

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE063015\
 Data File : BE090034.D
 Acq On : 1 Jul 2015 6:35
 Operator : TP/IZ
 Sample : G2824-10 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 X1SS0660006-150626

Quant Time: Jul 01 08:12:58 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 30 07:01:01 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	15803	5.00	ng	0.00
6) Naphthalene-d8	10.37	136	66628	5.00	ng	-0.02
12) Acenaphthene-d10	14.23	164	36190	5.00	ng	0.00
18) Phenanthrene-d10	16.96	188	83569	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	107057	5.00	ng	-0.01
32) Perylene-d12	23.44	264	107442	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.25	112	15756	4.34	ng	0.00
5) Phenol-d6	6.80	99	22094	4.35	ng	0.00
7) Nitrobenzene-d5	8.75	82	12153	2.30	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	4157	3.92	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	26110	2.40	ng	0.00
27) Terphenyl-d14	19.58	244	39853	2.23	ng	-0.01

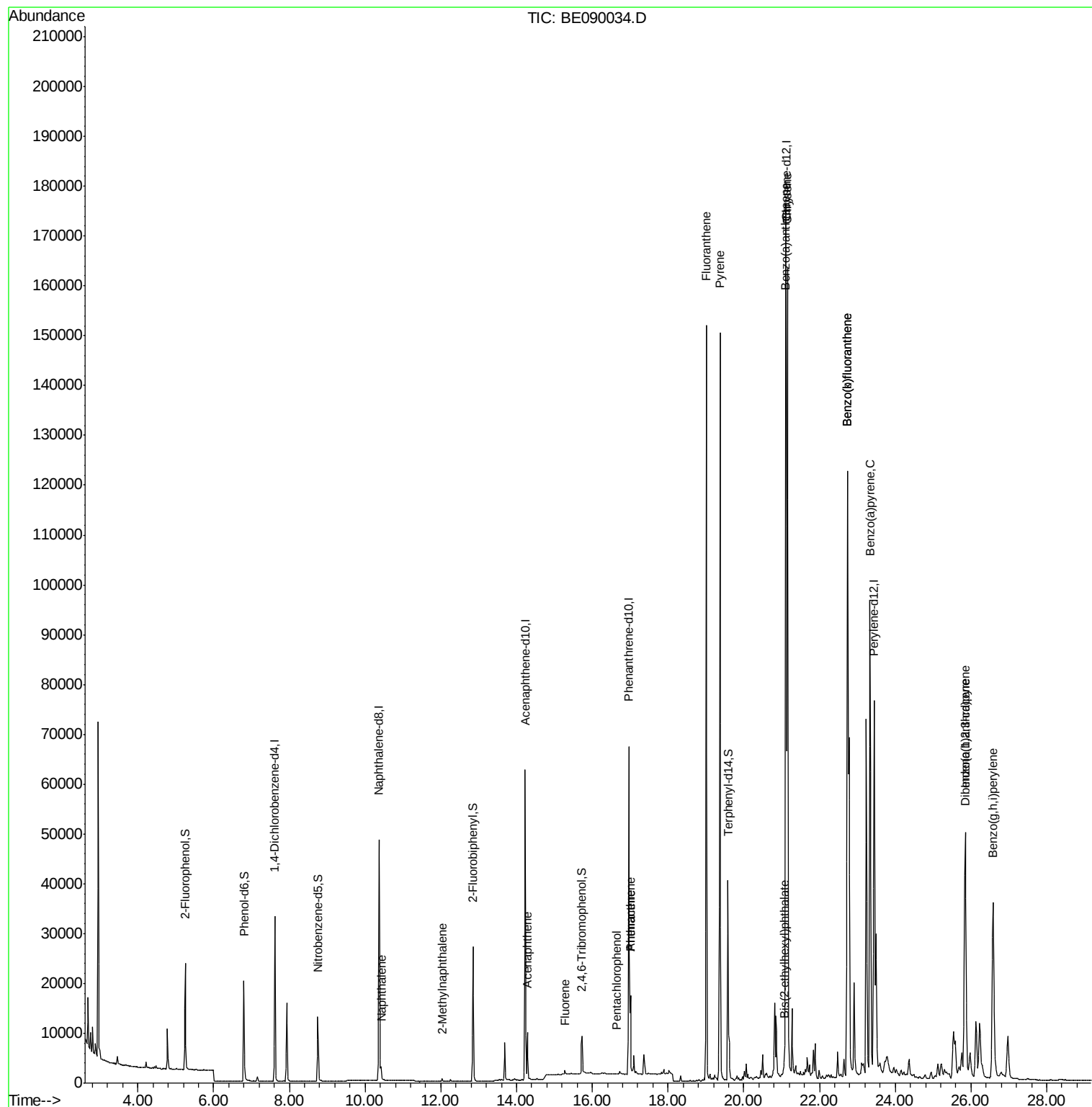
Target Compounds						Qvalue
9) Naphthalene	10.42	128	3088	0.20	ng	95
11) 2-Methylnaphthalene	12.04	142	511	0.05	ng	94
16) Acenaphthene	14.28	154	1623	0.17	ng	94
17) Fluorene	15.27	166	684	0.05	ng	# 84
21) Pentachlorophenol	16.63	266	11	0.26	ng	# 60
22) Phenanthrene	17.01	178	21516	1.00	ng	99
23) Anthracene	17.01	178	21517	1.10	ng	98
24) Fluoranthene	19.01	202	130861	5.47	ng	100
26) Pyrene	19.37	202	132569	5.20	ng	# 95
28) Benzo(a)anthracene	21.11	228	142806	5.34	ng	98
29) Chrysene	21.16	228	147804	5.32	ng	97
30) Bis(2-ethylhexyl)phthalate	21.05	149	832	0.37	ng	99
31) Indeno(1,2,3-cd)pyrene	25.84	276	84120	3.16	ng	97
33) Benzo(b)fluoranthene	22.74	252	198664	8.38	ng	98
34) Benzo(k)fluoranthene	22.74	252	198664	7.50	ng	98
35) Benzo(a)pyrene	23.33	252	136232	6.22	ng	98
36) Dibenzo(a,h)anthracene	25.86	278	24060	1.07	ng	97
37) Benzo(g,h,i)perylene	26.58	276	80806	3.55	ng	97

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

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Quant Method : Z:\HPCHEM1\BNA_M\METHODS\8270-SIM-BE062915.M
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QLast Update : Tue Jun 30 07:01:01 2015
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.62 min Scan# 852

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

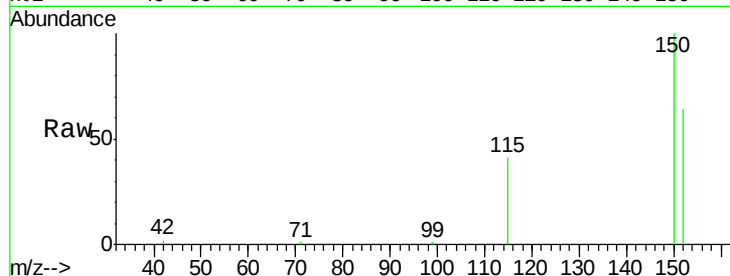
Tgt Ion:152 Resp: 15803

Ion Ratio Lower Upper

152 100

150 157.1 123.9 185.9

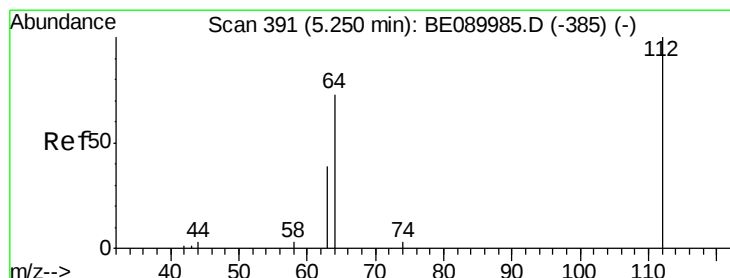
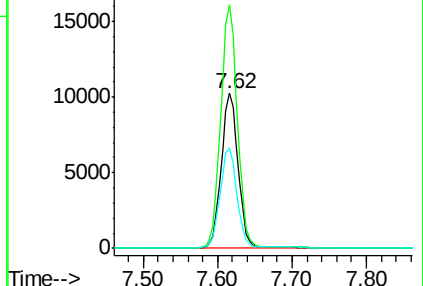
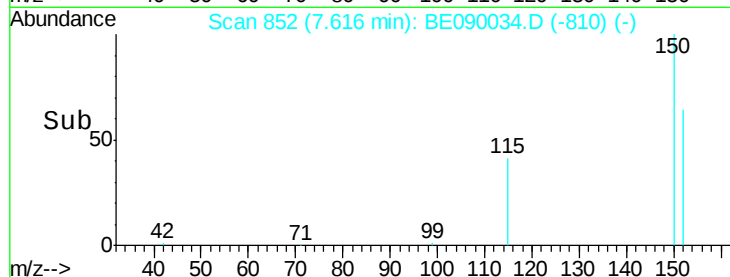
115 64.4 50.6 76.0



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



#4

2-Fluorophenol

Concen: 4.34 ng

RT: 5.25 min Scan# 391

Delta R.T. -0.00 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

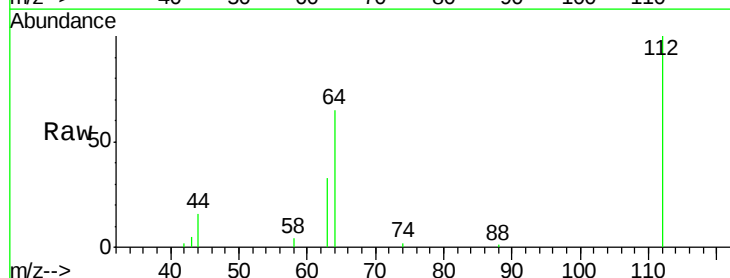
Tgt Ion:112 Resp: 15756

Ion Ratio Lower Upper

112 100

64 70.1 56.3 84.5

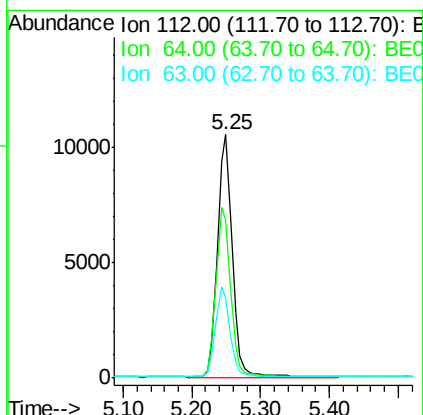
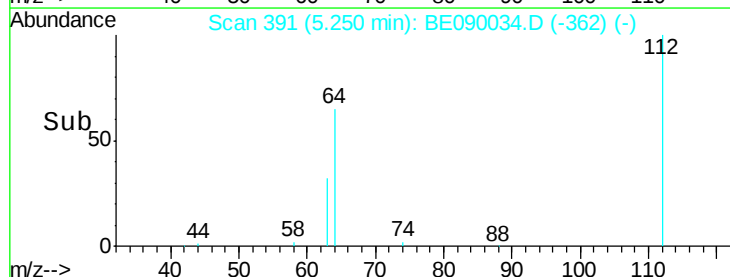
63 36.7 29.8 44.6

