

Data Path : Z:\HPCHEM1\BNA E\DATA\BE022315\
 Data File : BE089663.D
 Acq On : 24 Feb 2015 5:57
 Operator : TP/JJ
 Sample : MDL-07-S
 Misc : MDL-SOIL-0.2/0.4
 ALS Vial : 17 Sample Multiplier: 1

Quant Time: Feb 24 07:04:48 2015

Quant Method : Z:\HPCHEM1\BNA E\METHODS\SIMPAH-BE022315.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Feb 24 03:46:57 2015

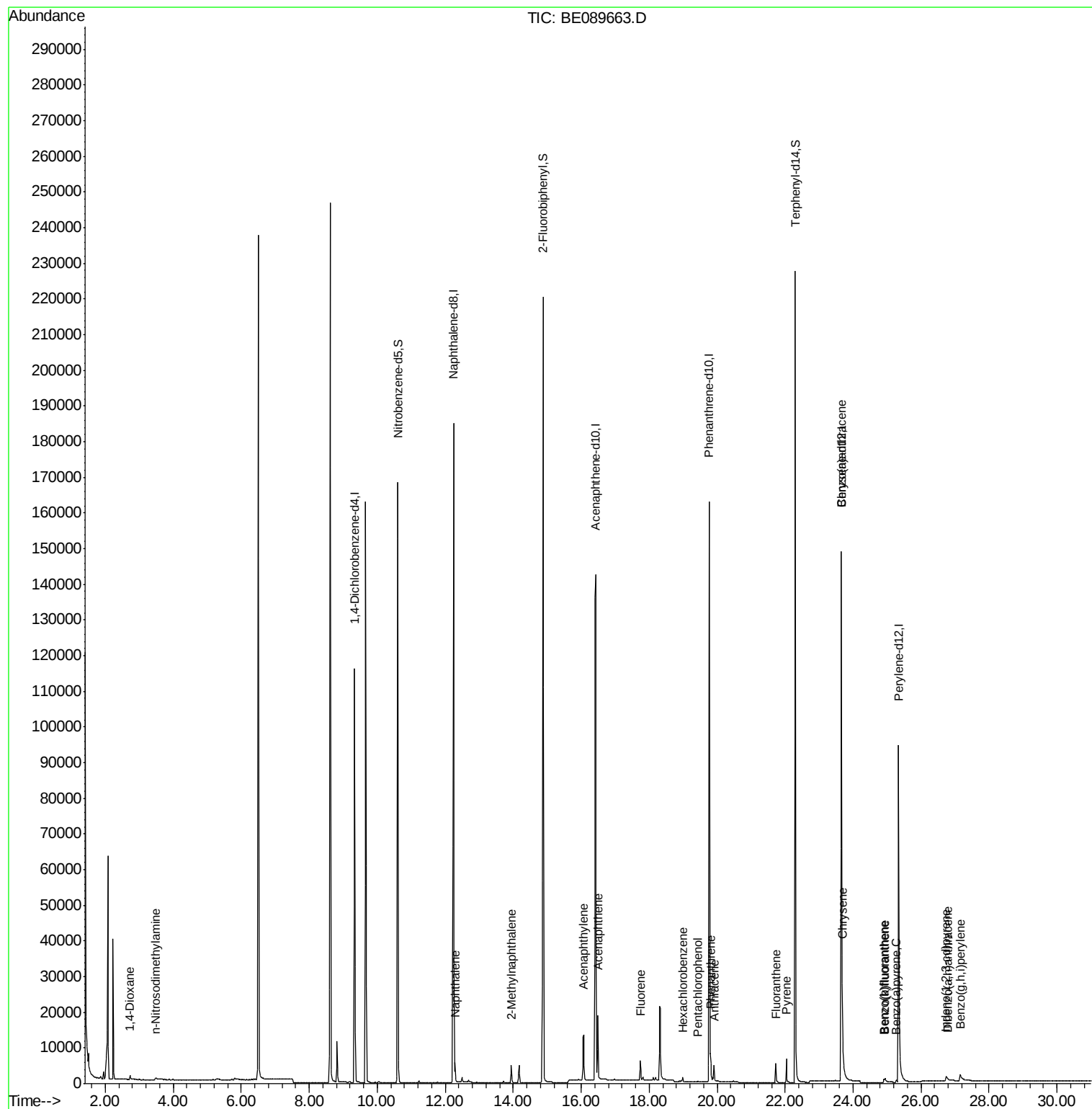
Response via : Initial Calibration

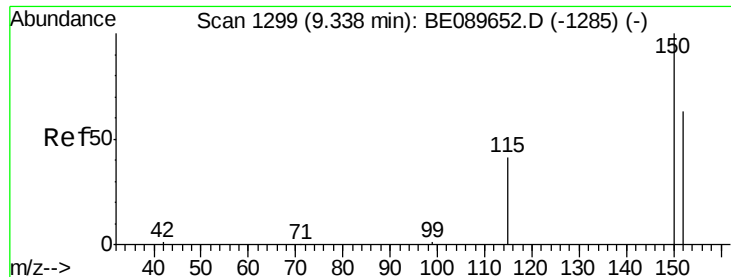
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	9.34	152	51148	5.00	ng	0.00
4) Naphthalene-d8	12.24	136	215575	5.00	ng	0.00
8) Acenaphthene-d10	16.42	164	96578	5.00	ng	0.00
13) Phenanthrene-d10	19.77	188	173616	5.00	ng	0.00
19) Chrysene-d12	23.66	240	134309	5.00	ng	0.00
25) Perylene-d12	25.34	264	105467	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	10.60	82	119286	9.16	ng	0.00
9) 2-Fluorobiphenyl	14.88	172	207499	9.55	ng	0.00
21) Terphenyl-d14	22.30	244	191096	9.96	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	2.72	88	1010	0.15	ng	# 80
3) n-Nitrosodimethylamine	3.48	42	969	0.16	ng	# 85
6) Naphthalene	12.29	128	6872	0.16	ng	97
7) 2-Methylnaphthalene	13.95	142	3588	0.14	ng	96
10) Acenaphthylene	16.07	152	19799	0.14	ng	99
11) Acenaphthene	16.49	154	3447	0.15	ng	96
12) Fluorene	17.74	166	3850	0.15	ng	100
14) Hexachlorobenzene	18.99	284	783	0.17	ng	97
15) Pentachlorophenol	19.44	266	54	0.25	ng	# 79
16) Phenanthrene	19.81	178	6173	0.16	ng	97
17) Anthracene	19.91	178	4804	0.15	ng	100
18) Fluoranthene	21.72	202	4532	0.14	ng	99
20) Pyrene	22.04	202	4962	0.15	ng	99
22) Benzo(a)anthracene	23.64	228	14043	0.15	ng	98
23) Chrysene	23.68	228	22571	0.18	ng	94
24) Indeno(1,2,3-cd)pyrene	26.73	276	3855	0.40	ng	# 88
26) Benzo(b)fluoranthene	24.91	252	884	0.42	ng	# 87
27) Benzo(k)fluoranthene	24.94	252	2775m	0.12	ng	
28) Benzo(a)pyrene	25.27	252	1028	0.37	ng	# 87
29) Dibenzo(a,h)anthracene	26.77	278	572	0.39	ng	# 71
30) Benzo(g,h,i)perylene	27.15	276	5807	0.29	ng	# 85

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 9.34 min Scan# 1299

Delta R.T. 0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

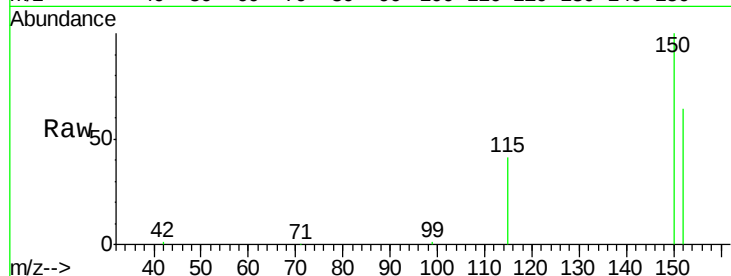
Tot Ion:152 Resp: 51148

Ion Ratio Lower Upper

152 100

150 155.1 127.0 190.6

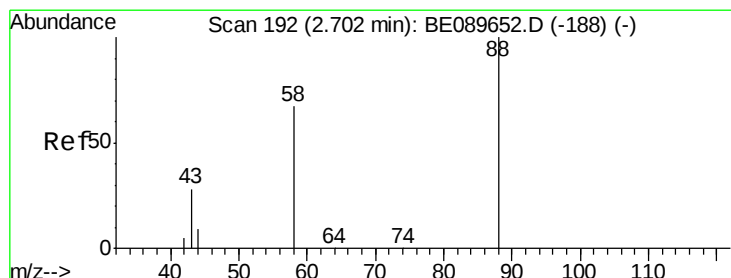
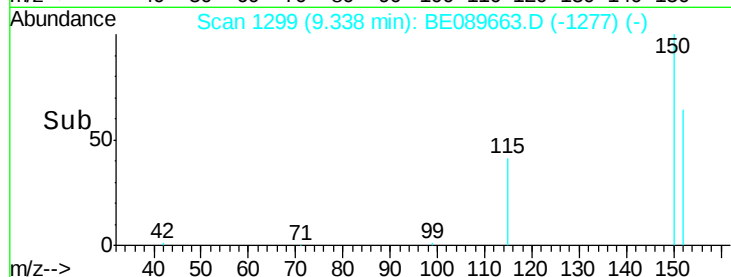
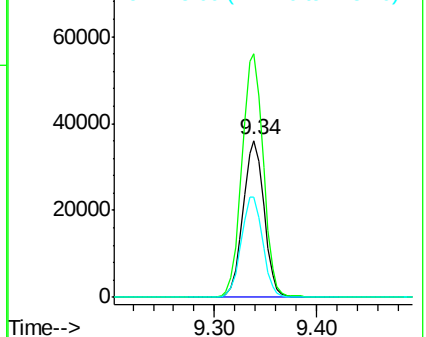
115 63.7 52.4 78.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 0.15 ng

