

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE063015\
 Data File : BE090032.D
 Acq On : 1 Jul 2015 5:20
 Operator : TP/IZ
 Sample : G2824-02 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626-D

Quant Time: Jul 01 06:21:05 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	14907	5.00	ng	0.00
6) Naphthalene-d8	10.37	136	64220	5.00	ng	-0.01
12) Acenaphthene-d10	14.23	164	34621	5.00	ng	0.00
18) Phenanthrene-d10	16.96	188	80425	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	103552	5.00	ng	-0.01
32) Perylene-d12	23.44	264	103327	5.00	ng	-0.02

System Monitoring Compounds

4) 2-Fluorophenol	5.24	112	12336	3.60	ng	0.00
5) Phenol-d6	6.80	99	18257	3.81	ng	0.00
7) Nitrobenzene-d5	8.76	82	10547	2.07	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	3560	3.51	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	23201	2.23	ng	-0.01
27) Terphenyl-d14	19.58	244	36626	2.12	ng	-0.01

Target Compounds

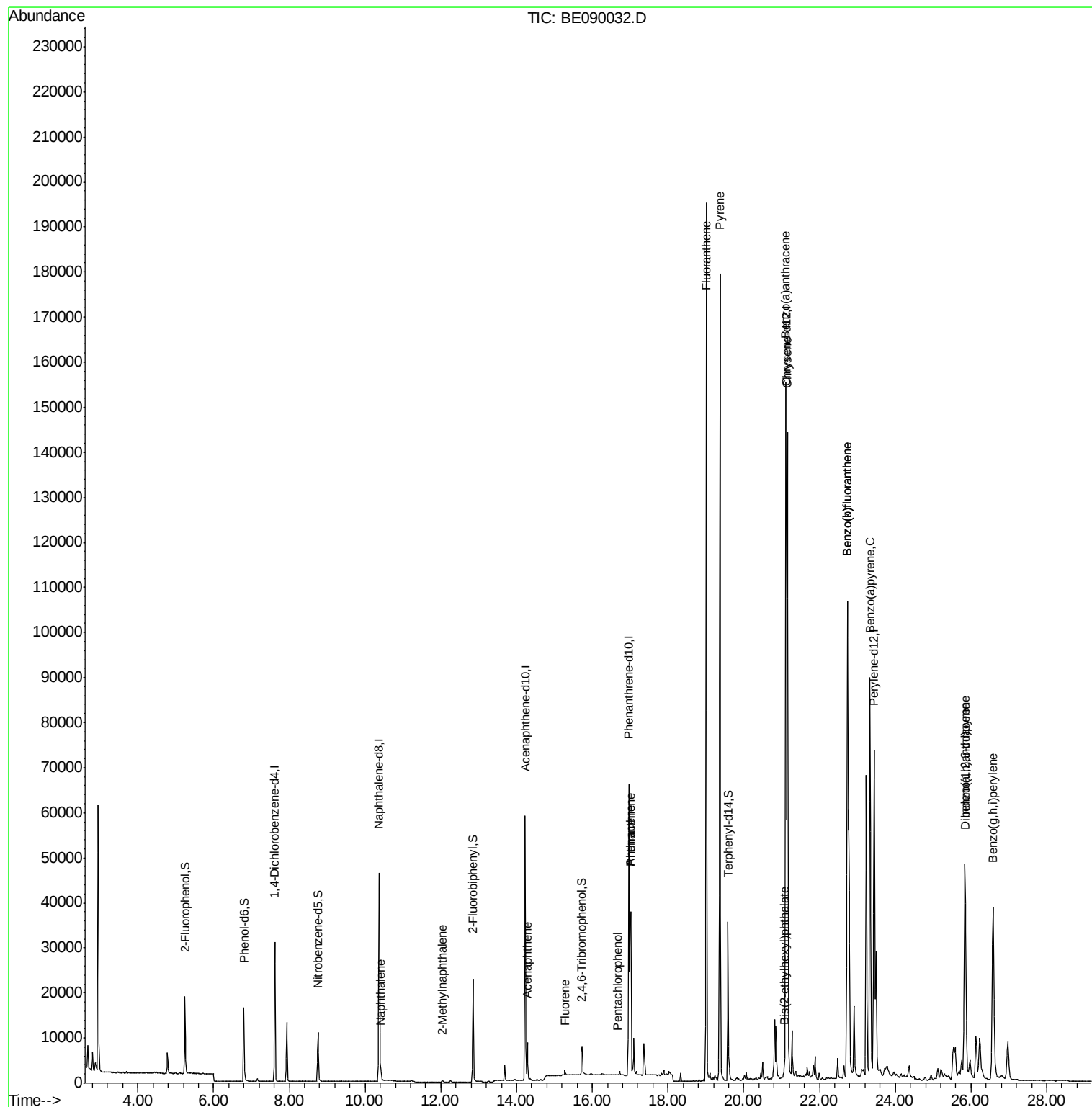
						Qvalue
9) Naphthalene	10.42	128	2094	0.14	ng	# 93
11) 2-Methylnaphthalene	12.04	142	342	0.04	ng	# 87
16) Acenaphthene	14.28	154	1426	0.16	ng	93
17) Fluorene	15.27	166	886	0.07	ng	# 93
21) Pentachlorophenol	16.67	266	11	0.26	ng	# 52
22) Phenanthrene	17.01	178	52474	2.55	ng	100
23) Anthracene	17.01	178	52464	2.78	ng	99
24) Fluoranthene	19.01	202	168817	7.34	ng	99
26) Pyrene	19.37	202	159253	6.45	ng	96
28) Benzo(a)anthracene	21.10	228	122798	4.75	ng	99
29) Chrysene	21.16	228	133163	4.96	ng	98
30) Bis(2-ethylhexyl)phthalate	21.05	149	775	0.37	ng	# 99
31) Indeno(1,2,3-cd)pyrene	25.84	276	83880	3.26	ng	96
33) Benzo(b)fluoranthene	22.74	252	182019	7.99	ng	98
34) Benzo(k)fluoranthene	22.74	252	182019	7.15	ng	98
35) Benzo(a)pyrene	23.33	252	124544	5.92	ng	98
36) Dibenzo(a,h)anthracene	25.85	278	20425	0.95	ng	97
37) Benzo(g,h,i)perylene	26.58	276	86034	3.93	ng	98

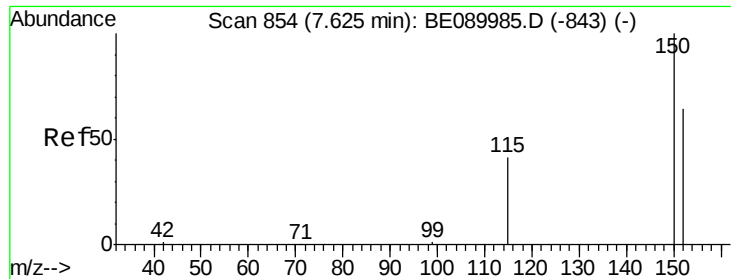
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

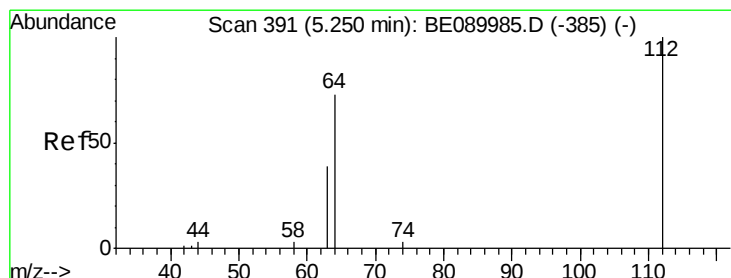
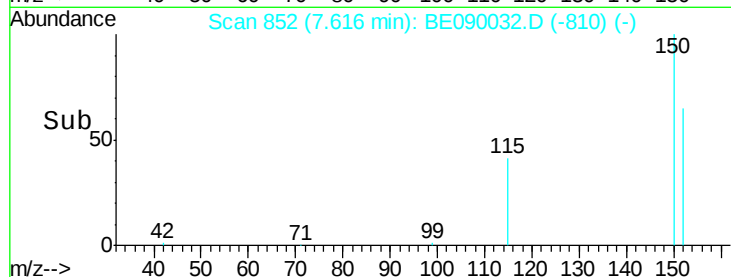
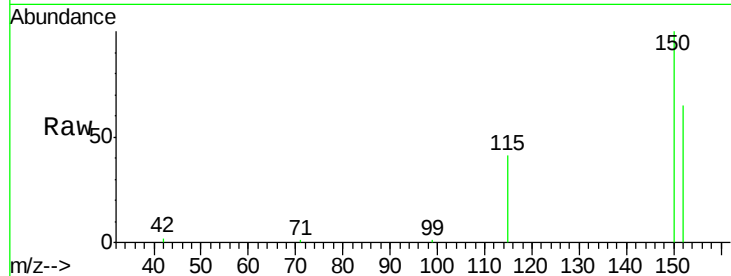
Tgt Ion:152 Resp: 14907

Ion Ratio Lower Upper

152 100

150 154.6 123.9 185.9

115 63.4 50.6 76.0



#4

2-Fluorophenol

Concen: 3.60 ng

RT: 5.24 min Scan# 390

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

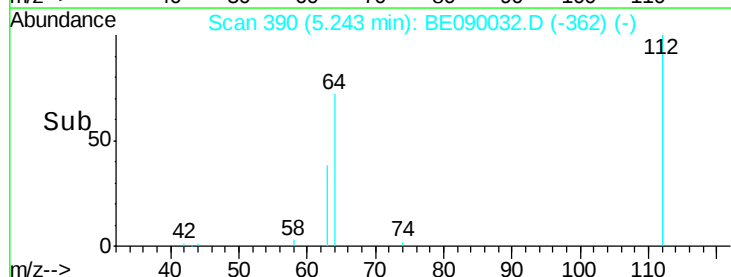
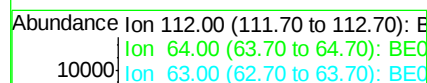
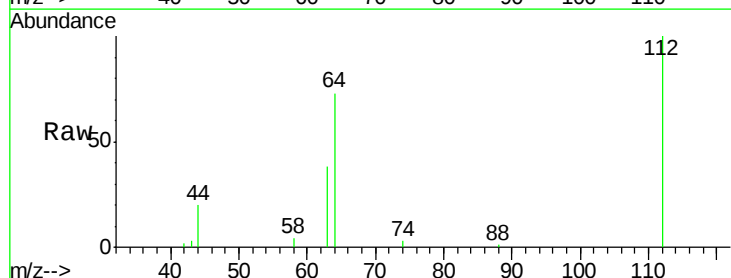
Tgt Ion:112 Resp: 12336

