

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011615\
 Data File : BE089412.D
 Acq On : 17 Jan 2015 4:21
 Operator : TP/IZ
 Sample : MDL-01-S
 Misc : MDL-SOIL-0.1/0.2
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 ClientSampleId :

Quant Time: Jan 17 06:08:00 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	18796	5.00	ng	0.00
3) Naphthalene-d8	8.36	136	70251	5.00	ng	0.00
7) Acenaphthene-d10	10.49	164	32418	5.00	ng	0.00
12) Phenanthrene-d10	12.50	188	48987	5.00	ng	0.00
16) Chrysene-d12	17.78	240	30566	5.00	ng	0.00
22) Perylene-d12	20.81	264	23283	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.50	82	44004	11.43	ng	0.00
8) 2-Fluorobiphenyl	9.70	172	79912	9.89	ng	0.00
18) Terphenyl-d14	15.58	244	45281	10.25	ng	0.00

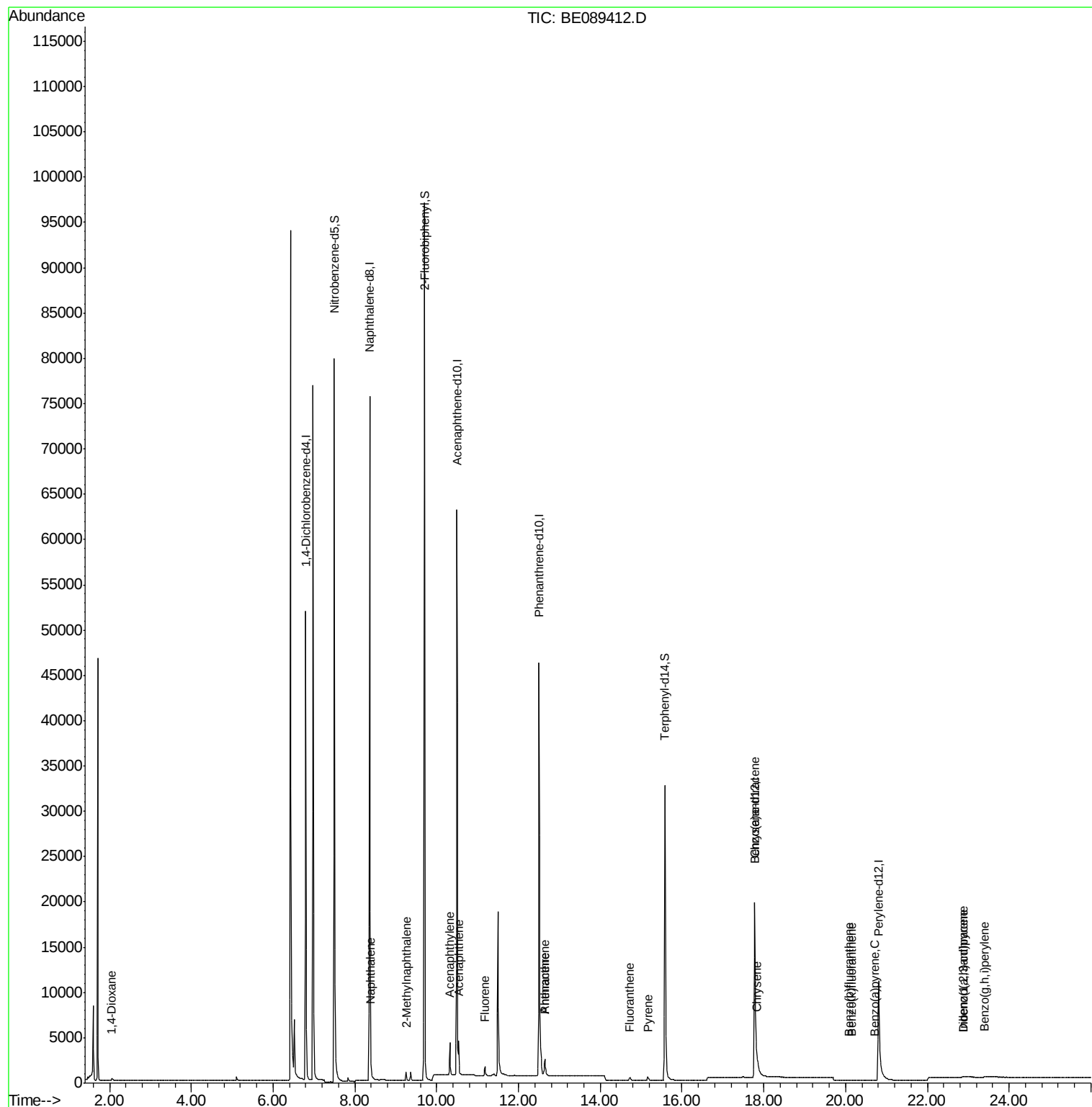
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.05	88	178	0.06	ng	# 77
5) Naphthalene	8.39	128	1214	0.07	ng	# 88
6) 2-Methylnaphthalene	9.25	142	680	0.07	ng	# 95
9) Acenaphthylene	10.33	152	3906	0.07	ng	99
10) Acenaphthene	10.54	154	746	0.08	ng	81
11) Fluorene	11.19	166	621	0.07	ng	97
13) Phenanthrene	12.64	178	3123	0.06	ng	99
14) Anthracene	12.64	178	3123	0.07	ng	100
15) Fluoranthene	14.72	202	589	0.06	ng	98
17) Pyrene	15.16	202	612	0.07	ng	99
19) Benzo(a)anthracene	17.77	228	1854	0.08	ng	# 75
20) Chrysene	17.84	228	2310	0.07	ng	# 67
21) Indeno(1,2,3-cd)pyrene	22.87	276	238	0.41	ng	# 89
23) Benzo(b)fluoranthene	20.09	252	89	0.36	ng	# 11
24) Benzo(k)fluoranthene	20.15	252	142	0.11	ng	# 18
25) Benzo(a)pyrene	20.70	252	100	0.34	ng	# 19
26) Dibenzo(a,h)anthracene	22.87	278	1	0.38	ng	# 1
27) Benzo(g,h,i)perylene	23.41	276	409	0.28	ng	# 16

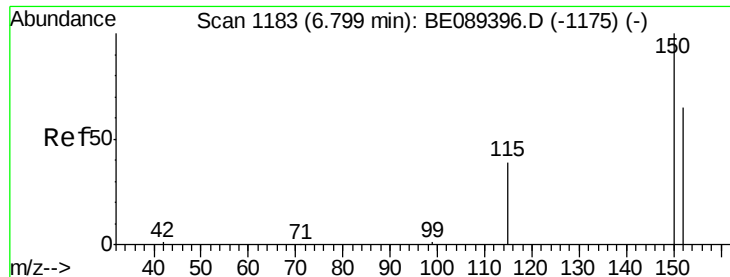
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.80 min Scan# 1183

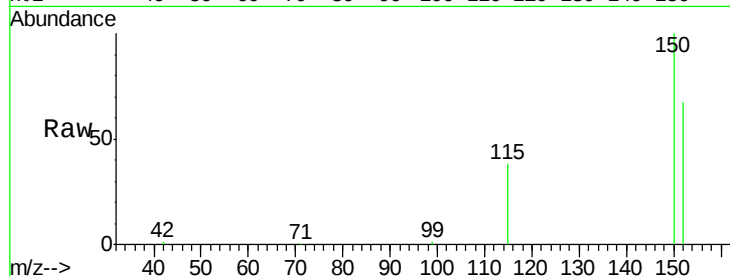
Delta R.T. 0.00 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampled :



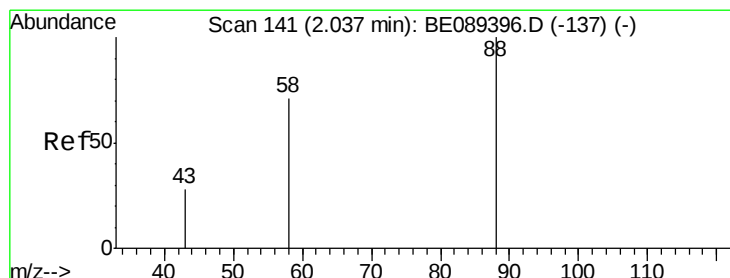
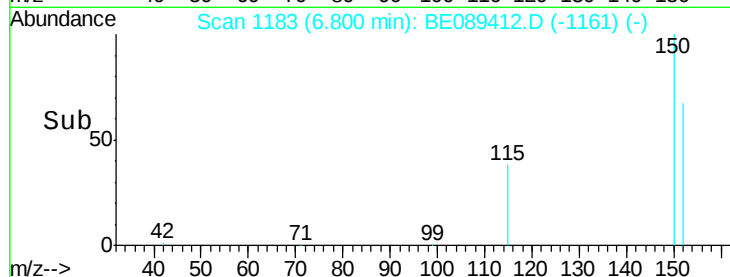
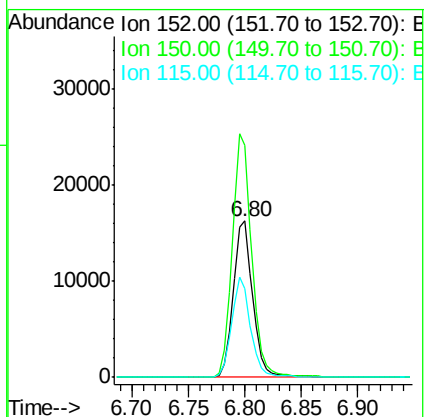
Tgt Ion: 152 Resp: 18796

