

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE011615\
 Data File : BE089411.D
 Acq On : 17 Jan 2015 3:13
 Operator : TP/IZ
 Sample : MDL-07-W
 Misc : MDL-WATER-0.1/0.2
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 ClientSampleId :

Quant Time: Jan 17 06:07:44 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	18890	5.00	ng	0.00
3) Naphthalene-d8	8.36	136	70493	5.00	ng	0.00
7) Acenaphthene-d10	10.49	164	31802	5.00	ng	0.00
12) Phenanthrene-d10	12.50	188	48500	5.00	ng	0.00
16) Chrysene-d12	17.78	240	32576	5.00	ng	0.00
22) Perylene-d12	20.81	264	24337	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.50	82	42257	10.94	ng	0.00
8) 2-Fluorobiphenyl	9.70	172	76560	9.66	ng	0.00
18) Terphenyl-d14	15.58	244	45980	9.77	ng	0.00

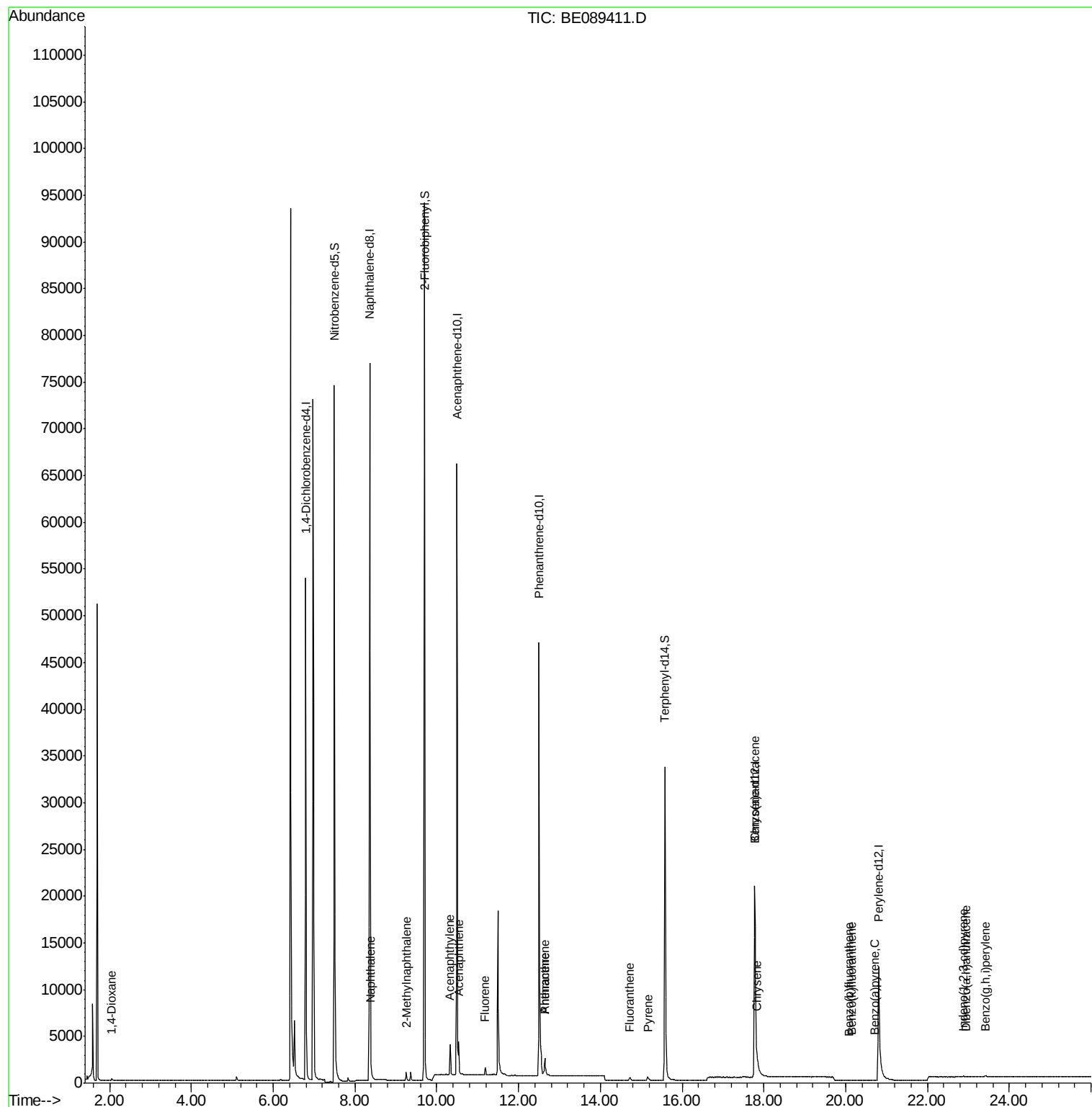
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	2.05	88	166	0.06	ng	# 83
5) Naphthalene	8.39	128	1118	0.07	ng	# 87
6) 2-Methylnaphthalene	9.25	142	639	0.07	ng	# 95
9) Acenaphthylene	10.33	152	3533	0.06	ng	97
10) Acenaphthene	10.54	154	686	0.08	ng	84
11) Fluorene	11.19	166	550	0.06	ng	98
13) Phenanthrene	12.64	178	2883	0.06	ng	98
14) Anthracene	12.64	178	2883	0.06	ng	100
15) Fluoranthene	14.72	202	568	0.06	ng	98
17) Pyrene	15.16	202	591	0.06	ng	98
19) Benzo(a)anthracene	17.77	228	1903	0.08	ng	# 75
20) Chrysene	17.84	228	2256	0.07	ng	# 69
21) Indeno(1,2,3-cd)pyrene	22.88	276	223	0.41	ng	# 56
23) Benzo(b)fluoranthene	20.09	252	100	0.36	ng	# 12
24) Benzo(k)fluoranthene	20.15	252	153	0.11	ng	# 21
25) Benzo(a)pyrene	20.71	252	104	0.34	ng	# 17
26) Dibenzo(a,h)anthracene	22.94	278	49	0.39	ng	# 10
27) Benzo(g,h,i)perylene	23.41	276	390	0.27	ng	# 16

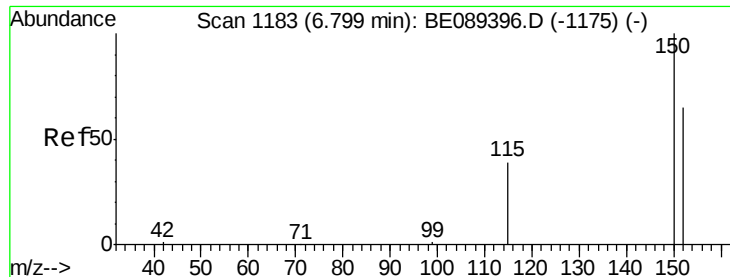
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.80 min Scan# 1183

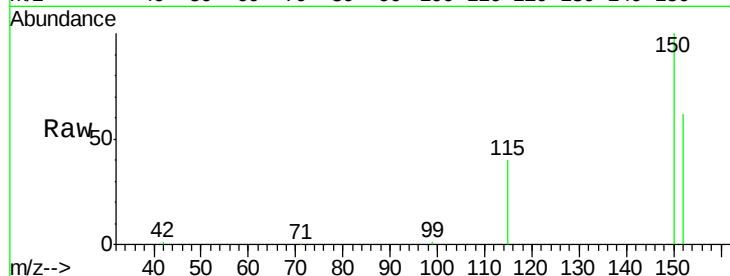
Delta R.T. -0.00 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :



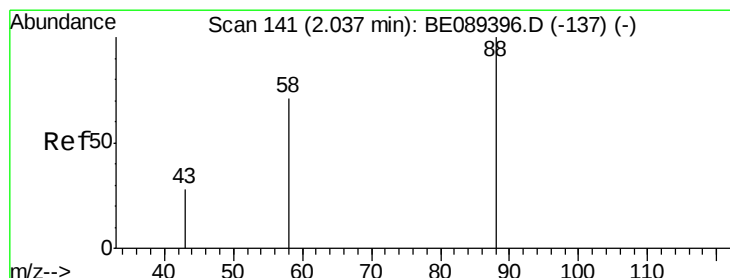
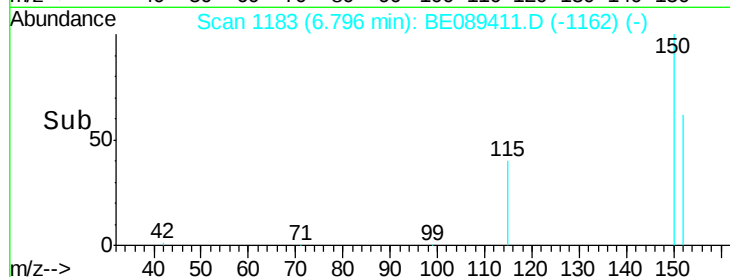
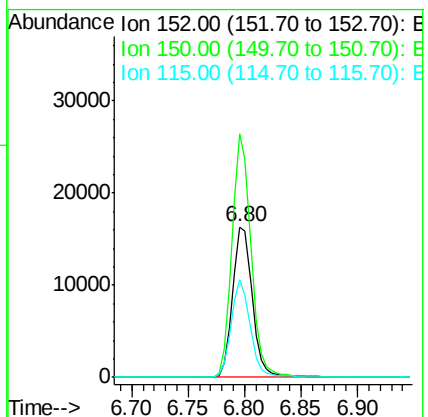
Tgt Ion: 152 Resp: 18890

