

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE070115\
 Data File : BE090048.D
 Acq On : 1 Jul 2015 19:33
 Operator : TP/IZ
 Sample : G2824-11DL 4X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0660624-150626DL

Quant Time: Jul 02 05:16:14 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	15066	5.00	ng	0.00
6) Naphthalene-d8	10.37	136	67140	5.00	ng	-0.01
12) Acenaphthene-d10	14.23	164	38257	5.00	ng	0.00
18) Phenanthrene-d10	16.96	188	86562	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	106407	5.00	ng	-0.01
32) Perylene-d12	23.44	264	101384	5.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.24	112	5470	1.58	ng	0.00
5) Phenol-d6	6.80	99	8040	1.66	ng	0.00
7) Nitrobenzene-d5	8.75	82	4780	0.90	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	1430	1.28	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	11274	0.98	ng	0.00
27) Terphenyl-d14	19.58	244	16914	0.95	ng	-0.01

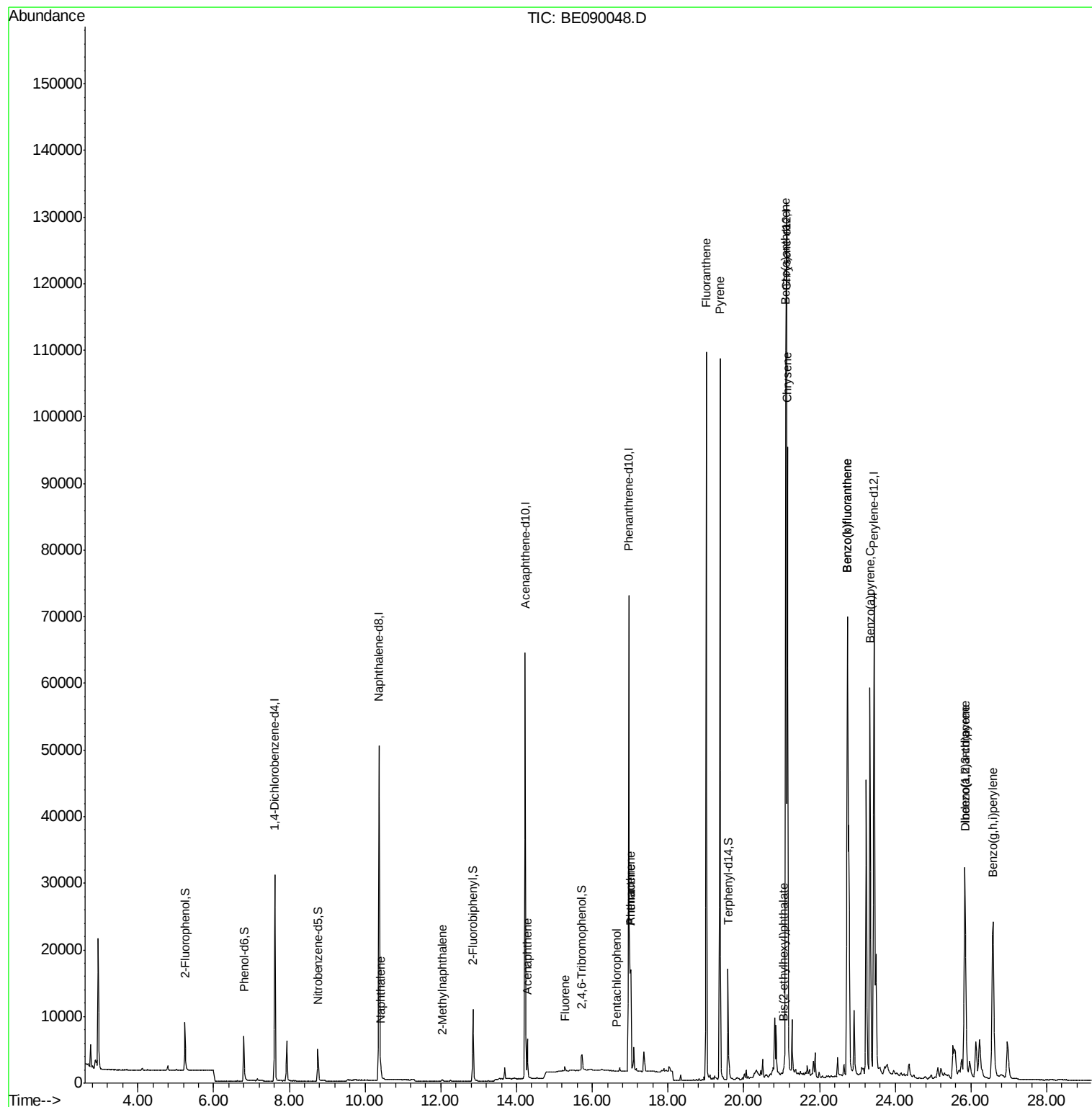
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.42	128	1264	0.08	ng	# 86
11) 2-Methylnaphthalene	12.04	142	230	0.02	ng	# 84
16) Acenaphthene	14.28	154	1043	0.10	ng	98
17) Fluorene	15.27	166	556	0.04	ng	# 68
21) Pentachlorophenol	16.65	266	21	0.27	ng	# 56
22) Phenanthrene	17.01	178	23038	1.04	ng	99
23) Anthracene	17.01	178	23038	1.14	ng	98
24) Fluoranthene	19.01	202	96062	3.88	ng	100
26) Pyrene	19.37	202	94413	3.72	ng	# 96
28) Benzo(a)anthracene	21.10	228	77567	2.92	ng	98
29) Chrysene	21.16	228	84106	3.05	ng	98
30) Bis(2-ethylhexyl)phthalate	21.05	149	821	0.37	ng	92
31) Indeno(1,2,3-cd)pyrene	25.84	276	53135	2.01	ng	97
33) Benzo(b)fluoranthene	22.73	252	118416	5.29	ng	98
34) Benzo(k)fluoranthene	22.73	252	118416	4.74	ng	98
35) Benzo(a)pyrene	23.33	252	81089	3.93	ng	98
36) Dibenzo(a,h)anthracene	25.85	278	12886	0.61	ng	95
37) Benzo(g,h,i)perylene	26.57	276	54638	2.54	ng	97

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

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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: BE090048.D

Acq: 1 Jul 2015 19:33

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

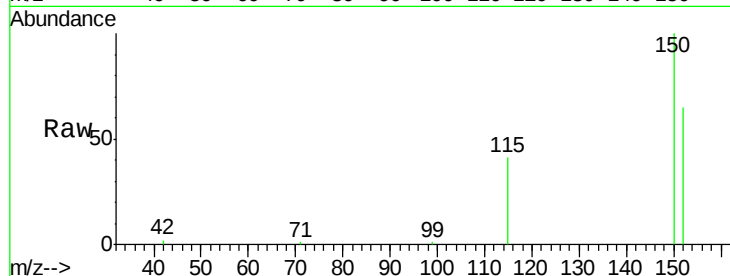
Tgt Ion:152 Resp: 15066

Ion Ratio Lower Upper

152 100

150 152.8 123.9 185.9

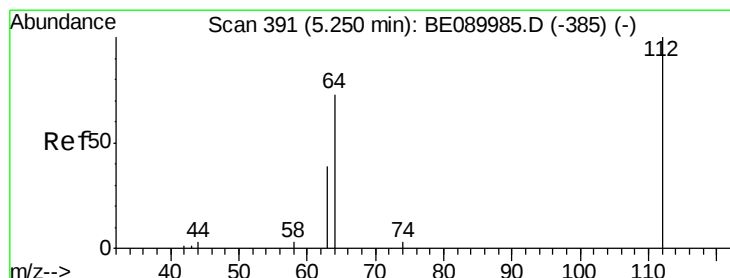
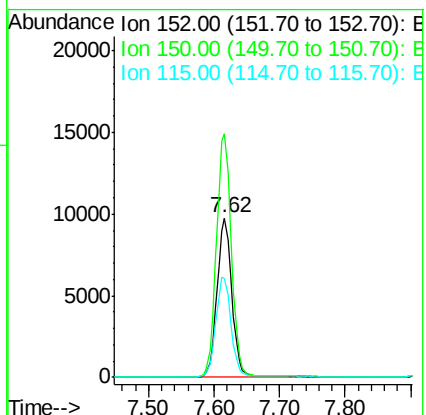
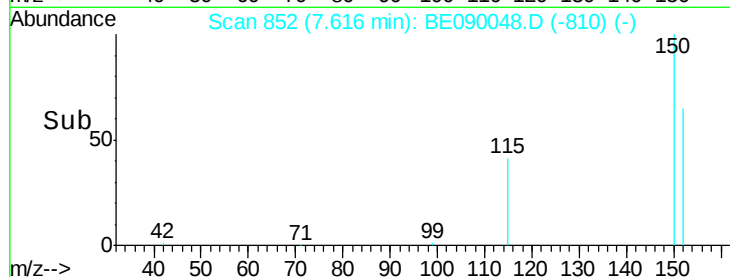
115 62.3 50.6 76.0



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: 1.58 ng

RT: 5.24 min Scan# 390

Delta R.T. -0.01 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

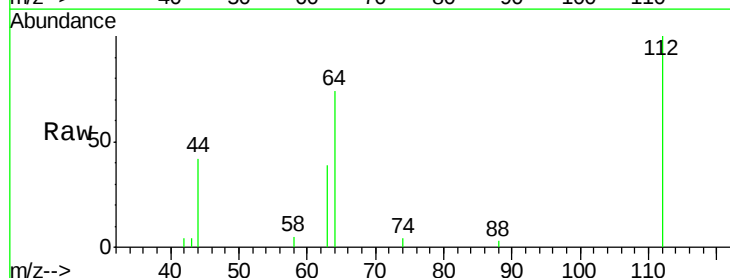
Tgt Ion:112 Resp: 5470

Ion Ratio Lower Upper

112 100

64 70.0 56.3 84.5

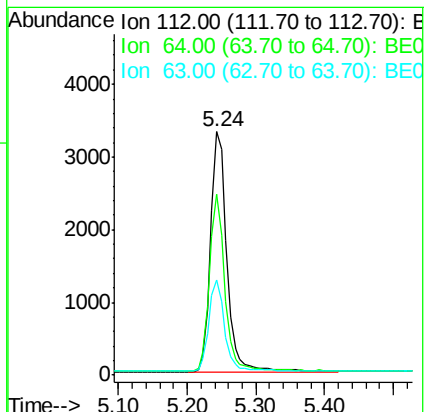
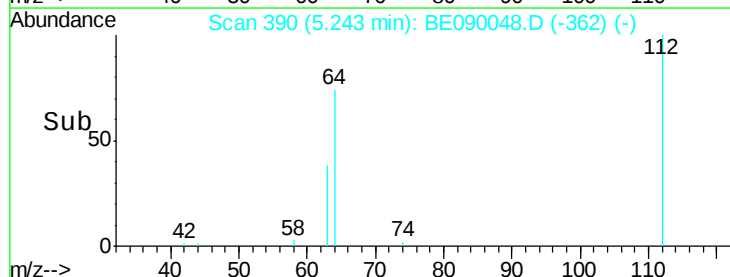
63 37.1 29.8 44.6