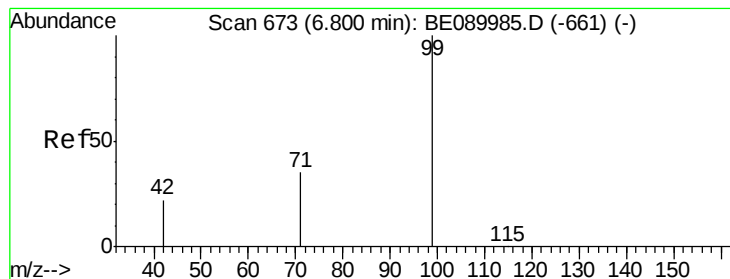
Ion Ratio Lower Upper

112 100

64 70.2 56.3 84.5

63 36.7 29.8 44.6





#5

Phenol-d6

Concen: 3.81 ng

RT: 6.80 min Scan# 672

Delta R.T. -0.00 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

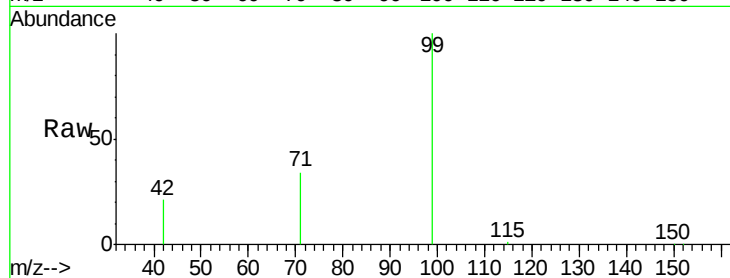
Tgt Ion: 99 Resp: 18257

Ion Ratio Lower Upper

99 100

42 20.2 18.7 28.1

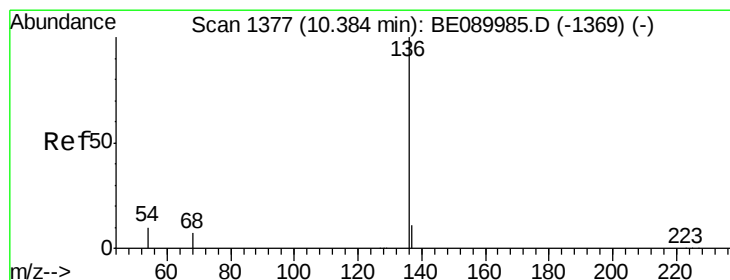
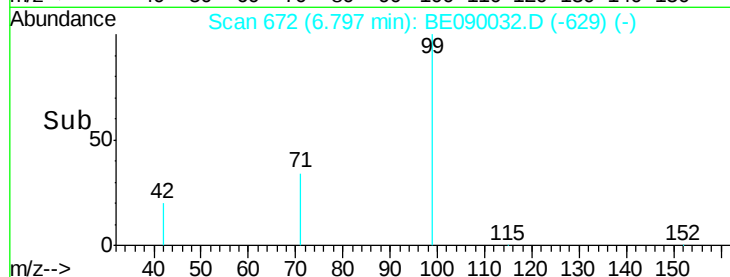
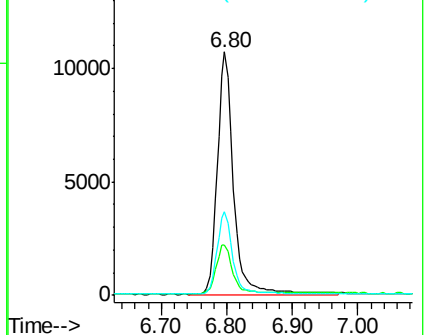
71 33.8 27.5 41.3



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: BE090032.D

Acq: 1 Jul 2015 5:20

Tgt Ion: 136 Resp: 64220

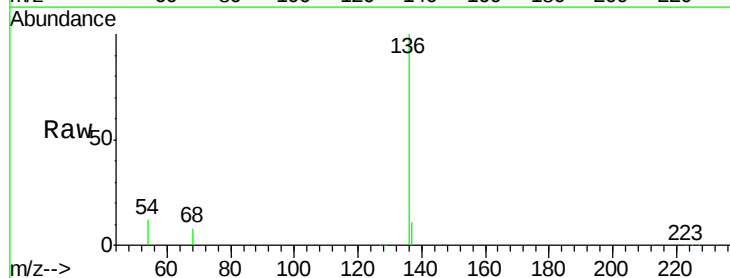
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 12.1 8.2 12.4

68 8.5 5.8 8.8

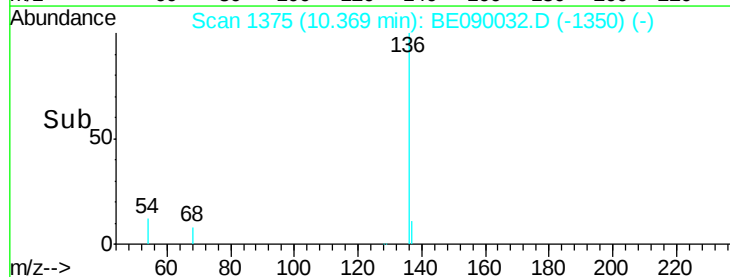
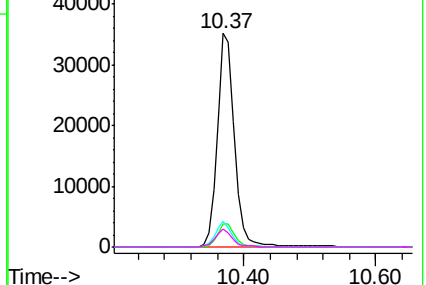


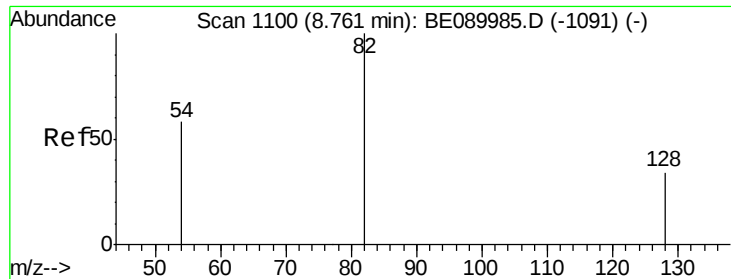
Abundance Ion 136.00 (135.70 to 136.70): E

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: 2.07 ng

RT: 8.76 min Scan# 1099

Delta R.T. -0.00 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

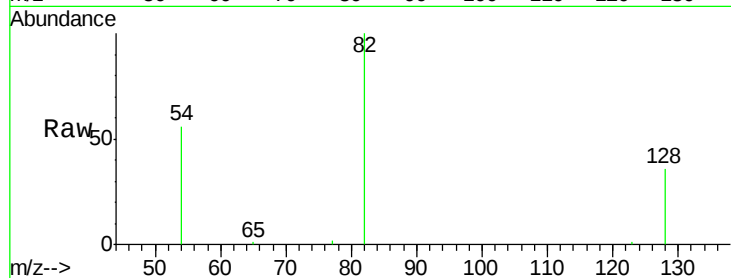
Tgt Ion: 82 Resp: 10547

Ion Ratio Lower Upper

82 100

128 35.9 28.0 42.0

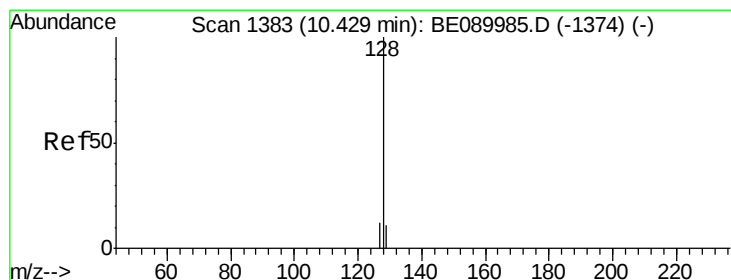
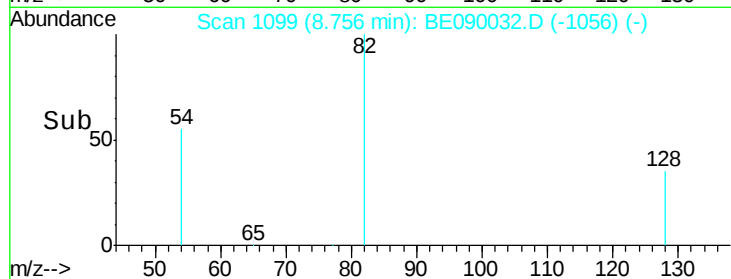
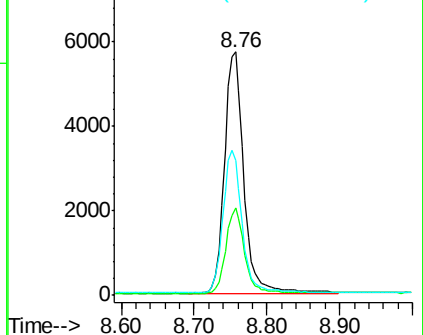
54 55.6 47.6 71.4



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: 0.14 ng

RT: 10.42 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

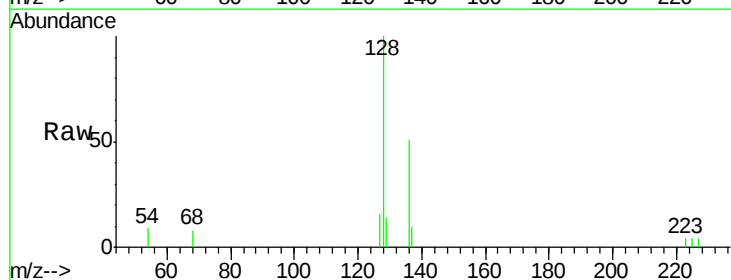
Tgt Ion: 128 Resp: 2094

Ion Ratio Lower Upper

128 100

129 14.0 9.3 13.9#

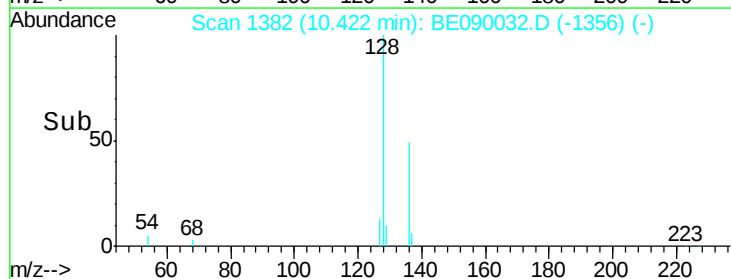
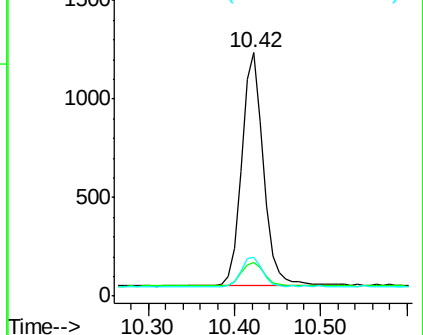
127 16.1 10.2 15.4#