Ion Ratio Lower Upper

152 100

150 161.9 123.6 185.4

115 65.0 48.1 72.1



#2

1,4-Dioxane

Concen: 0.06 ng

RT: 2.05 min Scan# 143

Delta R.T. 0.01 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

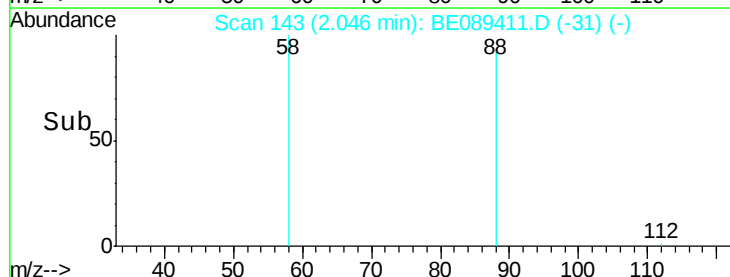
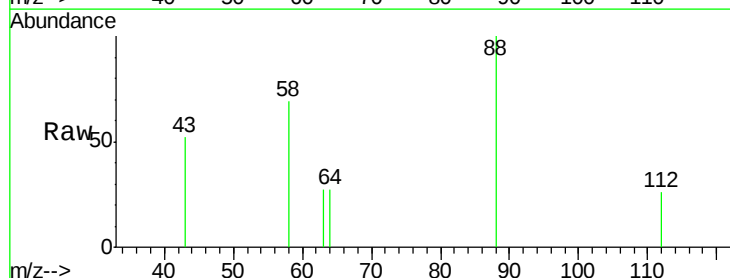
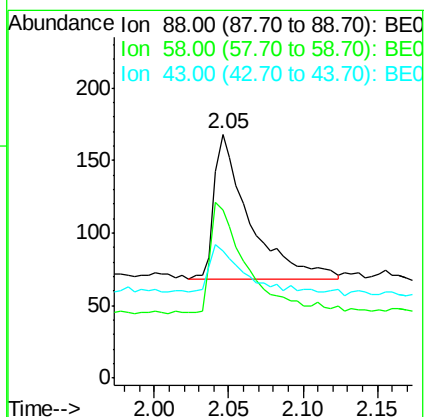
Tgt Ion: 88 Resp: 166

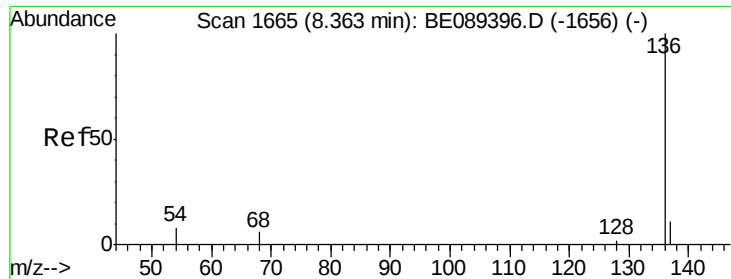
Ion Ratio Lower Upper

88 100

58 78.9 63.8 95.8

43 0.0 25.8 38.8#





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.36 min Scan# 1666

Delta R.T. -0.00 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :

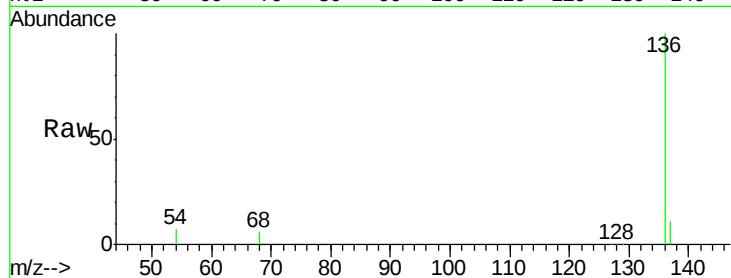
Tgt Ion: 136 Resp: 70493

Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

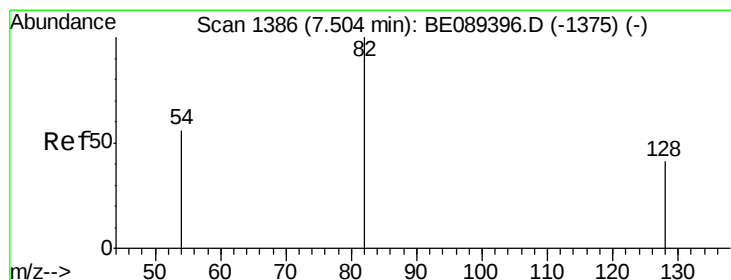
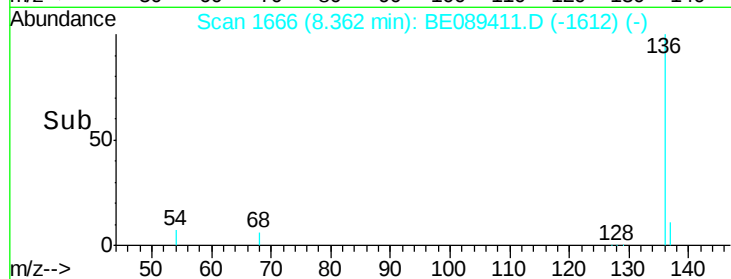
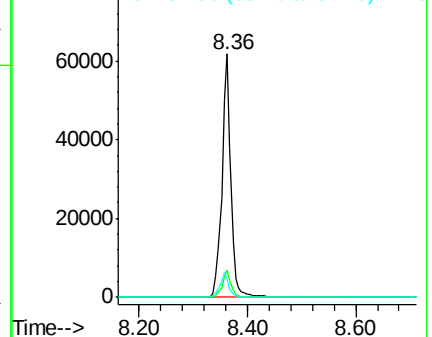
54 7.4 6.2 9.2



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: 10.94 ng

RT: 7.50 min Scan# 1384

Delta R.T. -0.01 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

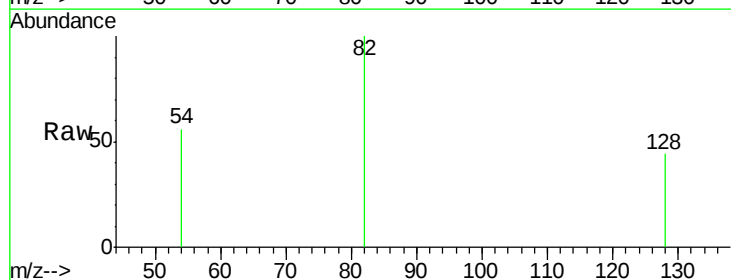
Tgt Ion: 82 Resp: 42257

Ion Ratio Lower Upper

82 100

128 43.7 33.4 50.2

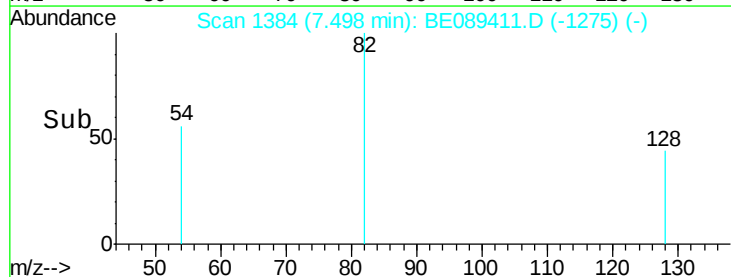
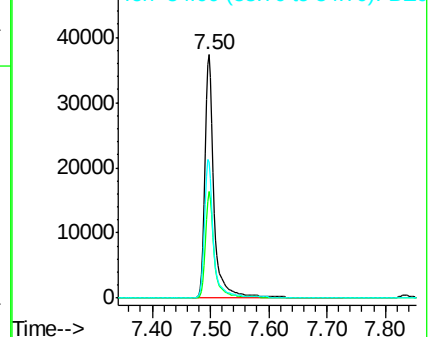
54 56.1 45.2 67.8

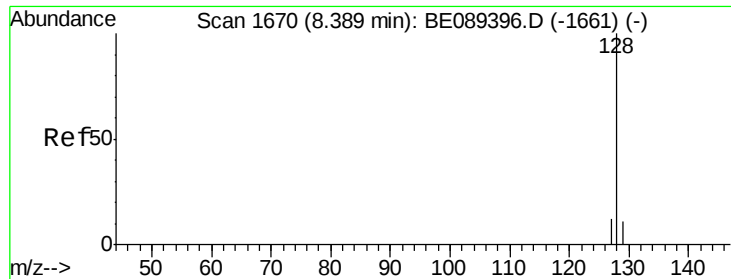


Abundance Ion 82.00 (81.70 to 82.70): BE0

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# 1671

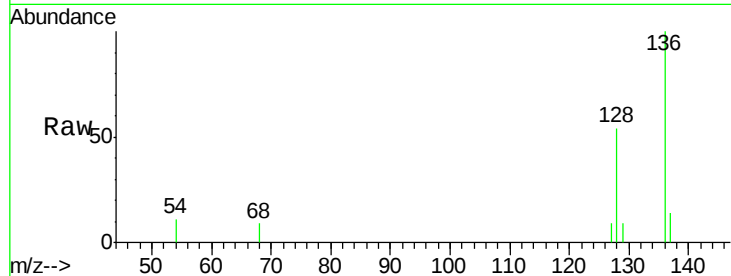
Delta R.T. -0.00 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :



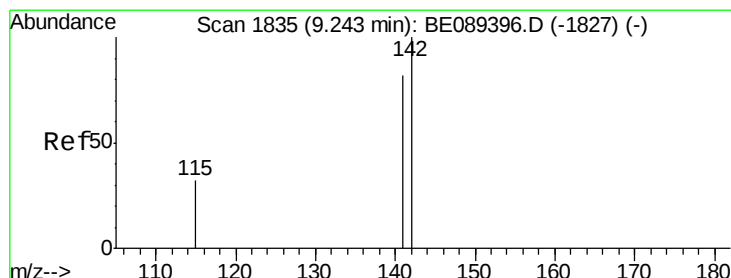
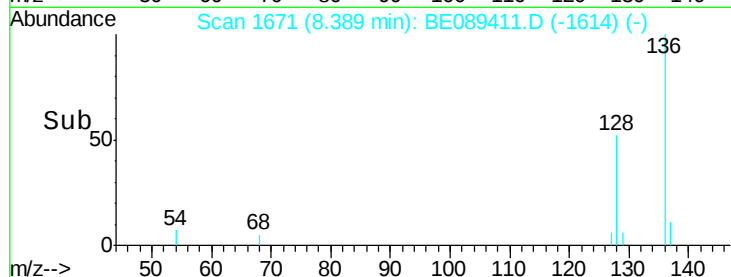
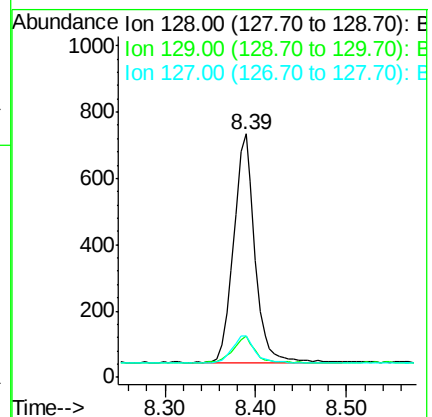
Tgt Ion:128 Resp: 1118

