

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011615\
 Data File : BE089414.D
 Acq On : 17 Jan 2015 5:27
 Operator : TP/IZ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 ClientSampleId :

Quant Time: Jan 17 06:08:28 2015
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE011615.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 16 22:56:59 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	18740	5.00	ng	0.00
3) Naphthalene-d8	8.36	136	69988	5.00	ng	0.00
7) Acenaphthene-d10	10.49	164	31469	5.00	ng	0.00
12) Phenanthrene-d10	12.50	188	48200	5.00	ng	0.00
16) Chrysene-d12	17.78	240	29889	5.00	ng	0.00
22) Perylene-d12	20.81	264	20798	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.50	82	38606	10.06	ng	0.00
8) 2-Fluorobiphenyl	9.70	172	68414	8.72	ng	0.00
18) Terphenyl-d14	15.58	244	40181	9.30	ng	0.00

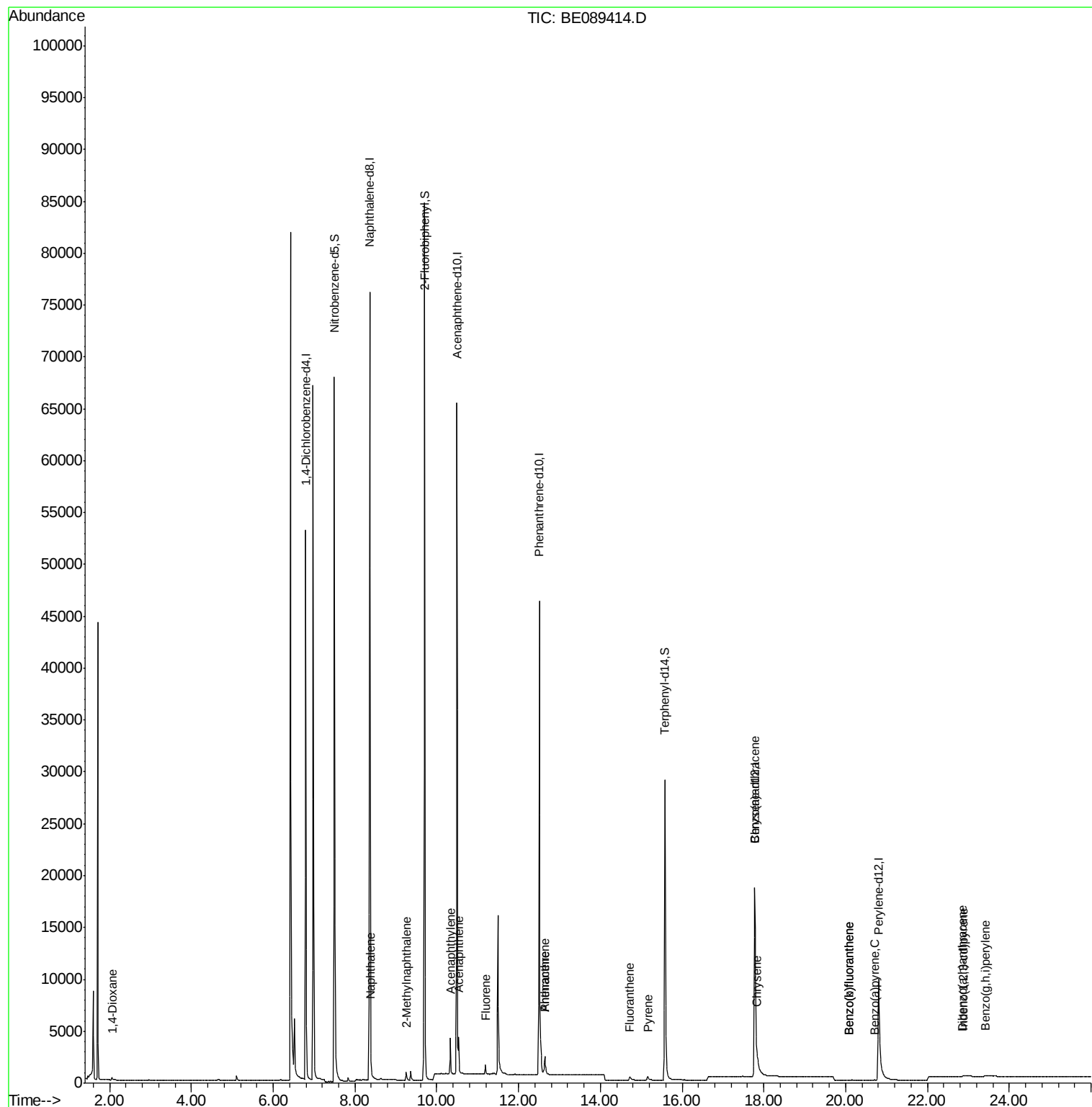
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.05	88	159	0.06	ng	# 77
5) Naphthalene	8.39	128	1173	0.07	ng	# 88
6) 2-Methylnaphthalene	9.25	142	604	0.06	ng	# 95
9) Acenaphthylene	10.33	152	3666	0.07	ng	98
10) Acenaphthene	10.54	154	705	0.08	ng	84
11) Fluorene	11.19	166	588	0.07	ng	100
13) Phenanthrene	12.64	178	2857	0.06	ng	98
14) Anthracene	12.64	178	2857	0.06	ng	100
15) Fluoranthene	14.72	202	557	0.06	ng	98
17) Pyrene	15.16	202	554	0.06	ng	97
19) Benzo(a)anthracene	17.77	228	1735	0.07	ng	# 75
20) Chrysene	17.84	228	2278	0.07	ng	# 65
21) Indeno(1,2,3-cd)pyrene	22.87	276	223	0.41	ng	# 75
23) Benzo(b)fluoranthene	20.09	252	86	0.36	ng	# 2
24) Benzo(k)fluoranthene	20.09	252	86	0.10	ng	# 2
25) Benzo(a)pyrene	20.71	252	84	0.34	ng	# 15
26) Dibenzo(a,h)anthracene	22.86	278	2	0.38	ng	# 1
27) Benzo(g,h,i)perylene	23.43	276	332	0.27	ng	# 16

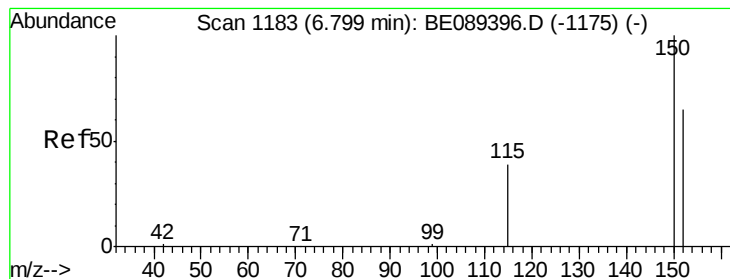
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.80 min Scan# 1183

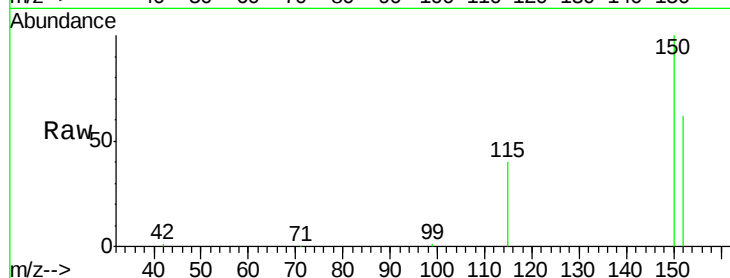
Delta R.T. -0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :



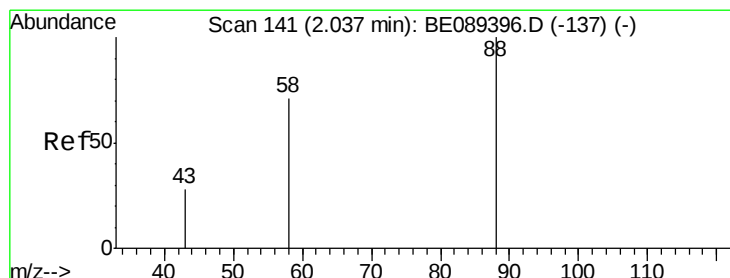
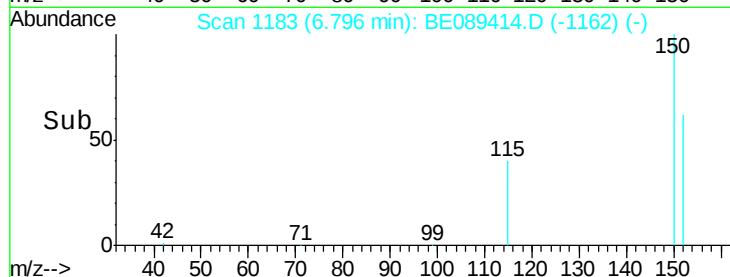
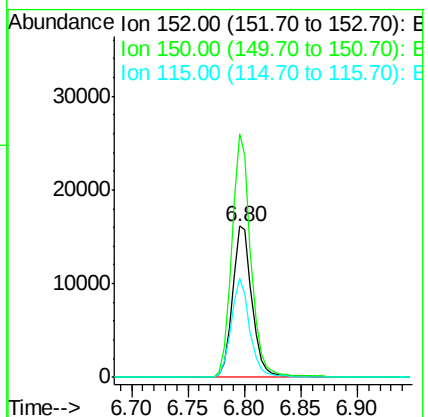
Tgt Ion: 152 Resp: 18740

