

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE063015\
 Data File : BE090031.D
 Acq On : 1 Jul 2015 4:44
 Operator : TP/IZ
 Sample : G2810-15DL 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0550006-150625DL

Quant Time: Jul 01 17:14:11 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	14646	5.00	ng	0.00
6) Naphthalene-d8	10.37	136	62556	5.00	ng	-0.01
12) Acenaphthene-d10	14.22	164	34590	5.00	ng	0.00
18) Phenanthrene-d10	16.96	188	79717	5.00	ng	-0.02
25) Chrysene-d12	21.12	240	98943	5.00	ng	-0.01
32) Perylene-d12	23.44	264	95703	5.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.24	112	12390	3.68	ng	0.00
5) Phenol-d6	6.80	99	18165	3.86	ng	0.00
7) Nitrobenzene-d5	8.75	82	10693	2.15	ng	0.00
13) 2,4,6-Tribromophenol	15.73	330	3899	3.85	ng	0.00
14) 2-Fluorobiphenyl	12.85	172	23790	2.29	ng	0.00
27) Terphenyl-d14	19.58	244	36929	2.24	ng	-0.01

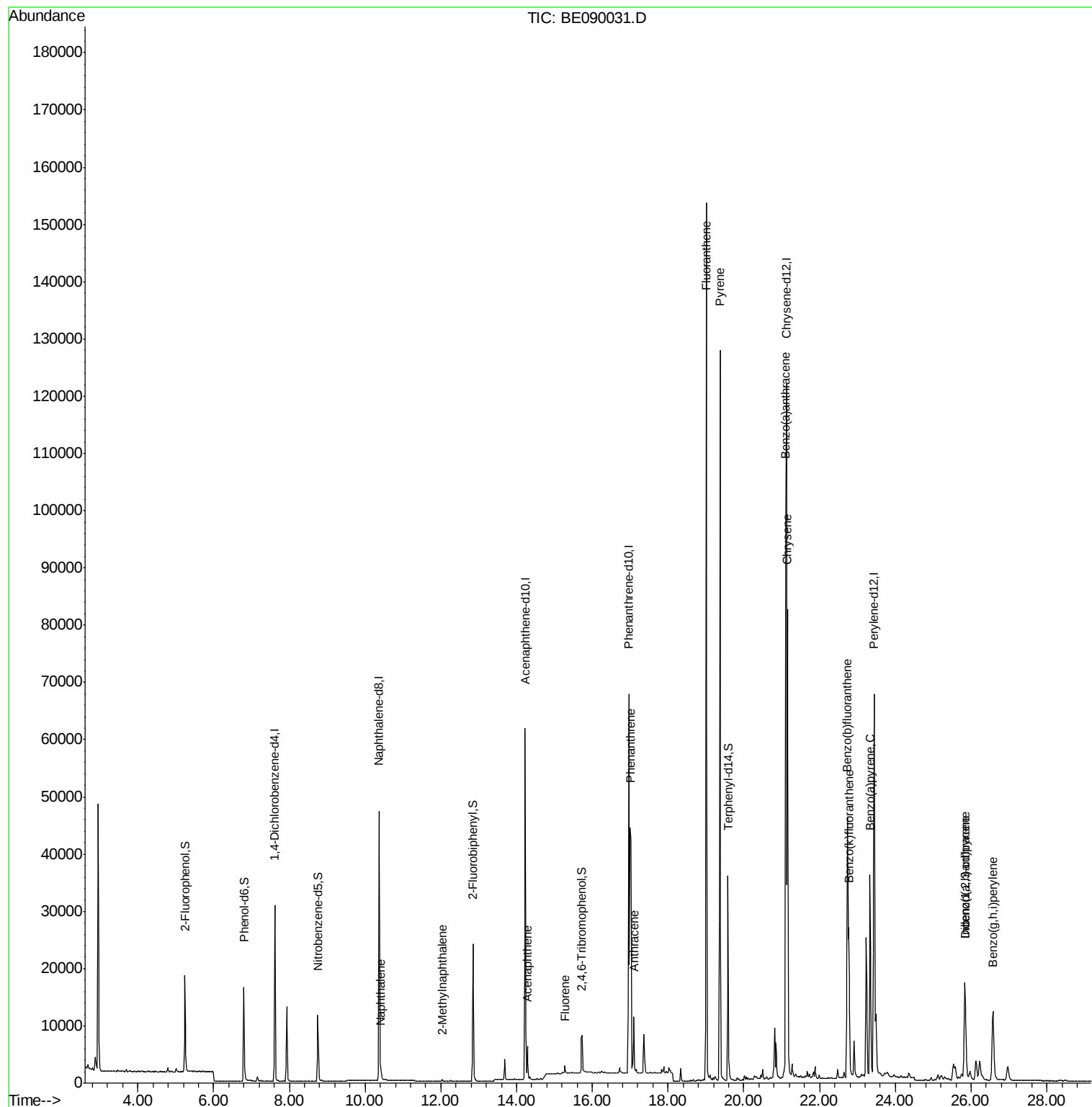
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Naphthalene	10.42	128	1425	0.10	ng	# 88
11) 2-Methylnaphthalene	12.04	142	299	0.03	ng	# 89
16) Acenaphthene	14.28	154	999	0.11	ng	97
17) Fluorene	15.27	166	1068	0.09	ng	# 97
22) Phenanthrene	17.00	178	66752	3.27	ng	100
23) Anthracene	17.10	178	13623m	0.73	ng	
24) Fluoranthene	19.01	202	134152	5.88	ng	100
26) Pyrene	19.37	202	113114	4.80	ng	98
28) Benzo(a)anthracene	21.10	228	70271	2.84	ng	99
29) Chrysene	21.16	228	73293	2.86	ng	98
31) Indeno(1,2,3-cd)pyrene	25.84	276	28561	1.16	ng	97
33) Benzo(b)fluoranthene	22.74	252	78456	3.72	ng	98
34) Benzo(k)fluoranthene	22.77	252	30576m	1.30	ng	
35) Benzo(a)pyrene	23.33	252	50694	2.60	ng	98
36) Dibenzo(a,h)anthracene	25.84	278	7738	0.39	ng	94
37) Benzo(g,h,i)perylene	26.57	276	27256	1.34	ng	98

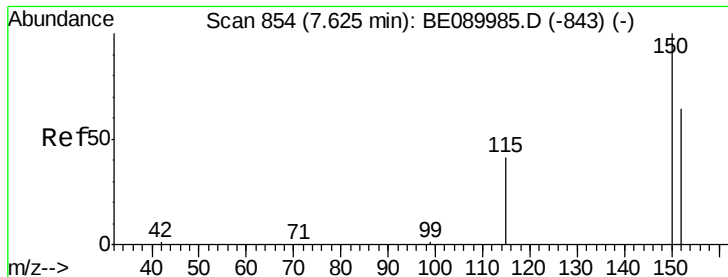
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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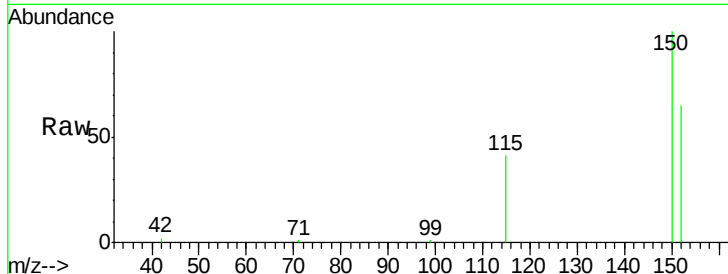


#1

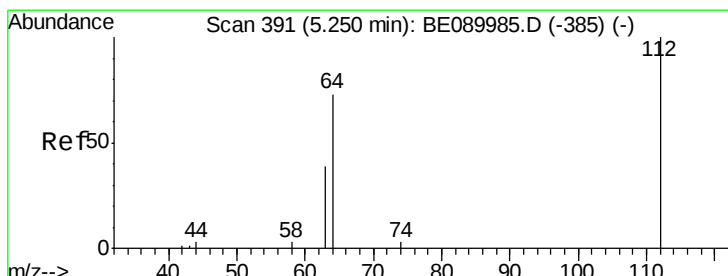
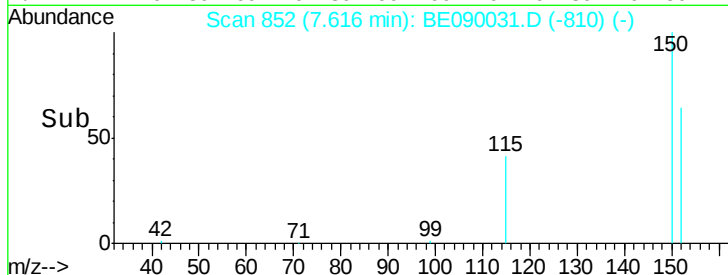
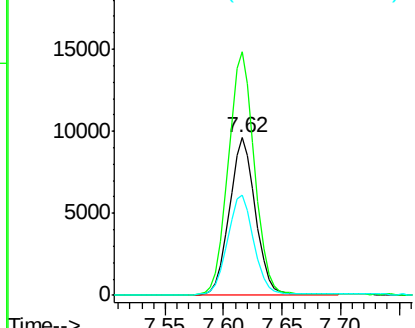
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.62 min Scan# 852
Delta R.T. -0.01 min
Lab File: BE090031.D
Acq: 1 Jul 2015 4:44

Instrument :
BNA_E
ClientSampleId :
X1SS0550006-150625DL

Tgt Ion:152 Resp: 14646
Ion Ratio Lower Upper
152 100
150 154.7 123.9 185.9
115 63.7 50.6 76.0



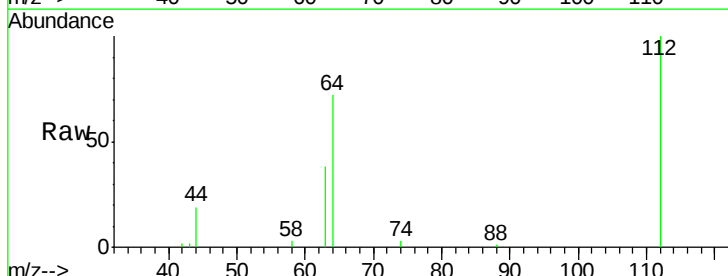
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