Ion Ratio Lower Upper

128 100

129 16.8 9.2 13.8#

127 16.9 9.7 14.5#



#6

2-Methylnaphthalene

Concen: 0.07 ng

RT: 9.25 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

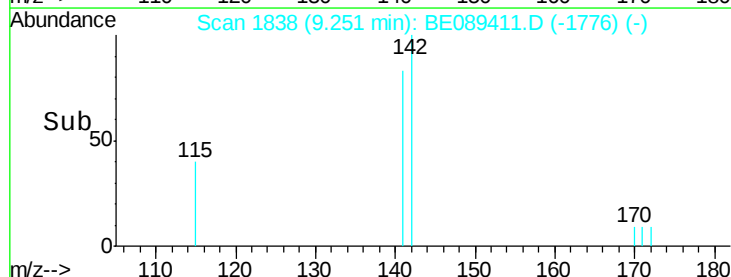
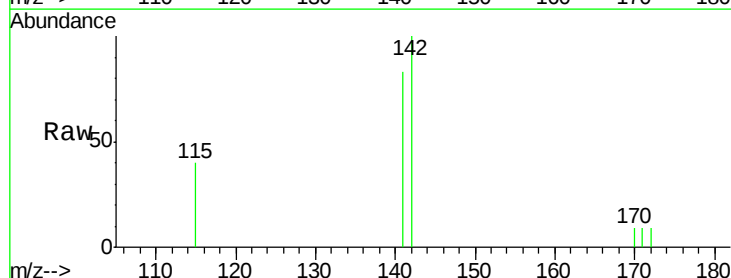
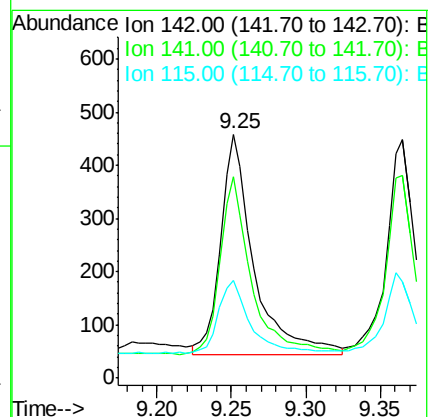
Tgt Ion:142 Resp: 639

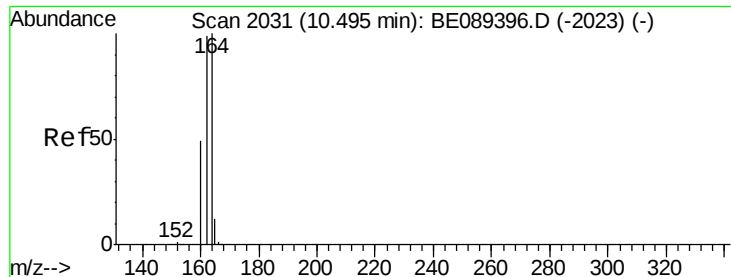
Ion Ratio Lower Upper

142 100

141 82.8 65.3 97.9

115 40.2 26.1 39.1#





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.49 min Scan# 2032

Delta R.T. -0.00 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :

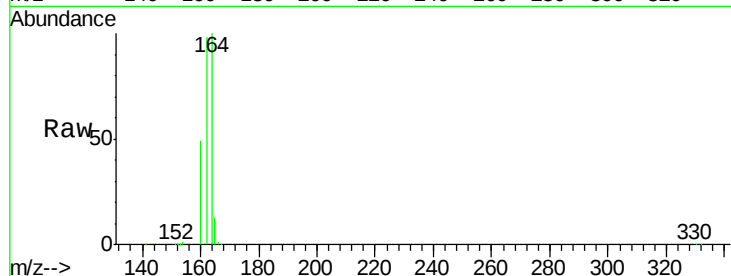
Tgt Ion:164 Resp: 31802

Ion Ratio Lower Upper

164 100

162 98.3 79.2 118.8

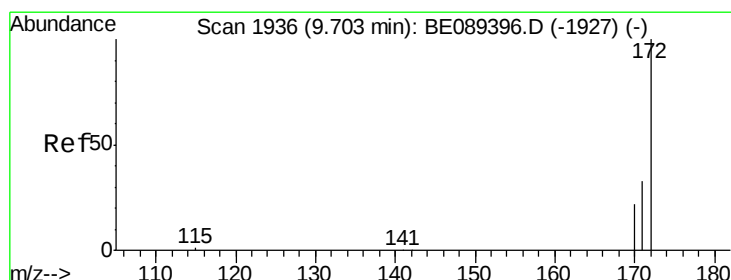
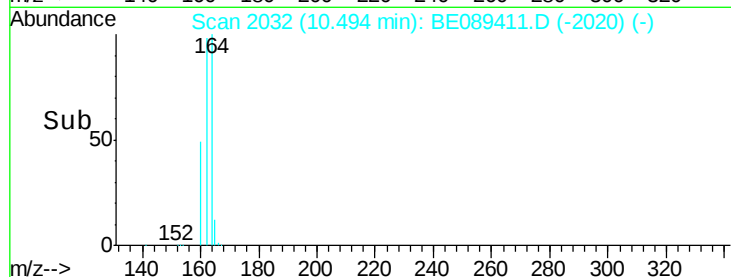
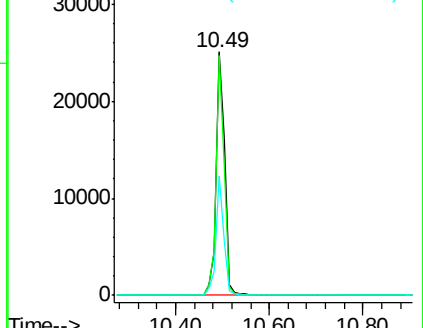
160 49.0 39.3 58.9



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: 9.66 ng

RT: 9.70 min Scan# 1937

Delta R.T. -0.00 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

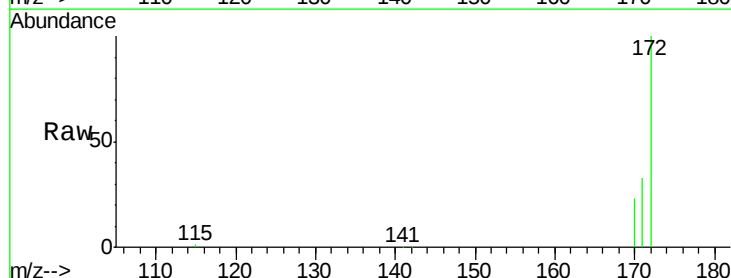
Tgt Ion:172 Resp: 76560

Ion Ratio Lower Upper

172 100

171 32.9 26.3 39.5

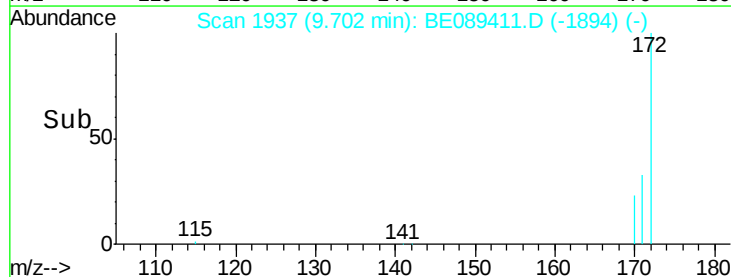
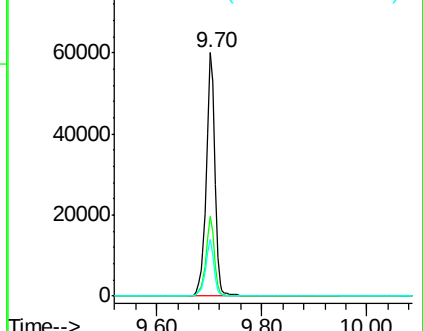
170 23.2 18.2 27.4

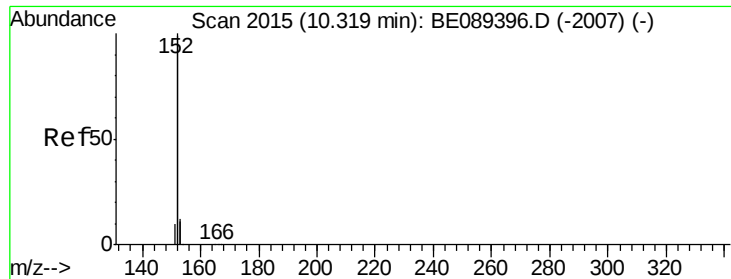


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.06 ng

RT: 10.33 min Scan# 2017

Delta R.T. 0.01 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :

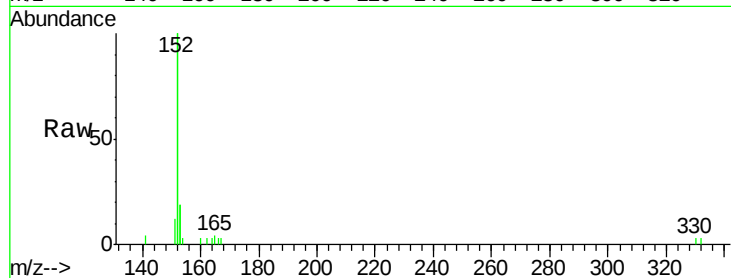
Tgt Ion:152 Resp: 3533

Ion Ratio Lower Upper

152 100

151 5.1 3.7 5.5

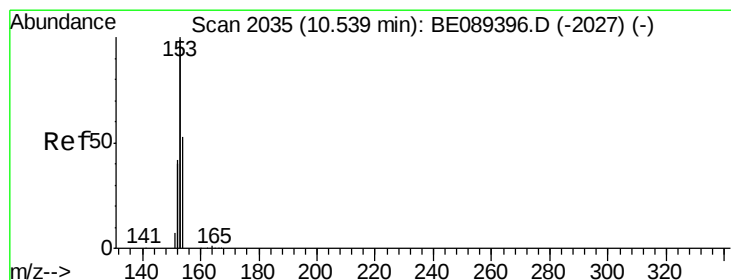
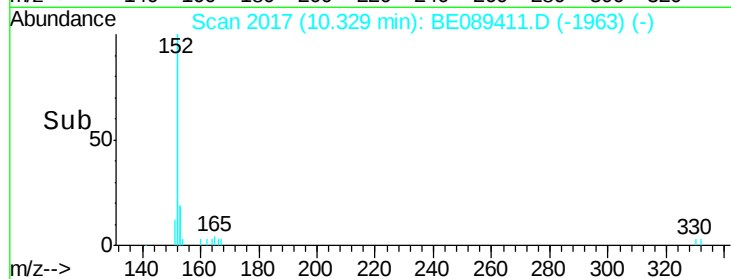
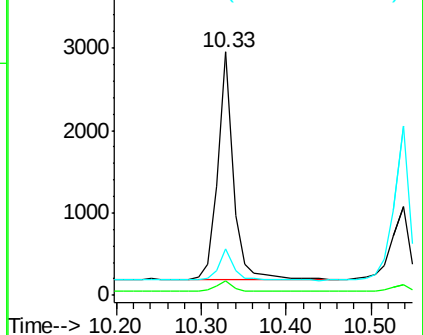
153 14.0 10.2 15.4