Ion Ratio Lower Upper

152 100

150 148.8 123.6 185.4

115 56.6 48.1 72.1



#2

1,4-Dioxane

Concen: 0.06 ng

RT: 2.05 min Scan# 144

Delta R.T. 0.02 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

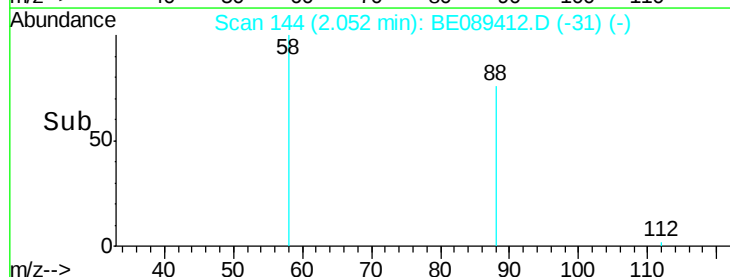
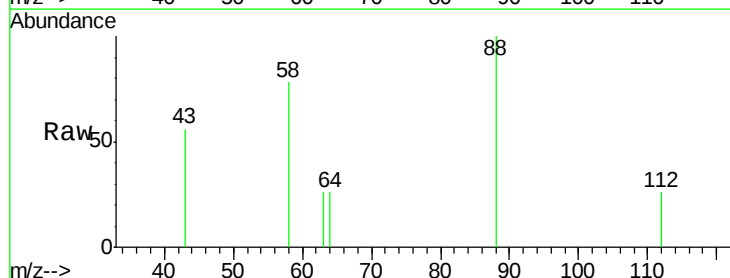
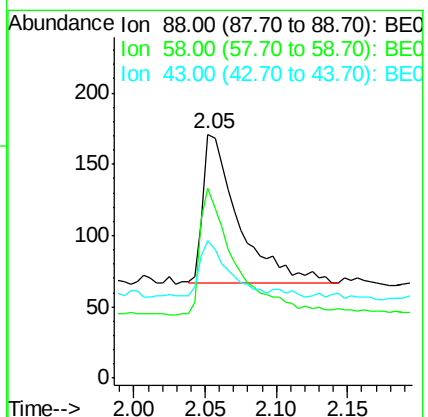
Tgt Ion: 88 Resp: 178

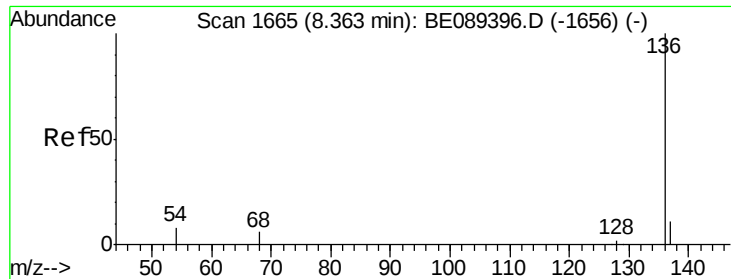
Ion Ratio Lower Upper

88 100

58 87.1 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: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampled :

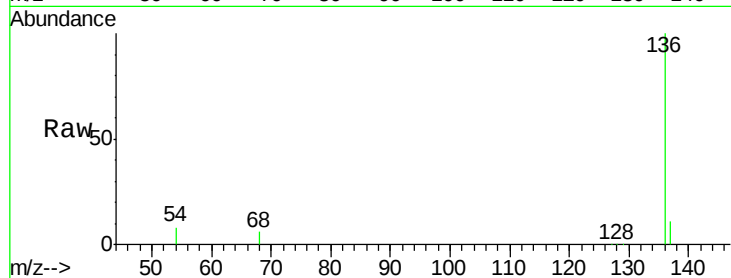
Tgt Ion: 136 Resp: 70251

Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

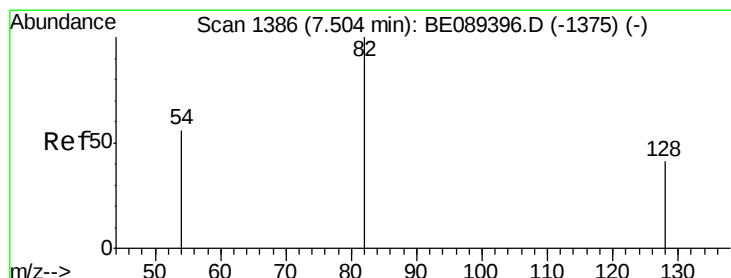
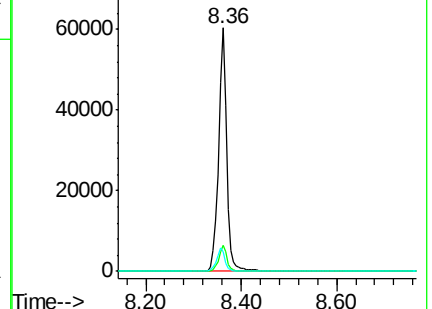
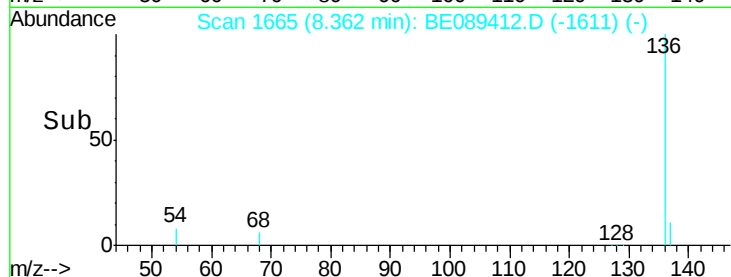
54 8.3 6.2 9.2



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: 11.43 ng

RT: 7.50 min Scan# 1383

Delta R.T. -0.01 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

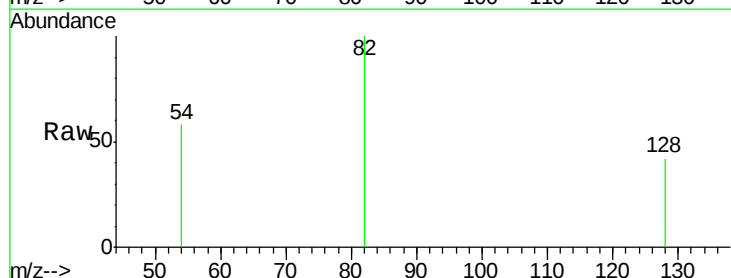
Tgt Ion: 82 Resp: 44004

Ion Ratio Lower Upper

82 100

128 42.4 33.4 50.2

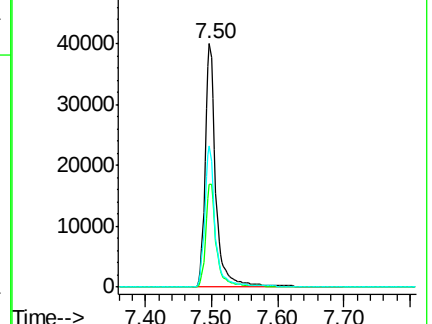
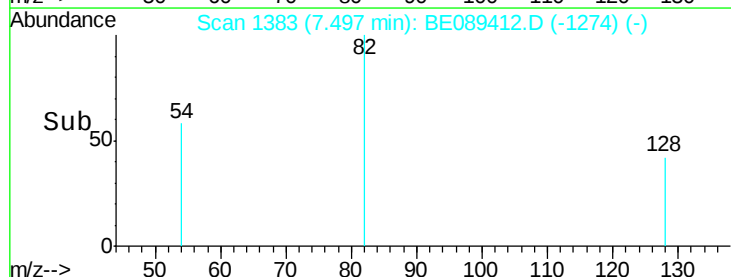
54 57.8 45.2 67.8

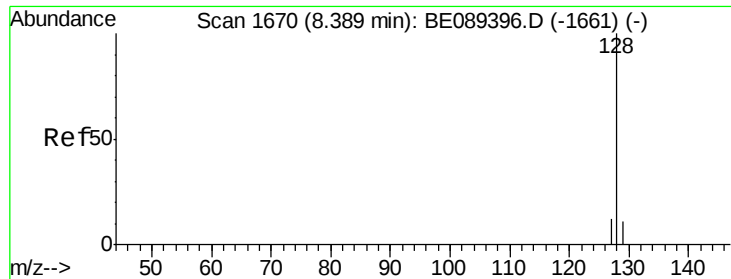


Abundance Ion 82.00 (81.70 to 82.70): BE0

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

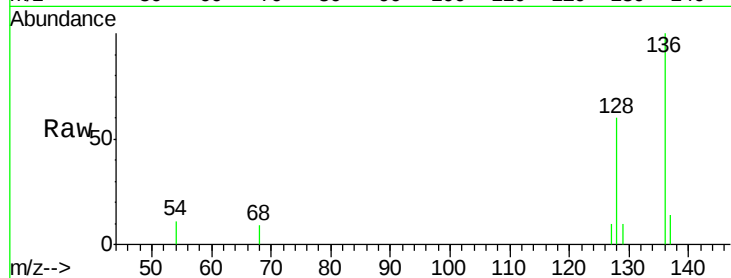
Delta R.T. -0.00 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampled :



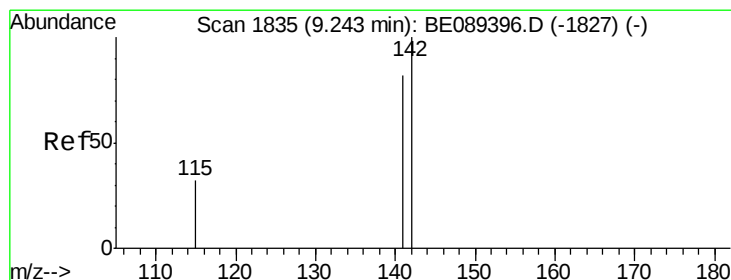
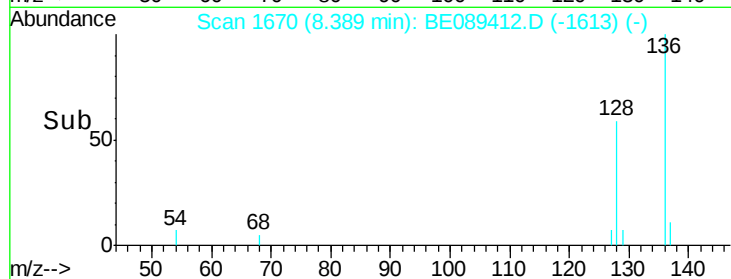
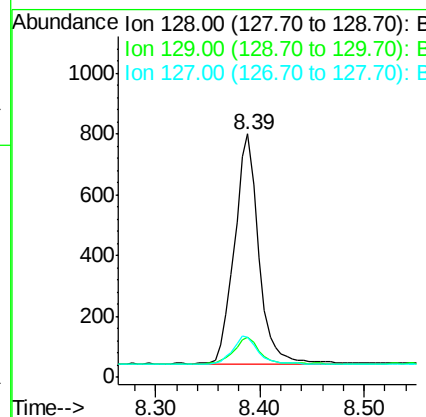
Tgt Ion:128 Resp: 1214

