

Data Path : Z:\HPCHEM1\BNA E\DATA\BE102315\
 Data File : BE091040.D
 Acq On : 23 Oct 2015 19:09
 Operator : UM/NP
 Sample : G4143-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Oct 23 23:46:20 2015
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE092815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 07 17:11:43 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.91	152	18799	5.00	ng	-0.05
7) Naphthalene-d8	9.58	136	95542	5.00	ng	-0.06
13) Acenaphthene-d10	13.41	164	58591	5.00	ng	-0.05
19) Phenanthrene-d10	16.13	188	149816	5.00	ng	-0.05
26) Chrysene-d12	20.29	240	177872	5.00	ng	-0.04
35) Perylene-d12	22.19	264	173565	5.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	4.93	112	15760	4.17	ng	-0.07
5) Phenol-d6	6.55	99	14318	2.97	ng	-0.07
8) Nitrobenzene-d5	8.16	82	32536	5.16	ng	-0.07
14) 2,4,6-Tribromophenol	14.93	330	17511	8.61	ng	-0.05
15) 2-Fluorobiphenyl	12.04	172	60460	3.81	ng	-0.06
29) Terphenyl-d14	18.68	244	103096	4.70	ng	-0.05

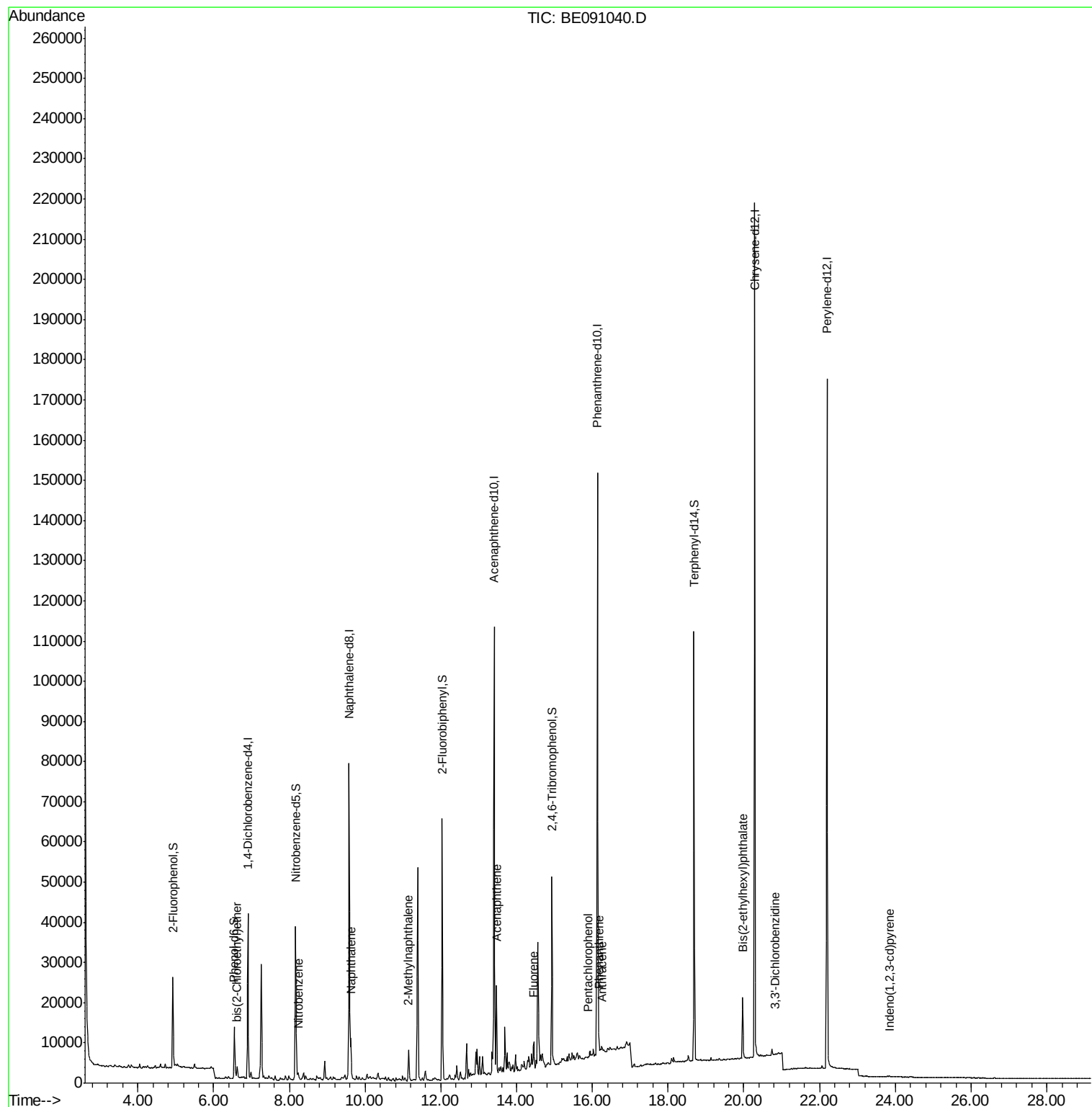
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.20	88	23	Below Cal	#	42
3) n-Nitrosodimethylamine	3.69	42	23	Below Cal	#	1
6) bis(2-Chloroethyl)ether	6.62	93	95	0.06 ng	#	1
9) Nitrobenzene	8.23	77	1431	0.47 ng	#	20
10) Naphthalene	9.62	128	13713	0.67 ng		98
11) Hexachlorobutadiene	9.80	225	8	Below Cal		85
12) 2-Methylnaphthalene	11.15	142	5472	0.45 ng	#	92
17) Acenaphthene	13.47	154	3359	0.21 ng	#	76
18) Fluorene	14.46	166	4105	0.21 ng	#	95
21) Hexachlorobenzene	15.40	284	18	Below Cal	#	1
22) Pentachlorophenol	15.89	266	110	0.07 ng	#	81
23) Phenanthrene	16.17	178	4262	0.06 ng	#	84
24) Anthracene	16.25	178	1251	0.05 ng	#	4
25) Fluoranthene	18.16	202	1174	Below Cal	#	82
27) Benzidine	18.57	184	302	Below Cal	#	1
31) 3,3'-Dichlorobenzidine	20.83	252	83	0.04 ng	#	14
32) Chrysene	20.31	228	511	Below Cal	#	16
33) Bis(2-ethylhexyl)phthalate	19.97	149	16231	1.22 ng		98
34) Indeno(1,2,3-cd)pyrene	23.84	276	238	0.12 ng	#	71
37) Benzo(k)fluoranthene	21.65	252	248	Below Cal	#	1

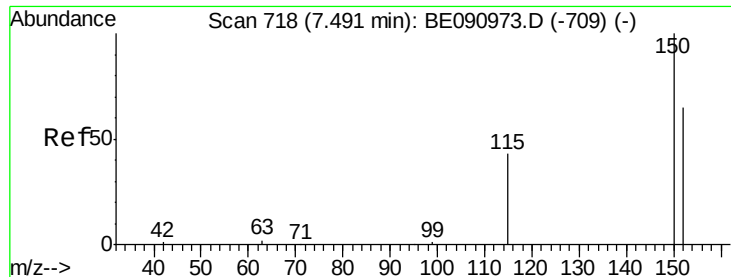
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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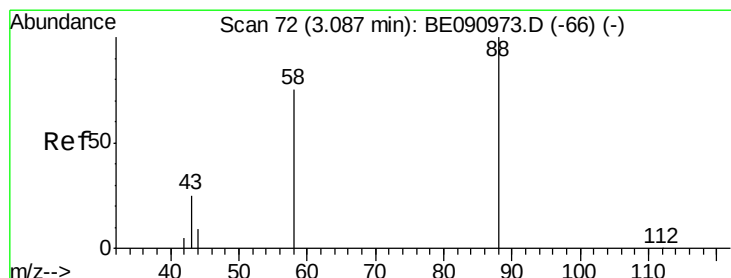
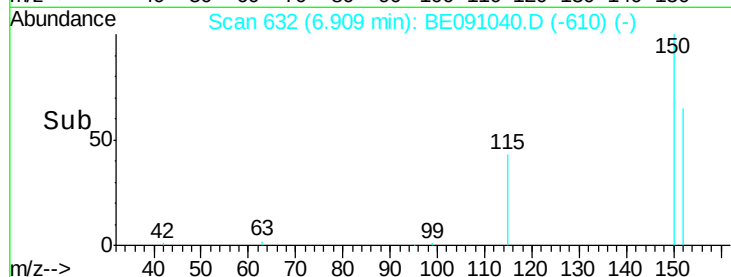
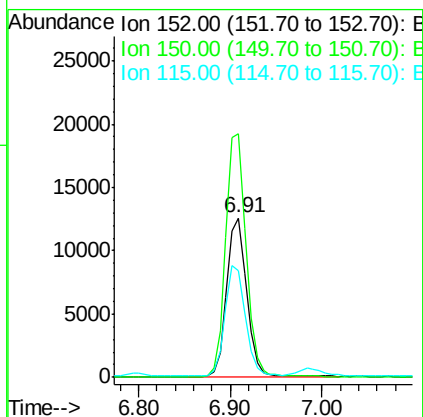
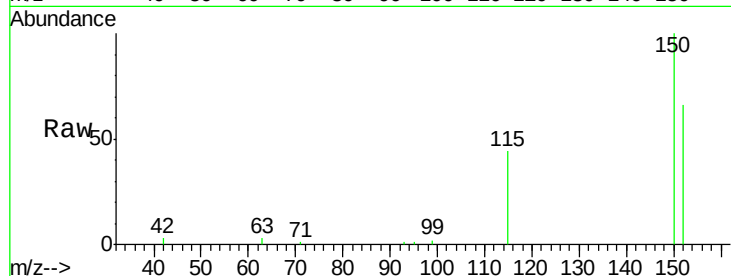


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 6.91 min Scan# 632
Delta R.T. -0.05 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

Instrument :
BNA_E
ClientSampleId :

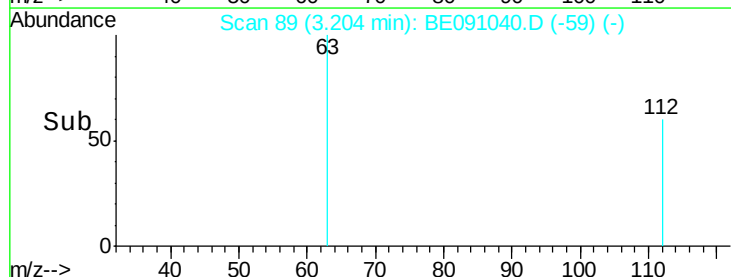
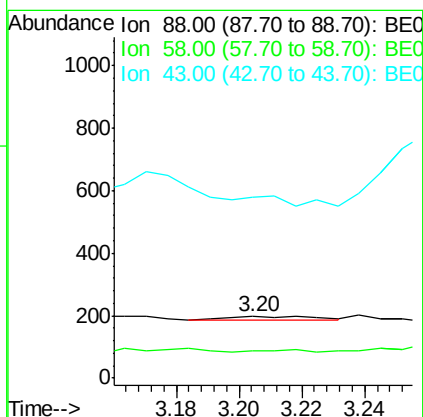
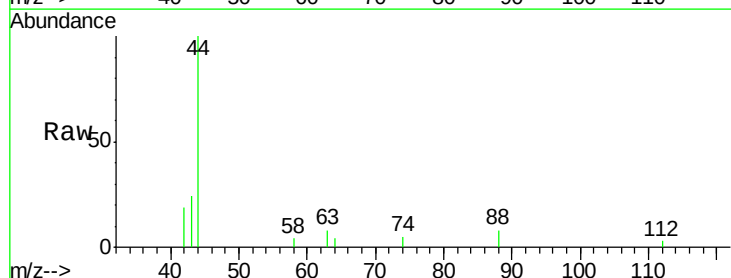
Tot Ion:152 Resp: 18799
Ion Ratio Lower Upper
152 100
150 152.4 122.6 183.8
115 66.6 52.8 79.2