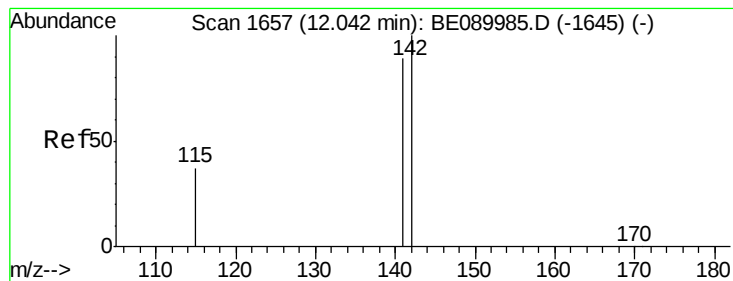


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

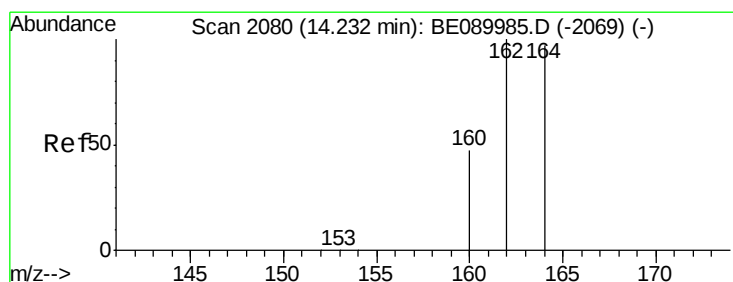
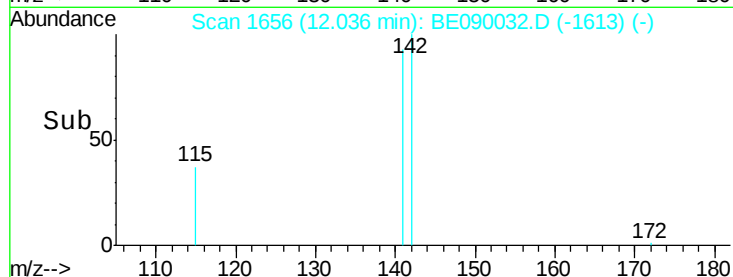
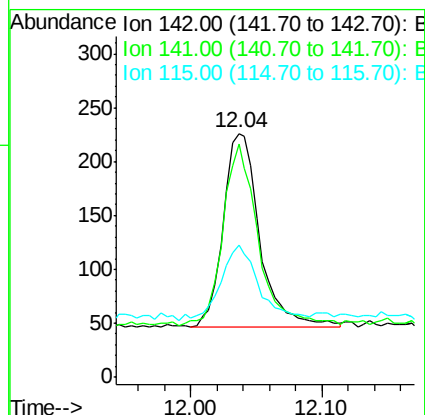
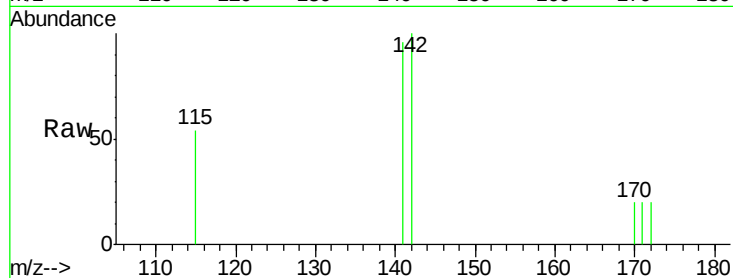




#11
2-Methylnaphthalene
Concen: 0.04 ng
RT: 12.04 min Scan# 1656
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

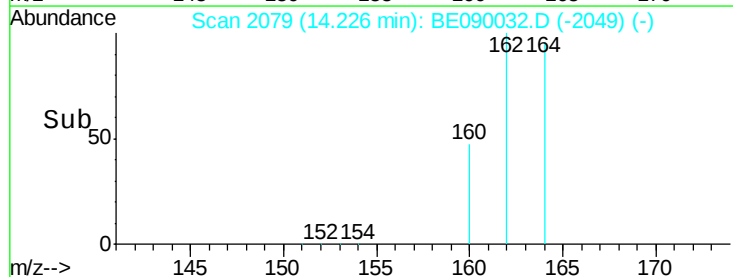
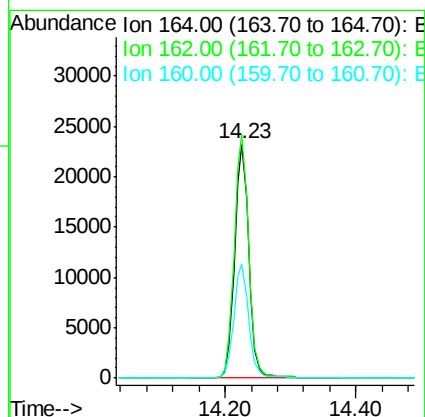
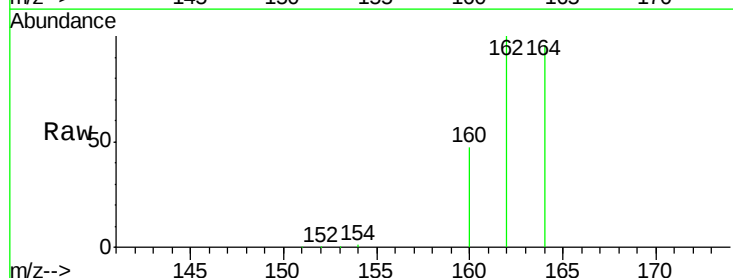
Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626-D

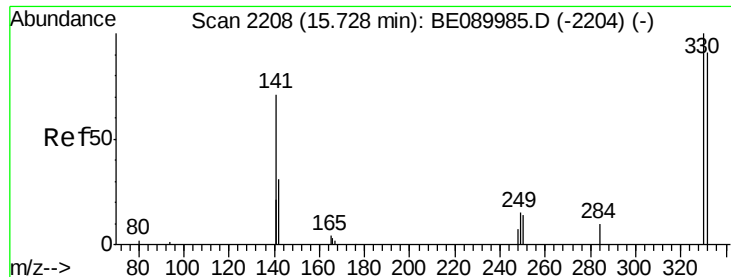
Tgt Ion:142 Resp: 342
Ion Ratio Lower Upper
142 100
141 95.6 71.3 106.9
115 54.4 30.4 45.6#



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.23 min Scan# 2079
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Tgt Ion:164 Resp: 34621
Ion Ratio Lower Upper
164 100
162 104.2 82.2 123.4
160 48.7 39.0 58.6

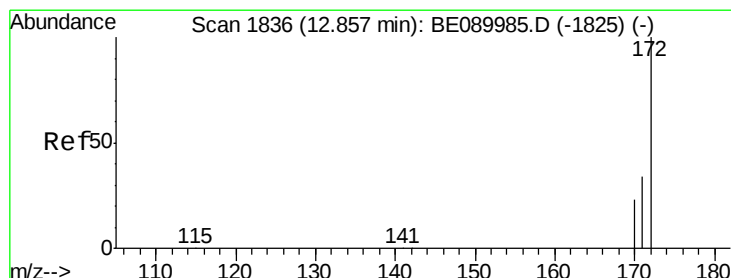
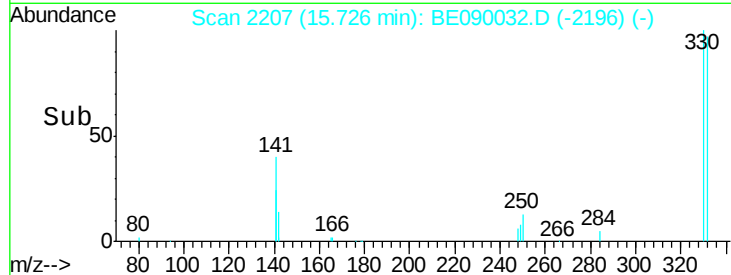
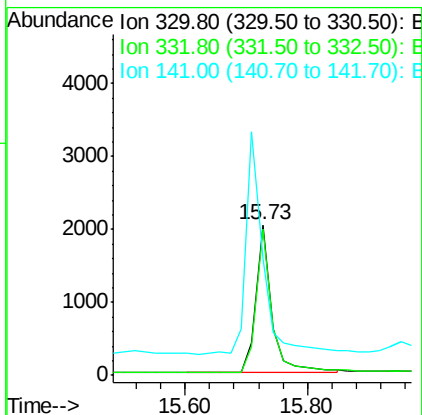
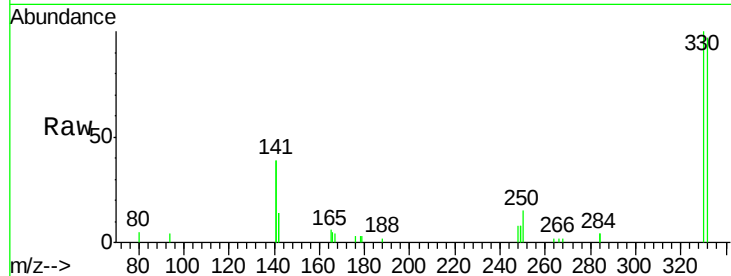




#13
 2,4,6-Tribromophenol
 Concen: 3.51 ng
 RT: 15.73 min Scan# 2207
 Delta R.T. -0.00 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

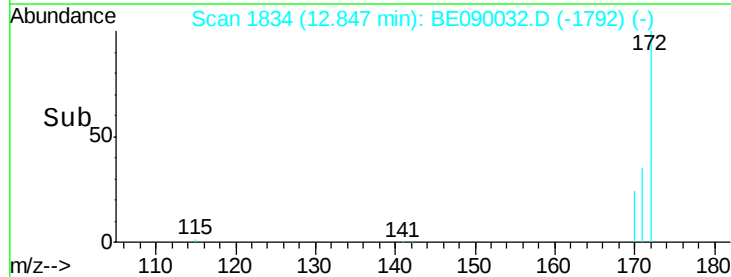
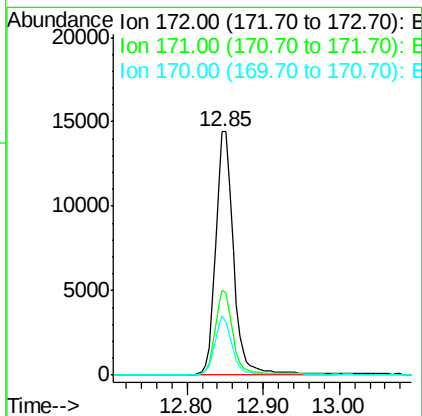
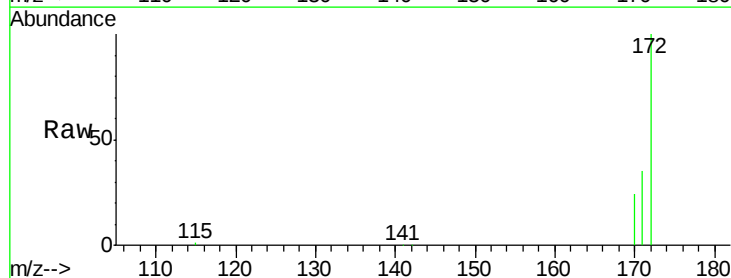
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626-D