RT: 2.72 min Scan# 195

Delta R.T. 0.02 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

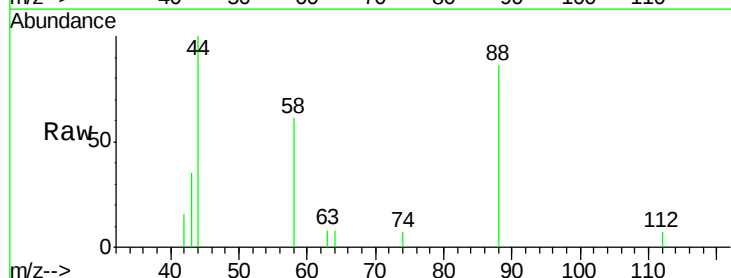
Tgt Ion: 88 Resp: 1010

Ion Ratio Lower Upper

88 100

58 79.7 61.8 92.6

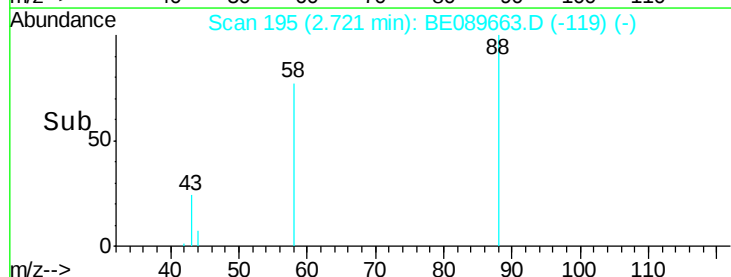
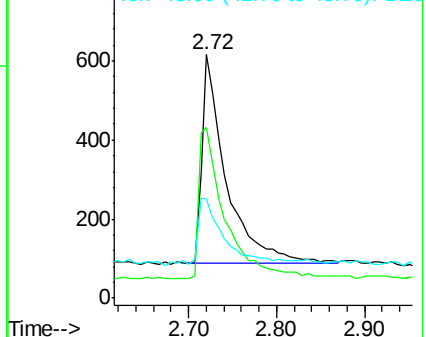
43 0.0 26.4 39.6

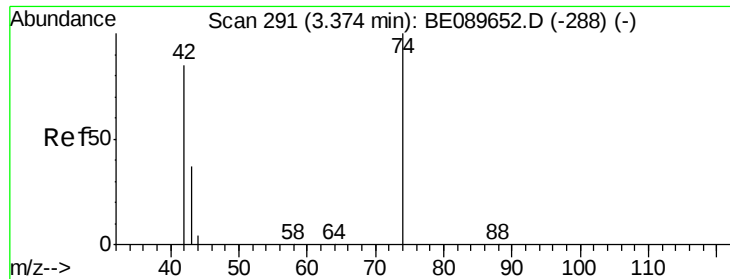


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

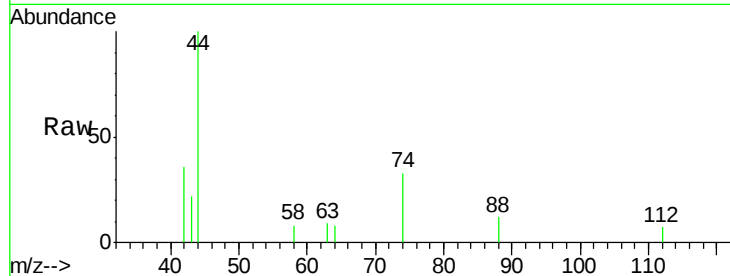




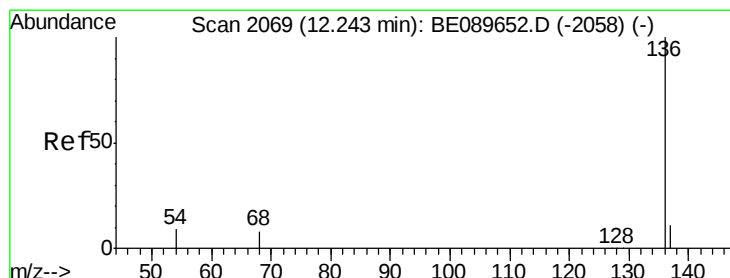
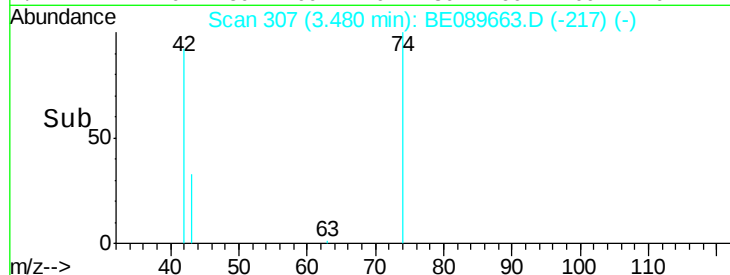
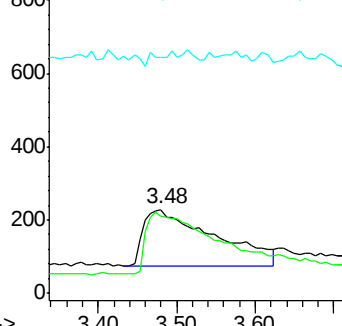
#3

n-Nitrosodimethylamine
 Concen: 0.16 ng
 RT: 3.48 min Scan# 307
 Delta R.T. 0.11 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

Tot Ion: 42 Resp: 969
 Ion Ratio Lower Upper
 42 100
 74 132.5 92.5 138.7
 44 3.3 4.9 7.3#



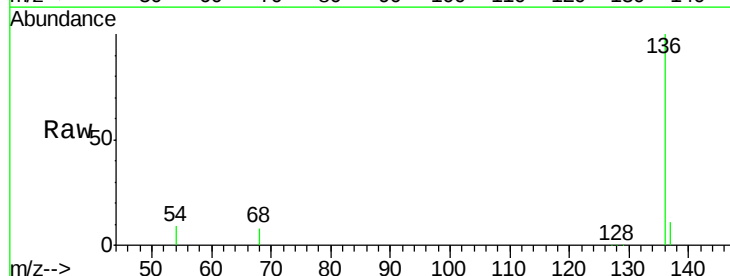
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



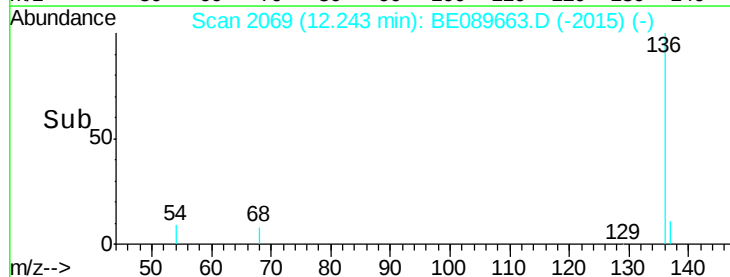
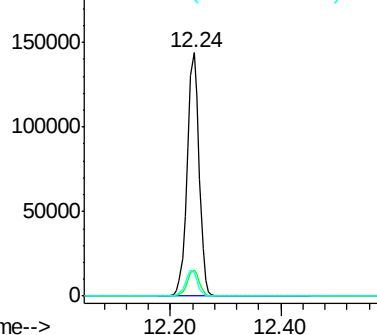
#4

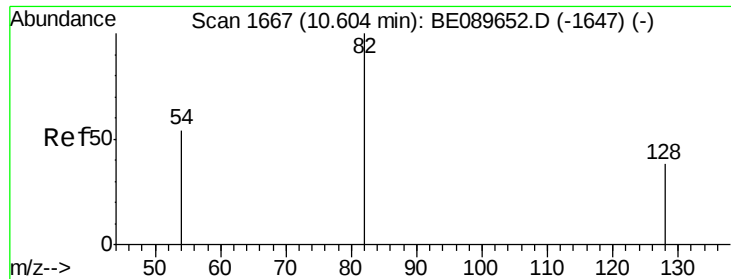
Naphthalene-d8
 Concen: 5.00 ng
 RT: 12.24 min Scan# 2069
 Delta R.T. -0.00 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

Tgt Ion: 136 Resp: 215575
 Ion Ratio Lower Upper
 136 100
 137 10.9 8.7 13.1
 54 9.5 7.5 11.3



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





#5

Nitrobenzene-d5

Concen: 9.16 ng

RT: 10.60 min Scan# 1667

Delta R.T. 0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

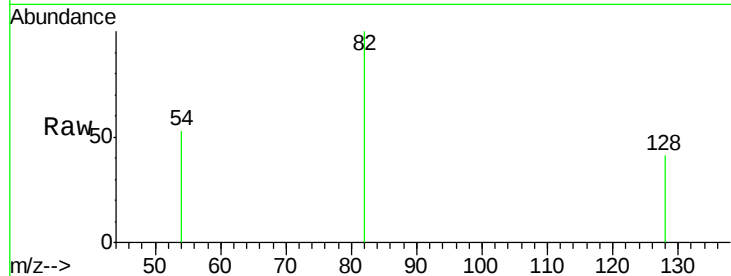
Tot Ion: 82 Resp: 119286

Ion Ratio Lower Upper

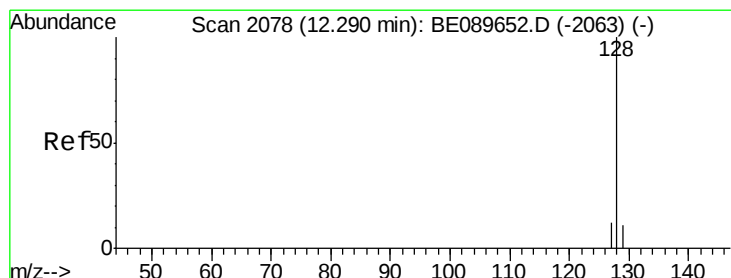
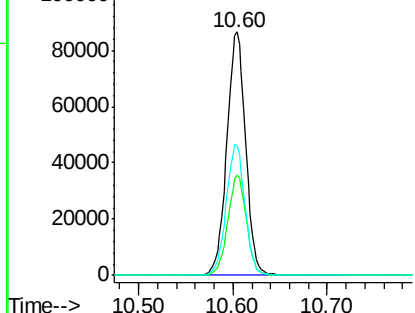
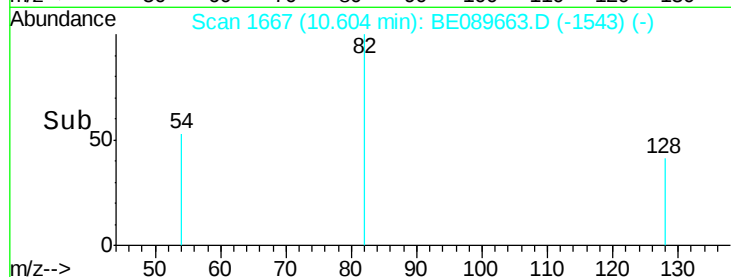
82 100

128 41.3 31.0 46.4

54 53.5 43.8 65.8



Abundance Ion 82.00 (81.70 to 82.70): BE0
Ion 128.00 (127.70 to 128.70): BE0
Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.16 ng