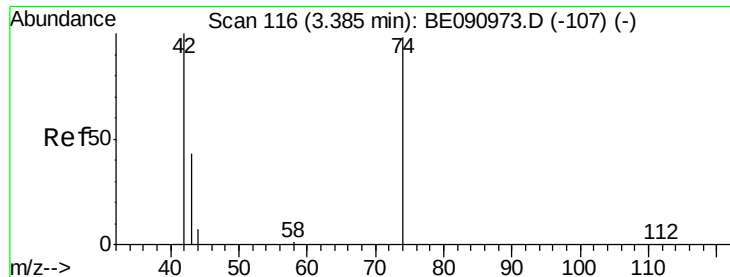


#2

1,4-Dioxane
Concen: Below Cal
RT: 3.20 min Scan# 89
Delta R.T. 0.00 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
58 30.4 65.8 98.6#
43 0.0 25.3 37.9#



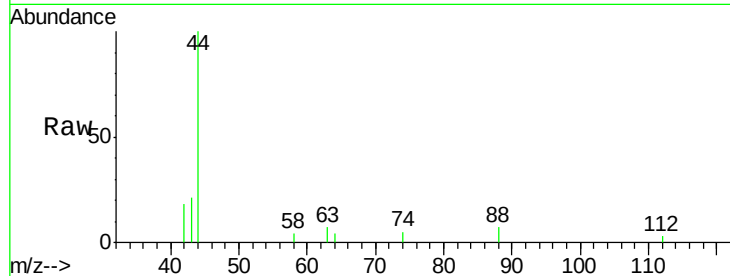


#3

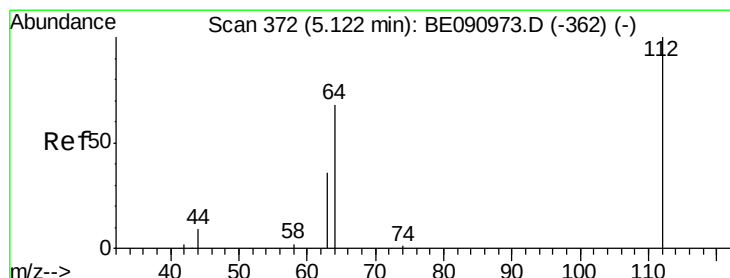
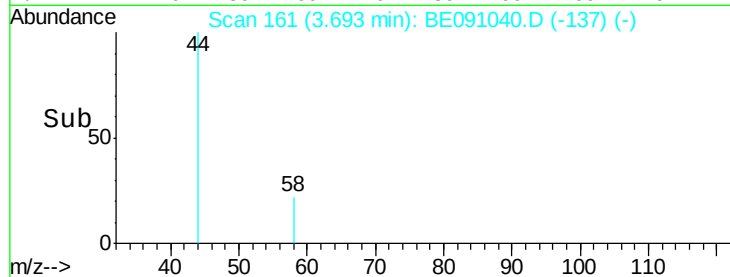
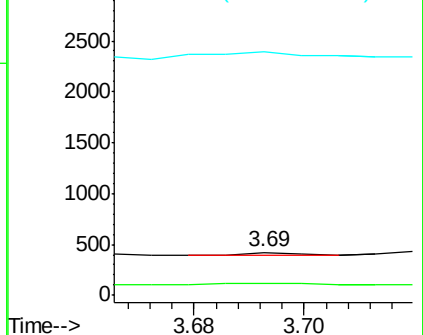
n-Nitrosodimethylamine
Concen: Below Cal
RT: 3.69 min Scan# 161
Delta R.T. -0.04 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

Instrument :
BNA_E
ClientSampleId :

Tot Ion: 42 Resp: 23
Ion Ratio Lower Upper
42 100
74 87.0 87.9 131.9#
44 465.2 6.6 9.8#



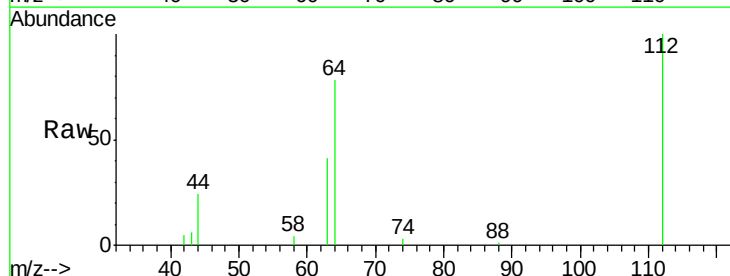
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



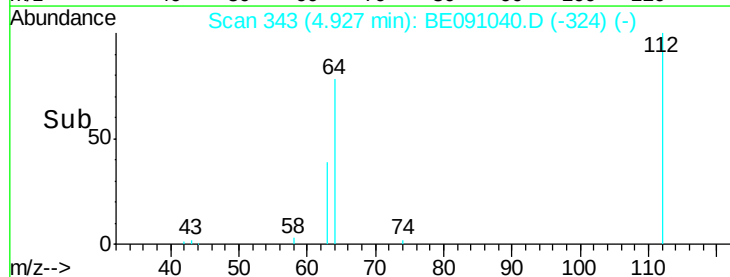
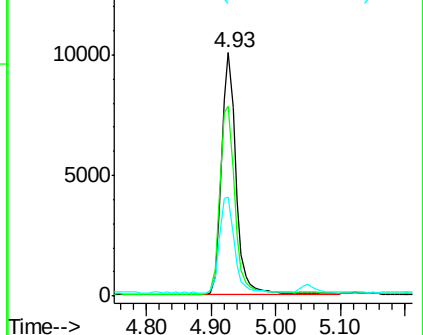
#4

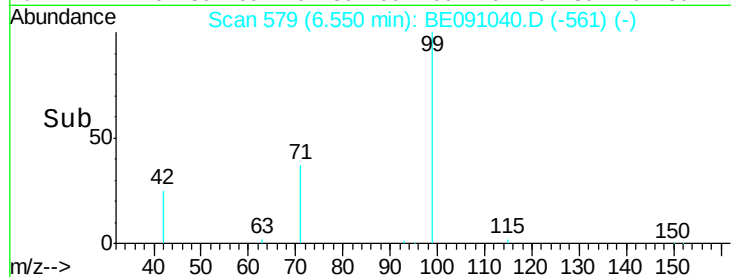
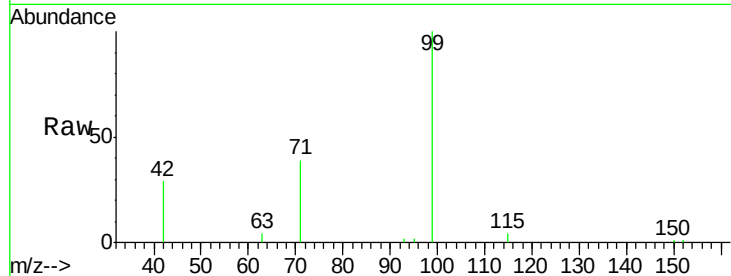
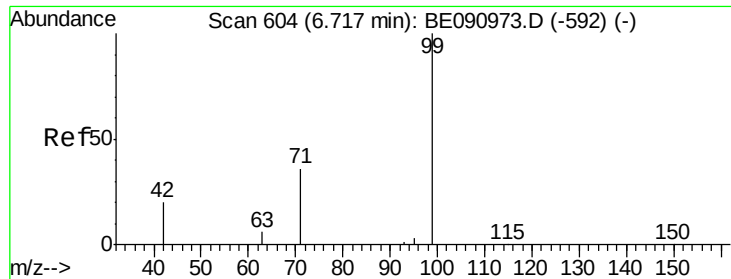
2-Fluorophenol
Concen: 4.17 ng
RT: 4.93 min Scan# 343
Delta R.T. -0.07 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

Tgt Ion: 112 Resp: 15760
Ion Ratio Lower Upper
112 100
64 79.3 30.9 46.3#
63 40.6 16.7 25.1#



Abundance Ion 112.00 (111.70 to 112.70): BE0
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 2.97 ng

RT: 6.55 min Scan# 579

Delta R.T. -0.07 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

Instrument :

BNA_E

ClientSampleId :

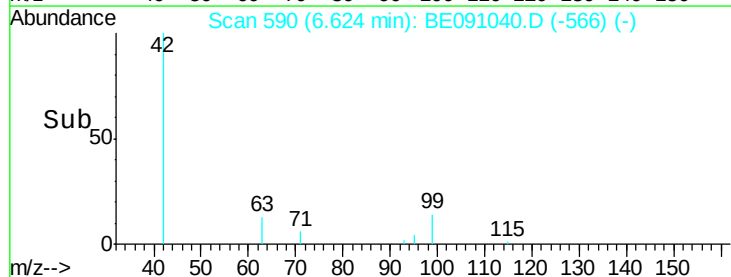
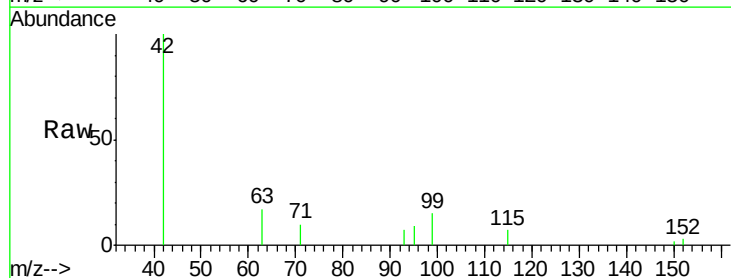
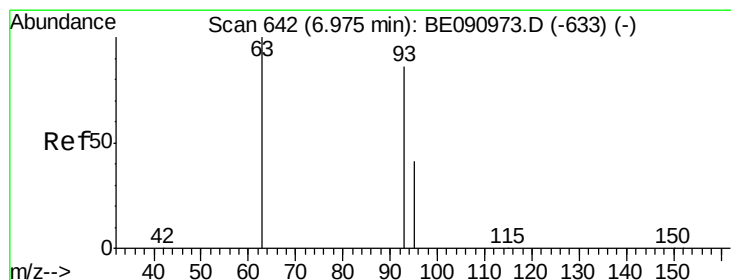
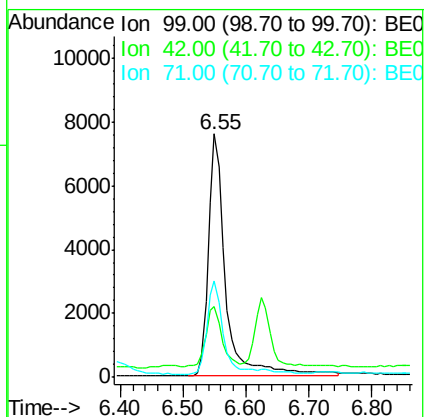
Tot Ion: 99 Resp: 14318