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# 2036

Delta R.T. -0.00 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

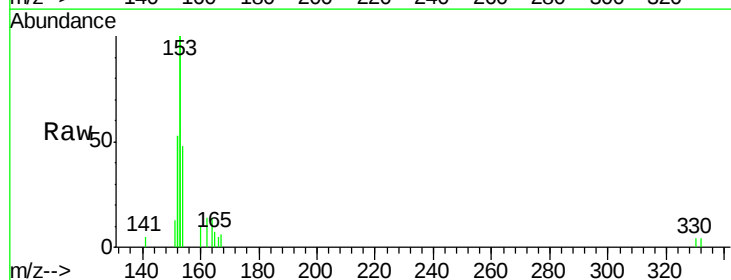
Tgt Ion:154 Resp: 686

Ion Ratio Lower Upper

154 100

153 353.6 328.2 492.4

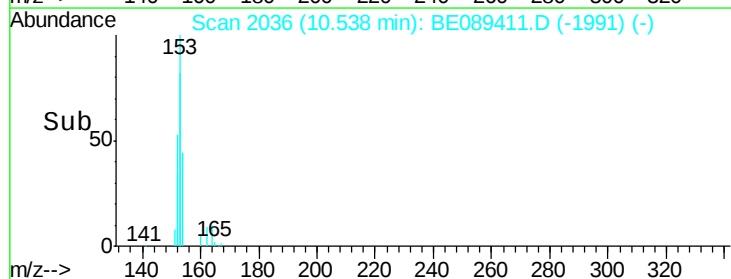
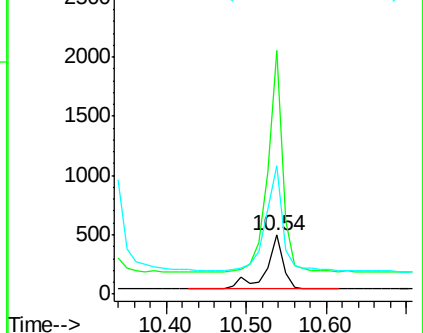
152 203.1 162.8 244.2

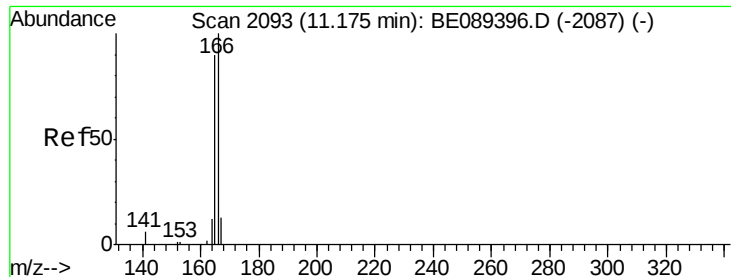


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.06 ng

RT: 11.19 min Scan# 2095

Delta R.T. 0.01 min

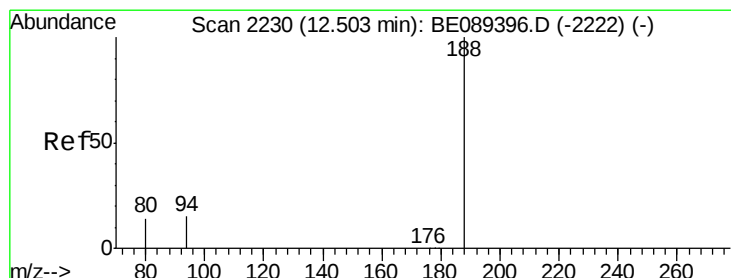
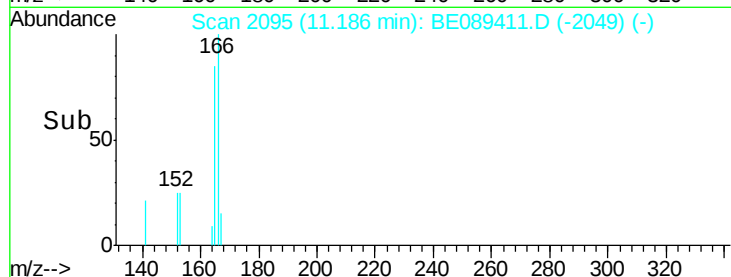
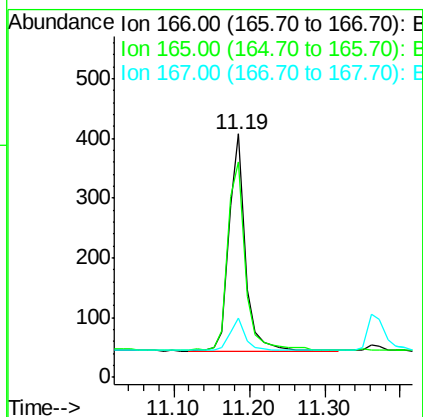
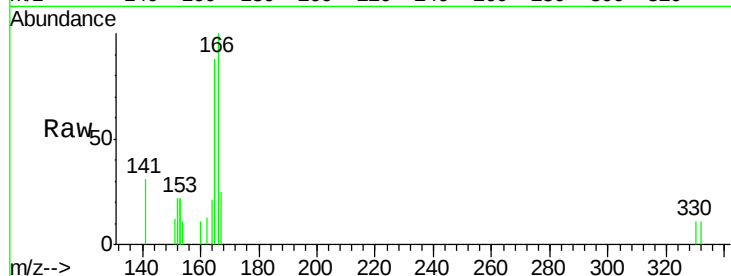
Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :

Tgt Ion:	166	Resp:	550
Ion	Ratio	Lower	Upper
166	100		
165	92.4	73.0	109.6
167	16.0	11.0	16.4



#12

Phenanthrene-d10

Concen: 5.00 ng

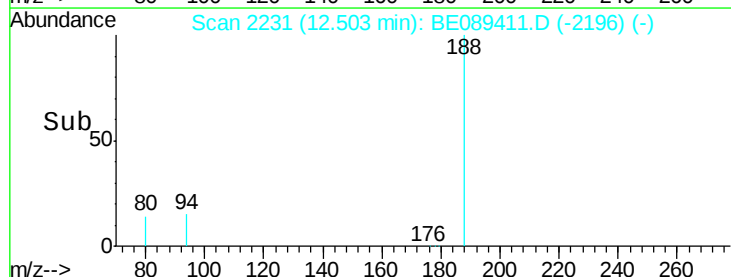
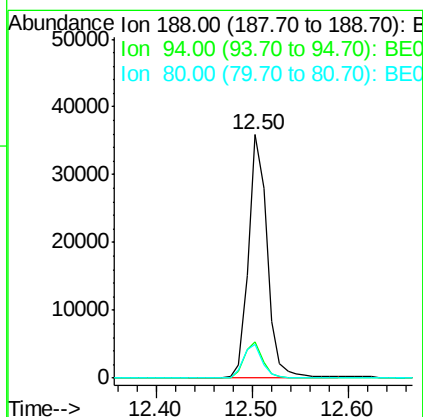
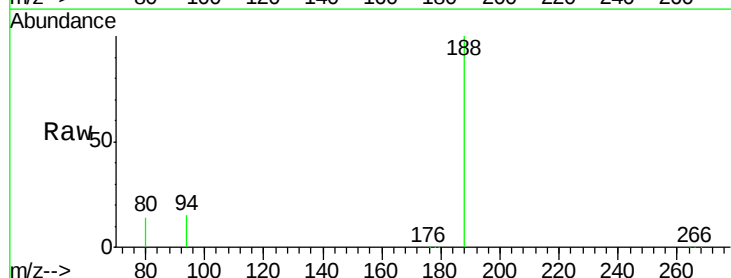
RT: 12.50 min Scan# 2231

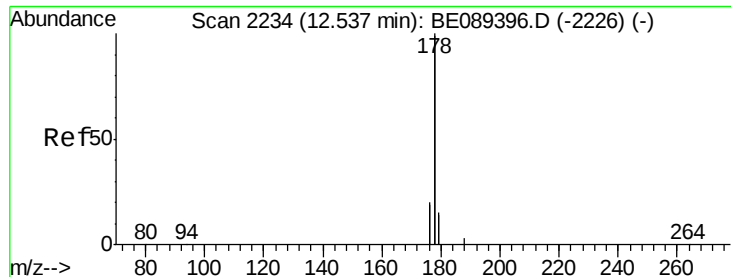
Delta R.T. 0.00 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Tgt Ion:	188	Resp:	48500
Ion	Ratio	Lower	Upper
188	100		
94	15.0	11.9	17.9
80	14.1	10.9	16.3





#13

Phenanthrene

Concen: 0.06 ng

RT: 12.64 min Scan# 2247

Delta R.T. 0.10 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :

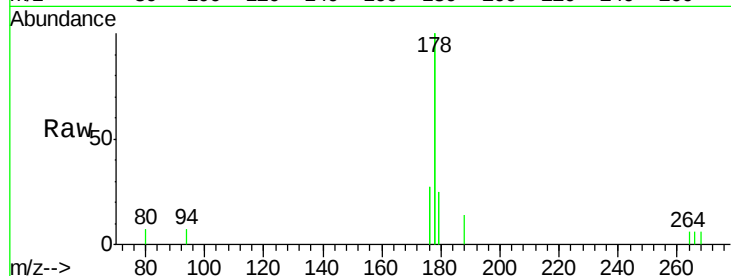
Tgt Ion:178 Resp: 2883

Ion Ratio Lower Upper

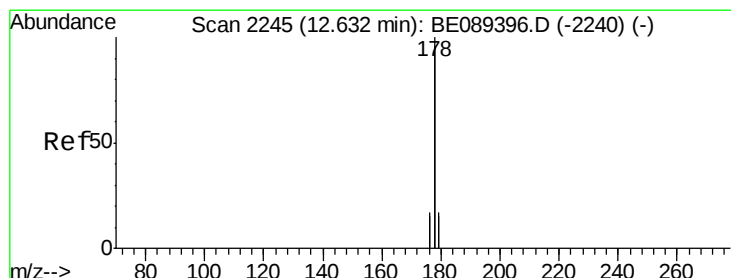
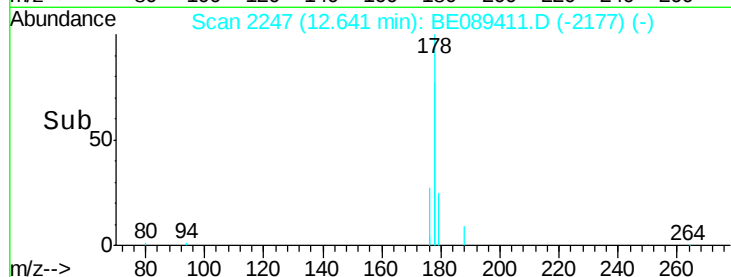
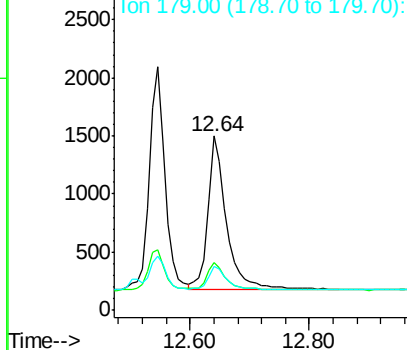
178 100

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: BE089411.D

Acq: 17 Jan 2015 3:13

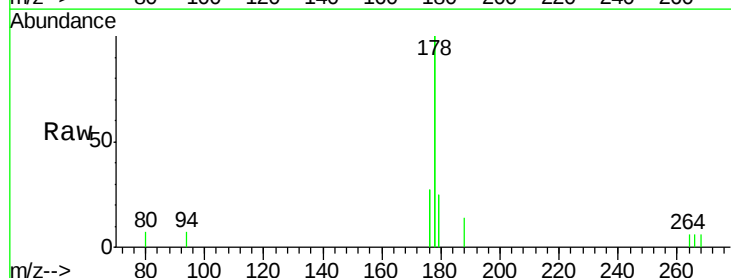
Tgt Ion:178 Resp: 2883

Ion Ratio Lower Upper

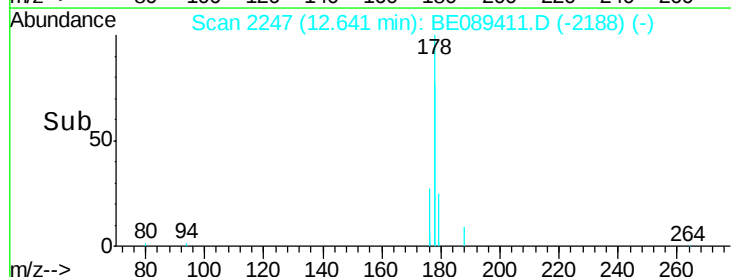
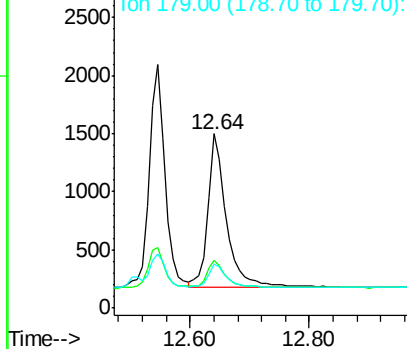
178 100

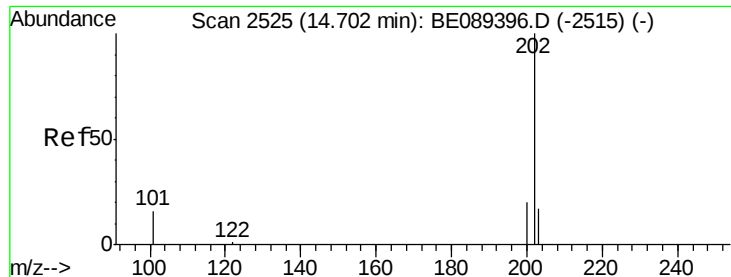
176 17.6 14.2 21.4

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

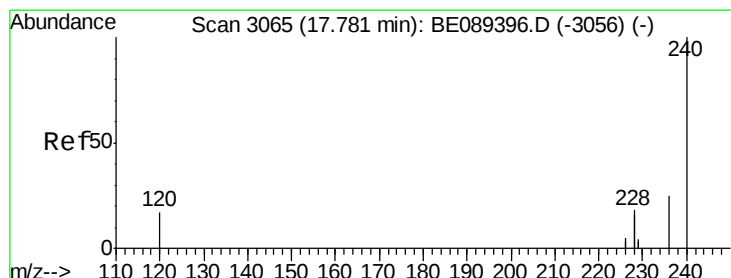
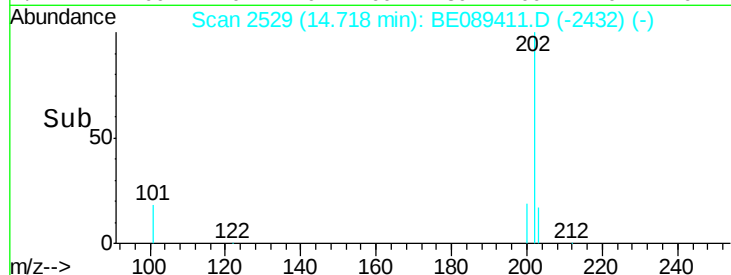
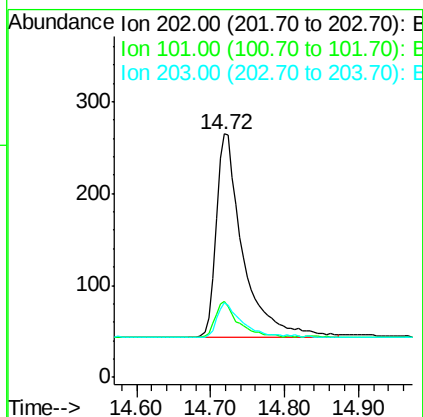
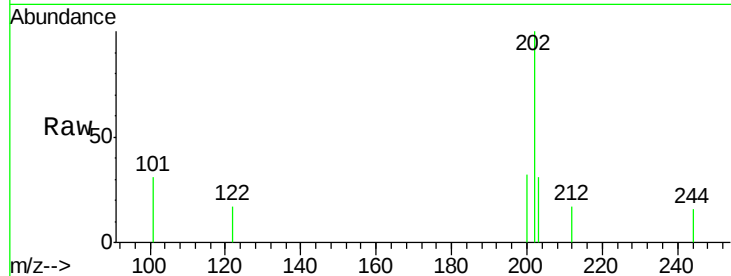




#15
 Fluoranthene
 Concen: 0.06 ng
 RT: 14.72 min Scan# 2529
 Delta R.T. 0.02 min
 Lab File: BE089411.D
 Acq: 17 Jan 2015 3:13

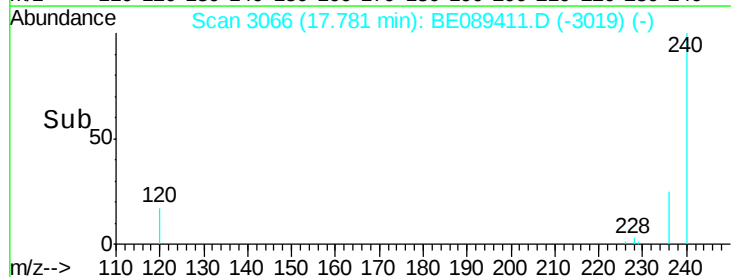
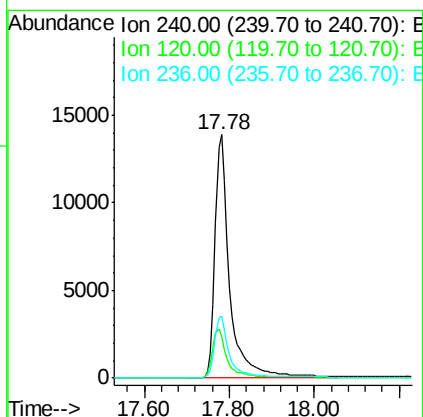
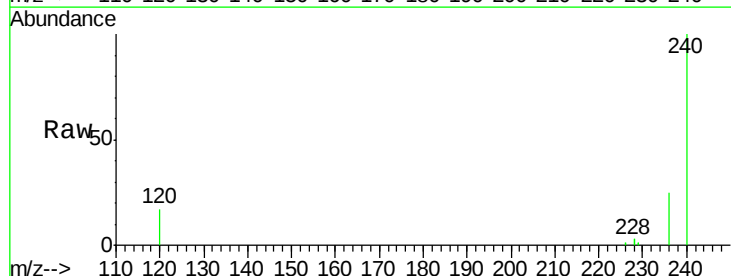
Instrument :
 ClientSampleId :

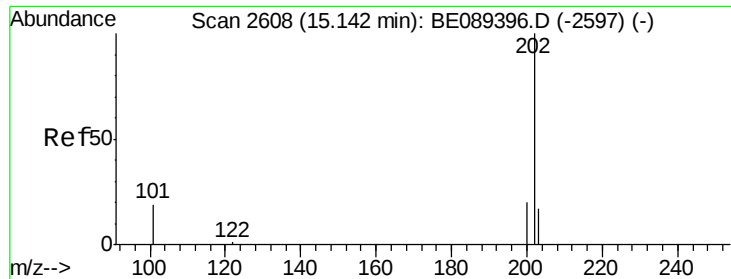
Tgt Ion:202 Resp: 568
 Ion Ratio Lower Upper
 202 100
 101 15.8 13.4 20.2
 203 16.2 13.7 20.5



