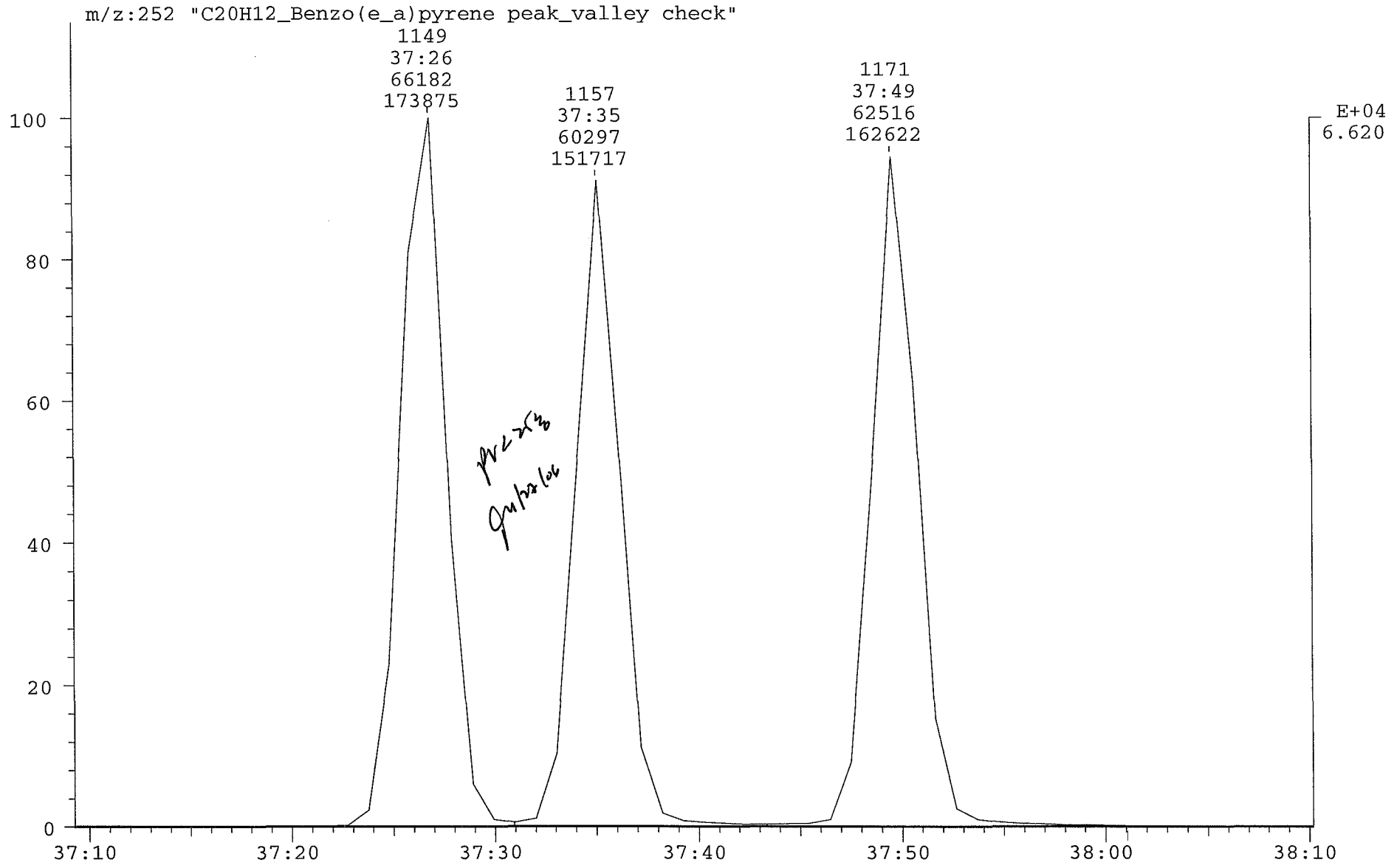


CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 479 > 504 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

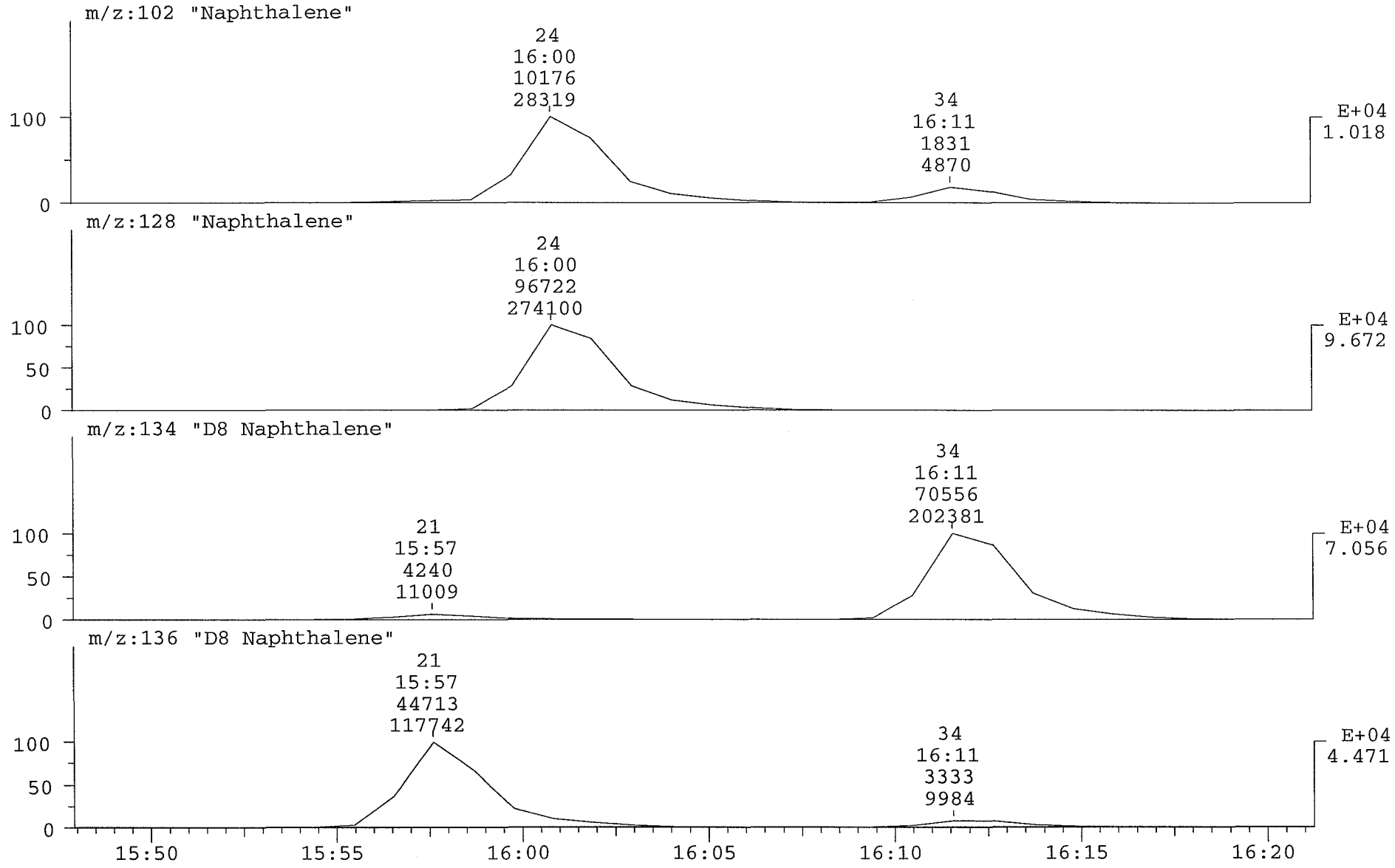


4282

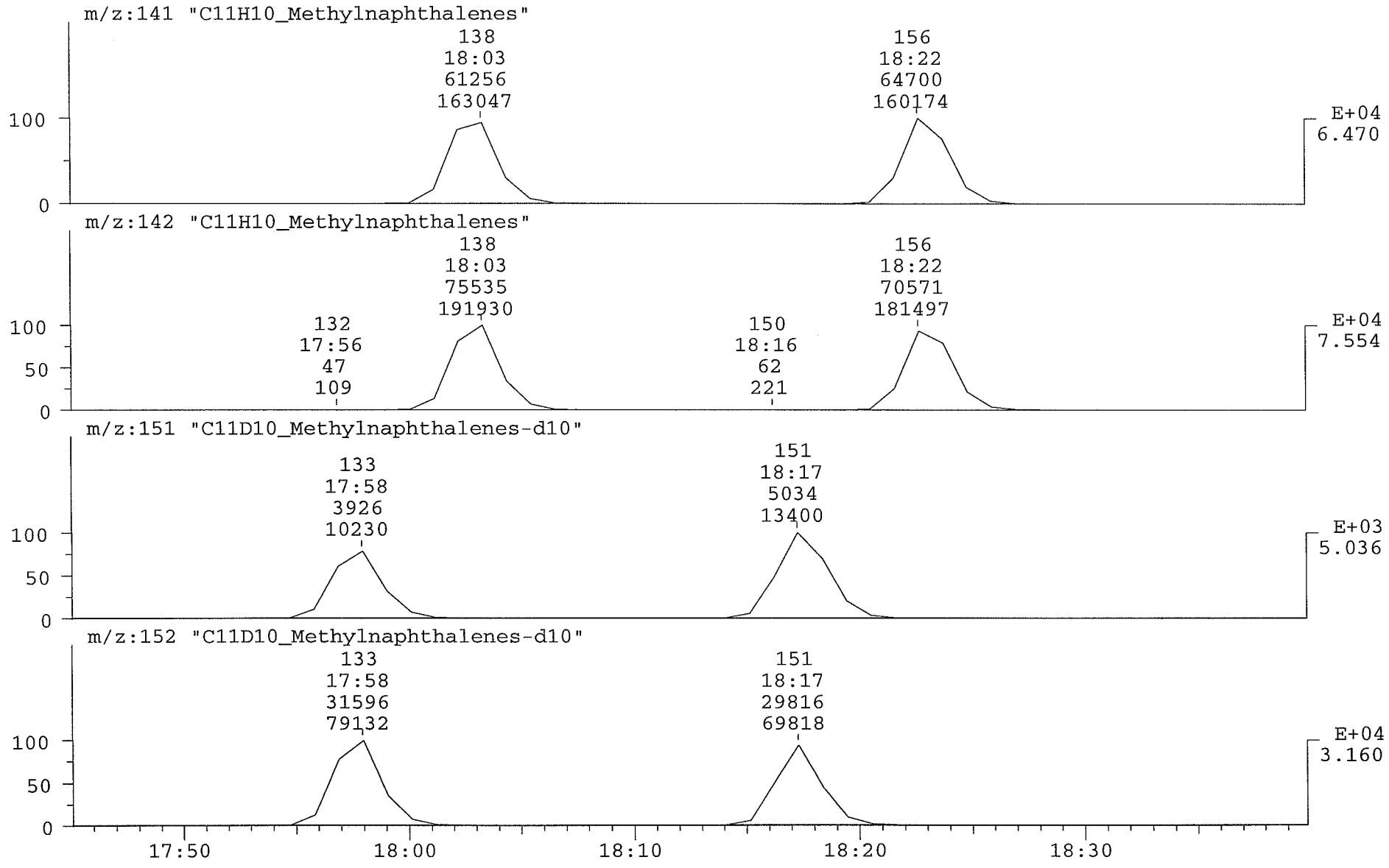
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1132 > 1191 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



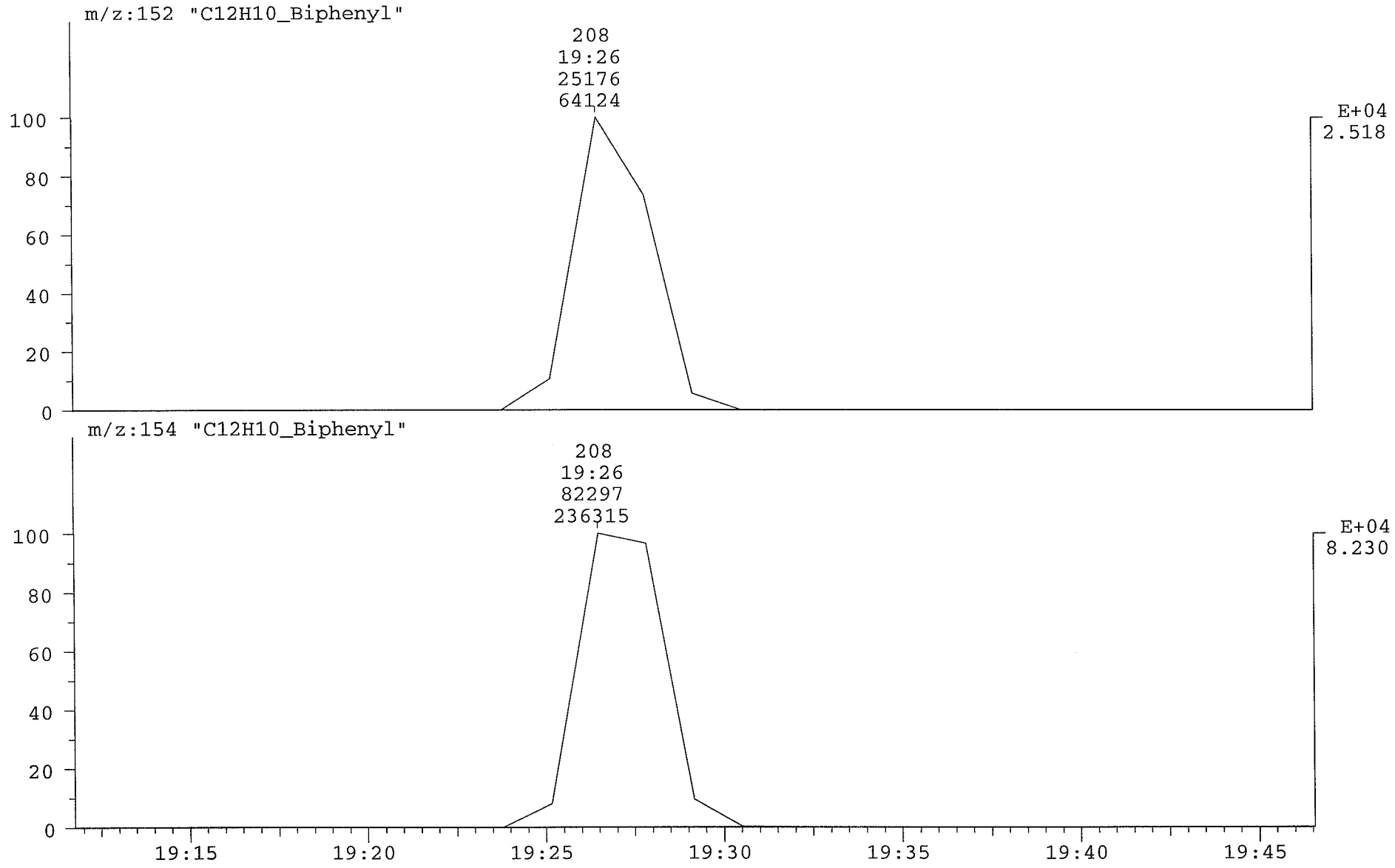
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



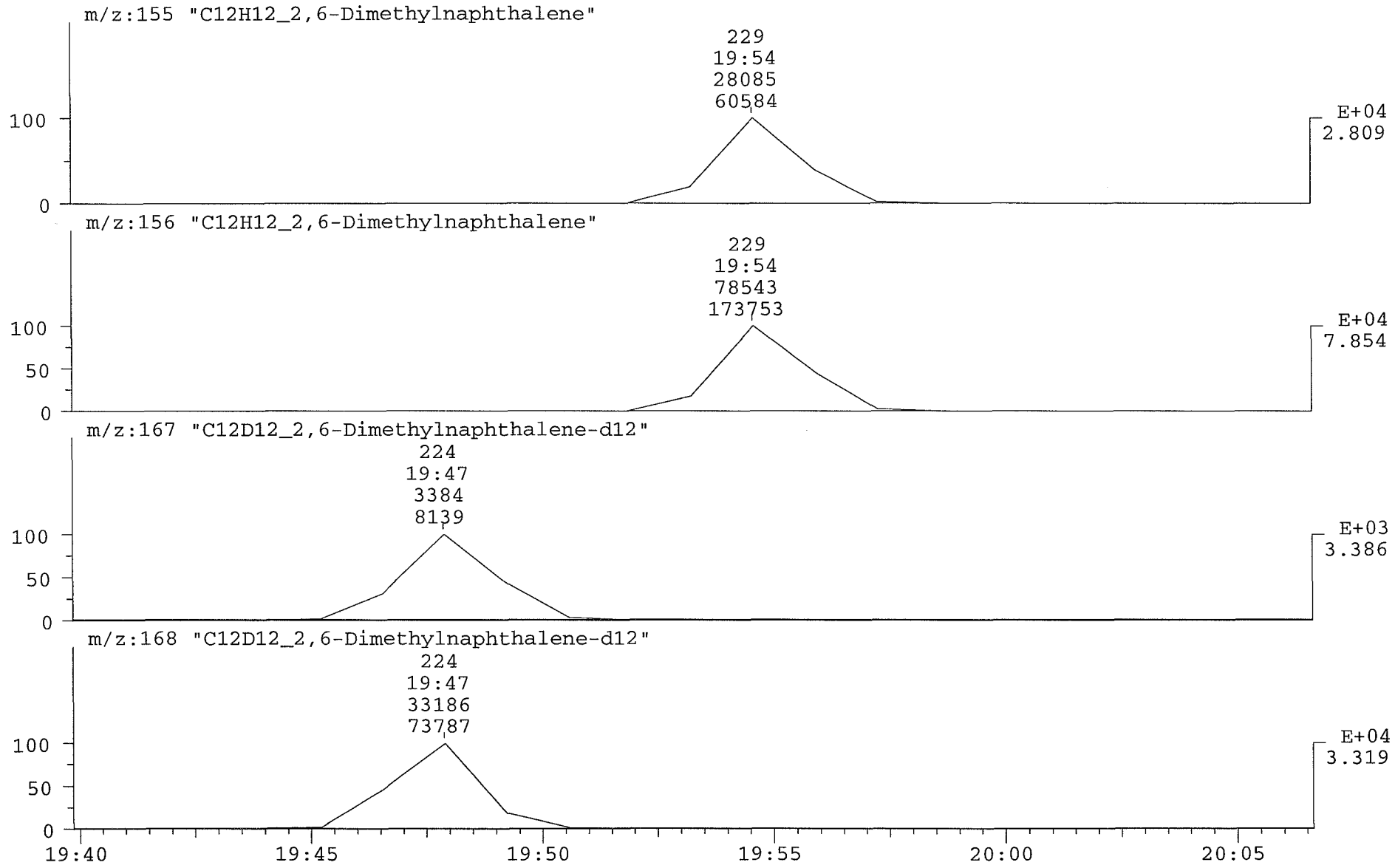
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



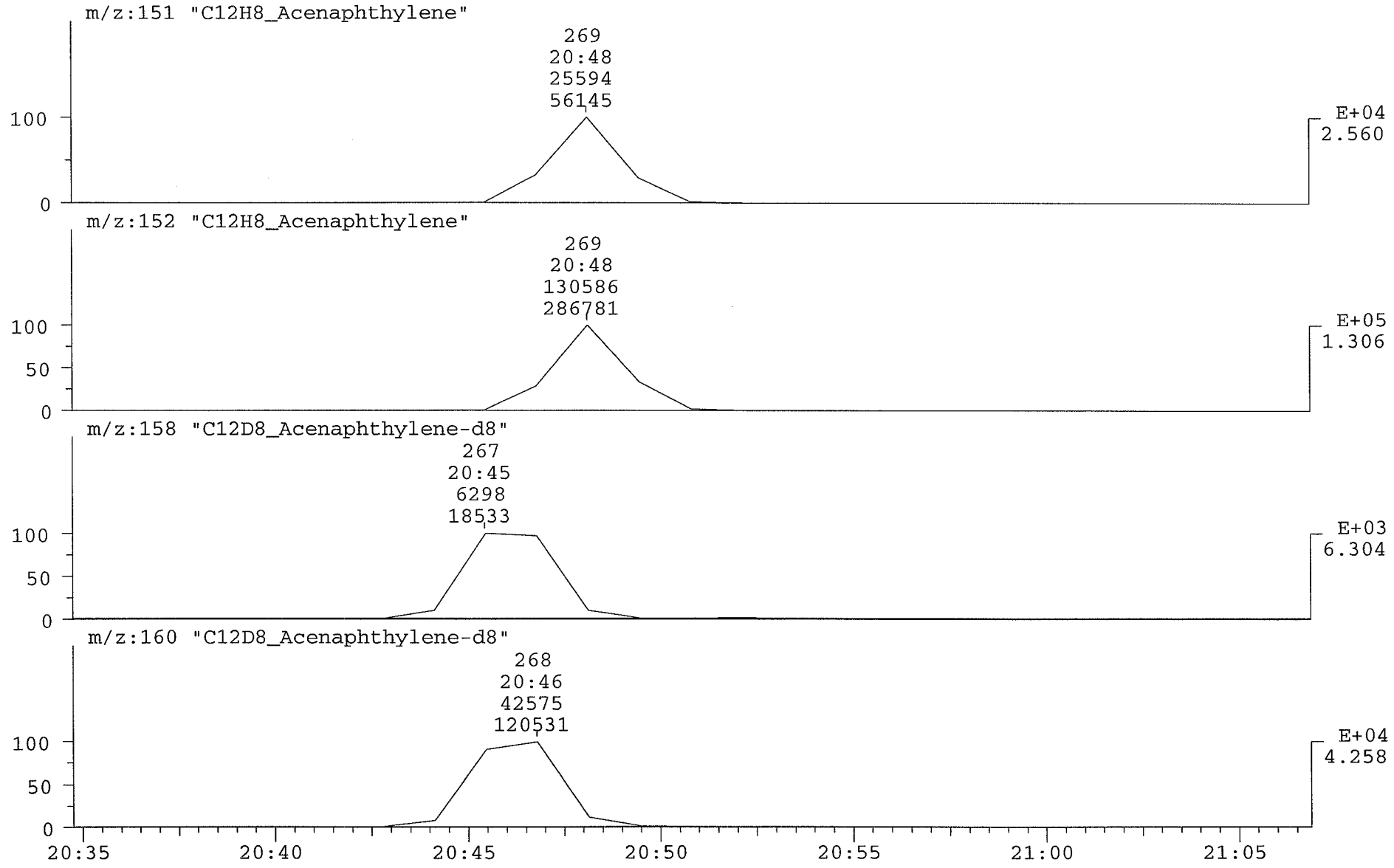
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Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



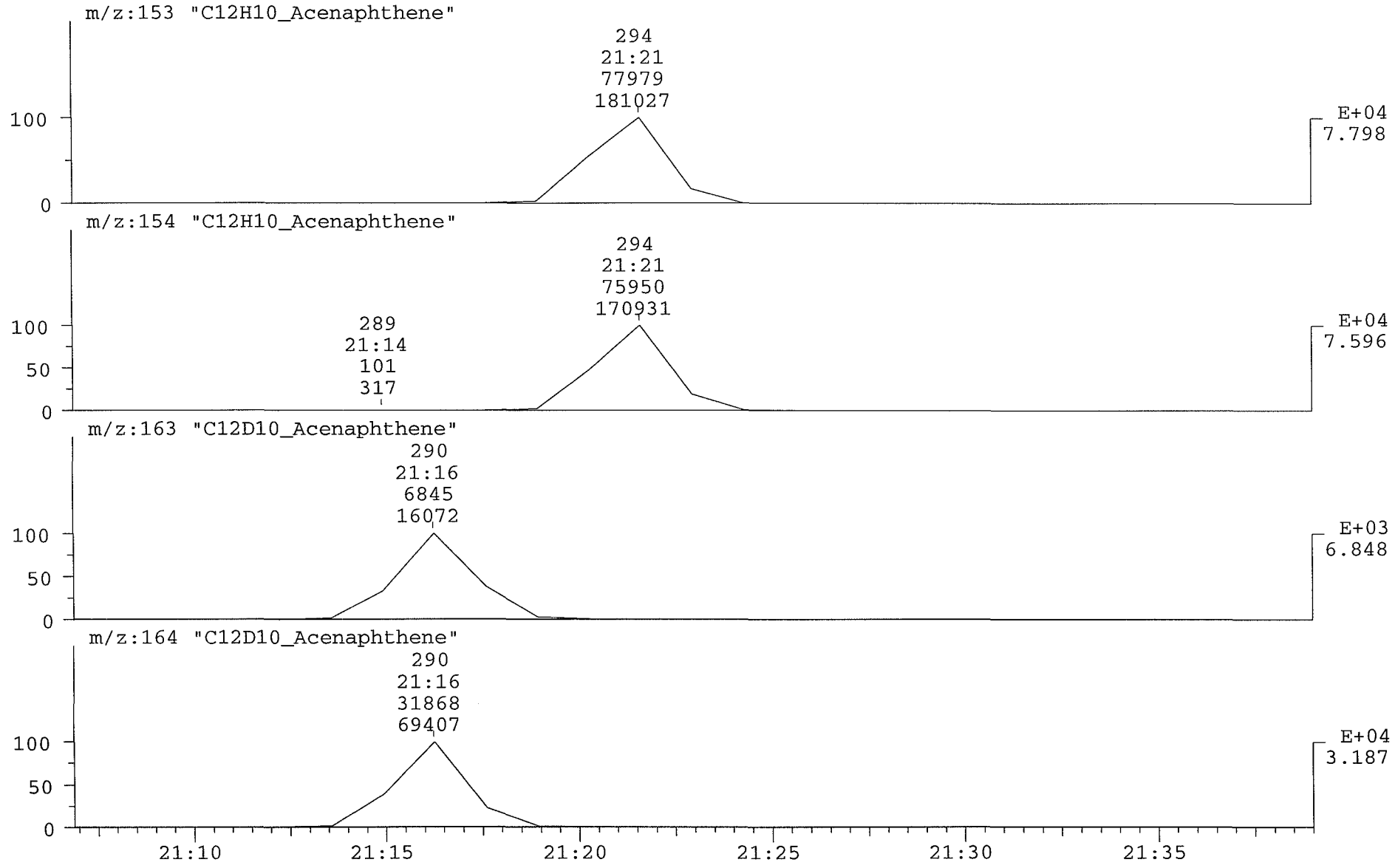
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



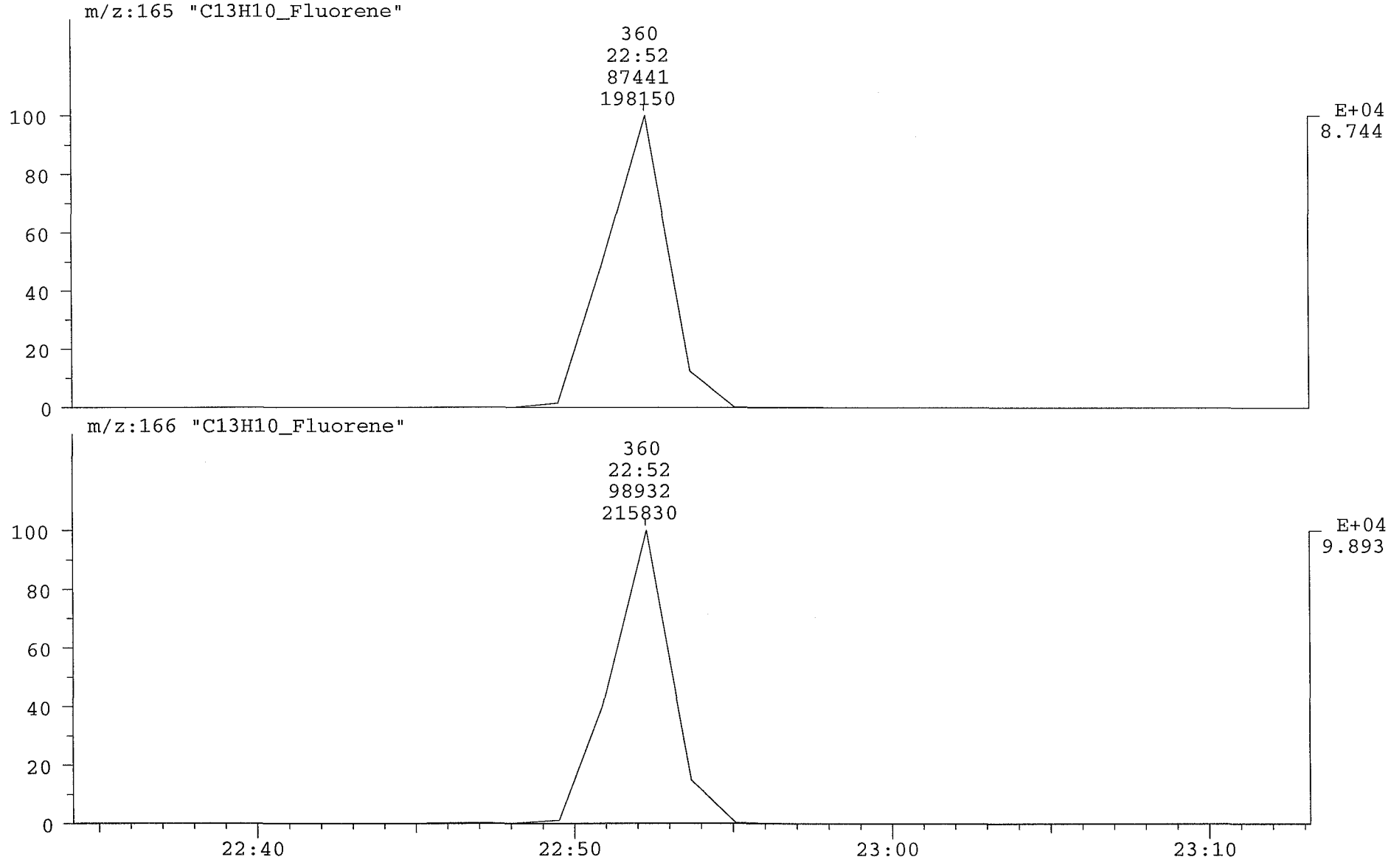
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



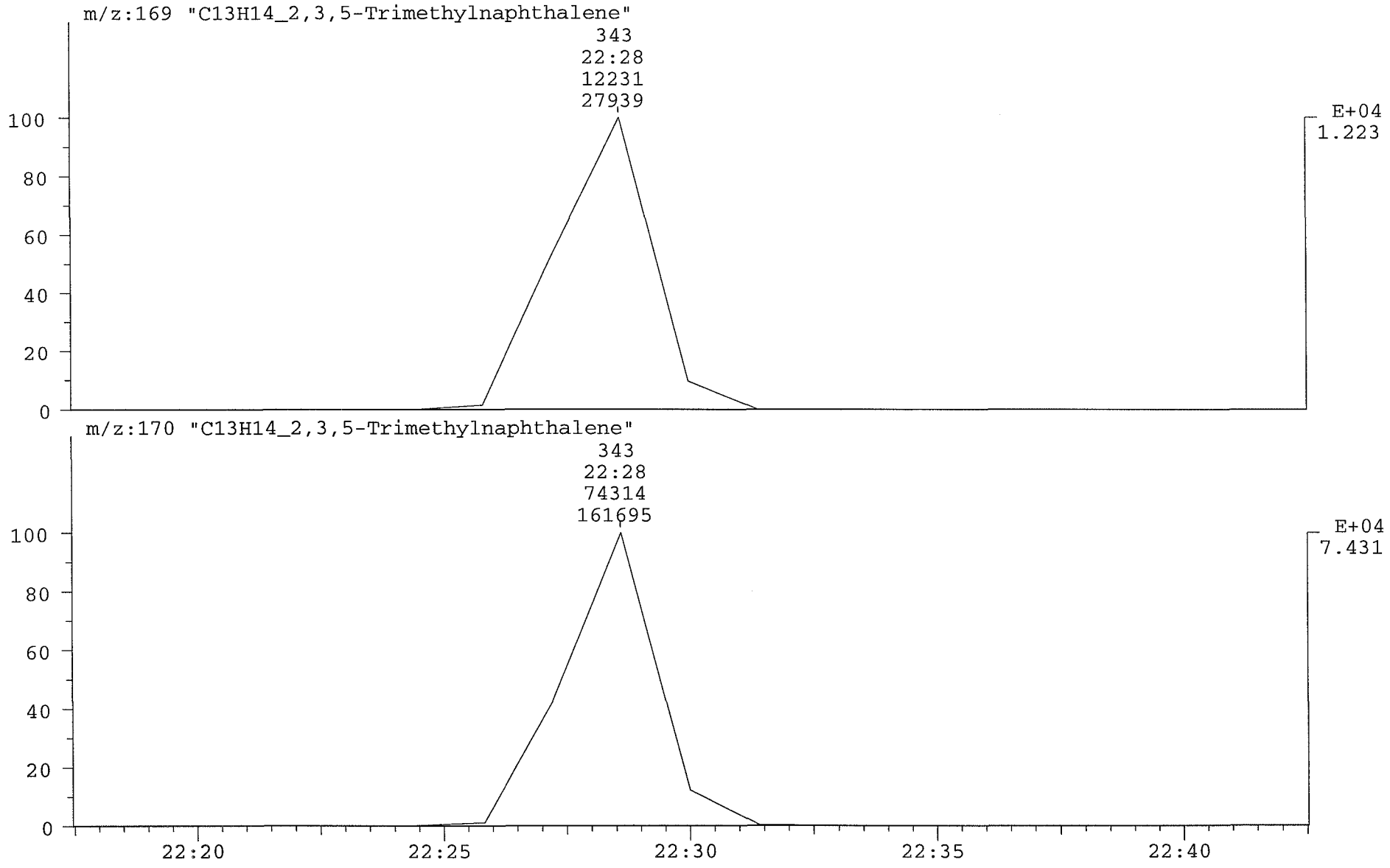
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Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



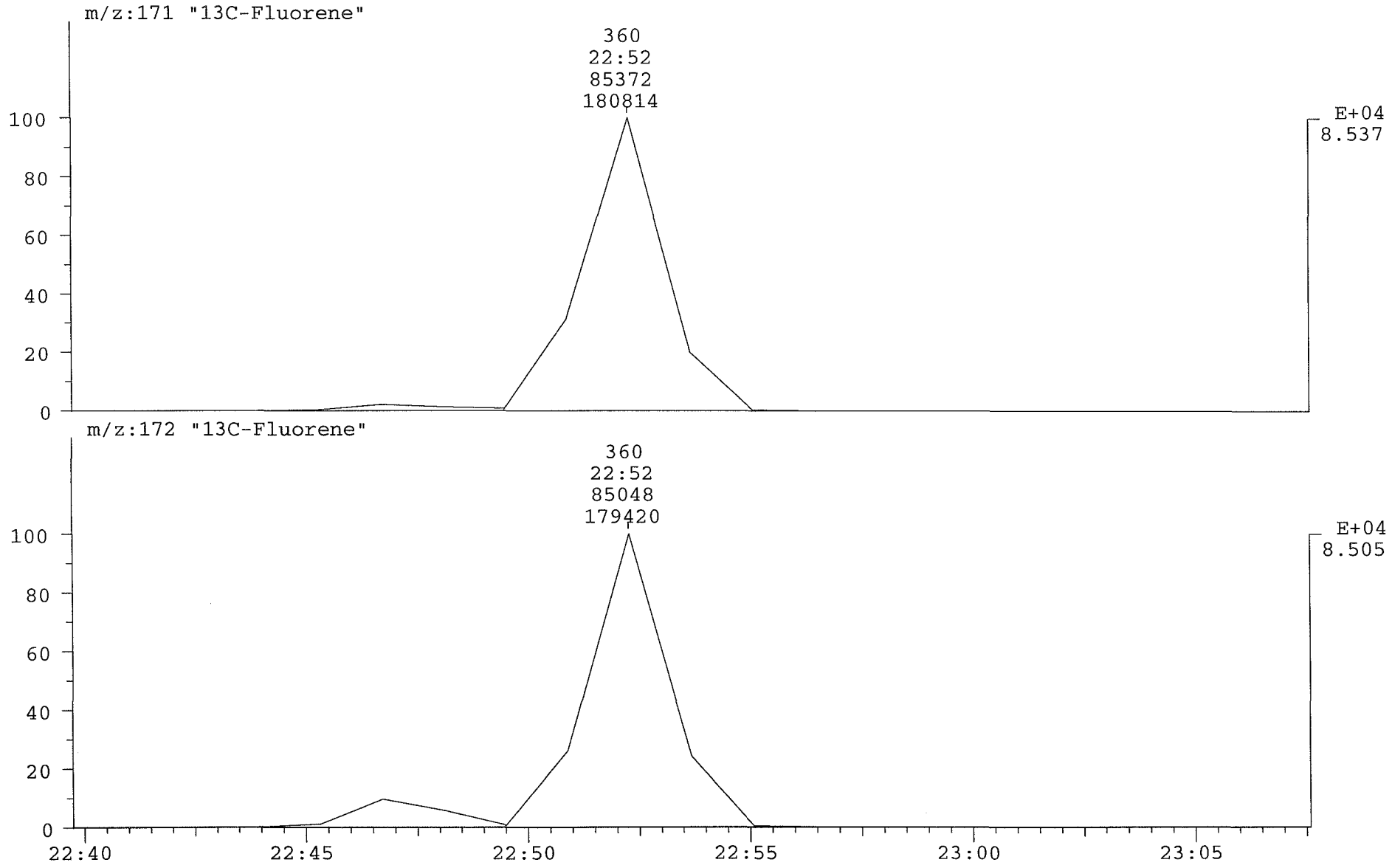
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CHRO:  y060426i5                              26-APR-06   Elapse:   41:00      1327
Samp:  WO=y060426i5 Meth=YA1 Dil=1                        Start :   22:58:00   1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   ICAL
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   347 > 375            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



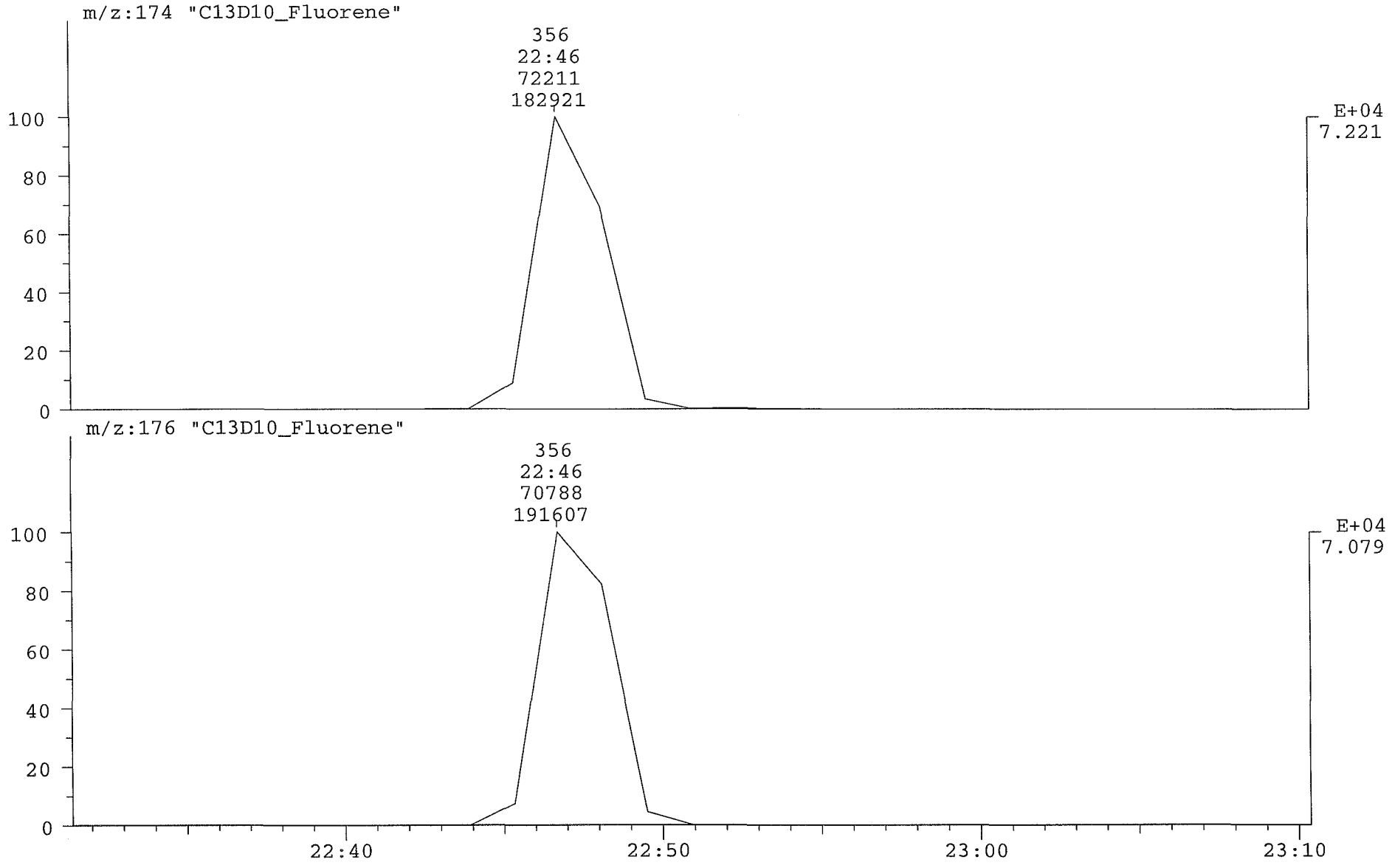
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



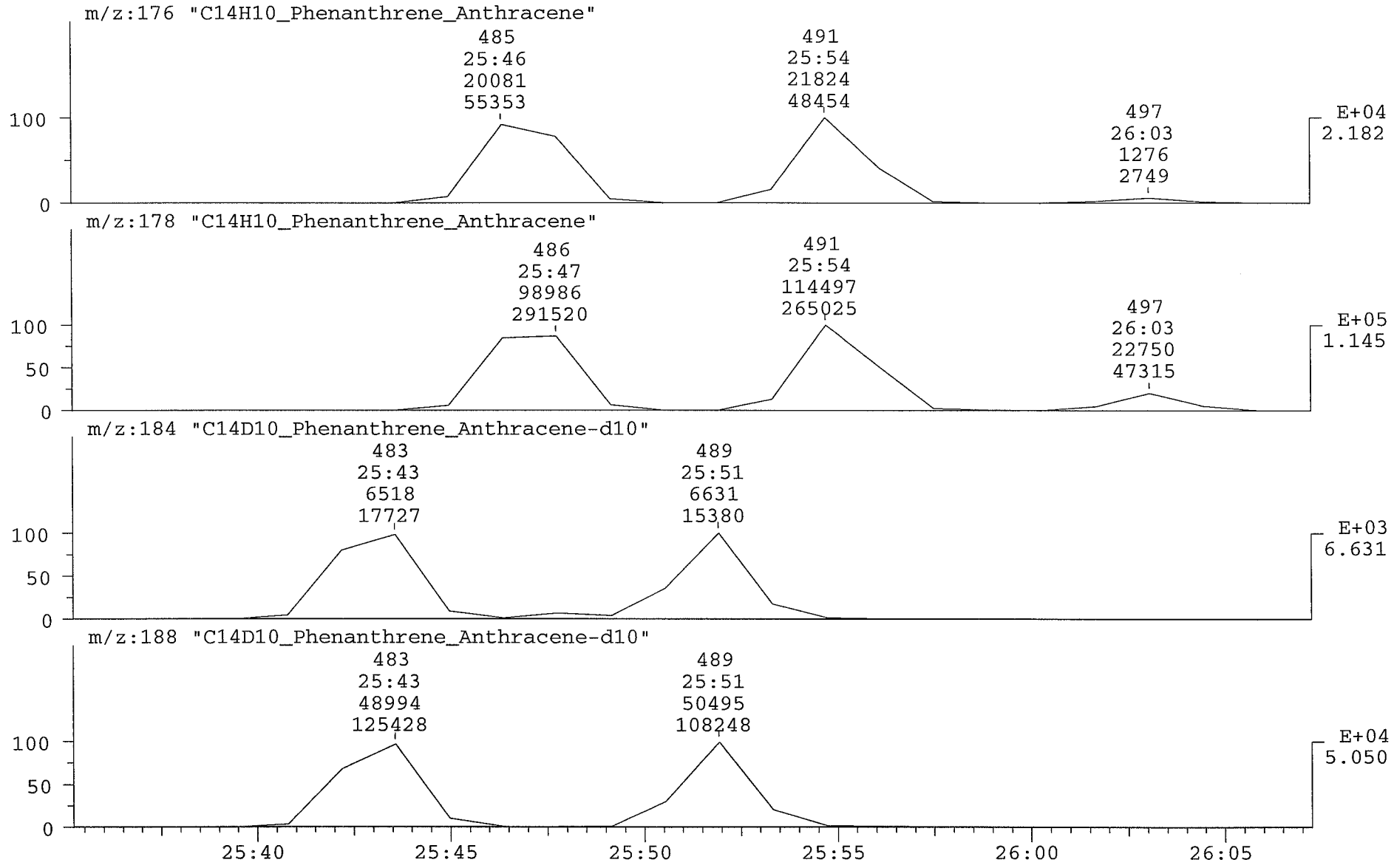
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



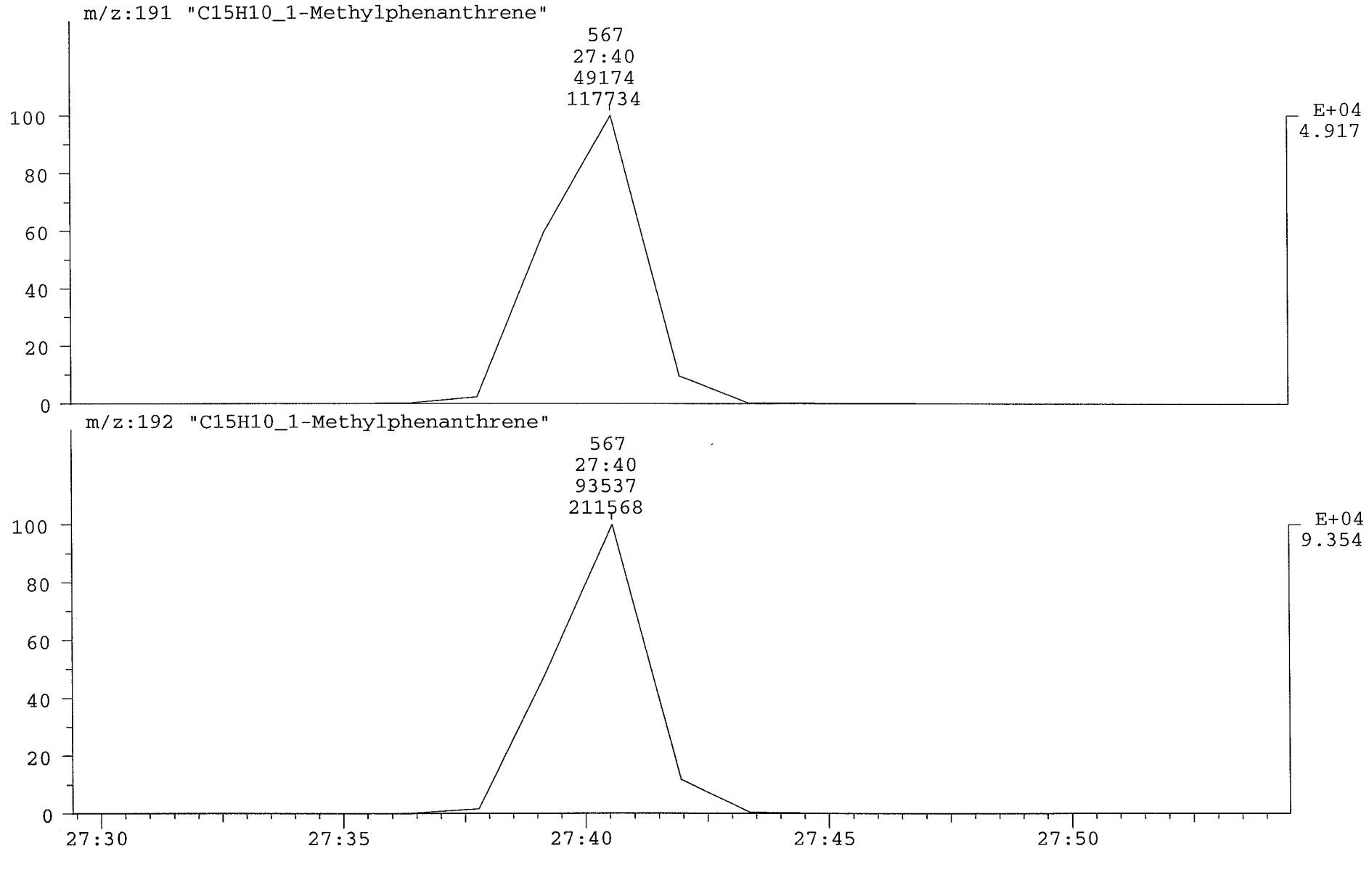
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 345 > 373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



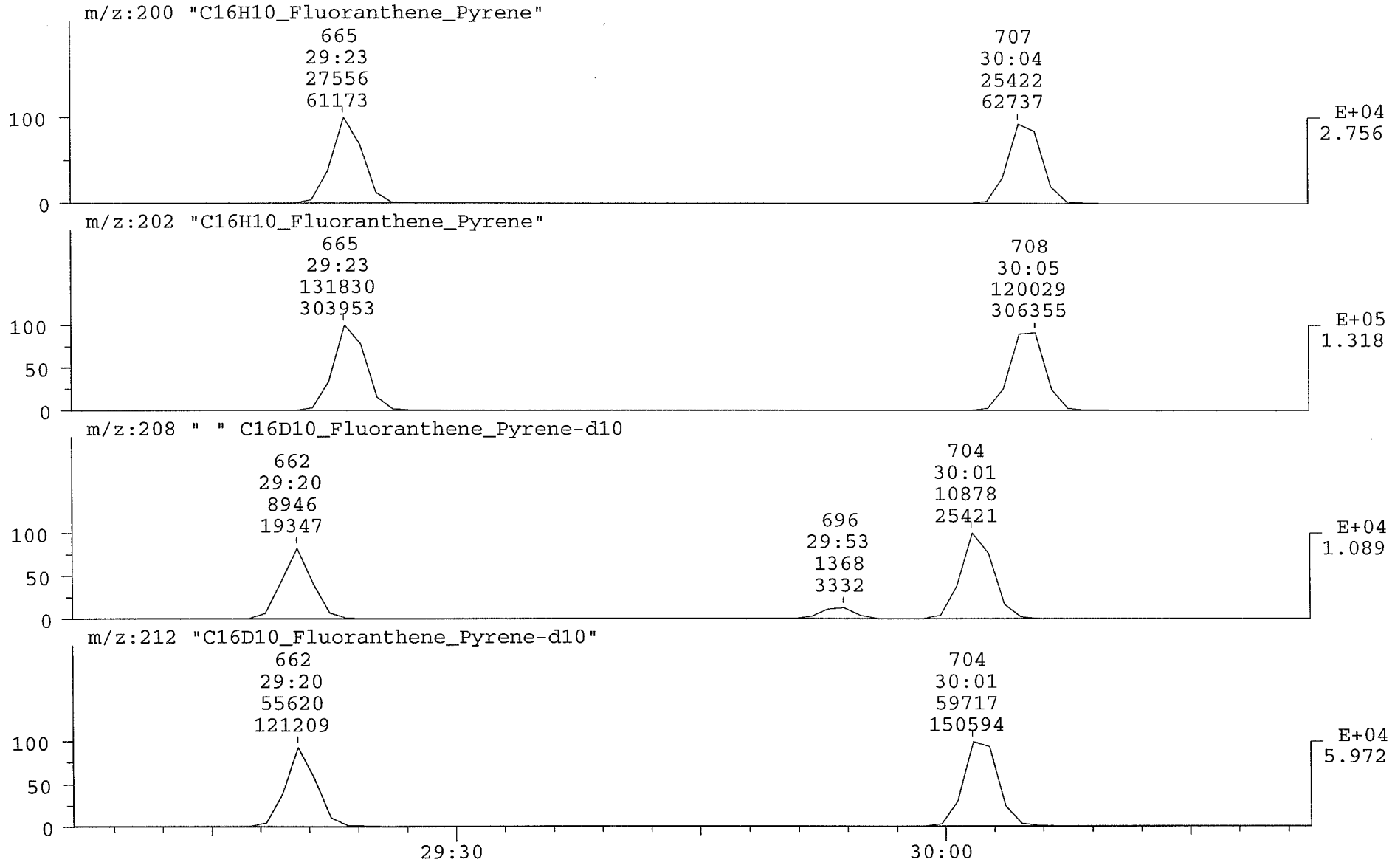
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



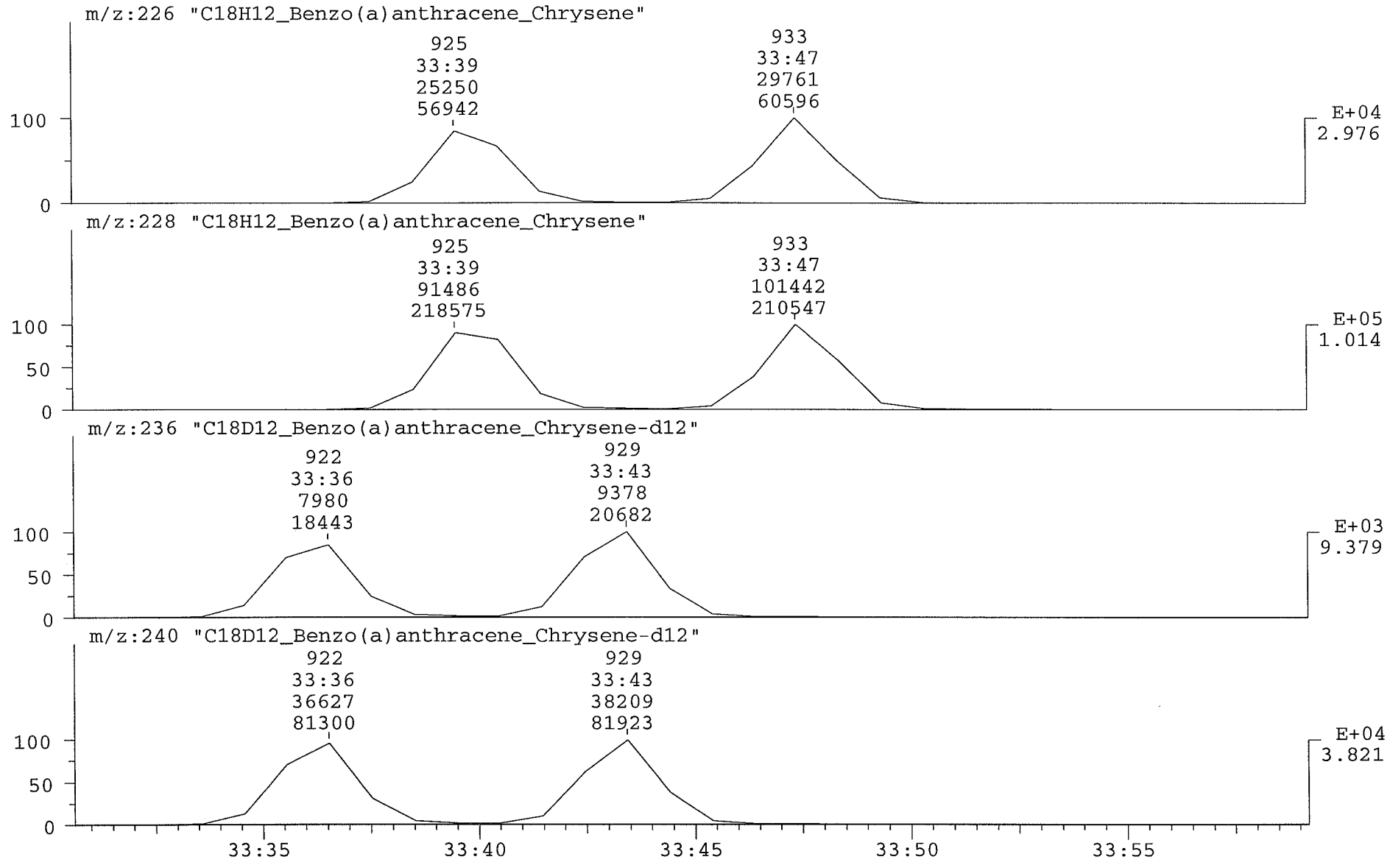
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



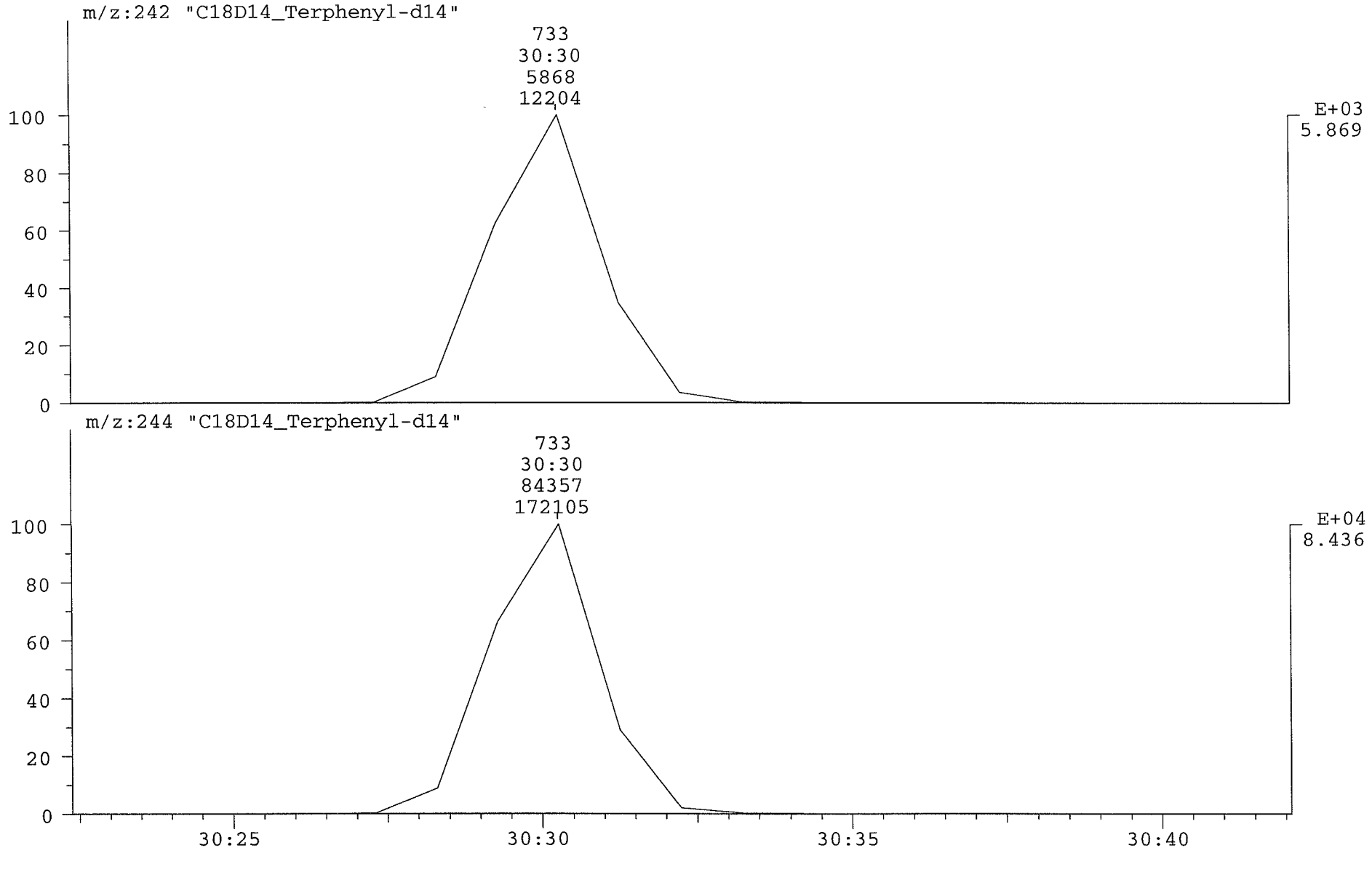
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



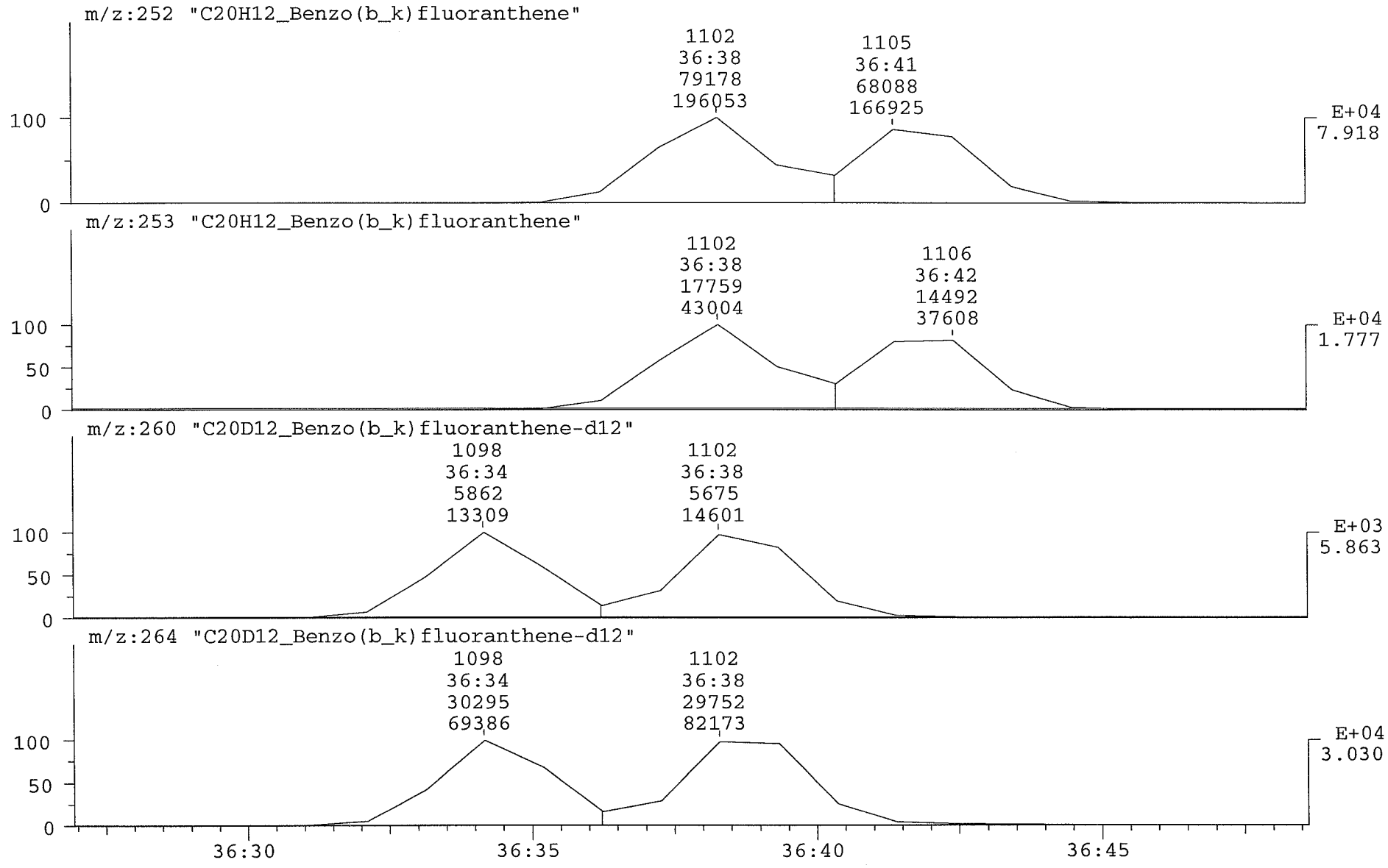
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



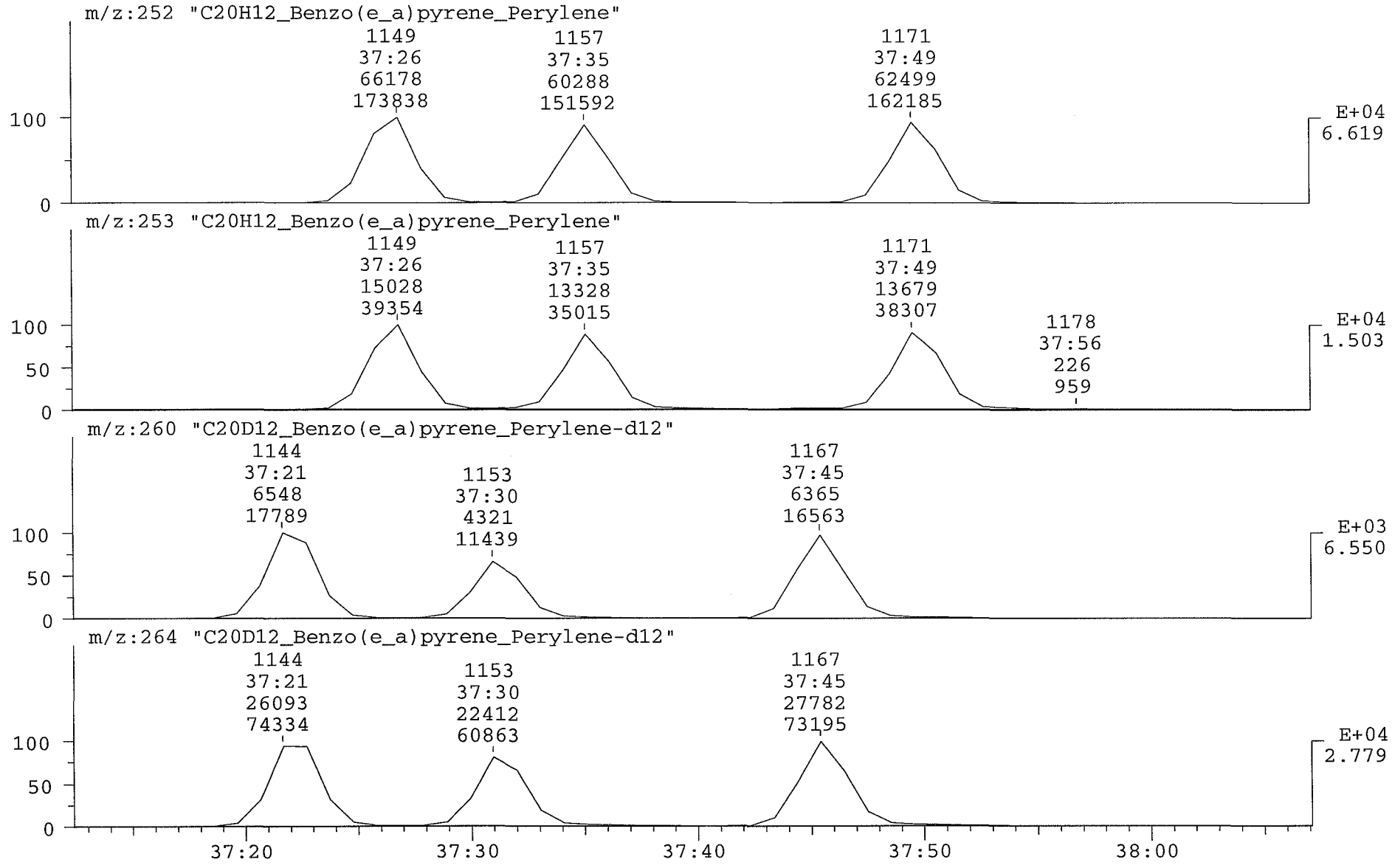
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 725 > 745 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



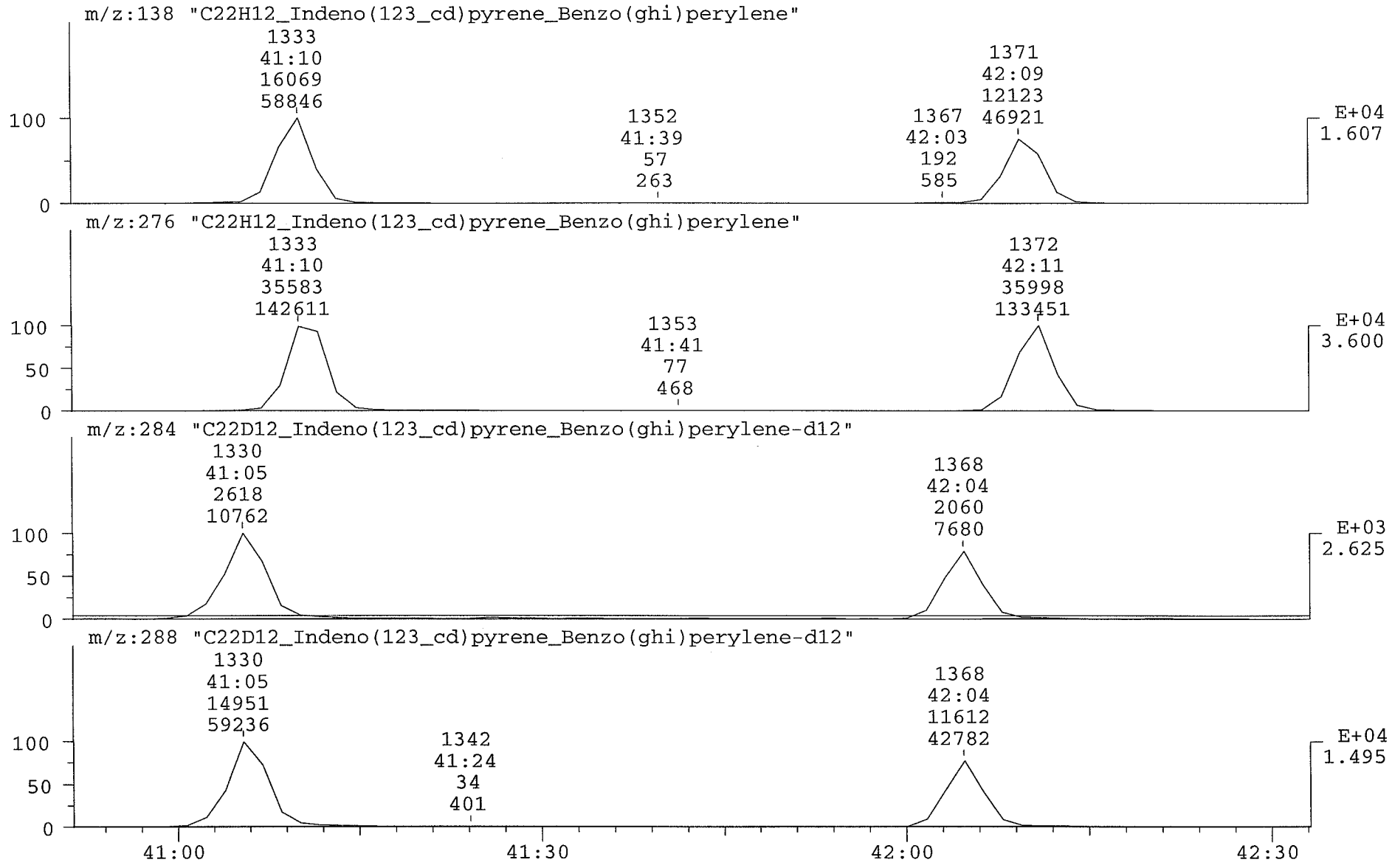
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



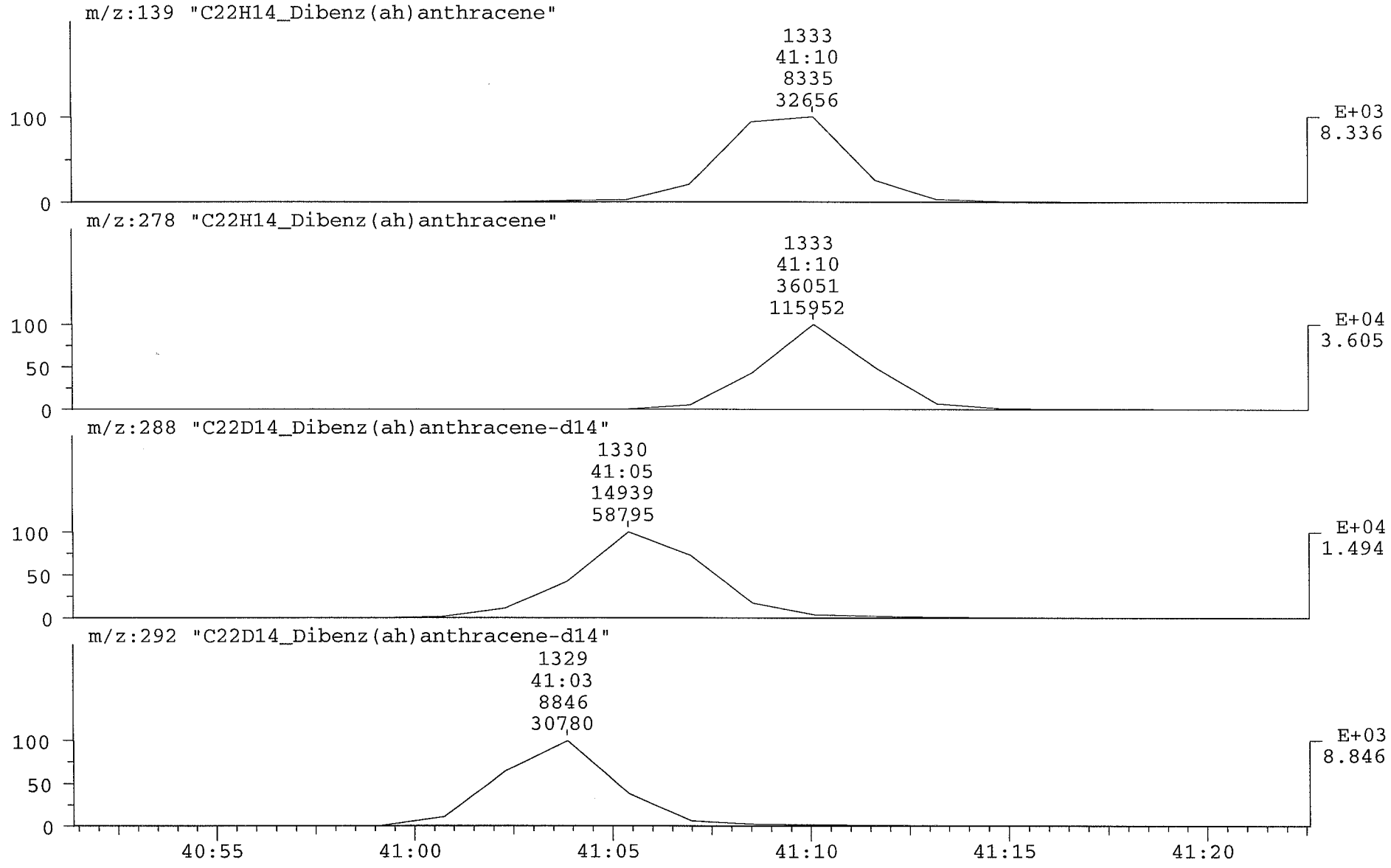
CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i5 26-APR-06 Elapse: 41:00 1327
Samp: WO=y060426i5 Meth=YA1 Dil=1 Start : 22:58:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
CHRO:  y060426i5                              26-APR-06  Elapse:  41:00      1327
Samp:  WO=y060426i5 Meth=YA1 Dil=1                       Start :  22:58:00   1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                  Study :  ICAL
Oper:  JMN           Client:  STL Knoxville              Inlet :
Peak:  100.00  ppm     Label wndw:   1321 > 1341         Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1              Label :  -2, 3.0
Disp:  Height  Area
```



```
File: Y60426I5.D
Date Acquired: 26 Apr 2006  10:58 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: Y06042615
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  6
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Thu Apr 27 12:23:25 2006
d:\cdffiles\Y60426I5.CDF Translated at Thu Apr 27 12:23:25 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 06:49:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60426i5.dat
NetCDF File (input): /usr/users/hp/data/y60426i5.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 06:49:02 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I6	**Prep Batch**		**Lot No**	
Data File	/20060426i/y060426i6.d	**Prep Date**		**SDG No**	
Analysis ID	90320	**Prep Exp Date**		**Date Received**	
Analysis Date	4/26/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	23:48	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	110143	40727	1.000	500.0	777.110644	155.42	777.110644	0.355
Naphthalene	16:01	694400	284500	1.000	2500	3152.26569	126.09	3152.26569	0.460
~~1,4-Dichlorobenzene-d4~~					~~500.0~~			~~ND~~	~~0.000000~~
~~1,4-Dichlorobenzene~~				~~1.000~~	~~2500~~			~~ND~~	~~0.000000~~
2-Methylnaphthalene	18:03	493824	209445	1.000	2500	3333.40534	133.34	3333.40534	0.280
2-Methylnaphthalene-d10	17:58	74072	31270	1.000	500.0	522.612782	104.52	522.612782	0.237
1-Methylnaphthalene	18:22	467631	178971	1.000	2500	3539.70933	141.59	3539.70933	0.294
1-Methylnaphthalene-d10	18:17	66055	29754	1.000	500.0	466.049078	93.21	466.049078	0.237
~~1-Chloronaphthalene~~				~~1.000~~	~~2500~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene~~				~~1.000~~	~~2500~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene-d7~~					~~500.0~~			~~ND~~	~~0.000000~~
Biphenyl	19:26	605939	219929	1.000	2500	4090.20278	163.61	4090.20278	0.839
2,6-Dimethylnaphthalene	19:54	449005	203614	1.000	2500	3212.31828	128.49	3212.31828	1.53
2,6-Dimethylnaphthalene-d1	19:47	69888	30946	1.000	500.0	493.092695	98.62	493.092695	0.316
~~C2-Alkylnaphthalenes~~				~~1.000~~		~~3212.31828~~		~~3212.31828~~	~~1.17~~
Acenaphthylene	20:48	751360	346457	1.000	2500	3304.13369	132.17	3304.13369	0.193
Acenaphthylene-d8	20:45	113700	38898	1.000	500.0	802.206951	160.44	802.206951	0.237
Acenaphthene-d10	21:16	70867	31677	1.000	500.0	500.000000	100.00	500.000000	0.237
Acenaphthene	21:21	445866	201079	1.000	2500	1960.71240	78.43	1960.71240	0.675
2,3,5-Trimethylnaphthalene	22:28	422321	196090	1.000	2500	3021.41283	120.86	3021.41283	0.323
~~C3-Alkylnaphthalenes~~				~~1.000~~		~~3021.41283~~		~~3021.41283~~	~~0.246~~
Fluorene d-10	22:46	506265	172081	1.000	2500	2116.43939	84.66	2116.43939	0.158
Fluorene-C13	22:52	478542	216306	1.000	2500	2000.54346	80.02	2000.54346	0.105
Fluorene	22:52	554472	260742	1.000	2500	2317.96861	92.72	2317.96861	0.211
Phenanthrene-d10	25:43	119603	47499	1.000	500.0	380.008134	76.00	380.008134	0.144
Phenanthrene	25:47	756720	282182	1.000	2500	3163.46580	126.54	3163.46580	0.184
Anthracene-d10	25:52	115628	53393	1.000	500.0	367.378582	73.48	367.378582	0.144
Anthracene	25:54	697932	283166	1.000	2500	2917.70273	116.71	2917.70273	0.184
1-Methylphenanthrene	27:40	556157	252340	1.000	2500	2325.01275	93.00	2325.01275	0.289
Fluoranthene-d10	29:20	116524	52794	1.000	500.0	370.225394	74.05	370.225394	0.165
Fluoranthene	29:23	804759	323248	1.000	2500	3453.18990	138.13	3453.18990	0.213
Pyrene-d10	30:01	157369	60637	1.000	500.0	500.000000	100.00	500.000000	0.165
Pyrene	30:05	811355	346669	1.000	2500	3481.49308	139.26	3481.49308	0.213
Terphenyl-d14	30:30	477095	242598	1.000	2500	2047.19629	81.89	2047.19629	0.0710
Benzo(a)Anthracene-d12	33:36	80718	36817	1.000	500.0	256.460929	51.29	256.460929	0.186
Benzo(a)anthracene	33:40	607950	271630	1.000	2500	3765.88865	150.64	3765.88865	0.407
Chrysene-d12	33:43	80924	38474	1.000	500.0	257.115442	51.42	257.115442	0.186
Chrysene	33:47	579902	244972	1.000	2500	3583.00381	143.32	3583.00381	0.390
Benzo(b)Fluoranthene-d12	36:34	73197	29372	1.000	500.0	458.760044	91.75	458.760044	0.592
Benzo(k)Fluoranthene-d12	36:39	79624	35465	1.000	500.0	499.041077	99.81	499.041077	0.592
Benzo(b)fluoranthene	36:38	516307	211872	1.000	2500	3526.83170	141.07	3526.83170	1.92
Benzo(k)fluoranthene	36:42	505756	217532	1.000	2500	3175.90174	127.04	3175.90174	1.59
Benzo(e)pyrene-d12	37:22	79777	29575	1.000	500.0	500.000000	100.00	500.000000	0.592
Benzo(e)pyrene	37:26	481107	189673	1.000	2500	3863.87876	154.56	3863.87876	2.60
Benzo(a)Pyrene-d12	37:32	62257	21606	1.000	500.0	390.193916	78.04	390.193916	0.592
Benzo(a)pyrene	37:35	441527	156669	1.000	2500	3546.00286	141.84	3546.00286	2.60
Perylene-d12	37:45	74162	27191	1.000	500.0	464.808153	92.96	464.808153	0.592
Perylene	37:50	465698	159082	1.000	2500	3139.73463	125.59	3139.73463	2.07
~~3-Methylcholanthrene~~				~~1.000~~	~~2500~~			~~ND~~	~~0.965~~

VHK 4/27/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I6	**Prep Batch**		**Lot No**	
Data File	/20060426i/y060426i6.d	**Prep Date**		**SDG No**	
Analysis ID	90320	**Prep Exp Date**		**Date Received**	
Analysis Date	4/26/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	23:48	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:03	32222	9404	1.000	500.0	201.950437	40.39	201.950437	0.296
Indeno(1,2,3-cd)pyrene-d12	41:05	61285	14213	1.000	500.0	384.101934	76.82	384.101934	0.296
Indeno(1,2,3-cd)pyrene	41:11	419767	118895	1.000	2500	3424.71241	136.99	3424.71241	1.14
Dibenz(a,h)anthracene	41:10	347223	96702	1.000	2500	5387.98026	215.52	5387.98026	2.13
Benzo(ghi)Perylene-d12	42:04	43869	11542	1.000	500.0	274.947667	54.99	274.947667	0.296
Benzo(ghi)perylene	42:11	383295	98654	1.000	2500	4368.63161	174.75	4368.63161	1.41
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	2500			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I6	Prep Batch		Lot No	
Data File	/20060426i/y060426i6.d	Prep Date		SDG No	
Analysis ID	90320	Prep Exp Date		Date Received	
Analysis Date	04/26/06 23:48	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	38		15				
	Naphthalene	16:01	00:00	0	694400		284500			ABV	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	23		9				
	Naphthalene-d8	15:58	00:00	0	110143		40727			ABB	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene	18:03	00:00	0	493824		209445			ABV	
	1-Methylnaphthalene	18:22	00:00	0	467631		178971			AVB	
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	00:00	0	74072		31270			ABB	
	1-Methylnaphthalene-d10	18:17	00:00	0	66055		29754			ABB	
	Acenaphthylene	20:48	00:00	0	751360		346457			ABB	M
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	53		21				
	Biphenyl	19:26	00:00	0	605939		219929			ABB	
	Acenaphthene	21:21	00:00	0	445866		201079			AVB	M
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	95		38				
	2,6-Dimethylnaphthalene	19:54	00:00	0	449005		203614			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	15		6				
	Acenaphthylene-d8	20:45	00:00	0	113700		38898			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	13		5				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	15		6				
	Acenaphthene-d10	21:16	00:00	0	70867		31677			ABB	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	20		8				
	Fluorene	22:52	00:00	0	554472		260742			AVB	M
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	20		8				
	2,6-Dimethylnaphthalene	19:47	00:00	0	69888		30946			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	15		6				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	20		8				
	2,3,5-Trimethylnaphthal	22:28	00:00	0	422321		196090			ABB	M
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	10		4				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I6	Prep Batch		Lot No	
Data File	/20060426i/y060426i6.d	Prep Date		SDG No	
Analysis ID	90320	Prep Exp Date		Date Received	
Analysis Date	04/26/06 23:48	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					**172.0000**		**172.0000**				
	Fluorene-C13	22:52	00:00	0	478542		216306			AVB	M
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluorene d-10	22:46	00:00	0	506265		172081			ABB	M
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene	25:47	00:00	0	756720		282182			ABV	M
	Anthracene	25:54	00:00	0	697932		283166			AVV	M
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene-d10	25:43	00:00	0	119603		47499			ABV	M
	Anthracene-d10	25:52	00:00	0	115628		53393			AVB	M
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	28		11				
	1-Methylphenanthrene	27:40	00:00	0	556157		252340			ABB	M
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene	29:23	00:00	0	804759		323248			ABV	M
	Pyrene	30:05	00:00	0	811355		346669			ABV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene-d10	29:20	00:00	0	116524		52794			ABV	
	Pyrene-d10	30:01	00:00	0	157369		60637			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	30		12				
	Benzo(a)anthracene	33:40	00:00	0	607950		271630			ABV	M
	Chrysene	33:47	00:00	0	579902		244972			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)Anthracene-d12	33:36	00:00	0	80718		36817			ABV	
	Chrysene-d12	33:43	00:00	0	80924		38474			AVB	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	8		3				
	Terphenyl-d14	30:30	00:00	0	477095		242598			ABB	
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	113		45				
	Benzo(b)fluoranthene	36:38	00:00	0	516307		211872			ABV	M
	Benzo(k)fluoranthene	36:42	00:00	0	505756		217532			AVB	M
	Benzo(e)pyrene	37:26	00:00	0	481107		189673			ABV	M
	Benzo(a)pyrene	37:35	00:00	0	441527		156669			AVV	M
	Perylene	37:50	00:00	0	465698		159082			AVV	M
264					**264.0000**		**264.0000**				

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I6	Prep Batch		Lot No	
Data File	/20060426i/y060426i6.d	Prep Date		SDG No	
Analysis ID	90320	Prep Exp Date		Date Received	
Analysis Date	04/26/06 23:48	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

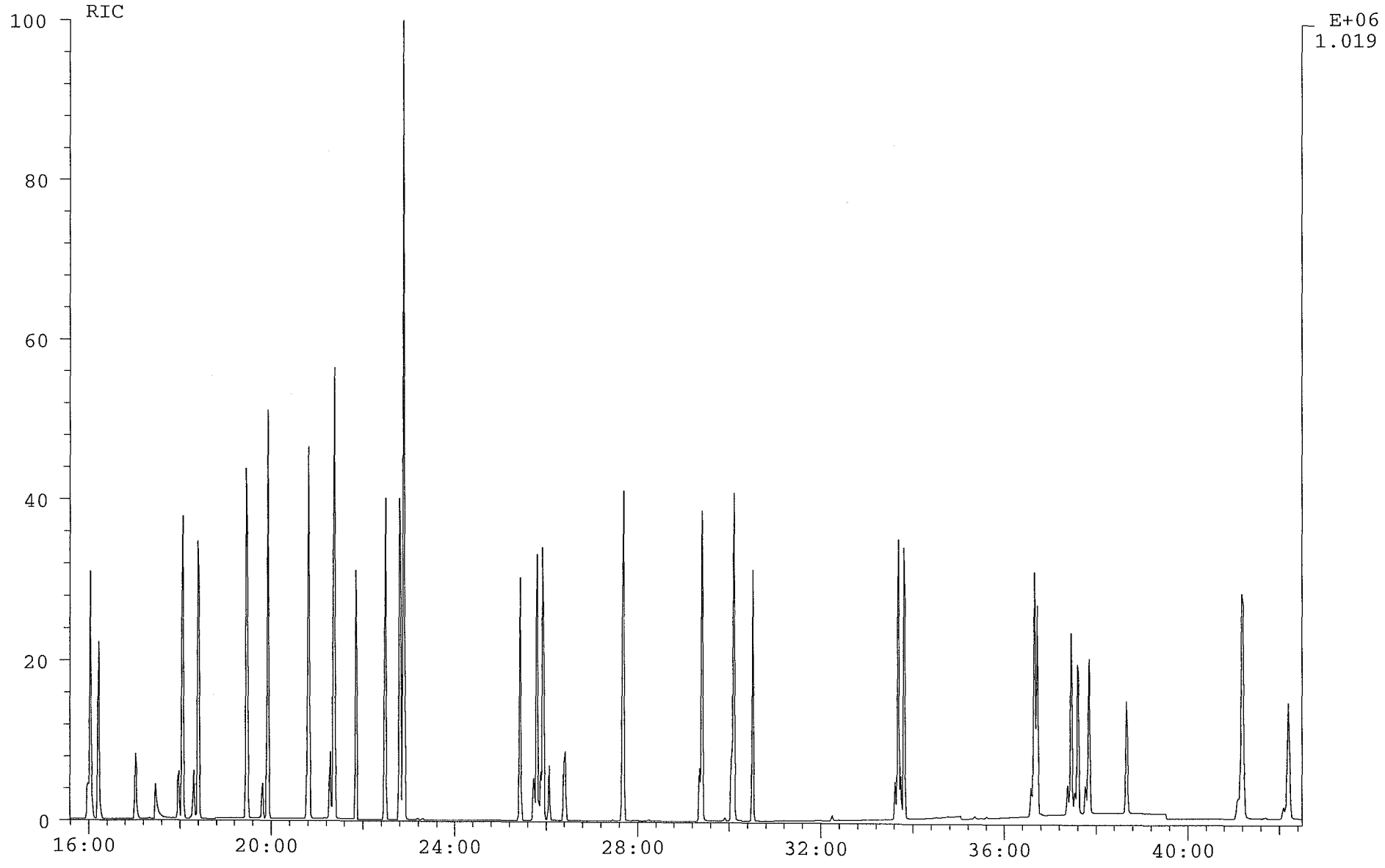
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	35		14				
	Benzo(b)Fluoranthene-d1	36:34	00:00	0	73197		29372			ABV	M
	Benzo(k)Fluoranthene-d1	36:39	00:00	0	79624		35465			AVB	M
	Benzo(e)pyrene-d12	37:22	00:00	0	79777		29575			ABV	M
	Benzo(a)Pyrene-d12	37:32	00:00	0	62257		21606			AVV	M
	Perylene-d12	37:45	00:00	0	74162		27191			AVV	M
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	53		21				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	33		13				
	Indeno(1,2,3-cd)pyrene	41:11	00:00	0	419767		118895			ABV	
	Benzo(ghi)perylene	42:11	00:00	0	383295		98654			ABB	M
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	40		16				
	Dibenz(a,h)anthracene	41:10	00:00	0	347223		96702			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene-	41:05	00:00	0	61285		14213			ABV	
	Benzo(ghi)Perylene-d12	42:04	00:00	0	43869		11542			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	18		7				
	Dibenz(ah)Anthracene-d1	41:03	00:00	0	32222		9404			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	10		4				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	8		3				

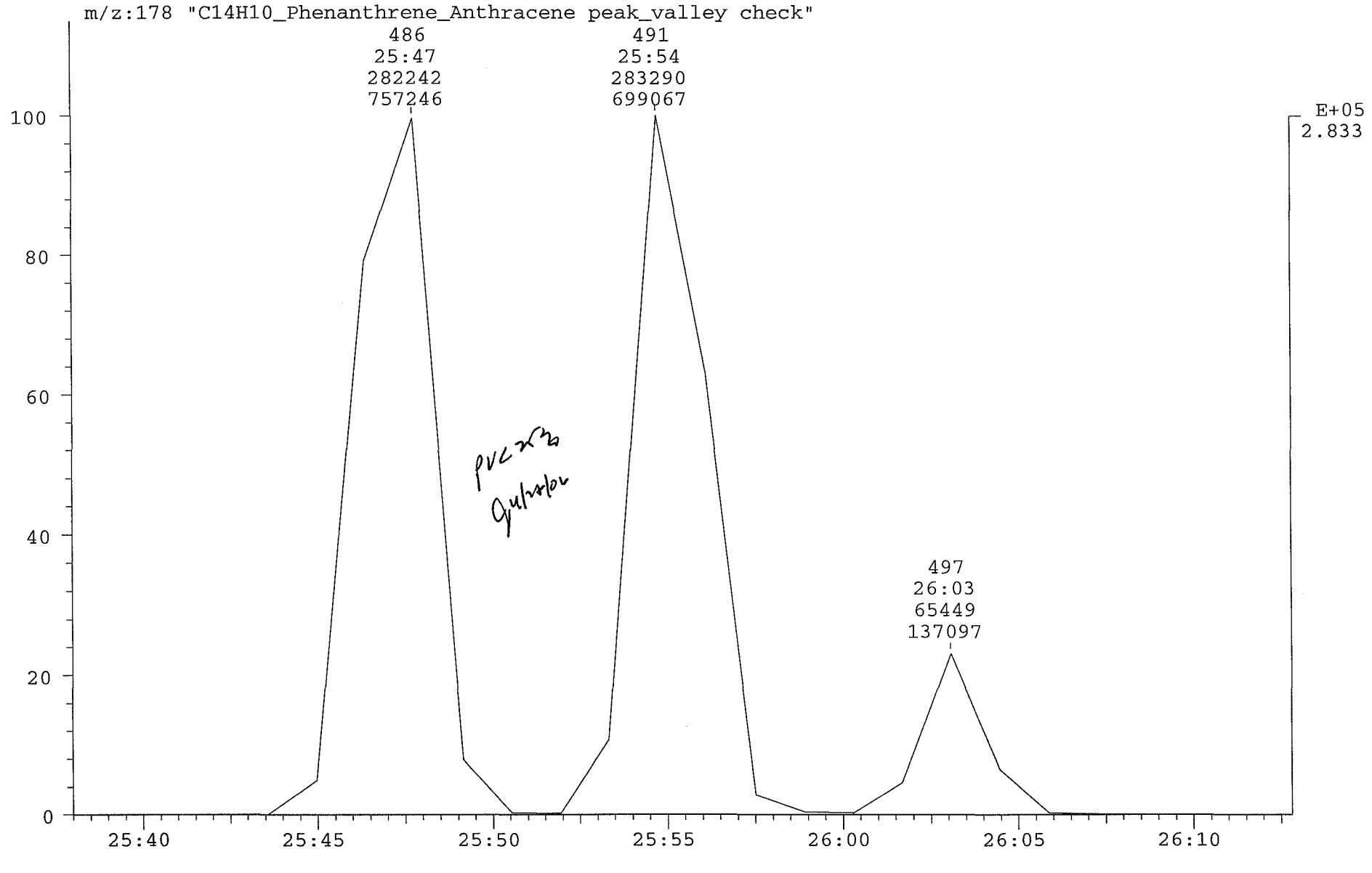
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int/Calc: JMN 4/27/06
QC VMK 4/27/06

CHRO: y060426i6 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1731 > 1739 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area

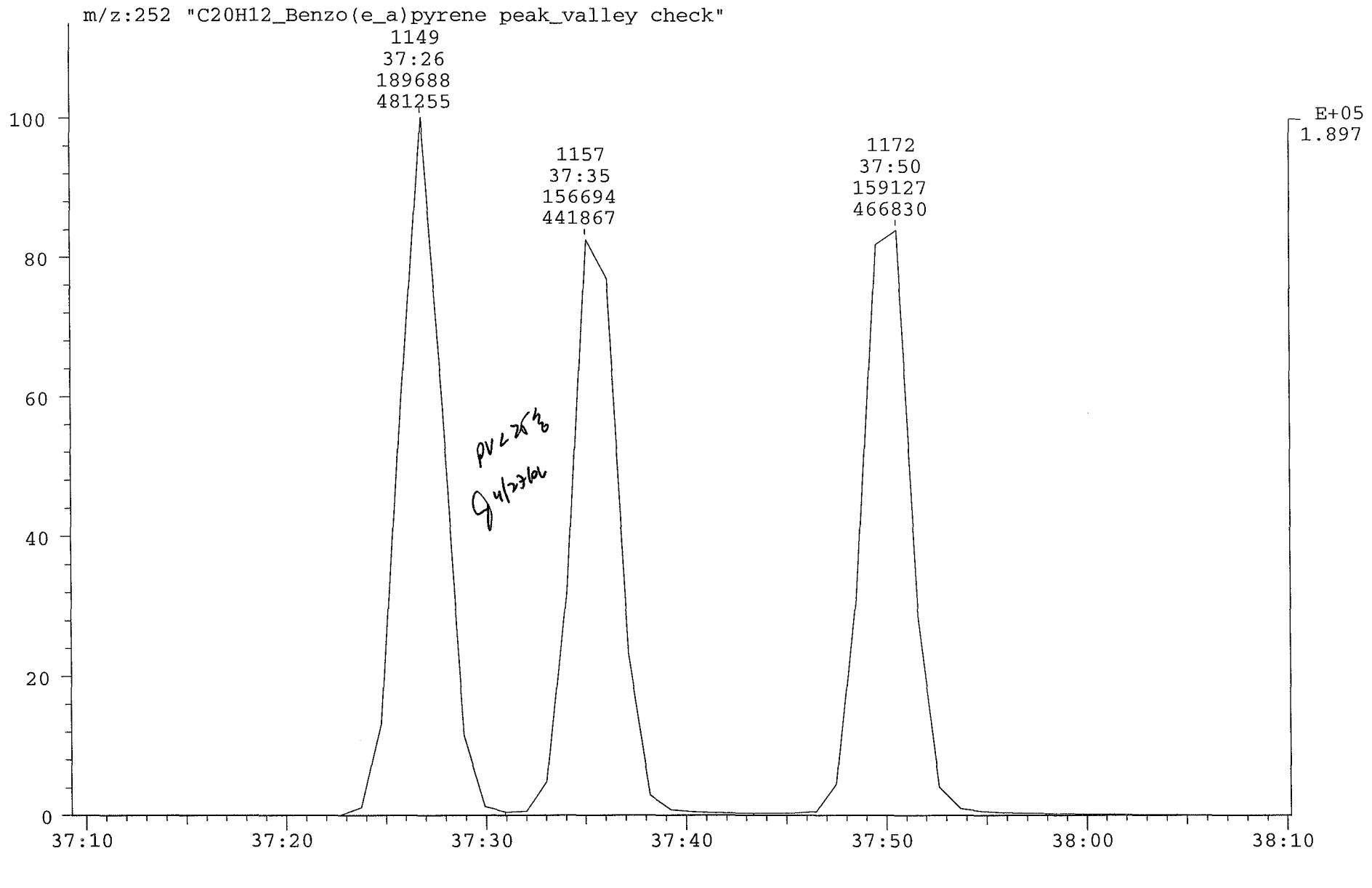


CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 479 > 504 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

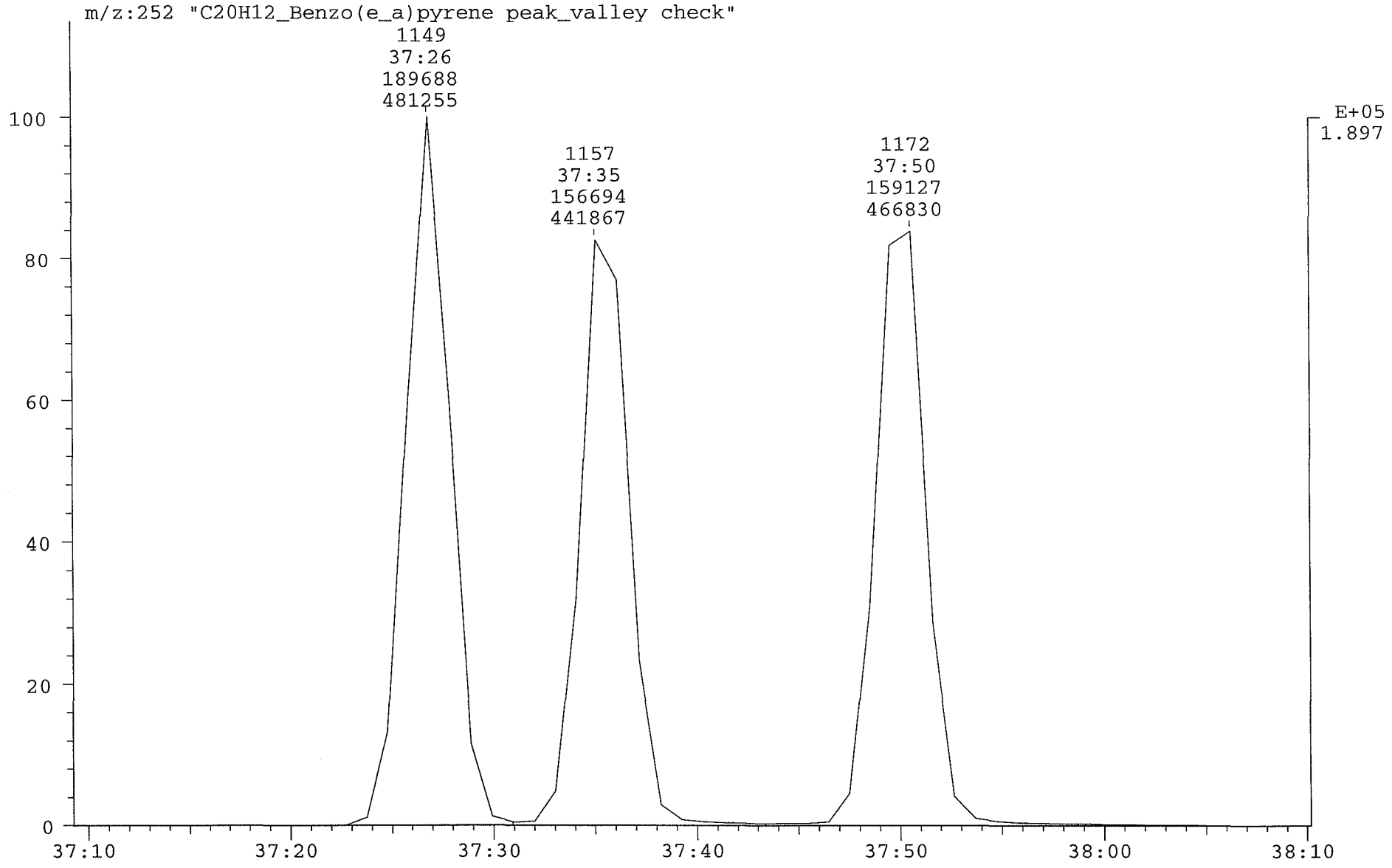


4310

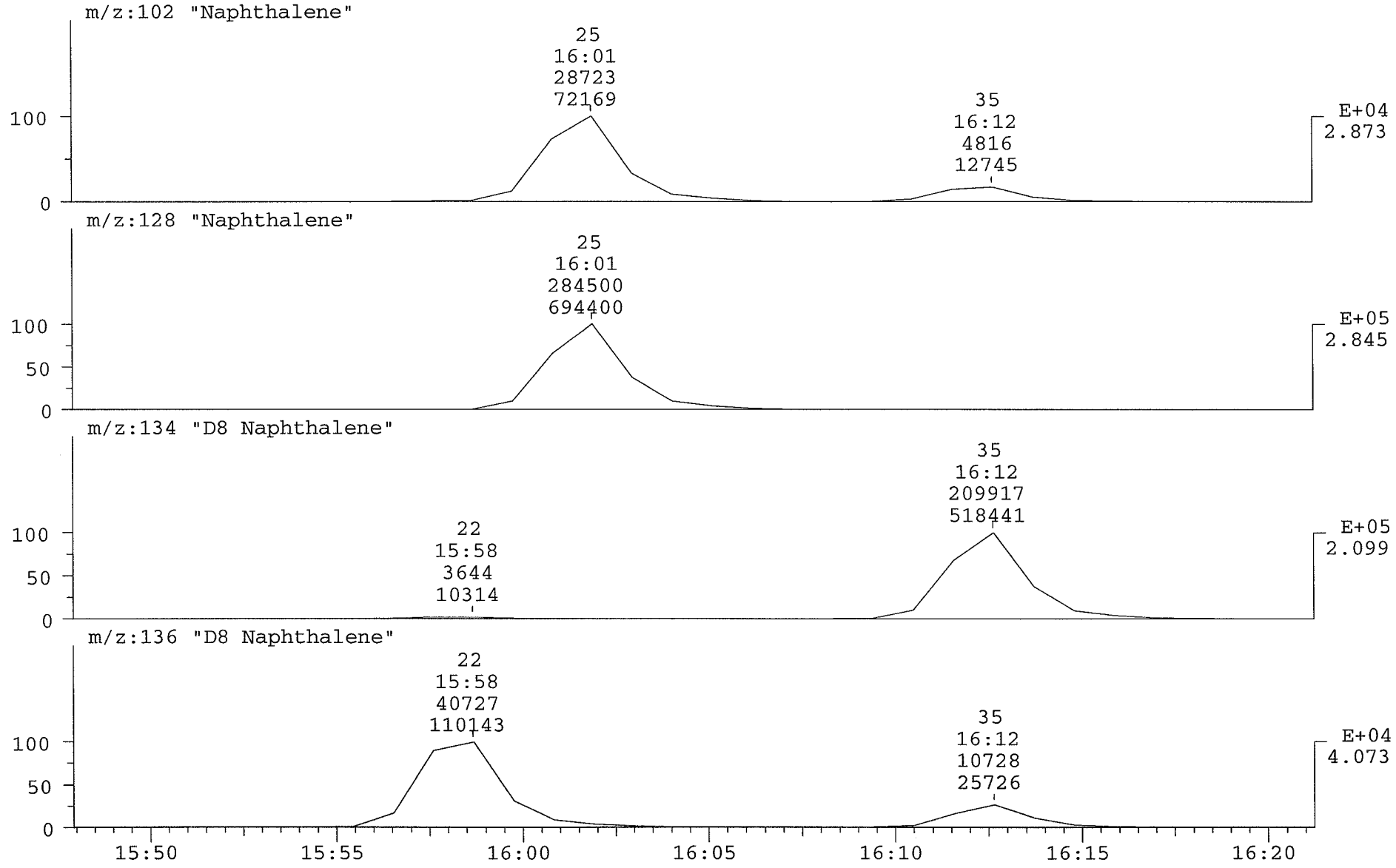
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1132 > 1191 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



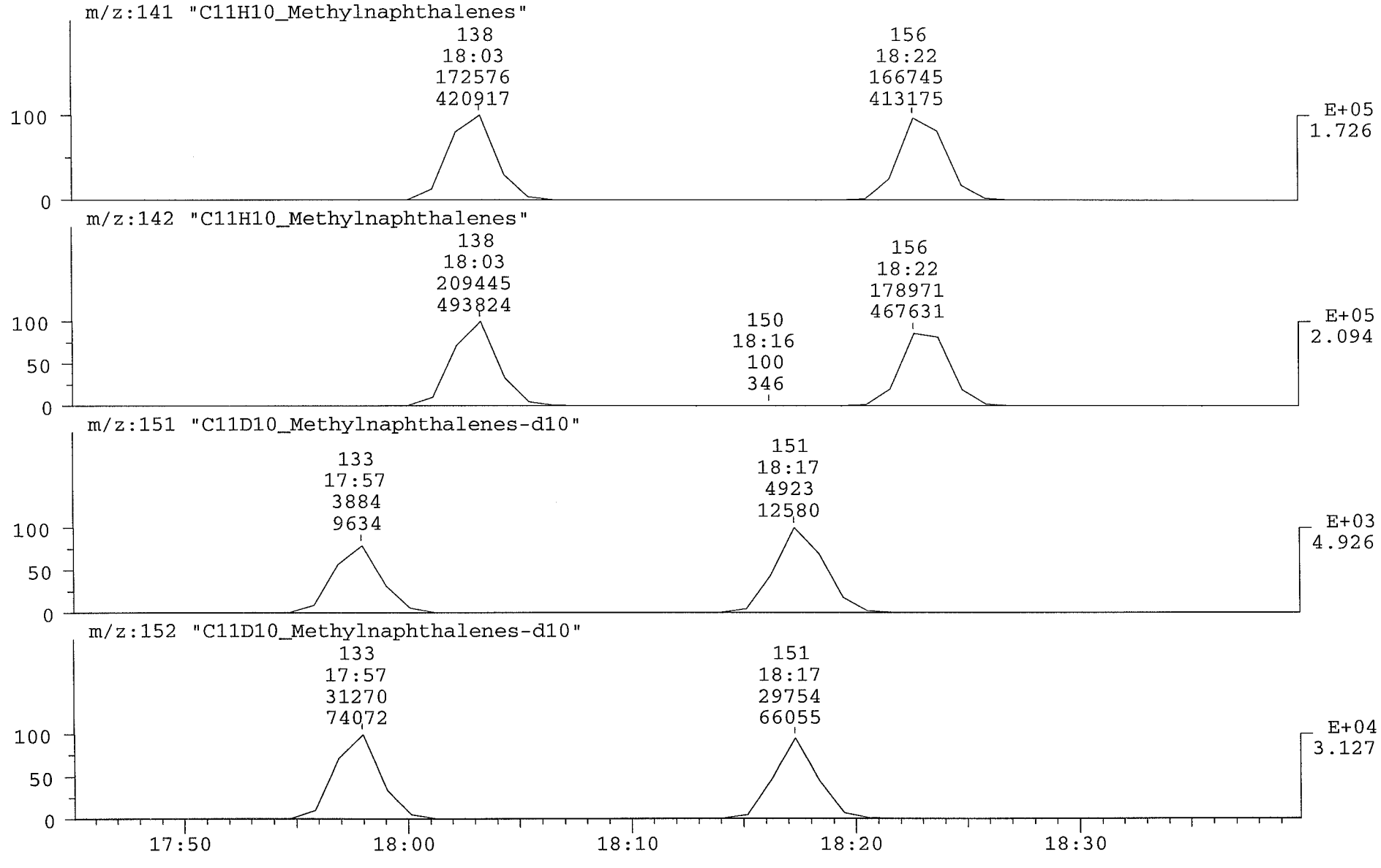
CHRO: y06042616 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1132 > 1191 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



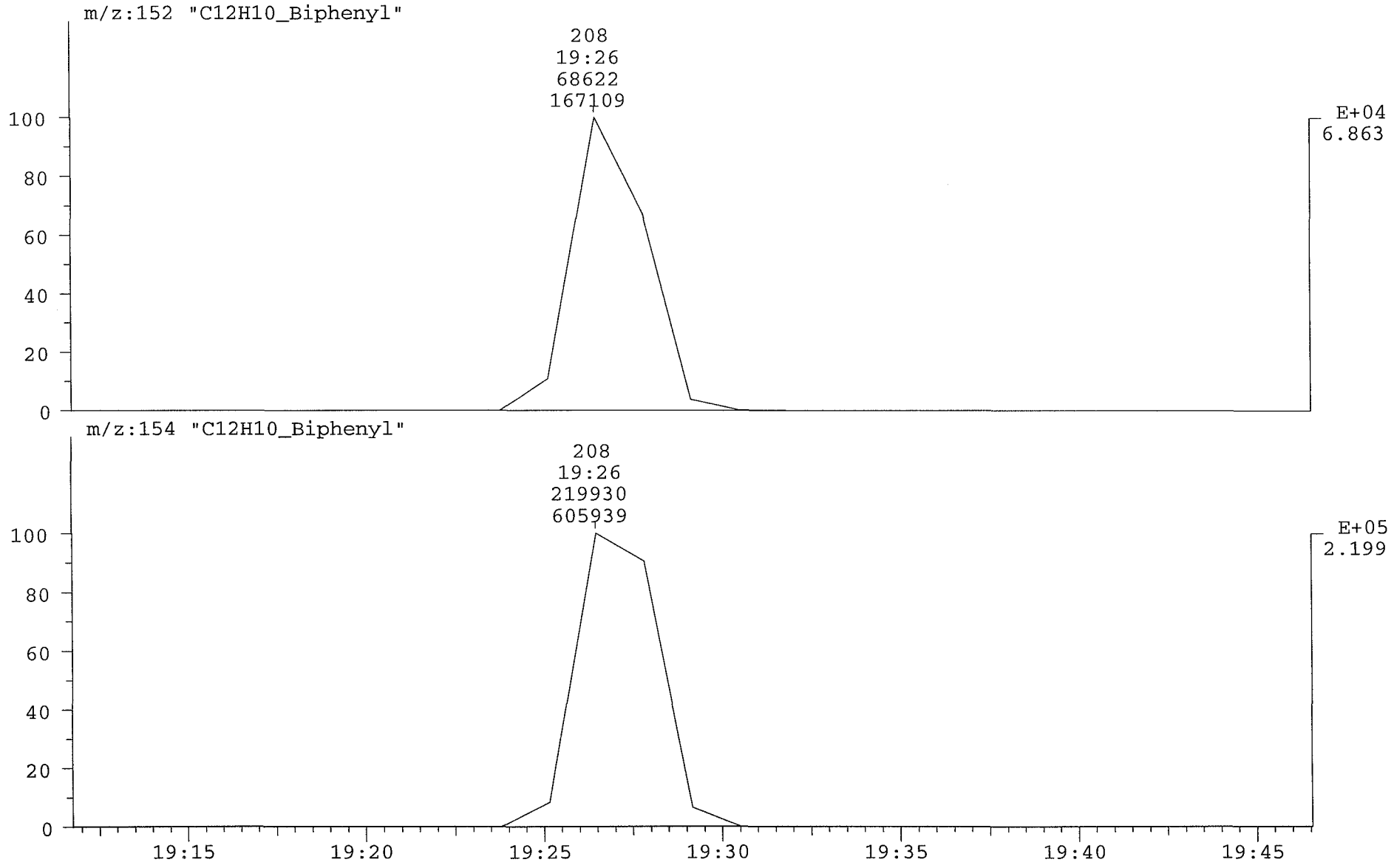
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



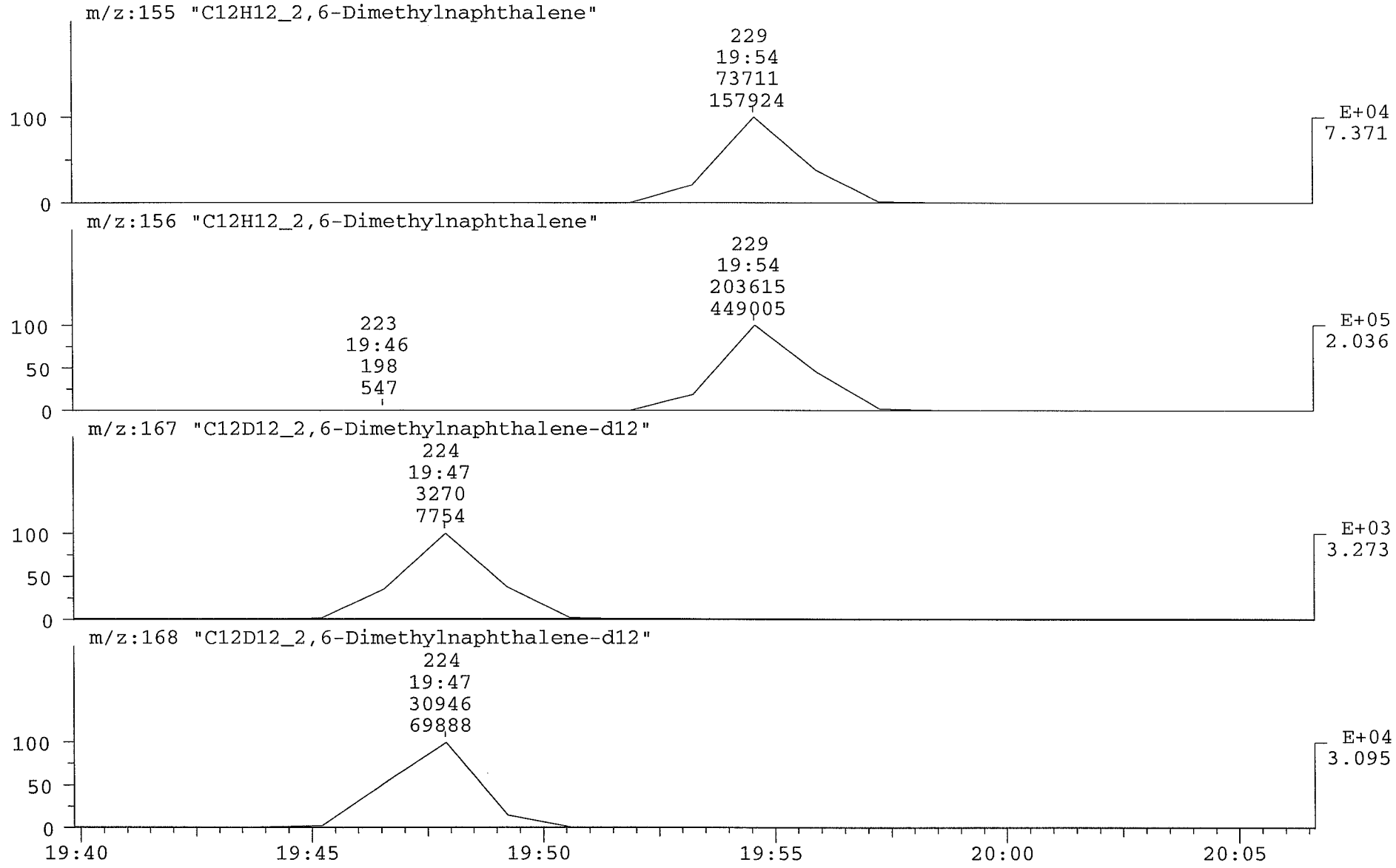
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