Ion Ratio Lower Upper

99 100

42 23.6 16.2 24.2

71 38.3 29.0 43.4



#6

bis(2-Chloroethyl)ether

Concen: 0.06 ng

RT: 6.62 min Scan# 590

Delta R.T. -0.03 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

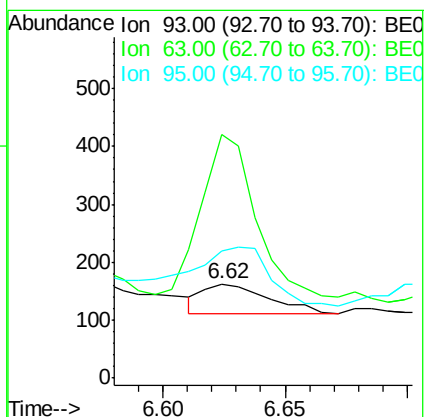
Tgt Ion: 93 Resp: 95

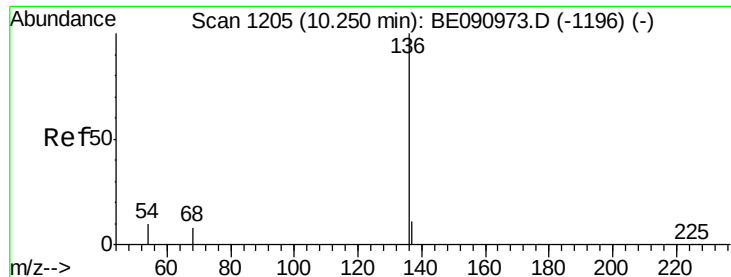
Ion Ratio Lower Upper

93 100

63 460.0 49.5 74.3#

95 234.7 22.2 33.4#





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 9.58 min Scan# 1153

Delta R.T. -0.06 min

Lab File: BE091040.D

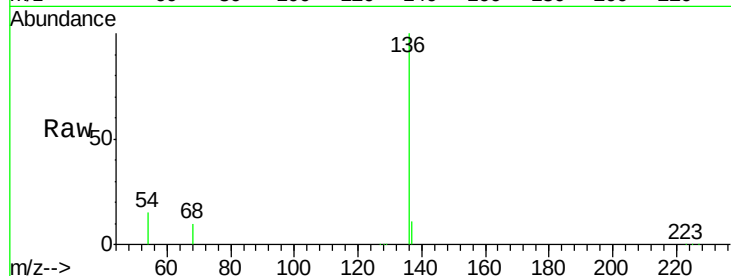
Acq: 23 Oct 2015 19:09

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136	Resp:	95542
Ion Ratio	Lower	Upper
136	100	
137	11.0	8.9 13.3
54	14.9	8.2 12.4#
68	9.7	6.2 9.4#

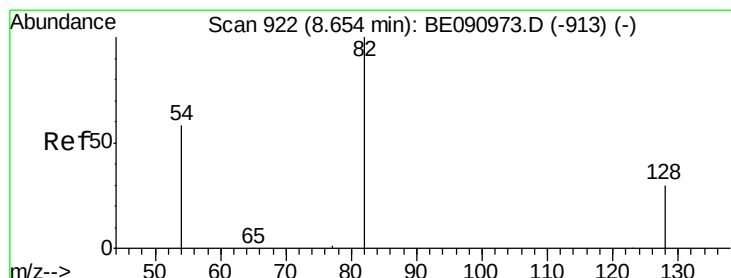
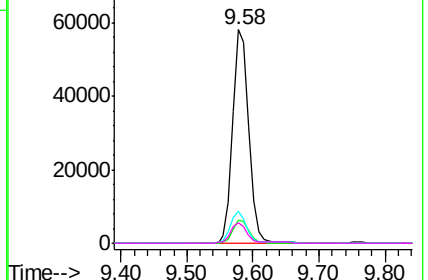
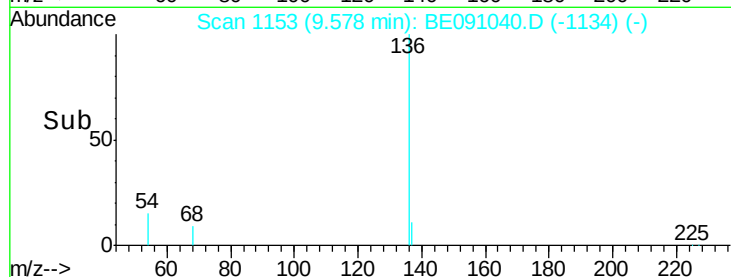


Abundance Ion 136.00 (135.70 to 136.70): E

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



#8

Nitrobenzene-d5

Concen: 5.16 ng

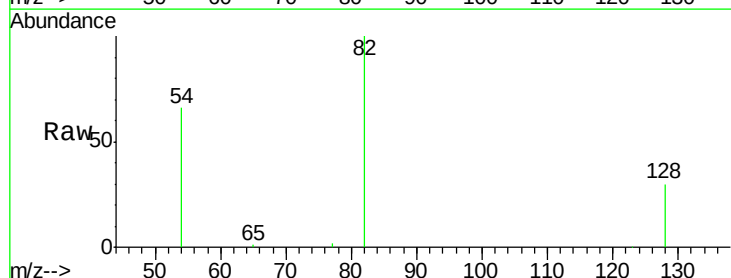
RT: 8.16 min Scan# 861

Delta R.T. -0.07 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

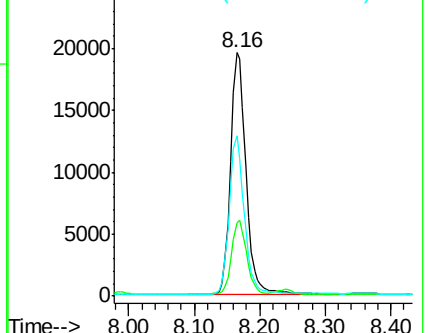
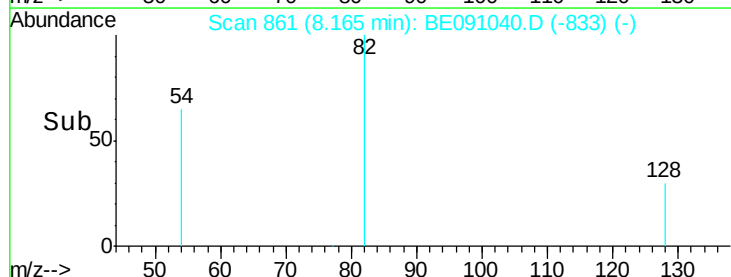
Tgt Ion: 82	Resp:	32536
Ion Ratio	Lower	Upper
82	100	
128	29.9	25.4 38.0
54	65.7	48.4 72.6

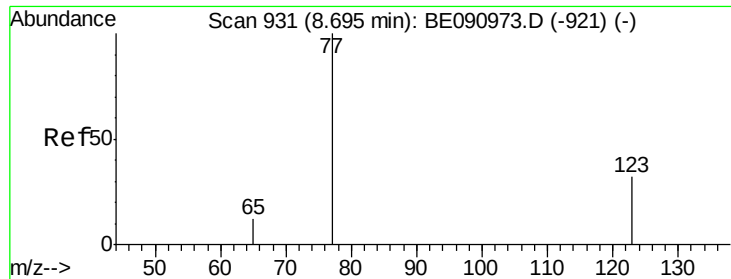


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Nitrobenzene

Concen: 0.47 ng

RT: 8.23 min Scan# 876

Delta R.T. -0.04 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

Instrument :

BNA_E

ClientSampleId :

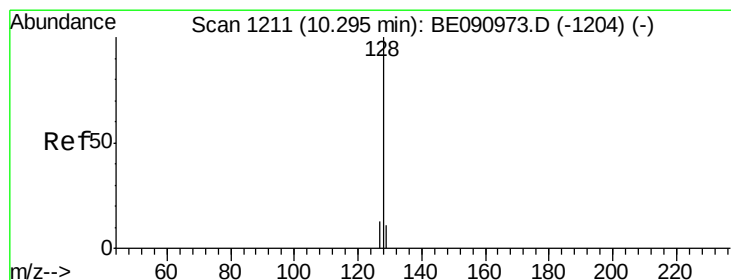
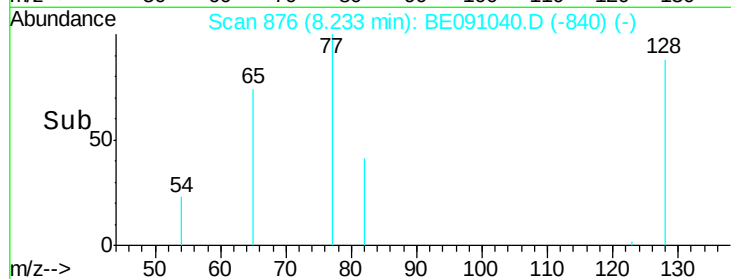
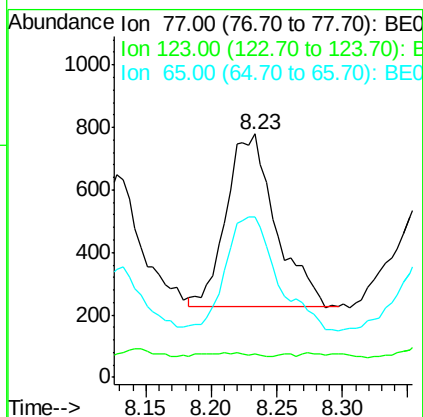
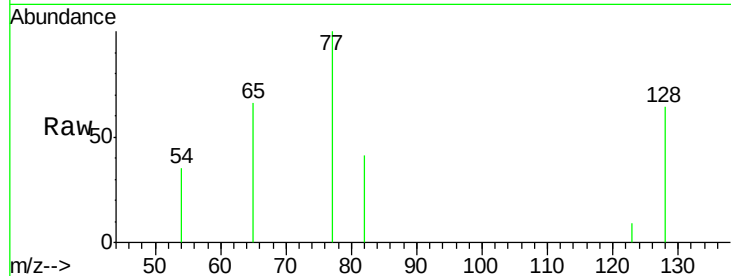
Tot Ion: 77 Resp: 1431

Ion Ratio Lower Upper

77 100

123 2.2 26.9 40.3#

65 70.0 9.4 14.2#



#10

Naphthalene

Concen: 0.67 ng

RT: 9.62 min Scan# 1159

Delta R.T. -0.06 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

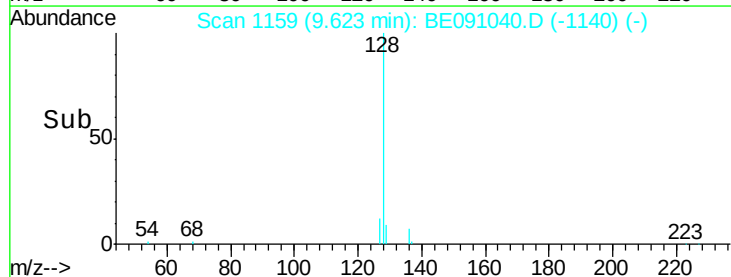
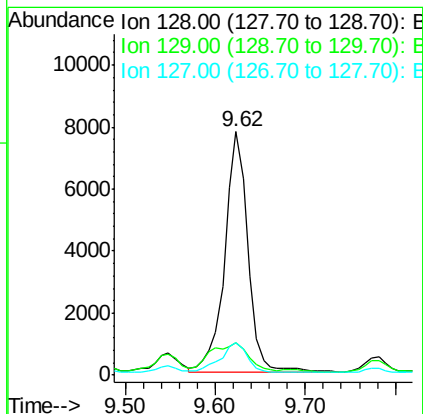
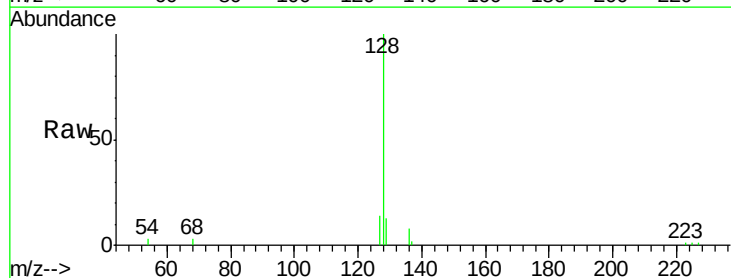
Tgt Ion: 128 Resp: 13713

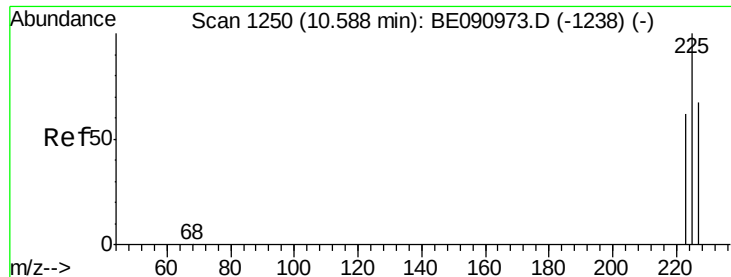
Ion Ratio Lower Upper

128 100

129 13.4 9.3 13.9

127 13.5 10.7 16.1





#11

Hexachlorobutadiene

Concen: Below Cal

RT: 9.80 min Scan# 1182

Delta R.T. -0.11 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

Instrument :