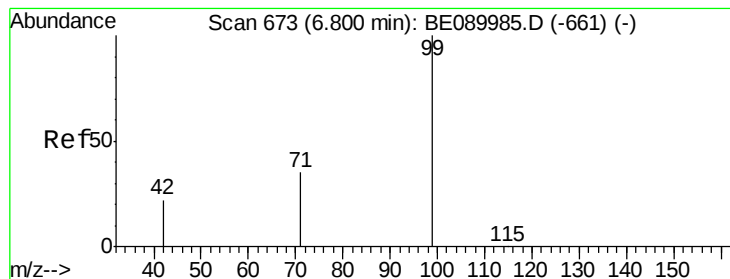


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 4.35 ng

RT: 6.80 min Scan# 672

Delta R.T. -0.00 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

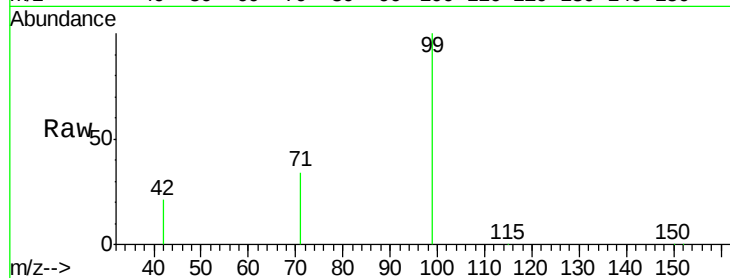
Tgt Ion: 99 Resp: 22094

Ion Ratio Lower Upper

99 100

42 20.8 18.7 28.1

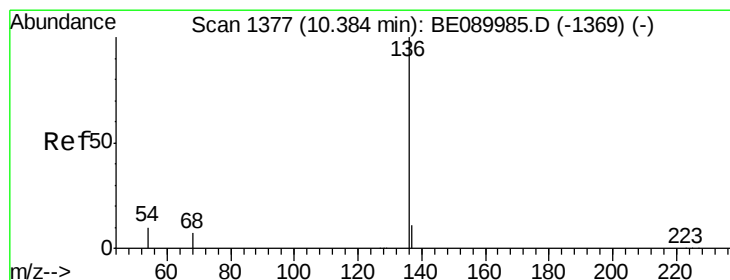
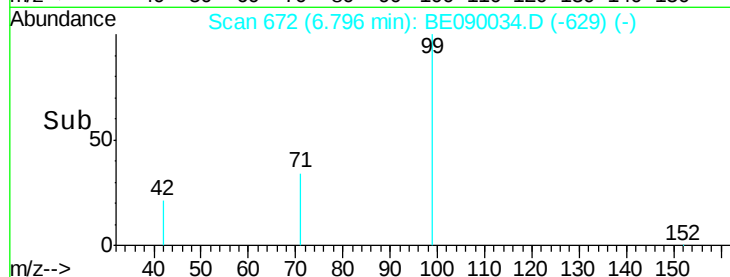
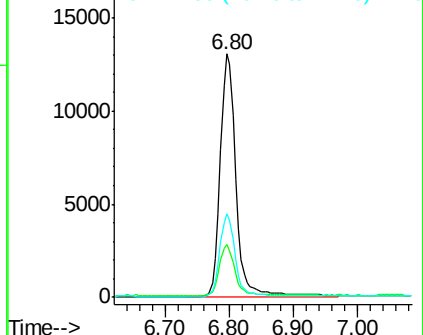
71 33.4 27.5 41.3



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.37 min Scan# 1375

Delta R.T. -0.02 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Tgt Ion: 136 Resp: 66628

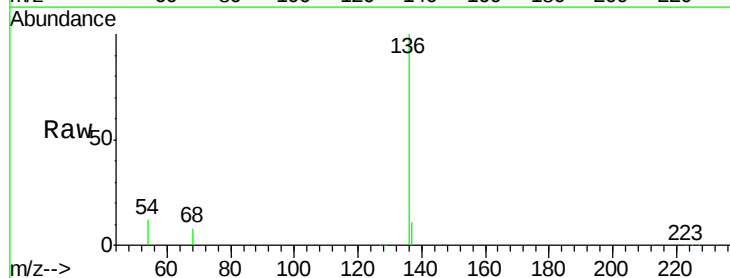
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 12.1 8.2 12.4

68 8.4 5.8 8.8

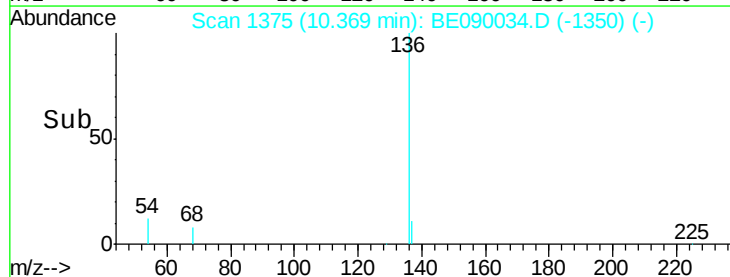
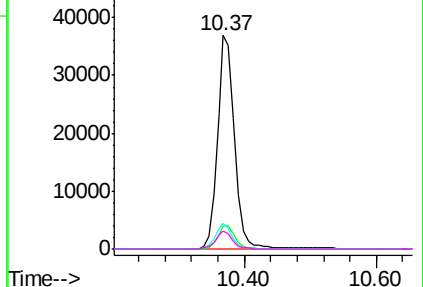


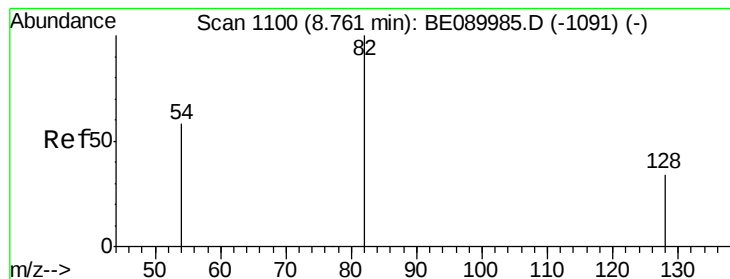
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0





#7

Nitrobenzene-d5

Concen: 2.30 ng

RT: 8.75 min Scan# 1098

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

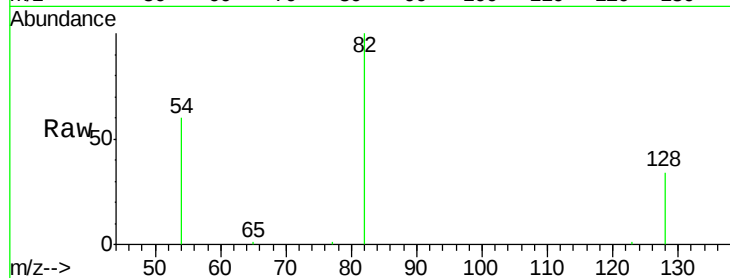
Tgt Ion: 82 Resp: 12153

Ion Ratio Lower Upper

82 100

128 34.1 28.0 42.0

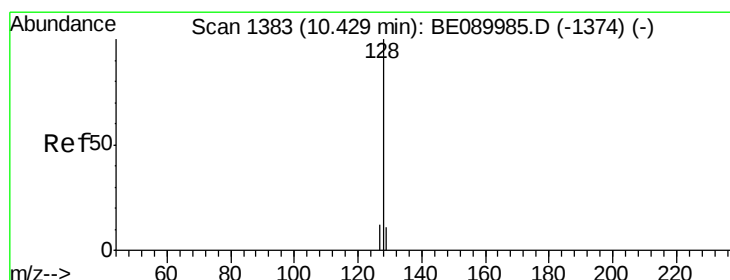
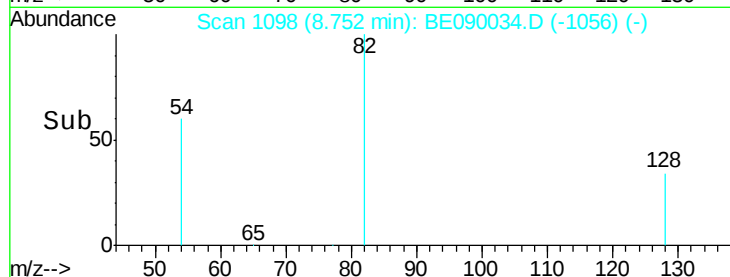
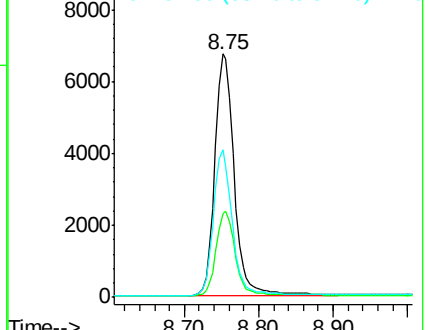
54 60.4 47.6 71.4



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



#9

Naphthalene

Concen: 0.20 ng

RT: 10.42 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

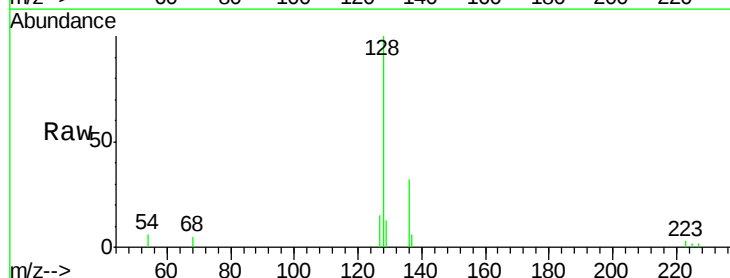
Tgt Ion: 128 Resp: 3088

Ion Ratio Lower Upper

128 100

129 13.5 9.3 13.9

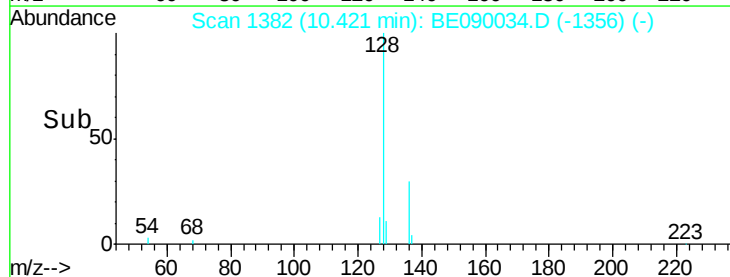
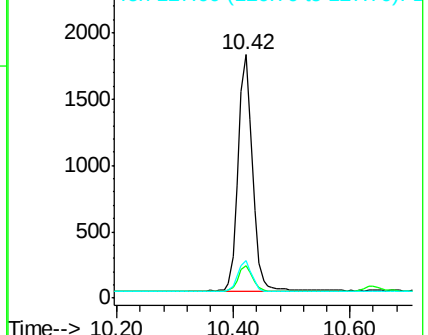
127 15.2 10.2 15.4