Ion Ratio Lower Upper

152 100

150 160.8 123.6 185.4

115 65.0 48.1 72.1



#2

1,4-Dioxane

Concen: 0.06 ng

RT: 2.05 min Scan# 145

Delta R.T. 0.02 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

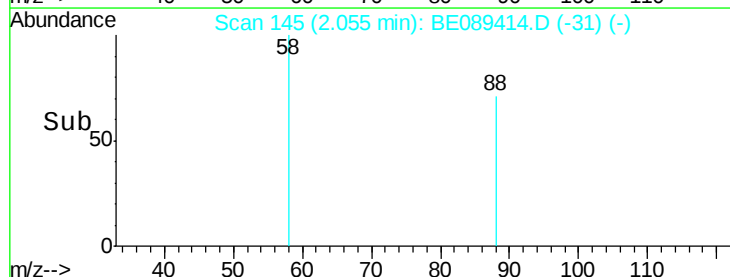
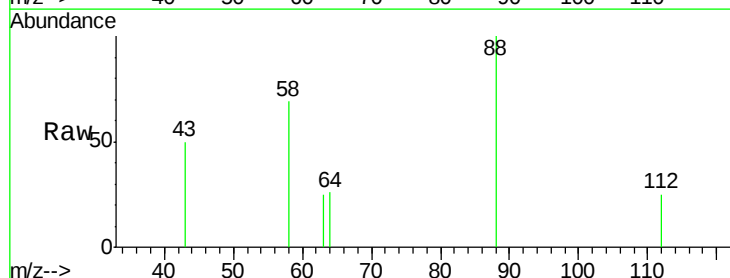
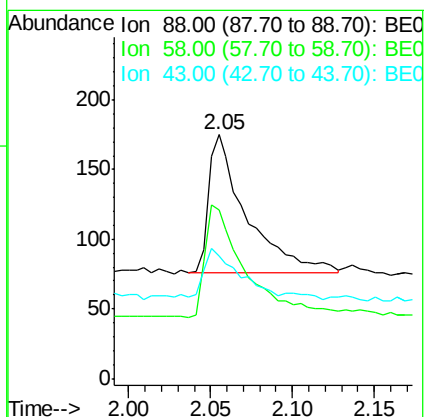
Tgt Ion: 88 Resp: 159

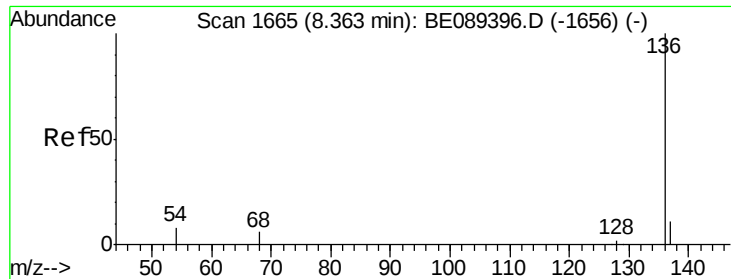
Ion Ratio Lower Upper

88 100

58 87.4 63.8 95.8

43 0.0 25.8 38.8#





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.36 min Scan# 1665

Delta R.T. -0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :

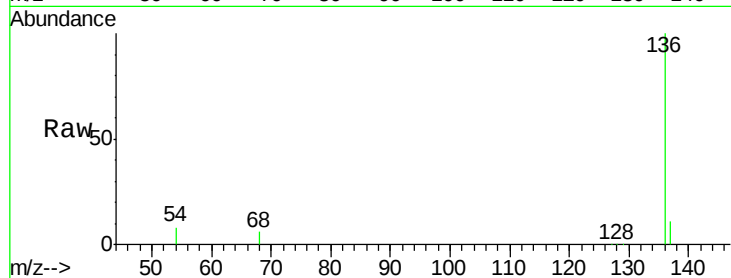
Tgt Ion: 136 Resp: 69988

Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

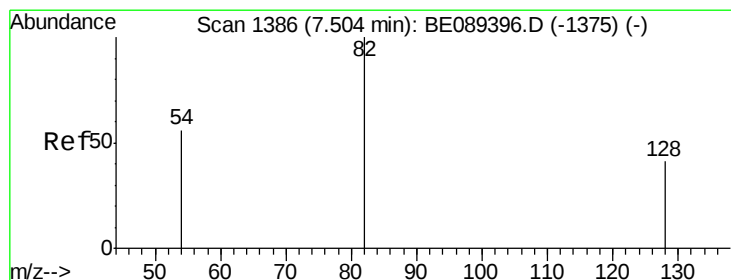
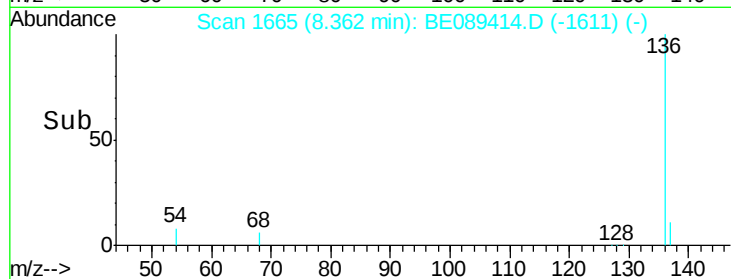
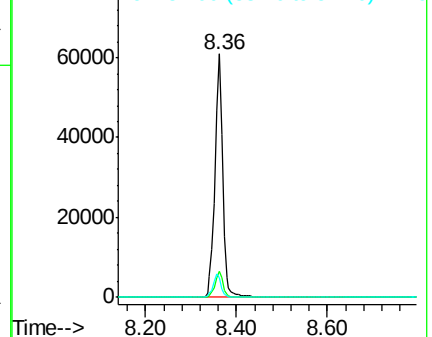
54 7.9 6.2 9.2



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 10.06 ng

RT: 7.50 min Scan# 1383

Delta R.T. -0.01 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

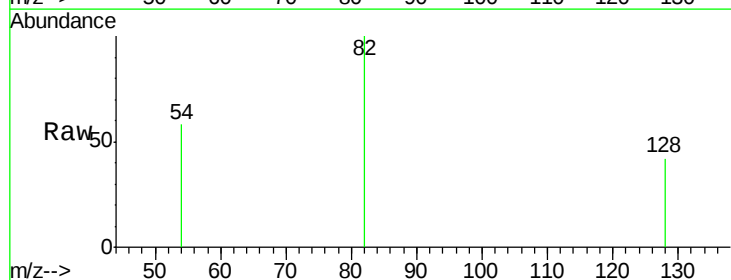
Tgt Ion: 82 Resp: 38606

Ion Ratio Lower Upper

82 100

128 41.8 33.4 50.2

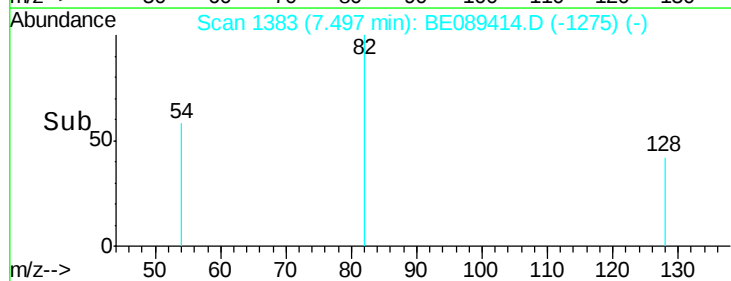
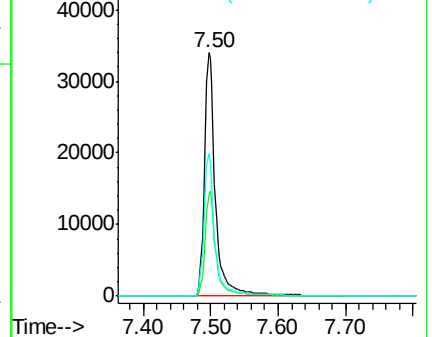
54 58.3 45.2 67.8

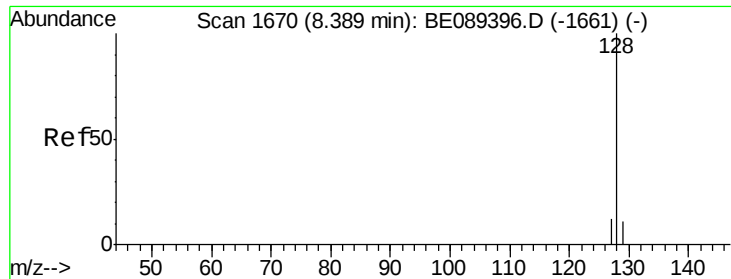


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.07 ng

RT: 8.39 min Scan# 1670

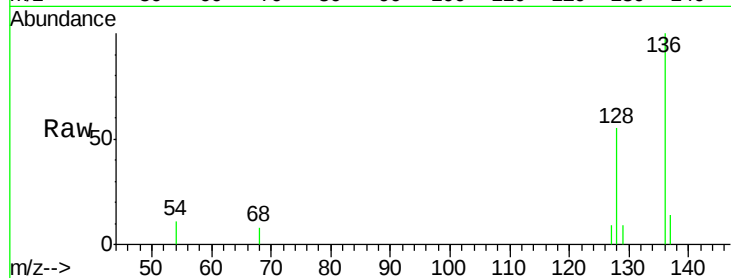
Delta R.T. -0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampleId :



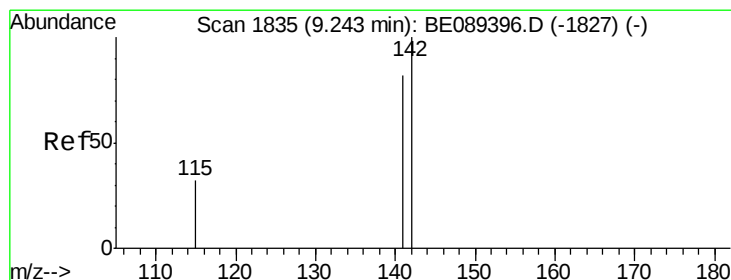
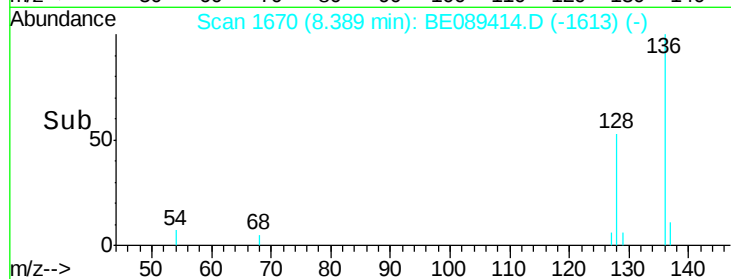
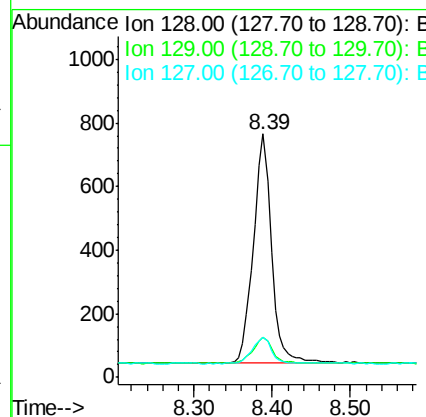
Tgt Ion:128 Resp: 1173