BNA_E

ClientSampleId :

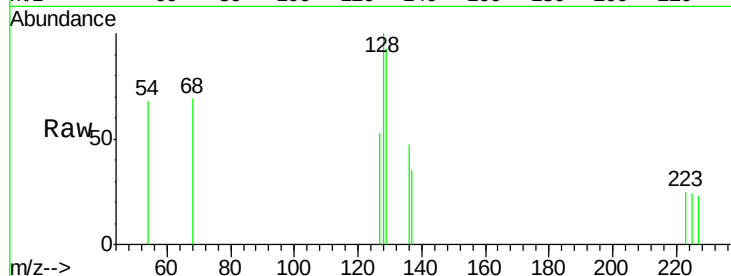
Tot Ion:225 Resp: 8

Ion Ratio Lower Upper

225 100

223 50.0 49.0 73.6

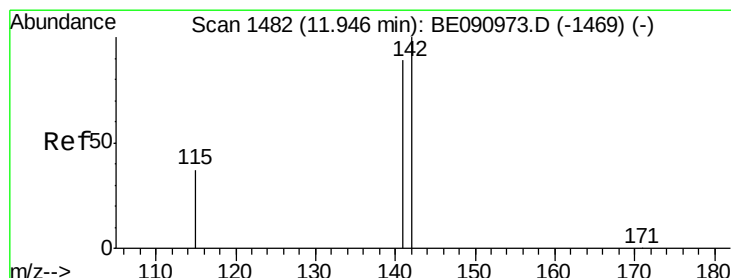
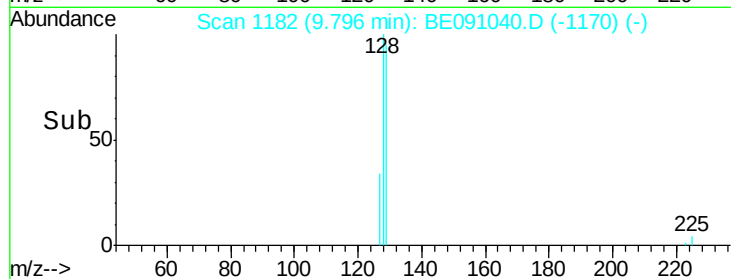
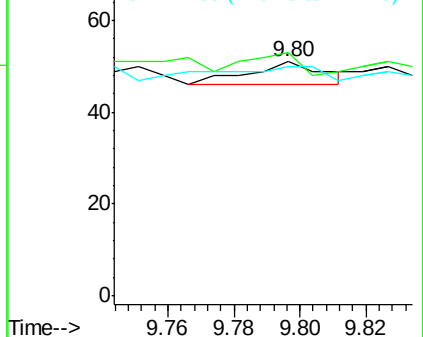
227 75.0 50.3 75.5



Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E



#12

2-Methylnaphthalene

Concen: 0.45 ng

RT: 11.15 min Scan# 1414

Delta R.T. -0.06 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

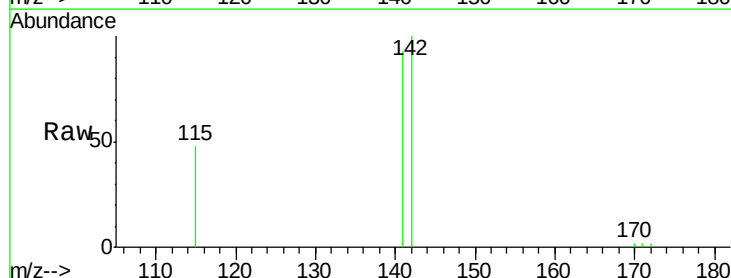
Tgt Ion:142 Resp: 5472

Ion Ratio Lower Upper

142 100

141 93.0 71.4 107.0

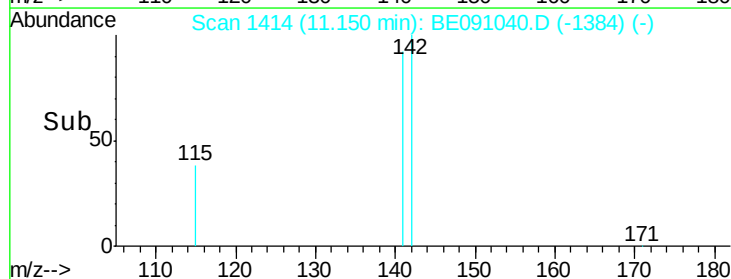
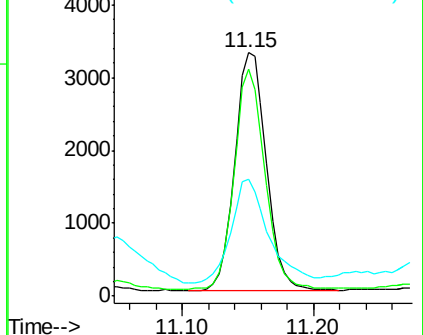
115 48.1 30.3 45.5#

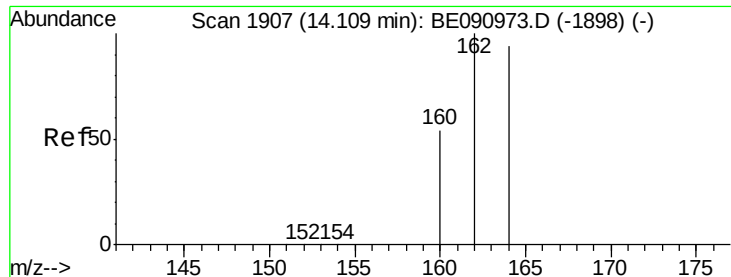


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.05 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

Instrument :

BNA_E

ClientSampled :

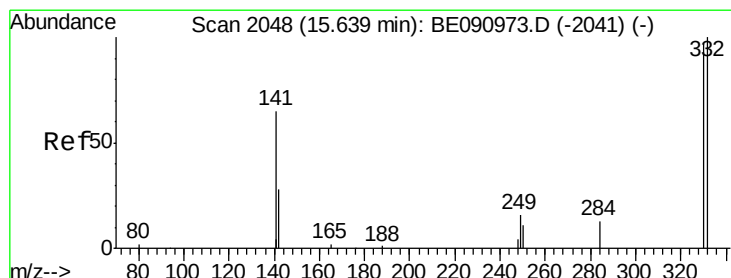
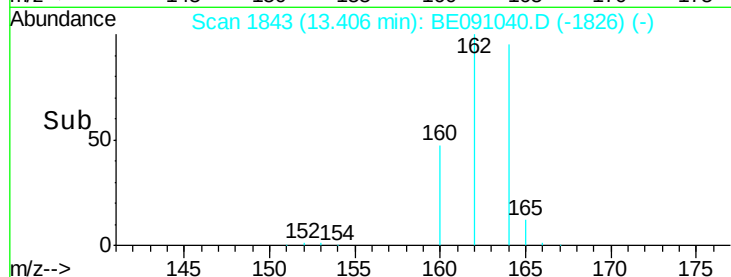
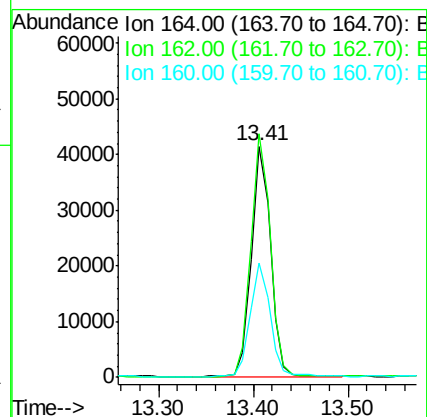
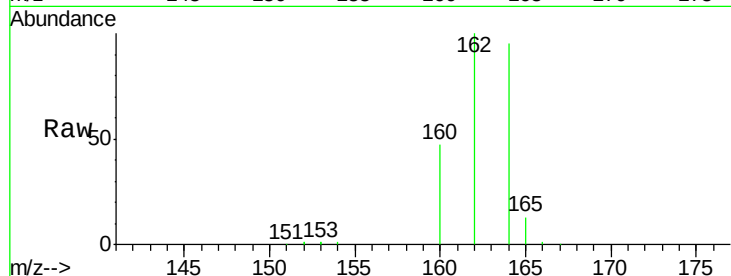
Tot Ion:164 Resp: 58591

Ion Ratio Lower Upper

164 100

162 105.4 85.3 127.9

160 49.8 46.2 69.2



#14

2,4,6-Tribromophenol

Concen: 8.61 ng

RT: 14.93 min Scan# 2006

Delta R.T. -0.05 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

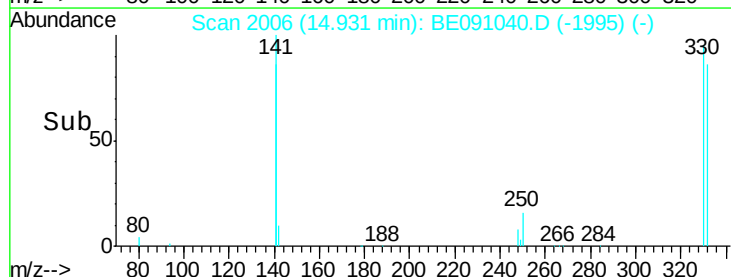
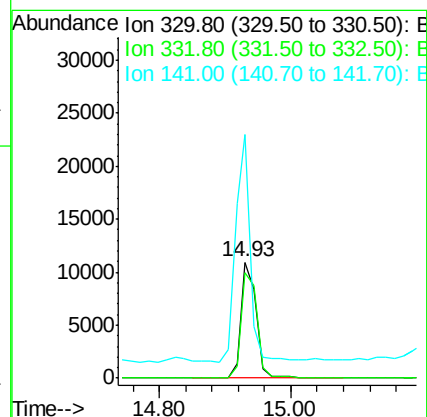
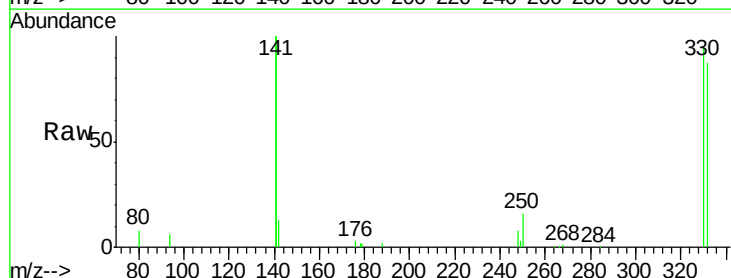
Tgt Ion:330 Resp: 17511