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 17.78 min Scan# 3066
 Delta R.T. -0.00 min
 Lab File: BE089411.D
 Acq: 17 Jan 2015 3:13

Tgt Ion:240 Resp: 32576
 Ion Ratio Lower Upper
 240 100
 120 17.0 13.4 20.2
 236 25.5 20.2 30.4

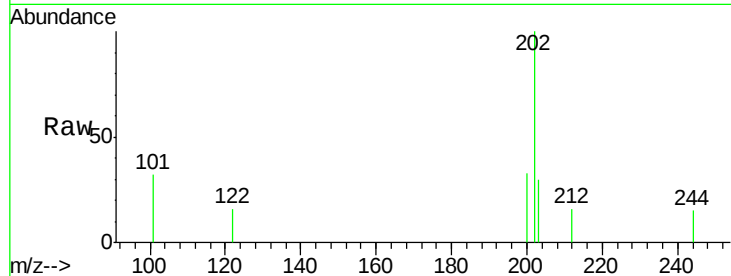




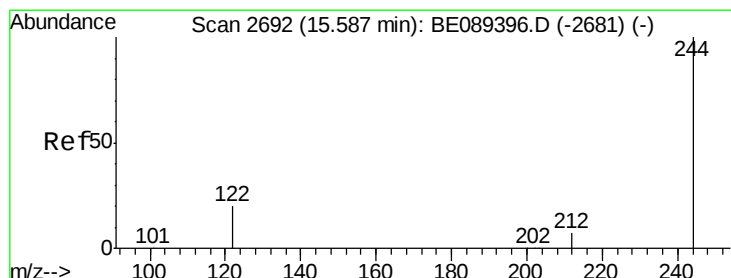
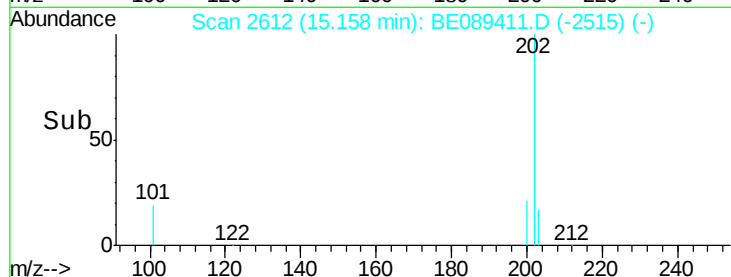
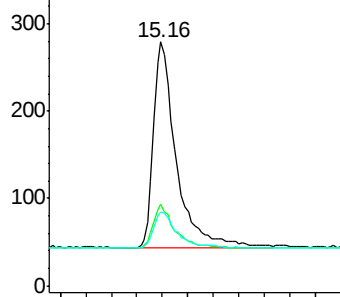
#17
 Pyrene
 Concen: 0.06 ng
 RT: 15.16 min Scan# 2612
 Delta R.T. 0.02 min
 Lab File: BE089411.D
 Acq: 17 Jan 2015 3:13

Instrument :
 ClientSampled :

Tgt Ion:202 Resp: 591
 Ion Ratio Lower Upper
 202 100
 200 19.6 16.1 24.1
 203 18.1 13.7 20.5

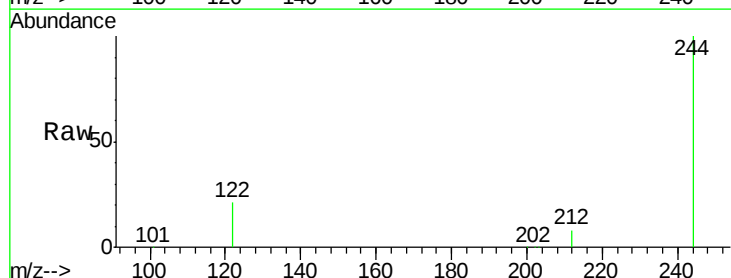


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 200.00 (199.70 to 200.70): E
 Ion 203.00 (202.70 to 203.70): E

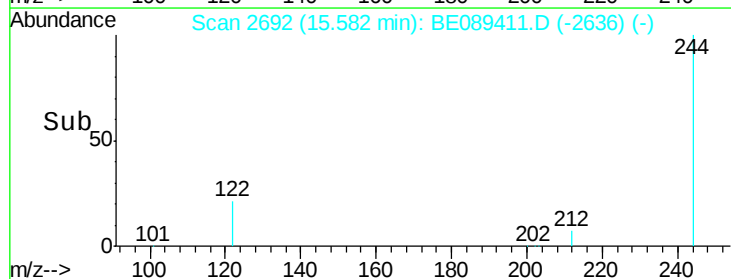
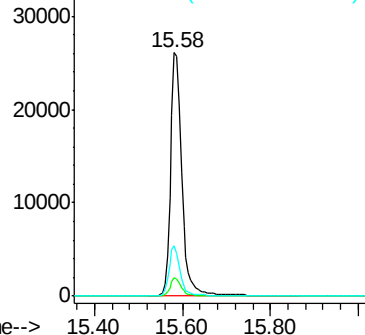


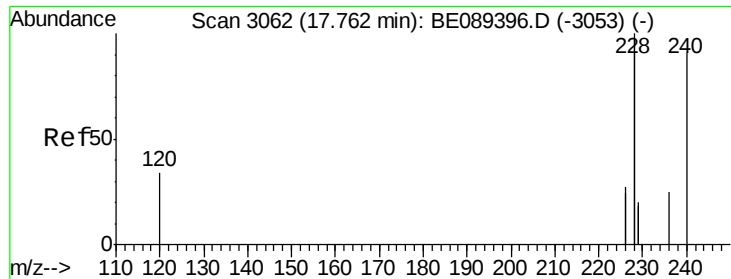
#18
 Terphenyl-d14
 Concen: 9.77 ng
 RT: 15.58 min Scan# 2692
 Delta R.T. -0.01 min
 Lab File: BE089411.D
 Acq: 17 Jan 2015 3:13

Tgt Ion:244 Resp: 45980
 Ion Ratio Lower Upper
 244 100
 212 7.5 7.0 10.4
 122 20.9 17.4 26.2



Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.08 ng

RT: 17.77 min Scan# 3064

Delta R.T. 0.01 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :

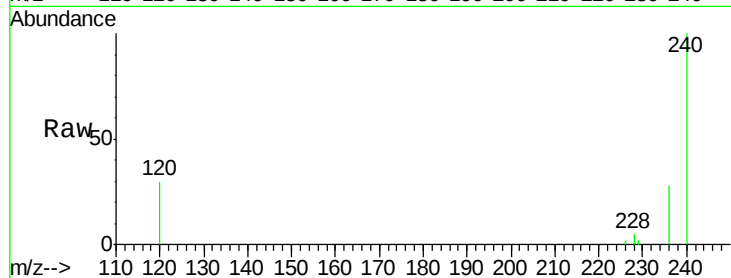
Tgt Ion:228 Resp: 1903

Ion Ratio Lower Upper

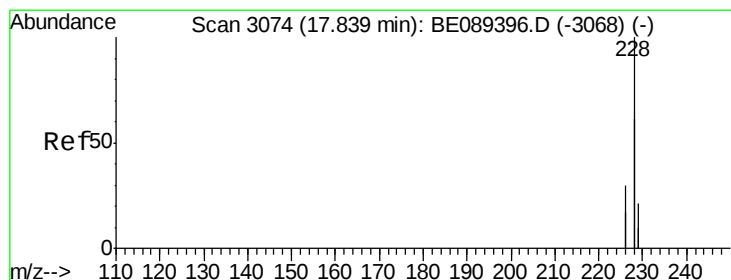
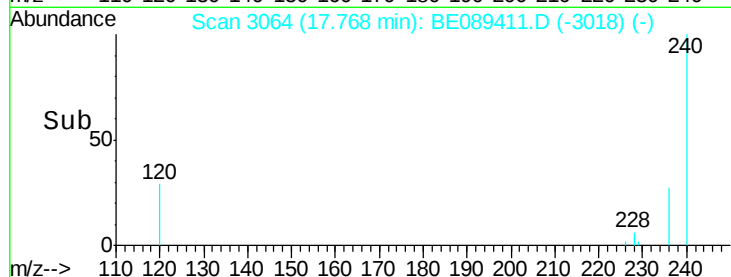
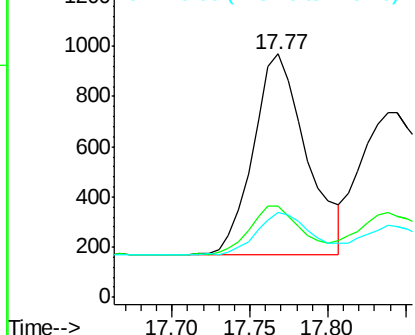
228 100

226 37.7 21.5 32.3#

229 34.6 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: BE089411.D

Acq: 17 Jan 2015 3:13

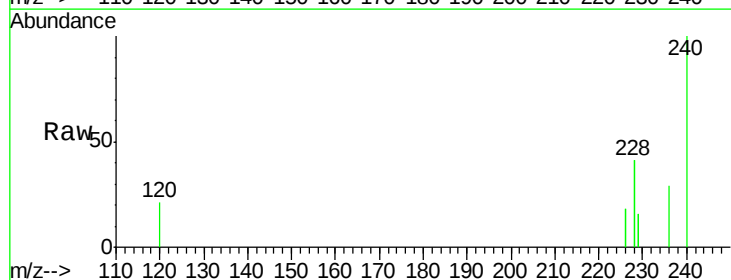
Tgt Ion:228 Resp: 2256

Ion Ratio Lower Upper

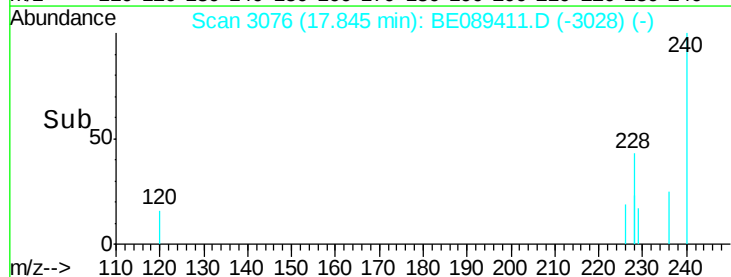
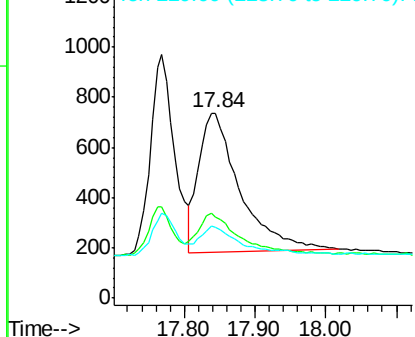
228 100