RT: 12.29 min Scan# 2078

Delta R.T. -0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

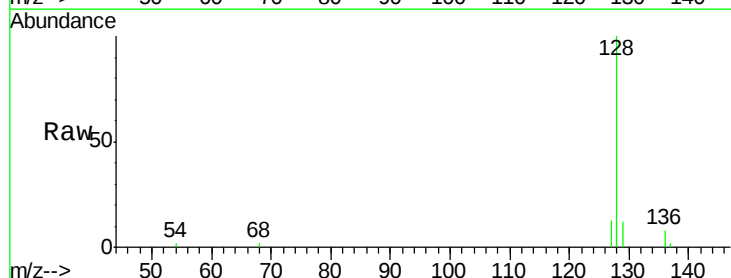
Tgt Ion: 128 Resp: 6872

Ion Ratio Lower Upper

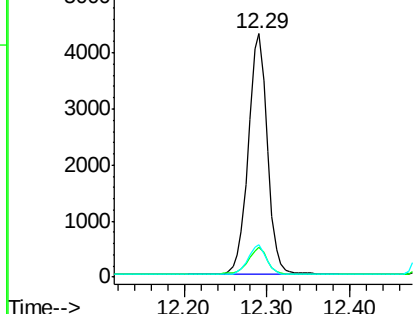
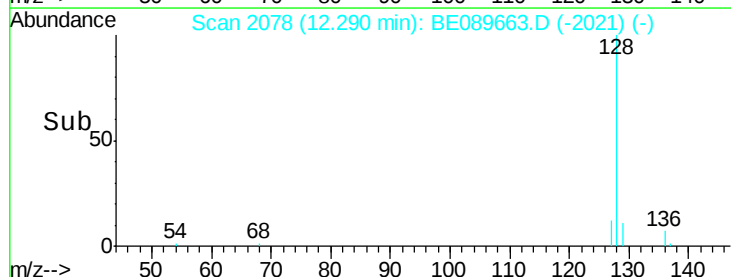
128 100

129 12.4 8.8 13.2

127 13.2 9.8 14.6



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 13.95 min Scan# 2417

Delta R.T. 0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

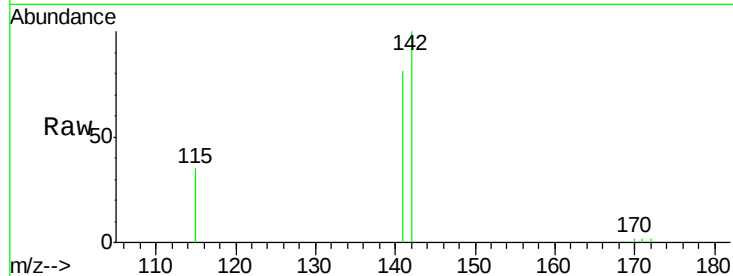
Tot Ion:142 Resp: 3588

Ion Ratio Lower Upper

142 100

141 81.0 68.6 103.0

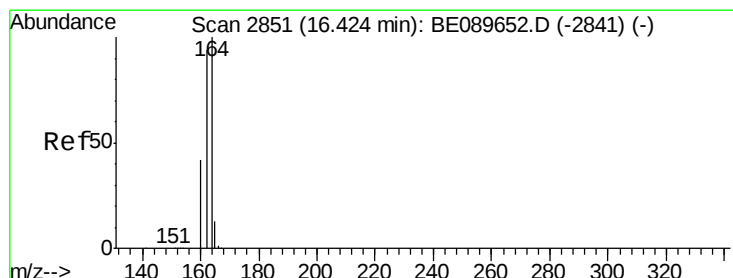
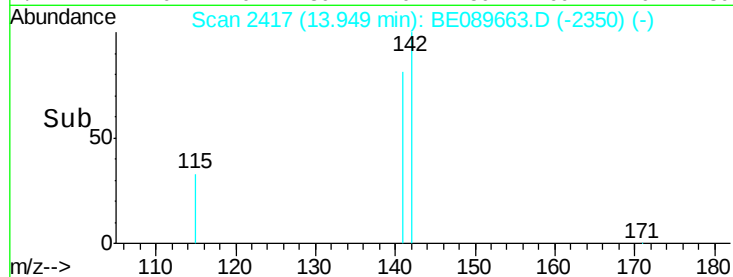
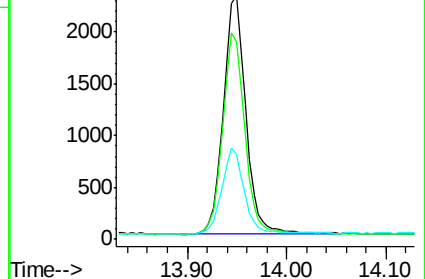
115 35.0 29.0 43.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 16.42 min Scan# 2851

Delta R.T. 0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

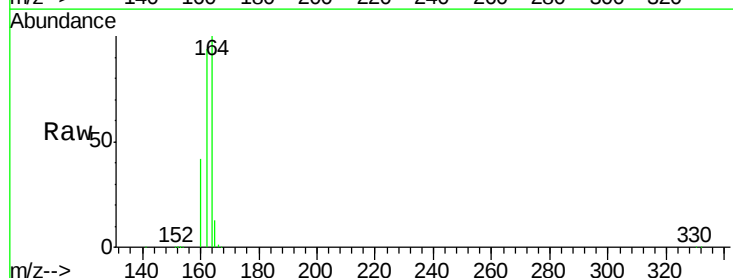
Tgt Ion:164 Resp: 96578

Ion Ratio Lower Upper

164 100

162 93.9 75.4 113.2

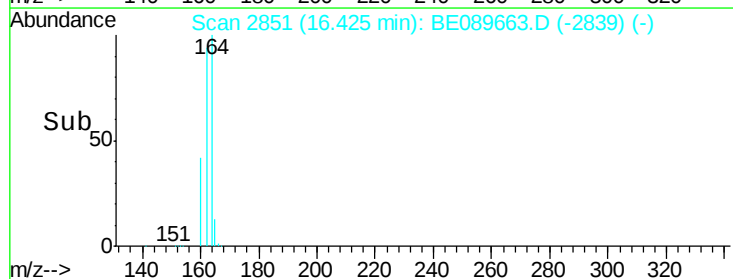
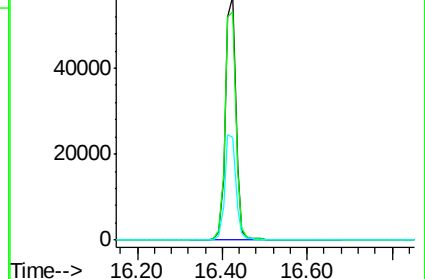
160 42.1 33.7 50.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

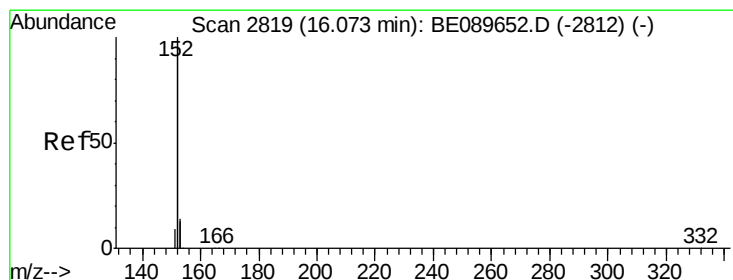
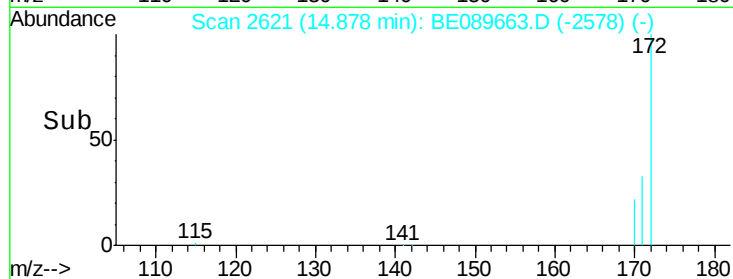
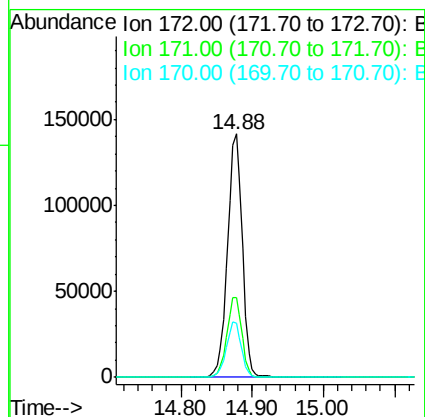
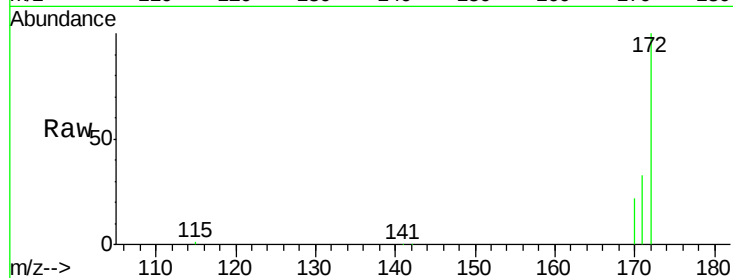
Ion 160.00 (159.70 to 160.70): E





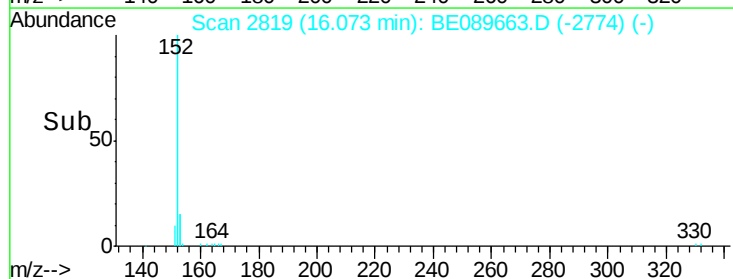
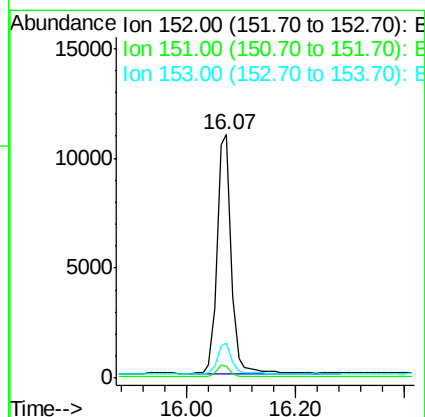
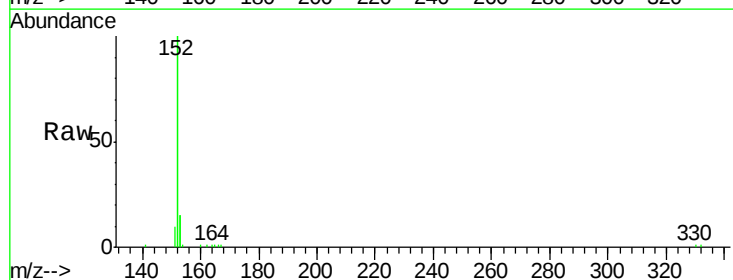
#9
 2-Fluorobiphenyl
 Concen: 9.55 ng
 RT: 14.88 min Scan# 2621
 Delta R.T. 0.00 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

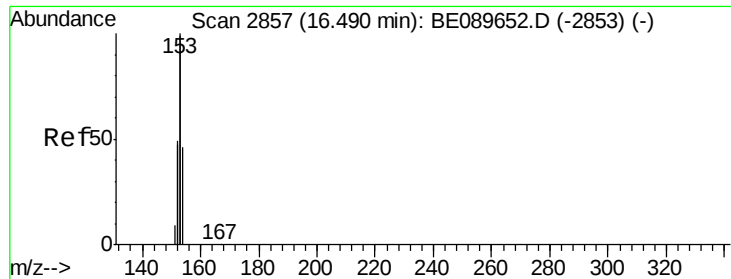
Tot Ion:172	Resp:	207499
Ion Ratio	Lower	Upper
172	100	
171	33.0	26.2 39.4
170	22.1	17.7 26.5