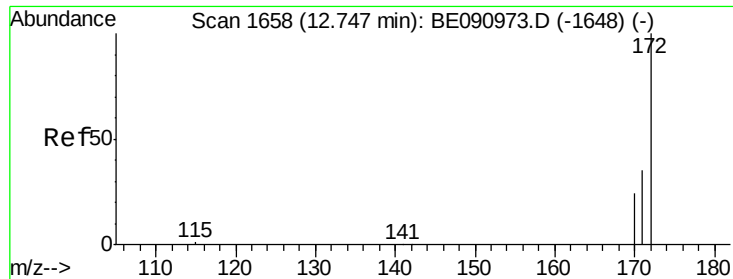
Ion Ratio Lower Upper

330 100

332 96.4 79.1 118.7

141 191.9 125.4 188.0#

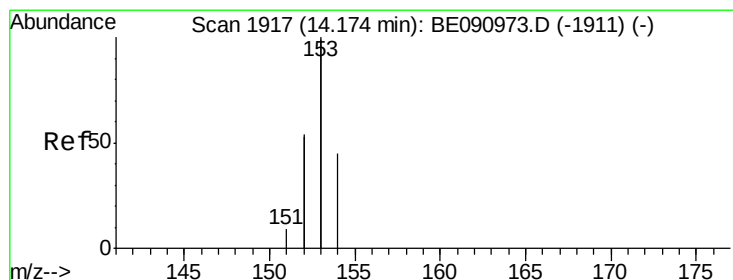
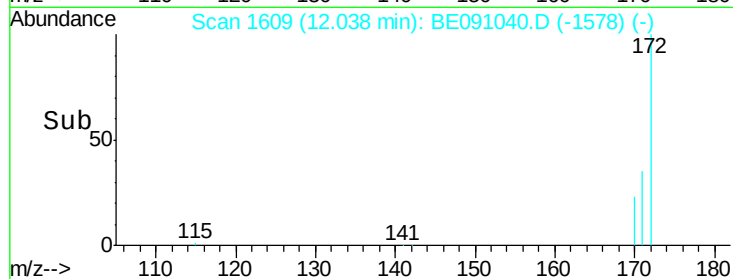
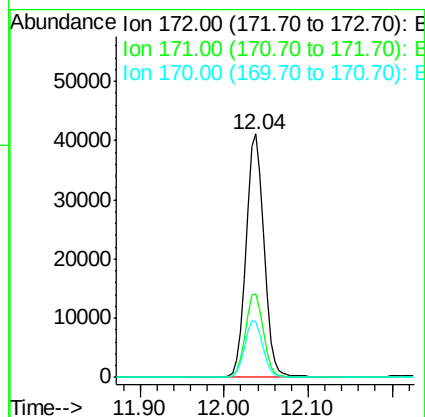
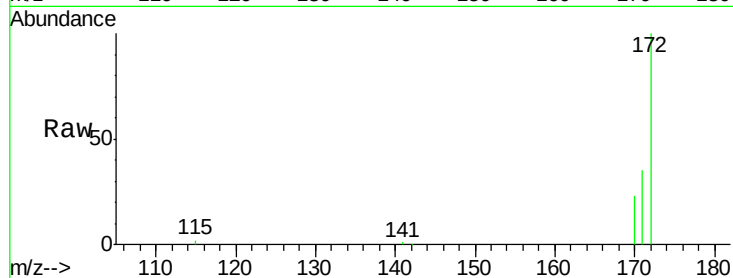




#15
2-Fluorobiphenyl
Concen: 3.81 ng
RT: 12.04 min Scan# 1609
Delta R.T. -0.06 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

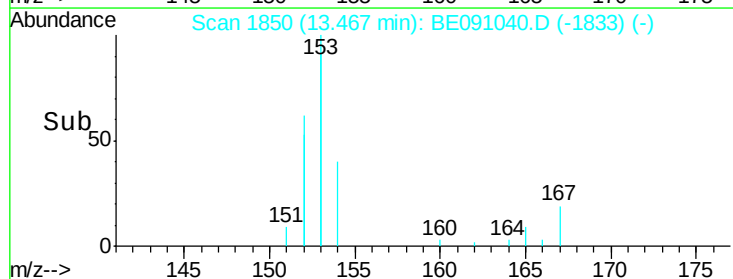
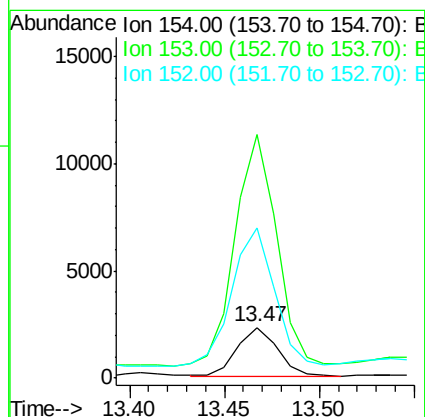
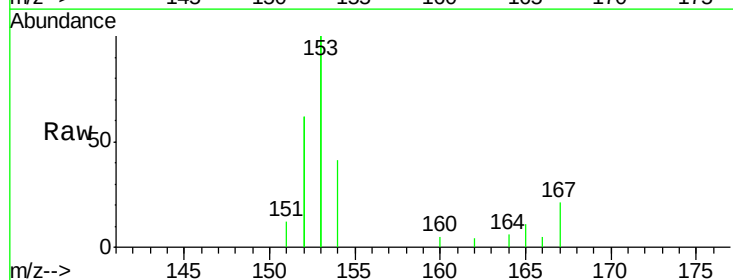
Instrument :
BNA_E
ClientSampleId :

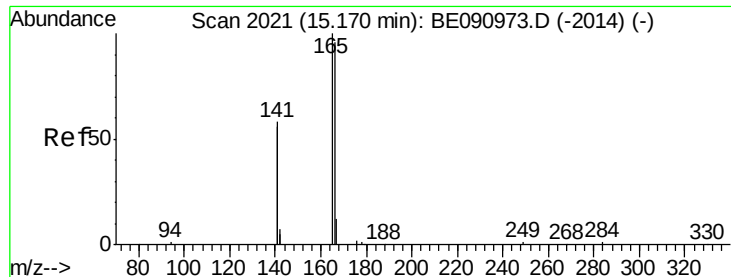
Tot Ion:172 Resp: 60460
Ion Ratio Lower Upper
172 100
171 34.6 28.8 43.2
170 23.0 19.3 28.9



#17
Acenaphthene
Concen: 0.21 ng
RT: 13.47 min Scan# 1850
Delta R.T. -0.05 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

Tgt Ion:154 Resp: 3359
Ion Ratio Lower Upper
154 100
153 490.7 352.0 528.0
152 304.5 200.0 300.0#

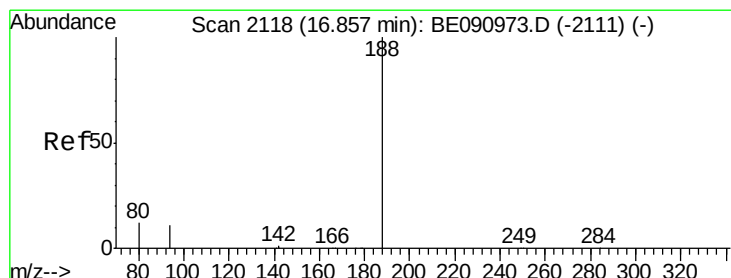
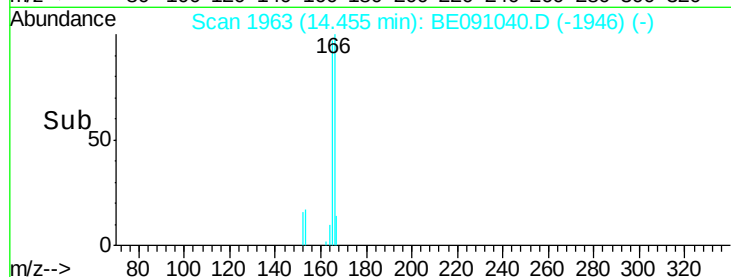
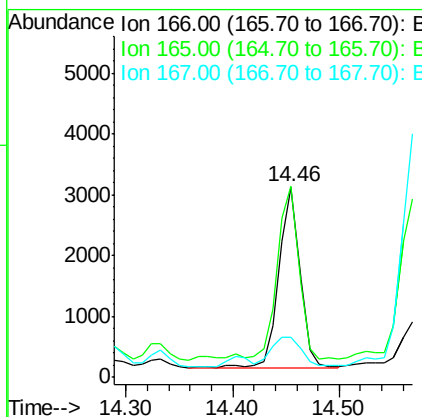
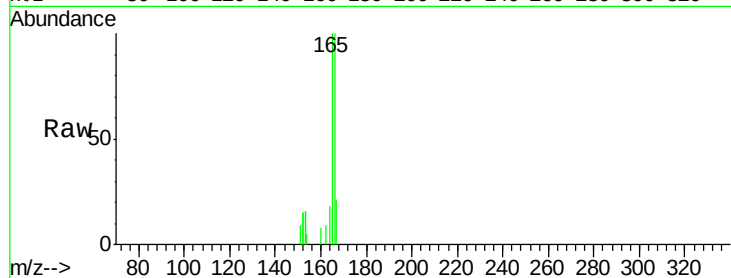




#18
 Fluorene
 Concen: 0.21 ng
 RT: 14.46 min Scan# 1963
 Delta R.T. -0.05 min
 Lab File: BE091040.D
 Acq: 23 Oct 2015 19:09

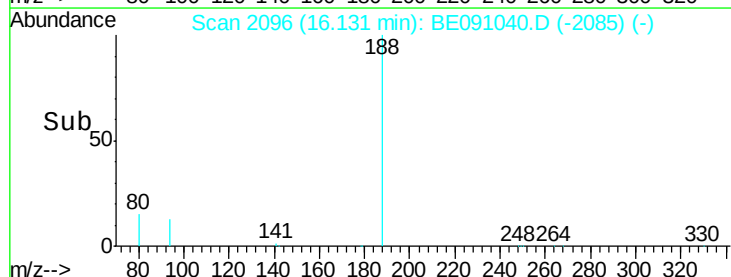
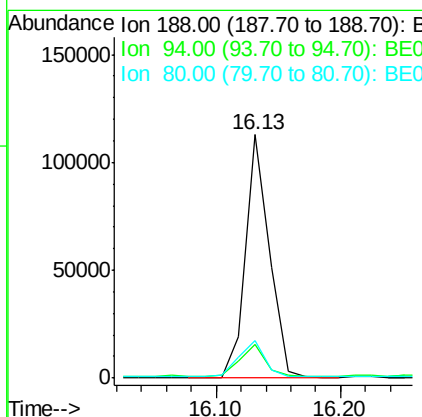
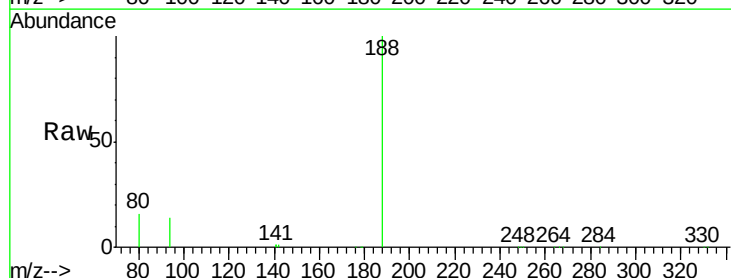
Instrument :
 BNA_E
 ClientSampleId :

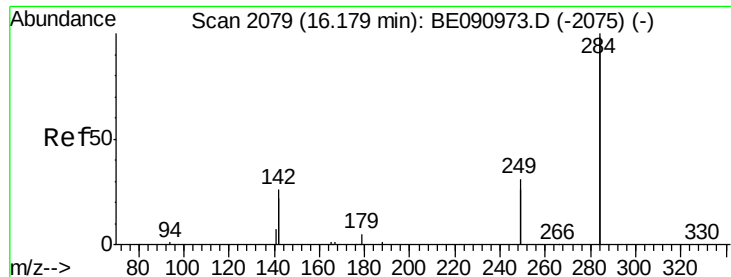
Tot Ion:166 Resp: 4105
 Ion Ratio Lower Upper
 166 100
 165 97.4 80.8 121.2
 167 21.6 10.9 16.3#



#19
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 16.13 min Scan# 2096
 Delta R.T. -0.05 min
 Lab File: BE091040.D
 Acq: 23 Oct 2015 19:09

Tgt Ion:188 Resp: 149816
 Ion Ratio Lower Upper
 188 100
 94 14.0 8.7 13.1#
 80 15.6 9.4 14.0#