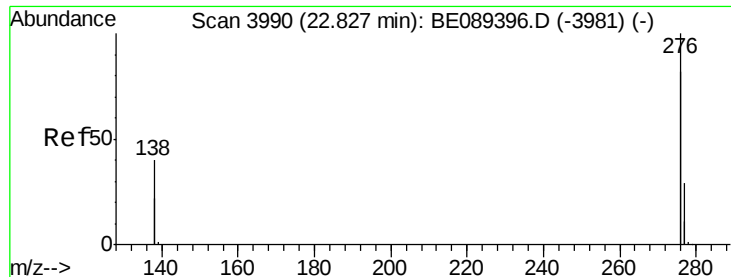
226 43.6 23.8 35.6#

229 38.2 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

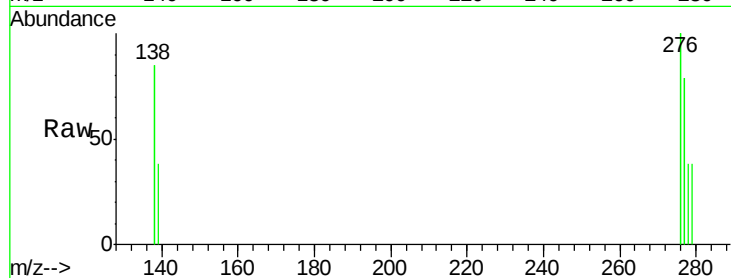
RT: 22.88 min Scan# 3999

Delta R.T. 0.05 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :
ClientSampled :



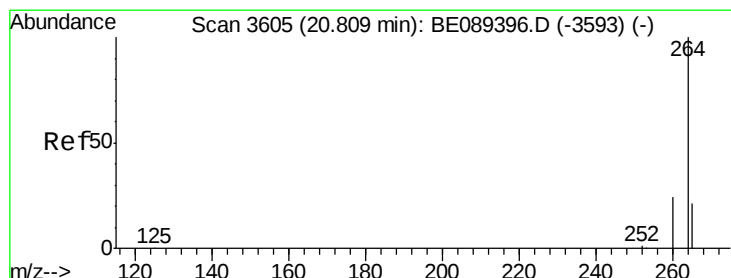
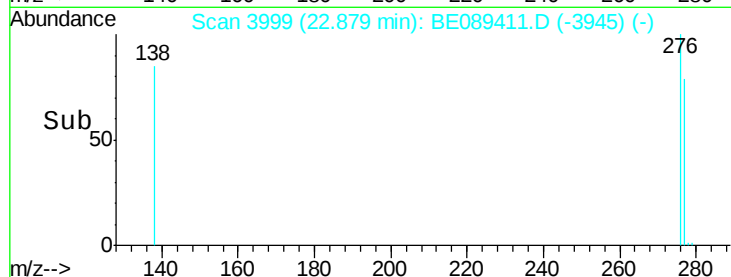
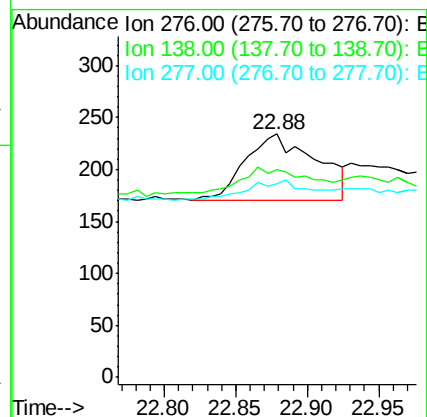
Tgt Ion: 276 Resp: 223

Ion Ratio Lower Upper

276 100

138 39.0 13.8 20.8#

277 26.5 9.8 14.6#



#22

Perylene-d12

Concen: 5.00 ng

RT: 20.81 min Scan# 3606

Delta R.T. 0.00 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

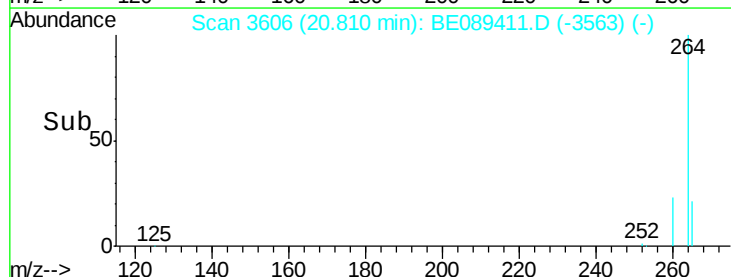
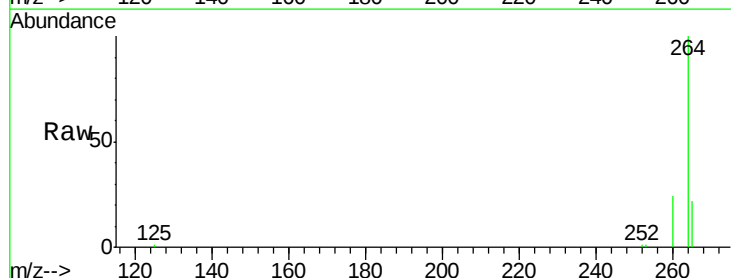
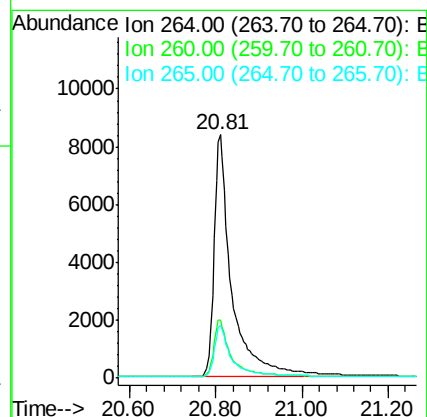
Tgt Ion: 264 Resp: 24337

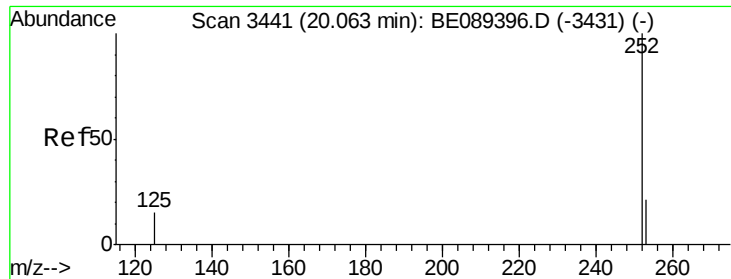
Ion Ratio Lower Upper

264 100

260 23.6 19.1 28.7

265 21.9 17.5 26.3





#23

Benzo(b)fluoranthene

Concen: 0.36 ng

RT: 20.09 min Scan# 3447

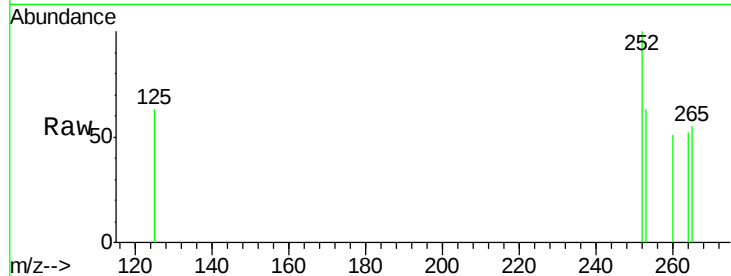
Delta R.T. 0.02 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :



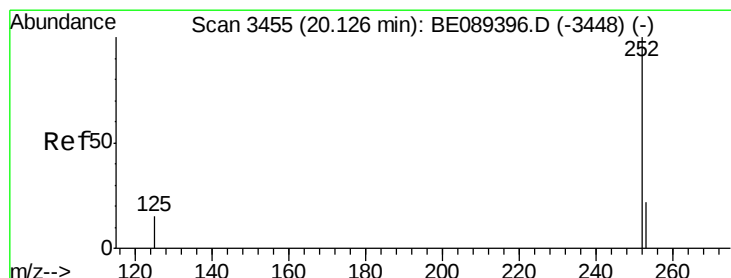
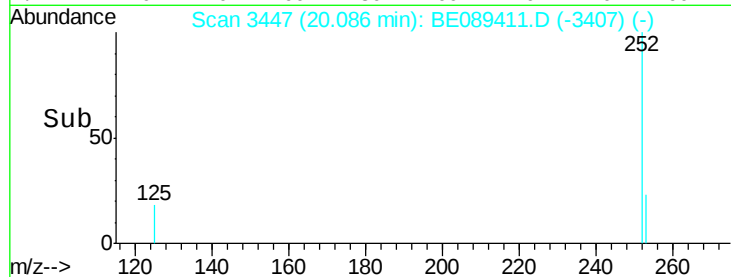
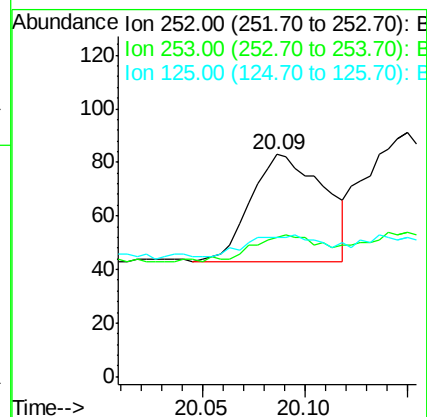
Tgt Ion: 252 Resp: 100