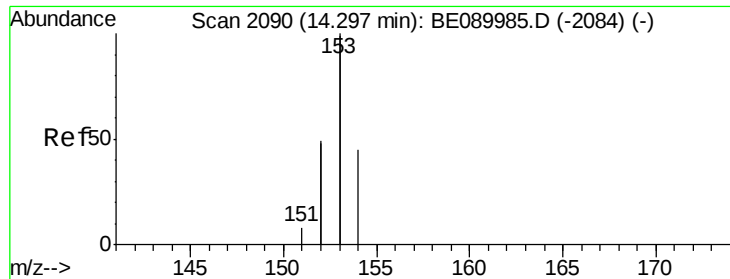
Tgt Ion: 330 Resp: 3560
 Ion Ratio Lower Upper
 330 100
 332 97.8 76.4 114.6
 141 166.2 130.3 195.5



#14
 2-Fluorobiphenyl
 Concen: 2.23 ng
 RT: 12.85 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

Tgt Ion: 172 Resp: 23201
 Ion Ratio Lower Upper
 172 100
 171 35.0 27.8 41.6
 170 24.1 18.3 27.5





#16

Acenaphthene

Concen: 0.16 ng

RT: 14.28 min Scan# 2088

Delta R.T. -0.01 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

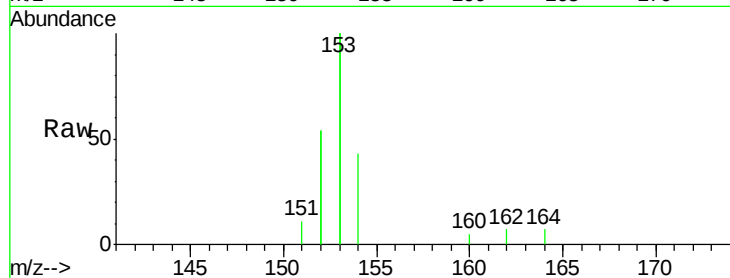
Tgt Ion:154 Resp: 1426

Ion Ratio Lower Upper

154 100

153 463.3 358.6 538.0

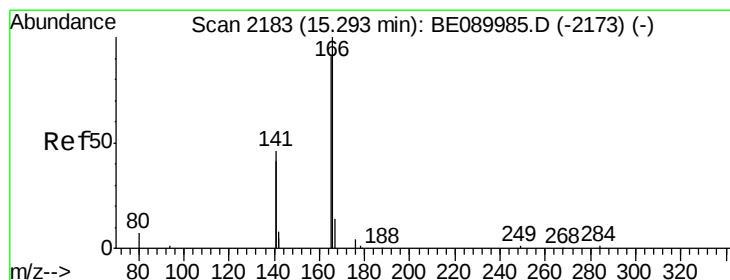
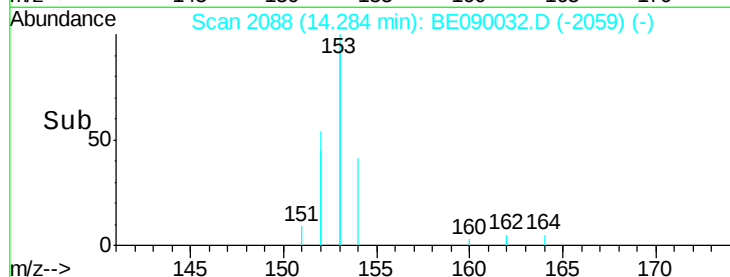
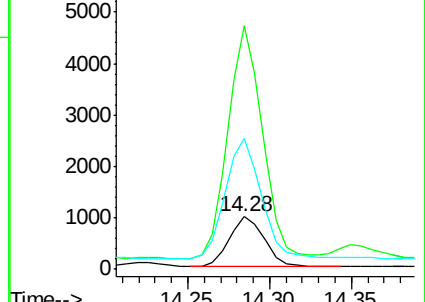
152 254.6 189.6 284.4



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: 0.07 ng

RT: 15.27 min Scan# 2181

Delta R.T. -0.02 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

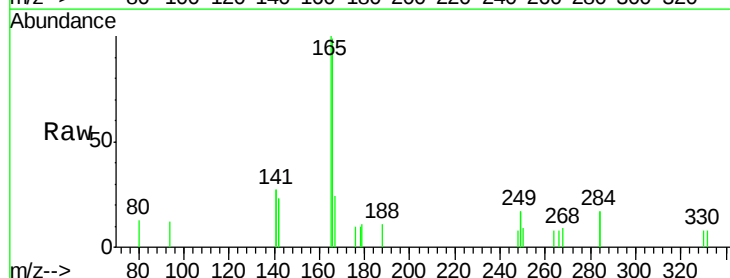
Tgt Ion:166 Resp: 886

Ion Ratio Lower Upper

166 100

165 105.6 79.0 118.6

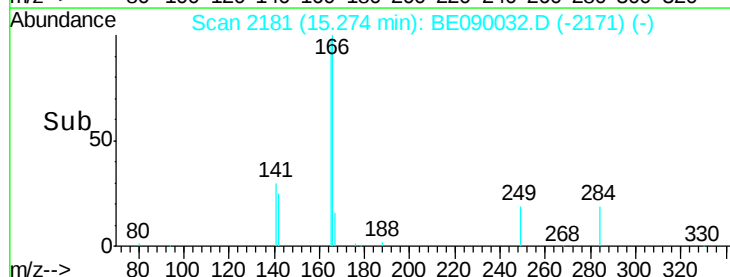
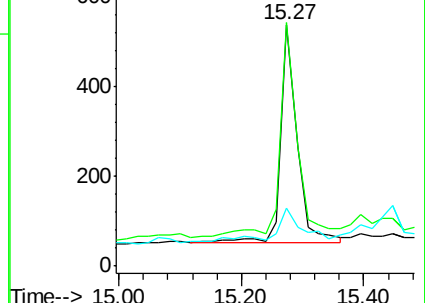
167 19.2 11.8 17.8#

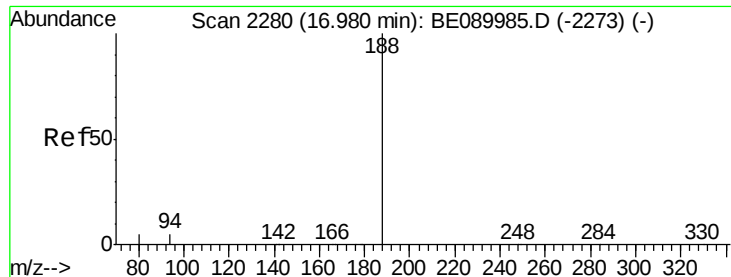


Abundance Ion 166.00 (165.70 to 166.70): E

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: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

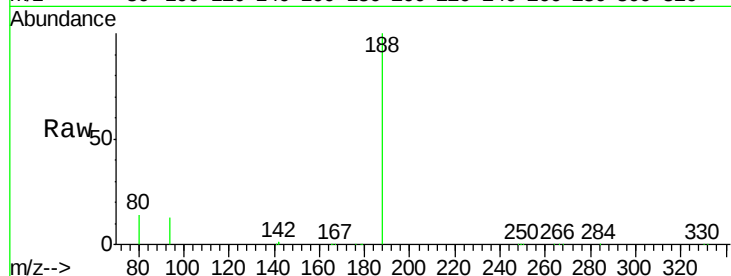
Tgt Ion:188 Resp: 80425

Ion Ratio Lower Upper

188 100

94 12.7 4.1 6.1#

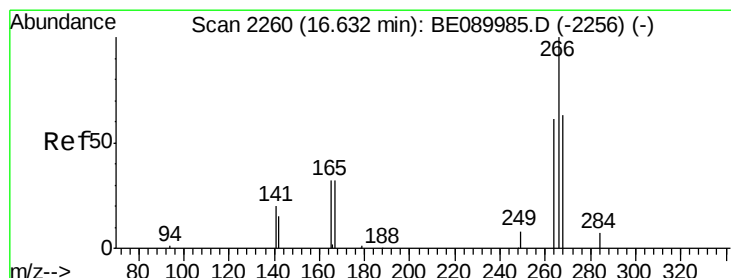
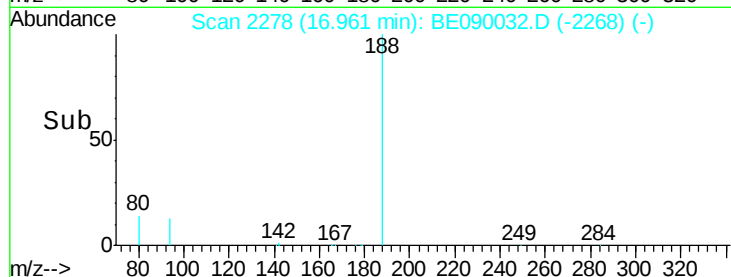
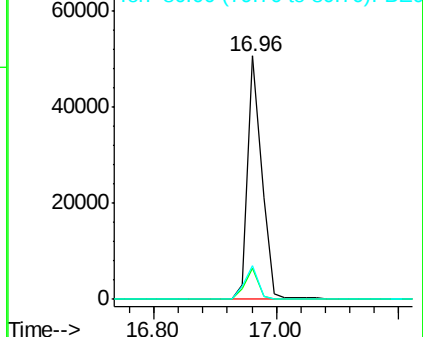
80 13.9 4.2 6.2#



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



#21

Pentachlorophenol

Concen: 0.26 ng

RT: 16.67 min Scan# 2261

Delta R.T. 0.03 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

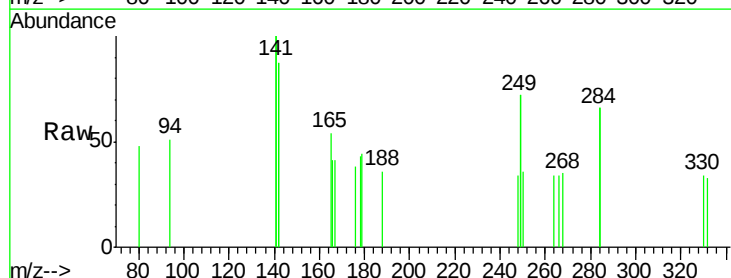
Tgt Ion:266 Resp: 11

Ion Ratio Lower Upper

266 100

268 102.1 51.8 77.8#

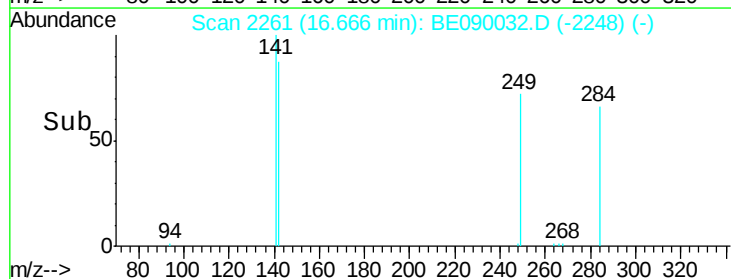
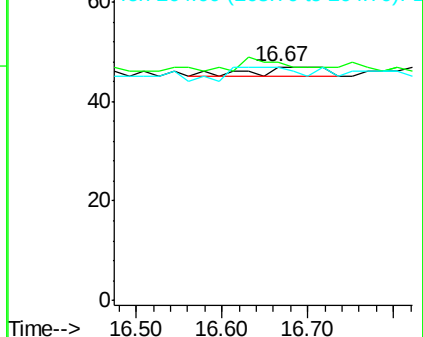
264 100.0 50.2 75.2#