#10
 Acenaphthylene
 Concen: 0.14 ng
 RT: 16.07 min Scan# 2819
 Delta R.T. 0.00 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

Tgt Ion:152	Resp:	19799
Ion Ratio	Lower	Upper
152	100	
151	5.0	3.8 5.6
153	12.4	10.4 15.6





#11

Acenaphthene

Concen: 0.15 ng

RT: 16.49 min Scan# 2857

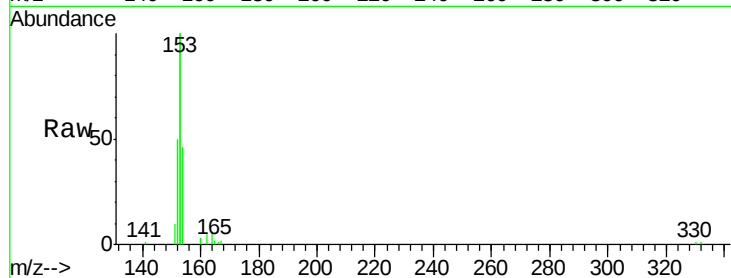
Delta R.T. 0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

Tot Ion:154 Resp: 3447

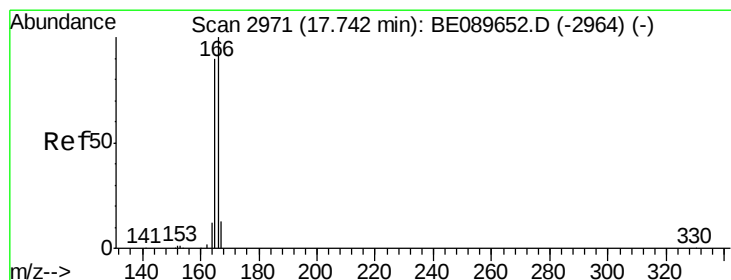
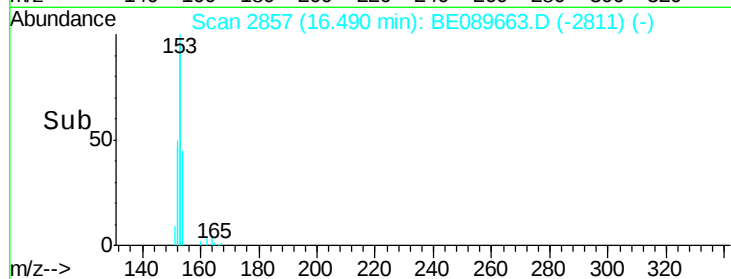
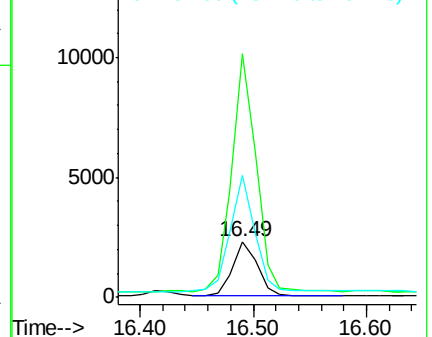
Ion	Ratio	Lower	Upper
154	100		
153	436.7	343.0	514.4
152	215.3	165.8	248.8



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



#12

Fluorene

Concen: 0.15 ng

RT: 17.74 min Scan# 2971

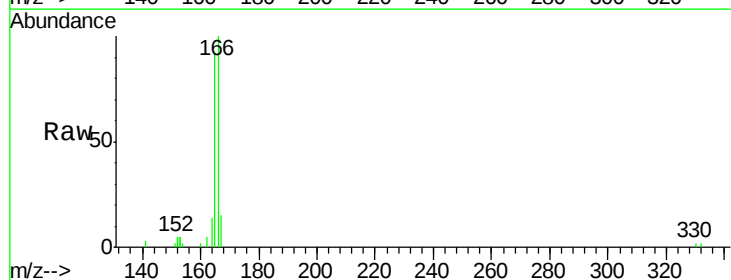
Delta R.T. 0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

Tgt Ion:166 Resp: 3850

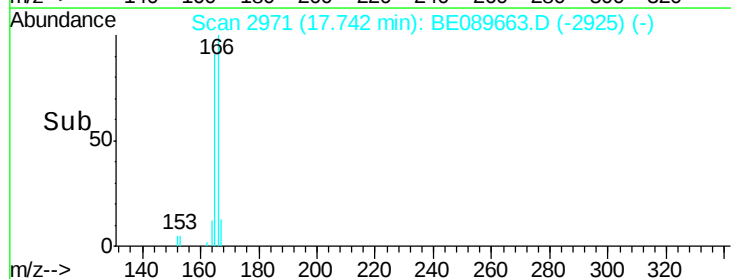
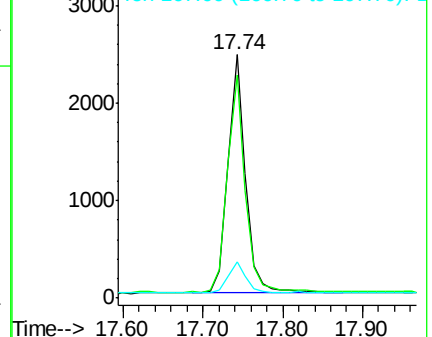
Ion	Ratio	Lower	Upper
166	100		
165	92.2	73.6	110.4
167	13.5	10.5	15.7

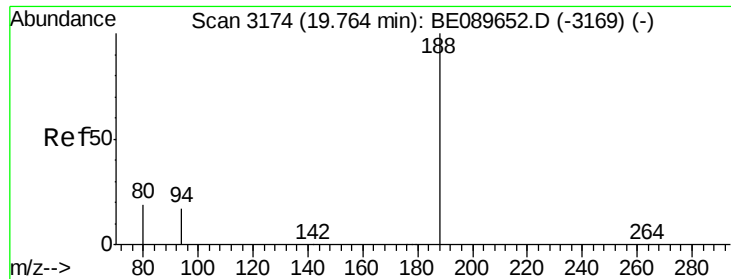


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

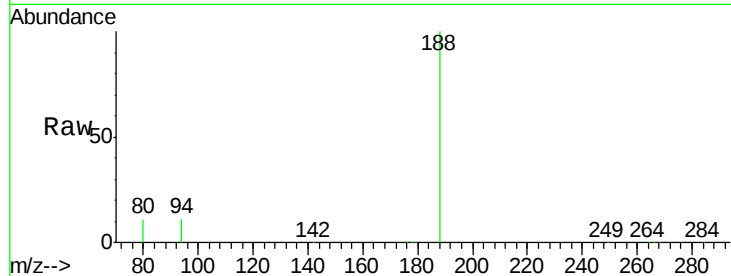
Ion 167.00 (166.70 to 167.70): E





#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 19.77 min Scan# 3175
Delta R.T. 0.01 min
Lab File: BE089663.D
Acq: 24 Feb 2015 5:57

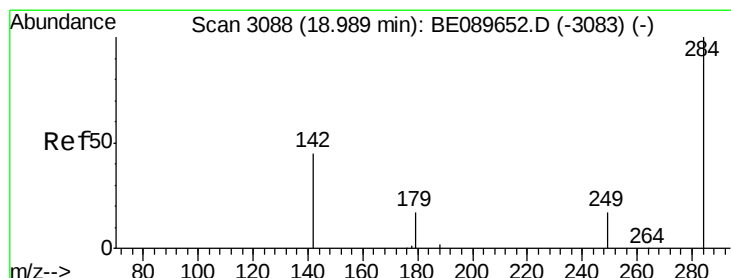
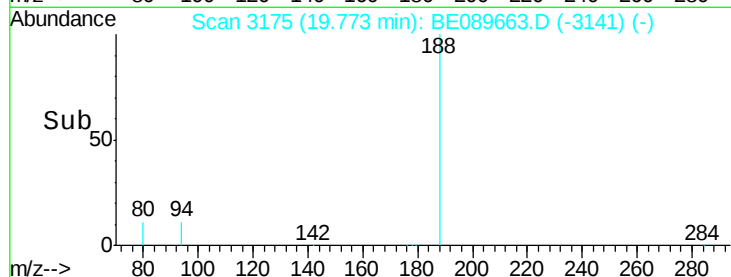
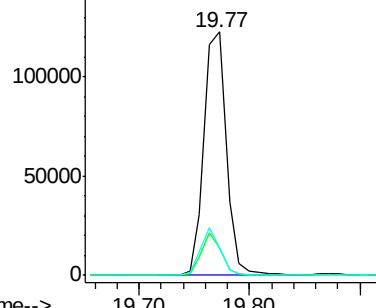
Tot Ion	Ratio	Lower	Upper
188	100		
94	11.1	13.8	20.8#
80	11.1	15.0	22.6#



Abundance Ion 188.00 (187.70 to 188.70): E

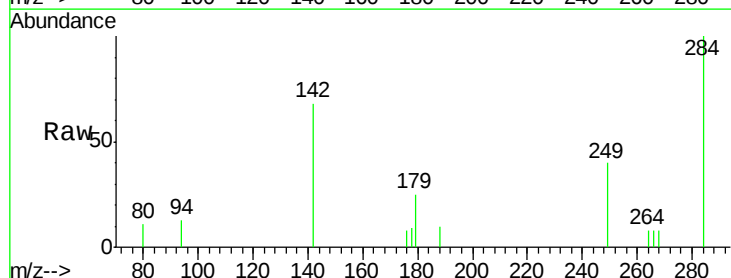
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14
Hexachlorobenzene
Concen: 0.17 ng
RT: 18.99 min Scan# 3088
Delta R.T. -0.00 min
Lab File: BE089663.D
Acq: 24 Feb 2015 5:57

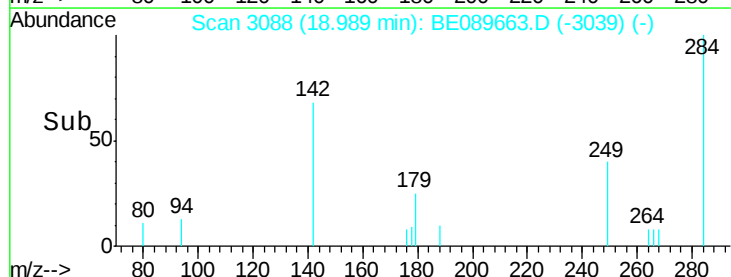
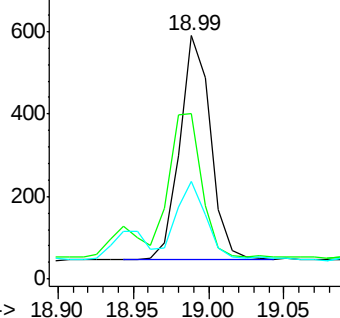
Tgt Ion	Ratio	Lower	Upper
284	100		
142	67.7	55.0	82.6
249	36.3	26.1	39.1