Ion Ratio Lower Upper

252 100

253 62.7 19.1 28.7#

125 62.7 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: BE089411.D

Acq: 17 Jan 2015 3:13

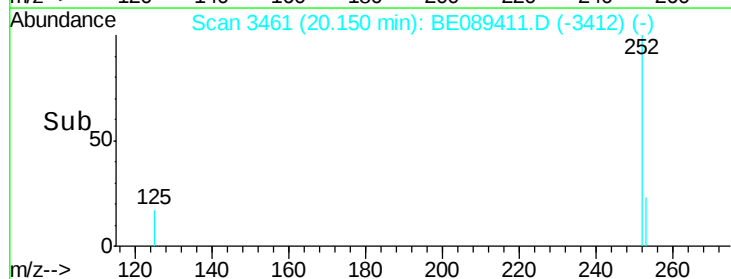
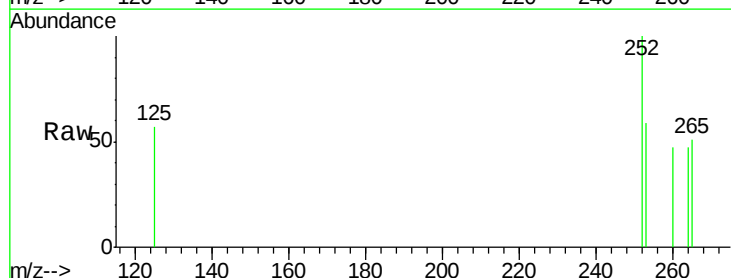
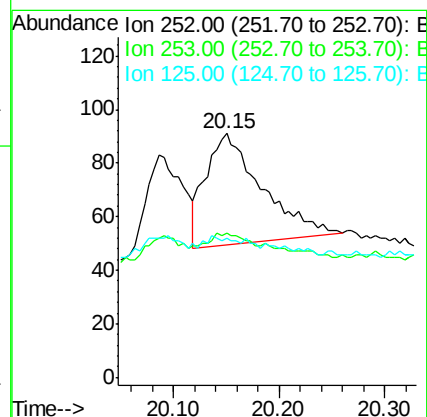
Tgt Ion: 252 Resp: 153

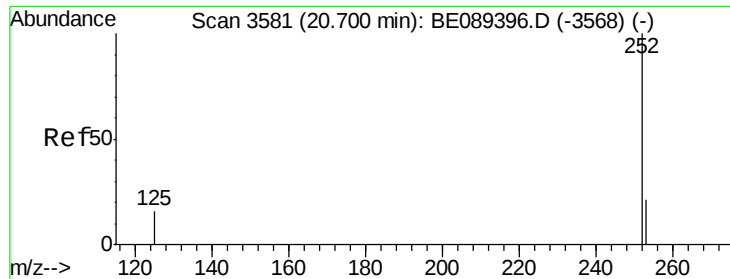
Ion Ratio Lower Upper

252 100

253 59.3 19.4 29.0#

125 57.1 14.0 21.0#





#25

Benzo(a)pyrene

Concen: 0.34 ng

RT: 20.71 min Scan# 3584

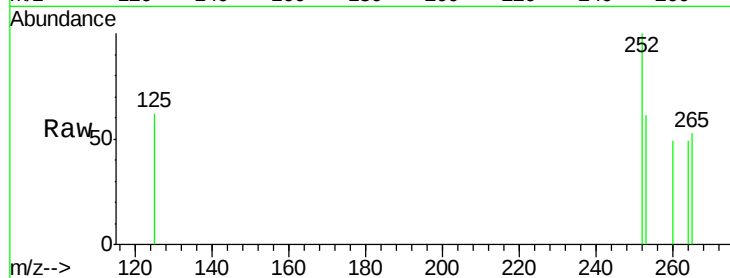
Delta R.T. 0.01 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampled :



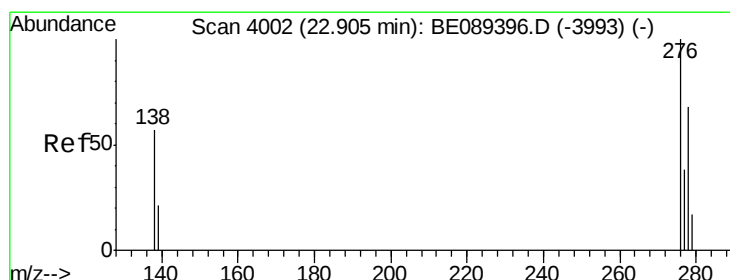
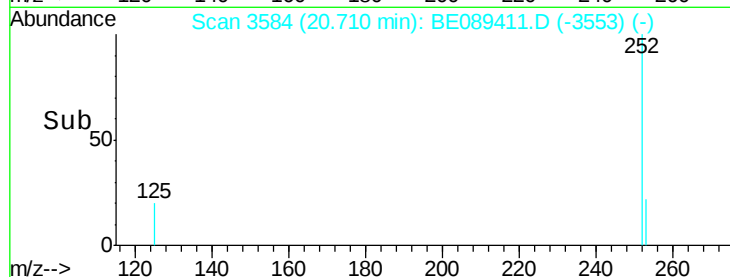
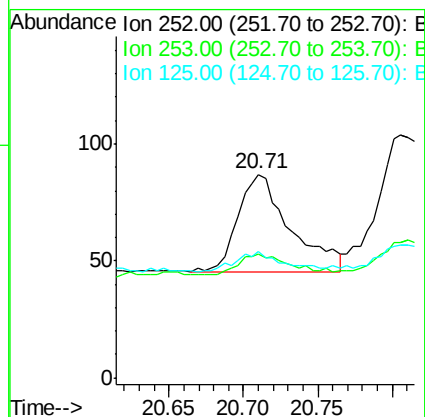
Tgt Ion: 252 Resp: 104

Ion Ratio Lower Upper

252 100

253 60.9 19.5 29.3#

125 62.1 15.4 23.2#



#26

Dibenzo(a,h)anthracene

Concen: 0.39 ng

RT: 22.94 min Scan# 4008

Delta R.T. 0.03 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

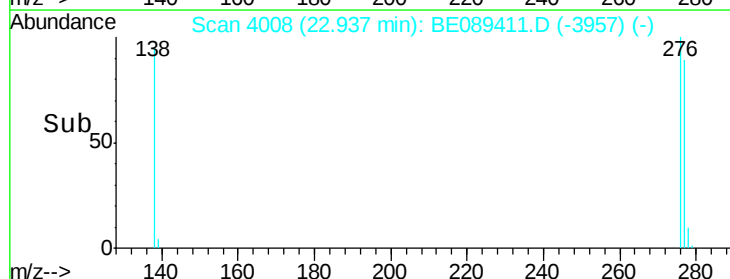
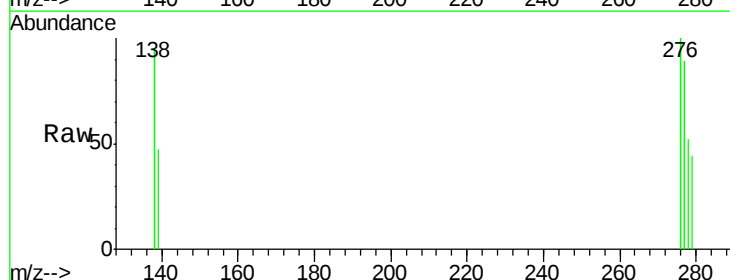
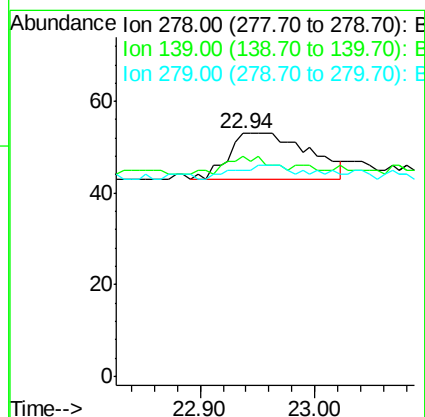
Tgt Ion: 278 Resp: 49

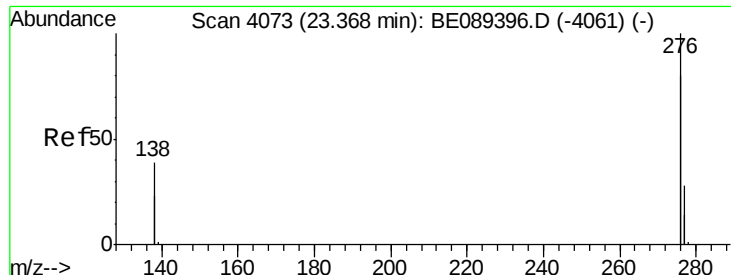
Ion Ratio Lower Upper

278 100

139 90.6 30.5 45.7#

279 84.9 25.8 38.8#





#27

Benzo(g,h,i)perylene

Concen: 0.27 ng

RT: 23.41 min Scan# 4081

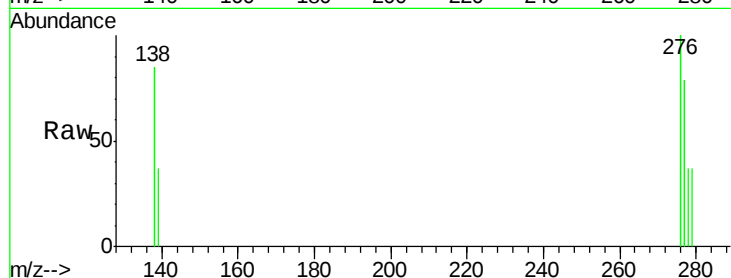
Delta R.T. 0.05 min

Lab File: BE089411.D

Acq: 17 Jan 2015 3:13

Instrument :

ClientSampleId :



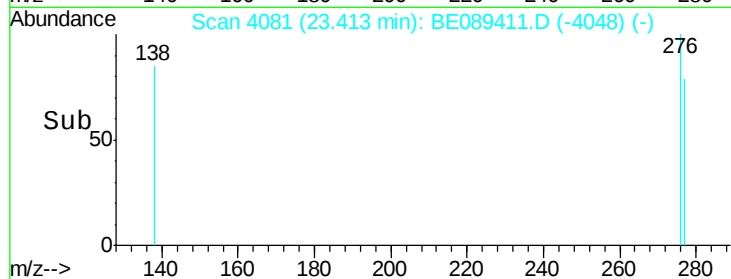
Tgt Ion: 276 Resp: 390

Ion Ratio Lower Upper

276 100

277 79.0 22.8 34.2#

138 84.9 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