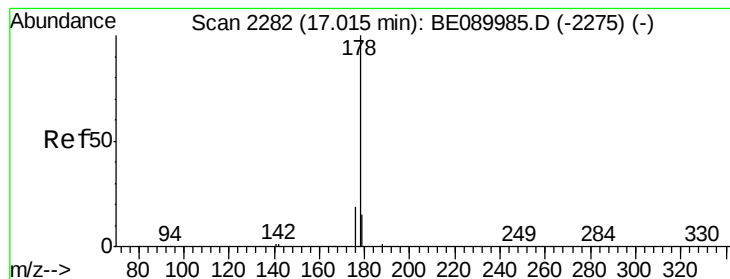


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#22

Phenanthrene

Concen: 2.55 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.00 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

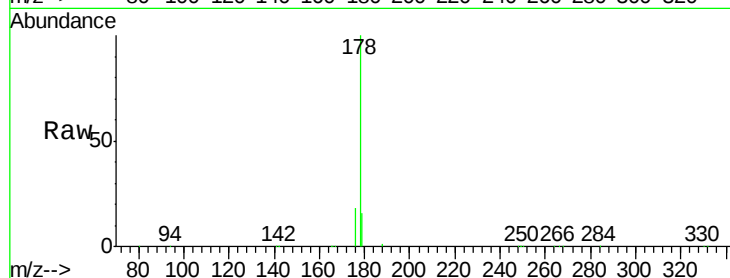
Tgt Ion:178 Resp: 52474

Ion Ratio Lower Upper

178 100

176 19.2 15.3 22.9

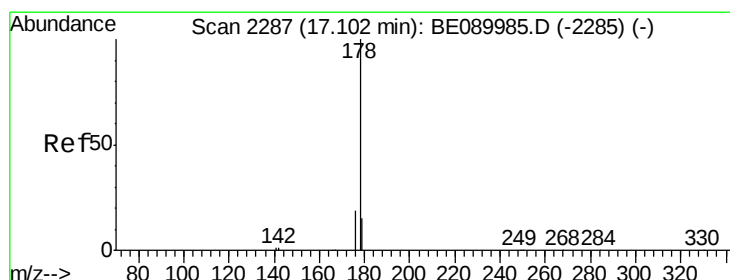
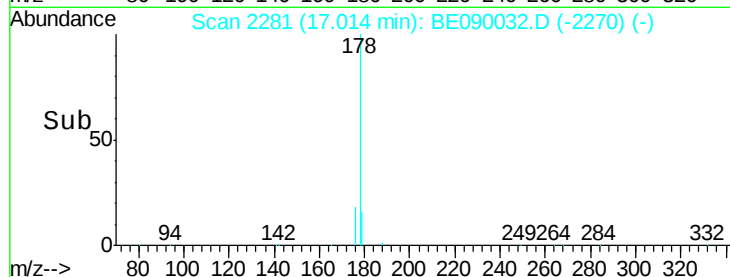
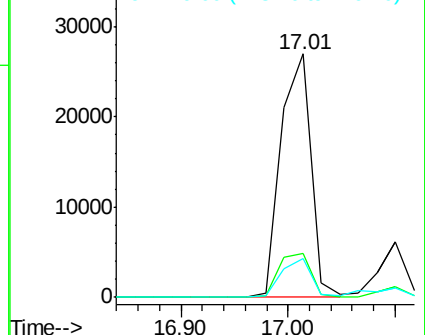
179 15.6 12.4 18.6



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: 2.78 ng

RT: 17.01 min Scan# 2281

Delta R.T. -0.09 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

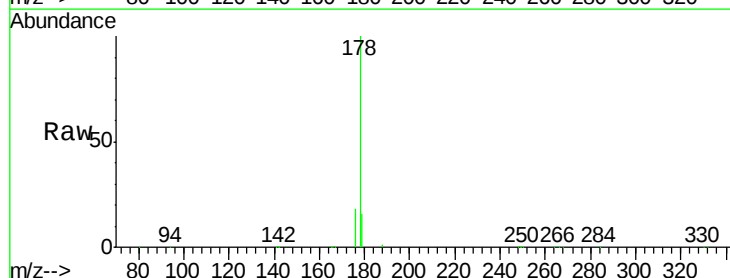
Tgt Ion:178 Resp: 52464

Ion Ratio Lower Upper

178 100

176 19.1 14.7 22.1

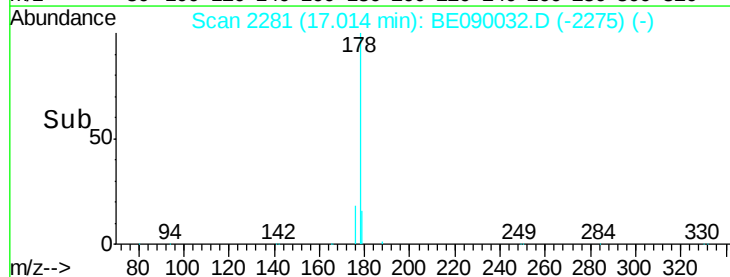
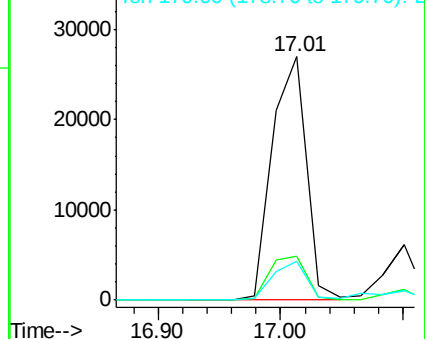
179 15.6 12.1 18.1

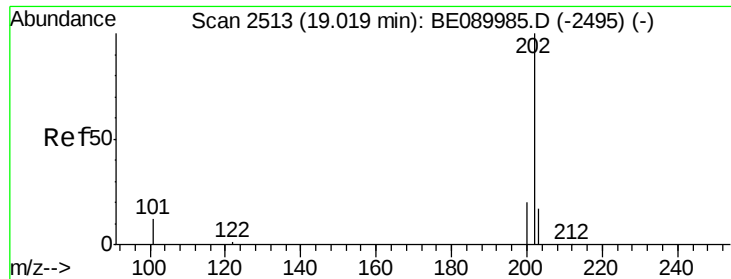


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

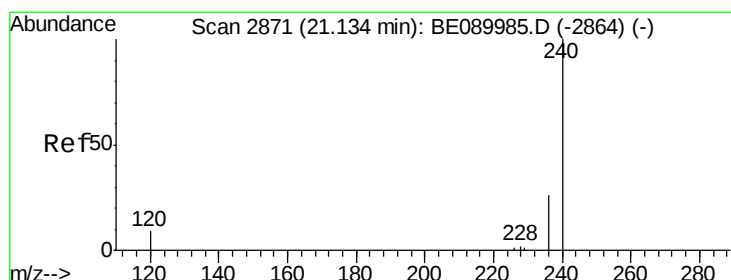
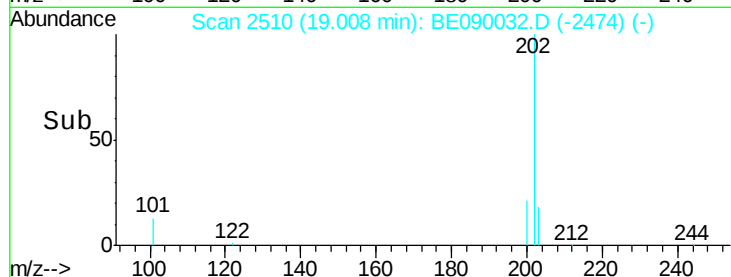
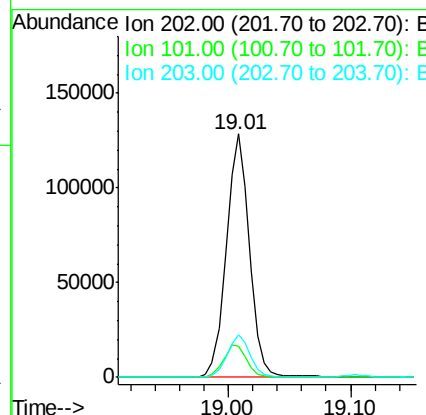
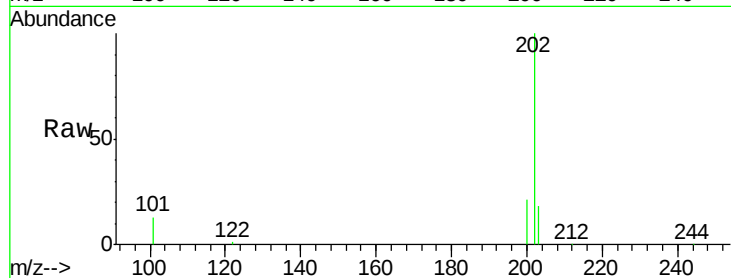




#24
Fluoranthene
Concen: 7.34 ng
RT: 19.01 min Scan# 2510
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

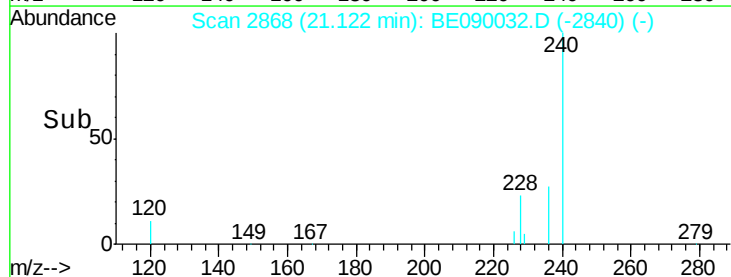
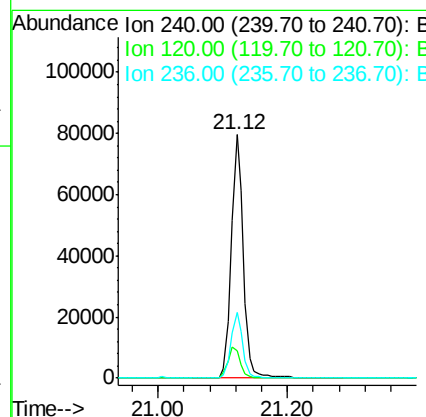
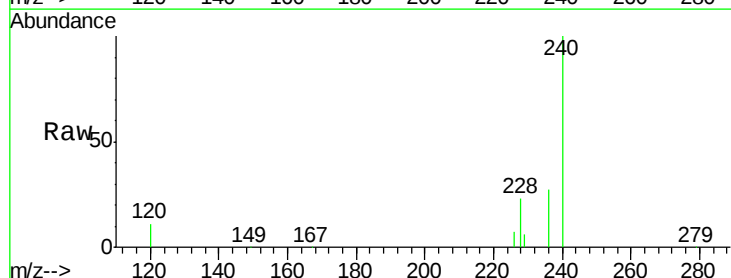
Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626-D