Ion Ratio Lower Upper

128 100

129 16.4 9.2 13.8#

127 16.6 9.7 14.5#



#6

2-Methylnaphthalene

Concen: 0.07 ng

RT: 9.25 min Scan# 1837

Delta R.T. 0.01 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

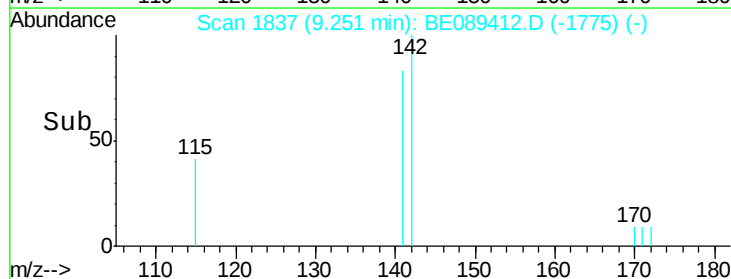
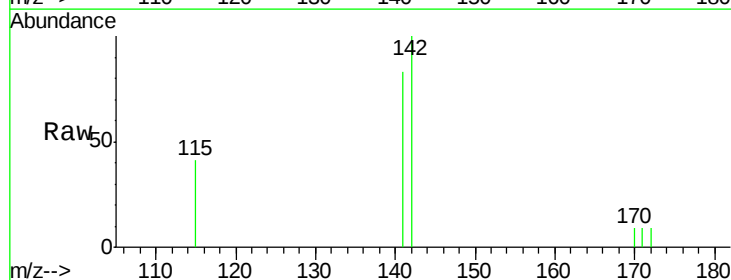
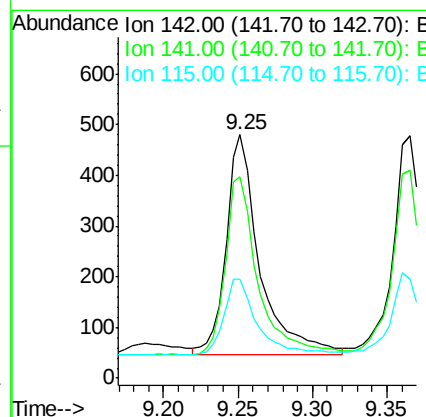
Tgt Ion:142 Resp: 680

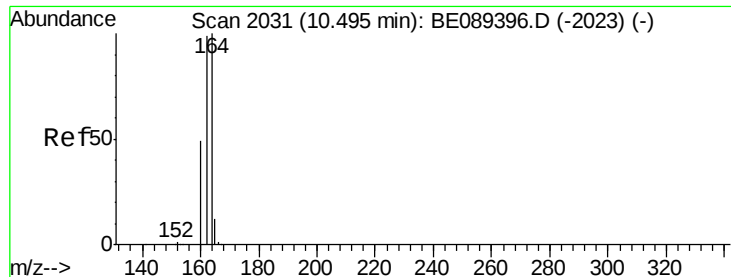
Ion Ratio Lower Upper

142 100

141 82.5 65.3 97.9

115 40.6 26.1 39.1#





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.49 min Scan# 2031

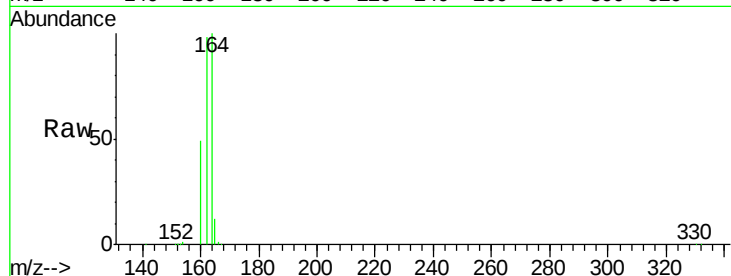
Delta R.T. -0.00 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampled :



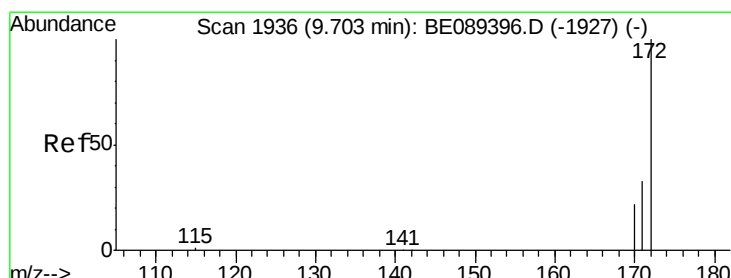
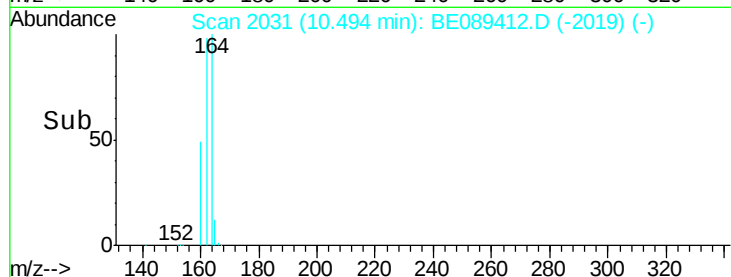
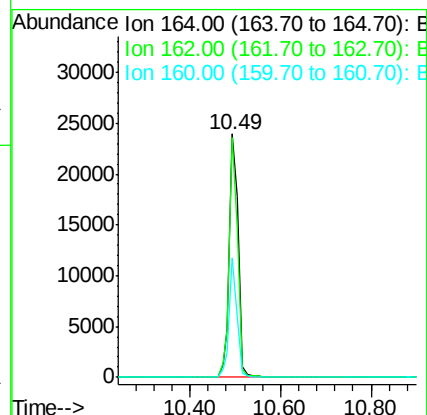
Tgt Ion:164 Resp: 32418

Ion Ratio Lower Upper

164 100

162 98.3 79.2 118.8

160 49.0 39.3 58.9



#8

2-Fluorobiphenyl

Concen: 9.89 ng

RT: 9.70 min Scan# 1936

Delta R.T. -0.00 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

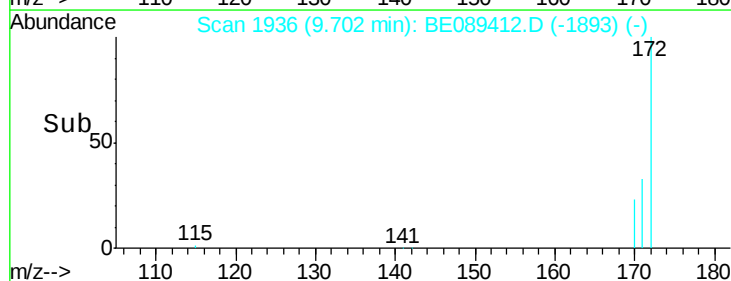
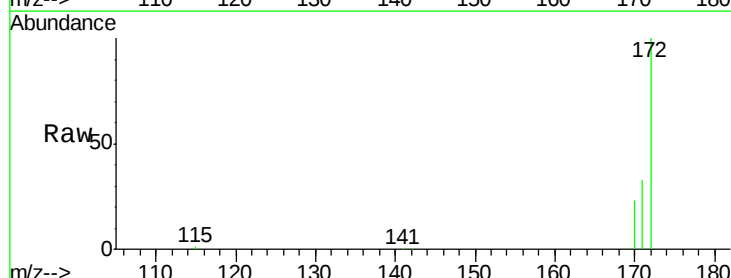
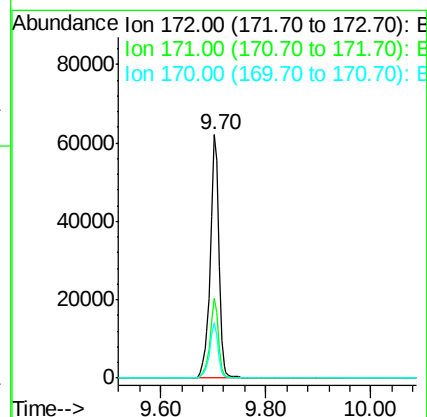
Tgt Ion:172 Resp: 79912

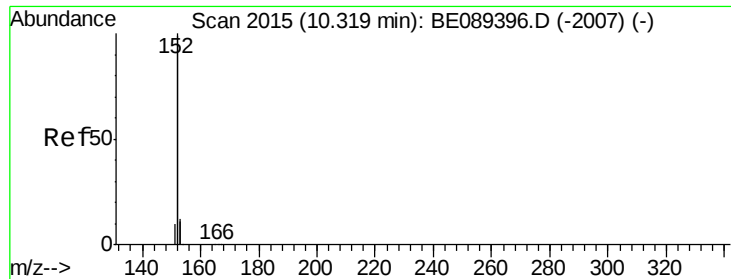
Ion Ratio Lower Upper

172 100

171 32.8 26.3 39.5

170 22.7 18.2 27.4





#9

Acenaphthylene

Concen: 0.07 ng

RT: 10.33 min Scan# 2016

Delta R.T. 0.01 min

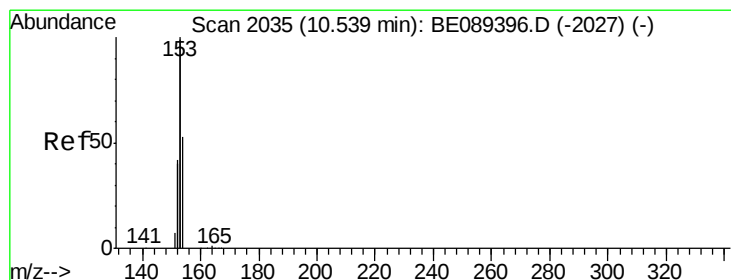
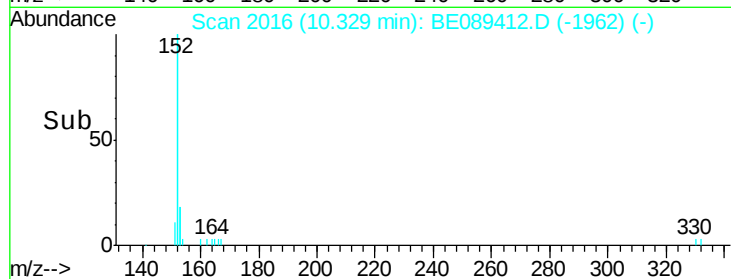
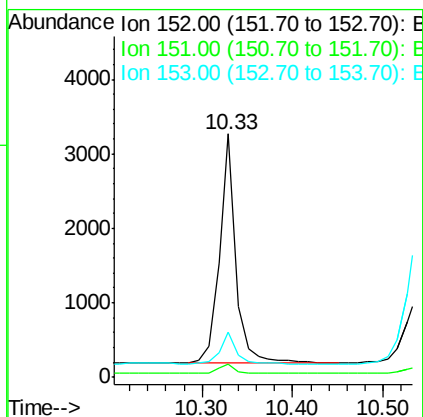
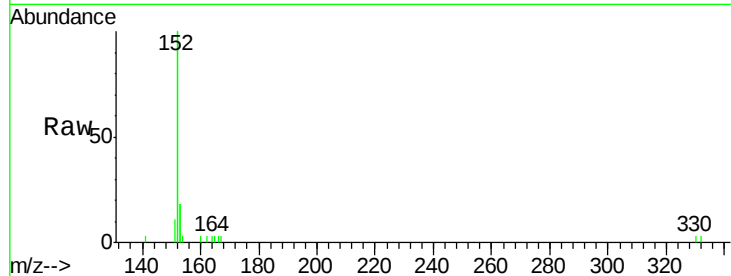
Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampled :

Tgt Ion:	152	Resp:	3906
Ion	Ratio	Lower	Upper
152	100		
151	4.7	3.7	5.5
153	13.5	10.2	15.4



#10

Acenaphthene

Concen: 0.08 ng

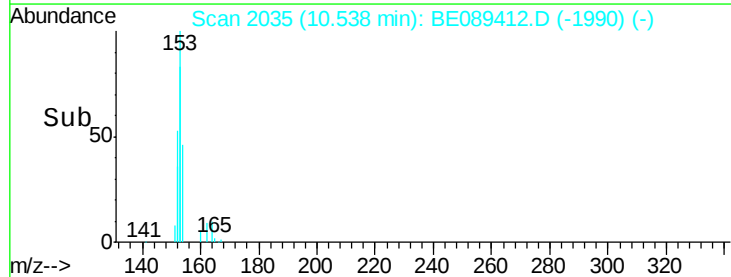
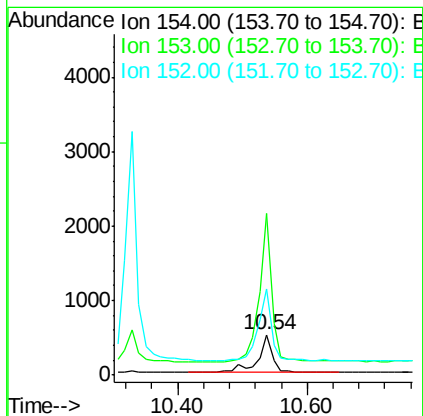
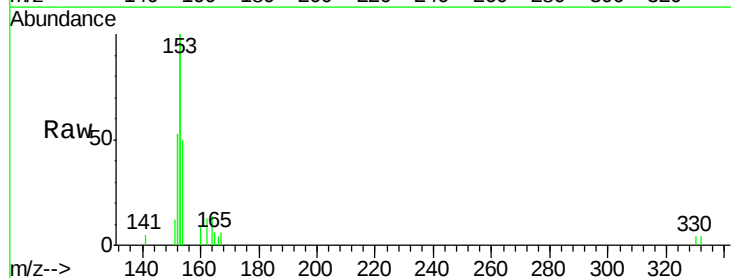
RT: 10.54 min Scan# 2035

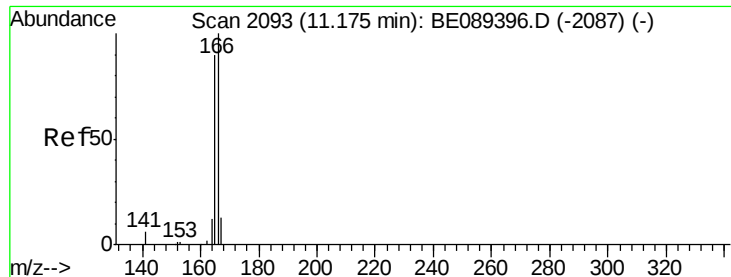
Delta R.T. -0.00 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Tgt Ion:	154	Resp:	746
Ion	Ratio	Lower	Upper
154	100		
153	356.4	328.2	492.4
152	182.7	162.8	244.2





#11

Fluorene

Concen: 0.07 ng

RT: 11.19 min Scan# 2094

Delta R.T. 0.01 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampleId :

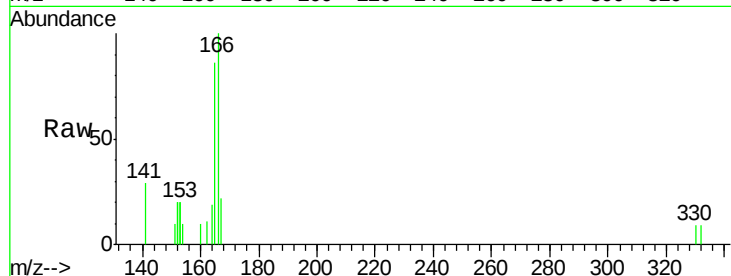
Tgt Ion:166 Resp: 621

Ion Ratio Lower Upper

166 100

165 88.2 73.0 109.6

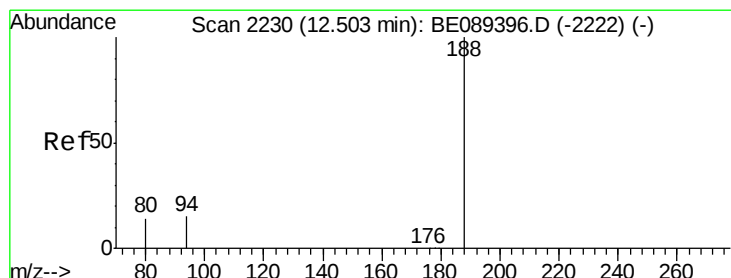
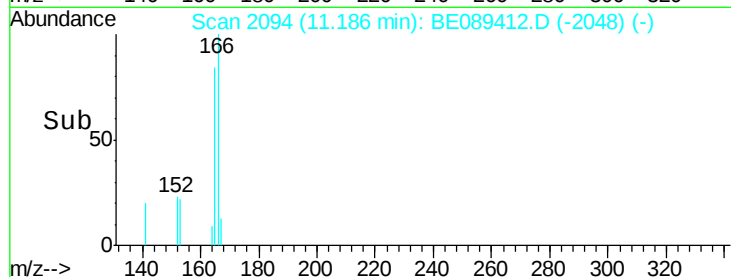
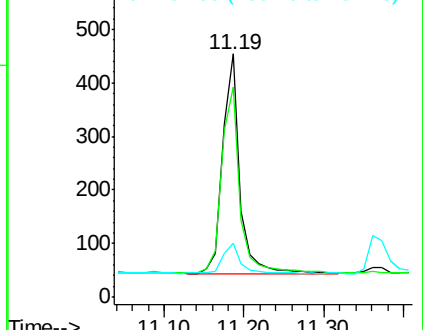
167 14.2 11.0 16.4



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



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.50 min Scan# 2231

Delta R.T. 0.00 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

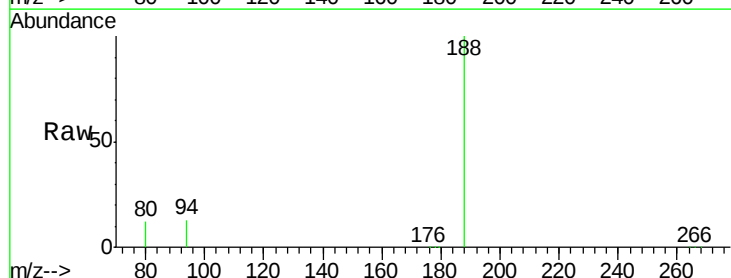
Tgt Ion:188 Resp: 48987

Ion Ratio Lower Upper

188 100

94 12.8 11.9 17.9

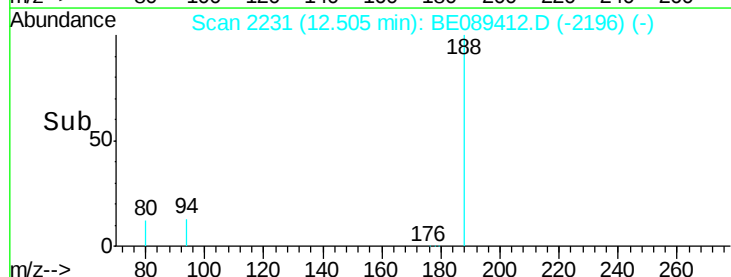
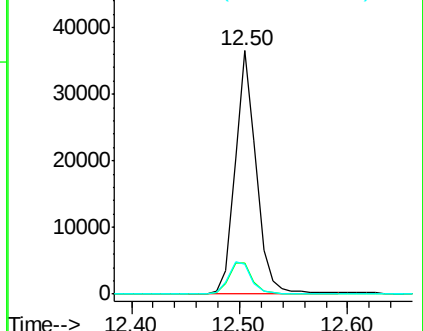
80 12.0 10.9 16.3