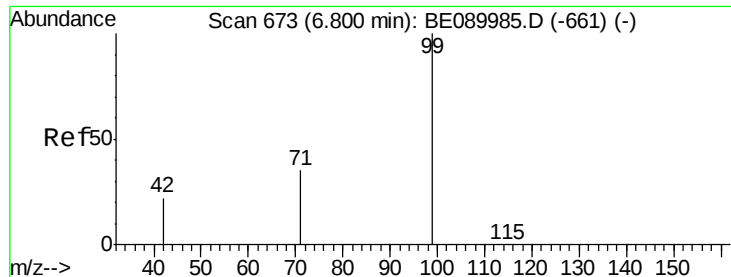


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 1.66 ng

RT: 6.80 min Scan# 672

Delta R.T. -0.00 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

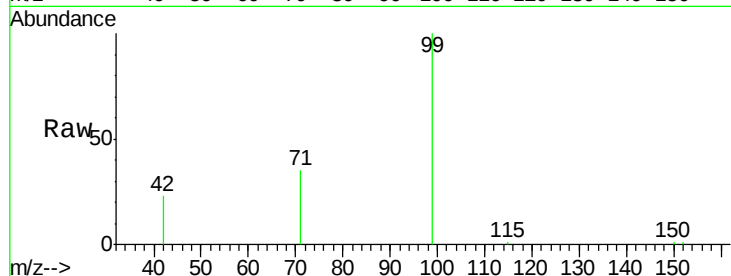
Tgt Ion: 99 Resp: 8040

Ion Ratio Lower Upper

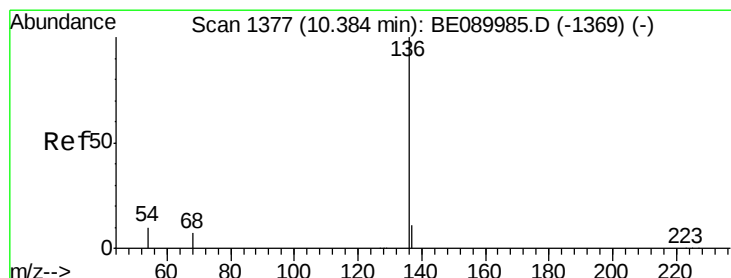
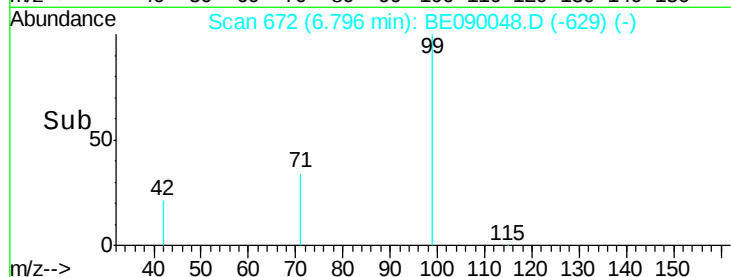
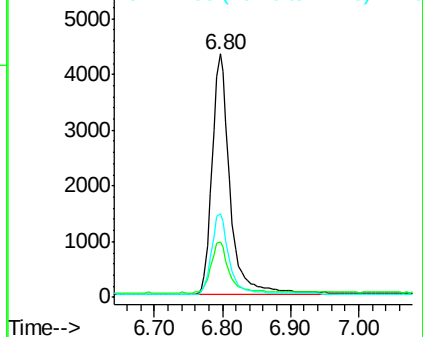
99 100

42 20.9 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. -0.01 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

Tgt Ion: 136 Resp: 67140

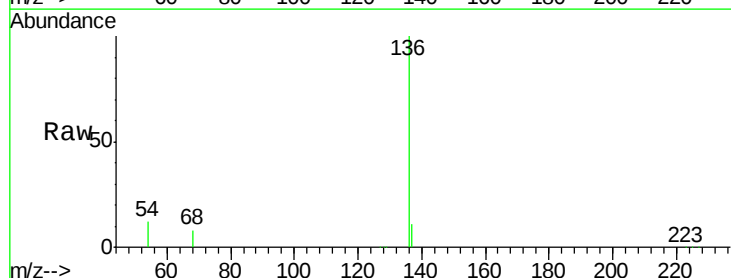
Ion Ratio Lower Upper

136 100

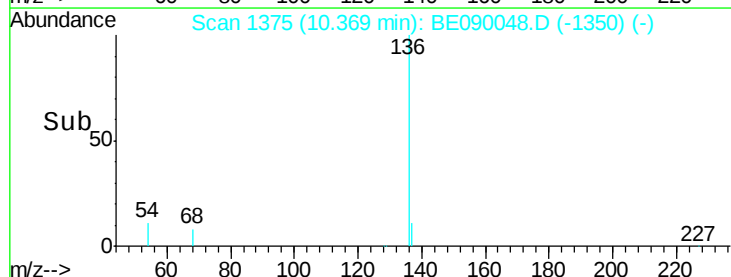
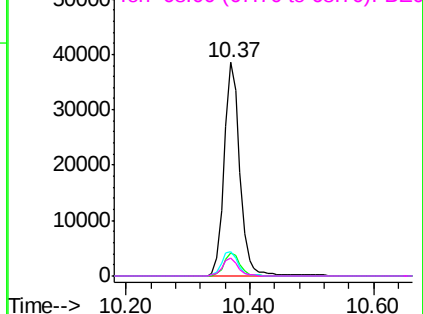
137 10.8 8.9 13.3

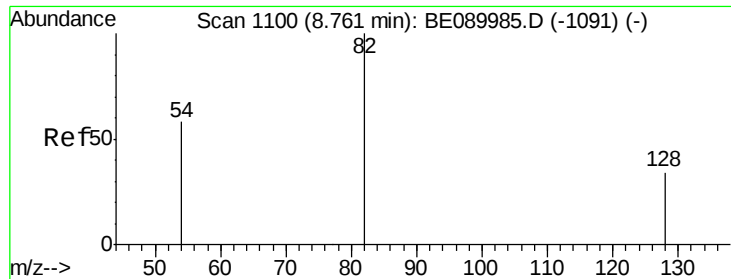
54 11.5 8.2 12.4

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: 0.90 ng

RT: 8.75 min Scan# 1098

Delta R.T. -0.01 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

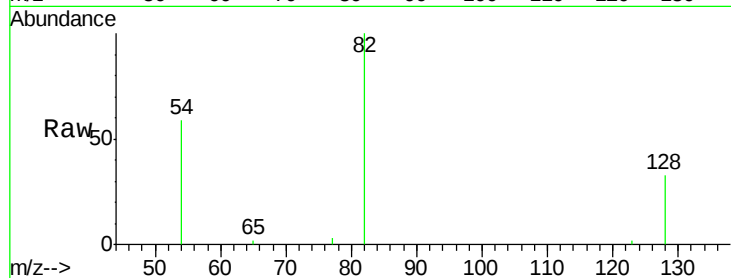
Tgt Ion: 82 Resp: 4780

Ion Ratio Lower Upper

82 100

128 33.1 28.0 42.0

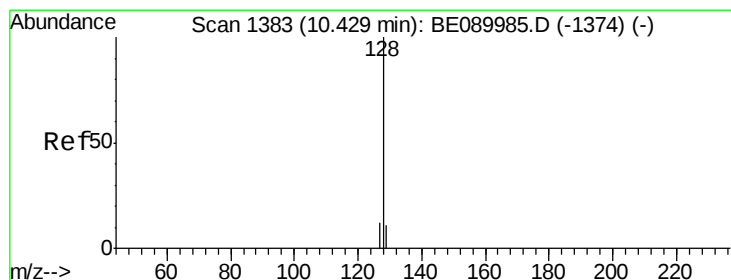
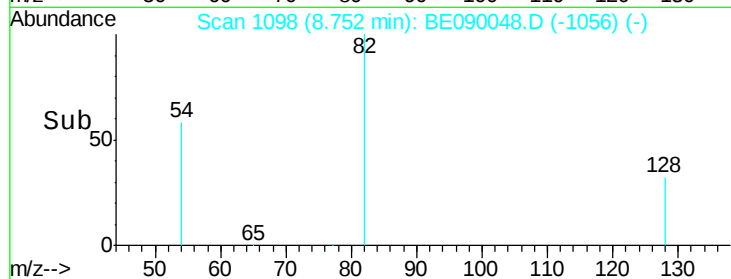
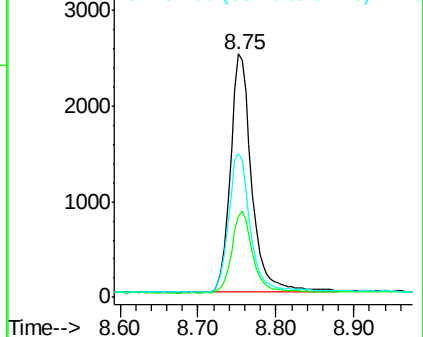
54 59.3 47.6 71.4



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: 0.08 ng

RT: 10.42 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

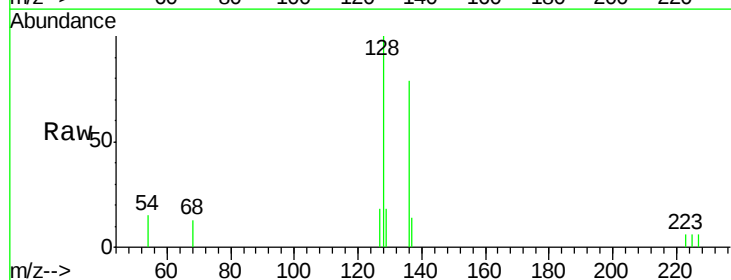
Tgt Ion: 128 Resp: 1264

Ion Ratio Lower Upper

128 100

129 17.7 9.3 13.9#

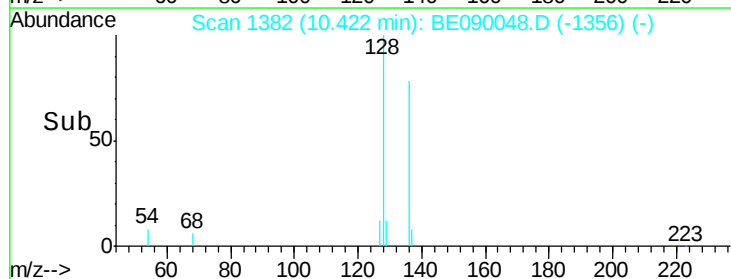
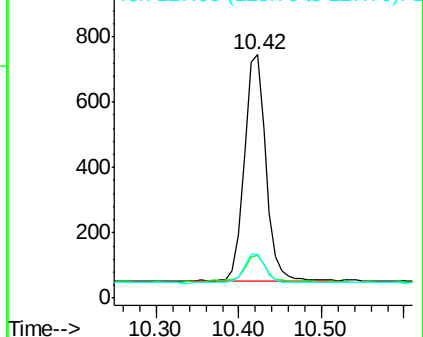
127 17.9 10.2 15.4#