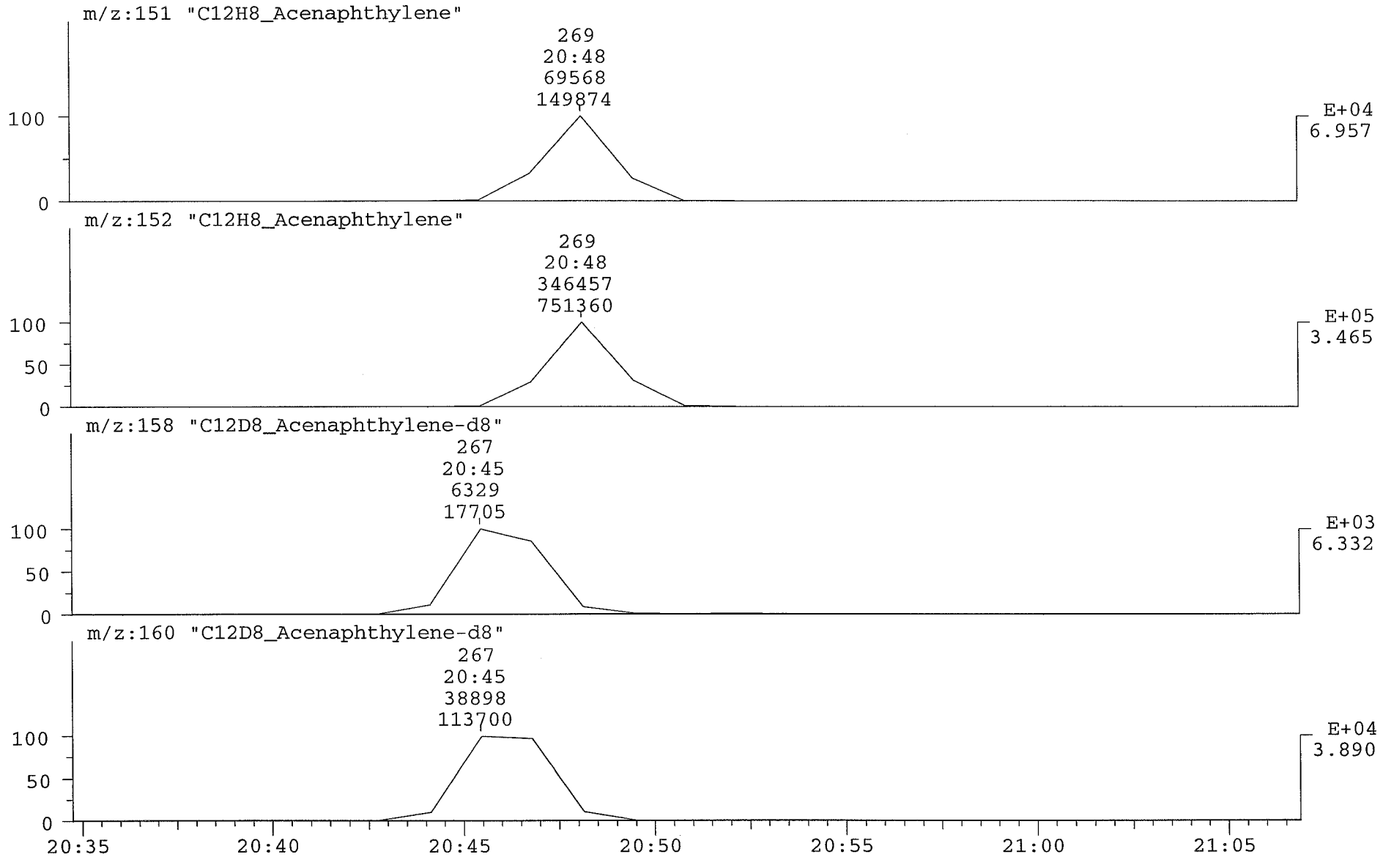
```
CHRO:  y060426i6                              26-APR-06   Elapse:   40:59       1326
Samp:  WO=y060426i6 Meth=YA1 Dil=1                        Start :   23:48:00    1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   ICAL
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   197 > 223            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



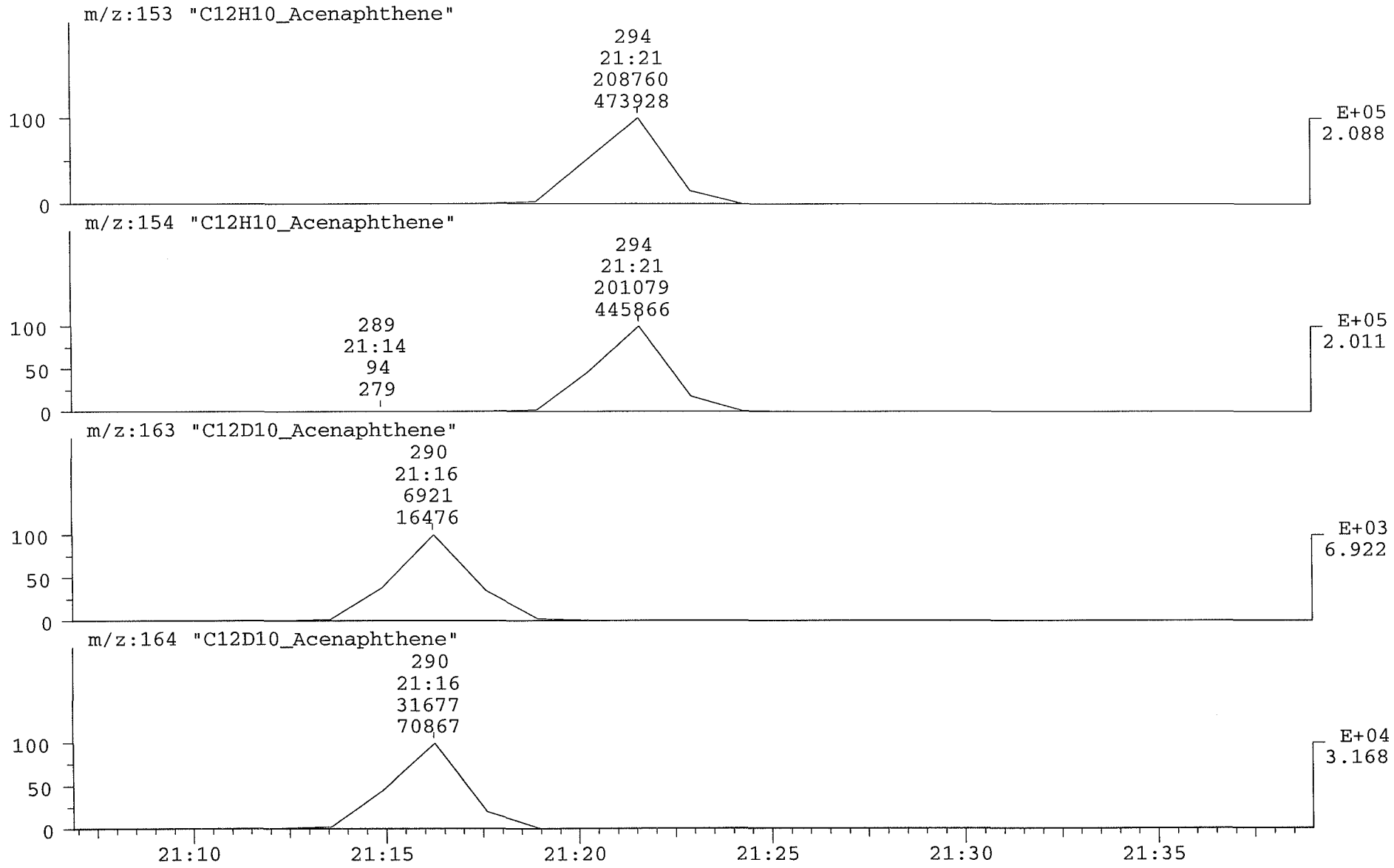
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



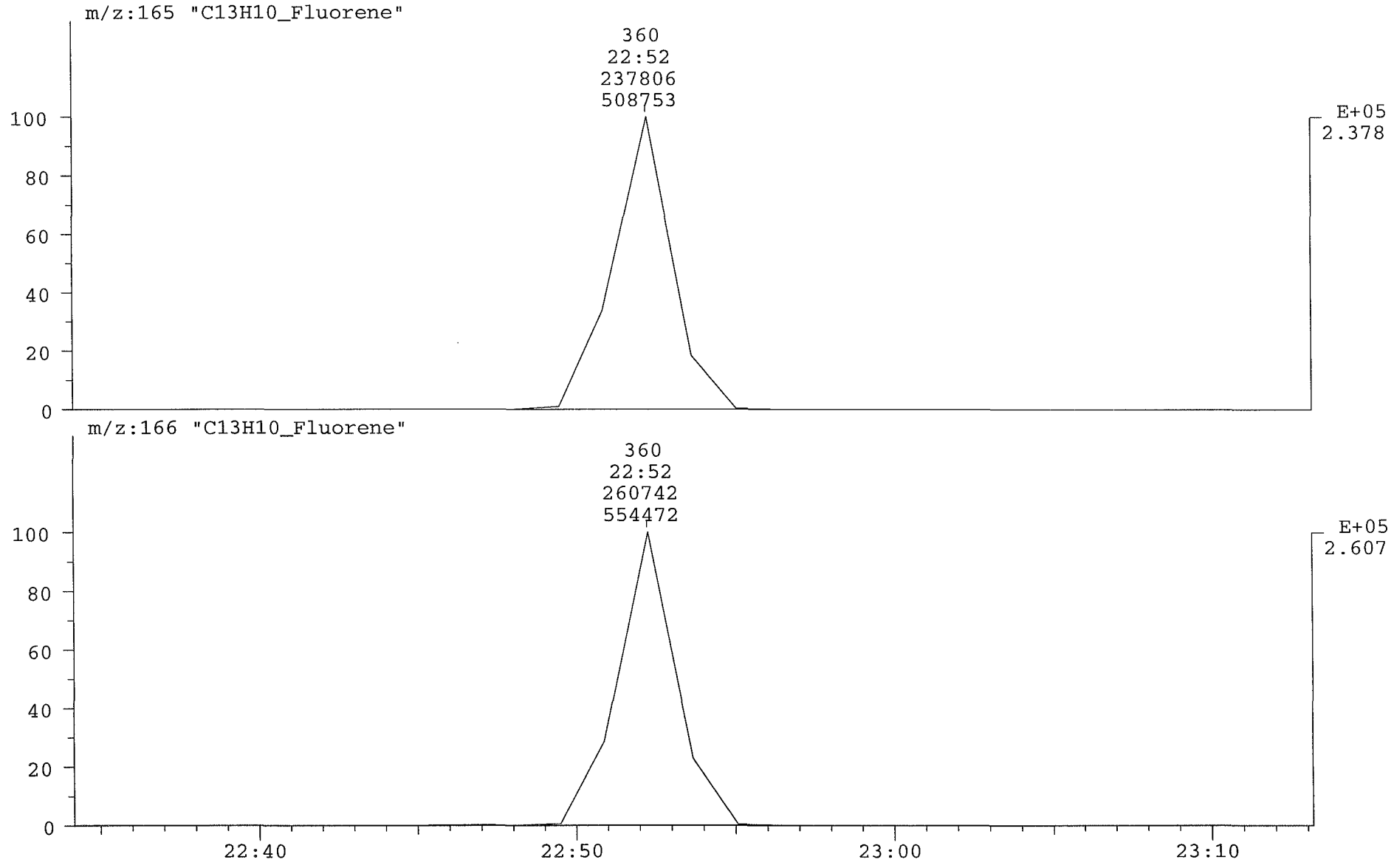
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



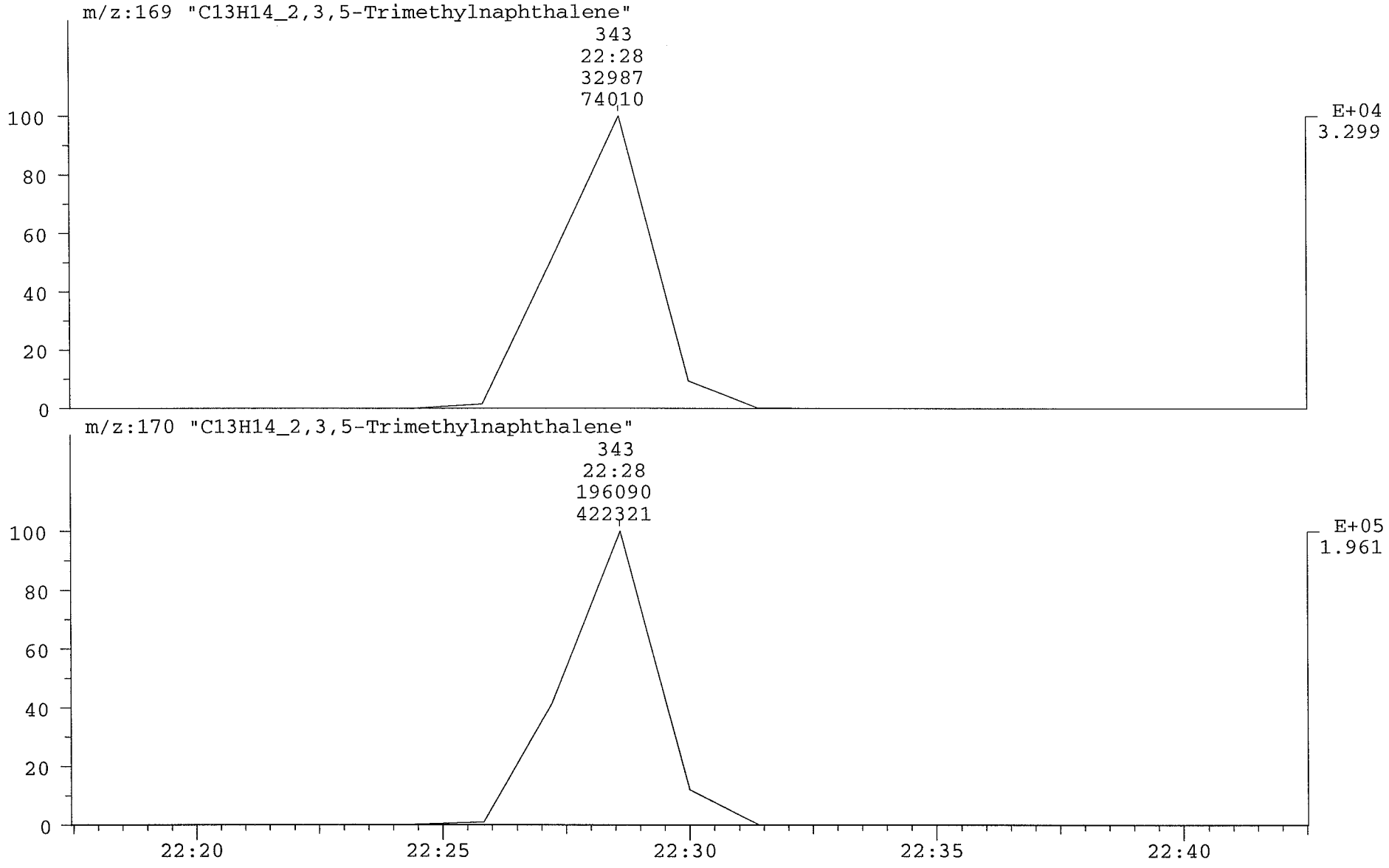
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



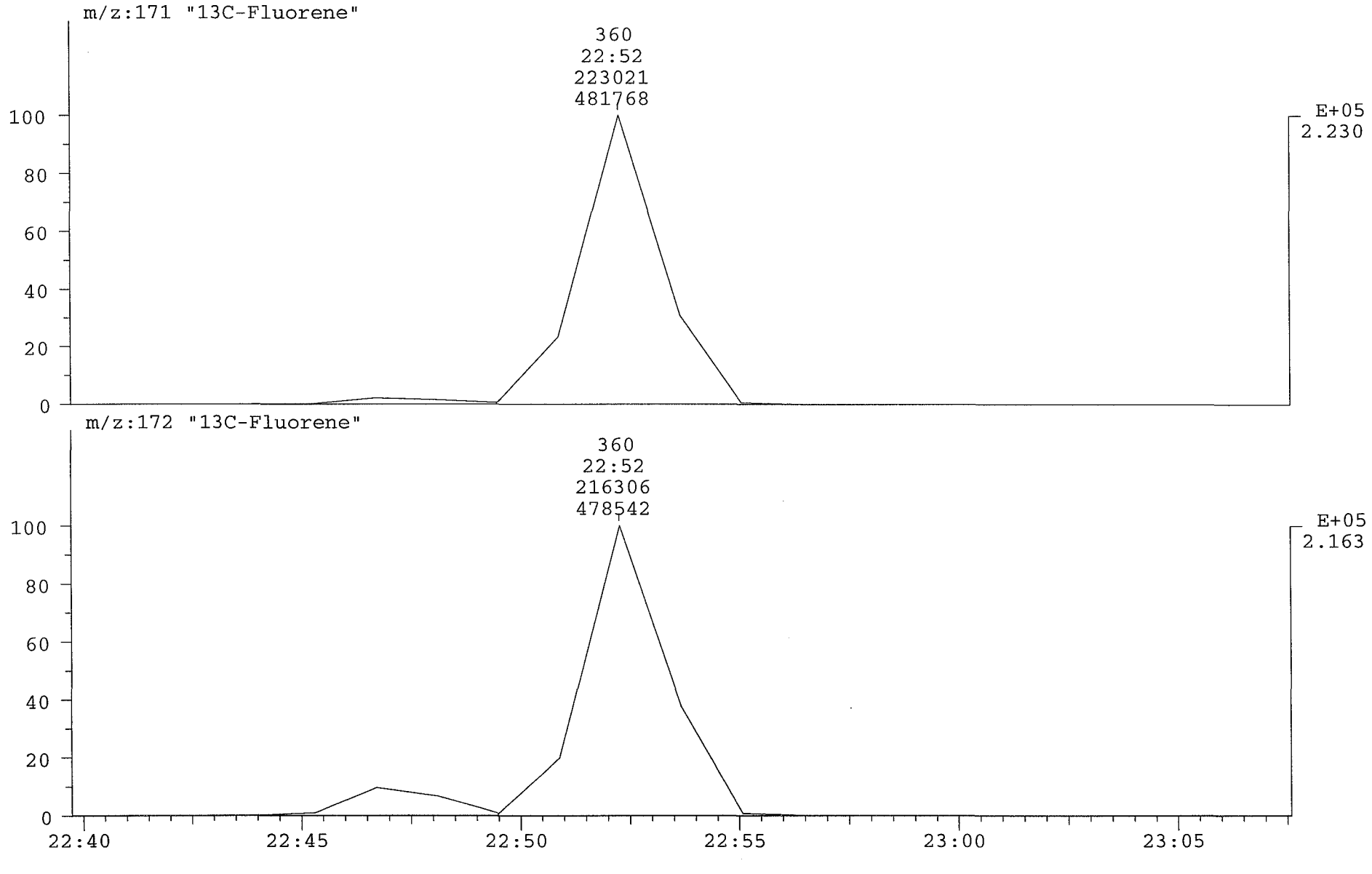
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



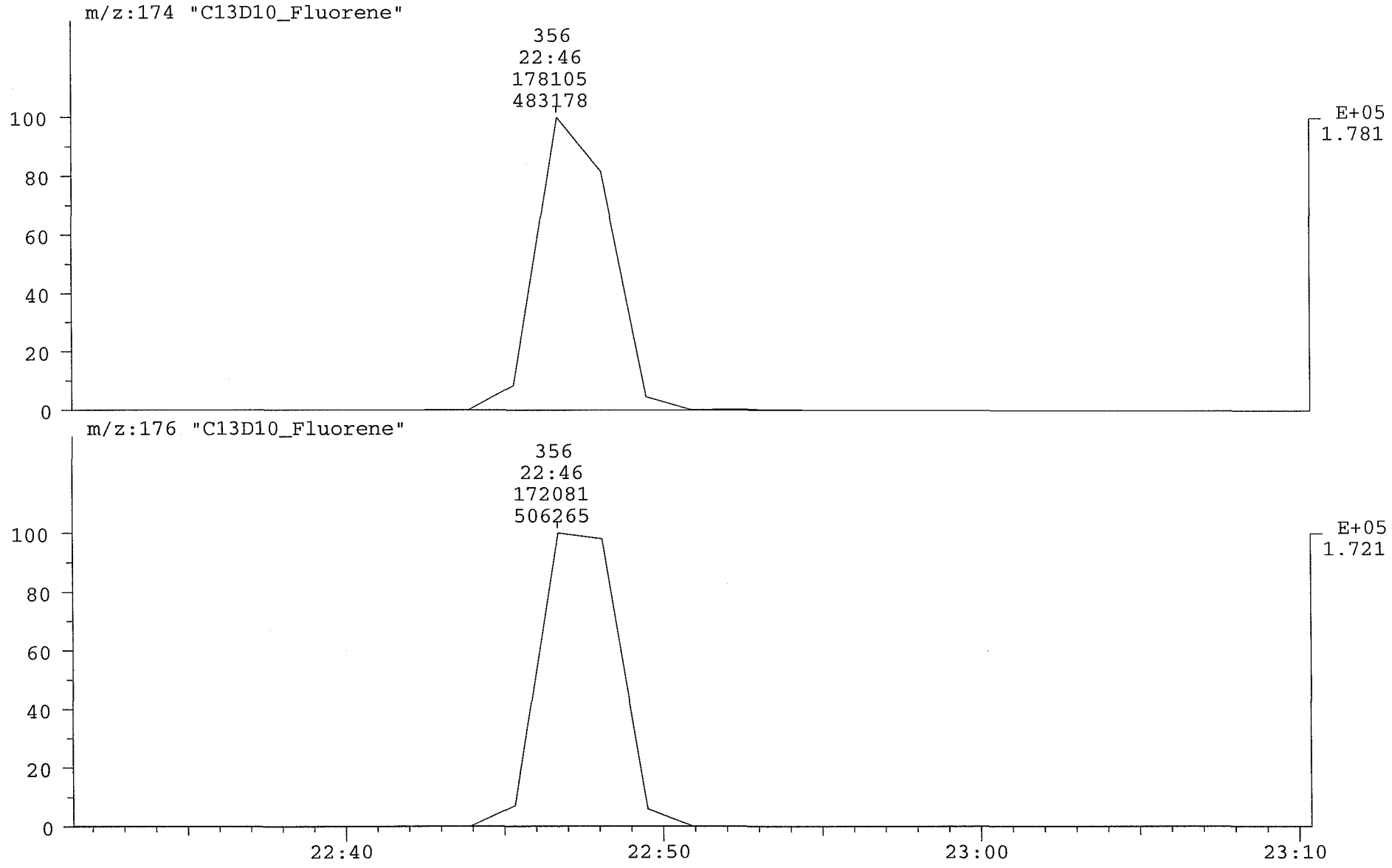
CHRO: y06042616 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



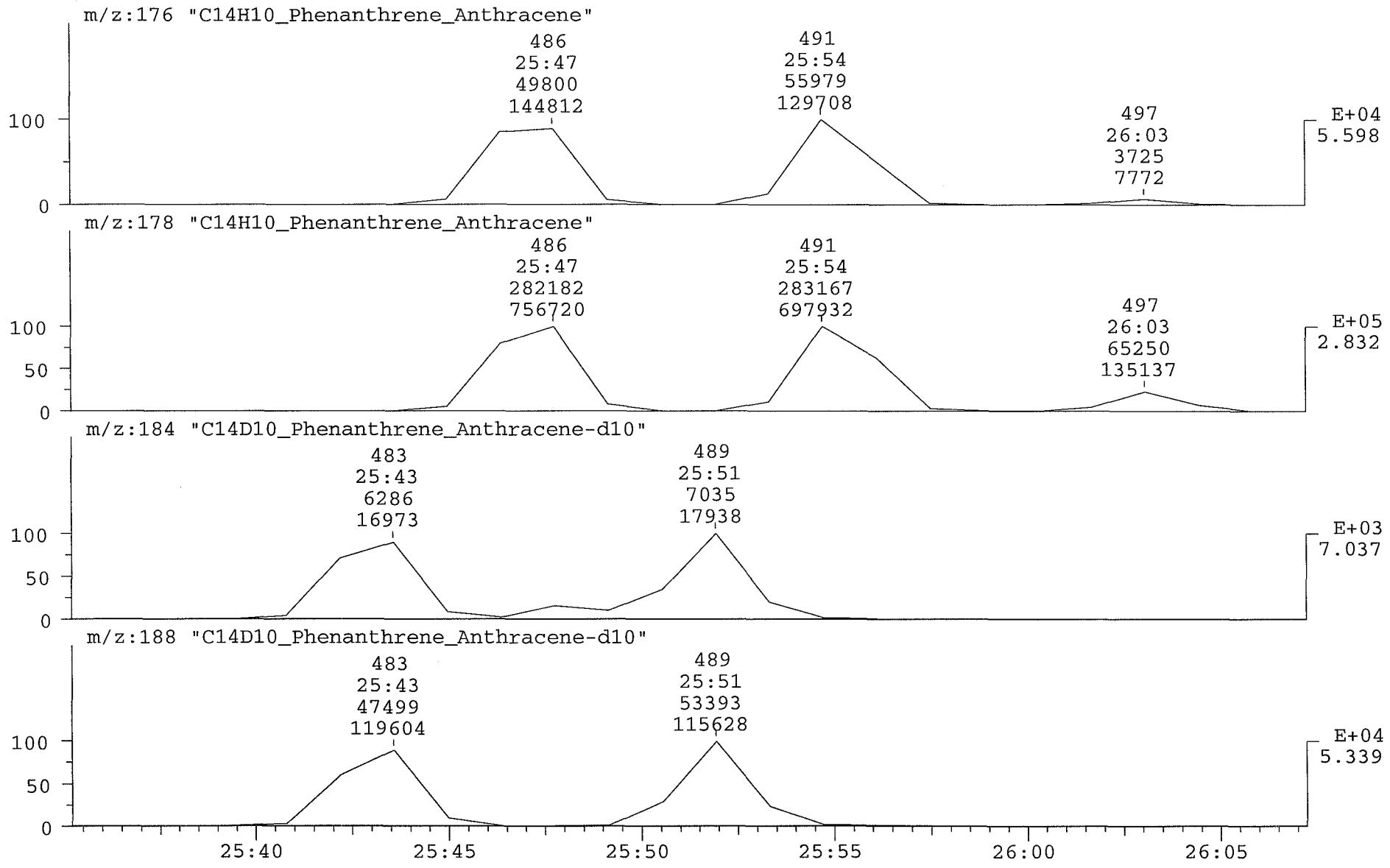
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



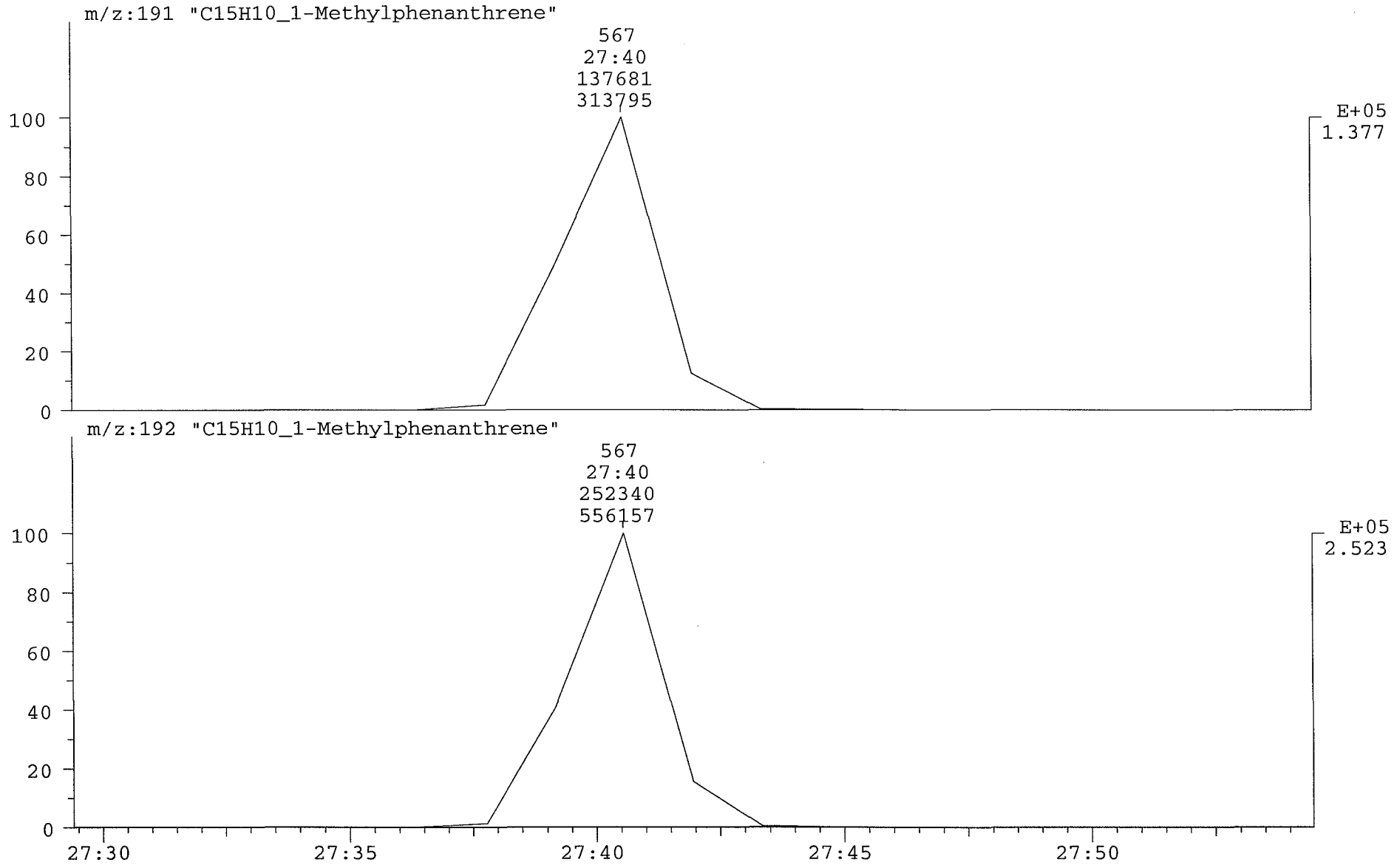
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 345 > 373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



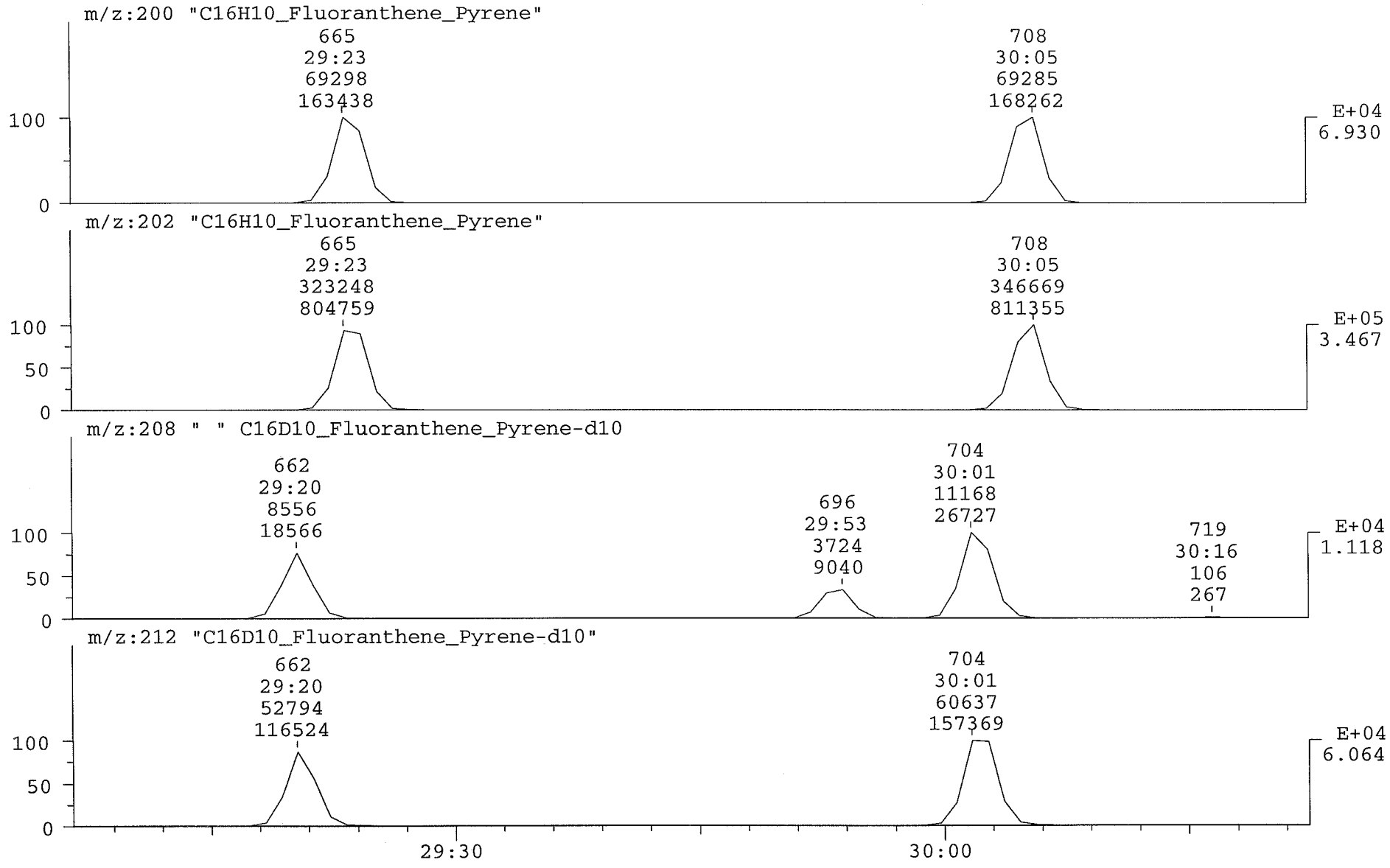
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



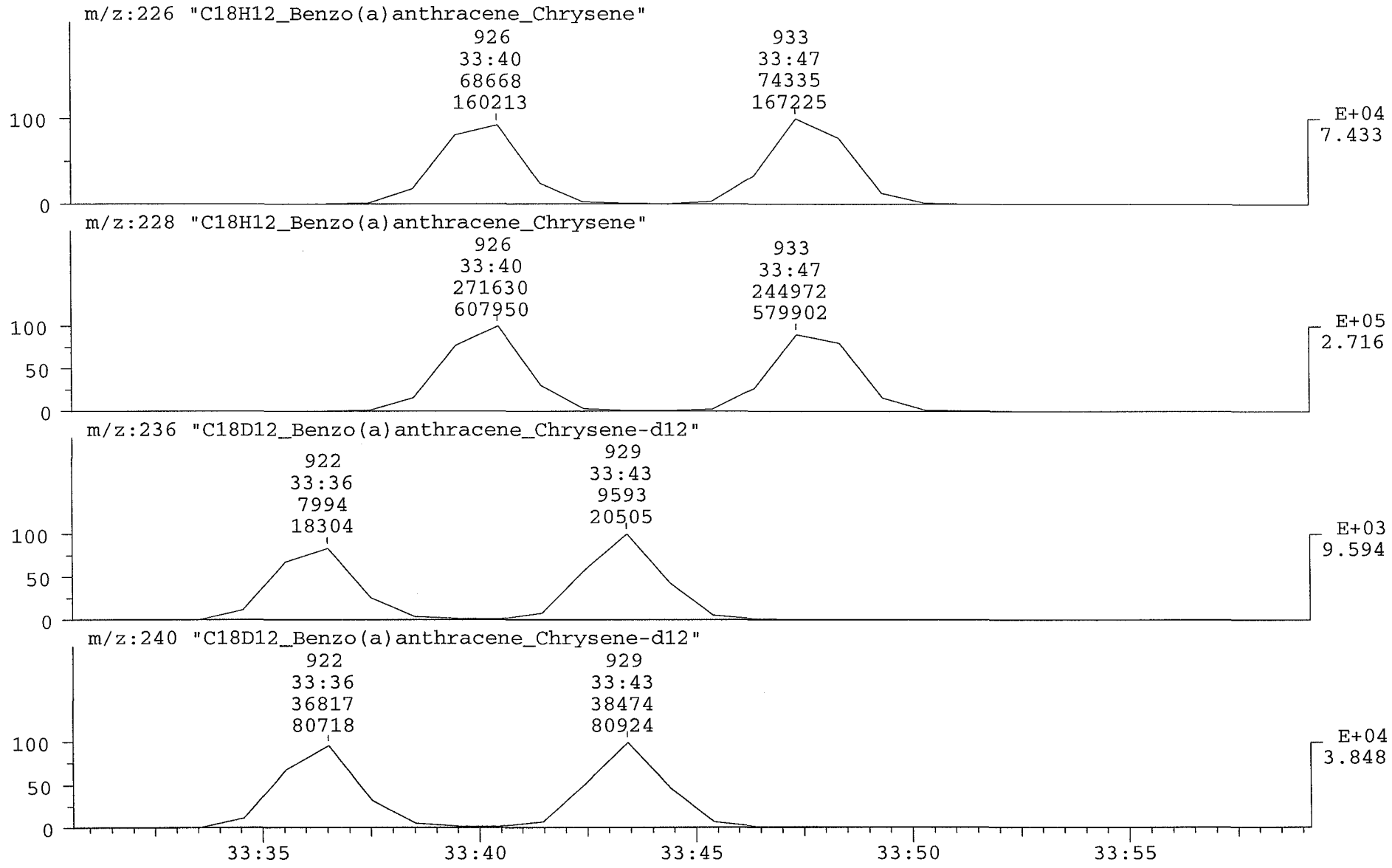
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



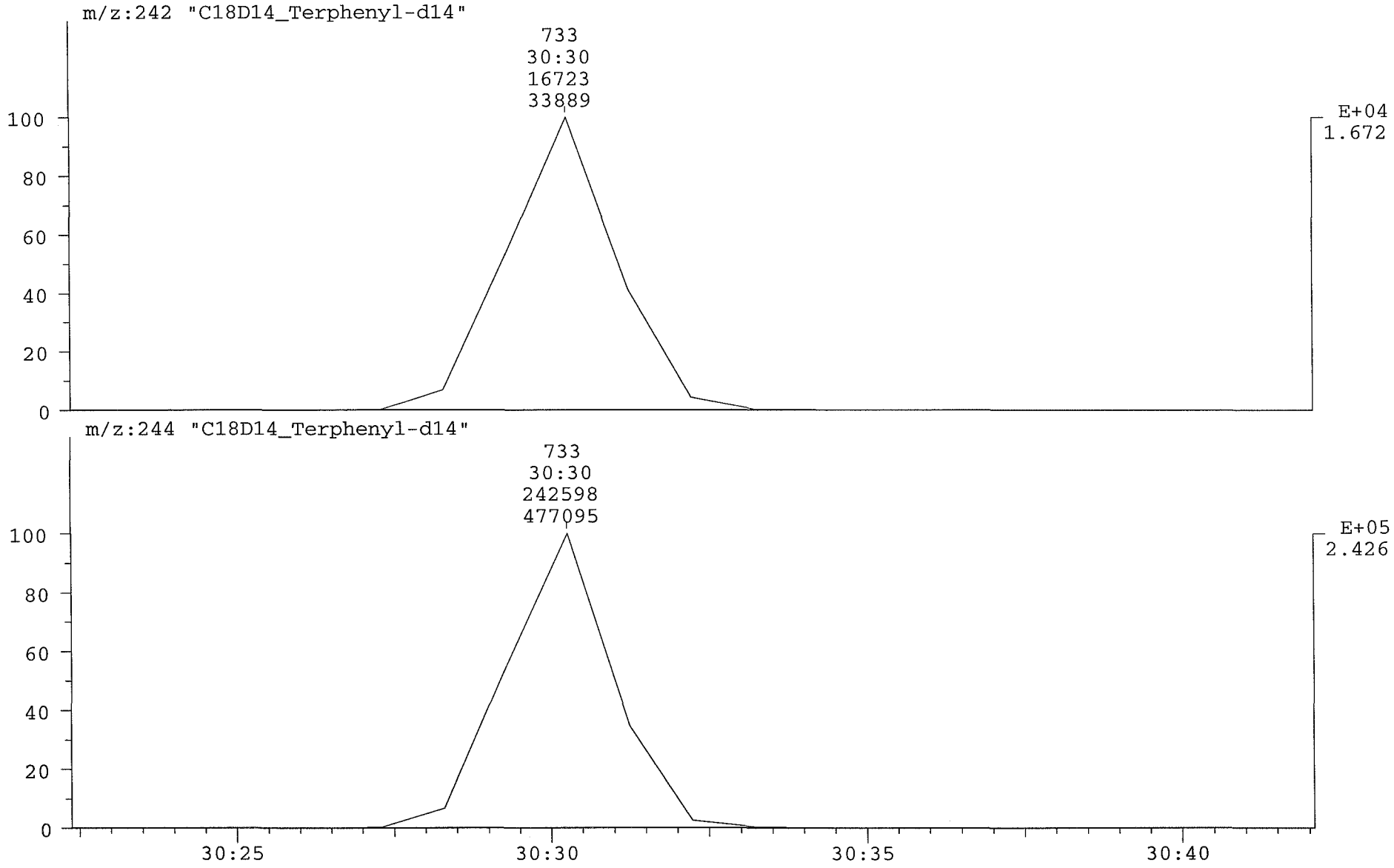
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



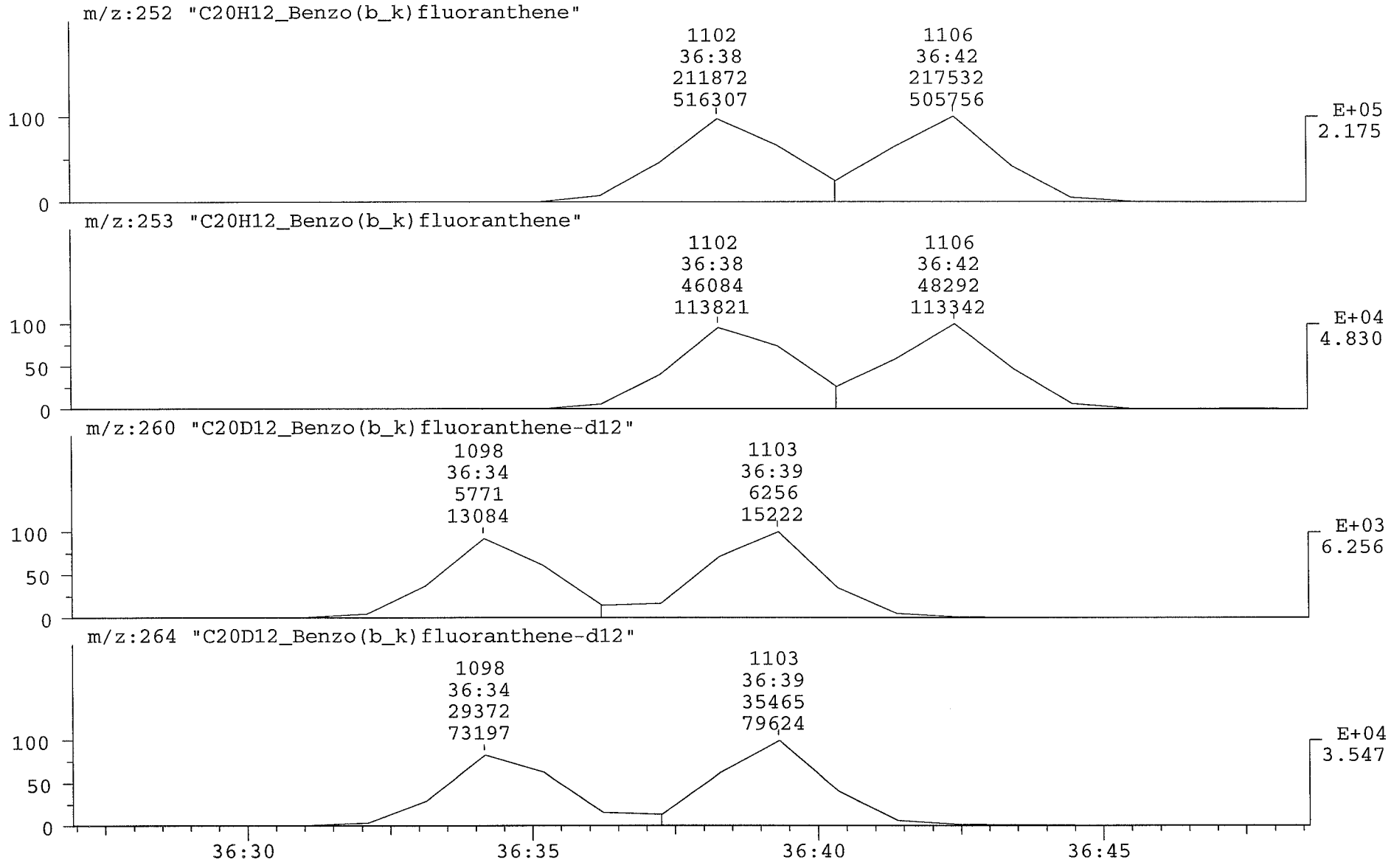
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



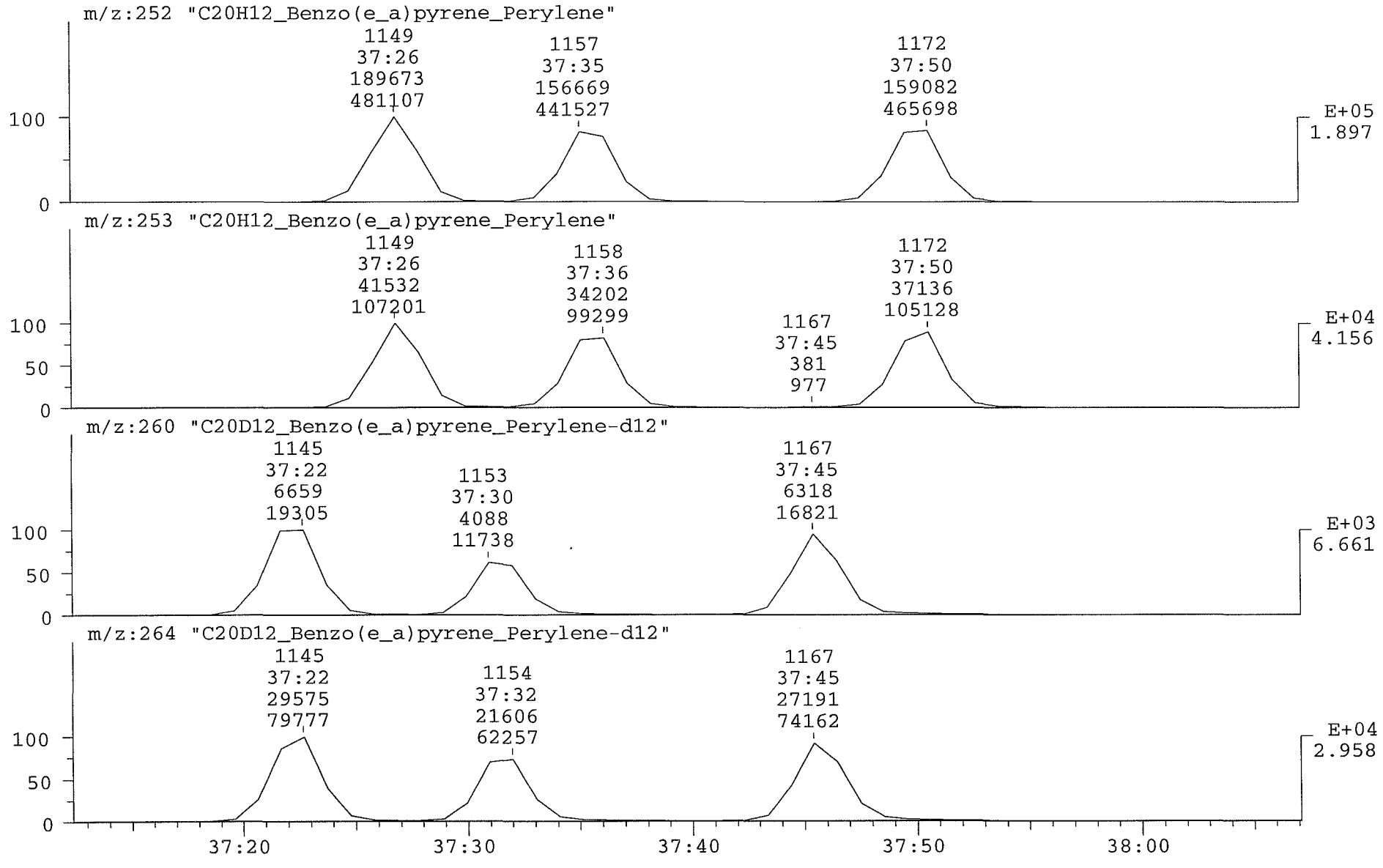
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 725 > 745 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



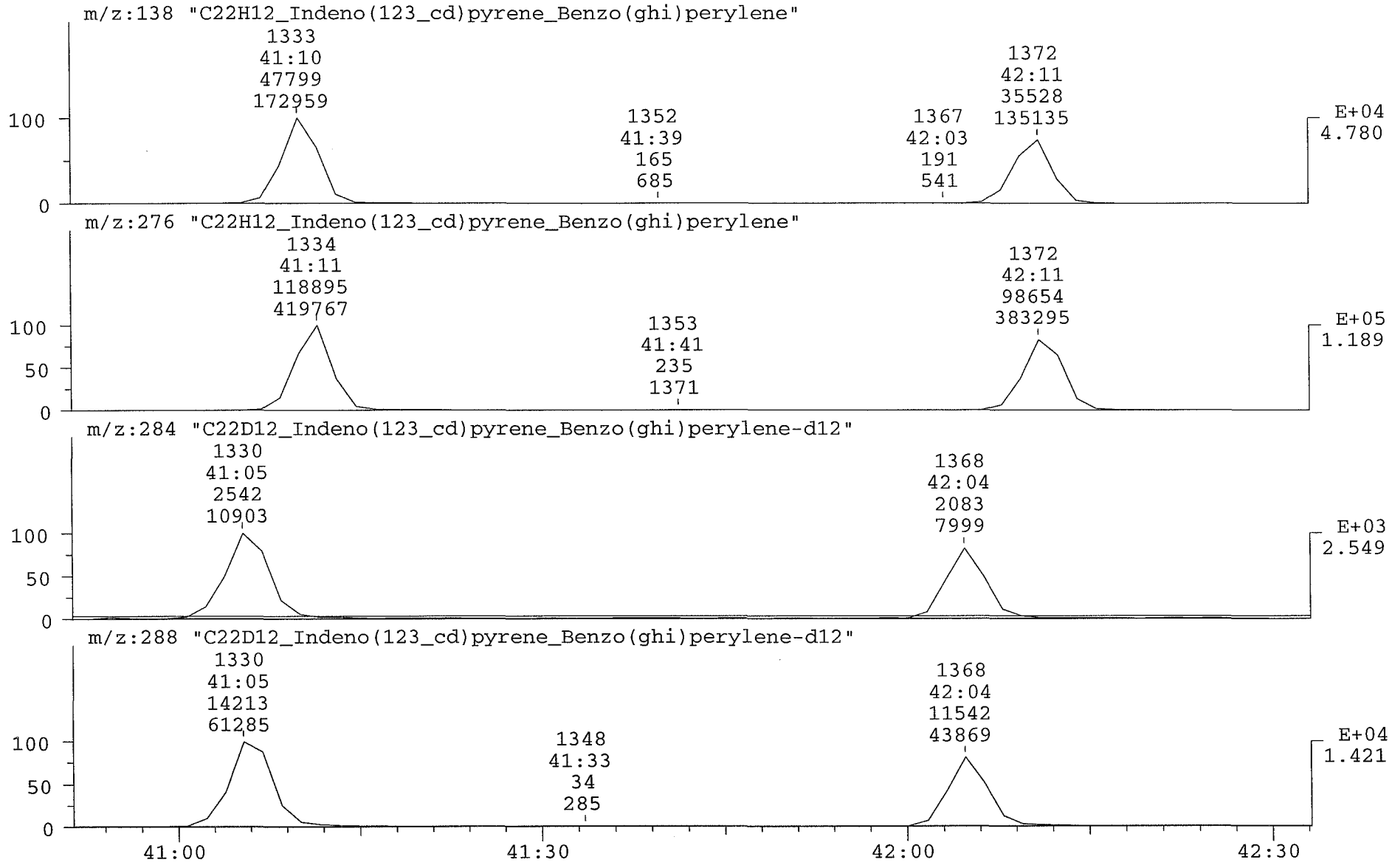
CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

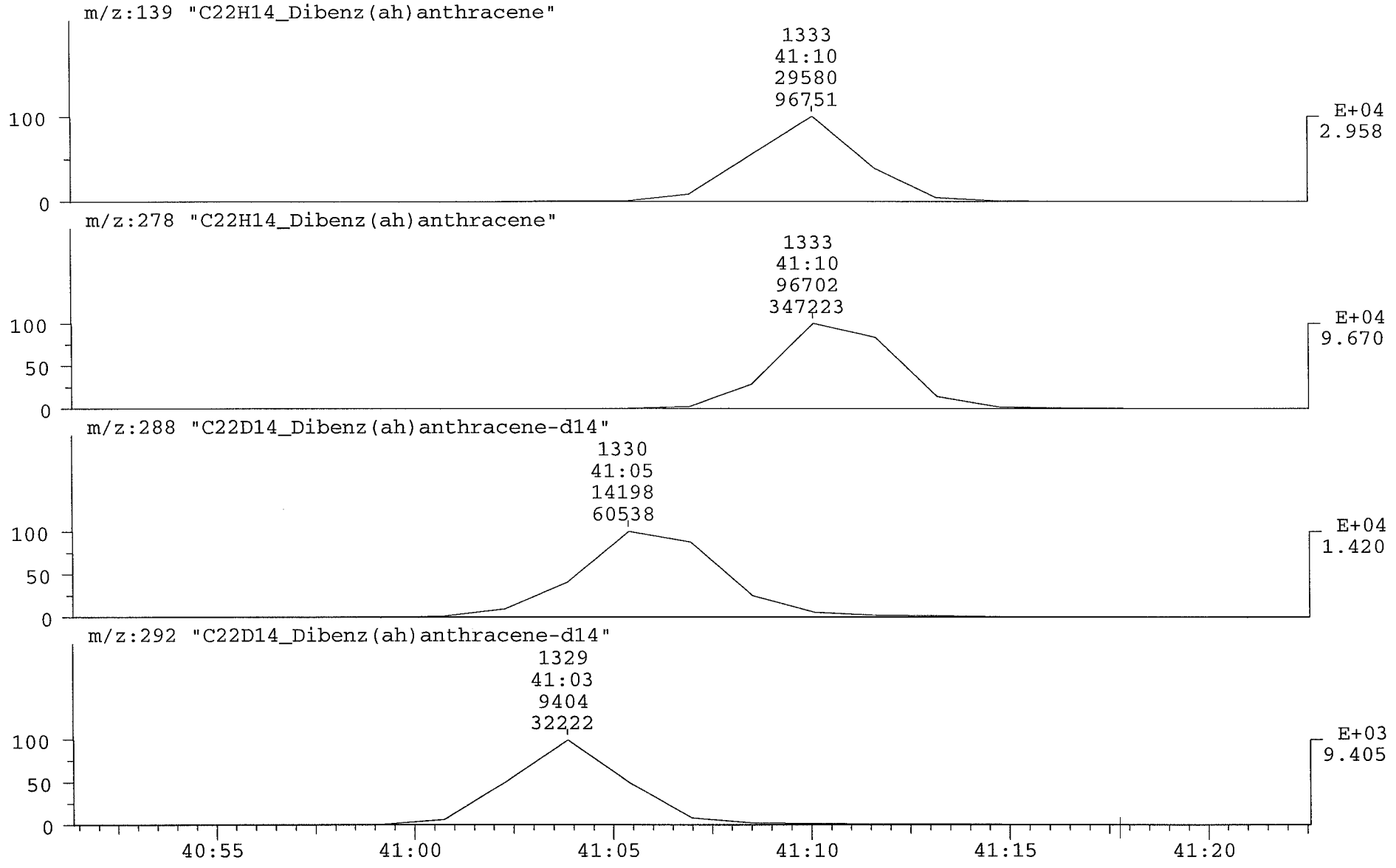


CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



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CHRO: y060426i6 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i6 Meth=YA1 Dil=1 Start : 23:48:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: Y60426I6.D
Date Acquired: 26 Apr 2006  11:48 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: Y060426I6
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  7
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Thu Apr 27 12:23:36 2006
d:\cdffiles\Y60426I6.CDF Translated at Thu Apr 27 12:23:36 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 06:49:03 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60426i6.dat
NetCDF File (input): /usr/users/hp/data/y60426i6.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 06:49:04 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I7	Prep Batch		Lot No	
Data File	/20060426i/y060426i7.d	Prep Date		SDG No	
Analysis ID	90321	Prep Exp Date		Date Received	
Analysis Date	4/27/2006	Matrix	UNKNOWN	Date Sampled	
Analysis Time	00:38	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	99618	43890	1.000	500.0	817.868344	163.57	817.868344	0.321
Naphthalene	16:01	1188815	466255	1.000	5000	5966.86844	119.34	5966.86844	0.456
~~1,4-Dichlorobenzene-d4~~					~~500.0~~			~~ND~~	~~0.000000~~
~~1,4-Dichlorobenzene~~				~~1.000~~	~~5000~~			~~ND~~	~~0.000000~~
2-Methylnaphthalene	18:03	840554	392995	1.000	5000	6286.11385	125.72	6286.11385	0.321
2-Methylnaphthalene-d10	17:58	66858	31200	1.000	500.0	548.907243	109.78	548.907243	0.643
1-Methylnaphthalene	18:23	791772	343190	1.000	5000	6795.62620	135.91	6795.62620	0.372
1-Methylnaphthalene-d10	18:17	58256	26910	1.000	500.0	478.284429	95.66	478.284429	0.643
~~1-Chloronaphthalene~~				~~1.000~~	~~5000~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene~~				~~1.000~~	~~5000~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene-d7~~					~~500.0~~			~~ND~~	~~0.000000~~
Biphenyl	19:27	1018239	377376	1.000	5000	7614.93763	152.30	7614.93763	0.681
2,6-Dimethylnaphthalene	19:54	749458	328014	1.000	5000	6079.01952	121.58	6079.01952	1.58
2,6-Dimethylnaphthalene-d1	19:47	61643	27697	1.000	500.0	506.091854	101.22	506.091854	0.459
~~C2-Alkylnaphthalenes~~				~~1.000~~		~~6079.01952~~		~~6079.01952~~	~~0.997~~
Acenaphthylene	20:48	1259529	573335	1.000	5000	6244.75195	124.90	6244.75195	0.509
Acenaphthylene-d8	20:46	100847	34393	1.000	500.0	827.958490	165.59	827.958490	0.321
Acenaphthene-d10	21:16	60901	27237	1.000	500.0	500.000000	100.00	500.000000	0.275
Acenaphthene	21:21	744719	339768	1.000	5000	3692.32104	73.85	3692.32104	0.618
2,3,5-Trimethylnaphthalene	22:28	705827	335413	1.000	5000	5725.11883	114.50	5725.11883	0.406
~~C3-Alkylnaphthalenes~~				~~1.000~~		~~5725.11883~~		~~5725.11883~~	~~0.256~~
Fluorene d-10	22:48	873934	327857	1.000	5000	4212.21732	84.24	4212.21732	0.156
Fluorene-C13	22:52	810770	328493	1.000	5000	3907.77729	78.16	3907.77729	0.188
Fluorene	22:52	922390	420868	1.000	5000	4445.76722	88.92	4445.76722	0.188
Phenanthrene-d10	25:43	103738	39982	1.000	500.0	394.180276	78.84	394.180276	0.200
Phenanthrene	25:47	1236668	495271	1.000	5000	5960.53519	119.21	5960.53519	0.250
Anthracene-d10	25:52	90504	41256	1.000	500.0	343.894154	68.78	343.894154	0.200
Anthracene	25:54	1153546	420118	1.000	5000	5559.90090	111.20	5559.90090	0.250
1-Methylphenanthrene	27:40	913770	426087	1.000	5000	4404.22025	88.08	4404.22025	0.313
Fluoranthene-d10	29:20	99438	43897	1.000	500.0	377.841276	75.57	377.841276	0.175
Fluoranthene	29:24	1308965	561064	1.000	5000	6581.81480	131.64	6581.81480	0.370
Pyrene-d10	30:01	131587	50073	1.000	500.0	500.000000	100.00	500.000000	0.175
Pyrene	30:05	1323509	588998	1.000	5000	6654.94580	133.10	6654.94580	0.370
Terphenyl-d14	30:30	790498	394264	1.000	5000	3974.82854	79.50	3974.82854	0.0854
Benzo(a)Anthracene-d12	33:36	67838	30373	1.000	500.0	257.768625	51.55	257.768625	0.225
Benzo(a)anthracene	33:40	986558	453458	1.000	5000	7271.42604	145.43	7271.42604	0.658
Chrysene-d12	33:43	69085	34046	1.000	500.0	262.506935	52.50	262.506935	0.225
Chrysene	33:48	934796	405407	1.000	5000	6765.54969	135.31	6765.54969	0.587
Benzo(b)Fluoranthene-d12	36:34	62039	24497	1.000	500.0	459.364402	91.87	459.364402	0.498
Benzo(k)Fluoranthene-d12	36:39	70558	31610	1.000	500.0	522.442875	104.49	522.442875	0.498
Benzo(b)fluoranthene	36:38	821073	313854	1.000	5000	6617.39390	132.35	6617.39390	1.89
Benzo(k)fluoranthene	36:42	861542	349354	1.000	5000	6105.20423	122.10	6105.20423	1.46
Benzo(e)pyrene-d12	37:22	67527	25116	1.000	500.0	500.000000	100.00	500.000000	0.498
Benzo(e)pyrene	37:26	804991	295405	1.000	5000	7493.02815	149.86	7493.02815	2.33
Benzo(a)Pyrene-d12	37:32	53716	19866	1.000	500.0	397.737201	79.55	397.737201	0.498
Benzo(a)pyrene	37:36	741224	285158	1.000	5000	6899.47129	137.99	6899.47129	2.33
Perylene-d12	37:45	64189	22132	1.000	500.0	475.283960	95.06	475.283960	0.498
Perylene	37:50	784010	292471	1.000	5000	6107.04326	122.14	6107.04326	2.09
~~3-Methylcholanthrene~~				~~1.000~~	~~5000~~			~~ND~~	~~1.30~~

VMIC 4/27/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I7	**Prep Batch**		**Lot No**	
Data File	/20060426i/y060426i7.d	**Prep Date**		**SDG No**	
Analysis ID	90321	**Prep Exp Date**		**Date Received**	
Analysis Date	4/27/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	00:38	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:03	27559	7942	1.000	500.0	204.059117	40.81	204.059117	0.299
Indeno(1,2,3-cd)pyrene-d12	41:05	52793	11889	1.000	500.0	390.902898	78.18	390.902898	0.299
Indeno(1,2,3-cd)pyrene	41:11	705674	189778	1.000	5000	6683.40500	133.67	6683.40500	2.00
Dibenz(a,h)anthracene	41:11	576861	171894	1.000	5000	10465.9276	209.32	10465.9276	2.83
Benzo(ghi)Perylene-d12	42:04	37963	9689	1.000	500.0	281.094969	56.22	281.094969	0.299
Benzo(ghi)perylene	42:12	648650	163674	1.000	5000	8543.18679	170.86	8543.18679	2.45
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	5000			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I7	Prep Batch		Lot No	
Data File	/20060426i/y060426i7.d	Prep Date		SDG No	
Analysis ID	90321	Prep Exp Date		Date Received	
Analysis Date	04/27/06 00:38	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	40		16				
	Naphthalene	16:01	00:00	0	1188815		466255			ABV	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	18		7				
	Naphthalene-d8	15:58	00:00	0	99618		43890			ABB	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene	18:03	00:00	0	840554		392995			ABV	
	1-Methylnaphthalene	18:23	00:00	0	791772		343190			AVB	
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	35		14				
	2-Methylnaphthalene-d10	17:58	00:00	0	66858		31200			ABB	
	1-Methylnaphthalene-d10	18:17	00:00	0	58256		26910			ABB	
	Acenaphthylene	20:48	00:00	0	1259529		573335			ABB	M
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	43		17				
	Biphenyl	19:27	00:00	0	1018239		377376			ABB	
	Acenaphthene	21:21	00:00	0	744719		339768			AVB	M
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	88		35				
	2,6-Dimethylnaphthalene	19:54	00:00	0	749458		328014			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	18		7				
	Acenaphthylene-d8	20:46	00:00	0	100847		34393			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	13		5				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	15		6				
	Acenaphthene-d10	21:16	00:00	0	60901		27237			ABB	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluorene	22:52	00:00	0	922390		420868			AVB	M
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	25		10				
	2,6-Dimethylnaphthalene	19:47	00:00	0	61643		27697			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	18		7				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	23		9				
	2,3,5-Trimethylnaphthal	22:28	00:00	0	705827		335413			ABB	M
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	15		6				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I7	Prep Batch		Lot No	
Data File	/20060426i/y060426i7.d	Prep Date		SDG No	
Analysis ID	90321	Prep Exp Date		Date Received	
Analysis Date	04/27/06 00:38	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					**172.0000**		**172.0000**				
	Fluorene-C13	22:52	00:00	0	810770 ✓		328493			AVB	M
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	13		5				
	Fluorene d-10	22:48	00:00	0	873934 ✓		327857			ABB	M
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	20		8				
	Phenanthrene	25:47	00:00	0	1236668 ✓		495271			ABV	M
	Anthracene	25:54	00:00	0	1153546 ✓		420118			AVV	M
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	20		8				
	Phenanthrene-d10	25:43	00:00	0	103738 ✓		39982			ABV	M
	Anthracene-d10	25:52	00:00	0	90504 ✓		41256			AVB	M
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	25		10				
	1-Methylphenanthrene	27:40	00:00	0	913770 ✓		426087			ABB	M
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	33		13				
	Fluoranthene	29:24	00:00	0	1308965 ✓		561064			ABV	M
	Pyrene	30:05	00:00	0	1323509 ✓		588998			ABV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene-d10	29:20	00:00	0	99438 ✓		43897			ABV	
	Pyrene-d10	30:01	00:00	0	131587 ✓		50073			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	40		16				
	Benzo(a)anthracene	33:40	00:00	0	986558 ✓		453458			ABV	M
	Chrysene	33:48	00:00	0	934796 ✓		405407			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)Anthracene-d12	33:36	00:00	0	67838 ✓		30373			ABV	
	Chrysene-d12	33:43	00:00	0	69085 ✓		34046			AVB	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	8		3				
	Terphenyl-d14	30:30	00:00	0	790498 ✓		394264			ABB	
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	93		37				
	Benzo(b)fluoranthene	36:38	00:00	0	821073 ✓		313854			ABV	M
	Benzo(k)fluoranthene	36:42	00:00	0	861542 ✓		349354			AVB	M
	Benzo(e)pyrene	37:26	00:00	0	804991 ✓		295405			ABV	M
	Benzo(a)pyrene	37:36	00:00	0	741224 ✓		285158			AVV	M
	Perylene	37:50	00:00	0	784010 ✓		292471			AVV	M
264					**264.0000**		**264.0000**				

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060426I7	Prep Batch		Lot No	
Data File	/20060426i/y060426i7.d	Prep Date		SDG No	
Analysis ID	90321	Prep Exp Date		Date Received	
Analysis Date	04/27/06 00:38	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

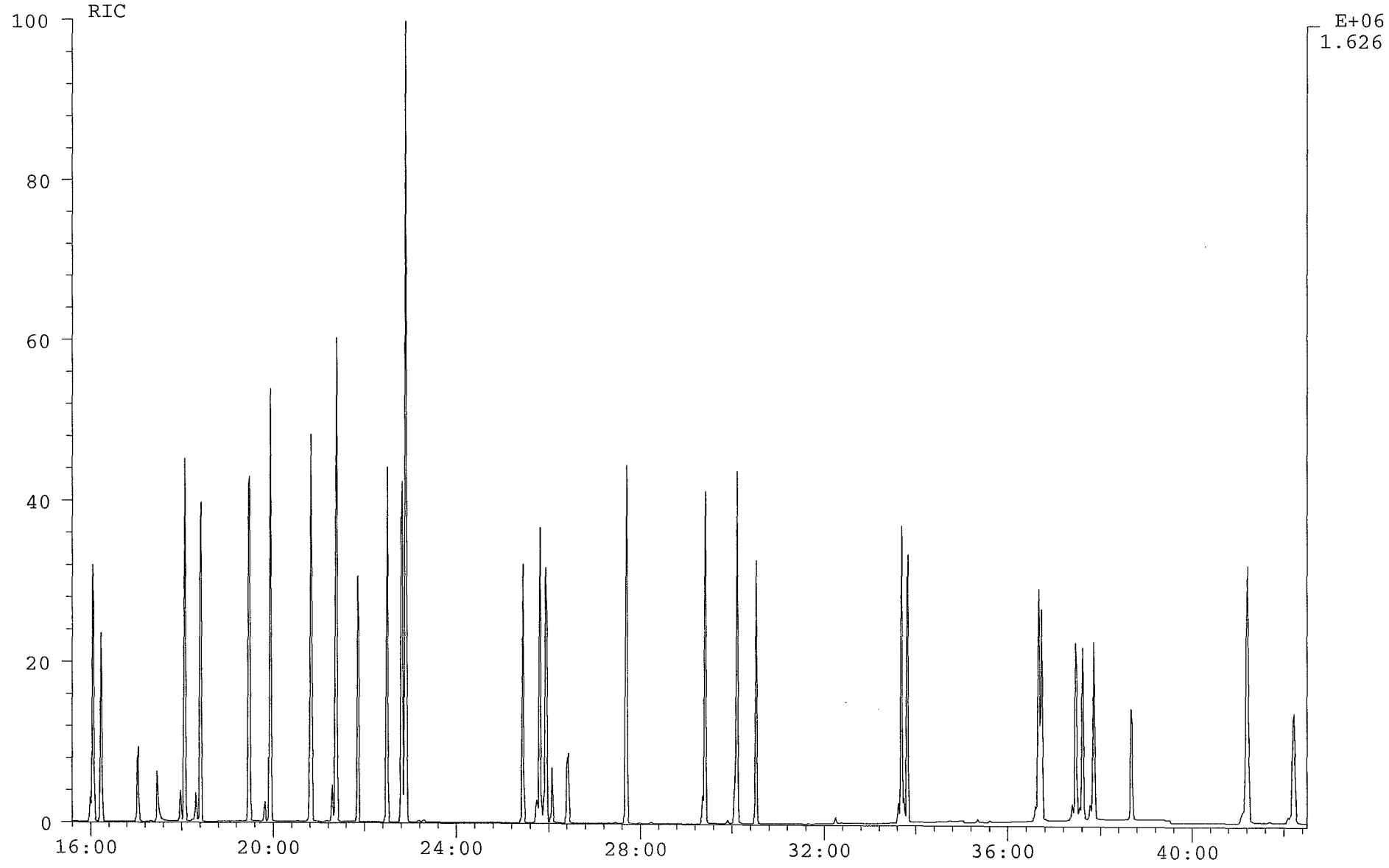
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	25		10				
	Benzo(b)Fluoranthene-d1	36:34	00:00	0	62039		24497			ABV	M
	Benzo(k)Fluoranthene-d1	36:39	00:00	0	70558		31610			AVB	M
	Benzo(e)pyrene-d12	37:22	00:00	0	67527		25116			ABV	M
	Benzo(a)Pyrene-d12	37:32	00:00	0	53716		19866			AVV	M
	Perylene-d12	37:45	00:00	0	64189		22132			AVV	M
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	58		23				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	48		19				
	Indeno(1,2,3-cd)pyrene	41:11	00:00	0	705674		189778			ABV	
	Benzo(ghi)perylene	42:12	00:00	0	648650		163674			ABB	M
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	45		18				
	Dibenz(a,h)anthracene	41:11	00:00	0	576861		171894			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene-	41:05	00:00	0	52793		11889			ABV	
	Benzo(ghi)Perylene-d12	42:04	00:00	0	37963		9689			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	15		6				
	Dibenz(ah)Anthracene-d1	41:03	00:00	0	27559		7942			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	10		4				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	5		2				

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

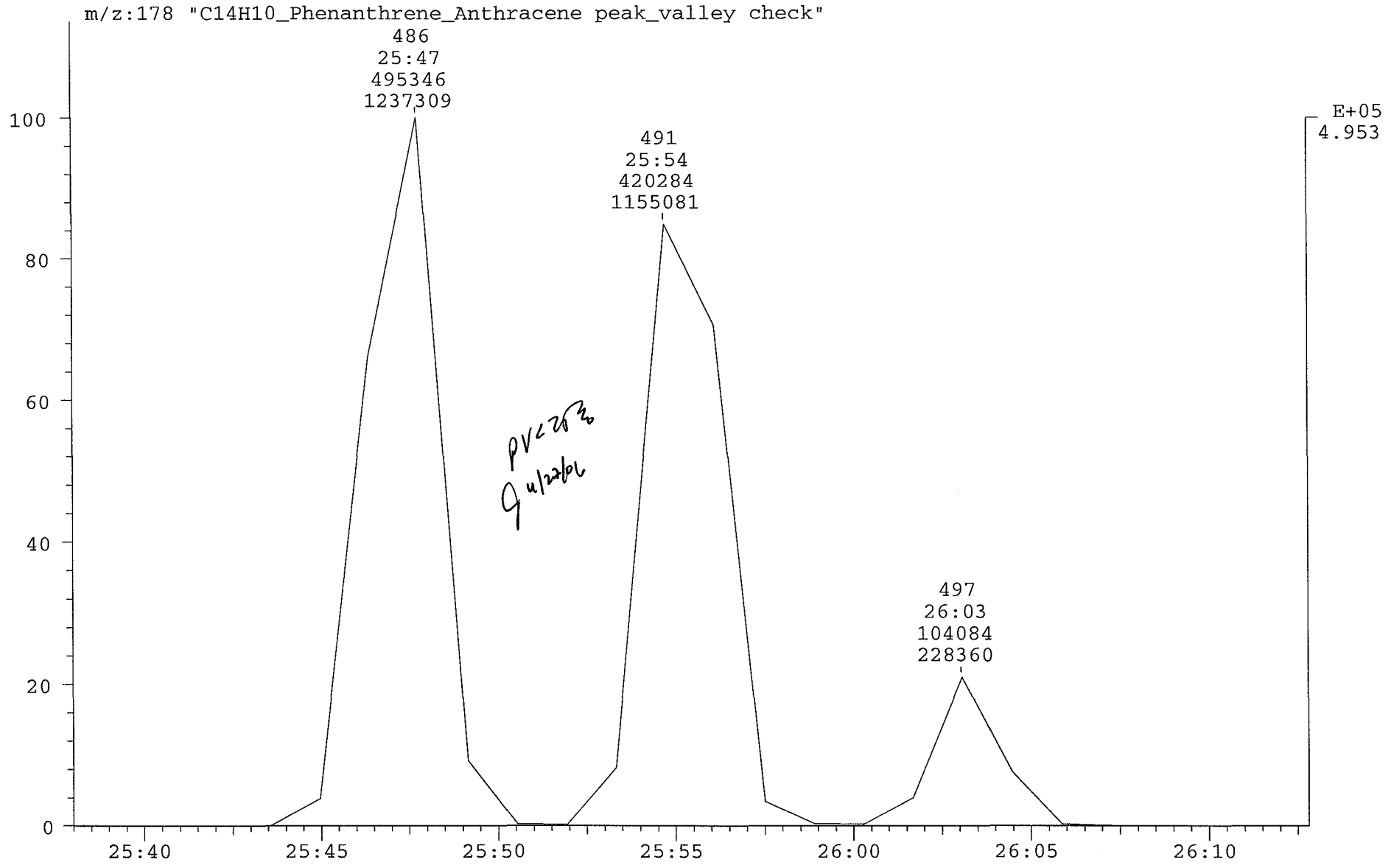
7

CHRO: y060426i7 26-APR-06 Elapse: 49:19 1735
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : ~~24:38~~:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD VMIC 4/27/06 R2 00:38
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1731 > 1739 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : 0, 3.0
Disp: Height Area

Unt/Calc: 4/27/06
QC VMIC 4/27/06

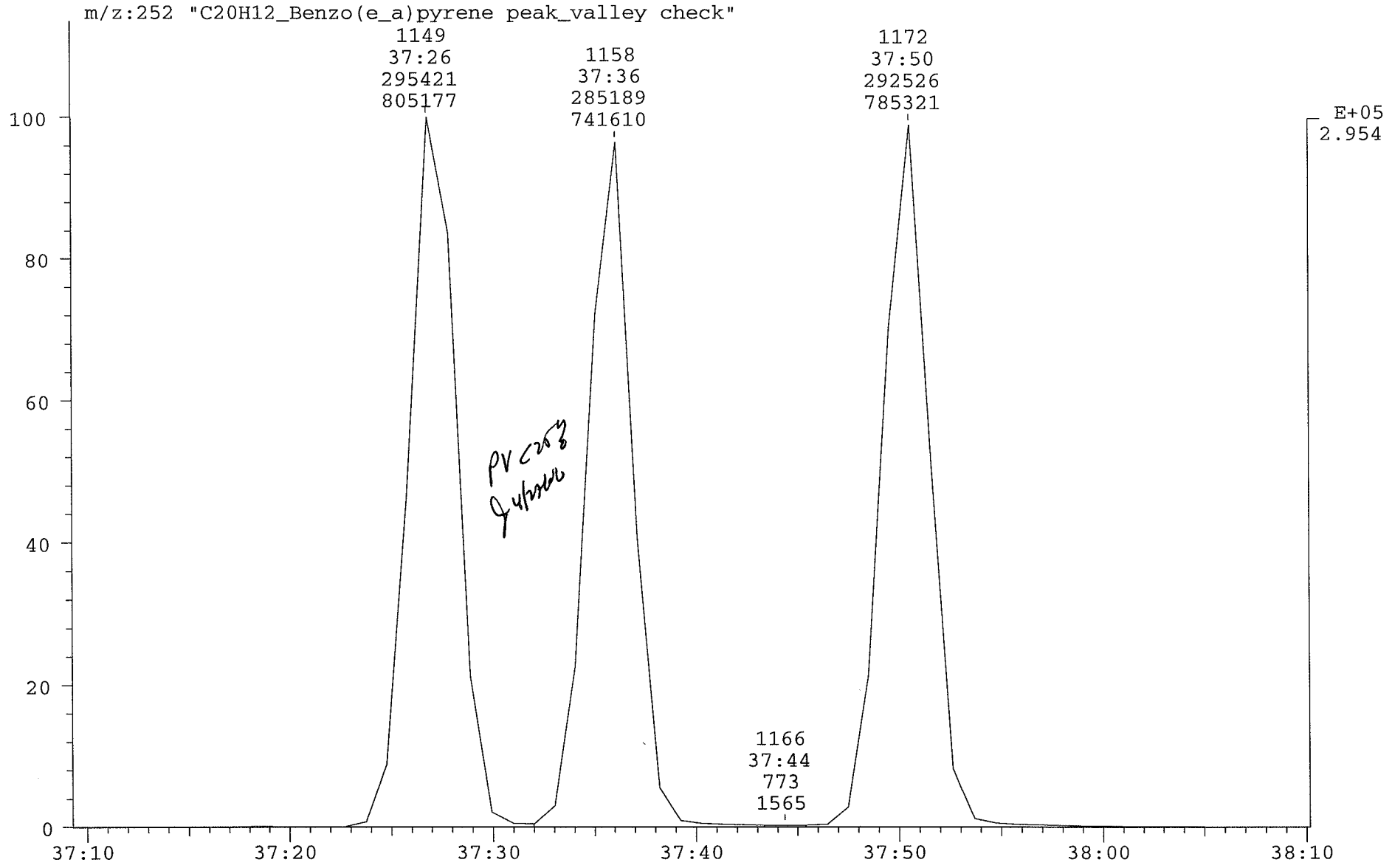


CHRO: y060426i7 26-APR-06 Elapse: 40:59 1326
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 479 > 504 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



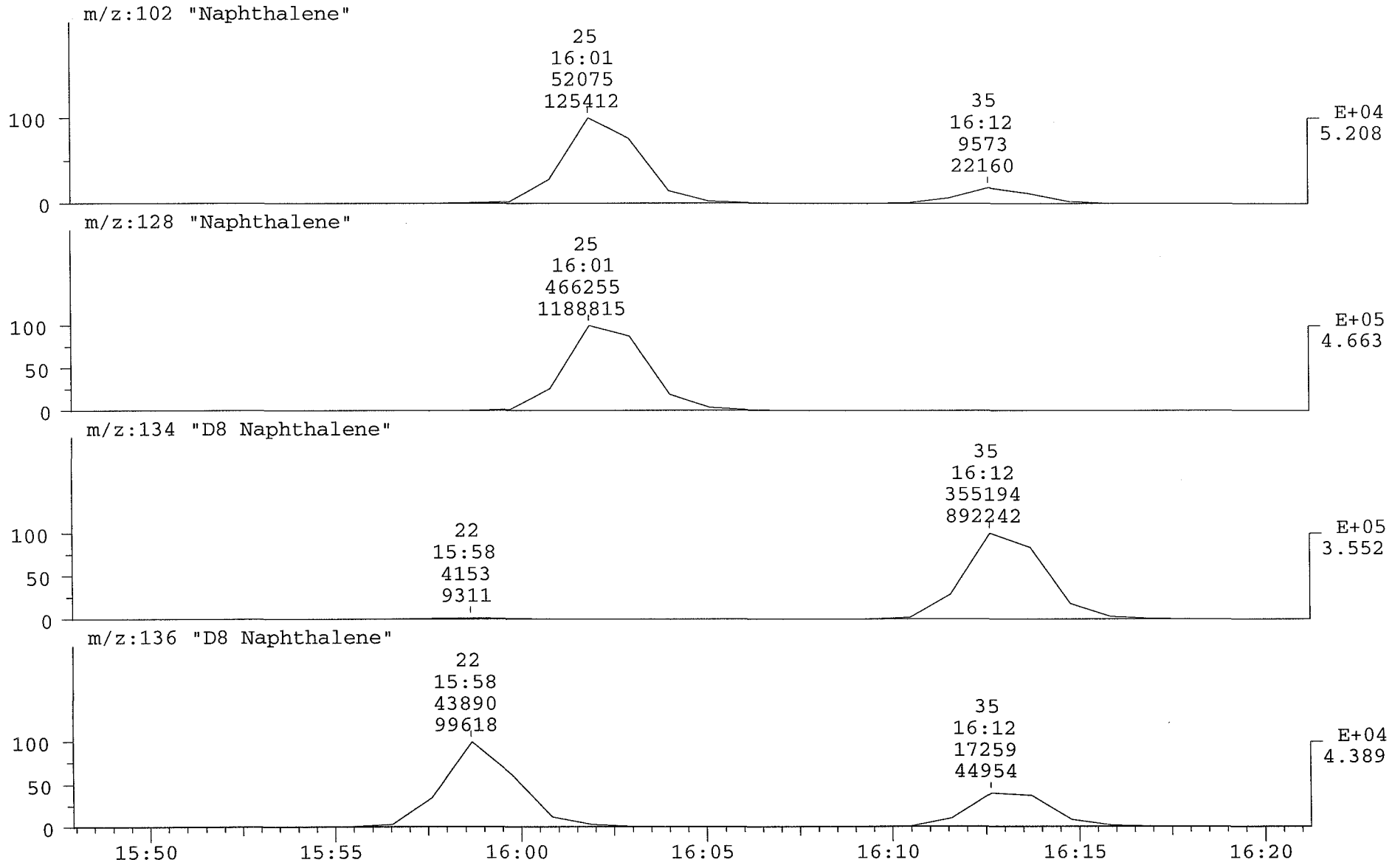
pv < 25%
q 4/27/06

CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1132 > 1191 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

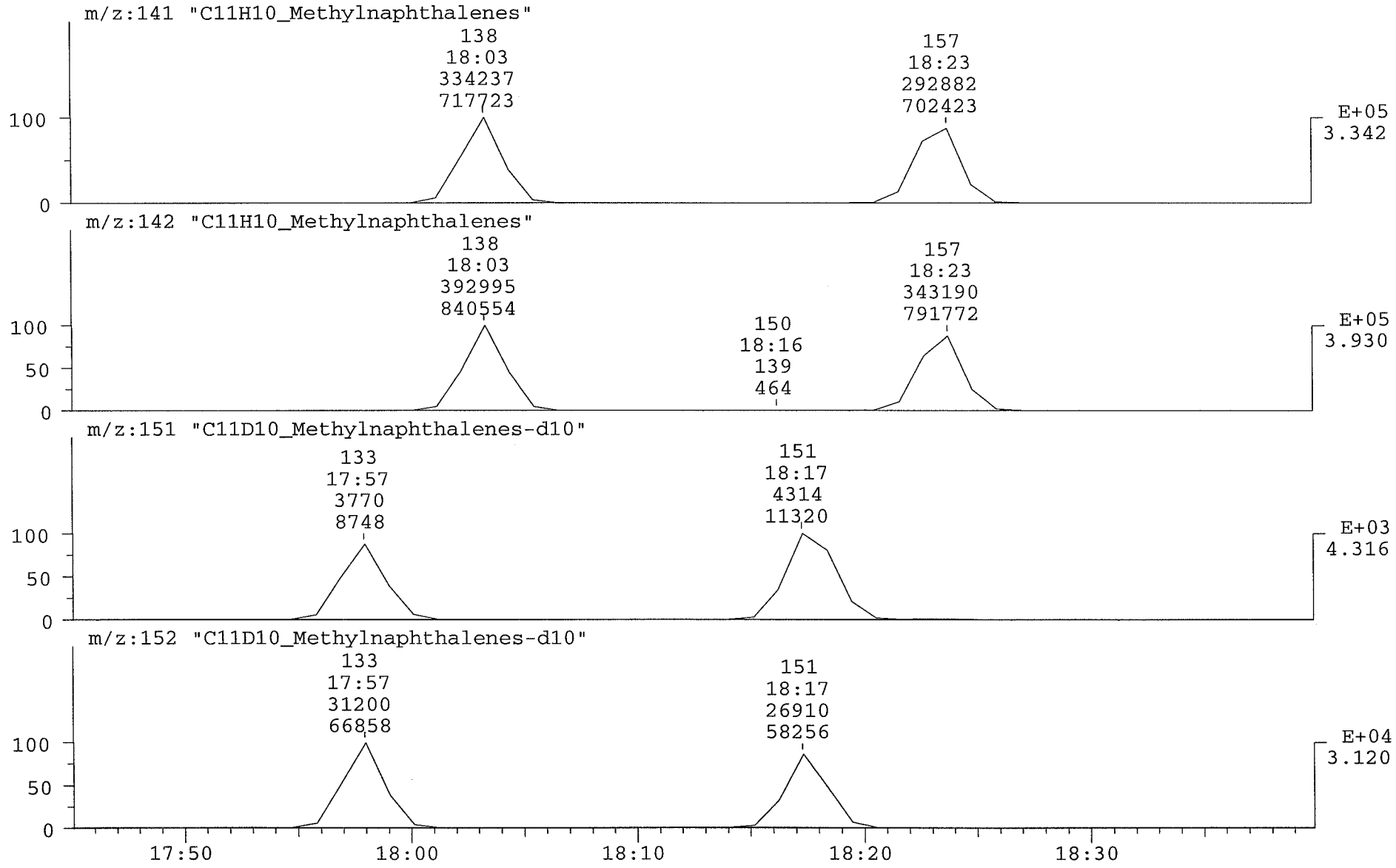


4340

CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

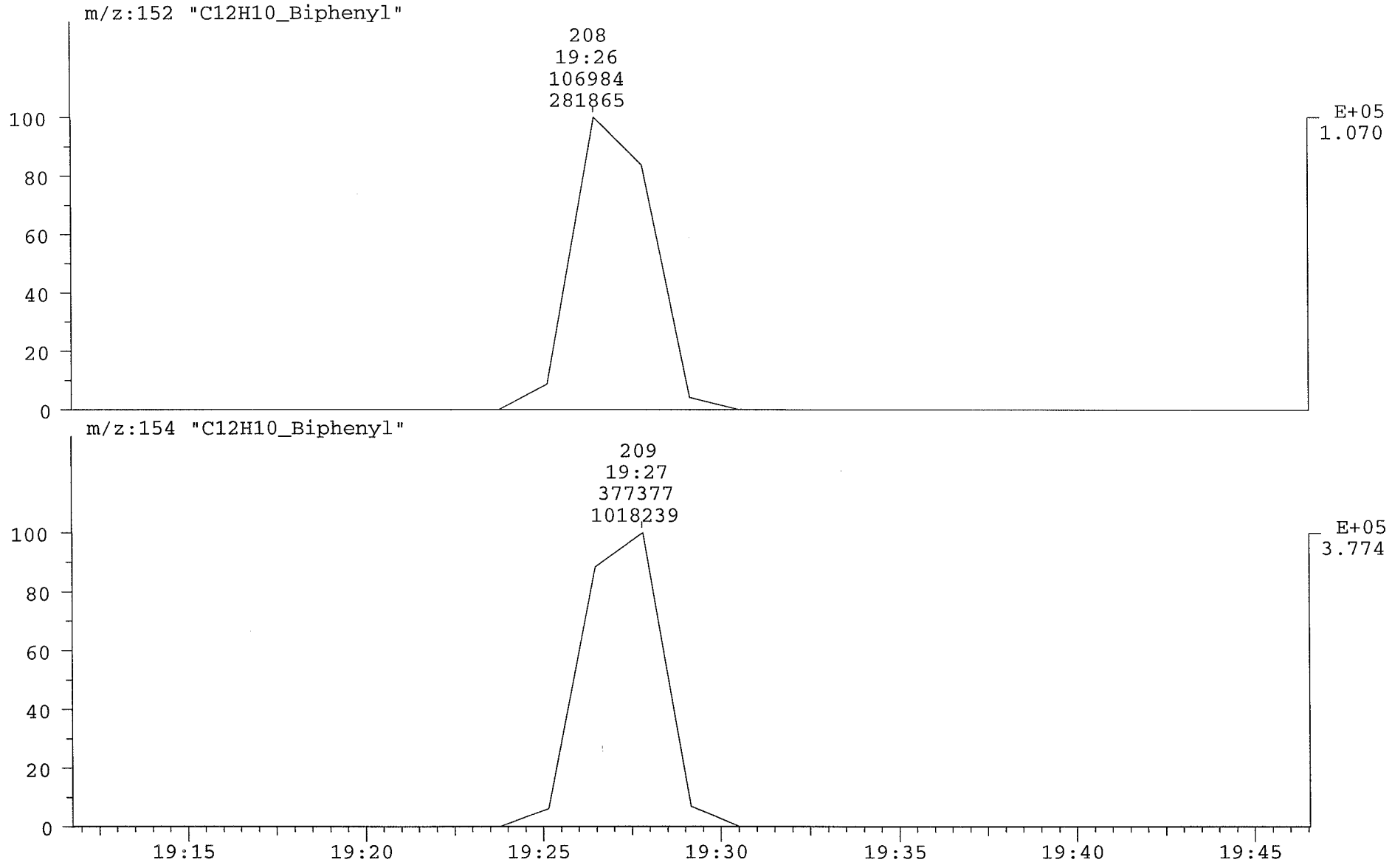


CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

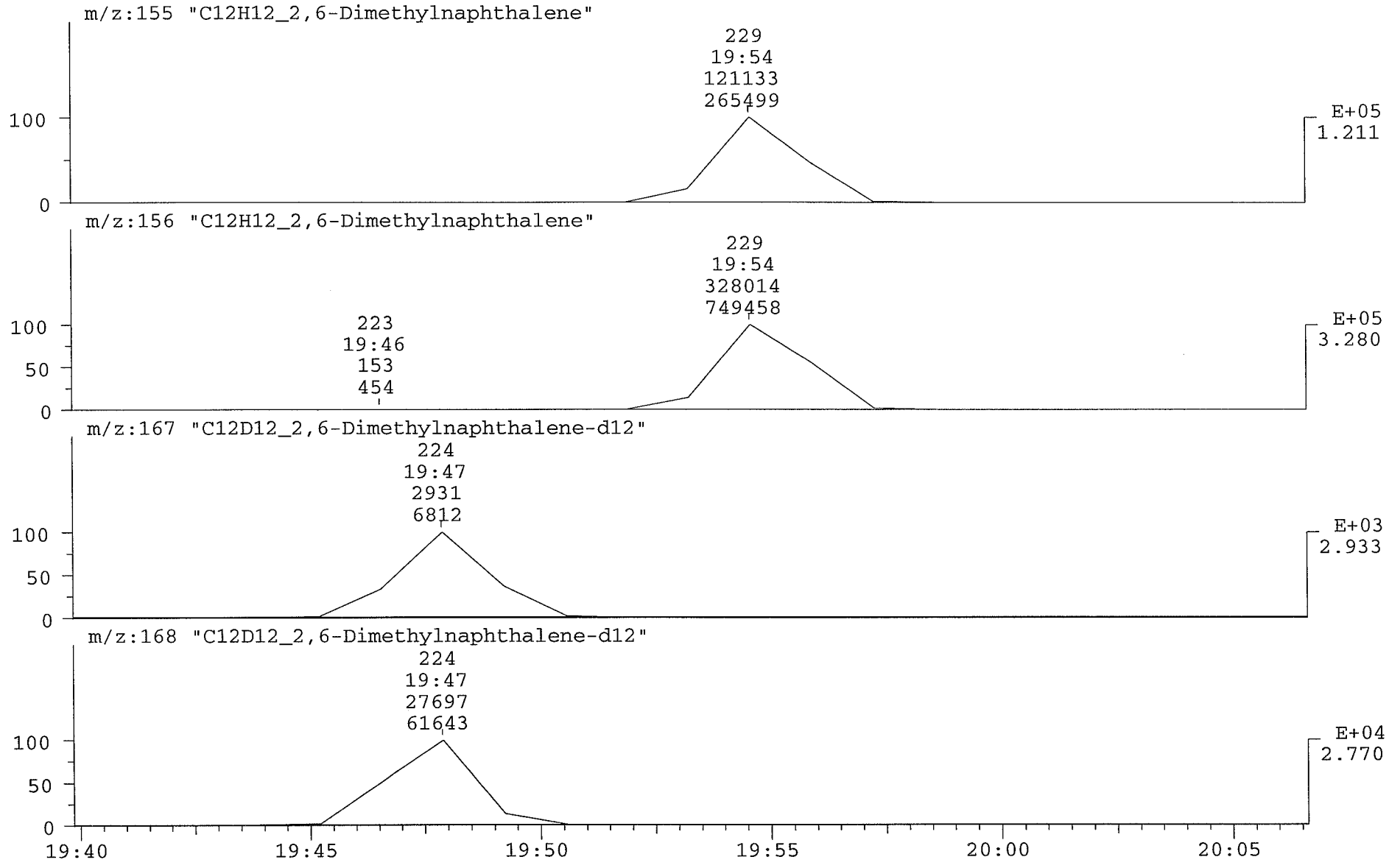


4342

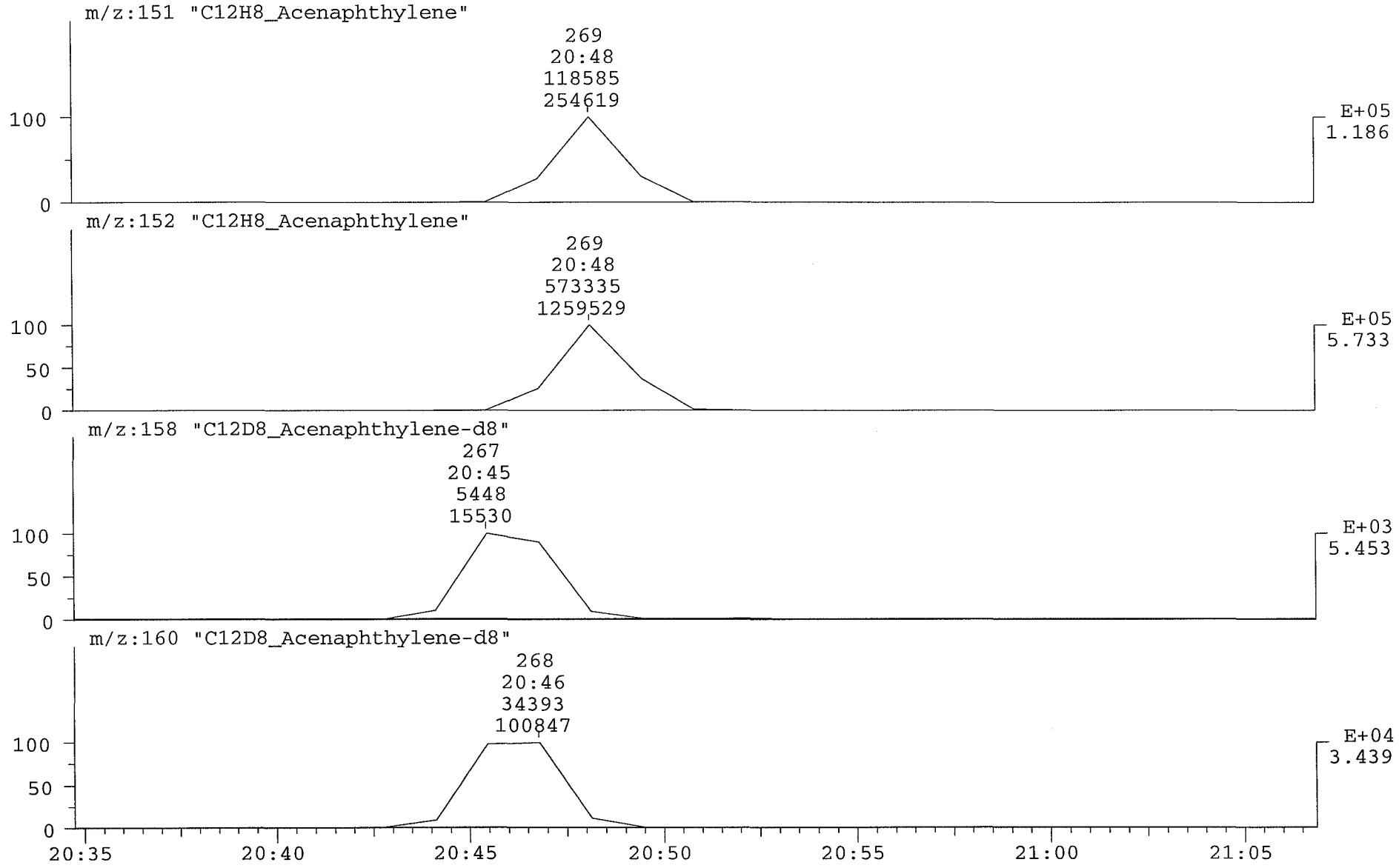
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



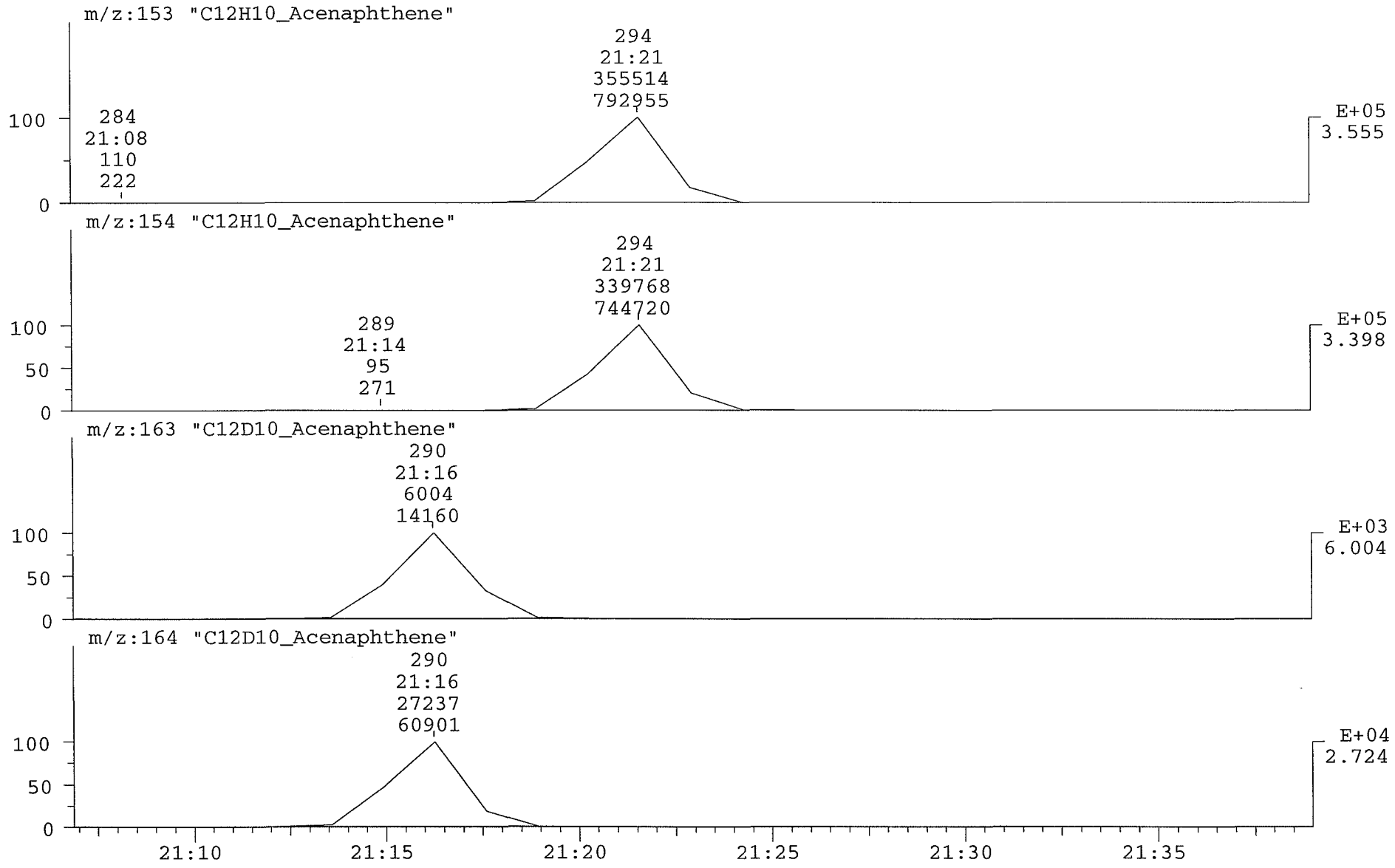
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



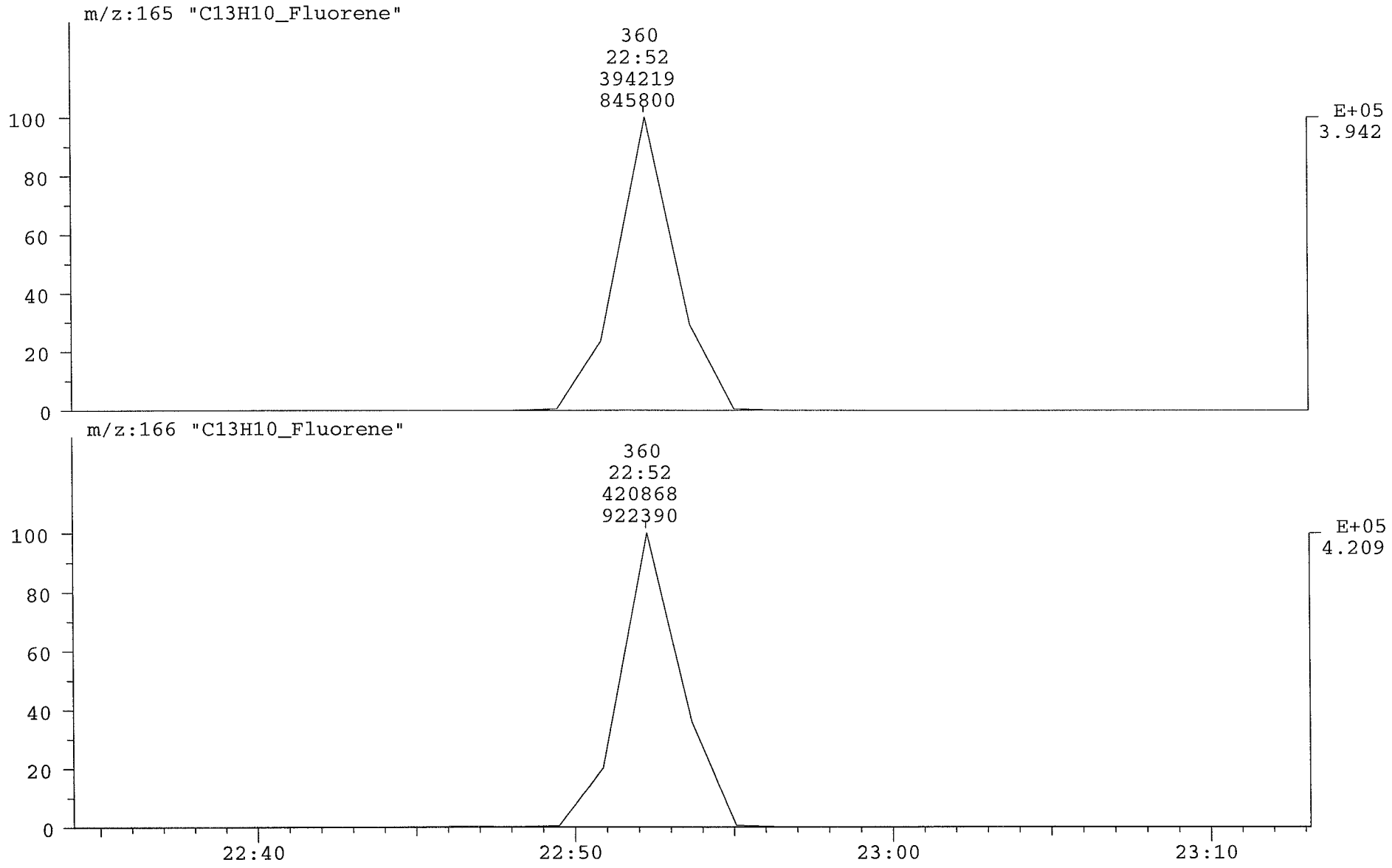
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



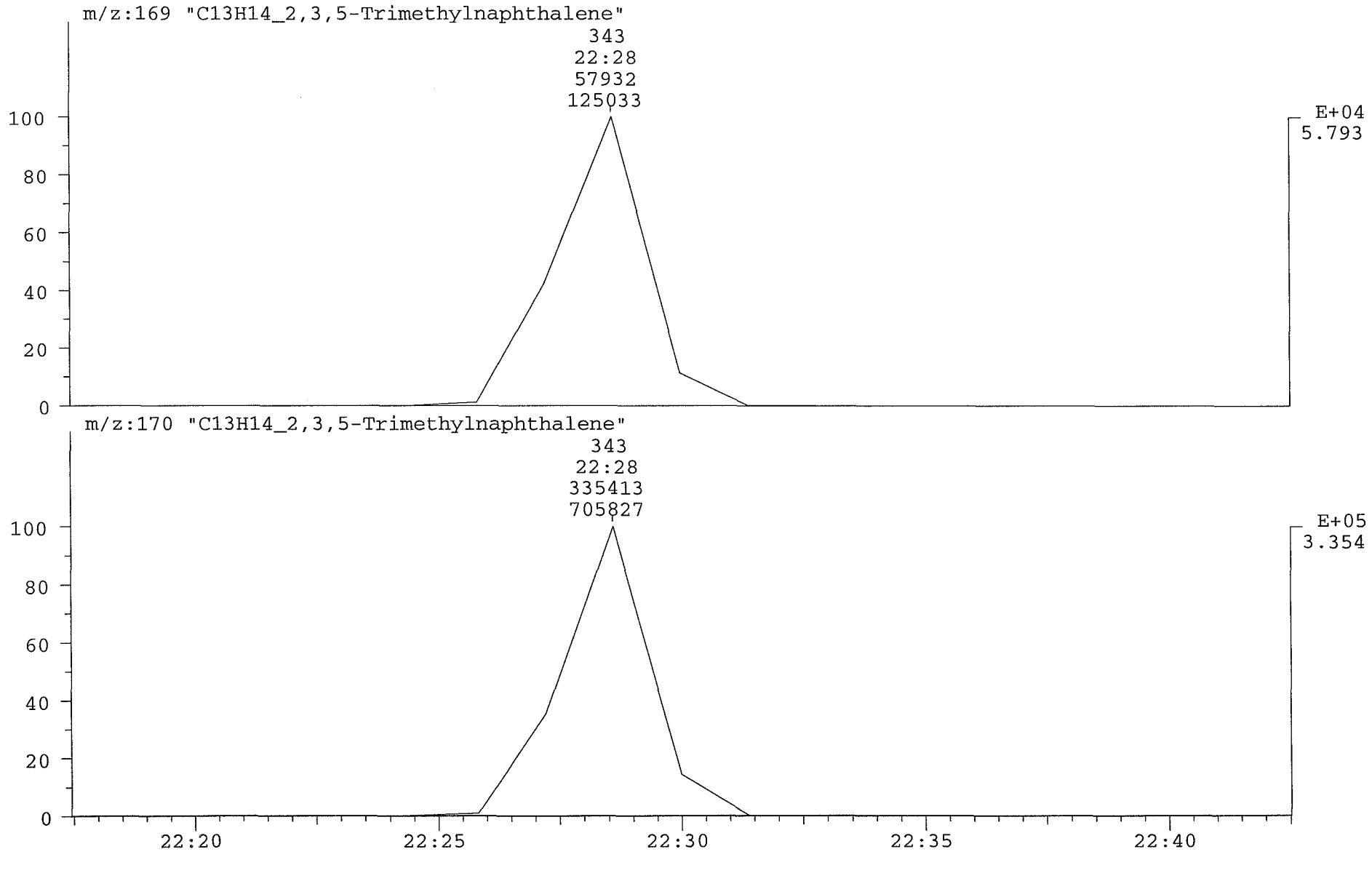
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



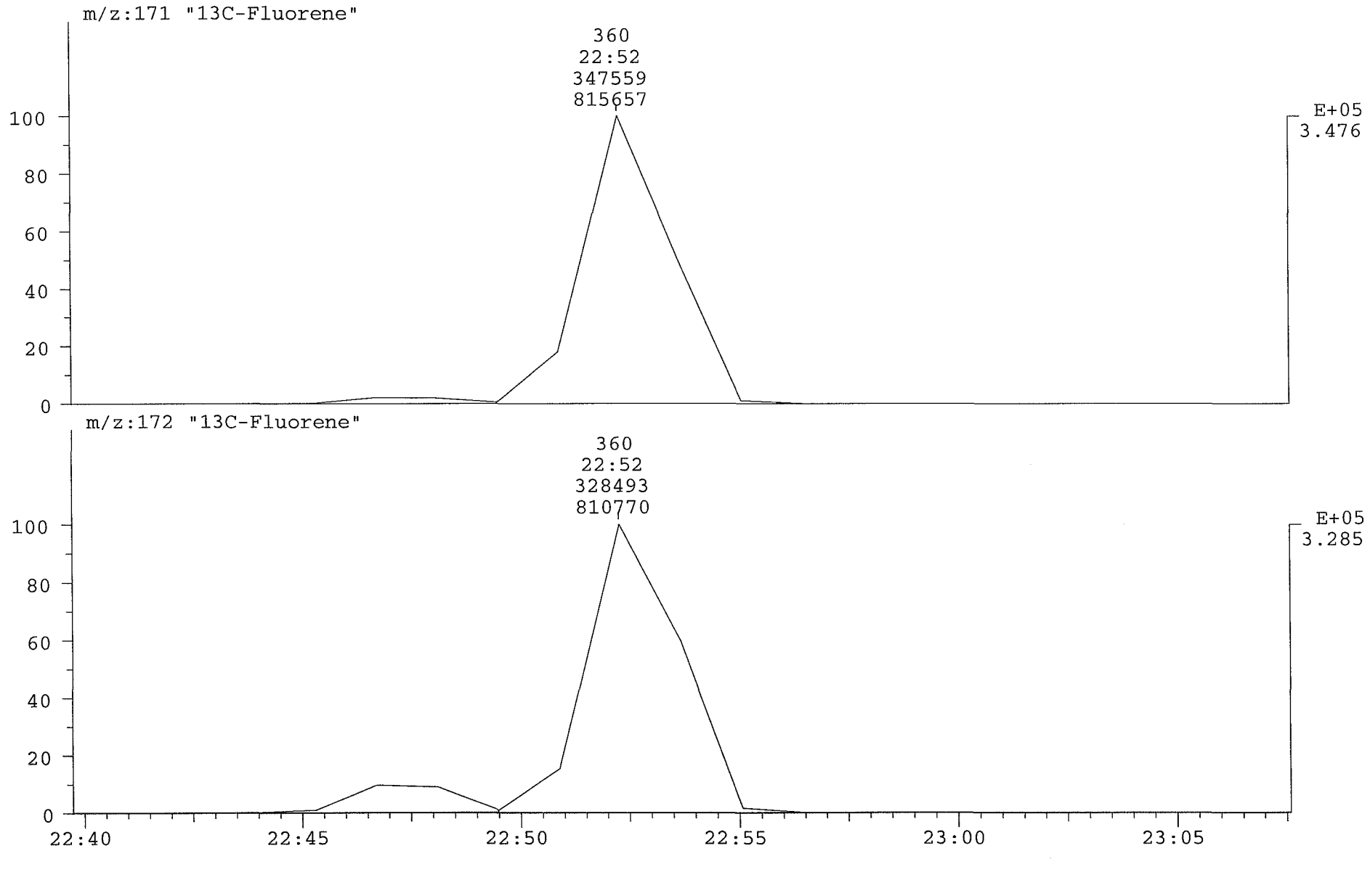
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



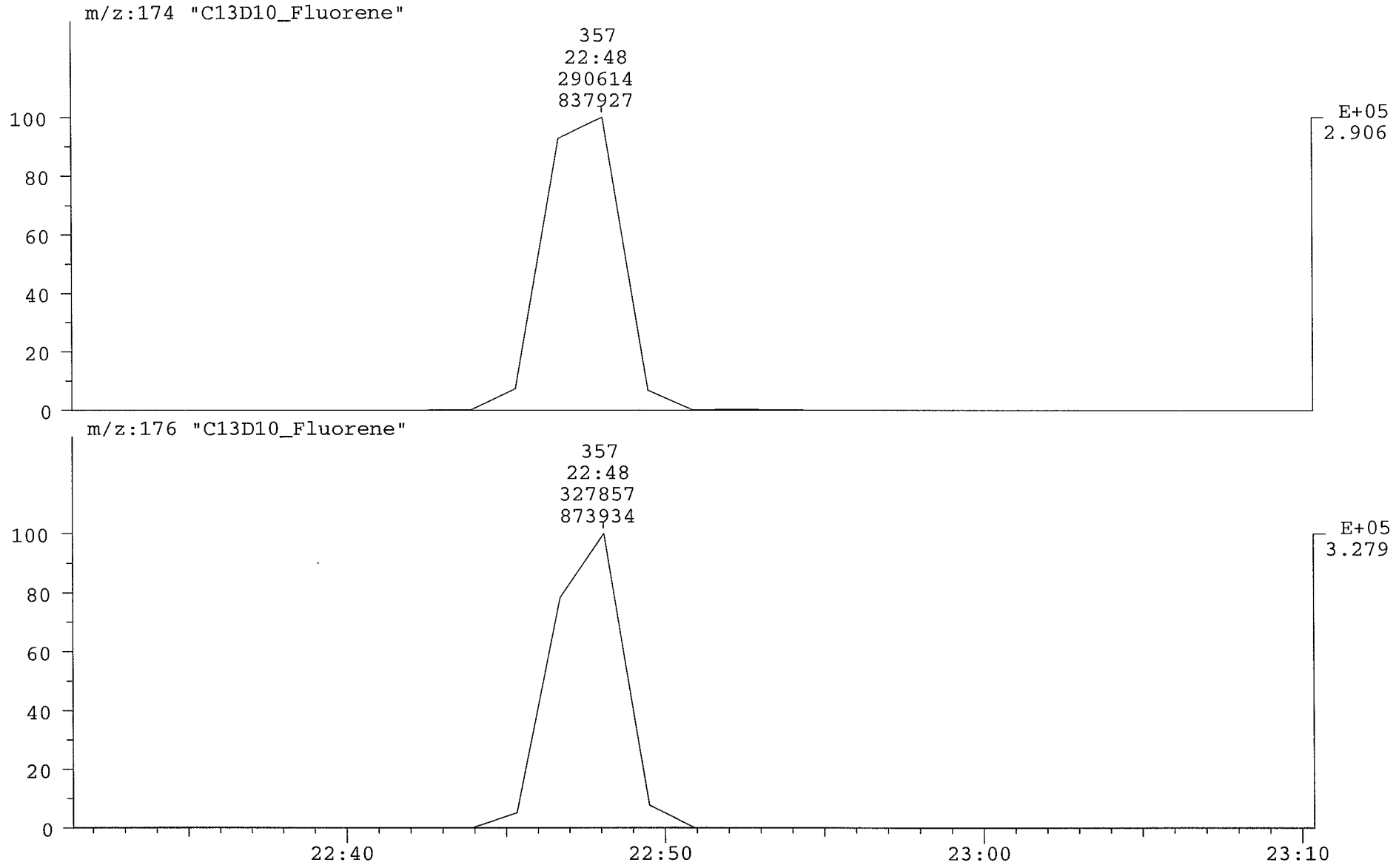
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



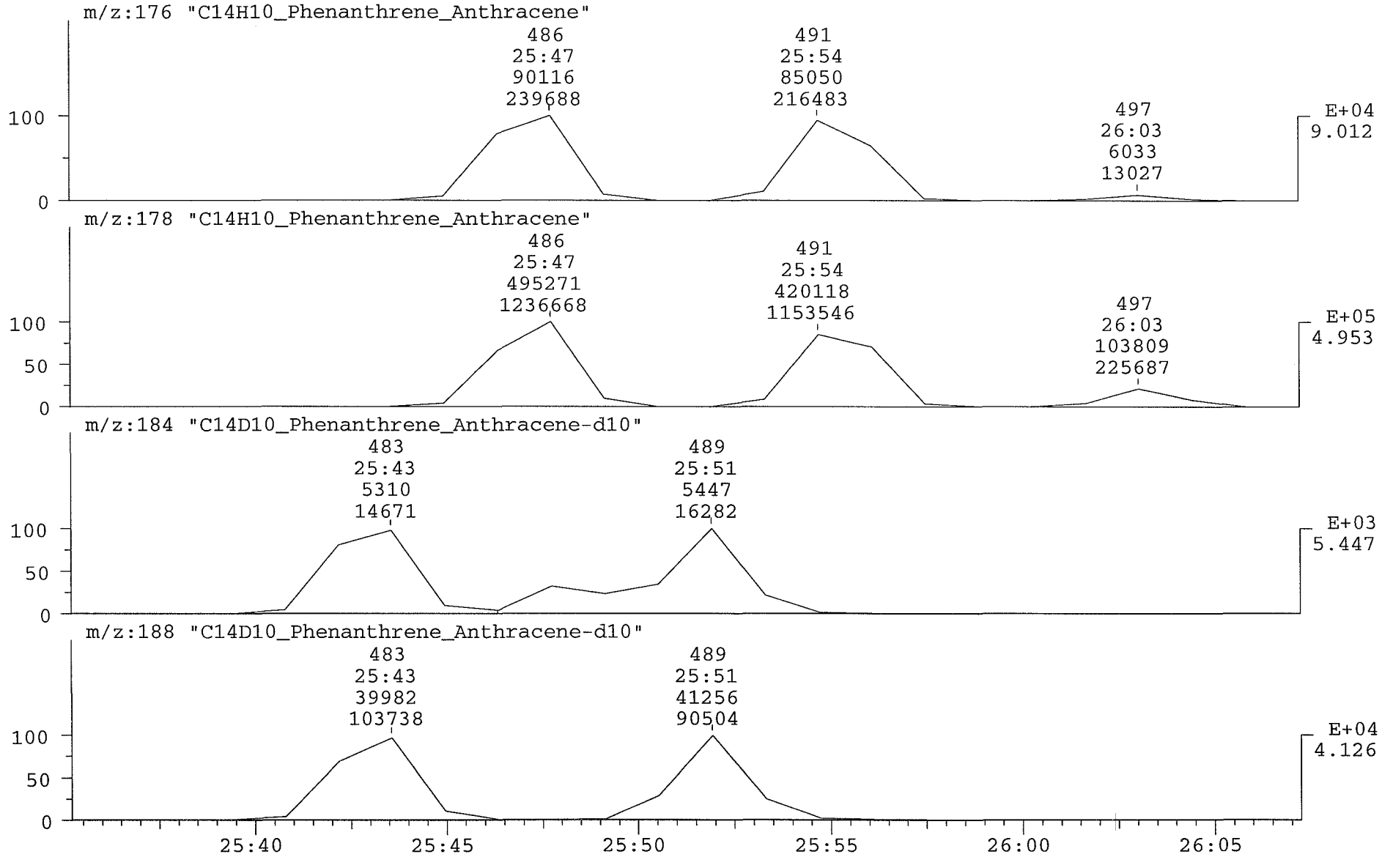
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



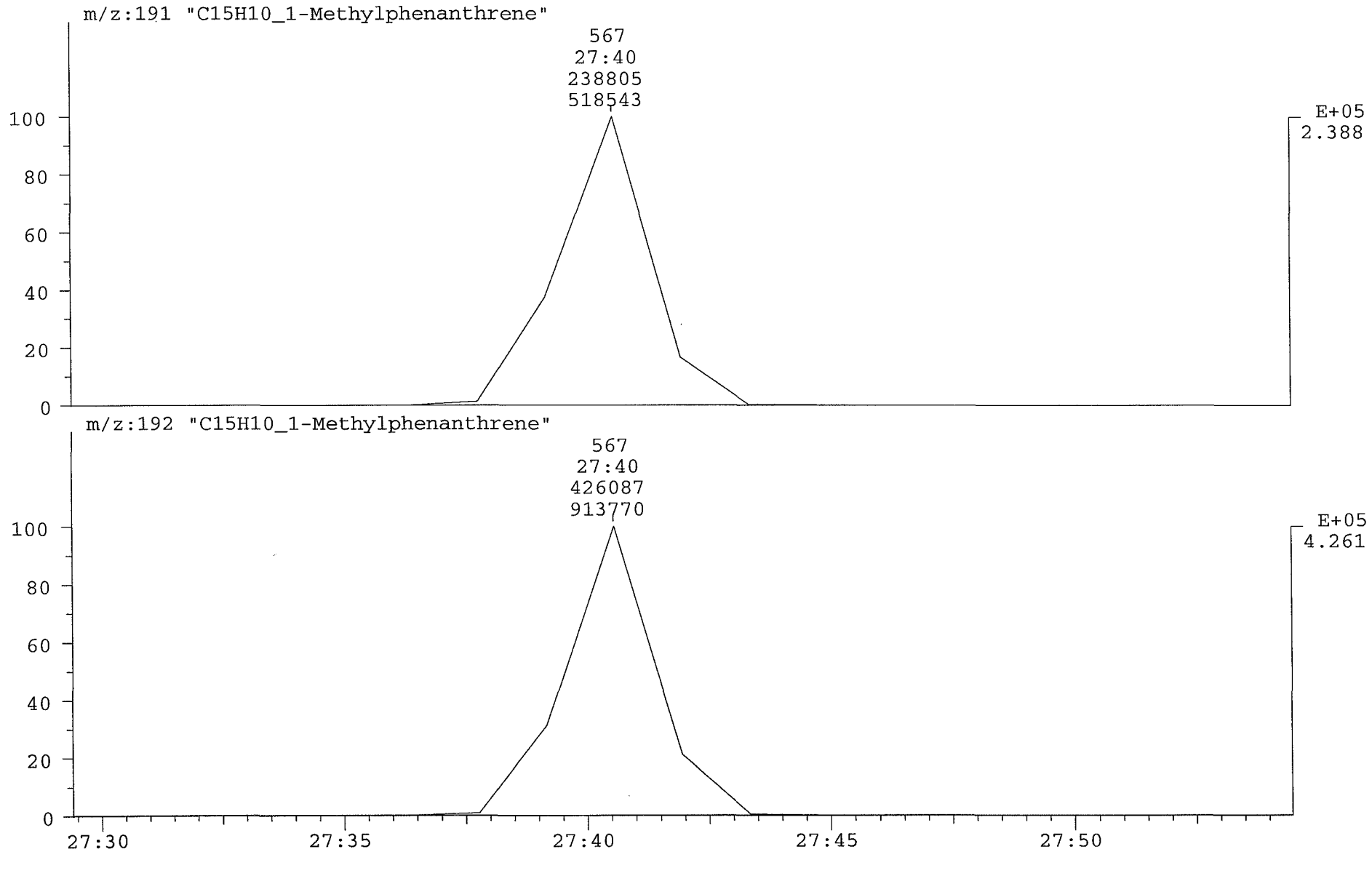
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 345 > 373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



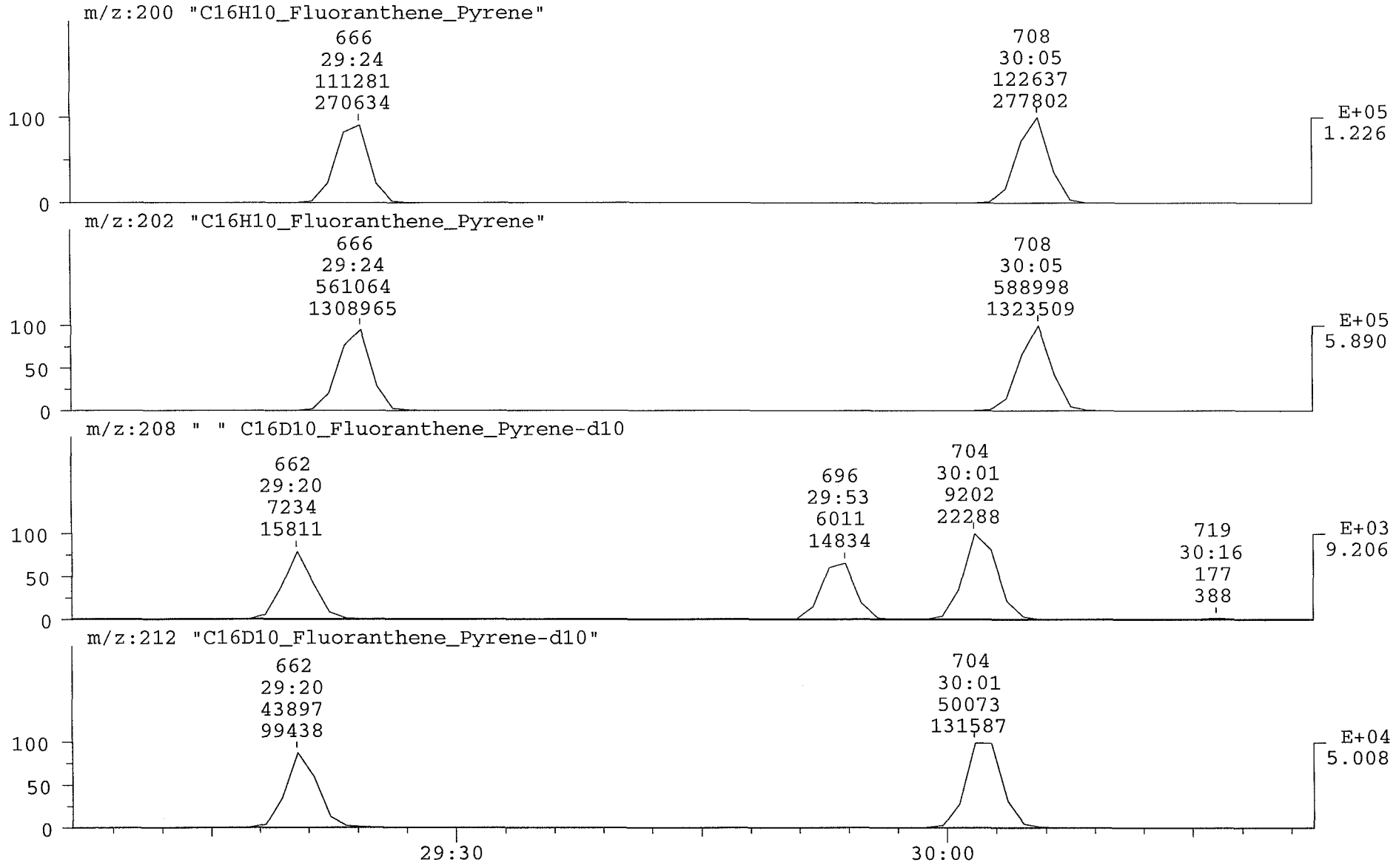
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



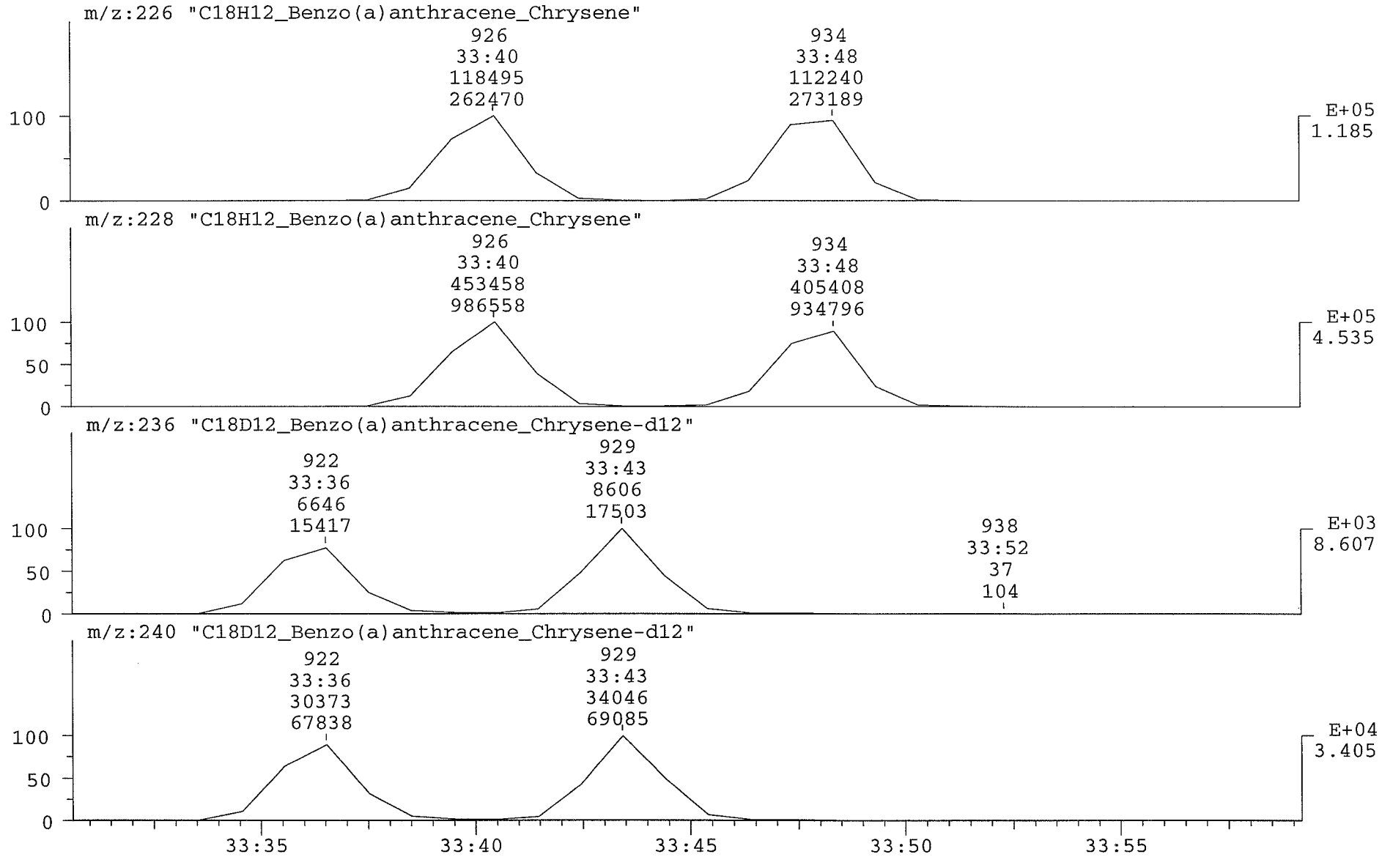
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



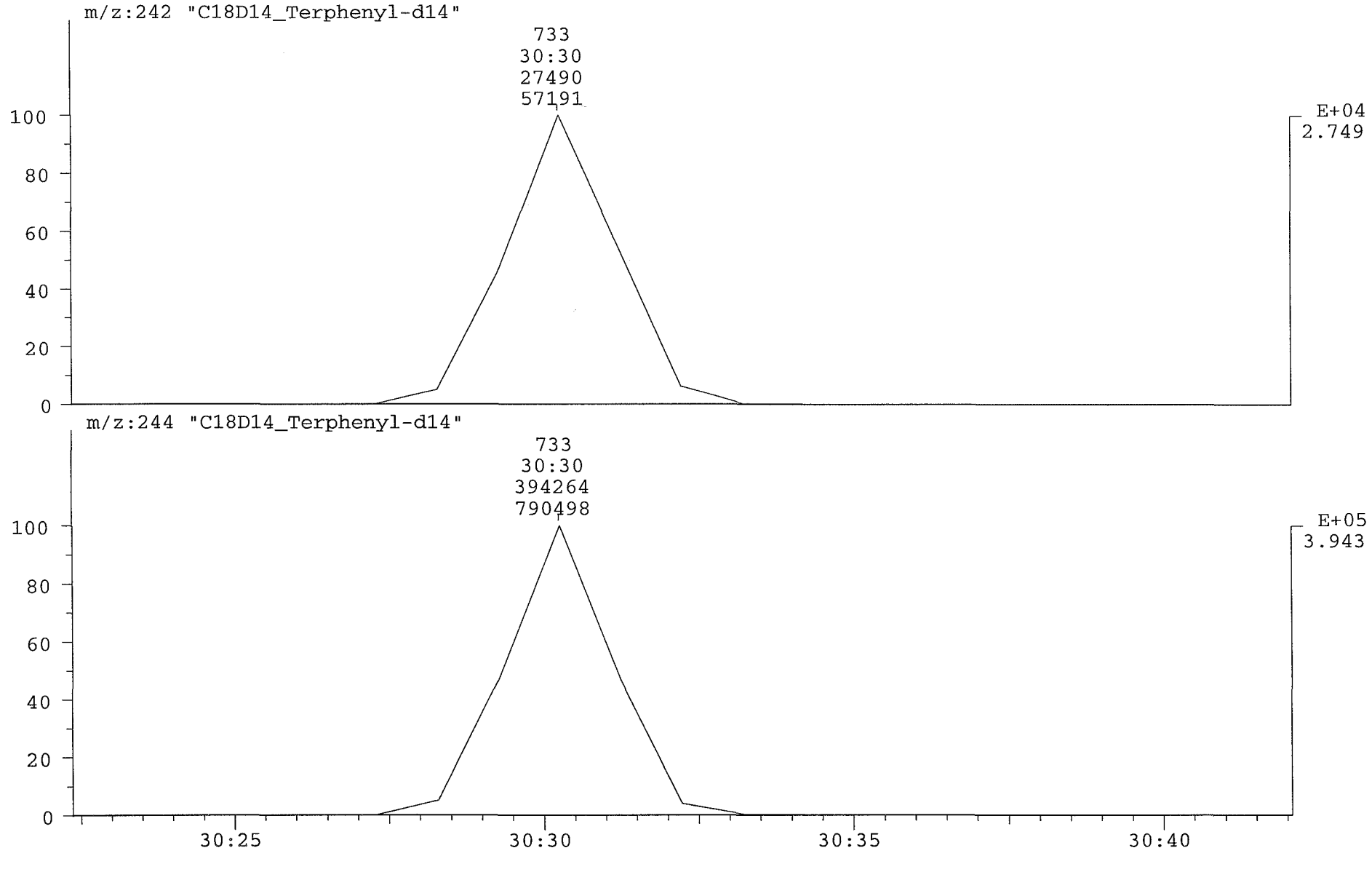
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



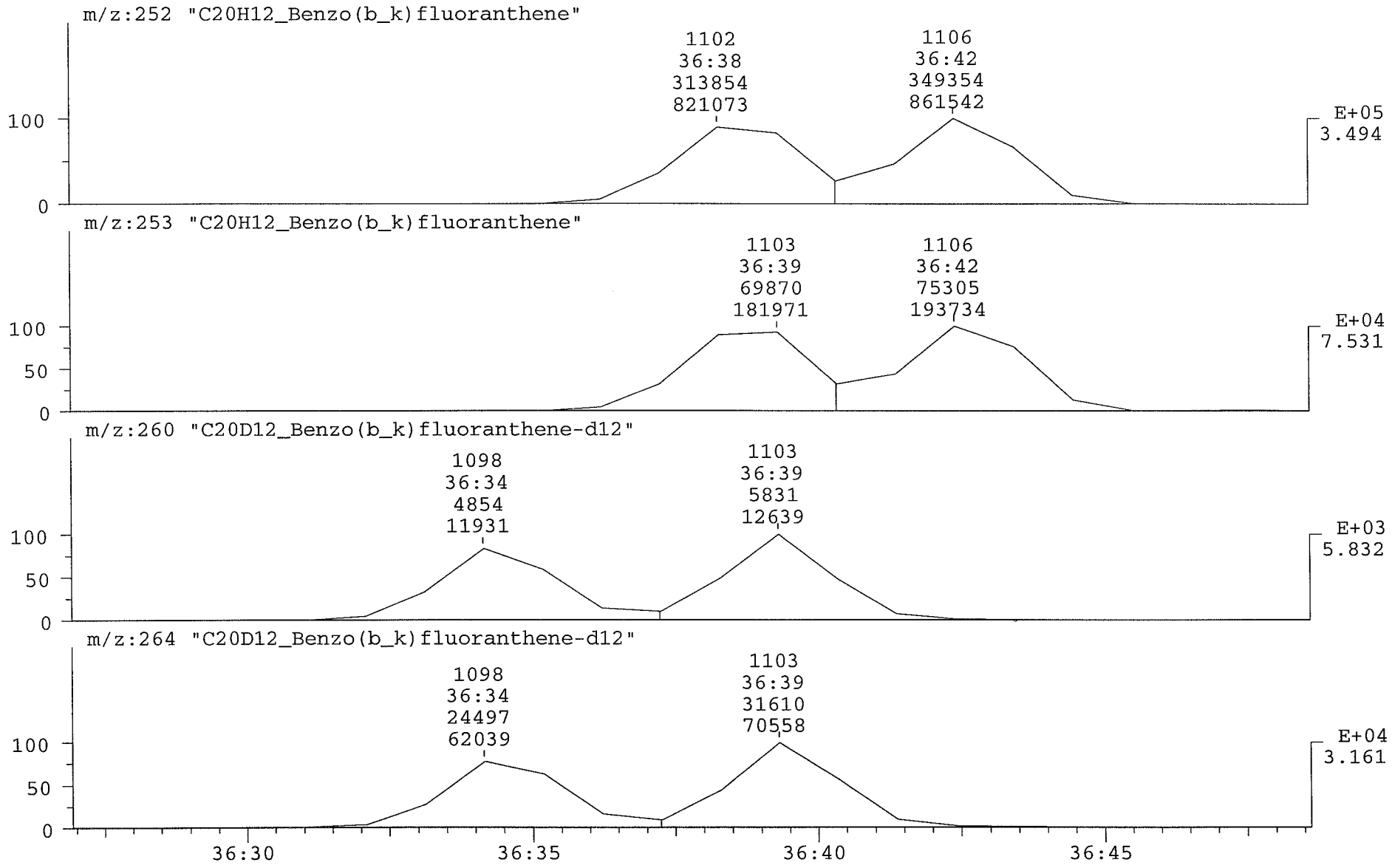
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



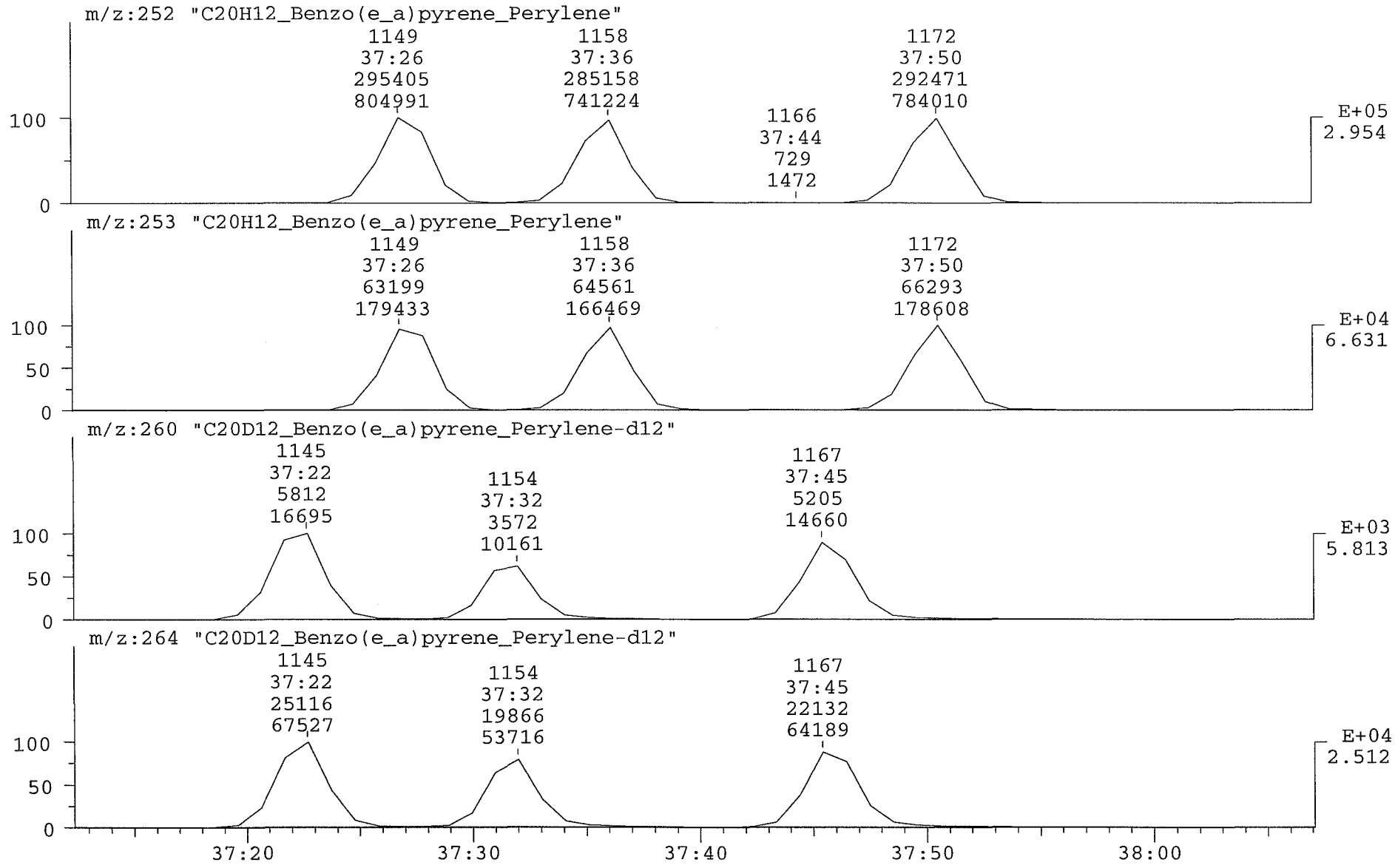
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CHRO:  y060426i7                              26-APR-06   Elapse:   40:56       1324
Samp:  WO=y060426i7 Meth=YA1 Dil=1                        Start :   24:38:00    1384
Comm:  Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   ICAL
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   725 > 745            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



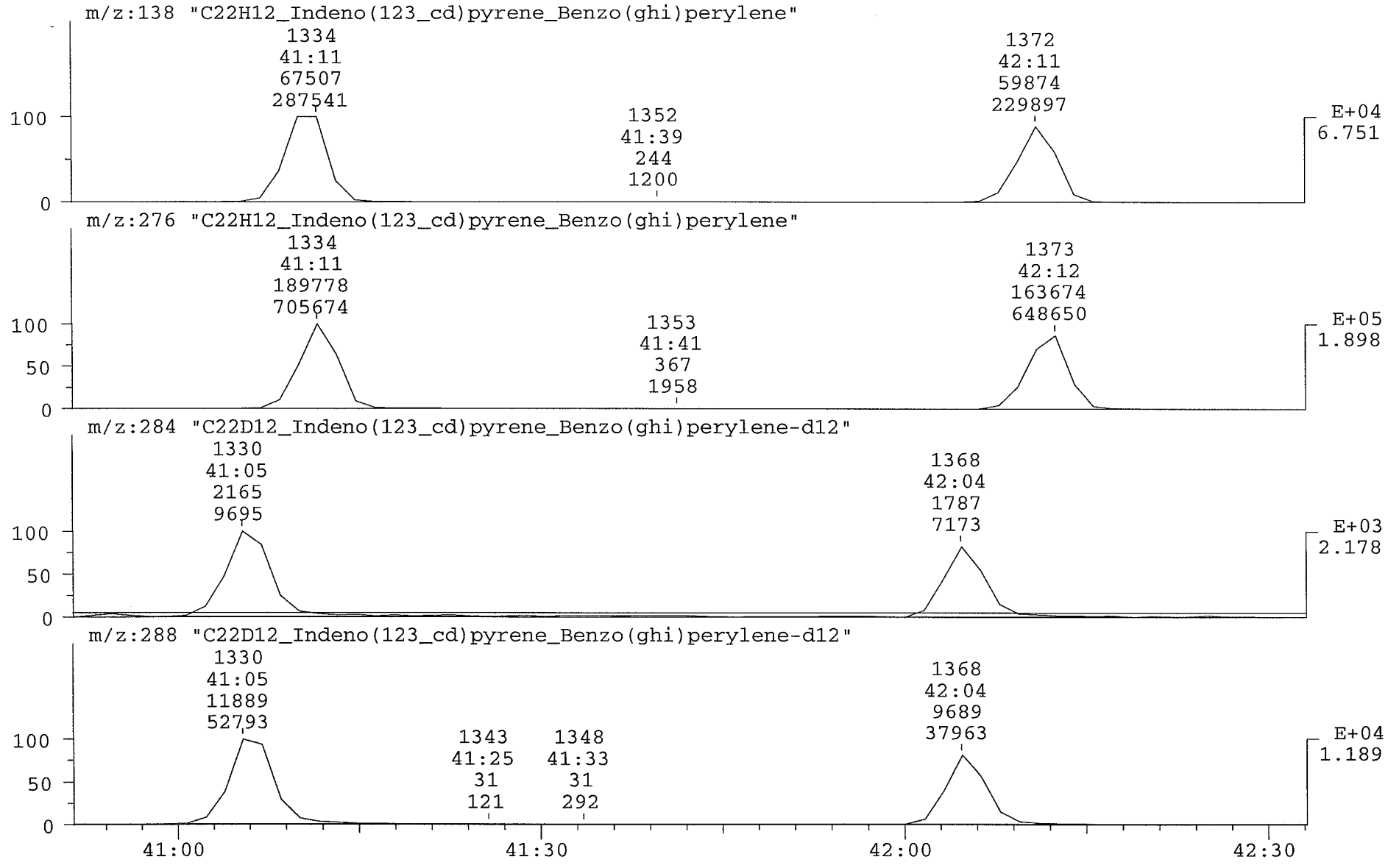
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



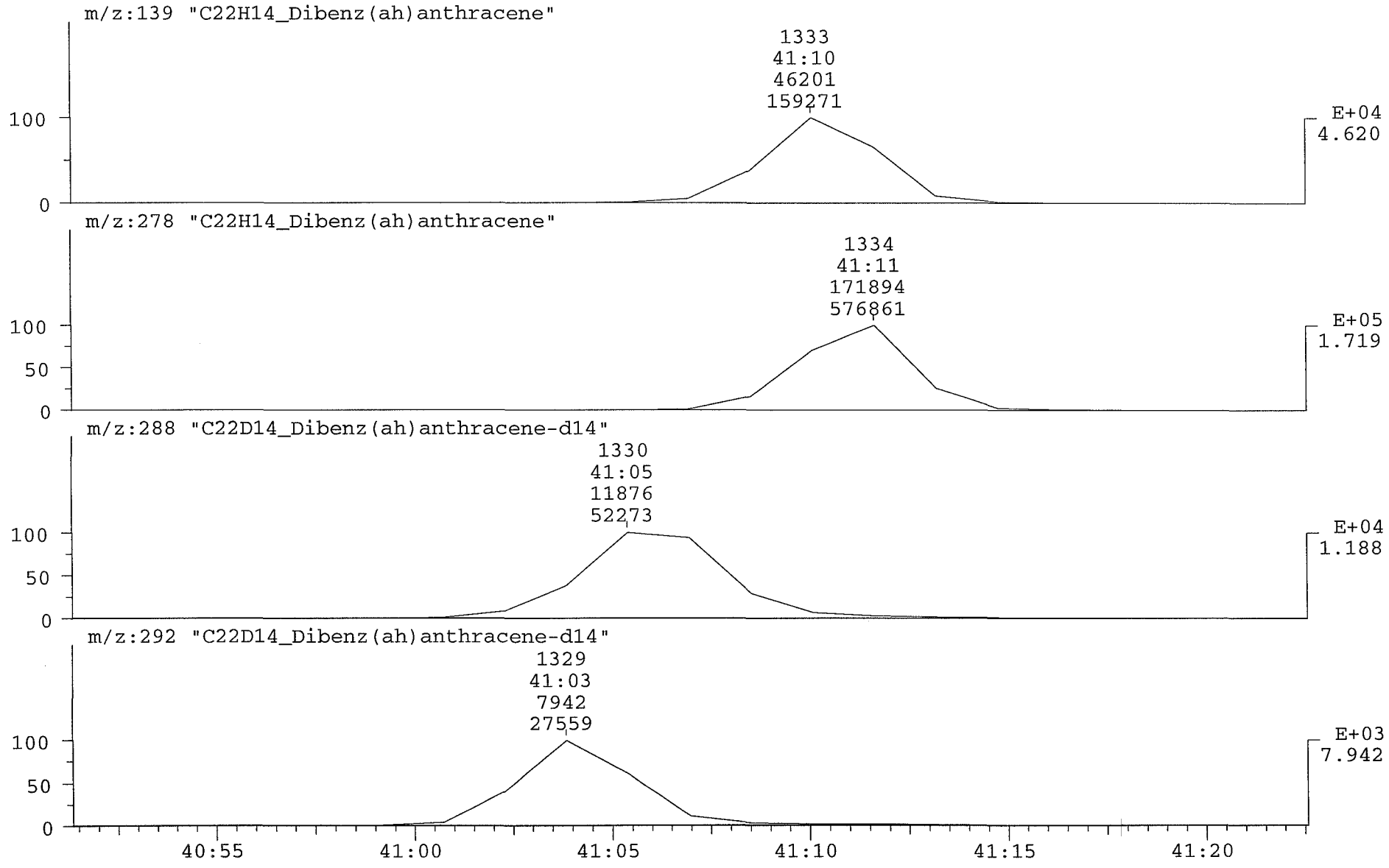
CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: y060426i7 26-APR-06 Elapse: 40:56 1324
Samp: WO=y060426i7 Meth=YA1 Dil=1 Start : 24:38:00 1384
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: Y60426I7.D
Date Acquired: 27 Apr 2006  12:38 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: Y060426I7
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  8
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Thu Apr 27 12:23:49 2006
d:\cdffiles\Y60426I7.CDF Translated at Thu Apr 27 12:23:49 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 06:50:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60426i7.dat
NetCDF File (input): /usr/users/hp/data/y60426i7.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 06:50:03 EDT 2006

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

ICV

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:08	Prep Batch		Lot No	
Data File	/20060428s1/icv04282.d	Prep Date		SDG No	
Analysis ID	90383	Prep Exp Date		Date Received	
Analysis Date	4/28/2006	Matrix	UNKNOWN	Date Sampled	
Analysis Time	19:42	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

CS4

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:56	41463	12093	1.725	500.0	450.122130	90.02	450.122130	0.234
Naphthalene	16:00	52146	15726	1.184	500.0	531.102787	106.22	531.102787	0.262
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.538	500.0			ND	0.000000
2-Methylnaphthalene	18:02	36079	14526	1.124	500.0	561.127796	112.23	561.127796	0.391
2-Methylnaphthalene-d10	17:56	28602	11367	1.147	500.0	466.972953	93.39	466.972953	0.470
1-Methylnaphthalene	18:22	33219	13348	1.308	500.0	511.516395	102.30	511.516395	0.422
1-Methylnaphthalene-d10	18:16	24825	9066	1.001	500.0	464.423217	92.88	464.423217	0.538
1-Chloronaphthalene				0.660	500.0			ND	0.000000
2-Chloronaphthalene				0.831	500.0			ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:26	44558	20220	1.482	500.0	525.594834	105.12	525.594834	0.890
2,6-Dimethylnaphthalene	19:54	31064	13489	1.184	500.0	503.193066	100.64	503.193066	2.10
2,6-Dimethylnaphthalene-d1	19:46	26070	10057	1.049	500.0	465.397757	93.08	465.397757	0.257
C2 Alkylnaphthalenes				1.226		503.193066		503.193066	1.69
Acenaphthylene	20:48	52378	19399	1.185	500.0	525.824933	105.16	525.824933	0.230
Acenaphthylene-d8	20:45	42030	18318	1.695	500.0	464.353187	92.87	464.353187	0.318
Acenaphthene-d10	21:15	26700	9283	1.000	500.0	500.000000	100.00	500.000000	0.404
Acenaphthene	21:20	32649	12528	0.719	500.0	540.196303	108.04	540.196303	1.14
2,3,5-Trimethylnaphthalene	22:27	30214	12365	1.087	500.0	533.098737	106.62	533.098737	0.572
C3 Alkylnaphthalenes				1.226		533.098737		533.098737	0.422
Fluorene d-10	22:46	36298	16754	0.788	500.0	521.977289	104.40	521.977289	0.165
Fluorene-C13	22:52	34557	11701	0.754	500.0	519.349617	103.87	519.349617	0.173
Fluorene	22:50	40406	15482	0.874	500.0	523.877270	104.78	523.877270	0.373
Phenanthrene-d10	25:42	44124	19192	0.827	500.0	486.179335	97.24	486.179335	0.188
Phenanthrene	25:46	53731	25044	1.176	500.0	517.741205	103.55	517.741205	0.166
Anthracene-d10	25:50	37787	12229	0.715	500.0	481.574521	96.31	481.574521	0.217
Anthracene	25:54	51592	21859	1.039	500.0	562.680604	112.54	562.680604	0.188
1-Methylphenanthrene	27:39	40707	16626	0.844	500.0	546.539782	109.31	546.539782	0.309
Fluoranthene-d10	29:20	41077	16286	0.784	500.0	477.430087	95.49	477.430087	0.198
Fluoranthene	29:23	54083	22803	1.274	500.0	516.728758	103.35	516.728758	0.241
Pyrene-d10	30:01	54871	24131	1.000	500.0	500.000000	100.00	500.000000	0.155
Pyrene	30:04	55949	24059	1.292	500.0	527.109813	105.42	527.109813	0.238
Terphenyl-d14	30:29	31340	15527	0.744	500.0	512.740170	102.55	512.740170	0.206
Benzo(a)Anthracene-d12	33:35	26313	12659	0.518	500.0	462.879274	92.58	462.879274	0.400
Benzo(a)anthracene	33:39	36945	16688	1.352	500.0	519.252526	103.85	519.252526	0.219
Chrysene-d12	33:42	26249	12065	0.526	500.0	454.730566	90.95	454.730566	0.394
Chrysene	33:46	36016	14541	1.297	500.0	528.947712	105.79	528.947712	0.240
Benzo(b)Fluoranthene-d12	36:34	24550	8901	0.905	500.0	502.315973	100.46	502.315973	0.664
Benzo(k)Fluoranthene-d12	36:38	25014	10451	1.060	500.0	436.969728	87.39	436.969728	0.567
Benzo(b)fluoranthene	36:37	32656	13882	1.443	500.0	460.908974	92.18	460.908974	0.876
Benzo(k)fluoranthene	36:41	30168	12000	1.027	500.0	587.168751	117.43	587.168751	1.05
Benzo(e)pyrene-d12	37:21	27002	10407	1.000	500.0	500.000000	100.00	500.000000	0.601
Benzo(e)pyrene	37:25	32216	12724	1.479	500.0	522.733029	104.55	522.733029	1.06
Benzo(a)Pyrene-d12	37:31	20835	7201	0.784	500.0	492.097902	98.42	492.097902	0.766
Benzo(a)pyrene	37:34	27089	10332	1.235	500.0	526.383800	105.28	526.383800	1.27
Perylene-d12	37:44	24708	8789	0.952	500.0	480.589984	96.12	480.589984	0.631
Perylene	37:48	28065	10202	1.104	500.0	514.432484	102.89	514.432484	1.16
3-Methylcholanthrene				0.533	500.0			ND	4.00

VMC 4/28/06 4/28/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:08	**Prep Batch**		**Lot No**	
Data File	/20060428s1/icv04282.d	**Prep Date**		**SDG No**	
Analysis ID	90383	**Prep Exp Date**		**Date Received**	
Analysis Date	4/28/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	19:42	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:02	11052	3241	0.394	500.0	519.420069	103.88	519.420069	1.22
Indeno(1,2,3-cd)pyrene-d12	41:05	21347	5033	0.766	500.0	516.038557	103.21	516.038557	0.470
Indeno(1,2,3-cd)pyrene	41:10	27782	7078	1.205	500.0	540.019714	108.00	540.019714	1.03
Dibenz(a,h)anthracene	41:08	21792	6196	1.875	500.0	525.805284	105.16	525.805284	1.23
Benzo(ghi)Perylene-d12	42:03	15561	4199	0.559	500.0	515.465693	103.09	515.465693	0.645
Benzo(ghi)perylene	42:09	25503	6732	1.581	500.0	518.312762	103.66	518.312762	0.941
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene					500.0			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:08	Prep Batch		Lot No	
Data File	/20060428s1/icv04282.d	Prep Date		SDG No	
Analysis ID	90383	Prep Exp Date		Date Received	
Analysis Date	04/28/06 19:42	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	8		3				
	Naphthalene	16:00	00:00	0	52146		15726			ABV	
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	8		3				
	Naphthalene-d8	15:56	00:00	0	41463		12093			ABV	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	10		4				
	2-Methylnaphthalene	18:02	00:00	0	36079		14526			ABV	
	1-Methylnaphthalene	18:22	00:00	0	33219		13348			AVB	M
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	10		4				
	2-Methylnaphthalene-d10	17:56	00:00	0	28602		11367			ABV	
	1-Methylnaphthalene-d10	18:16	00:00	0	24825		9066			AVB	M
	Acenaphthylene	20:48	00:00	0	52378		19399			ABB	
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	30		12				
	Biphenyl	19:26	00:00	0	44558		20220			ABB	
	Acenaphthene	21:20	00:00	0	32649		12528			ABB	
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	50		20				
	2,6-Dimethylnaphthalene	19:54	00:00	0	31064		13489			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:45	00:00	0	42030		18318			ABV	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	10		4				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	8		3				
	Acenaphthene-d10	21:15	00:00	0	26700		9283			ABV	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	13		5				
	Fluorene	22:50	00:00	0	40406		15482			AVB	
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	5		2				
	2,6-Dimethylnaphthalene	19:46	00:00	0	26070		10057			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	5		2				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	13		5				
	2,3,5-Trimethylnaphthal	22:27	00:00	0	30214		12365			ABB	W
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	5		2				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:08	Prep Batch		Lot No	
Data File	/20060428s1/icv04282.d	Prep Date		SDG No	
Analysis ID	90383	Prep Exp Date		Date Received	
Analysis Date	04/28/06 19:42	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					**172.0000**		**172.0000**				
	Fluorene-C13	22:52	00:00	0	34557		11701			AVB	
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	5		2				
	Fluorene d-10	22:46	00:00	0	36298		16754			ABB	
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	8		3				
	Phenanthrene	25:46	00:00	0	53731		25044			ABV	
	Anthracene	25:54	00:00	0	51592		21859			AVB	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	8		3				
	Phenanthrene-d10	25:42	00:00	0	44124		19192			ABV	
	Anthracene-d10	25:50	00:00	0	37787		12229			AVB	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	10		4				
	1-Methylphenanthrene	27:39	00:00	0	40707		16626			ABB	
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	10		4				
	Fluoranthene	29:23	00:00	0	54083		22803			ABV	
	Pyrene	30:04	00:00	0	55949		24059			ABV	
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	8		3				
	Fluoranthene-d10	29:20	00:00	0	41077		16286			ABV	
	Pyrene-d10	30:01	00:00	0	54871		24131			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	8		3				
	Benzo(a)anthracene	33:39	00:00	0	36945		16688			ABV	
	Chrysene	33:46	00:00	0	36016		14541			AVB	
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	10		4				
	Benzo(a)Anthracene-d12	33:35	00:00	0	26313		12659			ABV	
	Chrysene-d12	33:42	00:00	0	26249		12065			AVB	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	5		2				
	Terphenyl-d14	30:29	00:00	0	31340		15527			ABB	
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	23		9				
	Benzo(b)fluoranthene	36:37	00:00	0	32656		13882			ABV	
	Benzo(k)fluoranthene	36:41	00:00	0	30168		12000			AVB	
	Benzo(e)pyrene	37:25	00:00	0	32216		12724			ABV	
	Benzo(a)pyrene	37:34	00:00	0	27089		10332			AVV	
	Perylene	37:48	00:00	0	28065		10202			AVB	
264					**264.0000**		**264.0000**				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:08	**Prep Batch**		**Lot No**	
Data File	/20060428s1/icv04282.d	**Prep Date**		**SDG No**	
Analysis ID	90383	**Prep Exp Date**		**Date Received**	
Analysis Date	04/28/06 19:42	**Matrix**	UNKNOWN	**Date Sampled**	
Anal Exp Date		**Initial Wt/Vol**		**Lims Test Code**	
Instrument	H2A	**Extract Vol**		**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

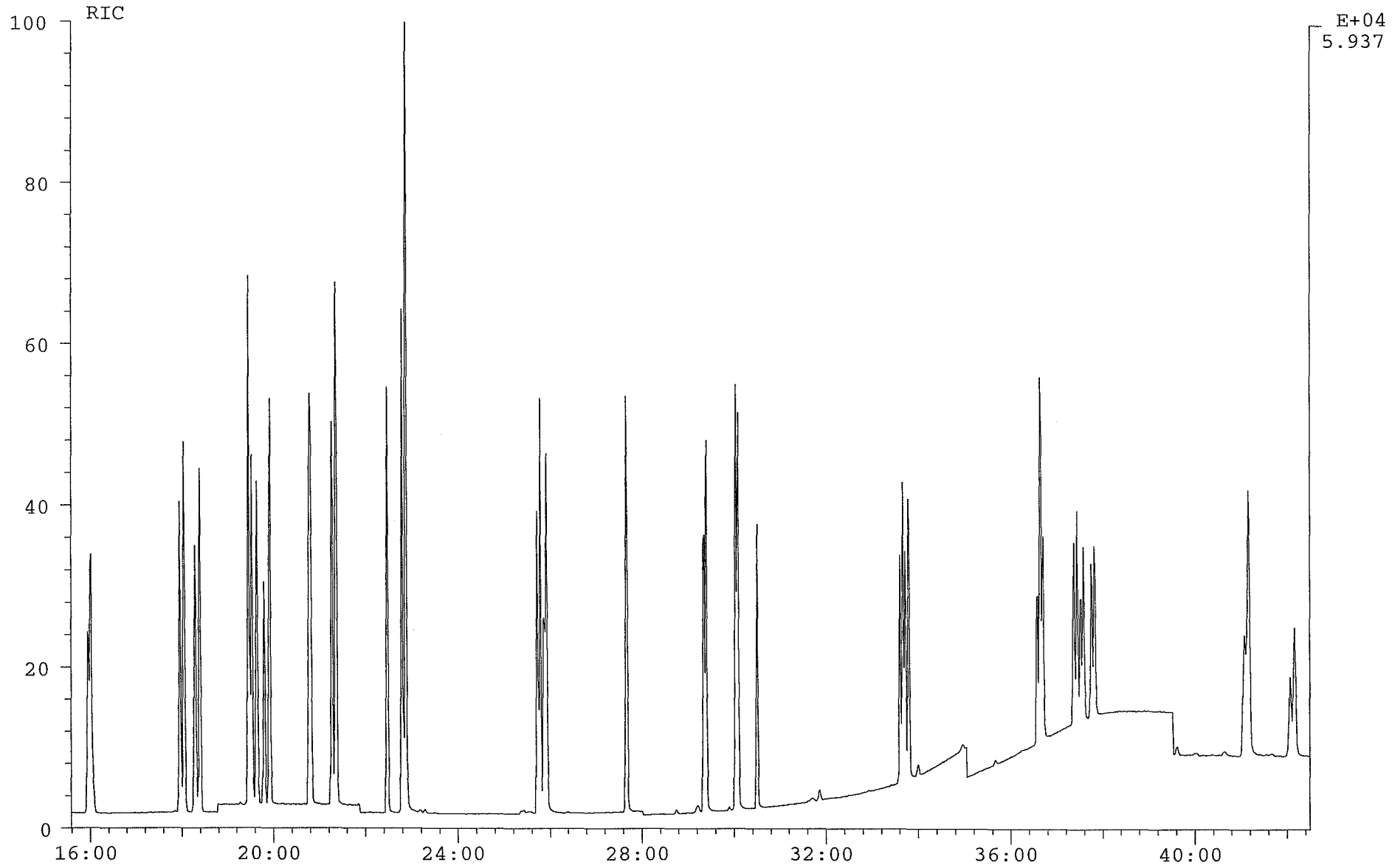
View Small Peaks? False **View deleted peaks?** False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	13		5				
	Benzo(b)Fluoranthene-d1	36:34	00:00	0	24550		8901			ABV	
	Benzo(k)Fluoranthene-d1	36:38	00:00	0	25014		10451			AVB	
	Benzo(e)pyrene-d12	37:21	00:00	0	27002		10407			ABV	
	Benzo(a)Pyrene-d12	37:31	00:00	0	20835		7201			AVV	
	Perylene-d12	37:44	00:00	0	24708		8789			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	38		15				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene	41:10	00:00	0	27782		7078			ABV	
	Benzo(ghi)perylene	42:09	00:00	0	25503		6732			ABB	
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	15		6				
	Dibenz(a,h)anthracene	41:08	00:00	0	21792		6196			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	8		3				
	Indeno(1,2,3-cd)pyrene-	41:05	00:00	0	21347		5033			ABV	
	Benzo(ghi)Perylene-d12	42:03	00:00	0	15561		4199			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	10		4				
	Dibenz(ah)Anthracene-d1	41:02	00:00	0	11052		3241			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	8		3				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	5		2				

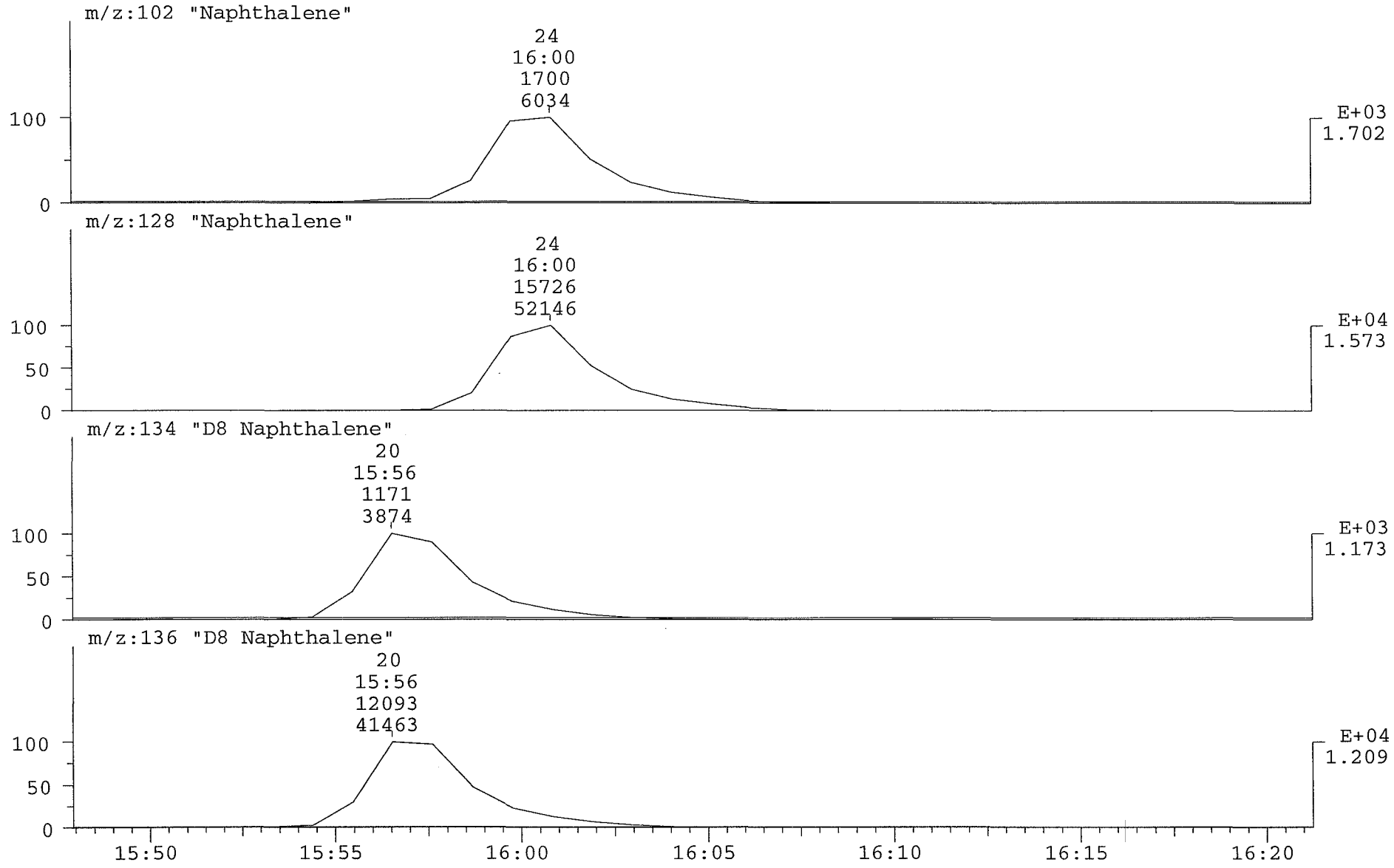
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Init/Calc: JMN 4/28/06.
QC VMK 4/28/06

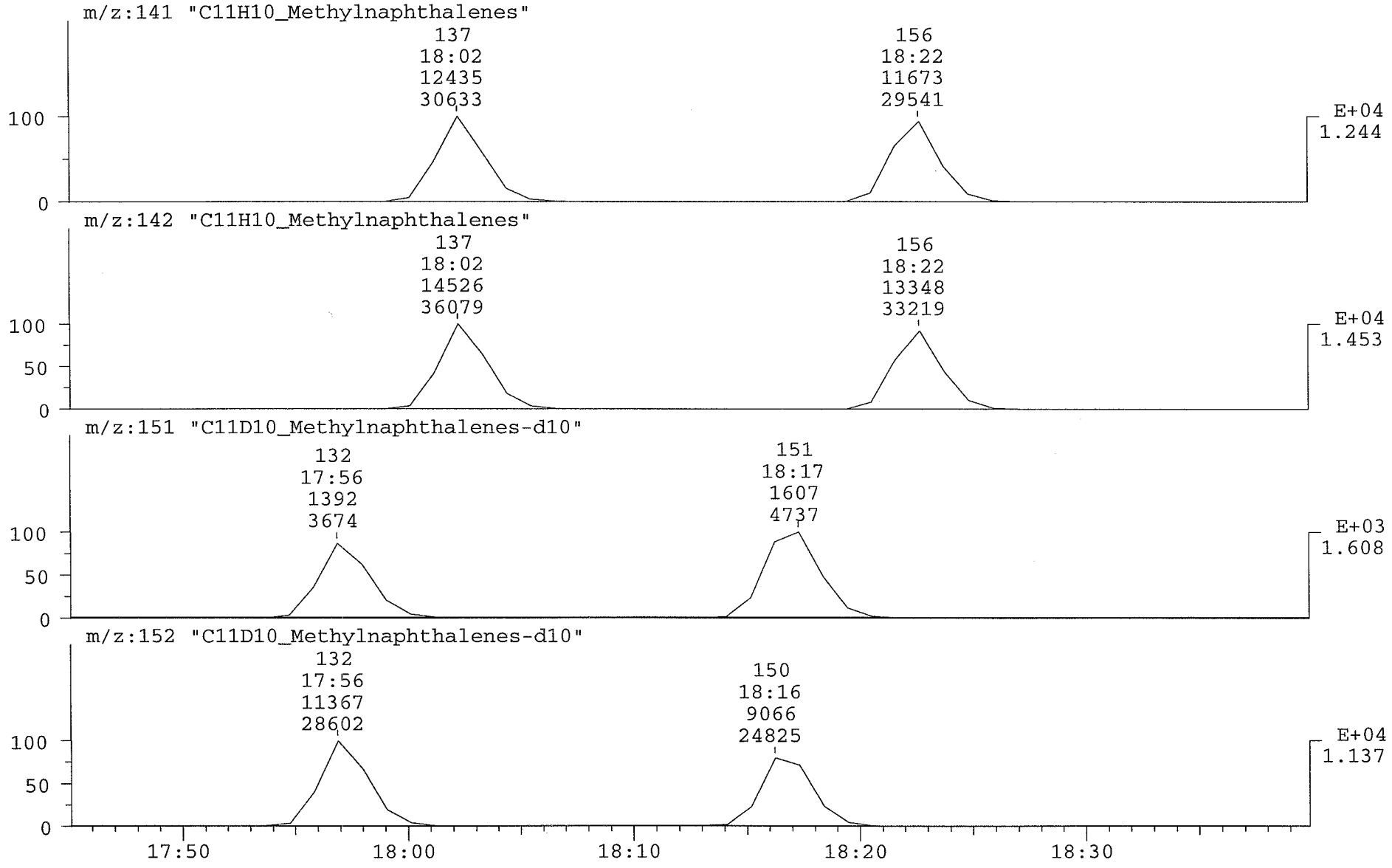
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CHRO:  icv04282                                28-APR-06   Elapse:  29:37.0     679
Samp:  WO=3377:08 Meth=YA1 Dil=1                           Start :  19:42:00    1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                    Study :  ICAL VER
Oper:  JMN           Client:  STL Knoxville                Inlet :
Peak:  100.00  ppm     Label wndw:   1 > 1384              Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1                Label :  0, 3.0
Disp:  Height  Area
```



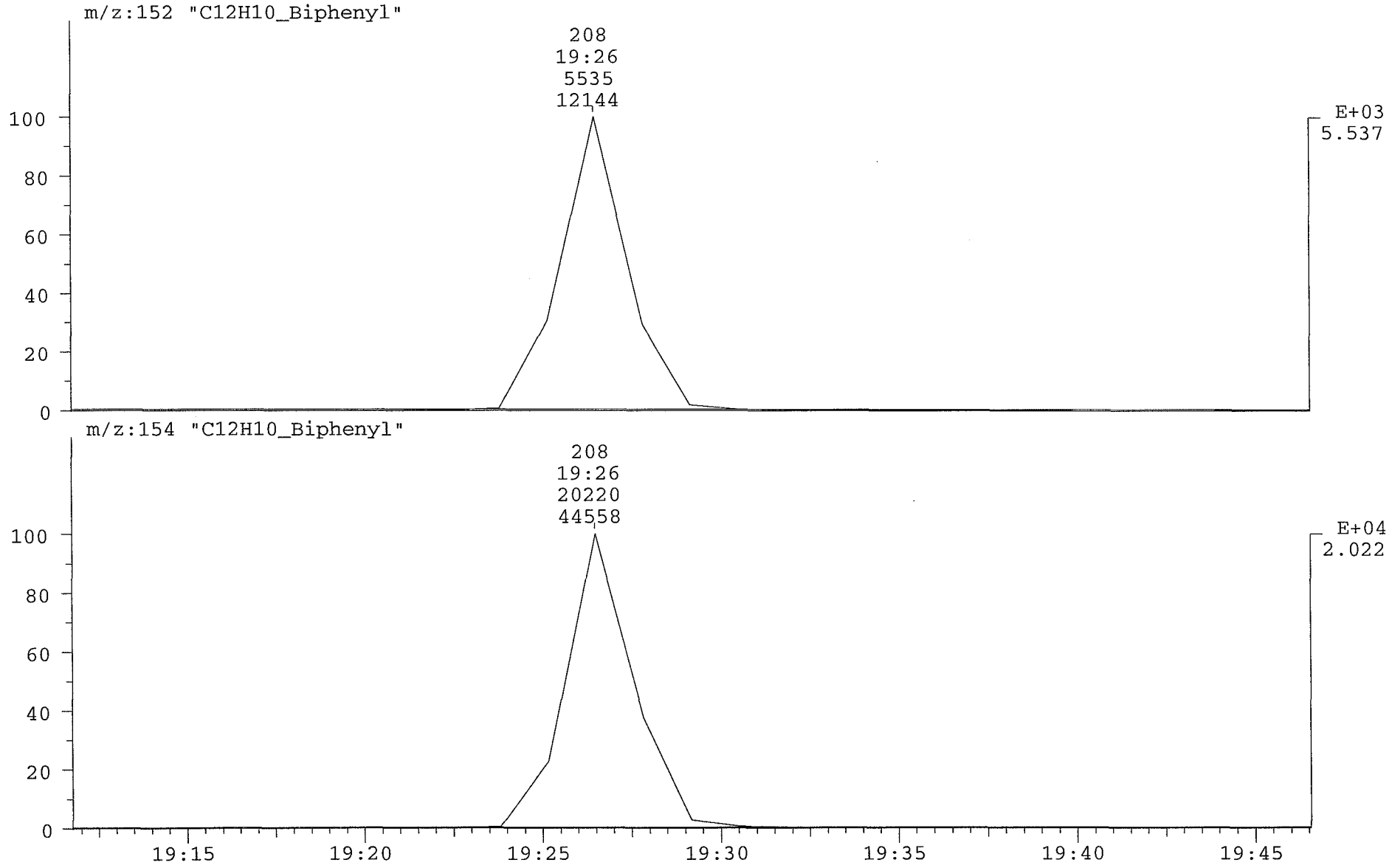
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



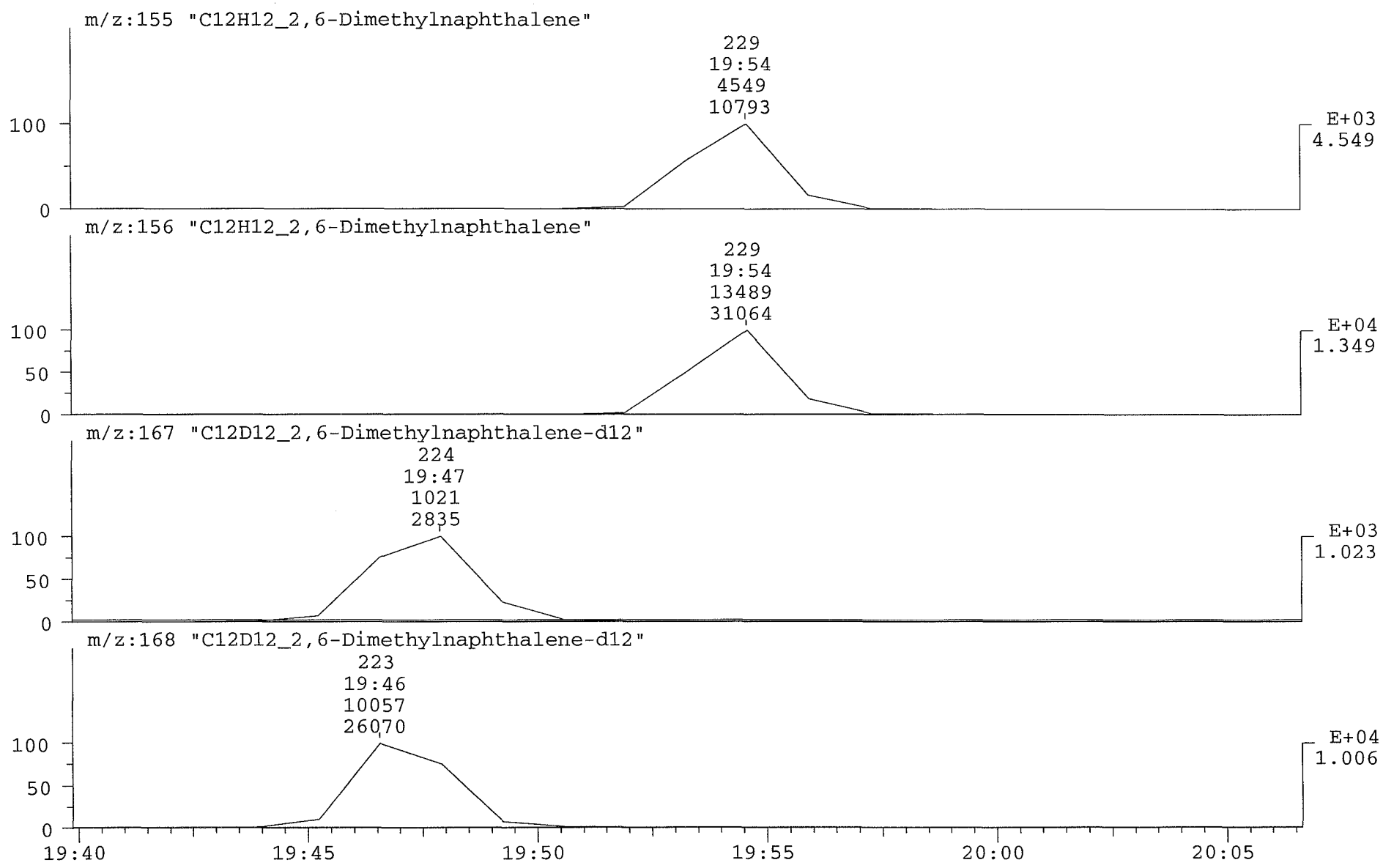
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



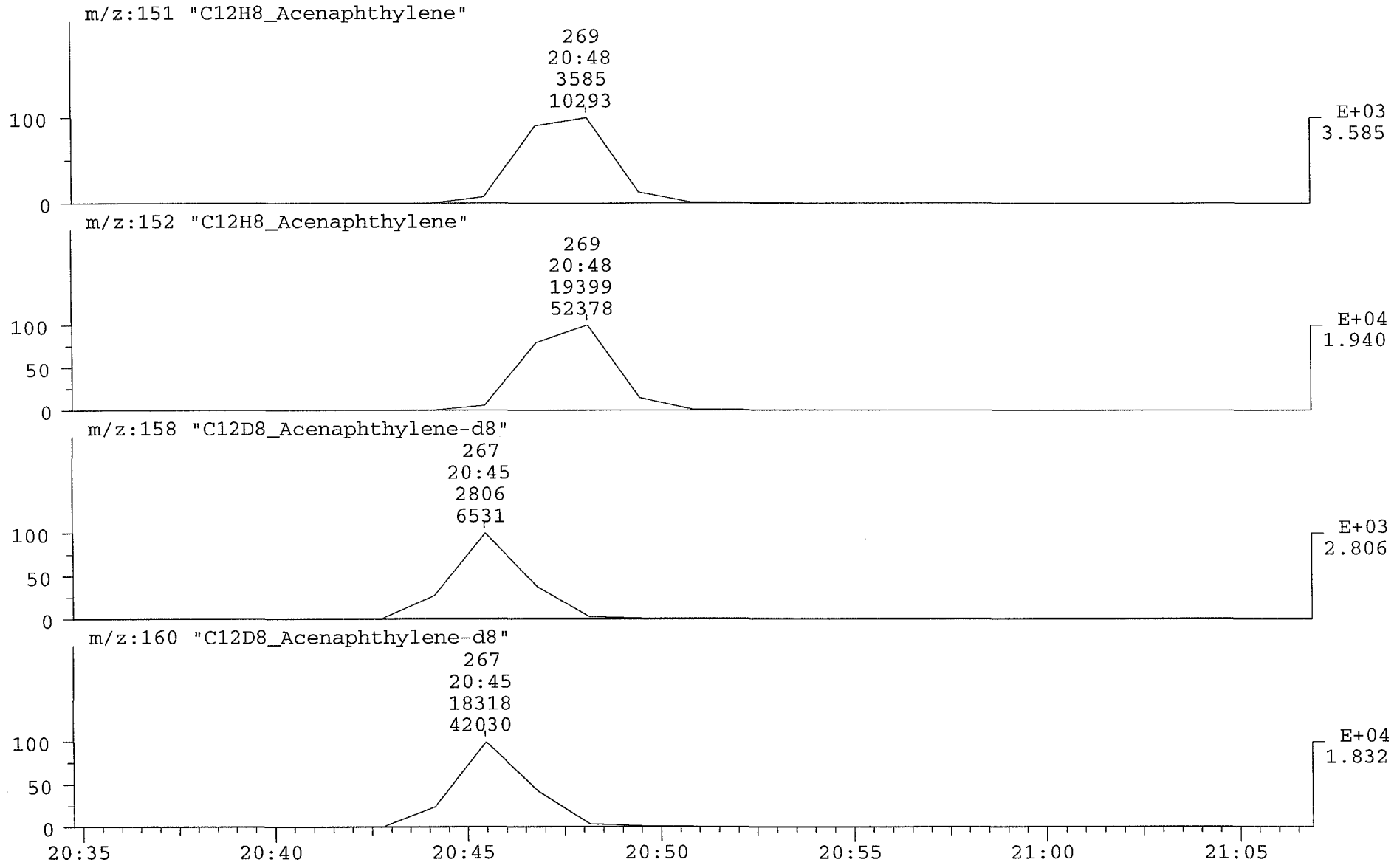
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CHRO:  icv04282                              28-APR-06   Elapse:   49:19      1735
Samp:  WO=3377:08 Meth=YA1 Dil=1                         Start :   19:42:00   1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                  Study :   ICAL VER
Oper:  JMN           Client:  STL Knoxville              Inlet :
Peak:  100.00  ppm     Label wndw:   197 > 223           Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



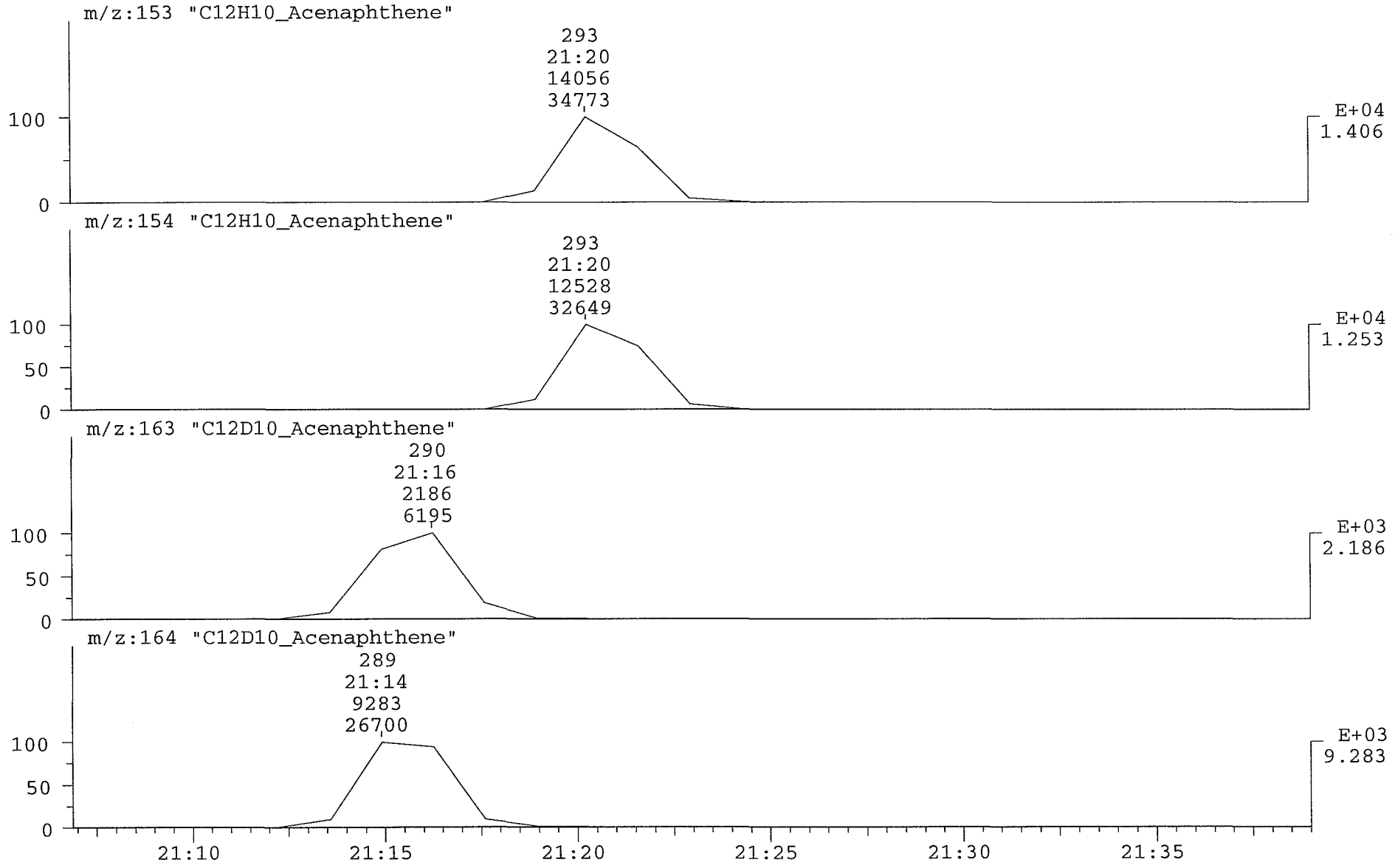
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



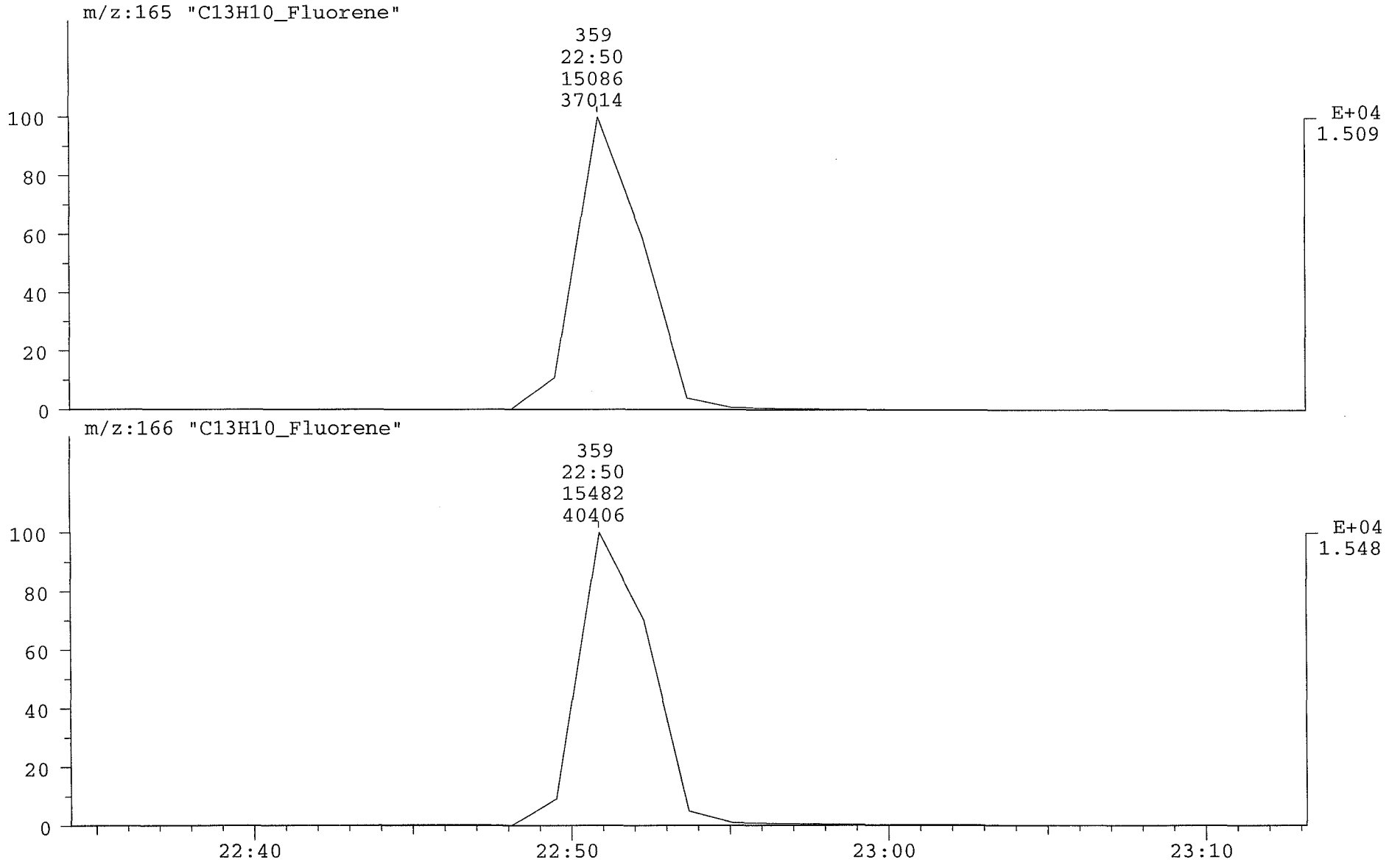
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



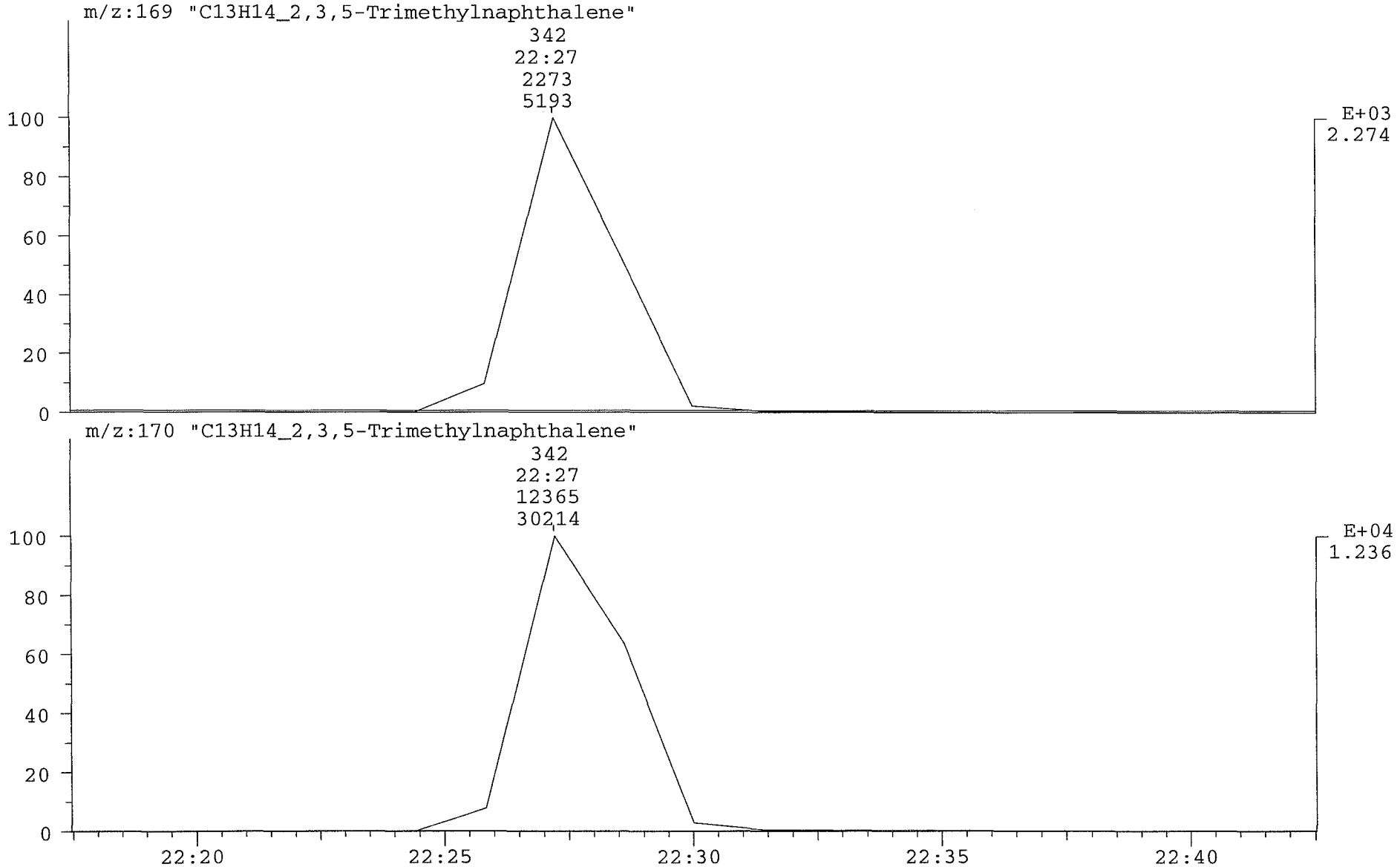
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



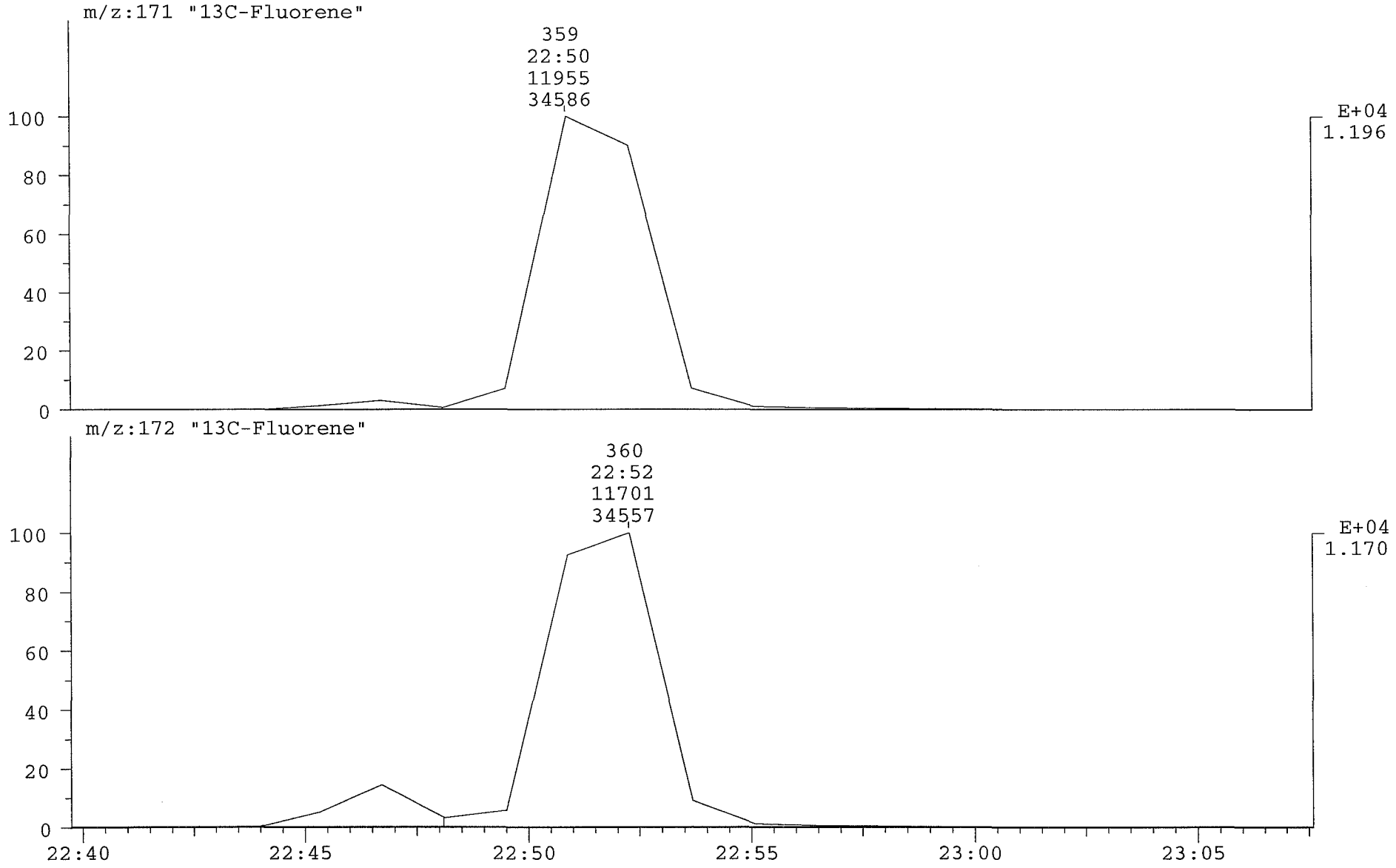
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



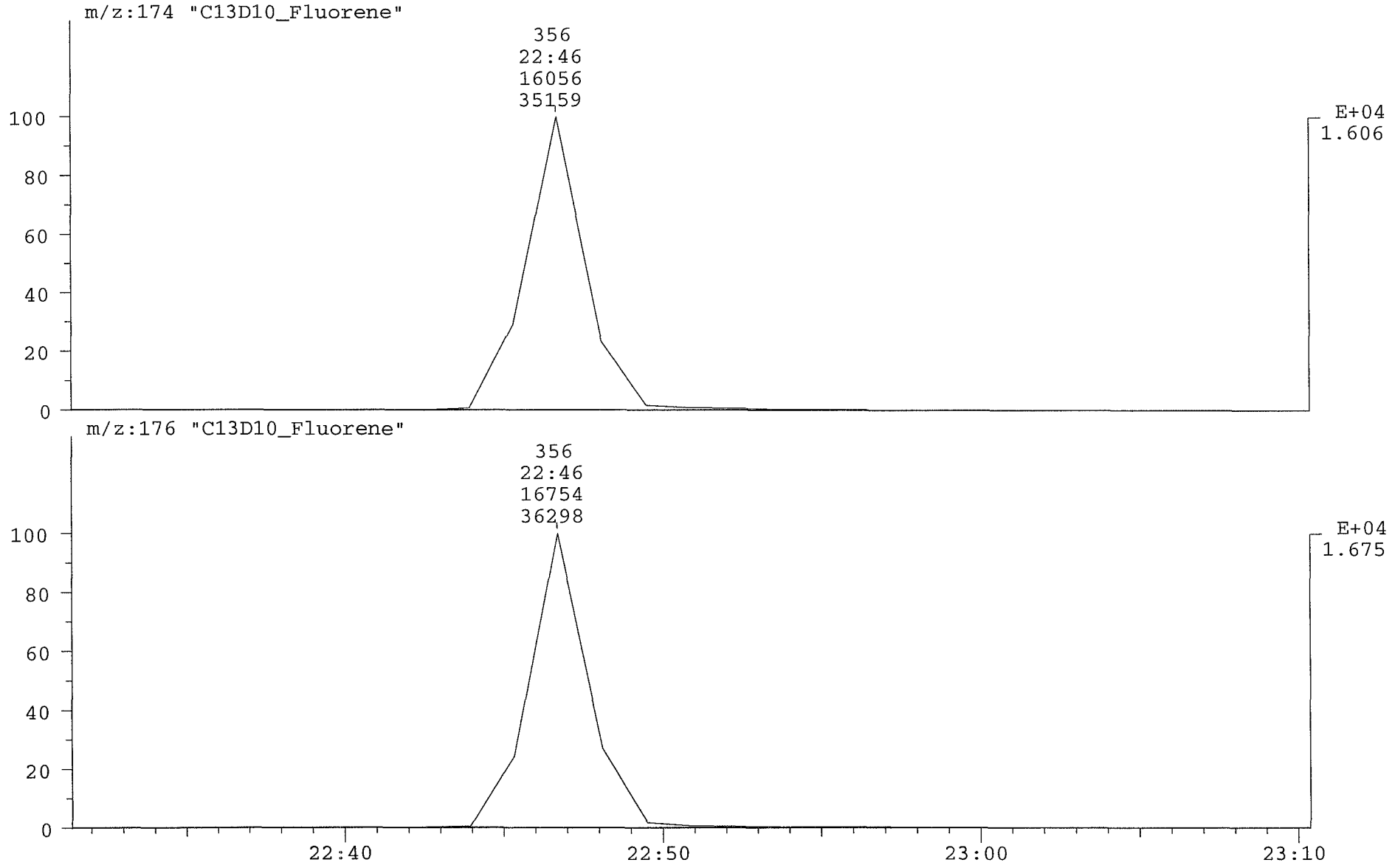
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=2006426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



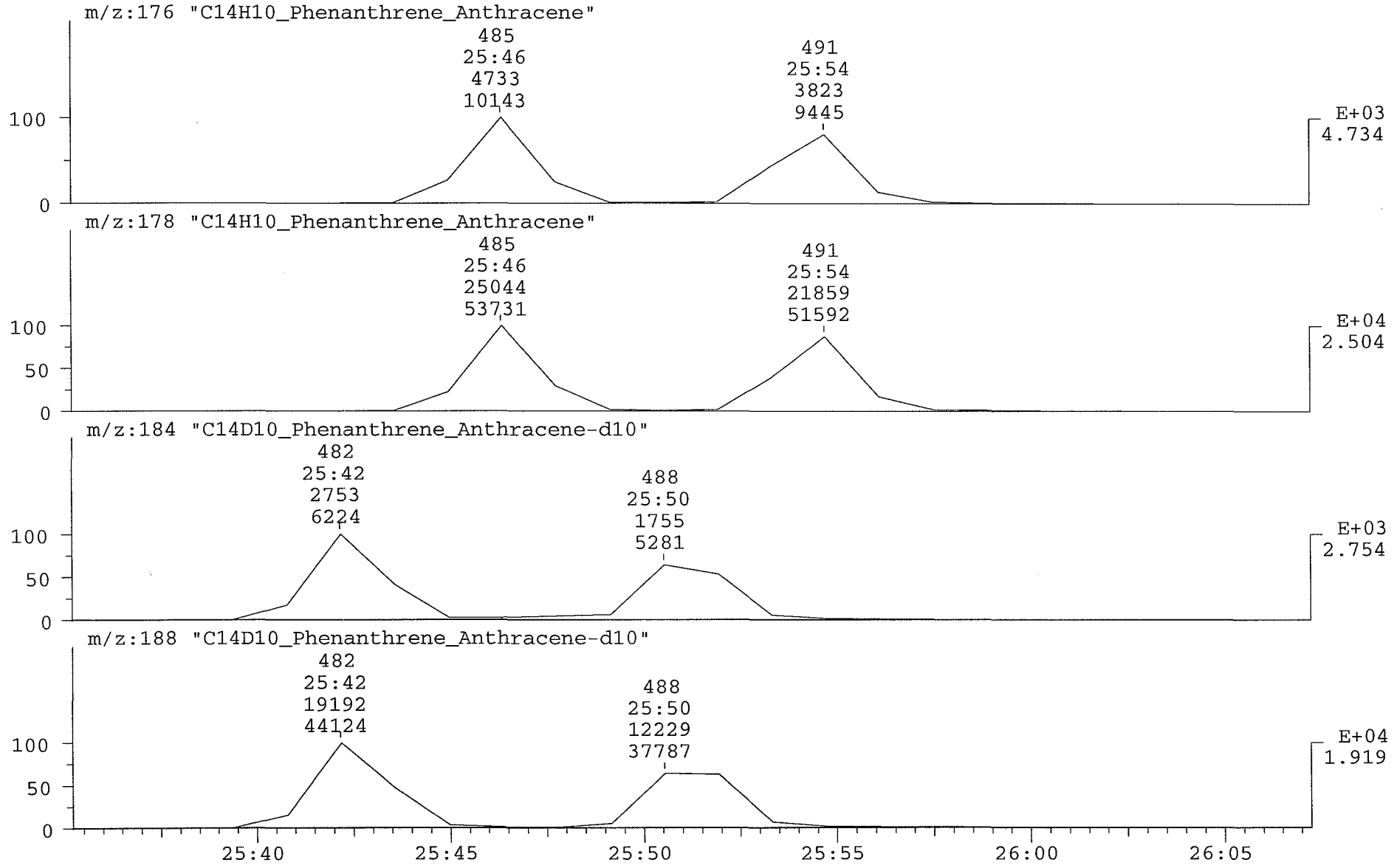
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



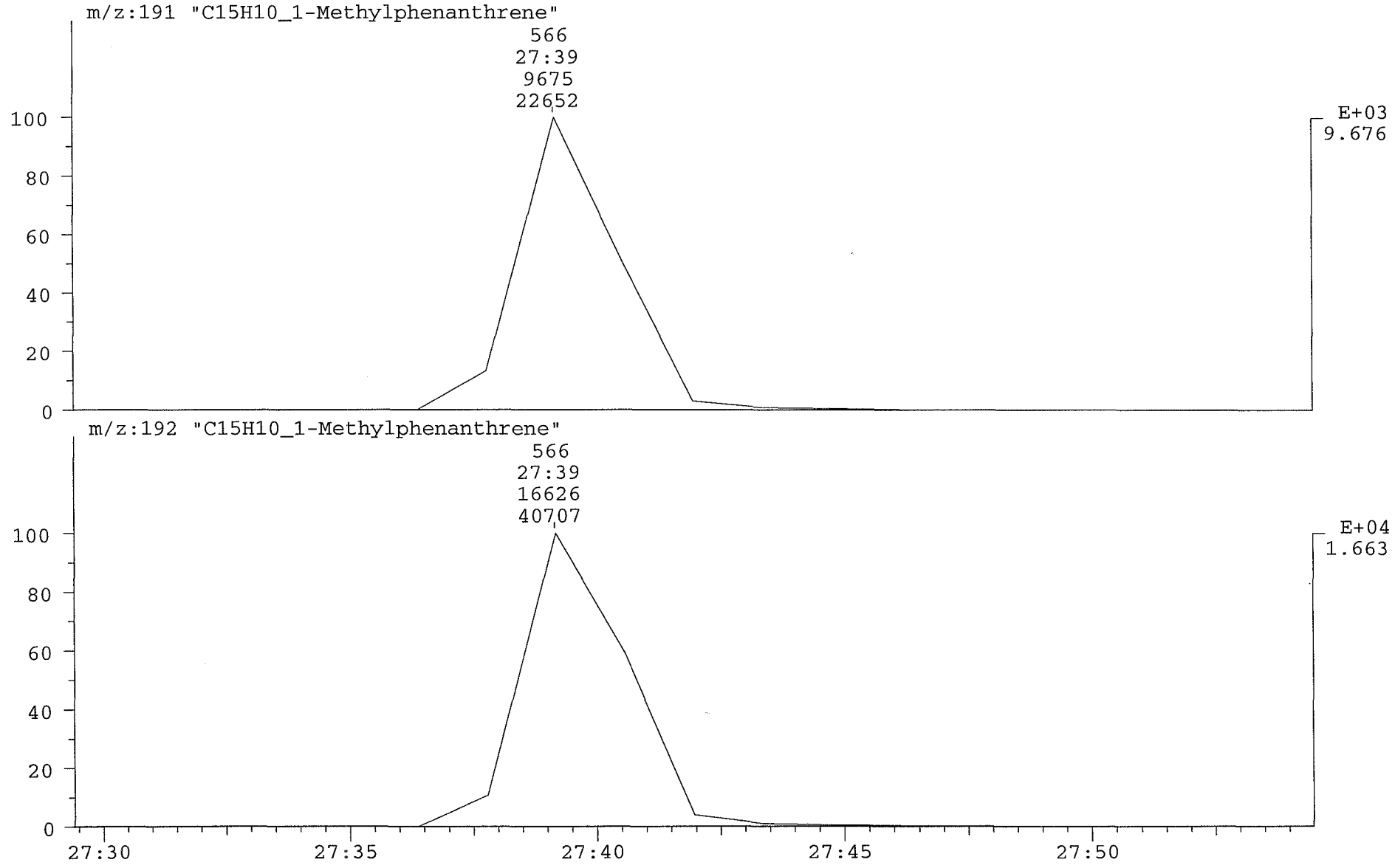
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 345 > 373 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



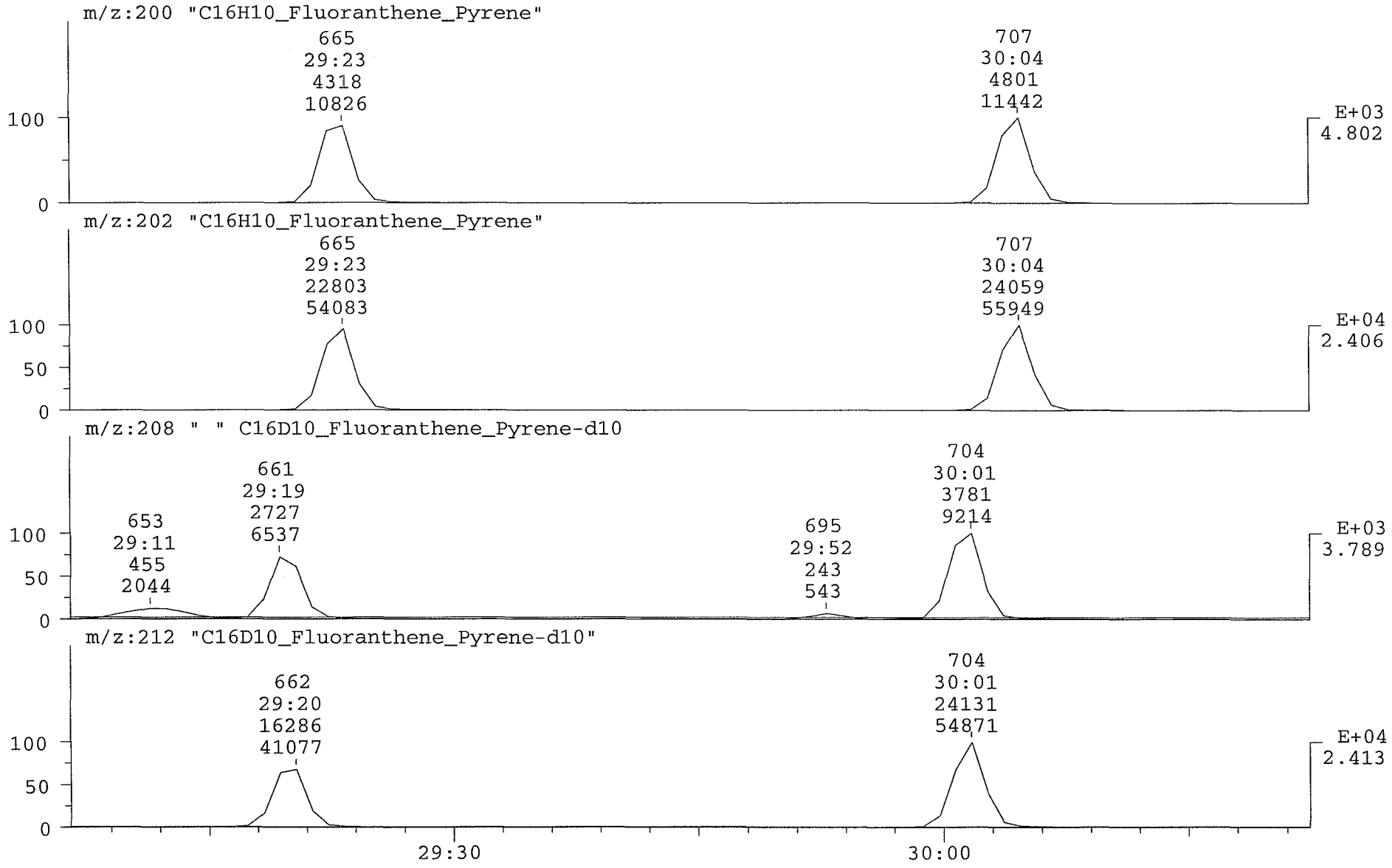
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



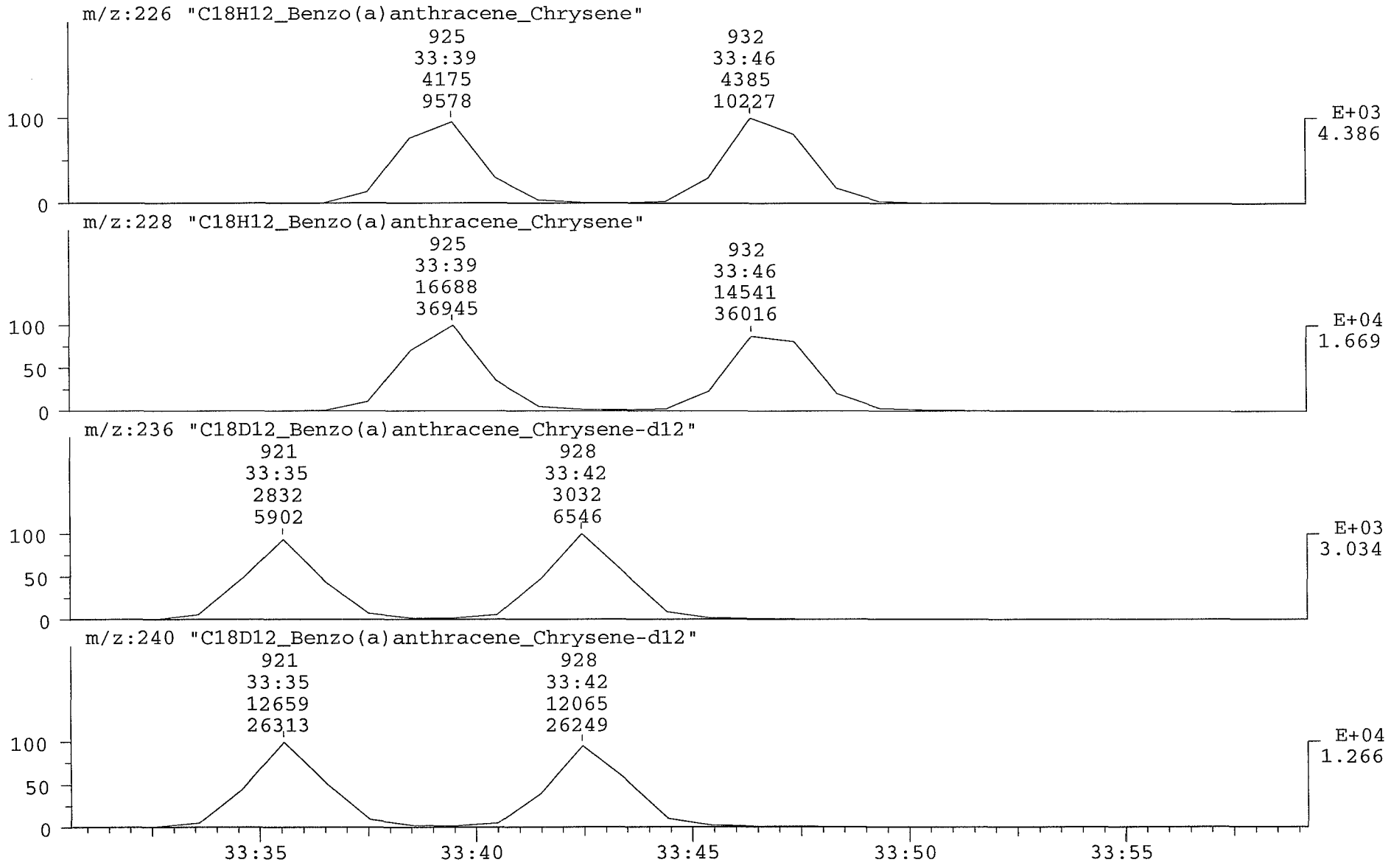
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

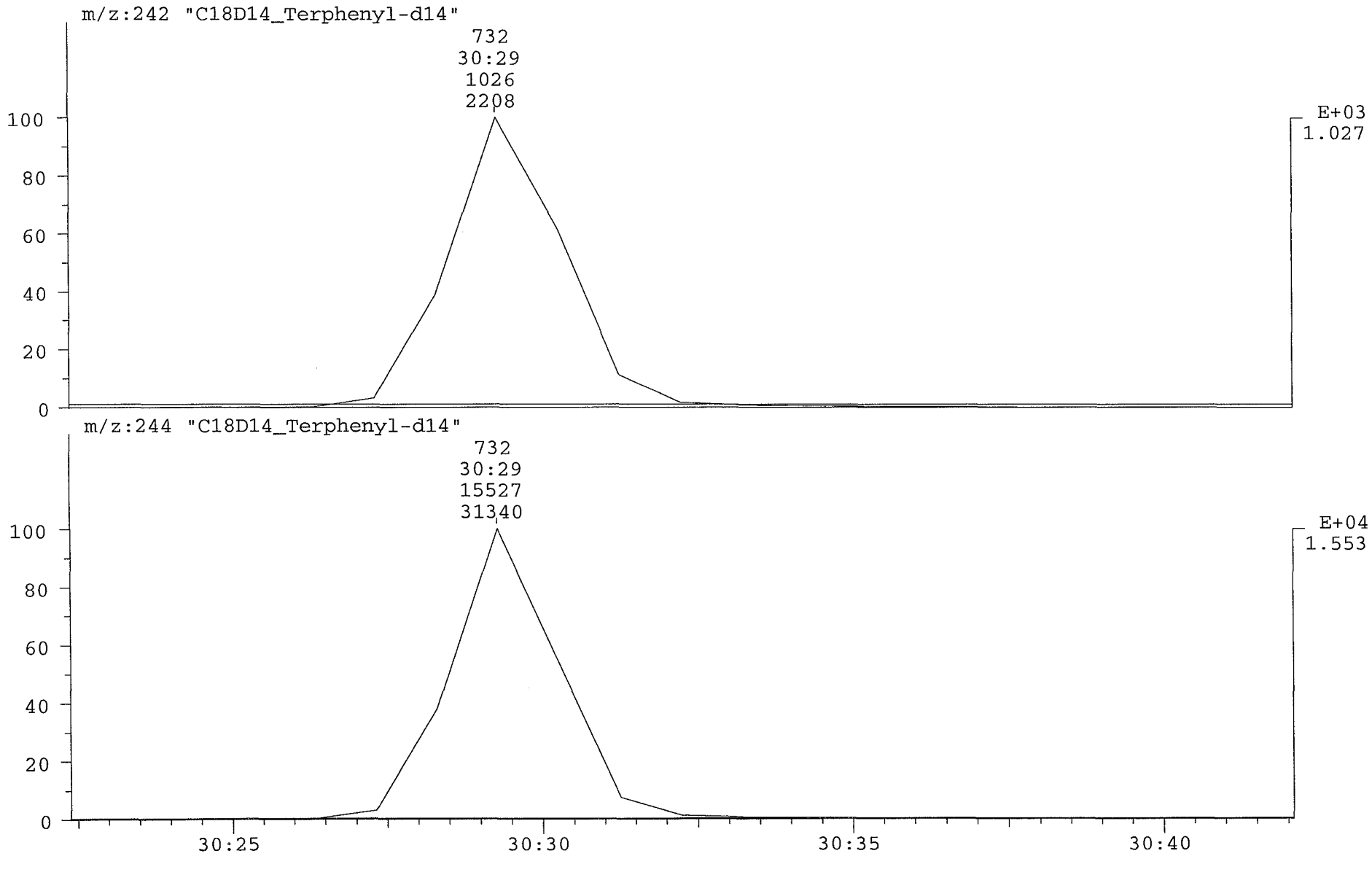


CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

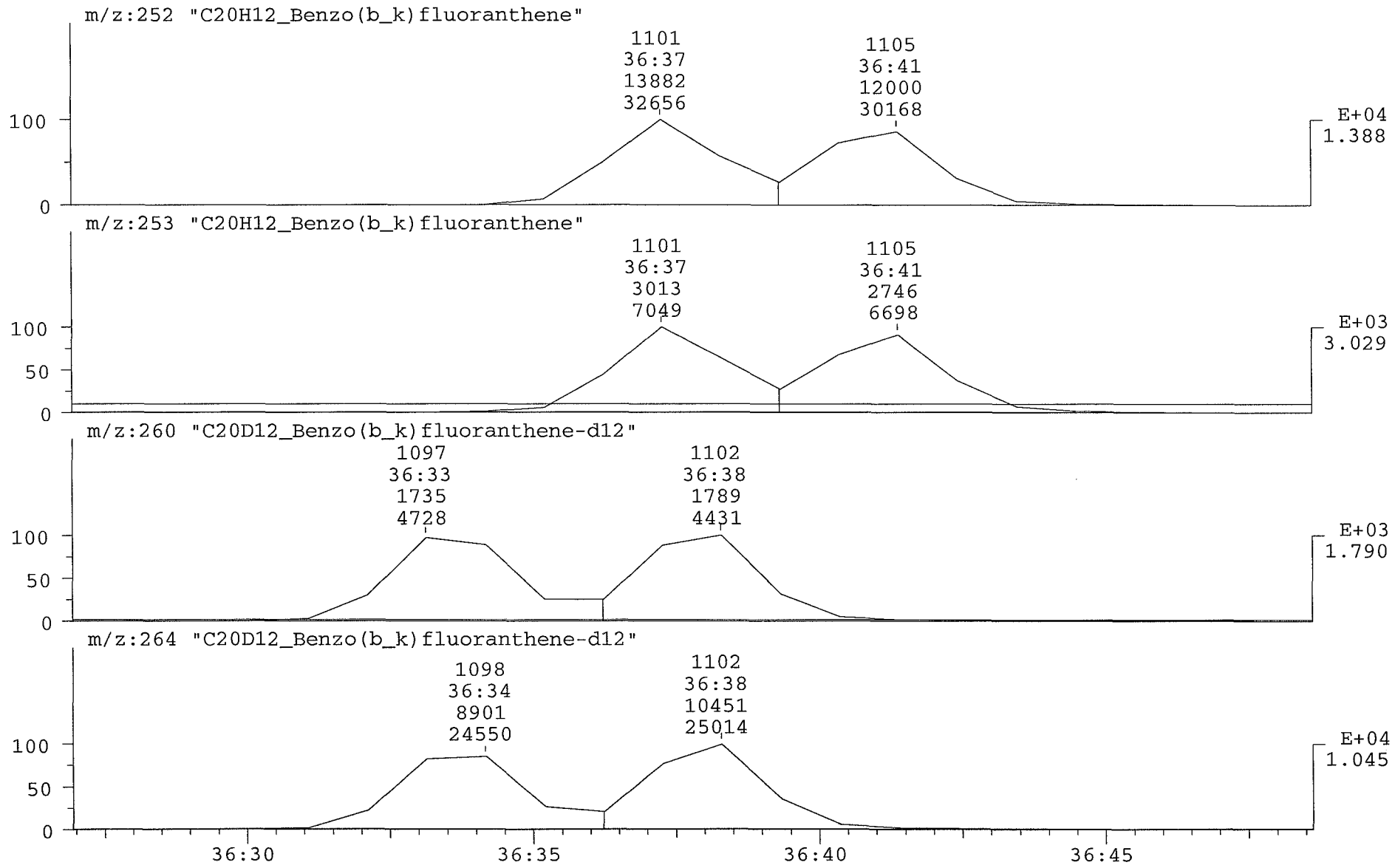


4380

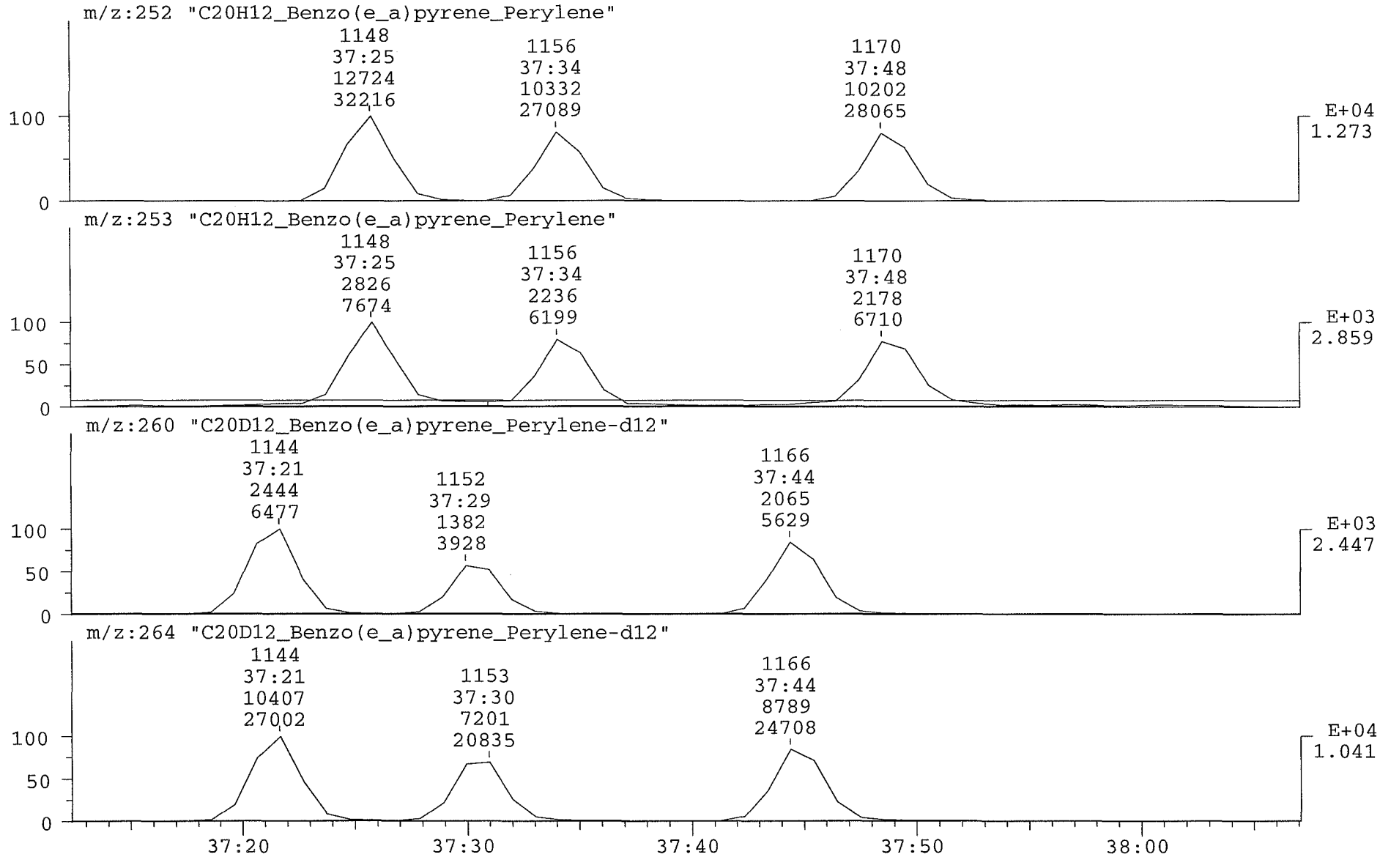
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 725 > 745 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



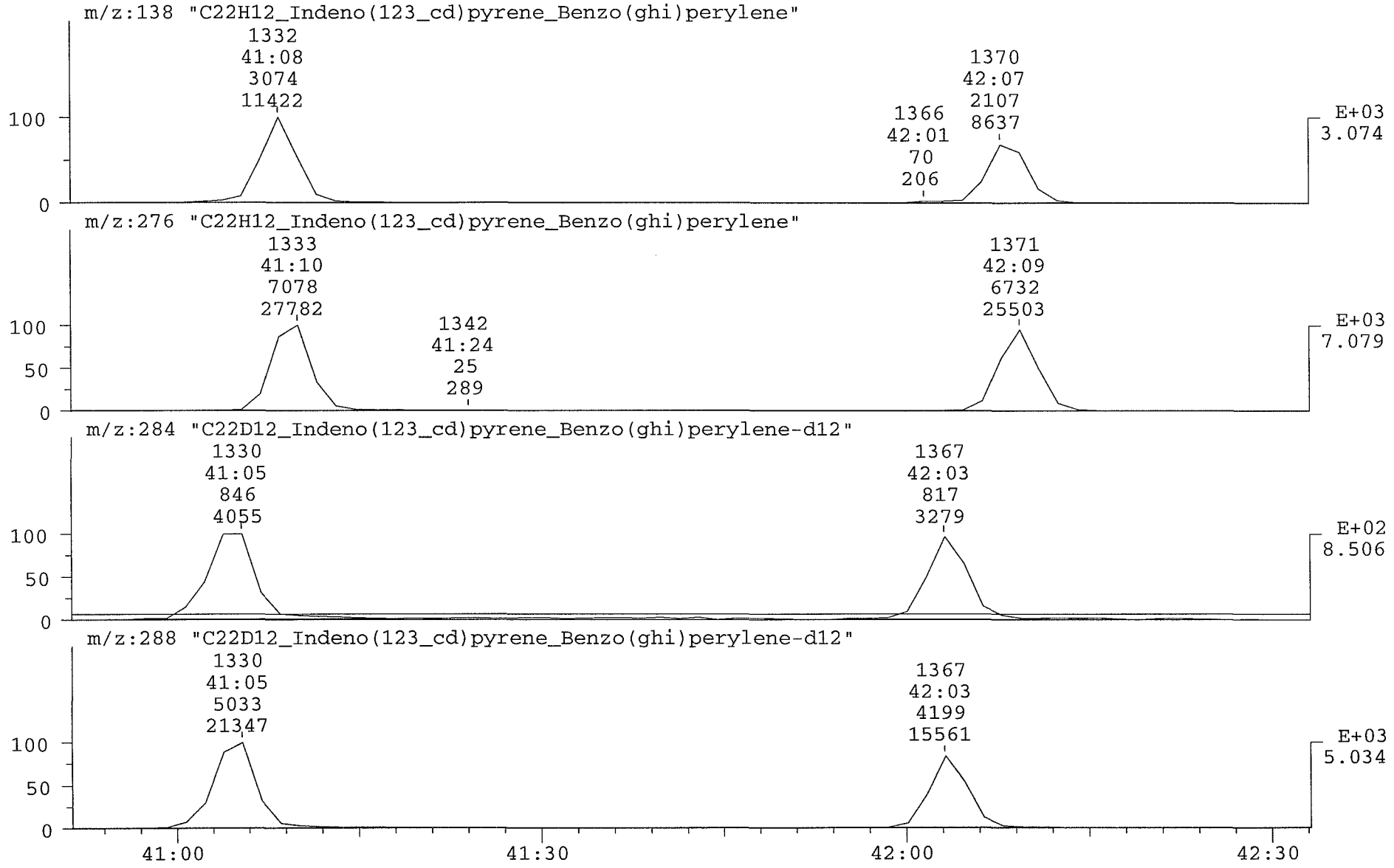
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



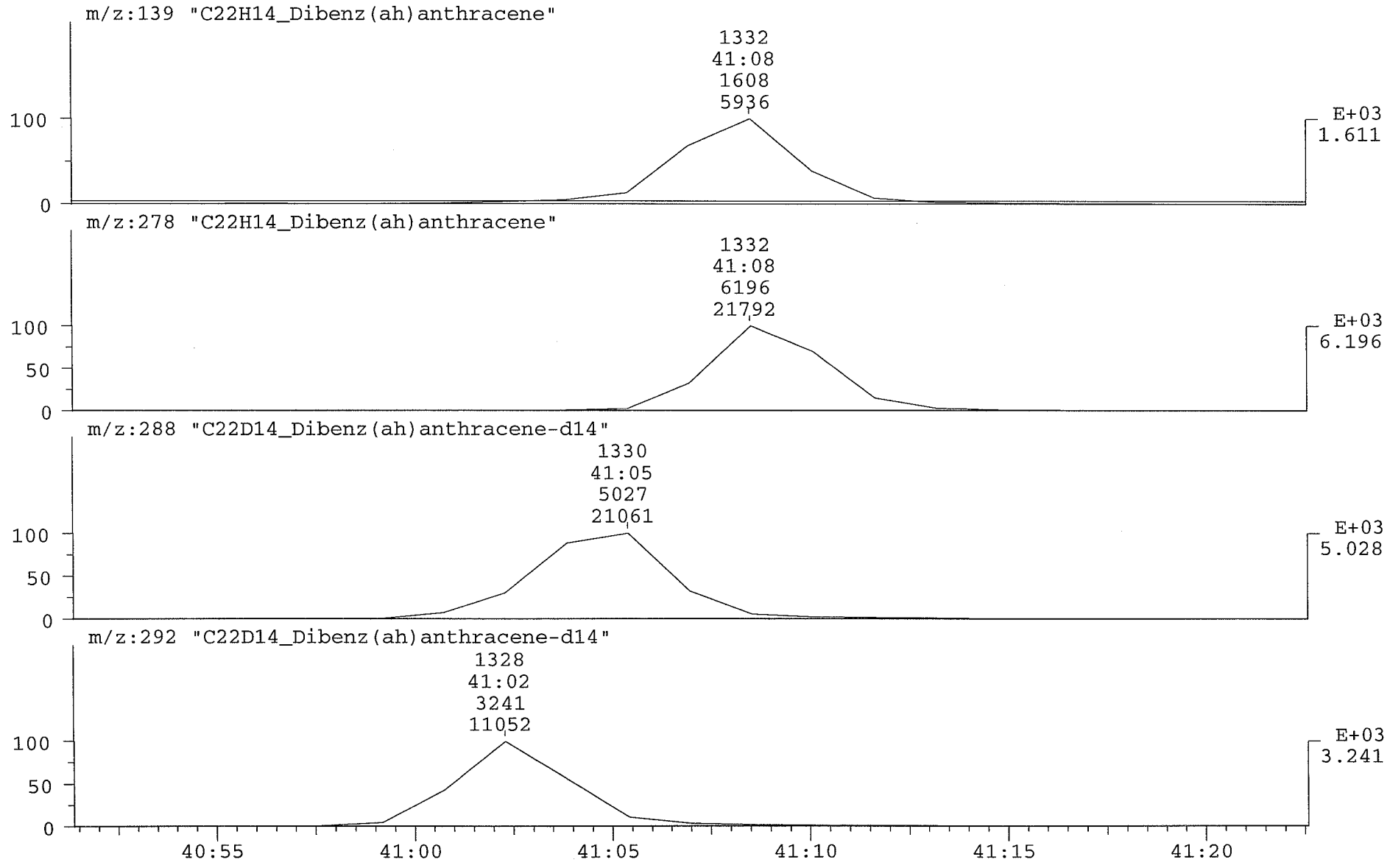
CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: icv04282 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:08 Meth=YA1 Dil=1 Start : 19:42:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : ICAL VER
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: ICV04282.D
Date Acquired: 28 Apr 2006   7:42 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: ICV604282
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  7
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Fri Apr 28 20:26:24 2006
d:\cdffiles\ICV04282.CDF Translated at Fri Apr 28 20:26:24 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Fri Apr 28 14:52:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/icv04282.dat
NetCDF File (input): /usr/users/hp/data/icv04282.cdf

Number of Scans: 1384

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

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

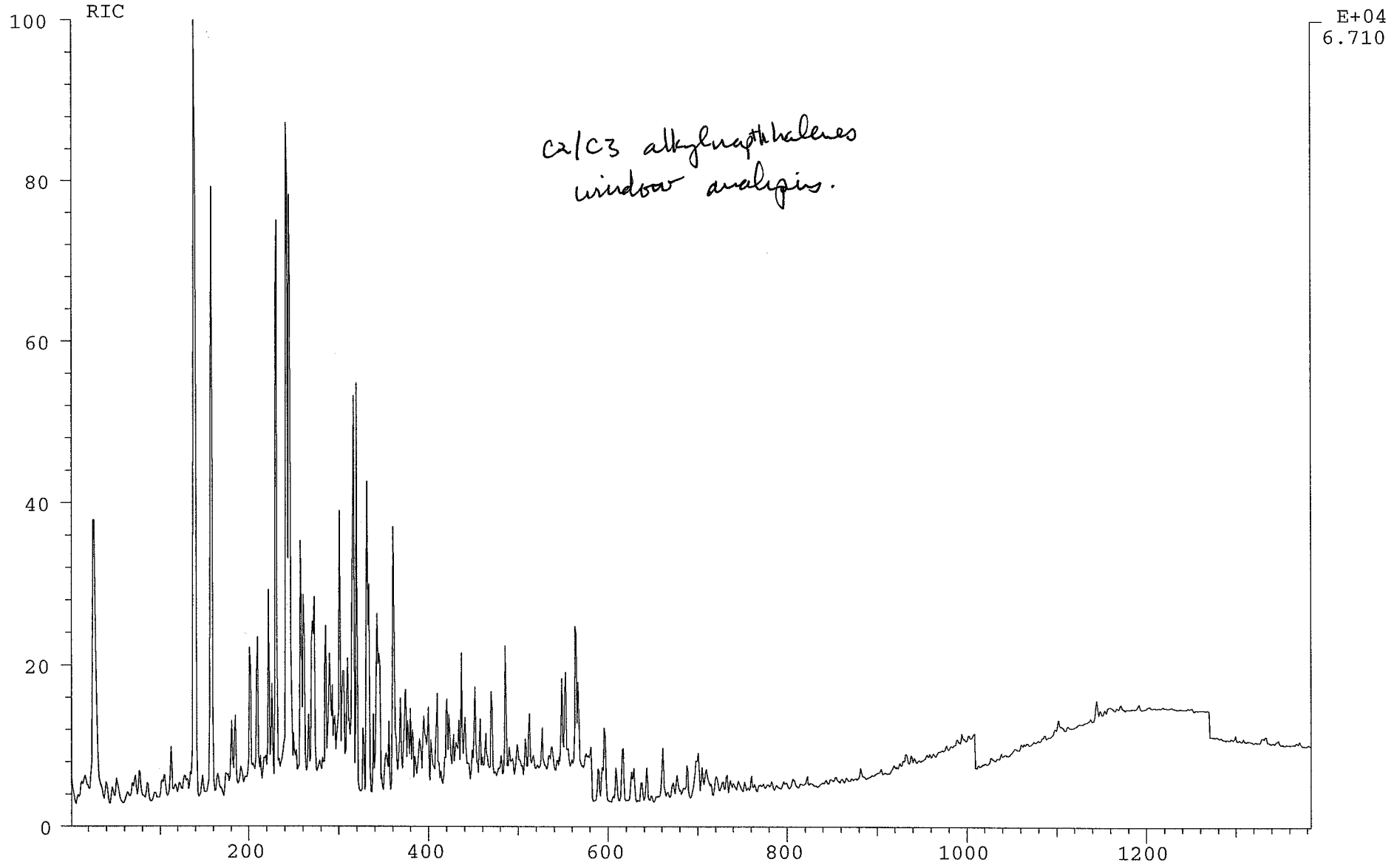
Processed all the scan data, closing the files ...