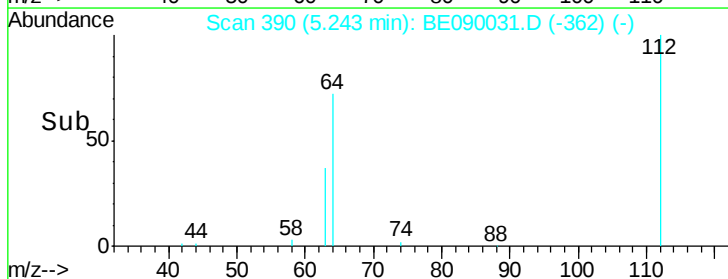
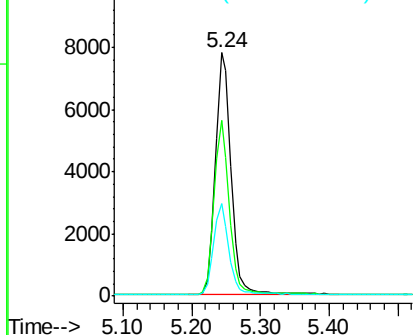
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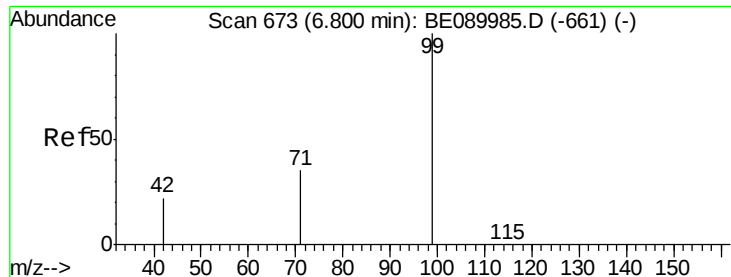
2-Fluorophenol
Concen: 3.68 ng
RT: 5.24 min Scan# 390
Delta R.T. -0.01 min
Lab File: BE090031.D
Acq: 1 Jul 2015 4:44

Tgt Ion:112 Resp: 12390
Ion Ratio Lower Upper
112 100
64 69.9 56.3 84.5
63 36.6 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: 3.86 ng

RT: 6.80 min Scan# 672

Delta R.T. -0.00 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

Instrument :

BNA_E

ClientSampleId :

X1SS0550006-150625DL

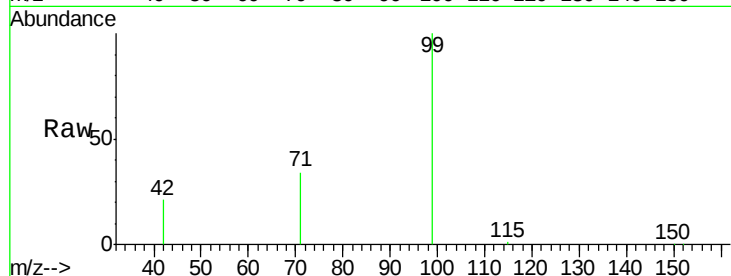
Tgt Ion: 99 Resp: 18165

Ion Ratio Lower Upper

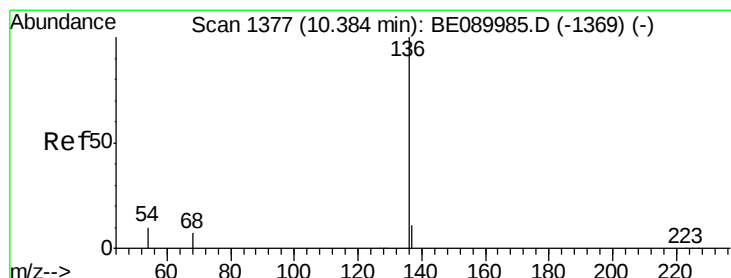
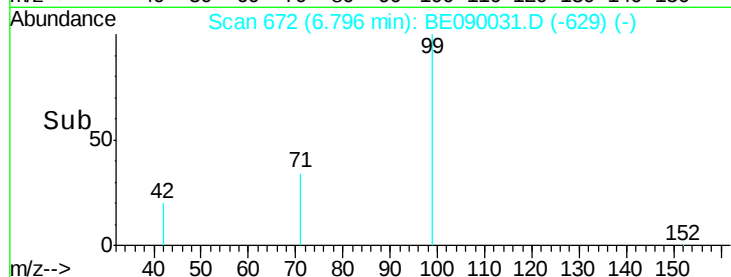
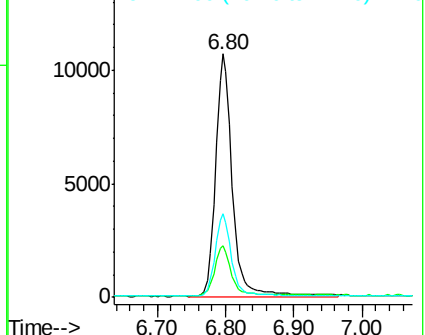
99 100

42 20.2 18.7 28.1

71 33.5 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: BE090031.D

Acq: 1 Jul 2015 4:44

Tgt Ion: 136 Resp: 62556

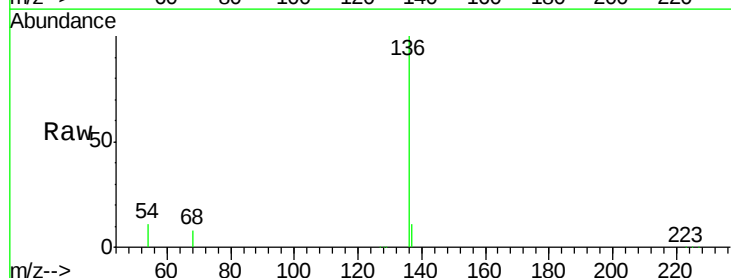
Ion Ratio Lower Upper

136 100

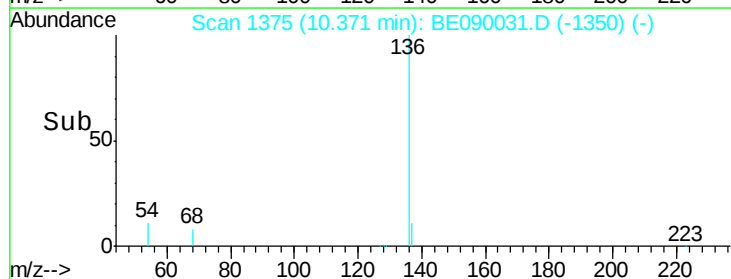
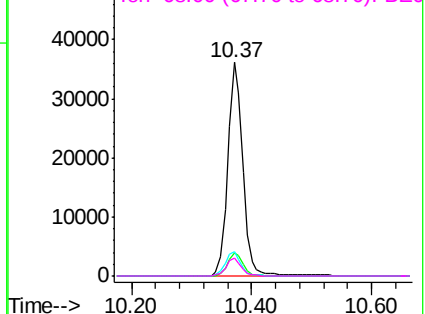
137 11.1 8.9 13.3

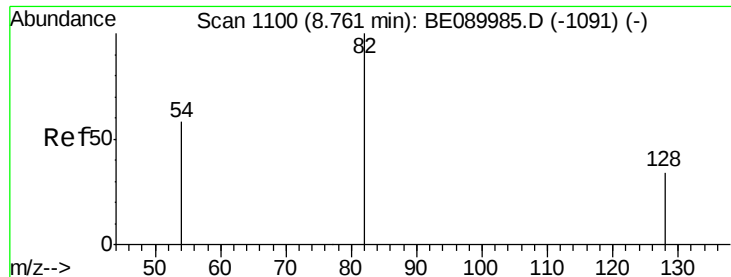
54 11.5 8.2 12.4

68 8.1 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: 2.15 ng

RT: 8.75 min Scan# 1098

Delta R.T. -0.01 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

Instrument :

BNA_E

ClientSampleId :

X1SS0550006-150625DL

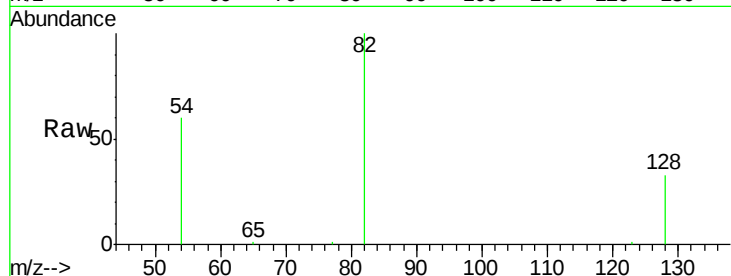
Tgt Ion: 82 Resp: 10693

Ion Ratio Lower Upper

82 100

128 33.1 28.0 42.0

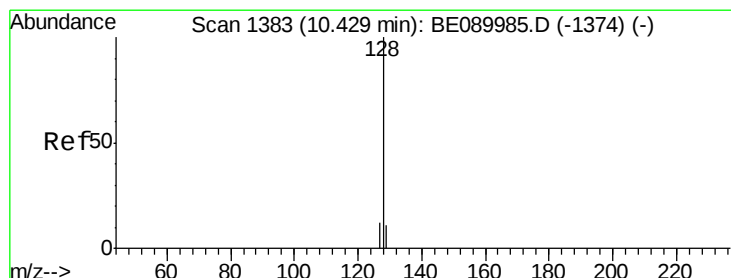
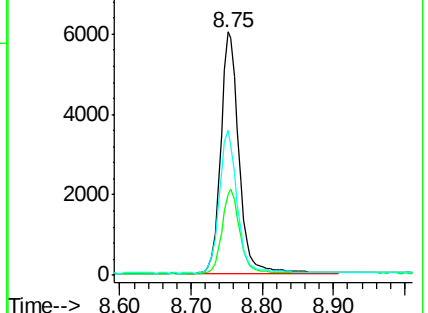
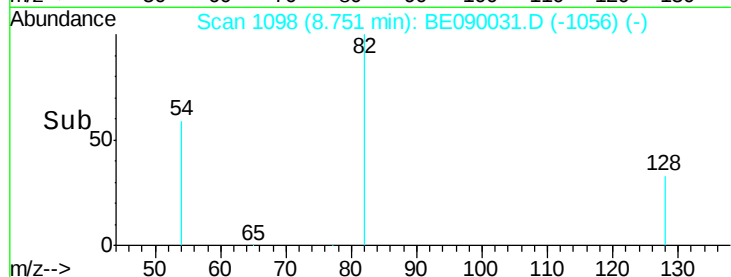
54 59.8 47.6 71.4