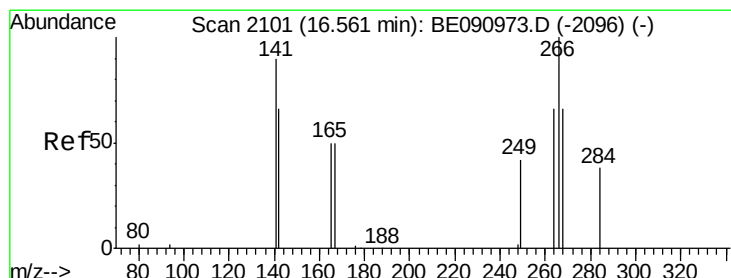
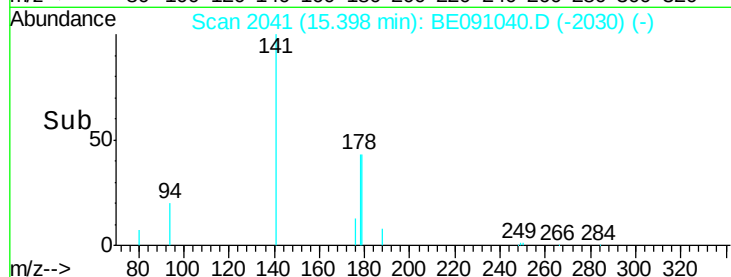
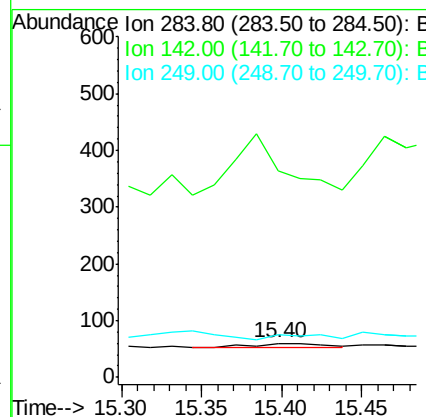
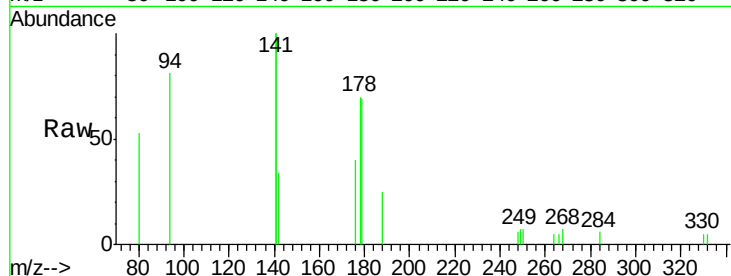




#21
Hexachlorobenzene
Concen: Below Cal
RT: 15.40 min Scan# 2041
Delta R.T. -0.05 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

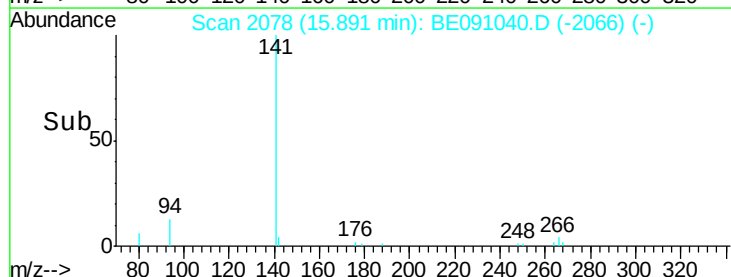
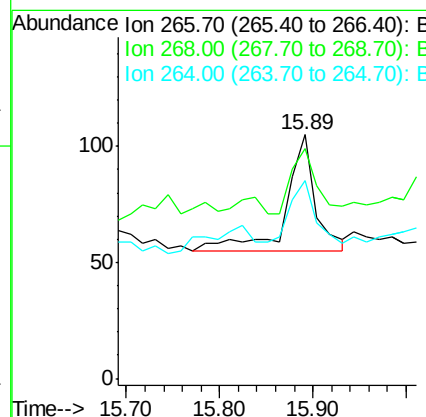
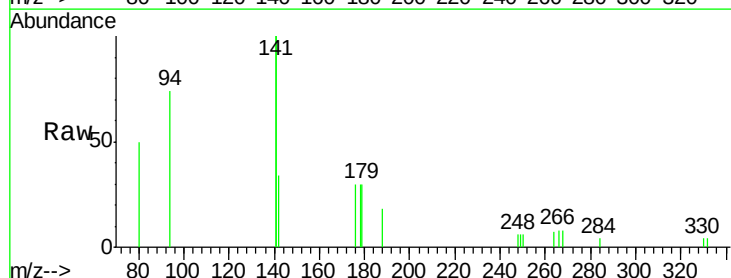
Instrument :
BNA_E
ClientSampleId :

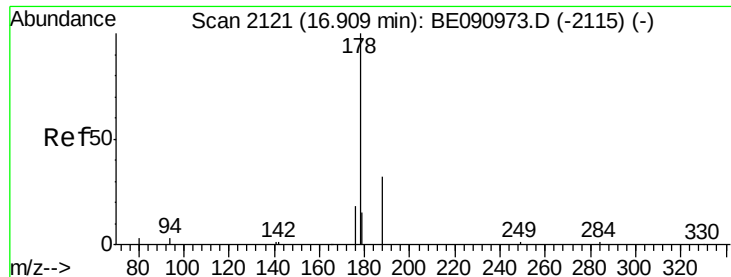
Tot Ion:284 Resp: 18
Ion Ratio Lower Upper
284 100
142 1488.9 32.2 48.2#
249 0.0 25.4 38.2#



#22
Pentachlorophenol
Concen: 0.07 ng
RT: 15.89 min Scan# 2078
Delta R.T. -0.04 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

Tgt Ion:266 Resp: 110
Ion Ratio Lower Upper
266 100
268 94.3 58.2 87.2#
264 81.0 56.2 84.4





#23

Phenanthrene

Concen: 0.06 ng

RT: 16.17 min Scan# 2099

Delta R.T. -0.05 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

Instrument :

BNA_E

ClientSampleId :

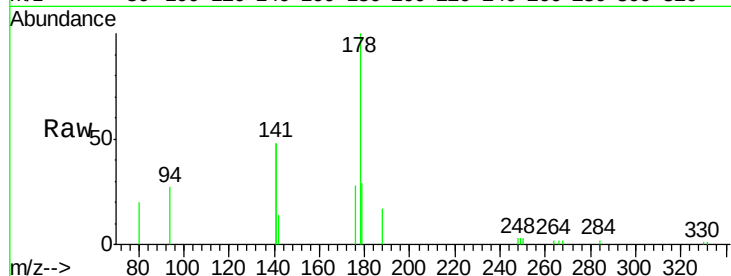
Tot Ion:178 Resp: 4262

Ion Ratio Lower Upper

178 100

176 23.1 15.3 22.9#

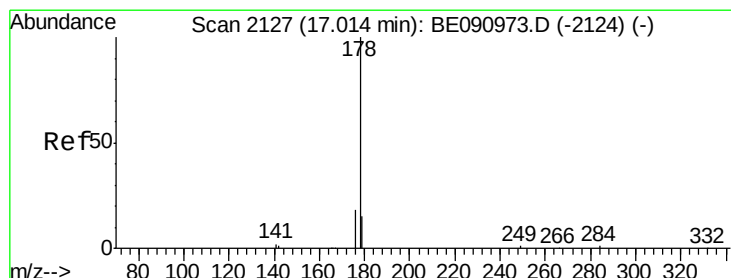
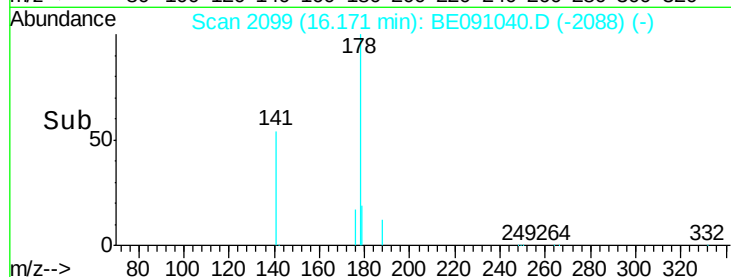
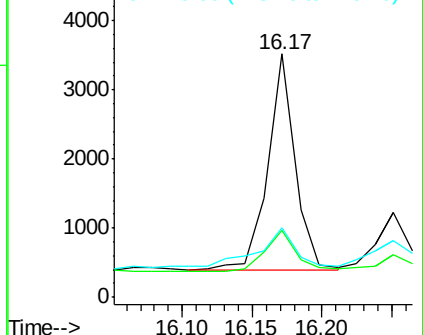
179 26.5 12.6 18.8#



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

Anthracene

Concen: 0.05 ng

RT: 16.25 min Scan# 2105

Delta R.T. -0.05 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

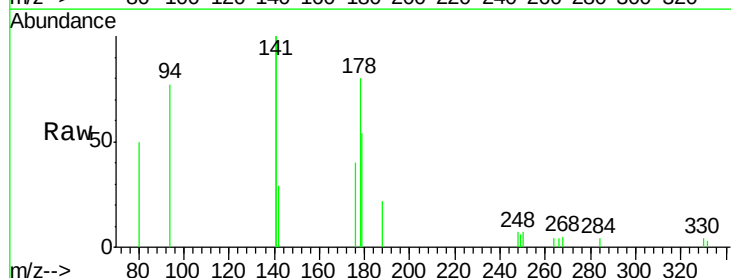
Tgt Ion:178 Resp: 1251

Ion Ratio Lower Upper

178 100

176 55.5 14.6 21.8#

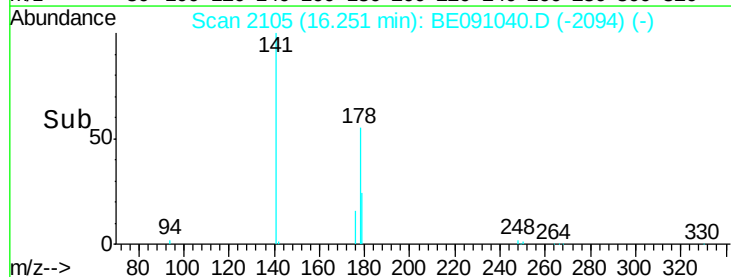
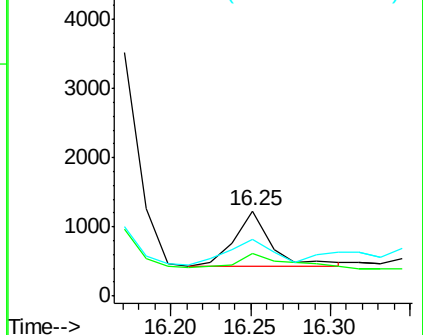
179 60.3 11.8 17.6#

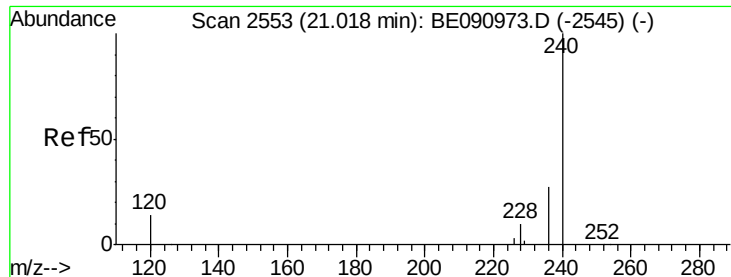


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

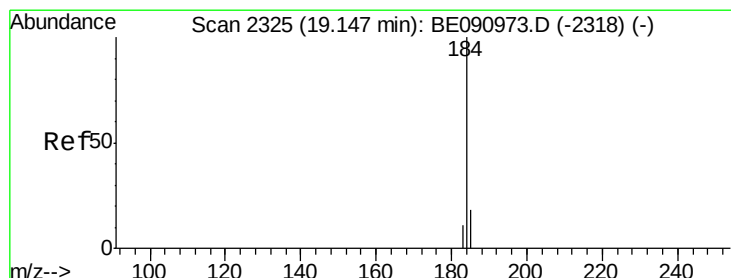
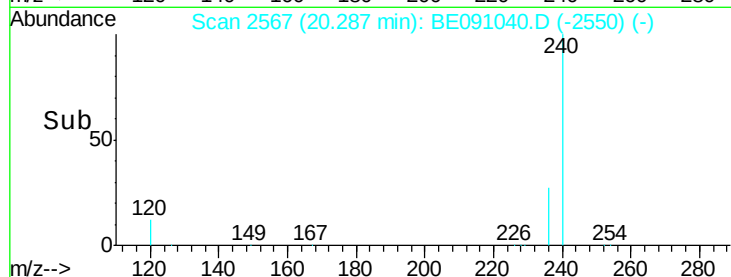
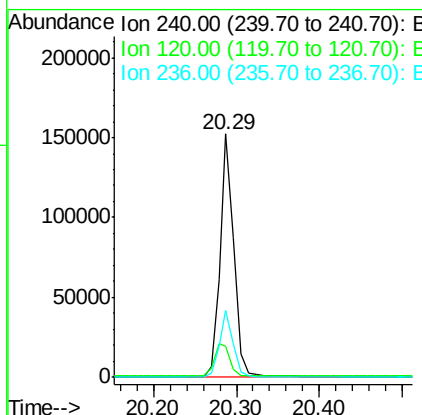
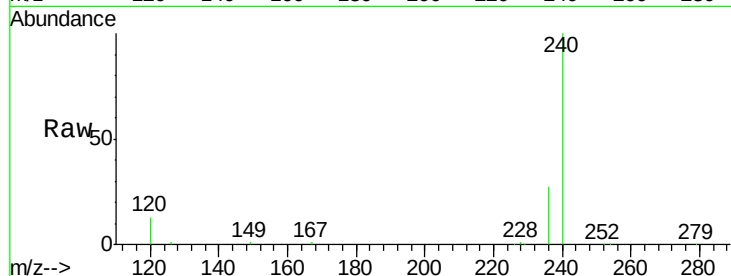