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Fri Apr 28 14:52:01 EDT 2006

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

CHRO: an0428 28-APR-06 Elapse: 41:00 1327
Samp: AN060428 Start : 17:52:00 1384
Comm: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : SIM60ML.M
Oper: Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1 > 1384 Masses: 0 > 308
Area: 5, 0.50, 0 Baseline : 100, 3 Label : 0, 0.0
Disp: Height Area

Lot: J 9/28/06



C2/C3 alkylnaphthalenes window analysis.

Data File: /var/chem/gcms/my.i/y060428s1.b/dfy0428.d

Date : 28-APR-2006 14:01

Client ID: Tune

Instrument: my.i

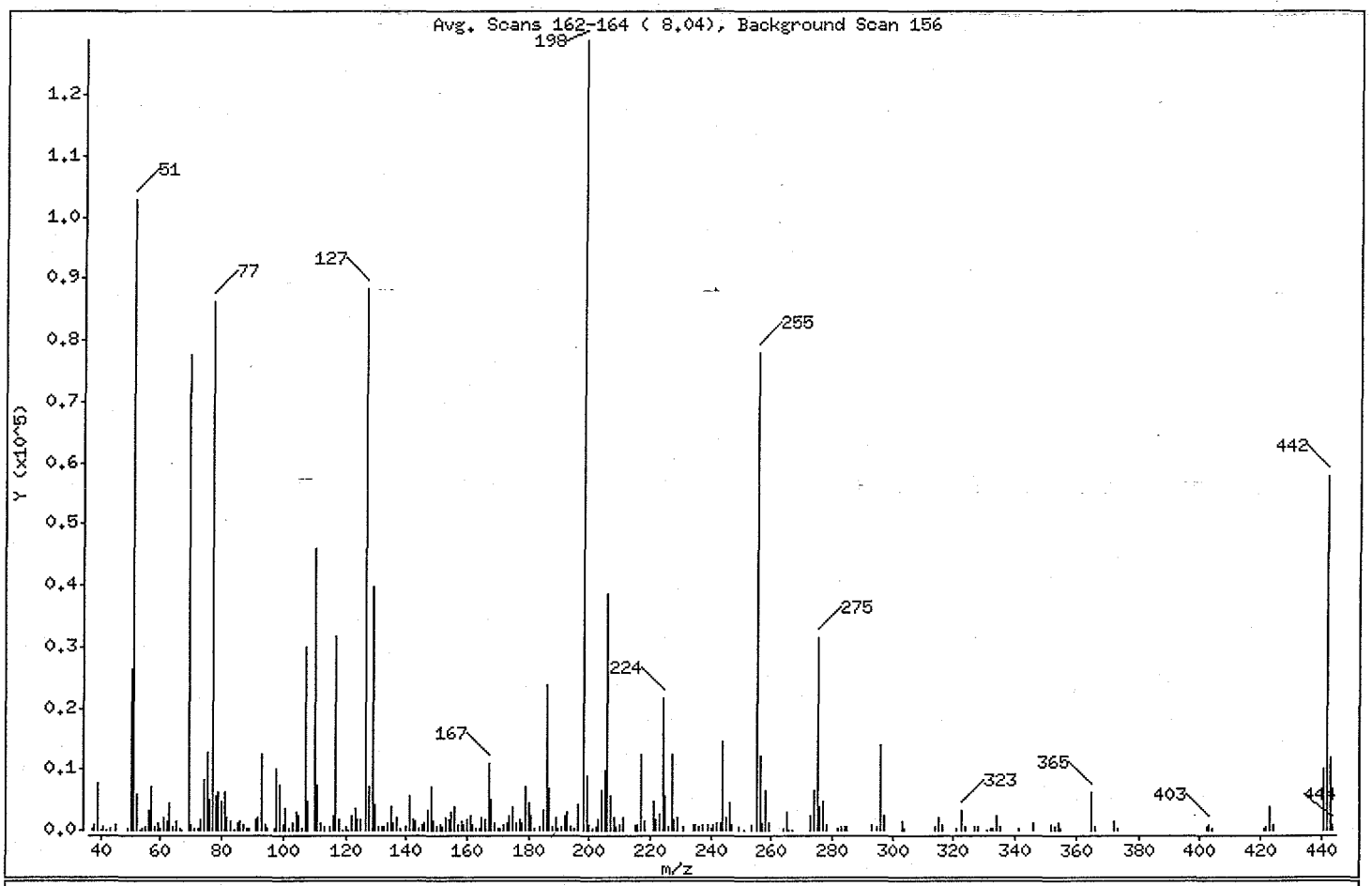
Sample Info: Y060428S1,DFTPP,

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	79.84
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.32
70	Less than 2.00% of mass 69	0.74 (1.22)
127	25.00 - 75.00% of mass 198	68.59
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 30.00% of mass 198	24.28
365	Greater than 0.75% of mass 198	4.86
441	Present, but less than mass 443	7.71
442	40.00 - 110.00% of mass 198	44.72
443	15.00 - 24.00% of mass 442	9.18 (20.53)

Data File: /var/chem/gcms/my.i/y060428s1.b/dfy0428.d

Date : 28-APR-2006 14:01

Client ID: Tune

Instrument: my.i

Sample Info: Y060428S1,DFTPP,

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy0428.d

Spectrum: Avg. Scans 162-164 (8.04), Background Scan 156

Location of Maximum: 198.00

Number of points: 251

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	393	107.00	29896	174.00	2316	249.00	616
38.00	813	108.00	4616	175.00	3759	251.00	103
39.00	7635	110.00	45920	176.00	1200	253.00	747
40.00	8	111.00	7510	177.00	1770	255.00	77984
41.00	579	112.00	1301	178.00	1184	256.00	12282
42.00	117	113.00	712	179.00	7046	257.00	1219
43.00	342	115.00	493	180.00	4594	258.00	6503
45.00	865	116.00	2325	181.00	2436	259.00	1134
49.00	301	117.00	31624	182.00	363	264.00	348
50.00	26352	118.00	1919	184.00	473	265.00	3088
51.00	102968	119.00	95	185.00	3258	266.00	115
52.00	5804	120.00	667	186.00	23864	267.00	111
53.00	130	121.00	128	187.00	6853	273.00	2460
54.00	178	122.00	2391	188.00	709	274.00	6545
55.00	728	123.00	3633	189.00	2216	275.00	31304
56.00	3178	124.00	1645	190.00	171	276.00	3983
57.00	7009	125.00	1651	191.00	582	277.00	4618
58.00	684	127.00	88464	192.00	2227	278.00	813
59.00	1300	128.00	7016	193.00	3088	282.00	360
60.00	210	129.00	39856	194.00	697	283.00	637
61.00	1996	130.00	4176	195.00	274	284.00	596
62.00	1486	131.00	715	196.00	4284	285.00	732
63.00	4381	132.00	716	198.00	128968	293.00	964
64.00	655	133.00	709	199.00	8922	295.00	466
65.00	1579	134.00	1248	200.00	940	296.00	13914
66.00	174	135.00	3765	201.00	284	297.00	2400
67.00	111	136.00	1196	202.00	639	303.00	1372
69.00	77792	137.00	2092	203.00	1660	304.00	359
70.00	952	138.00	167	204.00	6658	314.00	632
71.00	288	140.00	519	205.00	9758	315.00	1941
72.00	175	141.00	5575	206.00	38408	316.00	959
73.00	1732	142.00	1881	207.00	5704	321.00	188
74.00	8403	143.00	1347	208.00	1969	323.00	3144
75.00	12858	144.00	206	209.00	590	324.00	625
76.00	5020	145.00	748	210.00	808	327.00	654

Data File: /var/chem/gcms/my.i/y060428s1.b/dfy0428.d

Date : 28-APR-2006 14:01

Client ID: Tune

Instrument: my.i

Sample Info: Y060428S1,DFTPP,

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy0428.d
Spectrum: Avg. Scans 162-164 (8.04), Background Scan 156
Location of Maximum: 198.00
Number of points: 251

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	86296	146.00	1276	211.00	2110	328.00	653
78.00	5779	147.00	3322	215.00	786	331.00	23
79.00	6335	148.00	7184	216.00	1036	332.00	173
80.00	4880	149.00	1393	217.00	12510	333.00	206
81.00	6329	150.00	655	218.00	1561	334.00	2429
82.00	2126	151.00	879	221.00	4669	335.00	667
83.00	1420	152.00	686	222.00	1857	341.00	183
84.00	110	153.00	1989	223.00	2584	346.00	1106
85.00	1198	154.00	1855	224.00	21616	352.00	821
86.00	1485	155.00	2953	225.00	5593	353.00	666
87.00	864	156.00	3783	226.00	461	354.00	1079
88.00	288	157.00	883	227.00	12558	355.00	306
89.00	163	158.00	1360	228.00	1843	365.00	6267
91.00	1685	159.00	985	229.00	2051	366.00	662
92.00	2028	160.00	1789	231.00	569	372.00	1439
93.00	12403	161.00	2347	234.00	935	373.00	209
94.00	955	162.00	800	235.00	1029	402.00	675
95.00	241	163.00	299	236.00	587	403.00	988
97.00	364	164.00	404	237.00	863	404.00	172
98.00	9987	165.00	2161	239.00	778	421.00	439
99.00	7368	166.00	1881	240.00	170	422.00	457
100.00	955	167.00	10899	241.00	813	423.00	3722
101.00	3660	168.00	5010	242.00	1205	424.00	902
102.00	408	169.00	1127	243.00	1195	441.00	9939
103.00	1328	170.00	386	244.00	14517	442.00	57680
104.00	3080	171.00	416	245.00	2147	443.00	11844
105.00	2258	172.00	1028	246.00	4390	444.00	984
106.00	322	173.00	1195	247.00	814		

Data File: /var/chem/gcms/my.i/y060428s1.b/dfy0428.d

Date : 28-APR-2006 14:01

Client ID: Tune

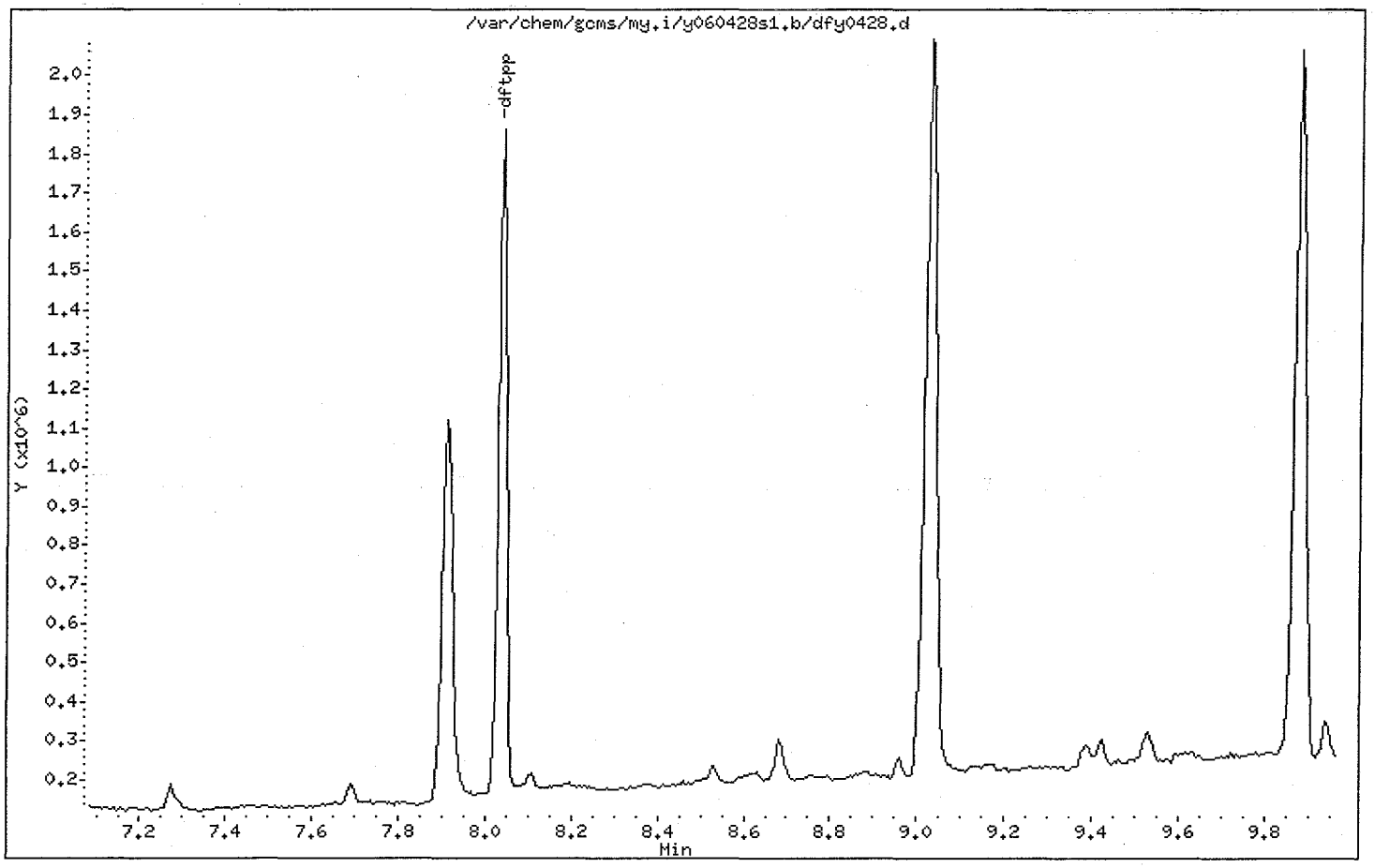
Instrument: my.i

Sample Info: Y060428S1,DFTPP,

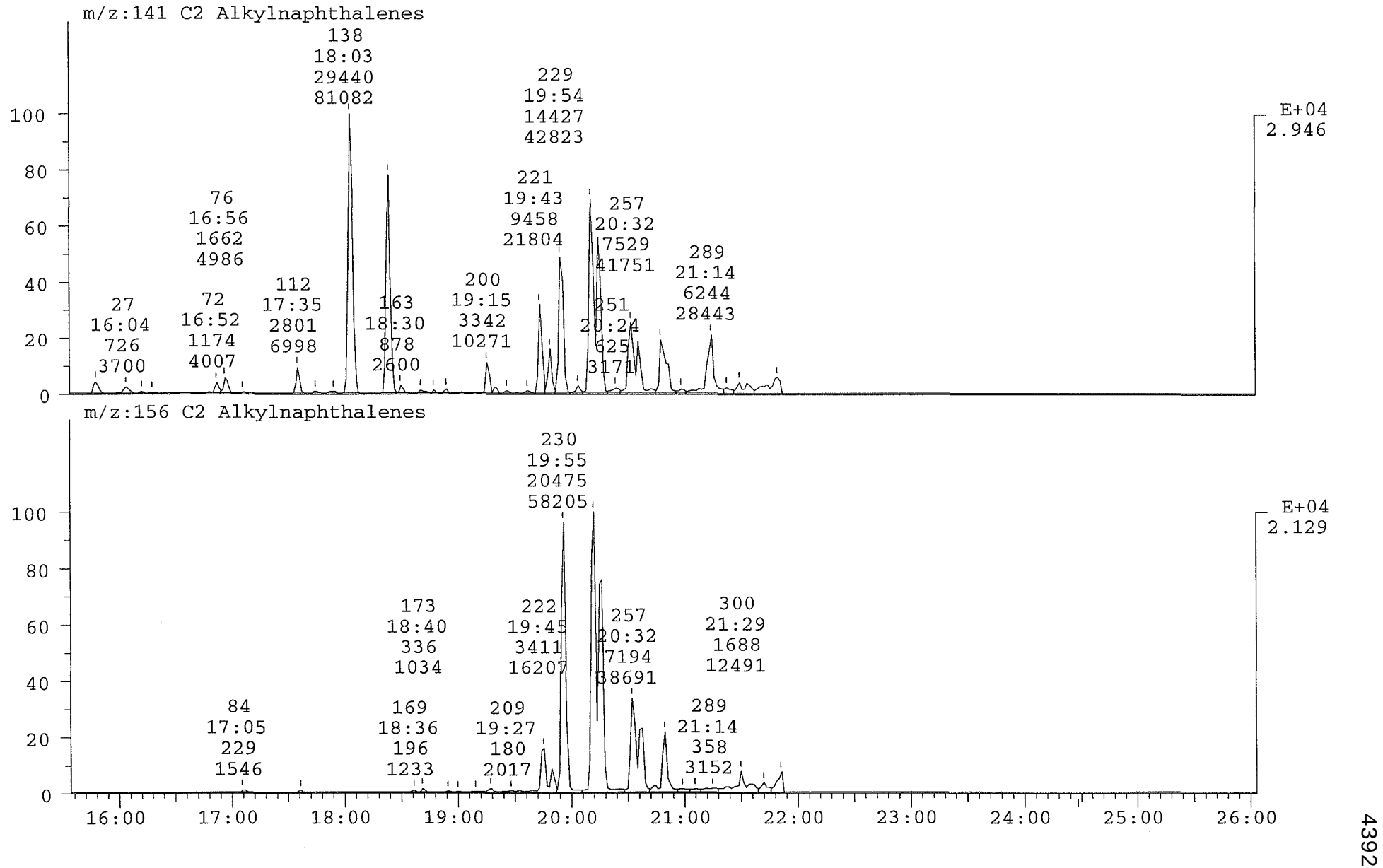
Operator: JMN

Column phase: HP5-MS

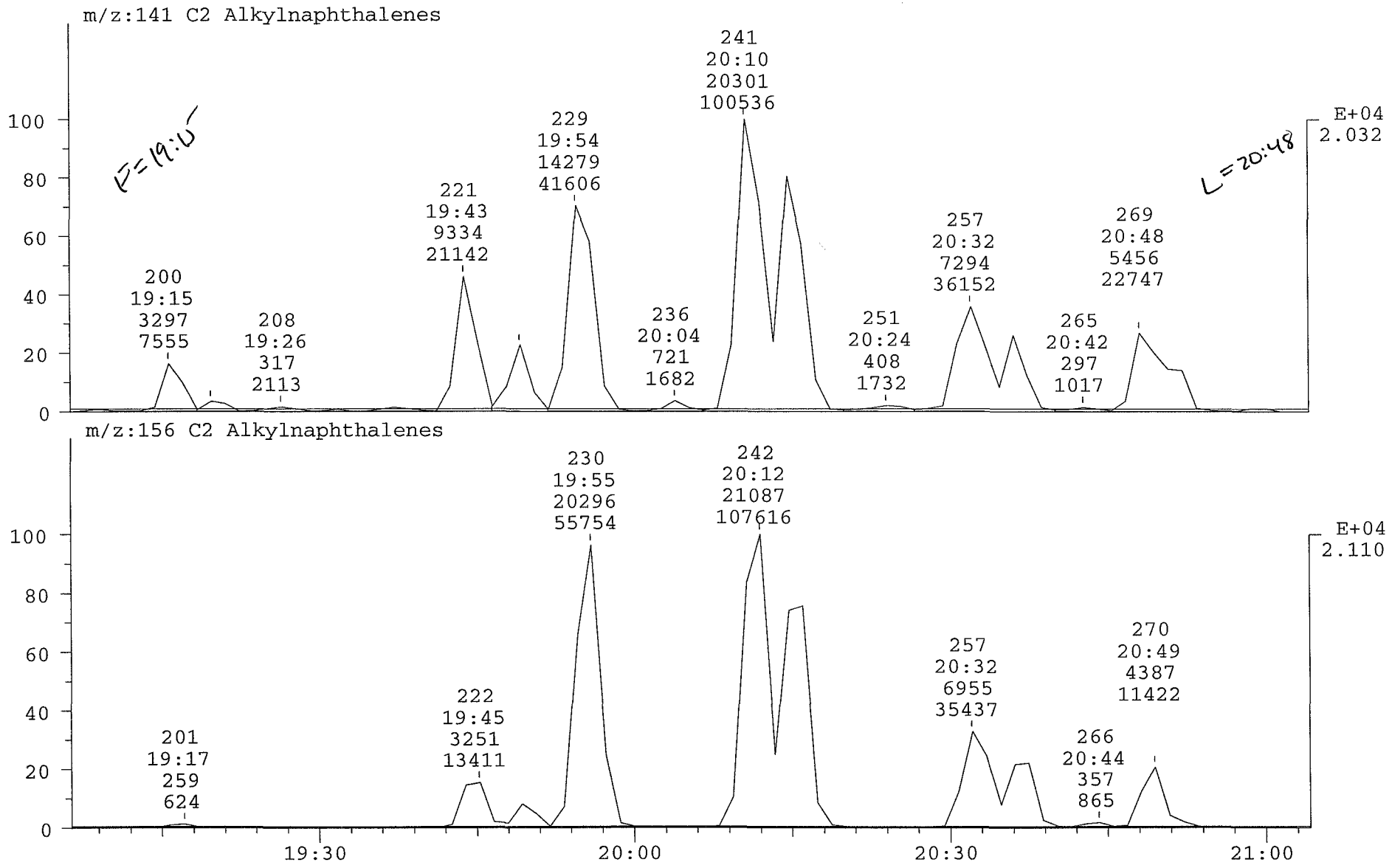
Column diameter: 0.25



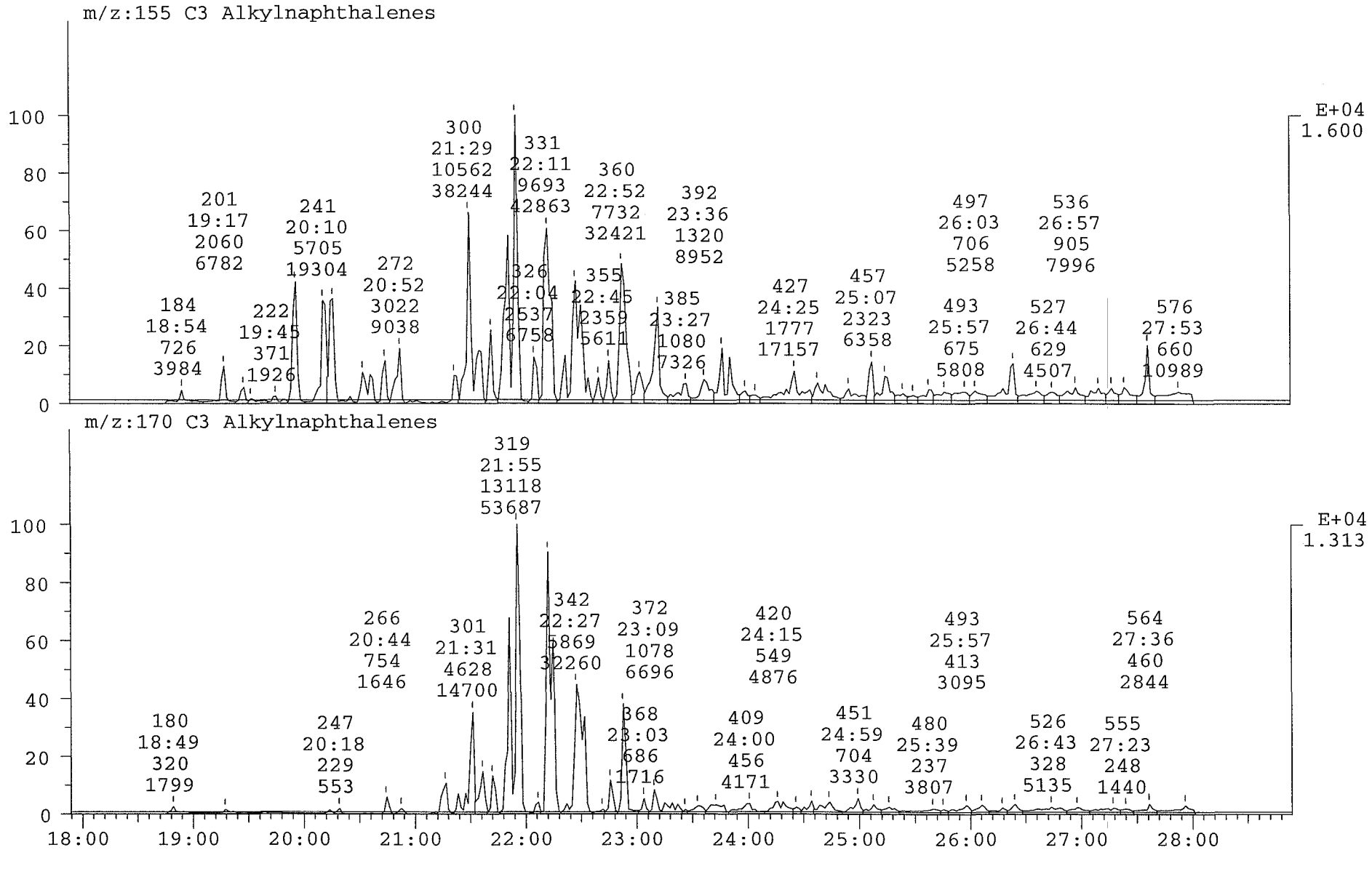
CHRO: an0428 28-APR-06 Elapse: 41:00 1327
Samp: AN060428 Start : 17:52:00 1384
Comm: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : SIM60ML.M
Oper: Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1 > 497 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



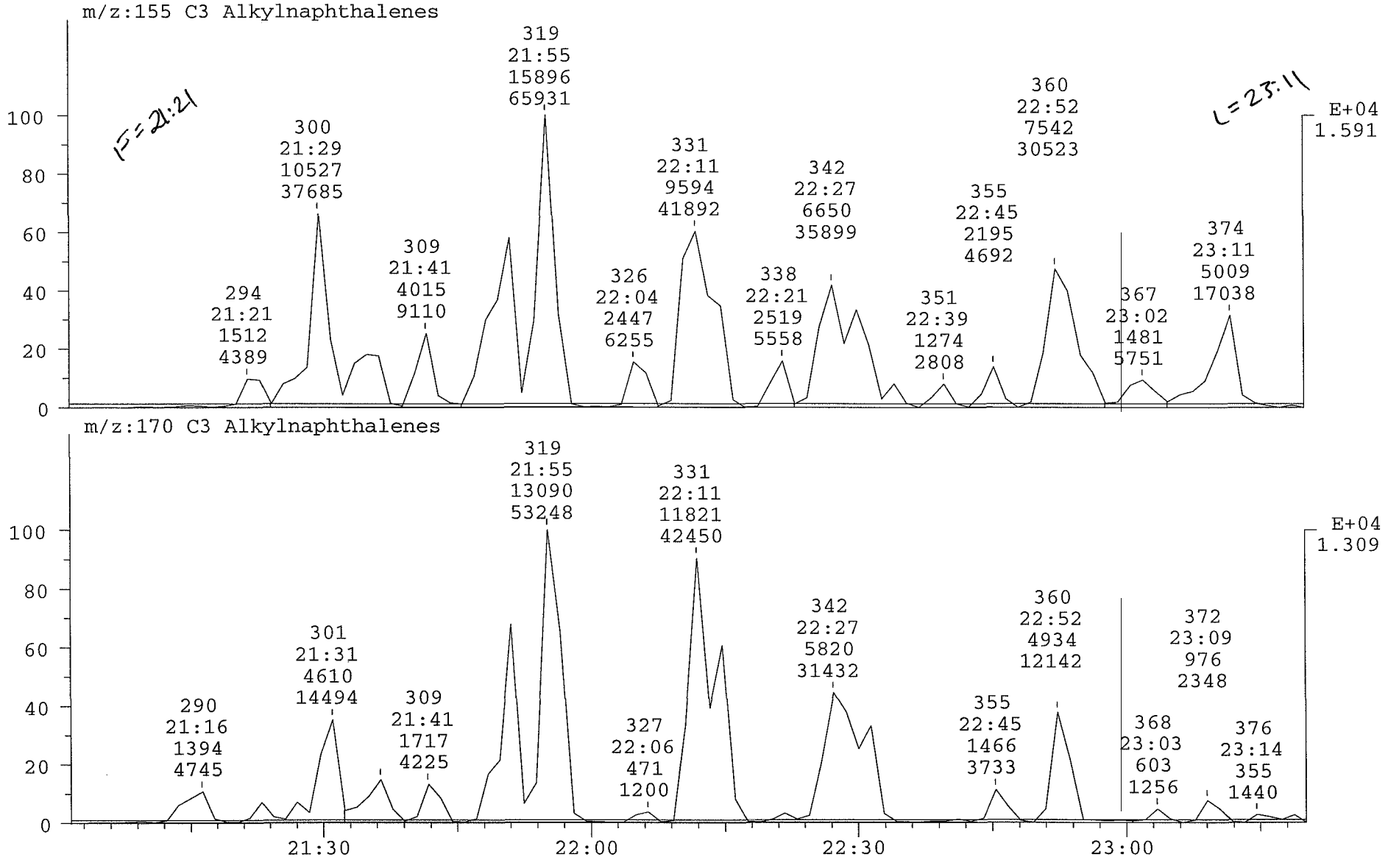
CHRO: an0428 28-APR-06 Elapse: 41:00 1327
Samp: AN060428 Start : 17:52:00 1384
Comm: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : SIM60ML.M
Oper: Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 193 > 281 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: an0428 28-APR-06 Elapse: 41:00 1327
Samp: AN060428 Start : 17:52:00 1384
Comm: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : SIM60ML.M
Oper: Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 129 > 635 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: an0428 28-APR-06 Elapse: 41:00 1327
Samp: AN060428 Start : 17:52:00 1384
Comm: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : SIM60ML.M
Oper: Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 279 > 380 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



4395

STL Knoxville, LRMS-SIM GC/MS Continuing Calibration Review / Narrative Checklist
Method: LRPAH PAHs and Selected SVOCs - KNOX-ID-0016, Revision 4

Analysis Date:	4/27/06	CCAL Batch/ Scan Name:	20060423s1	Instrument:	HrA	ICAL Batch/ Scan Name:	20060426i	Scanned ☐

Review Items	N/A	Yes	No	Why is data reportable?	2nd √
1. Did DFTPP meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of DFTPP?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Is the height of the valley between benzo(e)pyrene and benzo(a)pyrene ≤ 25% of the smaller peak? (m/z 252)		✓			✓
5. Is the height of the valley between anthracene and phenanthrene (m/z 178) ≤ 25% of the smaller peak?		✓			✓
6. Is the signal/noise ratio for all natives and labeled analytes ≥ 10:1 (≥3:1 allowed for confirmation ions for PAH ≥ C16)		✓			✓
7. Is the %D or drift ≤30% for all analytes		✓			✓
8. Are retention times for all analytes ≤ 15 seconds from ICAL average?		✓			✓
9. Are the MID descriptor switchpoints between the RT of the last compound and the first compound of each descriptor?		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, and dated?	✓	✓			✓
11. Have manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				✓
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Elution order checked on isomeric pairs/coeluters?		✓			✓
• 2-chloronaphthalene before 1-chloronaphthalene		✓			✓
• 2-methylnaphthalene before 1- methylnaphthalene (and –d10 isomers)		✓			✓
• phenanthrene before anthracene (and –d10 isomers)		✓			✓
• fluoranthene before pyrene (and –d10 isomers)		✓			✓
• benzo(a)anthracene before chrysene (and –d12 isomers)		✓			✓
• benzo(b)fluoranthene before benzo(k)fluoranthene (and –d12 isomers)		✓			✓
• benzo(e)pyrene before benzo(a)pyrene		✓			✓
• benzo(a)pyrene before perylene (and –d12 isomers)		✓			✓
• Indeno(1,2,3-cd)pyrene before benzo(g,h,I)perylene (and –d12 isomers)		✓			✓
14. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				✓
15. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, MID descriptor, quan report, chromatogram and manual integrations.		✓			✓
16.					

Analyst:	Date: 4/27/06	2nd Level Reviewer : MK	Date: 4/27/06
Comments:		**Comments:**	

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT H2A RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
4.26.06	~~17:10~~ 17:39	DW	2904:28	dfy04265	OK	—	tune		DFTPP Tune
4.26.06	~~17:24~~ 17:53	DW	MeCl2	rinse10	OK	—	QC		flush
4.26.06	~~17:39~~ 18:08	DW	"	rinse11	OK	—	QC		"
4.26.06	~~17:53~~ 18:23	DW	"	rinse12	OK	—	QC		"
4.26.06	~~18:08~~ 18:49	DW	3377:01_1	y060426i1	OK	—	ICAL		PAH ICAL-1
4.26.06	20:28	DW	3377:01_2	y060426i2	OK	—	ICAL		PAH ICAL-2
4.26.06	21:18	DW	3377:01_3	y060426i3	OK	—	ICAL		PAH ICAL-3
4.26.06	22:08	DW	3377:01_4	y060426i4	OK	—	ICAL		PAH ICAL-4
4.26.06	22:58	DW	3377:01_5	y060426i5	OK	—	ICAL		PAH ICAL-5
4.26.06	23:48	DW	3377:01_6	y060426i6	OK	—	ICAL		PAH ICAL-6
4.26.06	00:38	DW	3377:01_7	y060426i7	OK	—	ICAL		PAH ICAL-7
4.27.06	01:25	DW	MeCl2	rinse13	OK	—	QC		flush
4.27.06	01:39	DW	"	rinse14	OK	—	QC		"
4.27.06	01:54	DW	"	rinse15	OK	—	QC		"
4.27.06	02:11	DW	2904:29	icv060426	OK	—	ICV		ICAL VER
4.27.06	02:58	DW	MeCl2	rinse16	OK	—	QC		flush
4.27.06	03:16	DW	2904:26	anv060426	OK	—	~~QC~~ WIN		C/2, C/3 AN win
4.27.06	04:03	DW	MeCl2	rinse17	OK	—	QC		flush
4.27.06	04:17	DW	"	rinse18	OK	—	QC		"
4.27.06	04:32	DW	"	rinse19	OK	—	QC		"
4.27.06	12:58	DW	2904:28	dfy04273	OK	—	tune		DFTPP tune
4.27.06	13:15	DW	3377:01_4	y060427s1	OK	—	ver		PAH ver.
4.27.06	14:02	DW	MeCl2	rinse20	OK	—	QC		flush
4.27.06	14:17	DW	"	rinse21	OK	—	QC		"
4.27.06	14:32	DW	"	rinse22	OK	—	QC		"
4.27.06	17:04	DW	H2W5Q1AC	yh2w5qc2	OK	AR2	QC		HLED100000-0600
4.27.06	17:54	DW	H2W5Q1AD	yh2w5qd2	OK	AR2	QC		" -0602
4.27.06	18:42	DW	MeCl2	rinse23	OK	—	QC		flush
4.27.06	18:59	DW	H2W5Q1AA	yh2w5qa2	OK	AR2	QC		HLED100000-0600
4.27.06	19:49	DW	H2H2M1AA	yh2h2m2	OK	AR2	SOM		HLED030241-002
4.27.06	20:38	DW	H2H2W1AA	yh2h2w2	OK	AR2	SOM		" -005
4.27.06	21:28	DW	H2H211AA	yh2h212	OK	AR2	SOM		" -008

Read and Understood by:

_____ Date: _____

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT H2A RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
4.27.06	22:18	DW	H2H231AA	yh2h232	OK	AIR2	SAM		H06D030241-010
4.27.06	23:08	DW	H2H252AA	yh2h252	OK	AIR2	SAM		" -012
4.27.06	23:55	DW	MeCl2	rinse24	OK	—	QC		flush
4.28.06	00:12	DW	H2H271AA	yh2h272	OK	AIR2	SAM		H06D030241-014
4.28.06	01:29	DW	H2H252AA 1/10	yh2h255	*DL	AIR2	SAM		" -012
4.28.06	14:01	DW	2904:28	dfy0428	OK	—	tune		DFTPP tune
4.28.06	14:18	DW	3377:01-4	yh2h0428s1	OK	—	VER		PAH Ver
4.28.06	15:05	DW	MeCl2	rinse28	OK	—	QC		flush
4.28.06	15:22	DW	H2W5Q1AA	yh2w5qba	OK	AIR2	QC		System blank
4.28.06	16:12	DW	H2H252AA 1/10	yh2h256	OK	AIR2	SAM		H06D030241-012
4.28.06	17:52	DW	2904:26	fan0428	OK	—	WIN		C2/C3 alkylnaphthalene WIN
4.28.06	18:39	DW	MeCl2	rinse29	OK	—	QC		flush
4.28.06	18:53	DW	"	rinse30	OK	—	QC		"
4.28.06	19:07	DW	"	rinse31	OK	—	QC		"
4.28.06	19:42	DW	3377:08	ICV0428.2	OK	—	ICV		ICAL verification

Read and Understood by:

_____ Date: _____

STL - Knoxville

IsoCalc Continuing Calibration Report

PAH's by LRMS Extended List

CCAL ID: 17009 - Y060427S1
ICAL Date: 04/26/06
CCAL Filename: y060427s1
Method: YA1 - DXLPAH
CCAL Sample ID: Y060427S1
Instrument: H2A
CCAL Result Dir: /20060427s1/y060427s1.d
Column SN: 695821
CCAL Date/Time: 04/27/06 13:15
Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Analytes	m/z	Std Conc (ng/mL)	CCAL Conc (ng/mL)	ICAL RF	CCAL RF	%D	QC Limit	Valid?
Naphthalene-d8	136	500.0	547.4	1.623	1.778	9.5	30.0	True
Naphthalene	128	500.0	479.9	1.233	1.183	-4.0	30.0	True
2-Methylnaphthalene	142	500.0	481.5	1.270	1.223	-3.7	30.0	True
2-Methylnaphthalene-d10	152	500.0	530.5	1.093	1.160	6.1	30.0	True
1-Methylnaphthalene	142	500.0	485.6	1.358	1.319	-2.9	30.0	True
1-Methylnaphthalene-d10	152	500.0	525.1	0.958	1.006	5.0	30.0	True
Biphenyl	154	500.0	478.7	1.552	1.486	-4.3	30.0	True
2,6-Dimethylnaphthalene	156	500.0	479.4	1.240	1.189	-4.1	30.0	True
2,6-Dimethylnaphthalene-d12	168	500.0	519.0	1.009	1.048	3.8	30.0	True
Acenaphthylene	152	500.0	491.6	1.221	1.201	-1.7	30.0	True
Acenaphthylene-d8	160	500.0	499.8	1.646	1.646	0.0	30.0	True
Acenaphthene	154	500.0	501.4	0.740	0.742	0.3	30.0	True
2,3,5-Trimethylnaphthalene	170	500.0	474.3	1.140	1.081	-5.1	30.0	True
Fluorene d-10	176	500.0	498.8	0.805	0.803	-0.2	30.0	True
Fluorene-C13	172	500.0	503.0	0.752	0.757	0.6	30.0	True
Fluorene	166	500.0	498.2	0.892	0.889	-0.4	30.0	True
Phenanthrene-d10	188	500.0	527.9	0.793	0.837	5.6	30.0	True
Phenanthrene	178	500.0	488.0	1.210	1.181	-2.4	30.0	True
Anthracene-d10	188	500.0	501.8	0.704	0.706	0.4	30.0	True
Anthracene	178	500.0	479.9	1.065	1.022	-4.0	30.0	True
1-Methylphenanthrene	192	500.0	479.8	0.871	0.836	-4.0	30.0	True
Fluoranthene-d10	212	500.0	519.6	0.761	0.791	3.9	30.0	True
Fluoranthene	202	500.0	493.3	1.298	1.281	-1.3	30.0	True
Pyrene	202	500.0	489.3	1.319	1.291	-2.1	30.0	True
Terphenyl-d14	244	500.0	490.8	0.762	0.748	-1.8	30.0	True
Benzo(a)Anthracene-d12	240	500.0	488.9	0.514	0.503	-2.2	30.0	True
Benzo(a)anthracene	228	500.0	501.0	1.385	1.388	0.2	30.0	True
Chrysene-d12	240	500.0	521.6	0.516	0.538	4.3	30.0	True
Chrysene	228	500.0	482.8	1.333	1.288	-3.4	30.0	True
Benzo(b)Fluoranthene-d12	264	500.0	519.6	0.895	0.930	3.9	30.0	True
Benzo(k)Fluoranthene-d12	264	500.0	504.2	1.030	1.039	0.8	30.0	True
Benzo(b)fluoranthene	252	500.0	438.9	1.446	1.269	-12.2	30.0	True
Benzo(k)fluoranthene	252	500.0	550.5	1.093	1.204	10.1	30.0	True
Benzo(e)pyrene	252	500.0	514.9	1.495	1.540	3.0	30.0	True
Benzo(a)Pyrene-d12	264	500.0	495.1	0.776	0.768	-1.0	30.0	True
Benzo(a)pyrene	252	500.0	492.3	1.286	1.266	-1.5	30.0	True
Perylene-d12	264	500.0	497.6	0.936	0.932	-0.5	30.0	True
Perylene	252	500.0	493.7	1.140	1.126	-1.3	30.0	True
Dibenz(ah)Anthracene-d14	292	500.0	525.3	0.402	0.422	5.1	30.0	True
Indeno(1,2,3-cd)pyrene-d12	288	500.0	520.7	0.772	0.804	4.1	30.0	True
Indeno(1,2,3-cd)pyrene	276	500.0	489.5	1.259	1.233	-2.1	30.0	True
Dibenz(a,h)anthracene	278	500.0	488.0	1.961	1.913	-2.4	30.0	True
Benzo(ghi)Perylene-d12	288	500.0	528.8	0.561	0.593	5.8	30.0	True
Benzo(ghi)perylene	276	500.0	489.8	1.639	1.606	-2.0	30.0	True

VNL 4/27/06 4/27/06

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IsoCalc Continuing Calibration Report

PAH's by LRMS Extended List

CCAL ID: 17009 - Y060427S1
ICAL Date: 04/26/06
CCAL Filename: y060427s1
Method: YA1 - DXLPAH
CCAL Sample ID: Y060427S1
Instrument: H2A
CCAL Result Dir: /20060427s1/y060427s1.d
Column SN: 695821
CCAL Date/Time: 04/27/06 13:15
Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Analytes	ICAL RT	CCAL RT	RT Diff	ICAL RRT	CCAL RRT	RRT Diff
Naphthalene-d8	15:57	15:57	0	0.7502	0.7500	0.0002
Naphthalene	16:00	16:00	0	1.0031	1.0031	0.0000
2-Methylnaphthalene	18:03	18:03	0	1.0046	1.0046	0.0000
2-Methylnaphthalene-d10	17:58	17:58	0	0.8448	0.8448	0.0000
1-Methylnaphthalene	18:22	18:22	0	1.0048	1.0046	0.0003
1-Methylnaphthalene-d10	18:17	18:17	0	0.8597	0.8597	0.0000
Biphenyl	19:26	19:26	0	1.0820	1.0816	0.0004
2,6-Dimethylnaphthalene	19:54	19:54	0	1.0059	1.0059	0.0000
2,6-Dimethylnaphthalene-d12	19:47	19:47	0	0.9303	0.9303	0.0000
Acenaphthylene	20:48	20:48	0	1.0017	1.0024	-0.0007
Acenaphthylene-d8	20:46	20:45	-1	0.9764	0.9757	0.0007
Acenaphthene	21:21	21:21	0	1.0282	1.0289	-0.0007
2,3,5-Trimethylnaphthalene	22:28	22:28	0	1.1356	1.1356	0.0000
Fluorene d-10	22:47	22:46	-1	0.8857	0.8853	0.0004
Fluorene-C13	22:52	22:52	0	0.8892	0.8892	0.0000
Fluorene	22:52	22:52	0	0.8892	0.8892	0.0000
Phenanthrene-d10	25:43	25:43	0	0.8567	0.8567	-0.0001
Phenanthrene	25:47	25:46	-1	1.0026	1.0019	0.0006
Anthracene-d10	25:52	25:52	0	0.8617	0.8617	-0.0001
Anthracene	25:54	25:54	0	1.0071	1.0071	0.0000
1-Methylphenanthrene	27:40	27:40	0	1.0758	1.0758	0.0000
Fluoranthene-d10	29:20	29:20	0	0.9772	0.9772	-0.0001
Fluoranthene	29:23	29:23	0	1.0018	1.0017	0.0001
Pyrene	30:05	30:04	-1	1.0253	1.0250	0.0003
Terphenyl-d14	30:30	30:30	0	1.0398	1.0398	0.0000
Benzo(a)Anthracene-d12	33:36	33:36	0	1.1193	1.1194	-0.0001
Benzo(a)anthracene	33:39	33:39	0	1.0017	1.0015	0.0002
Chrysene-d12	33:43	33:43	0	1.1232	1.1233	-0.0001
Chrysene	33:47	33:47	0	1.0020	1.0020	0.0001
Benzo(b)Fluoranthene-d12	36:34	36:34	0	0.9787	0.9790	-0.0004
Benzo(k)Fluoranthene-d12	36:38	36:38	0	0.9806	0.9808	-0.0002
Benzo(b)fluoranthene	36:38	36:38	0	1.0018	1.0018	0.0000
Benzo(k)fluoranthene	36:41	36:41	0	1.0014	1.0014	0.0000
Benzo(e)pyrene	37:26	37:25	-1	0.9977	0.9973	0.0003
Benzo(a)Pyrene-d12	37:31	37:31	0	1.0042	1.0045	-0.0003
Benzo(a)pyrene	37:35	37:35	0	1.0017	1.0018	-0.0001
Perylene-d12	37:45	37:45	0	1.0103	1.0107	-0.0004
Perylene	37:49	37:49	0	1.0019	1.0018	0.0001
Dibenz(ah)Anthracene-d14	41:03	41:03	0	1.0986	1.0991	-0.0004
Indeno(1,2,3-cd)pyrene-d12	41:05	41:05	0	1.0995	1.1000	-0.0004
Indeno(1,2,3-cd)pyrene	41:10	41:10	0	1.0021	1.0020	0.0001
Dibenz(a,h)anthracene	41:10	41:10	0	1.0029	1.0028	0.0001
Benzo(ghi)Perylene-d12	42:04	42:04	0	1.1259	1.1263	-0.0004
Benzo(ghi)perylene	42:11	42:09	-2	1.0028	1.0020	0.0008

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060427S1	Prep Batch		Lot No	
Data File	/20060427s1/y060427s1.d	Prep Date		SDG No	
Analysis ID	90328	Prep Exp Date		Date Received	
Analysis Date	4/27/2006	Matrix	UNKNOWN	Date Sampled	
Analysis Time	13:15	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:57	79735	26304	1.623	500.0	547.443985	109.49	547.443985	0.235
Naphthalene	16:00	94326	31612	1.233	500.0	479.870781	95.97	479.870781	0.463
~~1,4-Dichlorobenzene-d4~~					~~500.0~~			~~ND~~	~~0.000000~~
~~1,4-Dichlorobenzene~~					~~500.0~~			~~ND~~	~~0.000000~~
2-Methylnaphthalene	18:03	63612	22305	1.270	500.0	481.545680	96.31	481.545680	0.212
2-Methylnaphthalene-d10	17:58	52021	18564	1.093	500.0	530.518448	106.10	530.518448	0.291
1-Methylnaphthalene	18:22	59499	23359	1.358	500.0	485.596292	97.12	485.596292	0.205
1-Methylnaphthalene-d10	18:17	45119	18001	0.958	500.0	525.109297	105.02	525.109297	0.332
~~1-Chloronaphthalene~~					~~500.0~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene~~					~~500.0~~			~~ND~~	~~0.000000~~
~~2-Chloronaphthalene-d7~~					~~500.0~~			~~ND~~	~~0.000000~~
Biphenyl	19:26	77298	28090	1.552	500.0	478.667305	95.73	478.667305	0.521
2,6-Dimethylnaphthalene	19:54	55886	25462	1.240	500.0	479.358597	95.87	479.358597	1.16
2,6-Dimethylnaphthalene-d1	19:47	46996	19952	1.009	500.0	519.030987	103.81	519.030987	0.252
~~C2-Alkylnaphthalenes~~				~~1.240~~		~~479.358597~~		~~479.358597~~	~~0.881~~
Acenaphthylene	20:48	88639	39695	1.221	500.0	491.553608	98.31	491.553608	0.199
Acenaphthylene-d8	20:45	73828	25677	1.646	500.0	499.832874	99.97	499.832874	0.116
Acenaphthene-d10	21:16	44857	19651	1.000	500.0	500.000000	100.00	500.000000	0.191
Acenaphthene	21:21	54749	23195	0.740	500.0	501.380544	100.28	501.380544	0.790
2,3,5-Trimethylnaphthalene	22:28	50815	21670	1.140	500.0	474.311967	94.86	474.311967	0.220
~~C3-Alkylnaphthalenes~~				~~1.140~~		~~474.311967~~		~~474.311967~~	~~0.167~~
Fluorene d-10	22:46	61915	25498	0.805	500.0	498.777451	99.76	498.777451	0.115
Fluorene-C13	22:52	58374	27158	0.752	500.0	502.950151	100.59	502.950151	0.123
Fluorene	22:52	68553	29011	0.892	500.0	498.162572	99.63	498.162572	0.207
Phenanthrene-d10	25:43	77142	27059	0.793	500.0	527.931888	105.59	527.931888	0.156
Phenanthrene	25:46	91104	35362	1.210	500.0	487.952705	97.59	487.952705	0.153
Anthracene-d10	25:52	65095	28627	0.704	500.0	501.826556	100.37	501.826556	0.176
Anthracene	25:54	78823	35927	1.065	500.0	479.877975	95.98	479.877975	0.174
1-Methylphenanthrene	27:40	64453	24811	0.871	500.0	479.776782	95.96	479.776782	0.318
Fluoranthene-d10	29:20	72921	33755	0.761	500.0	519.573671	103.91	519.573671	0.203
Fluoranthene	29:23	93388	42926	1.298	500.0	493.282797	98.66	493.282797	0.143
Pyrene-d10	30:01	92156	40398	1.000	500.0	500.000000	100.00	500.000000	0.155
Pyrene	30:04	94121	41373	1.319	500.0	489.319187	97.86	489.319187	0.140
Terphenyl-d14	30:30	54519	23837	0.762	500.0	490.848722	98.17	490.848722	0.0972
Benzo(a)Anthracene-d12	33:36	46324	18834	0.514	500.0	488.889649	97.78	488.889649	0.241
Benzo(a)anthracene	33:39	64281	29425	1.385	500.0	501.043049	100.21	501.043049	0.192
Chrysene-d12	33:43	49611	20621	0.516	500.0	521.618485	104.32	521.618485	0.240
Chrysene	33:47	63877	30224	1.333	500.0	482.814511	96.56	482.814511	0.182
Benzo(b)Fluoranthene-d12	36:34	42069	18435	0.895	500.0	519.619805	103.92	519.619805	0.878
Benzo(k)Fluoranthene-d12	36:38	47012	19513	1.030	500.0	504.236473	100.85	504.236473	0.763
Benzo(b)fluoranthene	36:38	53375	20881	1.446	500.0	438.855122	87.77	438.855122	0.563
Benzo(k)fluoranthene	36:41	56601	23078	1.093	500.0	550.529891	110.11	550.529891	0.703
Benzo(e)pyrene-d12	37:21	45250	17497	1.000	500.0	500.000000	100.00	500.000000	0.786
Benzo(e)pyrene	37:25	53541	20263	1.495	500.0	514.948819	102.99	514.948819	0.743
Benzo(a)Pyrene-d12	37:31	34768	13500	0.776	500.0	495.051692	99.01	495.051692	1.01
Benzo(a)pyrene	37:35	44018	16318	1.286	500.0	492.321631	98.46	492.321631	0.864
Perylene-d12	37:45	42163	15931	0.936	500.0	497.620784	99.52	497.620784	0.839
Perylene	37:49	47456	17572	1.140	500.0	493.682332	98.74	493.682332	0.826
~~3-Methylcholanthrene~~					~~500.0~~			~~ND~~	~~0.000000~~

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IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060427S1	Prep Batch		Lot No	
Data File	/20060427s1/y060427s1.d	Prep Date		SDG No	
Analysis ID	90328	Prep Exp Date		Date Received	
Analysis Date	4/27/2006	Matrix	UNKNOWN	Date Sampled	
Analysis Time	13:15	Initial Wt/Vol		Lims Test Code	
Anal Exp Date		Extract Vol		Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:03	19095	4743	0.402	500.0	525.262893	105.05	525.262893	0.889
Indeno(1,2,3-cd)pyrene-d12	41:05	36381	9505	0.772	500.0	520.657480	104.13	520.657480	0.463
Indeno(1,2,3-cd)pyrene	41:10	44852	12769	1.259	500.0	489.544058	97.91	489.544058	0.731
Dibenz(a,h)anthracene	41:10	36538	10454	1.961	500.0	487.991860	97.60	487.991860	1.08
Benzo(ghi)Perylene-d12	42:04	26843	6694	0.561	500.0	528.808952	105.76	528.808952	0.637
Benzo(ghi)perylene	42:09	43104	10788	1.639	500.0	489.813645	97.96	489.813645	0.797
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene					500.0			ND	0.000000

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IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060427S1	Prep Batch		Lot No	
Data File	/20060427s1/y060427s1.	Prep Date		SDG No	
Analysis ID	90328	Prep Exp Date		Date Received	
Analysis Date	04/27/06 13:15	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	30		12				
	Naphthalene	16:00	16:00	0	94326		31612			ABB	
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	15		6				
	Naphthalene-d8	15:57	15:57	0	79735		26304			ABB	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	10		4				
	2-Methylnaphthalene	18:03	18:03	0	63612		22305			AVV	
	1-Methylnaphthalene	18:22	18:22	0	59499		23359			AVB	
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	13		5				
	2-Methylnaphthalene-d10	17:58	17:58	0	52021		18564			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	45119		18001			AVB	
	Acenaphthylene	20:48	20:48	0	88639		39695			ABB	
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	30		12				
	Biphenyl	19:26	19:26	0	77298		28090			ABB	
	Acenaphthene	21:21	21:21	0	54749		23195			ABB	
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	58		23				
	2,6-Dimethylnaphthalene	19:54	19:54	0	55886		25462			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	8		3				
	Acenaphthylene-d8	20:45	20:46	-1	73828		25677			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	8		3				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	8		3				
	Acenaphthene-d10	21:16	21:16	0	44857		19651			ABB	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	10		4				
	Fluorene	22:52	22:52	0	68553		29011			AVB	
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	10		4				
	2,6-Dimethylnaphthalene	19:47	19:47	0	46996		19952			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	10		4				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	10		4				
	2,3,5-Trimethylnaphthal	22:28	22:28	0	50815		21670			ABB	
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	5		2				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060427S1	Prep Batch		Lot No	
Data File	/20060427s1/y060427s1.	Prep Date		SDG No	
Analysis ID	90328	Prep Exp Date		Date Received	
Analysis Date	04/27/06 13:15	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
172					**172.0000**		**172.0000**				
	Fluorene-C13	22:52	22:52	0	58374		27158			AVB	
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	5		2				
	Fluorene d-10	22:46	22:47	-1	61915		25498			ABB	
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene	25:46	25:47	-1	91104		35362			ABV	
	Anthracene	25:54	25:54	0	78823		35927			AVV	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene-d10	25:43	25:43	0	77142		27059			ABV	
	Anthracene-d10	25:52	25:52	0	65095		28627			AVB	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	15		6				
	1-Methylphenanthrene	27:40	27:40	0	64453		24811			ABB	
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	13		5				
	Fluoranthene	29:23	29:23	0	93388		42926			ABV	
	Pyrene	30:04	30:05	-1	94121		41373			ABV	
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	13		5				
	Fluoranthene-d10	29:20	29:20	0	72921		33755			ABV	
	Pyrene-d10	30:01	30:01	0	92156		40398			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	10		4				
	Benzo(a)anthracene	33:39	33:39	0	64281		29425			ABV	
	Chrysene	33:47	33:47	0	63877		30224			AVB	
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	10		4				
	Benzo(a)Anthracene-d12	33:36	33:36	0	46324		18834			ABV	
	Chrysene-d12	33:43	33:43	0	49611		20621			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	5		2				
	Terphenyl-d14	30:30	30:30	0	54519		23837			ABB	
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	30		12				
	Benzo(b)fluoranthene	36:38	36:38	0	53375		20881			ABV	
	Benzo(k)fluoranthene	36:41	36:41	0	56601		23078			AVB	
	Benzo(e)pyrene	37:25	37:26	-1	53541		20263			ABV	
	Benzo(a)pyrene	37:35	37:35	0	44018		16318			AVV	
	Unidentified	37:44	00:00	0	385		145			AVV	
	Perylene	37:49	37:49	0	47456		17572			AVB	
	Unidentified	38:13	00:00	0	271		60			AVV	

Notes:
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STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	Y060427S1	Prep Batch		Lot No	
Data File	/20060427s1/y060427s1.	Prep Date		SDG No	
Analysis ID	90328	Prep Exp Date		Date Received	
Analysis Date	04/27/06 13:15	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

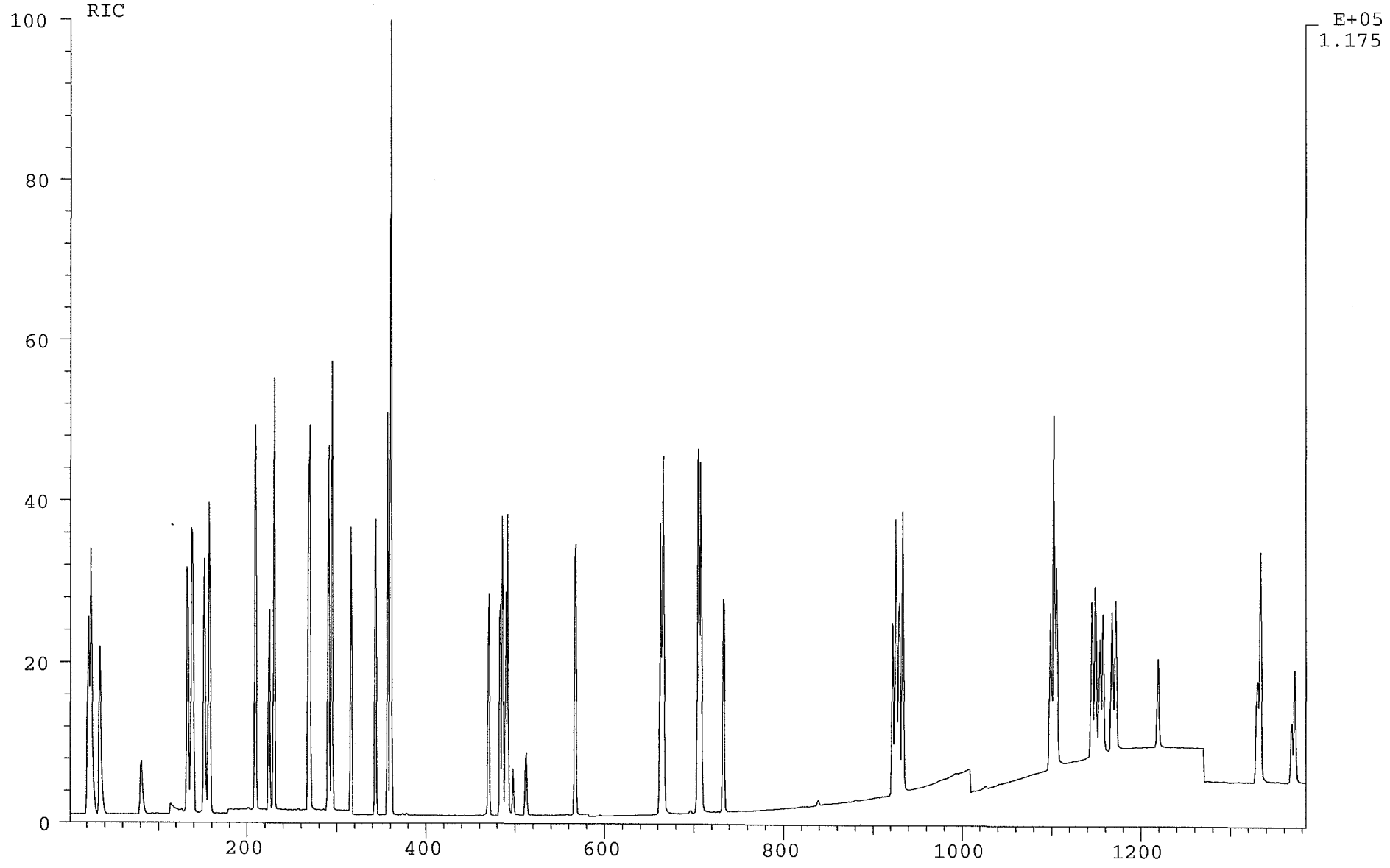
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
252					**252.0000**		**252.0000**				
	Unidentified	38:38	00:00	0	6679		2938			ABB	
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	28		11				
	Benzo(b)Fluoranthene-d1	36:34	36:34	0	42069 ✓		18435			ABV	
	Benzo(k)Fluoranthene-d1	36:38	36:38	0	47012 ✓		19513			AVB	
	Benzo(e)pyrene-d12	37:21	37:22	-1	45250 ✓		17497			ABV	
	Benzo(a)Pyrene-d12	37:31	37:31	0	34768 ✓		13500			AVV	
	Perylene-d12	37:45	37:45	0	42163 ✓		15931			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	33		13				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene	41:10	41:10	0	44852 ✓		12769			ABV	
	Benzo(ghi)perylene	42:09	42:11	-2	43104 ✓		10788			ABB	
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	20		8				
	Dibenz(a,h)anthracene	41:10	41:10	0	36538 ✓		10454			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene-	41:05	41:05	0	36381 ✓		9505			ABV	
	Benzo(ghi)Perylene-d12	42:04	42:04	0	26843 ✓		6694			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	13		5				
	Dibenz(ah)Anthracene-d1	41:03	41:03	0	19095 ✓		4743			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	8		3				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	8		3				

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

```
CHRO:  y060427s1                                27-APR-06   Elapse:  15:36.1      1
Samp:  WO=y060427s1 Meth=YA1 Dil=1                          Start :  13:15:00   1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                     Study :  PAH Ver
Oper:  JMN           Client:  STL Knoxville                 Inlet :
Peak:  100.00  ppm     Label wndw:   1 > 1384               Masses:  0 > 308
Area:  5, 0.50, 0      Baseline  :   100, 3                 Label :  0, 0.0
Disp:  Height  Area
```

Int/Calc: g 4/27/06
QC VMIC 4/27/06



4406

Data File: /var/chem/gcms/my.i/y060427s1.b/dfy04273.d

Date : 27-APR-2006 12:58

Client ID: Tune

Instrument: my.i

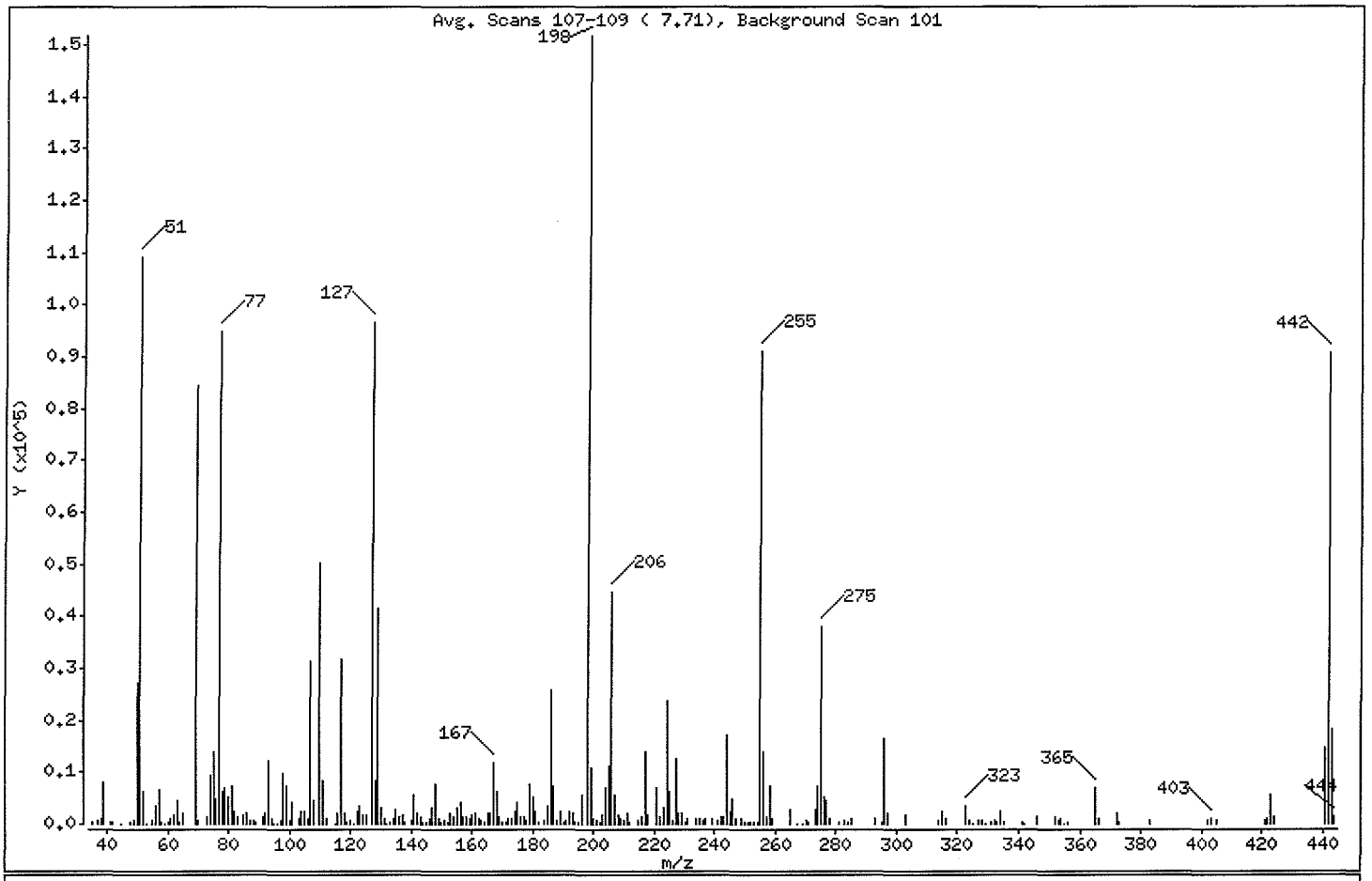
Sample Info: Y060427S1,DFTPP,

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	71.87
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	55.57
70	Less than 2.00% of mass 69	0.45 (0.81)
127	25.00 - 75.00% of mass 198	63.69
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.04
275	10.00 - 30.00% of mass 198	25.04
365	Greater than 0.75% of mass 198	4.58
441	Present, but less than mass 443	9.67
442	40.00 - 110.00% of mass 198	59.69
443	15.00 - 24.00% of mass 442	11.94 (20.01)

Data File: /var/chem/gcms/my.i/y060427s1.b/dfy04273.d

Date : 27-APR-2006 12:58

Client ID: Tune

Instrument: my.i

Sample Info: Y060427S1,DFTPP,

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy04273.d

Spectrum: Avg. Scans 107-109 (7.71), Background Scan 101

Location of Maximum: 198.00

Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	198	117.00	31872	184.00	732	258.00	7358
37.00	790	118.00	2074	185.00	3651	259.00	1221
38.00	873	119.00	372	186.00	25824	265.00	2669
39.00	7869	120.00	779	187.00	7451	267.00	38
41.00	517	121.00	165	188.00	796	269.00	103
42.00	178	122.00	2423	189.00	2441	270.00	587
45.00	154	123.00	3575	190.00	347	271.00	406
48.00	353	124.00	1639	191.00	826	273.00	2639
49.00	661	125.00	1847	192.00	2327	274.00	7443
50.00	27216	127.00	96704	193.00	2062	275.00	38008
51.00	109120	128.00	8210	194.00	329	276.00	5298
52.00	6199	129.00	41608	195.00	193	277.00	4436
53.00	170	130.00	3273	196.00	5420	278.00	908
55.00	565	131.00	1052	198.00	151808	281.00	396
56.00	3333	132.00	2	199.00	10695	283.00	670
57.00	6500	133.00	471	200.00	1080	284.00	251
58.00	388	134.00	1002	201.00	827	285.00	909
59.00	130	135.00	2938	202.00	231	293.00	962
60.00	354	136.00	1359	203.00	1878	295.00	355
61.00	1027	137.00	1893	204.00	6980	296.00	16279
62.00	1584	138.00	462	205.00	11334	297.00	2243
63.00	4450	140.00	628	206.00	44536	303.00	1724
64.00	521	141.00	5427	207.00	5725	314.00	736
65.00	1996	142.00	1990	208.00	1877	315.00	2337
69.00	84368	143.00	1549	209.00	1211	316.00	908
70.00	687	144.00	182	210.00	772	323.00	3641
73.00	1445	145.00	214	211.00	2110	324.00	791
74.00	9457	146.00	1183	212.00	212	325.00	174
75.00	13813	147.00	3028	215.00	868	327.00	783
76.00	5018	148.00	7547	216.00	1335	328.00	733
77.00	94832	149.00	1194	217.00	14105	329.00	170
78.00	6250	150.00	416	218.00	1690	331.00	253
79.00	6878	151.00	746	221.00	7050	332.00	668
80.00	5099	152.00	468	222.00	1329	333.00	449
81.00	7158	153.00	1989	223.00	3119	334.00	2587

Data File: /var/chem/gcms/my.i/y060427s1.b/dfy04273.d

Date : 27-APR-2006 12:58

Client ID: Tune

Instrument: my.i

Sample Info: Y060427S1,DFTPP,

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy04273.d
Spectrum: Avg. Scans 107-109 (7.71), Background Scan 101
Location of Maximum: 198.00
Number of points: 252

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2281	154.00	1502	224.00	23736	335.00	468
83.00	1253	155.00	3140	225.00	6412	341.00	500
85.00	1600	156.00	4097	226.00	791	342.00	173
86.00	2251	157.00	1230	227.00	12508	346.00	1345
87.00	730	158.00	1492	228.00	1980	352.00	1368
88.00	747	159.00	1051	229.00	2141	353.00	835
89.00	216	160.00	1650	230.00	197	354.00	1054
91.00	1282	161.00	2267	231.00	873	355.00	125
92.00	2108	162.00	896	234.00	916	356.00	419
93.00	12165	163.00	530	235.00	935	365.00	6957
94.00	947	164.00	497	236.00	589	366.00	926
95.00	154	165.00	1967	237.00	1050	372.00	1956
96.00	134	166.00	2159	239.00	931	373.00	390
97.00	703	167.00	11729	241.00	710	383.00	582
98.00	9690	168.00	6195	242.00	1332	402.00	757
99.00	7410	169.00	1224	243.00	1358	403.00	1153
100.00	762	170.00	344	244.00	17152	405.00	731
101.00	4056	171.00	397	245.00	2588	421.00	849
103.00	1161	172.00	920	246.00	4733	422.00	875
104.00	2395	173.00	1184	247.00	956	423.00	5422
105.00	2576	174.00	2301	249.00	935	424.00	1348
106.00	1063	175.00	4018	250.00	193	441.00	14686
107.00	31320	176.00	1382	251.00	473	442.00	90632
108.00	4448	177.00	1551	252.00	193	443.00	18128
110.00	50336	178.00	795	253.00	243	444.00	1559
111.00	8210	179.00	7678	254.00	180		
112.00	1137	180.00	5101	255.00	90992		
115.00	106	181.00	2537	256.00	13839		
116.00	2201	182.00	367	257.00	1341		

Data File: /var/chem/gcms/my.i/y060427s1.b/dfy04273.d

Date : 27-APR-2006 12:58

Client ID: Tune

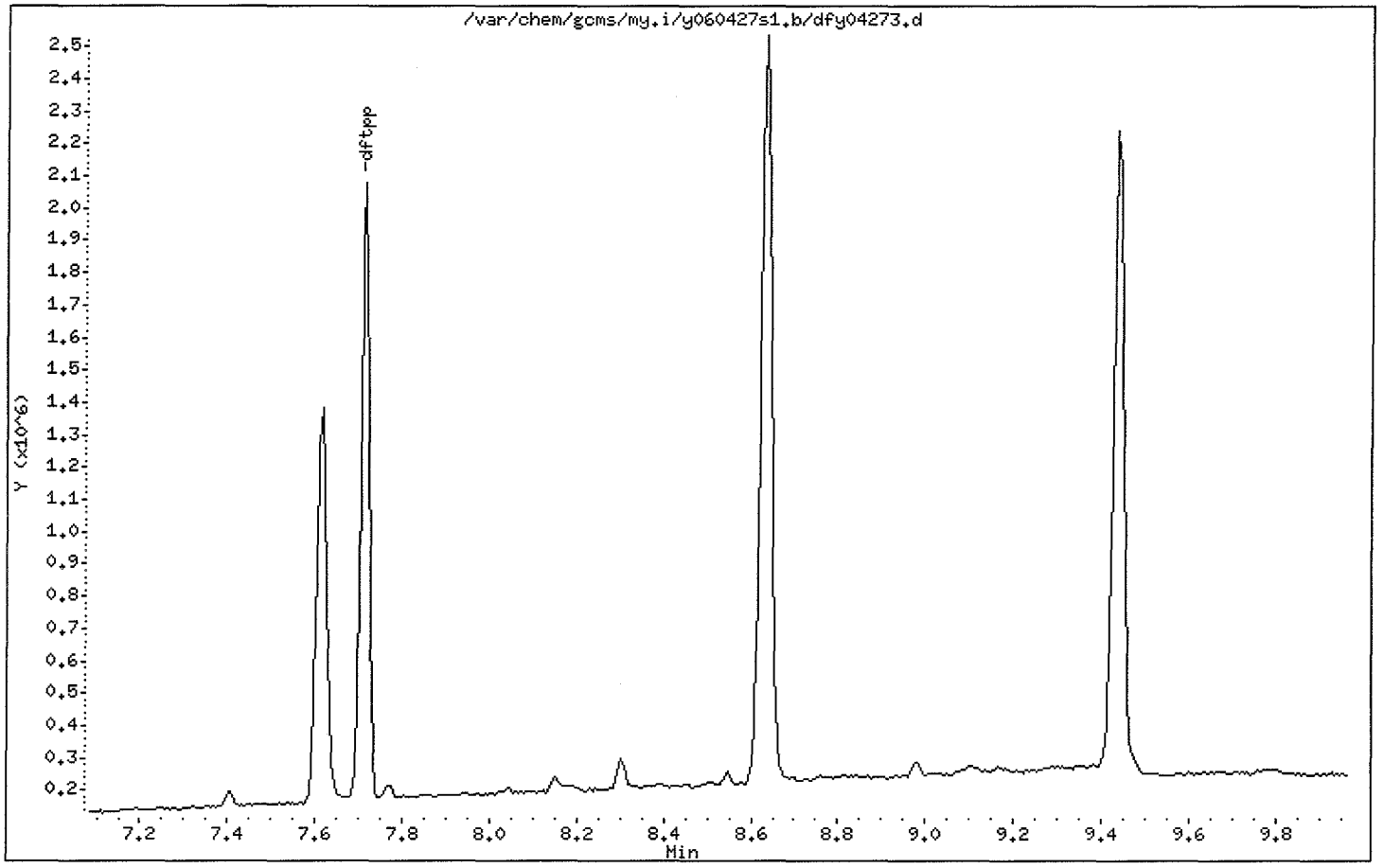
Instrument: my.i

Sample Info: Y060427S1,DFTPP,

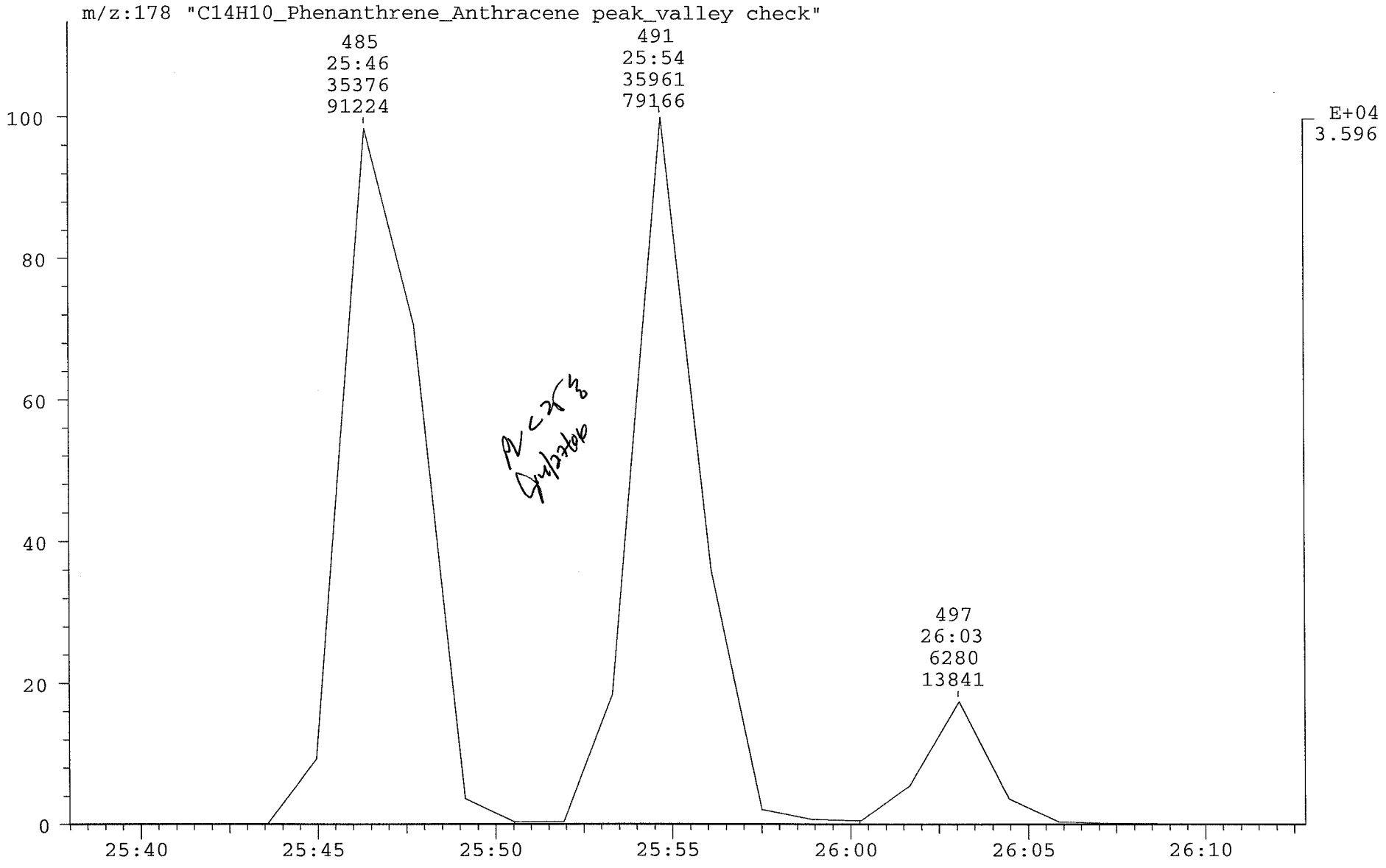
Operator: JMN

Column phase: HP5-MS

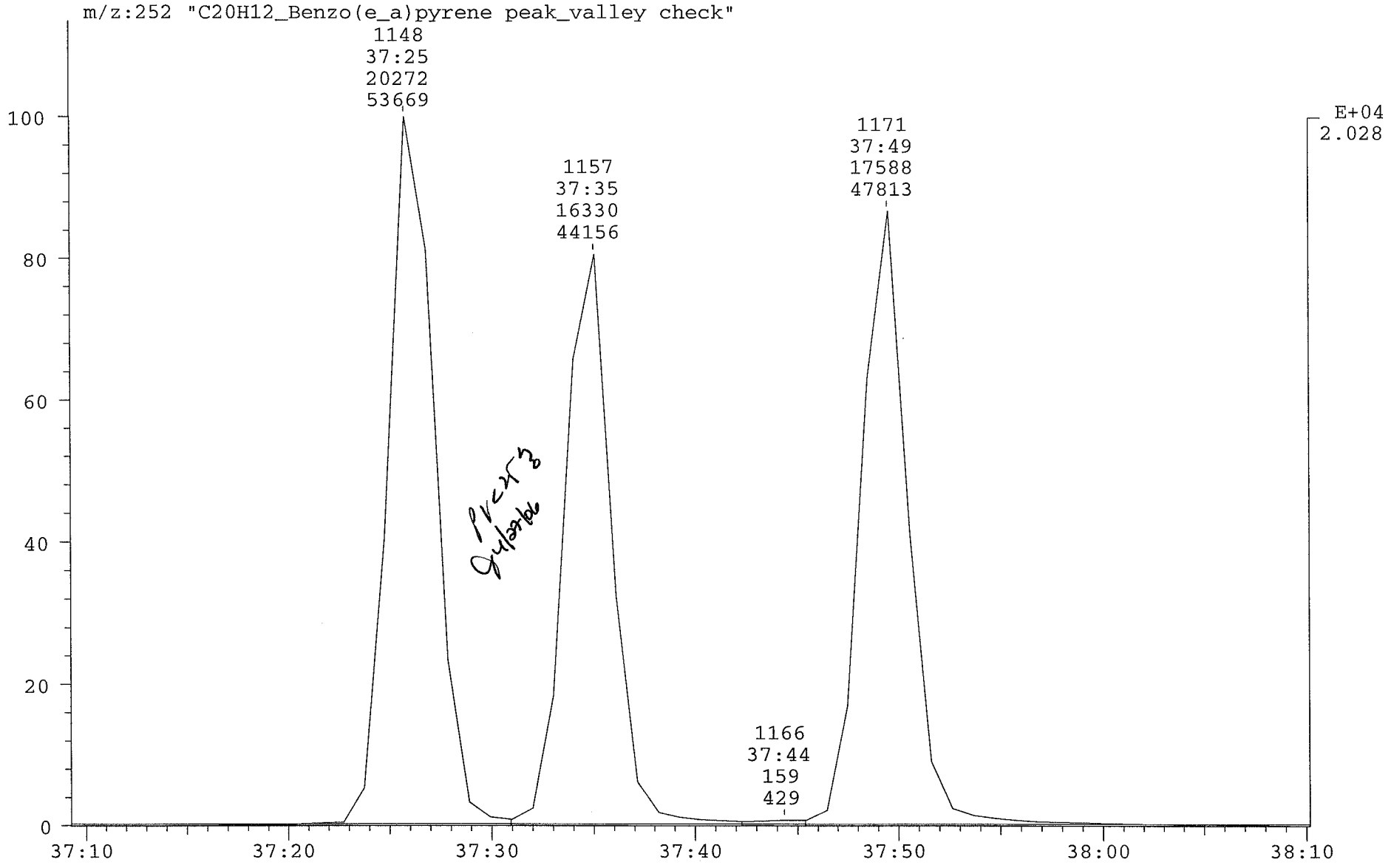
Column diameter: 0.25



CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 479 > 504 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

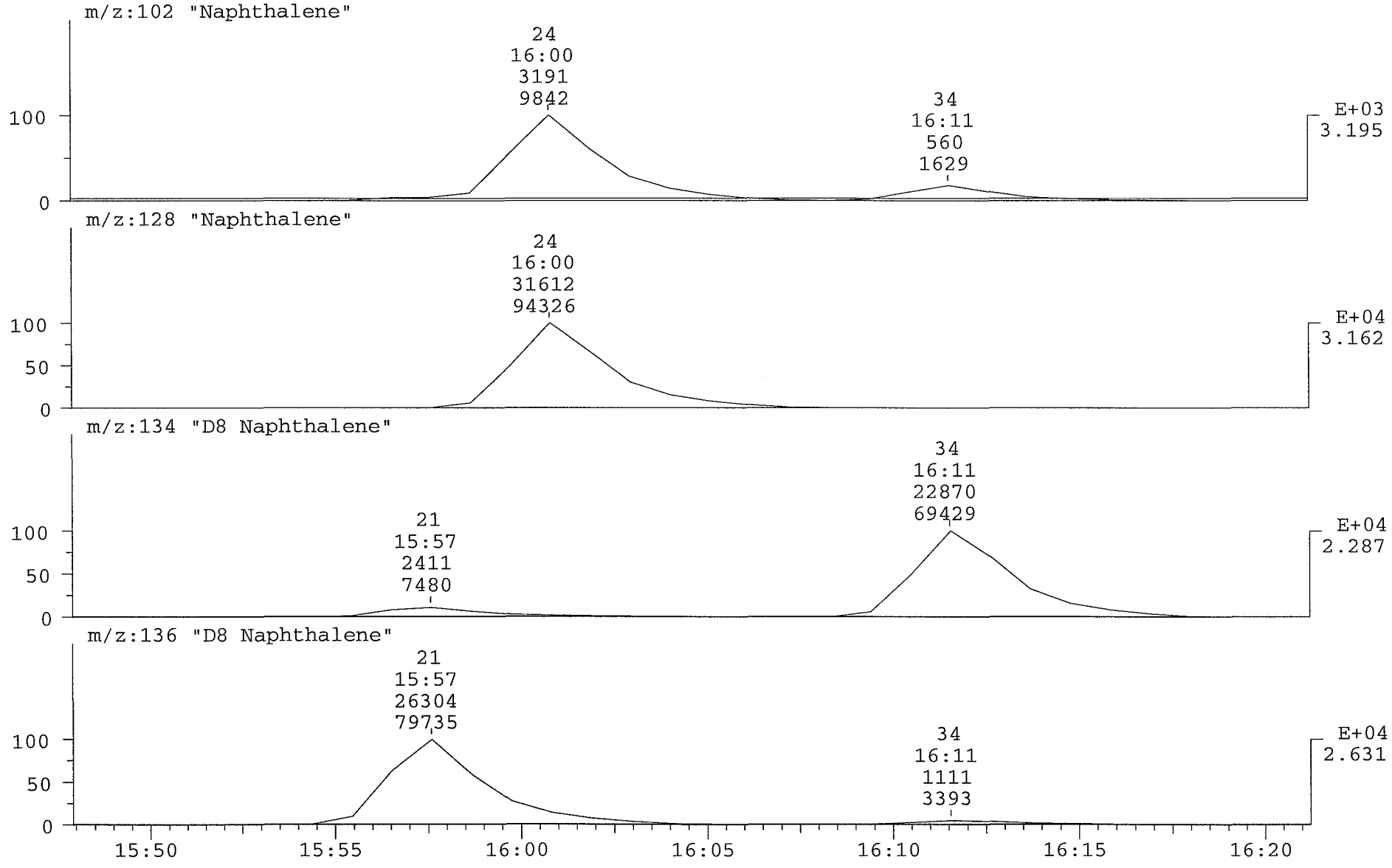


CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1132 > 1191 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

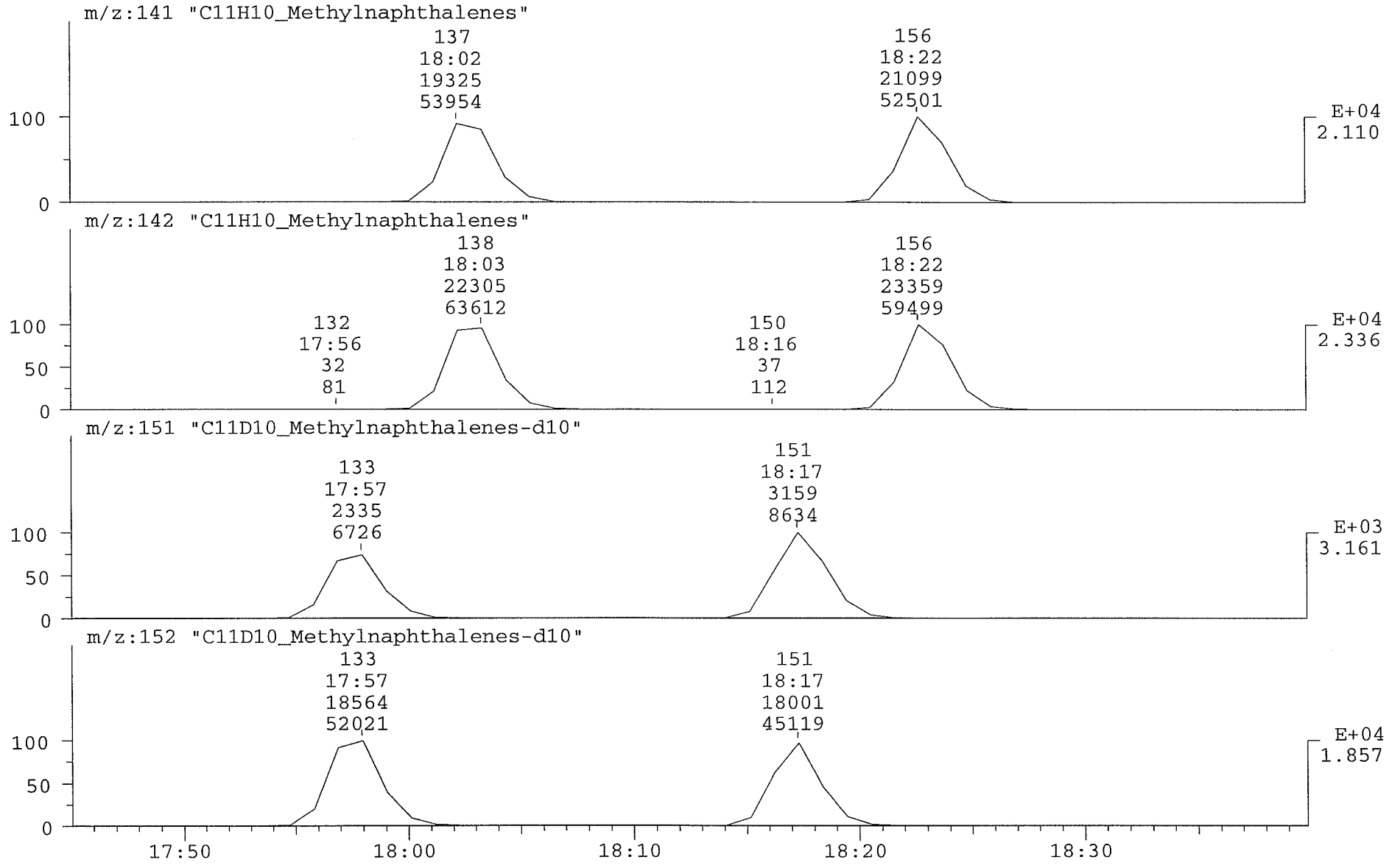


4412

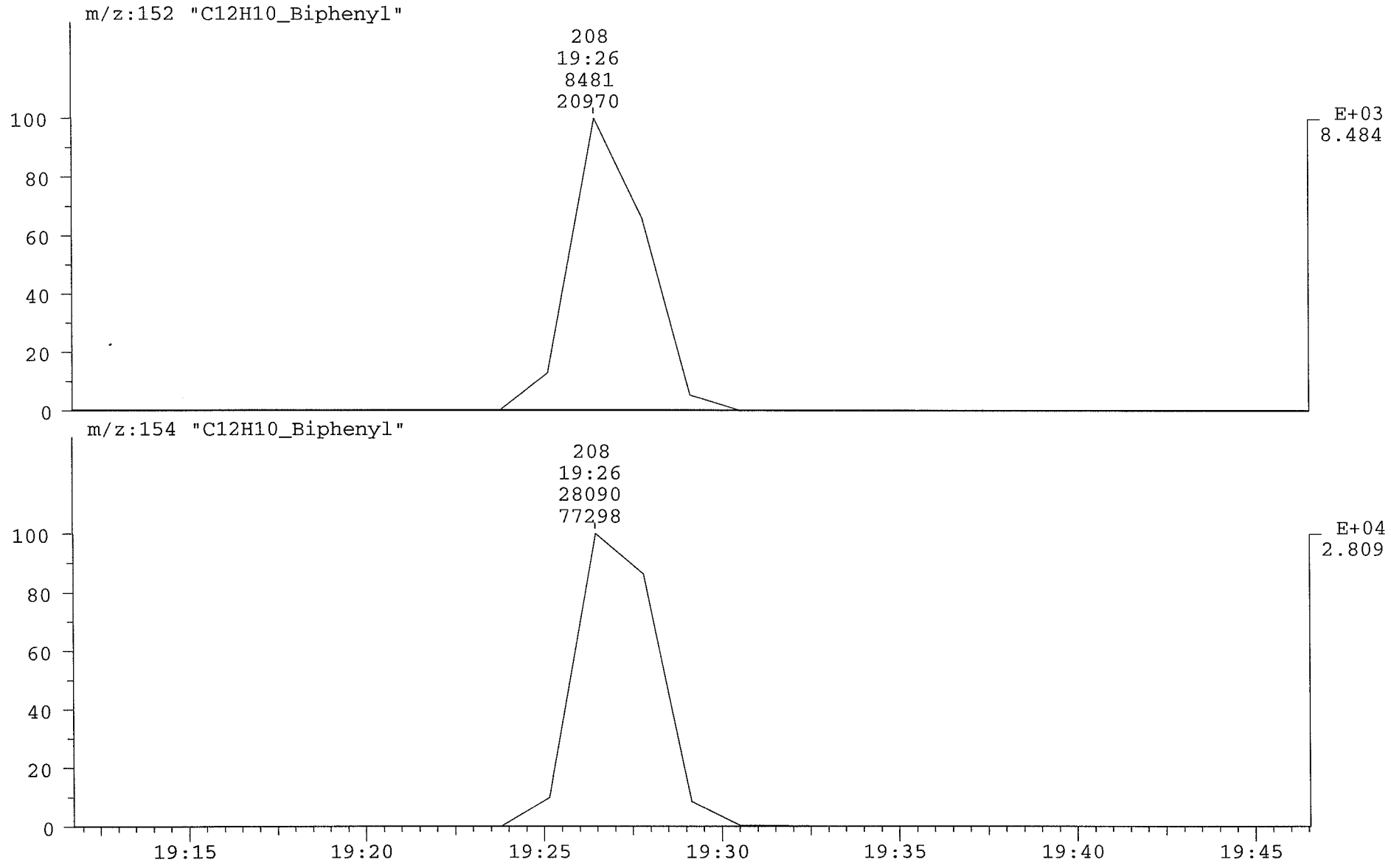
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



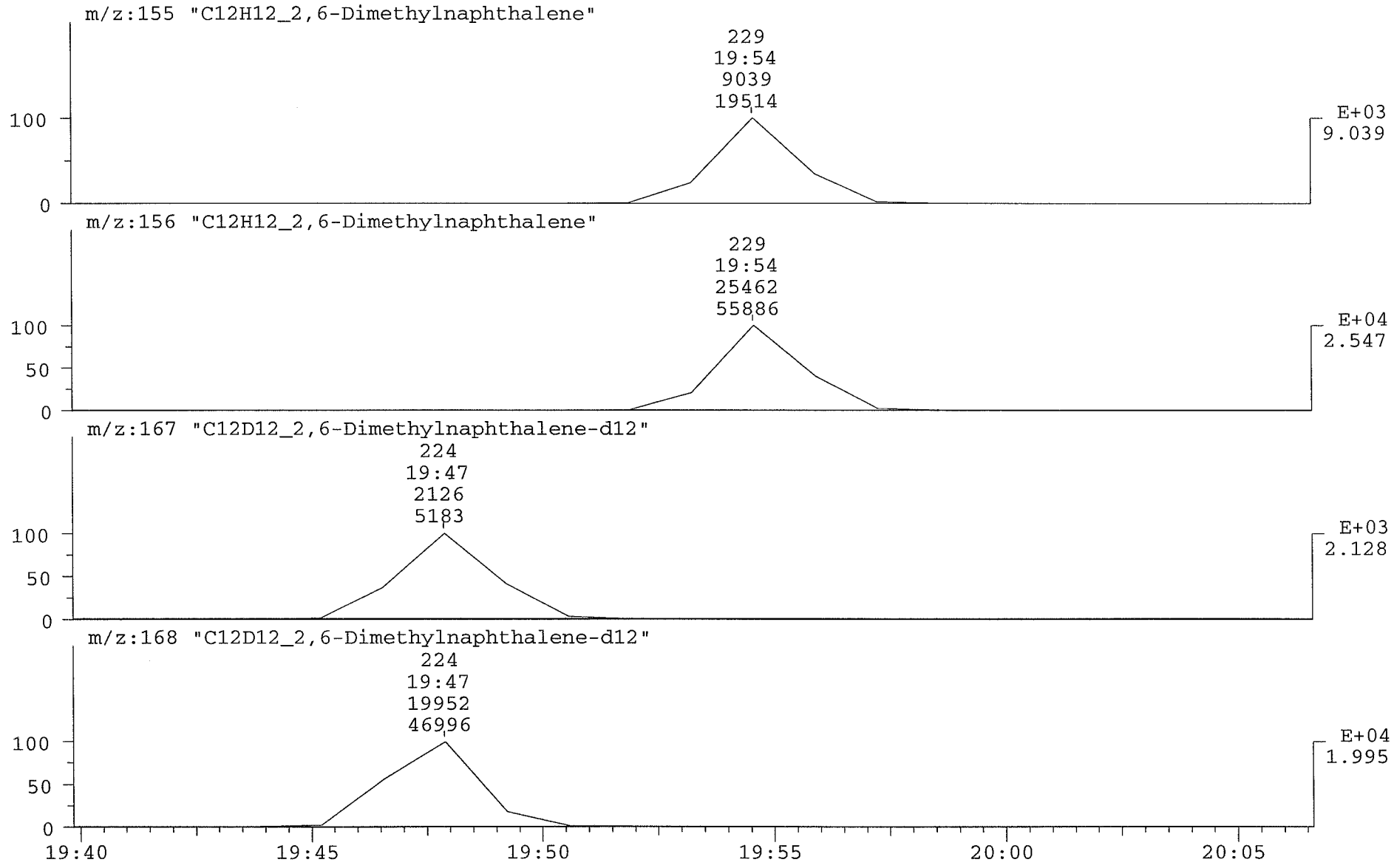
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



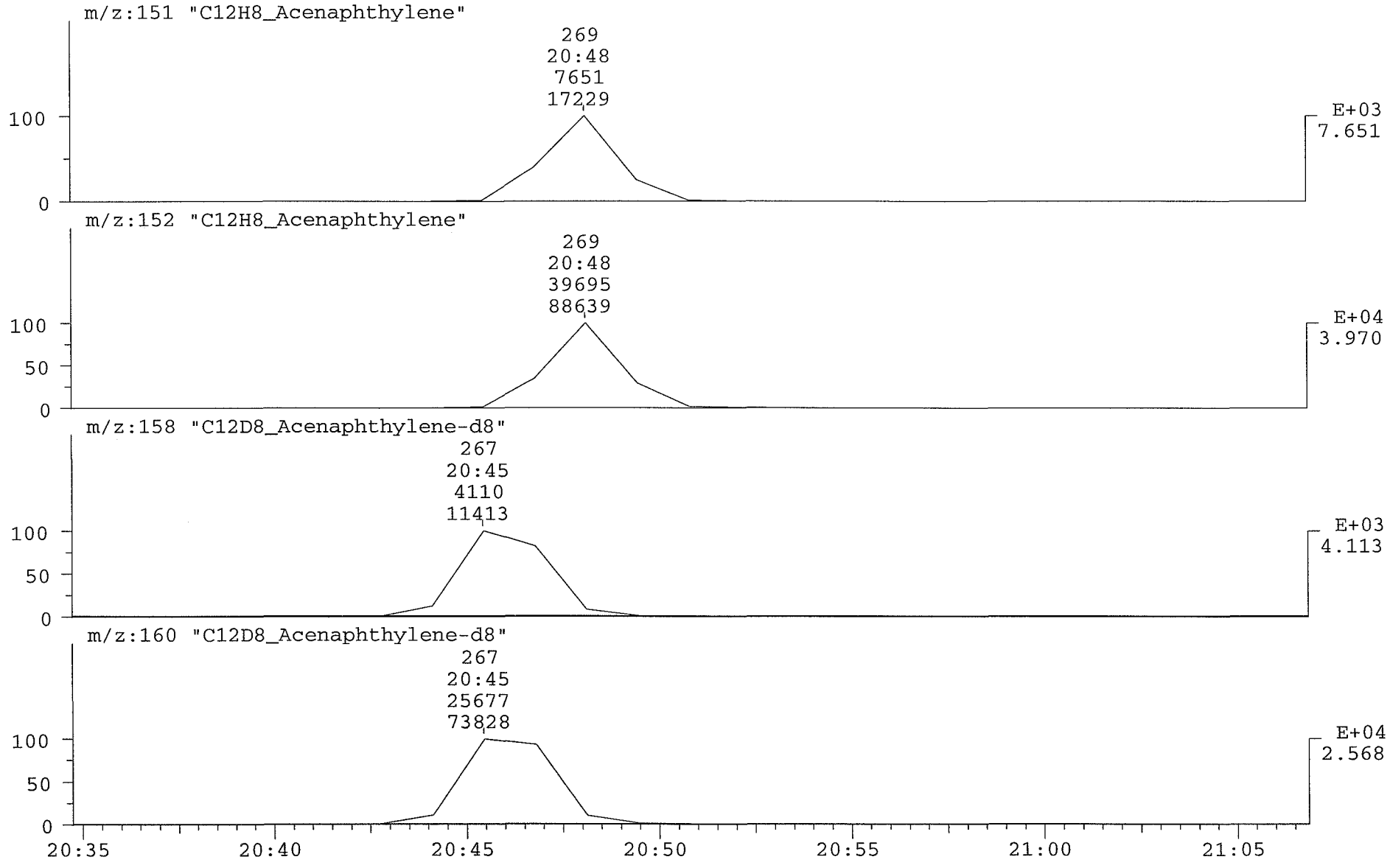
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



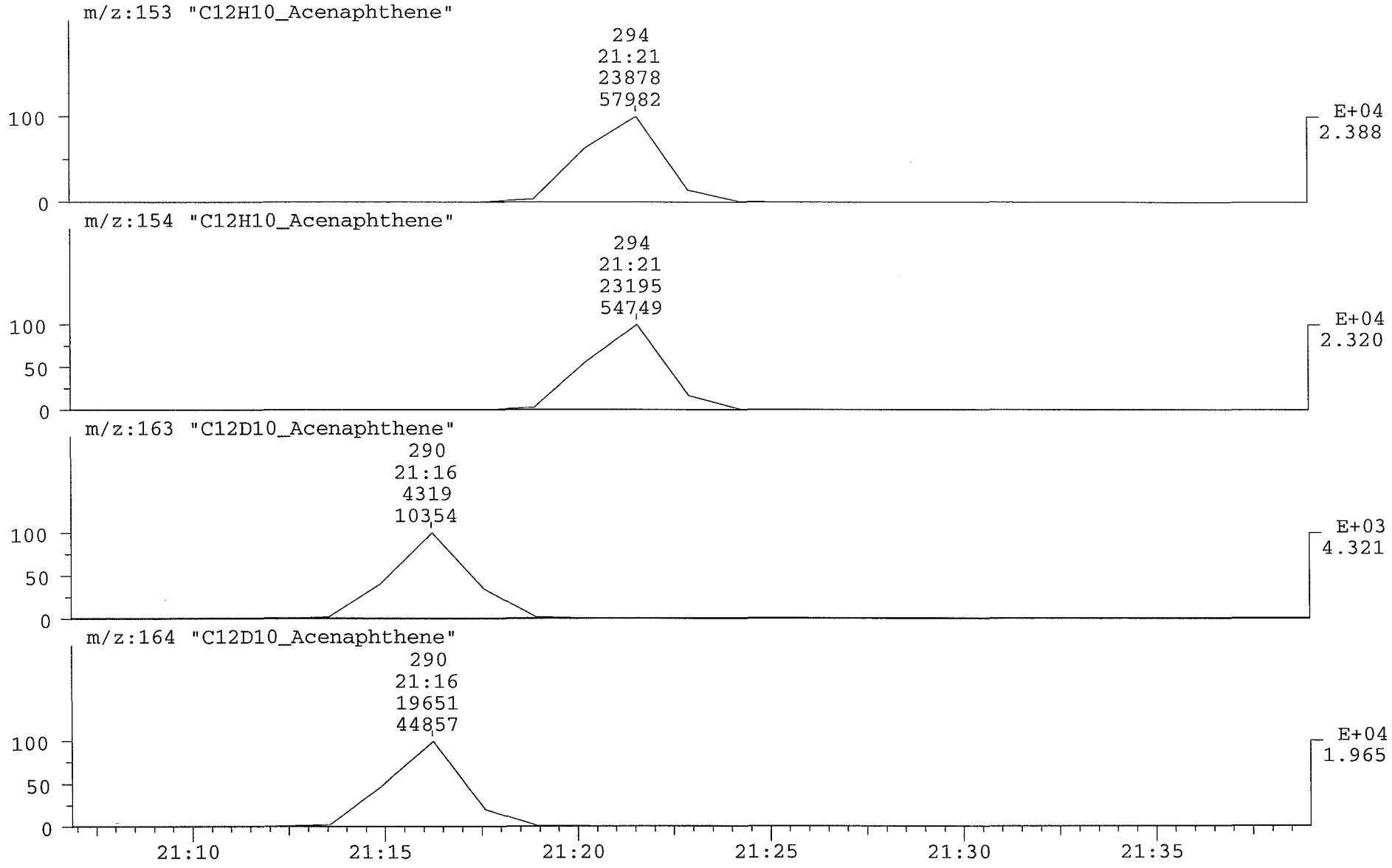
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



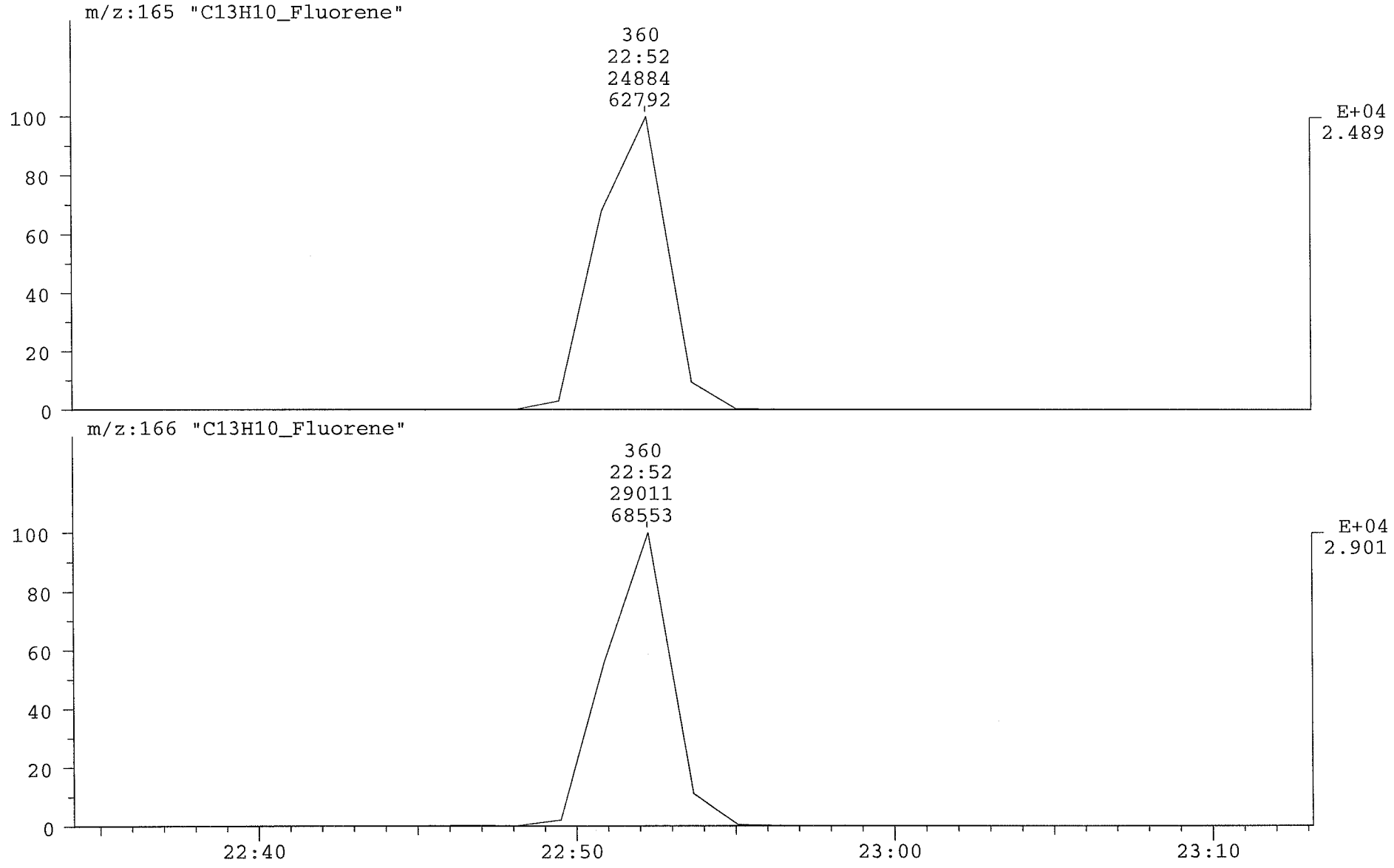
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



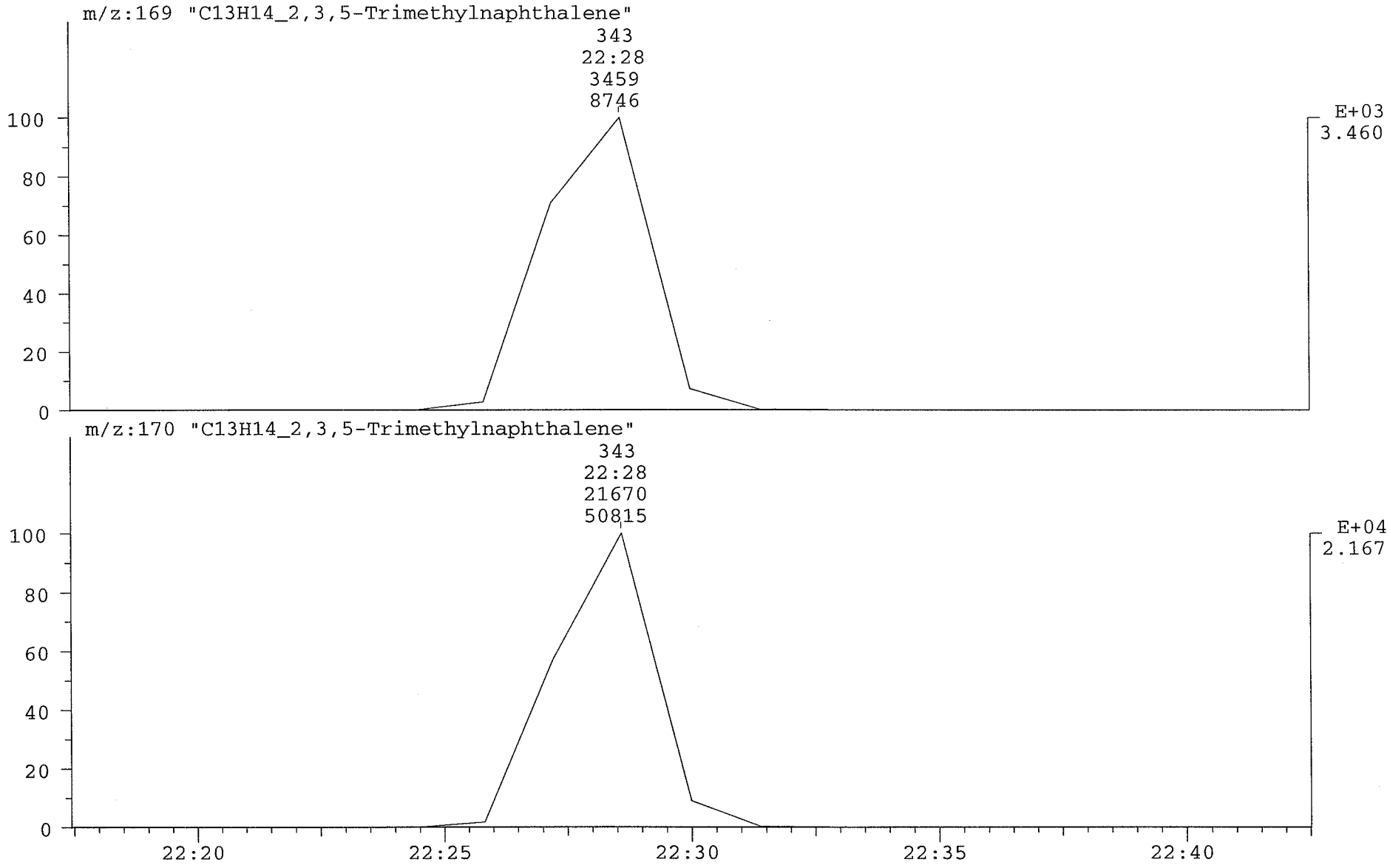
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



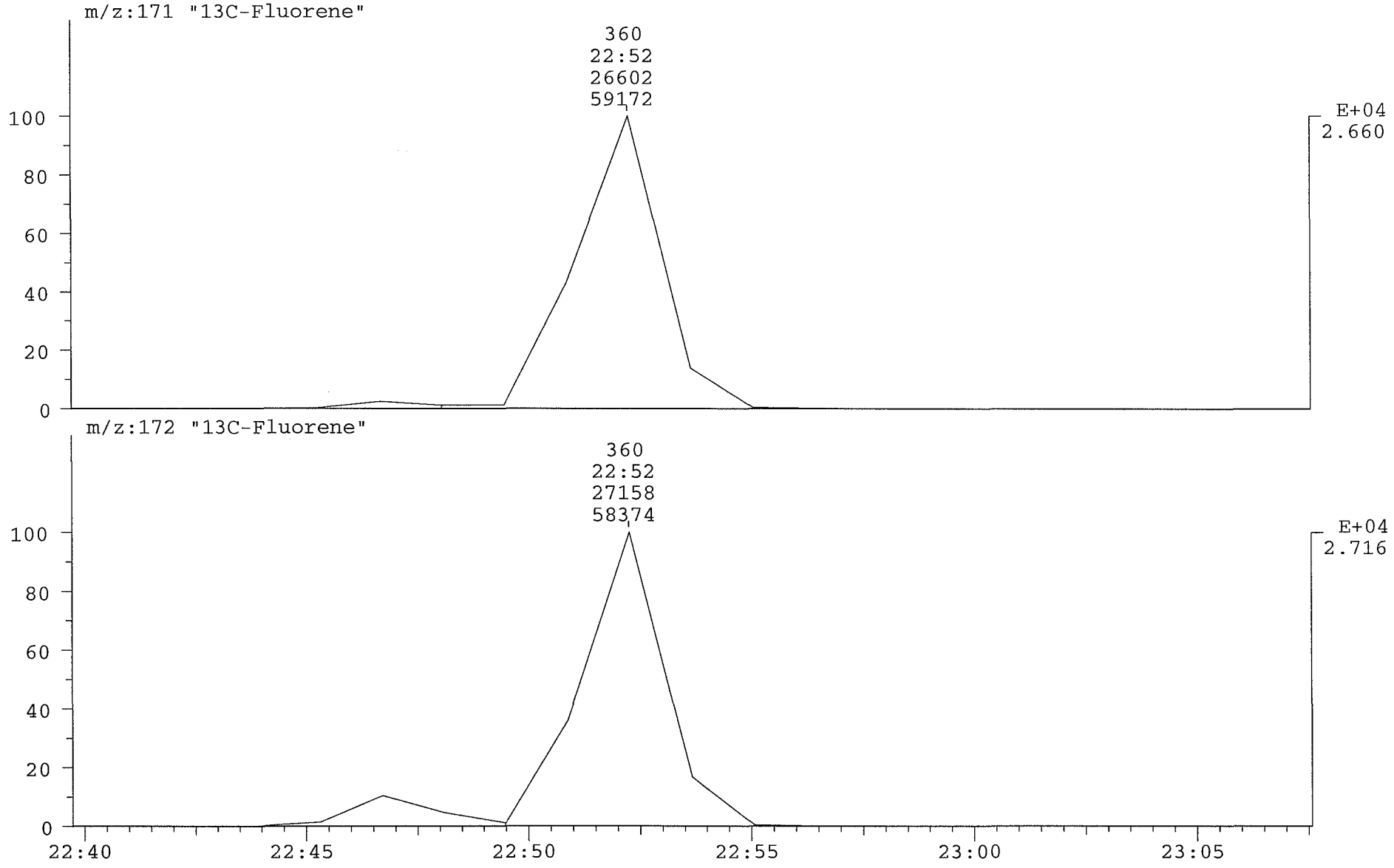
```
CHRO:  y060427s1                              27-APR-06   Elapse:   49:19       1735
Samp:  WO=y060427s1 Meth=YA1 Dil=1                        Start :   13:15:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   347 > 375            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



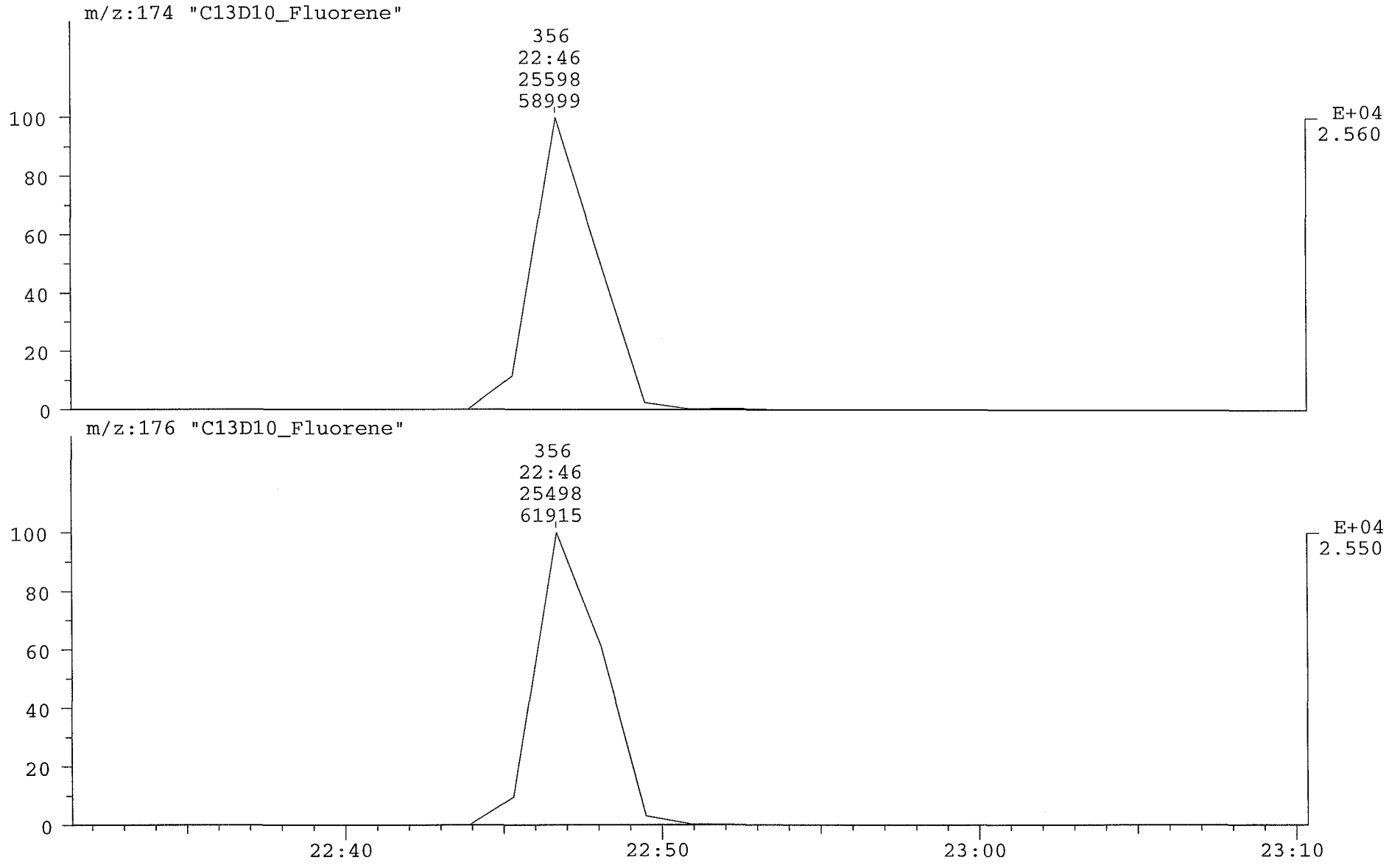
```
CHRO:  y060427s1                              27-APR-06   Elapse:   49:19       1735
Samp:  WO=y060427s1 Meth=YA1 Dil=1                        Start :   13:15:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   335 > 353            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



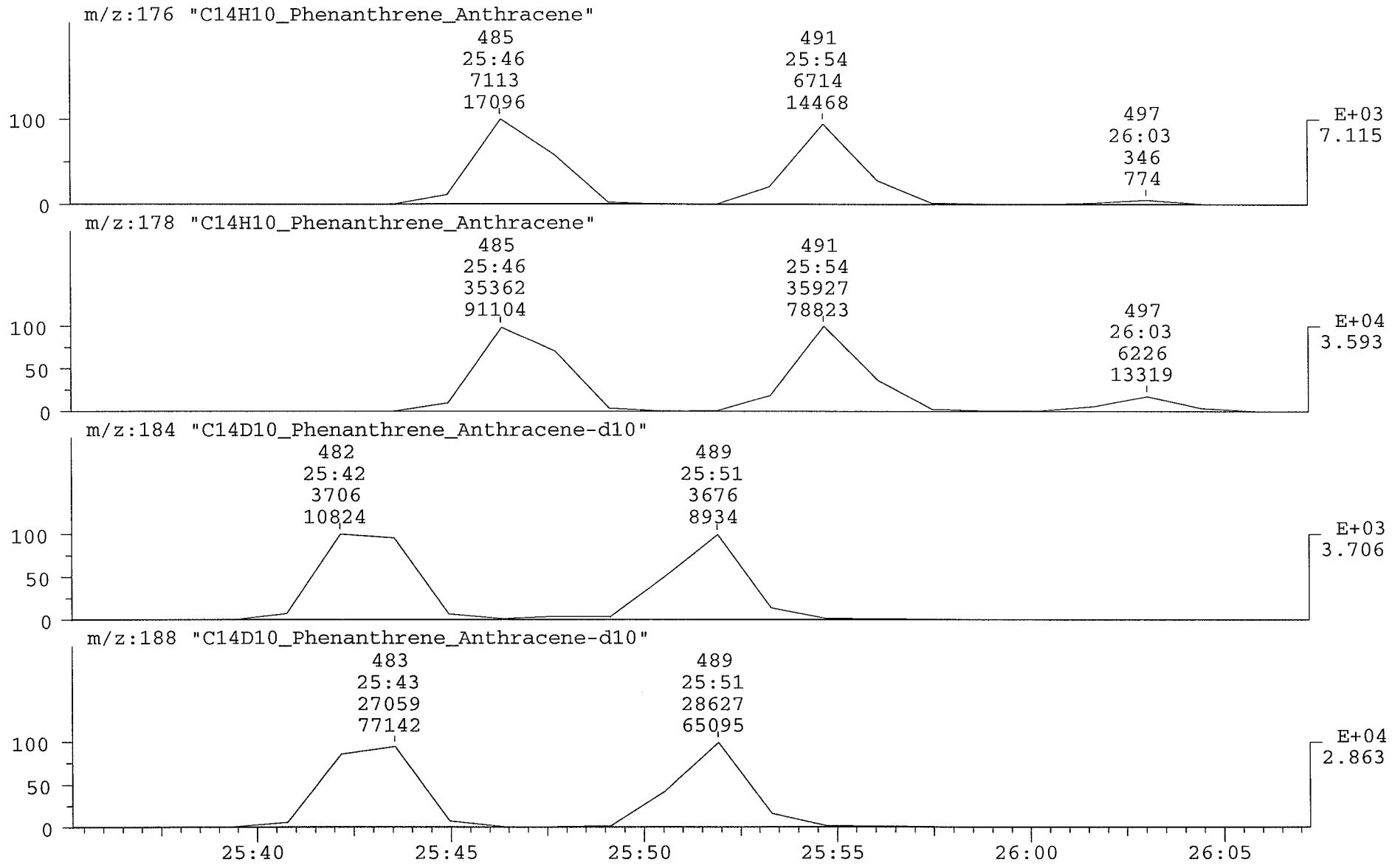
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 351 > 371 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



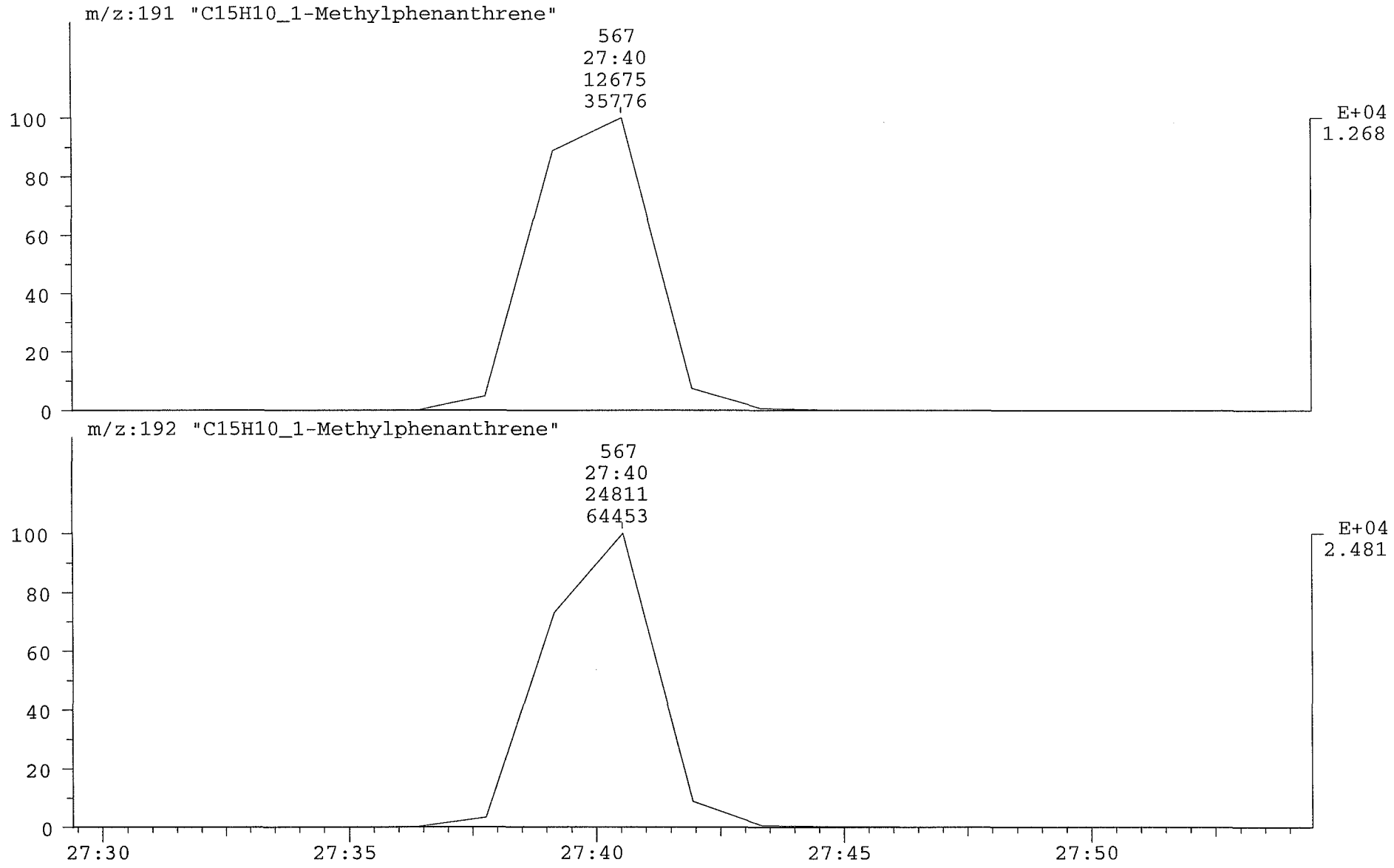
```
CHRO:  y060427s1                              27-APR-06   Elapse:   49:19      1735
Samp:  WO=y060427s1 Meth=YA1 Dil=1                        Start :   13:15:00   1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   345 > 373            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



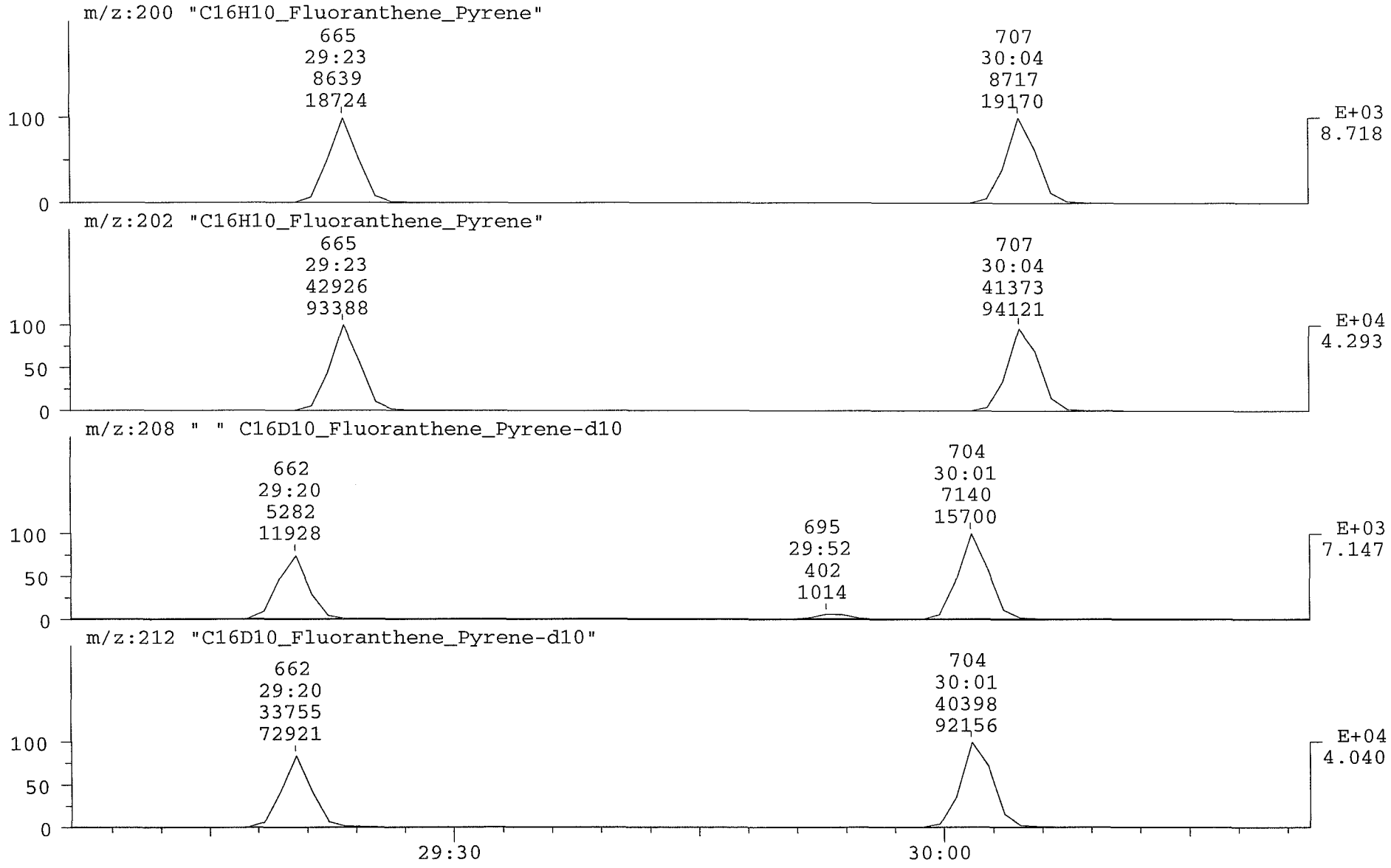
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



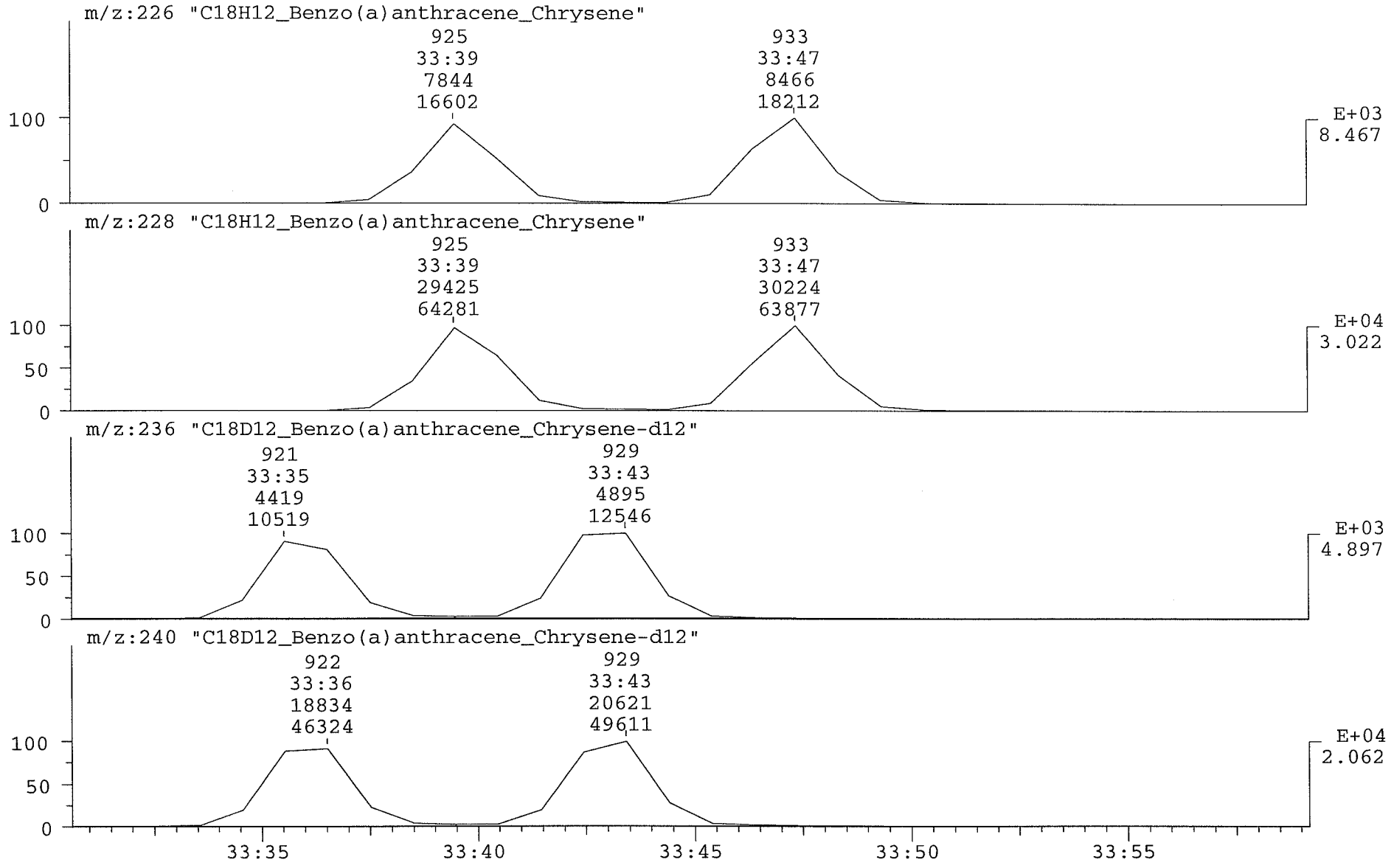
```
CHRO:  y060427s1                              27-APR-06   Elapse:   49:19      1735
Samp:  WO=y060427s1 Meth=YA1 Dil=1                        Start :   13:15:00   1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   559 > 577            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   -2, 3.0
Disp:  Height  Area
```



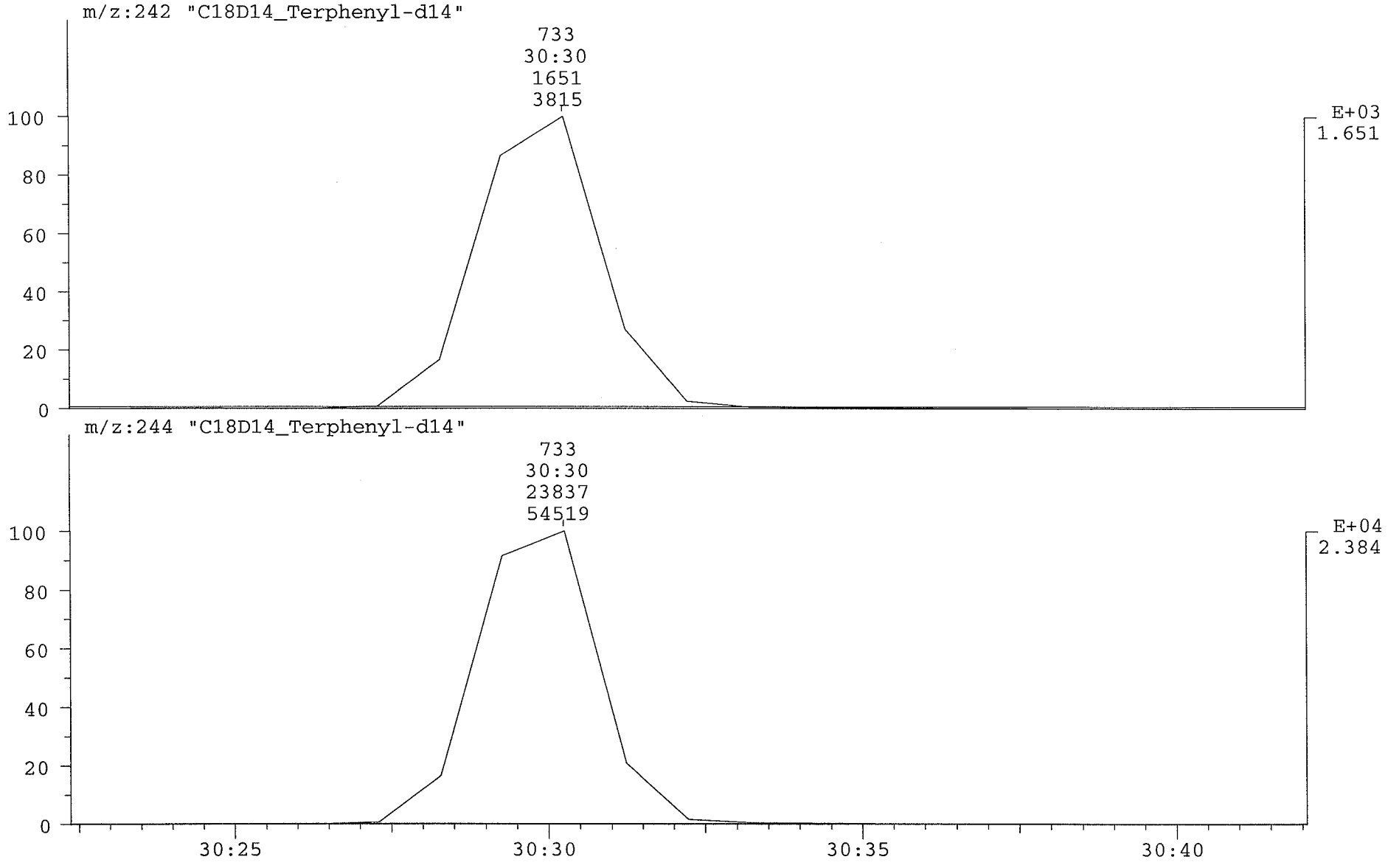
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



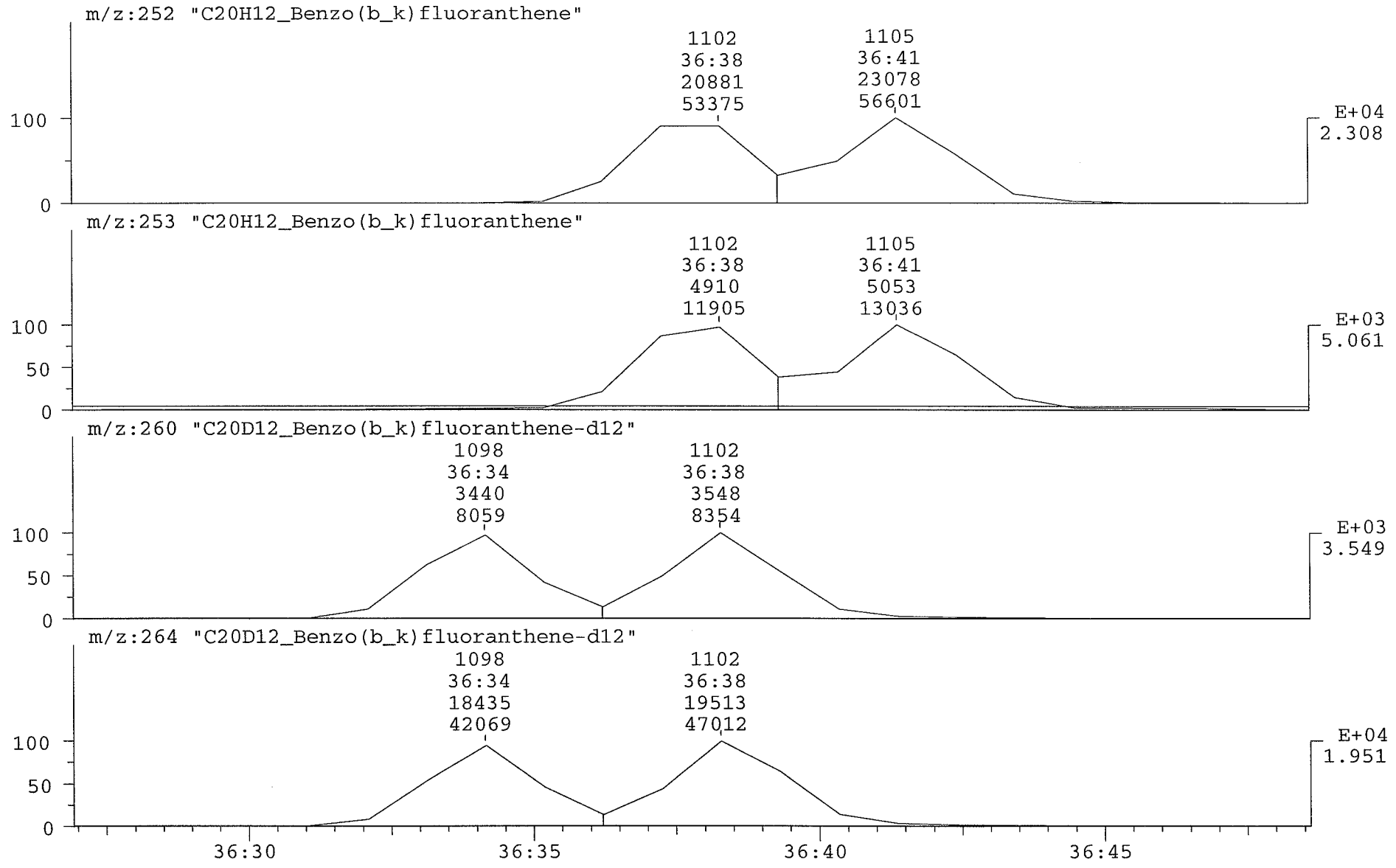
```
CHRO:  y060427s1                              27-APR-06   Elapse:   49:19       1735
Samp:  WO=y060427s1 Meth=YA1 Dil=1                        Start :   13:15:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   916 > 945            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



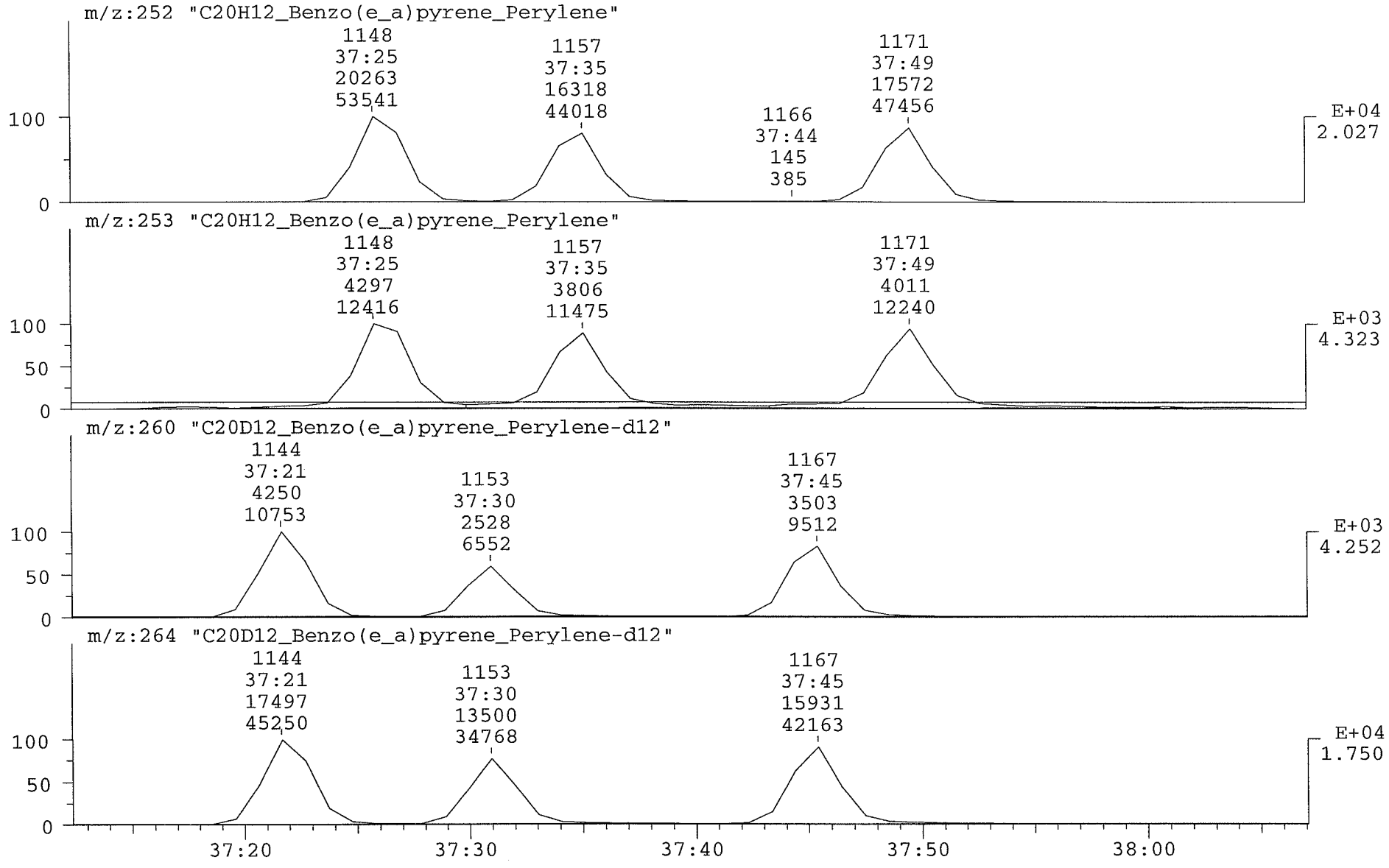
```
CHRO:  y060427s1                              27-APR-06   Elapse:   49:19       1735
Samp:  WO=y060427s1 Meth=YA1 Dil=1                        Start :   13:15:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   725 > 745            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   -2, 3.0
Disp:  Height  Area
```