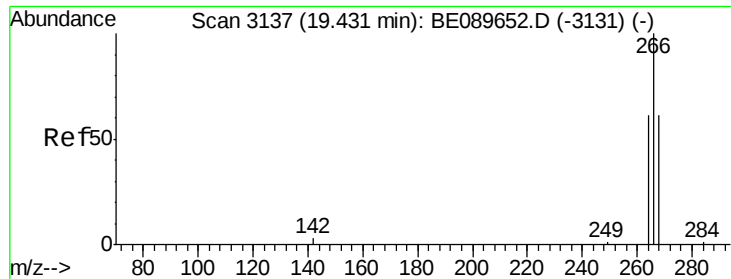


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

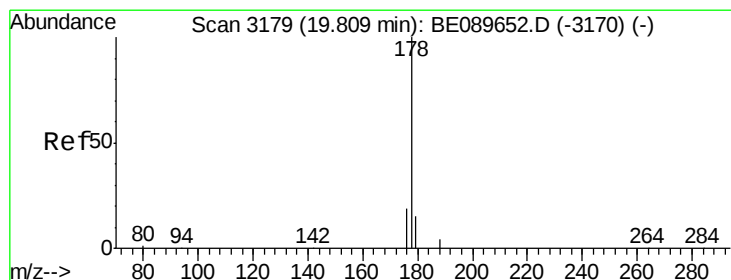
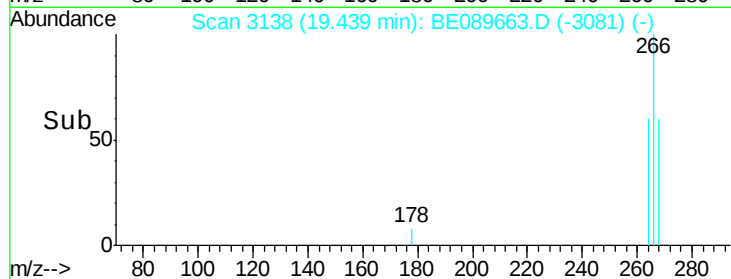
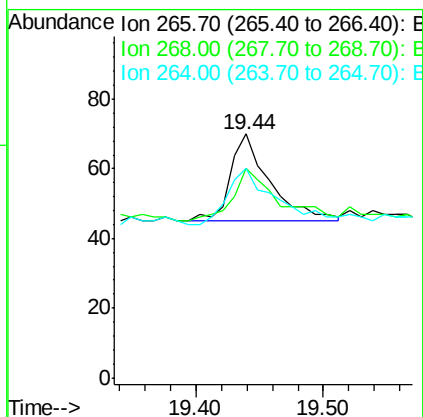
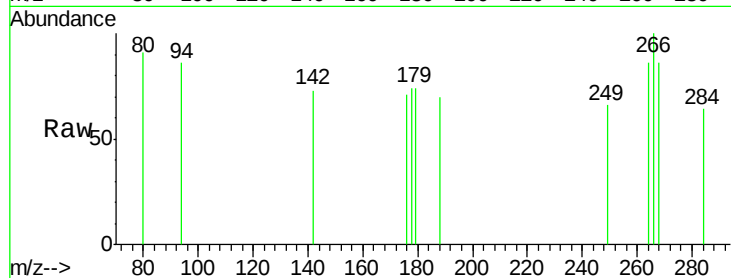
Ion 249.00 (248.70 to 249.70): E





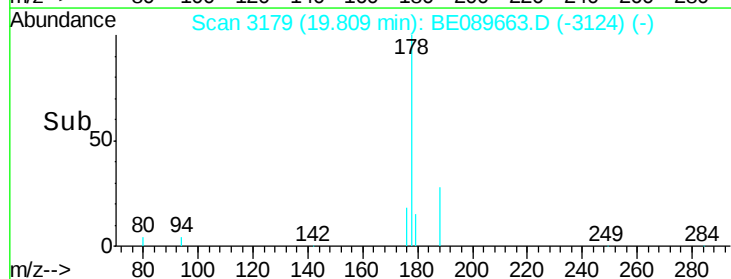
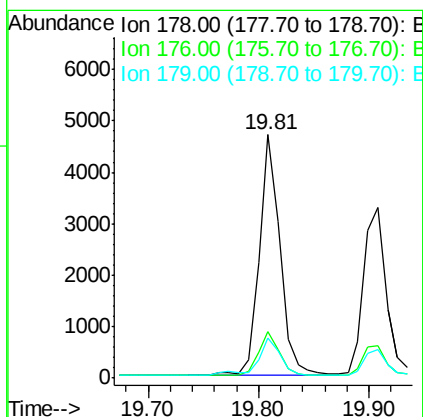
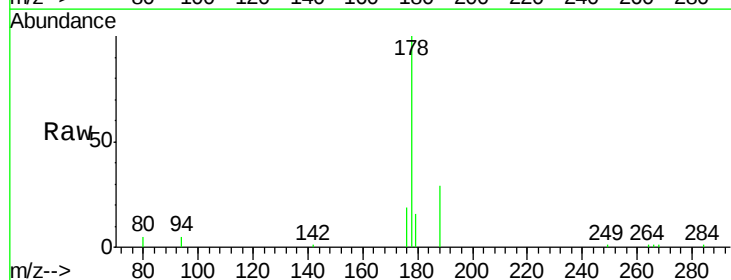
#15
 Pentachlorophenol
 Concen: 0.25 ng
 RT: 19.44 min Scan# 3138
 Delta R.T. 0.01 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

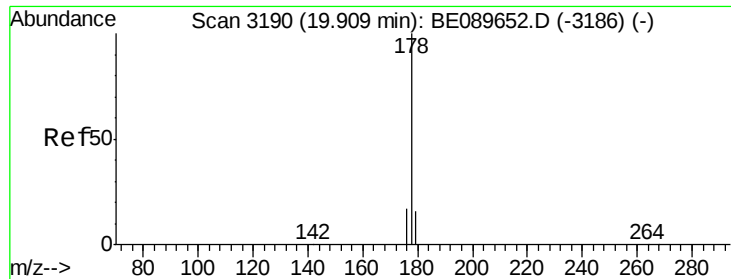
Tot Ion:266 Resp: 54
 Ion Ratio Lower Upper
 266 100
 268 85.7 54.7 82.1#
 264 85.7 55.4 83.0#



#16
 Phenanthrene
 Concen: 0.16 ng
 RT: 19.81 min Scan# 3179
 Delta R.T. -0.00 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

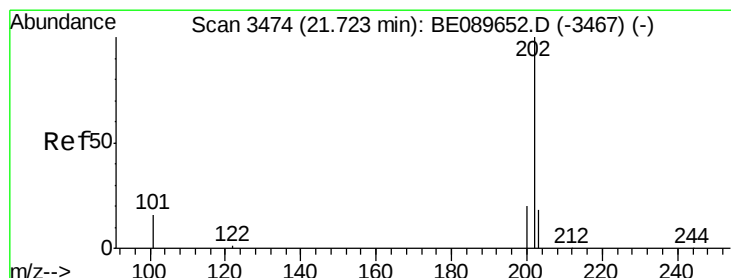
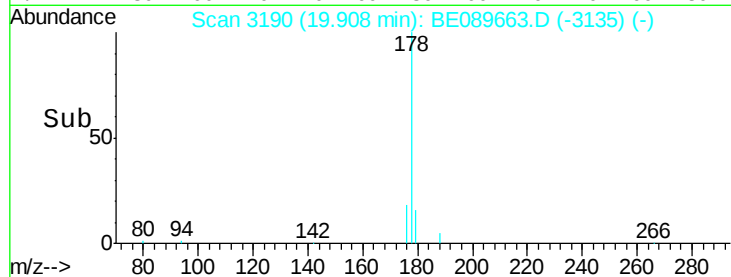
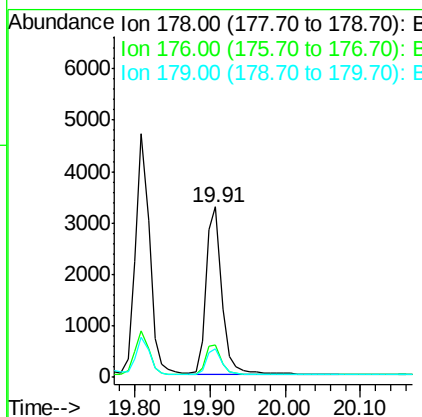
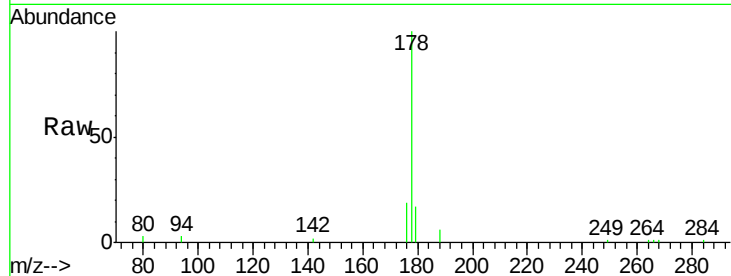
Tgt Ion:178 Resp: 6173
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.3 22.9
 179 17.2 12.3 18.5





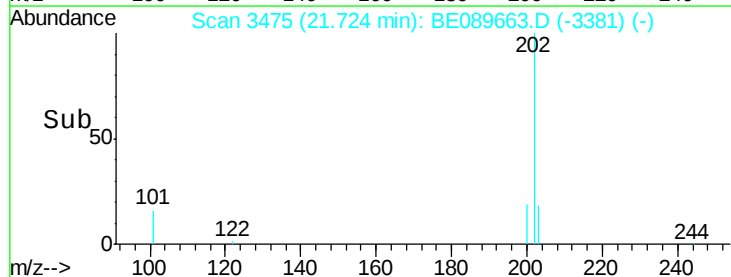
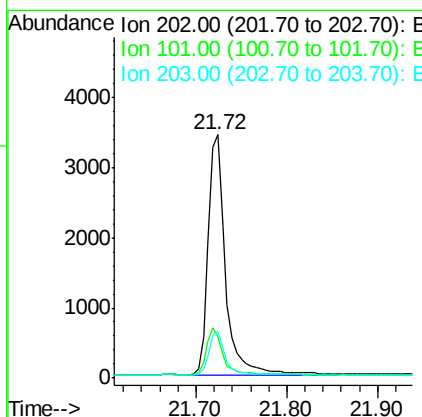
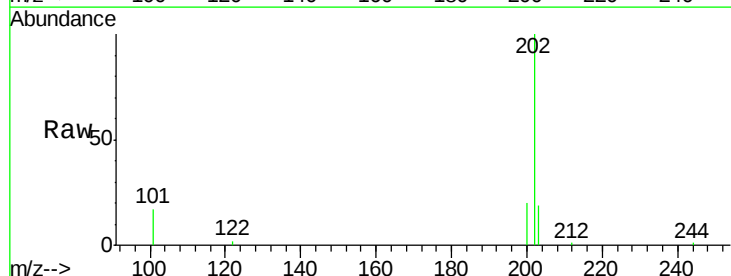
#17
 Anthracene
 Concen: 0.15 ng
 RT: 19.91 min Scan# 3190
 Delta R.T. -0.00 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