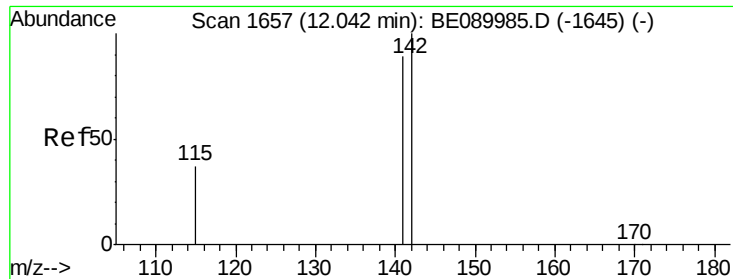


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

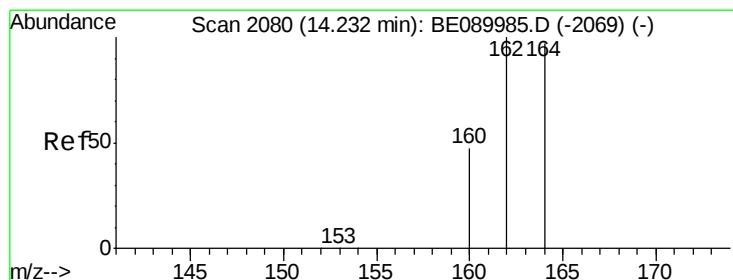
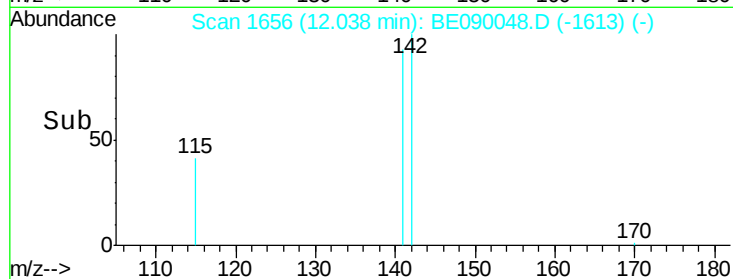
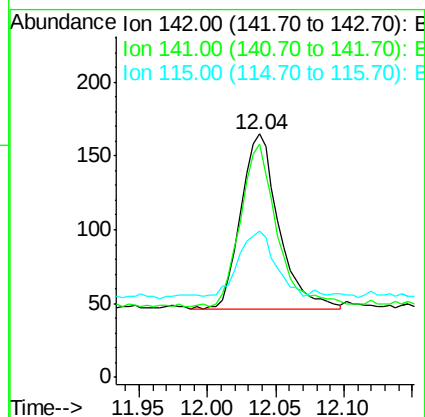
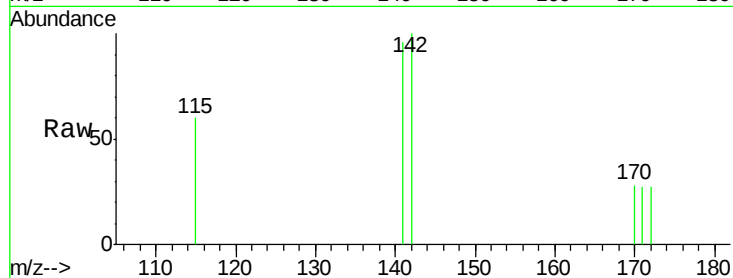




#11
2-Methylnaphthalene
Concen: 0.02 ng
RT: 12.04 min Scan# 1656
Delta R.T. -0.00 min
Lab File: BE090048.D
Acq: 1 Jul 2015 19:33

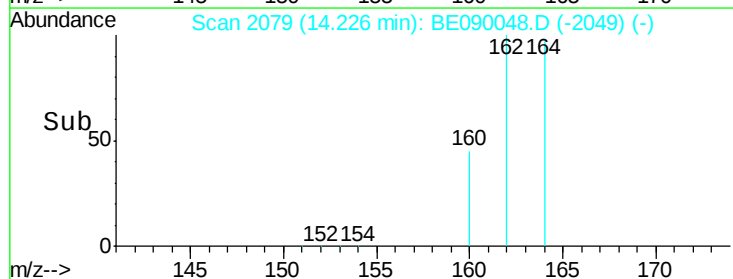
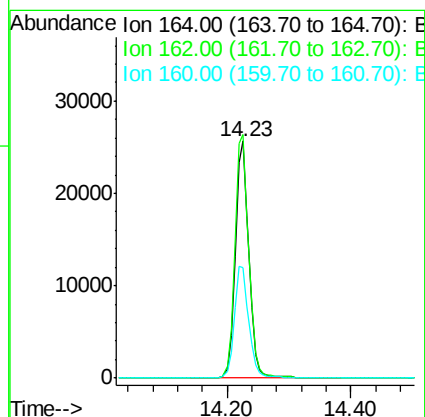
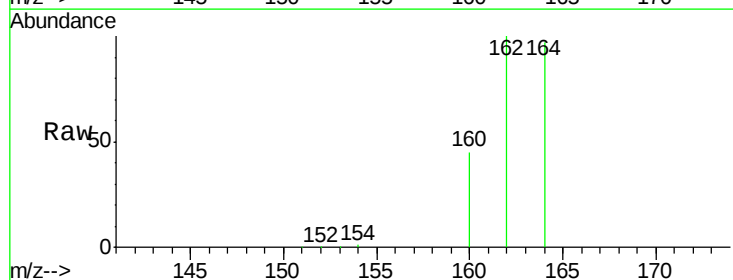
Instrument :
BNA_E
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X1SS0660624-150626DL

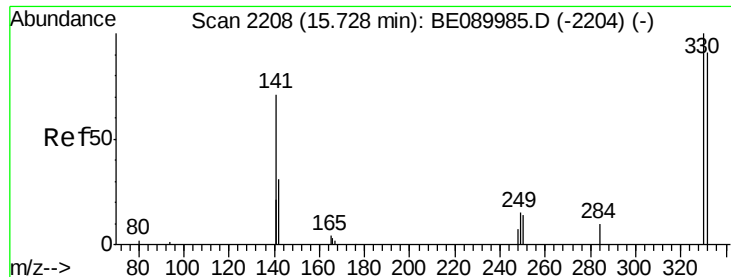
Tgt Ion:142 Resp: 230
Ion Ratio Lower Upper
142 100
141 95.8 71.3 106.9
115 60.0 30.4 45.6#



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.23 min Scan# 2079
Delta R.T. -0.01 min
Lab File: BE090048.D
Acq: 1 Jul 2015 19:33

Tgt Ion:164 Resp: 38257
Ion Ratio Lower Upper
164 100
162 102.7 82.2 123.4
160 46.6 39.0 58.6

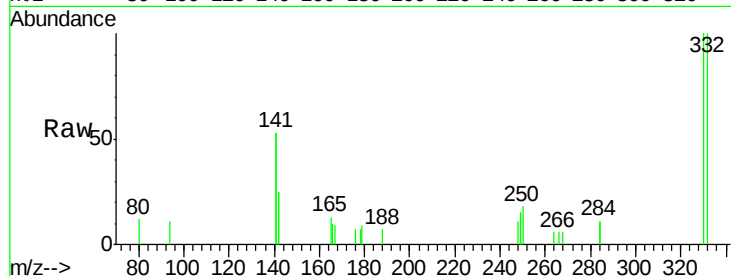




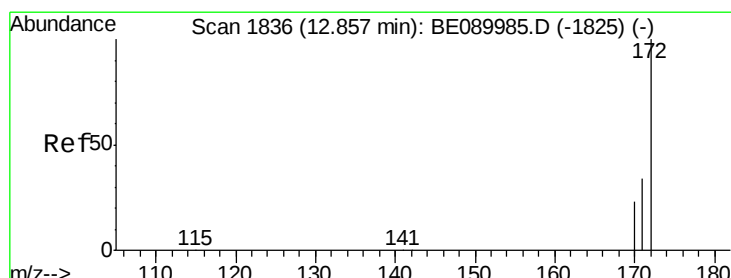
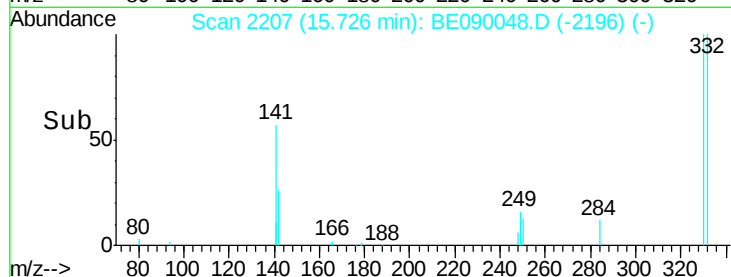
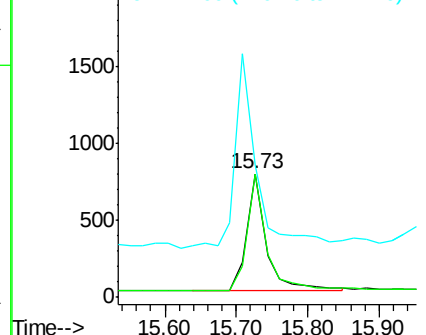
#13
 2,4,6-Tribromophenol
 Concen: 1.28 ng
 RT: 15.73 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE090048.D
 Acq: 1 Jul 2015 19:33

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0660624-150626DL

Tgt Ion: 330 Resp: 1430
 Ion Ratio Lower Upper
 330 100
 332 100.1 76.4 114.6
 141 184.8 130.3 195.5

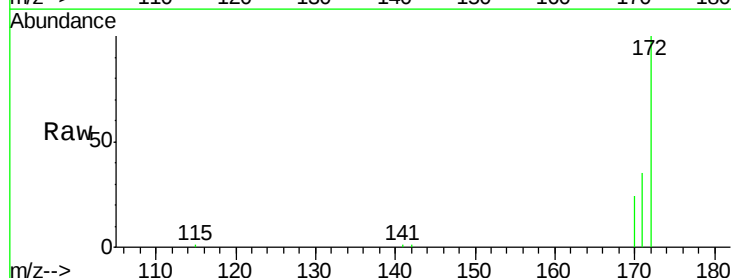


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

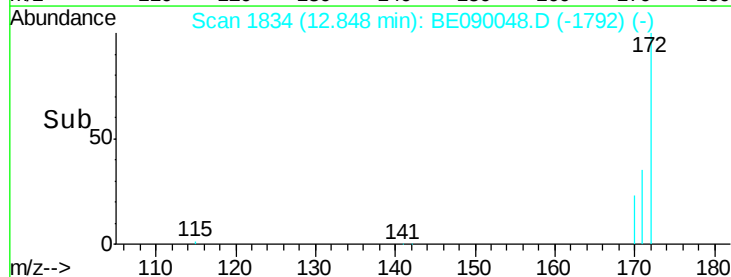
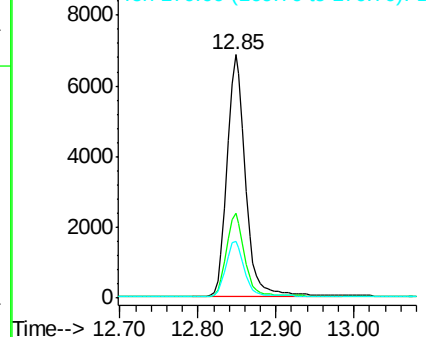