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: 0.10 ng

RT: 10.42 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

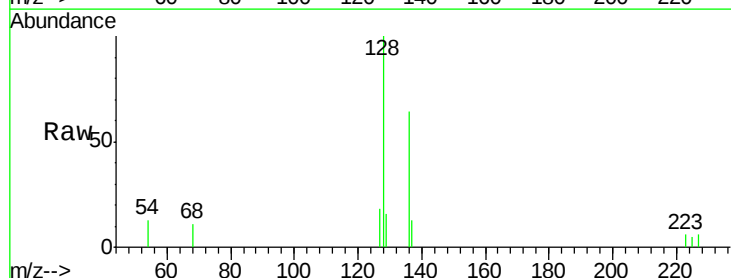
Tgt Ion: 128 Resp: 1425

Ion Ratio Lower Upper

128 100

129 16.0 9.3 13.9#

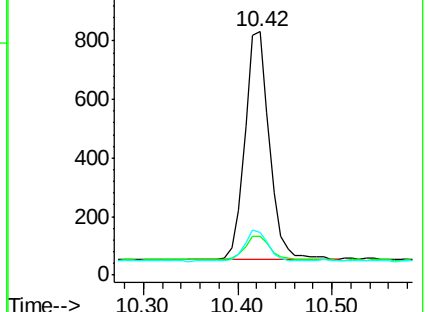
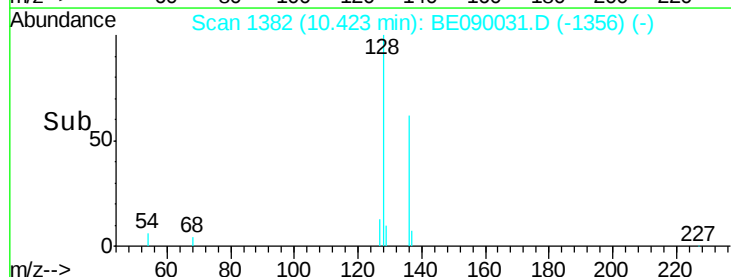
127 17.7 10.2 15.4#

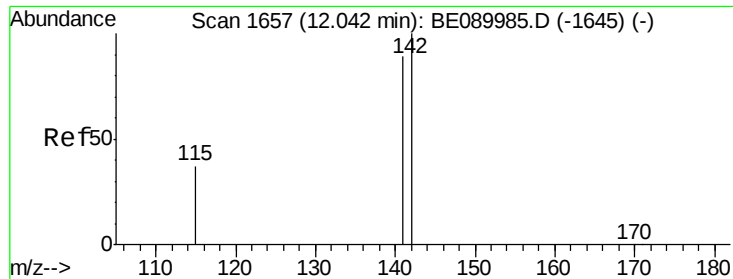


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

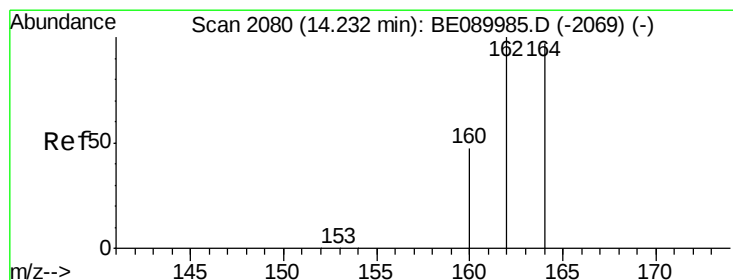
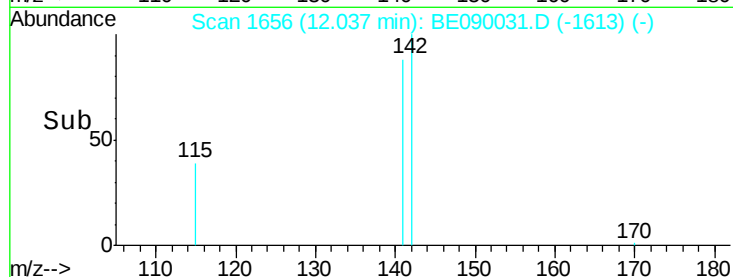
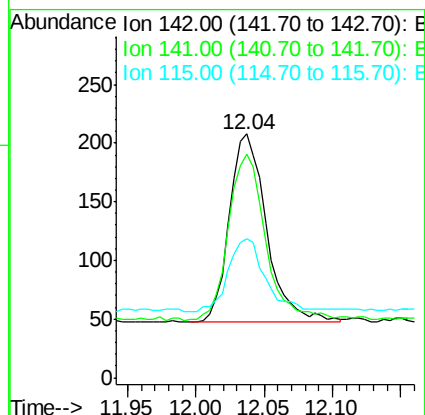
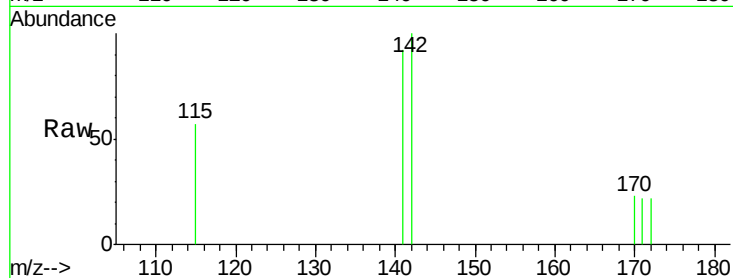




#11
2-Methylnaphthalene
Concen: 0.03 ng
RT: 12.04 min Scan# 1656
Delta R.T. -0.00 min
Lab File: BE090031.D
Acq: 1 Jul 2015 4:44

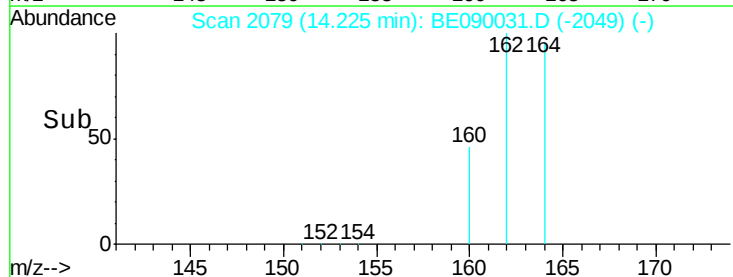
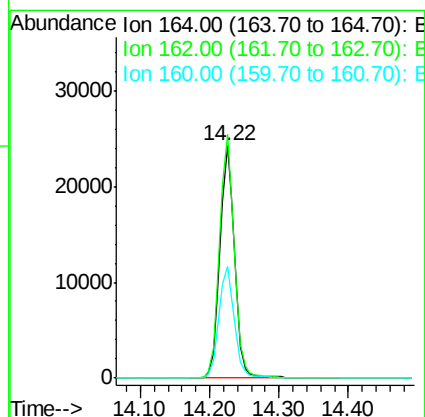
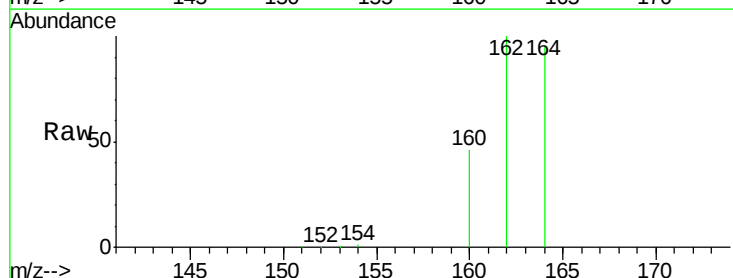
Instrument :
BNA_E
ClientSampleId :
X1SS0550006-150625DL

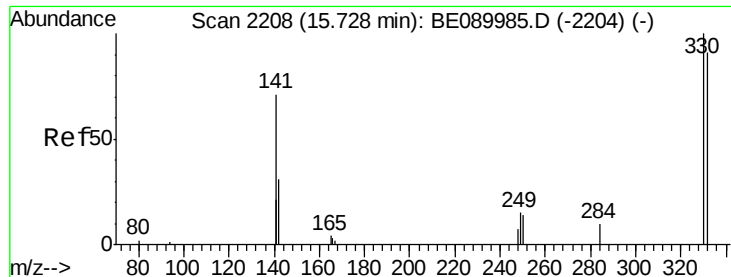
Tgt Ion:142 Resp: 299
Ion Ratio Lower Upper
142 100
141 91.8 71.3 106.9
115 56.7 30.4 45.6#



#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.22 min Scan# 2079
Delta R.T. -0.01 min
Lab File: BE090031.D
Acq: 1 Jul 2015 4:44

Tgt Ion:164 Resp: 34590
Ion Ratio Lower Upper
164 100
162 104.8 82.2 123.4
160 48.0 39.0 58.6

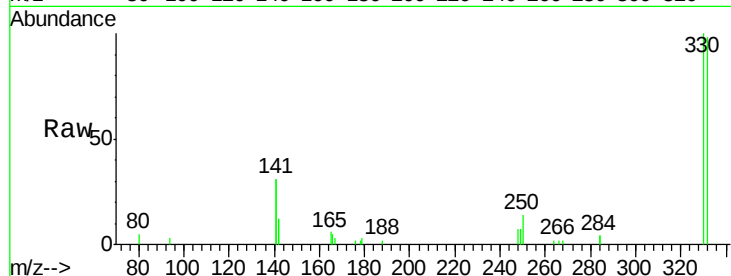




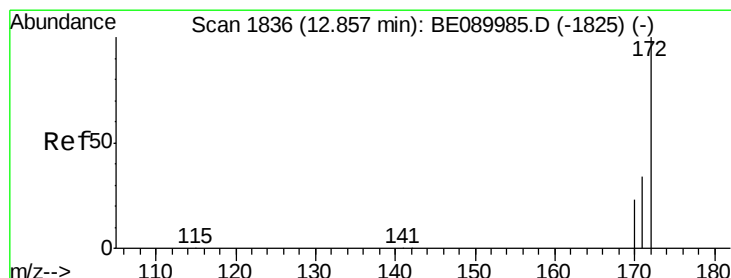
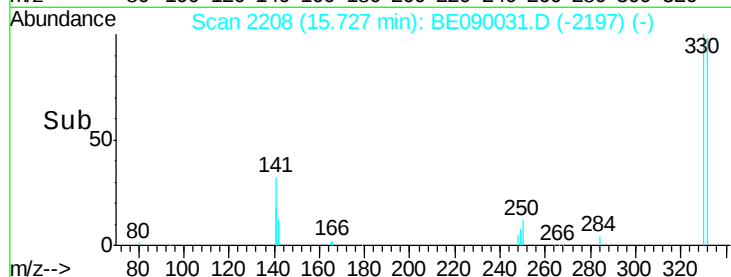
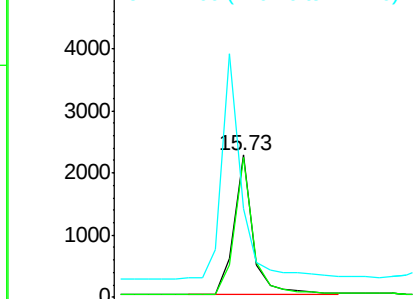
#13
 2,4,6-Tribromophenol
 Concen: 3.85 ng
 RT: 15.73 min Scan# 2208
 Delta R.T. -0.00 min
 Lab File: BE090031.D
 Acq: 1 Jul 2015 4:44

