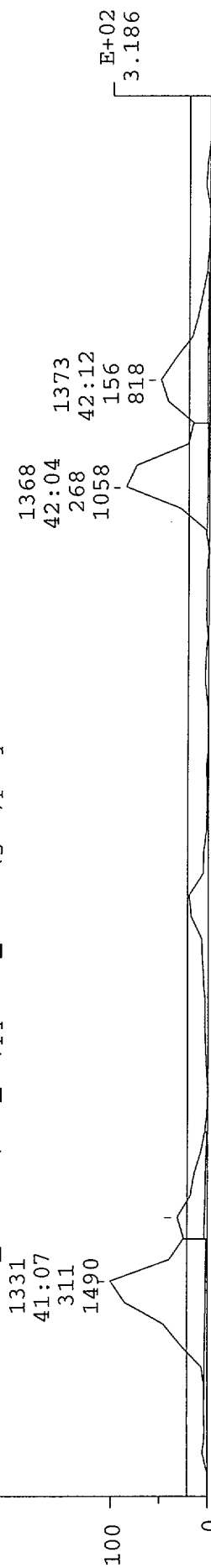


CHRO: Yh2h24
 Samp: WO=h2h241aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-011
 Peak: 100.00 ppm Label wmdw: 1321 > 1387
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

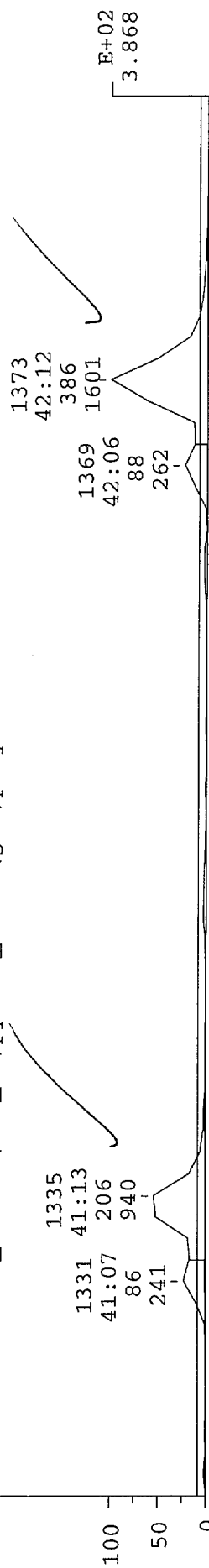
18-APR-06 Elapse: 40:59
 Start : 24:17:00

Study : 6100051
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

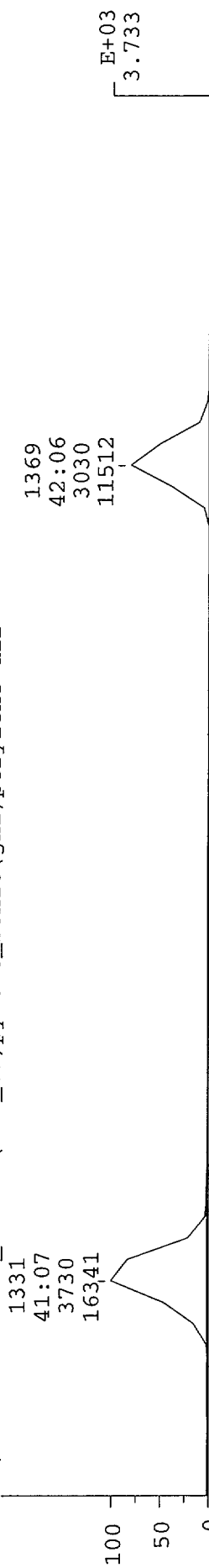
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



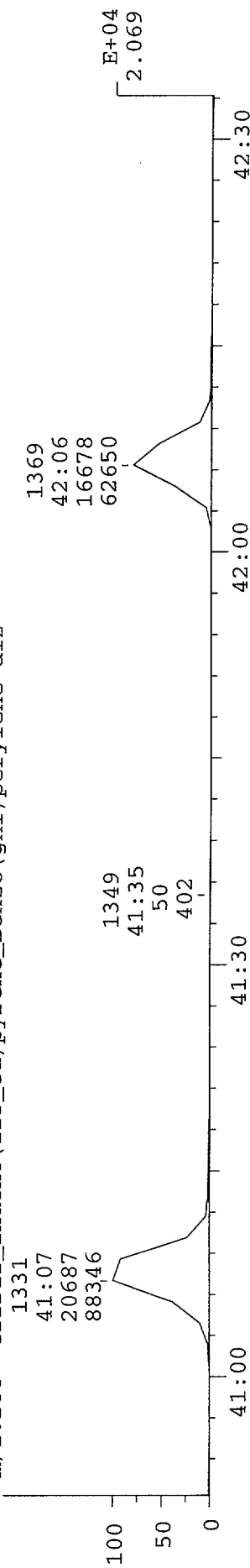
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



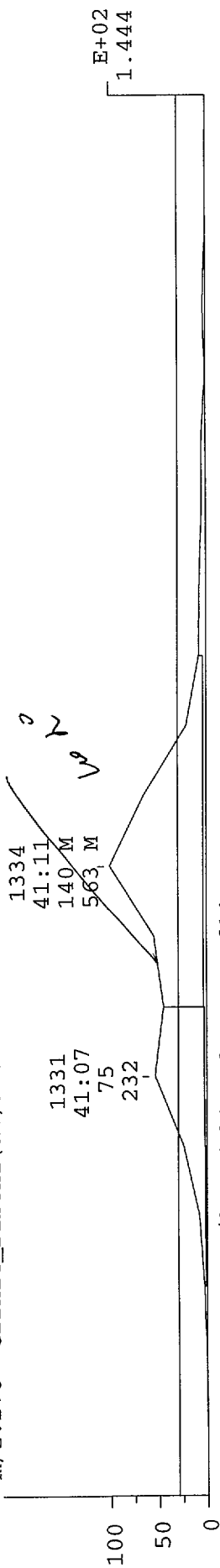
CHRO: yh2h24
Samp: WO=h2h241aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-011
Peak: 100.00 ppm Label wdw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

18-APR-06 Elapse: 40:59 1326
Start : 24:17:00 1384
Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



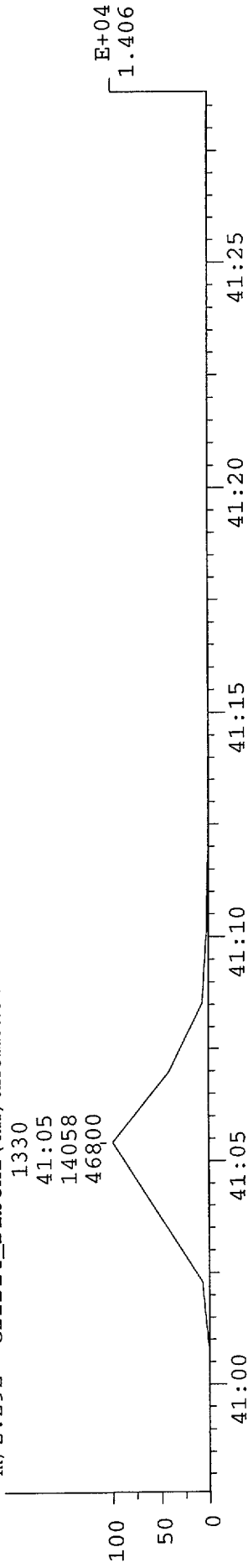
m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: YH2H24.D
 Date Acquired: 19 Apr 2006 12:17 am
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: H2H241AA
 Misc Info: Mth=DFTTP 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 Wed Apr 19 14:08:55 2006
 d:\cdf\files\YH2H24.CDF Translated at Wed Apr 19 14:08:55 2006 Elapsed: 0 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 19 08:35:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h24.dat
 NetCDF File (input): /usr/users/hp/data/yh2h24.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!

ICIS cdf2dat - Finished Conversion: Wed Apr 19 08:35:02 EDT 2006

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

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H251AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

PARAMETER	RESULT		MINIMUM LEVEL	ESTIMATED DETECTION LIMIT	UNITS
Acenaphthene	6.5	B J	20	2.0	ng/sampl
Acenaphthylene	5.9	J	20	0.71	ng/sampl
Anthracene	11	J	20	1.0	ng/sampl
Benzo(a)anthracene	6.1	J	20	0.33	ng/sampl
Benzo(b)fluoranthene	40	B	20	0.69	ng/sampl
Benzo(k)fluoranthene	3.9	J	20	0.88	ng/sampl
Benzo(ghi)perylene	3.7	J	20	1.1	ng/sampl
Benzo(a)pyrene	ND		20	1.1	ng/sampl
Benzo(e)pyrene	2.5	B J	20	0.97	ng/sampl
Chrysene	5.7	J	20	0.37	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.72	ng/sampl
Fluoranthene	25	B	20	0.49	ng/sampl
Fluorene	11	B J	20	1.2	ng/sampl
Indeno(1,2,3-cd)pyrene	3.1	J	20	1.2	ng/sampl
2-Methylnaphthalene	67	B J	20	0.55	ng/sampl
Perylene	66	B	20	14	ng/sampl
Phenanthrene	65	B	20	0.89	ng/sampl
Pyrene	28	B J	20	0.48	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY		RECOVERY LIMITS
2-Methylnaphthalene-d10	100		20 - 120
Acenaphthylene-d8	70		20 - 120
Phenanthrene-d10	106		30 - 120
Fluoranthene-d10	105		30 - 120
Benzo(a)anthracene-d12	111		30 - 120
Chrysene-d12	104		30 - 120
Benzo(b)fluoranthene-d12	107		30 - 120
Benzo(k)fluoranthene-d12	110		30 - 120
Benzo(a)pyrene-d12	96		30 - 120
Perylene-d12	7.4	*	30 - 120
Indeno(1,2,3-cd)pyrene-d12	126	*	30 - 120
Dibenz(ah)anthracene-d14	129	*	30 - 120
Benzo(ghi)perylene-d12	120		30 - 120

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H251AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/27/06		
Prep Batch #:	6100060				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Fluorene d-10	104	30 - 140
Terphenyl-d14	96	30 - 140
13C6-Fluorene	106	30 - 140

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



IsoCalc

Workorder H2H251AA
Data File /20060427s1/yh2h2522.d
Analysis ID 90370
Analysis Date 4/27/2006
Analysis Time 23:08
Anal Exp Date 05/20/06
Instrument H2A
Analyst JMN

Prep Batch 6100060
Prep Date 04/10/06
Prep Exp Date 04/20/06
Matrix AIR
Initial Wt/Vol 1
Extract Vol 1
Dil Factor 1.0

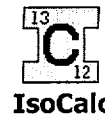
Lot No H6D030241-012
SDG No
Date Received 04/02/06
Date Sampled 03/30/06
Lims Test Code XXSIOYA01
Method DXLPAH
Code YAL

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample)	DL (ng/samp)
Naphthalene-d8	16:08	167927	58127	1.623	500.0	460.410994	92.08	460.410994	0.889
Naphthalene	16:11	5629747	1819196	1.233		13599.1022		13599.1022 BE	1.26
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene								ND	0.000000
2-Methylnaphthalene	18:05	20865	8591	1.270		66.921844		66.921844 B J	0.554
2-Methylnaphthalene-d10	18:01	122780	51544	1.093	500.0	500.015985	100.00	500.015985	0.751
1-Methylnaphthalene	18:25	13337	5759	1.358		46.143993		46.143993 B	0.594
1-Methylnaphthalene-d10	18:19	106431	44930	0.958	500.0	494.644120	98.93	494.644120	0.857
1-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:27	7927	3853	1.552		20.798185		20.798185 B	0.891
2,6-Dimethylnaphthalene	19:56	5331	2113	1.240		18.404880		18.404880 J B	1.20
2,6-Dimethylnaphthalene-d1	19:47	116760	55536	1.009	500.0	514.945117	102.99	514.945117	1.13
C2 Alkyl naphthalenes				1.240		18.404880		18.404880 J	1.14
Acenaphthylene	20:48	1859	760	1.221		5.914278		5.914278 J	0.707
Acenaphthylene-d8	20:46	128690	47783	1.646	500.0	347.922872	69.58	347.922872	0.710
Acenaphthene-d10	21:16	112330	50251	1.000	500.0	500.000000	100.00	500.000000	1.32
Acenaphthene	21:21	1241	453	0.740		6.519877		6.519877 BJ	2.02
2,3,5-Trimethylnaphthalene				1.140				ND	0.869
C3 Alkyl naphthalenes				1.140				ND	0.830
Fluorene d-10	22:46	296666	138131	0.805	1000	1041.61243	104.16	1041.61243	0.866
Fluorene-C13	22:52	282467	113141	0.752	1000	1060.71974	106.07	1060.71974	0.838
Fluorene	22:50	3500	1023	0.892		11.085113		11.085113 BJ	1.19
Phenanthrene-d10	25:42	176996	75312	0.793	500.0	527.865465	105.57	527.865465	0.559
Phenanthrene	25:46	27910	12556	1.210		65.151972		65.151972 B	0.891
Anthracene-d10								ND	0.000000
Anthracene	25:54	4277	1966	1.065		11.348659		11.348659 J	1.01
1-Methylphenanthrene	27:39	1637	545	0.871		5.310950		5.310950 J	0.877
Fluoranthene-d10	29:20	168699	77410	0.761	500.0	523.817285	104.76	523.817285	0.507
Fluoranthene	29:23	11127	5240	1.298		25.405228		25.405228 B	0.485
Pyrene-d10	30:01	211471	87411	1.000	500.0	500.000000	100.00	500.000000	0.386
Pyrene	30:04	12437	5090	1.319		27.948690		27.948690 B J	0.477
Terphenyl-d14	30:30	246538	117925	0.762	1000	959.453120	95.95	959.453120	0.276
Benzo(a) Anthracene-d12	33:36	120974	57048	0.514	500.0	556.377588	111.28	556.377588	0.779
Benzo(a) anthracene	33:42	2046	709	1.385		6.106777		6.106777 BJ	0.332
Chrysene-d12	33:43	113261	53291	0.516	500.0	518.953184	103.79	518.953184	0.776
Chrysene	33:47	1710	653	1.333		5.661474		5.661474 BJ	0.369
Benzo(b) Fluoranthene-d12	36:34	105036	42603	0.895	500.0	532.782445	106.56	532.782445	0.625
Benzo(k) Fluoranthene-d12	36:39	125334	44061	1.030	500.0	552.055389	110.41	552.055389	0.542
Benzo(b) fluoranthene	36:37	12041	5030	1.446		39.652434		39.652434 B	0.690
Benzo(k) fluoranthene	36:41	1067	332	1.093		3.892791		3.892791 J	0.882
Benzo(e) pyrene-d12	37:22	110187	42499	1.000	500.0	500.000000	100.00	500.000000	0.559
Benzo(e) pyrene	37:26	615	246	1.495		2.512790		2.512790 BJ	0.971
Benzo(a) Pyrene-d12	37:31	81842	29266	0.776	500.0	478.558791	95.71	478.558791	0.720
Benzo(a) pyrene				1.286				ND	1.13
Perylene-d12	37:45	7617	2619	0.936	500.0	36.918087	7.38	36.918087	0.597
Perylene	37:50	1142	252	1.140		65.761257		65.761257 B	14.2
3-Methylcholanthrene								ND	0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder H2H251AA	Prep Batch 6100060	Lot No H6D030241-012
Data File /20060427s1/yh2h2522.d	Prep Date 04/10/06	SDG No
Analysis ID 90370	Prep Exp Date 04/20/06	Date Received 04/02/06
Analysis Date 4/27/2006	Matrix AIR	Date Sampled 03/30/06
Analysis Time 23:08	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	56927	16913	0.402	500.0	643.077894	128.62	643.077894	1.03
Indeno(1,2,3-cd)pyrene-d12	41:05	107044	25388	0.772	500.0	629.112093	125.82	629.112093	0.419
Indeno(1,2,3-cd)pyrene	41:10	828	214	1.259		3.071515		3.071515 J	1.17
Dibenz (a,h) anthracene				1.961				ND	0.716
Benzo(ghi) Perylene-d12	42:04	74193	20522	0.561	500.0	600.231667	120.05	600.231667	0.577
Benzo(ghi) perylene	42:11	897	195	1.639		3.687855		3.687855 J	1.11
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene								ND	0.000000

PAH's by LRMS Extended List

Workorder H2H251AA
 Data File /20060427s1/yh2h2522.d
 Analysis ID 90370
 Analysis Date 04/27/06 23:08
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100060
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 1.00

Lot No H6D030241-012
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXSIOYA01
 Method DXLPAH
 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	180		72				
	Naphthalene	16:11	16:04	7	5629747 ✓		1819196			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	145		58				
	Naphthalene-d8	16:08	16:01	7	167927 ✓		58127			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	73		29				
	2-Methylnaphthalene	18:05	18:07	-2	20865 ✓		8591			ABB	M
	1-Methylnaphthalene	18:25	18:26	-1	13337 ✓		5759			MBB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	83		33				
	2-Methylnaphthalene-d10	18:01	18:02	-1	122780 ✓		51544			ABB	
	1-Methylnaphthalene-d10	18:19	18:21	-2	106431 ✓		44930			ABV	
	Acenaphthylene	20:48	20:51	-3	1859 ✓		760			MBB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	143		57				
	Biphenyl	19:27	19:30	-3	7927 ✓		3853			MVV	M
	Acenaphthene	21:21	21:24	-3	1241 ✓		453			ABB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	165		66				
	2,6-Dimethylnaphthalene	19:56	19:58	-2	5331 ✓		2113			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	118		47				
	Acenaphthylene-d8	20:46	20:49	-3	128690 ✓		47783			ABB	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	133		53				
164					164.0000		164.0000				
	Noise	00:00	00:00	0	133		53				
	Acenaphthene-d10	21:16	21:19	-3	112330 ✓		50251			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	160		64				
	Fluorene	22:50	22:55	-5	3500 ✓		1023			MVV	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	115		46				
	2,6-Dimethylnaphthalene	19:47	19:51	-4	116760 ✓		55536			ABB	M
169					169.0000		169.0000				
	Noise	00:00	00:00	0	98		39				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	110		44				
172					172.0000		172.0000				
	Noise	00:00	00:00	0	95		38				
	Fluorene-Cl3	22:52	22:55	-3	282467 ✓		113141			AVB	M

Notes:

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

PAH's by LRMS Extended List

Workorder H2H251AA
 Data File /20060427s1/yh2h2522.d
 Analysis ID 90370
 Analysis Date 04/27/06 23:08
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100060
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 1.00

Lot No H6D030241-012
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXSIOYA01
 Method DXLPAH
 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	105		42				
	Fluorene d-10	22:46	22:50	-4	296666		138131			ABB	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	163		65				
	Phenanthrene	25:46	25:49	-3	27910		12556			ABB	M
	Anthracene	25:54	25:56	-2	4277		1966			ABB	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	78		31				
	Phenanthrene-d10	25:42	25:45	-3	176996		75312			ABV	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	115		46				
	1-Methylphenanthrene	27:39	27:42	-3	1637		545			AVB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	98		39				
	Fluoranthene	29:23	29:24	-1	11127		5240			MBB	M
	Pyrene	30:04	30:06	-2	12437		5090			ABB	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	68		27				
	Fluoranthene-d10	29:20	29:21	-1	168699		77410			ABV	
	Pyrene-d10	30:01	30:02	-1	211471		87411			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	53		21				
	Benzo(a)anthracene	33:42	33:39	3	2046		709			MVV	M
	Chrysene	33:47	33:47	0	1710		653			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	70		28				
	Benzo(a)Anthracene-d12	33:36	33:36	0	120974		57048			ABV	
	Chrysene-d12	33:43	33:43	0	113261		53291			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	33		13				
	Terphenyl-d14	30:30	30:31	-1	246538		117925			ABV	
252					252.0000		252.0000				
	Noise	00:00	00:00	0	85		34				
	Benzo(b)fluoranthene	36:37	36:38	-1	12041		5030			ABV	M
	Benzo(k)fluoranthene	36:41	36:41	0	1067		332			AVB	
	Benzo(e)pyrene	37:26	37:25	1	615		246			MVB	M
	Perylene	37:50	37:48	2	1142		252			MBB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	48		19				
	Benzo(b)Fluoranthene-d1	36:34	36:34	0	105036		42603			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:38	1	125334		44061			AVB	
	Benzo(e)pyrene-d12	37:22	37:21	1	110187		42499			ABV	
	Benzo(a)Pyrene-d12	37:31	37:30	1	81842		29266			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

PAH's by LRMS Extended List

Workorder H2H251AA
 Data File /20060427s1/yh2h2522.d
 Analysis ID 90370
 Analysis Date 04/27/06 23:08
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100060
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 1.00

Lot No H6D030241-012
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXSIOYA01
 Method DXLPAH
 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	37:45	37:44	1	7617 ✓		2619				AVV
268					268.0000		268.0000				
	Noise	00:00	00:00	0	60		24				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	75		30				
	Indeno(1,2,3-cd)pyrene	41:10	41:09	1	828 ✓		214				MVB
	Benzo(ghi)perylene	42:11	42:09	2	897 ✓		195				AVB
278					278.0000		278.0000				
	Noise	00:00	00:00	0	48		19				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	28		11				
	Indeno(1,2,3-cd)pyrene-	41:05	41:04	1	107044 ✓		25388				ABV
	Benzo(ghi)Perylene-d12	42:04	42:02	2	74193 ✓		20522				AVB
292					292.0000		292.0000				
	Noise	00:00	00:00	0	35		14				
	Dibenz(ah)Anthracene-d1	41:03	41:02	1	56927 ✓		16913				ABB
302					302.0000		302.0000				
	Noise	00:00	00:00	0	13		5				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	18		7				

Notes:

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

Int/Calc: 4/28/06
 AC 4/28/06

24
 1384

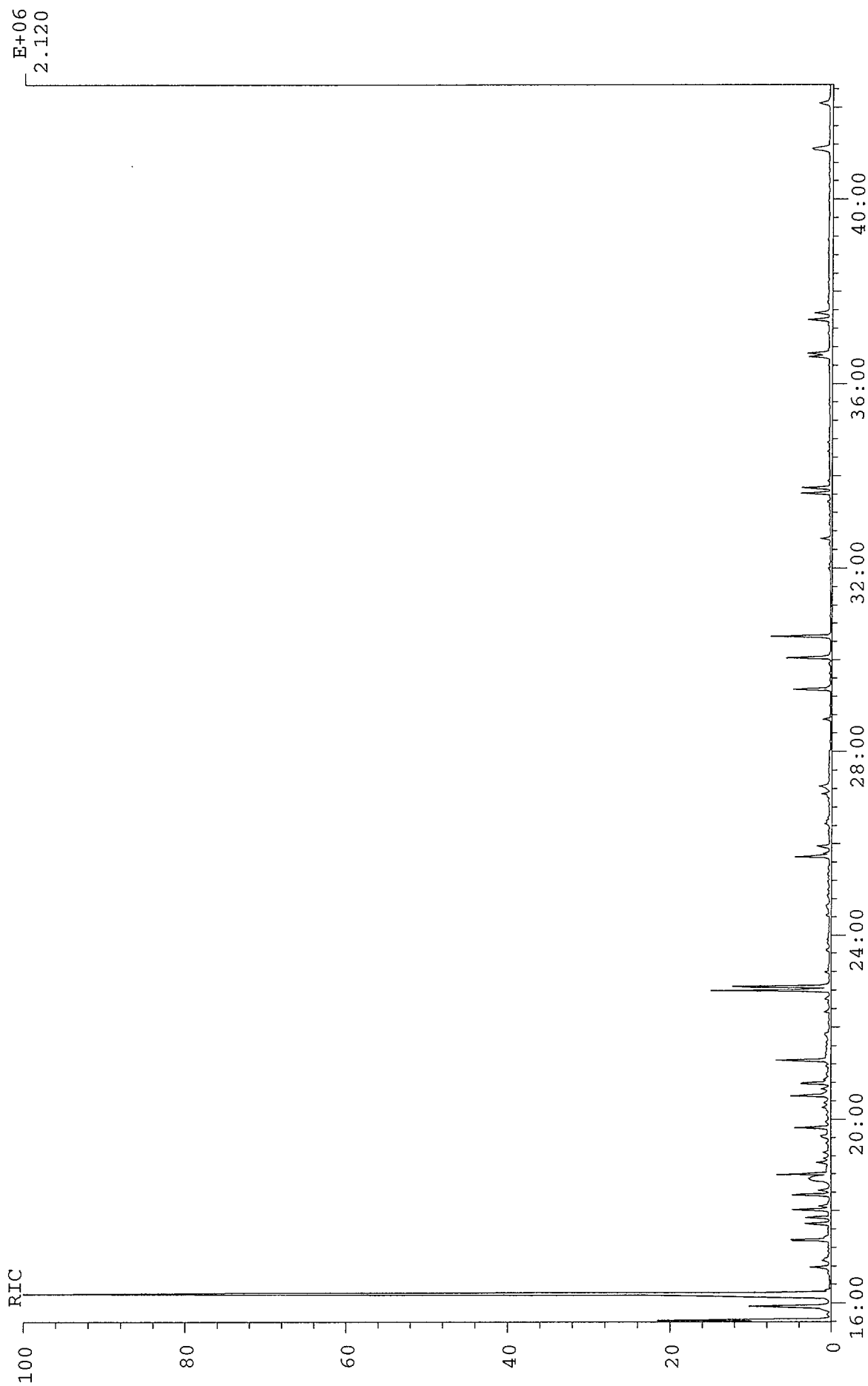
16:00.8
 23:08:00

Elapse:
 Start :
 Study :
 Inlet :
 Masses:
 Label :

27-APR-06
 Ccal=200604261
 6100060
 0 > 308
 0, 3.0

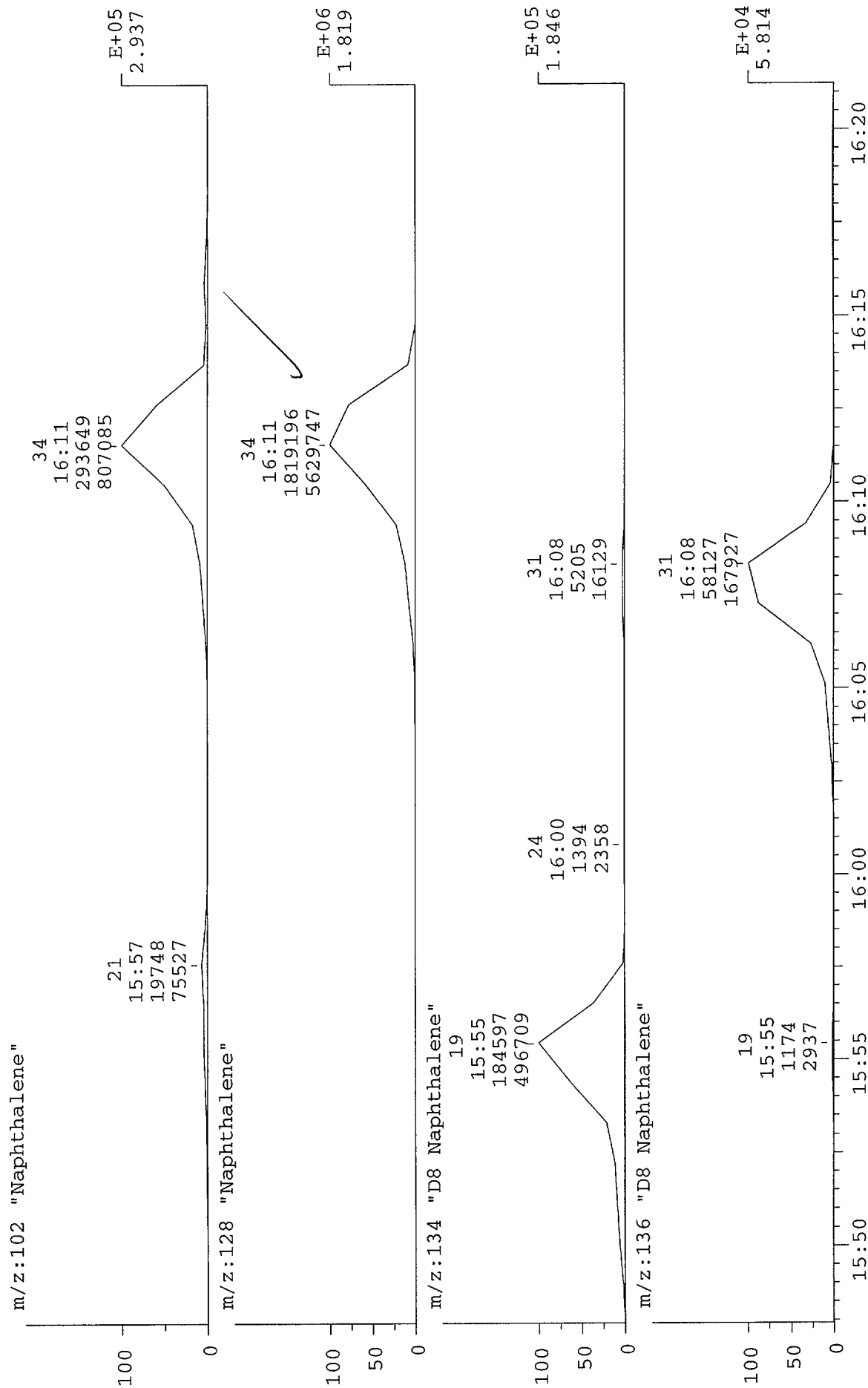
WO=h2h251aa Meth=YA1 Dil=1
 Inst=h2a/695821 Batch=20060427s1
 (LIN) UP LR NETCDF
 Client: H6D030241-012
 Label wndw: 20 > 28
 Baseline : 100, 3

CHRO: yh2h2522
 Samp: WO=h2h251aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN
 Peak: 100.00 ppm
 Area: 5, 0.50, 15
 Disp: Height Area



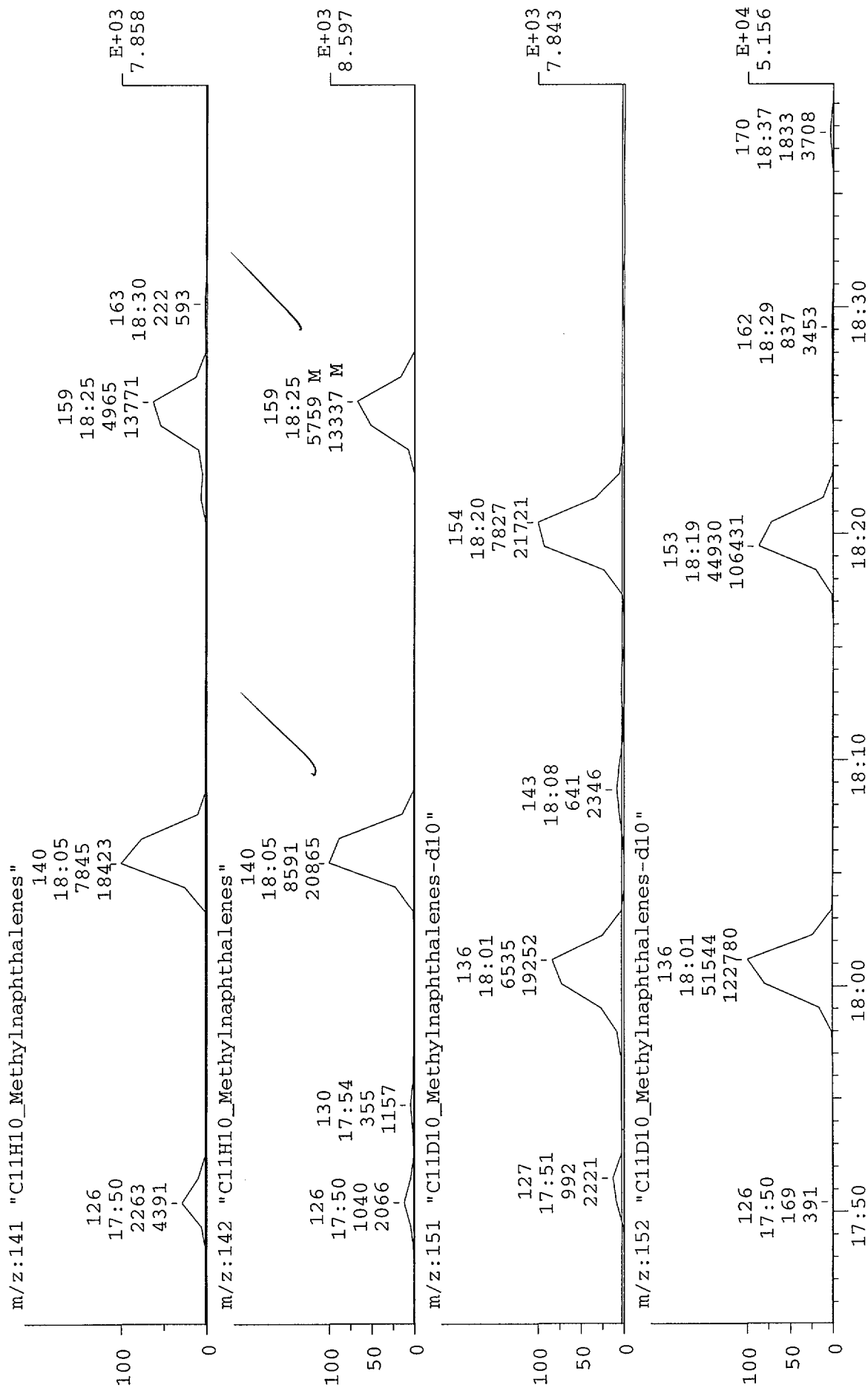
CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wdw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0



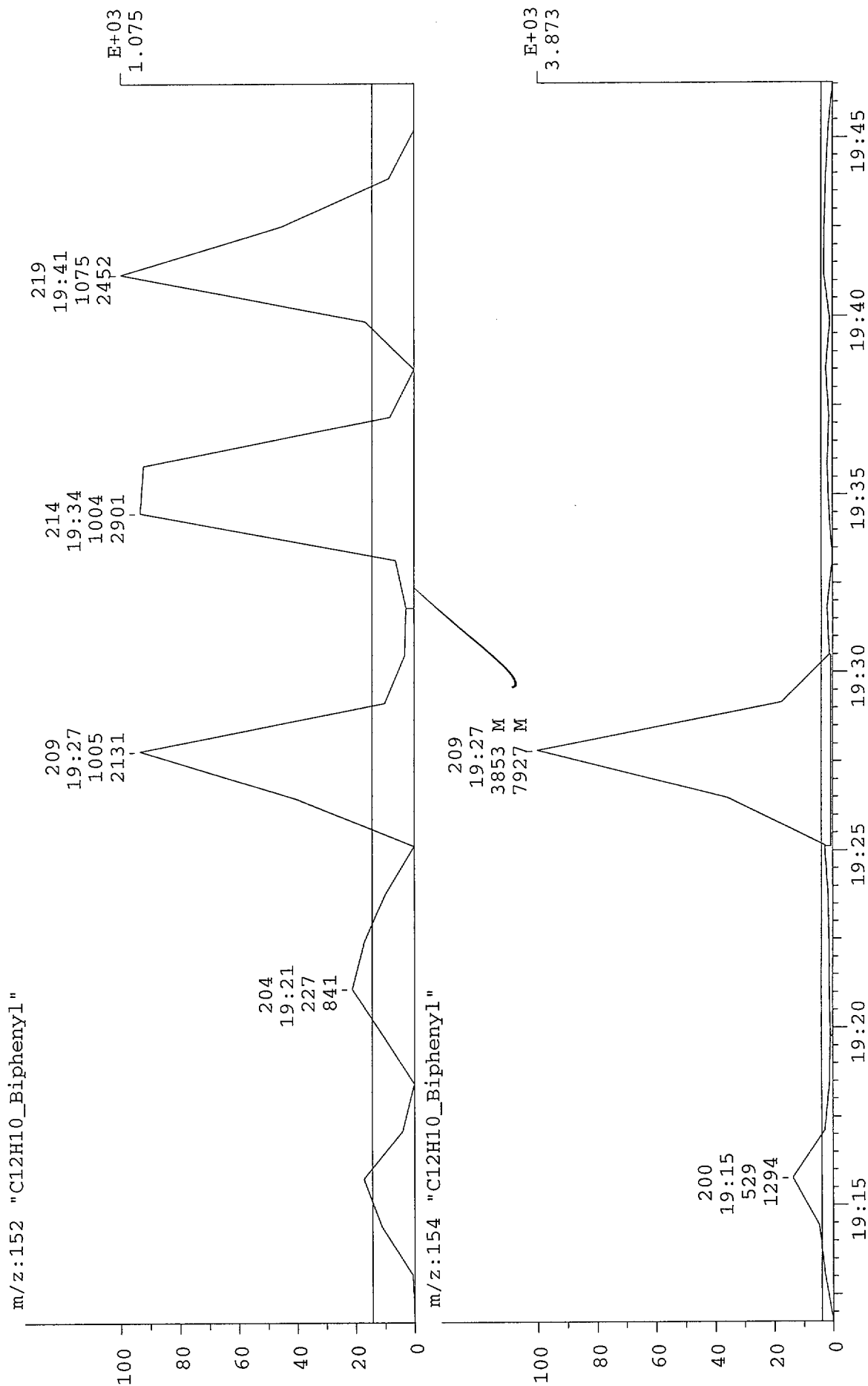
CHRO: yh2h2522
 Samp: WO=h2h251aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=200604261
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-012
 Peak: 100.00 ppm Label wdw: 121 > 172
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

27-APR-06 Elapse: 41:00 1327
 Start : 23:08:00 1384
 Study : 6100060
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wdw: 197 > 223
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

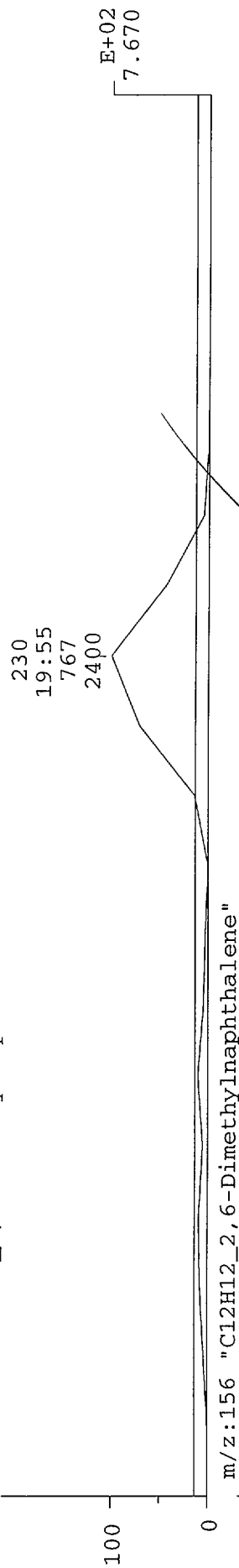
27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0



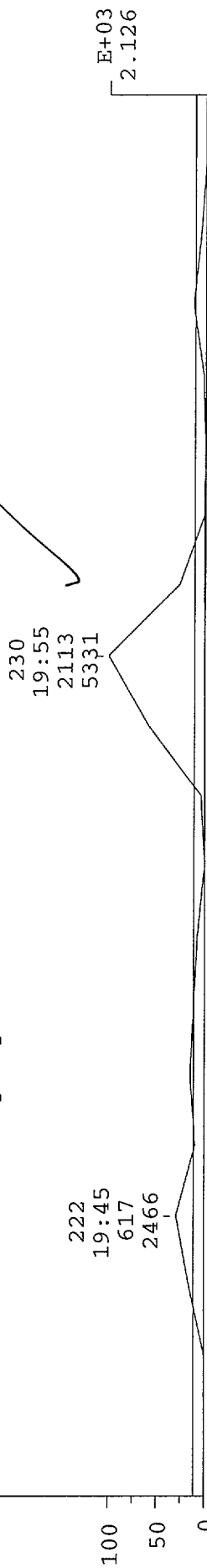
CHRO: Yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wmdw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0

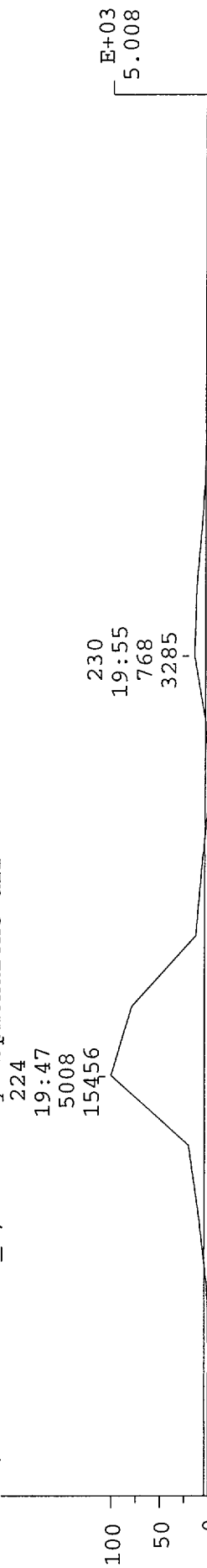
m/z:155 "C12H12_2,6-Dimethylnaphthalene"



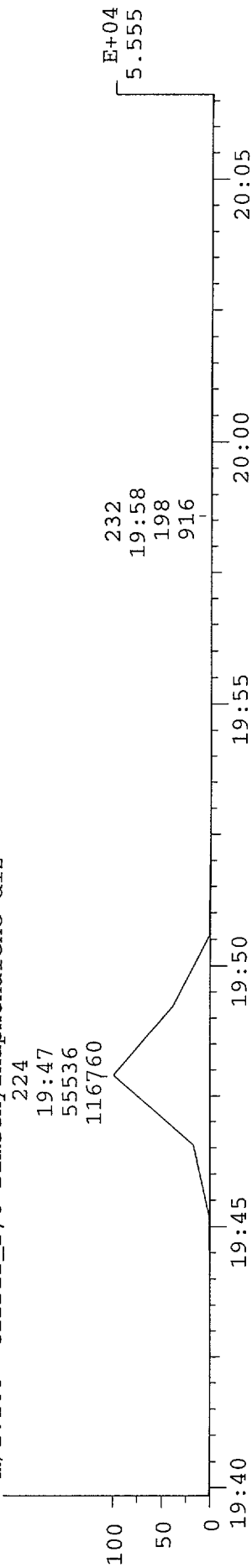
m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"

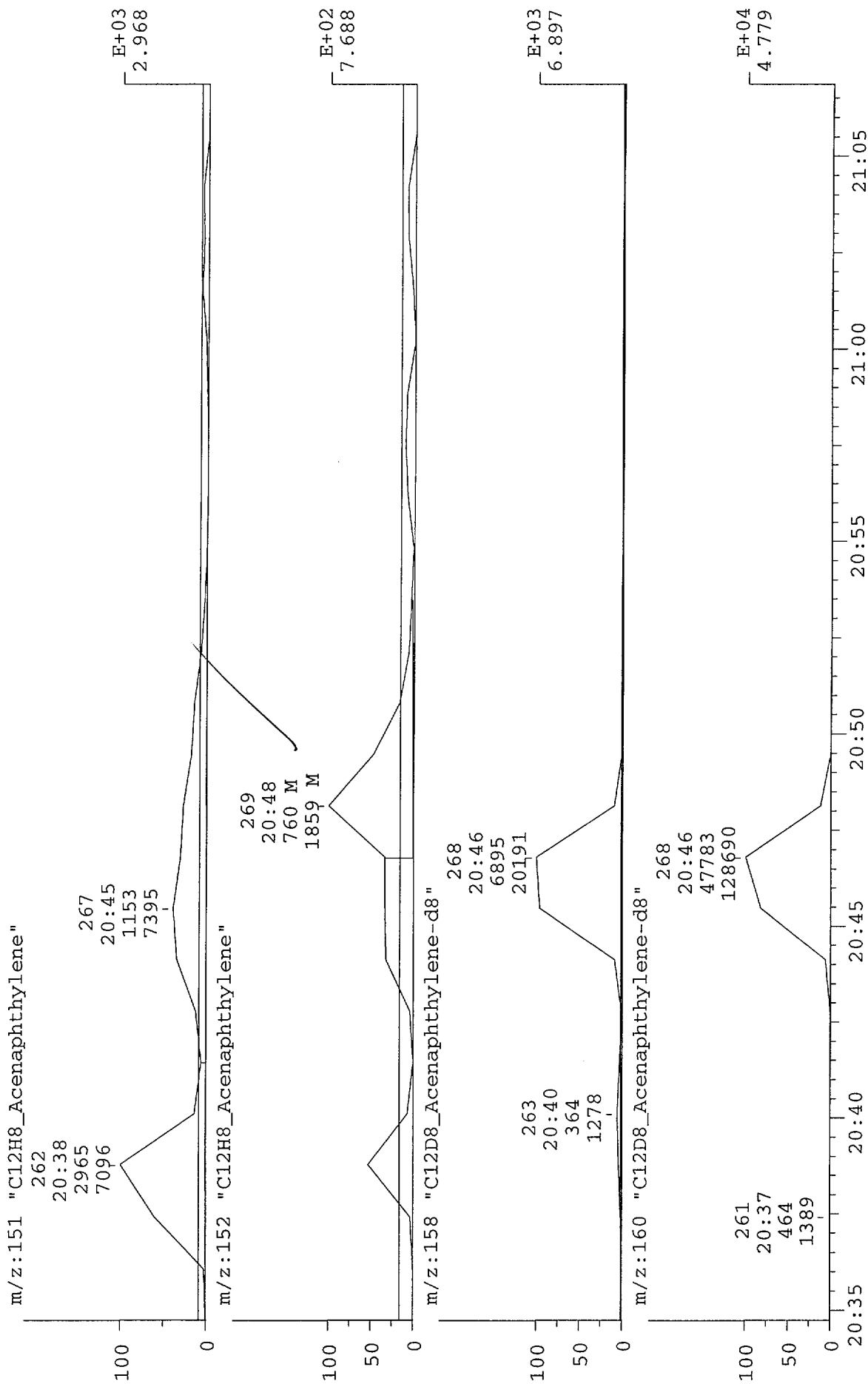


m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



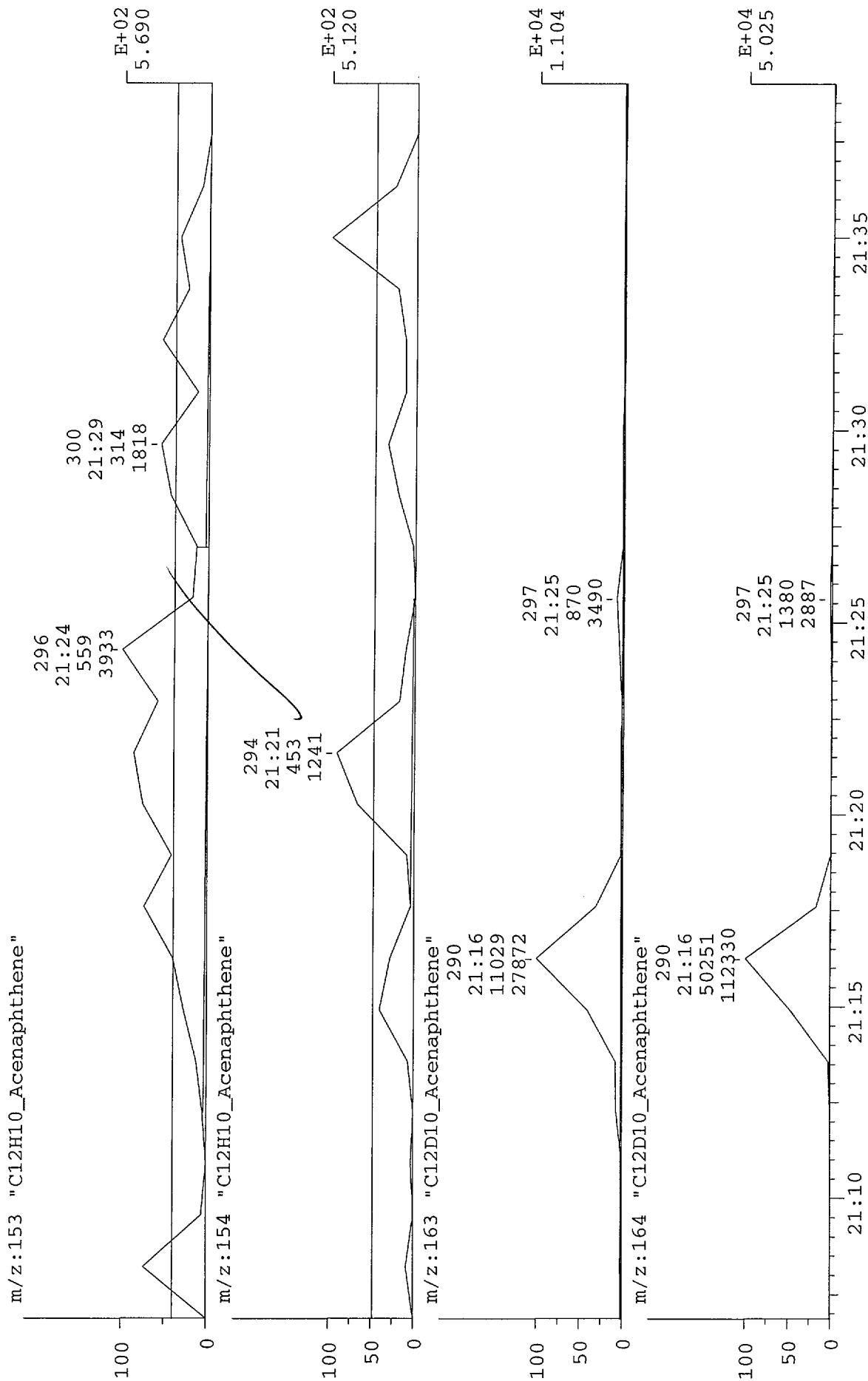
CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wmdw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0



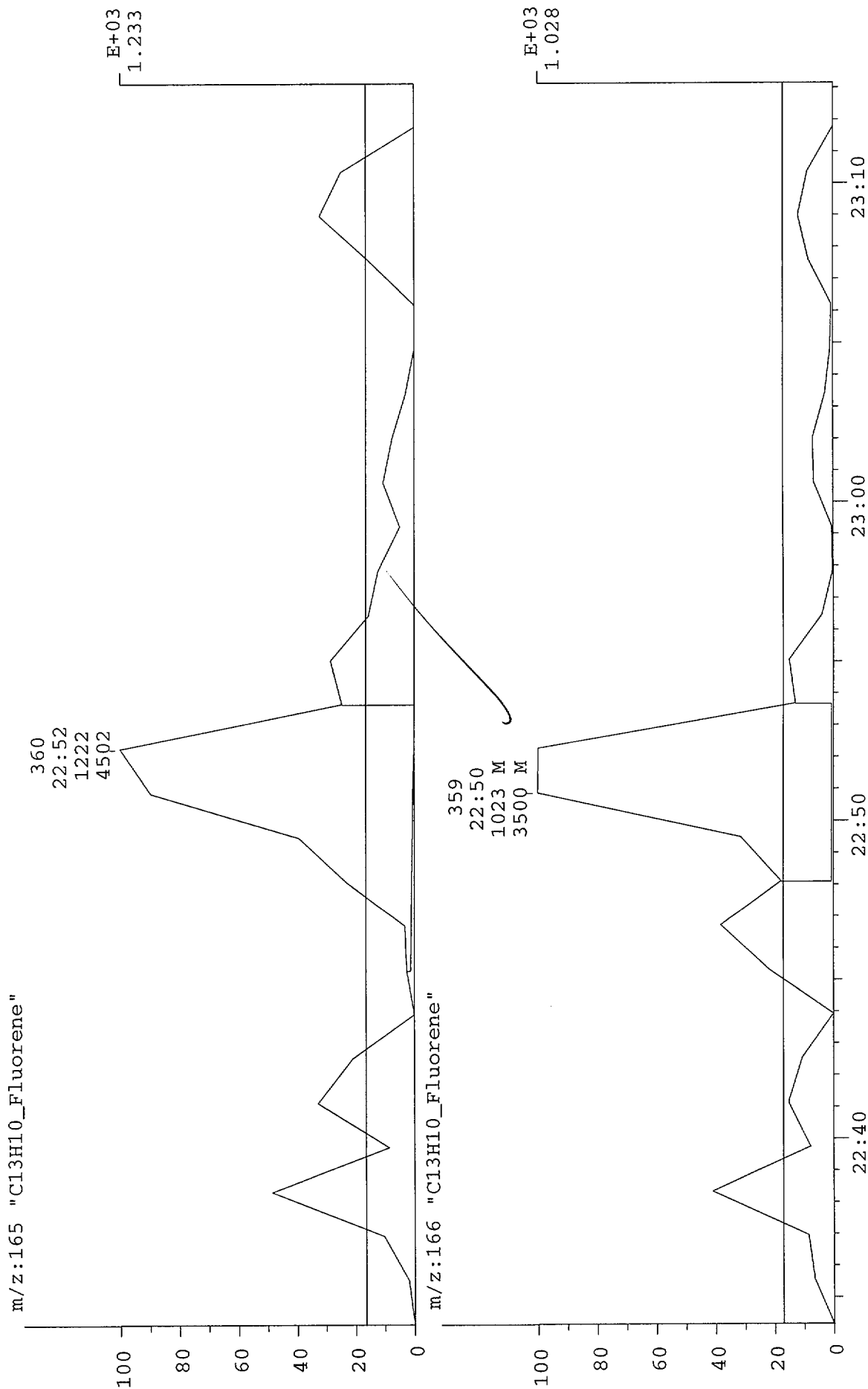
CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wdw: 283 > 307
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wdw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

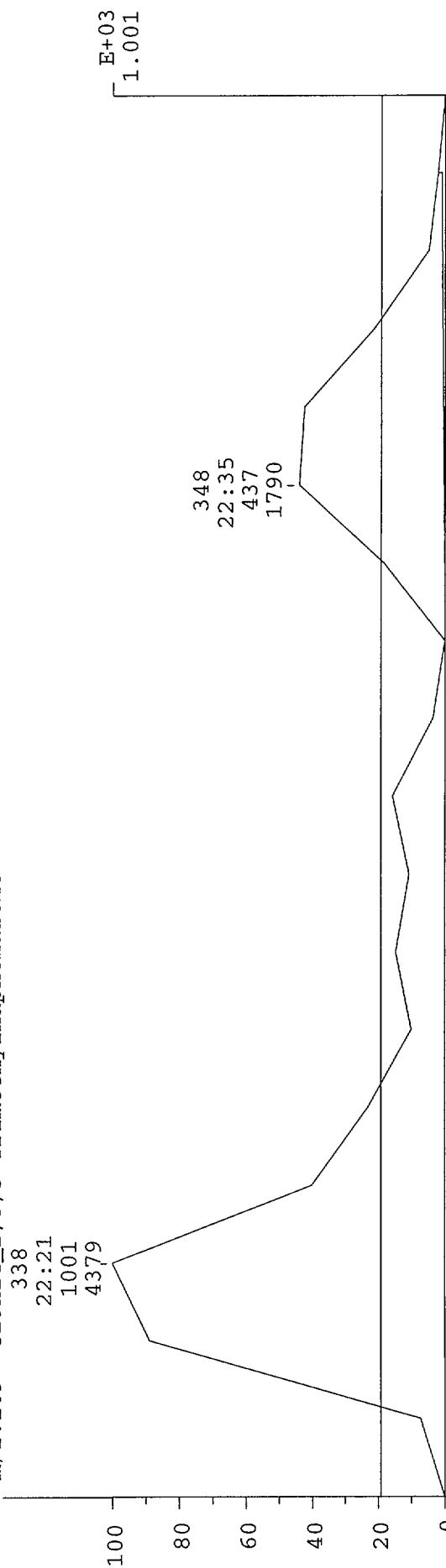
27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0



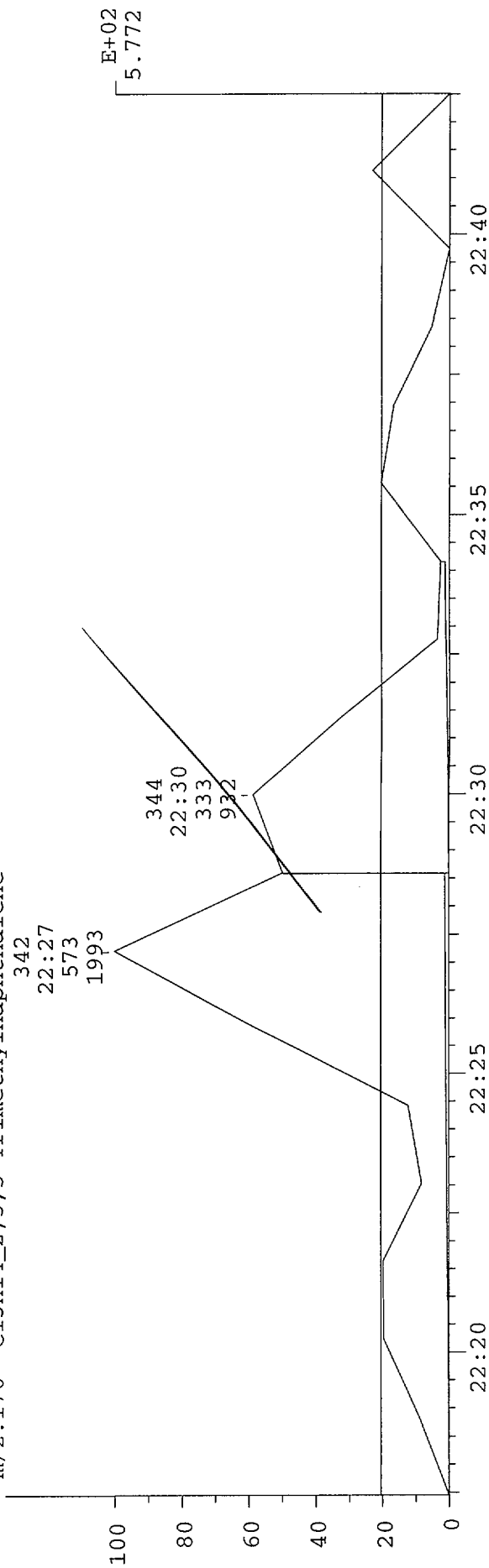
CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wdw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0

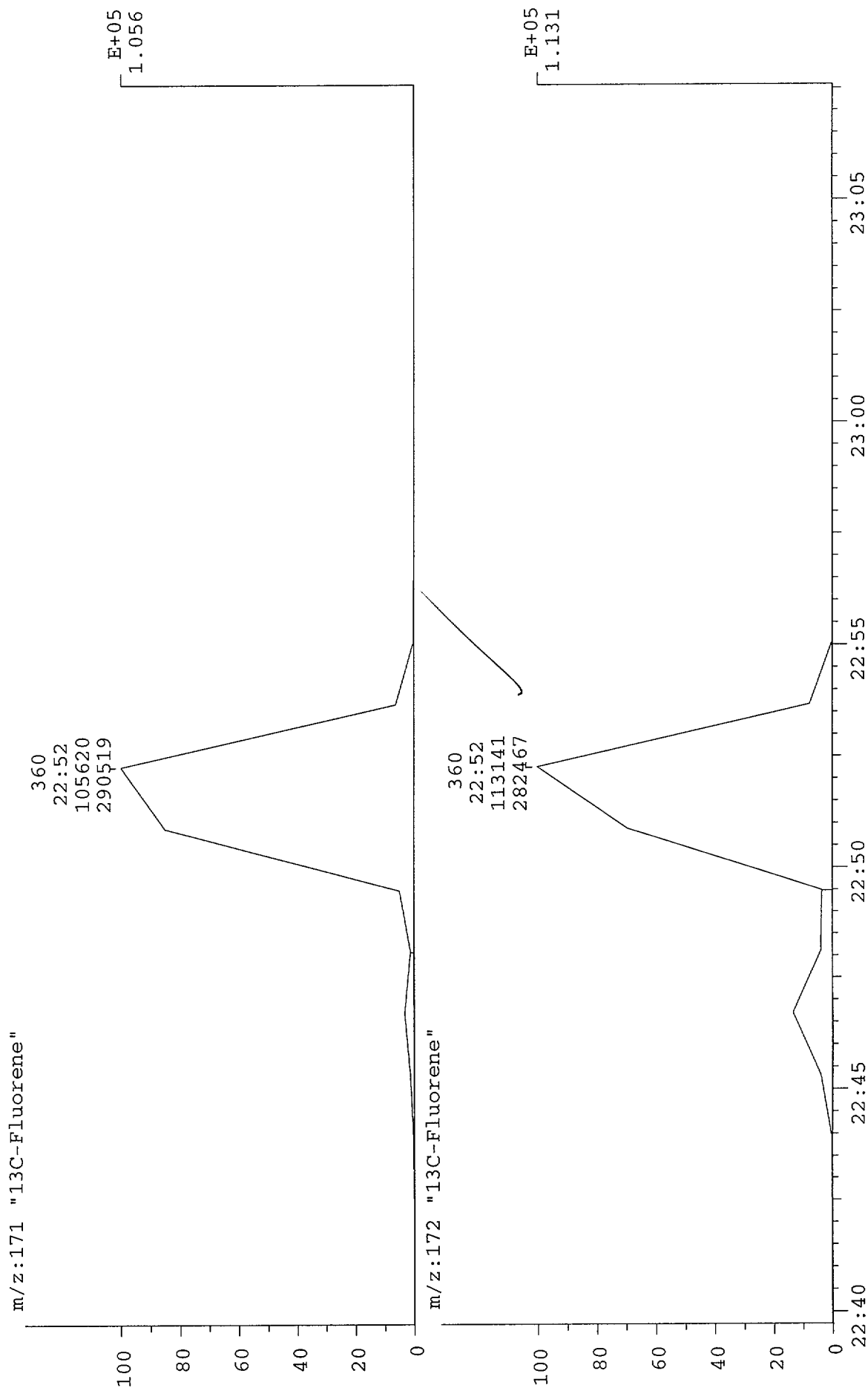
m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"



m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"

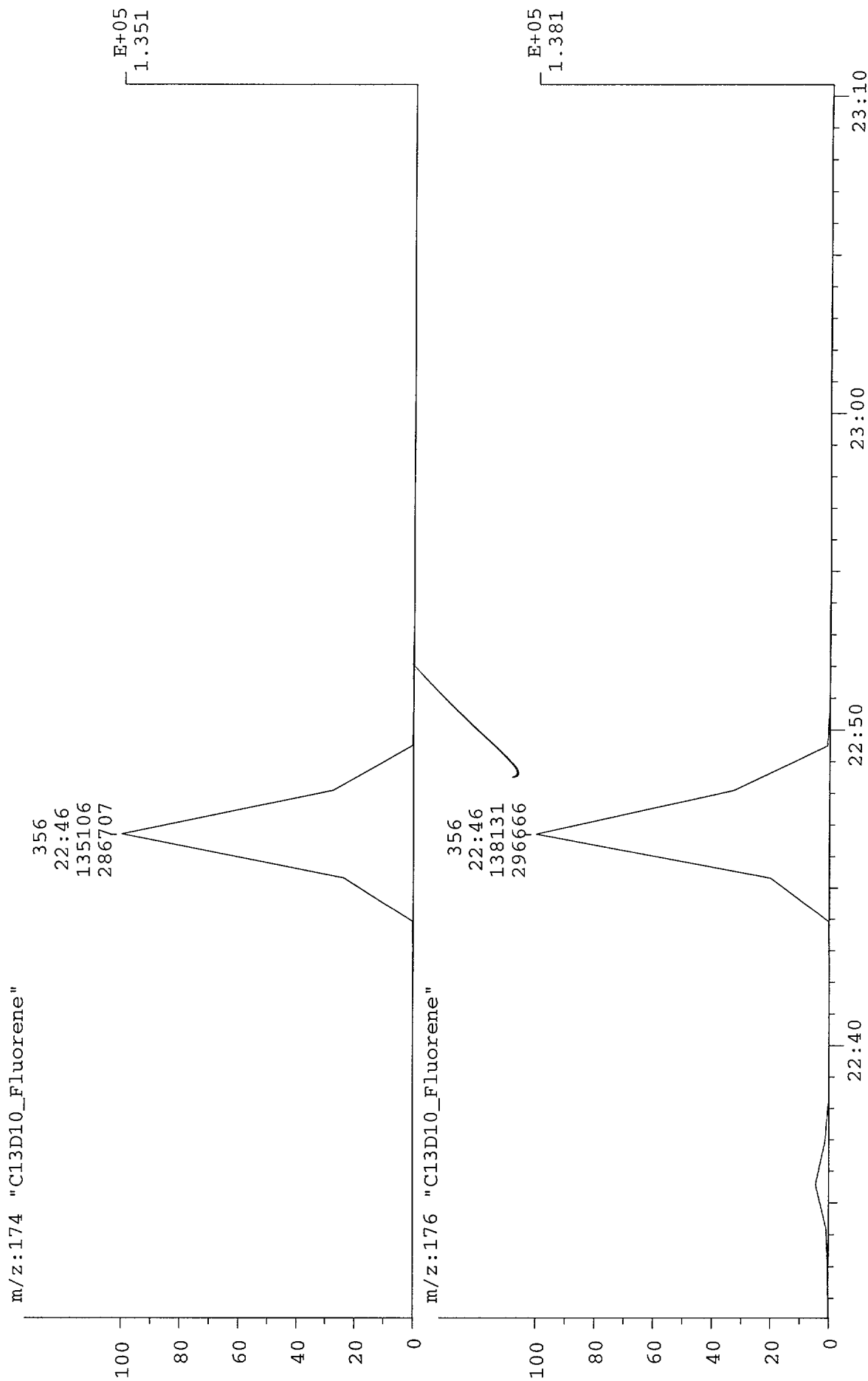


CHRO: yh2h2522 27-APR-06 Elapse: 41:00 1327
Samp: WO=h2h251aa Meth=YA1 Dil=1 Start : 23:08:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012 Study : 6100060
Peak: 100.00 ppm Label wndw: 351 > 371 Inlet :
Area: 5, 0.50, 15 Baseline : 100, 1 Masses: 0 > 308
Disp: Height Area Label : -2, 3.0



CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wdw: 345 > 373
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wdw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

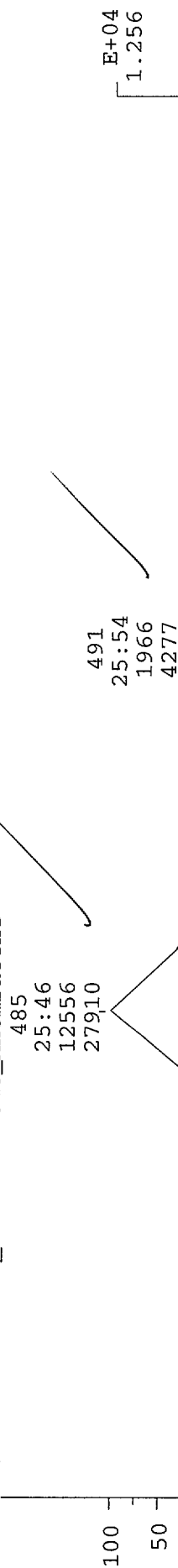
27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384

Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0

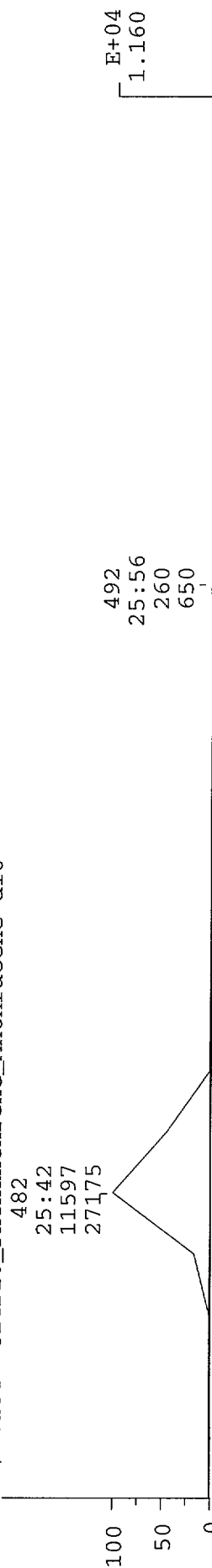
m/z:176 "C14H10_Phenanthrene_Anthracene"



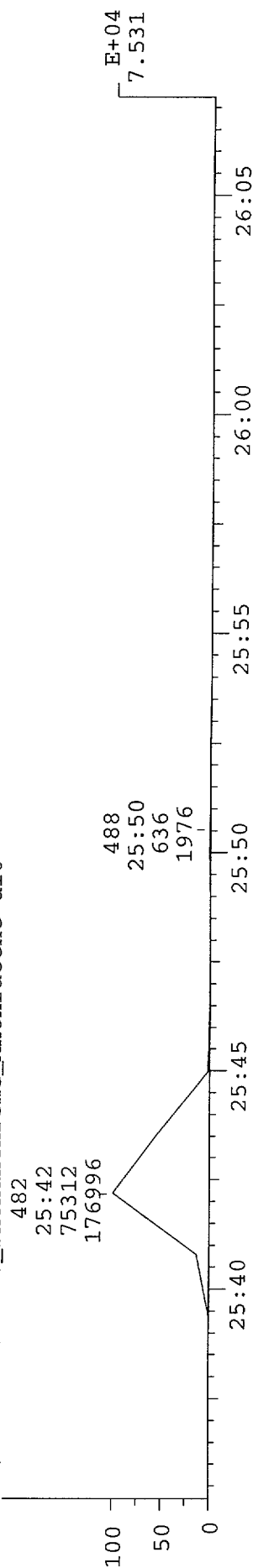
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"

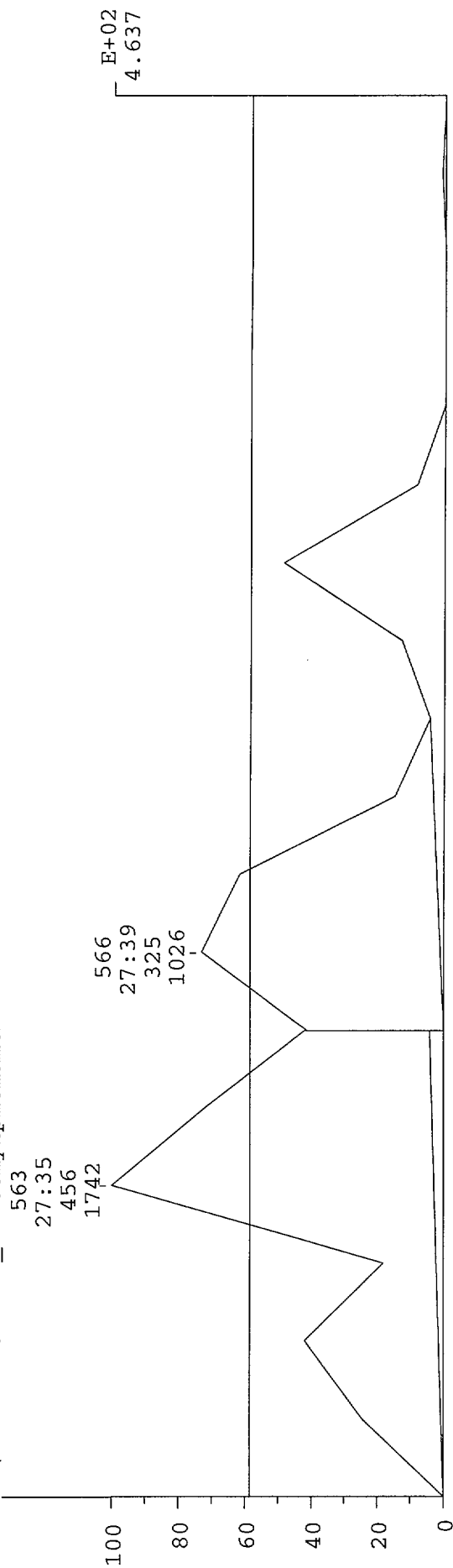


m/z:188 "C14D10_Phenanthrene_Anthracene-d10"

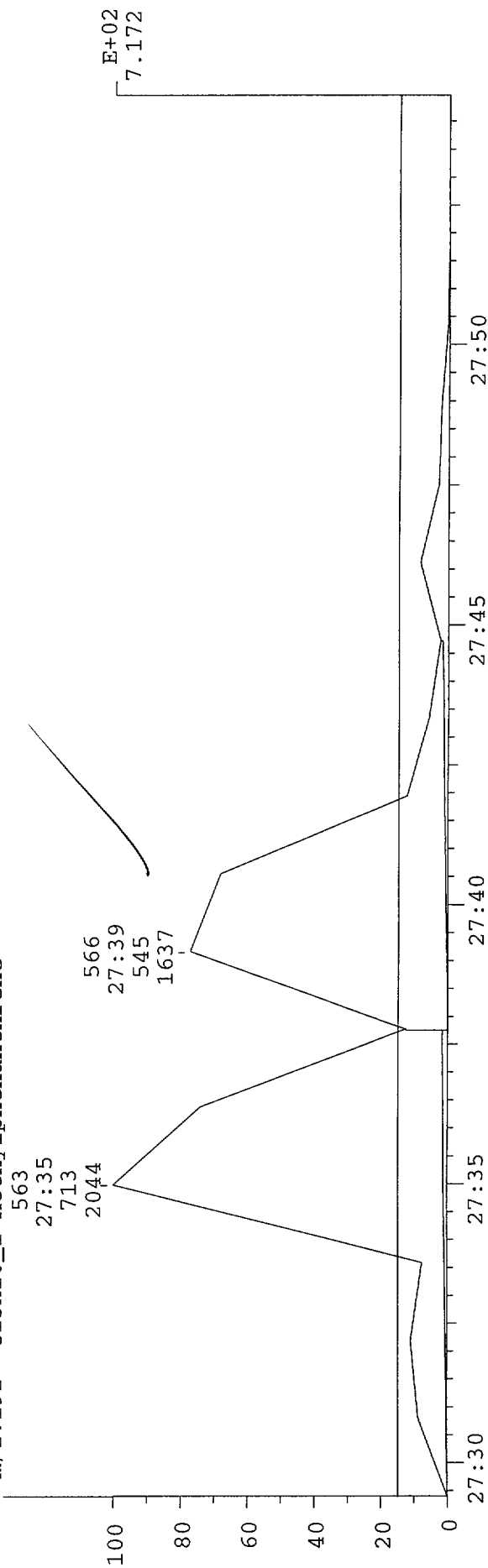


CHRO: Yh2h2522 27-APR-06 Elapse: 41:00 1327
Samp: WO=h2h251aa Meth=YA1 Dil=1 Start: 23:08:00 1384
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF Study: 6100060
Oper: JMN Client: H6D030241-012 Inlet: 0 > 308
Peak: 100.00 ppm Label wndw: 559 > 577 Masses: -2, 3.0
Area: 5, 0.50, 15 Baseline: 100, 3
Disp: Height Area

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Yh2h2522
 Samp: WO=h2h251aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-012
 Peak: 100.00 ppm Label wndw: 648 > 725
 Area: 5, 0.50, 15 Baseline: 100, 3
 Disp: Height Area

27-APR-06 Elapse: 41:00 1327
 Start: 23:08:00 1384

Study: 6100060

Inlet:

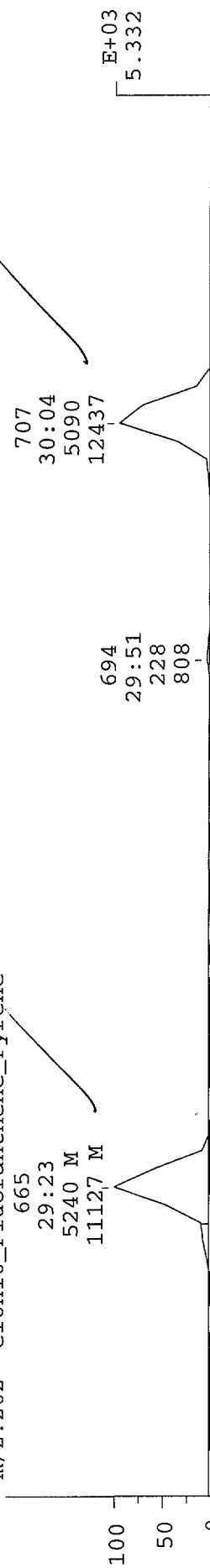
Masses: 0 > 308

Label: -2, 3.0

m/z:200 "C16H10_Fluoranthene_Pyrene"



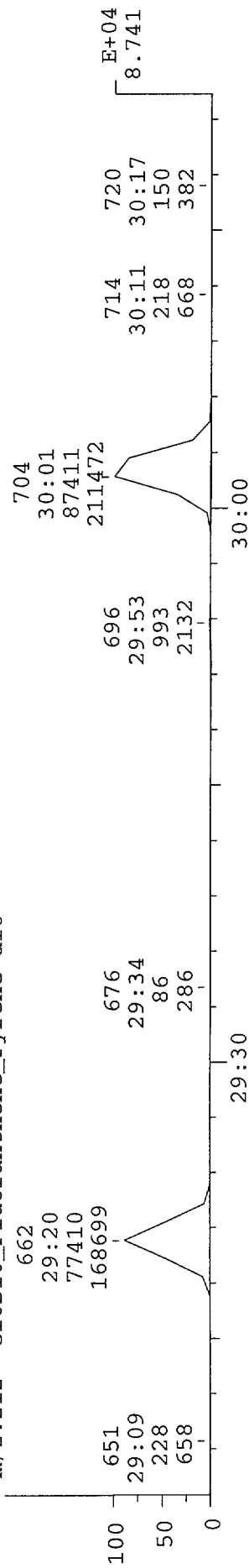
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 "C16D10_Fluoranthene_Pyrene-d10"



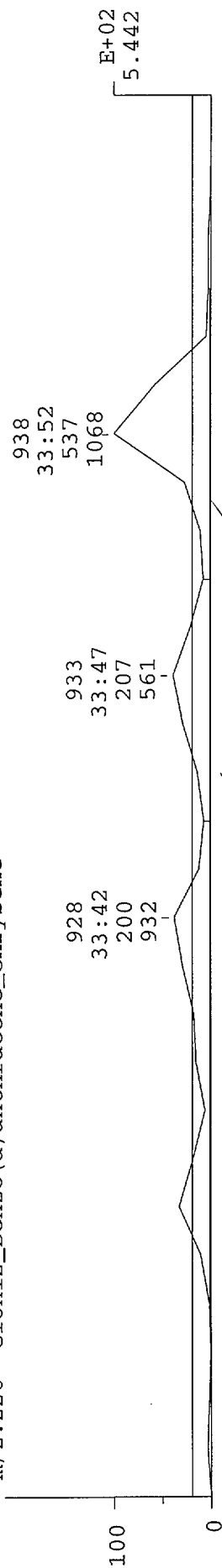
m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



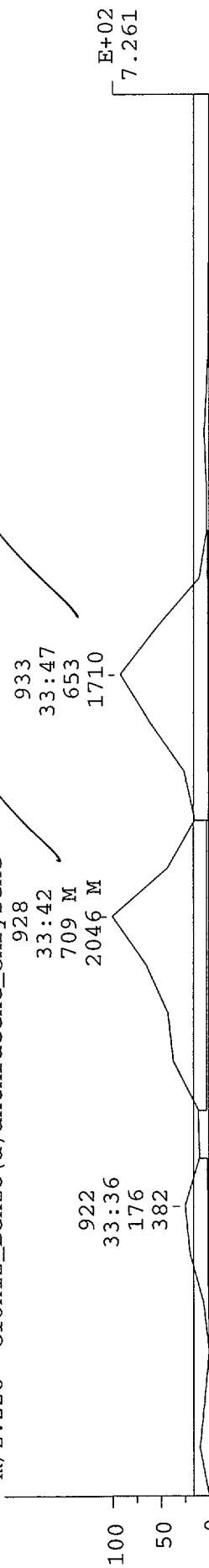
CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wndw: 916 > 945
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



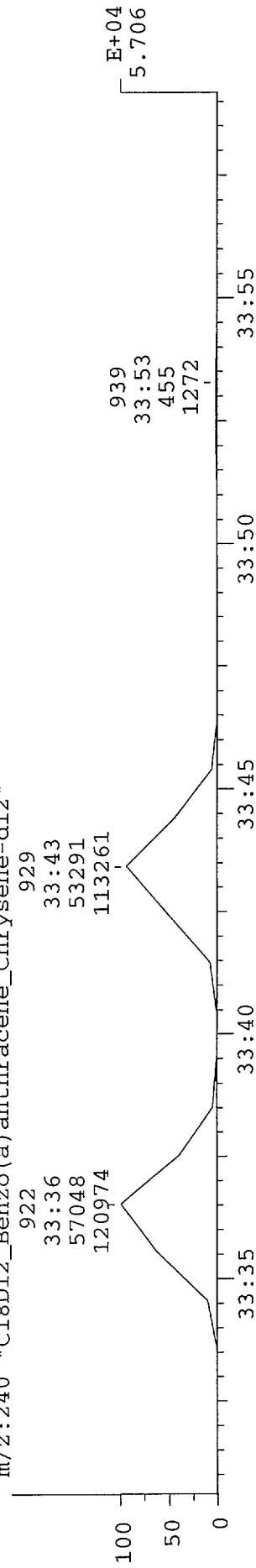
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"

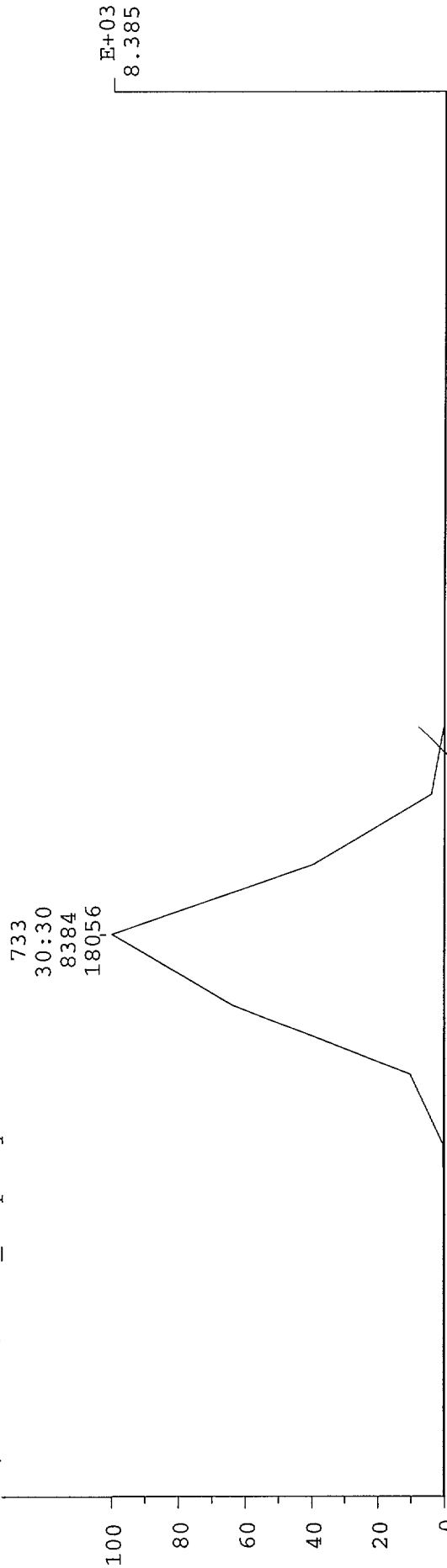


CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1 1327
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i 1384
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wmdw: 725 > 745
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

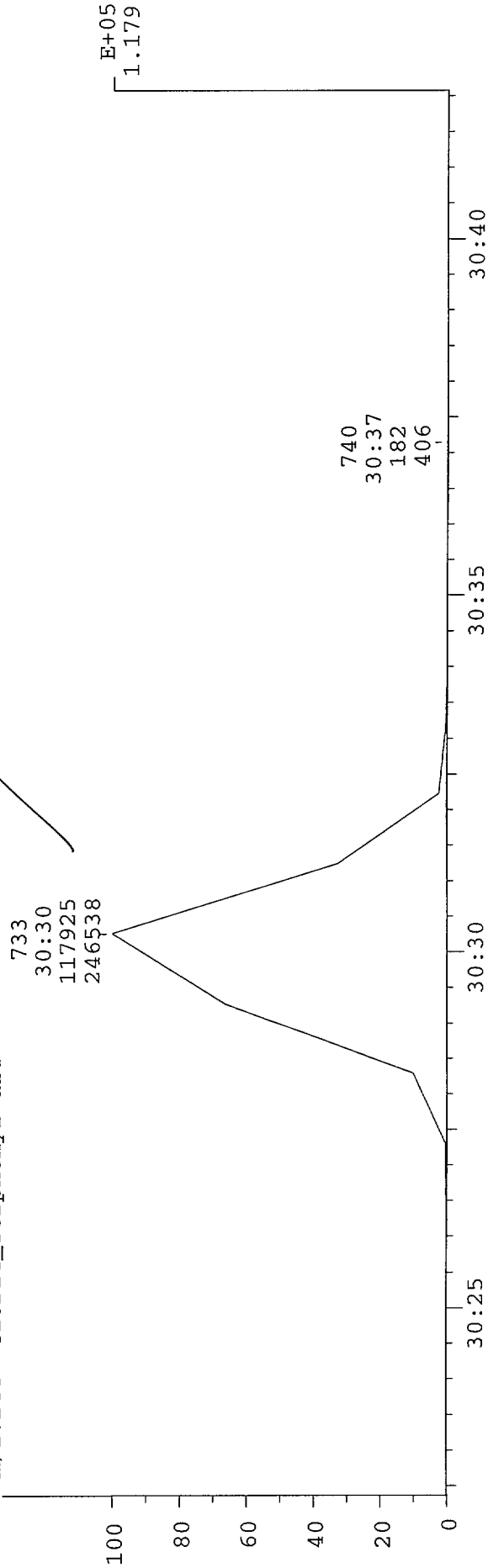
27-APR-06 Elapse: 41:00 1327
Start : 23:08:00 1384

Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:242 "C18D14_Terphenyl-d14"

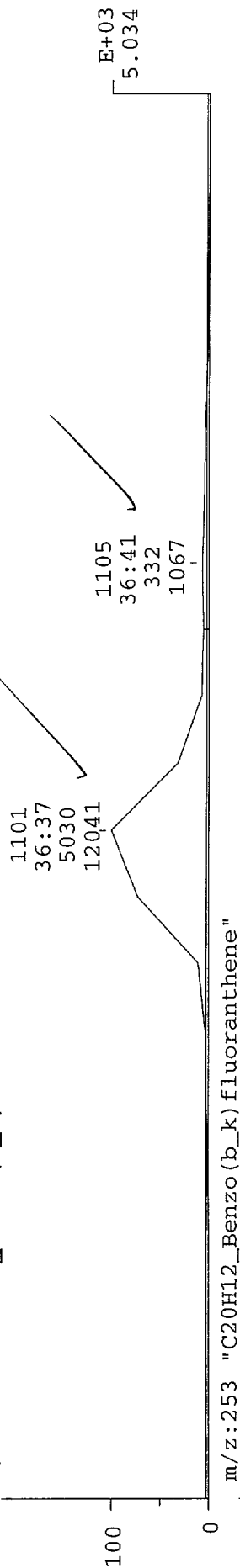


m/z:244 "C18D14_Terphenyl-d14"

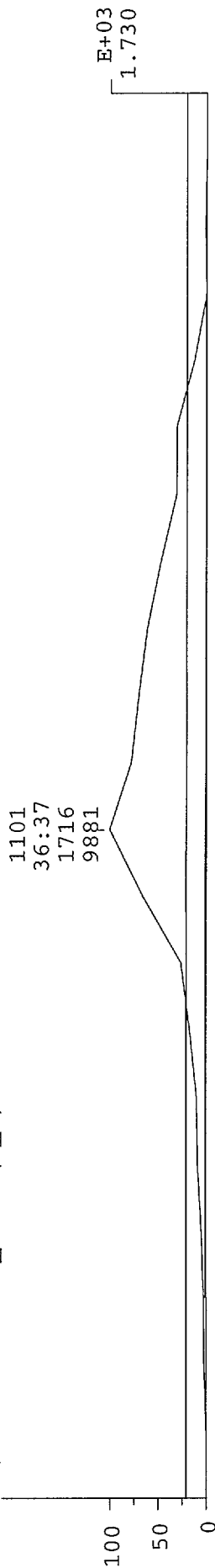


CHRO: yh2h2522
Samp: WO=h2h251aa Meth=YA1 Dil=1 27-APR-06 Elapse: 41:00 1327
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i Start : 23:08:00 1384
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012 Study : 6100060
Peak: 100.00 ppm Label wndw: 1091 > 1112 Inlet :
Area: 5, 0.50, 15 Baseline : 100, 1 Masses: 0 > 308
Disp: Height Area Label : -2, 3.0

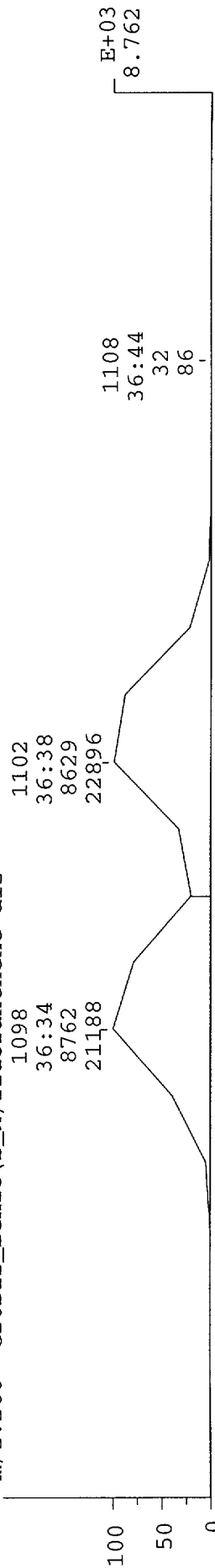
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



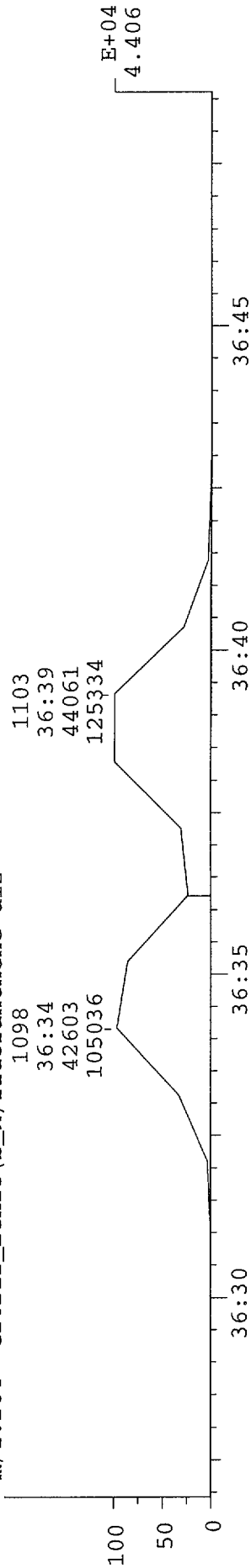
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



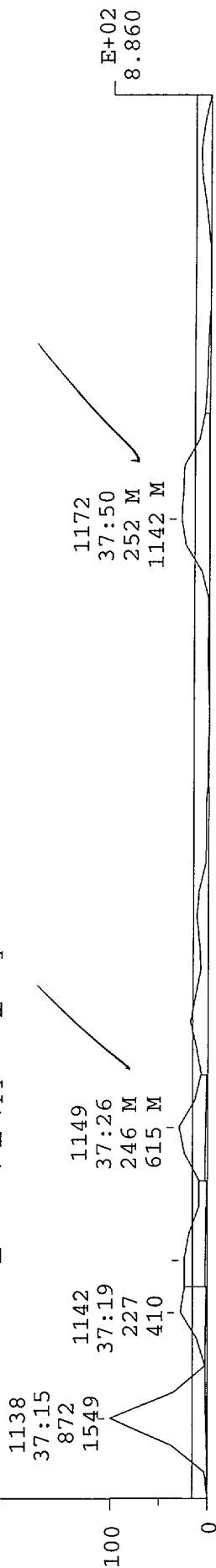
m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



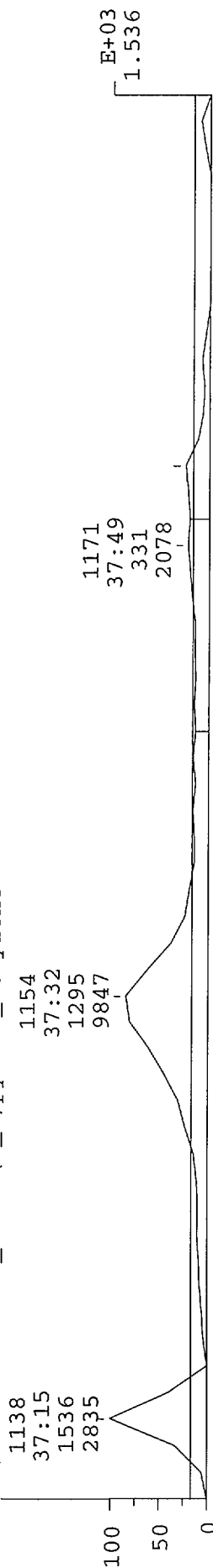
CHRO: Yh2h2522
 Samp: WO=h2h251aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-012
 Peak: 100.00 ppm Label wdw: 1135 > 1188
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

27-APR-06 Elapse: 41:00 1327
 Start : 23:08:00 1384
 Study : 6100060
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

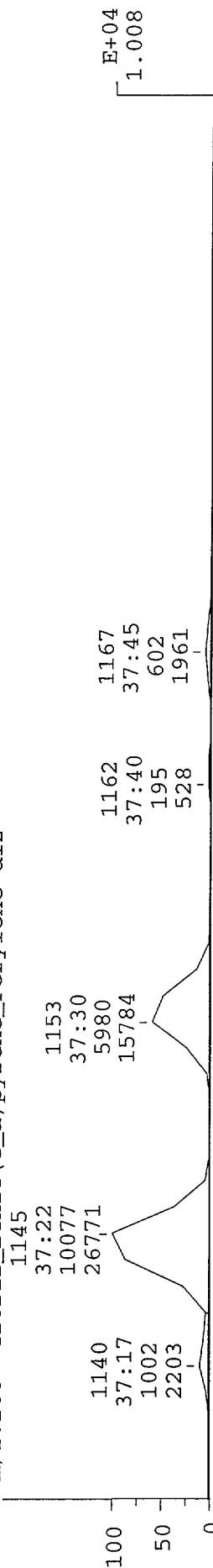
m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



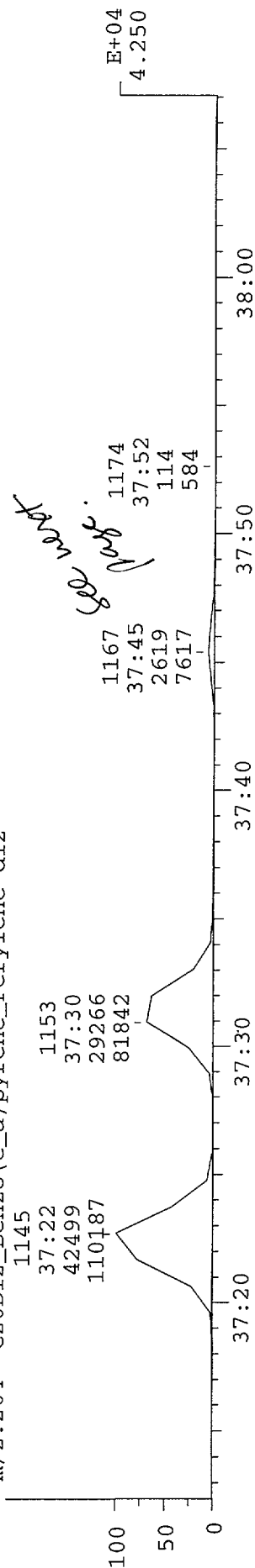
m/z:253 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"

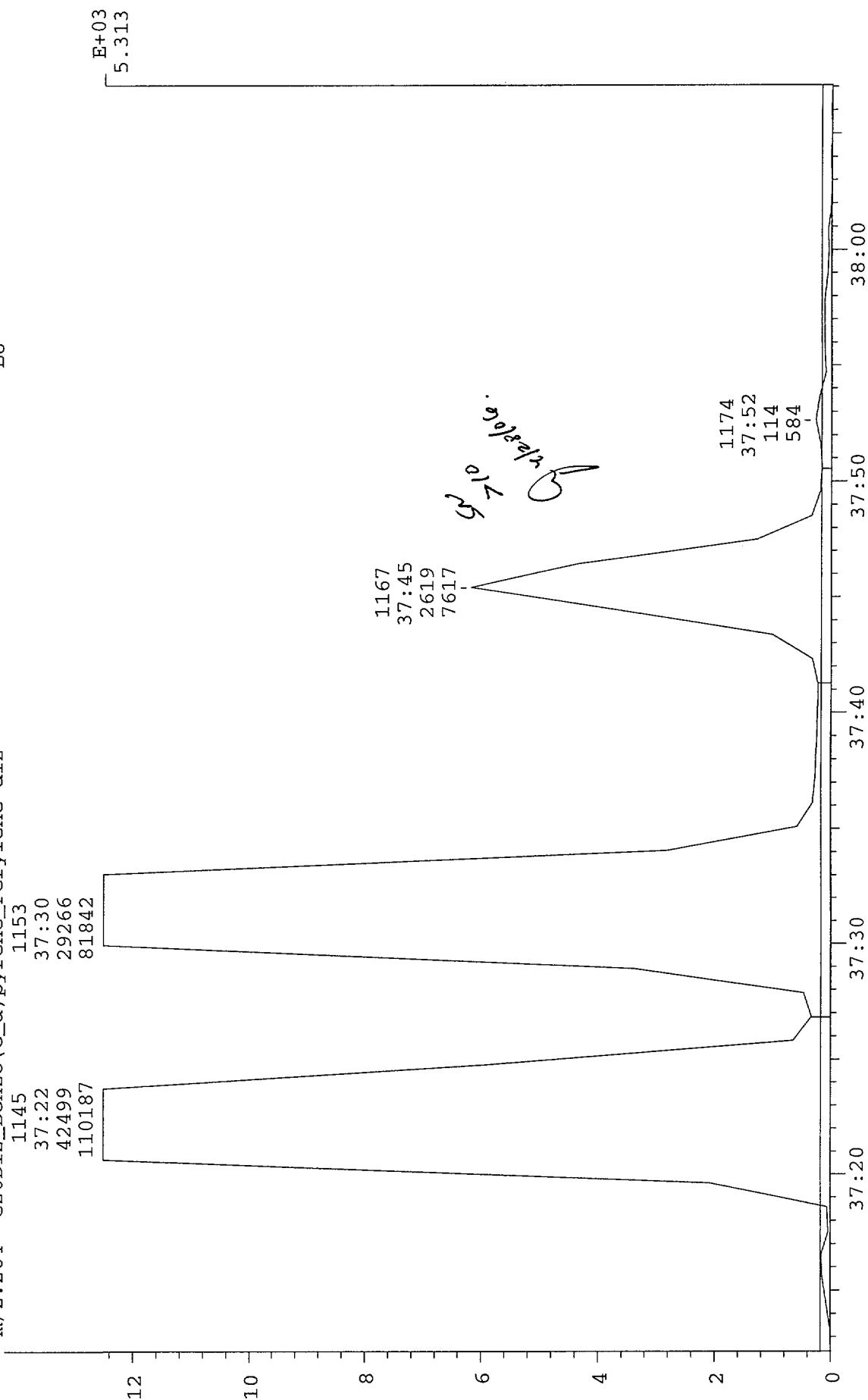


CHRO: Yh2h2522
 Samp: WO=h2h251aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-012
 Peak: 100.00 ppm Label wmdw: 1135 > 1188
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

27-APR-06 Elapse: 37:19 1142
 Start : 23:08:00 1384
 Study : 6100060
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"

B8

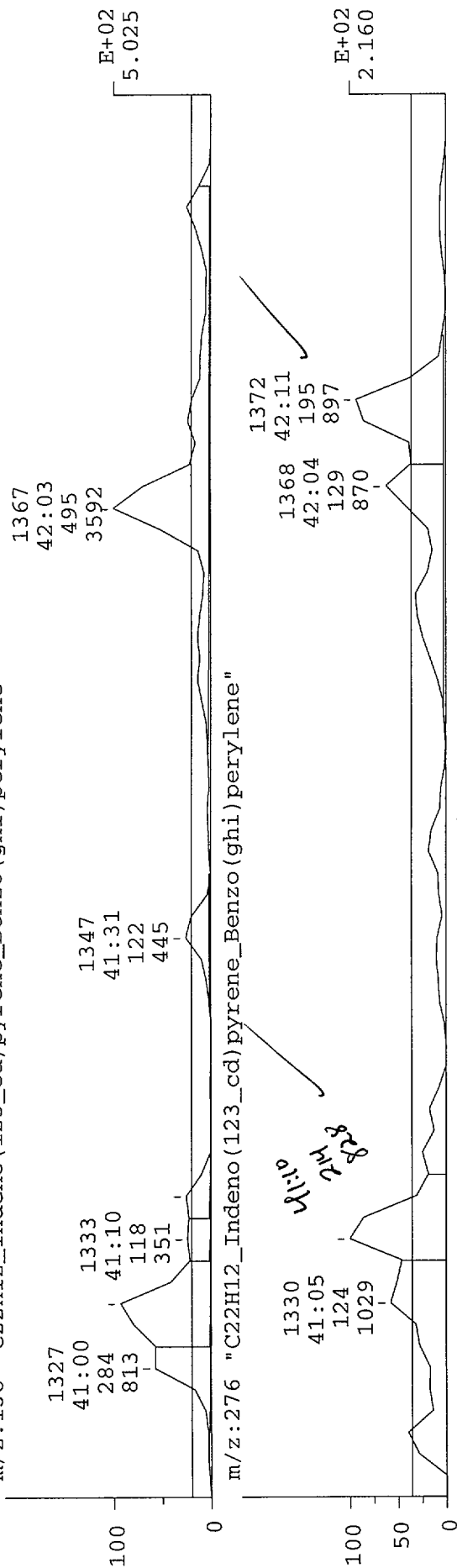


CHRO: yh2h2522
 Samp: WO=h2h251aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=200604261
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-012
 Peak: 100.00 ppm Label wndw: 1321 > 1387
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

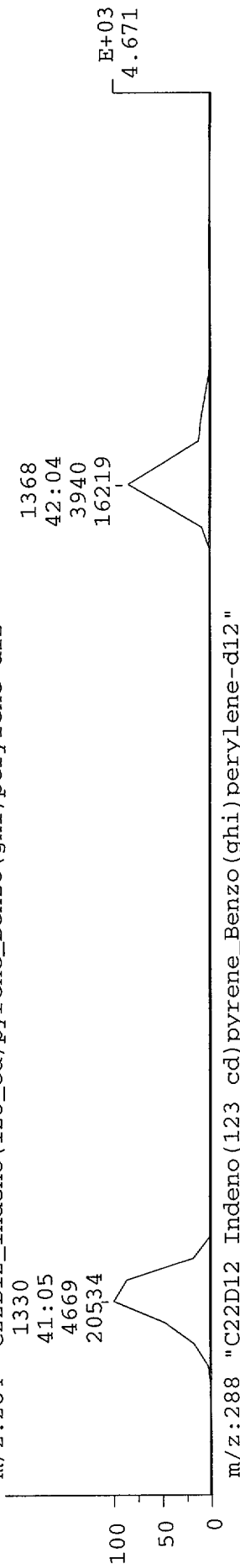
27-APR-06 Elapse: 37:19 1142
 Start : 23:08:00 1384

Study : 6100060
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

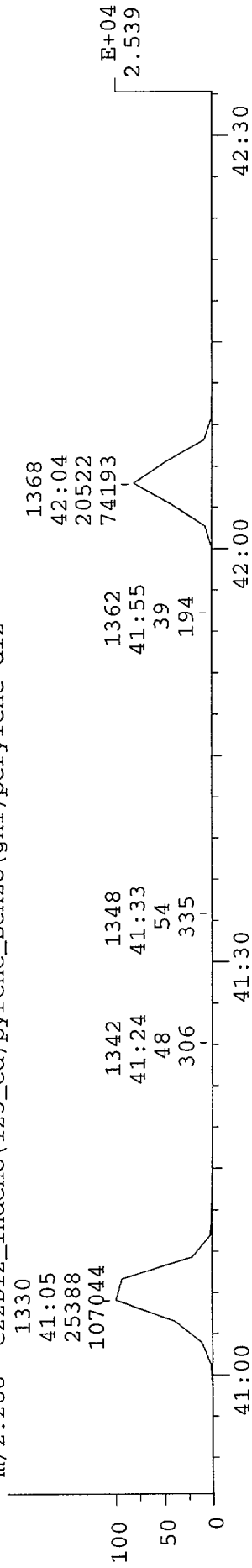
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



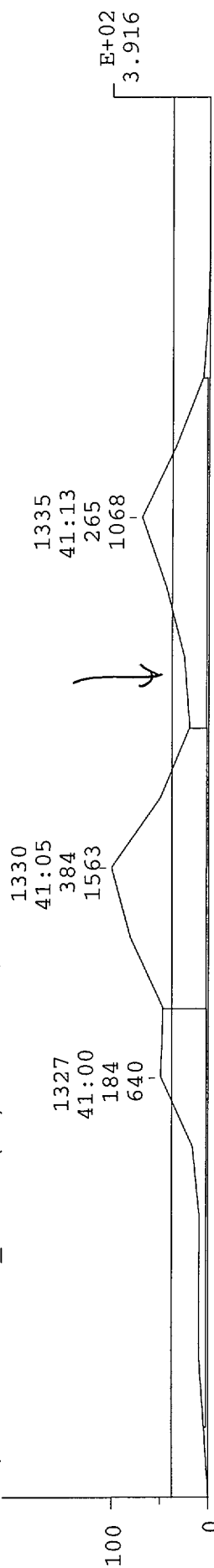
m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



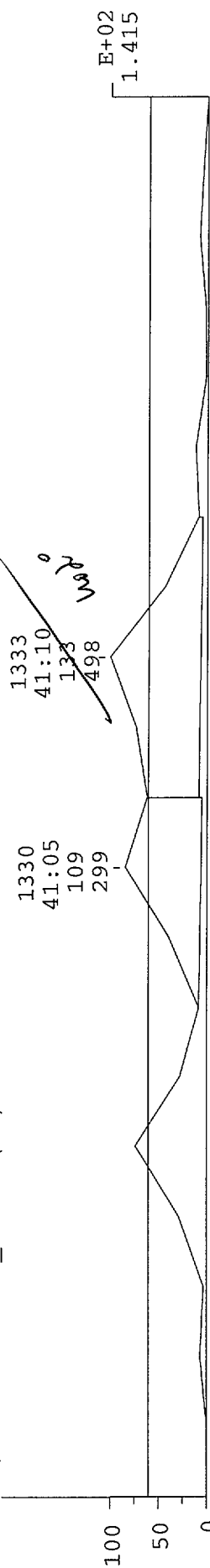
CHRO: yh2h2522
 Samp: WO=h2h251aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-012
 Peak: 100.00 ppm Label wdw: 1321 > 1341
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

27-APR-06 Elapse: 37:19 1142
 Start : 23:08:00 1384
 Study : 6100060
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

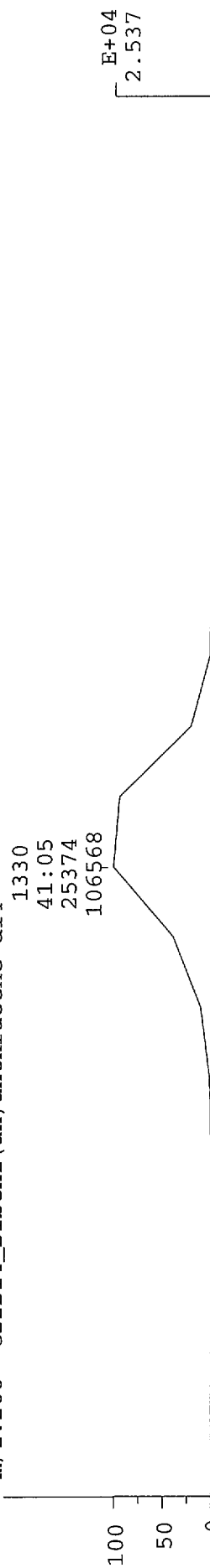
m/z:139 "C22H14_Dibenz(ah)anthracene"



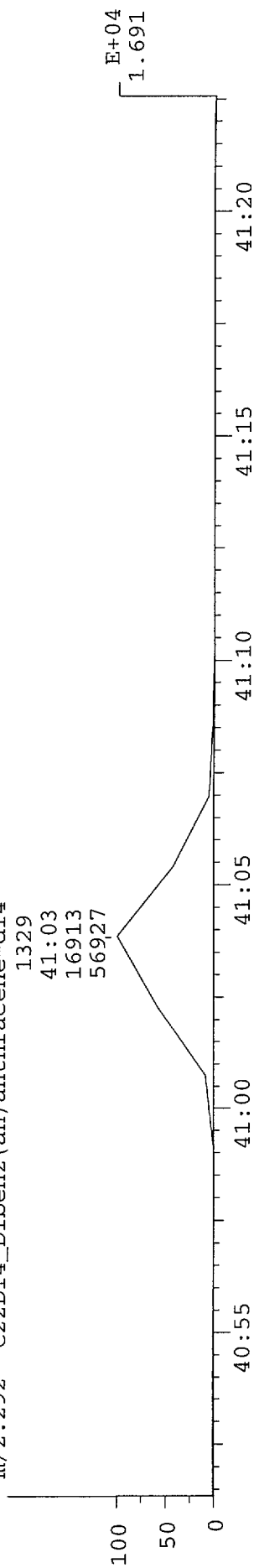
m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: YH2H2522.D
 Date Acquired: 27 Apr 2006 11:08 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: H2H251AA
 Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
 Vial Number: 22
 Sample Mult: 1
 Sample Amount: 0
 Exp. Barcode:
 Act. Barcode:

Beginning Export Process Fri Apr 28 01:21:00 2006
 d:\cdf\files\YH2H2522.CDF Translated at Fri Apr 28 01:21:00 2006 Elapsed: 1 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Thu Apr 27 19:47:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h2522.dat
 NetCDF File (input): /usr/users/hp/data/yh2h2522.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 19:47:01 EDT 2006

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

STL Knoxville - ACS

Sample ID: G-3111/3112-R3-MM5 BACK HALF COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 012	Work Order #....:	H2H252AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	10
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				

<u>PARAMETER</u>	<u>RESULT</u>	<u>MINIMUM LEVEL</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
Naphthalene	17000 B	200	1.8	ng/sampl

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Naphthalene-d8	84	15 - 120

QUALIFIERS

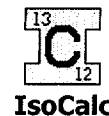
Results and reporting limits have been adjusted for dry weight.

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder H2H252AA
 Data File /20060428s1/yh2h256.d
 Analysis ID 90382
 Analysis Date 4/28/2006
 Analysis Time 16:12
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100060
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 ✓
 Extract Vol 1
 Dil Factor 10.0

Lot No H6D030241-012
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXSIOYA01
 Method DXLPAH
 Code YA1

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample)	DL (ng/samp)
Naphthalene-d8	15:58	17240	5092	1.623	500.0	421.092524	84.22	421.092524	1.85
Naphthalene	16:03	704354	214651	1.233		16572.7894		16572.7894 B	1.79
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene								ND	0.000000
2-Methylnaphthalene	18:03	2230	907	1.270		65.199858		65.199858 J	1.81
2-Methylnaphthalene-d10	17:58	13469	5435	1.093	500.0	488.659928	97.73	488.659928	2.11
1-Methylnaphthalene	18:23	1423	581	1.358		45.082898		45.082898 J	2.07
1-Methylnaphthalene-d10	18:17	11623	4449	0.958	500.0	481.235946	96.25	481.235946	2.41
1-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:27	2942	477	1.552		70.364162		70.364162 J	3.26
2,6-Dimethylnaphthalene	19:56	716	230	1.240		21.393767		21.393767 J	4.70
2,6-Dimethylnaphthalene-d1	19:47	13491	5787	1.009	500.0	530.061321	106.01	530.061321	3.20
C2 Alkyl naphthalenes		1955	555	1.240		67.105522		67.105522 J	5.34
Acenaphthylene	20:48	1210	162	1.221		34.108787		34.108787 J	2.17
Acenaphthylene-d8	20:45	14524	4727	1.646	500.0	349.815890	69.96	349.815890	1.54
Acenaphthene-d10	21:16	12609	5425	1.000	500.0	500.000000	100.00	500.000000	4.38
Acenaphthene	21:21	1154	198	0.740		53.719500		53.719500 J	7.87
2,3,5-Trimethylnaphthalene	22:27	316	56	1.140		10.274862		10.274862 J	2.08
C3 Alkyl naphthalenes		5634	2056	1.140		153.629790		153.629790 J	2.37
Fluorene d-10	22:46	33434	15354	0.805	1000	990.765844	99.08	990.765844	2.90
Fluorene-C13	22:52	35004	12989	0.752	1000	1109.41726	110.94	1109.41726	1.36
Fluorene	22:52	502	122	0.892		13.418998		13.418998 J	2.45
Phenanthrene-d10	25:42	20971	8564	0.793	500.0	532.706530	106.54	532.706530	1.27
Phenanthrene	25:46	3198	1387	1.210		63.007246		63.007246 J	2.89
Anthracene-d10	25:52	247	71	0.704		7.067810		7.067810	1.43
Anthracene	25:54	700	213	1.065		15.676447		15.676447 J	3.29
1-Methylphenanthrene				0.871				ND	1.68
Fluoranthene-d10	29:20	20082	8292	0.761	500.0	531.108634	106.22	531.108634	1.03
Fluoranthene	29:23	1527	582	1.298		29.287991		29.287991 J	1.05
Pyrene-d10	30:01	24828	11201	1.000	500.0	500.000000	100.00	500.000000	0.781
Pyrene	30:04	1498	599	1.319		28.278943		28.278943 J	1.03
Terphenyl-d14	30:29	29967	14787	0.762	1000	979.690066	97.97	979.690066	0.396
Benzo(a)Anthracene-d12	33:35	13477	6347	0.514	500.0	527.934322	105.59	527.934322	1.95
Benzo(a)anthracene	33:41	338	78	1.385		9.055698		9.055698 J	1.14
Chrysene-d12	33:42	13115	5863	0.516	500.0	511.829327	102.37	511.829327	1.95
Chrysene	33:47	272	94	1.333		7.777041		7.777041 J	1.28
Benzo(b)Fluoranthene-d12	36:34	12328	4634	0.895	500.0	550.471025	110.09	550.471025	3.68
Benzo(k)Fluoranthene-d12	36:38	12878	5209	1.030	500.0	499.335313	99.87	499.335313	3.20
Benzo(b)fluoranthene	36:36	1300	545	1.446		36.475075		36.475075 J	3.73
Benzo(k)fluoranthene	36:41	333	94	1.093		11.823916		11.823916 J	4.39
Benzo(e)pyrene-d12	37:21	12517	4935	1.000	500.0	500.000000	100.00	500.000000	3.29
Benzo(e)pyrene	37:25	618	95	1.495		24.508412		24.508412 J	5.60
Benzo(a)Pyrene-d12	37:31	8432	2987	0.776	500.0	434.030020	86.81	434.030020	4.24
Benzo(a)pyrene	37:34	373	87	1.286		17.201905		17.201905 J	6.51
Perylene-d12	37:45	1241	328	0.936	500.0	52.948922	10.59	52.948922	3.52
Perylene	37:49	563	81	1.140		198.986940		198.986940 J	66.9
3-Methylcholanthrene								ND	0.000000

4/28/06
 JMK

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder H2H252AA	Prep Batch 6100060	Lot No H6D030241-012
Data File /20060428s1/yh2h256.d	Prep Date 04/10/06	SDG No
Analysis ID 90382	Prep Exp Date 04/20/06	Date Received 04/02/06
Analysis Date 4/28/2006	Matrix AIR	Date Sampled 03/30/06
Analysis Time 16:12	Initial Wt/Vol 1	Lims Test Code XXSIOYA01
Anal Exp Date 05/20/06	Extract Vol 1	Method DXLPAH
Instrument H2A	Dil Factor 10.0	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	5484	1577	0.402	500.0	545.346884	109.07	545.346884	3.15
Indeno(1,2,3-cd)pyrene-d12	41:05	10274	2494	0.772	500.0	531.539290	106.31	531.539290	0.984
Indeno(1,2,3-cd)pyrene	41:10	319	59	1.259		12.329223		12.329223 J	1.99
Dibenz (a,h) anthracene	41:08	264	44	1.961		12.277048		12.277048 J	2.02
Benzo (ghi) Perylene-d12	42:03	7320	1876	0.561	500.0	521.311325	104.26	521.311325	1.35
Benzo (ghi) perylene	42:09	291	46	1.639		12.126243		12.126243 J	2.03
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene								ND	0.000000



PAH's by LRMS Extended List

Workorder H2H252AA
 Data File /20060428s1/yh2h256.d
 Analysis ID 90382
 Analysis Date 04/28/06 16:12
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100060
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 10.00

Lot No H6D030241-012
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXSIOYA01
 Method DXLPAH
 Code YAI

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	23		9				
	Naphthalene	16:03	16:00	3	704354	✓	214651			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	33		13				
	Naphthalene-d8	15:58	15:57	1	17240	✓	5092			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	25		10				
	Unidentified	17:31	00:00	0	310		93			ABB	
	Unidentified	17:50	00:00	0	312		92			ABB	
	2-Methylnaphthalene	18:03	18:03	0	2230		907			ABB	
	1-Methylnaphthalene	18:23	18:22	1	1423		581			ABB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	25		10				
	Unidentified	17:03	00:00	0	1183		363			ABB	
	2-Methylnaphthalene-d10	17:58	17:58	0	13469		5435			ABB	
	1-Methylnaphthalene-d10	18:17	18:17	0	11623		4449			ABB	
	Unidentified	18:25	00:00	0	237		64			ABB	
	Acenaphthylene	20:48	20:48	0	1210		162			AVV	
	Unidentified	21:17	00:00	0	2495		149			AVV	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	55		22				
	Unidentified	18:46	00:00	0	3424		264			ABV	
	Biphenyl	19:27	19:26	1	2942		477			AVV	
	Acenaphthene	21:21	21:21	0	1154		198			AVV	
	Unidentified	21:36	00:00	0	2717		229			AVV	
156					156.0000		156.0000				
	Noise	00:00	00:00	0	68		27				
	2,6-Dimethylnaphthalene	19:56	19:54	2	716		230			ABB	
	Unidentified	20:45	00:00	0	1955		555			AVB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	28		11				
	Acenaphthylene-d8	20:45	20:46	-1	14524		4727			AVV	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	45		18				
	Unidentified	18:57	00:00	0	1416		199			ABV	
	Unidentified	19:31	00:00	0	537		86			AVV	
	Unidentified	19:38	00:00	0	1185		143			AVV	
	Unidentified	19:47	00:00	0	1343		415			AVV	
	Unidentified	20:14	00:00	0	1750		634			AVV	
164					164.0000		164.0000				
	Noise	00:00	00:00	0	48	✓	19				
	Acenaphthene-d10	21:16	21:16	0	12609		5425			ABB	
166					166.0000		166.0000				

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

PAH's by LRMS Extended List

Workorder H2H252AA
 Data File /20060428s1/yh2h256.d
 Analysis ID 90382
 Analysis Date 04/28/06 16:12
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100060
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Dilution Factor 10.00

Lot No H6D030241-012
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXSIOYA01
 Method DXLPAH
 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
166					166.0000		166.0000				
	Noise	00:00	00:00	0	38		15				
	Fluorene	22:52	22:52	0	502		122			ABB	
	Unidentified	24:25	00:00	0	462		179			ABB	
168					168.0000		168.0000				
	Noise	00:00	00:00	0	35		14				
	2,6-Dimethylnaphthalene	19:47	19:47	0	13491		5787			AVV	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	38		15				
	Unidentified	18:57	00:00	0	848		102			AVV	
	Unidentified	19:17	00:00	0	970		117			AVV	
	Unidentified	19:47	00:00	0	2902		814			AVV	
170					170.0000		170.0000				
	Noise	00:00	00:00	0	28		11				
	2,3,5-Trimethylnaphthal	22:27	22:28	-1	316		56			ABB	
	Unidentified	22:52	00:00	0	5634		2056			AVB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	18		7				
	Fluorene-Cl3	22:52	22:52	0	35004		12989			ABV	
176					176.0000		176.0000				
	Noise	00:00	00:00	0	40		16				
	Fluorene d-10	22:46	22:47	-1	33434		15354			ABB	
	Unidentified	24:52	00:00	0	1172		411			ABB	
	Unidentified	25:46	00:00	0	781		340			ABB	
	Unidentified	26:25	00:00	0	2937		658			ABB	
	Unidentified	27:04	00:00	0	1021		369			ABB	
178					178.0000		178.0000				
	Noise	00:00	00:00	0	60		24				
	Phenanthrene	25:46	25:47	-1	3198		1387			ABB	
	Anthracene	25:54	25:54	0	700		213			ABB	
	Unidentified	27:04	00:00	0	833		310			ABB	
	Unidentified	27:10	00:00	0	439		184			ABB	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	23		9				
	Phenanthrene-d10	25:42	25:43	-1	20971		8564			ABV	
	Anthracene-d10	25:52	25:52	0	247		71			AVB	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	25		10				
	Unidentified	27:04	00:00	0	2564		585			AVV	
	Unidentified	27:35	00:00	0	2108		190			AVV	
202					202.0000		202.0000				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene	29:23	29:23	0	1527		582			ABB	
	Unidentified	29:51	00:00	0	155		43			ABB	

Notes:

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

PAH's by LRMS Extended List

Workorder H2H252AA
 Data File /20060428s1/yh2h256.d
 Analysis ID 90382
 Analysis Date 04/28/06 16:12
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100060
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 10.00

Lot No H6D030241-012
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXSIOYA01
 Method DXLPAH
 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
202					202.0000		202.0000				
	Pyrene	30:04	30:05	-1	1498		599			ABB	
	Unidentified	30:28	00:00	0	383		77			ABB	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene-d10	29:20	29:20	0	20082		8292			ABV	
	Unidentified	29:51	00:00	0	2153		1203			AVV	
	Pyrene-d10	30:01	30:01	0	24828		11201			AVV	
	Unidentified	30:29	00:00	0	2777		1234			AVB	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	20		8				
	Unidentified	33:24	00:00	0	342		179			ABB	
	Benzo(a)anthracene	33:41	33:39	2	338		78			ABV	
	Chrysene	33:47	33:47	0	272		94			AVB	
240					240.0000		240.0000				
	Noise	00:00	00:00	0	23		9				
	Unidentified	32:56	00:00	0	141		48			ABB	
	Benzo(a)Anthracene-d12	33:35	33:36	-1	13477		6347			ABV	
	Chrysene-d12	33:42	33:43	-1	13115		5863			AVV	
	Unidentified	33:52	00:00	0	365		83			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
	Terphenyl-d14	30:29	30:30	-1	29967		14787			ABV	
252					252.0000		252.0000				
	Noise	00:00	00:00	0	50		20				
	Benzo(b)fluoranthene	36:36	36:37	-1	1300		545			ABV	
	Benzo(k)fluoranthene	36:41	36:40	1	333		94			AVB	
	Unidentified	37:04	00:00	0	770		244			ABV	
	Benzo(e)pyrene	37:25	37:25	0	618		95			AVV	
	Benzo(a)pyrene	37:34	37:34	0	373		87			AVV	
	Perylene	37:49	37:48	1	563		81			AVV	
	Unidentified	38:10	00:00	0	781		84			AVV	
264					264.0000		264.0000				
	Noise	00:00	00:00	0	33		13				
	Benzo(b)Fluoranthene-d1	36:34	36:33	1	12328		4634			ABV	
	Benzo(k)Fluoranthene-d1	36:38	36:37	1	12878		5209			AVB	
	Benzo(e)pyrene-d12	37:21	37:21	0	12517		4935			ABV	
	Benzo(a)Pyrene-d12	37:31	37:30	1	8432		2987			AVV	
	Perylene-d12	37:45	37:44	1	1241		328			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	40		16				
	Unidentified	38:10	00:00	0	821		86			AVV	
	Unidentified	38:48	00:00	0	1877		299			AVB	
276					276.0000		276.0000				

Notes:

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

PAH's by LRMS Extended List

Workorder H2H252AA
 Data File /20060428s1/yh2h256.d
 Analysis ID 90382
 Analysis Date 04/28/06 16:12
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100060
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 10.00

Lot No H6D030241-012
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXSIOYA01
 Method DXLPAH
 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	13		5				
	Indeno(1,2,3-cd)pyrene	41:10	41:09	1	319		59			ABB	
	Benzo(ghi)perylene	42:09	42:10	-1	291		46			ABB	
278					278.0000		278.0000				
	Noise	00:00	00:00	0	13		5				
	Dibenz(a,h)anthracene	41:08	41:09	-1	264		44			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	8		3				
	Indeno(1,2,3-cd)pyrene-	41:05	41:04	1	10274		2494			ABV	
	Benzo(ghi)Perylene-d12	42:03	42:03	0	7320		1876			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	13		5				
	Dibenz(ah)Anthracene-d1	41:02	41:02	0	5484		1577			ABV	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	8		3				
	Unidentified	39:47	00:00	0	1678		72			AVV	
308					308.0000		308.0000				
	Noise	00:00	00:00	0	5		2				
	Unidentified	39:31	00:00	0	1612		82			ABV	

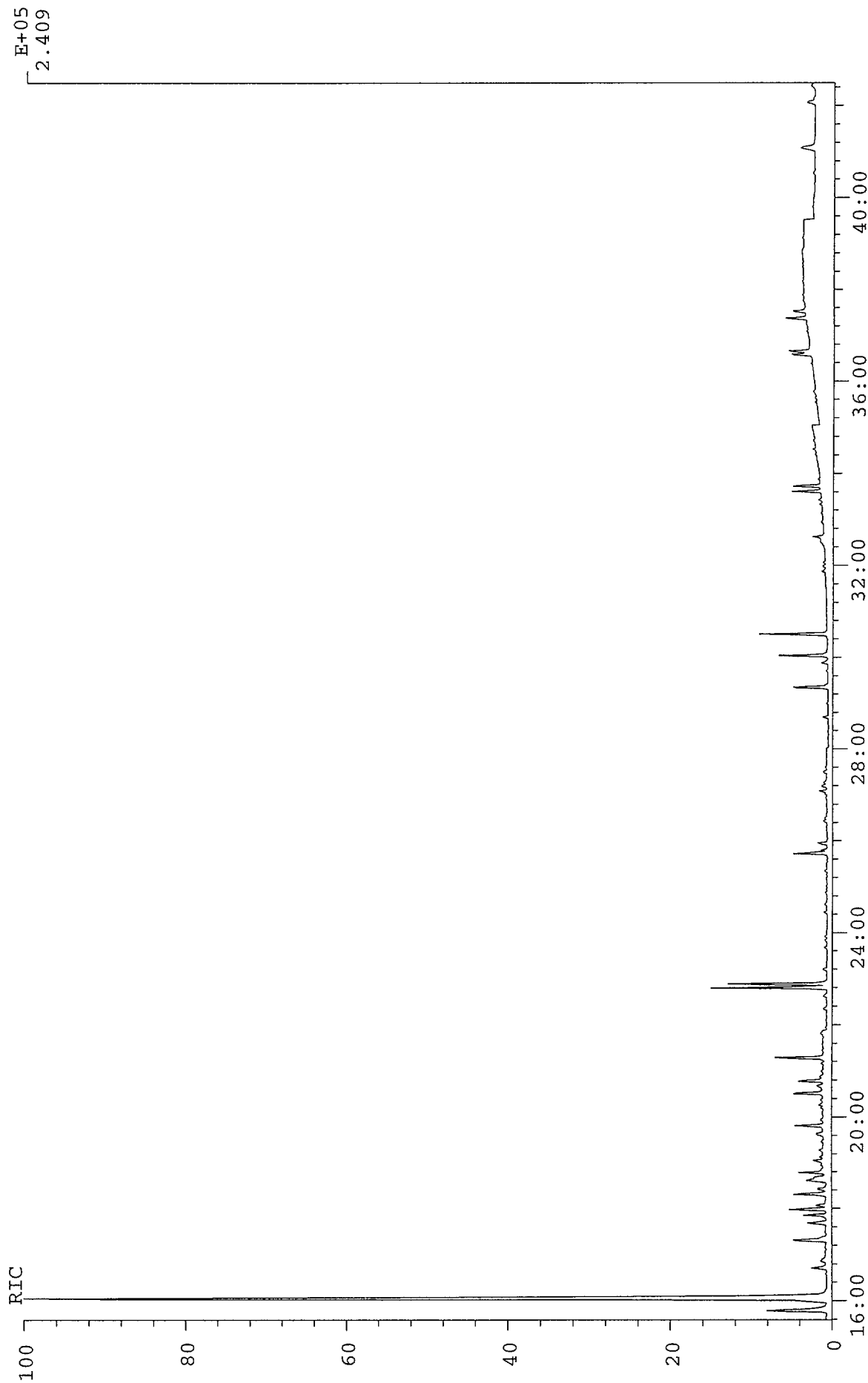
Notes:

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

Int / Calc: 4/12/06
 QC 1Re 1VM1C 4/28/06

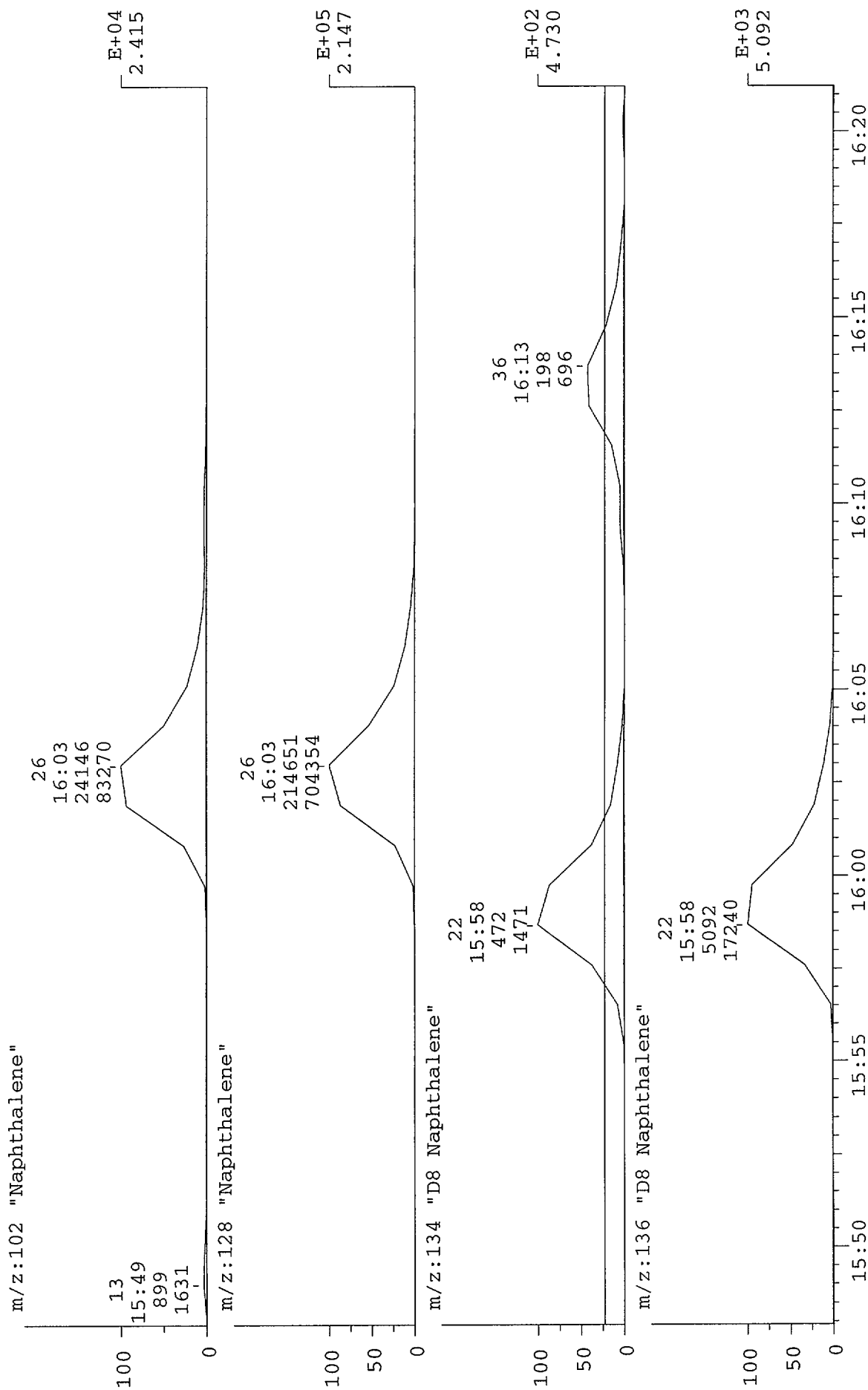
CHRO: Yh2h256
 Samp: WO=h2h252aa Meth=YA1 Dil=10
 Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-012
 Peak: 100.00 ppm Label wndw: 1 > 1384
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

28-APR-06 Elapse: 41:00 1327
 Start : 16:12:00 1384
 Study : 6100060
 Inlet :
 Masses: 0 > 308
 Label : .0, 3.0



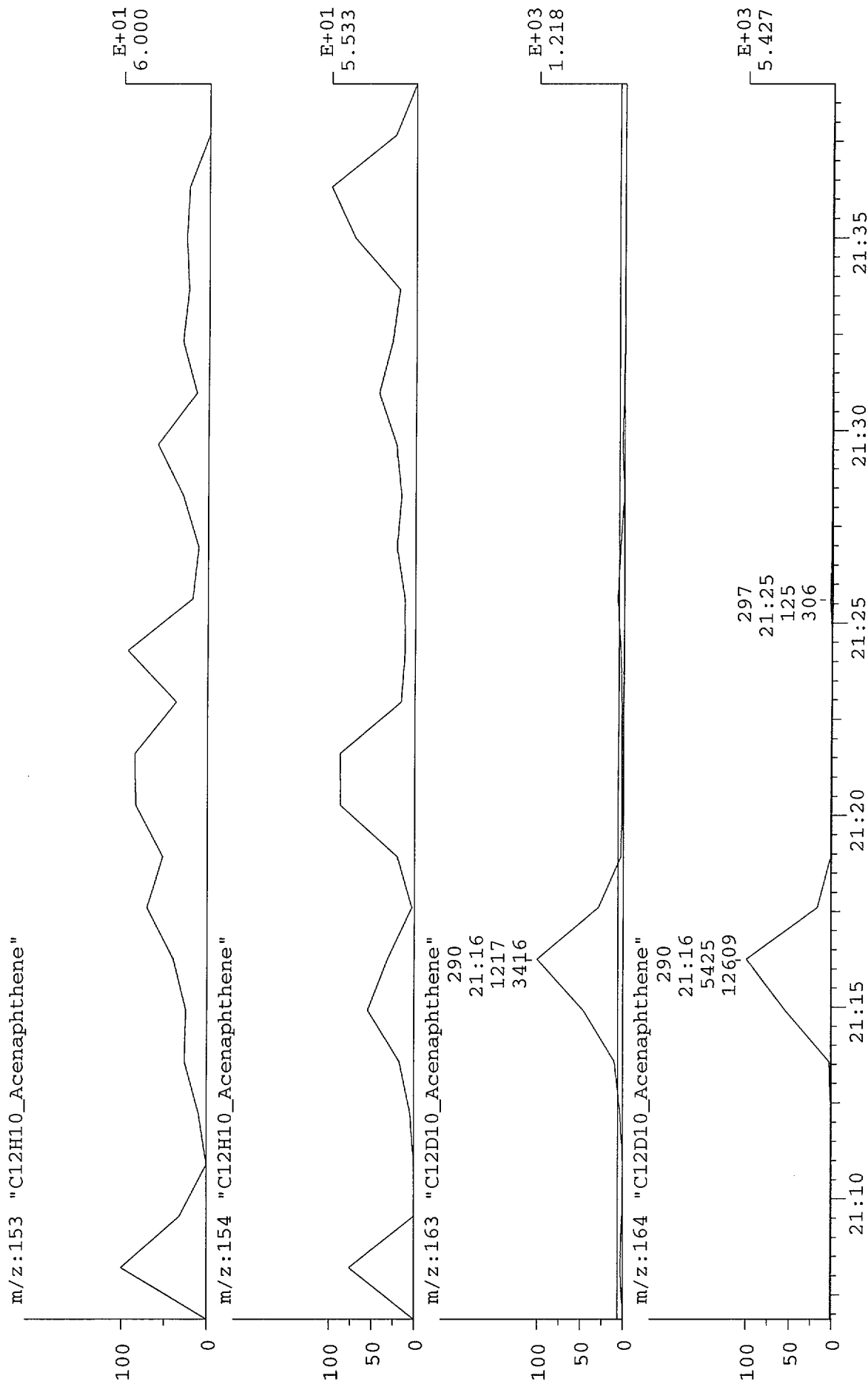
CHRO: yh2h256
Samp: WO=h2h252aa Meth=YA1 Dil=10
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wndw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

28-APR-06 Elapse: 49:19 1735
Start : 16:12:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Yh2h256
Samp: WO=h2h252aa Meth=YA1 Dil=10
Comm: Inst=h2a/695821 Batch=20060428s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-012
Peak: 100.00 ppm Label wdw: 283 > 307
Area: 5, 0.50, 15 Baseline: 100, 3
Disp: Height Area

28-APR-06 Elapse: 49:19 1735
Start: 16:12:00 1384
Study: 6100060
Inlet: 0 > 308
Masses: -2, 3.0
Label: -2, 3.0



File: YH2H256.D
 Date Acquired: 28 Apr 2006 4:12 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: H2H252AA
 Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
 Vial Number: 4
 Sample Mult: 1
 Sample Amount: 0
 Exp. Barcode:
 Act. Barcode:

Beginning Export Process Fri Apr 28 19:13:10 2006
 d:\cdf\files\YH2H256.CDF Translated at Fri Apr 28 19:13:10 2006 Elapsed: 1 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Fri Apr 28 13:39:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h256.dat
 NetCDF File (input): /usr/users/hp/data/yh2h256.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 13:39:03 EDT 2006

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

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	Work Order #....:	H2H261AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	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	1.3	ng/sampl
Acenaphthylene	ND		20	0.32	ng/sampl
Anthracene	ND		20	0.41	ng/sampl
Benzo(a)anthracene	ND		20	0.37	ng/sampl
Benzo(b)fluoranthene	2.3	J	20	1.2	ng/sampl
Benzo(k)fluoranthene	4.7	J	20	1.5	ng/sampl
Benzo(ghi)perylene	ND		20	0.67	ng/sampl
Benzo(a)pyrene	ND		20	1.9	ng/sampl
Benzo(e)pyrene	ND		20	1.6	ng/sampl
Chrysene	ND		20	0.43	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.65	ng/sampl
Fluoranthene	3.4	B J	20	0.17	ng/sampl
Fluorene	1.8	J	20	0.52	ng/sampl
Indeno(1,2,3-cd)pyrene	ND		20	0.68	ng/sampl
2-Methylnaphthalene	15	B J	20	0.80	ng/sampl
Naphthalene	72	B J	20	0.73	ng/sampl
Perylene	ND		20	1.8	ng/sampl
Phenanthrene	5.8	B J	20	0.36	ng/sampl
Pyrene	3.1	B J	20	0.16	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Naphthalene-d8	80	15 - 120
2-Methylnaphthalene-d10	83	20 - 120
Acenaphthylene-d8	90	20 - 120
Phenanthrene-d10	91	30 - 120
Fluoranthene-d10	94	30 - 120
Benzo(a)anthracene-d12	94	30 - 120
Chrysene-d12	86	30 - 120
Benzo(b)fluoranthene-d12	97	30 - 120
Benzo(k)fluoranthene-d12	91	30 - 120
Benzo(a)pyrene-d12	88	30 - 120
Perylene-d12	88	30 - 120
Indeno(1,2,3-cd)pyrene-d12	94	30 - 120
Dibenz(ah)anthracene-d14	95	30 - 120
Benzo(ghi)perylene-d12	97	30 - 120

STL Knoxville - ACS

Sample ID: G-3113/3114-R3-MM5 IMPINGER COMPOSITE TRAIN B

Trace Level Organic Compounds

Lot - Sample #....:	H6D030241 - 013	Work Order #....:	H2H261AA	Matrix....:	AIR
Date Sampled....:	03/30/06	Date Received....:	04/02/06	Dilution Factor:	1
Prep Date....:	04/10/06	Analysis Date....:	04/19/06		
Prep Batch #:	6100063				
Initial Wgt/Vol :	1 Sample	Instrument ID....:	H2A	Method:	KNOX ID-0016
Analyst ID....:	Jon M. Nordquist				

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Anthracene-d10	82	30 - 140

QUALIFIERS

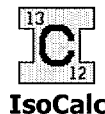
Results and reporting limits have been adjusted for dry weight.

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder H2H261AA	Prep Batch 6100063	Lot No H6D030241-013
Data File /20060418s2/yh2h26.d	Prep Date 04/10/06	SDG No
Analysis ID 90215	Prep Exp Date 04/20/06	Date Received 04/02/06
Analysis Date 4/19/2006	Matrix AIR	Date Sampled 03/30/06
Analysis Time 06:06	Initial Wt/Vol 1	Lims Test Code XXS09YA01
Anal Exp Date 05/20/06	Extract Vol 1	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YA1
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample)	DL (ng/samp)
Naphthalene-d8	15:57	57896	15649	1.748	500.0	400.460773	80.09	400.460773	0.484
Naphthalene	16:01	10145	2724	1.211		72.360703		72.360703 BJ	0.726
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene								ND	0.000000
2-Methylnaphthalene	18:03	1436	573	1.269		15.014766		15.014766 BJ	0.798
2-Methylnaphthalene-d10	17:58	37695	14816	1.104	500.0	412.887925	82.58	412.887925	0.511
1-Methylnaphthalene	18:23	794	311	1.365		8.515825		8.515825 BJ	0.874
1-Methylnaphthalene-d10	18:17	34160	12571	0.958	500.0	430.966970	86.19	430.966970	0.588
1-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl				1.533				ND	1.10
2,6-Dimethylnaphthalene	19:56	566	178	1.249		6.430442		6.430442 BJ	2.71
2,6-Dimethylnaphthalene-d1	19:47	35225	15846	0.977	500.0	436.057513	87.21	436.057513	0.721
C2 Alkyl naphthalenes				1.249		6.430442		6.430442 BJ	2.75
Acenaphthylene				1.244				ND	0.317
Acenaphthylene-d8	20:46	57336	25351	1.548	500.0	447.792983	89.56	447.792983	0.364
Acenaphthene-d10	21:16	41351	17742	1.000	500.0	500.000000	100.00	500.000000	0.775
Acenaphthene				0.762				ND	1.29
2,3,5-Trimethylnaphthalene				1.127				ND	0.560
C3 Alkyl naphthalenes				1.127				ND	0.567
Fluorene d-10				0.837	1000			ND	0.624
Fluorene-C13				0.796	1000			ND	0.382
Fluorene	22:52	205	83	0.915		1.813705		1.813705 J	0.523
Phenanthrene-d10	25:43	61763	28735	0.753	500.0	454.879370	90.98	454.879370	0.202
Phenanthrene	25:47	876	397	1.216		5.830251		5.830251 BJ	0.358
Anthracene-d10	25:52	48155	20254	0.655	500.0	407.965612	81.59	407.965612	0.232
Anthracene				1.059				ND	0.411
1-Methylphenanthrene				0.870				ND	0.500
Fluoranthene-d10	29:21	61531	27810	0.727	500.0	469.800521	93.96	469.800521	0.251
Fluoranthene	29:24	556	261	1.334		3.387449		3.387449 BJ	0.169
Pyrene-d10	30:02	90132	41142	1.000	500.0	500.000000	100.00	500.000000	0.182
Pyrene	30:05	525	238	1.369		3.116681		3.116681 BJ	0.164
Terphenyl-d14				0.796	1000			ND	0.113
Benzo(a)Anthracene-d12	33:36	44087	18723	0.521	500.0	469.434444	93.89	469.434444	0.525
Benzo(a)anthracene				1.454				ND	0.367
Chrysene-d12	33:44	42945	16938	0.557	500.0	427.919226	85.58	427.919226	0.491
Chrysene				1.363				ND	0.433
Benzo(b)Fluoranthene-d12	36:35	43130	18685	0.847	500.0	482.647355	96.53	482.647355	1.24
Benzo(k)Fluoranthene-d12	36:39	48251	19954	1.002	500.0	456.273485	91.25	456.273485	1.05
Benzo(b)fluoranthene	36:39	295	99	1.508		2.268427		2.268427 J	1.20
Benzo(k)fluoranthene	36:44	510	238	1.136		4.650167		4.650167 J	1.49
Benzo(e)pyrene-d12	37:22	52745	19000	1.000	500.0	500.000000	100.00	500.000000	1.05
Benzo(e)pyrene				1.589				ND	1.62
Benzo(a)Pyrene-d12	37:32	34139	13116	0.737	500.0	439.162095	87.83	439.162095	1.43
Benzo(a)pyrene				1.333				ND	1.93
Perylene-d12	37:46	41134	15812	0.887	500.0	439.845774	87.97	439.845774	1.19
Perylene				1.178				ND	1.81
3-Methylcholanthrene								ND	0.000000

VMK 4/26/06 J. J. J.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder H2H261AA
 Data File /20060418s2/yh2h26.d
 Analysis ID 90215
 Analysis Date 4/19/2006
 Analysis Time 06:06
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100063
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1
 Extract Vol 1
 Dil Factor 1.0

Lot No H6D030241-013
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXS09YA01
 Method DXLPAH
 Code YA1

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample)	DL (ng/samp)
Dibenz(ah)Anthracene-d14	41:05	20255	5608	0.405	500.0	474.573442	94.91	474.573442	0.813
Indeno(1,2,3-cd)pyrene-d12	41:07	38727	9978	0.779	500.0	471.246533	94.25	471.246533	0.591
Indeno(1,2,3-cd)pyrene				1.297				ND	0.676
Dibenz(a,h)anthracene				2.059				ND	0.650
Benzo(ghi)Perylene-d12	42:06	28585	7739	0.559	500.0	484.507025	96.90	484.507025	0.823
Benzo(ghi)perylene				1.698				ND	0.666
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene								ND	0.000000



PAH's by LRMS Extended List

Workorder H2H261AA
 Data File /20060418s2/yh2h26.d
 Analysis ID 90215
 Analysis Date 04/19/06 06:06
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100063
 Prep Date 04/10/06
 Prep Exp Date 04/20/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 1.00

Lot No H6D030241-013
 SDG No
 Date Received 04/02/06
 Date Sampled 03/30/06
 Lims Test Code XXS09YA01
 Method DXLPAH
 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	28		11				
	Naphthalene	16:01	16:01	0	10145		2724			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	30		12				
	Naphthalene-d8	15:57	15:57	0	57896		15649			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	30		12				
	2-Methylnaphthalene	18:03	18:03	0	1436		573			ABB	M
	1-Methylnaphthalene	18:23	18:23	0	794		311			ABB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene-d10	17:58	17:58	0	37695		14816			ABB	
	1-Methylnaphthalene-d10	18:17	18:17	0	34160		12571			ABV	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	50		20				
156					156.0000		156.0000				
	Noise	00:00	00:00	0	108		43				
	2,6-Dimethylnaphthalene	19:56	19:55	1	566		178			MBB	M
160					160.0000		160.0000				
	Noise	00:00	00:00	0	20		8				
	Acenaphthylene-d8	20:46	20:47	-1	57336		25351			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	21:16	21:16	0	41351		17742			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	28		11				
	Fluorene	22:52	22:52	0	205		83			MVV	
168					168.0000		168.0000				
	Noise	00:00	00:00	0	25		10				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	35225		15846			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	20		8				
172					172.0000		172.0000				
	Noise	00:00	00:00	0	18		7				
176					176.0000		176.0000				
	Noise	00:00	00:00	0	30		12				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	25		10				

Notes:

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



PAH's by LRMS Extended List

Workorder	H2H261AA	Prep Batch	6100063	Lot No	H6D030241-013
Data File	/20060418s2/yh2h26.d	Prep Date	04/10/06	SDG No	
Analysis ID	90215	Prep Exp Date	04/20/06	Date Received	04/02/06
Analysis Date	04/19/06 06:06	Matrix	AIR	Date Sampled	03/30/06
Anal Exp Date	05/20/06	Initial Wt/Vol	1 Sample	Lims Test Code	XXS09YA01
Instrument	H2A	Extract Vol	1 mL	Method	DXLPAH
Analyst	JMN	Diluton Factor	1.00	Code	YA1

View Small Peaks? False

View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
178					178.0000		178.0000				
	Phenanthrene	25:47	25:48	-1	876		397			MBB	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	13		5				
	Phenanthrene-d10	25:43	25:44	-1	61763		28735			ABV	
	Anthracene-d10	25:52	25:52	0	48155		20254			AVB	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	25		10				
202					202.0000		202.0000				
	Noise	00:00	00:00	0	13		5				
	Fluoranthene	29:24	29:24	0	556		261			MBB	M
	Pyrene	30:05	30:05	0	525		238			MBB	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene-d10	29:21	29:21	0	61531		27810			ABV	
	Pyrene-d10	30:02	30:02	0	90132		41142			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	20		8				
240					240.0000		240.0000				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)Anthracene-d12	33:36	33:36	0	44087		18723			ABV	
	Chrysene-d12	33:44	33:44	0	42945		16938			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	68		27				
	Benzo(b)fluoranthene	36:39	36:39	0	295		99			MVV	
	Benzo(k)fluoranthene	36:44	36:42	2	510		238			MBB	
264					264.0000		264.0000				
	Noise	00:00	00:00	0	40		16				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	43130		18685			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	48251		19954			AVV	
	Benzo(e)pyrene-d12	37:22	37:23	-1	52745		19000			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	34139		13116			AVV	
	Perylene-d12	37:46	37:46	0	41134		15812			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	78		31				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	18		7				
278					278.0000		278.0000				
	Noise	00:00	00:00	0	15		6				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	18		7				

Notes:

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



PAH's by LRMS Extended List

Workorder H2H261AA	Prep Batch 6100063	Lot No H6D030241-013
Data File /20060418s2/yh2h26.d	Prep Date 04/10/06	SDG No
Analysis ID 90215	Prep Exp Date 04/20/06	Date Received 04/02/06
Analysis Date 04/19/06 06:06	Matrix AIR	Date Sampled 03/30/06
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
288					288.0000		288.0000				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	38727		9978				ABV
	Benzo(ghi)Perylene-d12	42:06	42:06	0	28585		7739				ABB
292					292.0000		292.0000				
	Noise	00:00	00:00	0	13		5				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	20255		5608				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

Int/Calc: J y2004
QC 1 Rev UMIC 4/25/86

1369
1384

42:06
06:06:00

19-APR-06
Elapse: 42:06
Start : 06:06:00

Study : 6100063
Inlet :
Masses: 0 > 308
Label : 0, 3.0

19-APR-06

WO=h2h261aa Meth=YA1 Dil=1

Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i

Mode: EI +VE + LMR (LIN) UP LR NETCDF

Client: H6D030241-013

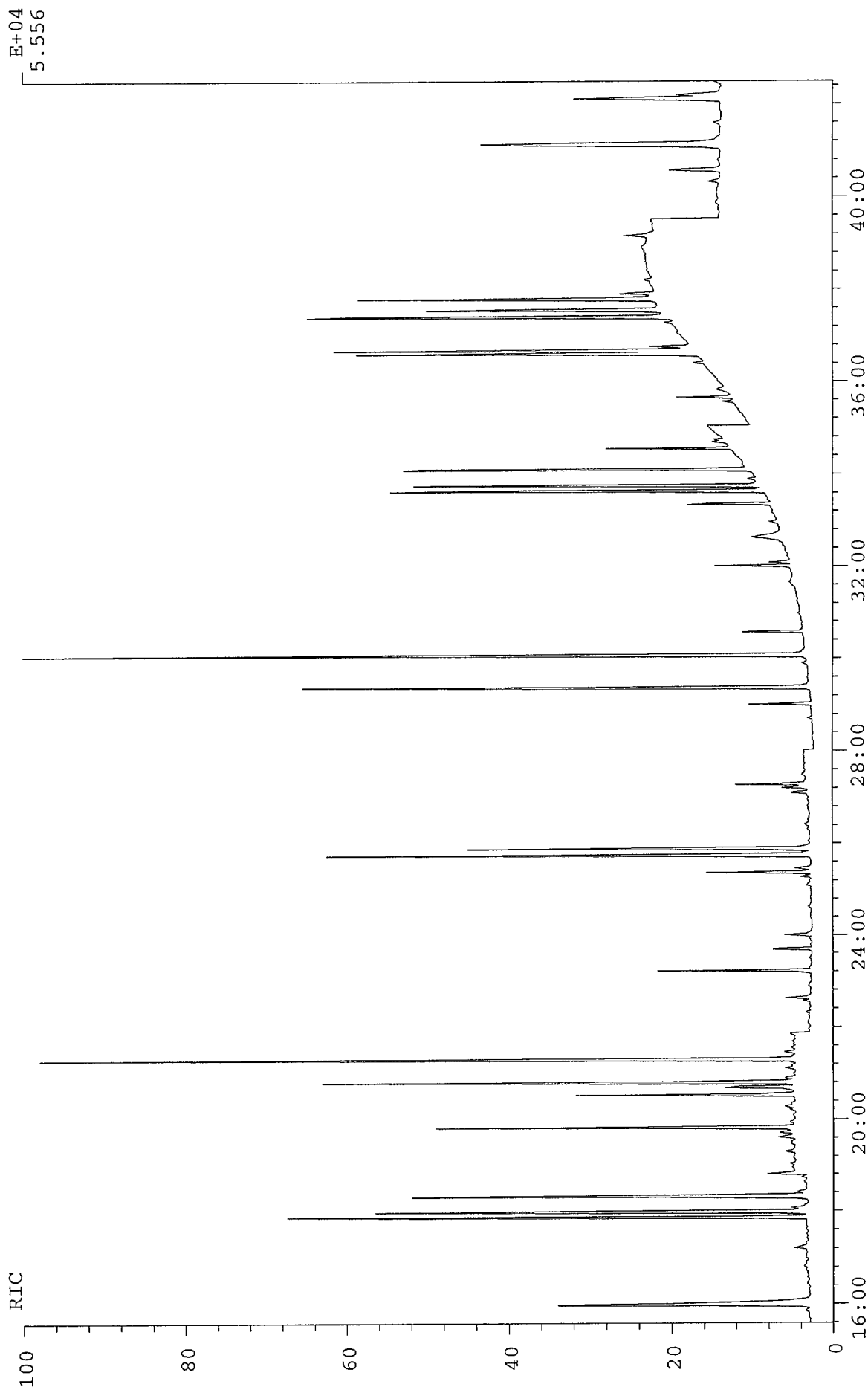
Label wdw: 1365 > 1373

Baseline : 100, 3

100.00 ppm

Area: 5, 0.50, 15

Disp: Height Area



CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1 1326
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i 1384
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wdw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

19-APR-06 Elapse: 40:59

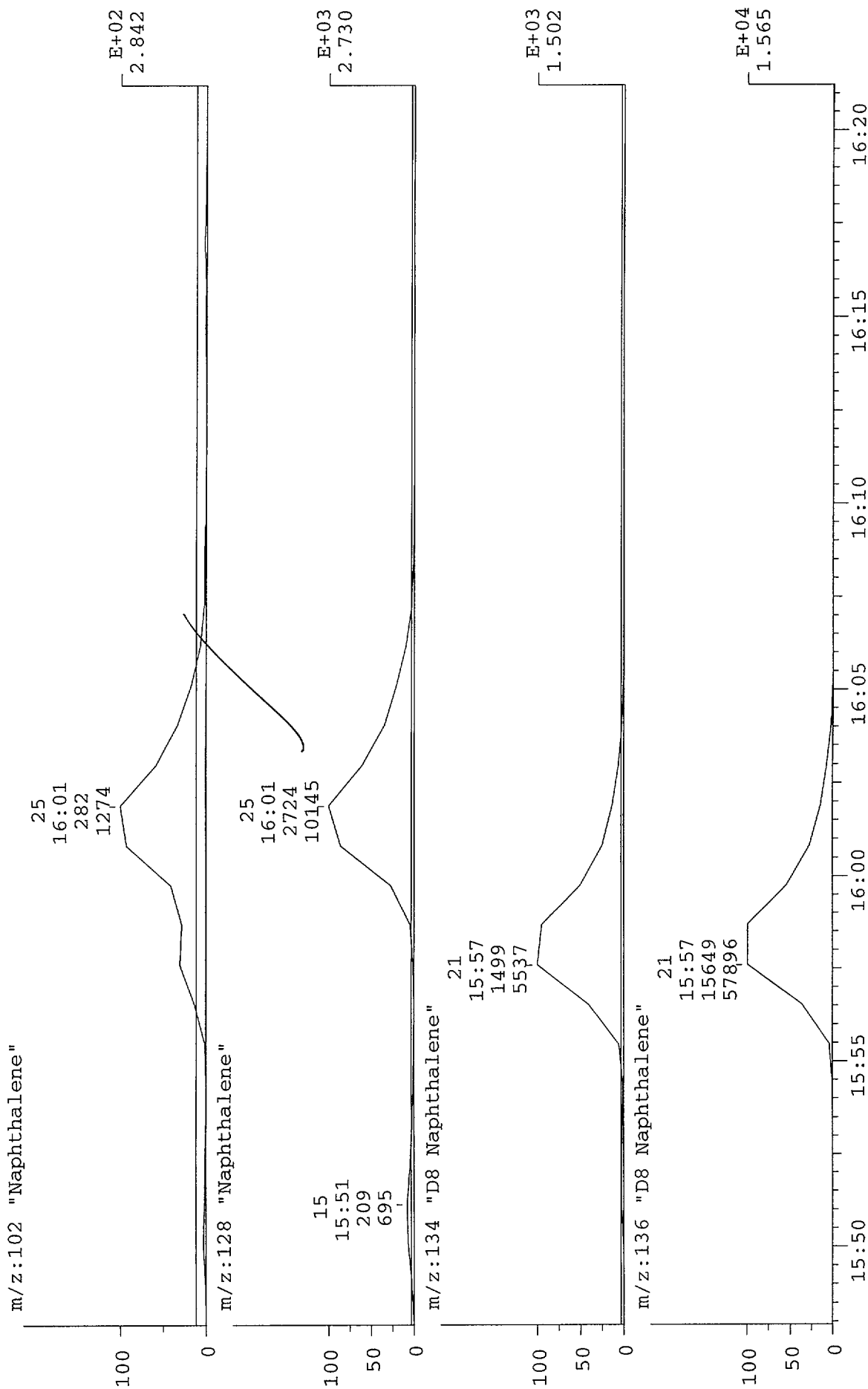
Start : 06:06:00

Study : 6100063

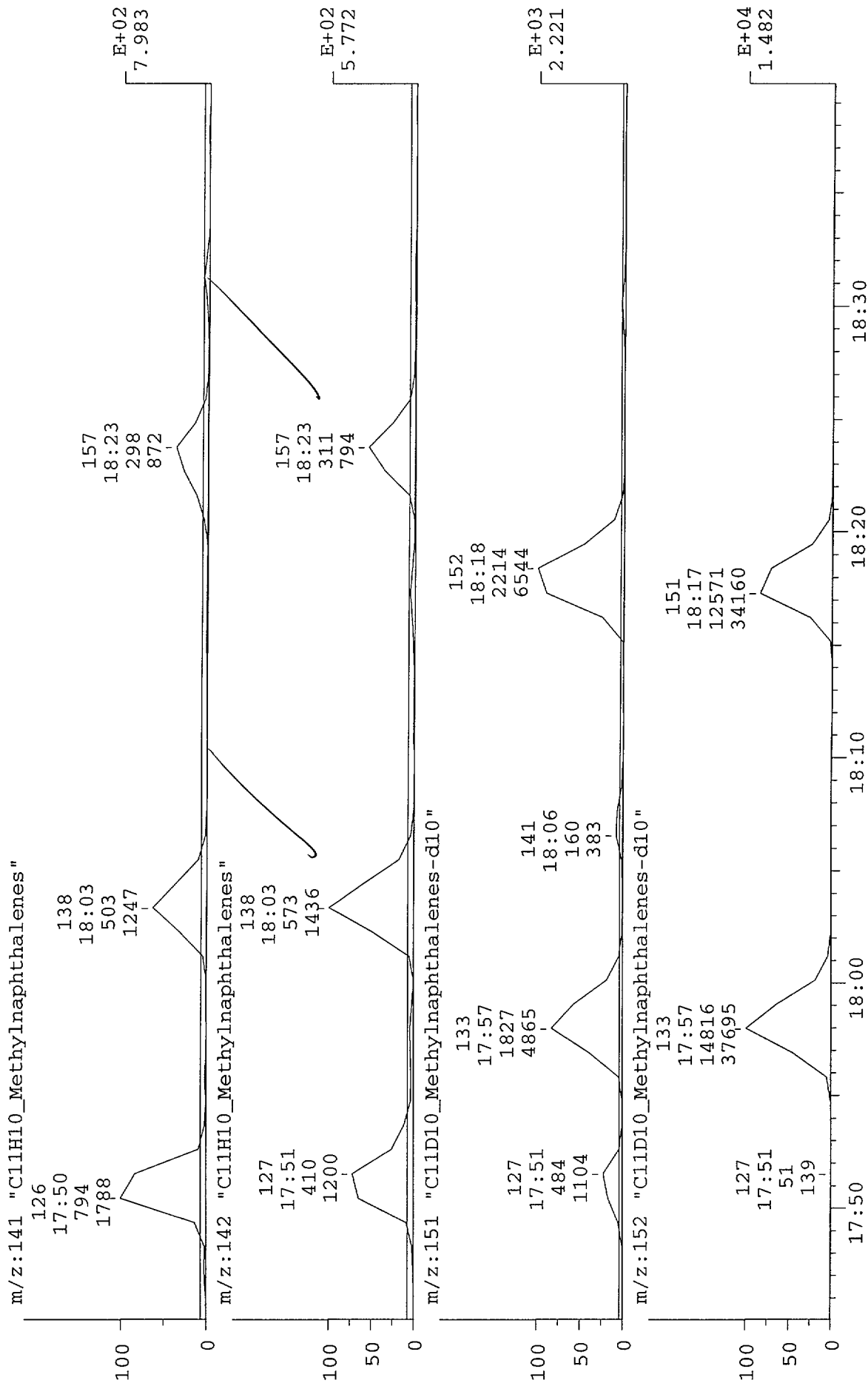
Inlet :

Masses: 0 > 308

Label : -2, 3.0

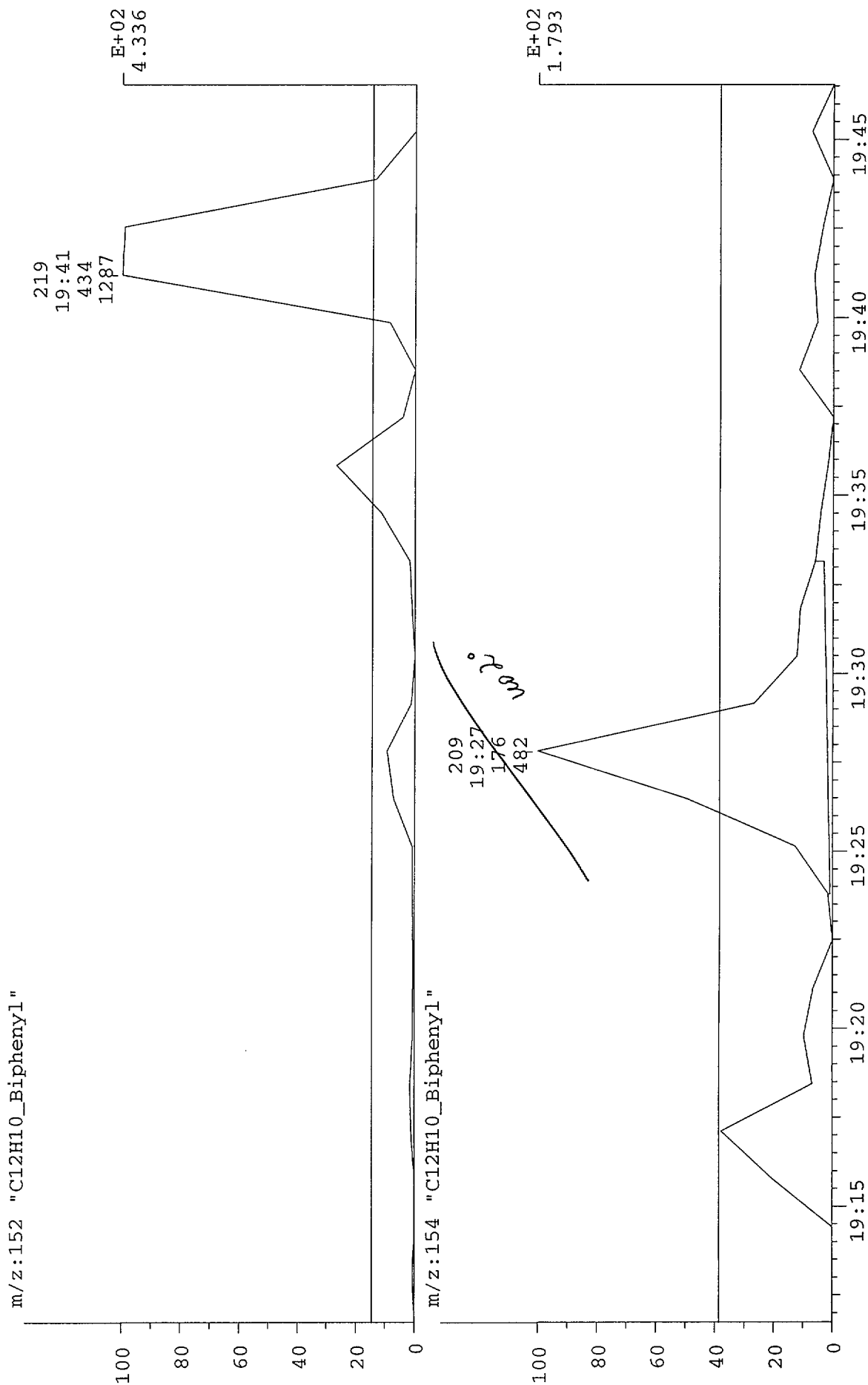


CHRO: yh2h26
 Samp: WO=h2h261aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-013
 Peak: 100.00 ppm Label wdw: 121 > 172
 Area: 5, 0.50, 15 Baseline: 100, 3
 Disp: Height Area
 19-APR-06 Elapse: 40:59 1326
 Start: 06:06:00 1384
 Study: 6100063
 Inlet:
 Masses: 0 > 308
 Label: -2, 3.0



CHRO: Yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wmdw: 197 > 223
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

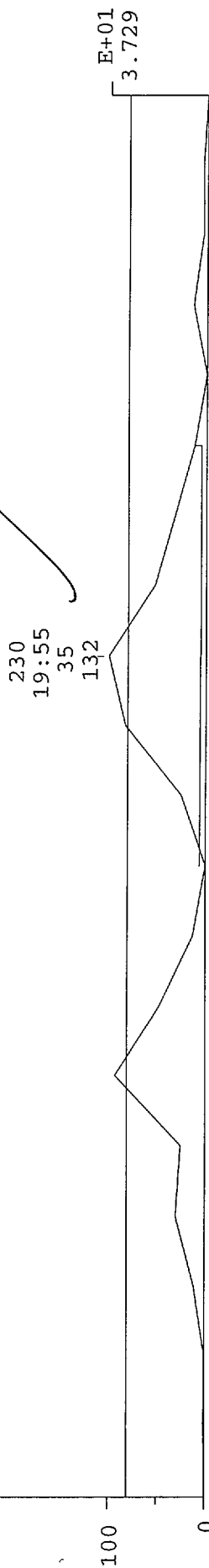


CHRO: Yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wdw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

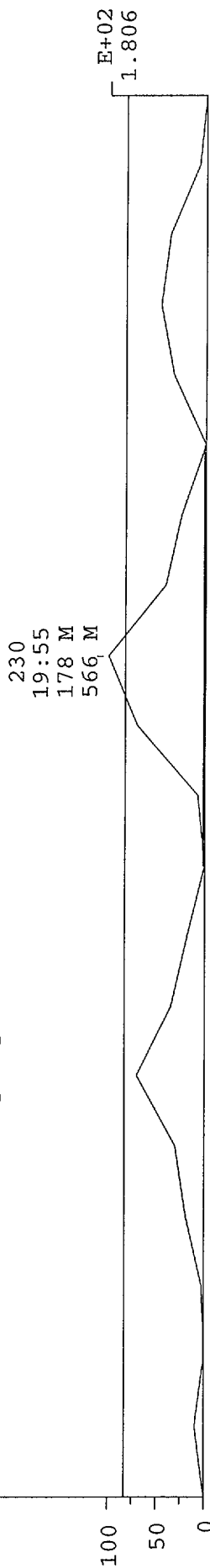
19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384

Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

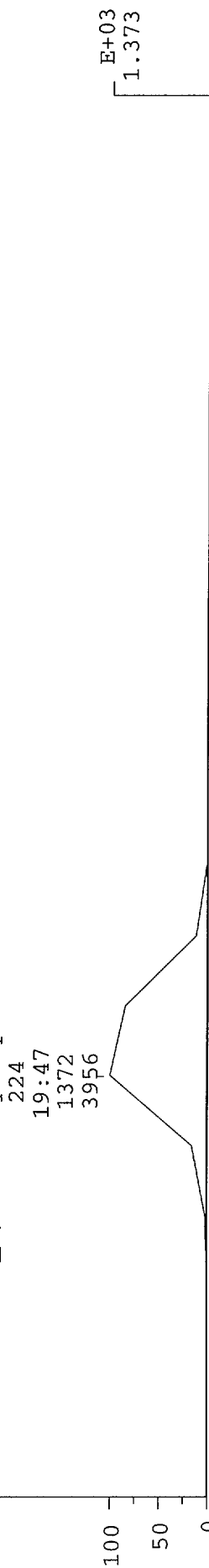
m/z:155 "C12H12_2,6-Dimethylnaphthalene"



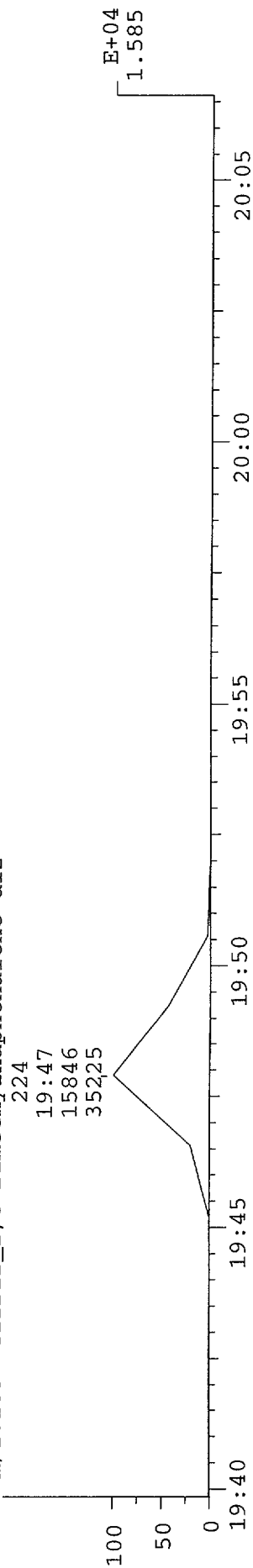
m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"

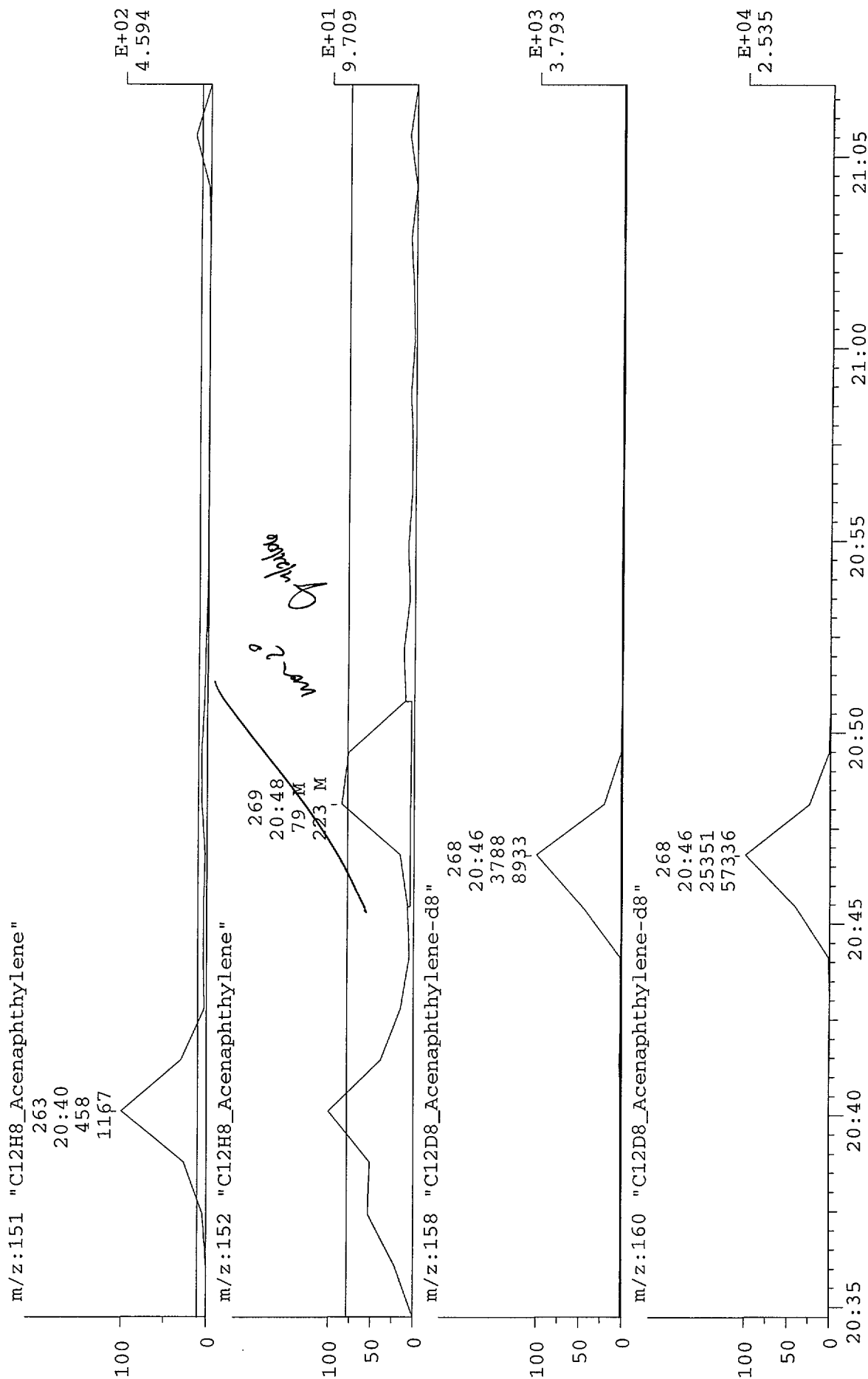


m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



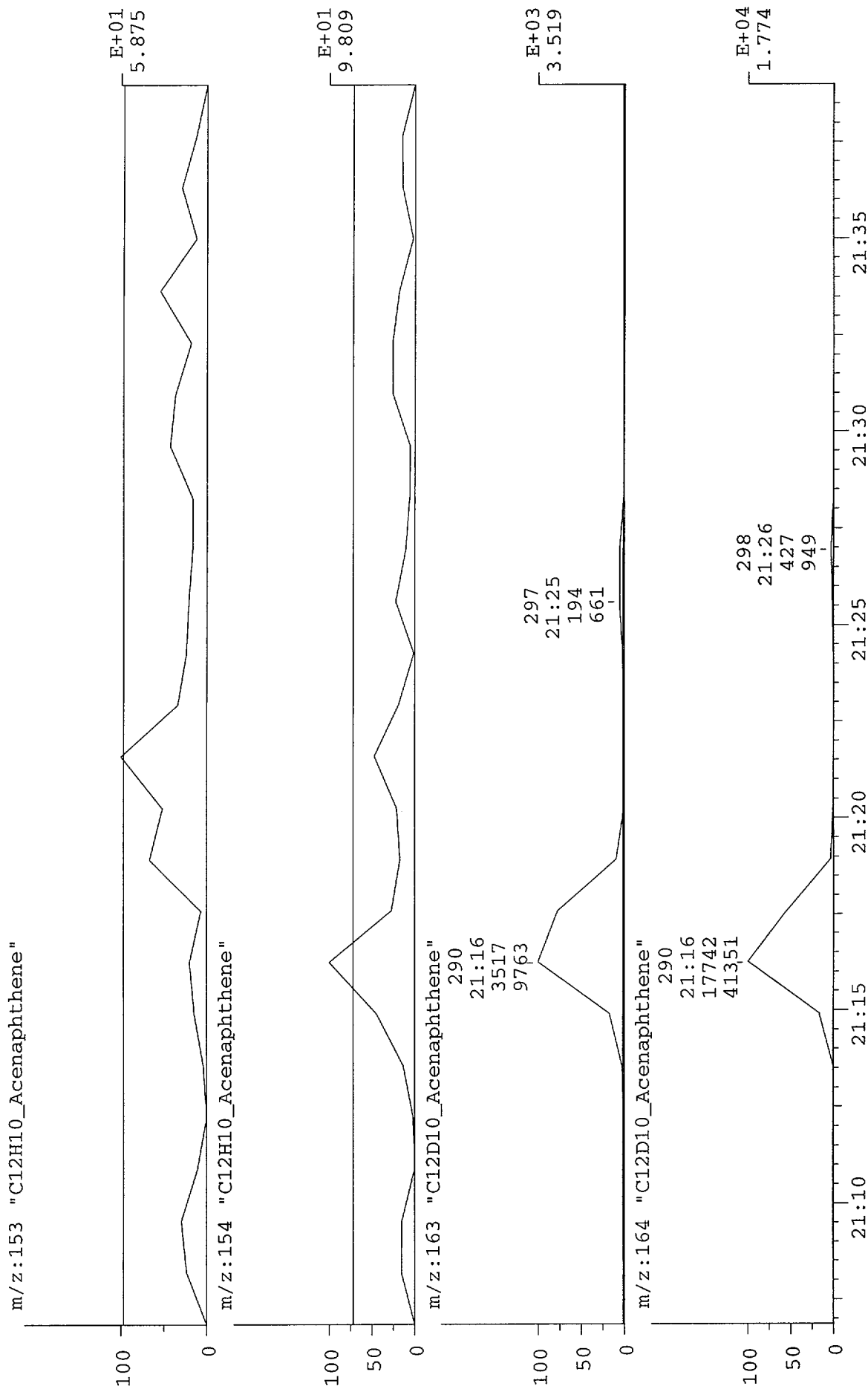
CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LJN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wdw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wmdw: 283 > 307
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0



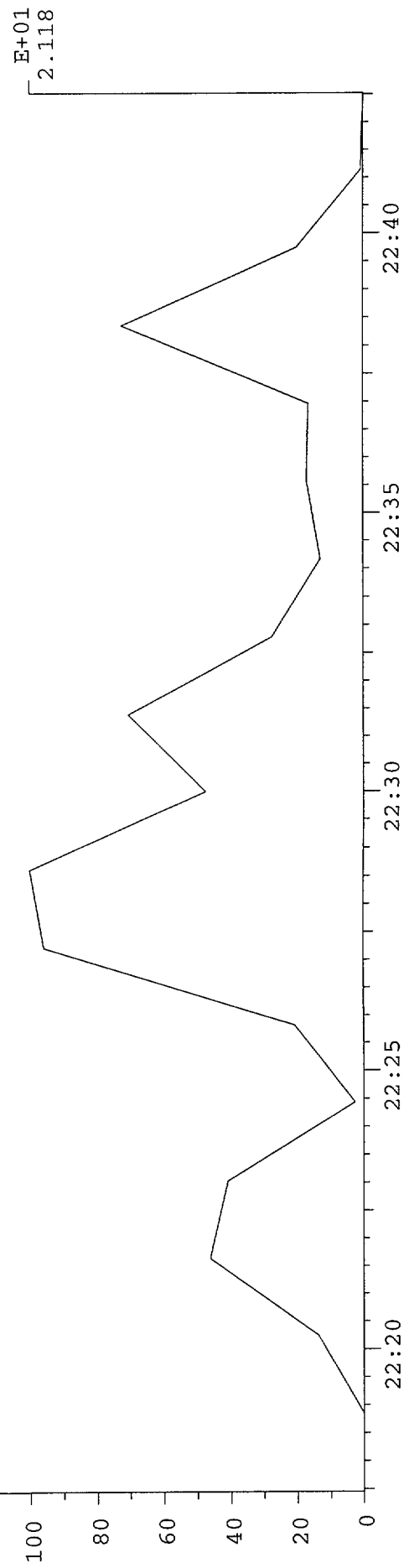
CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