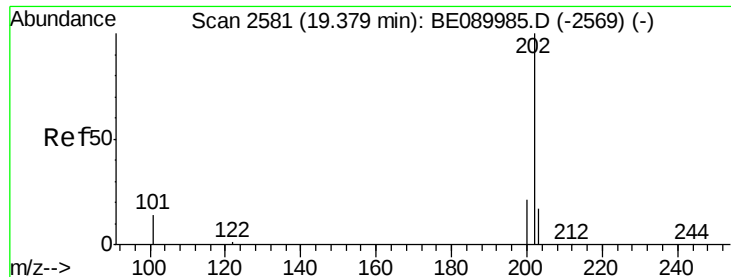
Tgt Ion: 202 Resp: 168817
Ion Ratio Lower Upper
202 100
101 13.5 10.6 15.8
203 17.4 13.8 20.6



#25
Chrysene-d12
Concen: 5.00 ng
RT: 21.12 min Scan# 2868
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Tgt Ion: 240 Resp: 103552
Ion Ratio Lower Upper
240 100
120 11.4 6.9 10.3#
236 26.9 20.8 31.2

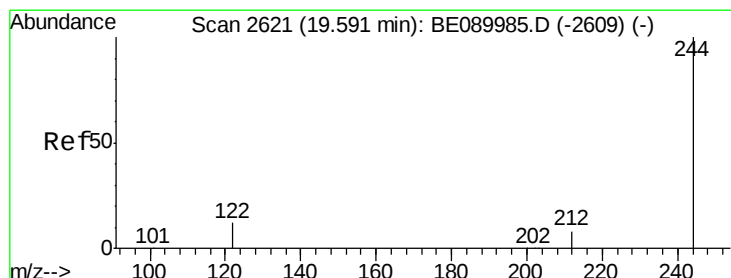
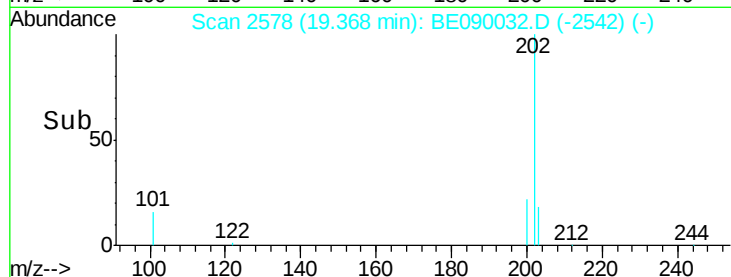
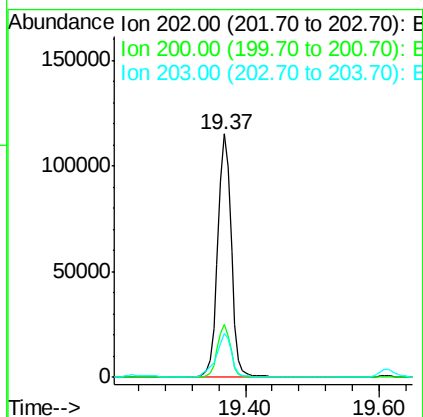
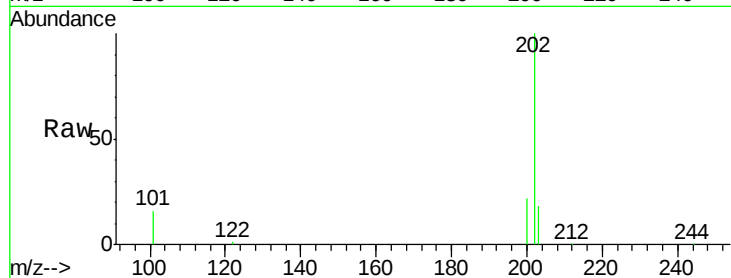




#26
 Pyrene
 Concen: 6.45 ng
 RT: 19.37 min Scan# 2578
 Delta R.T. -0.01 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

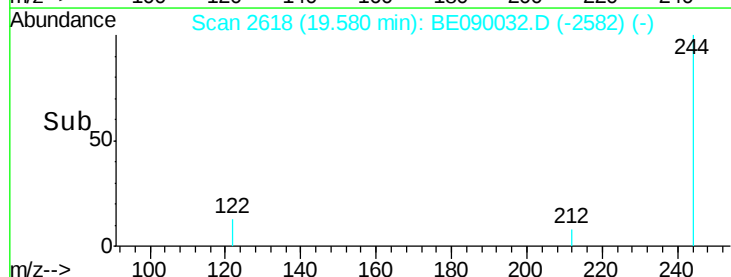
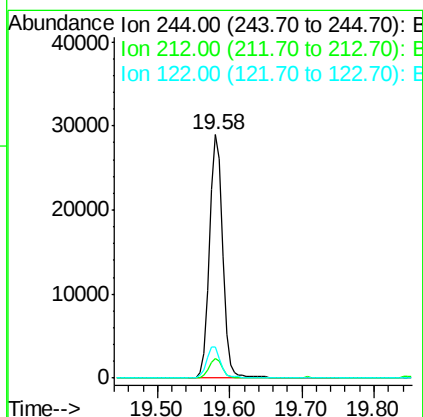
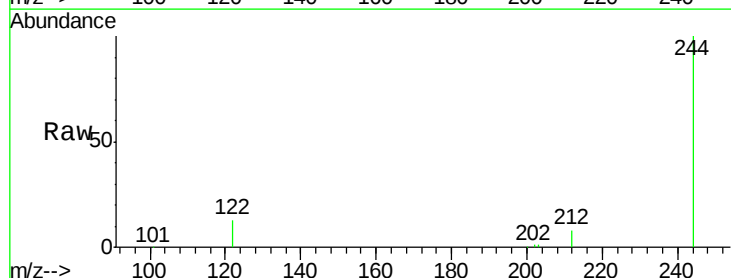
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626-D

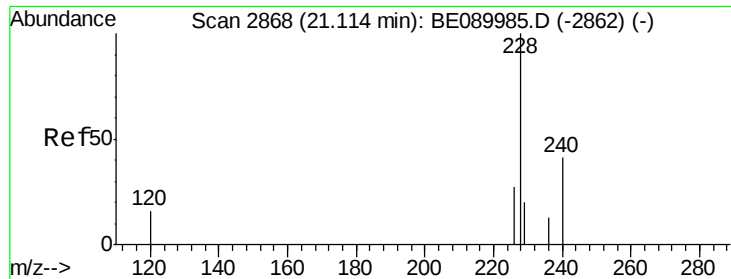
Tgt Ion: 202 Resp: 159253
 Ion Ratio Lower Upper
 202 100
 200 21.4 16.8 25.2
 203 20.5 13.9 20.9



#27
 Terphenyl-d14
 Concen: 2.12 ng
 RT: 19.58 min Scan# 2618
 Delta R.T. -0.01 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

Tgt Ion: 244 Resp: 36626
 Ion Ratio Lower Upper
 244 100
 212 8.0 6.6 9.8
 122 13.0 9.8 14.8

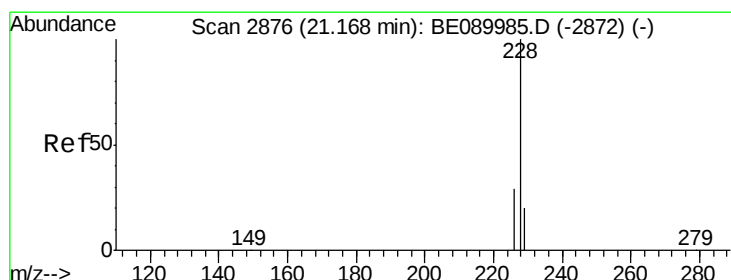
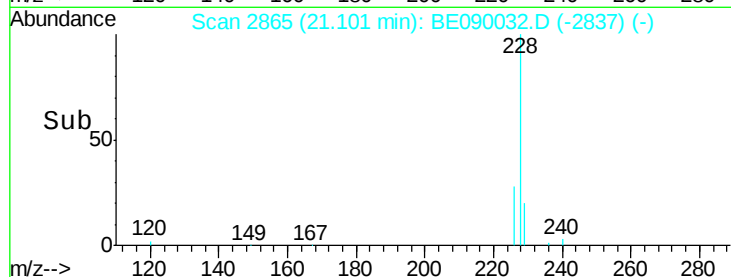
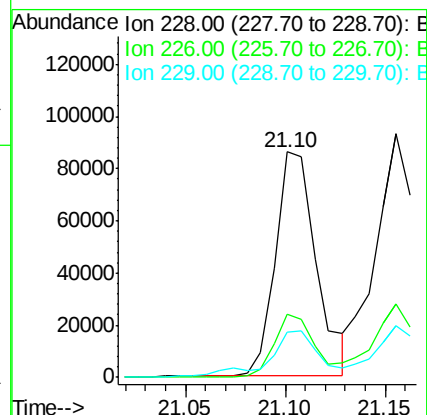
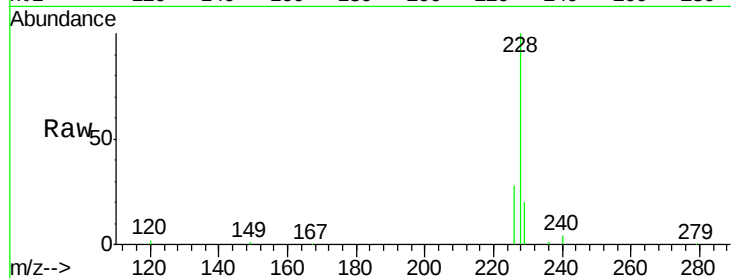




#28
Benzo(a)anthracene
Concen: 4.75 ng
RT: 21.10 min Scan# 2865
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

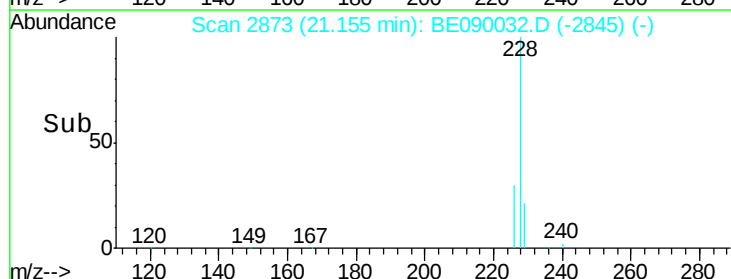
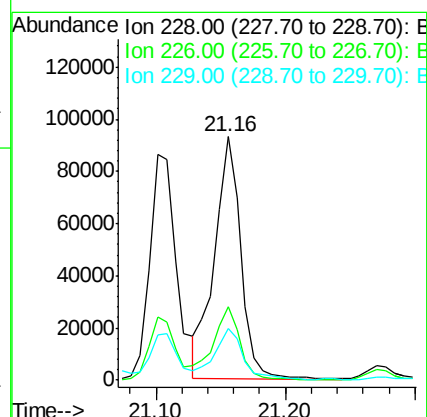
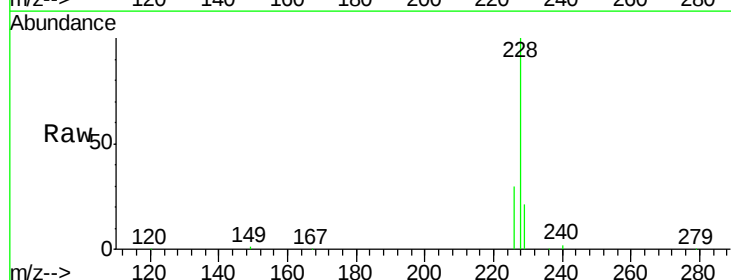
Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626-D