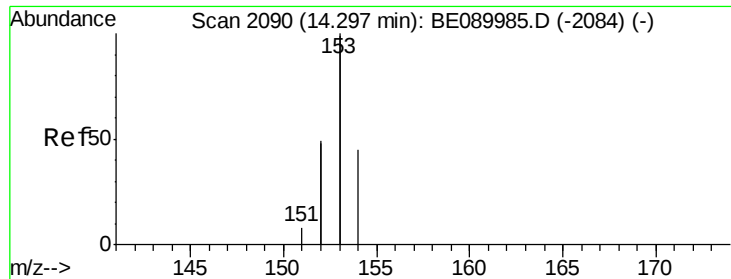
#14
 2-Fluorobiphenyl
 Concen: 0.98 ng
 RT: 12.85 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BE090048.D
 Acq: 1 Jul 2015 19:33

Tgt Ion: 172 Resp: 11274
 Ion Ratio Lower Upper
 172 100
 171 35.0 27.8 41.6
 170 23.5 18.3 27.5



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





#16

Acenaphthene

Concen: 0.10 ng

RT: 14.28 min Scan# 2088

Delta R.T. -0.01 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

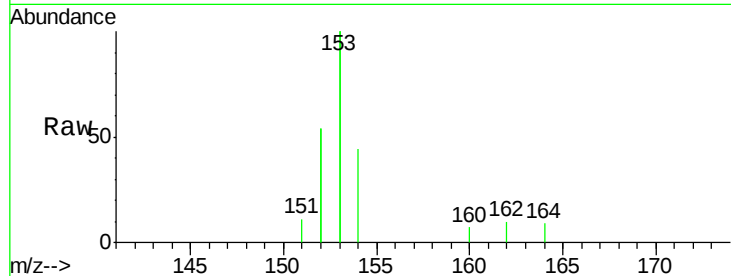
Tgt Ion:154 Resp: 1043

Ion Ratio Lower Upper

154 100

153 445.5 358.6 538.0

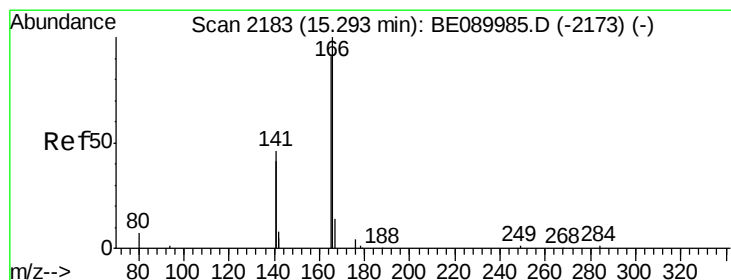
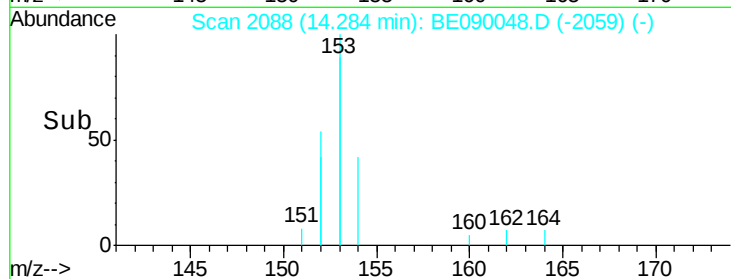
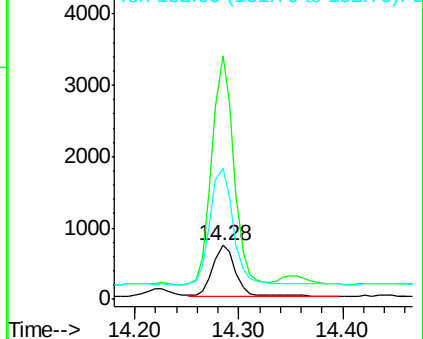
152 244.7 189.6 284.4



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: 0.04 ng

RT: 15.27 min Scan# 2181

Delta R.T. -0.02 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

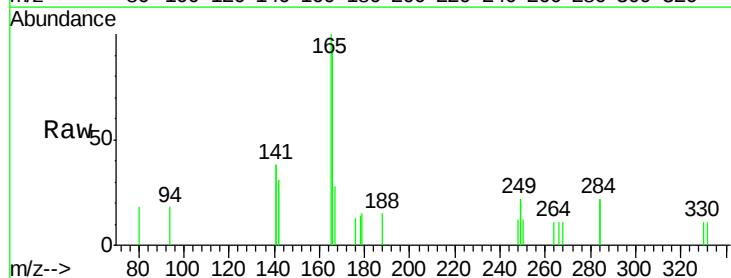
Tgt Ion:166 Resp: 556

Ion Ratio Lower Upper

166 100

165 130.2 79.0 118.6#

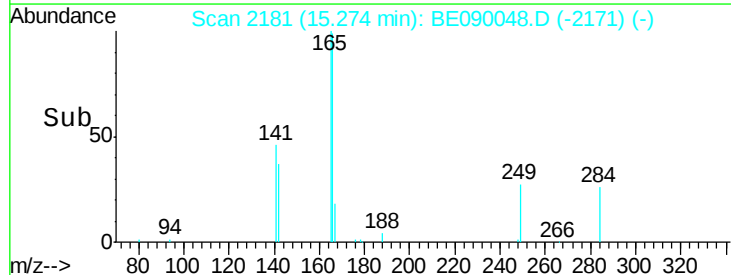
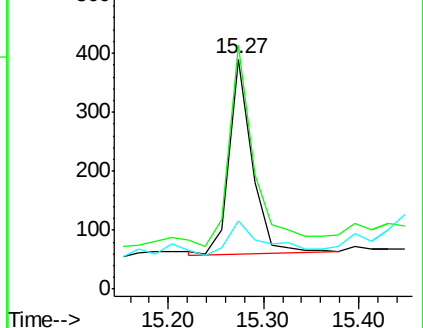
167 28.6 11.8 17.8#

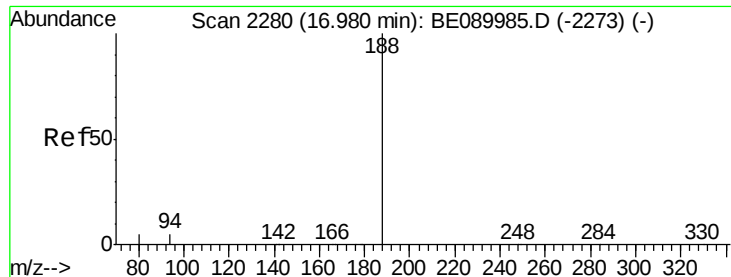


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

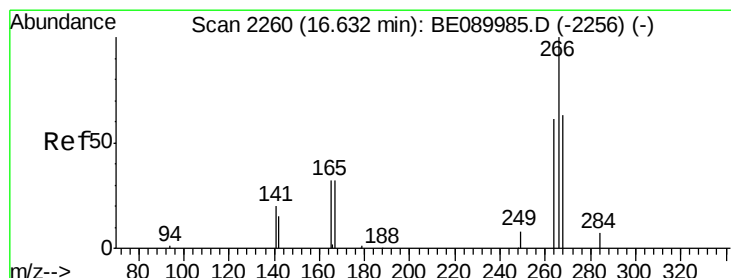
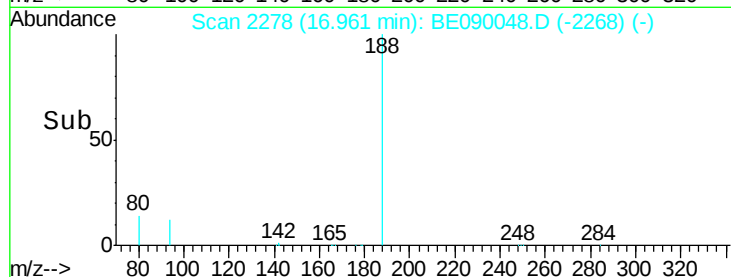
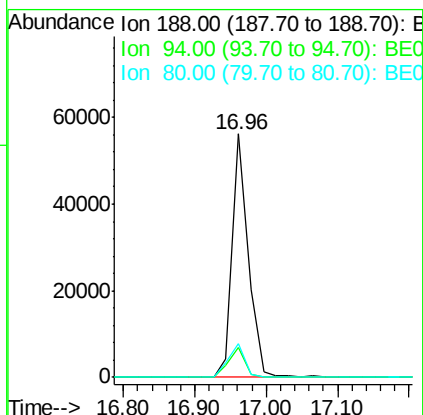
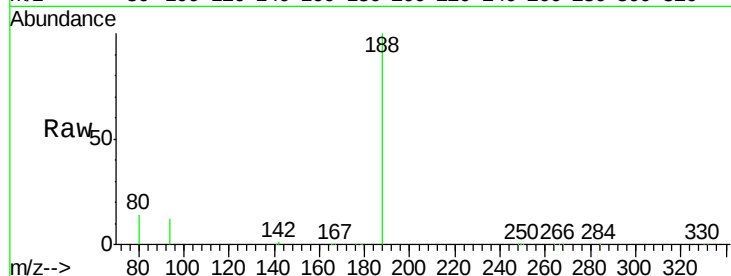




#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.96 min Scan# 2278
Delta R.T. -0.02 min
Lab File: BE090048.D
Acq: 1 Jul 2015 19:33

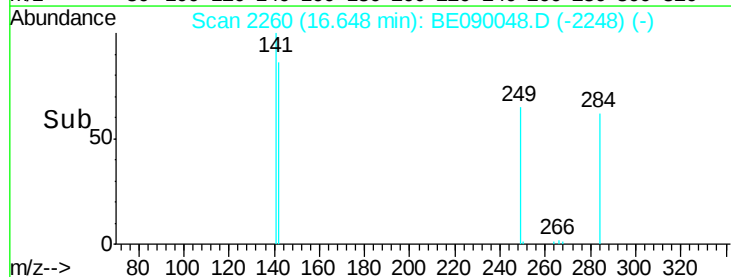
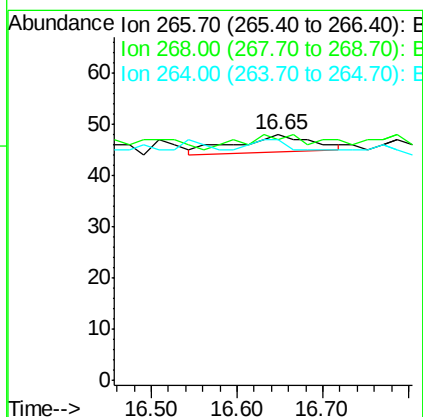
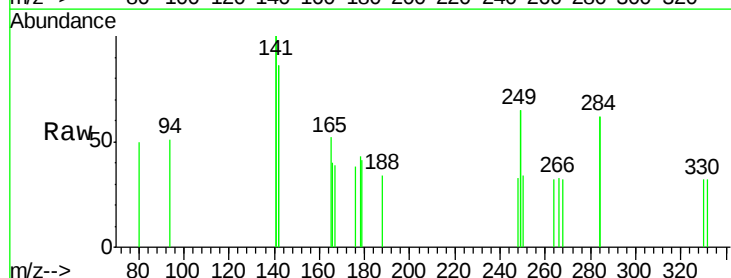
Instrument :
BNA_E
ClientSampleId :
X1SS0660624-150626DL