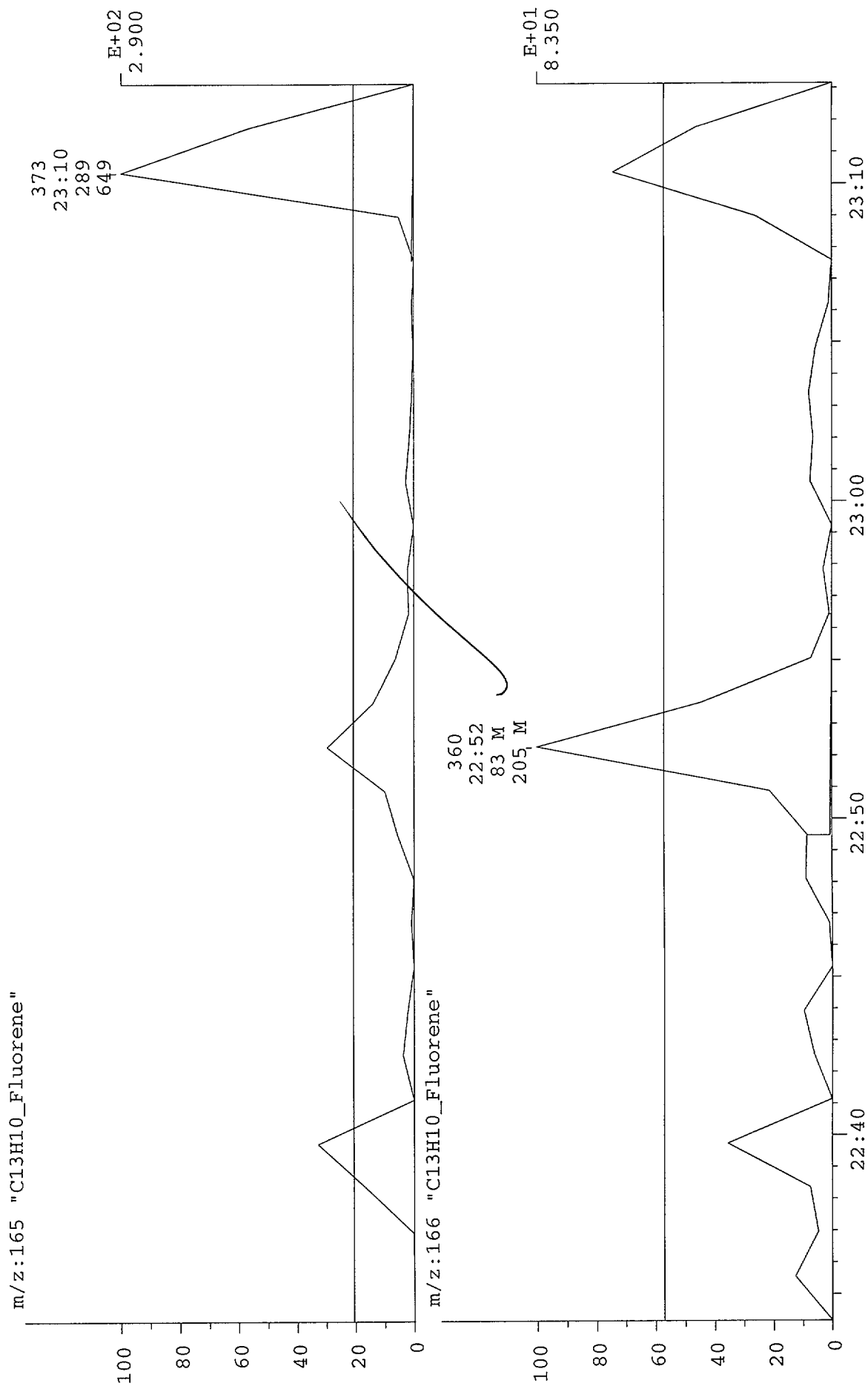
m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"



m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"



CHRO: yh2h26 19-APR-06 Elapse: 40:59 1326
Samp: W0=h2h261aa Meth=YA1 Dil=1 Start : 06:06:00 1384
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013 Study : 6100063
Peak: 100.00 ppm Label wndw: 347 > 375 Inlet :
Area: 5, 0.50, 15 Baseline : 100, 1 Masses: 0 > 308
Disp: Height Area Label : -2, 3.0



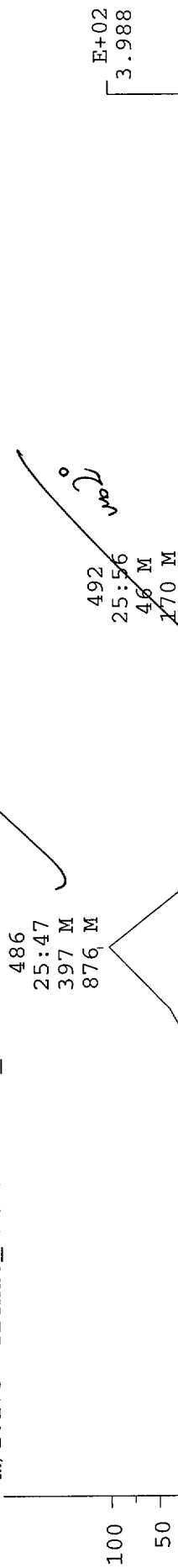
CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1 1326
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051 1384
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wdw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

19-APR-06 Elapse: 40:59
Start : 06:06:00
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

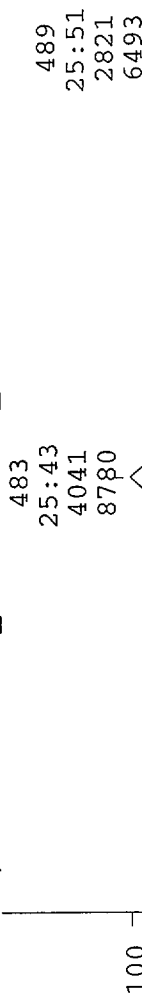
m/z:176 "C14H10_Phenanthrene_Anthracene"



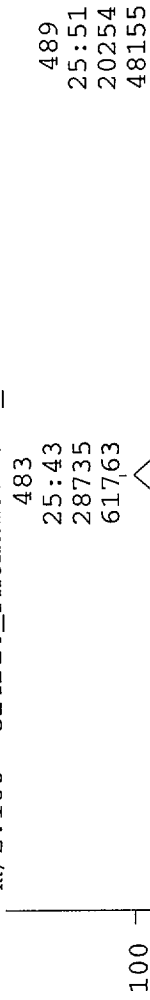
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



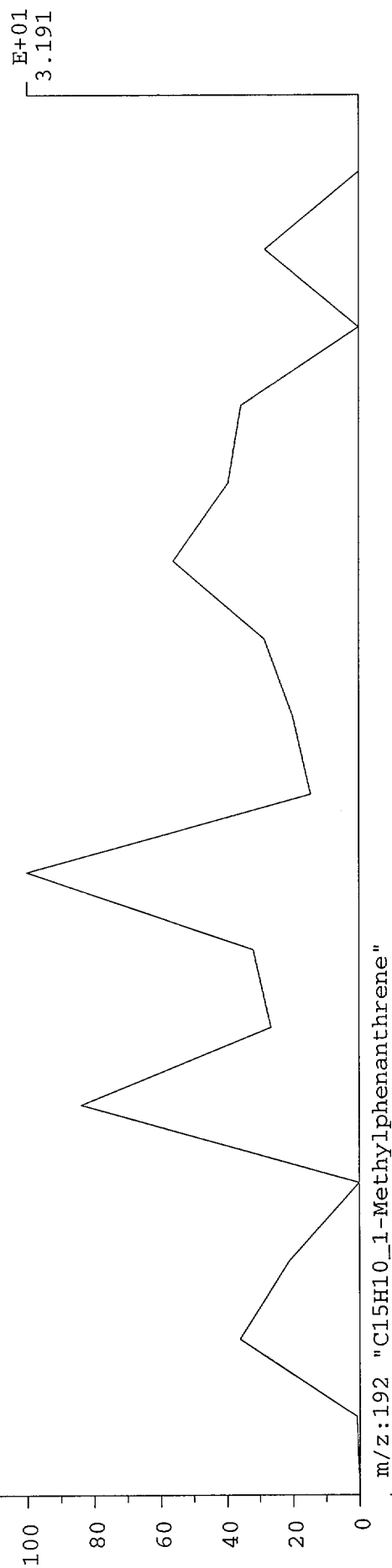
m/z:188 "C14D10_Phenanthrene_Anthracene-d10"



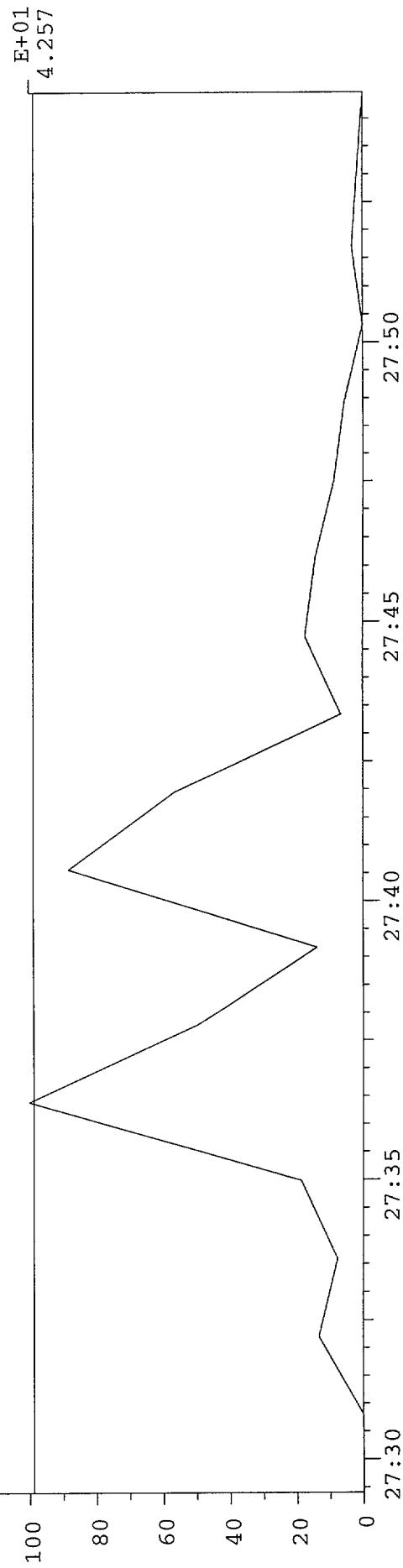
CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"

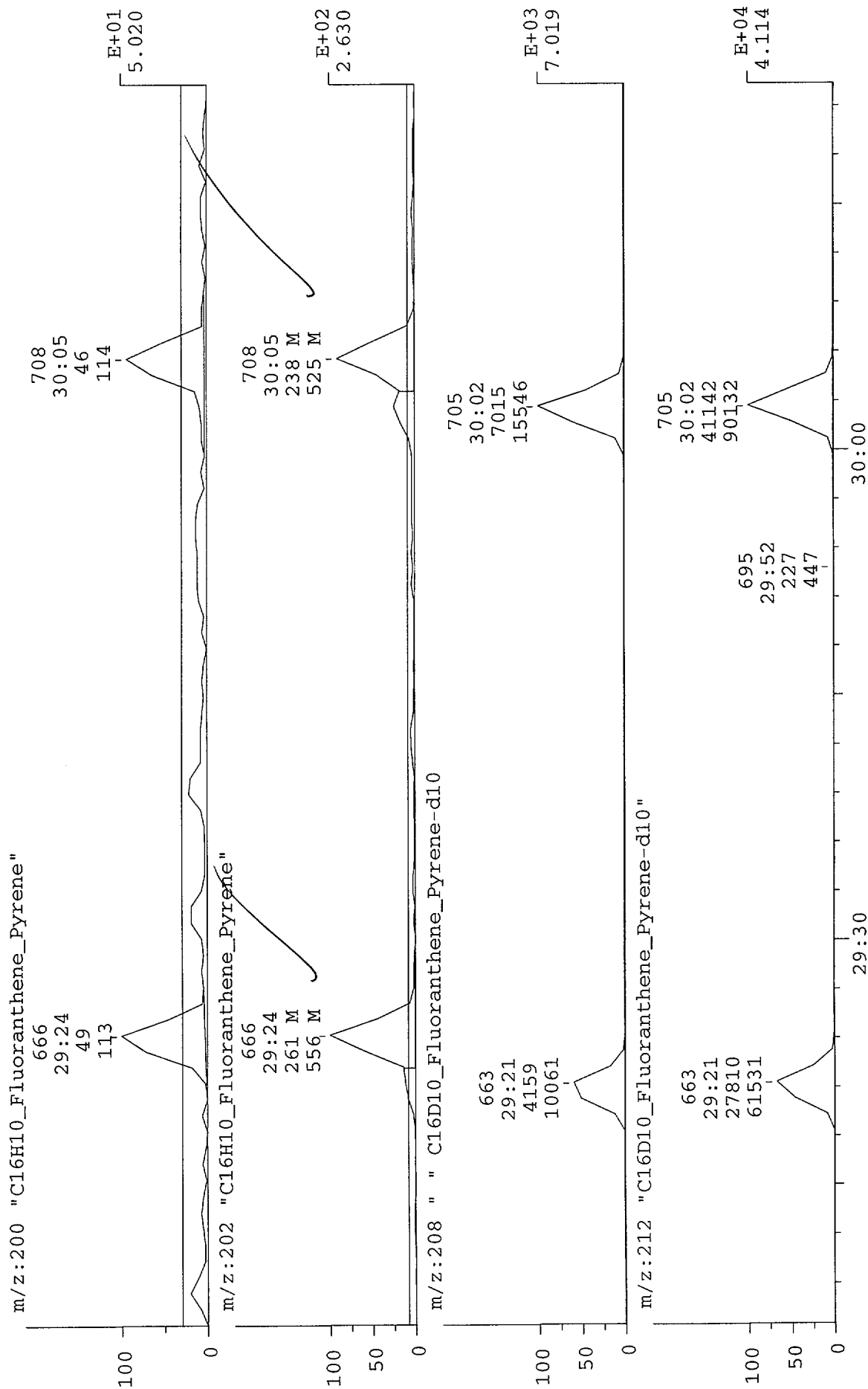


m/z:192 "C15H10_1-Methylphenanthrene"



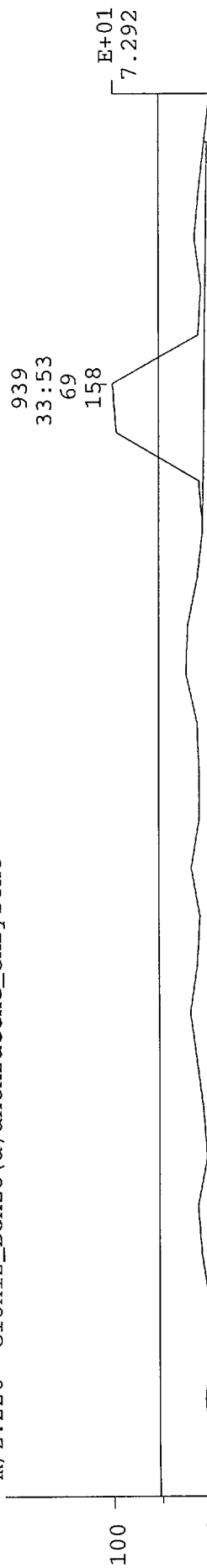
CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wndw: 648 > 725
Area: 5, 0.50, 15 Baseline: 100, 3
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

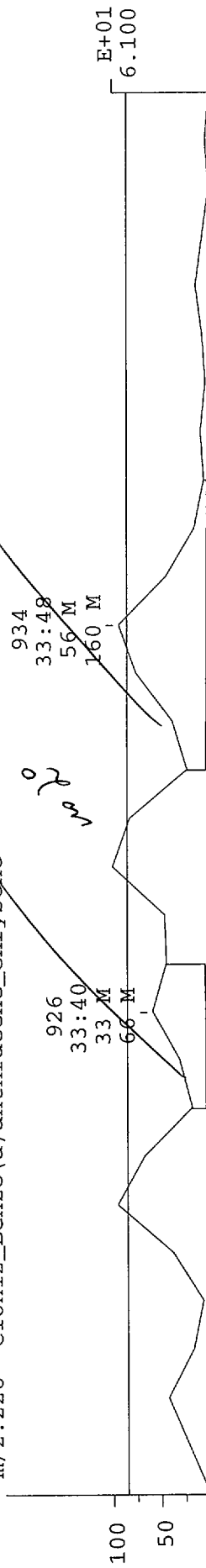


CHRO: yh2h26
 Samp: WO=h2h261aa Meth=YA1 Dil=1 1326
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i 1384
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-013 Study: 6100063
 Peak: 100.00 ppm Label wndw: 916 > 945 Inlet:
 Area: 5, 0.50, 15 Baseline: 100, 1 Masses: 0 > 308
 Disp: Height Area Label: -2, 3.0

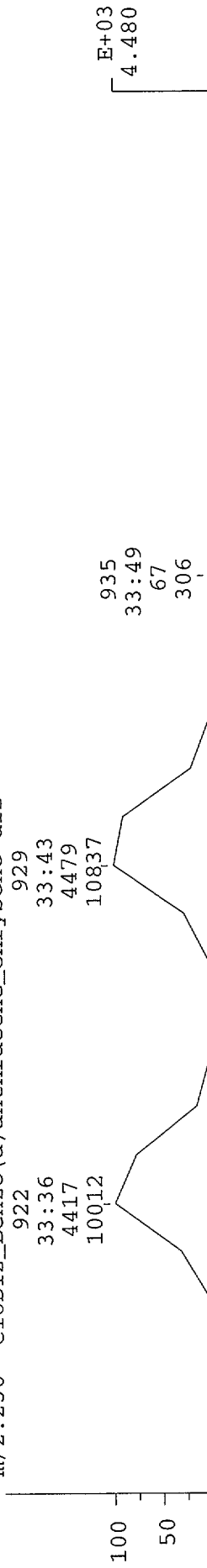
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



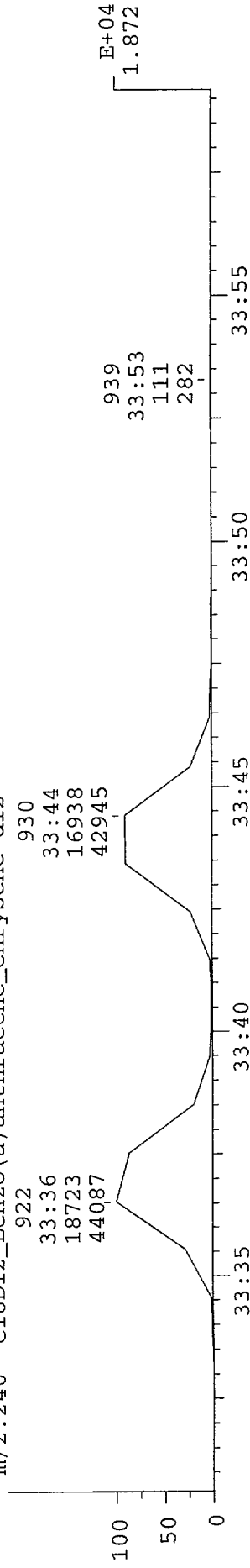
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



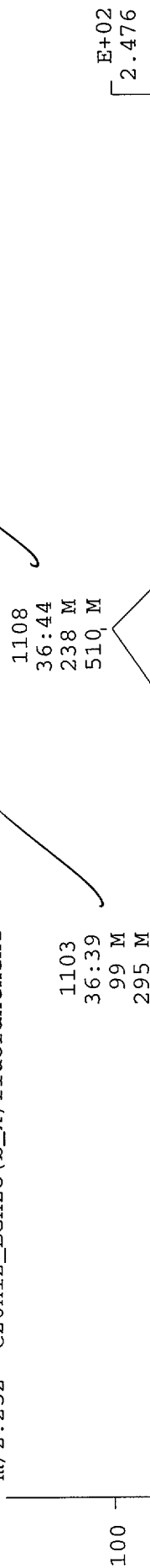
m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"



CHRO: yh2h26
Samp: W0=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wdw: 1095 > 1116
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:252 "C20H12_Benzo(b_k)fluoranthene"



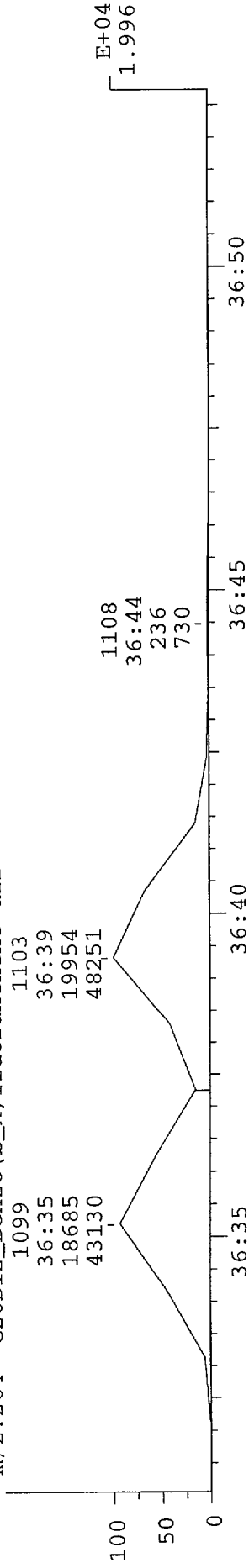
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



CHRO: yh2h26 19-APR-06 Elapse: 40:59 1326
 Samp: WO=h2h261aa Meth=YA1 Dil=1 1384
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-013 Study: 6100063
 Peak: 100.00 ppm Label wdw: 1135 > 1188 Inlet: 0 > 308
 Area: 5, 0.50, 15 Baseline: 100, 1 Masses: -2, 3.0
 Disp: Height Area

m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



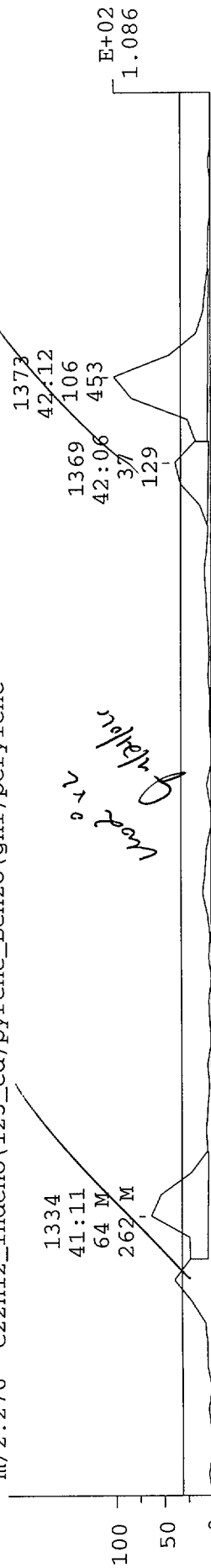
CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wdw: 1321 > 1387
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

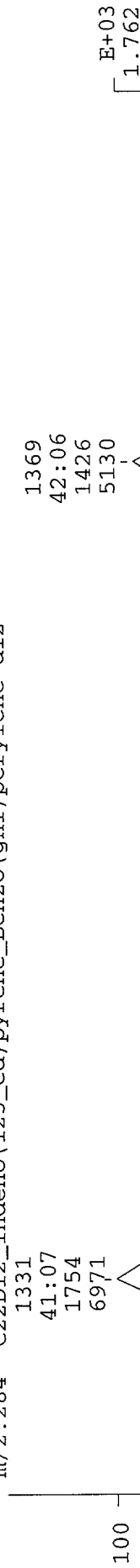
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



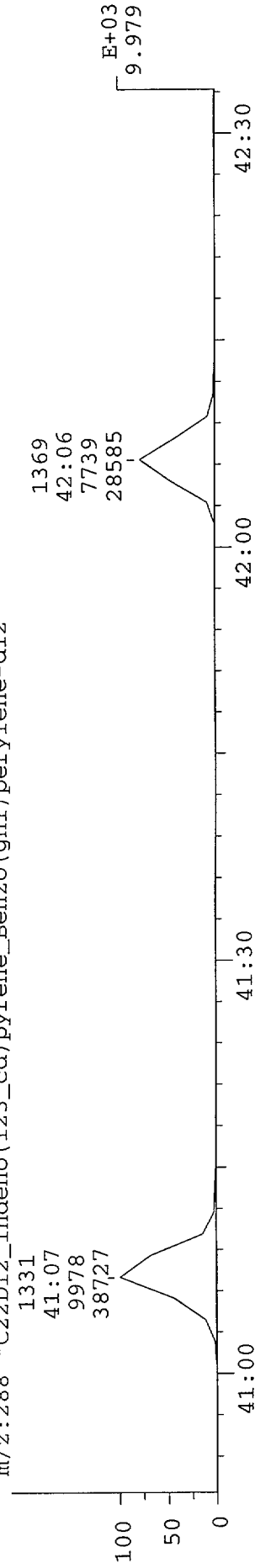
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



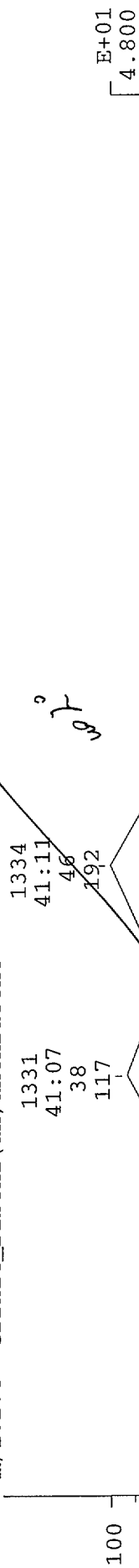
CHRO: yh2h26
Samp: WO=h2h261aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-013
Peak: 100.00 ppm Label wndw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

19-APR-06 Elapse: 40:59 1326
Start : 06:06:00 1384
Study : 6100063
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: YH2H26.D
 Date Acquired: 19 Apr 2006 6:06 am
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: H2H261AA
 Misc Info: Mth=DFTTP Single Step GC Injection;Vol=2.0...
 Vial Number: 14
 Sample Mult: 1
 Sample Amount: 0
 Exp. Barcode:
 Act. Barcode:

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

Beginning Export Process Wed Apr 19 14:10:28 2006
 d:\cdffiles\YH2H26.CDF Translated at Wed Apr 19 14:10:28 2006 Elapsed: 1 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 19 08:37:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h26.dat
 NetCDF File (input): /usr/users/hp/data/yh2h26.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 08:37:01 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 - ACS
Sample ID: A-5376 MEDIA CHECK XAD
Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 014	Work Order #....: H2H271AA	Matrix.....: AIR
Date Sampled....: 03/28/06	Date Received....: 04/02/06	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
Benzo(a)anthracene	ND	20	0.19	ng/sampl
Benzo(b)fluoranthene	33 B	20	0.48	ng/sampl
Benzo(k)fluoranthene	ND	20	0.62	ng/sampl
Benzo(a)pyrene	ND	20	0.76	ng/sampl
Chrysene	ND	20	0.20	ng/sampl
Dibenz(a,h)anthracene	ND	20	0.48	ng/sampl
Indeno(1,2,3-cd)pyrene	ND	20	0.64	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)anthracene-d12	100	30 - 120
Chrysene-d12	96	30 - 120
Benzo(b)fluoranthene-d12	107	30 - 120
Benzo(k)fluoranthene-d12	112	30 - 120
Benzo(a)pyrene-d12	102	30 - 120
Indeno(1,2,3-cd)pyrene-d12	126 *	30 - 120
Dibenz(ah)anthracene-d14	125 *	30 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

- * Surrogate recovery is outside stated control limits.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



IsoCalc

Workorder H2H271AA	Prep Batch 6100060	Lot No H6D030241-014
Data File /20060427s1/yh2h272.d	Prep Date 04/10/06	SDG No
Analysis ID 90371	Prep Exp Date 04/18/06	Date Received 04/02/06
Analysis Date 4/28/2006	Matrix AIR	Date Sampled 03/28/06
Analysis Time 00:12	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					500.0			ND	0.000000
Naphthalene				1.233				ND	0.000000
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene								ND	0.000000
2-Methylnaphthalene	18:23	450	161					ND	0.000000
2-Methylnaphthalene-d10					500.0			ND	0.000000
1-Methylnaphthalene				1.358				ND	0.000000
1-Methylnaphthalene-d10					500.0			ND	0.000000
1-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl				1.552				ND	0.000000
2,6-Dimethylnaphthalene				1.240				ND	0.000000
2,6-Dimethylnaphthalene-d1					500.0			ND	0.000000
C2 Alkylnaphthalenes		18194	4728					ND	0.000000
Acenaphthylene				1.221				ND	0.387
Acenaphthylene-d8	20:46	116604	47567	1.646	500.0	452.714102	90.54	452.714102	0.630
Acenaphthene-d10	21:16	78221	34944	1.000	500.0	500.000000	100.00	500.000000	1.40
Acenaphthene				0.740				ND	1.10
2,3,5-Trimethylnaphthalene				1.140				ND	0.000000
C3 Alkylnaphthalenes		3788	1312					ND	0.000000
Fluorene d-10				0.805	1000			ND	39.1
Fluorene-C13				0.752	1000			ND	27.2
Fluorene				0.892				ND	55.1
Phenanthrene-d10	25:52	2309	915	0.793	500.0	4.745232	0.95	4.745232	0.361
Phenanthrene				1.210				ND	45.2
Anthracene-d10					500.0			ND	0.000000
Anthracene				1.065				ND	51.3
1-Methylphenanthrene				0.871				ND	31.4
Fluoranthene-d10	29:20	238815	111352	0.761	500.0	510.978540	102.20	510.978540	0.188
Fluoranthene				1.298				ND	0.208
Pyrene-d10	30:01	306886	122223	1.000	500.0	500.000000	100.00	500.000000	0.143
Pyrene				1.319				ND	0.204
Terphenyl-d14				0.762	1000			ND	0.147
Benzo(a)Anthracene-d12	33:36	157771	71571	0.514	500.0	500.009789	100.00	500.009789	0.438
Benzo(a)anthracene				1.385				ND	0.189
Chrysene-d12	33:43	152810	71213	0.516	500.0	482.473325	96.49	482.473325	0.436
Chrysene				1.333				ND	0.197
Benzo(b)Fluoranthene-d12	36:34	142961	59578	0.895	500.0	535.420257	107.08	535.420257	0.829
Benzo(k)Fluoranthene-d12	36:39	172693	61011	1.030	500.0	561.634757	112.33	561.634757	0.720
Benzo(b)fluoranthene	36:37	13448	5903	1.446		32.537606		32.537606	0.479
Benzo(k)fluoranthene				1.093				ND	0.618
Benzo(e)pyrene-d12	37:22	149233	57308	1.000	500.0	500.000000	100.00	500.000000	0.742
Benzo(e)pyrene				1.495				ND	0.656
Benzo(a)Pyrene-d12	37:31	118601	42085	0.776	500.0	512.050630	102.41	512.050630	0.956
Benzo(a)pyrene				1.286				ND	0.762
Perylene-d12	37:45	146583	54201	0.936	500.0	524.571059	104.91	524.571059	0.792
Perylene				1.140				ND	0.668
3-Methylcholanthrene								ND	0.000000

gml 2006
4/28/06

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder H2H271AA	Prep Batch 6100060	Lot No H6D030241-014
Data File /20060427s1/yh2h272.d	Prep Date 04/10/06	SDG No
Analysis ID 90371	Prep Exp Date 04/18/06	Date Received 04/02/06
Analysis Date 4/28/2006	Matrix AIR	Date Sampled 03/28/06
Analysis Time 00:12	Initial Wt/Vol 1	Lims Test Code XXSIOYA01
Anal Exp Date 05/20/06	Extract Vol 1	Method DXLEPAH
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	75042	22452	0.402	500.0	625.914731	125.18	625.914731	1.14
Indeno(1,2,3-cd)pyrene-d12	41:07	144658	34059	0.772	500.0	627.731106	125.55	627.731106	0.339
Indeno(1,2,3-cd)pyrene				1.259				ND	0.641
Dibenz(a,h)anthracene				1.961				ND	0.483
Benzo(ghi)Perylene-d12					500.0			ND	0.000000
Benzo(ghi)perylene				1.639				ND	0.000000
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene								ND	0.000000



PAH's by LRMS Extended List

Workorder H2H271AA	Prep Batch 6100060	Lot No H6D030241-014
Data File /20060427s1/yh2h272.d	Prep Date 04/10/06	SDG No
Analysis ID 90371	Prep Exp Date 04/18/06	Date Received 04/02/06
Analysis Date 04/28/06 00:12	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	48		19				
	Unidentified	16:06	00:00	0	3152		506			ABB	
136					136.0000		136.0000				
	Noise	00:00	00:00	0	48		19				
	Unidentified	15:59	00:00	0	1719		419			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	40		16				
	Unidentified	17:32	00:00	0	572		152			ABV	
	Unidentified	17:37	00:00	0	427		136			AVB	
	Unidentified	17:51	00:00	0	4161		1437			ABB	
	2-Methylnaphthalene	18:23	18:21	2	450		161			ABB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	45		18				
	Unidentified	17:03	00:00	0	4128		1179			ABB	
	Unidentified	17:59	00:00	0	3976		1300			ABB	
	Unidentified	18:25	00:00	0	905		376			ABB	
	Unidentified	20:48	00:00	0	1261		164			AVV	
	Unidentified	21:17	00:00	0	3832		498			AVV	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	78		31				
	Unidentified	19:27	00:00	0	2443		305			AVV	
	Unidentified	20:41	00:00	0	5179		2563			AVV	
	Unidentified	21:16	00:00	0	1655		312			AVV	
156					156.0000		156.0000				
	Noise	00:00	00:00	0	118		47				
	Unidentified	20:46	00:00	0	18194		4728			AVB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	73		29				
	Acenaphthylene-d8	20:46	21:01	-15	116604		47567			AVV	
162					162.0000		162.0000				
	Noise	00:00	00:00	0	60		24				
	Unidentified	19:34	00:00	0	463		95			AVV	
	Unidentified	19:41	00:00	0	801		131			AVV	
	Unidentified	19:53	00:00	0	5232		798			AVV	
	Unidentified	20:16	00:00	0	7869		2657			AVV	
	Unidentified	20:41	00:00	0	6087		1417			AVB	
164					164.0000		164.0000				
	Noise	00:00	00:00	0	98		39				
	Acenaphthene-d10	21:16	21:30	-14	78221		34944			AVV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	90		36				
	Unidentified	23:25	00:00	0	2561		1090			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



PAH's by LRMS Extended List

Workorder H2H271AA	Prep Batch 6100060	Lot No H6D030241-014
Data File /20060427s1/yh2h272.d	Prep Date 04/10/06	SDG No
Analysis ID 90371	Prep Exp Date 04/18/06	Date Received 04/02/06
Analysis Date 04/28/06 00:12	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
168					168.0000		168.0000				
	Noise	00:00	00:00	0	50		20				
	Unidentified	19:47	00:00	0	40725		17661			AVV	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	50		20				
	Unidentified	18:53	00:00	0	1748		144			ABV	
	Unidentified	19:37	00:00	0	2407		983			AVV	
	Unidentified	19:47	00:00	0	6276		2338			AVV	
170					170.0000		170.0000				
	Noise	00:00	00:00	0	50		20				
	Unidentified	23:59	00:00	0	3788		1312			ABB	
172					172.0000		172.0000				
	Noise	00:00	00:00	0	38		15				
	Unidentified	22:48	00:00	0	1506		434			AVB	
176					176.0000		176.0000				
	Noise	00:00	00:00	0	58		23				
	Unidentified	23:59	00:00	0	6145		3189			ABV	
	Unidentified	24:52	00:00	0	1915		857			ABB	
	Unidentified	25:21	00:00	0	1728		657			ABB	
	Unidentified	26:25	00:00	0	34052		10334			ABV	
	Unidentified	27:04	00:00	0	3006		1612			ABB	
178					178.0000		178.0000				
	Noise	00:00	00:00	0	100		40				
	Unidentified	25:21	00:00	0	3604		1571			ABB	
	Unidentified	25:46	00:00	0	2532		833			ABB	
	Unidentified	26:33	00:00	0	8446		2924			ABB	
	Unidentified	27:04	00:00	0	2429		1195			ABB	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	70		28				
	Unidentified	25:03	00:00	0	978		481			ABB	
	Unidentified	25:43	00:00	0	233947		94270			ABV	
	Phenanthrene-d10	25:52	25:53	-1	2309		915			AVB	
	Unidentified	26:29	00:00	0	3612		915			AVB	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	50		20				
	Unidentified	27:15	00:00	0	14711		7343			AVV	
	Unidentified	27:36	00:00	0	1409		193			AVV	
202					202.0000		202.0000				
	Noise	00:00	00:00	0	60		24				
	Unidentified	29:23	00:00	0	1212		264			ABB	
	Unidentified	30:01	00:00	0	1468		218			AVV	
	Unidentified	30:25	00:00	0	706		85			AVB	
	Unidentified	31:04	00:00	0	954		127			ABB	
212					212.0000		212.0000				

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



PAH's by LRMS Extended List

Workorder H2H271AA	Prep Batch 6100060	Lot No H6D030241-014
Data File /20060427s1/yh2h272.d	Prep Date 04/10/06	SDG No
Analysis ID 90371	Prep Exp Date 04/18/06	Date Received 04/02/06
Analysis Date 04/28/06 00:12	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
212					212.0000		212.0000				
	Noise	00:00	00:00	0	35		14				
	Fluoranthene-d10	29:20	29:26	-6	238815		111352			ABV	
	Unidentified	29:51	00:00	0	1089		436			AVV	
	Pyrene-d10	30:01	30:07	-6	306886		122223			AVV	
	Unidentified	30:33	00:00	0	483		168			AVV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	38		15				
240					240.0000		240.0000				
	Noise	00:00	00:00	0	55		22				
	Benzo(a)Anthracene-d12	33:36	33:38	-2	157771		71571			ABV	M
	Chrysene-d12	33:43	33:45	-2	152810		71213			AVV	M
244					244.0000		244.0000				
	Noise	00:00	00:00	0	25		10				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	83		33				
	Benzo(b)fluoranthene	36:37	36:37	0	13448		5903			ABV	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	85		34				
	Benzo(b)Fluoranthene-d1	36:34	36:33	1	142961		59578			ABV	M
	Benzo(k)Fluoranthene-d1	36:39	36:37	2	172693		61011			AVV	M
	Benzo(e)pyrene-d12	37:22	37:20	2	149233		57308			AVV	M
	Benzo(a)Pyrene-d12	37:31	37:29	2	118601		42085			AVV	M
	Perylene-d12	37:45	37:43	2	146583		54201			AVV	M
268					268.0000		268.0000				
	Noise	00:00	00:00	0	55		22				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	55		22				
278					278.0000		278.0000				
	Noise	00:00	00:00	0	43		17				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	30		12				
	Indeno(1,2,3-cd)pyrene-	41:07	40:59	8	144658		34059			ABV	M
292					292.0000		292.0000				
	Noise	00:00	00:00	0	53		21				
	Dibenz(ah)Anthracene-d1	41:03	40:57	6	75042		22452			ABV	M
302					302.0000		302.0000				
	Noise	00:00	00:00	0	15		6				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	23		9				

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

28 VMK 4/28/06

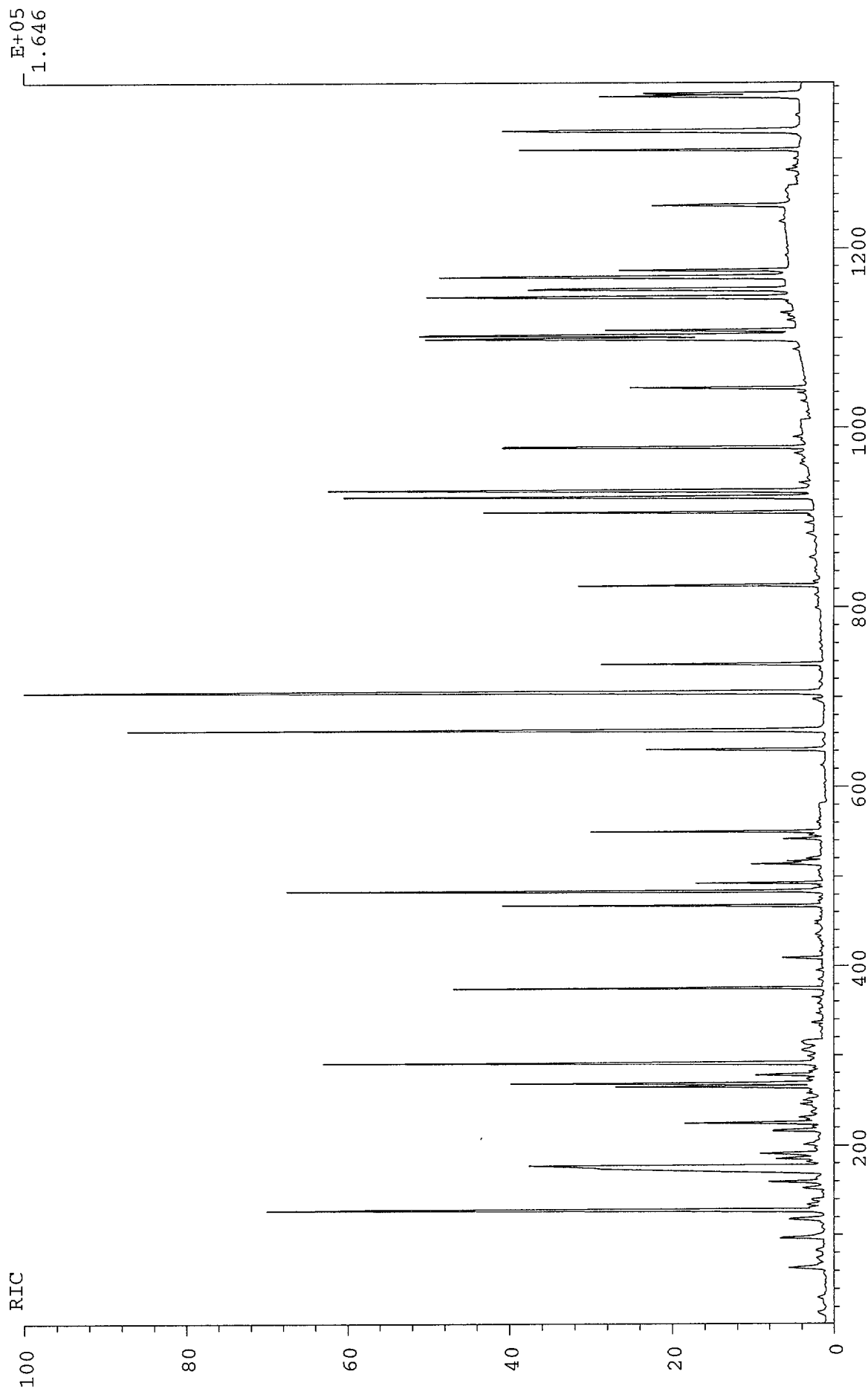
1325
1384

40:57
24:12:00
00:12
6100060
0 > 308
0, 0.0

Elapse:
Start :
Study :
Inlet :
Masses:
Label :

27-APR-06
Ccal=200604261
H6D030241-014
Label wndw: 1 > 1384
Baseline : 100, 3

CHRO: yh2h272
Samp: WO=h2h272aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-014
Peak: 100.00 ppm Label wndw: 1 > 1384
Area: 5, 0.50, 0 Baseline : 100, 3
Disp: Height Area

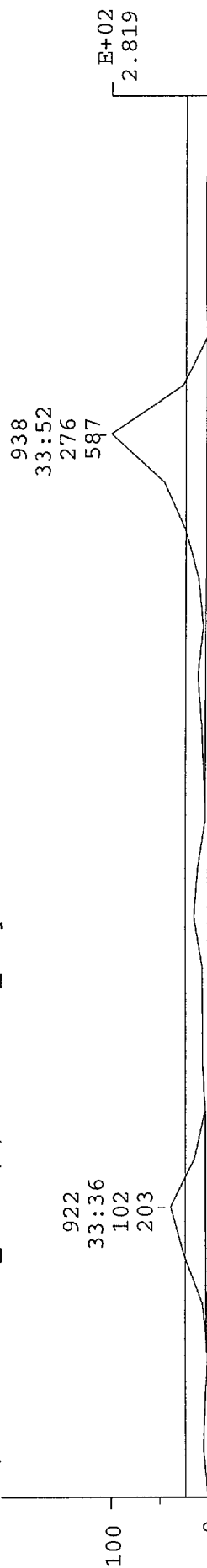


Int/Code: 4/28/06
QC 1 Rev VMK 4/28/06

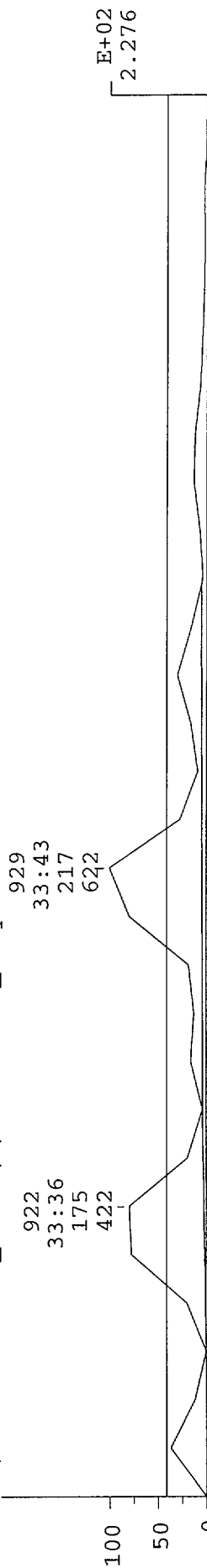
CHRO: yh2h272
Samp: WO=h2h271aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-014
Peak: 100.00 ppm Label wdw: 916 > 945
Area: 5, 0.50, 15 Baseline: 100, 1
Disp: Height Area

27-APR-06 Elapse: 41:02 1328
Start : 24:12:00 1384
Study : 6100060
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



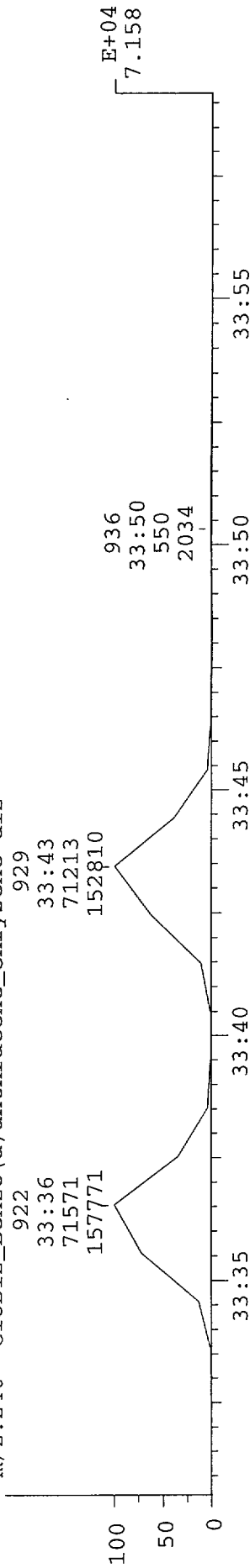
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"

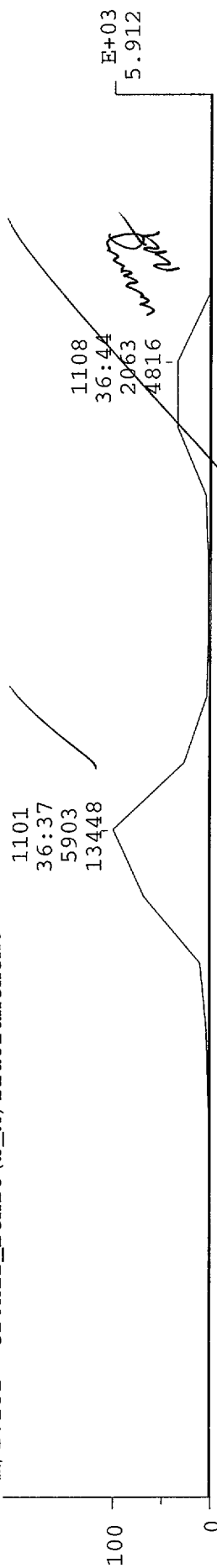


CHRO: yh2h272
 Samp: WO=h2h271aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-014
 Peak: 100.00 ppm Label wdw: 1091 > 1112
 Area: 5, 0.50, 15 Baseline: 100, 1
 Disp: Height Area

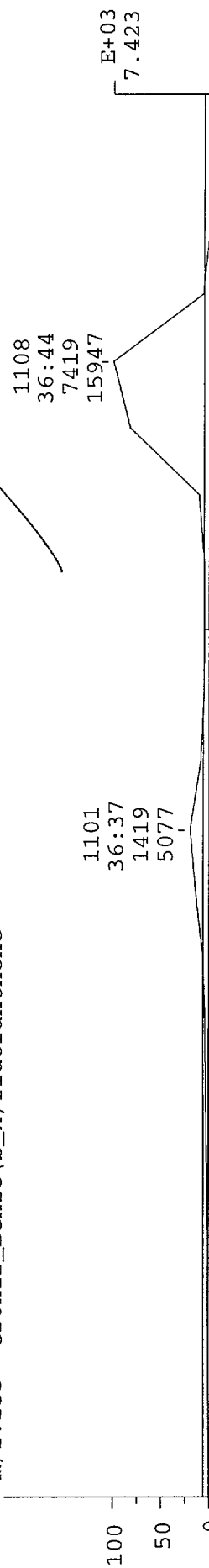
27-APR-06 Elapse: 41:02 1328
 Start: 24:12:00 1384

Study: 6100060
 Inlet: 0 > 308
 Masses: -2, 3.0

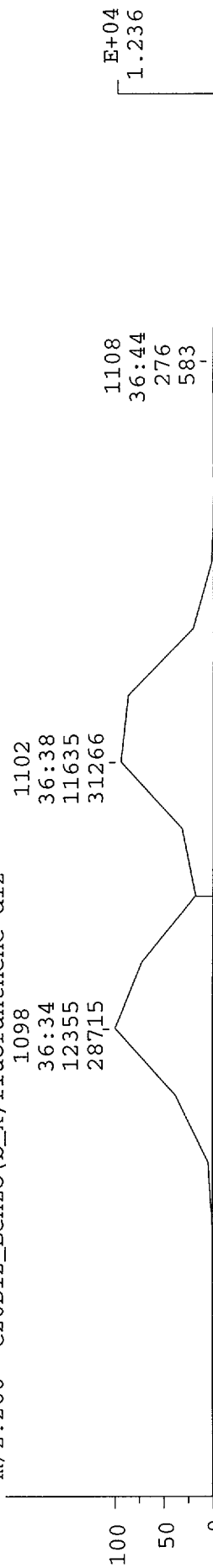
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



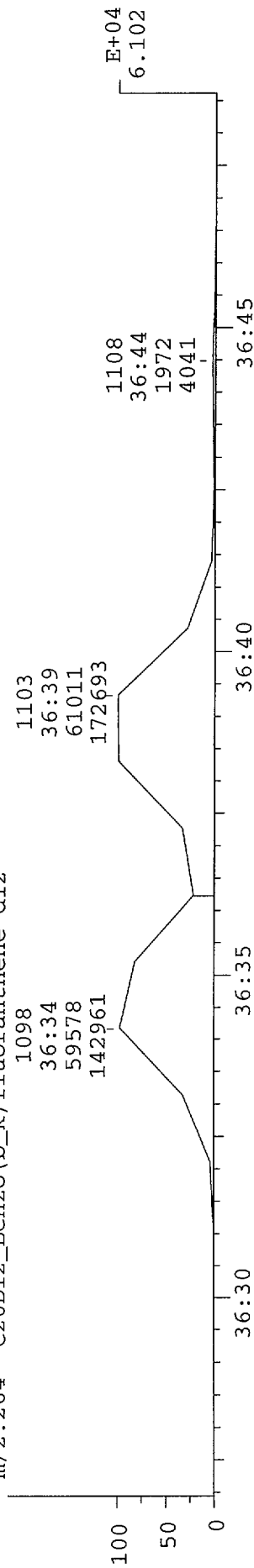
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"

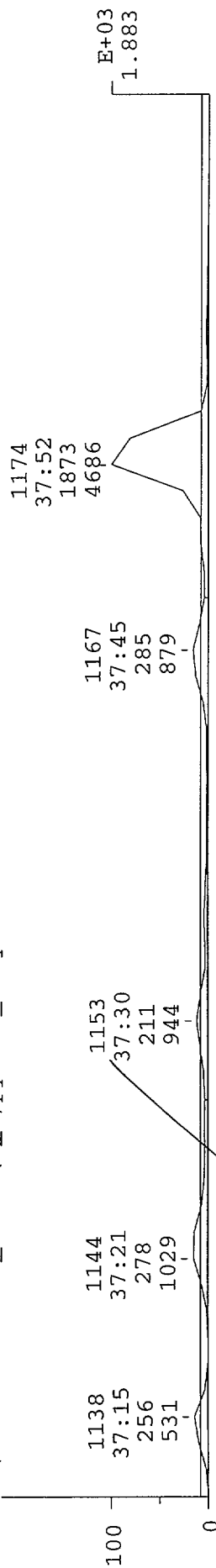


CHRO: yh2h272
 Samp: WO=h2h271aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-014
 Peak: 100.00 ppm Label wndw: 1135 > 1188
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

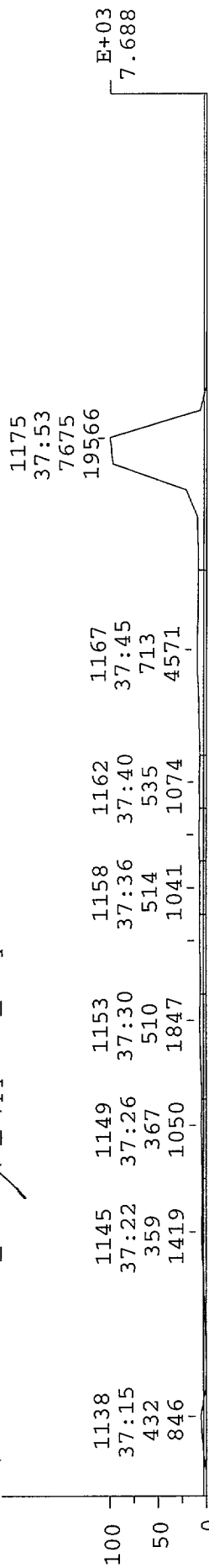
27-APR-06 Elapse: 41:02 1328
 Start : 24:12:00 1384

Study : 6100060
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

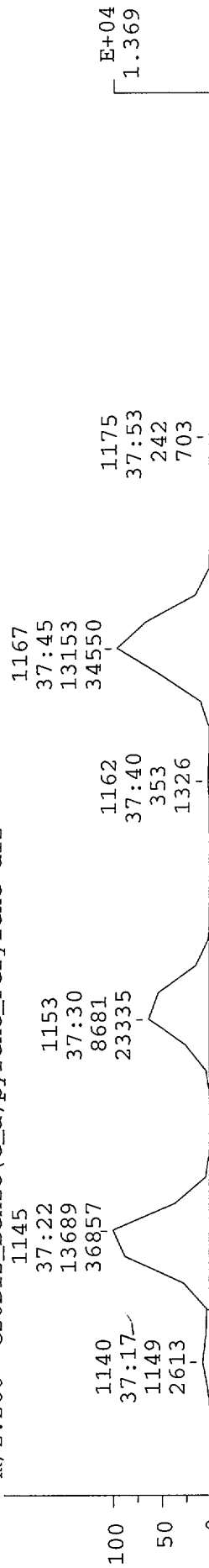
m/z:252 "C20H12_Benzo(e,a)pyrene_Perylene"



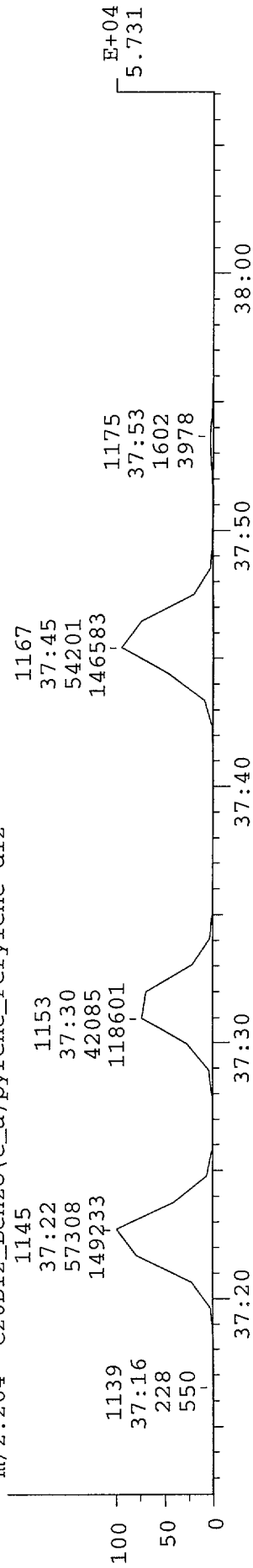
m/z:253 "C20H12_Benzo(e,a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e,a)pyrene_Perylene-d12"

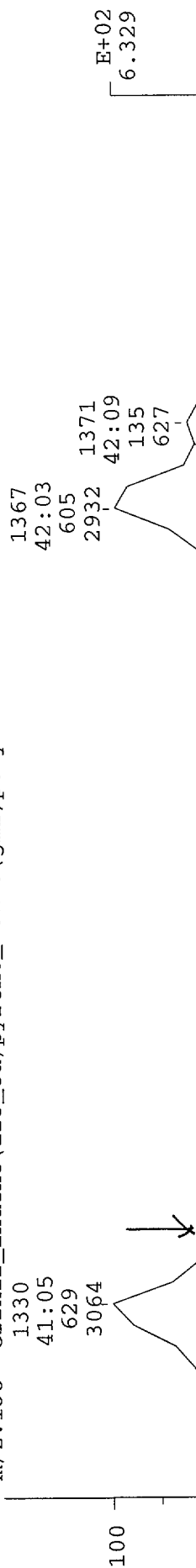


m/z:264 "C20D12_Benzo(e,a)pyrene_Perylene-d12"

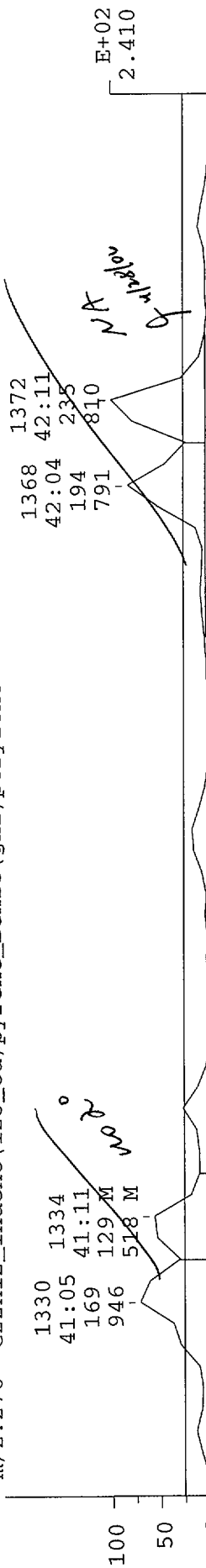


CHRO: yh2h272
 Samp: WO=h2h271aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-014
 Peak: 100.00 ppm Label wndw: 1321 > 1387
 Area: 5, 0.50, 15 Baseline: 100, 1
 Disp: Height Area
 27-APR-06 Elapse: 37:48 1170
 Start: 24:12:00 1384
 Study: 6100060
 Inlet:
 Masses: 0 > 308
 Label: -2, 3.0

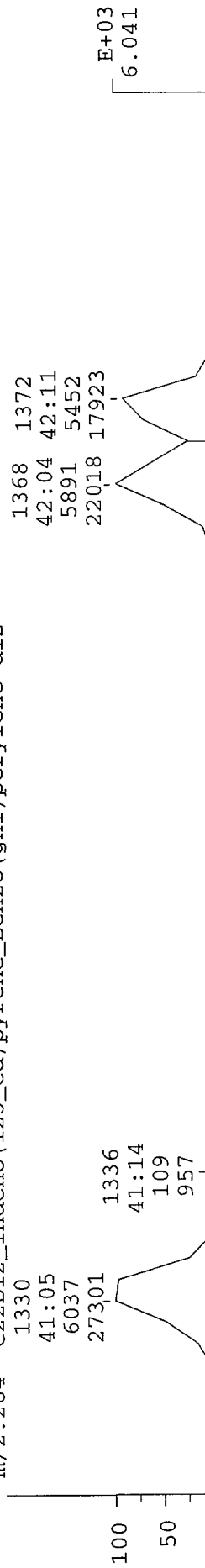
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



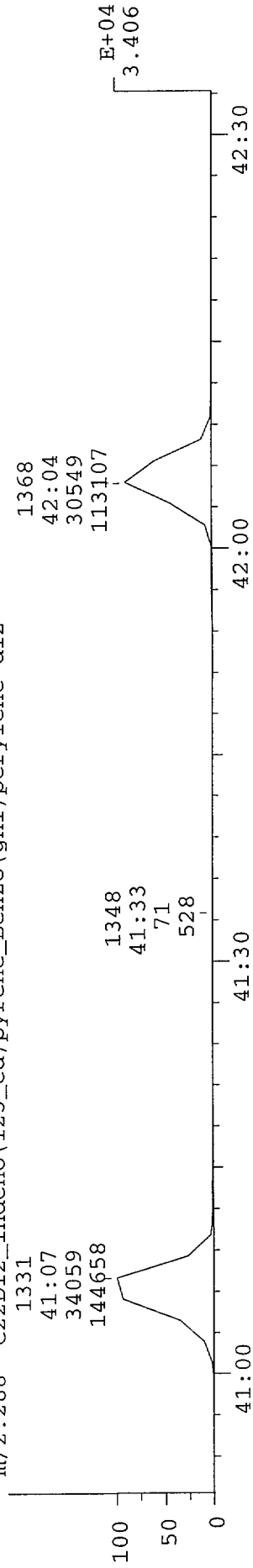
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



CHRO: yh2h272 27-APR-06 Elapse: 41:00 1327
 Samp: WO=h2h271aa Meth=YA1 Dil=1 1384
 Comm: Inst=h2a/695821 Batch=20060427s1 Ccal=20060426i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-014 Study: 6100060
 Peak: 100.00 ppm Label wndw: 1321 > 1341 Inlet: 0 > 308
 Area: 5, 0.50, 15 Baseline: 100, 1 Masses: -2, 3.0
 Disp: Height Area Label :

m/z:139 "C22H14_Dibenz(ah)anthracene"

1330
 41:05
 497
 2561

E+02
 5.032

m/z:278 "C22H14_Dibenz(ah)anthracene"

1330
 41:05
 128
 851

1333
 41:10
 119
 347

E+02
 1.328

m/z:288 "C22D14_Dibenz(ah)anthracene-d14"

1331
 41:07
 34031
 143477

E+04
 3.403

m/z:292 "C22D14_Dibenz(ah)anthracene-d14"

1329
 41:03
 22452
 75042

E+04
 2.245

40:55 41:00 41:05 41:10 41:15 41:20

File: YH2H272.D
Date Acquired: 28 Apr 2006 12:12 am
Operator:
Instrument: MY
Method File: SIM60ML.M
Sample Name: H2H271AA
Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
Vial Number: 24
Sample Mult: 1
Sample Amount: 0
Exp. Barcode:
Act. Barcode:

Beginning Export Process Fri Apr 28 01:21:15 2006
d:\cdf\files\YH2H272.CDF Translated at Fri Apr 28 01:21:15 2006 Elapsed: 0 sec
ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
- Started Conversion: Thu Apr 27 19:47:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h272.dat
NetCDF File (input): /usr/users/hp/data/yh2h272.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 19:47:03 EDT 2006

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

STL Knoxville - ACS
Sample ID: A-5378 MEDIA CHECK FILTER
Trace Level Organic Compounds

Lot - Sample #....: H6D030241 - 015	Work Order #....: H2H281AA	Matrix....: AIR
Date Sampled....: 03/28/06	Date Received....: 04/02/06	Dilution Factor: 1
Prep Date....: 04/10/06	Analysis Date....: 04/18/06	
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
Benzo(a)anthracene	0.98	B J	20	0.21	ng/sampl
Benzo(b)fluoranthene	3.2	B J	20	0.80	ng/sampl
Benzo(k)fluoranthene	2.5	B J	20	1.1	ng/sampl
Benzo(a)pyrene	ND		20	1.4	ng/sampl
Chrysene	1.1	B J	20	0.21	ng/sampl
Dibenz(a,h)anthracene	ND		20	0.34	ng/sampl
Indeno(1,2,3-cd)pyrene	3.1	B J	20	0.50	ng/sampl

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
Benzo(a)anthracene-d12	107	30 - 120
Chrysene-d12	104	30 - 120
Benzo(b)fluoranthene-d12	110	30 - 120
Benzo(k)fluoranthene-d12	107	30 - 120
Benzo(a)pyrene-d12	99	30 - 120
Indeno(1,2,3-cd)pyrene-d12	99	30 - 120
Dibenz(ah)anthracene-d14	98	30 - 120

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder H2H281AA
 Data File /20060418s2/yh2h28.d
 Analysis ID 90192
 Analysis Date 4/18/2006
 Analysis Time 23:27
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100051
 Prep Date 04/10/06
 Prep Exp Date 04/18/06
 Matrix AIR
 Initial Wt/Vol 1
 Extract Vol 1
 Dil Factor 1.0

Lot No H6D030241-015
 SDG No
 Date Received 04/02/06
 Date Sampled 03/28/06
 Lims Test Code XXSINYA01
 Method DXLPAH
 Code YAL

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample)	DL (ng/samp)
Naphthalene-d8	15:58	129202	39903	1.748	500.0	502.767873	100.55	502.767873	0.188
Naphthalene	16:01	4965	1334	1.211		15.868991		15.868991 BJ ✓	0.285
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene								ND	0.000000
2-Methylnaphthalene	18:03	1456	583	1.269		6.790732		6.790732 BJ ✓	0.352
2-Methylnaphthalene-d10	17:58	84507	33612	1.104	500.0	520.748441	104.15	520.748441	0.224
1-Methylnaphthalene	18:23	675	271	1.365		3.333407		3.333407 BJ ✓	0.417
1-Methylnaphthalene-d10	18:17	74189	26329	0.958	500.0	526.565622	105.31	526.565622	0.258
1-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene								ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl				1.533				ND	0.412
2,6-Dimethylnaphthalene	19:56	574	186	1.249		2.982561		2.982561 J B	0.896
2,6-Dimethylnaphthalene-d1	19:47	77019	34621	0.977	500.0	536.386091	107.28	536.386091	0.379
C2 Alkyl naphthalenes				1.249		2.982561		2.982561 J	0.777
Acenaphthylene				1.244				ND	0.114
Acenaphthylene-d8	20:46	117062	52969	1.548	500.0	514.342832	102.87	514.342832	0.160
Acenaphthene-d10	21:16	73502	30361	1.000	500.0	500.000000	100.00	500.000000	0.247
Acenaphthene	21:21	169	67	0.762		0.946910		0.946910 BJ ✓	0.526
2,3,5-Trimethylnaphthalene	22:28	102	39	1.127		0.587520		0.587520 J	0.160
C3 Alkyl naphthalenes				1.127		0.587520		0.587520 J	0.139
Fluorene d-10								ND	0.000000
Fluorene-C13								ND	0.000000
Fluorene	22:52	195	72	0.915		0.810764		0.810764 BJ ✓	0.181
Phenanthrene-d10	25:43	131426	60484	0.753	500.0	536.164304	107.23	536.164304	0.0915
Phenanthrene	25:47	448	204	1.216		1.401226		1.401226 BJ ✓	0.170
Anthracene-d10								ND	0.000000
Anthracene				1.059				ND	0.195
1-Methylphenanthrene	27:40	251	107	0.870		1.097228		1.097228 J B	0.214
Fluoranthene-d10	29:21	130887	60149	0.727	500.0	553.560104	110.71	553.560104	0.214
Fluoranthene	29:24	562	240	1.334		1.609651		1.609651 BJ ✓	0.358
Pyrene-d10	30:02	162716	72511	1.000	500.0	500.000000	100.00	500.000000	0.155
Pyrene	30:05	2821	1118	1.369		7.872879		7.872879 BJ ✓	0.349
Terphenyl-d14								ND	0.000000
Benzo(a) Anthracene-d12	33:37	90381	37472	0.521	500.0	533.077430	106.62	533.077430	0.232
Benzo(a) anthracene	33:40	257	106	1.454		0.978040		0.978040 BJ ✓	0.207
Chrysene-d12	33:44	93876	39695	0.557	500.0	518.146438	103.63	518.146438	0.217
Chrysene	33:48	272	114	1.363		1.062917		1.062917 BJ ✓	0.208
Benzo(b) Fluoranthene-d12	36:35	87553	38374	0.847	500.0	551.451845	110.29	551.451845	0.772
Benzo(k) Fluoranthene-d12	36:39	100299	38599	1.002	500.0	533.828316	106.77	533.828316	0.653
Benzo(b) fluoranthene	36:39	841	337	1.508		3.185717		3.185717 BJ ✓	0.799
Benzo(k) fluoranthene	36:42	565	221	1.136		2.478315		2.478315 BJ ✓	1.05
Benzo(e) pyrene-d12	37:23	93712	34395	1.000	500.0	500.000000	100.00	500.000000	0.654
Benzo(e) pyrene				1.589				ND	1.18
Benzo(a) Pyrene-d12	37:32	68351	24592	0.737	500.0	494.885826	98.98	494.885826	0.888
Benzo(a) pyrene				1.333				ND	1.41
Perylene-d12	37:46	84247	31748	0.887	500.0	507.037423	101.41	507.037423	0.738
Perylene	37:50	522	173	1.178		2.630613		2.630613 BJ ✓	1.24
3-Methylcholanthrene								ND	0.000000

Handwritten signature
uncalibrated

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder H2H281AA
 Data File /20060418s2/yh2h28.d
 Analysis ID 90192
 Analysis Date 4/18/2006
 Analysis Time 23:27
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100051
 Prep Date 04/10/06
 Prep Exp Date 04/18/06
 Matrix AIR
 Initial Wt/Vol 1
 Extract Vol 1
 Dil Factor 1.0

Lot No H6D030241-015
 SDG No
 Date Received 04/02/06
 Date Sampled 03/28/06
 Lims Test Code XXSINYA01
 Method DXLPAH
 Code YA1

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/sample)	DL (ng/samp)
Dibenz (ah) Anthracene-d14	41:05	37204	10759	0.405	500.0	490.621876	98.12	490.621876	0.719
Indeno(1,2,3-cd)pyrene-d12	41:07	72197	17397	0.779	500.0	494.469552	98.89	494.469552	0.280
Indeno(1,2,3-cd)pyrene	41:13	581	113	1.297		3.102817		3.102817 BJ	0.499
Dibenz (a,h) anthracene				2.059				ND	0.339
Benzo(ghi)Perylene-d12	42:06	52699	14118	0.559	500.0	502.747993	100.55	502.747993	0.390
Benzo(ghi)perylene				1.698				ND	0.469
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene								ND	0.000000

PAH's by LRMS Extended List

Workorder H2H281AA
 Data File /20060418s2/yh2h28.d
 Analysis ID 90192
 Analysis Date 04/18/06 23:27 ✓
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100051
 Prep Date 04/10/06
 Prep Exp Date 04/18/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 1.00

Lot No H6D030241-015
 SDG No
 Date Received 04/02/06
 Date Sampled 03/28/06
 Lims Test Code XXSINYA01
 Method DXLPAH
 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	28		11				
	Naphthalene	16:01	16:01	0	4965 ✓		1334			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	20		8				
	Naphthalene-d8	15:58	15:57	1	129202 ✓		39903			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	30		12				
	2-Methylnaphthalene	18:03	18:03	0	1456 ✓		583			ABB	M
	1-Methylnaphthalene	18:23	18:23	0	675 ✓		271			ABB	M
152					152.0000		152.0000				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:58	17:58	0	84507 ✓		33612			ABV	
	1-Methylnaphthalene-d10	18:17	18:17	0	74189 ✓		26329			AVV	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	43		17				
	Acenaphthene	21:21	21:22	-1	169 ✓		67			MVV	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	78		31				
	2,6-Dimethylnaphthalene	19:56	19:55	1	574 ✓		186			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	15		6				
	Acenaphthylene-d8	20:46	20:47	-1	117062 ✓		52969			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	15		6				
	Acenaphthene-d10	21:16	21:16	0	73502 ✓		30361			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	20		8				
	Fluorene	22:52	22:52	0	195 ✓		72			MVV	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	23		9				
	2,6-Dimethylnaphthalene	19:47	19:48	-1	77019 ✓		34621			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	25		10				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	13		5				
	2,3,5-Trimethylnaphthal	22:28	22:29	-1	102 ✓		39			MBB	M
172					172.0000		172.0000				
	Noise	00:00	00:00	0	10		4				
176					176.0000		176.0000				
	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

PAH's by LRMS Extended List

Workorder H2H281AA
 Data File /20060418s2/yh2h28.d
 Analysis ID 90192
 Analysis Date 04/18/06 23:27
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100051
 Prep Date 04/10/06
 Prep Exp Date 04/18/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Dilution Factor 1.00

Lot No H6D030241-015
 SDG No
 Date Received 04/02/06
 Date Sampled 03/28/06
 Lims Test Code XXSINYA01
 Method DXLPAH
 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	25		10				
	Phenanthrene	25:47	25:48	-1	448	✓	204			MBB	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene-d10	25:43	25:44	-1	131426	✓	60484			ABV	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	23		9				
	1-Methylphenanthrene	27:40	27:41	-1	251	✓	107			AVB	
202					202.0000		202.0000				
	Noise	00:00	00:00	0	58		23				
	Fluoranthene	29:24	29:24	0	562	✓	240			MBB	M
	Pyrene	30:05	30:05	0	2821	✓	1118			MBV	M
212					212.0000		212.0000				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene-d10	29:21	29:21	0	130887	✓	60149			ABV	
	Pyrene-d10	30:02	30:02	0	162716	✓	72511			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)anthracene	33:40	33:40	0	257	✓	106			MVV	M
	Chrysene	33:48	33:48	0	272	✓	114			MVV	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)Anthracene-d12	33:37	33:36	1	90381	✓	37472			ABV	
	Chrysene-d12	33:44	33:44	0	93876	✓	39695			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	8		3				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	93		37				
	Benzo(b)fluoranthene	36:39	36:39	0	841	✓	337			MBV	M
	Benzo(k)fluoranthene	36:42	36:42	0	565	✓	221			AVB	M
	Perylene	37:50	37:50	0	522	✓	173			MBB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	45		18				
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	87553	✓	38374			ABV	
	Benzo(k)Fluoranthene-d1	36:39	36:39	0	100299	✓	38599			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	93712	✓	34395			ABV	
	Benzo(a)Pyrene-d12	37:32	37:32	0	68351	✓	24592			AVV	
	Perylene-d12	37:46	37:46	0	84247	✓	31748			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	53		21				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	23		9				

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

PAH's by LRMS Extended List

Workorder H2H281AA
 Data File /20060418s2/yh2h28.d
 Analysis ID 90192
 Analysis Date 04/18/06 23:27
 Anal Exp Date 05/20/06
 Instrument H2A
 Analyst JMN

Prep Batch 6100051
 Prep Date 04/10/06
 Prep Exp Date 04/18/06
 Matrix AIR
 Initial Wt/Vol 1 Sample
 Extract Vol 1 mL
 Diluton Factor 1.00

Lot No H6D030241-015
 SDG No
 Date Received 04/02/06
 Date Sampled 03/28/06
 Lims Test Code XXSINYA01
 Method DXLPAH
 Code YA1

View Small Peaks? False

View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
276					276.0000		276.0000				
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	581 ✓		113			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	15		6				
288					288.0000		288.0000				
	Noise	00:00	00:00	0	15		6				
	Indeno(1,2,3-cd)pyrene-	41:07	41:08	-1	72197 ✓		17397			ABV	
	Benzo(ghi)Perylene-d12	42:06	42:06	0	52699 ✓		14118			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	37204 ✓		10759			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:

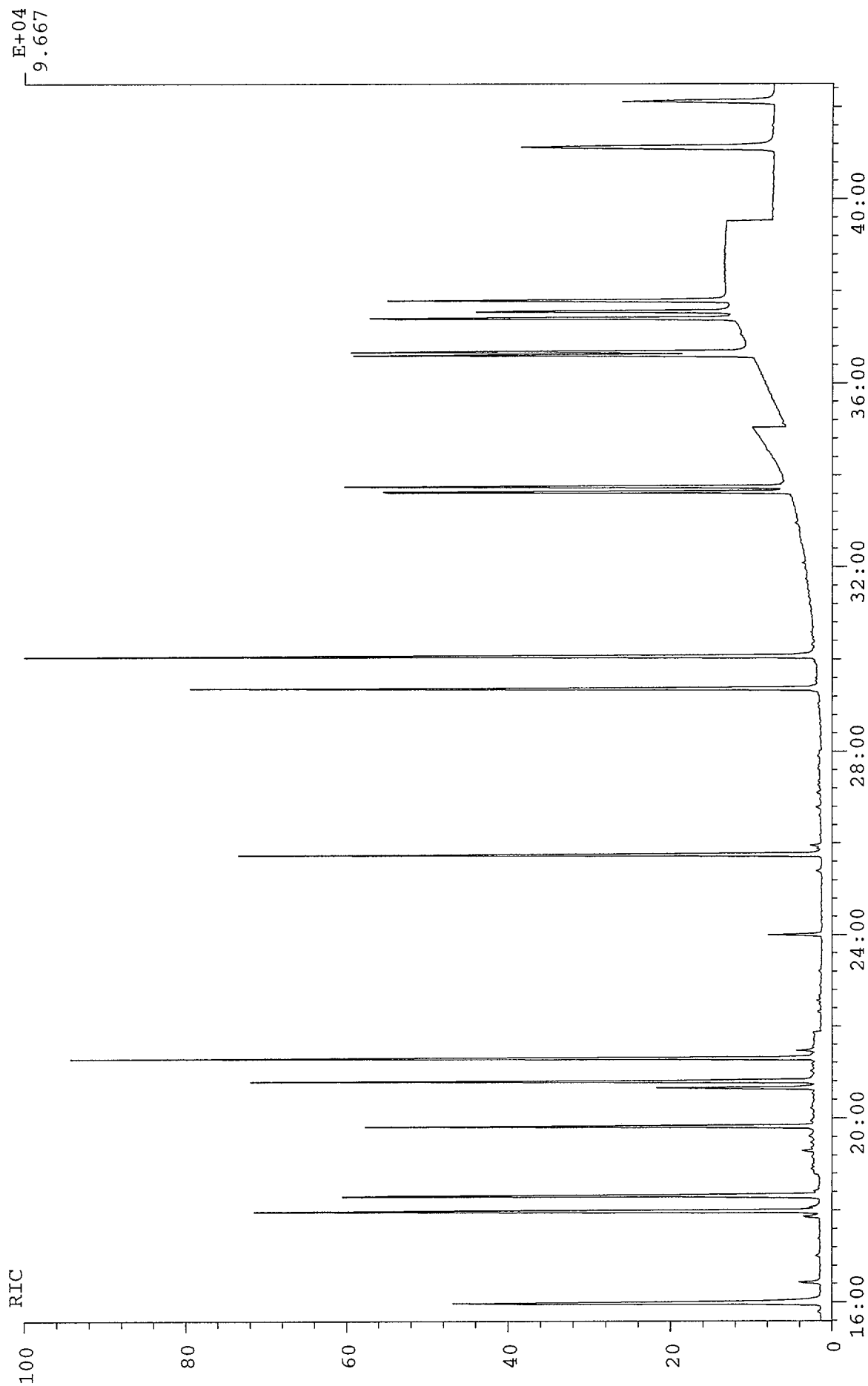
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
 T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: yh2h28
 Samp: WO=h2h281aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-015
 Peak: 100.00 ppm Label wdw: 1365 > 1373
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

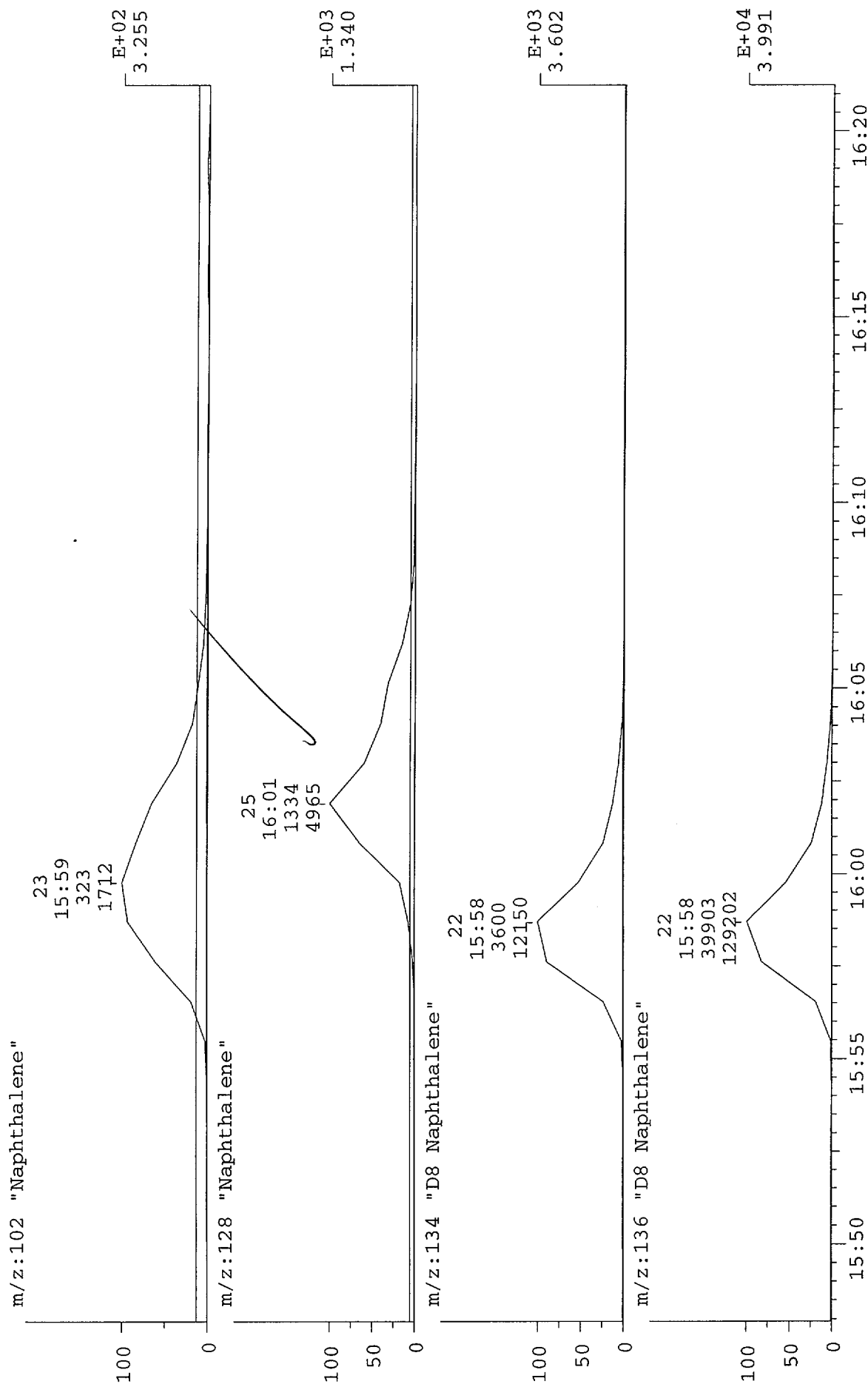
18-APR-06 Elapse: 42:06 1369
 Start : 23:27:00 1384

Study : 6100051
 Inlet :
 Masses: 0 > 308
 Label : 0, 3.0

Int / Calc: G yk000
GC Rev VMC 4/24/06

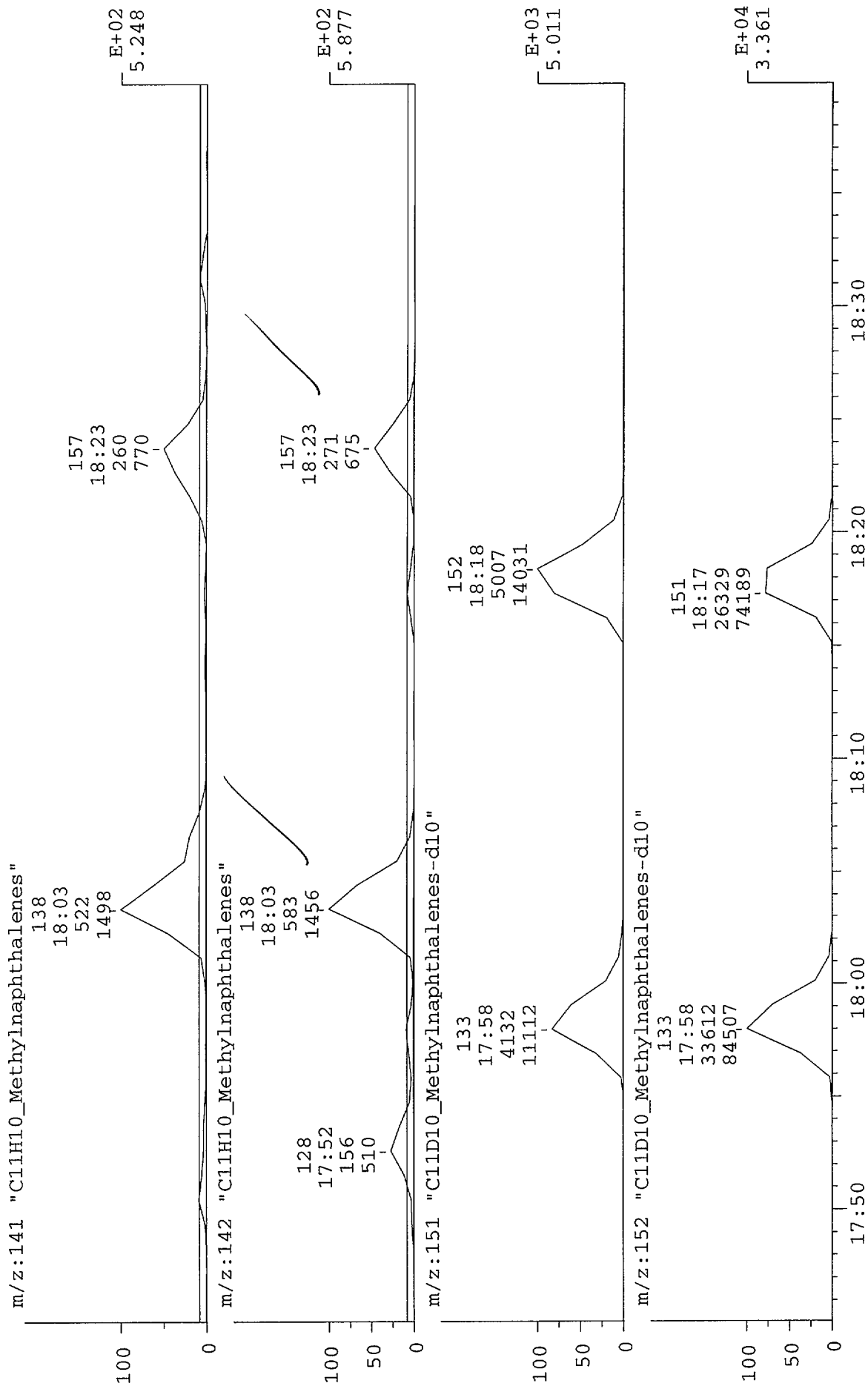


CHRO: Yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1 1328
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i 1384
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015 Study: 6100051
Peak: 100.00 ppm Label wdw: 12 > 43 Inlet: 0 > 308
Area: 5, 0.50, 15 Baseline: 100, 3 Masses: -2, 3.0
Disp: Height Area



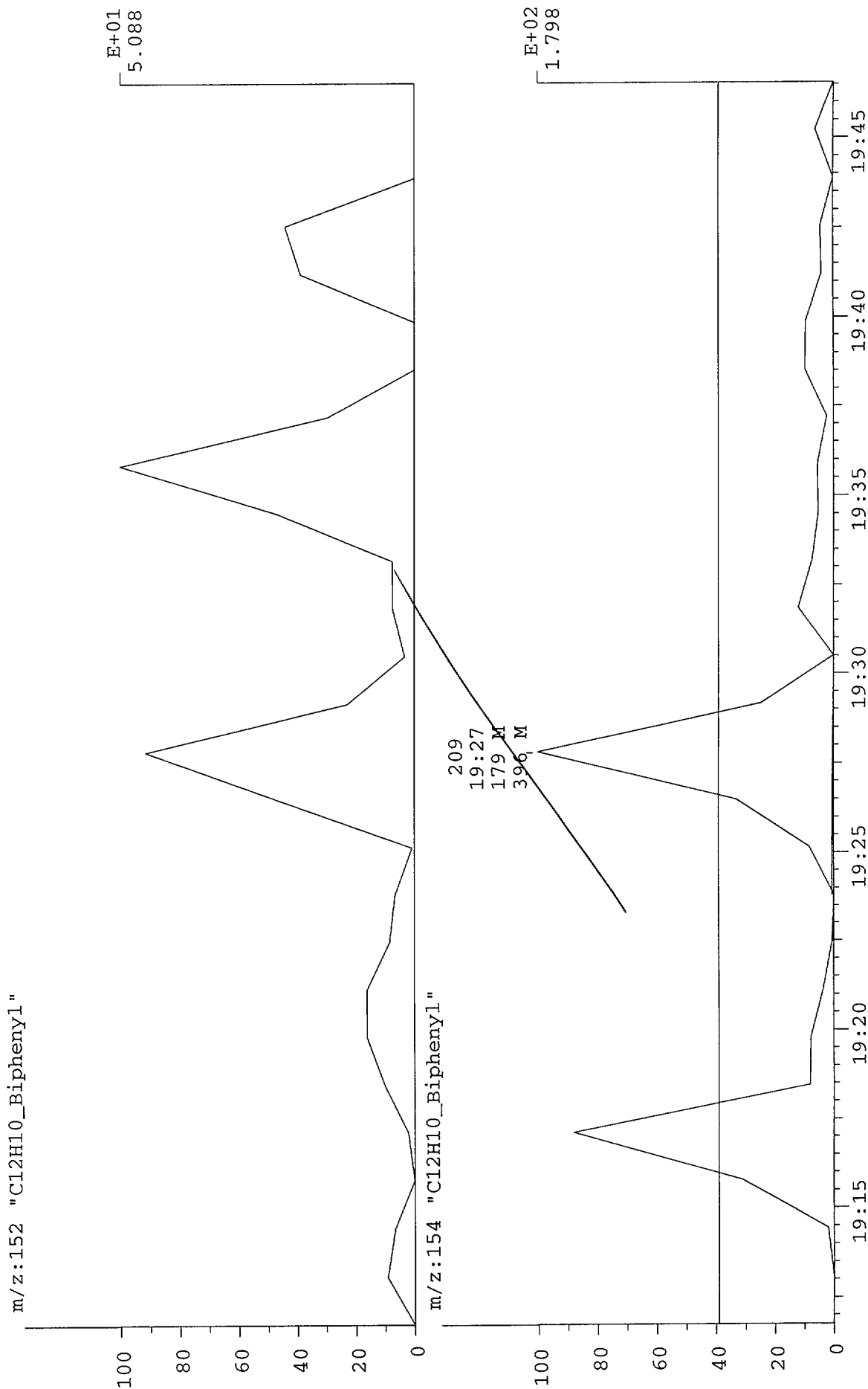
CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 41:02 1328
Start : 23:27:00 1384
Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 197 > 223
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

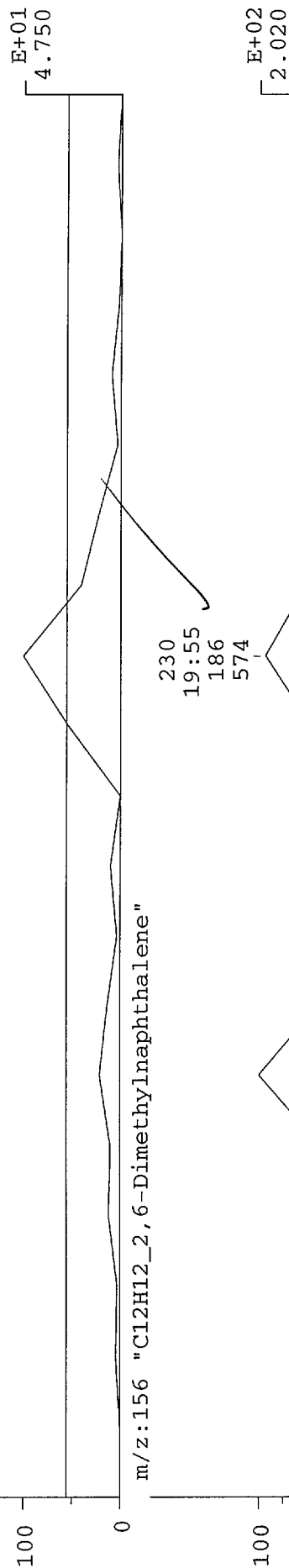
18-APR-06 Elapse: 41:02 1328
Start : 23:27:00 1384
Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 41:02 1328
Start : 23:27:00 1384
Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0

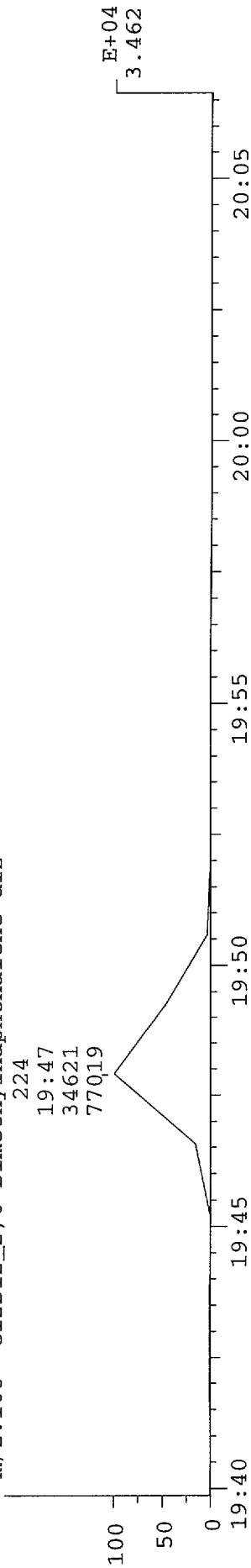
m/z:155 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"

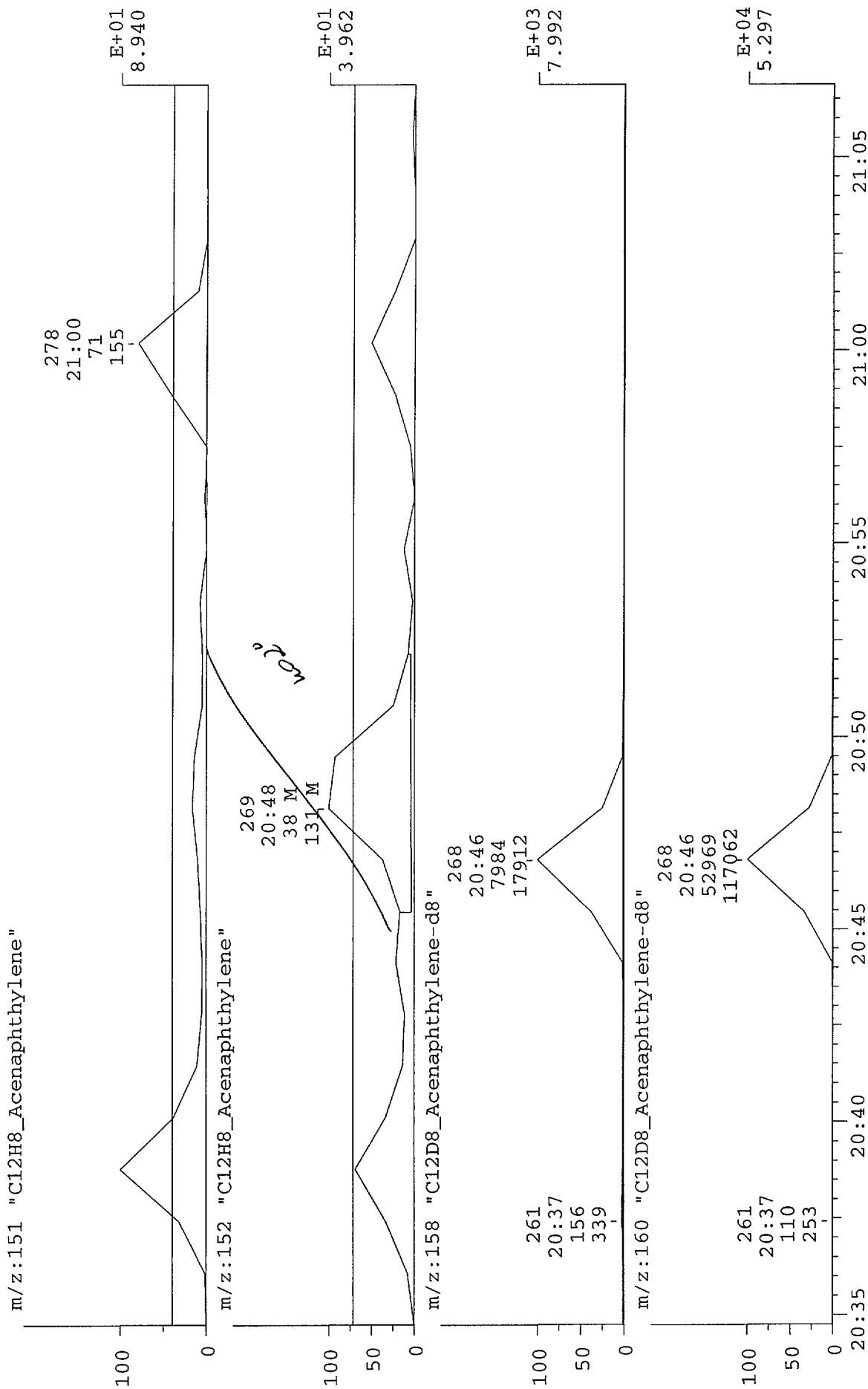


m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 41:02 1328
Start : 23:27:00 1384
Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0

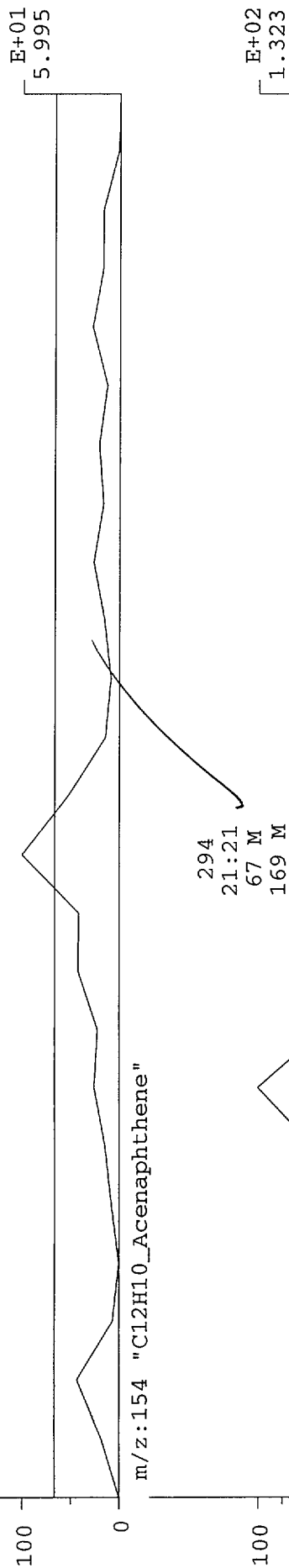


CHRO: yh2h28
 Samp: WO=h2h281aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-015
 Peak: 100.00 ppm Label wdw: 283 > 307
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

18-APR-06 Elapse: 41:02 1328
 Start : 23:27:00 1384

Study : 6100051
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:153 "C12H10_Acenaphthene"



m/z:154 "C12H10_Acenaphthene"

294
 21:21
 67 M
 169 M

m/z:163 "C12D10_Acenaphthene"

290
 21:16
 5908
 17042



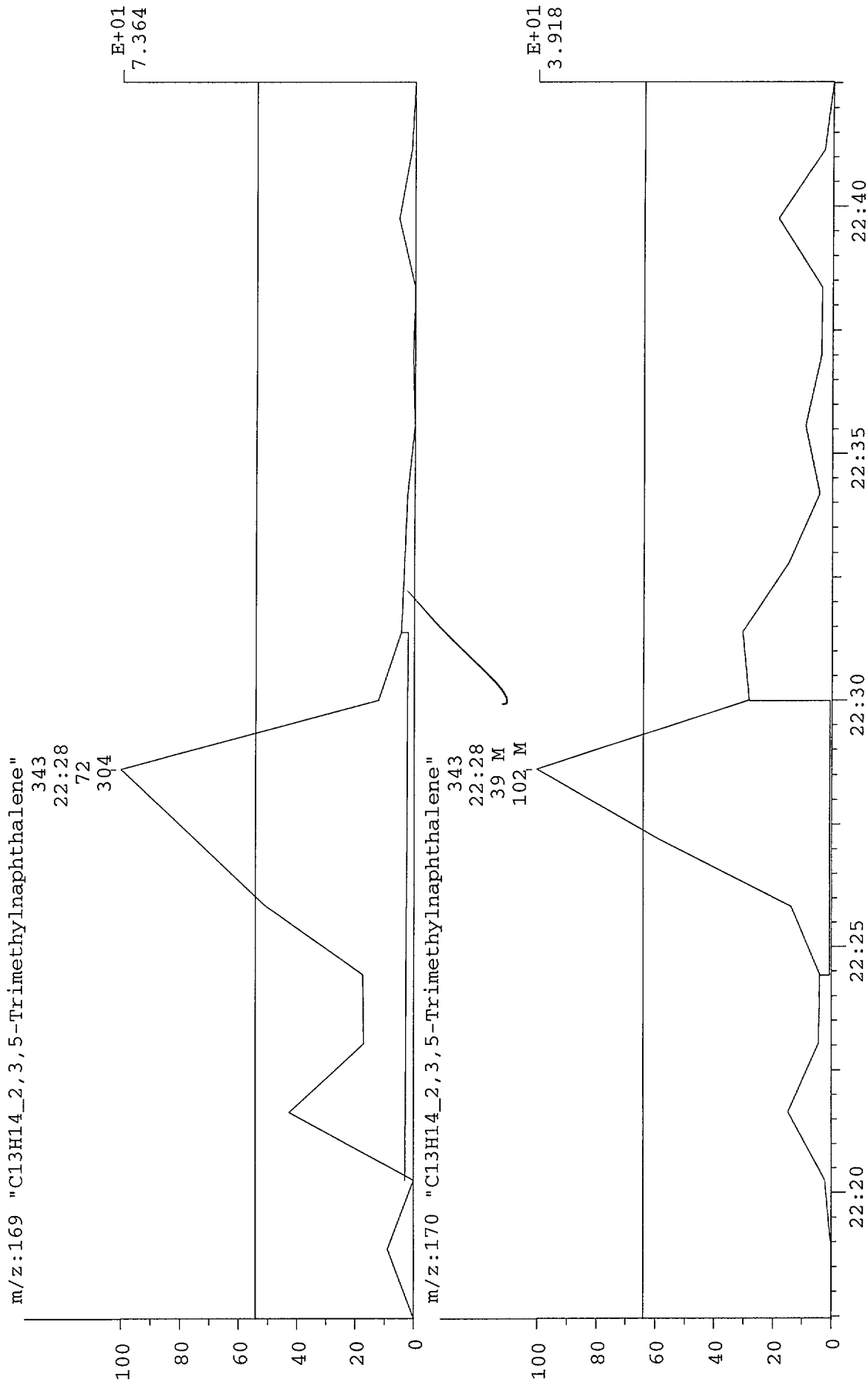
m/z:164 "C12D10_Acenaphthene"

290
 21:16
 30361
 73502

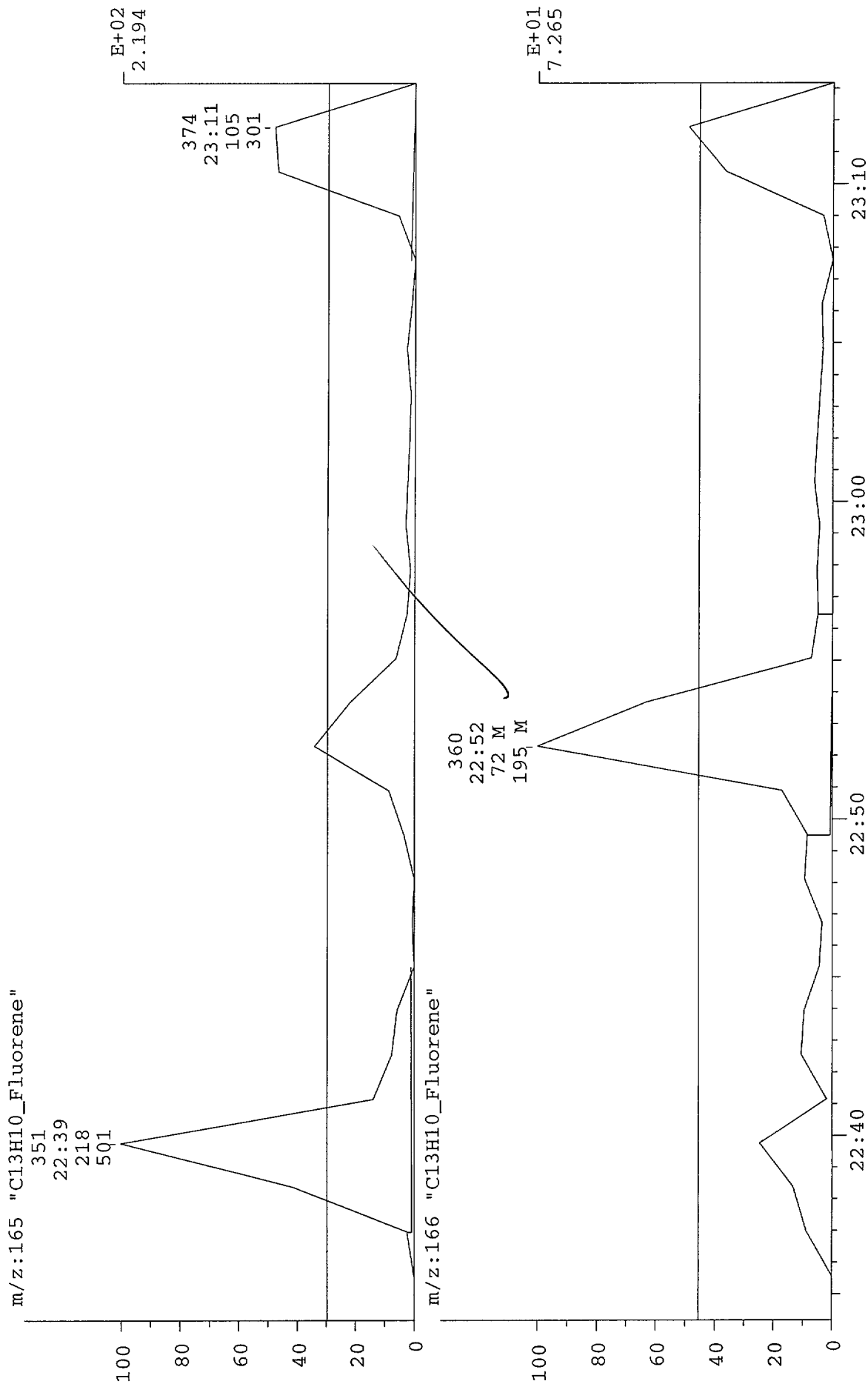


CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 41:02 1328
Start : 23:27:00 1384
Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 347 > 375
Area: 5, 0.50, 15 Baseline: 100, 1
Disp: Height Area
18-APR-06 Elapse: 41:02 1328
Start: 23:27:00 1384
Study: 6100051
Inlet: 0 > 308
Masses: -2, 3.0
Label:

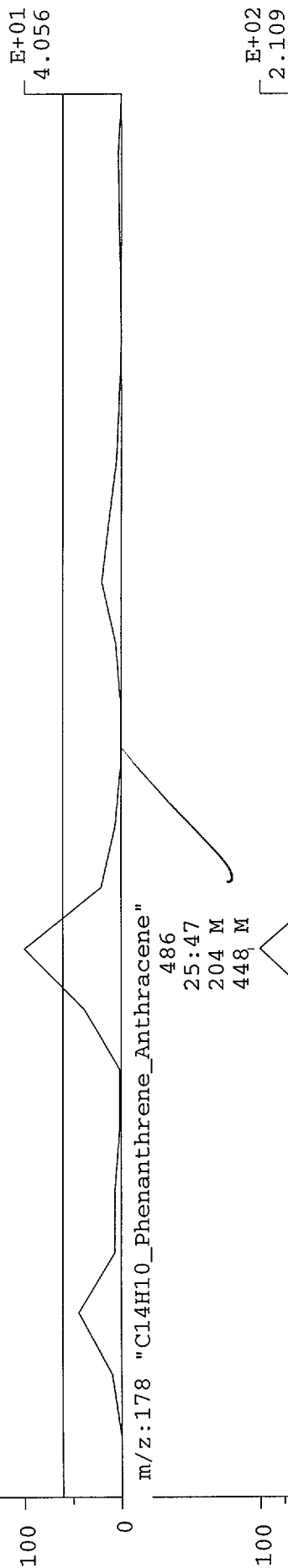


CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1 1328
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i 1384
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 41:02
Start : 23:27:00

Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0

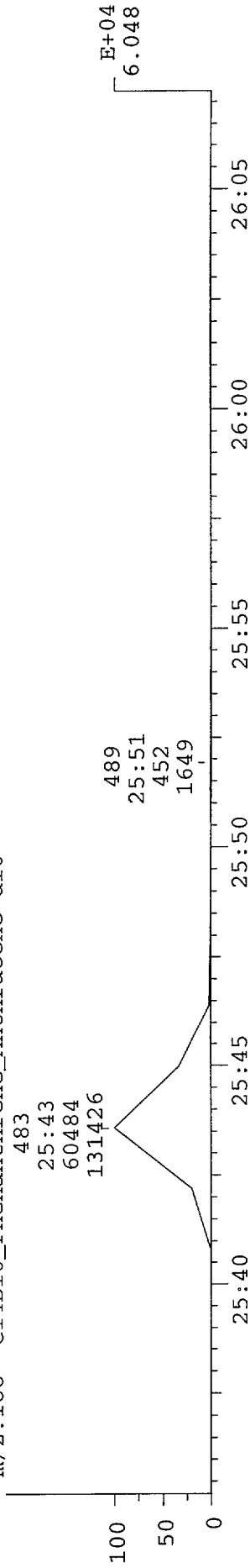
m/z:176 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



m/z:188 "C14D10_Phenanthrene_Anthracene-d10"



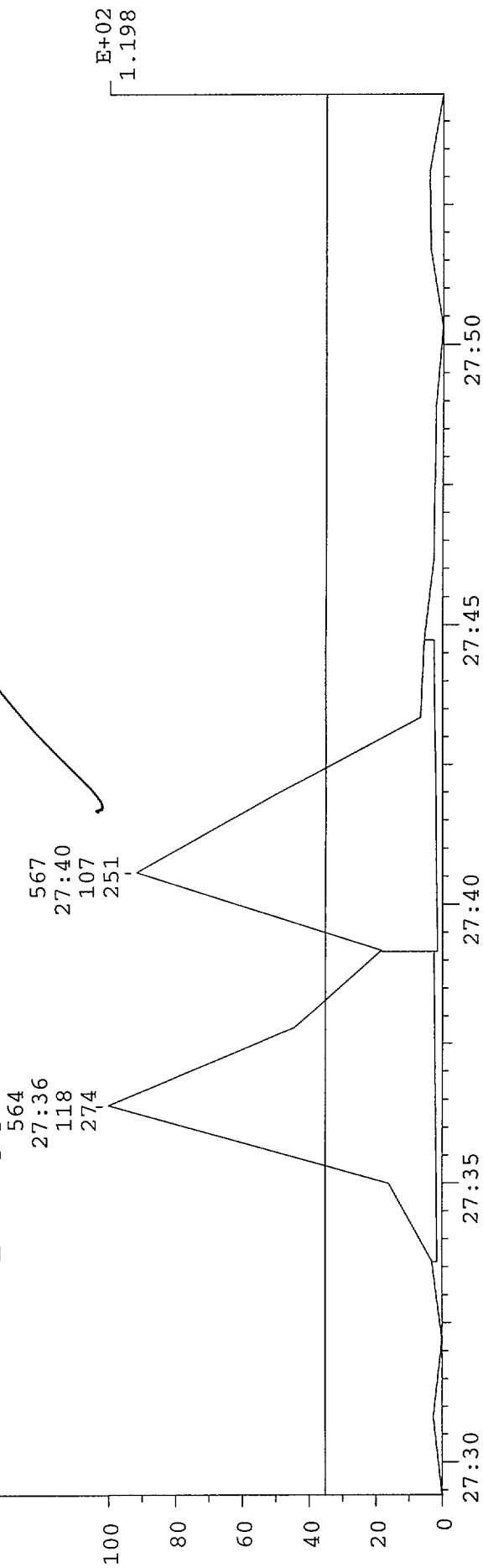
CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 41:02 1328
Start : 23:27:00 1384
Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"

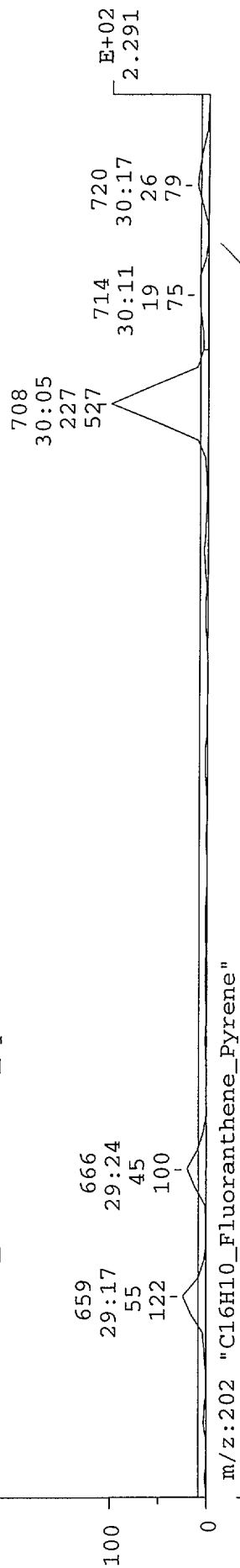


CHRO: yh2h28
 Samp: WO=h2h281aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-015
 Peak: 100.00 ppm Label wndw: 648 > 725
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

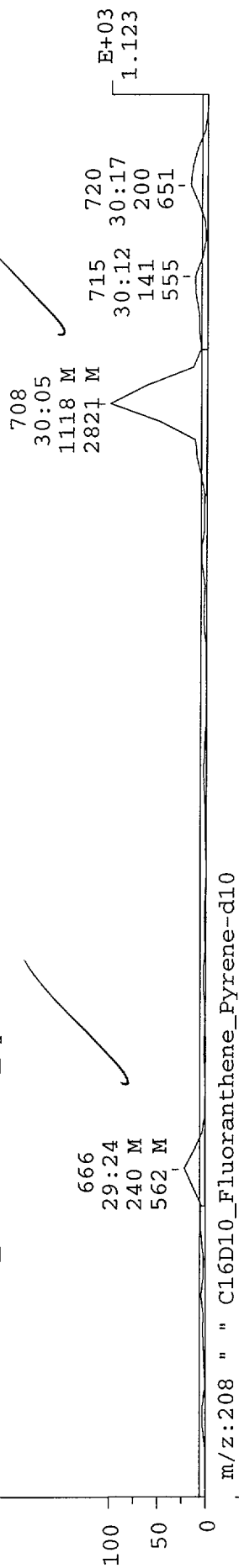
18-APR-06 Elapse: 41:02 1328
 Start : 23:27:00 1384

Study : 6100051
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

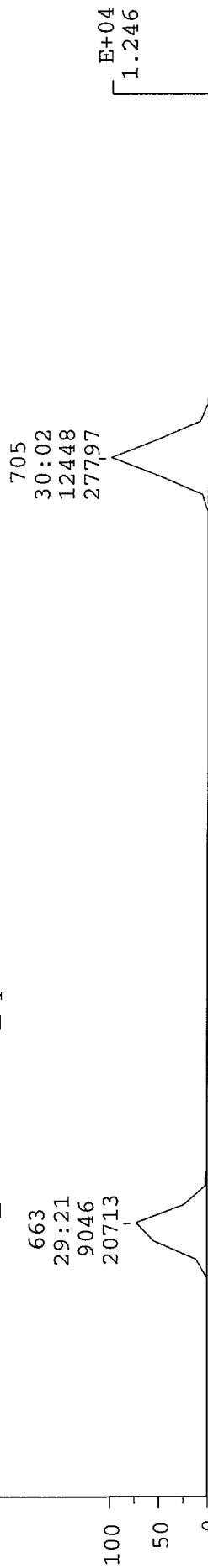
m/z:200 "C16H10_Fluoranthene_Pyrene"



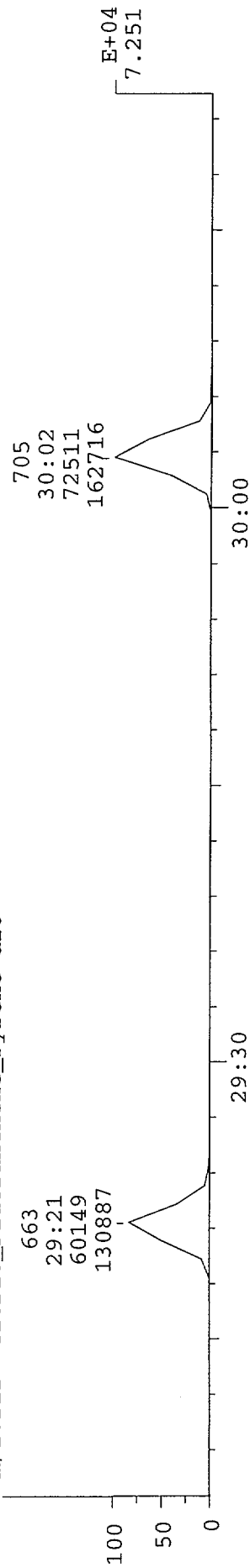
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 " " C16D10_Fluoranthene_Pyrene-d10



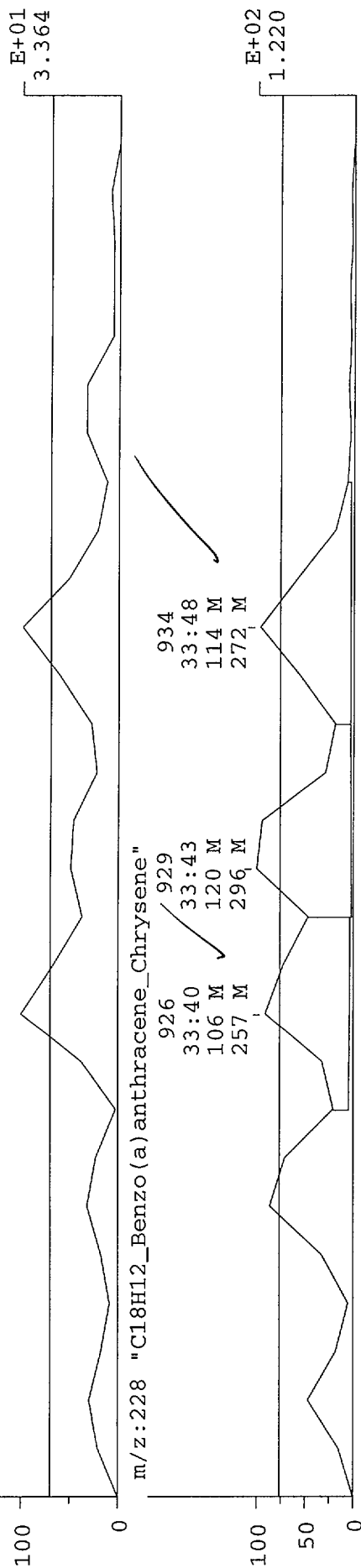
m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



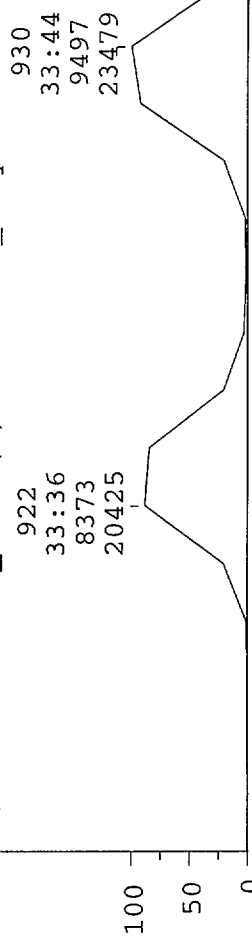
CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 916 > 945
Area: 5, 0.50, 15 Baseline: 100, 1
Disp: Height Area

18-APR-06 Elapse: 41:02 1328
Start: 23:27:00 1384
Study: 6100051
Inlet: 0 > 308
Masses: -2, 3.0

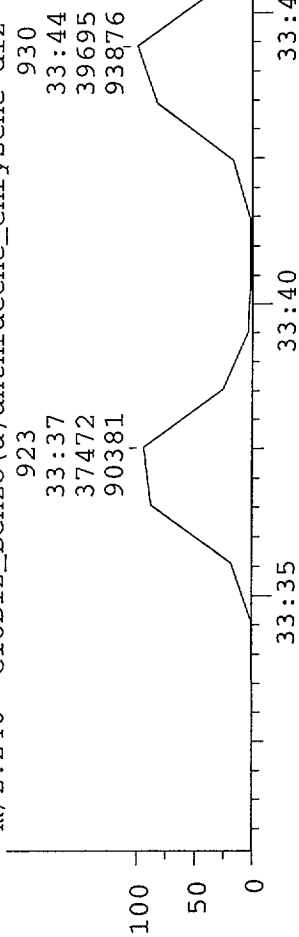
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"

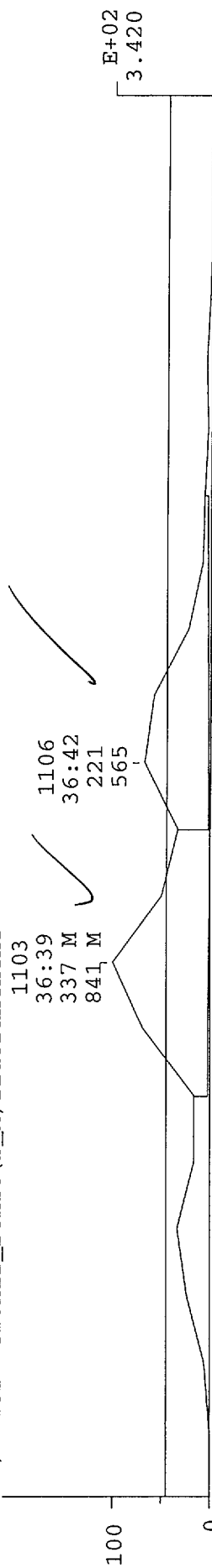


CHRO: yh2h28
 Samp: WO=h2h281aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-015
 Peak: 100.00 ppm Label wdw: 1095 > 1116
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

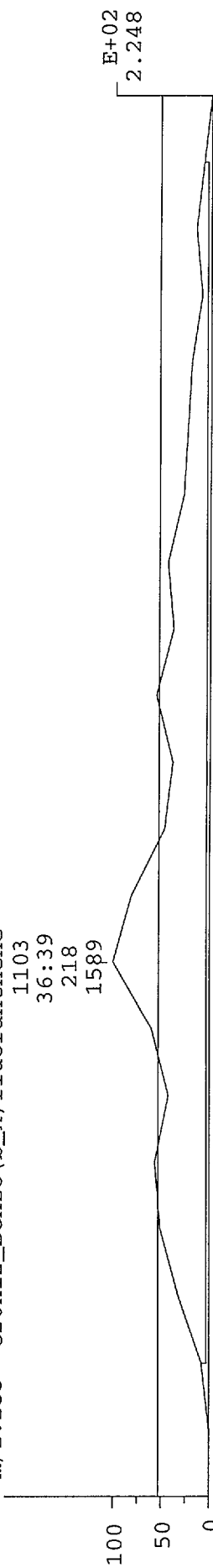
18-APR-06 Elapse: 41:02 1328
 Start : 23:27:00 1384

Study : 6100051
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

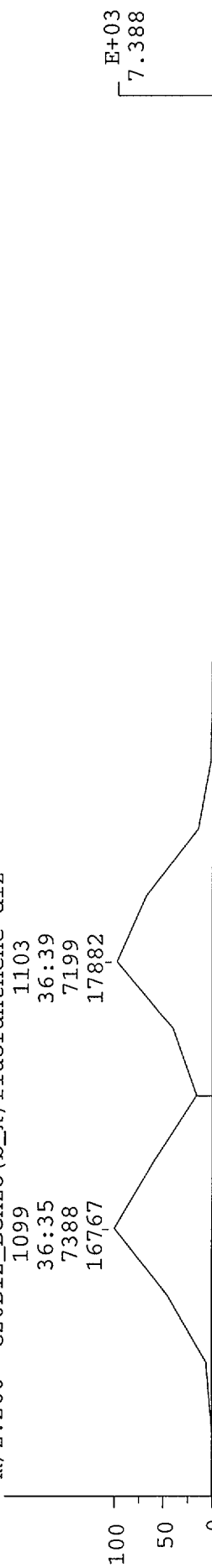
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



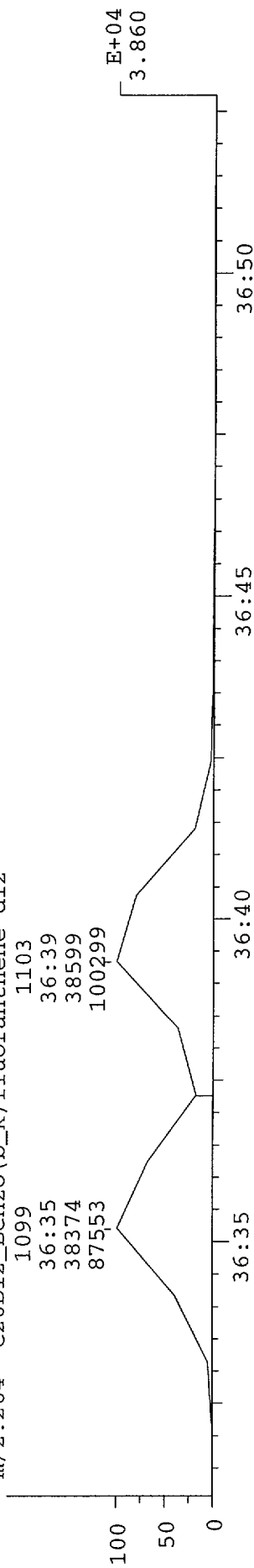
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"

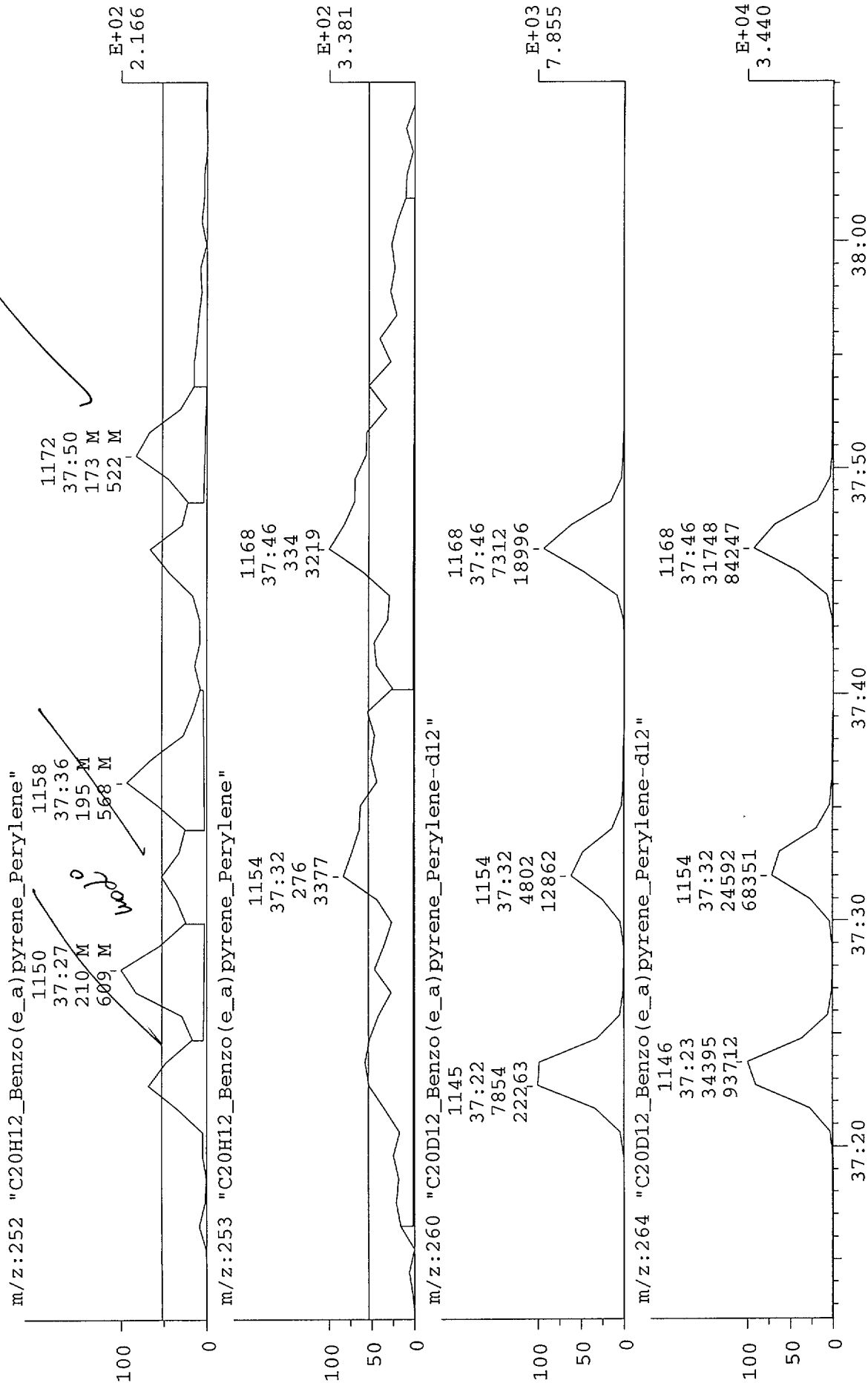


m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



CHRO: yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wndw: 1135 > 1188
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

18-APR-06 Elapse: 41:02 1328
Start : 23:27:00 1384
Study : 6100051
Inlet :
Masses: 0 > 308
Label : -2, 3.0

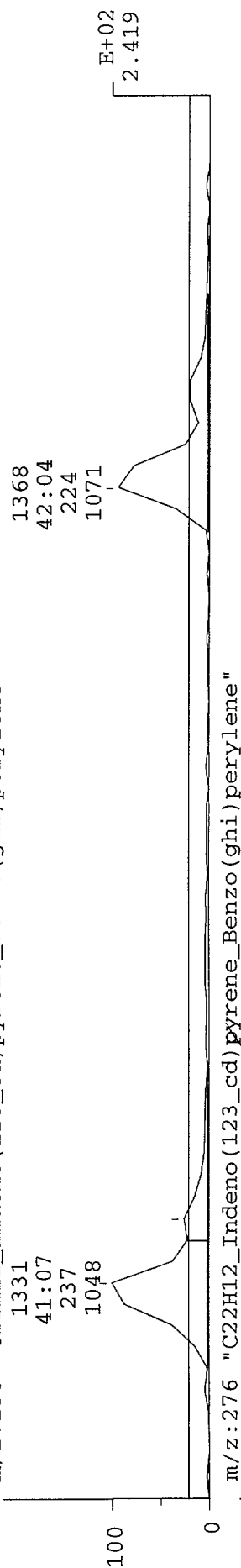


CHRO: yh2h28
 Samp: WO=h2h281aa Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=200604051
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: H6D030241-015
 Peak: 100.00 ppm Label wdw: 1321 > 1387
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

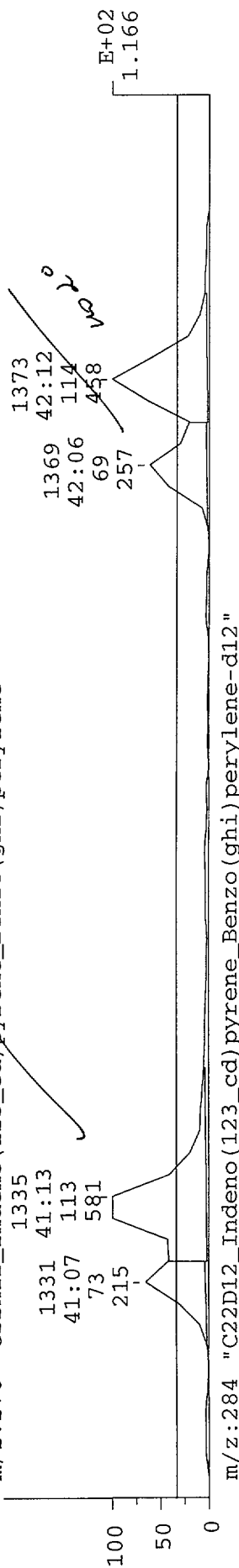
18-APR-06 Elapse: 41:02 1328
 Start : 23:27:00 1384

Study : 6100051
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

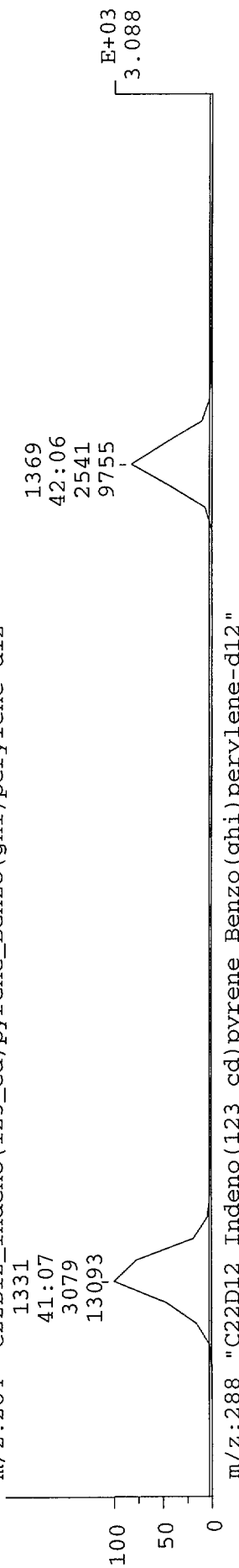
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



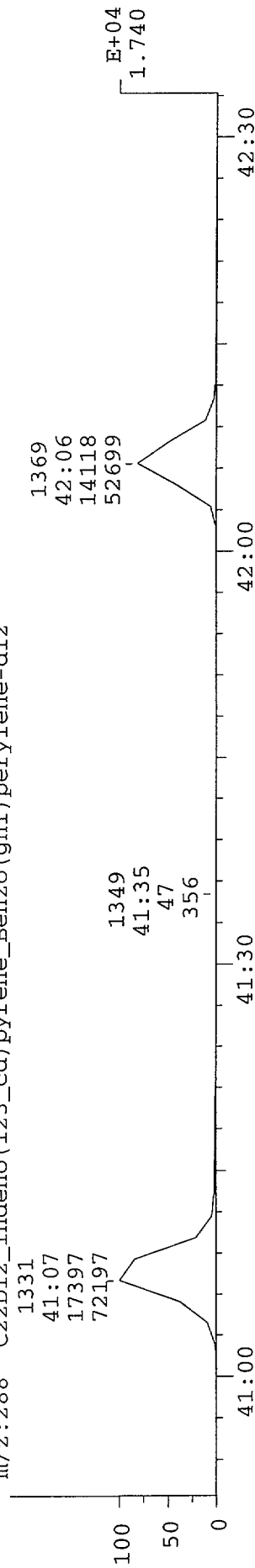
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"

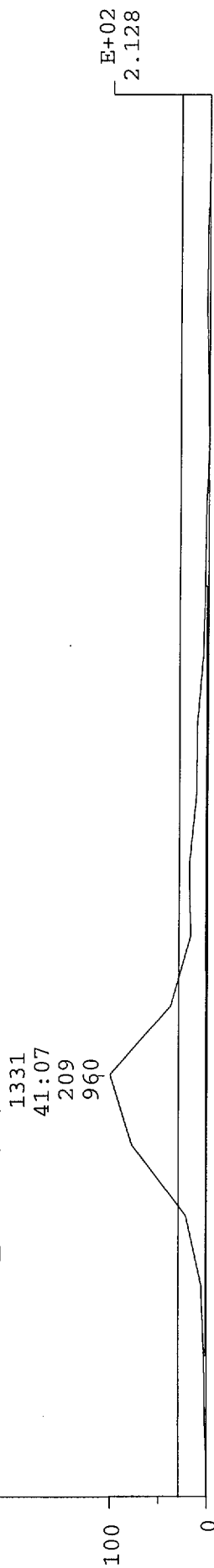


CHRO: Yh2h28
Samp: WO=h2h281aa Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: H6D030241-015
Peak: 100.00 ppm Label wdw: 1325 > 1345
Area: 5, 0.50, 15 Baseline: 100, 1
Disp: Height Area

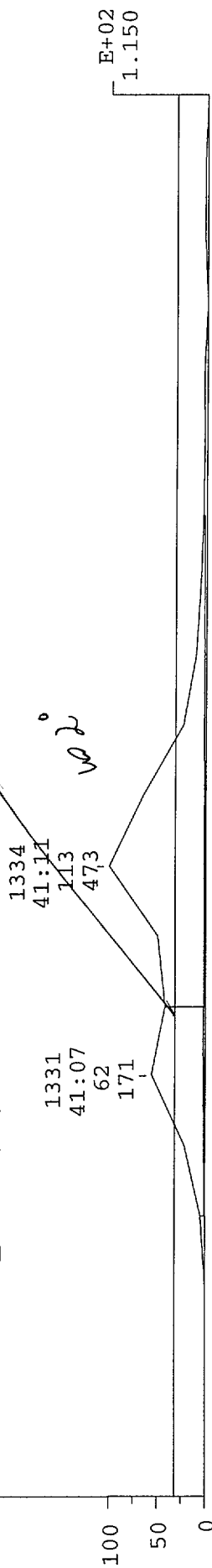
18-APR-06 Elapse: 41:02 1328
Start: 23:27:00 1384

Study: 6100051
Inlet: 0 > 308
Masses: -2, 3.0

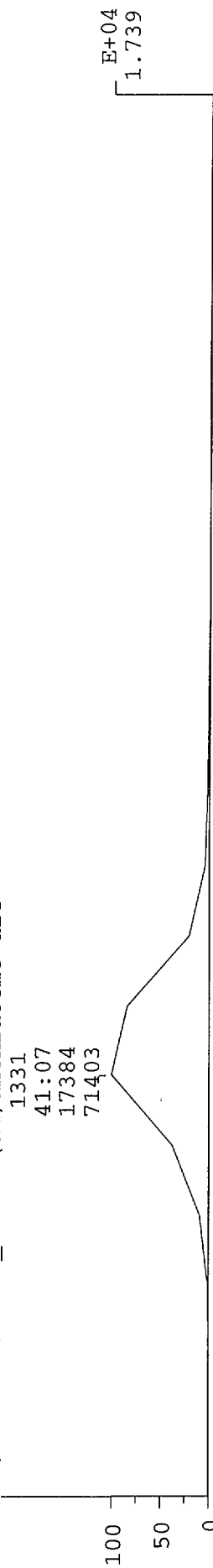
m/z:139 "C22H14_Dibenz(ah)anthracene"



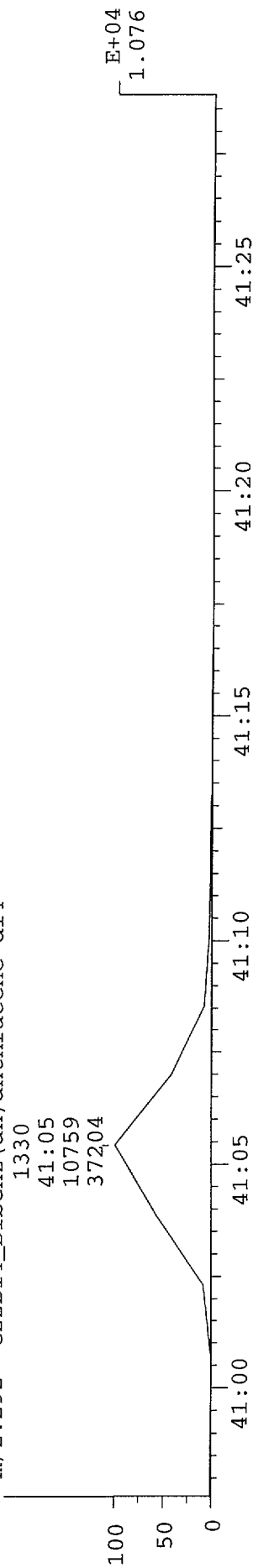
m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: YH2H28.D
 Date Acquired: 18 Apr 2006 11:27 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: H2H281AA
 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 Wed Apr 19 14:08:38 2006
 d:\cdf\files\YH2H28.CDF Translated at Wed Apr 19 14:08:38 2006 Elapsed: 0 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 19 08:35:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/yh2h28.dat
 NetCDF File (input): /usr/users/hp/data/yh2h28.cdf

Number of Scans: 1384

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

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

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

Finished converting the netCDF file!
 ICIS cdf2dat - Finished Conversion: Wed Apr 19 08:35:03 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

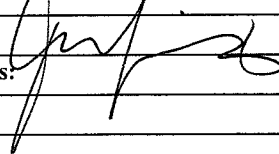
Standards Data

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

3856

Analysis Date:	4/5/06	Instrument::	H2A	ICAL Batch/Scan Name:	20060405I	Scanned	☒
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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. Were ≥ 5 levels of each compound/surrogate analyzed?		☒			☒
5. Was low level standard at or below EMDL?		☒			☒
6. Are all %RSD $\leq 30\%$		☒			☒
7. Is the signal/noise ratio for all natives and labeled analytes $\geq 10:1$ ($\geq 3:1$ allowed for confirmation ions for PAH $\geq C16$)		☒			☒
8. Is the height of the valley between benzo(e)pyrene and benzo(a)pyrene $\leq 25\%$ of the smaller peak? (m/z 252)		☒			☒
9. Is the height of the valley between anthracene and phenanthrene (m/z 178) $\leq 25\%$ of the smaller peak?		☒			☒
10. Are the MID descriptor switchpoints between the RT of the last compound and the first compound of each descriptor?		☒			☒
11. Are the absolute retention times of labeled or native target analytes within ± 60 seconds of the retention times listed in Table 5?		☒			☒
12. If manual integrations were performed, are they clearly identified, initialed, and dated?		☒			☒
13. Have manual integrations been verified as correct and are correct RFs listed in ICAL summary?		☒			☒
14. Was ICAL summary form processed using the correct method?		☒			☒
15. Are the ICAL start and end dates/times correct on ICAL summary?		☒			☒
16. Elution order checked on isomeric pairs?		☒			☒
• 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)		☒			☒
17. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	☒				☒
18. Does the ICAL folder contain complete data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target ICAL summary, MID descriptor, followed by Quan reports, chromatograms and manual integrations for all standards, in order from low to high standard.		☒			☒

Analyst:		Date:	4/6/06	2nd Level Reviewer :	VML	Date:	4/28/06
Comments:		Comments:					

PAH's by LRMS Extended List

ICAL ID: 16933

Instrument: H2A

Date: 04/05/06 15:31

Column S/N: 695821

Method: YA1 - DXLPAH

Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Level	Filename	Date/Time		Sample	Result Directory	
CS1:	y060405i1	04/05/06	15:31	3377:01_1	/20060405I/y060405i1.d	
CS2:	y060405i2	04/05/06	16:43	3377:01_2	/20060405I/y060405i2.d	
CS3:	y060405i3	04/05/06	17:33	3377:01_3	/20060405I/y060405i3.d	
CS4:	y060405i4	04/05/06	18:23	3377:01_4	/20060405I/y060405i4.d	
CS5:	y060405i5	04/05/06	19:13	3377:01_5	/20060405I/y060405i5.d	
CS6:	y060405i6	04/05/06	20:04	3377:01_6	/20060405I/y060405i6.d	
CS7:	y060405i7	04/05/06	20:54	3377:01_7	/20060405I/y060405i7.d	

Analyte	Response Factor							Mean RF	%RSD	Limit	Valid?
	CS1	CS2	CS3	CS4	CS5	CS6	CS7				
Naphthalene-d8	1.742	1.764	1.449	1.859	1.893	1.733	1.798	1.748✓	8.3	30.0	True
Naphthalene	1.265	1.201	1.246	1.175	1.158	1.252	1.178	1.211✓	3.6	30.0	True
2-Methylnaphthalene	1.298	1.247	1.304	1.229	1.221	1.328	1.254	1.269✓	3.2	30.0	True
2-Methylnaphthalene-d10	1.074	1.115	0.917	1.171	1.202	1.106	1.143	1.104✓	8.4	30.0	True
1-Methylnaphthalene	1.404	1.335	1.402	1.315	1.317	1.430	1.350	1.365✓	3.4	30.0	True
1-Methylnaphthalene-d10	0.925	0.970	0.796	1.021	1.042	0.960	0.995	0.958✓	8.5	30.0	True
Biphenyl	1.588	1.498	1.586	1.495	1.457	1.598	1.507	1.533✓	3.7	30.0	True
2,6-Dimethylnaphthalene	1.286	1.209	1.283	1.205	1.194	1.326	1.243	1.249✓	4.0	30.0	True
2,6-Dimethylnaphthalene-d12	0.947	0.977	0.814	1.042	1.065	0.979	1.013	0.977✓	8.4	30.0	True
Acenaphthylene	1.238	1.190	1.262	1.204	1.206	1.336	1.268	1.244✓	4.1	30.0	True
Acenaphthylene-d8	1.478	1.545	1.285	1.642	1.697	1.575	1.616	1.548✓	8.8	30.0	True
Acenaphthene-d10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000✓	0.0	30.0	True
Acenaphthene	0.765	0.742	0.784	0.744	0.732	0.806	0.763	0.762✓	3.4	30.0	True
2,3,5-Trimethylnaphthalene	1.114	1.081	1.137	1.086	1.084	1.229	1.159	1.127✓	4.8	30.0	True
Fluorene d-10				0.811	0.782	0.889	0.866	0.837✓	5.9	30.0	True
Fluorene-C13				0.778	0.747	0.844	0.816	0.796✓	5.3	30.0	True
Fluorene	0.885	0.880	0.924	0.910	0.897	0.984	0.924	0.915✓	3.8	30.0	True
Phenanthrene-d10	0.739	0.750	0.632	0.812	0.831	0.747	0.762	0.753✓	8.5	30.0	True
Phenanthrene	1.231	1.171	1.236	1.191	1.174	1.296	1.215	1.216✓	3.6	30.0	True
Anthracene-d10	0.636	0.628	0.548	0.687	0.702	0.716	0.666	0.655✓	8.7	30.0	True
Anthracene	0.996	0.970	1.048	1.024	1.044	1.193	1.136	1.059✓	7.5	30.0	True
1-Methylphenanthrene	0.844	0.812	0.870	0.853	0.845	0.956	0.912	0.870✓	5.6	30.0	True
Fluoranthene-d10	0.710	0.722	0.603	0.782	0.795	0.729	0.744	0.727✓	8.6	30.0	True
Fluoranthene	1.359	1.244	1.339	1.303	1.297	1.436	1.359	1.334✓	4.6	30.0	True
Pyrene-d10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000✓	0.0	30.0	True
Pyrene	1.440	1.274	1.382	1.326	1.313	1.466	1.381	1.369✓	5.0	30.0	True
Terphenyl-d14				0.759	0.733	0.856	0.836	0.796✓	7.4	30.0	True
Benzo(a) Anthracene-d12	0.512	0.506	0.423	0.555	0.563	0.533	0.555	0.521✓	9.4	30.0	True
Benzo(a) anthracene	1.453	1.327	1.438	1.417	1.414	1.606	1.520	1.454✓	6.1	30.0	True
Chrysene-d12	0.528	0.534	0.453	0.600	0.609	0.578	0.596	0.557✓	10.0	30.0	True
Chrysene	1.461	1.289	1.365	1.317	1.303	1.438	1.367	1.363✓	4.9	30.0	True
Benzo(b) Fluoranthene-d12	0.815	0.839	0.700	0.898	0.922	0.843	0.913	0.847✓	9.0	30.0	True
Benzo(k) Fluoranthene-d12	0.952	0.970	0.816	1.051	1.113	1.060	1.056	1.002✓	9.9	30.0	True
Benzo(b) fluoranthene	1.739	1.511	1.575	1.287	1.460	1.599	1.382	1.508✓	9.9	30.0	True
Benzo(k) fluoranthene	1.158	1.017	1.090	1.241	1.037	1.186	1.226	1.136✓	7.9	30.0	True
Benzo(e) pyrene-d12	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000✓	0.0	30.0	True
Benzo(e) pyrene	1.785	1.535	1.615	1.529	1.489	1.627	1.538	1.589✓	6.3	30.0	True
Benzo(a) Pyrene-d12	0.711	0.717	0.599	0.775	0.808	0.760	0.789	0.737✓	9.6	30.0	True
Benzo(a) pyrene	1.317	1.210	1.326	1.288	1.290	1.470	1.428	1.333✓	6.7	30.0	True
Perylene-d12	0.855	0.871	0.728	0.932	0.975	0.912	0.934	0.887✓	9.1	30.0	True
Perylene	1.158	1.076	1.175	1.146	1.138	1.295	1.257	1.178✓	6.3	30.0	True
Dibenz(ah) Anthracene-d14	0.402	0.393	0.328	0.424	0.439	0.414	0.432	0.405✓	9.2	30.0	True
Indeno(1,2,3-cd) pyrene-d12	0.764	0.758	0.635	0.816	0.847	0.799	0.834	0.779✓	9.2	30.0	True
Indeno(1,2,3-cd) pyrene	1.332	1.217	1.275	1.239	1.250	1.395	1.368	1.297✓	5.3	30.0	True
Dibenz(a,h) anthracene	2.200	1.882	2.025	1.947	1.968	2.216	2.173	2.059✓	6.6	30.0	True
Benzo(ghi) Perylene-d12	0.557	0.556	0.457	0.591	0.605	0.562	0.587	0.559✓	8.7	30.0	True
Benzo(ghi) perylene	1.848	1.576	1.698	1.602	1.613	1.808	1.742	1.698✓	6.3	30.0	True

PAH's by LRMS Extended List

ICAL ID: 16933

Instrument: H2A

Date: 04/05/06 15:31

Column S/N: 695821

Method: YA1 - DXLPAH

Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Level	Filename	Date/Time	Sample	Result Directory
CS1:	y060405i1	04/05/06 15:31	3377:01_1	/20060405I/y060405i1.d
CS2:	y060405i2	04/05/06 16:43	3377:01_2	/20060405I/y060405i2.d
CS3:	y060405i3	04/05/06 17:33	3377:01_3	/20060405I/y060405i3.d
CS4:	y060405i4	04/05/06 18:23	3377:01_4	/20060405I/y060405i4.d
CS5:	y060405i5	04/05/06 19:13	3377:01_5	/20060405I/y060405i5.d
CS6:	y060405i6	04/05/06 20:04	3377:01_6	/20060405I/y060405i6.d
CS7:	y060405i7	04/05/06 20:54	3377:01_7	/20060405I/y060405i7.d

Analyte	Retention Time							Mean RT
	CS1	CS2	CS3	CS4	CS5	CS6	CS7	
Naphthalene-d8	15:58	15:58	15:58	15:58	15:58	15:58	15:59	15:58
Naphthalene	16:01	16:01	16:01	16:01	16:01	16:03	16:03	16:02
2-Methylnaphthalene	18:04	18:04	18:04	18:04	18:04	18:04	18:04	18:04
2-Methylnaphthalene-d10	17:58	17:59	17:59	17:59	17:59	17:59	17:59	17:59
1-Methylnaphthalene	18:24	18:24	18:24	18:24	18:24	18:24	18:24	18:24
1-Methylnaphthalene-d10	18:18	18:18	18:18	18:18	18:18	18:18	18:18	18:18
Biphenyl	19:28	19:27	19:27	19:27	19:27	19:27	19:27	19:27
2,6-Dimethylnaphthalene	19:56	19:56	19:56	19:56	19:56	19:56	19:56	19:56
2,6-Dimethylnaphthalene-d12	19:48	19:49	19:49	19:49	19:49	19:49	19:49	19:49
Acenaphthylene	20:49	20:49	20:49	20:49	20:49	20:49	20:49	20:49
Acenaphthylene-d8	20:47	20:48	20:48	20:48	20:48	20:48	20:48	20:48
Acenaphthene-d10	21:17	21:17	21:17	21:17	21:17	21:17	21:17	21:17
Acenaphthene	21:22	21:23	21:23	21:23	21:23	21:23	21:23	21:23
2,3,5-Trimethylnaphthalene	22:29	22:30	22:30	22:30	22:30	22:30	22:30	22:30
Fluorene d-10				22:48	22:48	22:48	22:49	22:48
Fluorene-C13				22:53	22:53	22:53	22:53	22:53
Fluorene	22:53	22:53	22:53	22:53	22:53	22:53	22:53	22:53
Phenanthrene-d10	25:44	25:45	25:45	25:45	25:45	25:45	25:45	25:45
Phenanthrene	25:48	25:49	25:49	25:49	25:49	25:49	25:49	25:49
Anthracene-d10	25:52	25:53	25:53	25:53	25:53	25:53	25:53	25:53
Anthracene	25:57	25:56	25:56	25:56	25:56	25:56	25:56	25:56
1-Methylphenanthrene	27:41	27:42	27:42	27:42	27:42	27:42	27:42	27:42
Fluoranthene-d10	29:22	29:22	29:22	29:22	29:22	29:22	29:22	29:22
Fluoranthene	29:25	29:25	29:25	29:25	29:25	29:25	29:25	29:25
Pyrene-d10	30:03	30:03	30:03	30:03	30:03	30:03	30:03	30:03
Pyrene	30:06	30:06	30:06	30:06	30:06	30:06	30:06	30:06
Terphenyl-d14				30:31	30:31	30:31	30:32	30:31
Benzo(a) Anthracene-d12	33:38	33:37	33:37	33:37	33:37	33:37	33:38	33:37
Benzo(a) anthracene	33:41	33:41	33:41	33:41	33:41	33:41	33:42	33:41
Chrysene-d12	33:45	33:45	33:45	33:44	33:45	33:45	33:45	33:45
Chrysene	33:49	33:49	33:49	33:49	33:49	33:49	33:49	33:49
Benzo(b) Fluoranthene-d12	36:36	36:36	36:36	36:36	36:36	36:36	36:36	36:36
Benzo(k) Fluoranthene-d12	36:40	36:40	36:40	36:40	36:40	36:41	36:41	36:40
Benzo(b) fluoranthene	36:40	36:40	36:40	36:40	36:40	36:40	36:40	36:40
Benzo(k) fluoranthene	36:43	36:43	36:43	36:43	36:43	36:44	36:44	36:43
Benzo(e) pyrene-d12	37:24	37:24	37:24	37:24	37:24	37:24	37:24	37:24
Benzo(e) pyrene	37:28	37:28	37:28	37:28	37:28	37:28	37:28	37:28
Benzo(a) Pyrene-d12	37:34	37:33	37:33	37:33	37:33	37:34	37:34	37:33
Benzo(a) pyrene	37:37	37:37	37:37	37:37	37:37	37:37	37:38	37:37
Perylene-d12	37:47	37:47	37:47	37:47	37:47	37:47	37:48	37:47
Perylene	37:51	37:51	37:51	37:51	37:51	37:52	37:52	37:51
Dibenz(ah) Anthracene-d14	41:06	41:07	41:07	41:07	41:07	41:07	41:07	41:07
Indeno(1,2,3-cd) pyrene-d12	41:10	41:08	41:08	41:08	41:08	41:08	41:10	41:09
Indeno(1,2,3-cd) pyrene	41:14	41:13	41:13	41:13	41:13	41:14	41:14	41:13
Dibenz(a,h) anthracene	41:13	41:13	41:13	41:13	41:13	41:13	41:14	41:13
Benzo(ghi) Perylene-d12	42:07	42:07	42:07	42:07	42:07	42:07	42:07	42:07
Benzo(ghi) perylene	42:14	42:14	42:14	42:14	42:14	42:14	42:15	42:14

PAH's by LRMS Extended List

ICAL ID: 16933

Instrument: H2A

Date: 04/05/06 15:31

Column S/N: 695821

Method: YA1 - DXLPAH

Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Level	Filename	Date/Time	Sample	Result Directory
CS1:	y060405i1	04/05/06 15:31	3377:01_1	/20060405I/y060405i1.d
CS2:	y060405i2	04/05/06 16:43	3377:01_2	/20060405I/y060405i2.d
CS3:	y060405i3	04/05/06 17:33	3377:01_3	/20060405I/y060405i3.d
CS4:	y060405i4	04/05/06 18:23	3377:01_4	/20060405I/y060405i4.d
CS5:	y060405i5	04/05/06 19:13	3377:01_5	/20060405I/y060405i5.d
CS6:	y060405i6	04/05/06 20:04	3377:01_6	/20060405I/y060405i6.d
CS7:	y060405i7	04/05/06 20:54	3377:01_7	/20060405I/y060405i7.d

Analyte	Relative Retention Time							Mean RRT
	CS1	CS2	CS3	CS4	CS5	CS6	CS7	
Naphthalene-d8	0.7502	0.7502	0.7502	0.7502	0.7502	0.7502	0.7510	0.7503
Naphthalene	1.0031	1.0031	1.0031	1.0031	1.0031	1.0052	1.0042	1.0036
2-Methylnaphthalene	1.0056	1.0046	1.0046	1.0046	1.0046	1.0046	1.0046	1.0048
2-Methylnaphthalene-d10	0.8442	0.8449	0.8449	0.8449	0.8449	0.8449	0.8449	0.8448
1-Methylnaphthalene	1.0055	1.0055	1.0055	1.0055	1.0055	1.0055	1.0055	1.0055
1-Methylnaphthalene-d10	0.8598	0.8598	0.8598	0.8598	0.8598	0.8598	0.8598	0.8598
Biphenyl	1.0835	1.0816	1.0816	1.0816	1.0816	1.0816	1.0816	1.0818
2,6-Dimethylnaphthalene	1.0067	1.0059	1.0059	1.0059	1.0059	1.0059	1.0059	1.0060
2,6-Dimethylnaphthalene-d12	0.9303	0.9311	0.9311	0.9311	0.9311	0.9311	0.9311	0.9310
Acenaphthylene	1.0016	1.0008	1.0008	1.0008	1.0008	1.0008	1.0008	1.0009
Acenaphthylene-d8	0.9765	0.9773	0.9773	0.9773	0.9773	0.9773	0.9773	0.9772
Acenaphthene-d10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Acenaphthene	1.0281	1.0280	1.0280	1.0280	1.0280	1.0280	1.0280	1.0280
2,3,5-Trimethylnaphthalene	1.1355	1.1354	1.1354	1.1354	1.1354	1.1354	1.1354	1.1354
Fluorene d-10	1.1355	1.1354	1.1354	0.8854	0.8854	0.8854	0.8861	0.8856
Fluorene-C13	1.1355	1.1354	1.1354	0.8887	0.8887	0.8887	0.8887	0.8887
Fluorene	0.8892	0.8887	0.8887	0.8887	0.8887	0.8887	0.8887	0.8888
Phenanthrene-d10	0.8564	0.8569	0.8569	0.8569	0.8569	0.8569	0.8569	0.8568
Phenanthrene	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026
Anthracene-d10	0.8608	0.8613	0.8613	0.8613	0.8613	0.8613	0.8613	0.8613
Anthracene	1.0084	1.0071	1.0071	1.0071	1.0071	1.0071	1.0071	1.0073
1-Methylphenanthrene	1.0758	1.0757	1.0757	1.0757	1.0757	1.0757	1.0757	1.0757
Fluoranthene-d10	0.9773	0.9773	0.9773	0.9773	0.9773	0.9773	0.9773	0.9773
Fluoranthene	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017
Pyrene-d10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Pyrene	1.0250	1.0250	1.0250	1.0250	1.0250	1.0250	1.0250	1.0250
Terphenyl-d14	1.0250	1.0250	1.0250	1.0392	1.0392	1.0392	1.0397	1.0393
Benzo(a)Anthracene-d12	1.1192	1.1187	1.1187	1.1187	1.1187	1.1187	1.1192	1.1188
Benzo(a)anthracene	1.0015	1.0020	1.0020	1.0020	1.0020	1.0020	1.0020	1.0019
Chrysene-d12	1.1231	1.1231	1.1231	1.1226	1.1231	1.1231	1.1231	1.1230
Chrysene	1.0020	1.0020	1.0020	1.0025	1.0020	1.0020	1.0020	1.0020
Benzo(b)Fluoranthene-d12	0.9786	0.9786	0.9786	0.9786	0.9786	0.9786	0.9786	0.9786
Benzo(k)Fluoranthene-d12	0.9804	0.9804	0.9804	0.9804	0.9804	0.9808	0.9808	0.9805
Benzo(b)fluoranthene	1.0018	1.0018	1.0018	1.0018	1.0018	1.0018	1.0018	1.0018
Benzo(k)fluoranthene	1.0014	1.0014	1.0014	1.0014	1.0014	1.0014	1.0014	1.0014
Benzo(e)pyrene-d12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Benzo(e)pyrene	0.9973	0.9978	0.9978	0.9978	0.9978	0.9973	0.9973	0.9976
Benzo(a)Pyrene-d12	1.0045	1.0040	1.0040	1.0040	1.0040	1.0045	1.0045	1.0042
Benzo(a)pyrene	1.0013	1.0018	1.0018	1.0018	1.0018	1.0013	1.0018	1.0016
Perylene-d12	1.0102	1.0102	1.0102	1.0102	1.0102	1.0102	1.0107	1.0103
Perylene	1.0018	1.0018	1.0018	1.0018	1.0018	1.0022	1.0018	1.0018
Dibenz(ah)Anthracene-d14	1.0989	1.0994	1.0994	1.0994	1.0994	1.0994	1.0994	1.0993
Indeno(1,2,3-cd)pyrene-d12	1.1007	1.0998	1.0998	1.0998	1.0998	1.0998	1.1007	1.1001
Indeno(1,2,3-cd)pyrene	1.0016	1.0020	1.0020	1.0020	1.0020	1.0024	1.0016	1.0020
Dibenz(a,h)anthracene	1.0028	1.0024	1.0024	1.0024	1.0024	1.0024	1.0028	1.0025
Benzo(ghi)Perylene-d12	1.1261	1.1261	1.1261	1.1261	1.1261	1.1261	1.1261	1.1261
Benzo(ghi)perylene	1.0028	1.0028	1.0028	1.0028	1.0028	1.0028	1.0032	1.0028

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



IsoCalc

Workorder 3377:01_1	Prep Batch	Lot No
Data File /20060405I/y060405i1.d	Prep Date	SDG No
Analysis ID 89873	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 15:31	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAL
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	183586	56336	1.000	500.0	870.785664	174.16	870.785664	0.208
Naphthalene	16:01	9293	2699	1.000	20.00	25.309664	126.55	25.309664	0.155
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	20.00			ND	0.000000
2-Methylnaphthalene	18:04	5874	2381	1.000	20.00	25.953713	129.77	25.953713	0.190
2-Methylnaphthalene-d10	17:58	113163	46007	1.000	500.0	536.755080	107.35	536.755080	0.0889
1-Methylnaphthalene	18:24	5475	2208	1.000	20.00	28.074332	140.37	28.074332	0.239
1-Methylnaphthalene-d10	18:18	97509	36631	1.000	500.0	462.504980	92.50	462.504980	0.0889
1-Chloronaphthalene				1.000	20.00			ND	0.000000
2-Chloronaphthalene				1.000	20.00			ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:28	7189	3201	1.000	20.00	31.763916	158.82	31.763916	0.435
2,6-Dimethylnaphthalene	19:56	5138	1841	1.000	20.00	25.729108	128.65	25.729108	0.897
2,6-Dimethylnaphthalene-d1	19:48	99848	44591	1.000	500.0	473.599332	94.72	473.599332	0.208
C2-Alkylnaphthalenes				1.000		25.729108		25.729108	0.710
Acenaphthylene	20:49	7715	2738	1.000	20.00	24.767096	123.84	24.767096	0.0535
Acenaphthylene-d8	20:47	155751	70074	1.000	500.0	738.758609	147.75	738.758609	0.148
Acenaphthene-d10	21:17	105414	42166	1.000	500.0	500.000000	100.00	500.000000	0.237
Acenaphthene	21:22	4766	2049	1.000	20.00	15.300062	76.50	15.300062	0.285
2,3,5-Trimethylnaphthalene	22:29	4450	2089	1.000	20.00	22.283871	111.42	22.283871	0.0841
C3-Alkylnaphthalenes				1.000		22.283871		22.283871	0.0666
Fluorene-d-10				1.000	20.00			ND	0.0843
Fluorene-C13				1.000	20.00			ND	0.0506
Fluorene	22:53	5752	2502	1.000	20.00	17.709360	88.55	17.709360	0.101
Phenanthrene-d10	25:44	162400	74103	1.000	500.0	369.736267	73.95	369.736267	0.0791
Phenanthrene	25:48	7998	3789	1.000	20.00	24.624384	123.12	24.624384	0.101
Anthracene-d10	25:52	139780	50523	1.000	500.0	318.237287	63.65	318.237287	0.0791
Anthracene	25:57	6472	2665	1.000	20.00	19.926108	99.63	19.926108	0.101
1-Methylphenanthrene	27:41	5480	2372	1.000	20.00	16.871921	84.36	16.871921	0.135
Fluoranthene-d10	29:22	155977	72177	1.000	500.0	355.113015	71.02	355.113015	0.119
Fluoranthene	29:25	8478	3665	1.000	20.00	27.177084	135.89	27.177084	0.0693
Pyrene-d10	30:03	219616	94816	1.000	500.0	500.000000	100.00	500.000000	0.119
Pyrene	30:06	8983	3603	1.000	20.00	28.795912	143.98	28.795912	0.0693
Terphenyl-d14				1.000	20.00			ND	0.0346
Benzo(a)Anthracene-d12	33:38	112516	49349	1.000	500.0	256.165307	51.23	256.165307	0.0923
Benzo(a)anthracene	33:41	6541	2714	1.000	20.00	29.066977	145.33	29.066977	0.127
Chrysene-d12	33:45	116003	53173	1.000	500.0	264.104164	52.82	264.104164	0.0923
Chrysene	33:49	6779	3194	1.000	20.00	29.219072	146.10	29.219072	0.118
Benzo(b)Fluoranthene-d12	36:36	112318	48132	1.000	500.0	407.389138	81.48	407.389138	0.452
Benzo(k)Fluoranthene-d12	36:40	131291	47248	1.000	500.0	476.206194	95.24	476.206194	0.452
Benzo(b)fluoranthene	36:40	7814	3130	1.000	20.00	34.785164	173.93	34.785164	0.441
Benzo(k)fluoranthene	36:43	6083	2436	1.000	20.00	23.166097	115.83	23.166097	0.450
Benzo(e)pyrene-d12	37:24	137851	55278	1.000	500.0	500.000000	100.00	500.000000	0.452
Benzo(e)pyrene	37:28	6997	2625	1.000	20.00	35.709182	178.55	35.709182	0.602
Benzo(a)Pyrene-d12	37:34	97972	35314	1.000	500.0	355.354695	71.07	355.354695	0.452
Benzo(a)pyrene	37:37	5160	1890	1.000	20.00	26.334055	131.67	26.334055	0.602
Perylene-d12	37:47	117830	40249	1.000	500.0	427.381738	85.48	427.381738	0.452
Perylene	37:51	5457	1799	1.000	20.00	23.156242	115.78	23.156242	0.528
3-Methylcholanthrene				1.000	20.00			ND	1.15

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IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



IsoCalc

Workorder 3377:01_1	Prep Batch	Lot No
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Analysis ID 89873	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 15:31	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	41:06	55379	16074	1.000	500.0	200.865427	40.17	200.865427	0.158
Indeno(1,2,3-cd)pyrene-d12	41:10	105383	23782	1.000	500.0	382.235167	76.45	382.235167	0.204
Indeno(1,2,3-cd)pyrene	41:14	5616	1286	1.000	20.00	26.645664	133.23	26.645664	0.368
Dibenz (a,h) anthracene	41:13	4873	1272	1.000	20.00	43.996822	219.98	43.996822	0.389
Benzo(ghi)Perylene-d12	42:07	76760	18738	1.000	500.0	278.416551	55.68	278.416551	0.204
Benzo(ghi)perylene	42:14	5675	1491	1.000	20.00	36.965868	184.83	36.965868	0.467
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	20.00			ND	0.000000

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PAH's by LRMS Extended List

Workorder 3377:01_1	Prep Batch	Lot No
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Analysis ID 89873	Prep Exp Date	Date Received
Analysis Date 04/05/06 15:31	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	00:00	0	9293 ✓		2699		AVV		M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	18		7				
	Naphthalene-d8	15:58	00:00	0	183586 ✓		56336		ABV		M
142					142.0000		142.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene	18:04	00:00	0	5874 ✓		2381		AVB		M
	1-Methylnaphthalene	18:24	00:00	0	5475 ✓		2208		AVB		M
146					146.0000		146.0000				
	Noise	00:00	00:00	0	5		2				
152					152.0000		152.0000				
	Noise	00:00	00:00	0	8		3				
	2-Methylnaphthalene-d10	17:58	00:00	0	113163 ✓		46007		ABV		M
	1-Methylnaphthalene-d10	18:18	00:00	0	97509 ✓		36631		AVB		M
	Acenaphthylene	20:49	00:00	0	7715		2738		ABB		M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	40		16				
	Biphenyl	19:28	00:00	0	7189		3201		ABB		
	Acenaphthene	21:22	00:00	0	4766		2049		ABB		M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	80		32				
	2,6-Dimethylnaphthalene	19:56	00:00	0	5138		1841		MBB		
160					160.0000		160.0000				
	Noise	00:00	00:00	0	13		5				
	Acenaphthylene-d8	20:47	00:00	0	155751		70074		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	21:17	00:00	0	105414		42166		ABB		
166					166.0000		166.0000				
	Noise	00:00	00:00	0	15		6				
	Fluorene	22:53	00:00	0	5752		2502		ABB		M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	18		7				
	2,6-Dimethylnaphthalene	19:48	00:00	0	99848		44591		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	8		3				
	2,3,5-Trimethylnaphthal	22:29	00:00	0	4450		2089		ABB		M

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



PAH's by LRMS Extended List

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Data File /20060405I/y060405i1.d	Prep Date	SDG No
Analysis ID 89873	Prep Exp Date	Date Received
Analysis Date 04/05/06 15:31	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				
	Noise	00:00	00:00	0	8		3				
176					176.0000		176.0000				
	Noise	00:00	00:00	0	13		5				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene	25:48	00:00	0	7998		3789			ABV	M
	Anthracene	25:57	00:00	0	6472		2665			AVB	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene-d10	25:44	00:00	0	162400		74103			ABV	M
	Anthracene-d10	25:52	00:00	0	139780		50523			AVB	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	20		8				
	1-Methylphenanthrene	27:41	00:00	0	5480		2372			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	10		4				
	Fluoranthene	29:25	00:00	0	8478		3665			ABV	M
	Pyrene	30:06	00:00	0	8983		3603			ABB	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene-d10	29:22	00:00	0	155977		72177			ABV	
	Pyrene-d10	30:03	00:00	0	219616		94816			ABB	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	13		5				
	Benzo(a)anthracene	33:41	00:00	0	6541		2714			AVV	M
	Chrysene	33:49	00:00	0	6779		3194			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)Anthracene-d12	33:38	00:00	0	112516		49349			ABV	
	Chrysene-d12	33:45	00:00	0	116003		53173			AVV	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	43		17				
	Benzo(b)fluoranthene	36:40	00:00	0	7814		3130			AVV	M
	Benzo(k)fluoranthene	36:43	00:00	0	6083		2436			AVB	M
	Benzo(e)pyrene	37:28	00:00	0	6997		2625			AVV	M
	Benzo(a)pyrene	37:37	00:00	0	5160		1890			AVB	M
	Perylene	37:51	00:00	0	5457		1799			MBB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	50		20				
	Benzo(b)Fluoranthene-d1	36:36	00:00	0	112318		48132			ABV	M

Notes:
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Analyst JMN	Dilution Factor 1.00	Code YA1

View Small Peaks? False

View deleted peaks? False

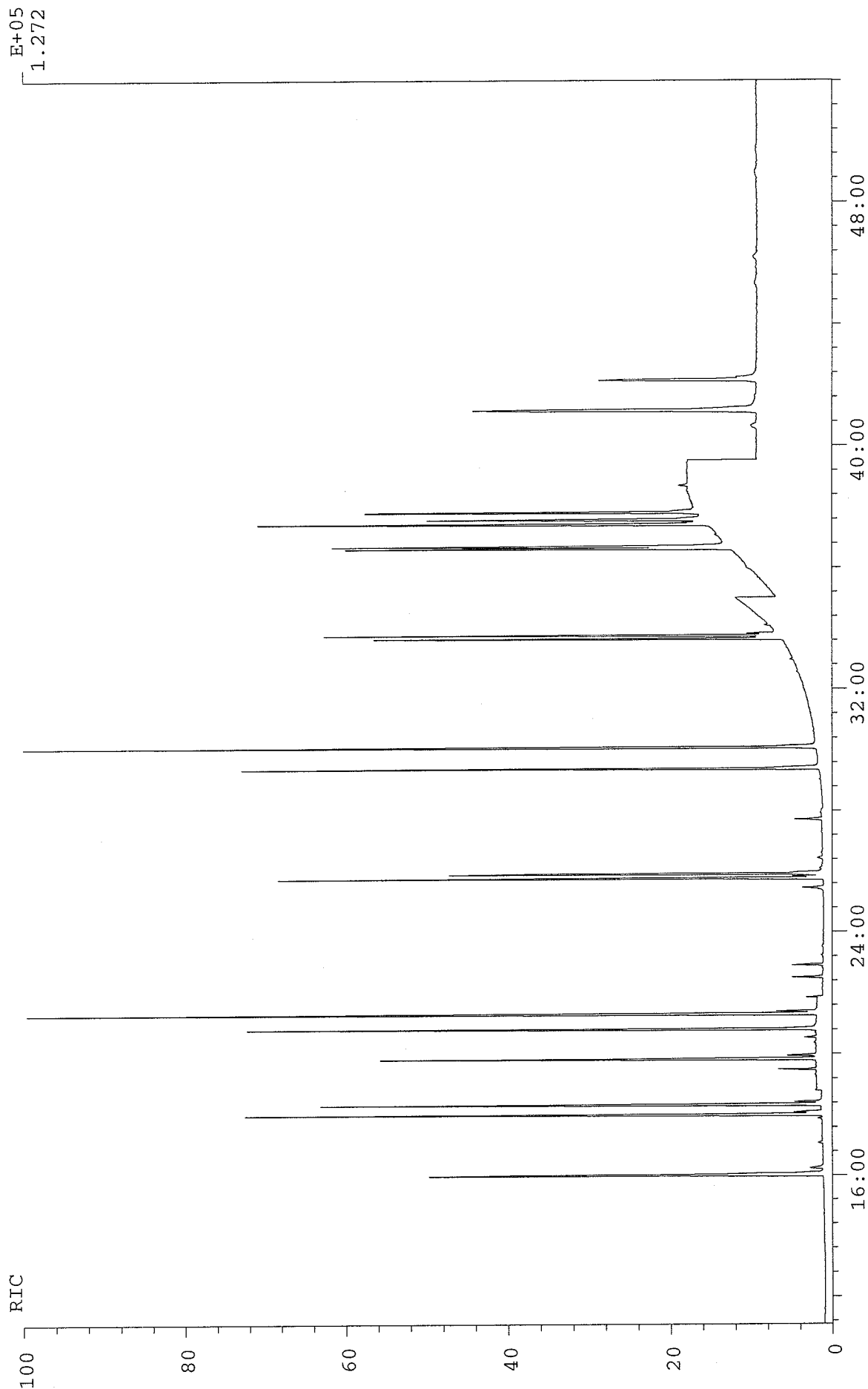
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Benzo(k)Fluoranthene-d1	36:40	00:00	0	131291		47248			AVB	M
	Benzo(e)pyrene-d12	37:24	00:00	0	137851		55278			ABV	M
	Benzo(a)Pyrene-d12	37:34	00:00	0	97972		35314			AVV	M
	Perylene-d12	37:47	00:00	0	117830		40249			AVB	M
268					268.0000		268.0000				
	Noise	00:00	00:00	0	93		37				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene	41:14	00:00	0	5616		1286			AVV	
	Benzo(ghi)perylene	42:14	00:00	0	5675		1491			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	13		5				
	Dibenz(a,h)anthracene	41:13	00:00	0	4873		1272			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	23		9				
	Indeno(1,2,3-cd)pyrene-	41:10	00:00	0	105383		23782			ABV	
	Benzo(ghi)Perylene-d12	42:07	00:00	0	76760		18738			ABV	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	18		7				
	Dibenz(ah)Anthracene-d1	41:06	00:00	0	55379		16074			ABV	
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

CHRO: y060405i1
 Samp: WO=3377:01_1 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1894 > 1902
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06
 Elapse: 49:20 1898
 Start : 15:31:00 2001
 Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : 0, 3.0

Int / Cali: 4/16/06
QC 5M1K 4/16/06



Data File: /var/chem/gcms/my.i/y060405i.b/dfy04053.d

Date : 05-APR-2006 14:10

Client ID: Tune

Instrument: my.i

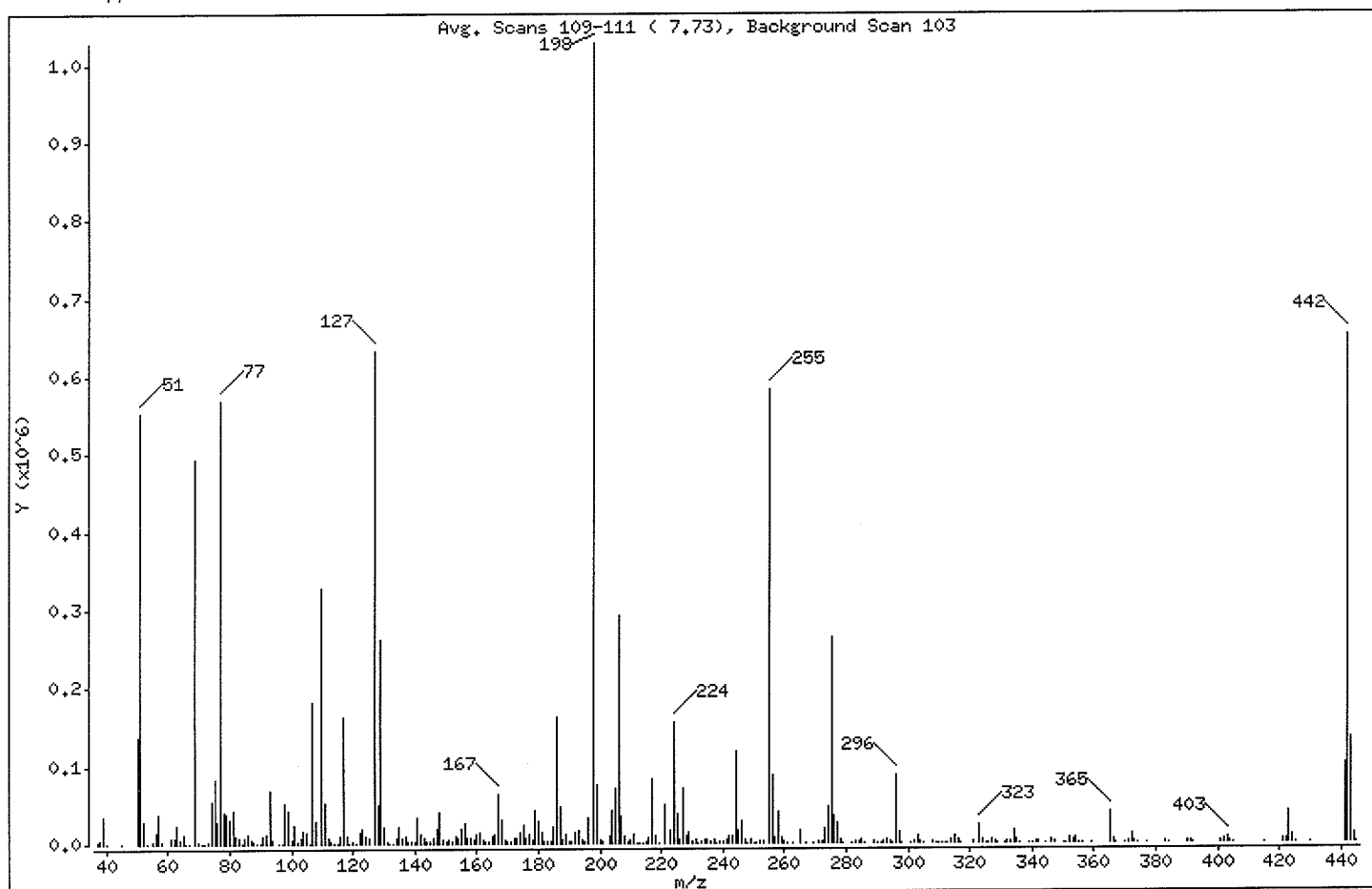
Sample Info: DFY04053

Operator:

Column phase: HP5-MS

Column diameter: 0.25

1 dfpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	53.68
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	48.11
70	Less than 2.00% of mass 69	0.23 (0.47)
127	25.00 - 75.00% of mass 198	61.61
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	7.26
275	10.00 - 30.00% of mass 198	25.74
365	Greater than 0.75% of mass 198	3.80
441	Present, but less than mass 443	9.92
442	40.00 - 110.00% of mass 198	63.55
443	15.00 - 24.00% of mass 442	13.06 (20.55)

Data File: /var/chem/gcms/my.i/y0604051.b/dfy04053.d

Date : 05-APR-2006 14:10

Client ID: Tune

Instrument: my.i

Sample Info: DFY04053

Operator:

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy04053.d

Spectrum: Avg. Scans 109-111 (7.73), Background Scan 103

Location of Maximum: 198.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y

37.00	1523	130.00	22104	210.00	4737	302.00	1645
38.00	4374	131.00	3486	211.00	11153	303.00	9790
39.00	36408	132.00	645	212.00	667	304.00	2361
40.00	453	133.00	36	213.00	1017	305.00	178
45.00	253	134.00	6622	214.00	252	308.00	1329

50.00	136768	135.00	20760	215.00	3480	309.00	820
51.00	551744	136.00	7511	216.00	6844	310.00	1107
52.00	29280	137.00	10533	217.00	82904	311.00	194
53.00	1032	138.00	2863	218.00	10568	312.00	196
55.00	2220	139.00	1668	219.00	752	313.00	771

56.00	15301	140.00	3461	221.00	49040	314.00	4339
57.00	37824	141.00	32976	223.00	15981	315.00	10415
58.00	1551	142.00	11428	224.00	157120	316.00	5438
61.00	7222	143.00	6702	225.00	38824	317.00	1050
62.00	7844	144.00	2235	226.00	4238	321.00	2617

63.00	22704	145.00	1873	227.00	70792	323.00	23840
64.00	3578	146.00	6474	228.00	8830	324.00	4382
65.00	10651	147.00	17728	229.00	14439	325.00	381
66.00	1090	148.00	39056	230.00	1528	326.00	638
67.00	774	149.00	5117	231.00	5884	327.00	4055

69.00	494528	150.00	1380	232.00	455	328.00	2356
70.00	2315	151.00	4550	233.00	1445	329.00	465
71.00	129	152.00	2793	234.00	5047	331.00	75
72.00	47	153.00	10094	235.00	4760	332.00	1710
73.00	1741	154.00	7602	236.00	3403	333.00	2434

74.00	54512	155.00	18672	237.00	4918	334.00	16281
75.00	82888	156.00	26192	238.00	795	335.00	4244
76.00	29272	157.00	6052	239.00	2632	336.00	244
77.00	569088	158.00	6280	240.00	2621	339.00	679
78.00	39872	159.00	4440	241.00	3923	340.00	191

79.00	37896	160.00	10796	242.00	8302	341.00	3030
80.00	29912	161.00	14670	243.00	8518	342.00	1231
81.00	41544	162.00	4949	244.00	117896	344.00	378
82.00	10536	163.00	1442	245.00	15537	346.00	5806
83.00	7372	164.00	2313	246.00	27544	347.00	1596

Data File: /var/chem/gcms/my.i/y060405i.b/dfy04053.d

Date : 05-APR-2006 14:10

Client ID: Tune

Instrument: my.i

Sample Info: DFY04053

Operator:

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy04053.d

Spectrum: Avg. Scans 109-111 (7.73), Background Scan 103

Location of Maximum: 198.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y

84.00	267	165.00	10259	247.00	5637	350.00	178
85.00	7179	166.00	11027	248.00	1124	351.00	214
86.00	11255	167.00	63704	249.00	3646	352.00	7648
87.00	5033	168.00	31440	250.00	747	353.00	4993
88.00	2070	169.00	4535	251.00	920	354.00	7523

89.00	713	170.00	2358	252.00	1815	355.00	1074
90.00	226	171.00	2677	253.00	1598	356.00	31
91.00	9346	172.00	6319	255.00	582784	359.00	754
92.00	11534	173.00	7663	256.00	88320	365.00	39088
93.00	68840	174.00	13917	257.00	6739	366.00	5435

94.00	5145	175.00	24080	258.00	40480	367.00	490
96.00	695	176.00	6494	259.00	6815	370.00	895
97.00	413	177.00	10961	260.00	1258	371.00	1871
98.00	51280	178.00	4106	261.00	1103	372.00	12668
99.00	41640	179.00	43600	263.00	185	373.00	3391

100.00	3598	180.00	29488	265.00	16367	374.00	638
101.00	23976	181.00	13996	267.00	66	377.00	757
102.00	1220	182.00	2619	269.00	276	383.00	3265
103.00	8094	183.00	1579	271.00	2016	384.00	1016
104.00	15844	184.00	3369	272.00	2444	390.00	1858

105.00	13562	185.00	21976	273.00	18032	391.00	1467
106.00	1060	186.00	163520	274.00	47704	392.00	884
107.00	181312	187.00	47400	275.00	264576	401.00	1369
108.00	28568	188.00	4944	276.00	35752	402.00	5274
110.00	327744	189.00	11202	277.00	26608	403.00	7050

111.00	51360	190.00	2199	278.00	4014	404.00	2562
112.00	7487	191.00	3000	279.00	1003	405.00	342
113.00	2508	192.00	14148	282.00	64	415.00	256
114.00	520	193.00	15761	283.00	2822	421.00	5701
115.00	436	194.00	3604	284.00	1976	422.00	5815

116.00	10579	195.00	1942	285.00	3792	423.00	40216
117.00	162688	196.00	33192	286.00	745	424.00	8832
118.00	10592	198.00	1027840	289.00	1452	425.00	1068
119.00	1086	199.00	74576	290.00	974	430.00	378
120.00	2241	200.00	4541	291.00	736	441.00	101928

Data File: /var/chem/gcms/my.i/y0604051.b/dfy04053.d

Date : 05-APR-2006 14:10

Client ID: Tune

Instrument: my.i

Sample Info: DFY04053

Operator:

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy04053.d

Spectrum: Avg. Scans 109-111 (7.73), Background Scan 103

Location of Maximum: 198.00

Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
121.00	750	201.00	3399	292.00	1337	442.00	653184
122.00	13209	203.00	8362	293.00	5883	443.00	134208
123.00	19304	204.00	41464	294.00	1335	444.00	12150
124.00	9321	205.00	71168	295.00	359	445.00	494
125.00	7100	206.00	293440	296.00	87664		
127.00	633216	207.00	36312	297.00	13019		
128.00	50496	208.00	10212	298.00	1066		
129.00	262208	209.00	2175	301.00	1172		

Data File: /var/chem/gcms/my.i/y060405i.b/dfy04053.d

Date : 05-APR-2006 14:10

Client ID: Tune

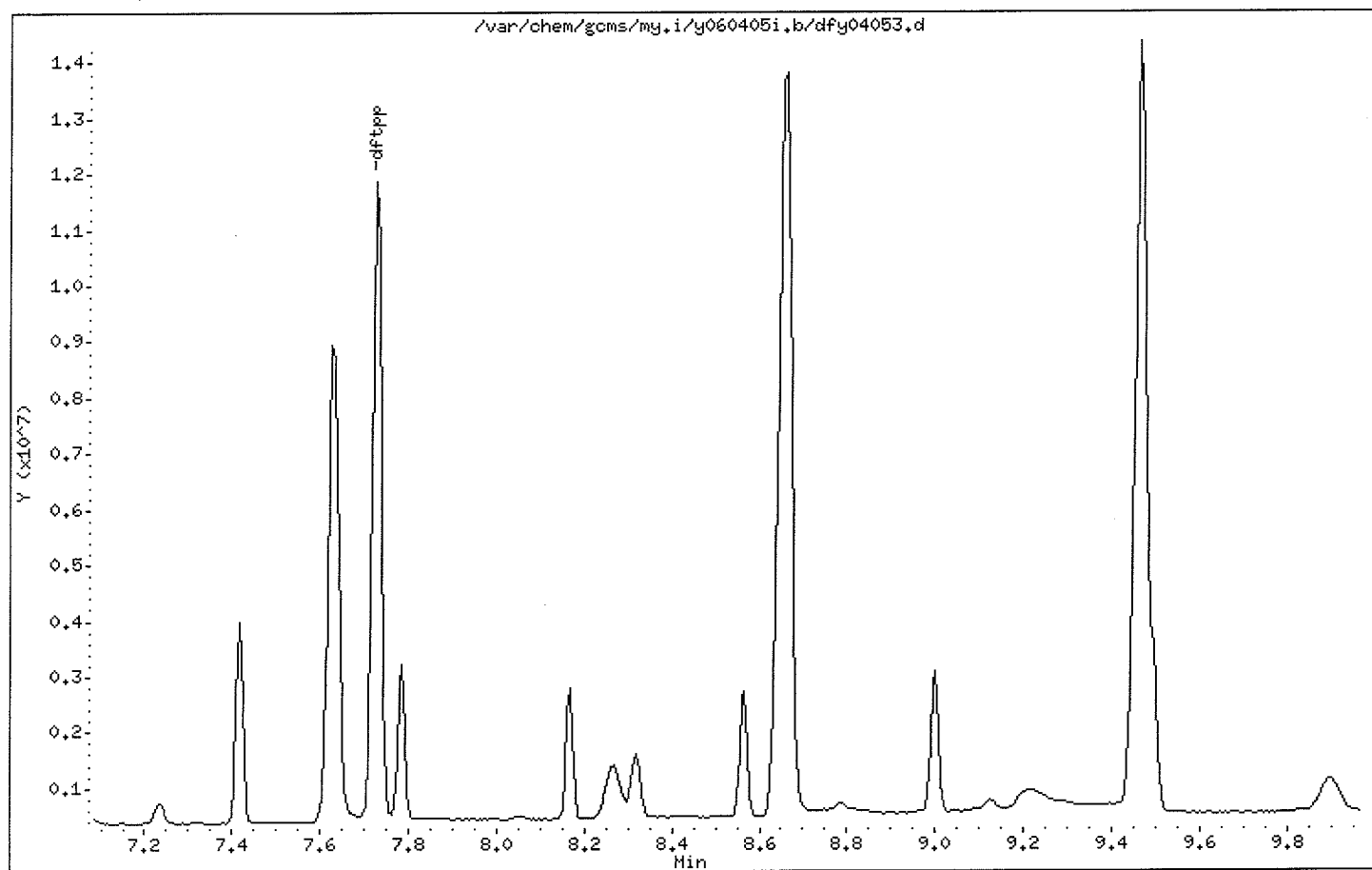
Instrument: my.i

Sample Info: DFY04053

Operator:

Column phase: HP5-MS

Column diameter: 0.25

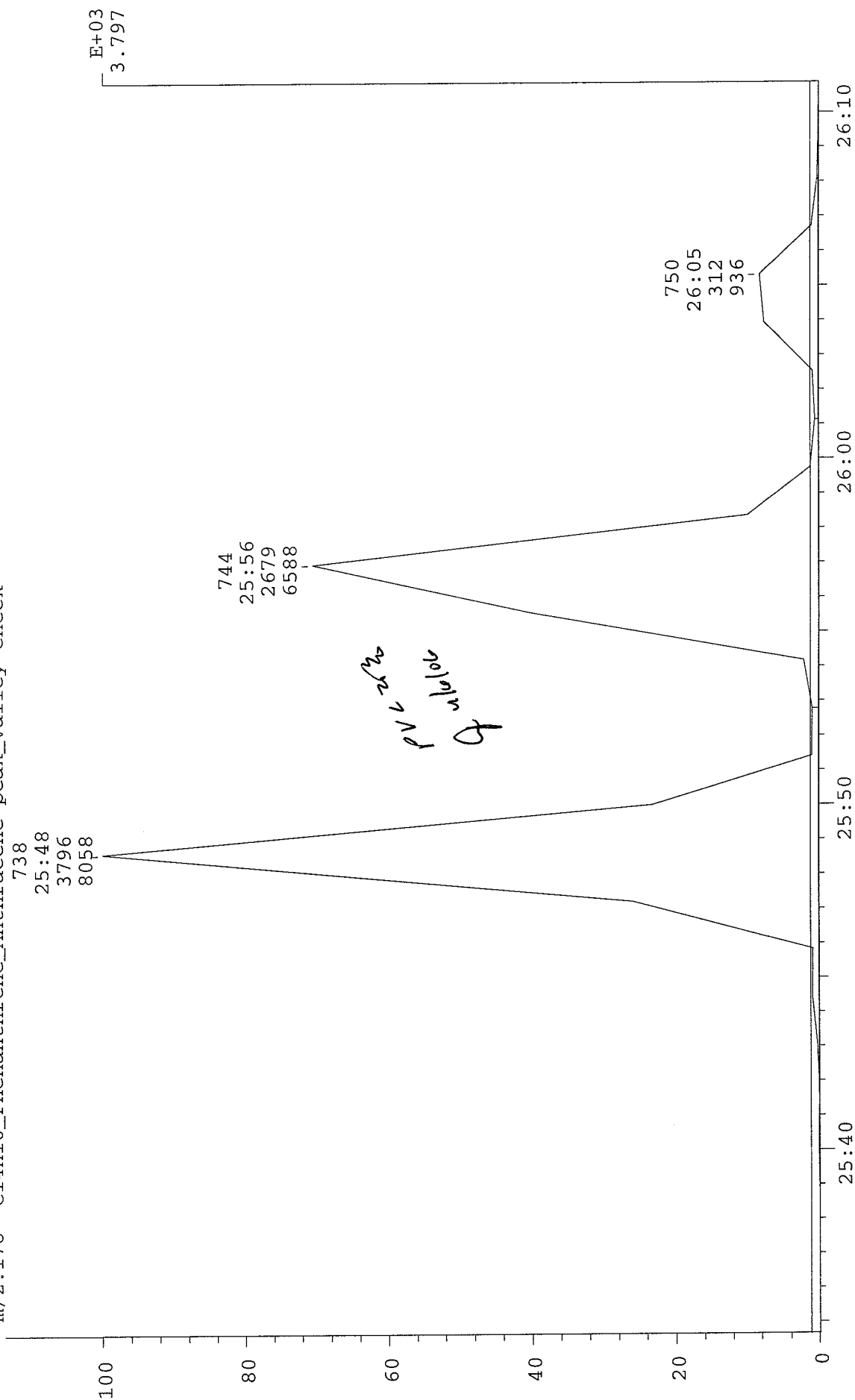


CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 728 > 754
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 25:40.2 732
Start : 15:31:00 2001

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"



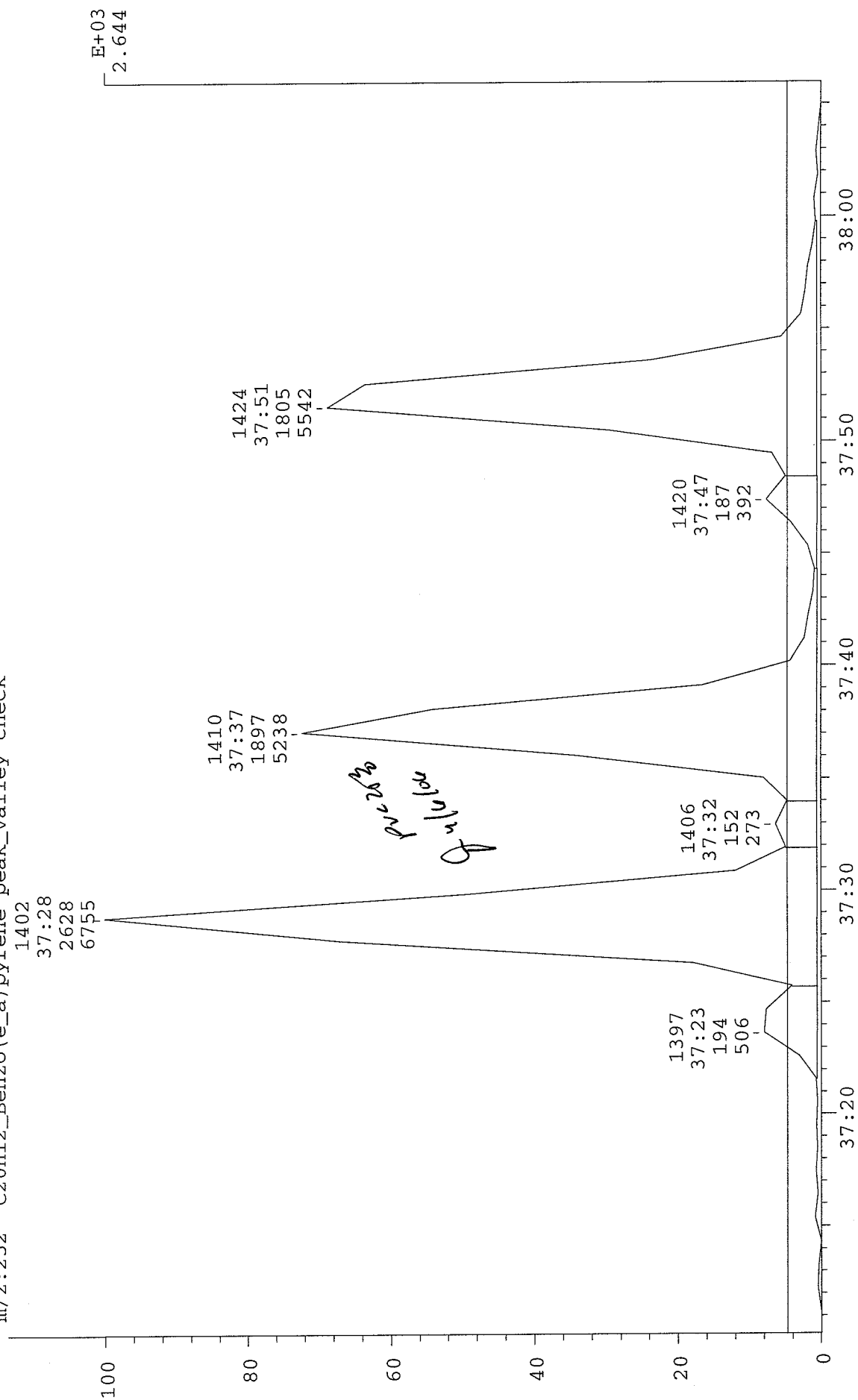
CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 1384 > 1438
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

Elapse: 25:40.2 732
Start : 15:31:00 2001

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

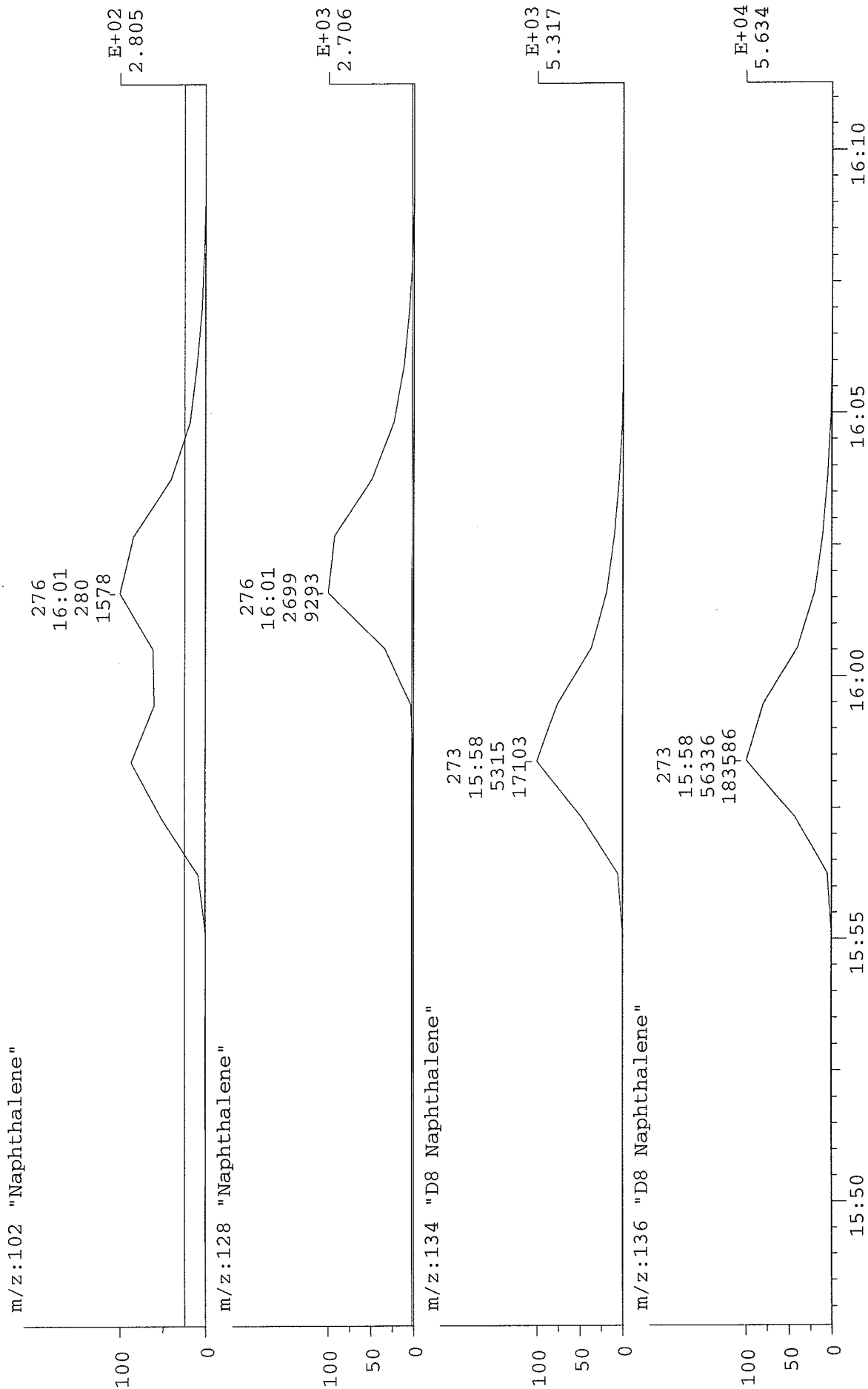
05-APR-06
1402
37:28
2628
6755

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 263 > 285
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 22:46.2 607
Start : 15:31:00 2001
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

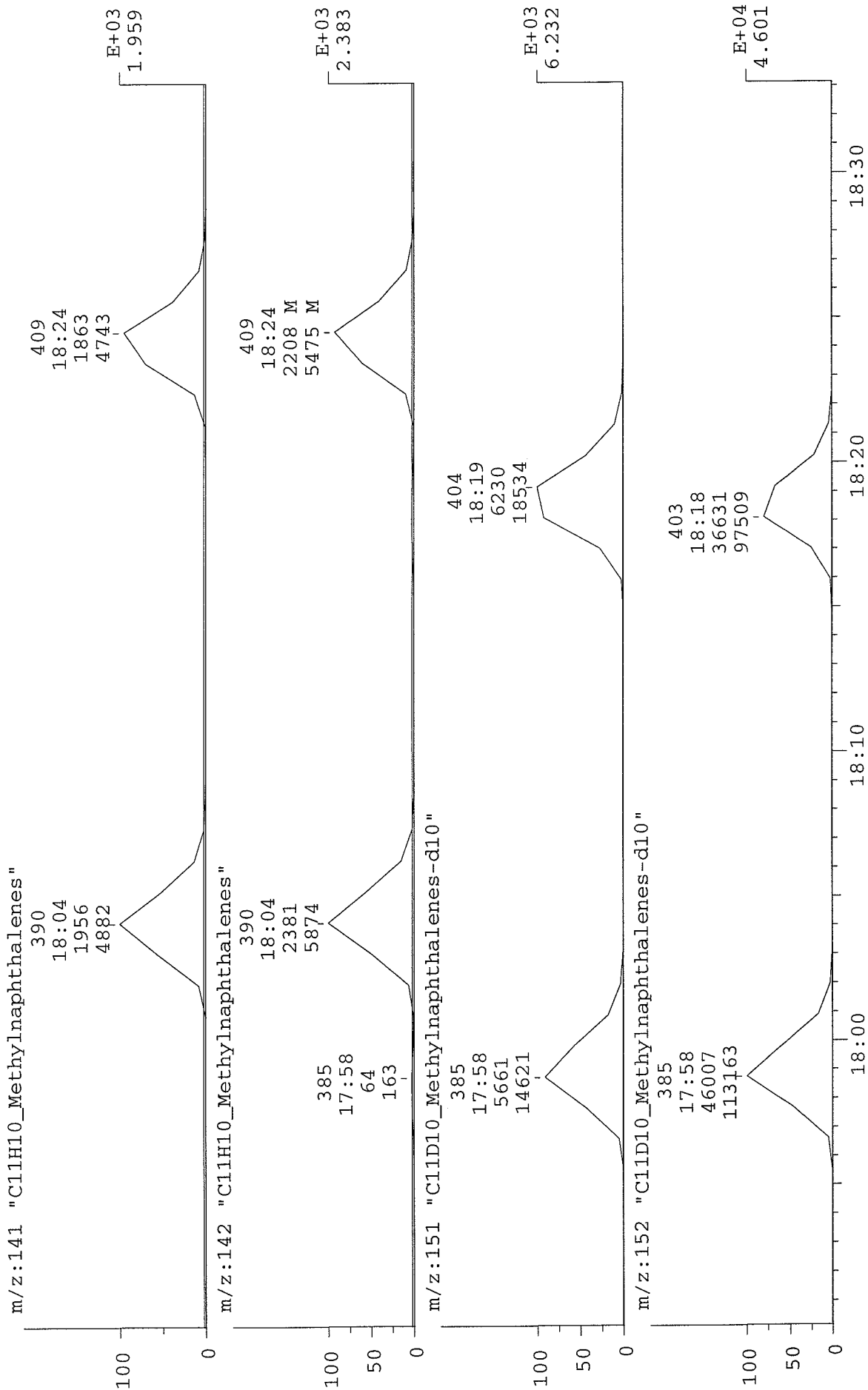


CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 377 > 417
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 25:40.2 732
Start : 15:31:00 2001

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

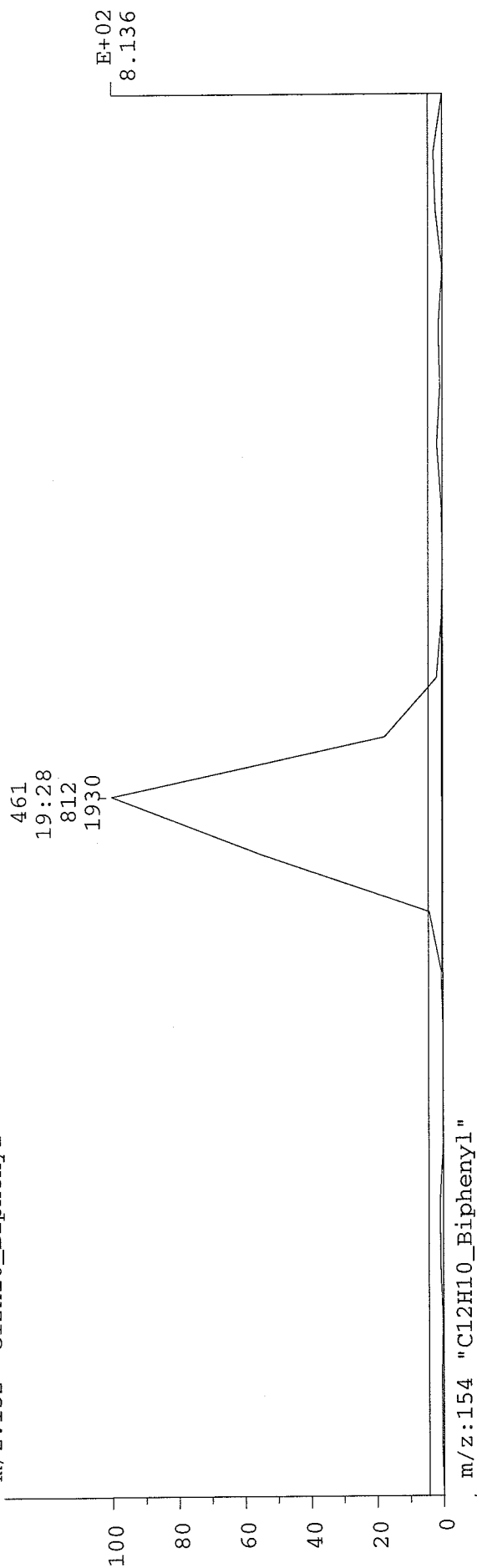
05-APR-06



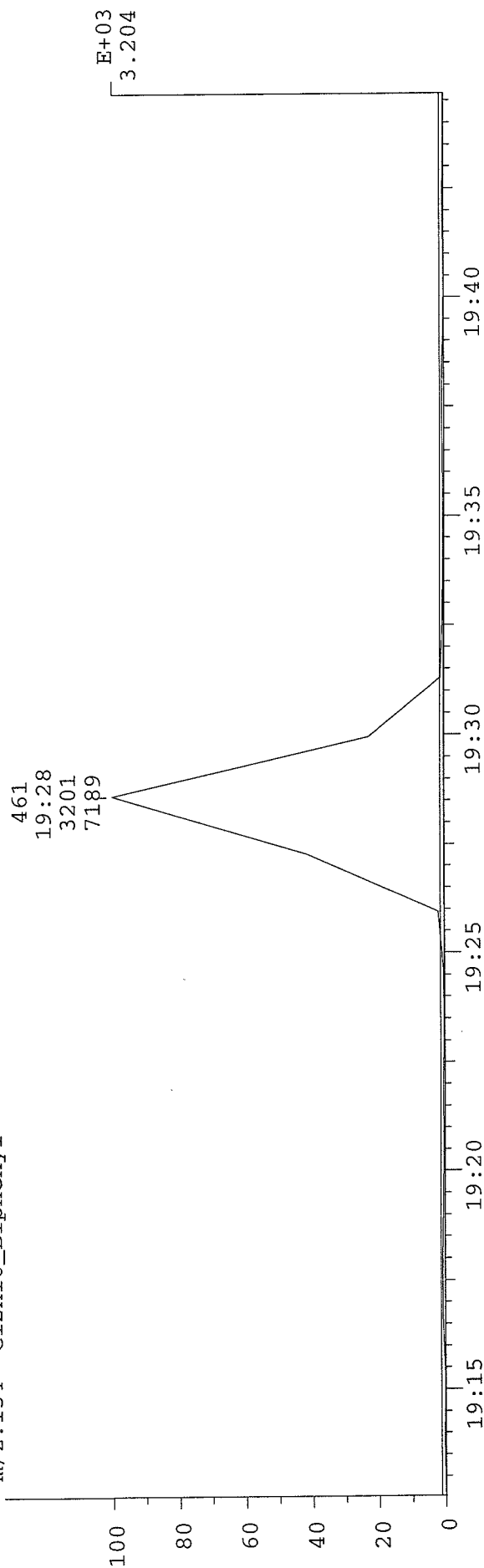
CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 449 > 473
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 25:40.2 732
Start : 15:31:00 2001
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:152 "C12H10_Biphenyl"



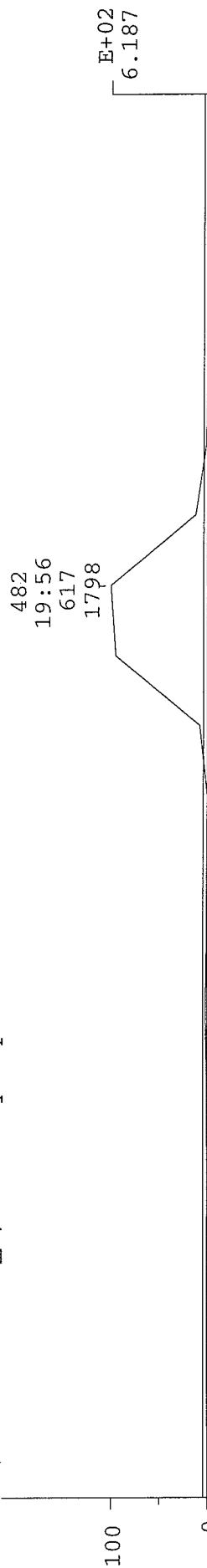
m/z:154 "C12H10_Biphenyl"



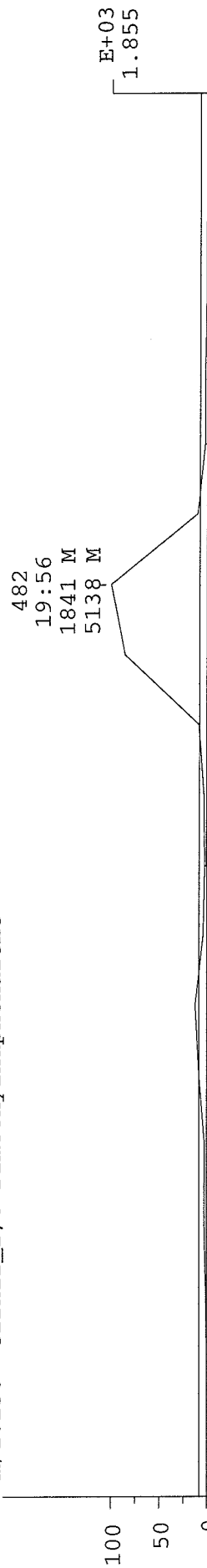
CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 469 > 489
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 25:40.2 732
Start : 15:31:00 2001
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



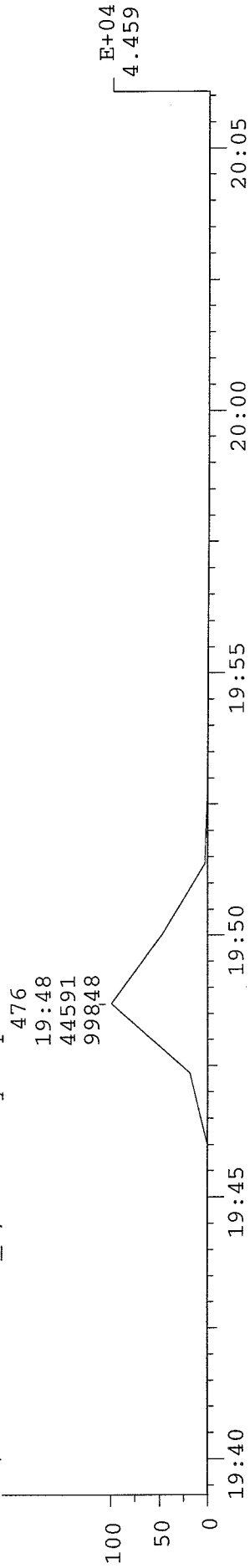
m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"



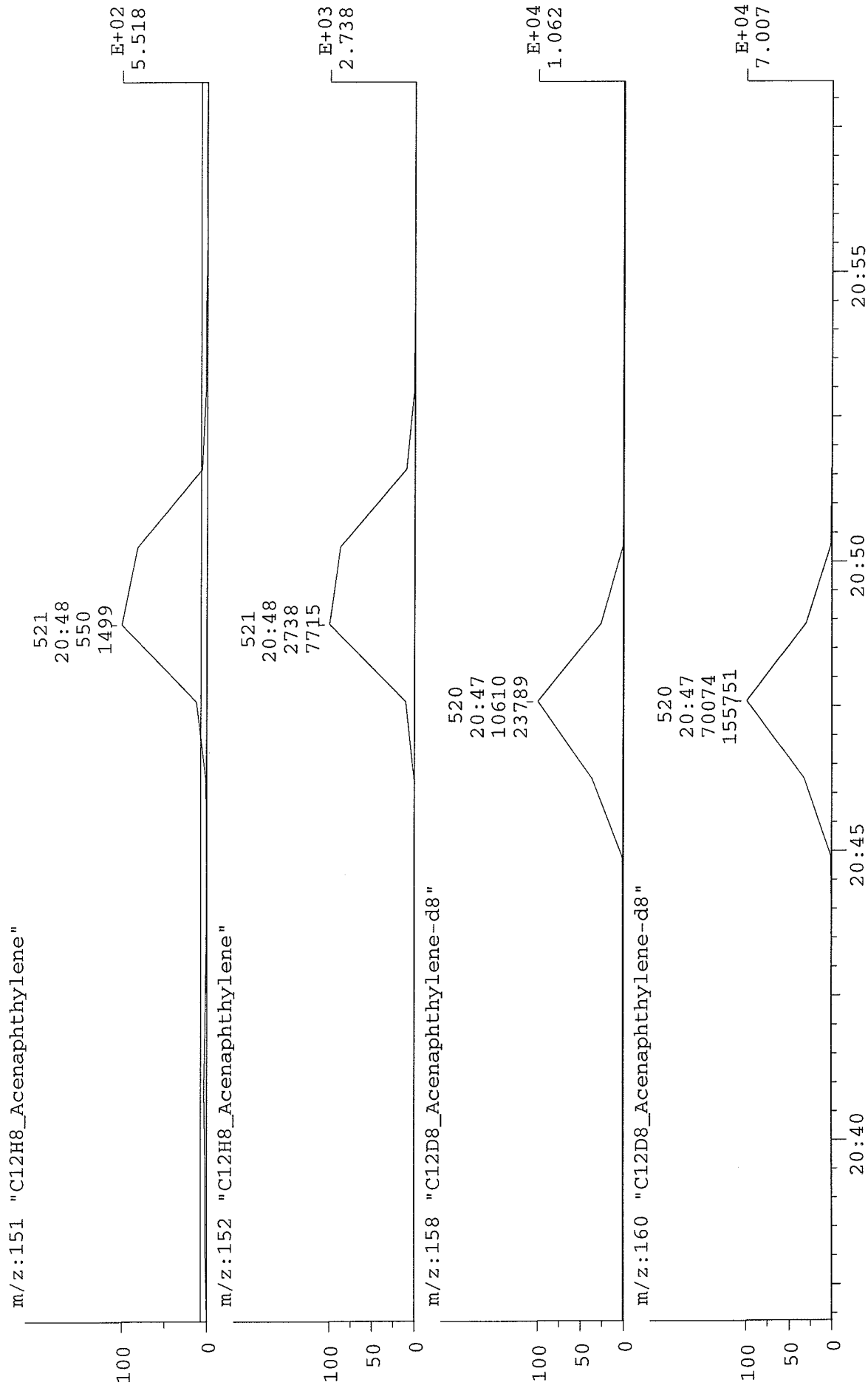
m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



```

CHRO:      Y060405i1
Samp:      WO=3377:01_1 Meth=YAl Dil=1
Comm:      Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode:      EI +VE + LMR (LIN) UP LR NETCDF
Oper:      JMN Client: STL Knoxville
Peak:      100.00 ppm Label wndw: 512 > 528
Area:      5, 0.50, 15 Baseline : 100, 3
Disp:      Height Area

```



CHRO: Y060405i1
Samp: W0=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 537 > 551
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 25:40.2 732
Start : 15:31:00 2001
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:153 "C12H10_Acenaphthene"



m/z:154 "C12H10_Acenaphthene"



m/z:163 "C12D10_Acenaphthene"



m/z:164 "C12D10_Acenaphthene"



21:15 21:20 21:25

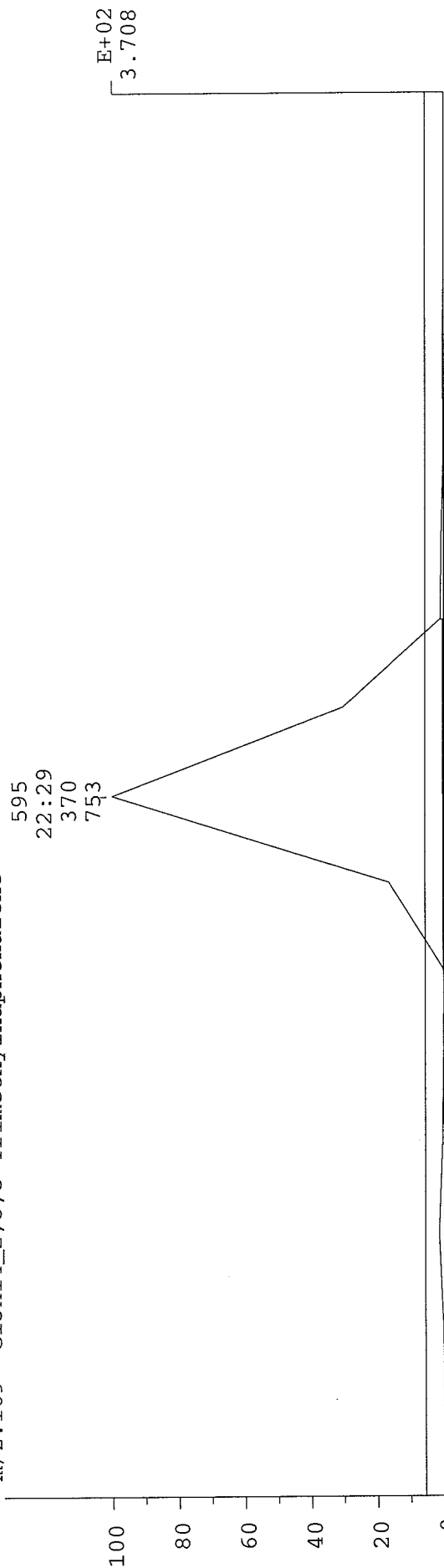
CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 587 > 603
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06

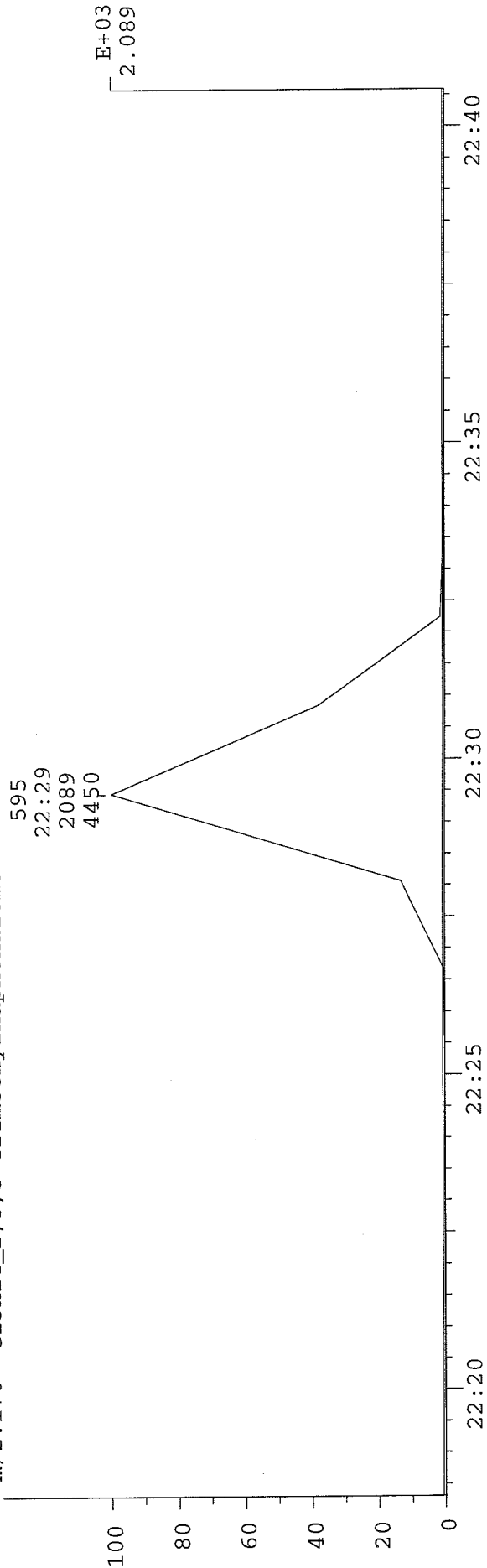
Elapse: 25:40.2 732
Start : 15:31:00 2001

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"

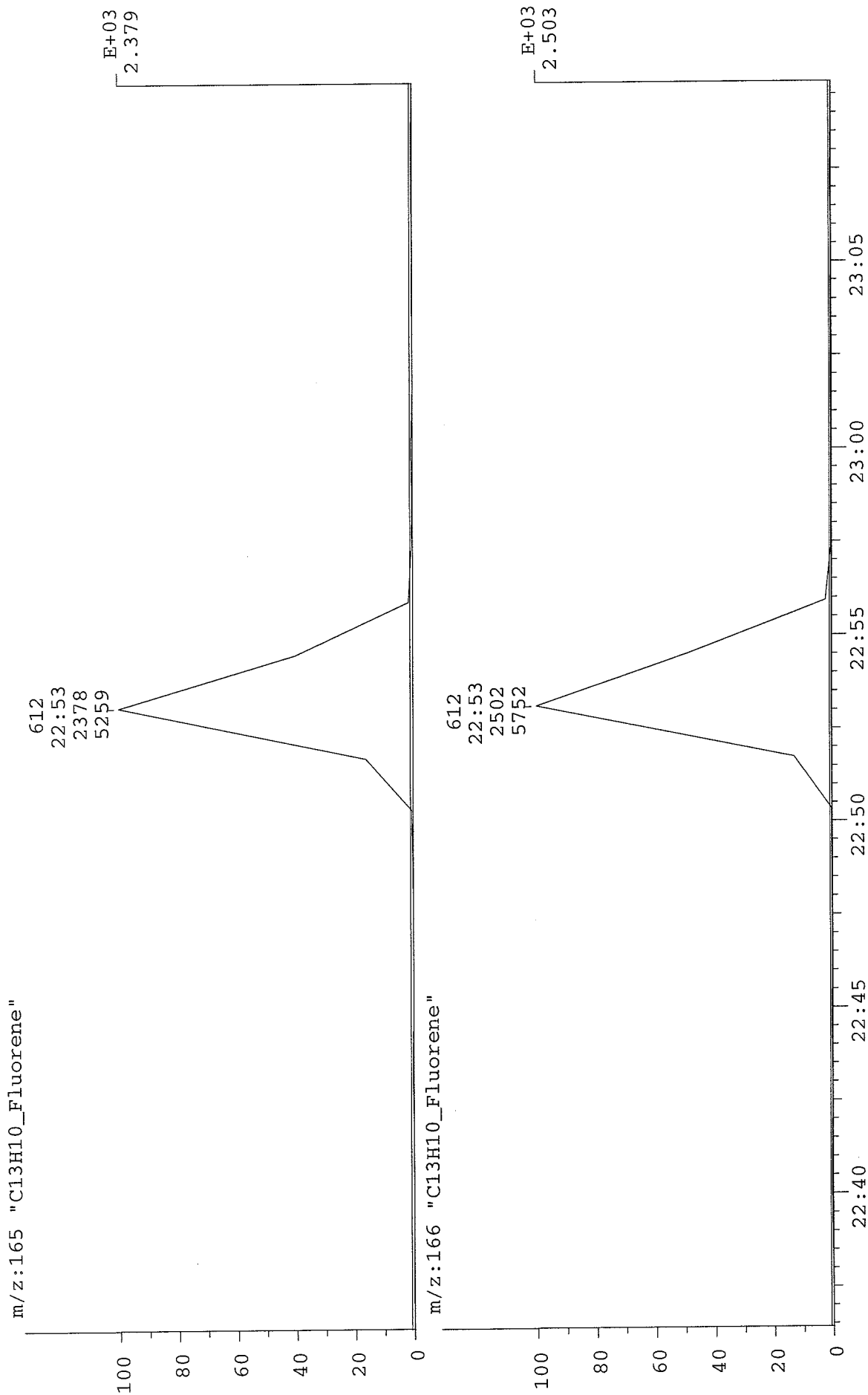


m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"



CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 600 > 624
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 25:40.2 732
Start : 15:31:00 2001
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

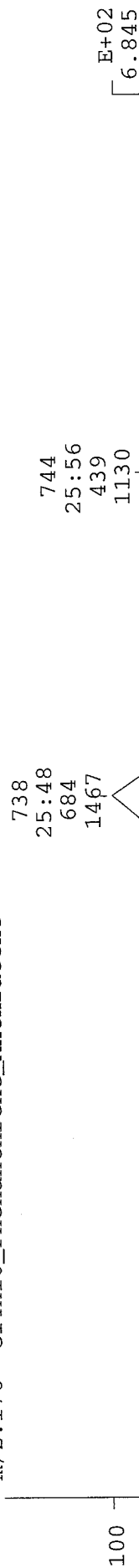


CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wmdw: 725 > 751
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

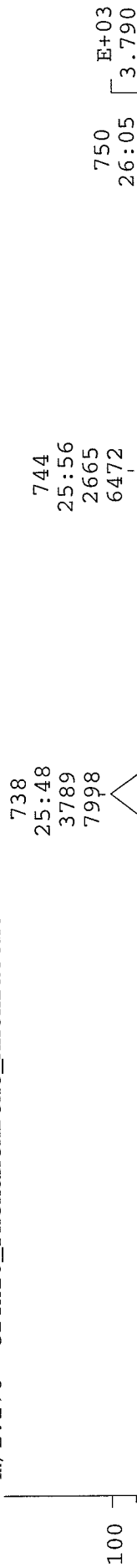
05-APR-06 Elapse: 25:40.2 732
Start : 15:31:00 2001

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:176 "C14H10_Phenanthrene_Anthracene"



m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



m/z:188 "C14D10_Phenanthrene_Anthracene-d10"

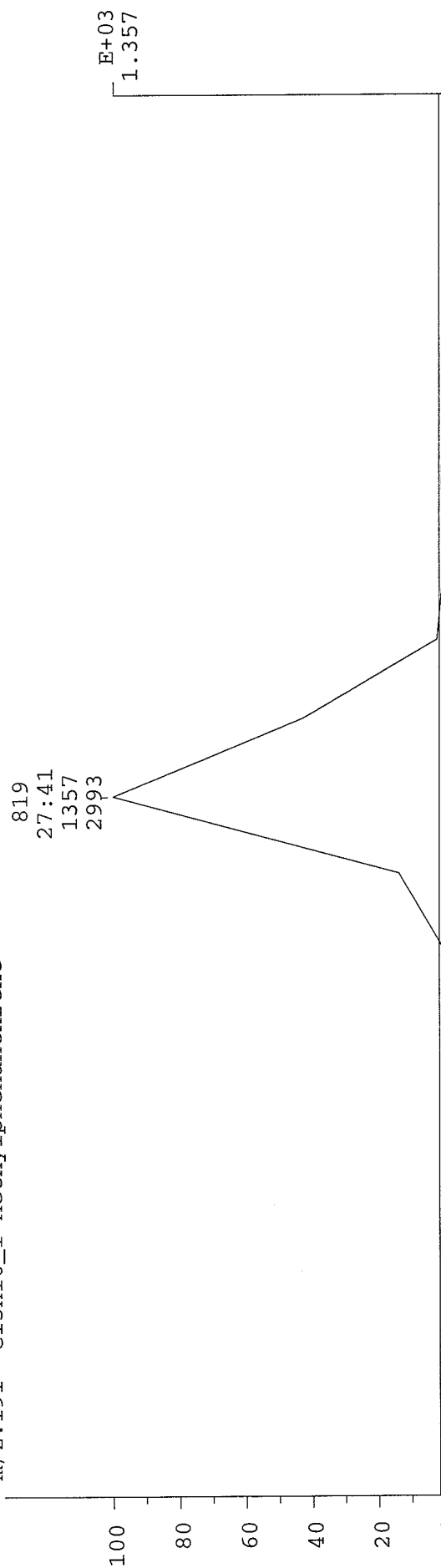


25:40 25:50 26:00

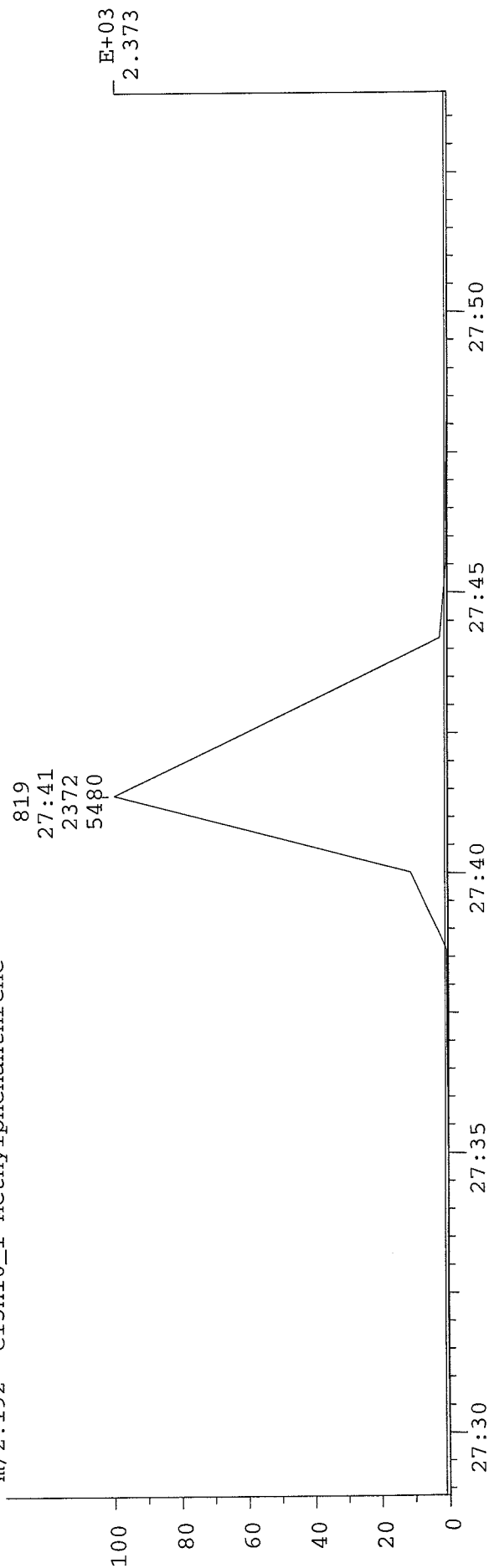
CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 810 > 828
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 25:40.2 732
Start : 15:31:00 2001
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Y060405i1

Samp: WO=3377:01_1 Meth=YA1 Dil=1

Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD

Mode: EI +VE + LMR (LIN) UP LR NETCDF

Oper: JMN Client: STL Knoxville

Peak: 100.00 ppm Label wndw: 904 > 971

Area: 5, 0.50, 15 Baseline : 100, 3

Disp: Height Area

05-APR-06

Elapse: 25:40.2

Start : 15:31:00

Study : 3377:01 Initial Cali

Inlet :

Masses: 0 > 308

Label : -2, 3.0

m/z:200 "C16H10_Fluoranthene_Pyrene"



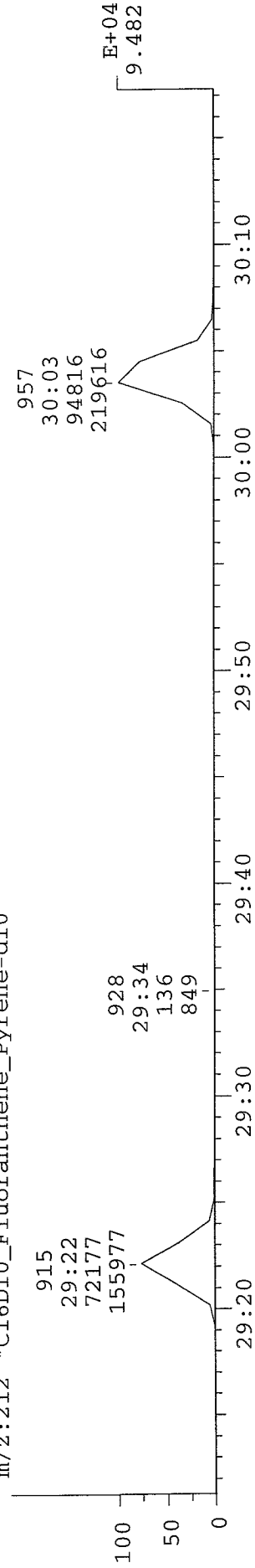
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 " " C16D10_Fluoranthene_Pyrene-d10



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



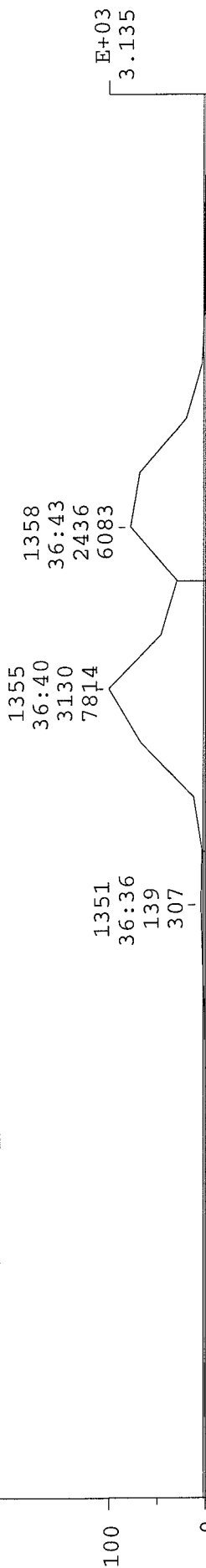
CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1340 > 1366
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06

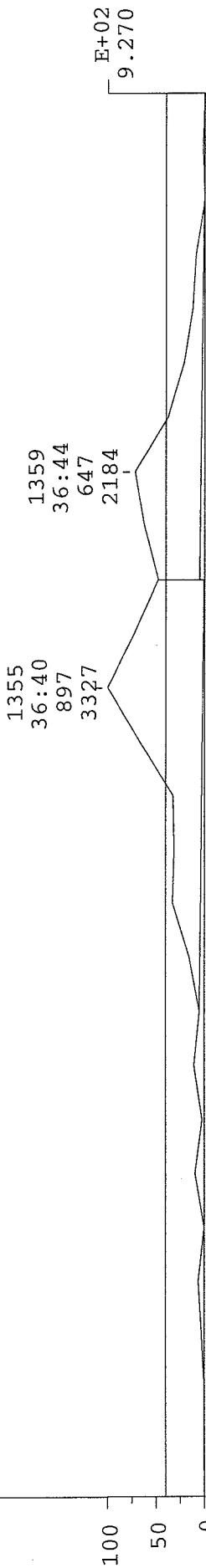
Elapse: 25:40.2 732
Start : 15:31:00 2001

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

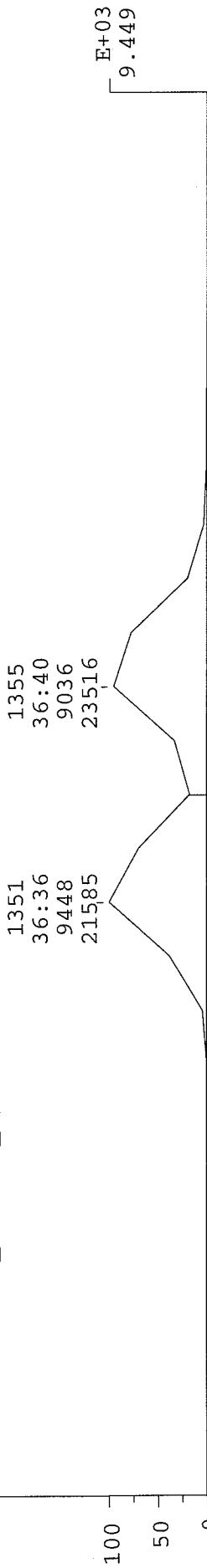
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



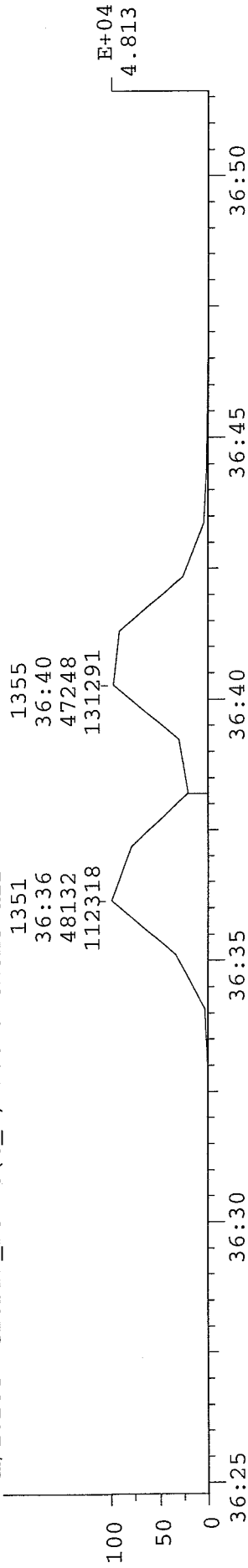
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



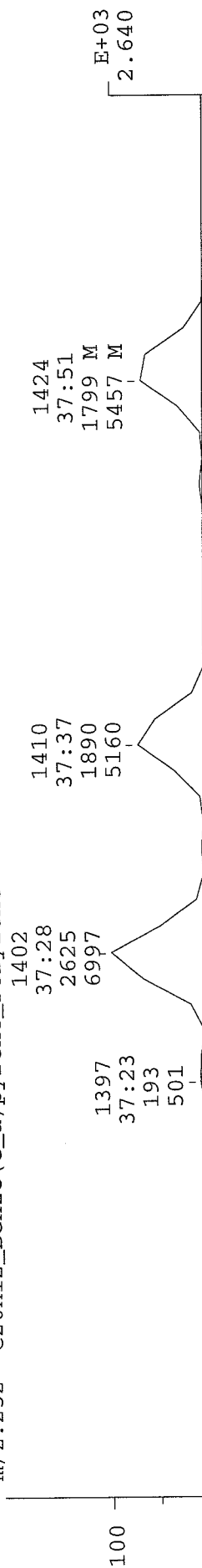
m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



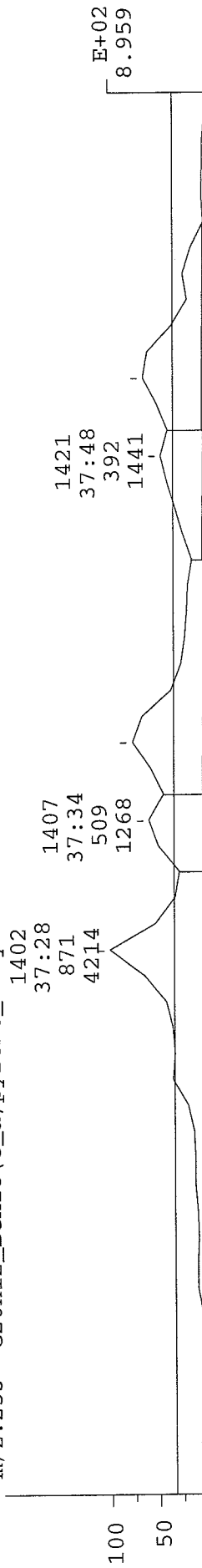
CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 1381 > 1435
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 25:40.2 732
Start : 15:31:00 2001
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

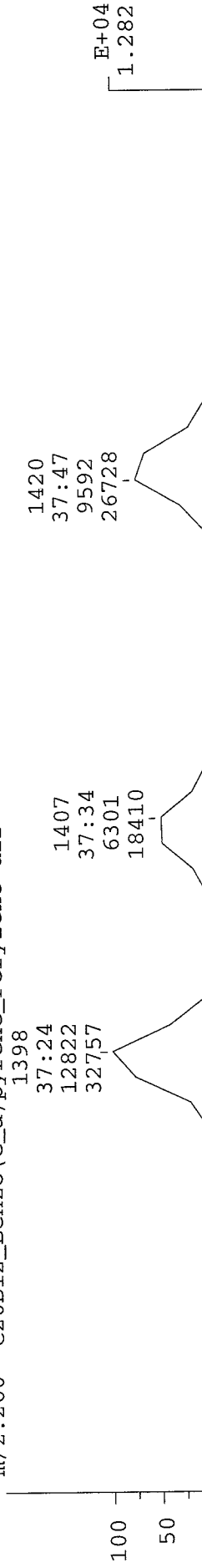
m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



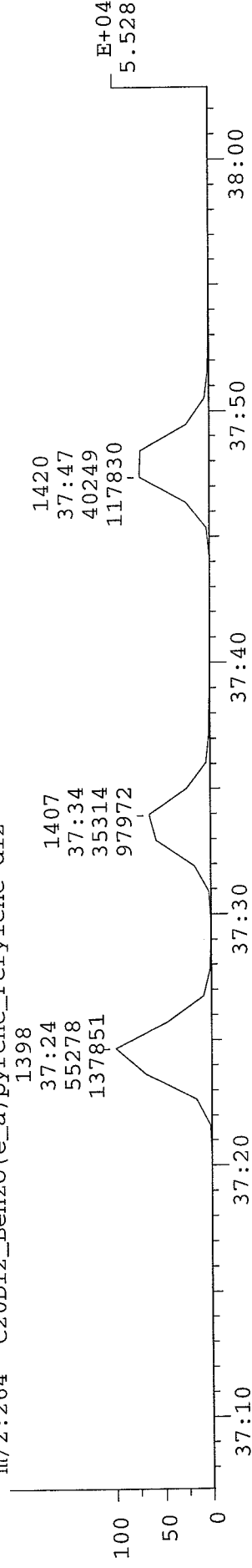
m/z:253 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



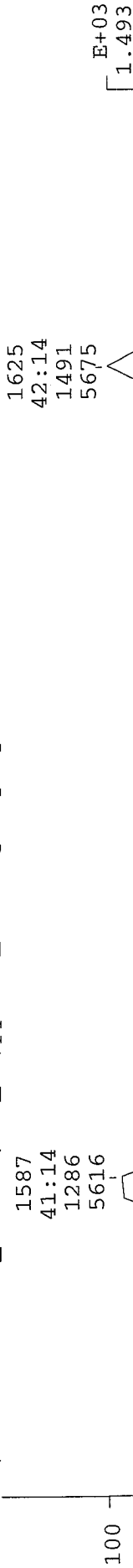
CHRO: y060405i1
 Samp: WO=3377:01_1 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1572 > 1638
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06 Elapse: 25:40.2 732
 Start : 15:31:00 2001
 Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



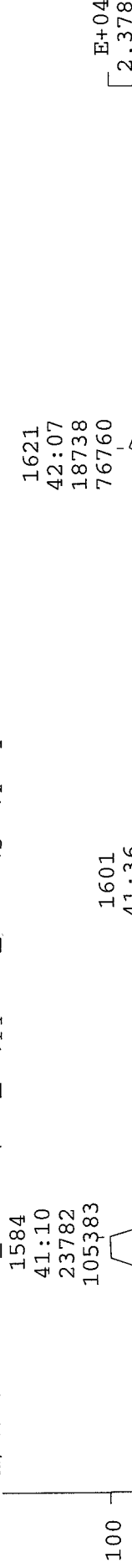
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



41:00

41:30

42:00

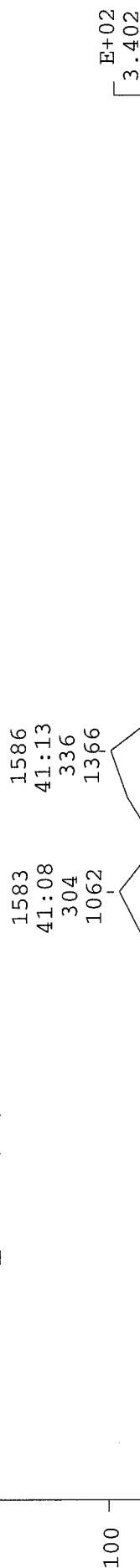
42:30

CHRO: Y060405i1
Samp: WO=3377:01_1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1570 > 1600
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

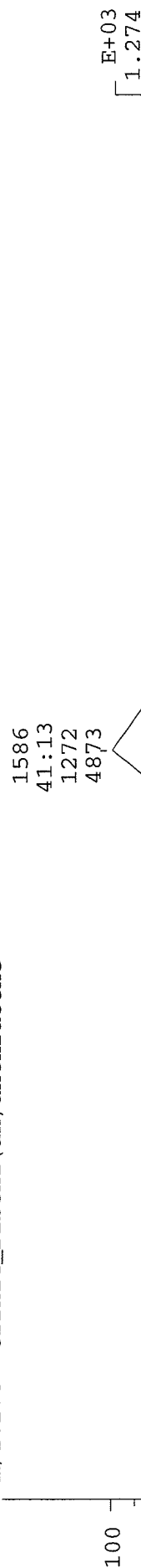
05-APR-06 Elapse: 25:40.2 732
Start : 15:31:00 2001

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

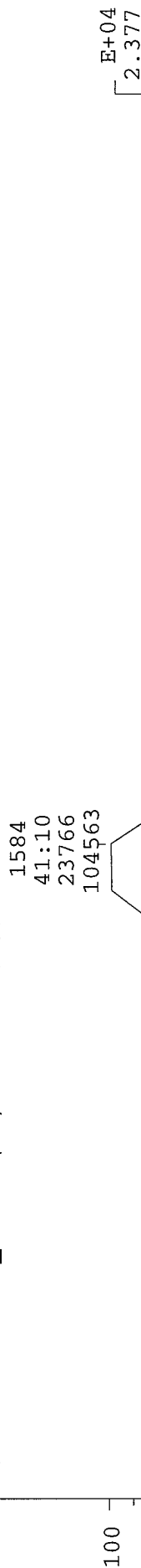
m/z:139 "C22H14_Dibenz(ah)anthracene"



m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: Y60405I1.D
 Date Acquired: 5 Apr 2006 3:31 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060405I1
 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 Wed Apr 05 18:33:21 2006
 d:\cdf\files\Y60405I1.CDF Translated at Wed Apr 05 18:33:21 2006 Elapsed: 0 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 5 13:00:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60405i1.dat
 NetCDF File (input): /usr/users/hp/data/y60405i1.cdf

Number of Scans: 2001

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

Processed 10% of the scans (1 - 200)
 Processed 20% of the scans (201 - 400)
 Processed 30% of the scans (401 - 600)
 Processed 40% of the scans (601 - 800)
 Processed 50% of the scans (801 - 1000)
 Processed 60% of the scans (1001 - 1200)
 Processed 70% of the scans (1201 - 1400)
 Processed 80% of the scans (1401 - 1600)
 Processed 90% of the scans (1601 - 1800)

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

Finished converting the netCDF file!
 ICIS cdf2dat - Finished Conversion: Wed Apr 5 13:00:02 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



Workorder 3377:01_2	Prep Batch	Lot No
Data File /20060405I/y060405i2.d	Prep Date	SDG No
Analysis ID 89874	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 16:43	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAL
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	180483	58260	1.000	500.0	881.910579	176.38	881.910579	0.450
Naphthalene	16:01	43358	13806	1.000	100.0	120.116576	120.12	120.116576	0.150
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	100.0			ND	0.000000
2-Methylnaphthalene	18:04	28448	11097	1.000	100.0	124.694269	124.69	124.694269	0.194
2-Methylnaphthalene-d10	17:59	114071	44988	1.000	500.0	557.395553	111.48	557.395553	0.185
1-Methylnaphthalene	18:24	26502	9504	1.000	100.0	133.500574	133.50	133.500574	0.218
1-Methylnaphthalene-d10	18:18	99258	40085	1.000	500.0	485.013438	97.00	485.013438	0.185
1-Chloronaphthalene				1.000	100.0			ND	0.000000
2-Chloronaphthalene				1.000	100.0			ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:27	34176	12395	1.000	100.0	149.801439	149.80	149.801439	0.778
2,6-Dimethylnaphthalene	19:56	24167	10864	1.000	100.0	120.913594	120.91	120.913594	1.34
2,6-Dimethylnaphthalene-d1	19:49	99935	43005	1.000	500.0	488.321525	97.66	488.321525	0.238
C2 Alkyl naphthalenes				1.000		120.913594		120.913594	0.997
Acenaphthylene	20:49	37620	16754	1.000	100.0	118.999418	119.00	118.999418	0.154
Acenaphthylene-d8	20:48	158068	56900	1.000	500.0	772.382116	154.48	772.382116	0.132
Acenaphthene-d10	21:17	102325	47219	1.000	500.0	500.000000	100.00	500.000000	0.159
Acenaphthene	21:23	23470	10445	1.000	100.0	74.240200	74.24	74.240200	0.615
2,3,5-Trimethylnaphthalene	22:30	21608	9845	1.000	100.0	108.110272	108.11	108.110272	0.116
C3 Alkyl naphthalenes				1.000		108.110272		108.110272	0.0858
Fluorene-d10				1.000	100.0			ND	0.0903
Fluorene-C13				1.000	100.0			ND	0.0723
Fluorene	22:53	28152	12910	1.000	100.0	88.003051	88.00	88.003051	0.145
Phenanthrene-d10	25:45	159949	69184	1.000	500.0	374.965422	74.99	374.965422	0.0647
Phenanthrene	25:49	37463	13702	1.000	100.0	117.109204	117.11	117.109204	0.108
Anthracene-d10	25:53	133928	62635	1.000	500.0	313.964883	62.79	313.964883	0.0647
Anthracene	25:56	31021	12366	1.000	100.0	96.971535	96.97	96.971535	0.108
1-Methylphenanthrene	27:42	25990	12119	1.000	100.0	81.244647	81.24	81.244647	0.163
Fluoranthene-d10	29:22	153989	70181	1.000	500.0	360.993506	72.20	360.993506	0.103
Fluoranthene	29:25	38310	17111	1.000	100.0	124.392002	124.39	124.392002	0.0891
Pyrene-d10	30:03	213285	96644	1.000	500.0	500.000000	100.00	500.000000	0.103
Pyrene	30:06	39242	17140	1.000	100.0	127.418192	127.42	127.418192	0.0891
Terphenyl-d14				1.000	100.0			ND	0.0534
Benzo(a)Anthracene-d12	33:37	107855	43458	1.000	500.0	252.842441	50.57	252.842441	0.0905
Benzo(a)anthracene	33:41	28620	12935	1.000	100.0	132.678133	132.68	132.678133	0.173
Chrysene-d12	33:45	113811	46601	1.000	500.0	266.804979	53.36	266.804979	0.0905
Chrysene	33:49	29346	13709	1.000	100.0	128.924269	128.92	128.924269	0.161
Benzo(b)Fluoranthene-d12	36:36	106994	46787	1.000	500.0	419.577732	83.92	419.577732	0.521
Benzo(k)Fluoranthene-d12	36:40	123615	47786	1.000	500.0	484.757102	96.95	484.757102	0.521
Benzo(b)fluoranthene	36:40	32328	12433	1.000	100.0	151.073892	151.07	151.073892	0.641
Benzo(k)fluoranthene	36:43	25137	10780	1.000	100.0	101.674554	101.67	101.674554	0.628
Benzo(e)pyrene-d12	37:24	127502	47953	1.000	500.0	500.000000	100.00	500.000000	0.521
Benzo(e)pyrene	37:28	28058	10446	1.000	100.0	153.547271	153.55	153.547271	0.948
Benzo(a)Pyrene-d12	37:33	91366	31633	1.000	500.0	358.292419	71.66	358.292419	0.521
Benzo(a)pyrene	37:37	22113	8414	1.000	100.0	121.013287	121.01	121.013287	0.948
Perylene-d12	37:47	110993	39750	1.000	500.0	435.259839	87.05	435.259839	0.521
Perylene	37:51	23876	8419	1.000	100.0	107.556332	107.56	107.556332	0.755
3-Methylcholanthrene				1.000	100.0			ND	0.755

unc 4/11/06

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STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



IsoCalc

Workorder 3377:01_2	Prep Batch	Lot No
Data File /20060405I/y060405i2.d	Prep Date	SDG No
Analysis ID 89874	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 16:43	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	41:07	50121	14657	1.000	500.0	196.549858	39.31	196.549858	0.235
Indeno(1,2,3-cd)pyrene-d12	41:08	96629	22654	1.000	500.0	378.931311	75.79	378.931311	0.209
Indeno(1,2,3-cd)pyrene	41:13	23529	5719	1.000	100.0	121.749164	121.75	121.749164	0.441
Dibenz(a,h)anthracene	41:13	18861	5469	1.000	100.0	188.154666	188.15	188.154666	0.768
Benzo(ghi)Perylene-d12	42:07	70869	18371	1.000	500.0	277.913288	55.58	277.913288	0.209
Benzo(ghi)perylene	42:14	22342	5939	1.000	100.0	157.628865	157.63	157.628865	0.544
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	100.0			ND	0.000000

*Spikes
12*



IsoCalc

PAH's by LRMS Extended List

Workorder 3377:01_2	Prep Batch	Lot No
Data File /20060405I/y060405i2.d	Prep Date	SDG No
Analysis ID 89874	Prep Exp Date	Date Received
Analysis Date 04/05/06 16:43	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	16:01	00:00	0	43358 ✓		13806			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	43		17				
	Naphthalene-d8	15:58	00:00	0	180483 ✓		58260			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene	18:04	00:00	0	28448 ✓		11097			AVB	
	1-Methylnaphthalene	18:24	00:00	0	26502 ✓		9504			AVB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene-d10	17:59	00:00	0	114071 ✓		44988			ABV	
	1-Methylnaphthalene-d10	18:18	00:00	0	99258 ✓		40085			AVV	
	Acenaphthylene	20:49	00:00	0	37620 ✓		16754			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	70		28				
	Biphenyl	19:27	00:00	0	34176 ✓		12395			ABB	
	Acenaphthene	21:23	00:00	0	23470 ✓		10445			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	115		46				
	2,6-Dimethylnaphthalene	19:56	00:00	0	24167 ✓		10864			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	13		5				
	Acenaphthylene-d8	20:48	00:00	0	158068 ✓		56900			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	21:17	00:00	0	102325 ✓		47219			ABV	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	20		8				
	Fluorene	22:53	00:00	0	28152 ✓		12910			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	23		9				
	2,6-Dimethylnaphthalene	19:49	00:00	0	99935 ✓		43005			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	13		5				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	10		4				
	2,3,5-Trimethylnaphthal	22:30	00:00	0	21608 ✓		9845			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

PAH's by LRMS Extended List

Workorder 3377:01_2	Prep Batch	Lot No
Data File /20060405I/y060405i2.d	Prep Date	SDG No
Analysis ID 89874	Prep Exp Date	Date Received
Analysis Date 04/05/06 16:43	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
176					176.0000		176.0000				
	Noise	00:00	00:00	0	13		5				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene	25:49	00:00	0	37463 ✓		13702			ABV	M
	Anthracene	25:56	00:00	0	31021 ✓		12366			AVV	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	13		5				
	Phenanthrene-d10	25:45	00:00	0	159949 ✓		69184			ABV	M
	Anthracene-d10	25:53	00:00	0	133928 ✓		62635			AVB	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	23		9				
	1-Methylphenanthrene	27:42	00:00	0	25990 ✓		12119			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	13		5				
	Fluoranthene	29:25	00:00	0	38310 ✓		17111			ABV	M
	Pyrene	30:06	00:00	0	39242 ✓		17140			ABB	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene-d10	29:22	00:00	0	153989 ✓		70181			ABV	
	Pyrene-d10	30:03	00:00	0	213285 ✓		96644			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)anthracene	33:41	00:00	0	28620 ✓		12935			AVV	M
	Chrysene	33:49	00:00	0	29346 ✓		13709			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)Anthracene-d12	33:37	00:00	0	107855 ✓		43458			ABV	
	Chrysene-d12	33:45	00:00	0	113811 ✓		46601			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	8		3				
252					252.0000		252.0000				
	Noise	00:00	00:00	0	60		24				
	Benzo(b)fluoranthene	36:40	00:00	0	32328 ✓		12433			ABV	M
	Benzo(k)fluoranthene	36:43	00:00	0	25137 ✓		10780			AVB	M
	Benzo(e)pyrene	37:28	00:00	0	28058 ✓		10446			AVV	M
	Benzo(a)pyrene	37:37	00:00	0	22113 ✓		8414			AVV	M
	Perylene	37:51	00:00	0	23876 ✓		8419			AVB	M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	50		20				
	Benzo(b)Fluoranthene-d1	36:36	00:00	0	106994 ✓		46787			ABV	M
	Benzo(k)Fluoranthene-d1	36:40	00:00	0	123615 ✓		47786			AVB	M
	Benzo(e)pyrene-d12	37:24	00:00	0	127502 ✓		47953			ABV	M
	Benzo(a)Pyrene-d12	37:33	00:00	0	91366 ✓		31633			AVV	M

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



PAH's by LRMS Extended List

Workorder 3377:01_2	Prep Batch	Lot No
Data File /20060405I/y060405i2.d	Prep Date	SDG No
Analysis ID 89874	Prep Exp Date	Date Received
Analysis Date 04/05/06 16:43	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	37:47	00:00	0	110993 ✓		39750			AVV	M
268					268.0000		268.0000				
	Noise	00:00	00:00	0	60		24				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene	41:13	00:00	0	23529 ✓		5719			ABV	
	Benzo(ghi)perylene	42:14	00:00	0	22342 ✓		5939			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	23		9				
	Dibenz(a,h)anthracene	41:13	00:00	0	18861 ✓		5469			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene-	41:08	00:00	0	96629 ✓		22654			ABV	
	Benzo(ghi)Perylene-d12	42:07	00:00	0	70869 ✓		18371			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	23		9				
	Dibenz(ah)Anthracene-d1	41:07	00:00	0	50121 ✓		14657			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	13		5				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	10		4				

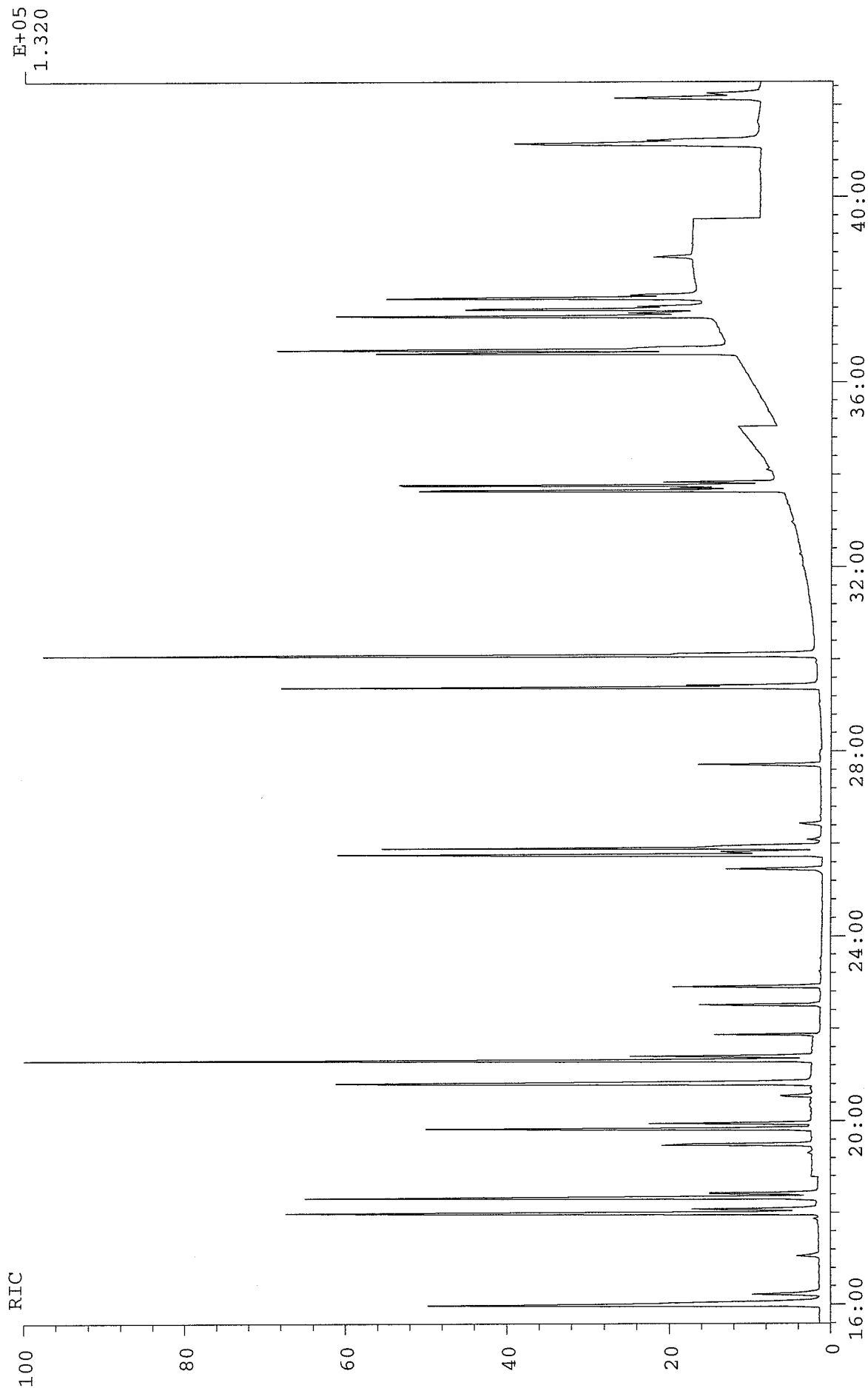
Notes:

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

CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1 > 1384
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06
Elapse: 46:17 1579
Start : 16:43:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : 0, 3.0

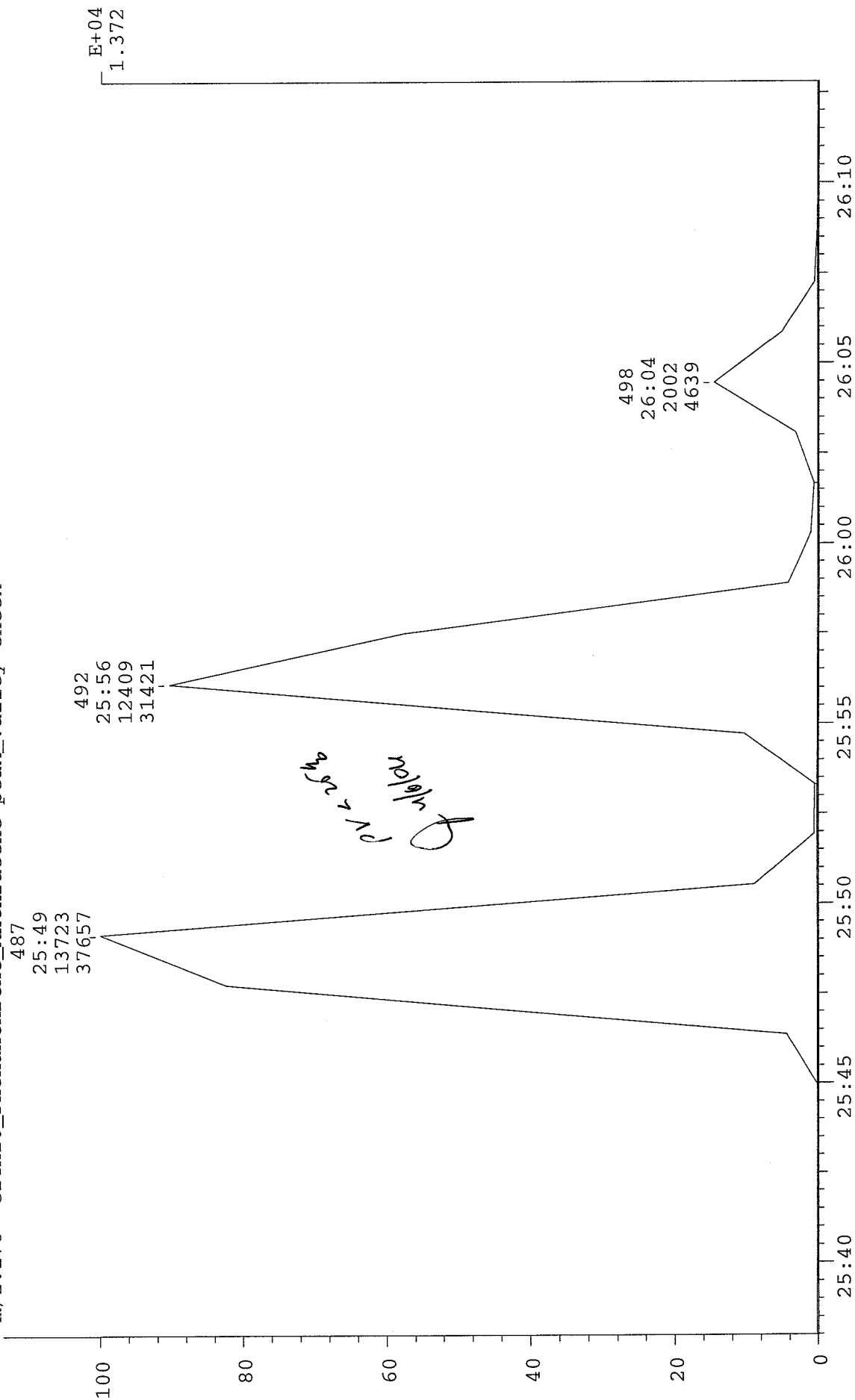
Int / Cali: 9-46/06
QC UMIC 4/10/06



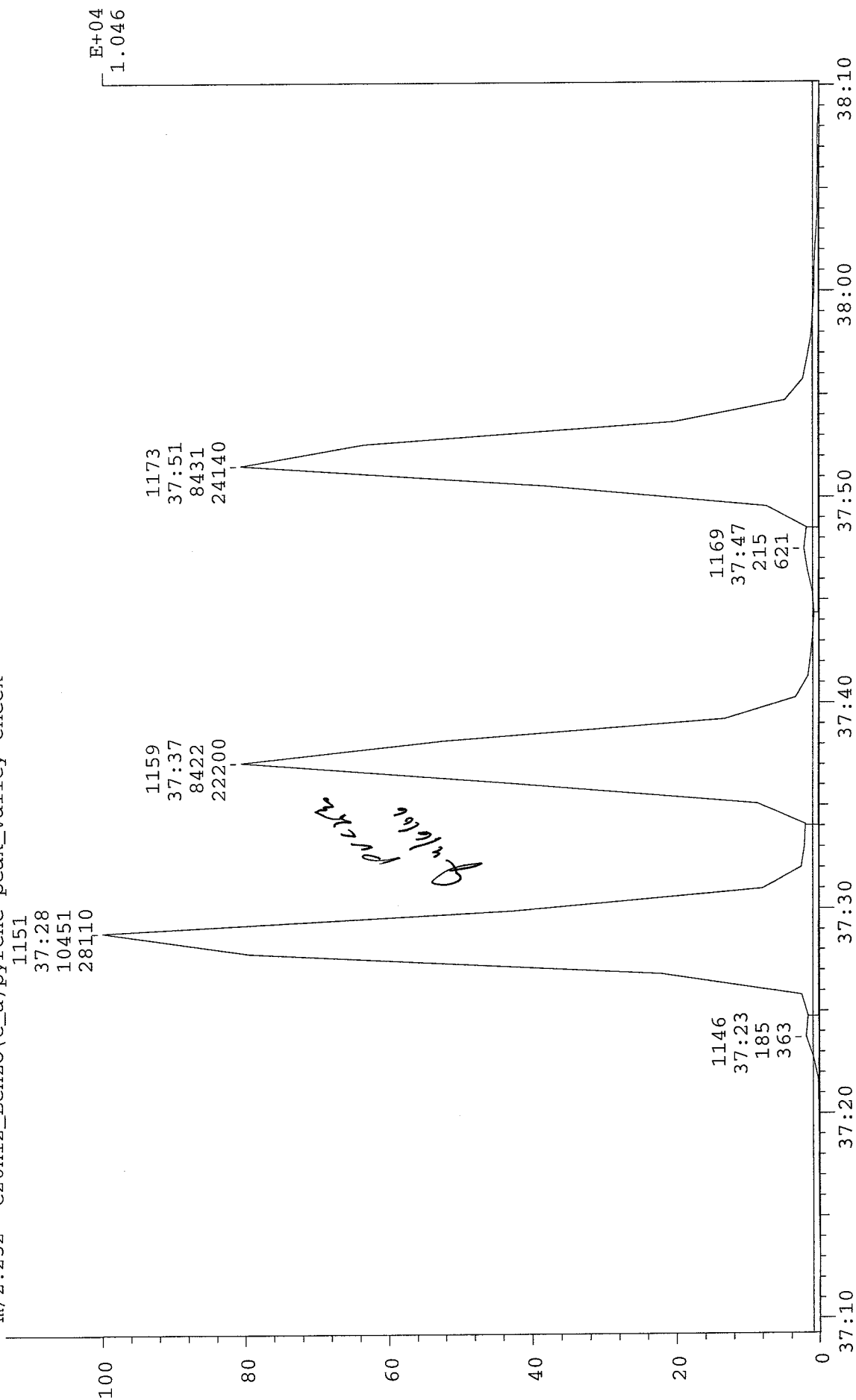
CHRO: Y060405i2
Samp: W0=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 49:19 1735
Start : 16:43:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"



m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"

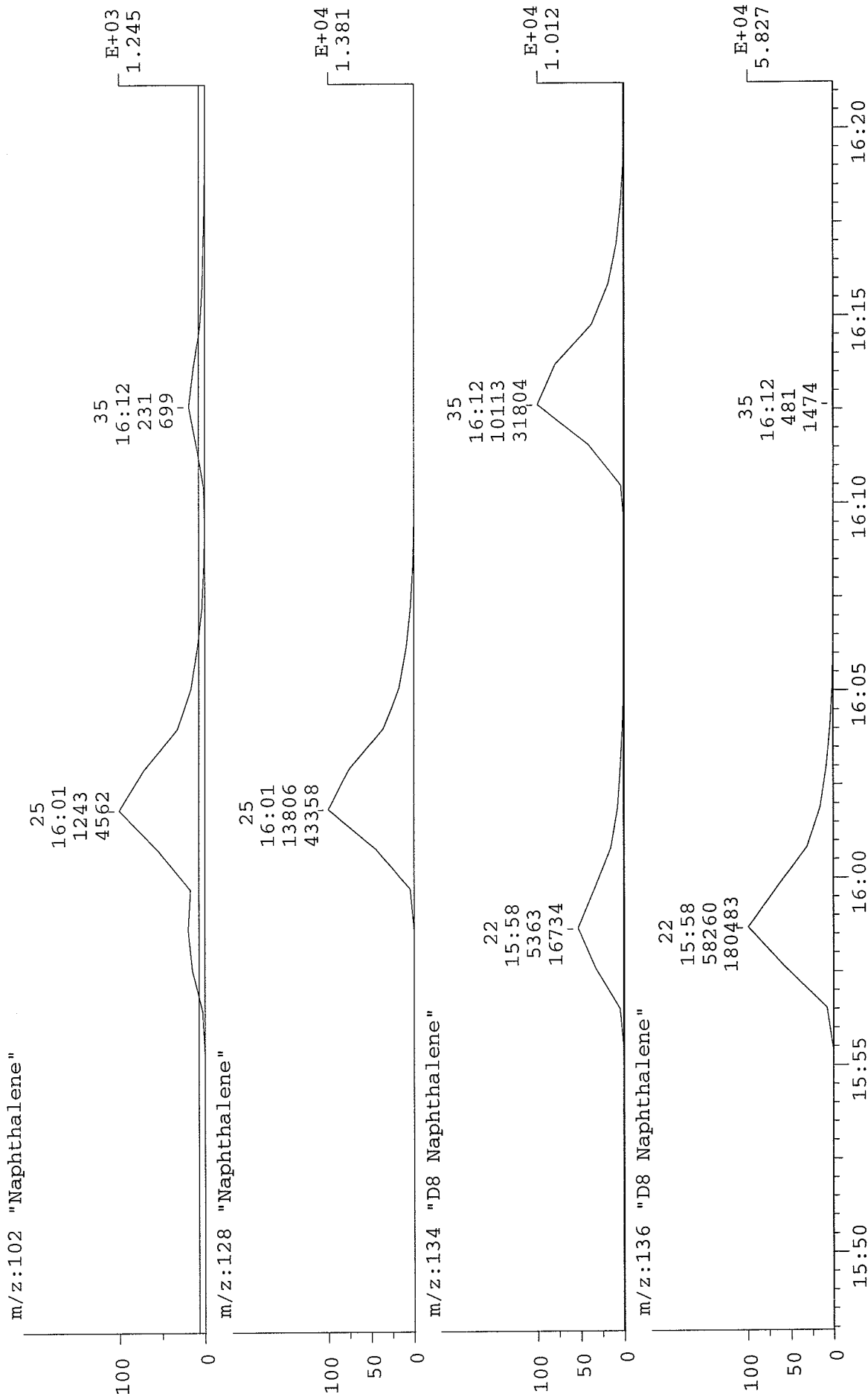


CHRO: Y060405i2
 Samp: WO=3377:01_2 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 12 > 43
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06

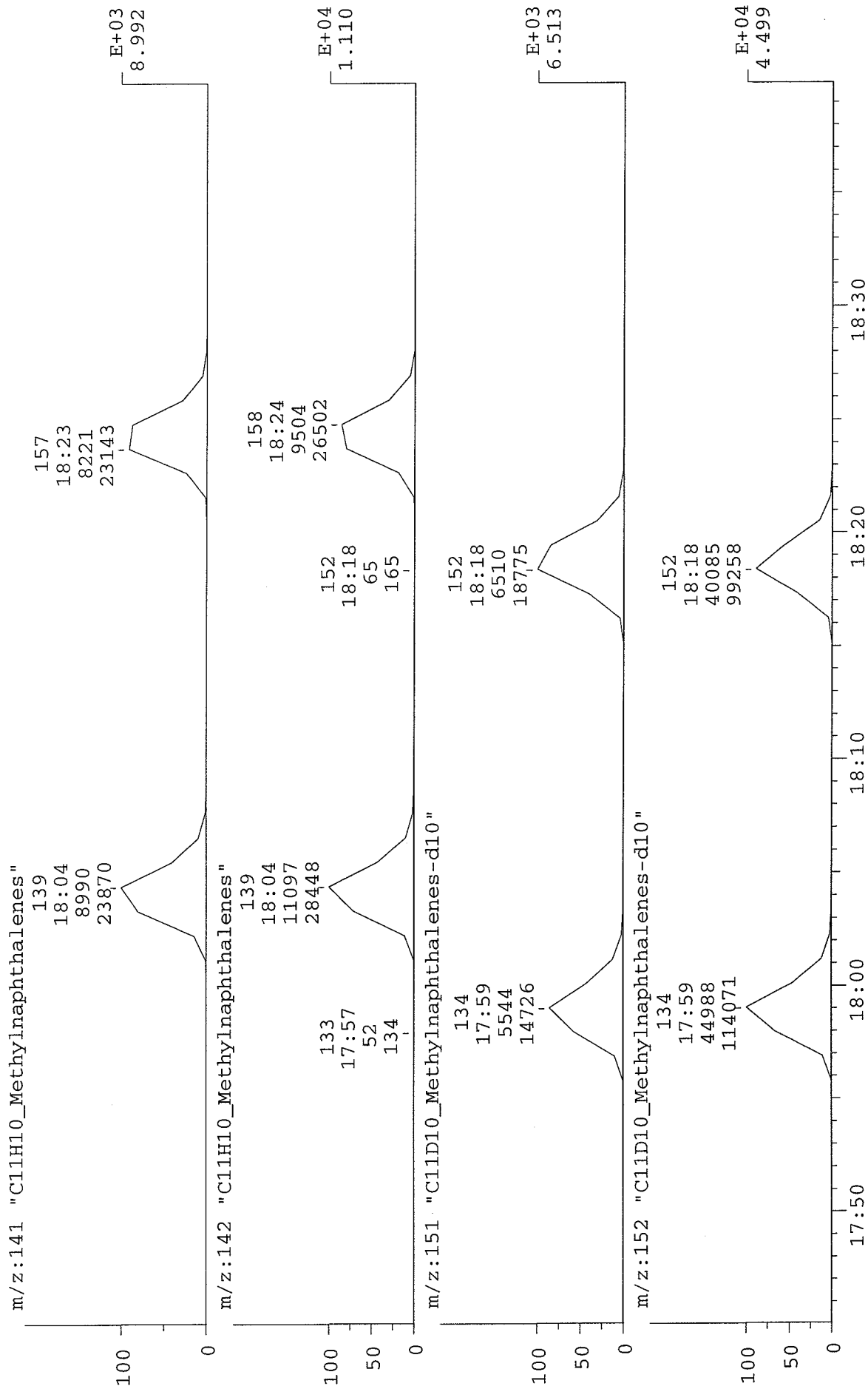
Elapse: 17:51.5 127
 Start : 16:43:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06

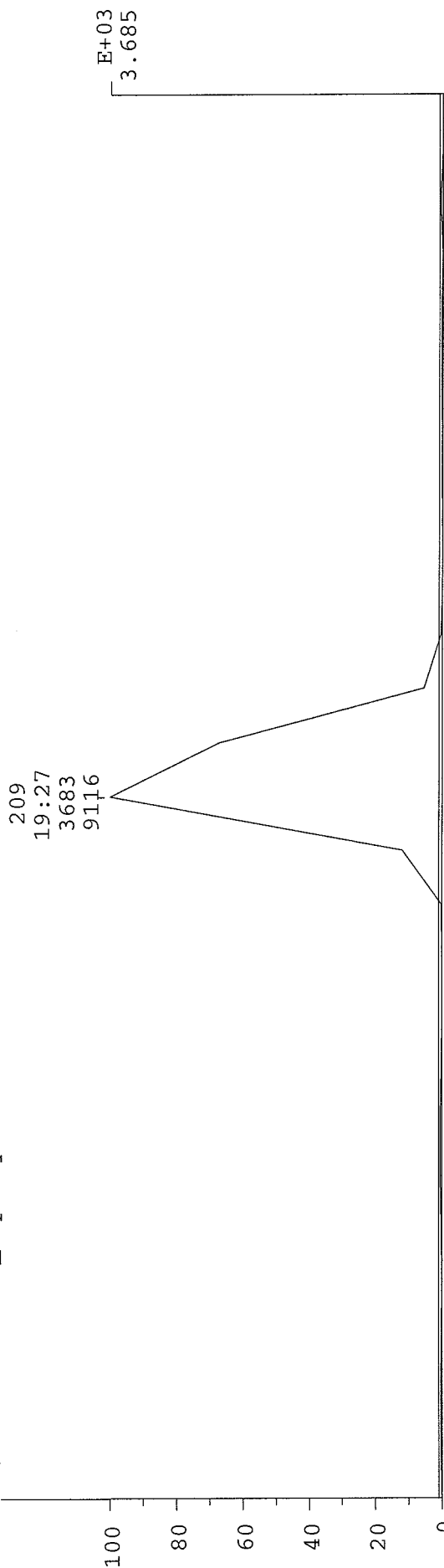
Elapse: 17:51.5 127
Start : 16:43:00 1384Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 196 > 222
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

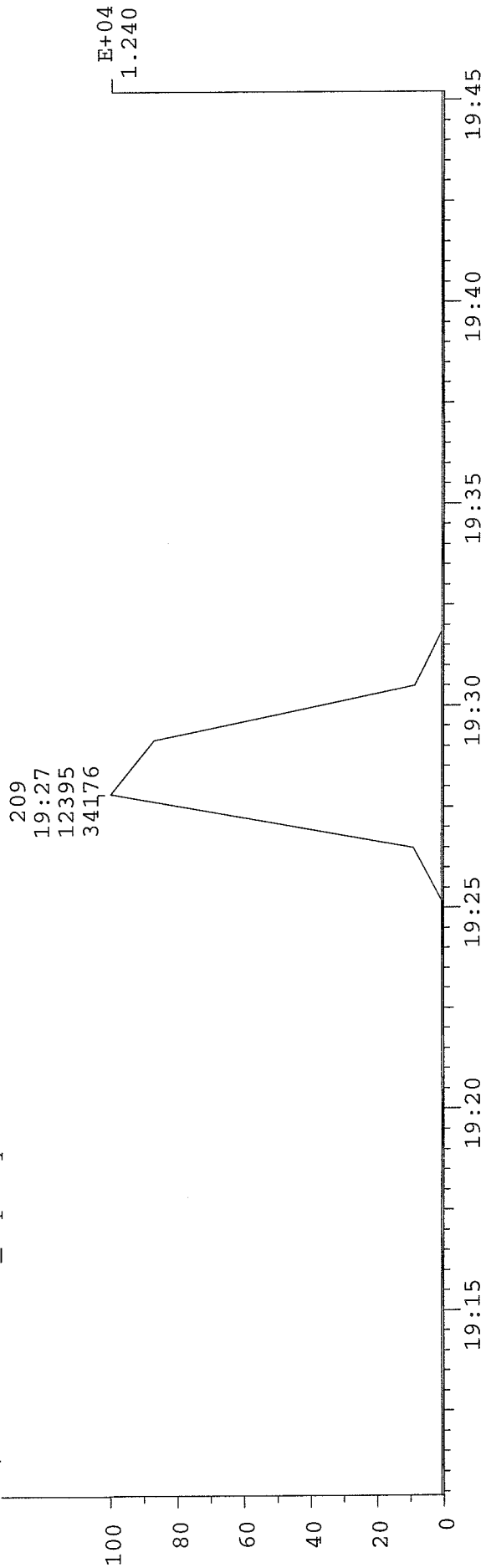
Elapse: 17:51.5 127
Start : 16:43:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

05-APR-06

m/z:152 "C12H10_Biphenyl"



m/z:154 "C12H10_Biphenyl"



CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 17:51.5 127
Start : 16:43:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"



m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"

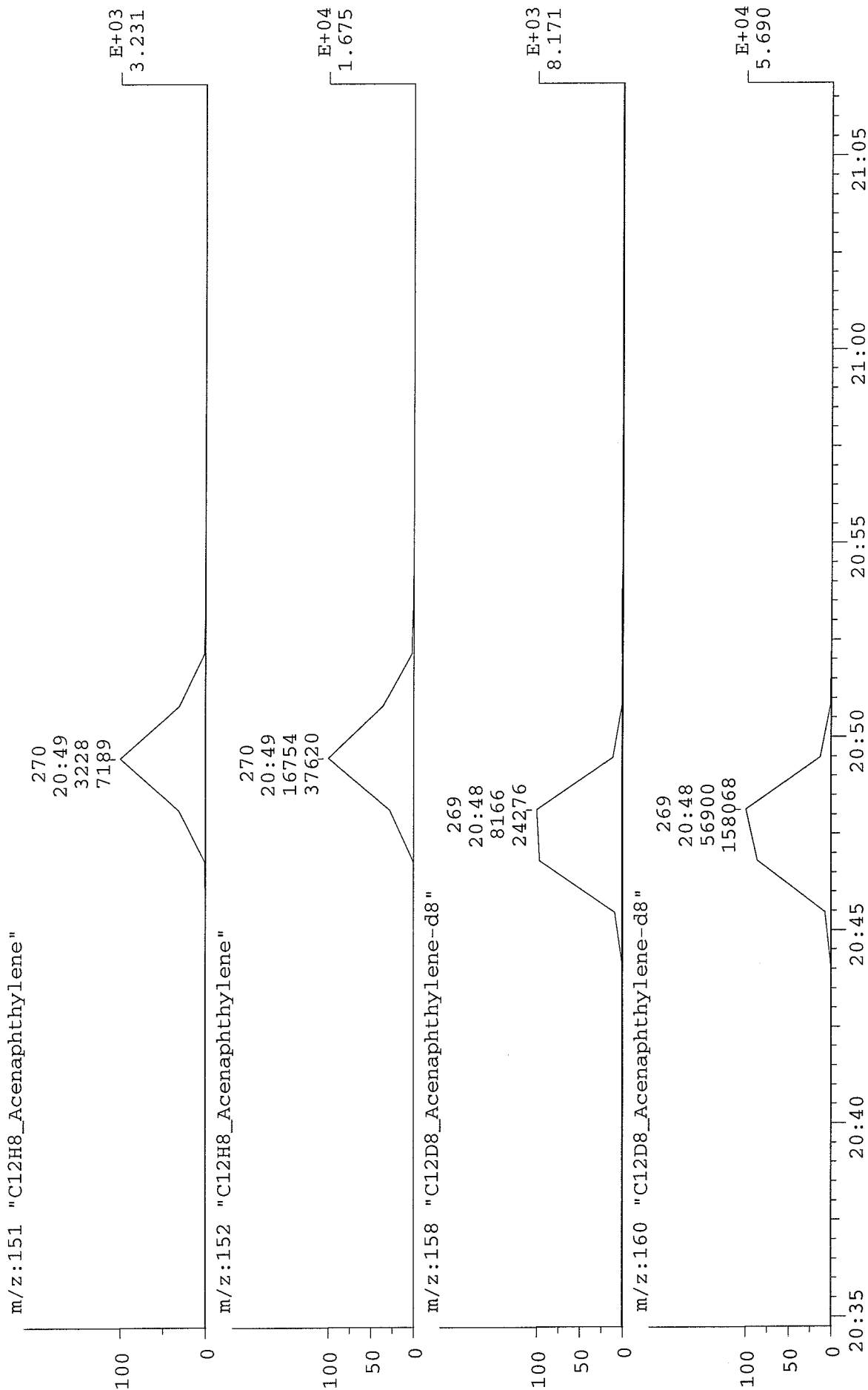


19:40 19:45 19:50 19:55 20:00 20:05

CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 17:51.5 127
Start : 16:43:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



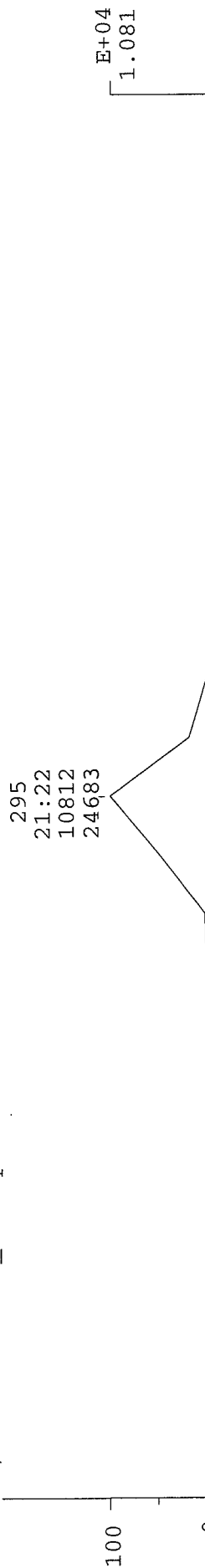
CHRO: Y060405i2
 Samp: WO=3377:01_2 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 283 > 307
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06

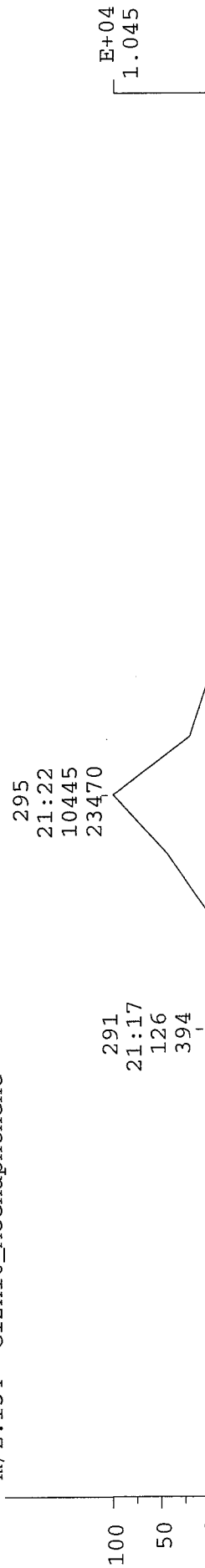
Elapse: 17:51.5 127
 Start : 16:43:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:153 "C12H10_Acenaphthene"



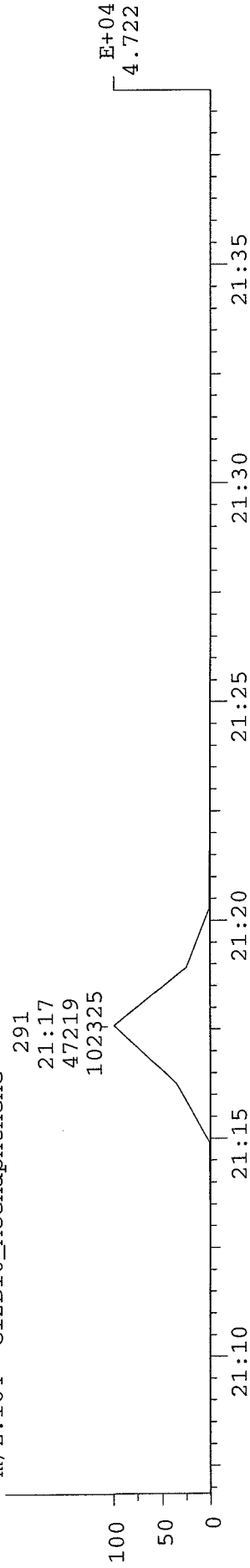
m/z:154 "C12H10_Acenaphthene"



m/z:163 "C12D10_Acenaphthene"



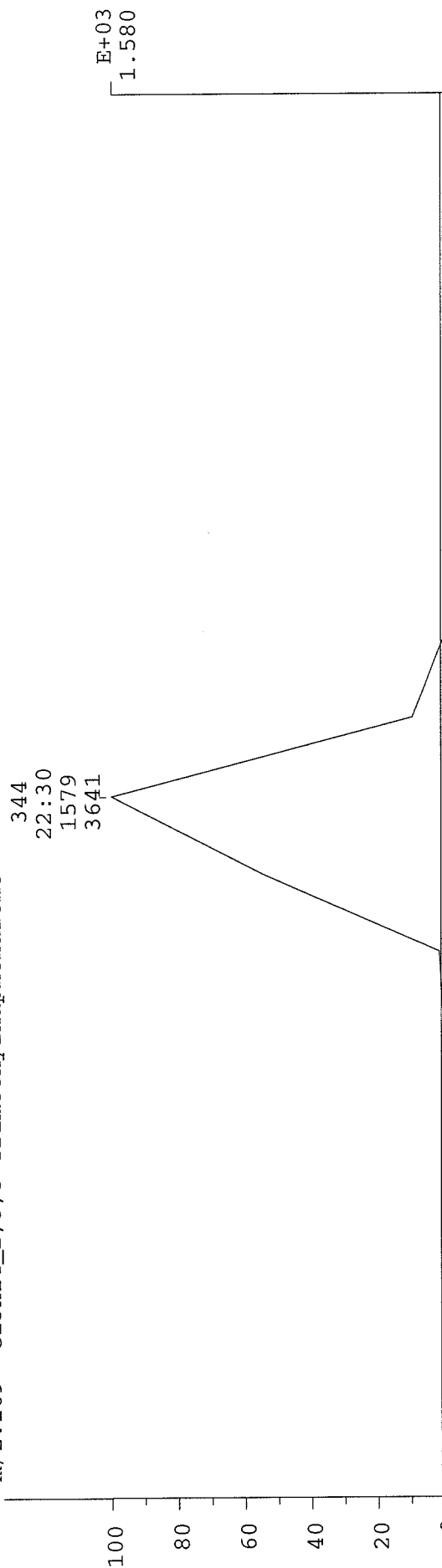
m/z:164 "C12D10_Acenaphthene"



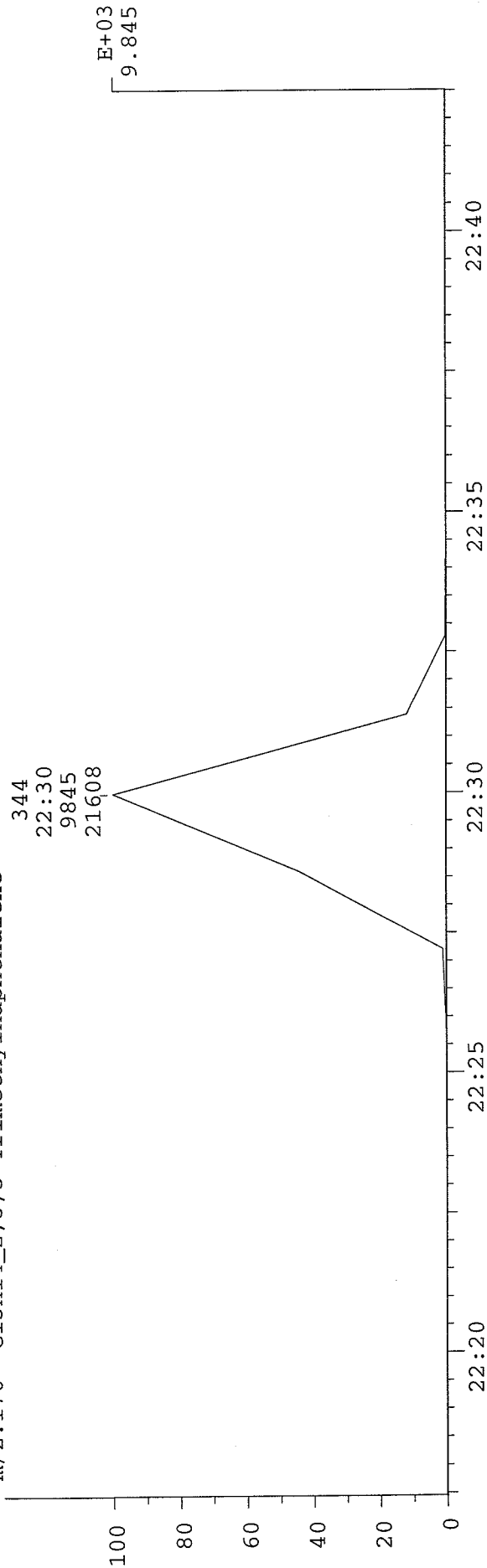
CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 17:51.5 127
Start : 16:43:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"



m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"

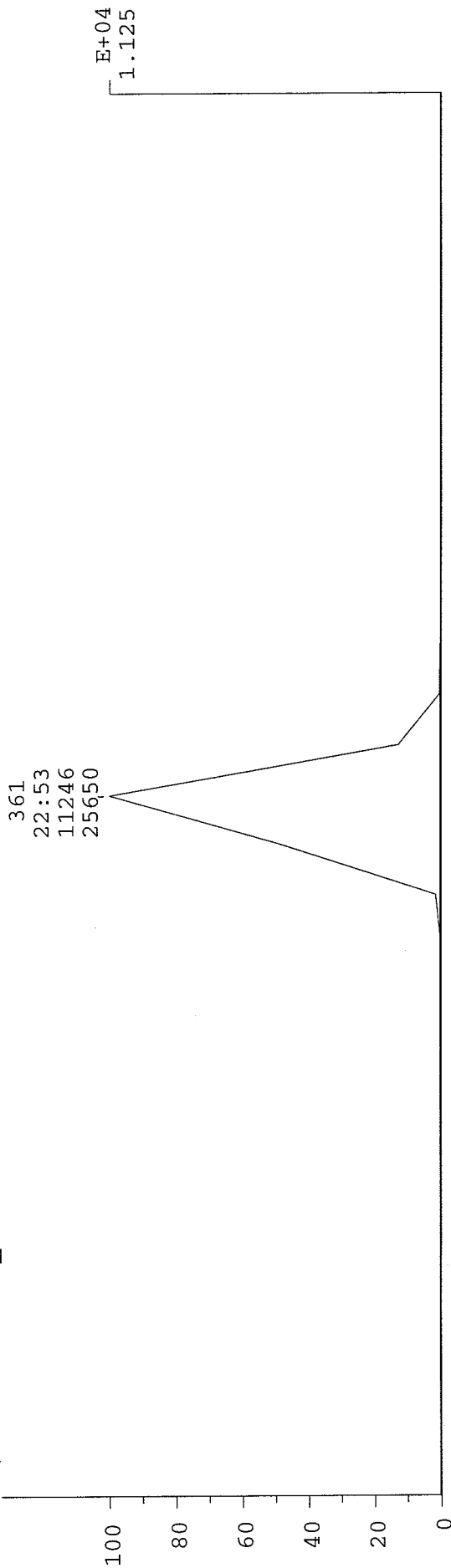


CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

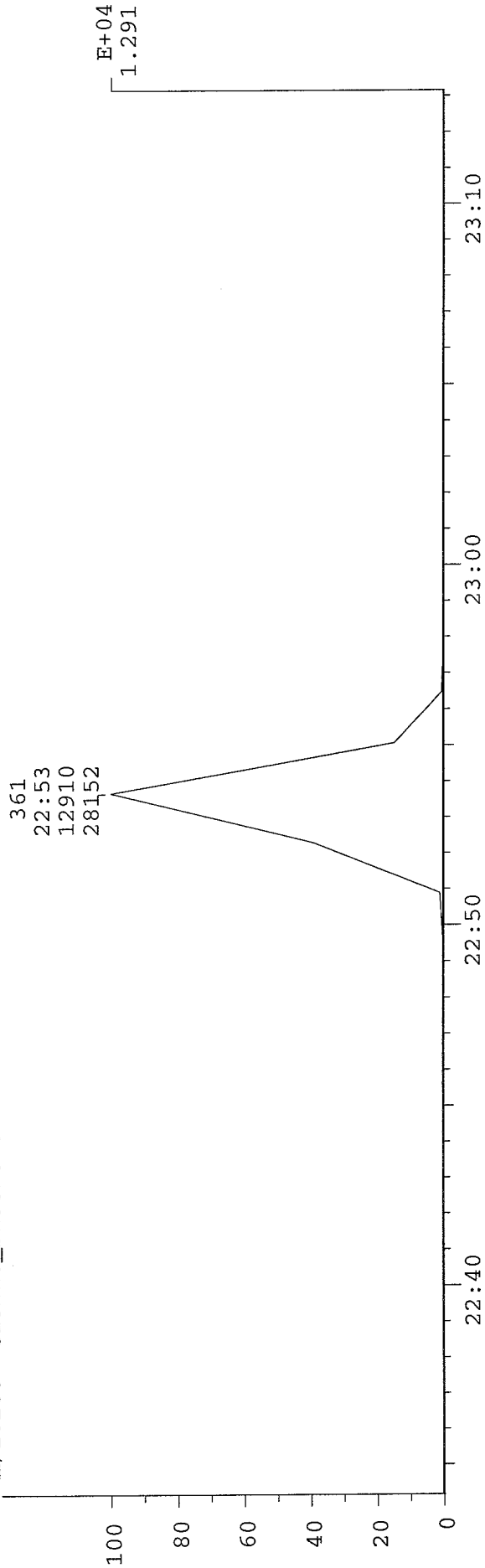
05-APR-06 Elapse: 17:51.5 127
Start : 16:43:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:165 "C13H10_Fluorene"

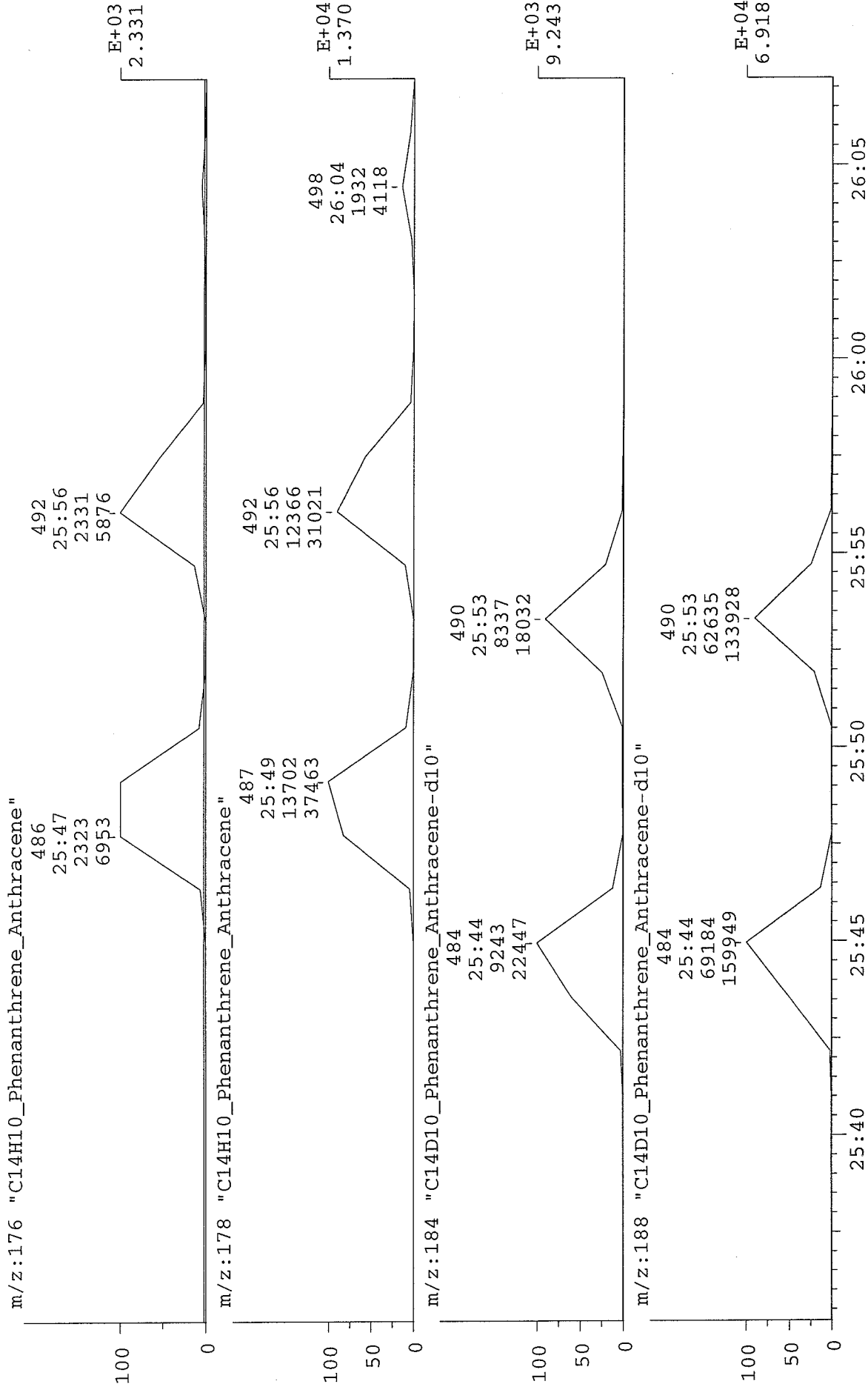


m/z:166 "C13H10_Fluorene"



CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 17:51.5 127
Start : 16:43:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

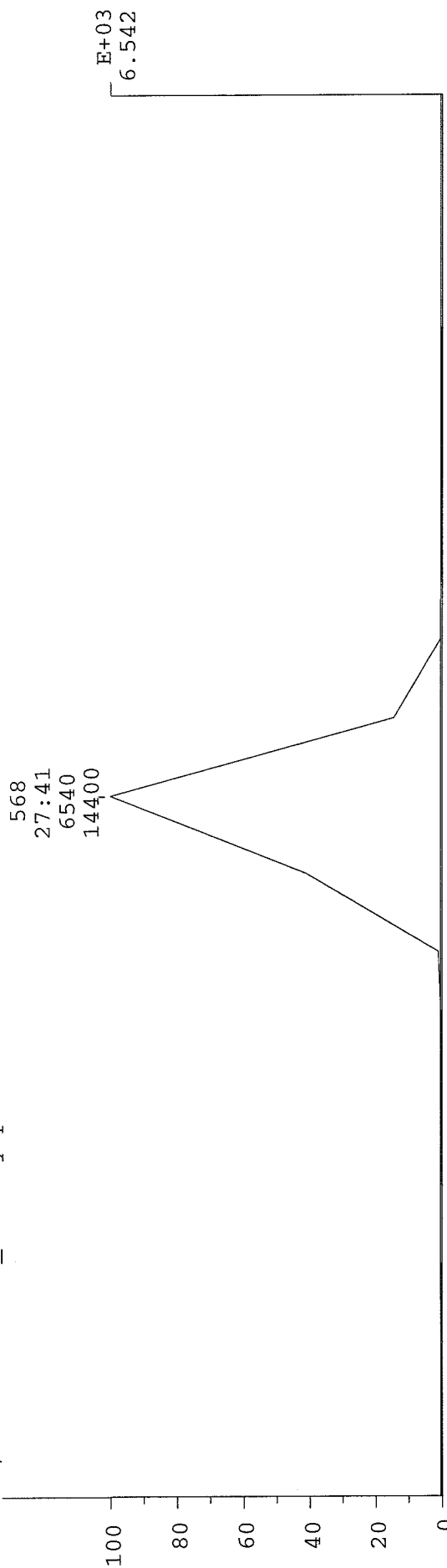


CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

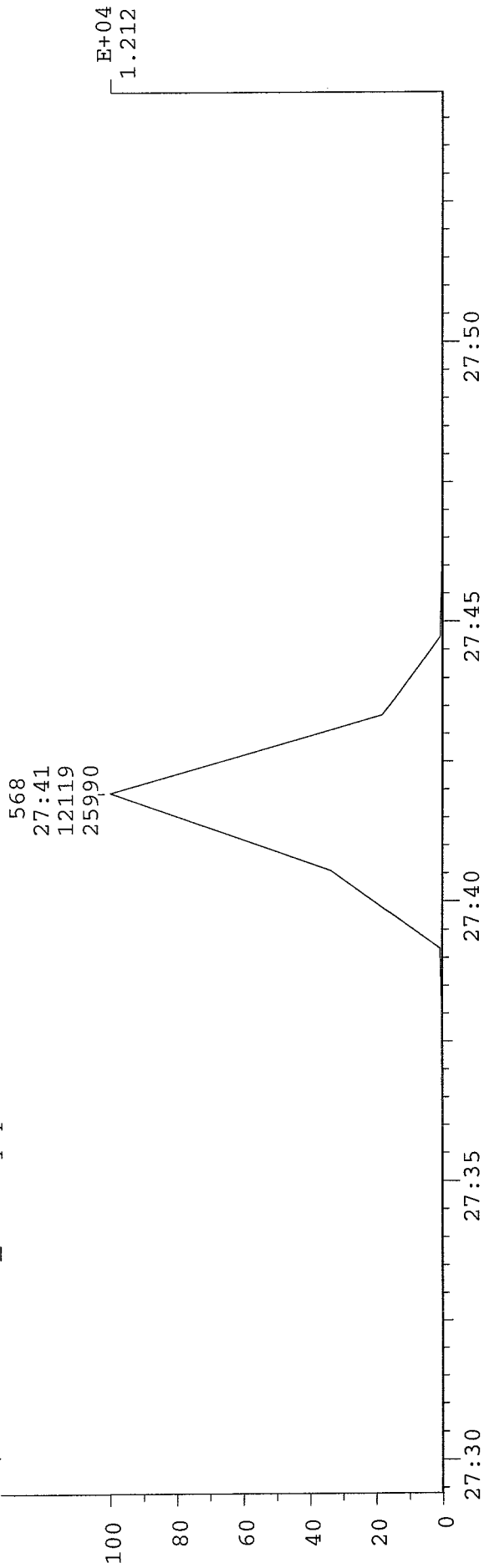
Elapse: 17:51.5 127
Start : 16:43:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Y060405i2

Samp: WO=3377:01_2 Meth=YA1 Dil=1

Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD

Mode: EI +VE + LMR (LIN) UP LR NETCDF

Oper: JMN Client: STL Knoxville

Peak: 100.00 ppm Label wdw: 648 > 725

Area: 5, 0.50, 15 Baseline : 100, 3

Disp: Height Area

05-APR-06

Elapse: 17:51.5 127

Start : 16:43:00 1384

Study : 3377:01 Initial Cali

Inlet :

Masses: 0 > 308

Label : -2, 3.0

m/z:200 "C16H10_Fluoranthene_Pyrene"



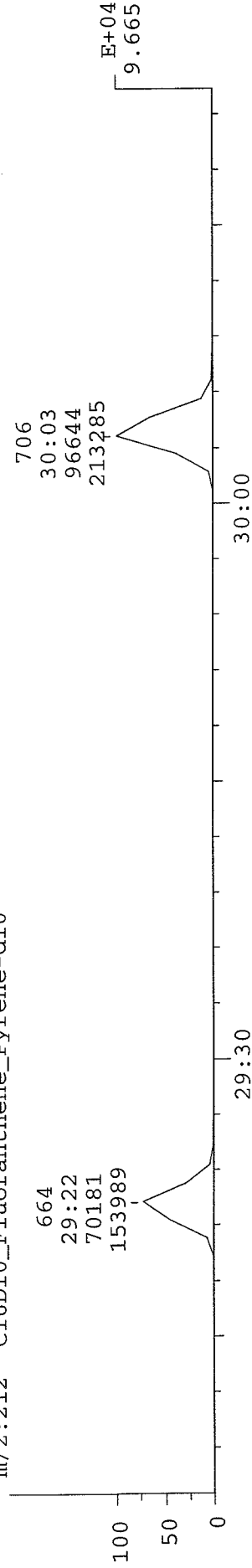
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 "C16D10_Fluoranthene_Pyrene-d10"



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



29:30

30:00

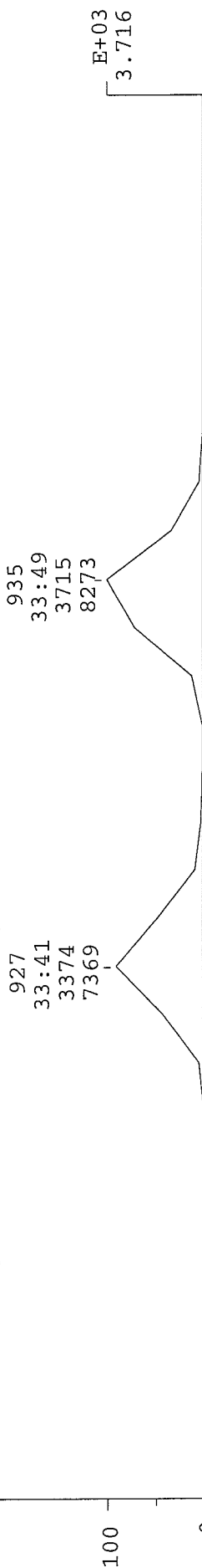
CHRO: Y060405i2
 Samp: WO=3377:01_2 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 916 > 945
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06

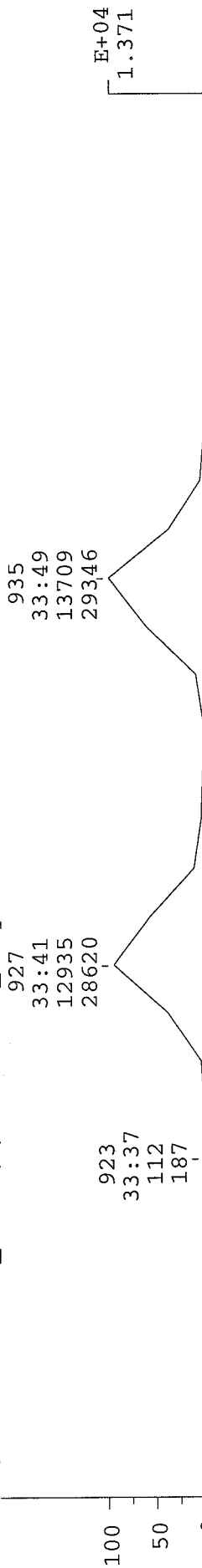
Elapse: 17:51.5 127
 Start : 16:43:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

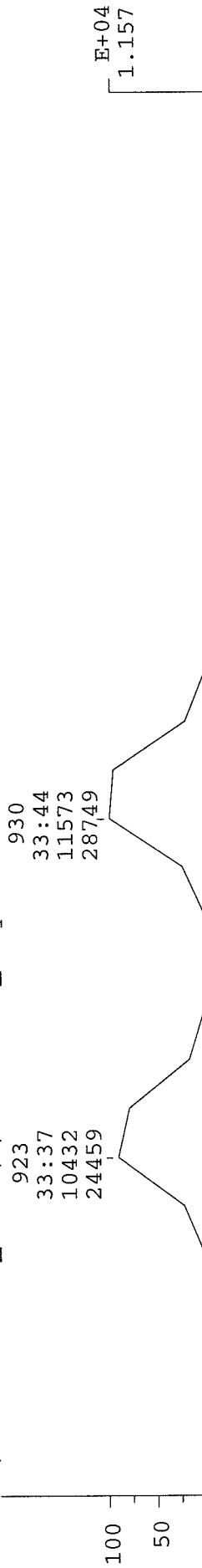
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



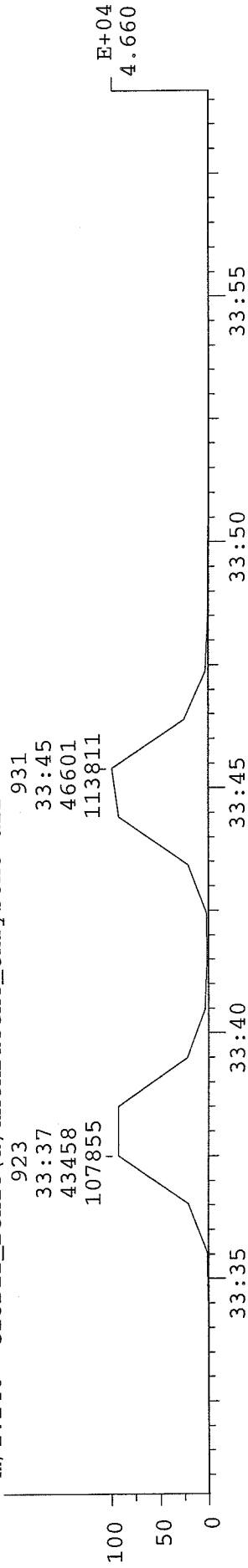
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"



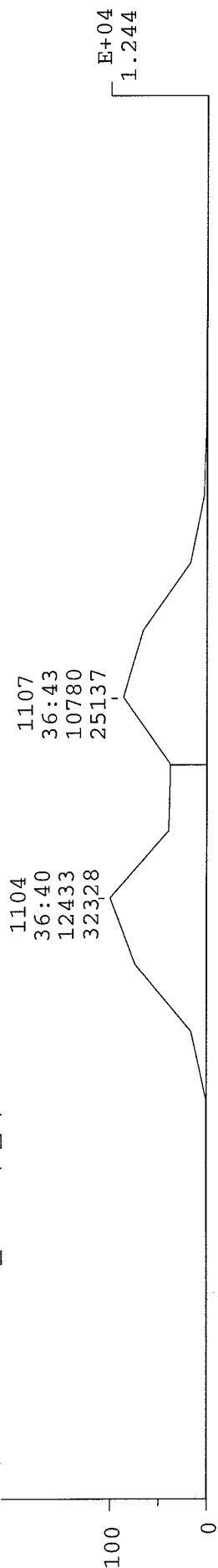
CHRO: Y060405i2
 Samp: WO=3377:01_2 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1095 > 1116
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06

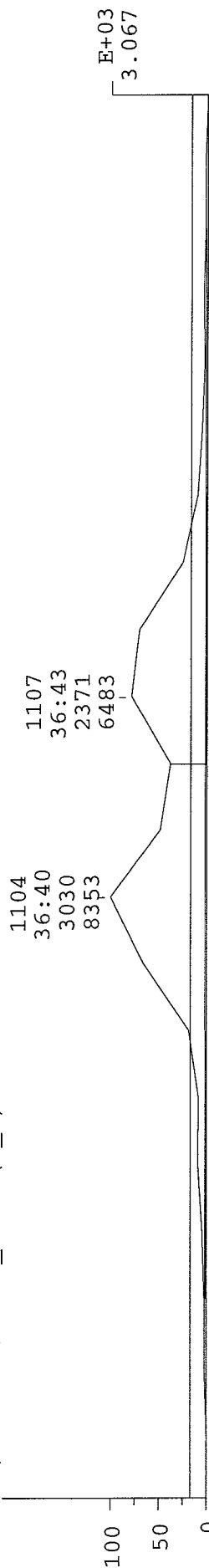
Elapse: 17:51.5 127
 Start : 16:43:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

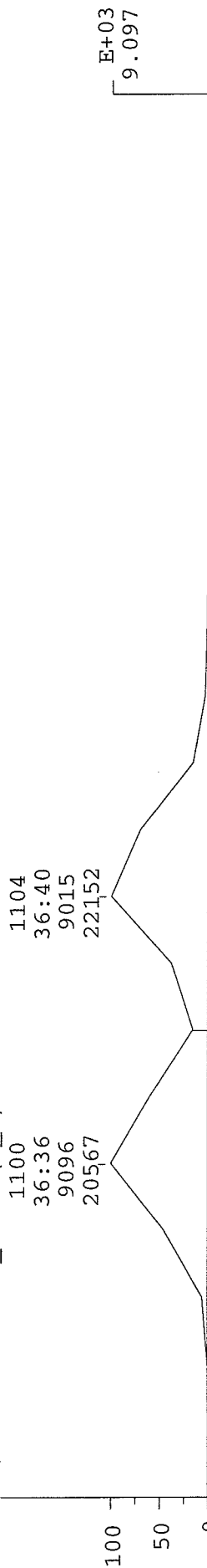
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



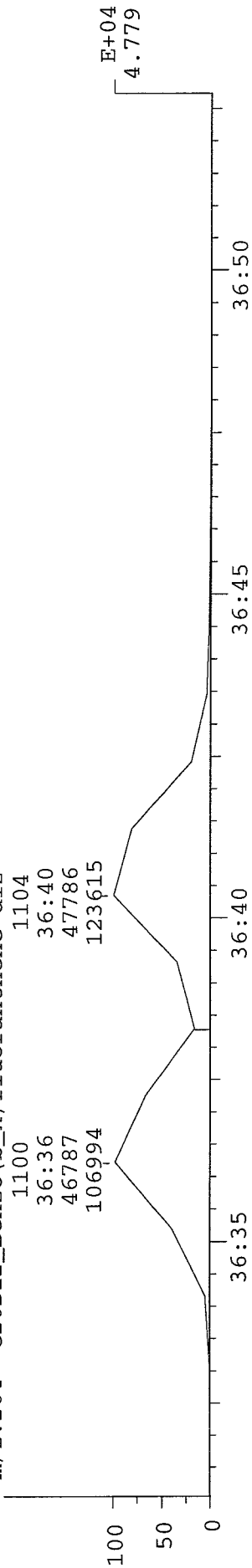
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



36:50

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22:10

22:05

22:00

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21:10

21:05

21:00

20:55

20:50

20:45

20:40

20:35

20:30

20:25

20:20

20:15

20:10

20:05

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19:55

19:50

19:45

19:40

19:35

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19:15

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19:05

19:00

18:55

18:50

18:45

18:40

18:35

18:30

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18:20

18:15

18:10

18:05

18:00

17:55

17:50

17:45

17:40

17:35

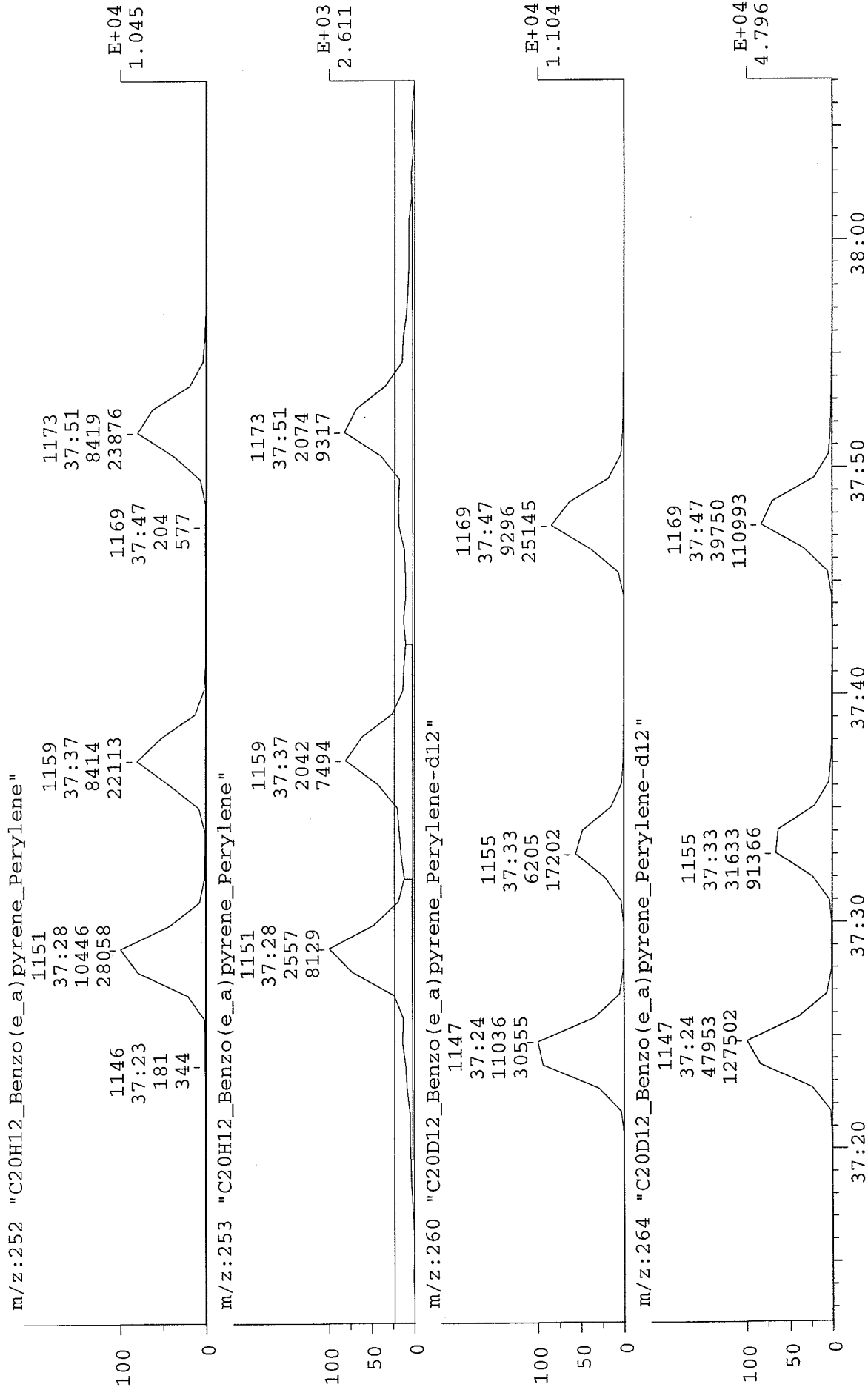
17:30

17:25

17:20

CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1135 > 1188
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 17:51.5 127
Start : 16:43:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



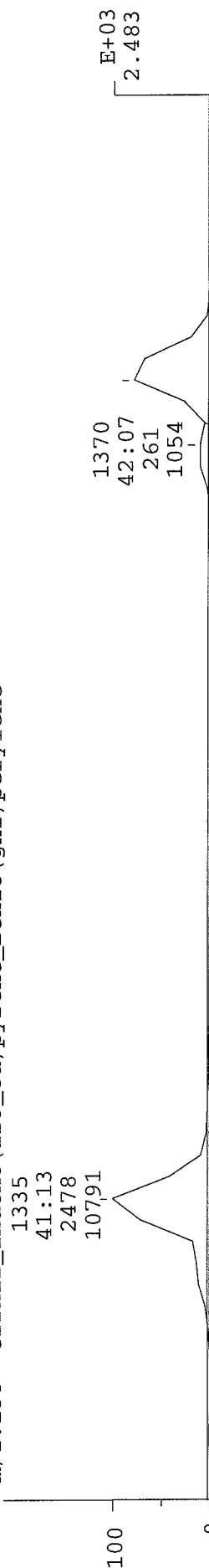
CHRO: Y060405i2
Samp: WO=3377:01_2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1321 > 1387
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06

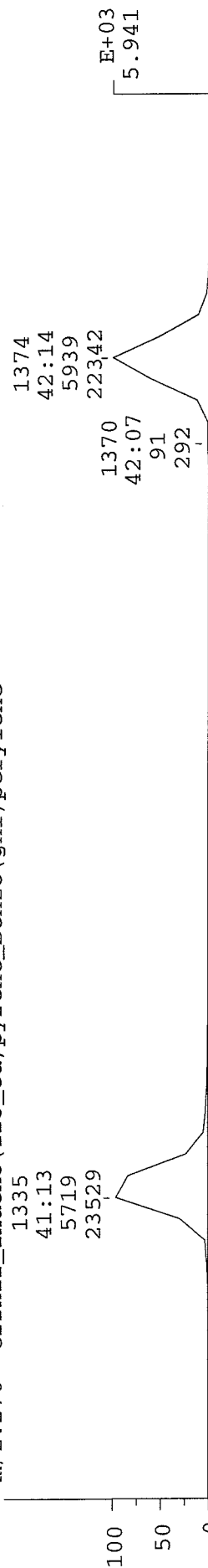
Elapse: 42:07 1370
Start : 16:43:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

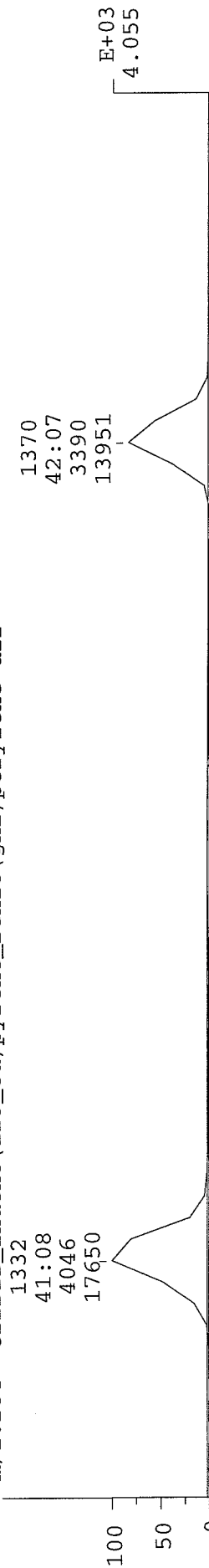
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



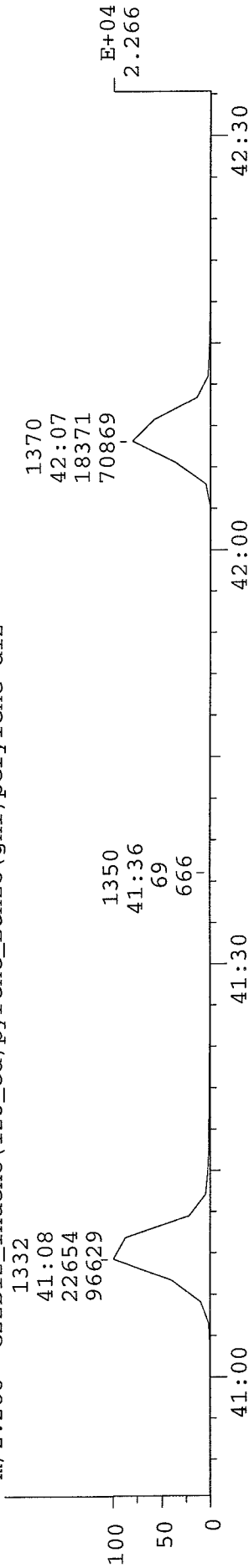
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



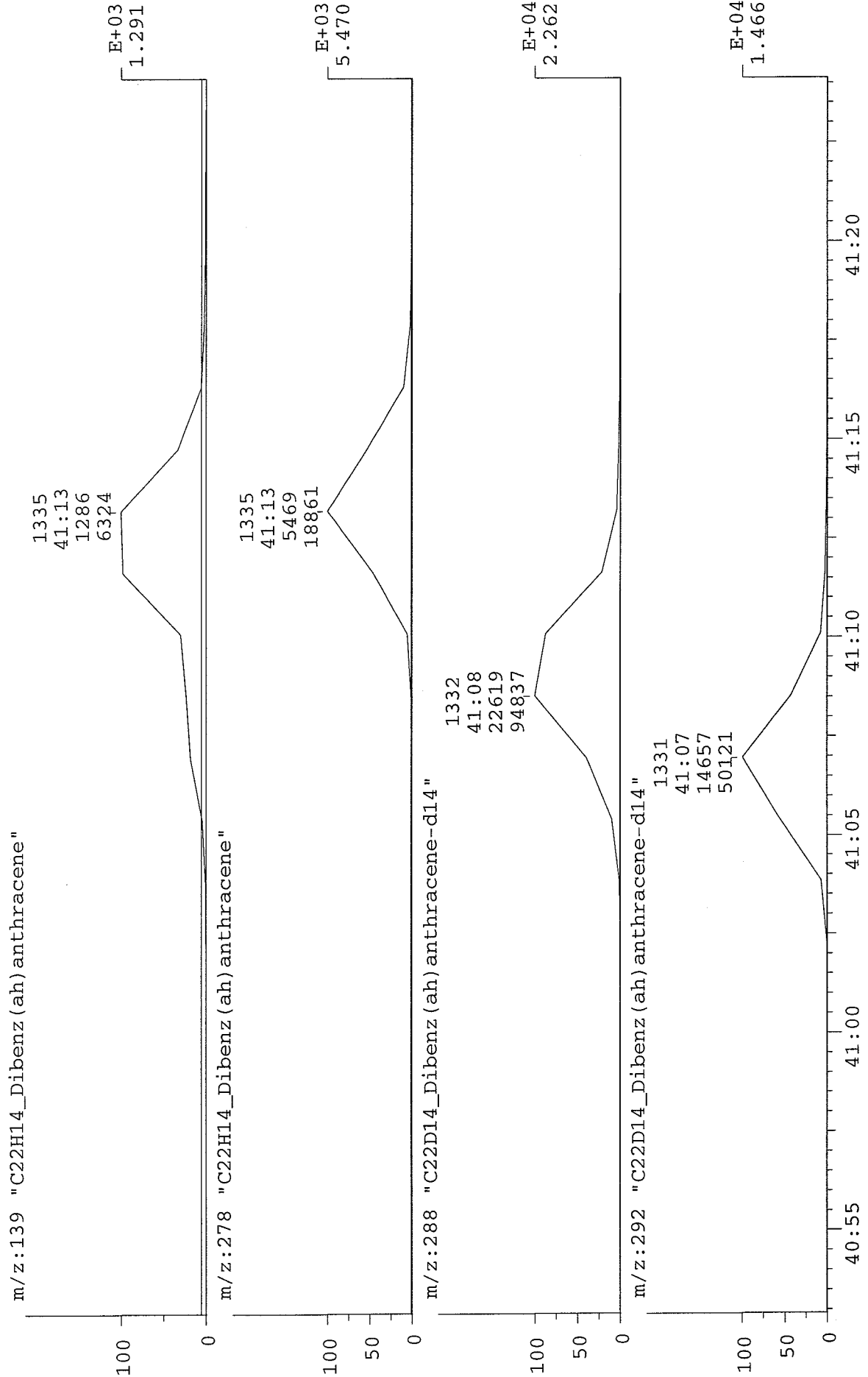
m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



CHRO: Y060405i2
 Samp: WO=3377:01_2 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1322 > 1342
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area



File: Y60405I2.D
 Date Acquired: 5 Apr 2006 4:43 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060405I2
 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 05 18:33:34 2006
 d:\cdf\files\Y60405I2.CDF Translated at Wed Apr 05 18:33:34 2006 Elapsed: 1 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 5 13:00:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60405i2.dat
 NetCDF File (input): /usr/users/hp/data/y60405i2.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 5 13:00:03 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder 3377:01_3	Prep Batch	Lot No
Data File /20060405I/y060405i3.d	Prep Date	SDG No
Analysis ID 89893	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 17:33	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0 /	Code YAI
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	182468	57939	1.000	500.0	724.476102	144.90	724.476102	0.194
Naphthalene	16:01	113642	34890	1.000	250.0	311.402547	124.56	311.402547	0.151
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	250.0			ND	0.000000
2-Methylnaphthalene	18:04	75243	29941	1.000	250.0	325.913509	130.37	325.913509	0.189
2-Methylnaphthalene-d10	17:59	115434	46206	1.000	500.0	458.322415	91.66	458.322415	0.216
1-Methylnaphthalene	18:24	70266	25682	1.000	250.0	350.418911	140.17	350.418911	0.217
1-Methylnaphthalene-d10	18:18	100260	40245	1.000	500.0	398.075136	79.62	398.075136	0.216
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	91555	32592	1.000	250.0	396.568602	158.63	396.568602	0.595
2,6-Dimethylnaphthalene	19:56	65735	29709	1.000	250.0	320.646024	128.26	320.646024	1.23
2,6-Dimethylnaphthalene-d1	19:49	102504	44812	1.000	500.0	406.984777	81.40	406.984777	0.173
C2-Alkylnaphthalenes				1.000		320.646024		320.646024	0.949
Acenaphthylene	20:49	102146	46297	1.000	250.0	315.590763	126.24	315.590763	0.219
Acenaphthylene-d8	20:48	161833	57036	1.000	500.0	642.546315	128.51	642.546315	0.0864
Acenaphthene-d10	21:17	125931	57858	1.000	500.0	500.000000	100.00	500.000000	0.130
Acenaphthene	21:23	63446	28341	1.000	250.0	196.023061	78.41	196.023061	0.482
2,3,5-Trimethylnaphthalene	22:30	58275	25789	1.000	250.0	284.257200	113.70	284.257200	0.167
C3-Alkylnaphthalenes				1.000		284.257200		284.257200	0.129
Fluorene-d10				1.000	250.0			ND	0.144
Fluorene-C13				1.000	250.0			ND	0.0539
Fluorene	22:53	76077	33558	1.000	250.0	231.096598	92.44	231.096598	0.162
Phenanthrene-d10	25:45	164600	69546	1.000	500.0	315.762415	63.15	315.762415	0.0638
Phenanthrene	25:49	101747	35792	1.000	250.0	309.073512	123.63	309.073512	0.144
Anthracene-d10	25:53	142853	66217	1.000	500.0	274.043792	54.81	274.043792	0.0638
Anthracene	25:56	86262	35816	1.000	250.0	262.035237	104.81	262.035237	0.144
1-Methylphenanthrene	27:42	71603	32835	1.000	250.0	217.506075	87.00	217.506075	0.216
Fluoranthene-d10	29:22	157152	70323	1.000	500.0	301.474453	60.29	301.474453	0.0957
Fluoranthene	29:25	105199	47605	1.000	250.0	334.704617	133.88	334.704617	0.0889
Pyrene-d10	30:03	260639	117533	1.000	500.0	500.000000	100.00	500.000000	0.0957
Pyrene	30:06	108573	48492	1.000	250.0	345.439447	138.18	345.439447	0.0889
Terphenyl-d14				1.000	250.0			ND	0.0556
Benzo(a)Anthracene-d12	33:37	110148	45836	1.000	500.0	211.303757	42.26	211.303757	0.0851
Benzo(a)anthracene	33:41	79174	37114	1.000	250.0	359.398264	143.76	359.398264	0.164
Chrysene-d12	33:45	118018	48803	1.000	500.0	226.401268	45.28	226.401268	0.0851
Chrysene	33:49	80524	38275	1.000	250.0	341.151350	136.46	341.151350	0.154
Benzo(b)Fluoranthene-d12	36:36	109950	48042	1.000	500.0	350.132474	70.03	350.132474	0.439
Benzo(k)Fluoranthene-d12	36:40	128087	49686	1.000	500.0	407.889206	81.58	407.889206	0.439
Benzo(b)fluoranthene	36:40	86604	33229	1.000	250.0	393.833561	157.53	393.833561	0.650
Benzo(k)fluoranthene	36:43	69806	30524	1.000	250.0	272.494476	109.00	272.494476	0.629
Benzo(e)pyrene-d12	37:24	157012	59765	1.000	500.0	500.000000	100.00	500.000000	0.439
Benzo(e)pyrene	37:28	75972	28909	1.000	250.0	403.831434	161.53	403.831434	0.930
Benzo(a)Pyrene-d12	37:33	94064	33595	1.000	500.0	299.543984	59.91	299.543984	0.439
Benzo(a)pyrene	37:37	62352	24138	1.000	250.0	331.433917	132.57	331.433917	0.930
Perylene-d12	37:47	114243	42035	1.000	500.0	363.803404	72.76	363.803404	0.439
Perylene	37:51	67099	23795	1.000	250.0	293.667883	117.47	293.667883	0.743
3-Methylcholanthrene				1.000	250.0			ND	0.743

4/14/06
MK

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder 3377:01_3	Prep Batch	Lot No
Data File /20060405I/y060405i3.d	Prep Date	SDG No
Analysis ID 89893	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 17:33	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	41:07	51536	14853	1.000	500.0	164.114845	32.82	164.114845	0.209
Indeno(1,2,3-cd)pyrene-d12	41:08	99647	23693	1.000	500.0	317.322880	63.46	317.322880	0.209
Indeno(1,2,3-cd)pyrene	41:13	63528	16139	1.000	250.0	318.765241	127.51	318.765241	0.422
Dibenz (a,h) anthracene	41:13	52185	15471	1.000	250.0	506.296569	202.52	506.296569	0.842
Benzo(ghi) Perylene-d12	42:07	71792	18963	1.000	500.0	228.619469	45.72	228.619469	0.209
Benzo(ghi) perylene	42:14	60956	16300	1.000	250.0	424.531981	169.81	424.531981	0.527
12C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	250.0			ND	0.000000

gmk
x2



PAH's by LRMS Extended List

Workorder 3377:01_3	Prep Batch	Lot No
Data File /20060405I/y060405i3.d	Prep Date	SDG No
Analysis ID 89893	Prep Exp Date	Date Received
Analysis Date 04/05/06 17:33	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	16:01	00:00	0	113642 ✓		34890			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	23		9				
	Naphthalene-d8	15:58	00:00	0	182468 ✓		57939			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene	18:04	00:00	0	75243 ✓		29941			AVV	
	1-Methylnaphthalene	18:24	00:00	0	70266 ✓		25682			AVB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	25		10				
	2-Methylnaphthalene-d10	17:59	00:00	0	115434 ✓		46206			ABV	
	1-Methylnaphthalene-d10	18:18	00:00	0	100260 ✓		40245			AVB	
	Acenaphthylene	20:49	00:00	0	102146 ✓		46297			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	55		22				
	Biphenyl	19:27	00:00	0	91555 ✓		32592			ABB	
	Acenaphthene	21:23	00:00	0	63446 ✓		28341			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	110		44				
	2,6-Dimethylnaphthalene	19:56	00:00	0	65735 ✓		29709			AVB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:48	00:00	0	161833 ✓		57036			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	21:17	00:00	0	125931 ✓		57858			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	23		9				
	Fluorene	22:53	00:00	0	76077 ✓		33558			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	20		8				
	2,6-Dimethylnaphthalene	19:49	00:00	0	102504 ✓		44812			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	13		5				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	15		6				
	2,3,5-Trimethylnaphthal	22:30	00:00	0	58275 ✓		25789			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



PAH's by LRMS Extended List

Workorder 3377:01_3	Prep Batch	Lot No
Data File /20060405I/y060405i3.d	Prep Date	SDG No
Analysis ID 89893	Prep Exp Date	Date Received
Analysis Date 04/05/06 17:33	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	20		8				
	Phenanthrene	25:49	00:00	0	101747 ✓		35792		ABV		M
	Anthracene	25:56	00:00	0	86262 ✓		35816		AVV		M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene-d10	25:45	00:00	0	164600 ✓		69546		ABV		M
	Anthracene-d10	25:53	00:00	0	142853 ✓		66217		AVB		M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	30		12				
	1-Methylphenanthrene	27:42	00:00	0	71603 ✓		32835		ABB		M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	13		5				
	Fluoranthene	29:25	00:00	0	105199 ✓		47605		ABV		M
	Pyrene	30:06	00:00	0	108573 ✓		48492		ABB		
212					212.0000		212.0000				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene-d10	29:22	00:00	0	157152 ✓		70323		ABV		
	Pyrene-d10	30:03	00:00	0	260639 ✓		117533		ABV		
228					228.0000		228.0000				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)anthracene	33:41	00:00	0	79174 ✓		37114		ABV		M
	Chrysene	33:49	00:00	0	80524 ✓		38275		AVB		M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	20		8				
	Benzo(a)Anthracene-d12	33:37	00:00	0	110148 ✓		45836		ABV		
	Chrysene-d12	33:45	00:00	0	118018 ✓		48803		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	36:40	00:00	0	86604 ✓		33229		ABV		M
	Benzo(k)fluoranthene	36:43	00:00	0	69806 ✓		30524		AVB		M
	Benzo(e)pyrene	37:28	00:00	0	75972 ✓		28909		AVV		M
	Benzo(a)pyrene	37:37	00:00	0	62352 ✓		24138		AVV		M
	Perylene	37:51	00:00	0	67099 ✓		23795		AVB		M
264					264.0000		264.0000				
	Noise	00:00	00:00	0	53		21				
	Benzo(b)Fluoranthene-d1	36:36	00:00	0	109950 ✓		48042		ABV		M
	Benzo(k)Fluoranthene-d1	36:40	00:00	0	128087 ✓		49686		AVB		M
	Benzo(e)pyrene-d12	37:24	00:00	0	157012 ✓		59765		ABV		M
	Benzo(a)Pyrene-d12	37:33	00:00	0	94064 ✓		33595		AVV		M

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



PAH's by LRMS Extended List

Workorder 3377:01_3	Prep Batch	Lot No
Data File /20060405I/y060405i3.d	Prep Date	SDG No
Analysis ID 89893	Prep Exp Date	Date Received
Analysis Date 04/05/06 17:33	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				
	Perylene-d12	37:47	00:00	0	114243 ✓		42035			AVV	M
268					268.0000		268.0000				
	Noise	00:00	00:00	0	63		25				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene	41:13	00:00	0	63528 ✓		16139			ABV	
	Benzo(ghi)perylene	42:14	00:00	0	60956 ✓		16300			ABB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	25		10				
	Dibenz(a,h)anthracene	41:13	00:00	0	52185 ✓		15471			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	25		10				
	Indeno(1,2,3-cd)pyrene-	41:08	00:00	0	99647 ✓		23693			ABV	
	Benzo(ghi)Perylene-d12	42:07	00:00	0	71792 ✓		18963			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	25		10				
	Dibenz(ah)Anthracene-dl	41:07	00:00	0	51536 ✓		14853			ABB	
302					302.0000		302.0000				
	Noise	00:00	00:00	0	13		5				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	10		4				

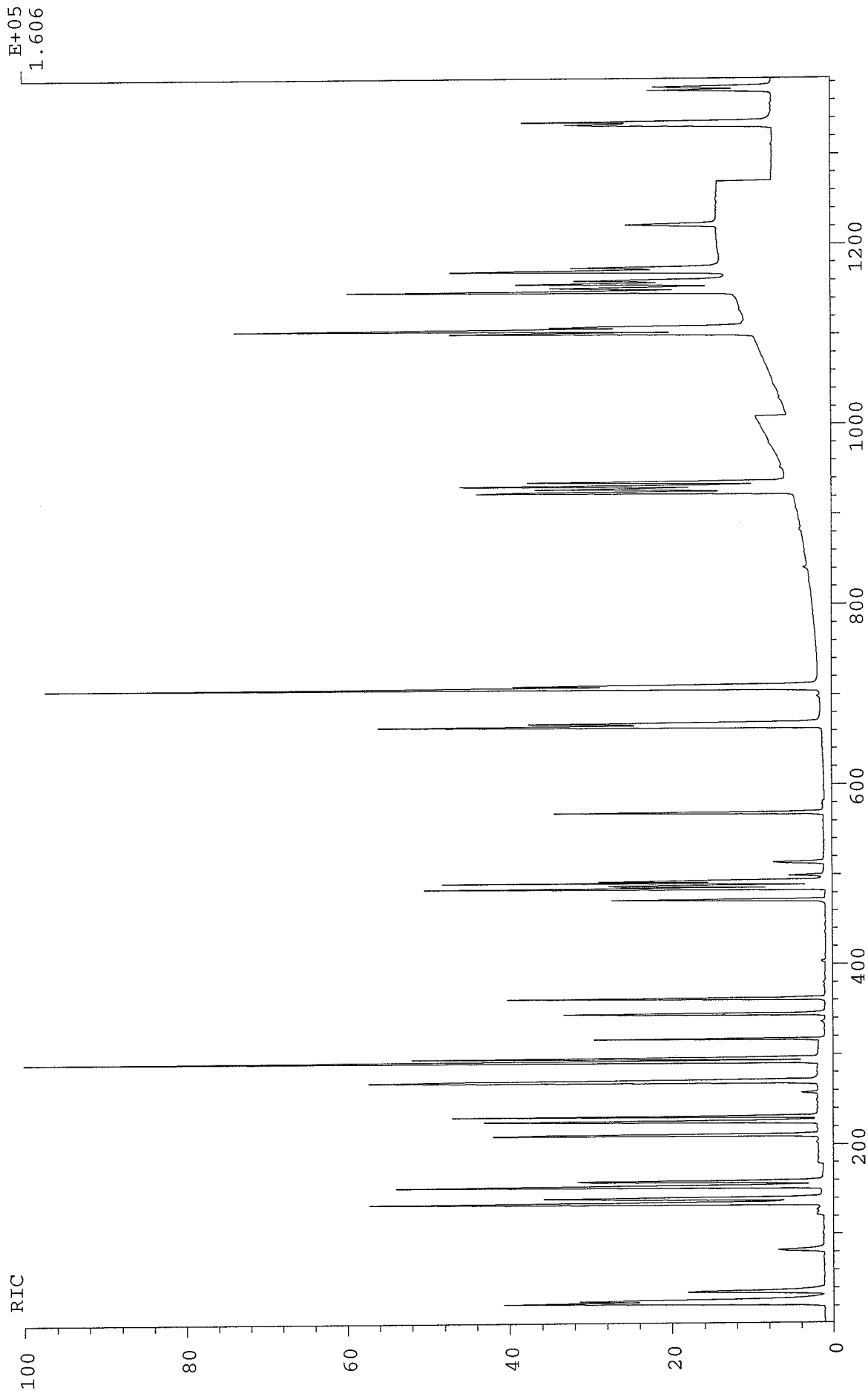
Notes:

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

CHRO: Y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1 > 1384
Area: 5, 0.50, 0 Baseline : 100, 3
Disp: Height Area

Elapse: 15:36.1 1
Start : 17:33:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : 0, 0.0

but Cali: 4/10/06
QC JMK 4/10/06

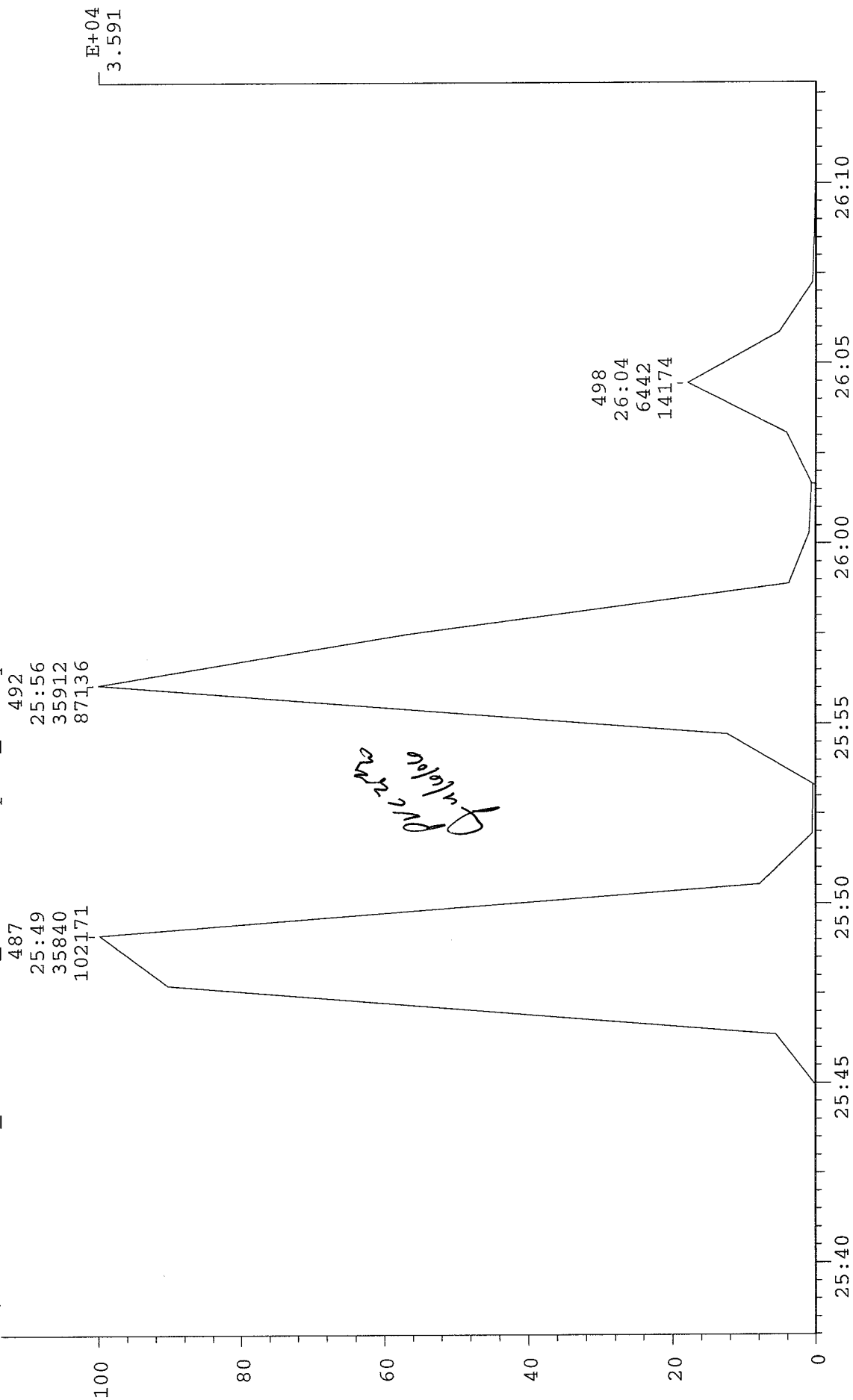


CHRO: Y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 49:19 1735
Start : 17:33:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

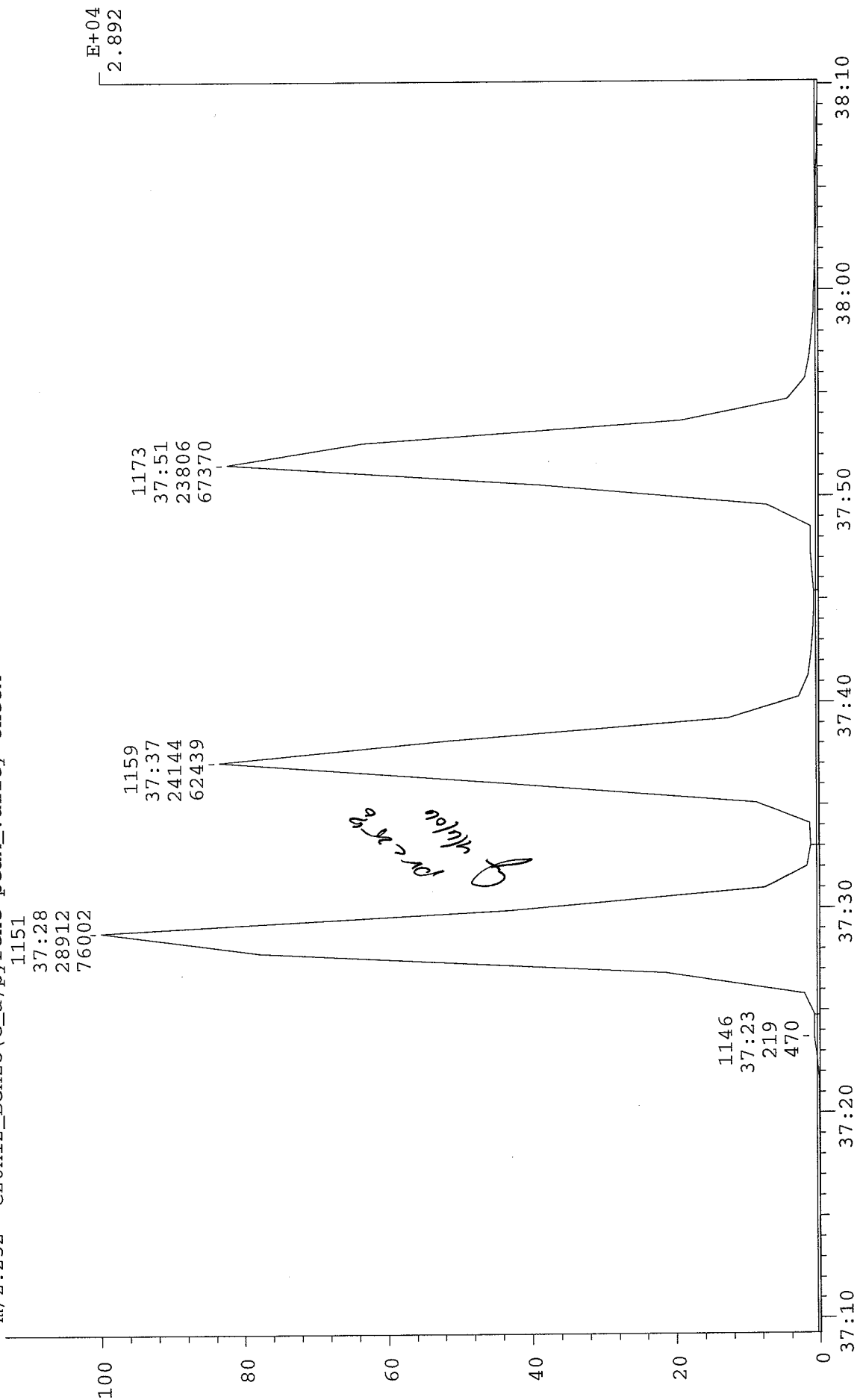
m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"



CHRO: y060405i3
Samp: W0=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 49:19 1735
Start : 17:33:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"

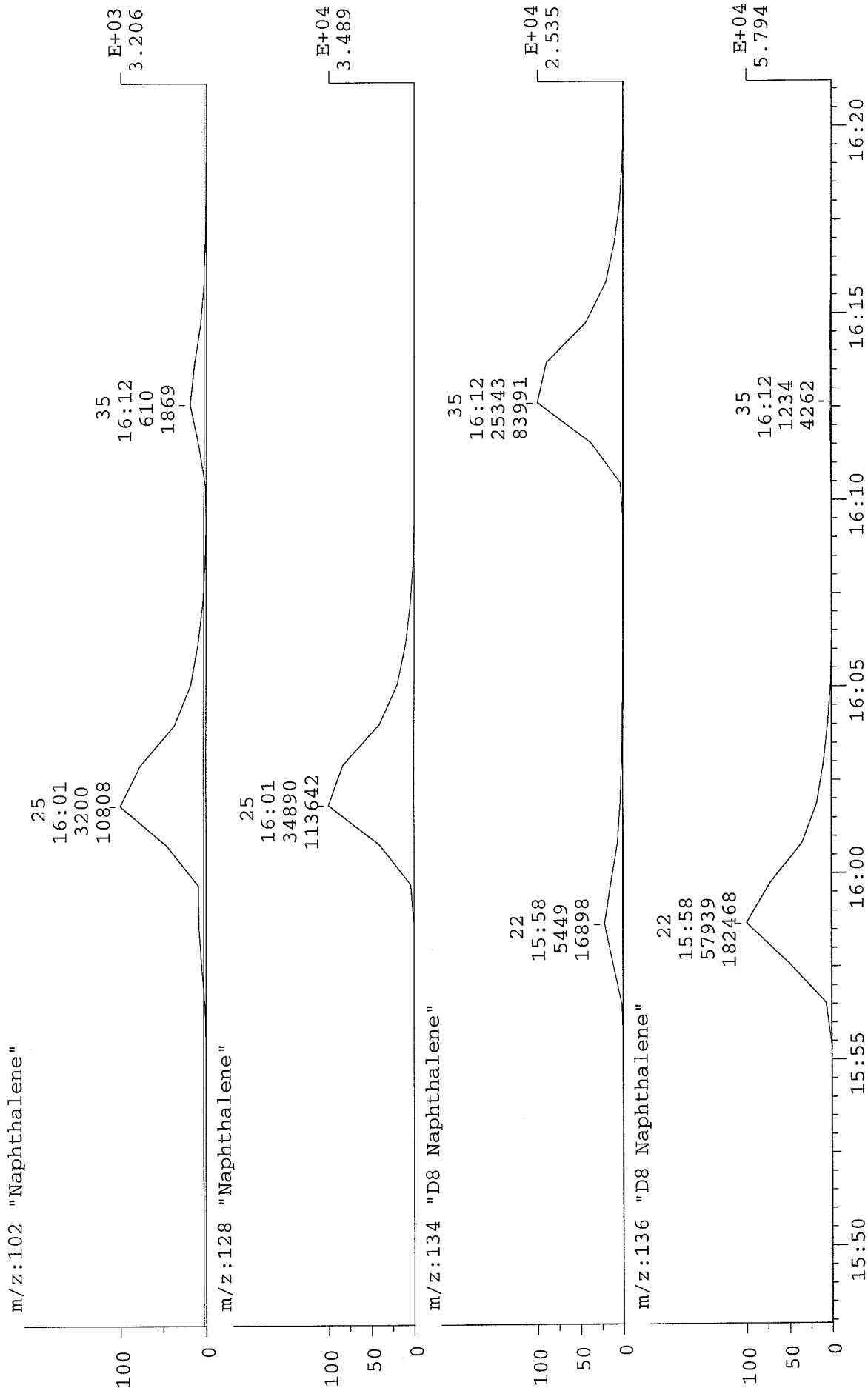


CHRO: Y060405i3
 Samp: WO=3377:01_3 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 12 > 43
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06