Ion Ratio Lower Upper

128 100

129 16.3 9.2 13.8#

127 16.7 9.7 14.5#



#6

2-Methylnaphthalene

Concen: 0.06 ng

RT: 9.25 min Scan# 1837

Delta R.T. 0.01 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

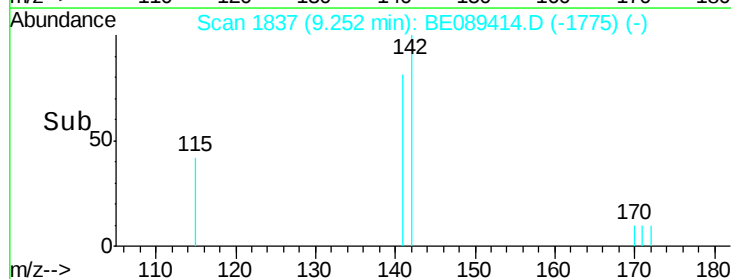
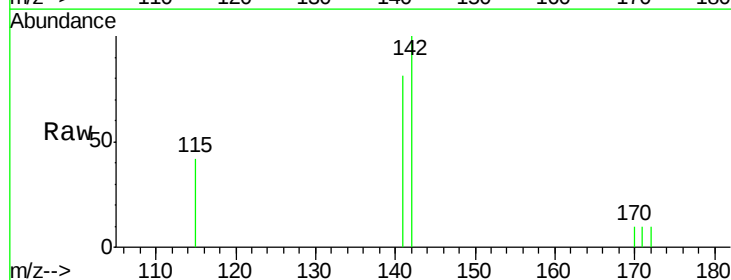
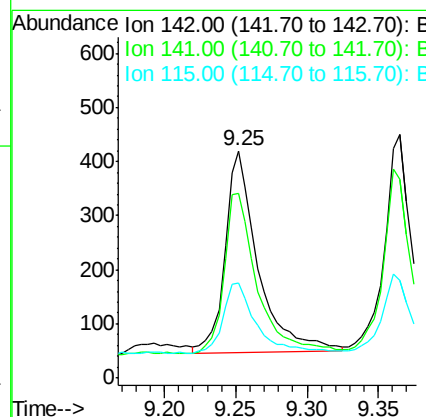
Tgt Ion:142 Resp: 604

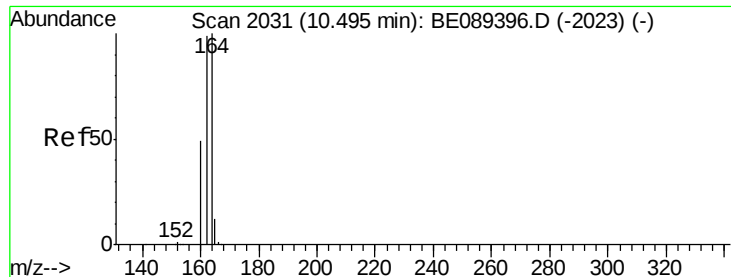
Ion Ratio Lower Upper

142 100

141 81.4 65.3 97.9

115 41.7 26.1 39.1#





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.49 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampleId :

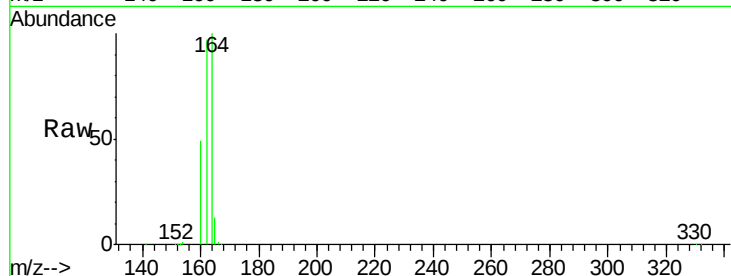
Tgt Ion:164 Resp: 31469

Ion Ratio Lower Upper

164 100

162 97.3 79.2 118.8

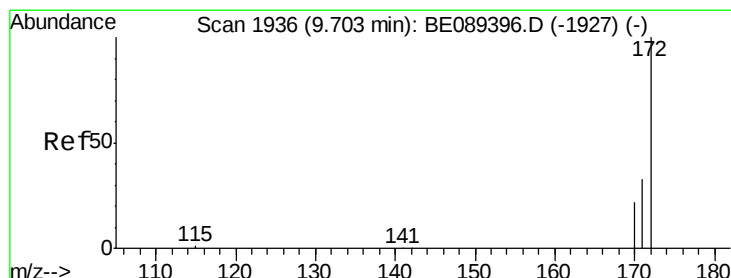
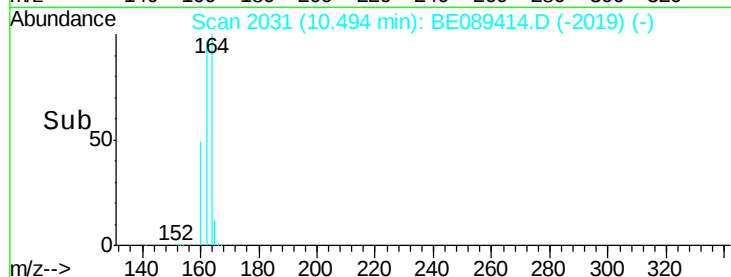
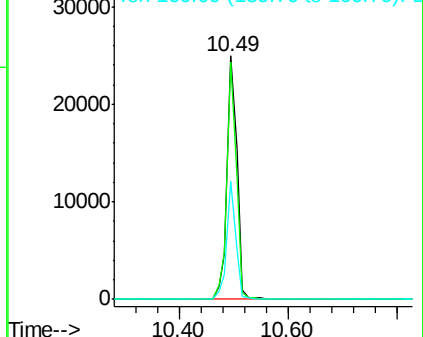
160 48.7 39.3 58.9



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 8.72 ng

RT: 9.70 min Scan# 1936

Delta R.T. -0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

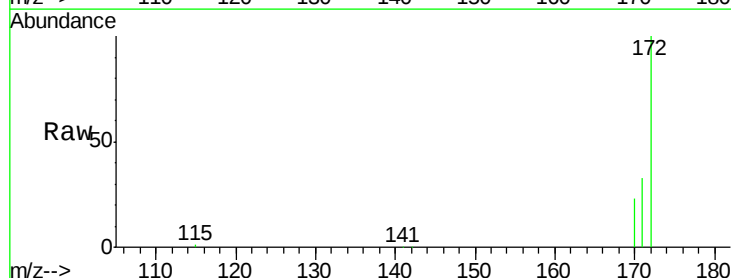
Tgt Ion:172 Resp: 68414

Ion Ratio Lower Upper

172 100

171 32.9 26.3 39.5

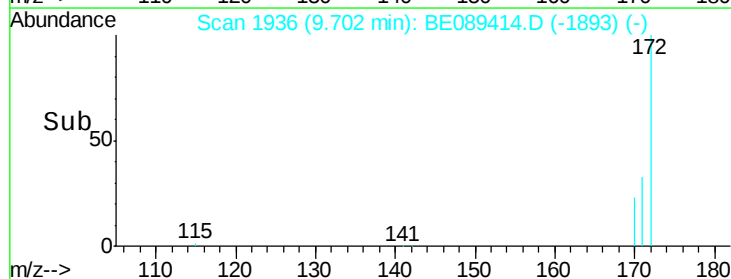
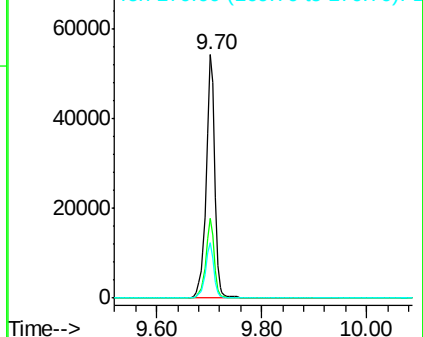
170 22.8 18.2 27.4

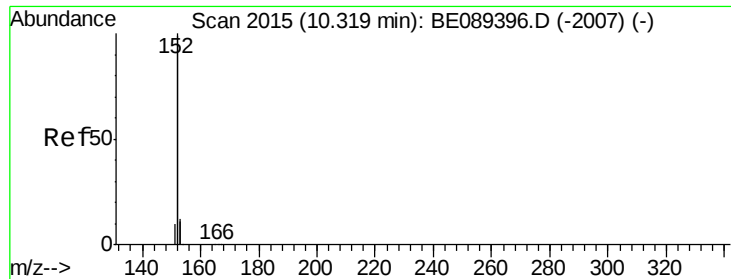


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.07 ng

RT: 10.33 min Scan# 2016

Delta R.T. 0.01 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :

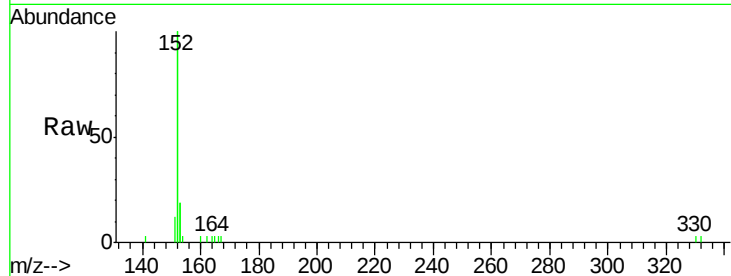
Tgt Ion:152 Resp: 3666

Ion Ratio Lower Upper

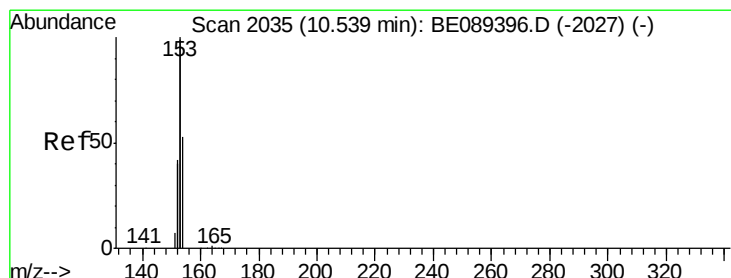
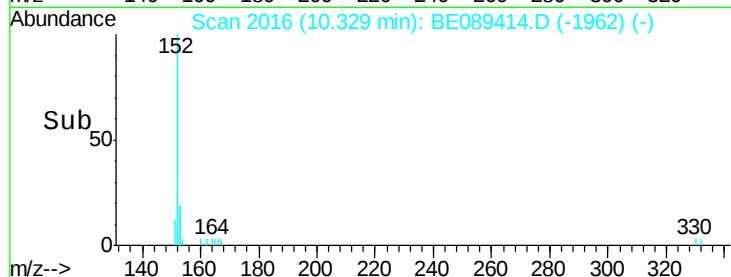
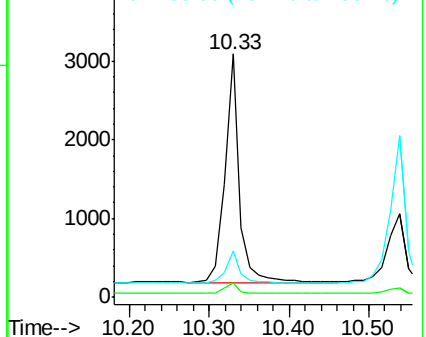
152 100