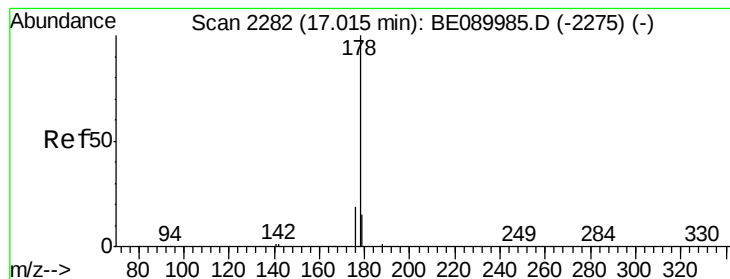
Tgt Ion:188 Resp: 86562
Ion Ratio Lower Upper
188 100
94 12.3 4.1 6.1#
80 13.8 4.2 6.2#



#21
Pentachlorophenol
Concen: 0.27 ng
RT: 16.65 min Scan# 2260
Delta R.T. 0.02 min
Lab File: BE090048.D
Acq: 1 Jul 2015 19:33

Tgt Ion:266 Resp: 21
Ion Ratio Lower Upper
266 100
268 97.9 51.8 77.8#
264 97.9 50.2 75.2#





#22

Phenanthrene

Concen: 1.04 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

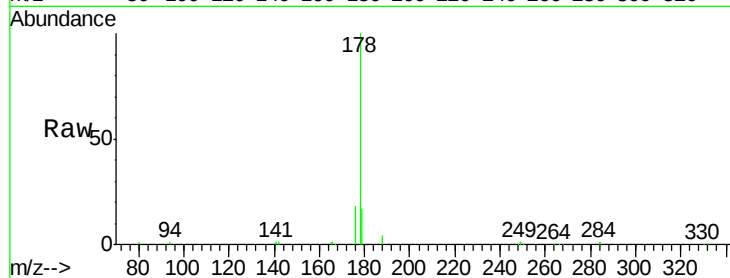
Tgt Ion:178 Resp: 23038

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

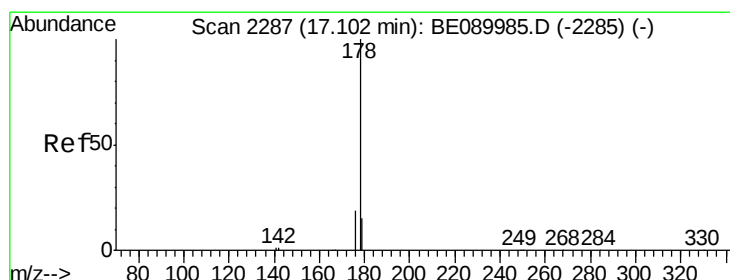
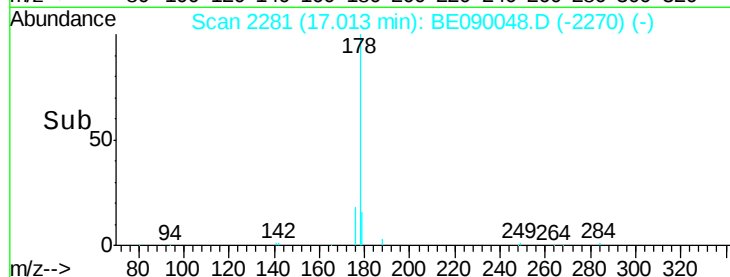
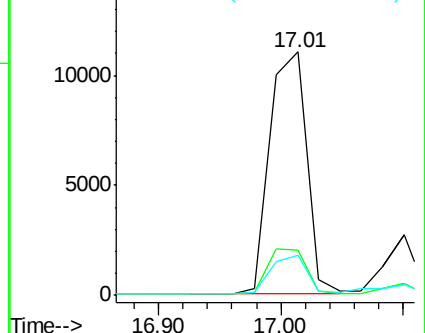
179 16.0 12.4 18.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#23

Anthracene

Concen: 1.14 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.09 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

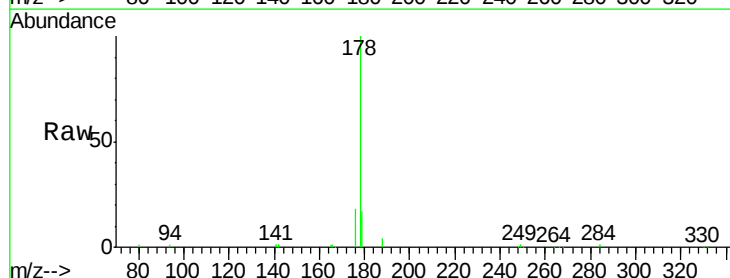
Tgt Ion:178 Resp: 23038

Ion Ratio Lower Upper

178 100

176 19.3 14.7 22.1

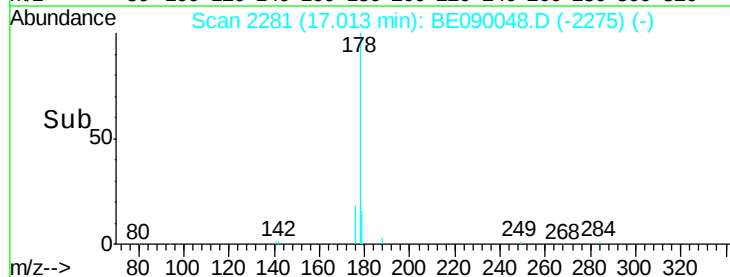
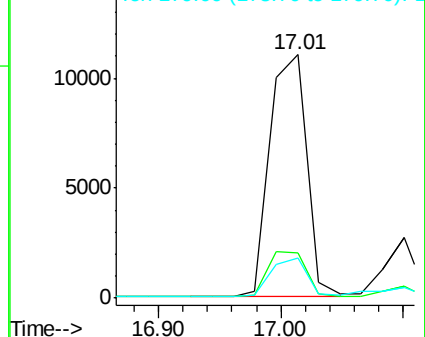
179 15.8 12.1 18.1

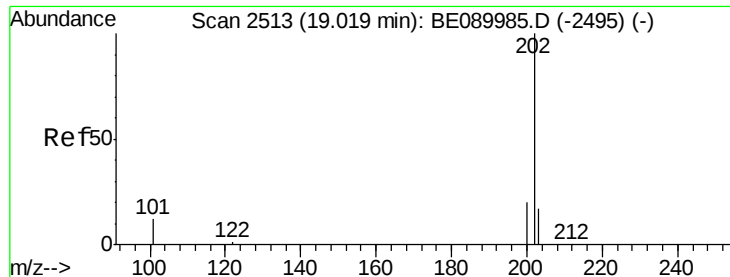


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#24

Fluoranthene

Concen: 3.88 ng

RT: 19.01 min Scan# 2510

Delta R.T. -0.01 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

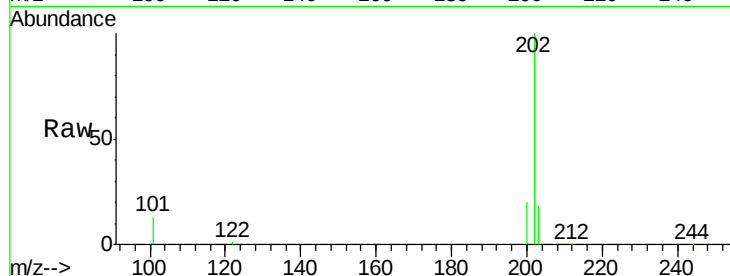
Tgt Ion:202 Resp: 96062

Ion Ratio Lower Upper

202 100

101 13.4 10.6 15.8

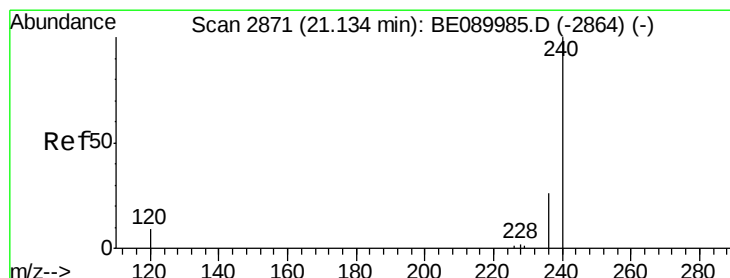
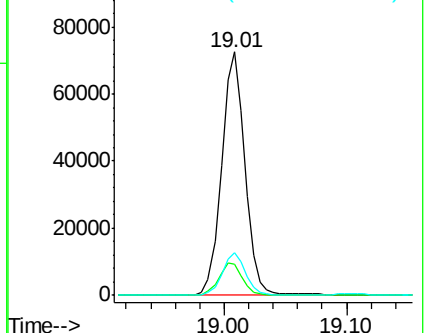
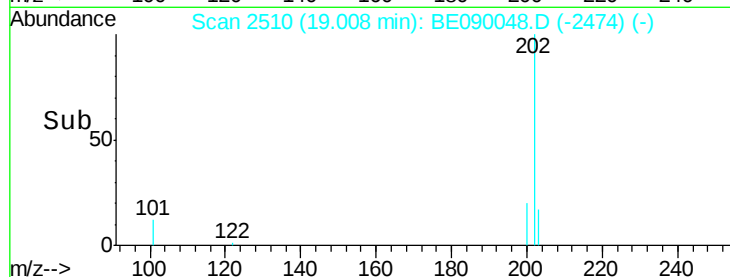
203 17.2 13.8 20.6



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: BE090048.D

Acq: 1 Jul 2015 19:33

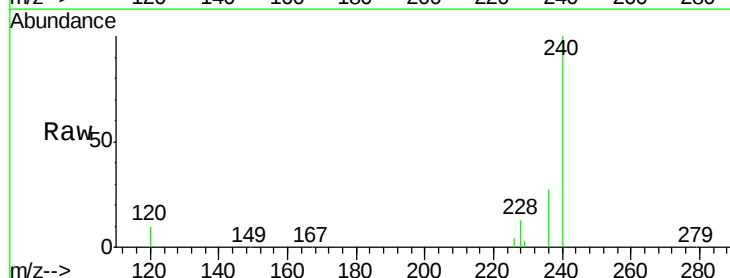
Tgt Ion:240 Resp: 106407

Ion Ratio Lower Upper

240 100

120 10.4 6.9 10.3#

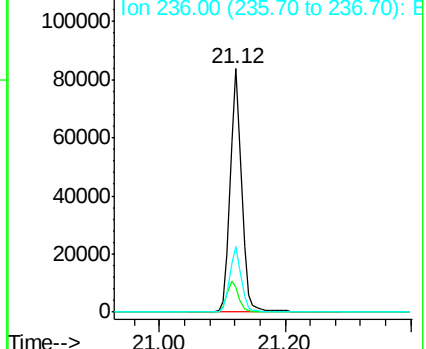
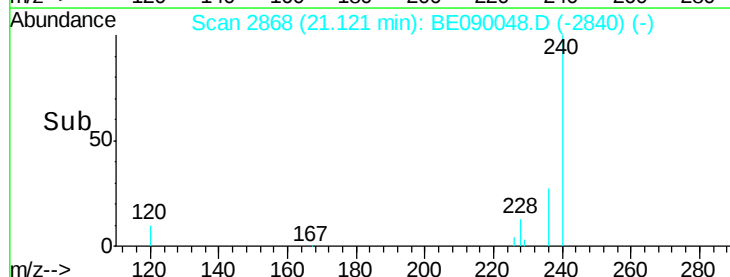
236 27.0 20.8 31.2