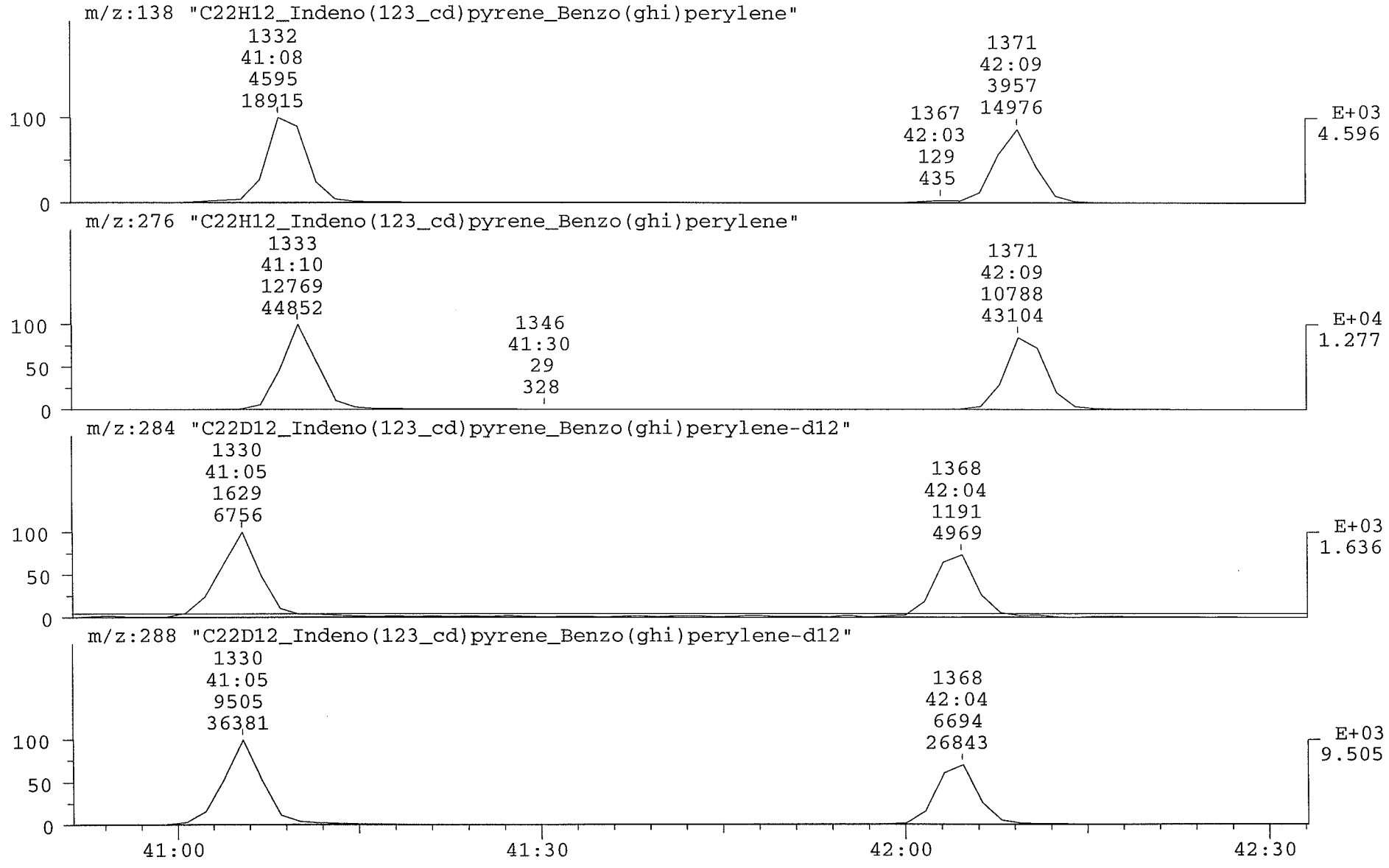
```
CHRO:  y060427s1                              27-APR-06   Elapse:   49:19       1735
Samp:  WO=y060427s1 Meth=YA1 Dil=1                        Start :   13:15:00    1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   1091 > 1112          Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



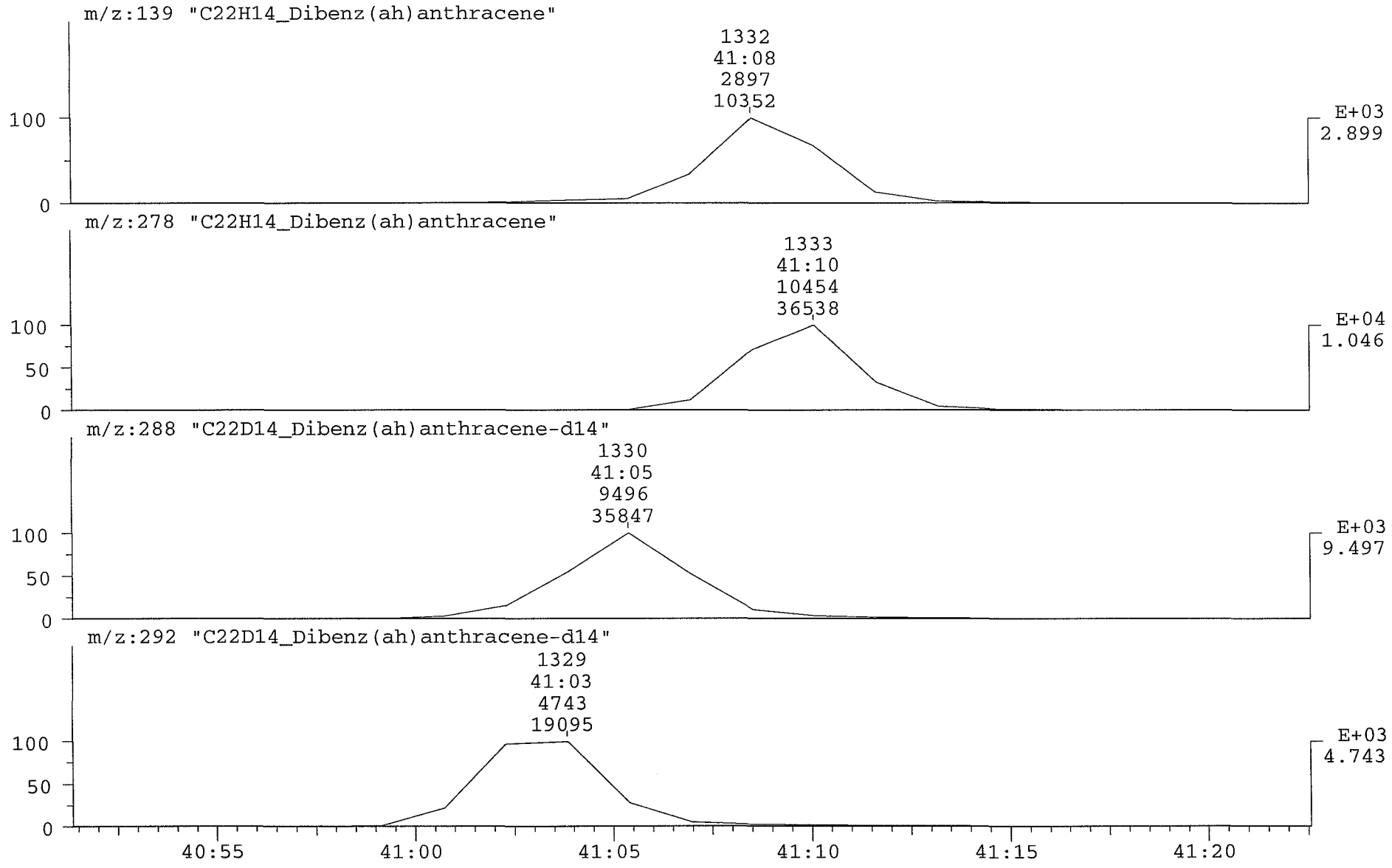
CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
CHRO:  y060427s1                              27-APR-06   Elapse:   49:19      1735
Samp:  WO=y060427s1 Meth=YA1 Dil=1                        Start :   13:15:00   1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   1321 > 1387          Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



CHRO: y060427s1 27-APR-06 Elapse: 49:19 1735
Samp: WO=y060427s1 Meth=YA1 Dil=1 Start : 13:15:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: Y60427S1.D
Date Acquired: 27 Apr 2006   1:15 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: Y060427S1
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  2
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Thu Apr 27 15:11:29 2006
d:\cdffiles\Y60427S1.CDF Translated at Thu Apr 27 15:11:29 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 09:37:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60427s1.dat
NetCDF File (input): /usr/users/hp/data/y60427s1.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 09:37:01 EDT 2006

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

STL Knoxville, LRMS-SIM GC/MS Continuing Calibration Review / Narrative Checklist
Method: LRPAH PAHs and Selected SVOCs - KNOX-ID-0016, Revision 4

Analysis Date:	4/28/06	CCAL Batch/ Scan Name:	20060428s1	Instrument:	Hr4	ICAL Batch/ Scan Name:	20060426i	Scanned □

Review Items	N/A	Yes	No	Why is data reportable?	2nd √
1. Did DFTPP meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of DFTPP?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Is the height of the valley between benzo(e)pyrene and benzo(a)pyrene ≤ 25% of the smaller peak? (m/z 252)		✓			✓
5. Is the height of the valley between anthracene and phenanthrene (m/z 178) ≤ 25% of the smaller peak?		✓			✓
6. Is the signal/noise ratio for all natives and labeled analytes ≥ 10:1 (≥3:1 allowed for confirmation ions for PAH ≥ C16)		✓			✓
7. Is the %D or drift ≤30% for all analytes		✓			✓
8. Are retention times for all analytes ≤ 15 seconds from ICAL average?		✓			✓
9. Are the MID descriptor switchpoints between the RT of the last compound and the first compound of each descriptor?		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, and dated?		✓			✓
11. Have manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				✓
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)	✓				✓
13. Elution order checked on isomeric pairs/coeluters?					
• 2-chloronaphthalene before 1-chloronaphthalene		✓			✓
• 2-methylnaphthalene before 1- methylnaphthalene (and –d10 isomers)		✓			✓
• phenanthrene before anthracene (and –d10 isomers)		✓			✓
• fluoranthene before pyrene (and –d10 isomers)		✓			✓
• benzo(a)anthracene before chrysene (and –d12 isomers)		✓			✓
• benzo(b)fluoranthene before benzo(k)fluoranthene (and –d12 isomers)		✓			✓
• benzo(e)pyrene before benzo(a)pyrene		✓			✓
• benzo(a)pyrene before perylene (and –d12 isomers)					
• Indeno(1,2,3-cd)pyrene before benzo(g,h,I)perylene (and –d12 isomers)		✓			✓
14. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				✓
15. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, MID descriptor, quan report, chromatogram and manual integrations.		✓			✓
16.					

Analyst:	Date: 4/28/06	2nd Level Reviewer: VMK	Date: 4/28/06
Comments:		Comments:	

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT H2A RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
4.27.06	22:18	DW	H2H231AA	yh2h232	OK	AIR2	SAM		HLOD030241-010
4.27.06	23:08	DW	H2H252AA	yh2h252	OK	AIR2	SAM		↓ -012
4.27.06	23:55	DW	MeCl2	rinse24	OK	—	QC		flush
4.28.06	00:12	DW	H2H271AA	yh2h272	OK	AIR2	SAM		HLOD030241-014
4.28.06	01:29	DW	H2H252AA 1/10	yh2h255	*DIL	AIR2	SAM		↓ -012
4.28.06	14:01	DW	2904:28	dfy0428	OK	—	tune		DFTPP tune
4.28.06	14:18	DW	3377:01-4	ydh0428s1	OK	—	ver		PAH ver
4.28.06	15:05	DW	MeCl2	rinse28	OK	—	QC		flush
4.28.06	15:22	DW	H2W5Q1AA	yh2w5q1a	OK	AIR2	QC		System Blank
4.28.06	16:12	DW	H2H252AA 1/10	yh2h256	OK	AIR2	SAM		HLOD030241-012
4.28.06	17:52	DW	2904:26	dfy0428	OK	—	WIN		C2/C3 alkylnaphthalene WIN
4.28.06	18:39	DW	MeCl2	rinse29	OK	—	QC		flush
4.28.06	18:53	DW	↓	rinse30	OK	—	QC		↓
4.28.06	19:07	DW	↓	rinse31	OK	—	QC		↓
4.28.06	19:42	DW	3377:08	ICV0428.2	OK	—	ICV		ICAL verification

Read and Understood by: _____

_____ Date: _____

STL - Knoxville

IsoCalc Continuing Calibration Report

PAH's by LRMS Extended List

CCAL ID: 17013 - Y060428S1
ICAL Date: 04/26/06
CCAL Filename: y060428s1
Method: YA1 - DXLPAH
CCAL Sample ID: 3377:01_4
Instrument: H2A
CCAL Result Dir: /20060428s1/y060428s1.d
Column SN: 695821
CCAL Date/Time: 04/28/06 14:18
Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Analytes	m/z	Std Conc (ng/mL)	CCAL Conc (ng/mL)	ICAL RF	CCAL RF	%D	QC Limit	Valid?
Naphthalene-d8	136	500.0	508.8	1.623	1.652	1.8	30.0	True
Naphthalene	128	500.0	476.0	1.233	1.173	-4.8	30.0	True
2-Methylnaphthalene	142	500.0	472.3	1.270	1.199	-5.5	30.0	True
2-Methylnaphthalene-d10	152	500.0	525.0	1.093	1.148	5.0	30.0	True
1-Methylnaphthalene	142	500.0	474.0	1.358	1.287	-5.2	30.0	True
1-Methylnaphthalene-d10	152	500.0	523.3	0.958	1.002	4.7	30.0	True
Biphenyl	154	500.0	472.0	1.552	1.465	-5.6	30.0	True
2,6-Dimethylnaphthalene	156	500.0	463.6	1.240	1.150	-7.3	30.0	True
2,6-Dimethylnaphthalene-d12	168	500.0	522.6	1.009	1.055	4.5	30.0	True
Acenaphthylene	152	500.0	477.8	1.221	1.167	-4.4	30.0	True
Acenaphthylene-d8	160	500.0	522.3	1.646	1.720	4.5	30.0	True
Acenaphthene	154	500.0	470.3	0.740	0.696	-5.9	30.0	True
2,3,5-Trimethylnaphthalene	170	500.0	469.1	1.140	1.069	-6.2	30.0	True
Fluorene d-10	176	500.0	493.9	0.805	0.795	-1.2	30.0	True
Fluorene-C13	172	500.0	492.6	0.752	0.741	-1.5	30.0	True
Fluorene	166	500.0	482.1	0.892	0.860	-3.6	30.0	True
Phenanthrene-d10	188	500.0	535.0	0.793	0.848	7.0	30.0	True
Phenanthrene	178	500.0	475.3	1.210	1.150	-4.9	30.0	True
Anthracene-d10	188	500.0	524.9	0.704	0.739	5.0	30.0	True
Anthracene	178	500.0	484.6	1.065	1.032	-3.1	30.0	True
1-Methylphenanthrene	192	500.0	476.9	0.871	0.830	-4.6	30.0	True
Fluoranthene-d10	212	500.0	521.7	0.761	0.794	4.3	30.0	True
Fluoranthene	202	500.0	482.5	1.298	1.253	-3.5	30.0	True
Pyrene	202	500.0	476.3	1.319	1.256	-4.7	30.0	True
Terphenyl-d14	244	500.0	480.4	0.762	0.732	-3.9	30.0	True
Benzo(a)Anthracene-d12	240	500.0	492.0	0.514	0.506	-1.6	30.0	True
Benzo(a)anthracene	228	500.0	475.7	1.385	1.317	-4.9	30.0	True
Chrysene-d12	240	500.0	477.8	0.516	0.493	-4.4	30.0	True
Chrysene	228	500.0	490.0	1.333	1.307	-2.0	30.0	True
Benzo(b)Fluoranthene-d12	264	500.0	545.7	0.895	0.976	9.1	30.0	True
Benzo(k)Fluoranthene-d12	264	500.0	496.2	1.030	1.022	-0.8	30.0	True
Benzo(b)fluoranthene	252	500.0	436.1	1.446	1.261	-12.8	30.0	True
Benzo(k)fluoranthene	252	500.0	535.7	1.093	1.172	7.1	30.0	True
Benzo(e)pyrene	252	500.0	466.7	1.495	1.396	-6.7	30.0	True
Benzo(a)Pyrene-d12	264	500.0	539.8	0.776	0.838	8.0	30.0	True
Benzo(a)pyrene	252	500.0	479.3	1.286	1.232	-4.1	30.0	True
Perylene-d12	264	500.0	533.1	0.936	0.998	6.6	30.0	True
Perylene	252	500.0	489.3	1.140	1.115	-2.1	30.0	True
Dibenz(ah)Anthracene-d14	292	500.0	518.5	0.402	0.417	3.7	30.0	True
Indeno(1,2,3-cd)pyrene-d12	288	500.0	515.7	0.772	0.796	3.1	30.0	True
Indeno(1,2,3-cd)pyrene	276	500.0	477.0	1.259	1.201	-4.6	30.0	True
Dibenz(a,h)anthracene	278	500.0	475.3	1.961	1.864	-4.9	30.0	True
Benzo(ghi)Perylene-d12	288	500.0	517.7	0.561	0.581	3.5	30.0	True
Benzo(ghi)perylene	276	500.0	476.4	1.639	1.562	-4.7	30.0	True

4/28/06
MMC 4/28/06

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IsoCalc Continuing Calibration Report

PAH's by LRMS Extended List

CCAL ID: 17013 - Y060428S1
ICAL Date: 04/26/06
CCAL Filename: y060428s1
Method: YA1 - DXLPAH
CCAL Sample ID: 3377:01_4
Instrument: H2A
CCAL Result Dir: /20060428s1/y060428s1.d
Column SN: 695821
CCAL Date/Time: 04/28/06 14:18
Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Analytes	ICAL RT	CCAL RT	RT Diff	ICAL RRT	CCAL RRT	RRT Diff
Naphthalene-d8	15:57	15:56	-1	0.7502	0.7504	-0.0002
Naphthalene	16:00	16:00	0	1.0031	1.0042	-0.0011
2-Methylnaphthalene	18:03	18:02	-1	1.0046	1.0056	-0.0009
2-Methylnaphthalene-d10	17:58	17:56	-2	0.8448	0.8446	0.0002
1-Methylnaphthalene	18:22	18:22	0	1.0048	1.0055	-0.0007
1-Methylnaphthalene-d10	18:17	18:16	-1	0.8597	0.8603	-0.0006
Biphenyl	19:26	19:26	0	1.0820	1.0836	-0.0016
2,6-Dimethylnaphthalene	19:54	19:54	0	1.0059	1.0067	-0.0008
2,6-Dimethylnaphthalene-d12	19:47	19:46	-1	0.9303	0.9309	-0.0007
Acenaphthylene	20:48	20:48	0	1.0017	1.0024	-0.0007
Acenaphthylene-d8	20:46	20:45	-1	0.9764	0.9772	-0.0009
Acenaphthene	21:21	21:20	-1	1.0282	1.0281	0.0001
2,3,5-Trimethylnaphthalene	22:28	22:27	-1	1.1356	1.1358	-0.0001
Fluorene d-10	22:47	22:46	-1	0.8857	0.8859	-0.0002
Fluorene-C13	22:52	22:52	0	0.8892	0.8898	-0.0006
Fluorene	22:52	22:50	-2	0.8892	0.8885	0.0007
Phenanthrene-d10	25:43	25:42	-1	0.8567	0.8562	0.0005
Phenanthrene	25:47	25:46	-1	1.0026	1.0026	0.0000
Anthracene-d10	25:52	25:52	0	0.8617	0.8617	-0.0001
Anthracene	25:54	25:54	0	1.0071	1.0078	-0.0007
1-Methylphenanthrene	27:40	27:39	-1	1.0758	1.0759	0.0000
Fluoranthene-d10	29:20	29:20	0	0.9772	0.9772	-0.0001
Fluoranthene	29:23	29:23	0	1.0018	1.0017	0.0001
Pyrene	30:05	30:04	-1	1.0253	1.0250	0.0003
Terphenyl-d14	30:30	30:29	-1	1.0398	1.0392	0.0006
Benzo(a)Anthracene-d12	33:36	33:35	-1	1.1193	1.1188	0.0005
Benzo(a)anthracene	33:39	33:39	0	1.0017	1.0020	-0.0003
Chrysene-d12	33:43	33:42	-1	1.1232	1.1227	0.0005
Chrysene	33:47	33:47	0	1.0020	1.0025	-0.0004
Benzo(b)Fluoranthene-d12	36:34	36:34	0	0.9787	0.9790	-0.0004
Benzo(k)Fluoranthene-d12	36:38	36:38	0	0.9806	0.9808	-0.0002
Benzo(b)fluoranthene	36:38	36:37	-1	1.0018	1.0014	0.0005
Benzo(k)fluoranthene	36:41	36:41	0	1.0014	1.0014	0.0000
Benzo(e)pyrene	37:26	37:25	-1	0.9977	0.9973	0.0003
Benzo(a)Pyrene-d12	37:31	37:31	0	1.0042	1.0045	-0.0003
Benzo(a)pyrene	37:35	37:34	-1	1.0017	1.0013	0.0004
Perylene-d12	37:45	37:44	-1	1.0103	1.0103	0.0001
Perylene	37:49	37:48	-1	1.0019	1.0018	0.0001
Dibenz(ah)Anthracene-d14	41:03	41:02	-1	1.0986	1.0986	0.0000
Indeno(1,2,3-cd)pyrene-d12	41:05	41:05	0	1.0995	1.1000	-0.0004
Indeno(1,2,3-cd)pyrene	41:10	41:10	0	1.0021	1.0020	0.0001
Dibenz(a,h)anthracene	41:10	41:08	-2	1.0029	1.0024	0.0005
Benzo(ghi)Perylene-d12	42:04	42:03	-1	1.1259	1.1258	0.0000
Benzo(ghi)perylene	42:11	42:09	-2	1.0028	1.0024	0.0005

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IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:01_4	**Prep Batch**		**Lot No**	
Data File	/20060428s1/y060428s1.d	**Prep Date**		**SDG No**	
Analysis ID	90366	**Prep Exp Date**		**Date Received**	
Analysis Date	4/28/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	14:18	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:56	70549	22181	1.623	500.0	508.759711	101.75	508.759711	0.264
Naphthalene	16:00	82786	28712	1.233	500.0	476.001065	95.20	476.001065	0.274
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene					500.0			ND	0.000000
2-Methylnaphthalene	18:02	58783	24518	1.270	500.0	472.299622	94.46	472.299622	0.242
2-Methylnaphthalene-d10	17:56	49013	20369	1.093	500.0	525.005967	105.00	525.005967	0.392
1-Methylnaphthalene	18:22	55109	22970	1.358	500.0	474.048474	94.81	474.048474	0.280
1-Methylnaphthalene-d10	18:16	42808	16438	0.958	500.0	523.294704	104.66	523.294704	0.448
1-Chloronaphthalene					500.0			ND	0.000000
2-Chloronaphthalene					500.0			ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:26	71809	32864	1.552	500.0	471.967177	94.39	471.967177	0.593
2,6-Dimethylnaphthalene	19:54	51821	22367	1.240	500.0	463.640306	92.73	463.640306	1.40
2,6-Dimethylnaphthalene-d1	19:46	45055	17311	1.009	500.0	522.644694	104.53	522.644694	0.425
C2 Alkylnaphthalenes				1.240		463.640306		463.640306	1.09
Acenaphthylene	20:48	85712	33083	1.221	500.0	477.819949	95.56	477.819949	0.160
Acenaphthylene-d8	20:45	73442	32019	1.646	500.0	522.251106	104.45	522.251106	0.156
Acenaphthene-d10	21:14	42707	14579	1.000	500.0	500.000000	100.00	500.000000	0.514
Acenaphthene	21:20	51087	18794	0.740	500.0	470.303590	94.06	470.303590	0.792
2,3,5-Trimethylnaphthalene	22:27	48182	18385	1.140	500.0	469.110201	93.82	469.110201	0.253
C3 Alkylnaphthalenes				1.140		469.110201		469.110201	0.198
Fluorene d-10	22:46	59355	27389	0.805	500.0	493.878292	98.78	493.878292	0.150
Fluorene-C13	22:52	55356	20944	0.752	500.0	492.631166	98.53	492.631166	0.160
Fluorene	22:50	64224	22649	0.892	500.0	482.051762	96.41	482.051762	0.270
Phenanthrene-d10	25:42	74686	31120	0.793	500.0	535.037944	107.01	535.037944	0.157
Phenanthrene	25:46	85921	39279	1.210	500.0	475.325705	95.07	475.325705	0.166
Anthracene-d10	25:52	65042	23171	0.704	500.0	524.877887	104.98	524.877887	0.177
Anthracene	25:54	77057	35536	1.065	500.0	484.553404	96.91	484.553404	0.189
1-Methylphenanthrene	27:39	62022	23817	0.871	500.0	476.862917	95.37	476.862917	0.323
Fluoranthene-d10	29:20	69943	29721	0.761	500.0	521.671555	104.33	521.671555	0.164
Fluoranthene	29:23	87618	39205	1.298	500.0	482.510302	96.50	482.510302	0.162
Pyrene-d10	30:01	88037	40055	1.000	500.0	500.000000	100.00	500.000000	0.125
Pyrene	30:04	87867	40142	1.319	500.0	476.255354	95.25	476.255354	0.159
Terphenyl-d14	30:29	51183	24756	0.762	500.0	480.434162	96.09	480.434162	0.166
Benzo(a)Anthracene-d12	33:35	44537	20976	0.514	500.0	492.021556	98.40	492.021556	0.486
Benzo(a)anthracene	33:39	58675	27869	1.385	500.0	475.697214	95.14	475.697214	0.172
Chrysene-d12	33:42	43408	19127	0.516	500.0	477.752700	95.55	477.752700	0.484
Chrysene	33:47	56726	23364	1.333	500.0	490.033949	98.01	490.033949	0.196
Benzo(b)Fluoranthene-d12	36:34	41117	16106	0.895	500.0	545.704636	109.14	545.704636	0.578
Benzo(k)Fluoranthene-d12	36:38	43053	18442	1.030	500.0	496.182752	99.24	496.182752	0.502
Benzo(b)fluoranthene	36:37	51839	21812	1.446	500.0	436.094558	87.22	436.094558	0.805
Benzo(k)fluoranthene	36:41	50437	21134	1.093	500.0	535.687306	107.14	535.687306	0.930
Benzo(e)pyrene-d12	37:21	42112	16920	1.000	500.0	500.000000	100.00	500.000000	0.517
Benzo(e)pyrene	37:25	49241	19552	1.495	500.0	466.719112	93.34	466.719112	0.965
Benzo(a)Pyrene-d12	37:31	35280	12991	0.776	500.0	539.774213	107.95	539.774213	0.666
Benzo(a)pyrene	37:34	43481	16205	1.286	500.0	479.257886	95.85	479.257886	1.12
Perylene-d12	37:44	42037	14619	0.936	500.0	533.103382	106.62	533.103382	0.552
Perylene	37:48	46892	16067	1.140	500.0	489.277226	97.86	489.277226	1.13
3-Methylcholanthrene					500.0			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:01_4	**Prep Batch**		**Lot No**	
Data File	/20060428s1/y060428s1.d	**Prep Date**		**SDG No**	
Analysis ID	90366	**Prep Exp Date**		**Date Received**	
Analysis Date	4/28/2006	**Matrix**	UNKNOWN	**Date Sampled**	
Analysis Time	14:18	**Initial Wt/Vol**		**Lims Test Code**	
Anal Exp Date		**Extract Vol**		**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:02	17541	5154	0.402	500.0	518.470586	103.69	518.470586	0.736
Indeno(1,2,3-cd)pyrene-d12	41:05	33538	8474	0.772	500.0	515.735891	103.15	515.735891	0.383
Indeno(1,2,3-cd)pyrene	41:10	40291	11218	1.259	500.0	477.040760	95.41	477.040760	0.586
Dibenz(a,h)anthracene	41:08	32690	8699	1.961	500.0	475.278360	95.06	475.278360	0.866
Benzo(ghi)Perylene-d12	42:03	24455	6406	0.561	500.0	517.664199	103.53	517.664199	0.527
Benzo(ghi)perylene	42:09	38195	10405	1.639	500.0	476.412561	95.28	476.412561	0.595
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene					500.0			ND	0.000000

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IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:01_4	Prep Batch		Lot No	
Data File	/20060428s1/y060428s1.	Prep Date		SDG No	
Analysis ID	90366	Prep Exp Date		Date Received	
Analysis Date	04/28/06 14:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	15		6				
	Naphthalene	16:00	15:59	1	82786		28712			ABV	
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	13		5				
	Naphthalene-d8	15:56	15:56	0	70549		22181			ABV	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	13		5				
	2-Methylnaphthalene	18:02	18:02	0	58783		24518			ABV	
	1-Methylnaphthalene	18:22	18:21	1	55109		22970			AVB	
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	13		5				
	2-Methylnaphthalene-d10	17:56	17:57	-1	49013		20369			ABV	
	1-Methylnaphthalene-d10	18:16	18:16	0	42808		16438			AVB	
	Acenaphthylene	20:48	20:47	1	85712		33083			ABB	
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	38		15				
	Biphenyl	19:26	19:25	1	71809		32864			ABB	
	Acenaphthene	21:20	21:20	0	51087		18794			ABB	
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	60		24				
	2,6-Dimethylnaphthalene	19:54	19:53	1	51821		22367			ABB	
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	8		3				
	Acenaphthylene-d8	20:45	20:45	0	73442		32019			ABV	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	10		4				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	15		6				
	Acenaphthene-d10	21:14	21:15	-1	42707		14579			ABV	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluorene	22:50	22:51	-1	64224		22649			AVB	
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	13		5				
	2,6-Dimethylnaphthalene	19:46	19:46	0	45055		17311			ABB	
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	5		2				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	10		4				
	2,3,5-Trimethylnaphthal	22:27	22:27	0	48182		18385			ABB	
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	8		3				

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

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IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:01_4	Prep Batch		Lot No	
Data File	/20060428s1/y060428s1.	Prep Date		SDG No	
Analysis ID	90366	Prep Exp Date		Date Received	
Analysis Date	04/28/06 14:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
172					**172.0000**		**172.0000**			
	Fluorene-C13	22:52	22:51	1	55356		20944			AVB
176					**176.0000**		**176.0000**			
	Noise	00:00	00:00	0	8		3			
	Fluorene d-10	22:46	22:46	0	59355		27389			ABB
178					**178.0000**		**178.0000**			
	Noise	00:00	00:00	0	13		5			
	Phenanthrene	25:46	25:46	0	85921		39279			ABV
	Anthracene	25:54	25:53	1	77057		35536			AVV
188					**188.0000**		**188.0000**			
	Noise	00:00	00:00	0	10		4			
	Phenanthrene-d10	25:42	25:42	0	74686		31120			ABV
	Anthracene-d10	25:52	25:51	1	65042		23171			AVB
192					**192.0000**		**192.0000**			
	Noise	00:00	00:00	0	18		7			
	1-Methylphenanthrene	27:39	27:39	0	62022		23817			ABB
202					**202.0000**		**202.0000**			
	Noise	00:00	00:00	0	13		5			
	Fluoranthene	29:23	29:22	1	87618		39205			ABV
	Pyrene	30:04	30:04	0	87867		40142			ABV
212					**212.0000**		**212.0000**			
	Noise	00:00	00:00	0	10		4			
	Fluoranthene-d10	29:20	29:19	1	69943		29721			ABV
	Pyrene-d10	30:01	30:00	1	88037		40055			ABV
228					**228.0000**		**228.0000**			
	Noise	00:00	00:00	0	10		4			
	Benzo(a)anthracene	33:39	33:38	1	58675		27869			ABV
	Chrysene	33:47	33:46	1	56726		23364			AVB
240					**240.0000**		**240.0000**			
	Noise	00:00	00:00	0	20		8			
	Benzo(a)Anthracene-d12	33:35	33:35	0	44537		20976			ABV
	Chrysene-d12	33:42	33:42	0	43408		19127			AVB
244					**244.0000**		**244.0000**			
	Noise	00:00	00:00	0	8		3			
	Terphenyl-d14	30:29	30:29	0	51183		24756			ABB
252					**252.0000**		**252.0000**			
	Noise	00:00	00:00	0	38		15			
	Benzo(b)fluoranthene	36:37	36:37	0	51839		21812			ABV
	Benzo(k)fluoranthene	36:41	36:40	1	50437		21134			AVV
	Benzo(e)pyrene	37:25	37:25	0	49241		19552			ABV
	Benzo(a)pyrene	37:34	37:34	0	43481		16205			AVV
	Perylene	37:48	37:48	0	46892		16067			AVB
264					**264.0000**		**264.0000**			

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	3377:01_4	Prep Batch		Lot No	
Data File	/20060428s1/y060428s1.	Prep Date		SDG No	
Analysis ID	90366	Prep Exp Date		Date Received	
Analysis Date	04/28/06 14:18	Matrix	UNKNOWN	Date Sampled	
Anal Exp Date		Initial Wt/Vol		Lims Test Code	
Instrument	H2A	Extract Vol		Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

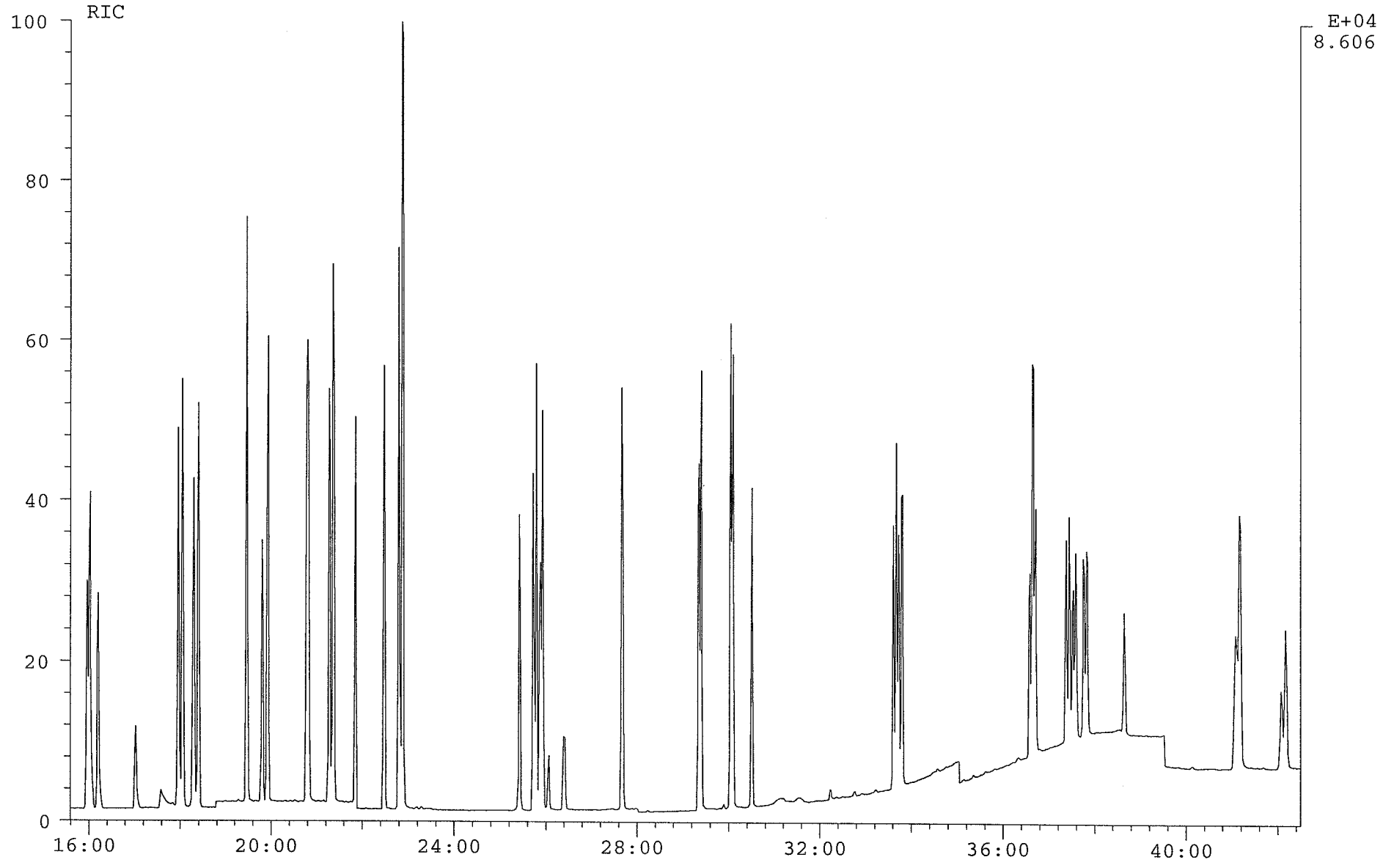
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	18		7				
	Benzo(b)Fluoranthene-d1	36:34	36:33	1	41117		16106			ABV	
	Benzo(k)Fluoranthene-d1	36:38	36:37	1	43053		18442			AVB	
	Benzo(e)pyrene-d12	37:21	37:21	0	42112		16920			ABV	
	Benzo(a)Pyrene-d12	37:31	37:30	1	35280		12991			AVV	
	Perylene-d12	37:44	37:44	0	42037		14619			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	45		18				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene	41:10	41:09	1	40291		11218			ABV	
	Benzo(ghi)perylene	42:09	42:10	-1	38195		10405			ABB	
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	18		7				
	Dibenz(a,h)anthracene	41:08	41:09	-1	32690		8699			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	10		4				
	Indeno(1,2,3-cd)pyrene-	41:05	41:04	1	33538		8474			ABV	
	Benzo(ghi)Perylene-d12	42:03	42:03	0	24455		6406			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	10		4				
	Dibenz(ah)Anthracene-d1	41:02	41:02	0	17541		5154			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	5		2				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	8		3				

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

Int/Calc: J 4/27/06
QC VMC 5/28/06

CHRO: y060428s1 28-APR-06 Elapse: 41:02 1328
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1 > 1384 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : 0, 3.0
Disp: Height Area



Data File: /var/chem/gcms/my.i/y060428s1.b/dfy0428.d

Date : 28-APR-2006 14:01

Client ID: Tune

Instrument: my.i

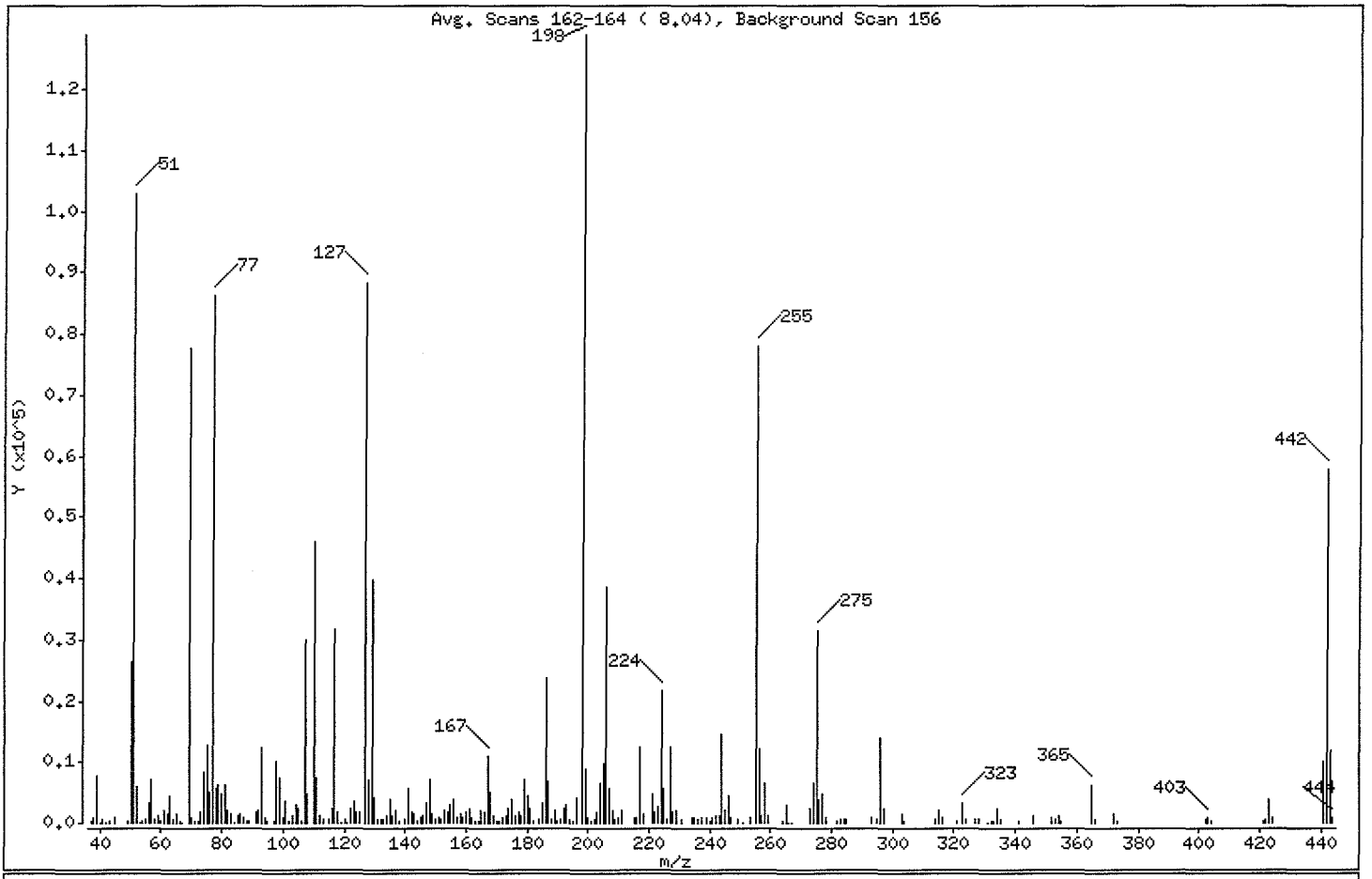
Sample Info: Y060428S1,DFTPP,

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	79.84
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	60.32
70	Less than 2.00% of mass 69	0.74 (1.22)
127	25.00 - 75.00% of mass 198	68.59
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.92
275	10.00 - 30.00% of mass 198	24.28
365	Greater than 0.75% of mass 198	4.86
441	Present, but less than mass 443	7.71
442	40.00 - 110.00% of mass 198	44.72
443	15.00 - 24.00% of mass 442	9.18 (20.53)

Data File: /var/chem/gcms/my.i/y060428s1.b/dfy0428.d

Date : 28-APR-2006 14:01

Client ID: Tune

Instrument: my.i

Sample Info: Y060428S1,DFTPP,

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy0428.d

Spectrum: Avg. Scans 162-164 (8.04), Background Scan 156

Location of Maximum: 198.00

Number of points: 251

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	393	107.00	29896	174.00	2316	249.00	616
38.00	813	108.00	4616	175.00	3759	251.00	103
39.00	7635	110.00	45920	176.00	1200	253.00	747
40.00	8	111.00	7510	177.00	1770	255.00	77984
41.00	579	112.00	1301	178.00	1184	256.00	12282
42.00	117	113.00	712	179.00	7046	257.00	1219
43.00	342	115.00	493	180.00	4594	258.00	6503
45.00	865	116.00	2325	181.00	2436	259.00	1134
49.00	301	117.00	31624	182.00	363	264.00	348
50.00	26352	118.00	1919	184.00	473	265.00	3088
51.00	102968	119.00	95	185.00	3258	266.00	115
52.00	5804	120.00	667	186.00	23864	267.00	111
53.00	130	121.00	128	187.00	6853	273.00	2460
54.00	178	122.00	2391	188.00	709	274.00	6545
55.00	728	123.00	3633	189.00	2216	275.00	31304
56.00	3178	124.00	1645	190.00	171	276.00	3983
57.00	7009	125.00	1651	191.00	582	277.00	4618
58.00	684	127.00	88464	192.00	2227	278.00	813
59.00	1300	128.00	7016	193.00	3088	282.00	360
60.00	210	129.00	39856	194.00	697	283.00	637
61.00	1996	130.00	4176	195.00	274	284.00	596
62.00	1486	131.00	715	196.00	4284	285.00	732
63.00	4381	132.00	716	198.00	128968	293.00	964
64.00	655	133.00	709	199.00	8922	295.00	466
65.00	1579	134.00	1248	200.00	940	296.00	13914
66.00	174	135.00	3765	201.00	284	297.00	2400
67.00	111	136.00	1196	202.00	639	303.00	1372
69.00	77792	137.00	2092	203.00	1660	304.00	359
70.00	952	138.00	167	204.00	6658	314.00	632
71.00	288	140.00	519	205.00	9758	315.00	1941
72.00	175	141.00	5575	206.00	38408	316.00	959
73.00	1732	142.00	1881	207.00	5704	321.00	188
74.00	8403	143.00	1347	208.00	1969	323.00	3144
75.00	12858	144.00	206	209.00	590	324.00	625
76.00	5020	145.00	748	210.00	808	327.00	654

Data File: /var/chem/gcms/my.i/y060428s1.b/dfy0428.d

Date : 28-APR-2006 14:01

Client ID: Tune

Instrument: my.i

Sample Info: Y060428S1,DFTPP,

Operator: JHN

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy0428.d
Spectrum: Avg. Scans 162-164 (8.04), Background Scan 156
Location of Maximum: 198.00
Number of points: 251

m/z	Y	m/z	Y	m/z	Y	m/z	Y
77.00	86296	146.00	1276	211.00	2110	328.00	653
78.00	5779	147.00	3322	215.00	786	331.00	23
79.00	6335	148.00	7184	216.00	1036	332.00	173
80.00	4880	149.00	1393	217.00	12510	333.00	206
81.00	6329	150.00	655	218.00	1561	334.00	2429
82.00	2126	151.00	879	221.00	4669	335.00	667
83.00	1420	152.00	686	222.00	1857	341.00	183
84.00	110	153.00	1989	223.00	2584	346.00	1106
85.00	1198	154.00	1855	224.00	21616	352.00	821
86.00	1485	155.00	2953	225.00	5593	353.00	666
87.00	864	156.00	3783	226.00	461	354.00	1079
88.00	288	157.00	883	227.00	12558	355.00	306
89.00	163	158.00	1360	228.00	1843	365.00	6267
91.00	1685	159.00	985	229.00	2051	366.00	662
92.00	2028	160.00	1789	231.00	569	372.00	1439
93.00	12403	161.00	2347	234.00	935	373.00	209
94.00	955	162.00	800	235.00	1029	402.00	675
95.00	241	163.00	299	236.00	587	403.00	988
97.00	364	164.00	404	237.00	863	404.00	172
98.00	9987	165.00	2161	239.00	778	421.00	439
99.00	7368	166.00	1881	240.00	170	422.00	457
100.00	955	167.00	10899	241.00	813	423.00	3722
101.00	3660	168.00	5010	242.00	1205	424.00	902
102.00	408	169.00	1127	243.00	1195	441.00	9939
103.00	1328	170.00	386	244.00	14517	442.00	57680
104.00	3080	171.00	416	245.00	2147	443.00	11844
105.00	2258	172.00	1028	246.00	4390	444.00	984
106.00	322	173.00	1195	247.00	814		

Data File: /var/chem/gcms/my.i/y060428s1.b/dfy0428.d

Date : 28-APR-2006 14:01

Client ID: Tune

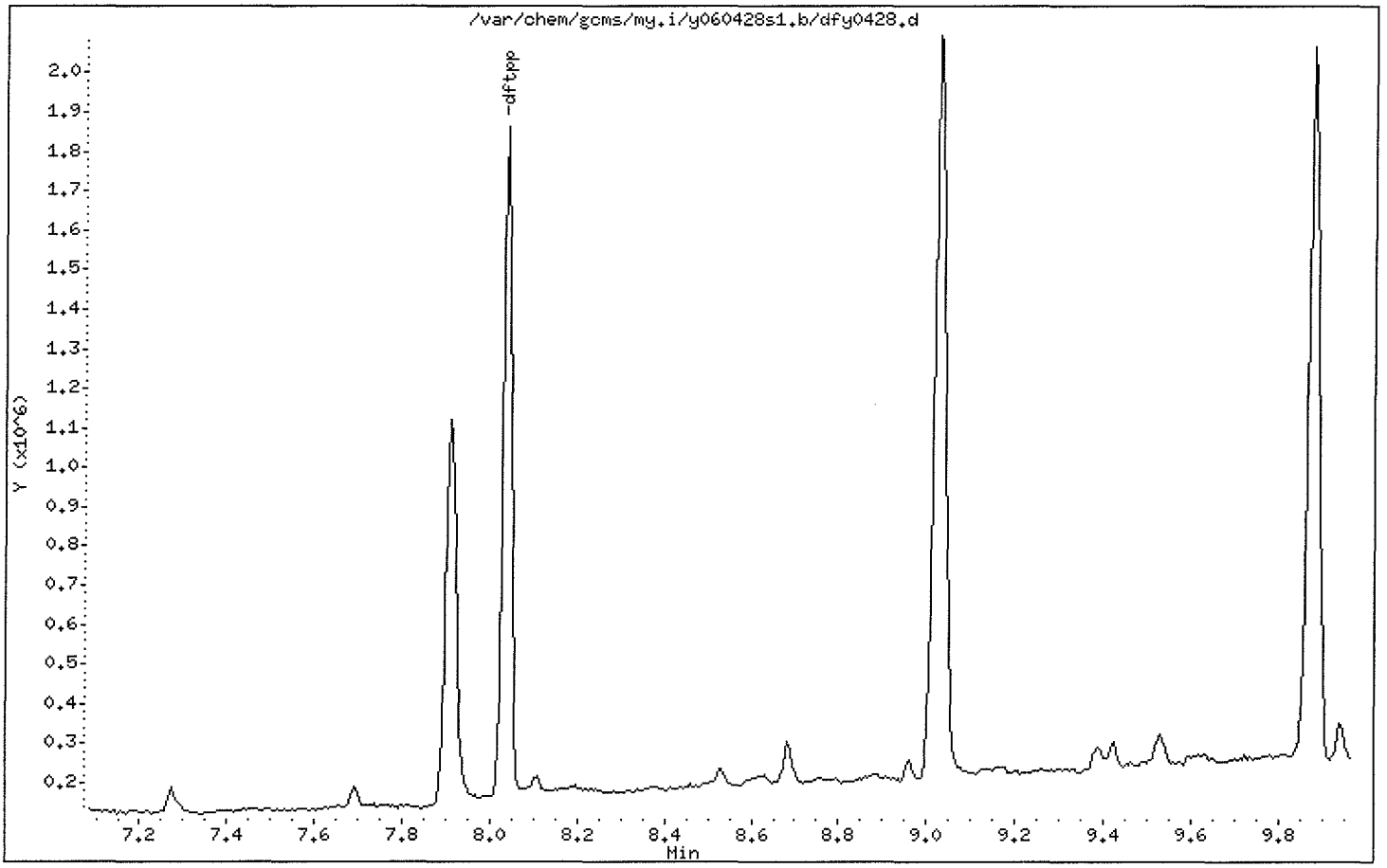
Instrument: my.i

Sample Info: Y060428S1,DFTPP,

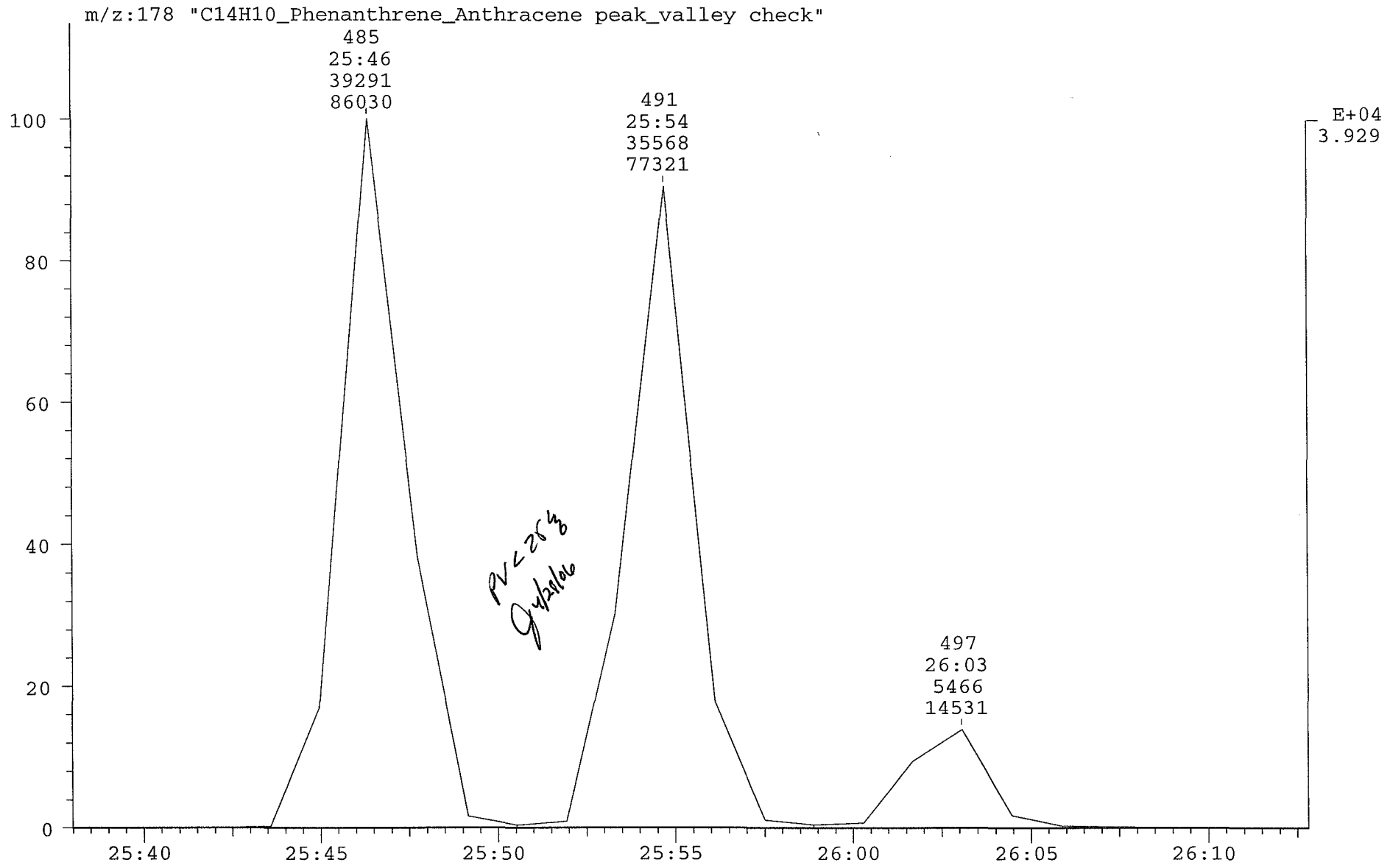
Operator: JMN

Column phase: HP5-MS

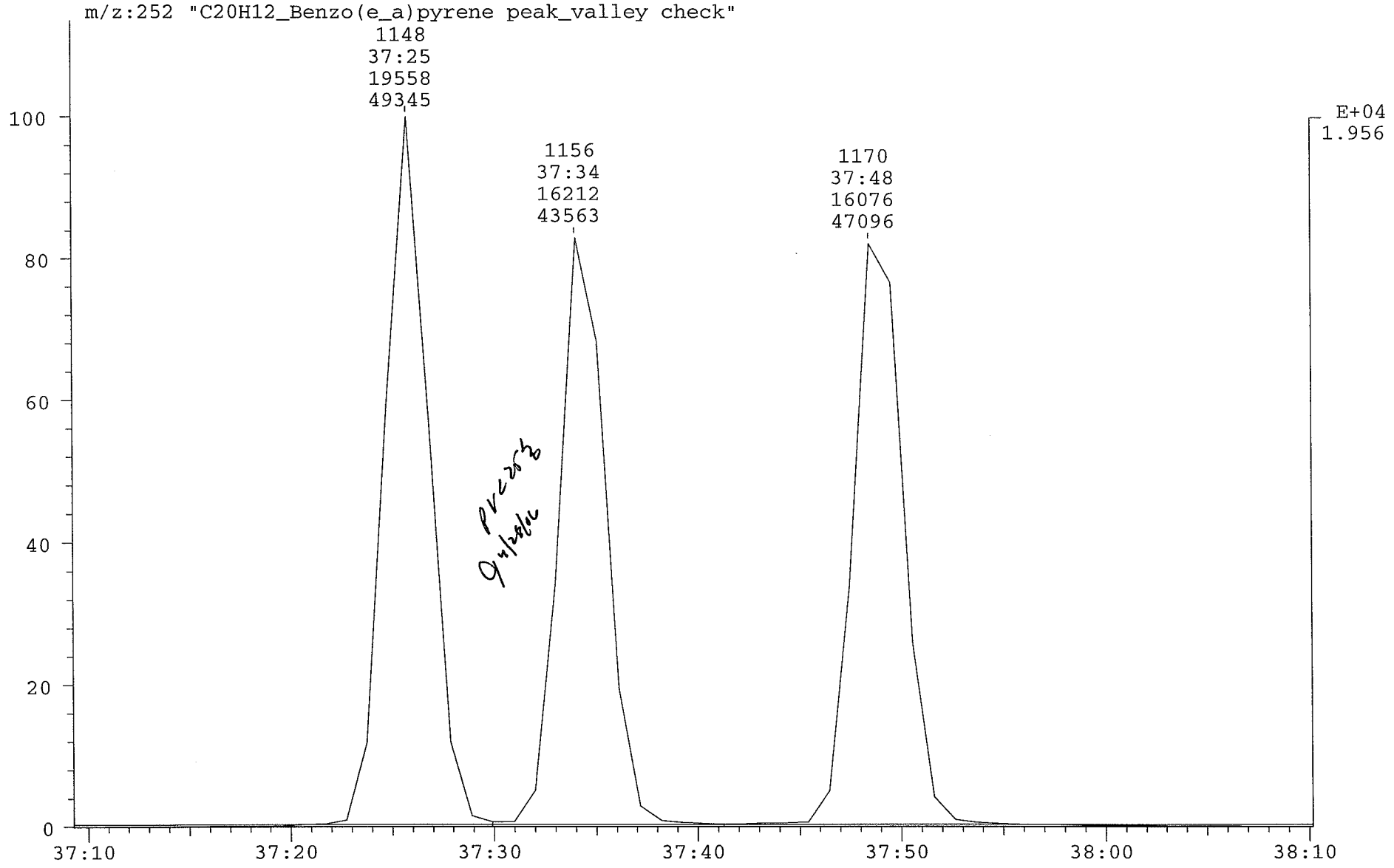
Column diameter: 0.25



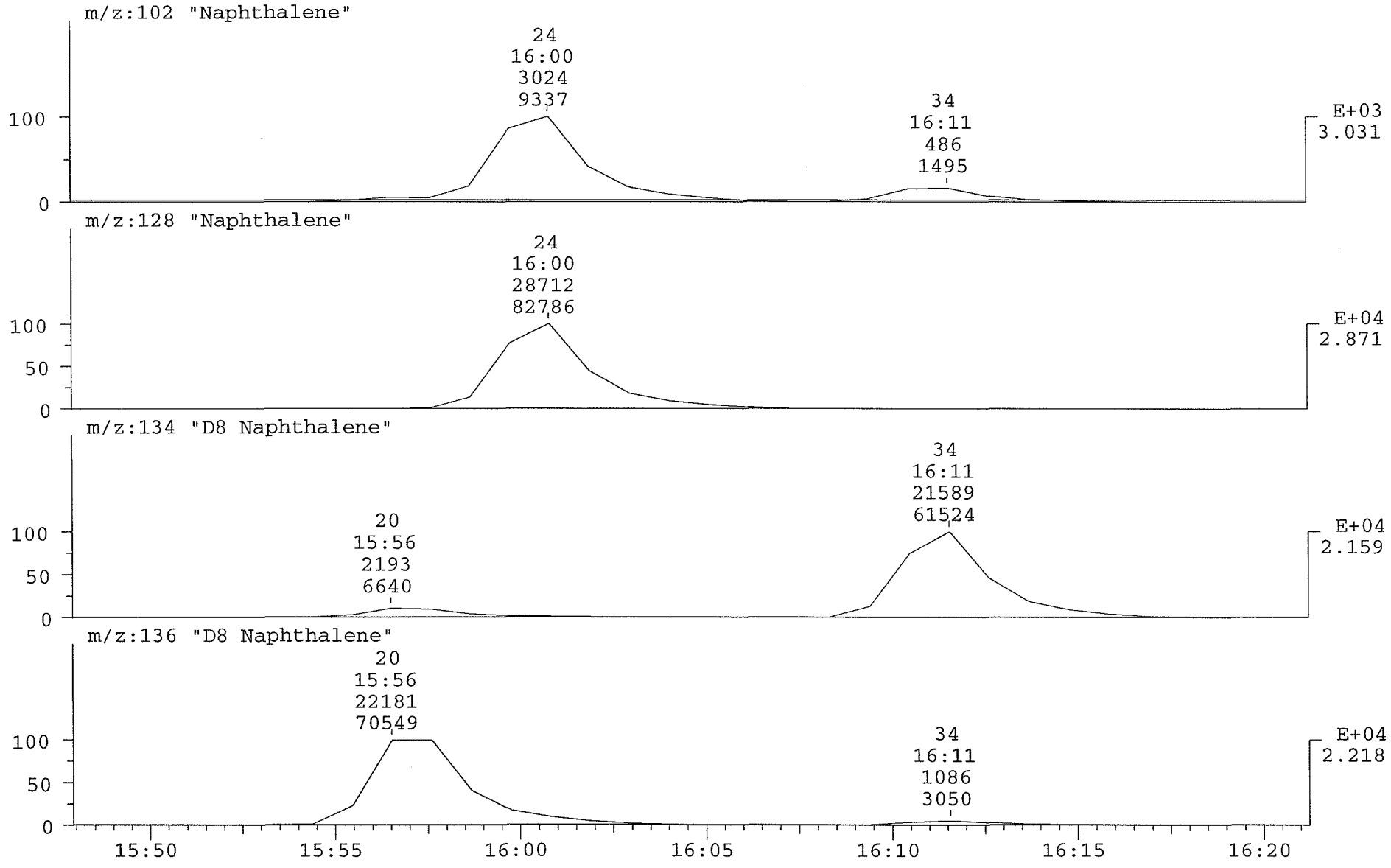
CHRO: y060428s1 28-APR-06 Elapse: 29:35.1 677
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 479 > 504 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



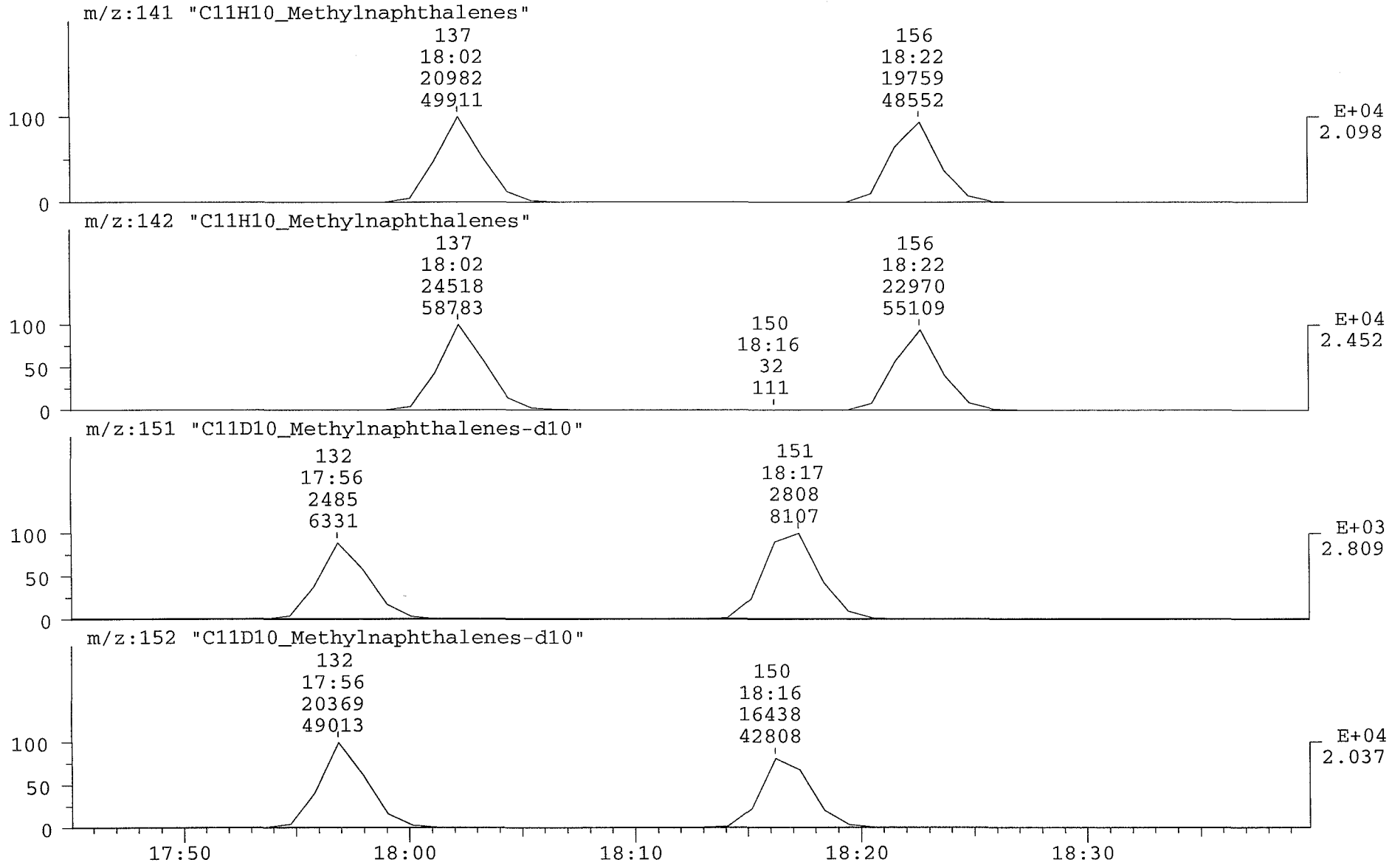
CHRO: y060428s1 28-APR-06 Elapse: 29:35.1 677
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1132 > 1191 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



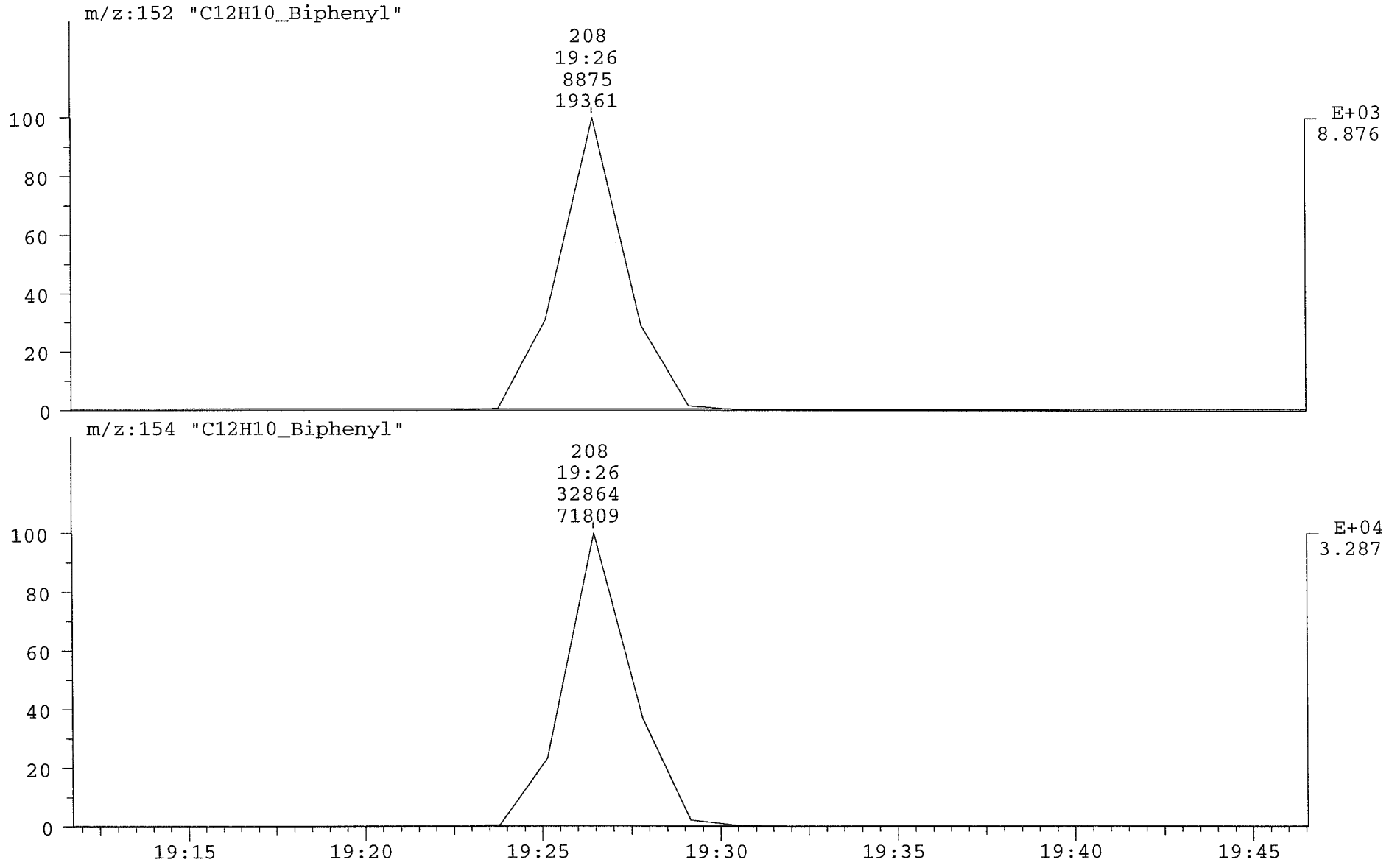
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



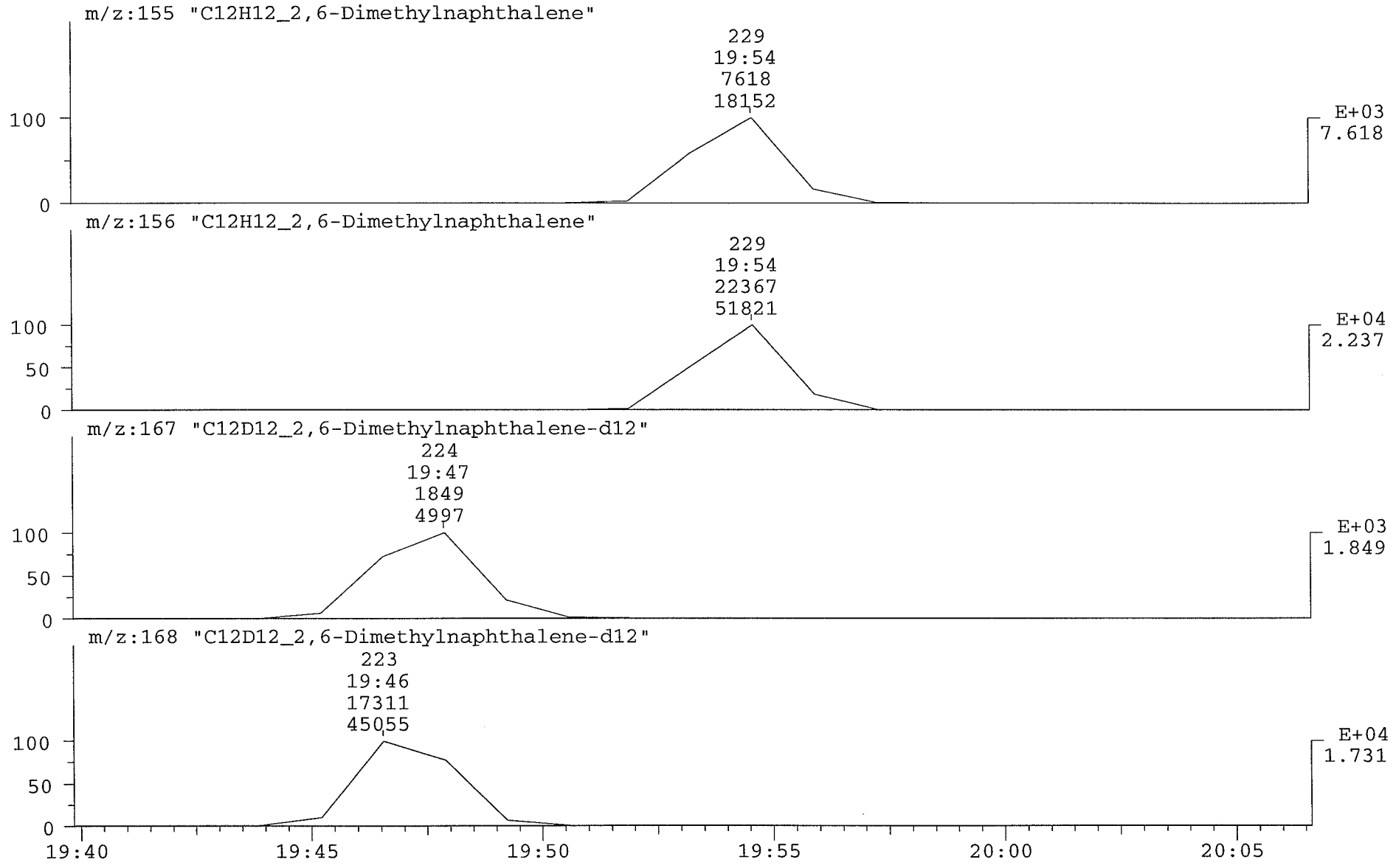
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



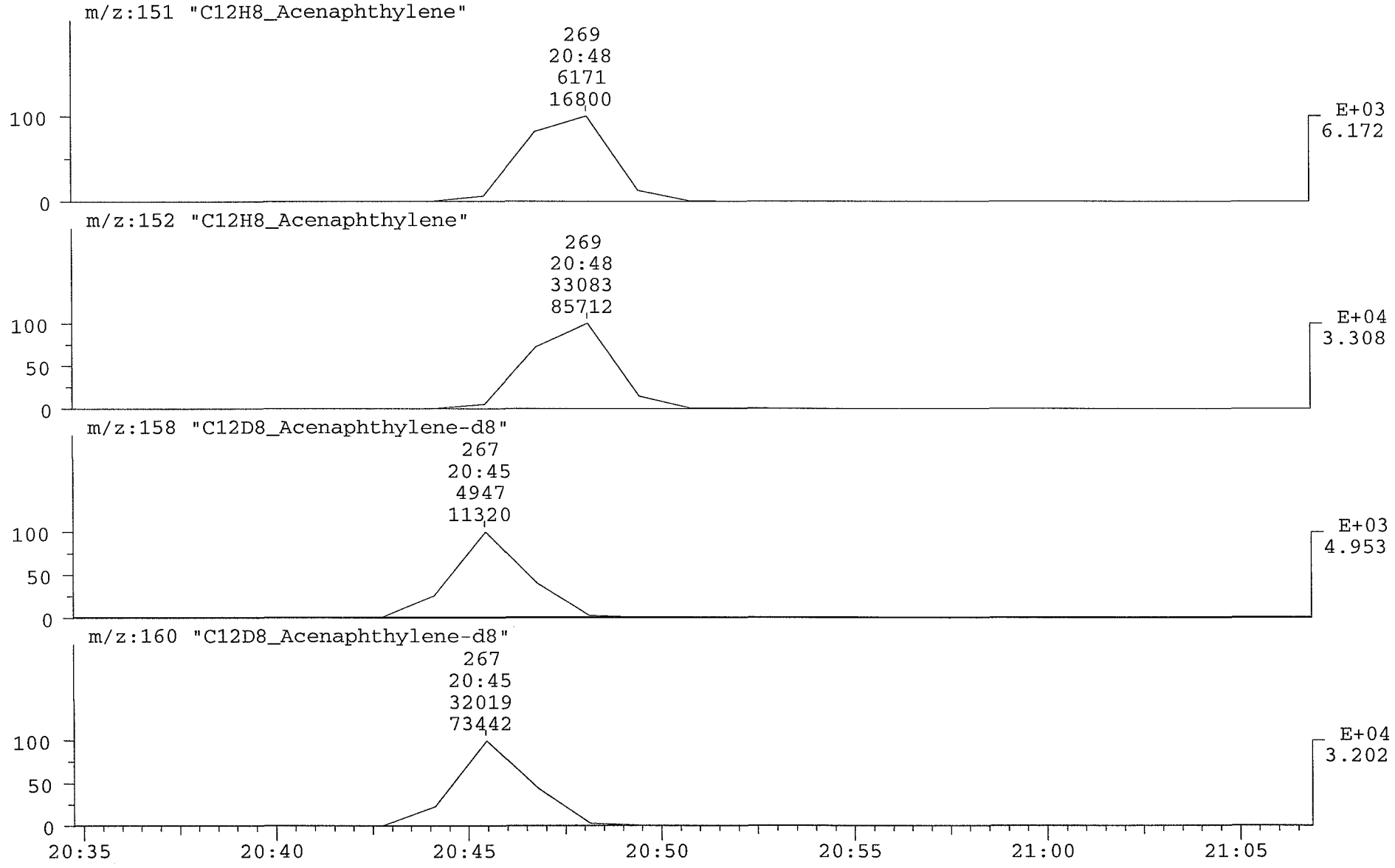
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CHRO:  y060428s1                              28-APR-06  Elapse:  49:19      1735
Samp:  WO=3377:01_4 Meth=YA1 Dil=1                       Start :  14:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                  Study :  PAH Ver
Oper:  JMN           Client:  STL Knoxville              Inlet :
Peak:  100.00  ppm     Label wndw:   197 > 223           Masses:  0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :  -2, 3.0
Disp:  Height  Area
```



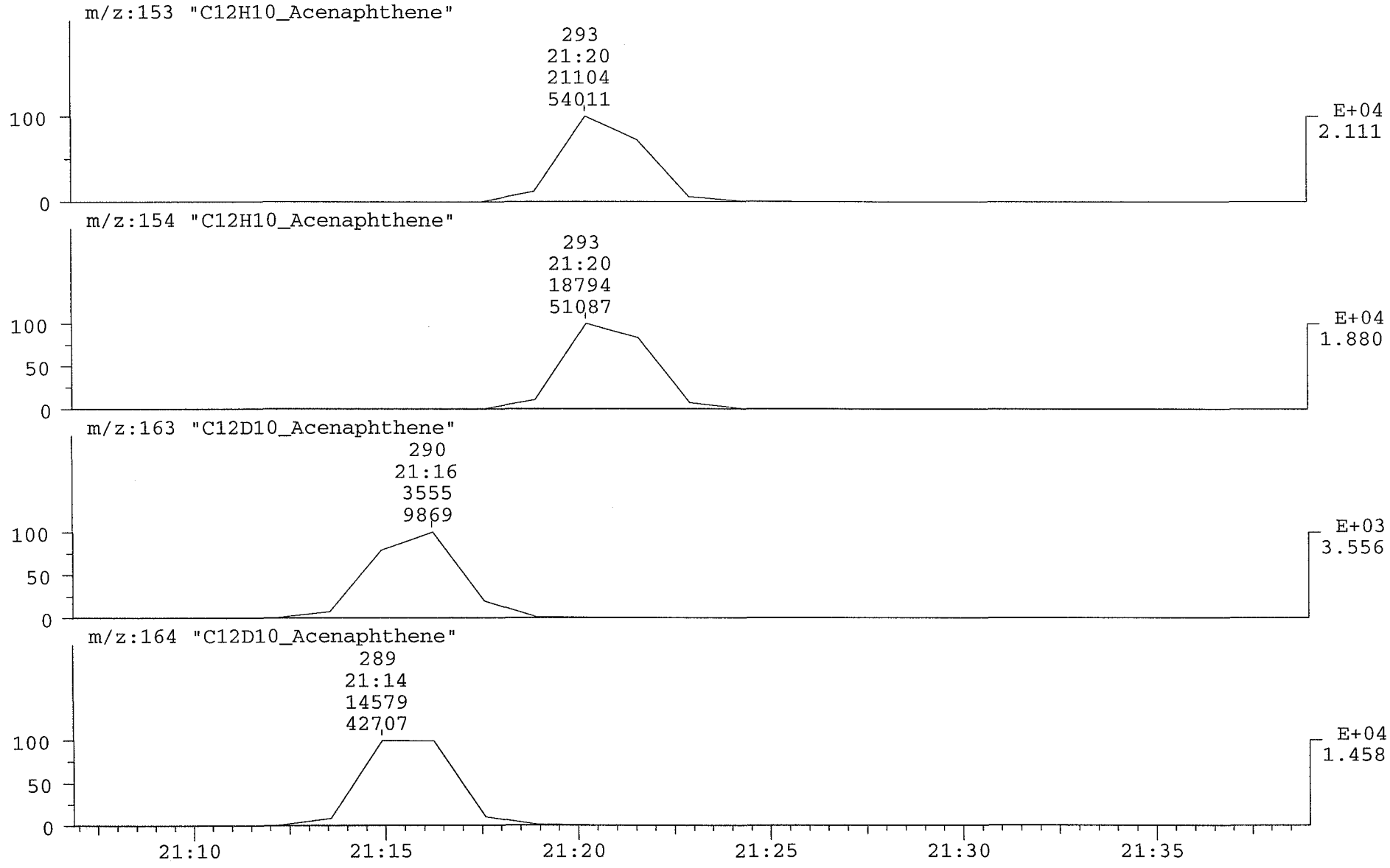
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



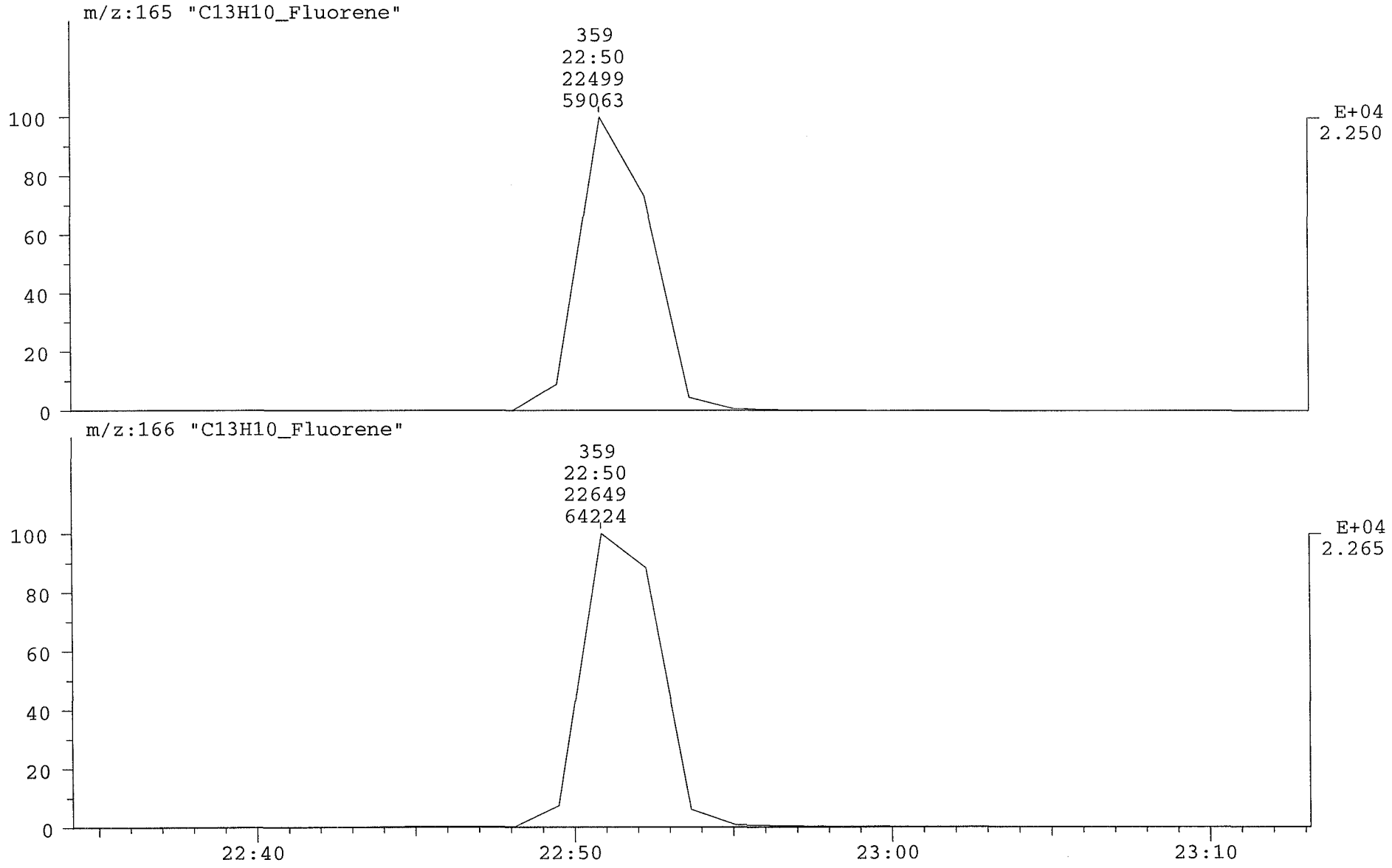
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



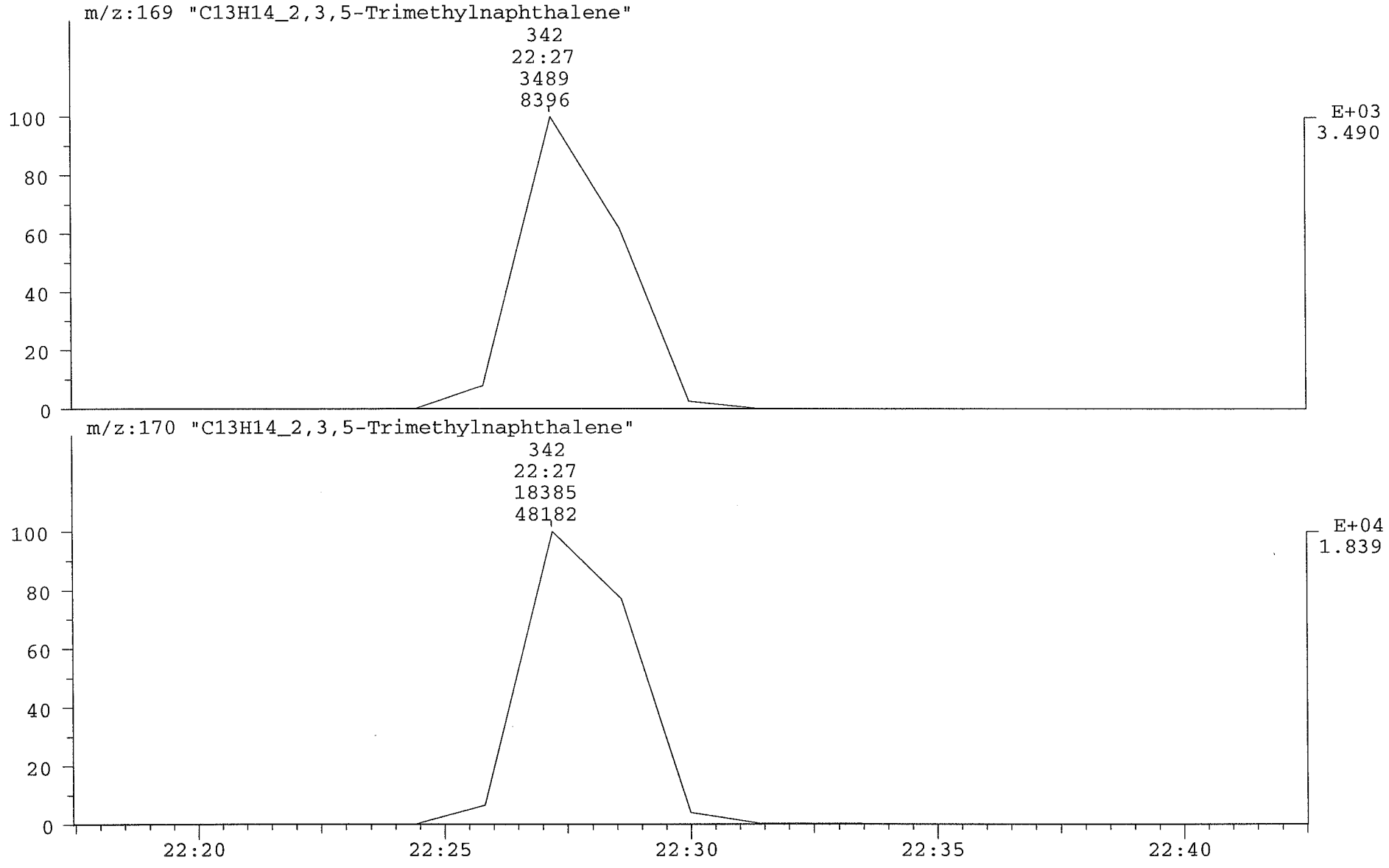
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



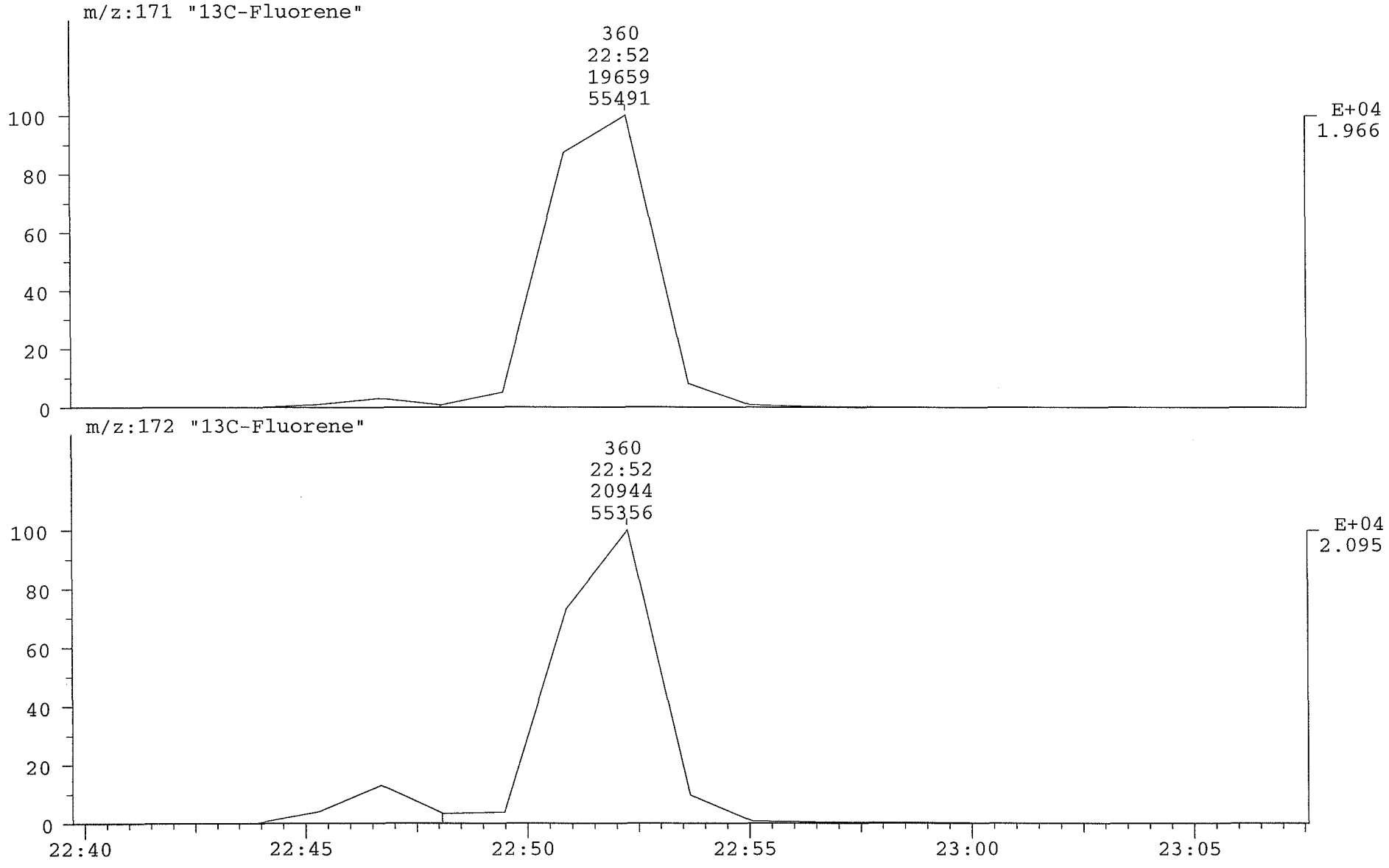
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CHRO:  y060428s1                              28-APR-06   Elapse:   49:19      1735
Samp:  WO=3377:01_4 Meth=YA1 Dil=1                        Start :   14:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   347 > 375            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



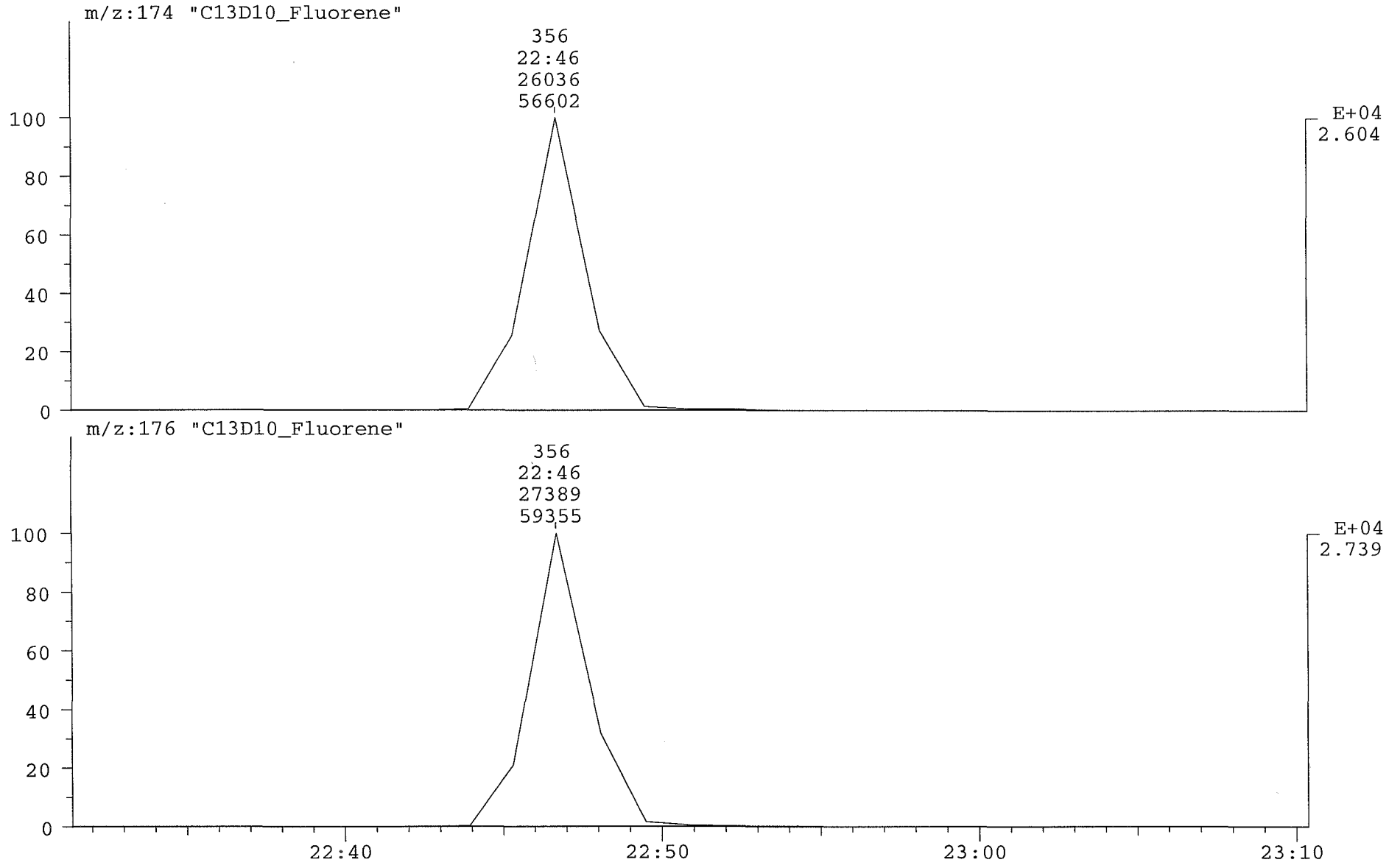
```
CHRO:  y060428s1                              28-APR-06   Elapse:   49:19       1735
Samp:  WO=3377:01_4 Meth=YA1 Dil=1                        Start :   14:18:00    1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   335 > 353            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



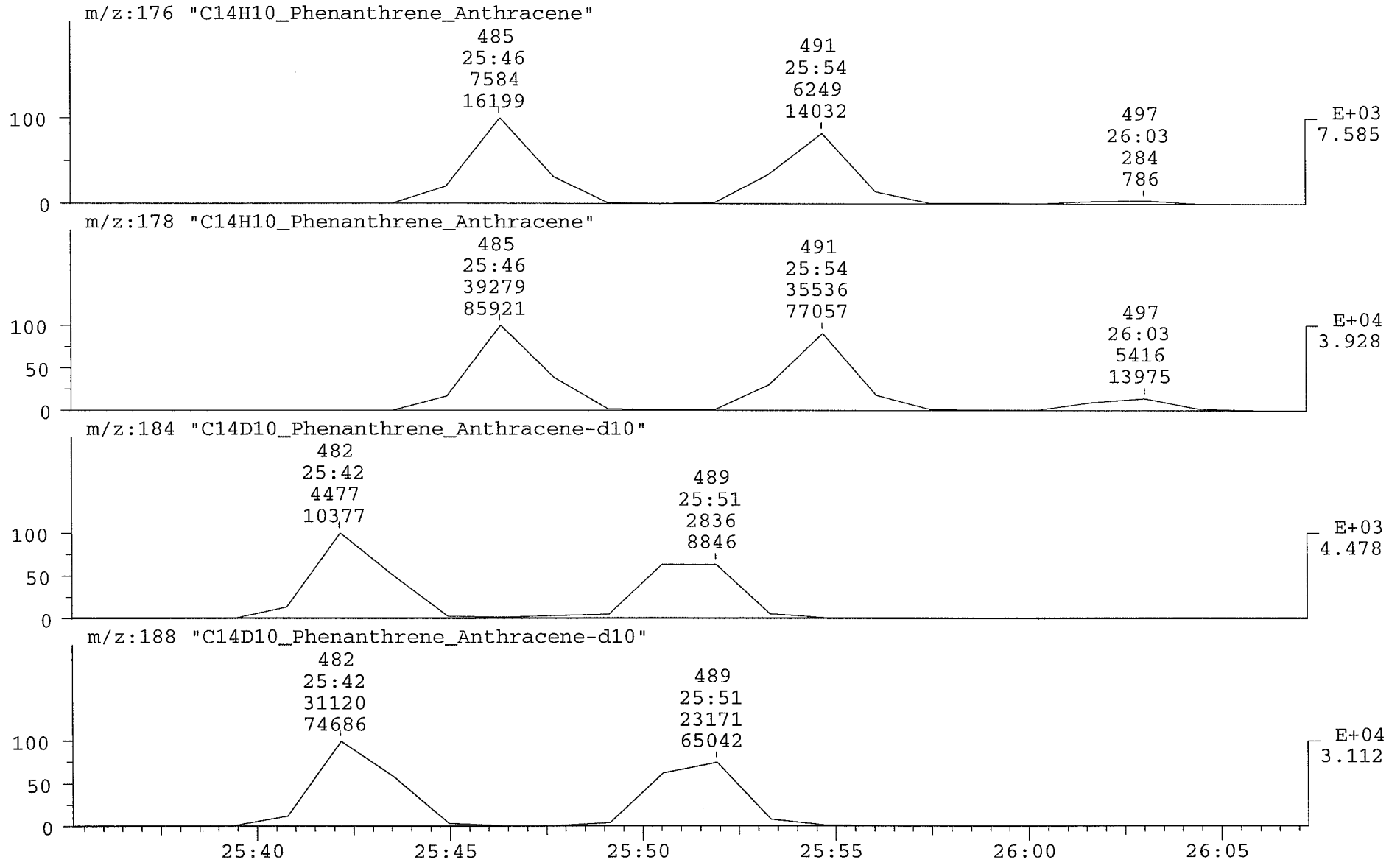
```
CHRO:  y060428s1                              28-APR-06   Elapse:   49:19      1735
Samp:  WO=3377:01_4 Meth=YA1 Dil=1                        Start :   14:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   351 > 371            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



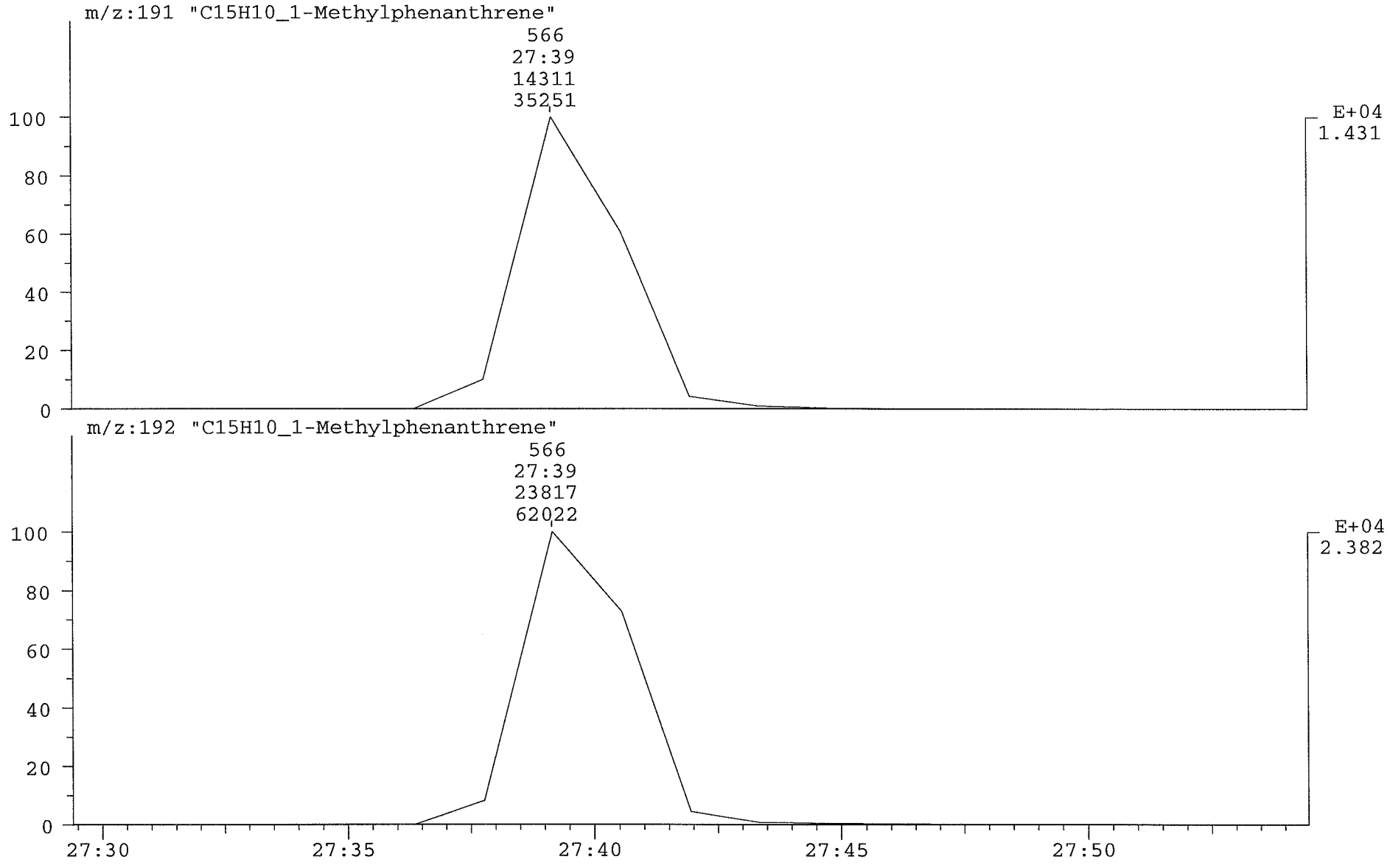
```
CHRO:  y060428s1                              28-APR-06   Elapse:   49:19      1735
Samp:  WO=3377:01_4 Meth=YA1 Dil=1                        Start :   14:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   345 > 373            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



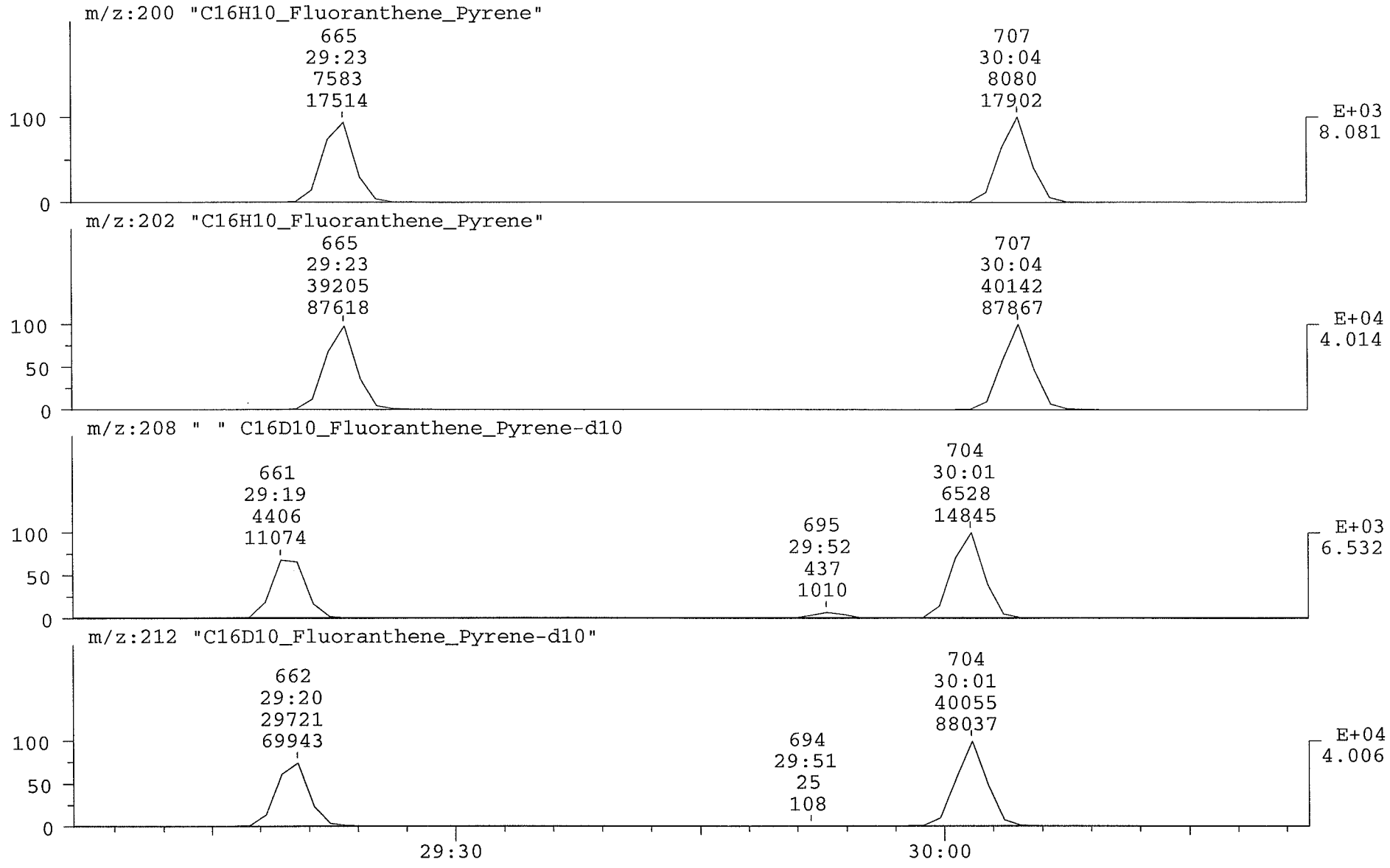
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



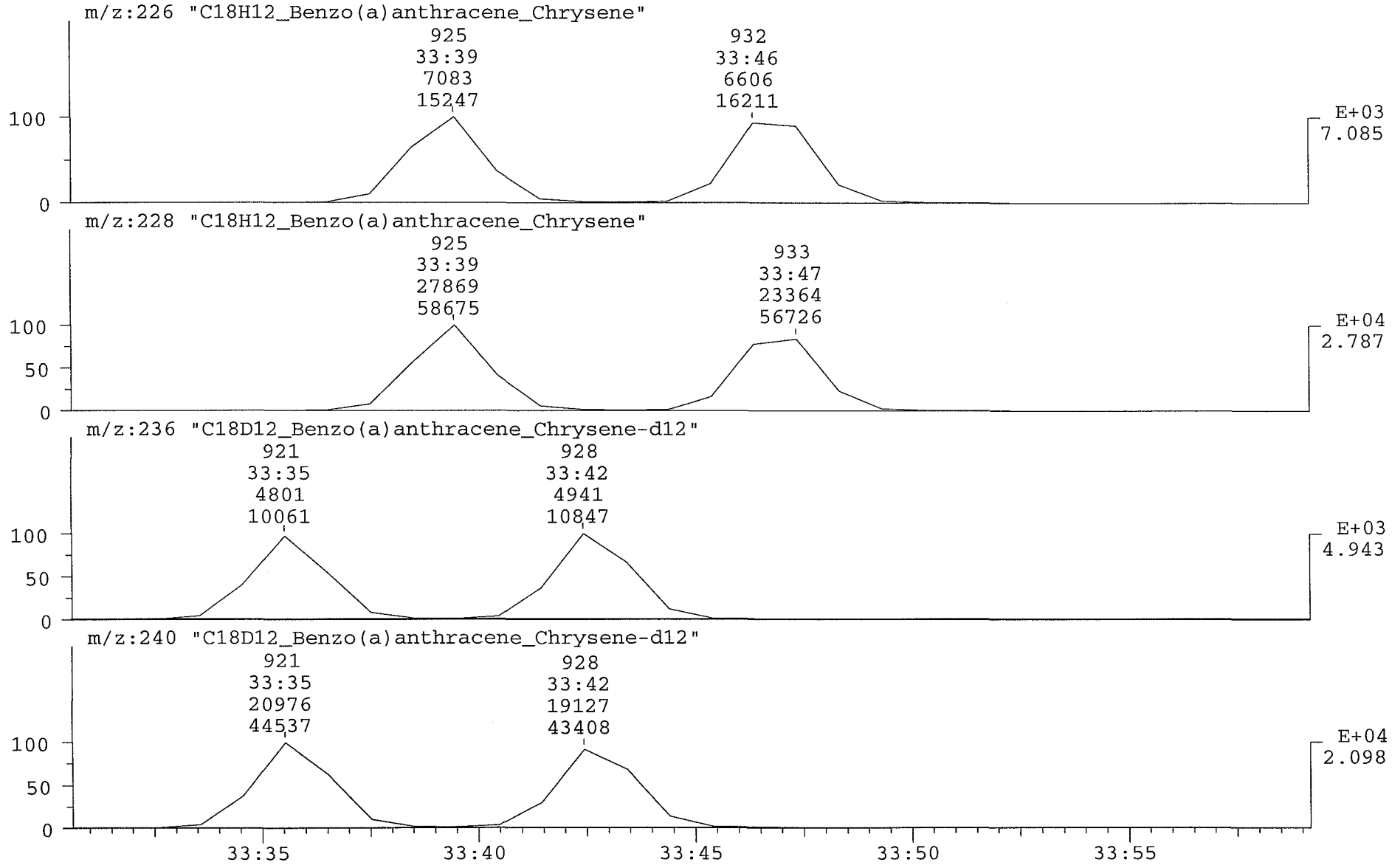
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



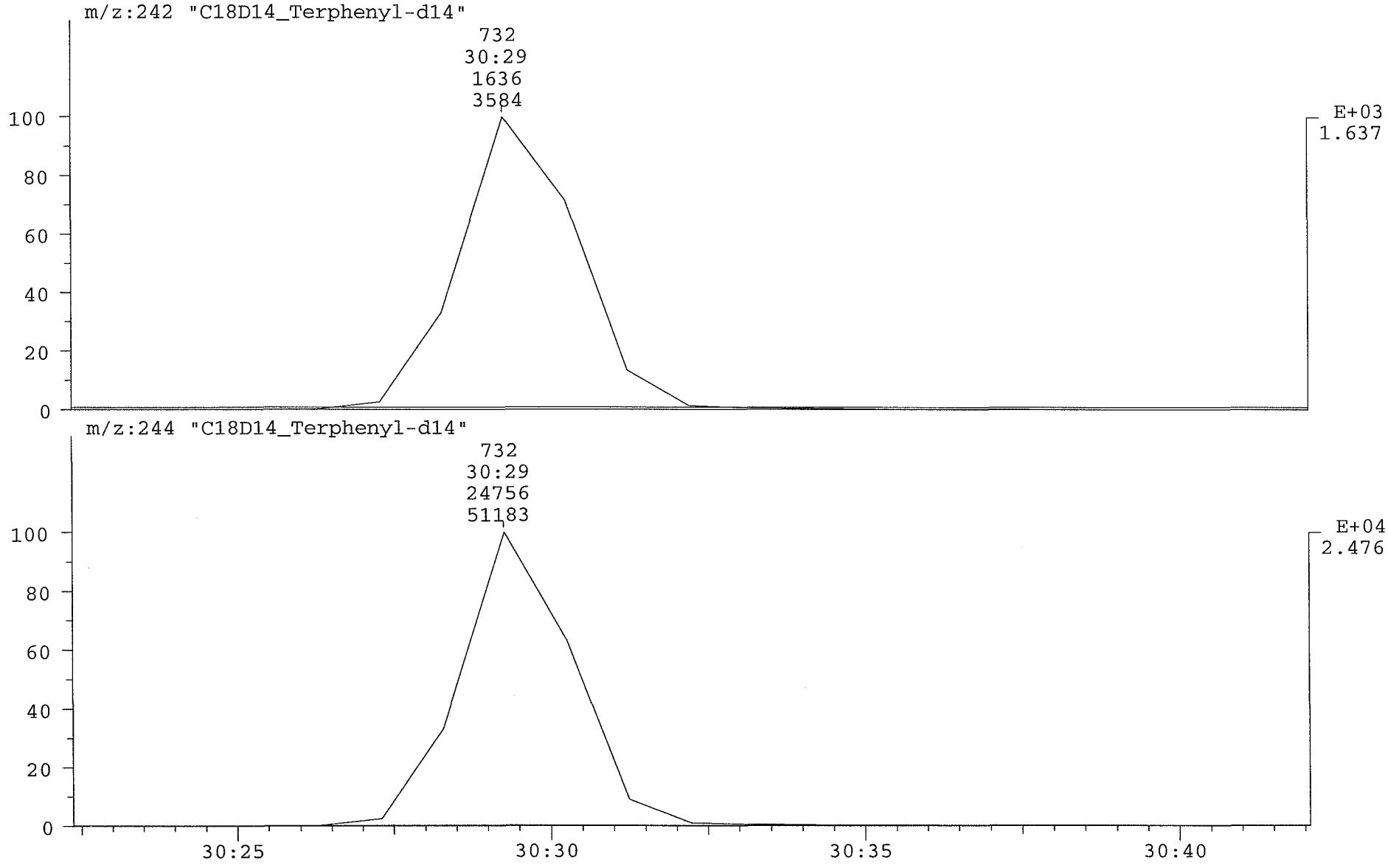
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



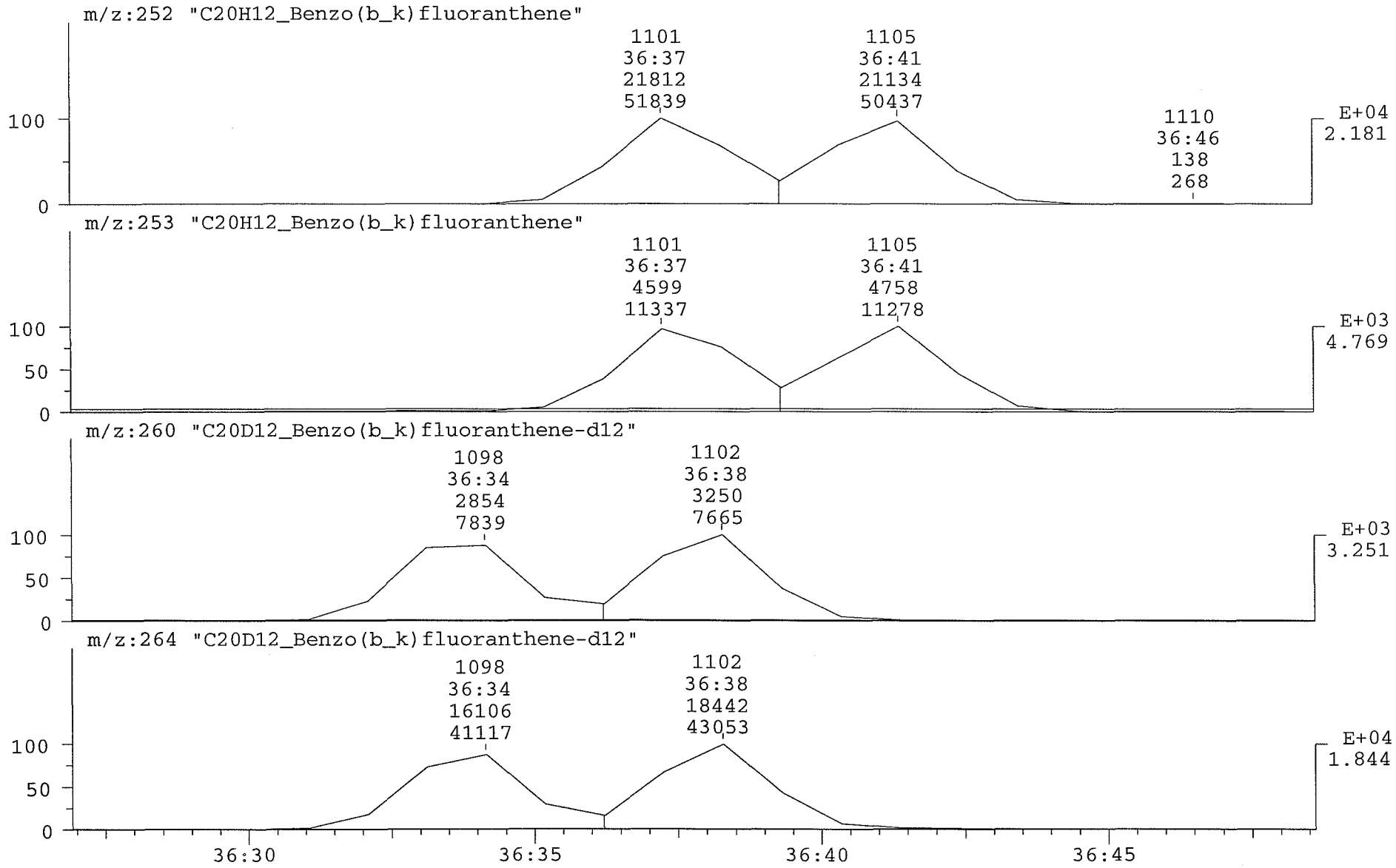
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



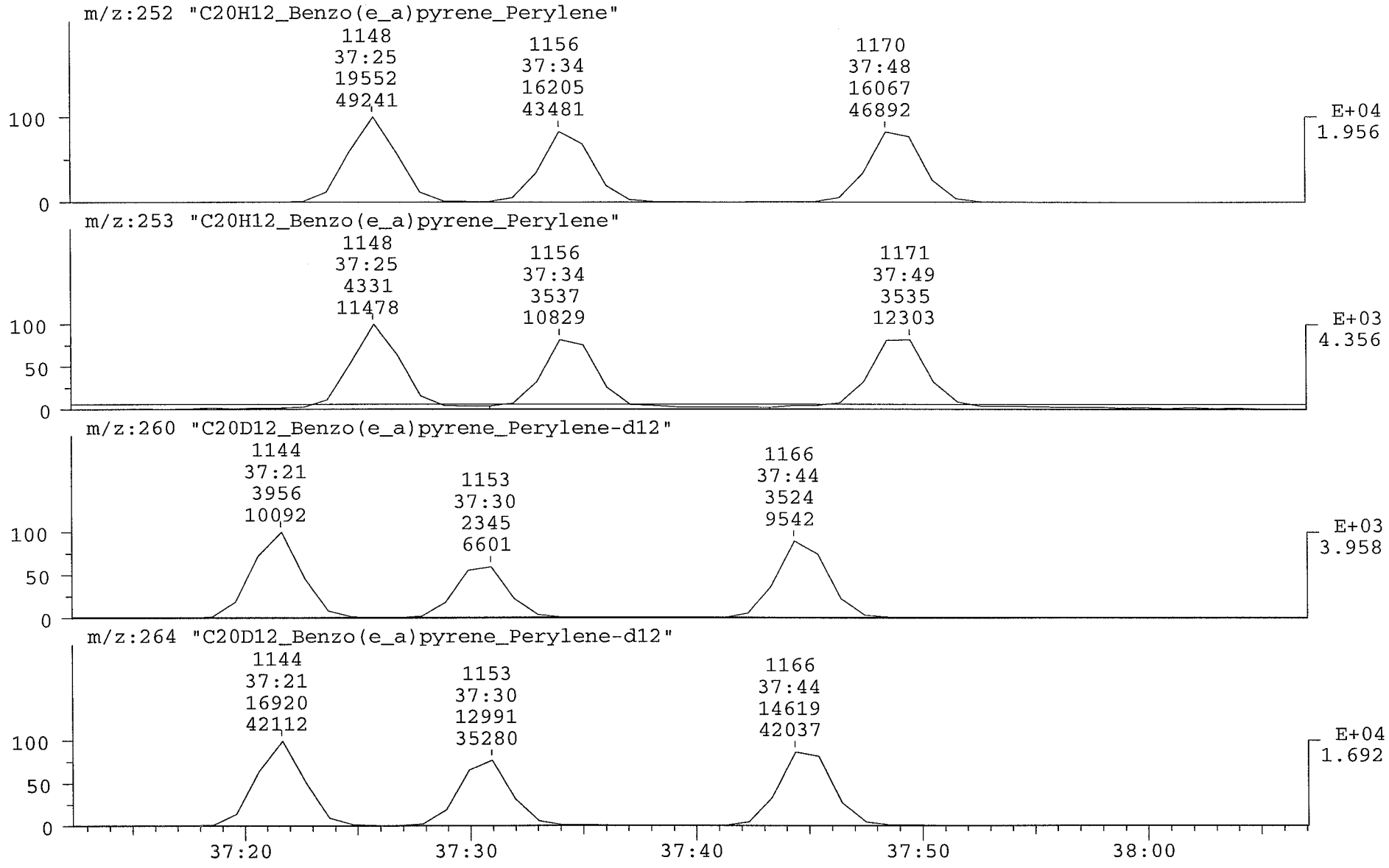
```
CHRO:  y060428s1                              28-APR-06   Elapse:   49:19      1735
Samp:  WO=3377:01_4 Meth=YA1 Dil=1                        Start :   14:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   725 > 745            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3               Label :   -2, 3.0
Disp:  Height  Area
```



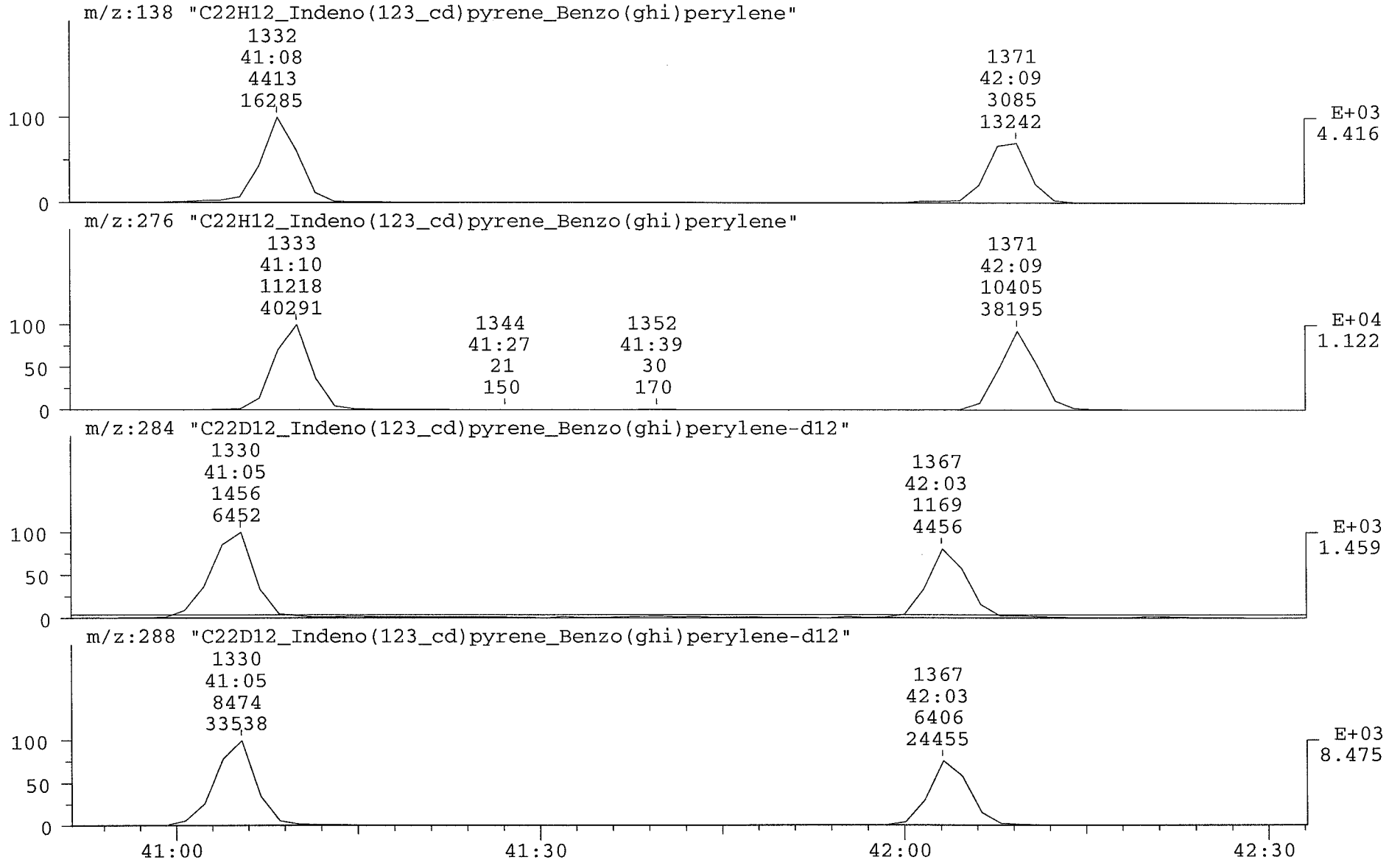
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



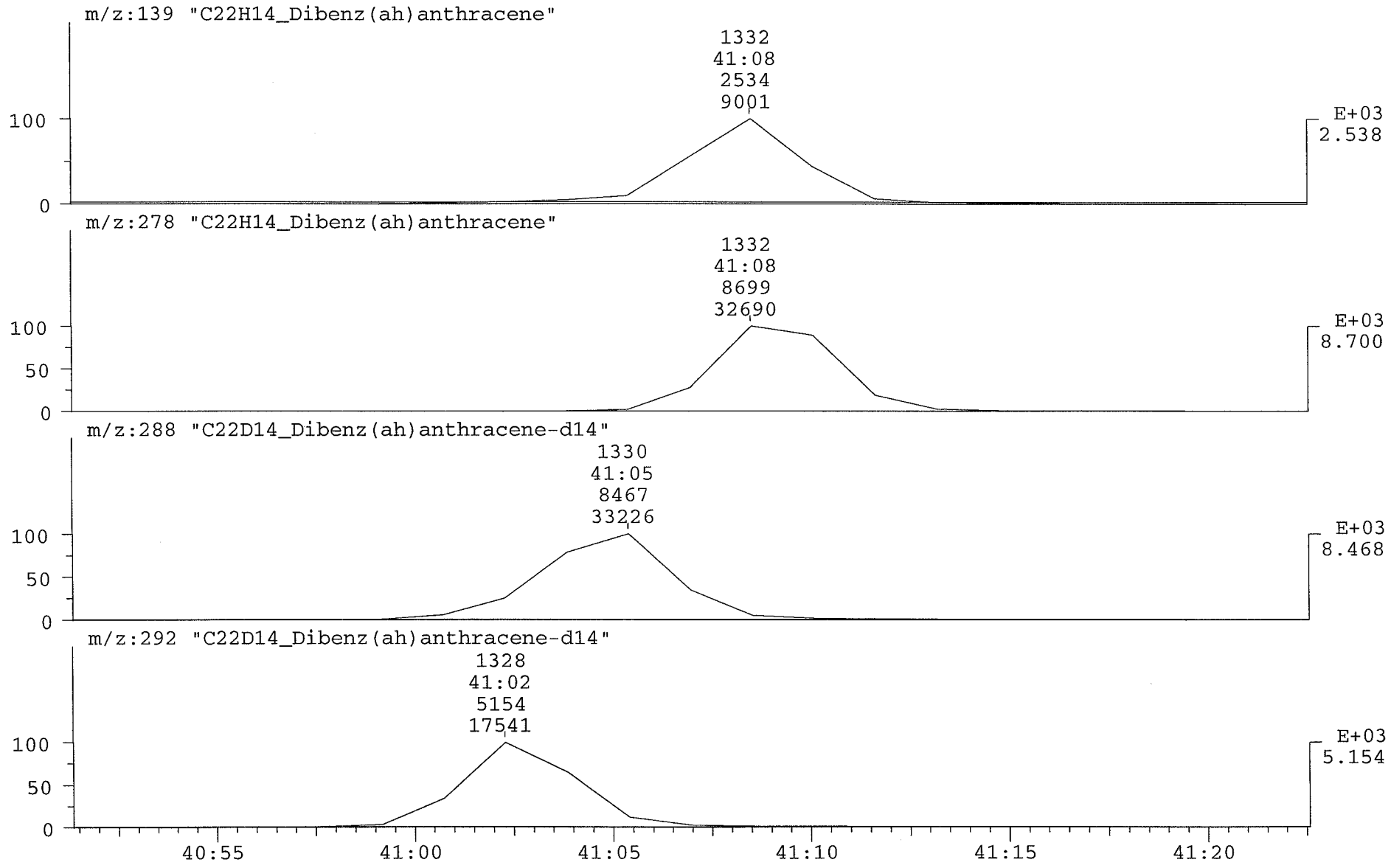
CHRO: y060428s1 28-APR-06 Elapse: 49:19 1735
Samp: WO=3377:01_4 Meth=YA1 Dil=1 Start : 14:18:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : PAH Ver
Oper: JMN Client: STL Knoxville Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
CHRO:  y060428s1                              28-APR-06   Elapse:   49:19      1735
Samp:  WO=3377:01_4 Meth=YA1 Dil=1                        Start :   14:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville               Inlet :
Peak:  100.00  ppm     Label wndw:   1321 > 1387          Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1               Label :   -2, 3.0
Disp:  Height  Area
```



```
CHRO:  y060428s1                          28-APR-06   Elapse:   49:19      1735
Samp:  WO=3377:01_4 Meth=YA1 Dil=1                    Start :   14:18:00   1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF               Study :   PAH Ver
Oper:  JMN           Client:  STL Knoxville           Inlet :
Peak:  100.00  ppm     Label wndw:   1321 > 1341      Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 1           Label :   -2, 3.0
Disp:  Height  Area
```



```
File: Y60428S1.D
Date Acquired: 28 Apr 2006   2:18 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: Y060428S1
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  2
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Fri Apr 28 15:13:44 2006
d:\cdffiles\Y60428S1.CDF Translated at Fri Apr 28 15:13:44 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Fri Apr 28 09:40:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60428s1.dat
NetCDF File (input): /usr/users/hp/data/y60428s1.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Fri Apr 28 09:40:01 EDT 2006

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

Raw QC Data

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H6D100000 - 051B **Work Order #....:** H2W5L1AA **Matrix....:** AIR
Dilution Factor: 1
Prep Date....: 04/10/06 **Analysis Date....:** 04/13/06
Prep Batch # ....: 6100051
Initial Wgt/Vol : 1 Sample **Instrument ID....:** H2A **Method:** KNOX ID-0016
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**4.2**	**J**	**20**	**1.1**	**ng/sampl**
Acenaphthylene	ND		20	0.17	ng/sampl
Anthracene	ND		20	0.25	ng/sampl
Benzo(a)anthracene	**1.6**	**J**	**20**	**0.24**	**ng/sampl**
Benzo(b)fluoranthene	**4.2**	**J**	**20**	**1.0**	**ng/sampl**
Benzo(k)fluoranthene	**4.7**	**J**	**20**	**1.2**	**ng/sampl**
Benzo(ghi)perylene	ND		20	0.47	ng/sampl
Benzo(a)pyrene	**5.0**	**J**	**20**	**1.5**	**ng/sampl**
Benzo(e)pyrene	**4.5**	**J**	**20**	**1.3**	**ng/sampl**
Chrysene	**1.8**	**J**	**20**	**0.25**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.56	ng/sampl
Fluoranthene	**1.1**	**J**	**20**	**0.15**	**ng/sampl**
Fluorene	**1.3**	**J**	**20**	**0.38**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	**3.6**	**J**	**20**	**0.46**	**ng/sampl**
2-Methylnaphthalene	**5.6**	**J**	**20**	**0.53**	**ng/sampl**
Naphthalene	**12**	**J**	**20**	**0.29**	**ng/sampl**
Perylene	**4.4**	**J**	**20**	**1.5**	**ng/sampl**
Phenanthrene	**1.9**	**J**	**20**	**0.22**	**ng/sampl**
Pyrene	**2.5**	**J**	**20**	**0.14**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	101	15 - 120
2-Methylnaphthalene-d10	104	20 - 120
Acenaphthylene-d8	106	20 - 120
Phenanthrene-d10	104	30 - 120
Fluoranthene-d10	108	30 - 120
Benzo(a)anthracene-d12	107	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	116	30 - 120
Benzo(k)fluoranthene-d12	98	30 - 120
Benzo(a)pyrene-d12	97	30 - 120
Perylene-d12	102	30 - 120
Indeno(1,2,3-cd)pyrene-d12	101	30 - 120
Dibenz(ah)anthracene-d14	101	30 - 120
Benzo(ghi)perylene-d12	105	30 - 120

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H6D100000 - 051B	**Work Order #....:**	H2W5L1AA	**Matrix.....:**	AIR
Dilution Factor:	1				
Prep Date....:	04/10/06	**Analysis Date....:**	04/13/06		
Prep Batch # ....:	6100051				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AA	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lb.d	Prep Date	04/10/06	SDG No	
Analysis ID	90126	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/13/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	22:09 ✓	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1 ✓	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample ✓		DL (ng/samp
Naphthalene-d8	15:58	89275	28202	1.748	500.0 ✓	506.144749	101.23	506.144749		0.477
Naphthalene	16:01	2683	666	1.211		12.410523		12.410523	J	0.293
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:04	828	292	1.269		5.644561		5.644561	J	0.528
2-Methylnaphthalene-d10	17:59	57816	20538	1.104	500.0	519.074782	103.81	519.074782		0.349
1-Methylnaphthalene	18:23	414	166	1.365		2.998787		2.998787	J	0.500
1-Methylnaphthalene-d10	18:18	50580	20134	0.958	500.0	523.044217	104.61	523.044217		0.402
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl				1.533				ND		0.913
2,6-Dimethylnaphthalene	19:56	478	144	1.249		3.680871		3.680871	J	2.06
2,6-Dimethylnaphthalene-d1	19:49	51970	17982	0.977	500.0	527.325707	105.47	527.325707		0.657
C2 Alkylnaphthalenes				1.249		3.680871		3.680871	J	1.31
Acenaphthylene				1.244				ND		0.173
Acenaphthylene-d8	20:46	82723	34769	1.548	500.0	529.553231	105.91	529.553231		0.332
Acenaphthene-d10	21:17	50449	19474	1.000	500.0	500.000000	100.00	500.000000		0.706
Acenaphthene	21:23	524	255	0.762		4.154733		4.154733	J	1.08
2,3,5-Trimethylnaphthalene				1.127				ND		0.247
C3 Alkylnaphthalenes				1.127				ND		0.157
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene	22:53	197	49	0.915		1.256459		1.256459	J	0.376
Phenanthrene-d10	25:43	85676	32684	0.753	500.0	519.934070	103.99	519.934070		0.152
Phenanthrene	25:47	402	172	1.216		1.928761		1.928761	J	0.220
Anthracene-d10								ND		0.000000
Anthracene				1.059				ND		0.253
1-Methylphenanthrene	27:40	136	44	0.870		0.911978		0.911978	J	0.483
Fluoranthene-d10	29:21	85826	38232	0.727	500.0	539.957564	107.99	539.957564		0.237
Fluoranthene	29:24	247	96	1.334		1.078872		1.078872	J	0.147
Pyrene-d10	30:03	109385	43566	1.000	500.0	500.000000	100.00	500.000000		0.172
Pyrene	30:06	576	208	1.369		2.451493		2.451493	J	0.143
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:37	60916	28999	0.521	500.0	534.462230	106.89	534.462230		0.496
Benzo(a)anthracene	33:41	288	136	1.454		1.626154		1.626154	J	0.237
Chrysene-d12	33:44	63169	29768	0.557	500.0	518.650058	103.73	518.650058		0.464
Chrysene	33:48	310	128	1.363		1.800292		1.800292	J	0.246
Benzo(b)Fluoranthene-d12	36:35	64295	22947	0.847	500.0	579.031956	115.81	579.031956		0.666
Benzo(k)Fluoranthene-d12	36:40	64410	25996	1.002	500.0	490.170389	98.03	490.170389		0.563
Benzo(b)fluoranthene	36:39	814	341	1.508		4.198841		4.198841	J	1.01
Benzo(k)fluoranthene	36:43	688	256	1.136		4.699372		4.699372	J	1.18
Benzo(e)pyrene-d12	37:23	65540	26577	1.000	500.0	500.000000	100.00	500.000000		0.564
Benzo(e)pyrene	37:27	677	249	1.589		4.530120		4.530120	J	1.28
Benzo(a)Pyrene-d12	37:33	47039	17280	0.737	500.0	486.975366	97.40	486.975366		0.766
Benzo(a)pyrene	37:36	629	203	1.333		5.016930		5.016930	J	1.52
Perylene-d12	37:47	59214	20001	0.887	500.0	509.564000	101.91	509.564000		0.637
Perylene	37:51	611	196	1.178		4.380843		4.380843	J	1.49
3-Methylcholanthrene								ND		0.000000

VMIC 4/24/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AA	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lb.d	Prep Date	04/10/06	SDG No	
Analysis ID	90126	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/13/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	22:09	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	26706	7562	0.405	500.0	503.564247	100.71	503.564247		0.814
Indeno(1,2,3-cd)pyrene-d12	41:08	51700	12514	0.779	500.0	506.290426	101.26	506.290426		0.362
Indeno(1,2,3-cd)pyrene	41:13	482	115	1.297		3.594643		3.594643	J	0.462
Dibenz(a,h)anthracene				2.059				ND		0.562
Benzo(ghi)Perylene-d12	42:06	38464	9432	0.559	500.0	524.675986	104.94	524.675986		0.505
Benzo(ghi)perylene				1.698				ND		0.468
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AA	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lb.d	Prep Date	04/10/06	SDG No	
Analysis ID	90126	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/13/06 22:09	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
128					128.0000		128.0000			
	Noise	00:00	00:00	0	20		8			
	Naphthalene	16:01	16:02	-1	2683		666			ABB
136					136.0000		136.0000			
	Noise	00:00	00:00	0	33		13			
	Naphthalene-d8	15:58	15:58	0	89275		28202			ABB
142					142.0000		142.0000			
	Noise	00:00	00:00	0	28		11			
	2-Methylnaphthalene	18:04	18:03	1	828		292			ABB
	1-Methylnaphthalene	18:23	18:23	0	414		166			ABB
152					152.0000		152.0000			
	Noise	00:00	00:00	0	15		6			
	2-Methylnaphthalene-d10	17:59	17:58	1	57816		20538			ABV
	1-Methylnaphthalene-d10	18:18	18:17	1	50580		20134			AVB
154					154.0000		154.0000			
	Noise	00:00	00:00	0	58		23			
	Acenaphthene	21:23	21:22	1	524		255			MBB
156					156.0000		156.0000			
	Noise	00:00	00:00	0	93		37			
	2,6-Dimethylnaphthalene	19:56	19:55	1	478		144			MVV
160					160.0000		160.0000			
	Noise	00:00	00:00	0	20		8			
	Acenaphthylene-d8	20:46	20:47	-1	82723		34769			ABB
162					162.0000		162.0000			
	Noise	00:00	00:00	0	15		6			
164					164.0000		164.0000			
	Noise	00:00	00:00	0	28		11			
	Acenaphthene-d10	21:17	21:16	1	50449		19474			ABV
166					166.0000		166.0000			
	Noise	00:00	00:00	0	23		9			
	Fluorene	22:53	22:52	1	197		49			ABB
168					168.0000		168.0000			
	Noise	00:00	00:00	0	25		10			
	2,6-Dimethylnaphthalene	19:49	19:48	1	51970		17982			ABB
169					169.0000		169.0000			
	Noise	00:00	00:00	0	18		7			
170					170.0000		170.0000			
	Noise	00:00	00:00	0	10		4			
172					172.0000		172.0000			
	Noise	00:00	00:00	0	8		3			
176					176.0000		176.0000			
	Noise	00:00	00:00	0	18		7			
178					178.0000		178.0000			

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AA	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lb.d	Prep Date	04/10/06	SDG No	
Analysis ID	90126	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/13/06 22:09	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene	25:47	25:48	-1	402		172			MBB	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene-d10	25:43	25:44	-1	85676		32684			ABV	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	28		11				
	1-Methylphenanthrene	27:40	27:41	-1	136		44			MBB	M
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene	29:24	29:24	0	247		96			MBB	
	Pyrene	30:06	30:05	1	576		208			MVB	
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene-d10	29:21	29:21	0	85826		38232			ABV	
	Pyrene-d10	30:03	30:02	1	109385		43566			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	20		8				
	Benzo(a)anthracene	33:41	33:40	1	288		136			MBV	
	Chrysene	33:48	33:48	0	310		128			AVB	
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)Anthracene-d12	33:37	33:36	1	60916		28999			ABV	
	Chrysene-d12	33:44	33:44	0	63169		29768			AVB	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	5		2				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	70		28				
	Benzo(b)fluoranthene	36:39	36:39	0	814		341			MBV	
	Benzo(k)fluoranthene	36:43	36:42	1	688		256			MVB	
	Benzo(e)pyrene	37:27	37:27	0	677		249			MBV	
	Benzo(a)pyrene	37:36	37:36	0	629		203			MVV	
	Perylene	37:51	37:50	1	611		196			MVB	
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	30		12				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	64295		22947			ABV	
	Benzo(k)Fluoranthene-d1	36:40	36:39	1	64410		25996			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	65540		26577			ABV	
	Benzo(a)Pyrene-d12	37:33	37:32	1	47039		17280			AVV	
	Perylene-d12	37:47	37:46	1	59214		20001			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	45		18				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AA	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lb.d	Prep Date	04/10/06	SDG No	
Analysis ID	90126	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/13/06 22:09	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

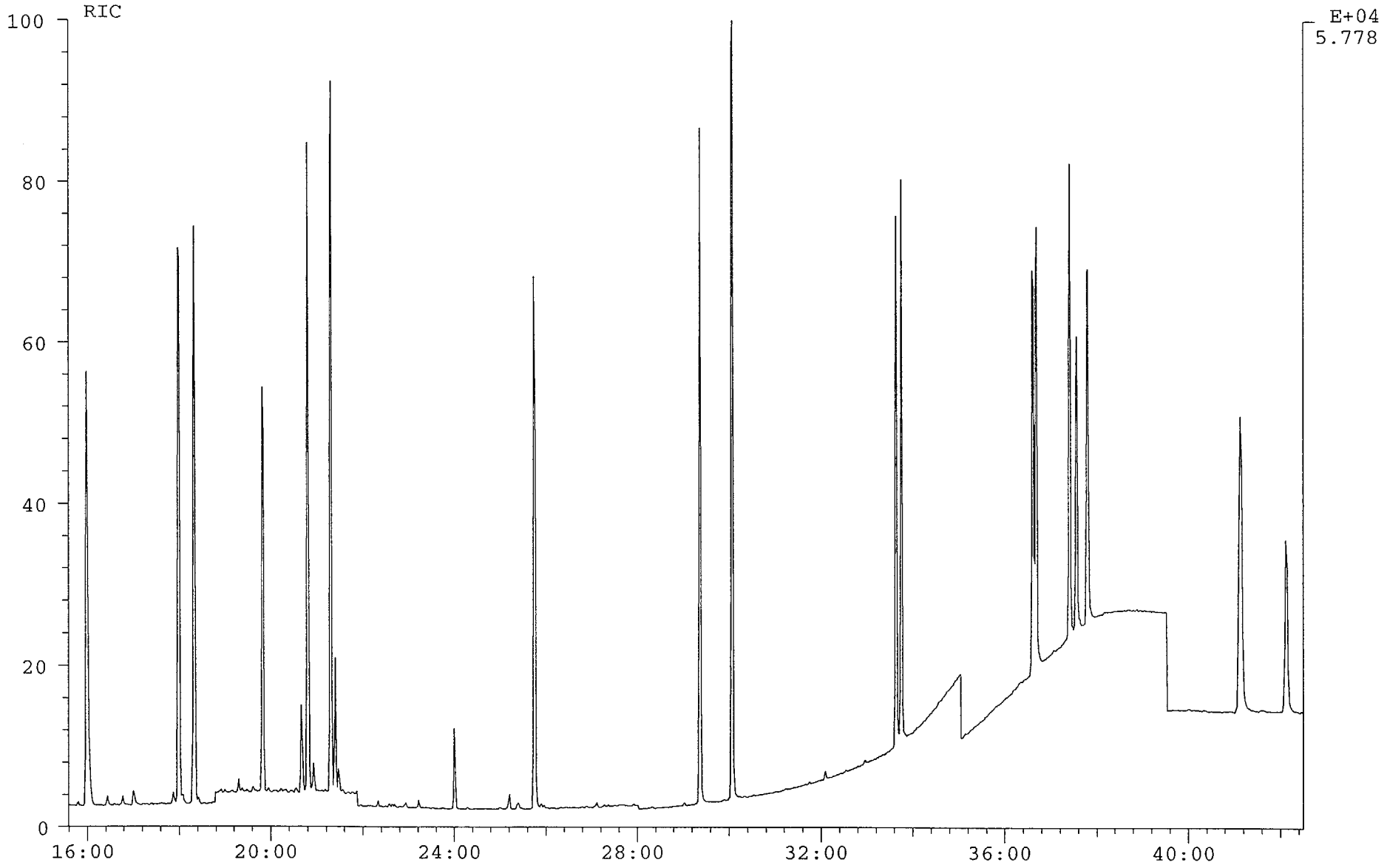
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
276					276.0000		276.0000				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	482		115			AVB	
278					278.0000		278.0000				
	Noise	00:00	00:00	0	18		7				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene-	41:08	41:08	0	51700		12514			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	38464		9432			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	18		7				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	26706		7562			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	8		3				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	8		3				

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

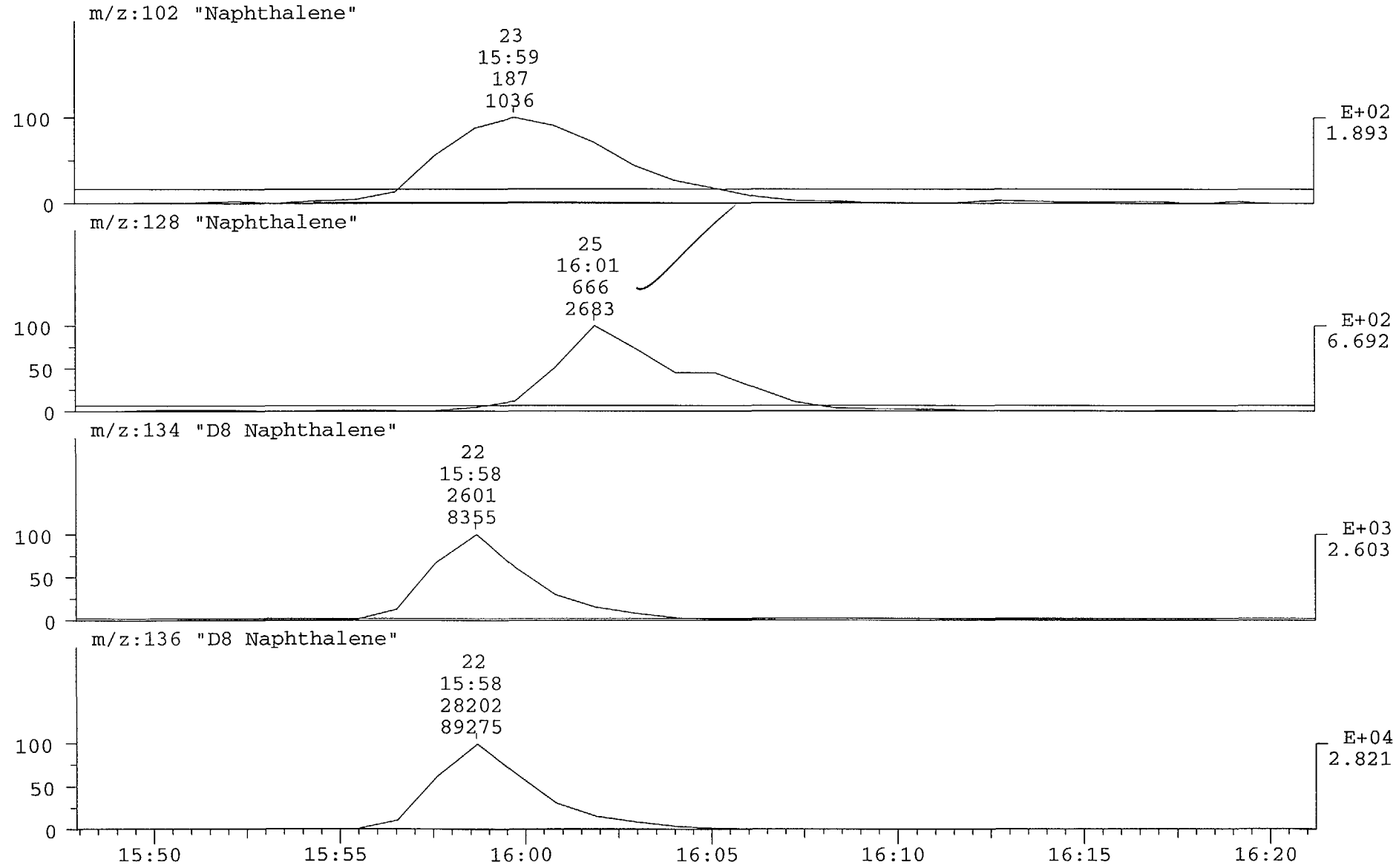
```
CHRO:  yh2w51b                                  13-APR-06   Elapse:   19:26.5      208
Samp:  WO=h2w511aa Meth=YA1 Dil=1                           Start :   22:09:00     1384
Comm:  Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                     Study :   6100051
Oper:  JMN            Client:  H6D100000-051B               Inlet :
Peak:  100.00  ppm      Label wndw:   1 > 1384              Masses:   0 > 308
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :   0, 3.0
Disp:  Height  Area
```

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

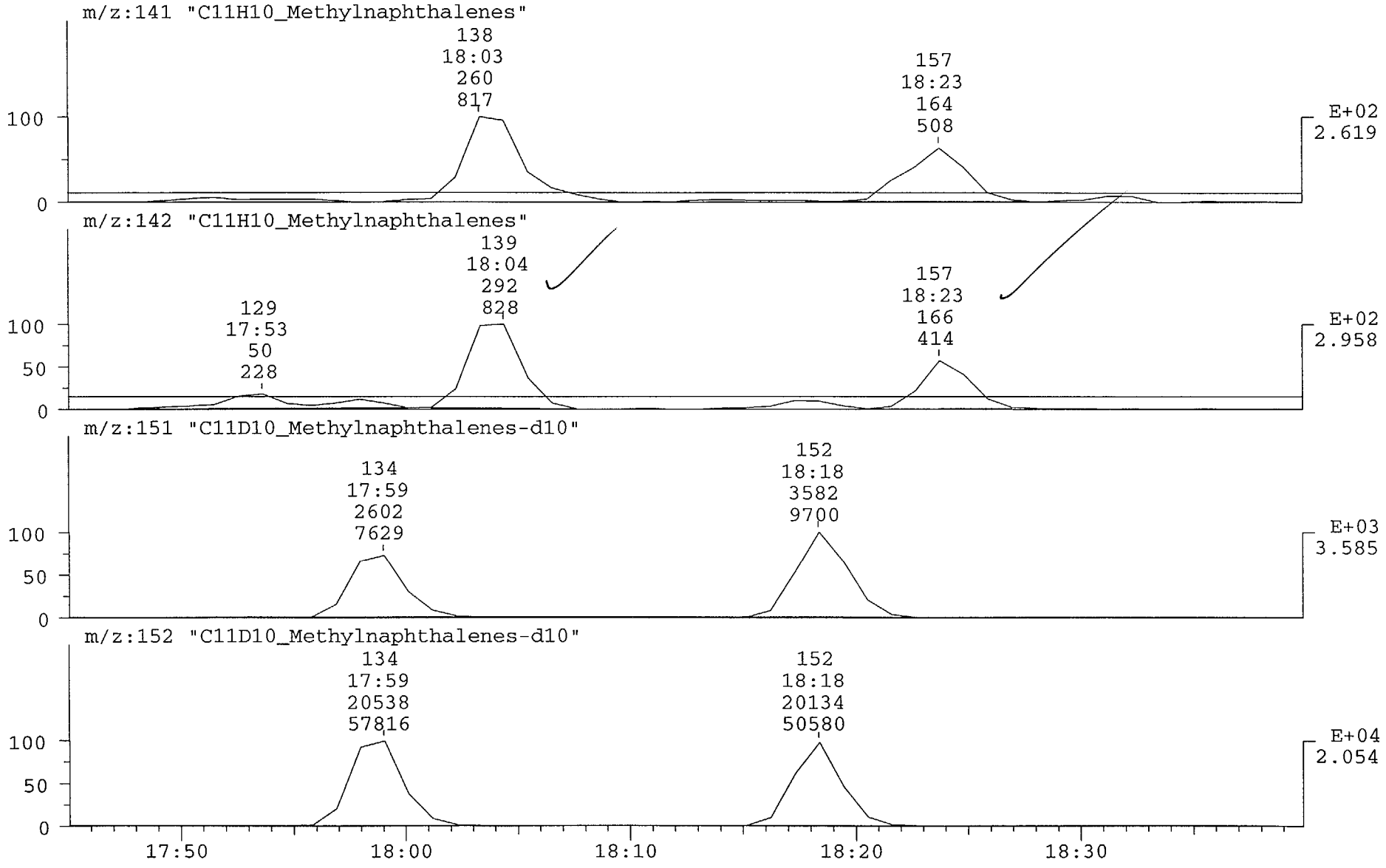


4477

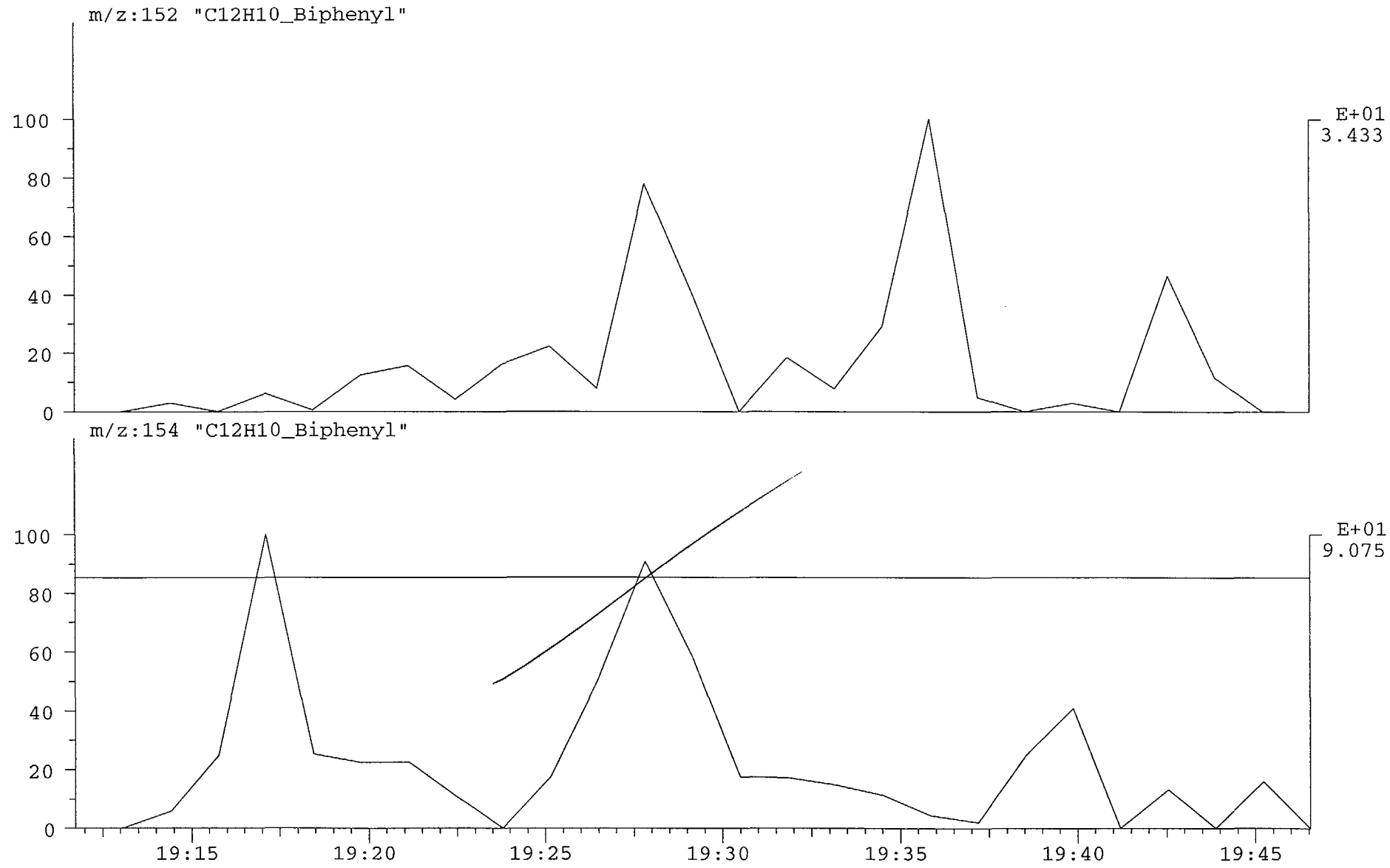
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



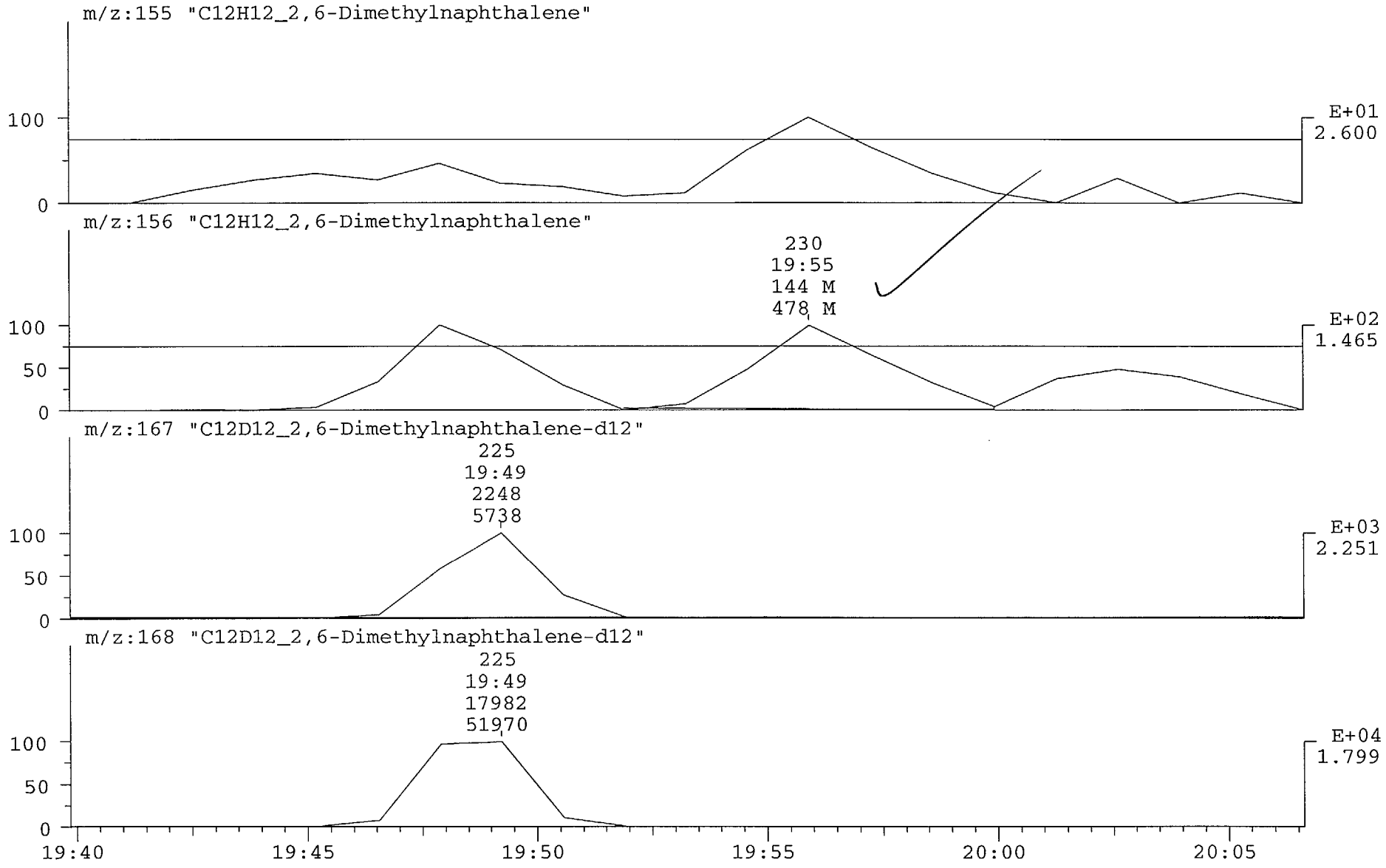
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



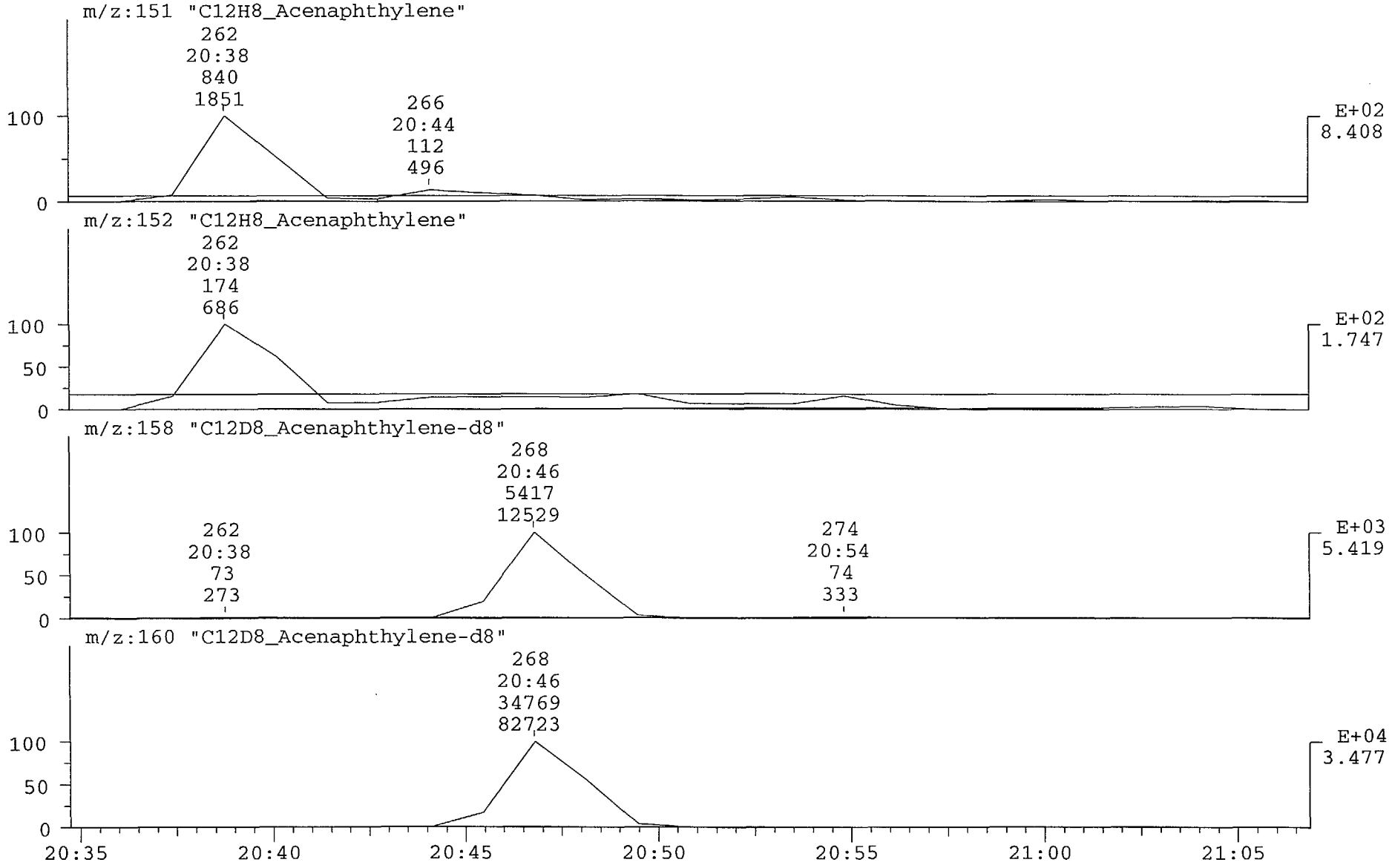
```
CHRO:  yh2w51b                                13-APR-06   Elapse:   36:44      1108
Samp:  WO=h2w511aa Meth=YA1 Dil=1                         Start :   22:09:00   1384
Comm:  Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100051
Oper:  JMN           Client:  H6D100000-051B              Inlet :
Peak:  100.00  ppm     Label wndw:   197 > 223            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



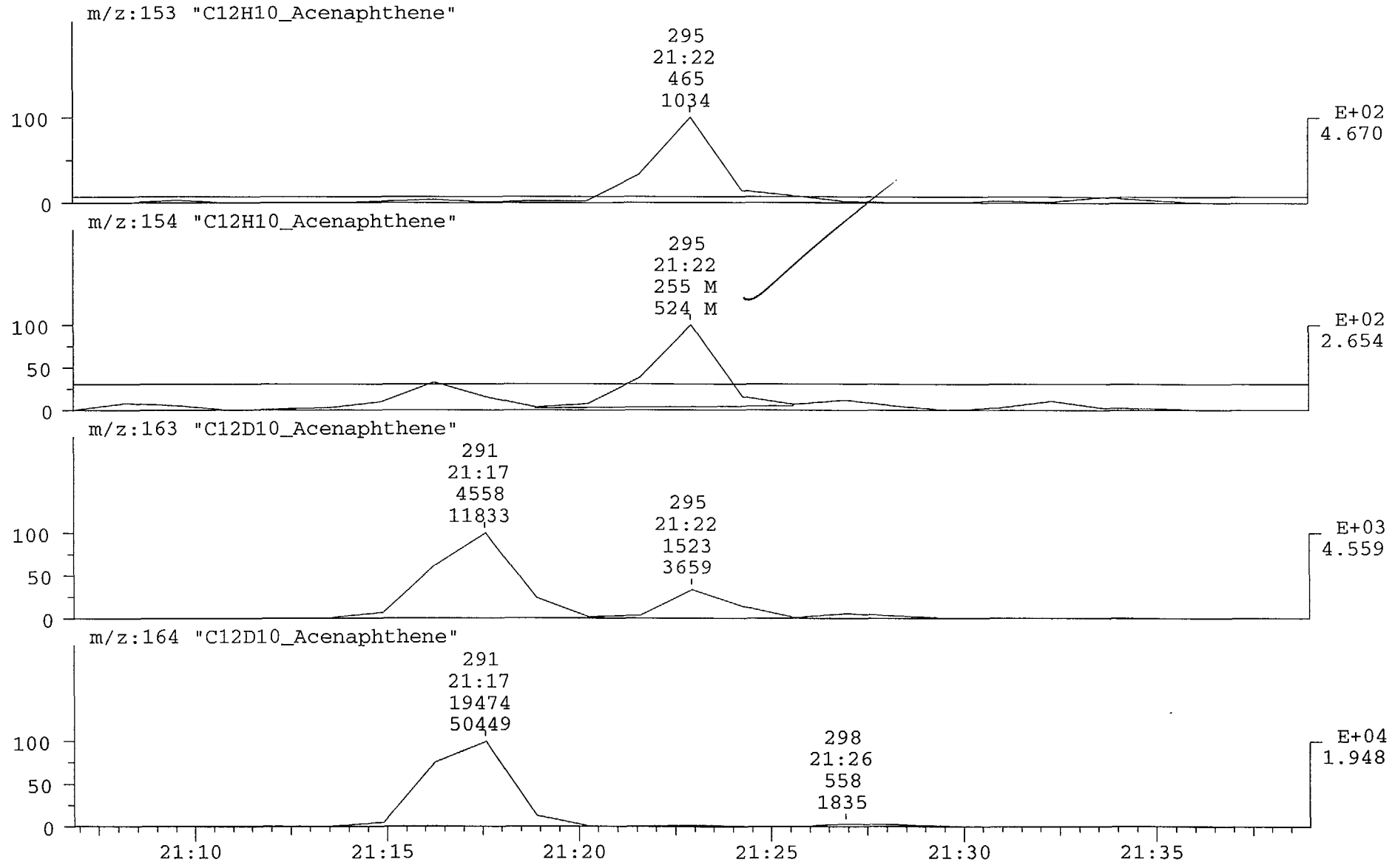
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



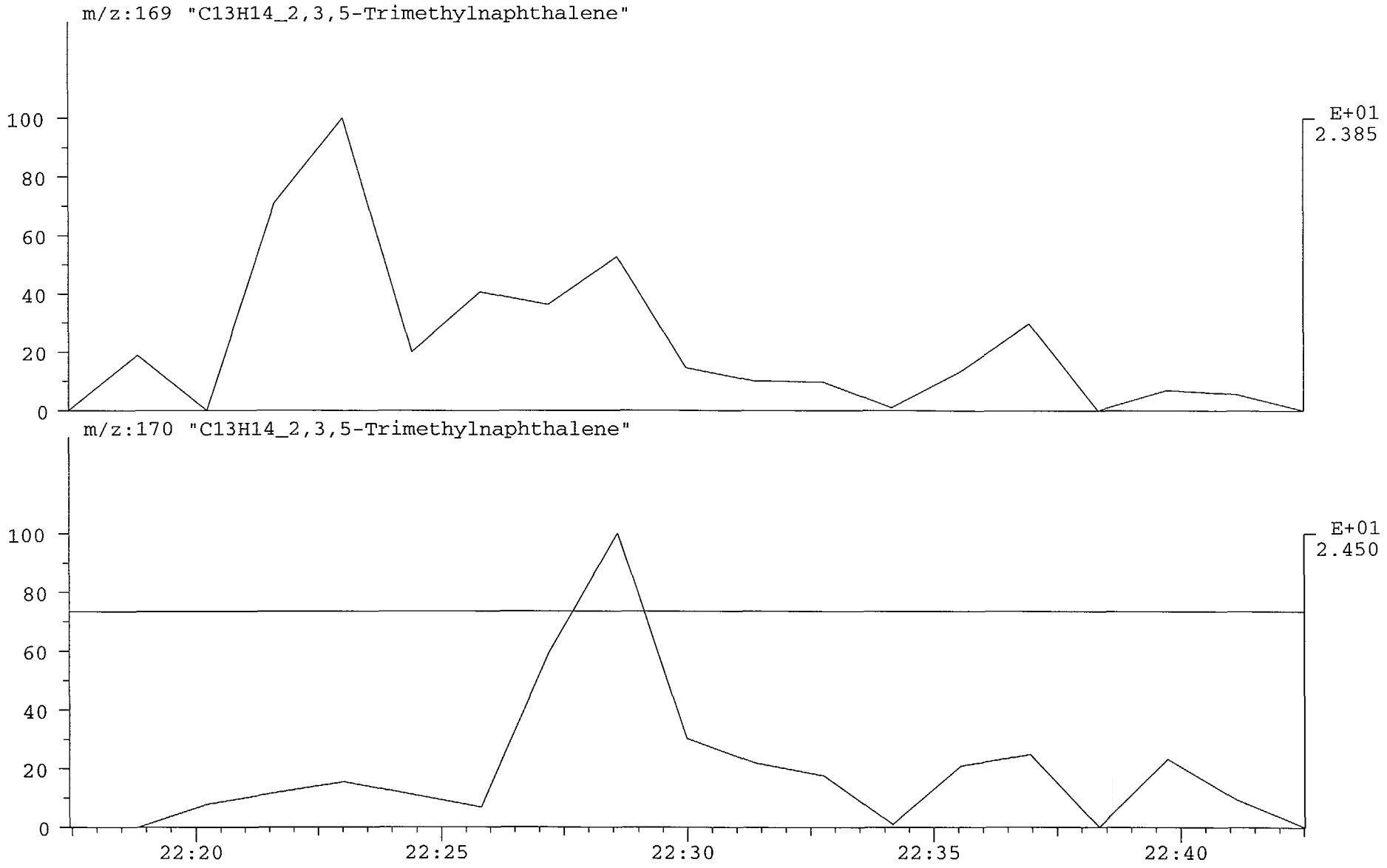
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



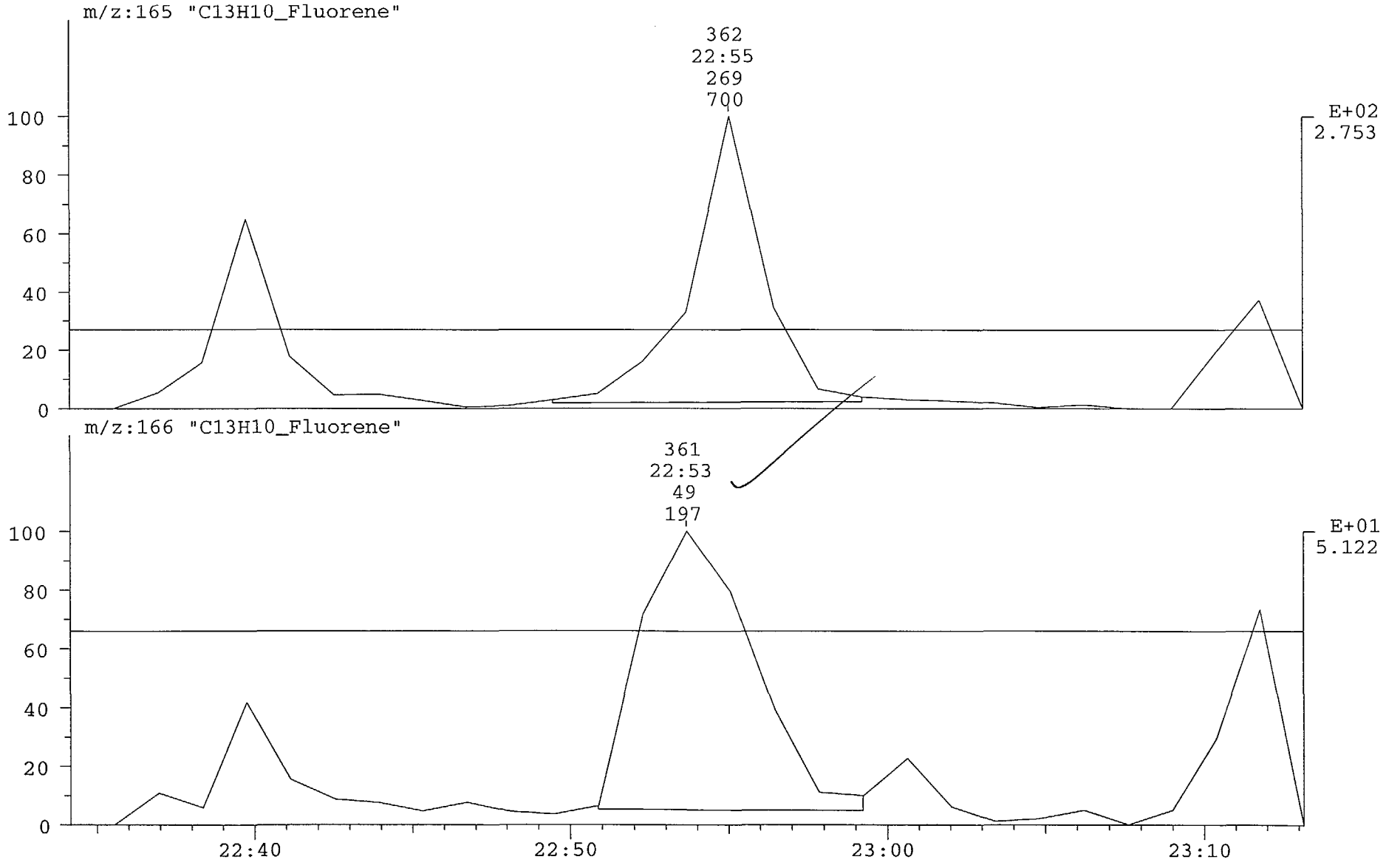
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