151 4.7 3.7 5.5

153 13.9 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.08 ng

RT: 10.54 min Scan# 2035

Delta R.T. -0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

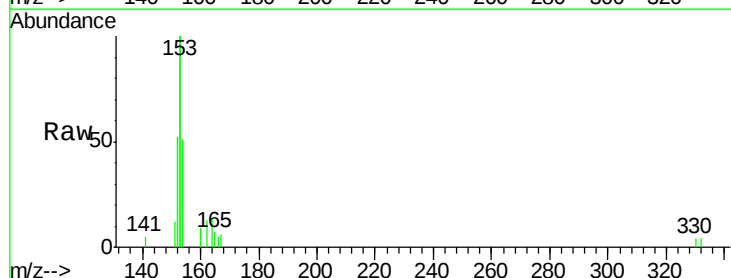
Tgt Ion:154 Resp: 705

Ion Ratio Lower Upper

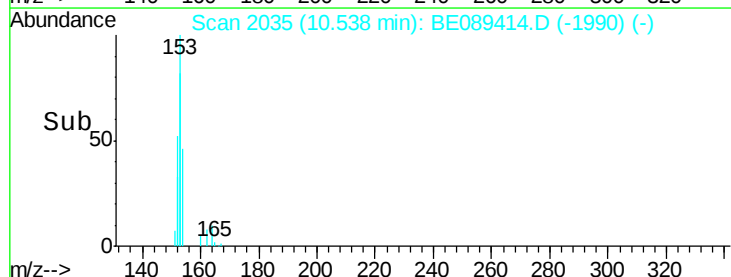
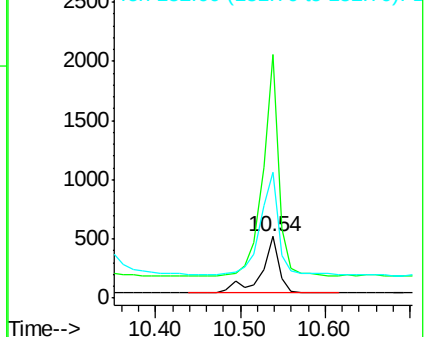
154 100

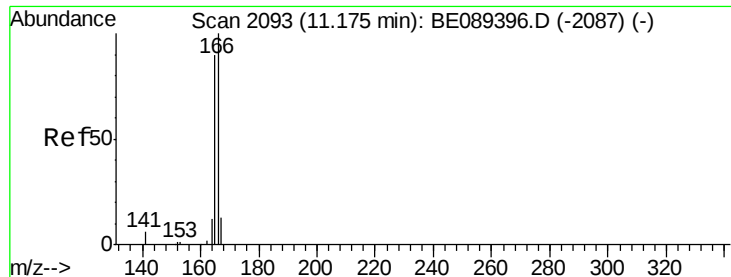
153 354.8 328.2 492.4

152 202.4 162.8 244.2



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.07 ng

RT: 11.19 min Scan# 2094

Delta R.T. 0.01 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :

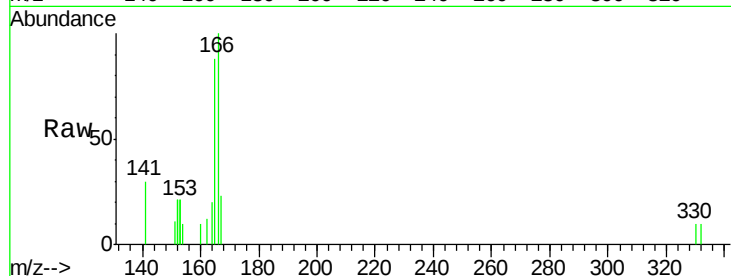
Tgt Ion:166 Resp: 588

Ion Ratio Lower Upper

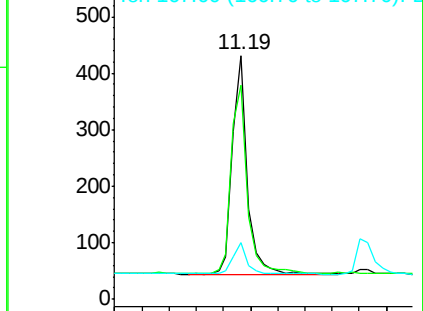
166 100

165 91.2 73.0 109.6

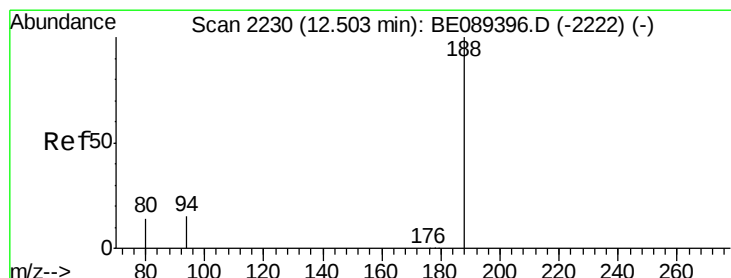
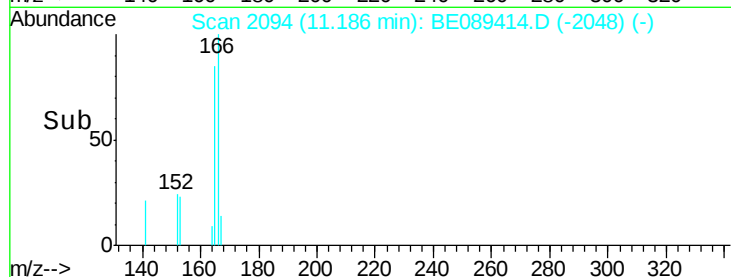
167 13.3 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



Time--> 11.00 11.20 11.40



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.50 min Scan# 2231

Delta R.T. 0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

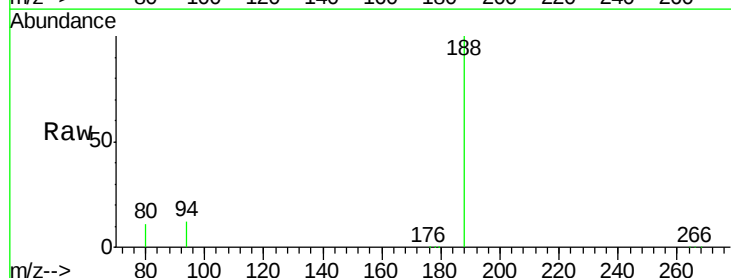
Tgt Ion:188 Resp: 48200

Ion Ratio Lower Upper

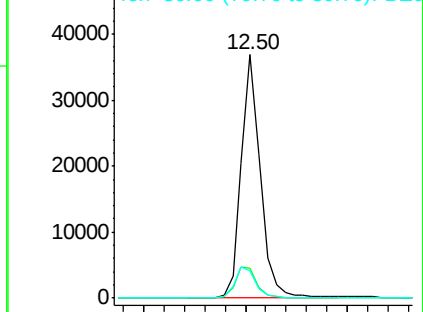
188 100

94 12.3 11.9 17.9

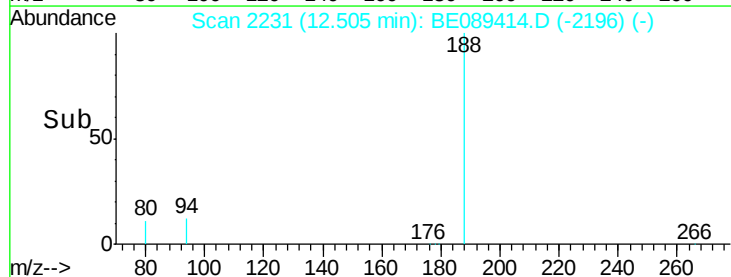
80 11.3 10.9 16.3

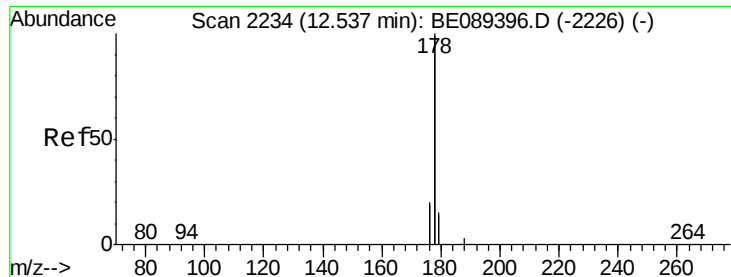


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0



Time--> 12.40 12.50 12.60





#13

Phenanthrene

Concen: 0.06 ng

RT: 12.64 min Scan# 2247

Delta R.T. 0.11 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :