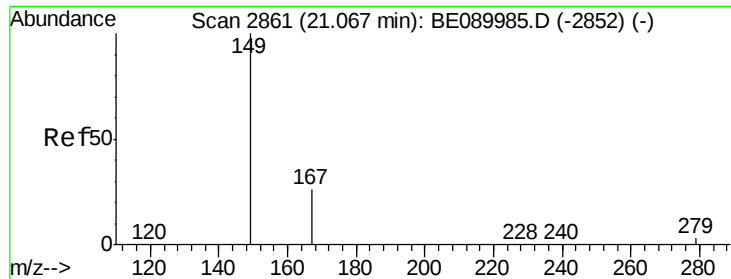
Tgt Ion:228 Resp: 122798
Ion Ratio Lower Upper
228 100
226 28.0 21.8 32.6
229 20.2 15.8 23.6



#29
Chrysene
Concen: 4.96 ng
RT: 21.16 min Scan# 2873
Delta R.T. -0.01 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Tgt Ion:228 Resp: 133163
Ion Ratio Lower Upper
228 100
226 30.2 23.4 35.0
229 21.4 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: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

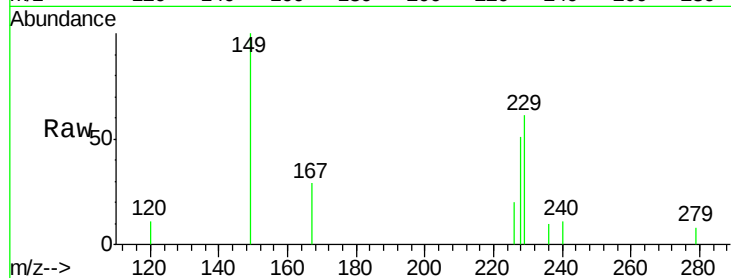
Tgt Ion:149 Resp: 775

Ion Ratio Lower Upper

149 100

167 25.9 20.3 30.5

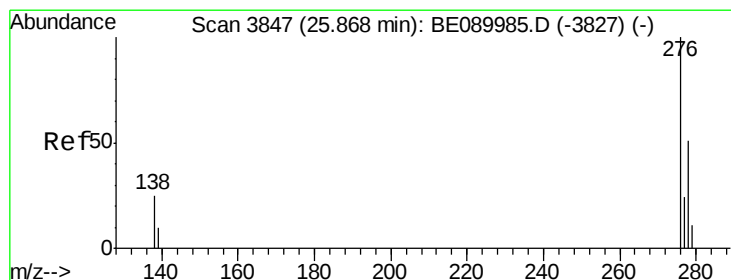
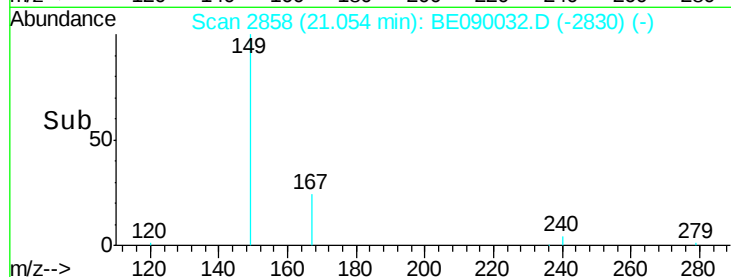
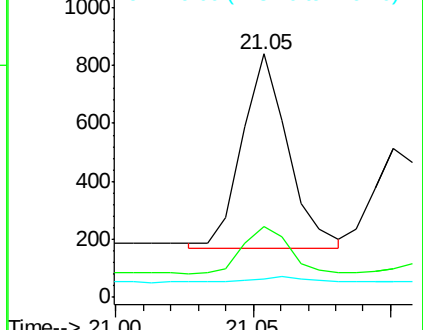
279 4.3 2.6 3.8#



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: 3.26 ng

RT: 25.84 min Scan# 3839

Delta R.T. -0.03 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

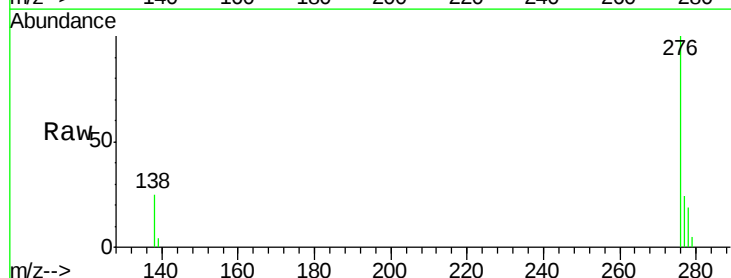
Tgt Ion:276 Resp: 83880

Ion Ratio Lower Upper

276 100

138 24.1 21.3 31.9

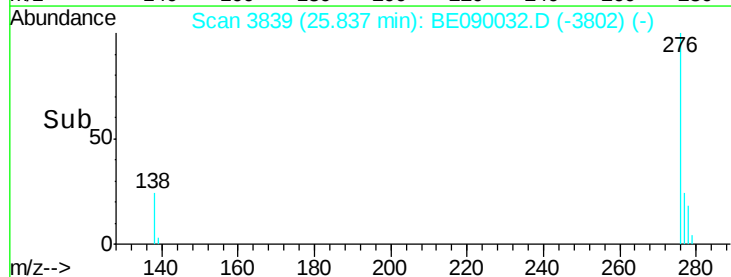
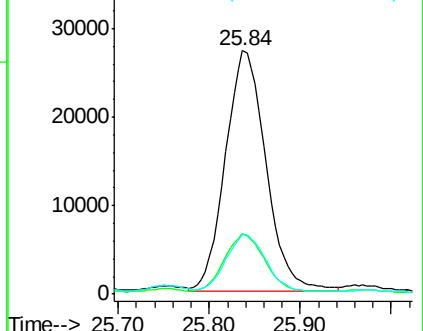
277 23.3 19.7 29.5

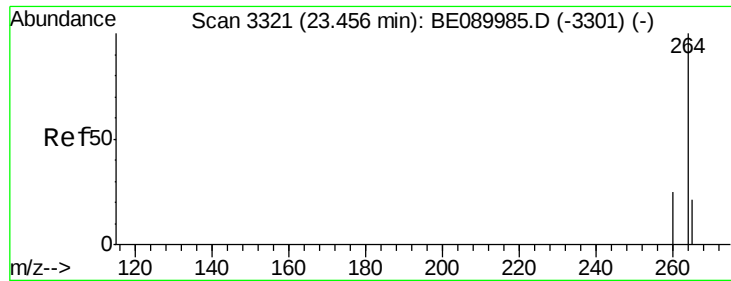


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

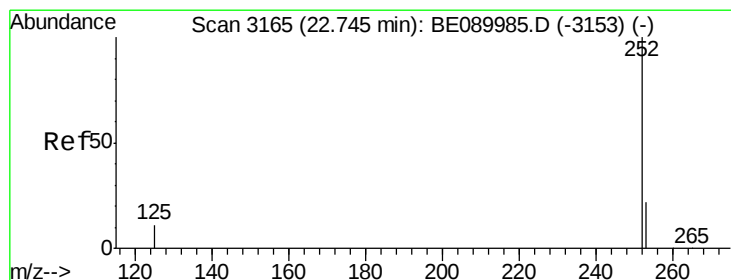
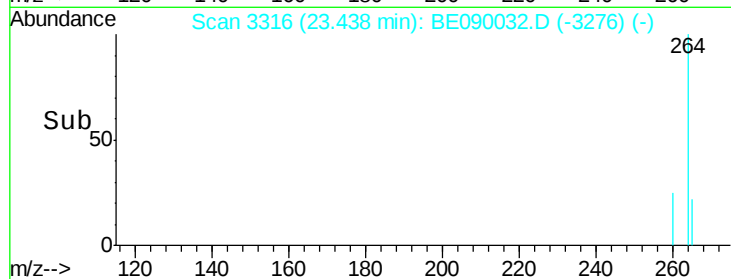
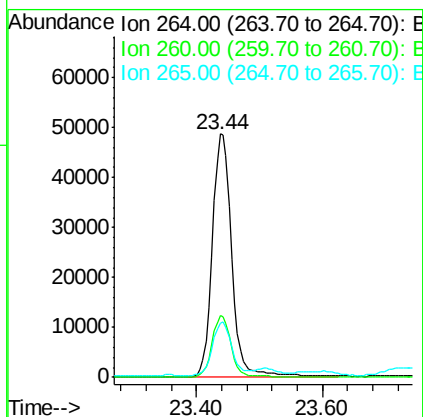
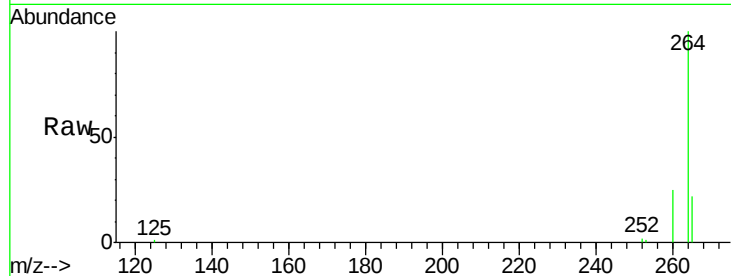




#32
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.44 min Scan# 3316
 Delta R.T. -0.02 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

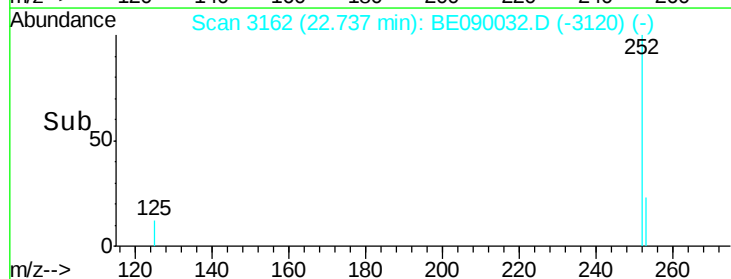
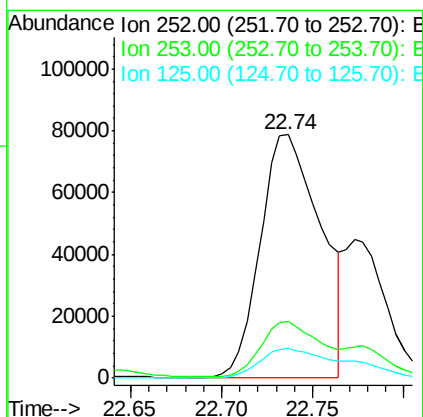
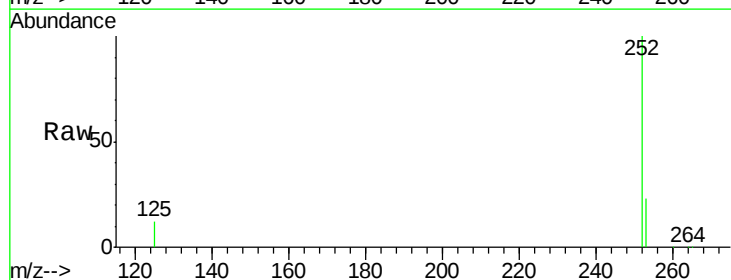
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0650006-150626-D