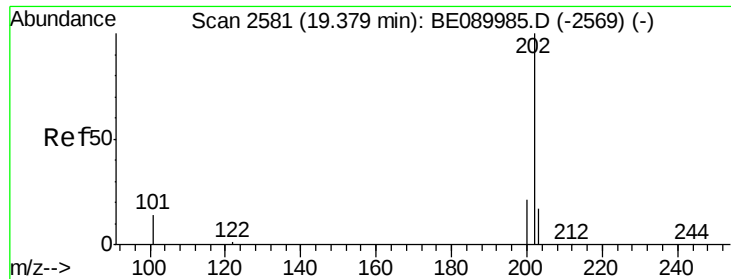


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

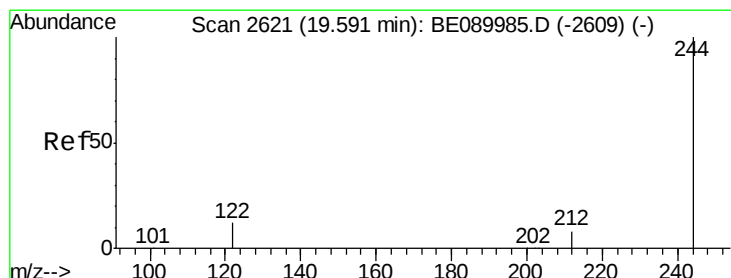
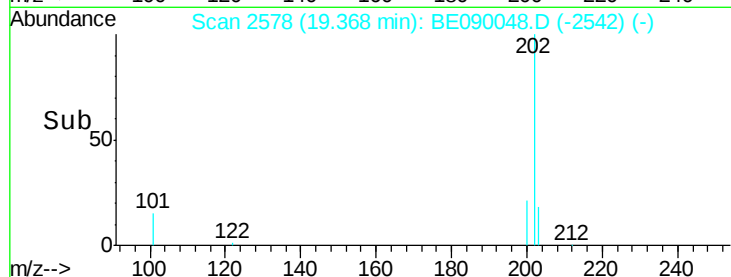
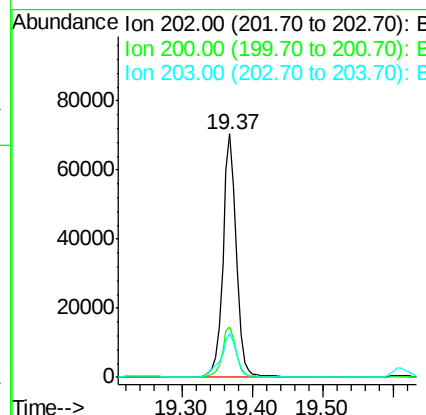
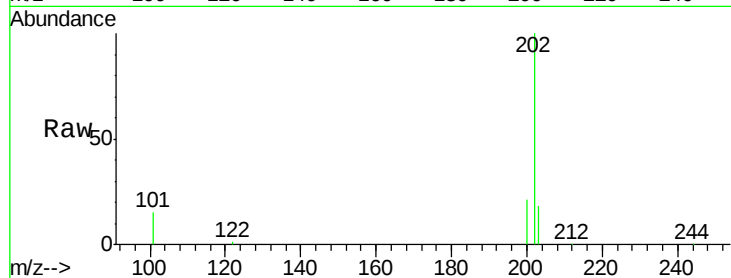




#26
 Pyrene
 Concen: 3.72 ng
 RT: 19.37 min Scan# 2578
 Delta R.T. -0.01 min
 Lab File: BE090048.D
 Acq: 1 Jul 2015 19:33

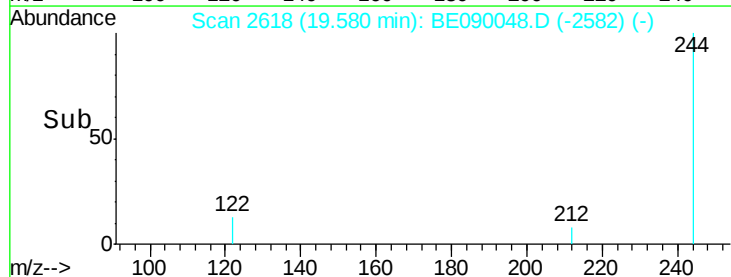
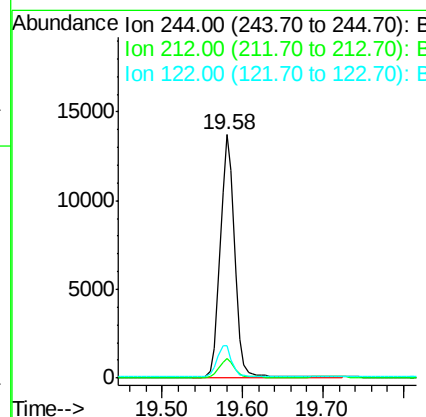
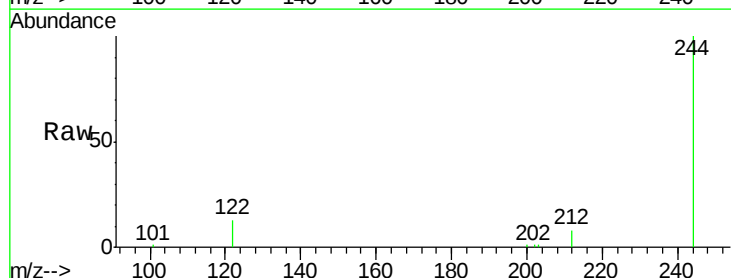
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0660624-150626DL

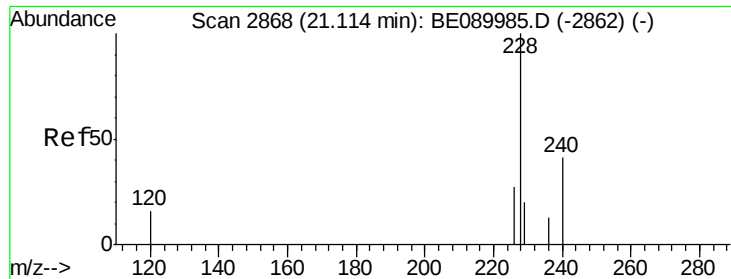
Tgt Ion: 202 Resp: 94413
 Ion Ratio Lower Upper
 202 100
 200 21.1 16.8 25.2
 203 21.1 13.9 20.9#



#27
 Terphenyl-d14
 Concen: 0.95 ng
 RT: 19.58 min Scan# 2618
 Delta R.T. -0.01 min
 Lab File: BE090048.D
 Acq: 1 Jul 2015 19:33

Tgt Ion: 244 Resp: 16914
 Ion Ratio Lower Upper
 244 100
 212 8.2 6.6 9.8
 122 13.2 9.8 14.8

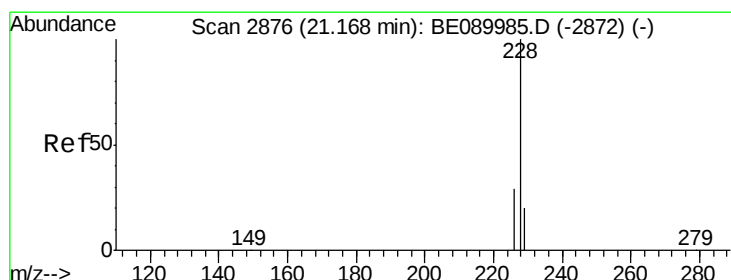
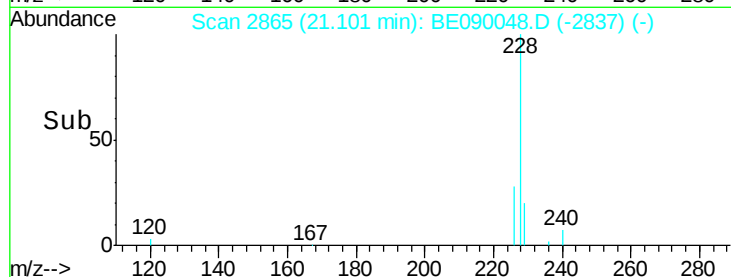
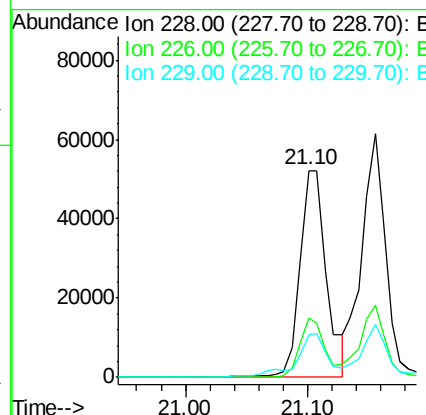
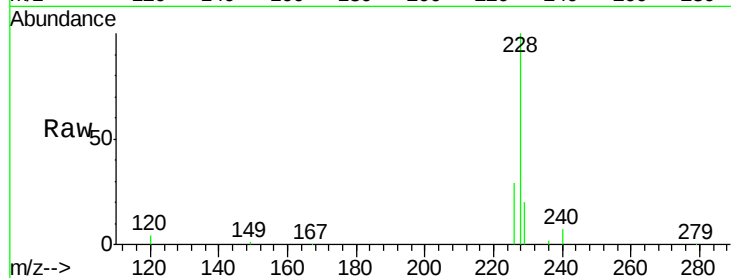




#28
Benzo(a)anthracene
Concen: 2.92 ng
RT: 21.10 min Scan# 2865
Delta R.T. -0.01 min
Lab File: BE090048.D
Acq: 1 Jul 2015 19:33

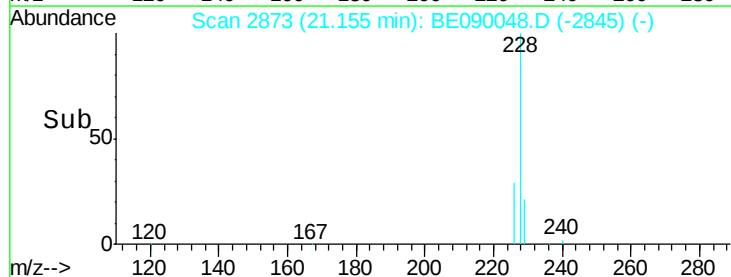
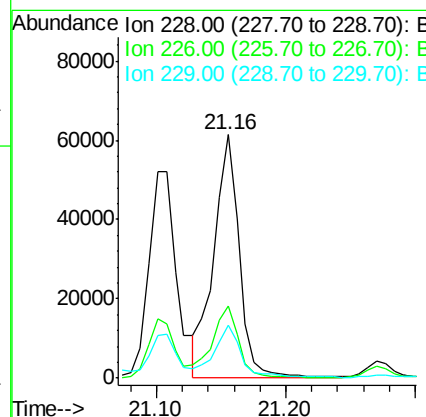
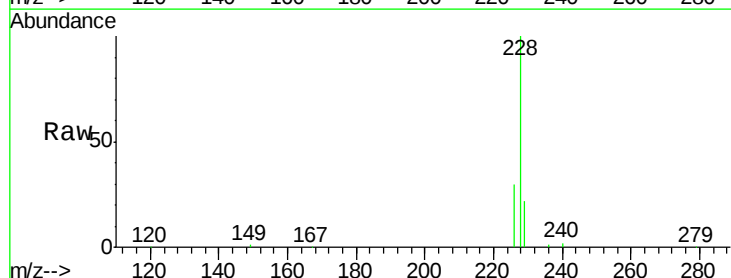
Instrument :
BNA_E
ClientSampleId :
X1SS0660624-150626DL