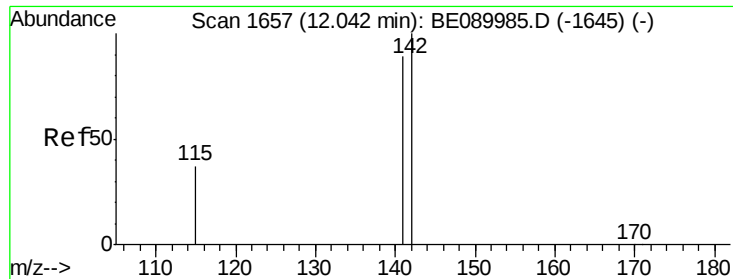


Abundance Ion 128.00 (127.70 to 128.70): BE0

Ion 129.00 (128.70 to 129.70): BE0

Ion 127.00 (126.70 to 127.70): BE0

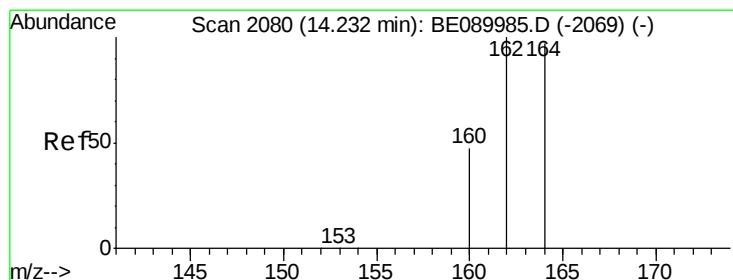
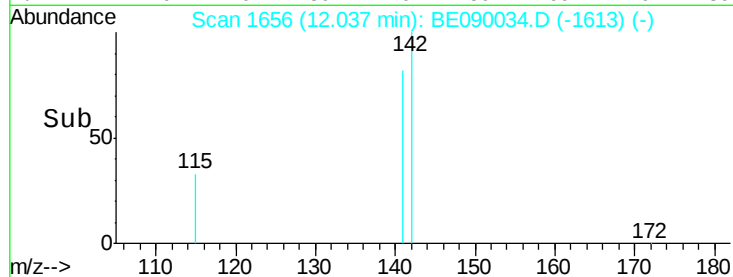
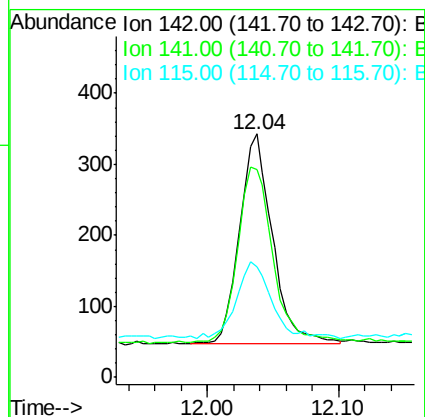
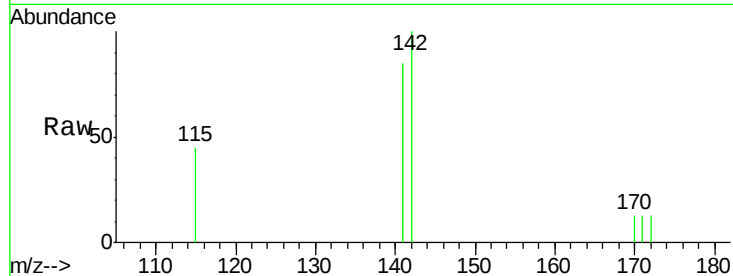




#11
2-Methylnaphthalene
Concen: 0.05 ng
RT: 12.04 min Scan# 1656
Delta R.T. -0.00 min
Lab File: BE090034.D
Acq: 1 Jul 2015 6:35

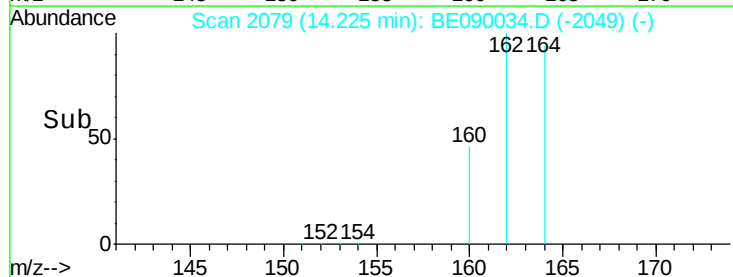
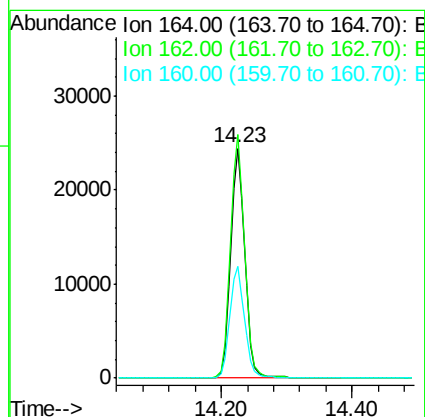
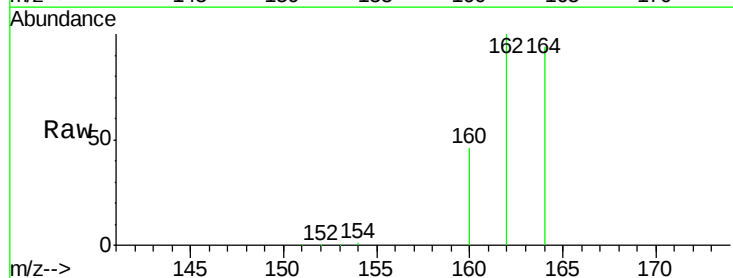
Instrument :
BNA_F
ClientSampleId :
X1SS0660006-150626

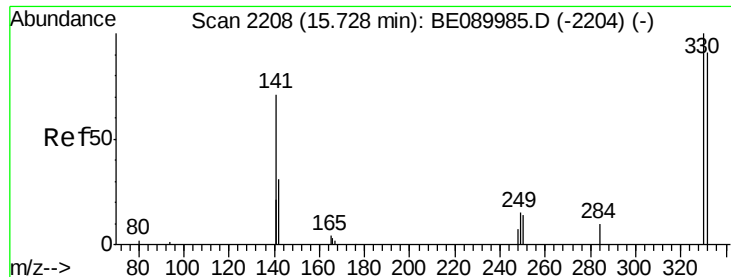
Tgt Ion:142 Resp: 511
Ion Ratio Lower Upper
142 100
141 85.4 71.3 106.9
115 45.5 30.4 45.6



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.23 min Scan# 2079
Delta R.T. -0.01 min
Lab File: BE090034.D
Acq: 1 Jul 2015 6:35

Tgt Ion:164 Resp: 36190
Ion Ratio Lower Upper
164 100
162 106.0 82.2 123.4
160 48.6 39.0 58.6

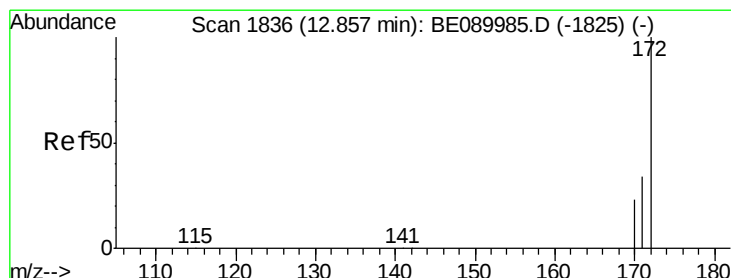
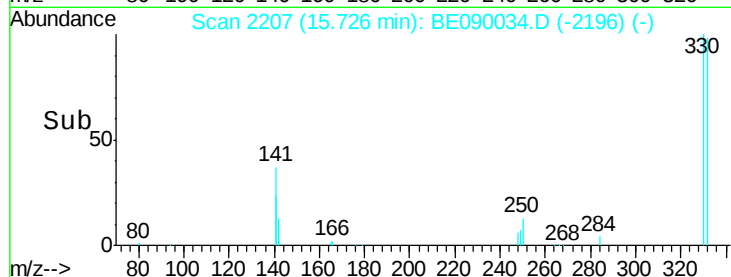
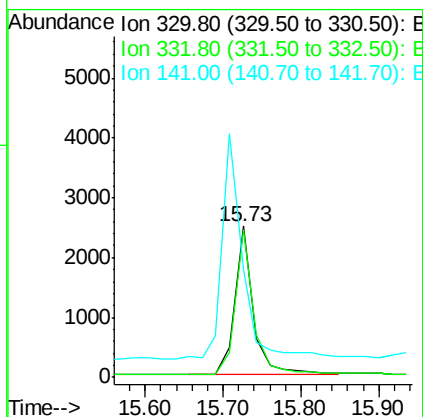
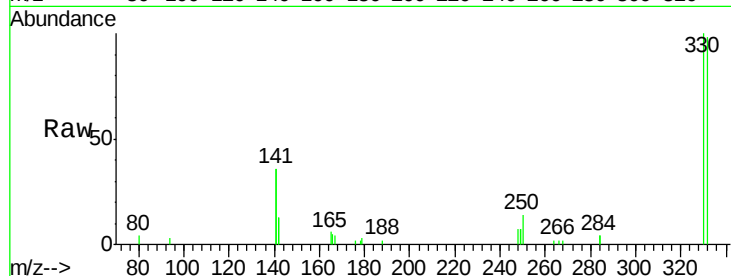




#13
 2,4,6-Tribromophenol
 Concen: 3.92 ng
 RT: 15.73 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE090034.D
 Acq: 1 Jul 2015 6:35

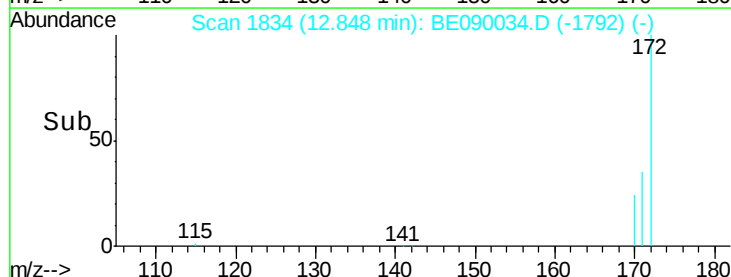
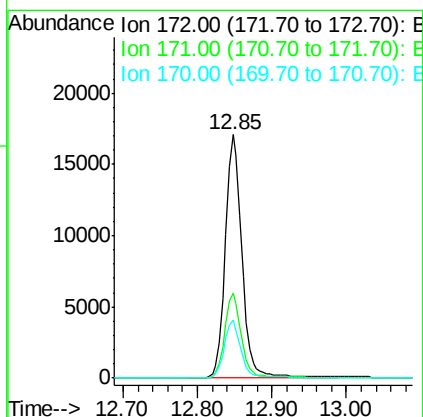
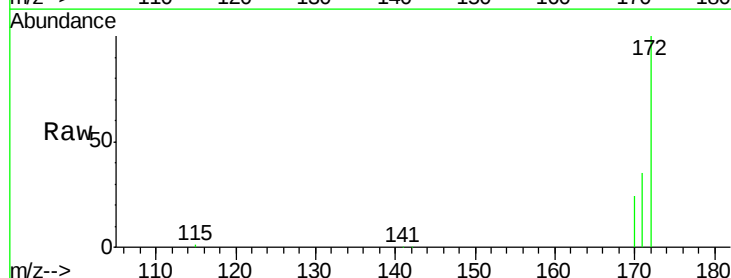
Instrument :
 BNA_F
 ClientSampleId :
 X1SS0660006-150626