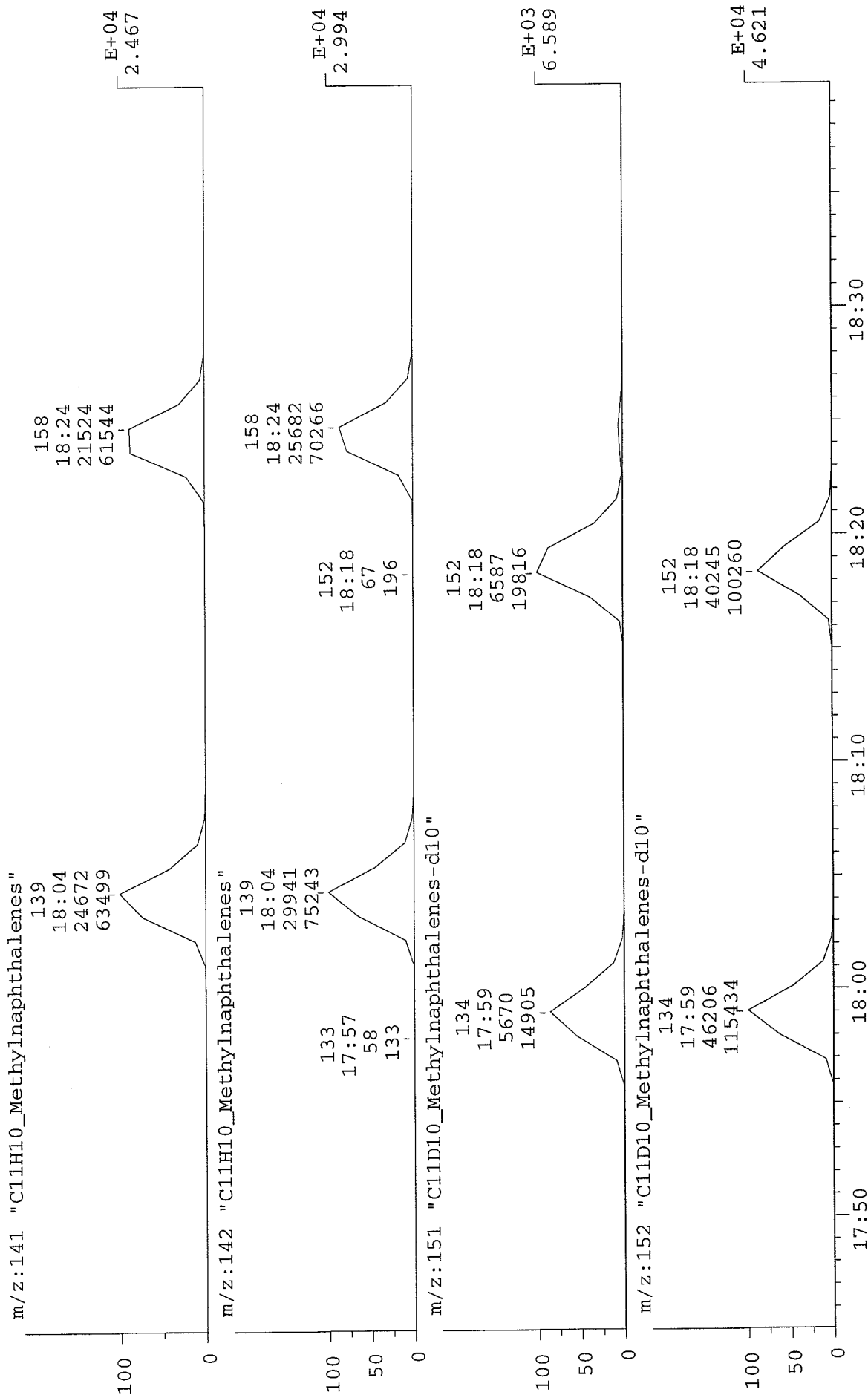
Elapse: 49:19 1735
 Start : 17:33:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=200604051 Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06

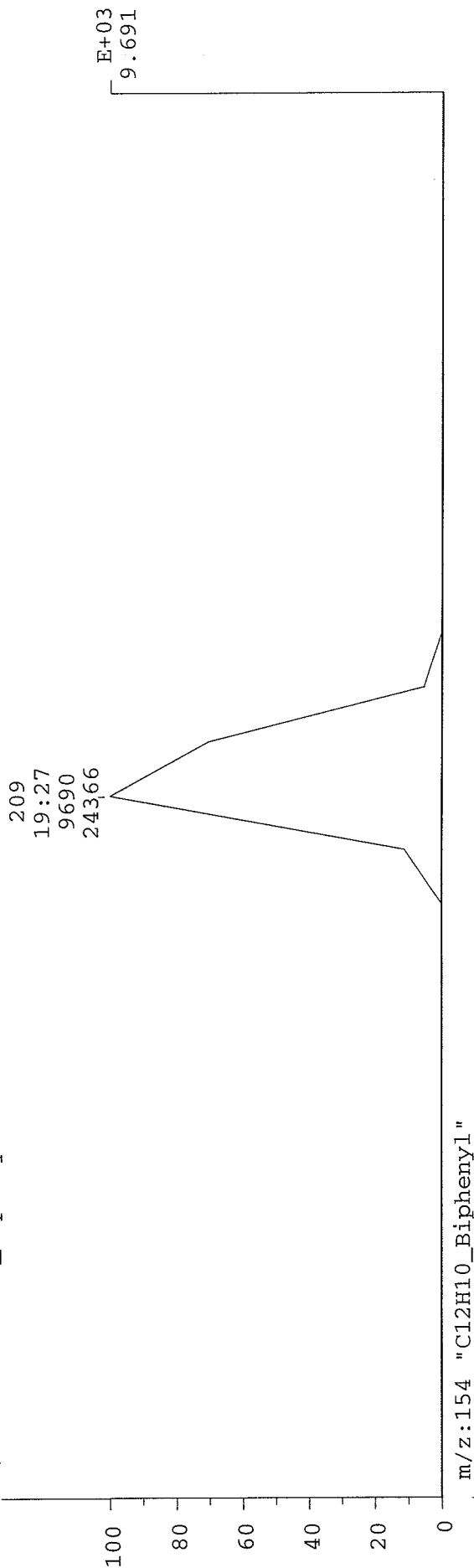
Elapse: 49:19 1735
Start : 17:33:00 1384Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

CHRO: Y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 196 > 222
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

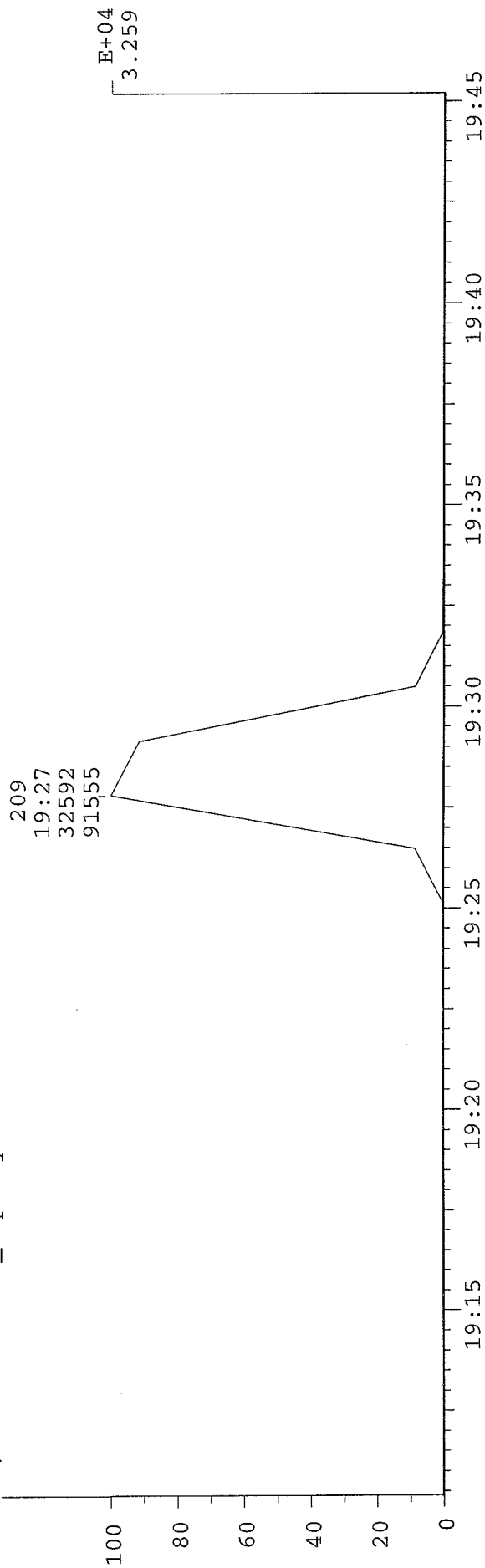
05-APR-06 Elapse: 49:19 1735
Start : 17:33:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:152 "C12H10_Biphenyl"



m/z:154 "C12H10_Biphenyl"



CHRO: Y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 49:19 1735
Start : 17:33:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"



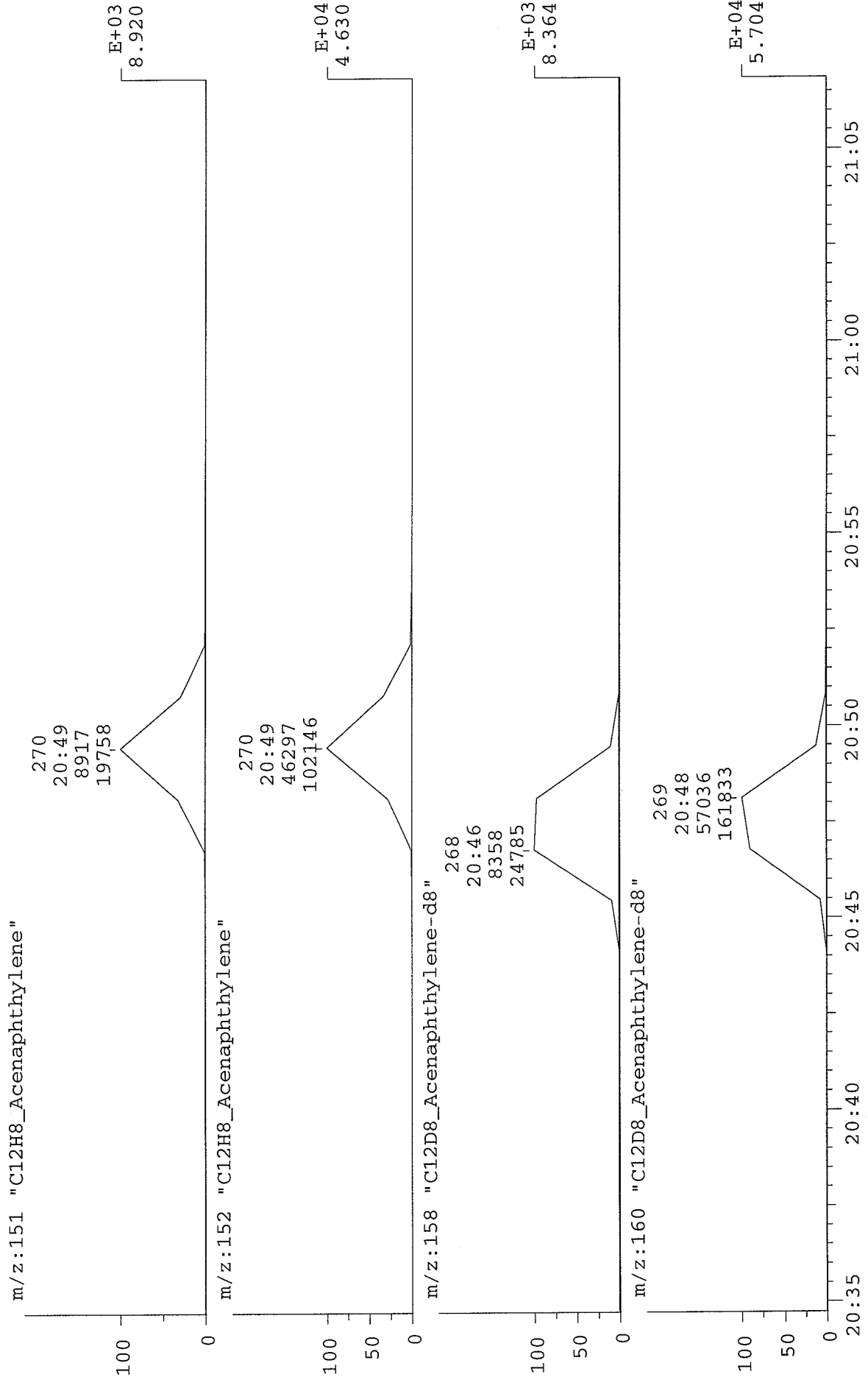
m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



19:40 19:45 19:50 19:55 20:00 20:05

CHRO: Y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 49:19 1735
Start : 17:33:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



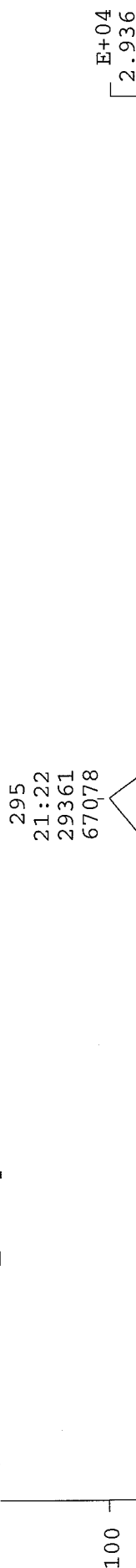
CHRO: Y060405i3
 Samp: WO=3377:01_3 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 283 > 307
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06

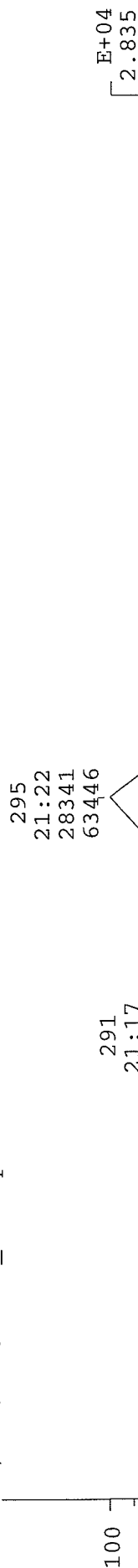
Elapse: 49:19 1735
 Start : 17:33:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:153 "C12H10_Acenaphthene"



m/z:154 "C12H10_Acenaphthene"



m/z:163 "C12D10_Acenaphthene"



m/z:164 "C12D10_Acenaphthene"



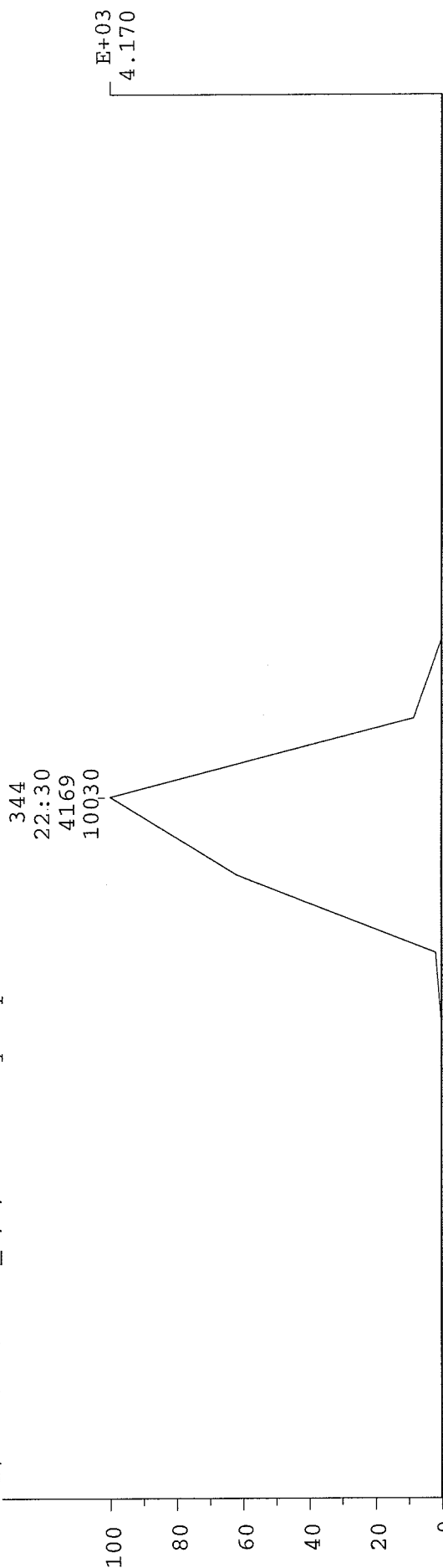
21:10 21:15 21:20 21:25 21:30 21:35

CHRO: y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

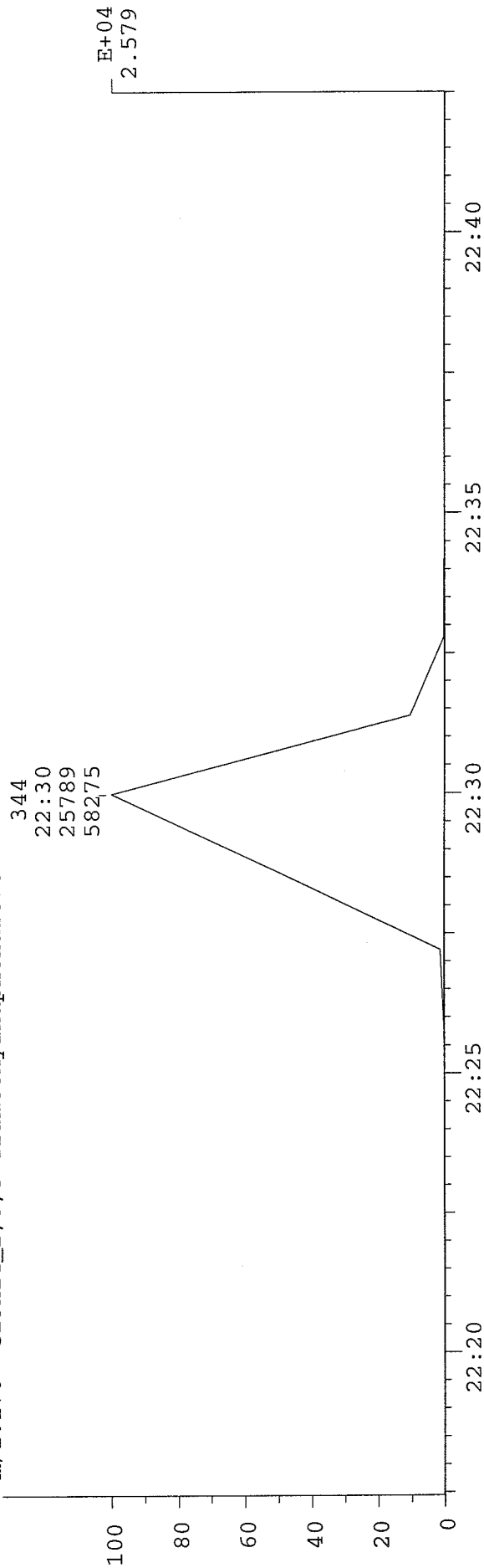
05-APR-06 Elapse: 49:19 1735
Start : 17:33:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"

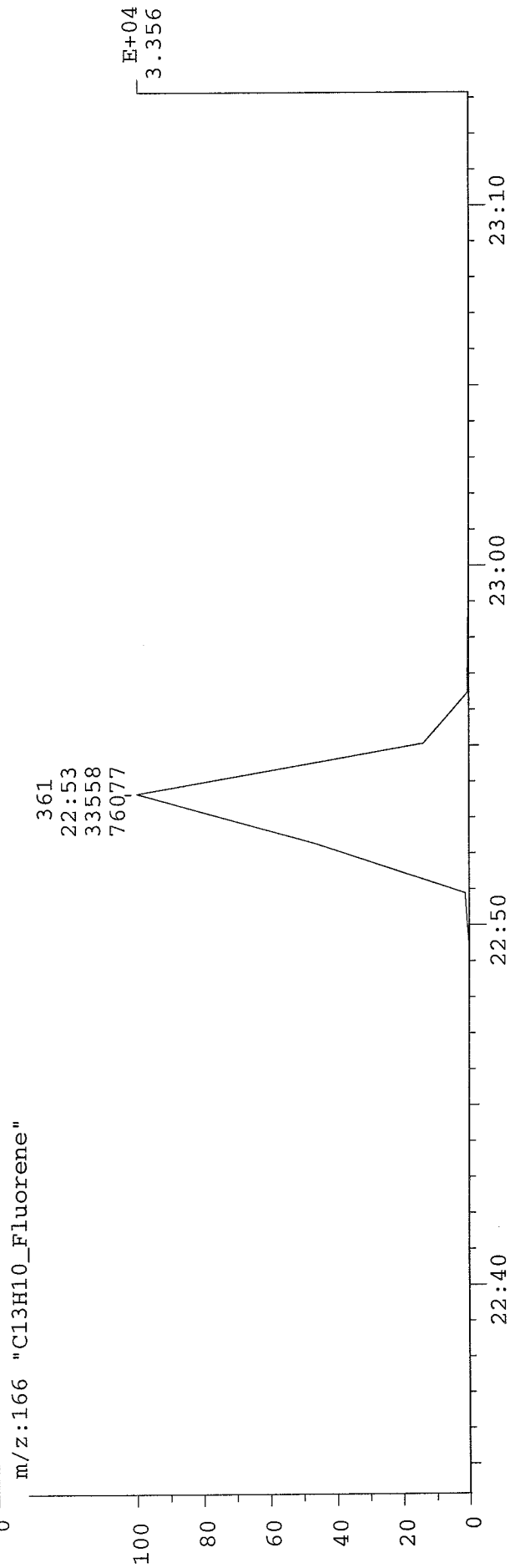
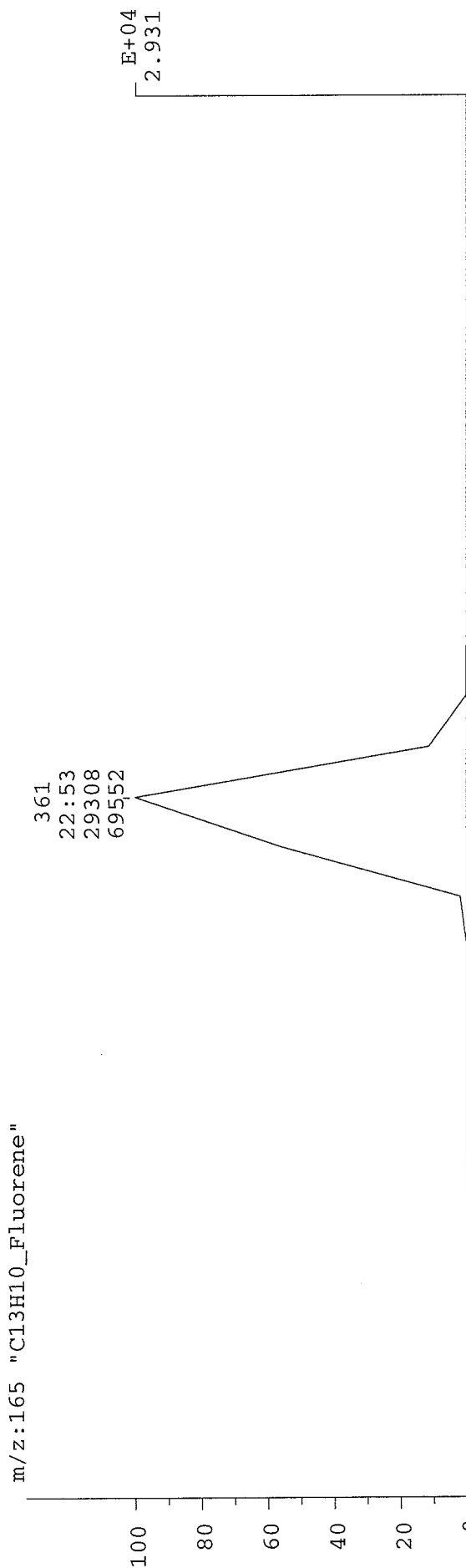


m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"



CHRO: Y060405i3
 Samp: WO=3377:01_3 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 347 > 375
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06 Elapse: 49:19 1735
 Start : 17:33:00 1384
 Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

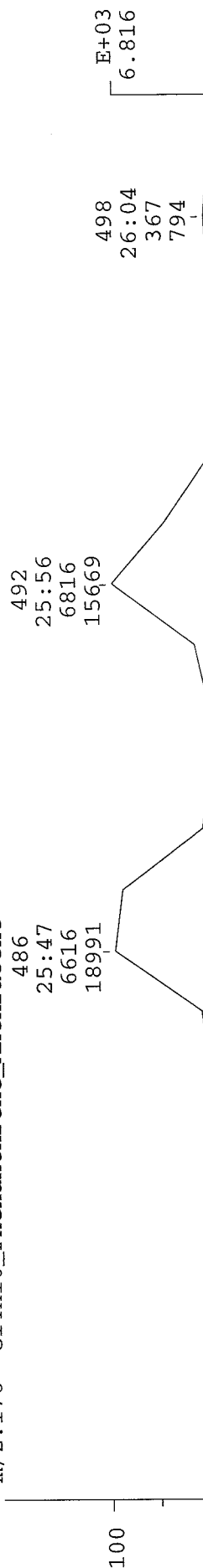


CHRO: Y060405i3
 Samp: WO=3377:01_3 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 477 > 500
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

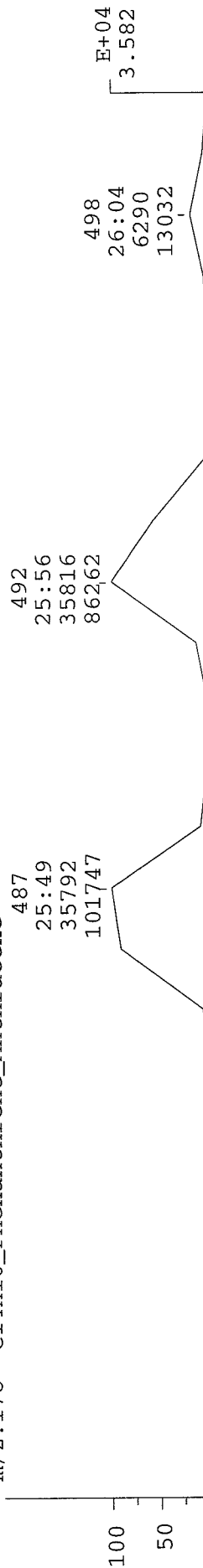
05-APR-06 Elapse: 49:19 1735
 Start : 17:33:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

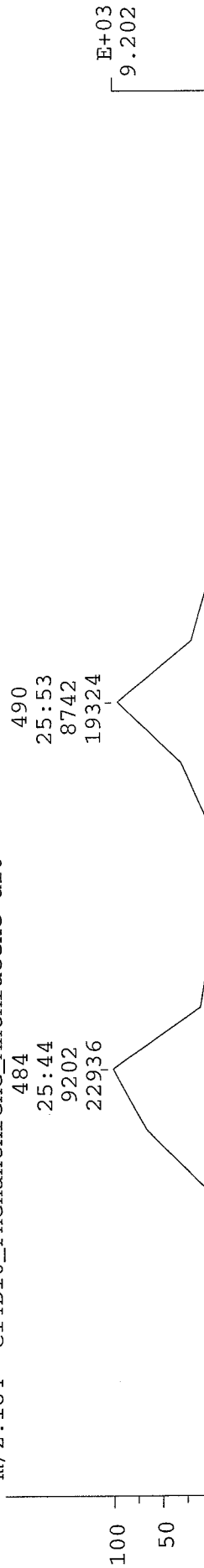
m/z:176 "C14H10_Phenanthrene_Anthracene"



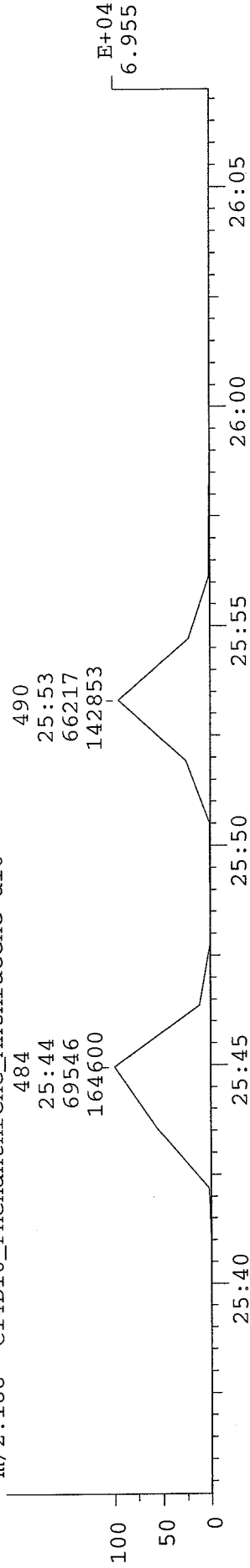
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



m/z:188 "C14D10_Phenanthrene_Anthracene-d10"

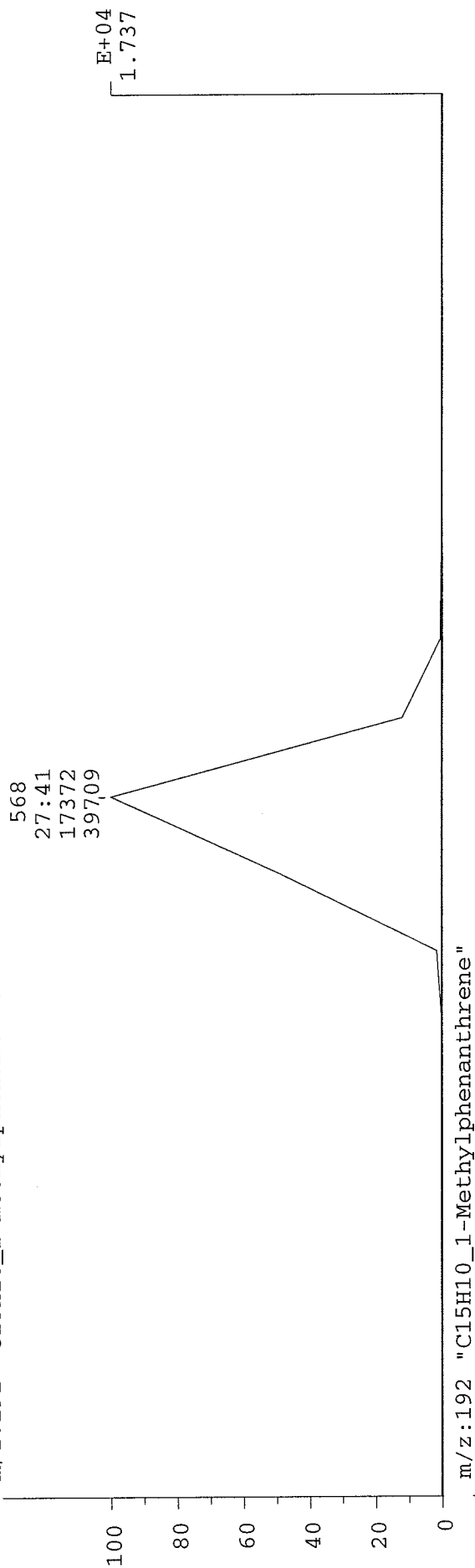


CHRO: y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

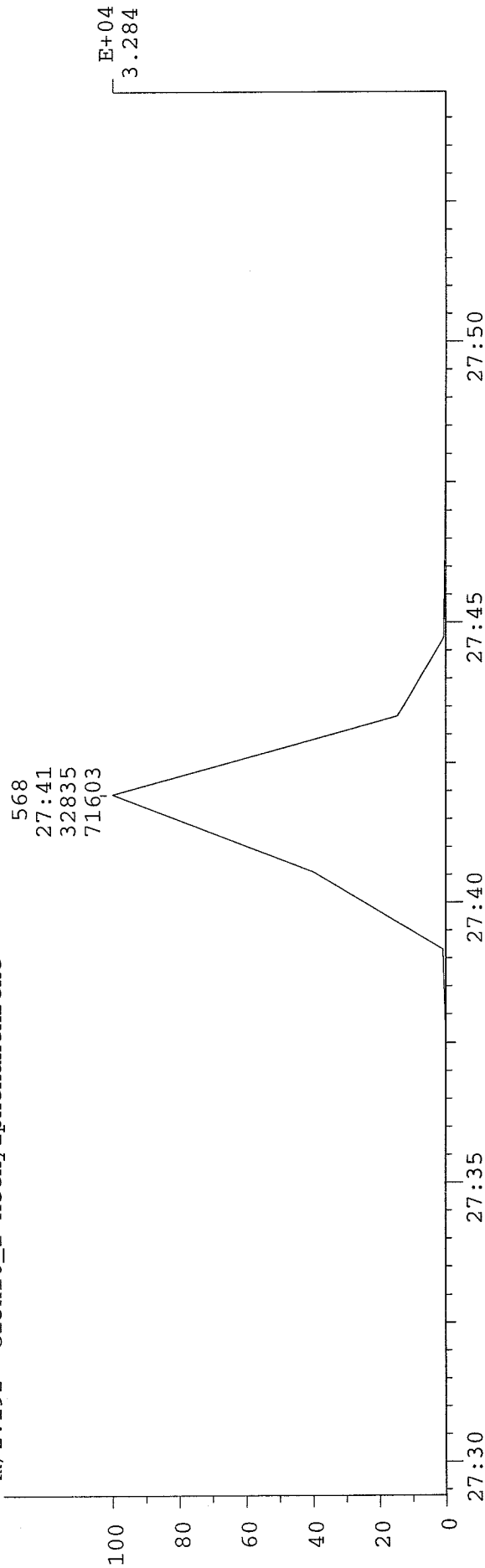
05-APR-06 Elapse: 49:19 1735
Start : 17:33:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 648 > 725
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 49:19 1735
Start : 17:33:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:200 "C16H10_Fluoranthene_Pyrene"



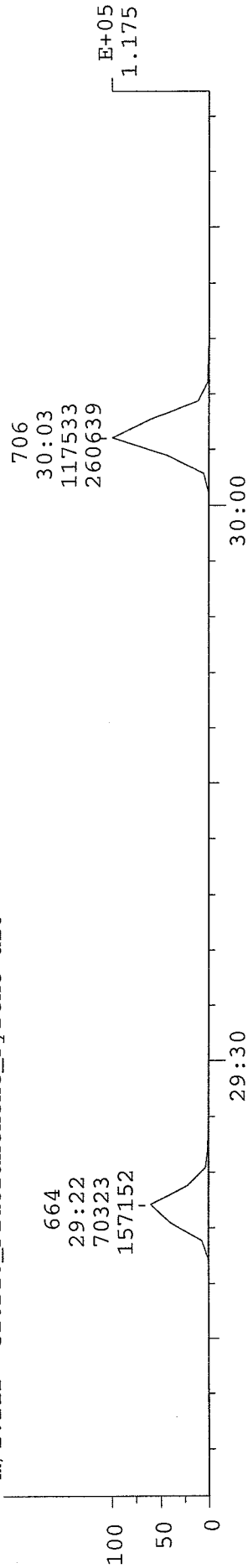
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 "C16D10_Fluoranthene_Pyrene-d10"



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"

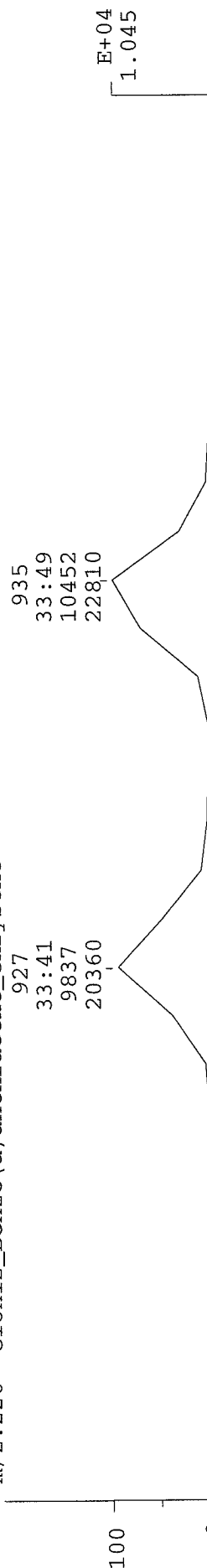


CHRO: Y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 916 > 945
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

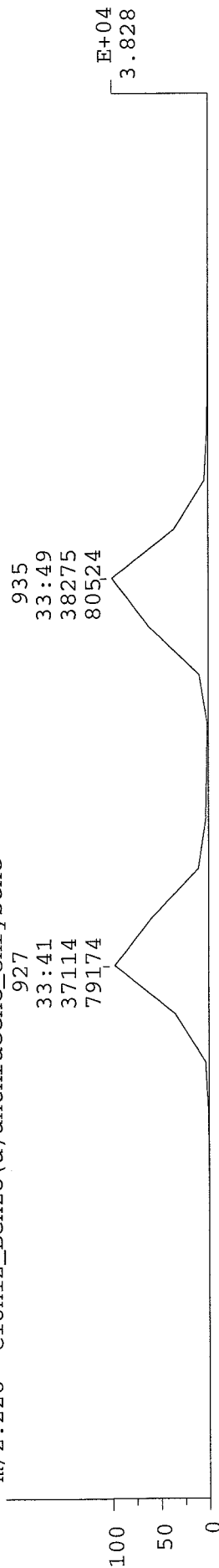
05-APR-06 Elapse: 49:19 1735
Start : 17:33:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

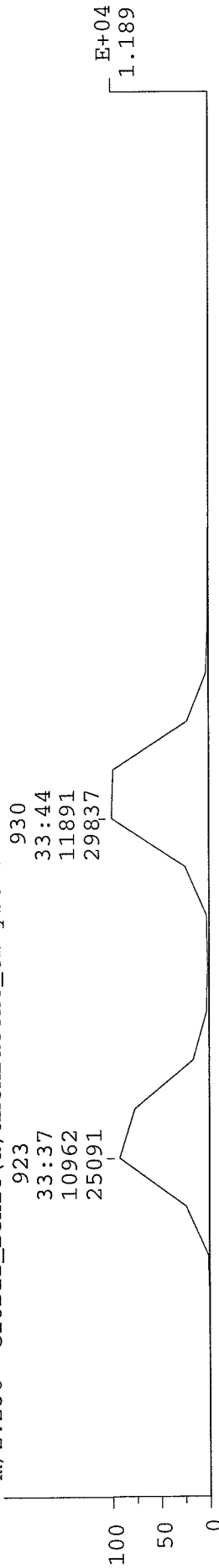
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



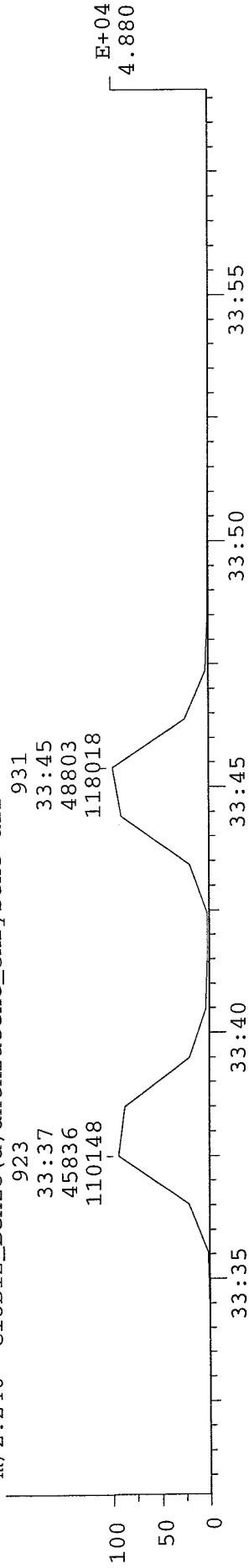
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"

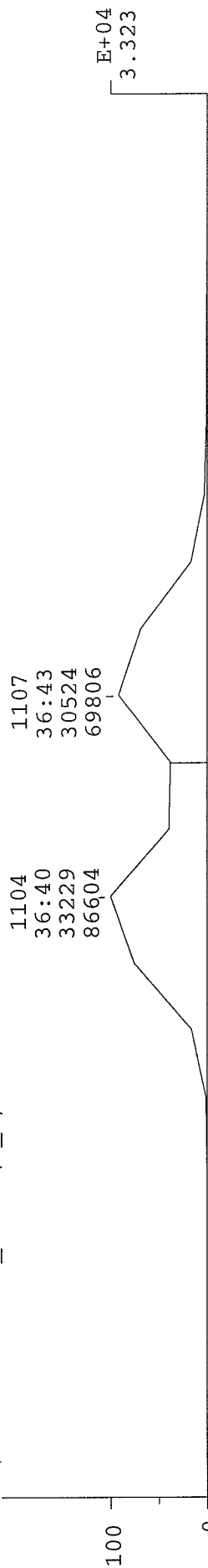


CHRO: y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1095 > 1116
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

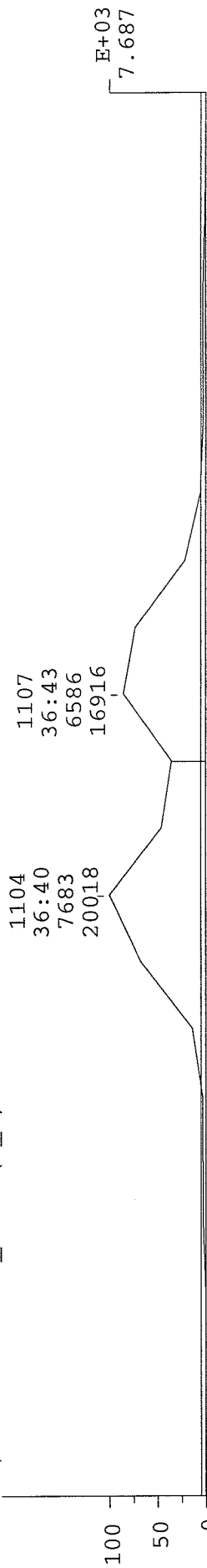
05-APR-06 Elapse: 49:19 1735
Start : 17:33:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

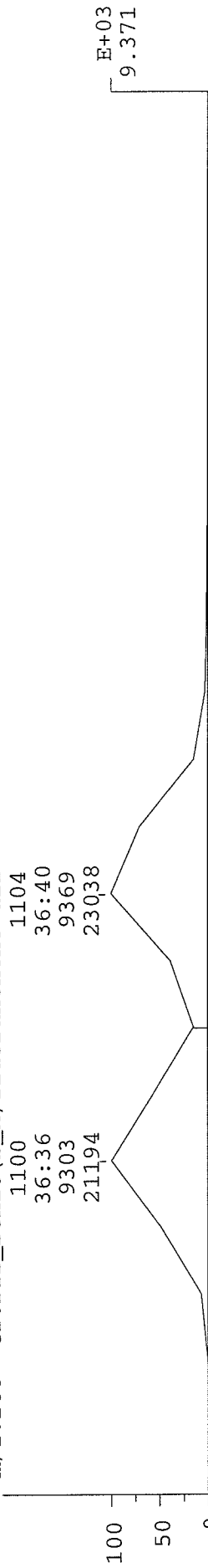
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



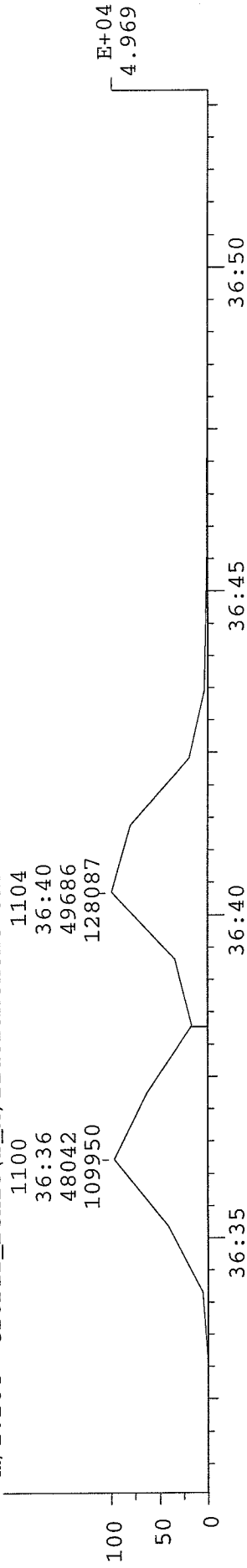
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"

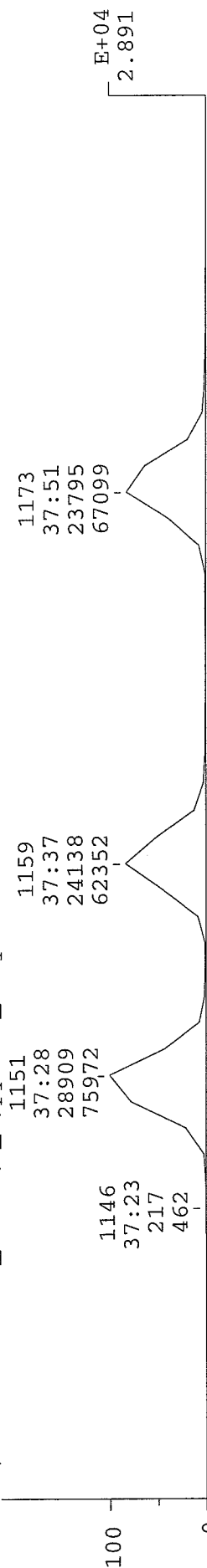


CHRO: Y060405i3
 Samp: WO=3377:01_3 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1135 > 1188
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

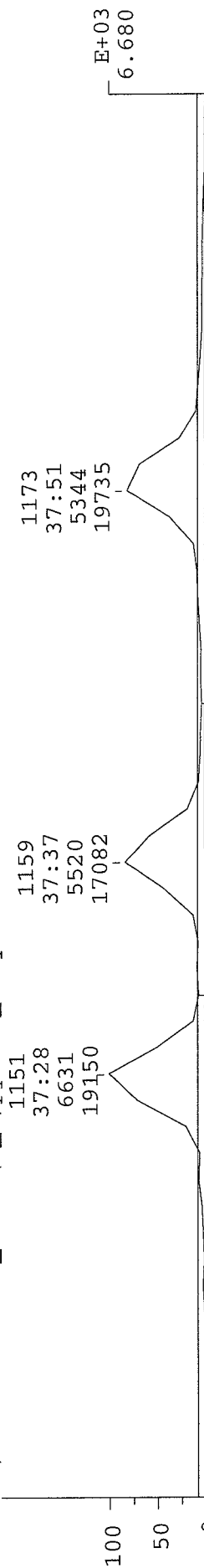
Elapse: 49:19 1735
 Start : 17:33:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



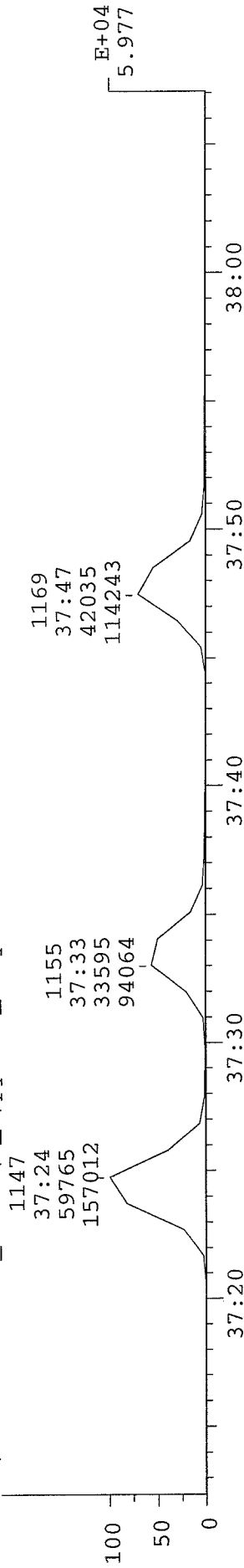
m/z:253 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



CHRO: Y060405i3

Samp: WO=3377:01_3 Meth=YA1 Dil=1

Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD

Mode: EI +VE + LMR (LIN) UP LR NETCDF

Oper: JMN Client: STL Knoxville

Peak: 100.00 ppm Label wndw: 1321 > 1387

Area: 5, 0.50, 15 Baseline : 100, 1

Disp: Height Area

05-APR-06 Elapse: 49:19 1735

Start : 17:33:00 1384

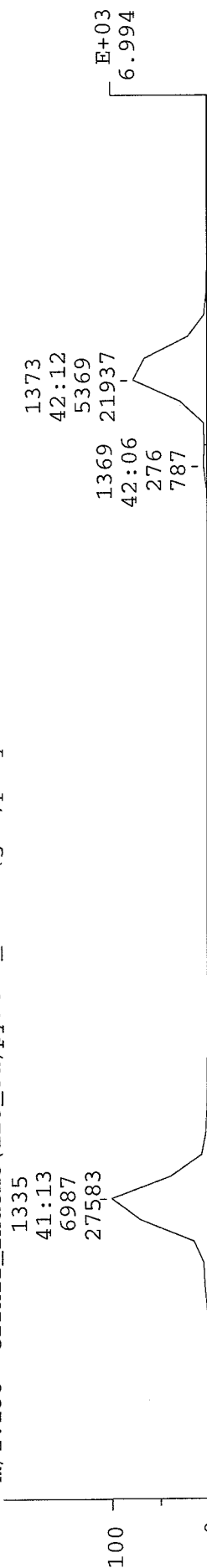
Study : 3377:01 Initial Cali

Inlet :

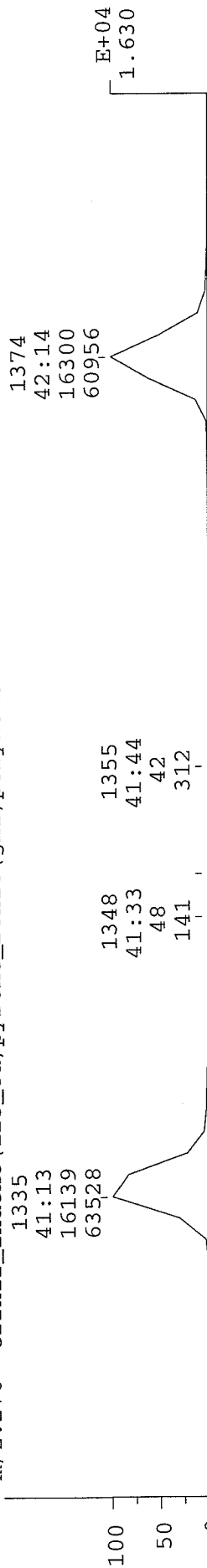
Masses: 0 > 308

Label : -2, 3.0

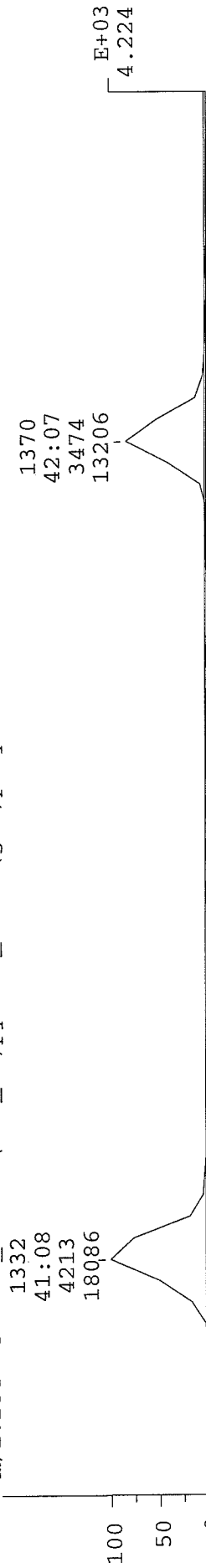
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



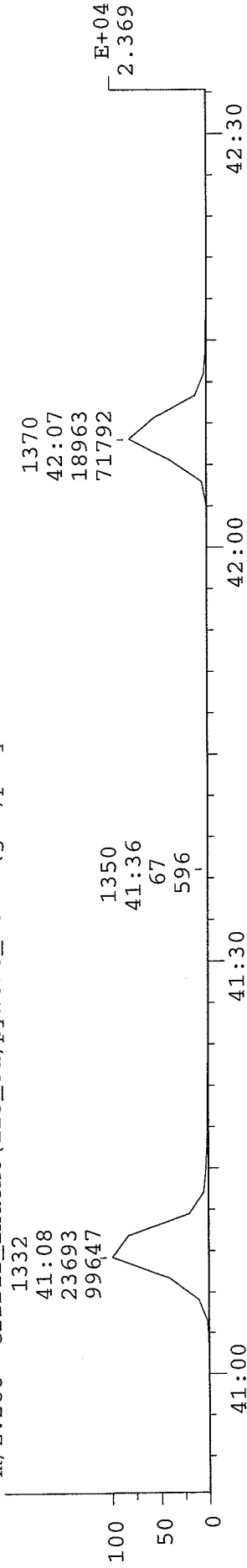
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



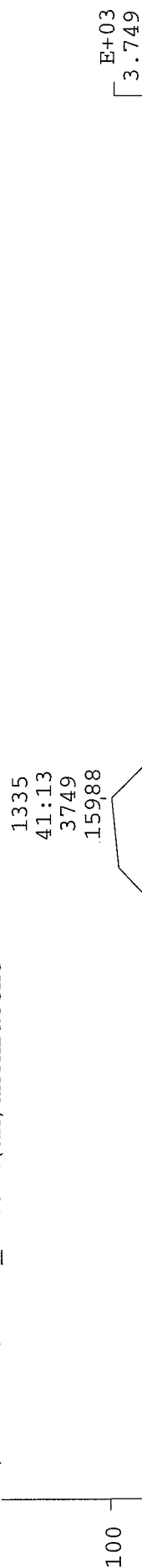
m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



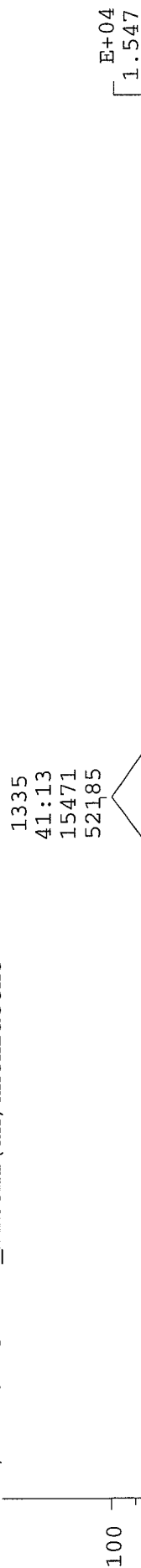
CHRO: y060405i3
Samp: WO=3377:01_3 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 49:19 1735
Start : 17:33:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: Y60405I3.D
 Date Acquired: 5 Apr 2006 5:33 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060405I3
 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 05 20:05:28 2006
 d:\cdf\files\Y60405I3.CDF Translated at Wed Apr 05 20:05:28 2006 Elapsed: 0 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 5 14:32:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60405i3.dat
 NetCDF File (input): /usr/users/hp/data/y60405i3.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 5 14:32:01 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



Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060405I/y060405i4.d	Prep Date	SDG No
Analysis ID 89894	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 18:23	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAL
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	162086	48903	1.000	500.0	929.488135	185.90	929.488135	0.375
Naphthalene	16:01	190471	54362	1.000	500.0	587.561541	117.51	587.561541	0.204
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	500.0			ND	0.000000
2-Methylnaphthalene	18:04	125428	50758	1.000	500.0	614.385360	122.88	614.385360	0.213
2-Methylnaphthalene-d10	17:59	102076	41119	1.000	500.0	585.358581	117.07	585.358581	0.250
1-Methylnaphthalene	18:24	117138	44194	1.000	500.0	657.738697	131.55	657.738697	0.248
1-Methylnaphthalene-d10	18:18	89046	35280	1.000	500.0	510.637566	102.13	510.637566	0.250
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	19:27	152586	51937	1.000	500.0	747.413692	149.48	747.413692	0.699
2,6-Dimethylnaphthalene	19:56	109501	48255	1.000	500.0	602.633954	120.53	602.633954	1.36
2,6-Dimethylnaphthalene-d1	19:49	90852	40434	1.000	500.0	520.994139	104.20	520.994139	0.250
C2 Alkyl naphthalenes				1.000		602.633954		602.633954	1.12
Acenaphthylene	20:49	172320	77174	1.000	500.0	601.768428	120.35	601.768428	0.189
Acenaphthylene-d8	20:48	143178	52919	1.000	500.0	821.059513	164.21	821.059513	0.125
Acenaphthene-d10	21:17	87191	40025	1.000	500.0	500.000000	100.00	500.000000	0.156
Acenaphthene	21:23	106482	48066	1.000	500.0	371.851821	74.37	371.851821	0.543
2,3,5-Trimethylnaphthalene	22:30	98691	44493	1.000	500.0	543.141593	108.63	543.141593	0.216
C3 Alkyl naphthalenes				1.000		543.141593		543.141593	0.179
Fluorene d-10	22:48	118598	44133	1.000	500.0	405.391178	81.08	405.391178	0.103
Fluorene-C13	22:53	113754	54354	1.000	500.0	388.833438	77.77	388.833438	0.0824
Fluorene	22:53	133152	60157	1.000	500.0	455.139599	91.03	455.139599	0.185
Phenanthrene-d10	25:45	146276	60687	1.000	500.0	405.974888	81.19	405.974888	0.0924
Phenanthrene	25:49	174165	63052	1.000	500.0	595.330061	119.07	595.330061	0.185
Anthracene-d10	25:53	123794	57882	1.000	500.0	343.578272	68.72	343.578272	0.0924
Anthracene	25:56	149855	61734	1.000	500.0	512.233723	102.45	512.233723	0.185
1-Methylphenanthrene	27:42	124734	57326	1.000	500.0	426.365227	85.27	426.365227	0.227
Fluoranthene-d10	29:22	140886	63533	1.000	500.0	391.015465	78.20	391.015465	0.123
Fluoranthene	29:25	183544	84284	1.000	500.0	651.391906	130.28	651.391906	0.118
Pyrene-d10	30:03	180154	81148	1.000	500.0	500.000000	100.00	500.000000	0.123
Pyrene	30:06	186808	84193	1.000	500.0	662.975739	132.60	662.975739	0.118
Terphenyl-d14	30:31	106977	51001	1.000	500.0	379.658021	75.93	379.658021	0.0393
Benzo(a)Anthracene-d12	33:37	100009	42108	1.000	500.0	277.565305	55.51	277.565305	0.139
Benzo(a)anthracene	33:41	141737	67466	1.000	500.0	708.621224	141.72	708.621224	0.237
Chrysene-d12	33:44	108017	42689	1.000	500.0	299.790735	59.96	299.790735	0.139
Chrysene	33:49	142271	66655	1.000	500.0	658.558375	131.71	658.558375	0.234
Benzo(b)Fluoranthene-d12	36:36	100362	43926	1.000	500.0	448.910399	89.78	448.910399	0.640
Benzo(k)Fluoranthene-d12	36:40	117440	46038	1.000	500.0	525.298791	105.06	525.298791	0.640
Benzo(b)fluoranthene	36:40	129135	56688	1.000	500.0	643.346087	128.67	643.346087	0.683
Benzo(k)fluoranthene	36:43	145786	54829	1.000	500.0	620.682902	124.14	620.682902	0.652
Benzo(e)pyrene-d12	37:24	111784	41023	1.000	500.0	500.000000	100.00	500.000000	0.640
Benzo(e)pyrene	37:28	132423	50178	1.000	500.0	764.655272	152.93	764.655272	0.960
Benzo(a)Pyrene-d12	37:33	86590	31262	1.000	500.0	387.309454	77.46	387.309454	0.640
Benzo(a)pyrene	37:37	111515	43535	1.000	500.0	643.925396	128.79	643.925396	0.960
Perylene-d12	37:47	104134	38032	1.000	500.0	465.782223	93.16	465.782223	0.640
Perylene	37:51	119365	44627	1.000	500.0	573.131734	114.63	573.131734	0.789
3-Methylcholanthrene				1.000	500.0			ND	0.986

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060405I/y060405i4.d	Prep Date	SDG No
Analysis ID 89894	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 18:23	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	41:07	47364	13557	1.000	500.0	211.855006	42.37	211.855006	0.244
Indeno(1,2,3-cd)pyrene-d12	41:08	91268	21957	1.000	500.0	408.233736	81.65	408.233736	0.244
Indeno(1,2,3-cd)pyrene	41:13	113108	29235	1.000	500.0	619.647631	123.93	619.647631	0.569
Dibenz(a,h)anthracene	41:13	92205	26944	1.000	500.0	973.365847	194.67	973.365847	1.20
Benzo(ghi)Perylene-d12	42:07	66115	17550	1.000	500.0	295.726580	59.15	295.726580	0.244
Benzo(ghi)perylene	42:14	105903	28803	1.000	500.0	800.899947	160.18	800.899947	0.712
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	500.0			ND	0.000000

PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060405I/y060405i4.d	Prep Date	SDG No
Analysis ID 89894	Prep Exp Date	Date Received
Analysis Date 04/05/06 18:23	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	16:01	00:00	0	190471		54362			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	30		12				
	Naphthalene-d8	15:58	00:00	0	162086		48903			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene	18:04	00:00	0	125428		50758			AVV	
	1-Methylnaphthalene	18:24	00:00	0	117138		44194			AVB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene-d10	17:59	00:00	0	102076		41119			ABV	
	1-Methylnaphthalene-d10	18:18	00:00	0	89046		35280			AVB	
	Acenaphthylene	20:49	00:00	0	172320		77174			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	58		23				
	Biphenyl	19:27	00:00	0	152586		51937			ABB	
	Acenaphthene	21:23	00:00	0	106482		48066			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	110		44				
	2,6-Dimethylnaphthalene	19:56	00:00	0	109501		48255			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:48	00:00	0	143178		52919			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	13		5				
	Acenaphthene-d10	21:17	00:00	0	87191		40025			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	23		9				
	Fluorene	22:53	00:00	0	133152		60157			AVB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	20		8				
	2,6-Dimethylnaphthalene	19:49	00:00	0	90852		40434			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	18		7				
	2,3,5-Trimethylnaphthal	22:30	00:00	0	98691		44493			ABB	M
172					172.0000		172.0000				
	Noise	00:00	00:00	0	10		4				

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

PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060405I/y060405i4.d	Prep Date	SDG No
Analysis ID 89894	Prep Exp Date	Date Received
Analysis Date 04/05/06 18:23	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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-Cl3	22:53	00:00	0	113754 ✓		54354			ABV	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	13		5				
	Fluorene d-10	22:48	00:00	0	118598 ✓		44133			ABV	M
	Unidentified	26:24	00:00	0	1465		568			AVV	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	23		9				
	Phenanthrene	25:49	00:00	0	174165		63052			ABV	M
	Anthracene	25:56	00:00	0	149855		61734			AVV	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene-d10	25:45	00:00	0	146276		60687			ABV	M
	Anthracene-d10	25:53	00:00	0	123794		57882			AVB	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	28		11				
	1-Methylphenanthrene	27:42	00:00	0	124734		57326			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	15		6				
	Fluoranthene	29:25	00:00	0	183544		84284			ABV	M
	Pyrene	30:06	00:00	0	186808		84193			ABV	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene-d10	29:22	00:00	0	140886		63533			ABV	
	Pyrene-d10	30:03	00:00	0	180154		81148			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	20		8				
	Benzo(a)anthracene	33:41	00:00	0	141737		67466			ABV	M
	Chrysene	33:49	00:00	0	142271		66655			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)Anthracene-d12	33:37	00:00	0	100009		42108			ABV	
	Chrysene-d12	33:44	00:00	0	108017		42689			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
	Terphenyl-d14	30:31	00:00	0	106977 ✓		51001			ABV	M
252					252.0000		252.0000				
	Noise	00:00	00:00	0	60		24				
	Benzo(b)fluoranthene	36:40	00:00	0	129135		56688			ABV	M
	Benzo(k)fluoranthene	36:43	00:00	0	145786		54829			AVB	M
	Benzo(e)pyrene	37:28	00:00	0	132423		50178			AVV	M
	Benzo(a)pyrene	37:37	00:00	0	111515		43535			AVV	M
	Perylene	37:51	00:00	0	119365		44627			AVB	M

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PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060405I/y060405i4.d	Prep Date	SDG No
Analysis ID 89894	Prep Exp Date	Date Received
Analysis Date 04/05/06 18:23	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

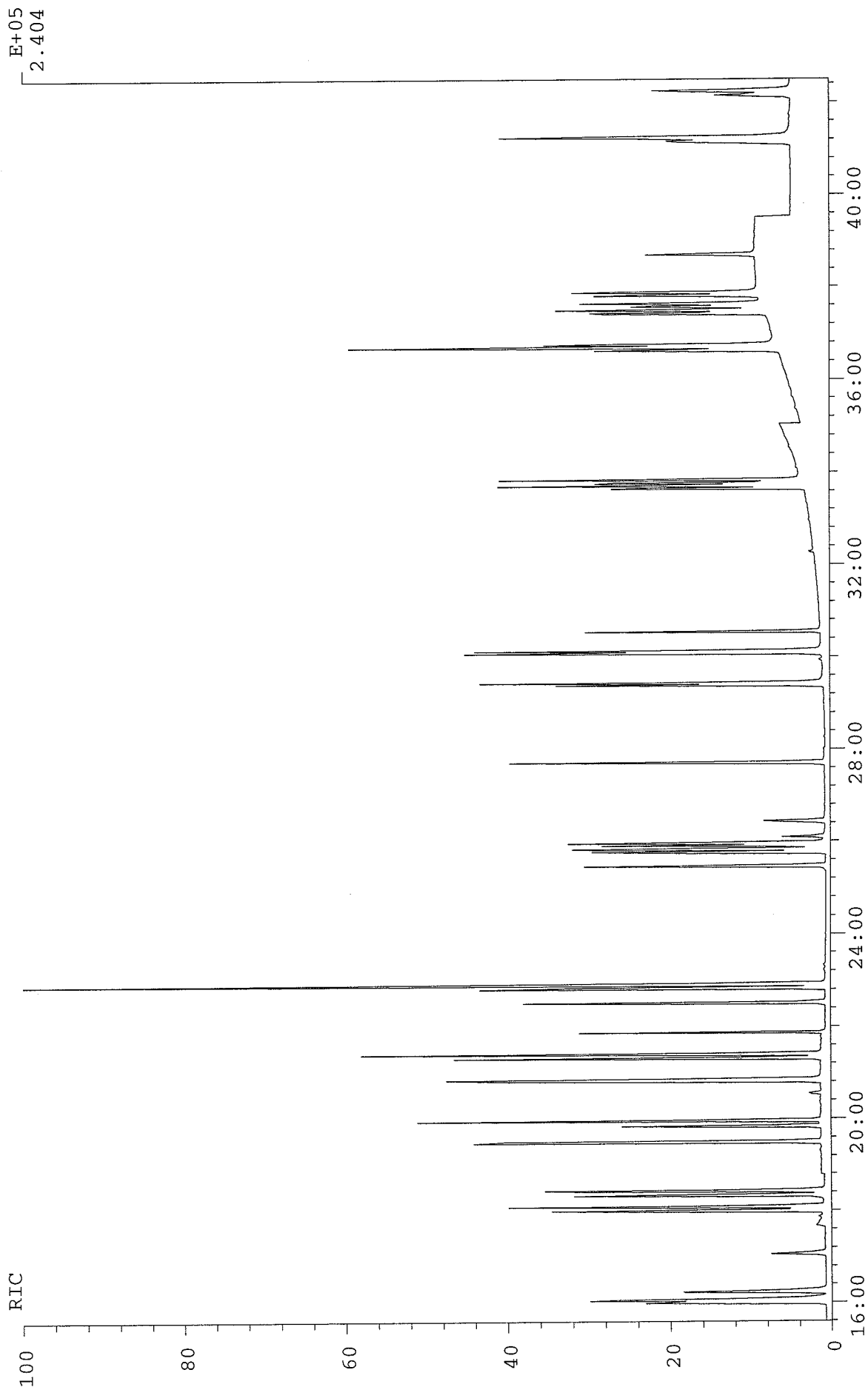
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Noise	00:00	00:00	0	53		21				
	Benzo(b)Fluoranthene-d1	36:36	00:00	0	100362		43926		ABV		M
	Benzo(k)Fluoranthene-d1	36:40	00:00	0	117440		46038		AVB		M
	Benzo(e)pyrene-d12	37:24	00:00	0	111784		41023		ABV		M
	Benzo(a)Pyrene-d12	37:33	00:00	0	86590		31262		AVV		M
	Perylene-d12	37:47	00:00	0	104134		38032		AVV		M
268					268.0000		268.0000				
	Noise	00:00	00:00	0	75		30				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	25		10				
	Indeno(1,2,3-cd)pyrene	41:13	00:00	0	113108		29235		ABV		
	Benzo(ghi)perylene	42:14	00:00	0	105903		28803		ABB		M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	33		13				
	Dibenz(a,h)anthracene	41:13	00:00	0	92205		26944		ABB		
288					288.0000		288.0000				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene-	41:08	00:00	0	91268		21957		ABV		
	Benzo(ghi)Perylene-d12	42:07	00:00	0	66115		17550		ABB		
292					292.0000		292.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(ah)Anthracene-d1	41:07	00:00	0	47364		13557		ABB		
302					302.0000		302.0000				
	Noise	00:00	00:00	0	13		5				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	13		5				

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

CHRO: Y060405i4
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1731 > 1739
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06
 Elapse: 49:19 1735
 Start : 18:23:00 1384
 Study : 3377:01 Initial Cal
 Inlet :
 Masses: 0 > 308
 Label : 0, 3.0

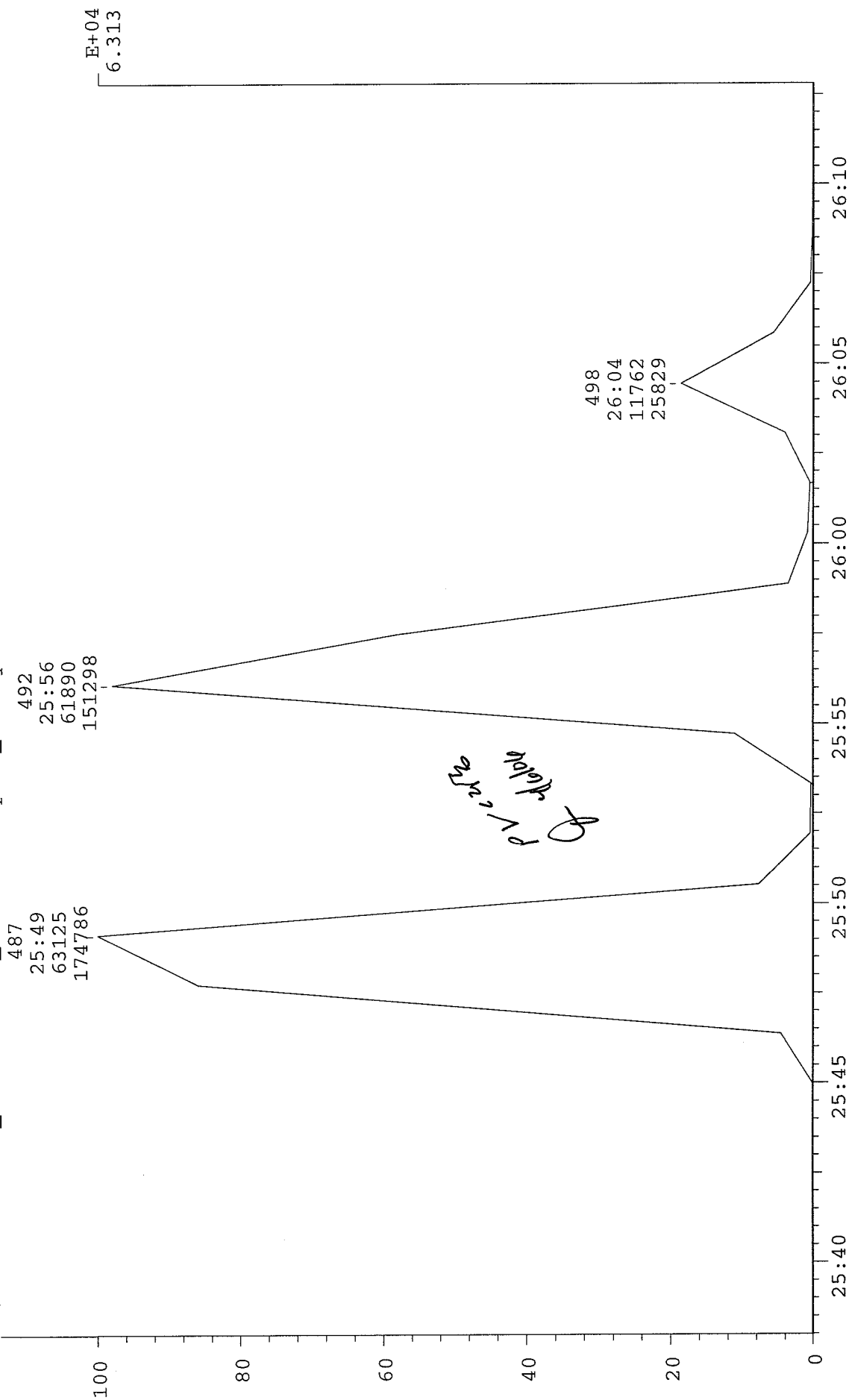
Int / Calc: 9/10/06
QC vmlc 4/10/06



CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"

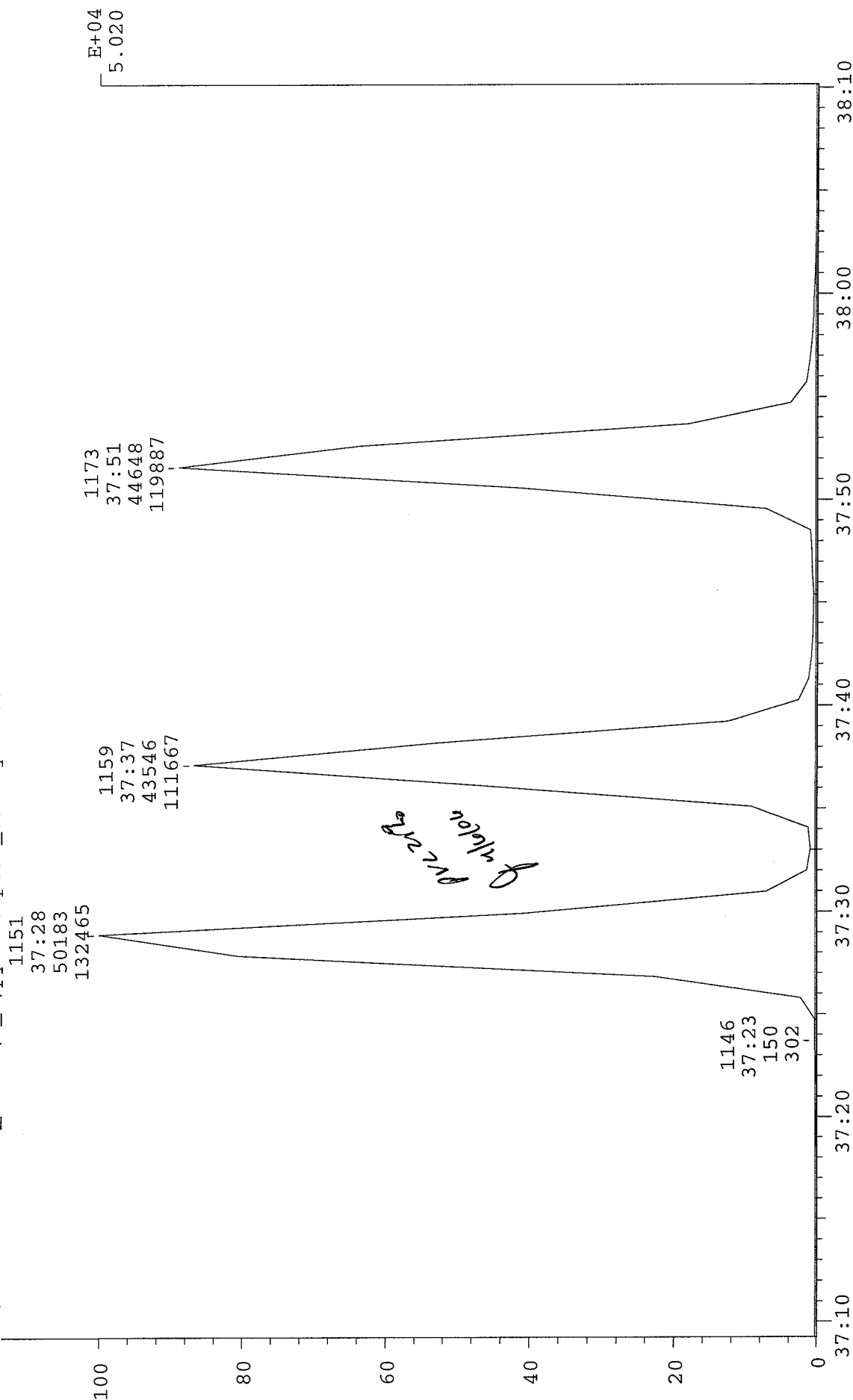


CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YAl Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

Elapse: 40:59 1326
Start : 18:23:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

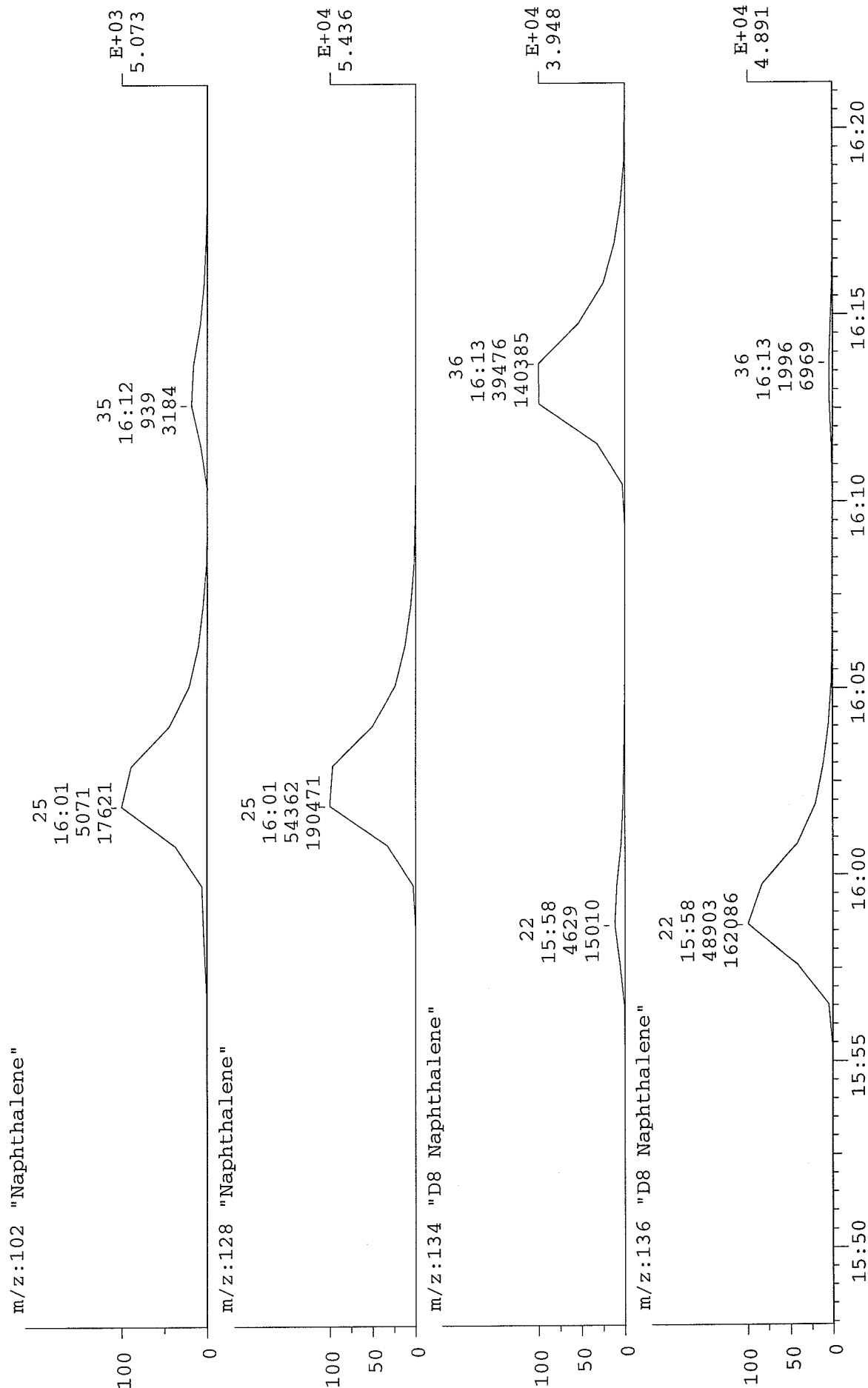
m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



CHRO: Y060405i4
Samp: W0=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

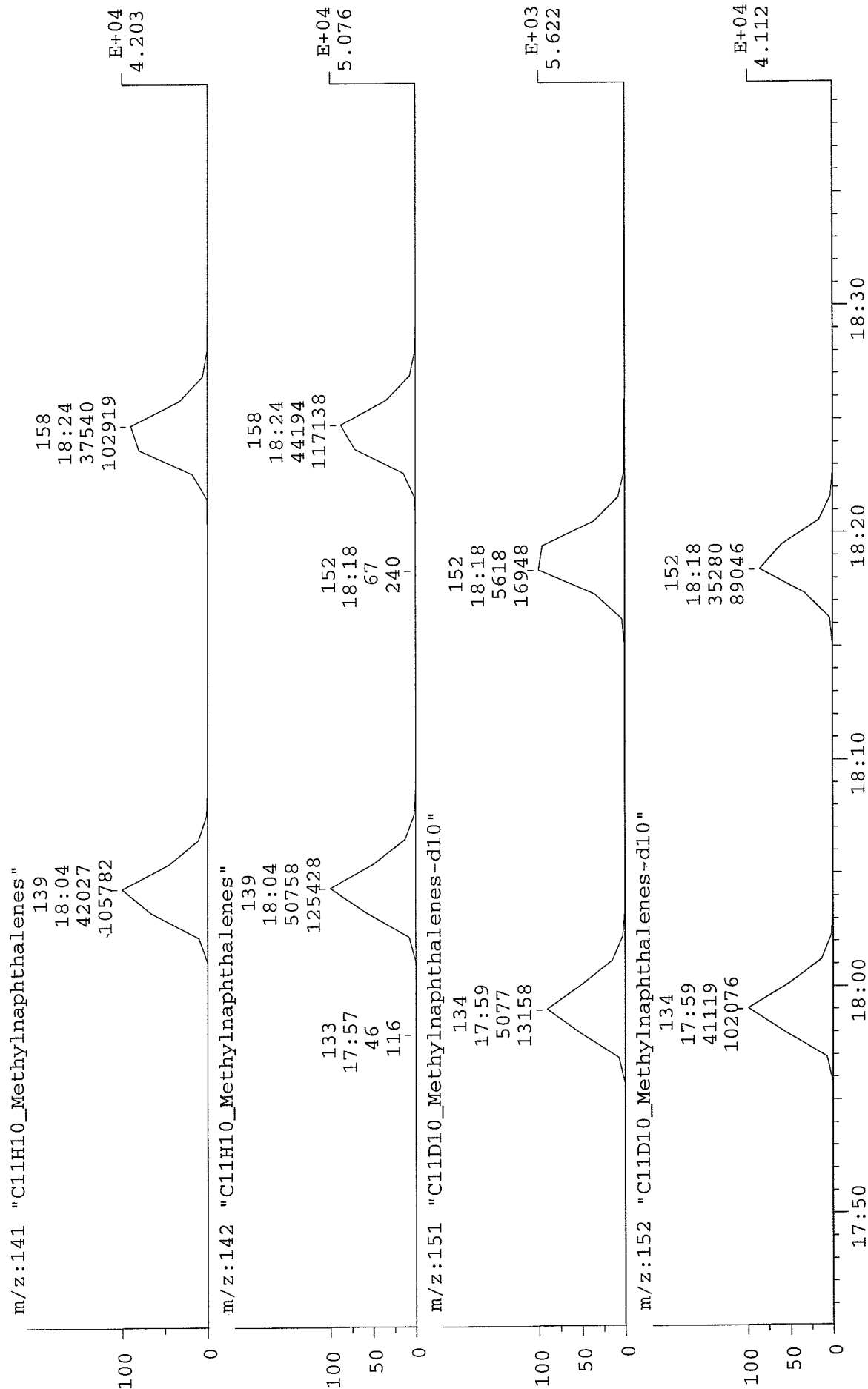
Elapse: 40:59 1326
Start : 18:23:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + IMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

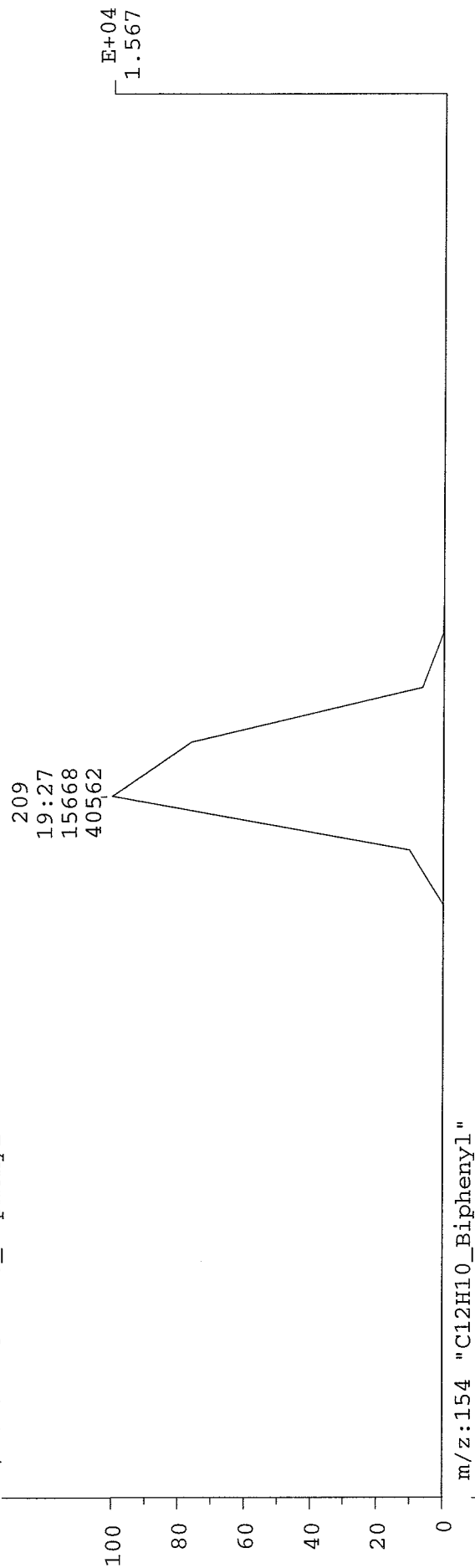
05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



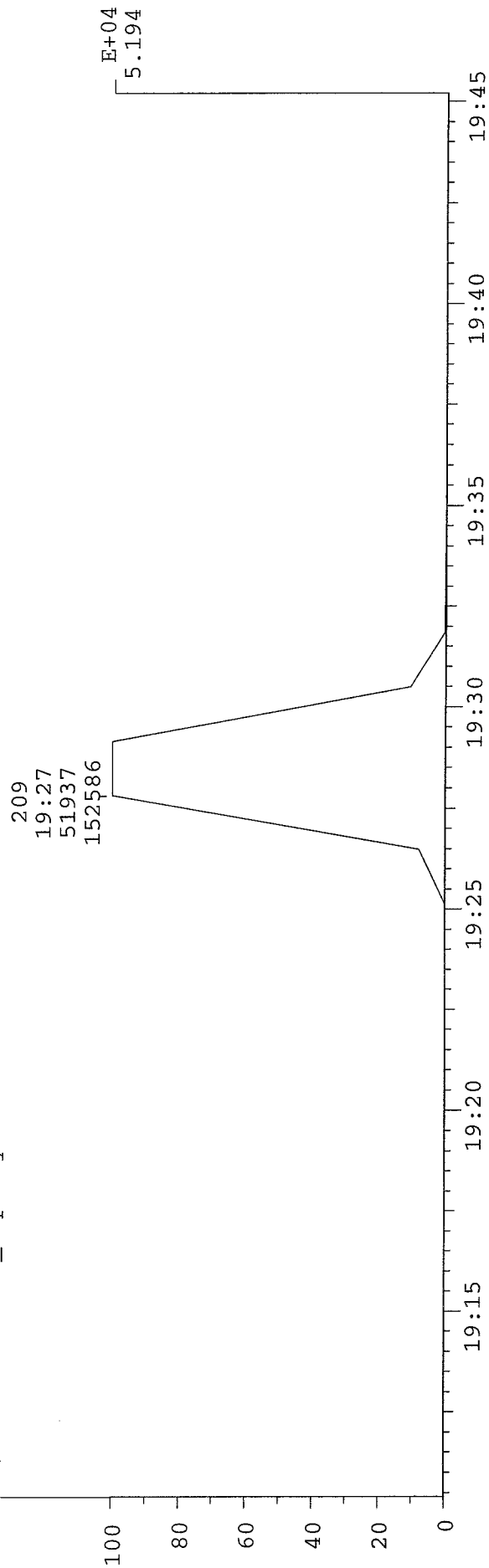
CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 196 > 222
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:152 "C12H10_Biphenyl"



m/z:154 "C12H10_Biphenyl"



CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 40:59 1326
Start : 18:23:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

05-APR-06

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"



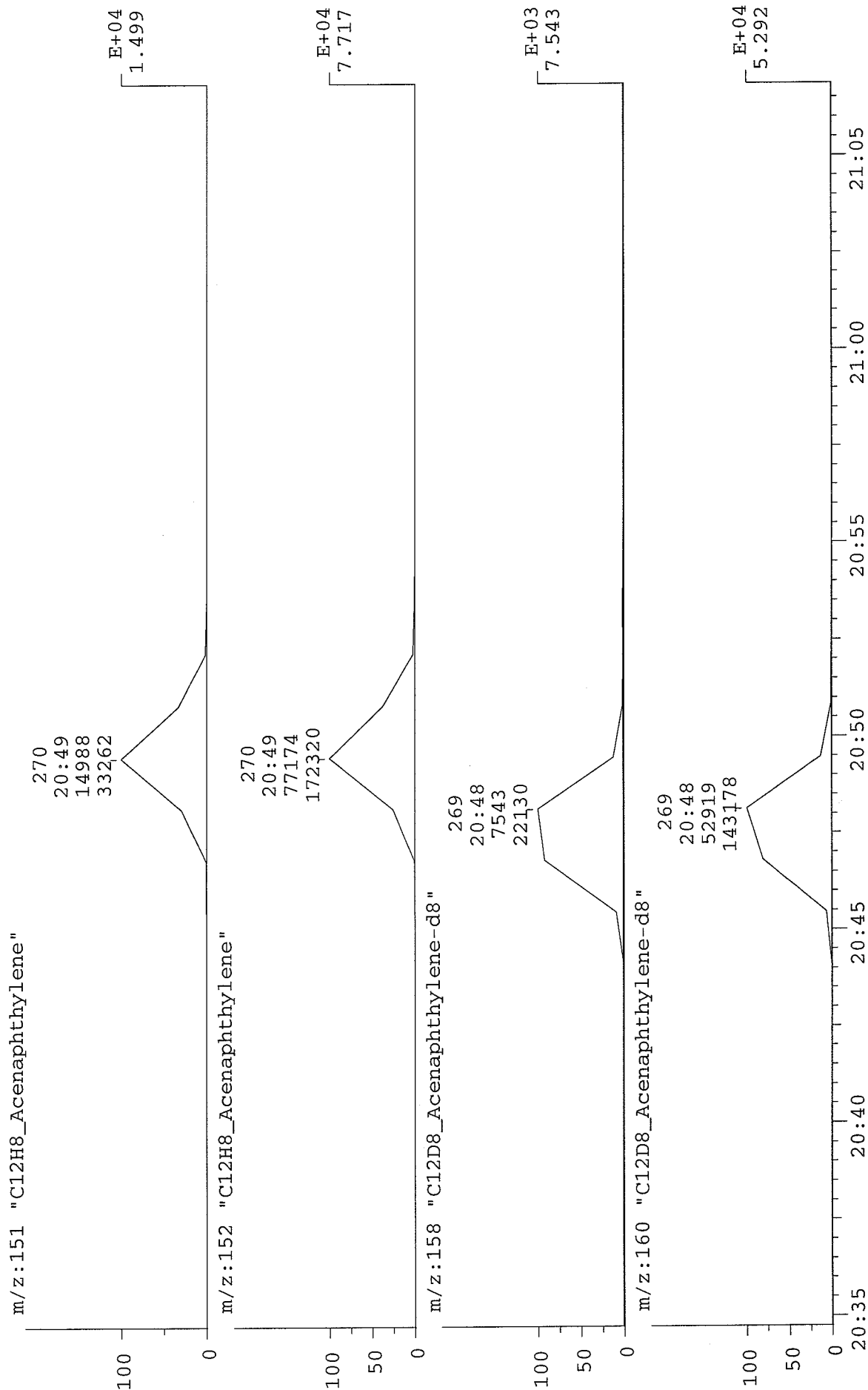
m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



19:40 19:45 19:50 19:55 20:00 20:05

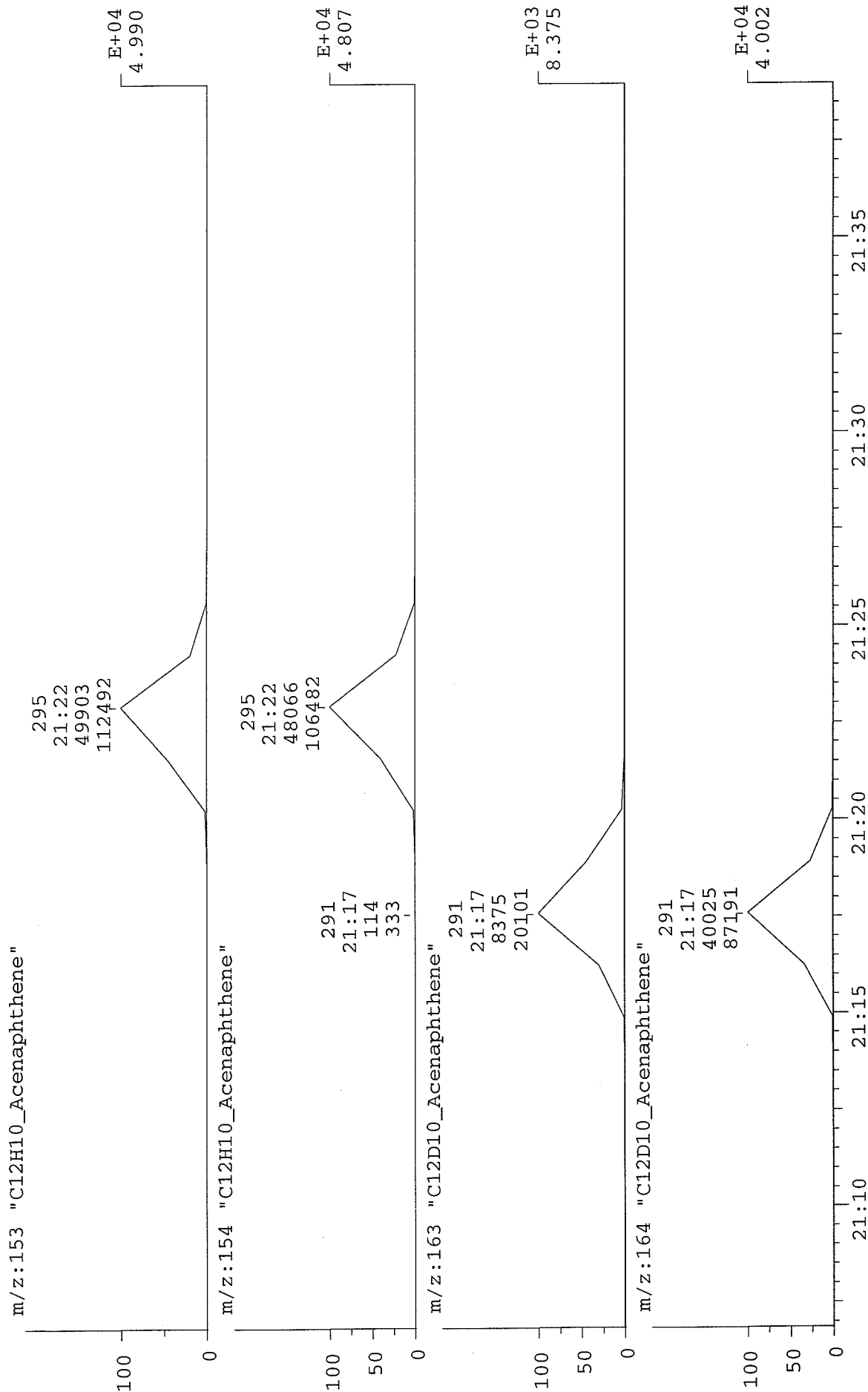
CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 283 > 307
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

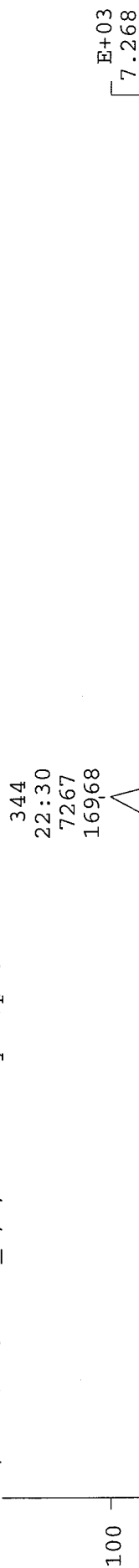


CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

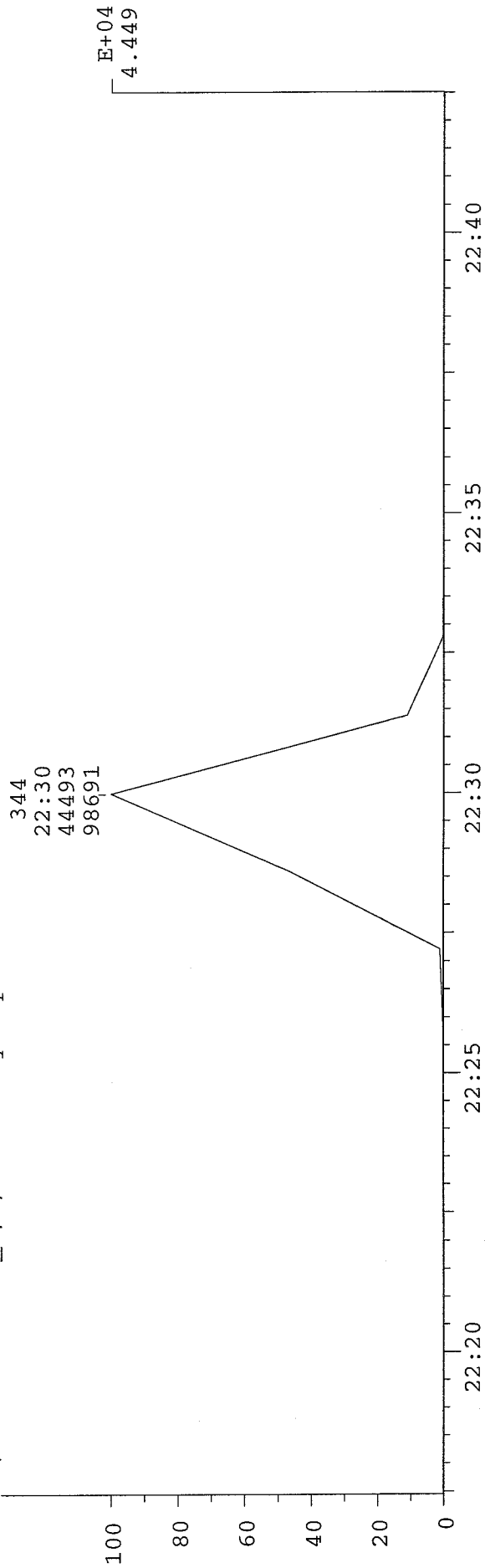
05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"

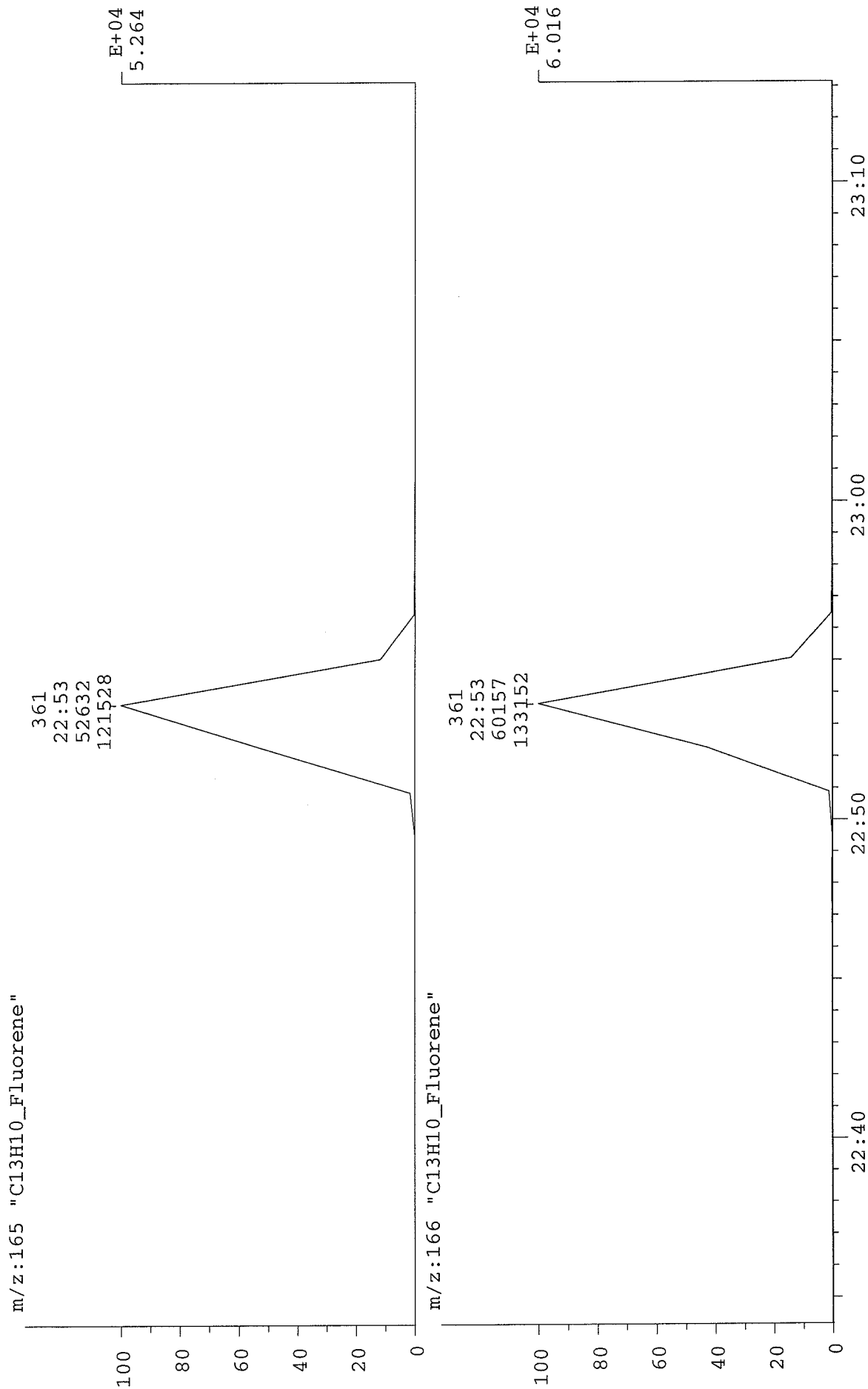


m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"



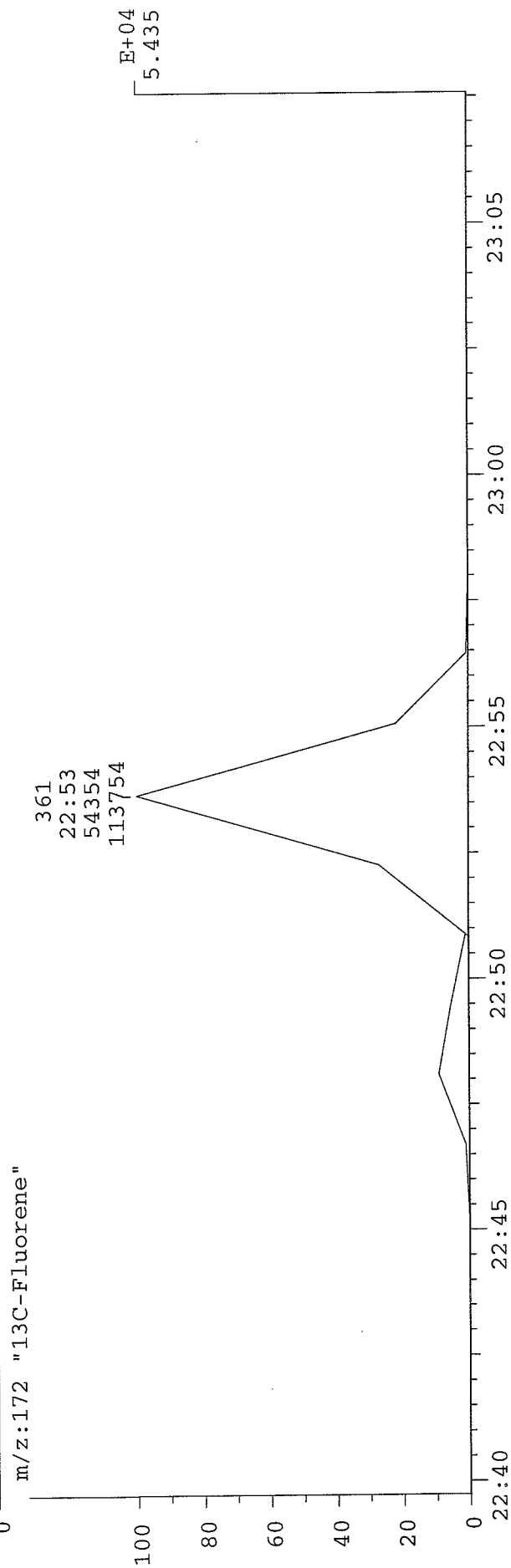
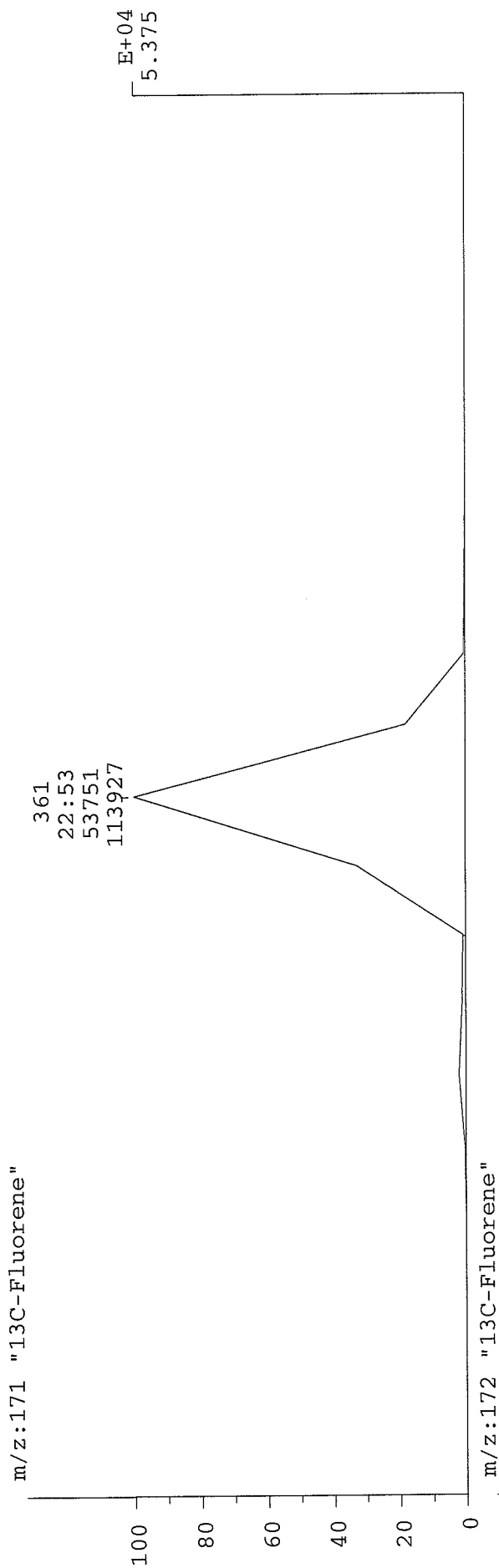
CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 351 > 371
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 22:49.5 358
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

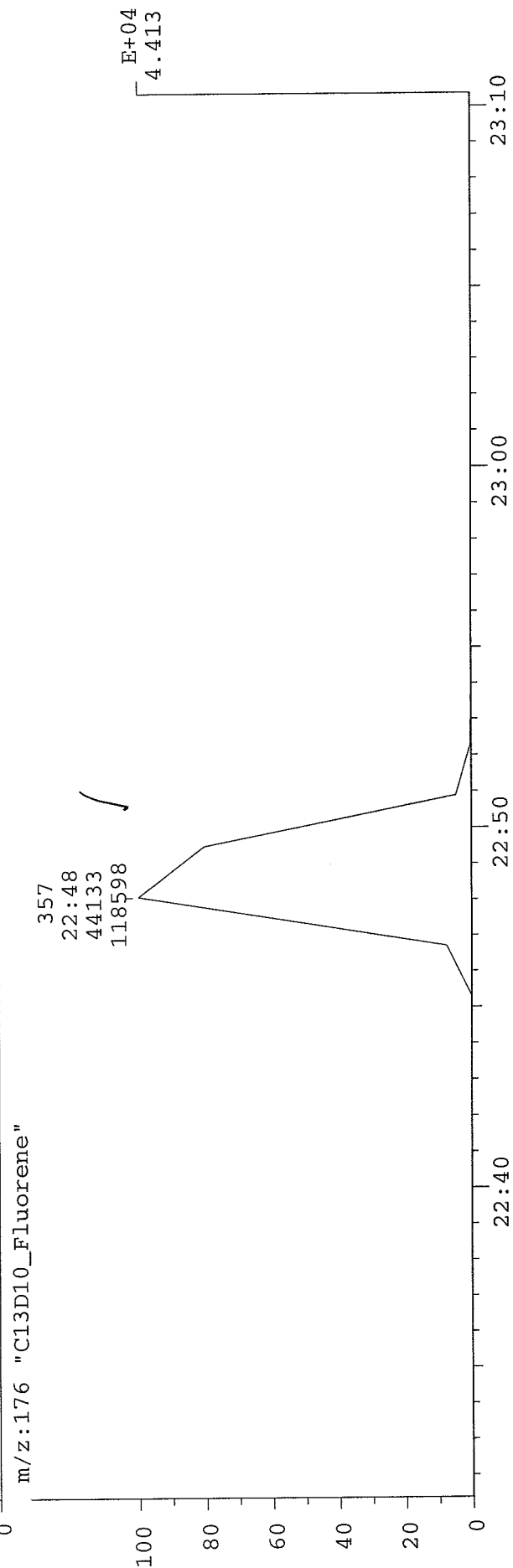
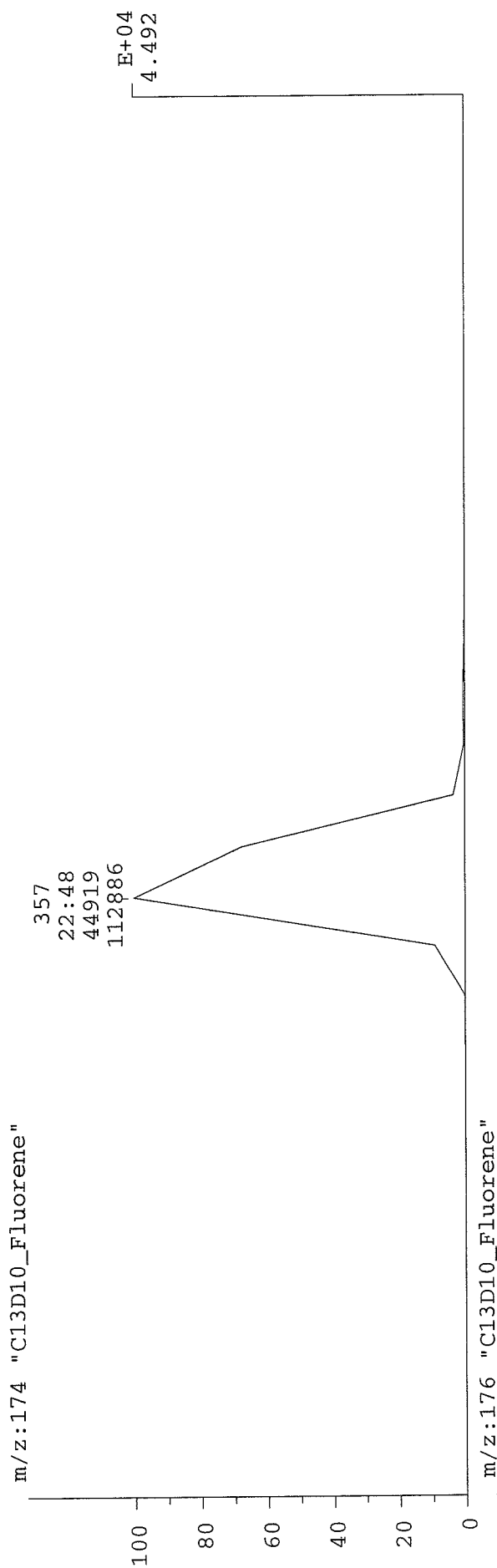


CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 345 > 373
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

Elapse: 22:49.5 358
Start : 18:23:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

05-APR-06

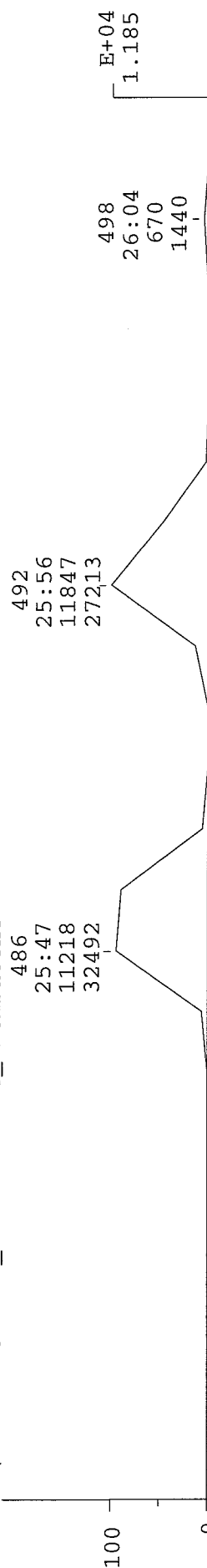


CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

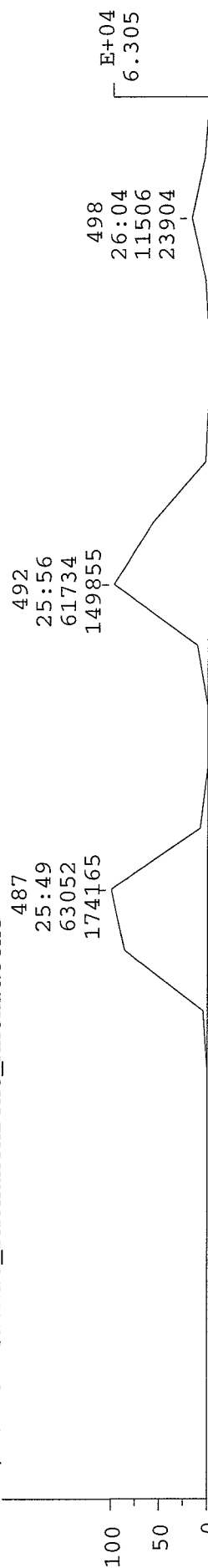
05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

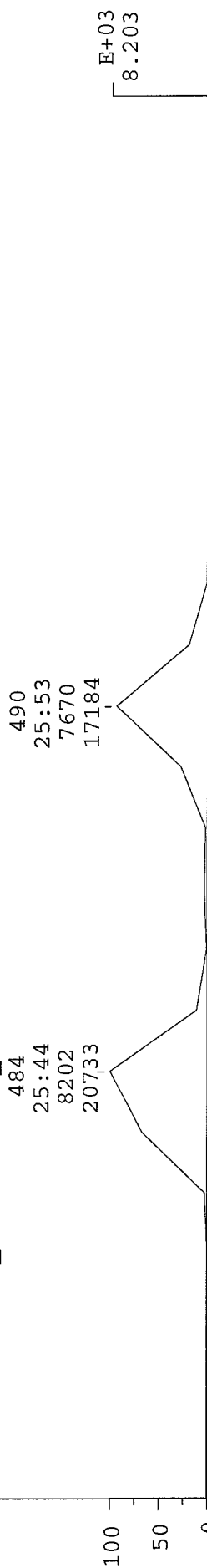
m/z:176 "C14H10_Phenanthrene_Anthracene"



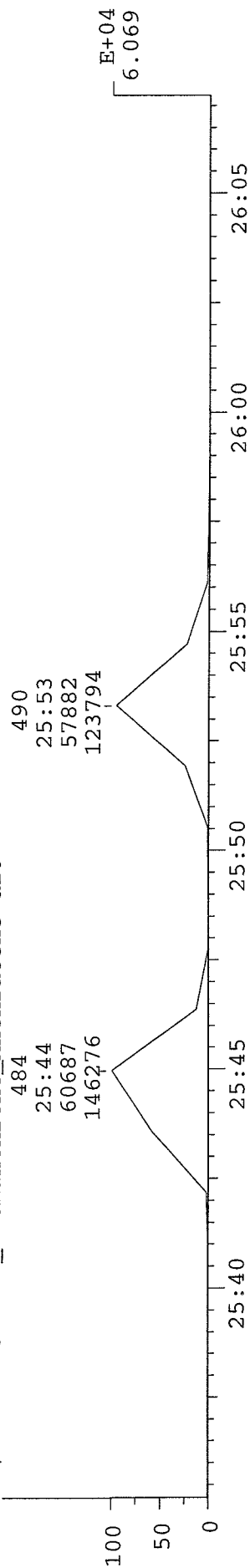
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



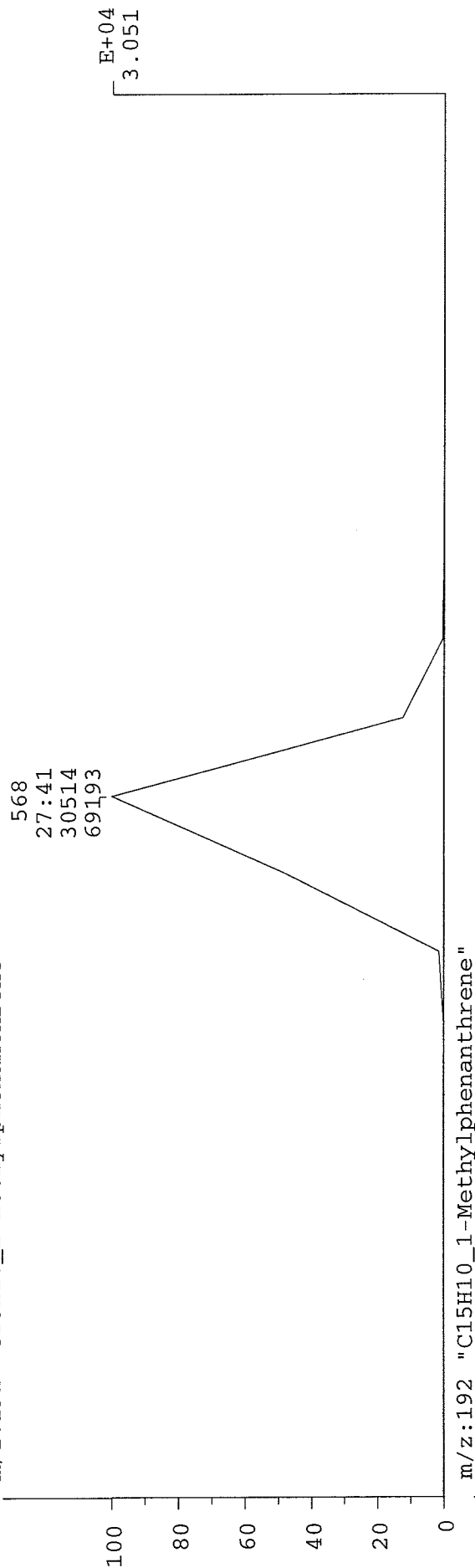
m/z:188 "C14D10_Phenanthrene_Anthracene-d10"



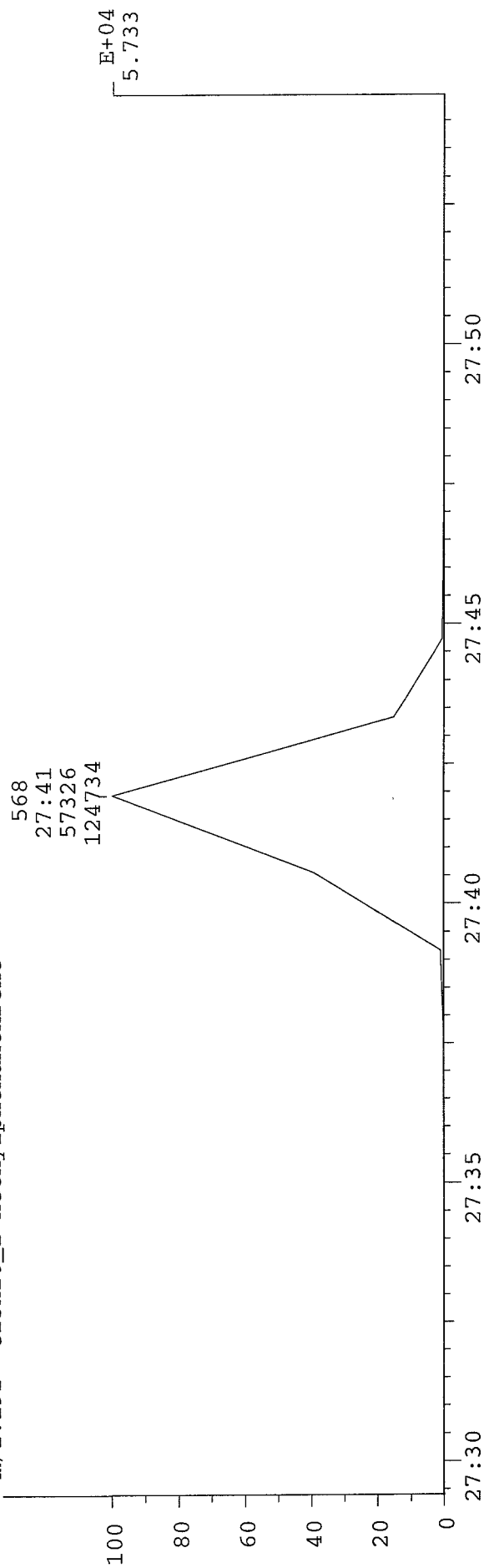
CHRO: y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 648 > 725
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06
Elapse: 40:59 1326
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

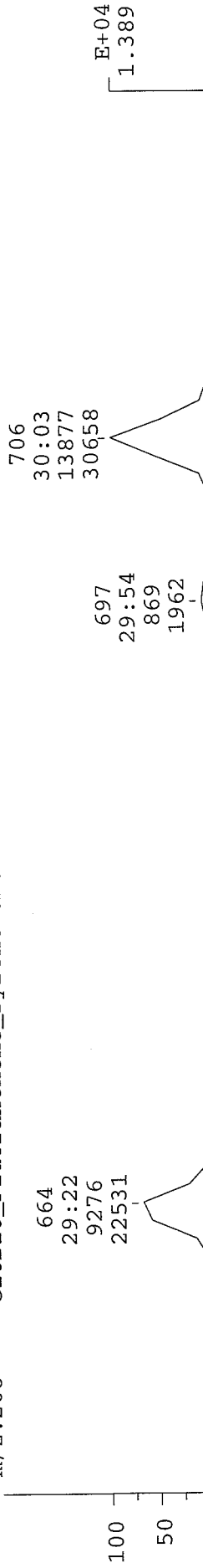
m/z:200 "C16H10_Fluoranthene_Pyrene"



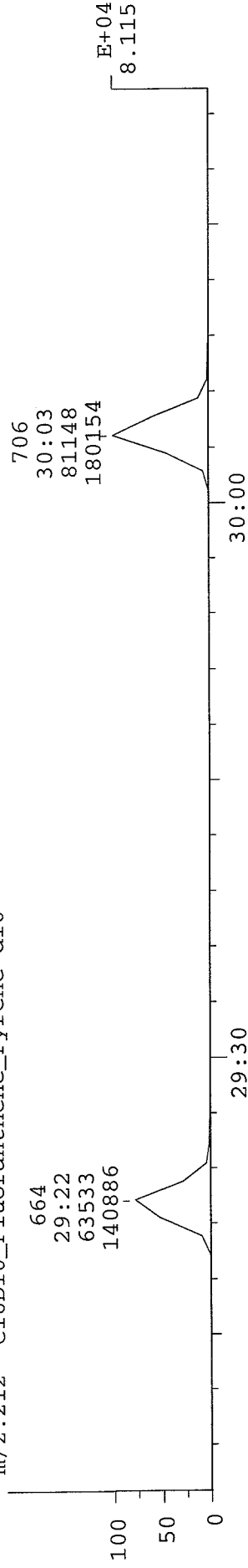
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 " " C16D10_Fluoranthene_Pyrene-d10



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 916 > 945
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

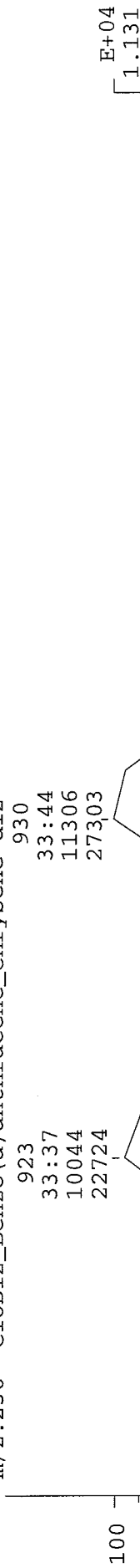
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



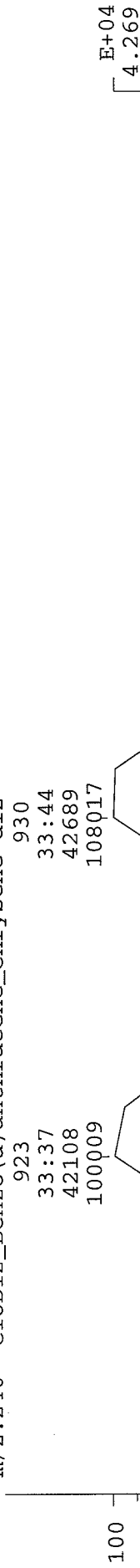
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"



33:55

33:50

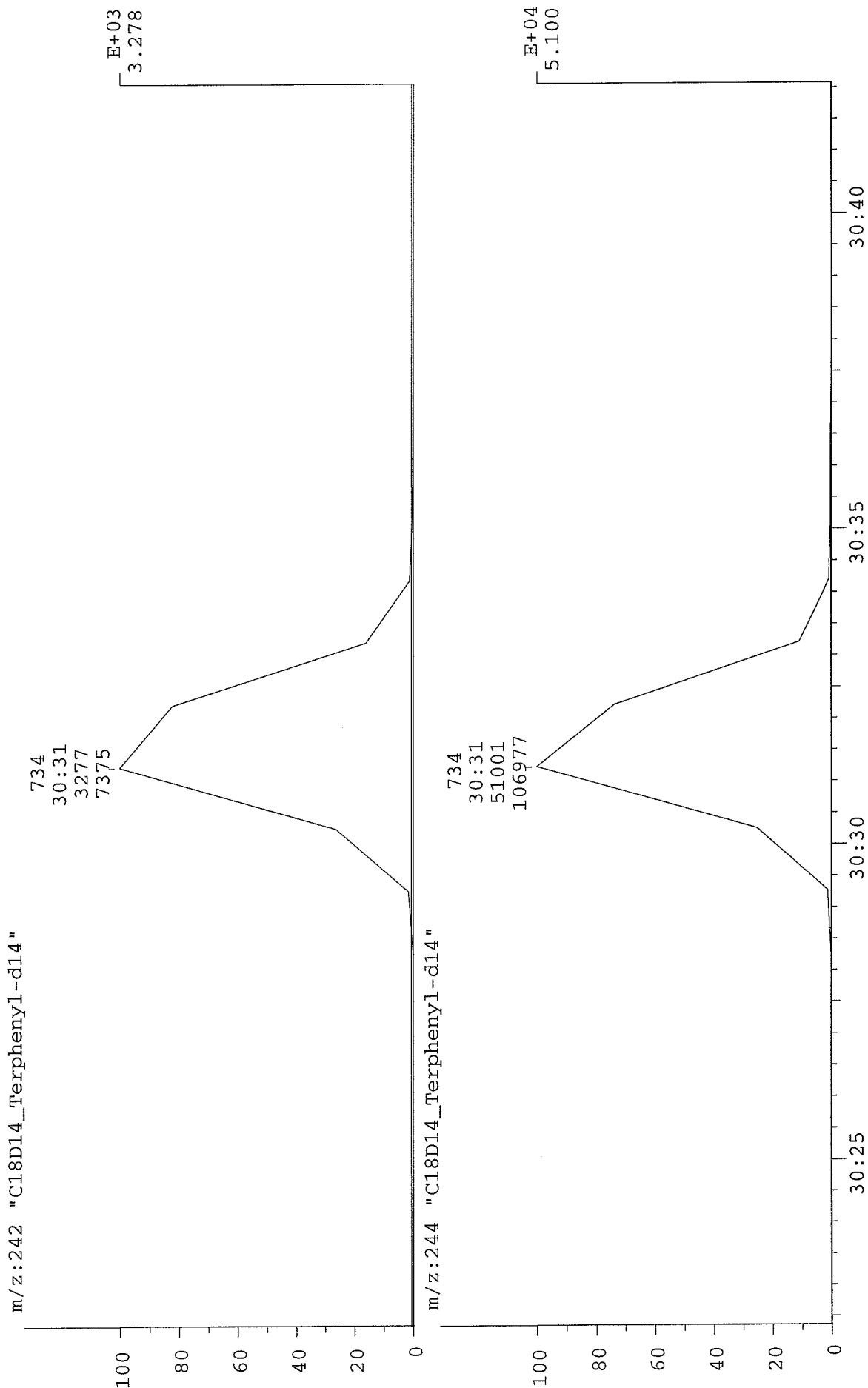
33:45

33:40

33:35

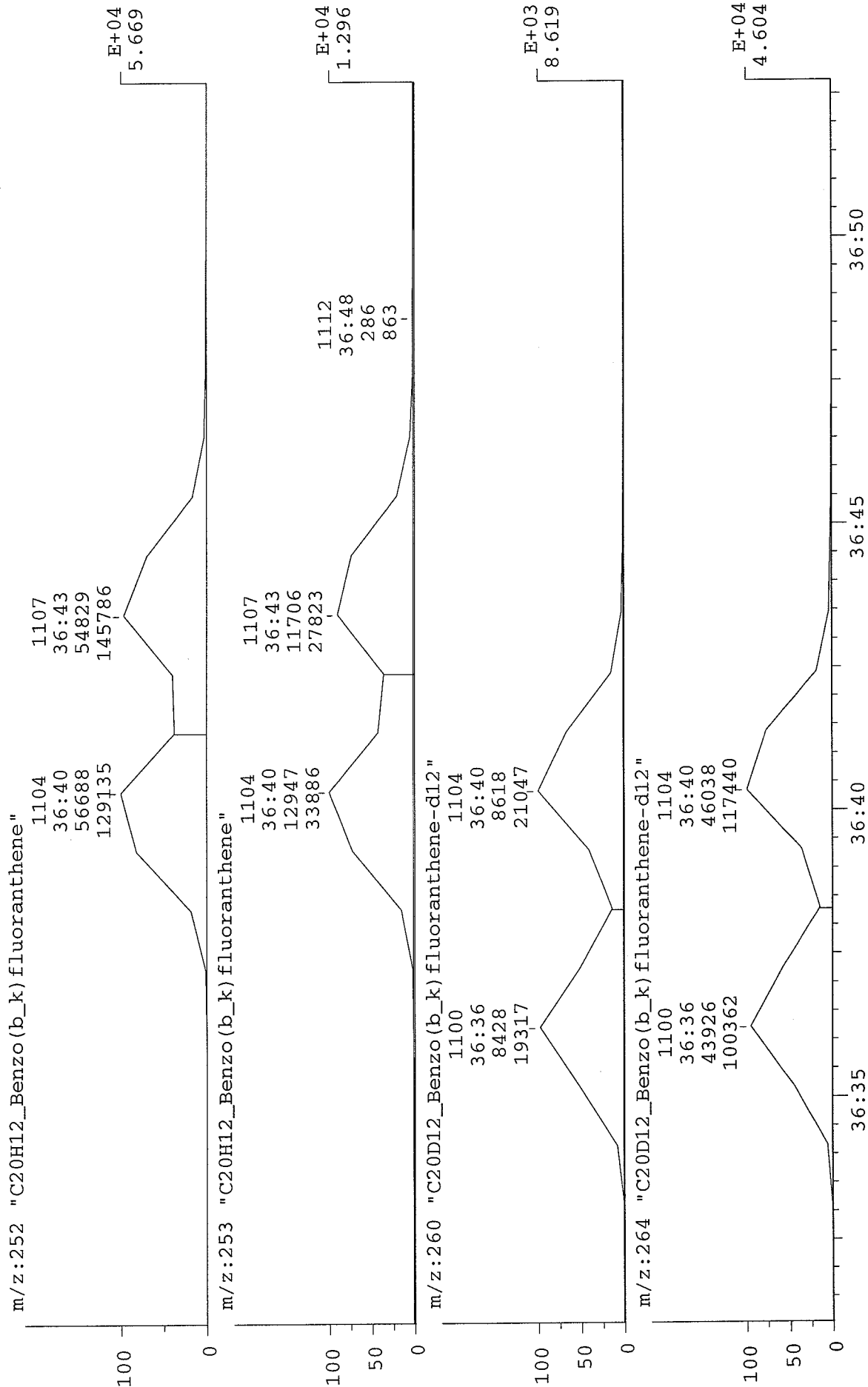
CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 725 > 745
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 22:49.5 358
Start : 18:23:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i4
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1095 > 1116
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06 Elapse: 40:59 1326
 Start : 18:23:00 1384
 Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

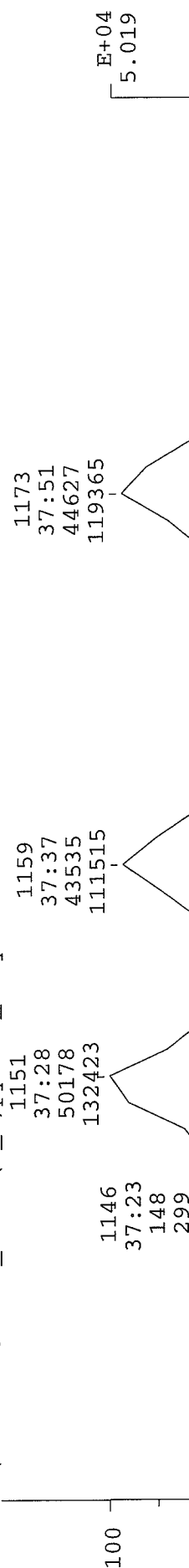


CHRO: Y060405i4
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1135 > 1188
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

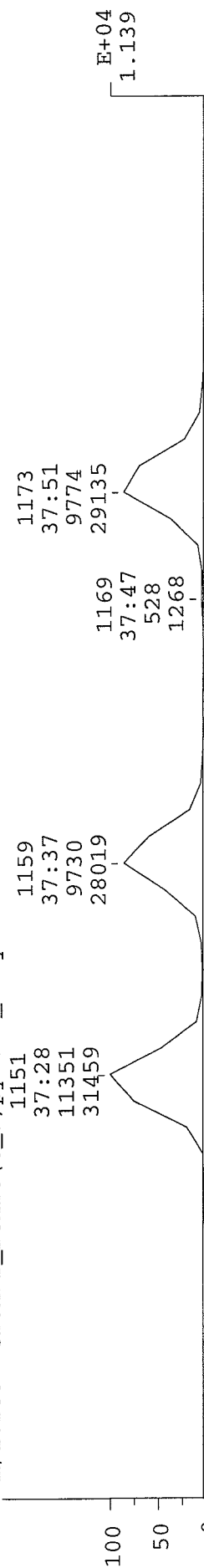
05-APR-06 Elapse: 40:59 1326
 Start : 18:23:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



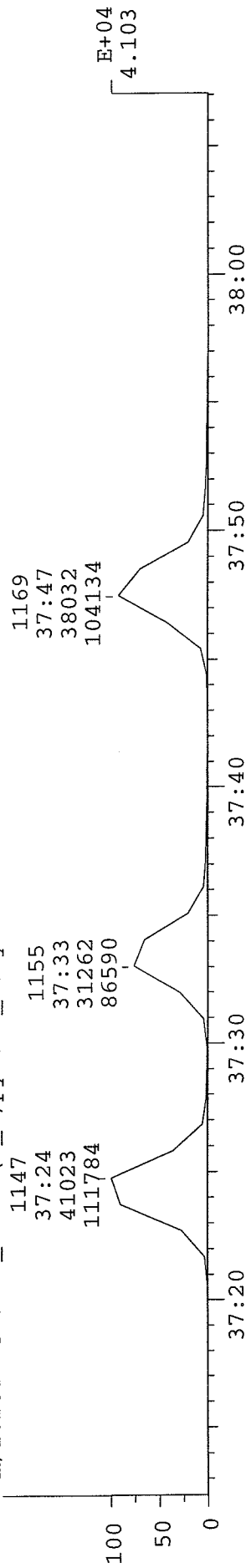
m/z:253 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



CHRO: y060405i4

Samp: WO=3377:01_4 Meth=YA1 Dil=1

Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD

Mode: EI +VE + LMR (LIN) UP LR NETCDF

Oper: JMN Client: STL Knoxville

Peak: 100.00 ppm Label wndw: 1321 > 1387

Area: 5, 0.50, 15 Baseline : 100, 1

Disp: Height Area

05-APR-06 Elapse: 40:59 1326

Start : 18:23:00 1384

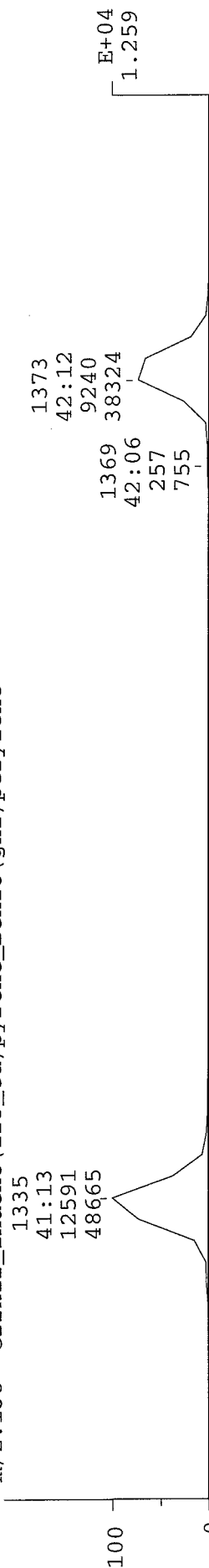
Study : 3377:01 Initial Cali

Inlet :

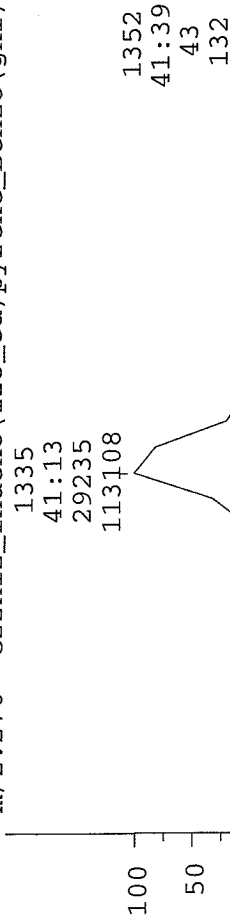
Masses: 0 > 308

Label : -2, 3.0

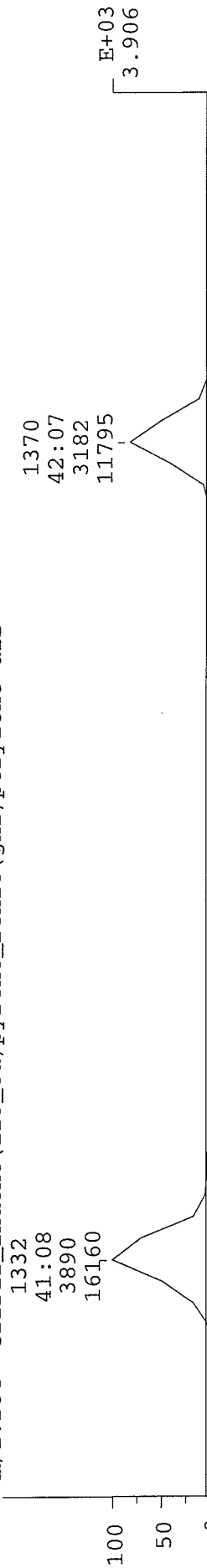
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



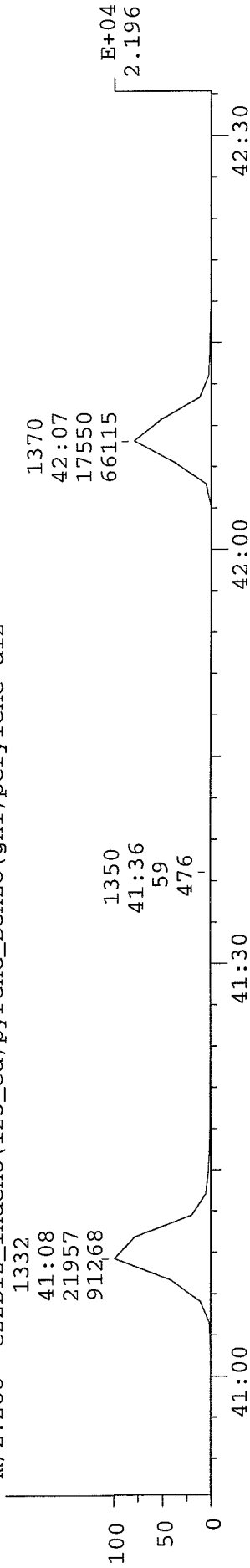
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"

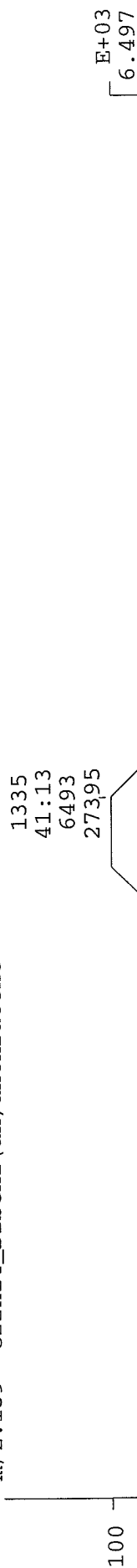


CHRO: Y060405i4
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

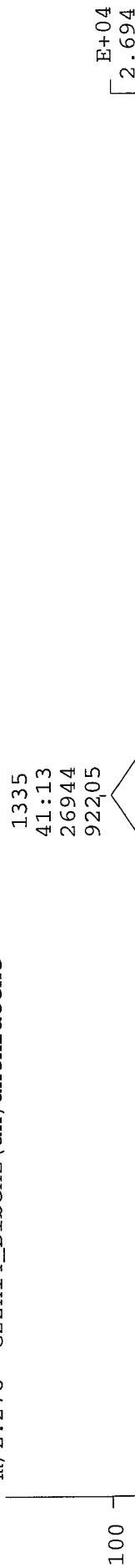
05-APR-06 Elapse: 40:59 1326
Start : 18:23:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: Y60405I4.D
 Date Acquired: 5 Apr 2006 6:23 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060405I4
 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 05 20:05:44 2006
 d:\cdf\files\Y60405I4.CDF Translated at Wed Apr 05 20:05:44 2006 Elapsed: 0 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 5 14:32:01 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60405i4.dat
 NetCDF File (input): /usr/users/hp/data/y60405i4.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 5 14:32:02 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



Workorder 3377:01_5	Prep Batch	Lot No
Data File /20060405I/y060405i5.d	Prep Date	SDG No
Analysis ID 89895	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 19:13	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAL
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	182426	59897	1.000	500.0	946.516961	189.30	946.516961	0.343
Naphthalene	16:01	422369	131269	1.000	1000	1157.64474	115.76	1157.64474	0.376
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	1000			ND	0.000000
2-Methylnaphthalene	18:04	282908	113690	1.000	1000	1220.85185	122.09	1220.85185	0.241
2-Methylnaphthalene-d10	17:59	115865	46770	1.000	500.0	601.165337	120.23	601.165337	0.200
1-Methylnaphthalene	18:24	264520	96926	1.000	1000	1316.87161	131.69	1316.87161	0.273
1-Methylnaphthalene-d10	18:18	100435	41179	1.000	500.0	521.106810	104.22	521.106810	0.200
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	19:27	337729	122961	1.000	1000	1457.42459	145.74	1457.42459	0.561
2,6-Dimethylnaphthalene	19:56	245082	112377	1.000	1000	1194.07741	119.41	1194.07741	1.01
2,6-Dimethylnaphthalene-d1	19:49	102624	44431	1.000	500.0	532.464433	106.49	532.464433	0.229
C2-Alkylnaphthalenes				1.000		1194.07741		1194.07741	0.751
Acenaphthylene	20:49	394481	177232	1.000	1000	1206.14998	120.61	1206.14998	0.153
Acenaphthylene-d8	20:48	163529	57143	1.000	500.0	848.469912	169.69	848.469912	0.143
Acenaphthene-d10	21:17	96367	43720	1.000	500.0	500.000000	100.00	500.000000	0.229
Acenaphthene	21:23	239455	105747	1.000	1000	732.148426	73.21	732.148426	0.459
2,3,5-Trimethylnaphthalene	22:30	222435	99562	1.000	1000	1083.73772	108.37	1083.73772	0.197
C3-Alkylnaphthalenes				1.000		1083.73772		1083.73772	0.146
Fluorene d-10	22:48	260611	98867	1.000	1000	781.648531	78.16	781.648531	0.108
Fluorene-Cl3	22:53	249169	116782	1.000	1000	747.330630	74.73	747.330630	0.0902
Fluorene	22:53	299165	132725	1.000	1000	897.283241	89.73	897.283241	0.180
Phenanthrene-d10	25:45	166706	69261	1.000	500.0	415.280373	83.06	415.280373	0.125
Phenanthrene	25:49	391533	139619	1.000	1000	1174.32186	117.43	1174.32186	0.144
Anthracene-d10	25:53	140910	65109	1.000	500.0	351.020103	70.20	351.020103	0.125
Anthracene	25:56	348141	147531	1.000	1000	1044.17657	104.42	1044.17657	0.144
1-Methylphenanthrene	27:42	281732	131292	1.000	1000	844.996581	84.50	844.996581	0.199
Fluoranthene-d10	29:22	159618	69574	1.000	500.0	397.623496	79.52	397.623496	0.111
Fluoranthene	29:25	413962	191663	1.000	1000	1296.72719	129.67	1296.72719	0.180
Pyrene-d10	30:03	200715	89868	1.000	500.0	500.000000	100.00	500.000000	0.111
Pyrene	30:06	419310	189931	1.000	1000	1313.47968	131.35	1313.47968	0.180
Terphenyl-d14	30:31	233968	110619	1.000	1000	732.899798	73.29	732.899798	0.0539
Benzo(a)Anthracene-d12	33:37	113082	48089	1.000	500.0	281.697930	56.34	281.697930	0.292
Benzo(a)anthracene	33:41	319861	150667	1.000	1000	1414.28786	141.43	1414.28786	0.338
Chrysene-d12	33:45	122142	47932	1.000	500.0	304.267245	60.85	304.267245	0.292
Chrysene	33:49	318315	153167	1.000	1000	1303.05300	130.31	1303.05300	0.339
Benzo(b)Fluoranthene-d12	36:36	112275	49841	1.000	500.0	460.917936	92.18	460.917936	0.618
Benzo(k)Fluoranthene-d12	36:40	135550	50913	1.000	500.0	556.467835	111.29	556.467835	0.618
Benzo(b)fluoranthene	36:40	327870	131436	1.000	1000	1460.12024	146.01	1460.12024	1.08
Benzo(k)fluoranthene	36:43	280999	116896	1.000	1000	1036.51420	103.65	1036.51420	1.06
Benzo(e)pyrene-d12	37:24	121795	44528	1.000	500.0	500.000000	100.00	500.000000	0.618
Benzo(e)pyrene	37:28	293101	113519	1.000	1000	1488.91068	148.89	1488.91068	1.59
Benzo(a)Pyrene-d12	37:33	98428	33863	1.000	500.0	404.072417	80.81	404.072417	0.618
Benzo(a)pyrene	37:37	253887	98619	1.000	1000	1289.70923	128.97	1289.70923	1.59
Perylene-d12	37:47	118809	42367	1.000	500.0	487.741697	97.55	487.741697	0.618
Perylene	37:51	270490	97216	1.000	1000	1138.33969	113.83	1138.33969	1.27
3-Methylcholanthrene				1.000	1000			ND	0.826

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder 3377:01_5	Prep Batch	Lot No
Data File /20060405I/y060405i5.d	Prep Date	SDG No
Analysis ID 89895	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 19:13	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	41:07	53430	15266	1.000	500.0	219.343980	43.87	219.343980	0.253
Indeno(1,2,3-cd)pyrene-d12	41:08	103125	24244	1.000	500.0	423.354818	84.67	423.354818	0.309
Indeno(1,2,3-cd)pyrene	41:13	257912	63802	1.000	1000	1250.48242	125.05	1250.48242	0.670
Dibenz (a,h) anthracene	41:13	210305	63895	1.000	1000	1968.04230	196.80	1968.04230	1.31
Benzo(ghi) Perylene-d12	42:07	73695	19138	1.000	500.0	302.537050	60.51	302.537050	0.309
Benzo(ghi) perylene	42:14	237765	64691	1.000	1000	1613.16914	161.32	1613.16914	0.849
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	1000			ND	0.000000

PAH's by LRMS Extended List

Workorder 3377:01_5	Prep Batch	Lot No
Data File /20060405I/y060405i5.d	Prep Date	SDG No
Analysis ID 89895	Prep Exp Date	Date Received
Analysis Date 04/05/06 19:13	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	45		18				
	Naphthalene	16:01	00:00	0	422369		131269			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	30		12				
	Naphthalene-d8	15:58	00:00	0	182426		59897			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	23		9				
	2-Methylnaphthalene	18:04	00:00	0	282908		113690			AVV	
	1-Methylnaphthalene	18:24	00:00	0	264520		96926			AVB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene-d10	17:59	00:00	0	115865		46770			ABV	
	1-Methylnaphthalene-d10	18:18	00:00	0	100435		41179			AVB	
	Acenaphthylene	20:49	00:00	0	394481		177232			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	53		21				
	Biphenyl	19:27	00:00	0	337729		122961			ABB	
	Acenaphthene	21:23	00:00	0	239455		105747			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	90		36				
	2,6-Dimethylnaphthalene	19:56	00:00	0	245082		112377			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	13		5				
	Acenaphthylene-d8	20:48	00:00	0	163529		57143			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	20		8				
	Acenaphthene-d10	21:17	00:00	0	96367		43720			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	25		10				
	Fluorene	22:53	00:00	0	299165		132725			AVB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	20		8				
	2,6-Dimethylnaphthalene	19:49	00:00	0	102624		44431			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	13		5				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	18		7				
	2,3,5-Trimethylnaphthal	22:30	00:00	0	222435		99562			ABB	M
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

PAH's by LRMS Extended List

Workorder 3377:01_5	Prep Batch	Lot No
Data File /20060405I/y060405i5.d	Prep Date	SDG No
Analysis ID 89895	Prep Exp Date	Date Received
Analysis Date 04/05/06 19:13	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	22:53	00:00	0	249169 ✓		116782			ABV	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	15		6				
	Fluorene d-10	22:48	00:00	0	260611 ✓		98867			ABV	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	20		8				
	Phenanthrene	25:49	00:00	0	391533		139619			ABV	M
	Anthracene	25:56	00:00	0	348141		147531			AVV	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	23		9				
	Phenanthrene-d10	25:45	00:00	0	166706		69261			ABV	M
	Anthracene-d10	25:53	00:00	0	140910		65109			AVB	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	28		11				
	1-Methylphenanthrene	27:42	00:00	0	281732		131292			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	25		10				
	Fluoranthene	29:25	00:00	0	413962		191663			ABV	M
	Pyrene	30:06	00:00	0	419310		189931			ABV	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene-d10	29:22	00:00	0	159618		69574			ABV	
	Pyrene-d10	30:03	00:00	0	200715		89868			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	33		13				
	Benzo(a)anthracene	33:41	00:00	0	319861		150667			ABV	M
	Chrysene	33:49	00:00	0	318315		153167			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	53		21				
	Benzo(a)Anthracene-d12	33:37	00:00	0	113082		48089			ABV	
	Chrysene-d12	33:45	00:00	0	122142		47932			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	8		3				
	Terphenyl-d14	30:31	00:00	0	233968 ✓		110619			ABV	M
252					252.0000		252.0000				
	Noise	00:00	00:00	0	108		43				
	Benzo(b)fluoranthene	36:40	00:00	0	327870		131436			ABV	M
	Benzo(k)fluoranthene	36:43	00:00	0	280999		116896			AVB	M
	Benzo(e)pyrene	37:28	00:00	0	293101		113519			ABV	M
	Benzo(a)pyrene	37:37	00:00	0	253887		98619			AVV	M
	Perylene	37:51	00:00	0	270490		97216			AVB	M
264					264.0000		264.0000				

Notes:
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PAH's by LRMS Extended List

Workorder 3377:01_5	Prep Batch	Lot No
Data File /20060405I/y060405i5.d	Prep Date	SDG No
Analysis ID 89895	Prep Exp Date	Date Received
Analysis Date 04/05/06 19:13	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution Factor 1.00	Code YA1

View Small Peaks? False

View deleted peaks? False

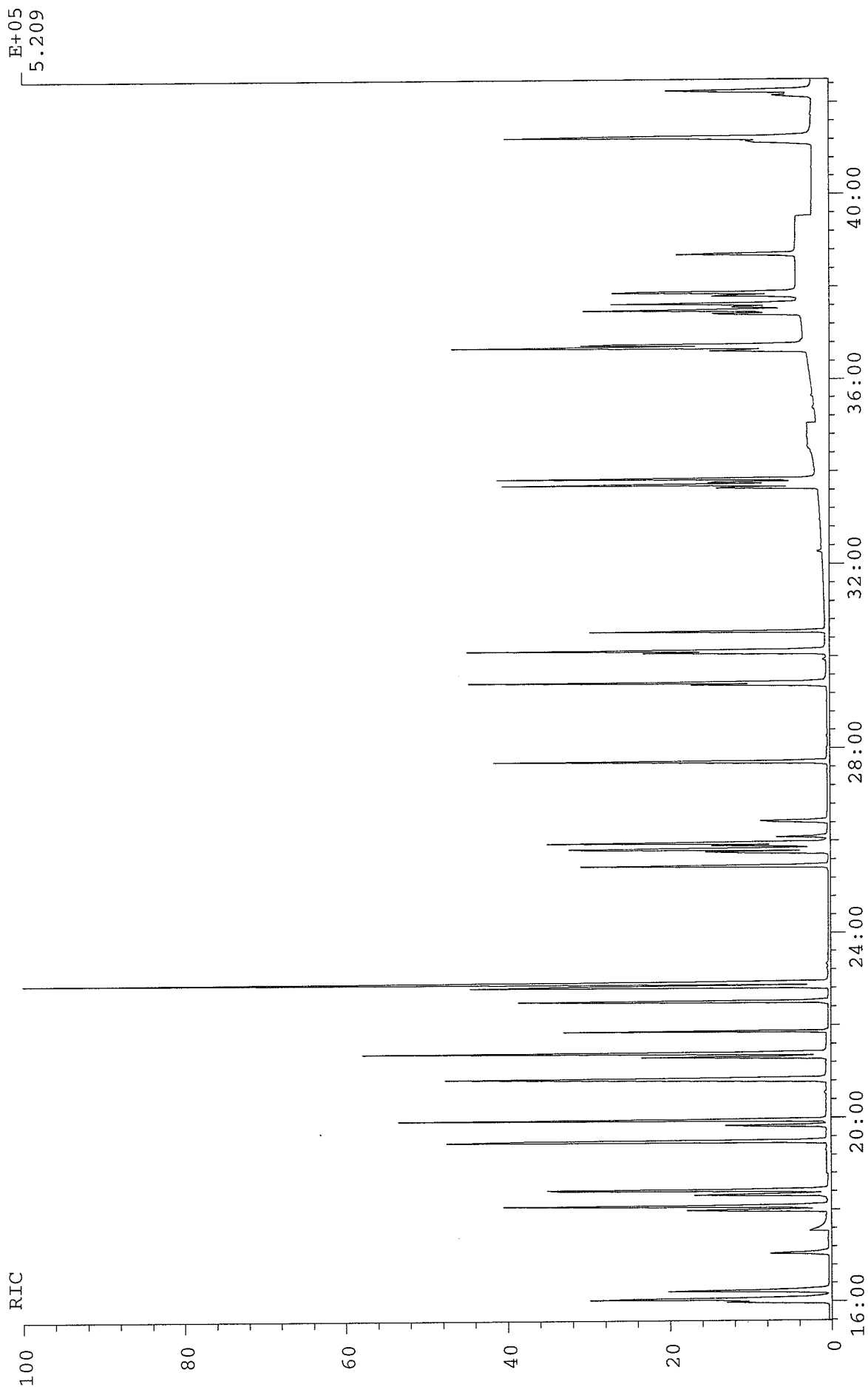
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Noise	00:00	00:00	0	55		22				
	Benzo(b)Fluoranthene-d1	36:36	00:00	0	112275		49841		ABV		M
	Benzo(k)Fluoranthene-d1	36:40	00:00	0	135550		50913		ABV		M
	Benzo(e)pyrene-d12	37:24	00:00	0	121795		44528		ABV		M
	Benzo(a)Pyrene-d12	37:33	00:00	0	98428		33863		AVV		M
	Perylene-d12	37:47	00:00	0	118809		42367		AVV		M
268					268.0000		268.0000				
	Noise	00:00	00:00	0	70		28				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	33		13				
	Indeno(1,2,3-cd)pyrene	41:13	00:00	0	257912		63802		ABV		
	Benzo(ghi)perylene	42:14	00:00	0	237765		64691		ABB		M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	40		16				
	Dibenz(a,h)anthracene	41:13	00:00	0	210305		63895		ABB		
288					288.0000		288.0000				
	Noise	00:00	00:00	0	28		11				
	Indeno(1,2,3-cd)pyrene-	41:08	00:00	0	103125		24244		ABV		
	Benzo(ghi)Perylene-d12	42:07	00:00	0	73695		19138		ABB		
292					292.0000		292.0000				
	Noise	00:00	00:00	0	23		9				
	Dibenz(ah)Anthracene-d1	41:07	00:00	0	53430		15266		ABB		
302					302.0000		302.0000				
	Noise	00:00	00:00	0	13		5				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	10		4				

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

Int / Calc: 4/14/06
QC MK 4/10/06

CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1731 > 1739
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06
Elapse: 49:19 1735
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : 0, 3.0

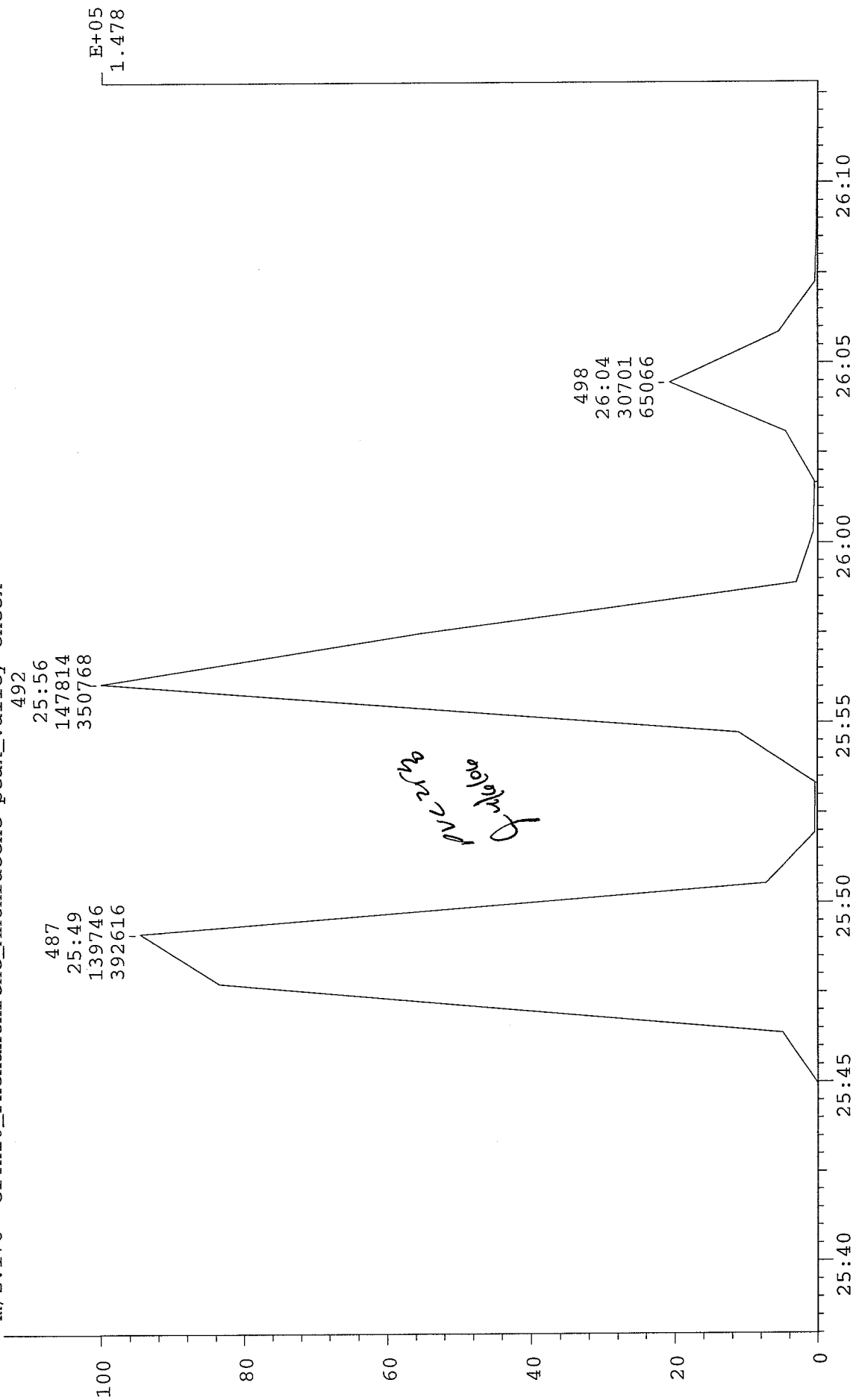


CHRO: y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"

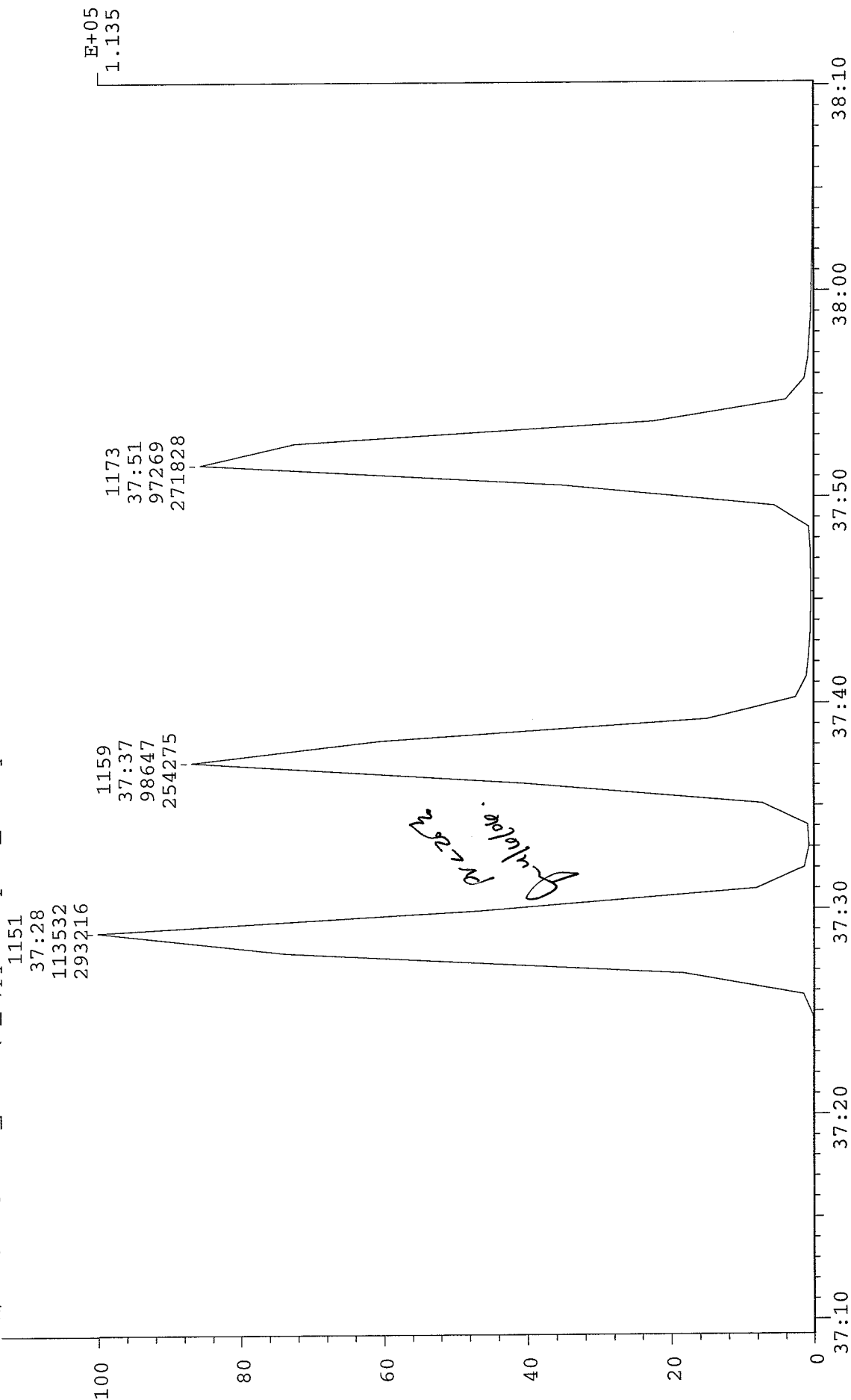


CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384

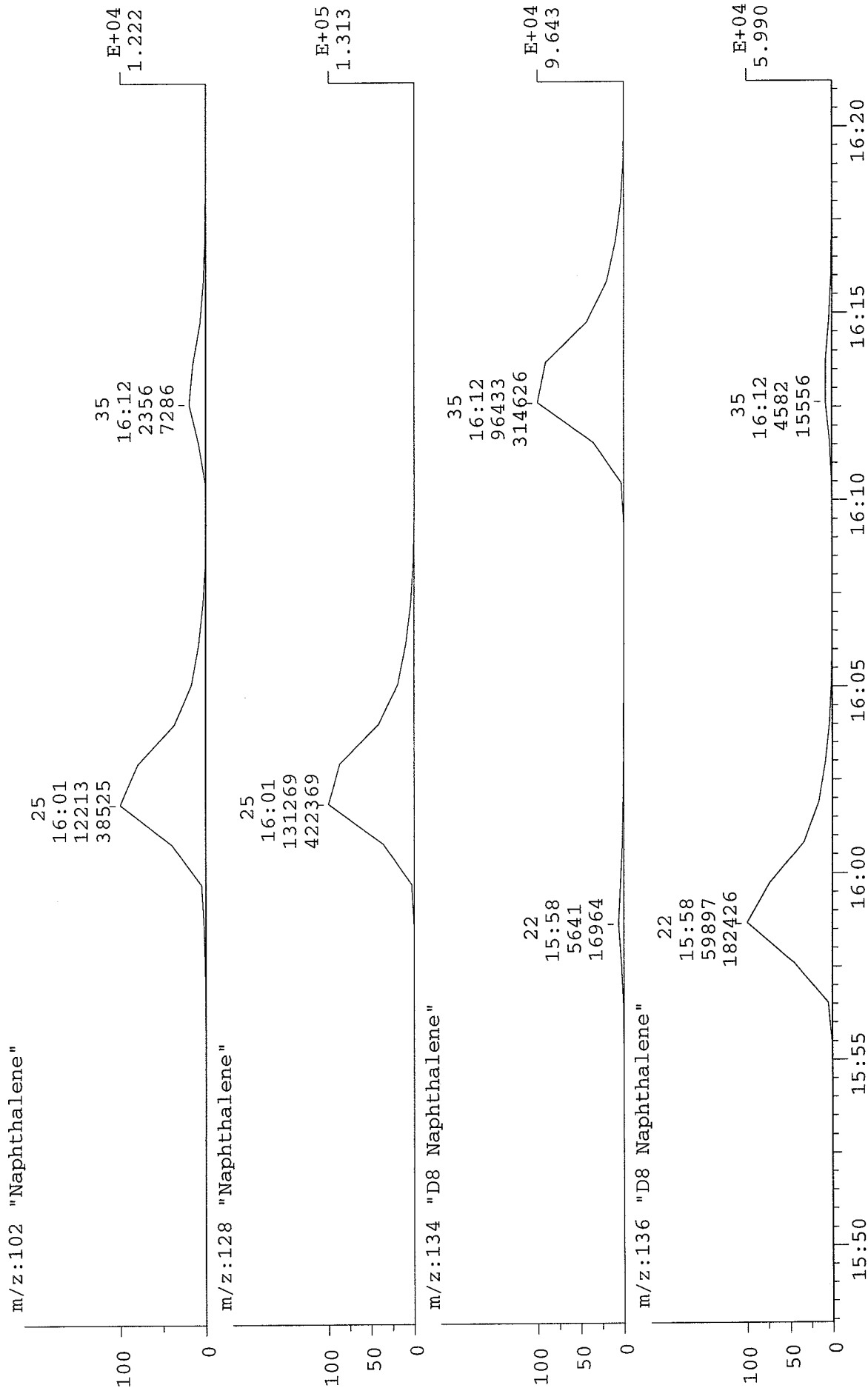
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



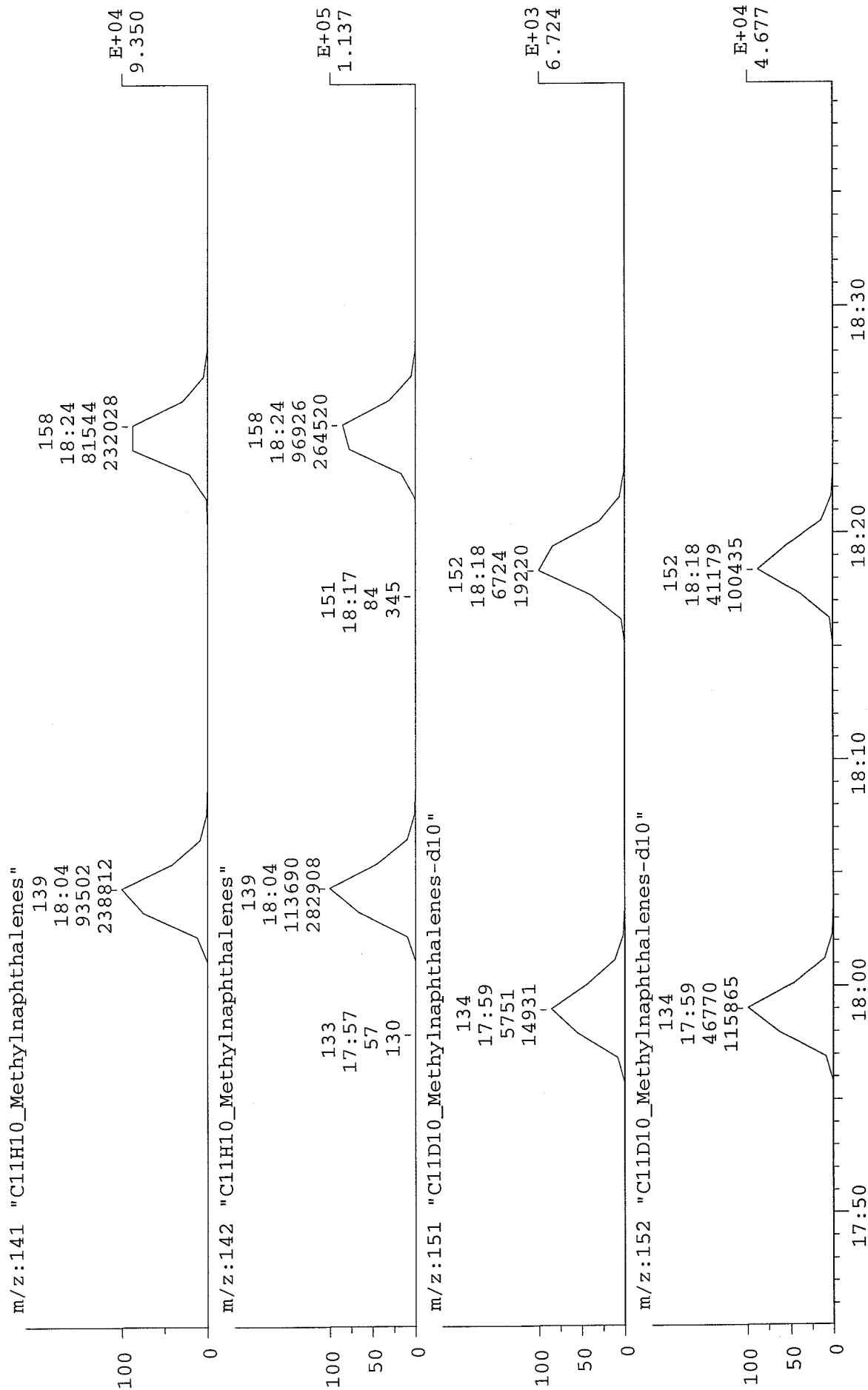
CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

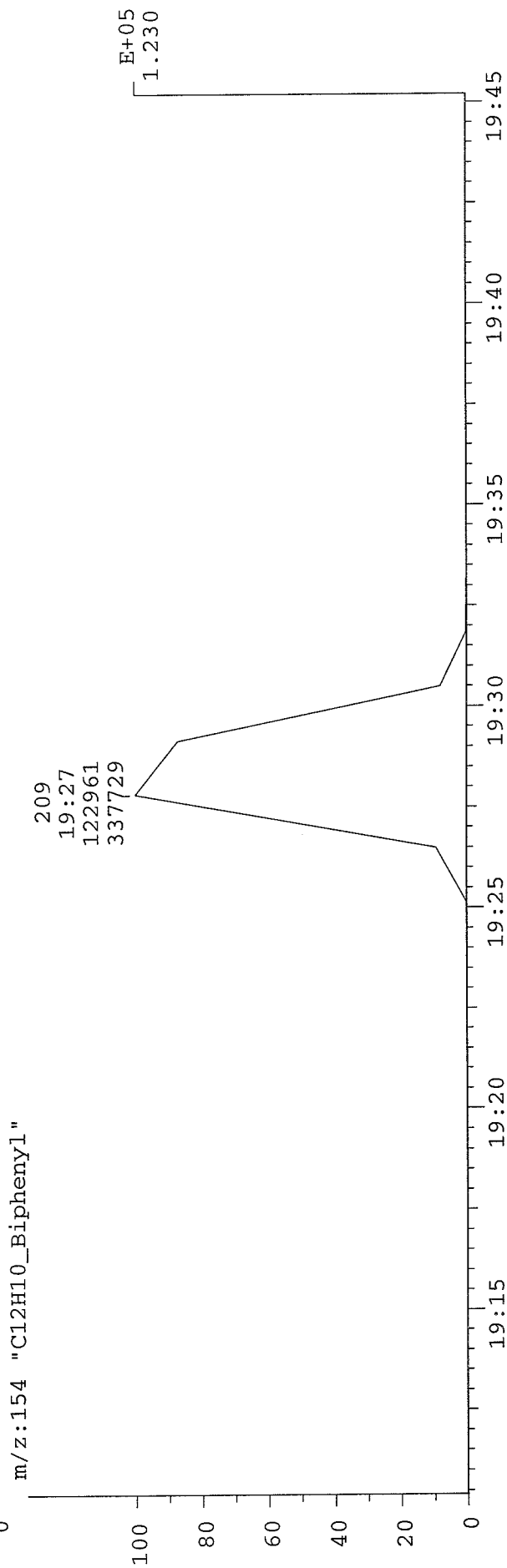
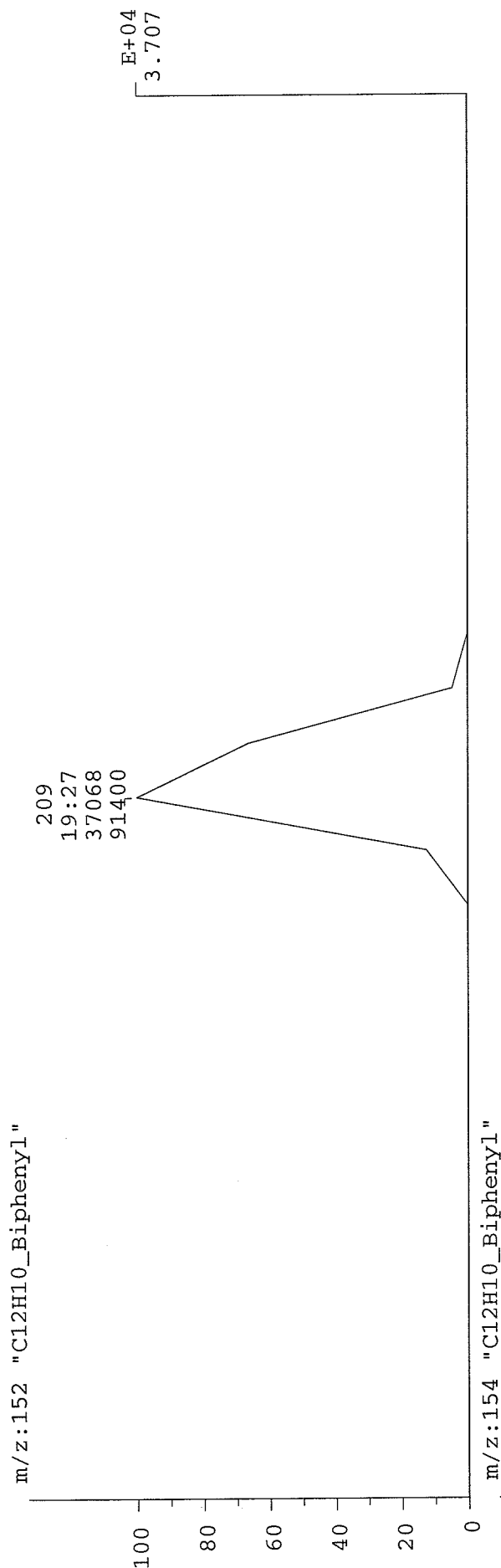
05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i5
 Samp: WO=3377:01_5 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 196 > 222
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06 Elapse: 40:59 1326
 Start : 19:13:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



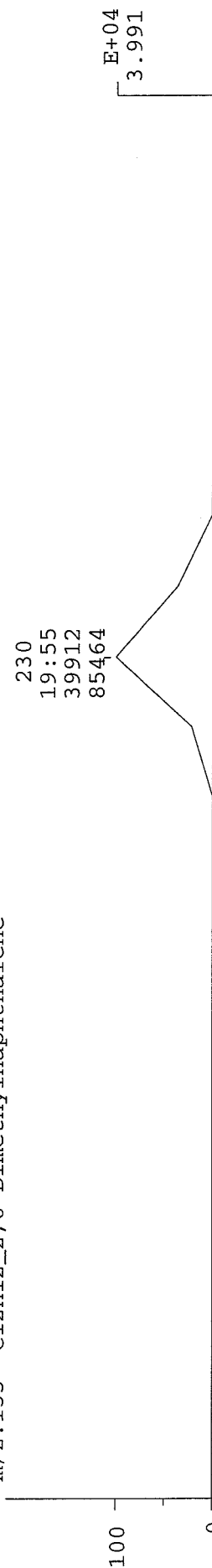
CHRO: Y060405i5
 Samp: WO=3377:01_5 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 218 > 238
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06