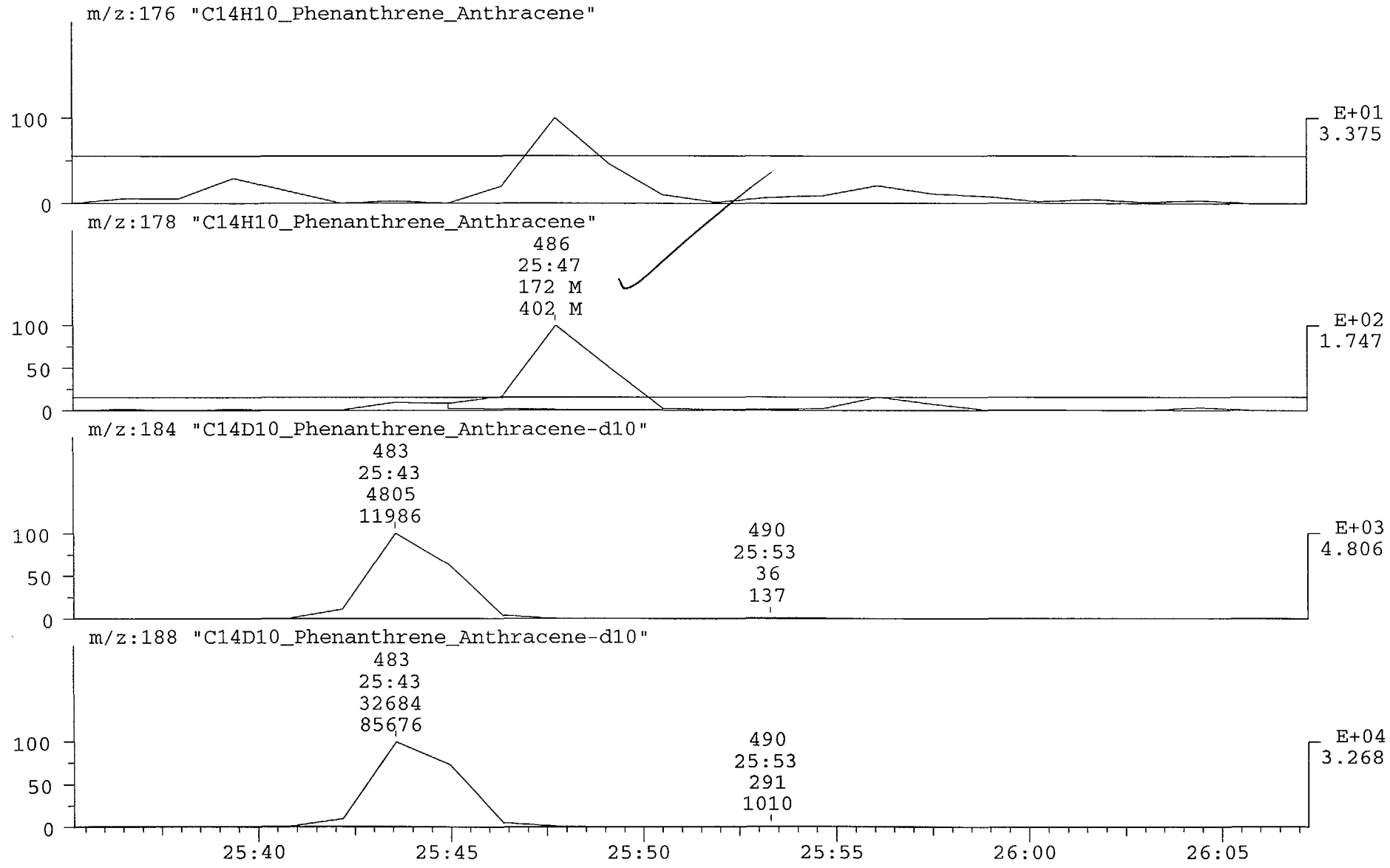
```
CHRO:  yh2w51b                                13-APR-06   Elapse:   36:44      1108
Samp:  WO=h2w511aa Meth=YA1 Dil=1                         Start :   22:09:00   1384
Comm:  Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100051
Oper:  JMN           Client:  H6D100000-051B              Inlet :
Peak:  100.00  ppm     Label wndw:   335 > 353            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



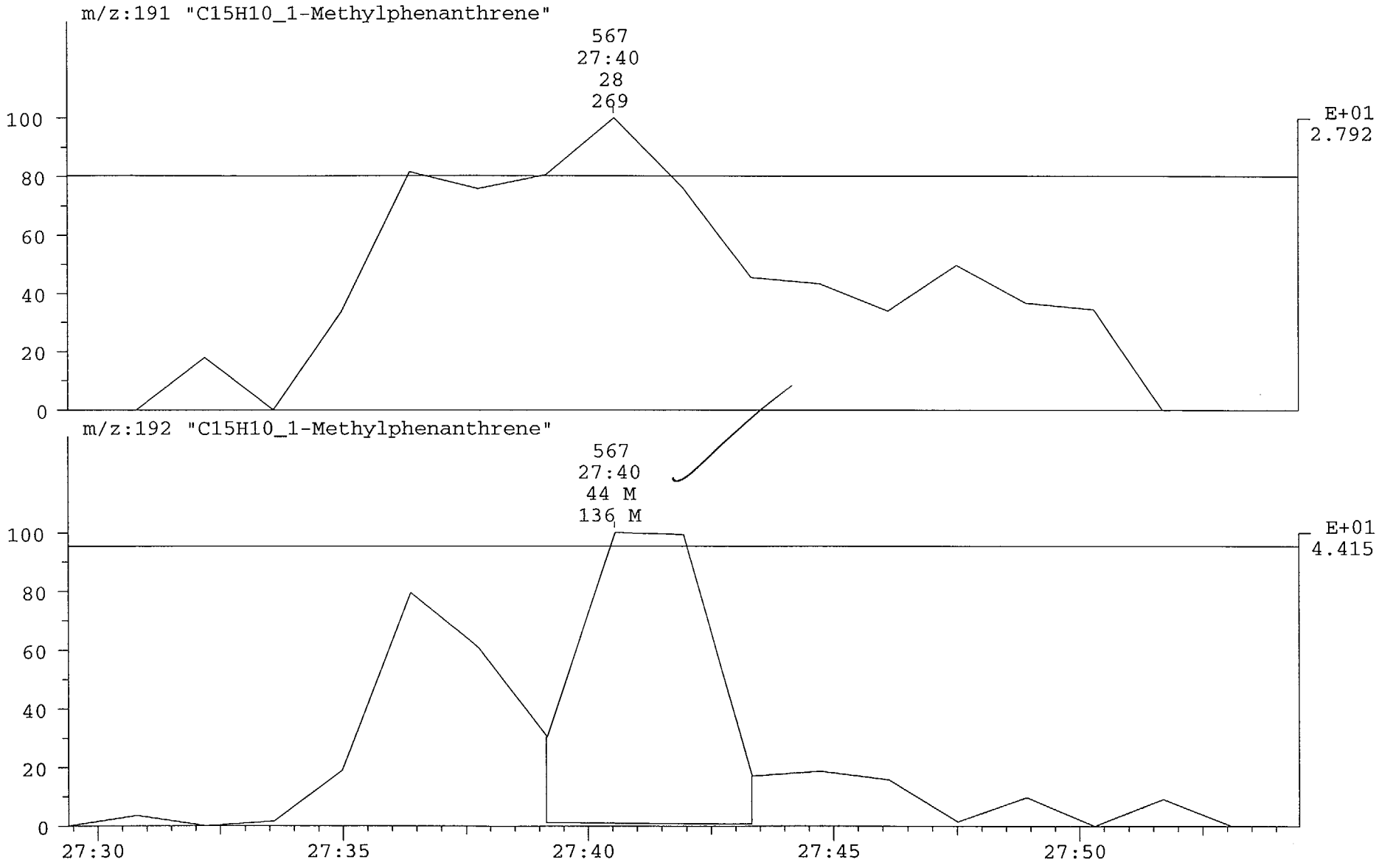
CHRO: yh2w5lb 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w5l1aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



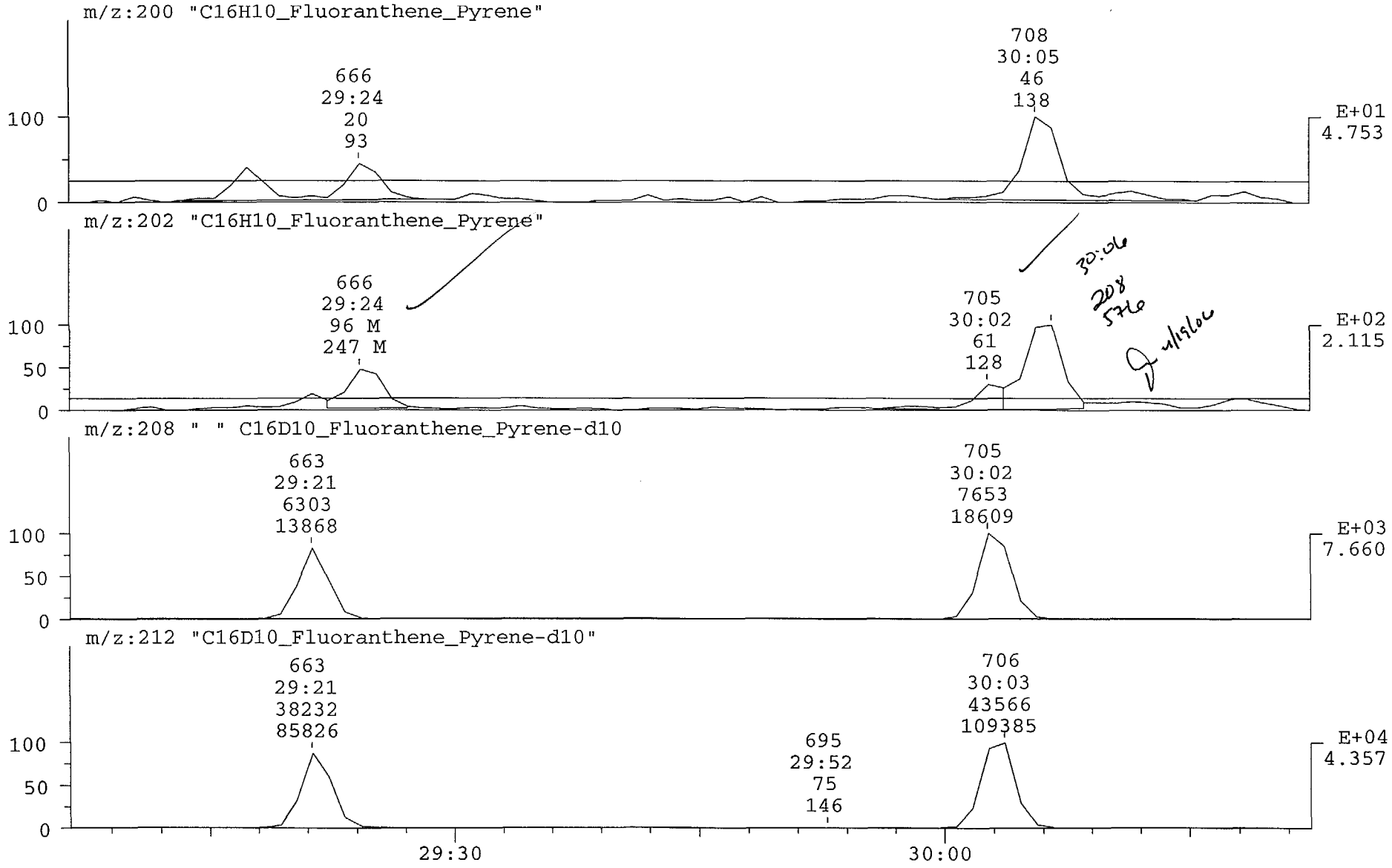
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



```
CHRO:  yh2w51b                                13-APR-06   Elapse:   36:44      1108
Samp:  WO=h2w511aa Meth=YA1 Dil=1                         Start :   22:09:00   1384
Comm:  Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100051
Oper:  JMN           Client:  H6D100000-051B              Inlet :
Peak:  100.00  ppm     Label wndw:   559 > 577            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```

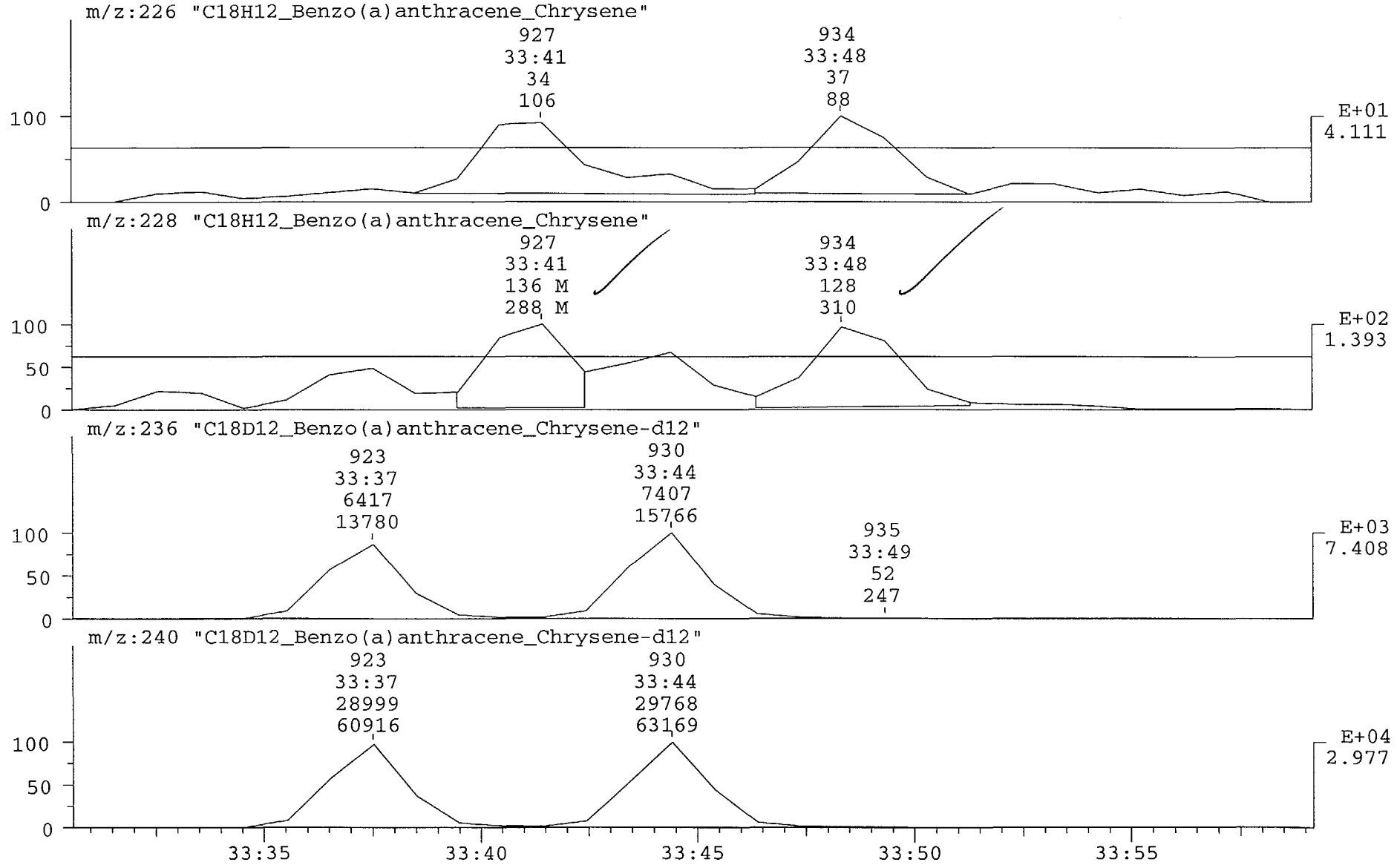


CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

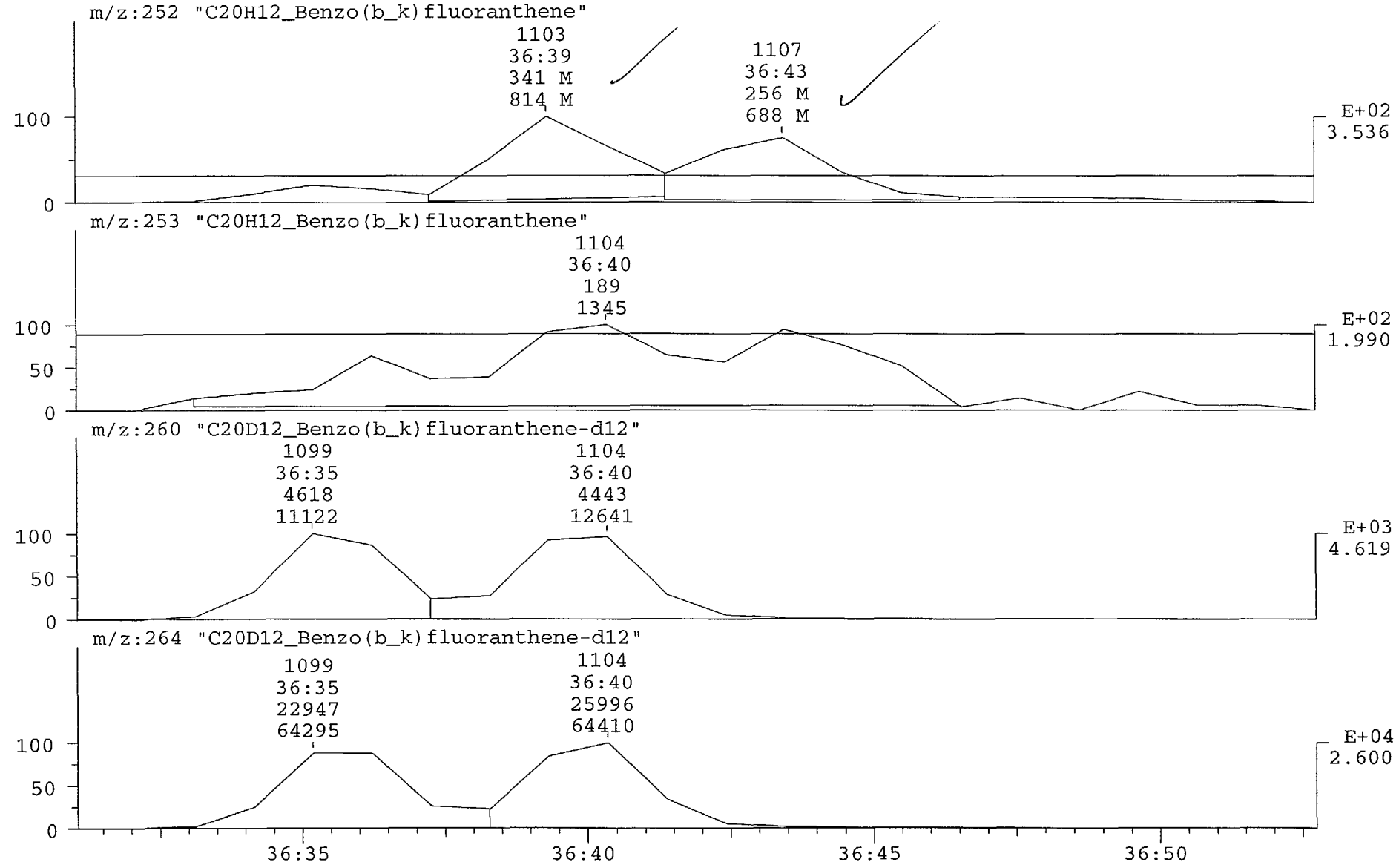


4488

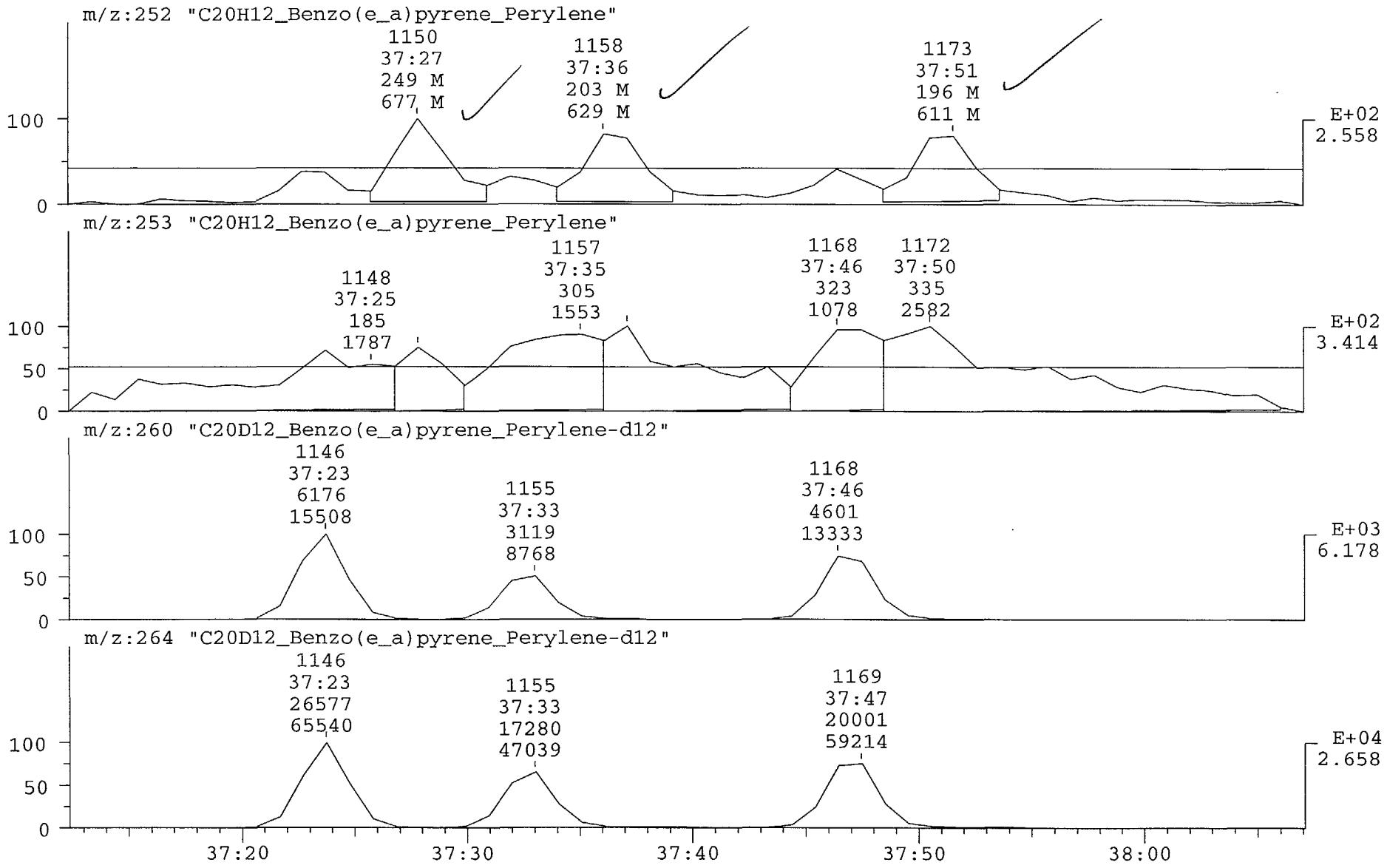
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



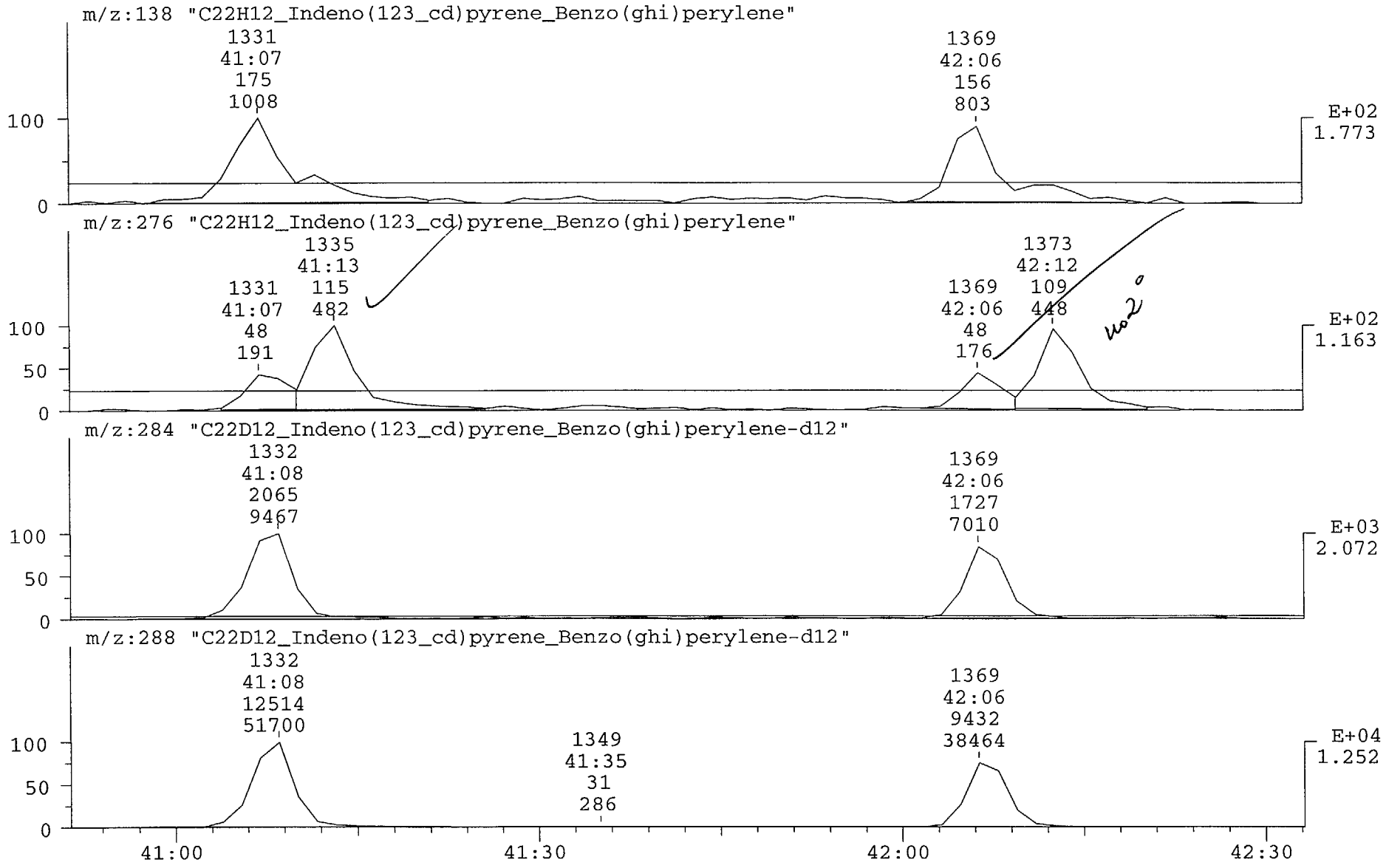
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



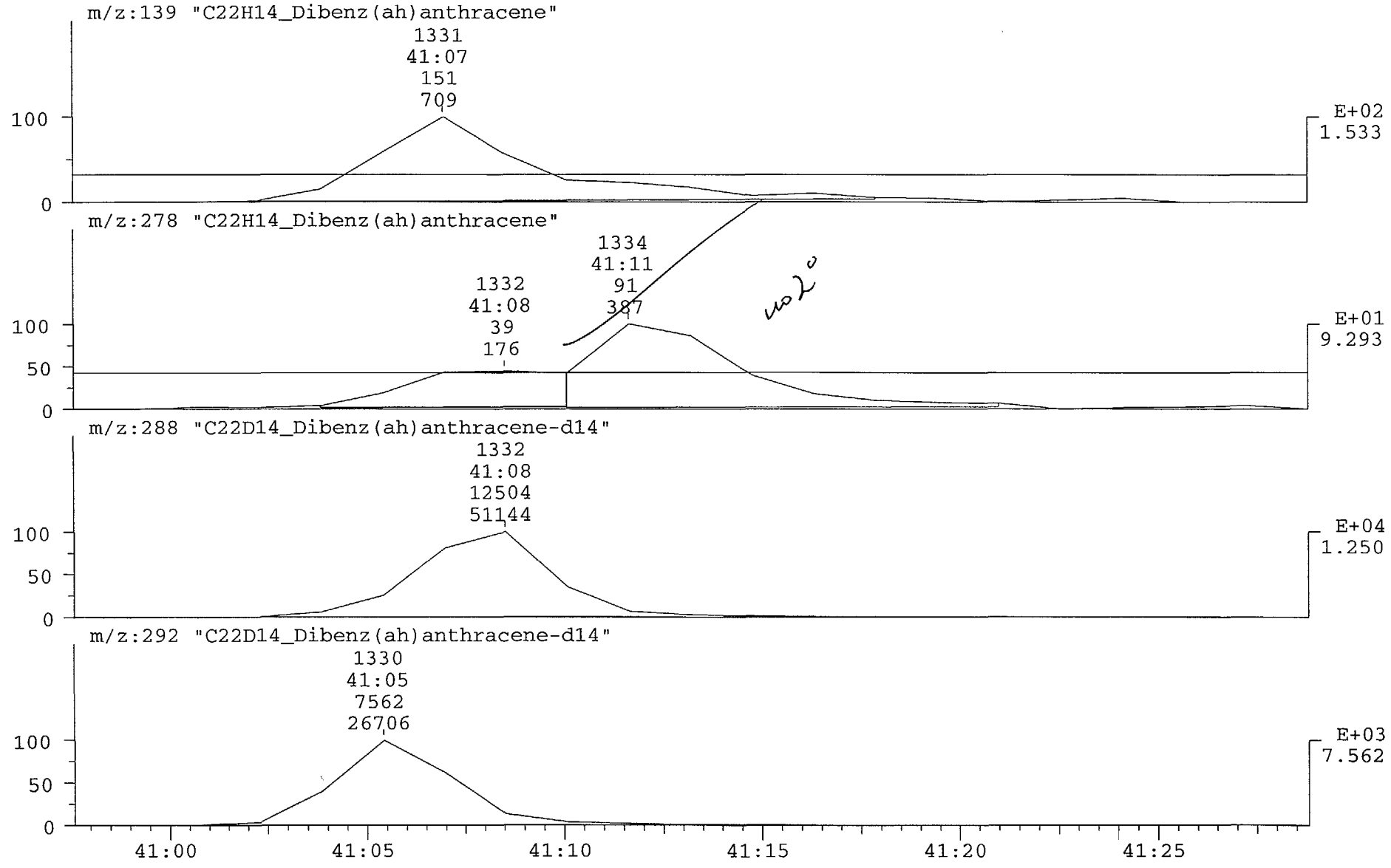
CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w511aa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w51b 13-APR-06 Elapse: 36:44 1108
Samp: WO=h2w51laa Meth=YA1 Dil=1 Start : 22:09:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051B Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