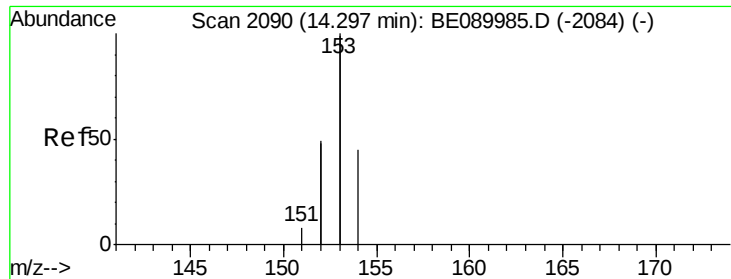
Tgt Ion: 330 Resp: 4157
 Ion Ratio Lower Upper
 330 100
 332 96.8 76.4 114.6
 141 164.3 130.3 195.5



#14
 2-Fluorobiphenyl
 Concen: 2.40 ng
 RT: 12.85 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BE090034.D
 Acq: 1 Jul 2015 6:35

Tgt Ion: 172 Resp: 26110
 Ion Ratio Lower Upper
 172 100
 171 35.0 27.8 41.6
 170 23.7 18.3 27.5





#16

Acenaphthene

Concen: 0.17 ng

RT: 14.28 min Scan# 2088

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

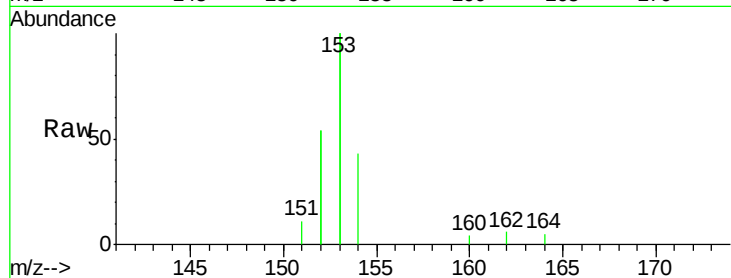
Tgt Ion:154 Resp: 1623

Ion Ratio Lower Upper

154 100

153 464.8 358.6 538.0

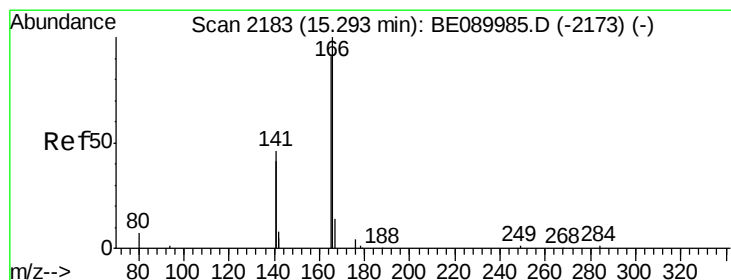
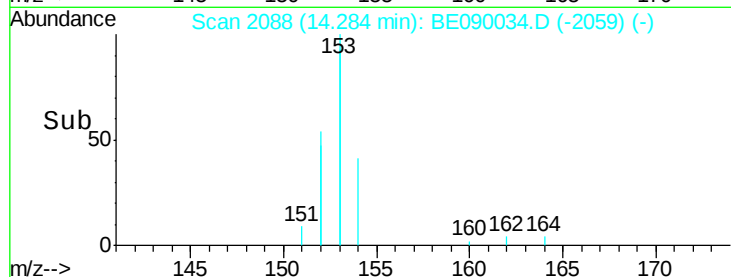
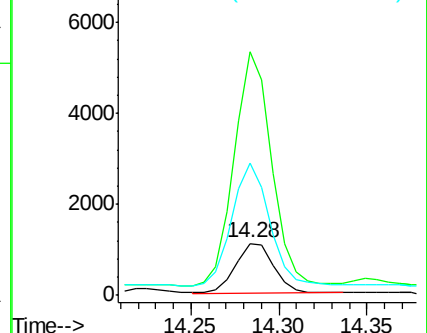
152 246.7 189.6 284.4



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



#17

Fluorene

Concen: 0.05 ng

RT: 15.27 min Scan# 2181

Delta R.T. -0.02 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

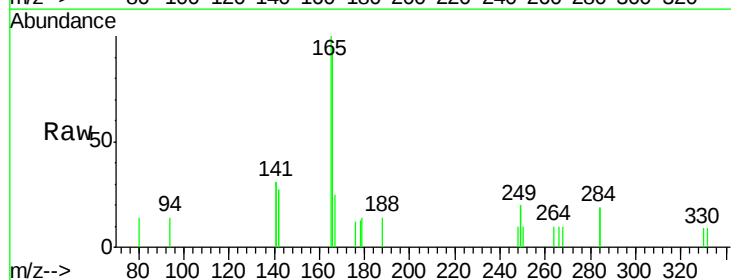
Tgt Ion:166 Resp: 684

Ion Ratio Lower Upper

166 100

165 115.1 79.0 118.6

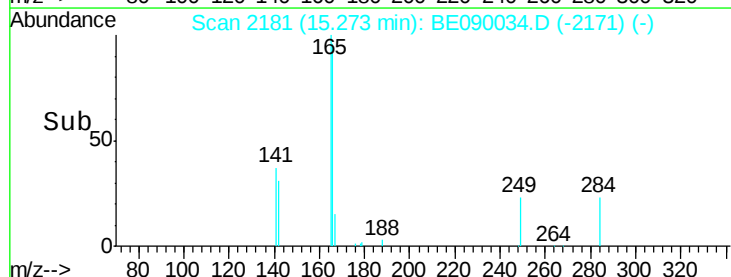
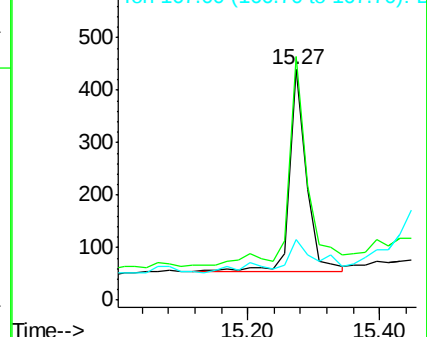
167 21.2 11.8 17.8#

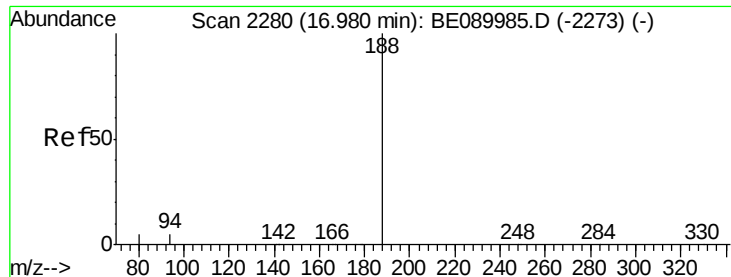


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

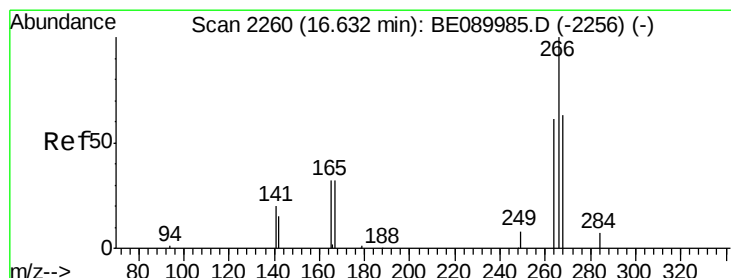
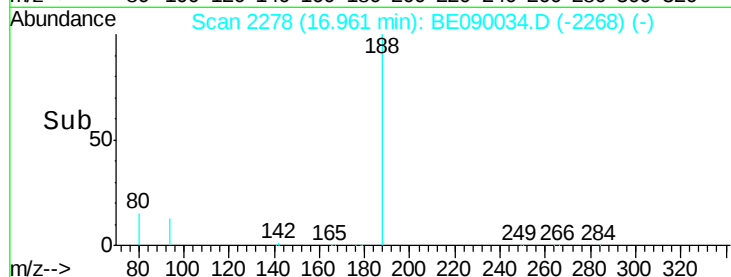
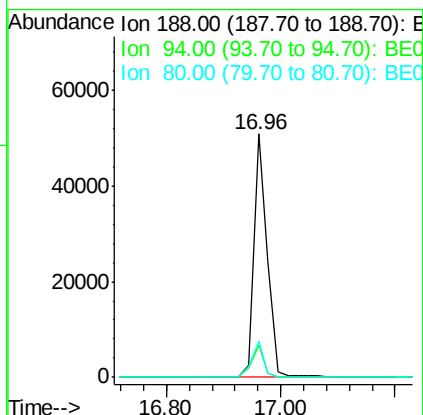
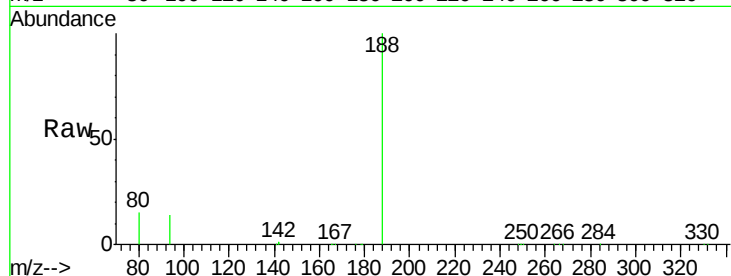




#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.96 min Scan# 2278
Delta R.T. -0.02 min
Lab File: BE090034.D
Acq: 1 Jul 2015 6:35

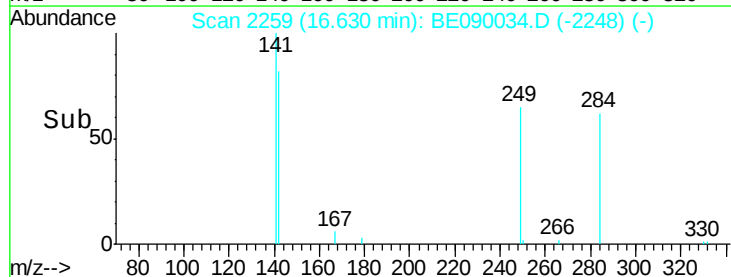
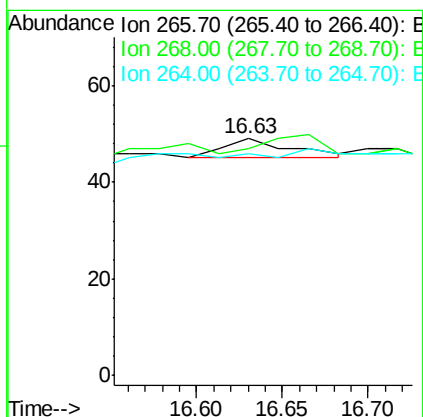
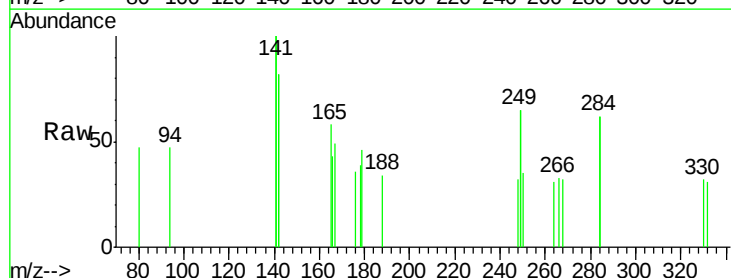
Instrument :
BNA_F
ClientSampleId :
X1SS0660006-150626