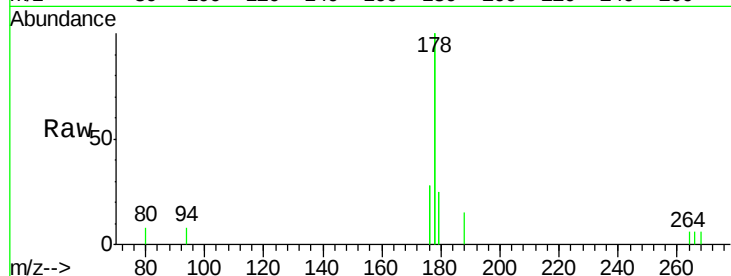
Tgt Ion:178 Resp: 2857

Ion Ratio Lower Upper

178 100

176 17.6 15.0 22.4

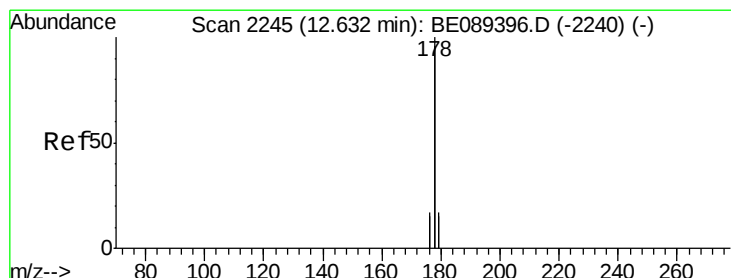
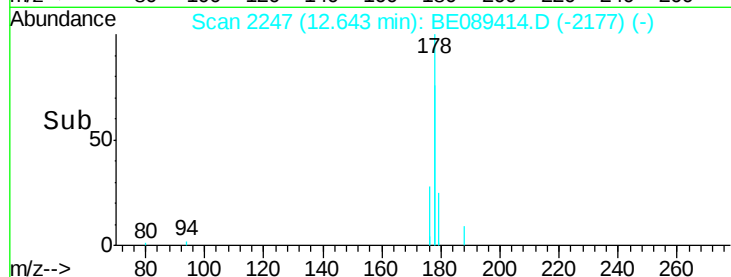
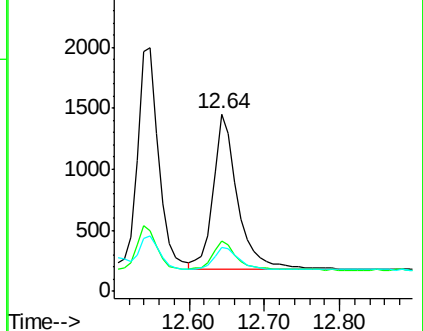
179 15.1 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 0.06 ng

RT: 12.64 min Scan# 2247

Delta R.T. 0.01 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

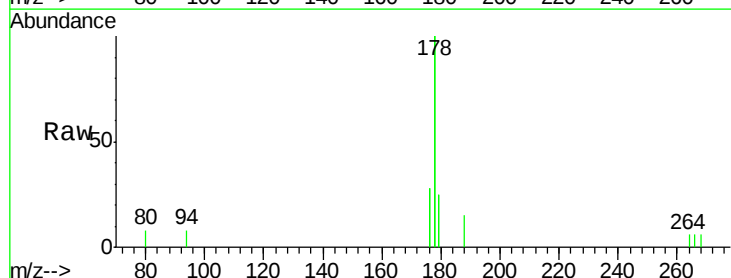
Tgt Ion:178 Resp: 2857

Ion Ratio Lower Upper

178 100

176 17.6 14.2 21.4

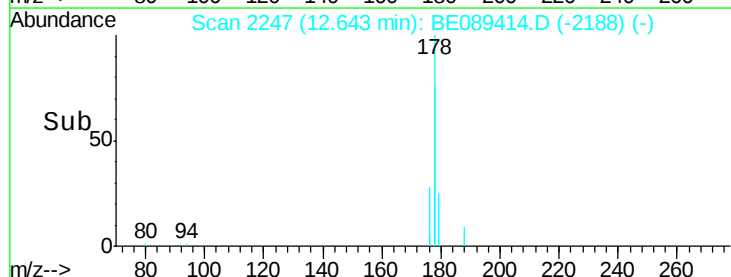
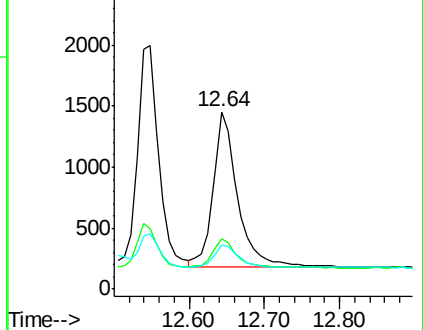
179 15.1 12.1 18.1

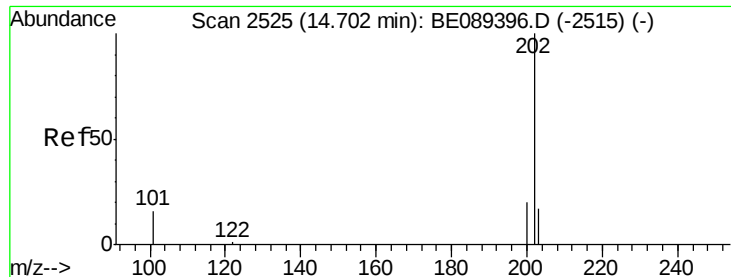


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

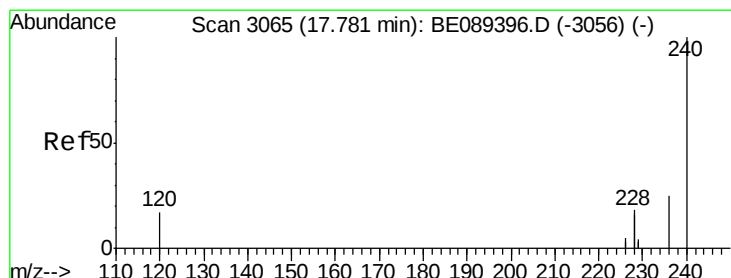
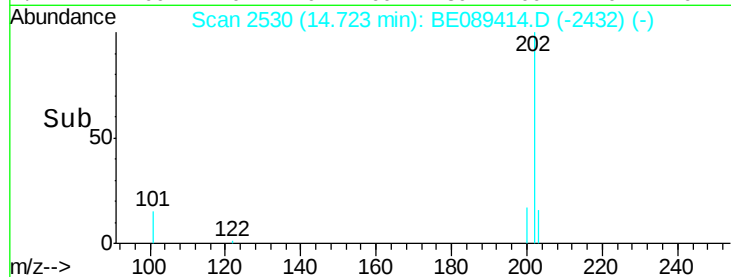
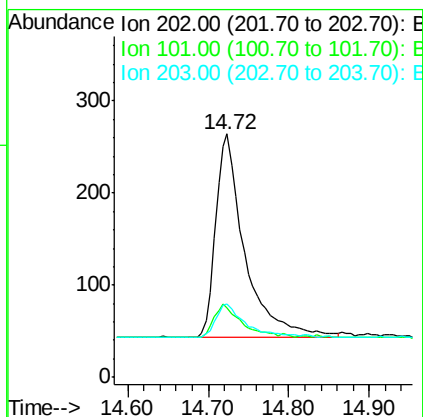
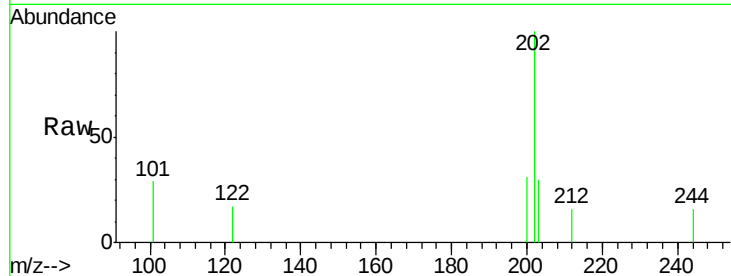




#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 14.72 min Scan# 2530
 Delta R.T. 0.02 min
 Lab File: BE089414.D
 Acq: 17 Jan 2015 5:27

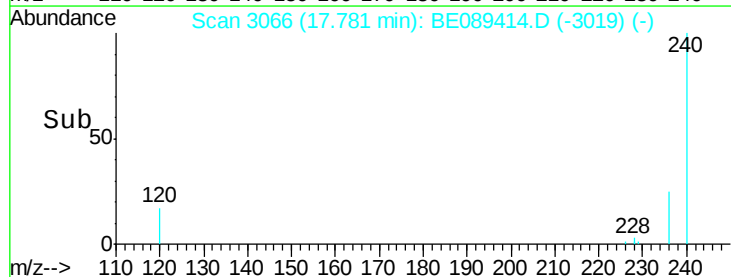
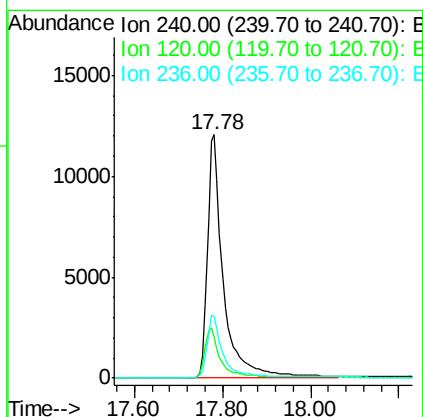
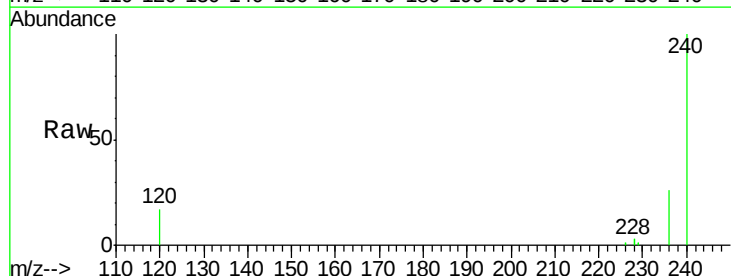
Instrument :
 ClientSampled :

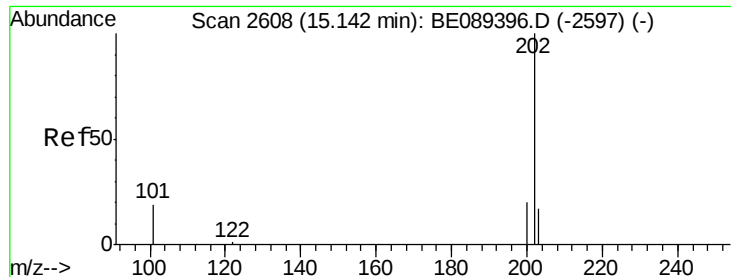
Tgt Ion:202 Resp: 557
 Ion Ratio Lower Upper
 202 100
 101 15.4 13.4 20.2
 203 16.9 13.7 20.5



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 17.78 min Scan# 3066
 Delta R.T. -0.00 min
 Lab File: BE089414.D
 Acq: 17 Jan 2015 5:27

Tgt Ion:240 Resp: 29889
 Ion Ratio Lower Upper
 240 100
 120 16.9 13.4 20.2
 236 25.5 20.2 30.4