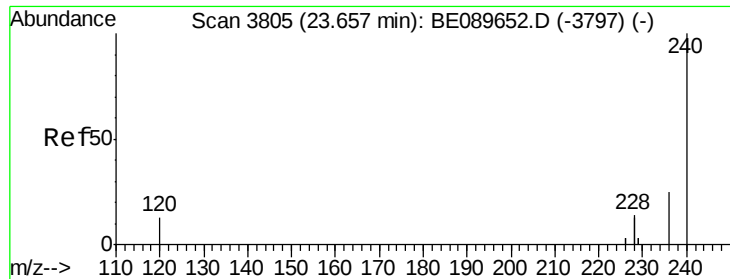
Tot Ion:178 Resp: 4804
 Ion Ratio Lower Upper
 178 100
 176 17.9 14.3 21.5
 179 14.9 12.1 18.1



#18
 Fluoranthene
 Concen: 0.14 ng
 RT: 21.72 min Scan# 3475
 Delta R.T. 0.00 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

Tgt Ion:202 Resp: 4532
 Ion Ratio Lower Upper
 202 100
 101 18.4 14.9 22.3
 203 16.8 13.7 20.5





#19

Chrysene-d12

Concen: 5.00 ng

RT: 23.66 min Scan# 3806

Delta R.T. -0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

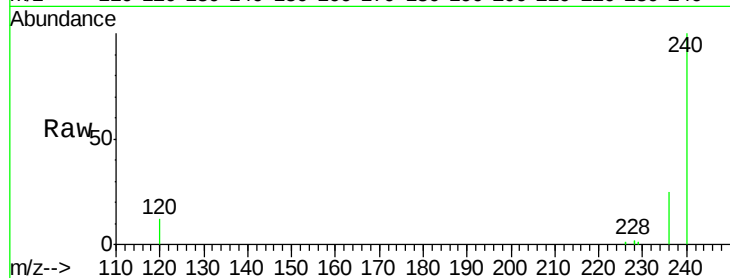
Tot Ion:240 Resp: 134309

Ion Ratio Lower Upper

240 100

120 12.3 10.6 15.8

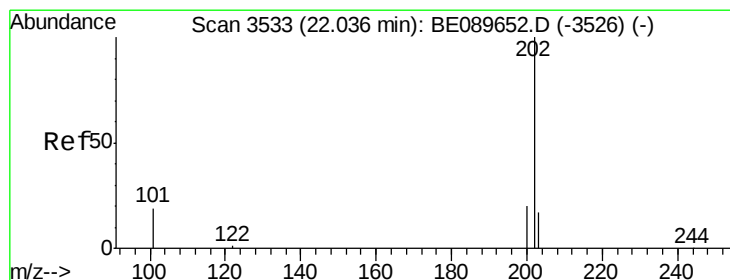
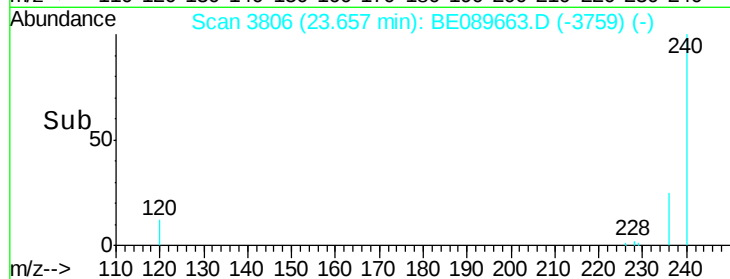
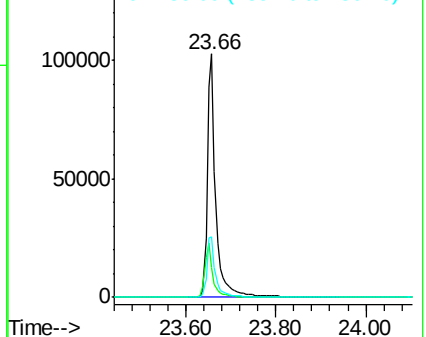
236 25.1 20.3 30.5



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



#20

Pyrene

Concen: 0.15 ng

RT: 22.04 min Scan# 3534

Delta R.T. 0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

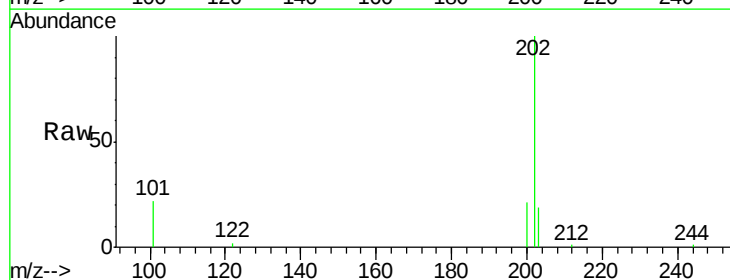
Tgt Ion:202 Resp: 4962

Ion Ratio Lower Upper

202 100

200 20.2 16.5 24.7

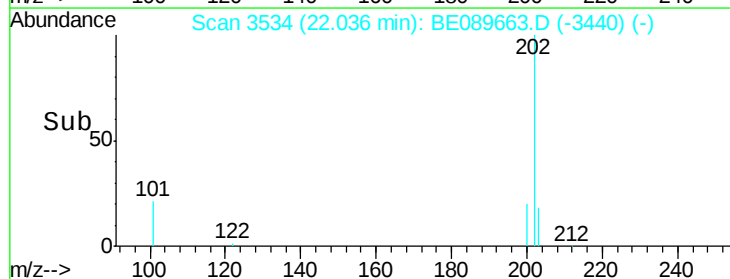
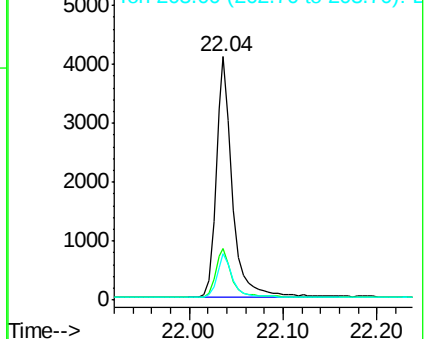
203 17.7 13.8 20.6

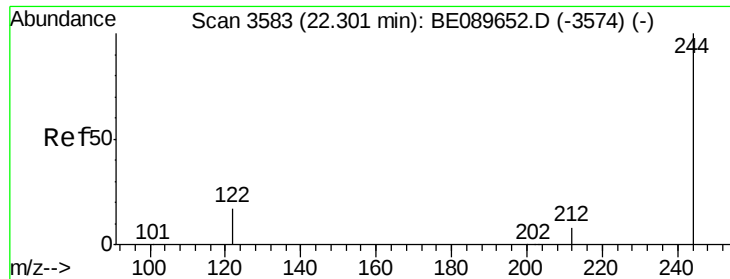


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

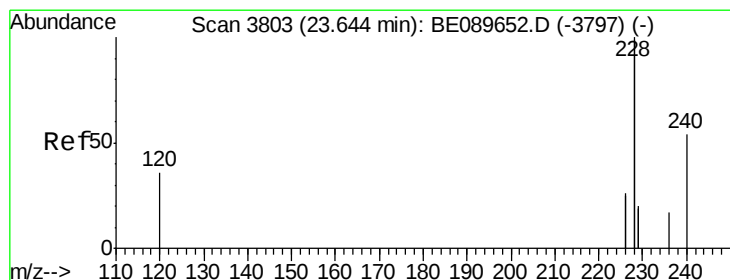
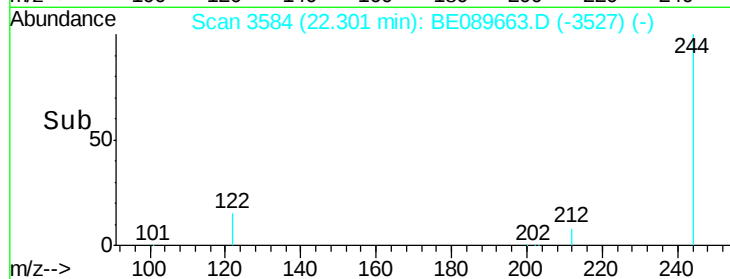
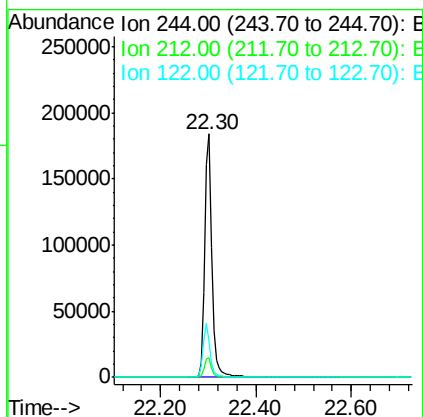
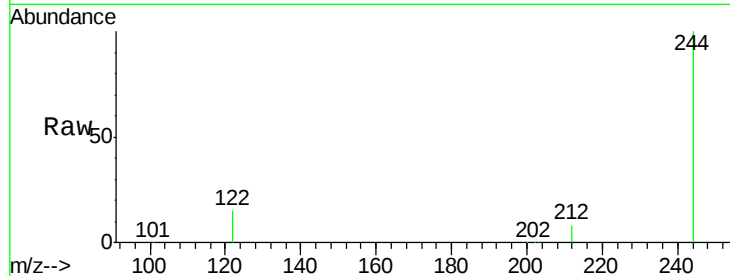
Ion 203.00 (202.70 to 203.70): E





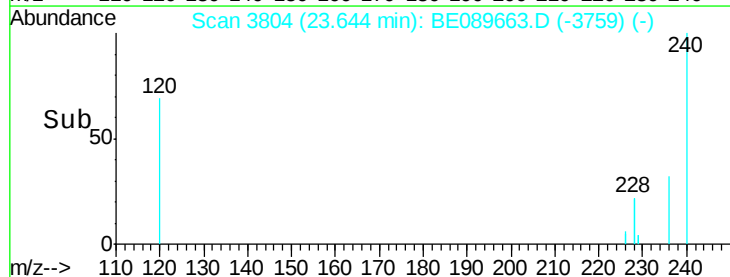
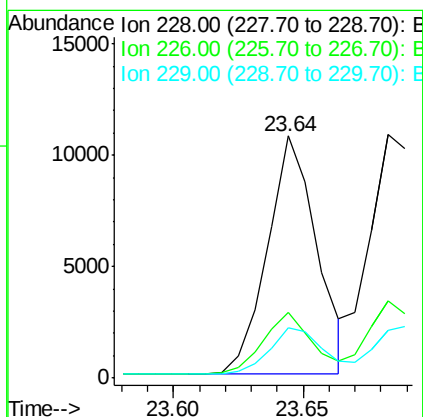
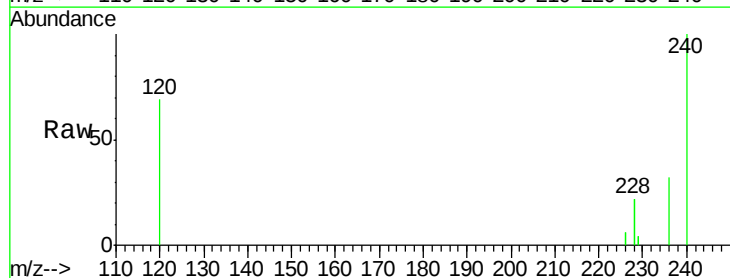
#21
 Terphenyl-d14
 Concen: 9.96 ng
 RT: 22.30 min Scan# 3584
 Delta R.T. 0.00 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