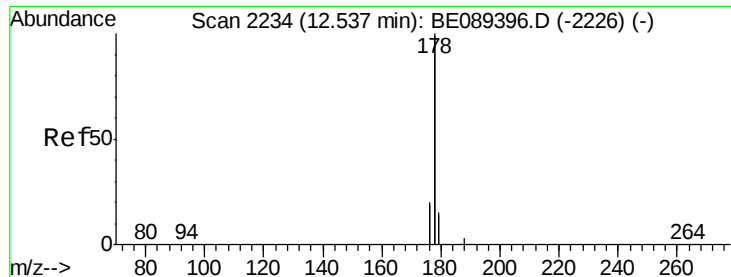


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

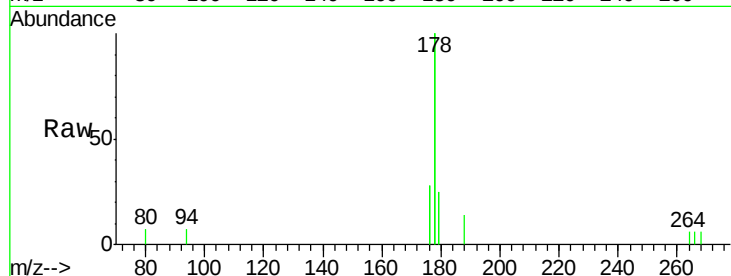




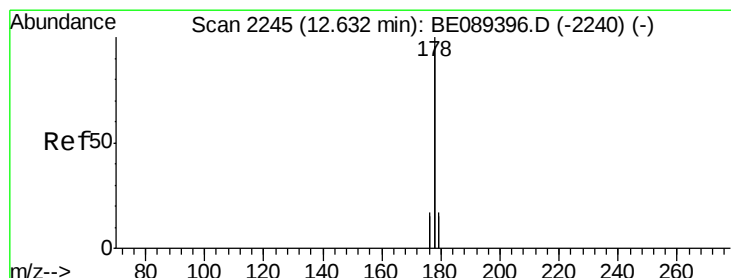
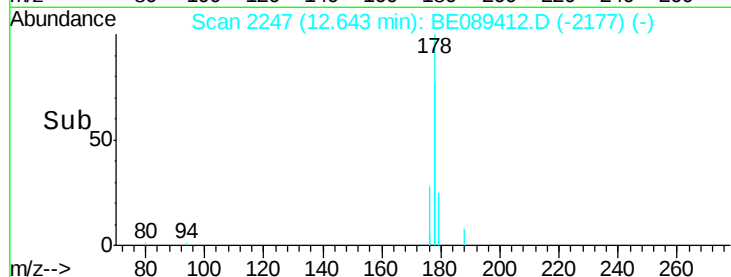
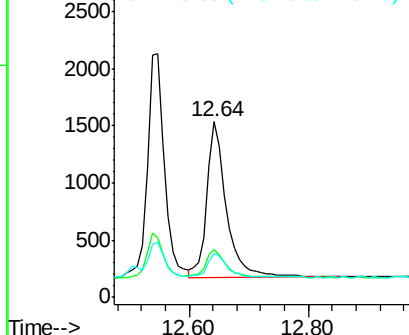
#13
 Phenanthrene
 Concen: 0.06 ng
 RT: 12.64 min Scan# 2247
 Delta R.T. 0.11 min
 Lab File: BE089412.D
 Acq: 17 Jan 2015 4:21

Instrument :
 ClientSampled :

Tgt Ion:178 Resp: 3123
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.0 22.4
 179 15.0 12.4 18.6

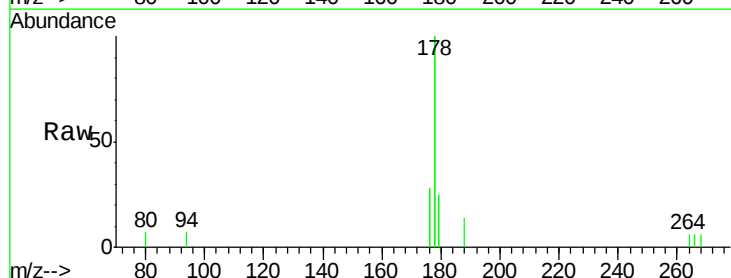


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

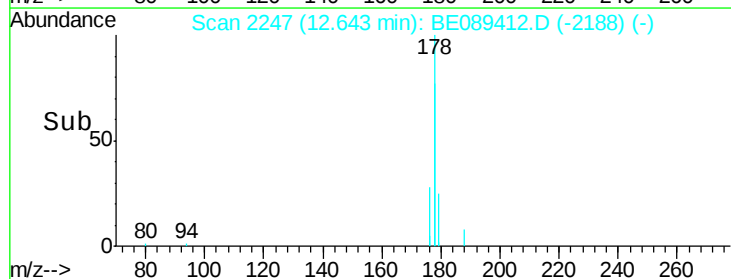
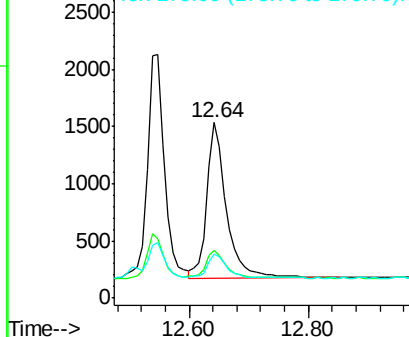


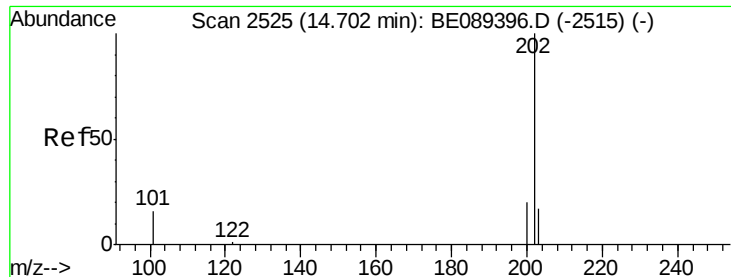
#14
 Anthracene
 Concen: 0.07 ng
 RT: 12.64 min Scan# 2247
 Delta R.T. 0.01 min
 Lab File: BE089412.D
 Acq: 17 Jan 2015 4:21

Tgt Ion:178 Resp: 3123
 Ion Ratio Lower Upper
 178 100
 176 18.1 14.2 21.4
 179 15.0 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

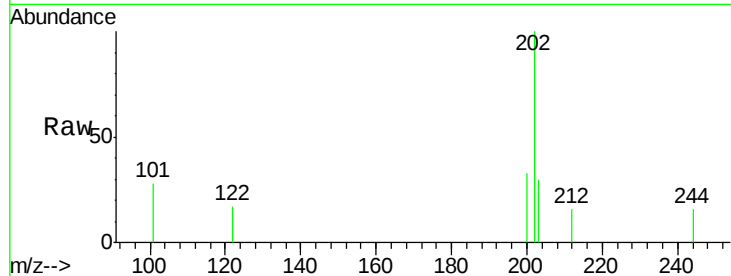




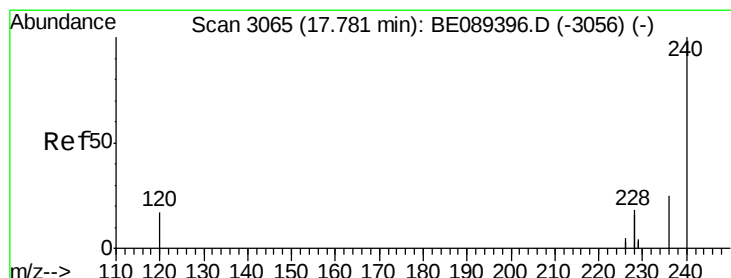
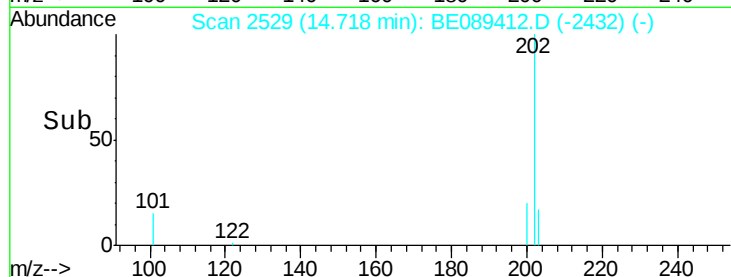
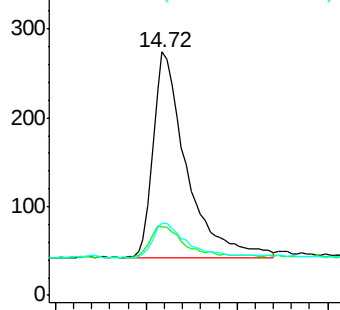
#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 14.72 min Scan# 2529
 Delta R.T. 0.02 min
 Lab File: BE089412.D
 Acq: 17 Jan 2015 4:21

Instrument :
 ClientSampleId :

Tgt Ion: 202 Resp: 589
 Ion Ratio Lower Upper
 202 100
 101 15.6 13.4 20.2
 203 17.3 13.7 20.5

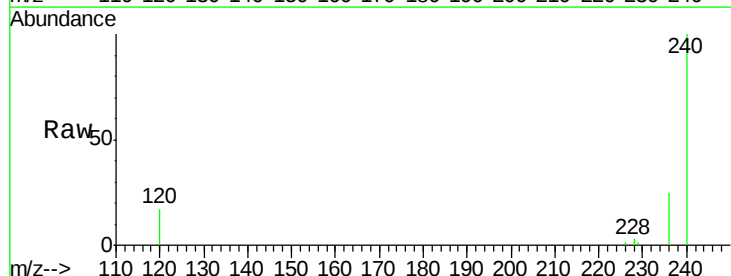


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

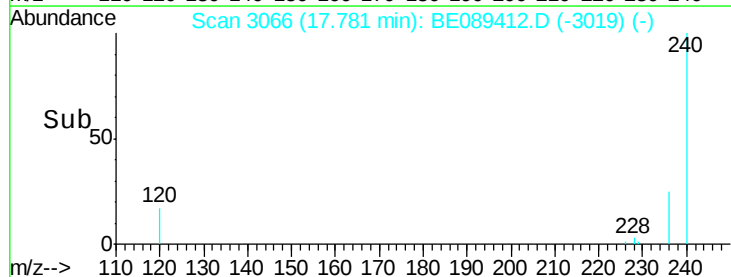
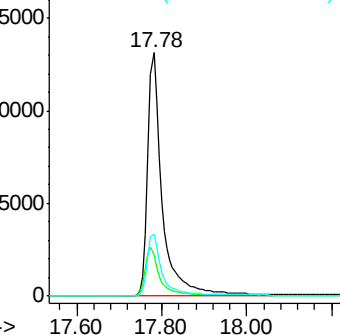


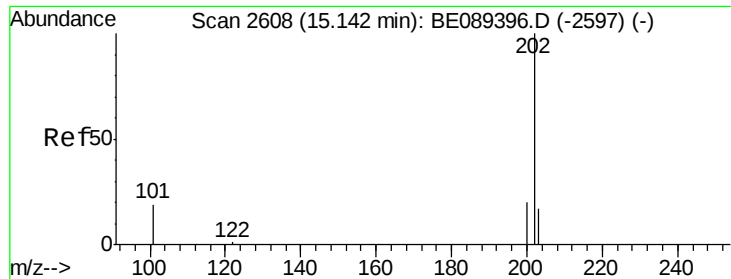
#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 17.78 min Scan# 3066
 Delta R.T. -0.00 min
 Lab File: BE089412.D
 Acq: 17 Jan 2015 4:21