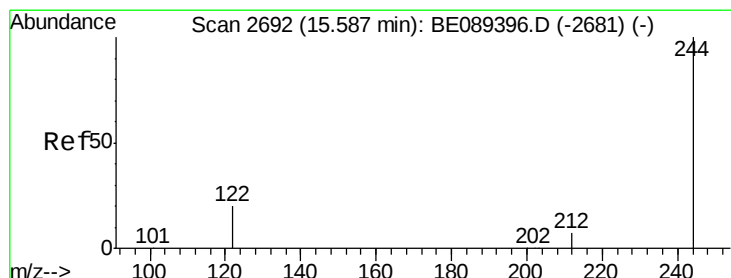
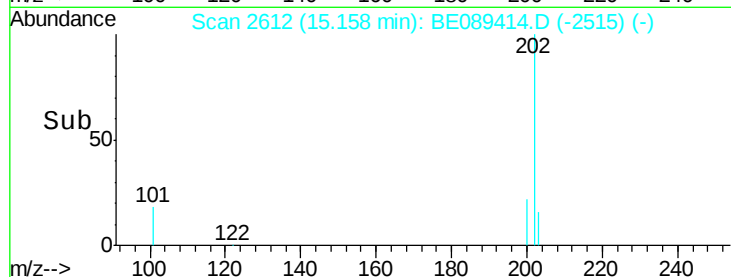
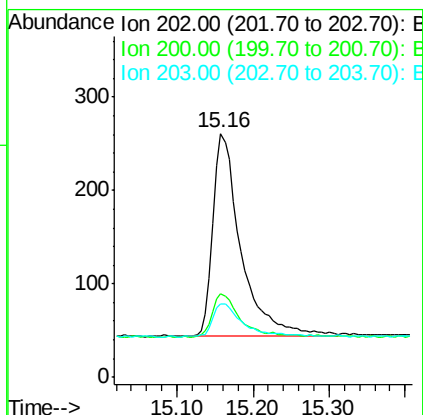
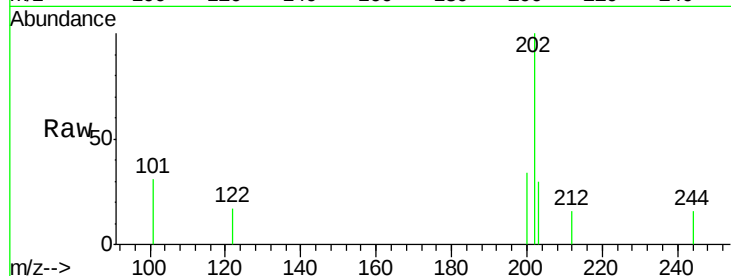




#17
 Pyrene
 Concen: 0.06 ng
 RT: 15.16 min Scan# 2612
 Delta R.T. 0.02 min
 Lab File: BE089414.D
 Acq: 17 Jan 2015 5:27

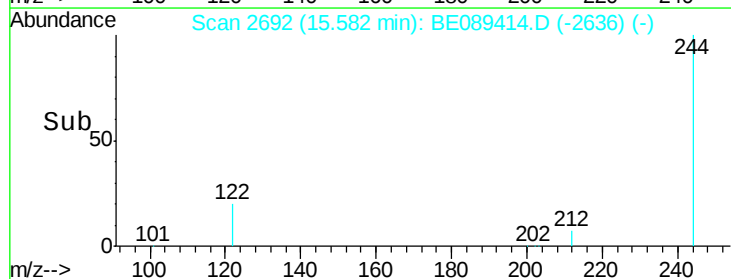
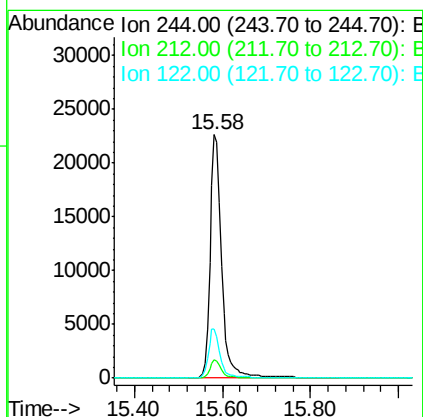
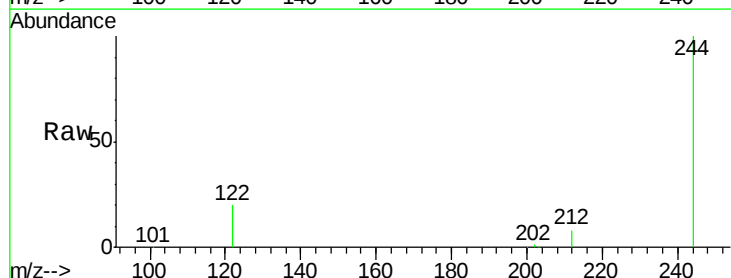
Instrument :
 ClientSampled :

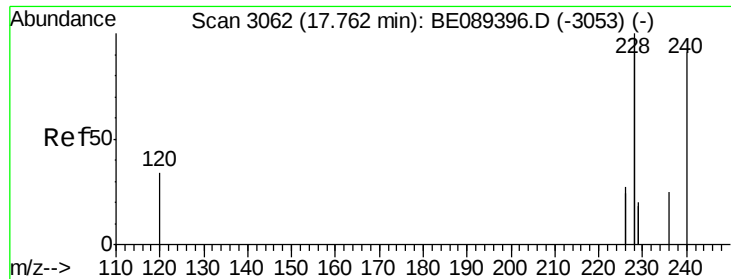
Tgt Ion:202 Resp: 554
 Ion Ratio Lower Upper
 202 100
 200 21.3 16.1 24.1
 203 18.6 13.7 20.5



#18
 Terphenyl-d14
 Concen: 9.30 ng
 RT: 15.58 min Scan# 2692
 Delta R.T. -0.01 min
 Lab File: BE089414.D
 Acq: 17 Jan 2015 5:27

Tgt Ion:244 Resp: 40181
 Ion Ratio Lower Upper
 244 100
 212 7.6 7.0 10.4
 122 20.3 17.4 26.2





#19

Benzo(a)anthracene

Concen: 0.07 ng

RT: 17.77 min Scan# 3064

Delta R.T. 0.01 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :

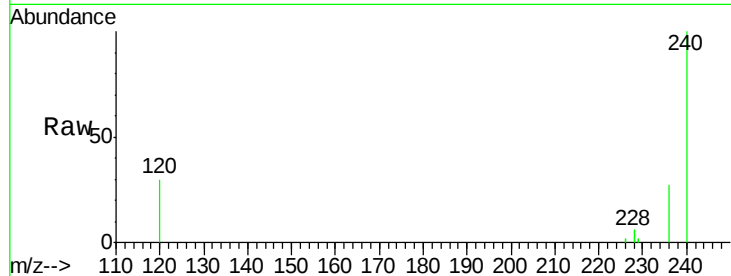
Tgt Ion:228 Resp: 1735

Ion Ratio Lower Upper

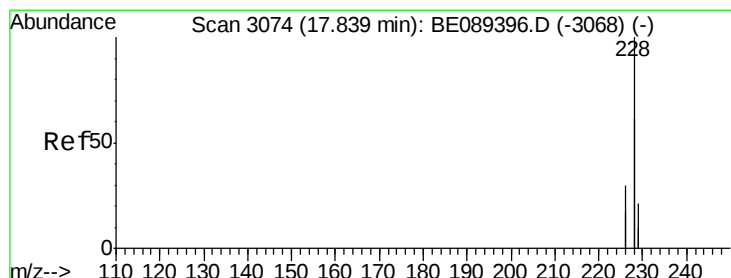
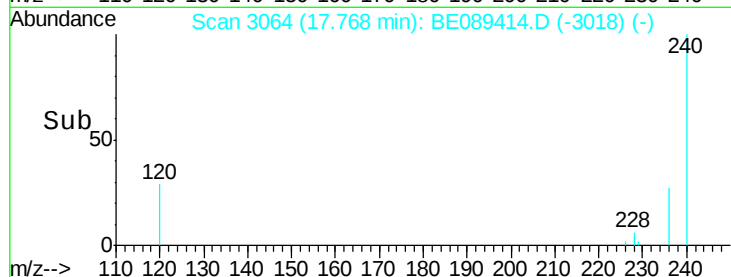
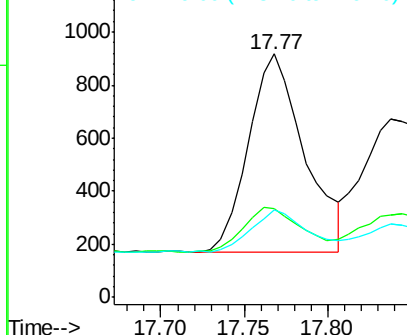
228 100

226 36.4 21.5 32.3#

229 35.9 16.3 24.5#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#20

Chrysene

Concen: 0.07 ng

RT: 17.84 min Scan# 3075

Delta R.T. -0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

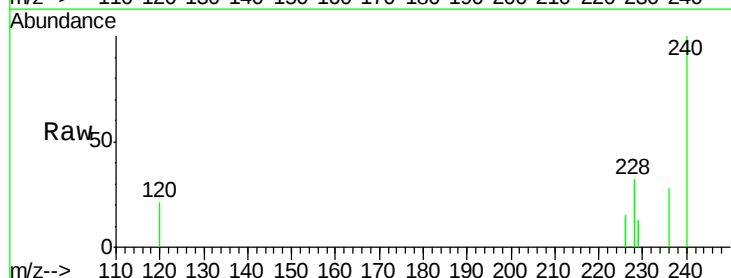
Tgt Ion:228 Resp: 2278

Ion Ratio Lower Upper

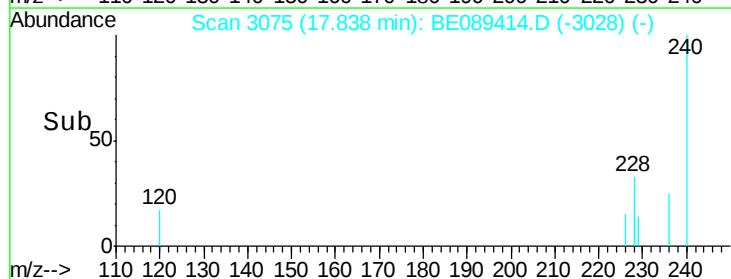
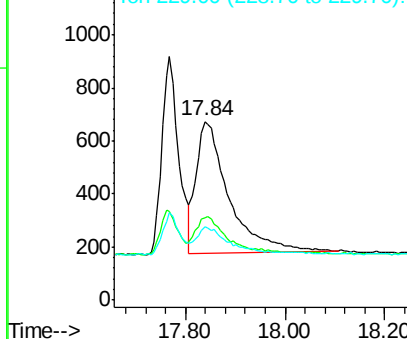
228 100