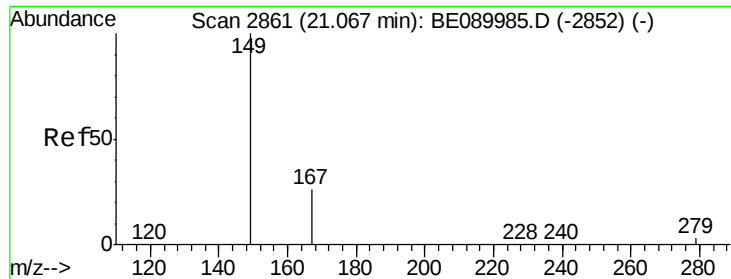
Tgt Ion:228 Resp: 77567
Ion Ratio Lower Upper
228 100
226 28.6 21.8 32.6
229 20.4 15.8 23.6



#29
Chrysene
Concen: 3.05 ng
RT: 21.16 min Scan# 2873
Delta R.T. -0.01 min
Lab File: BE090048.D
Acq: 1 Jul 2015 19:33

Tgt Ion:228 Resp: 84106
Ion Ratio Lower Upper
228 100
226 29.6 23.4 35.0
229 21.7 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: BE090048.D

Acq: 1 Jul 2015 19:33

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

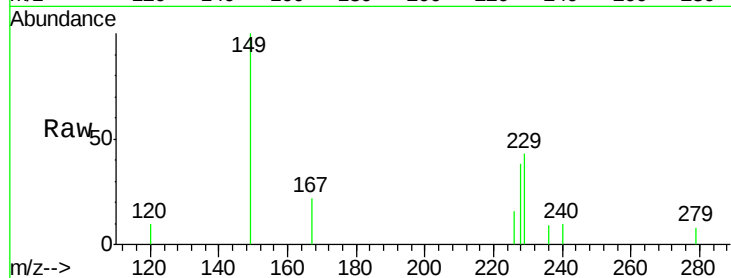
Tgt Ion:149 Resp: 821

Ion Ratio Lower Upper

149 100

167 20.7 20.3 30.5

279 2.8 2.6 3.8

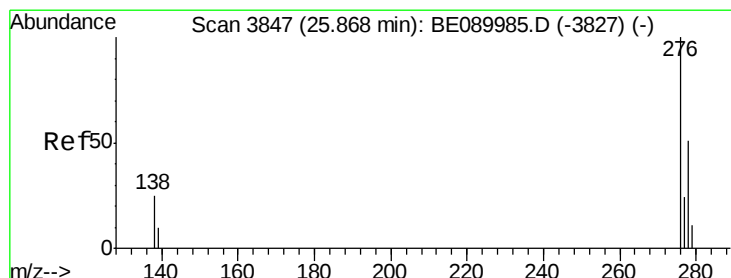
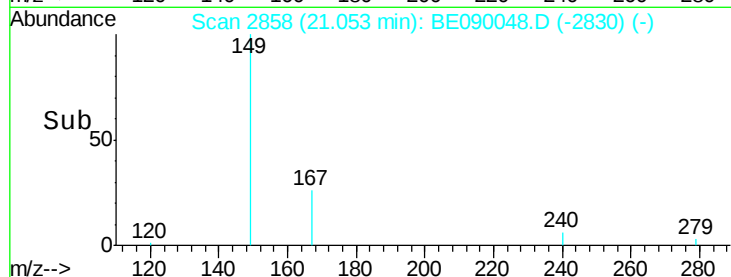
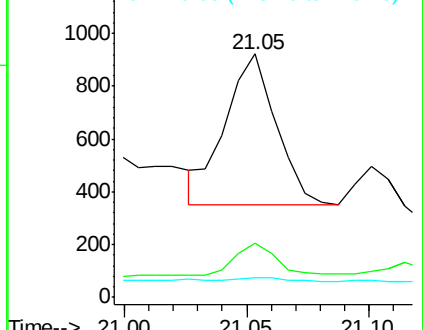


Abundance

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: 2.01 ng

RT: 25.84 min Scan# 3839

Delta R.T. -0.03 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

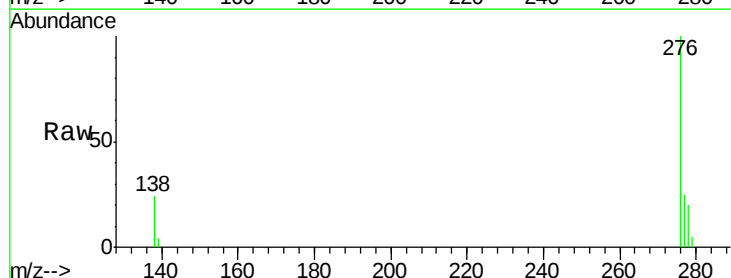
Tgt Ion:276 Resp: 53135

Ion Ratio Lower Upper

276 100

138 24.3 21.3 31.9

277 23.4 19.7 29.5

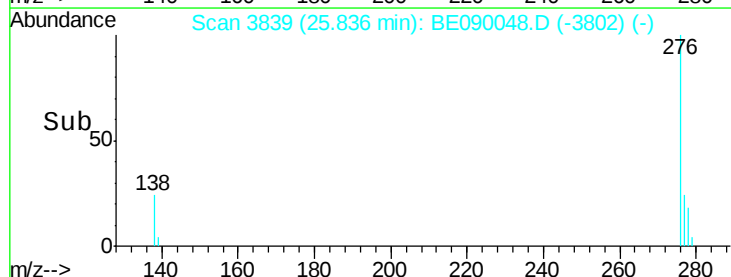
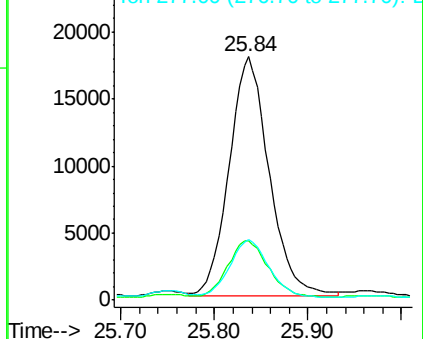


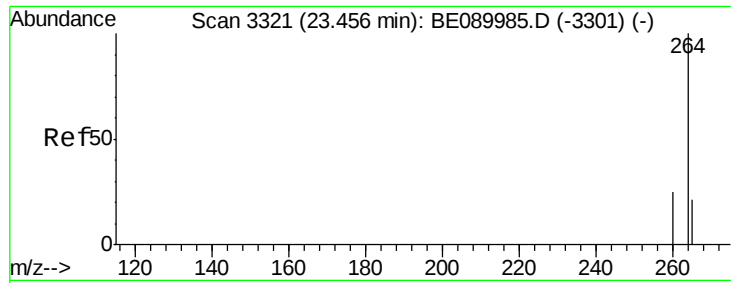
Abundance

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

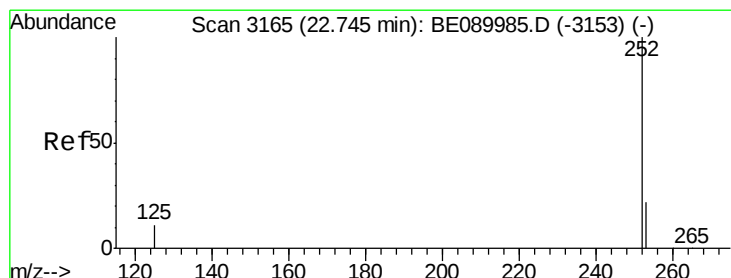
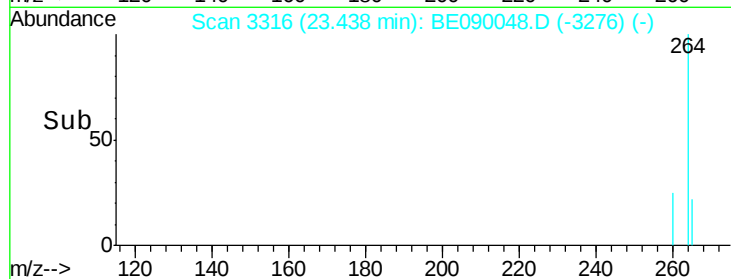
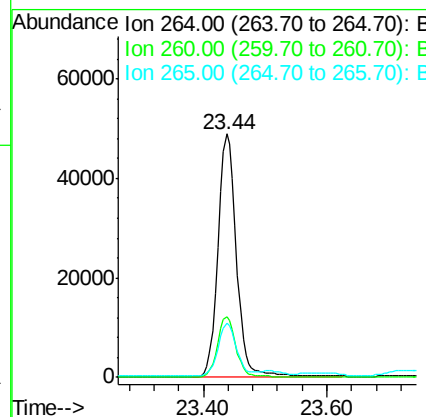
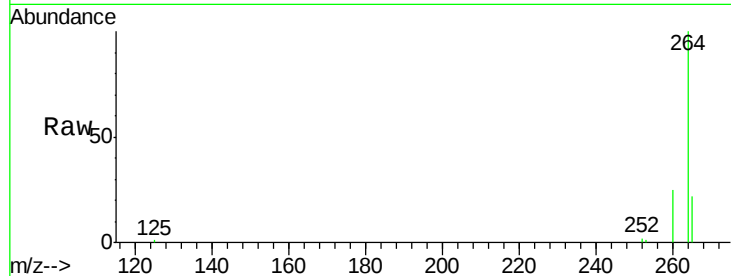




#32
Perylene-d12
 Concen: 5.00 ng
 RT: 23.44 min Scan# 3316
 Delta R.T. -0.02 min
 Lab File: BE090048.D
 Acq: 1 Jul 2015 19:33

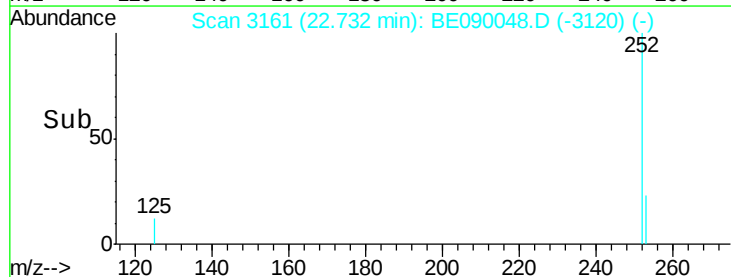
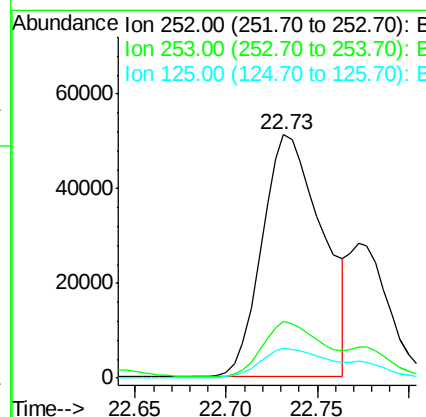
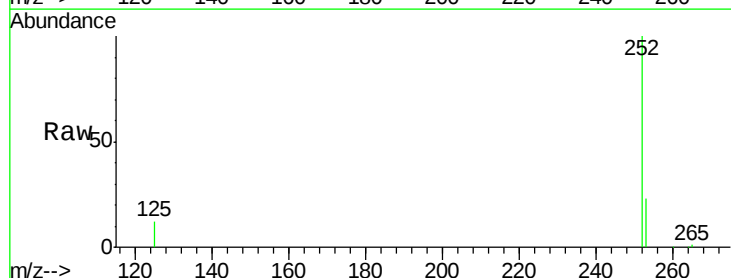
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0660624-150626DL