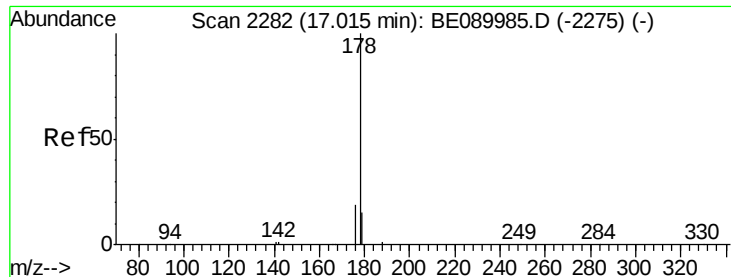
Tgt Ion:188 Resp: 83569
Ion Ratio Lower Upper
188 100
94 13.5 4.1 6.1#
80 14.8 4.2 6.2#



#21
Pentachlorophenol
Concen: 0.26 ng
RT: 16.63 min Scan# 2259
Delta R.T. -0.00 min
Lab File: BE090034.D
Acq: 1 Jul 2015 6:35

Tgt Ion:266 Resp: 11
Ion Ratio Lower Upper
266 100
268 95.9 51.8 77.8#
264 93.9 50.2 75.2#





#22

Phenanthrene

Concen: 1.00 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

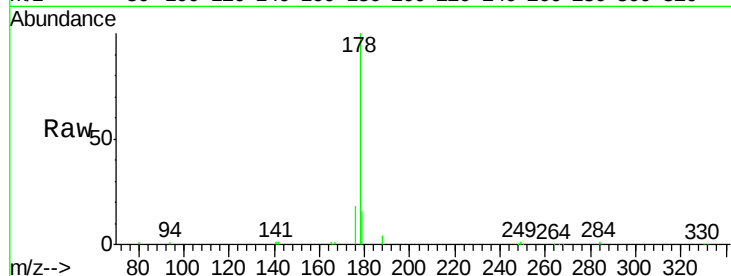
Tgt Ion:178 Resp: 21516

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

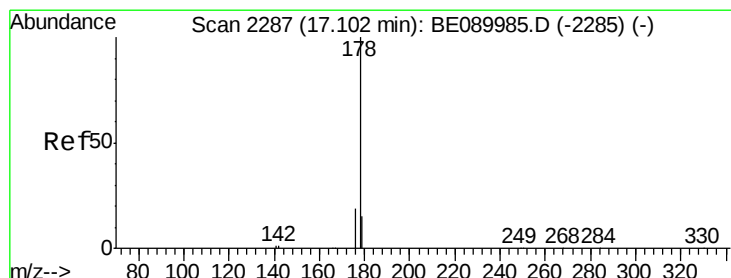
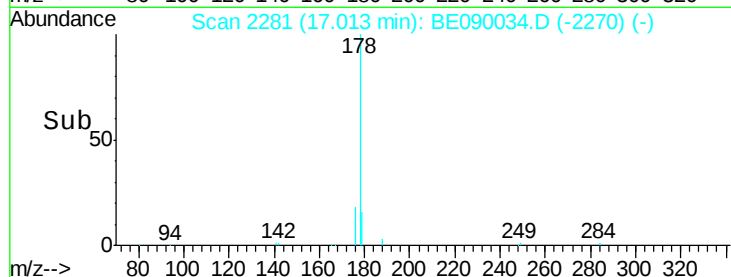
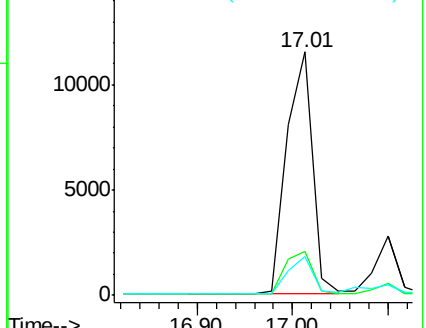
179 15.7 12.4 18.6



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



#23

Anthracene

Concen: 1.10 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.09 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

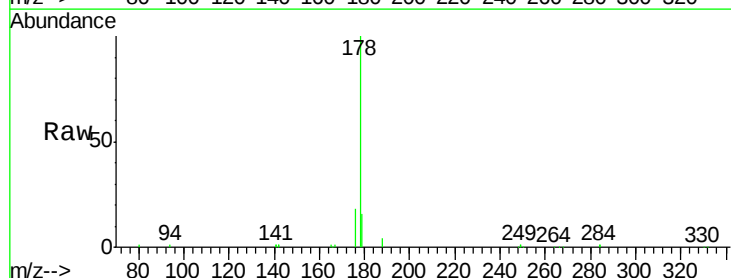
Tgt Ion:178 Resp: 21517

Ion Ratio Lower Upper

178 100

176 19.3 14.7 22.1

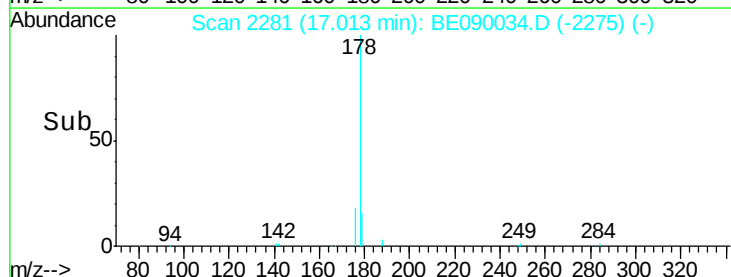
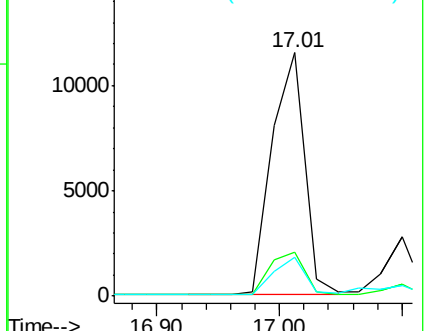
179 15.7 12.1 18.1

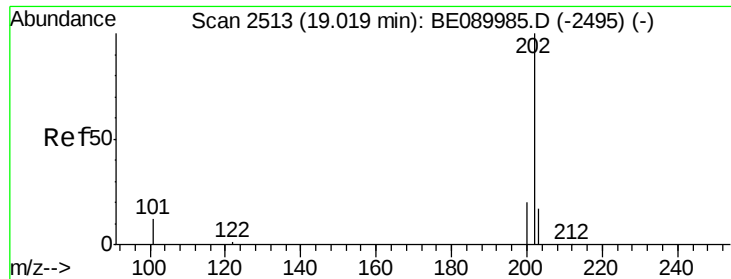


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene

Concen: 5.47 ng

RT: 19.01 min Scan# 2510

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

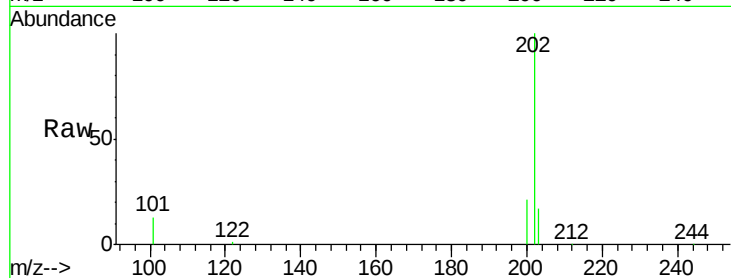
Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

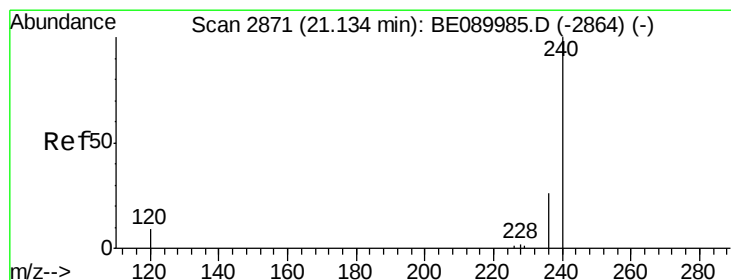
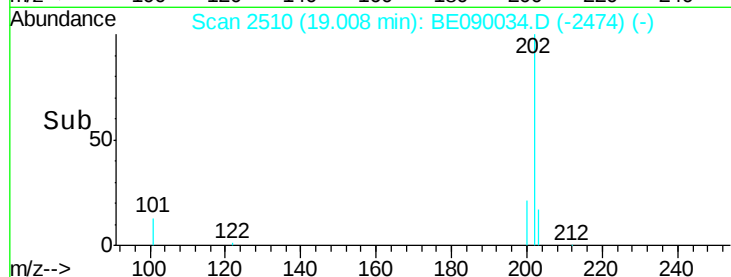
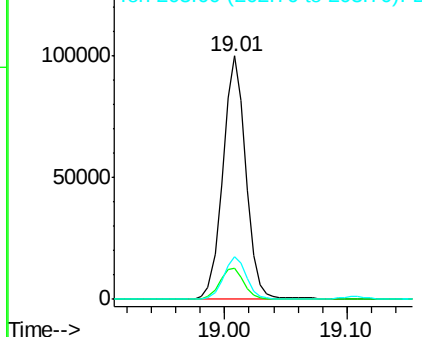
Tgt Ion:	202	Resp:	130861
Ion	Ratio	Lower	Upper
202	100		
101	13.4	10.6	15.8
203	17.3	13.8	20.6



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



#25

Chrysene-d12

Concen: 5.00 ng

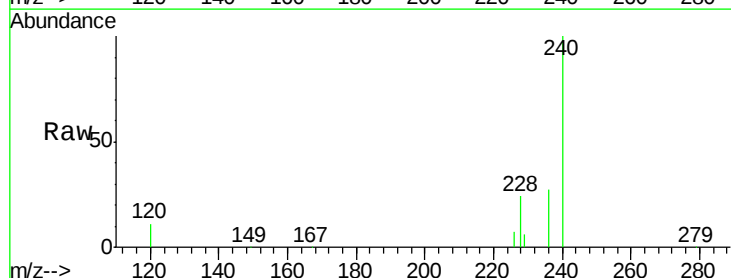
RT: 21.12 min Scan# 2868

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

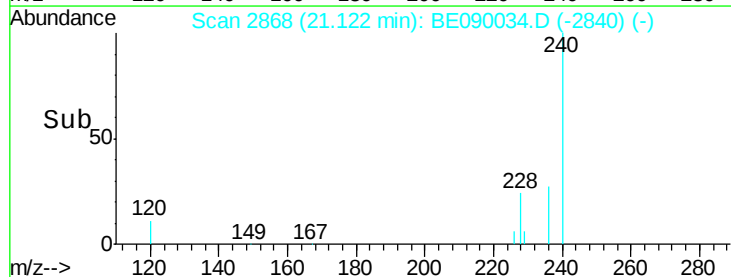
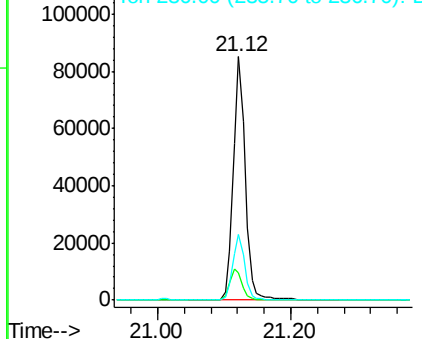
Tgt Ion:	240	Resp:	107057
Ion	Ratio	Lower	Upper
240	100		
120	11.2	6.9	10.3#
236	27.1	20.8	31.2