Tgt Ion: 240 Resp: 30566
 Ion Ratio Lower Upper
 240 100
 120 16.8 13.4 20.2
 236 25.4 20.2 30.4



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

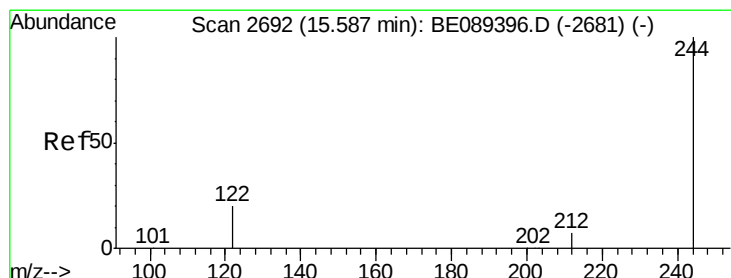
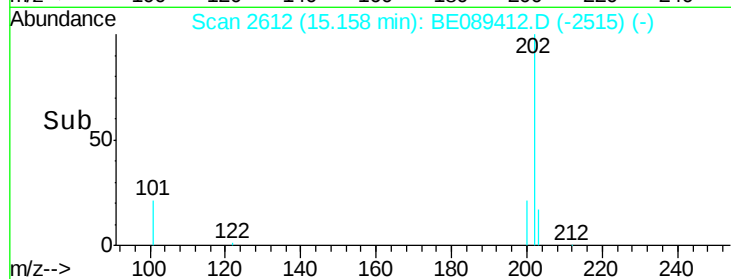
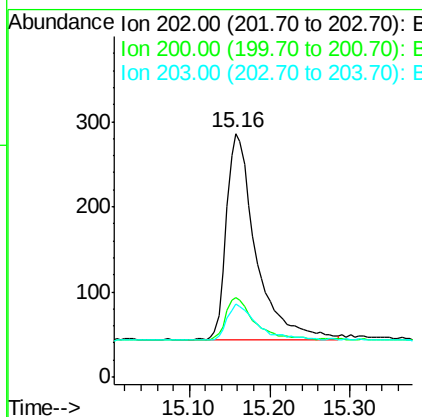
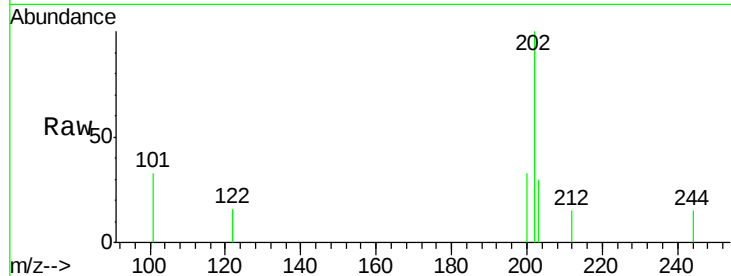




#17
 Pyrene
 Concen: 0.07 ng
 RT: 15.16 min Scan# 2612
 Delta R.T. 0.02 min
 Lab File: BE089412.D
 Acq: 17 Jan 2015 4:21

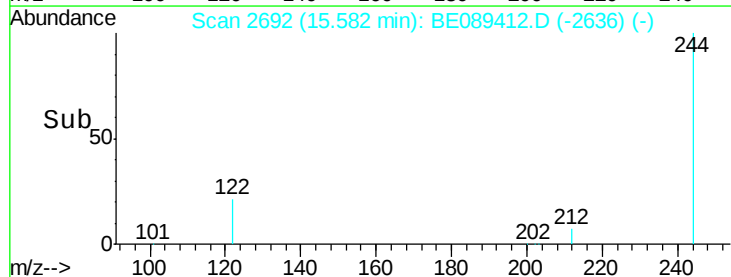
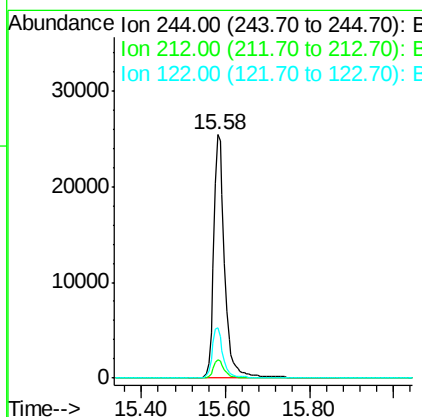
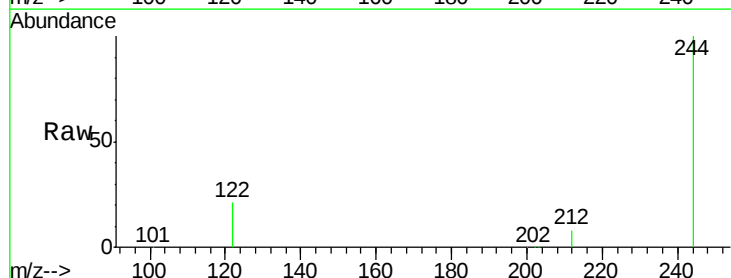
Instrument :
 ClientSampled :

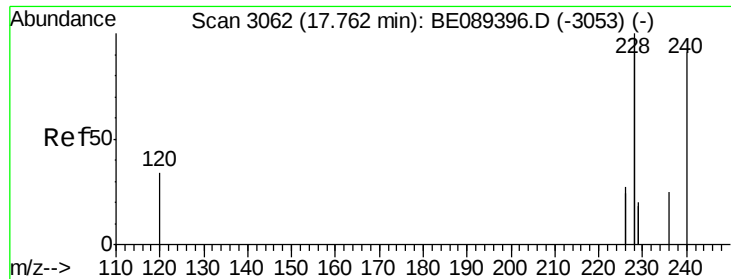
Tgt Ion: 202 Resp: 612
 Ion Ratio Lower Upper
 202 100
 200 20.6 16.1 24.1
 203 18.0 13.7 20.5



#18
 Terphenyl-d14
 Concen: 10.25 ng
 RT: 15.58 min Scan# 2692
 Delta R.T. -0.01 min
 Lab File: BE089412.D
 Acq: 17 Jan 2015 4:21

Tgt Ion: 244 Resp: 45281
 Ion Ratio Lower Upper
 244 100
 212 7.6 7.0 10.4
 122 20.7 17.4 26.2





#19

Benzo(a)anthracene

Concen: 0.08 ng

RT: 17.77 min Scan# 3064

Delta R.T. 0.01 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampled :

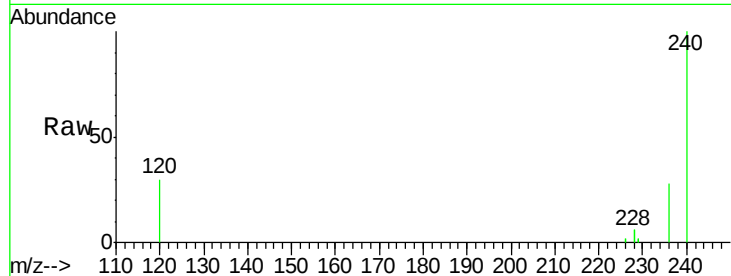
Tgt Ion:228 Resp: 1854

Ion Ratio Lower Upper

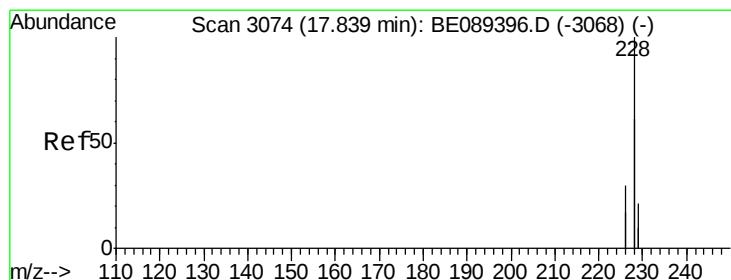
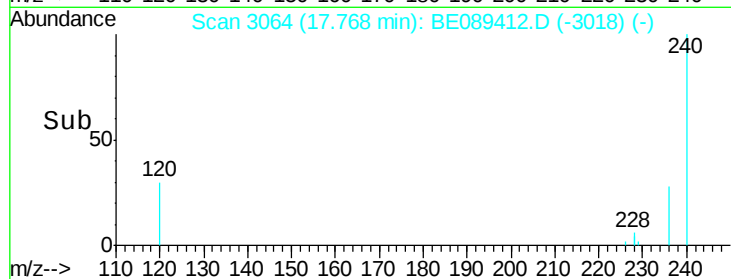
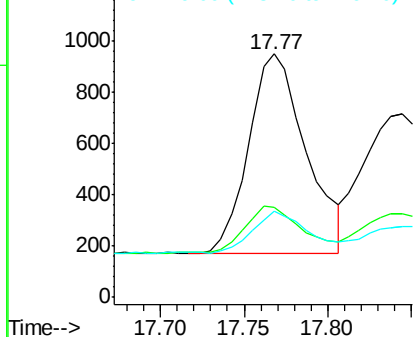
228 100

226 37.1 21.5 32.3#

229 35.4 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# 3076

Delta R.T. 0.01 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

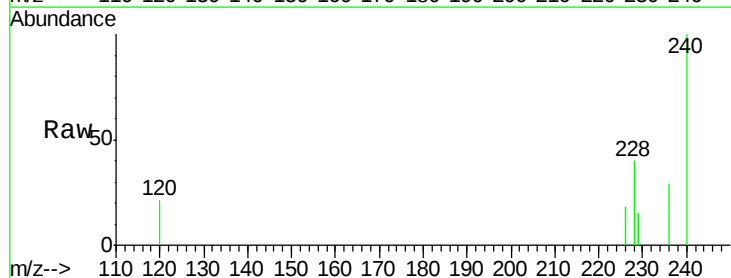
Tgt Ion:228 Resp: 2310

Ion Ratio Lower Upper

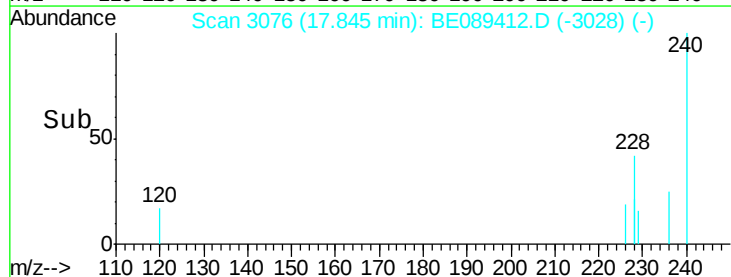
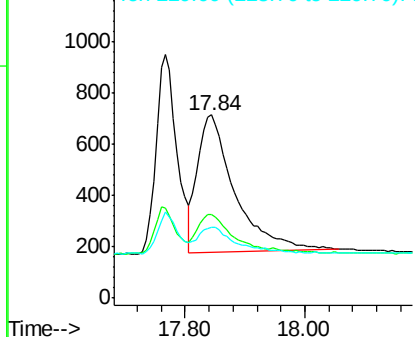
228 100