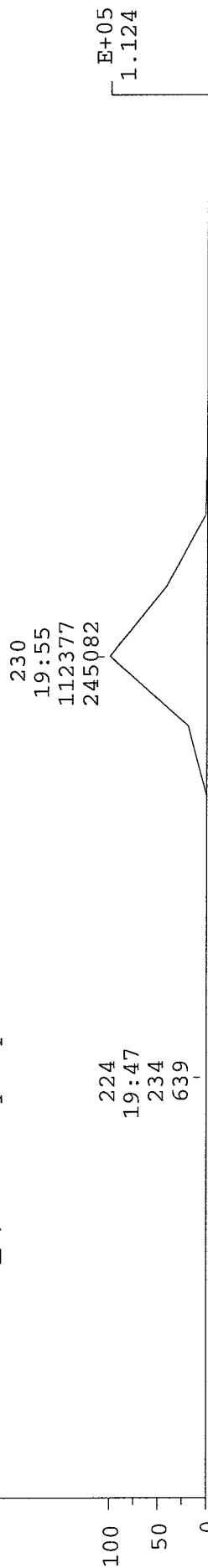
Elapse: 40:59 1326
 Start : 19:13:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

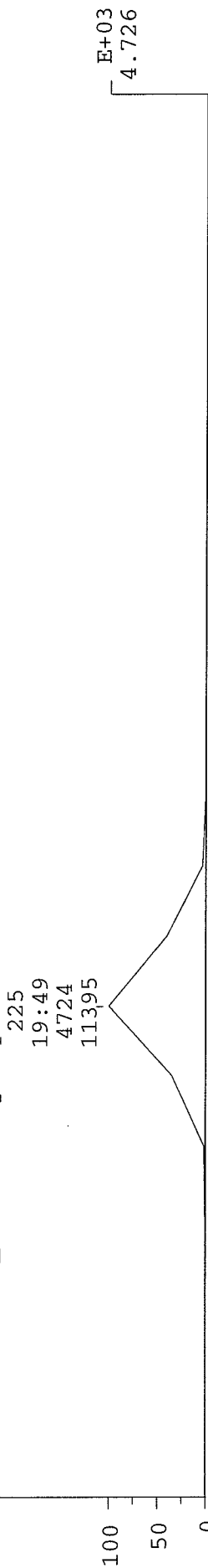
m/z:155 "C12H12_2,6-Dimethylnaphthalene"



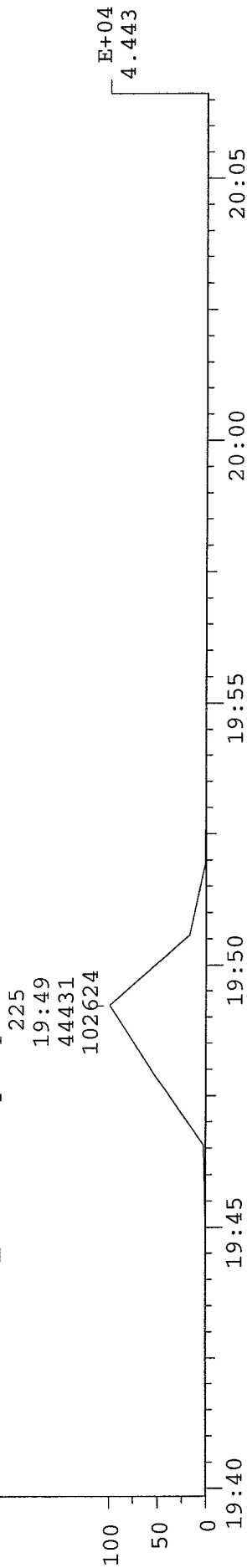
m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"

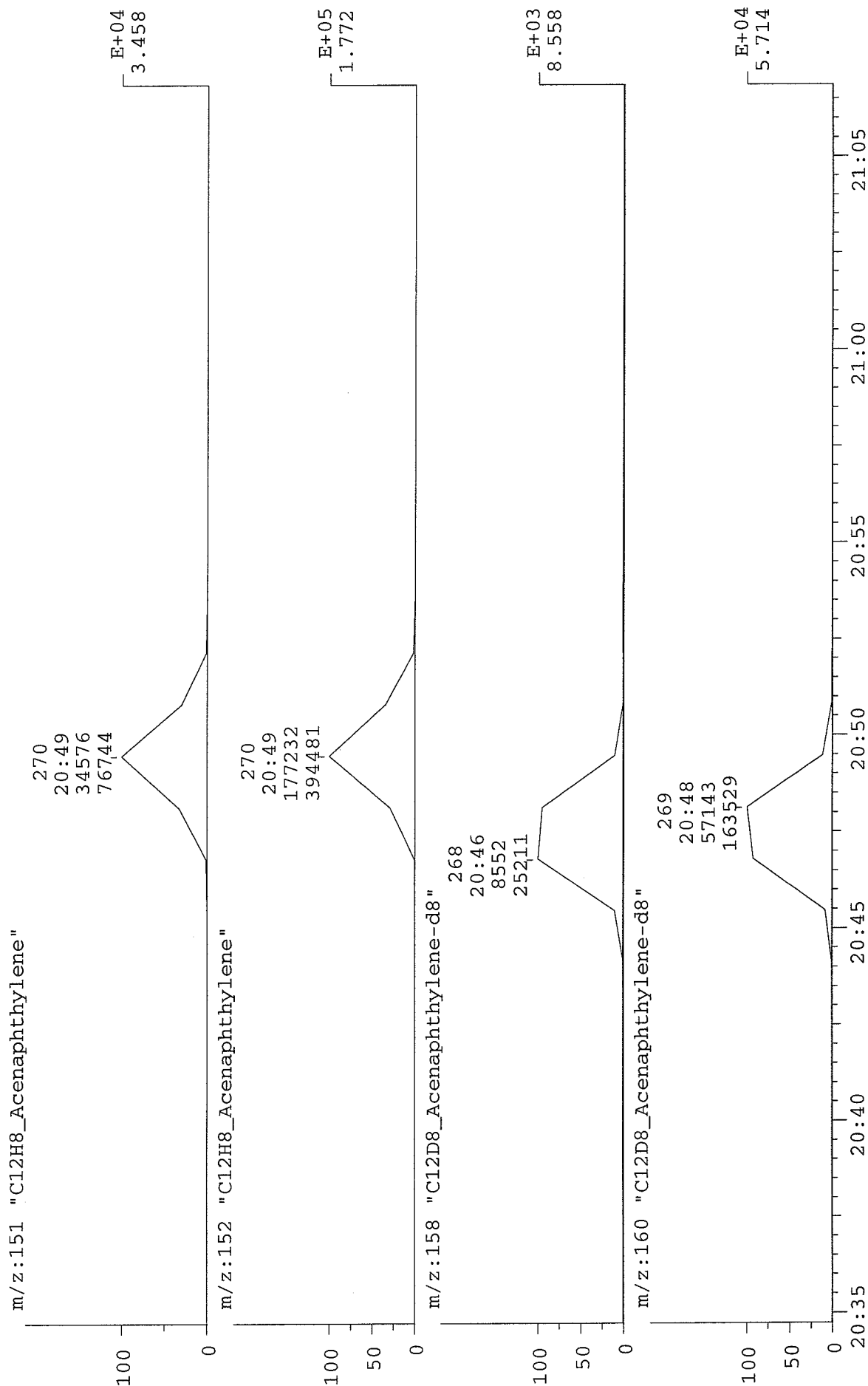


m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



CHRO: y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

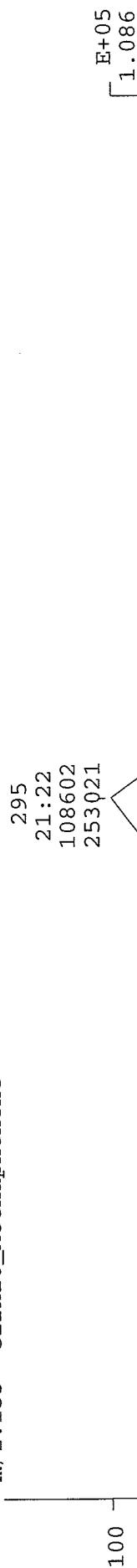


CHRO: Y060405i5
 Samp: W0=3377:01_5 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 283 > 307
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

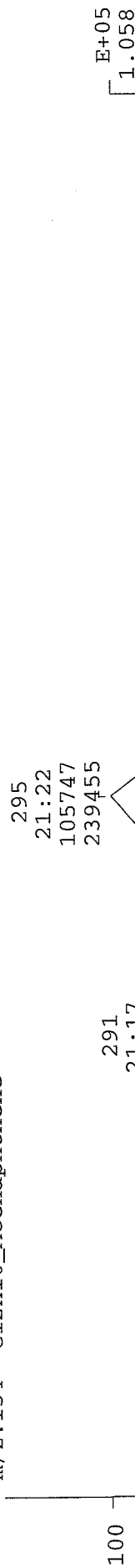
05-APR-06 Elapse: 40:59 1326
 Start : 19:13:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:153 "C12H10_Acenaphthene"



m/z:154 "C12H10_Acenaphthene"



m/z:163 "C12D10_Acenaphthene"



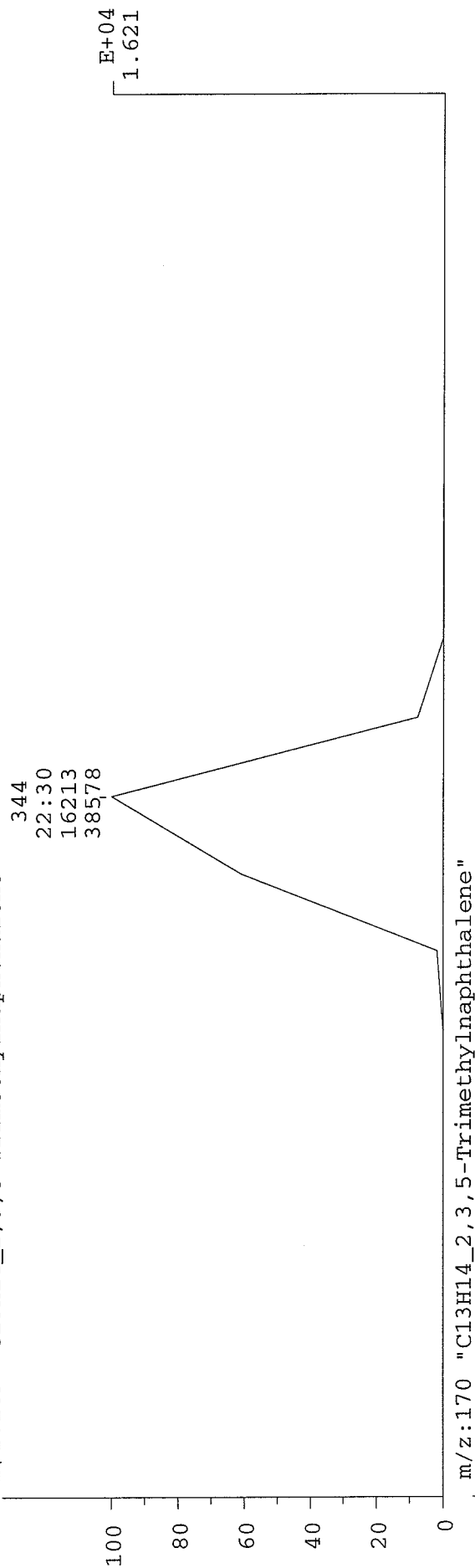
m/z:164 "C12D10_Acenaphthene"



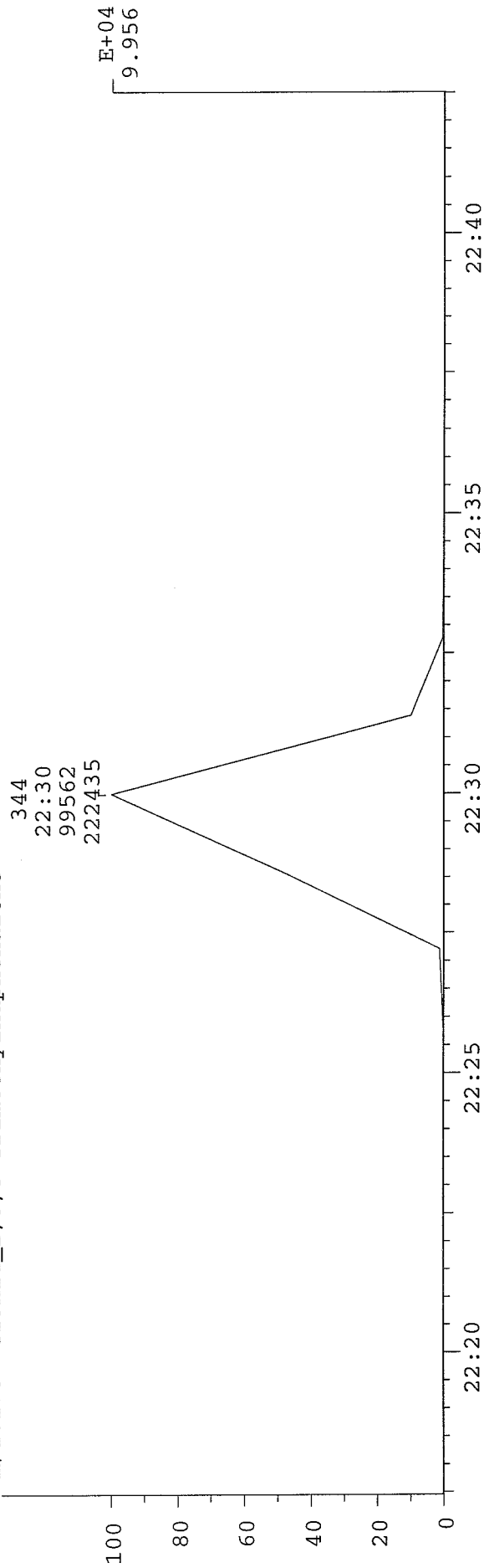
CHRO: y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"



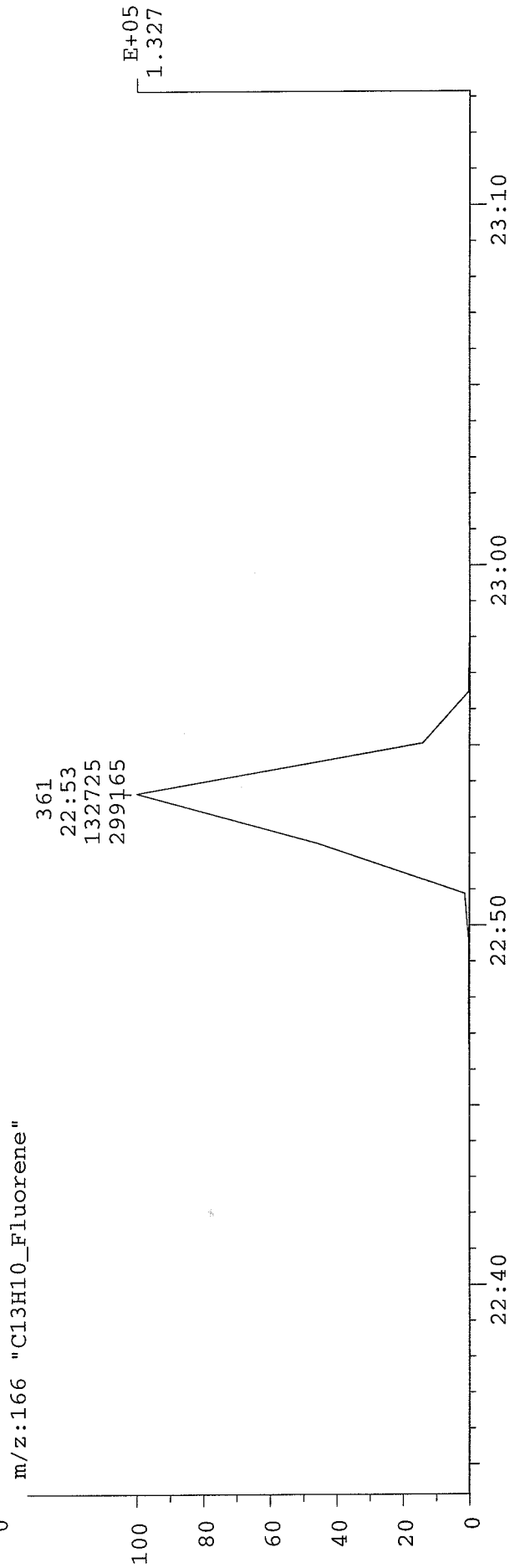
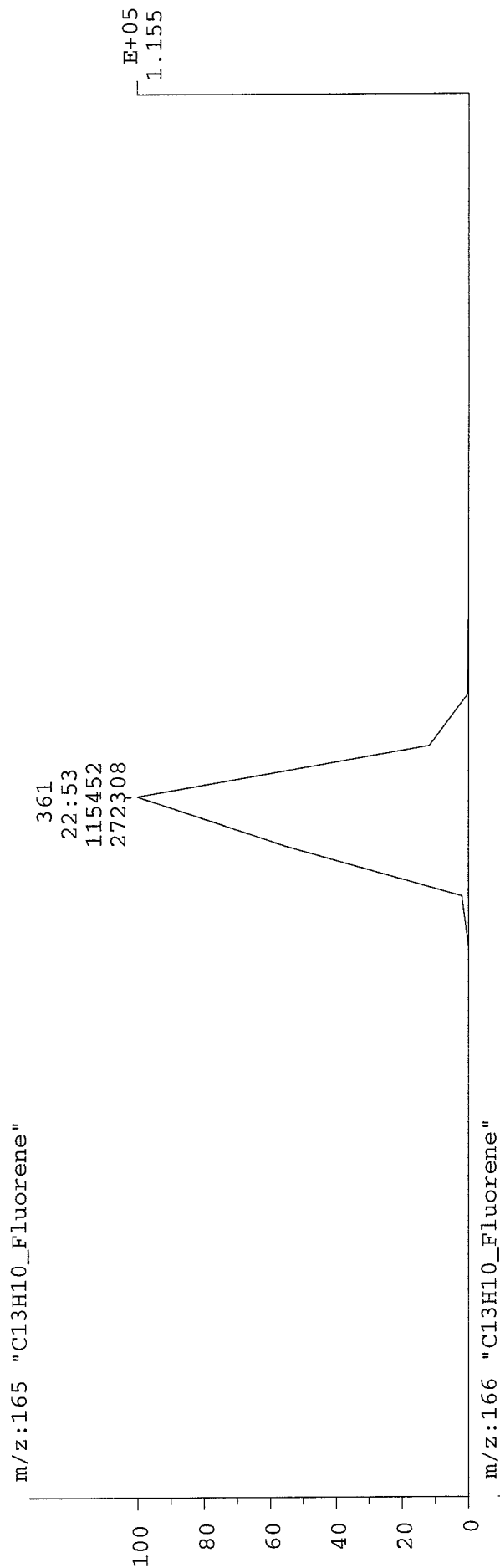
m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"



CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384

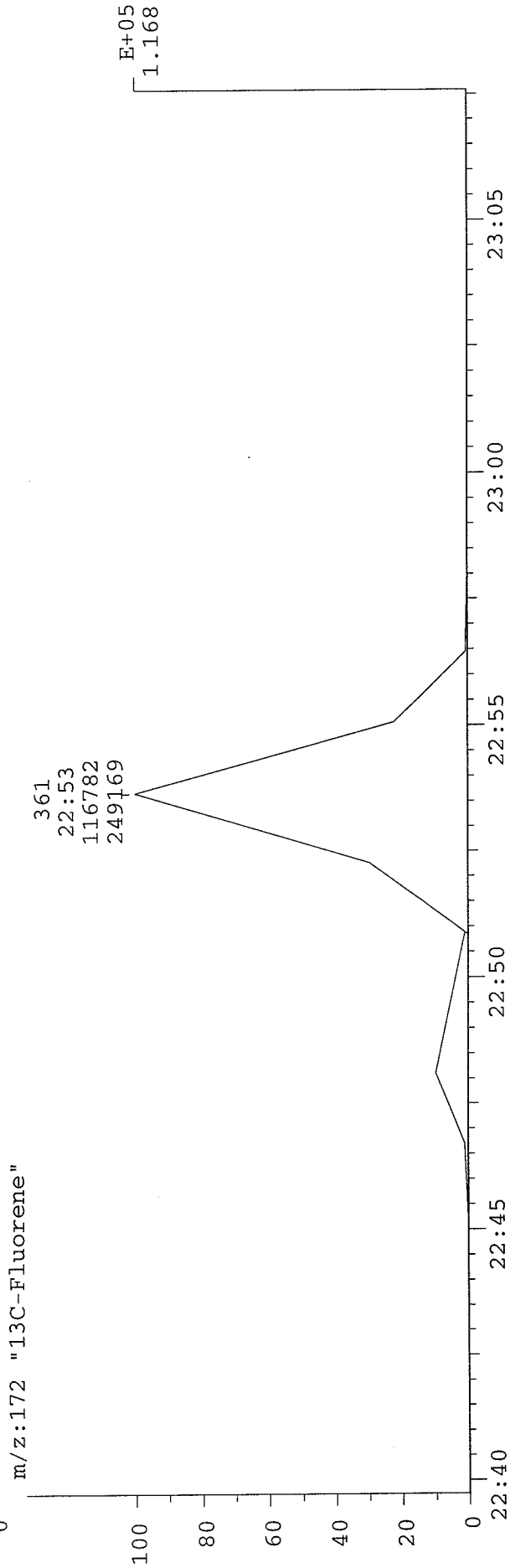
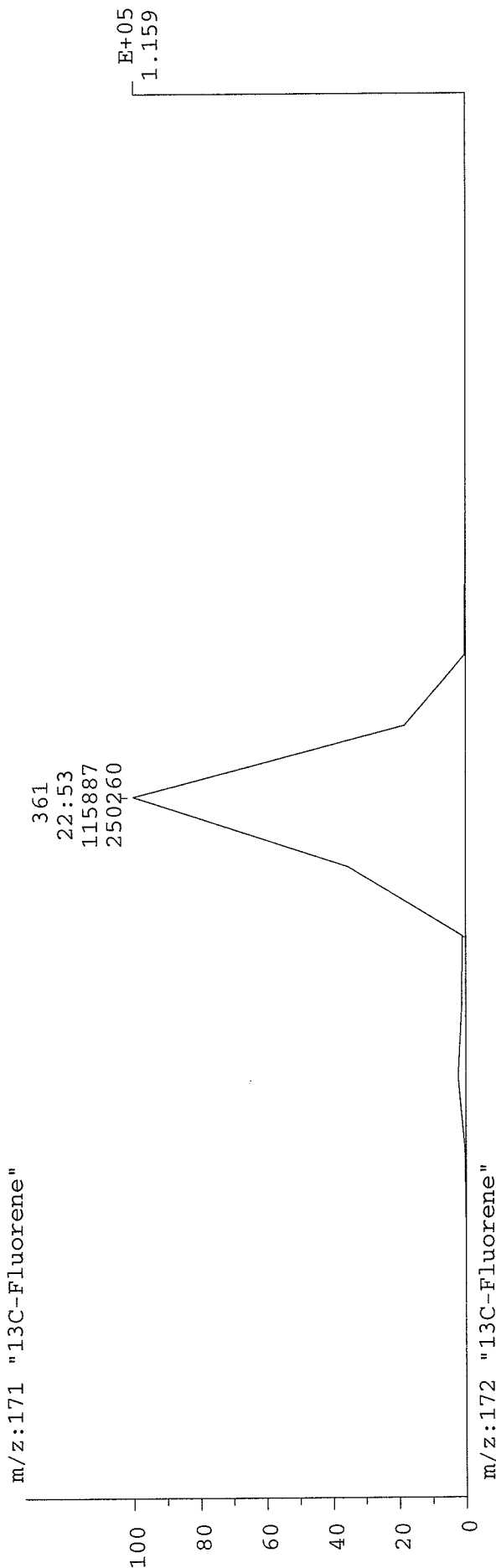
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i5
 Samp: WO=3377:01_5 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 351 > 371
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06 Elapse: 22:49.5 358
 Start : 19:13:00 1384

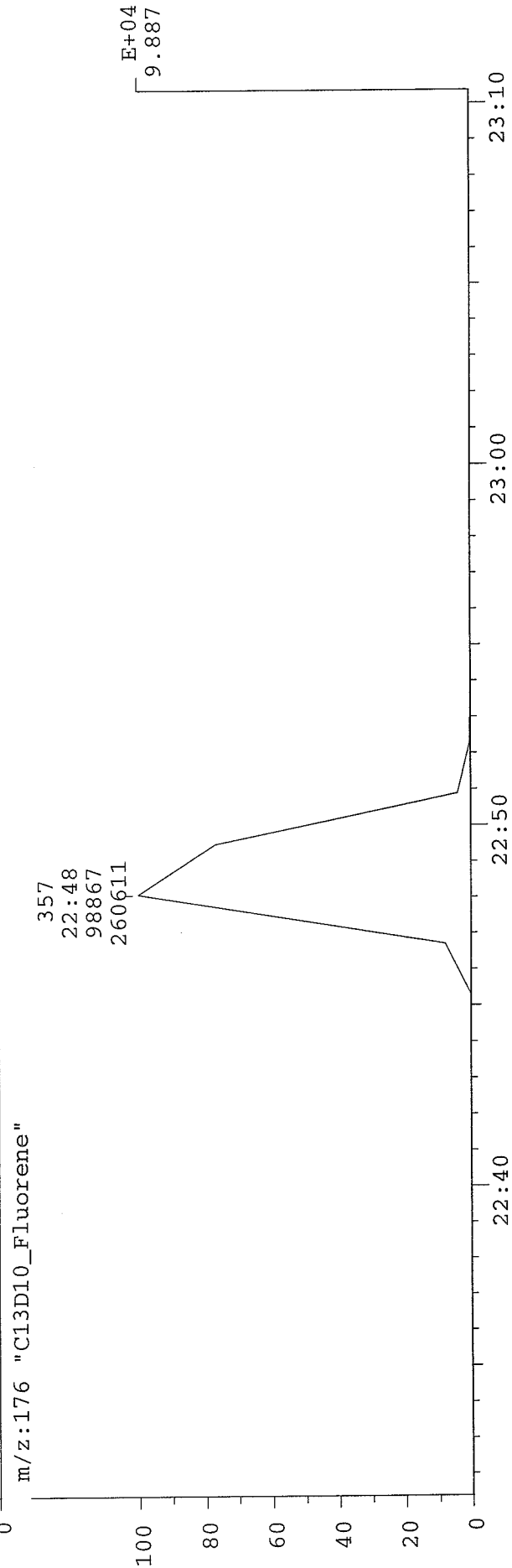
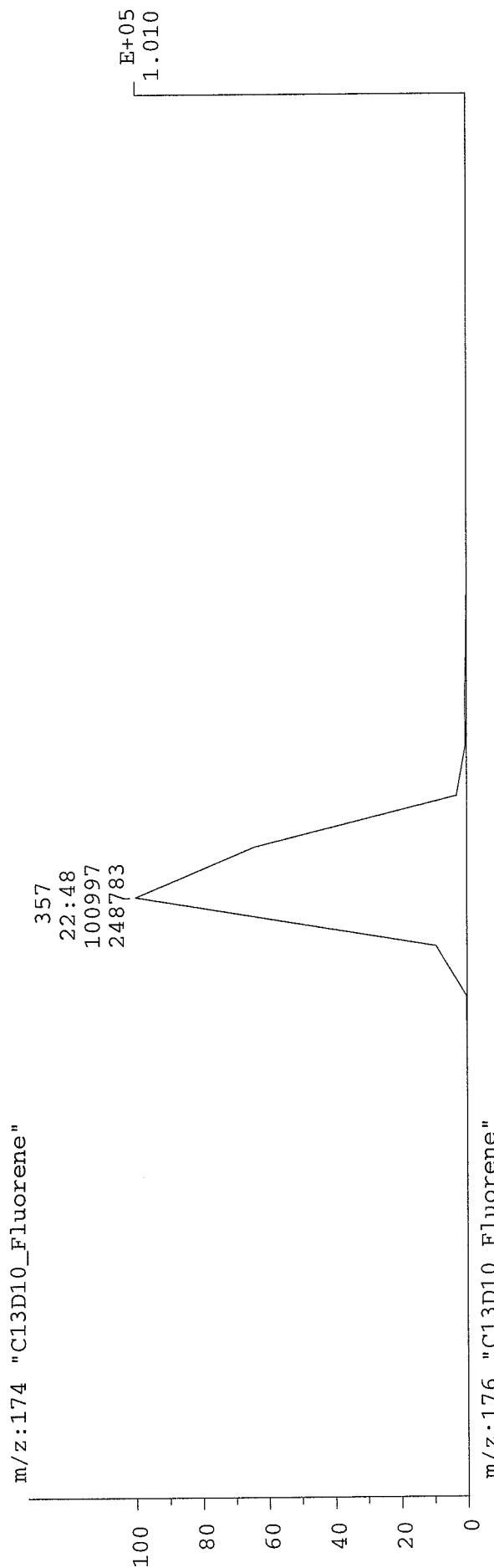
Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 345 > 373
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

Elapse: 22:49.5 358
Start : 19:13:00 1384

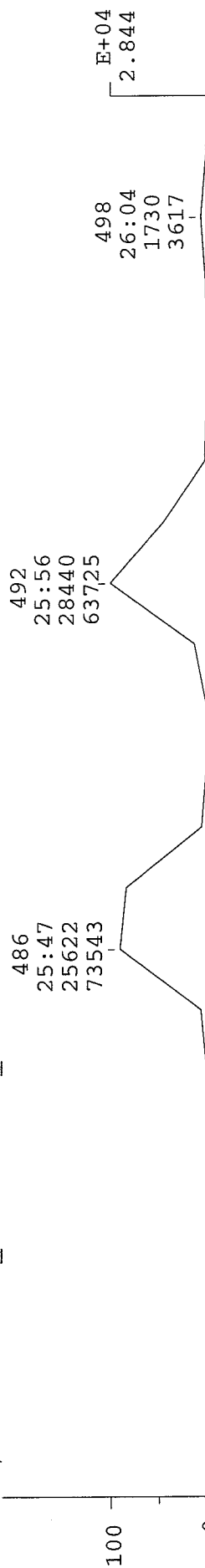
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



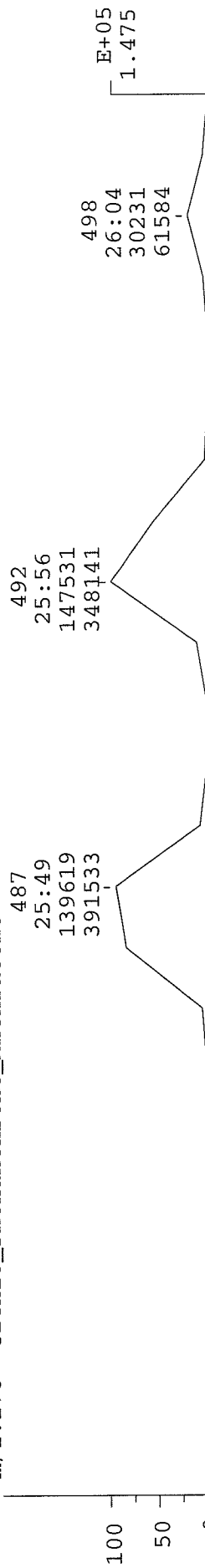
CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

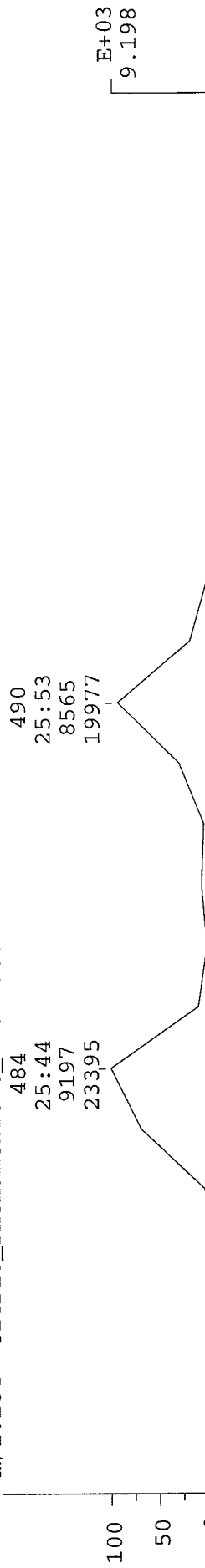
m/z:176 "C14H10_Phenanthrene_Anthracene"



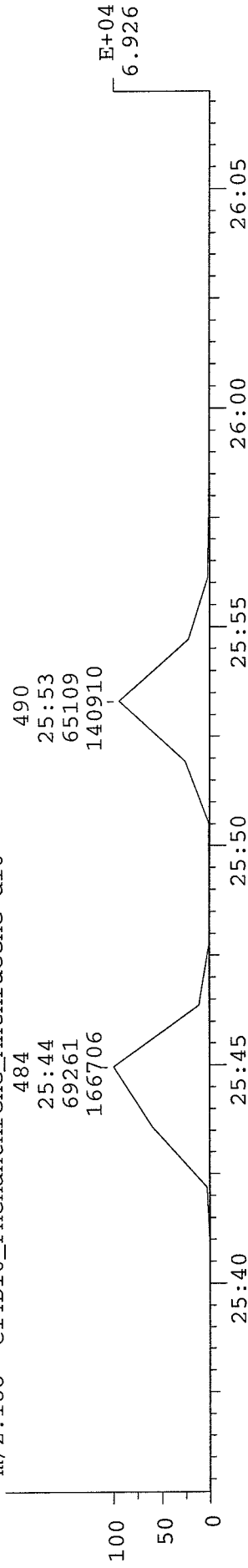
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



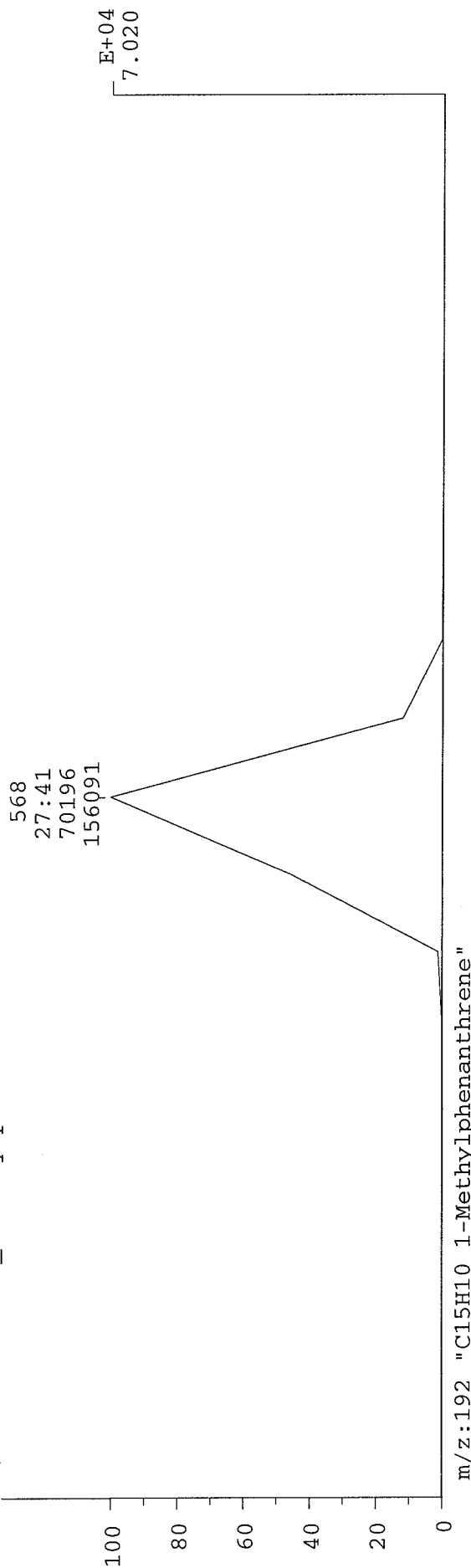
m/z:188 "C14D10_Phenanthrene_Anthracene-d10"



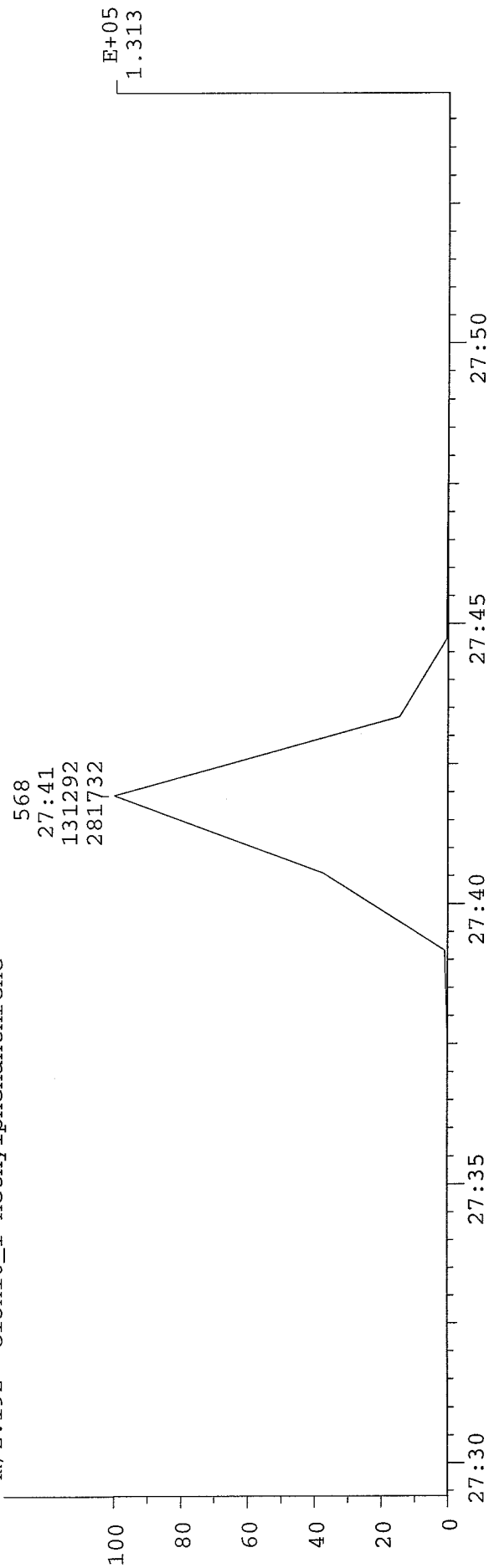
CHRO: y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

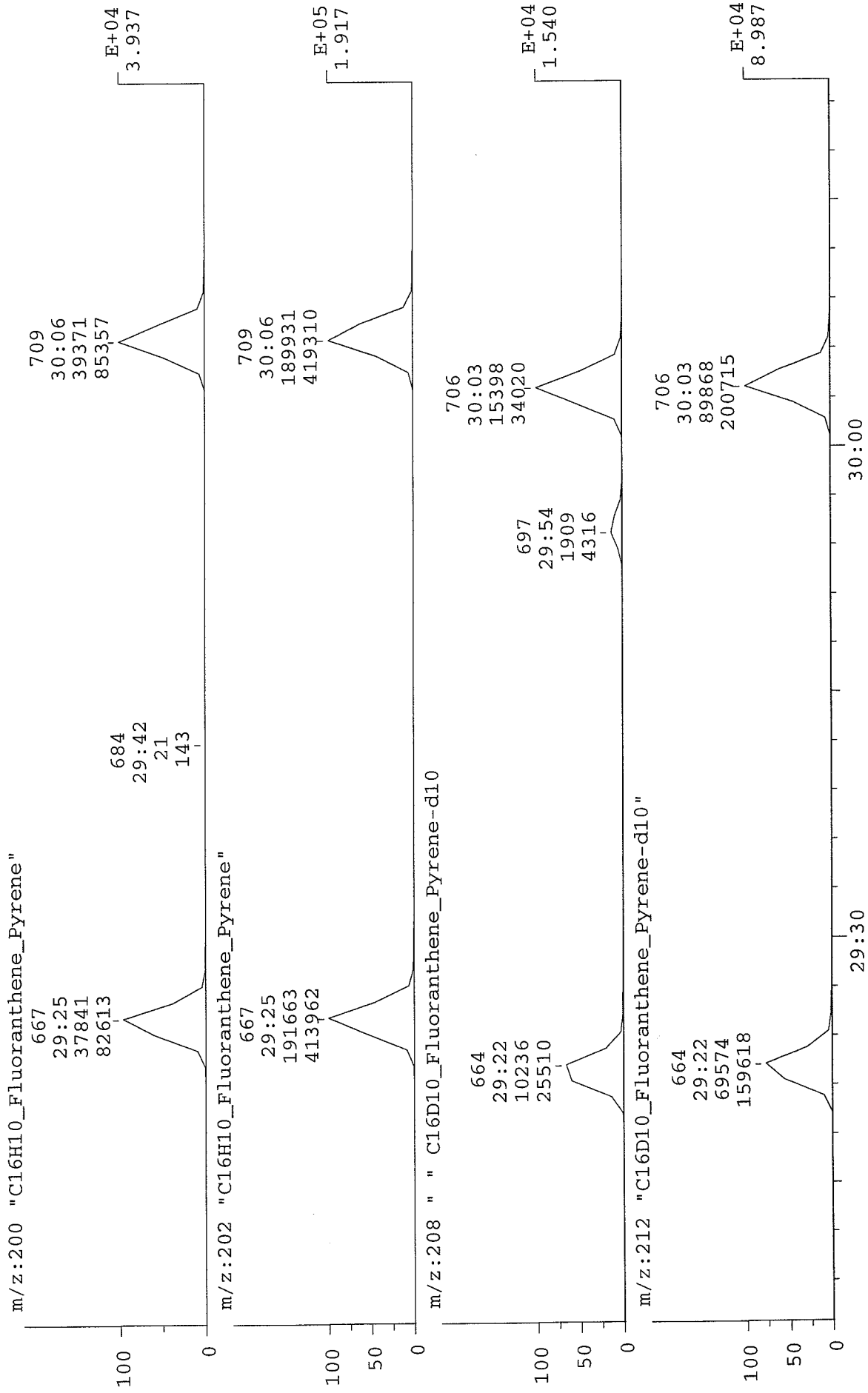
m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Y060405i5
 Samp: WO=3377:01_5 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 648 > 725
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area



CHRO: Y060405i5
 Samp: WO=3377:01_5 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wdw: 916 > 945
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

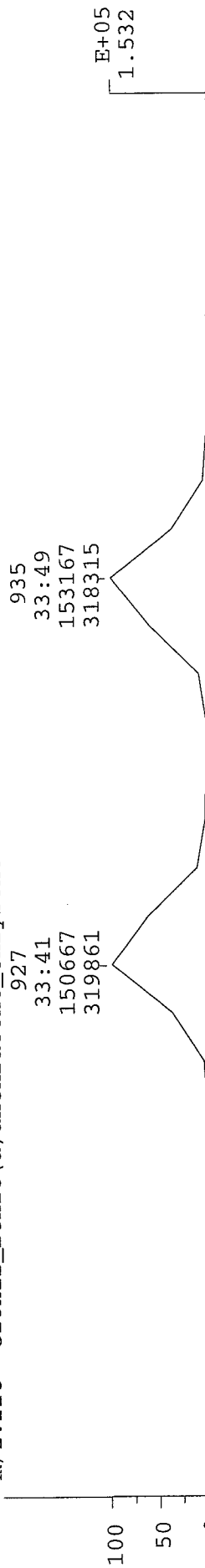
05-APR-06 Elapse: 40:59 1326
 Start : 19:13:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

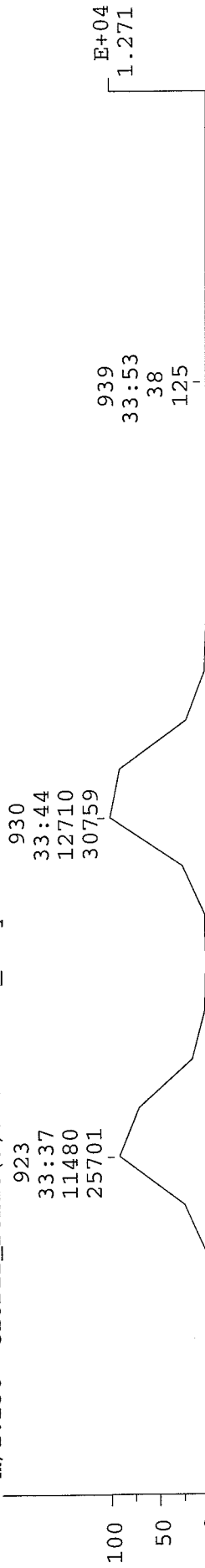
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



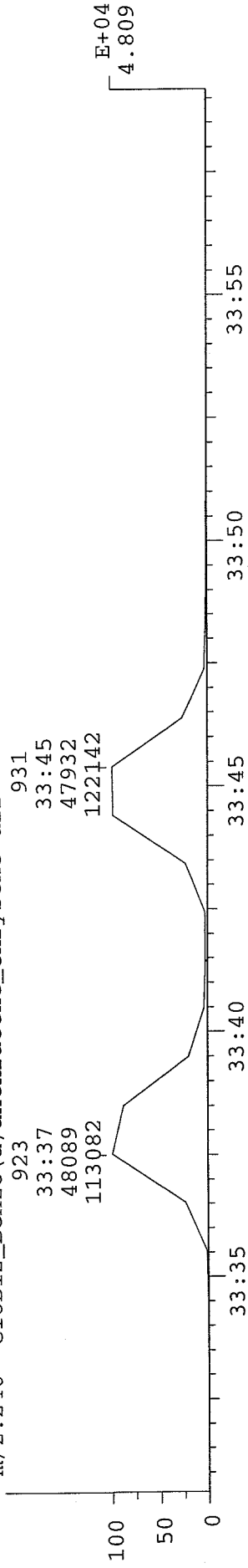
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"

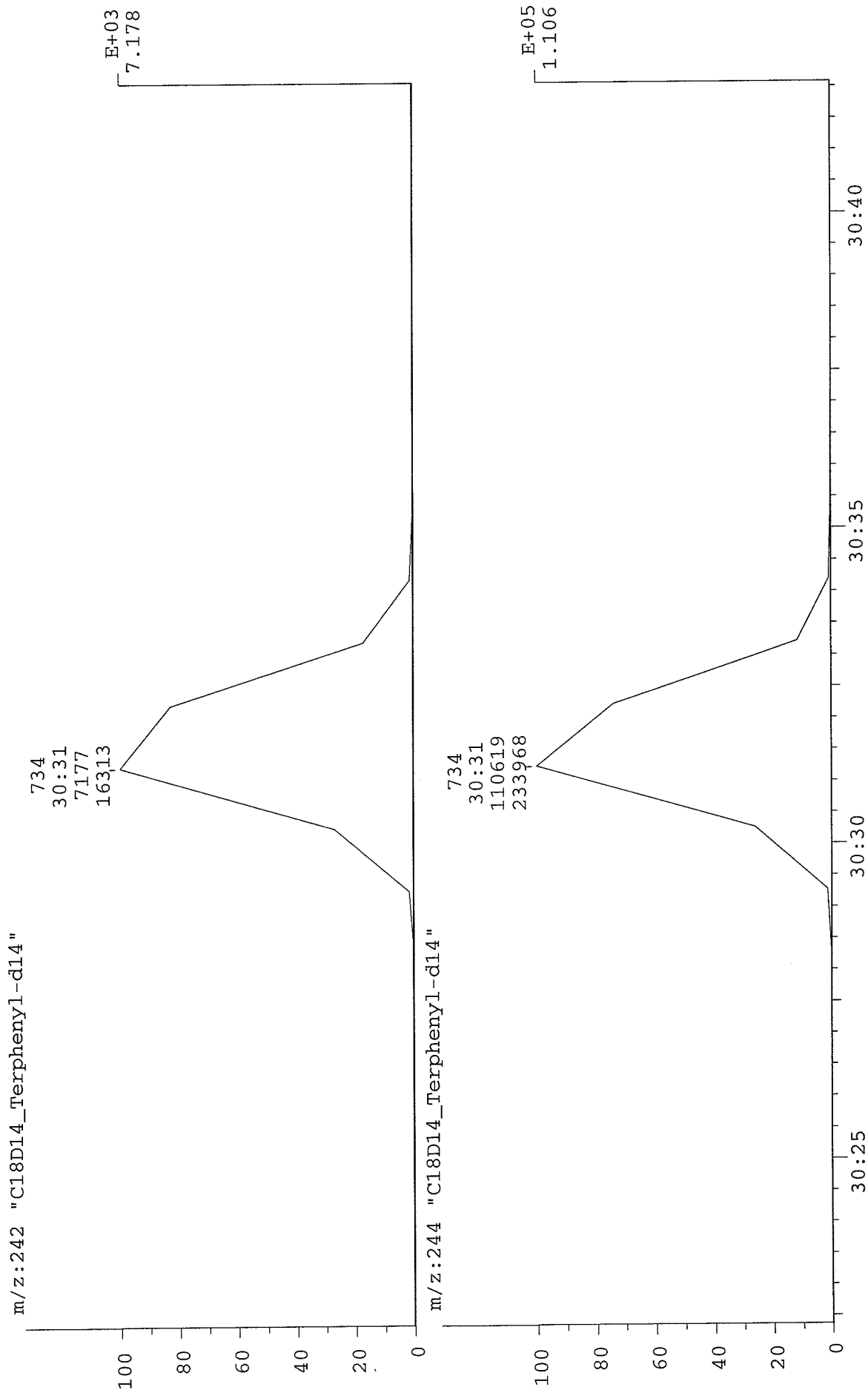


m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"



CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 725 > 745
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 22:49.5 358
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

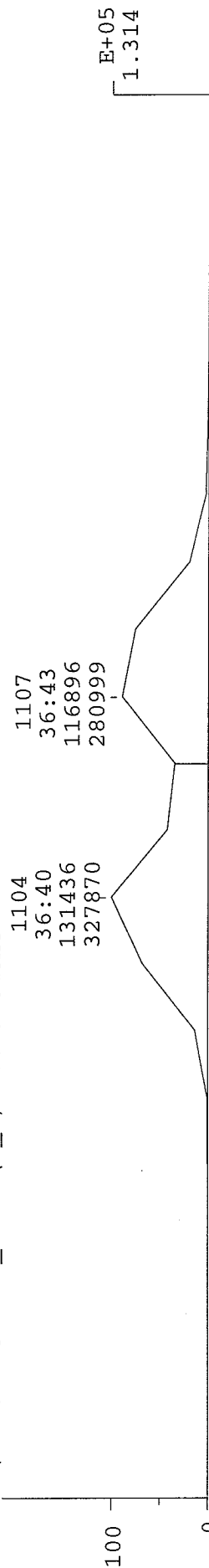


CHRO: y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1095 > 1116
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

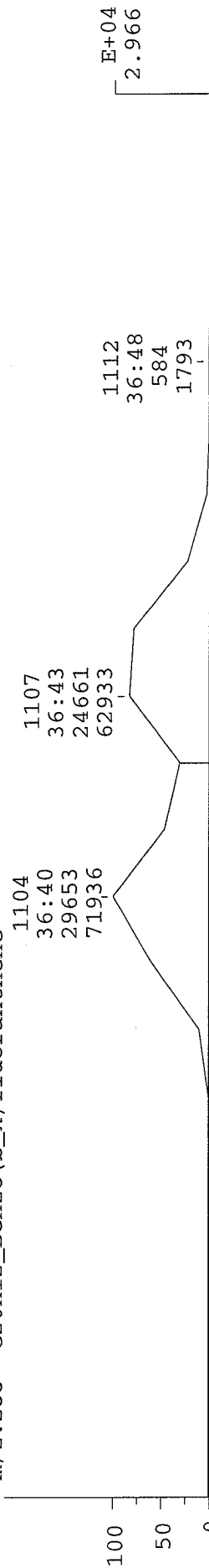
05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

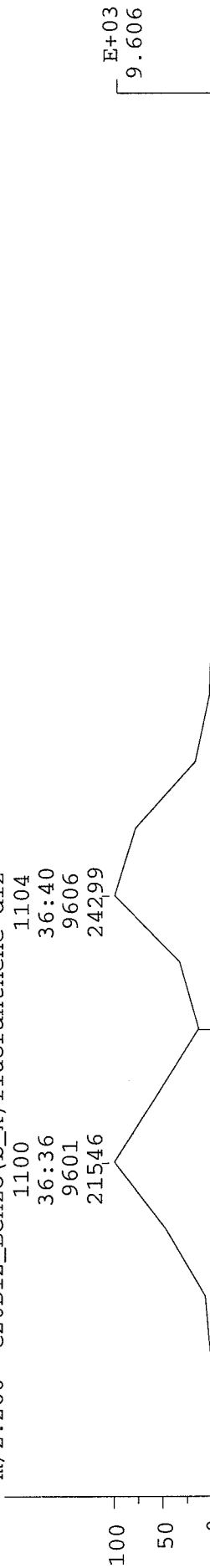
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



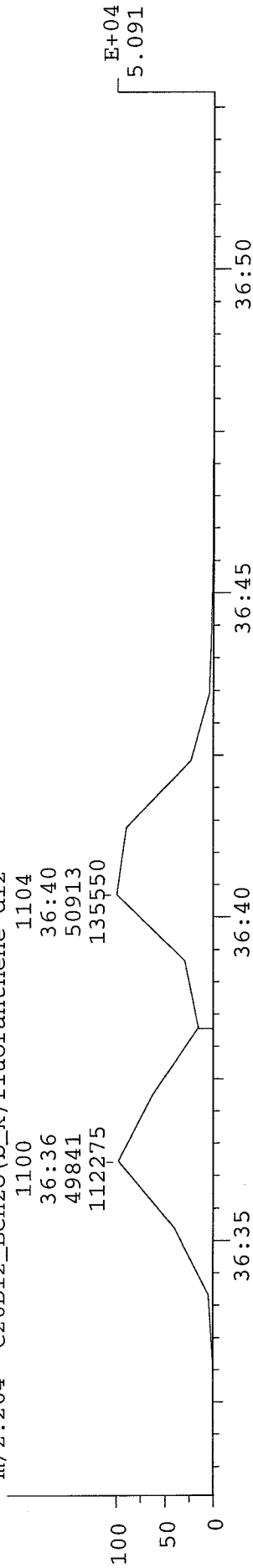
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"

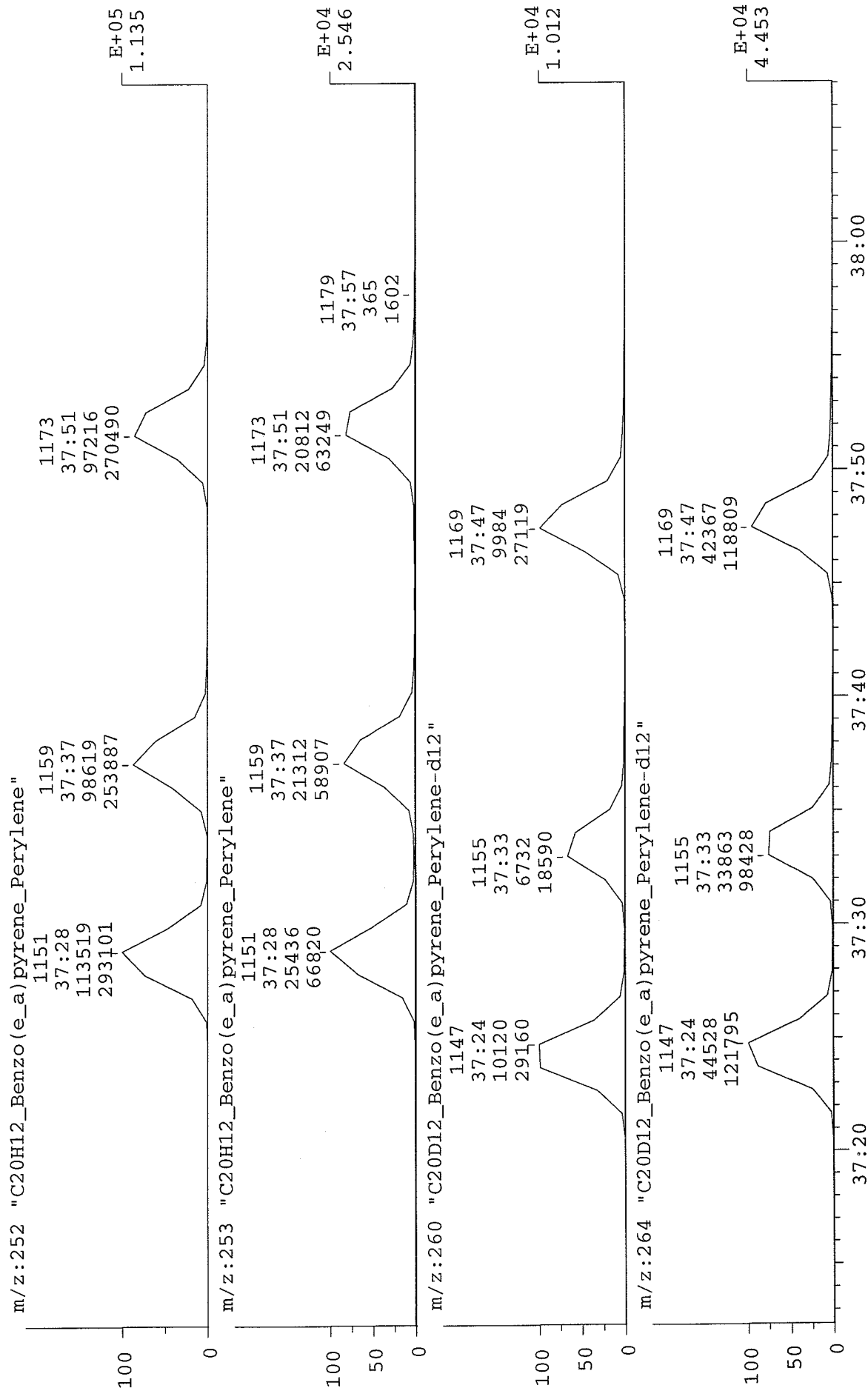


m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



CHRO: Y060405i5
Samp: WO=3377:01_5 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 1135 > 1188
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 40:59 1326
Start : 19:13:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i5

Samp: WO=3377:01_5 Meth=YA1 Dil=1

Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD

Mode: EI +VE + LMR (LIN) UP LR NETCDF

Oper: JMN Client: STL Knoxville

Peak: 100.00 ppm Label wndw: 1321 > 1387

Area: 5, 0.50, 15 Baseline : 100, 1

Disp: Height Area

05-APR-06 Elapse: 40:59 1326

Start : 19:13:00 1384

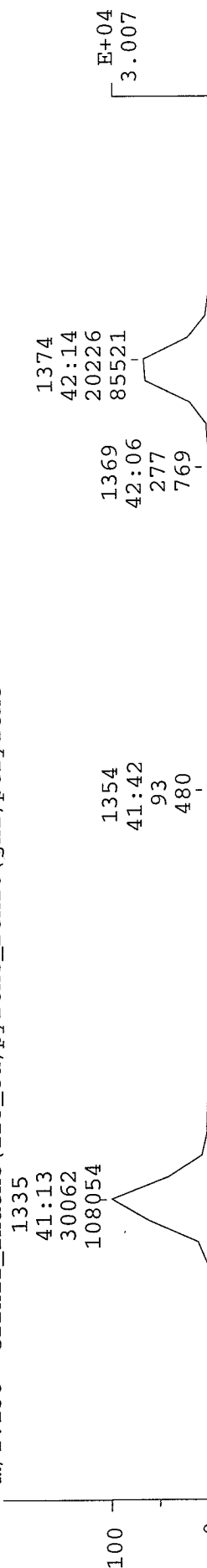
Study : 3377:01 Initial Cali

Inlet :

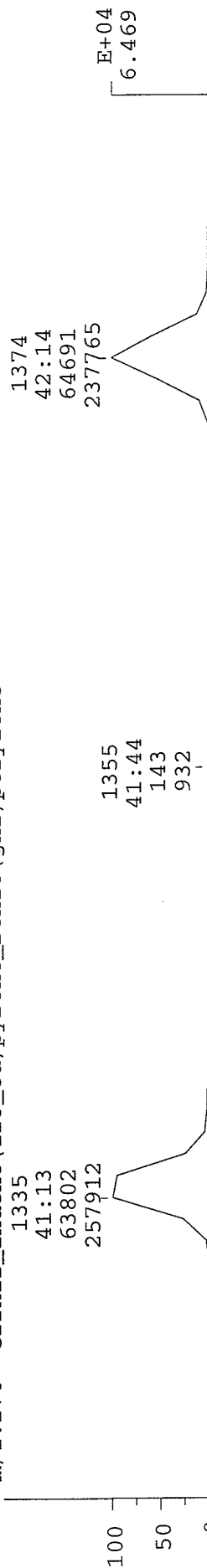
Masses: 0 > 308

Label : -2, 3.0

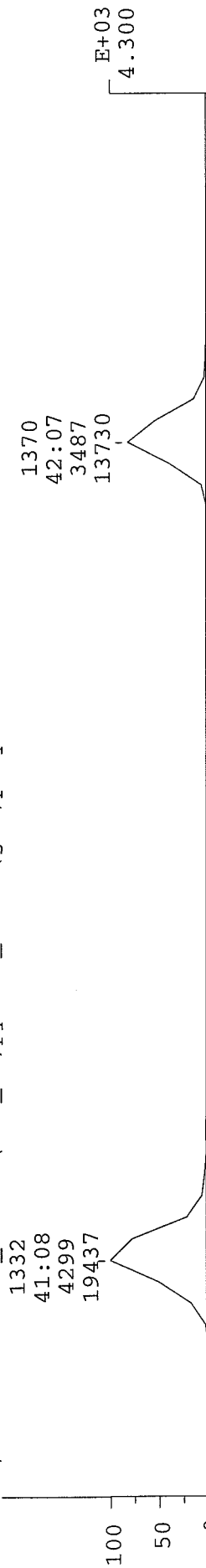
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



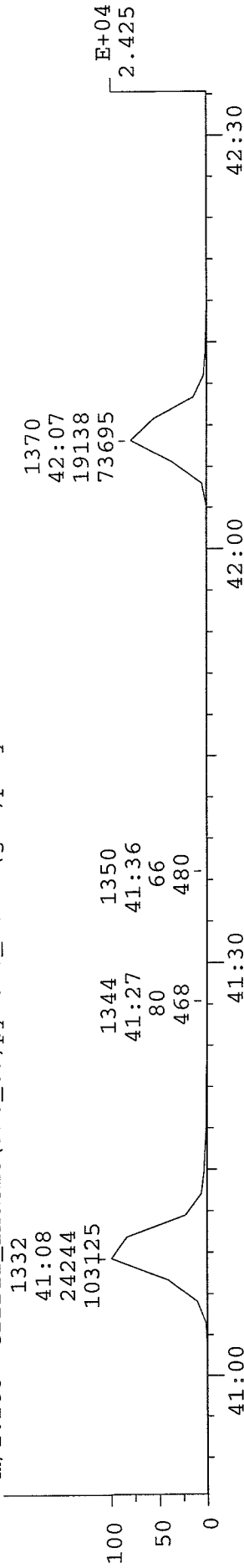
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



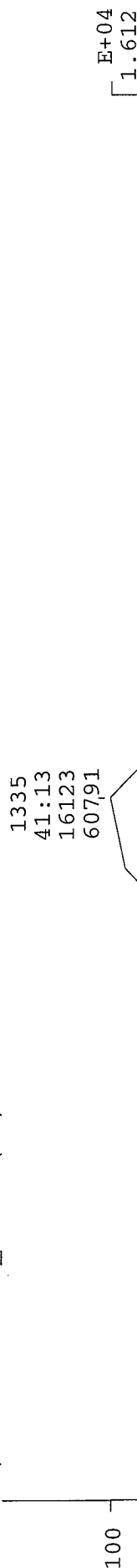
CHRO: Y060405i5
 Samp: WO=3377:01_5 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1325 > 1345
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06

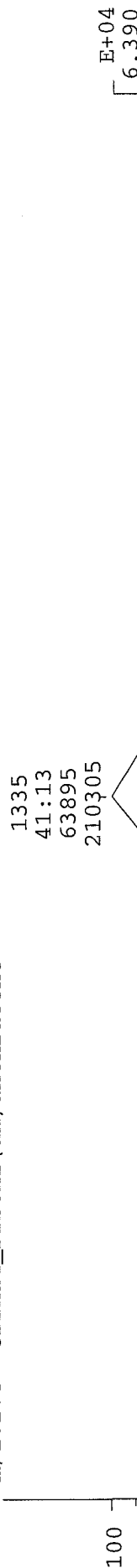
Elapse: 40:59 1326
 Start : 19:13:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: Y60405I5.D
 Date Acquired: 5 Apr 2006 7:13 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060405I5
 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 Wed Apr 05 20:06:03 2006
 d:\cdf\files\Y60405I5.CDF Translated at Wed Apr 05 20:06:03 2006 Elapsed: 0 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 5 14:32:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60405i5.dat
 NetCDF File (input): /usr/users/hp/data/y60405i5.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 5 14:32:03 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder 3377:01_6	Prep Batch	Lot No
Data File /20060405I/y060405i6.d	Prep Date	SDG No
Analysis ID 89896	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 20:04	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	153445	53042	1.000	500.0	866.343342	173.27	866.343342	0.343
Naphthalene	16:03	960792	302386	1.000	2500	3130.73740	125.23	3130.73740	0.495
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	2500			ND	0.000000
2-Methylnaphthalene	18:04	650532	272724	1.000	2500	3320.90459	132.84	3320.90459	0.240
2-Methylnaphthalene-d10	17:59	97945	41652	1.000	500.0	552.992920	110.60	552.992920	0.249
1-Methylnaphthalene	18:24	607644	228793	1.000	2500	3574.79703	142.99	3574.79703	0.273
1-Methylnaphthalene-d10	18:18	84990	36589	1.000	500.0	479.849592	95.97	479.849592	0.249
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	19:27	782630	294945	1.000	2500	3995.25244	159.81	3995.25244	0.690
2,6-Dimethylnaphthalene	19:56	574827	267946	1.000	2500	3313.84972	132.55	3313.84972	1.42
2,6-Dimethylnaphthalene-d1	19:49	86731	36905	1.000	500.0	489.679197	97.94	489.679197	0.312
C2 Alkyl naphthalenes				1.000		3313.84972		3313.84972	0.990
Acenaphthylene	20:49	931872	424961	1.000	2500	3339.94724	133.60	3339.94724	0.213
Acenaphthylene-d8	20:48	139504	46895	1.000	500.0	787.633103	157.53	787.633103	0.218
Acenaphthene-d10	21:17	88559	40123	1.000	500.0	500.000000	100.00	500.000000	0.218
Acenaphthene	21:23	561965	252034	1.000	2500	2014.15372	80.57	2014.15372	0.613
2,3,5-Trimethylnaphthalene	22:30	532775	241772	1.000	2500	3071.42198	122.86	3071.42198	0.373
C3 Alkyl naphthalenes				1.000		3071.42198		3071.42198	0.259
Fluorene d-10	22:48	629220	229418	1.000	2500	2222.04173	88.88	2222.04173	0.128
Fluorene-Cl3	22:53	597821	281249	1.000	2500	2111.15859	84.45	2111.15859	0.128
Fluorene	22:53	696483	323052	1.000	2500	2459.57581	98.38	2459.57581	0.192
Phenanthrene-d10	25:45	141586	58552	1.000	500.0	373.437920	74.69	373.437920	0.132
Phenanthrene	25:49	917155	351324	1.000	2500	3238.86189	129.55	3238.86189	0.213
Anthracene-d10	25:53	135699	62791	1.000	500.0	357.910756	71.58	357.910756	0.132
Anthracene	25:56	844822	334852	1.000	2500	2983.42350	119.34	2983.42350	0.213
1-Methylphenanthrene	27:42	676609	320838	1.000	2500	2389.39231	95.58	2389.39231	0.235
Fluoranthene-d10	29:22	138214	61613	1.000	500.0	364.544155	72.91	364.544155	0.132
Fluoranthene	29:25	992630	459494	1.000	2500	3590.91698	143.64	3590.91698	0.264
Pyrene-d10	30:03	189571	85057	1.000	500.0	500.000000	100.00	500.000000	0.132
Pyrene	30:06	1012844	439413	1.000	2500	3664.04272	146.56	3664.04272	0.264
Terphenyl-d14	30:31	591757	250958	1.000	2500	2140.72742	85.63	2140.72742	0.0812
Benzo(a) Anthracene-d12	33:37	101024	40136	1.000	500.0	266.454257	53.29	266.454257	0.118
Benzo(a) anthracene	33:41	811353	366387	1.000	2500	4015.64480	160.63	4015.64480	0.467
Chrysene-d12	33:45	109663	47554	1.000	500.0	289.239915	57.85	289.239915	0.118
Chrysene	33:49	788680	380118	1.000	2500	3595.92570	143.84	3595.92570	0.394
Benzo(b) Fluoranthene-d12	36:36	100193	43400	1.000	500.0	421.655767	84.33	421.655767	0.724
Benzo(k) Fluoranthene-d12	36:41	125994	48687	1.000	500.0	530.237608	106.05	530.237608	0.724
Benzo(b) fluoranthene	36:40	801283	331352	1.000	2500	3998.69751	159.95	3998.69751	1.27
Benzo(k) fluoranthene	36:44	747206	303752	1.000	2500	2965.24438	118.61	2965.24438	1.13
Benzo(e) pyrene-d12	37:24	118809	44907	1.000	500.0	500.000000	100.00	500.000000	0.724
Benzo(e) pyrene	37:28	734183	291731	1.000	2500	4066.81992	162.67	4066.81992	1.73
Benzo(a) Pyrene-d12	37:34	90265	31761	1.000	500.0	379.874420	75.97	379.874420	0.724
Benzo(a) pyrene	37:37	663608	232641	1.000	2500	3675.88766	147.04	3675.88766	1.73
Perylene-d12	37:47	108311	37663	1.000	500.0	455.819845	91.16	455.819845	0.724
Perylene	37:52	701095	246887	1.000	2500	3236.49029	129.46	3236.49029	1.46
7-Methylcholanthrene				1.000	2500			ND	0.996

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder 3377:01_6	Prep Batch	Lot No
Data File /20060405I/y060405i6.d	Prep Date	SDG No
Analysis ID 89896	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 20:04	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	41:07	49243	14324	1.000	500.0	207.235984	41.45	207.235984	0.278
Indeno(1,2,3-cd)pyrene-d12	41:08	94970	21429	1.000	500.0	399.675109	79.94	399.675109	0.223
Indeno(1,2,3-cd)pyrene	41:14	662604	183895	1.000	2500	3488.49110	139.54	3488.49110	1.05
Dibenz (a,h) anthracene	41:13	545677	155688	1.000	2500	5540.65552	221.63	5540.65552	1.40
Benzo(ghi) Perylene-d12	42:07	66741	17091	1.000	500.0	280.875186	56.18	280.875186	0.223
Benzo(ghi) perylene	42:14	603212	153463	1.000	2500	4519.05126	180.76	4519.05126	1.32
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	2500			ND	0.000000

PAH's by LRMS Extended List

Workorder 3377:01_6	Prep Batch	Lot No
Data File /20060405I/y060405i6.d	Prep Date	SDG No
Analysis ID 89896	Prep Exp Date	Date Received
Analysis Date 04/05/06 20:04	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	53		21				
	Naphthalene	16:03	00:00	0	960792		302386			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	28		11				
	Naphthalene-d8	15:58	00:00	0	153445		53042			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene	18:04	00:00	0	650532		272724			ABV	
	1-Methylnaphthalene	18:24	00:00	0	607644		228793			AVB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	20		8				
	2-Methylnaphthalene-d10	17:59	00:00	0	97945		41652			ABV	
	1-Methylnaphthalene-d10	18:18	00:00	0	84990		36589			AVB	
	Acenaphthylene	20:49	00:00	0	931872		424961			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	58		23				
	Biphenyl	19:27	00:00	0	782630		294945			ABB	
	Acenaphthene	21:23	00:00	0	561965		252034			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	105		42				
	2,6-Dimethylnaphthalene	19:56	00:00	0	574827		267946			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	18		7				
	Acenaphthylene-d8	20:48	00:00	0	139504		46895			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	18		7				
	Acenaphthene-d10	21:17	00:00	0	88559		40123			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	23		9				
	Fluorene	22:53	00:00	0	696483		323052			AVB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	25		10				
	2,6-Dimethylnaphthalene	19:49	00:00	0	86731		36905			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	13		5				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	28		11				
	2,3,5-Trimethylnaphthal	22:30	00:00	0	532775		241772			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

PAH's by LRMS Extended List

Workorder 3377:01_6	Prep Batch	Lot No
Data File /20060405I/y060405i6.d	Prep Date	SDG No
Analysis ID 89896	Prep Exp Date	Date Received
Analysis Date 04/05/06 20:04	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 YAI

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	22:53	00:00	0	597821 ✓		281249		ABV		M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	15		6				
	Fluorene d-10	22:48	00:00	0	629220 ✓		229418		ABV		M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	25		10				
	Phenanthrene	25:49	00:00	0	917155		351324		ABV		M
	Anthracene	25:56	00:00	0	844822		334852		AVV		M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	23		9				
	Phenanthrene-d10	25:45	00:00	0	141586		58552		ABV		M
	Anthracene-d10	25:53	00:00	0	135699		62791		AVB		M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	28		11				
	1-Methylphenanthrene	27:42	00:00	0	676609		320838		ABB		M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	33		13				
	Fluoranthene	29:25	00:00	0	992630		459494		ABV		M
	Pyrene	30:06	00:00	0	1012844		439413		ABV		
212					212.0000		212.0000				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene-d10	29:22	00:00	0	138214		61613		ABV		
	Pyrene-d10	30:03	00:00	0	189571		85057		ABV		
228					228.0000		228.0000				
	Noise	00:00	00:00	0	38		15				
	Benzo(a)anthracene	33:41	00:00	0	811353		366387		ABV		M
	Chrysene	33:49	00:00	0	788680		380118		AVB		M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	20		8				
	Benzo(a)Anthracene-d12	33:37	00:00	0	101024		40136		ABV		
	Chrysene-d12	33:45	00:00	0	109663		47554		AVB		
244					244.0000		244.0000				
	Noise	00:00	00:00	0	10		4				
	Terphenyl-d14	30:31	00:00	0	591757 ✓		250958		ABV		M
252					252.0000		252.0000				
	Noise	00:00	00:00	0	110		44				
	Benzo(b)fluoranthene	36:40	00:00	0	801283		331352		ABV		M
	Benzo(k)fluoranthene	36:44	00:00	0	747206		303752		AVB		M
	Benzo(e)pyrene	37:28	00:00	0	734183		291731		ABV		M
	Benzo(a)pyrene	37:37	00:00	0	663608		232641		AVV		M
	Perylene	37:52	00:00	0	701095		246887		AVB		M
264					264.0000		264.0000				

Notes:
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PAH's by LRMS Extended List

Workorder 3377:01_6	Prep Batch	Lot No
Data File /20060405I/y060405i6.d	Prep Date	SDG No
Analysis ID 89896	Prep Exp Date	Date Received
Analysis Date 04/05/06 20:04	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution Factor 1.00	Code YA1

View Small Peaks? False

View deleted peaks? False

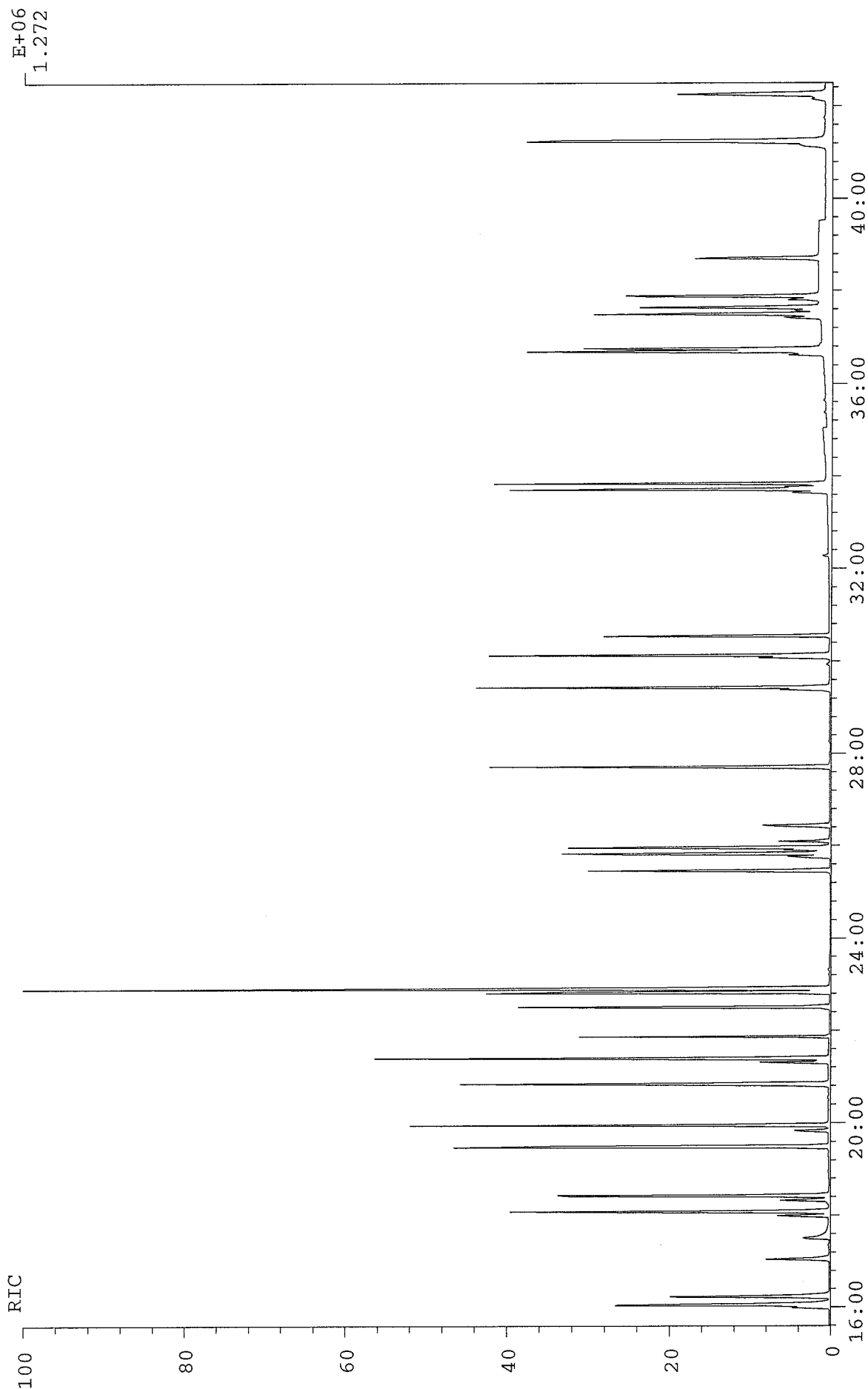
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Noise	00:00	00:00	0	65		26				
	Benzo(b)Fluoranthene-d1	36:36	00:00	0	100193		43400		ABV		M
	Benzo(k)Fluoranthene-d1	36:41	00:00	0	125994		48687		ABV		M
	Benzo(e)pyrene-d12	37:24	00:00	0	118809		44907		ABV		M
	Benzo(a)Pyrene-d12	37:34	00:00	0	90265		31761		AVV		M
	Perylene-d12	37:47	00:00	0	108311		37663		AVV		M
268					268.0000		268.0000				
	Noise	00:00	00:00	0	75		30				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	45		18				
	Indeno(1,2,3-cd)pyrene	41:14	00:00	0	662604		183895		ABV		
	Benzo(ghi)perylene	42:14	00:00	0	603212		153463		ABB		M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	40		16				
	Dibenz(a,h)anthracene	41:13	00:00	0	545677		155688		ABB		
288					288.0000		288.0000				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene-	41:08	00:00	0	94970		21429		ABV		
	Benzo(ghi)Perylene-d12	42:07	00:00	0	66741		17091		ABB		
292					292.0000		292.0000				
	Noise	00:00	00:00	0	25		10				
	Dibenz(ah)Anthracene-d1	41:07	00:00	0	49243		14324		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	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

Int/Calc: J 4/10/06
QC UMC 4/8/06
4/10/06

CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1731 > 1739
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

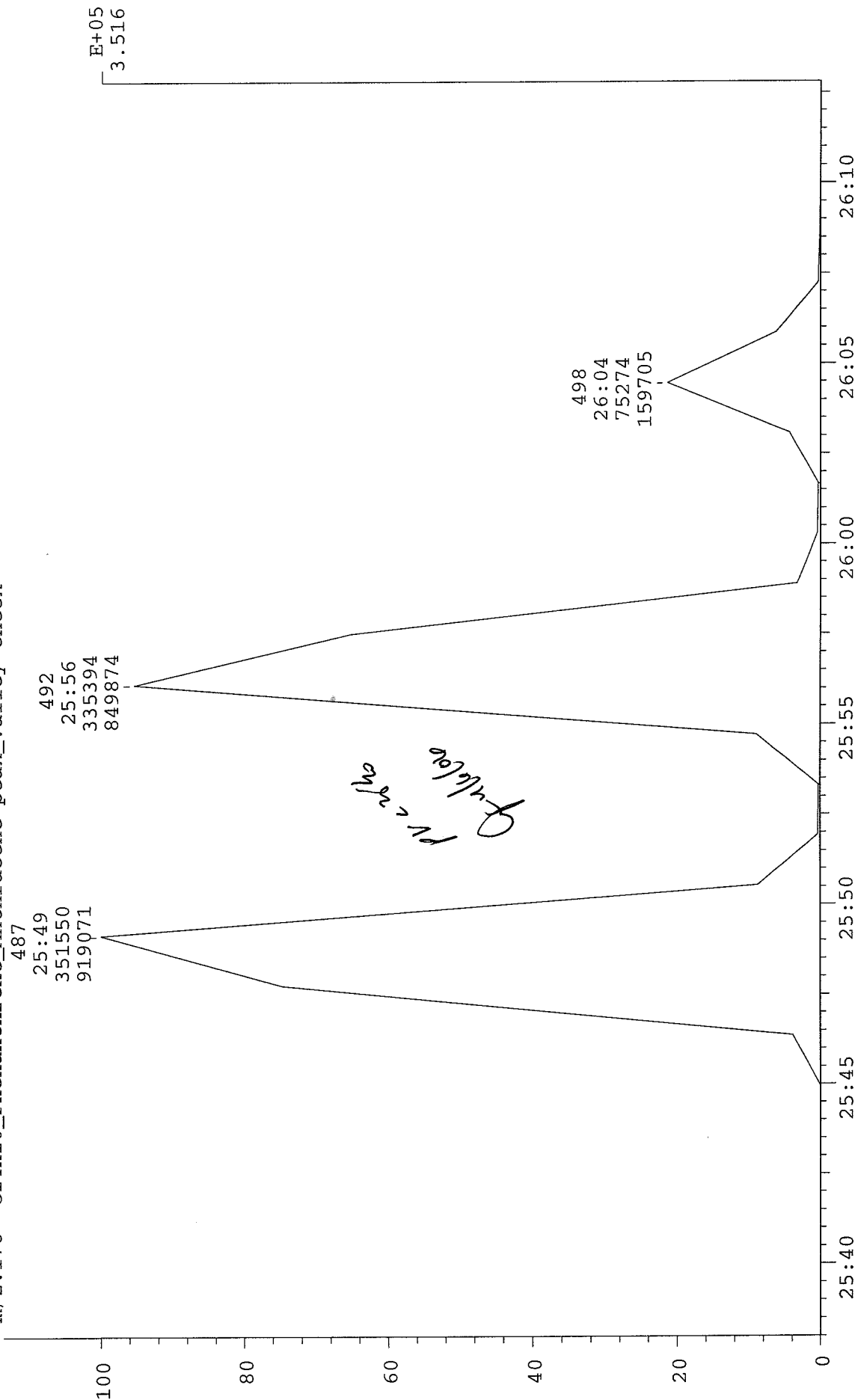
05-APR-06
Elapse: 49:19 1735
Start : 20:04:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : 0, 3.0



CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YAl Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"

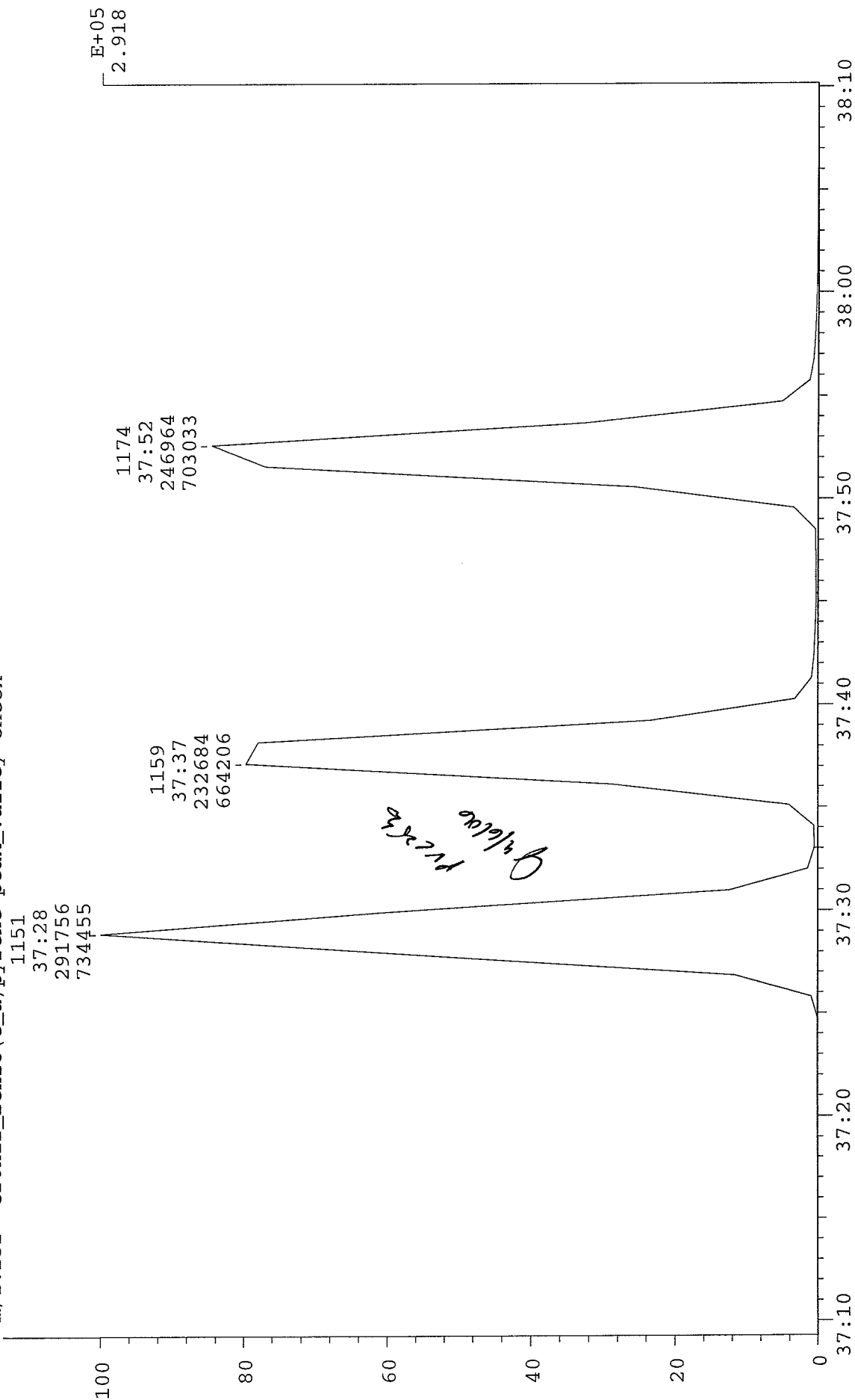


CHRO: y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384

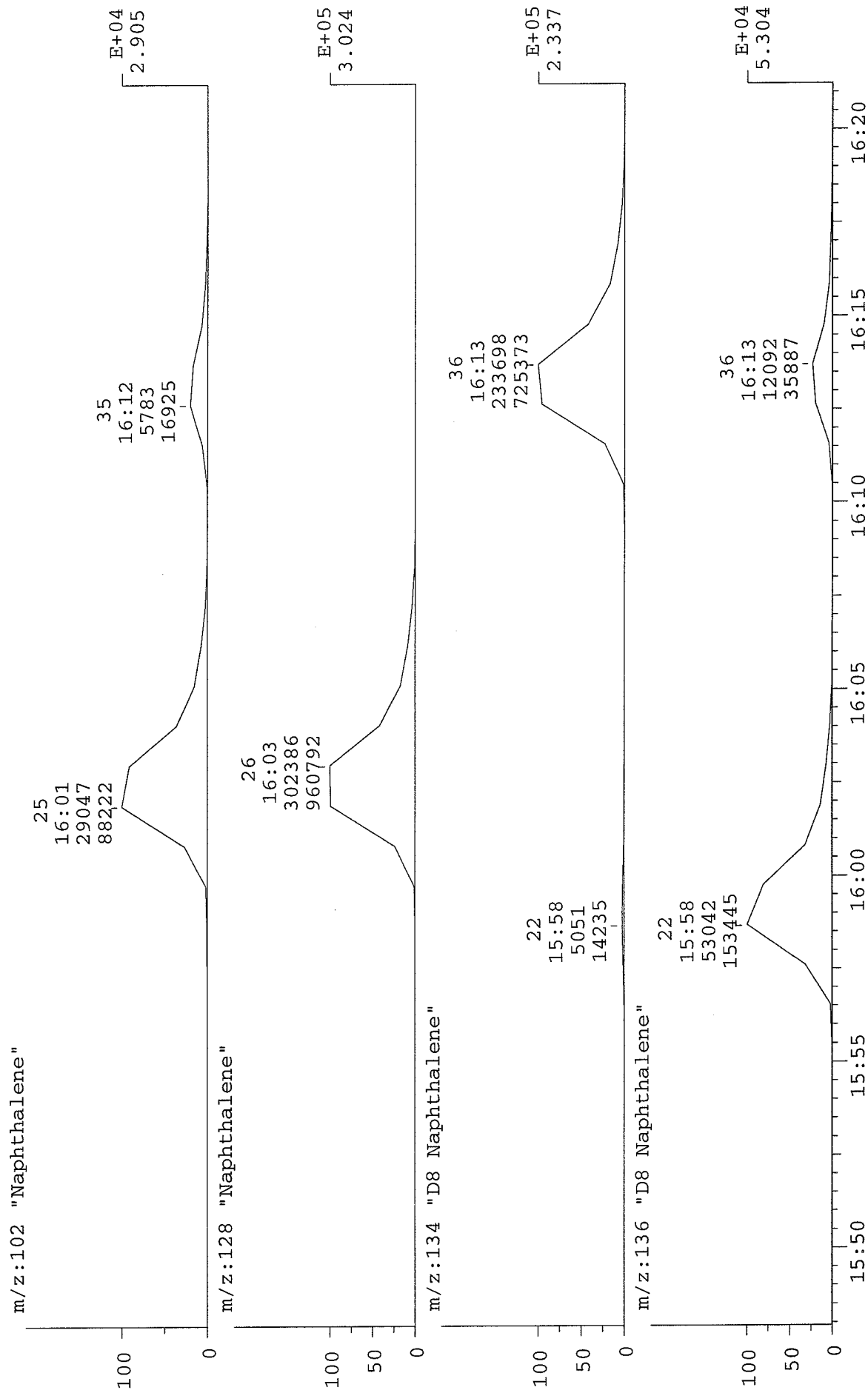
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



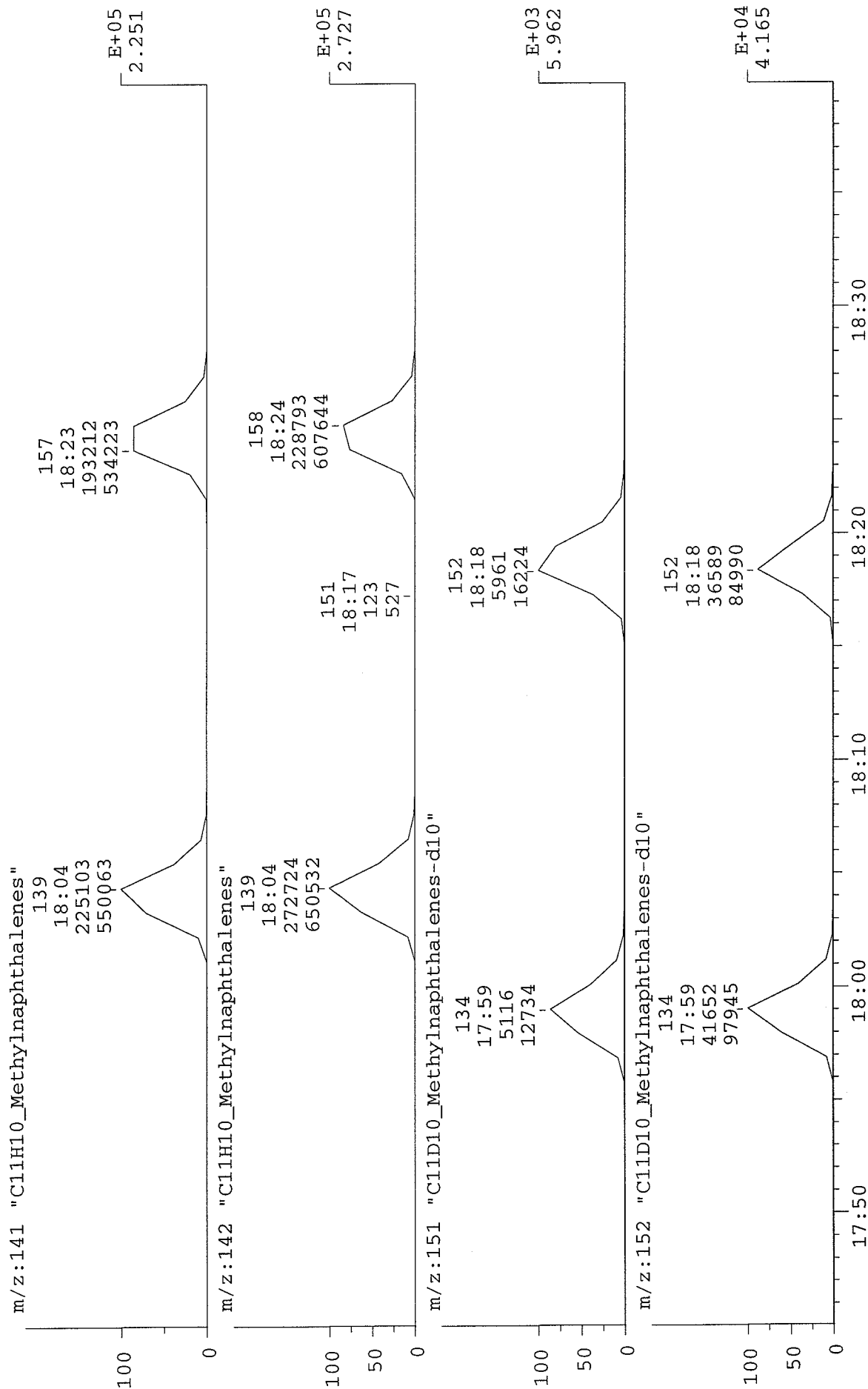
CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

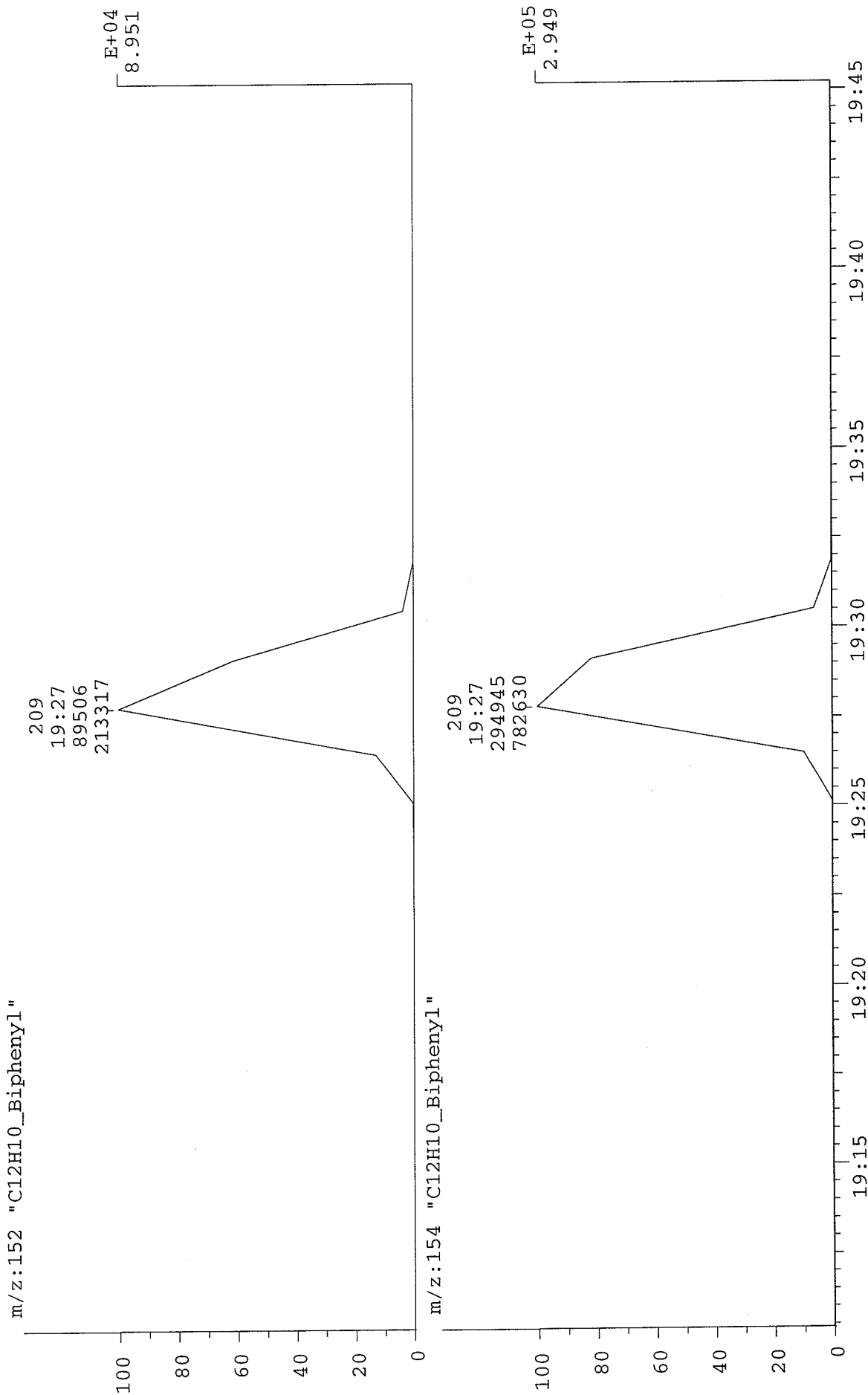
05-APR-06

Elapse: 40:57 1325
Start : 20:04:00 1384Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 196 > 222
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384

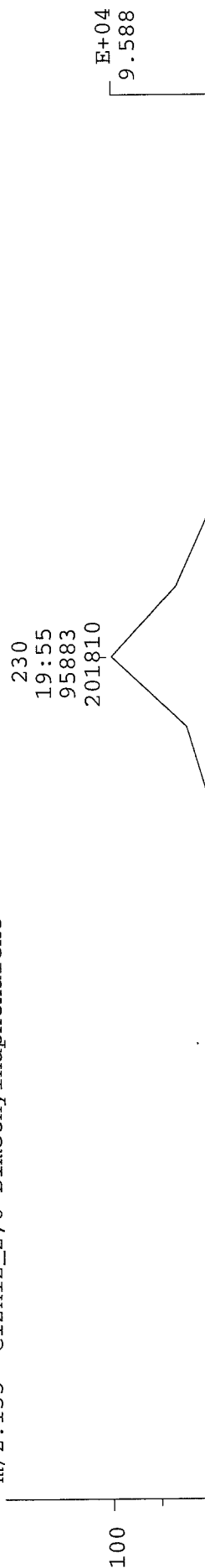
Study : 3377:01 Initial Cali
Inlet :
Masses : 0 > 308
Label : -2, 3.0



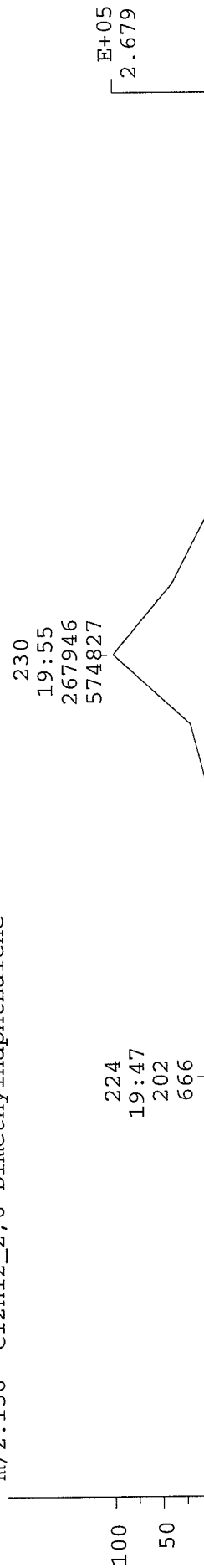
CHRO: Y060405i6
 Samp: WO=3377:01_6 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 218 > 238
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06 Elapse: 40:57 1325
 Start : 20:04:00 1384
 Study : 3377:01 Initial Cali
 Inlet :
 Masses : 0 > 308
 Label : -2, 3.0

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



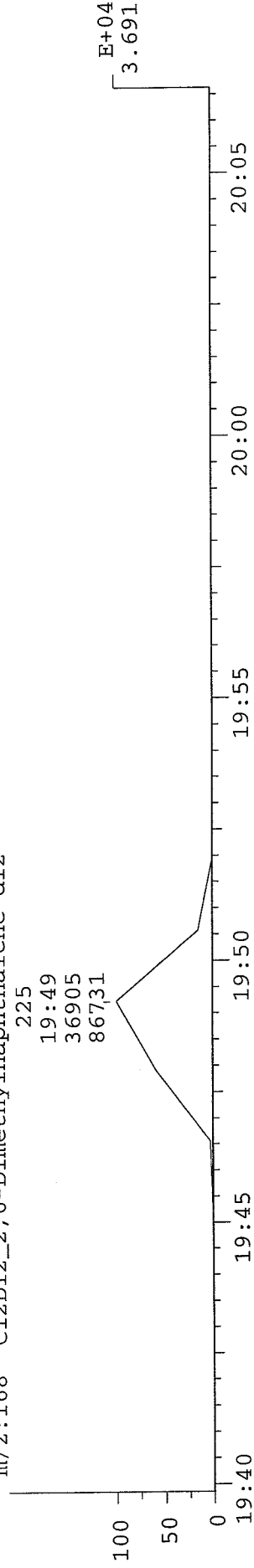
m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"



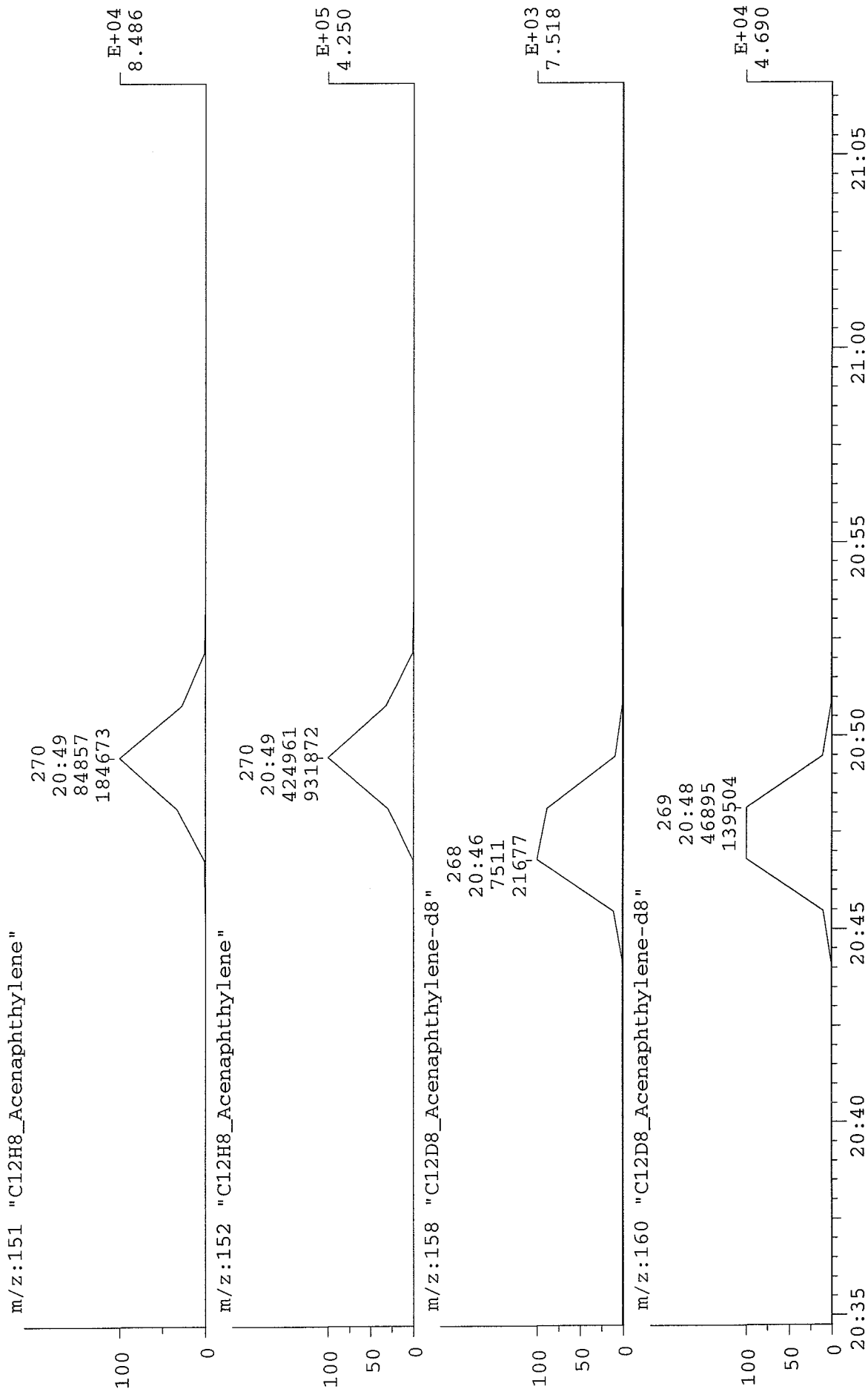
m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



CHRO: Y060405i6
 Samp: WO=3377:01_6 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 259 > 283
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06 Elapse: 40:57 1325
 Start : 20:04:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

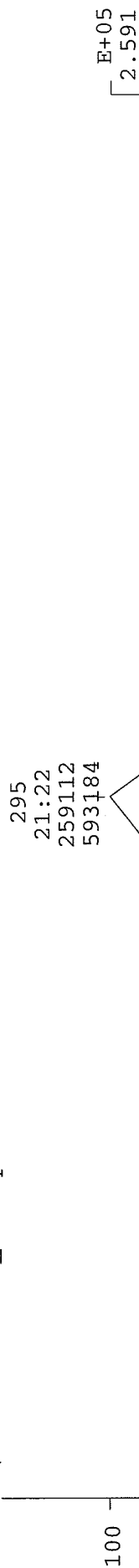


CHRO: Y060405i6
 Samp: WO=3377:01_6 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 283 > 307
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

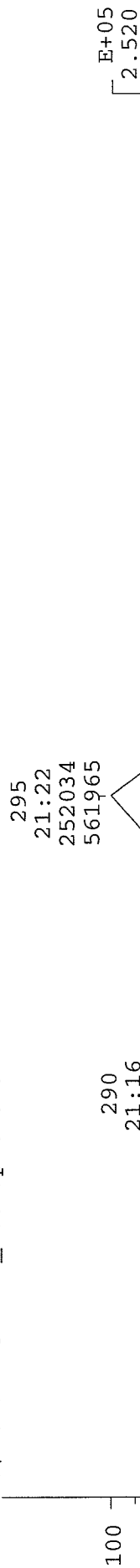
05-APR-06 Elapse: 40:57 1325
 Start : 20:04:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:153 "C12H10_Acenaphthene"



m/z:154 "C12H10_Acenaphthene"



m/z:163 "C12D10_Acenaphthene"



m/z:164 "C12D10_Acenaphthene"

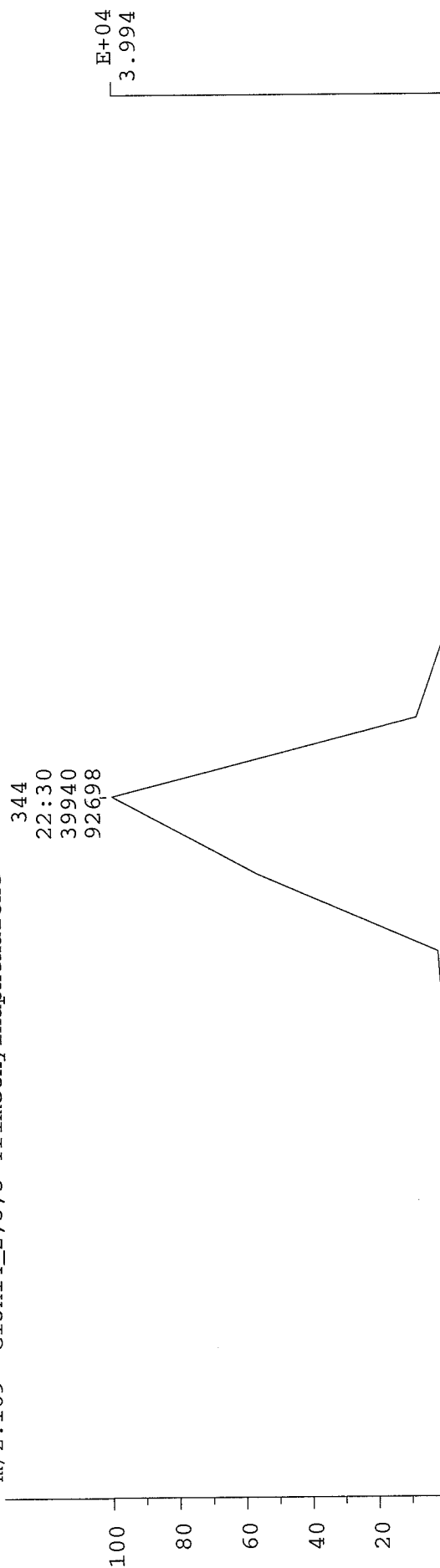


CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

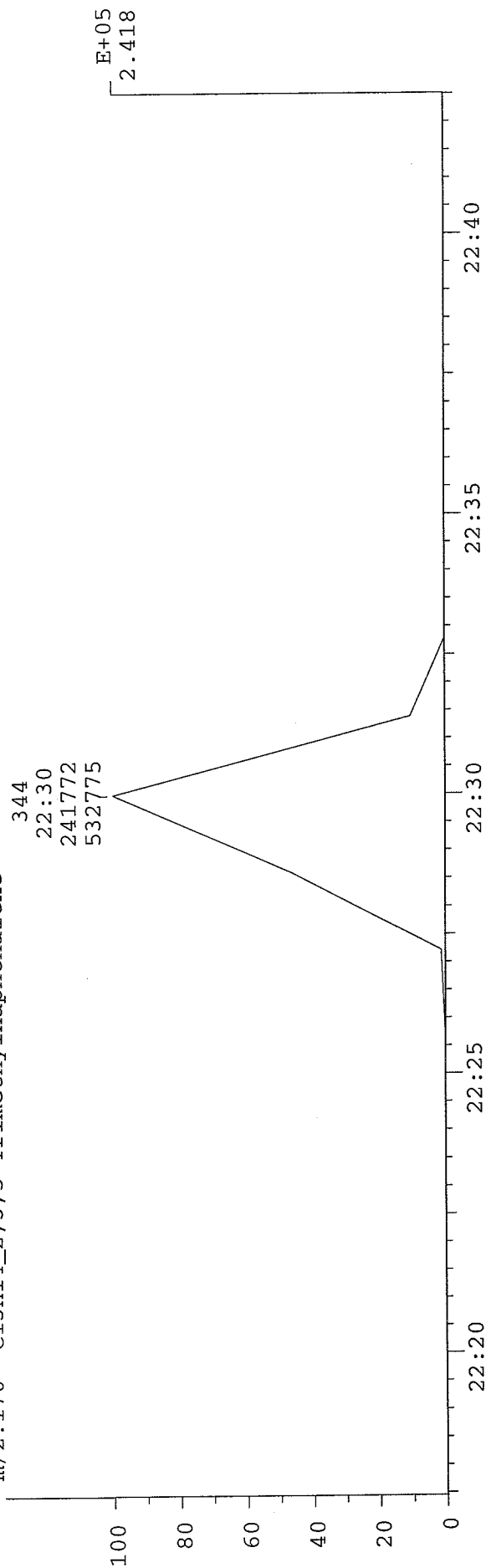
05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"



m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"

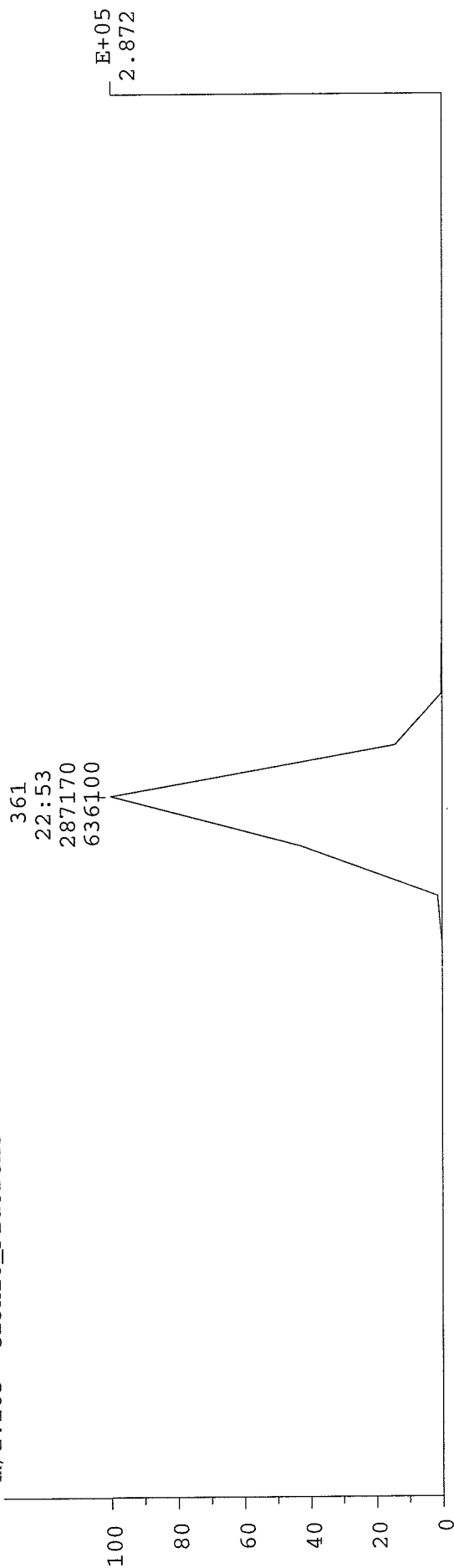


CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

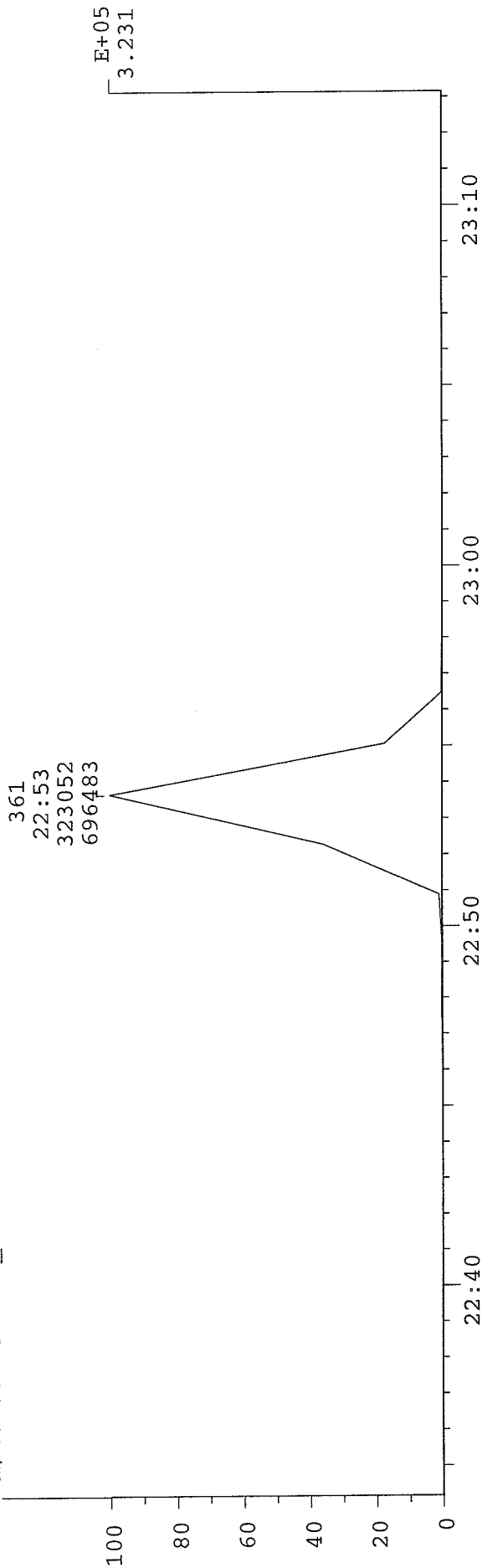
05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:165 "C13H10_Fluorene"



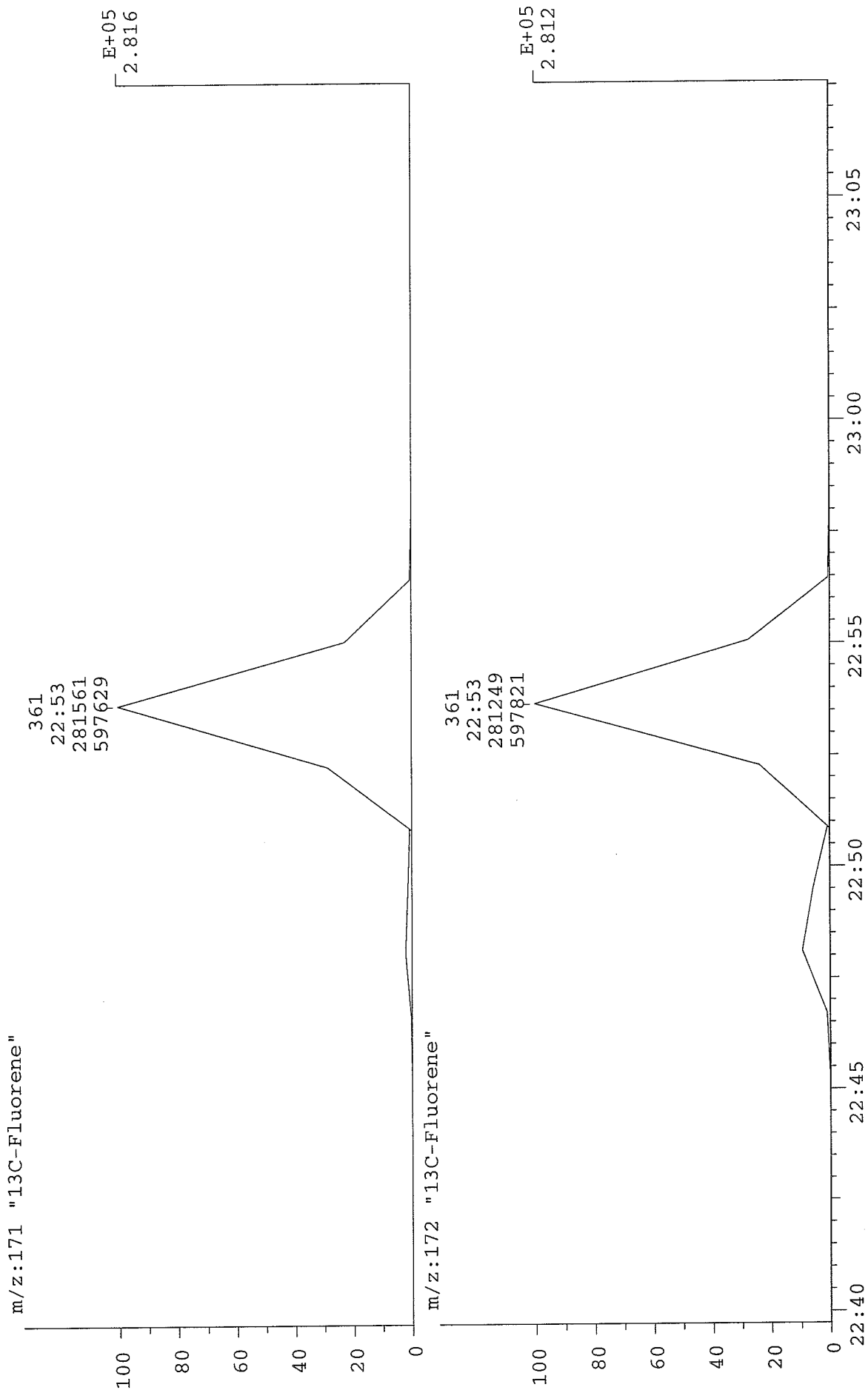
m/z:166 "C13H10_Fluorene"



CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 351 > 371
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

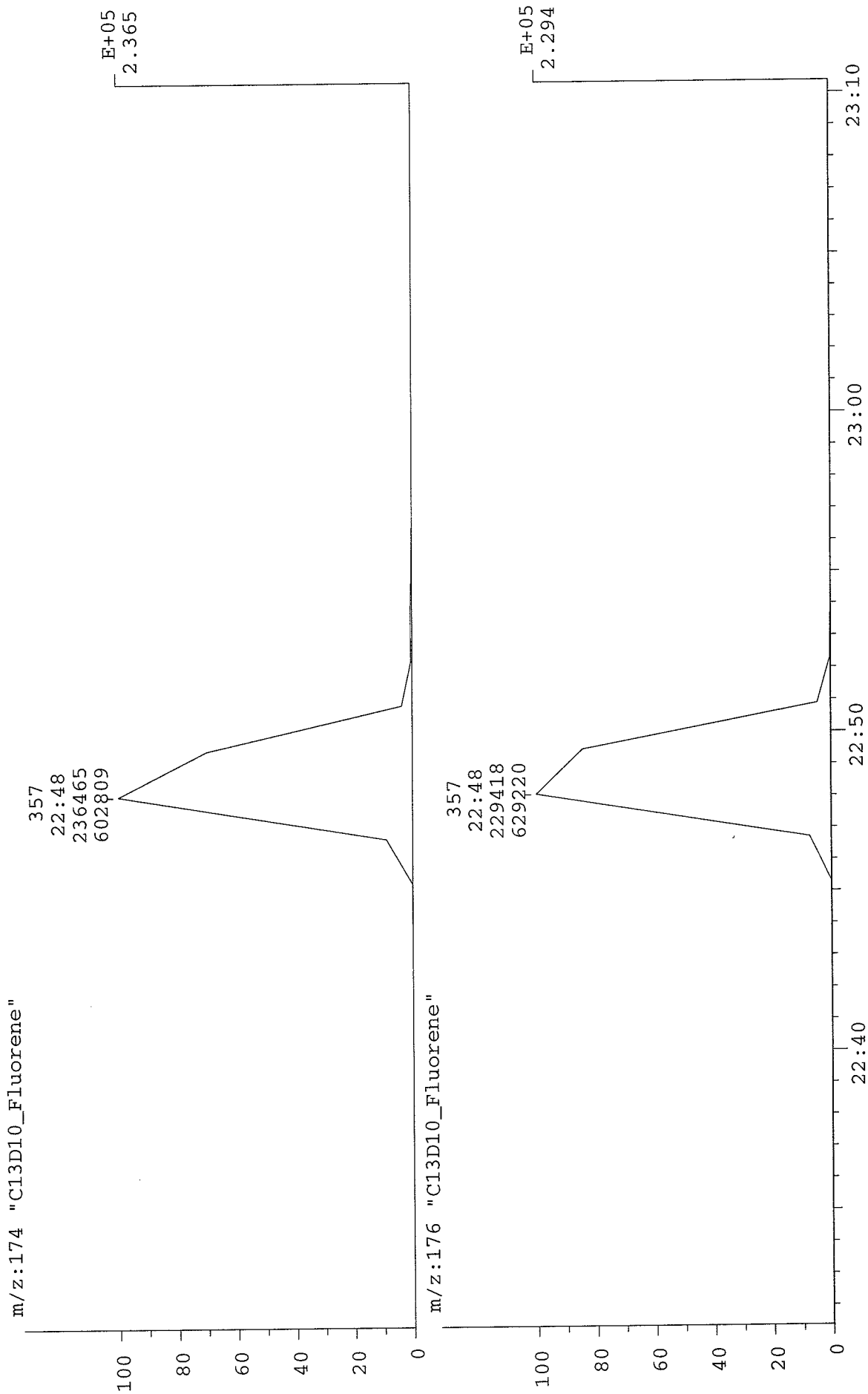
05-APR-06 Elapse: 22:49.5 358
Start : 20:04:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



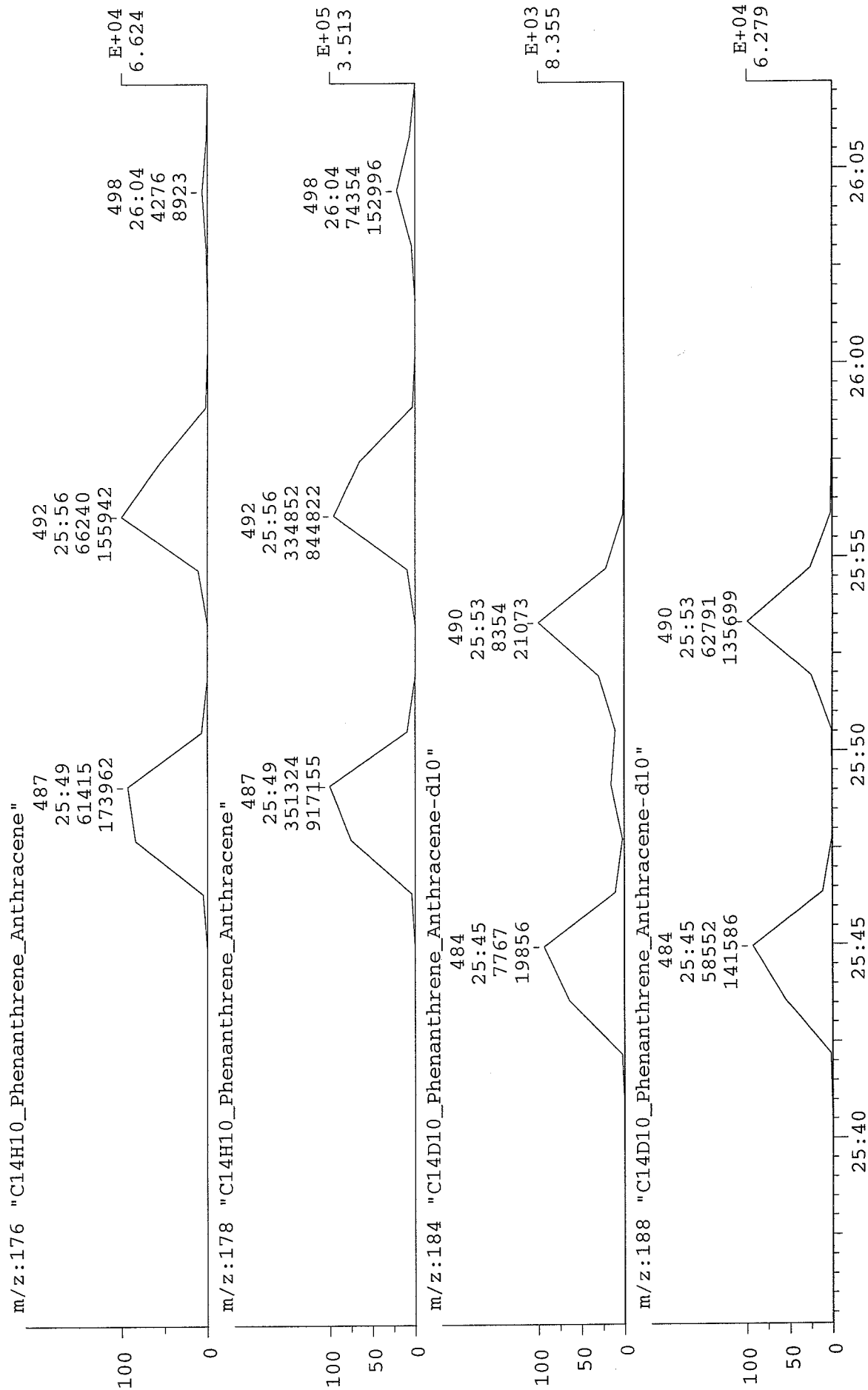
CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 345 > 373
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 22:49.5 358
Start : 20:04:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i6
Samp: W0=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

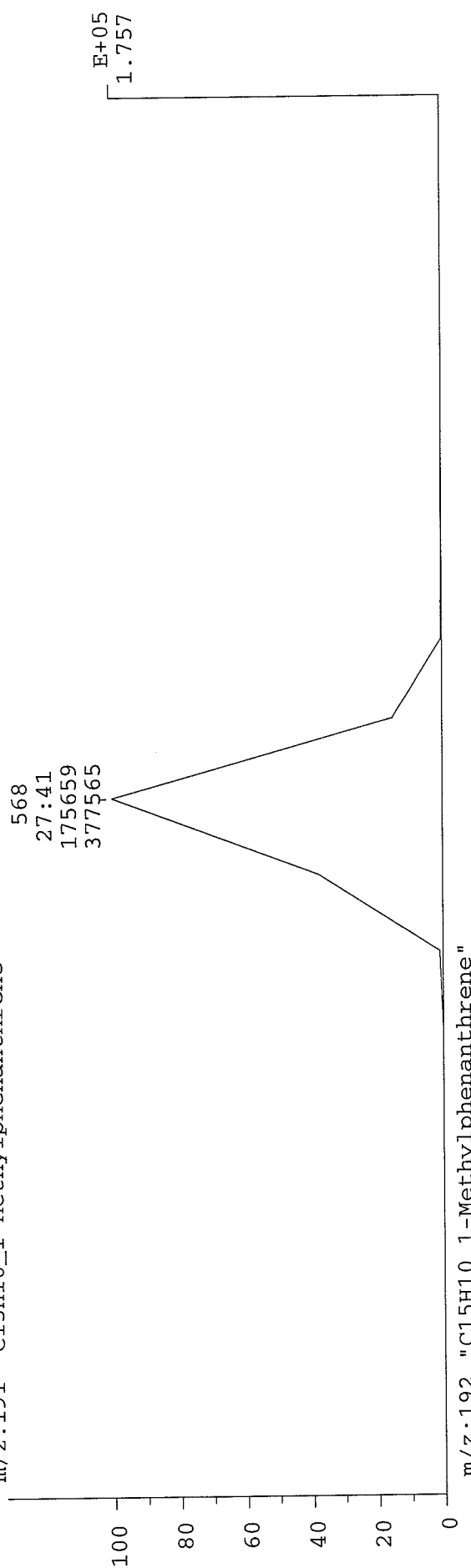


CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

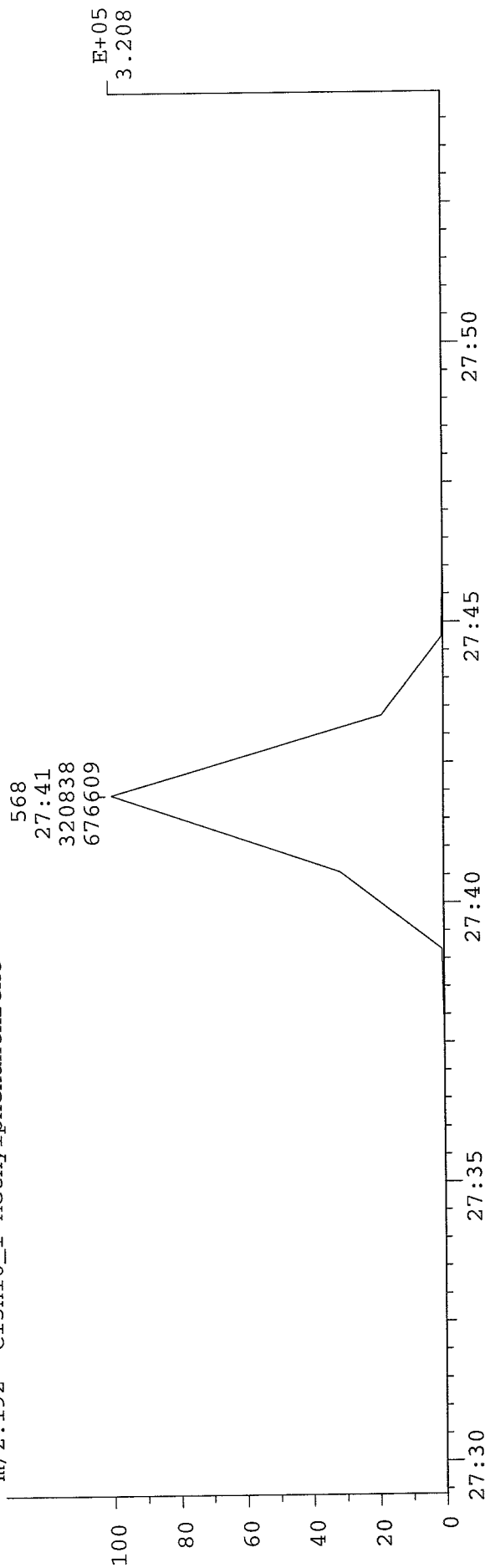
05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 648 > 725
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:200 "C16H10_Fluoranthene_Pyrene"



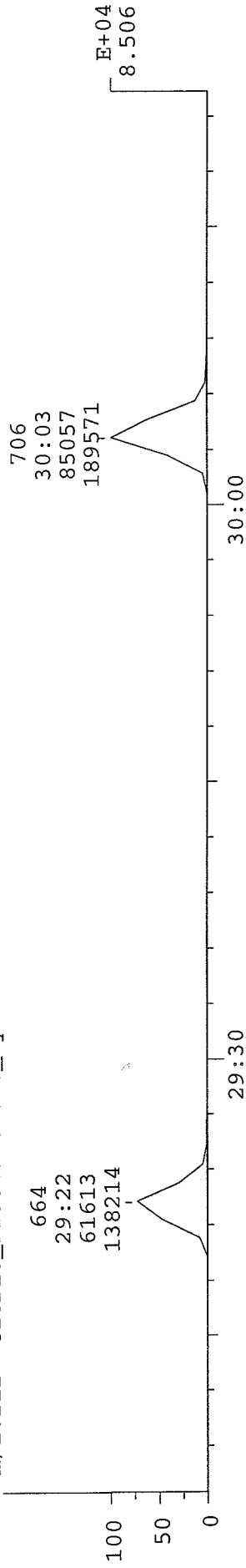
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 " " C16D10_Fluoranthene_Pyrene-d10



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



CHRO: Y060405i6
 Samp: WO=3377:01_6 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 916 > 945
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

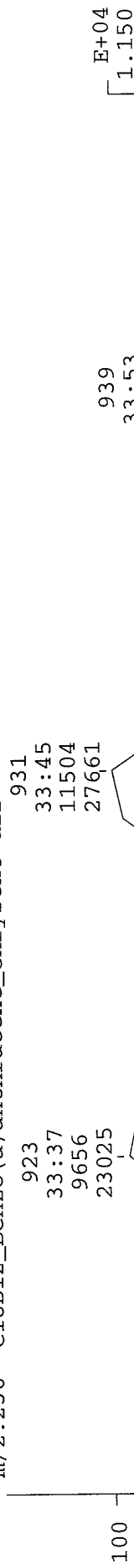
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



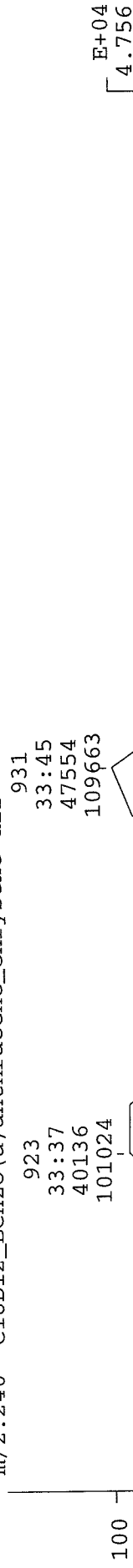
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"

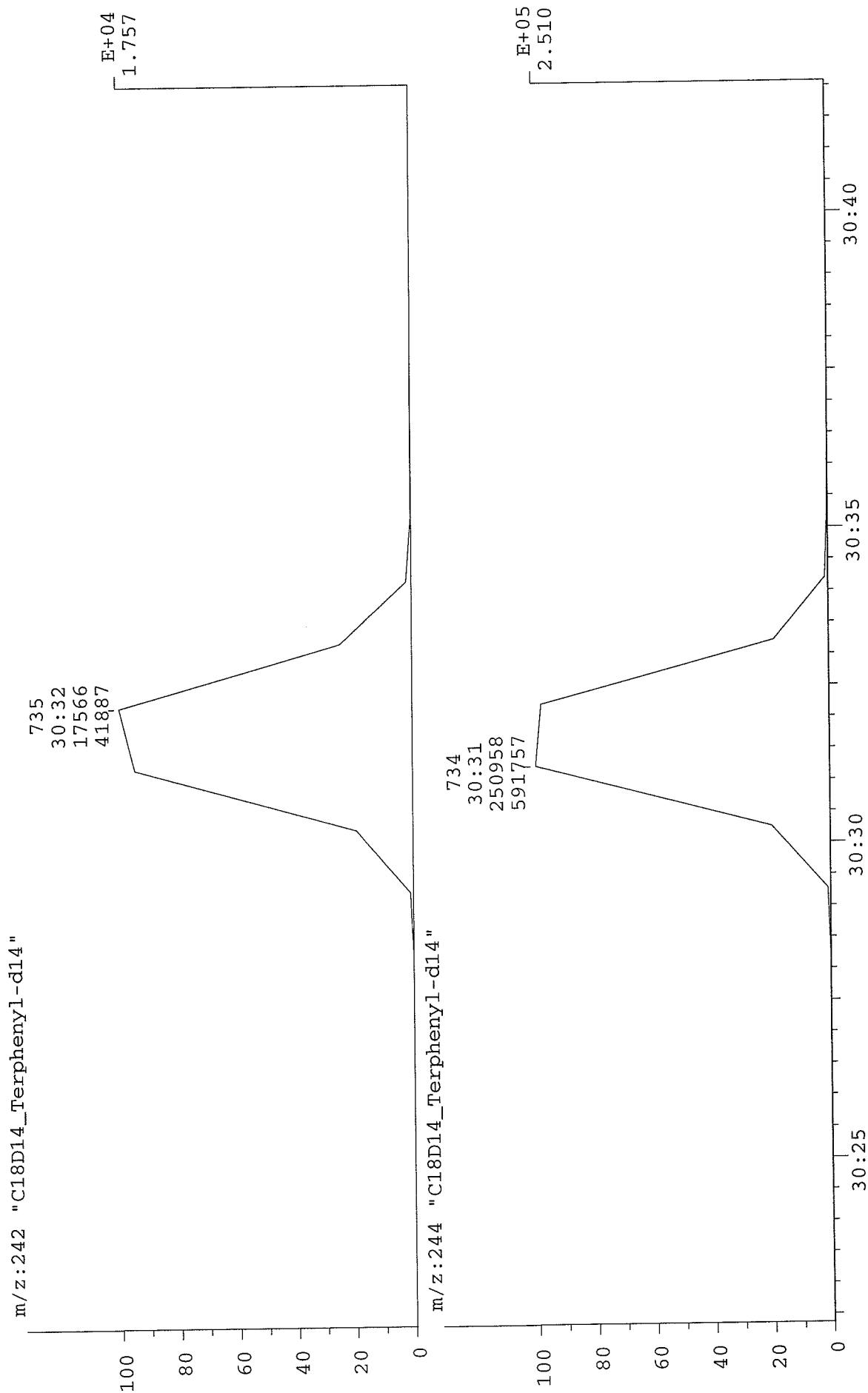


m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"



CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 725 > 745
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 22:49.5 358
Start : 20:04:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1095 > 1116
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 40:57 1325

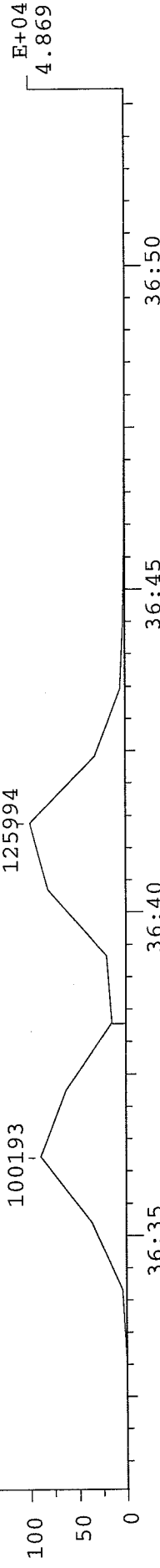
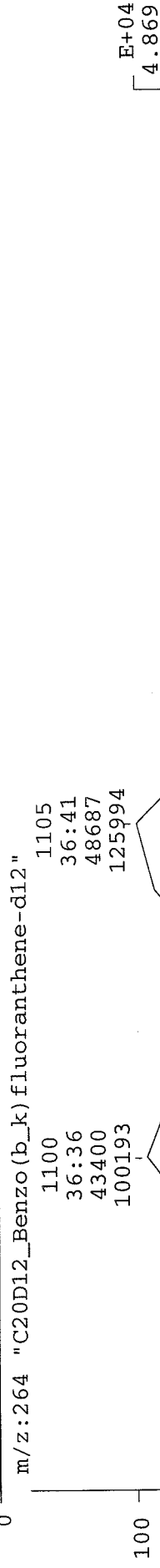
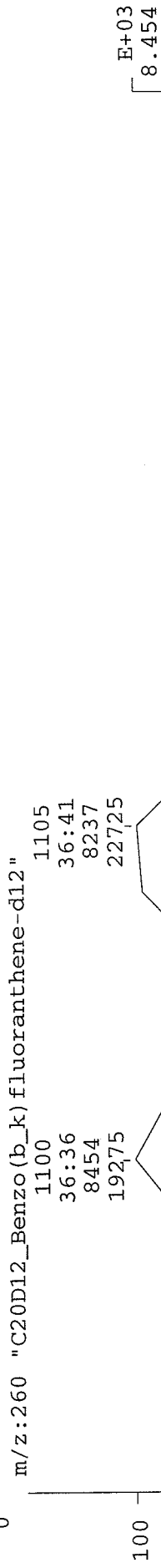
Start : 20:04:00 1384

Study : 3377:01 Initial Cali

Inlet :

Masses: 0 > 308

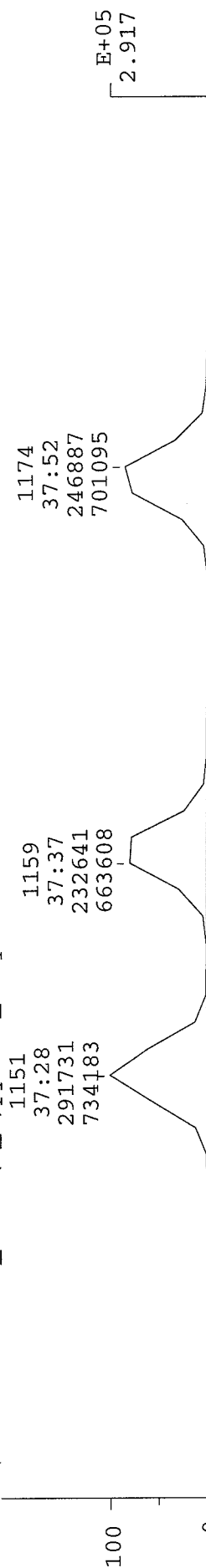
Label : -2, 3.0



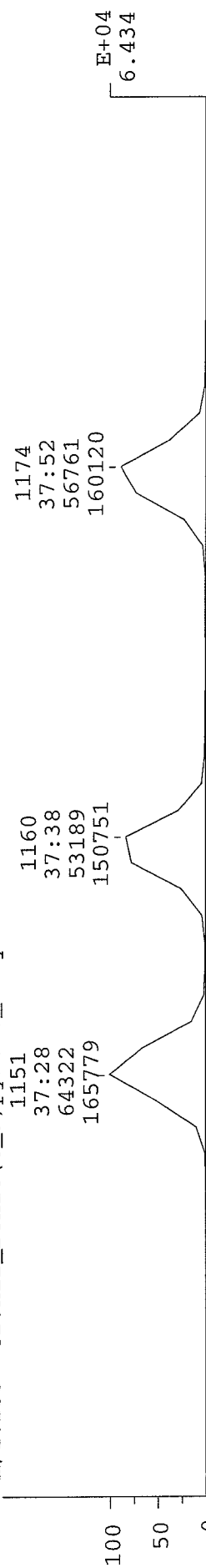
CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1135 > 1188
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

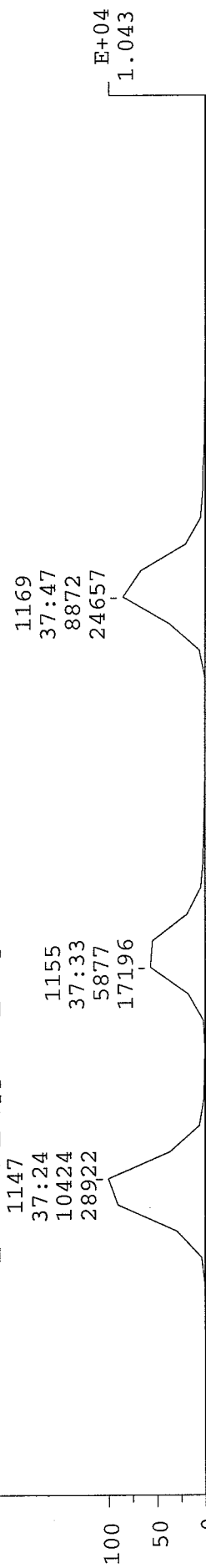
m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



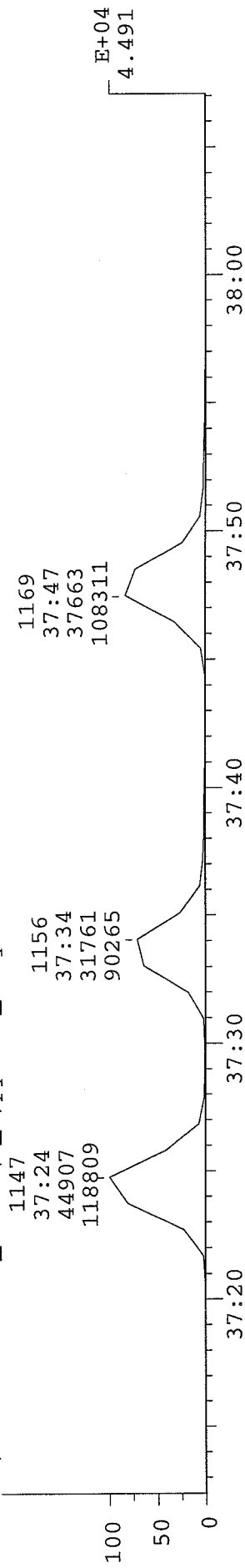
m/z:253 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"

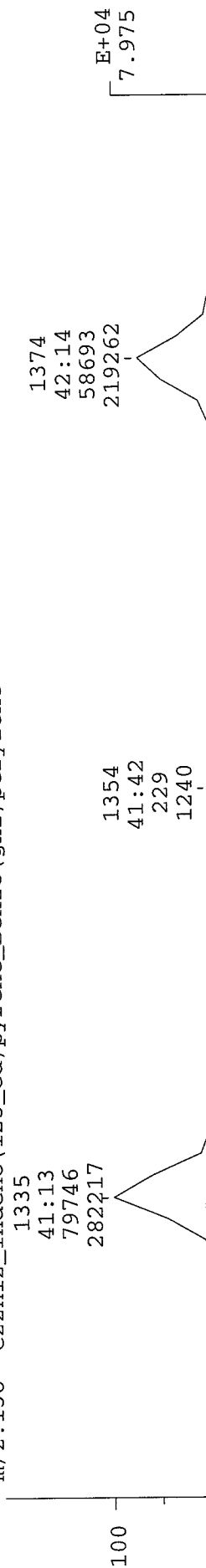


CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1321 > 1387
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

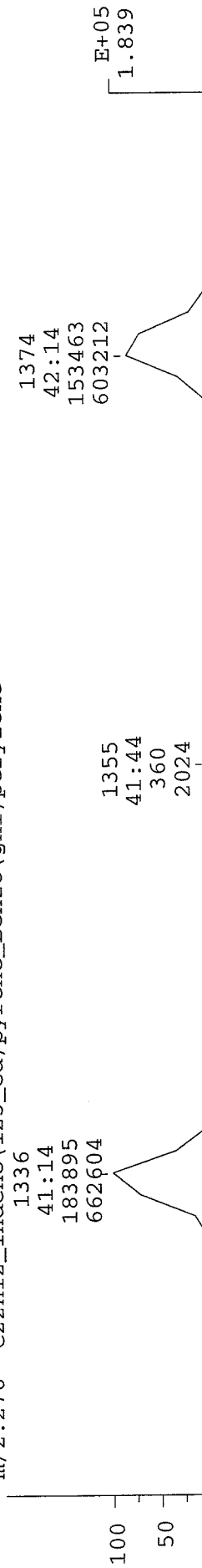
05-APR-06 Elapse: 40:57 1325
Start : 20:04:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

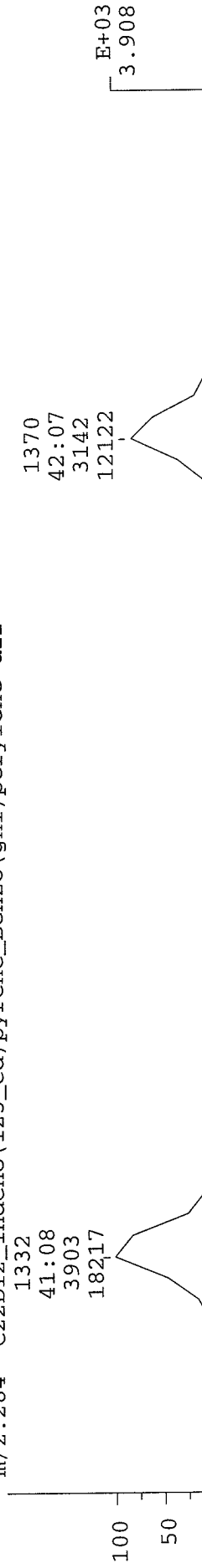
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



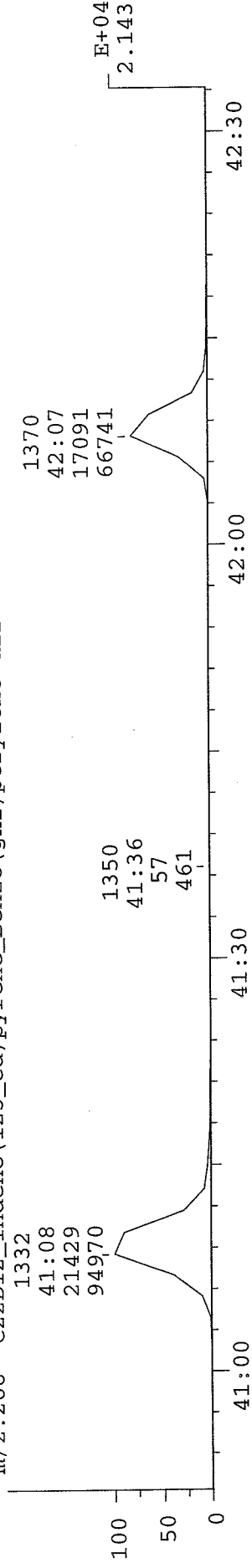
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



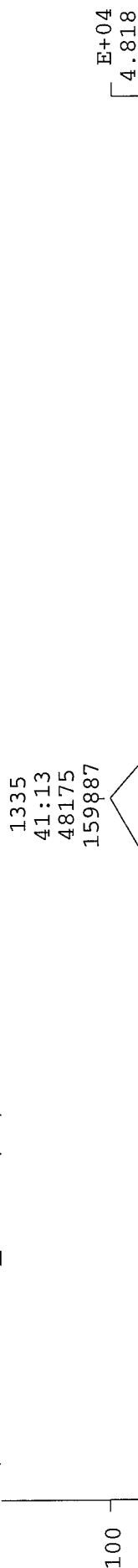
CHRO: Y060405i6
Samp: WO=3377:01_6 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06

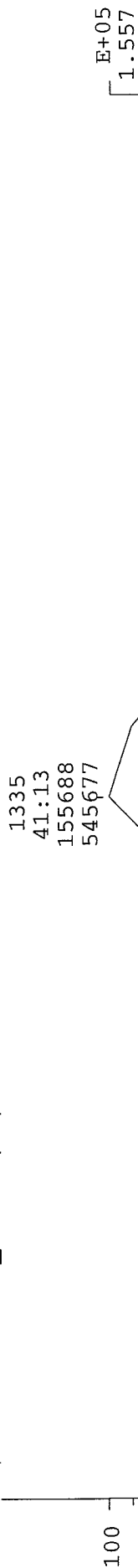
Elapse: 40:57 1325
Start : 20:04:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: Y60405I6.D
 Date Acquired: 5 Apr 2006 8:04 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060405I6
 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 Wed Apr 05 21:00:08 2006
 d:\cdffiles\Y60405I6.CDF Translated at Wed Apr 05 21:00:08 2006 Elapsed: 0 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 5 15:27:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60405i6.dat
 NetCDF File (input): /usr/users/hp/data/y60405i6.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 5 15:27:01 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



Workorder 3377:01_7	Prep Batch	Lot No
Data File /20060405I/y060405i7.d	Prep Date	SDG No
Analysis ID 89897	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 20:54	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAL
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:59	140055	56879	1.000	500.0	898.917871	179.78	898.917871	0.348
Naphthalene	16:03	1650191	668387	1.000	5000	5891.22488	117.82	5891.22488	0.374
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	5000			ND	0.000000
2-Methylnaphthalene	18:04	1116894	500745	1.000	5000	6269.40219	125.39	6269.40219	0.311
2-Methylnaphthalene-d10	17:59	89075	40198	1.000	500.0	571.711894	114.34	571.711894	0.209
1-Methylnaphthalene	18:24	1046324	454117	1.000	5000	6752.13278	135.04	6752.13278	0.373
1-Methylnaphthalene-d10	18:18	77481	33471	1.000	500.0	497.297887	99.46	497.297887	0.209
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	1342065	475287	1.000	5000	7533.34269	150.67	7533.34269	0.591
2,6-Dimethylnaphthalene	19:56	980872	440554	1.000	5000	6213.00531	124.26	6213.00531	1.43
2,6-Dimethylnaphthalene-d1	19:49	78937	34891	1.000	500.0	506.642962	101.33	506.642962	0.313
G2 Alkyl naphthalenes				1.000		6213.00531		6213.00531	0.879
Acenaphthylene	20:49	1596499	712568	1.000	5000	6341.35288	126.83	6341.35288	0.170
Acenaphthylene-d8	20:48	125880	44161	1.000	500.0	807.938179	161.59	807.938179	0.278
Acenaphthene-d10	21:17	77902	35956	1.000	500.0	500.000000	100.00	500.000000	0.243
Acenaphthene	21:23	960669	435379	1.000	5000	3815.81268	76.32	3815.81268	0.538
2,3,5-Trimethylnaphthalene	22:30	914528	427557	1.000	5000	5792.77145	115.86	5792.77145	0.394
G3 Alkyl naphthalenes				1.000		5792.77145		5792.77145	0.242
Fluorene d-10	22:49	1101810	382371	1.000	5000	4330.50348	86.61	4330.50348	0.141
Fluorene-C13	22:53	1037800	445329	1.000	5000	4078.92151	81.58	4078.92151	0.187
Fluorene	22:53	1175259	544803	1.000	5000	4619.18406	92.38	4619.18406	0.234
Phenanthrene-d10	25:45	127215	53364	1.000	500.0	381.120578	76.22	381.120578	0.157
Phenanthrene	25:49	1546065	644166	1.000	5000	6076.58295	121.53	6076.58295	0.258
Anthracene-d10	25:53	111168	51415	1.000	500.0	333.045729	66.61	333.045729	0.157
Anthracene	25:56	1445622	508123	1.000	5000	5681.80639	113.64	5681.80639	0.258
1-Methylphenanthrene	27:42	1160836	545771	1.000	5000	4562.49656	91.25	4562.49656	0.328
Fluoranthene-d10	29:22	124236	54519	1.000	500.0	372.195858	74.44	372.195858	0.139
Fluoranthene	29:25	1688191	732952	1.000	5000	6794.29070	135.89	6794.29070	0.344
Pyrene-d10	30:03	166896	71756	1.000	500.0	500.000000	100.00	500.000000	0.139
Pyrene	30:06	1715554	682795	1.000	5000	6904.41579	138.09	6904.41579	0.344
Terphenyl-d14	30:32	1038307	476955	1.000	5000	4178.76863	83.58	4178.76863	0.138
Benzo(a) Anthracene-d12	33:38	92602	38608	1.000	500.0	277.424264	55.48	277.424264	0.174
Benzo(a) anthracene	33:42	1407794	592617	1.000	5000	7601.31531	152.03	7601.31531	0.648
Chrysene-d12	33:45	99448	46232	1.000	500.0	297.934043	59.59	297.934043	0.174
Chrysene	33:49	1359868	605423	1.000	5000	6837.08069	136.74	6837.08069	0.541
Benzo(b) Fluoranthene-d12	36:36	96563	37729	1.000	500.0	456.290815	91.26	456.290815	0.482
Benzo(k) Fluoranthene-d12	36:41	111691	49291	1.000	500.0	527.775415	105.56	527.775415	0.482
Benzo(b) fluoranthene	36:40	1334131	548667	1.000	5000	6908.08591	138.16	6908.08591	0.961
Benzo(k) fluoranthene	36:44	1369799	575909	1.000	5000	6132.09211	122.64	6132.09211	0.735
Benzo(e) pyrene-d12	37:24	105813	41477	1.000	500.0	500.000000	100.00	500.000000	0.482
Benzo(e) pyrene	37:28	1285122	461313	1.000	5000	7691.93292	153.84	7691.93292	1.15
Benzo(a) Pyrene-d12	37:34	83537	31515	1.000	500.0	394.738832	78.95	394.738832	0.482
Benzo(a) pyrene	37:38	1193113	454396	1.000	5000	7141.22485	142.82	7141.22485	1.15
Perylene-d12	37:48	98837	32975	1.000	500.0	467.036186	93.41	467.036186	0.482
Perylene	37:52	1241935	472044	1.000	5000	6282.74330	125.65	6282.74330	1.10
3-Methylcholanthrene				1.000	5000			ND	1.29



STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List

Workorder 3377:01_7	Prep Batch	Lot No
Data File /20060405I/y060405i7.d	Prep Date	SDG No
Analysis ID 89897	Prep Exp Date	Date Received
Analysis Date 4/5/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 20:54	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	41:07	45734	12677	1.000	500.0	216.107662	43.22	216.107662	0.241
Indeno(1,2,3-cd)pyrene-d12	41:10	88217	19238	1.000	500.0	416.853317	83.37	416.853317	0.301
Indeno(1,2,3-cd)pyrene	41:14	1206406	326537	1.000	5000	6837.71835	136.75	6837.71835	1.30
Dibenz (a,h)anthracene	41:14	993835	286484	1.000	5000	10865.3846	217.31	10865.3846	2.17
Benzo(ghi)Perylene-d12	42:07	62087	14312	1.000	500.0	293.380776	58.68	293.380776	0.301
Benzo(ghi)perylene	42:15	1081416	286970	1.000	5000	8708.87625	174.18	8708.87625	1.75
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	5000			ND	0.000000

PAH's by LRMS Extended List

Workorder 3377:01_7	Prep Batch	Lot No
Data File /20060405I/y060405i7.d	Prep Date	SDG No
Analysis ID 89897	Prep Exp Date	Date Received
Analysis Date 04/05/06 20:54	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution Factor 1.00	Code YA1

View Small Peaks? False

View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
128					128.0000		128.0000				
	Noise	00:00	00:00	0	43		17				
	Naphthalene	16:03	00:00	0	1650191		668387			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	25		10				
	Naphthalene-d8	15:59	00:00	0	140055		56879			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	25		10				
	2-Methylnaphthalene	18:04	00:00	0	1116894		500745			ABV	
	1-Methylnaphthalene	18:24	00:00	0	1046324		454117			AVB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	15		6				
	2-Methylnaphthalene-d10	17:59	00:00	0	89075		40198			ABB	
	1-Methylnaphthalene-d10	18:18	00:00	0	77481		33471			AVB	
	Acenaphthylene	20:49	00:00	0	1596499		712568			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	48		19				
	Biphenyl	19:27	00:00	0	1342065		475287			ABB	
	Acenaphthene	21:23	00:00	0	960669		435379			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	100		40				
	2,6-Dimethylnaphthalene	19:56	00:00	0	980872		440554			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	20		8				
	Acenaphthylene-d8	20:48	00:00	0	125880		44161			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	18		7				
	Acenaphthene-d10	21:17	00:00	0	77902		35956			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	25		10				
	Fluorene	22:53	00:00	0	1175259		544803			AVB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	23		9				
	2,6-Dimethylnaphthalene	19:49	00:00	0	78937		34891			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	28		11				
	2,3,5-Trimethylnaphthal	22:30	00:00	0	914528		427557			ABB	M
172					172.0000		172.0000				
	Noise	00:00	00:00	0	20		8				

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

PAH's by LRMS Extended List

Workorder 3377:01_7	Prep Batch	Lot No
Data File /20060405I/y060405i7.d	Prep Date	SDG No
Analysis ID 89897	Prep Exp Date	Date Received
Analysis Date 04/05/06 20:54	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	22:53	00:00	0	1037800	✓	445329			ABV	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	15		6				
	Fluorene d-10	22:49	00:00	0	1101810	✓	382371			ABV	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	28		11				
	Phenanthrene	25:49	00:00	0	1546065		644166			ABV	M
	Anthracene	25:56	00:00	0	1445622		508123			AVV	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	23		9				
	Phenanthrene-d10	25:45	00:00	0	127215		53364			ABV	M
	Anthracene-d10	25:53	00:00	0	111168		51415			AVB	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	35		14				
	1-Methylphenanthrene	27:42	00:00	0	1160836		545771			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	38		15				
	Fluoranthene	29:25	00:00	0	1688191		732952			ABV	M
	Pyrene	30:06	00:00	0	1715554		682795			ABV	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene-d10	29:22	00:00	0	124236		54519			ABV	
	Pyrene-d10	30:03	00:00	0	166896		71756			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	50		20				
	Benzo(a)anthracene	33:42	00:00	0	1407794		592617			ABV	M
	Chrysene	33:49	00:00	0	1359868		605423			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	25		10				
	Benzo(a)Anthracene-d12	33:38	00:00	0	92602		38608			ABV	
	Chrysene-d12	33:45	00:00	0	99448		46232			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	15		6				
	Terphenyl-d14	30:32	00:00	0	1038307	✓	476955			ABV	M
252					252.0000		252.0000				
	Noise	00:00	00:00	0	73		29				
	Benzo(b)fluoranthene	36:40	00:00	0	1334131		548667			ABV	M
	Benzo(k)fluoranthene	36:44	00:00	0	1369799		575909			AVB	M
	Benzo(e)pyrene	37:28	00:00	0	1285122		461313			ABV	M
	Benzo(a)pyrene	37:38	00:00	0	1193113		454396			AVV	M
	Perylene	37:52	00:00	0	1241935		472044			AVB	M
264					264.0000		264.0000				

Notes:

R = ratio is outside limits M = data changed manually
 T = peaks outside comax limit D = peak outside RT window

N = Peak not reported
 W = peak outside first/last

S = peak less than 2.5x S/N
 X = peak has dup match

PAH's by LRMS Extended List

Workorder 3377:01_7	Prep Batch	Lot No
Data File /20060405I/y060405i7.d	Prep Date	SDG No
Analysis ID 89897	Prep Exp Date	Date Received
Analysis Date 04/05/06 20:54	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	40		16				
	Benzo(b) Fluoranthene-d1	36:36	00:00	0	96563		37729		ABV		M
	Benzo(k) Fluoranthene-d1	36:41	00:00	0	111691		49291		ABV		M
	Benzo(e) pyrene-d12	37:24	00:00	0	105813		41477		ABV		M
	Benzo(a) Pyrene-d12	37:34	00:00	0	83537		31515		AVV		M
	Perylene-d12	37:48	00:00	0	98837		32975		AVV		M
268					268.0000		268.0000				
	Noise	00:00	00:00	0	85		34				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	50		20				
	Indeno(1,2,3-cd) pyrene	41:14	00:00	0	1206406		326537		ABV		
	Benzo(ghi) perylene	42:15	00:00	0	1081416		286970		ABB		M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	55		22				
	Dibenz(a,h) anthracene	41:14	00:00	0	993835		286484		ABB		
288					288.0000		288.0000				
	Noise	00:00	00:00	0	25		10				
	Indeno(1,2,3-cd) pyrene-	41:10	00:00	0	88217		19238		ABV		
	Benzo(ghi) Perylene-d12	42:07	00:00	0	62087		14312		ABB		
292					292.0000		292.0000				
	Noise	00:00	00:00	0	20		8				
	Dibenz(ah) Anthracene-d1	41:07	00:00	0	45734		12677		ABB		
302					302.0000		302.0000				
	Noise	00:00	00:00	0	13		5				
308					308.0000		308.0000				
	Noise	00:00	00:00	0	8		3				

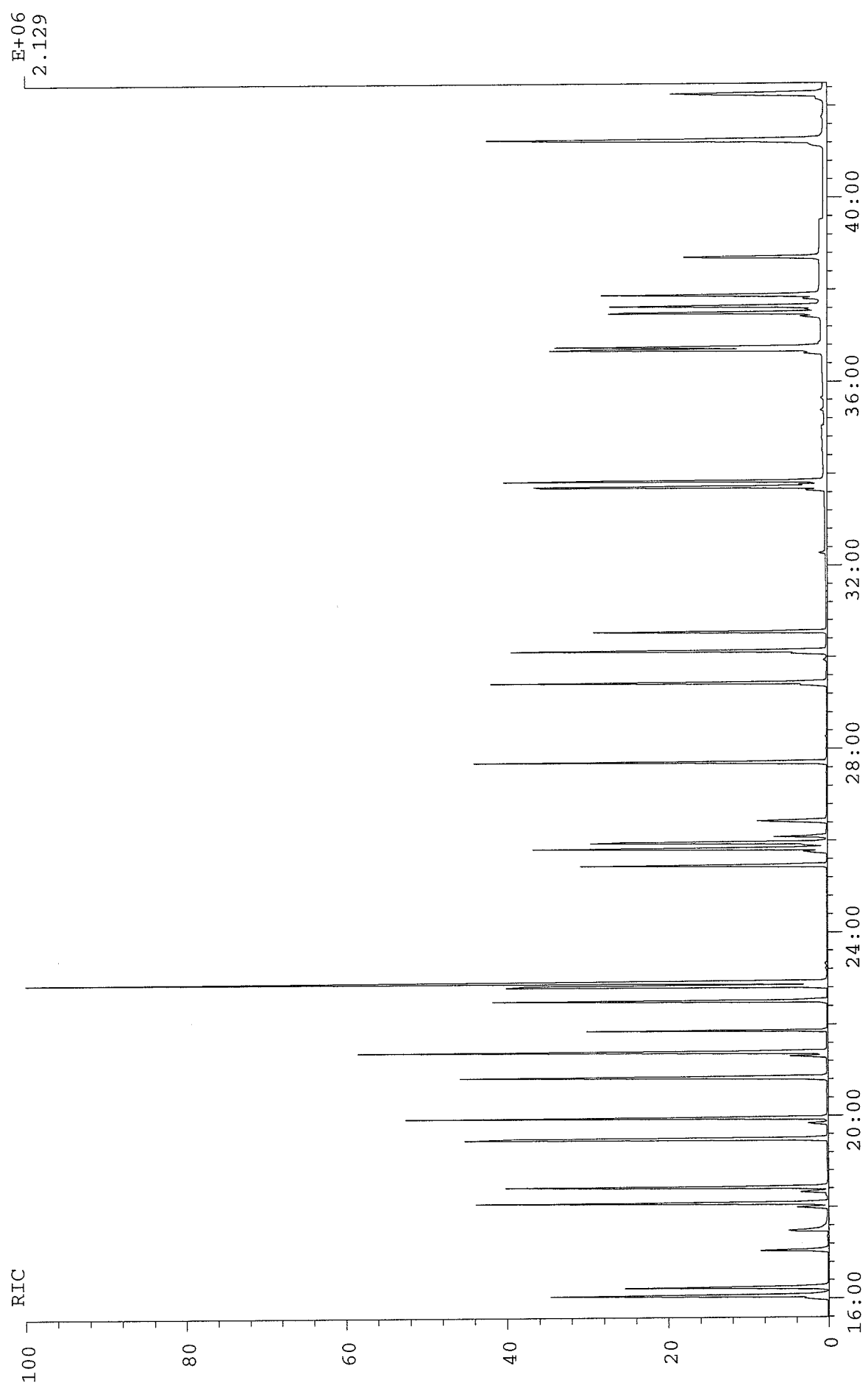
Notes:

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

Inv+Cal: 4/10/06
QC UMIC 4/10/06

CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1731 > 1739
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06
Elapse: 40:04 1291
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : 0, 3.0

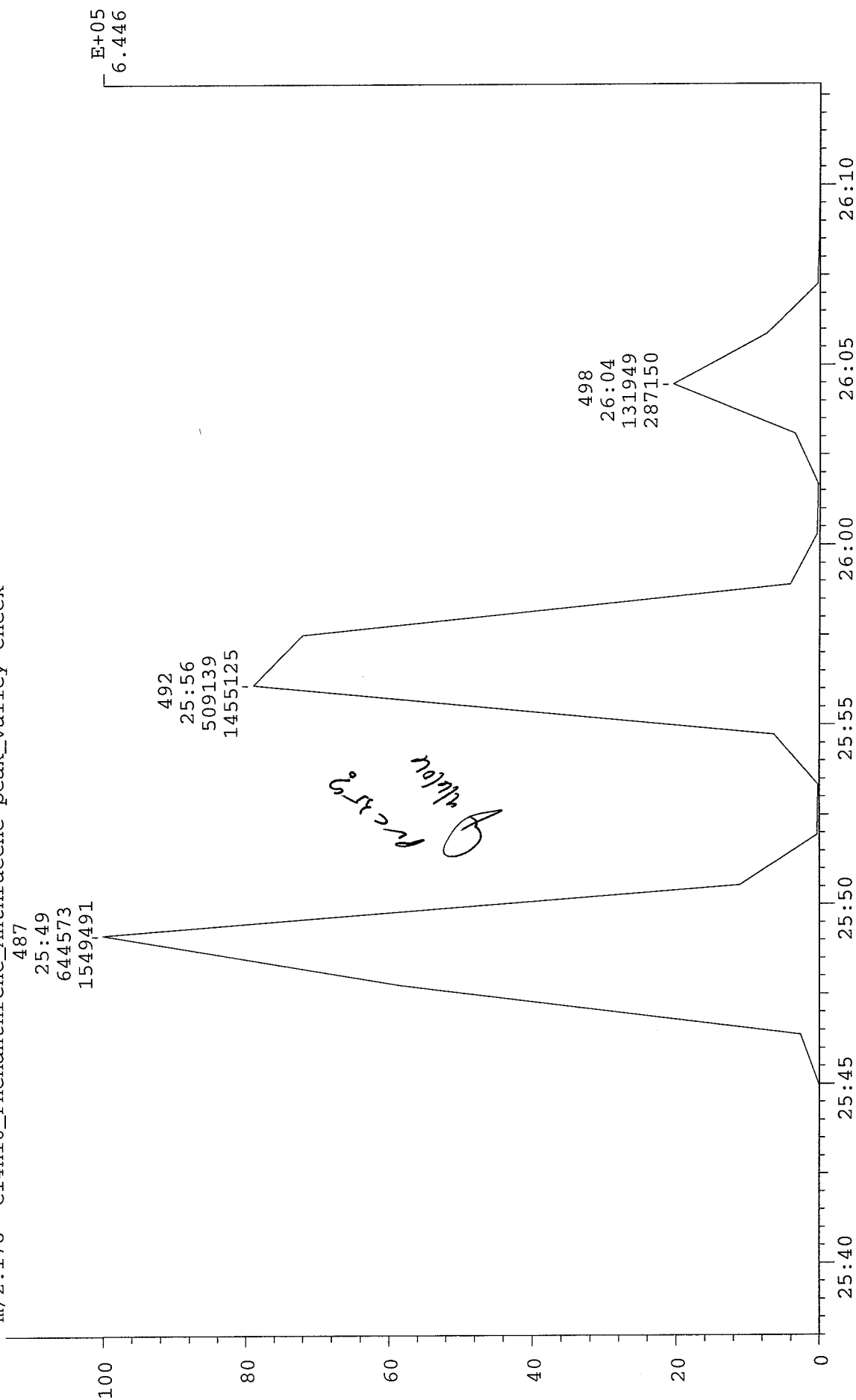


CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

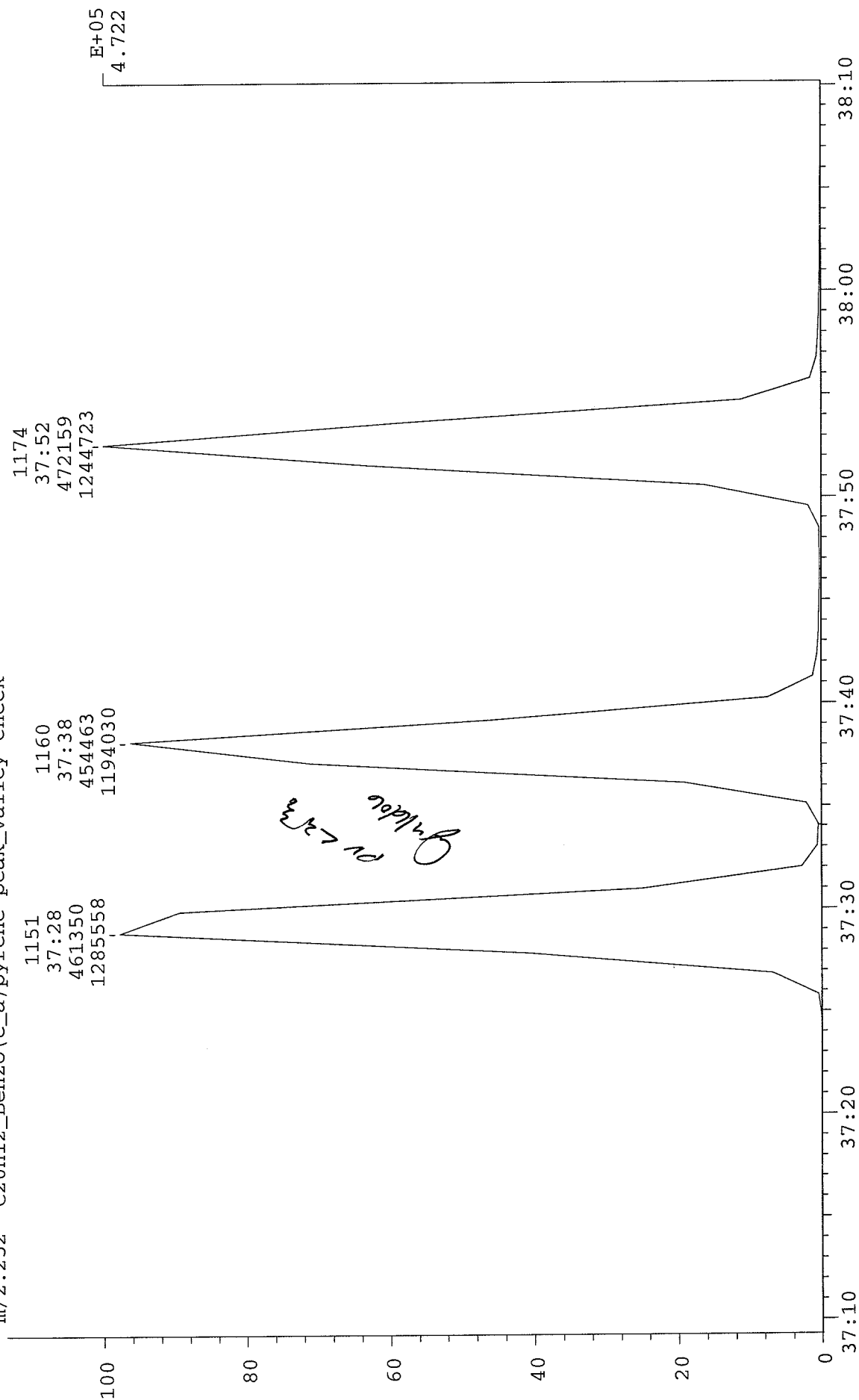
m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"



CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

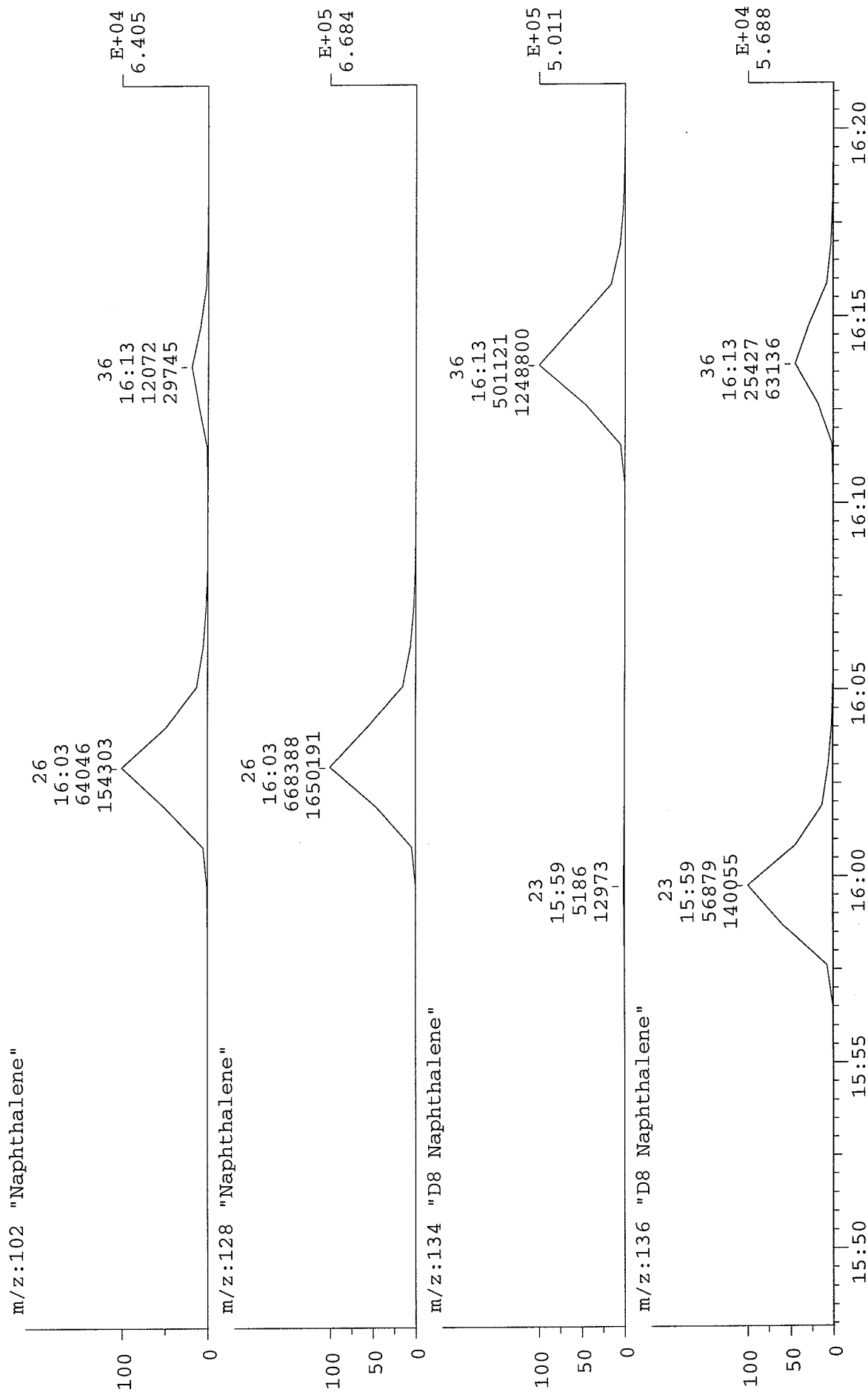
05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