4493

```
File: YH2W5LB.D
Date Acquired: 13 Apr 2006  10:09 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W5L1AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  4
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Tue Apr 18 15:55:24 2006
d:\cdffiles\YH2W5LB.CDF Translated at Tue Apr 18 15:55:24 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Tue Apr 18 10:21:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w5lb.dat
NetCDF File (input): /usr/users/hp/data/yh2w5lb.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Tue Apr 18 10:21:01 EDT 2006

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	H6D030241	**Work Order # ...:**	H2W5L1AC-LCS H2W5L1AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	H6D100000 - 051				
Prep Date .....:	04/10/06	**Analysis Date ..:**	04/14/06		
Prep Batch # ...:	6100051				
Dilution Factor :	1				
Analyst ID.....:	Jon M. Nordquist	**Instrument ID..:**	H2A	**Method.....:**	KNOX ID-0016
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS	RPD	RPD LIMITS
Acenaphthene	**500**	**461**	**ng/sampl**	**92**	**B**	**(60 - 140)**		
	500	**423**	**ng/sampl**	**85**	**B**	**(60 - 140)**	**8.7**	**(0 - 25)**
Acenaphthylene	**500**	**443**	**ng/sampl**	**89**		**(60 - 140)**		
	500	**446**	**ng/sampl**	**89**		**(60 - 140)**	**0.76**	**(0 - 25)**
Anthracene	**500**	**412**	**ng/sampl**	**82**		**(60 - 140)**		
	500	**403**	**ng/sampl**	**81**		**(60 - 140)**	**2.3**	**(0 - 25)**
Benzo(a)anthracene	**500**	**441**	**ng/sampl**	**88**	**B**	**(60 - 140)**		
	500	**445**	**ng/sampl**	**89**	**B**	**(60 - 140)**	**0.99**	**(0 - 25)**
Benzo(b)fluoranthene	**500**	**406**	**ng/sampl**	**81**	**B**	**(60 - 140)**		
	500	**408**	**ng/sampl**	**82**	**B**	**(60 - 140)**	**0.70**	**(0 - 25)**
Benzo(k)fluoranthene	**500**	**489**	**ng/sampl**	**98**	**B**	**(60 - 140)**		
	500	**483**	**ng/sampl**	**97**	**B**	**(60 - 140)**	**1.3**	**(0 - 25)**
Benzo(ghi)perylene	**500**	**439**	**ng/sampl**	**88**		**(60 - 140)**		
	500	**442**	**ng/sampl**	**88**		**(60 - 140)**	**0.69**	**(0 - 25)**
Benzo(a)pyrene	**500**	**444**	**ng/sampl**	**89**	**B**	**(60 - 140)**		
	500	**442**	**ng/sampl**	**88**	**B**	**(60 - 140)**	**0.45**	**(0 - 25)**
Benzo(e)pyrene	**500**	**474**	**ng/sampl**	**95**	**B**	**(60 - 140)**		
	500	**486**	**ng/sampl**	**97**	**B**	**(60 - 140)**	**2.5**	**(0 - 25)**
Chrysene	**500**	**460**	**ng/sampl**	**92**	**B**	**(60 - 140)**		
	500	**455**	**ng/sampl**	**91**	**B**	**(60 - 140)**	**1.1**	**(0 - 25)**
Dibenz(a,h)anthracene	**500**	**440**	**ng/sampl**	**88**		**(60 - 140)**		
	500	**437**	**ng/sampl**	**87**		**(60 - 140)**	**0.68**	**(0 - 25)**
Fluoranthene	**500**	**453**	**ng/sampl**	**91**	**B**	**(60 - 140)**		
	500	**451**	**ng/sampl**	**90**	**B**	**(60 - 140)**	**0.36**	**(0 - 25)**
Fluorene	**500**	**437**	**ng/sampl**	**87**	**B**	**(60 - 140)**		
	500	**437**	**ng/sampl**	**87**	**B**	**(60 - 140)**	**0.020**	**(0 - 25)**
Indeno(1,2,3-cd)pyrene	**500**	**446**	**ng/sampl**	**89**	**B**	**(60 - 140)**		
	500	**440**	**ng/sampl**	**88**	**B**	**(60 - 140)**	**1.4**	**(0 - 25)**
2-Methylnaphthalene	**500**	**465**	**ng/sampl**	**93**	**B**	**(60 - 140)**		
	500	**465**	**ng/sampl**	**93**	**B**	**(60 - 140)**	**0.060**	**(0 - 25)**
Naphthalene	**500**	**472**	**ng/sampl**	**94**	**B**	**(60 - 140)**		
	500	**474**	**ng/sampl**	**95**	**B**	**(60 - 140)**	**0.38**	**(0 - 25)**
Perylene	**500**	**446**	**ng/sampl**	**89**	**B**	**(60 - 140)**		
	500	**448**	**ng/sampl**	**90**	**B**	**(60 - 140)**	**0.41**	**(0 - 25)**
Phenanthrene	**500**	**455**	**ng/sampl**	**91**	**B**	**(60 - 140)**		
	500	**454**	**ng/sampl**	**91**	**B**	**(60 - 140)**	**0.10**	**(0 - 25)**
Pyrene	**500**	**487**	**ng/sampl**	**97**	**B**	**(60 - 140)**		
	500	**450**	**ng/sampl**	**90**	**B**	**(60 - 140)**	**7.8**	**(0 - 25)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	102	(15 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H6D030241 **Work Order # ...:** H2W5L1AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : H6D100000 - 051 H2W5L1AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	103	(15 - 120)
2-Methylnaphthalene-d10	104	(20 - 120)
	105	(20 - 120)
Acenaphthylene-d8	107	(20 - 120)
	109	(20 - 120)
Phenanthrene-d10	104	(30 - 120)
	104	(30 - 120)
Fluoranthene-d10	109	(30 - 120)
	109	(30 - 120)
Benzo(a)anthracene-d12	110	(30 - 120)
	113	(30 - 120)
Chrysene-d12	105	(30 - 120)
	108	(30 - 120)
Benzo(b)fluoranthene-d12	120	(30 - 120)
	119	(30 - 120)
Benzo(k)fluoranthene-d12	104	(30 - 120)
	102	(30 - 120)
Benzo(a)pyrene-d12	104	(30 - 120)
	100	(30 - 120)
Perylene-d12	107	(30 - 120)
	104	(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	109	(30 - 120)
	109	(30 - 120)
Dibenz(ah)anthracene-d14	109	(30 - 120)
	109	(30 - 120)
Benzo(ghi)perylene-d12	110	(30 - 120)
	109	(30 - 120)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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

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IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AC	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lc.d	Prep Date	04/10/06	SDG No	
Analysis ID	90128	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/14/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	00:39	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	98567	31063	1.748	500.0	510.182968	102.04	510.182968		0.499
Naphthalene	16:01	112741	36191	1.211	500.0	472.334460	94.47	472.334460	B	0.266
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene					500.0			ND		0.000000
2-Methylnaphthalene	18:03	74887	27143	1.269	500.0	465.071822	93.01	465.071822	B	0.441
2-Methylnaphthalene-d10	17:58	63465	22328	1.104	500.0	520.194449	104.04	520.194449		0.339
1-Methylnaphthalene	18:23	70370	28237	1.365	500.0	461.607536	92.32	461.607536	B	0.418
1-Methylnaphthalene-d10	18:18	55852	21909	0.958	500.0	527.287953	105.46	527.287953		0.390
1-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	89835	41129	1.533	500.0	461.742236	92.35	461.742236		0.950
2,6-Dimethylnaphthalene	19:56	65445	29791	1.249	500.0	454.389063	90.88	454.389063	B	2.08
2,6-Dimethylnaphthalene-d1	19:47	57640	21123	0.977	500.0	533.948953	106.79	533.948953		0.638
C2 Alkylnaphthalenes				1.249		454.389063		454.389063	B	1.42
Acenaphthylene	20:49	100793	40419	1.244	500.0	442.765968	88.55	442.765968		0.152
Acenaphthylene-d8	20:46	91532	39665	1.548	500.0	534.940943	106.99	534.940943		0.241
Acenaphthene-d10	21:17	55259	20064	1.000	500.0	500.000000	100.00	500.000000		0.748
Acenaphthene	21:21	64397	22784	0.762	500.0	461.456524	92.29	461.456524	B	1.07
2,3,5-Trimethylnaphthalene	22:28	60210	23441	1.127	500.0	463.409487	92.68	463.409487		0.368
C3 Alkylnaphthalenes				1.127		463.409487		463.409487		0.250
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene	22:52	77472	28375	0.915	500.0	437.078444	87.42	437.078444	B	0.382
Phenanthrene-d10	25:43	96856	39331	0.753	500.0	522.010251	104.40	522.010251		0.806
Phenanthrene	25:47	107198	48992	1.216	500.0	454.958380	90.99	454.958380	B	0.314
Anthracene-d10								ND		0.000000
Anthracene	25:56	84590	39529	1.059	500.0	412.376302	82.48	412.376302		0.360
1-Methylphenanthrene	27:40	80665	29210	0.870	500.0	478.479336	95.70	478.479336	B	0.365
Fluoranthene-d10	29:21	97449	44019	0.727	500.0	544.479524	108.90	544.479524		0.618
Fluoranthene	29:24	117641	50432	1.334	500.0	452.556947	90.51	452.556947	B	1.04
Pyrene-d10	30:02	123167	47360	1.000	500.0	500.000000	100.00	500.000000		0.449
Pyrene	30:06	129889	50705	1.369	500.0	486.880039	97.38	486.880039	B	1.02
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:37	70813	33661	0.521	500.0	551.775030	110.36	551.775030		0.405
Benzo(a)anthracene	33:41	90701	38516	1.454	500.0	440.554509	88.11	440.554509	B	0.230
Chrysene-d12	33:44	72110	34135	0.557	500.0	525.810594	105.16	525.810594		0.379
Chrysene	33:48	90476	40863	1.363	500.0	460.281020	92.06	460.281020	B	0.242
Benzo(b)Fluoranthene-d12	36:35	75217	26991	0.847	500.0	599.222596	119.84	599.222596		0.656
Benzo(k)Fluoranthene-d12	36:40	76979	31451	1.002	500.0	518.218461	103.64	518.218461		0.555
Benzo(b)fluoranthene	36:39	91989	38437	1.508	500.0	405.603900	81.12	405.603900	B	0.768
Benzo(k)fluoranthene	36:43	85519	33194	1.136	500.0	488.759303	97.75	488.759303	B	0.874
Benzo(e)pyrene-d12	37:23	74090	29233	1.000	500.0	500.000000	100.00	500.000000		0.556
Benzo(e)pyrene	37:27	85651	33716	1.589	500.0	474.004574	94.80	474.004574	B	0.946
Benzo(a)Pyrene-d12	37:33	56876	20800	0.737	500.0	520.864549	104.17	520.864549		0.754
Benzo(a)pyrene	37:36	67304	24671	1.333	500.0	443.973746	88.79	443.973746	B	1.13
Perylene-d12	37:47	69997	23497	0.887	500.0	532.844648	106.57	532.844648		0.627
Perylene	37:50	73536	24611	1.178	500.0	446.027301	89.21	446.027301	B	1.13
3-Methylcholanthrene					500.0			ND		0.000000

4/19/06

4/24/06

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IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AC	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lc.d	Prep Date	04/10/06	SDG No	
Analysis ID	90128	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/14/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	00:39	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	32610	9463	0.405	500.0	543.930841	108.79	543.930841		0.740
Indeno(1,2,3-cd)pyrene-d12	41:08	62857	15084	0.779	500.0	544.514769	108.90	544.514769		0.329
Indeno(1,2,3-cd)pyrene	41:13	72673	19276	1.297	500.0	445.778031	89.16	445.778031	B	0.447
Dibenz(a,h)anthracene	41:11	59085	16083	2.059	500.0	440.057873	88.01	440.057873		0.577
Benzo(ghi)Perylene-d12	42:06	45491	11300	0.559	500.0	548.920016	109.78	548.920016		0.459
Benzo(ghi)perylene	42:12	67765	17965	1.698	500.0	438.604426	87.72	438.604426		0.456
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene					500.0			ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AC	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lc.d	Prep Date	04/10/06	SDG No	
Analysis ID	90128	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/14/06 00:39	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	20		8				
	Naphthalene	16:01	16:01	0	112741	✓	36191			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	35		14				
	Naphthalene-d8	15:58	15:57	1	98567	✓	31063			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	25		10				
	2-Methylnaphthalene	18:03	18:03	0	74887	✓	27143			AVB	M
	1-Methylnaphthalene	18:23	18:23	0	70370	✓	28237			ABB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	17:58	0	63465	✓	22328			ABV	
	1-Methylnaphthalene-d10	18:18	18:17	1	55852	✓	21909			AVB	
	Acenaphthylene	20:49	20:48	1	100793	✓	40419			ABB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	65	✓	26				
	Biphenyl	19:27	19:26	1	89835	✓	41129			ABB	
	Acenaphthene	21:21	21:22	-1	64397	✓	22784			ABB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	110		44				
	2,6-Dimethylnaphthalene	19:56	19:55	1	65445	✓	29791			ABV	M
160					160.0000		160.0000				
	Noise	00:00	00:00	0	15		6				
	Acenaphthylene-d8	20:46	20:47	-1	91532	✓	39665			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	18		7				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	30		12				
	Acenaphthene-d10	21:17	21:16	1	55259	✓	20064			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	28		11				
	Fluorene	22:52	22:52	0	77472	✓	28375			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	25		10				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	57640	✓	21123			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	18		7				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	18		7				
	2,3,5-Trimethylnaphthal	22:28	22:29	-1	60210	✓	23441			ABB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	8		3				

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

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IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AC	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lc.d	Prep Date	04/10/06	SDG No	
Analysis ID	90128	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/14/06 00:39	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					176.0000		176.0000				
	Noise	00:00	00:00	0	20		8				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	30		12				
	Phenanthrene	25:47	25:48	-1	107198	✓	48992			ABV	M
	Anthracene	25:56	25:55	1	84590	✓	39529			AVV	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	58		23				
	Phenanthrene-d10	25:43	25:44	-1	96856	✓	39331			ABV	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	25		10				
	1-Methylphenanthrene	27:40	27:41	-1	80665	✓	29210			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	123		49				
	Fluoranthene	29:24	29:24	0	117641	✓	50432			ABV	M
	Pyrene	30:06	30:05	1	129889	✓	50705			ABV	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	43		17				
	Fluoranthene-d10	29:21	29:21	0	97449	✓	44019			ABV	
	Pyrene-d10	30:02	30:02	0	123167	✓	47360			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)anthracene	33:41	33:40	1	90701	✓	38516			ABV	M
	Chrysene	33:48	33:48	0	90476	✓	40863			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	20		8				
	Benzo(a)Anthracene-d12	33:37	33:36	1	70813	✓	33661			ABV	
	Chrysene-d12	33:44	33:44	0	72110	✓	34135			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	63		25				
	Benzo(b)fluoranthene	36:39	36:39	0	91989	✓	38437			ABV	M
	Benzo(k)fluoranthene	36:43	36:42	1	85519	✓	33194			AVB	M
	Benzo(e)pyrene	37:27	37:27	0	85651	✓	33716			ABV	M
	Benzo(a)pyrene	37:36	37:36	0	67304	✓	24671			AVV	M
	Perylene	37:50	37:50	0	73536	✓	24611			AVB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	33		13				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	75217	✓	26991			ABV	
	Benzo(k)Fluoranthene-d1	36:40	36:39	1	76979	✓	31451			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	74090	✓	29233			ABV	
	Benzo(a)Pyrene-d12	37:33	37:32	1	56876	✓	20800			AVV	
	Perylene-d12	37:47	37:46	1	69997	✓	23497			AVV	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AC	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w5lc.d	Prep Date	04/10/06	SDG No	
Analysis ID	90128	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/14/06 00:39	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSINYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

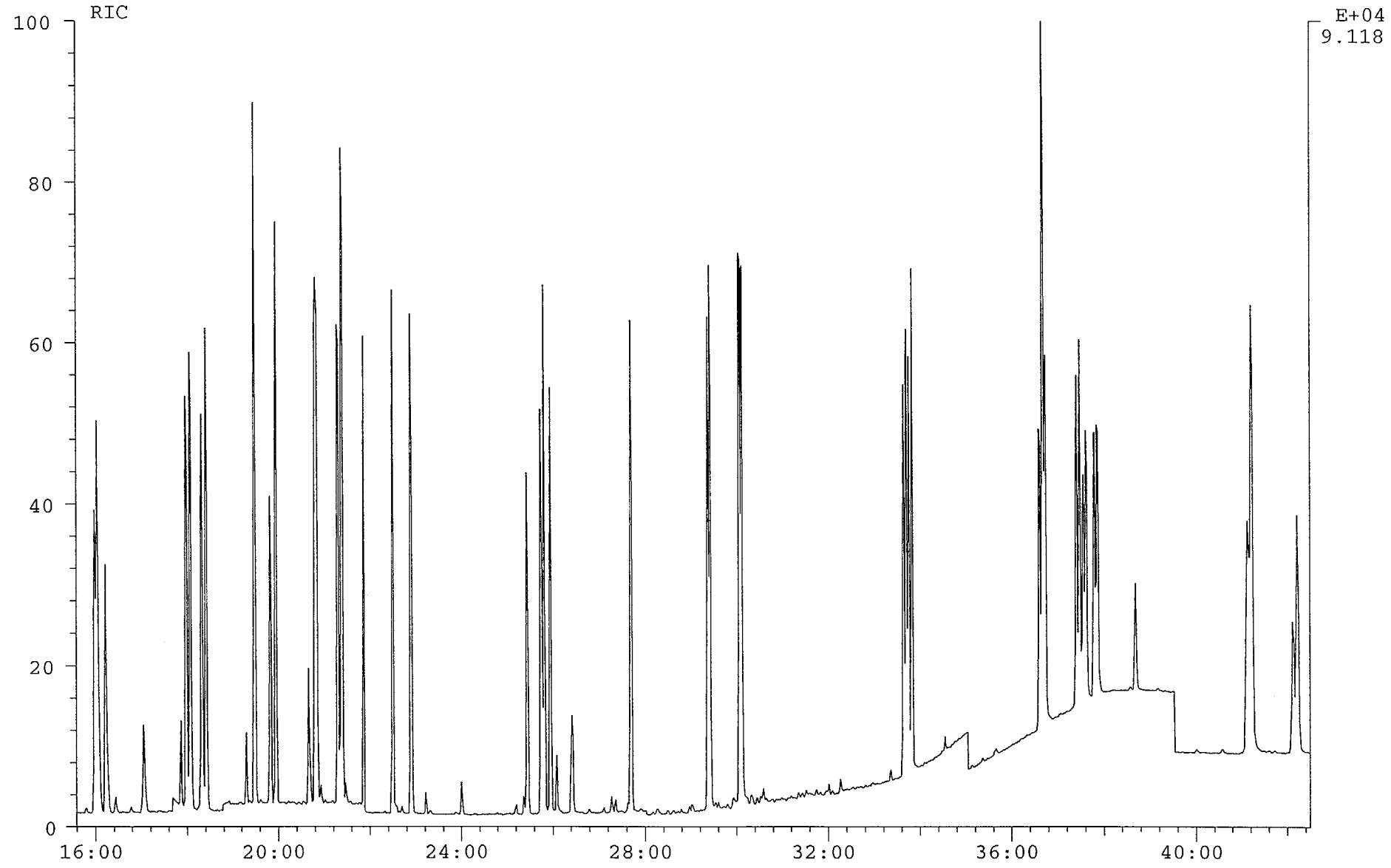
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
268					268.0000		268.0000				
	Noise	00:00	00:00	0	60		24				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	72673	✓	19276			ABV	M
	Benzo(ghi)perylene	42:12	42:13	-1	67765	✓	17965			ABB	
278					278.0000		278.0000				
	Noise	00:00	00:00	0	23		9				
	Dibenz(a,h)anthracene	41:11	41:12	-1	59085	✓	16083			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene-	41:08	41:08	0	62857	✓	15084			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	45491	✓	11300			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	18		7				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	32610	✓	9463			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	10		4				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	10		4				

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

14 VMIC 4/24/06

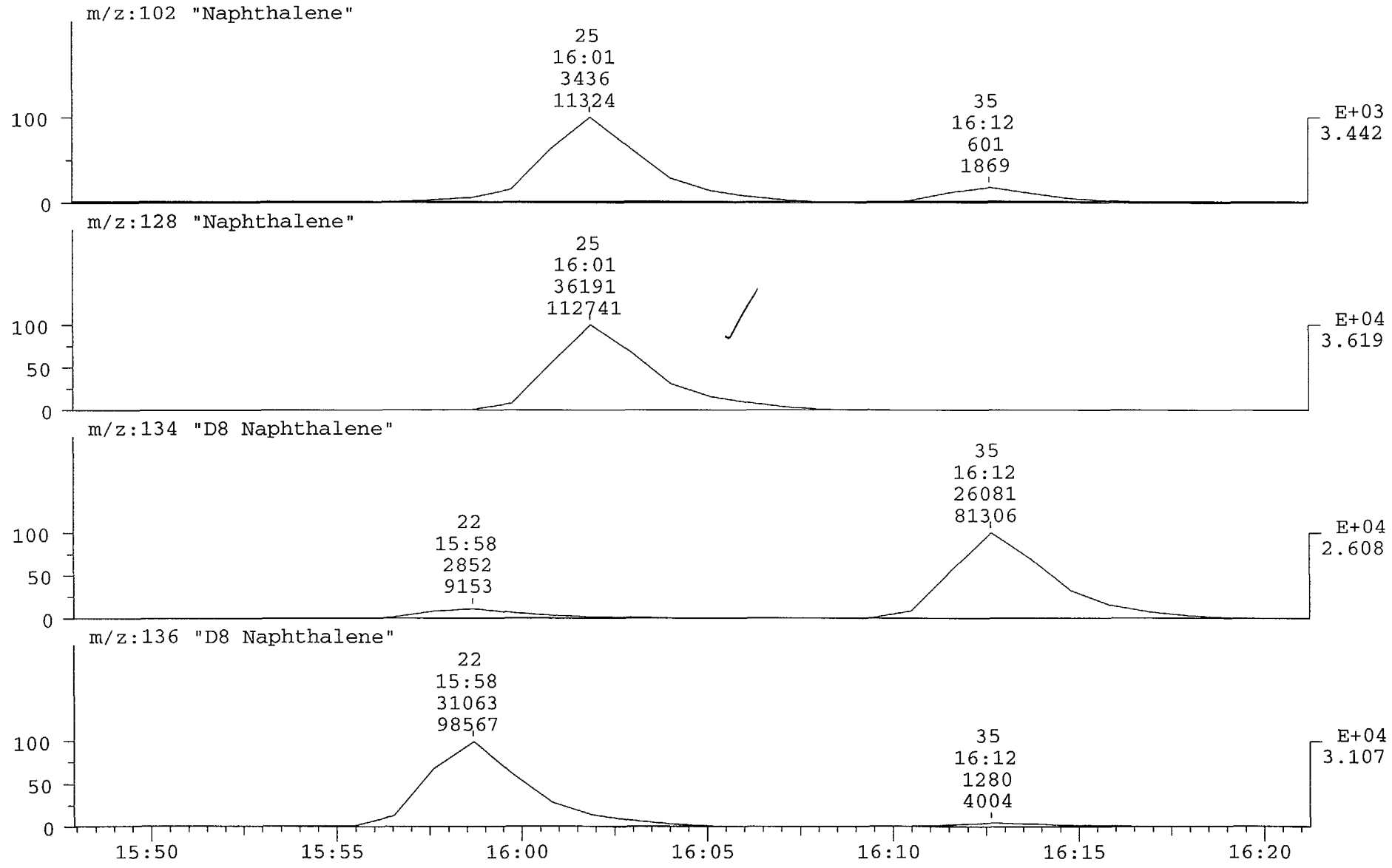
CHRO:	yh2w51c	13-APR-06	Elapse:	42:06	1369
Samp:	WO=h2w511ac Meth=YA1 Dil=1		Start :	~~24~~:39:00 00	1384
Comm:	Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i				
Mode:	EI +VE + LMR (LIN) UP LR NETCDF		Study :	6100051	
Oper:	JMN Client: H6D100000-051C		Inlet :		
Peak:	100.00 ppm Label wndw:	1365 > 1373	Masses:	0 > 308	
Area:	5, 0.50, 15 Baseline :	100, 3	Label :	0, 3.0	
Disp:	Height Area				

Int/Calc: J 4/19/06
QC/Rev VMIC 4/24/06

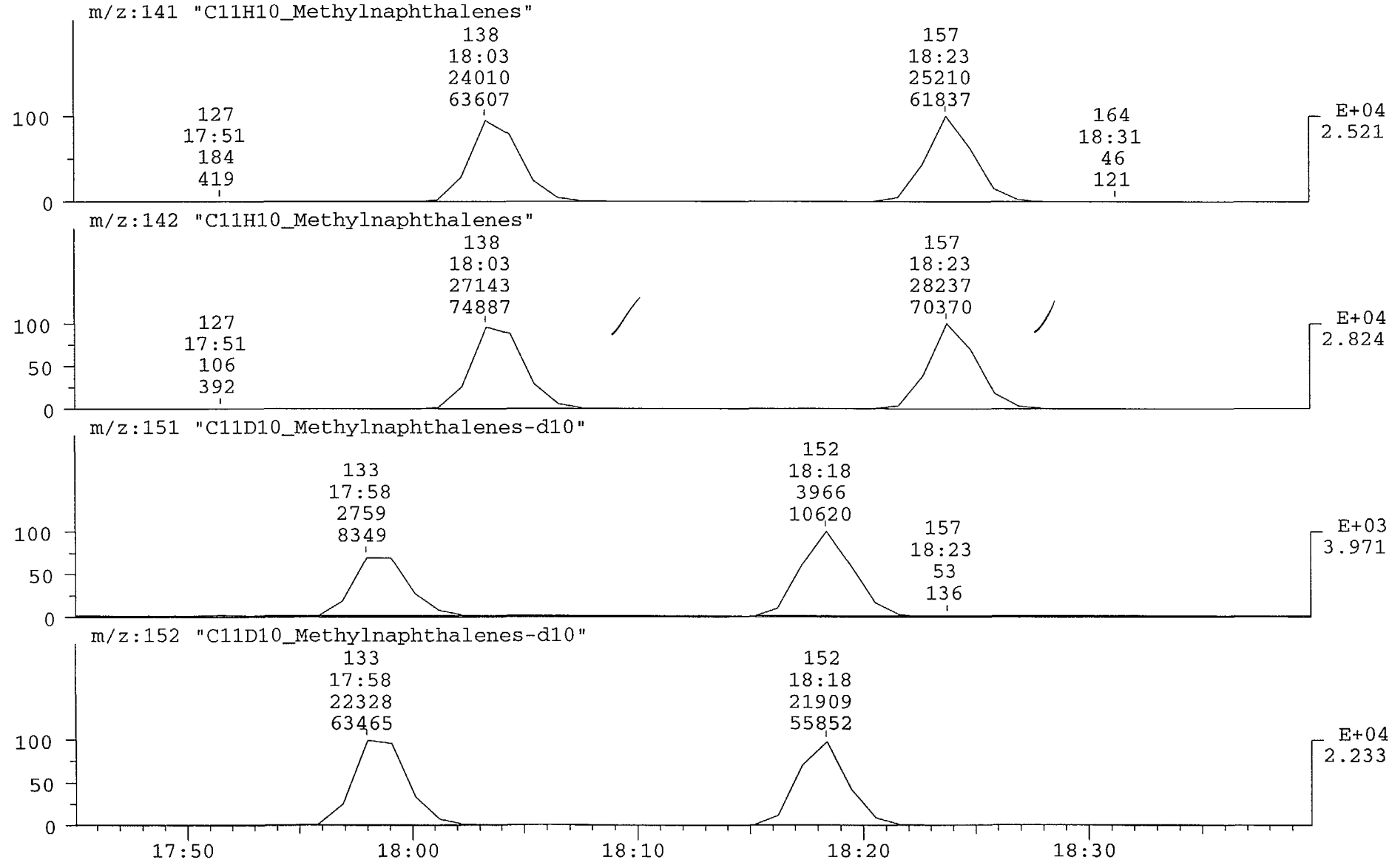


4502

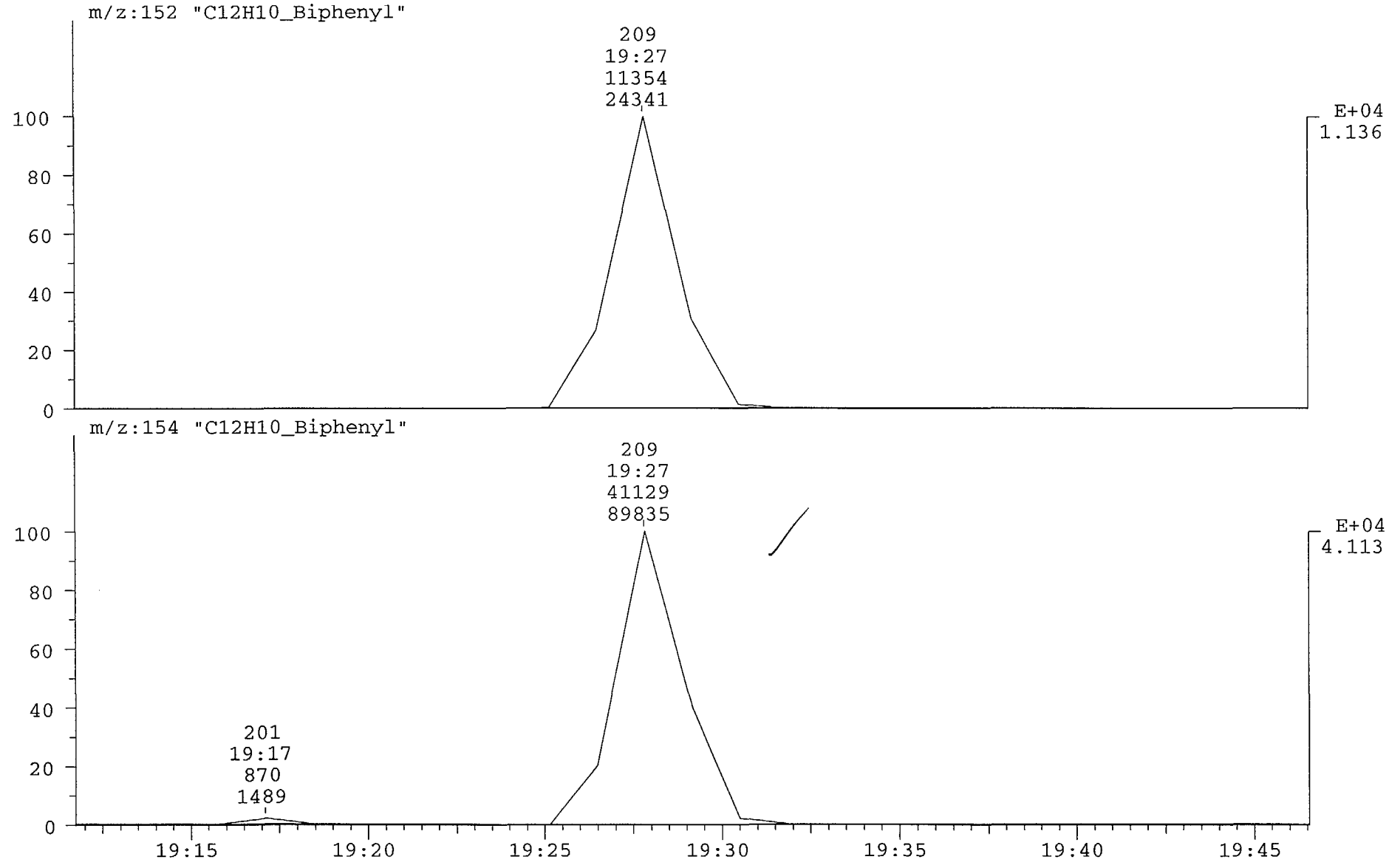
CHRO: yh2w51c 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



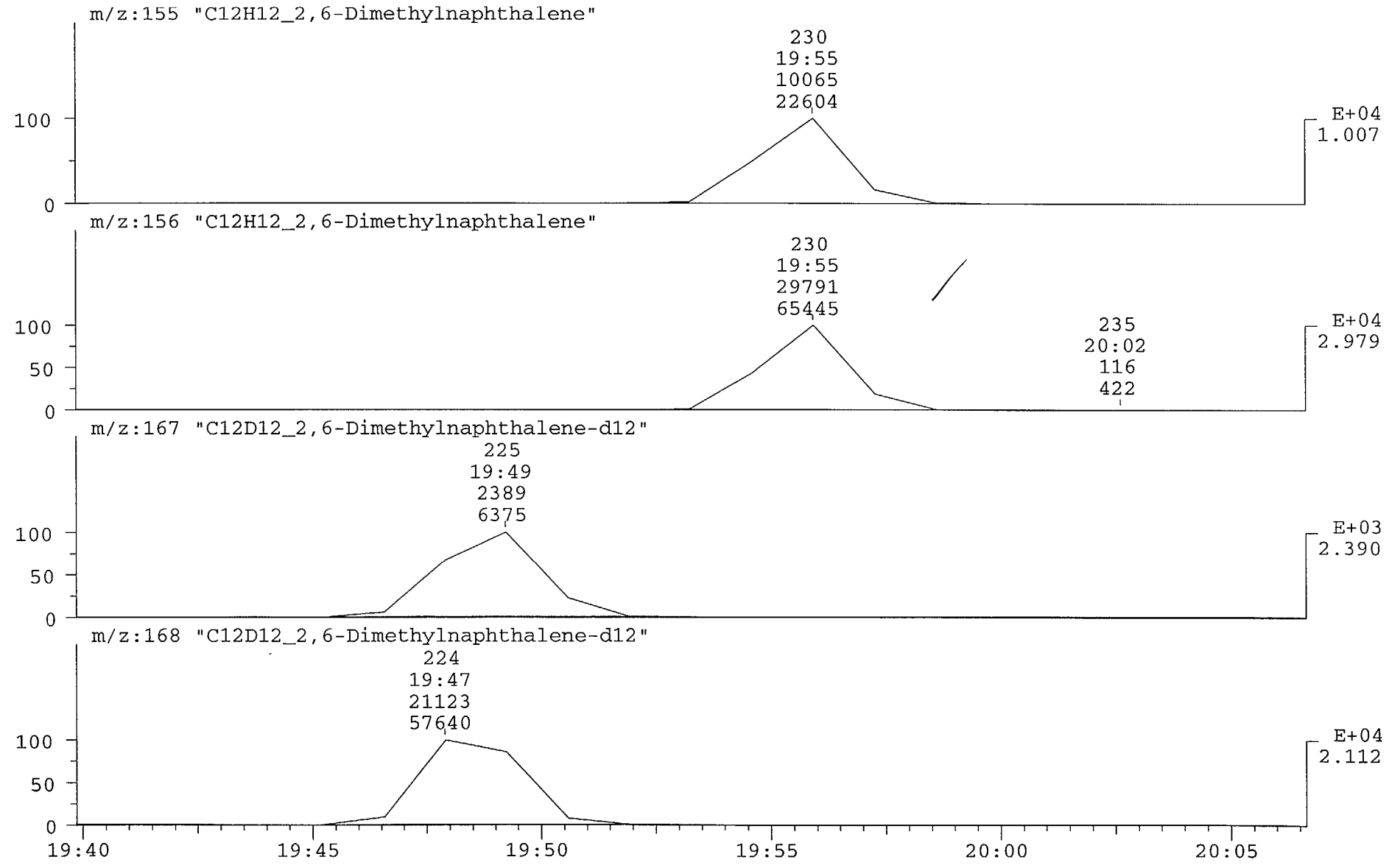
CHRO: yh2w51c 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



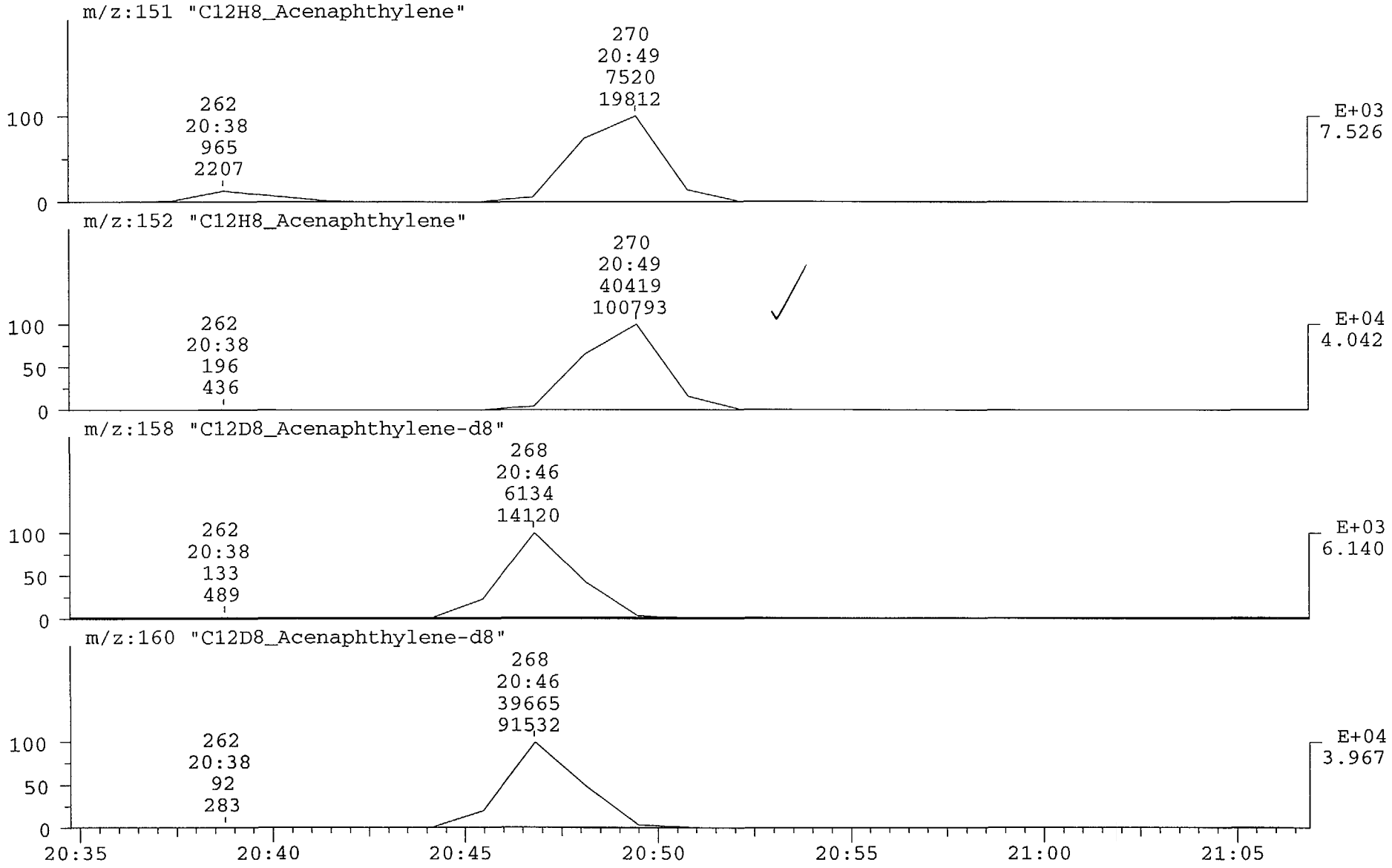
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Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w51c 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

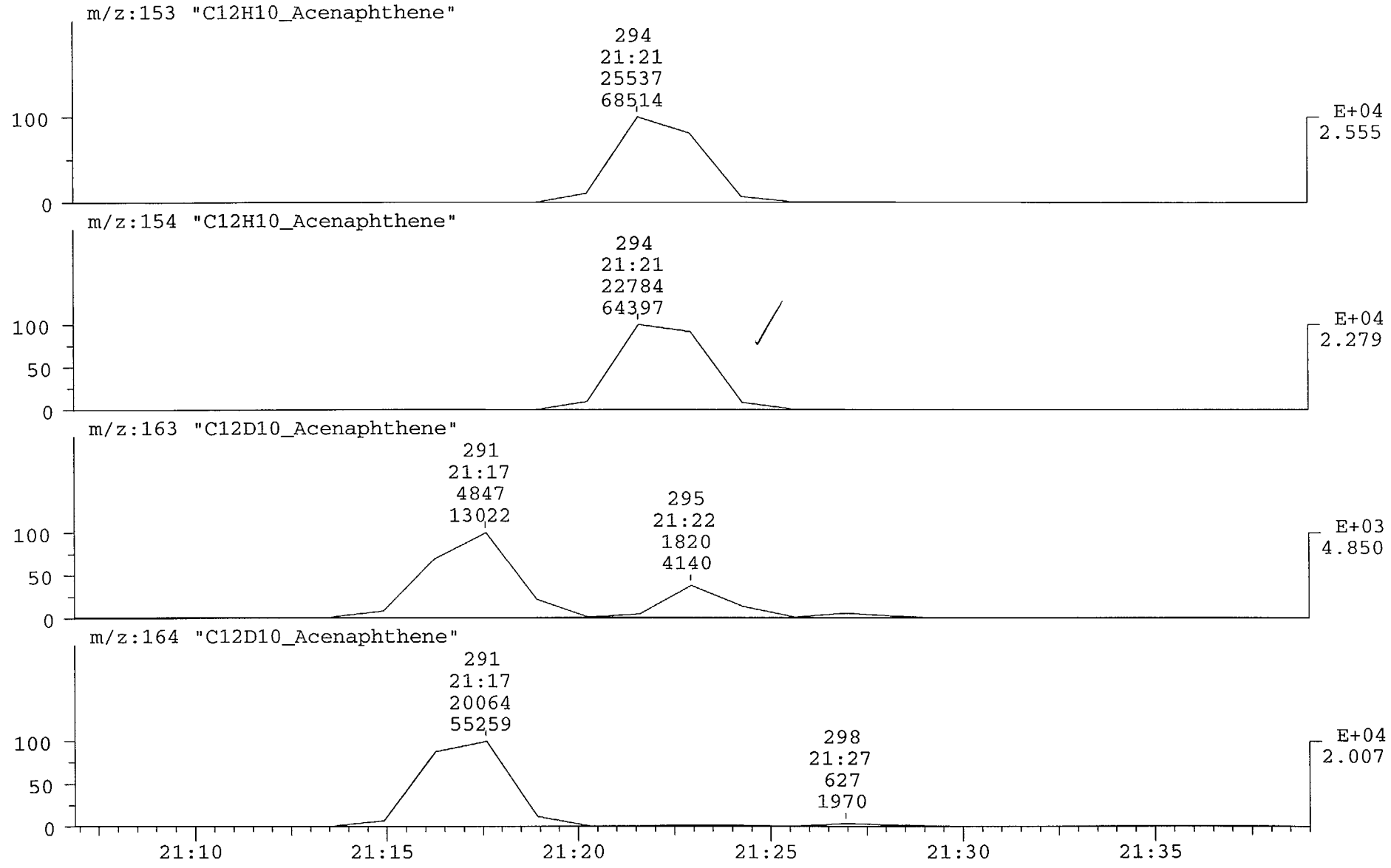


CHRO: yh2w51c 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

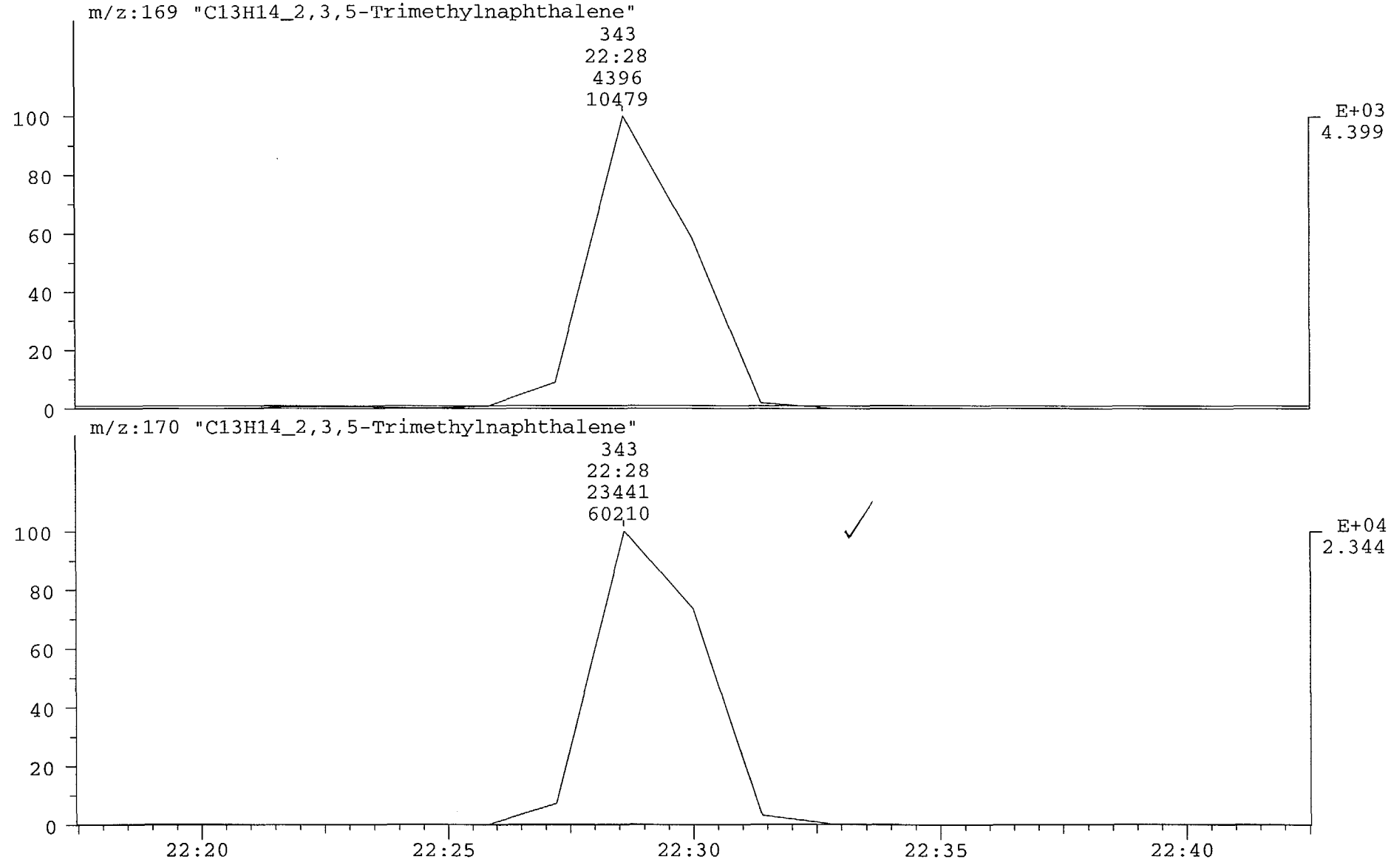


4507

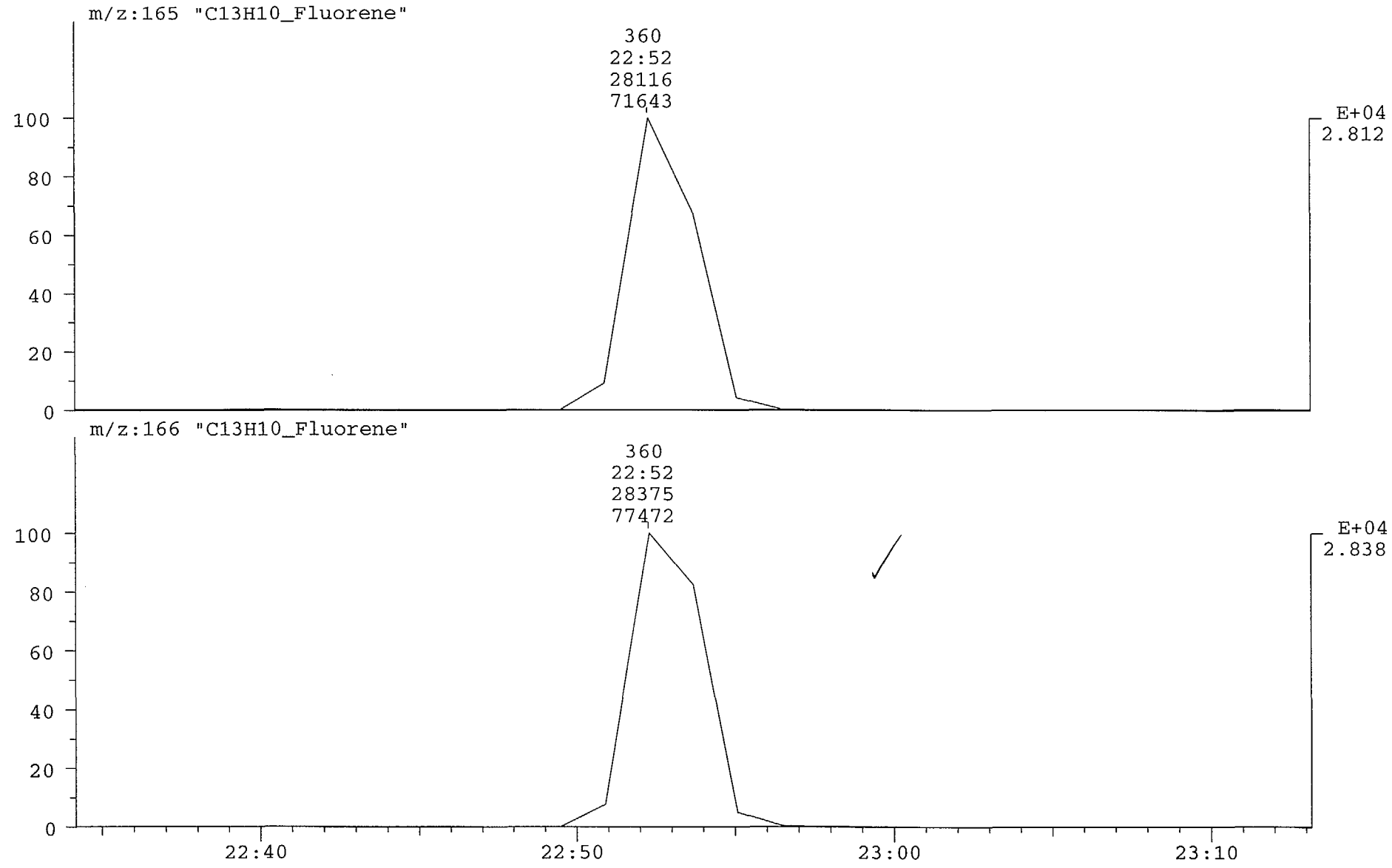
CHRO: yh2w5lc 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5l1ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



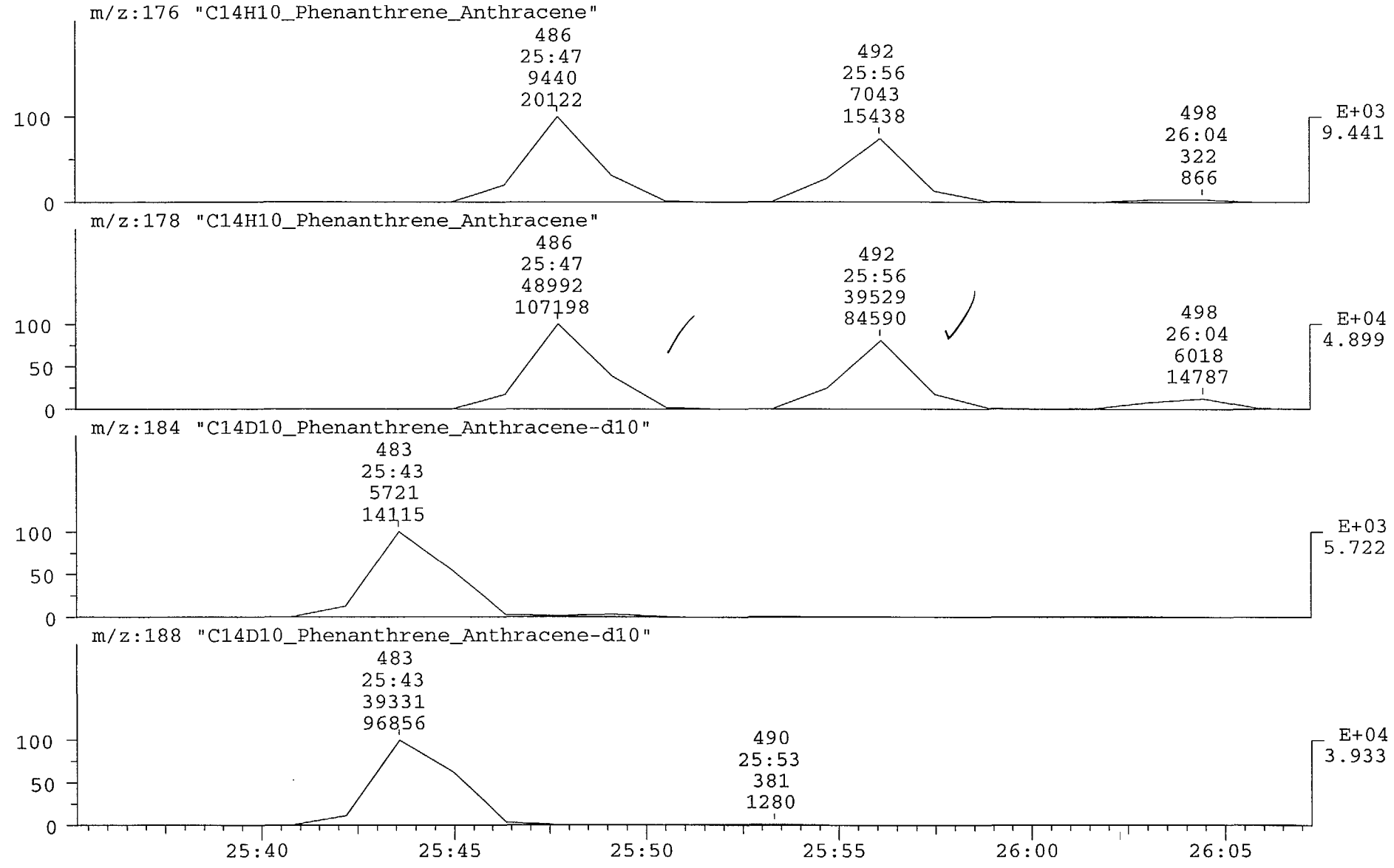
CHRO: yh2w5lc 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



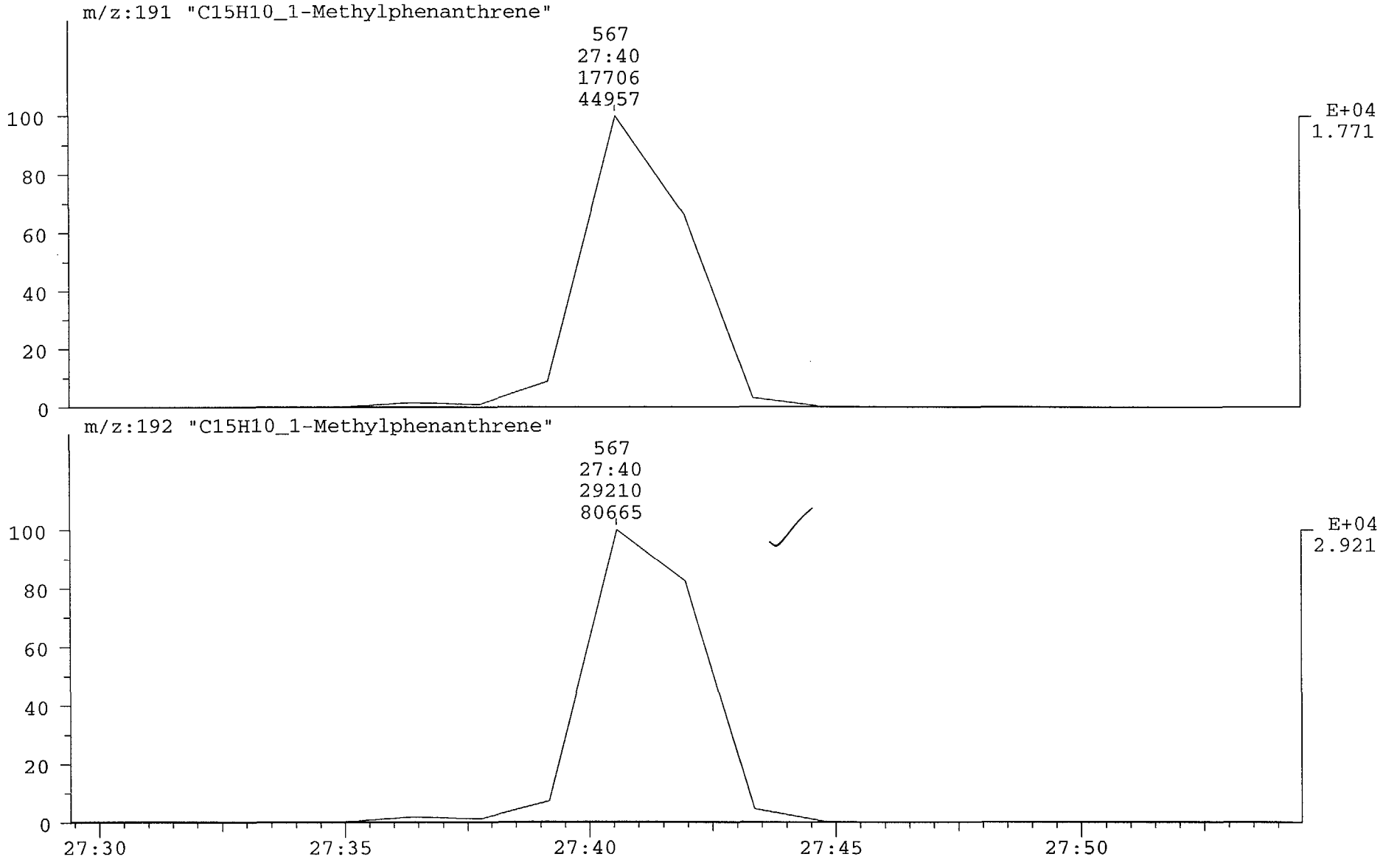
CHRO: yh2w5lc 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5l1ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



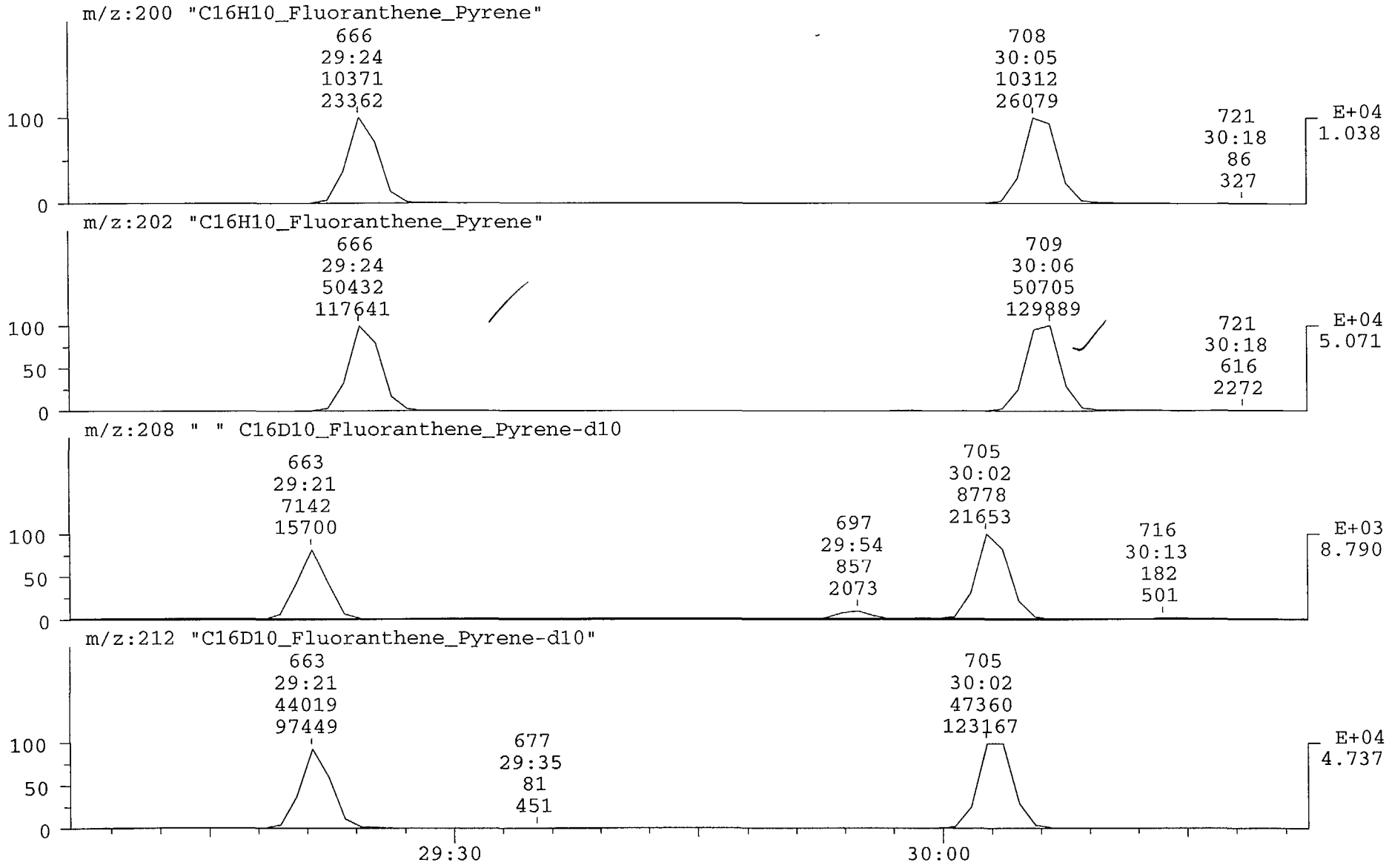
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Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



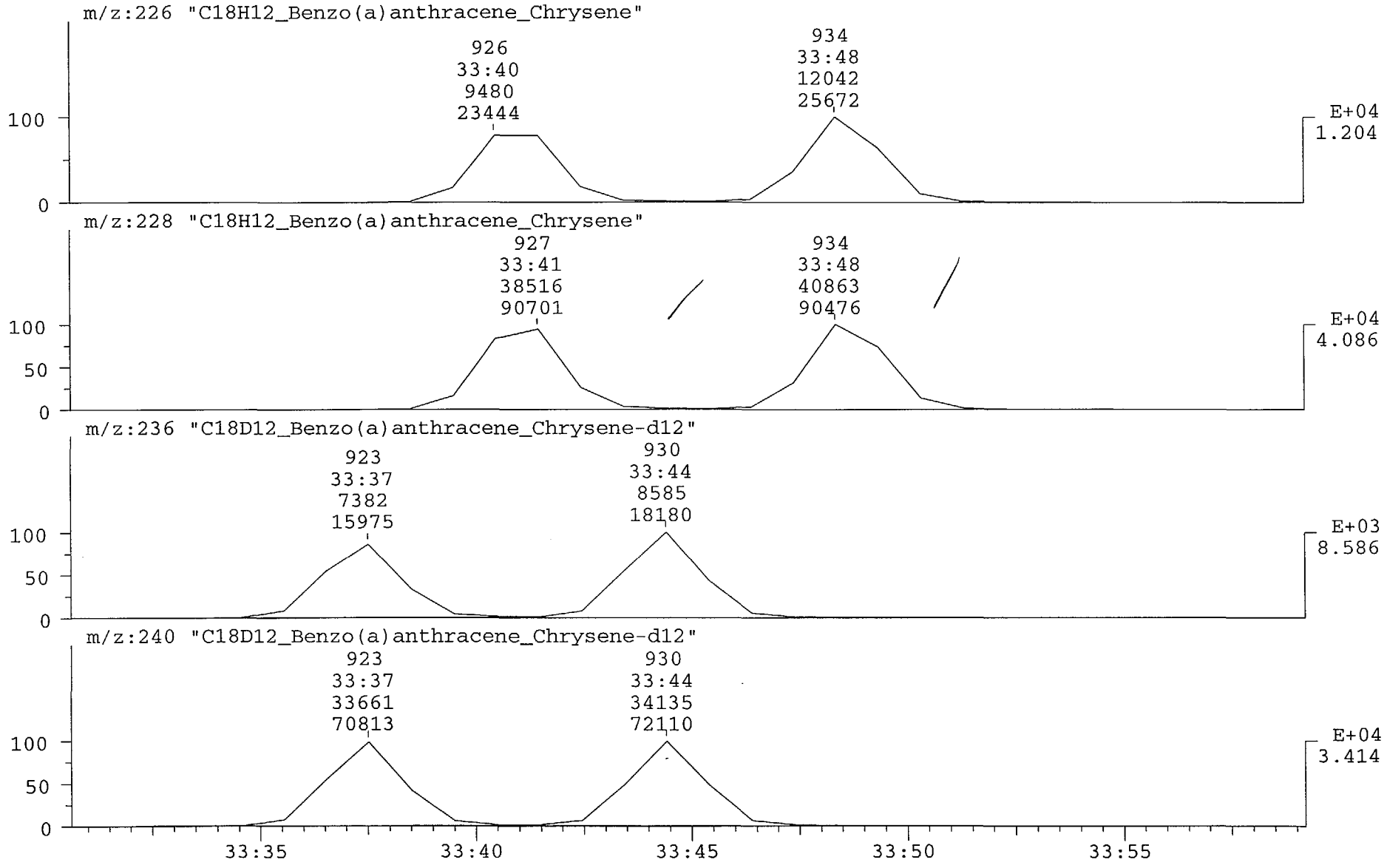
CHRO: yh2w5lc 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5l1ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



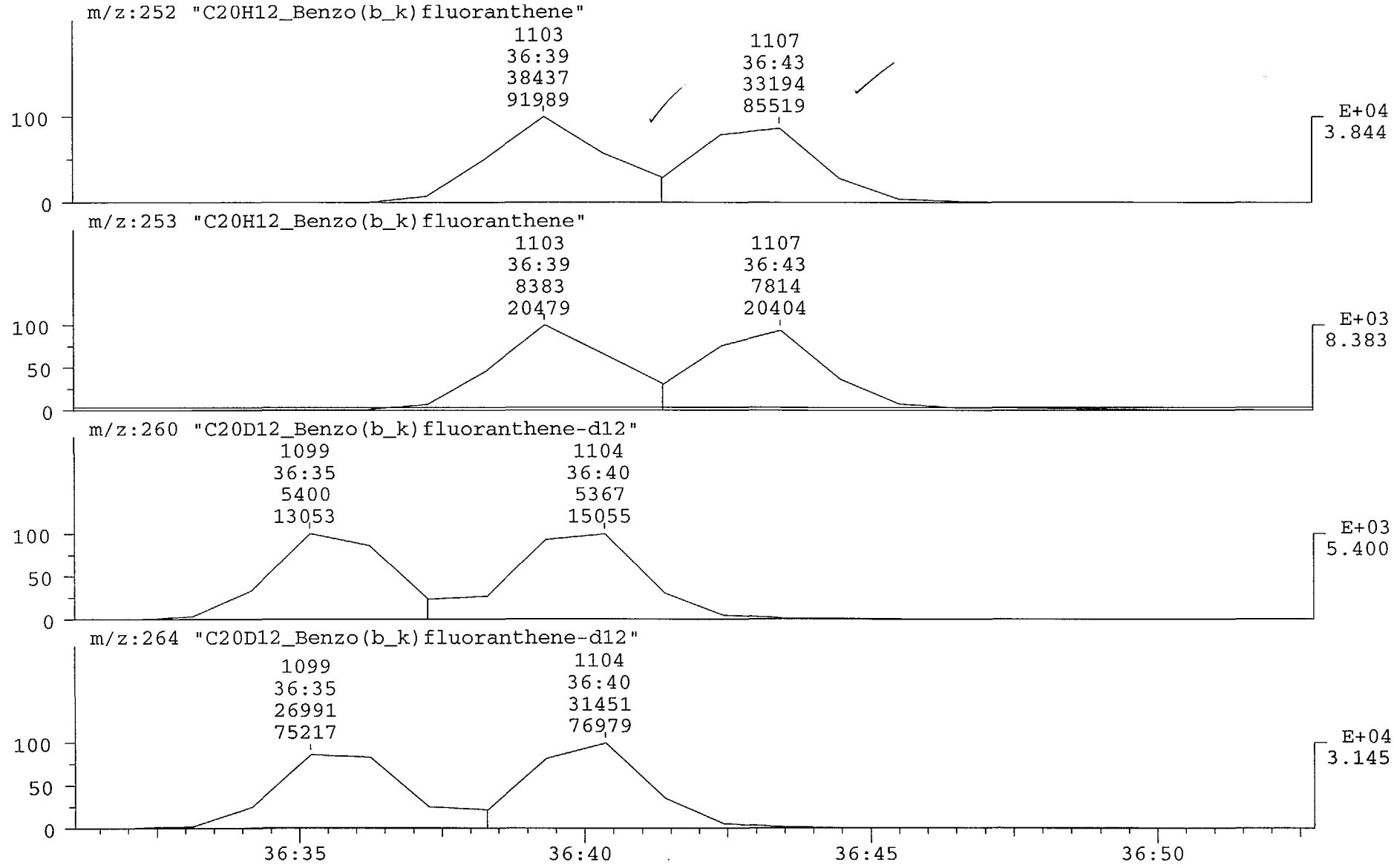
CHRO: yh2w5lc 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5l1ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



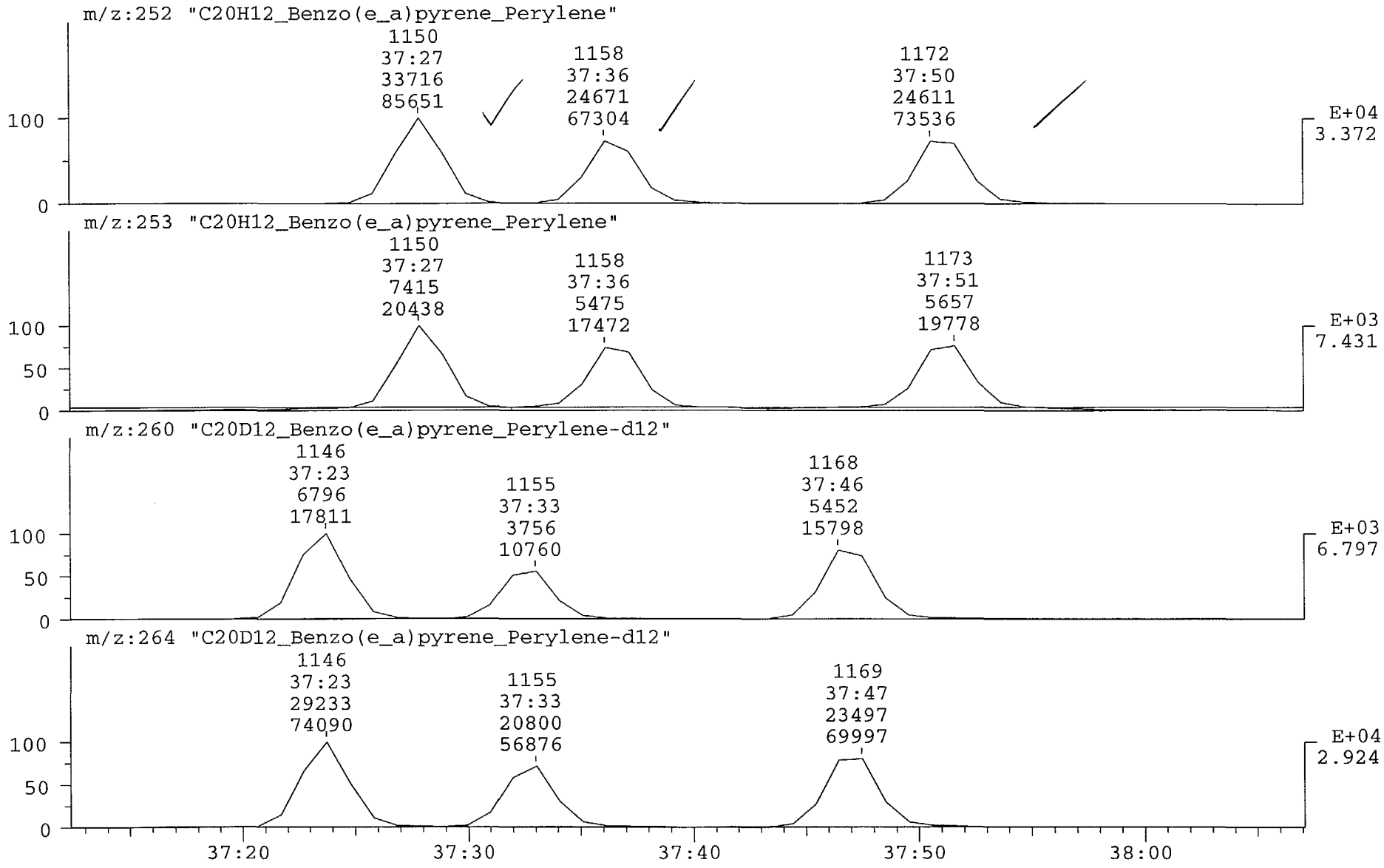
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Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



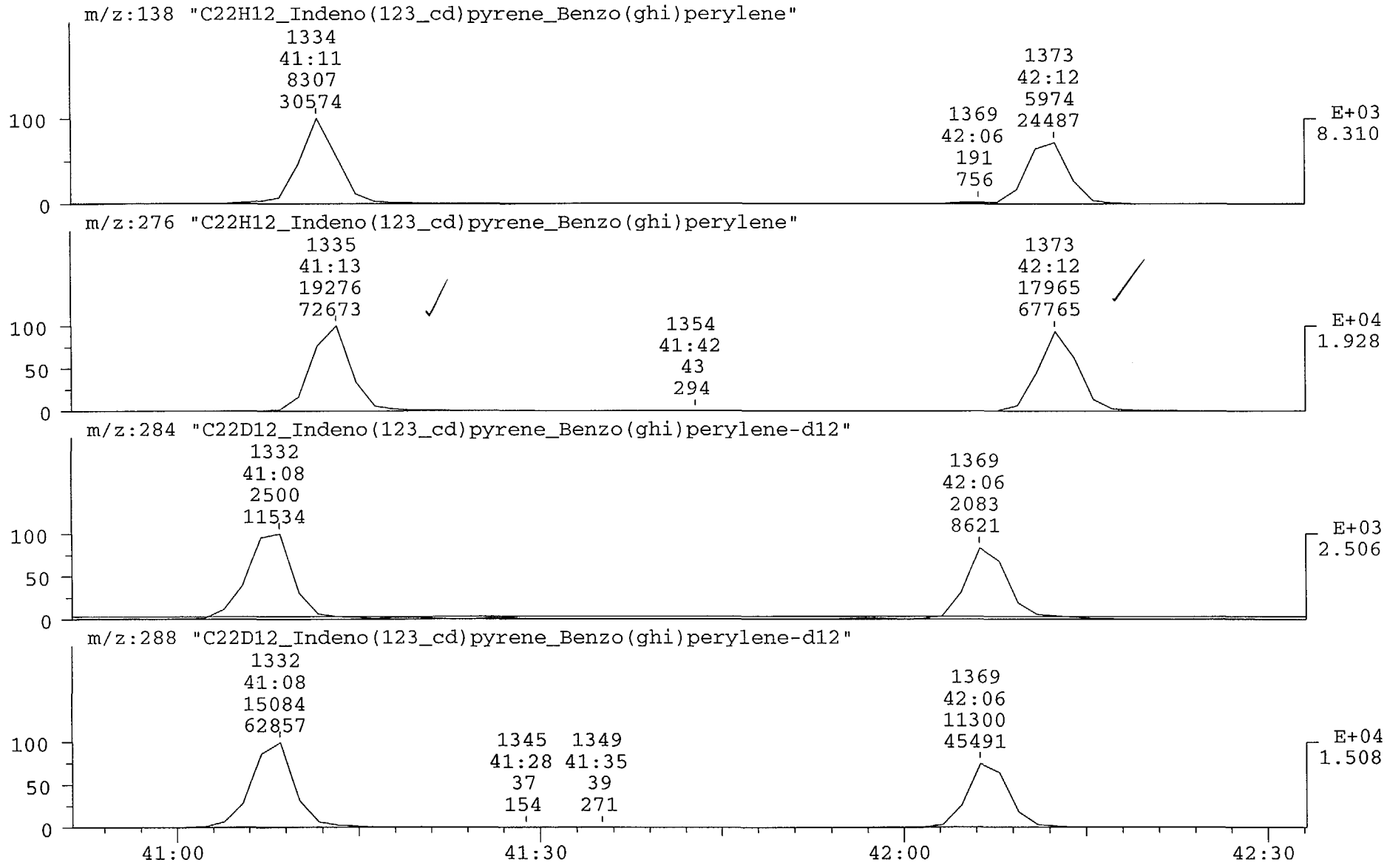
CHRO: yh2w51c 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



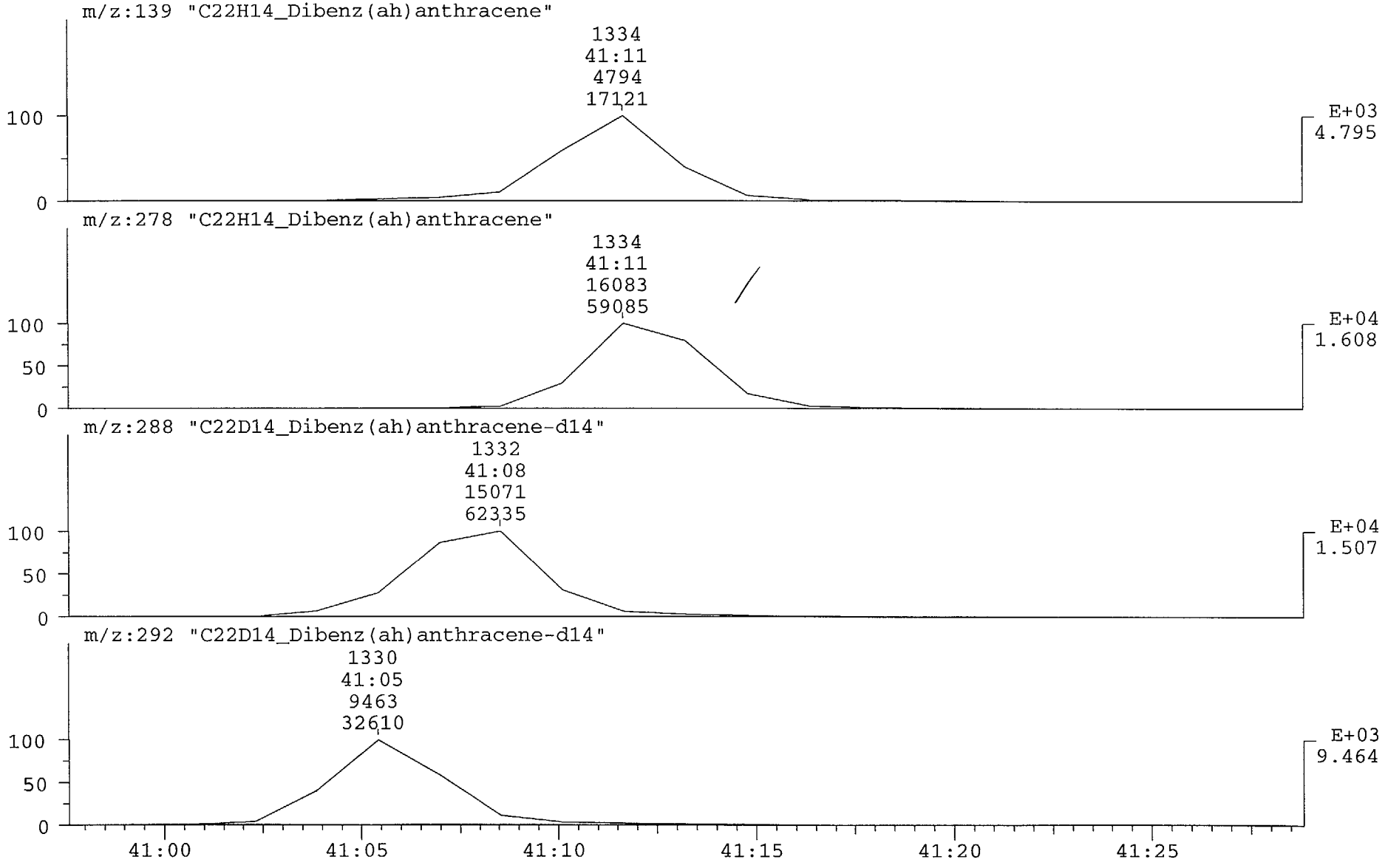
CHRO: yh2w51c 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w51c 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w5lc 13-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5l1ac Meth=YA1 Dil=1 Start : 24:39:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051C Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2W5LC.D
Date Acquired: 14 Apr 2006  12:39 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W5L1AC
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  7
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Tue Apr 18 15:55:36 2006
d:\cdffiles\YH2W5LC.CDF Translated at Tue Apr 18 15:55:36 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Tue Apr 18 10:22:03 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w5lc.dat
NetCDF File (input): /usr/users/hp/data/yh2w5lc.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Tue Apr 18 10:22:04 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AD	Prep Batch	6100051	Lot No	H6D100000-051
Data File	/20060413s2/yh2w511.d	Prep Date	04/10/06	SDG No	
Analysis ID	90127	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/14/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	01:28	Initial Wt/Vol	1	Lims Test Code	XXSINYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	110257	37393	1.748	500.0	514.466743	102.89	514.466743		0.409
Naphthalene	16:01	126604	43206	1.211	500.0	474.177064	94.84	474.177064	B	0.442
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene					500.0			ND		0.000000
2-Methylnaphthalene	18:03	84086	31986	1.269	500.0	465.352229	93.07	465.352229	B	0.376
2-Methylnaphthalene-d10	17:58	71218	26213	1.104	500.0	526.232806	105.25	526.232806		0.323
1-Methylnaphthalene	18:23	79038	32521	1.365	500.0	464.575087	92.92	464.575087	B	0.382
1-Methylnaphthalene-d10	18:18	62331	23961	0.958	500.0	530.481119	106.10	530.481119		0.373
1-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	101369	46422	1.533	500.0	464.305366	92.86	464.305366		0.716
2,6-Dimethylnaphthalene	19:56	73622	32378	1.249	500.0	455.589184	91.12	455.589184	B	1.62
2,6-Dimethylnaphthalene-d1	19:47	64671	24731	0.977	500.0	540.060060	108.01	540.060060		0.609
C2 Alkylnaphthalenes				1.249		455.589184		455.589184	B	1.07
Acenaphthylene	20:49	114694	44325	1.244	500.0	446.170457	89.23	446.170457		0.132
Acenaphthylene-d8	20:46	103361	45795	1.548	500.0	544.560713	108.91	544.560713		0.269
Acenaphthene-d10	21:17	61298	21004	1.000	500.0	500.000000	100.00	500.000000		0.536
Acenaphthene	21:21	72453	26741	0.762	500.0	459.766979	91.95	459.766979	B	0.824
2,3,5-Trimethylnaphthalene	22:28	67059	27568	1.127	500.0	460.010518	92.00	460.010518		0.269
C3 Alkylnaphthalenes				1.127		460.010518		460.010518		0.178
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene	22:52	86398	32761	0.915	500.0	436.986784	87.40	436.986784	B	0.332
Phenanthrene-d10	25:43	108038	45299	0.753	500.0	518.648890	103.73	518.648890		0.689
Phenanthrene	25:47	119450	54906	1.216	500.0	454.486653	90.90	454.486653	B	0.204
Anthracene-d10								ND		0.000000
Anthracene	25:56	92188	42969	1.059	500.0	402.901665	80.58	402.901665		0.235
1-Methylphenanthrene	27:40	87353	32210	0.870	500.0	464.521550	92.90	464.521550	B	0.349
Fluoranthene-d10	29:21	109099	49940	0.727	500.0	542.961892	108.59	542.961892		0.292
Fluoranthene	29:24	131222	57880	1.334	500.0	450.897470	90.18	450.897470	B	0.263
Pyrene-d10	30:02	138277	52988	1.000	500.0	500.000000	100.00	500.000000		0.212
Pyrene	30:05	134431	52728	1.369	500.0	450.096507	90.02	450.096507	B	0.256
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:37	81421	38226	0.521	500.0	565.105971	113.02	565.105971		0.317
Benzo(a)anthracene	33:40	105328	42748	1.454	500.0	444.946684	88.99	444.946684	B	0.202
Chrysene-d12	33:44	83493	39186	0.557	500.0	542.285906	108.46	542.285906		0.297
Chrysene	33:48	103634	48815	1.363	500.0	455.341638	91.07	455.341638	B	0.211
Benzo(b)Fluoranthene-d12	36:35	87547	32179	0.847	500.0	594.392586	118.88	594.392586		0.642
Benzo(k)Fluoranthene-d12	36:40	89038	35715	1.002	500.0	510.829480	102.17	510.829480		0.542
Benzo(b)fluoranthene	36:39	107823	45396	1.508	500.0	408.462672	81.69	408.462672	B	0.953
Benzo(k)fluoranthene	36:43	97654	38020	1.136	500.0	482.524455	96.50	482.524455	B	1.14
Benzo(e)pyrene-d12	37:23	86936	34487	1.000	500.0	500.000000	100.00	500.000000		0.544
Benzo(e)pyrene	37:27	98984	39199	1.589	500.0	485.934484	97.19	485.934484	B	1.27
Benzo(a)Pyrene-d12	37:33	64116	22876	0.737	500.0	500.405547	100.08	500.405547		0.738
Benzo(a)pyrene	37:36	75527	27963	1.333	500.0	441.958278	88.39	441.958278	B	1.52
Perylene-d12	37:46	80041	26812	0.887	500.0	519.270473	103.85	519.270473		0.613
Perylene	37:50	84438	28696	1.178	500.0	447.884774	89.58	447.884774	B	1.46
3-Methylcholanthrene					500.0			ND		0.000000

4/19/06

VMC 4/24/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5L1AD	**Prep Batch**	6100051	**Lot No**	H6D100000-051
Data File	/20060413s2/yh2w511.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90127	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	4/14/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	01:28	**Initial Wt/Vol**	1	**Lims Test Code**	XXSINYA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	38228	10742	0.405	500.0	543.418480	108.68	543.418480		0.717
Indeno(1,2,3-cd)pyrene-d12	41:08	73791	17090	0.779	500.0	544.777736	108.96	544.777736		0.326
Indeno(1,2,3-cd)pyrene	41:13	84170	21523	1.297	500.0	439.797902	87.96	439.797902	B	0.451
Dibenz(a,h)anthracene	41:11	68794	19036	2.059	500.0	437.071350	87.41	437.071350		0.452
Benzo(ghi)Perylene-d12	42:06	52763	13428	0.559	500.0	542.591523	108.52	542.591523		0.454
Benzo(ghi)perylene	42:12	79142	21384	1.698	500.0	441.642227	88.33	441.642227		0.439
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene					500.0			ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

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

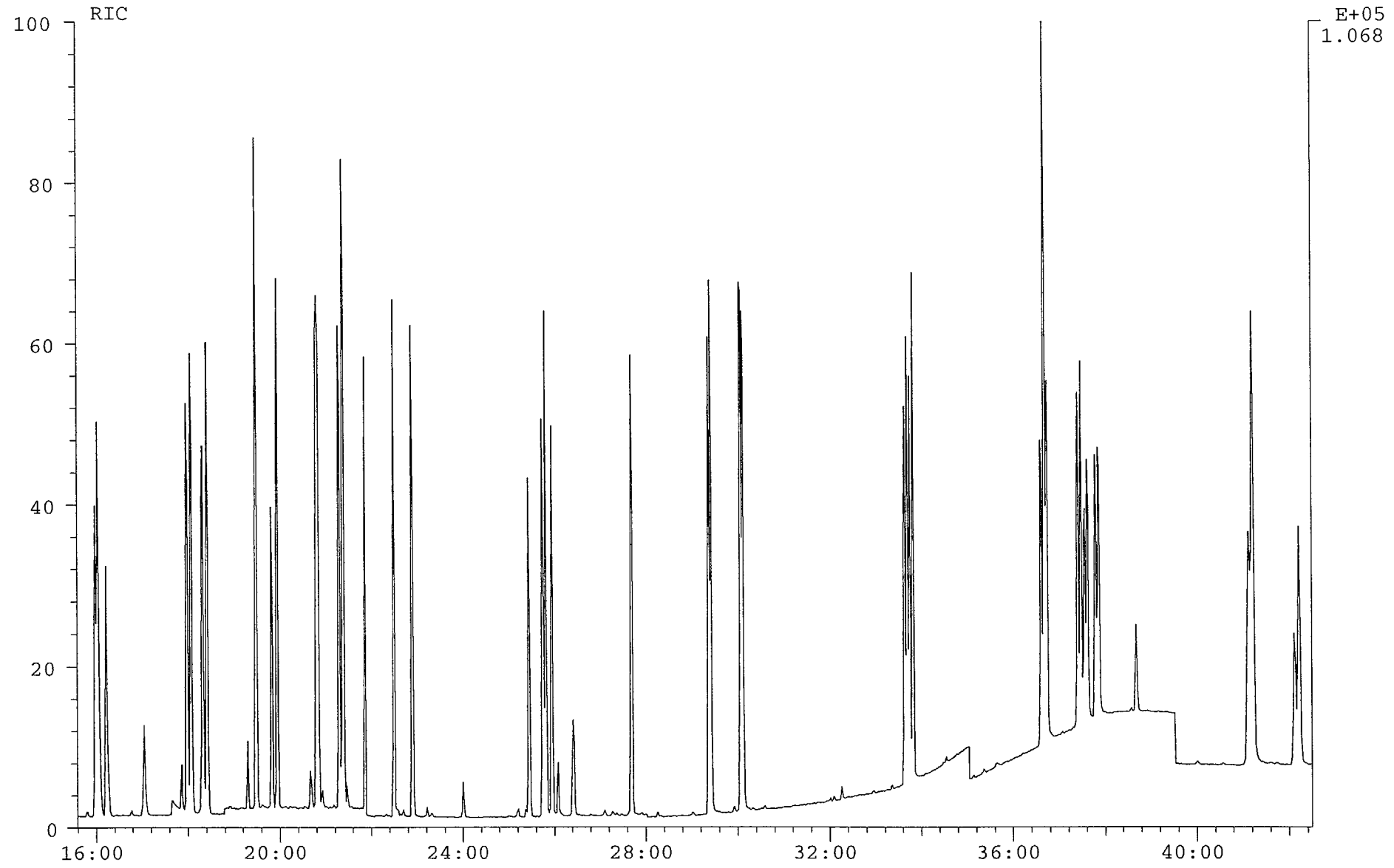
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
268					268.0000		268.0000				
	Noise	00:00	00:00	0	65		26				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	84170 ✓		21523			ABV	M
	Benzo(ghi)perylene	42:12	42:13	-1	79142 ✓		21384			ABB	
278					278.0000		278.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(a,h)anthracene	41:11	41:12	-1	68794 ✓		19036			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene-	41:08	41:08	0	73791 ✓		17090			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	52763 ✓		13428			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	38228 ✓		10742			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	8		3				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	8		3				

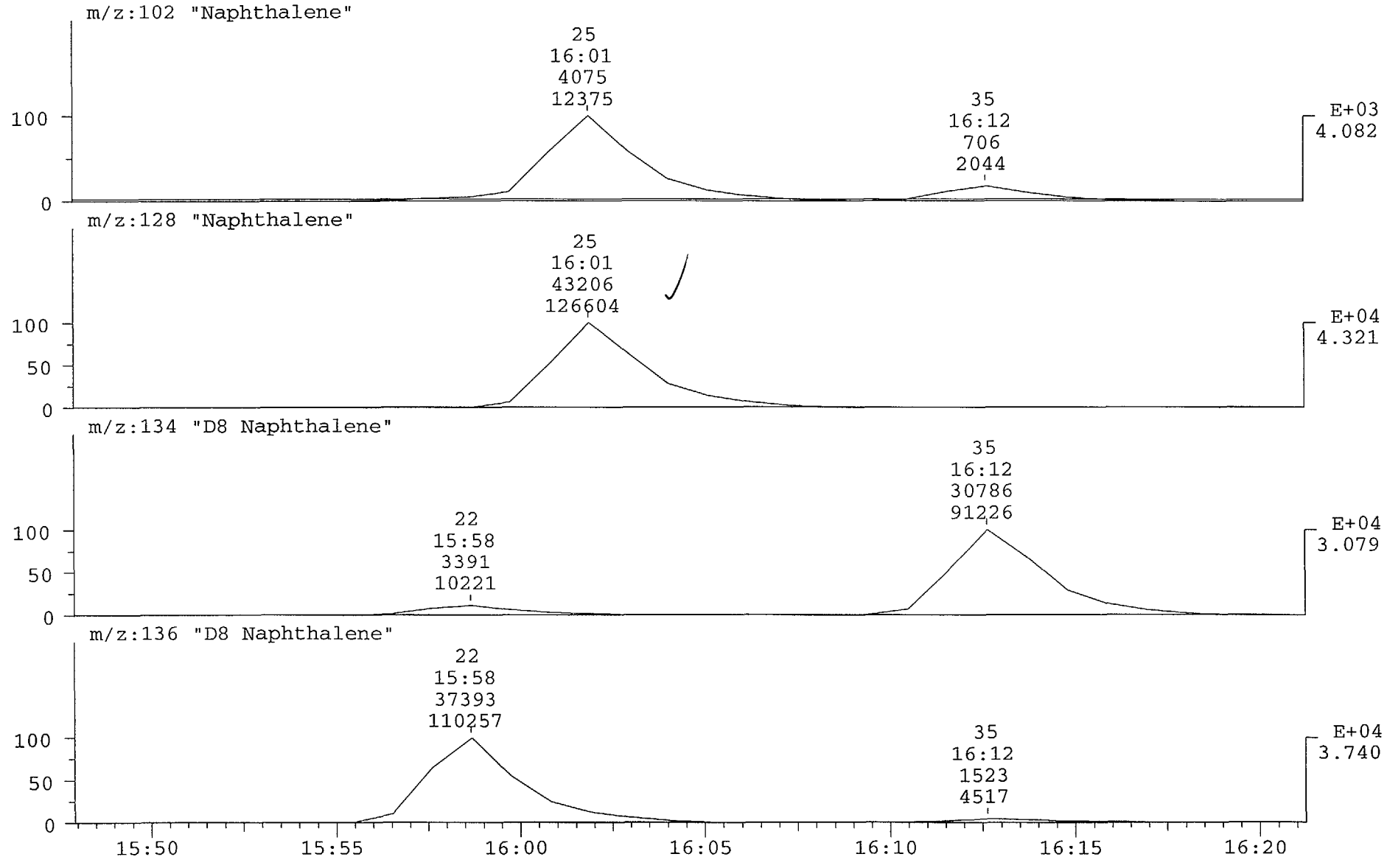
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO:	yh2w511	14-APR-06	Elapse:	42:06	1369
Samp:	WO=h2w511ad Meth=YA1 Dil=1		Start :	01:28:00	1384
Comm:	Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i				
Mode:	EI +VE + LMR (LIN) UP LR NETCDF		Study :	6100051	
Oper:	JMN Client: H6D100000-051L		Inlet :		
Peak:	100.00 ppm	Label wndw: 1365 > 1373	Masses:	0 > 308	
Area:	5, 0.50, 15	Baseline : 100, 3	Label :	0, 3.0	
Disp:	Height Area				

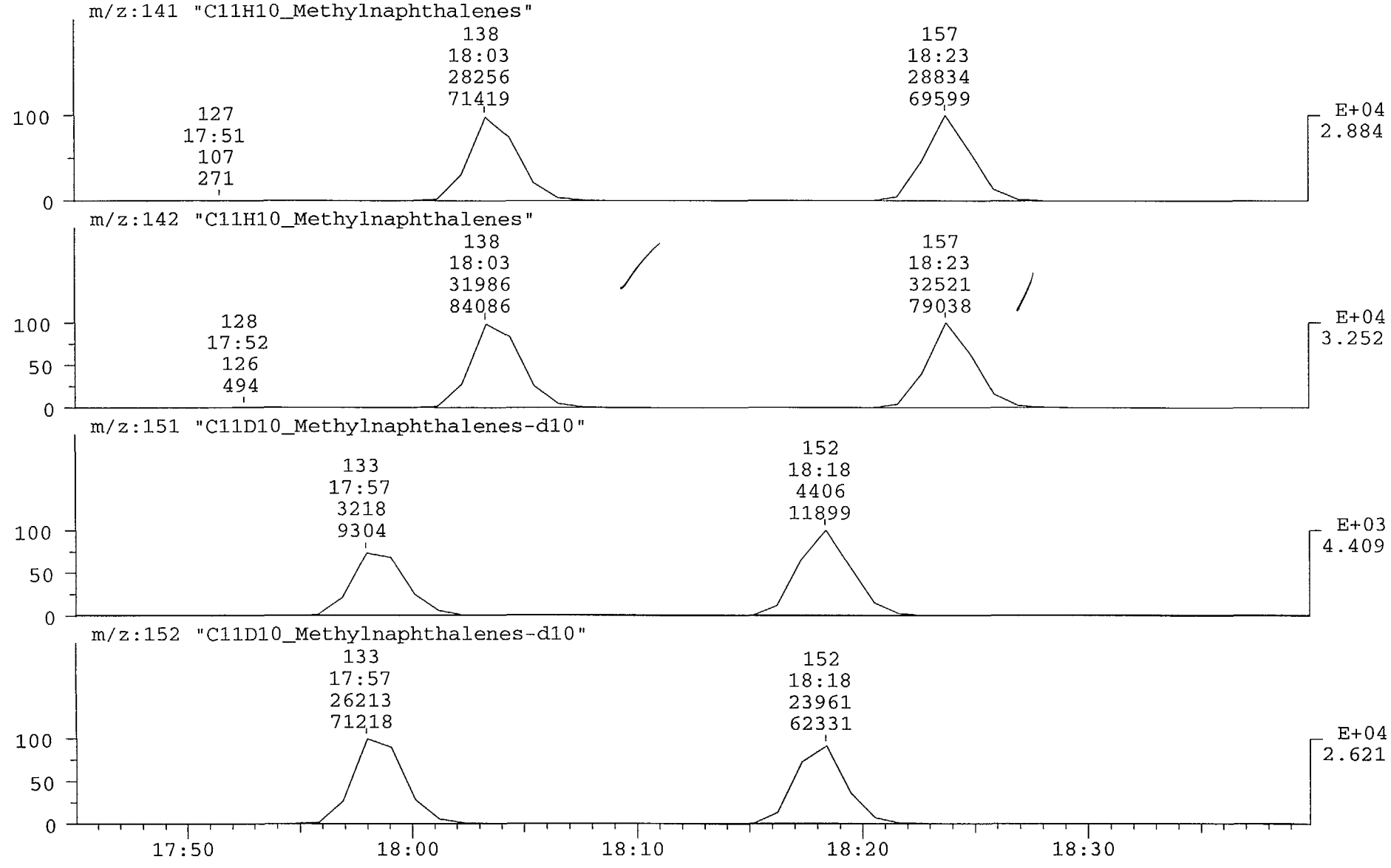
Last Cal: J 4/19/06
QC Rev MK 4/24/06



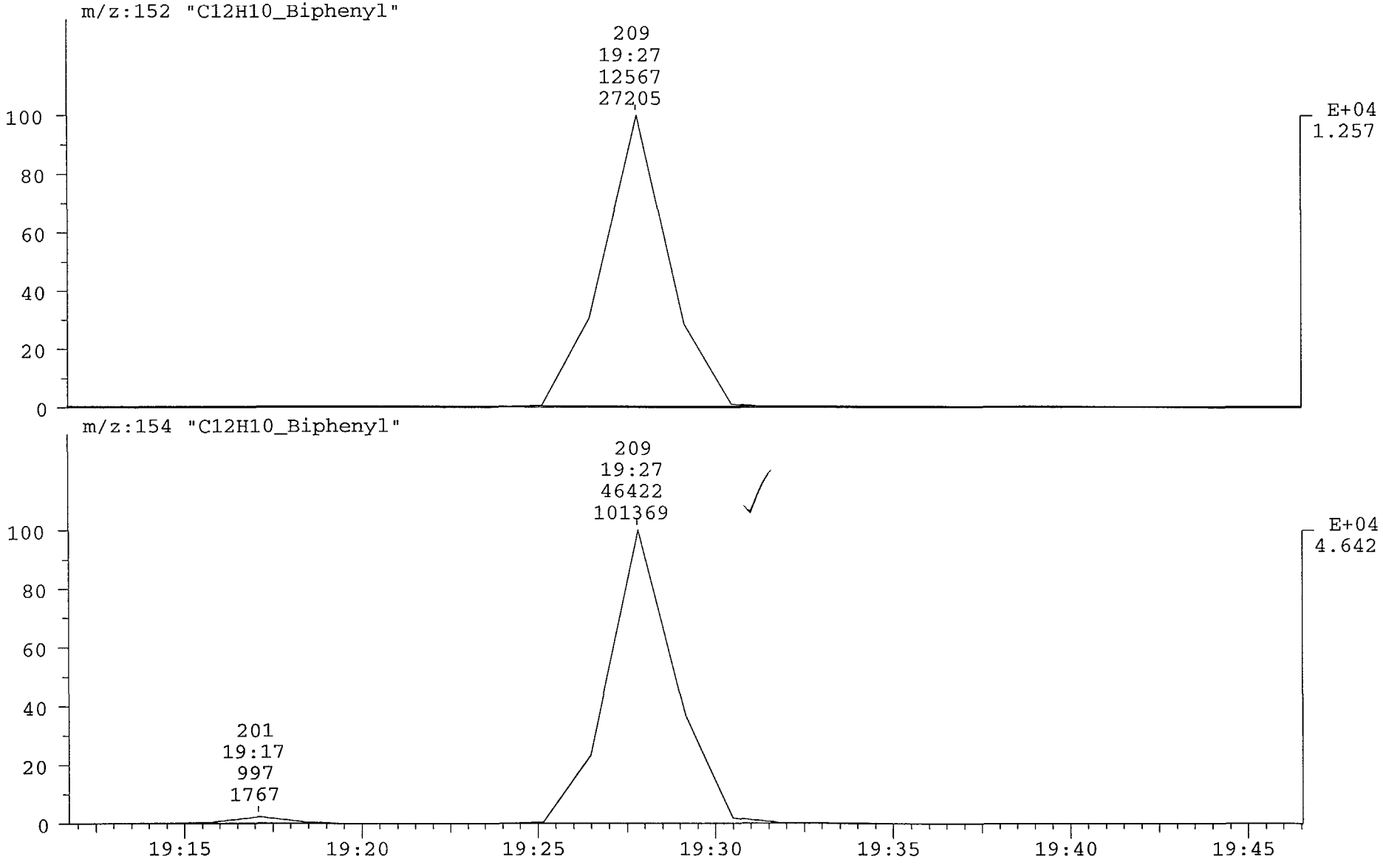
CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



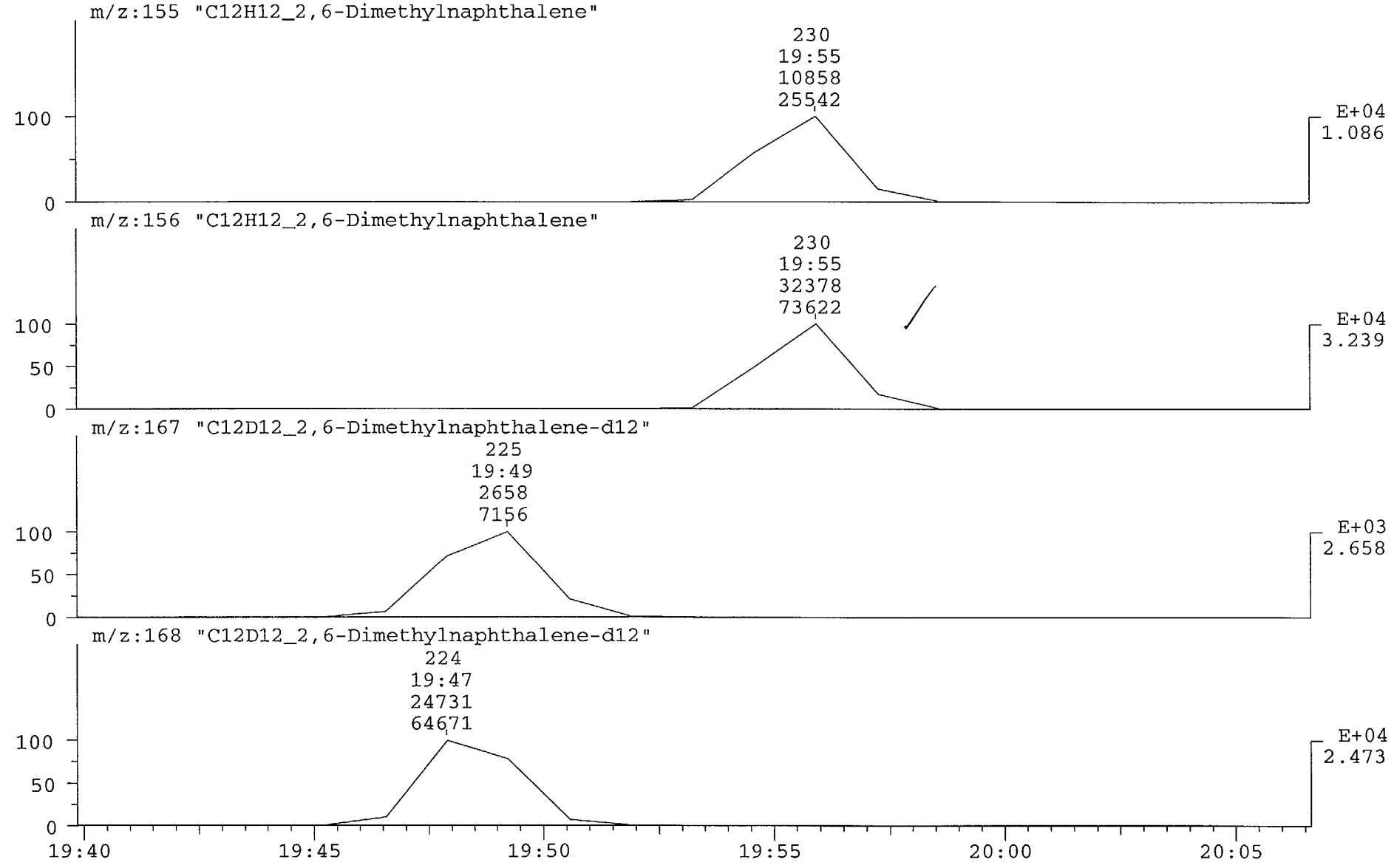
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Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



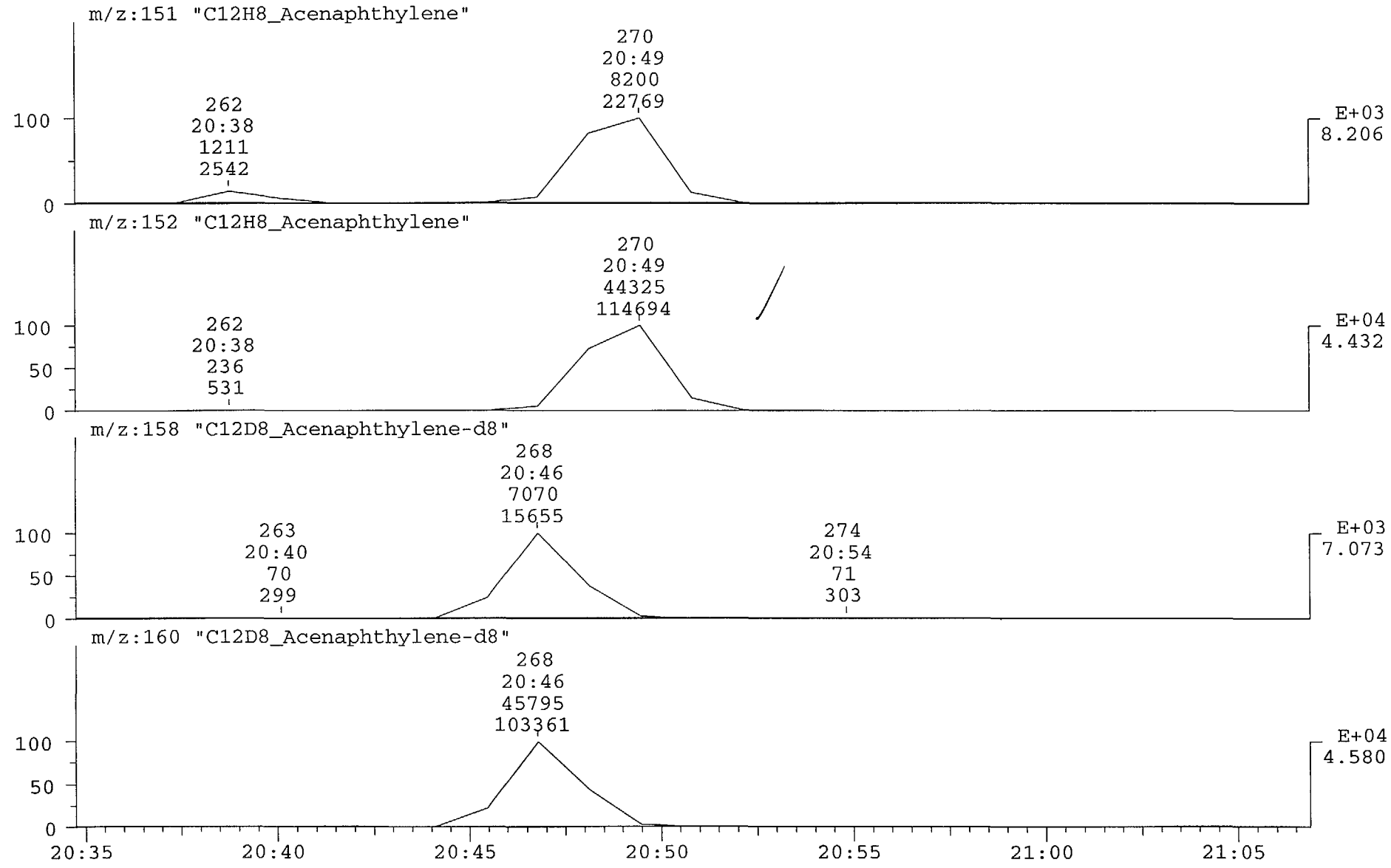
CHRO: yh2w5l1 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5l1ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



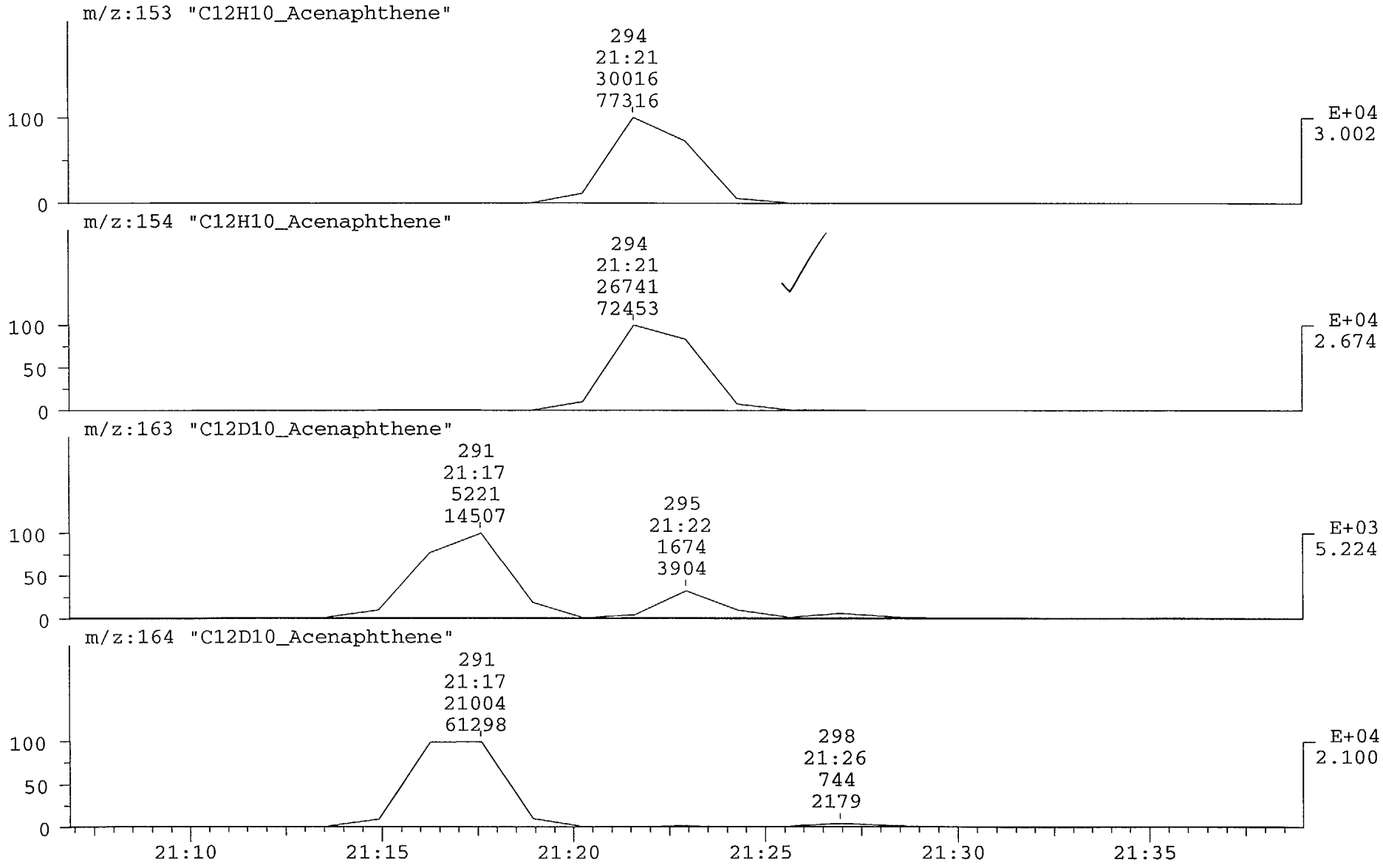
CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



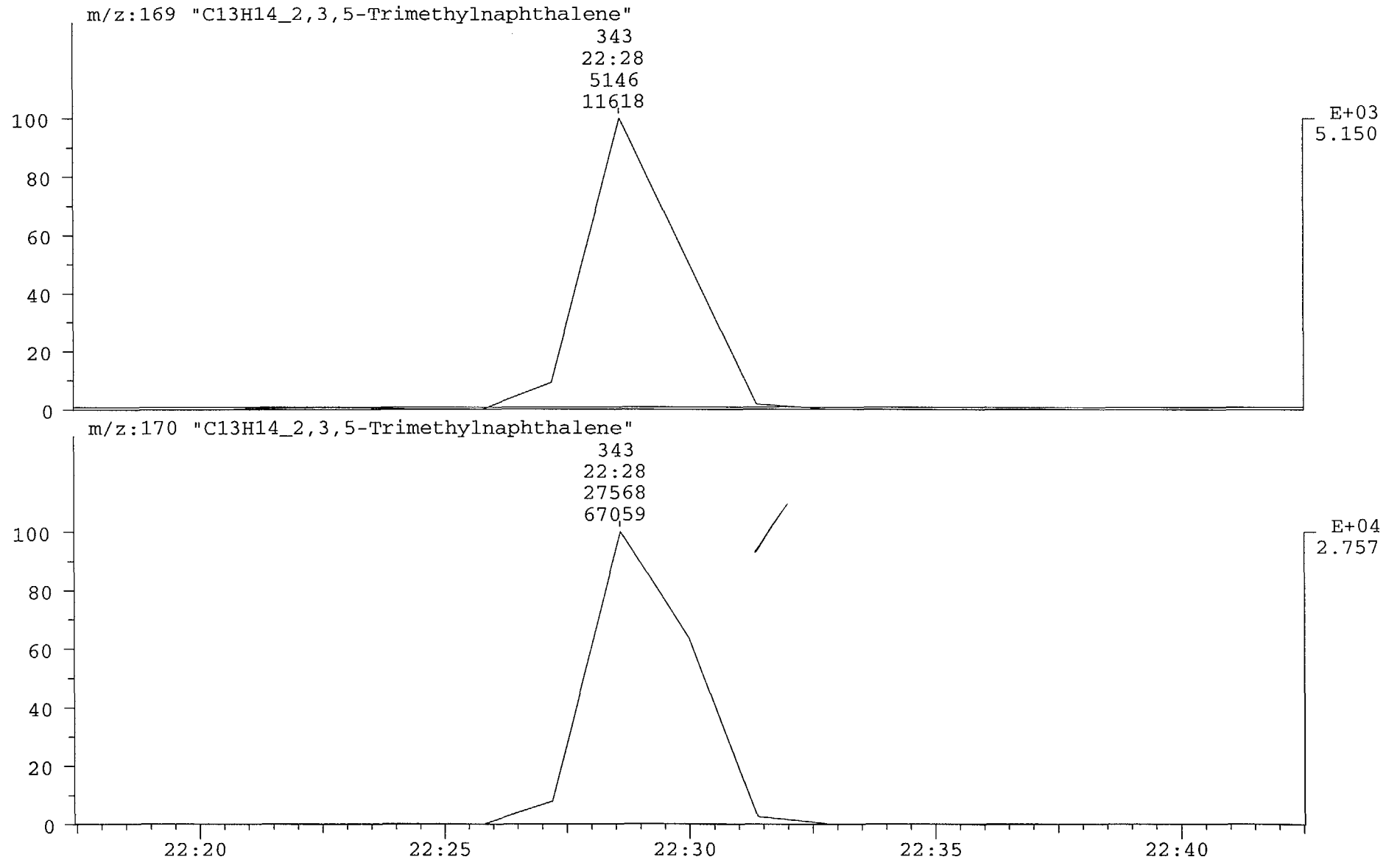
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Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



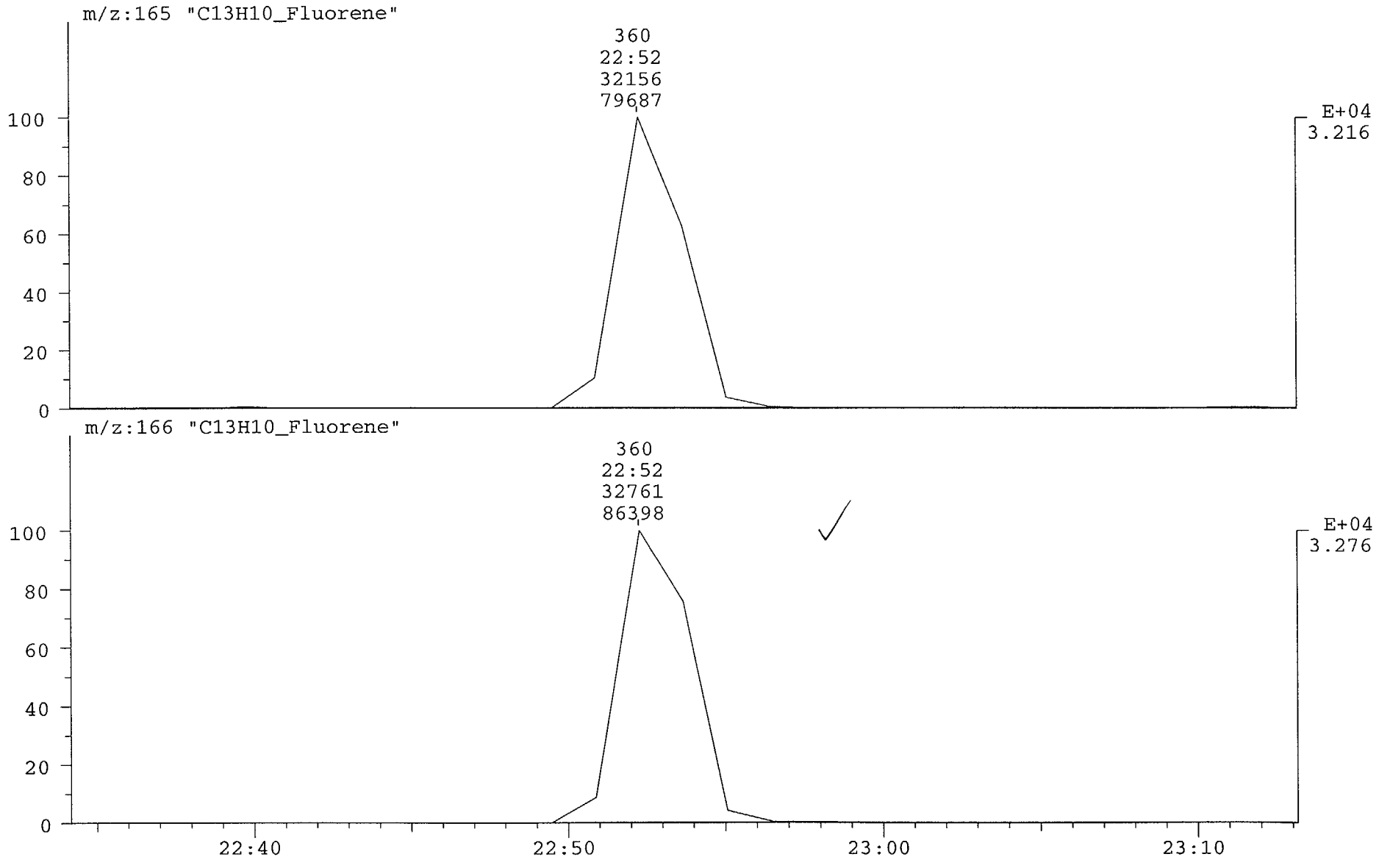
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Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



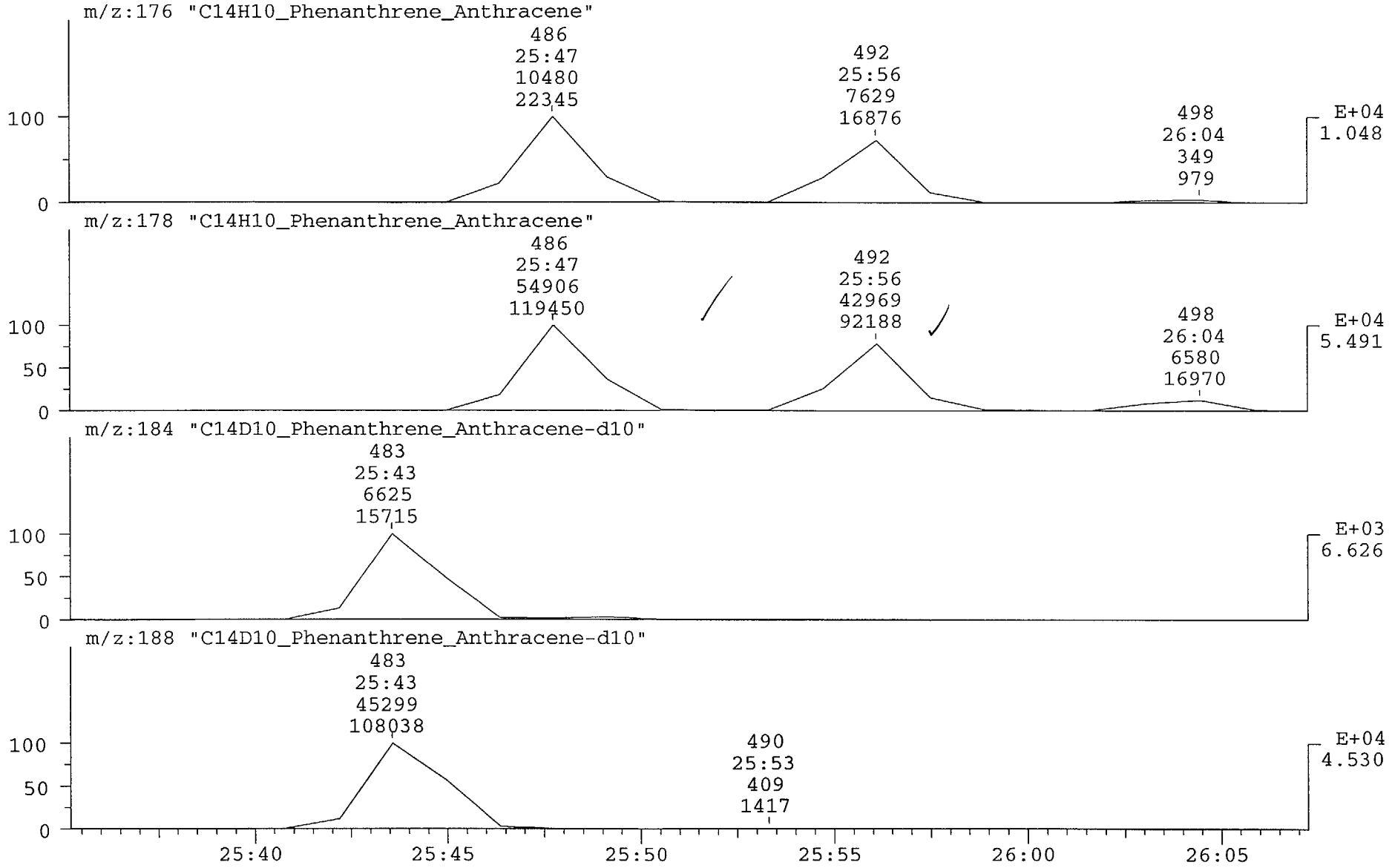
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Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



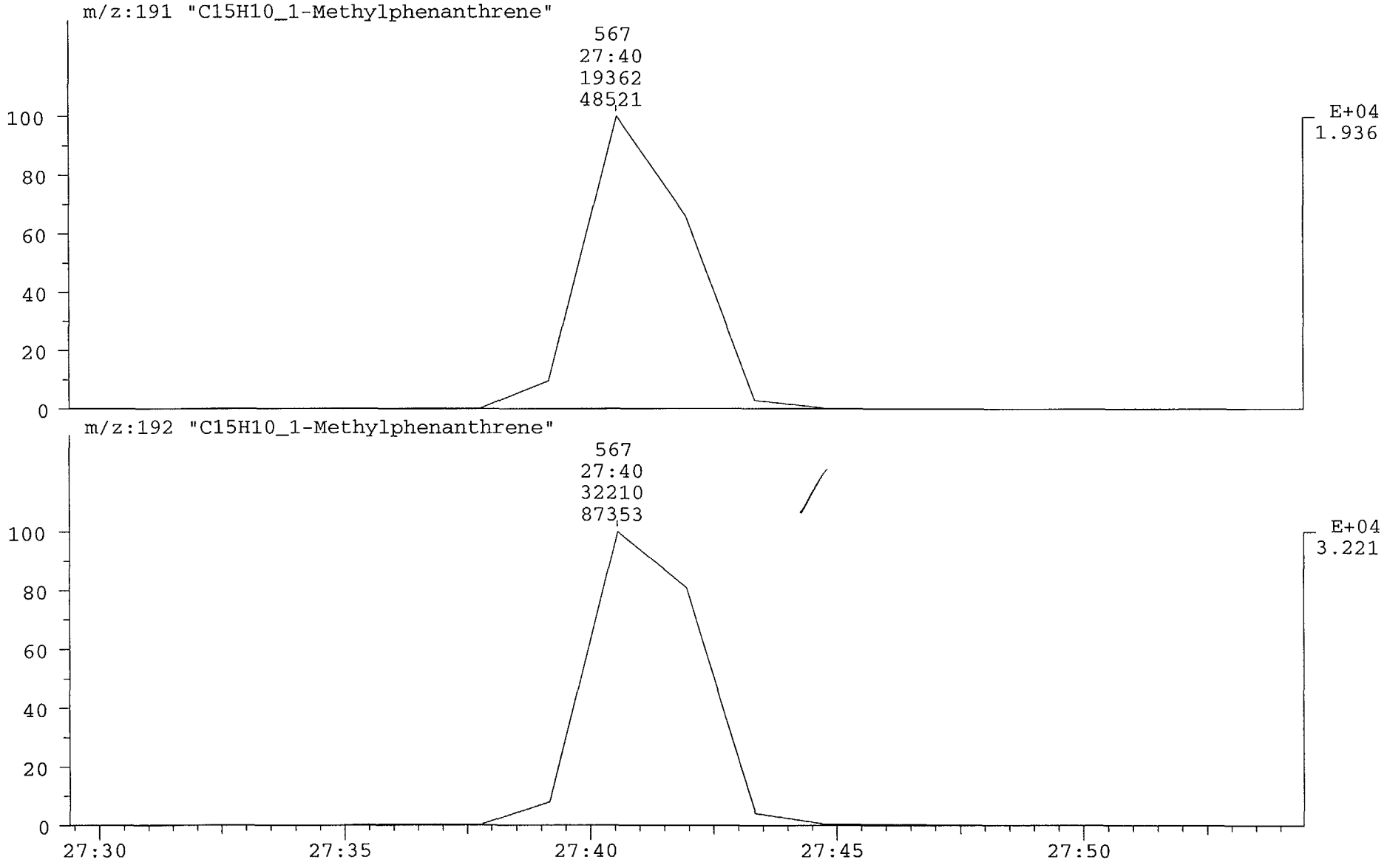
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Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
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Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



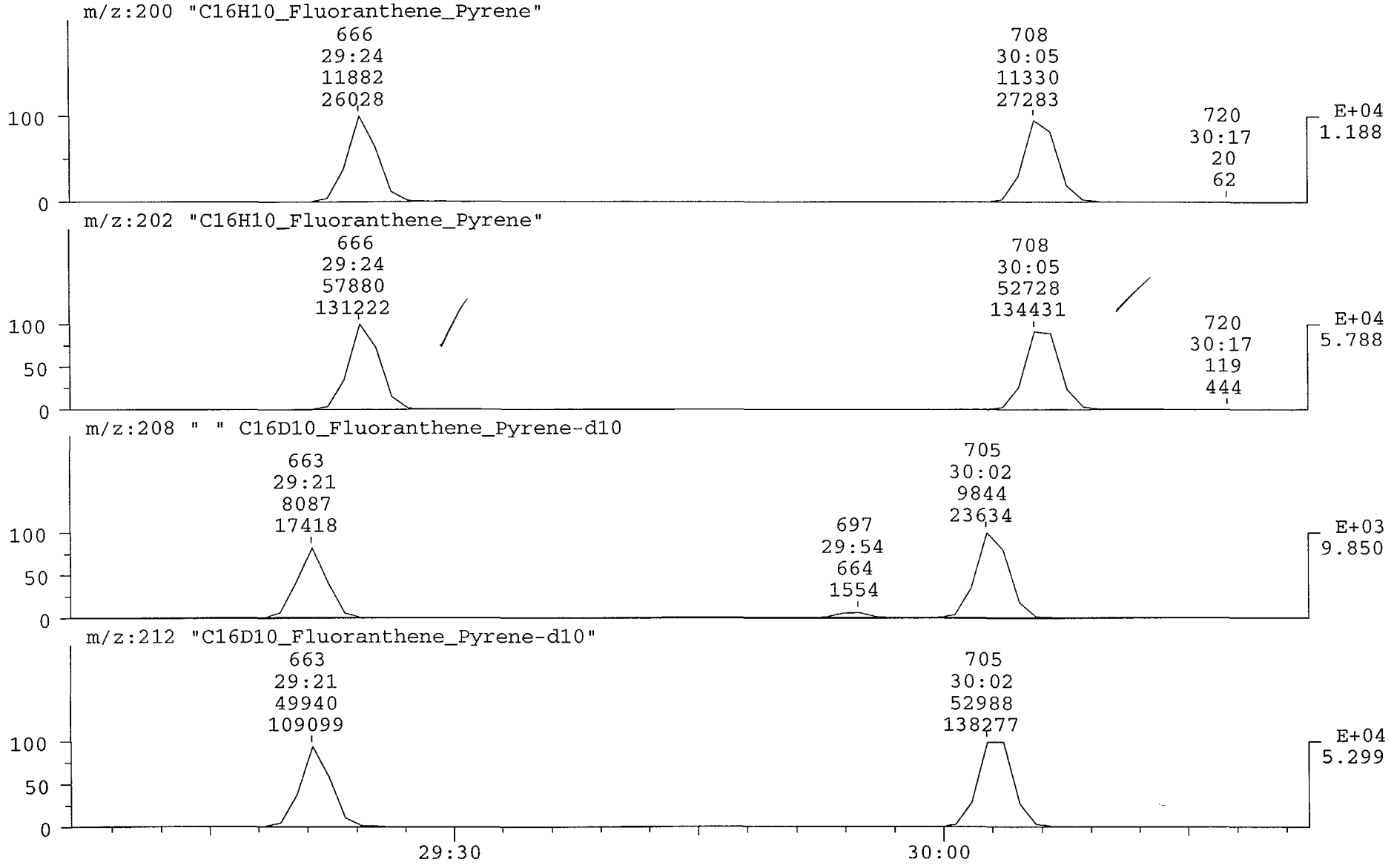
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Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
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Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
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Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



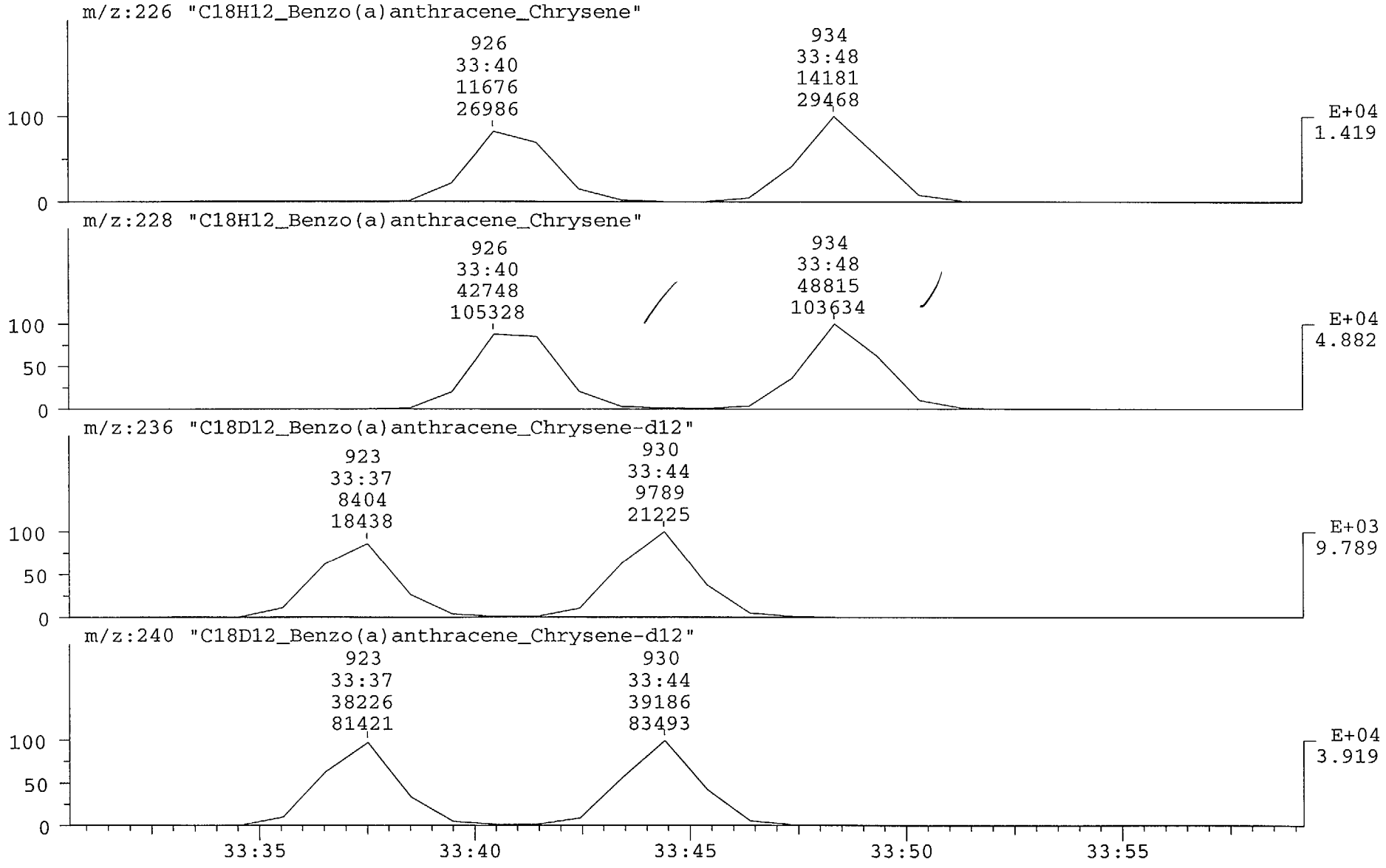
CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



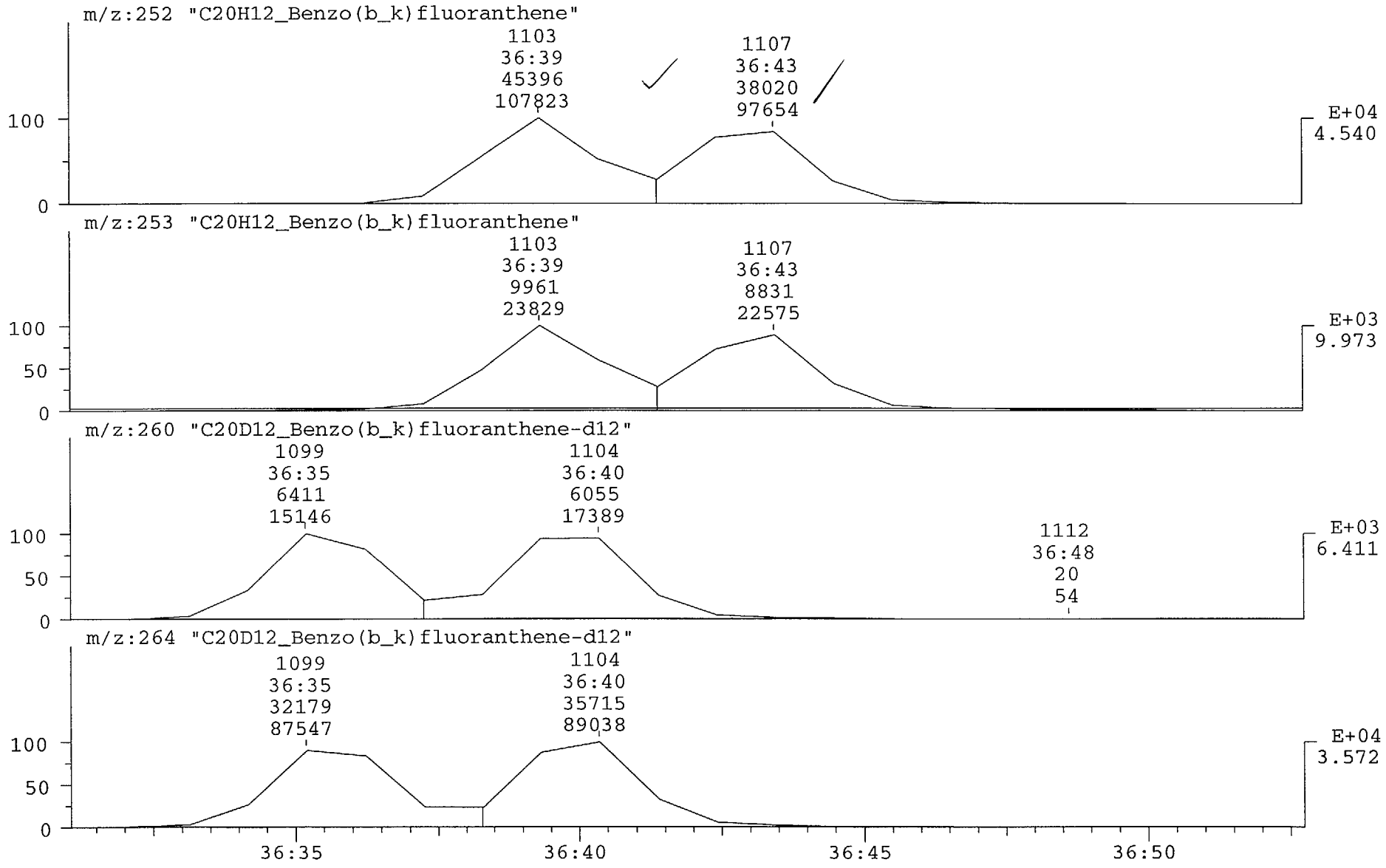
CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



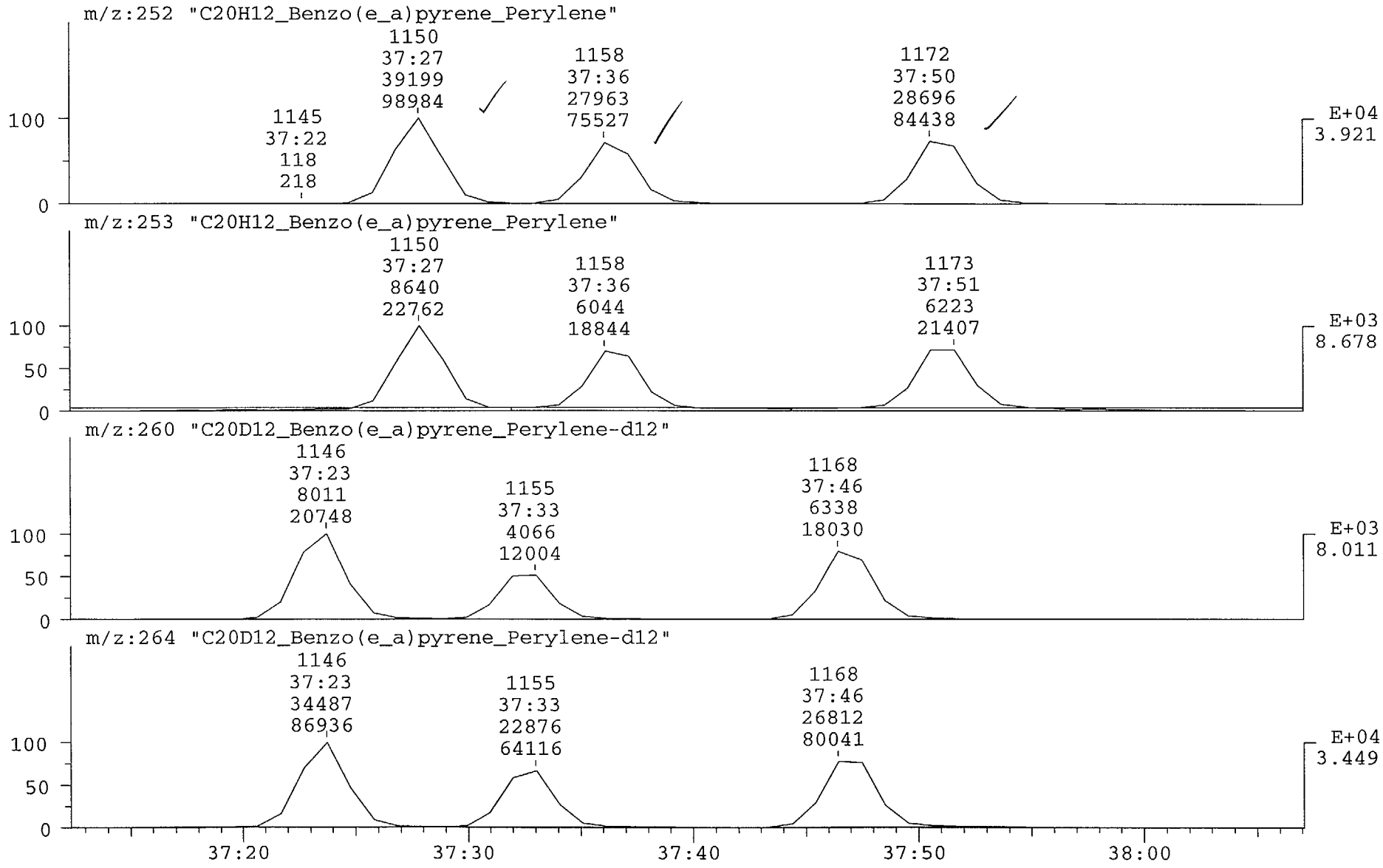
CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



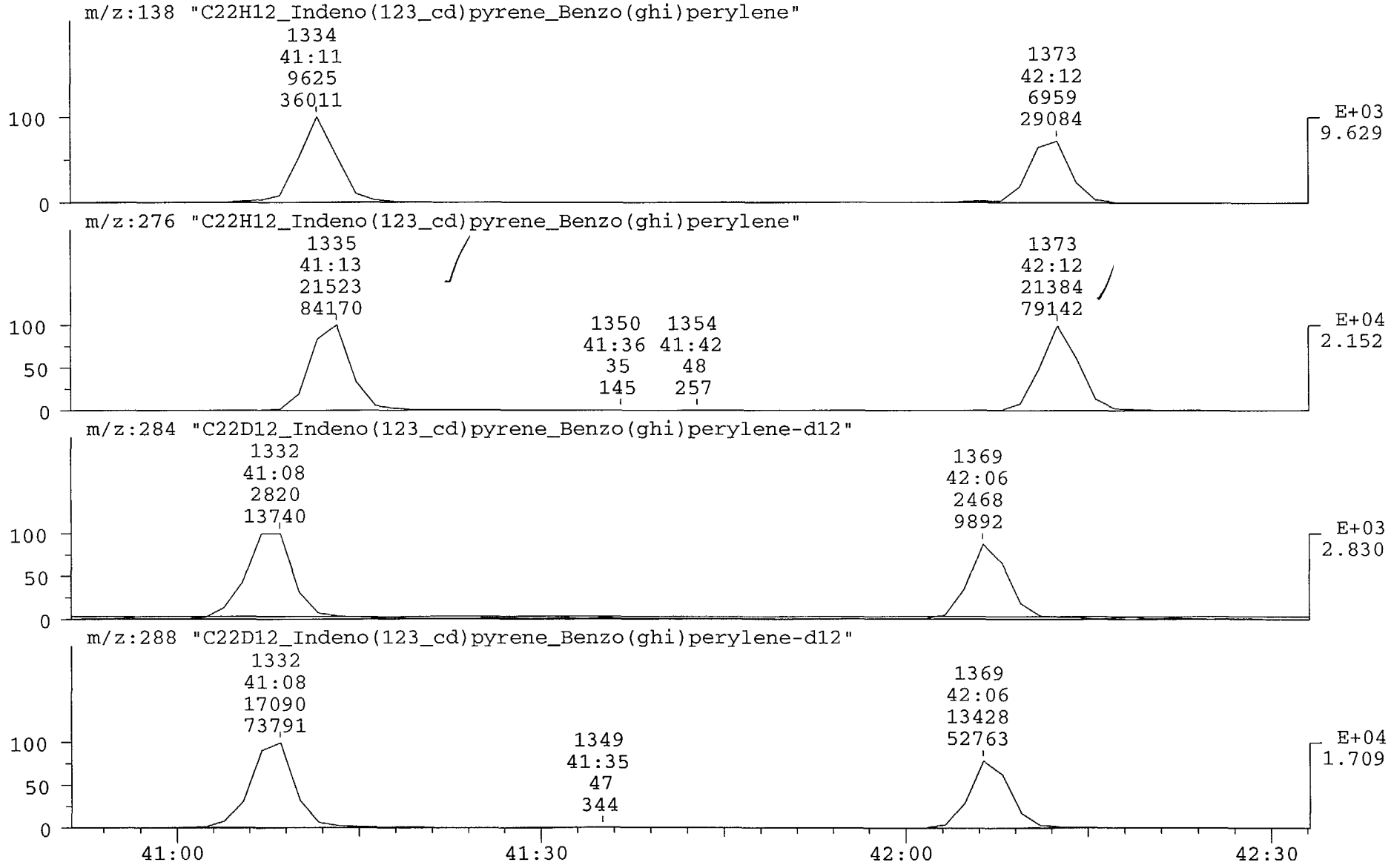
CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



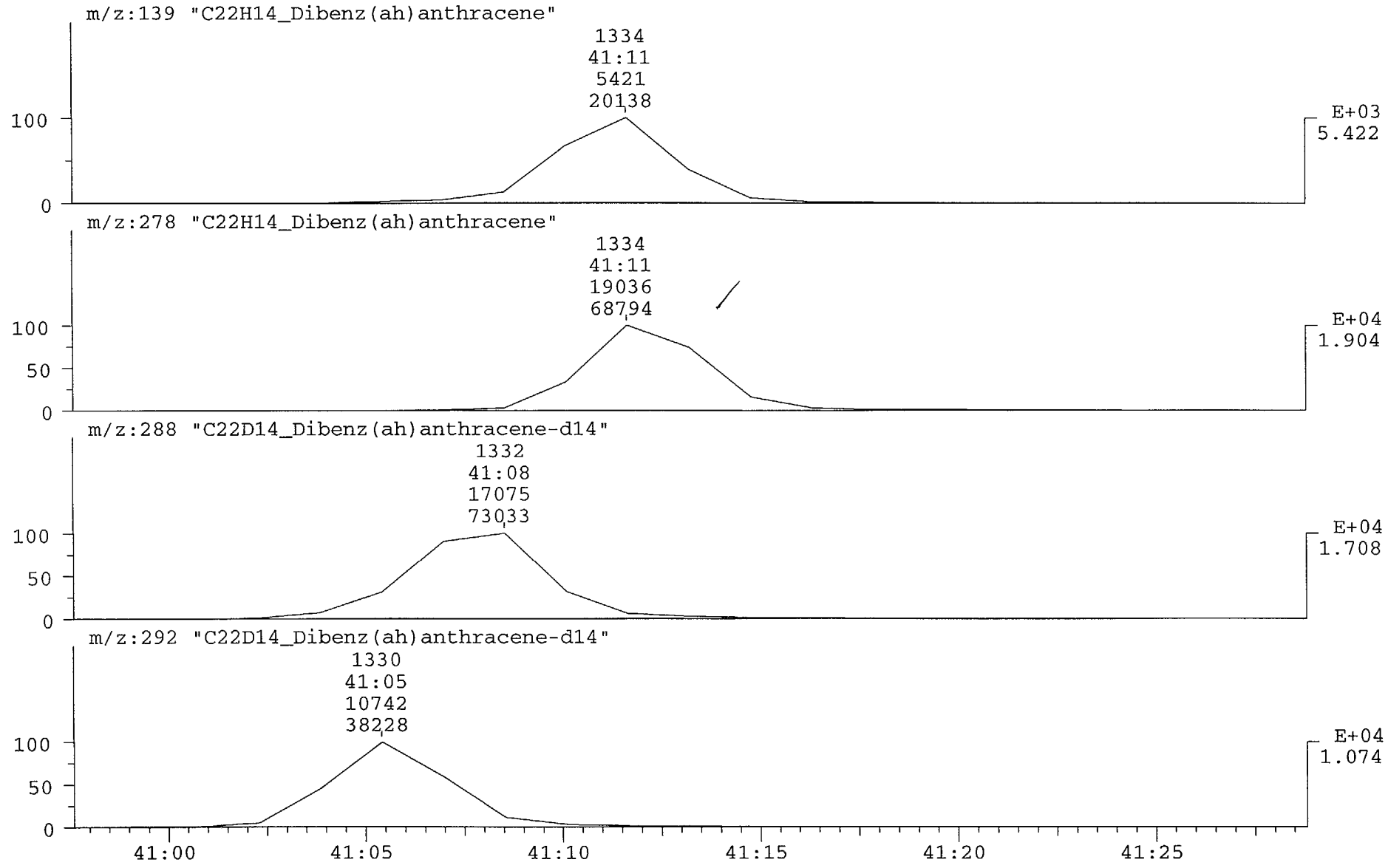
CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w511 14-APR-06 Elapse: 40:59 1326
Samp: WO=h2w511ad Meth=YA1 Dil=1 Start : 01:28:00 1384
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100051
Oper: JMN Client: H6D100000-051L Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2W5LL.D
Date Acquired: 14 Apr 2006   1:28 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W5L1AD
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  8
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Tue Apr 18 15:55:48 2006
d:\cdffiles\YH2W5LL.CDF Translated at Tue Apr 18 15:55:48 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Tue Apr 18 10:22:04 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w5ll.dat
NetCDF File (input): /usr/users/hp/data/yh2w5ll.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Tue Apr 18 10:22:05 EDT 2006

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

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H6D100000 - 060B **Work Order #....:** H2W5Q1AA **Matrix....:** AIR
Dilution Factor: 1
Prep Date....: 04/10/06 **Analysis Date....:** 04/28/06
Prep Batch # ....: 6100060
Initial Wgt/Vol : 1 Sample **Instrument ID....:** H2A **Method:** KNOX ID-0016
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	**3.1**	**J**	**20**	**1.6**	**ng/sampl**
Acenaphthylene	ND		20	0.45	ng/sampl
Anthracene	ND		20	0.76	ng/sampl
Benzo(a)anthracene	ND		20	0.38	ng/sampl
Benzo(b)fluoranthene	**3.9**	**J**	**20**	**1.7**	**ng/sampl**
Benzo(k)fluoranthene	ND		20	2.2	ng/sampl
Benzo(ghi)perylene	ND		20	0.98	ng/sampl
Benzo(a)pyrene	**5.2**	**J**	**20**	**3.2**	**ng/sampl**
Benzo(e)pyrene	**4.0**	**J**	**20**	**2.8**	**ng/sampl**
Chrysene	ND		20	0.41	ng/sampl
Dibenz(a,h)anthracene	ND		20	1.0	ng/sampl
Fluoranthene	**1.6**	**J**	**20**	**0.31**	**ng/sampl**
Fluorene	**3.0**	**J**	**20**	**0.72**	**ng/sampl**
Indeno(1,2,3-cd)pyrene	ND		20	0.69	ng/sampl
2-Methylnaphthalene	**13**	**J**	**20**	**0.57**	**ng/sampl**
Naphthalene	**23**	**J**	**20**	**0.46**	**ng/sampl**
Perylene	**5.2**	**J**	**20**	**3.8**	**ng/sampl**
Phenanthrene	**5.7**	**J**	**20**	**0.67**	**ng/sampl**
Pyrene	**1.7**	**J**	**20**	**0.30**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
Naphthalene-d8	92		15 - 120
2-Methylnaphthalene-d10	94		20 - 120
Acenaphthylene-d8	85		20 - 120
Phenanthrene-d10	107		30 - 120
Fluoranthene-d10	105		30 - 120
Benzo(a)anthracene-d12	104		30 - 120
Chrysene-d12	107		30 - 120
Benzo(b)fluoranthene-d12	121	*	30 - 120
Benzo(k)fluoranthene-d12	100		30 - 120
Benzo(a)pyrene-d12	87		30 - 120
Perylene-d12	74		30 - 120
Indeno(1,2,3-cd)pyrene-d12	108		30 - 120
Dibenz(ah)anthracene-d14	110		30 - 120
Benzo(ghi)perylene-d12	76		30 - 120

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H6D100000 - 060B	**Work Order #....:**	H2W5Q1AA	**Matrix.....:**	AIR
Dilution Factor:	1				
Prep Date.....:	04/10/06	**Analysis Date....:**	04/28/06		
Prep Batch # ....:	6100060				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

QUALIFIERS

* Surrogate recovery is outside stated control limits.

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AA	**Prep Batch**	6100060	**Lot No**	H6D100000-060
Data File	/20060428s1/yh2w5qba.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90381	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	4/28/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	15:22	**Initial Wt/Vol**	1	**Lims Test Code**	XXSIOYA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:57	52961	15385	1.623	500.0	459.668264	91.93	459.668264		0.409
Naphthalene	16:00	3020	895	1.233		23.130907		23.130907		0.461
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:02	1170	434	1.270		12.659985		12.659985	J	0.573
2-Methylnaphthalene-d10	17:56	36394	13755	1.093	500.0	469.190531	93.84	469.190531		0.781
1-Methylnaphthalene	18:22	571	230	1.358		6.277984		6.277984	J	0.624
1-Methylnaphthalene-d10	18:17	33492	11798	0.958	500.0	492.752662	98.55	492.752662		0.891
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:26	447	181	1.552		3.956598		3.956598	J	1.11
2,6-Dimethylnaphthalene	19:54	421	150	1.240		4.797922		4.797922	J	1.70
2,6-Dimethylnaphthalene-d1	19:47	35371	12436	1.009	500.0	493.829903	98.77	493.829903		0.939
C2 Alkylnaphthalenes				1.240		4.797922		4.797922	J	1.38
Acenaphthylene				1.221				ND		0.453
Acenaphthylene-d8	20:45	49594	20337	1.646	500.0	424.453877	84.89	424.453877		0.403
Acenaphthene-d10	21:16	35484	13184	1.000	500.0	500.000000	100.00	500.000000		0.569
Acenaphthene	21:21	229	79	0.740		3.121898		3.121898	J	1.58
2,3,5-Trimethylnaphthalene	22:27	150	58	1.140		1.860274		1.860274	J	0.705
C3 Alkylnaphthalenes				1.140		1.860274		1.860274	J	0.570
Fluorene d-10				0.805	1000			ND		0.217
Fluorene-C13				0.752	1000			ND		0.309
Fluorene	22:52	296	102	0.892		3.007520		3.007520	J	0.717
Phenanthrene-d10	25:42	55172	21491	0.793	500.0	532.798459	106.56	532.798459		0.266
Phenanthrene	25:46	755	308	1.210		5.654047		5.654047	J	0.673
Anthracene-d10					500.0			ND		0.000000
Anthracene				1.065				ND		0.765
1-Methylphenanthrene				0.871				ND		0.534
Fluoranthene-d10	29:20	52078	21794	0.761	500.0	523.607730	104.72	523.607730		0.444
Fluoranthene	29:23	217	95	1.298		1.604955		1.604955	J	0.309
Pyrene-d10	30:01	65308	29589	1.000	500.0	500.000000	100.00	500.000000		0.338
Pyrene	30:04	233	99	1.319		1.696133		1.696133	J	0.304
Terphenyl-d14				0.762	1000			ND		0.226
Benzo(a)Anthracene-d12	33:35	35023	16652	0.514	500.0	521.573317	104.31	521.573317		0.822
Benzo(a)anthracene				1.385				ND		0.379
Chrysene-d12	33:42	35923	15905	0.516	500.0	532.972526	106.59	532.972526		0.819
Chrysene				1.333				ND		0.413
Benzo(b)Fluoranthene-d12	36:34	37025	14331	0.895	500.0	607.083427	121.42	607.083427		0.604
Benzo(k)Fluoranthene-d12	36:38	35230	14872	1.030	500.0	501.612066	100.32	501.612066		0.525
Benzo(b)fluoranthene	36:37	421	171	1.446		3.933077		3.933077	J	1.69
Benzo(k)fluoranthene				1.093				ND		2.15
Benzo(e)pyrene-d12	37:21	34087	13871	1.000	500.0	500.000000	100.00	500.000000		0.541
Benzo(e)pyrene	37:25	276	111	1.495		4.026723		4.026723	J	2.78
Benzo(a)Pyrene-d12	37:31	22920	8405	0.776	500.0	433.226742	86.65	433.226742		0.697
Benzo(a)pyrene	37:34	306	98	1.286		5.191647		5.191647	J	3.24
Perylene-d12	37:44	23668	8049	0.936	500.0	370.815919	74.16	370.815919		0.578
Perylene	37:49	280	92	1.140		5.189009		5.189009	J	3.81
3-Methylcholanthrene								ND		0.000000

JMC 4/28/06 4/28/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AA	**Prep Batch**	6100060	**Lot No**	H6D100000-060
Data File	/20060428s1/yh2w5qba.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90381	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	4/28/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	15:22	**Initial Wt/Vol**	1	**Lims Test Code**	XXSIOYA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample	DL (ng/samp
Dibenz(ah)Anthracene-d14	41:02	15008	4253	0.402	500.0	548.036750	109.61	548.036750	1.12
Indeno(1,2,3-cd)pyrene-d12	41:05	28513	7197	0.772	500.0	541.689225	108.34	541.689225	0.467
Indeno(1,2,3-cd)pyrene				1.259				ND	0.690
Dibenz(a,h)anthracene				1.961				ND	1.05
Benzo(ghi)Perylene-d12	42:03	14587	3873	0.561	500.0	381.472762	76.29	381.472762	0.643
Benzo(ghi)perylene				1.639				ND	0.984
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene								ND	0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AA	**Prep Batch**	6100060	**Lot No**	H6D100000-060
Data File	/20060428s1/yh2w5qba.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90381	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	04/28/06 15:22	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOYA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration Flags
128					**128.0000**		**128.0000**			
	Noise	00:00	00:00	0	18		7			
	Naphthalene	16:00	16:00	0	3020		895			ABB
136					**136.0000**		**136.0000**			
	Noise	00:00	00:00	0	18		7			
	Naphthalene-d8	15:57	15:57	0	52961		15385			ABB
142					**142.0000**		**142.0000**			
	Noise	00:00	00:00	0	20		8			
	2-Methylnaphthalene	18:02	18:03	-1	1170		434			MBB
	1-Methylnaphthalene	18:22	18:22	0	571		230			ABB
152					**152.0000**		**152.0000**			
	Noise	00:00	00:00	0	23		9			
	2-Methylnaphthalene-d10	17:56	17:58	-2	36394		13755			ABB
	1-Methylnaphthalene-d10	18:17	18:17	0	33492		11798			ABB
154					**154.0000**		**154.0000**			
	Noise	00:00	00:00	0	48		19			
	Biphenyl	19:26	19:26	0	447		181			ABB
	Acenaphthene	21:21	21:21	0	229		79			MBB
156					**156.0000**		**156.0000**			
	Noise	00:00	00:00	0	53		21			
	2,6-Dimethylnaphthalene	19:54	19:54	0	421		150			ABB
160					**160.0000**		**160.0000**			
	Noise	00:00	00:00	0	18		7			
	Acenaphthylene-d8	20:45	20:46	-1	49594		20337			AVB
162					**162.0000**		**162.0000**			
	Noise	00:00	00:00	0	13		5			
164					**164.0000**		**164.0000**			
	Noise	00:00	00:00	0	15		6			
	Acenaphthene-d10	21:16	21:16	0	35484		13184			ABB
166					**166.0000**		**166.0000**			
	Noise	00:00	00:00	0	28		11			
	Fluorene	22:52	22:52	0	296		102			MVV
168					**168.0000**		**168.0000**			
	Noise	00:00	00:00	0	25		10			
	2,6-Dimethylnaphthalene	19:47	19:47	0	35371		12436			ABB
169					**169.0000**		**169.0000**			
	Noise	00:00	00:00	0	35		14			
170					**170.0000**		**170.0000**			
	Noise	00:00	00:00	0	20		8			
	2,3,5-Trimethylnaphthal	22:27	22:28	-1	150		58			MVV
172					**172.0000**		**172.0000**			
	Noise	00:00	00:00	0	10		4			
176					**176.0000**		**176.0000**			

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

STL - Knoxville **IsoCalc Preliminary Peak Report**

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AA	**Prep Batch**	6100060	**Lot No**	H6D100000-060
Data File	/20060428s1/yh2w5qba.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90381	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	04/28/06 15:22	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOYA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	8		3				
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	35		14				
	Phenanthrene	25:46	25:47	-1	755		308			ABB	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	13		5				
	Phenanthrene-d10	25:42	25:43	-1	55172		21491			ABV	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	20		8				
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene	29:23	29:23	0	217		95			MBB	
	Pyrene	30:04	30:05	-1	233		99			MVB	
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene-d10	29:20	29:20	0	52078		21794			ABV	
	Pyrene-d10	30:01	30:01	0	65308		29589			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	18		7				
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	25		10				
	Benzo(a)Anthracene-d12	33:35	33:35	0	35023		16652			ABV	
	Chrysene-d12	33:42	33:42	0	35923		15905			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	8		3				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	70		28				
	Benzo(b)fluoranthene	36:37	36:37	0	421		171			MBV	
	Benzo(e)pyrene	37:25	37:25	0	276		111			MBV	M
	Benzo(a)pyrene	37:34	37:34	0	306		98			MVV	M
	Perylene	37:49	37:48	1	280		92			MVV	M
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	15		6				
	Benzo(b)Fluoranthene-d1	36:34	36:33	1	37025		14331			ABV	
	Benzo(k)Fluoranthene-d1	36:38	36:37	1	35230		14872			AVV	
	Benzo(e)pyrene-d12	37:21	37:21	0	34087		13871			ABV	
	Benzo(a)Pyrene-d12	37:31	37:30	1	22920		8405			AVV	
	Perylene-d12	37:44	37:44	0	23668		8049			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	48		19				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	13		5				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

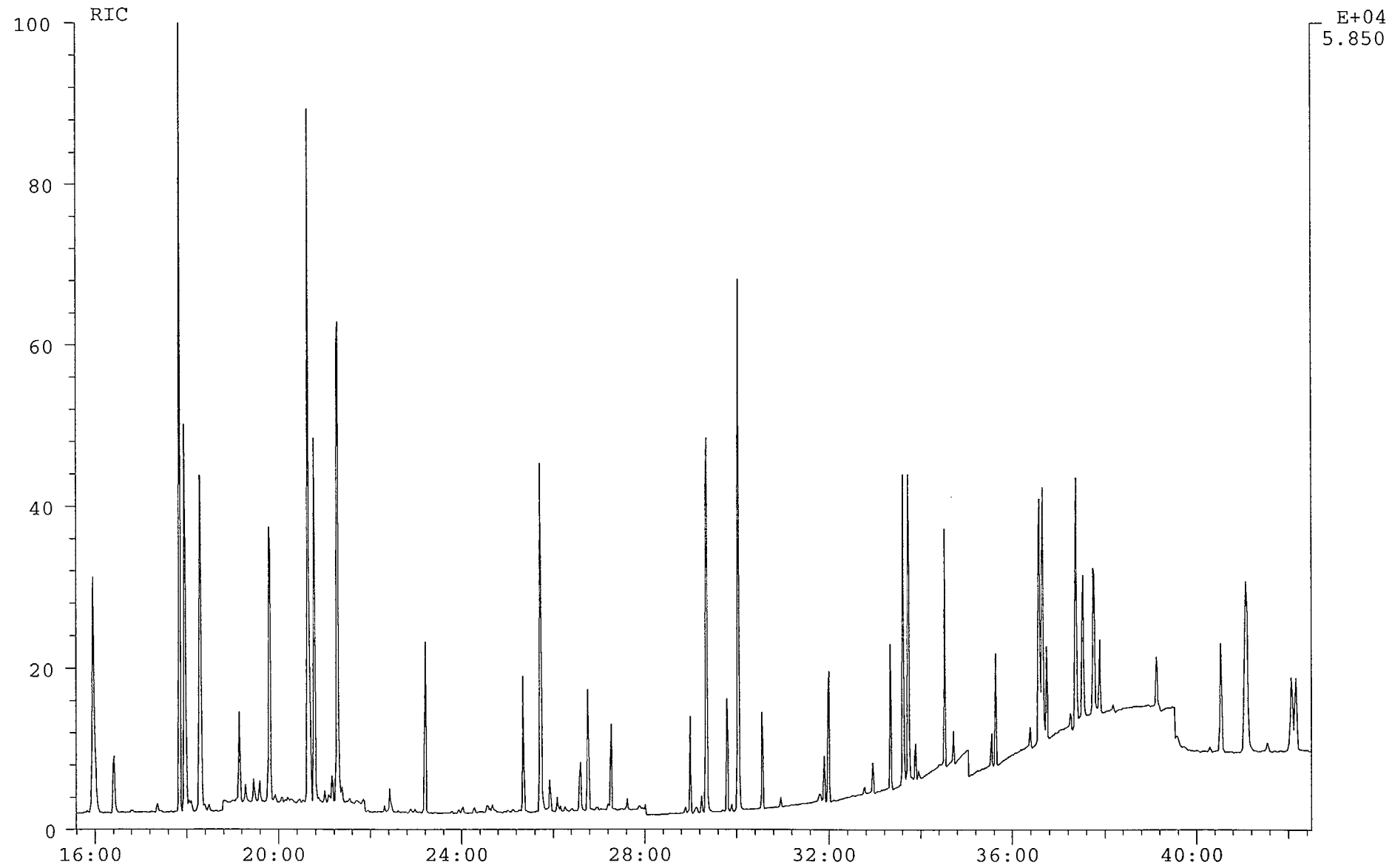
Workorder	H2W5Q1AA	**Prep Batch**	6100060	**Lot No**	H6D100000-060
Data File	/20060428s1/yh2w5qba.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90381	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	04/28/06 15:22	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXSIOYA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
276					**276.0000**		**276.0000**				
	Unidentified	41:05	00:00	0	111		27			ABV	
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	18		7				
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	10		4				
	Indeno(1,2,3-cd)pyrene-	41:05	41:04	1	28513		7197			ABV	
	Benzo(ghi)Perylene-d12	42:03	42:03	0	14587		3873			ABV	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	13		5				
	Dibenz(ah)Anthracene-d1	41:02	41:02	0	15008		4253			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	8		3				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	8		3				

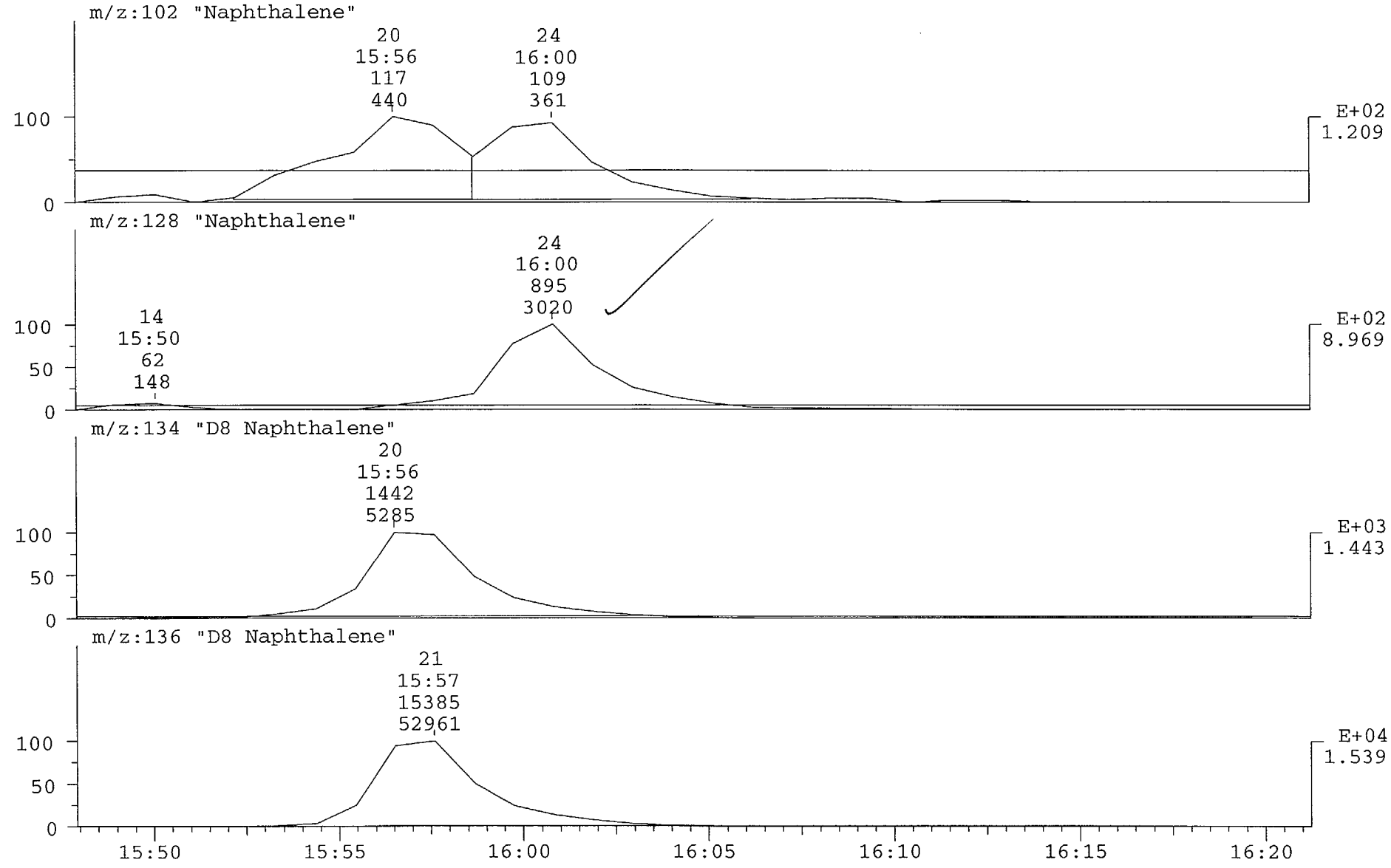
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int/Calc: J 4/28/06
QC Rev VMIC 4/28/06

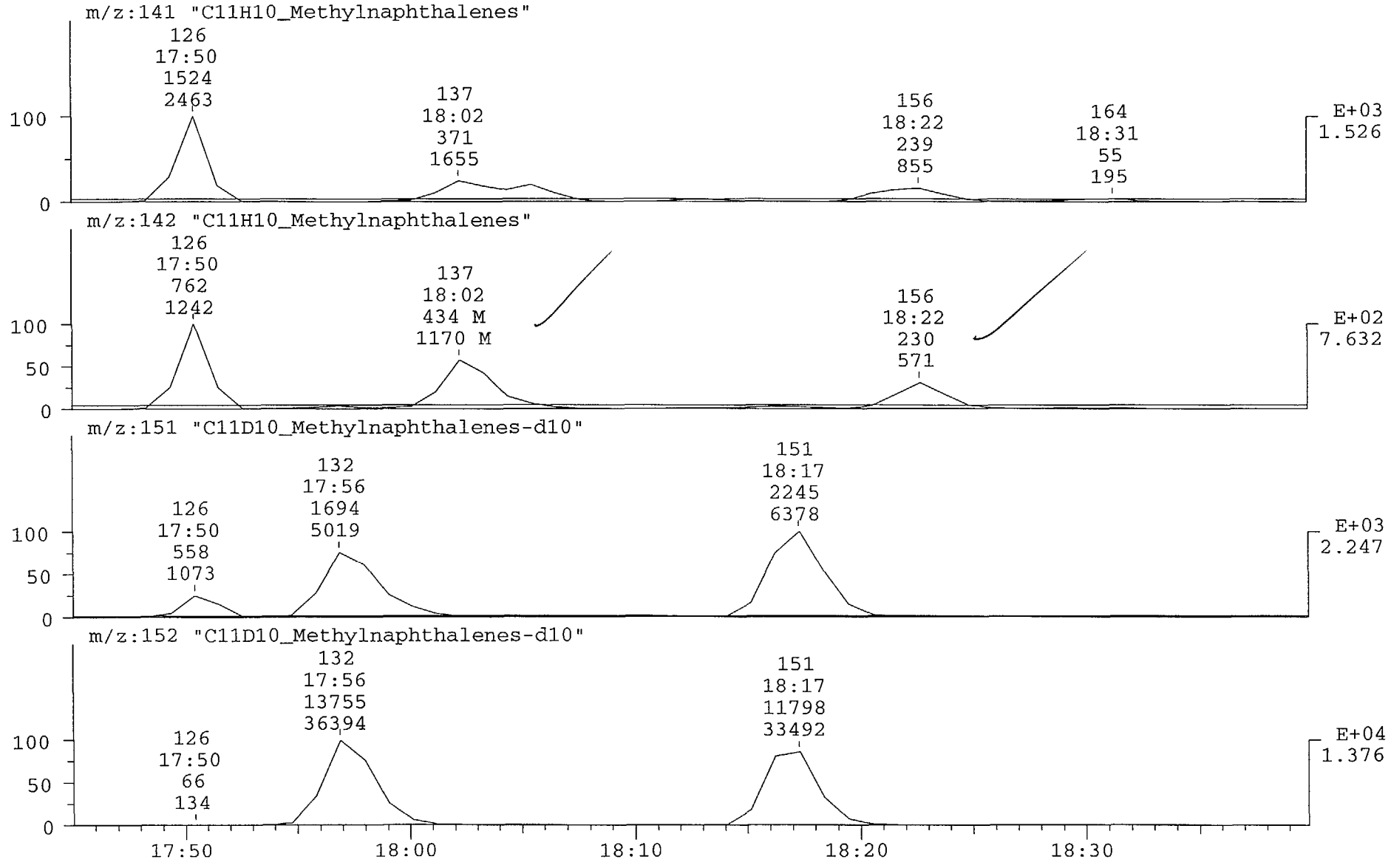
```
CHRO:  yh2w5qba                                28-APR-06   Elapse:   37:48       1170
Samp:  WO=h2w5q1aa Meth=YA1 Dil=1                          Start :   15:22:00    1384
Comm:  Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                    Study :   6100060
Oper:  JMN           Client:  H6D100000-060B               Inlet :
Peak:  100.00  ppm     Label wndw:   1 > 1384              Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3                Label :   0, 3.0
Disp:  Height  Area
```



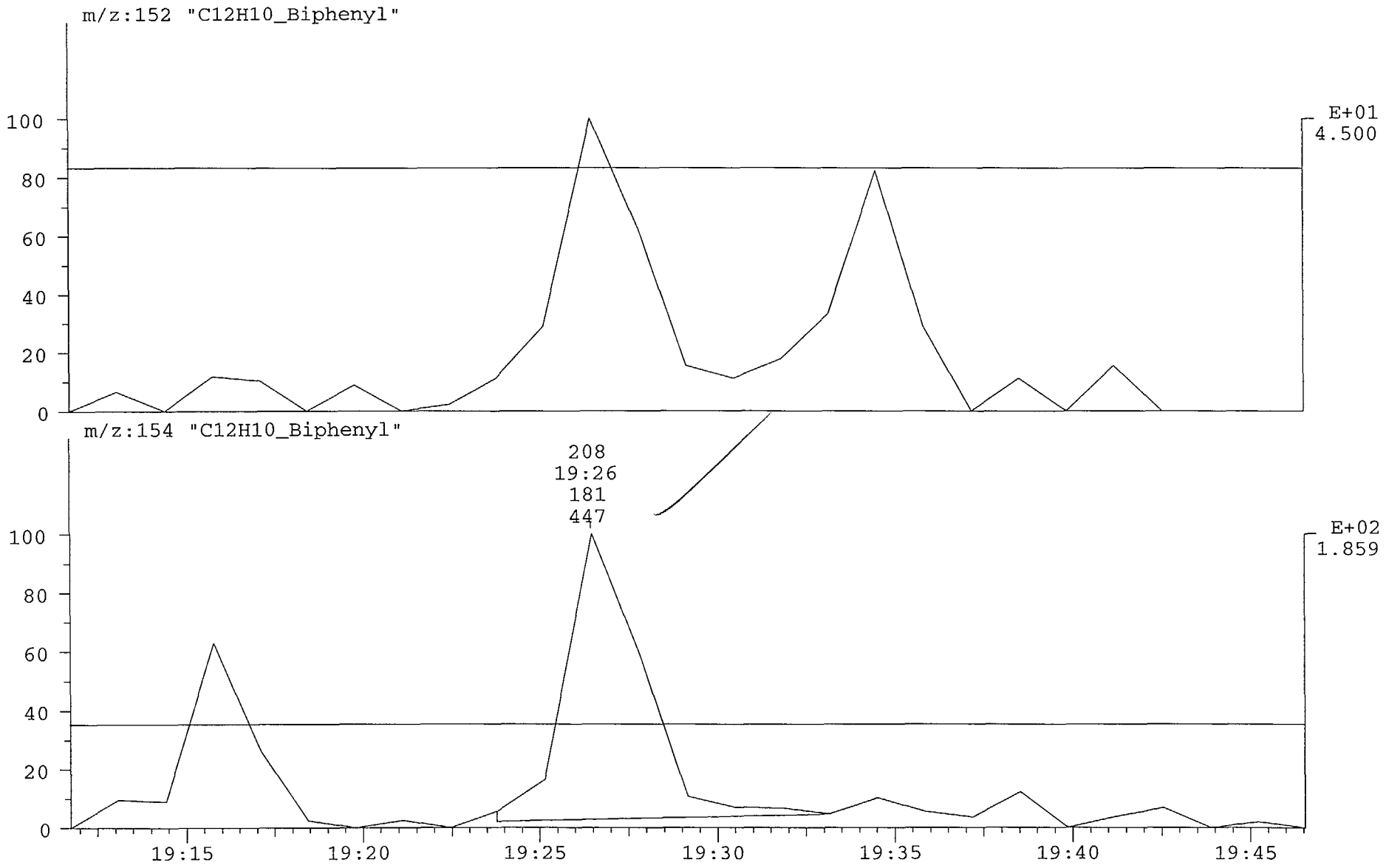
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



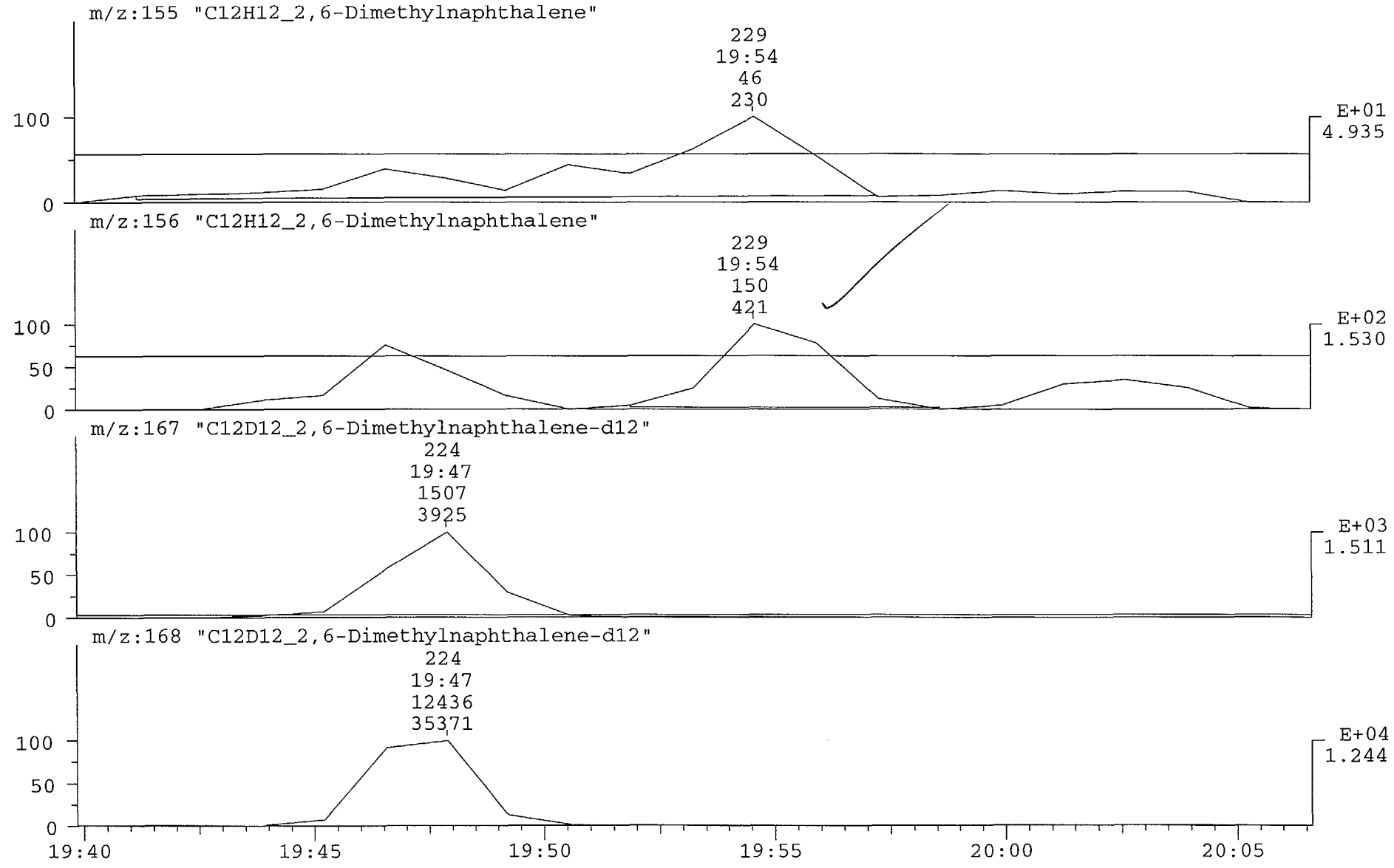
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



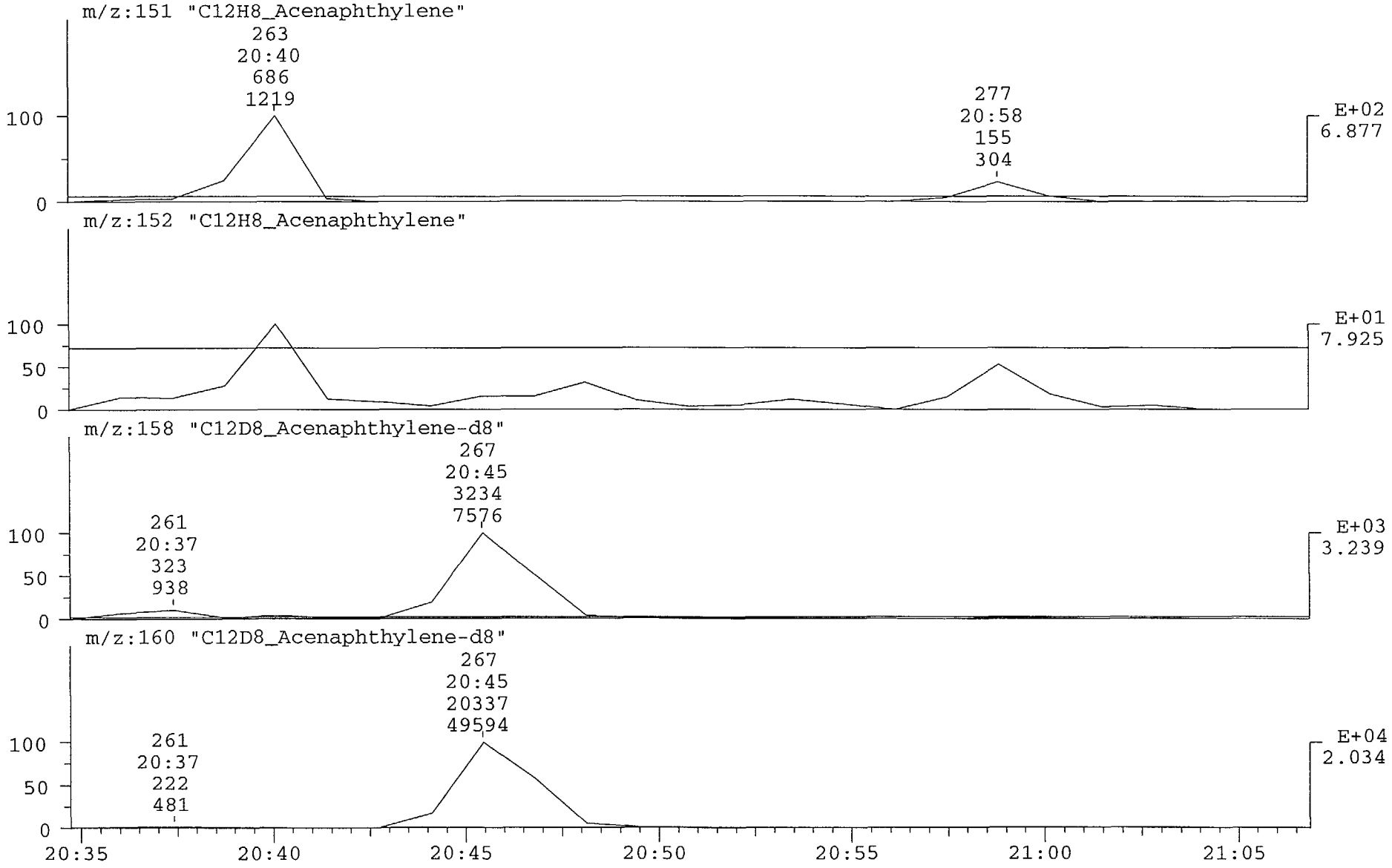
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



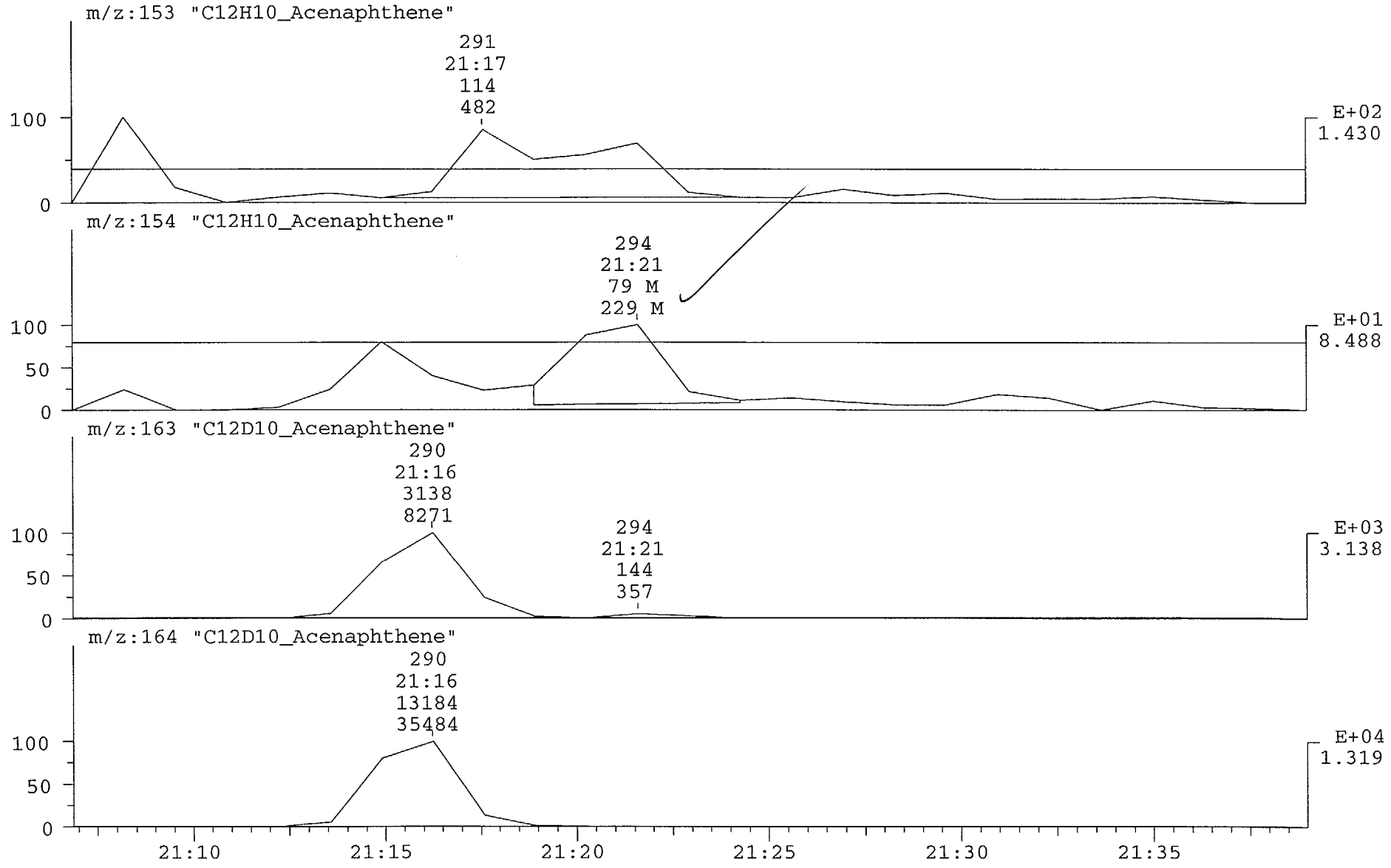
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



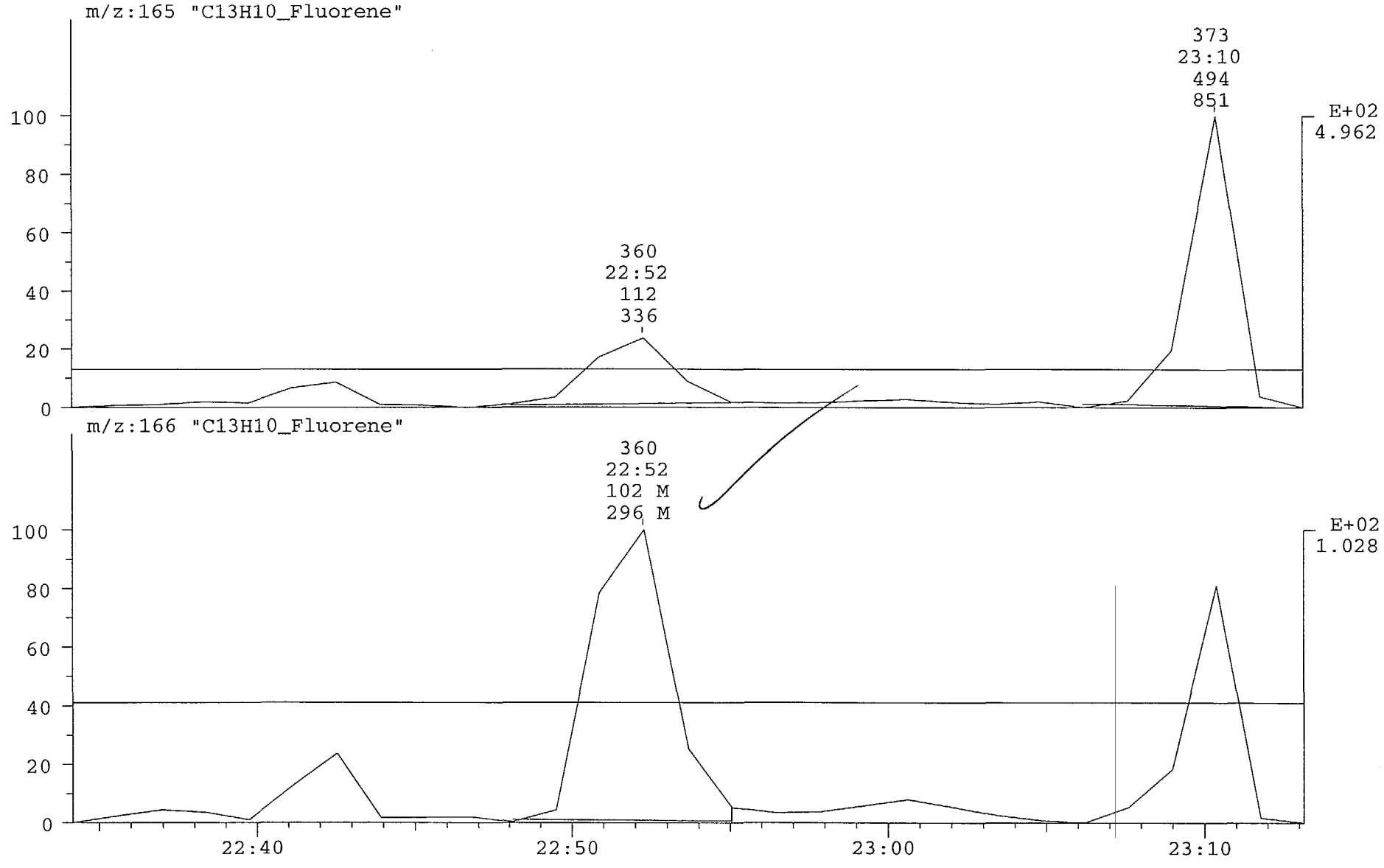
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



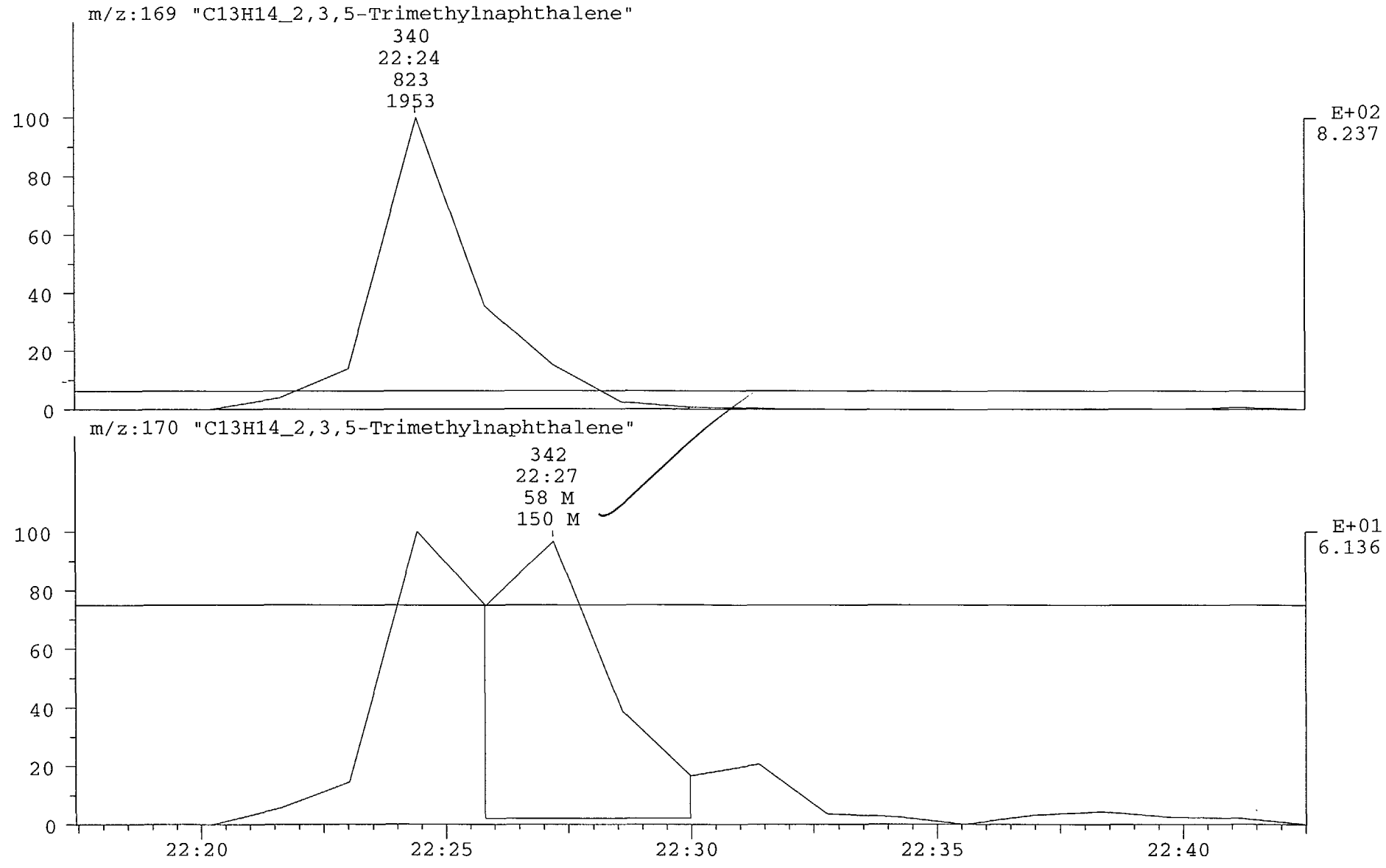
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



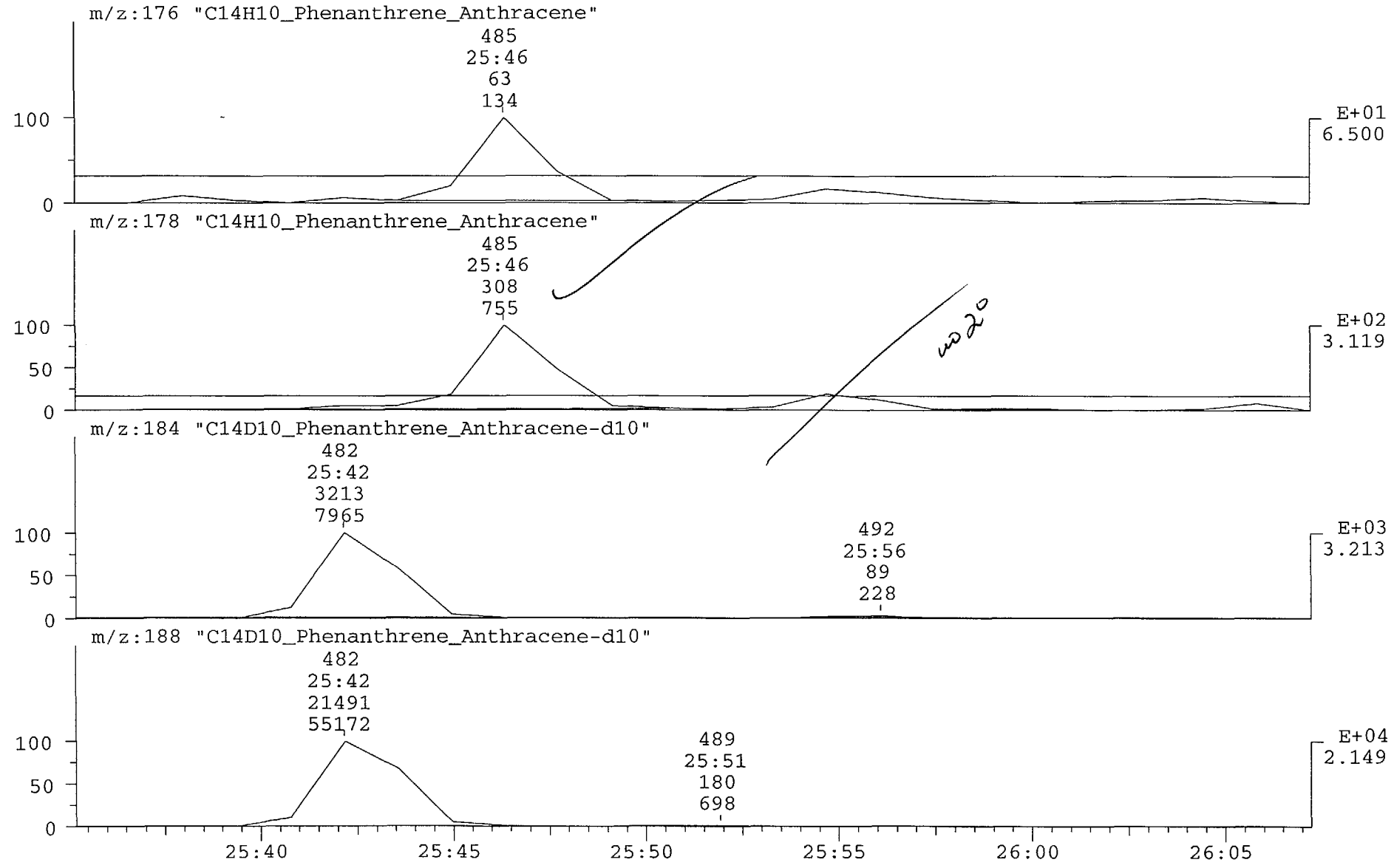
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



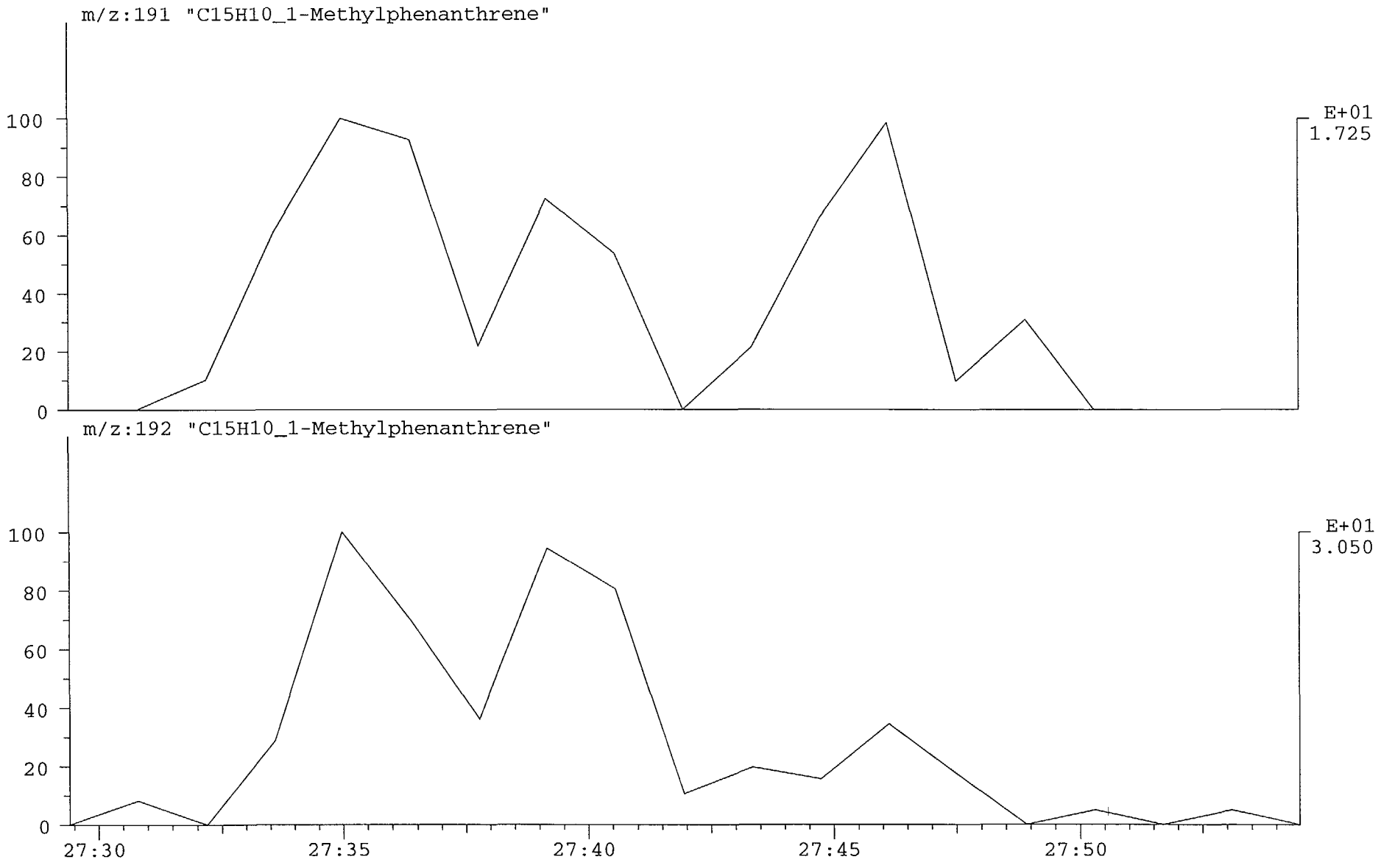
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



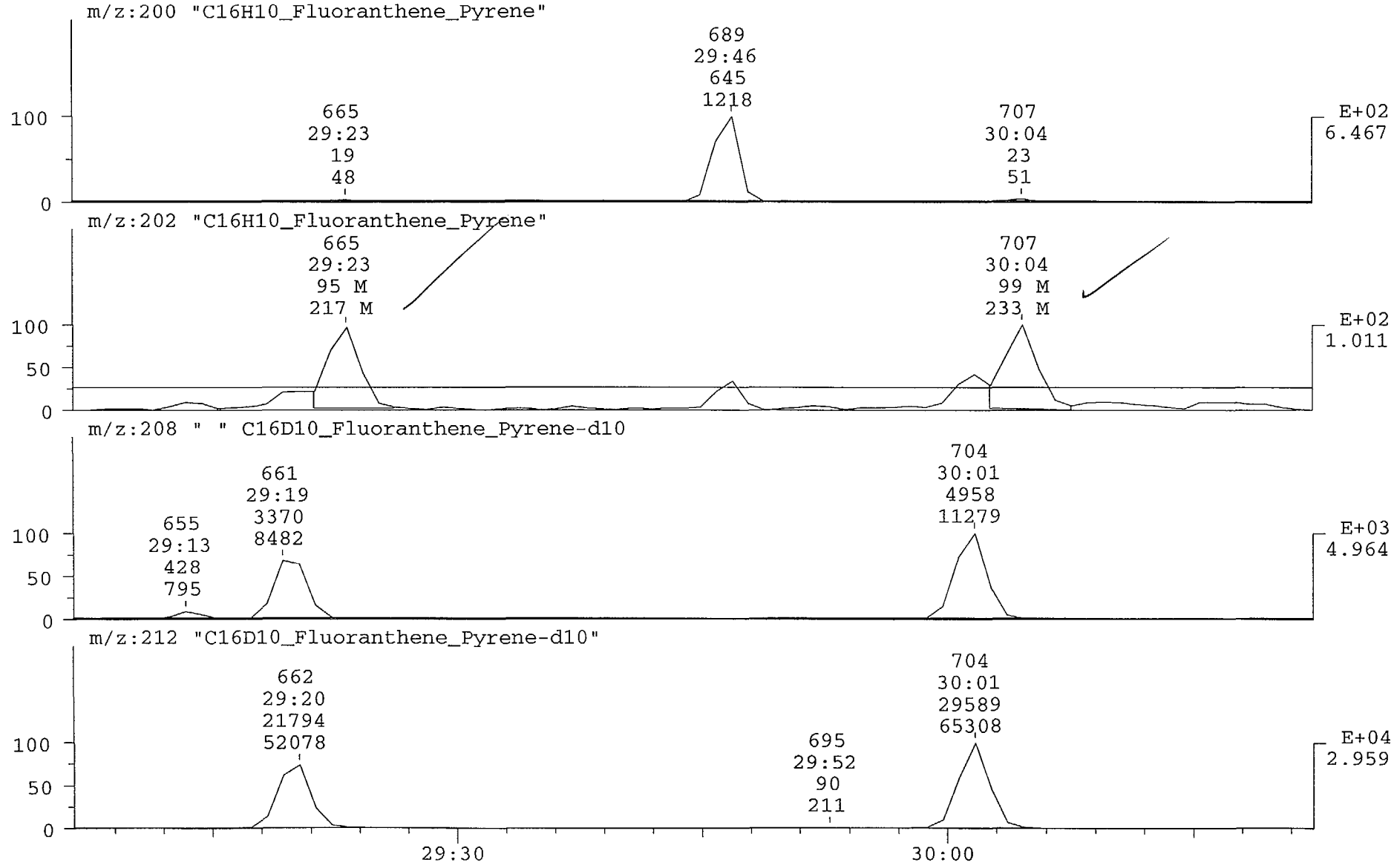
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



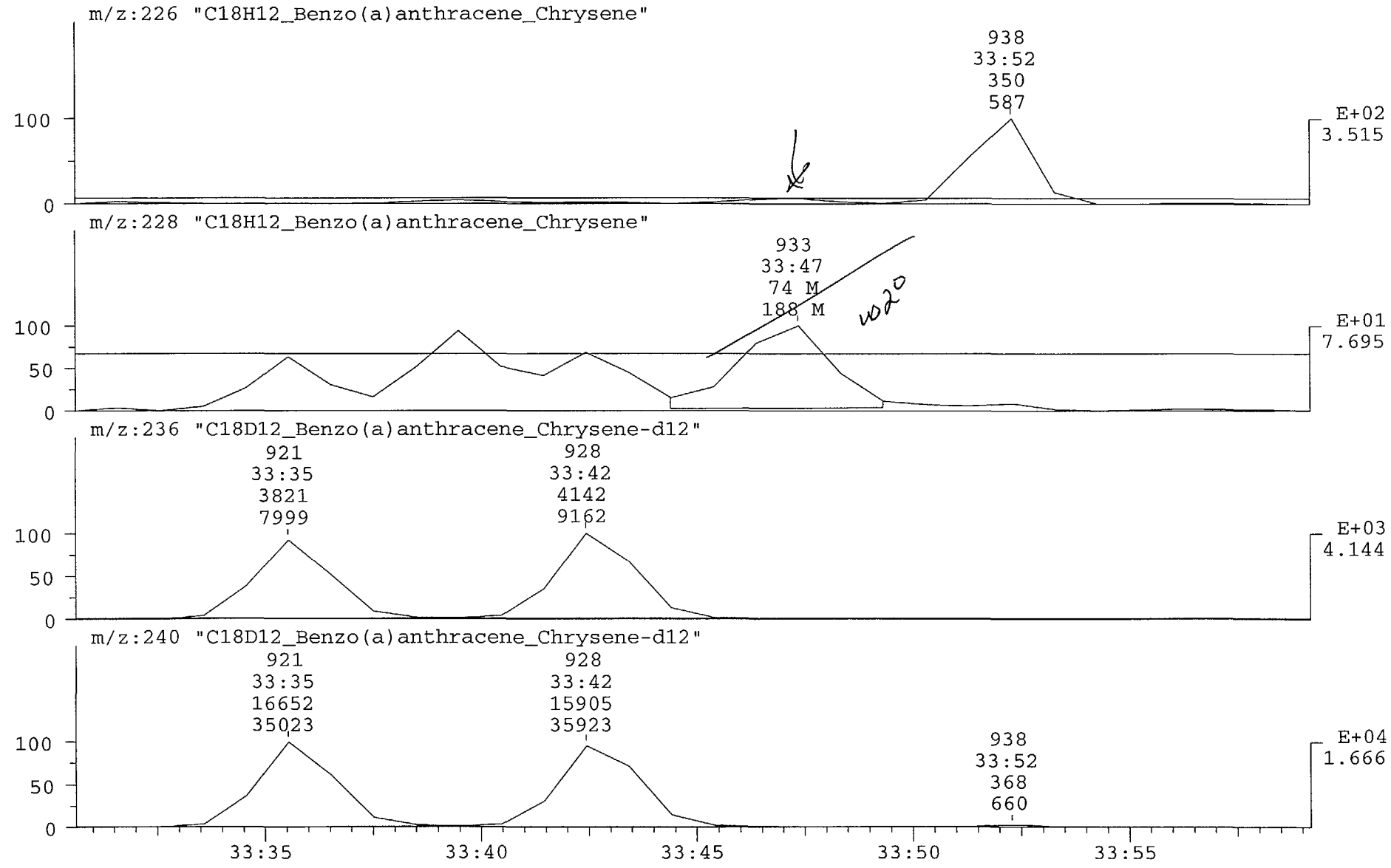
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

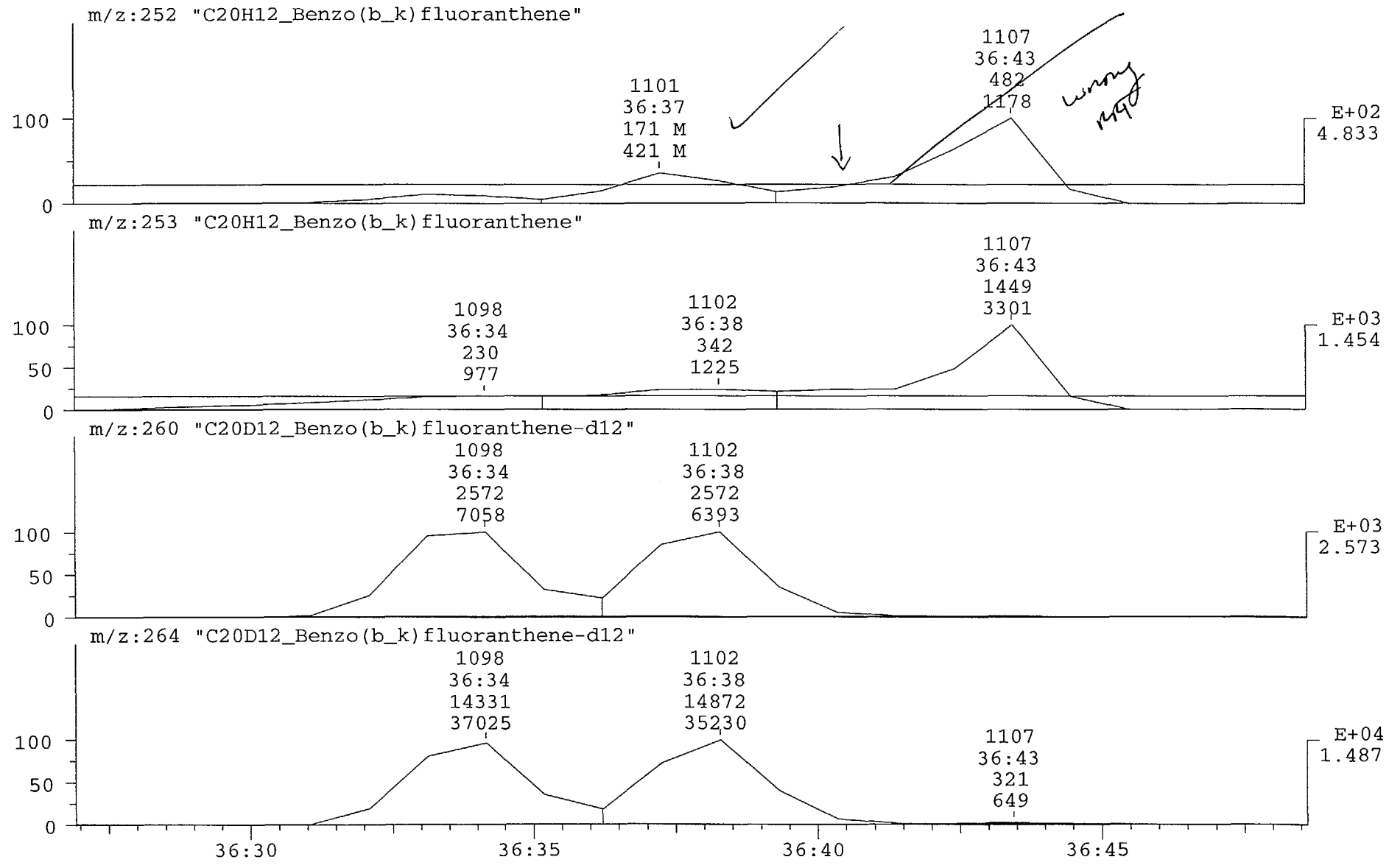


CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



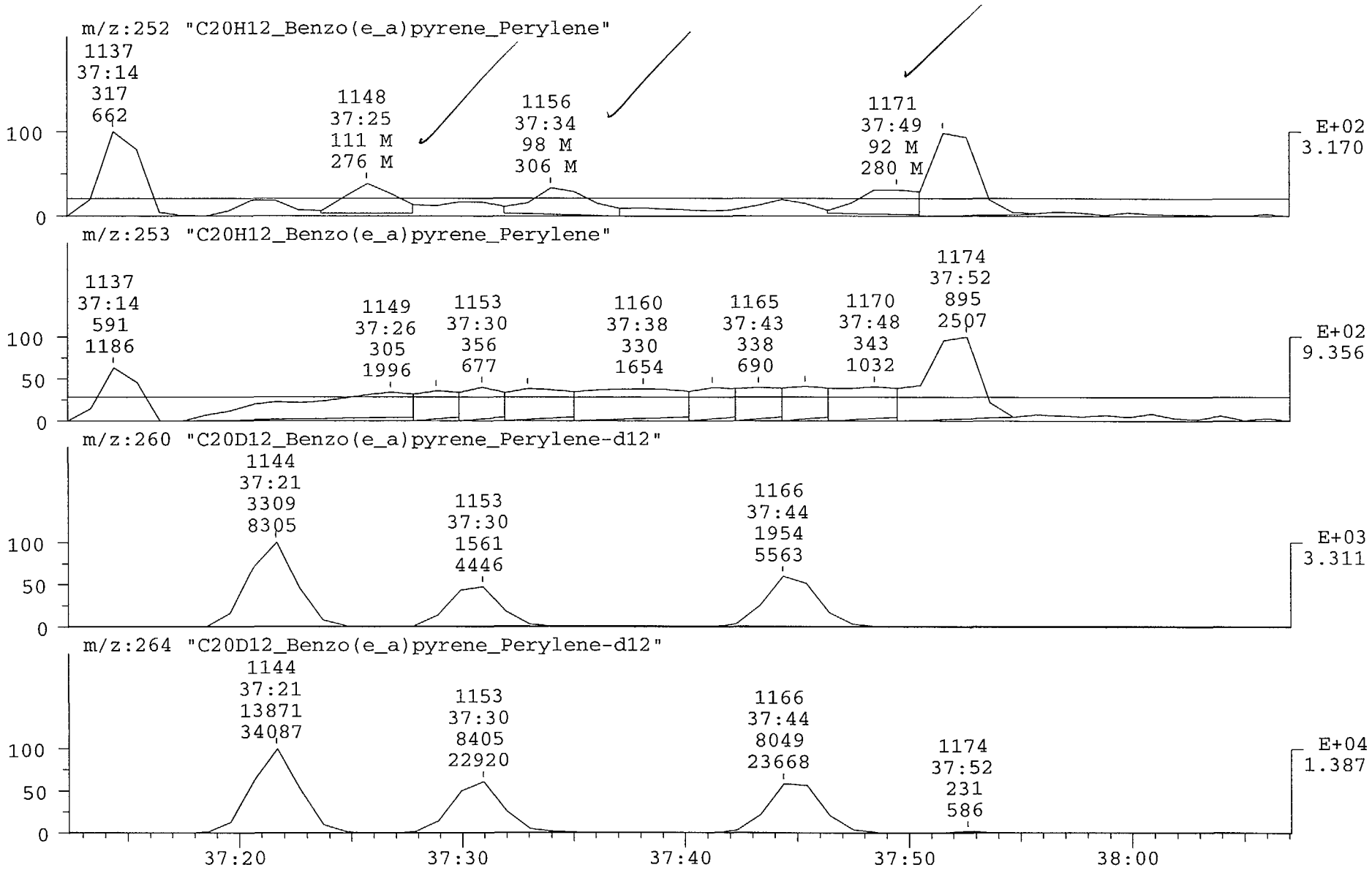
4560

CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

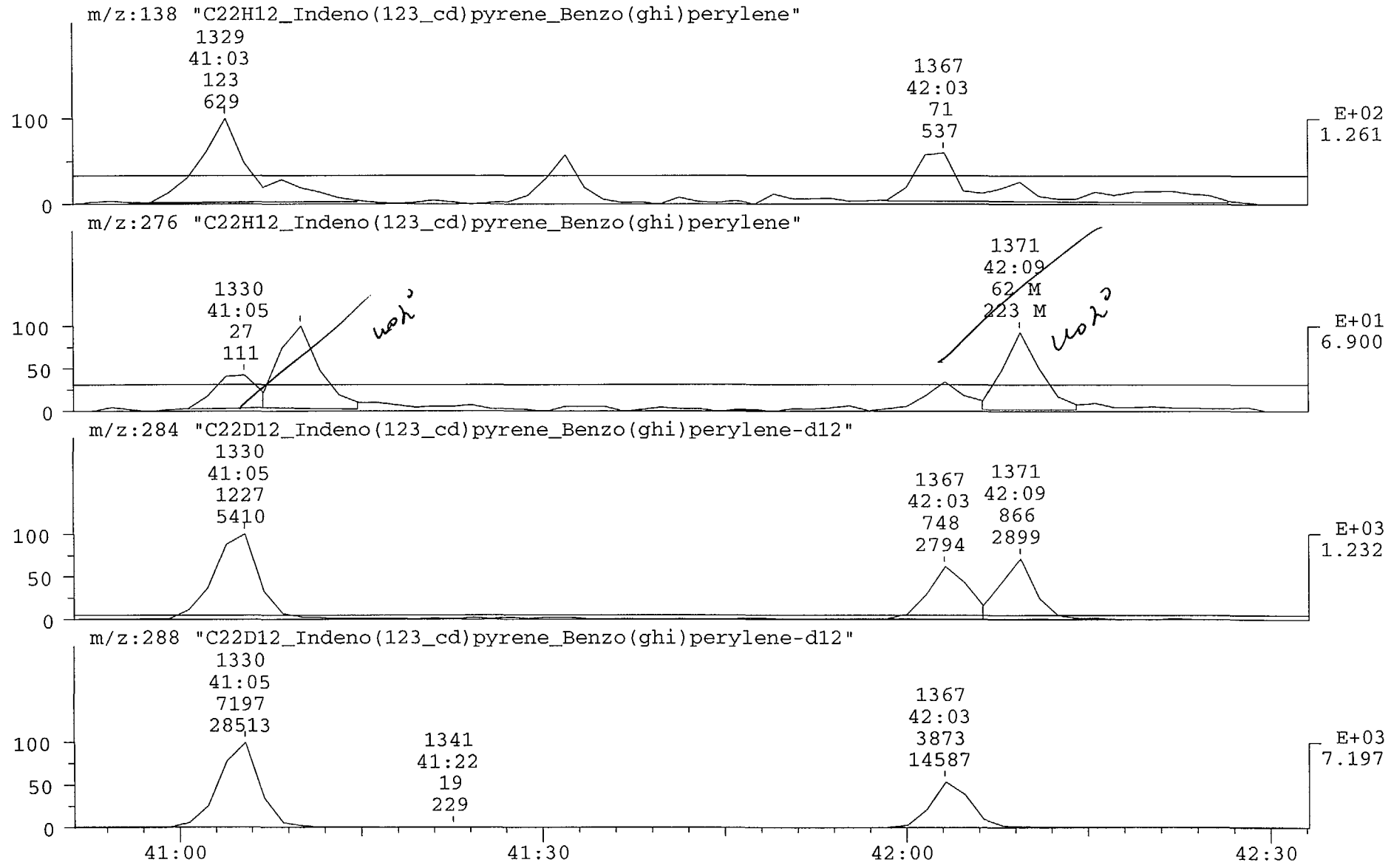


4561

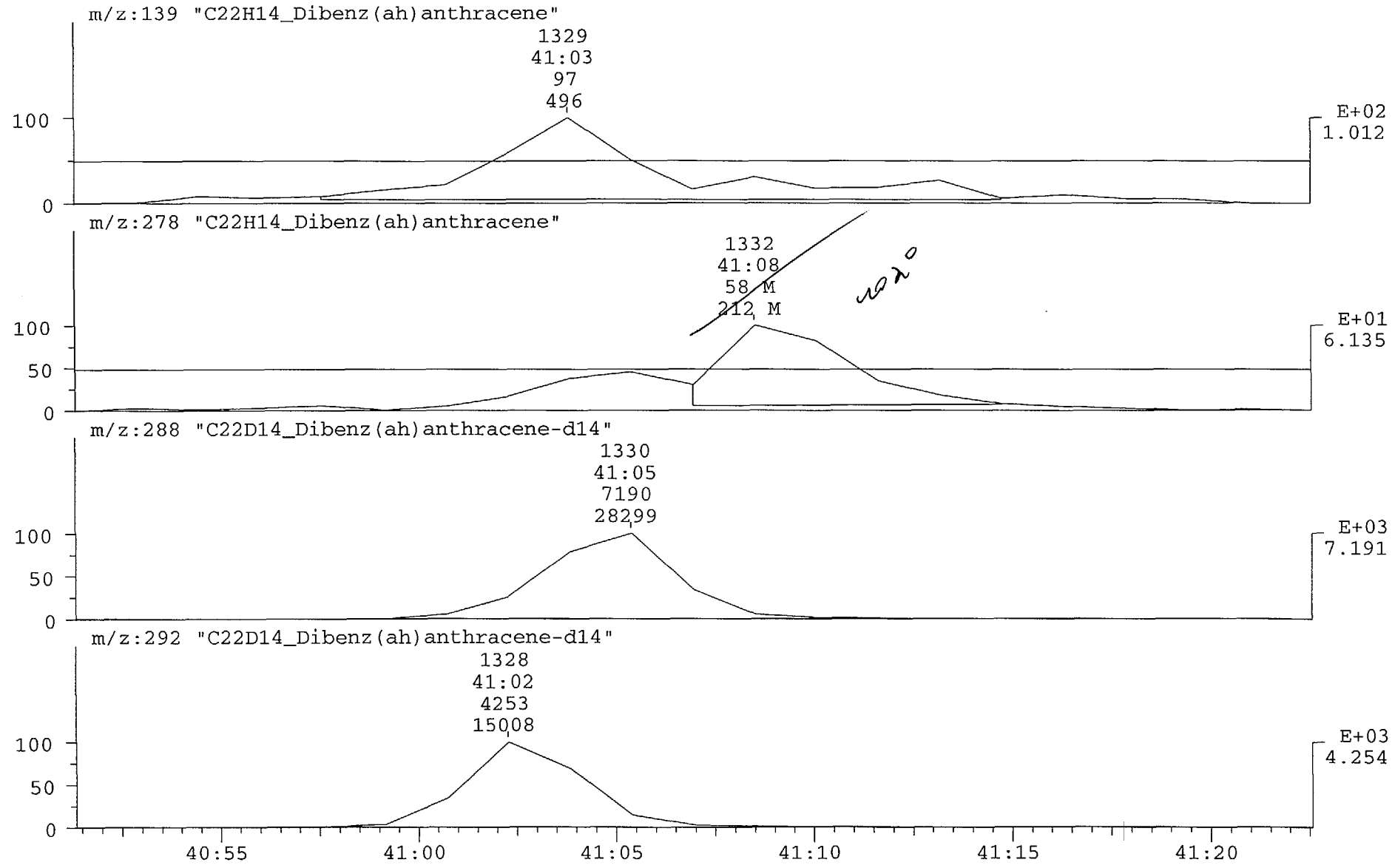
CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w5qba 28-APR-06 Elapse: 49:19 1735
Samp: WO=h2w5q1aa Meth=YA1 Dil=1 Start : 15:22:00 1384
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060B Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2W5QBA.D
Date Acquired: 28 Apr 2006   3:22 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W5Q1AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  3
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Fri Apr 28 19:12:21 2006
d:\cdffiles\YH2W5QBA.CDF Translated at Fri Apr 28 19:12:21 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Fri Apr 28 13:38:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w5qba.dat
NetCDF File (input): /usr/users/hp/data/yh2w5qba.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Fri Apr 28 13:38:03 EDT 2006

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	H6D030241	**Work Order # ...:**	H2W5Q1AC-LCS H2W5Q1AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	H6D100000 - 060				
Prep Date .....:	04/10/06	**Analysis Date ..:**	04/27/06		
Prep Batch # ...:	6100060				
Dilution Factor :	1				
Analyst ID.....:	Jon M. Nordquist	**Instrument ID..:**	H2A	**Method.....:**	KNOX ID-0016
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS
Acenaphthene	**500**	**567**	**ng/sampl**	**113 B**	**(60 - 140)**		
	500	**555**	**ng/sampl**	**111 B**	**(60 - 140)**	**2.0**	**(0 - 25)**
Acenaphthylene	**500**	**496**	**ng/sampl**	**99**	**(60 - 140)**		
	500	**491**	**ng/sampl**	**98**	**(60 - 140)**	**0.93**	**(0 - 25)**
Anthracene	**500**	**475**	**ng/sampl**	**95**	**(60 - 140)**		
	500	**488**	**ng/sampl**	**98**	**(60 - 140)**	**2.7**	**(0 - 25)**
Benzo(a)anthracene	**500**	**510**	**ng/sampl**	**102**	**(60 - 140)**		
	500	**518**	**ng/sampl**	**104**	**(60 - 140)**	**1.4**	**(0 - 25)**
Benzo(b)fluoranthene	**500**	**427**	**ng/sampl**	**85 B**	**(60 - 140)**		
	500	**431**	**ng/sampl**	**86 B**	**(60 - 140)**	**0.91**	**(0 - 25)**
Benzo(k)fluoranthene	**500**	**588**	**ng/sampl**	**118**	**(60 - 140)**		
	500	**590**	**ng/sampl**	**118**	**(60 - 140)**	**0.37**	**(0 - 25)**
Benzo(ghi)perylene	**500**	**712**	**ng/sampl**	**142 a**	**(60 - 140)**		
	500	**732**	**ng/sampl**	**146 a**	**(60 - 140)**	**2.7**	**(0 - 25)**
Benzo(a)pyrene	**500**	**509**	**ng/sampl**	**102 B**	**(60 - 140)**		
	500	**514**	**ng/sampl**	**103 B**	**(60 - 140)**	**0.81**	**(0 - 25)**
Benzo(e)pyrene	**500**	**594**	**ng/sampl**	**119 B**	**(60 - 140)**		
	500	**607**	**ng/sampl**	**121 B**	**(60 - 140)**	**2.2**	**(0 - 25)**
Chrysene	**500**	**526**	**ng/sampl**	**105**	**(60 - 140)**		
	500	**535**	**ng/sampl**	**107**	**(60 - 140)**	**1.5**	**(0 - 25)**
Dibenz(a,h)anthracene	**500**	**504**	**ng/sampl**	**101**	**(60 - 140)**		
	500	**509**	**ng/sampl**	**102**	**(60 - 140)**	**1.2**	**(0 - 25)**
Fluoranthene	**500**	**508**	**ng/sampl**	**102 B**	**(60 - 140)**		
	500	**509**	**ng/sampl**	**102 B**	**(60 - 140)**	**0.18**	**(0 - 25)**
Fluorene	**500**	**490**	**ng/sampl**	**98 B**	**(60 - 140)**		
	500	**499**	**ng/sampl**	**100 B**	**(60 - 140)**	**1.7**	**(0 - 25)**
Indeno(1,2,3-cd)pyrene	**500**	**524**	**ng/sampl**	**105**	**(60 - 140)**		
	500	**535**	**ng/sampl**	**107**	**(60 - 140)**	**2.1**	**(0 - 25)**
2-Methylnaphthalene	**500**	**466**	**ng/sampl**	**93 B**	**(60 - 140)**		
	500	**472**	**ng/sampl**	**94 B**	**(60 - 140)**	**1.2**	**(0 - 25)**
Naphthalene	**500**	**507**	**ng/sampl**	**101 B**	**(60 - 140)**		
	500	**508**	**ng/sampl**	**102 B**	**(60 - 140)**	**0.15**	**(0 - 25)**
Perylene	**500**	**525**	**ng/sampl**	**105 B**	**(60 - 140)**		
	500	**539**	**ng/sampl**	**108 B**	**(60 - 140)**	**2.7**	**(0 - 25)**
Phenanthrene	**500**	**509**	**ng/sampl**	**102 B**	**(60 - 140)**		
	500	**515**	**ng/sampl**	**103 B**	**(60 - 140)**	**1.1**	**(0 - 25)**
Pyrene	**500**	**480**	**ng/sampl**	**96 B**	**(60 - 140)**		
	500	**480**	**ng/sampl**	**96 B**	**(60 - 140)**	**0.0**	**(0 - 25)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	82	(15 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H6D030241 **Work Order # ...:** H2W5Q1AC-LCS H2W5Q1AD-LCSD **Matrix .....:** AIR
LCS Lot-Sample# : H6D100000 - 060

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	86	(15 - 120)
2-Methylnaphthalene-d10	92	(20 - 120)
	93	(20 - 120)
Acenaphthylene-d8	83	(20 - 120)
	85	(20 - 120)
Phenanthrene-d10	101	(30 - 120)
	101	(30 - 120)
Fluoranthene-d10	106	(30 - 120)
	107	(30 - 120)
Benzo(a)anthracene-d12	111	(30 - 120)
	109	(30 - 120)
Chrysene-d12	112	(30 - 120)
	110	(30 - 120)
Benzo(b)fluoranthene-d12	116	(30 - 120)
	116	(30 - 120)
Benzo(k)fluoranthene-d12	105	(30 - 120)
	104	(30 - 120)
Benzo(a)pyrene-d12	92	(30 - 120)
	92	(30 - 120)
Perylene-d12	86	(30 - 120)
	86	(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	114	(30 - 120)
	113	(30 - 120)
Dibenz(ah)anthracene-d14	117	(30 - 120)
	115	(30 - 120)
Benzo(ghi)perylene-d12	77	(30 - 120)
	76	(30 - 120)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AC	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5qc2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90332	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	17:04	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:57	87188	25235	1.623	500.0	411.588923	82.32	411.588923		0.365
Naphthalene	16:00	109037	32987	1.233	500.0	507.293229	101.46	507.293229	B	0.482
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene					500.0			ND		0.000000
2-Methylnaphthalene	18:02	77890	26987	1.270	500.0	466.278258	93.26	466.278258	B	0.355
2-Methylnaphthalene-d10	17:58	65783	22215	1.093	500.0	461.266316	92.25	461.266316		0.250
1-Methylnaphthalene	18:22	75197	29466	1.358	500.0	473.546762	94.71	473.546762	B	0.328
1-Methylnaphthalene-d10	18:17	58474	22429	0.958	500.0	467.917532	93.58	467.917532		0.285
1-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:26	102252	39905	1.552	500.0	500.728533	100.15	500.728533	B	0.725
2,6-Dimethylnaphthalene	19:54	75175	34964	1.240	500.0	492.706695	98.54	492.706695	B	1.23
2,6-Dimethylnaphthalene-d1	19:47	61504	24653	1.009	500.0	467.037794	93.41	467.037794		0.406
C2 Alkylnaphthalenes				1.240		492.706695		492.706695	B	1.20
Acenaphthylene	20:48	108148	47837	1.221	500.0	495.598480	99.12	495.598480		0.186
Acenaphthylene-d8	20:45	89342	32959	1.646	500.0	415.887297	83.18	415.887297		0.249
Acenaphthene-d10	21:16	65240	27438	1.000	500.0	500.000000	100.00	500.000000		0.319
Acenaphthene	21:21	74915	29808	0.740	500.0	566.924862	113.38	566.924862	B	1.03
2,3,5-Trimethylnaphthalene	22:28	69300	27750	1.140	500.0	494.268485	98.85	494.268485	B	0.400
C3 Alkylnaphthalenes				1.140		494.268485		494.268485		0.391
Fluorene d-10				0.805				ND		0.216
Fluorene-C13				0.752				ND		0.231
Fluorene	22:52	90614	36033	0.892	500.0	490.471327	98.09	490.471327	B	0.429
Phenanthrene-d10	25:42	103566	35960	0.793	500.0	503.901616	100.78	503.901616		0.165
Phenanthrene	25:46	127622	52763	1.210	500.0	509.142701	101.83	509.142701	B	0.488
Anthracene-d10								ND		0.000000
Anthracene	25:54	104853	49108	1.065	500.0	475.480171	95.10	475.480171		0.555
1-Methylphenanthrene	27:40	93148	32842	0.871	500.0	516.467879	103.29	516.467879		0.439
Fluoranthene-d10	29:20	105018	48216	0.761	500.0	531.985519	106.40	531.985519		0.286
Fluoranthene	29:23	138564	65616	1.298	500.0	508.211139	101.64	508.211139	B	0.160
Pyrene-d10	30:01	129623	57433	1.000	500.0	500.000000	100.00	500.000000		0.218
Pyrene	30:04	133017	59736	1.319	500.0	480.177420	96.04	480.177420	B	0.157
Terphenyl-d14				0.762				ND		0.136
Benzo(a)Anthracene-d12	33:35	74208	30797	0.514	500.0	556.797227	111.36	556.797227		0.381
Benzo(a)anthracene	33:39	104917	48406	1.385	500.0	510.497485	102.10	510.497485	B	0.176
Chrysene-d12	33:43	75175	32131	0.516	500.0	561.940038	112.39	561.940038		0.380
Chrysene	33:47	105519	50105	1.333	500.0	526.345621	105.27	526.345621	B	0.175
Benzo(b)Fluoranthene-d12	36:34	75569	33185	0.895	500.0	577.819447	115.56	577.819447		0.554
Benzo(k)Fluoranthene-d12	36:38	78985	32503	1.030	500.0	524.439172	104.89	524.439172		0.481
Benzo(b)fluoranthene	36:38	93256	38563	1.446	500.0	426.853238	85.37	426.853238	B	0.521
Benzo(k)fluoranthene	36:41	101607	41056	1.093	500.0	588.226429	117.65	588.226429	B	0.703
Benzo(e)pyrene-d12	37:21	73096	27746	1.000	500.0	500.000000	100.00	500.000000		0.496
Benzo(e)pyrene	37:25	93046	33642	1.495	500.0	594.094930	118.82	594.094930	B	0.818
Benzo(a)Pyrene-d12	37:31	52372	20431	0.776	500.0	461.631006	92.33	461.631006		0.639
Benzo(a)pyrene	37:35	68618	25449	1.286	500.0	509.491822	101.90	509.491822	B	0.952
Perylene-d12	37:45	58652	21873	0.936	500.0	428.523659	85.70	428.523659		0.529
Perylene	37:49	70143	25783	1.140	500.0	524.553116	104.91	524.553116	B	1.00
3-Methylcholanthrene					500.0			ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AC	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5qc2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90332	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	17:04	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:03	34227	8723	0.402	500.0	582.842034	116.57	582.842034		0.785
Indeno(1,2,3-cd)pyrene-d12	41:05	64445	16971	0.772	500.0	570.941589	114.19	570.941589		0.467
Indeno(1,2,3-cd)pyrene	41:10	85074	23693	1.259	500.0	524.194219	104.84	524.194219	B	0.409
Dibenz(a,h)anthracene	41:10	67586	19638	1.961	500.0	503.588006	100.72	503.588006	B	0.585
Benzo(ghi)Perylene-d12	42:04	31483	7792	0.561	500.0	383.944834	76.79	383.944834		0.643
Benzo(ghi)perylene	42:09	73477	17969	1.639	500.0	711.901099	142.38	711.901099	B	0.685
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene					500.0			ND		0.000000

4/28/06 x3

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IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AC	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5qc2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90332	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/27/06 17:04	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	30		12				
	Naphthalene	16:00	16:00	0	109037		32987			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	33		13				
	Naphthalene-d8	15:57	15:57	0	87188		25235			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene	18:02	18:03	-1	77890		26987			AVV	M
	1-Methylnaphthalene	18:22	18:22	0	75197		29466			AVB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	17:58	0	65783		22215			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	58474		22429			AVV	
	Acenaphthylene	20:48	20:48	0	108148		47837			ABB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	50		20				
	Biphenyl	19:26	19:26	0	102252		39905			ABB	M
	Acenaphthene	21:21	21:21	0	74915		29808			ABB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	75		30				
	2,6-Dimethylnaphthalene	19:54	19:54	0	75175		34964			ABB	M
160					160.0000		160.0000				
	Noise	00:00	00:00	0	23		9				
	Acenaphthylene-d8	20:45	20:46	-1	89342		32959			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	18		7				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	18		7				
	Acenaphthene-d10	21:16	21:16	0	65240		27438			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	28		11				
	Fluorene	22:52	22:52	0	90614		36033			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	23		9				
	2,6-Dimethylnaphthalene	19:47	19:47	0	61504		24653			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	33		13				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	23		9				
	2,3,5-Trimethylnaphthal	22:28	22:28	0	69300		27750			ABB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	13		5				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AC	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5qc2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90332	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/27/06 17:04	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	13		5				
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	43		17				
	Phenanthrene	25:46	25:47	-1	127622 ✓		52763			ABV	M
	Anthracene	25:54	25:54	0	104853 ✓		49108			AVB	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene-d10	25:42	25:43	-1	103566 ✓		35960			ABV	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	28		11				
	1-Methylphenanthrene	27:40	27:40	0	93148 ✓		32842			ABB	
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene	29:23	29:23	0	138564 ✓		65616			ABV	M
	Pyrene	30:04	30:05	-1	133017 ✓		59736			ABV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	25		10				
	Fluoranthene-d10	29:20	29:20	0	105018 ✓		48216			AVV	
	Pyrene-d10	30:01	30:01	0	129623 ✓		57433			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)anthracene	33:39	33:39	0	104917 ✓		48406			ABV	M
	Chrysene	33:47	33:47	0	105519 ✓		50105			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)Anthracene-d12	33:35	33:36	-1	74208 ✓		30797			ABV	
	Chrysene-d12	33:43	33:43	0	75175 ✓		32131			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	10		4				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	50		20				
	Benzo(b)fluoranthene	36:38	36:38	0	93256 ✓		38563			ABV	M
	Benzo(k)fluoranthene	36:41	36:41	0	101607 ✓		41056			AVB	M
	Benzo(e)pyrene	37:25	37:26	-1	93046 ✓		33642			ABV	M
	Benzo(a)pyrene	37:35	37:35	0	68618 ✓		25449			AVV	M
	Perylene	37:49	37:49	0	70143 ✓		25783			AVB	M
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	28		11				
	Benzo(b)Fluoranthene-d1	36:34	36:34	0	75569 ✓		33185			ABV	
	Benzo(k)Fluoranthene-d1	36:38	36:38	0	78985 ✓		32503			AVB	
	Benzo(e)pyrene-d12	37:21	37:22	-1	73096 ✓		27746			ABV	
	Benzo(a)Pyrene-d12	37:31	37:31	0	52372 ✓		20431			AVV	
	Perylene-d12	37:45	37:45	0	58652 ✓		21873			AVV	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

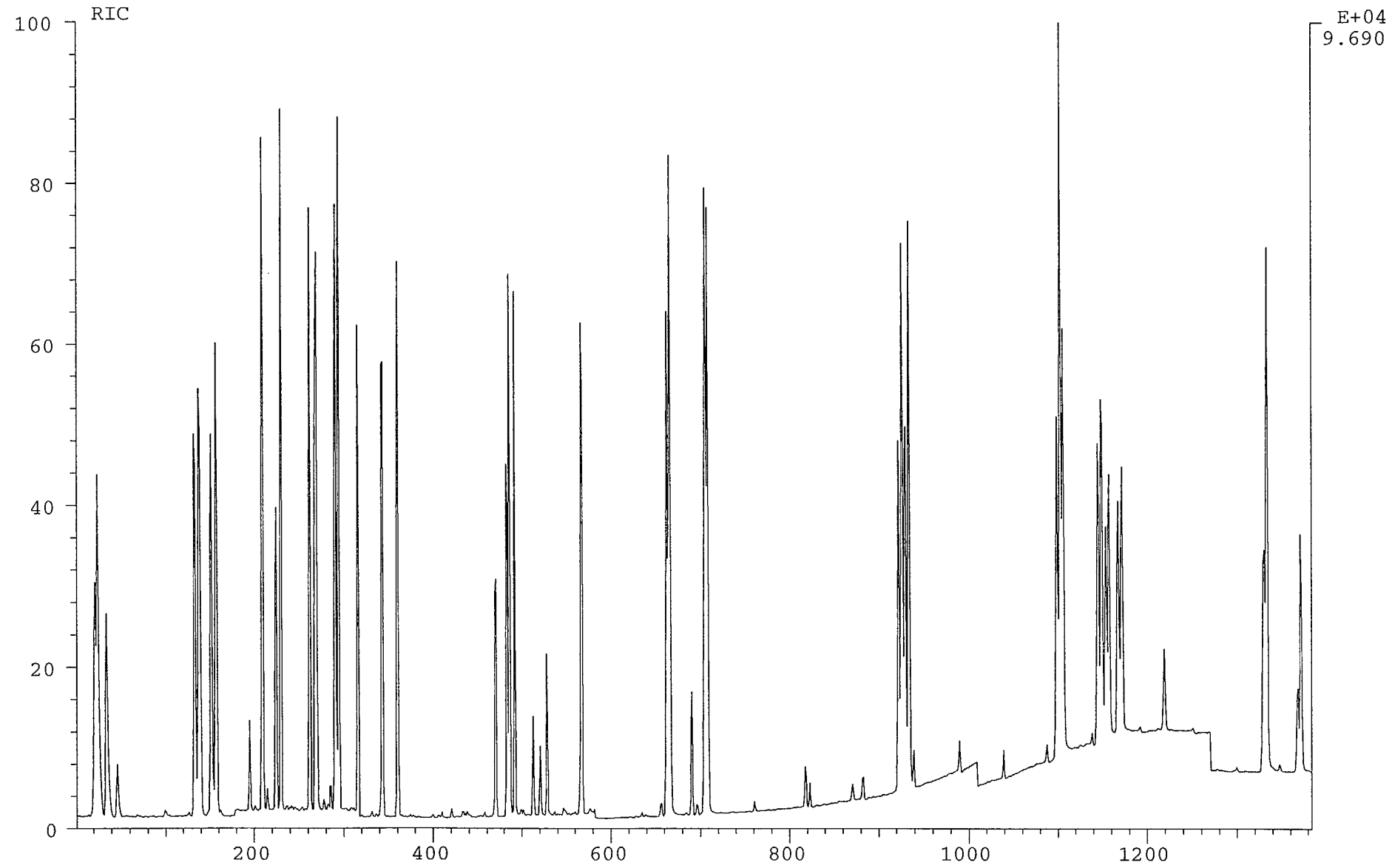
Workorder	H2W5Q1AC	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5qc2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90332	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/27/06 17:04	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
268					268.0000		268.0000				
	Noise	00:00	00:00	0	50		20				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene	41:10	41:10	0	85074 ✓		23693			ABV	M
	Benzo(ghi)perylene	42:09	42:11	-2	73477 ✓		17969			ABB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(a,h)anthracene	41:10	41:10	0	67586 ✓		19638			ABB	M
288					288.0000		288.0000				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene-	41:05	41:05	0	64445 ✓		16971			ABV	
	Benzo(ghi)Perylene-d12	42:04	42:04	0	31483 ✓		7792			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	18		7				
	Dibenz(ah)Anthracene-d1	41:03	41:03	0	34227 ✓		8723			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	5		2				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	8		3				

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

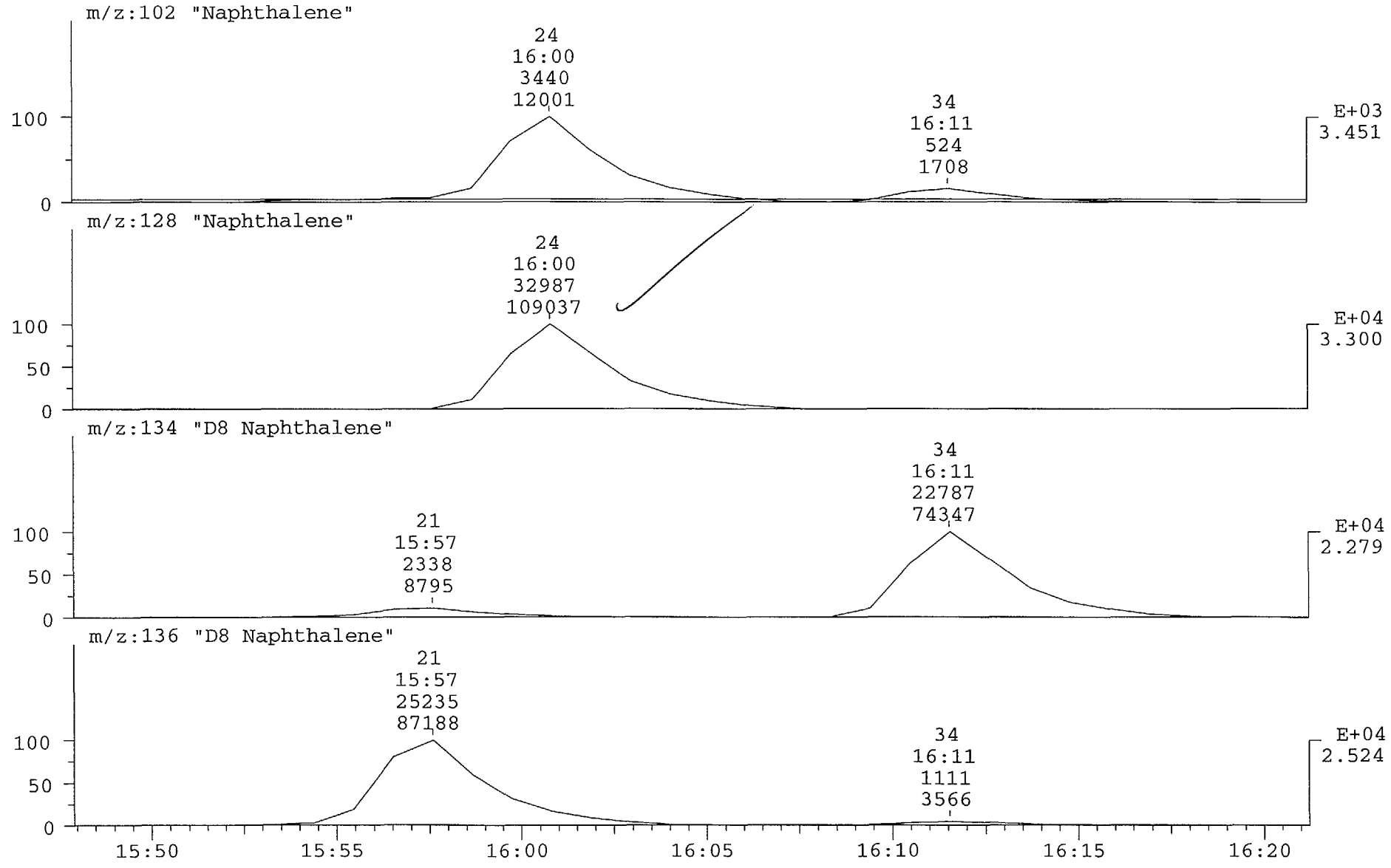
```
CHRO:  yh2w5qc2                                  27-APR-06   Elapse:  34:53      1000
Samp:  WO=h2w5q1ac Meth=YA1 Dil=1                            Start :  17:04:00   1384
Comm:  Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                      Study :  6100060
Oper:  JMN           Client:  H6D100000-060C                 Inlet :
Peak:  100.00  ppm     Label wndw:   1 > 1384                Masses:  0 > 308
Area:  5, 0.50, 0      Baseline  :   100, 3                  Label :  0, 0.0
Disp:  Height  Area
```

Int / Calc: J 4/28/06
QC / Rev VMK 4/28/06

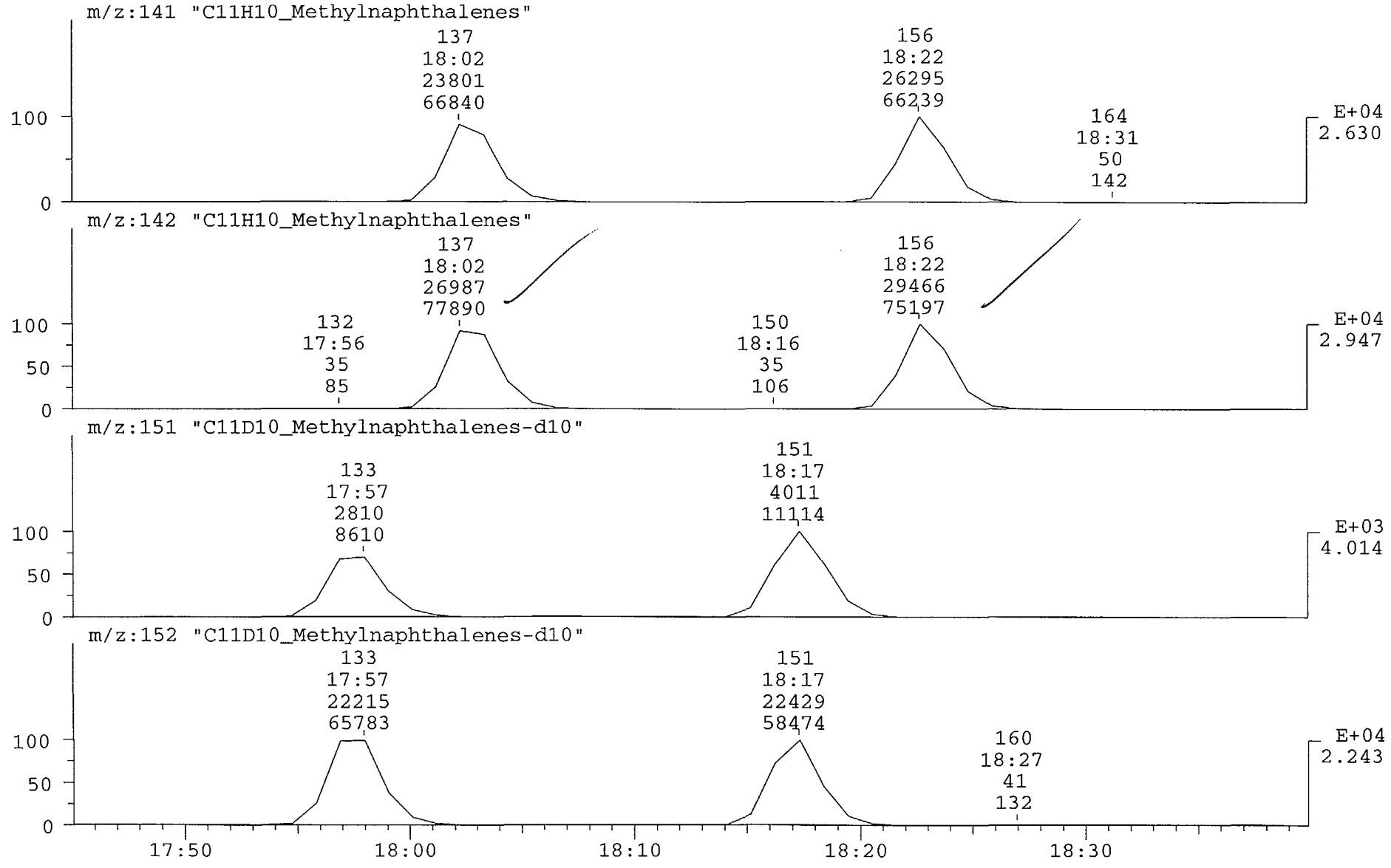


4573

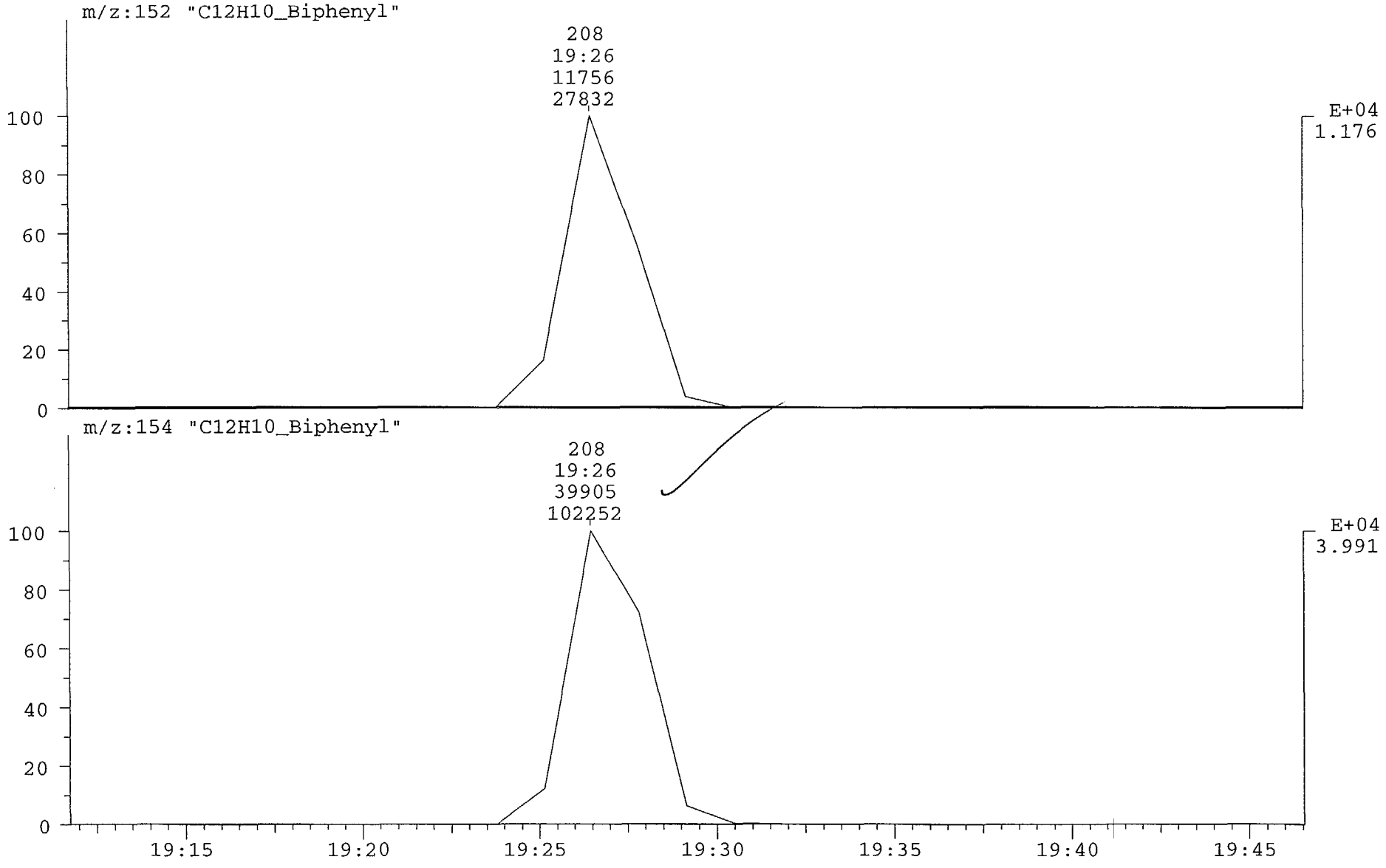
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



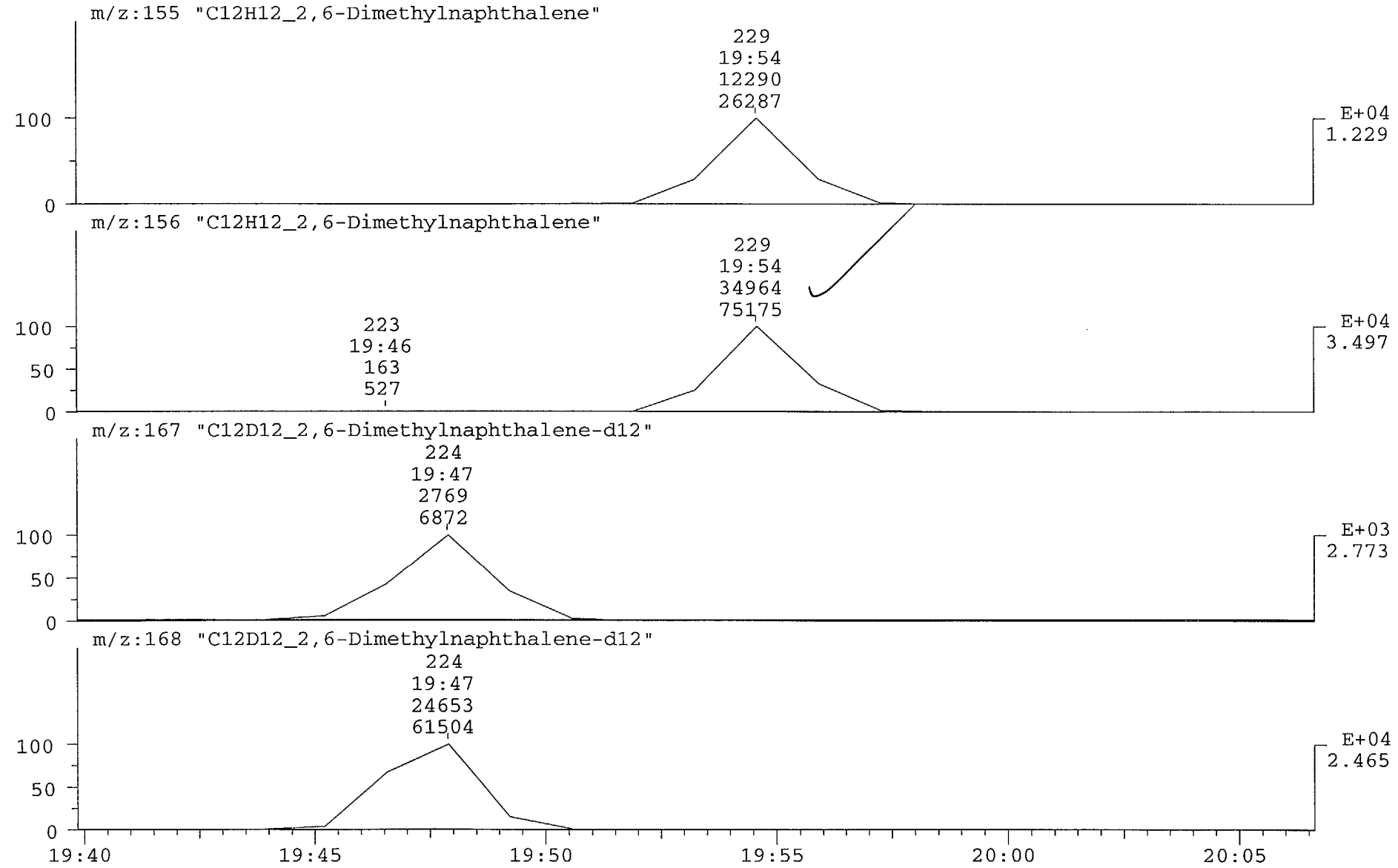
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



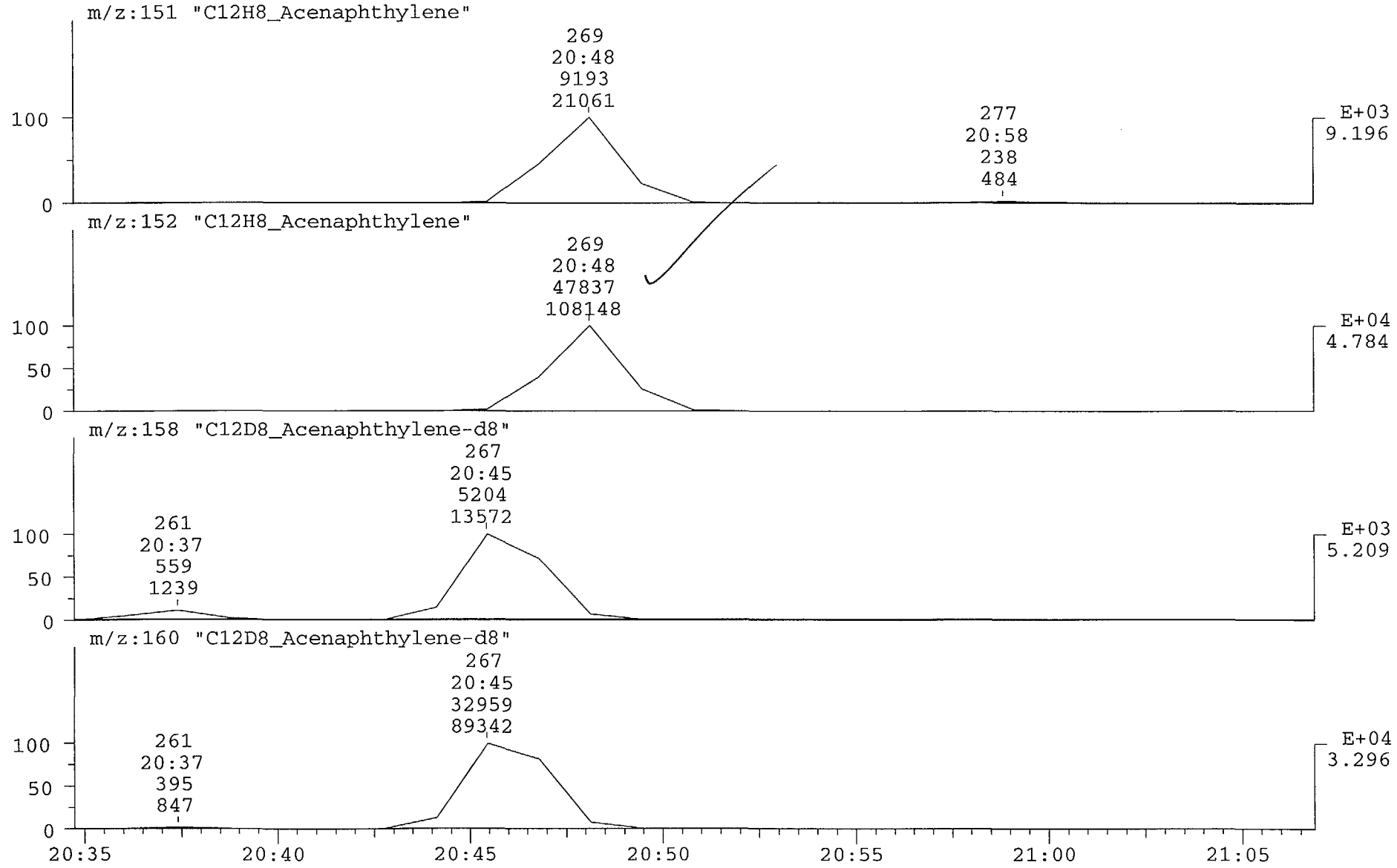
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



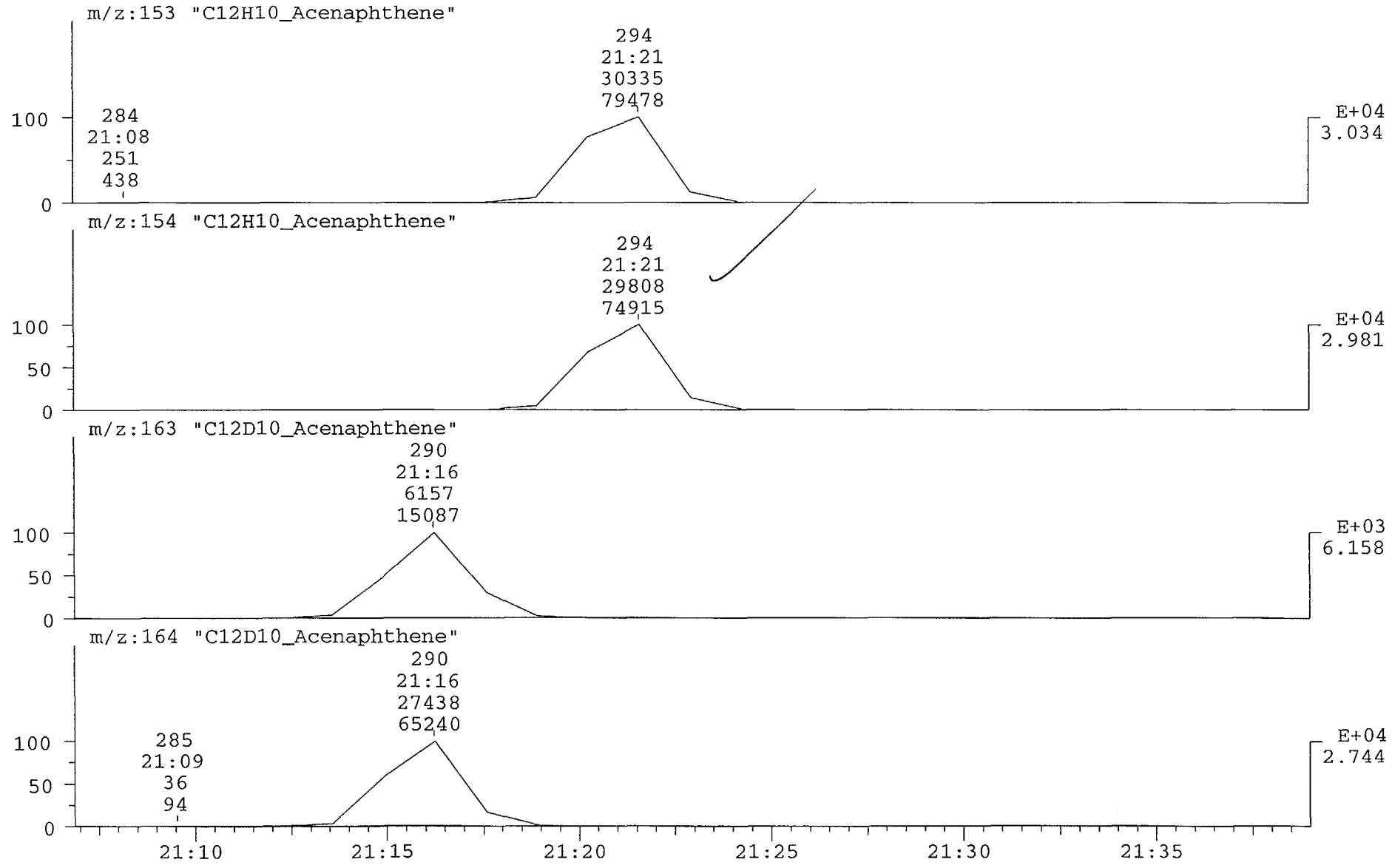
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



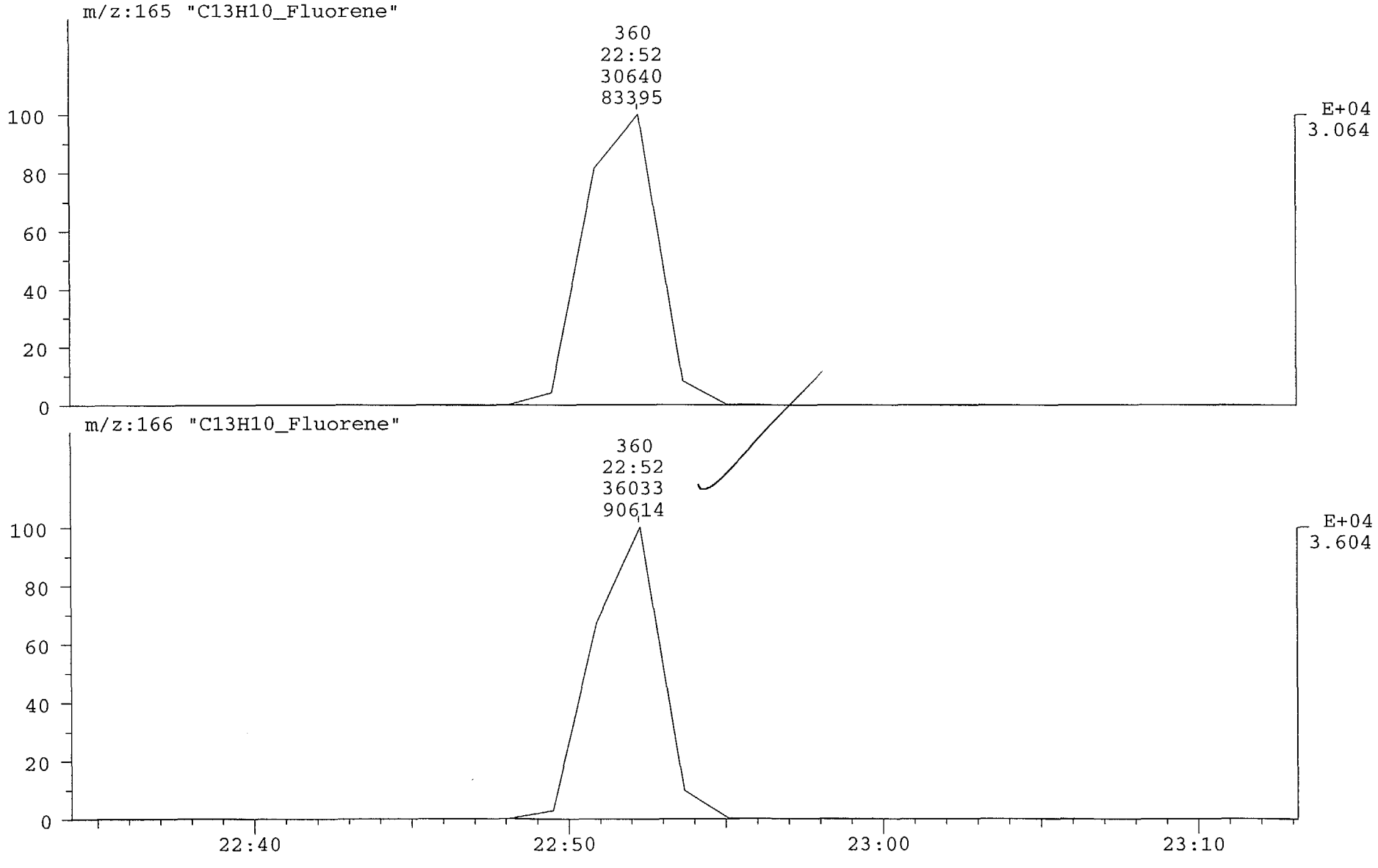
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



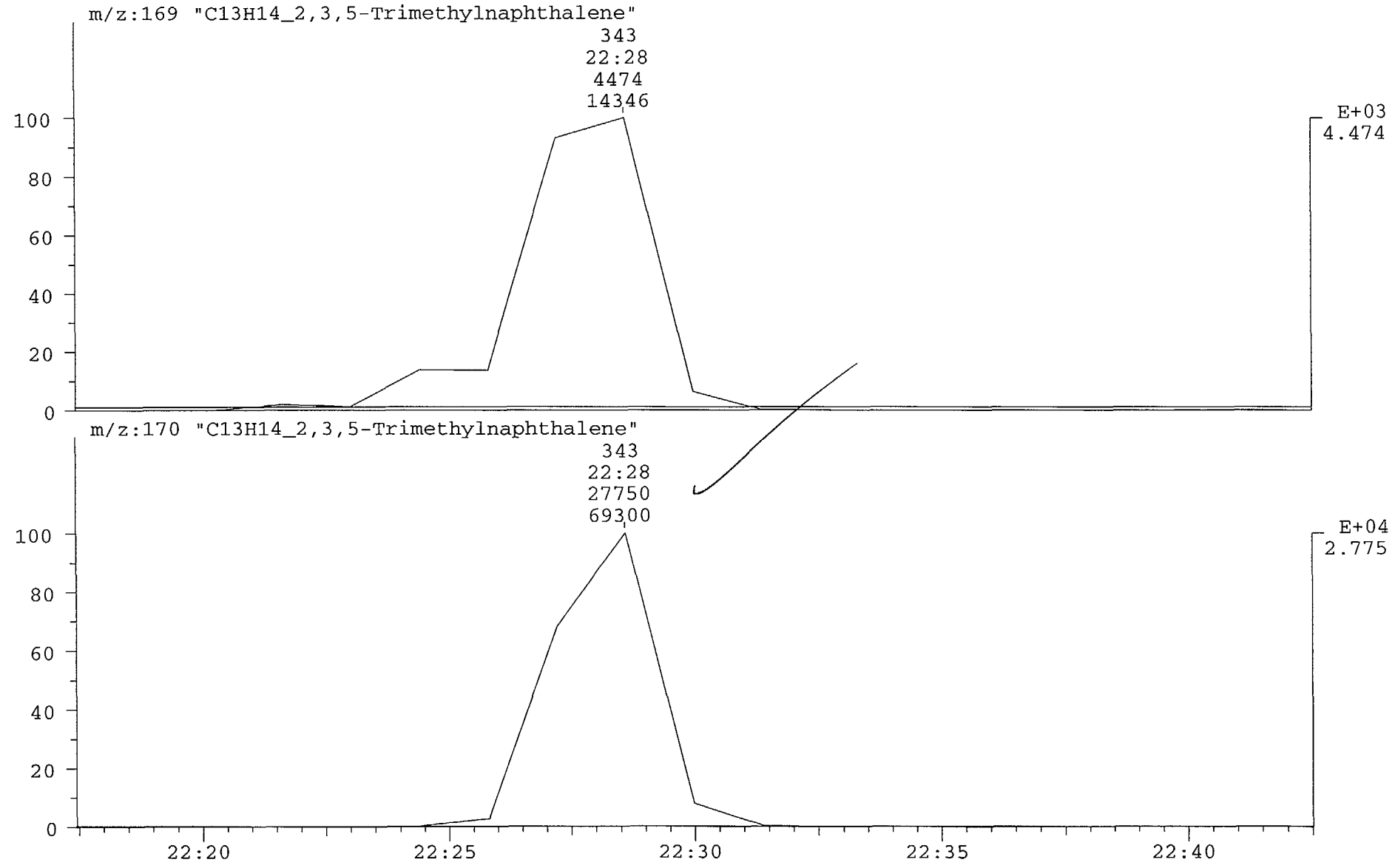
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



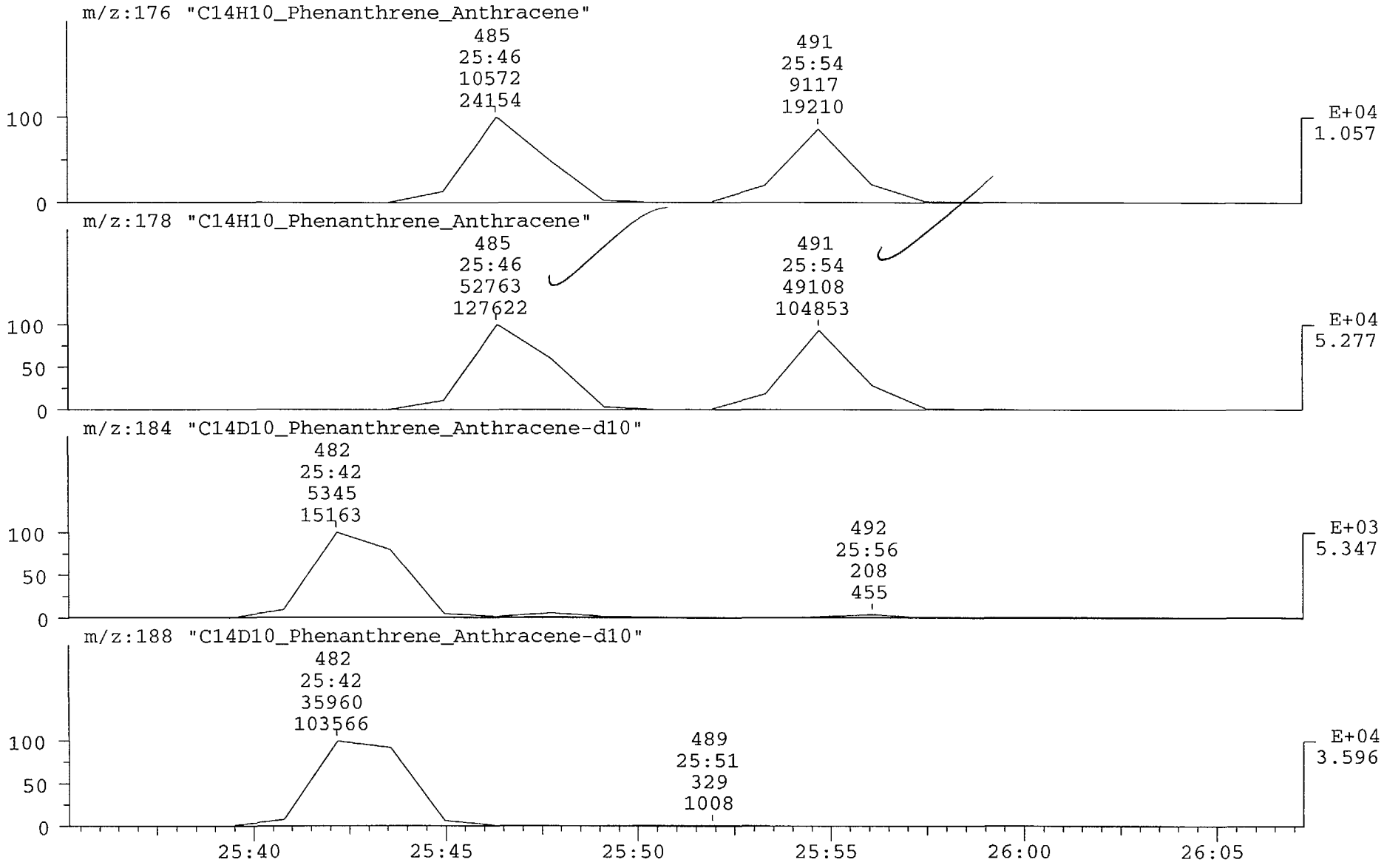
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



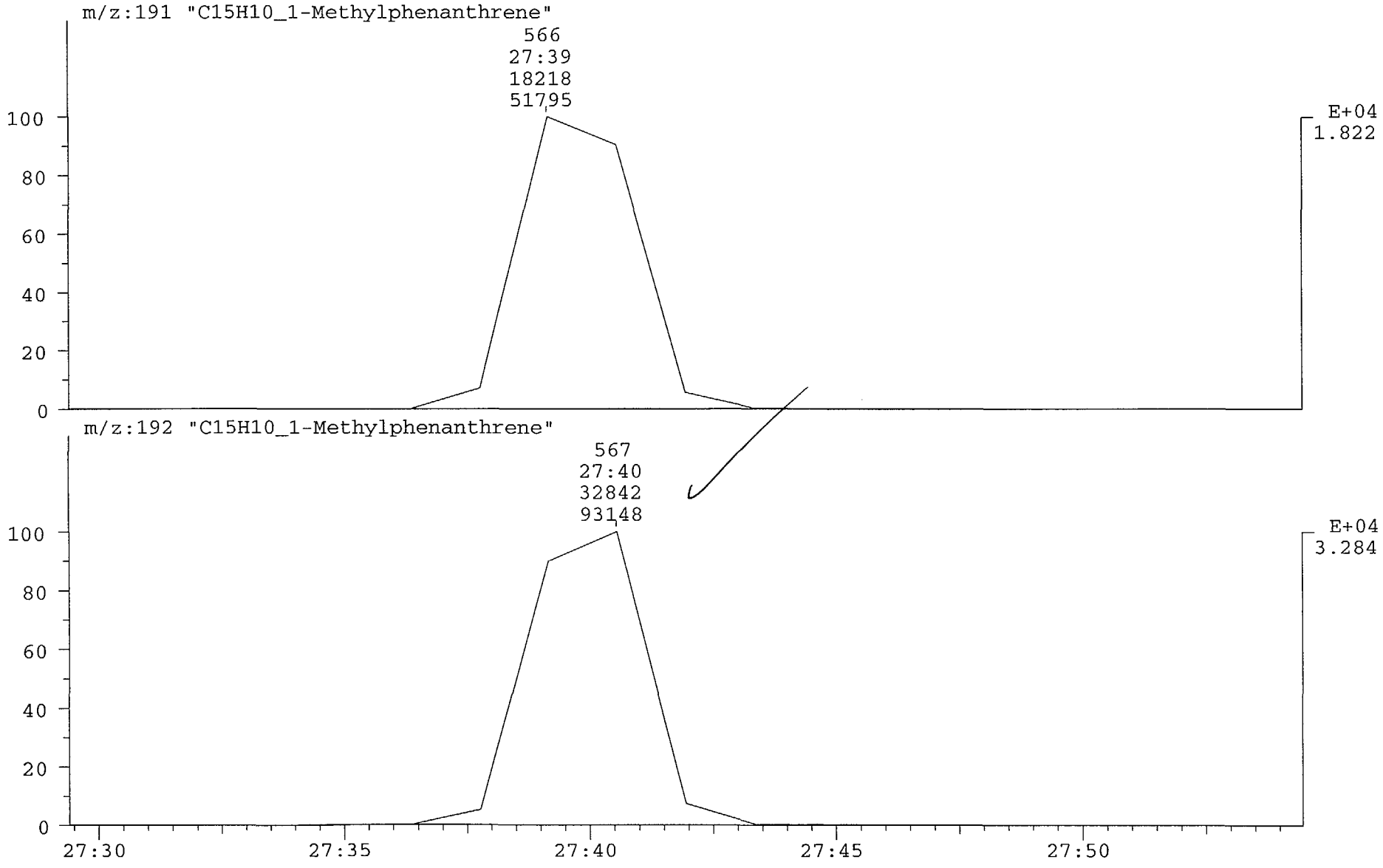
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



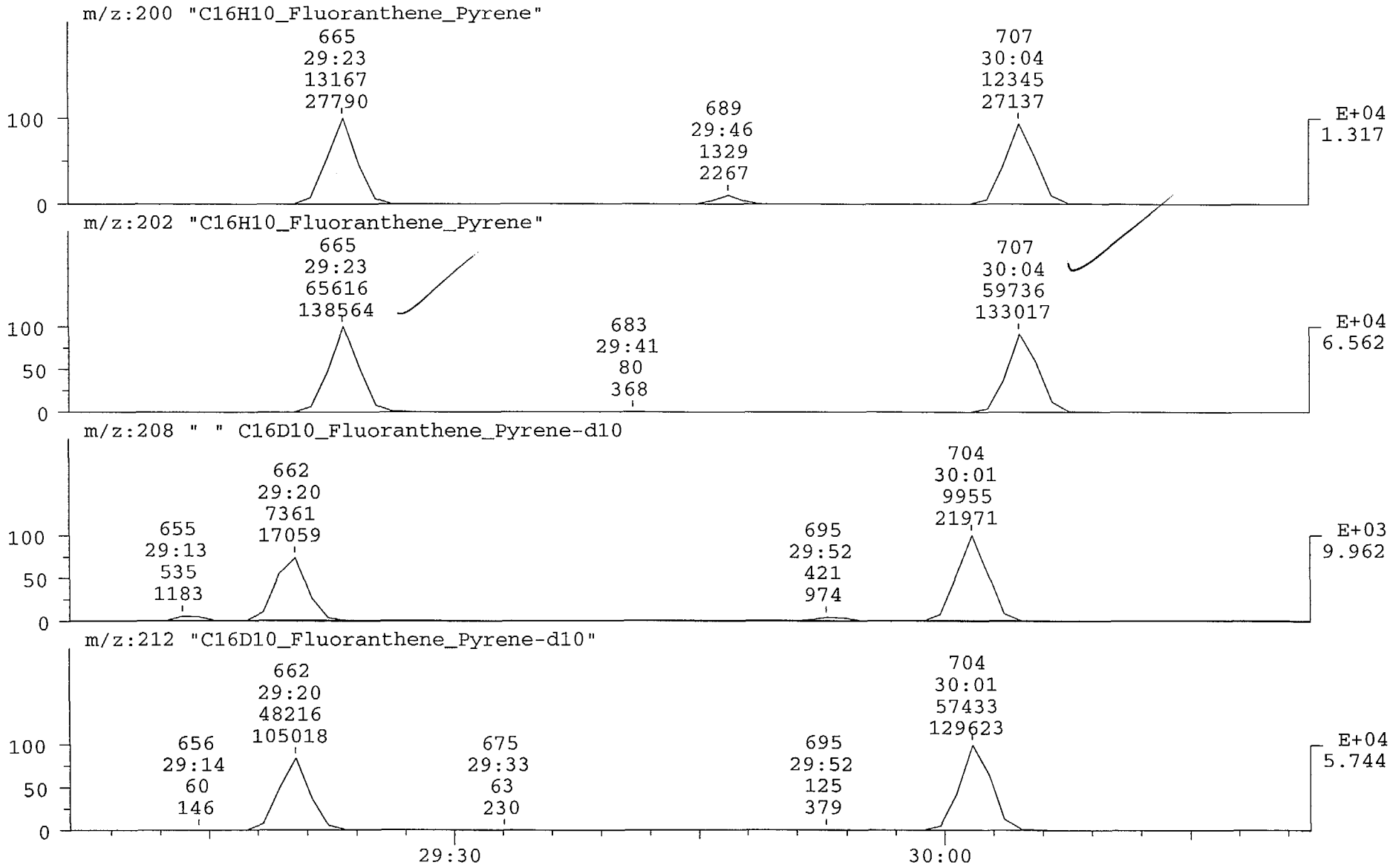
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



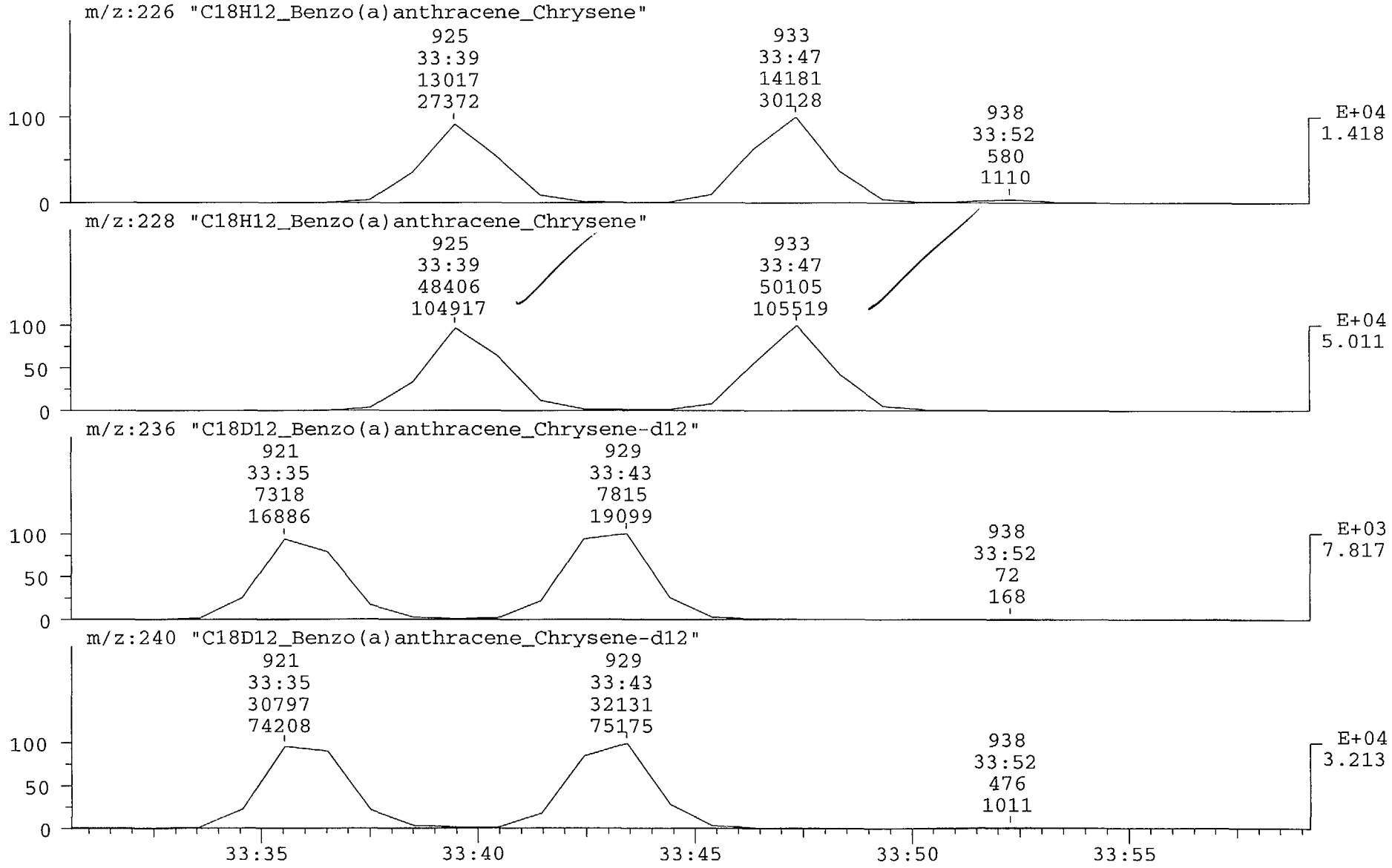
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



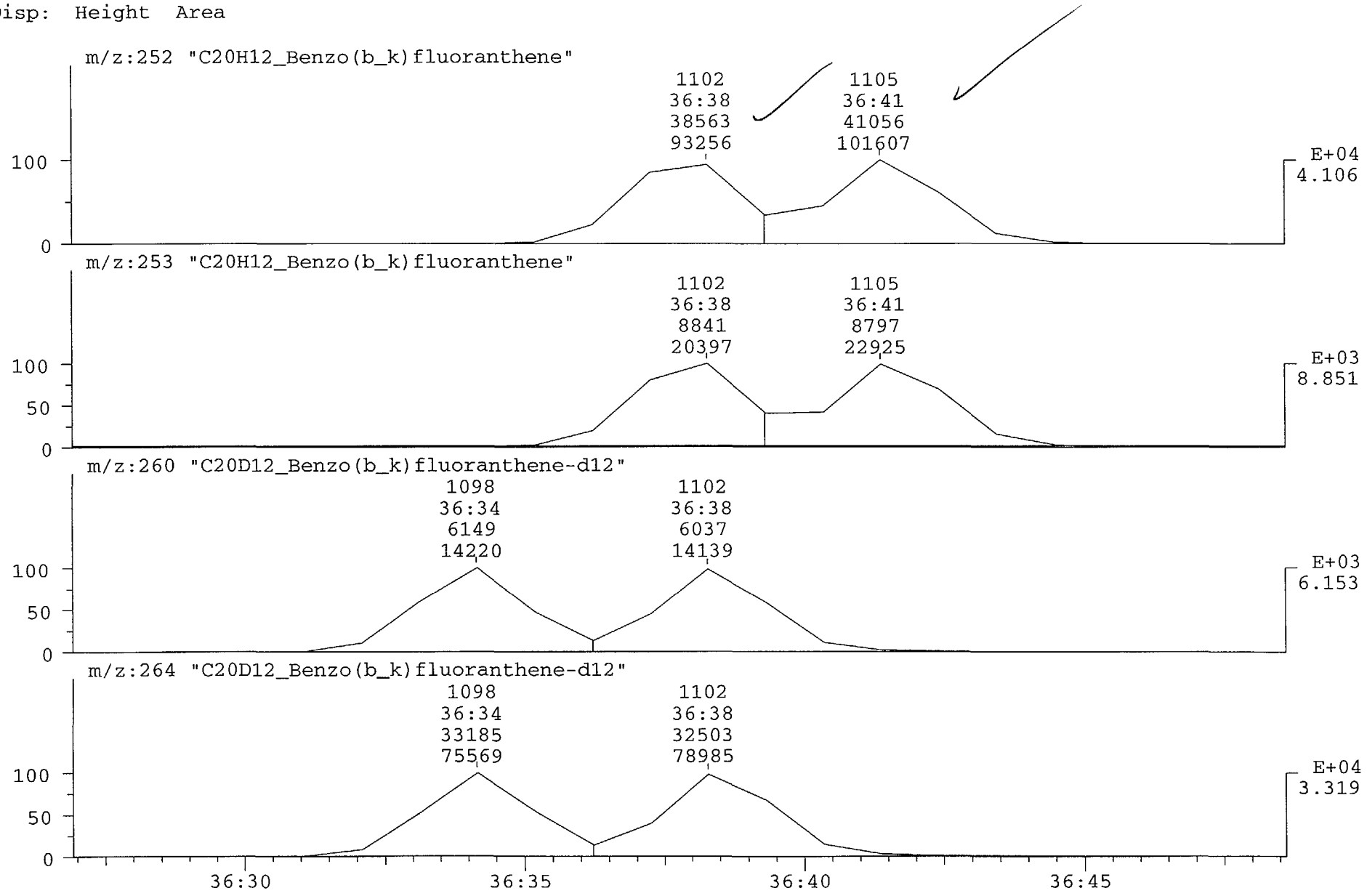
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



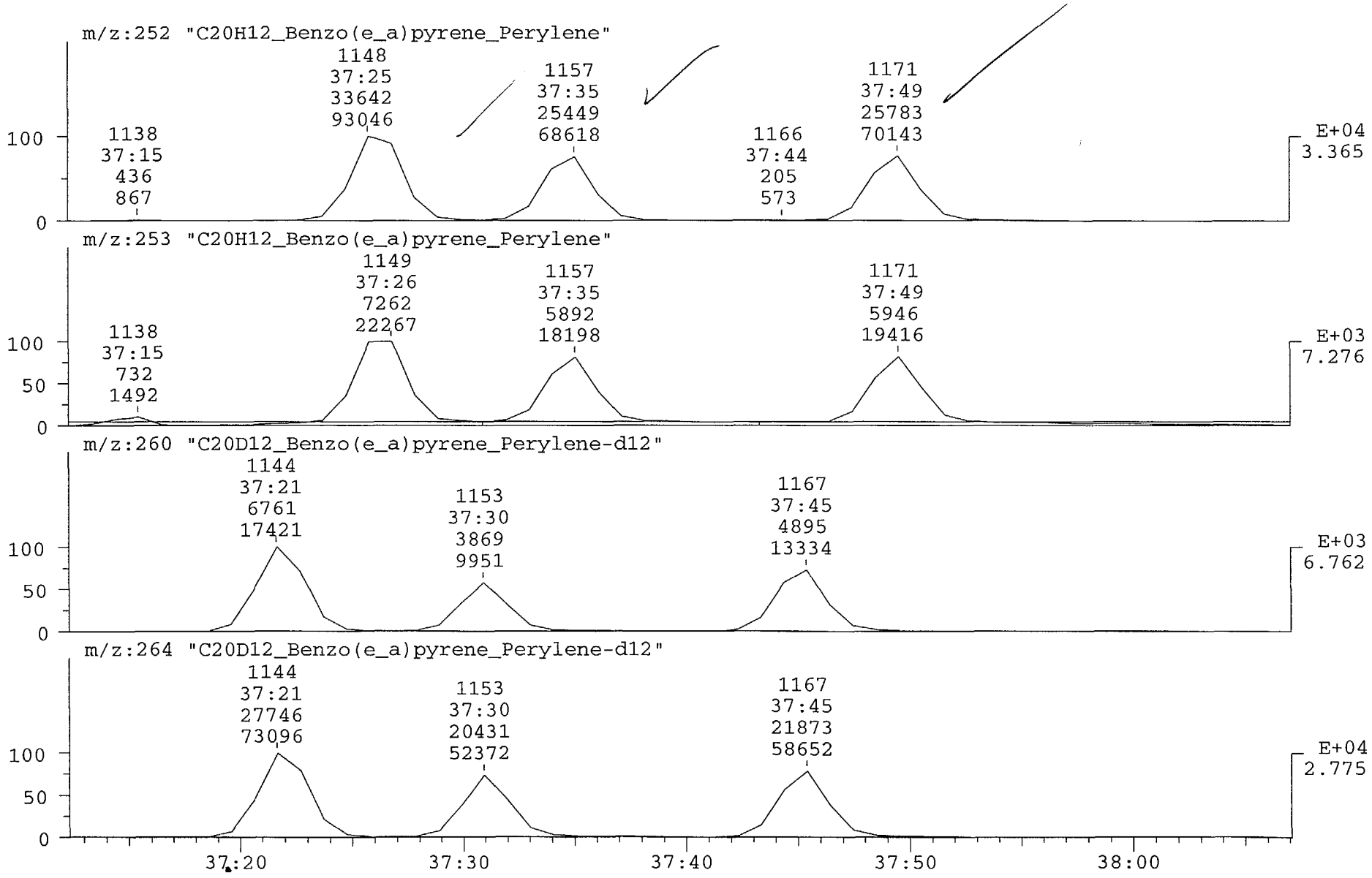
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



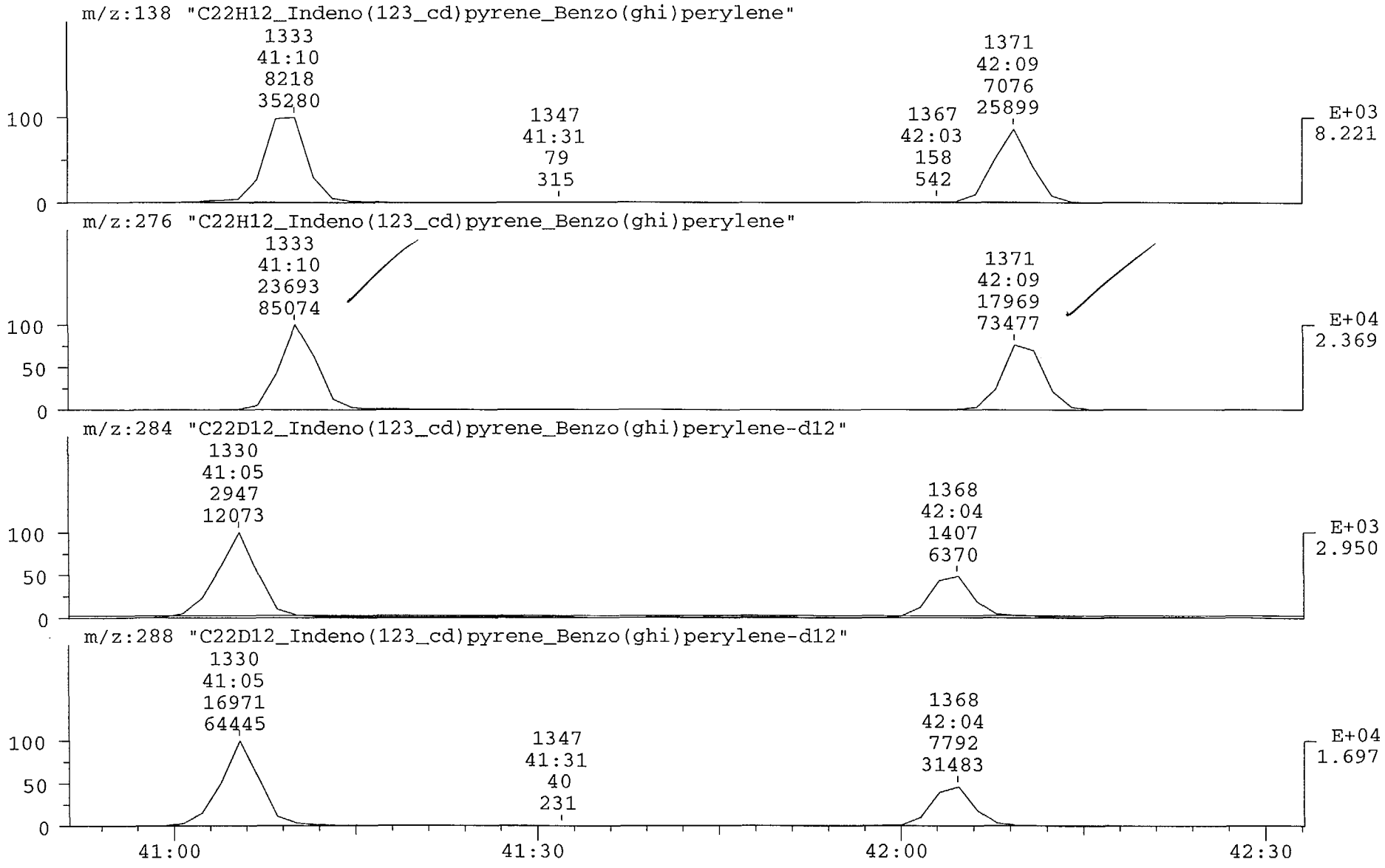
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



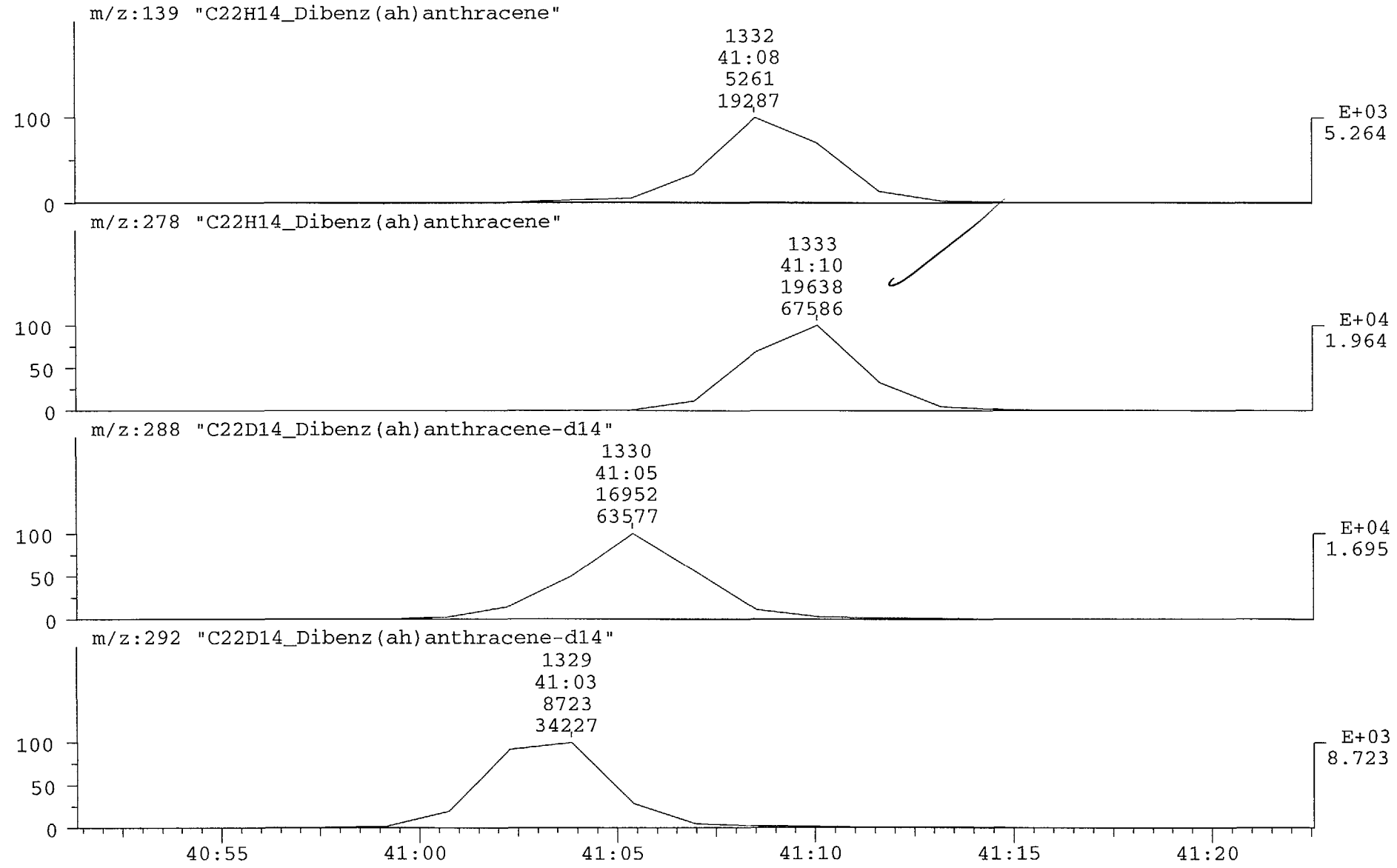
CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w5qc2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ac Meth=YA1 Dil=1 Start : 17:04:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060C Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2W5QC2.D
Date Acquired: 27 Apr 2006   5:04 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W5Q1AC
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  16
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Thu Apr 27 18:02:52 2006
d:\cdffiles\YH2W5QC2.CDF Translated at Thu Apr 27 18:02:52 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 12:29:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w5qc2.dat
NetCDF File (input): /usr/users/hp/data/yh2w5qc2.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 12:29:01 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AD	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5ql2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90339	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	17:54	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:57	100719	28969	1.623	500.0	428.047571	85.61	428.047571		0.282
Naphthalene	16:00	126157	38785	1.233	500.0	508.091390	101.62	508.091390	B	0.350
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene					500.0			ND		0.000000
2-Methylnaphthalene	18:02	87894	30963	1.270	500.0	472.052408	94.41	472.052408	B	0.310
2-Methylnaphthalene-d10	17:56	73324	25371	1.093	500.0	462.868775	92.57	462.868775		0.228
1-Methylnaphthalene	18:22	84900	33282	1.358	500.0	475.731304	95.15	475.731304	B	0.294
1-Methylnaphthalene-d10	18:17	65716	25070	0.958	500.0	473.425128	94.69	473.425128		0.261
1-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:26	114096	45595	1.552	500.0	501.266260	100.25	501.266260	B	0.698
2,6-Dimethylnaphthalene	19:54	84165	38545	1.240	500.0	496.369450	99.27	496.369450	B	1.38
2,6-Dimethylnaphthalene-d1	19:48	68351	26950	1.009	500.0	467.269255	93.45	467.269255		0.412
C2 Alkylnaphthalenes				1.240		496.369450		496.369450		1.29
Acenaphthylene	20:48	122143	53458	1.221	500.0	490.968211	98.19	490.968211		0.160
Acenaphthylene-d8	20:45	101855	38422	1.646	500.0	426.850710	85.37	426.850710		0.227
Acenaphthene-d10	21:16	72467	30046	1.000	500.0	500.000000	100.00	500.000000		0.291
Acenaphthene	21:21	83684	32867	0.740	500.0	555.485167	111.10	555.485167	B	0.968
2,3,5-Trimethylnaphthalene	22:28	77677	29674	1.140	500.0	498.517742	99.70	498.517742	B	0.448
C3 Alkylnaphthalenes				1.140		498.517742		498.517742		0.416
Fluorene d-10				0.805				ND		0.147
Fluorene-C13				0.752				ND		0.235
Fluorene	22:52	101108	38614	0.892	500.0	499.113693	99.82	499.113693	B	0.430
Phenanthrene-d10	25:42	113559	42415	0.793	500.0	504.037152	100.81	504.037152		0.171
Phenanthrene	25:46	141517	60456	1.210	500.0	514.894476	102.98	514.894476	B	0.438
Anthracene-d10								ND		0.000000
Anthracene	25:54	118074	56082	1.065	500.0	488.316578	97.66	488.316578		0.498
1-Methylphenanthrene	27:39	102552	35148	0.871	500.0	518.572593	103.71	518.572593		0.406
Fluoranthene-d10	29:20	115287	51868	0.761	500.0	532.756610	106.55	532.756610		0.229
Fluoranthene	29:23	152390	69879	1.298	500.0	509.135807	101.83	509.135807	B	0.167
Pyrene-d10	30:01	142092	64440	1.000	500.0	500.000000	100.00	500.000000		0.175
Pyrene	30:04	146037	66149	1.319	500.0	480.220718	96.04	480.220718	B	0.164
Terphenyl-d14				0.762				ND		0.127
Benzo(a)Anthracene-d12	33:35	79916	33411	0.514	500.0	547.006537	109.40	547.006537		0.340
Benzo(a)anthracene	33:39	114564	53517	1.385	500.0	517.622207	103.52	517.622207	B	0.162
Chrysene-d12	33:43	80754	33280	0.516	500.0	550.672038	110.13	550.672038		0.338
Chrysene	33:47	115120	54253	1.333	500.0	534.565001	106.91	534.565001	B	0.169
Benzo(b)Fluoranthene-d12	36:34	81614	35323	0.895	500.0	580.290596	116.06	580.290596		0.497
Benzo(k)Fluoranthene-d12	36:38	84182	35287	1.030	500.0	519.759133	103.95	519.759133		0.432
Benzo(b)fluoranthene	36:38	101638	40839	1.446	500.0	430.761538	86.15	430.761538	B	0.441
Benzo(k)fluoranthene	36:41	108694	44016	1.093	500.0	590.407491	118.08	590.407491	B	0.583
Benzo(e)pyrene-d12	37:21	78607	30930	1.000	500.0	500.000000	100.00	500.000000		0.445
Benzo(e)pyrene	37:25	101870	38092	1.495	500.0	607.472436	121.49	607.472436	B	0.702
Benzo(a)Pyrene-d12	37:31	56076	21443	0.776	500.0	459.626678	91.93	459.626678		0.573
Benzo(a)pyrene	37:35	74073	27081	1.286	500.0	513.666482	102.73	513.666482	B	0.816
Perylene-d12	37:45	63000	23448	0.936	500.0	428.020843	85.60	428.020843		0.475
Perylene	37:49	77426	28899	1.140	500.0	539.056434	107.81	539.056434	B	0.842
3-Methylcholanthrene					500.0			ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AD	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5ql2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90339	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/27/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	17:54	Initial Wt/Vol	1	Lims Test Code	XXSIOYA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:02	36318	8969	0.402	500.0	575.090700	115.02	575.090700		0.805
Indeno(1,2,3-cd)pyrene-d12	41:05	68656	17918	0.772	500.0	565.605128	113.12	565.605128		0.680
Indeno(1,2,3-cd)pyrene	41:10	92522	26311	1.259	500.0	535.119919	107.02	535.119919	~~B~~	0.388
Dibenz(a,h)anthracene	41:10	72550	21093	1.961	500.0	509.451636	101.89	509.451636	~~B~~	0.498
Benzo(ghi)Perylene-d12	42:04	33504	8212	0.561	500.0	379.945906	75.99	379.945906		0.937
Benzo(ghi)perylene	42:09	80358	19820	1.639	500.0	731.605254	146.32	731.605254	~~B~~	0.650
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene					500.0			ND		0.000000

4/28/06 x3

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AD	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5ql2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90339	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/27/06 17:54	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	25		10				
	Naphthalene	16:00	16:00	0	126157		38785			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	28		11				
	Naphthalene-d8	15:57	15:57	0	100719		28969			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene	18:02	18:03	-1	87894		30963			ABV	M
	1-Methylnaphthalene	18:22	18:22	0	84900		33282			AVB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:56	17:58	-2	73324		25371			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	65716		25070			AVV	
	Acenaphthylene	20:48	20:48	0	122143		53458			ABB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	55		22				
	Biphenyl	19:26	19:26	0	114096		45595			ABB	M
	Acenaphthene	21:21	21:21	0	83684		32867			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	93		37				
	2,6-Dimethylnaphthalene	19:54	19:54	0	84165		38545			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	23		9				
	Acenaphthylene-d8	20:45	20:46	-1	101855		38422			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	18		7				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	18		7				
	Acenaphthene-d10	21:16	21:16	0	72467		30046			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	33		13				
	Fluorene	22:52	22:52	0	101108		38614			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	25		10				
	2,6-Dimethylnaphthalene	19:48	19:47	1	68351		26950			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	38		15				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	28		11				
	2,3,5-Trimethylnaphthal	22:28	22:28	0	77677		29674			ABB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	15		6				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W5Q1AD	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5ql2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90339	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/27/06 17:54	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	10		4				
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	45		18				
	Phenanthrene	25:46	25:47	-1	141517		60456			ABV	M
	Anthracene	25:54	25:54	0	118074		56082			AVB	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene-d10	25:42	25:43	-1	113559		42415			ABV	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	30		12				
	1-Methylphenanthrene	27:39	27:40	-1	102552		35148			ABB	
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene	29:23	29:23	0	152390		69879			ABV	M
	Pyrene	30:04	30:05	-1	146037		66149			ABV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene-d10	29:20	29:20	0	115287		51868			ABV	
	Pyrene-d10	30:01	30:01	0	142092		64440			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)anthracene	33:39	33:39	0	114564		53517			ABV	M
	Chrysene	33:47	33:47	0	115120		54253			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)Anthracene-d12	33:35	33:36	-1	79916		33411			ABV	
	Chrysene-d12	33:43	33:43	0	80754		33280			AVV	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	10		4				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	45		18				
	Benzo(b)fluoranthene	36:38	36:38	0	101638		40839			ABV	M
	Benzo(k)fluoranthene	36:41	36:41	0	108694		44016			AVB	M
	Benzo(e)pyrene	37:25	37:26	-1	101870		38092			ABV	M
	Benzo(a)pyrene	37:35	37:35	0	74073		27081			AVV	M
	Perylene	37:49	37:49	0	77426		28899			AVV	M
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	28		11				
	Benzo(b)Fluoranthene-d1	36:34	36:34	0	81614		35323			ABV	
	Benzo(k)Fluoranthene-d1	36:38	36:38	0	84182		35287			AVB	
	Benzo(e)pyrene-d12	37:21	37:22	-1	78607		30930			ABV	
	Benzo(a)Pyrene-d12	37:31	37:31	0	56076		21443			AVV	
	Perylene-d12	37:45	37:45	0	63000		23448			AVV	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

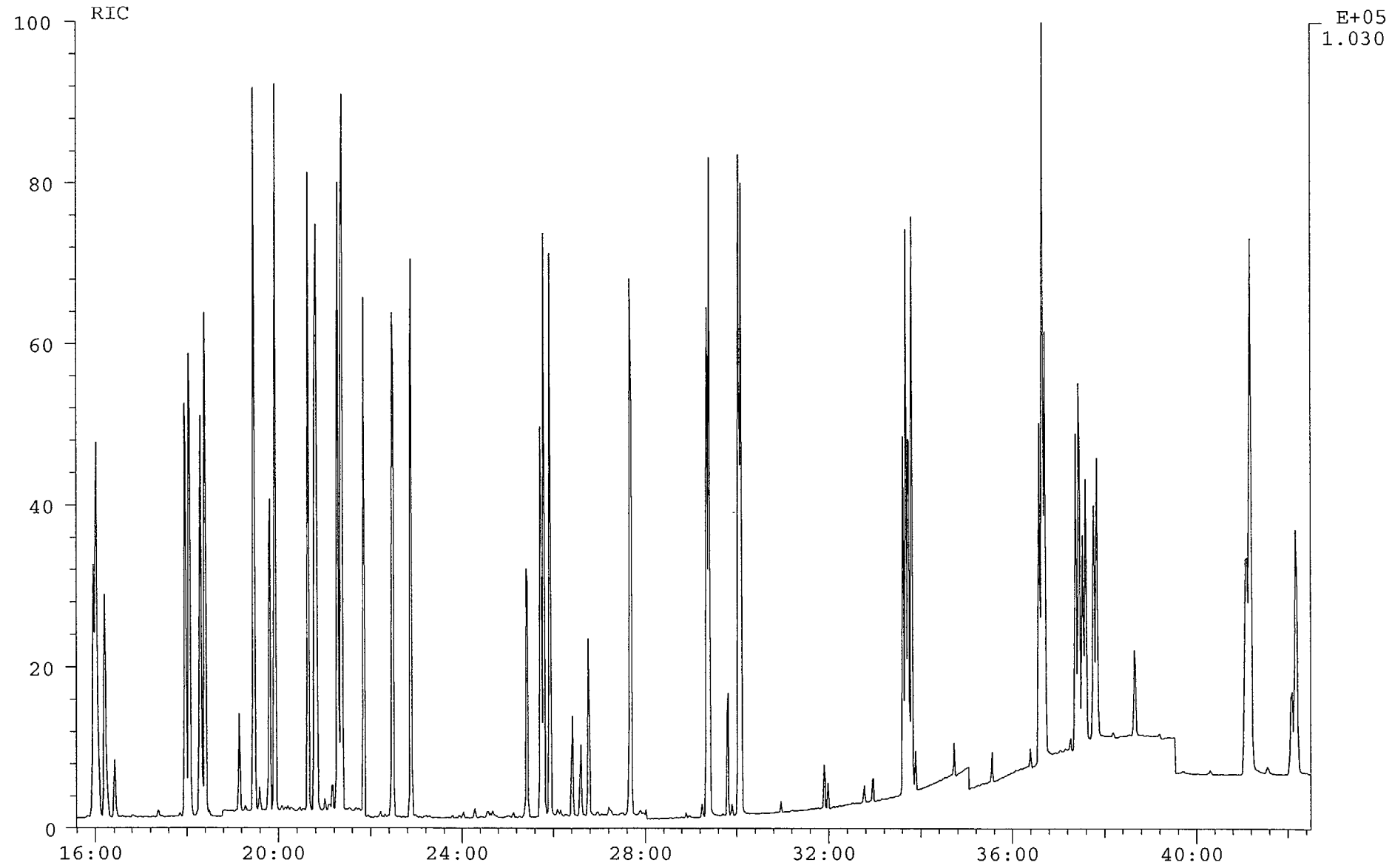
Workorder	H2W5Q1AD	Prep Batch	6100060	Lot No	H6D100000-060
Data File	/20060427s1/yh2w5ql2.d	Prep Date	04/10/06	SDG No	
Analysis ID	90339	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/27/06 17:54	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXSIOYA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
268					268.0000		268.0000				
Noise		00:00	00:00	0	55		22				
276					276.0000		276.0000				
Noise		00:00	00:00	0	18		7				
Indeno(1,2,3-cd)pyrene		41:10	41:10	0	92522	✓	26311			ABV	M
Benzo(ghi)perylene		42:09	42:11	-2	80358	✓	19820			ABB	M
278					278.0000		278.0000				
Noise		00:00	00:00	0	18		7				
Dibenz(a,h)anthracene		41:10	41:10	0	72550	✓	21093			ABB	M
288					288.0000		288.0000				
Noise		00:00	00:00	0	33		13				
Indeno(1,2,3-cd)pyrene-		41:05	41:05	0	68656	✓	17918			ABV	
Benzo(ghi)Perylene-d12		42:04	42:04	0	33504	✓	8212			ABB	
292					292.0000		292.0000				
Noise		00:00	00:00	0	20		8				
Dibenz(ah)Anthracene-d1		41:02	41:03	-1	36318	✓	8969			ABB	
302					302.0000		302.0000				
Noise		00:00	00:00	0	8		3				
308					308.0000		308.0000				
Noise		00:00	00:00	0	10		4				

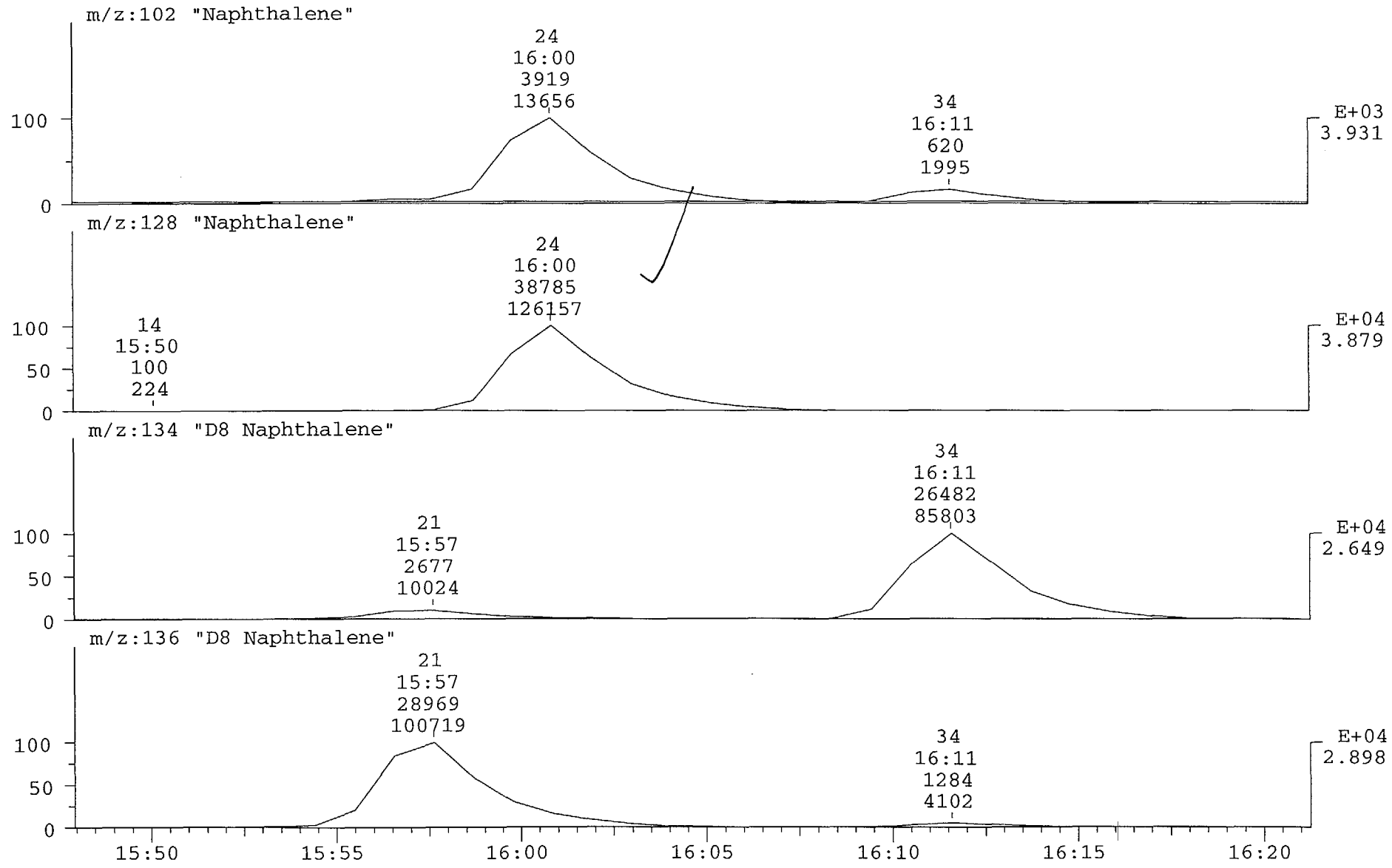
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: yh2w5q12 27-APR-06 Elapse: 31:34.3 / 798
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 1 > 1384 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : 0, 3.0
Disp: Height Area

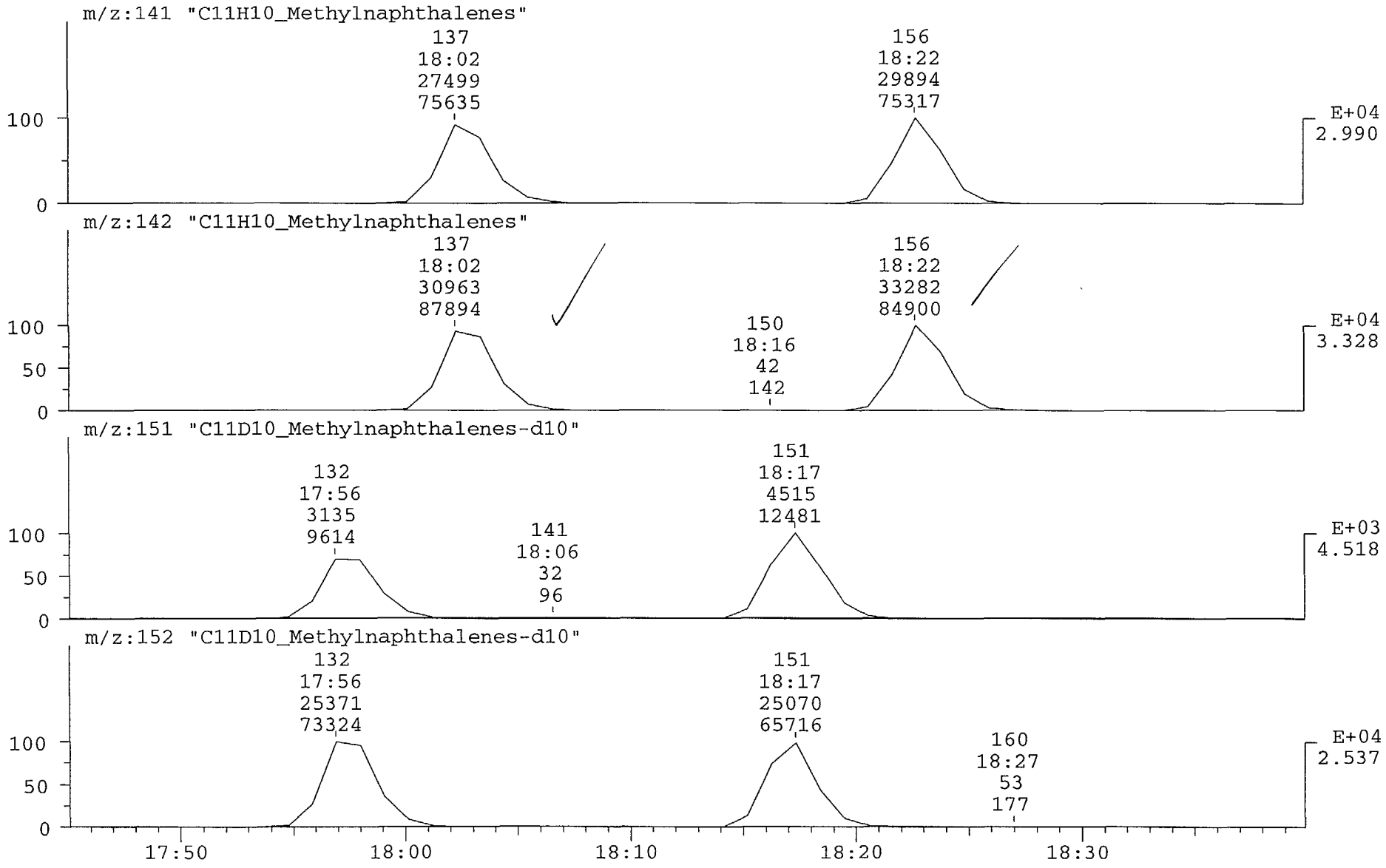
Cert / Calc: Cyl 27Mar
QC VMIC 4/28/06
Rev VMIC 4/28/06



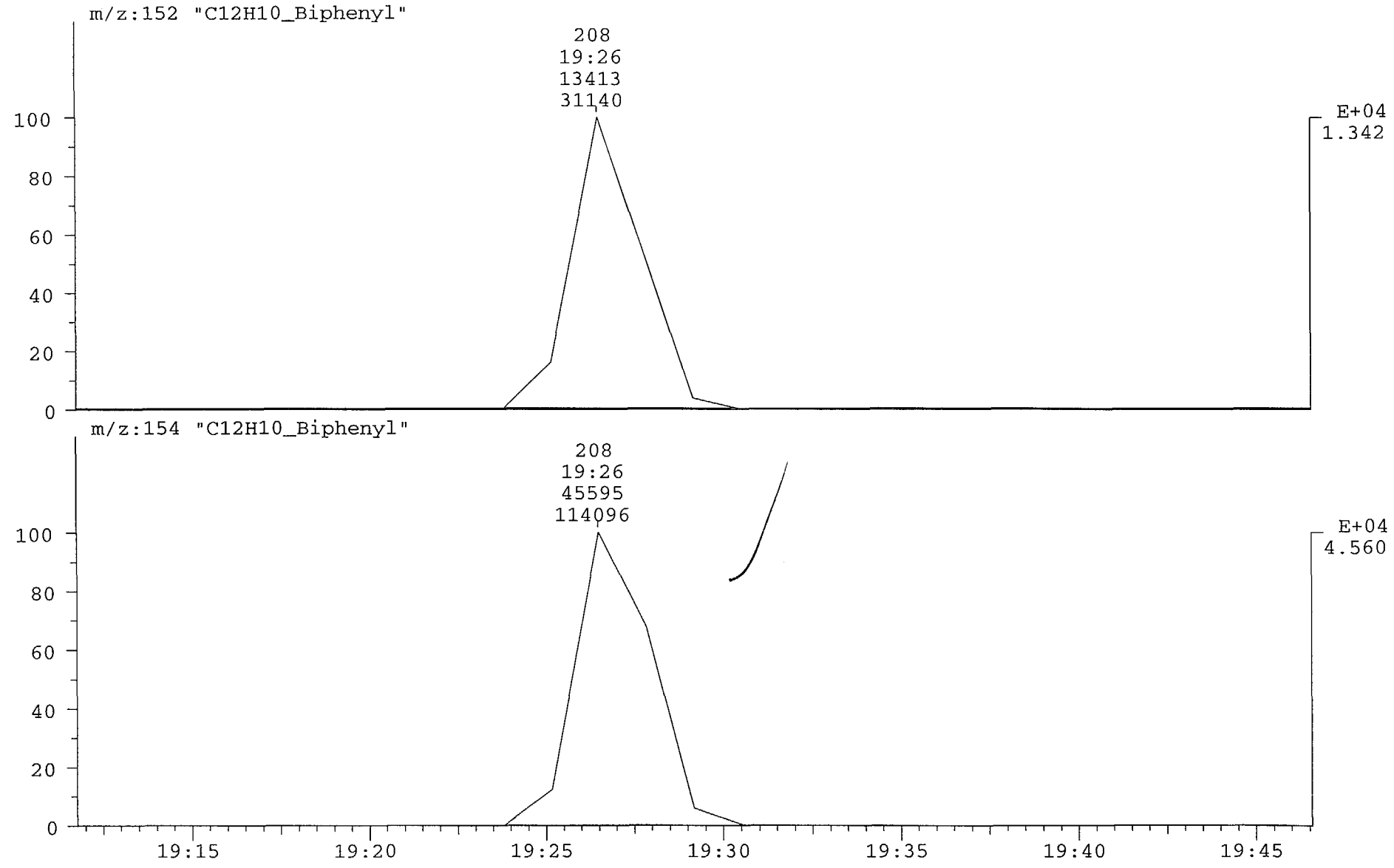
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



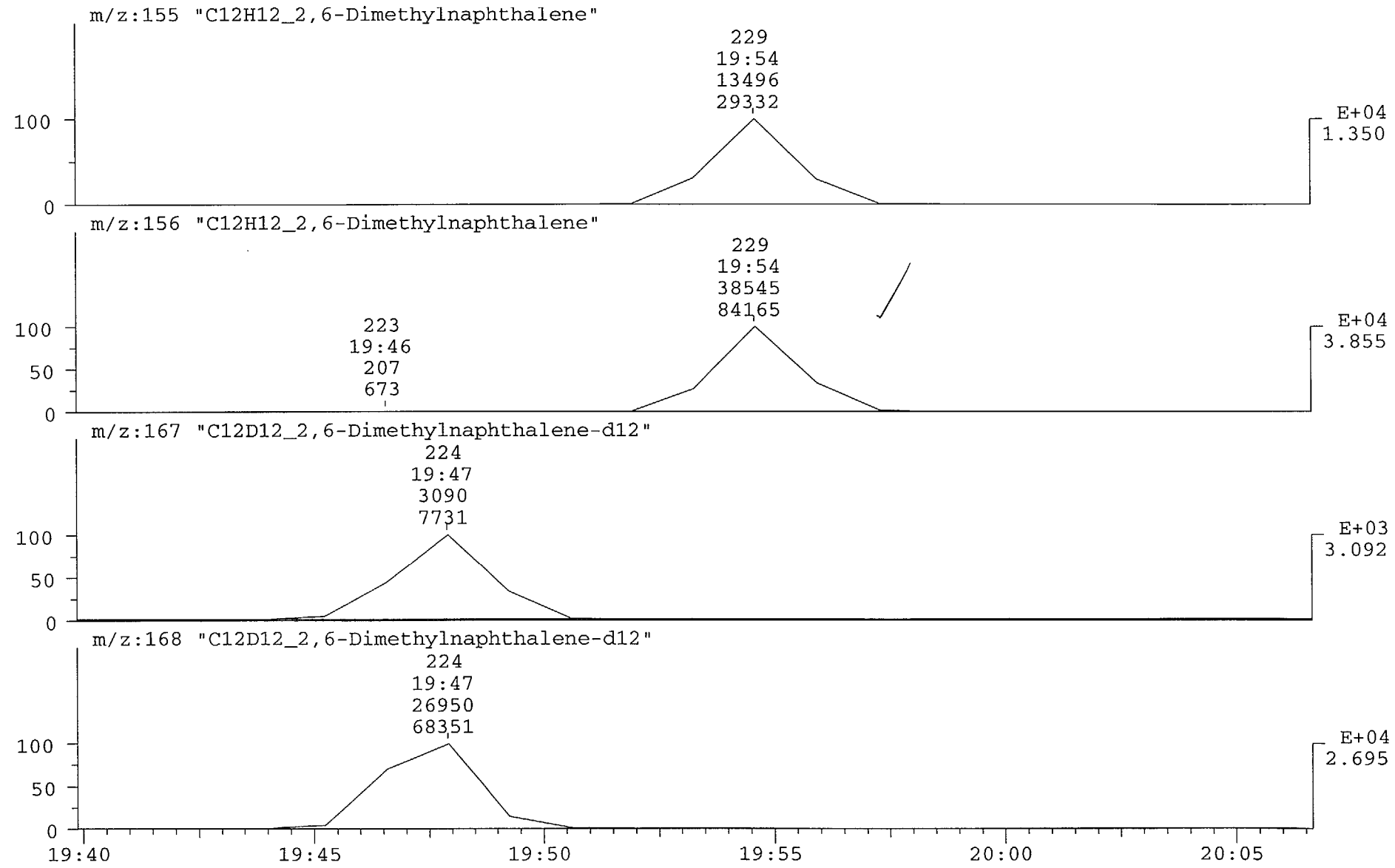
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



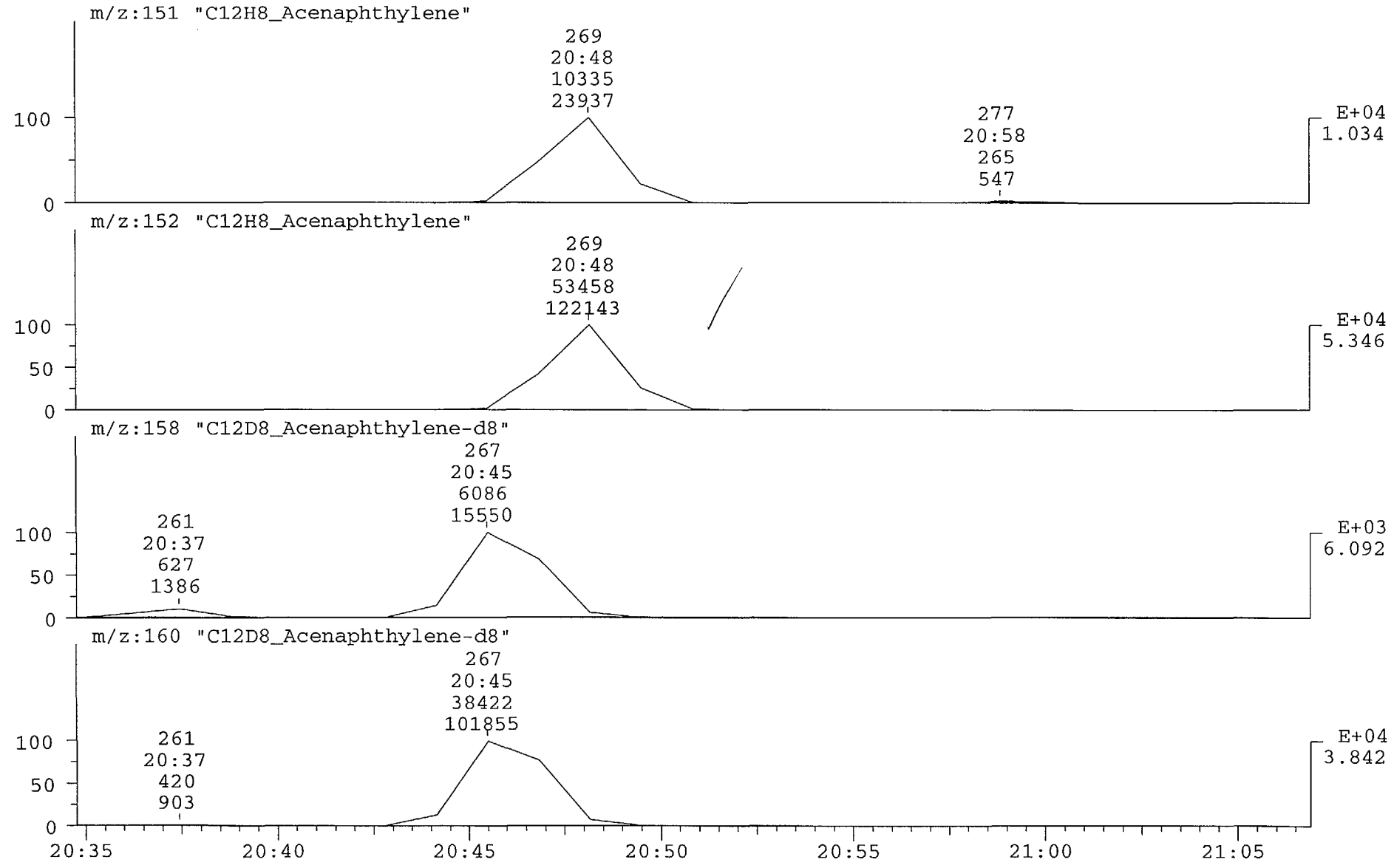
CHRO: yh2w5ql2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 197 > 223 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



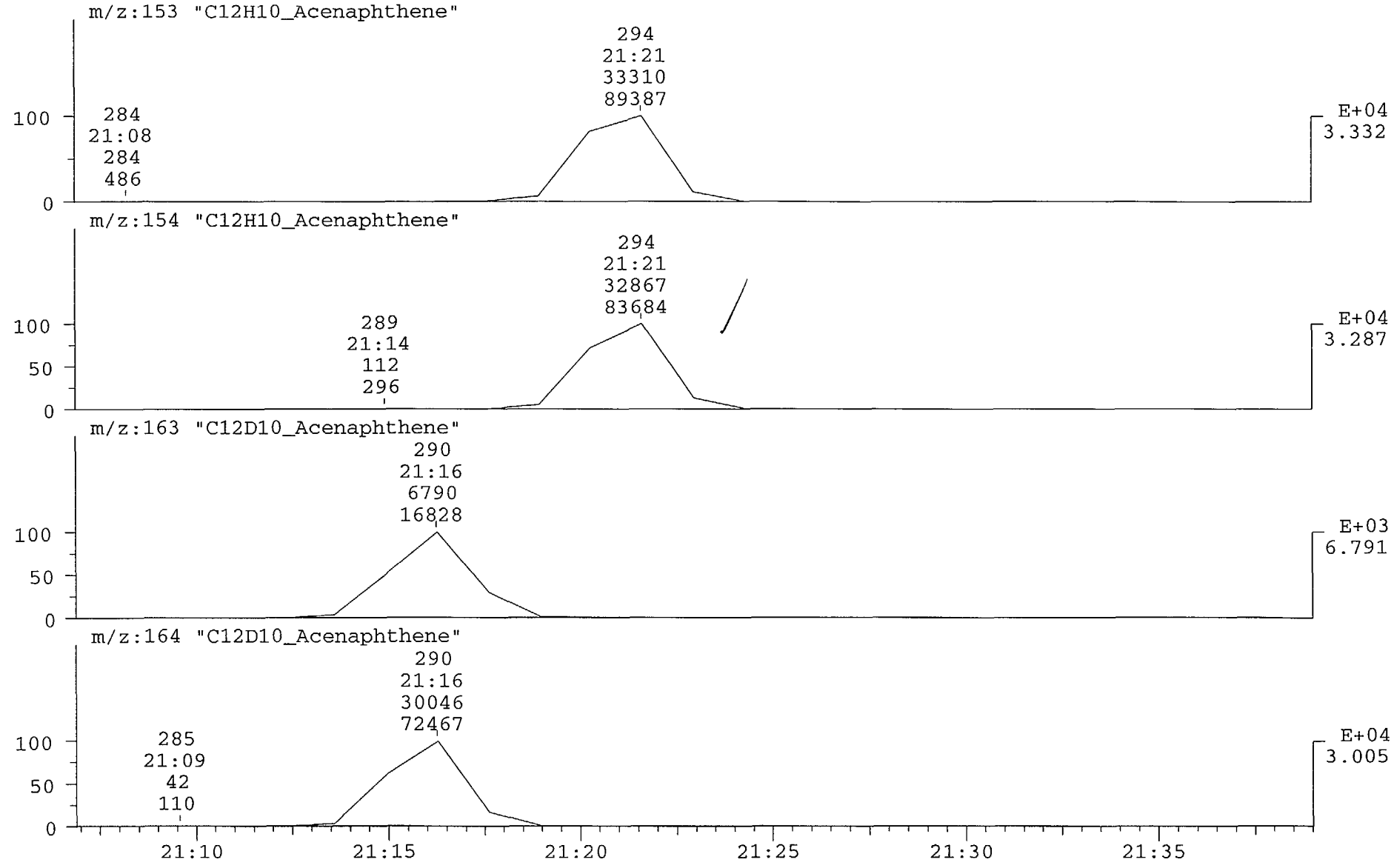
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



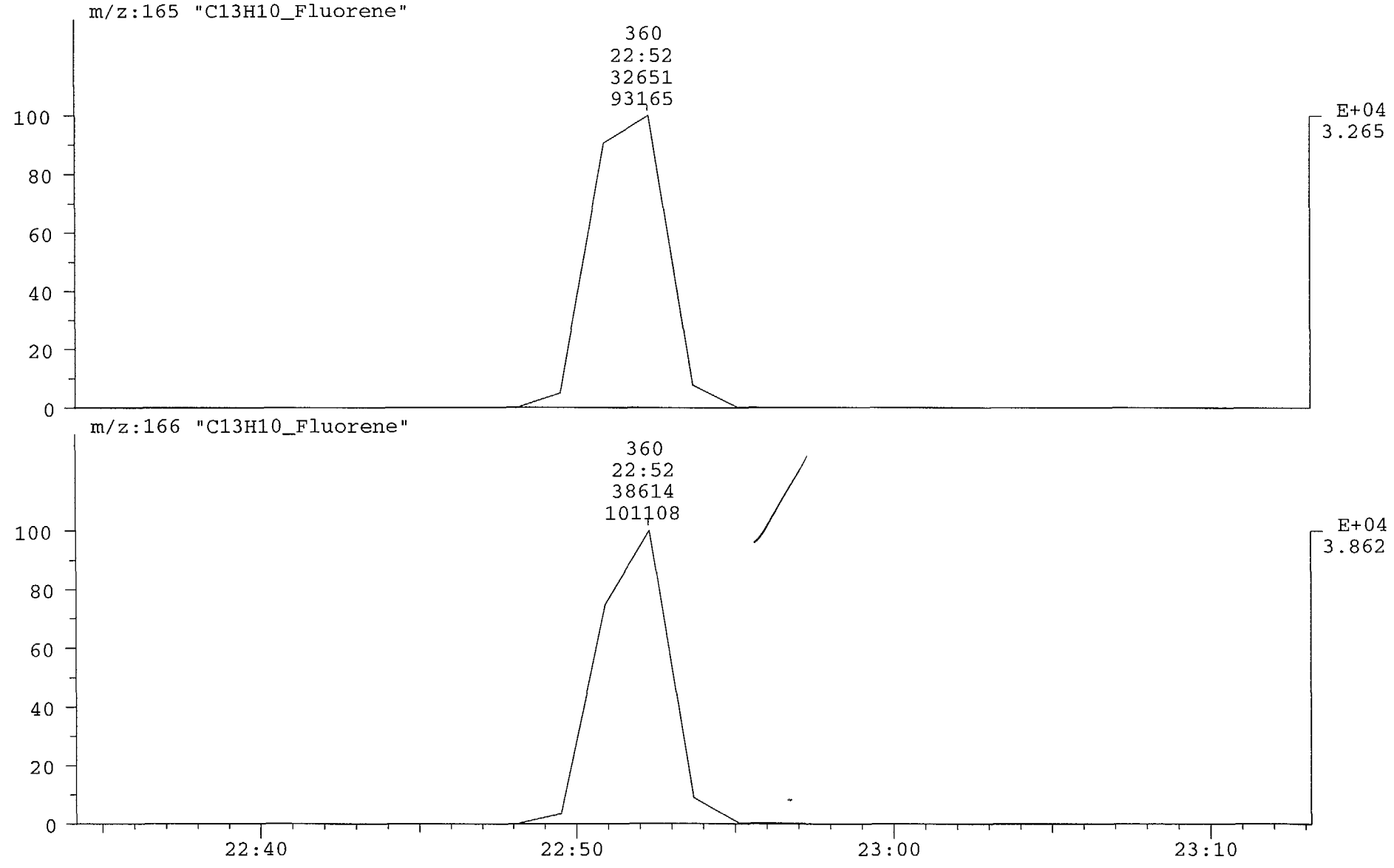
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



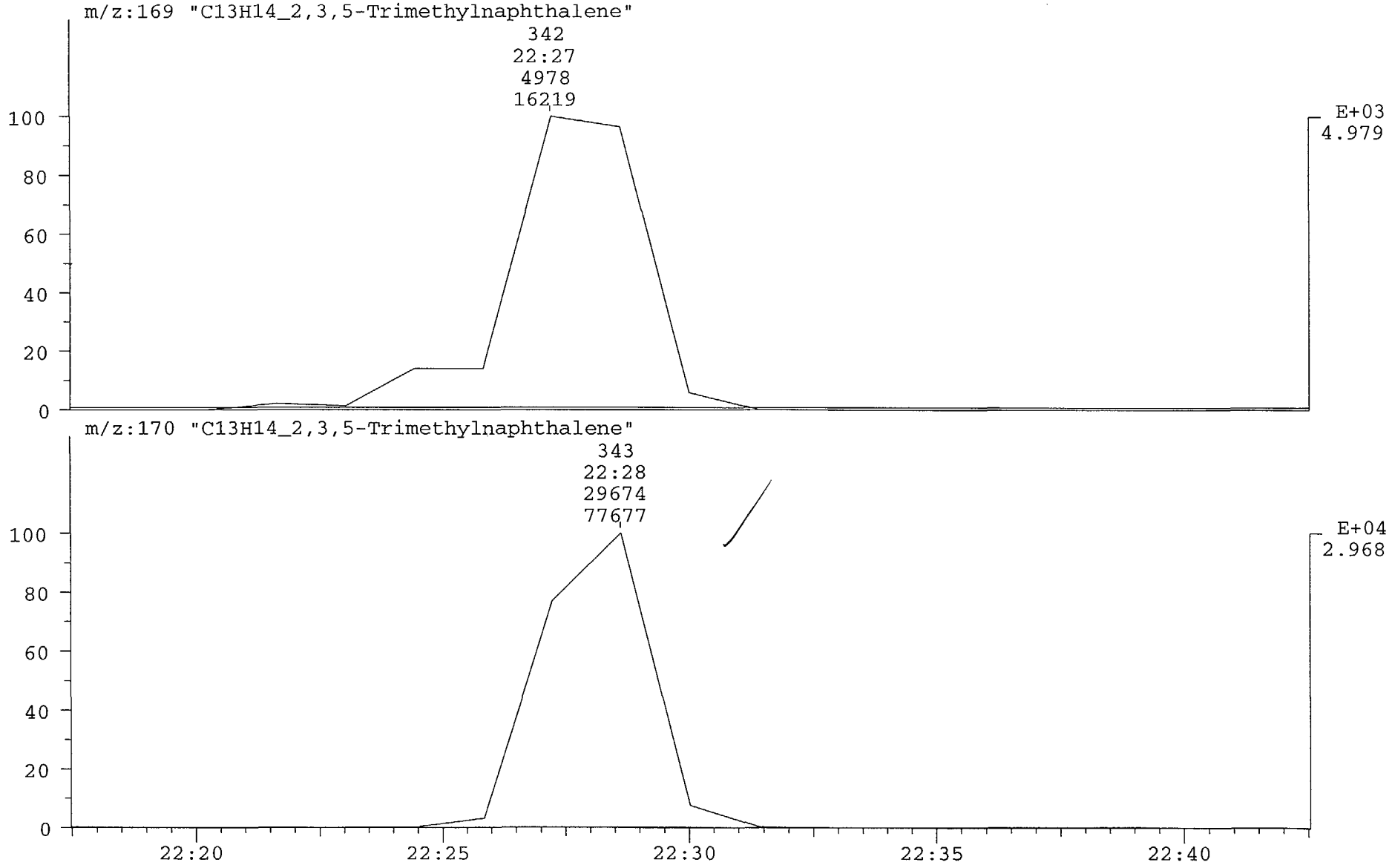
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



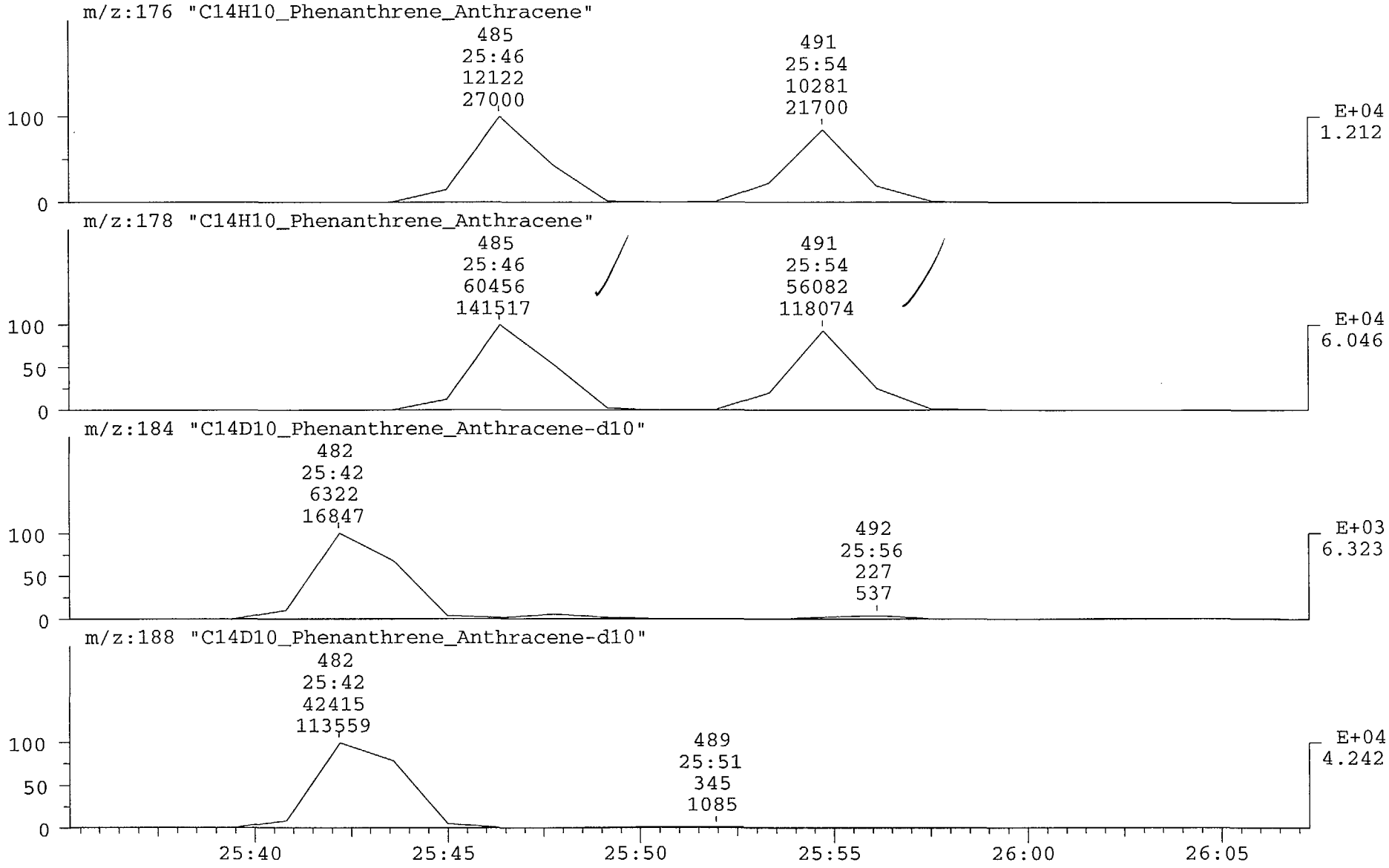
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



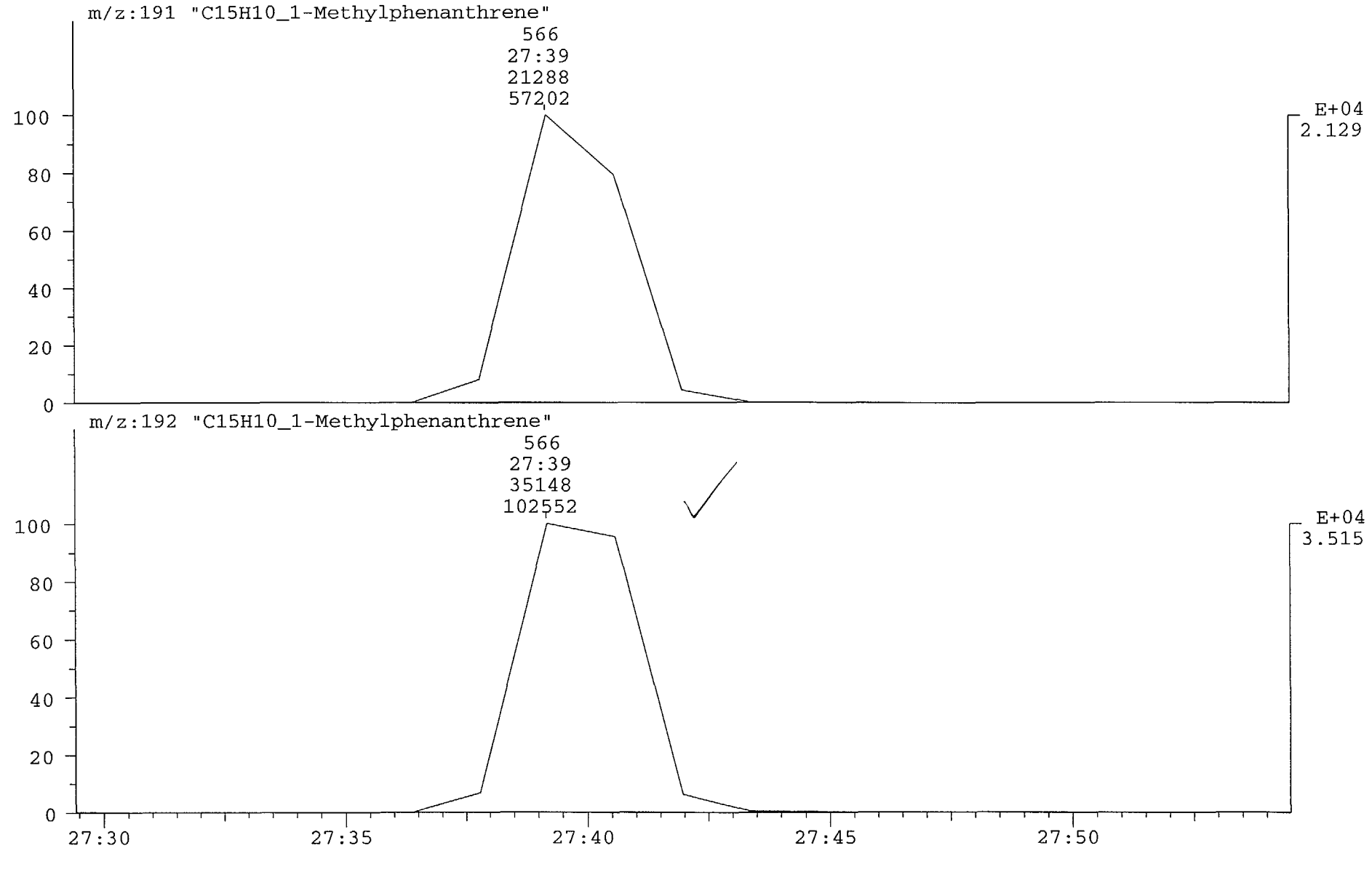
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



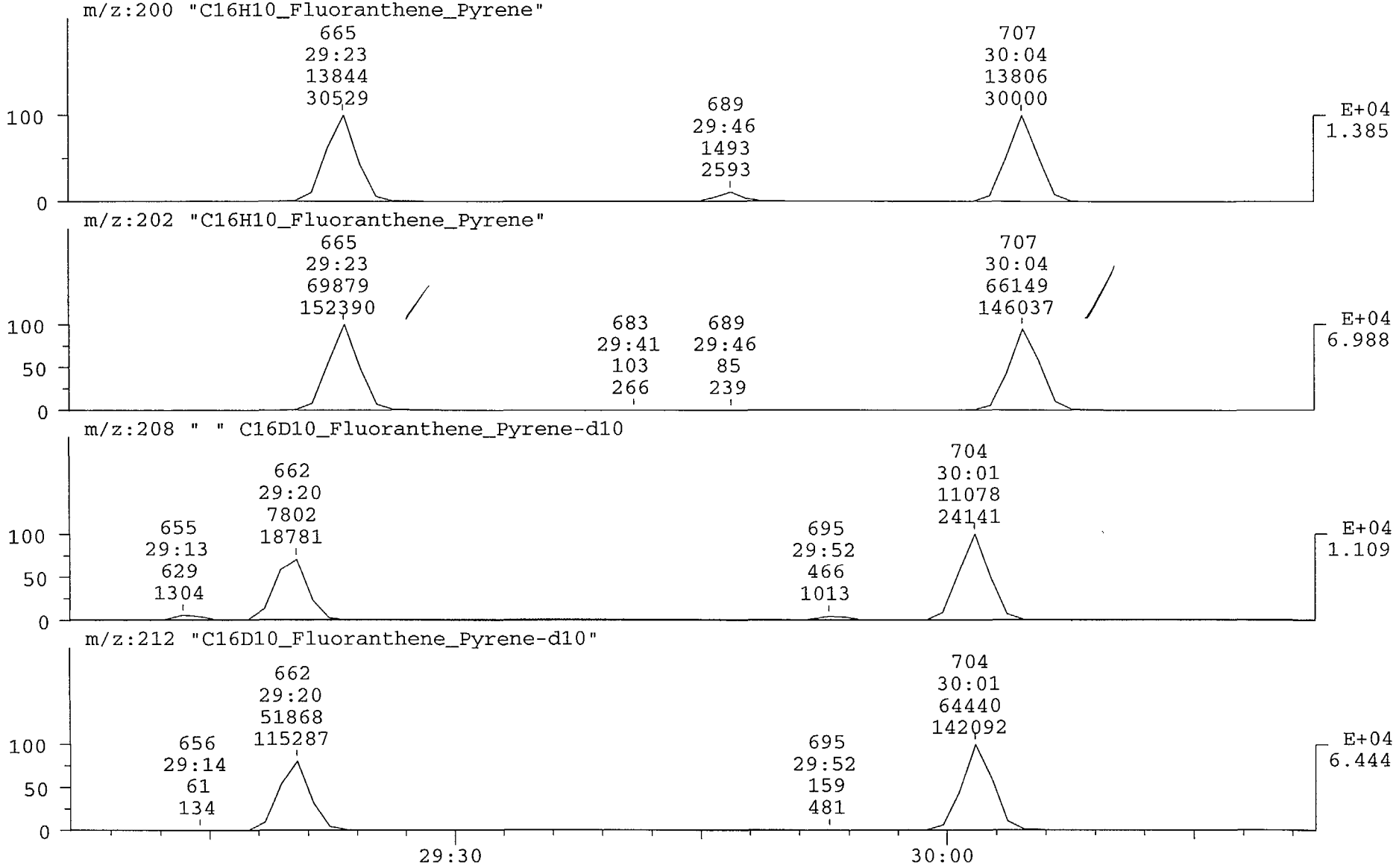
CHRO: yh2w5ql2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



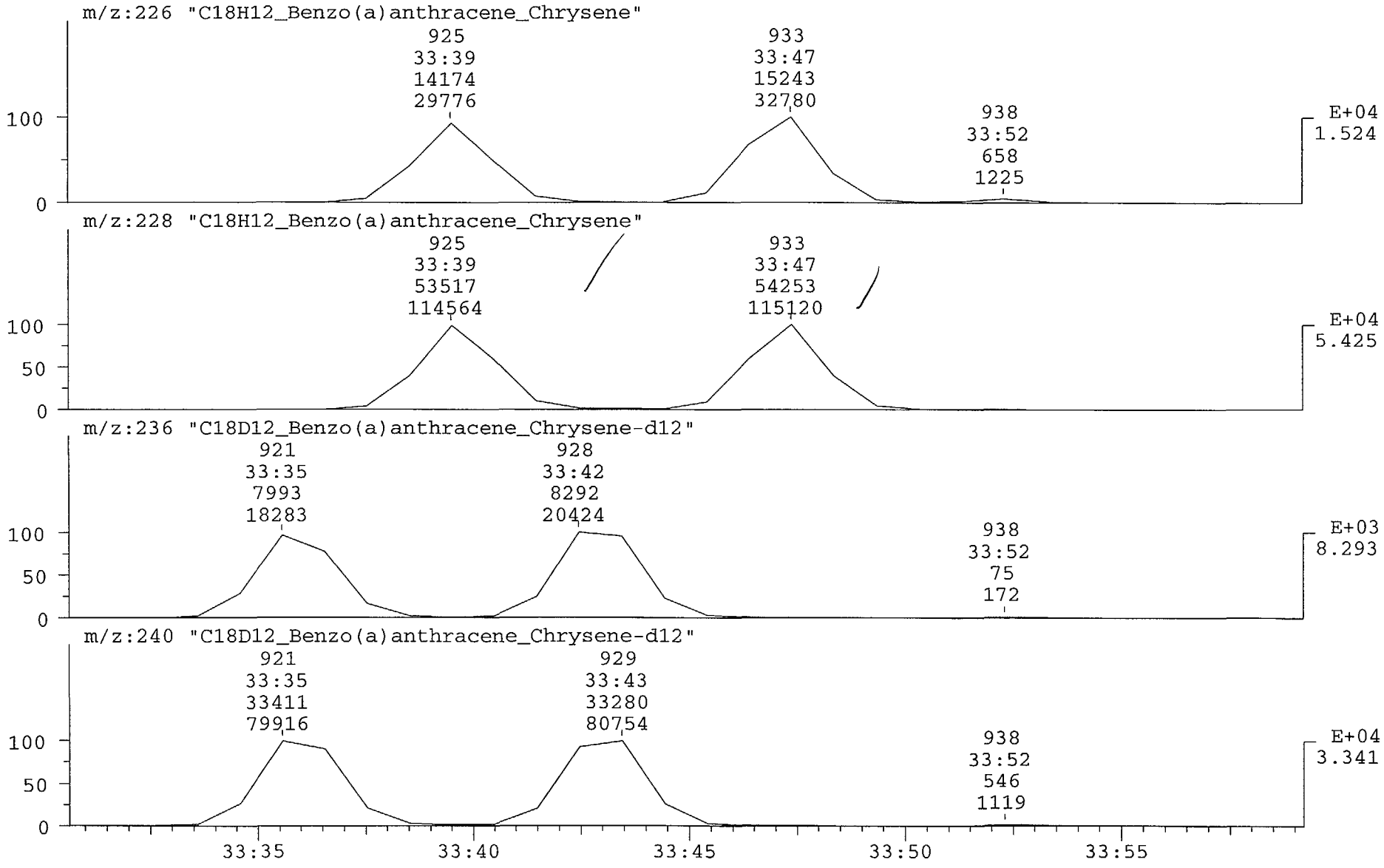
CHRO: yh2w5ql2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



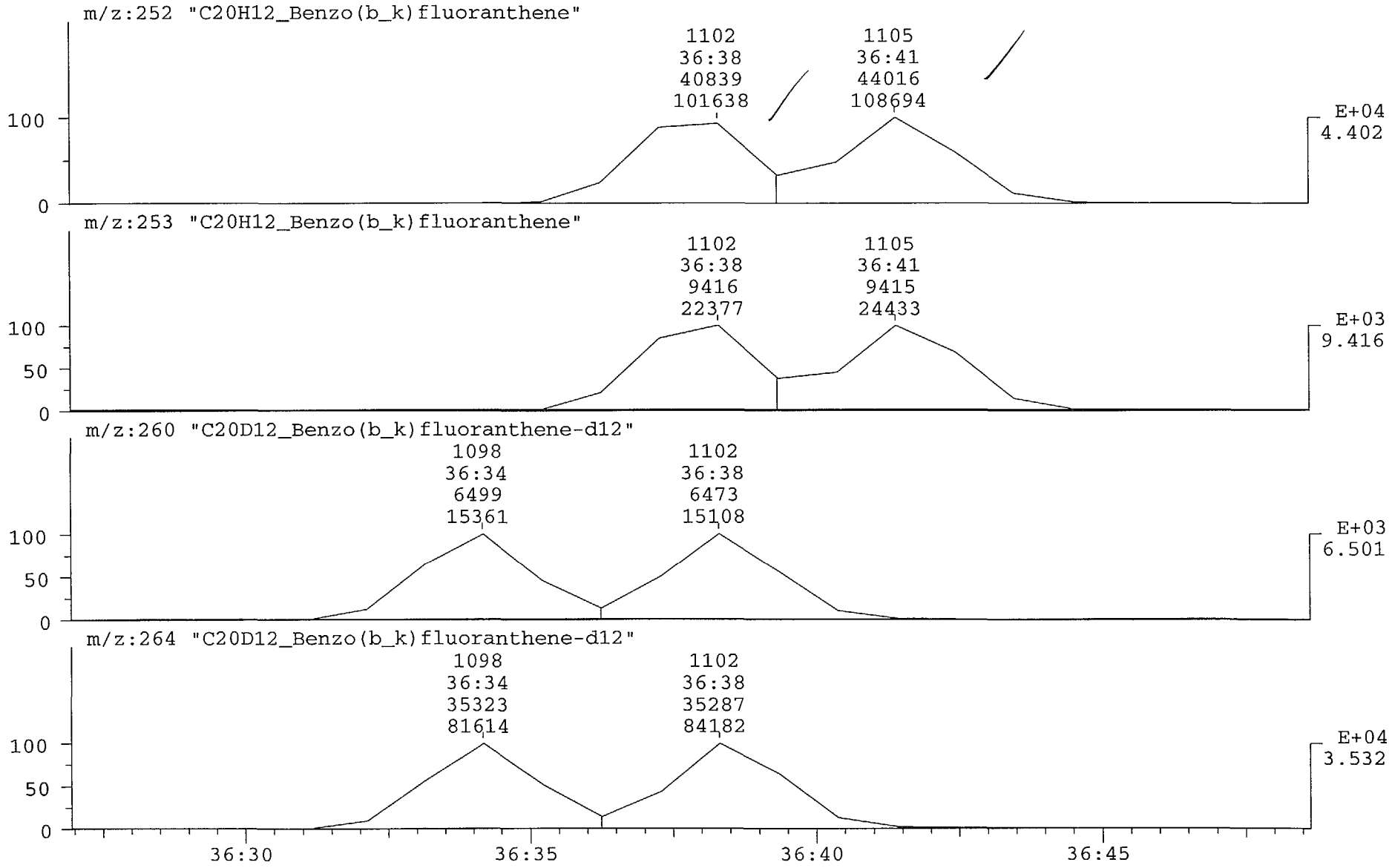
CHRO: yh2w5ql2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



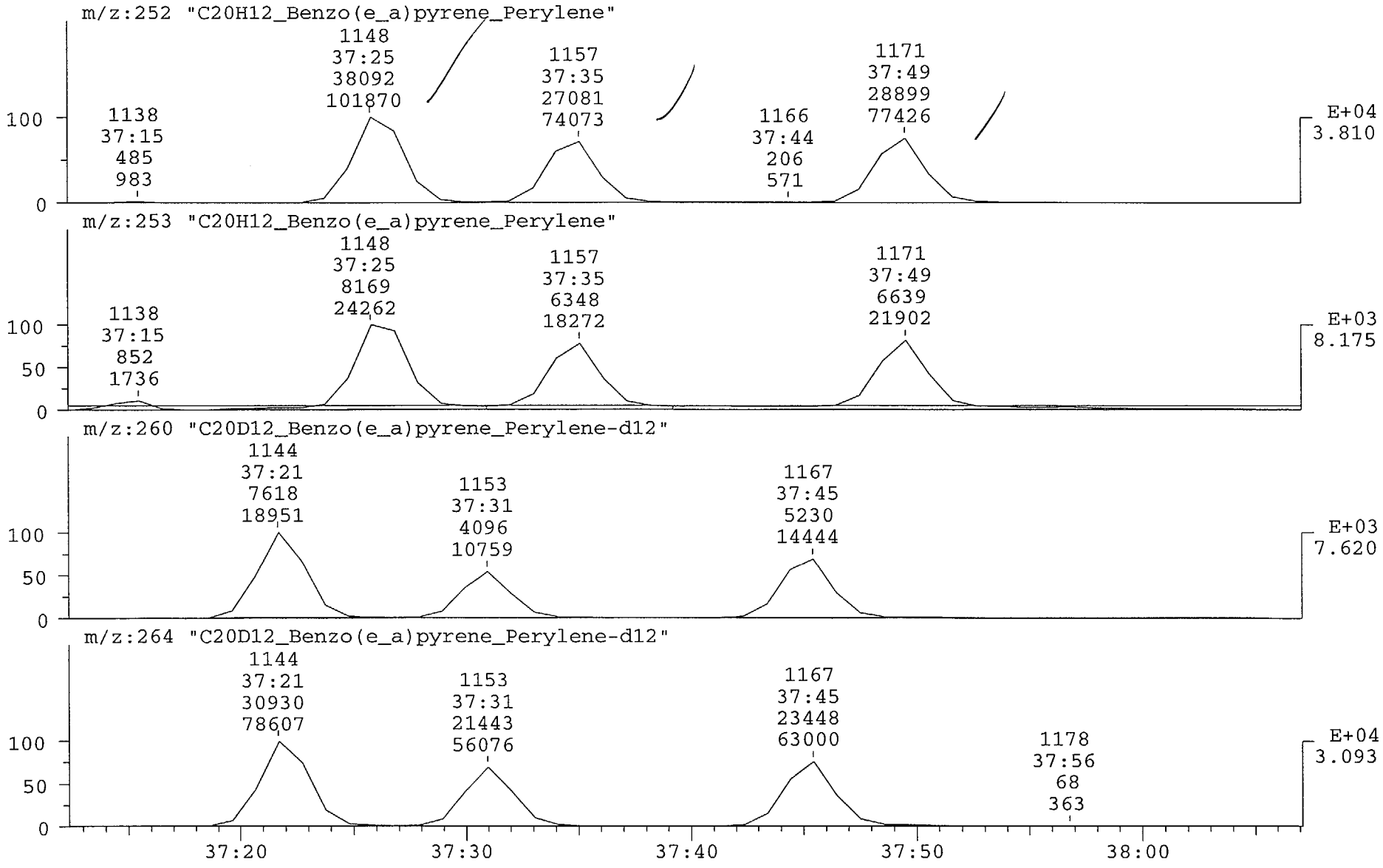
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



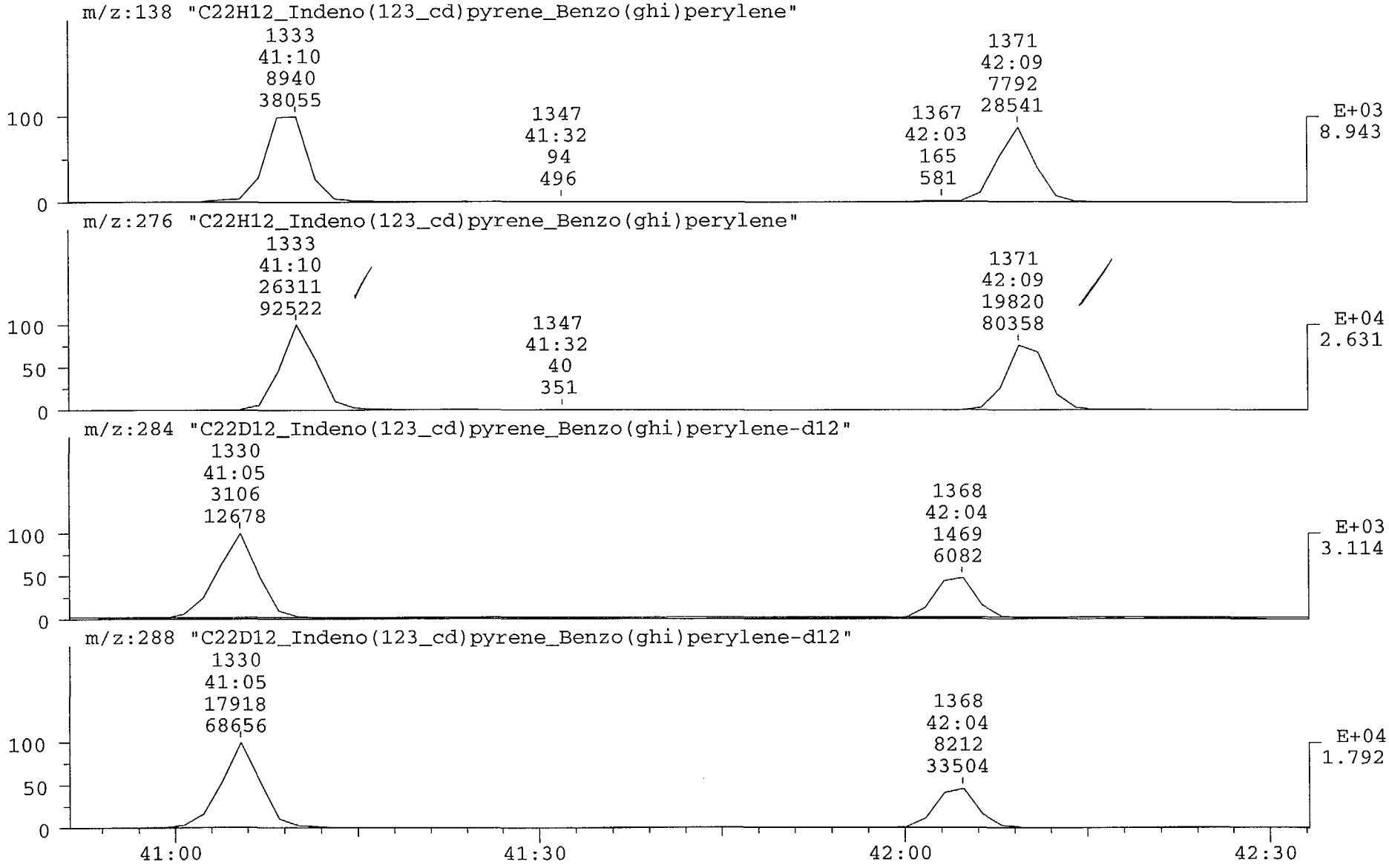
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 1091 > 1112 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



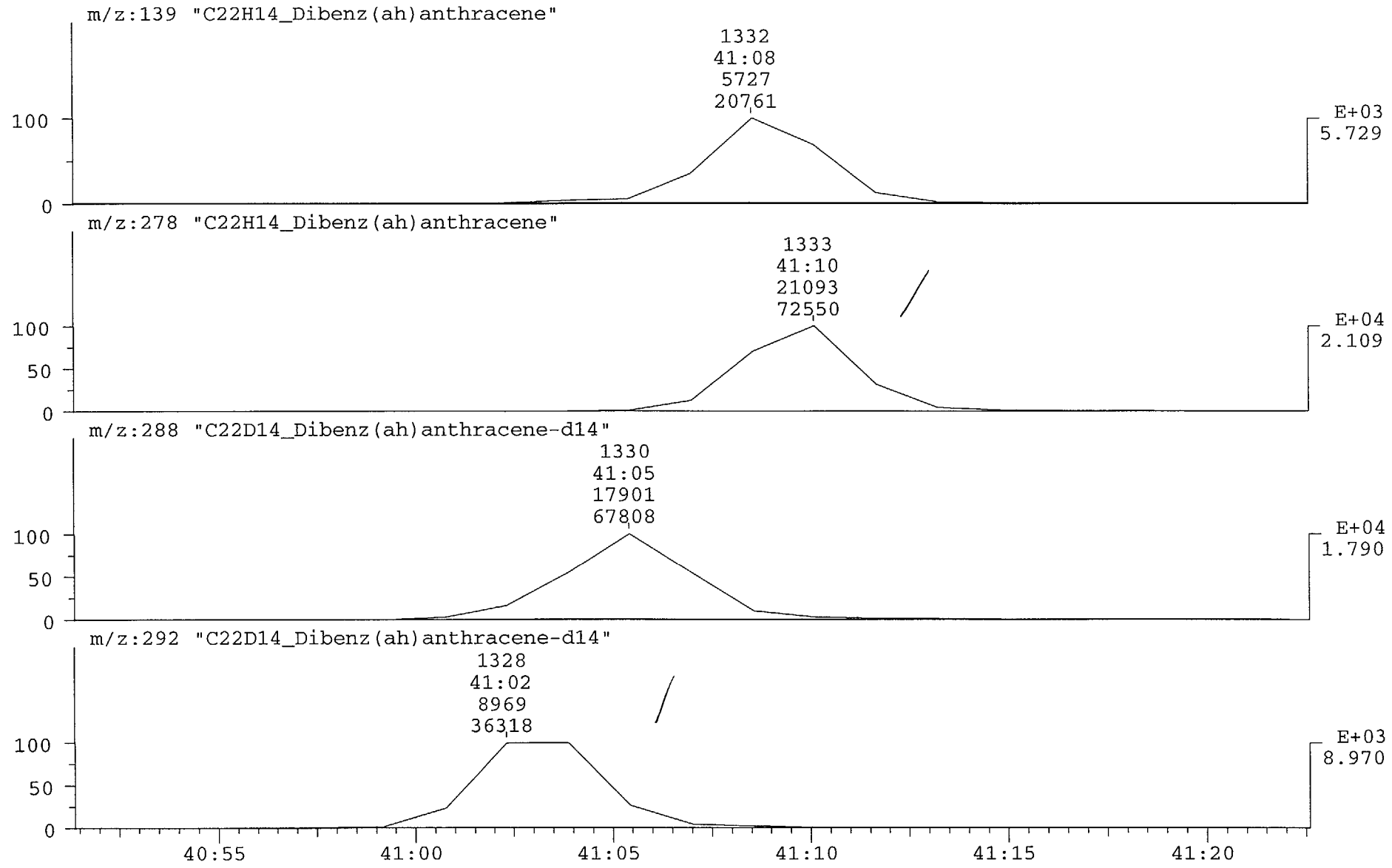
CHRO: yh2w5q12 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w5ql2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w5ql2 27-APR-06 Elapse: 40:59 1326
Samp: WO=h2w5q1ad Meth=YA1 Dil=1 Start : 17:54:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100060
Oper: JMN Client: H6D100000-060L Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1341 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2W5QL2.D
Date Acquired: 27 Apr 2006   5:54 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W5Q1AD
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  17
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Thu Apr 27 20:46:37 2006
d:\cdffiles\YH2W5QL2.CDF Translated at Thu Apr 27 20:46:37 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Thu Apr 27 15:12:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w5ql2.dat
NetCDF File (input): /usr/users/hp/data/yh2w5ql2.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Thu Apr 27 15:12:01 EDT 2006

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

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....: H6D100000 - 063B **Work Order #....:** H2W541AA **Matrix....:** AIR
Dilution Factor: 1
Prep Date....: 04/10/06 **Analysis Date....:** 04/18/06
Prep Batch # ....: 6100063
Initial Wgt/Vol : 1 Sample **Instrument ID....:** H2A **Method:** KNOX ID-0016
Analyst ID....: Jon M. Nordquist

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	ND		20	0.98	ng/sampl
Acenaphthylene	ND		20	0.26	ng/sampl
Anthracene	ND		20	0.28	ng/sampl
Benzo(a)anthracene	**2.3**	**J**	**20**	**0.34**	**ng/sampl**
Benzo(b)fluoranthene	ND		20	1.7	ng/sampl
Benzo(k)fluoranthene	ND		20	2.3	ng/sampl
Benzo(ghi)perylene	**6.0**	**J**	**20**	**0.75**	**ng/sampl**
Benzo(a)pyrene	**8.2**	**J**	**20**	**3.6**	**ng/sampl**
Benzo(e)pyrene	**8.4**	**J**	**20**	**3.0**	**ng/sampl**
Chrysene	**2.8**	**J**	**20**	**0.33**	**ng/sampl**
Dibenz(a,h)anthracene	ND		20	0.62	ng/sampl
Fluoranthene	**1.3**	**J**	**20**	**0.13**	**ng/sampl**
Fluorene	ND		20	0.28	ng/sampl
Indeno(1,2,3-cd)pyrene	**6.9**	**J**	**20**	**0.83**	**ng/sampl**
2-Methylnaphthalene	**8.6**	**J**	**20**	**0.57**	**ng/sampl**
Naphthalene	**22**	**J**	**20**	**0.47**	**ng/sampl**
Perylene	**8.3**	**J**	**20**	**3.1**	**ng/sampl**
Phenanthrene	**2.4**	**J**	**20**	**0.24**	**ng/sampl**
Pyrene	**1.5**	**J**	**20**	**0.12**	**ng/sampl**

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	73	15 - 120
2-Methylnaphthalene-d10	75	20 - 120
Acenaphthylene-d8	71	20 - 120
Phenanthrene-d10	84	30 - 120
Fluoranthene-d10	87	30 - 120
Benzo(a)anthracene-d12	79	30 - 120
Chrysene-d12	83	30 - 120
Benzo(b)fluoranthene-d12	89	30 - 120
Benzo(k)fluoranthene-d12	85	30 - 120
Benzo(a)pyrene-d12	69	30 - 120
Perylene-d12	72	30 - 120
Indeno(1,2,3-cd)pyrene-d12	77	30 - 120
Dibenz(ah)anthracene-d14	76	30 - 120
Benzo(ghi)perylene-d12	82	30 - 120

Method Blank Report

Trace Level Organic Compounds

Lot - Sample #....:	H6D100000 - 063B	**Work Order #....:**	H2W541AA	**Matrix....:**	AIR
Dilution Factor:	1				
Prep Date....:	04/10/06	**Analysis Date....:**	04/18/06		
Prep Batch # ....:	6100063				
Initial Wgt/Vol :	1 Sample	**Instrument ID....:**	H2A	**Method:**	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	66	30 - 140

QUALIFIERS

J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AA	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54b.d	Prep Date	04/10/06	SDG No	
Analysis ID	90142	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/18/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	22:37	Initial Wt/Vol	1	Lims Test Code	XXS09YA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	61532	17455	1.748	500.0	365.459323	73.09	365.459323		0.227
Naphthalene	16:01	3233	792	1.211		21.697213		21.697213	J	0.473
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene								ND		0.000000
2-Methylnaphthalene	18:03	872	342	1.269		8.624542		8.624542	J	0.574
2-Methylnaphthalene-d10	17:58	39850	15454	1.104	500.0	374.803254	74.96	374.803254		0.360
1-Methylnaphthalene	18:23	437	181	1.365		4.557637		4.557637	J	0.682
1-Methylnaphthalene-d10	18:18	35129	12083	0.958	500.0	380.555939	76.11	380.555939		0.415
1-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene								ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl				1.533				ND		0.739
2,6-Dimethylnaphthalene	19:56	367	125	1.249		4.007881		4.007881	J	1.76
2,6-Dimethylnaphthalene-d1	19:47	36646	15354	0.977	500.0	389.534513	77.91	389.534513		0.475
C2 Alkylnaphthalenes				1.249		4.007881		4.007881	J	1.55
Acenaphthylene				1.244				ND		0.256
Acenaphthylene-d8	20:46	52843	23529	1.548	500.0	354.375713	70.88	354.375713		0.171
Acenaphthene-d10	21:16	48157	18862	1.000	500.0	500.000000	100.00	500.000000		0.530
Acenaphthene				0.762				ND		0.976
2,3,5-Trimethylnaphthalene				1.127				ND		0.289
C3 Alkylnaphthalenes				1.127				ND		0.254
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene				0.915				ND		0.275
Phenanthrene-d10	25:43	65529	29767	0.753	500.0	420.155446	84.03	420.155446		0.144
Phenanthrene	25:47	381	175	1.216		2.390028		2.390028	J	0.242
Anthracene-d10	25:52	45076	16164	0.655	500.0	332.457503	66.49	332.457503		0.165
Anthracene				1.059				ND		0.278
1-Methylphenanthrene				0.870				ND		0.386
Fluoranthene-d10	29:21	65816	29238	0.727	500.0	437.481411	87.50	437.481411		0.223
Fluoranthene	29:24	228	97	1.334		1.298659		1.298659	J	0.128
Pyrene-d10	30:02	103531	46212	1.000	500.0	500.000000	100.00	500.000000		0.162
Pyrene	30:05	272	98	1.369		1.509609		1.509609	J	0.125
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:37	42857	17731	0.521	500.0	397.278233	79.46	397.278233		0.260
Benzo(a)anthracene	33:40	287	127	1.454		2.303354		2.303354	J	0.339
Chrysene-d12	33:44	47601	19295	0.557	500.0	412.927558	82.59	412.927558		0.243
Chrysene	33:48	358	158	1.363		2.759003		2.759003	J	0.333
Benzo(b)Fluoranthene-d12	36:35	43328	19199	0.847	500.0	447.037182	89.41	447.037182		0.740
Benzo(k)Fluoranthene-d12	36:39	48770	18735	1.002	500.0	425.202883	85.04	425.202883		0.625
Benzo(b)fluoranthene				1.508				ND		1.73
Benzo(k)fluoranthene				1.136				ND		2.35
Benzo(e)pyrene-d12	37:22	57208	19947	1.000	500.0	500.000000	100.00	500.000000		0.627
Benzo(e)pyrene	37:27	779	264	1.589		8.434737		8.434737	J	2.99
Benzo(a)Pyrene-d12	37:32	29070	10514	0.737	500.0	344.781231	68.96	344.781231		0.850
Benzo(a)pyrene	37:36	633	214	1.333		8.169663		8.169663	J	3.57
Perylene-d12	37:46	36570	13533	0.887	500.0	360.536278	72.11	360.536278		0.707
Perylene	37:50	718	210	1.178		8.335667		8.335667	J	3.14
3-Methylcholanthrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AA	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54b.d	Prep Date	04/10/06	SDG No	
Analysis ID	90142	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/18/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	22:37	Initial Wt/Vol	1	Lims Test Code	XXS09YA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	17489	4858	0.405	500.0	377.798903	75.56	377.798903		0.774
Indeno(1,2,3-cd)pyrene-d12	41:07	34293	8160	0.779	500.0	384.737327	76.95	384.737327		0.483
Indeno(1,2,3-cd)pyrene	41:11	618	129	1.297		6.948359		6.948359	J	0.827
Dibenz(a,h)anthracene				2.059				ND		0.625
Benzo(ghi)Perylene-d12	42:06	26109	6901	0.559	500.0	408.015490	81.60	408.015490		0.672
Benzo(ghi)perylene	42:12	532	131	1.698		5.999492		5.999492	J	0.747
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene								ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AA	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54b.d	Prep Date	04/10/06	SDG No	
Analysis ID	90142	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/18/06 22:37	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXS09YA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	20		8				
	Naphthalene	16:01	16:01	0	3233	✓	792			ABB	
136					136.0000		136.0000				
	Noise	00:00	00:00	0	15		6				
	Naphthalene-d8	15:58	15:57	1	61532	✓	17455			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	23		9				
	2-Methylnaphthalene	18:03	18:03	0	872	✓	342			ABB	
	1-Methylnaphthalene	18:23	18:23	0	437	✓	181			ABB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	17:58	0	39850	✓	15454			ABV	
	1-Methylnaphthalene-d10	18:18	18:17	1	35129	✓	12083			AVB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	35		14				
156					156.0000		156.0000				
	Noise	00:00	00:00	0	68		27				
	2,6-Dimethylnaphthalene	19:56	19:55	1	367	✓	125			MBB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:46	20:47	-1	52843	✓	23529			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	10		4				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	20		8				
	Acenaphthene-d10	21:16	21:16	0	48157	✓	18862			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	15		6				
168					168.0000		168.0000				
	Noise	00:00	00:00	0	18		7				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	36646	✓	15354			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	15		6				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	10		4				
172					172.0000		172.0000				
	Noise	00:00	00:00	0	5		2				
176					176.0000		176.0000				
	Noise	00:00	00:00	0	13		5				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene	25:47	25:48	-1	381	✓	175			MBB	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AA	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54b.d	Prep Date	04/10/06	SDG No	
Analysis ID	90142	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/18/06 22:37	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXS09YA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
188					188.0000		188.0000				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene-d10	25:43	25:44	-1	65529		29767			ABV	
	Anthracene-d10	25:52	25:52	0	45076		16164			AVB	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	20		8				
202					202.0000		202.0000				
	Noise	00:00	00:00	0	10		4				
	Fluoranthene	29:24	29:24	0	228		97			MVB	
	Pyrene	30:05	30:05	0	272		98			MVB	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene-d10	29:21	29:21	0	65816		29238			ABV	
	Pyrene-d10	30:02	30:02	0	103531		46212			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)anthracene	33:40	33:40	0	287		127			MBV	
	Chrysene	33:48	33:48	0	358		158			MVB	
240					240.0000		240.0000				
	Noise	00:00	00:00	0	13		5				
	Benzo(a)Anthracene-d12	33:37	33:36	1	42857		17731			ABV	
	Chrysene-d12	33:44	33:44	0	47601		19295			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	3		1				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	100		40				
	Benzo(e)pyrene	37:27	37:27	0	779		264			MBV	
	Benzo(a)pyrene	37:36	37:36	0	633		214			MVV	
	Perylene	37:50	37:50	0	718		210			MVB	
264					264.0000		264.0000				
	Noise	00:00	00:00	0	25		10				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	43328		19199			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	48770		18735			AVB	
	Benzo(e)pyrene-d12	37:22	37:23	-1	57208		19947			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	29070		10514			AVV	
	Perylene-d12	37:46	37:46	0	36570		13533			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	58		23				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene	41:11	41:12	-1	618		129			MBB	
	Benzo(ghi)perylene	42:12	42:13	-1	532		131			MBB	
278					278.0000		278.0000				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

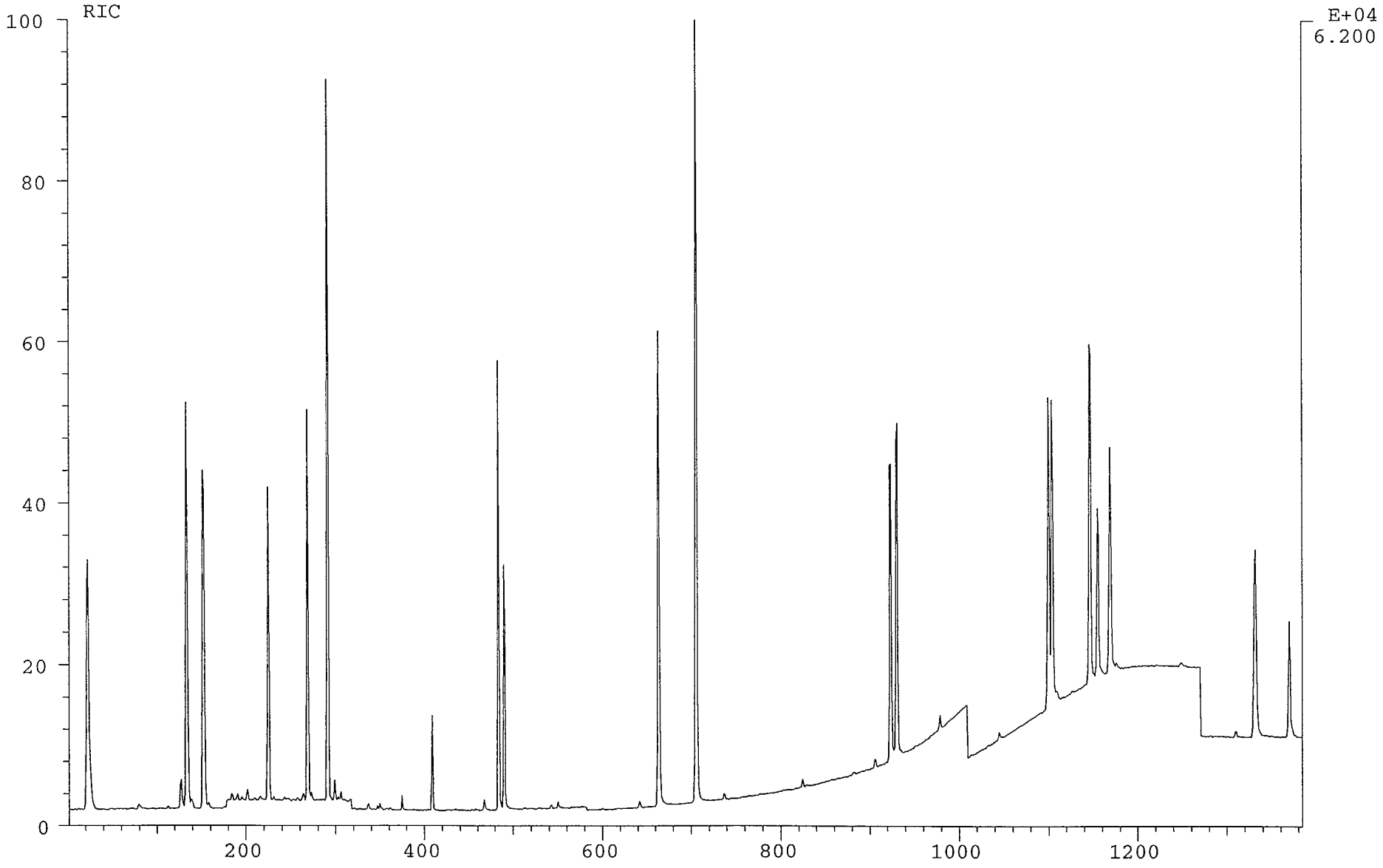
Workorder	H2W541AA	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54b.d	Prep Date	04/10/06	SDG No	
Analysis ID	90142	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/18/06 22:37	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXS09YA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1
		View Small Peaks?	False	View deleted peaks?	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
278					278.0000		278.0000				
	Noise	00:00	00:00	0	13		5				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	34293	/	8160			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	26109	/	6901			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	13		5				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	17489	/	4858			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	8		3				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	8		3				

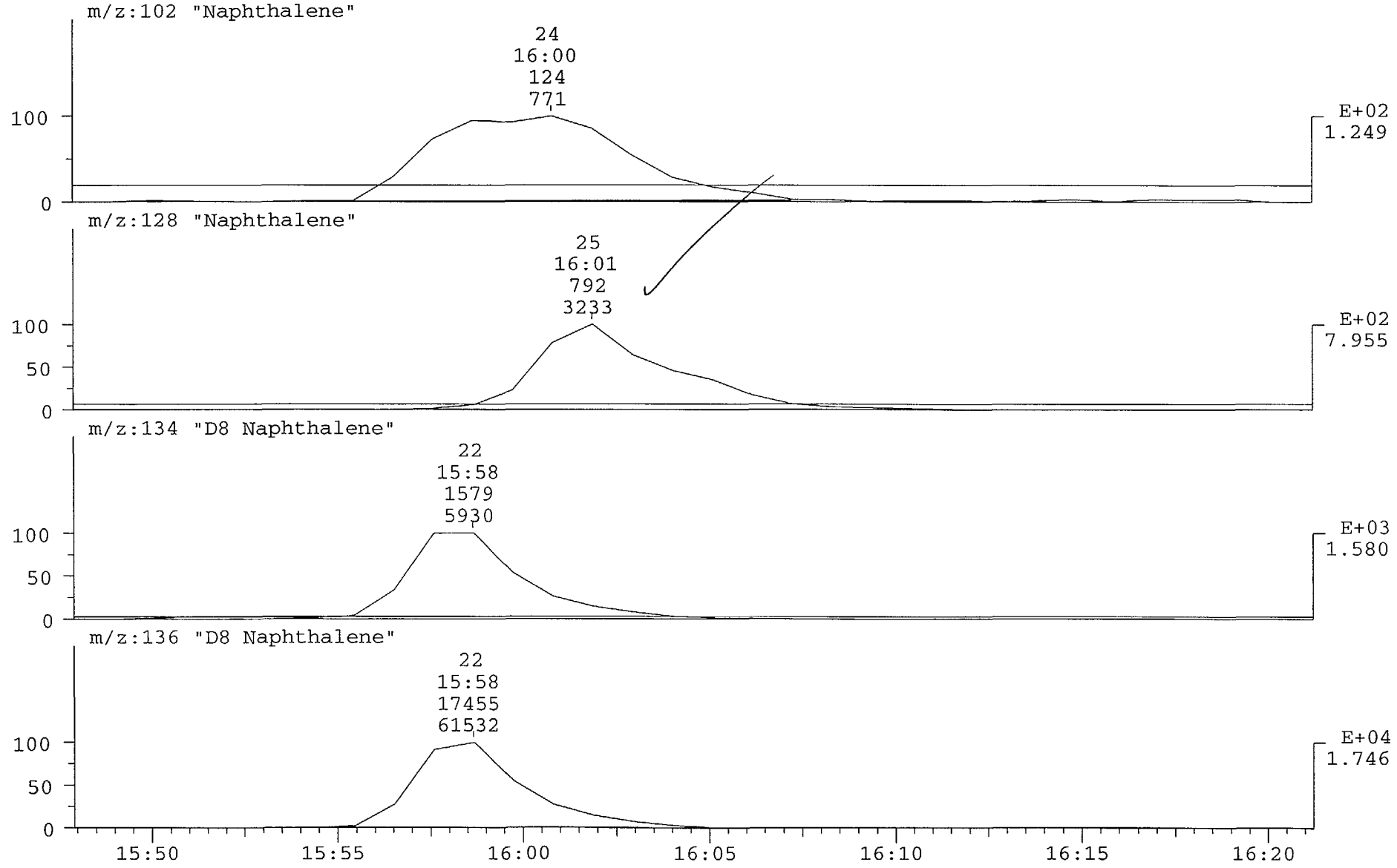
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int/Calc: J 4/12/06
QC Rev VMIC 4/25/06

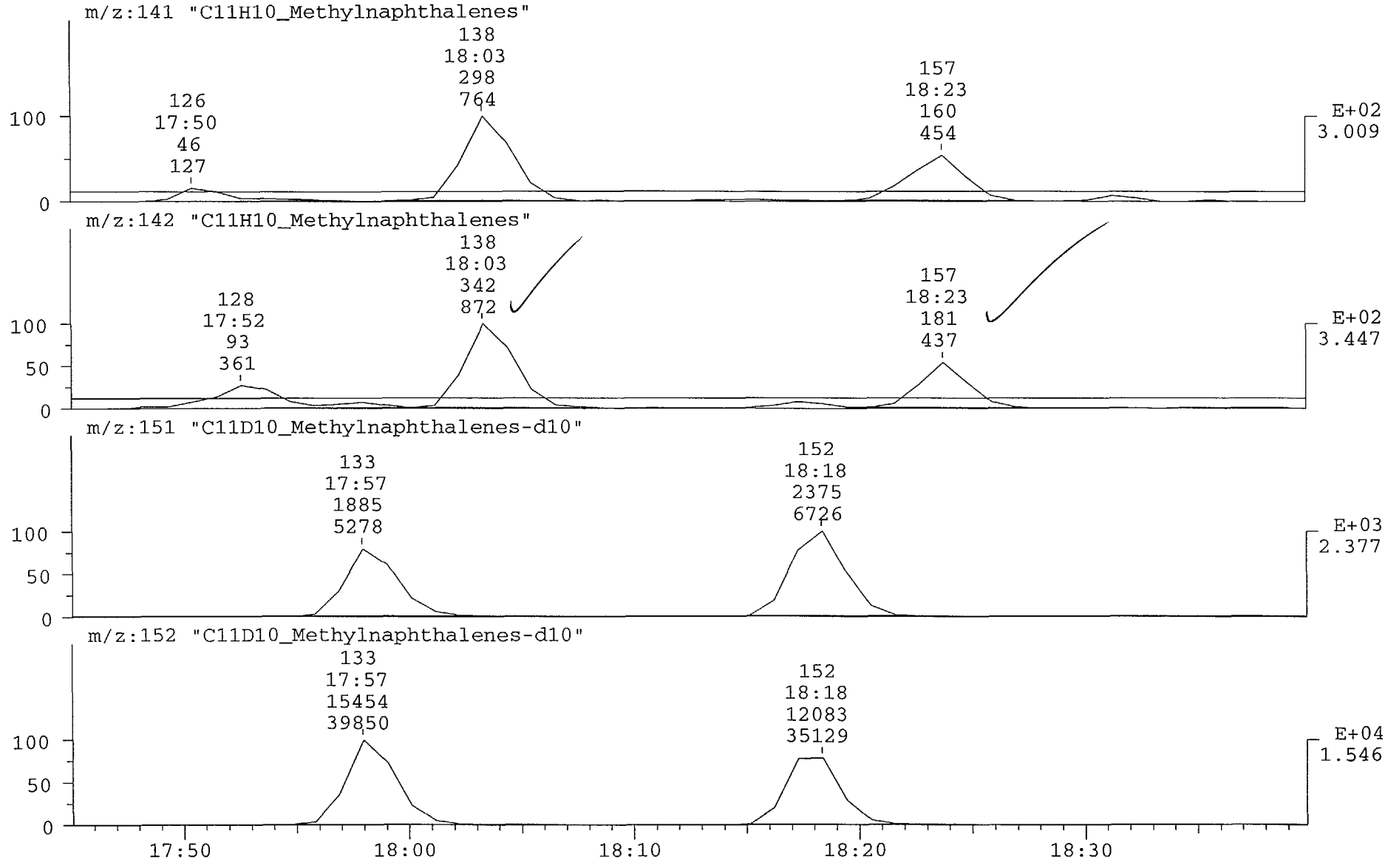
```
CHRO:  yh2w54b                                  18-APR-06   Elapse:  41:00      1327
Samp:  WO=h2w541aa Meth=YA1 Dil=1                           Start :  22:37:00   1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                     Study :  6100063
Oper:  JMN            Client:  H6D100000-063B               Inlet :
Peak:  100.00  ppm      Label wndw:   1 > 1384              Masses:  0 > 308
Area:  5, 0.50, 0       Baseline  :   100, 3                Label :  0, 0.0
Disp:  Height  Area
```



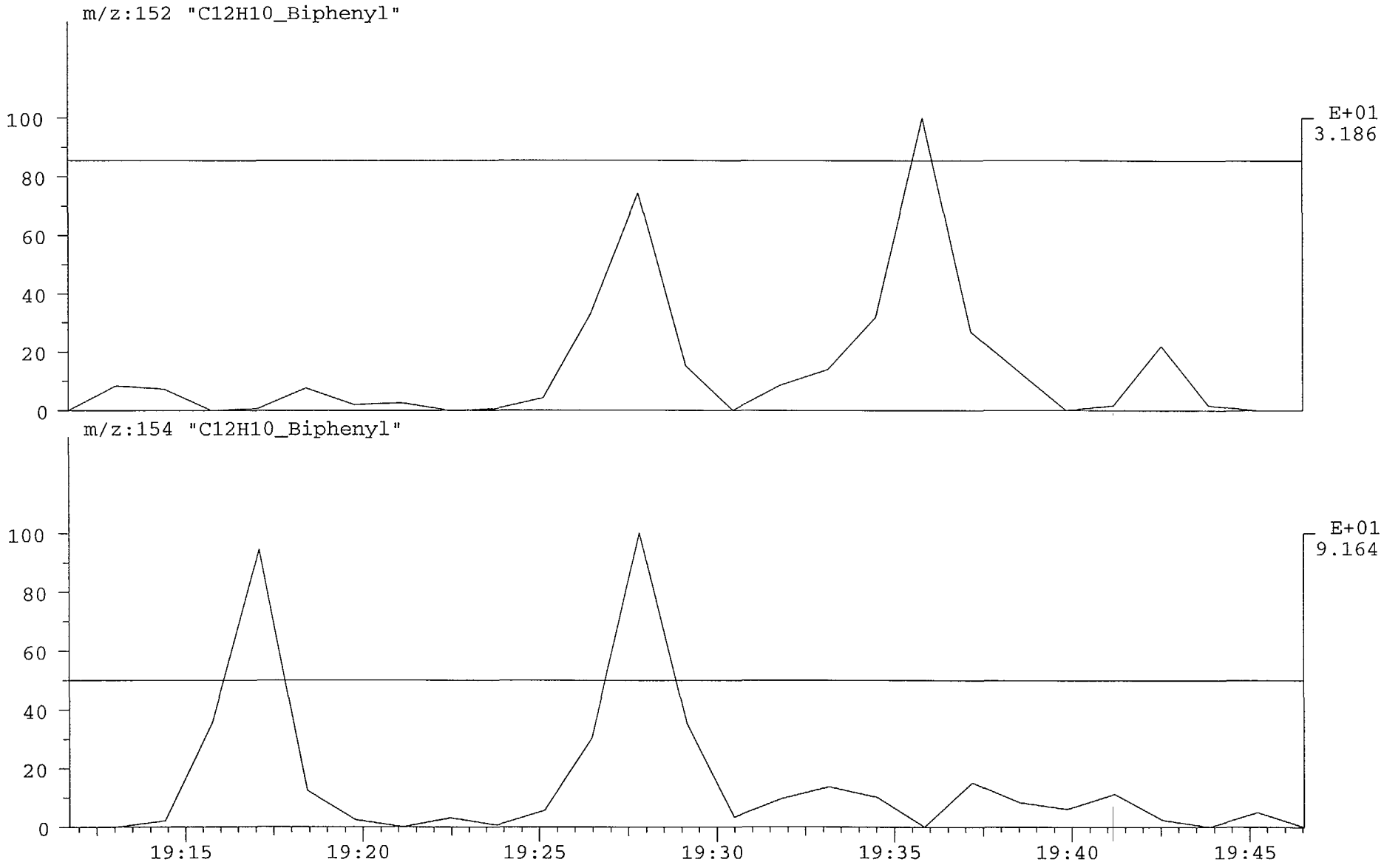
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



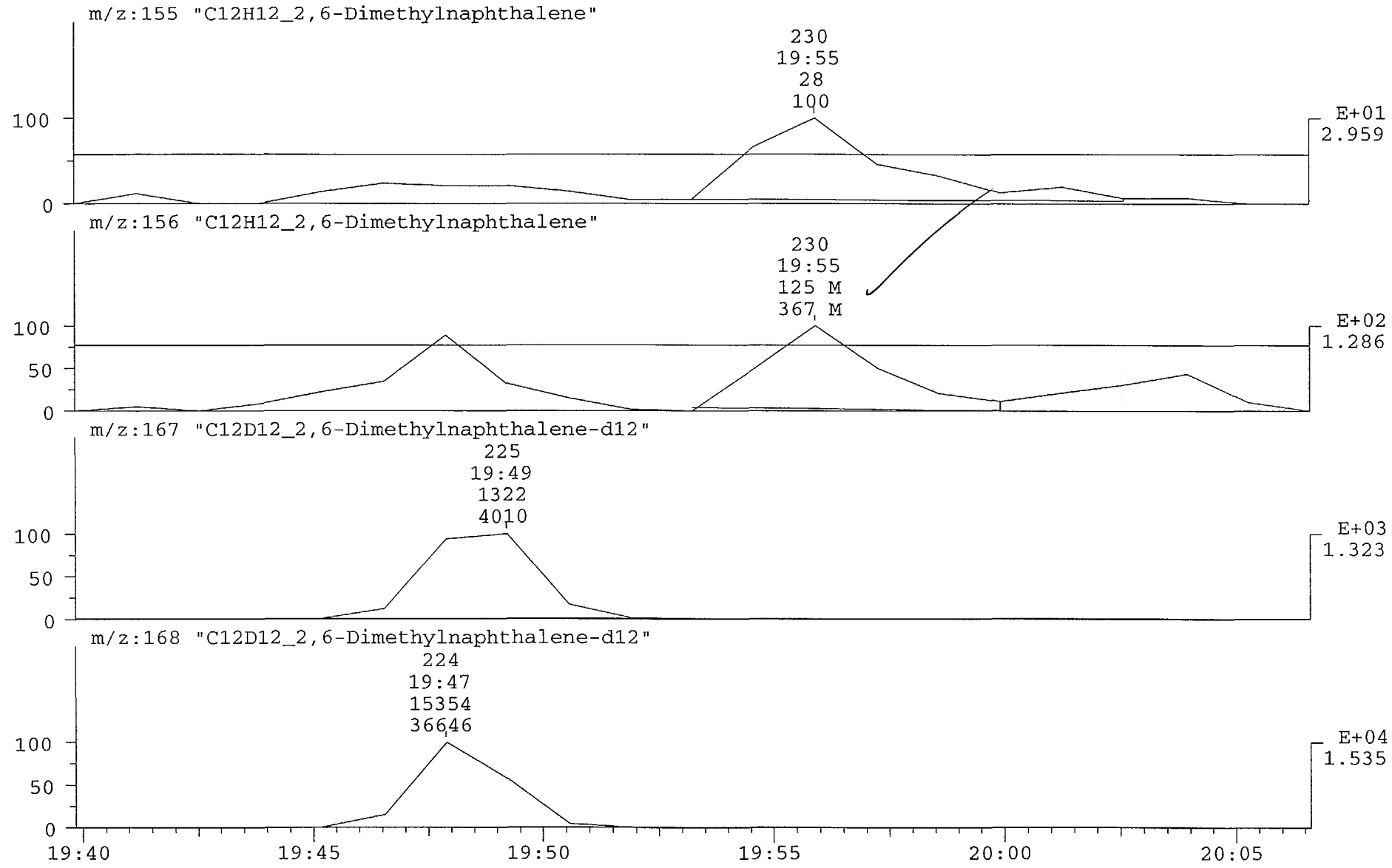
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



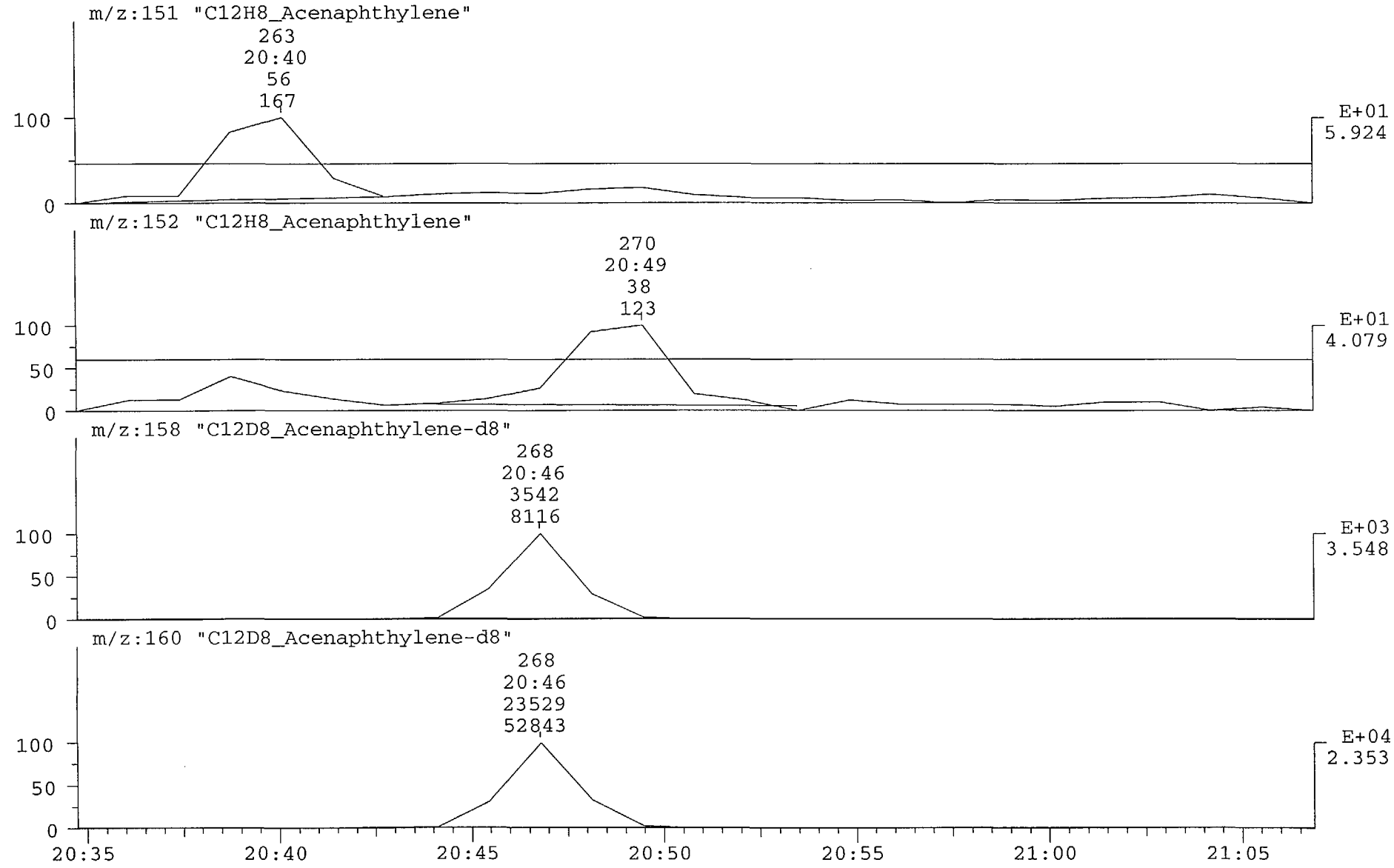
```
CHRO:  yh2w54b                                18-APR-06   Elapse:   42:06      1369
Samp:  WO=h2w541aa Meth=YA1 Dil=1                         Start :   22:37:00   1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                  Study :   6100063
Oper:  JMN           Client:  H6D100000-063B             Inlet :
Peak:  100.00  ppm     Label wndw:   197 > 223           Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3             Label :   -2, 3.0
Disp:  Height  Area
```



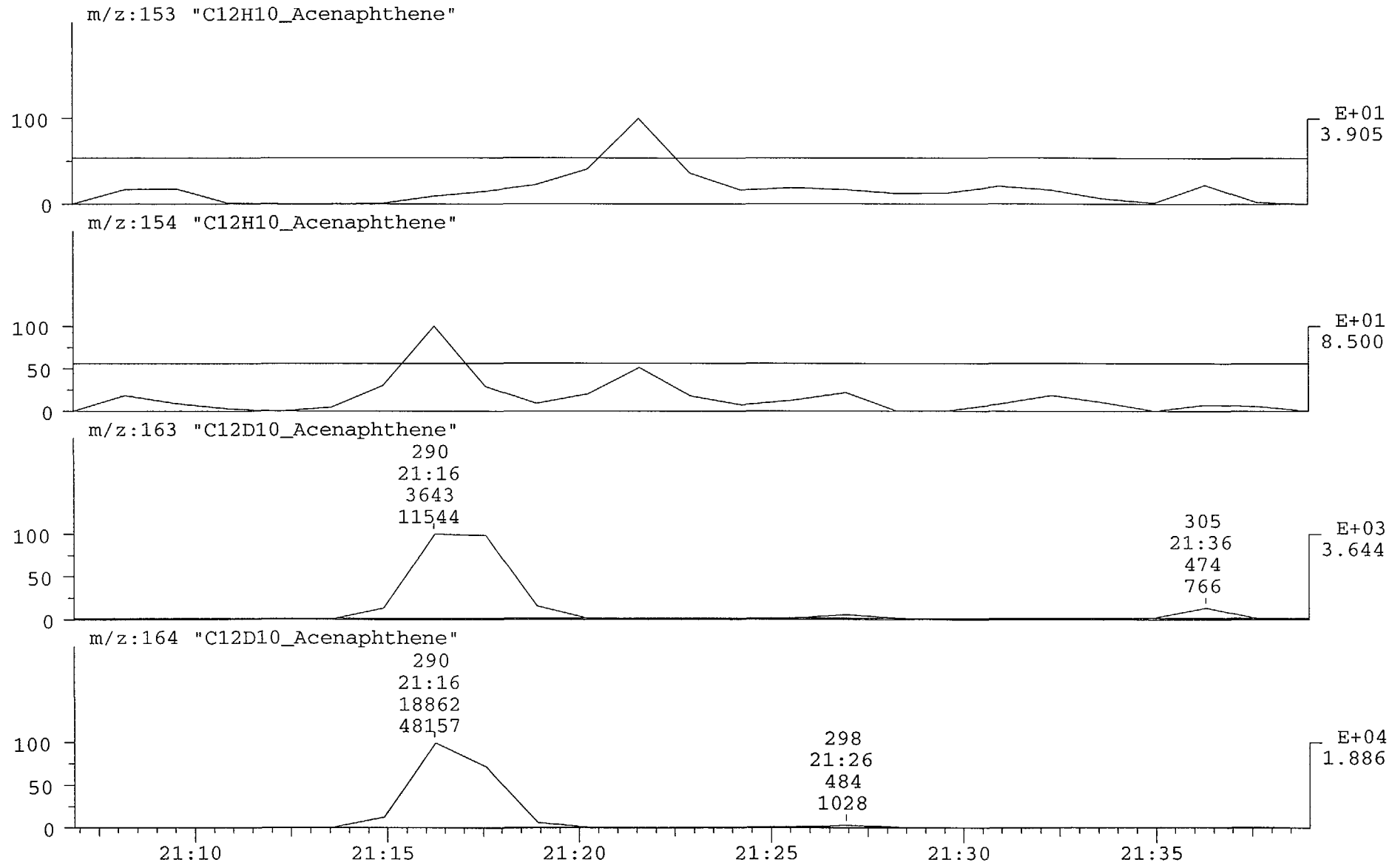
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



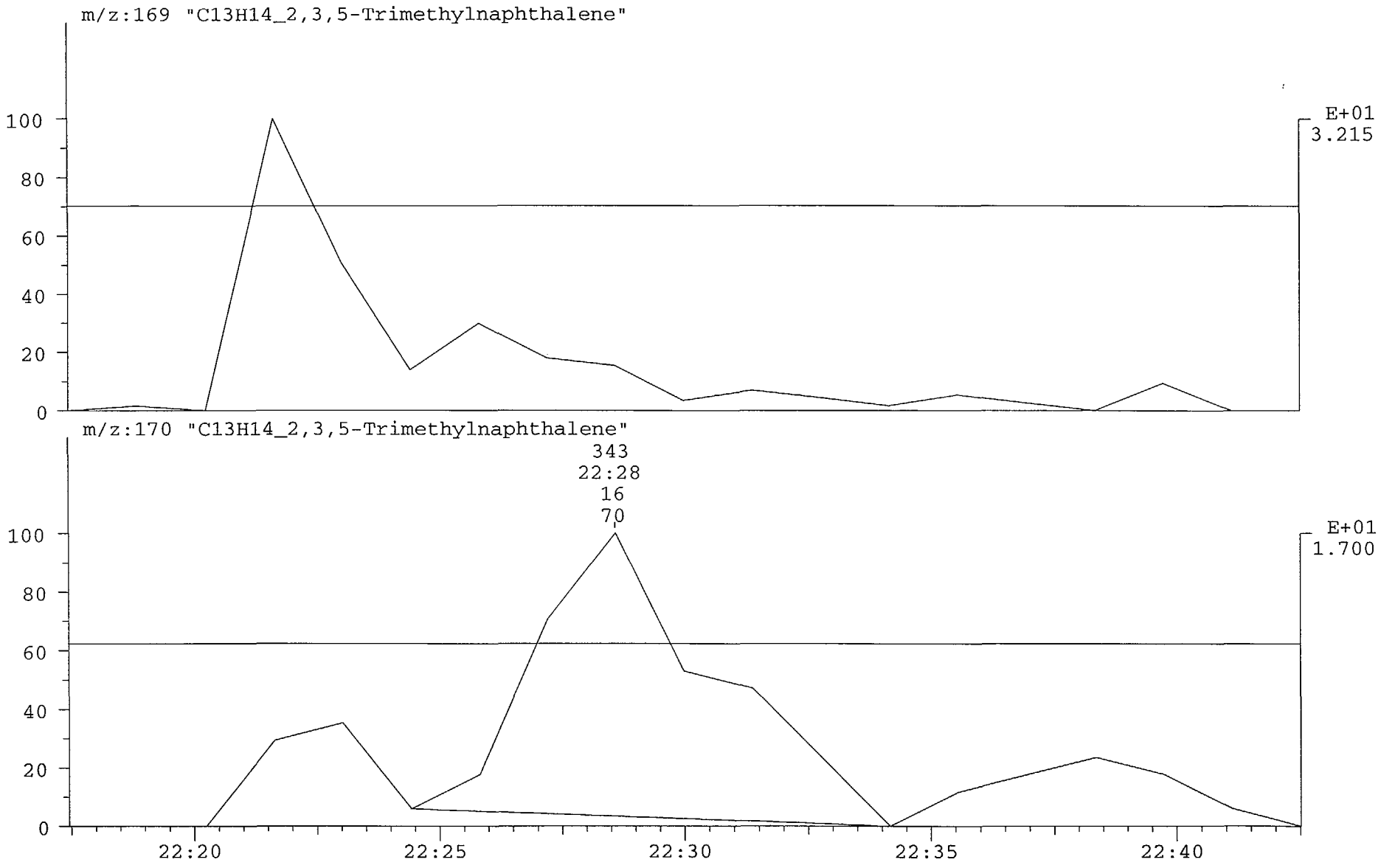
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



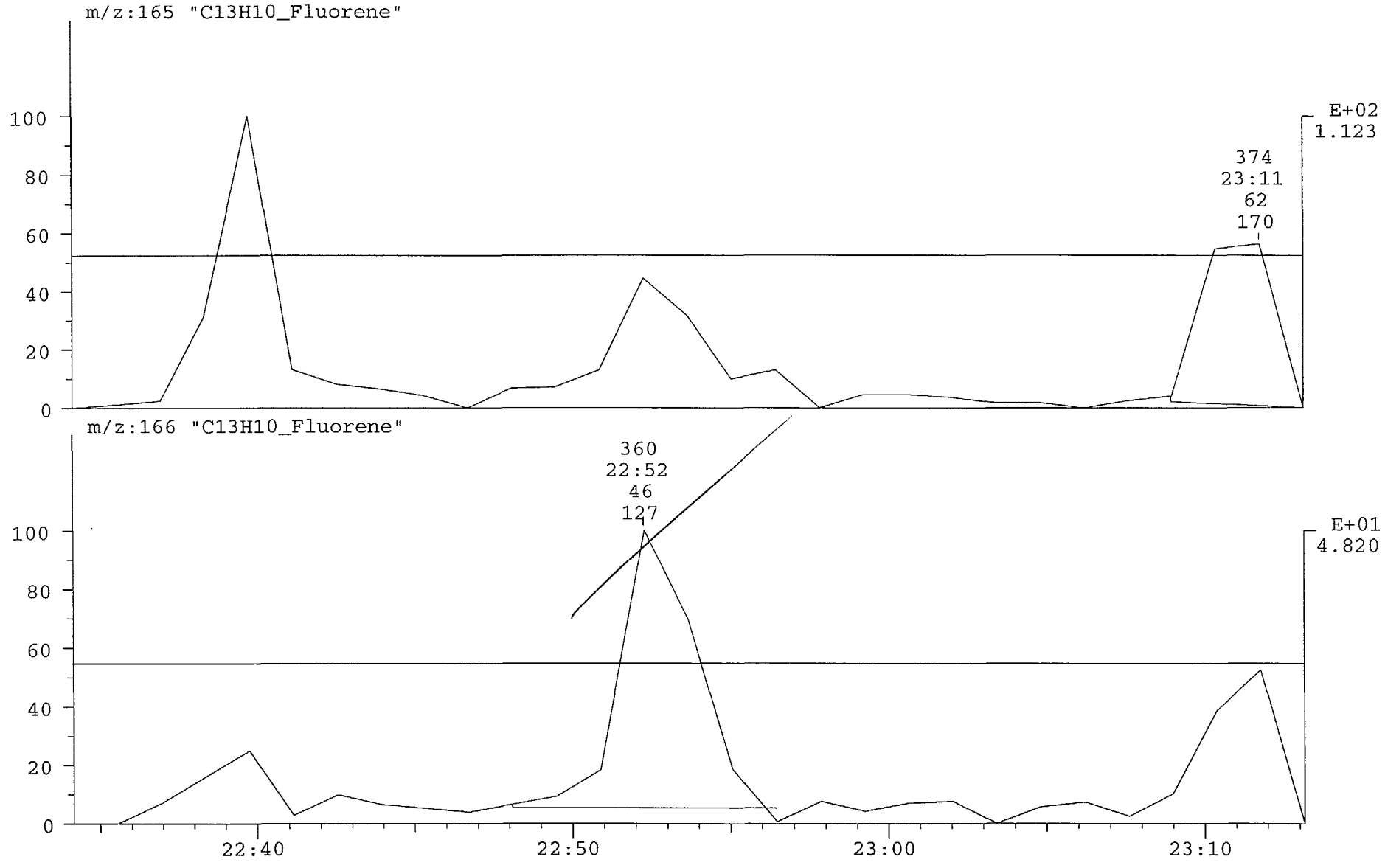
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



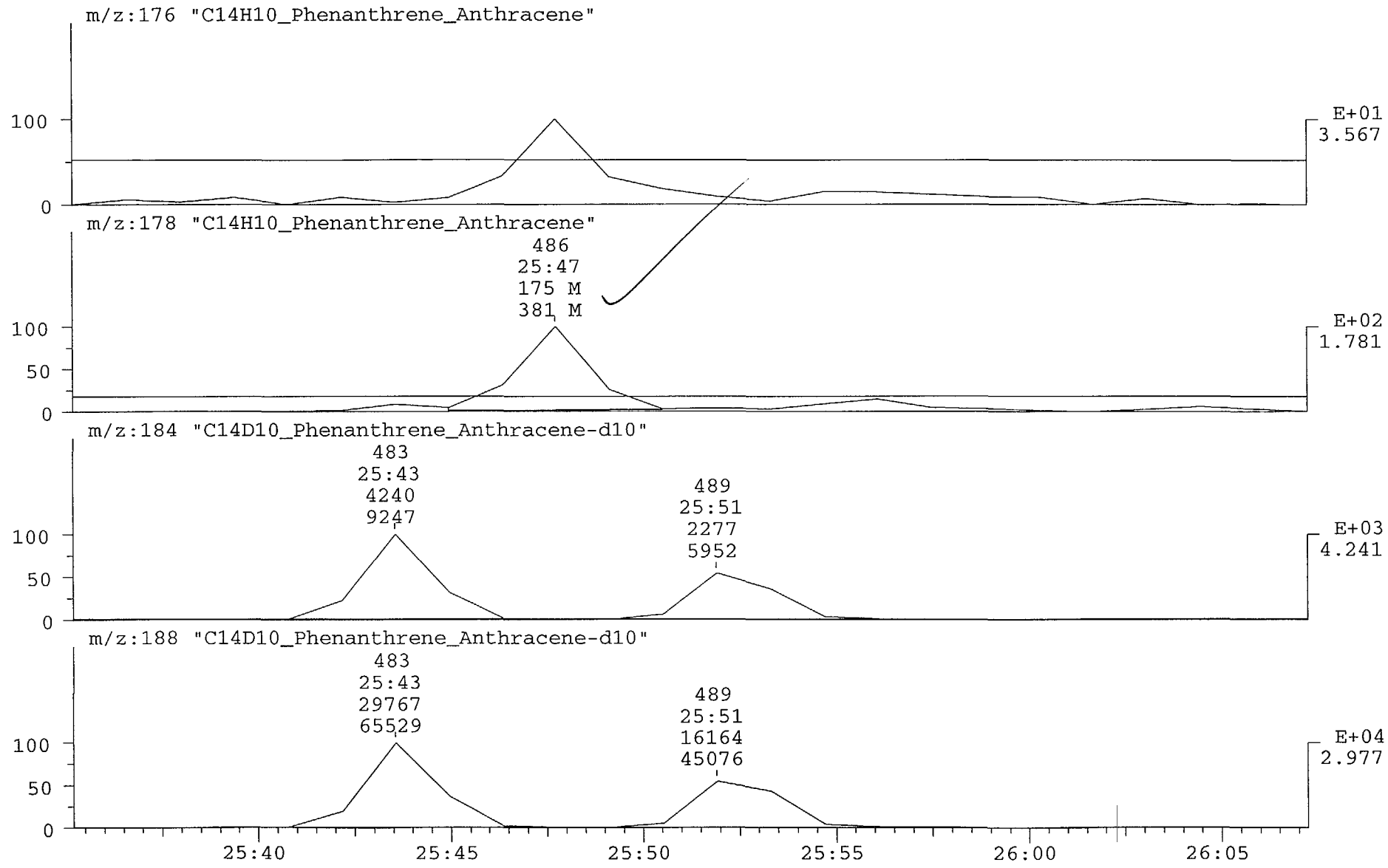
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



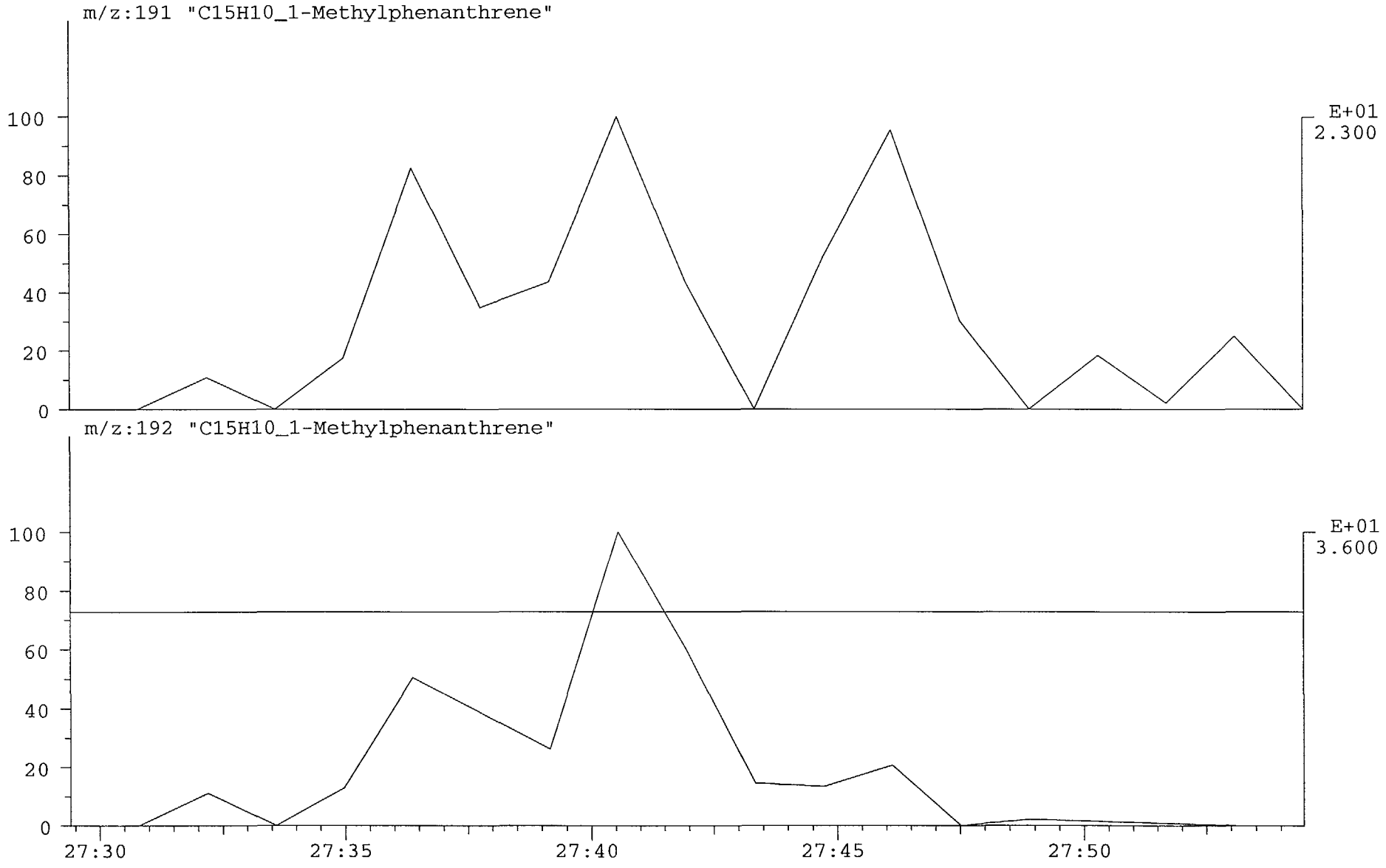
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



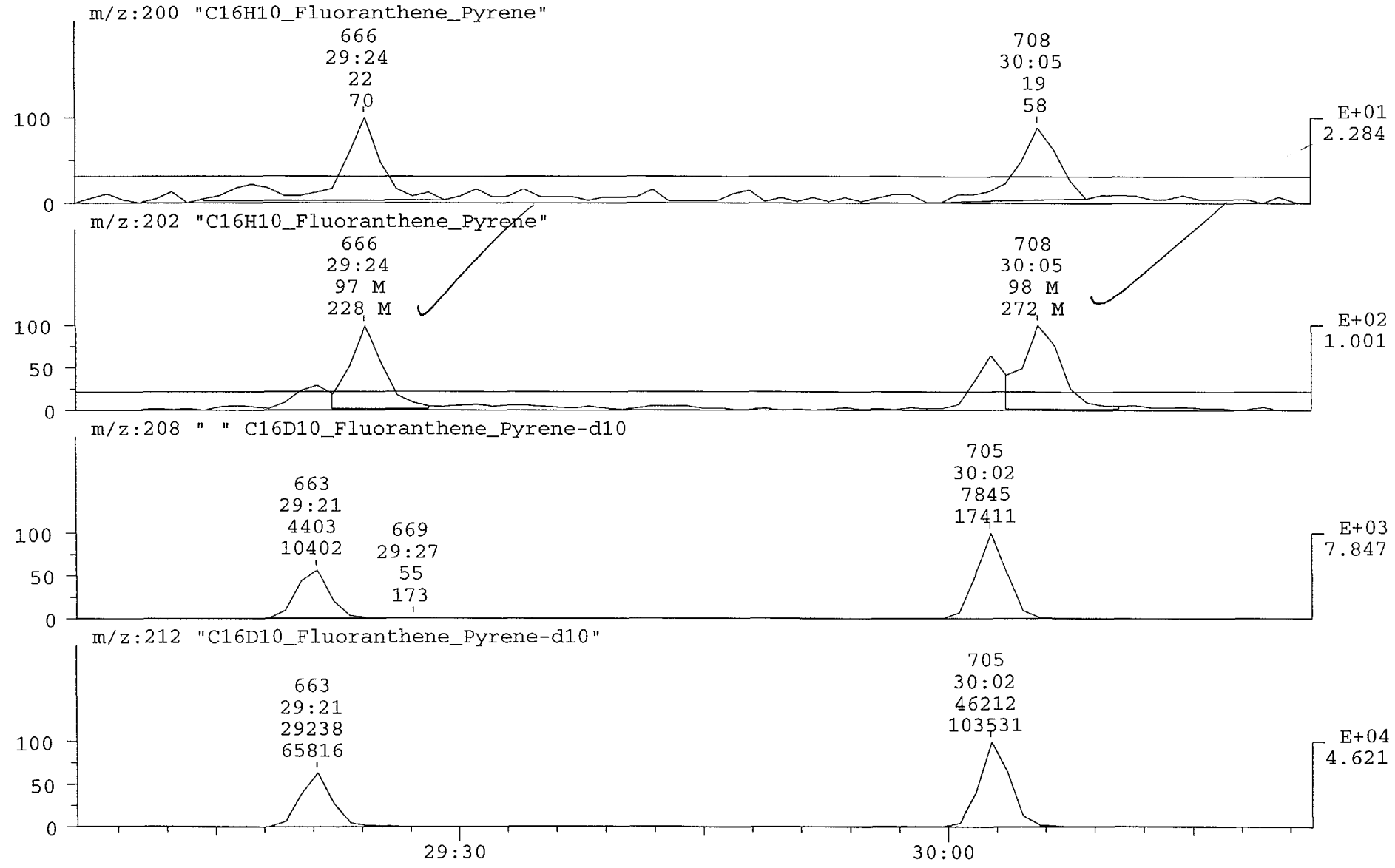
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



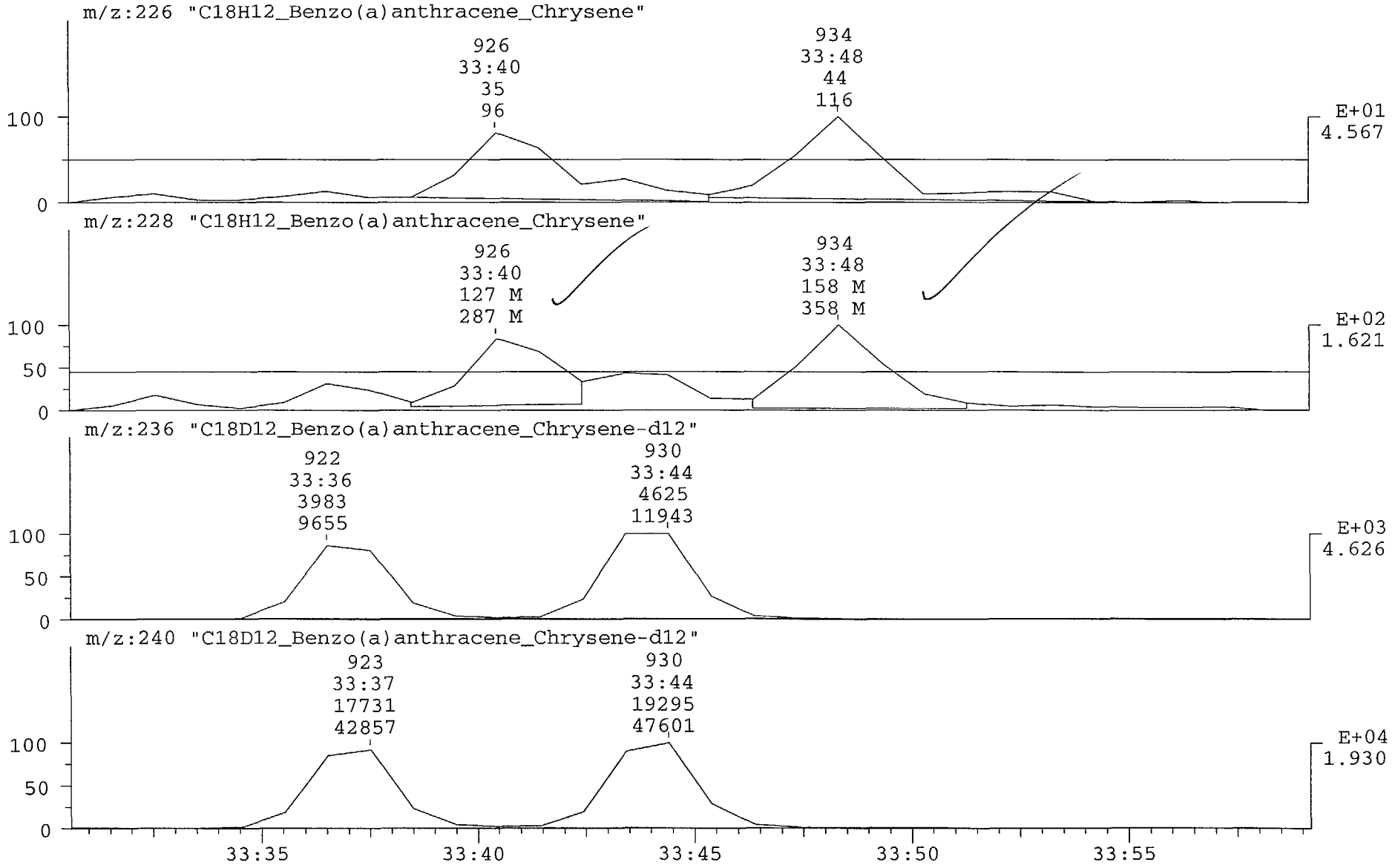
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



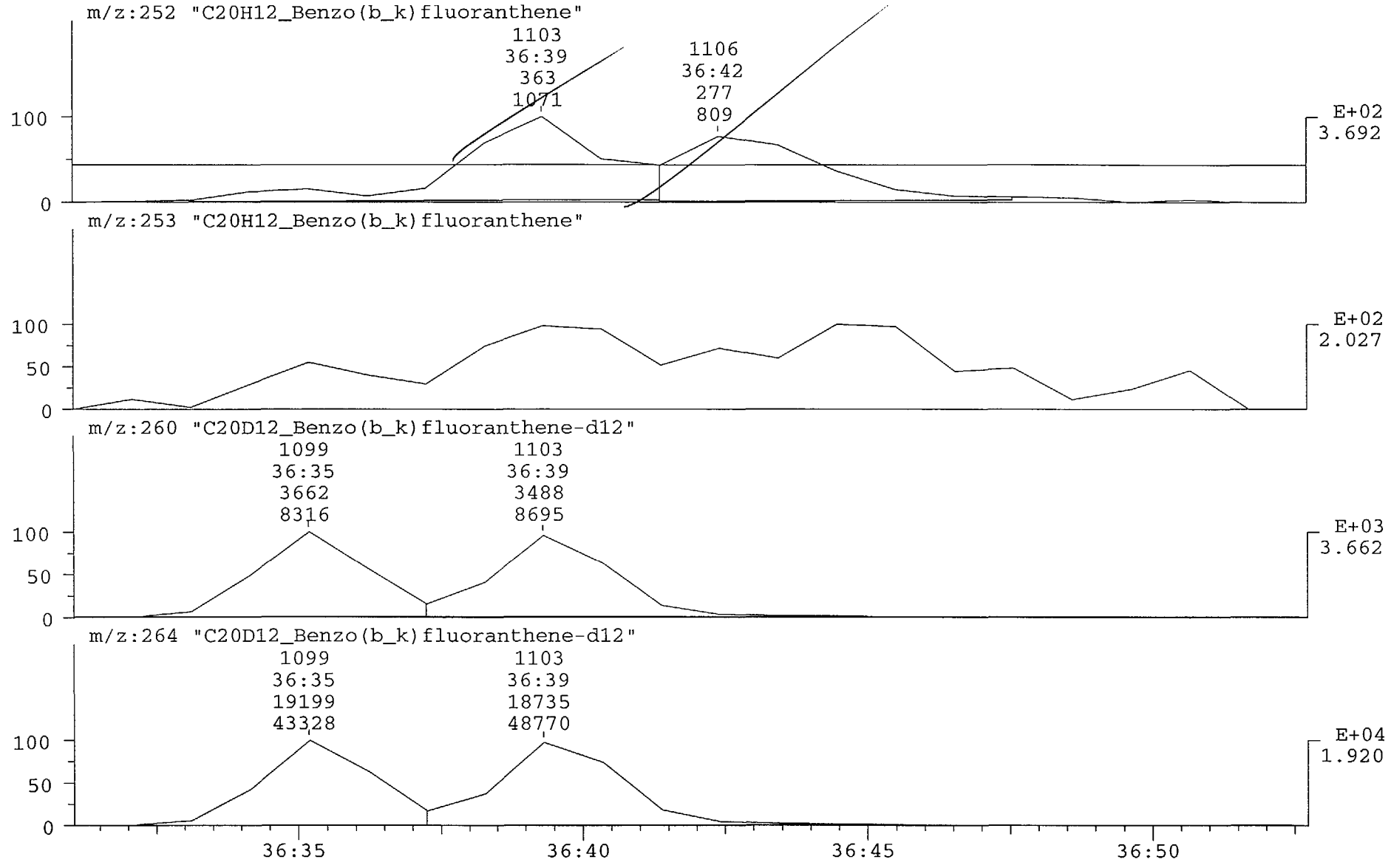
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



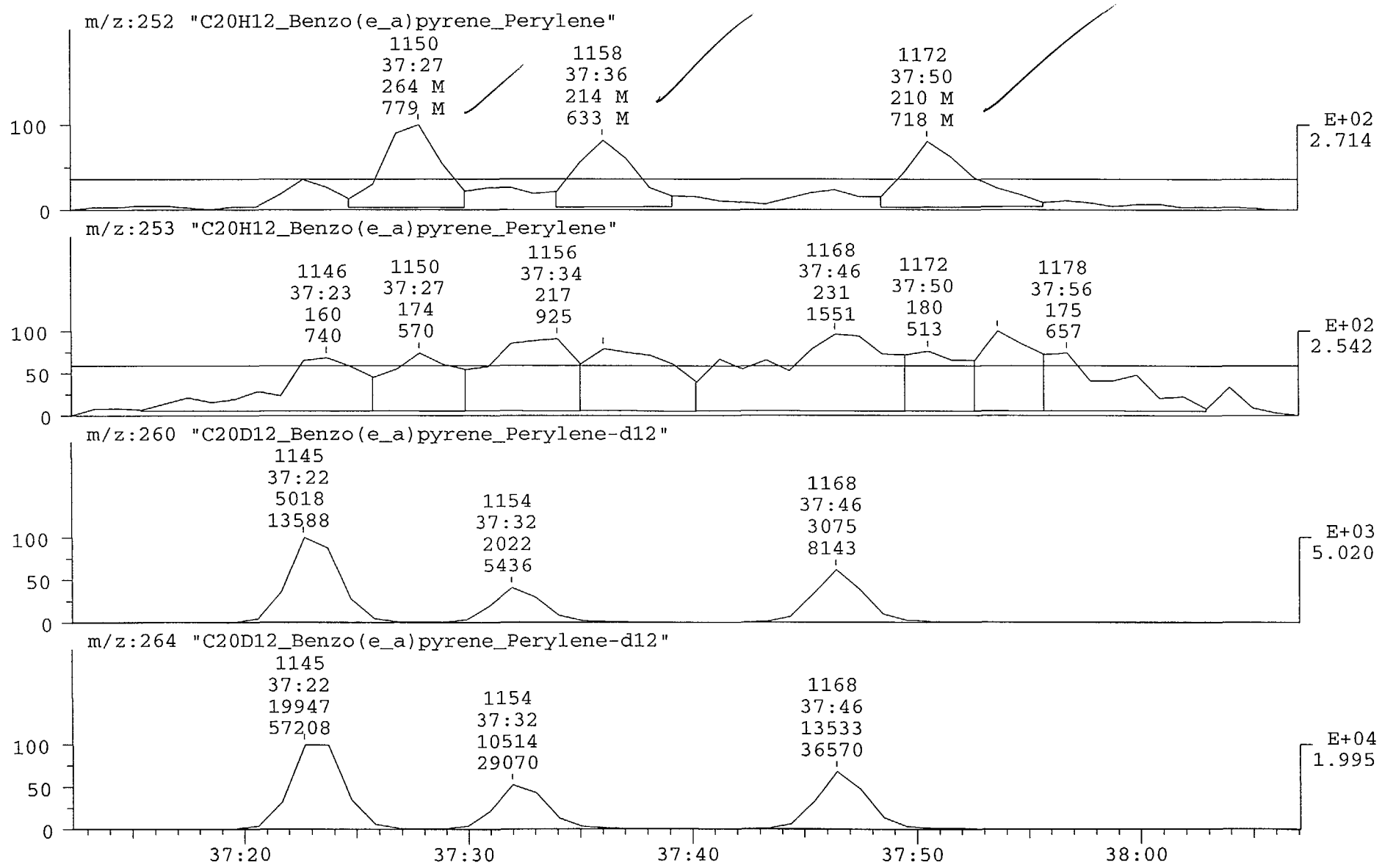
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



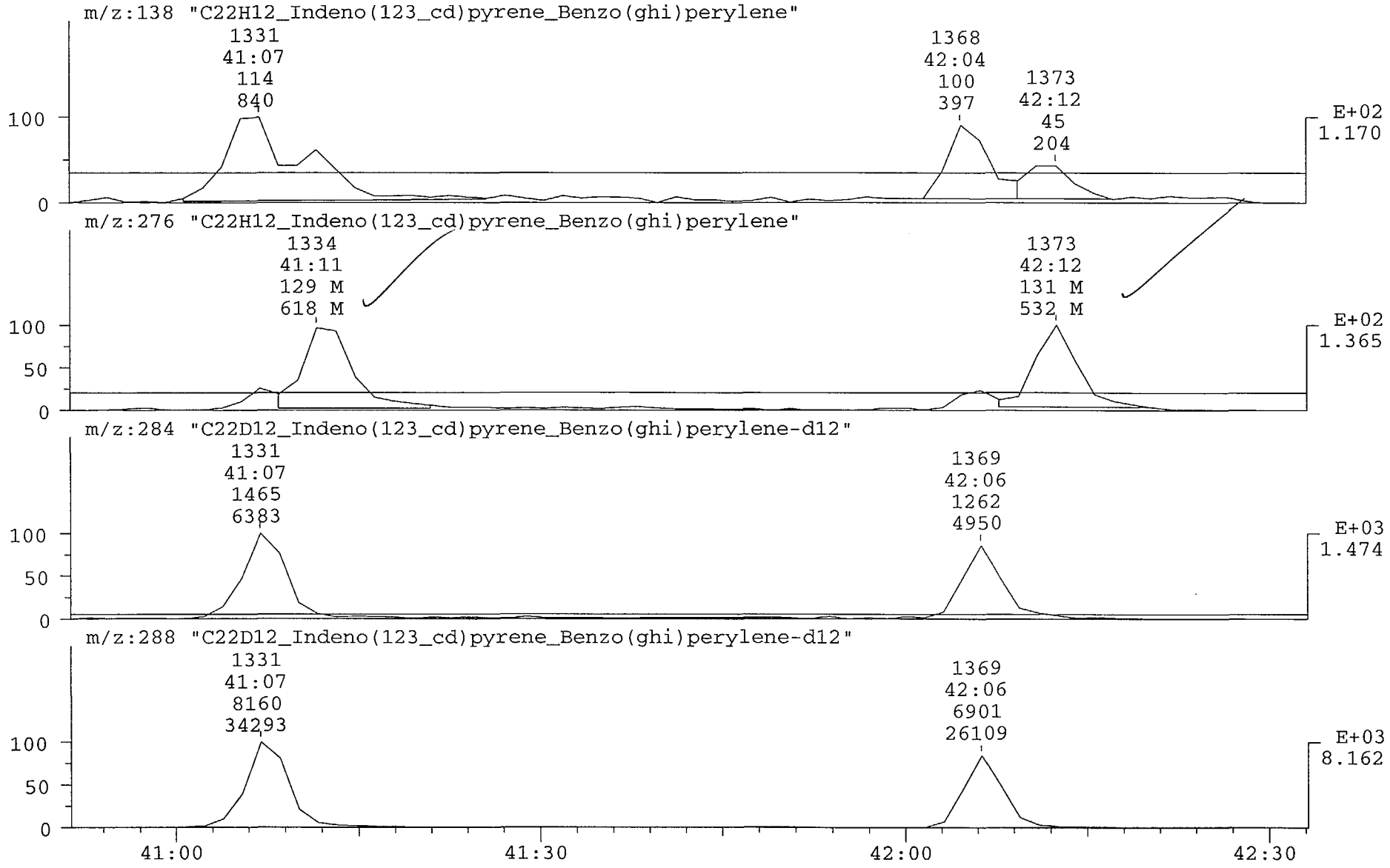
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



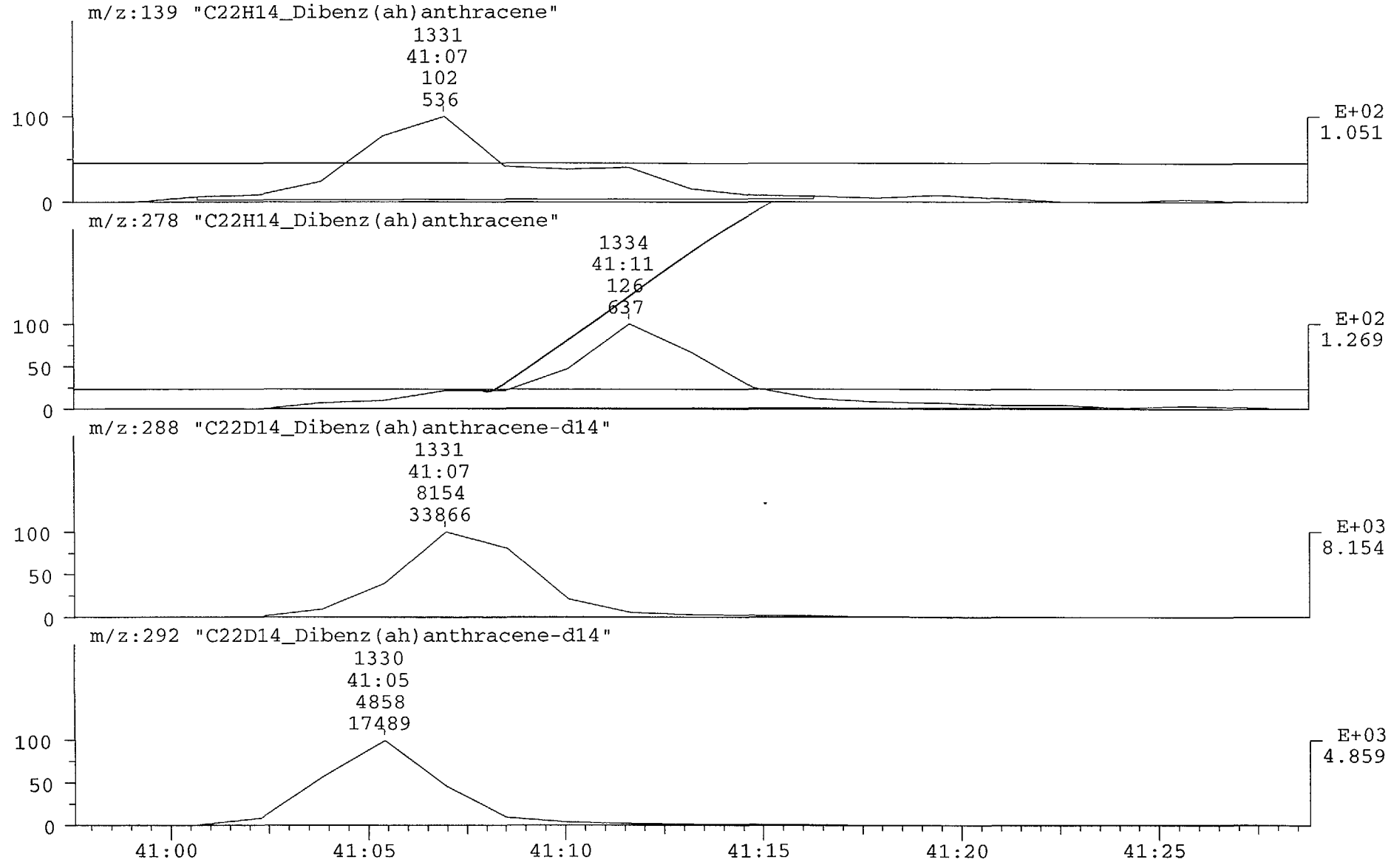
CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w54b 18-APR-06 Elapse: 42:06 1369
Samp: WO=h2w541aa Meth=YA1 Dil=1 Start : 22:37:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063B Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2W54B.D
Date Acquired: 18 Apr 2006  10:37 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W541AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  5
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Wed Apr 19 14:08:17 2006
d:\cdffiles\YH2W54B.CDF Translated at Wed Apr 19 14:08:17 2006 Elapsed: 1 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:34:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w54b.dat
NetCDF File (input): /usr/users/hp/data/yh2w54b.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:34:01 EDT 2006

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	H6D030241	**Work Order # ...:**	H2W541AC-LCS H2W541AD-LCSD	**Matrix .....:**	AIR
LCS Lot-Sample# :	H6D100000 - 063				
Prep Date .....:	04/10/06	**Analysis Date ..:**	04/18/06		
Prep Batch # ...:	6100063				
Dilution Factor :	1				
Analyst ID.....:	Jon M. Nordquist	**Instrument ID..:**	H2A	**Method.....:**	KNOX ID-0016
Initial Wgt/Vol:	1 Sample				

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY		RECOVERY LIMITS	RPD	RPD LIMITS
Acenaphthene	**500**	**492**	**ng/sampl**	**98**		**(60 - 140)**		
	500	**491**	**ng/sampl**	**98**		**(60 - 140)**	**0.27**	**(0 - 25)**
Acenaphthylene	**500**	**462**	**ng/sampl**	**92**		**(60 - 140)**		
	500	**457**	**ng/sampl**	**91**		**(60 - 140)**	**1.0**	**(0 - 25)**
Anthracene	**500**	**402**	**ng/sampl**	**80**		**(60 - 140)**		
	500	**403**	**ng/sampl**	**81**		**(60 - 140)**	**0.31**	**(0 - 25)**
Benzo(a)anthracene	**500**	**440**	**ng/sampl**	**88**	**B**	**(60 - 140)**		
	500	**448**	**ng/sampl**	**90**	**B**	**(60 - 140)**	**1.7**	**(0 - 25)**
Benzo(b)fluoranthene	**500**	**440**	**ng/sampl**	**88**		**(60 - 140)**		
	500	**456**	**ng/sampl**	**91**		**(60 - 140)**	**3.6**	**(0 - 25)**
Benzo(k)fluoranthene	**500**	**407**	**ng/sampl**	**81**		**(60 - 140)**		
	500	**426**	**ng/sampl**	**85**		**(60 - 140)**	**4.4**	**(0 - 25)**
Benzo(ghi)perylene	**500**	**402**	**ng/sampl**	**80**	**B**	**(60 - 140)**		
	500	**428**	**ng/sampl**	**86**	**B**	**(60 - 140)**	**6.3**	**(0 - 25)**
Benzo(a)pyrene	**500**	**424**	**ng/sampl**	**85**	**B**	**(60 - 140)**		
	500	**441**	**ng/sampl**	**88**	**B**	**(60 - 140)**	**3.9**	**(0 - 25)**
Benzo(e)pyrene	**500**	**498**	**ng/sampl**	**100**	**B**	**(60 - 140)**		
	500	**519**	**ng/sampl**	**104**	**B**	**(60 - 140)**	**4.1**	**(0 - 25)**
Chrysene	**500**	**442**	**ng/sampl**	**88**	**B**	**(60 - 140)**		
	500	**447**	**ng/sampl**	**89**	**B**	**(60 - 140)**	**1.3**	**(0 - 25)**
Dibenz(a,h)anthracene	**500**	**399**	**ng/sampl**	**80**		**(60 - 140)**		
	500	**422**	**ng/sampl**	**84**		**(60 - 140)**	**5.5**	**(0 - 25)**
Fluoranthene	**500**	**450**	**ng/sampl**	**90**	**B**	**(60 - 140)**		
	500	**457**	**ng/sampl**	**91**	**B**	**(60 - 140)**	**1.7**	**(0 - 25)**
Fluorene	**500**	**434**	**ng/sampl**	**87**		**(60 - 140)**		
	500	**433**	**ng/sampl**	**87**		**(60 - 140)**	**0.29**	**(0 - 25)**
Indeno(1,2,3-cd)pyrene	**500**	**403**	**ng/sampl**	**81**	**B**	**(60 - 140)**		
	500	**425**	**ng/sampl**	**85**	**B**	**(60 - 140)**	**5.3**	**(0 - 25)**
2-Methylnaphthalene	**500**	**483**	**ng/sampl**	**97**	**B**	**(60 - 140)**		
	500	**480**	**ng/sampl**	**96**	**B**	**(60 - 140)**	**0.65**	**(0 - 25)**
Naphthalene	**500**	**492**	**ng/sampl**	**98**	**B**	**(60 - 140)**		
	500	**492**	**ng/sampl**	**98**	**B**	**(60 - 140)**	**0.070**	**(0 - 25)**
Perylene	**500**	**432**	**ng/sampl**	**86**	**B**	**(60 - 140)**		
	500	**446**	**ng/sampl**	**89**	**B**	**(60 - 140)**	**3.2**	**(0 - 25)**
Phenanthrene	**500**	**459**	**ng/sampl**	**92**	**B**	**(60 - 140)**		
	500	**465**	**ng/sampl**	**93**	**B**	**(60 - 140)**	**1.3**	**(0 - 25)**
Pyrene	**500**	**446**	**ng/sampl**	**89**	**B**	**(60 - 140)**		
	500	**447**	**ng/sampl**	**89**	**B**	**(60 - 140)**	**0.12**	**(0 - 25)**

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	84	(15 - 120)

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...: H6D030241 **Work Order # ...:** H2W541AC-LCS **Matrix .....:** AIR
LCS Lot-Sample# : H6D100000 - 063 H2W541AD-LCSD

INTERNAL STANDARD	PERCENT RECOVERY	RECOVERY LIMITS
	84	(15 - 120)
2-Methylnaphthalene-d10	87	(20 - 120)
	87	(20 - 120)
Acenaphthylene-d8	88	(20 - 120)
	89	(20 - 120)
Phenanthrene-d10	97	(30 - 120)
	96	(30 - 120)
Fluoranthene-d10	101	(30 - 120)
	101	(30 - 120)
Benzo(a)anthracene-d12	98	(30 - 120)
	98	(30 - 120)
Chrysene-d12	100	(30 - 120)
	101	(30 - 120)
Benzo(b)fluoranthene-d12	99	(30 - 120)
	100	(30 - 120)
Benzo(k)fluoranthene-d12	101	(30 - 120)
	101	(30 - 120)
Benzo(a)pyrene-d12	86	(30 - 120)
	86	(30 - 120)
Perylene-d12	87	(30 - 120)
	88	(30 - 120)
Indeno(1,2,3-cd)pyrene-d12	93	(30 - 120)
	94	(30 - 120)
Dibenz(ah)anthracene-d14	92	(30 - 120)
	92	(30 - 120)
Benzo(ghi)perylene-d12	94	(30 - 120)
	96	(30 - 120)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Anthracene-d10	79	(30 - 140)
	77	(30 - 140)

Notes:

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

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

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IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AC	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54c.d	Prep Date	04/10/06	SDG No	
Analysis ID	90143	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/18/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	20:14	Initial Wt/Vol	1	Lims Test Code	XXS09YA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	76456	21372	1.748	500.0	421.511128	84.30	421.511128		0.277
Naphthalene	16:01	91080	27215	1.211	500.0	491.938413	98.39	491.938413	B	0.338
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene					500.0			ND		0.000000
2-Methylnaphthalene	18:03	60956	24129	1.269	500.0	483.401452	96.68	483.401452	B	0.406
2-Methylnaphthalene-d10	17:58	49700	19393	1.104	500.0	433.901221	86.78	433.901221		0.328
1-Methylnaphthalene	18:23	56814	23070	1.365	500.0	473.598889	94.72	473.598889	B	0.472
1-Methylnaphthalene-d10	18:17	43951	15540	0.958	500.0	441.957934	88.39	441.957934		0.378
1-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	75017	33987	1.533	500.0	492.370039	98.47	492.370039		0.673
2,6-Dimethylnaphthalene	19:56	53000	20534	1.249	500.0	474.986368	95.00	474.986368	B	1.85
2,6-Dimethylnaphthalene-d1	19:47	44655	19510	0.977	500.0	440.604487	88.12	440.604487		0.433
C2 Alkylnaphthalenes				1.249		474.986368		474.986368	B	1.69
Acenaphthylene	20:48	81649	28433	1.244	500.0	462.065561	92.41	462.065561		0.188
Acenaphthylene-d8	20:46	71050	32104	1.548	500.0	442.282773	88.46	442.282773		0.156
Acenaphthene-d10	21:16	51880	20682	1.000	500.0	500.000000	100.00	500.000000		0.363
Acenaphthene	21:21	53282	22547	0.762	500.0	491.874765	98.37	491.874765		0.817
2,3,5-Trimethylnaphthalene	22:28	49554	22762	1.127	500.0	492.298926	98.46	492.298926		0.398
C3 Alkylnaphthalenes				1.127		492.298926		492.298926		0.363
Fluorene d-10								ND		0.000000
Fluorene-C13								ND		0.000000
Fluorene	22:52	64381	28243	0.915	500.0	434.018600	86.80	434.018600		0.294
Phenanthrene-d10	25:43	81057	37196	0.753	500.0	487.199755	97.44	487.199755		0.695
Phenanthrene	25:47	90424	42164	1.216	500.0	458.569012	91.71	458.569012	B	0.166
Anthracene-d10	25:52	57234	20616	0.655	500.0	395.717217	79.14	395.717217		0.800
Anthracene	25:56	69031	28775	1.059	500.0	402.119231	80.42	402.119231		0.190
1-Methylphenanthrene	27:40	65698	29009	0.870	500.0	465.657070	93.13	465.657070		0.463
Fluoranthene-d10	29:21	81049	36579	0.727	500.0	505.028467	101.01	505.028467		0.252
Fluoranthene	29:24	97190	44930	1.334	500.0	449.537407	89.91	449.537407	B	0.154
Pyrene-d10	30:02	110441	47737	1.000	500.0	500.000000	100.00	500.000000		0.183
Pyrene	30:05	98948	42455	1.369	500.0	445.950179	89.19	445.950179	B	0.150
Terphenyl-d14								ND		0.000000
Benzo(a)Anthracene-d12	33:37	56224	24127	0.521	500.0	488.579029	97.72	488.579029		0.352
Benzo(a)anthracene	33:40	71951	32454	1.454	500.0	440.165159	88.03	440.165159	B	0.214
Chrysene-d12	33:44	61484	26780	0.557	500.0	499.988463	100.00	499.988463		0.329
Chrysene	33:48	74016	35256	1.363	500.0	441.619933	88.32	441.619933	B	0.205
Benzo(b)Fluoranthene-d12	36:35	55057	23594	0.847	500.0	497.300228	99.46	497.300228		0.785
Benzo(k)Fluoranthene-d12	36:39	65851	23995	1.002	500.0	502.616718	100.52	502.616718		0.664
Benzo(b)fluoranthene	36:39	72969	28925	1.508	500.0	439.549796	87.91	439.549796		0.738
Benzo(k)fluoranthene	36:42	60988	24981	1.136	500.0	407.461618	81.49	407.461618		0.963
Benzo(e)pyrene-d12	37:23	65347	24429	1.000	500.0	500.000000	100.00	500.000000		0.665
Benzo(e)pyrene	37:27	65232	24709	1.589	500.0	498.226337	99.65	498.226337	B	1.16
Benzo(a)Pyrene-d12	37:32	41211	14200	0.737	500.0	427.900553	85.58	427.900553		0.903
Benzo(a)pyrene	37:36	46616	18196	1.333	500.0	424.392120	84.88	424.392120	B	1.39
Perylene-d12	37:46	50217	18328	0.887	500.0	433.416944	86.68	433.416944		0.750
Perylene	37:50	51045	18863	1.178	500.0	431.562113	86.31	431.562113	B	1.22
3-Methylcholanthrene					500.0			ND		0.000000

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IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AC	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54c.d	Prep Date	04/10/06	SDG No	
Analysis ID	90143	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	4/18/2006	Matrix	AIR	Date Sampled	03/28/06
Analysis Time	20:14	Initial Wt/Vol	1	Lims Test Code	XXS09YA01
Anal Exp Date	05/20/06	Extract Vol	1	Method	DXLPAH
Instrument	H2A	Dil Factor	1.0	Code	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	24265	6873	0.405	500.0	458.888444	91.78	458.888444		0.759
Indeno(1,2,3-cd)pyrene-d12	41:07	47122	10973	0.779	500.0	462.821653	92.56	462.821653		0.328
Indeno(1,2,3-cd)pyrene	41:11	49302	11982	1.297	500.0	403.403856	80.68	403.403856	B	0.527
Dibenz(a,h)anthracene	41:11	39872	11691	2.059	500.0	399.090215	79.82	399.090215		1.15
Benzo(ghi)Perylene-d12	42:06	34422	9253	0.559	500.0	470.927036	94.19	470.927036		0.457
Benzo(ghi)perylene	42:12	46958	12501	1.698	500.0	401.667360	80.33	401.667360	B	0.477
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene					500.0			ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AC	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54c.d	Prep Date	04/10/06	SDG No	
Analysis ID	90143	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/18/06 20:14	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXS09YA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	18		7				
	Naphthalene	16:01	16:01	0	91080 ✓		27215			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	20		8				
	Naphthalene-d8	15:58	15:57	1	76456 ✓		21372			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene	18:03	18:03	0	60956 ✓		24129			AVV	M
	1-Methylnaphthalene	18:23	18:23	0	56814 ✓		23070			AVB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	17:58	0	49700 ✓		19393			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	43951 ✓		15540			AVB	
	Acenaphthylene	20:48	20:48	0	81649 ✓		28433			ABB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	40		16				
	Biphenyl	19:27	19:26	1	75017 ✓		33987			ABB	
	Acenaphthene	21:21	21:22	-1	53282 ✓		22547			ABB	
156					156.0000		156.0000				
	Noise	00:00	00:00	0	90		36				
	2,6-Dimethylnaphthalene	19:56	19:55	1	53000 ✓		20534			ABB	M
160					160.0000		160.0000				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:46	20:47	-1	71050 ✓		32104			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	10		4				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	15		6				
	Acenaphthene-d10	21:16	21:16	0	51880 ✓		20682			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	20		8				
	Fluorene	22:52	22:52	0	64381 ✓		28243			ABB	
168					168.0000		168.0000				
	Noise	00:00	00:00	0	18		7				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	44655 ✓		19510			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	20		8				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	18		7				
	2,3,5-Trimethylnaphthal	22:28	22:29	-1	49554 ✓		22762			ABB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	8		3				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AC	**Prep Batch**	6100063	**Lot No**	H6D100000-063
Data File	/20060418s2/yh2w54c.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90143	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	04/18/06 20:14	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

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

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	15		6				
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene	25:47	25:48	-1	90424		42164			ABV	M
	Anthracene	25:56	25:55	1	69031		28775			AVV	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	50		20				
	Phenanthrene-d10	25:43	25:44	-1	81057		37196			ABV	
	Anthracene-d10	25:52	25:52	0	57234		20616			AVB	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	30		12				
	1-Methylphenanthrene	27:40	27:41	-1	65698		29009			ABB	
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene	29:24	29:24	0	97190		44930			ABV	M
	Pyrene	30:05	30:05	0	98948		42455			ABV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene-d10	29:21	29:21	0	81049		36579			ABV	
	Pyrene-d10	30:02	30:02	0	110441		47737			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)anthracene	33:40	33:40	0	71951		32454			ABV	M
	Chrysene	33:48	33:48	0	74016		35256			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)Anthracene-d12	33:37	33:36	1	56224		24127			ABV	
	Chrysene-d12	33:44	33:44	0	61484		26780			AVB	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	5		2				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	53		21				
	Benzo(b)fluoranthene	36:39	36:39	0	72969		28925			ABV	
	Benzo(k)fluoranthene	36:42	36:42	0	60988		24981			AVB	
	Benzo(e)pyrene	37:27	37:27	0	65232		24709			ABV	M
	Benzo(a)pyrene	37:36	37:36	0	46616		18196			AVV	M
	Perylene	37:50	37:50	0	51045		18863			AVB	M
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	33		13				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	55057		23594			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	65851		23995			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	65347		24429			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	41211		14200			AVV	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AC	Prep Batch	6100063	Lot No	H6D100000-063
Data File	/20060418s2/yh2w54c.d	Prep Date	04/10/06	SDG No	
Analysis ID	90143	Prep Exp Date	04/18/06	Date Received	04/10/06
Analysis Date	04/18/06 20:14	Matrix	AIR	Date Sampled	03/28/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXS09YA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

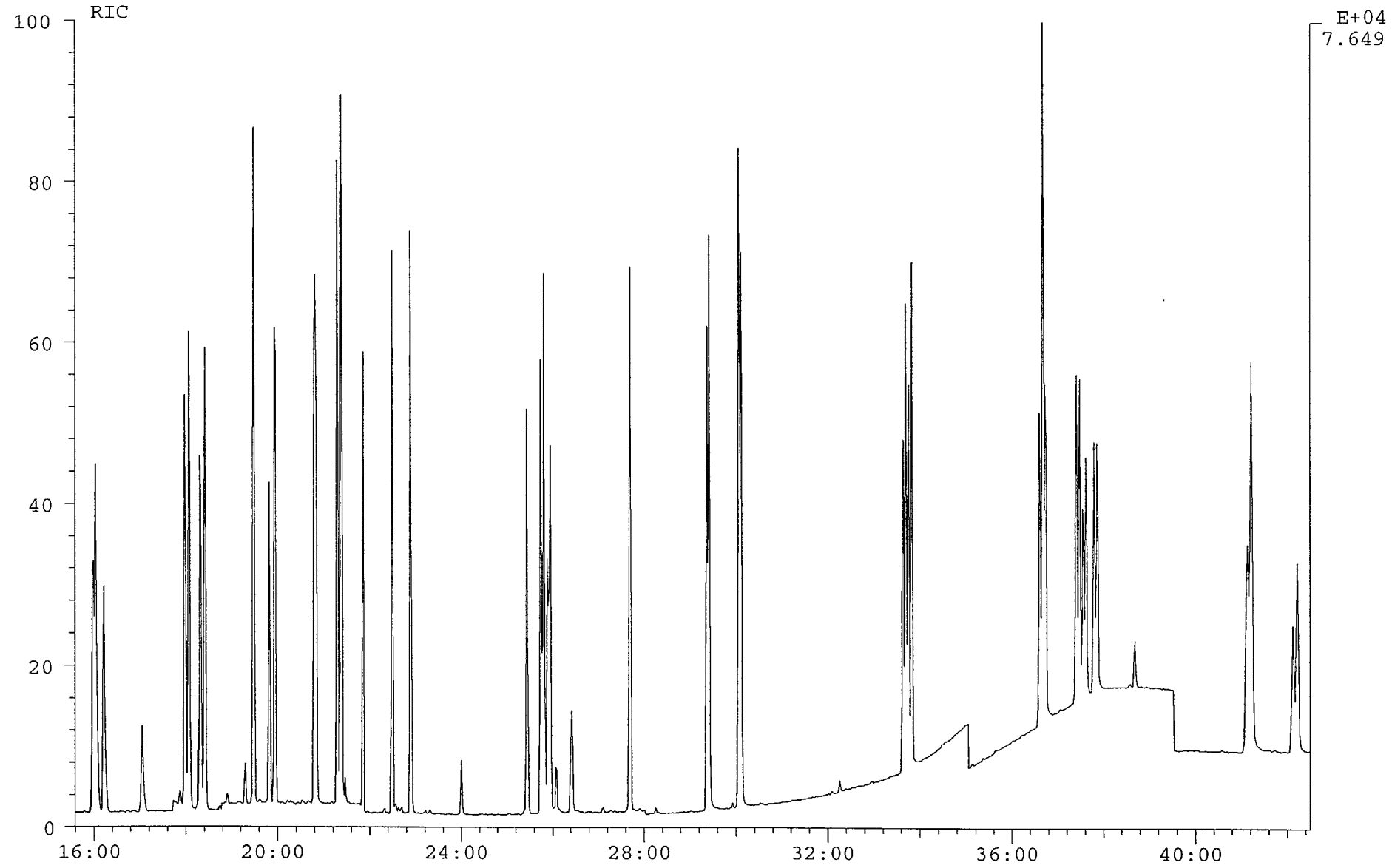
View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Perylene-d12	37:46	37:46	0	50217	✓	18328			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	48		19				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene	41:11	41:12	-1	49302	✓	11982			ABV	M
	Benzo(ghi)perylene	42:12	42:13	-1	46958	✓	12501			ABB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	33		13				
	Dibenz(a,h)anthracene	41:11	41:12	-1	39872	✓	11691			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	47122	✓	10973			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	34422	✓	9253			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	15		6				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	24265	✓	6873			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	5		2				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	5		2				

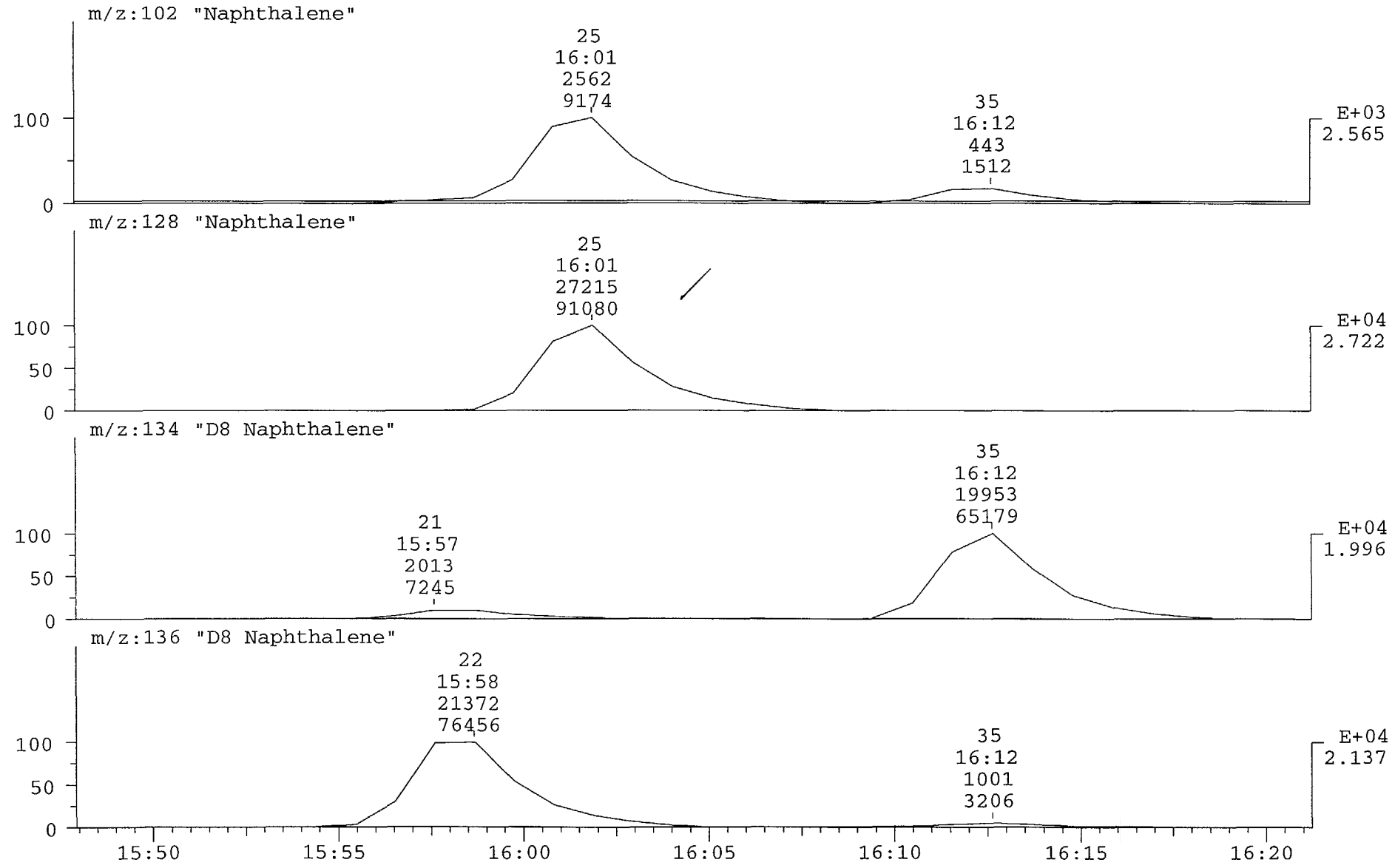
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

Int/Calc: JMN 4/19/06
QC VMK 4/25/06
Rev VMK 4/25/06

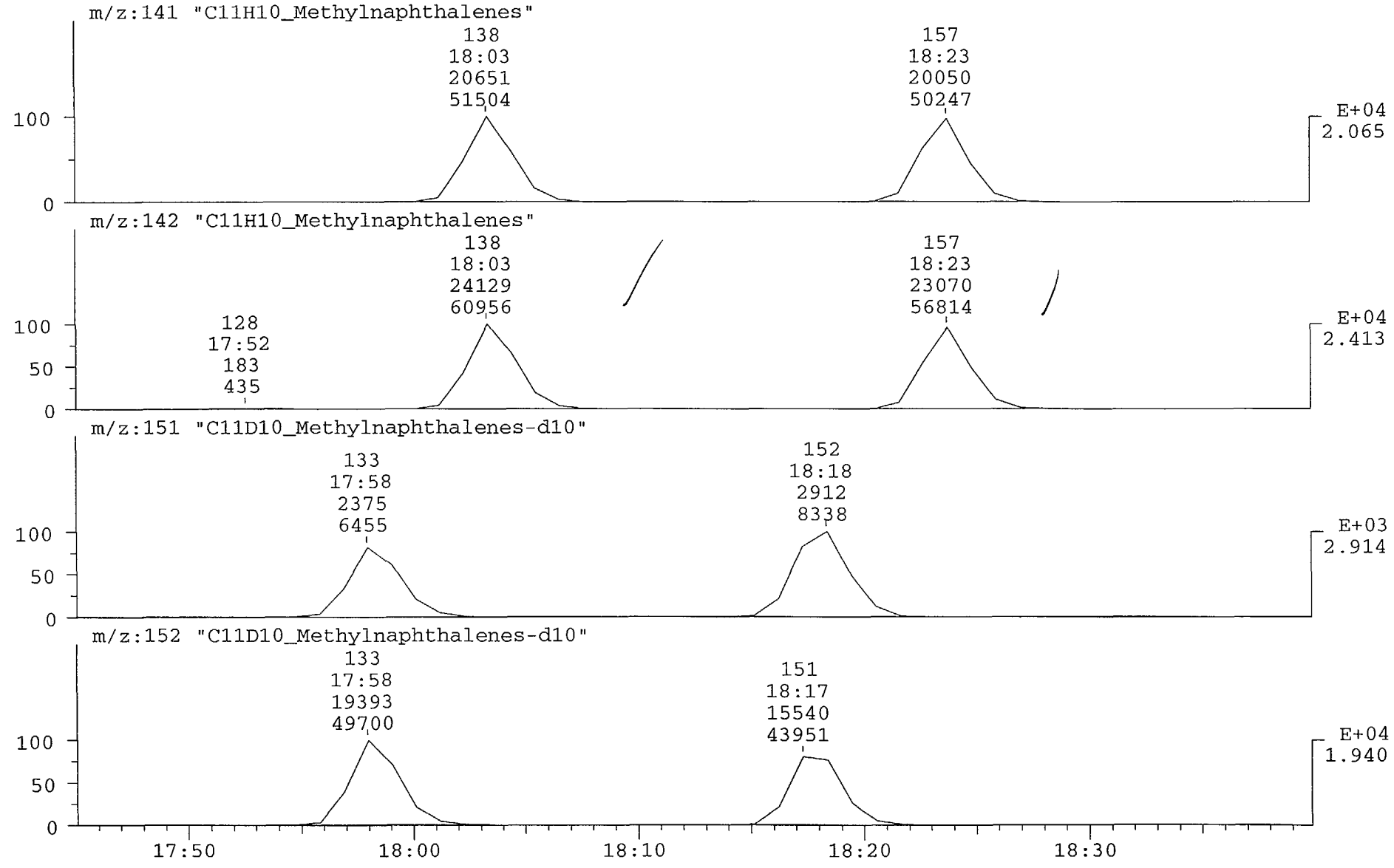
```
CHRO:  yh2w54c                                  18-APR-06   Elapse:   42:06       1369
Samp:  WO=h2w541ac Meth=YA1 Dil=1                           Start :   20:14:00    1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                     Study :   6100063
Oper:  JMN            Client:  H6D100000-063C               Inlet :
Peak:  100.00  ppm      Label wndw:   1365 > 1373           Masses:   0 > 308
Area:  5, 0.50, 15      Baseline  :   100, 3                Label :   0, 3.0
Disp:  Height  Area
```



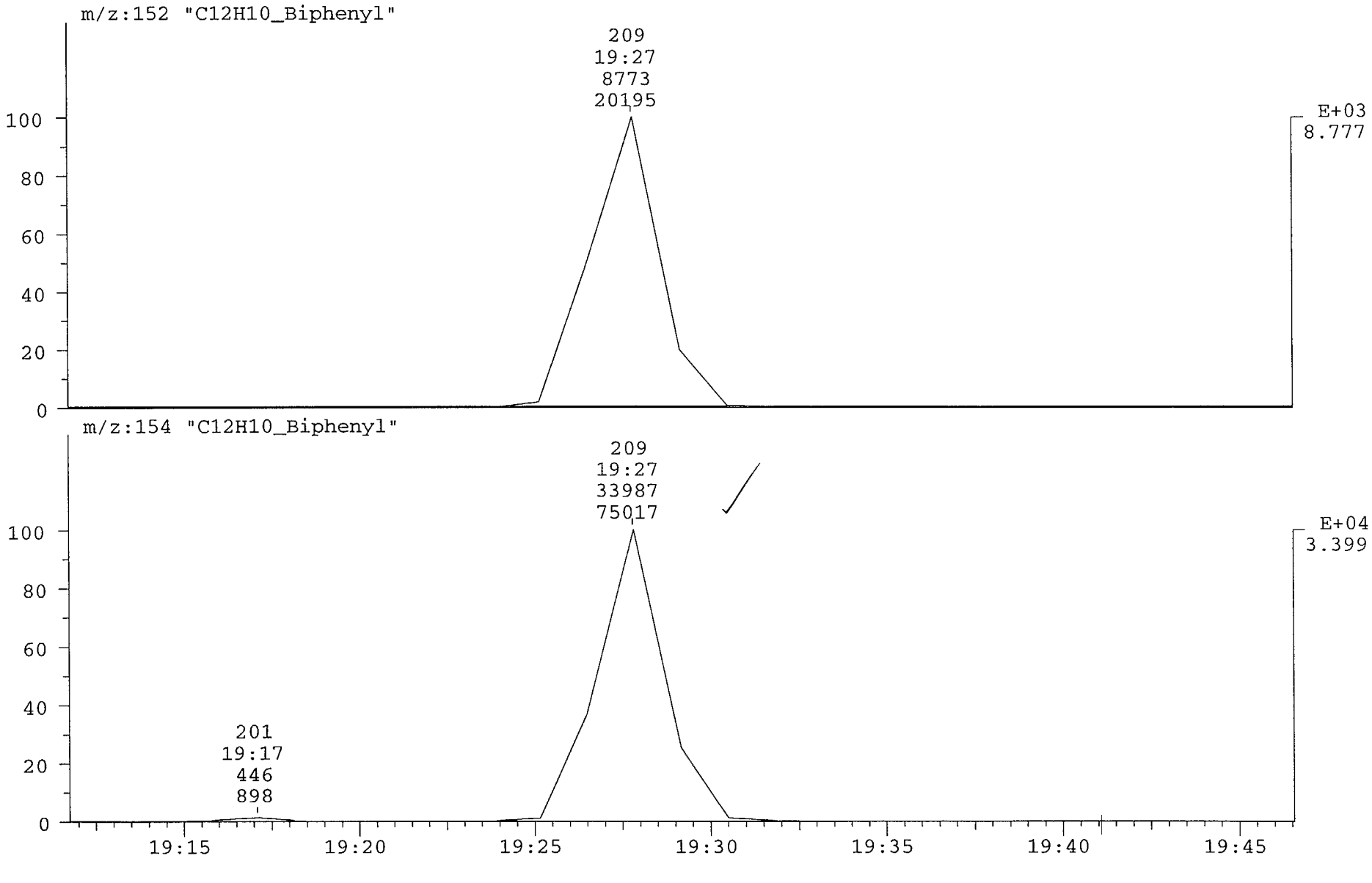
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



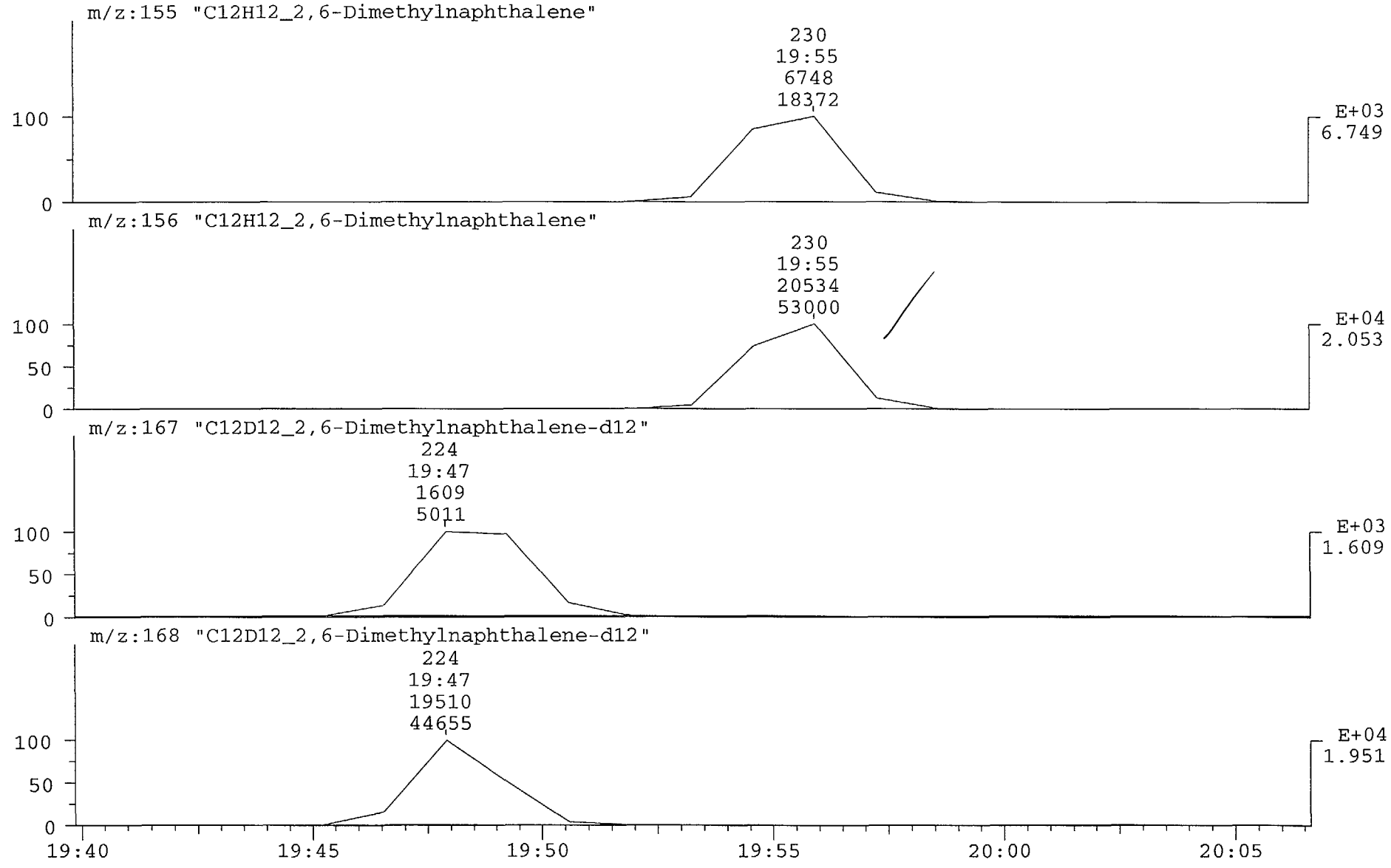
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



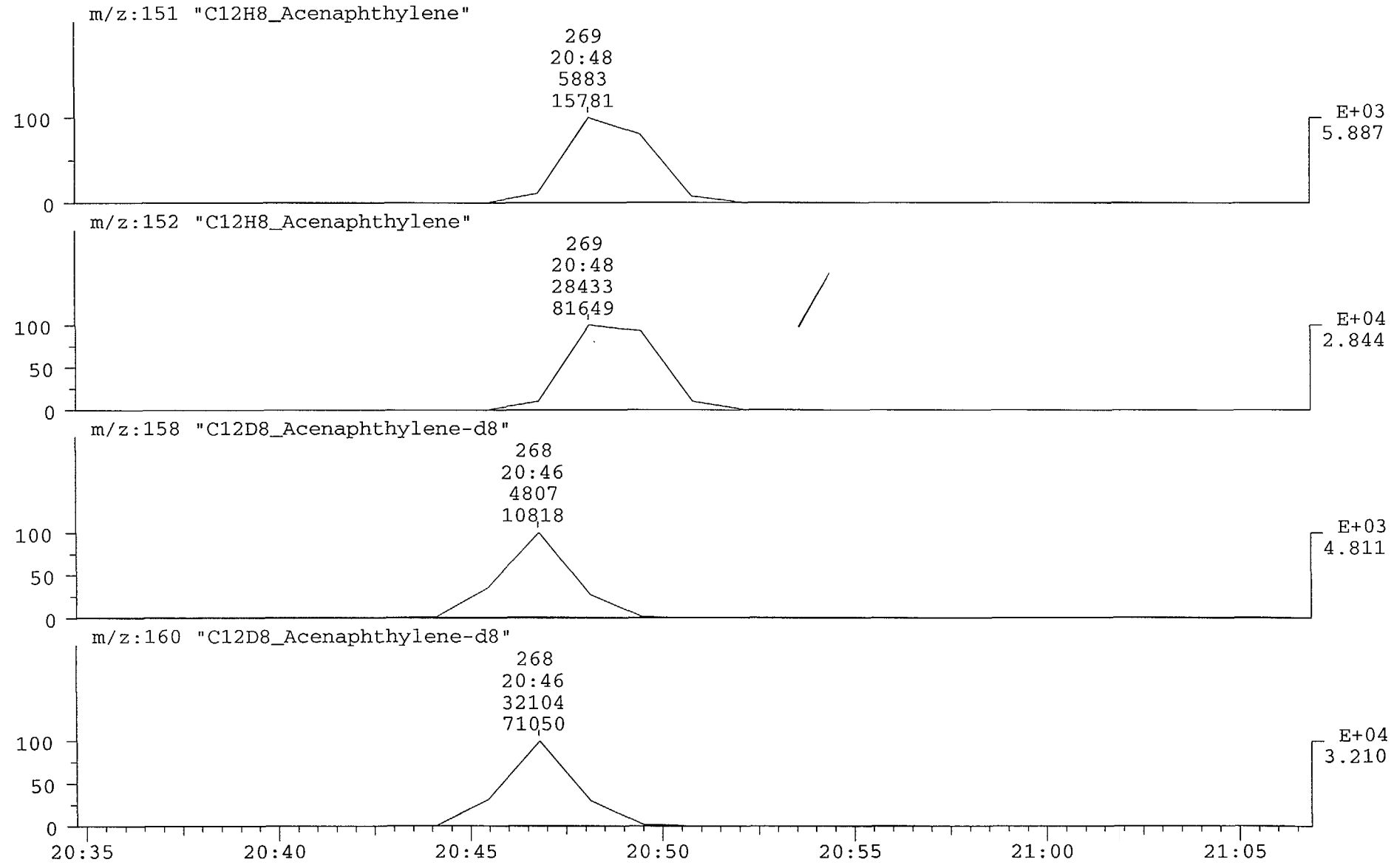
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CHRO:  yh2w54c                                18-APR-06   Elapse:   41:00      1327
Samp:  WO=h2w541ac Meth=YA1 Dil=1                         Start :   20:14:00   1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100063
Oper:  JMN           Client:  H6D100000-063C              Inlet :
Peak:  100.00  ppm     Label wndw:   197 > 223            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



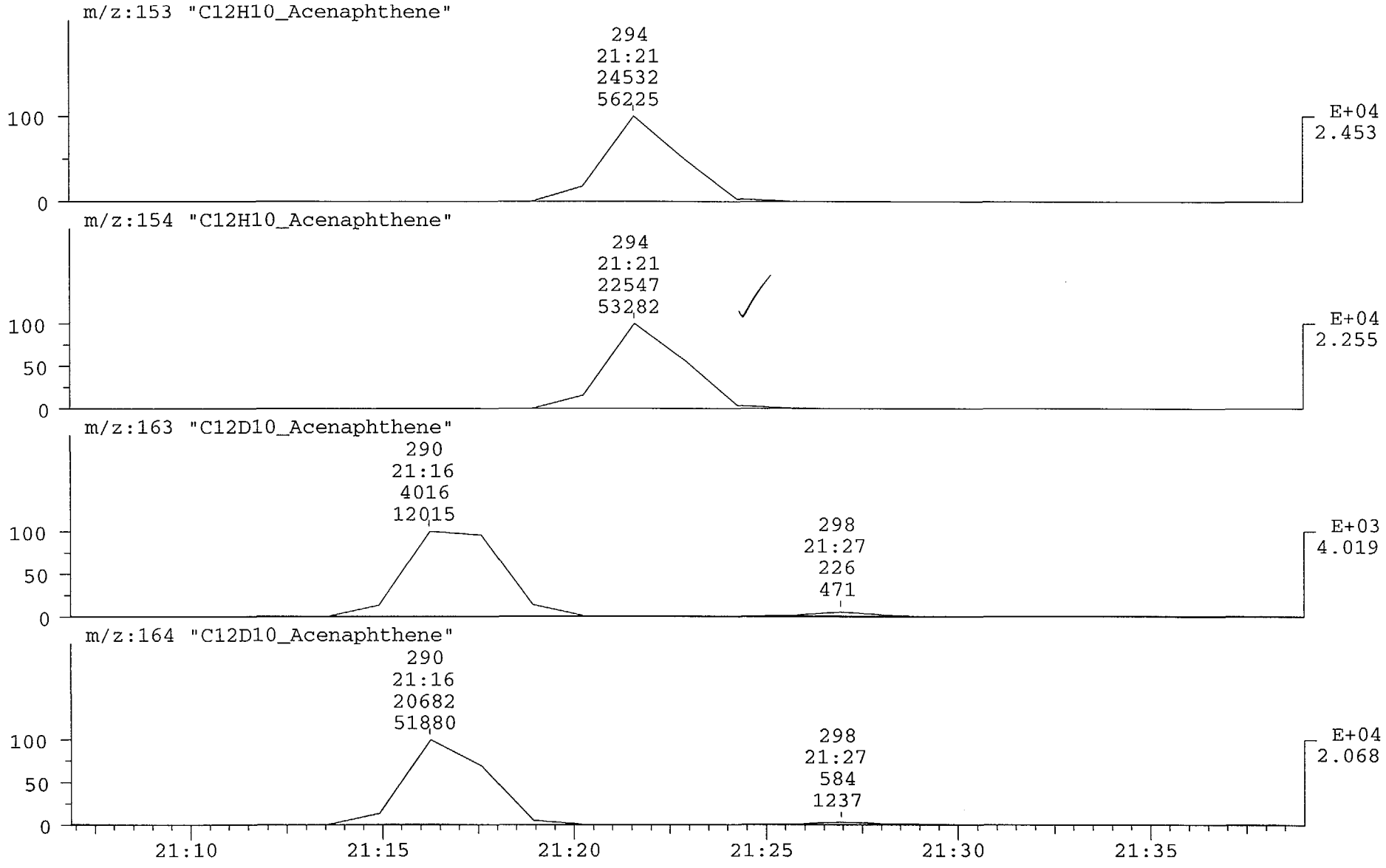
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



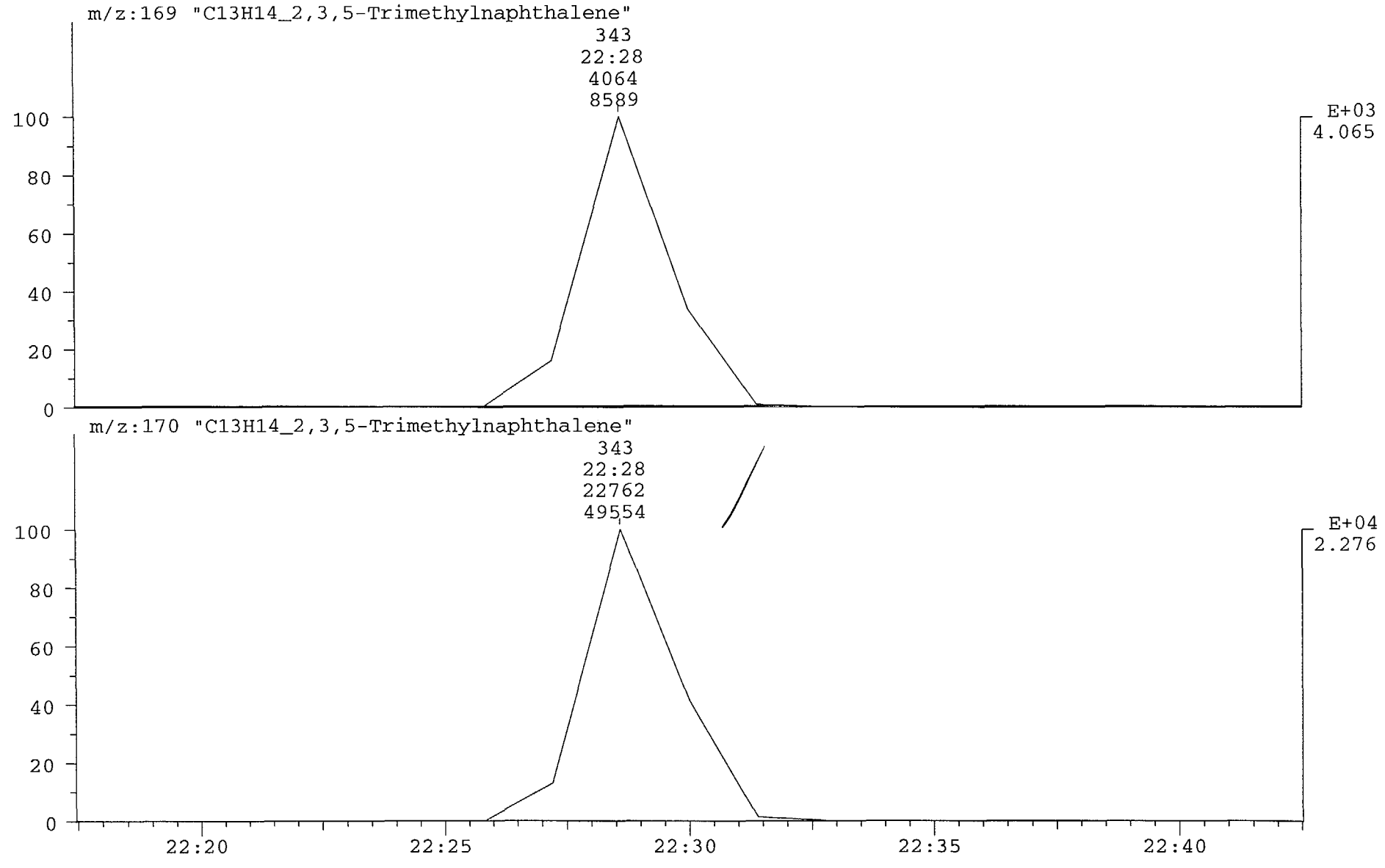
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



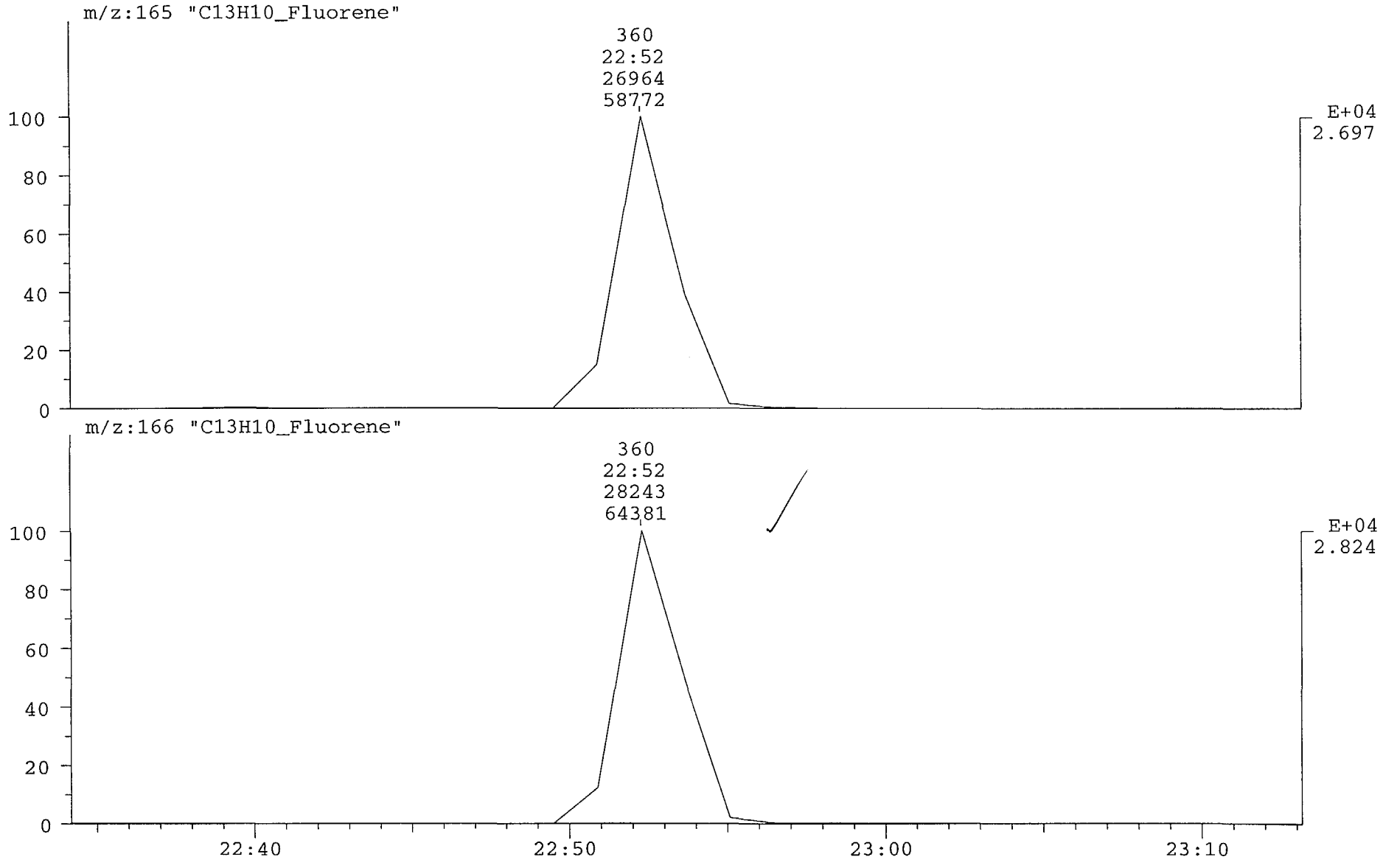
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



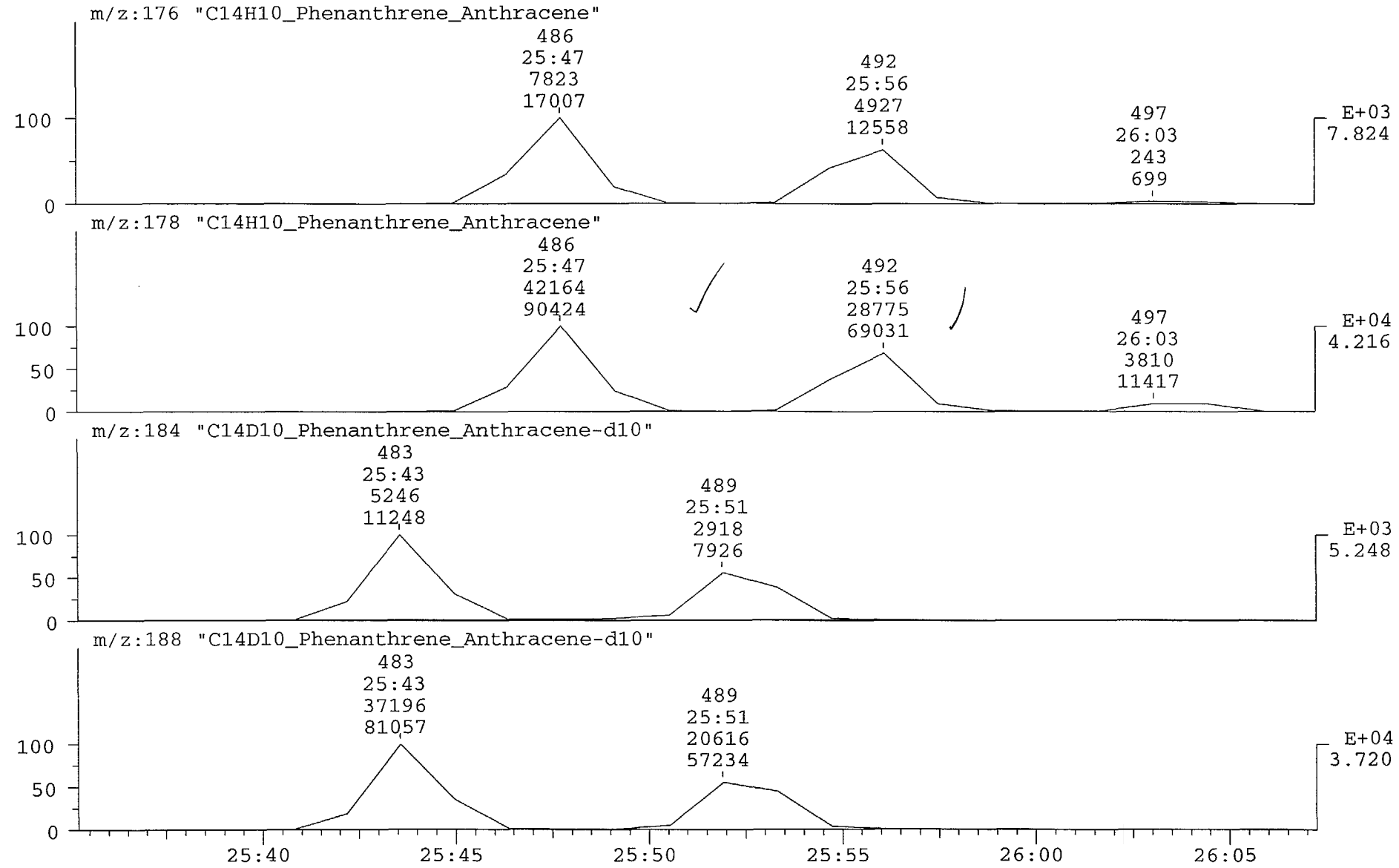
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 335 > 353 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



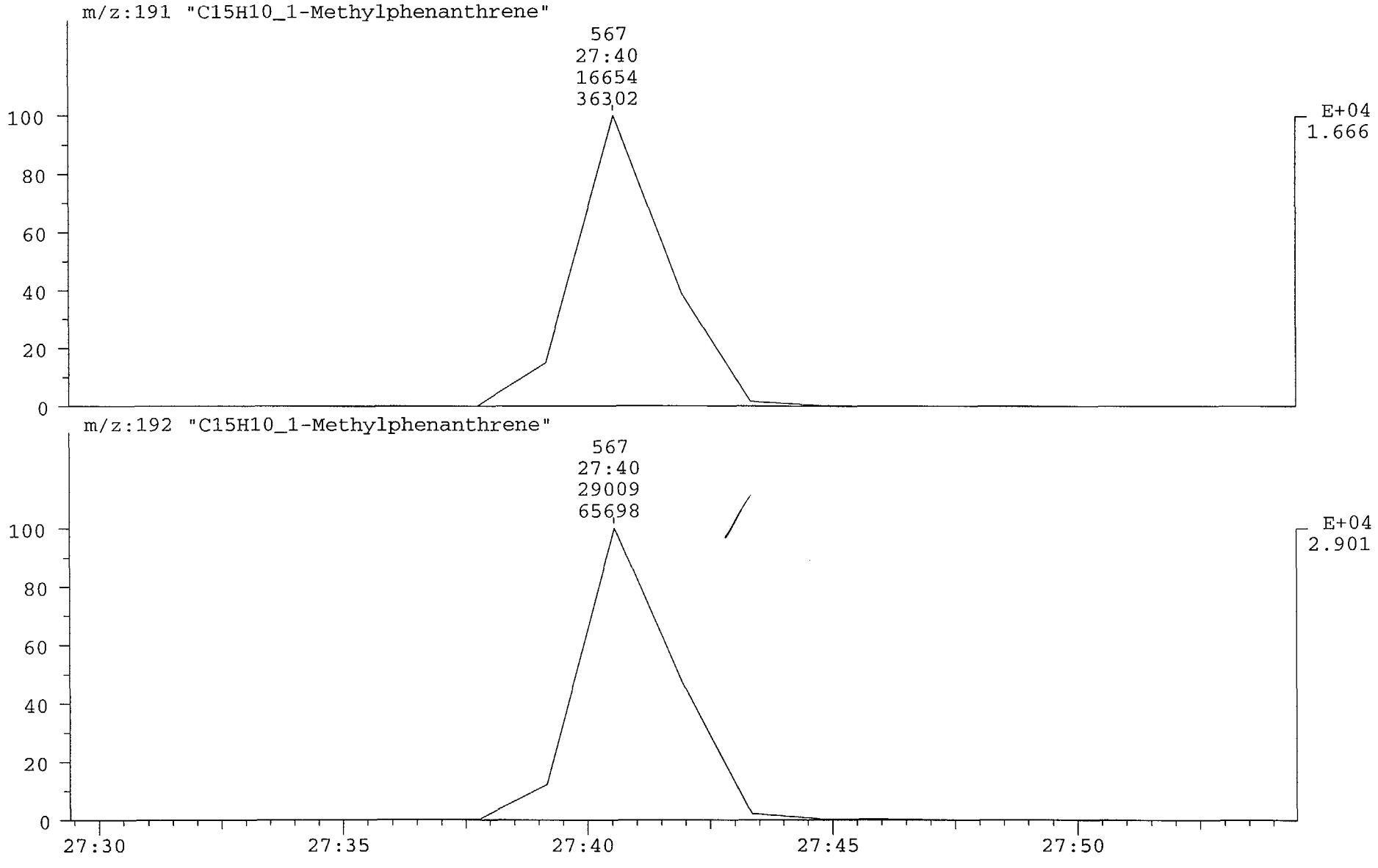
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

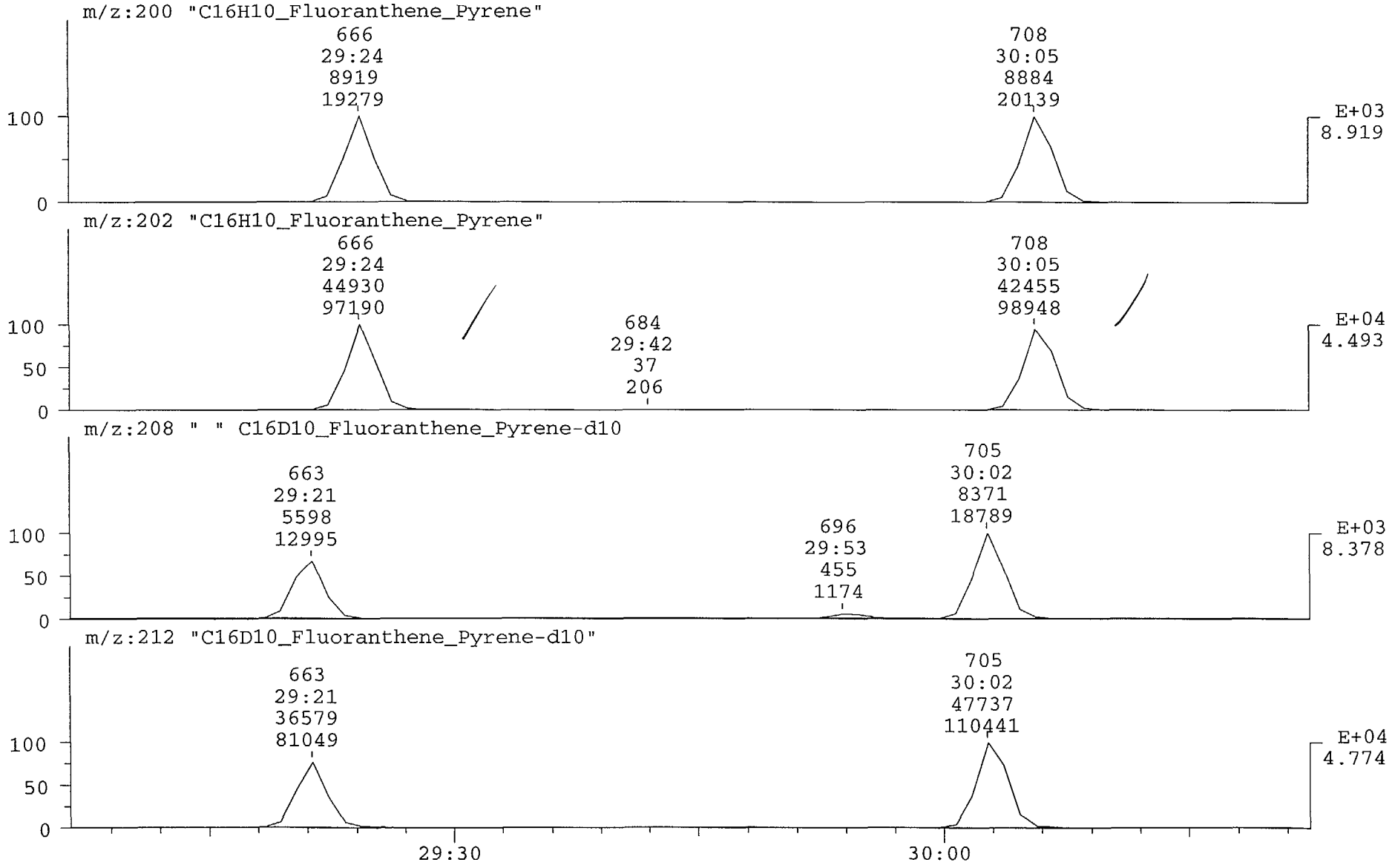


CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

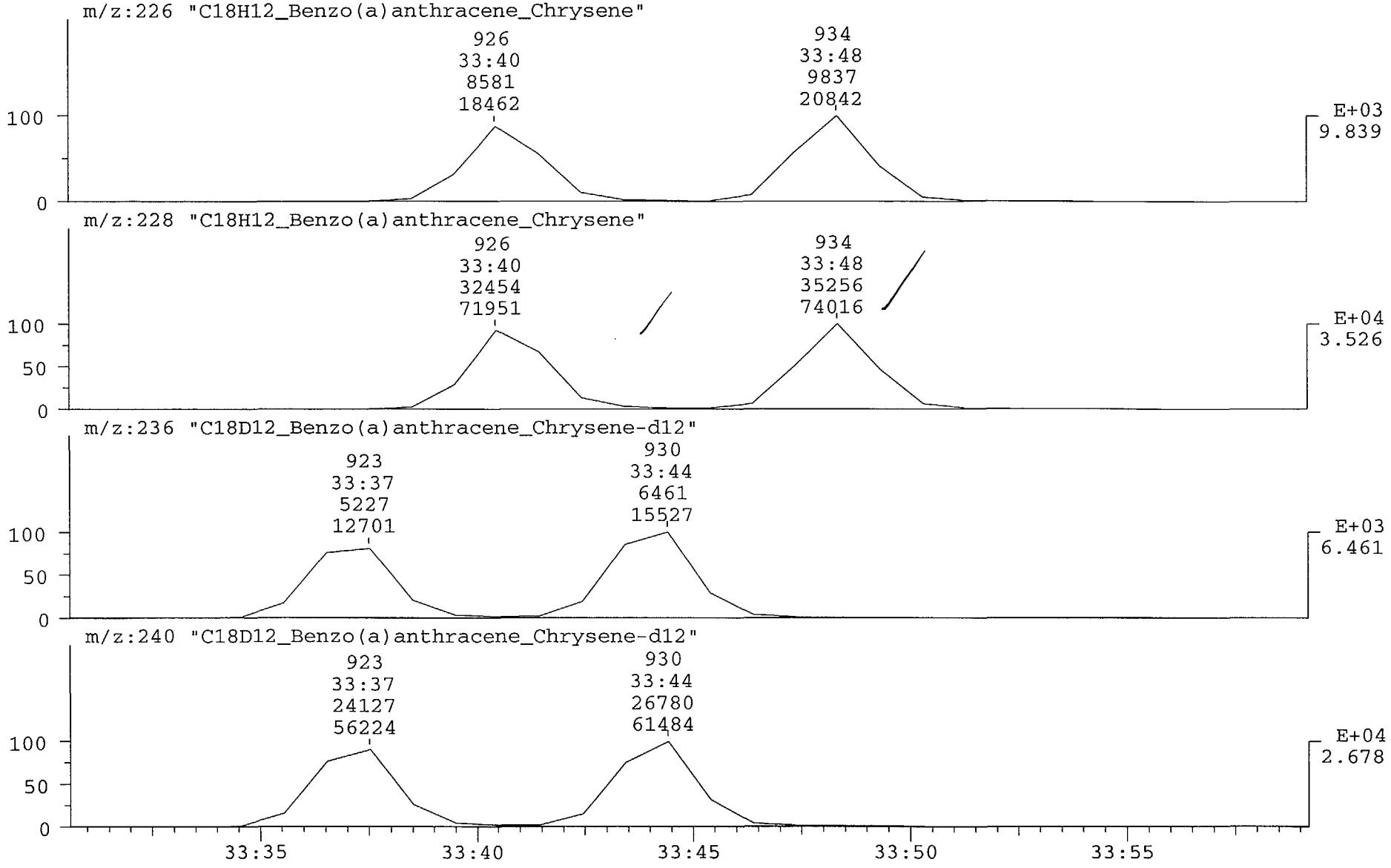


4656

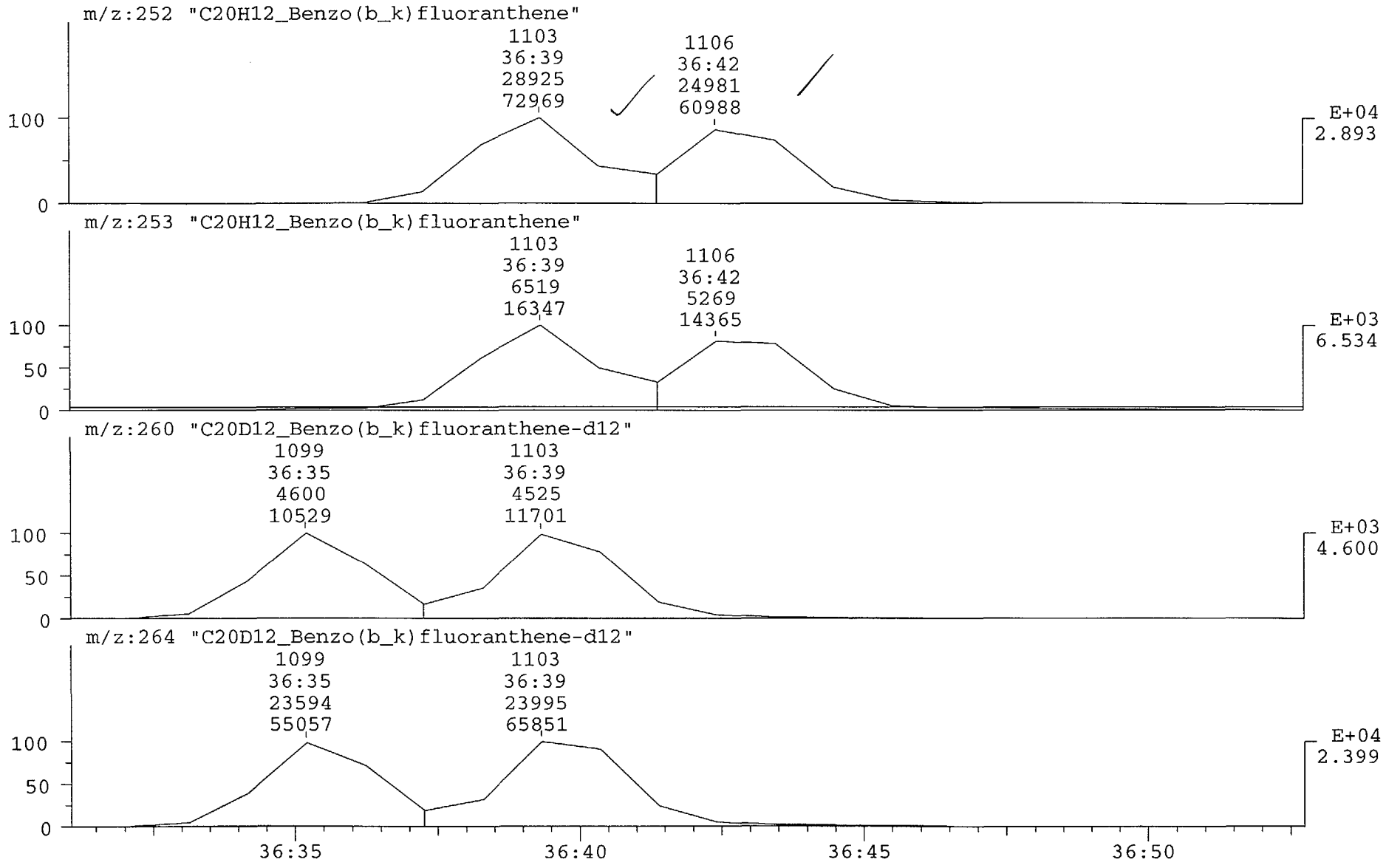
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



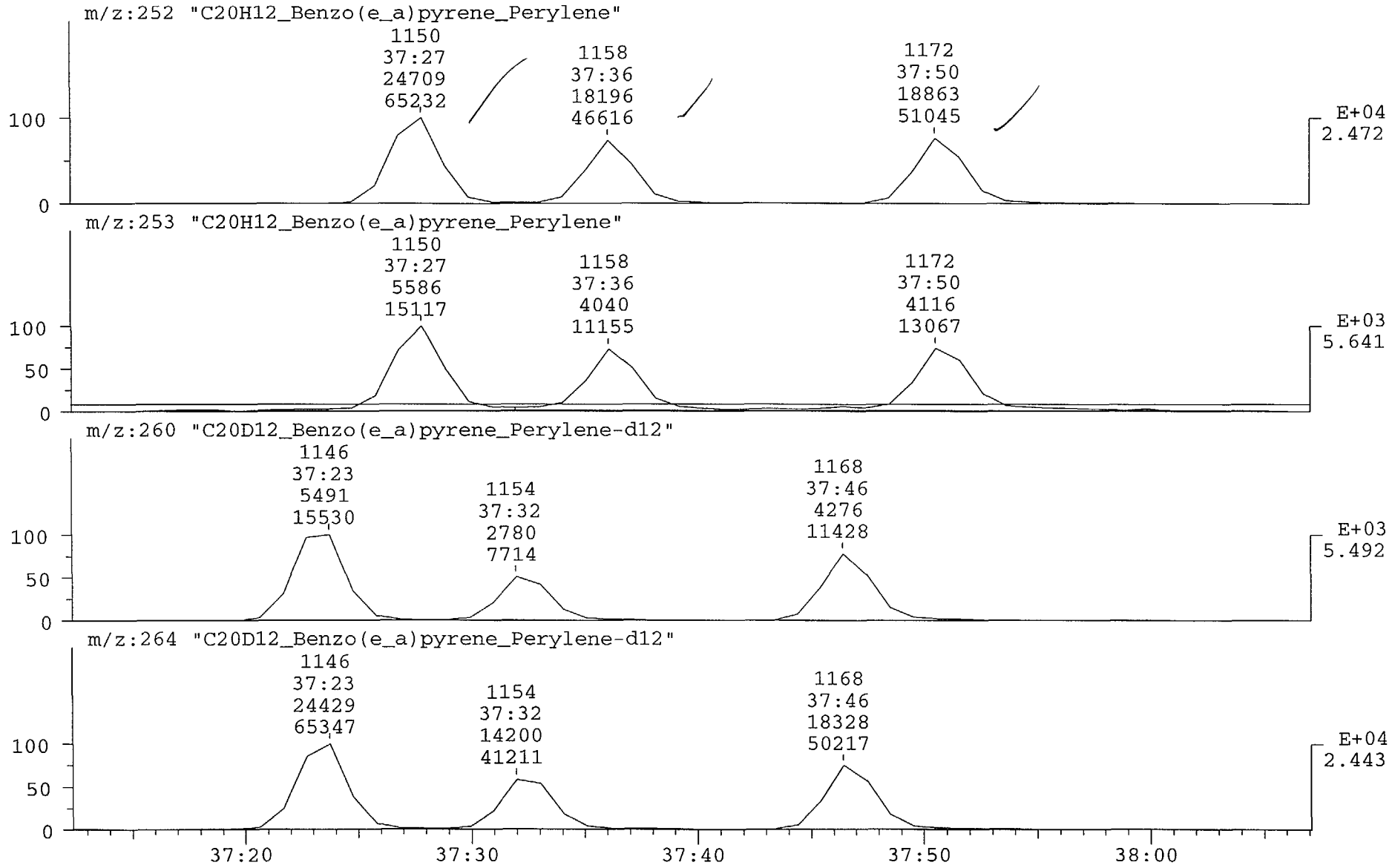
CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

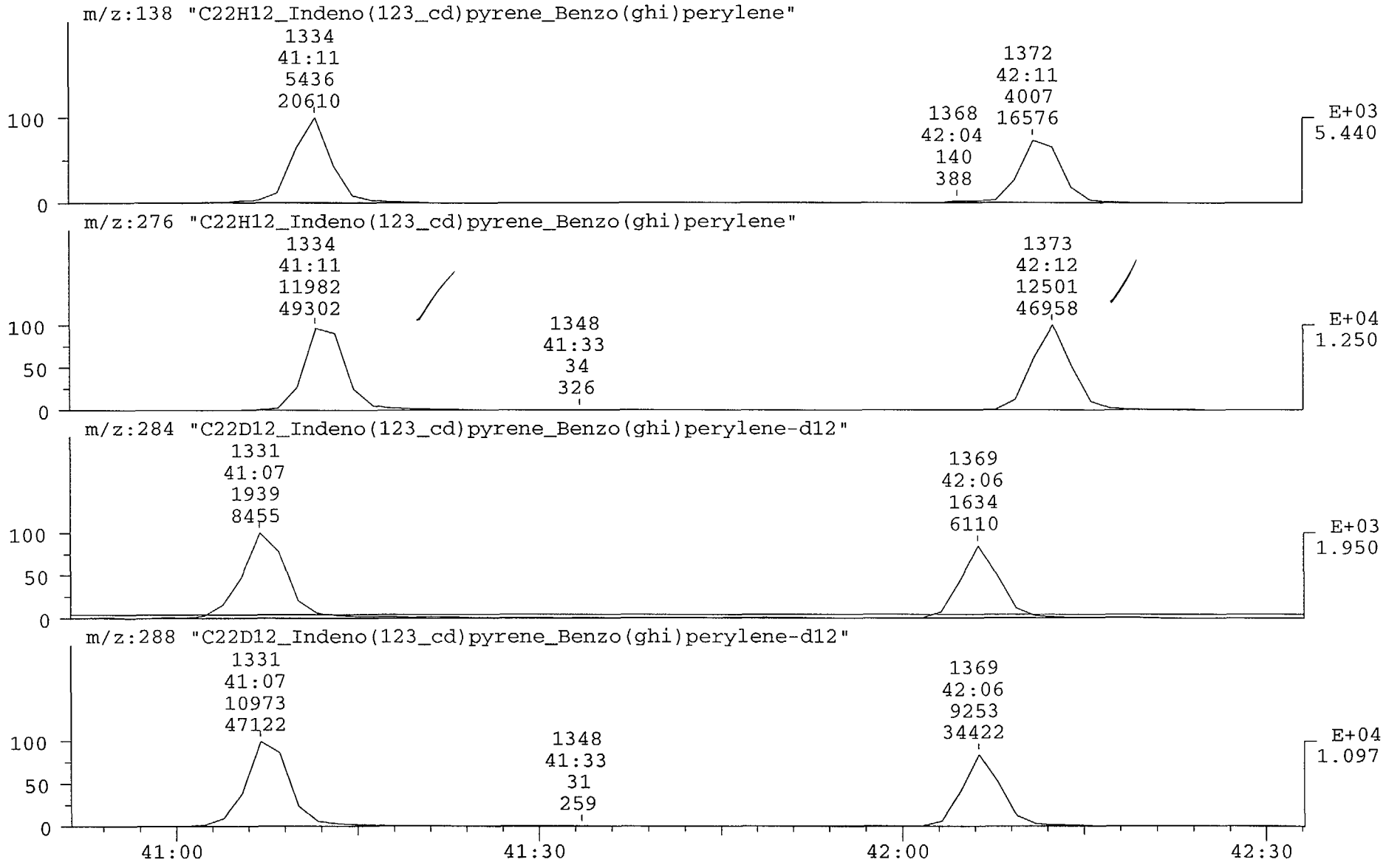


CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area

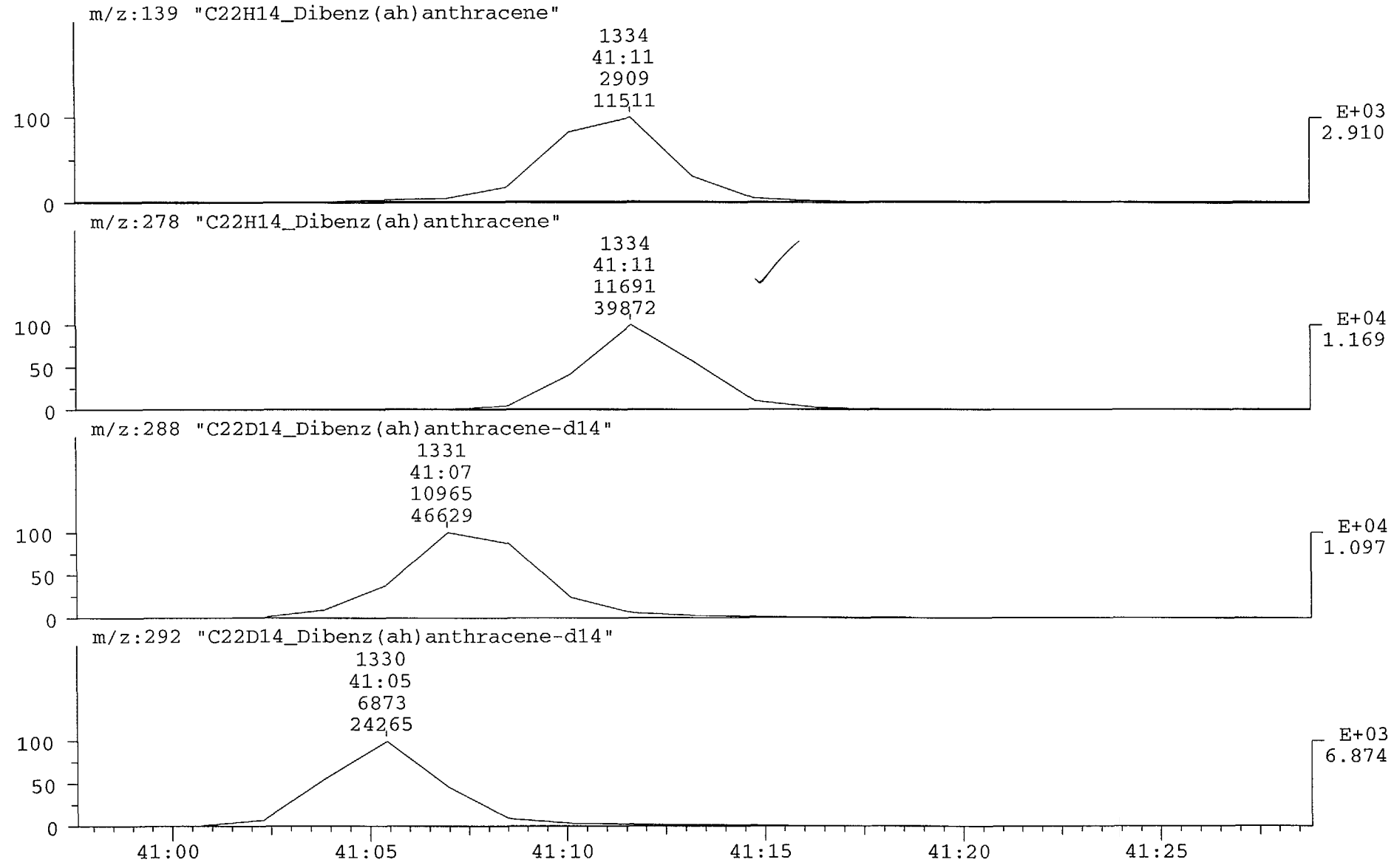


4660

CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w54c 18-APR-06 Elapse: 41:00 1327
Samp: WO=h2w541ac Meth=YA1 Dil=1 Start : 20:14:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063C Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2W54C.D
Date Acquired: 18 Apr 2006   8:14 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W541AC
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  3
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Wed Apr 19 14:07:51 2006
d:\cdffiles\YH2W54C.CDF Translated at Wed Apr 19 14:07:51 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:34:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w54c.dat
NetCDF File (input): /usr/users/hp/data/yh2w54c.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:34:02 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AD	**Prep Batch**	6100063	**Lot No**	H6D100000-063
Data File	/20060418s2/yh2w541.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90144	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	4/18/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	21:04	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09YA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Naphthalene-d8	15:58	65140	18960	1.748	500.0	421.591367	84.32	421.591367		0.596
Naphthalene	16:01	77657	22885	1.211	500.0	492.302614	98.46	492.302614	B	0.545
1,4-Dichlorobenzene-d4					500.0			ND		0.000000
1,4-Dichlorobenzene					500.0			ND		0.000000
2-Methylnaphthalene	18:03	51916	19330	1.269	500.0	480.250855	96.05	480.250855	B	0.501
2-Methylnaphthalene-d10	17:58	42607	15746	1.104	500.0	436.678613	87.34	436.678613		0.472
1-Methylnaphthalene	18:23	48723	19525	1.365	500.0	473.949041	94.79	473.949041	B	0.539
1-Methylnaphthalene-d10	18:18	37664	13594	0.958	500.0	444.616011	88.92	444.616011		0.543
1-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene					500.0			ND		0.000000
2-Chloronaphthalene-d7					500.0			ND		0.000000
Biphenyl	19:27	64546	29591	1.533	500.0	494.170358	98.83	494.170358		0.829
2,6-Dimethylnaphthalene	19:56	45531	18252	1.249	500.0	471.972292	94.39	471.972292	B	2.11
2,6-Dimethylnaphthalene-d1	19:47	38607	16085	0.977	500.0	447.189255	89.44	447.189255		0.533
C2 Alkylnaphthalenes				1.249		471.972292		471.972292	B	1.79
Acenaphthylene	20:49	69229	23963	1.244	500.0	457.390558	91.48	457.390558		0.256
Acenaphthylene-d8	20:46	60858	27441	1.548	500.0	444.733762	88.95	444.733762		0.192
Acenaphthene-d10	21:16	44193	16809	1.000	500.0	500.000000	100.00	500.000000		0.446
Acenaphthene	21:21	45515	18560	0.762	500.0	490.540622	98.11	490.540622		0.956
2,3,5-Trimethylnaphthalene	22:28	42362	19051	1.127	500.0	486.777691	97.36	486.777691		0.483
C3 Alkylnaphthalenes				1.127		486.777691		486.777691		0.409
Fluorene d-10				0.837	1000			ND		0.239
Fluorene-C13				0.796	1000			ND		0.151
Fluorene	22:52	55121	23720	0.915	500.0	432.755661	86.55	432.755661		0.350
Phenanthrene-d10	25:43	69601	31263	0.753	500.0	482.438466	96.49	482.438466		0.807
Phenanthrene	25:47	78655	37225	1.216	500.0	464.539204	92.91	464.539204	B	0.164
Anthracene-d10	25:52	48393	17237	0.655	500.0	385.854266	77.17	385.854266		0.928
Anthracene	25:56	59463	24506	1.059	500.0	403.396886	80.68	403.396886		0.189
1-Methylphenanthrene	27:40	56942	24722	0.870	500.0	470.025928	94.01	470.025928		0.459
Fluoranthene-d10	29:21	70372	31867	0.727	500.0	505.682594	101.14	505.682594		0.251
Fluoranthene	29:24	85838	39384	1.334	500.0	457.268844	91.45	457.268844	B	0.147
Pyrene-d10	30:02	95768	41138	1.000	500.0	500.000000	100.00	500.000000		0.182
Pyrene	30:05	86021	36837	1.369	500.0	446.510397	89.30	446.510397	B	0.143
Terphenyl-d14				0.796	1000			ND		0.0493
Benzo(a)Anthracene-d12	33:37	48932	21042	0.521	500.0	490.361045	98.07	490.361045		0.350
Benzo(a)anthracene	33:40	63677	28838	1.454	500.0	447.600122	89.52	447.600122	B	0.245
Chrysene-d12	33:44	53601	22597	0.557	500.0	502.667347	100.53	502.667347		0.327
Chrysene	33:48	65377	30892	1.363	500.0	447.442535	89.49	447.442535	B	0.244
Benzo(b)Fluoranthene-d12	36:35	48750	21038	0.847	500.0	501.768344	100.35	501.768344		0.853
Benzo(k)Fluoranthene-d12	36:39	57875	21062	1.002	500.0	503.370875	100.67	503.370875		0.721
Benzo(b)fluoranthene	36:39	66972	26421	1.508	500.0	455.618007	91.12	455.618007		0.709
Benzo(k)fluoranthene	36:42	56022	23221	1.136	500.0	425.865338	85.17	425.865338		0.940
Benzo(e)pyrene-d12	37:23	57346	20754	1.000	500.0	500.000000	100.00	500.000000		0.723
Benzo(e)pyrene	37:27	60020	22565	1.589	500.0	519.307236	103.86	519.307236	B	1.11
Benzo(a)Pyrene-d12	37:32	36379	12788	0.737	500.0	430.430438	86.09	430.430438		0.981
Benzo(a)pyrene	37:36	42784	16690	1.333	500.0	441.241231	88.25	441.241231	B	1.32
Perylene-d12	37:46	44822	16396	0.887	500.0	440.827701	88.17	440.827701		0.815
Perylene	37:50	47052	17066	1.178	500.0	445.684698	89.14	445.684698	B	1.17
3-Methylcholanthrene					500.0			ND		0.000000

VMK 4/26/06 4/27/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AD	**Prep Batch**	6100063	**Lot No**	H6D100000-063
Data File	/20060418s2/yh2w54l.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90144	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	4/18/2006	**Matrix**	AIR	**Date Sampled**	03/28/06
Analysis Time	21:04	**Initial Wt/Vol**	1	**Lims Test Code**	XXS09YA01
Anal Exp Date	05/20/06	**Extract Vol**	1	**Method**	DXLPAH
Instrument	H2A	**Dil Factor**	1.0	**Code**	YA1
Analyst	JMN				

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample		DL (ng/samp
Dibenz(ah)Anthracene-d14	41:05	21377	5949	0.405	500.0	460.676551	92.14	460.676551		0.744
Indeno(1,2,3-cd)pyrene-d12	41:07	41819	9740	0.779	500.0	468.043396	93.61	468.043396		0.387
Indeno(1,2,3-cd)pyrene	41:11	46127	11047	1.297	500.0	425.285709	85.06	425.285709	B	0.495
Dibenz(a,h)anthracene	41:11	37121	10789	2.059	500.0	421.751139	84.35	421.751139		1.22
Benzo(ghi)Perylene-d12	42:06	30674	8173	0.559	500.0	478.200979	95.64	478.200979		0.538
Benzo(ghi)perylene	42:12	44585	11901	1.698	500.0	427.968110	85.59	427.968110	B	0.450
13C6-Dibenzo(a,e)pyrene					500.0			ND		0.000000
Dibenzo(a,e)pyrene					500.0			ND		0.000000

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AD	**Prep Batch**	6100063	**Lot No**	H6D100000-063
Data File	/20060418s2/yh2w541.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90144	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	04/18/06 21:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1

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

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					**128.0000**		**128.0000**				
	Noise	00:00	00:00	0	25		10				
	Naphthalene	16:01	16:01	0	77657		22885			ABB	M
136					**136.0000**		**136.0000**				
	Noise	00:00	00:00	0	35		14				
	Naphthalene-d8	15:58	15:57	1	65140		18960			ABB	
142					**142.0000**		**142.0000**				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene	18:03	18:03	0	51916		19330			AVB	M
	1-Methylnaphthalene	18:23	18:23	0	48723		19525			ABB	M
152					**152.0000**		**152.0000**				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene-d10	17:58	17:58	0	42607		15746			ABV	
	1-Methylnaphthalene-d10	18:18	18:17	1	37664		13594			AVB	
	Acenaphthylene	20:49	20:48	1	69229		23963			ABB	
154					**154.0000**		**154.0000**				
	Noise	00:00	00:00	0	40		16				
	Biphenyl	19:27	19:26	1	64546		29591			ABB	
	Acenaphthene	21:21	21:22	-1	45515		18560			ABB	
156					**156.0000**		**156.0000**				
	Noise	00:00	00:00	0	85		34				
	2,6-Dimethylnaphthalene	19:56	19:55	1	45531		18252			ABB	M
160					**160.0000**		**160.0000**				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:46	20:47	-1	60858		27441			ABB	
162					**162.0000**		**162.0000**				
	Noise	00:00	00:00	0	10		4				
164					**164.0000**		**164.0000**				
	Noise	00:00	00:00	0	15		6				
	Acenaphthene-d10	21:16	21:16	0	44193		16809			ABV	
166					**166.0000**		**166.0000**				
	Noise	00:00	00:00	0	20		8				
	Fluorene	22:52	22:52	0	55121		23720			ABB	
168					**168.0000**		**168.0000**				
	Noise	00:00	00:00	0	18		7				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	38607		16085			AVV	M
169					**169.0000**		**169.0000**				
	Noise	00:00	00:00	0	23		9				
170					**170.0000**		**170.0000**				
	Noise	00:00	00:00	0	18		7				
	2,3,5-Trimethylnaphthal	22:28	22:29	-1	42362		19051			ABB	
172					**172.0000**		**172.0000**				
	Noise	00:00	00:00	0	8		3				

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

Workorder	H2W541AD	**Prep Batch**	6100063	**Lot No**	H6D100000-063
Data File	/20060418s2/yh2w541.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90144	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	04/18/06 21:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
176					**176.0000**		**176.0000**				
	Noise	00:00	00:00	0	13		5				
178					**178.0000**		**178.0000**				
	Noise	00:00	00:00	0	13		5				
	Phenanthrene	25:47	25:48	-1	78655		37225			ABV	M
	Anthracene	25:56	25:55	1	59463		24506			AVV	
188					**188.0000**		**188.0000**				
	Noise	00:00	00:00	0	50		20				
	Phenanthrene-d10	25:43	25:44	-1	69601		31263			ABV	
	Anthracene-d10	25:52	25:52	0	48393		17237			AVB	
192					**192.0000**		**192.0000**				
	Noise	00:00	00:00	0	25		10				
	1-Methylphenanthrene	27:40	27:41	-1	56942		24722			ABB	
202					**202.0000**		**202.0000**				
	Noise	00:00	00:00	0	13		5				
	Fluoranthene	29:24	29:24	0	85838		39384			ABV	M
	Pyrene	30:05	30:05	0	86021		36837			ABV	M
212					**212.0000**		**212.0000**				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene-d10	29:21	29:21	0	70372		31867			ABV	
	Pyrene-d10	30:02	30:02	0	95768		41138			ABV	
228					**228.0000**		**228.0000**				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)anthracene	33:40	33:40	0	63677		28838			ABV	M
	Chrysene	33:48	33:48	0	65377		30892			AVB	M
240					**240.0000**		**240.0000**				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)Anthracene-d12	33:37	33:36	1	48932		21042			ABV	
	Chrysene-d12	33:44	33:44	0	53601		22597			AVB	
244					**244.0000**		**244.0000**				
	Noise	00:00	00:00	0	3		1				
252					**252.0000**		**252.0000**				
	Noise	00:00	00:00	0	45		18				
	Benzo(b)fluoranthene	36:39	36:39	0	66972		26421			ABV	
	Benzo(k)fluoranthene	36:42	36:42	0	56022		23221			AVB	
	Benzo(e)pyrene	37:27	37:27	0	60020		22565			ABV	M
	Benzo(a)pyrene	37:36	37:36	0	42784		16690			AVV	M
	Perylene	37:50	37:50	0	47052		17066			AVB	M
264					**264.0000**		**264.0000**				
	Noise	00:00	00:00	0	30		12				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	48750		21038			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	57875		21062			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	57346		20754			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	36379		12788			AVV	

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

STL - Knoxville

IsoCalc Preliminary Peak Report

PAH's by LRMS Extended List

IsoCalc

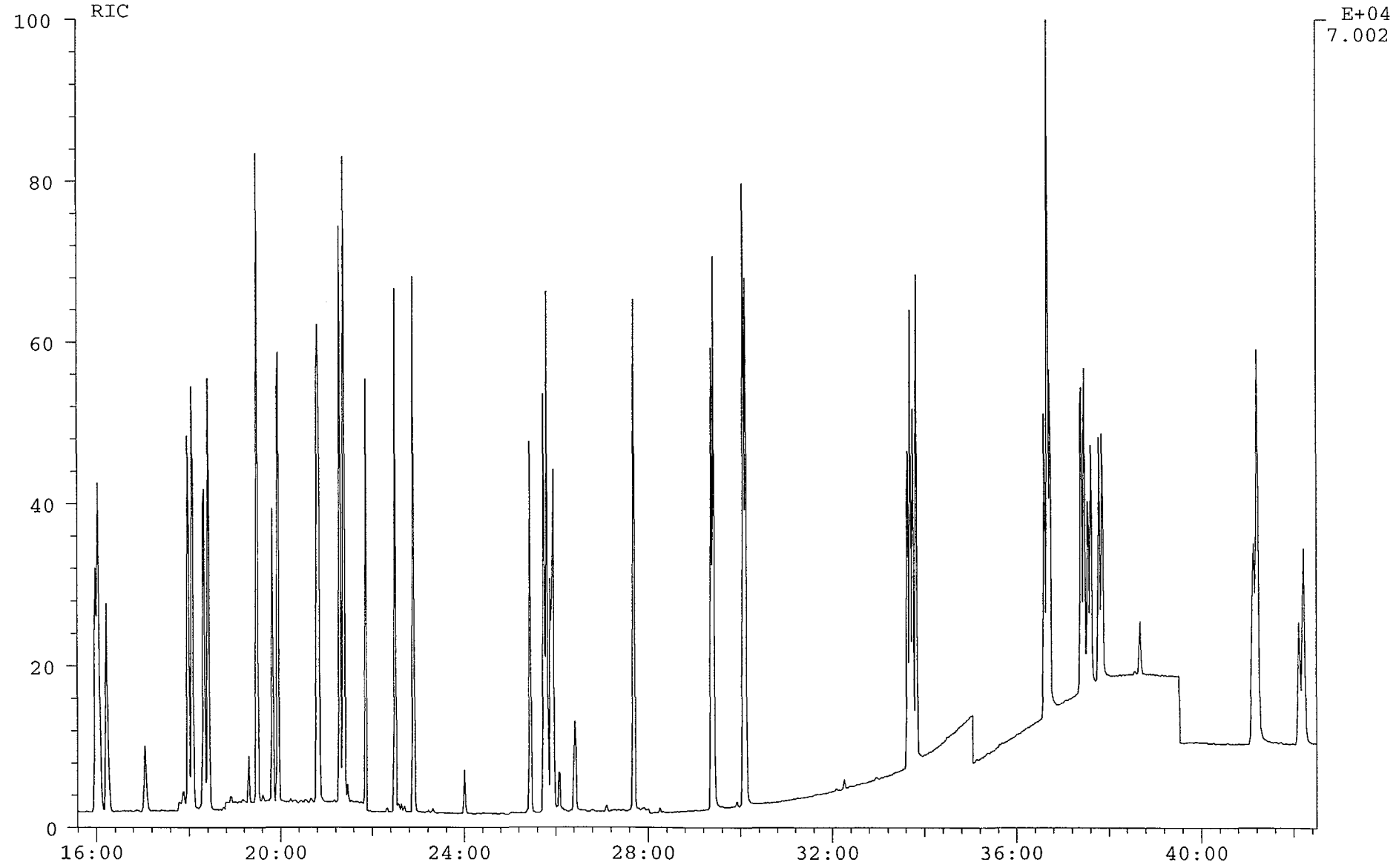
Workorder	H2W541AD	**Prep Batch**	6100063	**Lot No**	H6D100000-063
Data File	/20060418s2/yh2w541.d	**Prep Date**	04/10/06	**SDG No**	
Analysis ID	90144	**Prep Exp Date**	04/18/06	**Date Received**	04/10/06
Analysis Date	04/18/06 21:04	**Matrix**	AIR	**Date Sampled**	03/28/06
Anal Exp Date	05/20/06	**Initial Wt/Vol**	1 Sample	**Lims Test Code**	XXS09YA01
Instrument	H2A	**Extract Vol**	1 mL	**Method**	DXLPAH
Analyst	JMN	**Diluton Factor**	1.00	**Code**	YA1
		View Small Peaks?	False	**View deleted peaks?**	False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					**264.0000**		**264.0000**				
	Perylene-d12	37:46	37:46	0	44822		16396			AVV	
268					**268.0000**		**268.0000**				
	Noise	00:00	00:00	0	43		17				
276					**276.0000**		**276.0000**				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene	41:11	41:12	-1	46127		11047			ABV	M
	Benzo(ghi)perylene	42:12	42:13	-1	44585		11901			ABB	M
278					**278.0000**		**278.0000**				
	Noise	00:00	00:00	0	30		12				
	Dibenz(a,h)anthracene	41:11	41:12	-1	37121		10789			ABB	
288					**288.0000**		**288.0000**				
	Noise	00:00	00:00	0	13		5				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	41819		9740			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	30674		8173			ABB	
292					**292.0000**		**292.0000**				
	Noise	00:00	00:00	0	13		5				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	21377		5949			ABB	
302					**302.0000**		**302.0000**				
	Noise	00:00	00:00	0	8		3				
308					**308.0000**		**308.0000**				
	Noise	00:00	00:00	0	8		3				

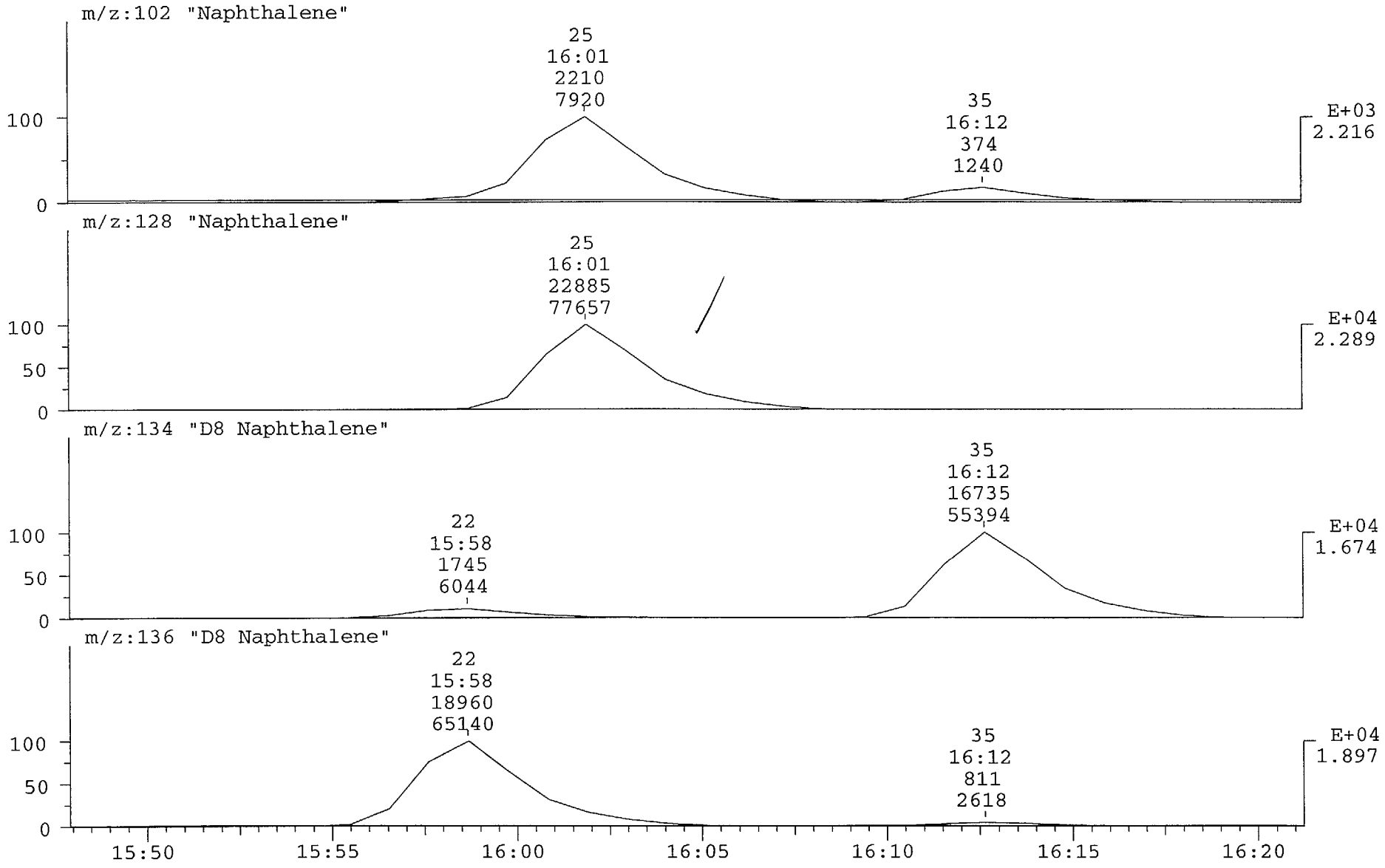
Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO:	yh2w541	18-APR-06	Elapse:	42:06	1369
Samp:	WO=h2w541ad Meth=YA1 Dil=1		Start :	21:04:00	1384
Comm:	Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i				
Mode:	EI +VE + LMR (LIN) UP LR NETCDF		Study :	6100063	
Oper:	JMN Client: H6D100000-063L		Inlet :		
Peak:	100.00 ppm	Label wndw: 1365 > 1373	Masses:	0 > 308	
Area:	5, 0.50, 15	Baseline : 100, 3	Label :	0, 3.0	
Disp:	Height Area				

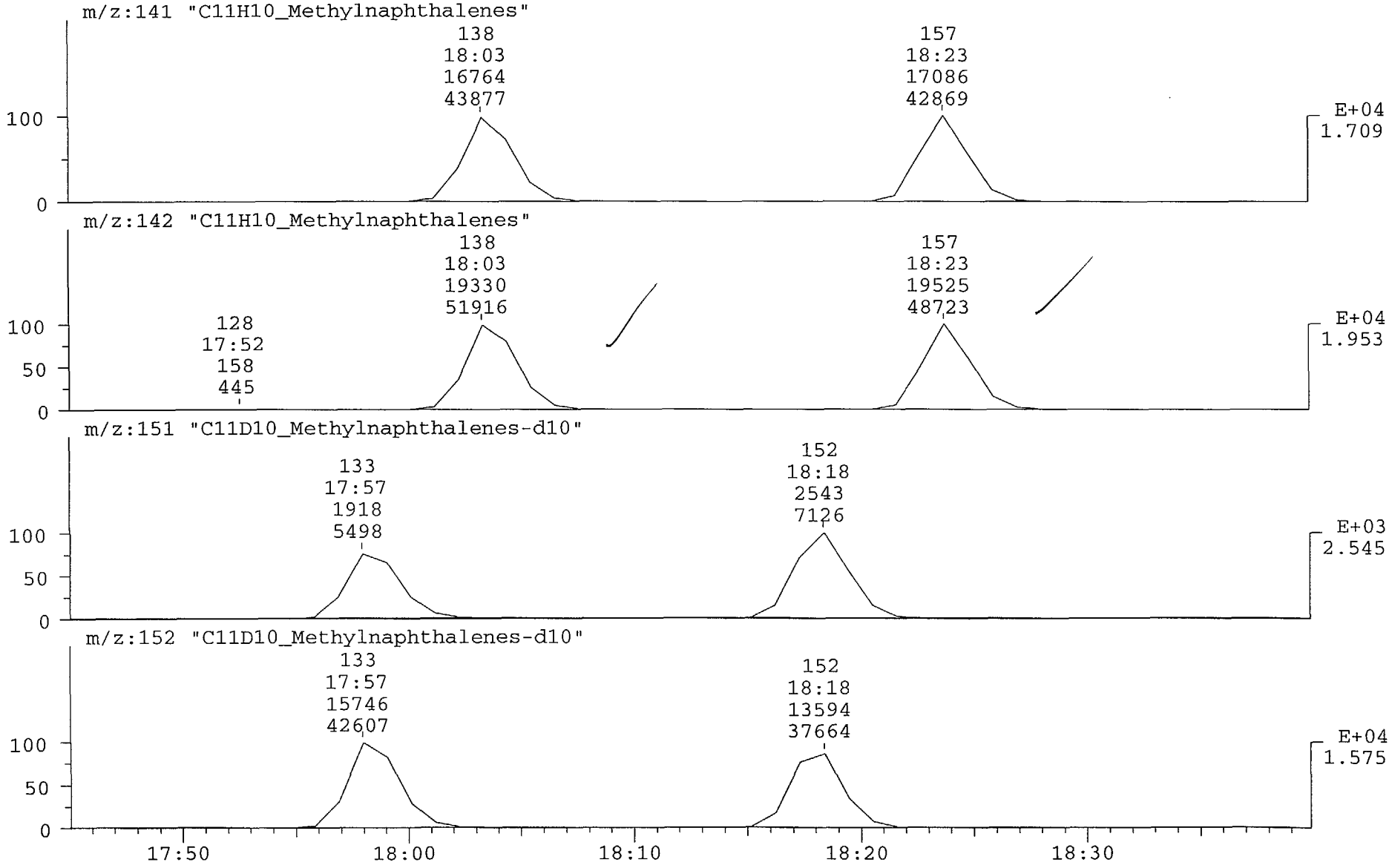
Lnt/Calc: J 4/19/06
QC 1Rev VMIC 4/25/06
VMIC 4/27/06



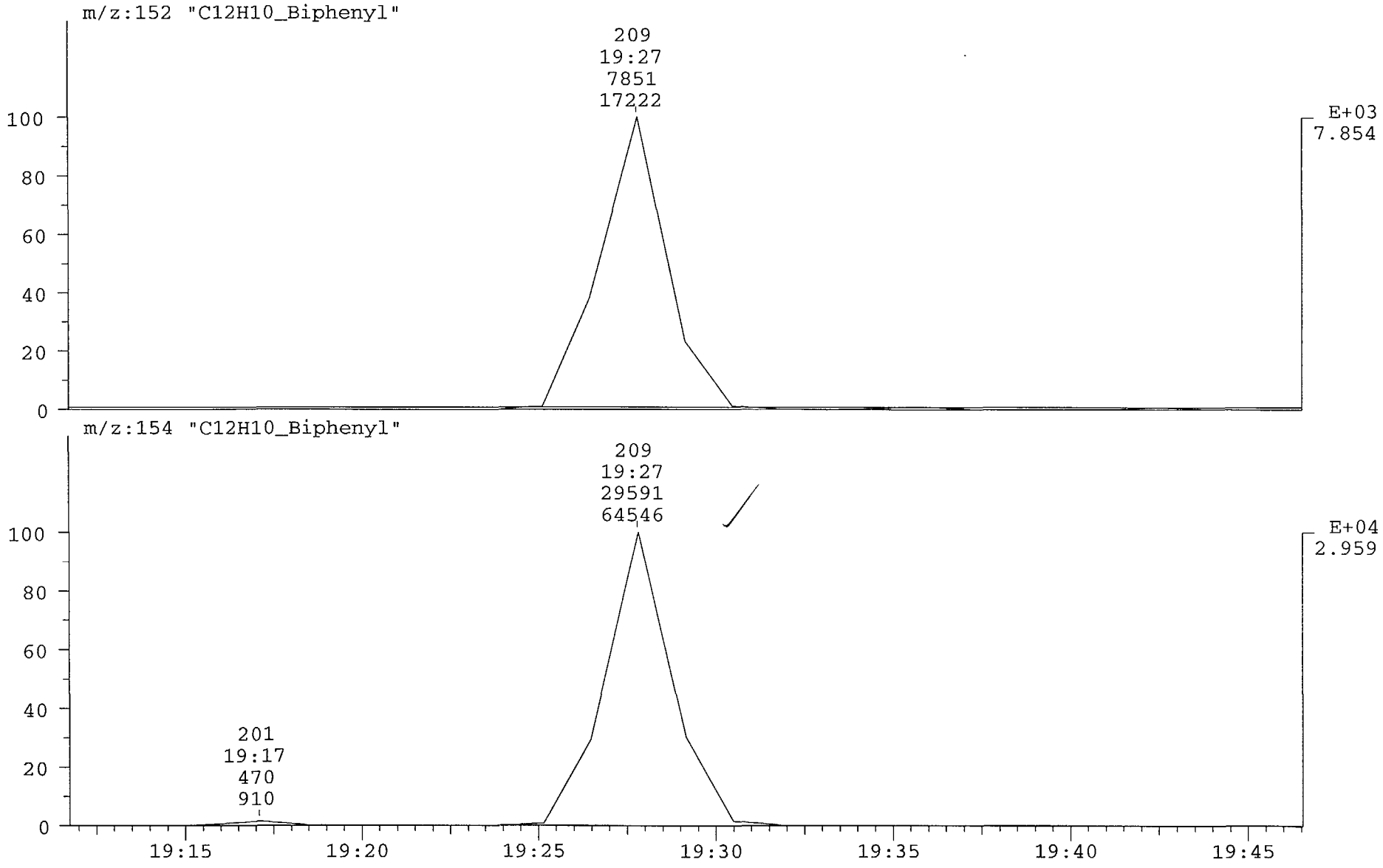
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 12 > 43 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



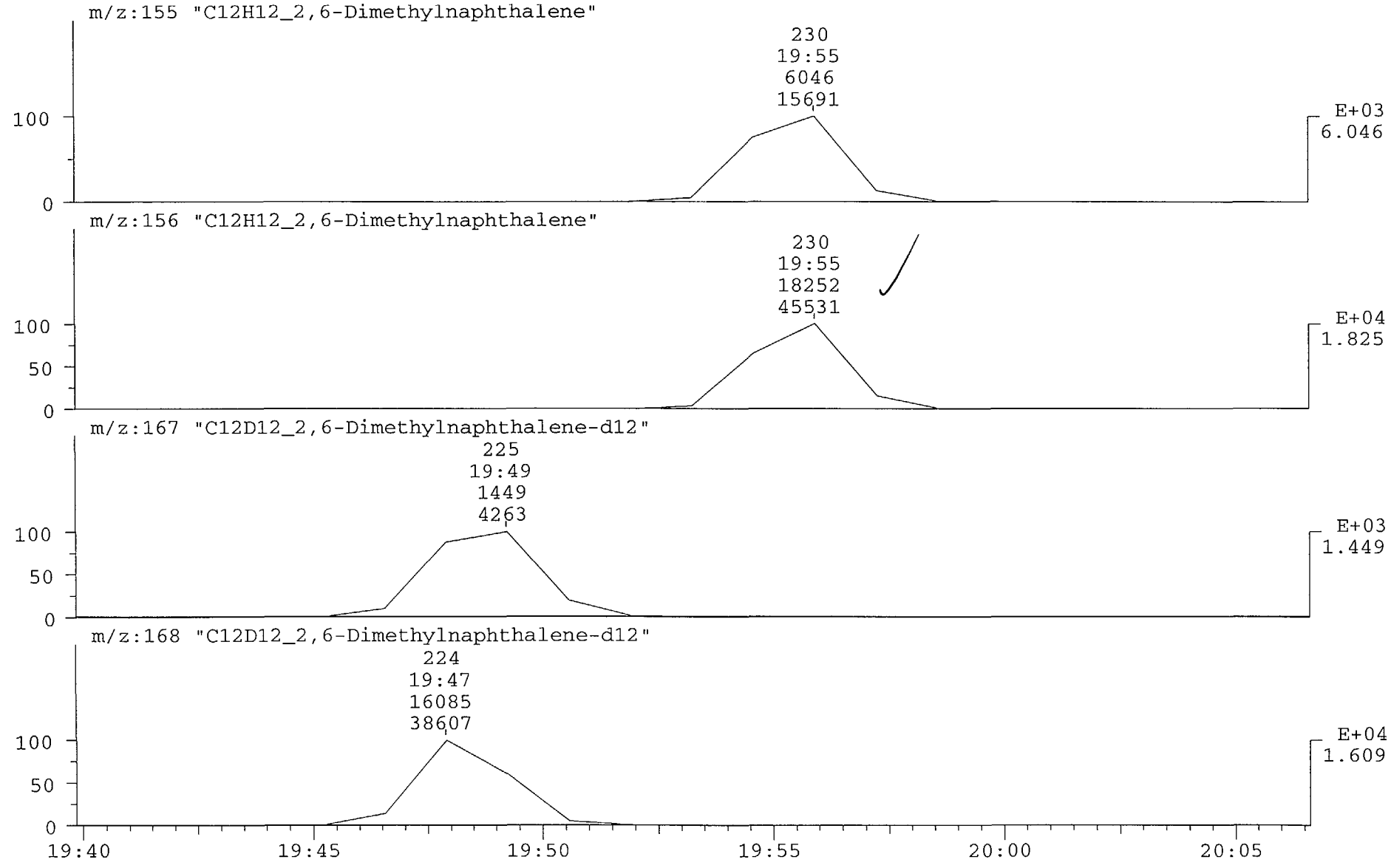
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 121 > 172 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



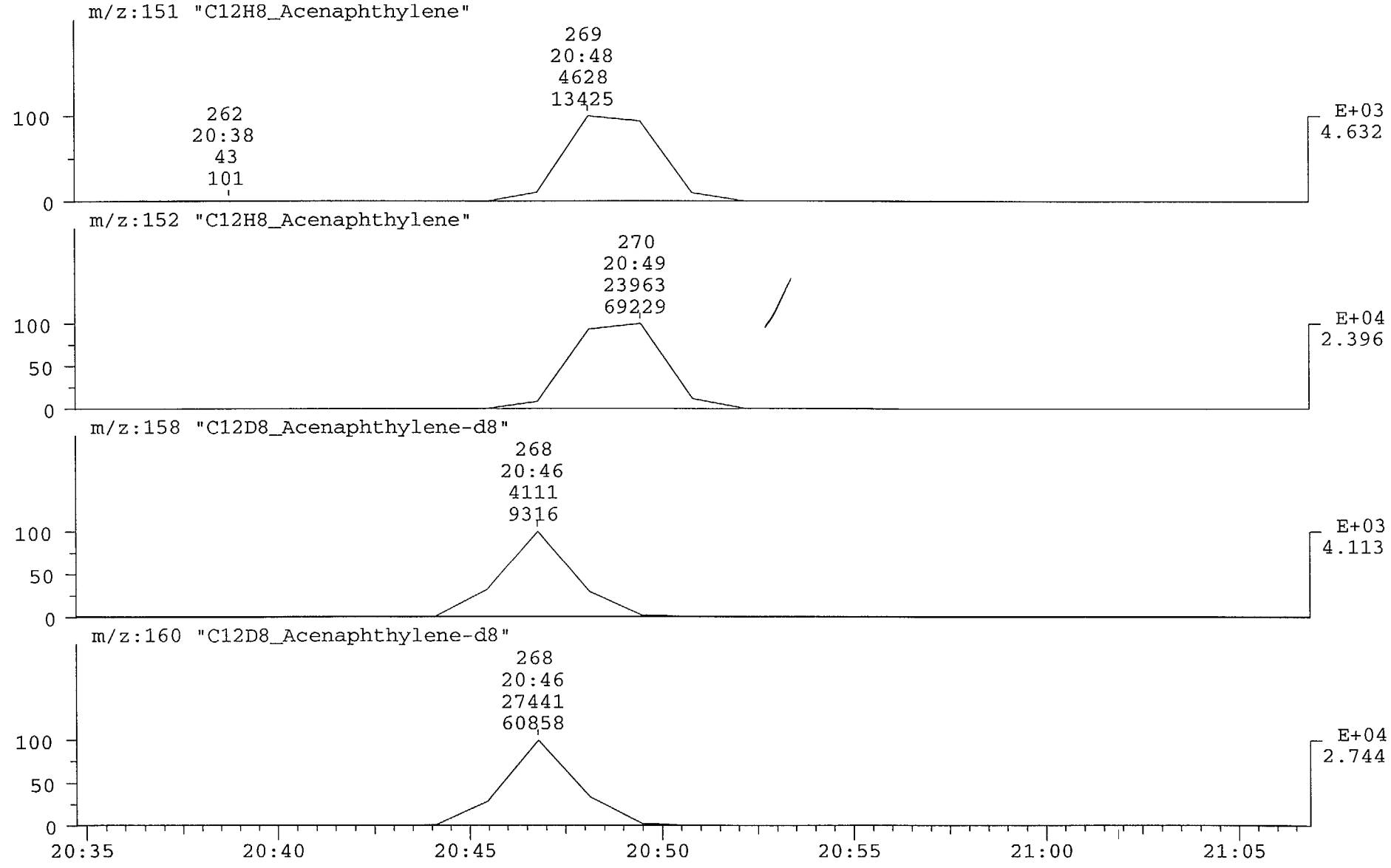
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CHRO:  yh2w541                                18-APR-06   Elapse:   40:59      1326
Samp:  WO=h2w541ad Meth=YA1 Dil=1                         Start :   21:04:00   1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                   Study :   6100063
Oper:  JMN           Client:  H6D100000-063L              Inlet :
Peak:  100.00  ppm     Label wndw:   197 > 223            Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3              Label :   -2, 3.0
Disp:  Height  Area
```