#26
 Chrysene-d12
 Concen: 5.00 ng
 RT: 20.29 min Scan# 2567
 Delta R.T. -0.04 min
 Lab File: BE091040.D
 Acq: 23 Oct 2015 19:09

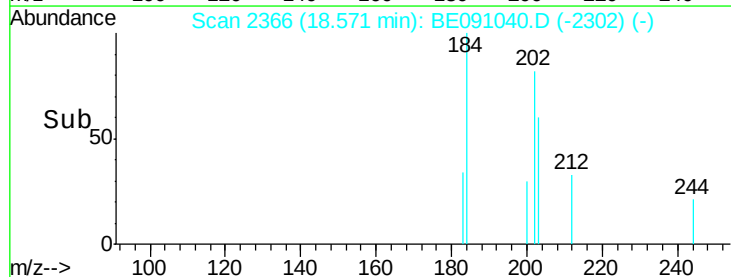
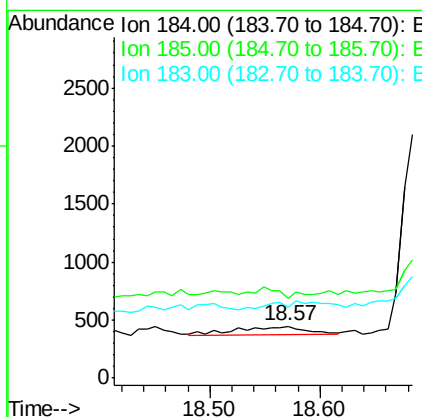
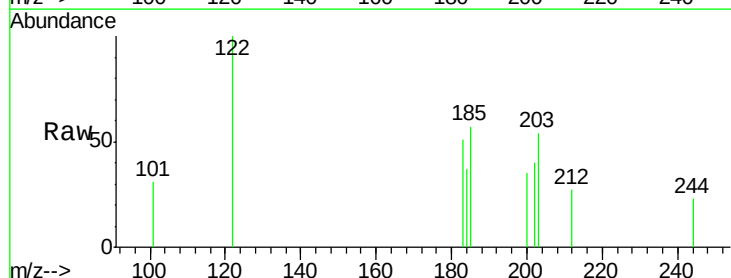
Instrument :
 BNA_E
 ClientSampleId :

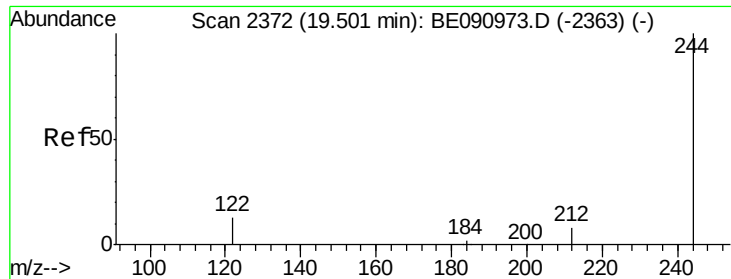
Tot Ion:240 Resp: 177872
 Ion Ratio Lower Upper
 240 100
 120 12.5 11.0 16.4
 236 27.3 21.7 32.5



#27
 Benzidine
 Concen: Below Cal
 RT: 18.57 min Scan# 2366
 Delta R.T. -0.02 min
 Lab File: BE091040.D
 Acq: 23 Oct 2015 19:09

Tgt Ion:184 Resp: 302
 Ion Ratio Lower Upper
 184 100
 185 152.9 22.3 33.5#
 183 135.8 16.4 24.6#





#29

Terphenyl-d14

Concen: 4.70 ng

RT: 18.68 min Scan# 2381

Delta R.T. -0.05 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

Instrument :

BNA_E

ClientSampleId :

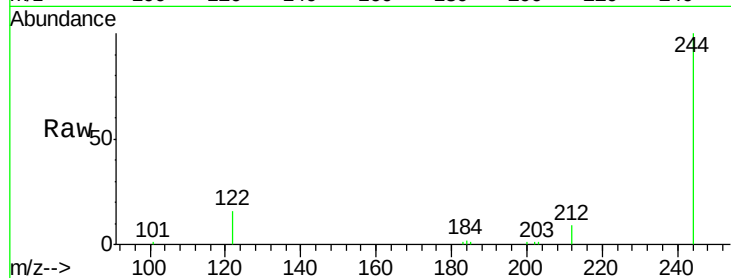
Tot Ion:244 Resp: 103096

Ion Ratio Lower Upper

244 100

212 8.9 6.9 10.3

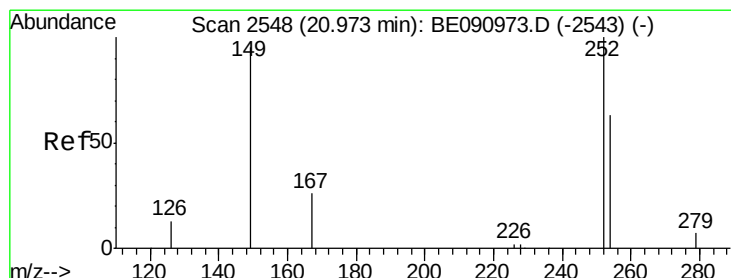
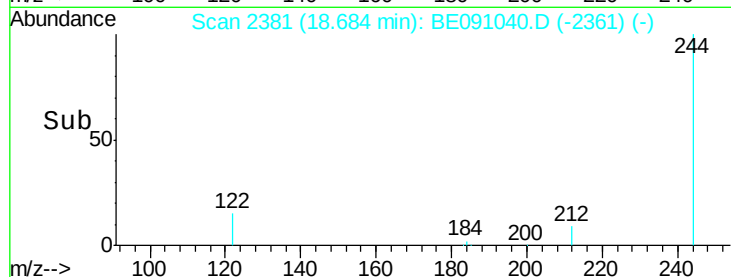
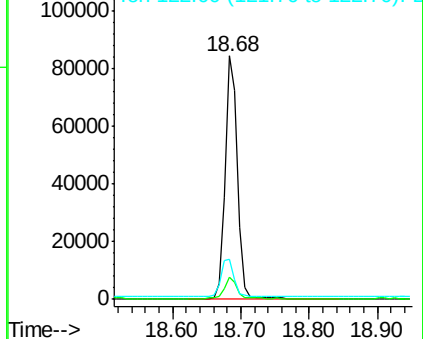
122 16.5 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#31

3,3'-Dichlorobenzidine

Concen: 0.04 ng

RT: 20.83 min Scan# 2627

Delta R.T. -0.01 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

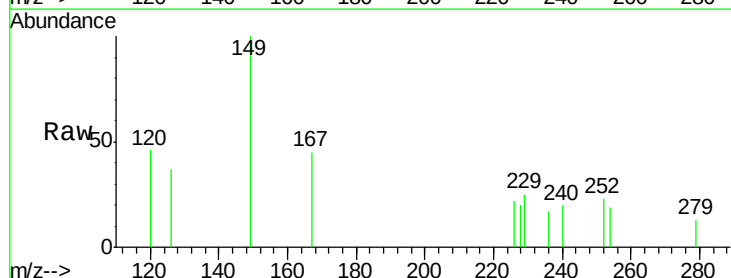
Tgt Ion:252 Resp: 83

Ion Ratio Lower Upper

252 100

254 81.9 51.1 76.7#

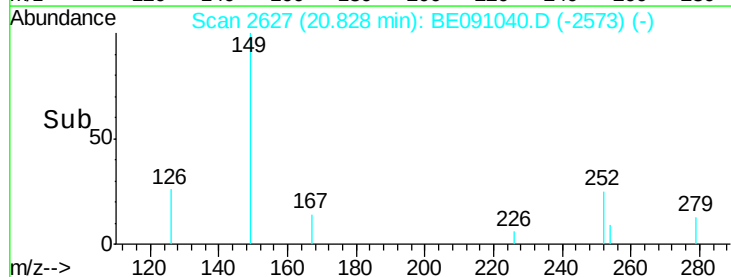
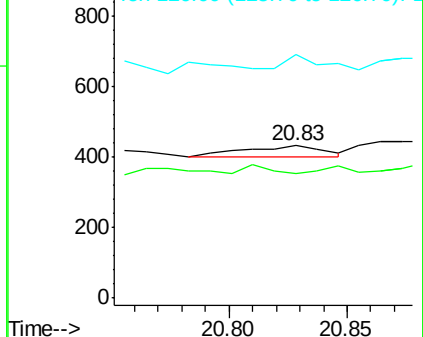
126 159.5 12.6 18.8#

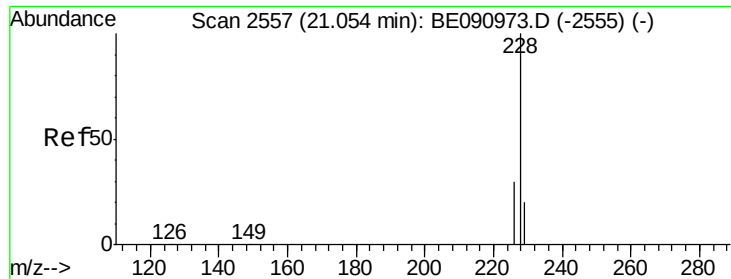


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E

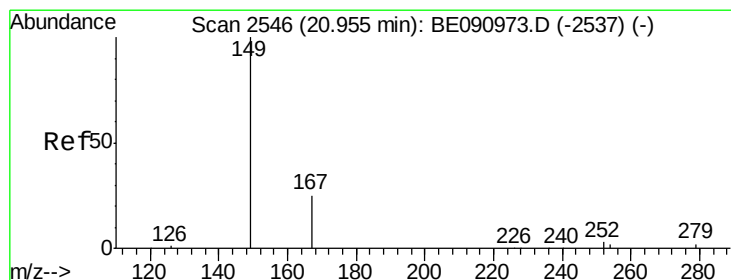
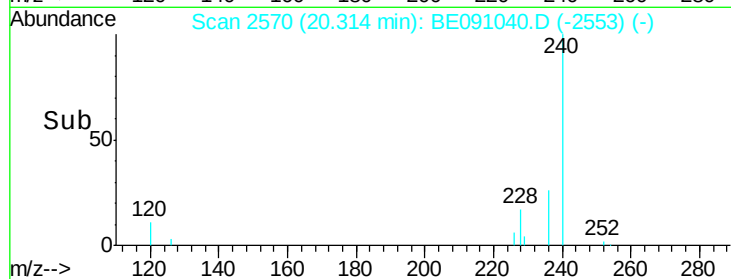
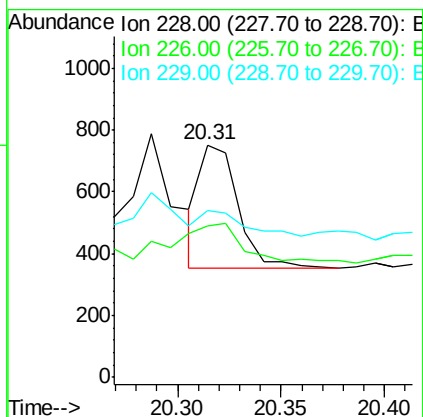
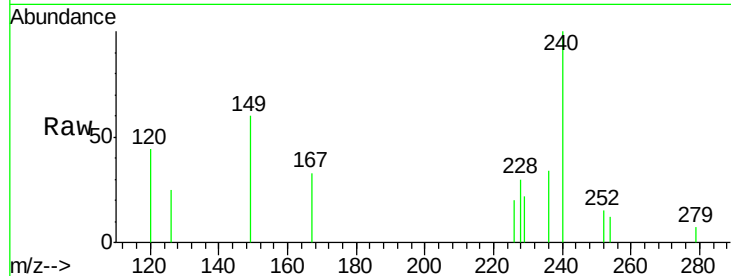