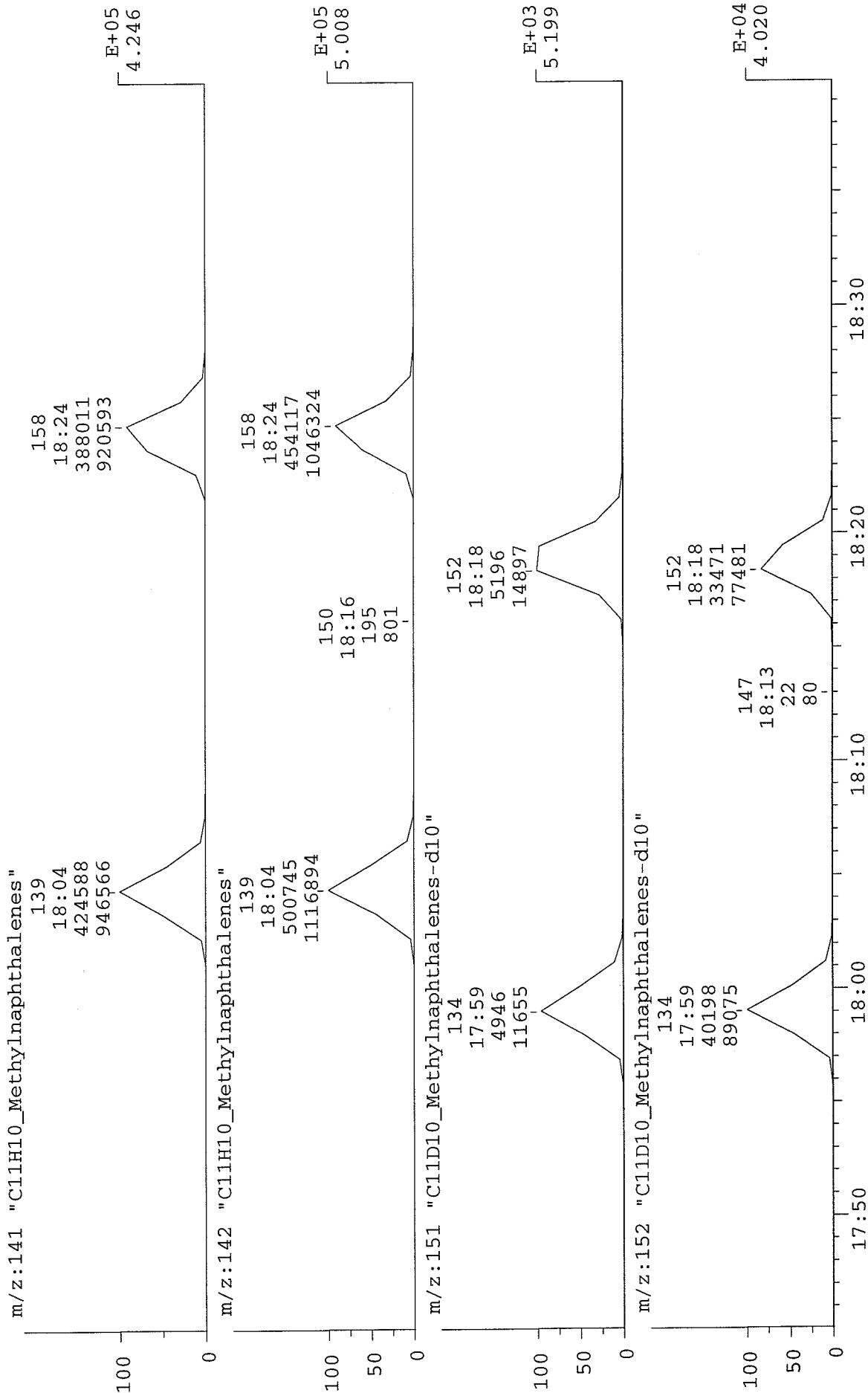
CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 41:00 1327
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06
Elapse: 41:00 1327
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

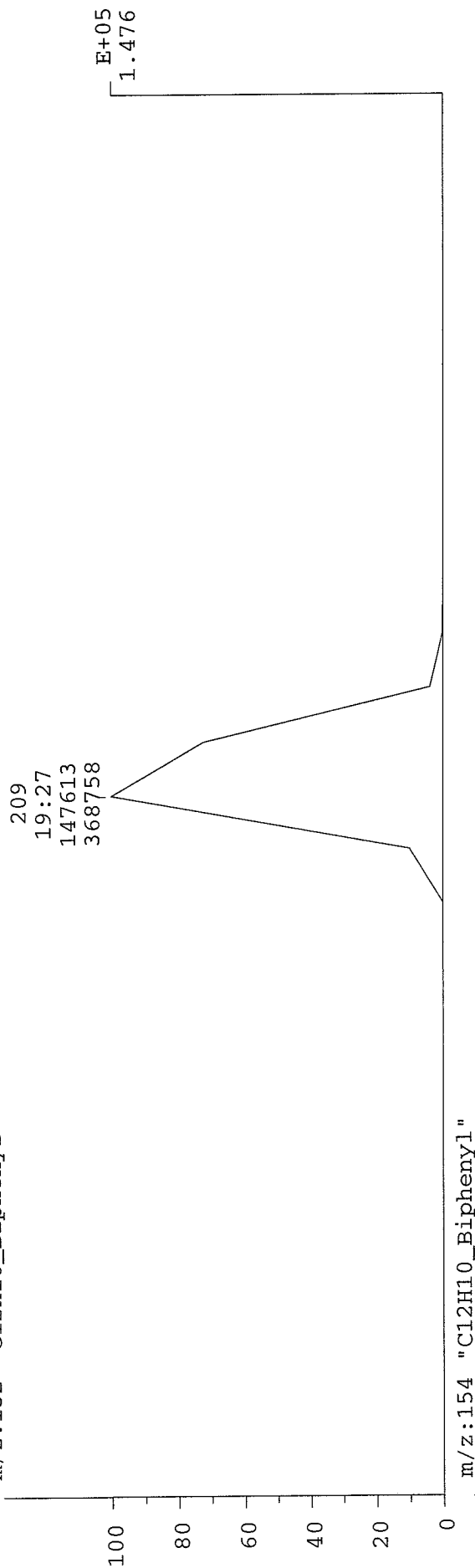


CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 196 > 222
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

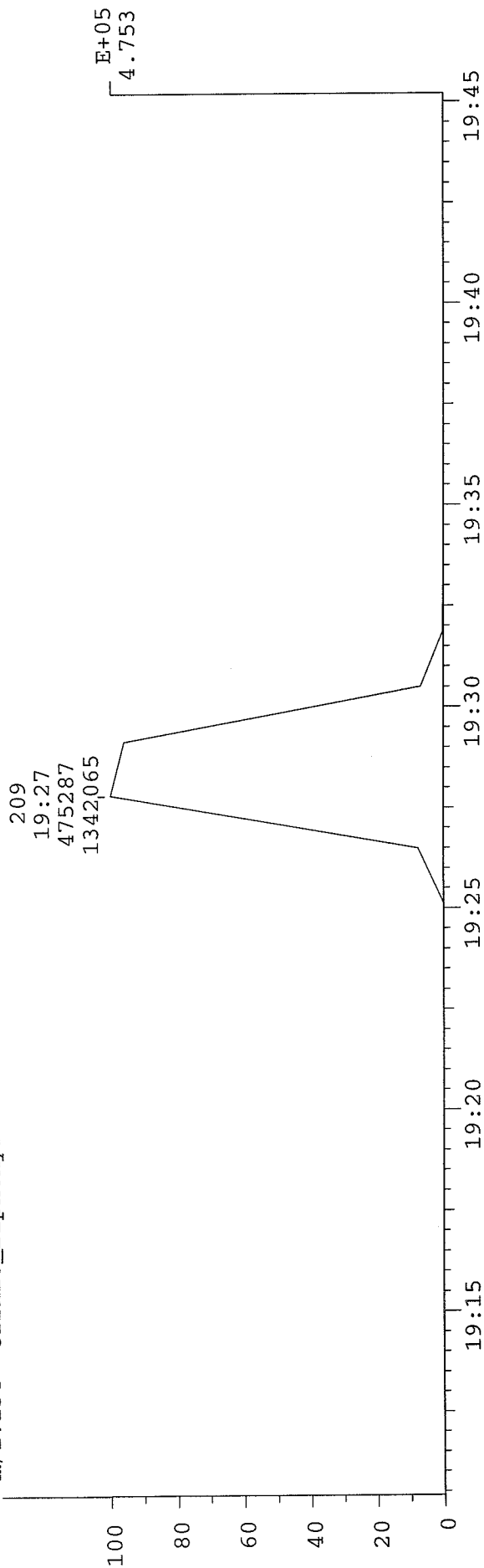
05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:152 "C12H10_Biphenyl"



m/z:154 "C12H10_Biphenyl"



CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 41:00 1327
Start : 20:54:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

05-APR-06

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



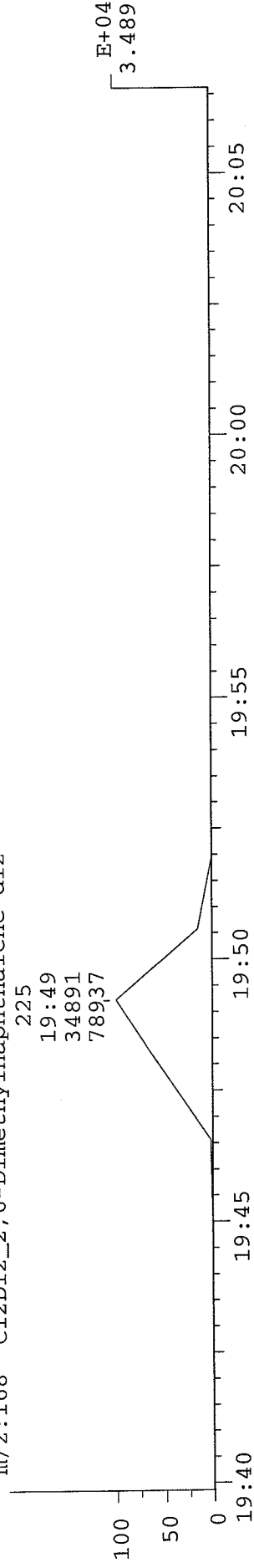
m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"

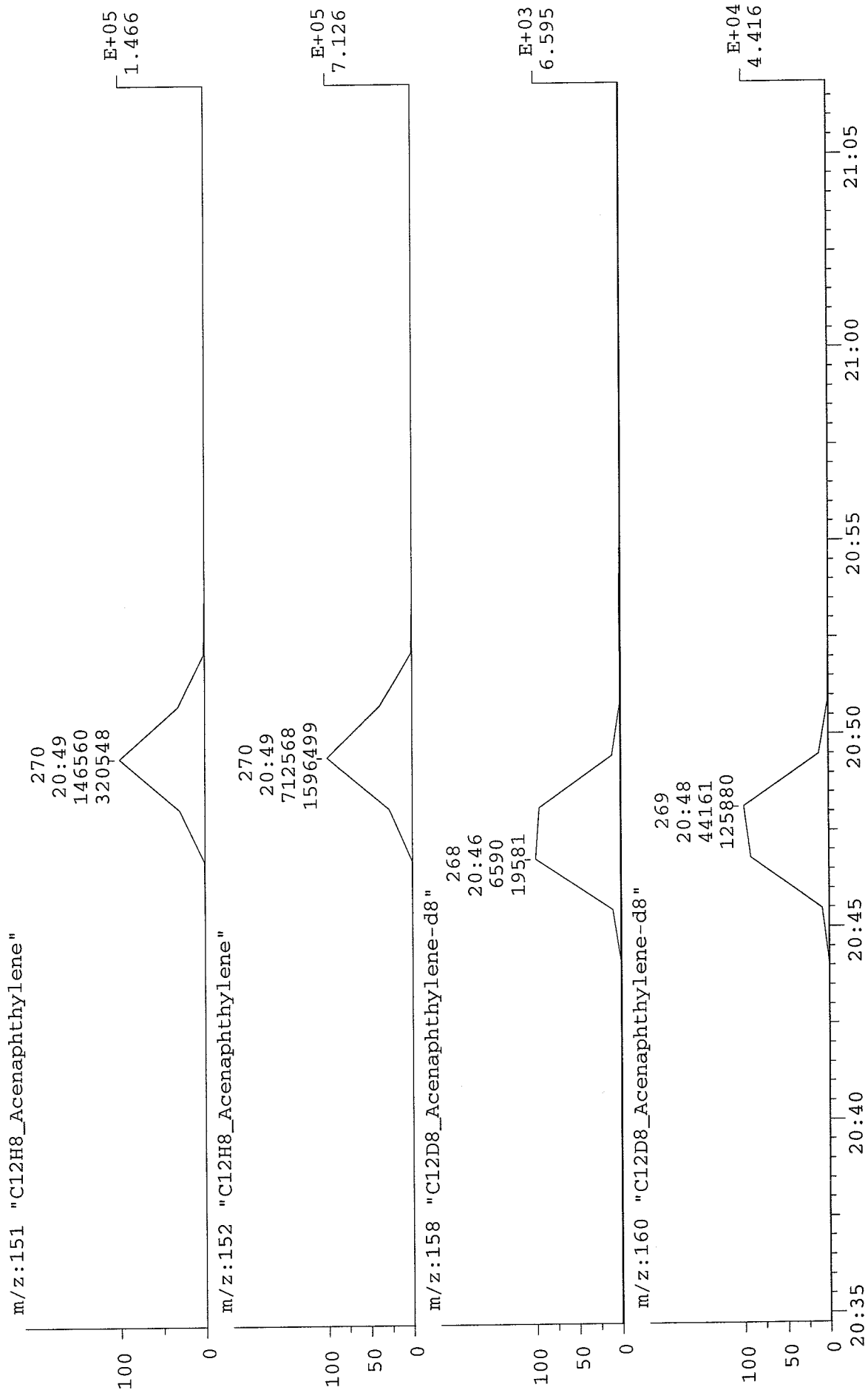


m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



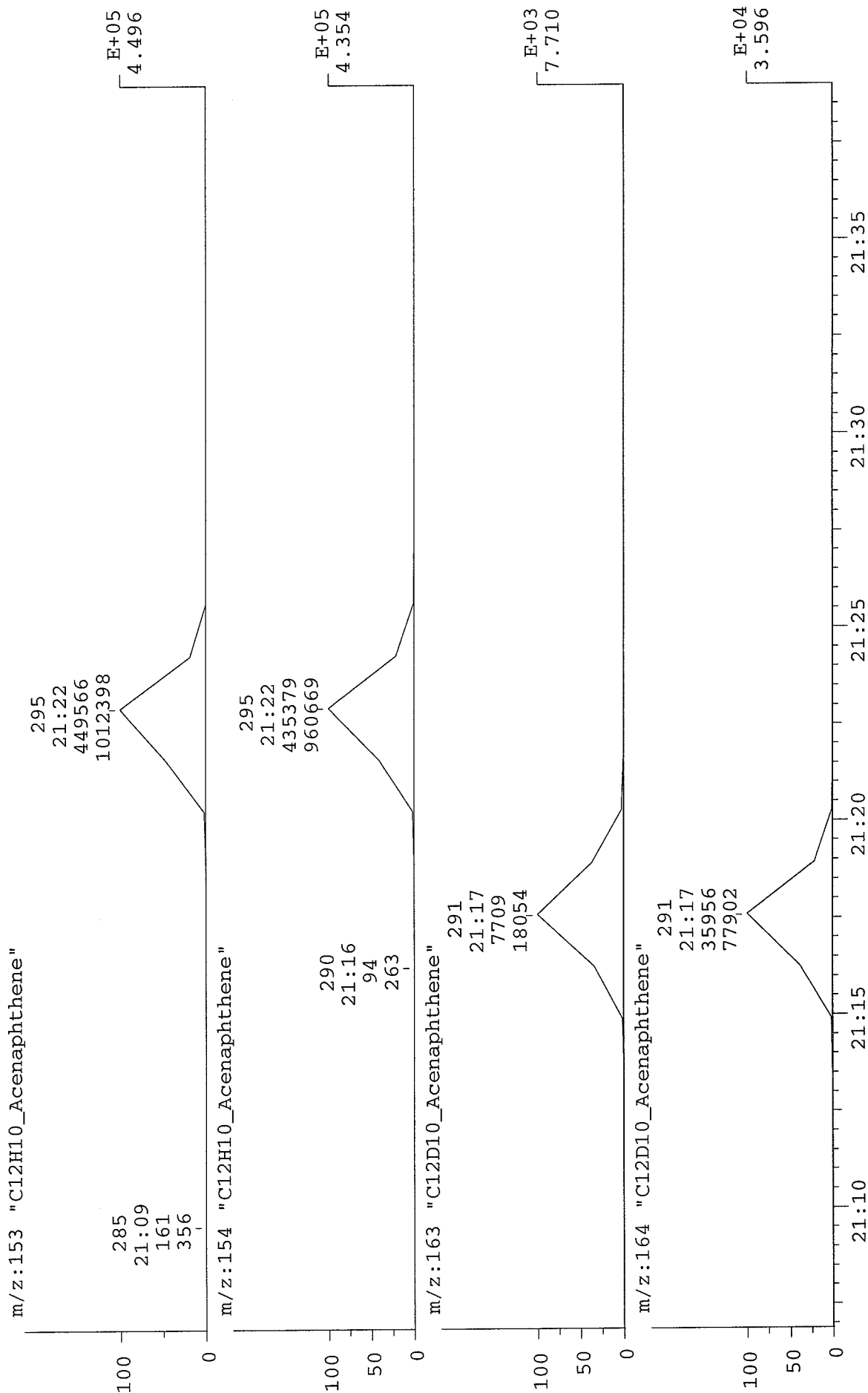
CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 283 > 307
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

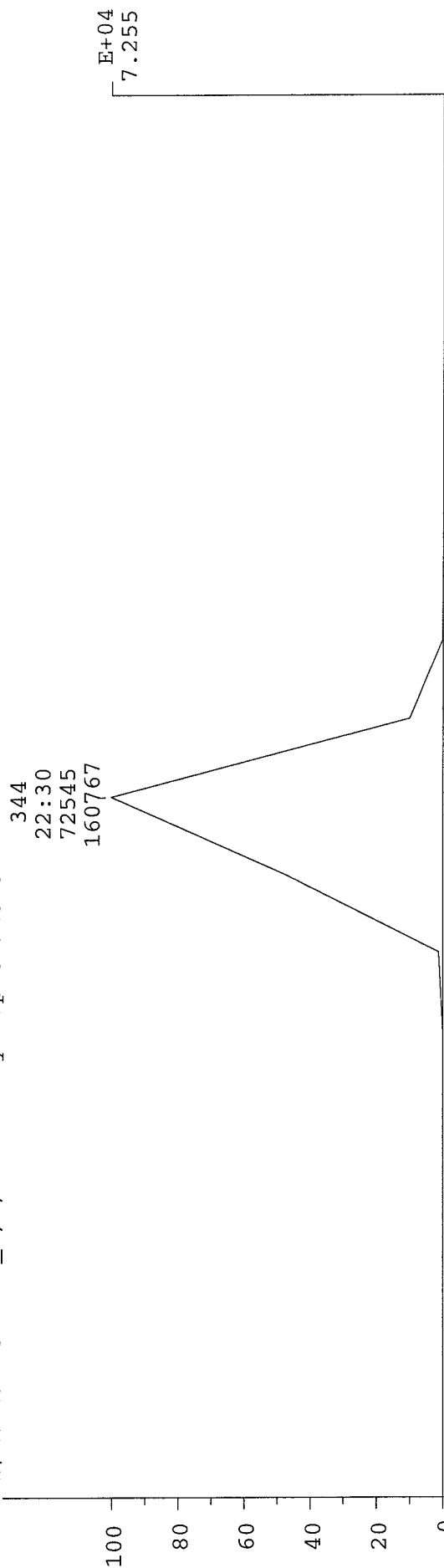


CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

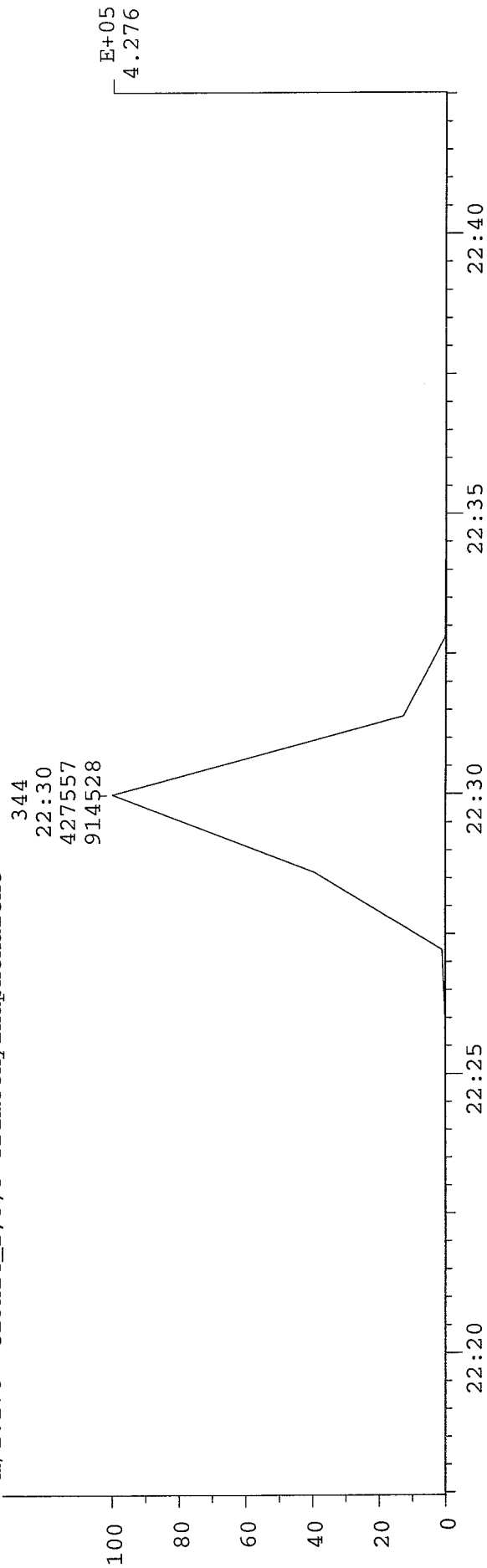
05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"

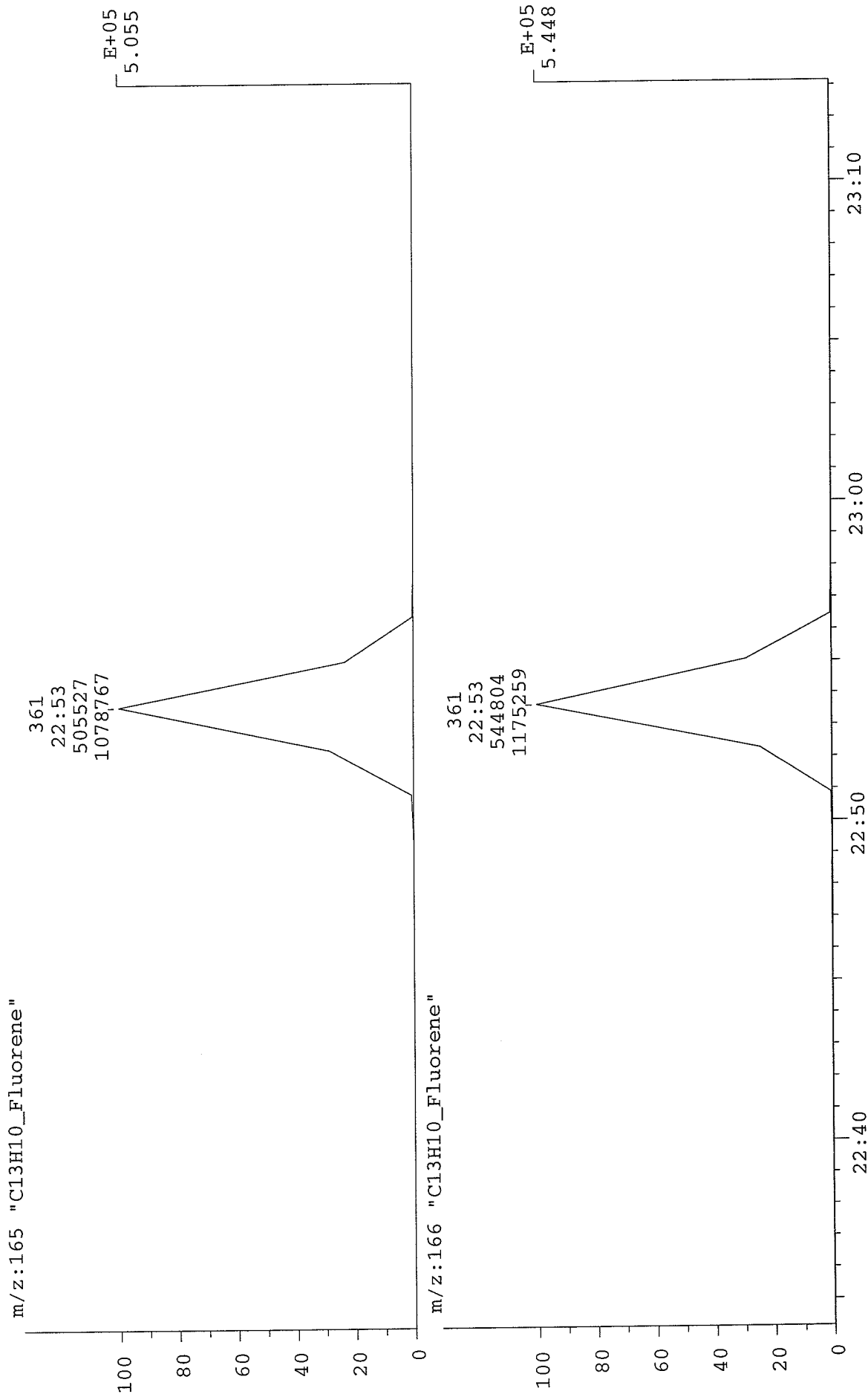


m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"



CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

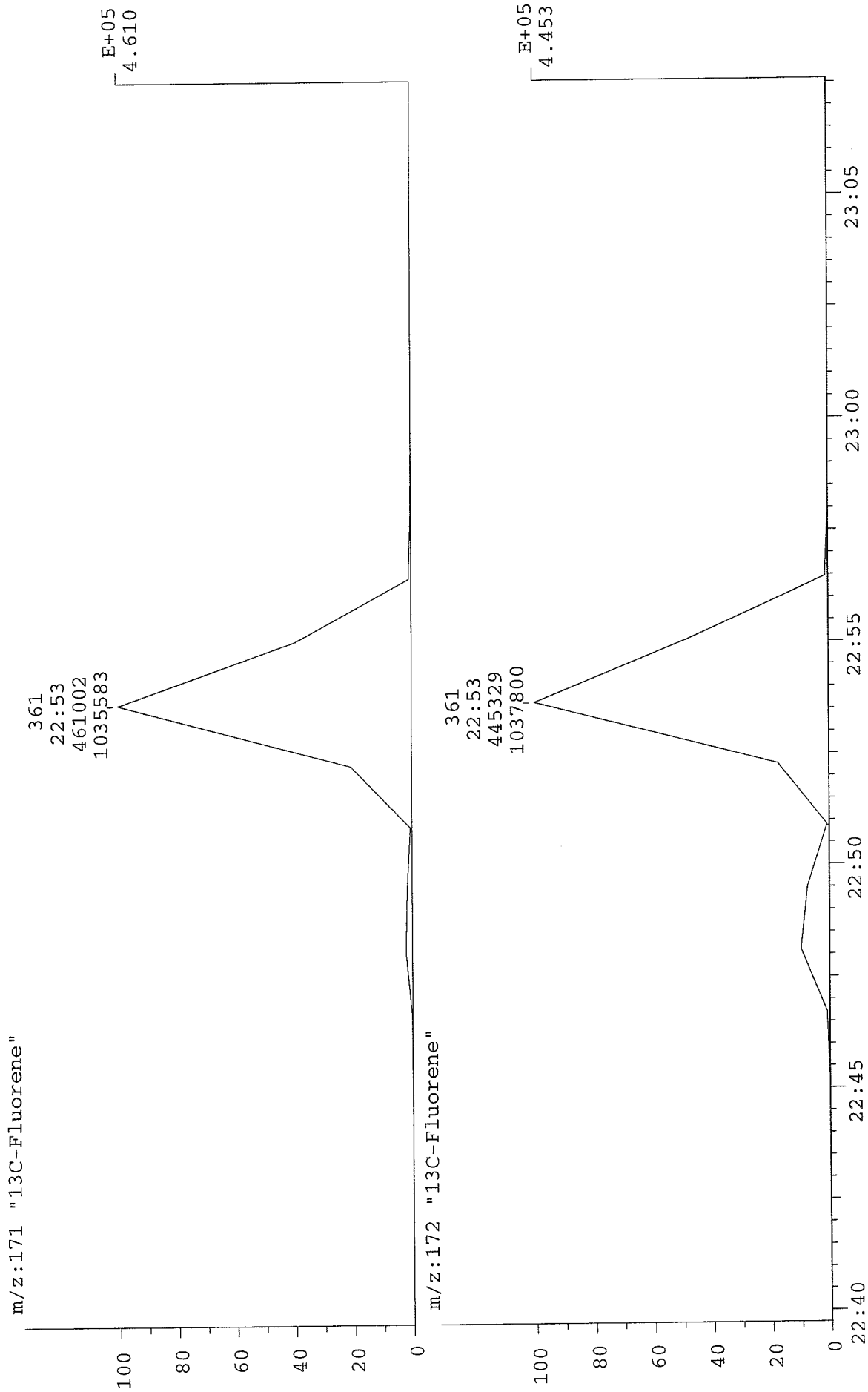
05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 351 > 371
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

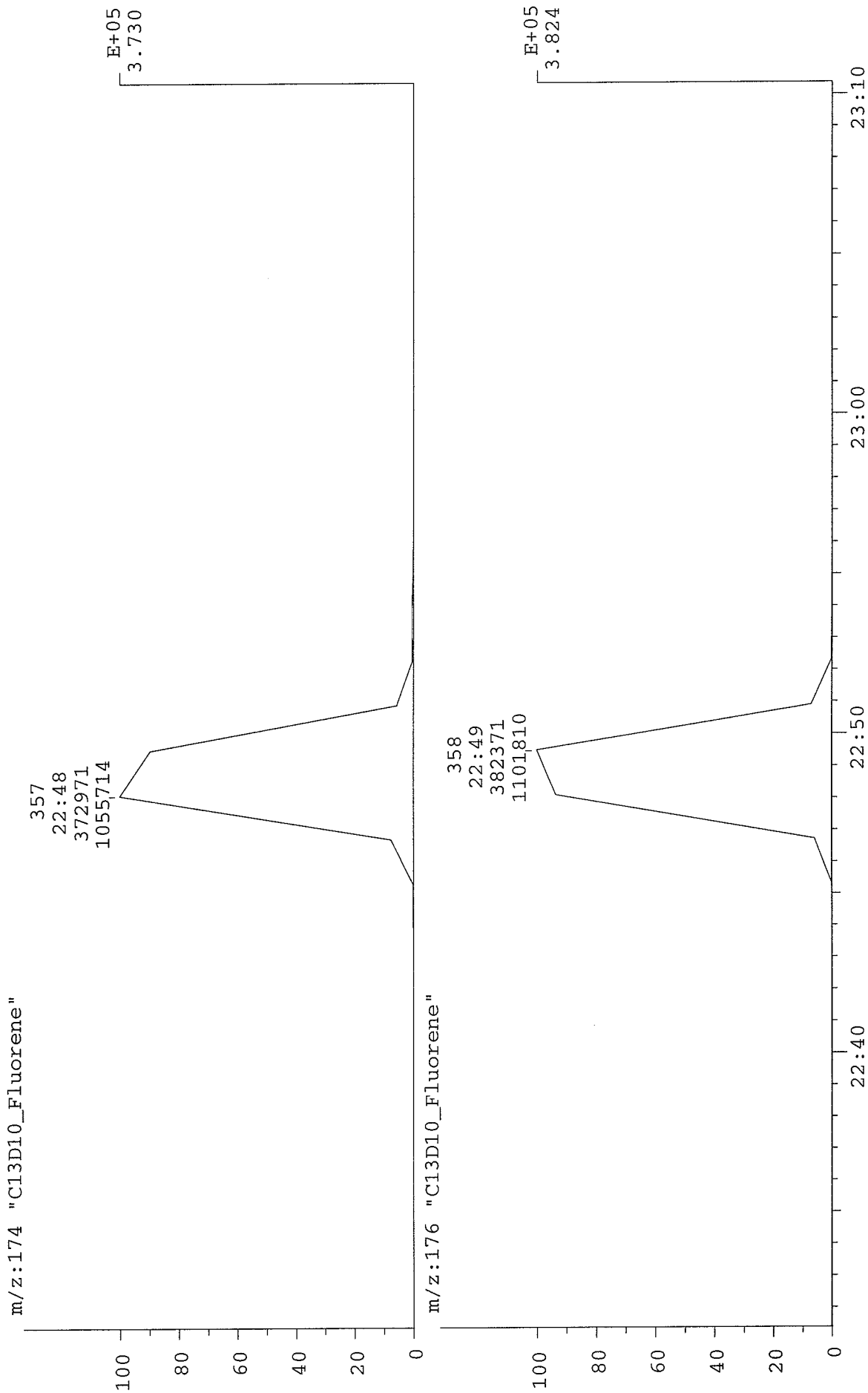
05-APR-06 Elapse: 22:49.5 358
Start : 20:54:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 345 > 373
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 22:49.5 358
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

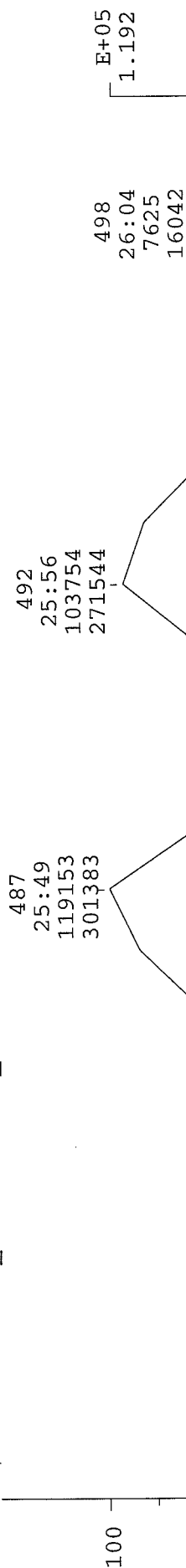


CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

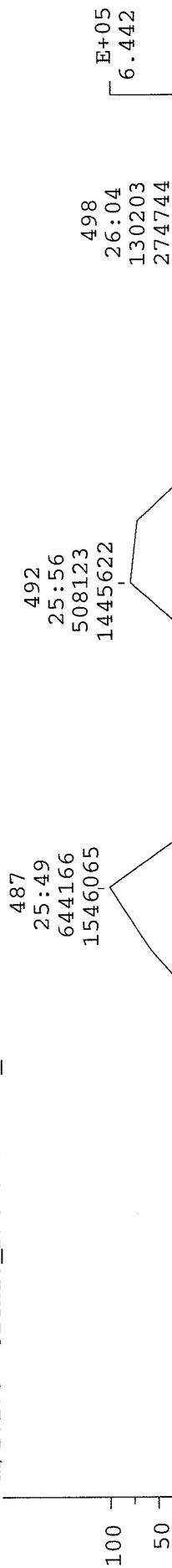
05-APR-06

Elapse: 41:00 1327
Start : 20:54:00 1384Study : 3377:01 Initial Cali
Inlet :
Masses : 0 > 308
Label : -2, 3.0

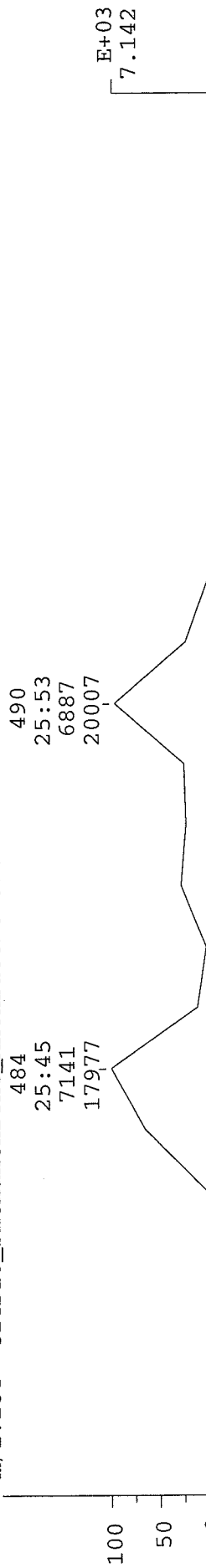
m/z:176 "C14H10_Phenanthrene_Anthracene"



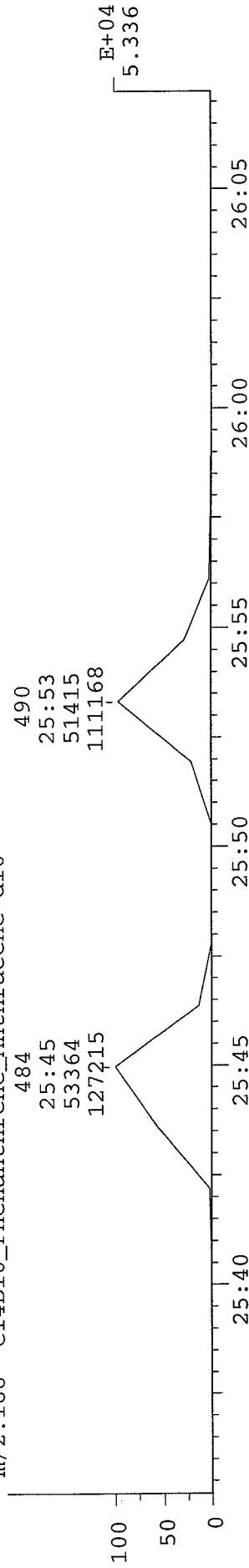
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



m/z:188 "C14D10_Phenanthrene_Anthracene-d10"

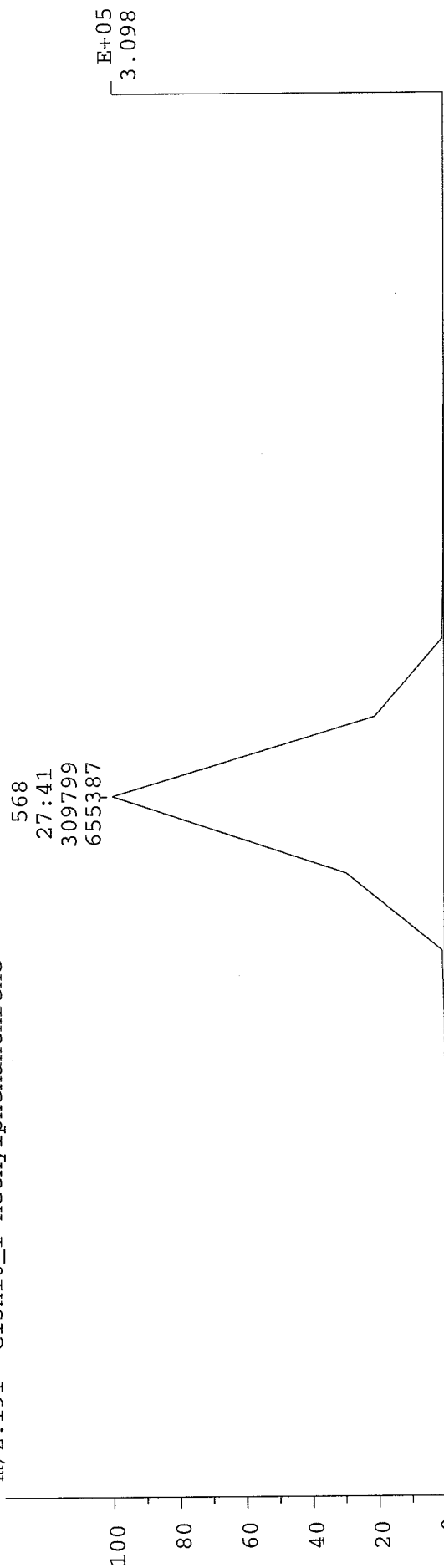


CHRO: y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

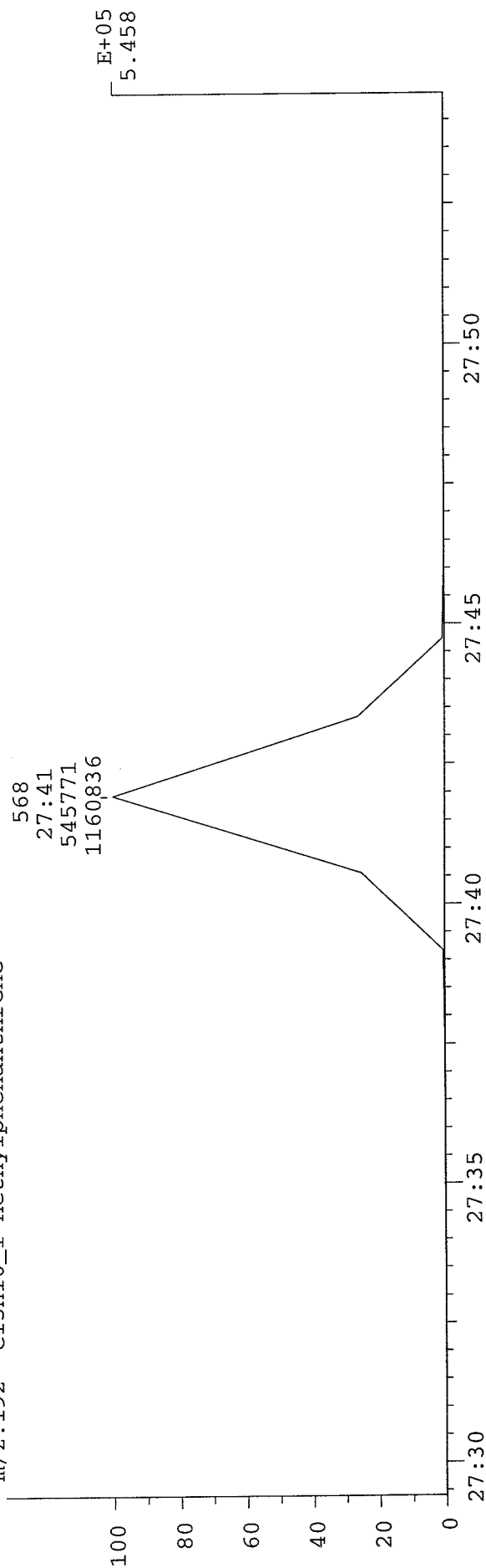
05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 648 > 725
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 41:00 1327
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

05-APR-06

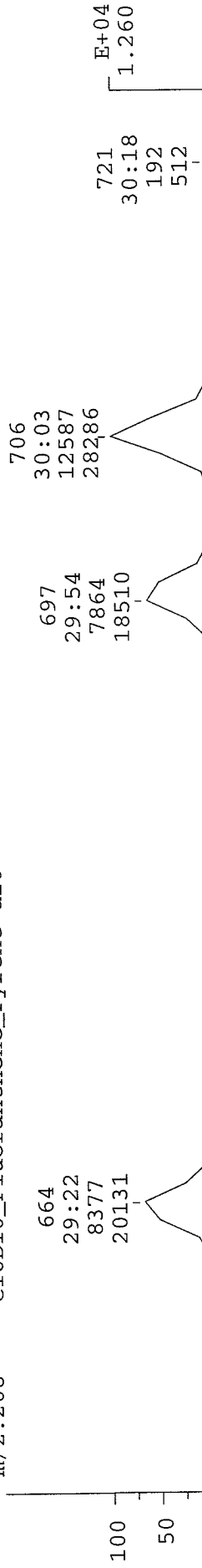
m/z:200 "C16H10_Fluoranthene_Pyrene"



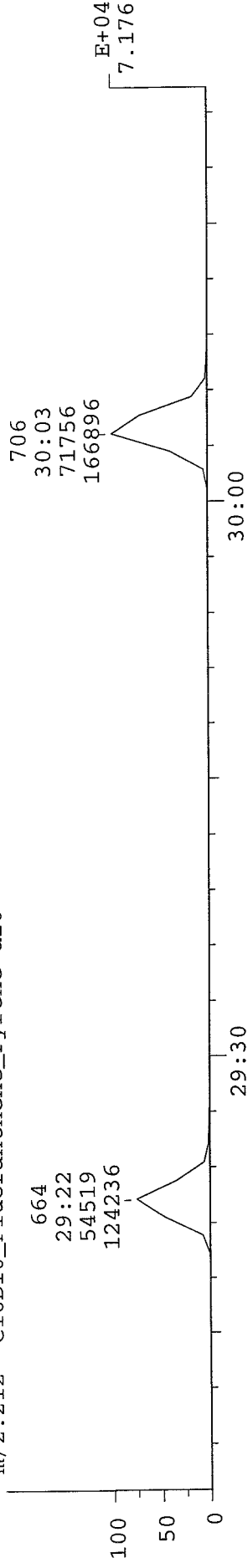
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 " " C16D10_Fluoranthene_Pyrene-d10



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wmdw: 916 > 945
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384

Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

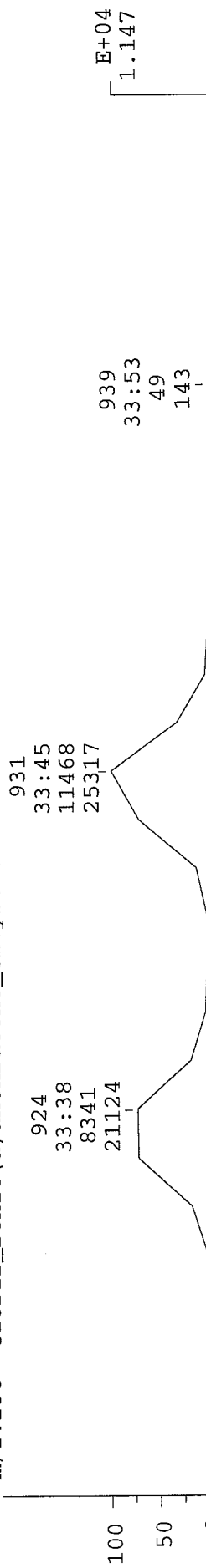
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



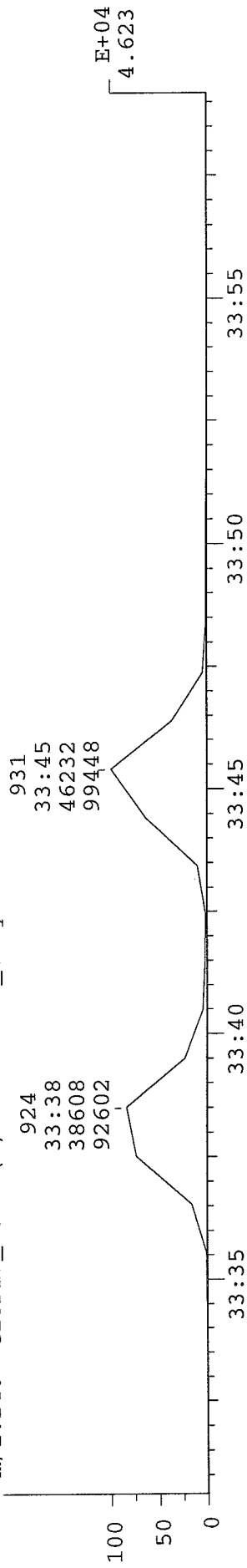
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"

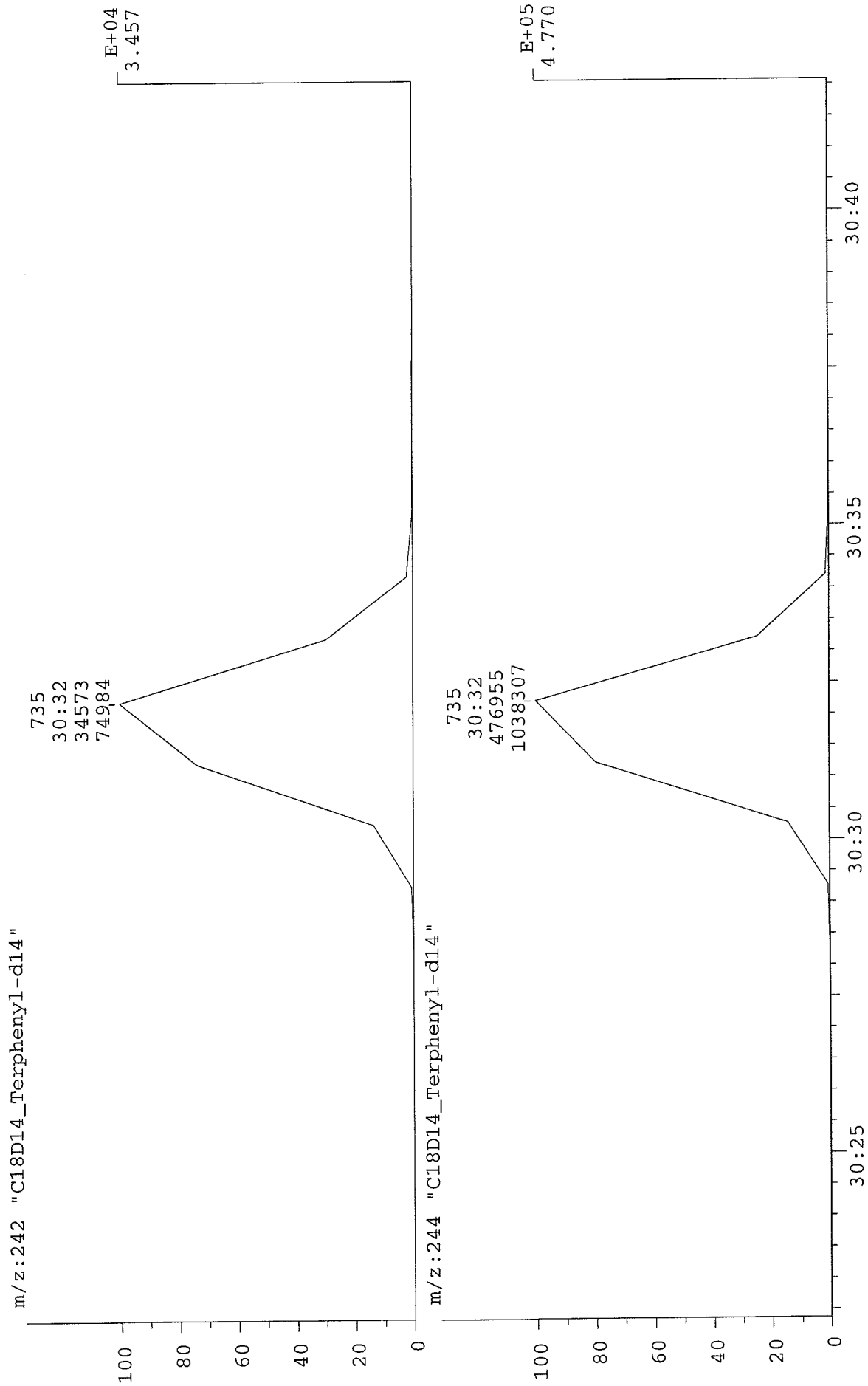


m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"



CHRO: Y060405i7
Samp: W0=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 725 > 745
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 22:49.5 358
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060405i7
 Samp: WO=3377:01_7 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LJN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1095 > 1116
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06 Elapse: 41:00 1327
 Start : 20:54:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

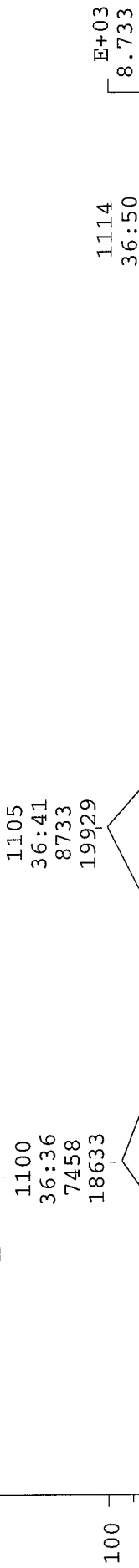
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



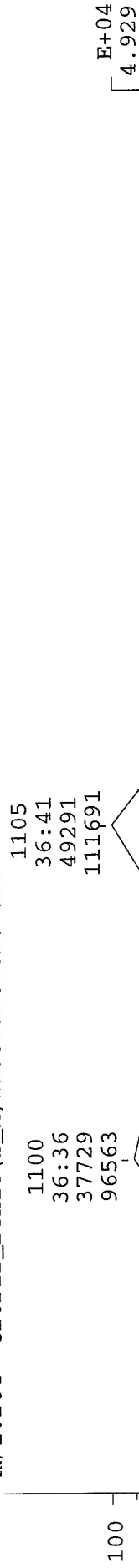
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



36:35 36:40 36:45 36:50

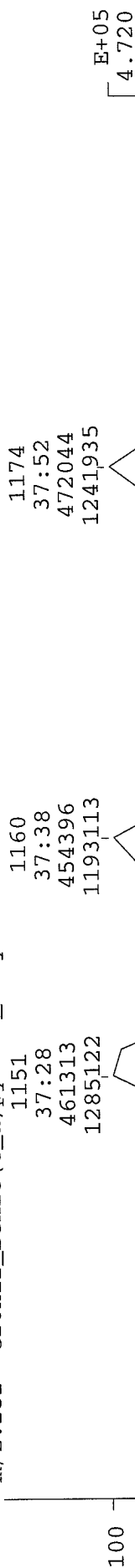
CHRO: Y060405i7
 Samp: WO=3377:01_7 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1135 > 1188
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06

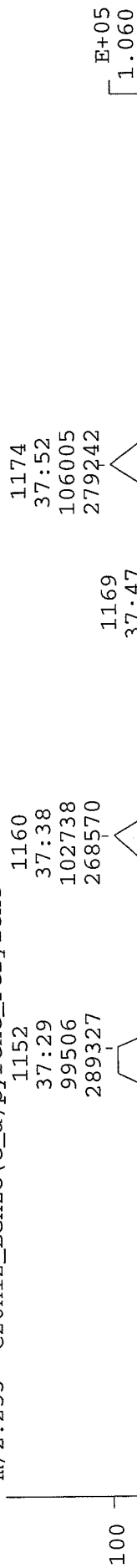
Elapse: 41:00 1327
 Start : 20:54:00 1384

Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:253 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



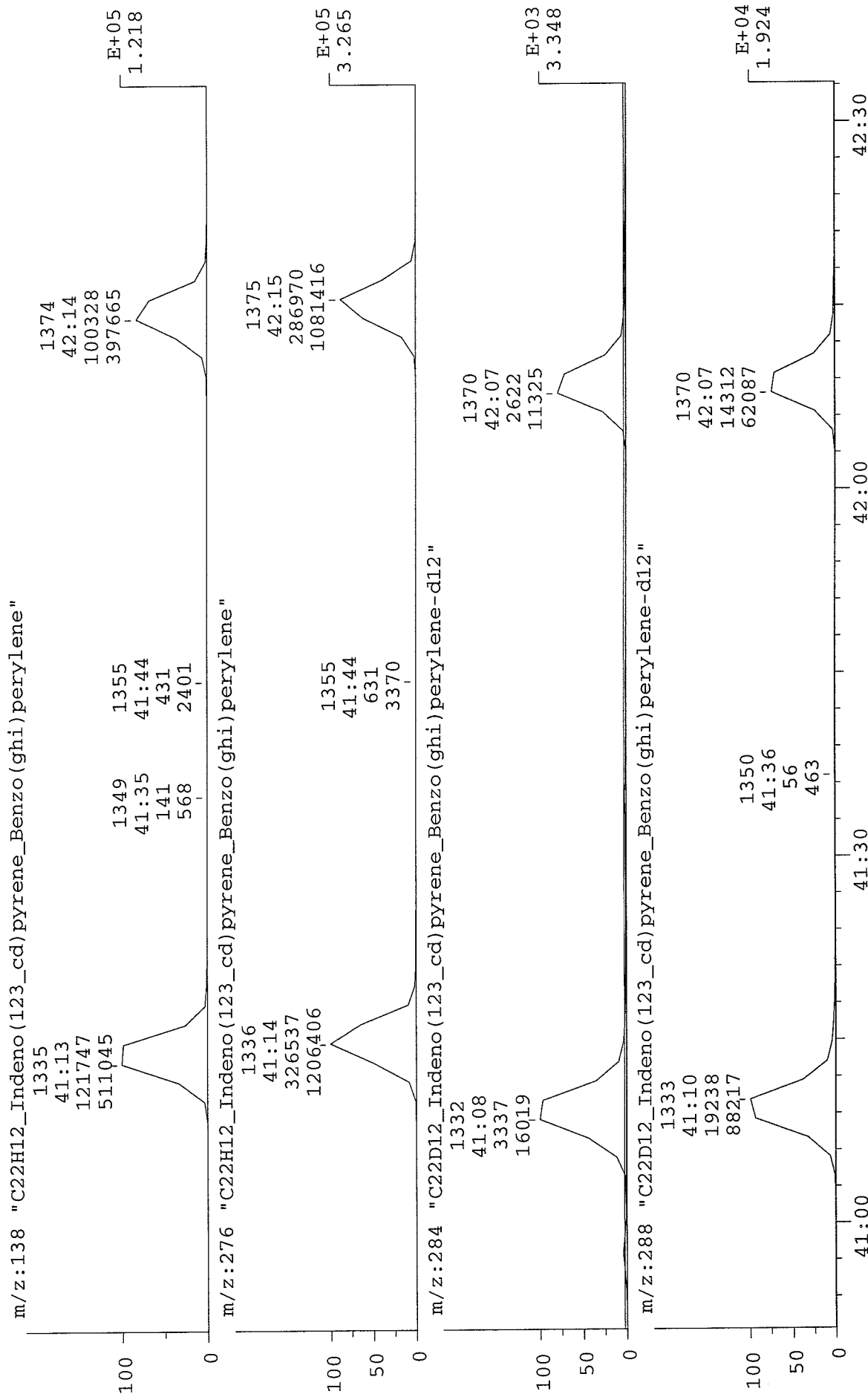
m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



CHRO: Y060405i7
 Samp: WO=3377:01_7 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wdw: 1321 > 1387
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06 Elapse: 41:00 1327
 Start : 20:54:00 1384

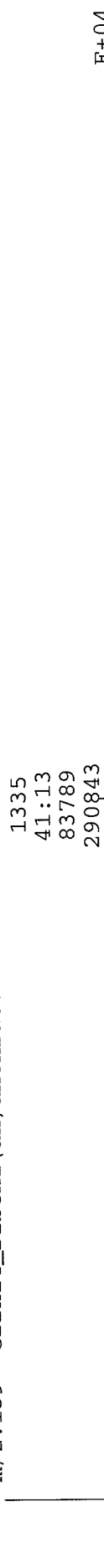
Study : 3377:01 Initial Cali
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



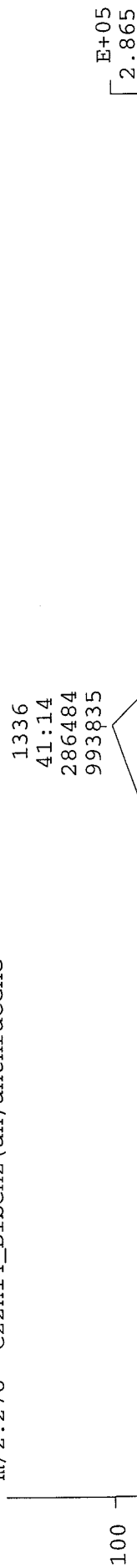
CHRO: Y060405i7
Samp: WO=3377:01_7 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 41:00 1327
Start : 20:54:00 1384
Study : 3377:01 Initial Cali
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: Y60405I7.D
 Date Acquired: 5 Apr 2006 8:54 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060405I7
 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 06 13:45:49 2006
 d:\cdf\files\Y60405I7.CDF Translated at Thu Apr 06 13:45:49 2006 Elapsed: 0 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Thu Apr 6 08:12:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60405i7.dat
 NetCDF File (input): /usr/users/hp/data/y60405i7.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 6 08:12:01 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



IsoCalc

Workorder 2904:79
Data File /20060405I/icv060405.d
Analysis ID 89898
Analysis Date 4/5/2006
Analysis Time 22:28
Anal Exp Date
Instrument H2A
Analyst JMN

Prep Batch
Prep Date
Prep Exp Date
Matrix UNKNOWN
Initial Wt/Vol
Extract Vol
Dil Factor 1.0

Lot No
SDG No
Date Received
Date Sampled
Lims Test Code
Method DXLPAH
Code YA1

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	215557	73122	1.859✓	500.0	465.832653	93.17	465.832653	0.0706
Naphthalene	16:01	280578	87517	1.175	500.0	553.890125	110.78	553.890125	0.0873
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
2-Methylnaphthalene	18:04	182553	75020	1.229	500.0	532.787060	106.56	532.787060	0.177
2-Methylnaphthalene-d10	17:59	139397	57581	1.171	500.0	478.237601	95.65	478.237601	0.131
1-Methylnaphthalene	18:24	168917	62989	1.315	500.0	515.813198	103.16	515.813198	0.182
1-Methylnaphthalene-d10	18:18	124516	52215	1.021	500.0	489.944183	97.99	489.944183	0.150
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:27	225782	85523	1.495	500.0	541.707315	108.34	541.707315	0.247
2,6-Dimethylnaphthalene	19:56	154790	71647	1.205	500.0	521.862407	104.37	521.862407	0.647
2,6-Dimethylnaphthalene-d1	19:49	123075	52896	1.042	500.0	474.514308	94.90	474.514308	0.210
Acenaphthylene	20:49	262440	119811	1.204	500.0	548.987830	109.80	548.987830	0.108
Acenaphthylene-d8	20:48	198523	67456	1.642	500.0	485.718744	97.14	485.718744	0.0799
Acenaphthene-d10	21:17	124458	57136	1.000	500.0	500.000000	100.00	500.000000	0.153
Acenaphthene	21:23	161439	72320	0.744	500.0	546.505703	109.30	546.505703	0.423
2,3,5-Trimethylnaphthalene	22:30	149382	65805	1.086	500.0	558.815707	111.76	558.815707	0.131
Fluorene	22:53	197787	86649	0.910	500.0	554.253650	110.85	554.253650	0.138
Phenanthrene-d10	25:45	196073	79819	0.812	500.0	464.816171	92.96	464.816171	0.0521
Phenanthrene	25:49	259811	91603	1.191	500.0	556.285812	111.26	556.285812	0.118
Anthracene-d10	25:53	226347	106254	0.687	500.0	634.216402	126.84	634.216402	0.0616
Anthracene	25:56	254405	105974	1.024	500.0	633.545625	126.71	633.545625	0.138
1-Methylphenanthrene	27:42	195654	90532	0.853	500.0	584.913857	116.98	584.913857	0.129
Fluoranthene-d10	29:22	194019	86434	0.782	500.0	477.591922	95.52	477.591922	0.108
Fluoranthene	29:25	275603	127043	1.303	500.0	545.086301	109.02	545.086301	0.0777
Pyrene-d10	30:03	259747	118245	1.000	500.0	500.000000	100.00	500.000000	0.0846
Pyrene	30:06	288374	129586	1.326	500.0	560.451867	112.09	560.451867	0.0763
Benzo(a)Anthracene-d12	33:37	137466	58001	0.555	500.0	476.784114	95.36	476.784114	0.133
Benzo(a)anthracene	33:41	216288	99821	1.417	500.0	555.184437	111.04	555.184437	0.106
Chrysene-d12	33:45	147324	61110	0.600	500.0	472.652235	94.53	472.652235	0.123
Chrysene	33:49	213648	100974	1.317	500.0	550.566217	110.11	550.566217	0.109
Benzo(b)Fluoranthene-d12	36:36	145603	63795	0.898	500.0	513.616142	102.72	513.616142	0.398
Benzo(k)Fluoranthene-d12	36:40	161171	58909	1.051	500.0	485.767955	97.15	485.767955	0.340
Benzo(b)fluoranthene	36:40	227226	88515	1.287	500.0	606.288258	121.26	606.288258	0.594
Benzo(k)fluoranthene	36:43	193001	82037	1.241	500.0	482.470630	96.49	482.470630	0.667
Benzo(e)pyrene-d12	37:24	157843	59515	1.000	500.0	500.000000	100.00	500.000000	0.357
Benzo(e)pyrene	37:28	213806	83371	1.529	500.0	575.268140	115.05	575.268140	0.770
Benzo(a)Pyrene-d12	37:33	121538	41417	0.775	500.0	496.769657	99.35	496.769657	0.461
Benzo(a)pyrene	37:37	177969	68528	1.288	500.0	568.442337	113.69	568.442337	0.914
Perylene-d12	37:47	145222	51833	0.932	500.0	493.584120	98.72	493.584120	0.383
Perylene	37:51	183278	64861	1.146	500.0	550.634362	110.13	550.634362	0.821
Dibenz(ah)Anthracene-d14	41:07	67334	19785	0.424	500.0	503.052412	100.61	503.052412	0.743
Indeno(1,2,3-cd)pyrene-d12	41:08	129285	29759	0.816	500.0	501.883200	100.38	501.883200	0.232
Indeno(1,2,3-cd)pyrene	41:14	186991	46331	1.239	500.0	583.675229	116.74	583.675229	0.441
Dibenz(a,h)anthracene	41:13	146821	42874	1.947	500.0	559.961046	111.99	559.961046	0.422
Benzo(ghi)Perylene-d12	42:07	63103	16210	0.591	500.0	338.226167	67.65	338.226167	0.320
Benzo(ghi)perylene	42:14	166638	45420	1.602	500.0	824.197951	164.84	824.197951	0.626
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000

PAH's by LRMS Extended List

Workorder 2904:79	Prep Batch	Lot No
Data File /20060405I/icv060405.d	Prep Date	SDG No
Analysis ID 89898	Prep Exp Date	Date Received
Analysis Date 04/05/06 22:28	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	16:01	00:00	0	280578 ✓		87517			ABV	
136					136.0000		136.0000				
	Noise	00:00	00:00	0	15		6				
	Naphthalene-d8	15:58	00:00	0	215557 ✓		73122			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	25		10				
	2-Methylnaphthalene	18:04	00:00	0	182553 ✓		75020			AVV	
	1-Methylnaphthalene	18:24	00:00	0	168917 ✓		62989			AVB	M
146					146.0000		146.0000				
	Noise	00:00	00:00	0	0	0	0	0			
152					152.0000		152.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene-d10	17:59	00:00	0	139397 ✓		57581			ABV	
	1-Methylnaphthalene-d10	18:18	00:00	0	124516 ✓		52215			AVV	M
	Acenaphthylene	20:49	00:00	0	262440 ✓		119811			ABB	
154					154.0000		154.0000				
	Noise	00:00	00:00	0	43		17				
	Biphenyl	19:27	00:00	0	225782 ✓		85523			ABB	
	Acenaphthene	21:23	00:00	0	161439 ✓		72320			AVB	
156					156.0000		156.0000				
	Noise	00:00	00:00	0	83		33				
	2,6-Dimethylnaphthalene	19:56	00:00	0	154790 ✓		71647			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	15		6				
	Acenaphthylene-d8	20:48	00:00	0	198523 ✓		67456			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	18		7				
	Acenaphthene-d10	21:17	00:00	0	124458 ✓		57136			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	20		8				
	Fluorene	22:53	00:00	0	197787 ✓		86649			AVB	
168					168.0000		168.0000				
	Noise	00:00	00:00	0	25		10				
	2,6-Dimethylnaphthalene	19:49	00:00	0	123075 ✓		52896			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	23		9				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	15		6				
	2,3,5-Trimethylnaphthal	22:30	00:00	0	149382 ✓		65805			ABB	W

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

PAH's by LRMS Extended List

Workorder 2904:79	Prep Batch	Lot No
Data File /20060405I/icv060405.d	Prep Date	SDG No
Analysis ID 89898	Prep Exp Date	Date Received
Analysis Date 04/05/06 22:28	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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				
	Noise	00:00	00:00	0	10		4				
176					176.0000		176.0000				
	Noise	00:00	00:00	0	15		6				
178					178.0000		178.0000				
	Noise	00:00	00:00	0	23		9				
	Phenanthrene	25:49	00:00	0	259811 ✓		91603			ABV	
	Anthracene	25:56	00:00	0	254405 ✓		105974			AVB	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene-d10	25:45	00:00	0	196073 ✓		79819			ABV	
	Anthracene-d10	25:53	00:00	0	226347 ✓		106254			AVB	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	18		7				
	1-Methylphenanthrene	27:42	00:00	0	195654 ✓		90532			ABB	
202					202.0000		202.0000				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene	29:25	00:00	0	275603 ✓		127043			ABV	
	Pyrene	30:06	00:00	0	288374 ✓		129586			ABV	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene-d10	29:22	00:00	0	194019 ✓		86434			ABV	
	Pyrene-d10	30:03	00:00	0	259747 ✓		118245			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)anthracene	33:41	00:00	0	216288 ✓		99821			ABV	
	Chrysene	33:49	00:00	0	213648 ✓		100974			AVB	
240					240.0000		240.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)Anthracene-d12	33:37	00:00	0	137466 ✓		58001			ABV	
	Chrysene-d12	33:45	00:00	0	147324 ✓		61110			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	98		39				
	Benzo(b)fluoranthene	36:40	00:00	0	227226 ✓		88515			ABV	
	Benzo(k)fluoranthene	36:43	00:00	0	193001 ✓		82037			AVB	
	Benzo(e)pyrene	37:28	00:00	0	213806 ✓		83371			AVV	
	Benzo(a)pyrene	37:37	00:00	0	177969 ✓		68528			AVV	
	Perylene	37:51	00:00	0	183278 ✓		64861			AVB	
264					264.0000		264.0000				
	Noise	00:00	00:00	0	43		17				
	Benzo(b)Fluoranthene-d1	36:36	00:00	0	145603 ✓		63795			ABV	

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

PAH's by LRMS Extended List

Workorder 2904:79	Prep Batch	Lot No
Data File /20060405I/icv060405.d	Prep Date	SDG No
Analysis ID 89898	Prep Exp Date	Date Received
Analysis Date 04/05/06 22:28	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution Factor 1.00	Code YA1

View Small Peaks? False

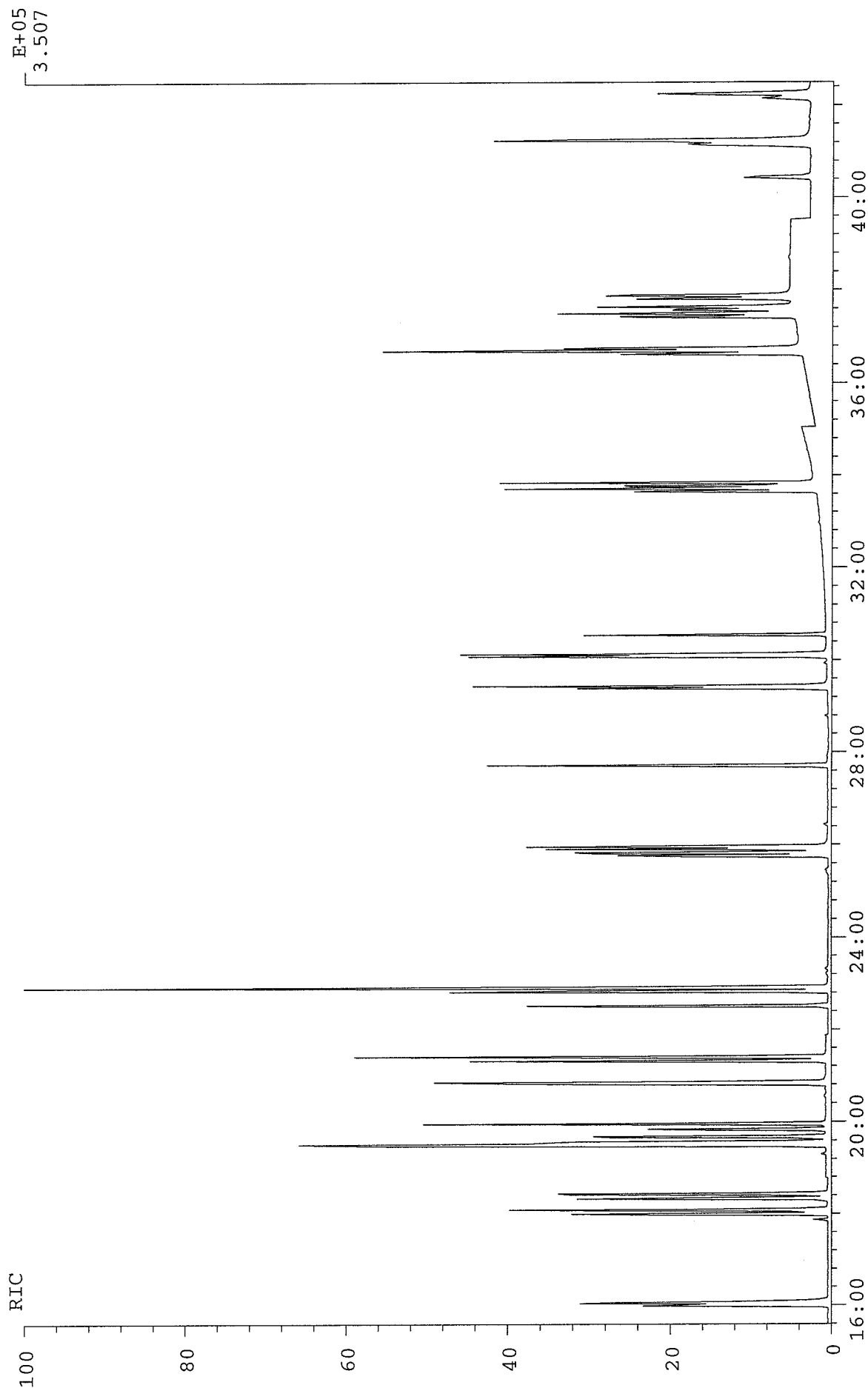
View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Benzo(k) Fluoranthene-d1	36:40	00:00	0	161171 ✓		58909			AVB	
	Benzo(e) pyrene-d12	37:24	00:00	0	157843 ✓		59515			ABV	
	Benzo(a) Pyrene-d12	37:33	00:00	0	121538 ✓		41417			AVV	
	Perylene-d12	37:47	00:00	0	145222 ✓		51833			AVV	
268					268.0000		268.0000				
	Noise	00:00	00:00	0	73		29				
276					276.0000		276.0000				
	Noise	00:00	00:00	0	33		13				
	Indeno(1,2,3-cd)pyrene	41:14	00:00	0	186991 ✓		46331			ABV	
	Benzo(ghi) perylene	42:14	00:00	0	166638 ✓		45420			ABB	
278					278.0000		278.0000				
	Noise	00:00	00:00	0	33		13				
	Dibenz(a,h) anthracene	41:13	00:00	0	146821 ✓		42874			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	23		9				
	Indeno(1,2,3-cd)pyrene-	41:08	00:00	0	129285 ✓		29759			ABV	
	Benzo(ghi) Perylene-d12	42:07	00:00	0	63103 ✓		16210			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	38		15				
	Dibenz(ah) Anthracene-d1	41:07	00:00	0	67334 ✓		19785			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

CHRO: icv060405
 Samp: WO=2904:79 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1 > 1384
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06 Elapse: 40:59 1326
 Start : 22:28:00 1384
 Study : 3377:01 ICV
 Inlet :
 Masses: 0 > 308
 Label : 0, 3.0

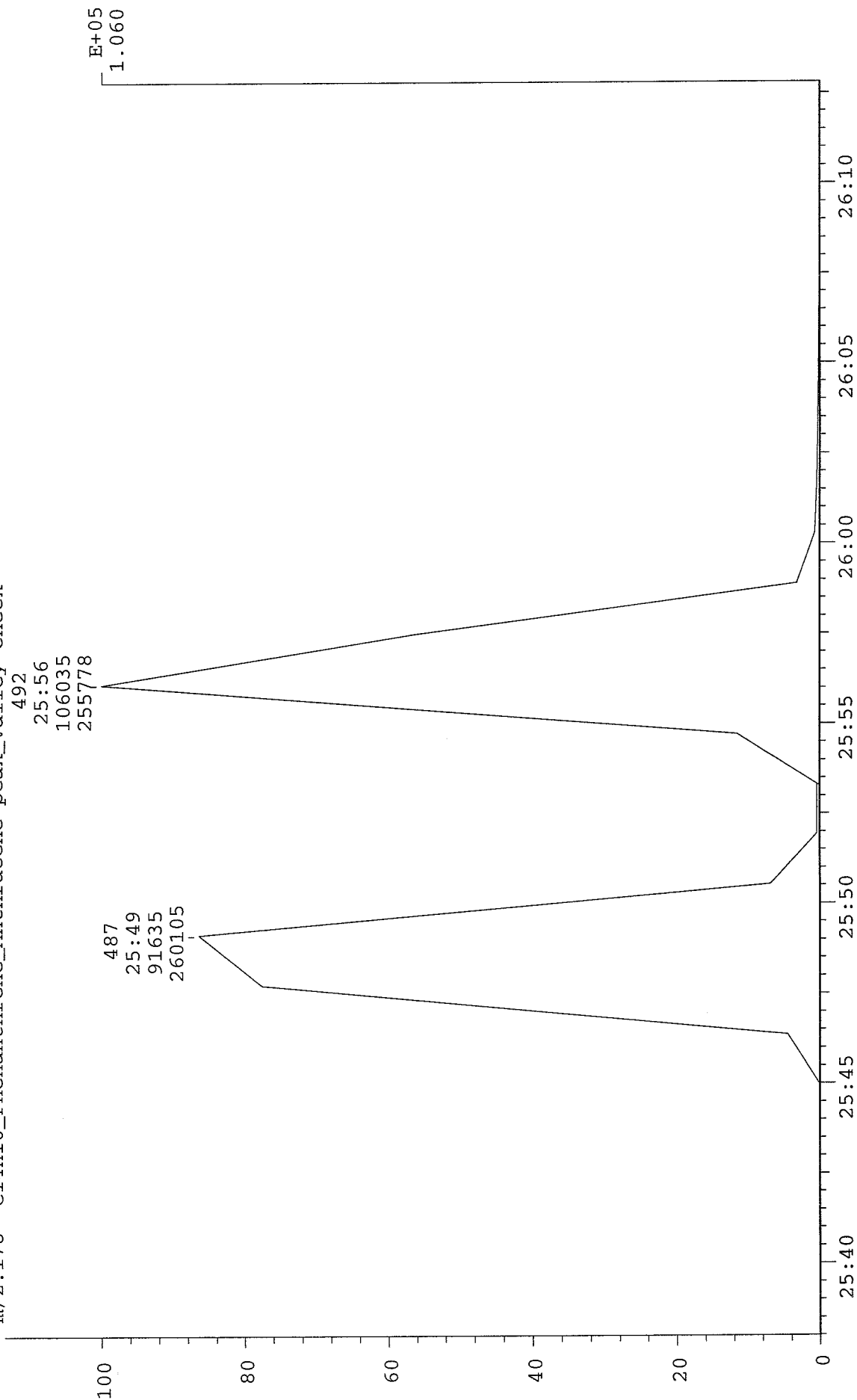


Int / Calc: 9 u10000
 QC u10000

CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384
Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"



CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 42:06 1369

Start : 22:28:00 1384

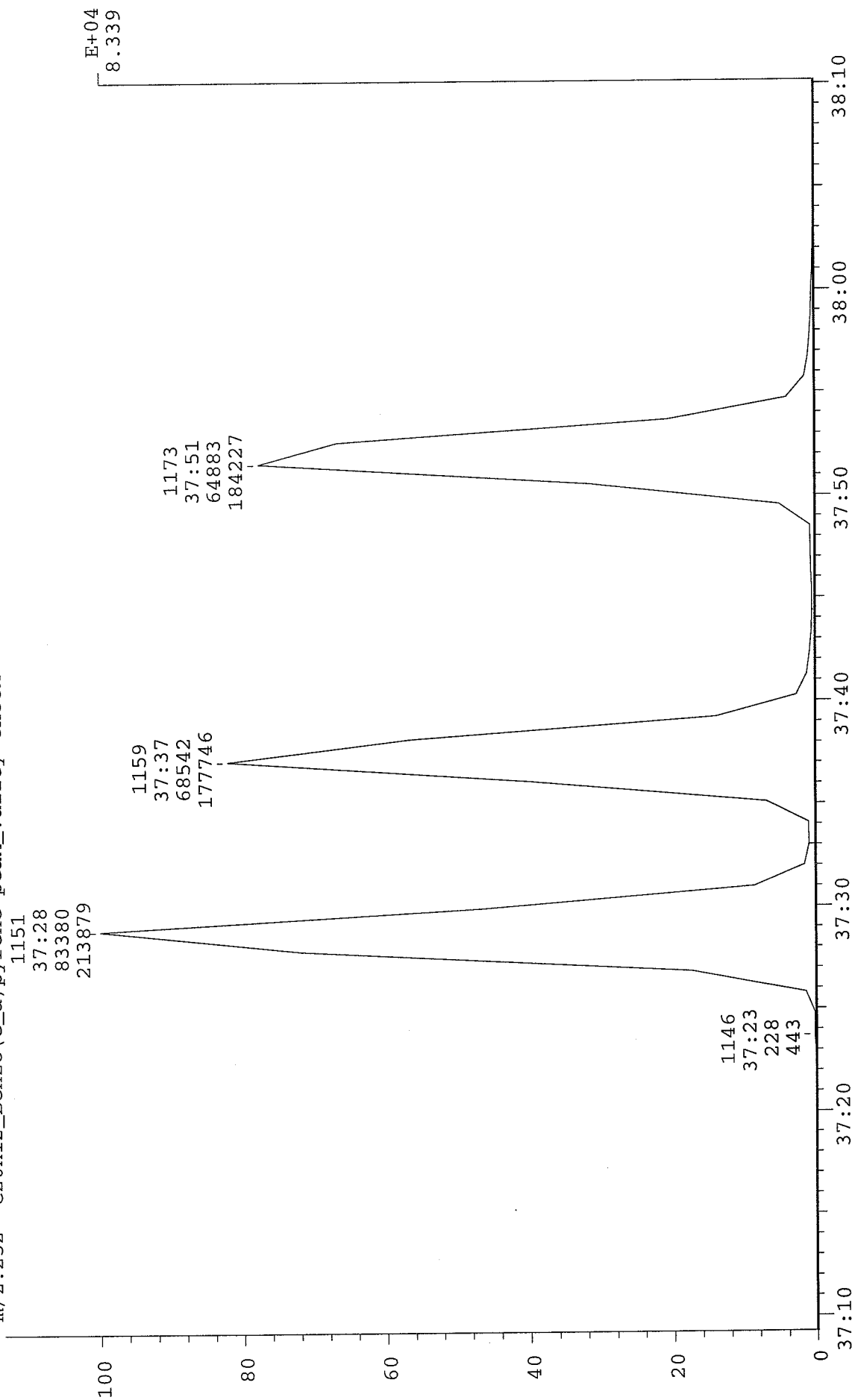
Study : 3377:01 ICV

Inlet :

Masses: 0 > 308

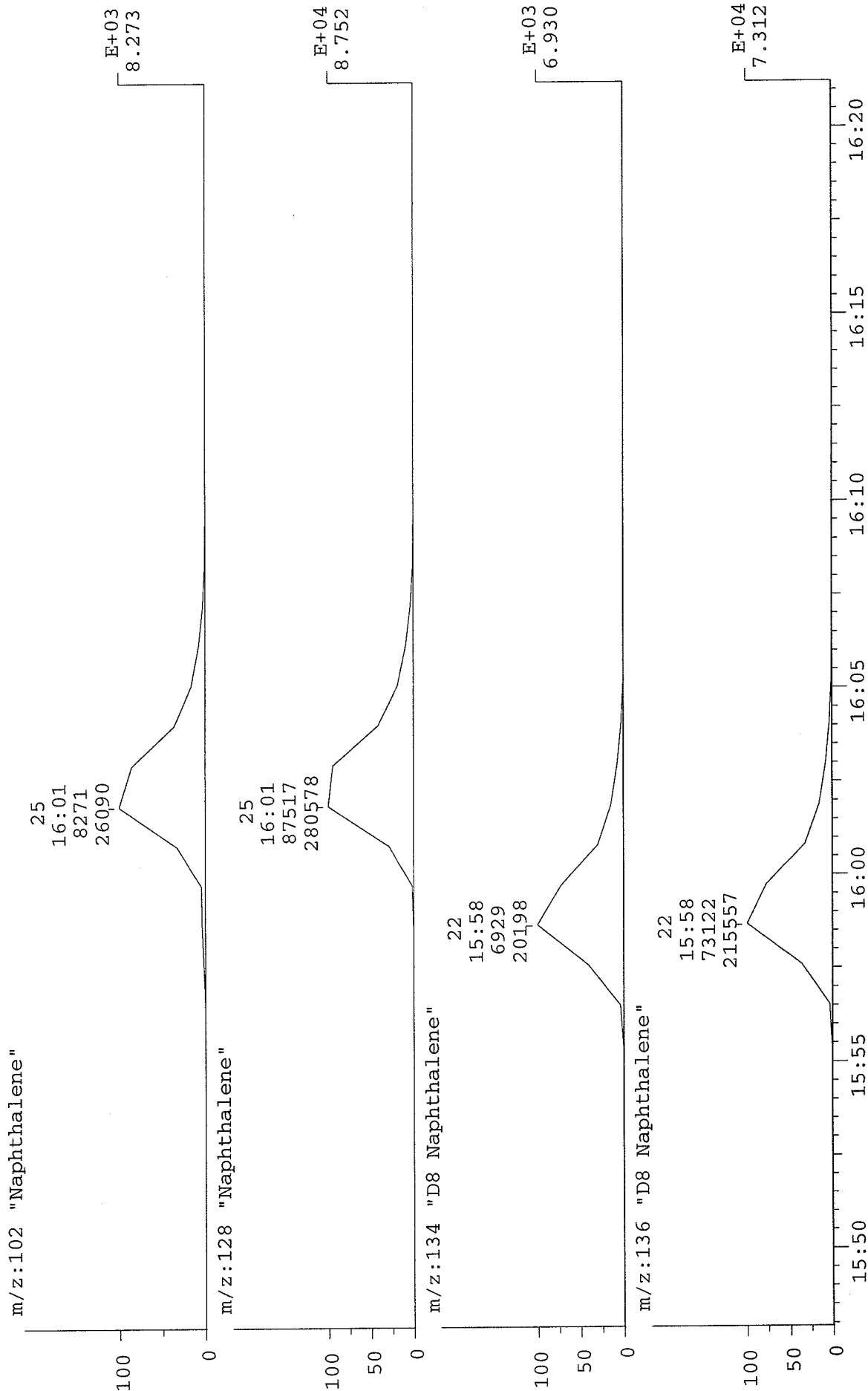
Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



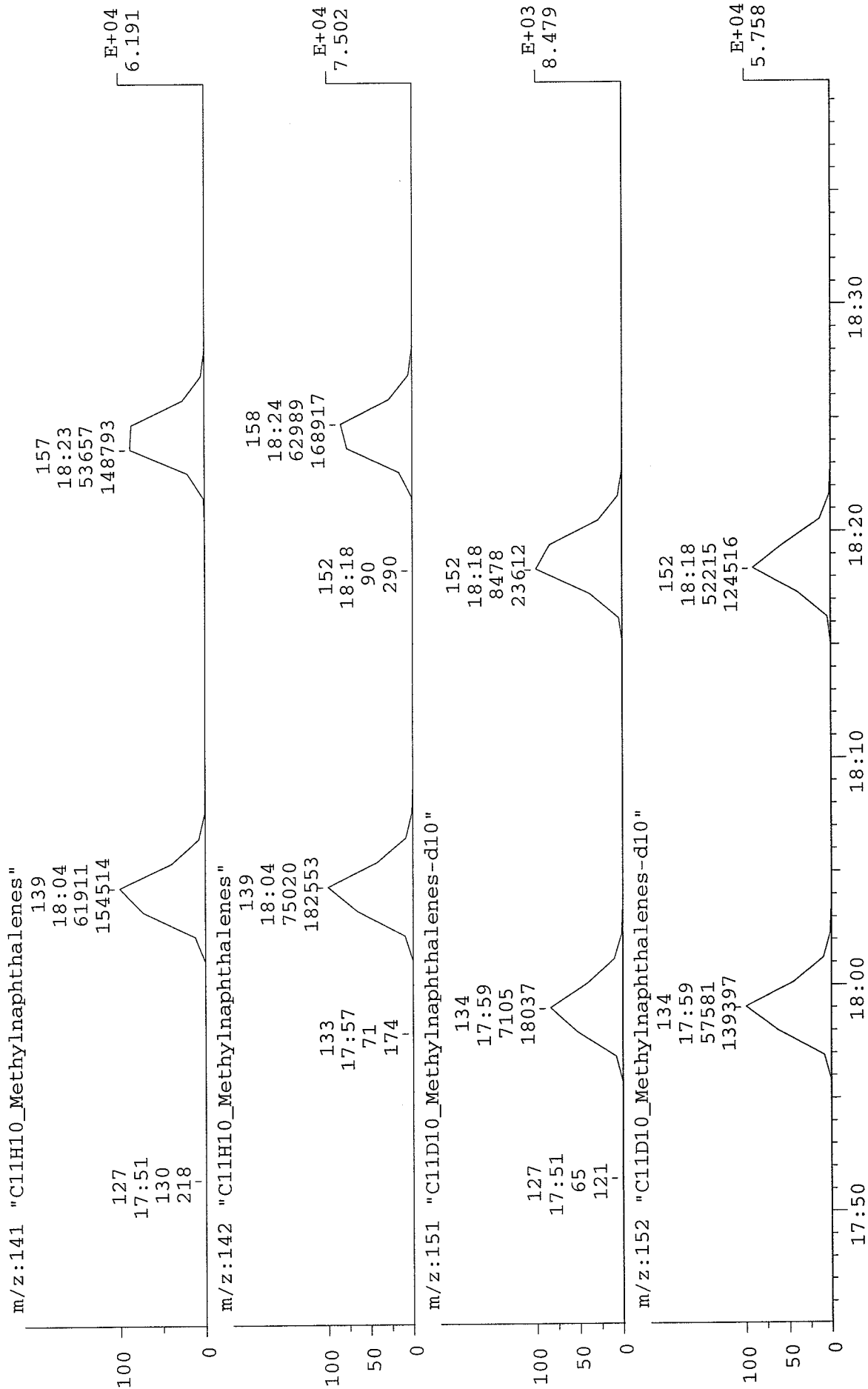
CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384
Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0



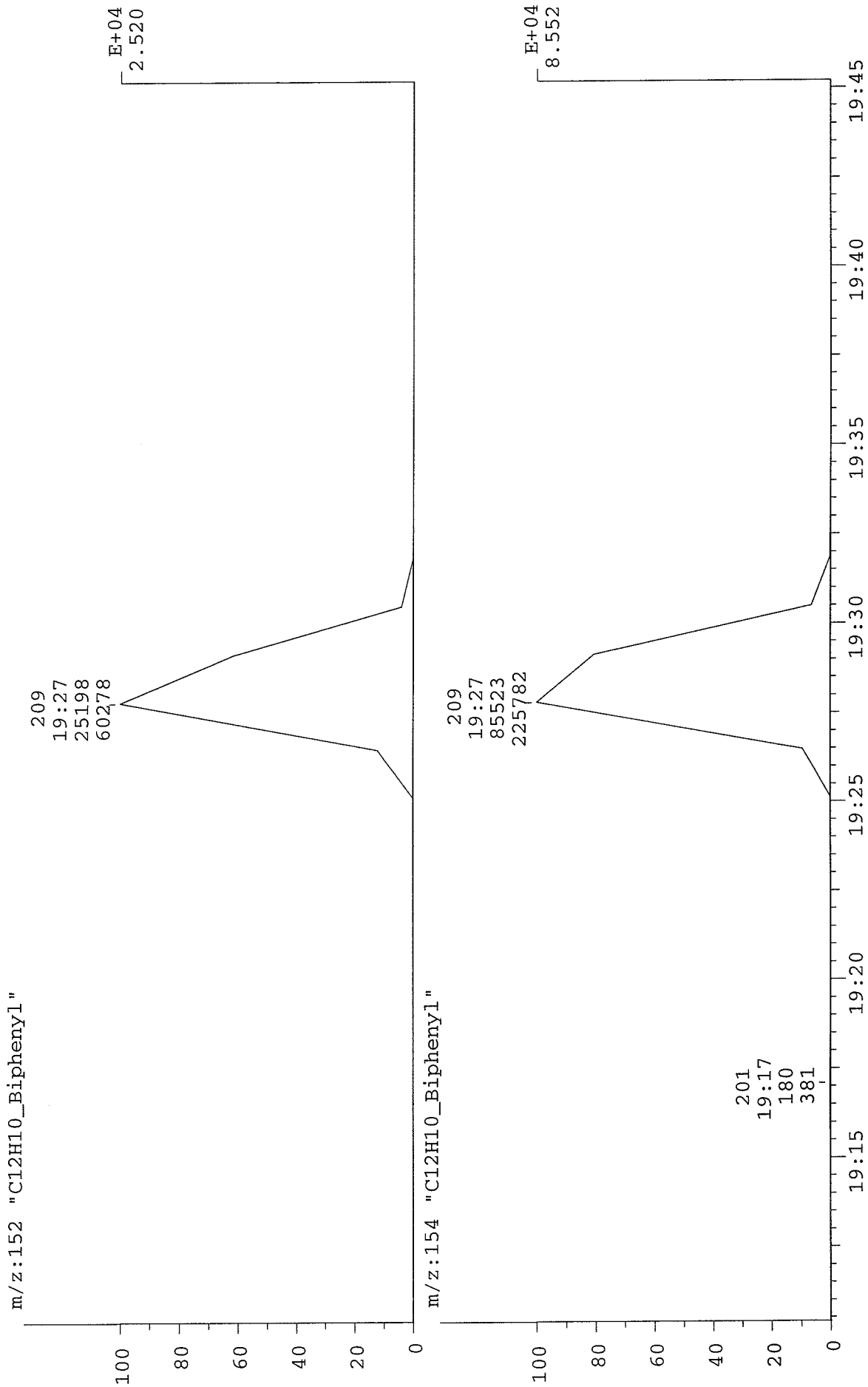
CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384
Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: icv060405
 Samp: WO=2904:79 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wmdw: 196 > 222
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

05-APR-06 Elapse: 42:06 1369
 Start : 22:28:00 1384
 Study : 3377:01 ICV
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369

Start : 22:28:00 1384

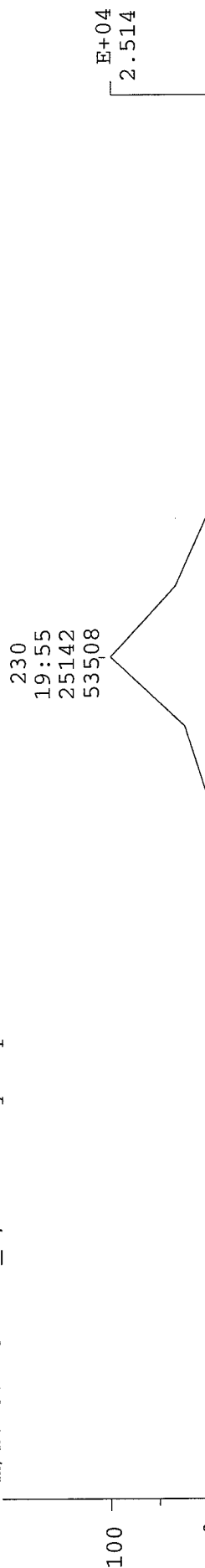
Study : 3377:01 ICV

Inlet :

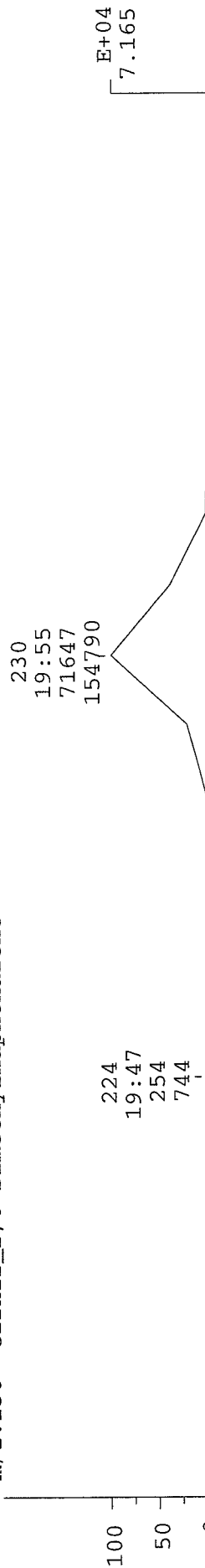
Masses: 0 > 308

Label : -2, 3.0

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



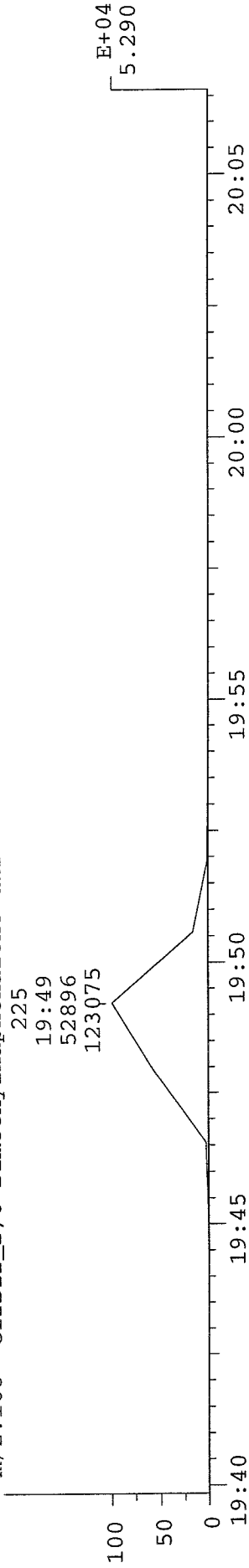
m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"



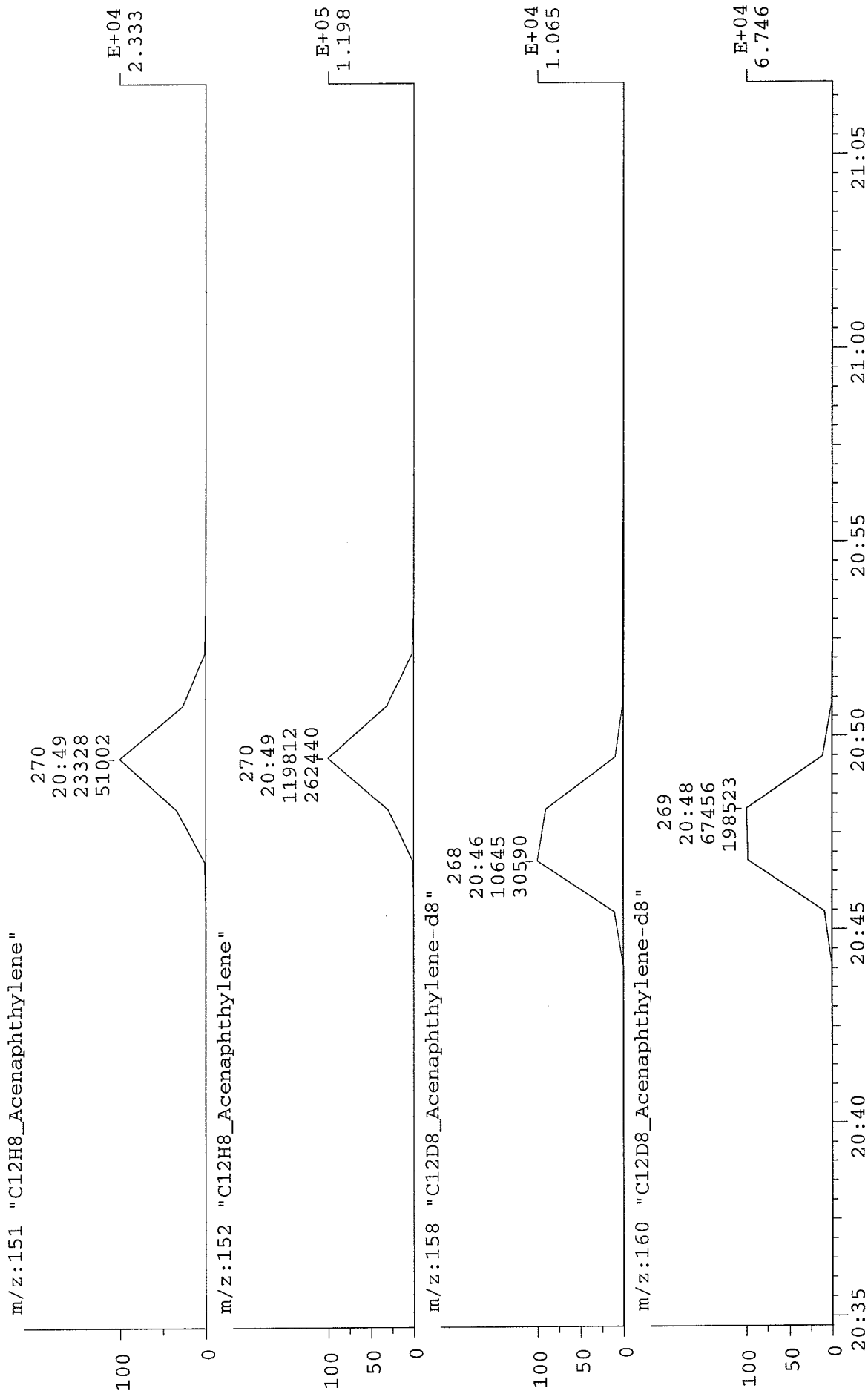
m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384

Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405i Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 283 > 307
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369

Start : 22:28:00 1384

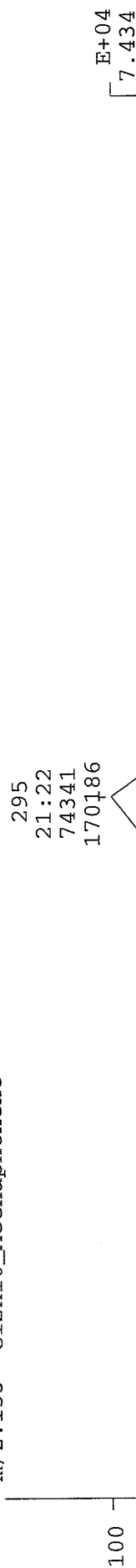
Study : 3377:01 ICV

Inlet :

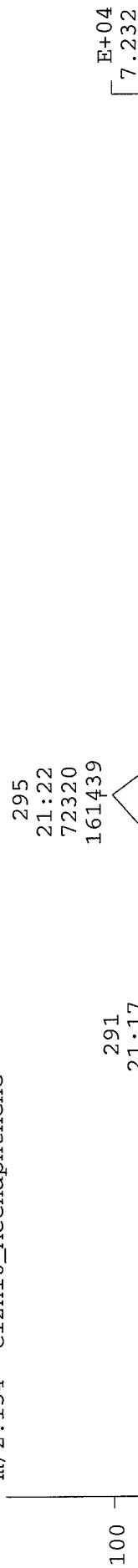
Masses: 0 > 308

Label : -2, 3.0

m/z:153 "C12H10_Acenaphthene"



m/z:154 "C12H10_Acenaphthene"



m/z:163 "C12D10_Acenaphthene"



m/z:164 "C12D10_Acenaphthene"



CHRO: icv060405
Samp: WO=2904:79 Meth=YAL Dil=1 1369
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4 1384
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06

Elapse: 42:06

Start : 22:28:00

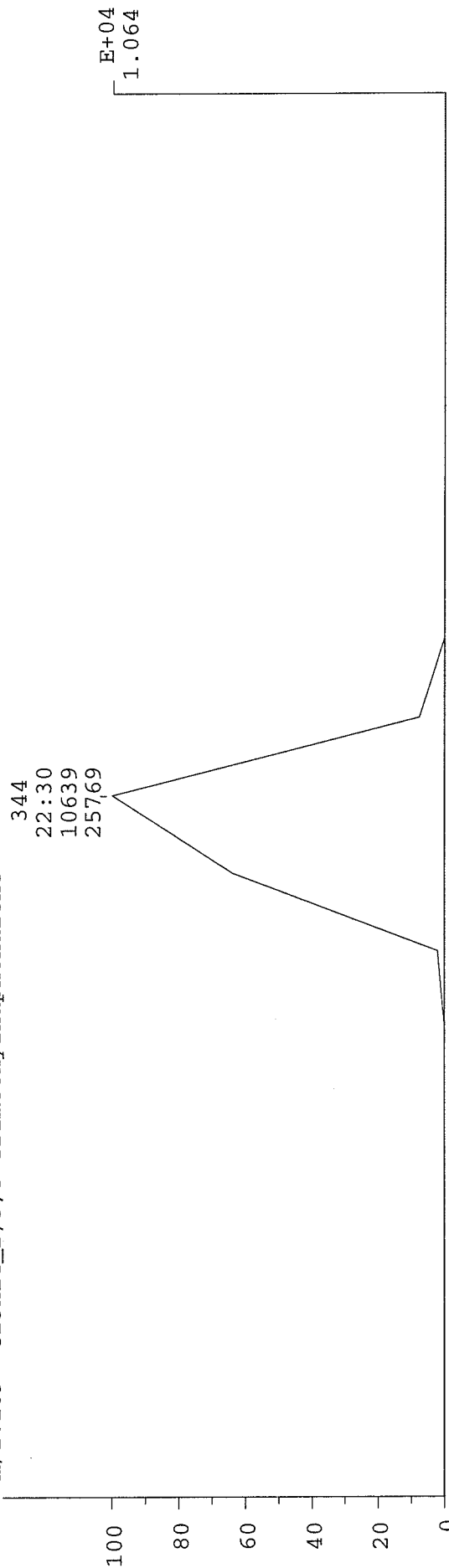
Study : 3377:01 ICV

Inlet :

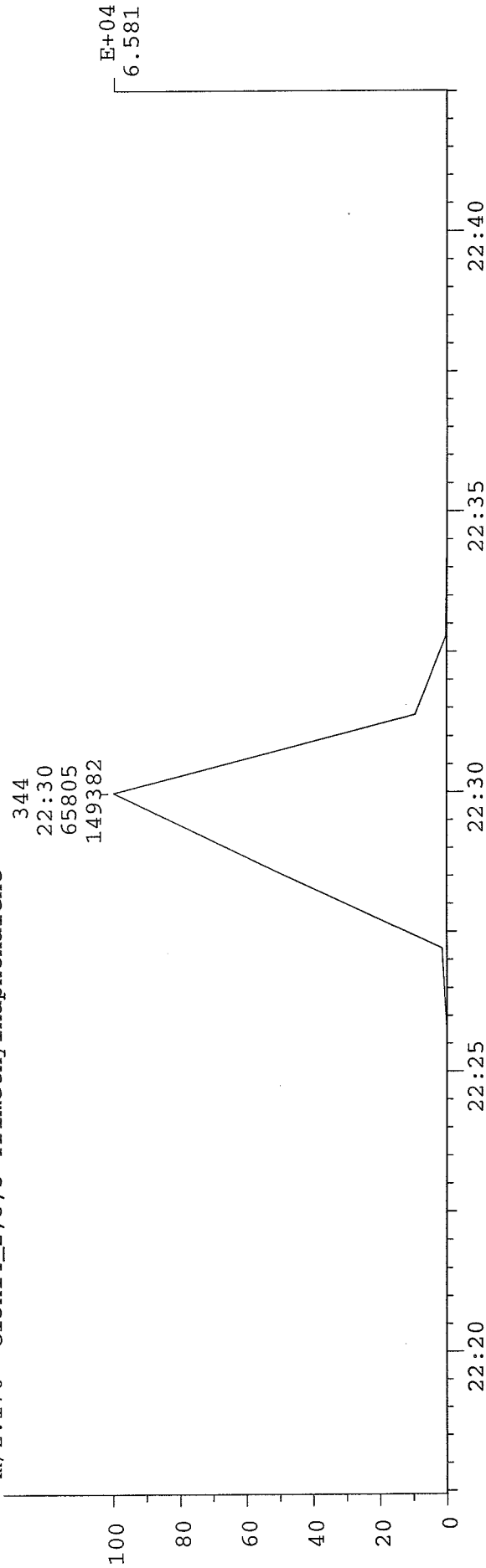
Masses: 0 > 308

Label : -2, 3.0

m/z:169 "C13H14_2,3,5-Trimethylnaphthalene"

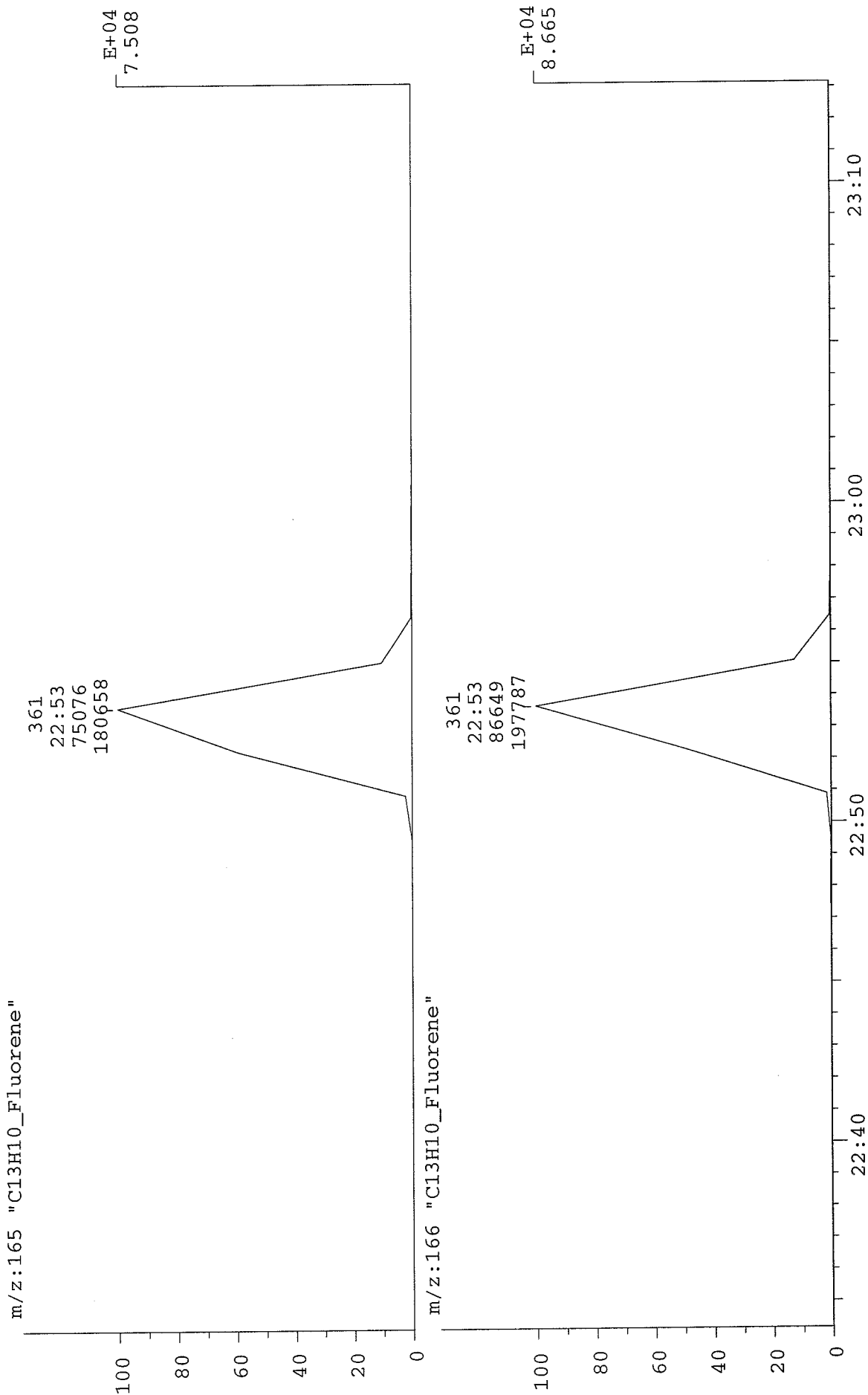


m/z:170 "C13H14_2,3,5-Trimethylnaphthalene"



CHRO: icv060405
 Samp: WO=2904:79 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 347 > 375
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

05-APR-06 Elapse: 42:06 1369
 Start : 22:28:00 1384
 Study : 3377:01 ICV
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384
Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0

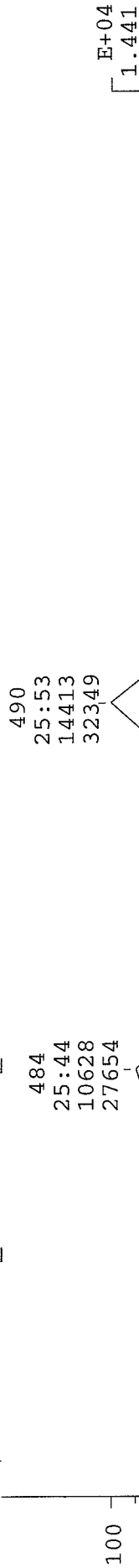
m/z:176 "C14H10_Phenanthrene_Anthracene"



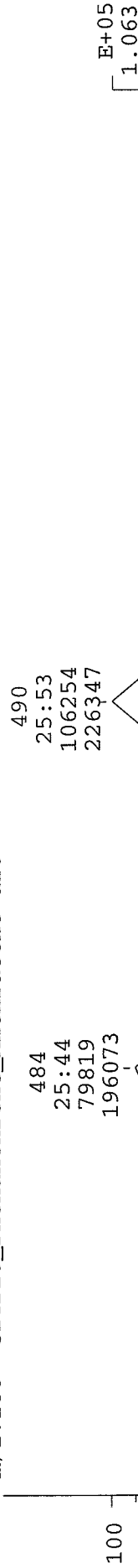
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



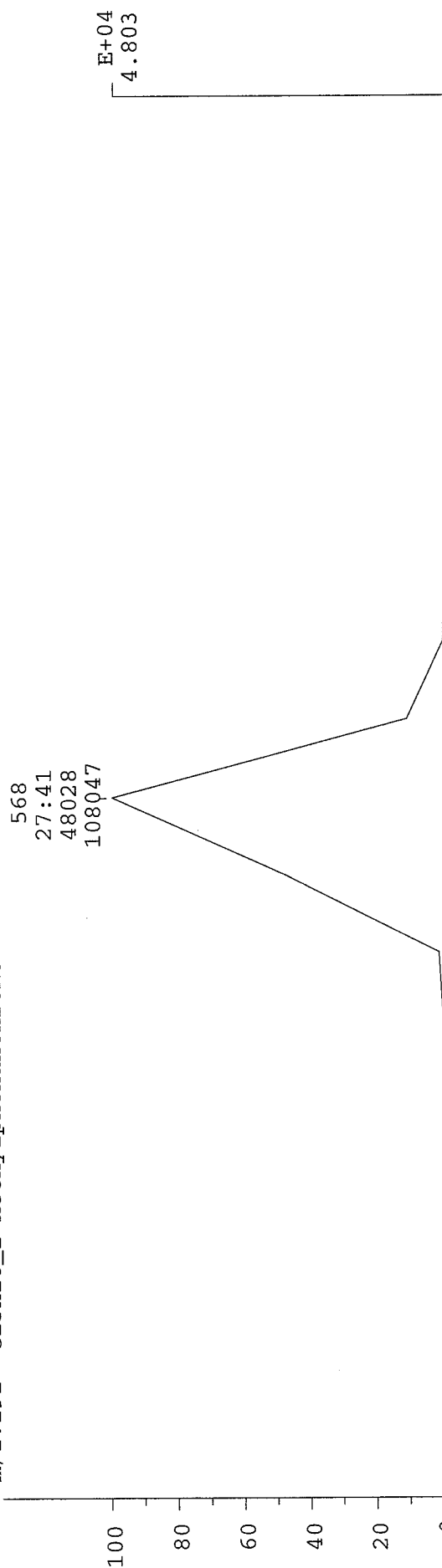
m/z:188 "C14D10_Phenanthrene_Anthracene-d10"



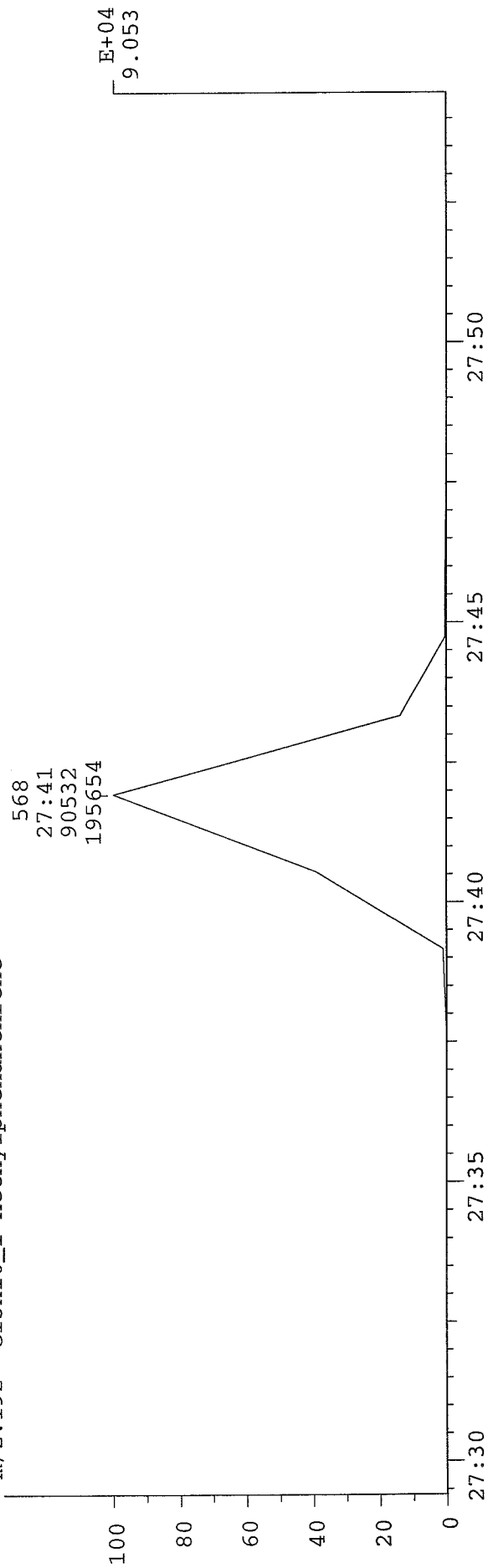
CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384
Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 648 > 725
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384
Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:200 "C16H10_Fluoranthene_Pyrene"



m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 " " C16D10_Fluoranthene_Pyrene-d10



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



CHRO: icv060405
Samp: W0=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 916 > 945
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 42:06 1369

Start : 22:28:00 1384

Study : 3377:01 ICV

Inlet :

Masses: 0 > 308

Label : -2, 3.0

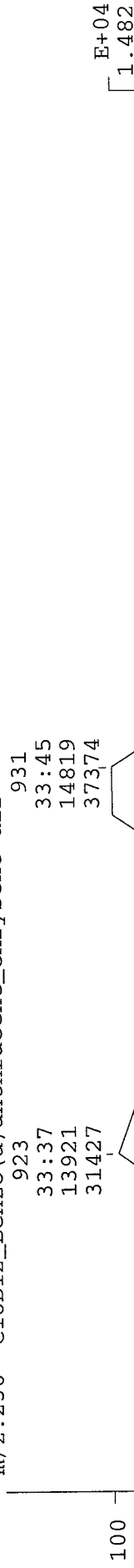
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



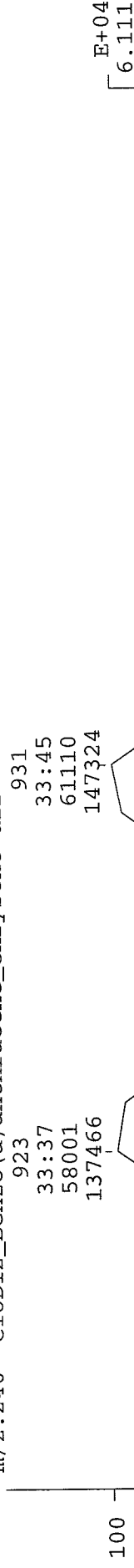
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"



33:55

33:50

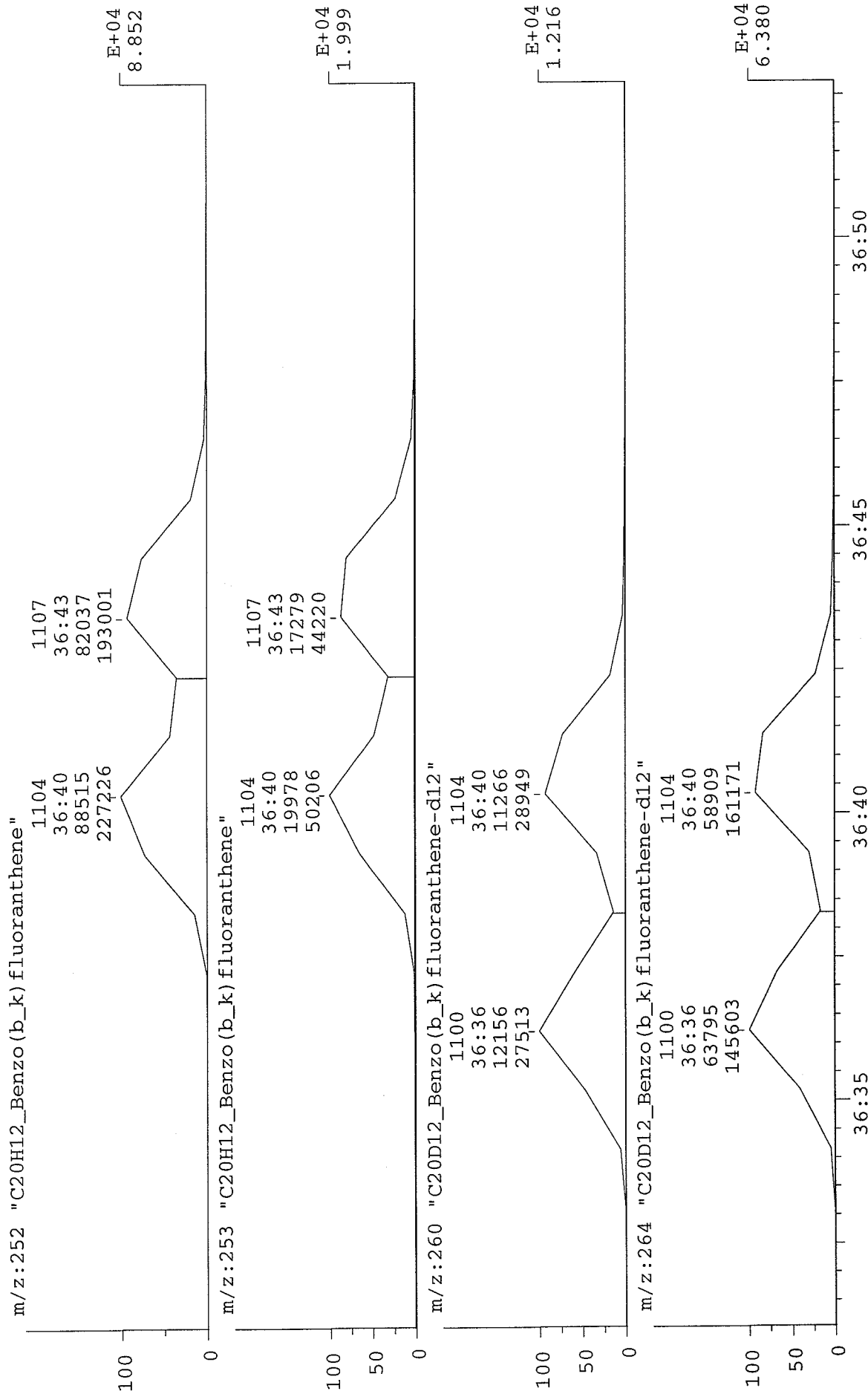
33:45

33:40

33:35

CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1095 > 1116
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384
Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0

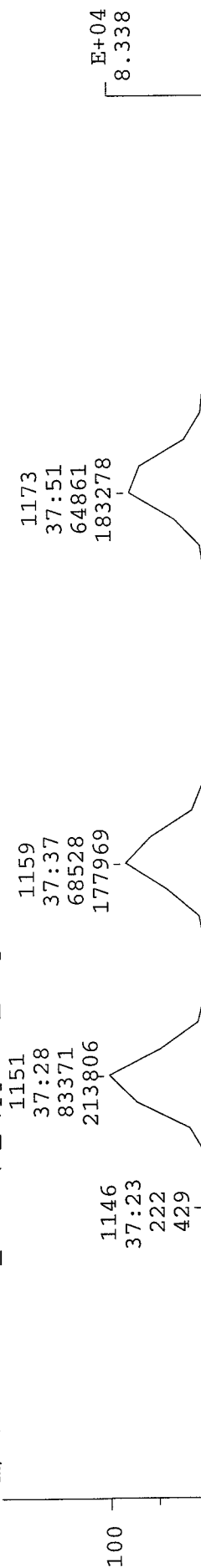


CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1135 > 1188
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

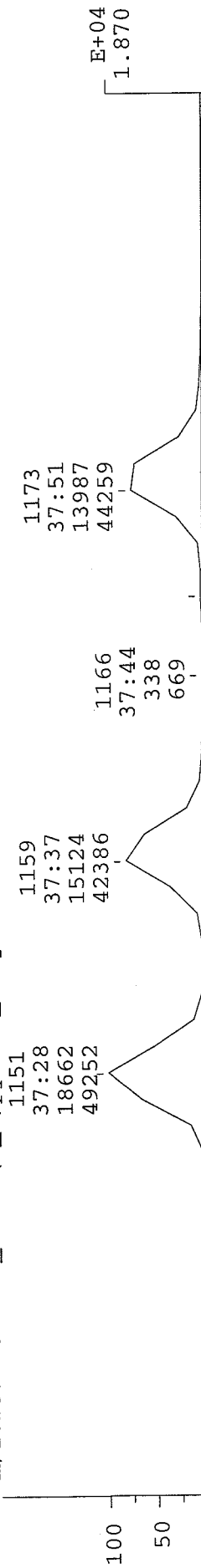
05-APR-06 Elapse: 42:06 1369
Start : 22:28:00 1384

Study : 3377:01 ICV
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



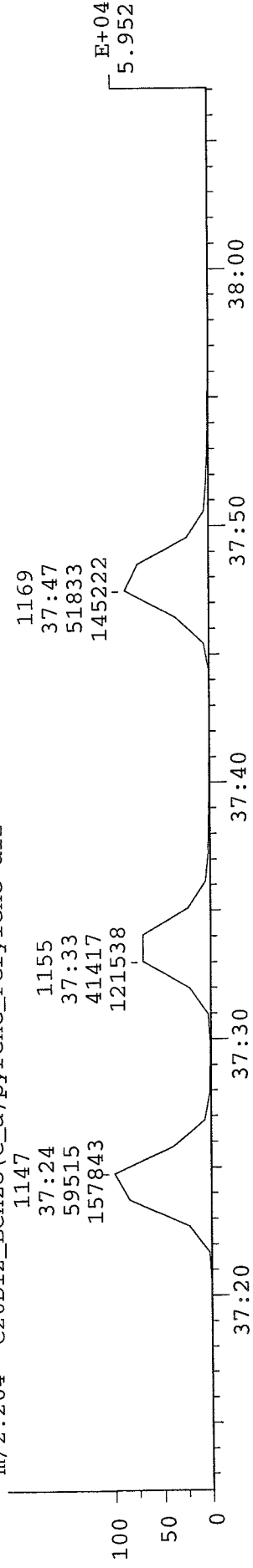
m/z:253 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"

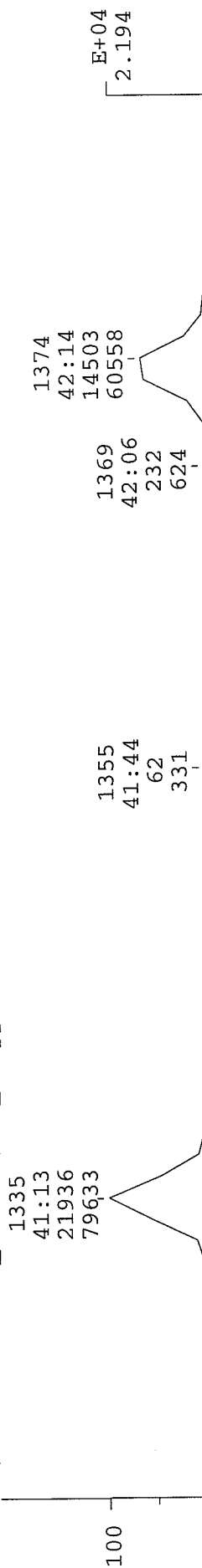


CHRO: icv060405
 Samp: W0=2904:79 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1321 > 1387
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

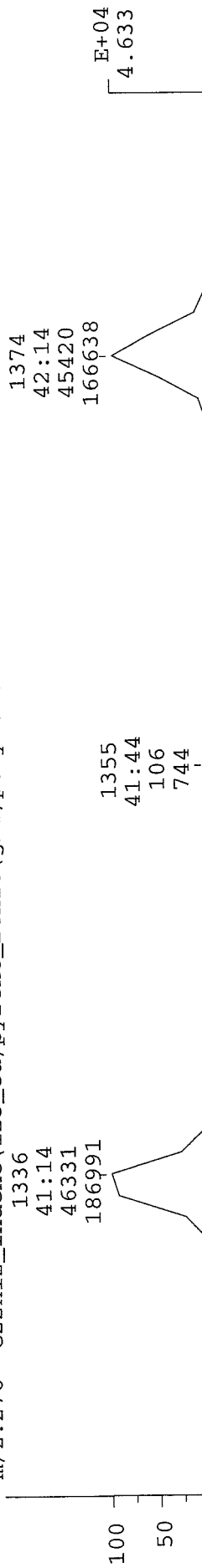
05-APR-06 Elapse: 42:06 1369
 Start : 22:28:00 1384

Study : 3377:01 ICV
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

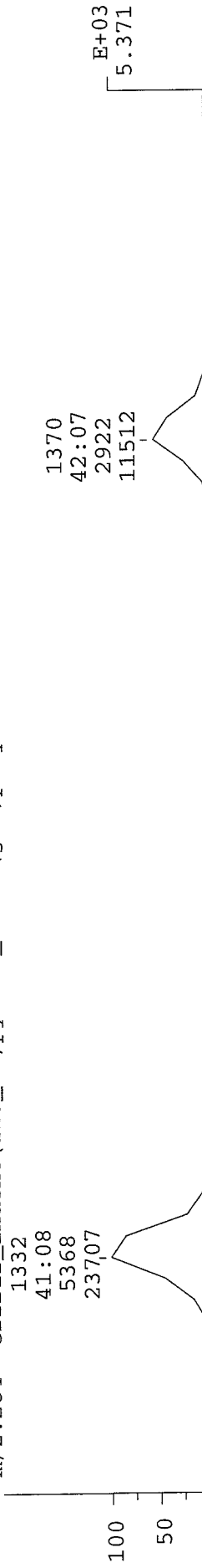
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



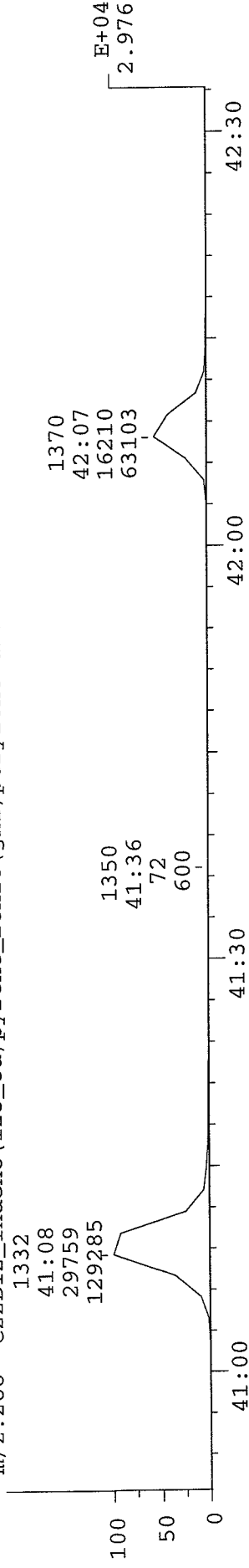
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



CHRO: icv060405
Samp: WO=2904:79 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060405I Ccal=20060405i4
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

05-APR-06 Elapse: 42:06 1369

Start : 22:28:00 1384

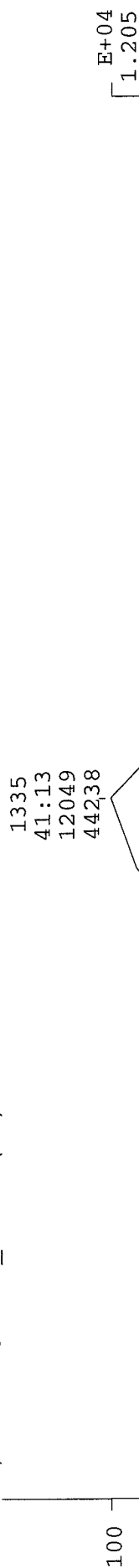
Study : 3377:01 ICV

Inlet :

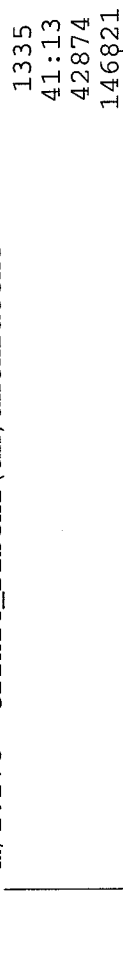
Masses: 0 > 308

Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



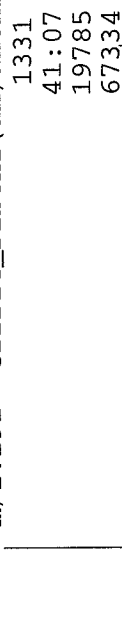
m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: ICV0405.D
 Date Acquired: 5 Apr 2006 10:28 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: ICV060405
 Misc Info: Mth=DFTPP Single Step GC Injection;Vol=2.0...
 Vial Number: 9
 Sample Mult: 1
 Sample Amount: 0
 Exp. Barcode:
 Act. Barcode:

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

Beginning Export Process Thu Apr 06 13:46:17 2006
 d:\cdf\files\ICV0405.CDF Translated at Thu Apr 06 13:46:17 2006 Elapsed: 1 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Thu Apr 6 08:13:02 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/icv0405.dat
 NetCDF File (input): /usr/users/hp/data/icv0405.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 ...

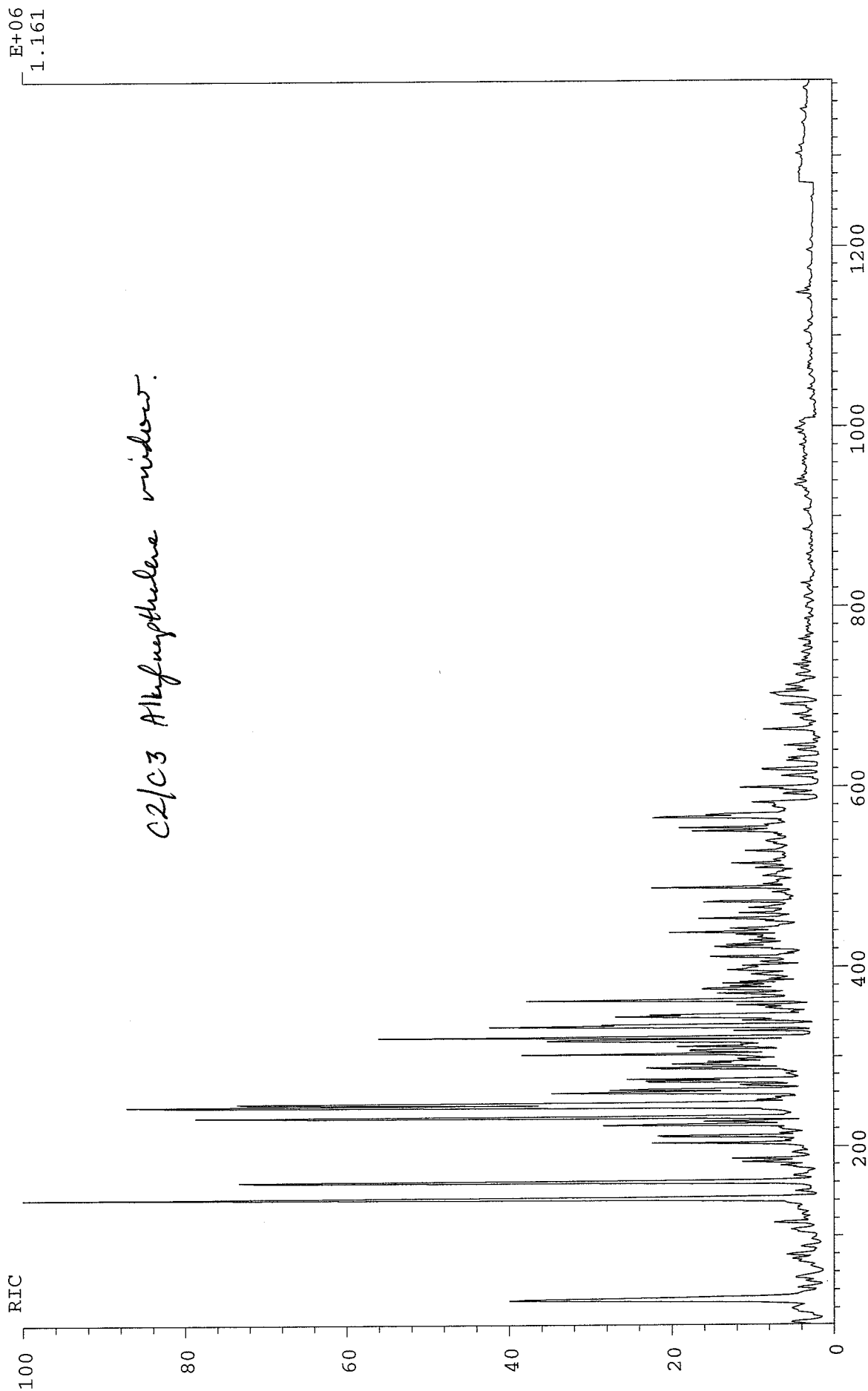
Finished converting the netCDF file!
 ICIS cdf2dat - Finished Conversion: Thu Apr 6 08:13:02 EDT 2006

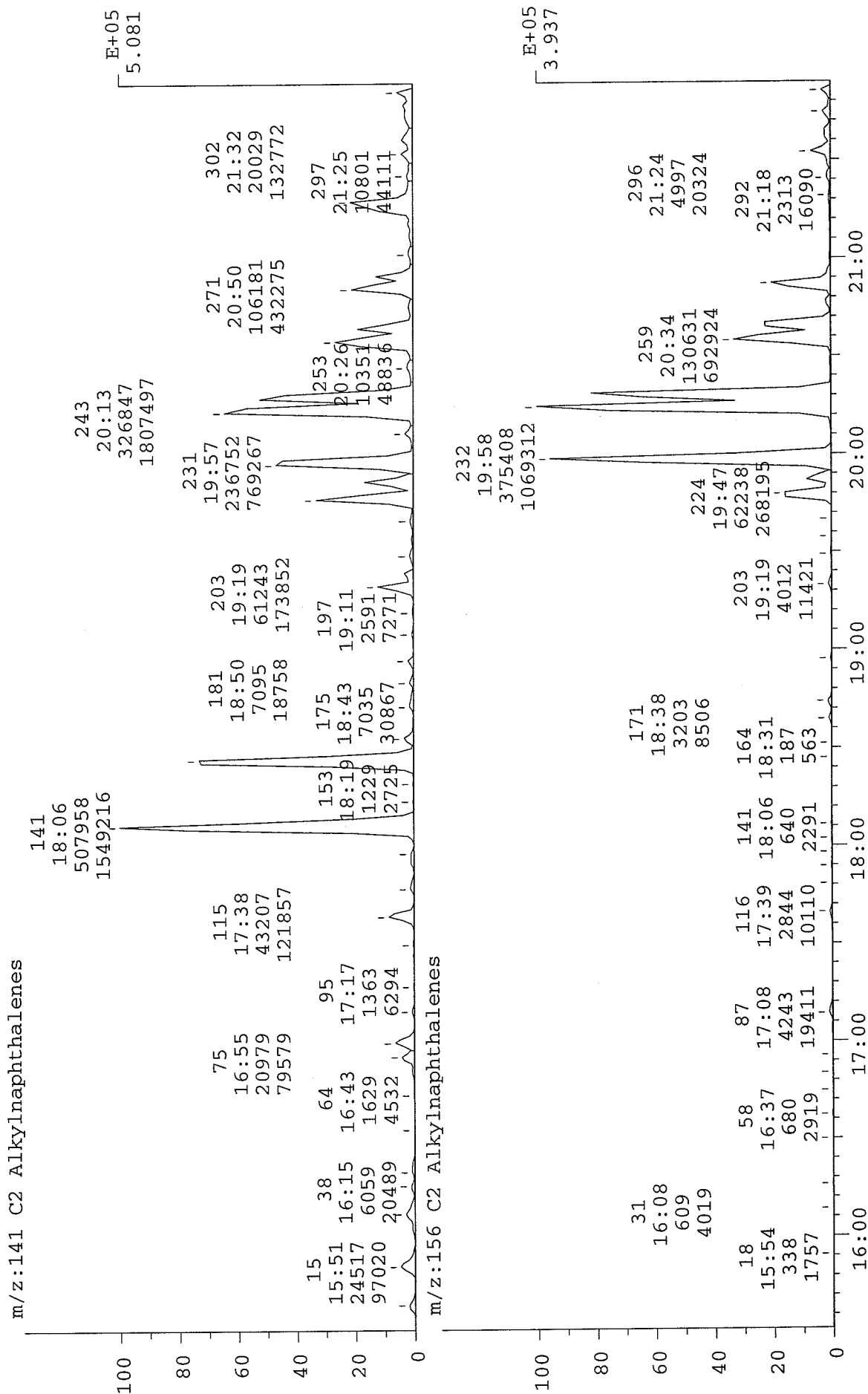
# 1	11:00 min	7:30 min	18:30 min	1.00 sec
# 2	18:30 min	3:30 min	22:00 min	1.00 sec
# 3	22:00 min	6:30 min	28:30 min	1.00 sec
# 4	28:30 min	6:30 min	35:00 min	1.00 sec
# 5	35:00 min	4:00 min	39:00 min	1.00 sec
# 6	39:00 min	12:00 min	51:00 min	1.00 sec

CHRO: an0405
Samp: AN060405
Comm: Mth=DFTPP Single Step GC Injection; Vol=2.0...
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: Client: STL Knoxville
Peak: 100.00 ppm
Area: 5, 0.50, 0
Disp: Height Area

Elapse: 40:59
Start : 24:01:00
Study : SIM60ML.M
Inlet :
Masses: 0 > 308
Label : 0, 0.0

1326
1384
Lent: J 4/7/06
Qc JMC 4/10/06





CHRO: an0405
 Samp: AN060405
 Comm: Mth=DFTPP Single Step GC Injection;Vol=2.0...
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: Client: STL Knoxville
 Peak: 100.00 ppm
 Area: 5, 0.50, 15
 Disp: Height Area

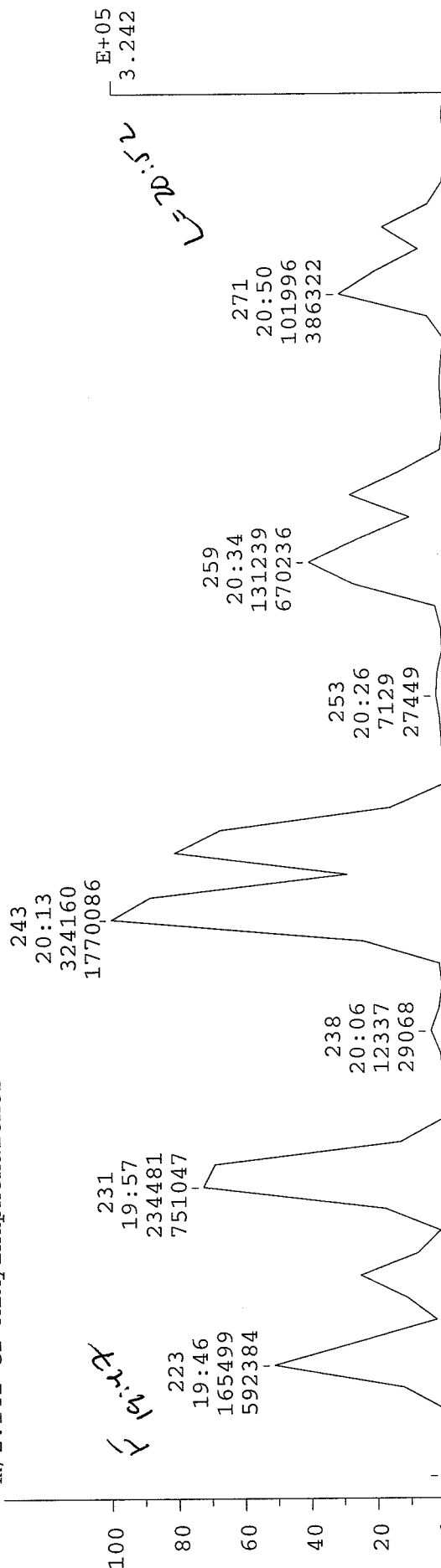
05-APR-06

Elapse: 21:01.5 279
 Start : 24:01:00 1384

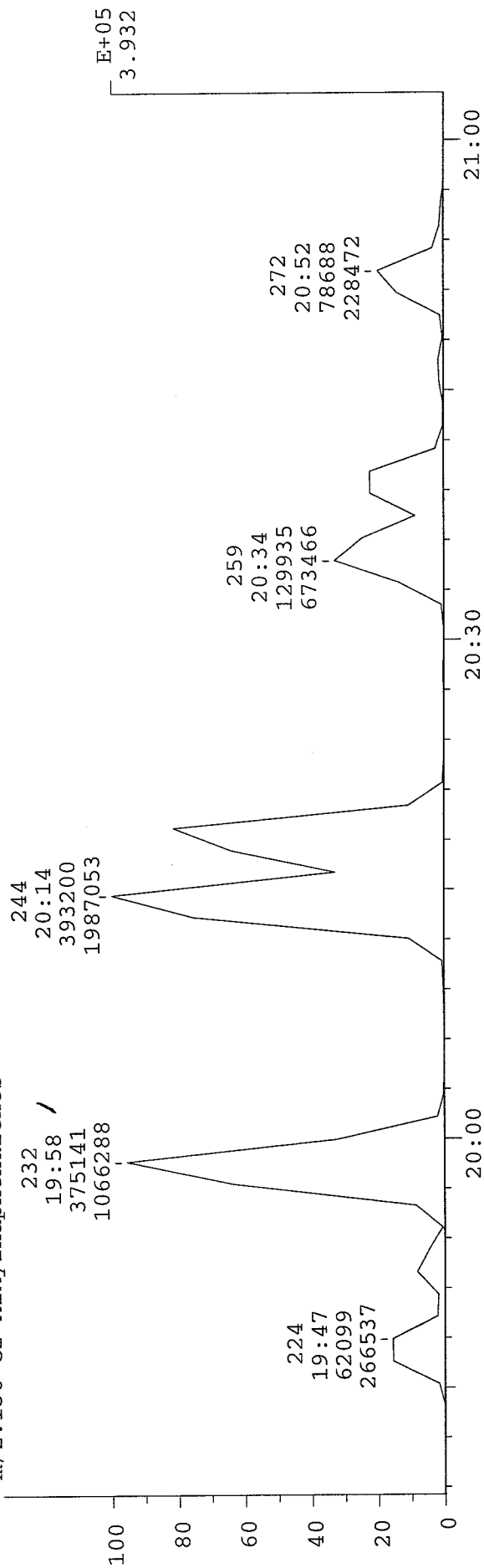
Study : SIM60ML.M

Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:141 C2 Alkyl naphthalenes



m/z:156 C2 Alkyl naphthalenes

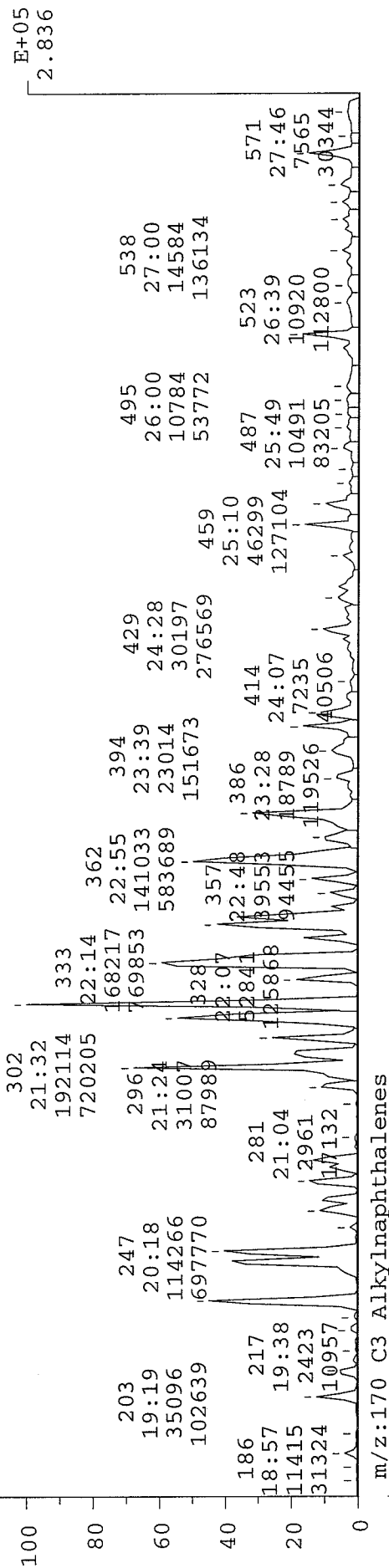


CHRO: an0405
Samp: AN060405
Comm: Mth=DFTPP Single Step GC Injection; Vol=2.0...
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: Client: STL Knoxville
Peak: 100.00 ppm
Area: 5, 0.50, 15
Disp: Height Area

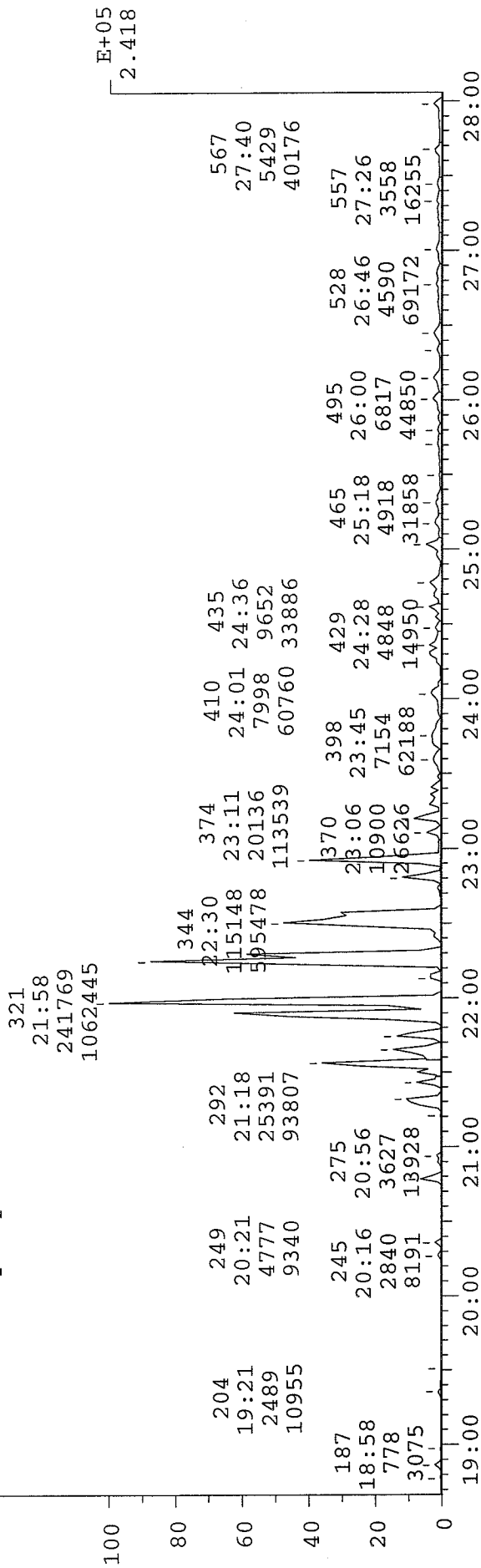
Elapse: 21:01.5 279
Start : 24:01:00 1384

Study : SIM60ML.M
Inlet :
Masses : 0 > 308
Label : -2, 3.0

m/z:155 C3 Alkyl naphthalenes



m/z:170 C3 Alkyl naphthalenes

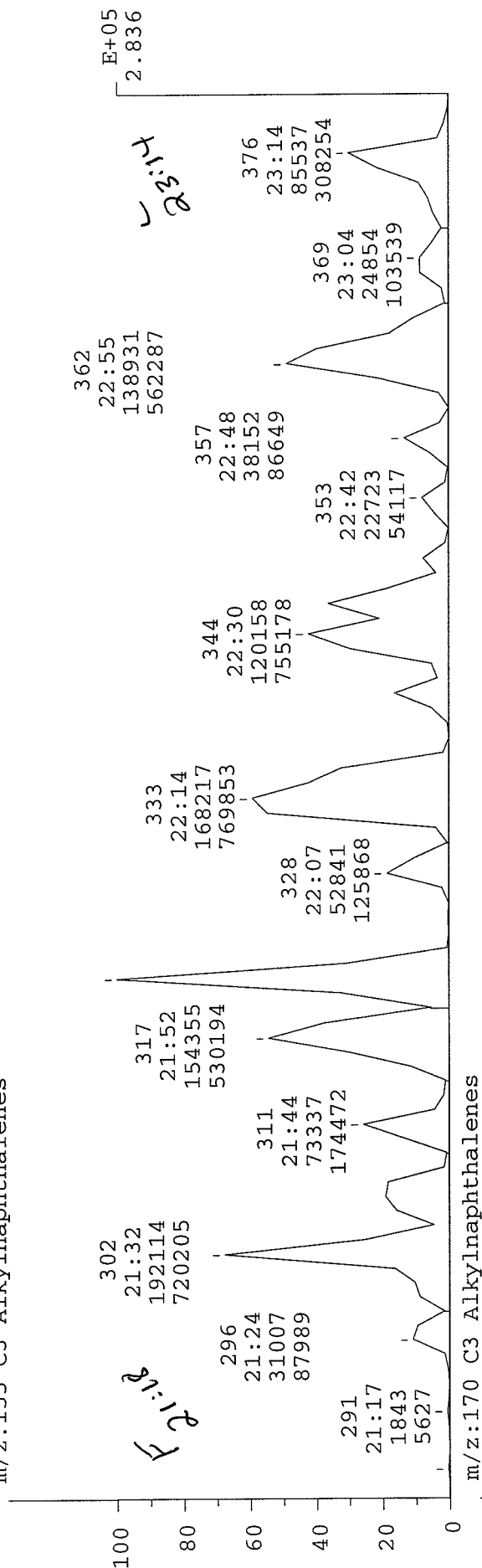


CHRO: an0405
 Samp: AN060405
 Comm: Mth=DFTPP Single Step GC Injection;Vol=2.0...
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: Client: STL Knoxville
 Peak: 100.00 ppm
 Area: 5, 0.50, 15
 Disp: Height Area

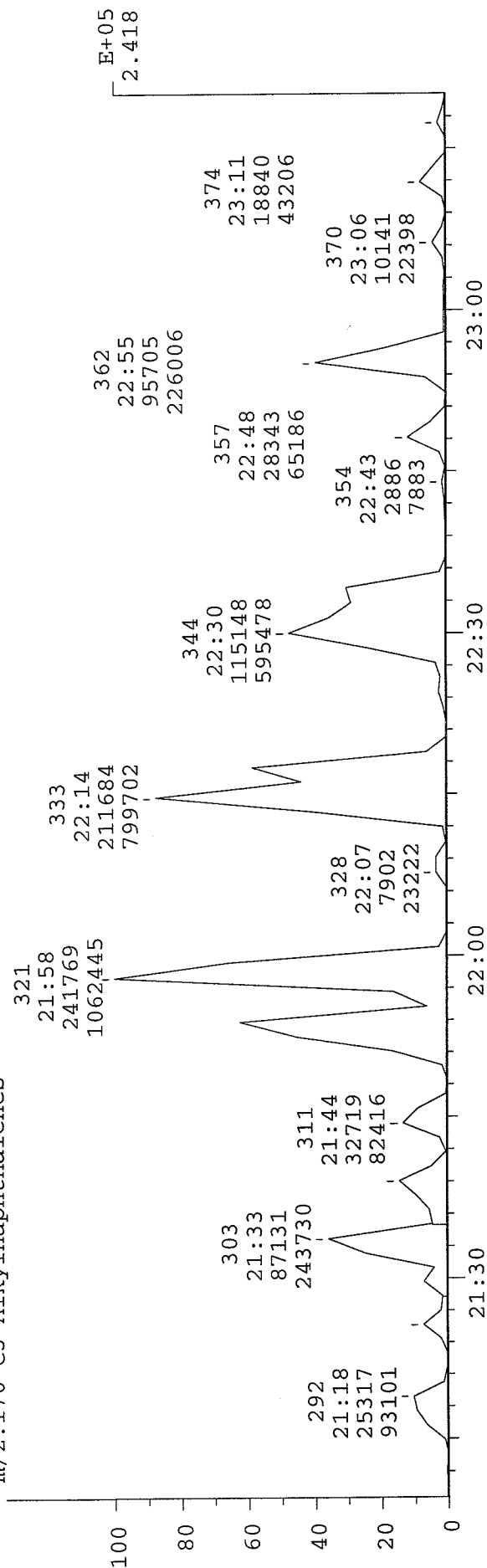
05-APR-06 Elapse: 21:01.5 279
 Start : 24:01:00 1384

Study : SIM60ML.M
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:155 C3 Alkyl naphthalenes



m/z:170 C3 Alkyl naphthalenes

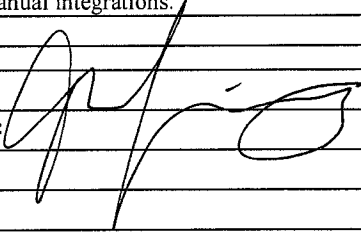


STL Knoxville, LRMS-SIM GC/MS Continuing Calibration Review / Narrative Checklist
Method: LRPAH PAHs and Selected SVOCs - KNOX-ID-0016, Revision 4

4082

Analysis Date:	4/13/06	CCAL Batch/ Scan Name:	2006041352	Instrument:	H2A	ICAL Batch/ Scan Name:	200604051	Scanned ☐
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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 $\leq 25\%$ of the smaller peak? (m/z 252)		✓			✓
5. Is the height of the valley between anthracene and phenanthrene (m/z 178) $\leq 25\%$ of the smaller peak?		✓			✓
6. Is the signal/noise ratio for all natives and labeled analytes $\geq 10:1$ ($\geq 3:1$ allowed for confirmation ions for PAH $\geq C16$)		✓			✓
7. Is the %D or drift $\leq 30\%$ 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?	✓	to 4/13/06			✓
11. Have manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓	to 4/13/06			✓
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:	4/18/06	2nd Level Reviewer :	UMIC	Date:	4/19/06
Comments:				Comments:			

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT H2A RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
4.13.06	17:35	on	MeCl ₂	rinse01	OK	-	QC		flush
4.13.06	19:58	on	2904:28	dfy04136	OK	-	time		DFTPP time.
4.13.06	20:13	on	MeCl ₂	rinse02	OK	-	QC		flush
4.13.06	20:30	on	3377:01-4	y041352	OK	-	ver		PATH ver
4.13.06	21:19	on	H2WS41AA	yh2wsq.b	OK	MR2	QC		H6D100000-000B
4.13.06	22:09	on	H2WS41AA	yh2wsq.b	OK	MR2	QC		H6D100000-051B
4.13.06	22:59	on	H2WS41AC	yh2wsq.c	OK	MR2	QC		H6D100000-060C
4.13.06	23:49	on	H2WS41AD	yh2wsq.d	OK	MR2	QC		-060L
4.13.06	00:39	on	H2WS41AC	yh2wsq.c	OK	MR2	QC		H6D100000-051C
4.13.06	01:28	on	H2WS41AD	yh2wsq.d	OK	MR2	QC		-051L
4.13.06	02:15	on	MeCl ₂	rinse03	OK	-	QC		flush
4.13.06	02:32	on	H2H2M1AA	yh2h2m	OK	MR2	SAM		H6D030241-002
4.13.06	03:22	on	H2H2W1AA	yh2h2w	OK	MR2	SAM		-005
4.13.06	04:12	on	H2H211AA	yh2h21	OK	MR2	SAM		-008
4.13.06	05:02	on	H2H231AA	yh2h23	OK	MR2	SAM		-010
4.13.06	05:52	on	H2H251AA	yh2h25	OK	MR2	SAM		-012
4.13.06	06:42	on	H2H271AA	yh2h27	OK	MR2	SAM		-014
4.13.06	18:53	on	2904:28	dfy0418	OK	-	time		DFTPP time
4.13.06	19:24	on	3377:01-4	y06041852	OK	-	ver		PATH ver.
4.18.06	19:07	on	MeCl ₂	rinse05	OK	-	QC		flush
4.18.06	20:14	on	H2WS41AC	yh2wsq.c	OK	MR2	QC		H6D100000-063C
4.18.06	21:04	on	H2WS41AD	yh2wsq.d	OK	MR2	QC		-063L
4.18.06	21:51	on	MeCl ₂	rinse06	OK	-	QC		flush
4.18.06	22:05	on	MeCl ₂	rinse07	OK	-	QC		
4.18.06	22:20	on	MeCl ₂	rinse08	OK	-	QC		
4.18.06	22:37	on	H2WS41AA	yh2wsq.b	OK	MR2	QC		H6D100000-063B
4.18.06	23:27	on	H2H281AA	yh2h28	OK	MR2	SAM		H6D030241-015
4.19.06	00:17	on	H2H241AA	yh2h24	OK	MR2	SAM		-011
4.19.06	01:07	on	H2H201AA	yh2h20	OK	MR2	SAM		-007
4.19.06	01:56	on	H2H2A1AA	yh2h2a	OK	MR2	SAM		-001
4.19.06	02:46	on	H2H2V1AA	yh2h2v	OK	MR2	SAM		-004
4.19.06	03:36	on	H2H2T1AA	yh2h2t	OK	MR2	SAM		-003

Read and Understood by:

Date: _____

PAH's by LRMS Extended List

CCAL ID: 16934 - Y060413S2

ICAL Date: 04/05/06

CCAL Filename: y060413s2

Method: YA1 - DXLPAH

CCAL Sample ID: 3377:01_4

Instrument: H2A

CCAL Result Dir: /20060413s2/y060413s2.d

Column SN: 695821

CCAL Date/Time: 04/13/06 20:30

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	505.2	1.748	1.766	1.0	30.0	True
Naphthalene	128	500.0	487.7	1.211	1.181	-2.5	30.0	True
2-Methylnaphthalene	142	500.0	480.6	1.269	1.219	-3.9	30.0	True
2-Methylnaphthalene-d10	152	500.0	525.3	1.104	1.160	5.1	30.0	True
1-Methylnaphthalene	142	500.0	483.6	1.365	1.320	-3.3	30.0	True
1-Methylnaphthalene-d10	152	500.0	525.2	0.958	1.007	5.0	30.0	True
Biphenyl	154	500.0	485.3	1.533	1.488	-2.9	30.0	True
2,6-Dimethylnaphthalene	156	500.0	480.4	1.249	1.200	-3.9	30.0	True
2,6-Dimethylnaphthalene-d12	168	500.0	530.7	0.977	1.037	6.1	30.0	True
Acenaphthylene	152	500.0	484.0	1.244	1.204	-3.2	30.0	True
Acenaphthylene-d8	160	500.0	539.8	1.548	1.671	8.0	30.0	True
Acenaphthene	154	500.0	478.1	0.762	0.729	-4.4	30.0	True
2,3,5-Trimethylnaphthalene	170	500.0	485.0	1.127	1.093	-3.0	30.0	True
Fluorene d-10	176	500.0	483.7	0.837	0.810	-3.3	30.0	True
Fluorene-C13	172	500.0	477.9	0.796	0.761	-4.4	30.0	True
Fluorene	166	500.0	485.7	0.915	0.889	-2.9	30.0	True
Phenanthrene-d10	188	500.0	535.6	0.753	0.807	7.1	30.0	True
Phenanthrene	178	500.0	485.8	1.216	1.182	-2.8	30.0	True
Anthracene-d10	188	500.0	530.9	0.655	0.695	6.2	30.0	True
Anthracene	178	500.0	498.3	1.059	1.055	-0.3	30.0	True
1-Methylphenanthrene	192	500.0	483.4	0.870	0.841	-3.3	30.0	True
Fluoranthene-d10	212	500.0	539.1	0.727	0.783	7.8	30.0	True
Fluoranthene	202	500.0	486.0	1.334	1.296	-2.8	30.0	True
Pyrene	202	500.0	480.4	1.369	1.315	-3.9	30.0	True
Terphenyl-d14	244	500.0	471.9	0.796	0.751	-5.6	30.0	True
Benzo(a)Anthracene-d12	240	500.0	532.6	0.521	0.555	6.5	30.0	True
Benzo(a)anthracene	228	500.0	478.8	1.454	1.392	-4.2	30.0	True
Chrysene-d12	240	500.0	526.7	0.557	0.586	5.3	30.0	True
Chrysene	228	500.0	484.2	1.363	1.320	-3.2	30.0	True
Benzo(b)Fluoranthene-d12	264	500.0	561.4	0.847	0.951	12.3	30.0	True
Benzo(k)Fluoranthene-d12	264	500.0	509.2	1.002	1.021	1.8	30.0	True
Benzo(b)fluoranthene	252	500.0	439.7	1.508	1.326	-12.1	30.0	True
Benzo(k)fluoranthene	252	500.0	518.5	1.136	1.179	3.7	30.0	True
Benzo(e)pyrene	252	500.0	474.3	1.589	1.507	-5.1	30.0	True
Benzo(a)Pyrene-d12	264	500.0	537.6	0.737	0.792	7.5	30.0	True
Benzo(a)pyrene	252	500.0	478.8	1.333	1.276	-4.2	30.0	True
Perylene-d12	264	500.0	539.6	0.887	0.957	7.9	30.0	True
Perylene	252	500.0	478.7	1.178	1.128	-4.3	30.0	True
Dibenz(ah)Anthracene-d14	292	500.0	545.0	0.405	0.441	9.0	30.0	True
Indeno(1,2,3-cd)pyrene-d12	288	500.0	548.1	0.779	0.854	9.6	30.0	True
Indeno(1,2,3-cd)pyrene	276	500.0	474.1	1.297	1.230	-5.2	30.0	True
Dibenz(a,h)anthracene	278	500.0	471.9	2.059	1.943	-5.6	30.0	True
Benzo(ghi)Perylene-d12	288	500.0	550.3	0.559	0.616	10.1	30.0	True
Benzo(ghi)perylene	276	500.0	472.2	1.698	1.604	-5.6	30.0	True

*A 4/24/06
11/11/2006*

PAH's by LRMS Extended List

CCAL ID: 16934 - Y060413S2

ICAL Date: 04/05/06

CCAL Filename: y060413s2

Method: YAl - DXLPAH

CCAL Sample ID: 3377:01_4

Instrument: H2A

CCAL Result Dir: /20060413s2/y060413s2.d

Column SN: 695821

CCAL Date/Time: 04/13/06 20:30

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	15:58	15:58	0	0.7503	0.7502	0.0001
Naphthalene	16:02	16:01	-1	1.0036	1.0031	0.0004
2-Methylnaphthalene	18:04	18:04	0	1.0048	1.0046	0.0001
2-Methylnaphthalene-d10	17:59	17:59	0	0.8448	0.8449	-0.0001
1-Methylnaphthalene	18:24	18:23	-1	1.0055	1.0046	0.0009
1-Methylnaphthalene-d10	18:18	18:18	0	0.8598	0.8598	0.0000
Biphenyl	19:27	19:27	0	1.0818	1.0816	0.0003
2,6-Dimethylnaphthalene	19:56	19:56	0	1.0060	1.0059	0.0001
2,6-Dimethylnaphthalene-d12	19:49	19:49	0	0.9310	0.9311	-0.0001
Acenaphthylene	20:49	20:49	0	1.0009	1.0024	-0.0015
Acenaphthylene-d8	20:48	20:46	-2	0.9772	0.9757	0.0015
Acenaphthene	21:23	21:23	0	1.0280	1.0297	-0.0016
2,3,5-Trimethylnaphthalene	22:30	22:28	-2	1.1354	1.1337	0.0017
Fluorene d-10	22:48	22:48	0	0.8856	0.8866	-0.0010
Fluorene-C13	22:53	22:53	0	0.8887	0.8898	-0.0012
Fluorene	22:53	22:53	0	0.8888	0.8898	-0.0011
Phenanthrene-d10	25:45	25:43	-2	0.8568	0.8558	0.0010
Phenanthrene	25:49	25:47	-2	1.0026	1.0026	0.0000
Anthracene-d10	25:53	25:53	0	0.8613	0.8613	-0.0001
Anthracene	25:56	25:56	0	1.0073	1.0084	-0.0011
1-Methylphenanthrene	27:42	27:42	0	1.0757	1.0771	-0.0014
Fluoranthene-d10	29:22	29:21	-1	0.9773	0.9767	0.0006
Fluoranthene	29:25	29:24	-1	1.0017	1.0017	0.0000
Pyrene	30:06	30:06	0	1.0250	1.0256	-0.0006
Terphenyl-d14	30:31	30:31	0	1.0393	1.0398	-0.0004
Benzo(a) Anthracene-d12	33:37	33:37	0	1.1188	1.1187	0.0002
Benzo(a) anthracene	33:41	33:41	0	1.0019	1.0020	-0.0001
Chrysene-d12	33:45	33:44	-1	1.1230	1.1226	0.0005
Chrysene	33:49	33:48	-1	1.0020	1.0020	0.0001
Benzo(b) Fluoranthene-d12	36:36	36:36	0	0.9786	0.9790	-0.0004
Benzo(k) Fluoranthene-d12	36:40	36:40	0	0.9805	0.9808	-0.0003
Benzo(b) fluoranthene	36:40	36:39	-1	1.0018	1.0014	0.0005
Benzo(k) fluoranthene	36:43	36:43	0	1.0014	1.0014	0.0000
Benzo(e) pyrene	37:28	37:27	-1	0.9976	0.9973	0.0003
Benzo(a) Pyrene-d12	37:33	37:33	0	1.0042	1.0045	-0.0003
Benzo(a) pyrene	37:37	37:37	0	1.0016	1.0018	-0.0001
Perylene-d12	37:47	37:47	0	1.0103	1.0107	-0.0004
Perylene	37:51	37:51	0	1.0018	1.0018	0.0001
Dibenz(ah) Anthracene-d14	41:07	41:05	-2	1.0993	1.0990	0.0003
Indeno(1,2,3-cd)pyrene-d12	41:09	41:08	-1	1.1001	1.1003	-0.0002
Indeno(1,2,3-cd)pyrene	41:13	41:13	0	1.0020	1.0020	-0.0001
Dibenz(a,h) anthracene	41:13	41:11	-2	1.0025	1.0024	0.0001
Benzo(ghi) Perylene-d12	42:07	42:07	0	1.1261	1.1266	-0.0005
Benzo(ghi) perylene	42:14	42:12	-2	1.0028	1.0020	0.0008

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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 /20060413s2/y060413s2.d				Prep Date				SDG No	
Analysis ID 90105				Prep Exp Date				Date Received	
Analysis Date 4/13/2006				Matrix UNKNOWN				Date Sampled	
Analysis Time 20:30				Initial Wt/Vol				Lims Test Code	
Anal Exp Date				Extract Vol				Method DXLPAH	
Instrument H2A				Dil Factor 1.0				Code YAl	
Analyst JMN									
								Conc	
								DL	
Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	(ng/mL)	(ng/mL)
Naphthalene-d8	15:58	164250	51560	1.748	500.0	505.225487	101.05	505.225487	0.287
Naphthalene	16:01	193986	61312	1.211	500.0	487.712961	97.54	487.712961	0.140
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene					500.0			ND	0.000000
2-Methylnaphthalene	18:04	131508	46765	1.269	500.0	480.586812	96.12	480.586812	0.153
2-Methylnaphthalene-d10	17:59	107852	38758	1.104	500.0	525.345586	105.07	525.345586	0.182
1-Methylnaphthalene	18:23	123574	47560	1.365	500.0	483.637146	96.73	483.637146	0.146
1-Methylnaphthalene-d10	18:18	93612	37617	0.958	500.0	525.201671	105.04	525.201671	0.209
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	160448	69706	1.533	500.0	485.282264	97.06	485.282264	0.337
2,6-Dimethylnaphthalene	19:56	115730	53639	1.249	500.0	480.435708	96.09	480.435708	0.756
2,6-Dimethylnaphthalene-d1	19:49	96402	34386	0.977	500.0	530.697775	106.14	530.697775	0.240
C2 Alkyl naphthalenes				1.249		480.435708		480.435708	0.505
Acenaphthylene	20:49	187088	77988	1.244	500.0	484.042823	96.81	484.042823	0.0950
Acenaphthylene-d8	20:46	155410	63511	1.548	500.0	539.755782	107.95	539.755782	0.108
Acenaphthene-d10	21:17	92986	37400	1.000	500.0	500.000000	100.00	500.000000	0.234
Acenaphthene	21:23	113291	41920	0.762	500.0	478.139427	95.63	478.139427	0.413
2,3,5-Trimethylnaphthalene	22:28	105387	36699	1.127	500.0	484.977135	97.00	484.977135	0.129
C3 Alkyl naphthalenes				1.127		484.977135		484.977135	0.0860
Fluorene d-10	22:48	128351	59772	0.837	500.0	483.693580	96.74	483.693580	0.100
Fluorene-C13	22:53	120679	50470	0.796	500.0	477.926150	95.59	477.926150	0.132
Fluorene	22:53	140924	49074	0.915	500.0	485.699977	97.14	485.699977	0.161
Phenanthrene-d10	25:43	158547	59529	0.753	500.0	535.626717	107.13	535.626717	0.119
Phenanthrene	25:47	187356	80819	1.216	500.0	485.759264	97.15	485.759264	0.104
Anthracene-d10	25:53	136602	55827	0.655	500.0	530.854585	106.17	530.854585	0.137
Anthracene	25:56	167335	79031	1.059	500.0	498.344838	99.67	498.344838	0.119
1-Methylphenanthrene	27:42	133388	46748	0.870	500.0	483.351766	96.67	483.351766	0.265
Fluoranthene-d10	29:21	153914	65718	0.727	500.0	539.056132	107.81	539.056132	0.164
Fluoranthene	29:24	199518	79880	1.334	500.0	485.954796	97.19	485.954796	0.114
Pyrene-d10	30:03	196491	83887	1.000	500.0	500.000000	100.00	500.000000	0.119
Pyrene	30:06	202419	85036	1.369	500.0	480.396830	96.08	480.396830	0.111
Terphenyl-d14	30:31	115636	58684	0.796	500.0	471.885178	94.38	471.885178	0.0239
Benzo(a) Anthracene-d12	33:37	109046	52918	0.521	500.0	532.611439	106.52	532.611439	0.257
Benzo(a) anthracene	33:41	151805	67073	1.454	500.0	478.825097	95.77	478.825097	0.114
Chrysene-d12	33:44	115235	54114	0.557	500.0	526.708034	105.34	526.708034	0.241
Chrysene	33:48	152105	67820	1.363	500.0	484.221708	96.84	484.221708	0.119
Benzo(b) Fluoranthene-d12	36:36	113318	43148	0.847	500.0	561.400861	112.28	561.400861	0.428
Benzo(k) Fluoranthene-d12	36:40	121628	52147	1.002	500.0	509.185678	101.84	509.185678	0.362
Benzo(b) fluoranthene	36:39	150237	65185	1.508	500.0	439.703815	87.94	439.703815	1.52
Benzo(k) fluoranthene	36:43	143347	58679	1.136	500.0	518.513098	103.70	518.513098	1.67
Benzo(e) pyrene-d12	37:23	119140	48267	1.000	500.0	500.000000	100.00	500.000000	0.363
Benzo(e) pyrene	37:27	142269	56314	1.589	500.0	474.340079	94.87	474.340079	1.70
Benzo(a) Pyrene-d12	37:33	94406	36658	0.737	500.0	537.647152	107.53	537.647152	0.492
Benzo(a) pyrene	37:37	120470	41984	1.333	500.0	478.767622	95.75	478.767622	2.02
Perylene-d12	37:47	113994	40617	0.887	500.0	539.641292	107.93	539.641292	0.409
Perylene	37:51	128537	45692	1.178	500.0	478.726020	95.75	478.726020	2.06
3-Methylcholanthrene					500.0			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060413s2/y060413s2.d	Prep Date	SDG No
Analysis ID 90105	Prep Exp Date	Date Received
Analysis Date 4/13/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 20:30	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAl
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz (ah) Anthracene-d14	41:05	52538	14713	0.405	500.0	544.964761	108.99	544.964761	0.384
Indeno (1,2,3-cd) pyrene-d12	41:08	101740	25629	0.779	500.0	548.087309	109.62	548.087309	0.233
Indeno (1,2,3-cd) pyrene	41:13	125114	34600	1.297	500.0	474.147427	94.83	474.147427	0.338
Dibenz (a,h) anthracene	41:11	102088	26375	2.059	500.0	471.937528	94.39	471.937528	0.454
Benzo (ghi) Perylene-d12	42:07	73341	17407	0.559	500.0	550.341686	110.07	550.341686	0.324
Benzo (ghi) perylene	42:12	117621	29784	1.698	500.0	472.205554	94.44	472.205554	0.381
13C6-Dibenzo (a,e) pyrene					500.0			ND	0.000000
Dibenzo (a,e) pyrene					500.0			ND	0.000000

PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060413s2/y060413s2.	Prep Date	SDG No
Analysis ID 90105	Prep Exp Date	Date Received
Analysis Date 04/13/06 20:30	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	16:02	-1	193986		61312			ABV
136					136.0000		136.0000			
	Noise	00:00	00:00	0	38		15			
	Naphthalene-d8	15:58	15:58	0	164250		51560			ABB
142					142.0000		142.0000			
	Noise	00:00	00:00	0	15		6			
	2-Methylnaphthalene	18:04	18:03	1	131508		46765			AVV
	1-Methylnaphthalene	18:23	18:23	0	123574		47560			AVB
152					152.0000		152.0000			
	Noise	00:00	00:00	0	15		6			
	2-Methylnaphthalene-d10	17:59	17:58	1	107852		38758			ABV
	1-Methylnaphthalene-d10	18:18	18:17	1	93612		37617			AVB
	Acenaphthylene	20:49	20:48	1	187088		77988			ABB
154					154.0000		154.0000			
	Noise	00:00	00:00	0	40		16			
	Biphenyl	19:27	19:26	1	160448		69706			ABB
	Acenaphthene	21:23	21:22	1	113291		41920			AVB
156					156.0000		156.0000			
	Noise	00:00	00:00	0	65		26			
	2,6-Dimethylnaphthalene	19:56	19:55	1	115730		53639			ABB
160					160.0000		160.0000			
	Noise	00:00	00:00	0	13		5			
	Acenaphthylene-d8	20:46	20:47	-1	155410		63511			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	18		7			
	Acenaphthene-d10	21:17	21:16	1	92986		37400			ABB
166					166.0000		166.0000			
	Noise	00:00	00:00	0	18		7			
	Fluorene	22:53	22:52	1	140924		49074			AVB
168					168.0000		168.0000			
	Noise	00:00	00:00	0	18		7			
	2,6-Dimethylnaphthalene	19:49	19:48	1	96402		34386			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	22:29	-1	105387		36699			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

PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060413s2/y060413s2.	Prep Date	SDG No
Analysis ID 90105	Prep Exp Date	Date Received
Analysis Date 04/13/06 20:30	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	22:53	22:52	1	120679 ✓		50470			ABV	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	10		4				
	Fluorene d-10	22:48	22:47	1	128351 ✓		59772			ABV	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene	25:47	25:48	-1	187356		80819			ABV	
	Anthracene	25:56	25:55	1	167335		79031			AVV	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene-d10	25:43	25:44	-1	158547		59529			ABV	
	Anthracene-d10	25:53	25:52	1	136602		55827			AVB	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	28		11				
	1-Methylphenanthrene	27:42	27:41	1	133388		46748			ABB	
202					202.0000		202.0000				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene	29:24	29:24	0	199518		79880			ABV	
	Pyrene	30:06	30:05	1	202419		85036			ABB	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	20		8				
	Fluoranthene-d10	29:21	29:21	0	153914		65718			ABV	
	Pyrene-d10	30:03	30:02	1	196491		83887			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)anthracene	33:41	33:40	1	151805		67073			ABV	
	Chrysene	33:48	33:48	0	152105		67820			AVB	
240					240.0000		240.0000				
	Noise	00:00	00:00	0	23		9				
	Benzo(a)Anthracene-d12	33:37	33:36	1	109046		52918			ABV	
	Chrysene-d12	33:44	33:44	0	115235		54114			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	3		1				
	Terphenyl-d14	30:31	30:30	1	115636 ✓		58684				M
252					252.0000		252.0000				
	Noise	00:00	00:00	0	198		79				
	Benzo(b)fluoranthene	36:39	36:39	0	150237		65185			ABV	
	Benzo(k)fluoranthene	36:43	36:42	1	143347		58679			AVB	
	Benzo(e)pyrene	37:27	37:27	0	142269		56314			ABV	
	Benzo(a)pyrene	37:37	37:36	1	120470		41984			AVV	
	Perylene	37:51	37:50	1	128537		45692			AVB	
	Unidentified	38:40	00:00	0	6242		4021			ABB	

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

PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060413s2/y060413s2.	Prep Date	SDG No
Analysis ID 90105	Prep Exp Date	Date Received
Analysis Date 04/13/06 20:30	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	36:36	36:35	1	113318		43148			ABV	
	Benzo(k)Fluoranthene-d1	36:40	36:39	1	121628		52147			AVB	
	Benzo(e)pyrene-d12	37:23	37:23	0	119140		48267			ABV	
	Benzo(a)Pyrene-d12	37:33	37:32	1	94406		36658			AVV	
	Perylene-d12	37:47	37:46	1	113994		40617			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	23		9				
	Indeno(1,2,3-cd)pyrene	41:13	41:13	0	125114		34600			ABV	
	Benzo(ghi)perylene	42:12	42:14	-2	117621		29784			ABB	
278					278.0000		278.0000				
	Noise	00:00	00:00	0	28		11				
	Dibenz(a,h)anthracene	41:11	41:13	-2	102088		26375			ABB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	18		7				
	Indeno(1,2,3-cd)pyrene-	41:08	41:09	-1	101740		25629			ABV	
	Benzo(ghi)Perylene-d12	42:07	42:07	0	73341		17407			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	15		6				
	Dibenz(ah)Anthracene-d1	41:05	41:07	-2	52538		14713			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: Jan 4/18/00
QC VM/C 4/19/06

605
1384

28:24.1
20:30:00

Elapse:
Start :

13-APR-06

605
1384

28:24.1
20:30:00

Elapse:
Start :

Study : PAH Ver

Inlet : 0 > 308

Label : 0, 3.0

Client: STL Knoxville

Label wndw: 1 > 1384

Baseline : 100, 3

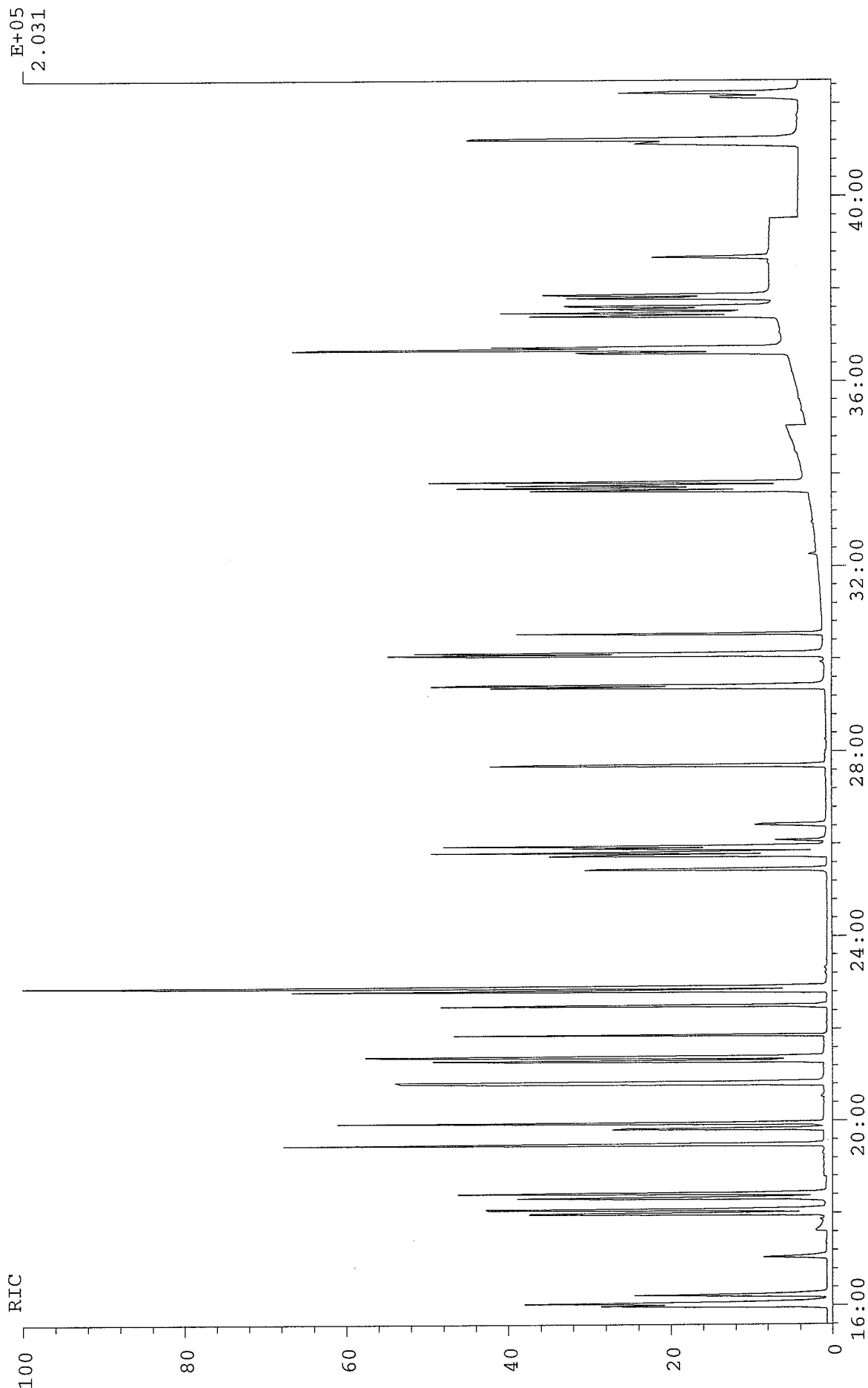
Masses: 0 > 308

Label : 0, 3.0

Masses: 0 > 308

Label : 0, 3.0

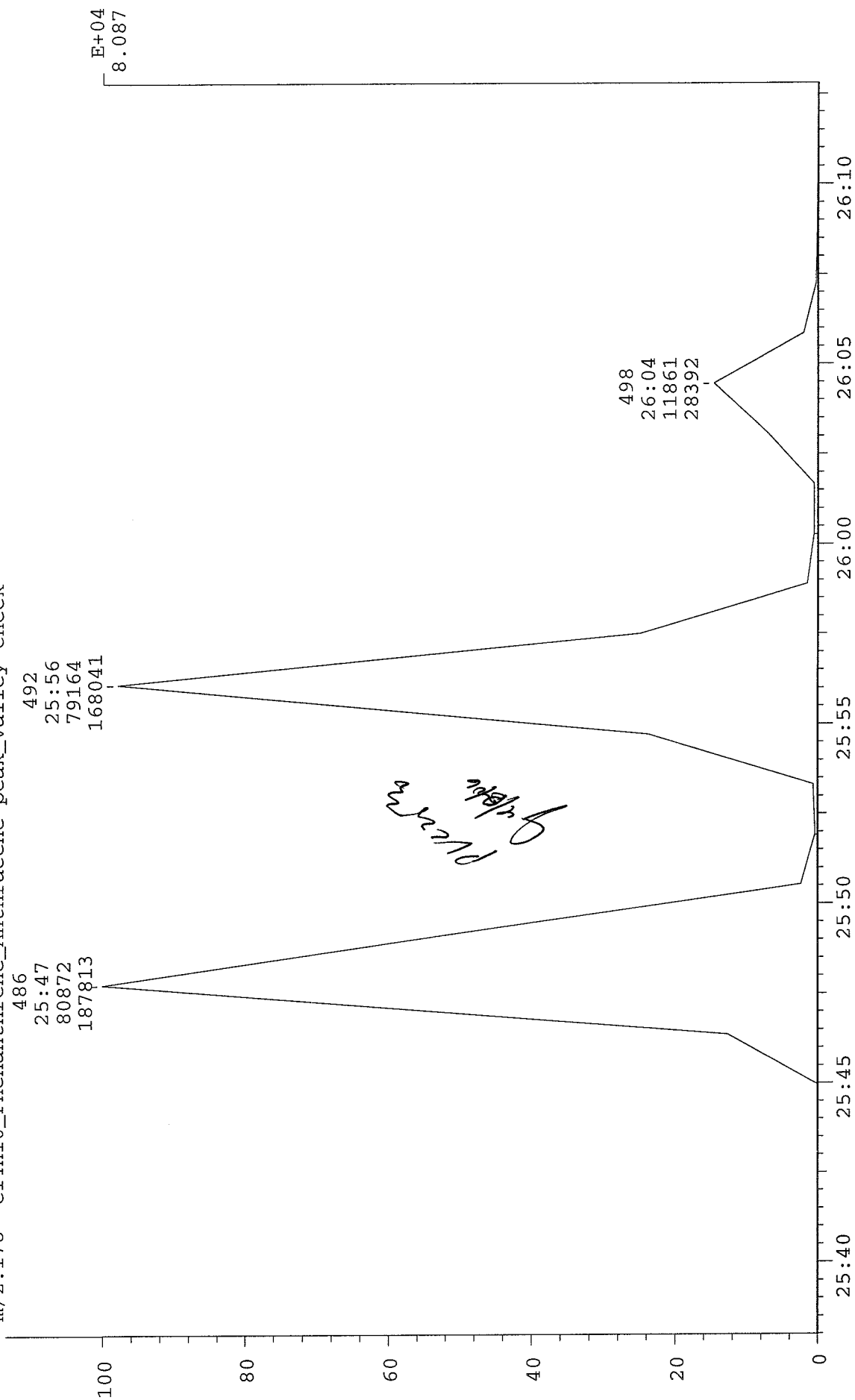
CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1 > 1384
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area



CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YAl Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

13-APR-06 Elapse: 40:57 1325
Start : 20:30:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10-Phenanthrene-Anthracene peak_valley check"

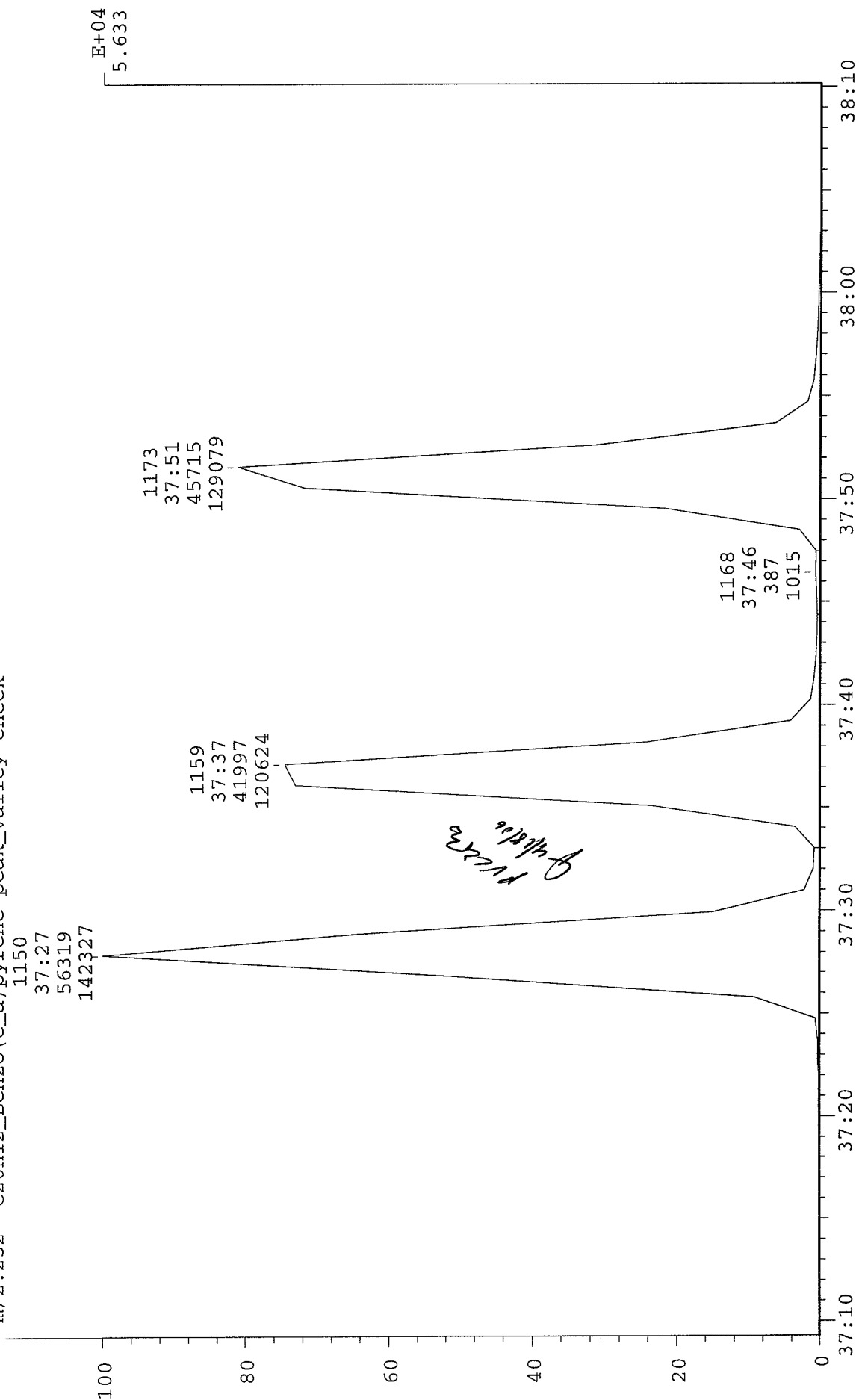


CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

13-APR-06 Elapse: 40:57 1325
Start : 20:30:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



Data File: /var/chem/gcms/my.i/y060413s1.b/dfy04136.d

Date : 13-APR-2006 19:58

Client ID: Tune

Instrument: my.i

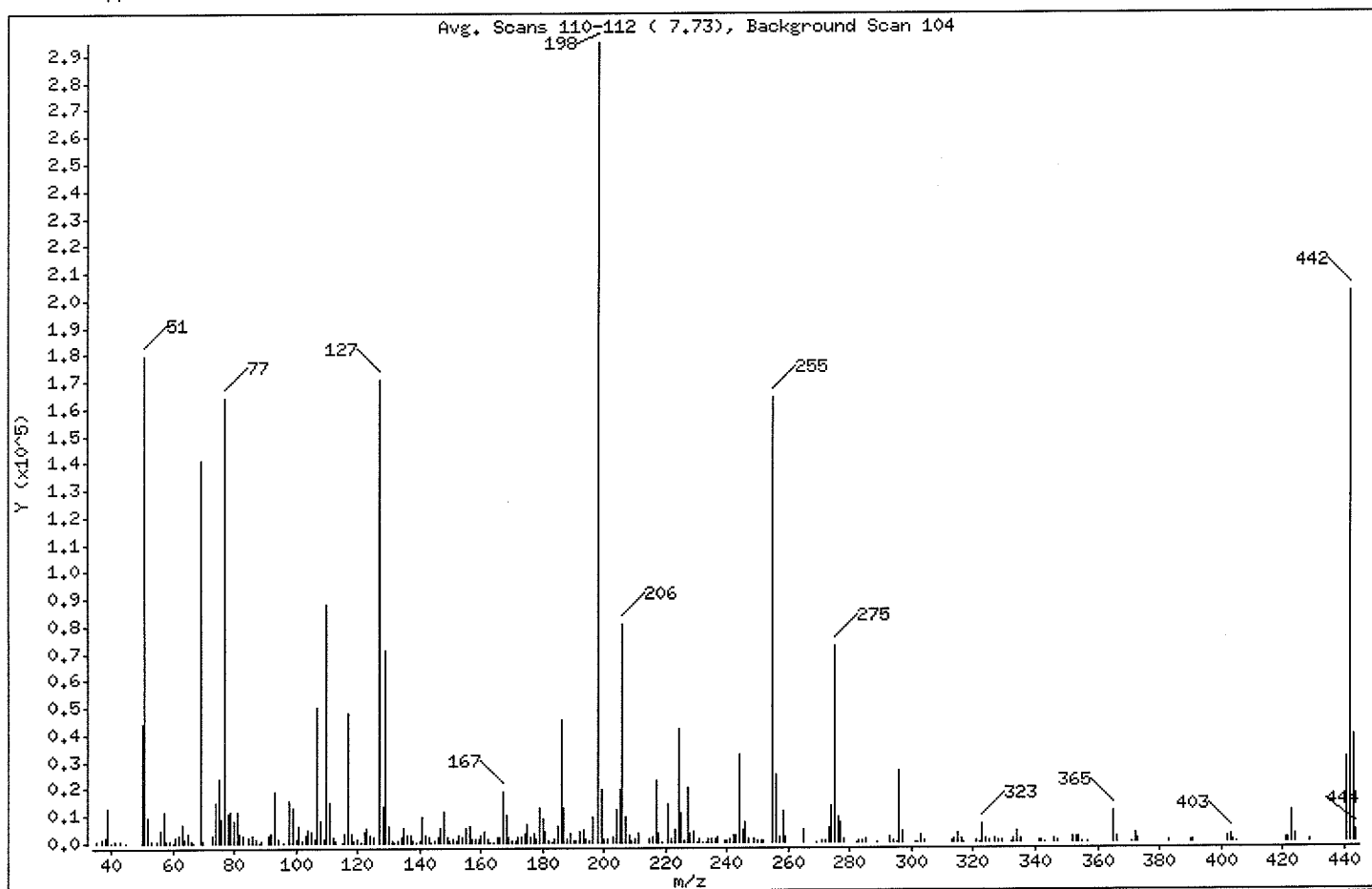
Sample Info: DFY04136

Operator:

Column phase: HP5-MS

Column diameter: 0.25

1 dfpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 80.00% of mass 198	60.98
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	47.88
70	Less than 2.00% of mass 69	0.32 (0.68)
127	25.00 - 75.00% of mass 198	57.89
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.60
275	10.00 - 30.00% of mass 198	24.53
365	Greater than 0.75% of mass 198	3.94
441	Present, but less than mass 443	10.63
442	40.00 - 110.00% of mass 198	68.78
443	15.00 - 24.00% of mass 442	13.37 (19.44)

Data File: /var/chem/gcms/my.i/y060413s1.b/dfy04136.d

Date : 13-APR-2006 19:58

Client ID: Tune

Instrument: my.i

Sample Info: DFY04136

Operator:

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy04136.d

Spectrum: Avg. Scans 110-112 (7.73), Background Scan 104

Location of Maximum: 198.00

Number of points: 270

m/z	Y	m/z	Y	m/z	Y	m/z	Y

35.00	362	119.00	647	188.00	1392	275.00	72288
37.00	1104	120.00	1049	189.00	3066	276.00	9653
38.00	1748	121.00	240	190.00	461	277.00	7681
39.00	13200	122.00	3774	191.00	871	278.00	1432
40.00	237	123.00	5478	192.00	3736	282.00	48

41.00	367	124.00	2412	193.00	4501	283.00	632
43.00	346	125.00	2037	194.00	1089	284.00	596
45.00	261	127.00	170560	195.00	475	285.00	1468
50.00	44376	128.00	13511	196.00	9572	289.00	176
51.00	179712	129.00	70904	198.00	294720	293.00	1831

52.00	9218	130.00	5863	199.00	19440	294.00	369
53.00	677	131.00	817	200.00	1331	295.00	168
55.00	471	132.00	329	201.00	1127	296.00	26248
56.00	5002	133.00	490	203.00	2219	297.00	3855
57.00	11588	134.00	1879	204.00	12078	301.00	205

58.00	821	135.00	5248	205.00	19856	302.00	172
59.00	360	136.00	2432	206.00	80920	303.00	2728
60.00	58	137.00	2664	207.00	9768	304.00	901
61.00	1932	138.00	775	208.00	2374	313.00	411
62.00	2405	139.00	220	209.00	748	314.00	1173

63.00	6606	140.00	1002	210.00	1343	315.00	3528
64.00	1028	141.00	9656	211.00	3080	316.00	1630
65.00	3150	142.00	3013	215.00	1094	317.00	178
66.00	402	143.00	2321	216.00	1966	321.00	737
67.00	189	144.00	274	217.00	23040	322.00	184

69.00	141120	145.00	464	218.00	3255	323.00	7046
70.00	957	146.00	1800	219.00	174	324.00	1486
73.00	2510	147.00	5112	221.00	13904	325.00	660
74.00	15231	148.00	11724	222.00	1600	327.00	1329
75.00	23704	149.00	2049	223.00	4856	328.00	558

76.00	8685	150.00	958	224.00	41712	329.00	376
77.00	163904	151.00	1297	225.00	11124	332.00	218
78.00	10822	152.00	878	226.00	774	333.00	1208
79.00	11203	153.00	2937	227.00	20360	334.00	4361
80.00	8364	154.00	2088	228.00	3112	335.00	1331

Data File: /var/chem/gcms/my.i/y060413s1.b/dfy04136.d

Date : 13-APR-2006 19:58

Client ID: Tune

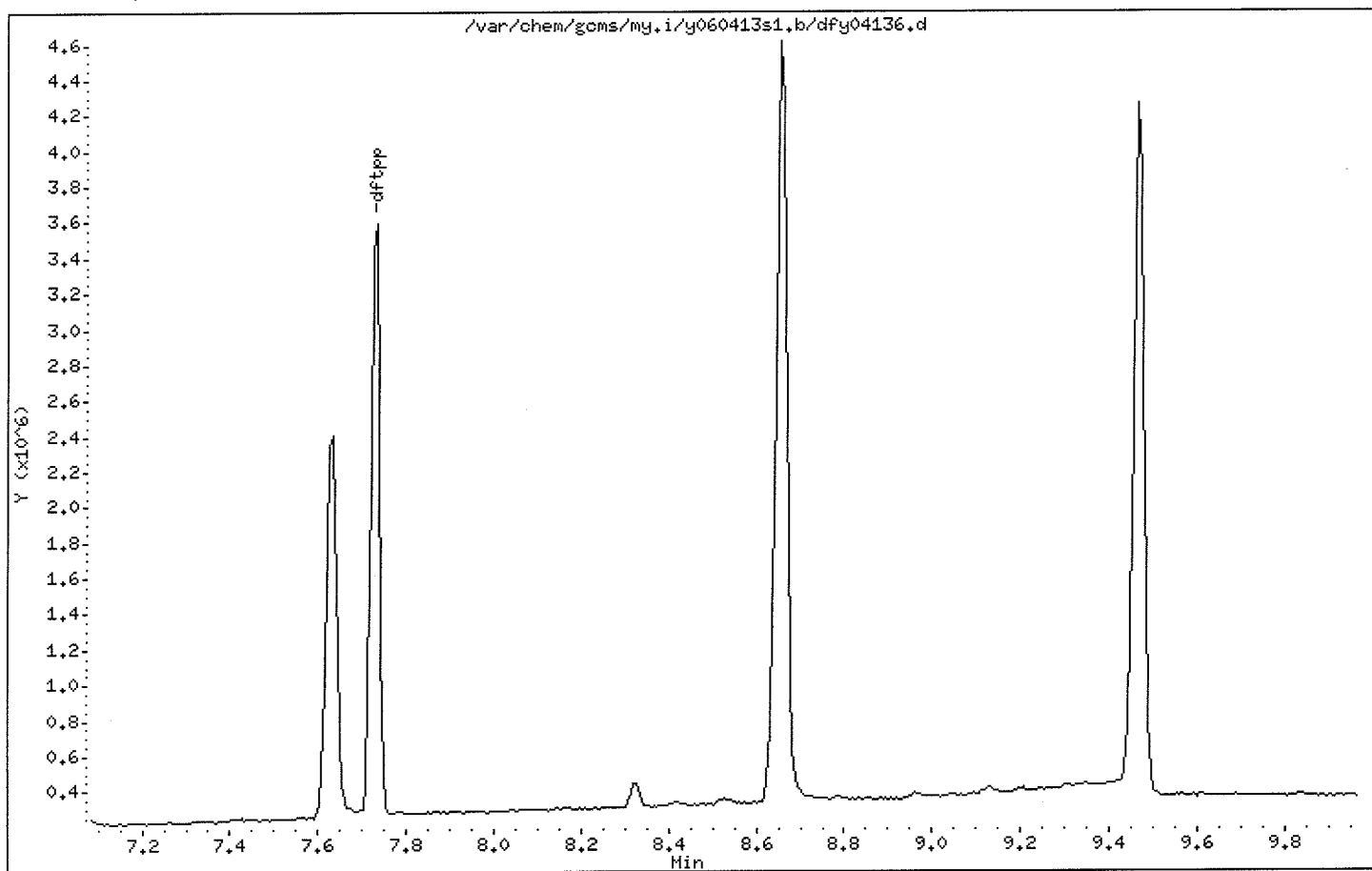
Instrument: my.i

Sample Info: DFY04136

Operator:

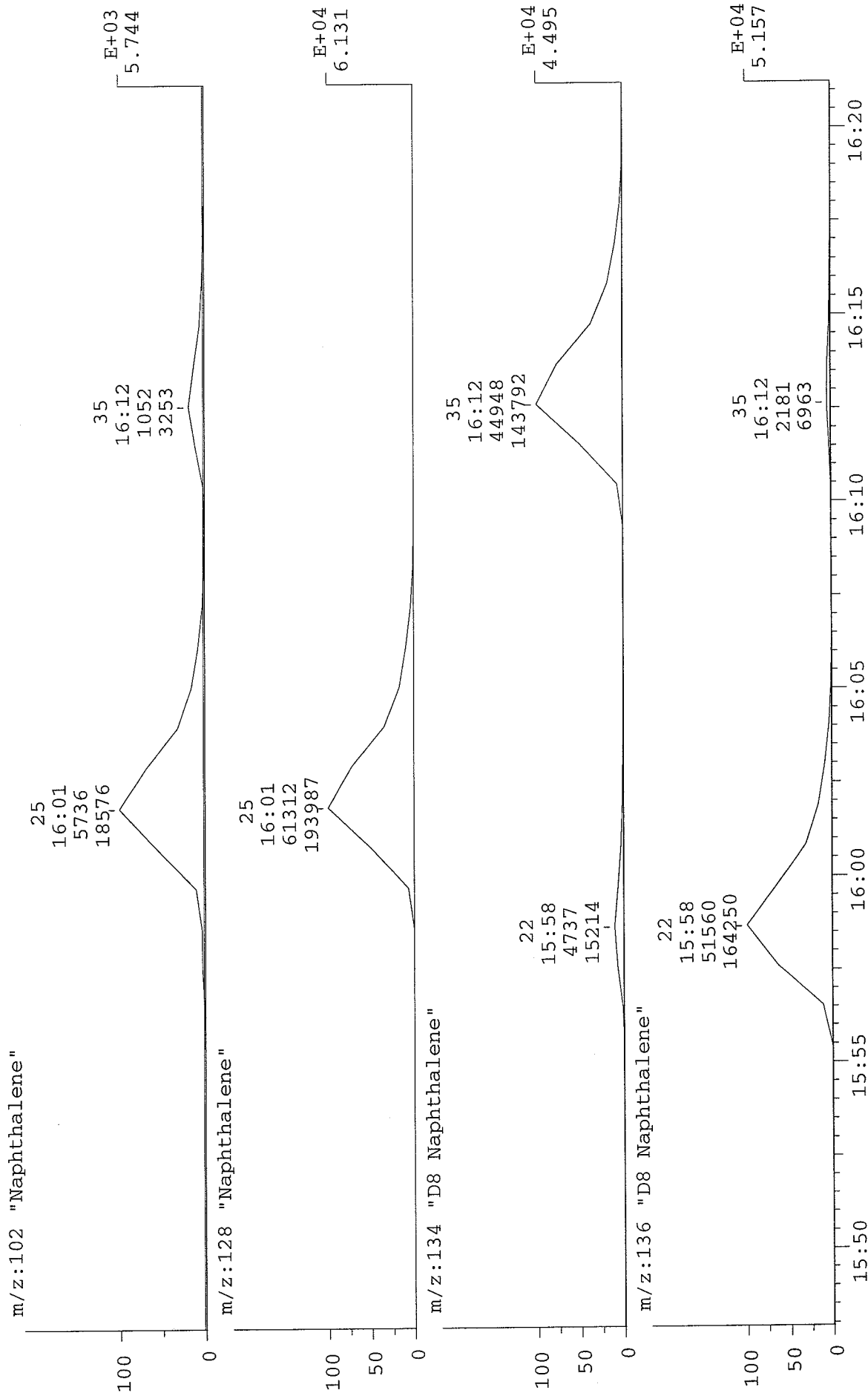
Column phase: HP5-MS

Column diameter: 0.25



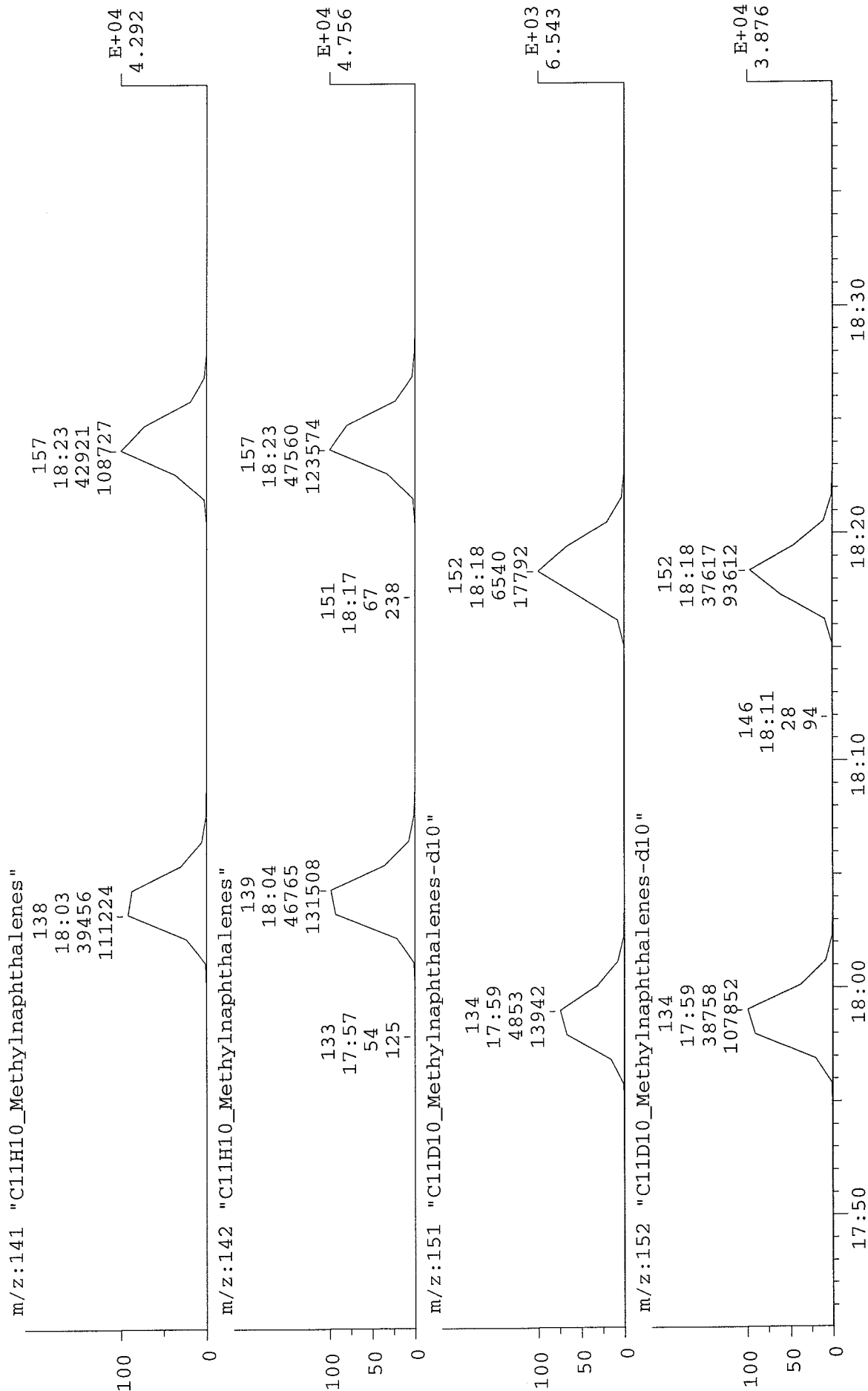
CHRO: Y060413s2
Samp: W0=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

13-APR-06 Elapse: 42:06 1369
Start : 20:30:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



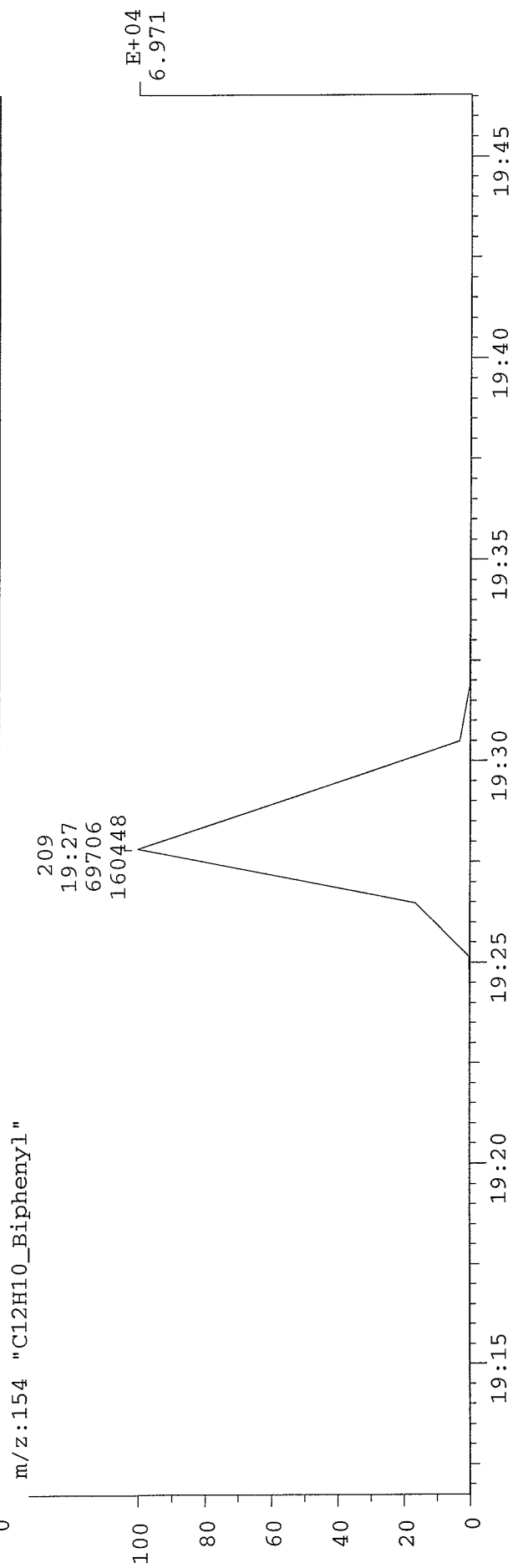
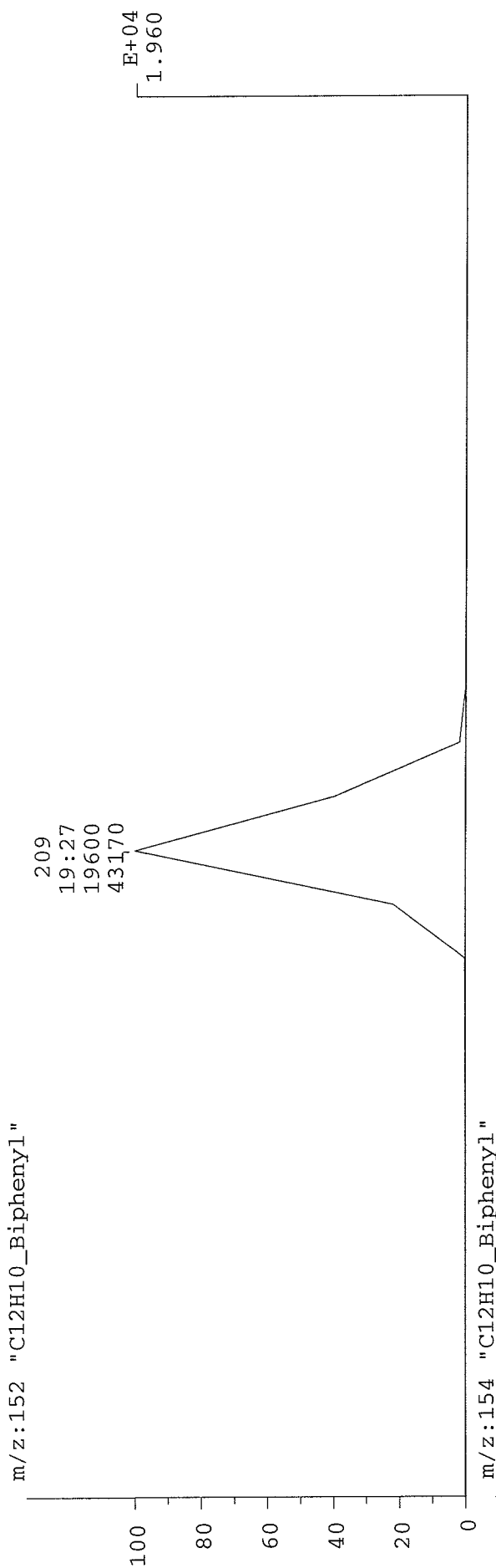
CHRO: Y060413s2
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 121 > 172
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

13-APR-06 Elapse: 42:06 1369
 Start : 20:30:00 1384
 Study : PAH Ver
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: Y060413s2
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 197 > 223
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

13-APR-06 Elapse: 42:06 1369
 Start : 20:30:00 1384



CHRO: Y060413s2
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 218 > 238
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

13-APR-06 Elapse: 42:06 1369
 Start : 20:30:00 1384

Study : PAH Ver
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"

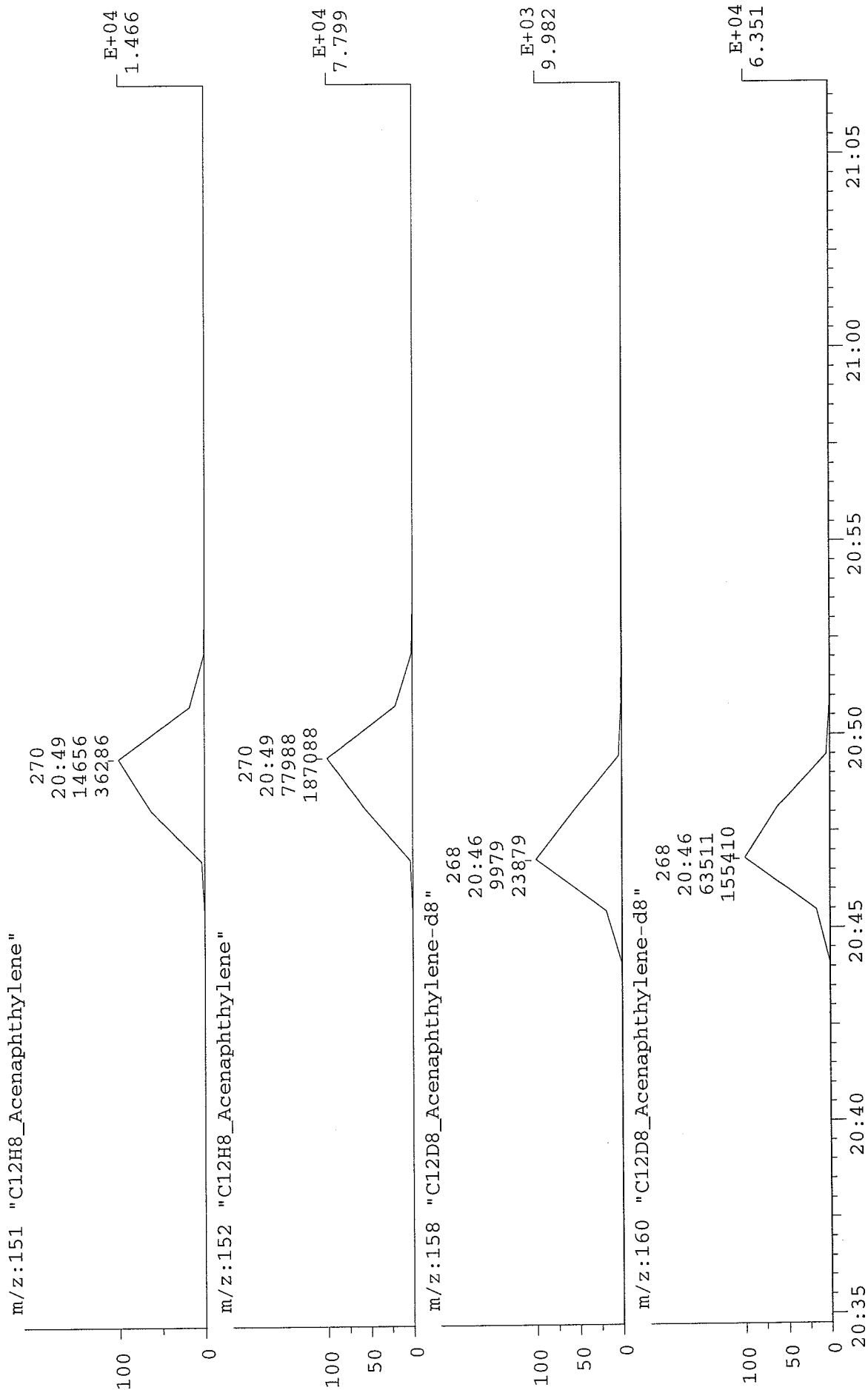


m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



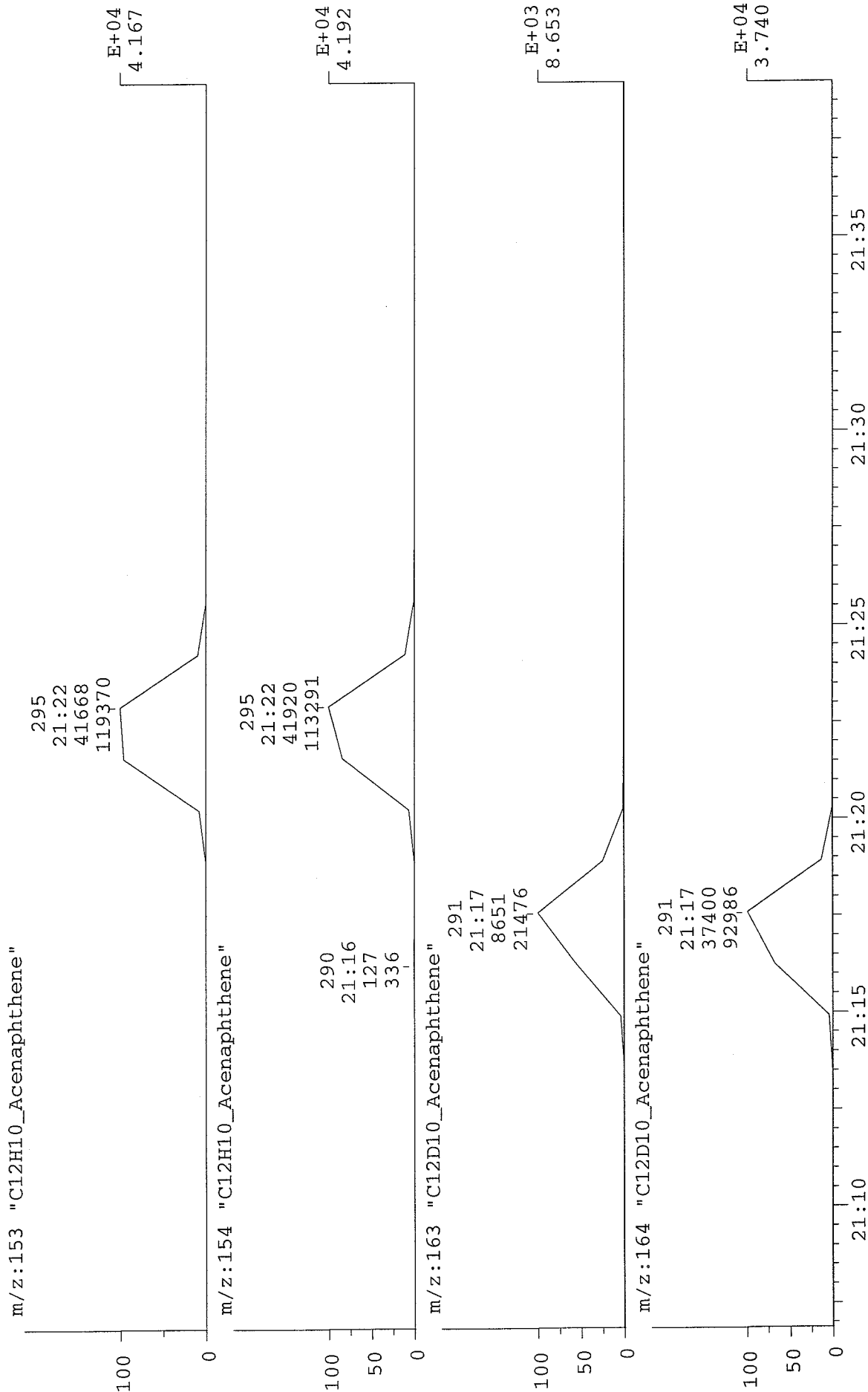
CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

13-APR-06 Elapse: 42:06 1369
Start : 20:30:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



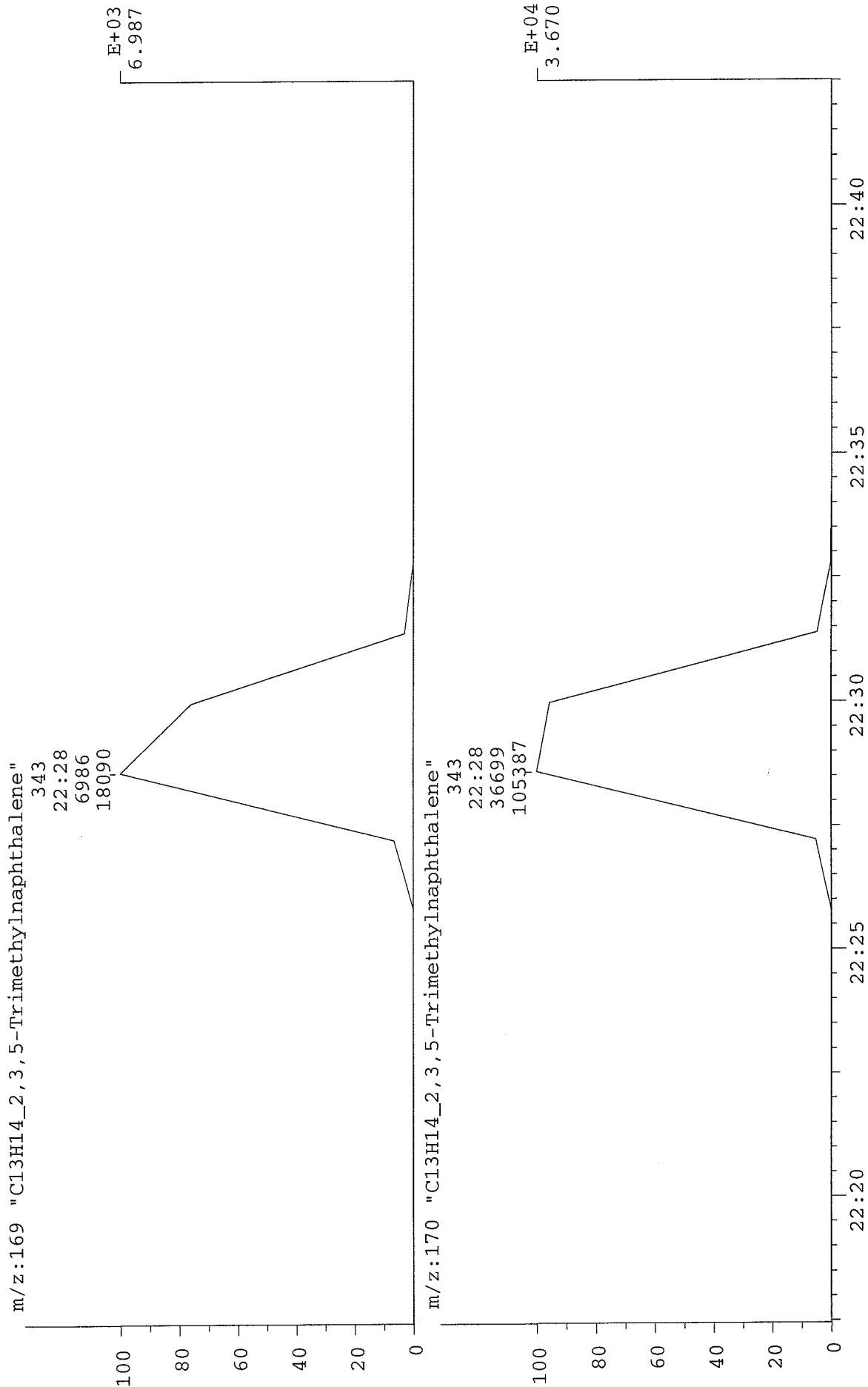
CHRO: Y060413s2
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 283 > 307
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

13-APR-06 Elapse: 42:06 1369
 Start : 20:30:00 1384
 Study : PAH Ver
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



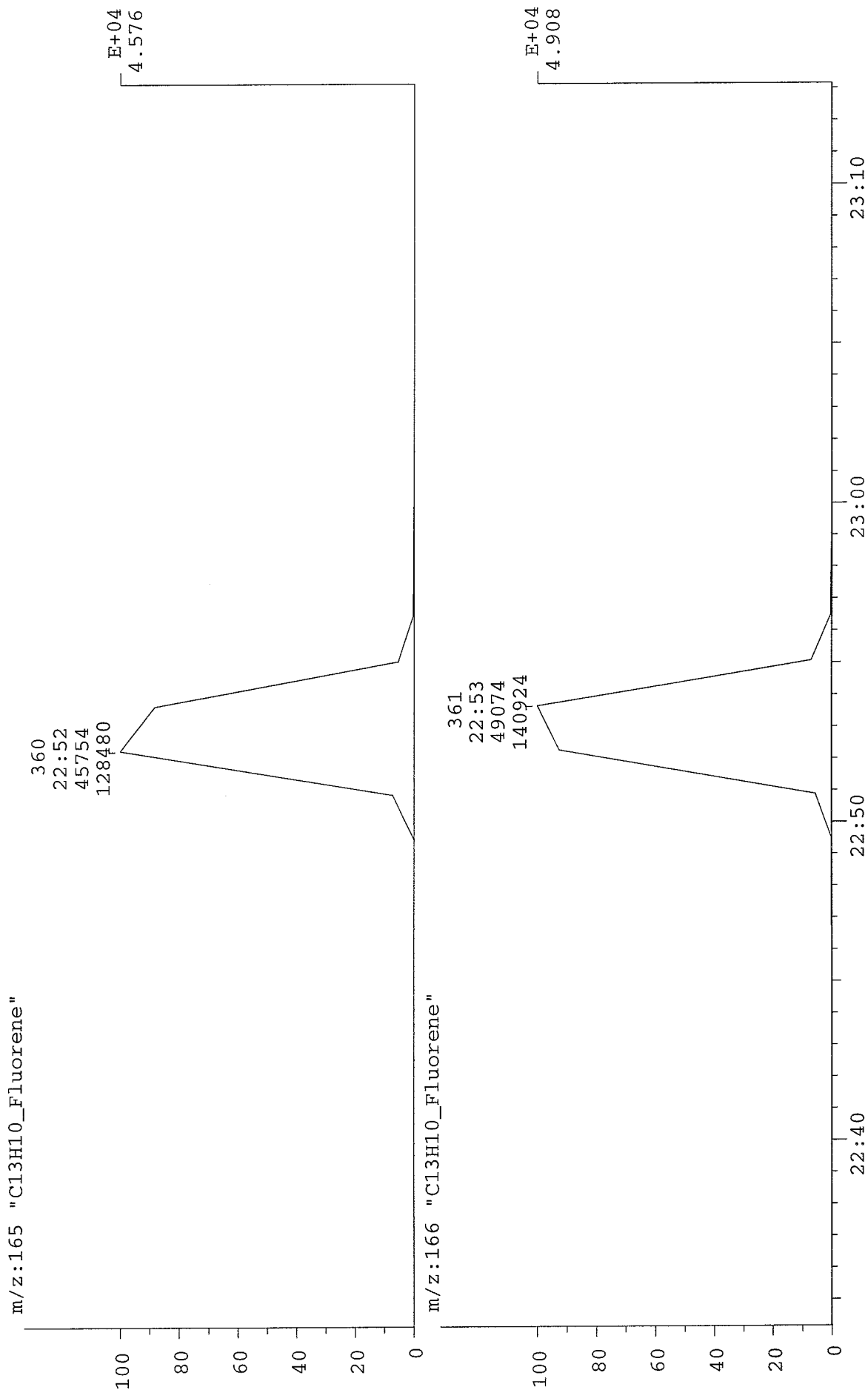
CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

13-APR-06 Elapse: 42:06 1369
Start : 20:30:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

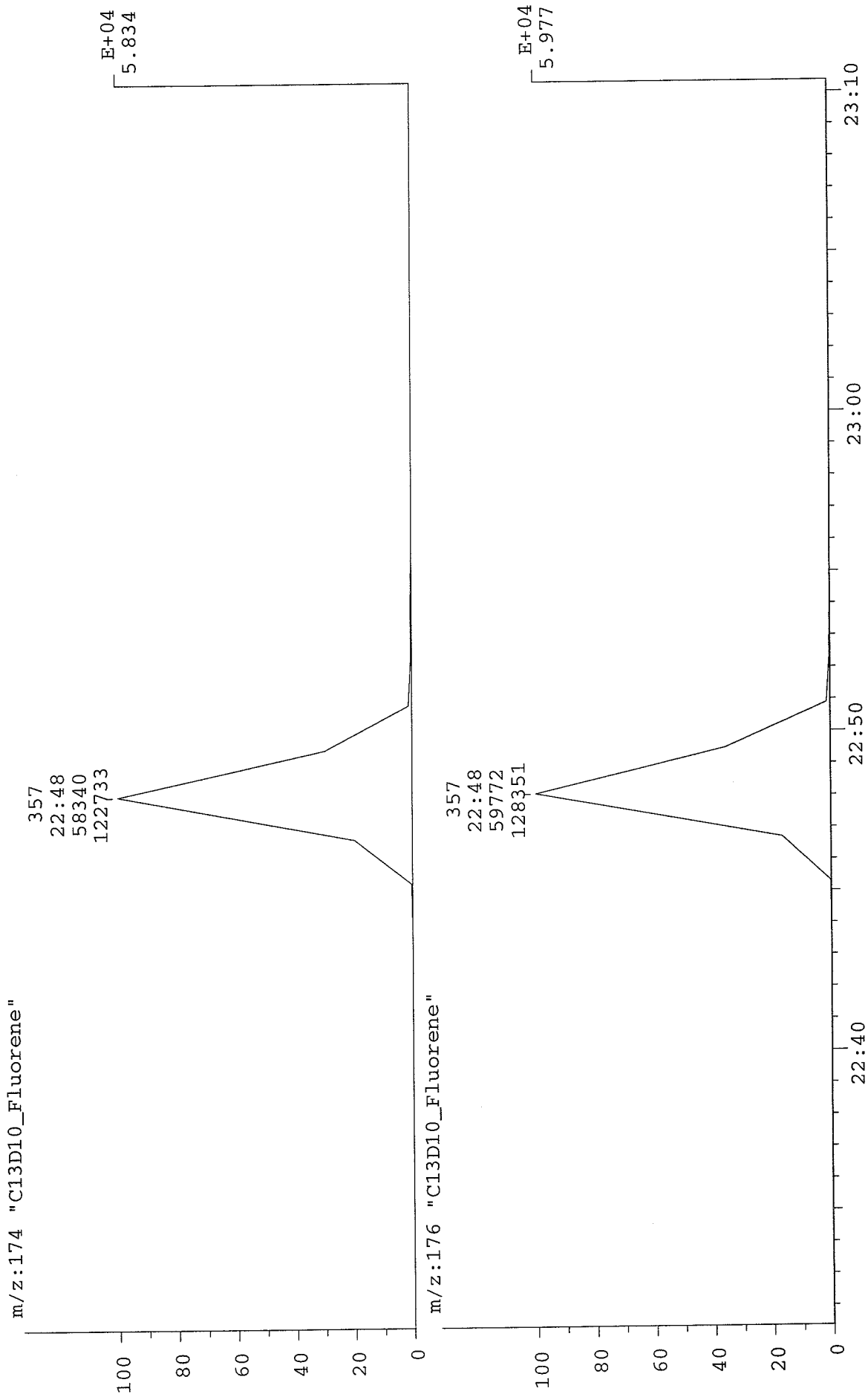
13-APR-06 Elapse: 42:06 1369
Start : 20:30:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1 733
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i 1384
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 345 > 373
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

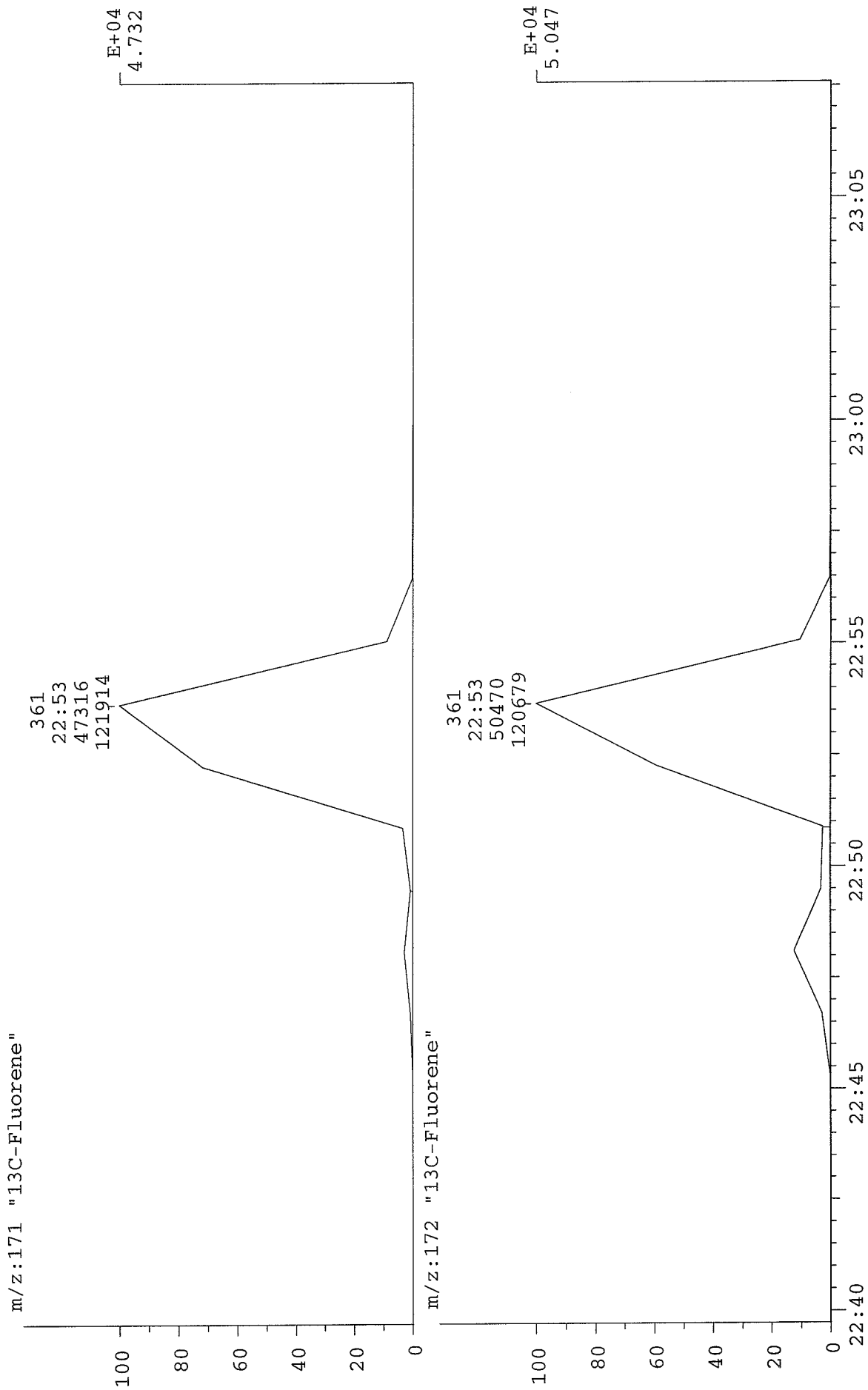
13-APR-06 Elapse: 30:30.2
Start : 20:30:00

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



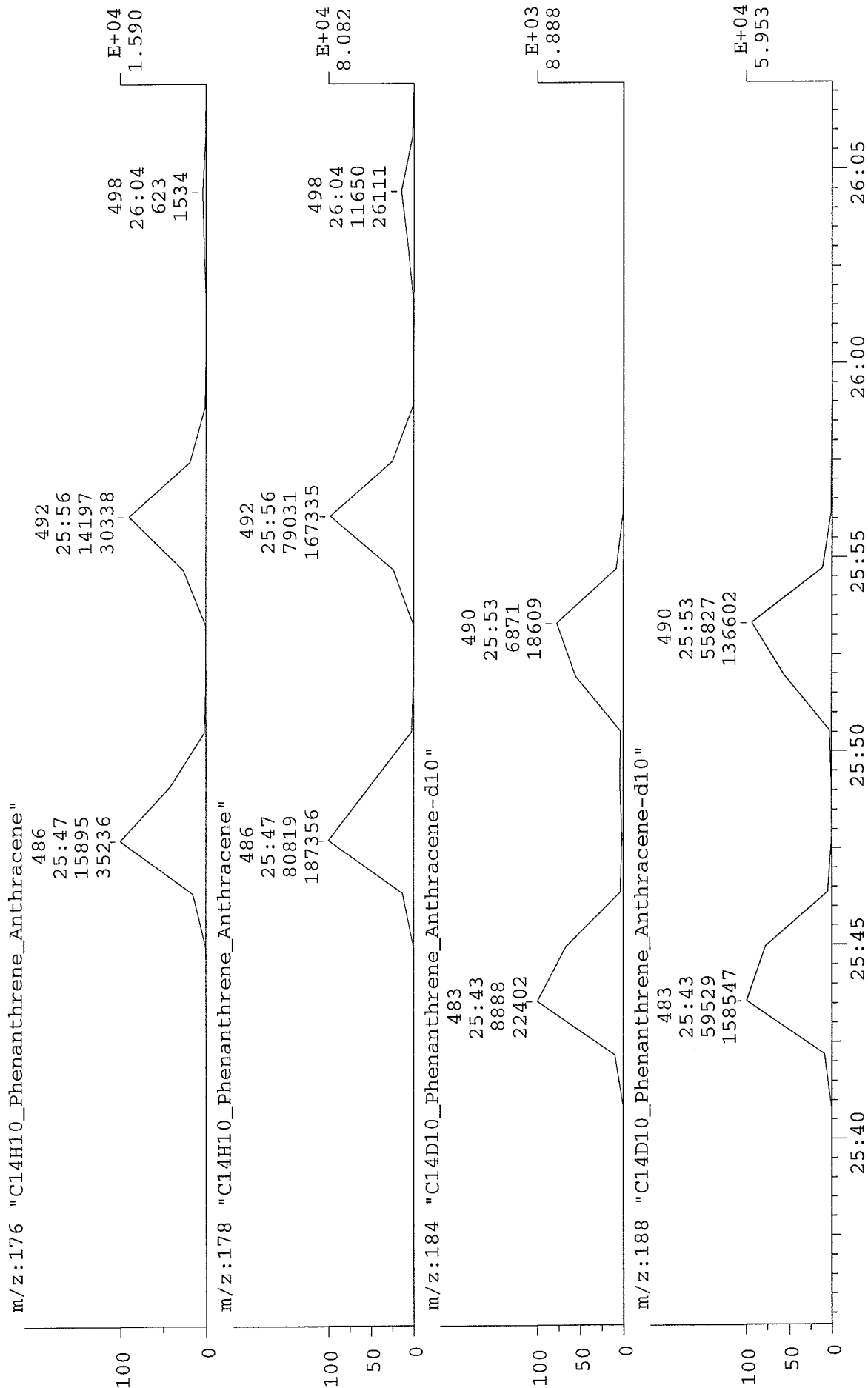
CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 351 > 371
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

13-APR-06 Elapse: 30:30.2 733
Start : 20:30:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 477 > 500
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

13-APR-06 Elapse: 42:06 1369
Start : 20:30:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

13-APR-06 Elapse: 42:06 1369

Start : 20:30:00 1384

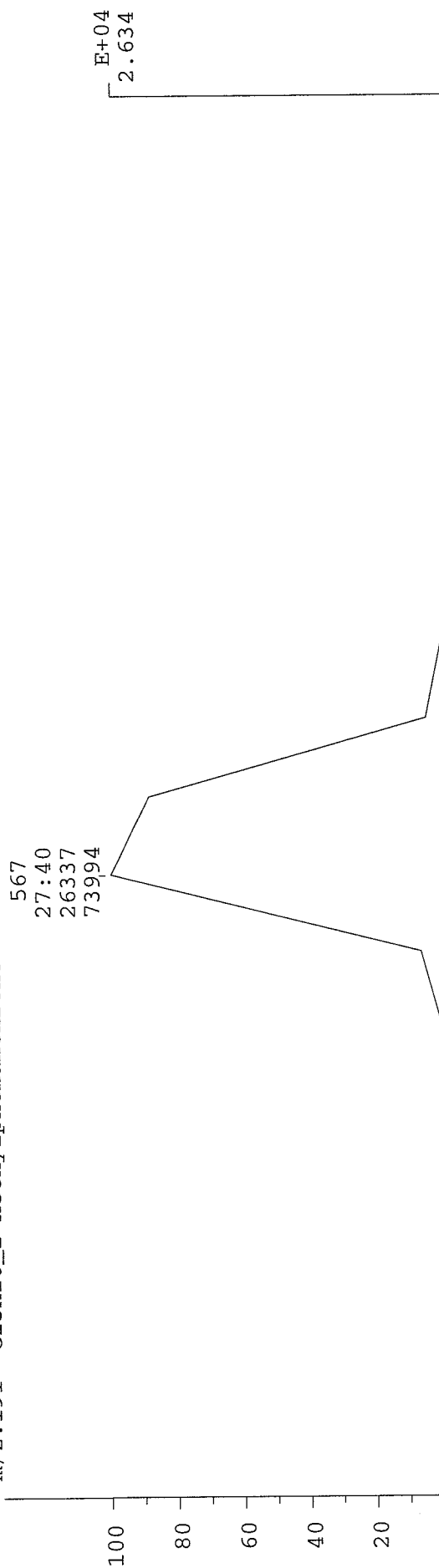
Study : PAH Ver

Inlet :

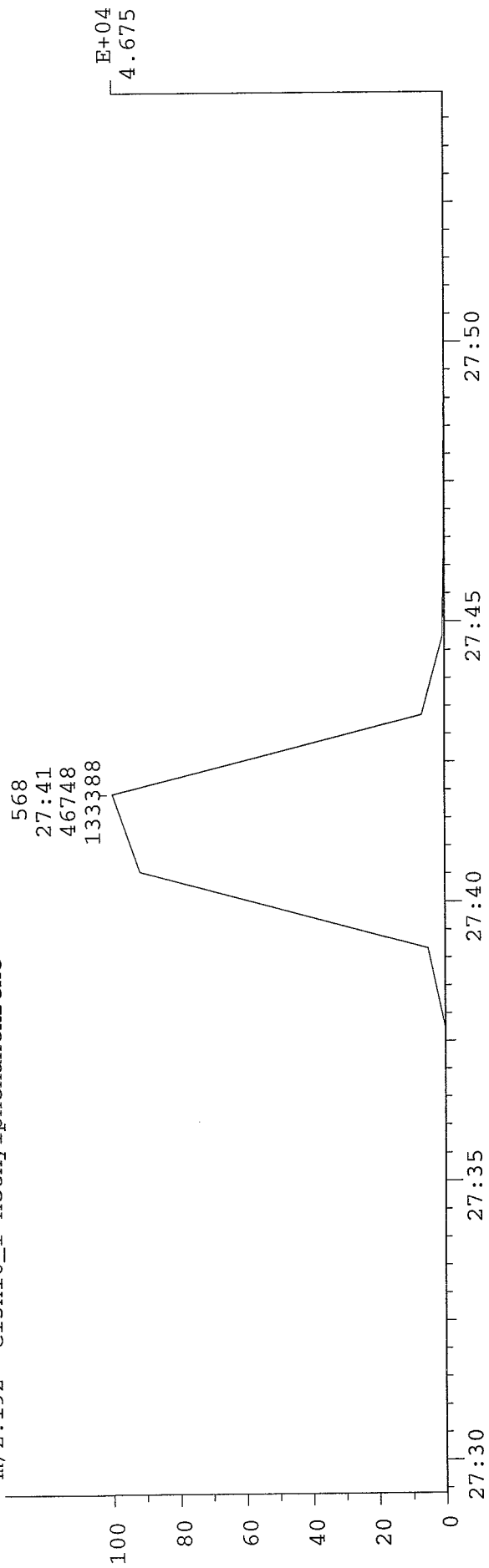
Masses: 0 > 308

Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"



m/z:192 "C15H10_1-Methylphenanthrene"



CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 648 > 725
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

13-APR-06 Elapse: 42:06 1369
Start : 20:30:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:200 "C16H10_Fluoranthene_Pyrene"



m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 "C16D10_Fluoranthene_Pyrene-d10"



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"

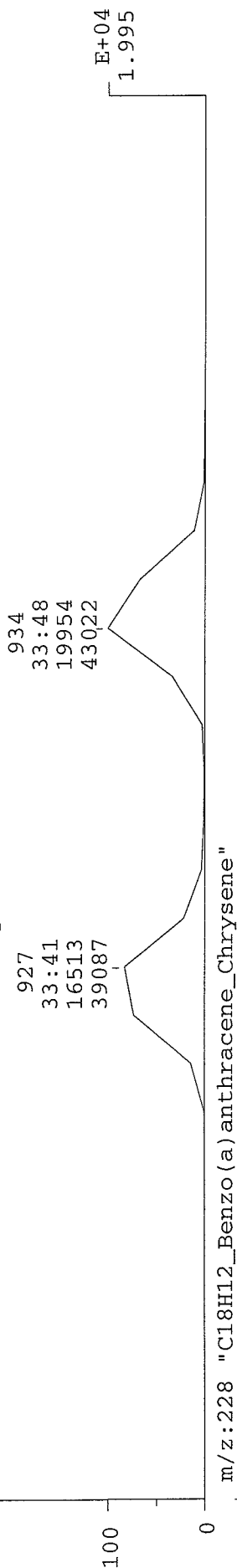


CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 916 > 945
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

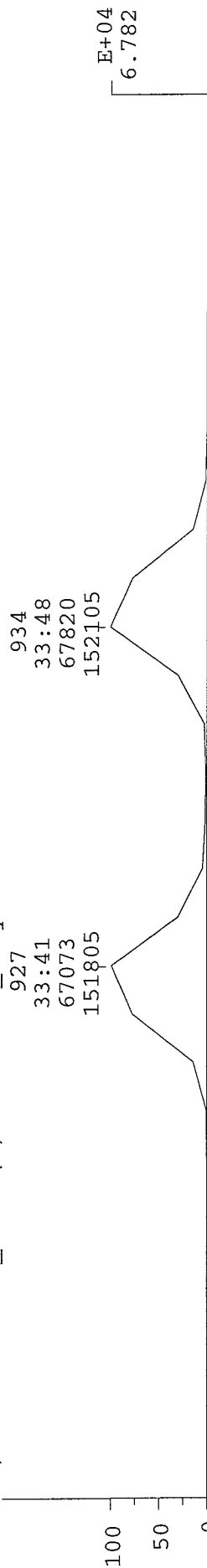
13-APR-06 Elapse: 42:06 1369
Start : 20:30:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

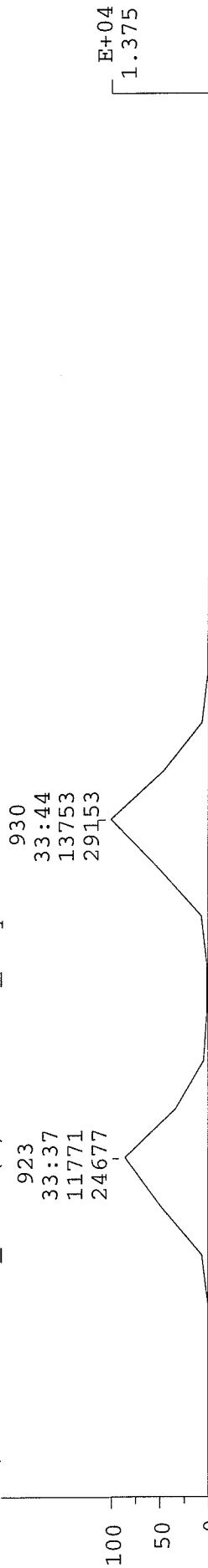
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



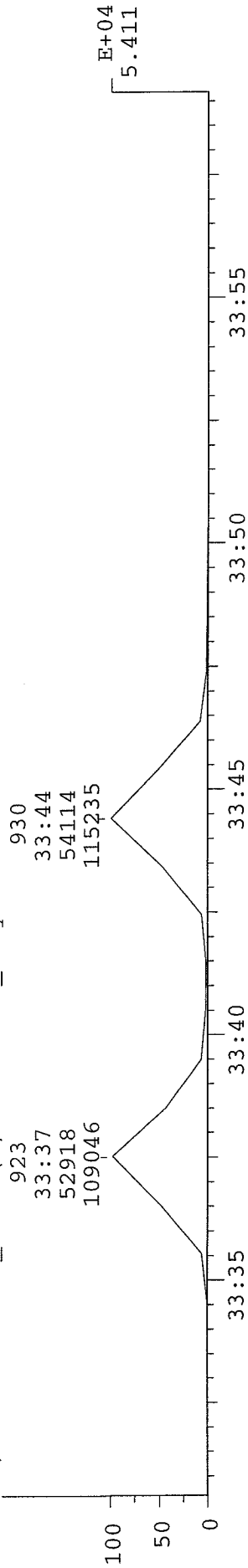
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"

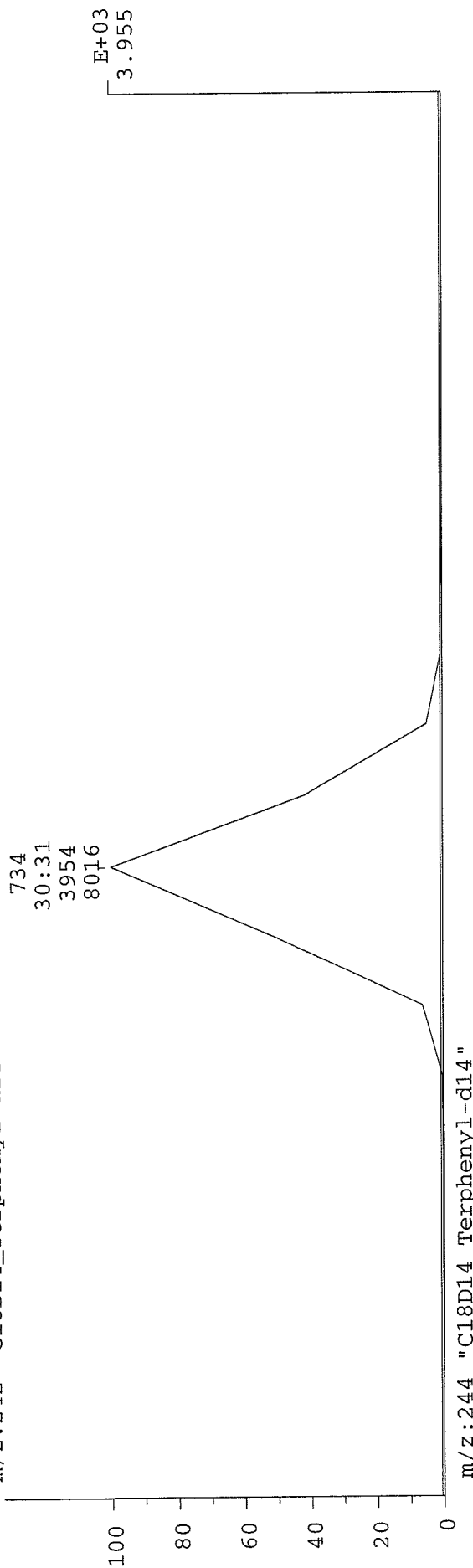


CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1 733
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i 1384
Mode: EI +VE + LMR (LJN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 725 > 745
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

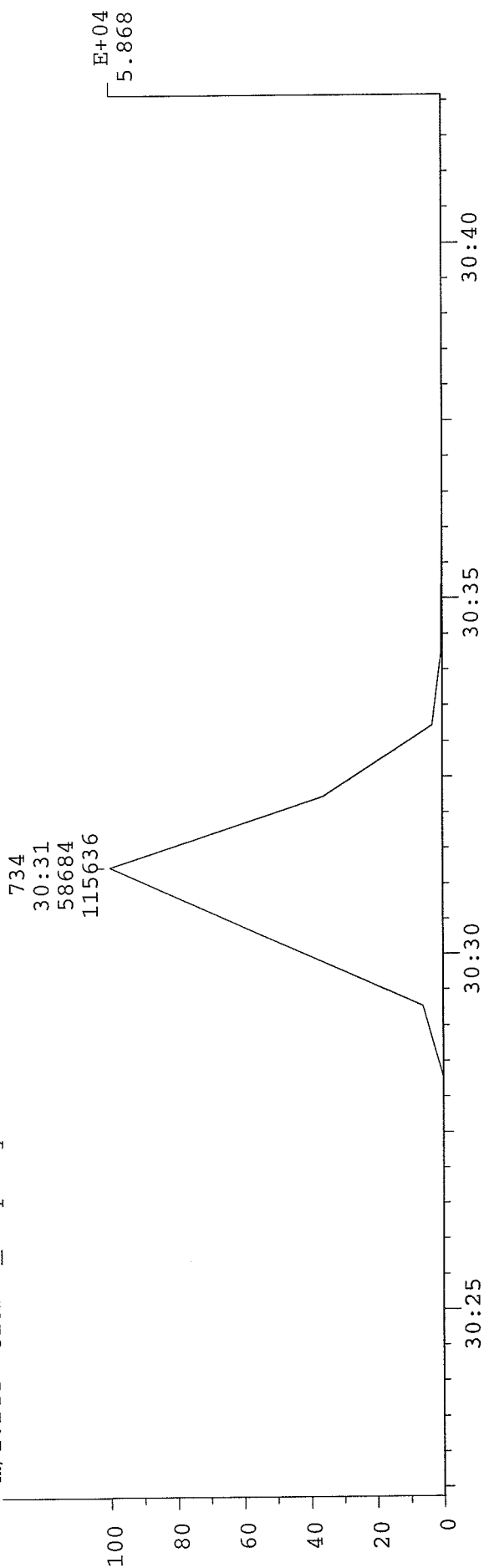
13-APR-06 Elapse: 30:30.2
Start : 20:30:00

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

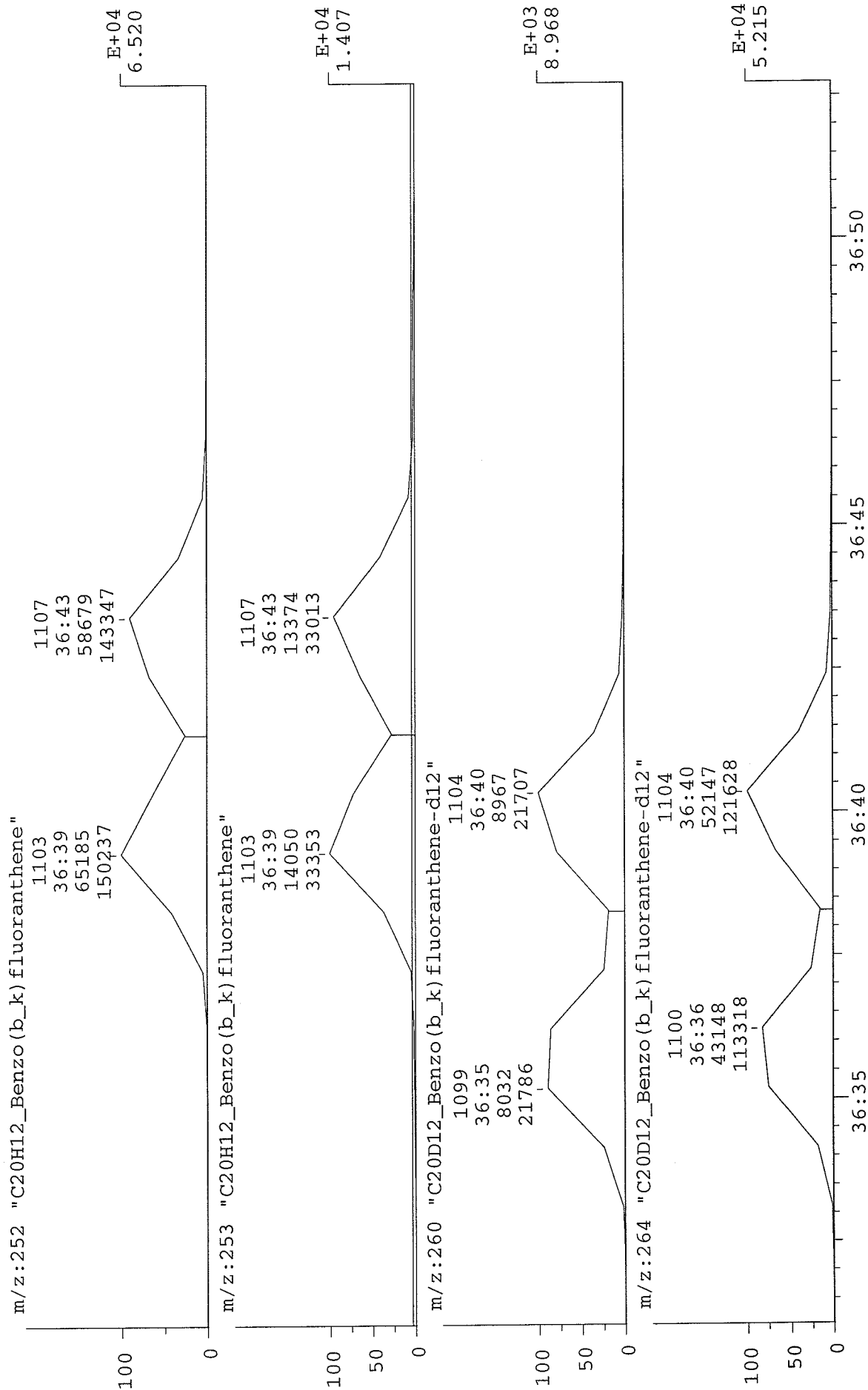
m/z:242 "C18D14_Terphenyl-d14"



m/z:244 "C18D14_Terphenyl-d14"



CHRO:	y060413s2	13-APR-06	Elapse:	42:06	1369
Samp:	WO=3377:01_4 Meth=YA1 Dil=1		Start :	20:30:00	1384
Comm:	Inst=h2a/695821 Batch=20060413s2 Ccal=200604051				
Mode:	EI +VE + LMR (LIN) UP LR NETCDF		Study :	PAH Ver	
Oper:	JMN Client: STL Knoxville		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				

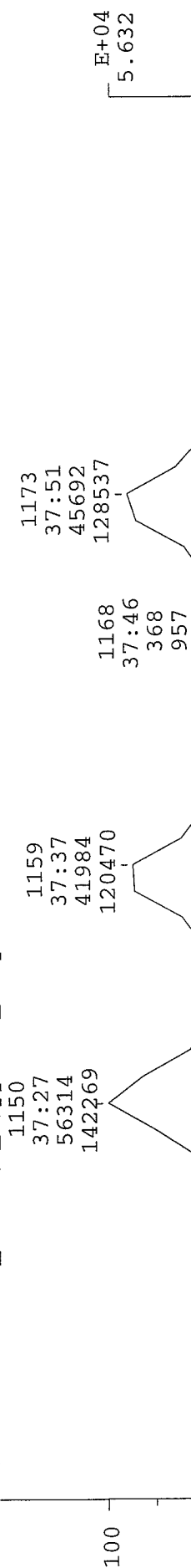


CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1135 > 1188
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

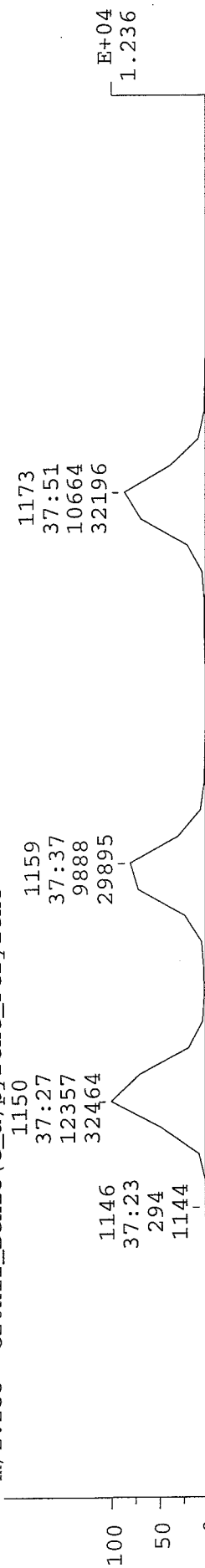
13-APR-06 Elapse: 42:06 1369
Start : 20:30:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:252 "C20H12_Benzo(e_a)pyrene_Perylene"



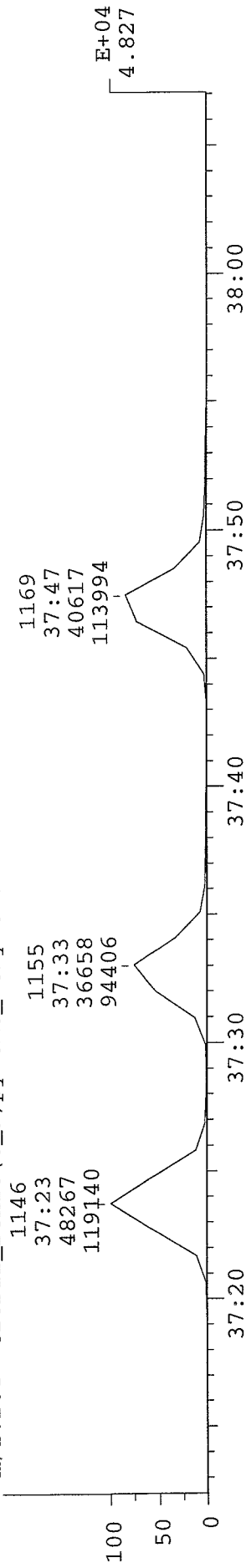
m/z:253 "C20H12_Benzo(e_a)pyrene_Perylene"



m/z:260 "C20D12_Benzo(e_a)pyrene_Perylene-d12"



m/z:264 "C20D12_Benzo(e_a)pyrene_Perylene-d12"

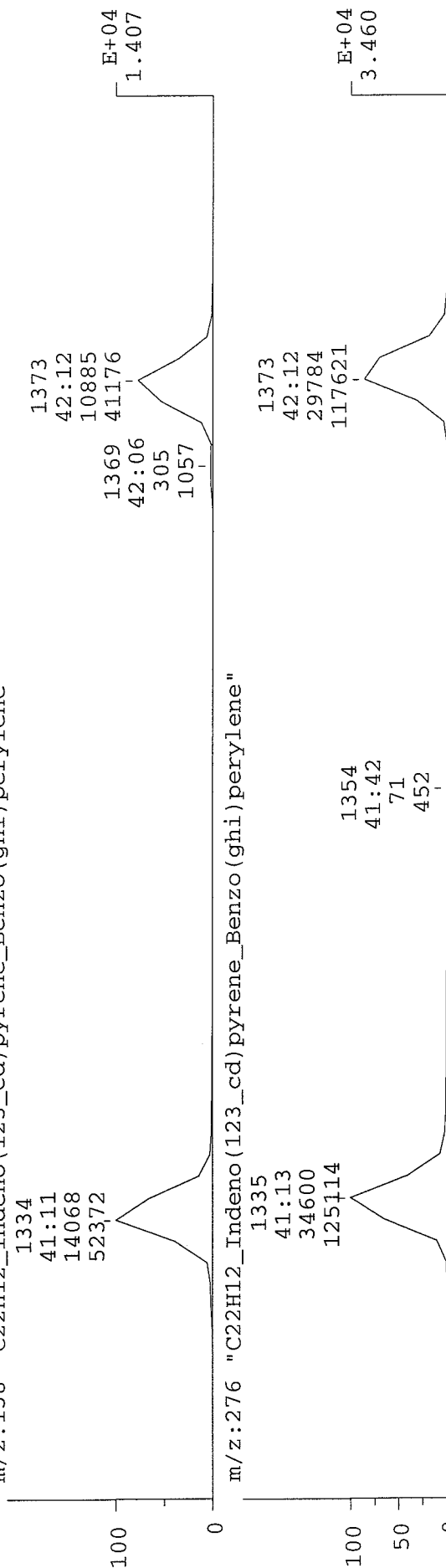


CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1321 > 1387
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

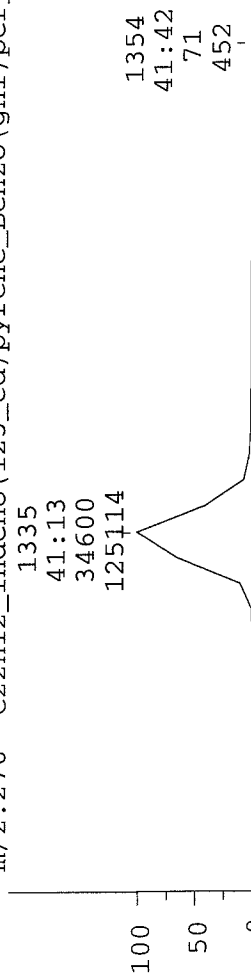
13-APR-06 Elapse: 42:06
Start : 20:30:00

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

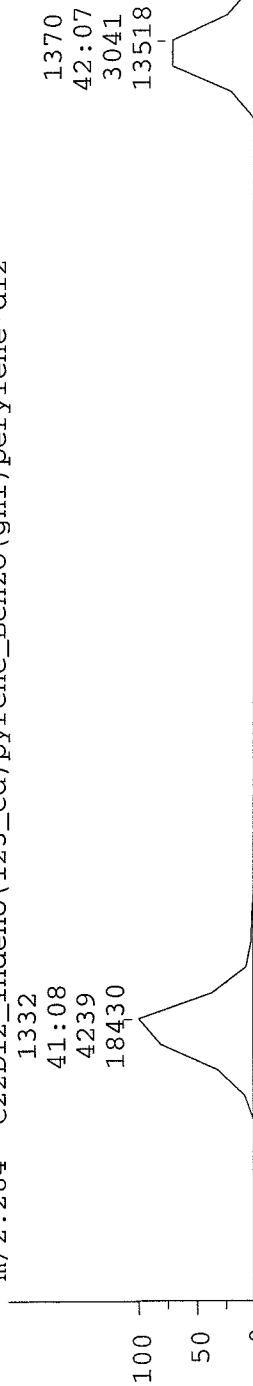
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



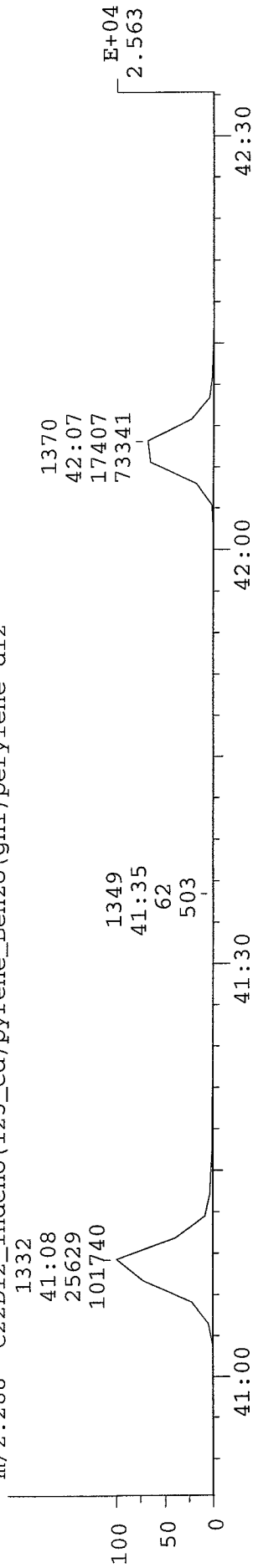
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



CHRO: Y060413s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060413s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

13-APR-06 Elapse: 42:06 1369

Start : 20:30:00 1384

Study : PAH Ver

Inlet :

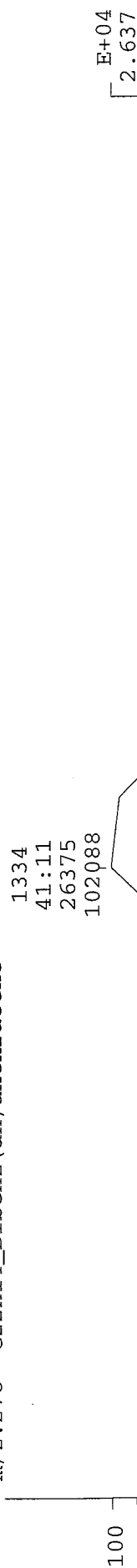
Masses: 0 > 308

Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"



m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: Y60413S2.D
 Date Acquired: 13 Apr 2006 8:30 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060413S2
 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 13 21:50:22 2006
 d:\cdf\files\Y60413S2.CDF Translated at Thu Apr 13 21:50:22 2006 Elapsed: 1 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Thu Apr 13 16:17:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60413s2.dat
 NetCDF File (input): /usr/users/hp/data/y60413s2.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 13 16:17:01 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: LRPAH PAHs and Selected SVOCs - KNOX-ID-0016, Revision 4

Analysis Date:	4/18/06	CCAL Batch/ Scan Name:	2006041852	Instrument:	42A	ICAL Batch/ Scan Name:	20060405i	Scanned ☐
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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 $\leq 25\%$ of the smaller peak? (m/z 252)		✓			✓
5. Is the height of the valley between anthracene and phenanthrene (m/z 178) $\leq 25\%$ of the smaller peak?		✓			✓
6. Is the signal/noise ratio for all natives and labeled analytes $\geq 10:1$ ($\geq 3:1$ allowed for confirmation ions for PAH $\geq C16$)		✓			✓
7. Is the %D or drift $\leq 30\%$ 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?	✓	✓		4/18/06	✓
11. Have manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓	✓		4/18/06	✓
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: 4/18/06	2nd Level Reviewer :	Date: 4/19/06
Comments:		Comments:	

STL KNOXVILLE
SPECIALTY ORGANICS INSTRUMENT H2A RUN LOG

Date	Time	Opr	Sample ID	Filename	Code	Matrix	Type	Tape	Lot#/Comments
4.13.06	17:33	on	MeCl ₂	rinse01	OK	-	QC		flush
4.13.06	19:58	on	2904:28	dfy04136	OK	-	time		DFTPE time.
4.13.06	20:13	on	MeCl ₂	rinse02	OK	-	QC		flush
4.13.06	20:30	on	3377:01-4	dfy041352	OK	-	ver		PAT ver
4.13.06	21:17	on	H2WSQ1AA	yh2wsqb	OK	MR2	QC		H6D100000-000B
4.13.06	22:09	on	H2WSL1AA	yh2wslb	OK	MR2	QC		H6D100000-051B
4.13.06	22:59	on	H2WSQ1AC	yh2wsqc	OK	MR2	QC		H6D100000-060C
4.13.06	23:49	on	H2WSQ1AD	yh2wsqd	OK	MR2	QC		-060L
4.13.06	00:39	on	H2WSL1AC	yh2wslc	OK	MR2	QC		H6D100000-051C
4.13.06	01:28	on	H2WSL1AD	yh2wslld	OK	MR2	QC		-051L
4.13.06	02:15	on	MeCl ₂	rinse03	OK	-	QC		flush
4.13.06	02:32	on	H2H2M1AA	yh2h2m	OK	MR2	SAM		H6D030241-002
4.13.06	03:22	on	H2H2W1AA	yh2h2w	OK	MR2	SAM		-005
4.13.06	04:12	on	H2H2I1AA	yh2h2i	OK	MR2	SAM		-008
4.13.06	05:02	on	H2H231AA	yh2h23	OK	MR2	SAM		-010
4.13.06	05:52	on	H2H251AA	yh2h25	OK	MR2	SAM		-012
4.13.06	06:42	on	H2H271AA	yh2h27	OK	MR2	SAM		-014
4.13.06	18:53	on	2904:28	dfy0418	OK	-	time		DFTPE time
4.13.06	19:24	on	3377:01-4	dfy041852	OK	-	ver		PAT ver.
4.18.06	19:07	on	MeCl ₂	rinse05	OK	-	QC		flush
4.18.06	20:14	on	H2WS41AC	yh2ws4c	OK	MR2	QC		H6D100000-063C
4.18.06	21:04	on	H2WS41AD	yh2ws4d	OK	MR2	QC		-063L
4.18.06	21:51	on	MeCl ₂	rinse06	OK	-	QC		flush
4.18.06	22:05	on	MeCl ₂	rinse07	OK	-	QC		
4.18.06	22:20	on	MeCl ₂	rinse08	OK	-	QC		
4.18.06	22:37	on	H2WS41AA	yh2ws4b	OK	MR2	QC		H6D100000-063B
4.18.06	23:27	on	H2H281AA	yh2h28	OK	MR2	SAM		H6D030241-015
4.19.06	00:17	on	H2H241AA	yh2h24	OK	MR2	SAM		-011
4.19.06	01:07	on	H2H201AA	yh2h20	OK	MR2	SAM		-007
4.19.06	01:56	on	H2H2A1AA	yh2h2a	OK	MR2	SAM		-001
4.19.06	02:46	on	H2H2V1AA	yh2h2v	OK	MR2	SAM		-004
4.19.06	03:36	on	H2H2T1AA	yh2h2t	OK	MR2	SAM		-003

Read and Understood by:

Date:

PAH's by LRMS Extended List

CCAL ID: 16936 - Y060418S2

ICAL Date: 04/05/06

CCAL Filename: y060418s2

Method: YAl - DXLPAH

CCAL Sample ID: 3377:01_4

Instrument: H2A

CCAL Result Dir: /20060418s2/y060418s2.d

Column SN: 695821

CCAL Date/Time: 04/18/06 19:24

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	492.6	1.748	1.722	-1.5	30.0	True
Naphthalene	128	500.0	483.6	1.211	1.171	-3.3	30.0	True
2-Methylnaphthalene	142	500.0	482.0	1.269	1.223	-3.6	30.0	True
2-Methylnaphthalene-d10	152	500.0	515.7	1.104	1.139	3.1	30.0	True
1-Methylnaphthalene	142	500.0	480.5	1.365	1.311	-3.9	30.0	True
1-Methylnaphthalene-d10	152	500.0	519.0	0.958	0.995	3.8	30.0	True
Biphenyl	154	500.0	490.6	1.533	1.504	-1.9	30.0	True
2,6-Dimethylnaphthalene	156	500.0	470.9	1.249	1.177	-5.8	30.0	True
2,6-Dimethylnaphthalene-d12	168	500.0	536.9	0.977	1.049	7.4	30.0	True
Acenaphthylene	152	500.0	476.8	1.244	1.186	-4.6	30.0	True
Acenaphthylene-d8	160	500.0	548.0	1.548	1.697	9.6	30.0	True
Acenaphthene	154	500.0	471.4	0.762	0.719	-5.7	30.0	True
2,3,5-Trimethylnaphthalene	170	500.0	486.0	1.127	1.096	-2.8	30.0	True
Fluorene d-10	176	500.0	478.1	0.837	0.800	-4.4	30.0	True
Fluorene-C13	172	500.0	473.5	0.796	0.754	-5.3	30.0	True
Fluorene	166	500.0	480.5	0.915	0.879	-3.9	30.0	True
Phenanthrene-d10	188	500.0	537.2	0.753	0.809	7.4	30.0	True
Phenanthrene	178	500.0	485.0	1.216	1.180	-3.0	30.0	True
Anthracene-d10	188	500.0	535.4	0.655	0.701	7.1	30.0	True
Anthracene	178	500.0	494.2	1.059	1.047	-1.2	30.0	True
1-Methylphenanthrene	192	500.0	487.0	0.870	0.848	-2.6	30.0	True
Fluoranthene-d10	212	500.0	539.8	0.727	0.784	8.0	30.0	True
Fluoranthene	202	500.0	479.8	1.334	1.280	-4.0	30.0	True
Pyrene	202	500.0	472.4	1.369	1.293	-5.5	30.0	True
Terphenyl-d14	244	500.0	473.4	0.796	0.754	-5.3	30.0	True
Benzo(a)Anthracene-d12	240	500.0	533.4	0.521	0.556	6.7	30.0	True
Benzo(a)anthracene	228	500.0	469.8	1.454	1.366	-6.0	30.0	True
Chrysene-d12	240	500.0	517.6	0.557	0.576	3.5	30.0	True
Chrysene	228	500.0	479.7	1.363	1.308	-4.1	30.0	True
Benzo(b)Fluoranthene-d12	264	500.0	525.9	0.847	0.891	5.2	30.0	True
Benzo(k)Fluoranthene-d12	264	500.0	542.3	1.002	1.087	8.5	30.0	True
Benzo(b)fluoranthene	252	500.0	483.0	1.508	1.456	-3.4	30.0	True
Benzo(k)fluoranthene	252	500.0	471.2	1.136	1.071	-5.8	30.0	True
Benzo(e)pyrene	252	500.0	464.6	1.589	1.476	-7.1	30.0	True
Benzo(a)Pyrene-d12	264	500.0	539.5	0.737	0.795	7.9	30.0	True
Benzo(a)pyrene	252	500.0	479.0	1.333	1.277	-4.2	30.0	True
Perylene-d12	264	500.0	537.6	0.887	0.953	7.5	30.0	True
Perylene	252	500.0	480.3	1.178	1.131	-3.9	30.0	True
Dibenz(ah)Anthracene-d14	292	500.0	521.9	0.405	0.422	4.4	30.0	True
Indeno(1,2,3-cd)pyrene-d12	288	500.0	522.4	0.779	0.814	4.5	30.0	True
Indeno(1,2,3-cd)pyrene	276	500.0	472.7	1.297	1.226	-5.5	30.0	True
Dibenz(a,h)anthracene	278	500.0	468.0	2.059	1.927	-6.4	30.0	True
Benzo(ghi)Perylene-d12	288	500.0	518.6	0.559	0.580	3.7	30.0	True
Benzo(ghi)perylene	276	500.0	470.7	1.698	1.599	-5.9	30.0	True

Handwritten signature: J. 4/25/06
Handwritten text: 4/26/06

PAH's by LRMS Extended List

CCAL ID: 16936 - Y060418S2

ICAL Date: 04/05/06

CCAL Filename: y060418s2

Method: YA1 - DXLPAH

CCAL Sample ID: 3377:01_4

Instrument: H2A

CCAL Result Dir: /20060418s2/y060418s2.d

Column SN: 695821

CCAL Date/Time: 04/18/06 19:24

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	15:58	15:58	0	0.7503	0.7508	-0.0005
Naphthalene	16:02	16:01	-1	1.0036	1.0031	0.0004
2-Methylnaphthalene	18:04	18:03	-1	1.0048	1.0046	0.0001
2-Methylnaphthalene-d10	17:59	17:58	-1	0.8448	0.8448	0.0000
1-Methylnaphthalene	18:24	18:23	-1	1.0055	1.0046	0.0009
1-Methylnaphthalene-d10	18:18	18:18	0	0.8598	0.8605	-0.0007
Biphenyl	19:27	19:27	0	1.0818	1.0826	-0.0007
2,6-Dimethylnaphthalene	19:56	19:56	0	1.0060	1.0076	-0.0016
2,6-Dimethylnaphthalene-d12	19:49	19:47	-2	0.9310	0.9303	0.0007
Acenaphthylene	20:49	20:49	0	1.0009	1.0024	-0.0015
Acenaphthylene-d8	20:48	20:46	-2	0.9772	0.9765	0.0007
Acenaphthene	21:23	21:21	-2	1.0280	1.0281	0.0000
2,3,5-Trimethylnaphthalene	22:30	22:28	-2	1.1354	1.1356	-0.0002
Fluorene d-10	22:48	22:48	0	0.8856	0.8866	-0.0010
Fluorene-C13	22:53	22:52	-1	0.8887	0.8892	-0.0005
Fluorene	22:53	22:52	-1	0.8888	0.8892	-0.0004
Phenanthrene-d10	25:45	25:43	-2	0.8568	0.8563	0.0006
Phenanthrene	25:49	25:47	-2	1.0026	1.0026	0.0000
Anthracene-d10	25:53	25:52	-1	0.8613	0.8613	0.0000
Anthracene	25:56	25:56	0	1.0073	1.0084	-0.0011
1-Methylphenanthrene	27:42	27:40	-2	1.0757	1.0758	-0.0001
Fluoranthene-d10	29:22	29:21	-1	0.9773	0.9772	0.0000
Fluoranthene	29:25	29:24	-1	1.0017	1.0017	0.0000
Pyrene	30:06	30:05	-1	1.0250	1.0250	0.0000
Terphenyl-d14	30:31	30:31	0	1.0393	1.0398	-0.0004
Benzo(a)Anthracene-d12	33:37	33:37	0	1.1188	1.1193	-0.0005
Benzo(a)anthracene	33:41	33:40	-1	1.0019	1.0015	0.0004
Chrysene-d12	33:45	33:44	-1	1.1230	1.1232	-0.0001
Chrysene	33:49	33:48	-1	1.0020	1.0020	0.0000
Benzo(b)Fluoranthene-d12	36:36	36:35	-1	0.9786	0.9786	0.0000
Benzo(k)Fluoranthene-d12	36:40	36:40	0	0.9805	0.9808	-0.0003
Benzo(b)fluoranthene	36:40	36:39	-1	1.0018	1.0018	0.0000
Benzo(k)fluoranthene	36:43	36:42	-1	1.0014	1.0009	0.0005
Benzo(e)pyrene	37:28	37:27	-1	0.9976	0.9973	0.0003
Benzo(a)Pyrene-d12	37:33	37:33	0	1.0042	1.0045	-0.0003
Benzo(a)pyrene	37:37	37:36	-1	1.0016	1.0013	0.0003
Perylene-d12	37:47	37:46	-1	1.0103	1.0103	0.0000
Perylene	37:51	37:50	-1	1.0018	1.0018	0.0000
Dibenz(ah)Anthracene-d14	41:07	41:05	-2	1.0993	1.0990	0.0003
Indeno(1,2,3-cd)pyrene-d12	41:09	41:08	-1	1.1001	1.1003	-0.0002
Indeno(1,2,3-cd)pyrene	41:13	41:13	0	1.0020	1.0020	-0.0001
Dibenz(a,h)anthracene	41:13	41:11	-2	1.0025	1.0024	0.0001
Benzo(ghi)Perylene-d12	42:07	42:06	-1	1.1261	1.1262	-0.0001
Benzo(ghi)perylene	42:14	42:12	-2	1.0028	1.0024	0.0005

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



IsoCalc

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060418s2/y060418s2.d	Prep Date	SDG No
Analysis ID 90112	Prep Exp Date	Date Received
Analysis Date 4/18/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 19:24	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAl
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:58	167013	49889	1.748	500.0	492.572333	98.51	492.572333	0.156
Naphthalene	16:01	195576	61378	1.211	500.0	483.575812	96.72	483.575812	0.166
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene					500.0			ND	0.000000
2-Methylnaphthalene	18:03	135030	54138	1.269	500.0	481.968444	96.39	481.968444	0.137
2-Methylnaphthalene-d10	17:58	110423	43047	1.104	500.0	515.722752	103.14	515.722752	0.123
1-Methylnaphthalene	18:23	126529	52019	1.365	500.0	480.491658	96.10	480.491658	0.161
1-Methylnaphthalene-d10	18:18	96478	34124	0.958	500.0	518.994472	103.80	518.994472	0.142
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	166068	76457	1.533	500.0	490.585522	98.12	490.585522	0.246
2,6-Dimethylnaphthalene	19:56	119678	48863	1.249	500.0	470.864718	94.17	470.864718	0.550
2,6-Dimethylnaphthalene-d1	19:47	101717	43659	0.977	500.0	536.901516	107.38	536.901516	0.244
C2 Alkyl naphthalenes				1.249		470.864718		470.864718	0.481
Acenaphthylene	20:49	195138	67176	1.244	500.0	476.815340	95.36	476.815340	0.0536
Acenaphthylene-d8	20:46	164554	74949	1.548	500.0	547.982451	109.60	547.982451	0.110
Acenaphthene-d10	21:16	96979	36773	1.000	500.0	500.000000	100.00	500.000000	0.204
Acenaphthene	21:21	118273	47936	0.762	500.0	471.427894	94.29	471.427894	0.284
2,3,5-Trimethylnaphthalene	22:28	111442	50026	1.127	500.0	486.044038	97.21	486.044038	0.102
C3 Alkyl naphthalenes				1.127		486.044038		486.044038	0.0889
Fluorene d-10	22:48	134945	63347	0.837	500.0	478.124228	95.62	478.124228	0.0988
Fluorene-Cl3	22:52	127158	45598	0.796	500.0	473.462587	94.69	473.462587	0.0831
Fluorene	22:52	148276	63060	0.915	500.0	480.470657	96.09	480.470657	0.126
Phenanthrene-d10	25:43	168634	75600	0.753	500.0	537.202541	107.44	537.202541	0.133
Phenanthrene	25:47	198956	92609	1.216	500.0	484.979537	97.00	484.979537	0.0816
Anthracene-d10	25:52	146096	50475	0.655	500.0	535.359549	107.07	535.359549	0.153
Anthracene	25:56	176513	78260	1.059	500.0	494.234160	98.85	494.234160	0.0937
1-Methylphenanthrene	27:40	142939	60735	0.870	500.0	486.978935	97.40	486.978935	0.190
Fluoranthene-d10	29:21	163465	75918	0.727	500.0	539.845341	107.97	539.845341	0.138
Fluoranthene	29:24	209198	95208	1.334	500.0	479.760695	95.95	479.760695	0.0864
Pyrene-d10	30:02	208379	87246	1.000	500.0	500.000000	100.00	500.000000	0.100
Pyrene	30:05	211387	88122	1.369	500.0	472.368012	94.47	472.368012	0.0842
Terphenyl-d14	30:31	123194	55721	0.796	500.0	473.354139	94.67	473.354139	0.0207
Benzo(a)Anthracene-d12	33:37	115822	51746	0.521	500.0	533.433791	106.69	533.433791	0.193
Benzo(a)anthracene	33:40	158190	67605	1.454	500.0	469.773522	93.95	469.773522	0.116
Chrysene-d12	33:44	120097	54396	0.557	500.0	517.614471	103.52	517.614471	0.180
Chrysene	33:48	157028	74243	1.363	500.0	479.656254	95.93	479.656254	0.118
Benzo(b)Fluoranthene-d12	36:35	107723	45573	0.847	500.0	525.921702	105.18	525.921702	0.700
Benzo(k)Fluoranthene-d12	36:40	131439	48168	1.002	500.0	542.257216	108.45	542.257216	0.592
Benzo(b)fluoranthene	36:39	156879	64038	1.508	500.0	482.990518	96.60	482.990518	0.710
Benzo(k)fluoranthene	36:42	140779	54740	1.136	500.0	471.214144	94.24	471.214144	0.891
Benzo(e)pyrene-d12	37:23	120898	46357	1.000	500.0	500.000000	100.00	500.000000	0.593
Benzo(e)pyrene	37:27	141892	56544	1.589	500.0	464.613325	92.92	464.613325	0.912
Benzo(a)Pyrene-d12	37:33	96127	33638	0.737	500.0	539.487792	107.90	539.487792	0.805
Benzo(a)pyrene	37:36	122722	47431	1.333	500.0	478.985641	95.80	478.985641	1.09
Perylene-d12	37:46	115237	39865	0.887	500.0	537.592998	107.52	537.592998	0.669
Perylene	37:50	130359	46642	1.178	500.0	480.274958	96.05	480.274958	1.04
3-Methylcholanthrene					500.0			ND	0.000000

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060418s2/y060418s2.d	Prep Date	SDG No
Analysis ID 90112	Prep Exp Date	Date Received
Analysis Date 4/18/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 19:24	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	41:05	51054	14733	0.405	500.0	521.870968	104.37	521.870968	0.467
Indeno(1,2,3-cd)pyrene-d12	41:08	98401	22391	0.779	500.0	522.391383	104.48	522.391383	0.312
Indeno(1,2,3-cd)pyrene	41:13	120640	30347	1.297	500.0	472.705917	94.54	472.705917	0.430
Dibenz(a,h)anthracene	41:11	98379	27922	2.059	500.0	468.010917	93.60	468.010917	0.412
Benzo(ghi)Perylene-d12	42:06	70131	18451	0.559	500.0	518.601888	103.72	518.601888	0.434
Benzo(ghi)perylene	42:12	112121	30507	1.698	500.0	470.727946	94.15	470.727946	0.399
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene					500.0			ND	0.000000



PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060418s2/y060418s2.	Prep Date	SDG No
Analysis ID 90112	Prep Exp Date	Date Received
Analysis Date 04/18/06 19:24	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	16:01	16:01	0	195576		61378			ABV
136					136.0000		136.0000			
	Noise	00:00	00:00	0	20		8			
	Naphthalene-d8	15:58	15:57	1	167013		49889			ABV
142					142.0000		142.0000			
	Noise	00:00	00:00	0	15		6			
	2-Methylnaphthalene	18:03	18:03	0	135030		54138			AVV
	1-Methylnaphthalene	18:23	18:23	0	126529		52019			AVB
152					152.0000		152.0000			
	Noise	00:00	00:00	0	10		4			
	2-Methylnaphthalene-d10	17:58	17:58	0	110423		43047			ABV
	1-Methylnaphthalene-d10	18:18	18:17	1	96478		34124			AVV
	Acenaphthylene	20:49	20:48	1	195138		67176			ABB
154					154.0000		154.0000			
	Noise	00:00	00:00	0	33		13			
	Biphenyl	19:27	19:26	1	166068		76457			ABB
	Acenaphthene	21:21	21:22	-1	118273		47936			ABB
156					156.0000		156.0000			
	Noise	00:00	00:00	0	60		24			
	2,6-Dimethylnaphthalene	19:56	19:55	1	119678		48863			ABB
160					160.0000		160.0000			
	Noise	00:00	00:00	0	13		5			
	Acenaphthylene-d8	20:46	20:47	-1	164554		74949			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	21:16	0	96979		36773			ABB
166					166.0000		166.0000			
	Noise	00:00	00:00	0	18		7			
	Fluorene	22:52	22:52	0	148276		63060			AVB
168					168.0000		168.0000			
	Noise	00:00	00:00	0	18		7			
	2,6-Dimethylnaphthalene	19:47	19:48	-1	101717		43659			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	22:29	-1	111442		50026			ABB
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



PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060418s2/y060418s2.	Prep Date	SDG No
Analysis ID 50112	Prep Exp Date	Date Received
Analysis Date 04/18/06 19:24	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	127158	✓	45598			ABV	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	13		5				
	Fluorene d-10	22:48	22:47	1	134945	✓	63347			ABV	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	15		6				
	Phenanthrene	25:47	25:48	-1	198956		92609			ABV	
	Anthracene	25:56	25:55	1	176513		78260			AVV	
188					188.0000		188.0000				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene-d10	25:43	25:44	-1	168634		75600			ABV	
	Anthracene-d10	25:52	25:52	0	146096		50475			AVB	
192					192.0000		192.0000				
	Noise	00:00	00:00	0	25		10				
	1-Methylphenanthrene	27:40	27:41	-1	142939		60735			ABB	
202					202.0000		202.0000				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene	29:24	29:24	0	209198		95208			ABV	
	Pyrene	30:05	30:05	0	211387		88122			ABV	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene-d10	29:21	29:21	0	163465		75918			ABV	
	Pyrene-d10	30:02	30:02	0	208379		87246			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)anthracene	33:40	33:40	0	158190		67605			ABV	
	Chrysene	33:48	33:48	0	157028		74243			AVB	
240					240.0000		240.0000				
	Noise	00:00	00:00	0	18		7				
	Benzo(a)Anthracene-d12	33:37	33:36	1	115822		51746			ABV	
	Chrysene-d12	33:44	33:44	0	120097		54396			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	3		1				
	Terphenyl-d14	30:31	30:30	1	123194	✓	55721				M
252					252.0000		252.0000				
	Noise	00:00	00:00	0	98		39				
	Benzo(b)fluoranthene	36:39	36:39	0	156879		64038			ABV	
	Benzo(k)fluoranthene	36:42	36:42	0	140779		54740			AVB	
	Benzo(e)pyrene	37:27	37:27	0	141892		56544			AVV	
	Benzo(a)pyrene	37:36	37:36	0	122722		47431			AVV	
	Perylene	37:50	37:50	0	130359		46642			AVV	
264					264.0000		264.0000				

Notes:
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PAH's by LRMS Extended List

Workorder 3377:01_4	Prep Batch	Lot No
Data File /20060418s2/y060418s2.	Prep Date	SDG No
Analysis ID 90112	Prep Exp Date	Date Received
Analysis Date 04/18/06 19:24	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	55		22			
	Benzo(b)Fluoranthene-d1	36:35	36:35	0	107723		45573			ABV
	Benzo(k)Fluoranthene-d1	36:40	36:39	1	131439		48168			ABV
	Benzo(e)pyrene-d12	37:23	37:23	0	120898		46357			ABV
	Benzo(a)Pyrene-d12	37:33	37:32	1	96127		33638			AVV
	Perylene-d12	37:46	37:46	0	115237		39865			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	25		10			
	Indeno(1,2,3-cd)pyrene	41:13	41:12	1	120640		30347			ABV
	Benzo(ghi)perylene	42:12	42:13	-1	112121		30507			ABB
278					278.0000		278.0000			
	Noise	00:00	00:00	0	25		10			
	Dibenz(a,h)anthracene	41:11	41:12	-1	98379		27922			ABB
288					288.0000		288.0000			
	Noise	00:00	00:00	0	23		9			
	Indeno(1,2,3-cd)pyrene-	41:08	41:08	0	98401		22391			ABV
	Benzo(ghi)Perylene-d12	42:06	42:06	0	70131		18451			ABB
292					292.0000		292.0000			
	Noise	00:00	00:00	0	18		7			
	Dibenz(ah)Anthracene-d1	41:05	41:06	-1	51054		14733			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			

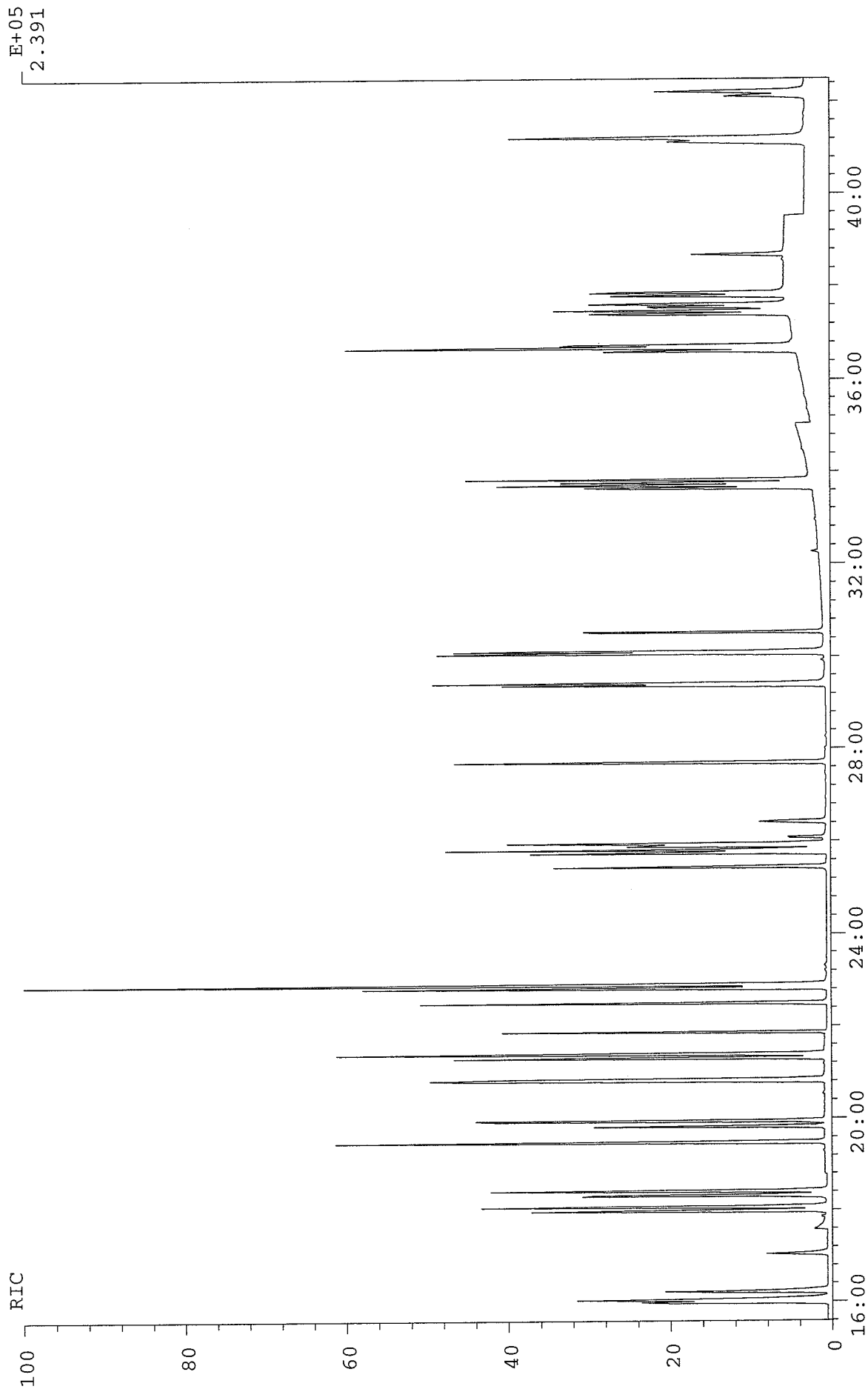
Notes:
 R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
 T = peaks outside comax limit D = peak outside RT window W = peak outside first/last X = peak has dup match

CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1 > 1384
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 15:36.1
Start : 19:24:00
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : 0, 3.0

1
1384

Int/Calc: 4/18/06
QC WML 4/19/06



Data File: /var/chem/gcms/my.i/y060418s2.b/dfy04186.d

Date : 18-APR-2006 18:53

Client ID: Tune

Instrument: my.i

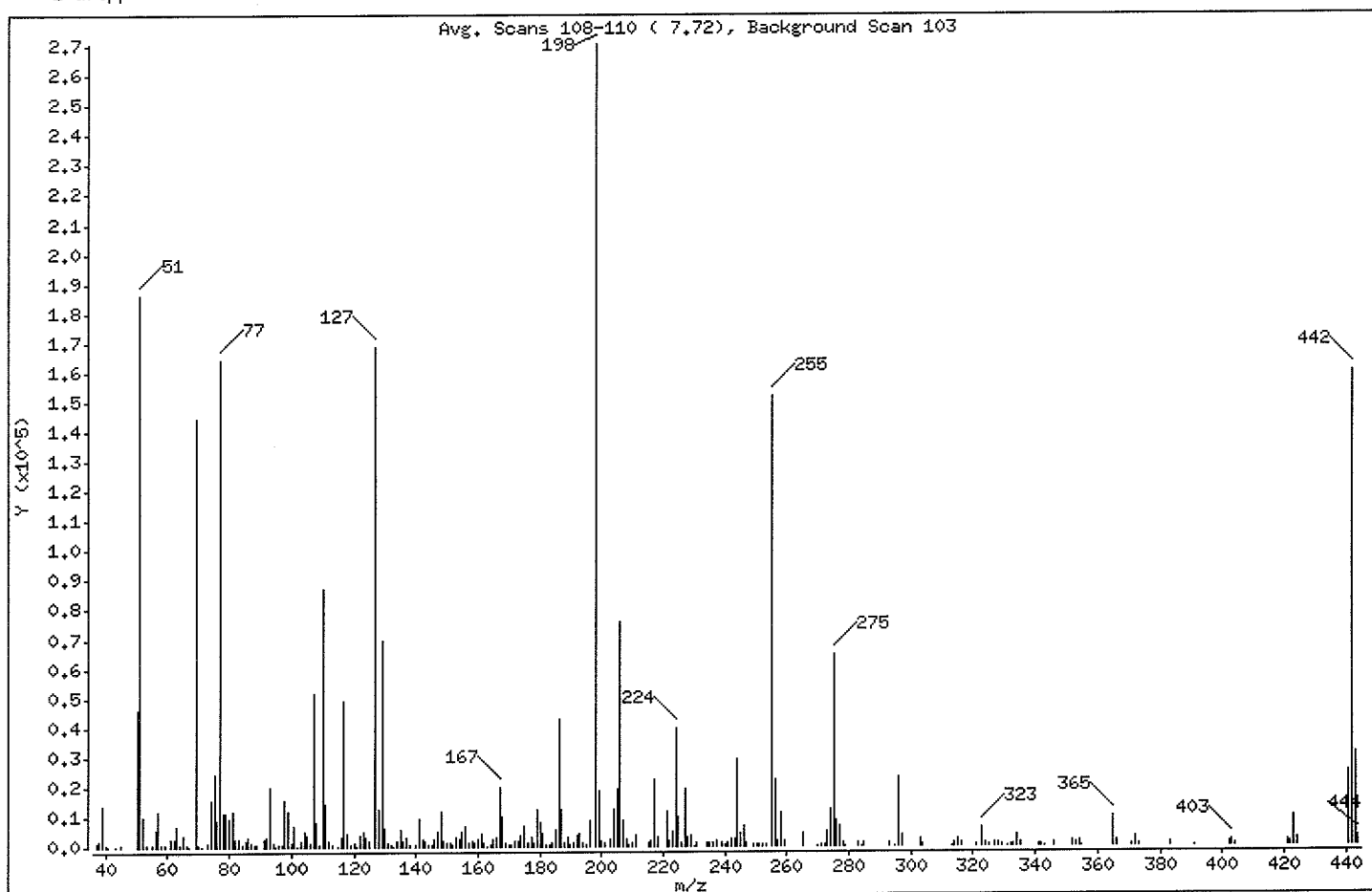
Sample Info: DFY04186

Operator:

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	68.85
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	53.40
70	Less than 2.00% of mass 69	0.33 (0.62)
127	25.00 - 75.00% of mass 198	62.34
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.96
275	10.00 - 30.00% of mass 198	23.93
365	Greater than 0.75% of mass 198	3.69
441	Present, but less than mass 443	9.16
442	40.00 - 110.00% of mass 198	59.03
443	15.00 - 24.00% of mass 442	11.53 (19.53)

Data File: /var/chem/gcms/my.i/y060418s2.b/dfy04186.d

Date : 18-APR-2006 18:53

Client ID: Tune

Instrument: my.i

Sample Info: DFY04186

Operator:

Column phase: HP5-MS

Column diameter: 0,25

Data File: dfy04186.d

Spectrum: Avg. Scans 108-110 (7.72), Background Scan 103

Location of Maximum: 198.00

Number of points: 259

m/z	Y	m/z	Y	m/z	Y	m/z	Y

37.00	1092	113.00	726	181.00	4357	258.00	11505
38.00	1891	115.00	227	182.00	566	259.00	1898
39.00	13601	116.00	3224	183.00	382	265.00	4299
40.00	510	117.00	49104	184.00	1266	270.00	64
41.00	131	118.00	4392	185.00	5797	271.00	404

43.00	54	119.00	508	186.00	42864	272.00	437
45.00	653	120.00	1246	187.00	12383	273.00	4702
50.00	46224	121.00	239	188.00	1368	274.00	12242
51.00	186368	122.00	3638	189.00	3327	275.00	64776
52.00	9680	123.00	5281	190.00	781	276.00	8517

53.00	573	124.00	2887	191.00	1060	277.00	6957
55.00	865	125.00	2000	192.00	3988	278.00	1284
56.00	5582	127.00	168768	193.00	4573	279.00	193
57.00	12135	128.00	12618	194.00	959	283.00	1020
58.00	813	129.00	69616	195.00	723	284.00	211

59.00	410	130.00	5960	196.00	8528	285.00	1140
61.00	2394	131.00	1097	198.00	270720	293.00	1522
62.00	2527	132.00	344	199.00	18840	295.00	290
63.00	7154	133.00	140	200.00	1744	296.00	23224
64.00	922	134.00	2029	201.00	1401	297.00	3572

65.00	3720	135.00	5307	203.00	2182	303.00	2466
66.00	387	136.00	2013	204.00	12269	304.00	477
67.00	179	137.00	3285	205.00	19000	313.00	191
69.00	144512	138.00	451	206.00	75624	314.00	1149
70.00	890	140.00	850	207.00	8930	315.00	2794

71.00	20	141.00	9293	208.00	2655	316.00	1381
73.00	1104	142.00	2763	209.00	551	321.00	436
74.00	15502	143.00	2129	210.00	1168	323.00	6105
75.00	24216	144.00	735	211.00	3539	324.00	1165
76.00	8863	145.00	784	215.00	993	325.00	461

77.00	164160	146.00	2299	216.00	1991	327.00	1447
78.00	11083	147.00	5052	217.00	22176	328.00	1236
79.00	10983	148.00	11641	218.00	2834	329.00	400
80.00	9097	149.00	1937	221.00	11660	331.00	294
81.00	11621	150.00	955	222.00	1949	332.00	853

m/z	Y	m/z	Y	m/z	Y	m/z	Y
82.00	2760	151.00	1206	223.00	5023	333.00	849
83.00	2418	152.00	589	224.00	39896	334.00	3878
84.00	795	153.00	2942	225.00	10037	335.00	1073
85.00	2103	154.00	2375	226.00	1244	341.00	762
86.00	3236	155.00	4922	227.00	19536	342.00	540
87.00	1120	156.00	7055	228.00	2996	343.00	217
88.00	522	157.00	1195	229.00	3956	346.00	1445
89.00	544	158.00	1656	230.00	53	352.00	2115
91.00	2654	159.00	1374	231.00	1306	353.00	1519
92.00	3275	160.00	2740	234.00	1361	354.00	1926
93.00	20208	161.00	4093	235.00	1453	355.00	302
94.00	1520	162.00	1497	236.00	1077	365.00	9997
95.00	244	163.00	296	237.00	1678	366.00	1633
96.00	756	164.00	684	239.00	1343	371.00	379
97.00	647	165.00	2582	240.00	511	372.00	3018
98.00	15432	166.00	2870	241.00	1236	373.00	854
99.00	11782	167.00	19664	242.00	2238	383.00	980
100.00	1274	168.00	9734	243.00	2294	391.00	207
101.00	6745	169.00	1107	244.00	29376	402.00	1358
102.00	67	170.00	686	245.00	4299	403.00	1771
103.00	1906	171.00	837	246.00	6803	404.00	626
104.00	4865	172.00	1803	247.00	1477	421.00	1578
105.00	3879	173.00	2149	249.00	769	422.00	1252
106.00	1062	174.00	3899	250.00	395	423.00	9879
107.00	51520	175.00	6537	251.00	340	424.00	2212
108.00	8113	176.00	1414	252.00	736	441.00	24784
109.00	491	177.00	3186	253.00	718	442.00	159808
110.00	87176	178.00	1182	255.00	152000	443.00	31208
111.00	14042	179.00	12624	256.00	22176	444.00	3032
112.00	1841	180.00	8164	257.00	2114		

Data File: /var/chem/gcms/my.i/y060418s2.b/dfy04186.d

Date : 18-APR-2006 18:53

Client ID: Tune

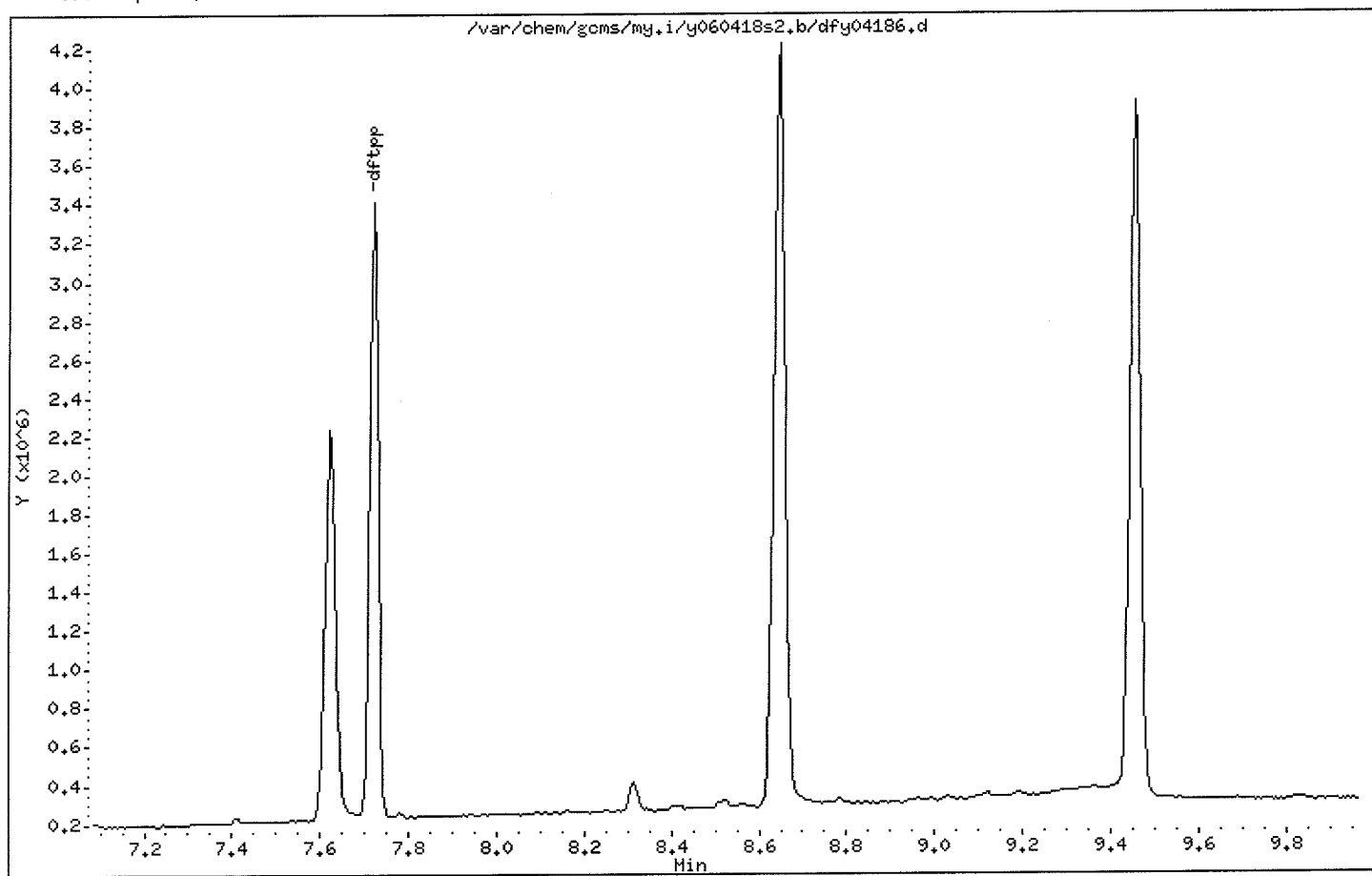
Instrument: my.i

Sample Info: DFY04186

Operator:

Column phase: HP5-MS

Column diameter: 0.25



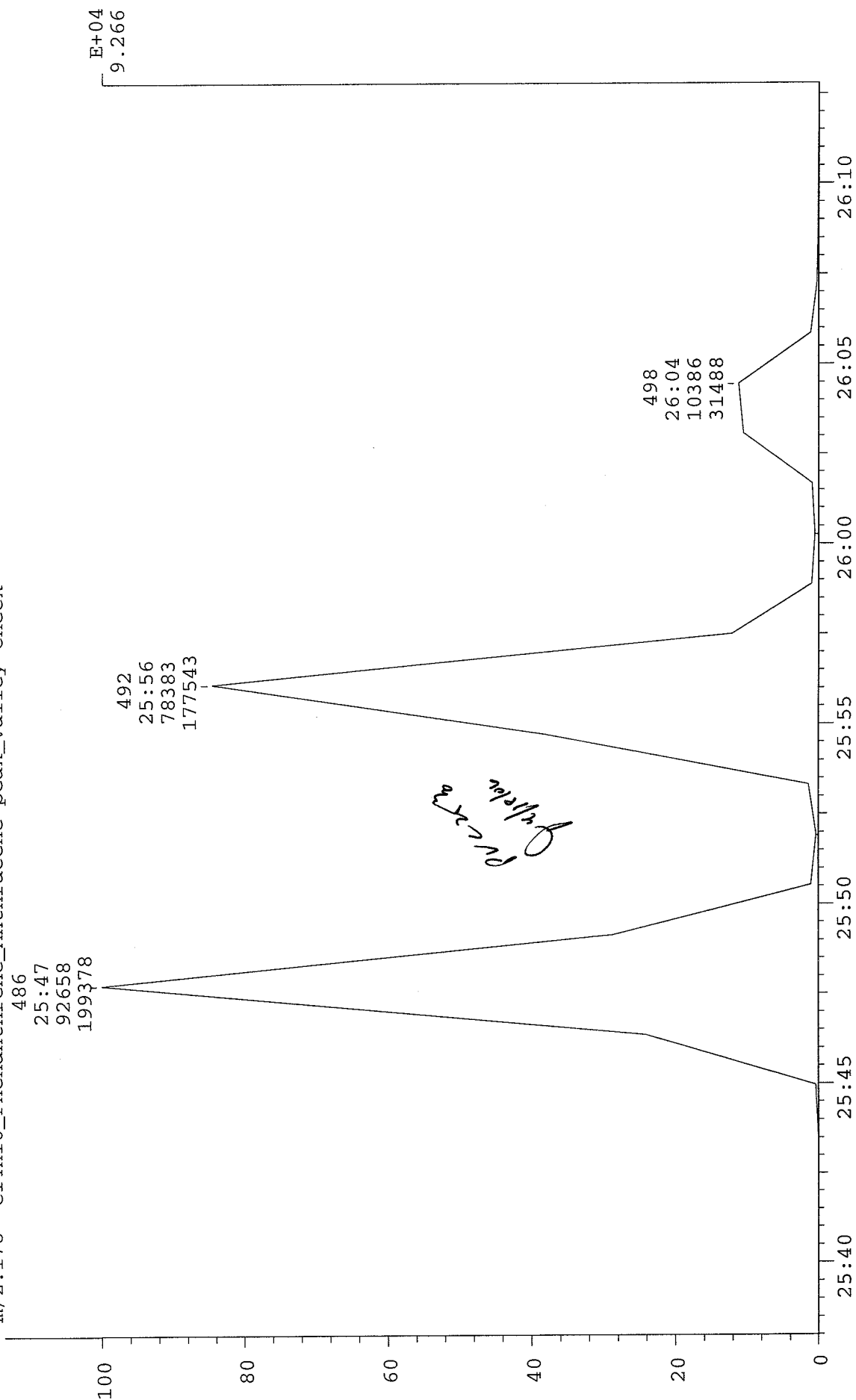
CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 40:57
Start : 19:24:00

1325
1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

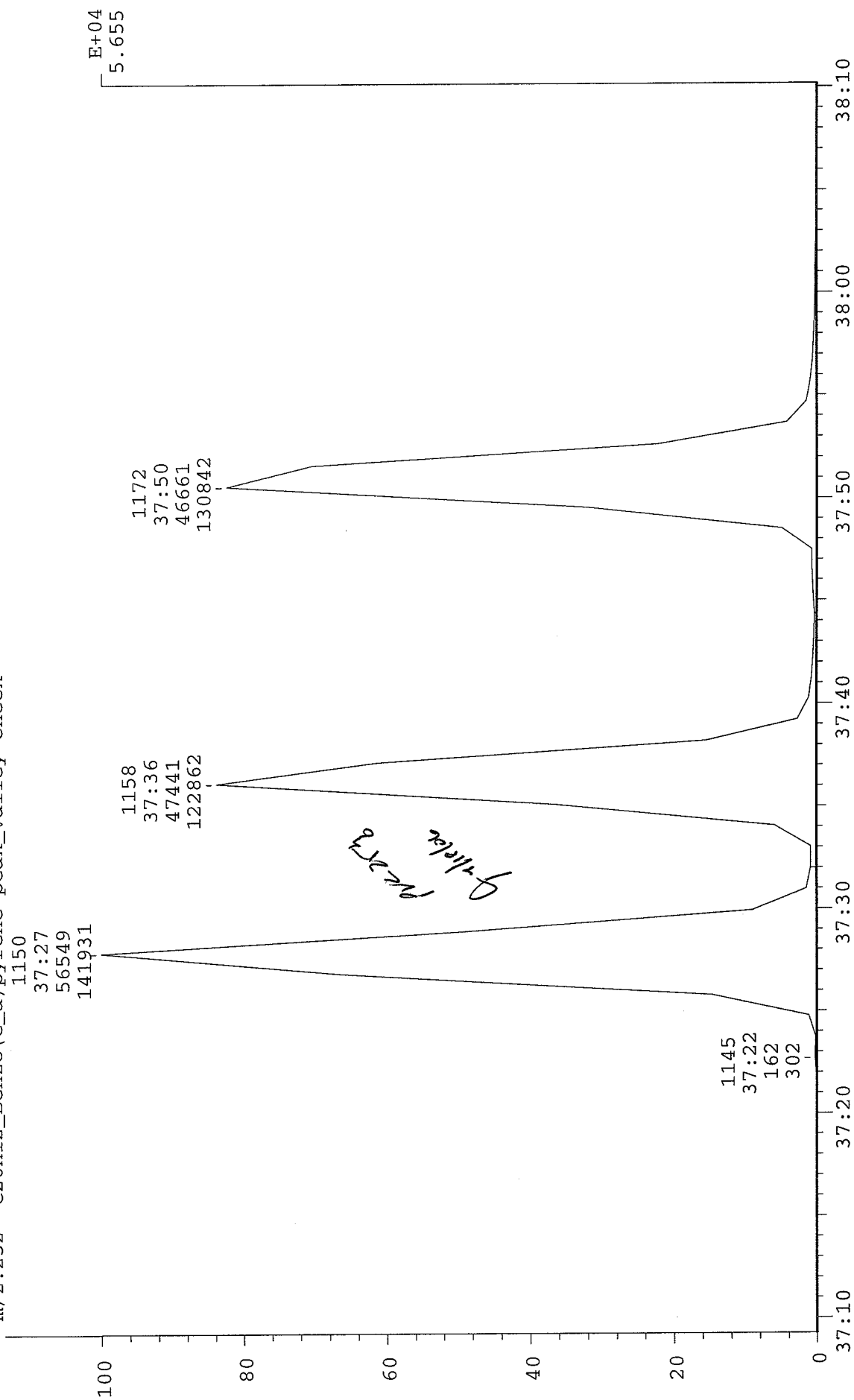
m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

18-APR-06 Elapse: 40:57 1325
Start : 19:24:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

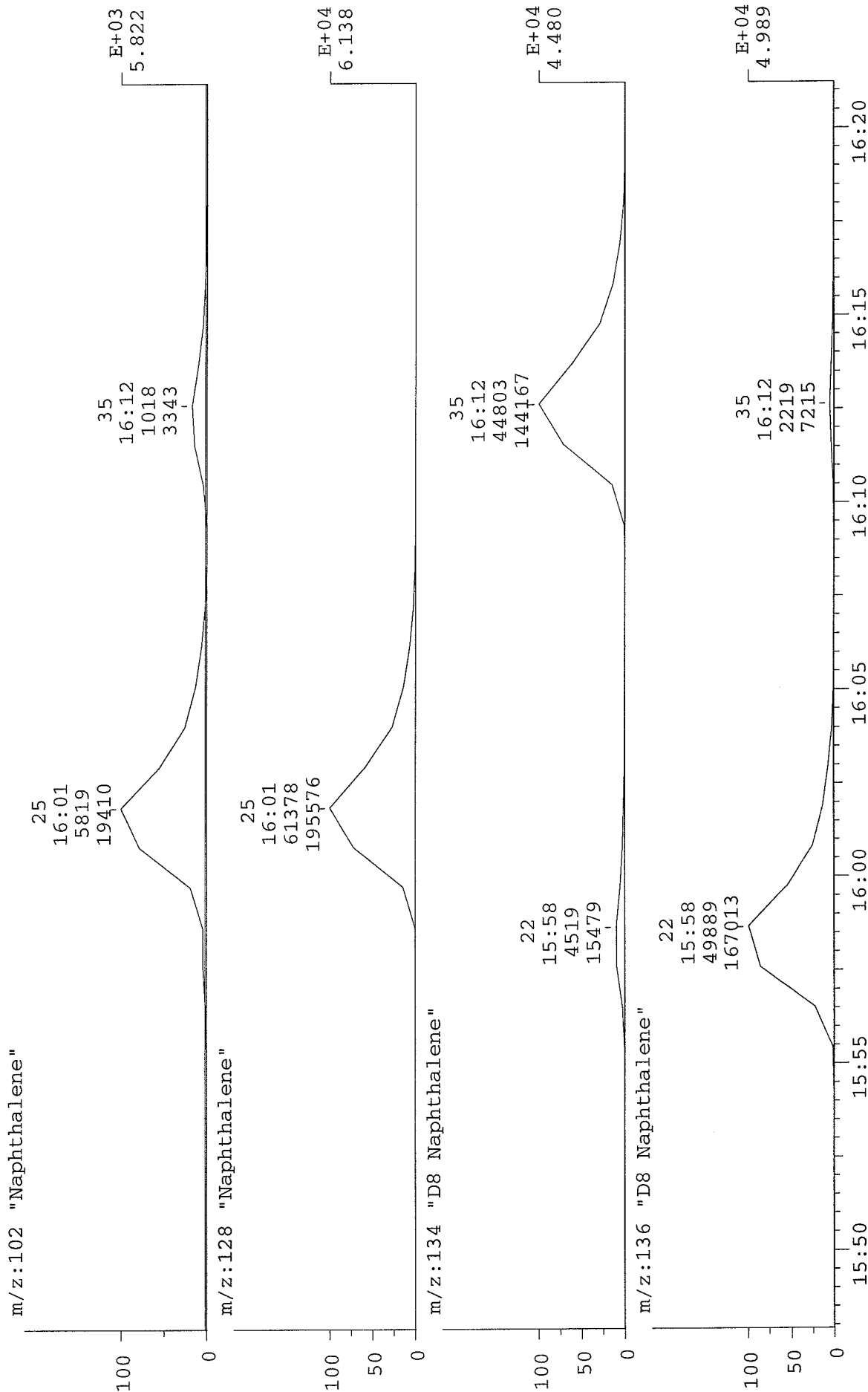
m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



CHRO: Y060418s2
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 12 > 43
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

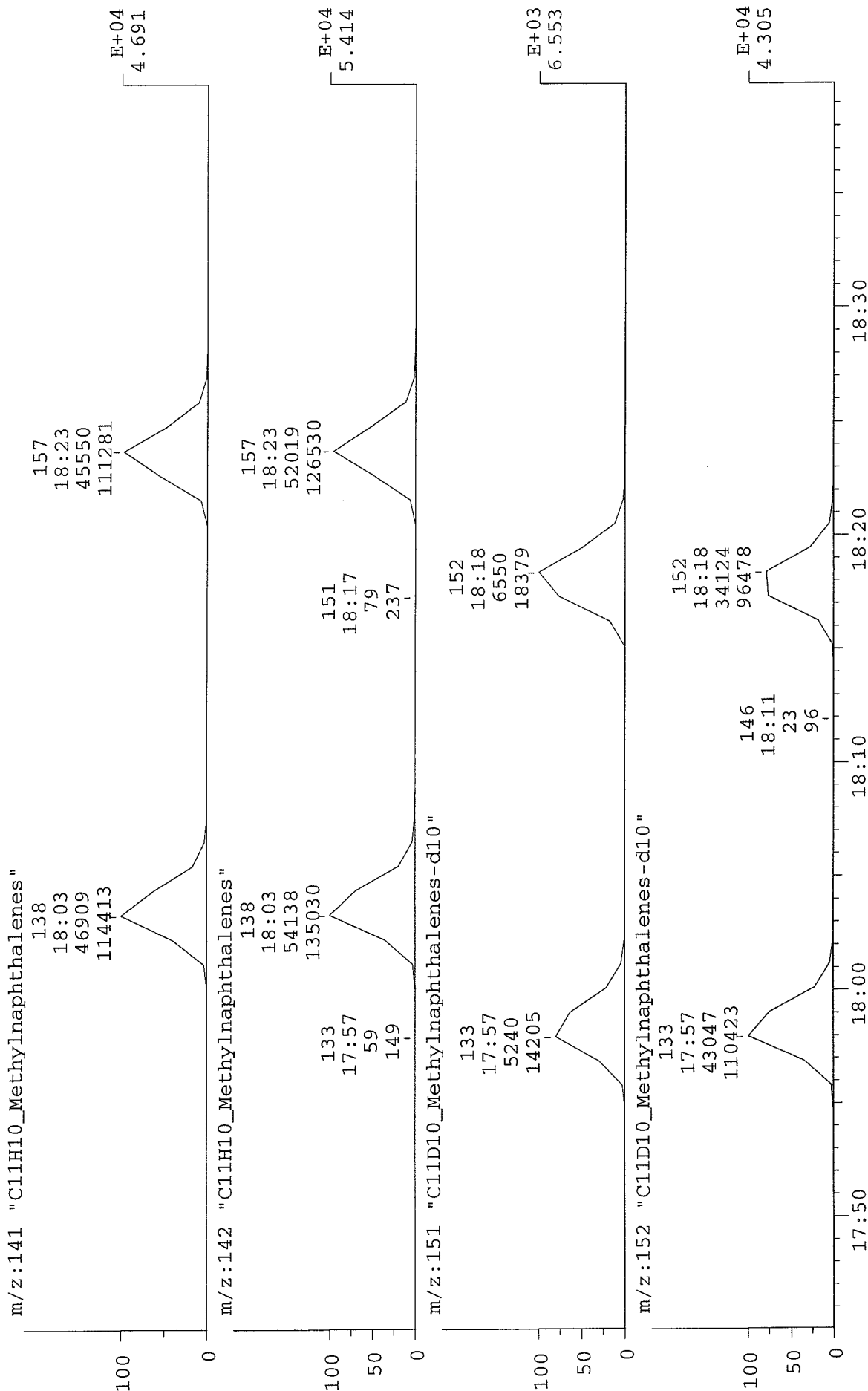
18-APR-06 Elapse: 39:44 1278
 Start : 19:24:00 1384

Study : PAH Ver
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

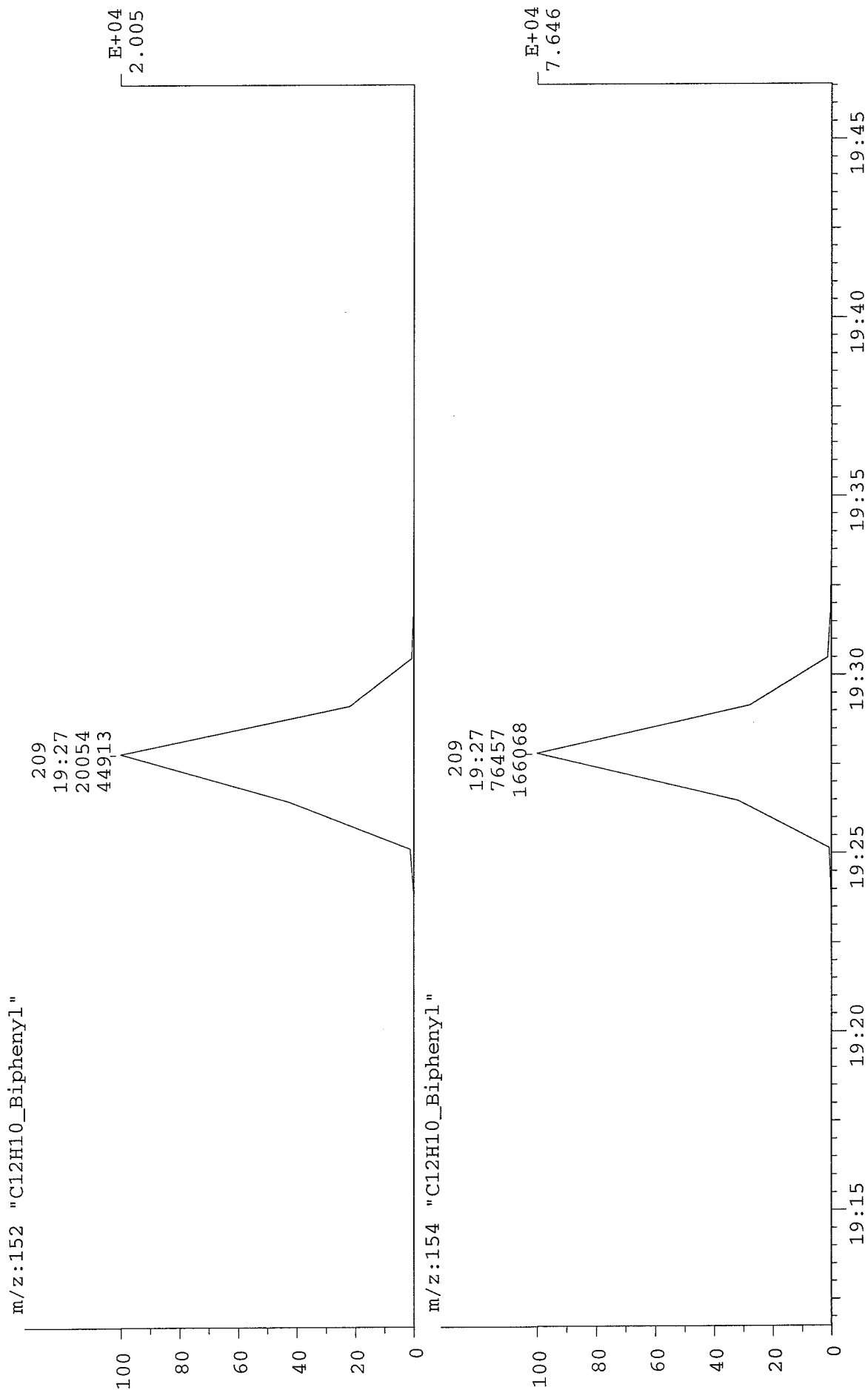
18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 197 > 223
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"



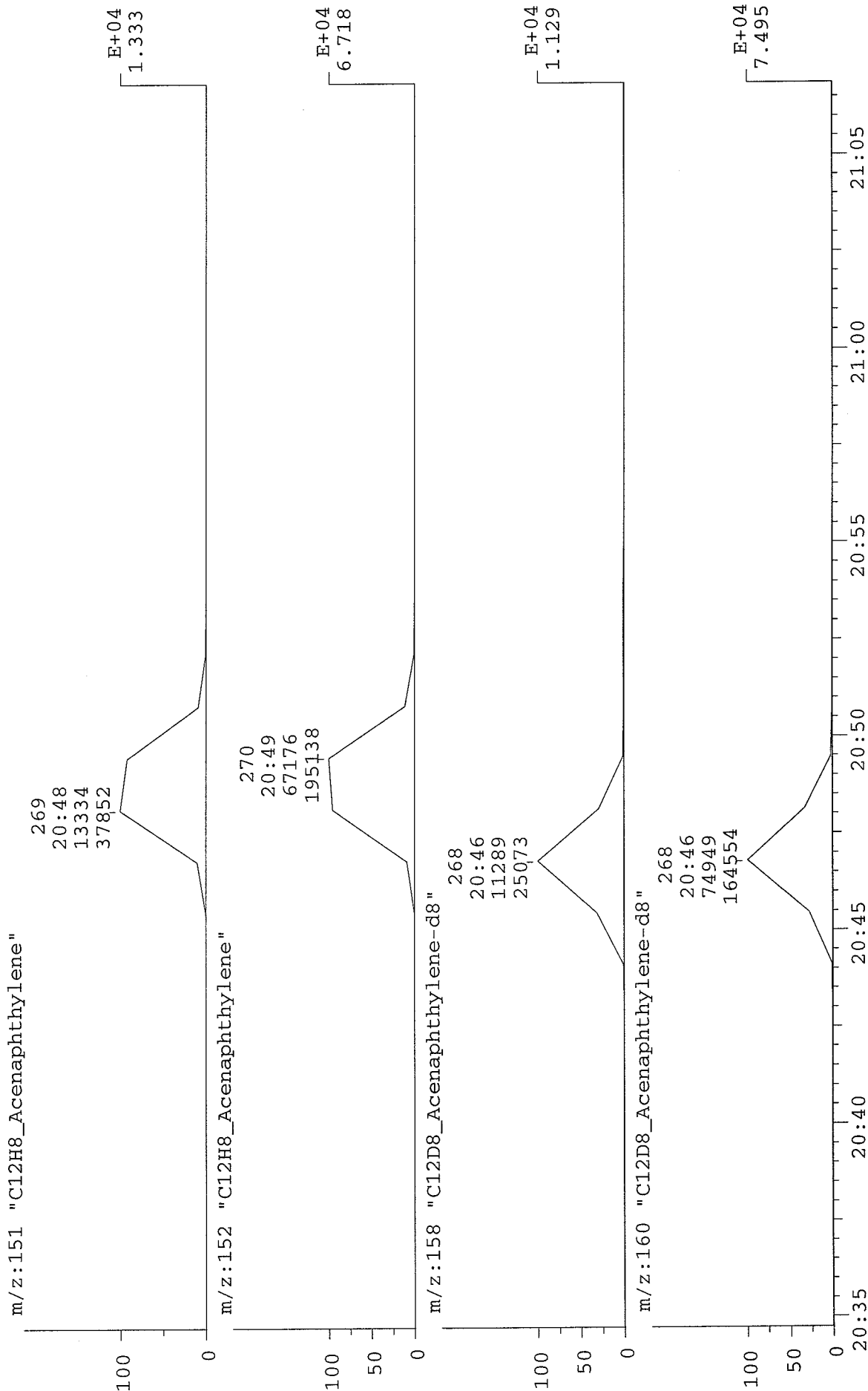
m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

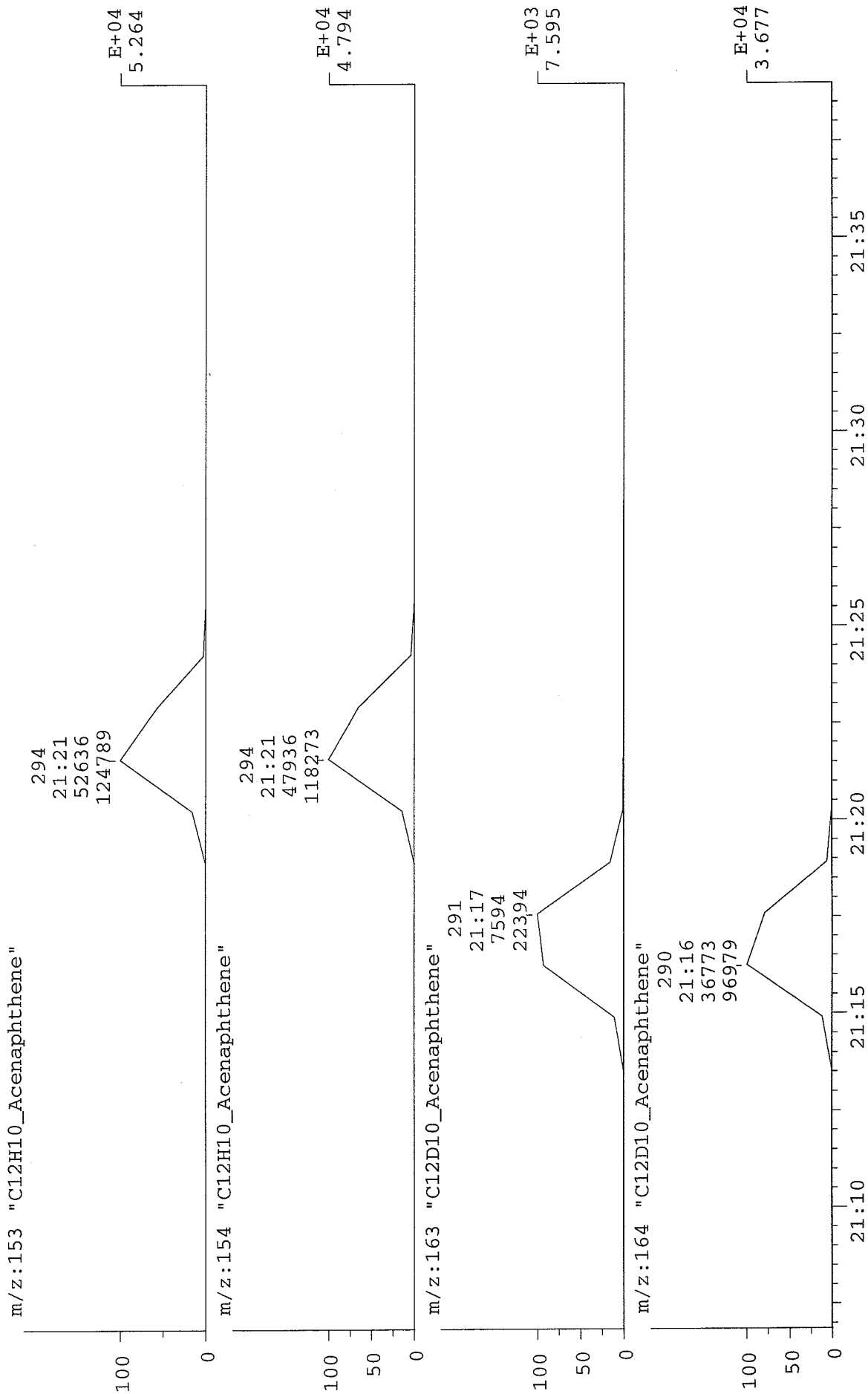
18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 283 > 307
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

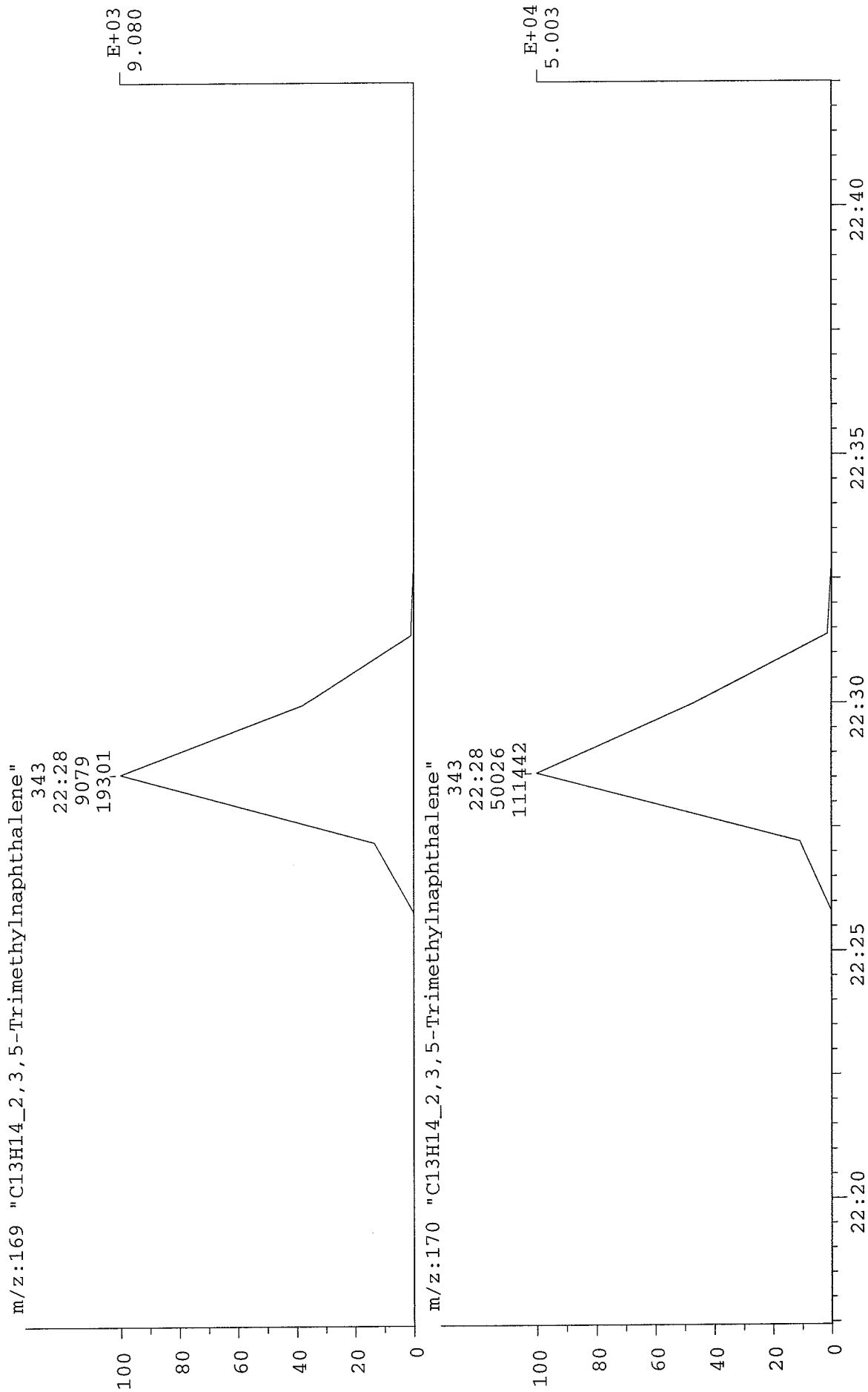
18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: y060418s2
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 335 > 353
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

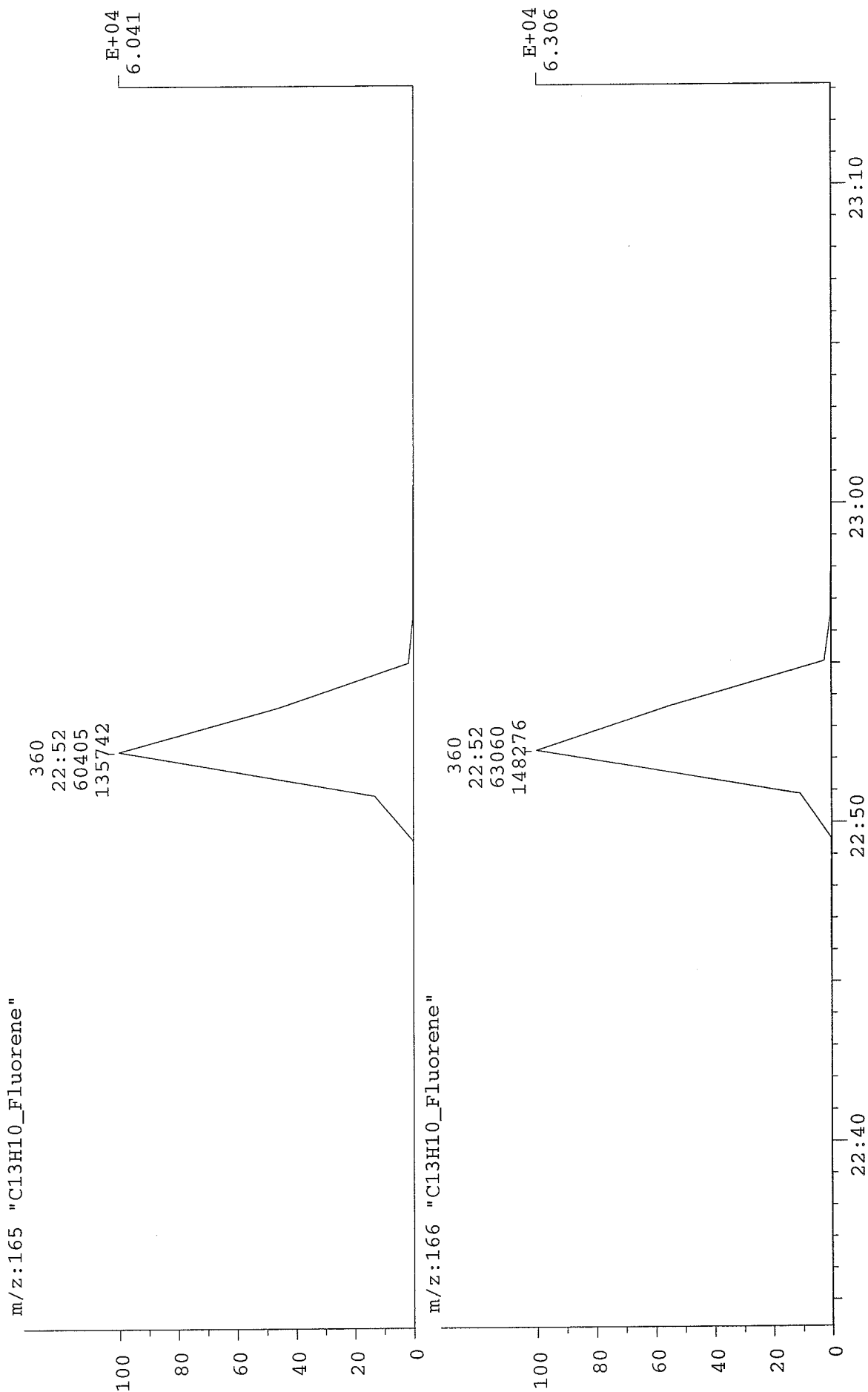
18-APR-06 Elapse: 39:44 1278
 Start : 19:24:00 1384

Study : PAH Ver
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



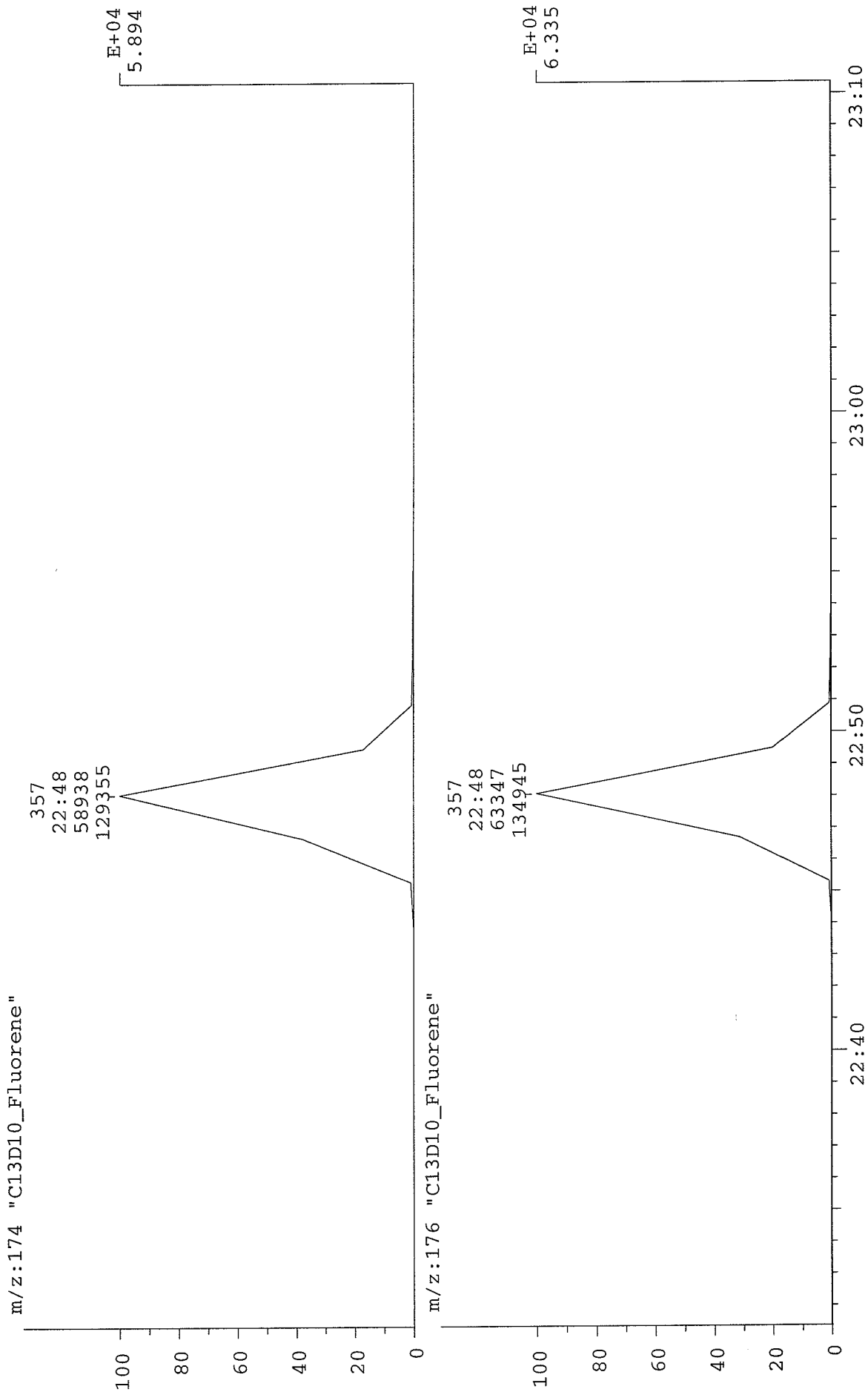
CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 345 > 373
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

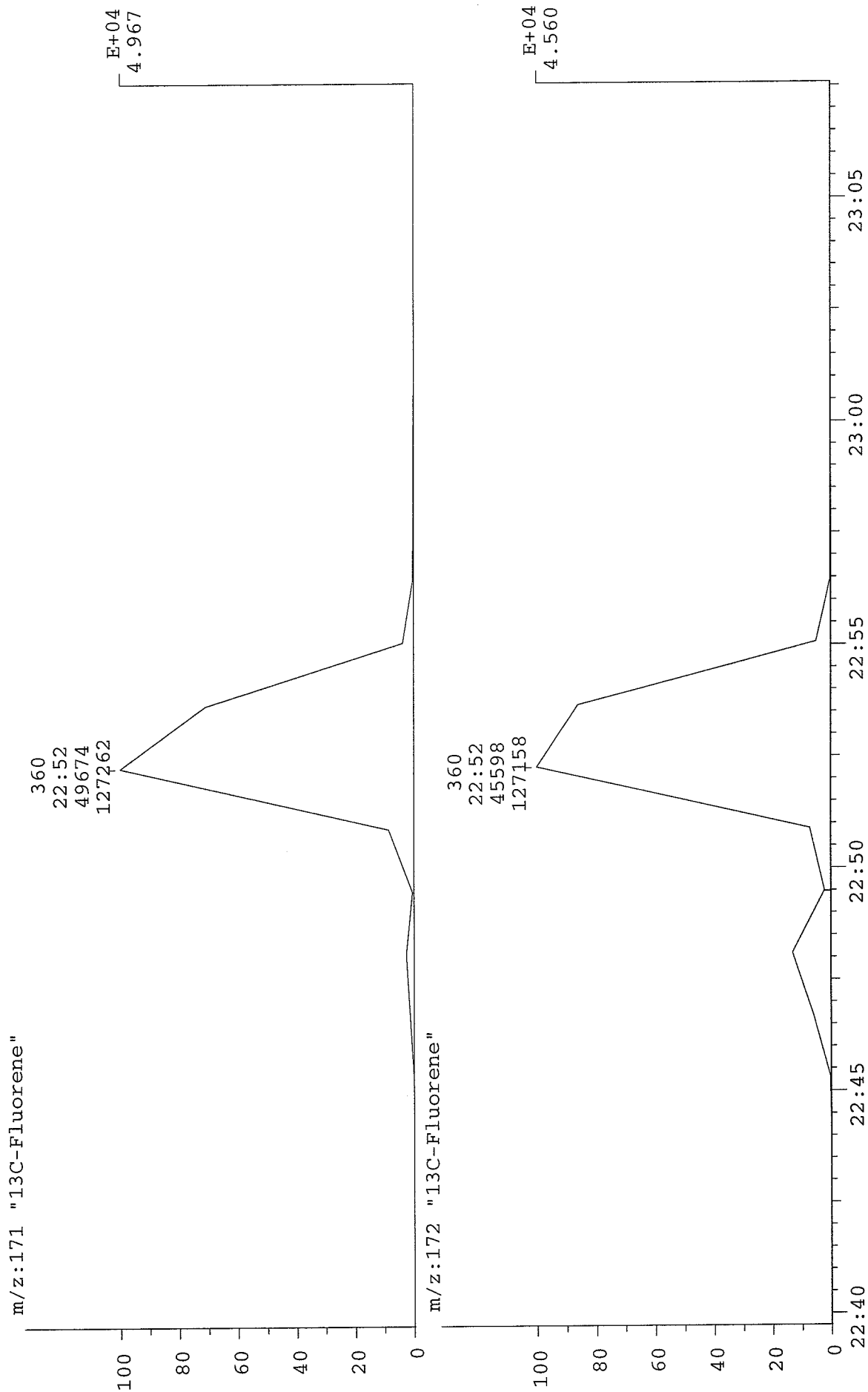
18-APR-06 Elapse: 30:30.2 733
Start : 19:24:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060418s2
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 351 > 371
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

18-APR-06 Elapse: 30:30.2 733
 Start : 19:24:00 1384

Study : PAH Ver
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



CHRO: Y060418s2
 Samp: WO-3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wdw: 477 > 500
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

18-APR-06 Elapse: 39:44 1278

Start : 19:24:00 1384

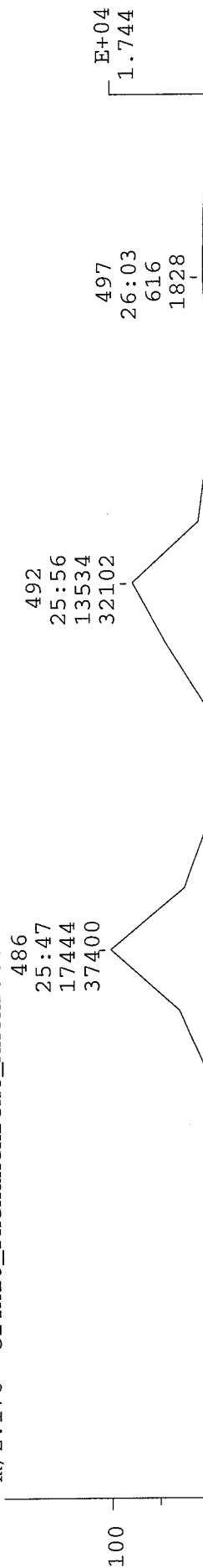
Study : PAH Ver

Inlet :

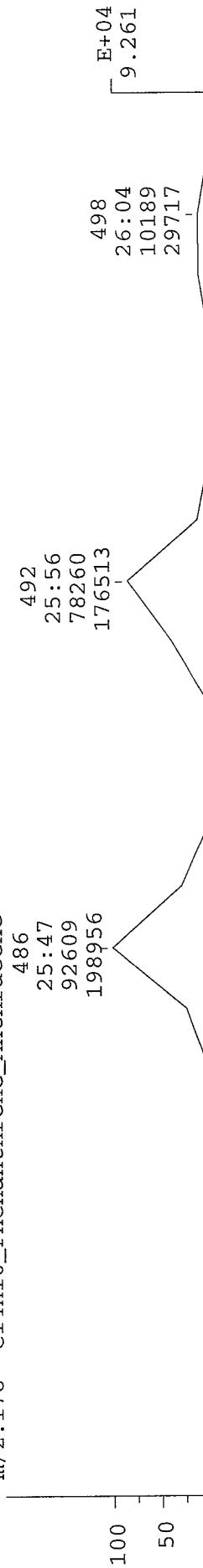
Masses: 0 > 308

Label : -2, 3.0

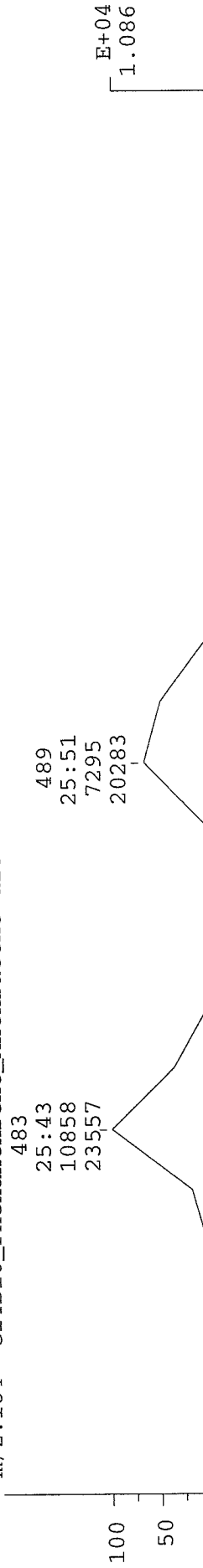
m/z:176 "C14H10_Phenanthrene_Anthracene"