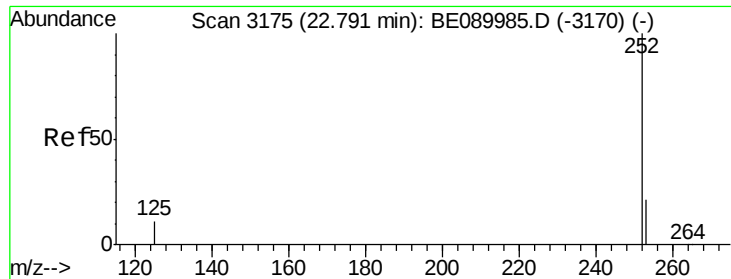
Tgt Ion: 264 Resp: 101384
 Ion Ratio Lower Upper
 264 100
 260 25.1 20.2 30.2
 265 22.2 17.1 25.7



#33
Benzo(b)fluoranthene
 Concen: 5.29 ng
 RT: 22.73 min Scan# 3161
 Delta R.T. -0.01 min
 Lab File: BE090048.D
 Acq: 1 Jul 2015 19:33

Tgt Ion: 252 Resp: 118416
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.8 26.8
 125 12.1 9.0 13.4





#34

Benzo(k)fluoranthene

Concen: 4.74 ng

RT: 22.73 min Scan# 3161

Delta R.T. -0.06 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

Instrument :

BNA_E

ClientSampleId :

X1SS0660624-150626DL

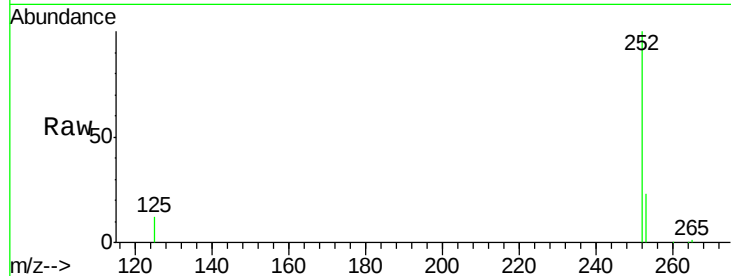
Tgt Ion:252 Resp: 118416

Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

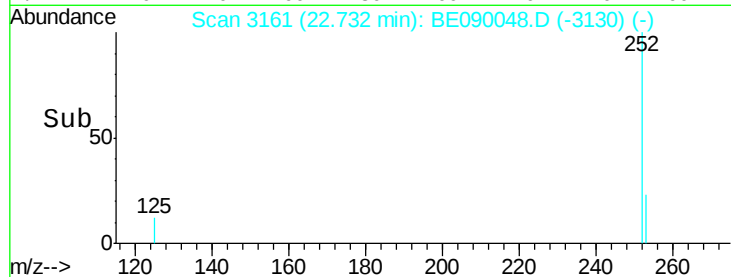
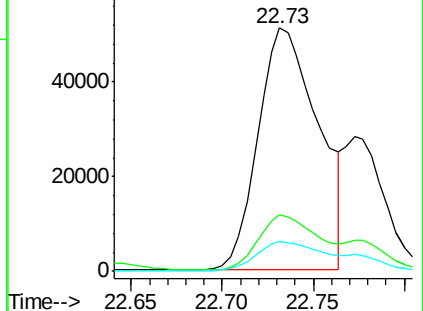
125 12.1 9.5 14.3



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: 3.93 ng

RT: 23.33 min Scan# 3293

Delta R.T. -0.02 min

Lab File: BE090048.D

Acq: 1 Jul 2015 19:33

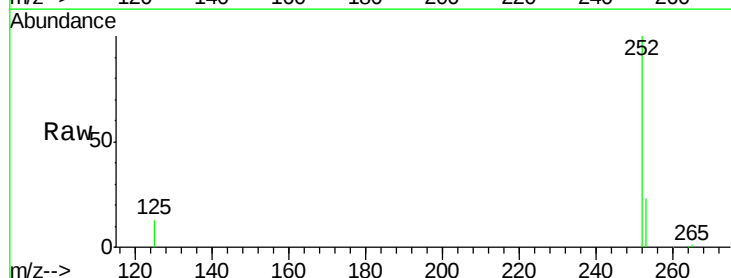
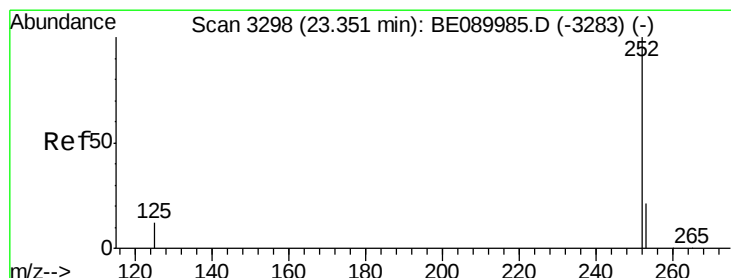
Tgt Ion:252 Resp: 81089

Ion Ratio Lower Upper

252 100

253 22.6 17.4 26.2

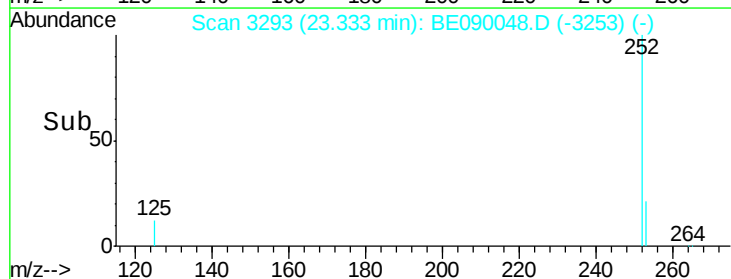
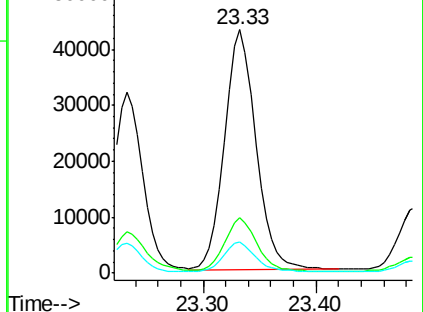
125 12.7 10.5 15.7

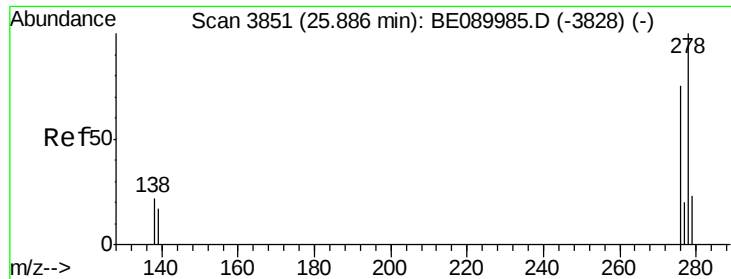


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



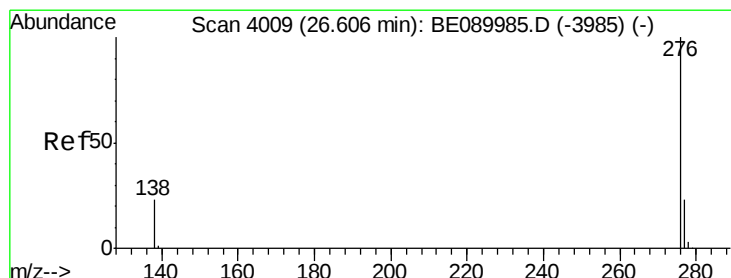
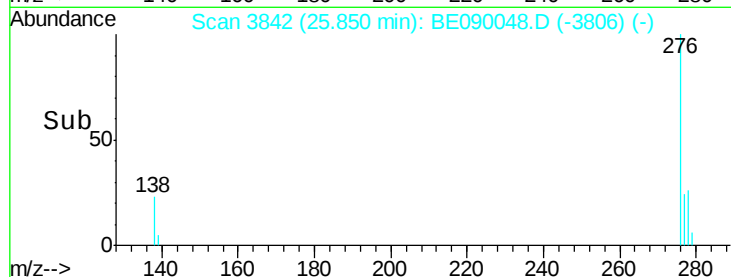
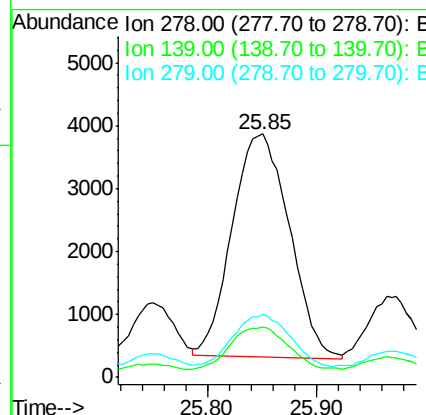
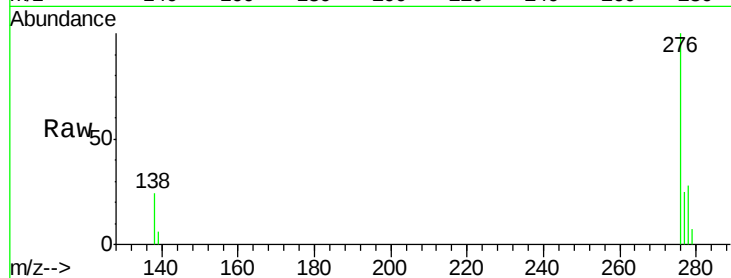


#36
Dibenzo(a,h)anthracene
Concen: 0.61 ng
RT: 25.85 min Scan# 3842
Delta R.T. -0.04 min
Lab File: BE090048.D
Acq: 1 Jul 2015 19:33

Instrument :
BNA_E
ClientSampleId :
X1SS0660624-150626DL

Tgt Ion: 278 Resp: 12886

Ion	Ratio	Lower	Upper
278	100		
139	20.4	14.4	21.6
279	25.7	19.0	28.6



#37
Benzo(g,h,i)perylene
Concen: 2.54 ng
RT: 26.57 min Scan# 4001
Delta R.T. -0.03 min
Lab File: BE090048.D
Acq: 1 Jul 2015 19:33

Tgt Ion: 276 Resp: 54638

Ion	Ratio	Lower	Upper
276	100		
277	24.1	18.8	28.2
138	25.7	18.6	27.8