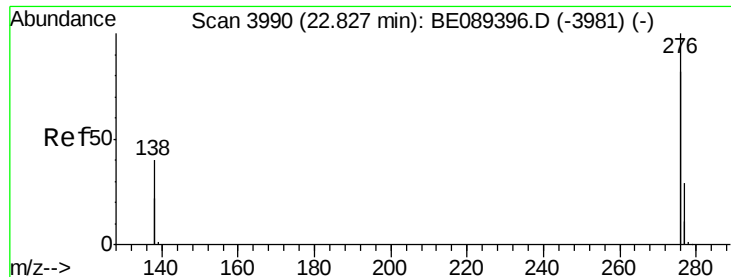
226 45.4 23.8 35.6#

229 38.9 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

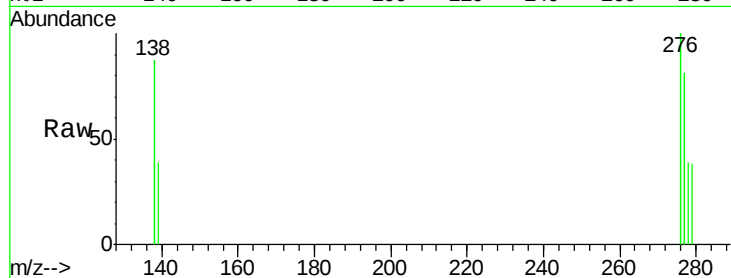
Delta R.T. 0.04 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampled :



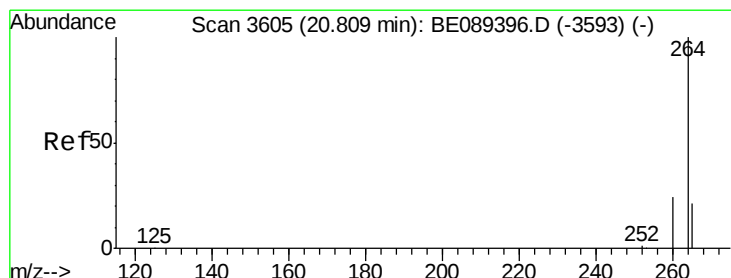
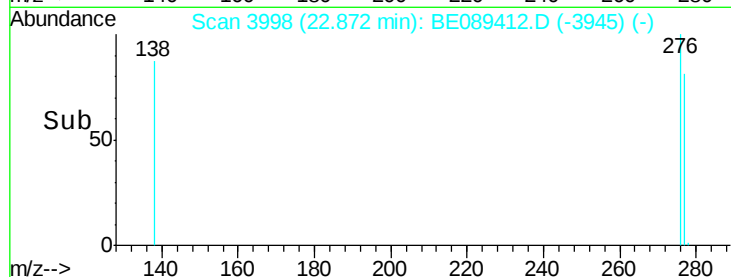
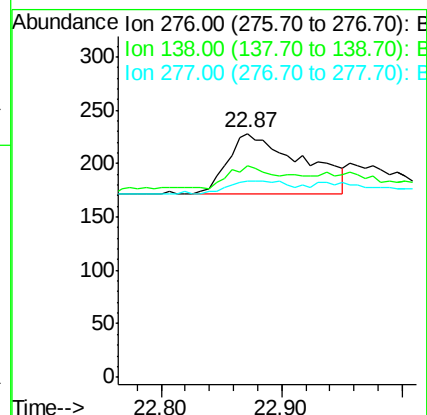
Tgt Ion: 276 Resp: 238

Ion Ratio Lower Upper

276 100

138 21.8 13.8 20.8#

277 16.4 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: BE089412.D

Acq: 17 Jan 2015 4:21

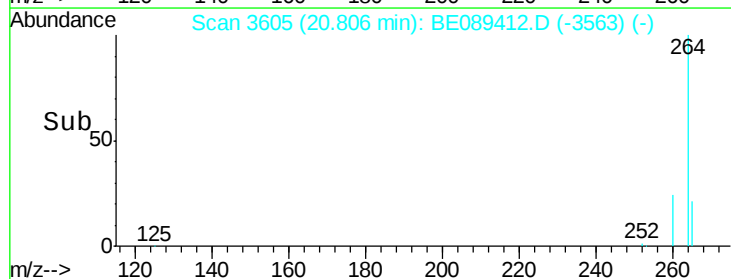
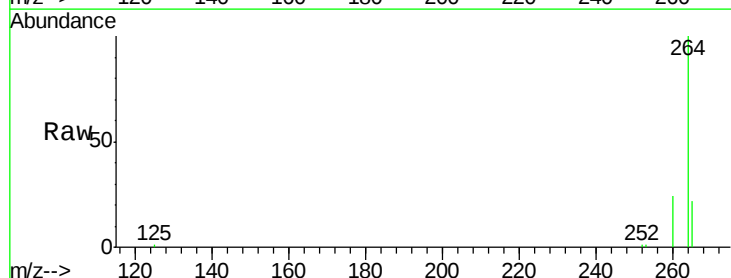
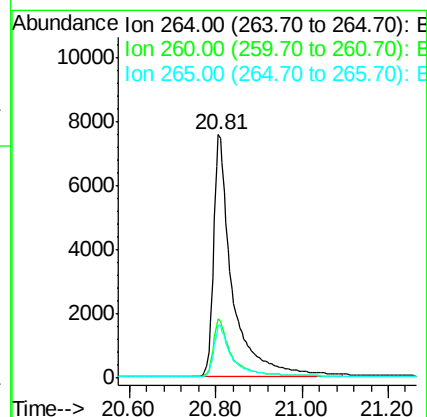
Tgt Ion: 264 Resp: 23283

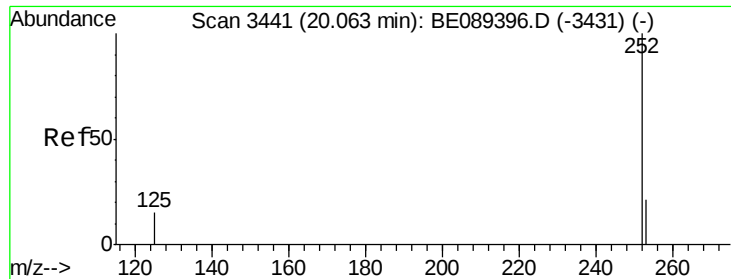
Ion Ratio Lower Upper

264 100

260 24.3 19.1 28.7

265 21.6 17.5 26.3





#23

Benzo(b)fluoranthene

Concen: 0.36 ng

RT: 20.09 min Scan# 3448

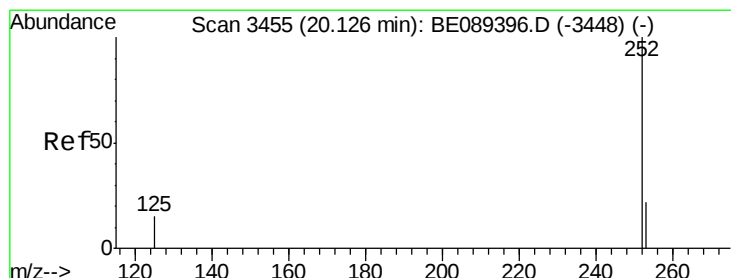
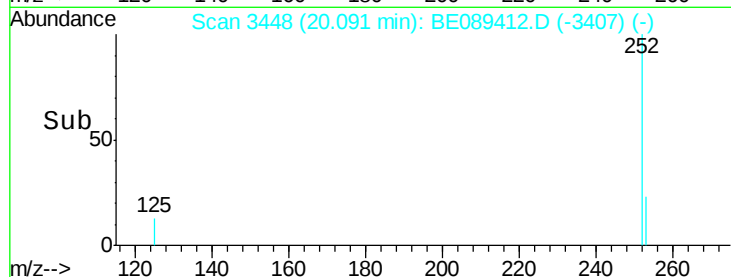
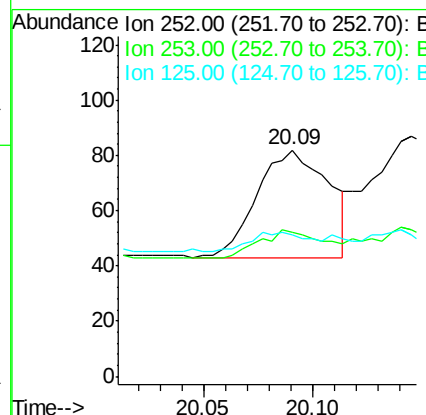
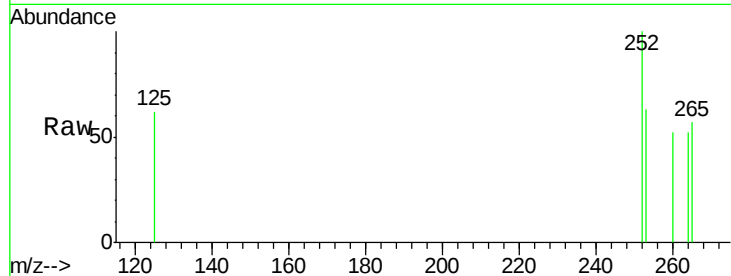
Delta R.T. 0.03 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :
ClientSampled :

Tgt Ion:	252	Resp:	89
Ion	Ratio	Lower	Upper
252	100		
253	63.4	19.1	28.7#
125	62.2	14.3	21.5#