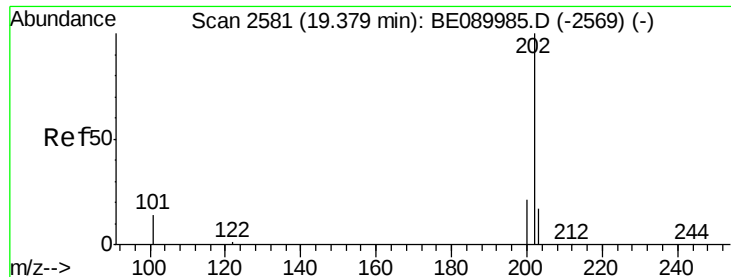


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

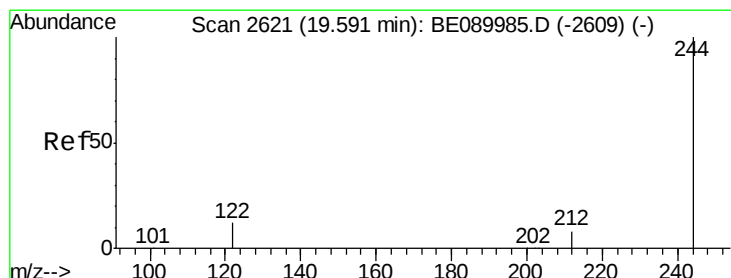
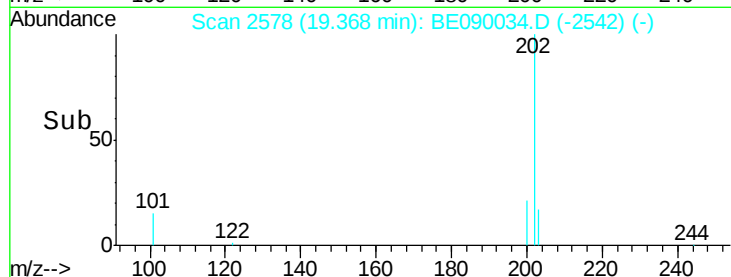
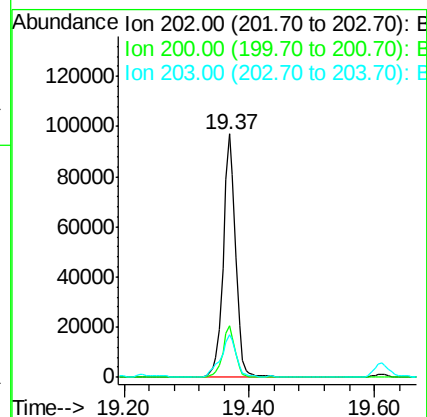
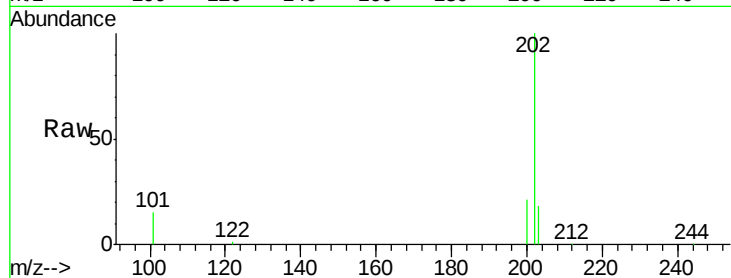




#26
 Pyrene
 Concen: 5.20 ng
 RT: 19.37 min Scan# 2578
 Delta R.T. -0.01 min
 Lab File: BE090034.D
 Acq: 1 Jul 2015 6:35

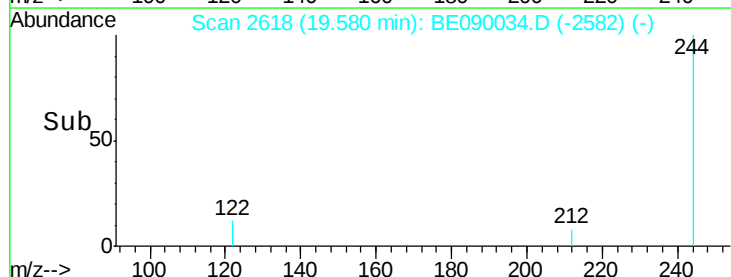
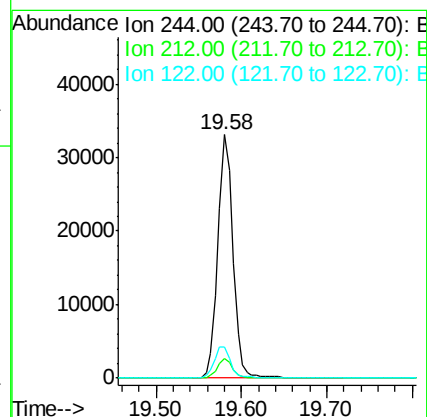
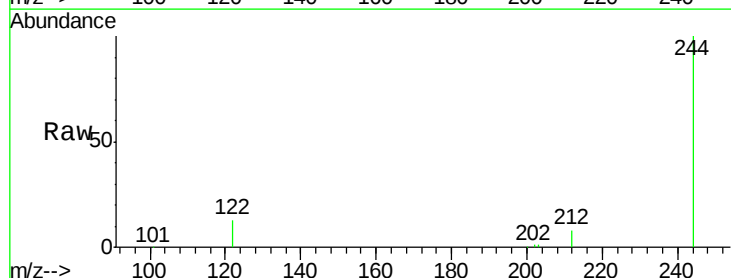
Instrument :
 BNA_F
 ClientSampleId :
 X1SS0660006-150626

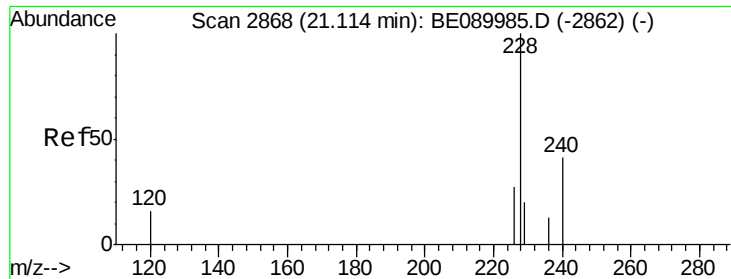
Tgt Ion: 202 Resp: 132569
 Ion Ratio Lower Upper
 202 100
 200 21.2 16.8 25.2
 203 21.7 13.9 20.9#



#27
 Terphenyl-d14
 Concen: 2.23 ng
 RT: 19.58 min Scan# 2618
 Delta R.T. -0.01 min
 Lab File: BE090034.D
 Acq: 1 Jul 2015 6:35

Tgt Ion: 244 Resp: 39853
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.6 9.8
 122 12.6 9.8 14.8

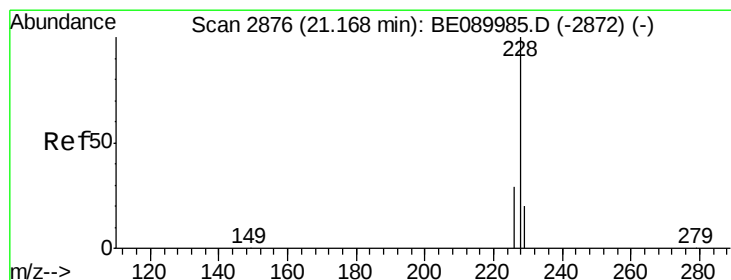
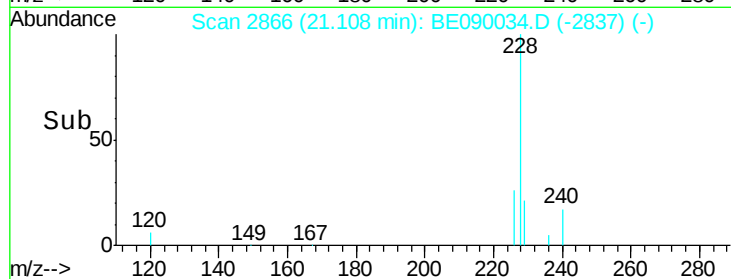
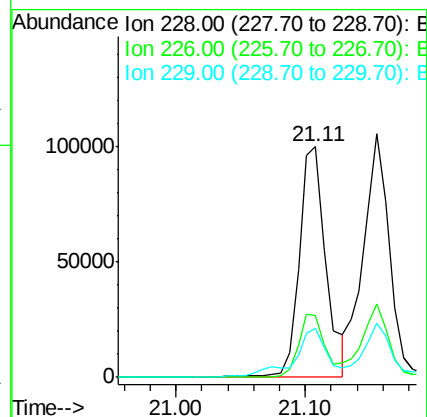
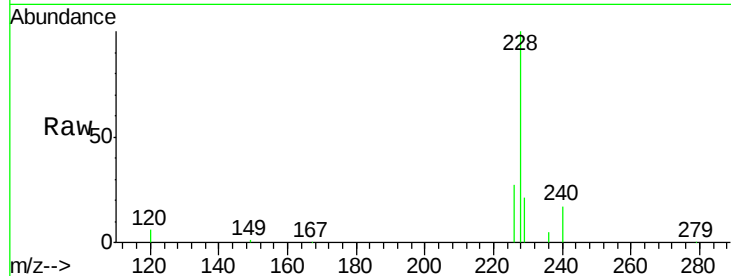




#28
Benzo(a)anthracene
Concen: 5.34 ng
RT: 21.11 min Scan# 2866
Delta R.T. -0.01 min
Lab File: BE090034.D
Acq: 1 Jul 2015 6:35

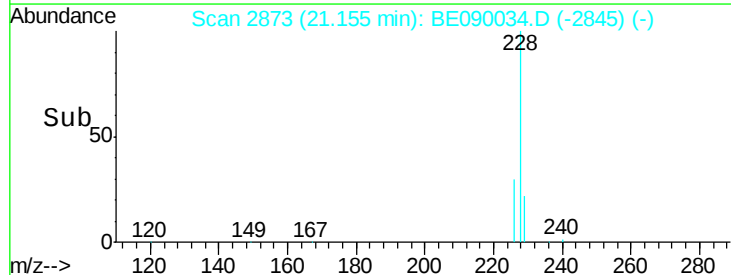
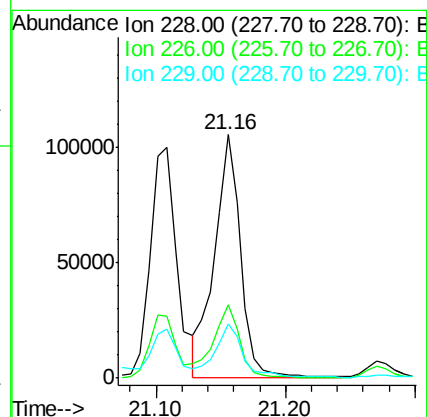
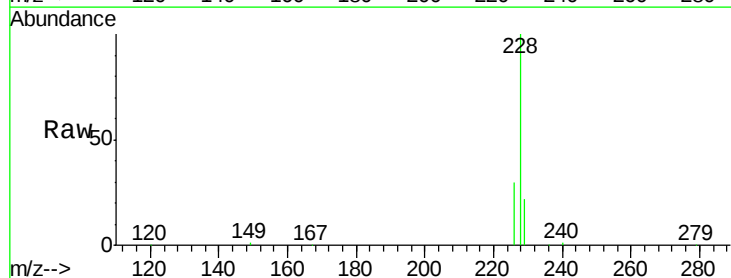
Instrument :
BNA_F
ClientSampleId :
X1SS0660006-150626