Instrument :
 BNA_E
 ClientSampleId :
 X1SS0550006-150625DL

Tgt Ion: 330 Resp: 3899
 Ion Ratio Lower Upper
 330 100
 332 95.3 76.4 114.6
 141 164.3 130.3 195.5

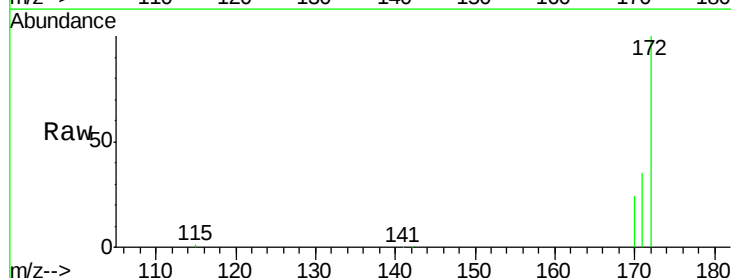


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

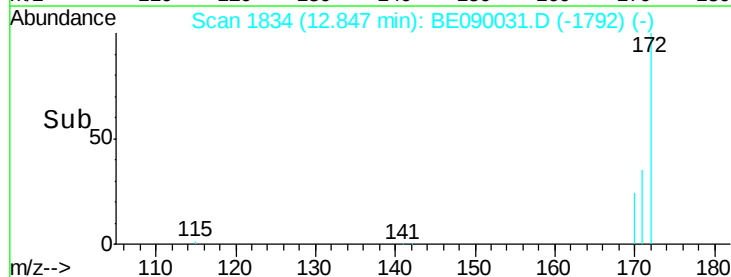
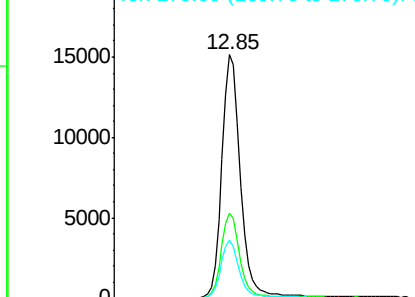


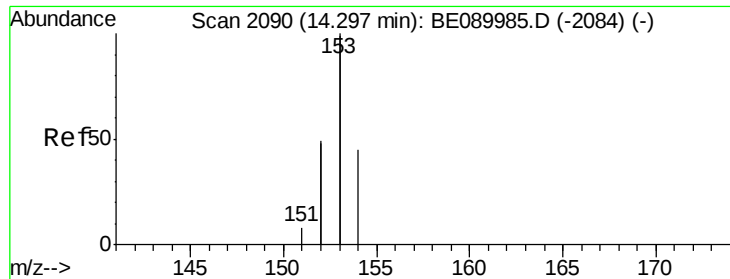
#14
 2-Fluorobiphenyl
 Concen: 2.29 ng
 RT: 12.85 min Scan# 1834
 Delta R.T. -0.01 min
 Lab File: BE090031.D
 Acq: 1 Jul 2015 4:44

Tgt Ion: 172 Resp: 23790
 Ion Ratio Lower Upper
 172 100
 171 35.0 27.8 41.6
 170 23.9 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: 0.11 ng

RT: 14.28 min Scan# 2088

Delta R.T. -0.01 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

Instrument :

BNA_E

ClientSampleId :

X1SS0550006-150625DL

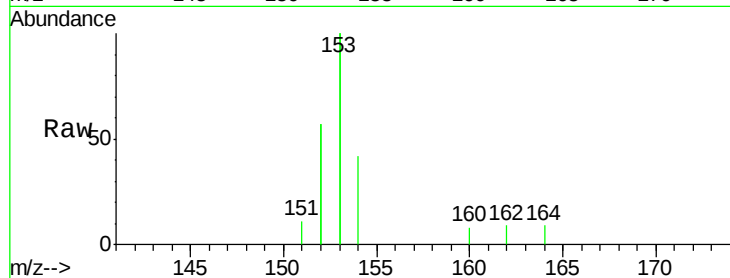
Tgt Ion:154 Resp: 999

Ion Ratio Lower Upper

154 100

153 457.7 358.6 538.0

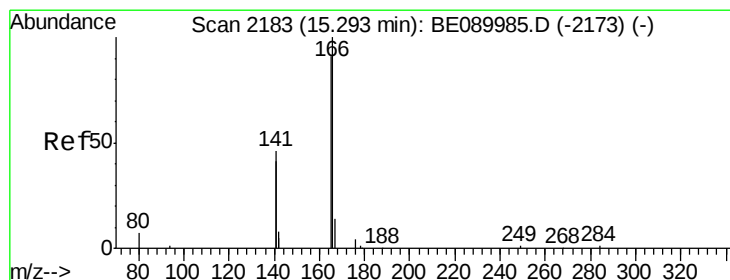
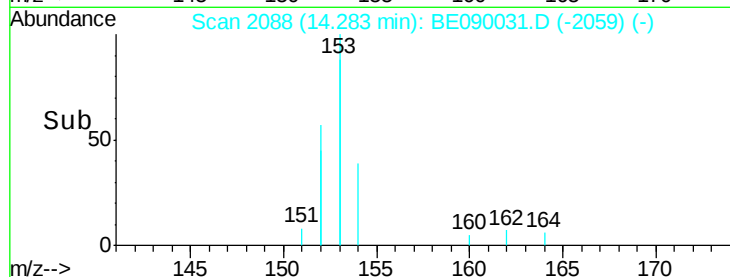
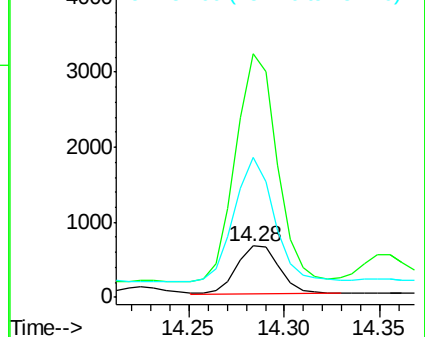
152 241.1 189.6 284.4



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: 0.09 ng

RT: 15.27 min Scan# 2182

Delta R.T. -0.02 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

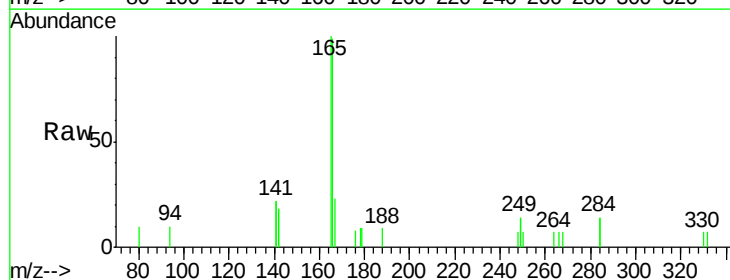
Tgt Ion:166 Resp: 1068

Ion Ratio Lower Upper

166 100

165 100.5 79.0 118.6

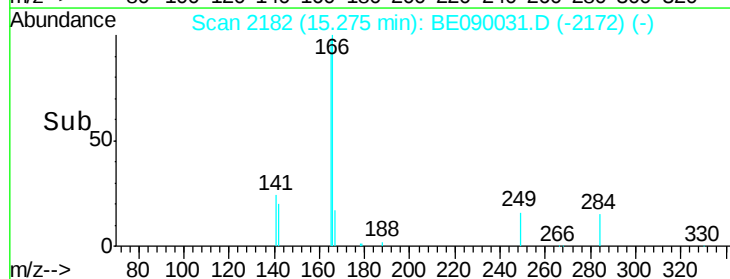
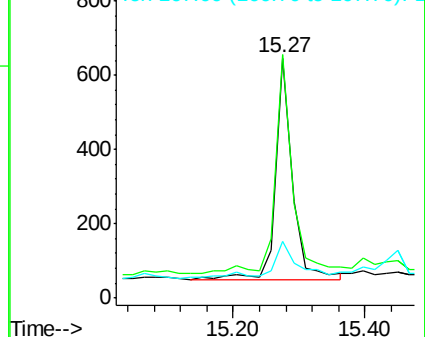
167 18.5 11.8 17.8#

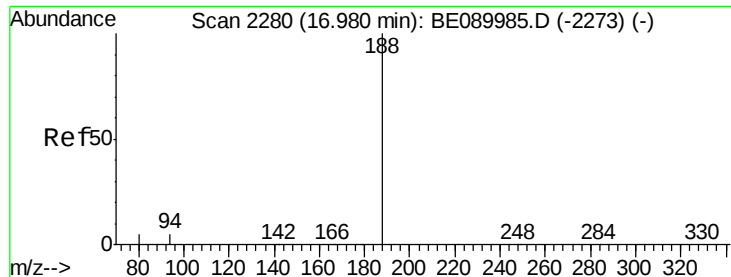


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

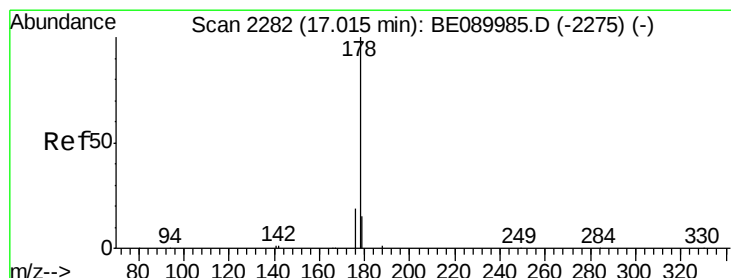
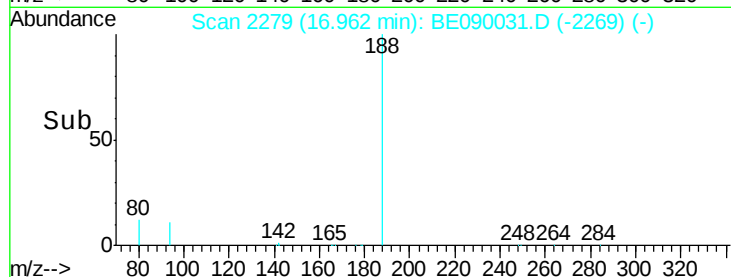
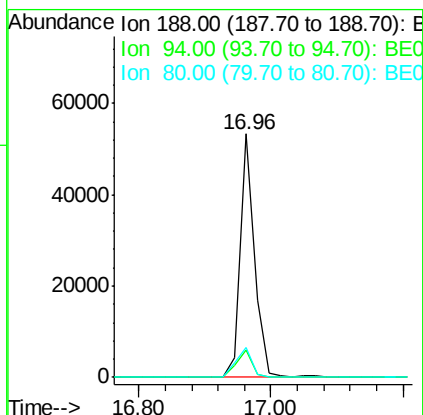
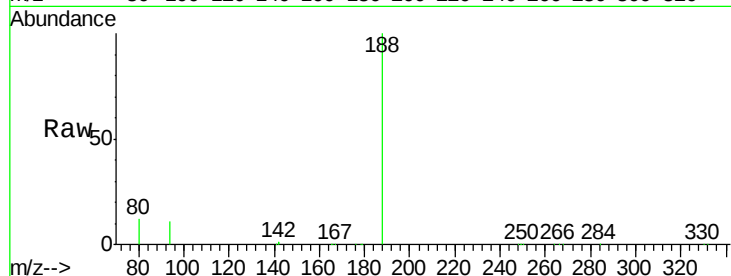