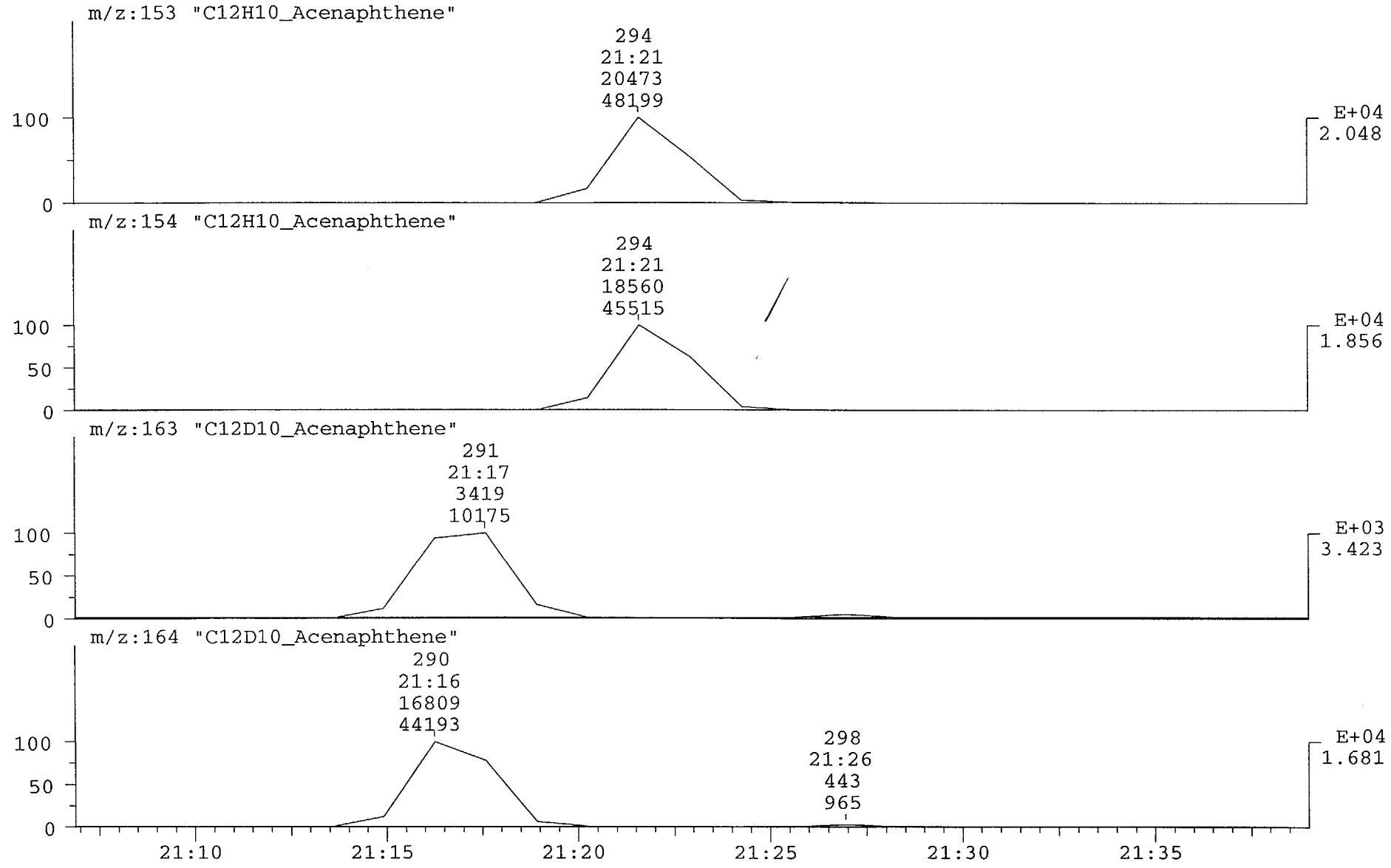
CHRO: yh2w541 18-APR-06 Elapse: 15:36.1 1
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 218 > 238 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