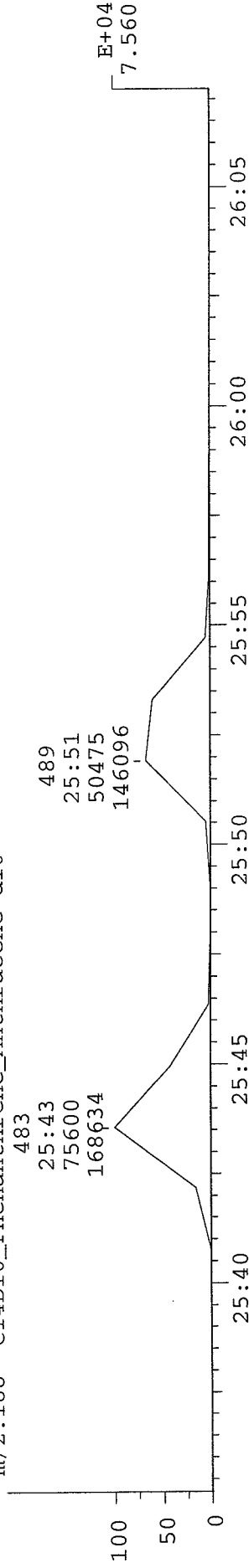
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"



m/z:188 "C14D10_Phenanthrene_Anthracene-d10"



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:191 "C15H10_1-Methylphenanthrene"

567
27:40
35437
79248

E+04
3.544

m/z:192 "C15H10_1-Methylphenanthrene"

567
27:40
60735
142939

E+04
6.074

27:50

27:45

27:40

27:35

27:30

CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 648 > 725
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

18-APR-06 Elapse: 39:44 1278

Start : 19:24:00 1384

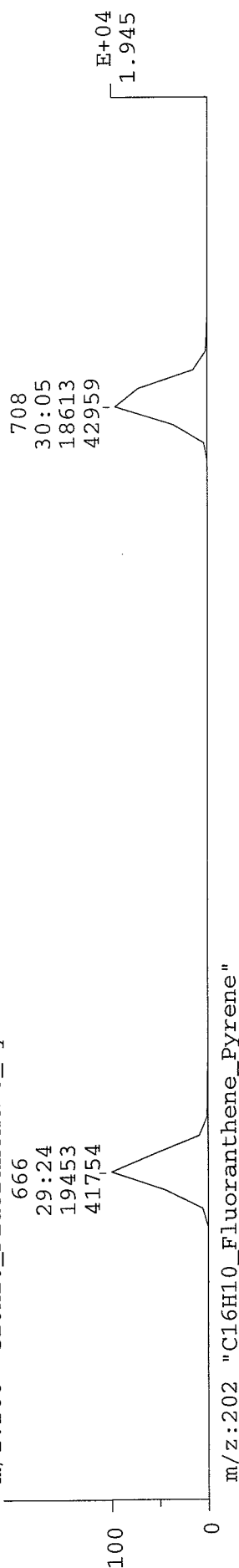
Study : PAH Ver

Inlet :

Masses: 0 > 308

Label : -2, 3.0

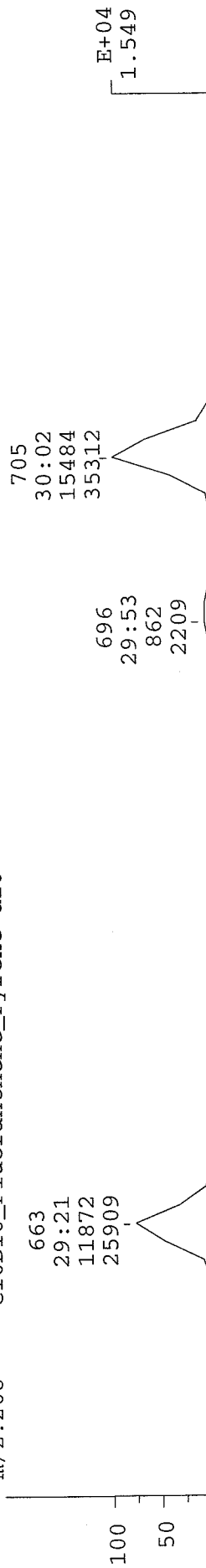
m/z:200 "C16H10_Fluoranthene_Pyrene"



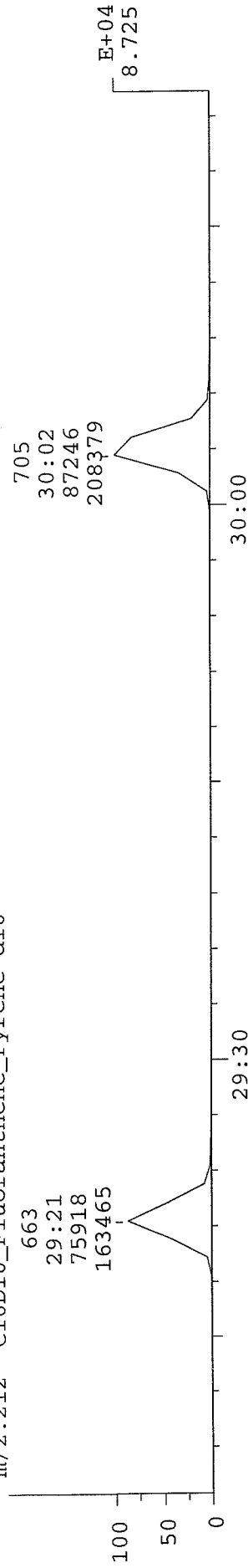
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 " " C16D10_Fluoranthene_Pyrene-d10



m/z:212 "C16D10_Fluoranthene_Pyrene-d10"

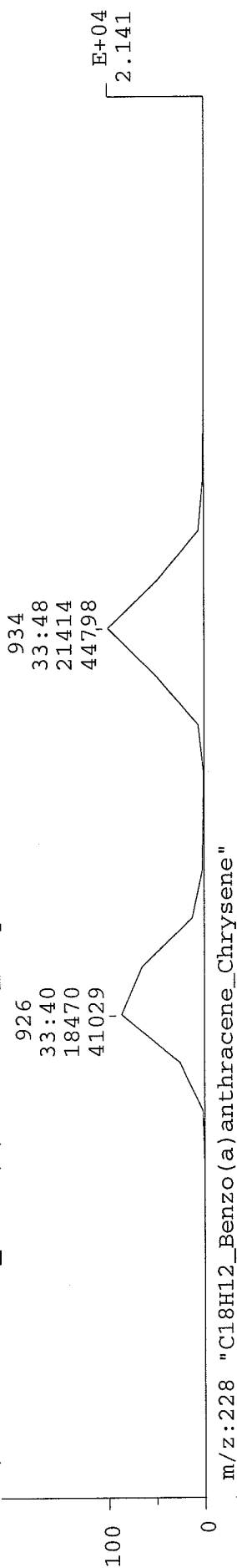


CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 916 > 945
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

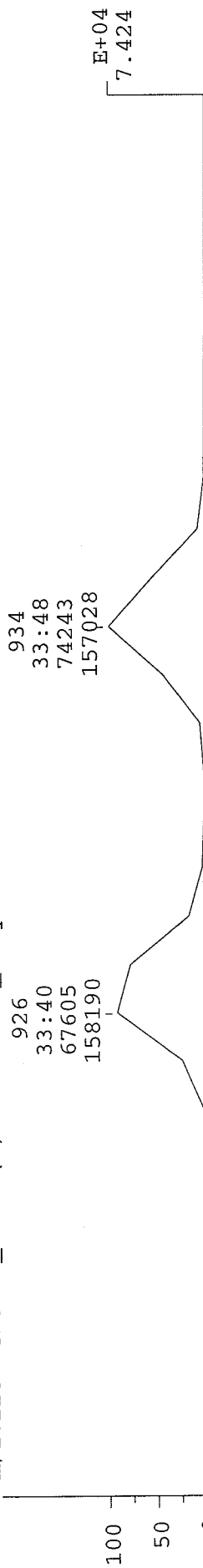
18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

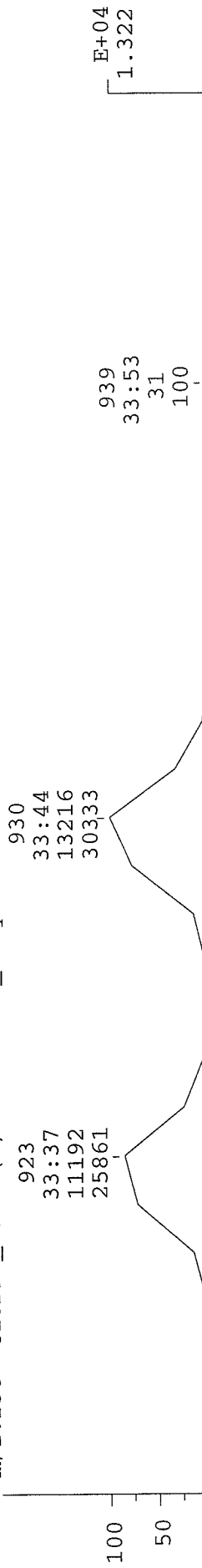
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



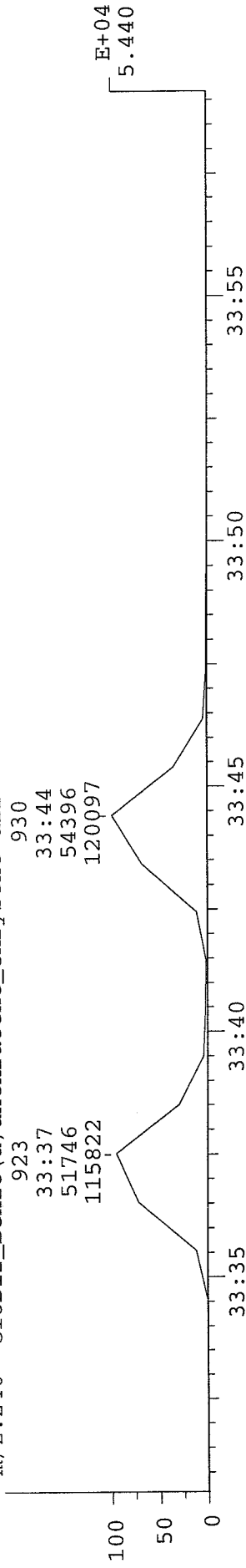
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"

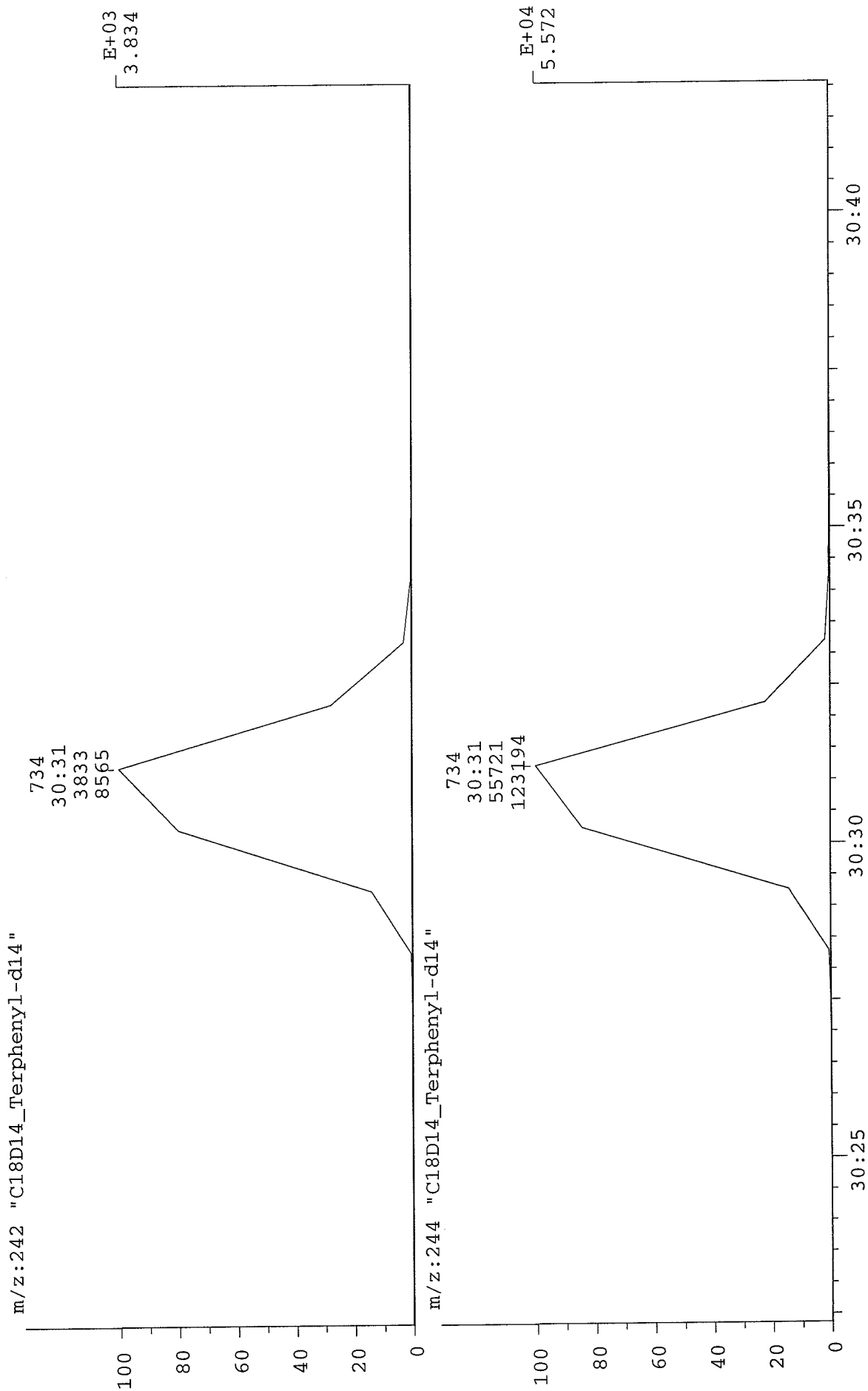


m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"



CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 725 > 745
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

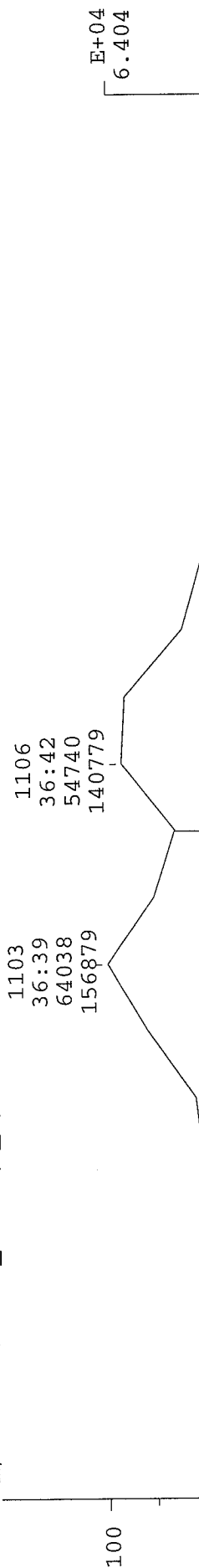
18-APR-06 Elapse: 30:30.2 733
Start : 19:24:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0



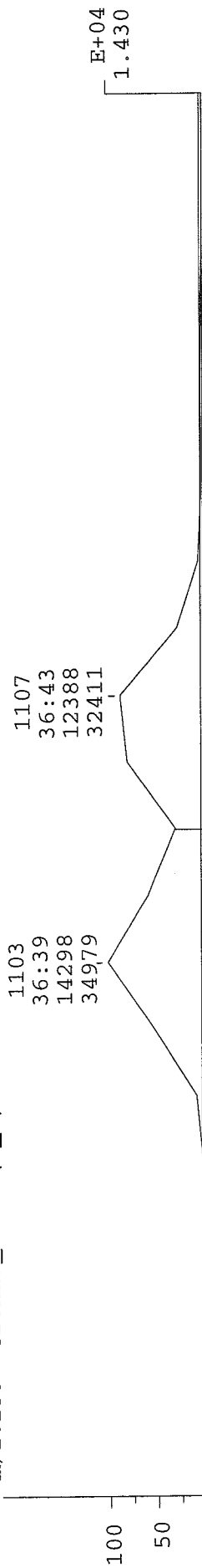
CHRO: Y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1095 > 1116
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384
Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

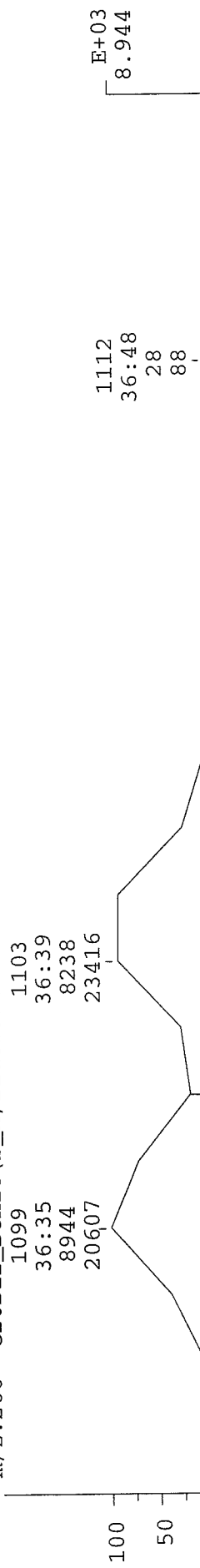
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



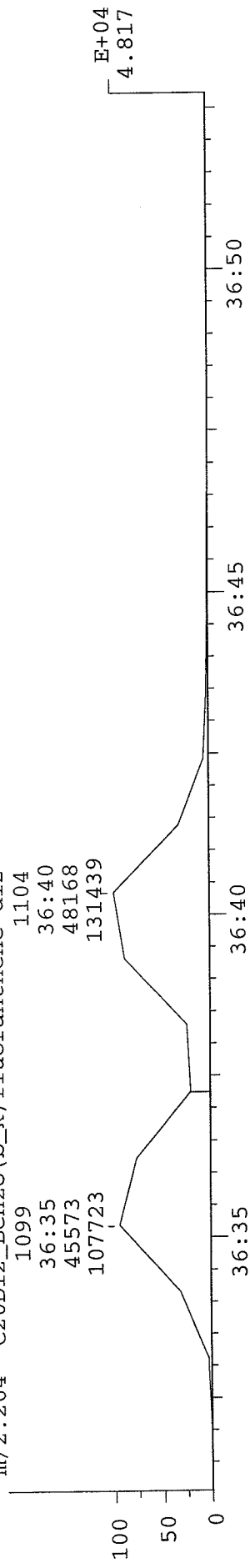
m/z:253 "C20H12_Benzo(b_k)fluoranthene"



m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



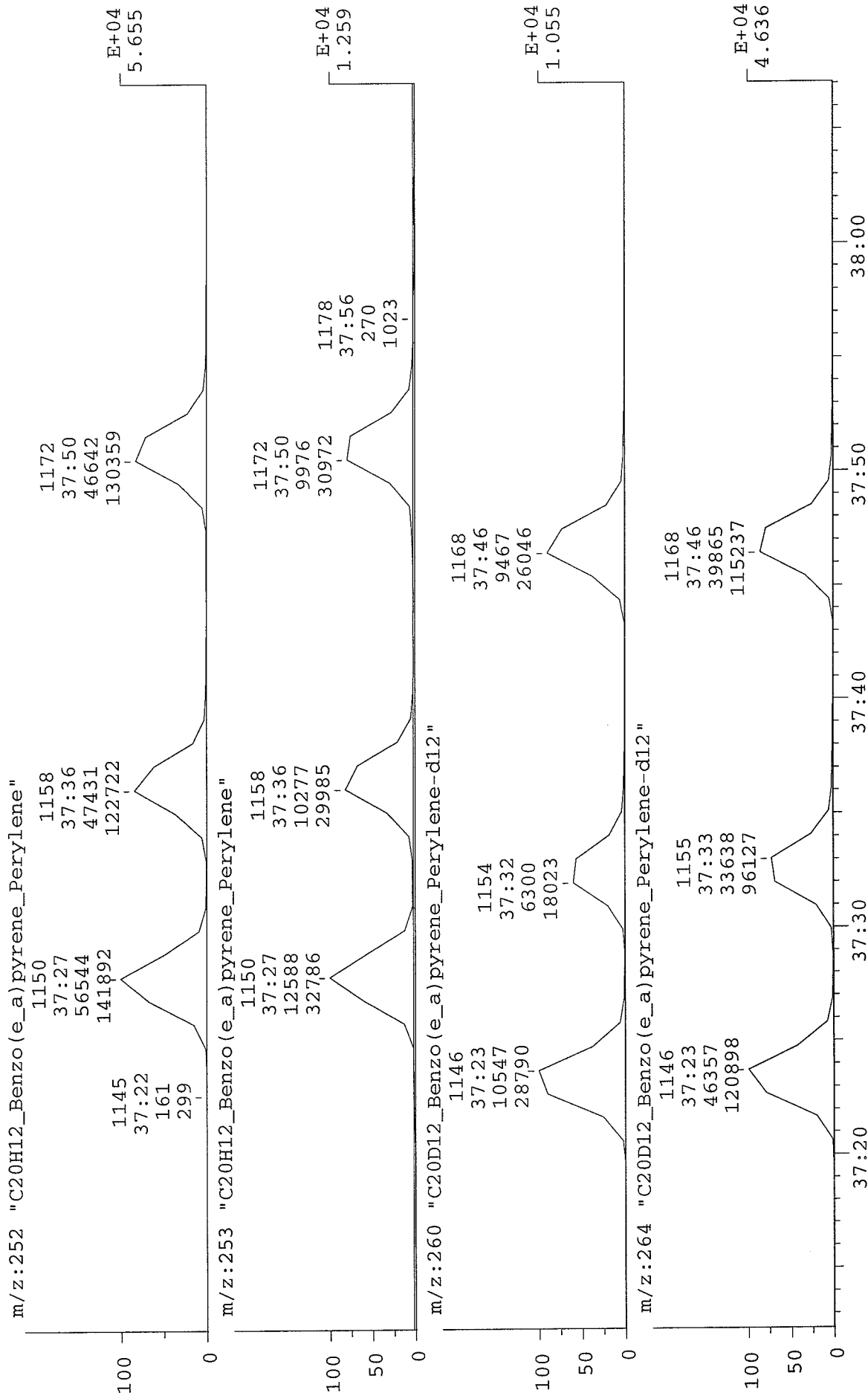
m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



CHRO: Y060418s2
 Samp: WO=3377:01_4 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1135 > 1188
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

18-APR-06 Elapse: 39:44 1278
 Start : 19:24:00 1384

Study : PAH Ver
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

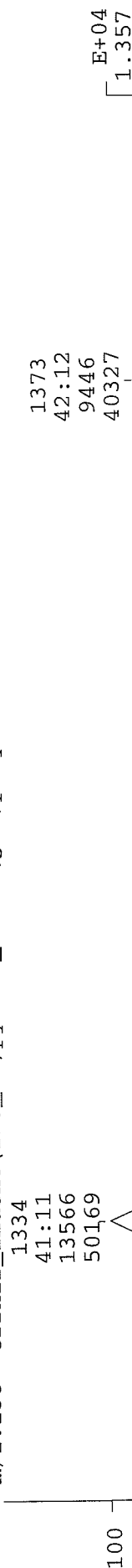


CHRO: y060418s2
Samp: WO=3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 1321 > 1387
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

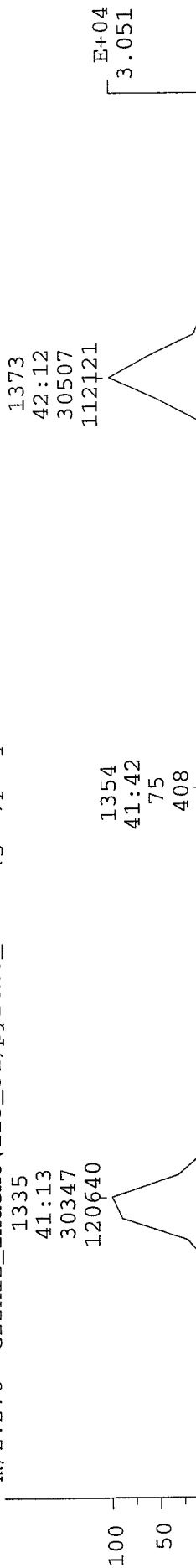
18-APR-06 Elapse: 39:44
Start : 19:24:00

1278
1384

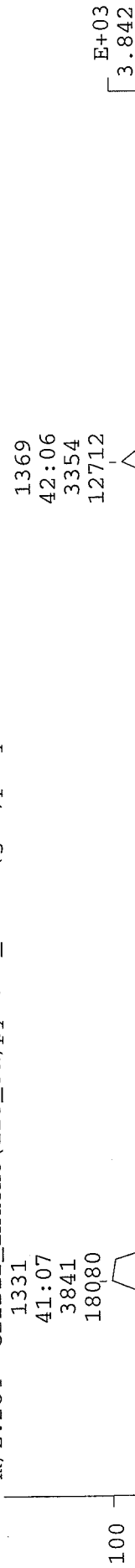
m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



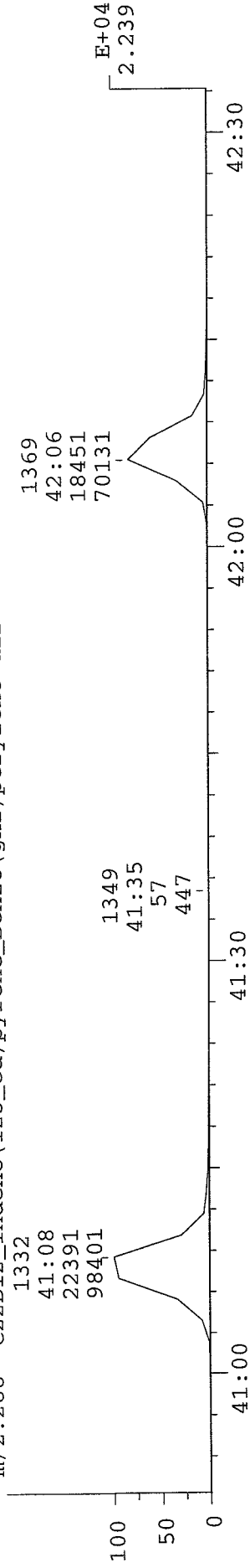
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



CHRO: y060418s2
Samp: WO-3377:01_4 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060418s2 Ccal=20060405i
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1325 > 1345
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

18-APR-06 Elapse: 39:44 1278
Start : 19:24:00 1384

Study : PAH Ver
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:139 "C22H14_Dibenz(ah)anthracene"

1334
41:11
7604
28180

E+03
7.605

m/z:278 "C22H14_Dibenz(ah)anthracene"

1334
41:11
27922
98379

E+04
2.792

m/z:288 "C22D14_Dibenz(ah)anthracene-d14"

1332
41:08
22374
97504

E+04
2.238

m/z:292 "C22D14_Dibenz(ah)anthracene-d14"

1330
41:05
14733
51054

E+04
1.473

41:25

41:20

41:15

41:10

41:05

41:00

File: Y60418S2.D
 Date Acquired: 18 Apr 2006 7:24 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060418S2
 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 Tue Apr 18 21:20:48 2006
 d:\cdf\files\Y60418S2.CDF Translated at Tue Apr 18 21:20:48 2006 Elapsed: 1 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Tue Apr 18 15:47:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60418s2.dat
 NetCDF File (input): /usr/users/hp/data/y60418s2.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 15:47:01 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 Initial Calibration Data Review / Narrative Checklist
Method: PAHs and Selected SVOCs - KNOX-ID-0016, Revision 4

4155

Analysis Date:	4/26/06	Instrument::	H2A	ICAL Batch/Scan Name:	20060426i	Scanned	☐
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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. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
5. Was low level standard at or below EMDL? EML		✓			✓
6. Are all %RSD ≤ 30%		✓			✓
7. Is the signal/noise ratio for all natives and labeled analytes ≥ 10:1 (≥ 3:1 allowed for confirmation ions for PAH ≥ C16)		✓			✓
8. Is the height of the valley between benzo(e)pyrene and benzo(a)pyrene ≤ 25% of the smaller peak? (m/z 252)		✓			✓
9. Is the height of the valley between anthracene and phenanthrene (m/z 178) ≤ 25% of the smaller peak?		✓			✓
10. Are the MID descriptor switchpoints between the RT of the last compound and the first compound of each descriptor?		✓			✓
11. Are the absolute retention times of labeled or native target analytes within ± 60 seconds of the retention times listed in Table 5?		✓			✓
12. If manual integrations were performed, are they clearly identified, initialed, and dated?		✓			✓
13. Have manual integrations been verified as correct and are correct RFs listed in ICAL summary?		✓			✓
14. Was ICAL summary form processed using the correct method?		✓			✓
15. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
16. Elution order checked on isomeric pairs?		✓			✓
• 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)		✓			✓
17. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	X	✓			✓
18. Does the ICAL folder contain complete data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target ICAL summary, MID descriptor, followed by Quan reports, chromatograms and manual integrations for all standards, in order from low to high standard.		✓			✓

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

2004/26/00 all

Read and Understood by:

Date: _____

PAH's by LRMS Extended List

ICAL ID: 17004

Instrument: H2A

Date: 04/26/06 18:49

Column S/N: 695821

Method: YA1 - DXLPAH

Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Level	Filename	Date/Time	Sample	Result Directory
CS1:	y060426i1	04/26/06 18:49	Y060426I1	/20060426i/y060426i1.d
CS2:	y060426i2	04/26/06 20:28	Y060426I2	/20060426i/y060426i2.d
CS3:	y060426i3	04/26/06 21:18	Y060426I3	/20060426i/y060426i3.d
CS4:	y060426i4	04/26/06 22:08	Y060426I4	/20060426i/y060426i4.d
CS5:	y060426i5	04/26/06 22:58	Y060426I5	/20060426i/y060426i5.d
CS6:	y060426i6	04/26/06 23:48	Y060426I6	/20060426i/y060426i6.d
CS7:	y060426i7	04/27/06 00:38	Y060426I7	/20060426i/y060426i7.d

Analyte	CS1	CS2	CS3	CS4	CS5	CS6	CS7	Mean RF	%RSD	Limit	Valid?
Naphthalene-d8	1.521	1.520	1.711	1.725	1.696	1.554	1.636	1.623	5.6	30.0	True
Naphthalene	1.364	1.221	1.242	1.184	1.164	1.261	1.193	1.233	5.4	30.0	True
2-Methylnaphthalene	1.331	1.251	1.280	1.224	1.213	1.333	1.257	1.270	3.8	30.0	True
2-Methylnaphthalene-d10	1.043	1.036	1.141	1.147	1.140	1.045	1.098	1.093	4.7	30.0	True
1-Methylnaphthalene	1.415	1.340	1.367	1.308	1.300	1.416	1.359	1.358	3.4	30.0	True
1-Methylnaphthalene-d10	0.911	0.898	1.000	1.001	1.006	0.932	0.957	0.958	4.7	30.0	True
Biphenyl	1.635	1.522	1.574	1.482	1.493	1.636	1.523	1.552	4.1	30.0	True
2,6-Dimethylnaphthalene	1.335	1.233	1.253	1.184	1.177	1.285	1.216	1.240	4.5	30.0	True
2,6-Dimethylnaphthalene-d12	0.962	0.947	1.047	1.049	1.063	0.986	1.012	1.009	4.5	30.0	True
Acenaphthylene	1.192	1.186	1.226	1.185	1.190	1.322	1.249	1.221	4.1	30.0	True
Acenaphthylene-d8	1.573	1.556	1.703	1.695	1.737	1.604	1.656	1.646	4.2	30.0	True
Acenaphthene-d10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.0	30.0	True
Acenaphthene	0.758	0.725	0.743	0.719	0.709	0.784	0.738	0.740	3.5	30.0	True
2,3,5-Trimethylnaphthalene	1.175	1.125	1.143	1.087	1.096	1.209	1.145	1.140	3.8	30.0	True
Fluorene d-10	0.761	0.804	0.826	0.788	0.764	0.847	0.842	0.805	4.4	30.0	True
Fluorene-C13	0.690	0.746	0.779	0.754	0.715	0.800	0.782	0.752	5.2	30.0	True
Fluorene	0.914	0.878	0.900	0.874	0.860	0.927	0.889	0.892	2.6	30.0	True
Phenanthrene-d10	0.769	0.763	0.809	0.827	0.833	0.760	0.788	0.793	3.9	30.0	True
Phenanthrene	1.301	1.175	1.199	1.176	1.162	1.265	1.192	1.210	4.3	30.0	True
Anthracene-d10	0.677	0.688	0.705	0.715	0.719	0.735	0.688	0.704	2.9	30.0	True
Anthracene	1.044	0.992	1.043	1.039	1.056	1.167	1.112	1.065	5.4	30.0	True
1-Methylphenanthrene	0.911	0.830	0.856	0.844	0.843	0.930	0.881	0.871	4.3	30.0	True
Fluoranthene-d10	0.733	0.725	0.787	0.784	0.805	0.740	0.756	0.761	4.0	30.0	True
Fluoranthene	1.342	1.240	1.279	1.274	1.254	1.381	1.316	1.298	3.9	30.0	True
Pyrene-d10	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.0	30.0	True
Pyrene	1.397	1.263	1.293	1.292	1.264	1.393	1.331	1.319	4.3	30.0	True
Terphenyl-d14	0.757	0.734	0.772	0.744	0.710	0.819	0.795	0.762	4.9	30.0	True
Benzo(a)Anthracene-d12	0.492	0.485	0.535	0.518	0.540	0.513	0.516	0.514	3.9	30.0	True
Benzo(a)anthracene	1.397	1.301	1.339	1.352	1.344	1.506	1.454	1.385	5.2	30.0	True
Chrysene-d12	0.484	0.479	0.540	0.526	0.544	0.514	0.525	0.516	5.0	30.0	True
Chrysene	1.360	1.283	1.322	1.297	1.285	1.433	1.353	1.333	4.0	30.0	True
Benzo(b)Fluoranthene-d12	0.843	0.832	0.912	0.905	0.933	0.918	0.919	0.895	4.5	30.0	True
Benzo(k)Fluoranthene-d12	0.974	0.971	1.059	1.060	1.105	0.998	1.045	1.030	4.9	30.0	True
Benzo(b)fluoranthene	1.621	1.446	1.461	1.443	1.413	1.411	1.323	1.446	6.2	30.0	True
Benzo(k)fluoranthene	1.085	1.002	1.033	1.027	1.016	1.270	1.221	1.093	9.9	30.0	True
Benzo(e)pyrene-d12	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.0	30.0	True
Benzo(e)pyrene	1.565	1.458	1.493	1.479	1.428	1.546	1.499	1.495	3.2	30.0	True
Benzo(a)Pyrene-d12	0.734	0.727	0.793	0.784	0.819	0.780	0.795	0.776	4.3	30.0	True
Benzo(a)pyrene	1.279	1.202	1.242	1.235	1.245	1.418	1.380	1.286	6.3	30.0	True
Perylene-d12	0.892	0.882	0.963	0.952	0.985	0.930	0.951	0.936	4.0	30.0	True
Perylene	1.105	1.069	1.117	1.104	1.108	1.256	1.221	1.140	6.1	30.0	True
Dibenz(ah)Anthracene-d14	0.386	0.384	0.422	0.394	0.414	0.404	0.408	0.402	3.5	30.0	True
Indeno(1,2,3-cd)pyrene-d12	0.739	0.742	0.811	0.766	0.797	0.768	0.782	0.772	3.4	30.0	True
Indeno(1,2,3-cd)pyrene	1.280	1.197	1.223	1.205	1.204	1.370	1.337	1.259	5.6	30.0	True
Dibenz(a,h)anthracene	1.951	1.860	1.906	1.875	1.884	2.155	2.093	1.961	6.0	30.0	True
Benzo(ghi)Perylene-d12	0.543	0.543	0.593	0.559	0.576	0.550	0.562	0.561	3.3	30.0	True
Benzo(ghi)perylene	1.714	1.572	1.591	1.581	1.560	1.747	1.709	1.639	4.9	30.0	True

Signature
4/27/06

PAH's by LRMS Extended List

ICAL ID: 16994

Instrument: H2A

Date: 04/26/06 18:49

Column S/N: 695821

Method: YA1 - DXLPAH

Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Level	Filename	Date/Time	Sample	Result Directory
CS1:	y060426i1	04/26/06 18:49	Y060426I1	/20060426i/y060426i1.d
CS2:	y060426i2	04/26/06 20:28	Y060426I2	/20060426i/y060426i2.d
CS3:	y060426i3	04/26/06 21:18	Y060426I3	/20060426i/y060426i3.d
CS4:	y060426i4	04/26/06 22:08	Y060426I4	/20060426i/y060426i4.d
CS5:	y060426i5	04/26/06 22:58	Y060426I5	/20060426i/y060426i5.d
CS6:	y060426i6	04/26/06 23:48	Y060426I6	/20060426i/y060426i6.d
CS7:	y060426i7	04/27/06 00:38	Y060426I7	/20060426i/y060426i7.d

Analyte	Retention Time							Mean RT
	CS1	CS2	CS3	CS4	CS5	CS6	CS7	
Naphthalene-d8	15:57	15:57	15:57	15:57	15:57	15:58	15:58	15:57
Naphthalene	16:00	16:00	16:00	16:00	16:00	16:01	16:01	16:00
2-Methylnaphthalene	18:03	18:03	18:03	18:03	18:03	18:03	18:03	18:03
2-Methylnaphthalene-d10	17:58	17:58	17:58	17:58	17:58	17:58	17:58	17:58
1-Methylnaphthalene	18:23	18:22	18:22	18:22	18:22	18:22	18:23	18:22
1-Methylnaphthalene-d10	18:17	18:17	18:17	18:17	18:17	18:17	18:17	18:17
Biphenyl	19:27	19:26	19:27	19:26	19:26	19:26	19:27	19:26
2,6-Dimethylnaphthalene	19:54	19:54	19:54	19:54	19:54	19:54	19:54	19:54
2,6-Dimethylnaphthalene-d12	19:47	19:47	19:47	19:47	19:47	19:47	19:47	19:47
Acenaphthylene	20:48	20:48	20:48	20:48	20:48	20:48	20:48	20:48
Acenaphthylene-d8	20:46	20:46	20:46	20:46	20:46	20:45	20:46	20:46
Acenaphthene-d10	21:16	21:16	21:16	21:16	21:16	21:16	21:16	21:16
Acenaphthene	21:21	21:21	21:21	21:21	21:21	21:21	21:21	21:21
2,3,5-Trimethylnaphthalene	22:28	22:28	22:28	22:28	22:28	22:28	22:28	22:28
Fluorene d-10	22:48	22:46	22:46	22:46	22:46	22:46	22:48	22:47
Fluorene-C13	22:52	22:52	22:52	22:52	22:52	22:52	22:52	22:52
Fluorene	22:52	22:52	22:52	22:52	22:52	22:52	22:52	22:52
Phenanthrene-d10	25:43	25:43	25:43	25:43	25:43	25:43	25:43	25:43
Phenanthrene	25:47	25:47	25:47	25:47	25:47	25:47	25:47	25:47
Anthracene-d10	25:52	25:52	25:52	25:52	25:52	25:52	25:52	25:52
Anthracene	25:54	25:54	25:54	25:54	25:54	25:54	25:54	25:54
1-Methylphenanthrene	27:40	27:40	27:40	27:40	27:40	27:40	27:40	27:40
Fluoranthene-d10	29:20	29:20	29:20	29:20	29:20	29:20	29:20	29:20
Fluoranthene	29:23	29:23	29:23	29:23	29:23	29:23	29:24	29:23
Pyrene-d10	30:02	30:01	30:01	30:01	30:01	30:01	30:01	30:01
Pyrene	30:05	30:04	30:04	30:04	30:05	30:05	30:05	30:05
Terphenyl-d14	30:30	30:30	30:30	30:30	30:30	30:30	30:30	30:30
Benzo(a) Anthracene-d12	33:36	33:36	33:36	33:36	33:36	33:36	33:36	33:36
Benzo(a) anthracene	33:40	33:39	33:39	33:39	33:39	33:40	33:40	33:39
Chrysene-d12	33:43	33:43	33:43	33:43	33:43	33:43	33:43	33:43
Chrysene	33:47	33:47	33:47	33:47	33:47	33:47	33:48	33:47
Benzo(b) Fluoranthene-d12	36:34	36:34	36:34	36:34	36:34	36:34	36:34	36:34
Benzo(k) Fluoranthene-d12	36:38	36:38	36:38	36:38	36:38	36:39	36:39	36:38
Benzo(b) fluoranthene	36:38	36:38	36:38	36:38	36:38	36:38	36:38	36:38
Benzo(k) fluoranthene	36:41	36:41	36:41	36:41	36:41	36:42	36:42	36:41
Benzo(e) pyrene-d12	37:22	37:22	37:22	37:22	37:21	37:22	37:22	37:22
Benzo(e) pyrene	37:26	37:26	37:26	37:26	37:26	37:26	37:26	37:26
Benzo(a) Pyrene-d12	37:31	37:31	37:31	37:31	37:31	37:32	37:32	37:31
Benzo(a) pyrene	37:35	37:35	37:35	37:35	37:35	37:35	37:36	37:35
Perylene-d12	37:45	37:45	37:45	37:45	37:45	37:45	37:45	37:45
Perylene	37:49	37:49	37:49	37:49	37:49	37:50	37:50	37:49
Dibenz(ah) Anthracene-d14	41:03	41:03	41:03	41:03	41:03	41:03	41:03	41:03
Indeno(1,2,3-cd) pyrene-d12	41:05	41:05	41:05	41:05	41:05	41:05	41:05	41:05
Indeno(1,2,3-cd) pyrene	41:10	41:10	41:10	41:10	41:10	41:11	41:11	41:10
Dibenz(a,h) anthracene	41:10	41:10	41:10	41:10	41:10	41:10	41:11	41:10
Benzo(ghi) Perylene-d12	42:04	42:04	42:04	42:04	42:04	42:04	42:04	42:04
Benzo(ghi) perylene	42:11	42:11	42:11	42:11	42:11	42:11	42:12	42:11

PAH's by LRMS Extended List

ICAL ID: 16994

Instrument: H2A

Date: 04/26/06 18:49

Column S/N: 695821

Method: YA1 - DXLPAH

Column Desc: Rtx-5ms 60m x 0.25mm ID x 0.25um

Level	Filename	Date/Time	Sample	Result Directory
CS1:	y060426i1	04/26/06 18:49	Y060426I1	/20060426i/y060426i1.d
CS2:	y060426i2	04/26/06 20:28	Y060426I2	/20060426i/y060426i2.d
CS3:	y060426i3	04/26/06 21:18	Y060426I3	/20060426i/y060426i3.d
CS4:	y060426i4	04/26/06 22:08	Y060426I4	/20060426i/y060426i4.d
CS5:	y060426i5	04/26/06 22:58	Y060426I5	/20060426i/y060426i5.d
CS6:	y060426i6	04/26/06 23:48	Y060426I6	/20060426i/y060426i6.d
CS7:	y060426i7	04/27/06 00:38	Y060426I7	/20060426i/y060426i7.d

Analyte	Relative Retention Time							Mean RRT
	CS1	CS2	CS3	CS4	CS5	CS6	CS7	
Naphthalene-d8	0.7500	0.7500	0.7500	0.7500	0.7500	0.7508	0.7508	0.7502
Naphthalene	1.0031	1.0031	1.0031	1.0031	1.0031	1.0031	1.0031	1.0031
2-Methylnaphthalene	1.0046	1.0046	1.0046	1.0046	1.0046	1.0046	1.0046	1.0046
2-Methylnaphthalene-d10	0.8448	0.8448	0.8448	0.8448	0.8448	0.8448	0.8448	0.8448
1-Methylnaphthalene	1.0055	1.0046	1.0046	1.0046	1.0046	1.0046	1.0055	1.0048
1-Methylnaphthalene-d10	0.8597	0.8597	0.8597	0.8597	0.8597	0.8597	0.8597	0.8597
Biphenyl	1.0826	1.0816	1.0826	1.0816	1.0816	1.0816	1.0826	1.0820
2,6-Dimethylnaphthalene	1.0059	1.0059	1.0059	1.0059	1.0059	1.0059	1.0059	1.0059
2,6-Dimethylnaphthalene-d12	0.9303	0.9303	0.9303	0.9303	0.9303	0.9303	0.9303	0.9303
Acenaphthylene	1.0016	1.0016	1.0016	1.0016	1.0016	1.0024	1.0016	1.0017
Acenaphthylene-d8	0.9765	0.9765	0.9765	0.9765	0.9765	0.9757	0.9765	0.9764
Acenaphthene-d10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Acenaphthene	1.0281	1.0281	1.0281	1.0281	1.0281	1.0289	1.0281	1.0282
2,3,5-Trimethylnaphthalene	1.1356	1.1356	1.1356	1.1356	1.1356	1.1356	1.1356	1.1356
Fluorene d-10	0.8866	0.8853	0.8853	0.8853	0.8853	0.8853	0.8866	0.8857
Fluorene-C13	0.8892	0.8892	0.8892	0.8892	0.8892	0.8892	0.8892	0.8892
Fluorene	0.8892	0.8892	0.8892	0.8892	0.8892	0.8892	0.8892	0.8892
Phenanthrene-d10	0.8563	0.8567	0.8567	0.8567	0.8567	0.8567	0.8567	0.8567
Phenanthrene	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026	1.0026
Anthracene-d10	0.8613	0.8617	0.8617	0.8617	0.8617	0.8617	0.8617	0.8617
Anthracene	1.0071	1.0071	1.0071	1.0071	1.0071	1.0071	1.0071	1.0071
1-Methylphenanthrene	1.0758	1.0758	1.0758	1.0758	1.0758	1.0758	1.0758	1.0758
Fluoranthene-d10	0.9767	0.9772	0.9772	0.9772	0.9772	0.9772	0.9772	0.9772
Fluoranthene	1.0017	1.0017	1.0017	1.0017	1.0017	1.0017	1.0023	1.0018
Pyrene-d10	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Pyrene	1.0256	1.0250	1.0250	1.0250	1.0256	1.0256	1.0256	1.0253
Terphenyl-d14	1.0398	1.0398	1.0398	1.0398	1.0398	1.0398	1.0398	1.0398
Benzo(a) Anthracene-d12	1.1188	1.1194	1.1194	1.1194	1.1194	1.1194	1.1194	1.1193
Benzo(a) anthracene	1.0020	1.0015	1.0015	1.0015	1.0015	1.0020	1.0020	1.0017
Chrysene-d12	1.1226	1.1233	1.1233	1.1233	1.1233	1.1233	1.1233	1.1232
Chrysene	1.0020	1.0020	1.0020	1.0020	1.0020	1.0020	1.0025	1.0020
Benzo(b) Fluoranthene-d12	0.9786	0.9786	0.9786	0.9786	0.9790	0.9786	0.9786	0.9787
Benzo(k) Fluoranthene-d12	0.9804	0.9804	0.9804	0.9804	0.9808	0.9808	0.9808	0.9806
Benzo(b) fluoranthene	1.0018	1.0018	1.0018	1.0018	1.0018	1.0018	1.0018	1.0018
Benzo(k) fluoranthene	1.0014	1.0014	1.0014	1.0014	1.0014	1.0014	1.0014	1.0014
Benzo(e) pyrene-d12	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Benzo(e) pyrene	0.9978	0.9978	0.9978	0.9978	0.9978	0.9973	0.9973	0.9977
Benzo(a) Pyrene-d12	1.0040	1.0040	1.0040	1.0040	1.0045	1.0045	1.0045	1.0042
Benzo(a) pyrene	1.0018	1.0018	1.0018	1.0018	1.0018	1.0013	1.0018	1.0017
Perylene-d12	1.0103	1.0103	1.0103	1.0103	1.0107	1.0103	1.0103	1.0103
Perylene	1.0018	1.0018	1.0018	1.0018	1.0018	1.0022	1.0022	1.0019
Dibenz(ah) Anthracene-d14	1.0986	1.0986	1.0986	1.0986	1.0991	1.0986	1.0986	1.0986
Indeno(1,2,3-cd) pyrene-d12	1.0995	1.0995	1.0995	1.0995	1.1000	1.0995	1.0995	1.0995
Indeno(1,2,3-cd) pyrene	1.0020	1.0020	1.0020	1.0020	1.0020	1.0024	1.0024	1.0021
Dibenz(a,h) anthracene	1.0028	1.0028	1.0028	1.0028	1.0028	1.0028	1.0032	1.0029
Benzo(ghi) Perylene-d12	1.1258	1.1258	1.1258	1.1258	1.1263	1.1258	1.1258	1.1259
Benzo(ghi) perylene	1.0028	1.0028	1.0028	1.0028	1.0028	1.0028	1.0032	1.0028

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PAH's by LRMS Extended List



Workorder Y060426I1	Prep Batch	Lot No
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Analysis ID 90295	Prep Exp Date	Date Received
Analysis Date 4/26/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 18:49	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAI
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:57	84814	26826	1.000	✓ 500.0	760.636390	152.13	760.636390	0.442
Naphthalene	16:00	4626	1402	1.000	✓ 20.00	27.271441	136.36	27.271441	0.513
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	20.00			ND	0.000000
2-Methylnaphthalene	18:03	3096	1190	1.000	20.00	26.612570	133.06	26.612570	0.276
2-Methylnaphthalene-d10	17:58	58168	22639	1.000	500.0	521.667384	104.33	521.667384	0.540
1-Methylnaphthalene	18:23	2875	1004	1.000	20.00	28.305045	141.53	28.305045	0.302
1-Methylnaphthalene-d10	18:17	50786	20684	1.000	500.0	455.463481	91.09	455.463481	0.540
1-Chloronaphthalene				1.000	20.00			ND	0.000000
2-Chloronaphthalene				1.000	20.00			ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:27	3804	1412	1.000	20.00	32.698391	163.49	32.698391	0.828
2,6-Dimethylnaphthalene	19:54	2862	1114	1.000	20.00	26.694275	133.47	26.694275	1.16
2,6-Dimethylnaphthalene-d1	19:47	53607	24793	1.000	500.0	480.763022	96.15	480.763022	0.246
C2-Alkyl-naphthalenes				1.000		26.694275		26.694275	1.07
Acenaphthylene	20:48	4183	1840	1.000	20.00	23.843997	119.22	23.843997	0.399
Acenaphthylene-d8	20:46	87716	34493	1.000	500.0	786.662362	157.33	786.662362	0.147
Acenaphthene-d10	21:16	55752	25455	1.000	500.0	500.000000	100.00	500.000000	0.295
Acenaphthene	21:21	2660	1208	1.000	20.00	15.162570	75.81	15.162570	0.544
2,3,5-Trimethylnaphthalene	22:28	2520	1188	1.000	20.00	23.504393	117.52	23.504393	0.202
C3-Alkyl-naphthalenes				1.000		23.504393		23.504393	0.186
Fluorene d-10	22:48	2757	977	1.000	✓ 20.00	15.226997	76.13	15.226997	0.161
Fluorene-C13	22:52	2498	1189	1.000	✓ 20.00	13.796532	68.98	13.796532	0.0965
Fluorene	22:52	3310	1535	1.000	20.00	18.281233	91.41	18.281233	0.129
Phenanthrene-d10	25:43	90530	38868	1.000	500.0	384.478175	76.90	384.478175	0.0781
Phenanthrene	25:47	4712	1670	1.000	20.00	26.024522	130.12	26.024522	0.225
Anthracene-d10	25:52	79743	37040	1.000	500.0	338.666112	67.73	338.666112	0.0781
Anthracene	25:54	3779	1499	1.000	20.00	20.871534	104.36	20.871534	0.225
1-Methylphenanthrene	27:40	3298	1439	1.000	20.00	18.214956	91.07	18.214956	0.193
Fluoranthene-d10	29:20	86294	38028	1.000	500.0	366.488011	73.30	366.488011	0.234
Fluoranthene	29:23	4633	1855	1.000	20.00	26.844277	134.22	26.844277	0.131
Pyrene-d10	30:02	117731	48005	1.000	500.0	500.000000	100.00	500.000000	0.234
Pyrene	30:05	4822	1792	1.000	20.00	27.939370	139.70	27.939370	0.131
Terphenyl-d14	30:30	2613	1316	1.000	✓ 20.00	15.140102	75.70	15.140102	0.0657
Benzo(a)Anthracene-d12	33:36	57915	26657	1.000	500.0	245.963255	49.19	245.963255	0.156
Benzo(a)anthracene	33:40	3236	1238	1.000	20.00	27.937495	139.69	27.937495	0.188
Chrysene-d12	33:43	56950	27312	1.000	500.0	241.864929	48.37	241.864929	0.156
Chrysene	33:47	3098	1449	1.000	20.00	27.199298	136.00	27.199298	0.183
Benzo(b)Fluoranthene-d12	36:34	49326	21054	1.000	500.0	421.366455	84.27	421.366455	0.453
Benzo(k)Fluoranthene-d12	36:38	57010	21213	1.000	500.0	487.006885	97.40	487.006885	0.453
Benzo(b)fluoranthene	36:38	3198	1298	1.000	20.00	32.416981	162.08	32.416981	1.13
Benzo(k)fluoranthene	36:41	2474	1037	1.000	20.00	21.697948	108.49	21.697948	1.12
Benzo(e)pyrene-d12	37:22	58531	22066	1.000	500.0	500.000000	100.00	500.000000	0.453
Benzo(e)pyrene	37:26	2688	999	1.000	20.00	31.290743	156.45	31.290743	1.50
Benzo(a)Pyrene-d12	37:31	42952	15835	1.000	500.0	366.916677	73.38	366.916677	0.453
Benzo(a)pyrene	37:35	2197	834	1.000	20.00	25.575061	127.88	25.575061	1.50
Perylene-d12	37:45	52193	19771	1.000	500.0	445.857751	89.17	445.857751	0.453
Perylene	37:49	2306	857	1.000	20.00	22.091085	110.46	22.091085	1.20
3-Methylcholanthrene				1.000	20.00			ND	1.33

*9.46606
all*

mmx 4/27/06

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IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



IsoCalc

Workorder Y060426I1	Prep Batch	Lot No
Data File /20060426i/y060426i1.d	Prep Date	SDG No
Analysis ID 90295	Prep Exp Date	Date Received
Analysis Date 4/26/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 18:49	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAl
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Dibenz(ah)Anthracene-d14	41:03	22605	6796	1.000	500.0	193.102800	38.62	193.102800	0.340
Indeno(1,2,3-cd)pyrene-d12	41:05	43258	10449	1.000	500.0	369.530676	73.91	369.530676	0.453
Indeno(1,2,3-cd)pyrene	41:10	2214	566	1.000	20.00	25.590642	127.95	25.590642	0.479
Dibenz(a,h)anthracene	41:10	1764	530	1.000	20.00	39.017916	195.09	39.017916	1.10
Benzo(ghi)Perylene-d12	42:04	31808	8741	1.000	500.0	271.719260	54.34	271.719260	0.453
Benzo(ghi)perylene	42:11	2181	549	1.000	20.00	34.283828	171.42	34.283828	0.572
13C6-Dibenzo(a,e)pyrene					500.0			ND	0.000000
Dibenzo(a,e)pyrene				1.000	20.00			ND	0.000000

9 updates v2



PAH's by LRMS Extended List

Workorder Y060426I1	Prep Batch	Lot No
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Analysis Date 04/26/06 18:49 /	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	28		11				
	Naphthalene	16:00	00:00	0	4626 ✓		1402			ABB	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	23		9				
	Naphthalene-d8	15:57	00:00	0	84814 ✓		26826			ABB	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	13		5				
	2-Methylnaphthalene	18:03	00:00	0	3096 ✓		1190			MBB	
	1-Methylnaphthalene	18:23	00:00	0	2875 ✓		1004			AVB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	28		11				
	2-Methylnaphthalene-d10	17:58	00:00	0	58168 ✓		22639			ABB	
	1-Methylnaphthalene-d10	18:17	00:00	0	50786 ✓		20684			ABB	
	Acenaphthylene	20:48	00:00	0	4183 ✓		1840			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	38		15				
	Biphenyl	19:27	00:00	0	3804 ✓		1412			ABB	
	Acenaphthene	21:21	00:00	0	2660 ✓		1208			MVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	58		23				
	2,6-Dimethylnaphthalene	19:54	00:00	0	2862 ✓		1114			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	8		3				
	Acenaphthylene-d8	20:46	00:00	0	87716 ✓		34493			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	55752 ✓		25455			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	10		4				
	Fluorene	22:52	00:00	0	3310 ✓		1535			MBB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	13		5				
	2,6-Dimethylnaphthalene	19:47	00:00	0	53607 ✓		24793			ABB	
169					169.0000		169.0000				
	Noise	00:00	00:00	0	13		5				
170					170.0000		170.0000				
	Noise	00:00	00:00	0	10		4				
	2,3,5-Trimethylnaphthal	22:28	00:00	0	2520 ✓		1188			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

PAH's by LRMS Extended List

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Data File /20060426i/y060426i1.d	Prep Date	SDG No
Analysis ID 90295	Prep Exp Date	Date Received
Analysis Date 04/26/06 18:49	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution 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	2498 ✓		1189			AVB	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	13		5				
	Fluorene d-10	22:48	00:00	0	2757 ✓		977			ABB	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	18		7				
	Phenanthrene	25:47	00:00	0	4712 ✓		1670			ABV	M
	Anthracene	25:54	00:00	0	3779 ✓		1499			AVB	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	8		3				
	Phenanthrene-d10	25:43	00:00	0	90530 ✓		38868			ABV	M
	Anthracene-d10	25:52	00:00	0	79743 ✓		37040			AVB	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	15		6				
	1-Methylphenanthrene	27:40	00:00	0	3298 ✓		1439			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	10		4				
	Fluoranthene	29:23	00:00	0	4633 ✓		1855			ABV	M
	Pyrene	30:05	00:00	0	4822 ✓		1792			ABB	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	23		9				
	Fluoranthene-d10	29:20	00:00	0	86294 ✓		38028			ABV	
	Pyrene-d10	30:02	00:00	0	117731 ✓		48005			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	10		4				
	Benzo(a)anthracene	33:40	00:00	0	3236 ✓		1238			AVV	M
	Chrysene	33:47	00:00	0	3098 ✓		1449			AVB	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)Anthracene-d12	33:36	00:00	0	57915 ✓		26657			ABV	
	Chrysene-d12	33:43	00:00	0	56950 ✓		27312			AVB	
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
	Terphenyl-d14	30:30	00:00	0	2613 ✓		1316			ABB	
252					252.0000		252.0000				
	Noise	00:00	00:00	0	48		19				
	Benzo(b)fluoranthene	36:38	00:00	0	3198 ✓		1298			MBV	M
	Benzo(k)fluoranthene	36:41	00:00	0	2474 ✓		1037			AVB	M
	Benzo(e)pyrene	37:26	00:00	0	2688 ✓		999			MBV	M
	Benzo(a)pyrene	37:35	00:00	0	2197 ✓		834			MVB	M
	Perylene	37:49	00:00	0	2306 ✓		857			MBB	M
264					264.0000		264.0000				

Notes:
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Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution Factor 1.00	Code YA1

View Small Peaks? False

View deleted peaks? False

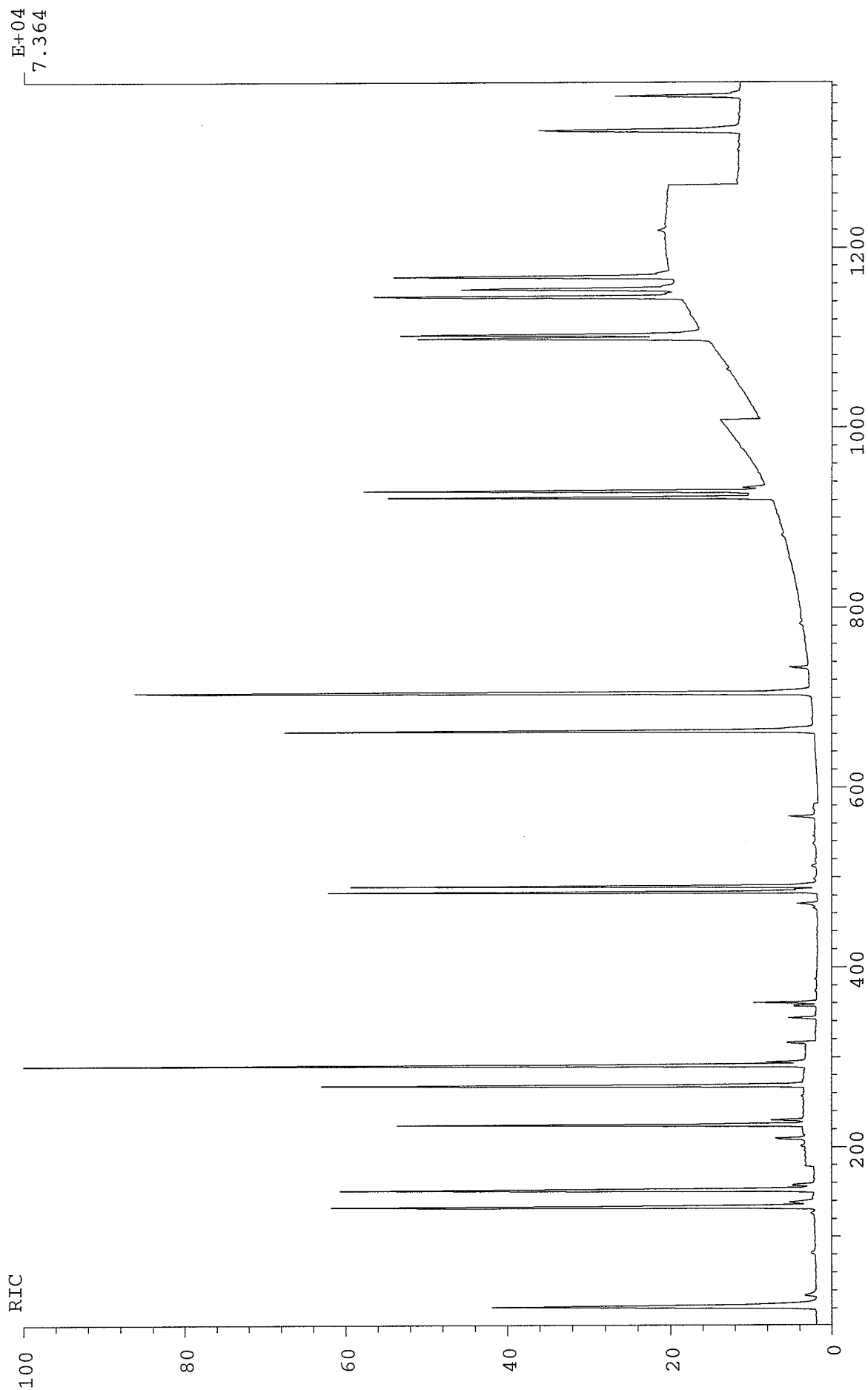
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Noise	00:00	00:00	0	20		8				
	Benzo(b)Fluoranthene-d1	36:34	00:00	0	49326 ✓		21054			ABV	M
	Benzo(k)Fluoranthene-d1	36:38	00:00	0	57010 ✓		21213			AVB	M
	Benzo(e)pyrene-d12	37:22	00:00	0	58531 ✓		22066			ABV	M
	Benzo(a)Pyrene-d12	37:31	00:00	0	42952 ✓		15835			AVV	M
	Perylene-d12	37:45	00:00	0	52193 ✓		19771			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	10		4				
	Indeno(1,2,3-cd)pyrene	41:10	00:00	0	2214 ✓		566			AVB	
	Benzo(ghi)perylene	42:11	00:00	0	2181 ✓		549			AVB	M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	15		6				
	Dibenz(a,h)anthracene	41:10	00:00	0	1764 ✓		530			MBB	
288					288.0000		288.0000				
	Noise	00:00	00:00	0	20		8				
	Indeno(1,2,3-cd)pyrene-	41:05	00:00	0	43258 ✓		10449			ABV	
	Benzo(ghi)Perylene-d12	42:04	00:00	0	31808 ✓		8741			ABB	
292					292.0000		292.0000				
	Noise	00:00	00:00	0	15		6				
	Dibenz(ah)Anthracene-d1	41:03	00:00	0	22605 ✓		6796			ABV	
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

CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wdw: 1 > 1384
Area: 5, 0.50, 0 Baseline : 100, 3
Disp: Height Area

26-APR-06

Elapse: 15:36.1
Start : 18:49:001
1384Study : ICAL
Inlet :
Masses: 0 > 308
Label : 0, 0.0Int Calc: *G ykuboo*
QC *VMK 4/27/06*

Data File: /var/chem/gcms/my.i/y0604261.b/dfy04265.d

Date : 26-APR-2006 17:39

Client ID: Tune

Instrument: my.i

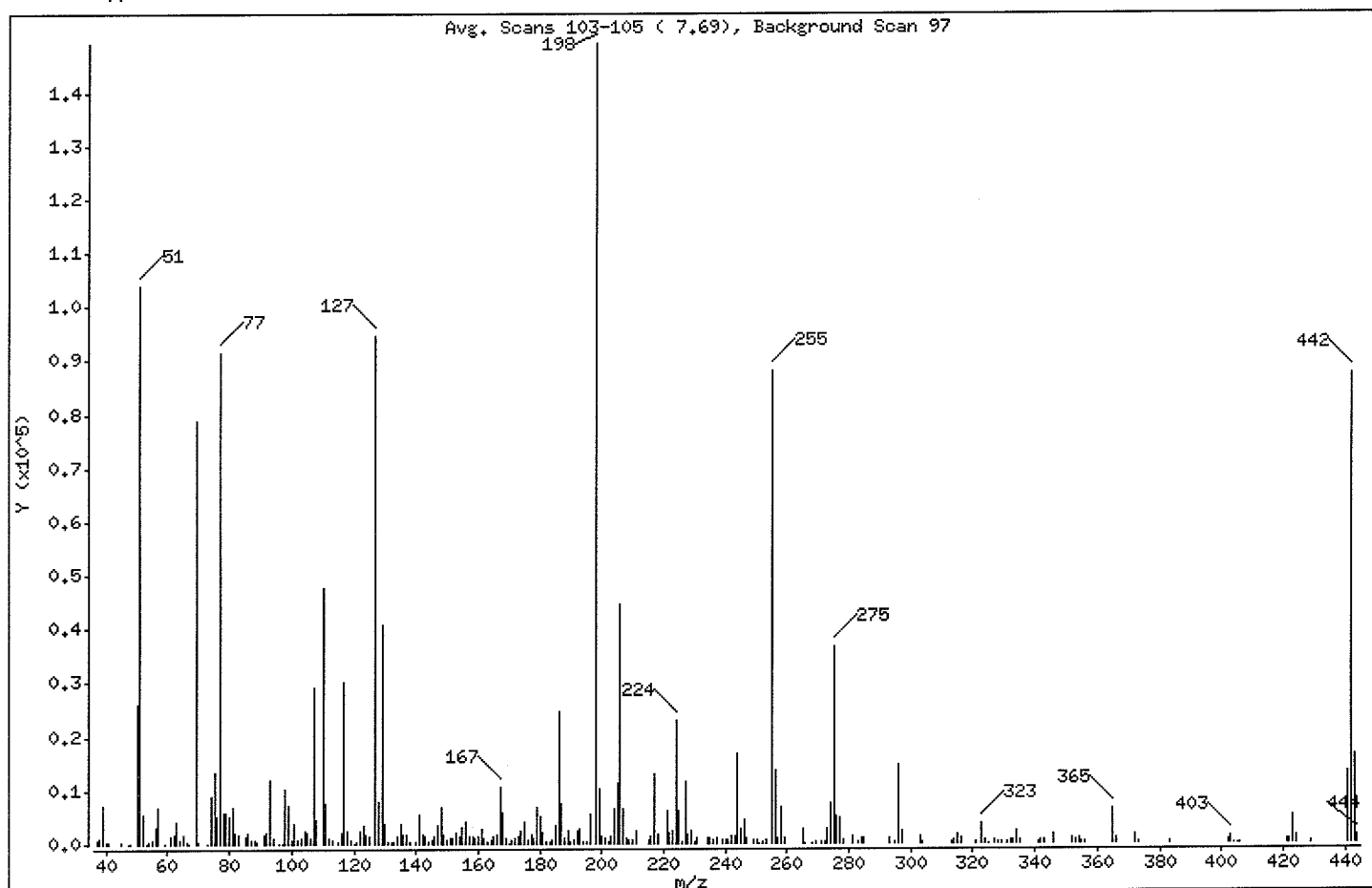
Sample Info: Y0604261,DFTPP

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	69.65
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	52.99
70	Less than 2.00% of mass 69	0.20 (0.37)
127	25.00 - 75.00% of mass 198	63.49
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.88
275	10.00 - 30.00% of mass 198	24.54
365	Greater than 0.75% of mass 198	4.48
441	Present, but less than mass 443	8.98
442	40.00 - 110.00% of mass 198	58.60
443	15.00 - 24.00% of mass 442	11.14 (19.01)

Data File: /var/chem/gcms/my.i/y0604261.b/dfy04265.d

Date : 26-APR-2006 17:39

Client ID: Tune

Instrument: my.i

Sample Info: Y0604261.DFTPP

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

Data File: dfy04265.d

Spectrum: Avg. Scans 103-105 (7.69), Background Scan 97

Location of Maximum: 198.00

Number of points: 261

m/z	Y	m/z	Y	m/z	Y	m/z	Y

37.00	644	118.00	2402	186.00	24736	269.00	216
38.00	955	119.00	721	187.00	7609	271.00	176
39.00	7213	120.00	56	188.00	932	272.00	172
40.00	205	121.00	350	189.00	2379	273.00	2912
41.00	266	122.00	2532	190.00	214	274.00	7377

45.00	197	123.00	3509	191.00	831	275.00	36592
47.00	112	124.00	1568	192.00	2352	276.00	4972
48.00	26	125.00	1206	193.00	2626	277.00	4872
50.00	26168	127.00	94672	194.00	432	278.00	690
51.00	103856	128.00	7879	195.00	176	281.00	1333

52.00	5327	129.00	40776	196.00	5352	283.00	220
53.00	147	130.00	3907	198.00	149120	284.00	962
54.00	479	131.00	363	199.00	10254	285.00	1015
55.00	686	132.00	341	200.00	1229	293.00	939
56.00	2919	133.00	374	201.00	876	295.00	256

57.00	6761	134.00	1404	202.00	328	296.00	14698
59.00	117	135.00	3691	203.00	1515	297.00	2362
61.00	1230	136.00	1576	204.00	6522	303.00	1511
62.00	1607	137.00	1755	205.00	11205	304.00	196
63.00	4215	138.00	418	206.00	44464	313.00	239

64.00	600	140.00	421	207.00	6349	314.00	830
65.00	1551	141.00	5460	208.00	951	315.00	1838
66.00	181	142.00	1686	209.00	522	316.00	1125
67.00	66	143.00	1499	210.00	789	321.00	230
69.00	79016	144.00	349	211.00	2324	323.00	3894

70.00	293	145.00	688	215.00	813	324.00	773
73.00	168	146.00	1273	216.00	1432	325.00	16
74.00	8978	147.00	3317	217.00	13181	327.00	580
75.00	13529	148.00	6937	218.00	1825	328.00	415
76.00	5047	149.00	1672	221.00	6012	329.00	228

77.00	91424	150.00	792	222.00	2132	331.00	190
78.00	5904	151.00	907	223.00	2550	332.00	713
79.00	5848	152.00	1007	224.00	23040	333.00	700
80.00	5171	153.00	2019	225.00	6335	334.00	2430
81.00	6742	154.00	1398	226.00	457	335.00	704

Data File: /var/chem/gcms/my.i/y060426i.b/dfy04265.d

Date : 26-APR-2006 17:39

Client ID: Tune

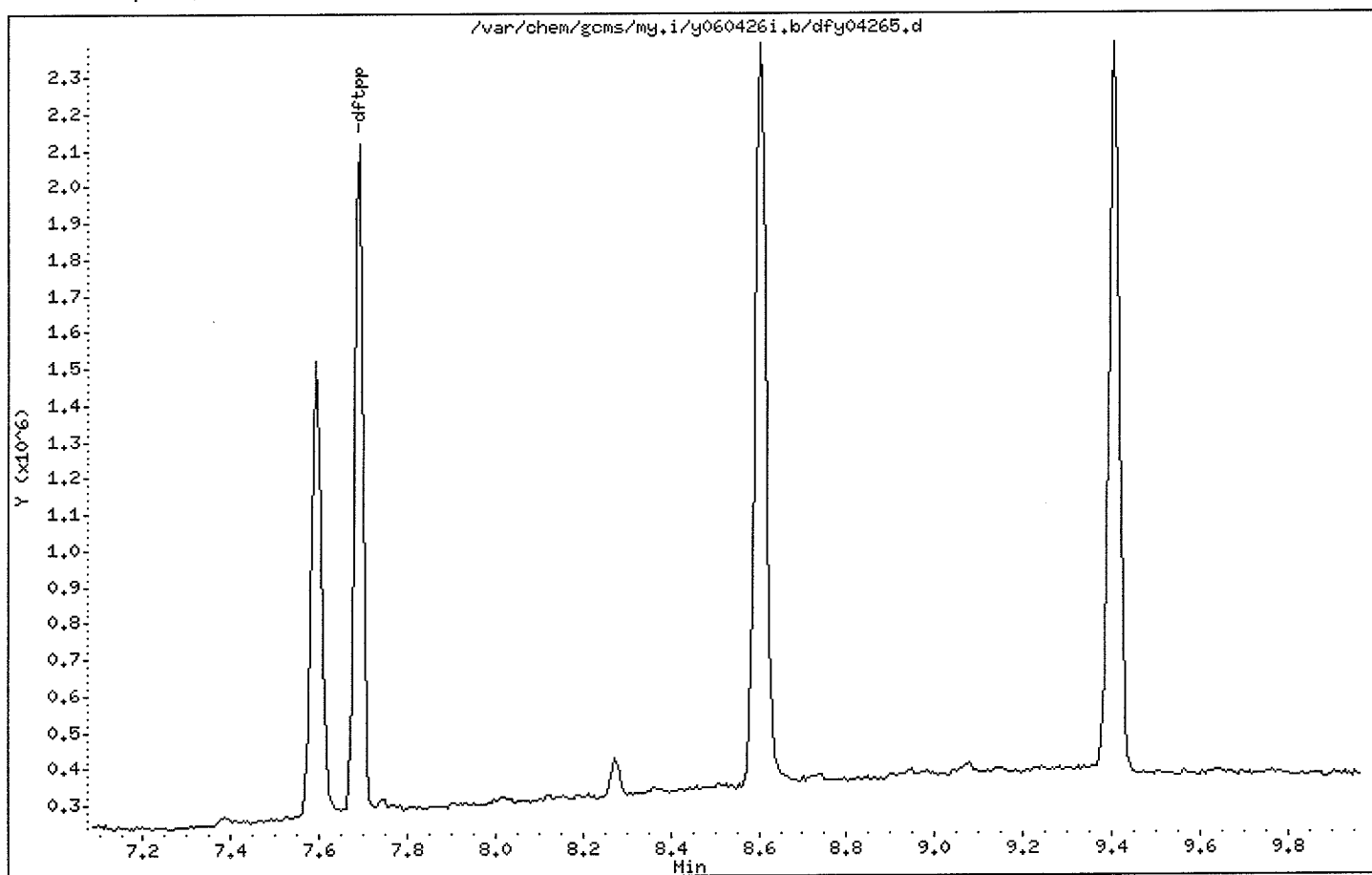
Instrument: my.i

Sample Info: Y060426I,DFTPP

Operator: JMN

Column phase: HP5-MS

Column diameter: 0.25

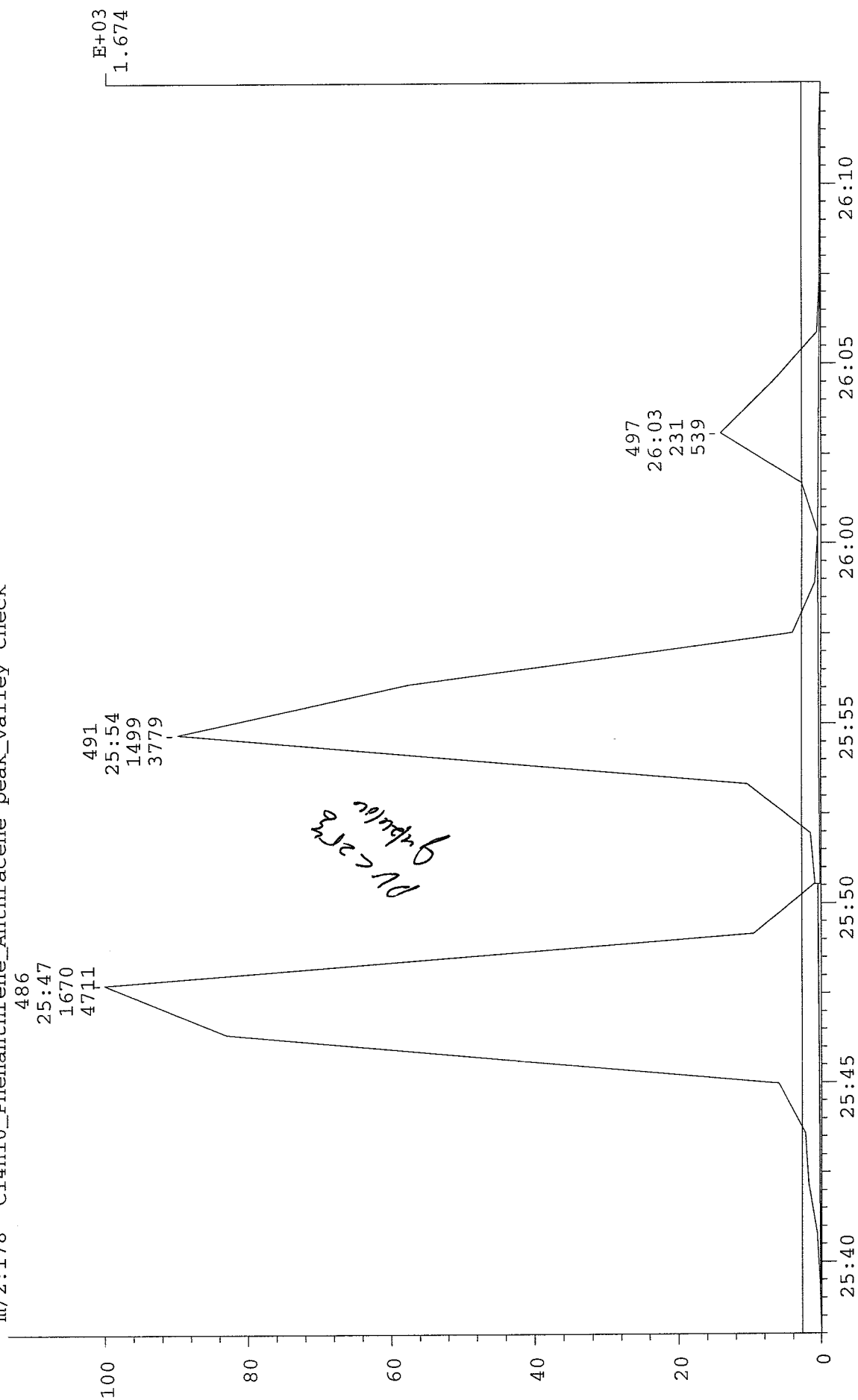


CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384

Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"



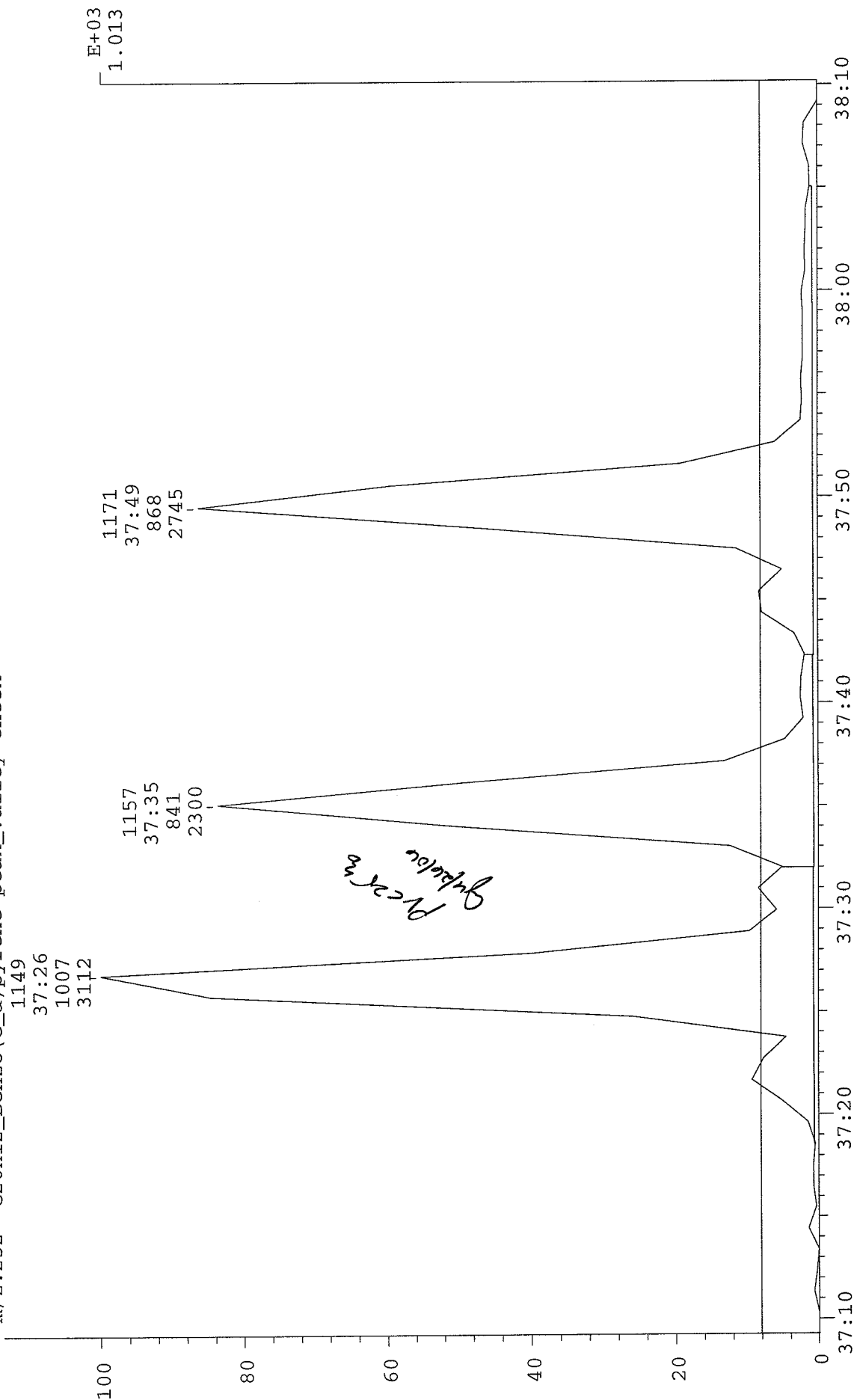
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

Elapse: 49:19 1735
Start : 18:49:00 1384

Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

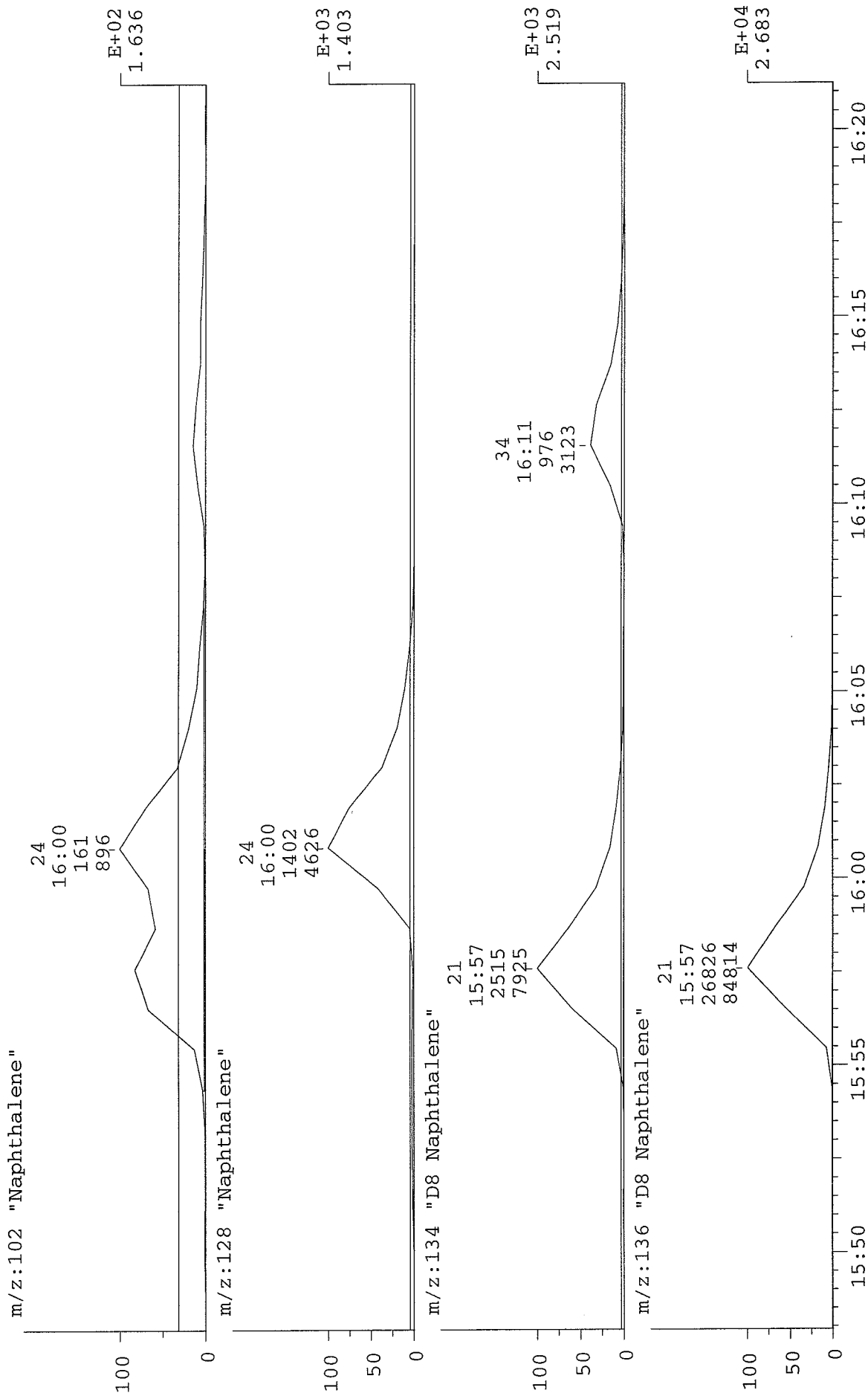
26-APR-06

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"



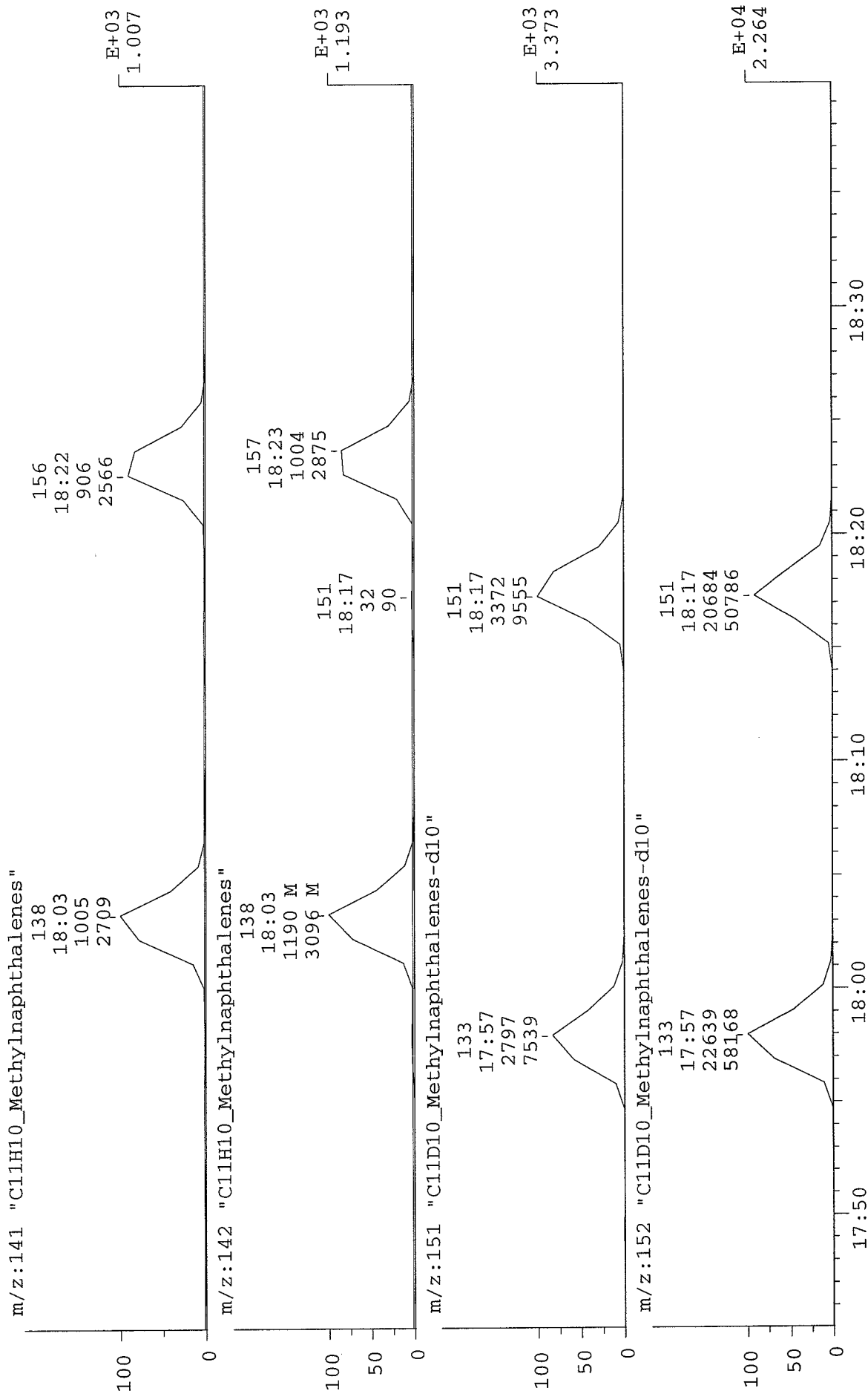
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 12 > 43
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



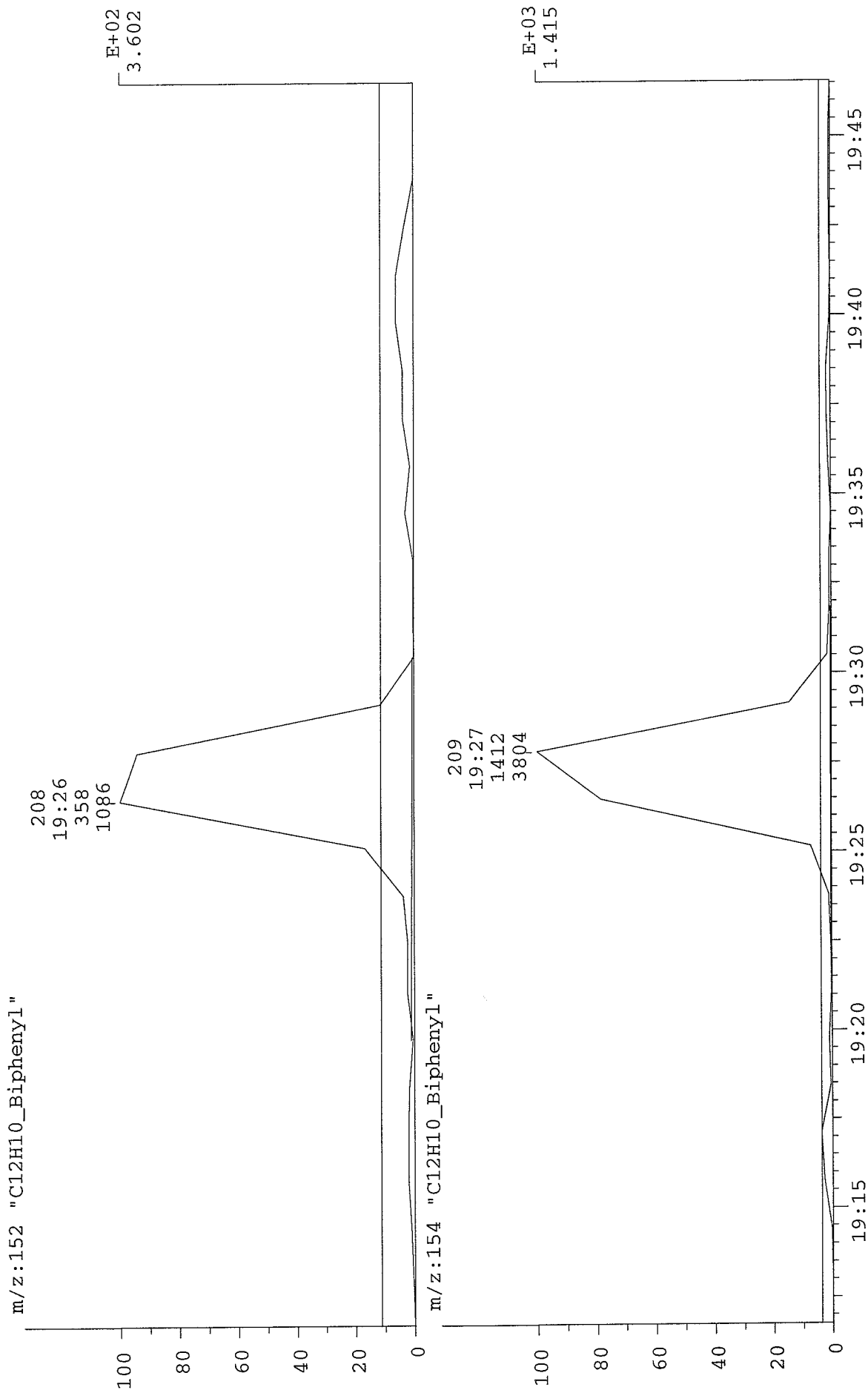
CHRO: y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 121 > 172
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 197 > 223
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



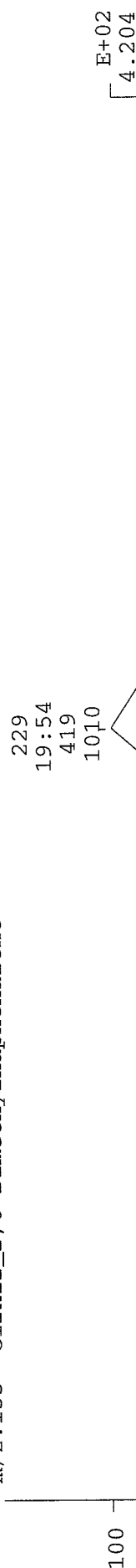
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 218 > 238
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 49:19 1735
Start : 18:49:00 1384

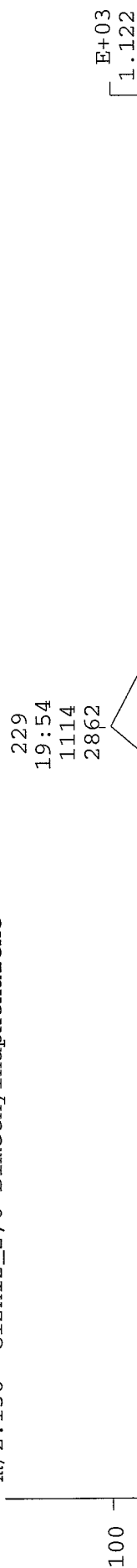
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

26-APR-06

m/z:155 "C12H12_2,6-Dimethylnaphthalene"



m/z:156 "C12H12_2,6-Dimethylnaphthalene"



m/z:167 "C12D12_2,6-Dimethylnaphthalene-d12"

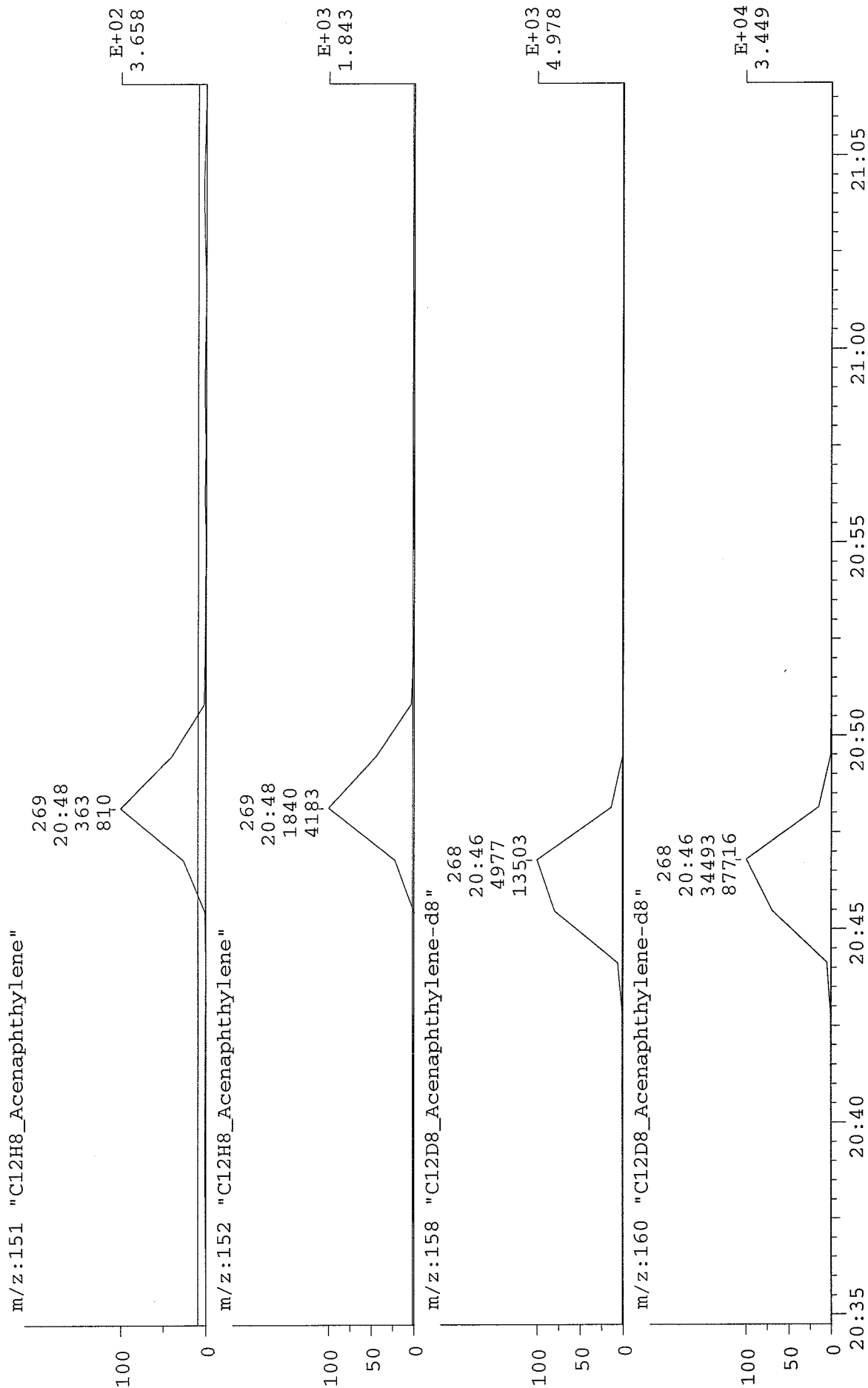


m/z:168 "C12D12_2,6-Dimethylnaphthalene-d12"



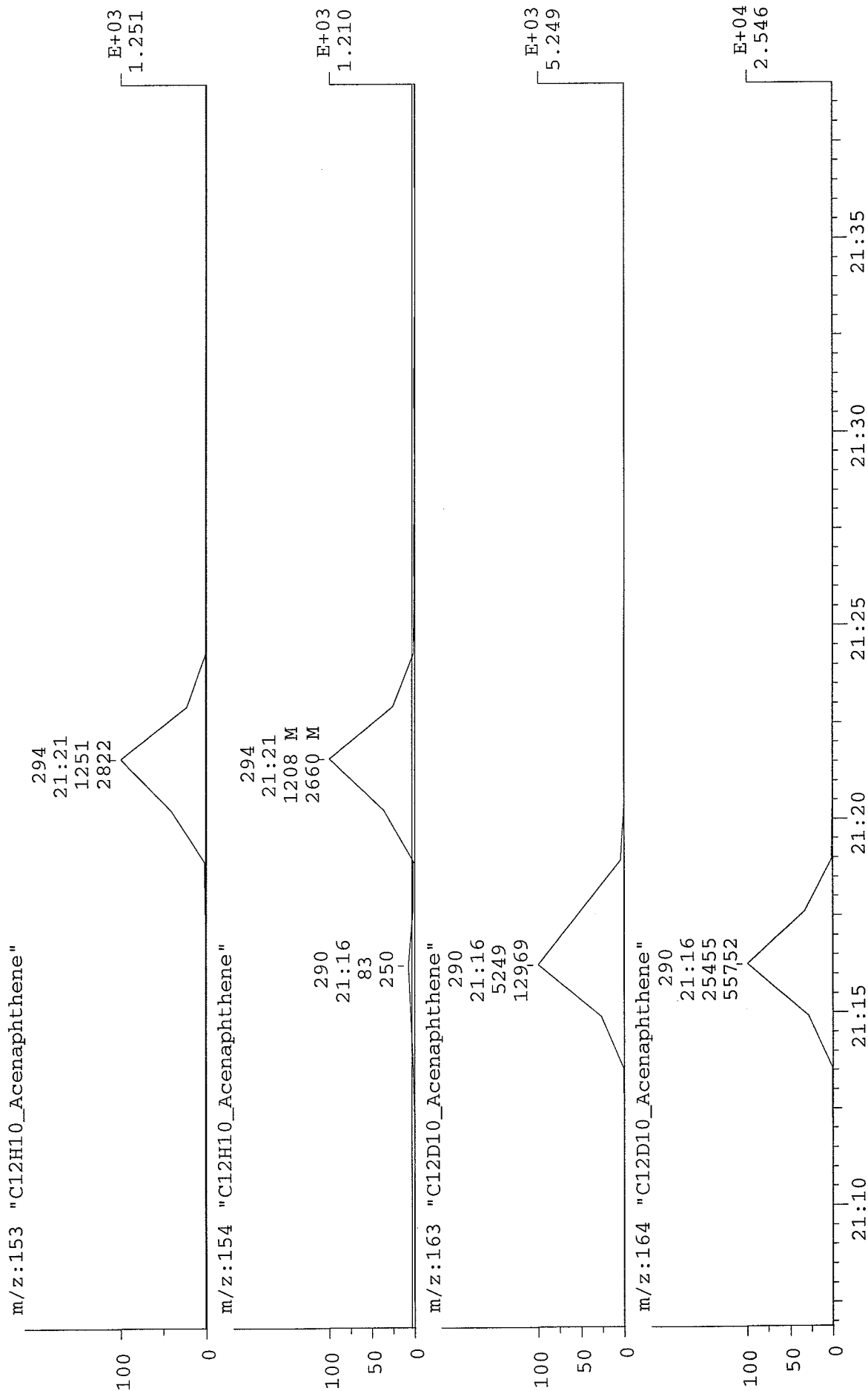
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 259 > 283
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



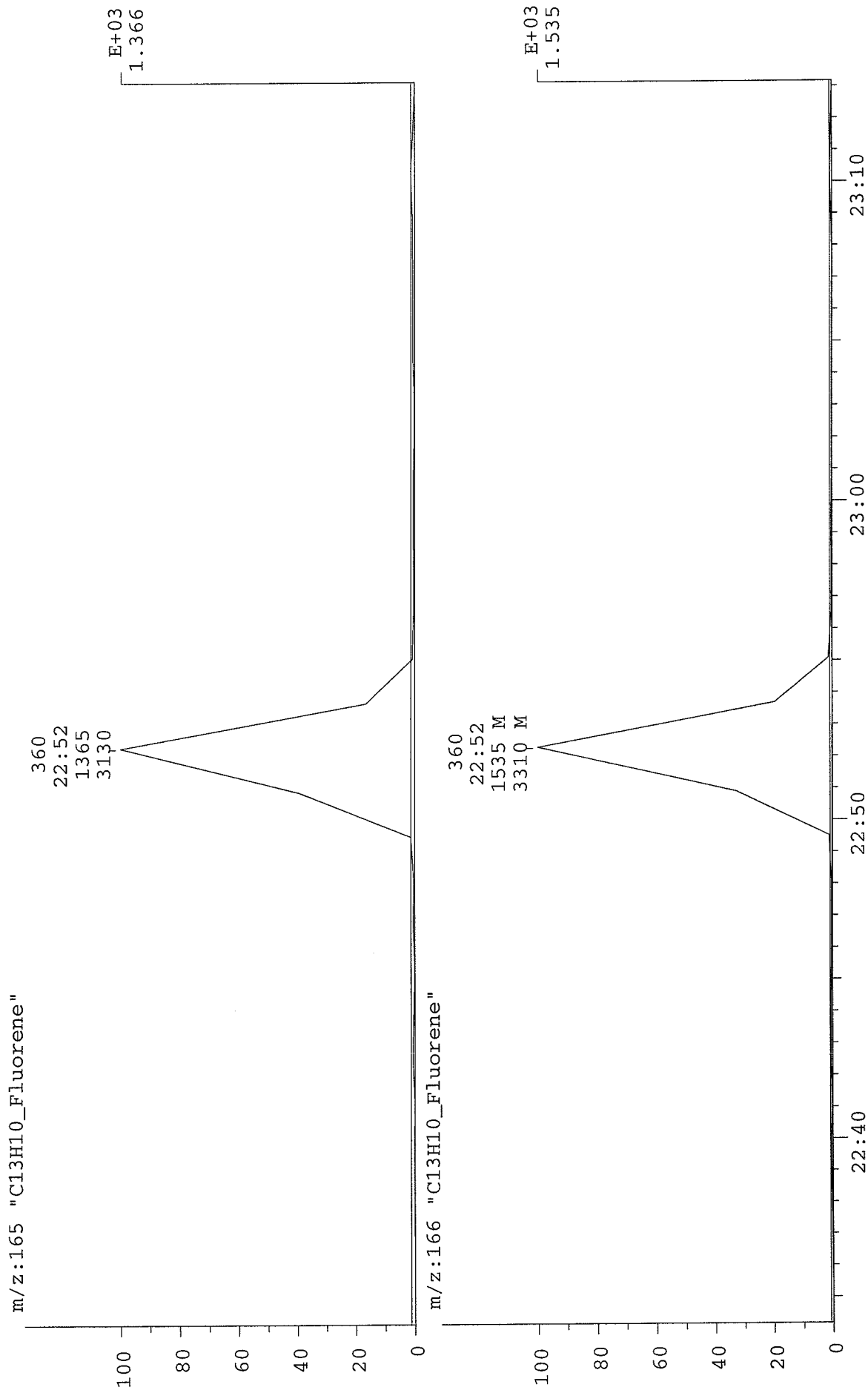
CHRO: y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 283 > 307
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



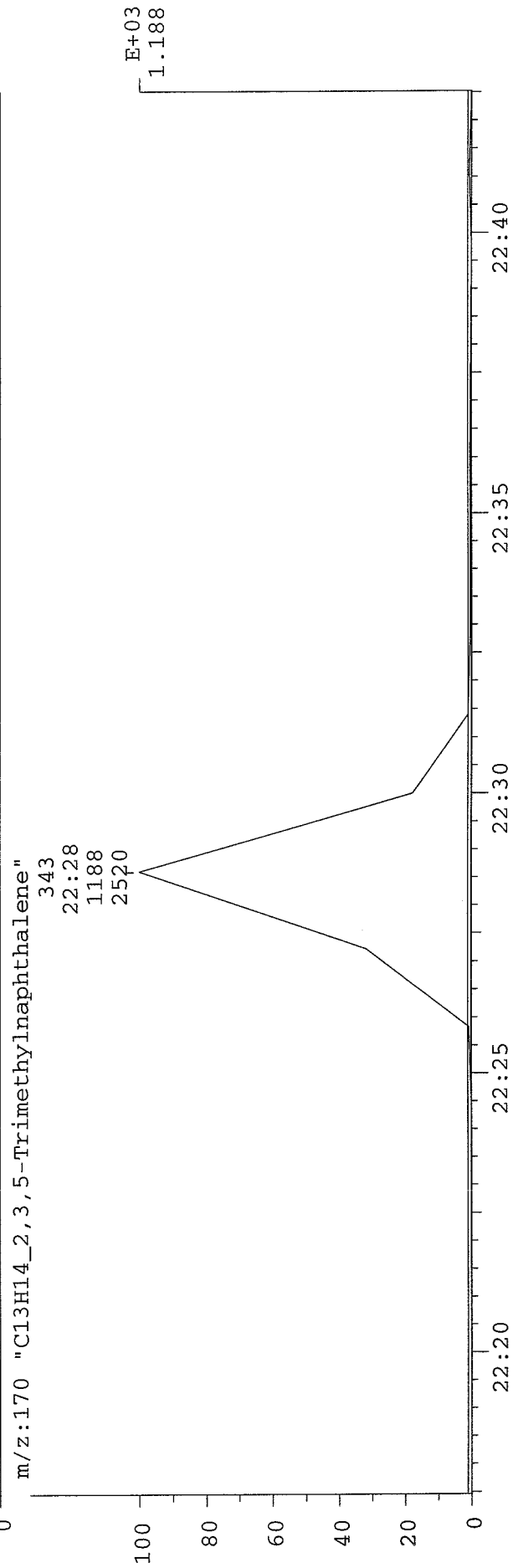
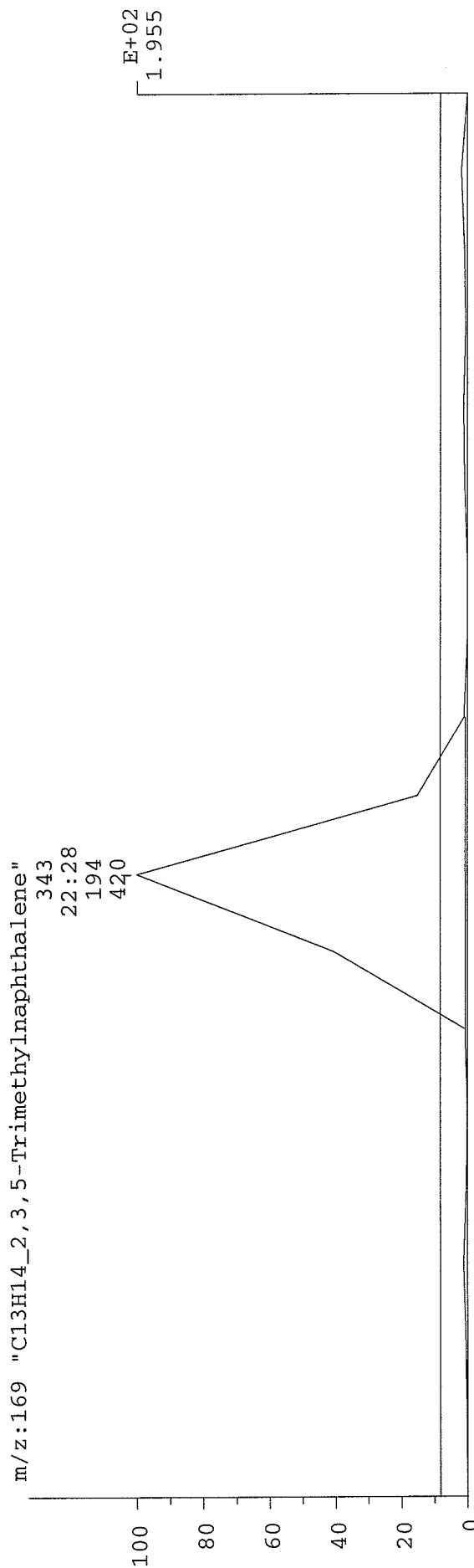
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 347 > 375
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

26-APR-06 Elapse: 41:00 1327
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



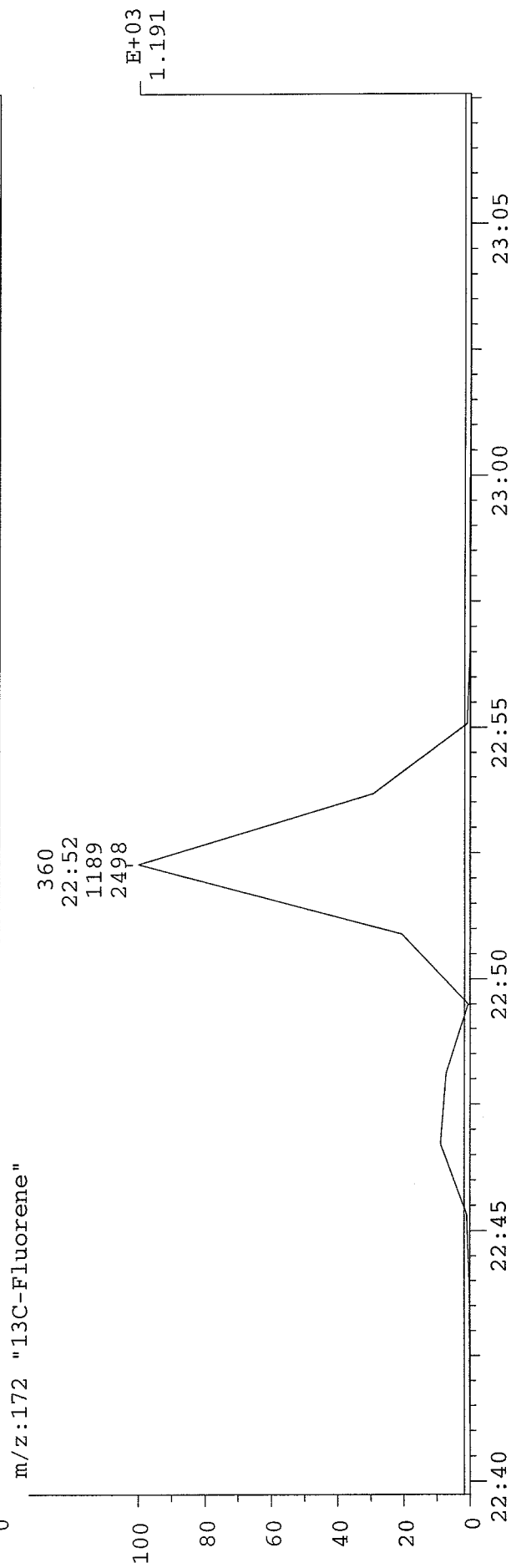
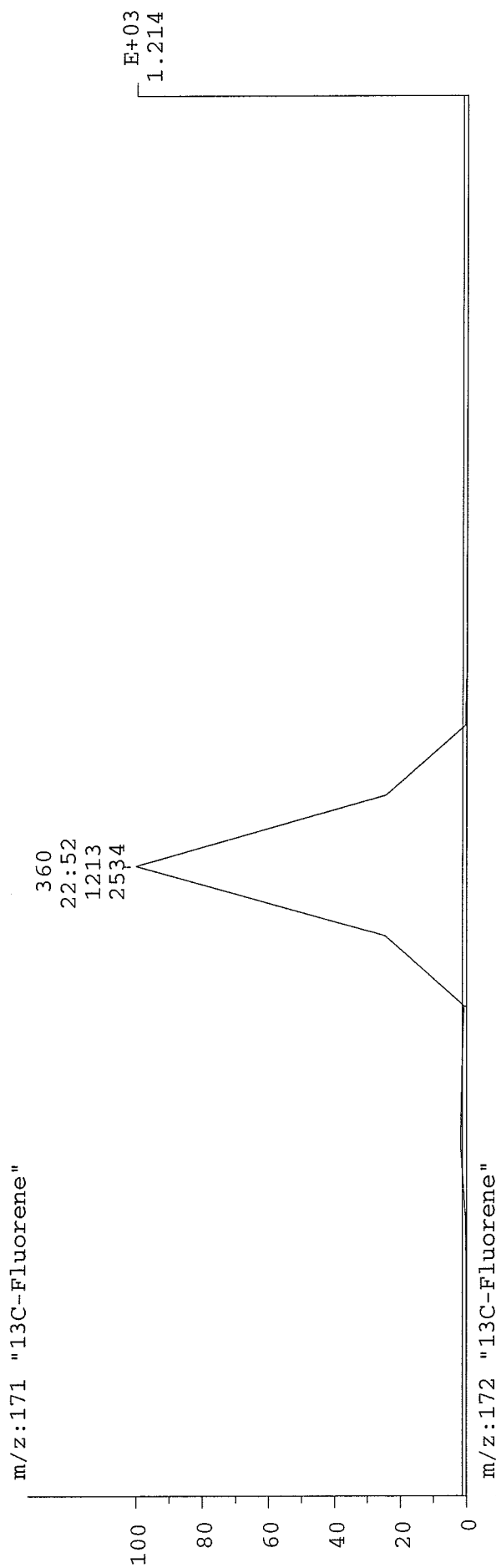
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 335 > 353
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



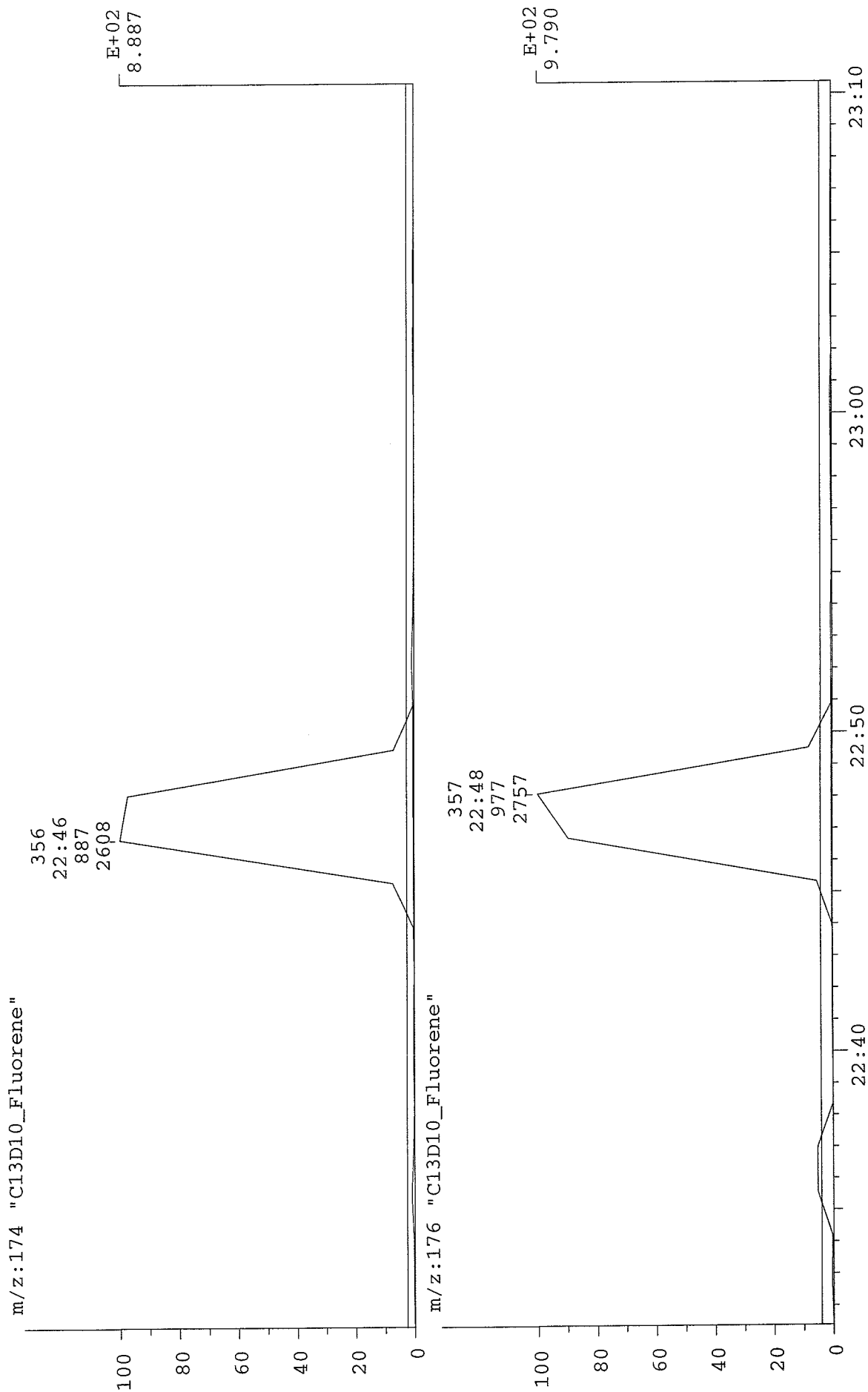
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 351 > 371
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 345 > 373
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060426i1
 Samp: WO=y060426i1 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 477 > 500
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

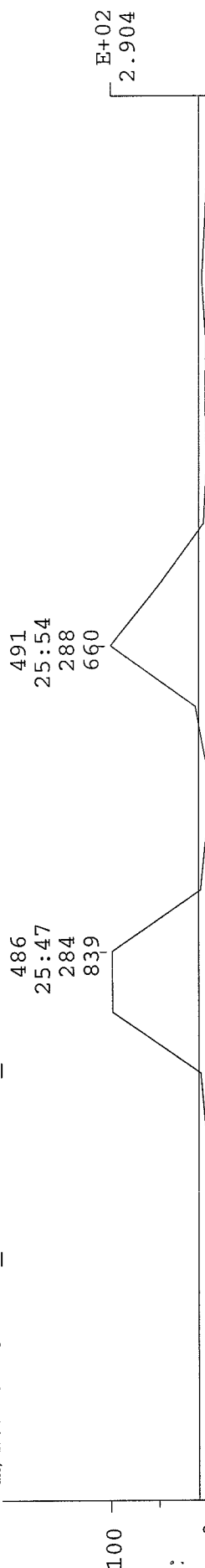
26-APR-06

Elapse: 49:19
 Start : 18:49:00

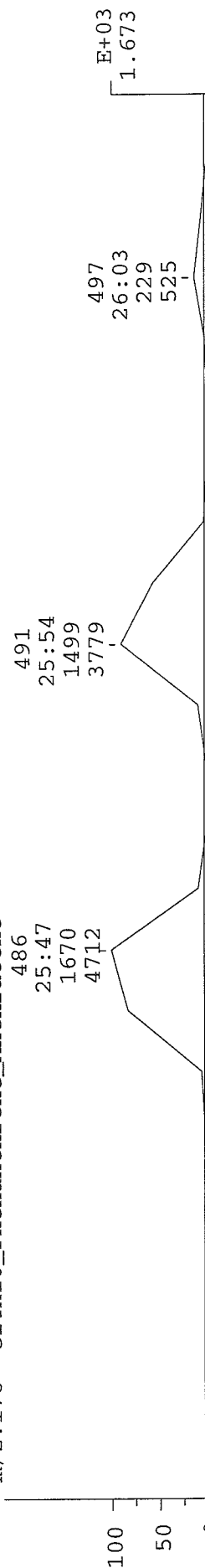
1735
 1384

Study : ICAL
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

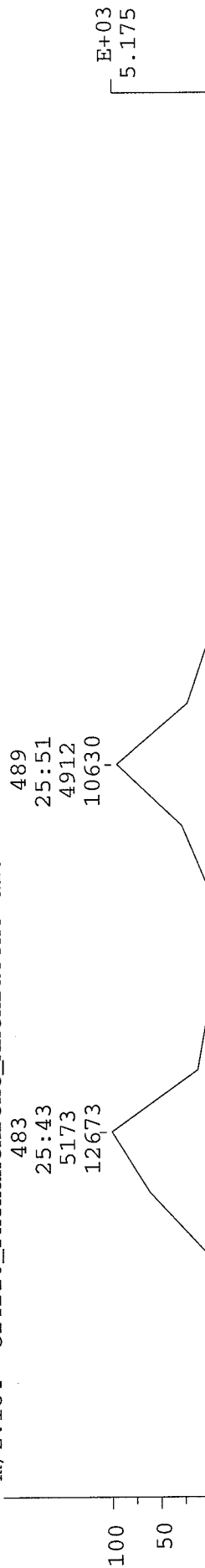
m/z:176 "C14H10_Phenanthrene_Anthracene"



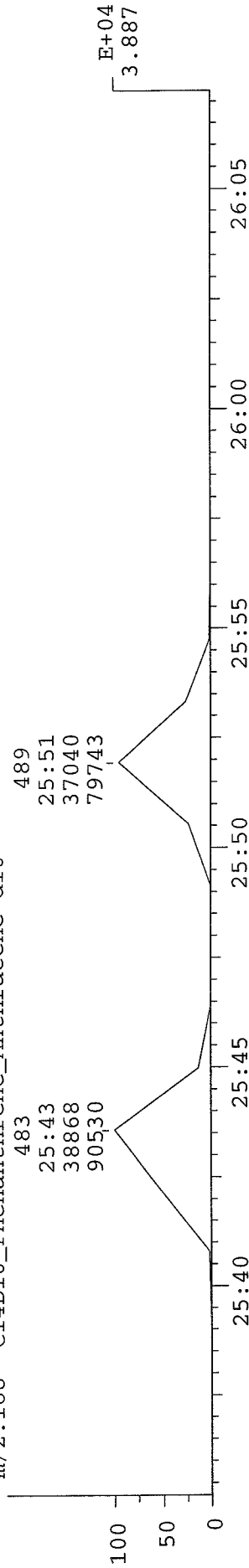
m/z:178 "C14H10_Phenanthrene_Anthracene"



m/z:184 "C14D10_Phenanthrene_Anthracene-d10"

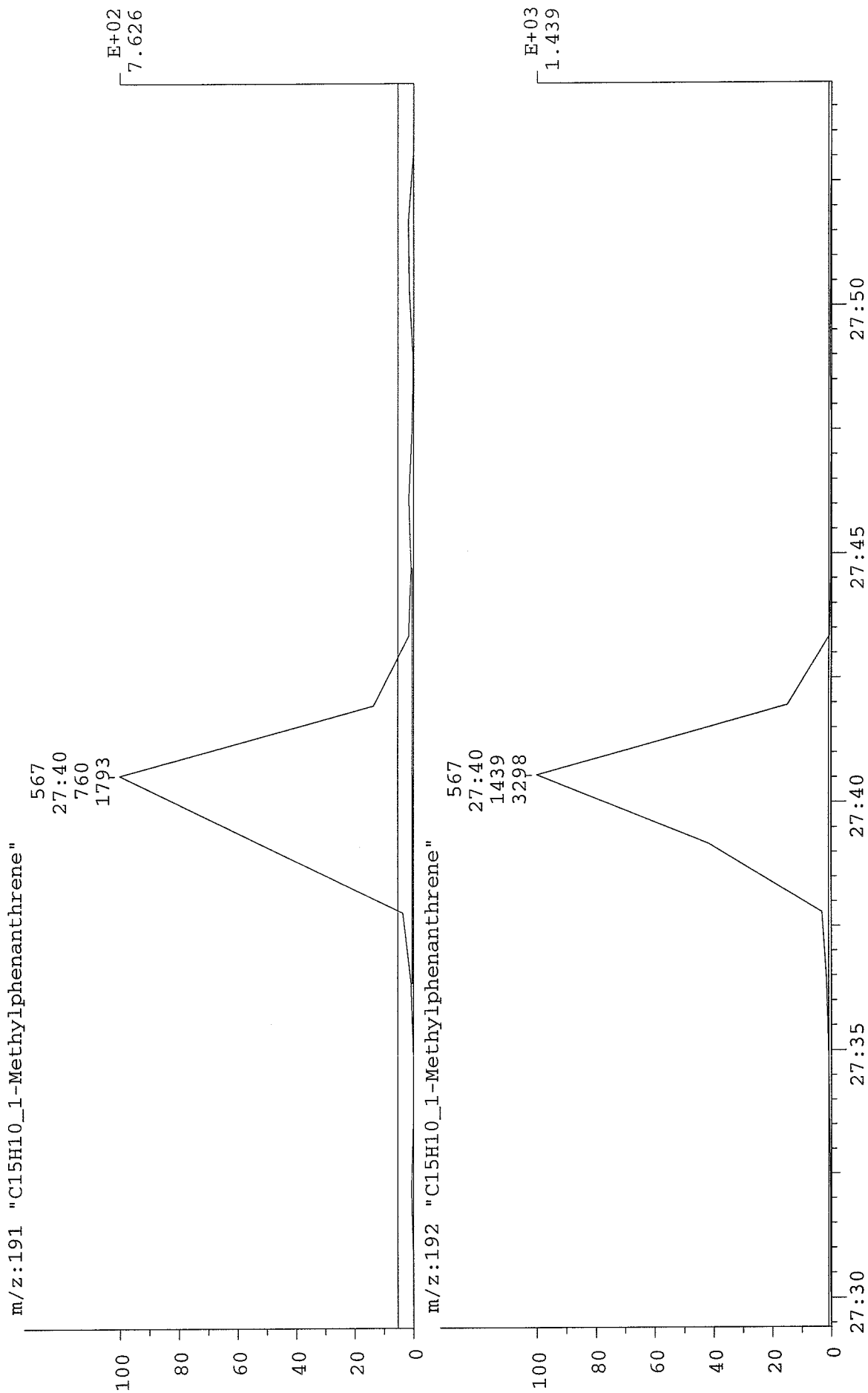


m/z:188 "C14D10_Phenanthrene_Anthracene-d10"



CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 559 > 577
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06
Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0



CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 648 > 725
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 49:19 1735
Start : 18:49:00 1384

Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:200 "C16H10_Fluoranthene_Pyrene"



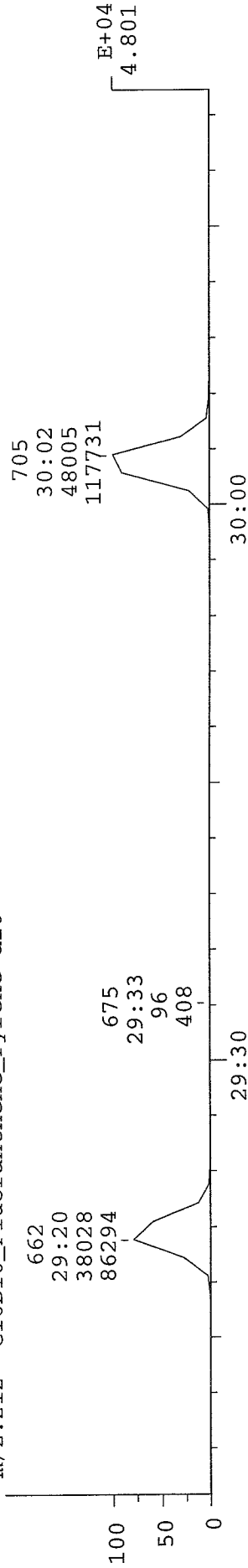
m/z:202 "C16H10_Fluoranthene_Pyrene"



m/z:208 "C16D10_Fluoranthene_Pyrene-d10"



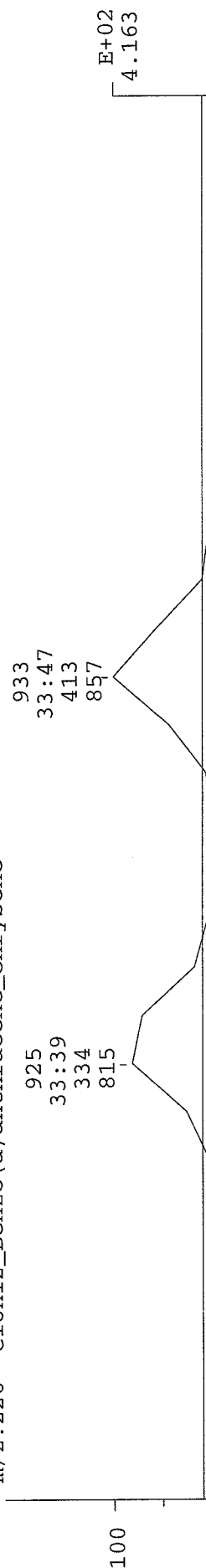
m/z:212 "C16D10_Fluoranthene_Pyrene-d10"



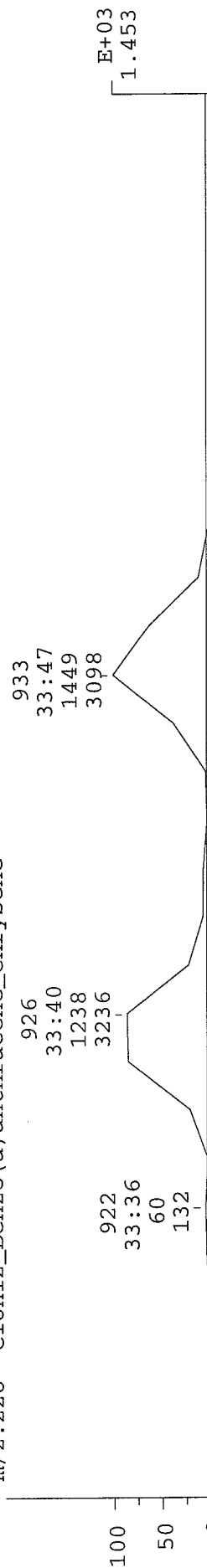
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 916 > 945
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

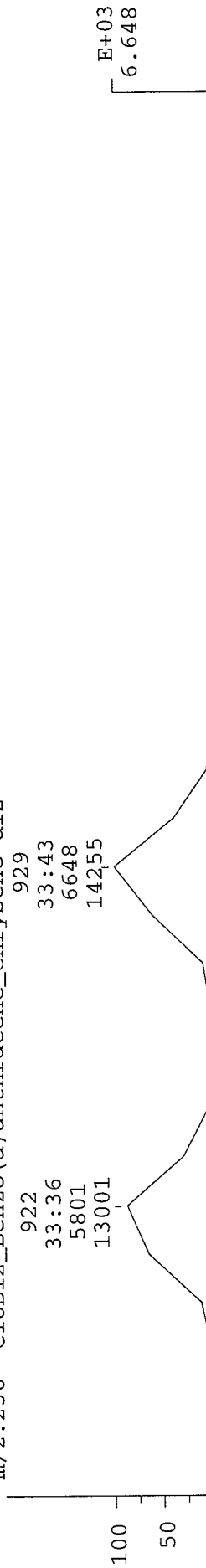
m/z:226 "C18H12_Benzo(a)anthracene_Chrysene"



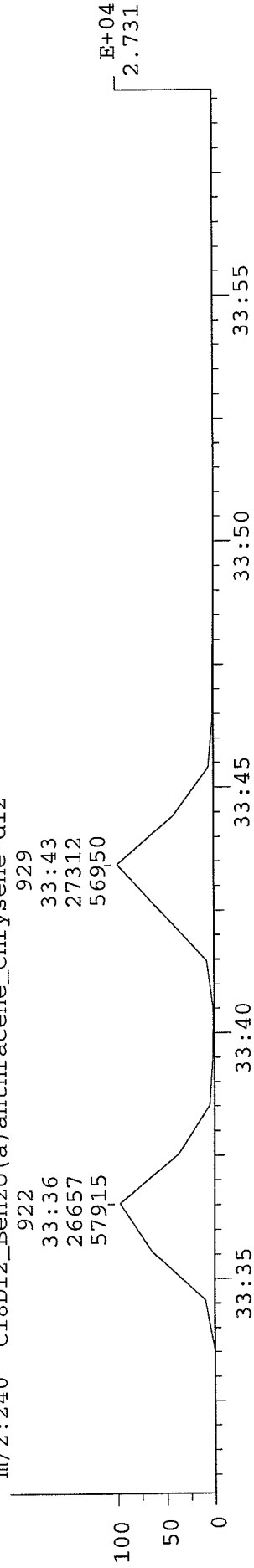
m/z:228 "C18H12_Benzo(a)anthracene_Chrysene"



m/z:236 "C18D12_Benzo(a)anthracene_Chrysene-d12"



m/z:240 "C18D12_Benzo(a)anthracene_Chrysene-d12"

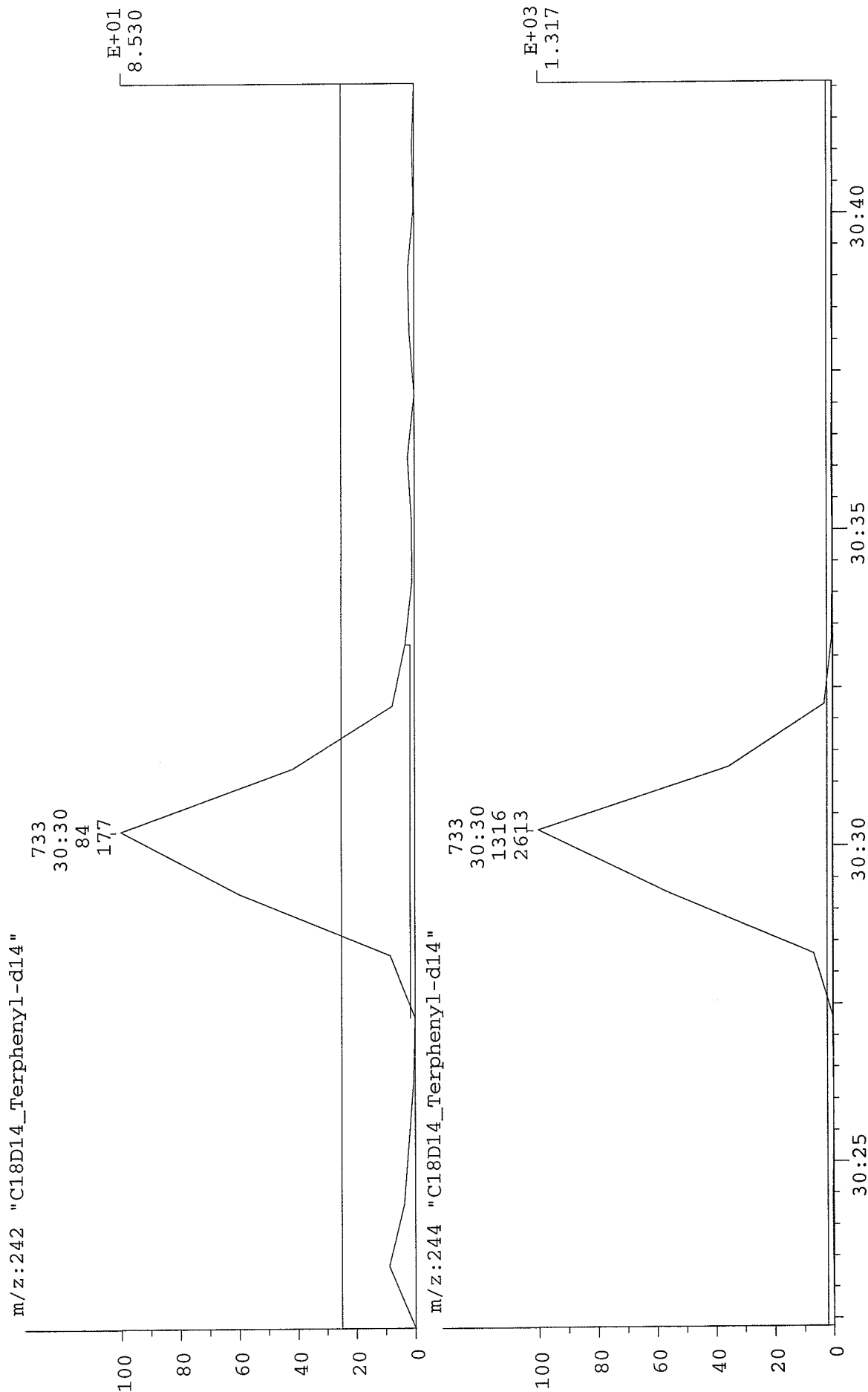


CHRO: Y060426i1
 Samp: WO=y060426i1 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 725 > 745
 Area: 5, 0.50, 15 Baseline : 100, 3
 Disp: Height Area

26-APR-06

Elapse: 49:19 1735
 Start : 18:49:00 1384

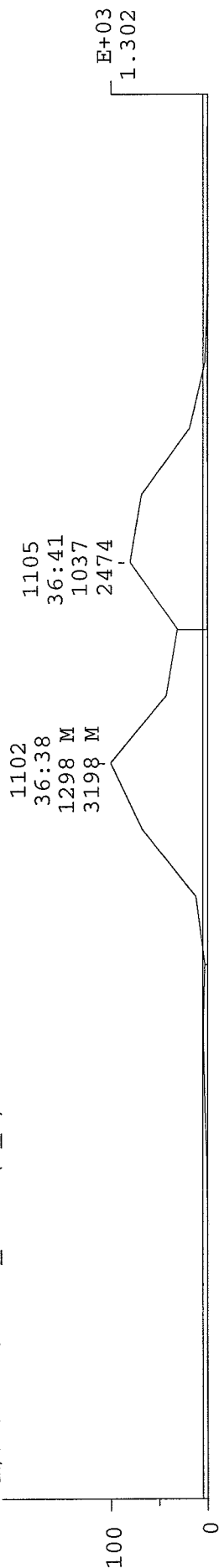
Study : ICAL
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0



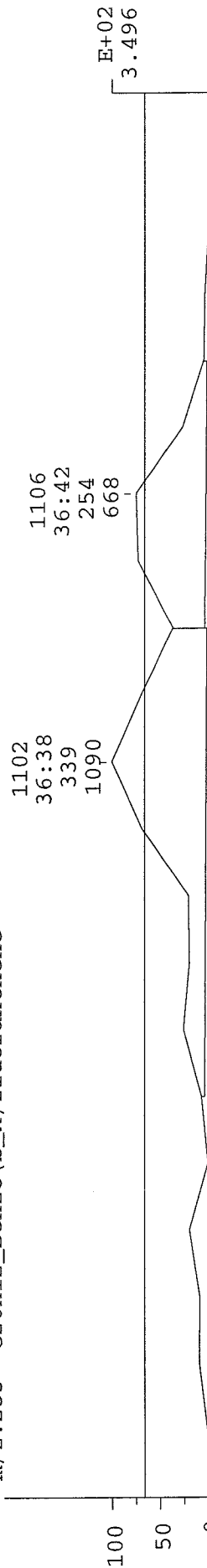
CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1091 > 1112
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

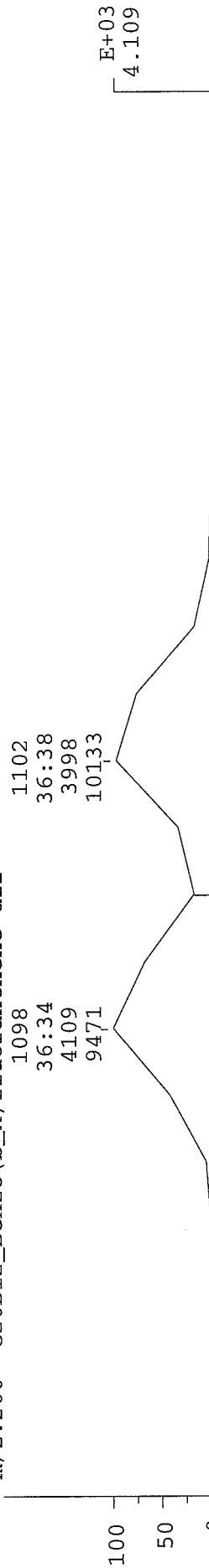
m/z:252 "C20H12_Benzo(b_k)fluoranthene"



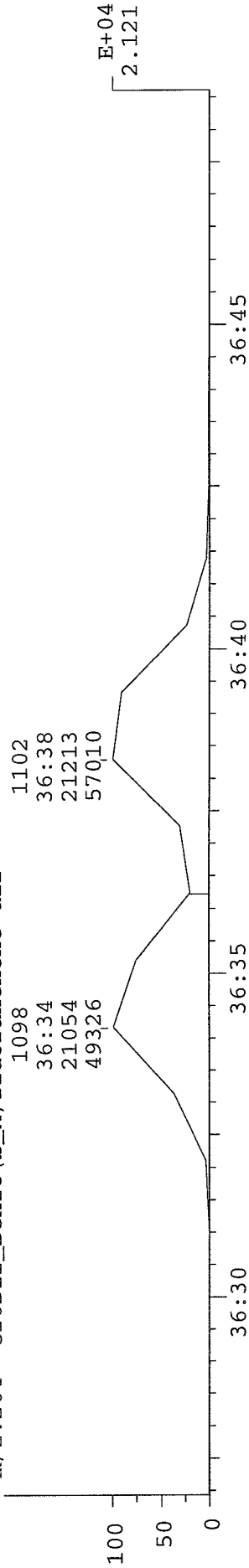
m/z:253 "C20H12_Benzo(b_k)fluoranthene"

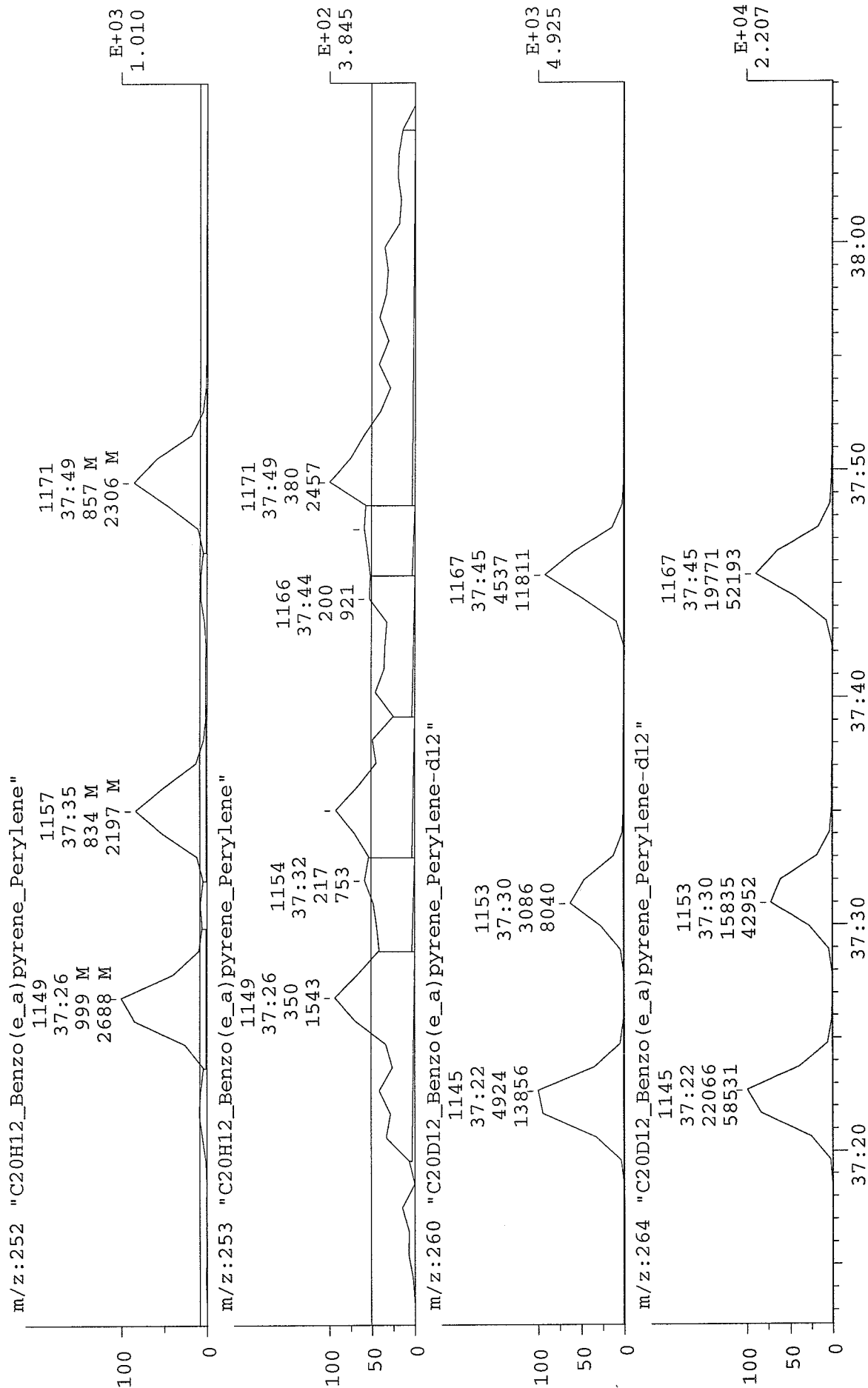


m/z:260 "C20D12_Benzo(b_k)fluoranthene-d12"



m/z:264 "C20D12_Benzo(b_k)fluoranthene-d12"



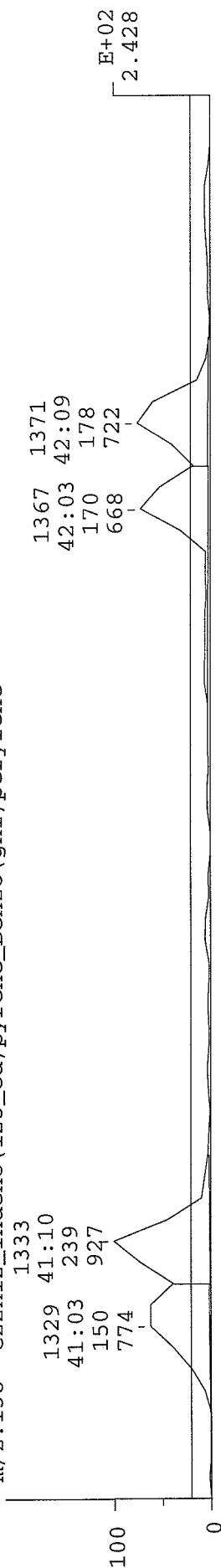


CHRO: Y060426i1
Samp: WO=y060426i1 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1321 > 1387
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

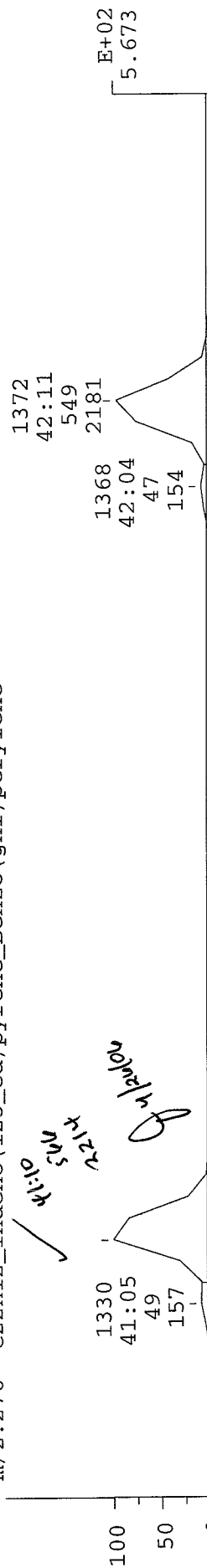
26-APR-06 Elapse: 49:19 1735
Start : 18:49:00 1384

Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:138 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



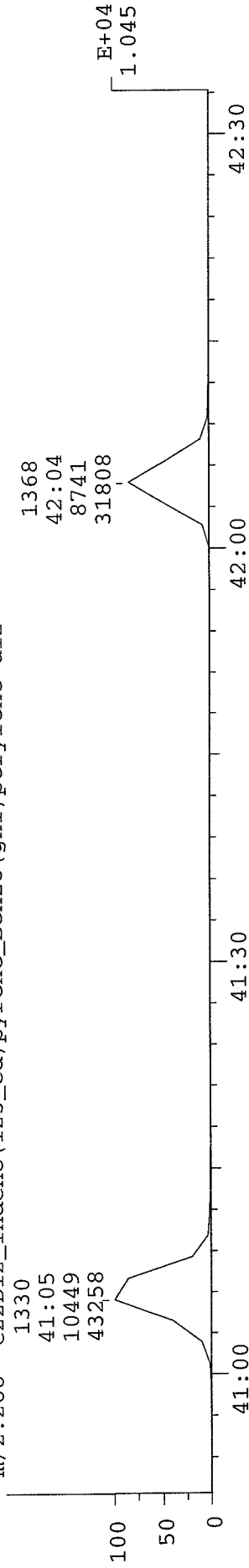
m/z:276 "C22H12_Indeno(123_cd)pyrene_Benzo(ghi)perylene"



m/z:284 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"



m/z:288 "C22D12_Indeno(123_cd)pyrene_Benzo(ghi)perylene-d12"

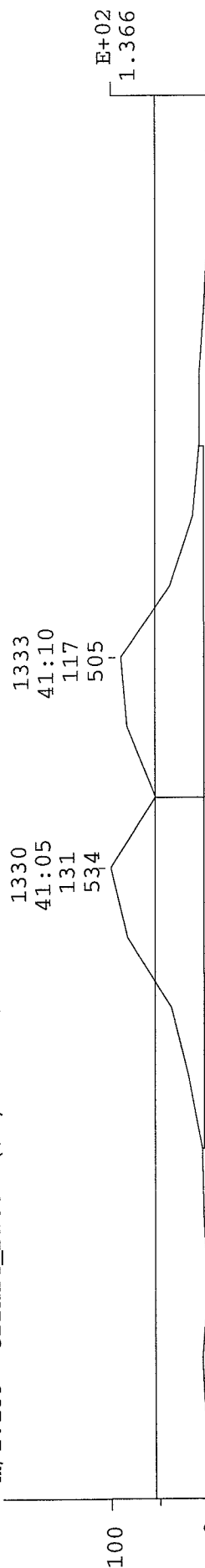


CHRO: Y060426i1
 Samp: WO=y060426i1 Meth=YA1 Dil=1
 Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
 Mode: EI +VE + LMR (LIN) UP LR NETCDF
 Oper: JMN Client: STL Knoxville
 Peak: 100.00 ppm Label wndw: 1321 > 1341
 Area: 5, 0.50, 15 Baseline : 100, 1
 Disp: Height Area

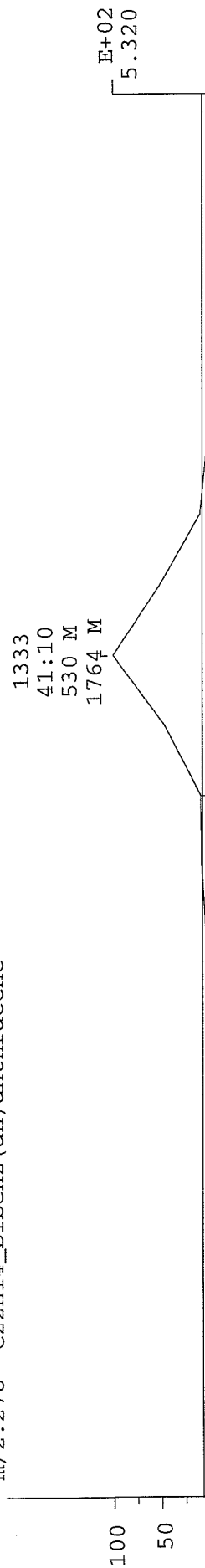
26-APR-06 Elapse: 49:19 1735
 Start : 18:49:00 1384

Study : ICAL
 Inlet :
 Masses: 0 > 308
 Label : -2, 3.0

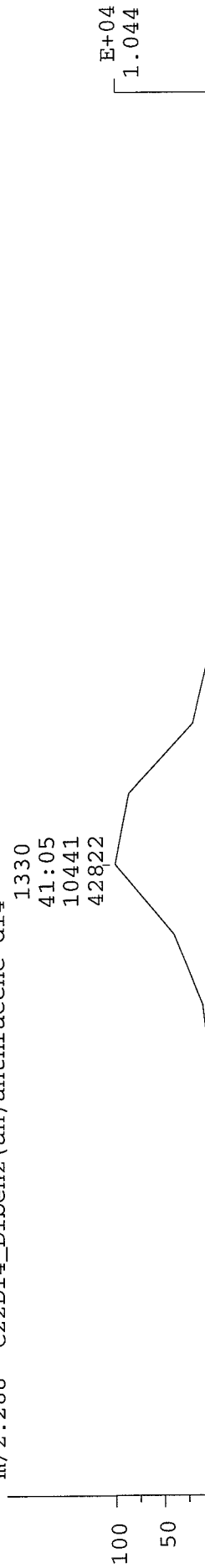
m/z:139 "C22H14_Dibenz(ah)anthracene"



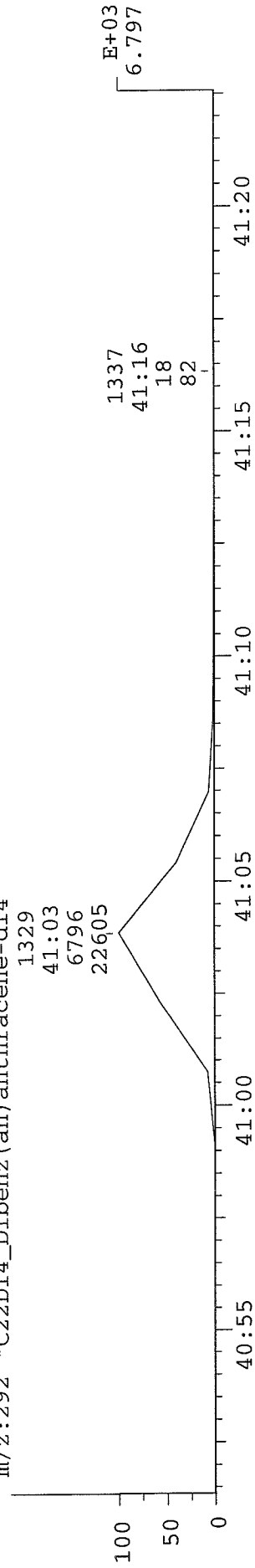
m/z:278 "C22H14_Dibenz(ah)anthracene"



m/z:288 "C22D14_Dibenz(ah)anthracene-d14"



m/z:292 "C22D14_Dibenz(ah)anthracene-d14"



File: Y60426I1.D
 Date Acquired: 26 Apr 2006 6:49 pm
 Operator:
 Instrument: MY
 Method File: SIM60ML.M
 Sample Name: Y060426I1
 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 Wed Apr 26 20:09:05 2006
 d:\cdf\files\Y60426I1.CDF Translated at Wed Apr 26 20:09:05 2006 Elapsed: 1 sec
 ICIS cdf2dat - Converting AIA CDF File to ICIS DAT file
 - Started Conversion: Wed Apr 26 14:35:00 EDT 2006

Finnigan-MAT (R) MS Data Interchange Program

Mass Spectral File (output): /usr/users/hp/data/y60426i1.dat
 NetCDF File (input): /usr/users/hp/data/y60426i1.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 14:35:01 EDT 2006

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

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder Y060426I2	Prep Batch	Lot No
Data File /20060426i/y060426i2.d	Prep Date	SDG No
Analysis ID 90303	Prep Exp Date	Date Received
Analysis Date 4/26/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 20:28	Initial Wt/Vol	Lims Test Code
Anal Exp Date	Extract Vol	Method DXLPAH
Instrument H2A	Dil Factor 1.0	Code YAL
Analyst JMN		

Analyte	RT	Area	Height	RF	Std Amt	Amount	Rec	Conc (ng/mL)	DL (ng/mL)
Naphthalene-d8	15:57	103416	32873	1.000	500.0	760.165829	152.03	760.165829	0.240
Naphthalene	16:00	25251	8284	1.000	100.0	122.084590	122.08	122.084590	0.380
1,4-Dichlorobenzene-d4					500.0			ND	0.000000
1,4-Dichlorobenzene				1.000	100.0			ND	0.000000
2-Methylnaphthalene	18:03	17626	6228	1.000	100.0	125.063859	125.06	125.063859	0.350
2-Methylnaphthalene-d10	17:58	70468	24966	1.000	500.0	517.979477	103.60	517.979477	0.280
1-Methylnaphthalene	18:22	16370	6367	1.000	100.0	134.017749	134.02	134.017749	0.358
1-Methylnaphthalene-d10	18:17	61074	24464	1.000	500.0	448.928288	89.79	448.928288	0.280
1-Chloronaphthalene				1.000	100.0			ND	0.000000
2-Chloronaphthalene				1.000	100.0			ND	0.000000
2-Chloronaphthalene-d7					500.0			ND	0.000000
Biphenyl	19:26	21449	7494	1.000	100.0	152.189646	152.19	152.189646	0.951
2,6-Dimethylnaphthalene	19:54	15876	7010	1.000	100.0	123.278098	123.28	123.278098	1.41
2,6-Dimethylnaphthalene-d1	19:47	64391	28361	1.000	500.0	473.310106	94.66	473.310106	0.200
C2-Alkyl-naphthalenes				1.000		123.278098		123.278098	1.41
Acenaphthylene	20:48	25103	11311	1.000	100.0	118.559136	118.56	118.559136	0.240
Acenaphthylene-d8	20:46	105867	36492	1.000	500.0	778.182059	155.64	778.182059	0.160
Acenaphthene-d10	21:16	68022	31225	1.000	500.0	500.000000	100.00	500.000000	0.320
Acenaphthene	21:21	15342	6727	1.000	100.0	72.458840	72.46	72.458840	0.651
2,3,5-Trimethylnaphthalene	22:28	14488	6746	1.000	100.0	112.500194	112.50	112.500194	0.220
C3-Alkyl-naphthalenes				1.000		112.500194		112.500194	0.190
Fluorene d-10	22:46	17497	6342	1.000	100.0	80.364689	80.36	80.364689	0.0839
Fluorene-C13	22:52	16249	7816	1.000	100.0	74.632556	74.63	74.632556	0.0839
Fluorene	22:52	19122	8651	1.000	100.0	87.828403	87.83	87.828403	0.168
Phenanthrene-d10	25:43	108860	44697	1.000	500.0	381.539195	76.31	381.539195	0.0901
Phenanthrene	25:47	25579	8793	1.000	100.0	117.485762	117.49	117.485762	0.112
Anthracene-d10	25:52	98156	45483	1.000	500.0	344.023160	68.80	344.023160	0.0901
Anthracene	25:54	21587	9074	1.000	100.0	99.150285	99.15	99.150285	0.112
1-Methylphenanthrene	27:40	18081	7974	1.000	100.0	83.047033	83.05	83.047033	0.168
Fluoranthene-d10	29:20	103412	46803	1.000	500.0	362.444711	72.49	362.444711	0.158
Fluoranthene	29:23	25644	10956	1.000	100.0	123.989479	123.99	123.989479	0.0801
Pyrene-d10	30:01	142659	55474	1.000	500.0	500.000000	100.00	500.000000	0.158
Pyrene	30:04	26126	9955	1.000	100.0	126.319963	126.32	126.319963	0.0801
Terphenyl-d14	30:30	15189	7424	1.000	100.0	73.439253	73.44	73.439253	0.0534
Benzo(a)Anthracene-d12	33:36	69209	31701	1.000	500.0	242.567942	48.51	242.567942	0.135
Benzo(a)anthracene	33:39	18009	7533	1.000	100.0	130.105911	130.11	130.105911	0.197
Chrysene-d12	33:43	68368	31964	1.000	500.0	239.620353	47.92	239.620353	0.135
Chrysene	33:47	17547	8279	1.000	100.0	128.327580	128.33	128.327580	0.196
Benzo(b)Fluoranthene-d12	36:34	59931	25724	1.000	500.0	416.112369	83.22	416.112369	0.562
Benzo(k)Fluoranthene-d12	36:38	69916	25665	1.000	500.0	485.440129	97.09	485.440129	0.562
Benzo(b)fluoranthene	36:38	17332	6830	1.000	100.0	144.599623	144.60	144.599623	0.875
Benzo(k)fluoranthene	36:41	14010	5869	1.000	100.0	100.191659	100.19	100.191659	0.877
Benzo(e)pyrene-d12	37:22	72013	26684	1.000	500.0	500.000000	100.00	500.000000	0.562
Benzo(e)pyrene	37:26	15260	5757	1.000	100.0	145.783179	145.78	145.783179	1.16
Benzo(a)Pyrene-d12	37:31	52338	19366	1.000	500.0	363.392721	72.68	363.392721	0.562
Benzo(a)pyrene	37:35	12578	4841	1.000	100.0	120.161260	120.16	120.161260	1.16
Perylene-d12	37:45	63541	23611	1.000	500.0	441.177287	88.24	441.177287	0.562
Perylene	37:49	13584	5055	1.000	100.0	106.891613	106.89	106.891613	0.953
3-Methylcholanthrene				1.000	100.0			ND	1.22

STL - Knoxville

IsoCalc Preliminary Sample Report

PAH's by LRMS Extended List



Workorder Y06042612	Prep Batch	Lot No
Data File /20060426i/y060426i2.d	Prep Date	SDG No
Analysis ID 90303	Prep Exp Date	Date Received
Analysis Date 4/26/2006	Matrix UNKNOWN	Date Sampled
Analysis Time 20:28	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	27650	8076	1.000	500.0	191.979226	38.40	191.979226	0.281
Indeno (1,2,3-cd) pyrene-d12	41:05	53435	13187	1.000	500.0	371.009401	74.20	371.009401	0.281
Indeno (1,2,3-cd) pyrene	41:10	12793	3263	1.000	100.0	119.706185	119.71	119.706185	0.474
Dibenz (a,h) anthracene	41:10	10285	2985	1.000	100.0	185.985533	185.99	185.985533	0.929
Benzo (ghi) Perylene-d12	42:04	39105	10768	1.000	500.0	271.513477	54.30	271.513477	0.281
Benzo (ghi) perylene	42:11	12293	3168	1.000	100.0	157.179389	157.18	157.179389	0.580
13C6-Dibenzo (a,e) pyrene					500.0			ND	0.000000
Dibenzo (a,e) pyrene				1.000	100.0			ND	0.000000



PAH's by LRMS Extended List

Workorder Y060426I2	Prep Batch	Lot No
Data File /20060426i/y060426i2.d	Prep Date	SDG No
Analysis ID 90303	Prep Exp Date	Date Received
Analysis Date 04/26/06 20:28	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	25		10				
	Naphthalene	16:00	00:00	0	25251		8284			ABV	M
136					136.0000		136.0000				
	Noise	00:00	00:00	0	15		6				
	Naphthalene-d8	15:57	00:00	0	103416		32873			ABV	
142					142.0000		142.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene	18:03	00:00	0	17626		6228			ABB	
	1-Methylnaphthalene	18:22	00:00	0	16370		6367			ABB	
152					152.0000		152.0000				
	Noise	00:00	00:00	0	18		7				
	2-Methylnaphthalene-d10	17:58	00:00	0	70468		24966			ABV	
	1-Methylnaphthalene-d10	18:17	00:00	0	61074		24464			AVB	
	Acenaphthylene	20:48	00:00	0	25103		11311			ABB	M
154					154.0000		154.0000				
	Noise	00:00	00:00	0	48		19				
	Biphenyl	19:26	00:00	0	21449		7494			ABB	
	Acenaphthene	21:21	00:00	0	15342		6727			AVB	M
156					156.0000		156.0000				
	Noise	00:00	00:00	0	80		32				
	2,6-Dimethylnaphthalene	19:54	00:00	0	15876		7010			ABB	
160					160.0000		160.0000				
	Noise	00:00	00:00	0	10		4				
	Acenaphthylene-d8	20:46	00:00	0	105867		36492			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	00:00	0	68022		31225			ABB	
166					166.0000		166.0000				
	Noise	00:00	00:00	0	15		6				
	Fluorene	22:52	00:00	0	19122		8651			ABB	M
168					168.0000		168.0000				
	Noise	00:00	00:00	0	13		5				
	2,6-Dimethylnaphthalene	19:47	00:00	0	64391		28361			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	14488		6746			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

PAH's by LRMS Extended List

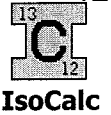
Workorder Y060426I2	Prep Batch	Lot No
Data File /20060426i/y060426i2.d	Prep Date	SDG No
Analysis ID 90303	Prep Exp Date	Date Received
Analysis Date 04/26/06 20:28	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution Factor 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	16249		7816			AVB	M
176					176.0000		176.0000				
	Noise	00:00	00:00	0	8		3				
	Fluorene d-10	22:46	00:00	0	17497		6342			ABB	M
178					178.0000		178.0000				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene	25:47	00:00	0	25579		8793			ABV	M
	Anthracene	25:54	00:00	0	21587		9074			AVV	M
188					188.0000		188.0000				
	Noise	00:00	00:00	0	10		4				
	Phenanthrene-d10	25:43	00:00	0	108860		44697			ABV	M
	Anthracene-d10	25:52	00:00	0	98156		45483			AVB	M
192					192.0000		192.0000				
	Noise	00:00	00:00	0	15		6				
	1-Methylphenanthrene	27:40	00:00	0	18081		7974			ABB	M
202					202.0000		202.0000				
	Noise	00:00	00:00	0	8		3				
	Fluoranthene	29:23	00:00	0	25644		10956			ABV	M
	Pyrene	30:04	00:00	0	26126		9955			ABV	
212					212.0000		212.0000				
	Noise	00:00	00:00	0	18		7				
	Fluoranthene-d10	29:20	00:00	0	103412		46803			ABV	
	Pyrene-d10	30:01	00:00	0	142659		55474			ABV	
228					228.0000		228.0000				
	Noise	00:00	00:00	0	13		5				
	Benzo(a)anthracene	33:39	00:00	0	18009		7533			ABV	M
	Chrysene	33:47	00:00	0	17547		8279			AVV	M
240					240.0000		240.0000				
	Noise	00:00	00:00	0	15		6				
	Benzo(a)Anthracene-d12	33:36	00:00	0	69209		31701			ABV	M
	Chrysene-d12	33:43	00:00	0	68368		31964			AVV	M
244					244.0000		244.0000				
	Noise	00:00	00:00	0	5		2				
	Terphenyl-d14	30:30	00:00	0	15189		7424			ABB	
252					252.0000		252.0000				
	Noise	00:00	00:00	0	45		18				
	Benzo(b)fluoranthene	36:38	00:00	0	17332		6830			ABV	M
	Benzo(k)fluoranthene	36:41	00:00	0	14010		5869			AVB	M
	Benzo(e)pyrene	37:26	00:00	0	15260		5757			AVV	M
	Benzo(a)pyrene	37:35	00:00	0	12578		4841			AVV	M
	Perylene	37:49	00:00	0	13584		5055			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



PAH's by LRMS Extended List

Workorder Y060426I2	Prep Batch	Lot No
Data File /20060426i/y060426i2.d	Prep Date	SDG No
Analysis ID 90303	Prep Exp Date	Date Received
Analysis Date 04/26/06 20:28	Matrix UNKNOWN	Date Sampled
Anal Exp Date	Initial Wt/Vol	Lims Test Code
Instrument H2A	Extract Vol	Method DXLPAH
Analyst JMN	Dilution Factor 1.00	Code YA1

View Small Peaks? False

View deleted peaks? False

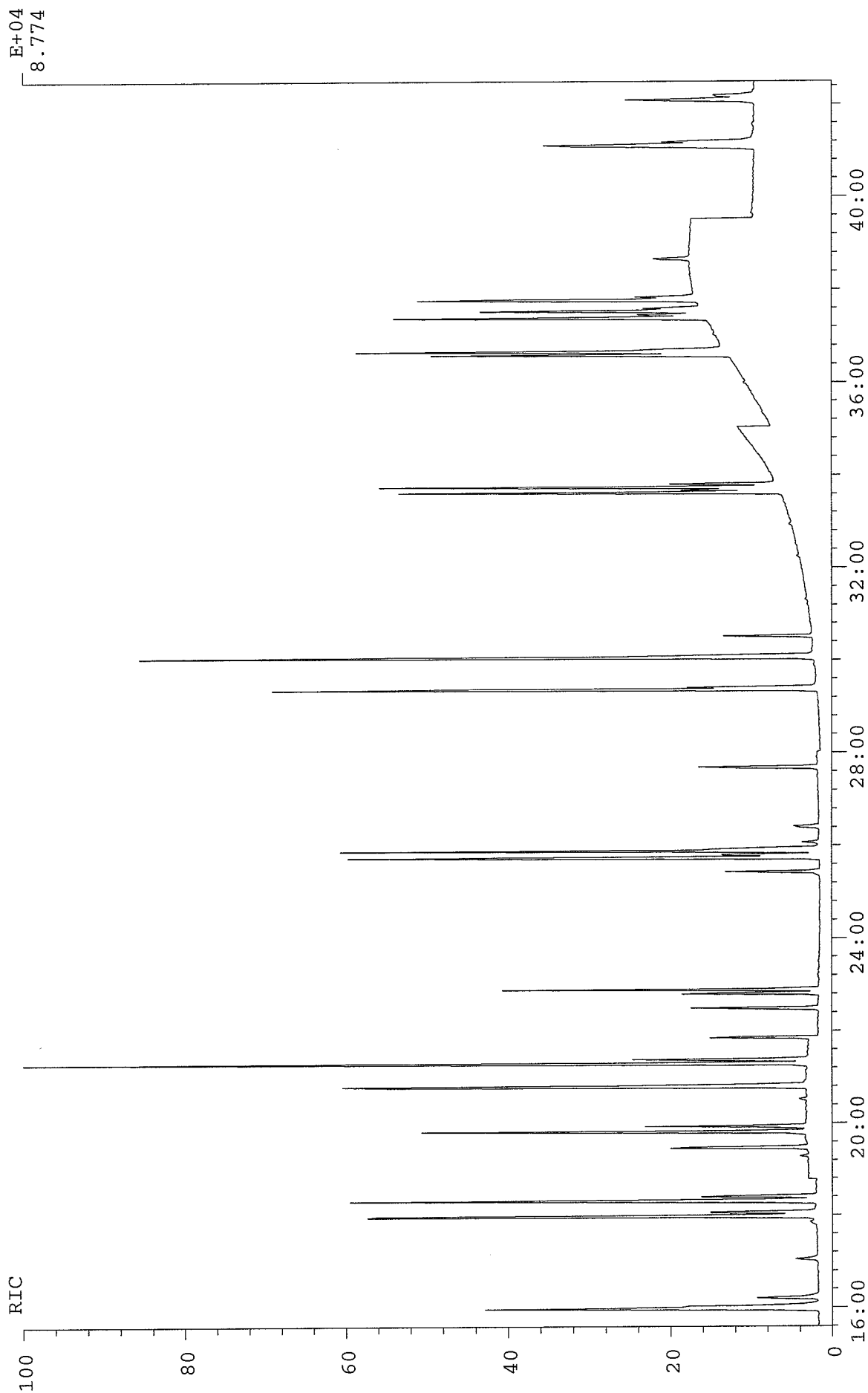
Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
264					264.0000		264.0000				
	Noise	00:00	00:00	0	30		12				
	Benzo(b)Fluoranthene-d1	36:34	00:00	0	59931		25724		ABV		M
	Benzo(k)Fluoranthene-d1	36:38	00:00	0	69916		25665		AVB		M
	Benzo(e)pyrene-d12	37:22	00:00	0	72013		26684		ABV		M
	Benzo(a)Pyrene-d12	37:31	00:00	0	52338		19366		AVV		M
	Perylene-d12	37:45	00:00	0	63541		23611		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	13		5				
	Indeno(1,2,3-cd)pyrene	41:10	00:00	0	12793		3263		ABV		
	Benzo(ghi)perylene	42:11	00:00	0	12293		3168		ABB		M
278					278.0000		278.0000				
	Noise	00:00	00:00	0	15		6				
	Dibenz(a,h)anthracene	41:10	00:00	0	10285		2985		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	53435		13187		ABV		
	Benzo(ghi)Perylene-d12	42:04	00:00	0	39105		10768		ABB		
292					292.0000		292.0000				
	Noise	00:00	00:00	0	15		6				
	Dibenz(ah)Anthracene-d1	41:03	00:00	0	27650		8076		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

CHRO: Y060426i2
Samp: WO=y060426i2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1 > 1384
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

Elapse: 28:29.0 610
Start : 20:28:00 1384
Study : ICAL
Inlet :
Masses: 0 > 308
Label : 0, 3.0

Unt/Calc: J 4/26/06
QC VMIC 4/27/06

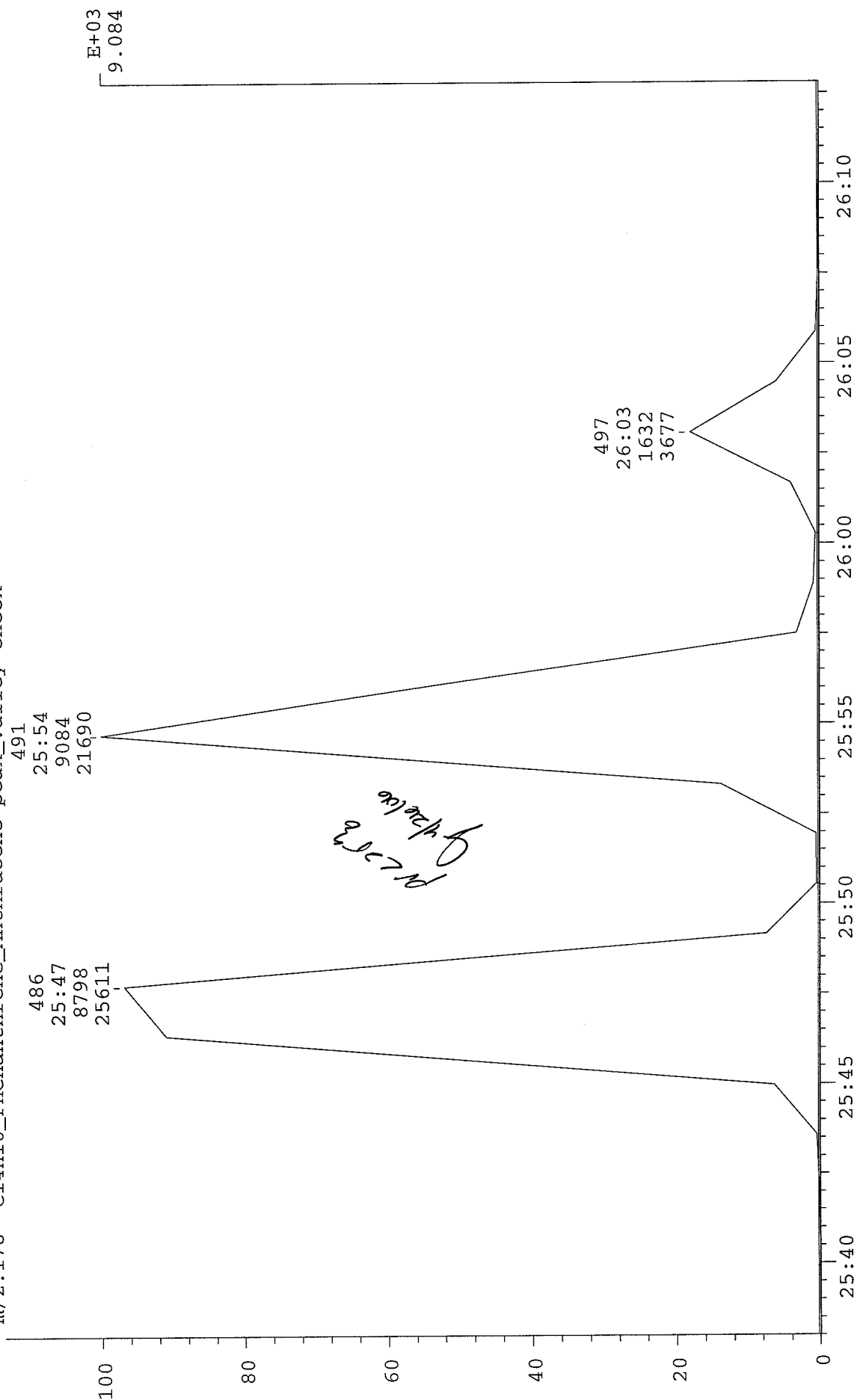


CHRO: y060426i2
Samp: WO=y060426i2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 479 > 504
Area: 5, 0.50, 15 Baseline : 100, 3
Disp: Height Area

26-APR-06 Elapse: 49:19 1735
Start : 20:28:00 1384

Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

m/z:178 "C14H10_Phenanthrene_Anthracene peak_valley check"



CHRO: y060426i2
Samp: WO=y060426i2 Meth=YA1 Dil=1
Comm: Inst=h2a/695821 Batch=20060426i Ccal=METHOD
Mode: EI +VE + LMR (LIN) UP LR NETCDF
Oper: JMN Client: STL Knoxville
Peak: 100.00 ppm Label wndw: 1132 > 1191
Area: 5, 0.50, 15 Baseline : 100, 1
Disp: Height Area

Elapse: 49:19 1735
Start : 20:28:00 1384

Study : ICAL
Inlet :
Masses: 0 > 308
Label : -2, 3.0

26-APR-06

m/z:252 "C20H12_Benzo(e_a)pyrene peak_valley check"