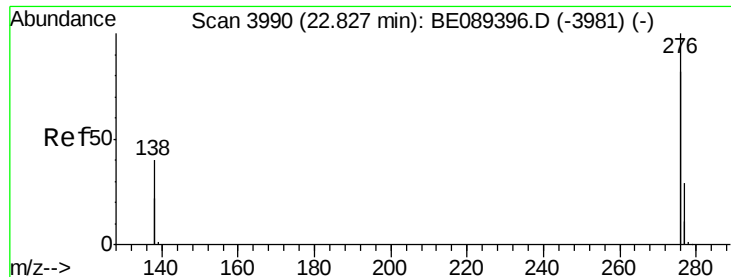
226 45.7 23.8 35.6#

229 40.7 16.5 24.7#



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E





#21

Indeno(1,2,3-cd)pyrene

Concen: 0.41 ng

RT: 22.87 min Scan# 3998

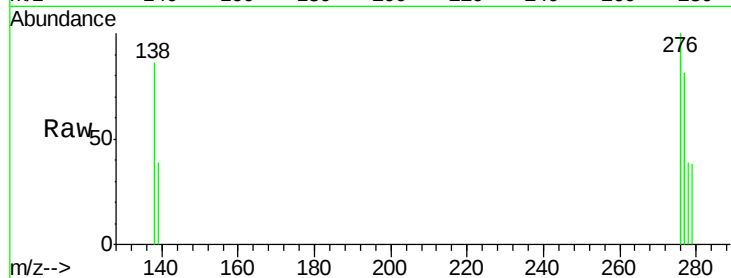
Delta R.T. 0.04 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :



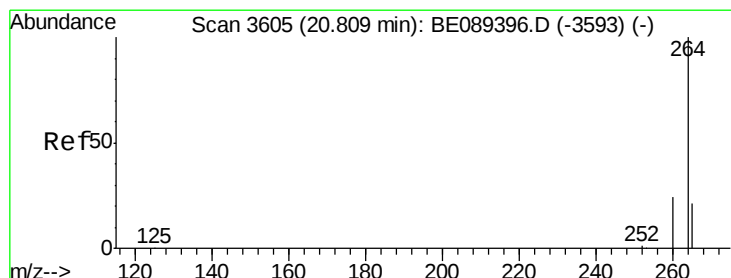
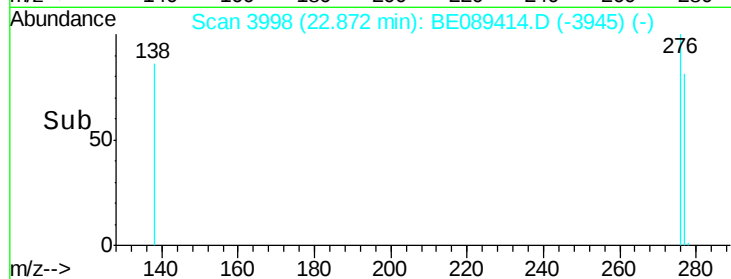
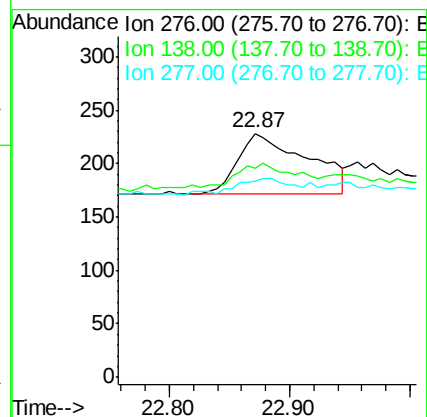
Tgt Ion: 276 Resp: 223

Ion Ratio Lower Upper

276 100

138 31.8 13.8 20.8#

277 17.5 9.8 14.6#



#22

Perylene-d12

Concen: 5.00 ng

RT: 20.81 min Scan# 3605

Delta R.T. -0.00 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

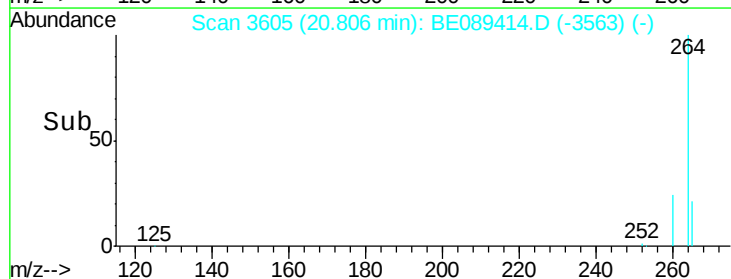
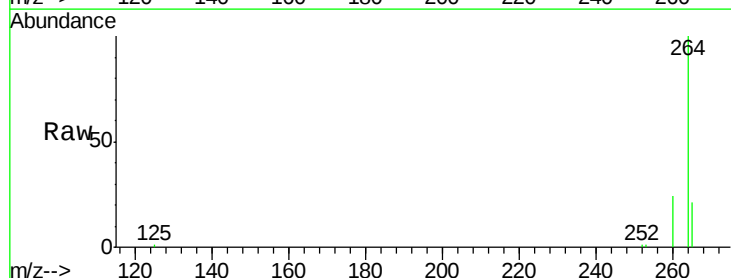
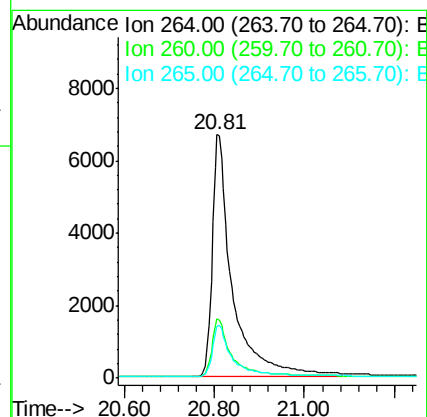
Tgt Ion: 264 Resp: 20798

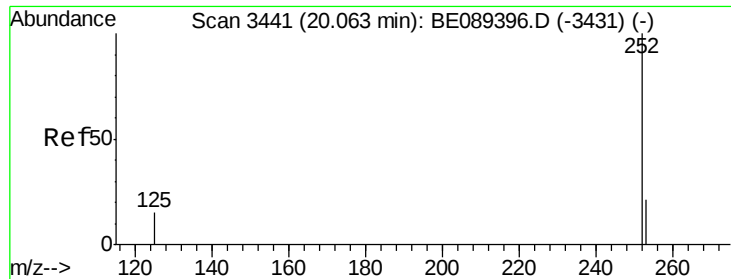
Ion Ratio Lower Upper

264 100

260 24.5 19.1 28.7

265 21.5 17.5 26.3





#23

Benzo(b)fluoranthene

Concen: 0.36 ng

RT: 20.09 min Scan# 3448

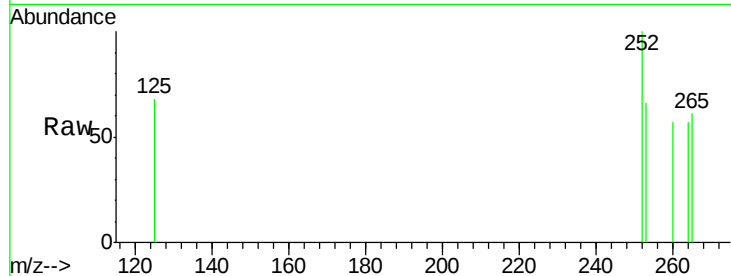
Delta R.T. 0.03 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :



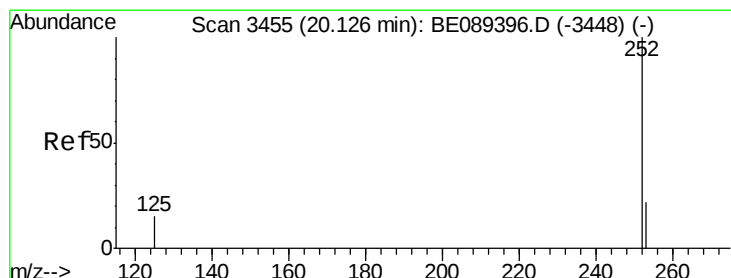
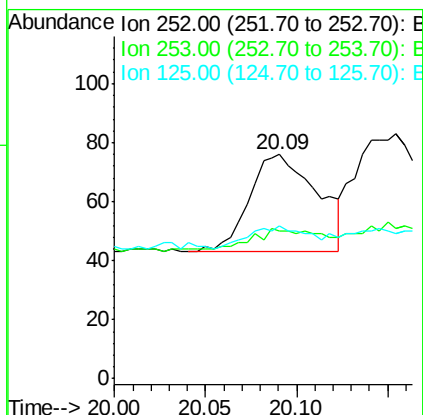
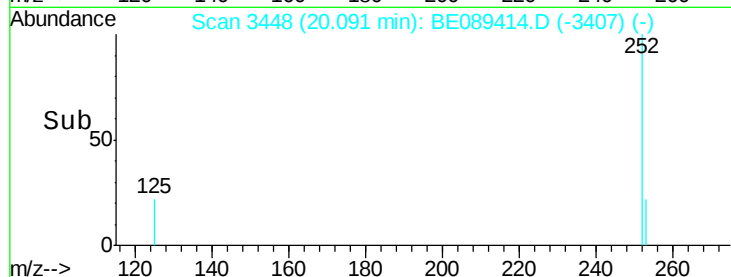
Tgt Ion:252 Resp: 86