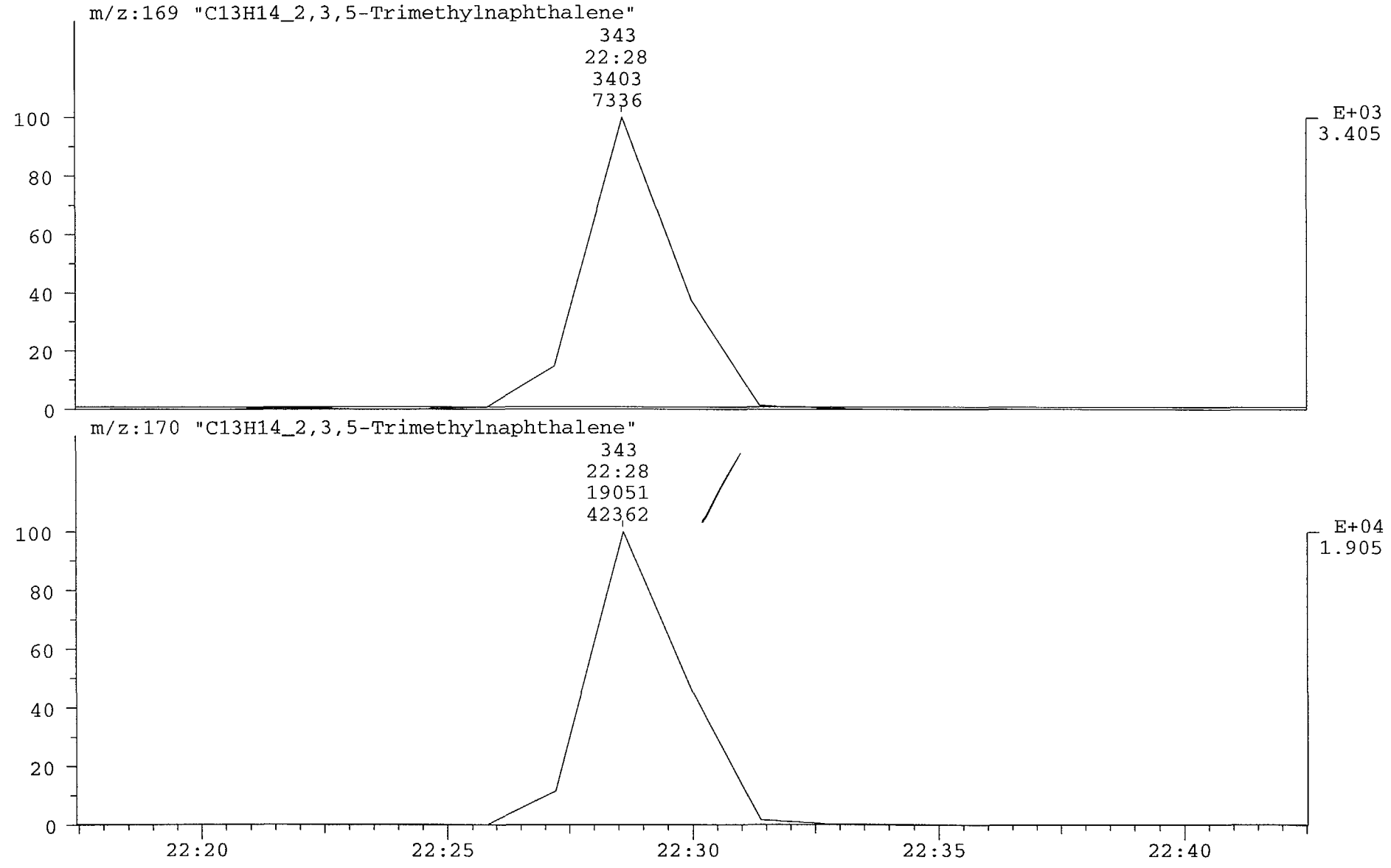
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 259 > 283 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



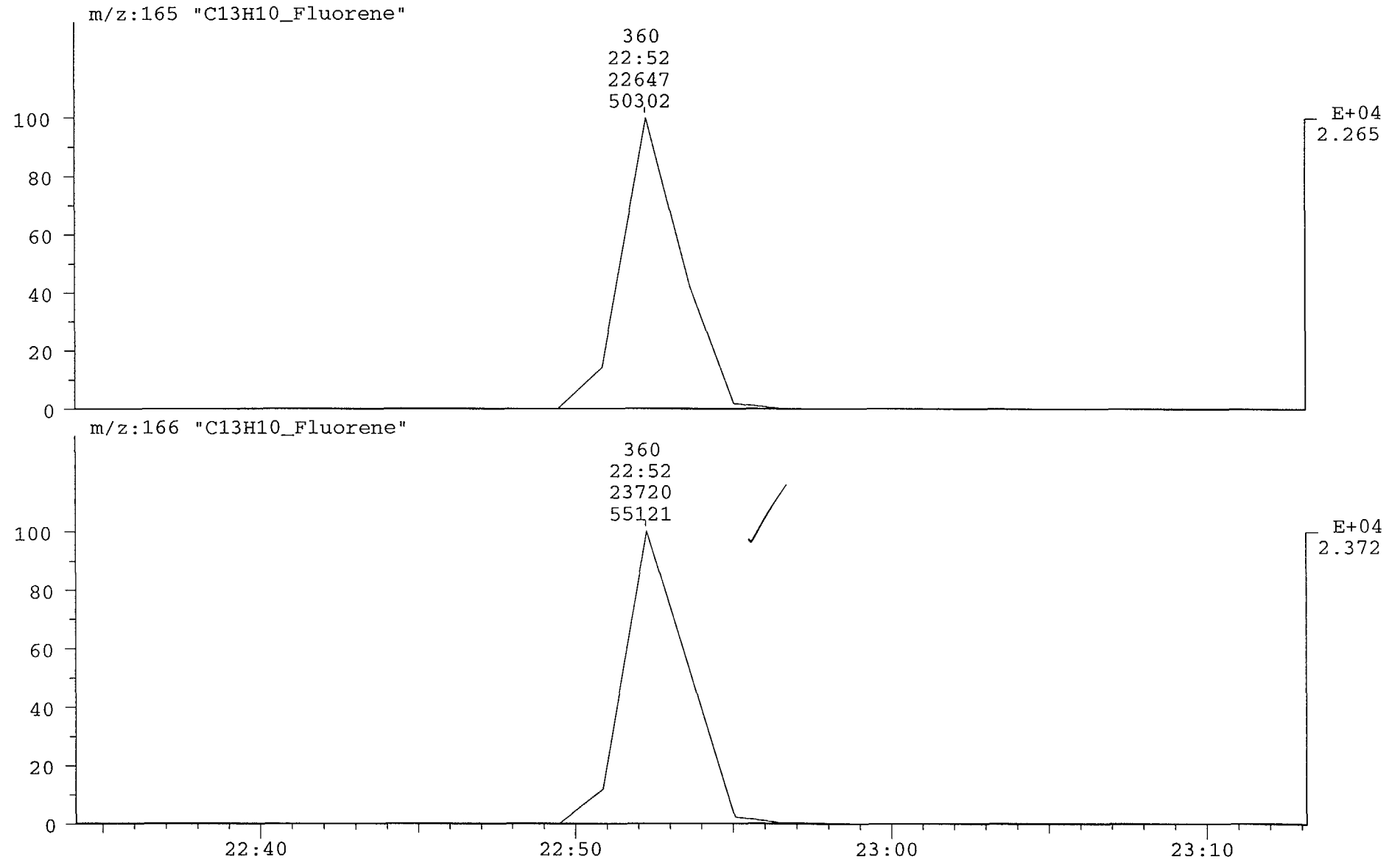
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 283 > 307 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



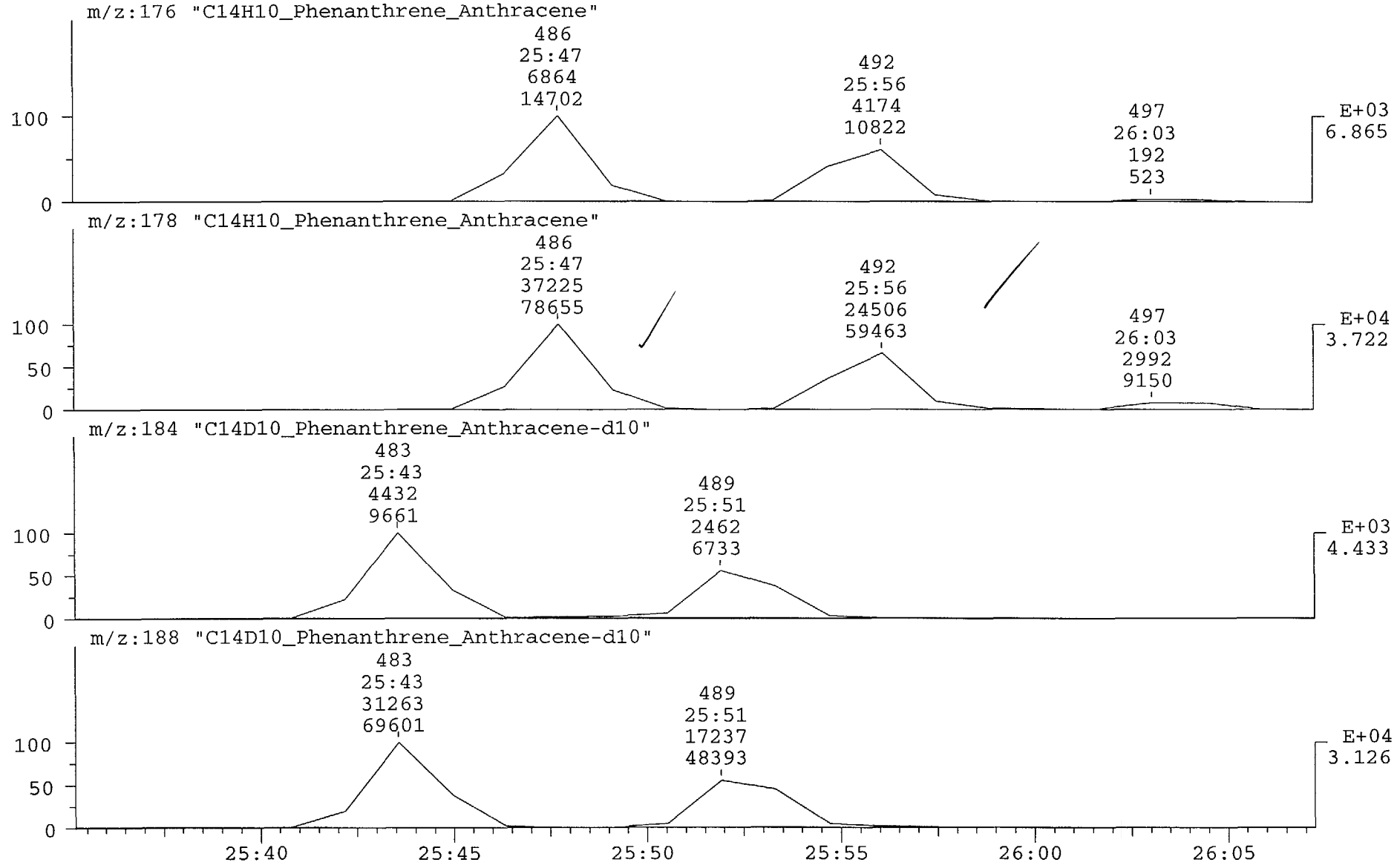
```
CHRO:  yh2w541                                  18-APR-06   Elapse:   40:59       1326
Samp:  WO=h2w541ad Meth=YA1 Dil=1                           Start :   21:04:00    1384
Comm:  Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode:  EI +VE + LMR  (LIN) UP LR NETCDF                     Study :   6100063
Oper:  JMN           Client:  H6D100000-063L                Inlet :
Peak:  100.00  ppm     Label wndw:   335 > 353              Masses:   0 > 308
Area:  5, 0.50, 15     Baseline  :   100, 3                 Label :   -2, 3.0
Disp:  Height  Area
```



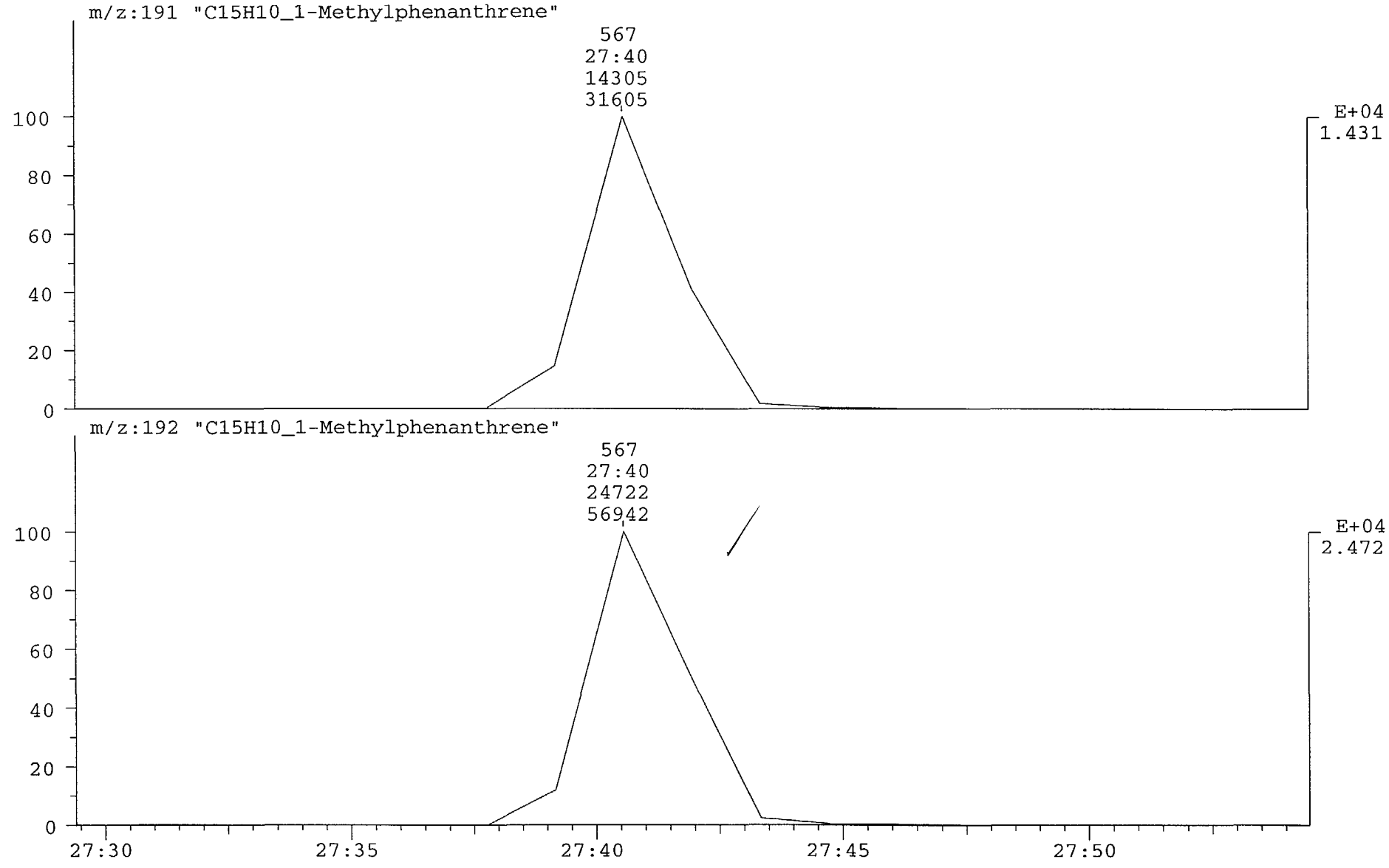
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 347 > 375 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



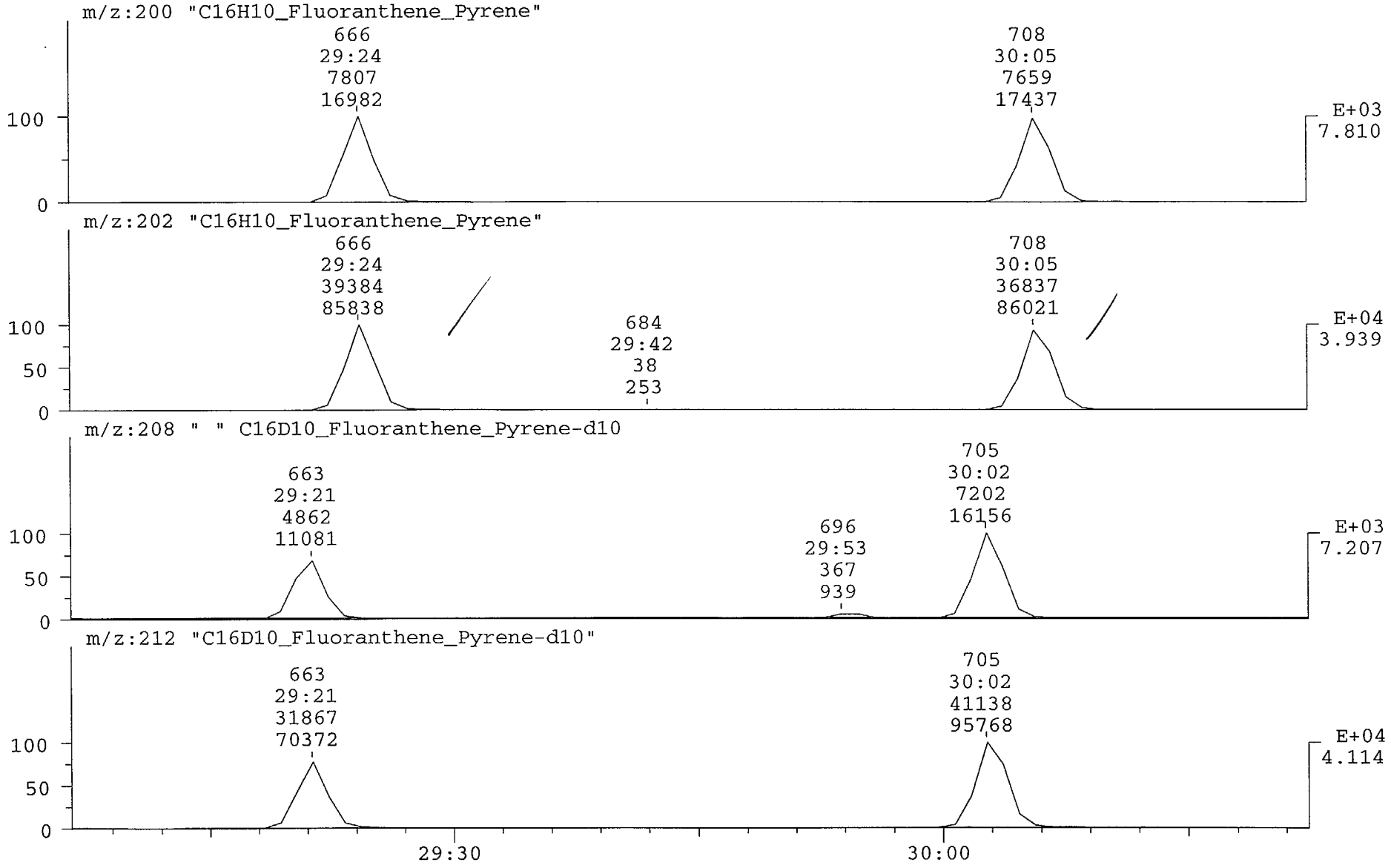
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 477 > 500 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



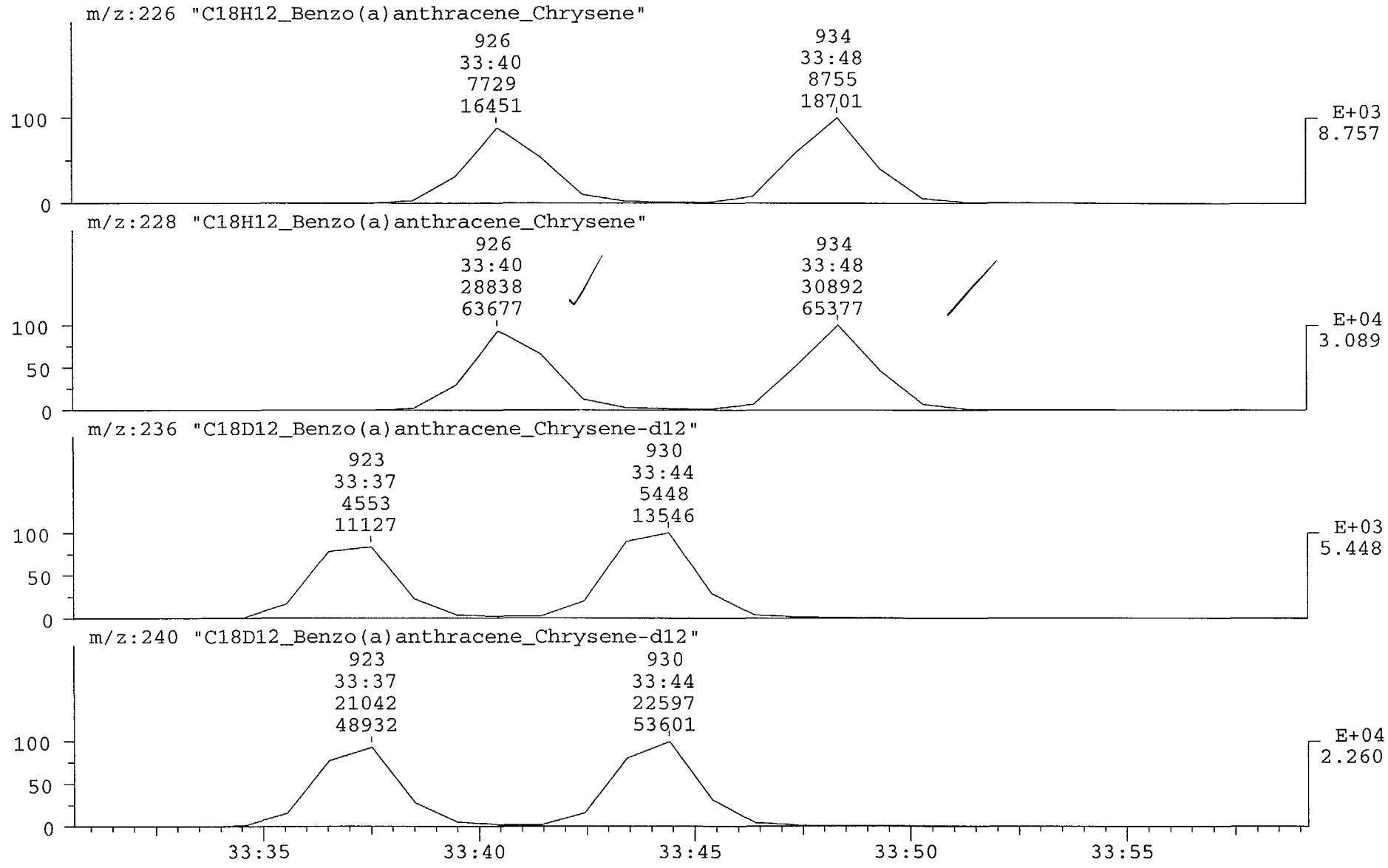
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



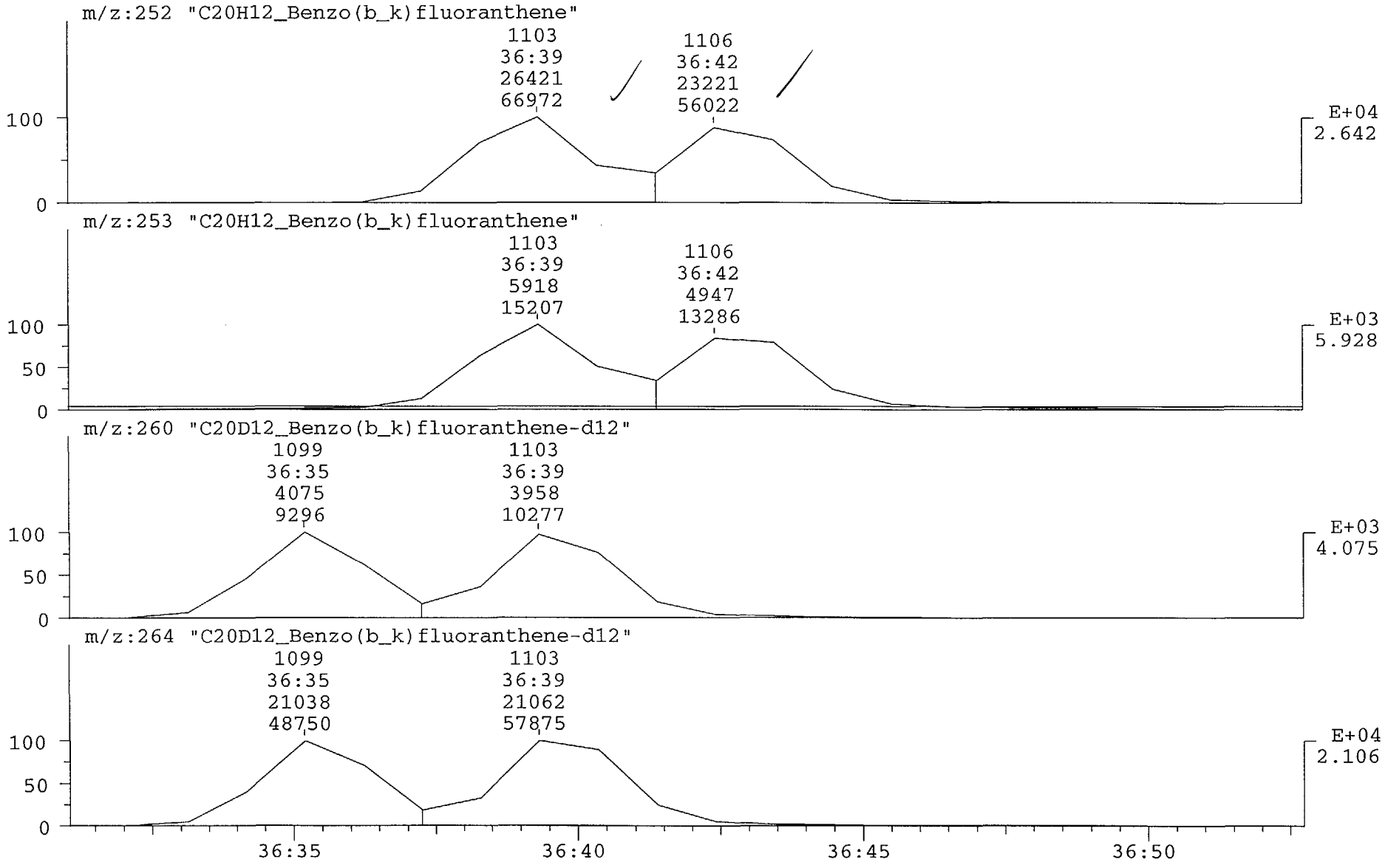
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 648 > 725 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area



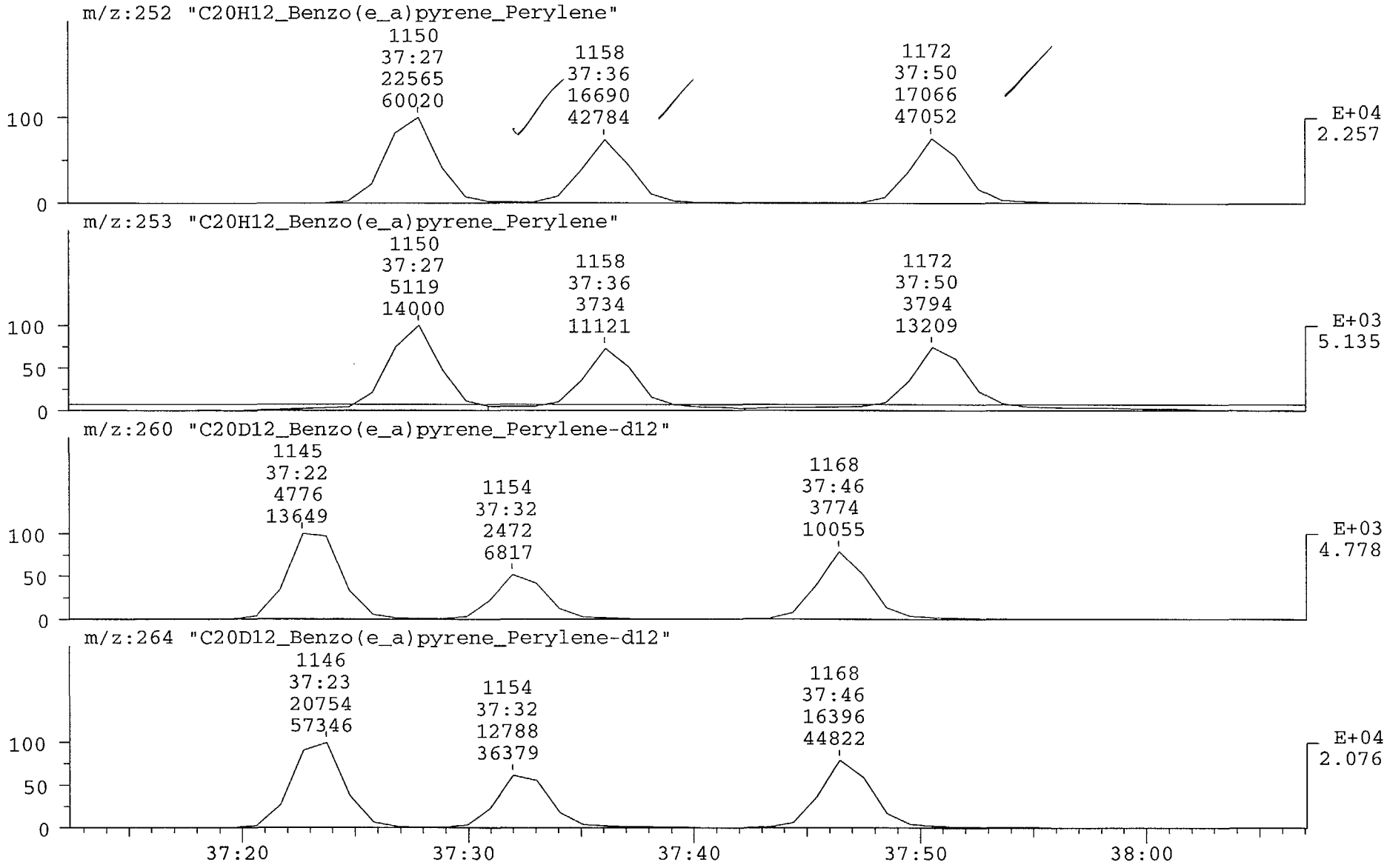
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 916 > 945 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



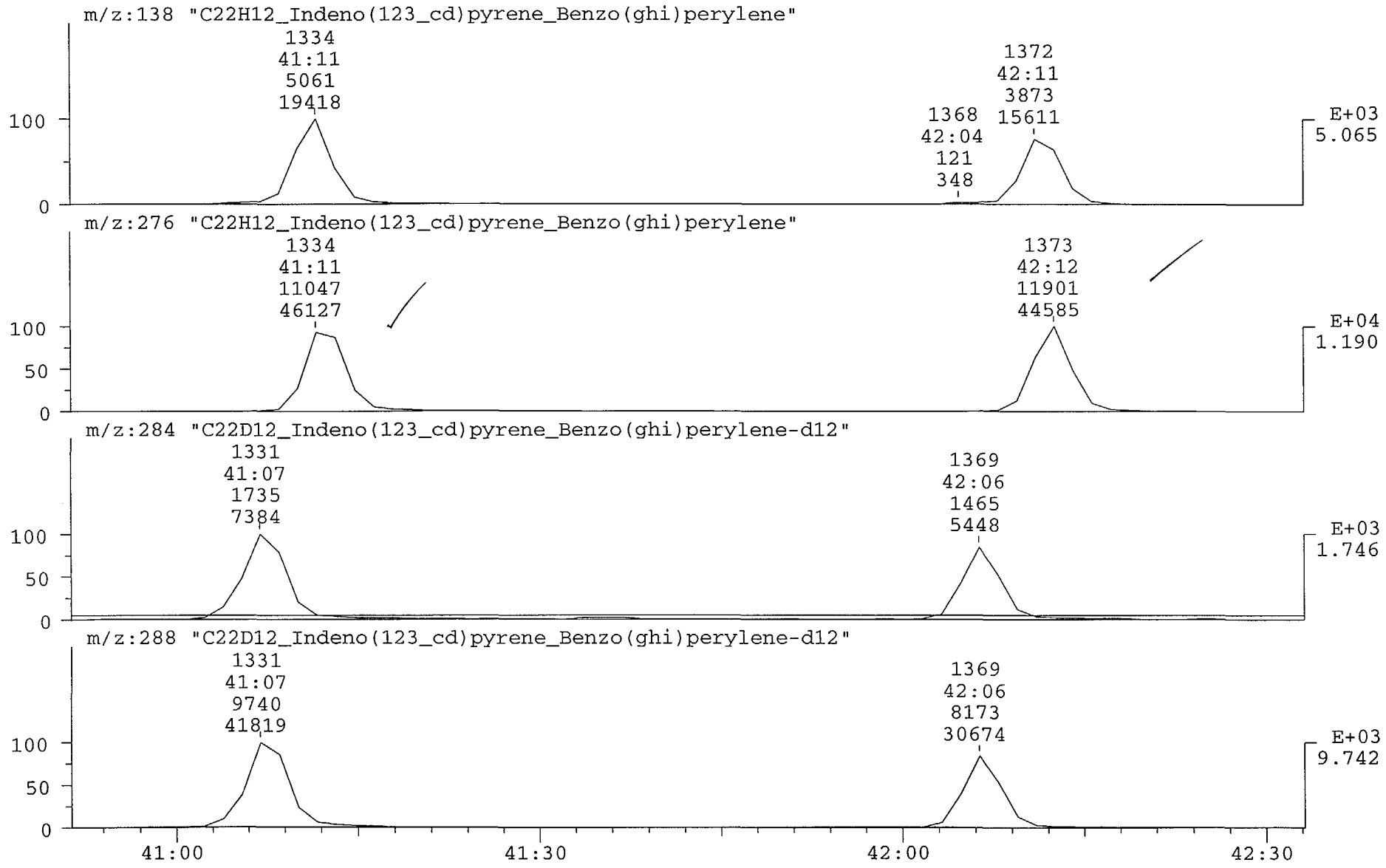
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 1095 > 1116 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



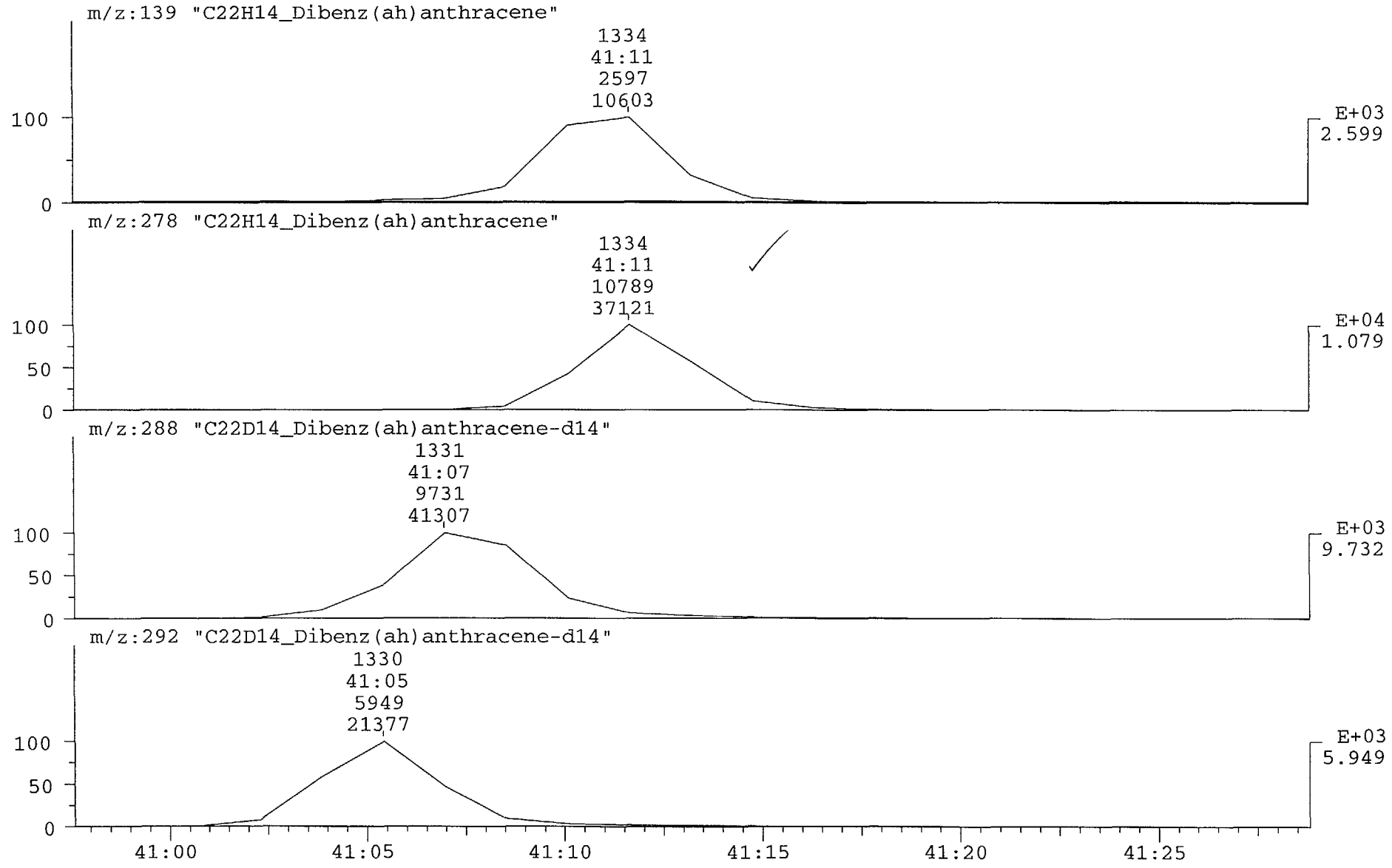
CHRO: yh2w541 18-APR-06 Elapse: 40:59 1326
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 1135 > 1188 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w541 18-APR-06 Elapse: 41:02 1328
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 1321 > 1387 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



CHRO: yh2w541 18-APR-06 Elapse: 41:02 1328
Samp: WO=h2w541ad Meth=YA1 Dil=1 Start : 21:04:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study : 6100063
Oper: JMN Client: H6D100000-063L Inlet :
Peak: 100.00 ppm Label wndw: 1325 > 1345 Masses: 0 > 308
Area: 5, 0.50, 15 Baseline : 100, 1 Label : -2, 3.0
Disp: Height Area



```
File: YH2W54L.D
Date Acquired: 18 Apr 2006   9:04 pm
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2W541AD
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number:  4
Sample Mult:  1
Sample Amount:  0
Exp. Barcode:
Act. Barcode:

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

Beginning Export Process Wed Apr 19 14:08:04 2006
d:\cdffiles\YH2W54L.CDF Translated at Wed Apr 19 14:08:04 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
             - Started Conversion:  Wed Apr 19 08:34:03 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2w541.dat
NetCDF File (input): /usr/users/hp/data/yh2w541.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
ICIS cdf2dat - Finished Conversion:  Wed Apr 19 08:34:04 EDT 2006

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

Miscellaneous Data

6100051

STL Knoxville, LRMS-SIM GC/MS Data Review / Narrative Checklist LOT/Project # H6D030241
Method: PAHs and Selected SVOCs - KNOX-ID-0016, Revision 2 Page 1 of 2

Instrument:						
Scanned File Names:						

Review Items **A. Tune / Calibration**	N/A	Yes	No	Why is data reportable?	2nd ✓
1. Were all samples injected within 12 hr of DFTPP?		✓			✓
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results					
1. Were all special project requirements met?		✓			✓
2. Were prep/dilution factors & header information verified?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Sample prep and analyses done within preparation and analytical holding time (HT)? (extracted ≤ 14 days after collection and analyzed ≤ 40 days after extraction) *If no, list samples:* _____		✓		❑ *[ht1] HT expired upon receipt.* ❑ *[ht2] Client requested analysis after HT expired.** ❑ *[ht3]* Re-extraction done after HT expired.	✓
5. Are internal standards within QC limits? *If no, list samples and reason* Sample / Sample		✓		❑ Internal standards are outside the QC limits. However, the S/N is ≥ 10:1. ❑ See the discussion of the impact to analytical results in the case narrative.	✓
6. Is the signal/noise ratio for all labeled analytes ≥ 10:1 for quantitation ions?		✓			✓
7. Is the signal/noise ratio for all target analytes ≥ 2.5:1 for the quantitation ions?		✓			✓
8. Is the confirmation ion present in the target analyte?		✓		❑ Q flags are used for analytes not having confirmation ions.	✓
9. If dilutions were performed, list samples and reasons: Sample / Reason / Sample / Reason	✓	4 VHL 2/25/02		❑ [dil1] Conc. of (ANALYTE) > calibration range. Results that were above the calibration range on the initial run were reported from the dilution run. ❑ [dil2] Conc. of several compounds > calibration range. The determination to report the samples without further dilution was made after consultation with the client.* outside of calibration range.* ❑ If dilutions > 1:10 were needed, then a smaller aliquot of sample was extracted, or analysis using full scan mode under method 8270 was done.	✓

* Such action must be taken in consultation with client.

STL Knoxville, LRMS-SIM GC/MS Data Review / Narrative Checklist **LOT/Project #** H6D030241
Method: PAHs and Selected SVOCs - KNOX-ID-0016, Revision 2 **Page 2 of 2**

B. CLIENT SAMPLE AND QC SAMPLE Results	N/A	Yes	No	Why is data reportable?	2nd ✔
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?		✓			✓
11. Have alternate hits and manual integrations been verified as correct?		✓			✓
12. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓
13. Was a narrative prepared and all deviations noted?		✓			✓
C. Preparation/Matrix QC					
1. LCS done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID:* _____		✓		❑ **[lcs1] Insufficient sample for reanalysis.*** ❑ **[lcs2] LCS %R high and all analyte(s) were <RL in associated samples.** ❑ **[lcs3] Problem is confined to the LCS/D**	✓
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
3. Method blank surrogate recoveries within QC limits?		✓		❑ **[mb1] Internal Standard recoveries OK and there is no analyte >RL in samples associated with blank.***	✓
4. Are all analytes present in the method blank ≤ RL? *If no, list blank ID:* _____		✓		❑ **[mb2] Observed in blank. Efforts to correct are underway.** ❑ **[mb3] No analyte > RL in associated samples.*** ❑ **[mb4] Sample results > 20x higher than blank.** ❑ **[mb5] Insufficient sample for reanalysis.***	✓
5. MS/MSD done per batch and are all recoveries and RPDs within laboratory generated QC limits? *If no, list MS/MSD ID:* _____	✓			❑ [ms1] LCS acceptable - sample matrix effects. ❑ [ms2] LCS acceptable. High native analyte concentration relative to spike level. ❑ [rpd] LCS acceptable. RPD out due to lack of sample homogeneity.	✓
6. Were MS run #'s assigned correctly?	✓				✓
D. Other					
1. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓
2. Are the correct scanned file names listed at the top of the data review checklist?	✓				✓
3. Were the standards scanned properly with runlogs?	✓				✓

Analyst: VMC	Date: 4/25/04	2nd Level Reviewer:	Date: 4/27/04
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

STL Knoxville **Specialty Organics Prep Batch Review/Checklist** **Batch #** 6100051 4690

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

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Does the batch contain no more than 20 field samples? (Excluding MB, LCS, LCSD, MS, & MSD)		✓			✓
2. Were the samples extracted by the proper method?		✓			✓
3. Were the samples extracted within the required holding times?		✓			✓
4. For waters by 1613B, if visible solids were present, were solids determined to be ≤ 1%?	✓				✓
5. Were all project specific requirements met as noted on the Lot Checklists and Sample Worksheets?		✓			✓
6. Were all required QC samples prepared & extracted with the batch at method required frequency?		✓			✓
7. Were MS Run# properly assigned and samples entered on QC tracking Sheet?	✓				✓
8. Were samples requested properly and request form completed, signed, and dated?		✓			✓
9. Were the correct weights and volumes entered in Quantims for all samples?		✓			✓
10. Were the internal standards properly spiked and the spikes verified? Were the spike solution ID and spike volumes entered correctly and verified?		✓			✓
11. Were alternate standards properly spiked and the spikes verified? Were the spike solution ID and spike volumes entered correctly and verified?	✓				✓
12. Were all cleanup steps properly documented by initials and date?	✓				✓
13. Was the final volume checked and verified against the supplemental benchsheet and Quantims?		✓			✓
14. Are the final extracts free of water, precipitates, multiple phases, and color?			✓	NO CLEANUPS	✓
15. Were all appropriate notes and observations recorded on the prep benchsheet and in Quantims?		✓			✓
16. Were all Quantims batch information completed including; • Batch reviewed • Correct volumes entered • Correct completion date entered • Samples released		✓			✓
17. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including; • Prep Benchsheet • Supplemental Benchsheet • Standard concentration forms or copies of logbook pages, for all IS, RS, SS, CS, Native and Alternate standards. • Lot Checklists for all lots in the batch • Sample worksheets for all samples in the batch in proper order as recorded on tracking sheet		✓			✓
18. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓

Analyst: SDO	Date: 4/13/06	2nd Level Reviewer :	Date: ALJ 4/13/06
Comments:		Comments:	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/13/06
Time: 8:36:31

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
—	—	MS/MSD	—	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			—	—	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 013451 Susan D. Oxendine
400856 Alan Sudderth

Concentrationist: 013451 Susan D. Oxendine

****
* *
* **QC BATCH: 6100051** *
* *
****

PREP DATE: 4/10/06 16:00
COMP DATE: 4/13/06 10:30

Reviewer/Date: OXENDINS / 4/13/06

PAHs & Selected SVOCs (HRGC/LRMS)
SOXHLET (NOMINAL), Airtrains: Filter/Rinse

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
4/18/06	4/24/06	H6D030241-001 **H2H2A-1-AA**	D	IN	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/19/06	4/24/06	H6D030241-004 **H2H2V-1-AA**	D	IN	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/18/06	4/24/06	H6D030241-007 **H2H20-1-AA**	D	IN	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/20/06	4/24/06	H6D030241-011 **H2H24-1-AA**	D	IN	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/18/06	4/24/06	H6D030241-015 **H2H28-1-AA**	D	IN	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/18/06	0/00/00	H6D100000-051 **H2W5L-1-AA**B		IN	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/18/06	0/00/00	H6D100000-051 **H2W5L-1-ACC**		IN	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:07,2.0ML,NATIVE 3377:05,2.0ML,DEUTERATED
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/13/06
Time: 8:36:31

QC BATCH: 6100051

PREP DATE: 4/10/06 16:00
COMP DATE: 4/13/06 10:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/18/06	0/00/00	H6D100000-051 **H2W5L-1-ADL**	R	IN	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:07,2.0ML,NATIVE 3377:05,2.0ML,DEUTERATED

COMMENTS:

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

NUMBER OF WORK ORDERS IN BATCH: 8

4692

STL Knoxville

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

QC Batch No 6100051 Relinquished to GC/MS By: S Oxendine Date: 4/13/06

Received in GC/MS By: Date:

Work Order Number		Column: DB-5 or RTX-5				Column: DB-5 or RTX-5				Column: DB-225 or RTX-225			
		Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code
H2H2A1AA		4/18/06	Hg A		OK								
H2H2V1AA					OK								
H2H201AA					OK								
H2H241AA					OK								
H2H281AA					OK								
H2W5L1AA	B	4/13/06	Hg A		OK								
H2W5L1AC	C				OK								
H2W5L1AD	L				OK								

Comments: _____

4693

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100051

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

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

Native MS/D Spiked By: NA **Verified By:** NA **Date:** N/A

Work Order Number		Filtered Y/N?	Vol of Sampling Surrogate (uL)	Soxhlet Started (Date/Time)	Soxhlet Finished (Date/Time	Blow Down (Initial/Date)	Recovery Standard (Book:Page)	Recovery Std Vol (uL)	Vol Delivered (uL)	Comments
H2H2A1AA		N	NA	4/10/06 15:00	4/11/06 8:30	SDO 4/13/06	2904:65	25 uL	500 uL	
H2H2V1AA		↓	↓	↓	↓	↓	↓	↓	↓	
H2H201AA										
H2H241AA										
H2H281AA										
H2W5L1AA	B									
H2W5L1AC	C									
H2W5L1AD	L									

Comments:

Volume of Alt Standard: NA

Split Ratios: Post I.S. 0.50

Post F.C. NA

Post C.S. ↓

Post R.S. ↓

Blk Matrix: GF Filter W.B. Temp NA

4694

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100051 **Cleanup Std. Spiked By:** _____ **Verified By:** _____ Date: _____

Work Order Number		Cleanup Spike (Book:Page)	Cleanup Spike Volume (uL)	SilicaGel Alumina Col (Initial/Date)	Acid/Base Wash (Initial/Date)	Carbon Column (Initial/Date)	Florisil Column (Initial/Date)	Mercury Cleanup (Initial/Date)	TBA Cleanup (Initial/Date)	Other Cleanup (Initial/Date)	Comments
H2H2A1AA											
H2H2V1AA											
H2H201AA											
H2H241AA											
H2H281AA											
H2W5L1AA	B										
H2W5L1AC	C										
H2W5L1AD	L										

Comments: _____

4695

STL Knoxville

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

QC Batch #: 6100051

Lot Numbers in this Batch:

H6D030241
H6D100000

STL Knoxville
SIM PAH Solution Concentrations

SIM PAH Native Standards	Spike Solution ID: (Book: pg. No.) Concentration
Acenaphthene	3377:07 250 ng/ml
Acenaphthylene	
Anthracene	
Benz (a) anthracene	
Benzo (b) fluoranthene	
Benzo (k) fluoranthene	
Benzo (g,h,i) perylene	
Benzo (a) pyrene	
Benzo (e) pyrene	
Biphenyl	
Chrysene	
Dibenz (a,h) anthracene	
2,6-Dimethylnaphthalene	
Fluoranthene	
Fluorene	
Indeno (1,2,3-cd) pyrene	
1-Methylnaphthalene	
2-Methylnaphthalene	
1-Methylphenanthrene	
Naphthalene	
Perylene	
Phenanthrene	
Pyrene	
2,3,5-Trimethylnaphthalene	
1,4-Dichlorobenzene	

SIM PAH Internal Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_8 Acenaphthylene	3377:05 250 ng/ml
d_{12} Chrysene	
d_{12} Benz (a) anthracene	
d_{12} Benzo (a) pyrene	
d_{12} Benzo (b) fluoranthene	
d_{12} Benzo (k) fluoranthene	
d_{12} Benzo (g,h,i) perylene	
d_{14} Dibenz (a,h) anthracene	
d_{10} Fluoranthene	
d_{12} Indeno (1,2,3-cd) pyrene	
d_{10} 2-Methylnaphthalene	
d_8 Naphthalene	
d_{12} Perylene	
d_{10} Phenanthrene	
d_4 1,4-Dichlorobenzene	
d_{10} 1-Methylnaphthalene	
d_{12} 2,6-Dimethylnaphthalene	

SIM PAH Alternate Standard	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Anthracene	NA 250 ng/ml

SIM PAH Recovery Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Acenaphthene	2904:65 10 ug/ml
d_{12} Benzo (e) pyrene	
d_{10} Pyrene	

SIM PAH Field Surrogate Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Fluorene	NA 5 ug/ml
d_{14} p-Terphenyl	
$^{13}C_6$ Fluorene	

STL Knoxville, LRMS-SIM GC/MS Data Review / Narrative Checklist **LOT/Project #** 160036246 98
Method: PAHs and Selected SVOCs - KNOX-ID-0016, Revision 3 **Page 1 of 2**

QC Batch 61000060

A. Tune / Calibration	N/A	Yes	No	Why is data reportable?	2nd √
1. Were all samples injected within 12 hr of DFTPP?		✓			✓
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results					
1. Were all special project requirements met?		✓			✓
2. Were prep/dilution factors & header information verified?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Sample prep and analyses done within preparation and analytical holding time (HT)? (extracted ≤ 14 days after collection and analyzed ≤ 40 days after extraction) *If no, list samples:*		✓		θ *[ht1] HT expired upon receipt.* θ *[ht2] Client requested analysis after HT expired.** θ *[ht3]* Re-extraction done after HT expired.	✓
5. Are internal standards, alternate standards and sampling surrogates within QC limits? *If no, list samples and reason* Sample: Blank, CC, CCDup, 002, 008, 010, 012, 014 — Reason: Int stds outside limits.		X	✓	θ Internal standards are outside the QC limits. However, the S/N is ≥ 10:1. θ See the discussion of the impact to analytical results in the case narrative.	✓
6. Is the signal/noise ratio for all labeled analytes ≥ 10:1 for quantitation ions?		✓			✓
7. Is the signal/noise ratio for all target analytes ≥ 2.5:1 for the primary and secondary ions?		✓			✓
8. Were all results which did not meet all qualitative criteria qualified with a Q flag?		✓			✓
9. If dilutions were performed, list samples and reasons: Sample: 002 — Reason: E level - naphthalene	✓			θ [dil1] Conc. of (ANALYTE) > calibration range. Results that were above the calibration range on the initial run were reported from the dilution run. θ [dil2] Conc. of several compounds > calibration range. The determination to report the samples without further dilution was made after consultation with the client.* outside of calibration range.* θ If dilutions > 1:10 were needed, then a smaller aliquot of sample was extracted, or analysis using full scan mode under method 8270 was done.	✓

* Such action must be taken in consultation with client.

STL Knoxville, LRMS-SIM GC/MS Data Review / Narrative Checklist LOT/Project # 610006A) 4699

Method: PAHs and Selected SVOCs - KNOX-ID-0016, Revision 3

B. CLIENT SAMPLE AND QC SAMPLE Results	N/A	Yes	No	Why is data reportable?	2nd √
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?		✓			✓
11. Have alternate hits and manual integrations been verified as correct?		✓			✓
12. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓
13. Was a narrative prepared and all deviations noted?		✓			✓
C. Preparation/Matrix QC					
1. LCS done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID:* _____		✓		θ **[lcs1] Insufficient sample for reanalysis.*** θ **[lcs2] LCS %R high and all analyte(s) were <RL in associated samples.** θ **[lcs3] Problem is confined to the LCS/D**	✓
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
3. Method blank surrogate recoveries within QC limits?		✓		θ **[mb1] Internal Standard recoveries OK and there is no analyte >RL in samples associated with blank.***	✓
4. Are all analytes present in the method blank ≤ RL? *If no, list blank ID:* _____		✓		θ **[mb2] Observed in blank. Efforts to correct are underway.** θ **[mb3] No analyte > RL in associated samples.*** θ **[mb4] Sample results > 20x higher than blank.** θ **[mb5] Insufficient sample for reanalysis.***	✓
5. MS/MSD done per batch and are all recoveries and RPDs within laboratory generated QC limits? *If no, list MS/MSD ID:* _____	✓			θ [ms1] LCS acceptable - sample matrix effects. θ [ms2] LCS acceptable. High native analyte concentration relative to spike level. θ [rpd] LCS acceptable. RPD out due to lack of sample homogeneity.	✓
6. Were MS run #'s assigned correctly?	✓				✓
D. Other					
1. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓
2. Are the correct scanned file names listed at the top of the data review checklist?		✓			✓
3. Were the standards scanned properly with runlogs?		✓			✓

Analyst: VMC	**Date:** 4/28/06	**2nd Level Reviewer:**	**Date:** 4/28/06
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

STL Knoxville **Specialty Organics Prep Batch Review/Checklist** **Batch #** 6100060 4700

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

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Does the batch contain no more than 20 field samples? (Excluding MB, LCS, LCSD, MS, & MSD)		✓			✓
2. Were the samples extracted by the proper method?		✓			✓
3. Were the samples extracted within the required holding times?		✓			✓
4. For waters by 1613B, if visible solids were present, were solids determined to be ≤ 1%?	✓				✓
5. Were all project specific requirements met as noted on the Lot Checklists and Sample Worksheets?		✓			✓
6. Were all required QC samples prepared & extracted with the batch at method required frequency?		✓			✓
7. Were MS Run# properly assigned and samples entered on QC tracking Sheet?	✓				✓
8. Were samples requested properly and request form completed, signed, and dated?		✓			✓
9. Were the correct weights and volumes entered in Quantims for all samples?		✓			✓
10. Were the internal standards properly spiked and the spikes verified? Were the spike solution ID and spike volumes entered correctly and verified?		✓			✓
11. Were alternate standards properly spiked and the spikes verified? Were the spike solution ID and spike volumes entered correctly and verified?	✓				✓
12. Were all cleanup steps properly documented by initials and date?	✓				✓
13. Was the final volume checked and verified against the supplemental benchsheet and Quantims?		✓			✓
14. Are the final extracts free of water, precipitates, multiple phases, and color?			✓	NO CLEANUPS	✓
15. Were all appropriate notes and observations recorded on the prep benchsheet and in Quantims?		✓			✓
16. Were all Quantims batch information completed including; • Batch reviewed • Correct volumes entered • Correct completion date entered • Samples released		✓			✓
17. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including; • Prep Benchsheet • Supplemental Benchsheet • Standard concentration forms or copies of logbook pages, for all IS, RS, SS, CS, Native and Alternate standards. • Lot Checklists for all lots in the batch • Sample worksheets for all samples in the batch in proper order as recorded on tracking sheet		✓			✓
18. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓

Analyst: SDD	Date: 4/13/06	2nd Level Reviewer :	Date: AW 4/13/06
Comments:		Comments:	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/13/06
Time: 8:34:53

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
—	—	MS/MSD	—	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct & all match
			—	—	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 013451 Susan D. Oxendine
044305 David R. McNeil

Concentrationist: 013451 Susan D. Oxendine

****
* *
* **QC BATCH: 6100060** *
* *
****

PREP DATE: 4/10/06 16:00
COMP DATE: 4/13/06 10:30

Reviewer/Date: OXENDINS / 4/13/06

PAHs & Selected SVOCs (HRGC/LRMS)
SOXHLET (NOMINAL), Airtrains: XAD/Rinse

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/18/06	4/24/06	H6D030241-002 **H2H2M-1-AA**	D	IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/19/06	4/24/06	H6D030241-005 **H2H2W-1-AA**	D	IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/18/06	4/24/06	H6D030241-008 **H2H21-1-AA**	D	IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/20/06	4/24/06	H6D030241-010 **H2H23-1-AA**	D	IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/20/06	4/24/06	H6D030241-012 **H2H25-1-AA**	D	IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/18/06	4/24/06	H6D030241-014 **H2H27-1-AA**	D	IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/18/06	0/00/00	H6D100000-060 **H2W5Q-1-AA**B		IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/13/06
Time: 8:34:53

QC BATCH: 6100060

PREP DATE: 4/10/06 16:00
COMP DATE: 4/13/06 10:30

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	SOLVENTS EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/18/06	0/00/00	H6D100000-060 **H2W5Q-1-ACC**		IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:07,2.0ML,NATIVE 3377:05,2.0ML,DEUTERATED
COMMENTS:															
4/18/06	0/00/00	H6D100000-060 **H2W5Q-1-ADL**	R	IO	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:07,2.0ML,NATIVE 3377:05,2.0ML,DEUTERATED
COMMENTS:															

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

NUMBER OF WORK ORDERS IN BATCH: 9

4702

STL Knoxville

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

QC Batch No 6100060 Relinquished to GC/MS By: Sr. Oxendine Date: 4/13/06

Received in GC/MS By: Date:

Work Order Number		Column: DB-5 or RTX-5				Column: DB-5 or RTX-5				Column: DB-225 or RTX-225			
		Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code
H2H2M1AA		4/13/06	H2A	DW	OK								
H2H2W1AA					OK								
H2H211AA					OK								
H2H231AA					OK								
H2H251AA					OK								
H2H271AA					OK								
H2W5Q1AA	B				OK								
H2W5Q1AC	C				OK								
H2W5Q1AD	L				OK								

Comments: _____

4703

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100060

Internal Std. Spiked By: SDO **Verified By:** [illegible] **Date:** 4-10-06

Native LCS/D Spiked By: SDO **Verified By:** [illegible] **Date:** 4-10-06

Native MS/D Spiked By: N/A **Verified By:** N/A **Date:** N/A

Work Order Number		Filtered Y/N?	Vol of Sampling Surrogate (uL)	Soxhlet Started (Date/Time)	Soxhlet Finished (Date/Time	Blow Down (Initial/Date)	Recovery Standard (Book:Page)	Recovery Std Vol (uL)	Vol Delivered (uL)	Comments
H2H2M1AA		N	200 uL	4/10/06 16:30	4/11/06 8:30	SDO 4/13/06	2904:65	25 uL	500 uL	
H2H2W1AA		↓	↓	↓	↓	↓	↓	↓	↓	
H2H211AA		↓	↓	↓	↓	↓	↓	↓	↓	
H2H231AA		↓	↓	↓	↓	↓	↓	↓	↓	
H2H251AA		↓	↓	↓	↓	↓	↓	↓	↓	
H2H271AA		↓	↓	↓	↓	↓	↓	↓	↓	
H2W5Q1AA	B	↓	↓	↓	↓	↓	↓	↓	↓	
H2W5Q1AC	C	↓	↓	↓	↓	↓	↓	↓	↓	
H2W5Q1AD	L	↓	↓	↓	↓	↓	↓	↓	↓	

Comments:

Volume of Alt Standard: NA

Split Ratios: Post I.S. 0.50

Post F.C. NA

Post C.S. ↓

Post R.S. ↓

Blk Matrix: XAD W.B. Temp NA

47704

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100060 **Cleanup Std. Spiked By:** _____ **Verified By:** _____ Date: _____

Work Order Number		Cleanup Spike (Book:Page)	Cleanup Spike Volume (uL)	SilicaGel Alumina Col (Initial/Date)	Acid/Base Wash (Initial/Date)	Carbon Column (Initial/Date)	Florisil Column (Initial/Date)	Mercury Cleanup (Initial/Date)	TBA Cleanup (Initial/Date)	Other Cleanup (Initial/Date)	Comments
H2H2M1AA											
H2H2W1AA											
H2H211AA											
H2H231AA											
H2H251AA											
H2H271AA											
H2W5Q1AA	B										
H2W5Q1AC	C										
H2W5Q1AD	L										

Comments: _____

4705

STL Knoxville

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

QC Batch #: 6100060

Lot Numbers in this Batch:

H6D030241
H6D100000

STL Knoxville
SIM PAH Solution Concentrations

SIM PAH Native Standards	Spike Solution ID: (Book: pg. No.) Concentration
Acenaphthene	3377:07 250 ng/ml
Acenaphthylene	
Anthracene	
Benz (a) anthracene	
Benzo (b) fluoranthene	
Benzo (k) fluoranthene	
Benzo (g,h,i) perylene	
Benzo (a) pyrene	
Benzo (e) pyrene	
Biphenyl	
Chrysene	
Dibenz (a,h) anthracene	
2,6-Dimethylnaphthalene	
Fluoranthene	
Fluorene	
Indeno (1,2,3-cd) pyrene	
1-Methylnaphthalene	
2-Methylnaphthalene	
1-Methylphenanthrene	
Naphthalene	
Perylene	
Phenanthrene	
Pyrene	
2,3,5-Trimethylnaphthalene	
1,4-Dichlorobenzene	

SIM PAH Internal Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_8 Acenaphthylene	3377:05 250 ng/ml
d_{12} Chrysene	
d_{12} Benz (a) anthracene	
d_{12} Benzo (a) pyrene	
d_{12} Benzo (b) fluoranthene	
d_{12} Benzo (k) fluoranthene	
d_{12} Benzo (g,h,i) perylene	
d_{14} Dibenz (a,h) anthracene	
d_{10} Fluoranthene	
d_{12} Indeno (1,2,3-cd) pyrene	
d_{10} 2-Methylnaphthalene	
d_8 Naphthalene	
d_{12} Perylene	
d_{10} Phenanthrene	
d_4 1,4-Dichlorobenzene	
d_{10} 1-Methylnaphthalene	
d_{12} 2,6-Dimethylnaphthalene	

SIM PAH Alternate Standard	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Anthracene	NA 250 ng/ml

SIM PAH Recovery Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Acenaphthene	2904:65 10 ug/ml
d_{12} Benzo (e) pyrene	
d_{10} Pyrene	

SIM PAH Field Surrogate Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Fluorene	2904:67 5 ug/ml
d_{14} p-Terphenyl	
$^{13}C_6$ Fluorene	

XAD Source Samplin_ Media Request Form

SEVERN TRENT STL

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

Form Number: 031706-3

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

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

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

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

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

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

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

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

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

Lot Number:
Invoice #:

47708

610063

STL Knoxville, LRMS-SIM GC/MS Data Review / Narrative Checklist LOT/Project # H6D030241
Method: PAHs and Selected SVOCs - KNOX-ID-0016, Revision 2 Page 1 of 2

Instrument:						
Scanned File Names:						

Review Items **A. Tune / Calibration**	N/A	Yes	No	Why is data reportable?	2nd ✔
1. Were all samples injected within 12 hr of DFTPP?		✓			✓
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results					
1. Were all special project requirements met?		✓			✓
2. Were prep/dilution factors & header information verified?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Sample prep and analyses done within preparation and analytical holding time (HT)? (extracted ≤ 14 days after collection and analyzed ≤ 40 days after extraction) *If no, list samples:* _____		✓		☐ *[ht1] HT expired upon receipt.* ☐ *[ht2] Client requested analysis after HT expired.** ☐ *[ht3]* Re-extraction done after HT expired.	✓
5. Are internal standards within QC limits? *If no, list samples and reason* Sample _____ Sample _____		✓		☐ Internal standards are outside the QC limits. However, the S/N is ≥ 10:1. ☐ See the discussion of the impact to analytical results in the case narrative.	✓
6. Is the signal/noise ratio for all labeled analytes ≥ 10:1 for quantitation ions?		✓			✓
7. Is the signal/noise ratio for all target analytes ≥ 2.5:1 for the quantitation ions?		✓			✓
8. Is the confirmation ion present in the target analyte?		✓		☐ Q flags are used for analytes not having confirmation ions.	✓
9. If dilutions were performed, list samples and reasons: Sample Reason Sample Reason		✓		☐ [dil1] Conc. of (ANALYTE) > calibration range. Results that were above the calibration range on the initial run were reported from the dilution run. ☐ [dil2] Conc. of several compounds > calibration range. The determination to report the samples without further dilution was made after consultation with the client.* outside of calibration range.* ☐ If dilutions > 1:10 were needed, then a smaller aliquot of sample was extracted, or analysis using full scan mode under method 8270 was done.	✓

* Such action must be taken in consultation with client.

6100063

STL Knoxville, LRMS-SIM GC/MS Data Review / Narrative Checklist **LOT/Project #** H6D030241
Method: PAHs and Selected SVOCs - KNOX-ID-0016, Revision 2

B. CLIENT SAMPLE AND QC SAMPLE Results	N/A	Yes	No	Why is data reportable?	2nd ✔
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?		✓			✓
11. Have alternate hits and manual integrations been verified as correct?		✓			✓
12. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓
13. Was a narrative prepared and all deviations noted?		✓			✓
C. Preparation/Matrix QC					
1. LCS done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID:* _____		✓		❑ **[lcs1] Insufficient sample for reanalysis.*** ❑ **[lcs2] LCS %R high and all analyte(s) were <RL in associated samples.** ❑ **[lcs3] Problem is confined to the LCS/D**	✓
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
3. Method blank surrogate recoveries within QC limits?		✓		❑ **[mb1] Internal Standard recoveries OK and there is no analyte >RL in samples associated with blank.***	✓
4. Are all analytes present in the method blank ≤ RL? *If no, list blank ID:* _____		✓		❑ **[mb2] Observed in blank. Efforts to correct are underway.** ❑ **[mb3] No analyte > RL in associated samples.*** ❑ **[mb4] Sample results > 20x higher than blank.** ❑ **[mb5] Insufficient sample for reanalysis.***	✓
5. MS/MSD done per batch and are all recoveries and RPDs within laboratory generated QC limits? *If no, list MS/MSD ID:* _____	✓			❑ [ms1] LCS acceptable - sample matrix effects. ❑ [ms2] LCS acceptable. High native analyte concentration relative to spike level. ❑ [rpd] LCS acceptable. RPD out due to lack of sample homogeneity.	✓
6. Were MS run #'s assigned correctly?	✓				✓
D. Other					
1. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓
2. Are the correct scanned file names listed at the top of the data review checklist?		✓			✓
3. Were the standards scanned properly with runlogs?		✓			✓

Analyst: VMK	Date: 4/26/04	2nd Level Reviewer:	Date: 4/27/04
Comments:		**Comments:**	

* Such action must be taken in consultation with client.

STL Knoxville **Specialty Organics Prep Batch Review/Checklist** **Batch #** 6100063 4711

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

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd Level
1. Does the batch contain no more than 20 field samples? (Excluding MB, LCS, LCSD, MS, & MSD)		✓			✓
2. Were the samples extracted by the proper method?		✓			✓
3. Were the samples extracted within the required holding times?		✓			✓
4. For waters by 1613B, if visible solids were present, were solids determined to be ≤ 1%?	✓				✓
5. Were all project specific requirements met as noted on the Lot Checklists and Sample Worksheets?		✓			✓
6. Were all required QC samples prepared & extracted with the batch at method required frequency?		✓			✓
7. Were MS Run# properly assigned and samples entered on QC tracking Sheet?	✓				✓
8. Were samples requested properly and request form completed, signed, and dated?		✓			✓
9. Were the correct weights and volumes entered in Quantims for all samples?		✓			✓
10. Were the internal standards properly spiked and the spikes verified? Were the spike solution ID and spike volumes entered correctly and verified?		✓			✓
11. Were alternate standards properly spiked and the spikes verified? Were the spike solution ID and spike volumes entered correctly and verified?		✓			✓
12. Were all cleanup steps properly documented by initials and date?	✓				✓
13. Was the final volume checked and verified against the supplemental benchsheet and Quantims?		✓			✓
14. Are the final extracts free of water, precipitates, multiple phases, and color?	✓			NO CLEANUPS	✓
15. Were all appropriate notes and observations recorded on the prep benchsheet and in Quantims?		✓			✓
16. Were all Quantims batch information completed including; • Batch reviewed • Correct volumes entered • Correct completion date entered • Samples released		✓			✓
17. Does the prep batch paperwork package contain all required documentation which has been properly and completely filled out, including; • Prep Benchsheet • Supplemental Benchsheet • Standard concentration forms or copies of logbook pages, for all IS, RS, SS, CS, Native and Alternate standards. • Lot Checklists for all lots in the batch • Sample worksheets for all samples in the batch in proper order as recorded on tracking sheet		✓			✓
18. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓

Analyst: SDO	Date: 4/14/06	2nd Level Reviewer :	Date: ALS 4/14/06
Comments:		Comments:	

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/14/06
Time: 11:49:52

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
—	—	MS/MSD	—	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & all match
			—	—	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
Y Package Submitted to AnalyticalGroup
Y Bench Sheet Copied per COC

Extractionist: 015720 Chase Adams
007259 Syed I. Ahmed

Concentrationist: 013451 Susan D. Oxendine

QC BATCH: 6100063

PREP DATE: 4/10/06 18:00
COMP DATE: 4/14/06 14:00

Reviewer/Date: OXENDINS / 4/14/06

PAHs & Selected SVOCs (HRGC/LRMS)
LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
4/18/06	4/24/06	H6D030241-003 **H2H2T-1-AA**	D	09	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS: 2450 ML															
4/19/06	4/24/06	H6D030241-006 **H2H2X-1-AA**	D	09	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS: 2250 ML															
4/18/06	4/24/06	H6D030241-009 **H2H22-1-AA**	D	09	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS: 190 ML															
4/20/06	4/24/06	H6D030241-013 **H2H26-1-AA**	D	09	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS: 2330 ML															
4/18/06	0/00/00	H6D100000-063 **H2W54-1-AAB**		09	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:05,2.0ML,DEUTERATED
COMMENTS: 1500 ML															
4/18/06	0/00/00	H6D100000-063 **H2W54-1-ACC**		09	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:07,2.0ML,NATIVE 3377:05,2.0ML,DEUTERATED
COMMENTS: 1500 ML															
4/18/06	0/00/00	H6D100000-063 **H2W54-1-ADL**	R	09	YA	AIR	1 1.00mL	NA	NA	NA	MECL2	350.0	HEXANE	10.0	3377:07,2.0ML,NATIVE 3377:05,2.0ML,DEUTERATED
COMMENTS: 1500 ML															

SAMPLES WERE DOUBLE SPIKED AND SPLIT 50/50. FINAL VOLUME DELIVERED .50ML

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

NUMBER OF WORK ORDERS IN BATCH: 7

4712

STL Knoxville

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

QC Batch No 6100063 Relinquished to GC/MS By: S. Oxendine Date: 4/14/06

Received in GC/MS By: M S Davidson Date: 4/14/06

Work Order Number		Column: DB-5 or RTX-5				Column: DB-5 or RTX-5				Column: DB-225 or RTX-225			
		Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code	Date	Instrument	Analyst	Code
H2H2T1AA		4/19/06	H2A		OK								
H2H2X1AA					OK								
H2H221AA					OK								
H2H261AA					OK								
H2W541AA	B	4/18/06			OK								
H2W541AC	C				OK								
H2W541AD	L				OK								

Comments: _____

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STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100063

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

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

Native MS/D Spiked By: N/A **Verified By:** N/A **Date:** N/A

Work Order Number		Filtered Y/N?	Vol of Sampling Surrogate (uL)	Soxhlet Started (Date/Time)	Soxhlet Finished (Date/Time	Blow Down (Initial/Date)	Recovery Standard (Book:Page)	Recovery Std Vol (uL)	Vol Delivered (uL)	Comments
H2H2T1AA		N	NA			SD 4/14/06	2904:65	25 ml	500 ul	
H2H2X1AA		↓	↓			↓	↓	↓	↓	
H2H221AA										
H2H261AA										
H2W541AA	B									
H2W541AC	C									
H2W541AD	L									

Comments:

Volume of Alt Standard: 3377:06, 2.0 ml

Split Ratios: Post I.S. 0.50

Post F.C. NA

Post C.S. ↓

Post R.S. ↓

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

STL Knoxville

Specialty Organics Group - Sample Tracking Sheet - Organic Preparation Group

QC Batch No: 6100063 **Cleanup Std. Spiked By:** _____ **Verified By:** _____ Date: _____

Work Order Number		Cleanup Spike (Book:Page)	Cleanup Spike Volume (uL)	SilicaGel Alumina Col (Initial/Date)	Acid/Base Wash (Initial/Date)	Carbon Column (Initial/Date)	Florisil Column (Initial/Date)	Mercury Cleanup (Initial/Date)	TBA Cleanup (Initial/Date)	Other Cleanup (Initial/Date)	Comments
H2H2T1AA											
H2H2X1AA											
H2H221AA											
H2H261AA											
H2W541AA	B										
H2W541AC	C										
H2W541AD	L										

Comments: _____

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STL Knoxville

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

QC Batch #: 6100063

Lot Numbers in this Batch:

H6D030241
H6D100000

STL Knoxville
SIM PAH Solution Concentrations

SIM PAH Native Standards	Spike Solution ID: (Book: pg. No.) Concentration
Acenaphthene	3377:07 250 ng/ml
Acenaphthylene	
Anthracene	
Benz (a) anthracene	
Benzo (b) fluoranthene	
Benzo (k) fluoranthene	
Benzo (g,h,i) perylene	
Benzo (a) pyrene	
Benzo (e) pyrene	
Biphenyl	
Chrysene	
Dibenz (a,h) anthracene	
2,6-Dimethylnaphthalene	
Fluoranthene	
Fluorene	
Indeno (1,2,3-cd) pyrene	
1-Methylnaphthalene	
2-Methylnaphthalene	
1-Methylphenanthrene	
Naphthalene	
Perylene	
Phenanthrene	
Pyrene	
2,3,5-Trimethylnaphthalene	
1,4-Dichlorobenzene	

SIM PAH Internal Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_8 Acenaphthylene	3377:05 250 ng/ml
d_{12} Chrysene	
d_{12} Benz (a) anthracene	
d_{12} Benzo (a) pyrene	
d_{12} Benzo (b) fluoranthene	
d_{12} Benzo (k) fluoranthene	
d_{12} Benzo (g,h,i) perylene	
d_{14} Dibenz (a,h) anthracene	
d_{10} Fluoranthene	
d_{12} Indeno (1,2,3-cd) pyrene	
d_{10} 2-Methylnaphthalene	
d_8 Naphthalene	
d_{12} Perylene	
d_{10} Phenanthrene	
d_4 1,4-Dichlorobenzene	
d_{10} 1-Methylnaphthalene	
d_{12} 2,6-Dimethylnaphthalene	

SIM PAH Alternate Standard	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Anthracene	3377:06 250 ng/ml

SIM PAH Recovery Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Acenaphthene	2904:65 10 ug/ml
d_{12} Benzo (e) pyrene	
d_{10} Pyrene	

SIM PAH Field Surrogate Standards	Spike Solution ID: (Book: pg. No.) Concentration
d_{10} Fluorene	NA 5 ug/ml
d_{14} p-Terphenyl	
$^{13}C_6$ Fluorene	

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #016 [MM-5 Train B]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: H6D030241
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:

Polychlorinated Biphenyls (PCBs), & Polynuclear Aromatic Hydrocarbons (PAHs)	14 Days from Sample Collection to Extraction. 40 Days from Extraction to Analysis.

Field Sample No./ Sample Coding ID	**Sample Collection Date**	**Project QC Requirements**	**Sample Bottle/ Container**	**Sample Type/Analysis**	**Analytical Specifications**
G-2925-R1-MM5 Front Half Composite Train B *Combine with Sample No. G-2926*	3-28-06		Petri Dish	**Particulate Filter Run #1** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-2926 *Combine with Sample No.: G-2925*	3-28-06		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #1** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-2927-R1-MM5 Back Half Composite Train B *Combine with Sample No.: G-2928*	3-28-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #1** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.

Request for Analysis/Chain-of-Custody – RFA/COC #016 [MM-5 Train B]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2928 *Combine with Sample No.: G-2927*	3-25-06		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #1** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-2929-R1-MM5 Impinger Composite Train B *Combine with Sample No.: G-2930*	3-28-06		3 X 1 Liter Amber Boston Round 3-30-06	**Condensate and Impinger Contents, Run #1** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-2930 *Combine with Sample No.: G-2929*	3-28-06		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #1** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.
G-3030-R2-MM5 Front Half Composite Train B *Combine with Sample No. G-3031*	3-29-06		Petri Dish	**Particulate Filter Run #2** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3031 *Combine with Sample No.: G-3030*	3-29-06		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #2** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.

Request for Analysis/Chain-of-Custody – RFA/COC #016 [MM-5 Train B]
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Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3032-R2-MM5 Back Half Composite Train B *Combine with Sample No.: G-3033*	3-29-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #2** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3033 *Combine with Sample No.: G-3032*	3-29-06		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #2** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-3034-R2-MM5 Impinger Composite Train B *Combine with Sample No.: G-3035*	3-29-06		3~~2~~ X 1 Liter Amber Boston Round 3 3-30-06	**Condensate and Impinger Contents, Run #2** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3035 *Combine with Sample No.: G-3034*	3-29-06		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #2** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.
G-3036-R2-MM5 Front Half Composite BT B *Combine with Sample No. G-3037*	3-28-06	**Blank Train**	Petri Dish	**Particulate Filter Run #2** Method 0010 Blank Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.

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Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3037 *Combine with Sample No.: G-3036*	3-28-06	**Blank Train**	250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #2** Method 0010 Blank Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-3038-R2-MM5 Back Half Composite BT B *Combine with Sample No.: G-3039*	3-28-06	**Blank Train**	XAD-2 Resin Tube	**XAD-2 Resin Tube Run #2** Method 0010 Blank Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3039 *Combine with Sample No.: G-3038*	3-28-06	**Blank Train**	250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #2** Method 0010 Blank Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.
G-3040-R2-MM5 Impinger Composite BT B *Combine with Sample No.: G-3041*	3-28-06	**Blank Train**	500 mL Amber Boston Round	**Condensate and Impinger Contents, Run #2** Method 0010 Blank Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3041 *Combine with Sample No.: G-3040*	3-28-06	**Blank Train**	250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #2** Method 0010 Blank Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.

Request for Analysis/Chain-of-Custody – RFA/COC #016 [MM-5 Train B]
Focus/US Filter Westates Carbon
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Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3042-R2-MM-5 Train B XAD-2 Trip/RB	3-30-06	**Trip/ Reagent Blank**	XAD-2 Resin Tube	**XAD-2 Resin Tube Trip/Reagent Blank Run #2** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Soxhlet extract this sample using Methylene Chloride. Reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3109-R3-MM5 Front Half Composite Train B *Combine with Sample No. G-3110*	3-30-06		Petri Dish	**Particulate Filter Run #3** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Front Half of the Filter Holder and Solvent Probe Rinses sample. Soxhlet extract the Front Half Composite and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3110 *Combine with Sample No.: G-3109*	3-30-06		250 mL Amber Boston Round	**Front Half of the Filter Holder and Probe Solvent Rinses, Run #3** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Particulate Filter. Follow the sample preparation instructions for the Front Half fractions.
G-3111-R3-MM5 Back Half Composite Train B *Combine with Sample No.: G-3112*	3-30-06		XAD-2 Resin Tube	**XAD-2 Resin Tube Run #3** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine the XAD-2 Resin Tube with the companion Back Half of the Filter Holder and Coil Condenser Solvent Rinses sample. Extract the Back Half Composite and concentrate to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3112 *Combine with Sample No.: G-3111*	3-30-06		250 mL Amber Boston Round	**Back Half of the Filter Holder and Coil Condenser Solvent Rinses, Run #3** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion XAD-2 Resin Tube and follow the instructions for the Back Half fractions.

Request for Analysis/Chain-of-Custody – RFA/COC #016 [MM-5 Train B]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-3113-R3-MM5 Impinger Composite Train B *Combine with Sample No.: G-3114*	3-30-06		3-2X 1 Liter Amber Boston Round TW 3-30-06	**Condensate and Impinger Contents, Run #3** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Glassware Solvent Rinses of the Impinger Contents and Condensate sample. Extract the composited samples and reduce the volume of the extract to 10 mL followed by a 50:50 split of the concentrate. One of the fractions is to be used for the analysis of PAHs, and the other fraction will be used to analyze for PCB analysis.
G-3114 *Combine with Sample No.: G-3113*	3-30-06		250 mL Amber Boston Round	**Glassware Solvent Rinses of the Impinger Contents and Condensate, Run #3** Method 0010 Train B Polynuclear Aromatic Hydrocarbon (PAH) and Polychlorinated Biphenyl (PCB) Analyses	Combine this sample with the companion Condensate and Impinger Contents. Follow the instructions for the Condensate samples.

Request for Analysis/Chain-of-Custody – RFA/COC #016 [MM-5 Train B]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

HWD030241

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	NA
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	5.0°C
(3) Record any apparent sample loss/breakage.	N/A
(4) Record any unidentified samples transported with this shipment of samples:	N/A
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	N/A

Custody Transfer:

Hand delivered

	Name	Company	Date/Time
Relinquished By:			
Accepted By:	[signature]	STL Knoxville	4/2/06 1625
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: Focus **Project:** Westates Carbon **Lot Number:** HWS03041

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	14a COC not relinquished (signed, dated or time.
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other: Hand Delivered	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?			✓		

Quote #: 64357 PM Instructions: _____

Sample Receiving Associate: _____ Date: 4/3/06

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