Tot Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.6	10.0
122	15.1	13.7	20.5



#22
 Benzo(a)anthracene
 Concen: 0.15 ng
 RT: 23.64 min Scan# 3804
 Delta R.T. -0.00 min
 Lab File: BE089663.D
 Acq: 24 Feb 2015 5:57

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.0	20.9	31.3
229	20.6	15.8	23.6





#23

Chrysene

Concen: 0.18 ng

RT: 23.68 min Scan# 3810

Delta R.T. -0.01 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

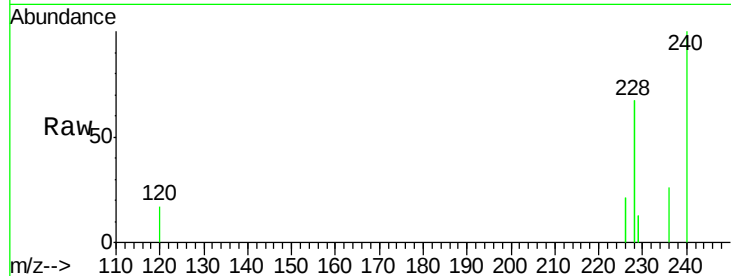
Tot Ion: 228 Resp: 22571

Ion Ratio Lower Upper

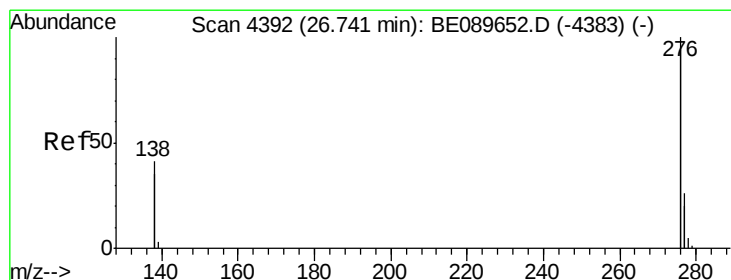
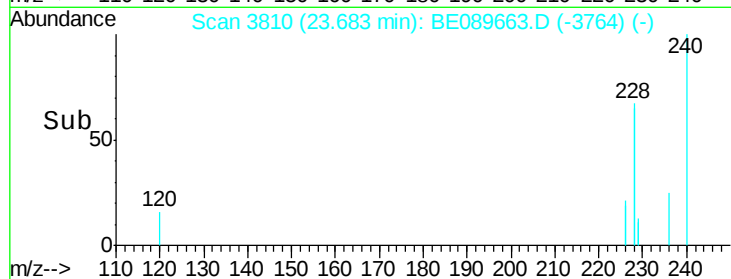
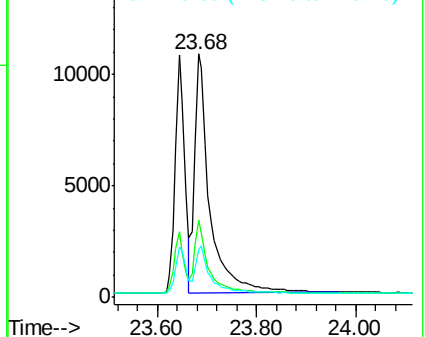
228 100

226 31.9 22.0 33.0

229 19.5 16.6 24.8



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.40 ng

RT: 26.73 min Scan# 4392

Delta R.T. -0.01 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

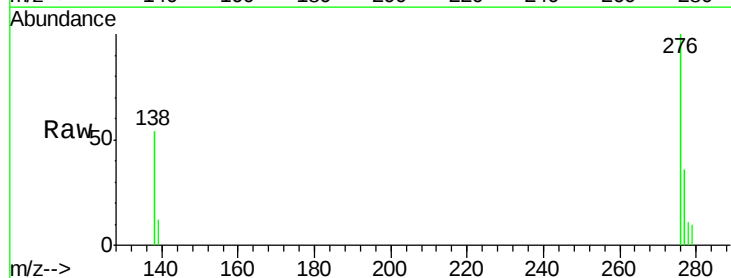
Tgt Ion: 276 Resp: 3855

Ion Ratio Lower Upper

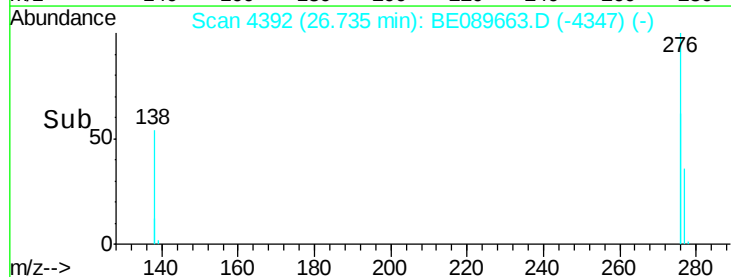
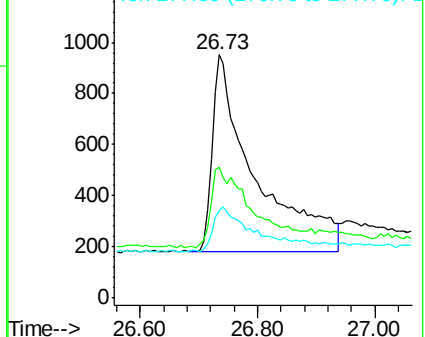
276 100

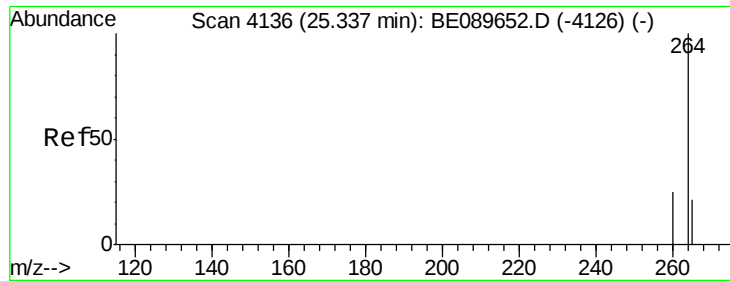
138 40.2 36.2 54.4

277 19.9 5.4 8.2#



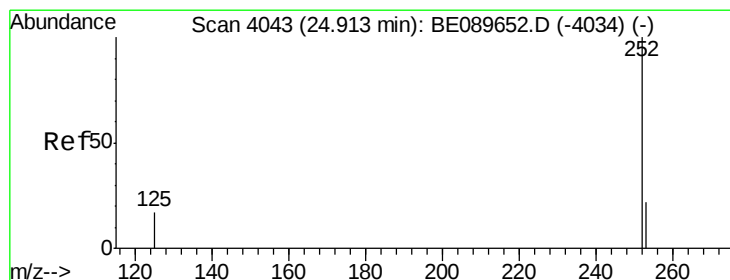
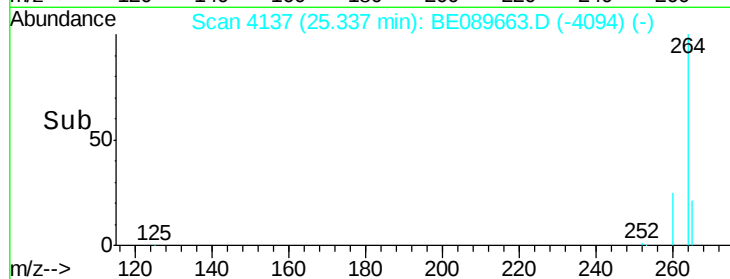
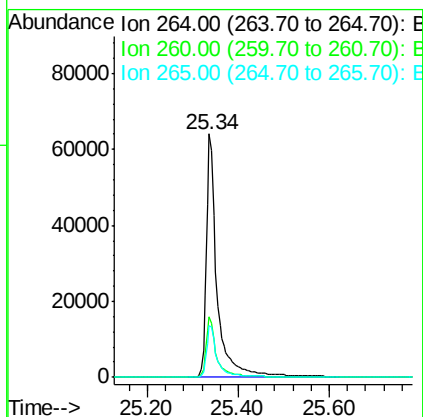
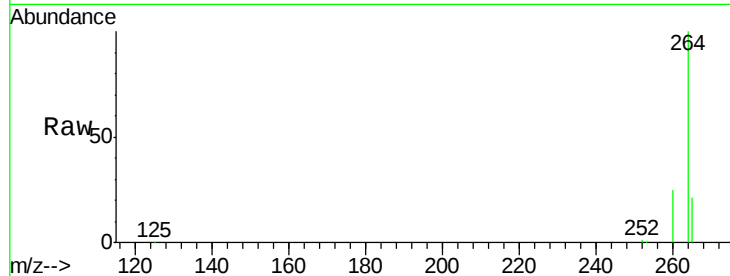
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





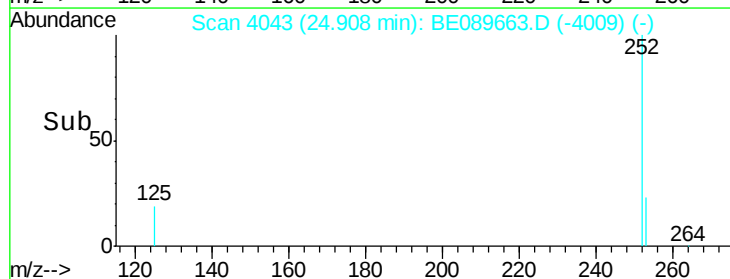
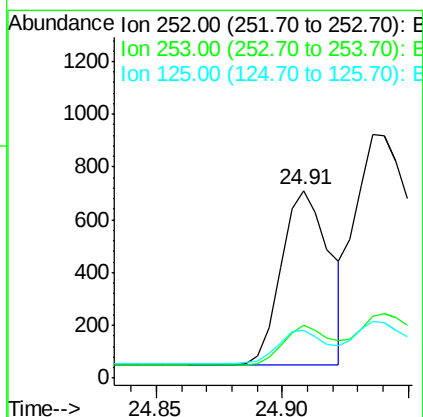
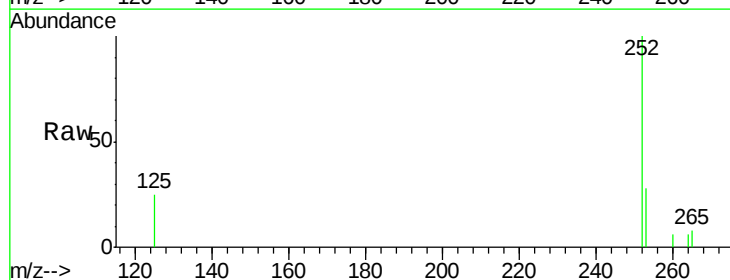
#25
Pervlene-d12
Concen: 5.00 ng
RT: 25.34 min Scan# 4137
Delta R.T. 0.00 min
Lab File: BE089663.D
Acq: 24 Feb 2015 5:57