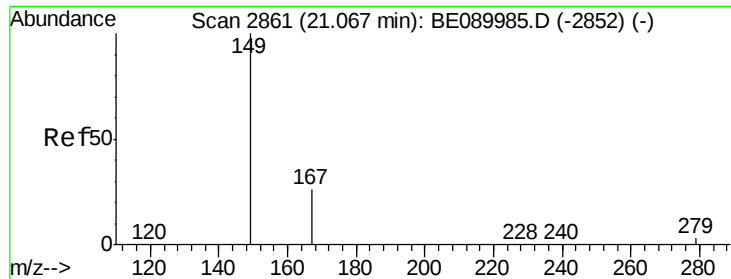
Tgt Ion:228 Resp: 142806
Ion Ratio Lower Upper
228 100
226 26.7 21.8 32.6
229 21.1 15.8 23.6



#29
Chrysene
Concen: 5.32 ng
RT: 21.16 min Scan# 2873
Delta R.T. -0.01 min
Lab File: BE090034.D
Acq: 1 Jul 2015 6:35

Tgt Ion:228 Resp: 147804
Ion Ratio Lower Upper
228 100
226 30.2 23.4 35.0
229 22.2 16.2 24.2





#30

Bis(2-ethylhexyl)phthalate

Concen: 0.37 ng

RT: 21.05 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

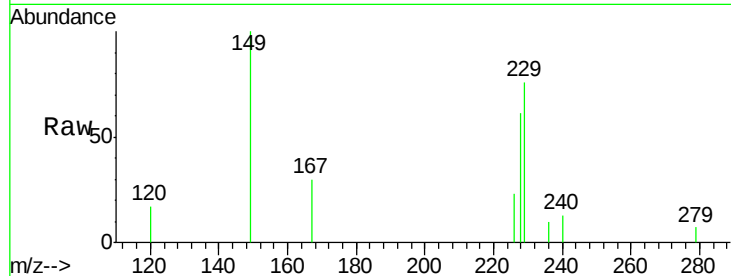
Tgt Ion:149 Resp: 832

Ion Ratio Lower Upper

149 100

167 24.8 20.3 30.5

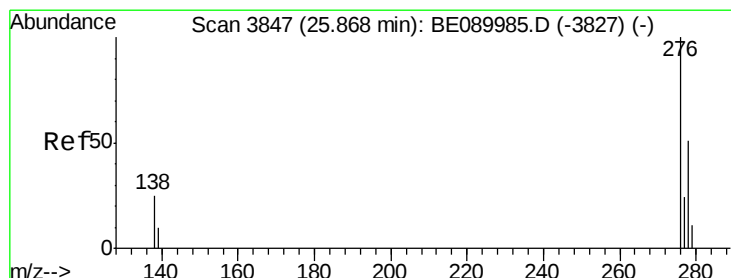
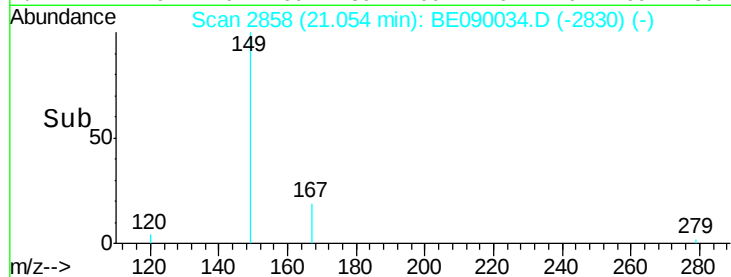
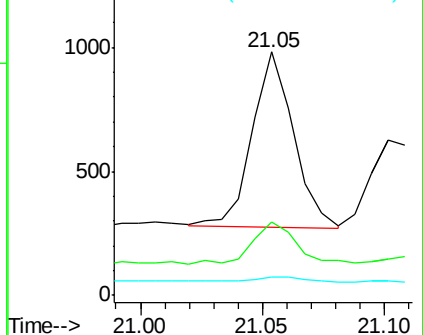
279 3.7 2.6 3.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#31

Indeno(1,2,3-cd)pyrene

Concen: 3.16 ng

RT: 25.84 min Scan# 3839

Delta R.T. -0.03 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

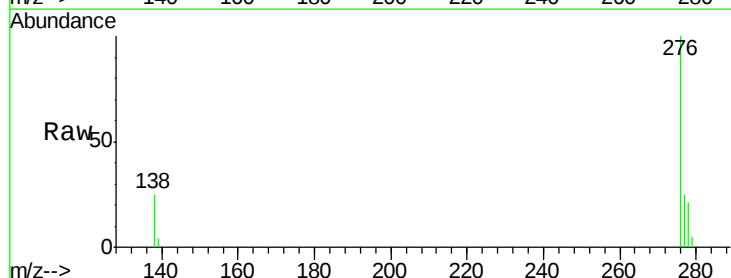
Tgt Ion:276 Resp: 84120

Ion Ratio Lower Upper

276 100

138 24.6 21.3 31.9

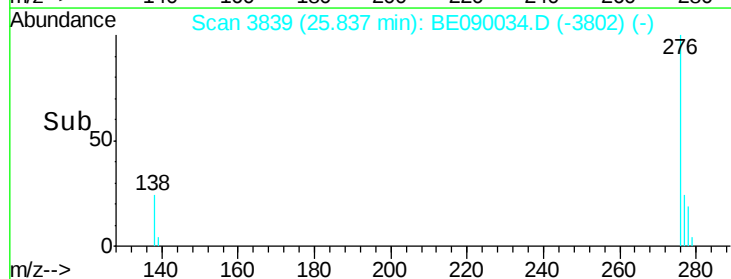
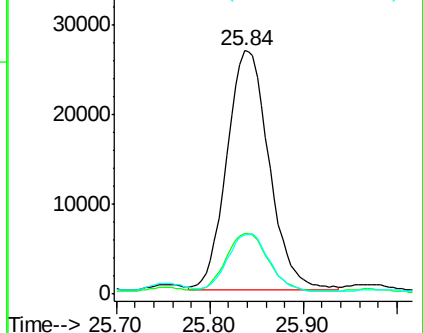
277 23.8 19.7 29.5

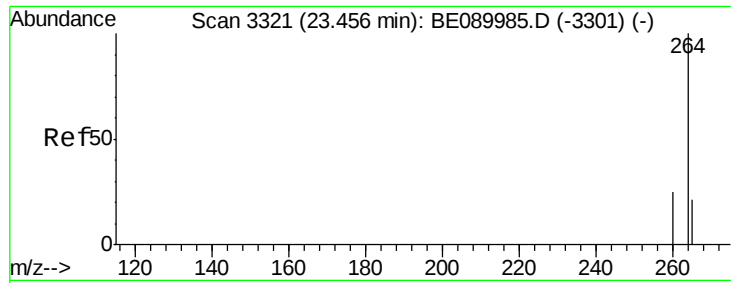


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#32

Perylene-d12

Concen: 5.00 ng

RT: 23.44 min Scan# 3317

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

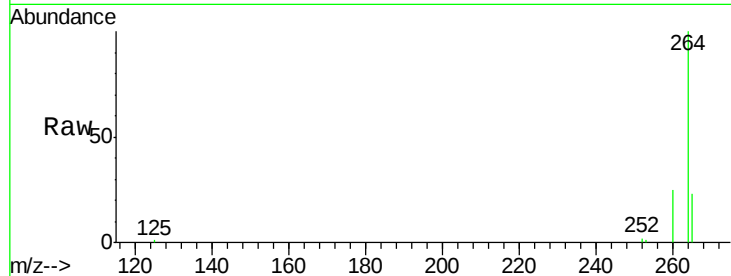
Tgt Ion:264 Resp: 107442

Ion Ratio Lower Upper

264 100

260 25.1 20.2 30.2

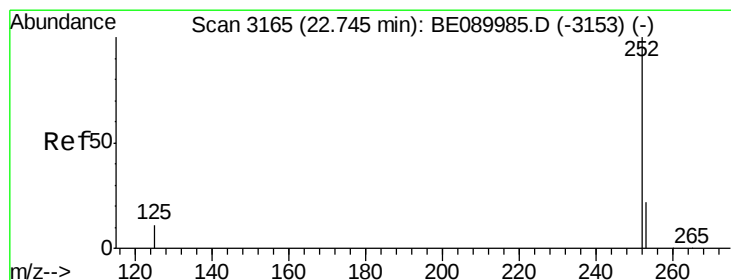
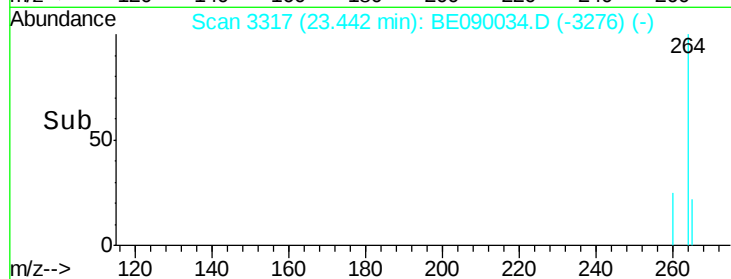
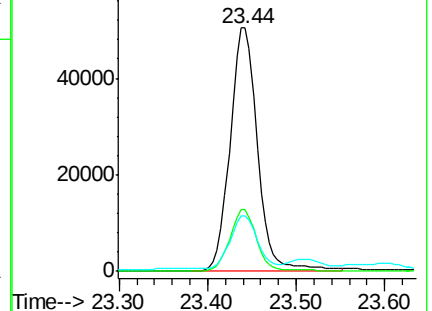
265 22.6 17.1 25.7