#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.96 min Scan# 2279
Delta R.T. -0.02 min
Lab File: BE090031.D
Acq: 1 Jul 2015 4:44

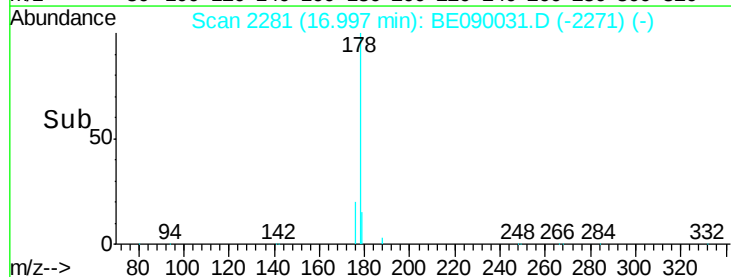
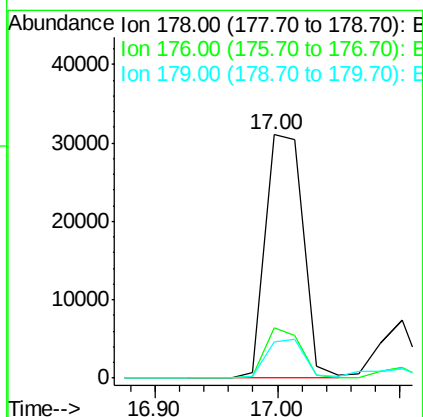
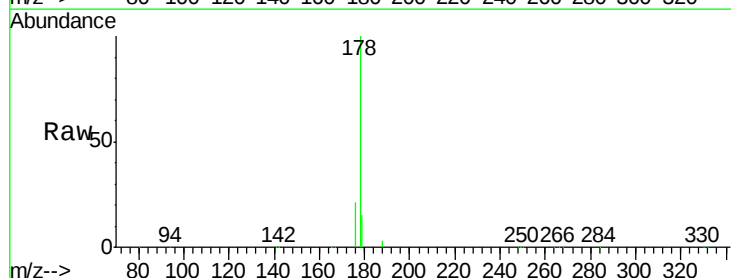
Instrument :
BNA_E
ClientSampleId :
X1SS0550006-150625DL

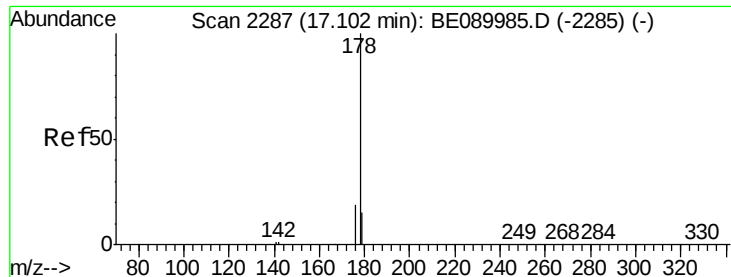
Tgt Ion:188 Resp: 79717
Ion Ratio Lower Upper
188 100
94 11.3 4.1 6.1#
80 12.2 4.2 6.2#



#22
Phenanthrene
Concen: 3.27 ng
RT: 17.00 min Scan# 2281
Delta R.T. -0.02 min
Lab File: BE090031.D
Acq: 1 Jul 2015 4:44

Tgt Ion:178 Resp: 66752
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.7 12.4 18.6





#23

Anthracene

Concen: 0.73 ng m

RT: 17.10 min Scan# 2287

Delta R.T. -0.00 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

Instrument :

BNA_E

ClientSampleId :

X1SS0550006-150625DL

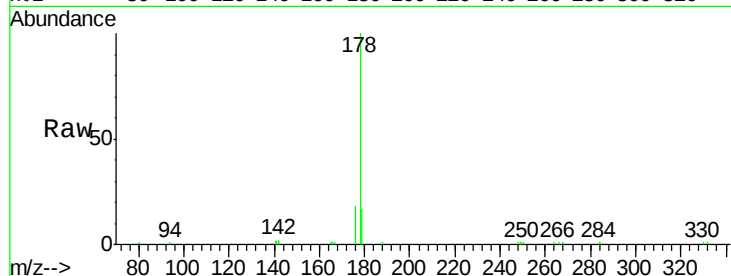
Tgt Ion:178 Resp: 13623

Ion Ratio Lower Upper

178 100

176 94.1 14.7 22.1#

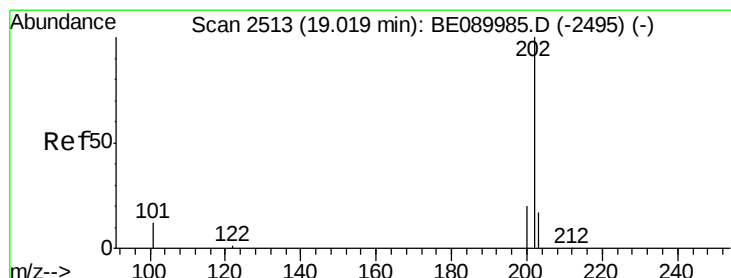
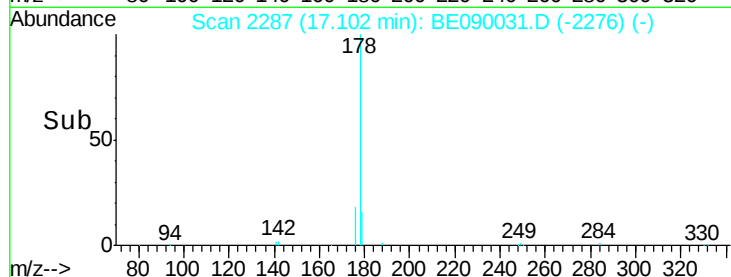
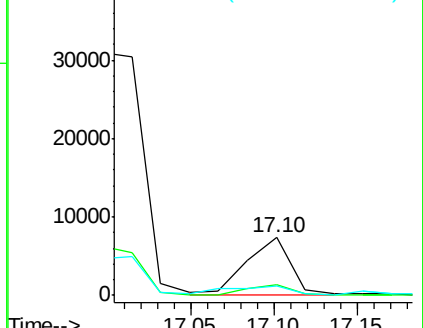
179 76.9 12.1 18.1#



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: 5.88 ng

RT: 19.01 min Scan# 2511

Delta R.T. -0.01 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

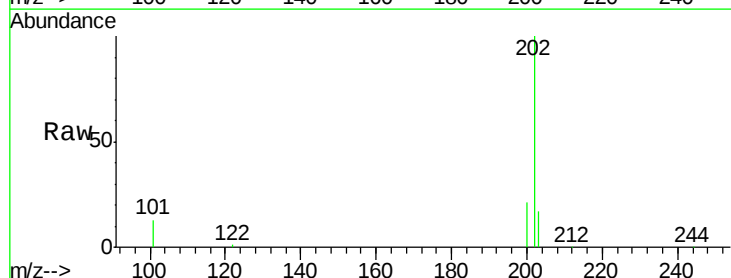
Tgt Ion:202 Resp: 134152

Ion Ratio Lower Upper

202 100

101 13.3 10.6 15.8

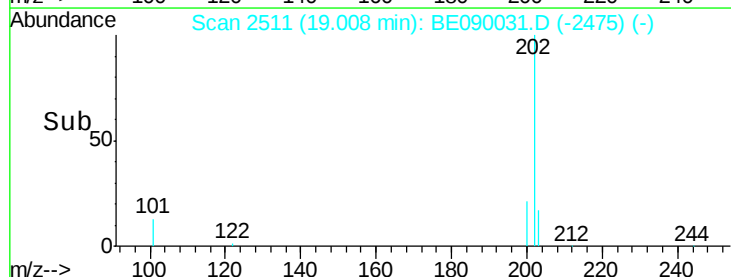
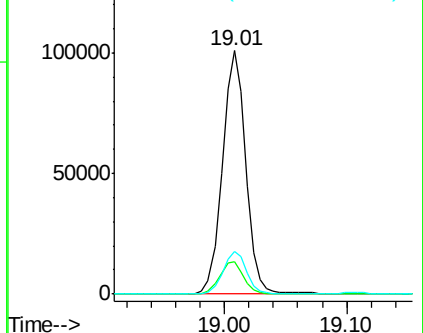
203 17.4 13.8 20.6

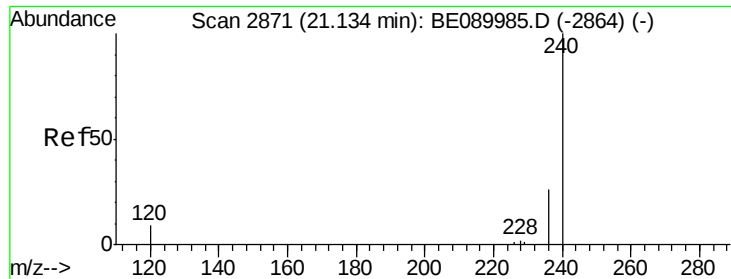


Abundance Ion 202.00 (201.70 to 202.70): E

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# 2869

Delta R.T. -0.01 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

Instrument :

BNA_E

ClientSampleId :