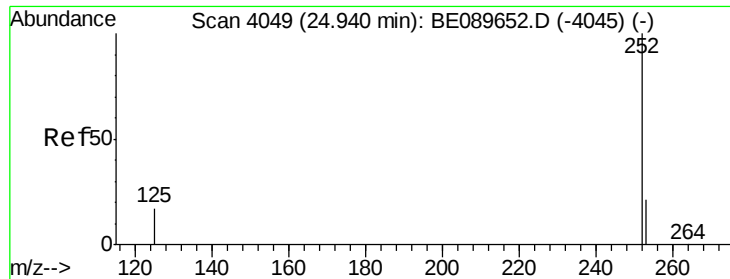
Tot Ion:264 Resp: 105467
Ion Ratio Lower Upper
264 100
260 24.9 20.0 30.0
265 21.0 16.8 25.2



#26
Benzo(b)fluoranthene
Concen: 0.42 ng
RT: 24.91 min Scan# 4043
Delta R.T. -0.00 min
Lab File: BE089663.D
Acq: 24 Feb 2015 5:57

Tgt Ion:252 Resp: 884
Ion Ratio Lower Upper
252 100
253 28.4 18.3 27.5#
125 25.1 14.6 22.0#





#27

Benzo(k)fluoranthene

Concen: 0.12 ng/mL

RT: 24.94 min Scan# 4049

Delta R.T. -0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

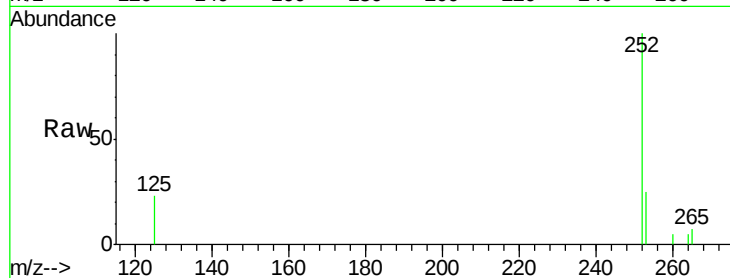
Tot Ion: 252 Resp: 2775

Ion Ratio Lower Upper

252 100

253 25.4 17.8 26.8

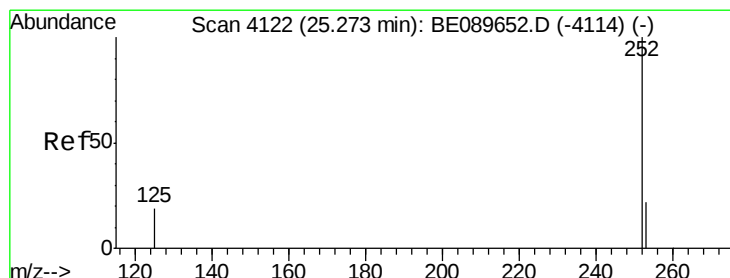
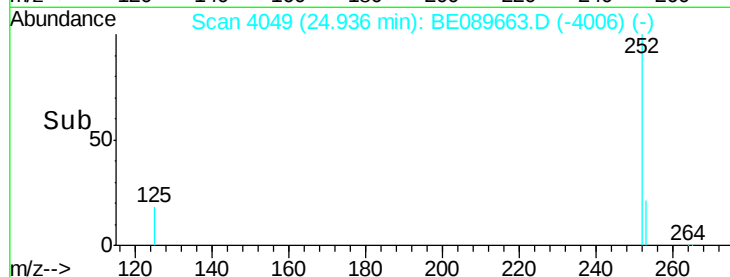
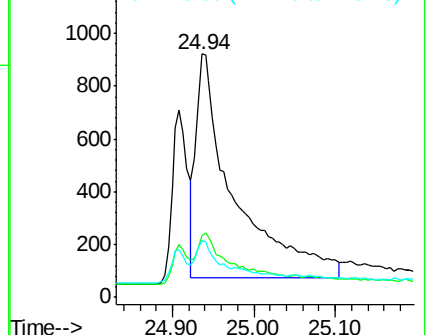
125 23.1 14.3 21.5#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.37 ng/mL

RT: 25.27 min Scan# 4122

Delta R.T. -0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

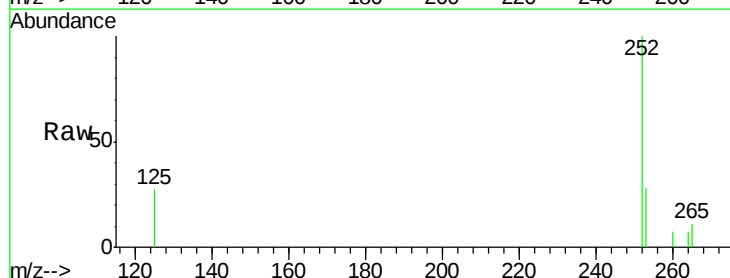
Tgt Ion: 252 Resp: 1028

Ion Ratio Lower Upper

252 100

253 27.6 18.4 27.6

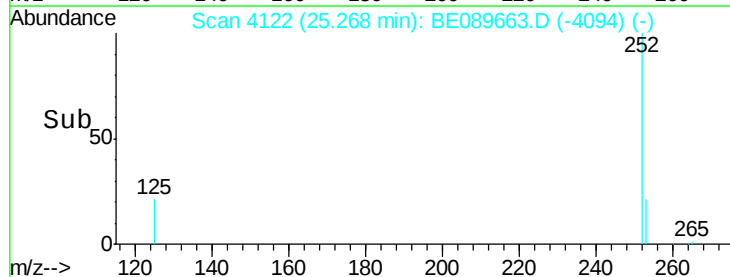
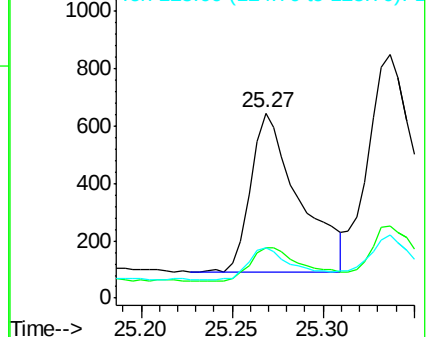
125 27.4 15.9 23.9#

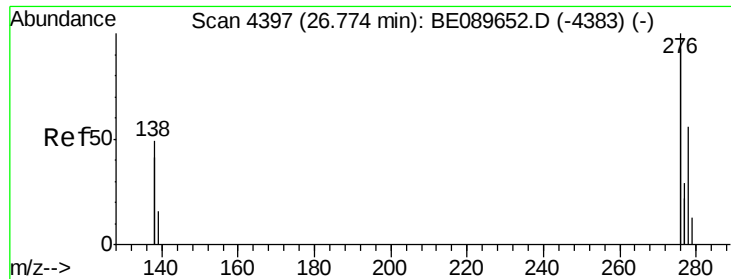


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.39 ng

RT: 26.77 min Scan# 4398

Delta R.T. 0.00 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

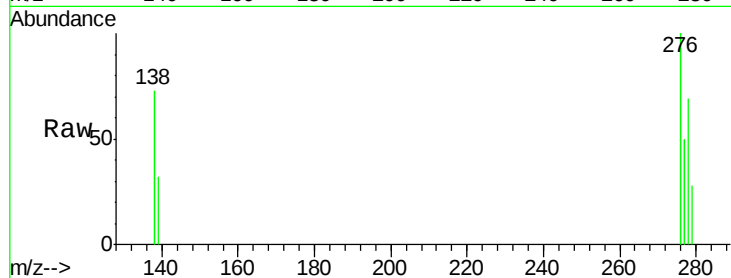
Tot Ion: 278 Resp: 572

Ion Ratio Lower Upper

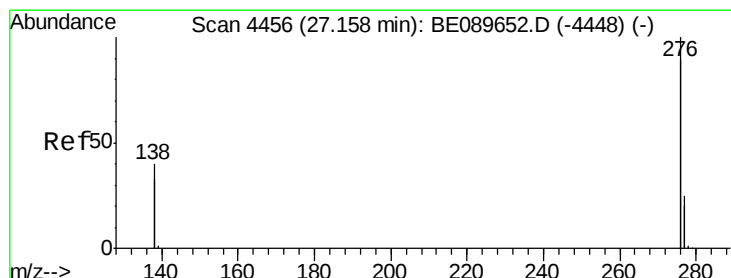
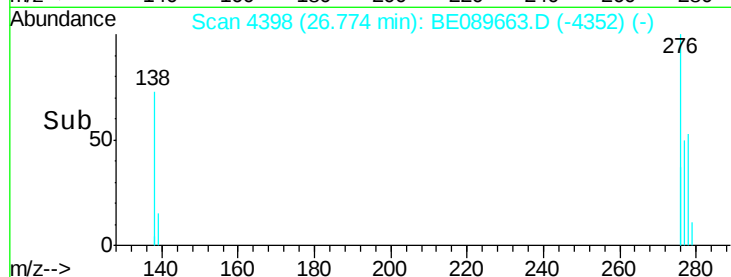
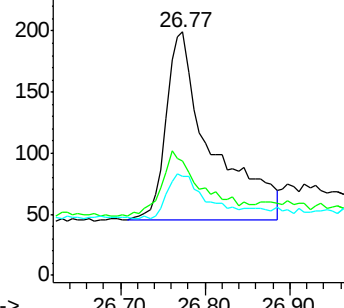
278 100

139 47.2 25.4 38.2#

279 40.7 20.0 30.0#



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 0.29 ng

RT: 27.15 min Scan# 4456

Delta R.T. -0.01 min

Lab File: BE089663.D

Acq: 24 Feb 2015 5:57

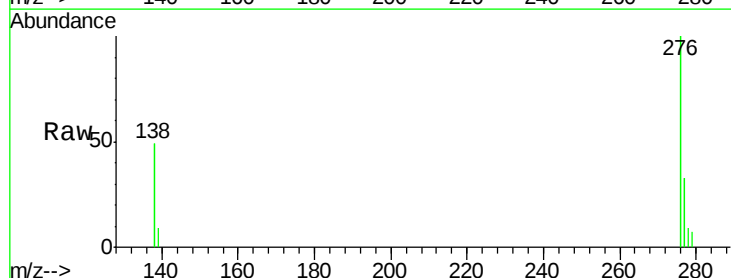
Tgt Ion: 276 Resp: 5807

Ion Ratio Lower Upper

276 100

277 33.1 20.2 30.2#

138 49.1 32.4 48.6#



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