#24

Benzo(k)fluoranthene

Concen: 0.11 ng

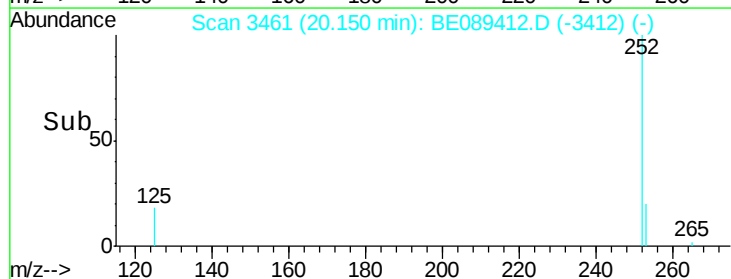
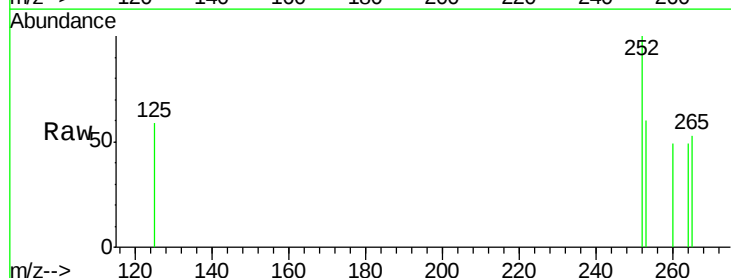
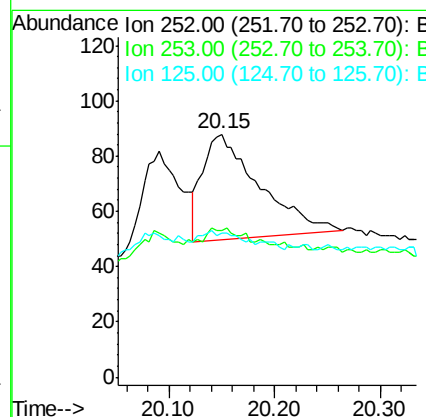
RT: 20.15 min Scan# 3461

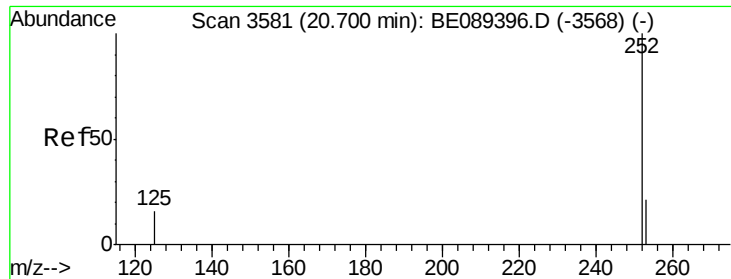
Delta R.T. 0.02 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Tgt Ion:	252	Resp:	142
Ion	Ratio	Lower	Upper
252	100		
253	60.2	19.4	29.0#
125	59.1	14.0	21.0#





#25

Benzo(a)pyrene

Concen: 0.34 ng

RT: 20.70 min Scan# 3582

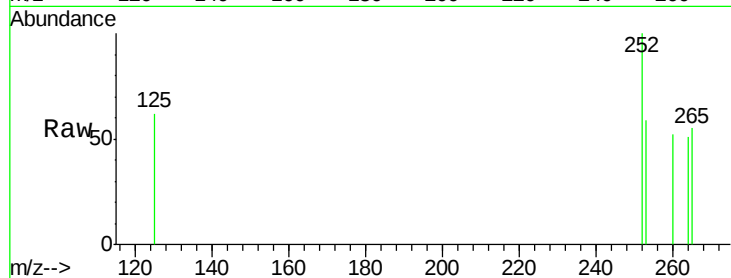
Delta R.T. 0.00 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampled :



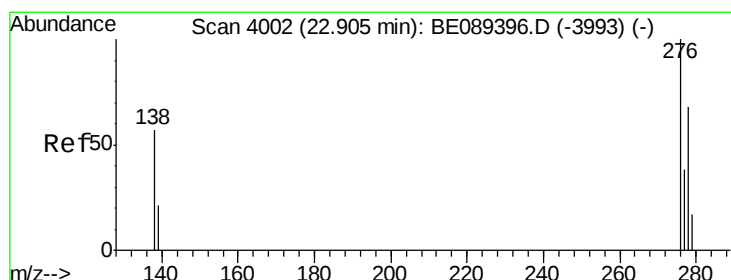
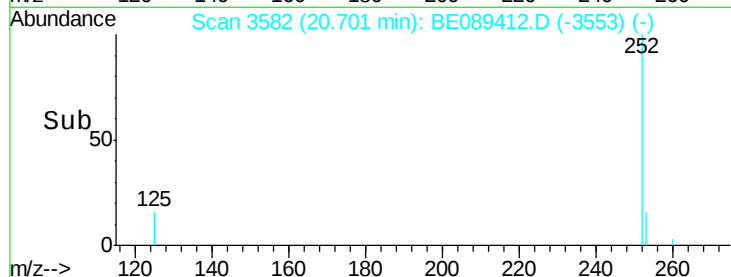
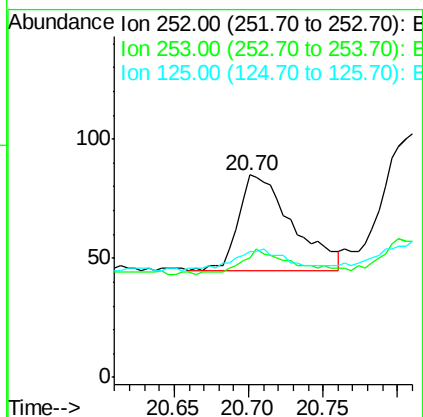
Tgt Ion:252 Resp: 100

Ion Ratio Lower Upper

252 100

253 58.8 19.5 29.3#

125 62.4 15.4 23.2#



#26

Dibenzo(a,h)anthracene

Concen: 0.38 ng

RT: 22.87 min Scan# 3997

Delta R.T. -0.04 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

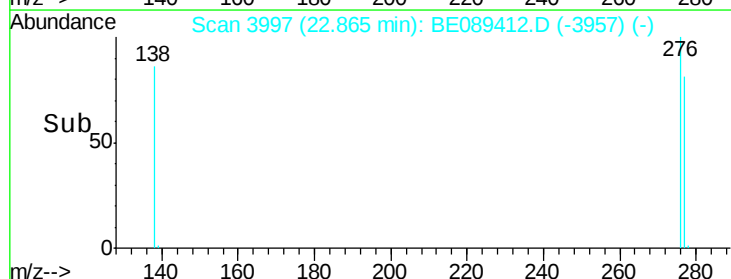
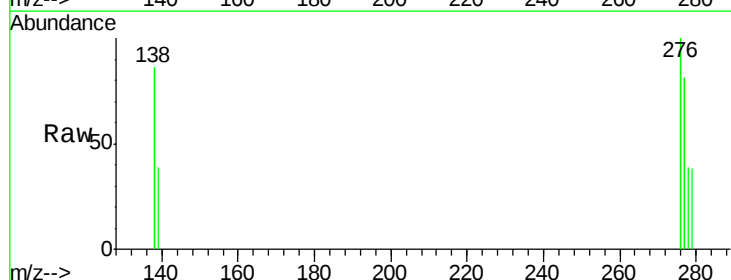
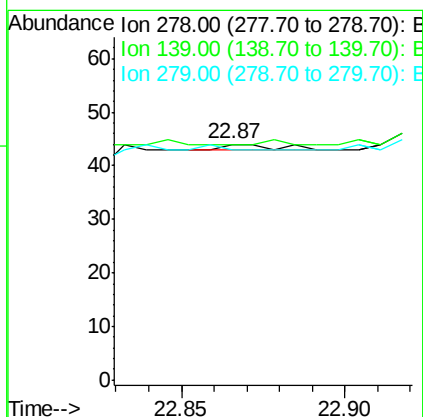
Tgt Ion:278 Resp: 1

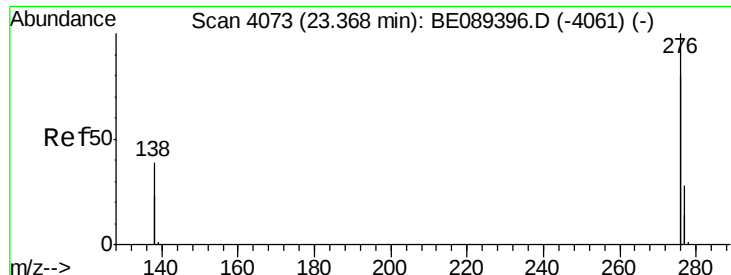
Ion Ratio Lower Upper

278 100

139 100.0 30.5 45.7#

279 97.7 25.8 38.8#





#27

Benzo(g,h,i)perylene

Concen: 0.28 ng

RT: 23.41 min Scan# 4080

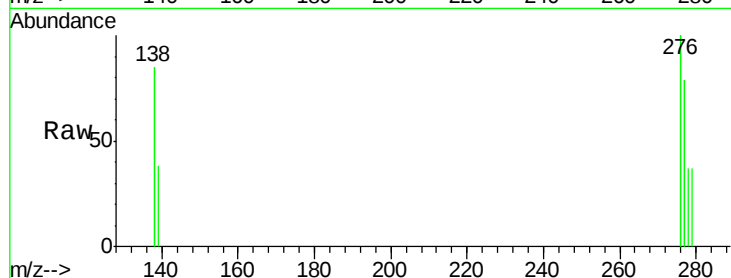
Delta R.T. 0.04 min

Lab File: BE089412.D

Acq: 17 Jan 2015 4:21

Instrument :

ClientSampleId :



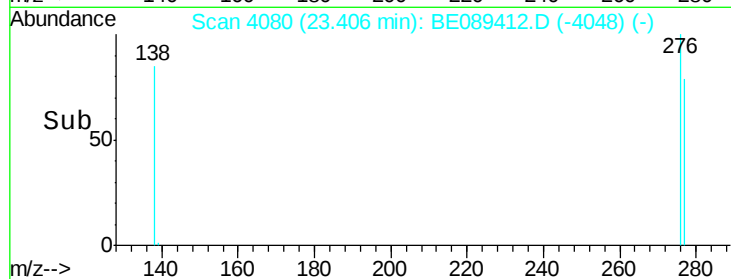
Tgt Ion: 276 Resp: 409

Ion Ratio Lower Upper

276 100

277 78.8 22.8 34.2#

138 84.7 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