X1SS0550006-150625DL

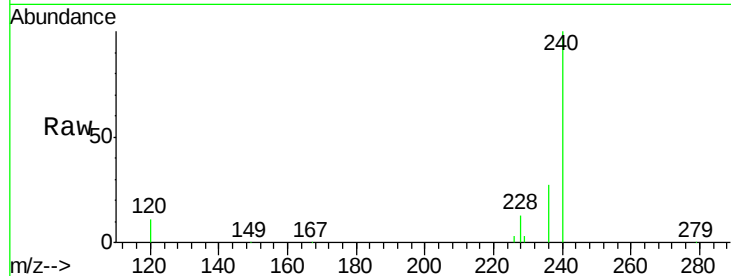
Tgt Ion:240 Resp: 98943

Ion Ratio Lower Upper

240 100

120 11.0 6.9 10.3#

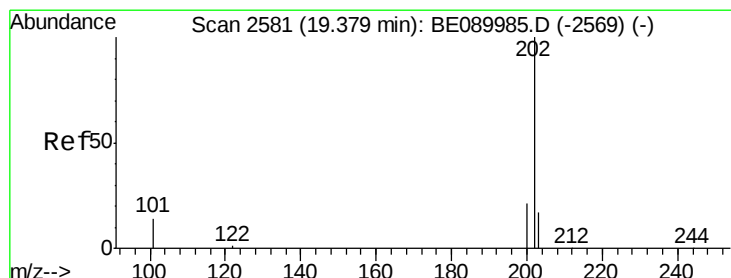
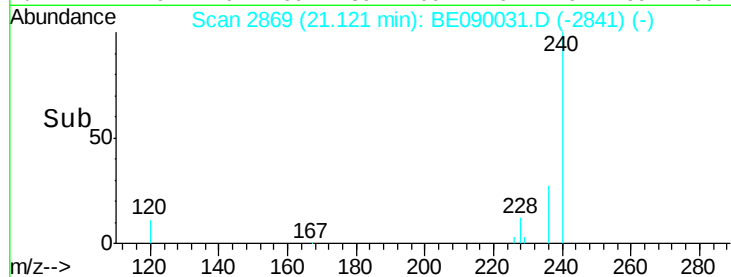
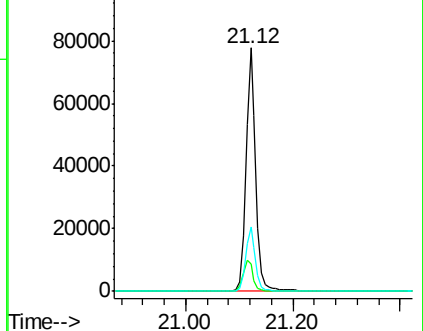
236 26.7 20.8 31.2



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: 4.80 ng

RT: 19.37 min Scan# 2579

Delta R.T. -0.01 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

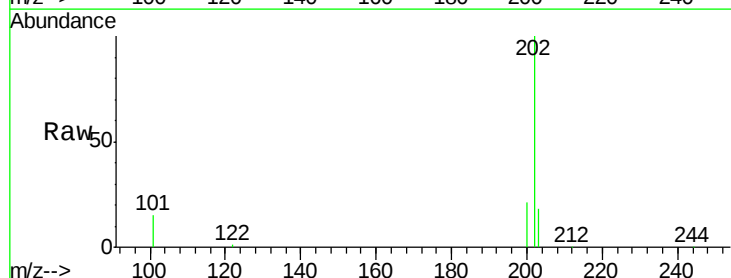
Tgt Ion:202 Resp: 113114

Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

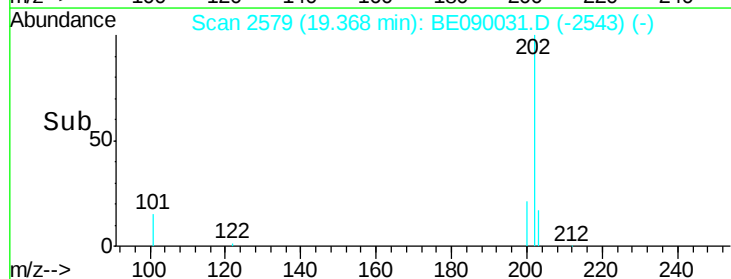
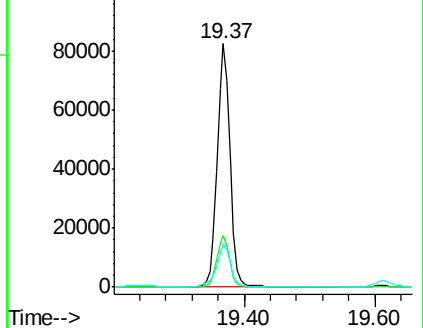
203 18.9 13.9 20.9

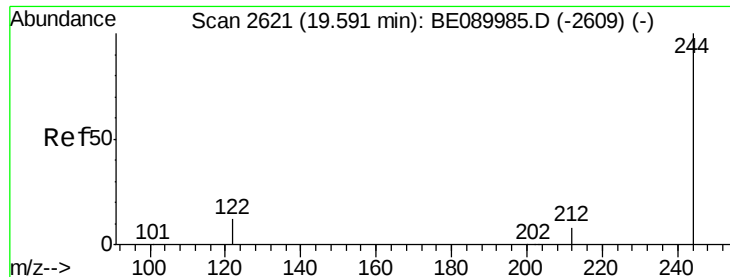


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

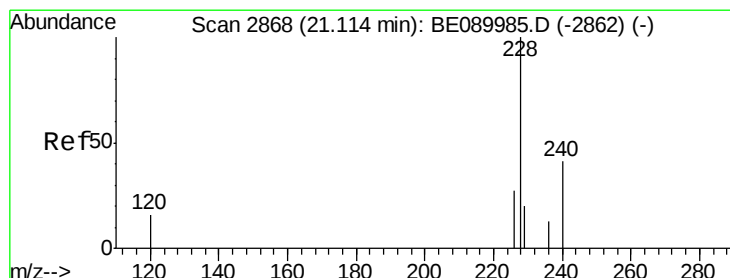
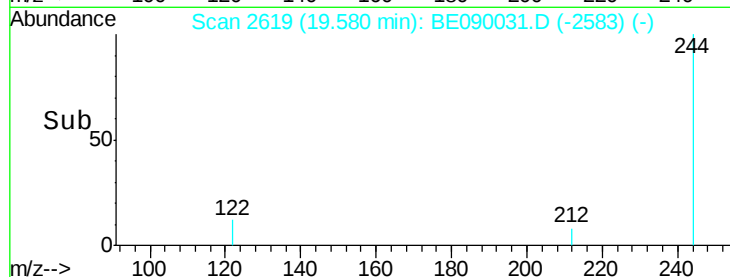
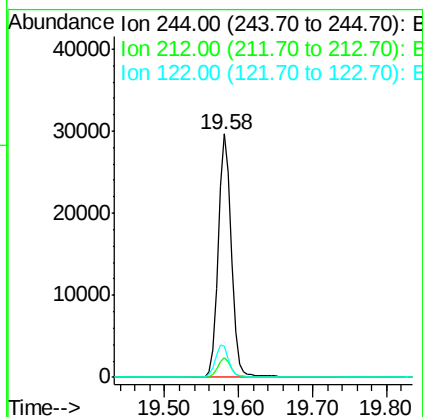
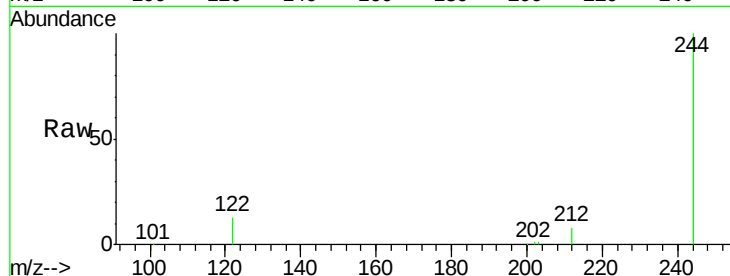




#27
 Terphenyl-d14
 Concen: 2.24 ng
 RT: 19.58 min Scan# 2619
 Delta R.T. -0.01 min
 Lab File: BE090031.D
 Acq: 1 Jul 2015 4:44

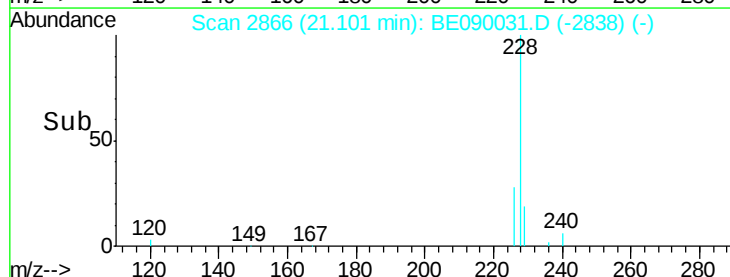
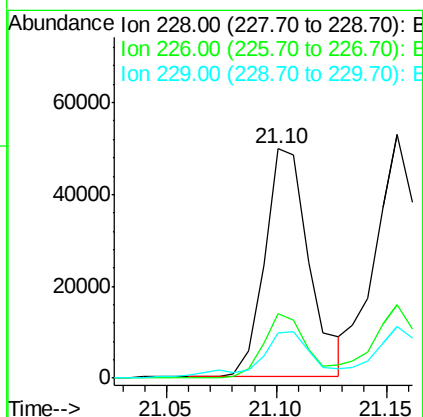
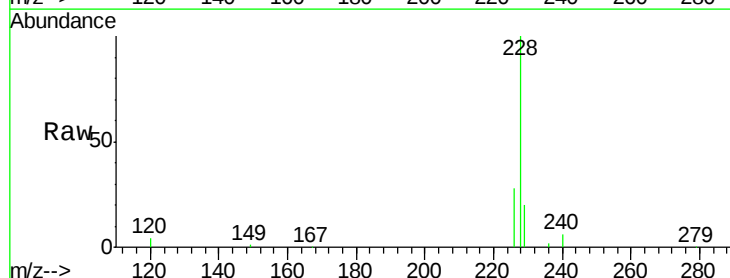
Instrument :
 BNA_E
 ClientSampleId :
 X1SS0550006-150625DL

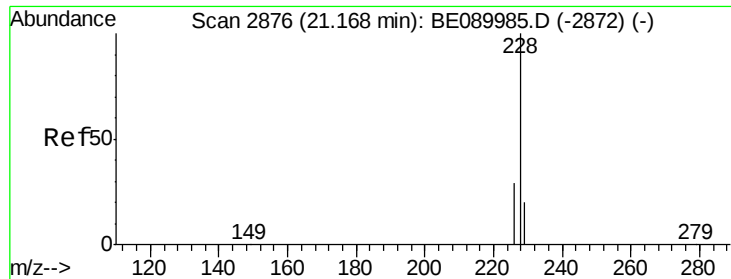
Tgt Ion: 244 Resp: 36929
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.6 9.8
 122 12.6 9.8 14.8