Ion Ratio Lower Upper

252 100

253 65.8 19.1 28.7#

125 68.4 14.3 21.5#



#24

Benzo(k)fluoranthene

Concen: 0.10 ng

RT: 20.09 min Scan# 3448

Delta R.T. -0.04 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

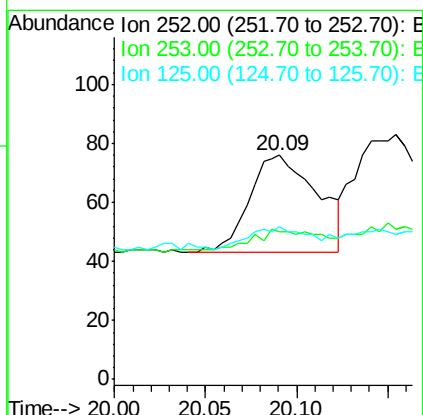
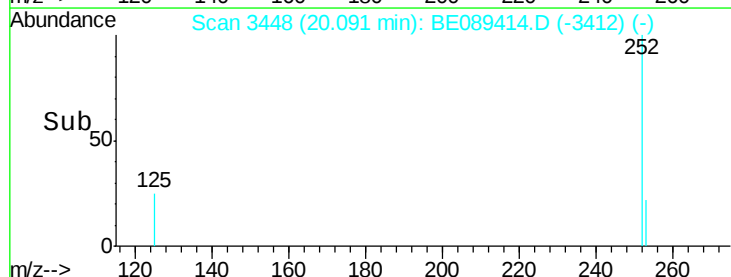
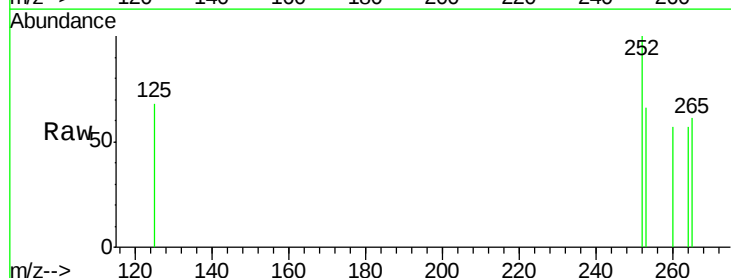
Tgt Ion:252 Resp: 86

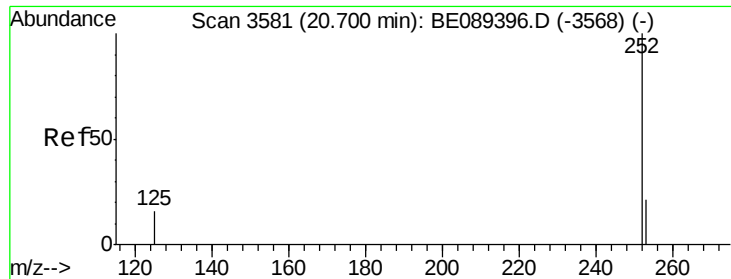
Ion Ratio Lower Upper

252 100

253 65.8 19.4 29.0#

125 68.4 14.0 21.0#





#25

Benzo(a)pyrene

Concen: 0.34 ng

RT: 20.71 min Scan# 3584

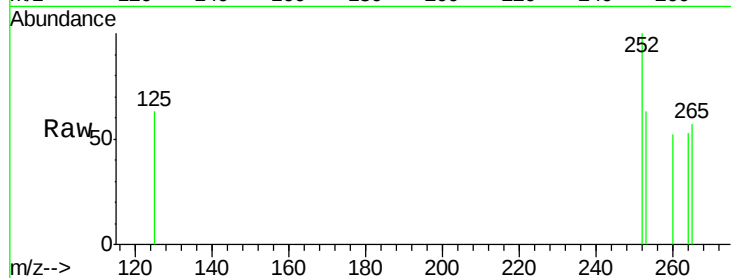
Delta R.T. 0.01 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampled :



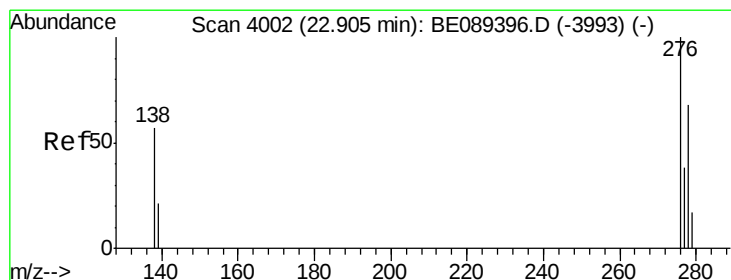
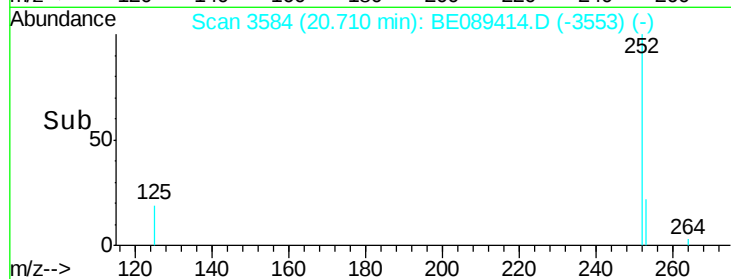
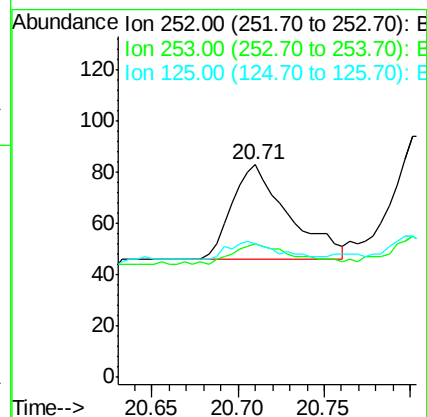
Tgt Ion: 252 Resp: 84

Ion Ratio Lower Upper

252 100

253 62.7 19.5 29.3#

125 62.7 15.4 23.2#



#26

Dibenzo(a,h)anthracene

Concen: 0.38 ng

RT: 22.86 min Scan# 3996

Delta R.T. -0.05 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

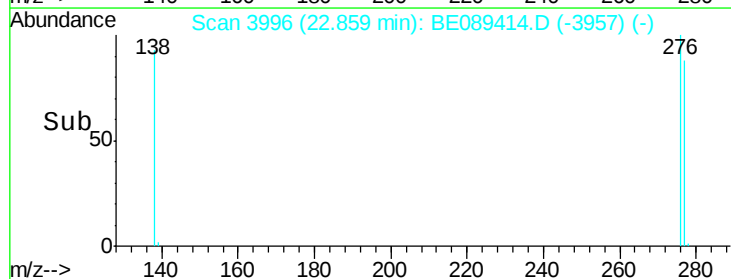
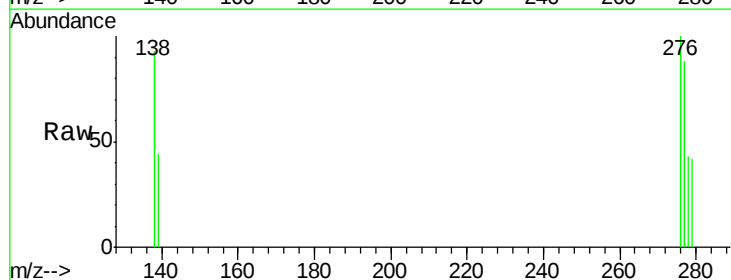
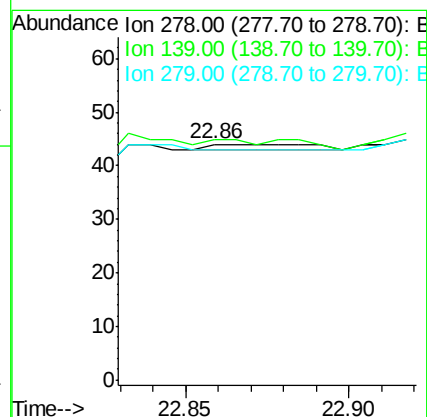
Tgt Ion: 278 Resp: 2

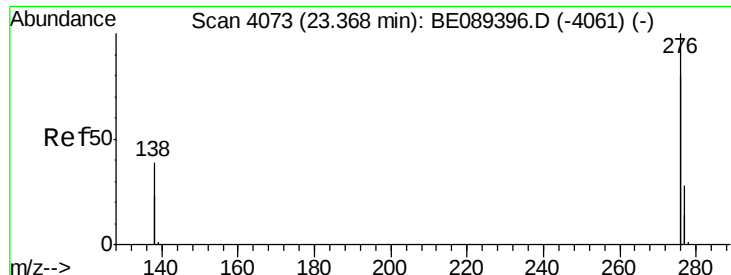
Ion Ratio Lower Upper

278 100

139 102.3 30.5 45.7#

279 97.7 25.8 38.8#





#27

Benzo(g,h,i)perylene

Concen: 0.27 ng

RT: 23.43 min Scan# 4083

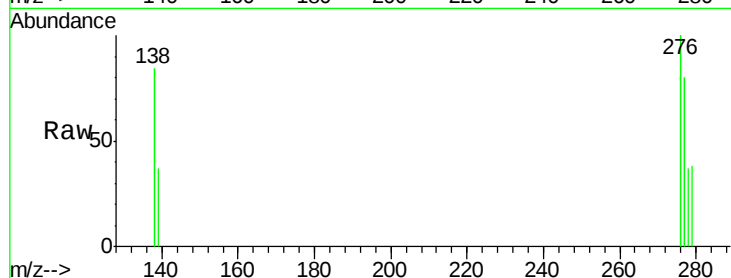
Delta R.T. 0.06 min

Lab File: BE089414.D

Acq: 17 Jan 2015 5:27

Instrument :

ClientSampleId :



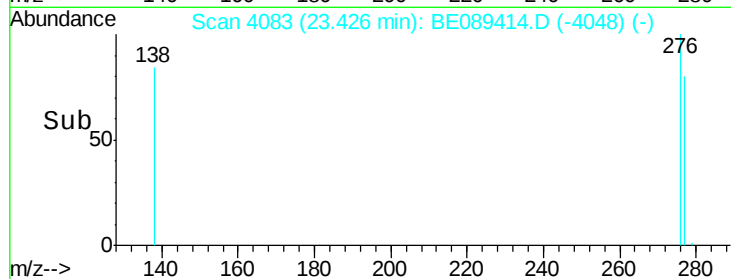
Tgt Ion: 276 Resp: 332

Ion Ratio Lower Upper

276 100

277 79.7 22.8 34.2#

138 83.9 30.8 46.2#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

23.43

250

200

150

100

50

0

Time-->