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#33

Benzo(b)fluoranthene

Concen: 8.38 ng

RT: 22.74 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

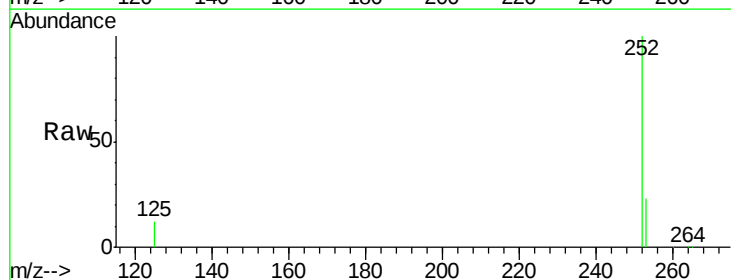
Tgt Ion:252 Resp: 198664

Ion Ratio Lower Upper

252 100

253 23.2 17.8 26.8

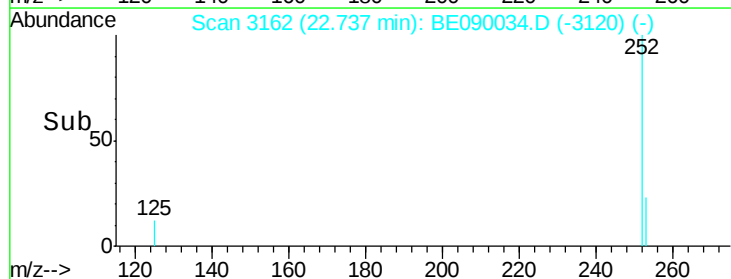
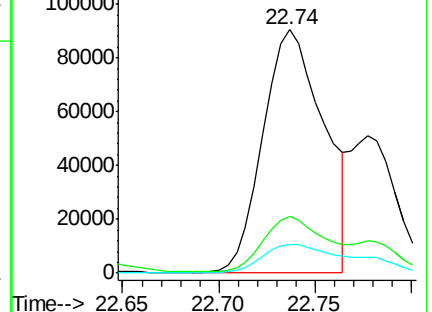
125 12.0 9.0 13.4

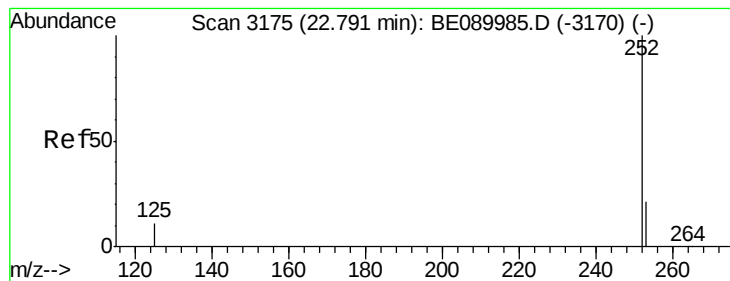


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#34

Benzo(k)fluoranthene

Concen: 7.50 ng

RT: 22.74 min Scan# 3162

Delta R.T. -0.05 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

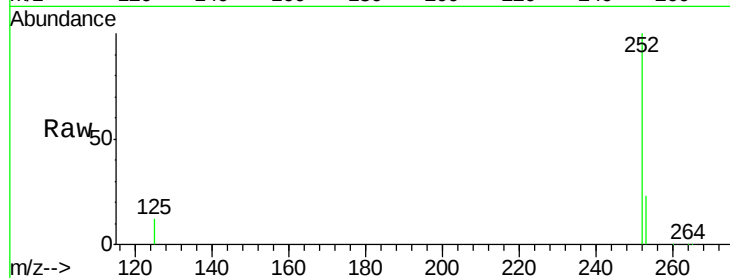
Tgt Ion:252 Resp: 198664

Ion Ratio Lower Upper

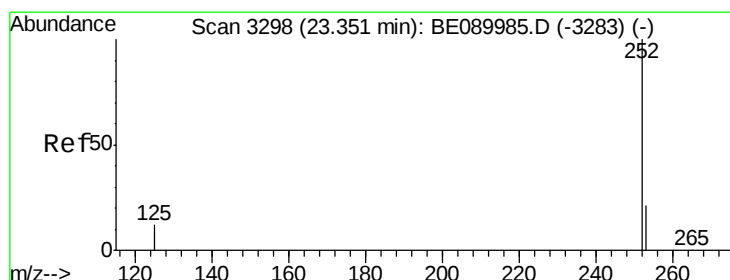
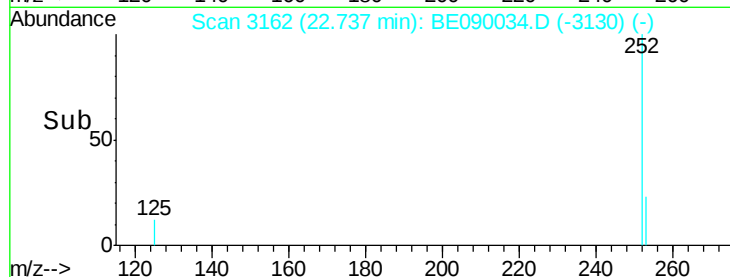
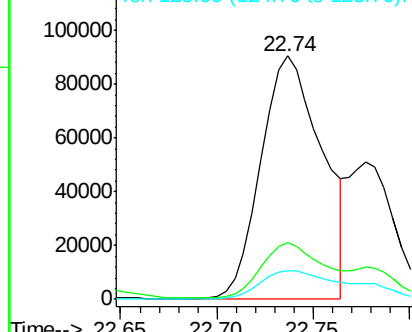
252 100

253 23.2 17.5 26.3

125 12.0 9.5 14.3



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



#35

Benzo(a)pyrene

Concen: 6.22 ng

RT: 23.33 min Scan# 3293

Delta R.T. -0.02 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

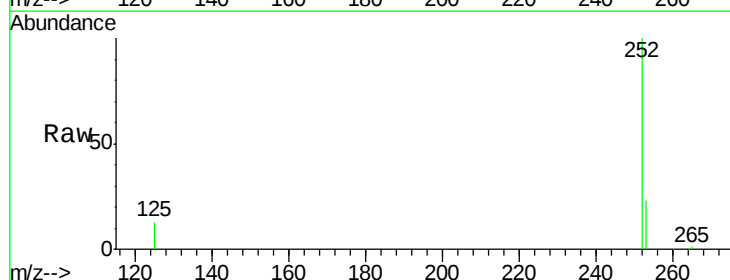
Tgt Ion:252 Resp: 136232

Ion Ratio Lower Upper

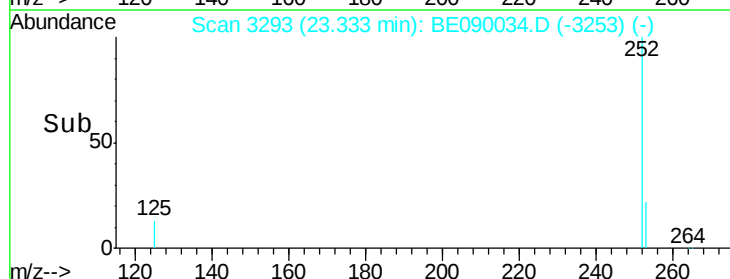
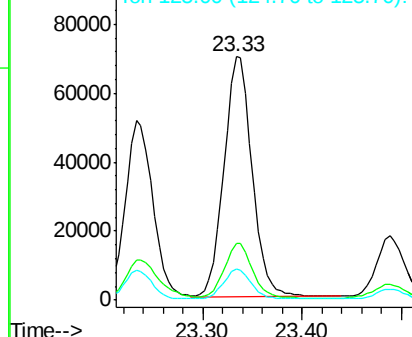
252 100

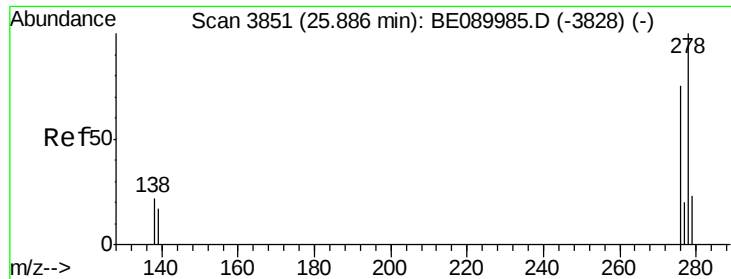
253 23.4 17.4 26.2

125 12.9 10.5 15.7



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





#36

Dibenzo(a,h)anthracene

Concen: 1.07 ng

RT: 25.86 min Scan# 3844

Delta R.T. -0.03 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

Instrument :

BNA_F

ClientSampleId :

X1SS0660006-150626

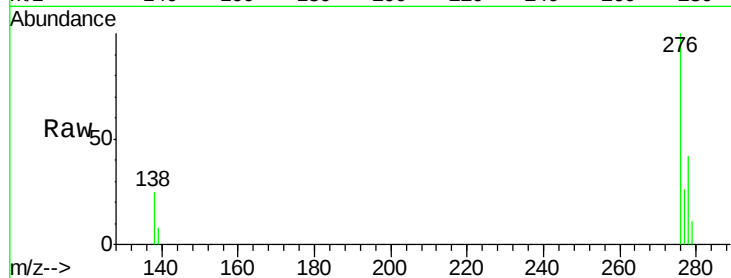
Tgt Ion: 278 Resp: 24060

Ion Ratio Lower Upper

278 100

139 19.5 14.4 21.6

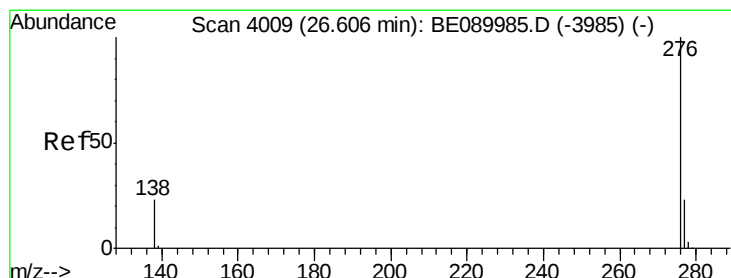
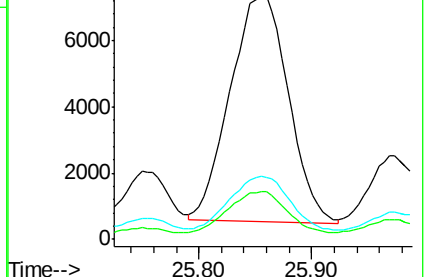
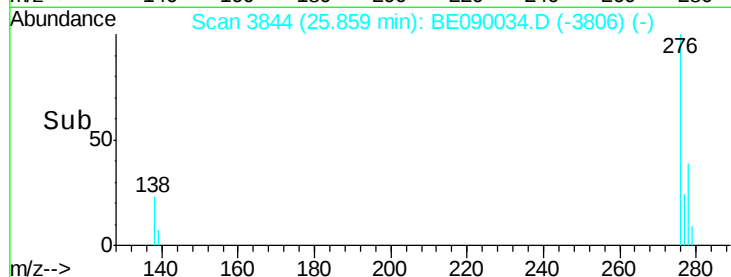
279 25.5 19.0 28.6



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



#37

Benzo(g,h,i)perylene

Concen: 3.55 ng

RT: 26.58 min Scan# 4003

Delta R.T. -0.02 min

Lab File: BE090034.D

Acq: 1 Jul 2015 6:35

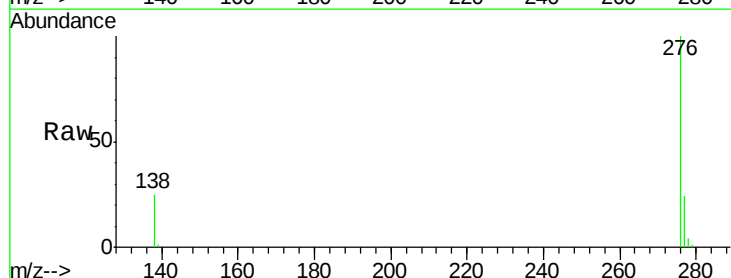
Tgt Ion: 276 Resp: 80806

Ion Ratio Lower Upper

276 100

277 24.3 18.8 28.2

138 24.9 18.6 27.8



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