#28
 Benzo(a)anthracene
 Concen: 2.84 ng
 RT: 21.10 min Scan# 2866
 Delta R.T. -0.01 min
 Lab File: BE090031.D
 Acq: 1 Jul 2015 4:44

Tgt Ion: 228 Resp: 70271
 Ion Ratio Lower Upper
 228 100
 226 28.1 21.8 32.6
 229 19.8 15.8 23.6





#29

Chrysene

Concen: 2.86 ng

RT: 21.16 min Scan# 2874

Delta R.T. -0.01 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

Instrument :

BNA_E

ClientSampleId :

X1SS0550006-150625DL

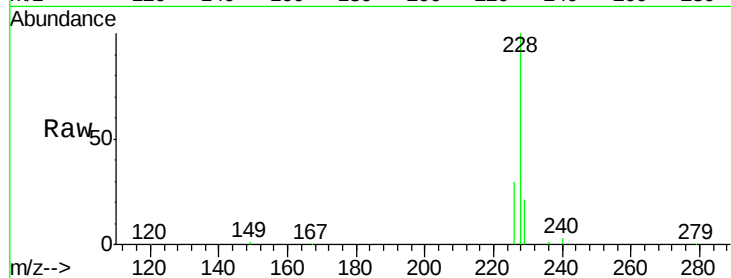
Tgt Ion:228 Resp: 73293

Ion Ratio Lower Upper

228 100

226 30.2 23.4 35.0

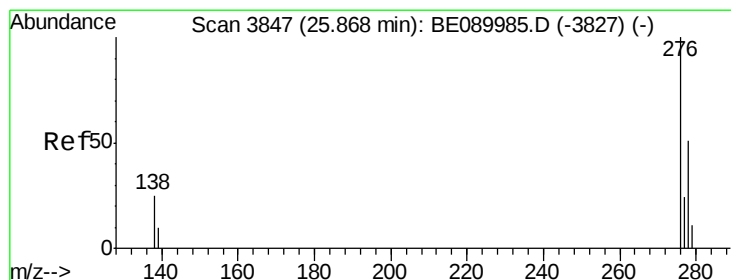
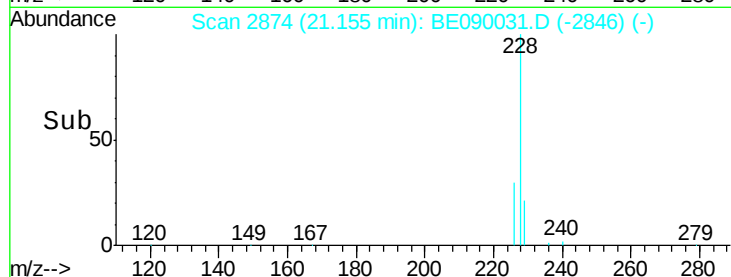
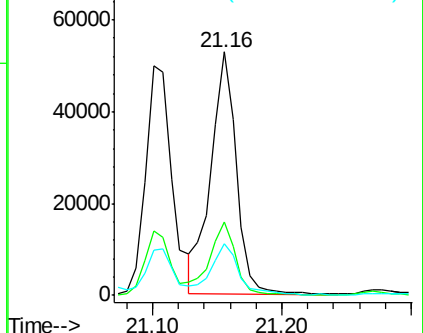
229 21.3 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#31

Indeno(1,2,3-cd)pyrene

Concen: 1.16 ng

RT: 25.84 min Scan# 3841

Delta R.T. -0.03 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

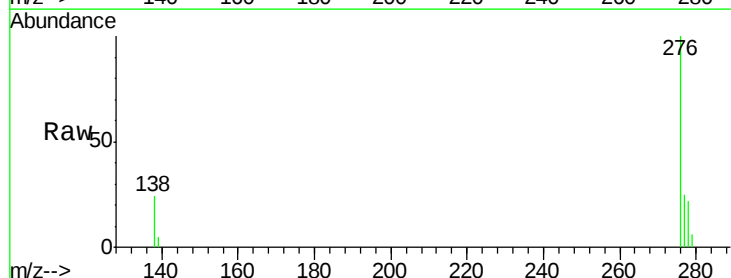
Tgt Ion:276 Resp: 28561

Ion Ratio Lower Upper

276 100

138 24.7 21.3 31.9

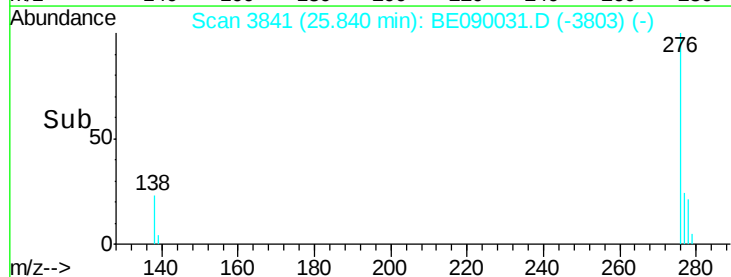
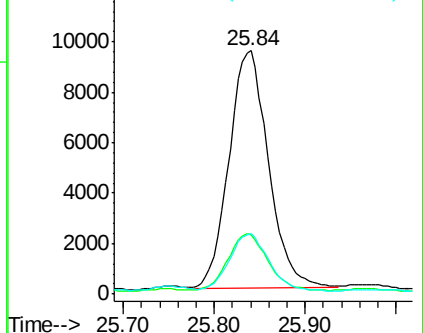
277 23.8 19.7 29.5

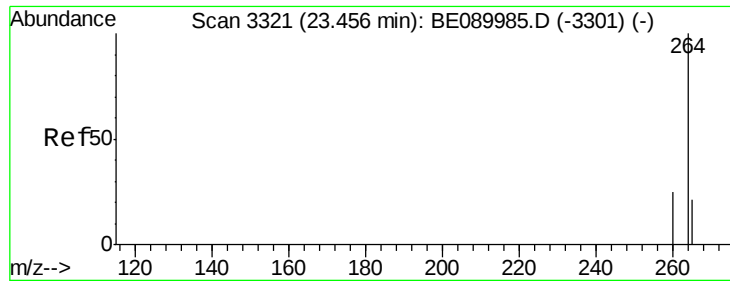


Abundance Ion 276.00 (275.70 to 276.70): E

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. -0.02 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

Instrument :

BNA_E

ClientSampleId :

X1SS0550006-150625DL

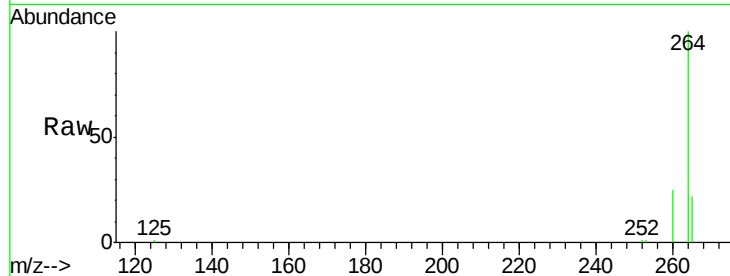
Tgt Ion:264 Resp: 95703

Ion Ratio Lower Upper

264 100

260 25.1 20.2 30.2

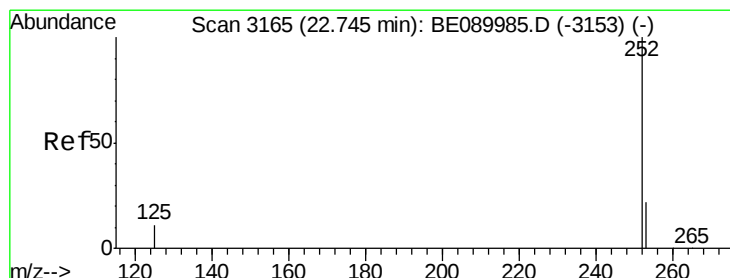
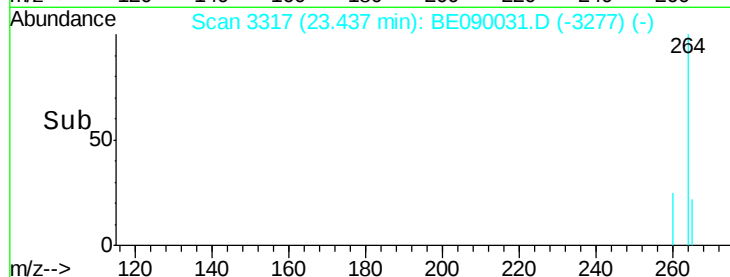
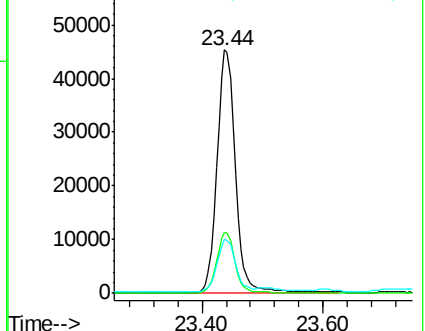
265 22.3 17.1 25.7



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: 3.72 ng

RT: 22.74 min Scan# 3163

Delta R.T. -0.01 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

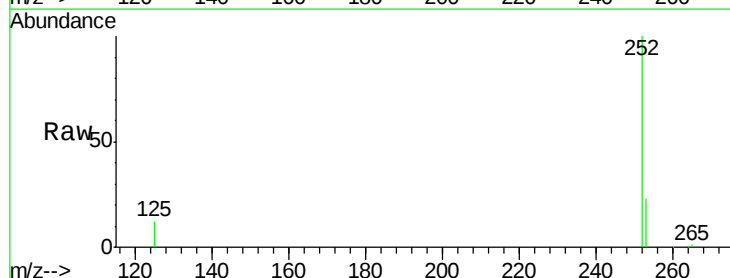
Tgt Ion:252 Resp: 78456

Ion Ratio Lower Upper

252 100

253 23.0 17.8 26.8

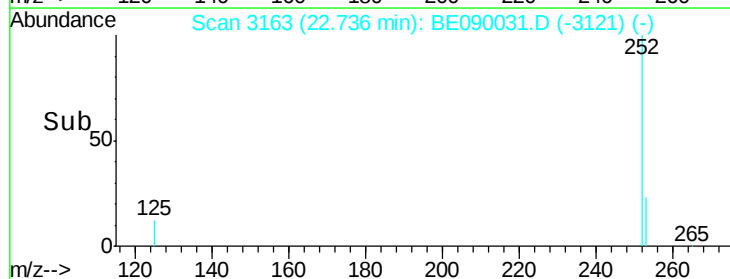
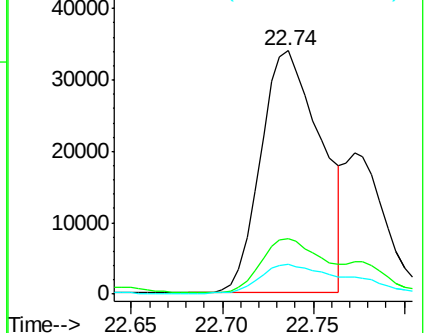
125 12.1 9.0 13.4