#32
Chrysene
Concen: Below Cal
RT: 20.31 min Scan# 2570
Delta R.T. -0.04 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

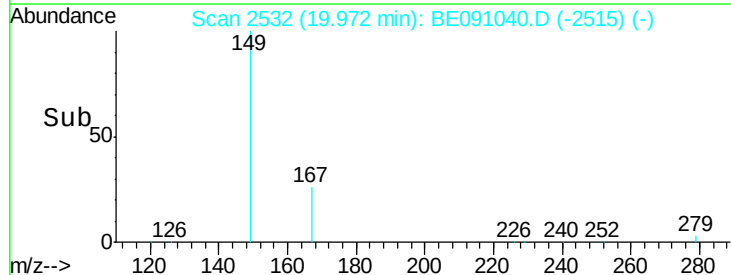
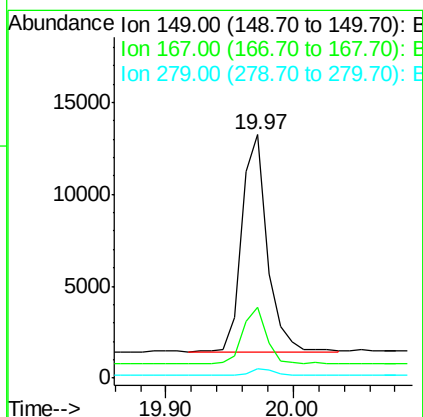
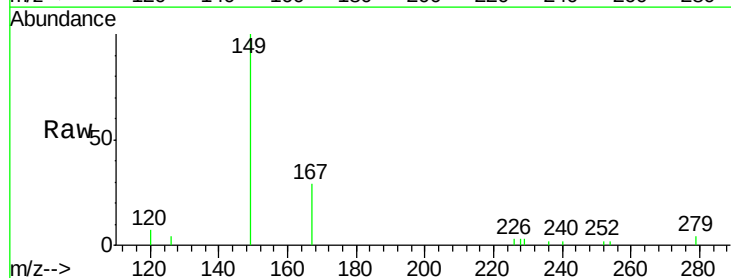
Instrument :
BNA_E
ClientSampled :

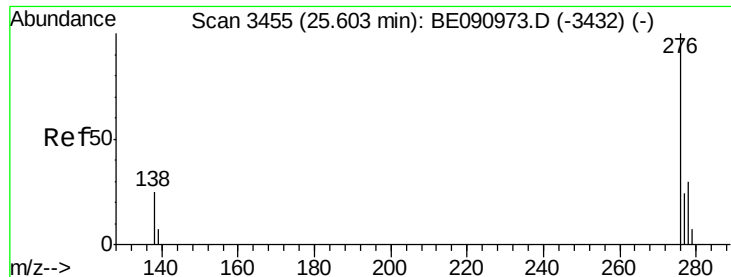
Tot Ion:228 Resp: 511
Ion Ratio Lower Upper
228 100
226 65.1 24.0 36.0#
229 71.8 15.9 23.9#



#33
Bis(2-ethylhexyl)phthalate
Concen: 1.22 ng
RT: 19.97 min Scan# 2532
Delta R.T. -0.04 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

Tgt Ion:149 Resp: 16231
Ion Ratio Lower Upper
149 100
167 25.7 19.5 29.3
279 2.9 2.3 3.5

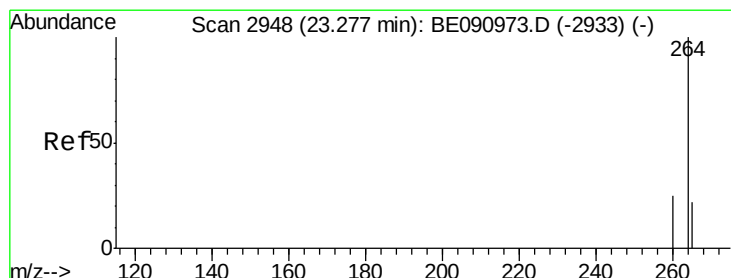
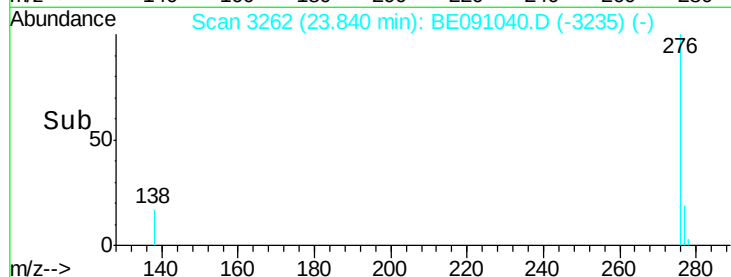
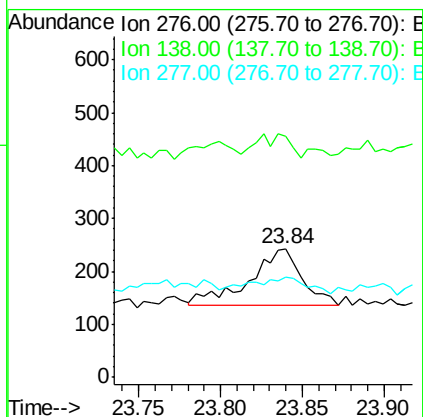
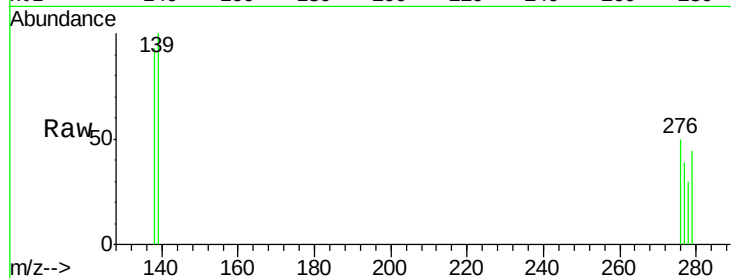




#34
Indeno(1,2,3-cd)pyrene
Concen: 0.12 ng
RT: 23.84 min Scan# 3262
Delta R.T. -0.08 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

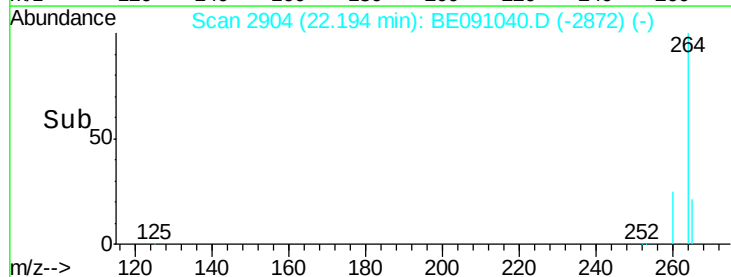
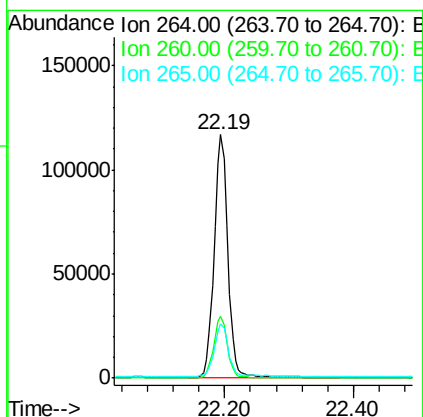
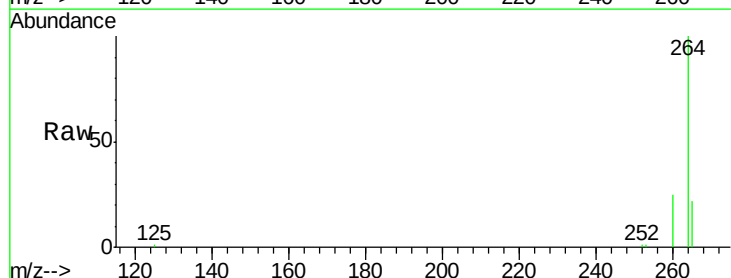
Instrument :
BNA_E
ClientSampleId :

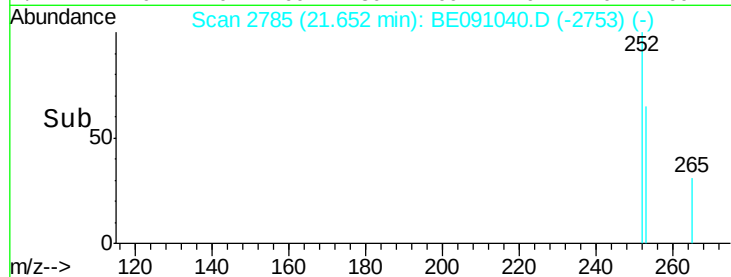
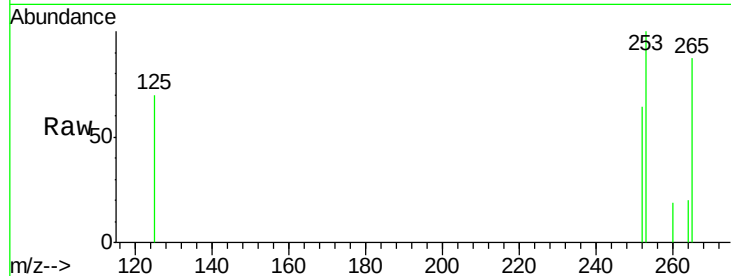
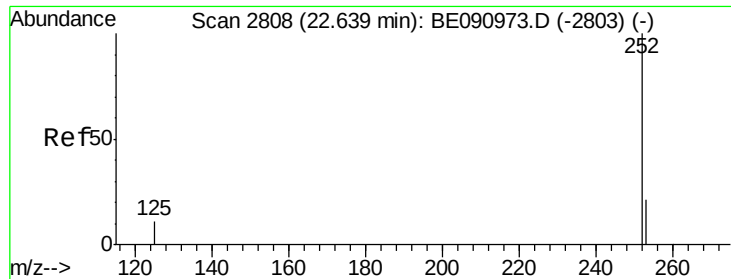
Tot Ion:276 Resp: 238
Ion Ratio Lower Upper
276 100
138 6.3 23.4 35.2#
277 18.1 19.8 29.8#



#35
Perylene-d12
Concen: 5.00 ng
RT: 22.19 min Scan# 2904
Delta R.T. -0.05 min
Lab File: BE091040.D
Acq: 23 Oct 2015 19:09

Tgt Ion:264 Resp: 173565
Ion Ratio Lower Upper
264 100
260 25.2 20.0 30.0
265 22.3 17.5 26.3





#37

Benzo(k)fluoranthene

Concen: Below Cal

RT: 21.65 min Scan# 2785

Delta R.T. -0.05 min

Lab File: BE091040.D

Acq: 23 Oct 2015 19:09

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 252 Resp: 248

Ion Ratio Lower Upper

252 100

253 156.9 17.6 26.4#

125 109.1 9.9 14.9#