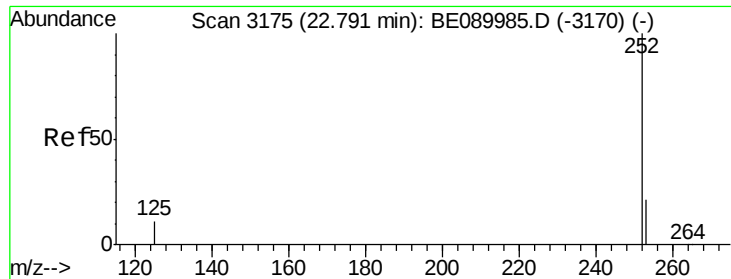
Tgt Ion: 264 Resp: 103327
 Ion Ratio Lower Upper
 264 100
 260 25.2 20.2 30.2
 265 22.3 17.1 25.7



#33
 Benzo(b)fluoranthene
 Concen: 7.99 ng
 RT: 22.74 min Scan# 3162
 Delta R.T. -0.01 min
 Lab File: BE090032.D
 Acq: 1 Jul 2015 5:20

Tgt Ion: 252 Resp: 182019
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.8 26.8
 125 12.1 9.0 13.4





#34

Benzo(k)fluoranthene

Concen: 7.15 ng

RT: 22.74 min Scan# 3162

Delta R.T. -0.05 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

Instrument :

BNA_E

ClientSampleId :

X1SS0650006-150626-D

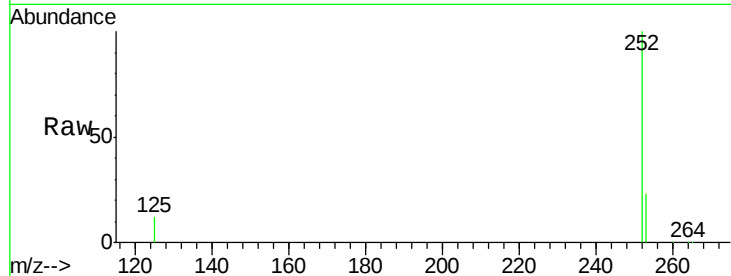
Tgt Ion:252 Resp: 182019

Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

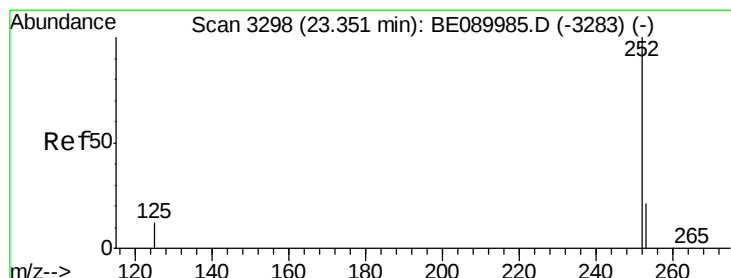
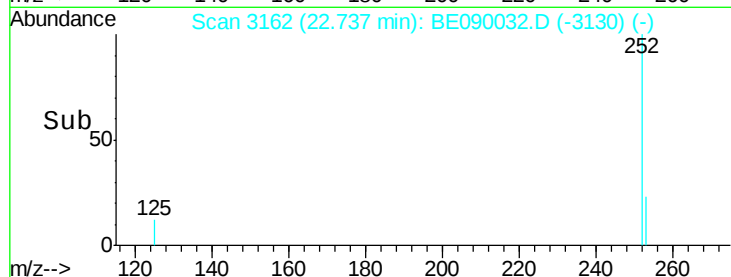
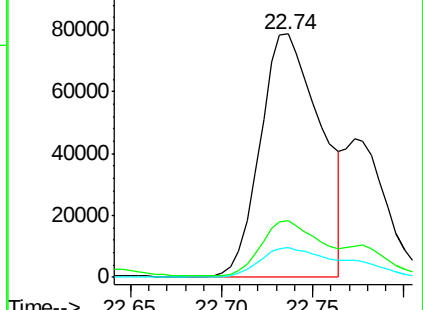
125 12.1 9.5 14.3



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: 5.92 ng

RT: 23.33 min Scan# 3293

Delta R.T. -0.02 min

Lab File: BE090032.D

Acq: 1 Jul 2015 5:20

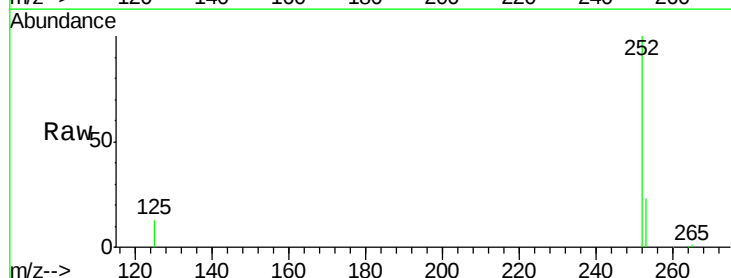
Tgt Ion:252 Resp: 124544

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.2

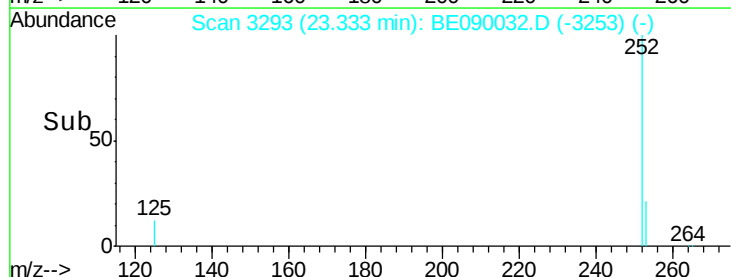
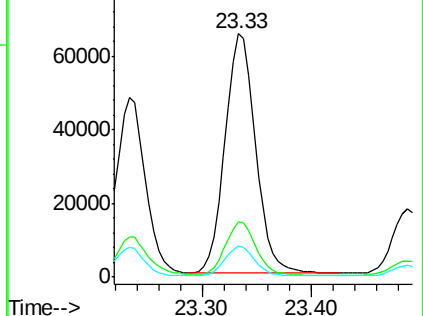
125 12.7 10.5 15.7

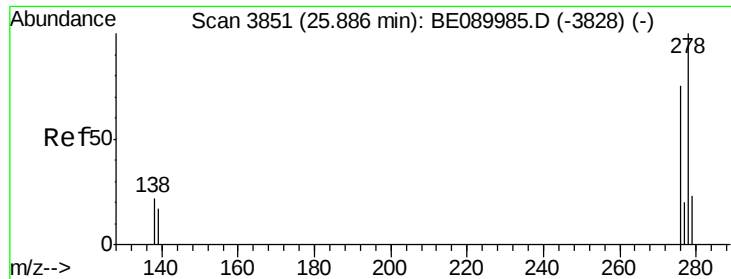


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

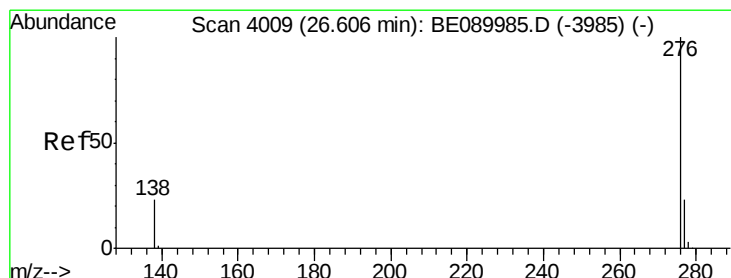
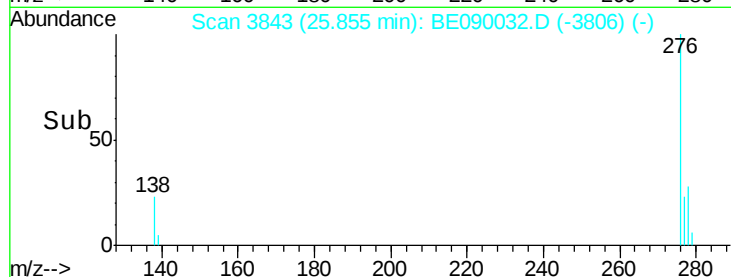
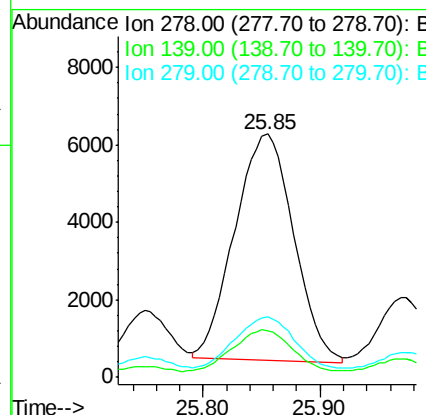
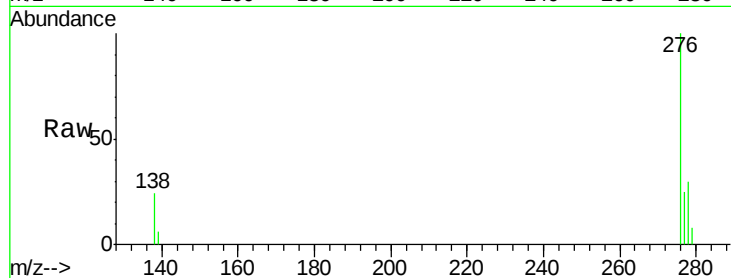




#36
Dibenzo(a,h)anthracene
Concen: 0.95 ng
RT: 25.85 min Scan# 3843
Delta R.T. -0.03 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Instrument :
BNA_E
ClientSampleId :
X1SS0650006-150626-D

Tgt Ion: 278 Resp: 20425
Ion Ratio Lower Upper
278 100
139 19.3 14.4 21.6
279 25.0 19.0 28.6



#37
Benzo(g,h,i)perylene
Concen: 3.93 ng
RT: 26.58 min Scan# 4002
Delta R.T. -0.03 min
Lab File: BE090032.D
Acq: 1 Jul 2015 5:20

Tgt Ion: 276 Resp: 86034
Ion Ratio Lower Upper
276 100
277 24.0 18.8 28.2
138 25.0 18.6 27.8