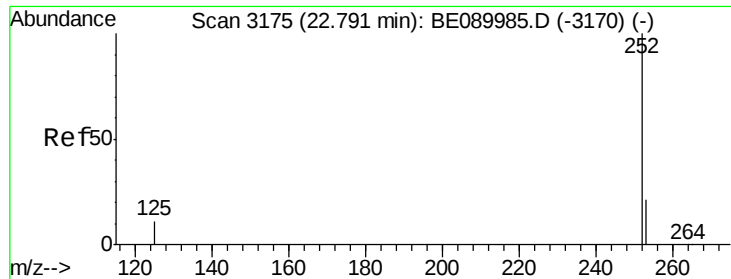


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#34

Benzo(k)fluoranthene

Concen: 1.30 ng m

RT: 22.77 min Scan# 3171

Delta R.T. -0.02 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

Instrument :

BNA_E

ClientSampleId :

X1SS0550006-150625DL

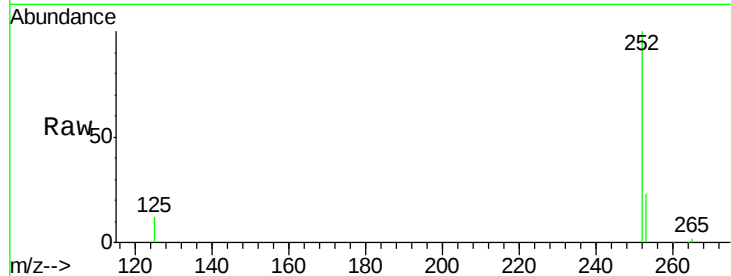
Tgt Ion:252 Resp: 30576

Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

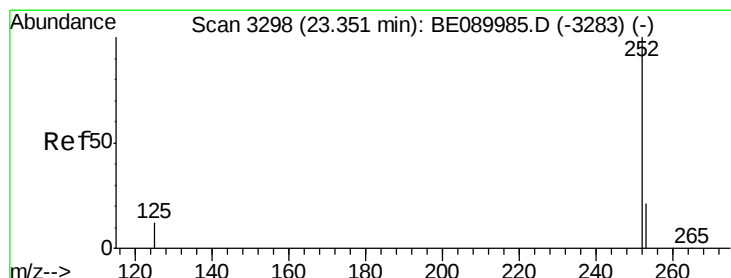
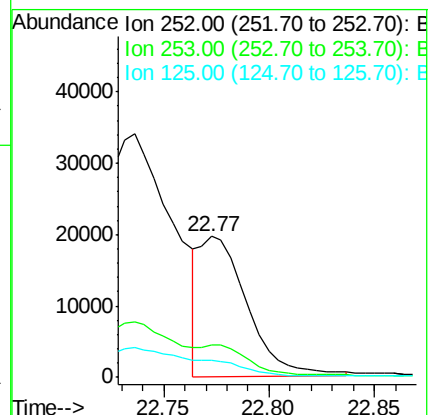
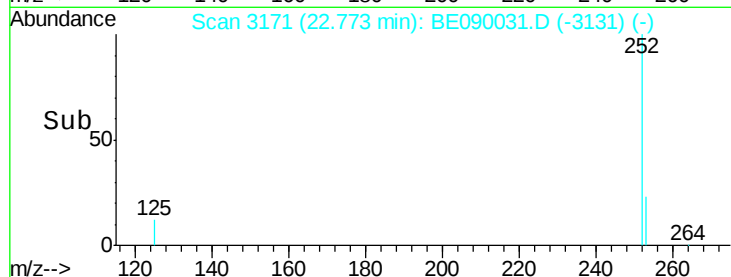
125 12.4 9.5 14.3



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: 2.60 ng

RT: 23.33 min Scan# 3294

Delta R.T. -0.02 min

Lab File: BE090031.D

Acq: 1 Jul 2015 4:44

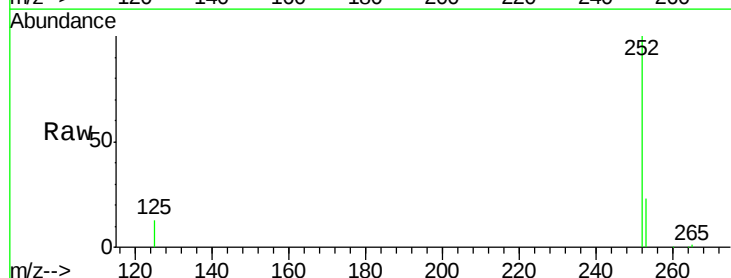
Tgt Ion:252 Resp: 50694

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.2

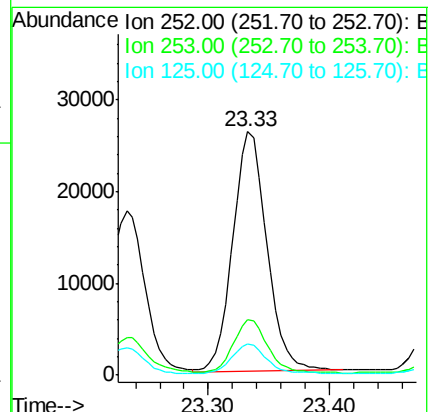
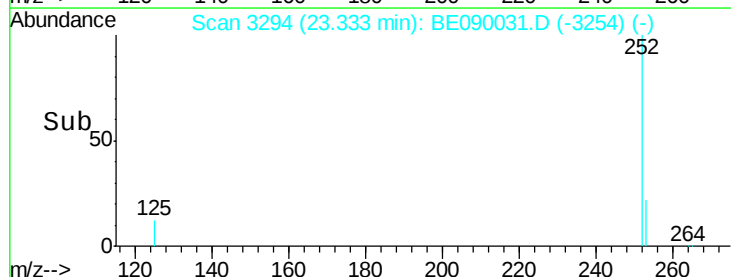
125 12.6 10.5 15.7

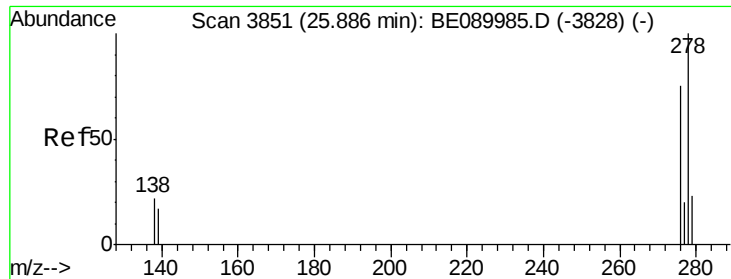


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



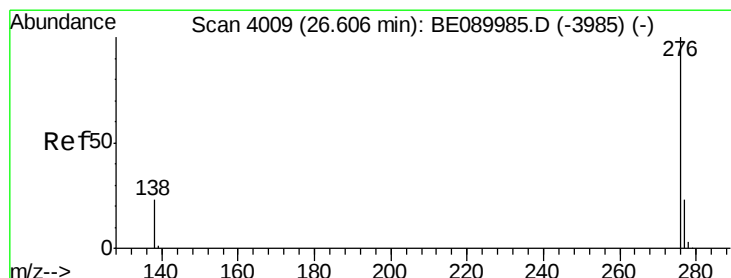
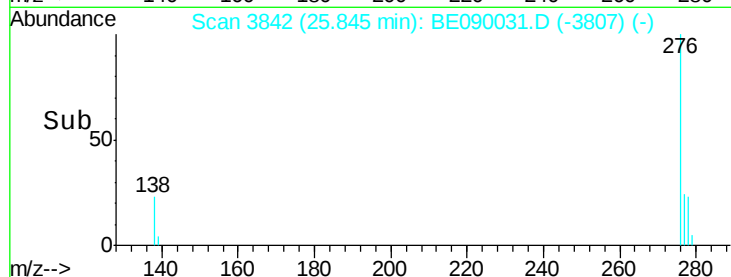
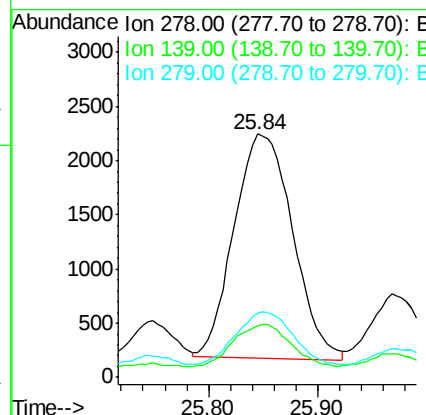
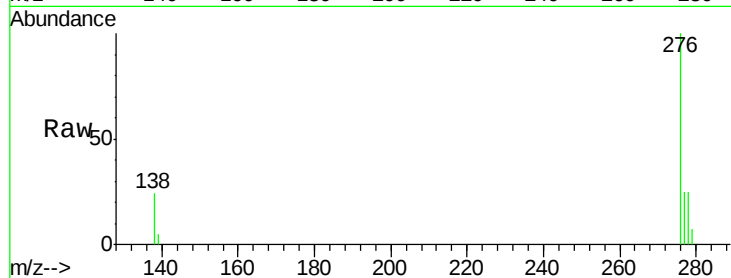


#36
Dibenzo(a,h)anthracene
Concen: 0.39 ng
RT: 25.84 min Scan# 3842
Delta R.T. -0.04 min
Lab File: BE090031.D
Acq: 1 Jul 2015 4:44

Instrument :
BNA_E
ClientSampleId :
X1SS0550006-150625DL

Tgt Ion: 278 Resp: 7738

Ion	Ratio	Lower	Upper
278	100		
139	21.4	14.4	21.6
279	26.5	19.0	28.6



#37
Benzo(g,h,i)perylene
Concen: 1.34 ng
RT: 26.57 min Scan# 4002
Delta R.T. -0.03 min
Lab File: BE090031.D
Acq: 1 Jul 2015 4:44

Tgt Ion: 276 Resp: 27256

Ion	Ratio	Lower	Upper
276	100		
277	24.2	18.8	28.2
138	24.7	18.6	27.8

