

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030216\
 Data File : BE091446.D
 Acq On : 3 Mar 2016 6:06
 Operator : UM/IZ
 Sample : MDL-04-S
 Misc : 0.16PPM
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 03 07:19:43 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 03 01:34:35 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	32947	5.00	ng	0.00
4) Naphthalene-d8	9.54	136	142783	5.00	ng	0.00
8) Acenaphthene-d10	13.35	164	86303	5.00	ng	0.00
13) Phenanthrene-d10	16.08	188	212931	5.00	ng	0.00
19) Chrysene-d12	20.21	240	277076	5.00	ng	0.00
25) Perylene-d12	22.09	264	292599	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	36981	4.64	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	101300	4.27	ng	-0.01
21) Terphenyl-d14	18.60	244	177974	4.47	ng	-0.01

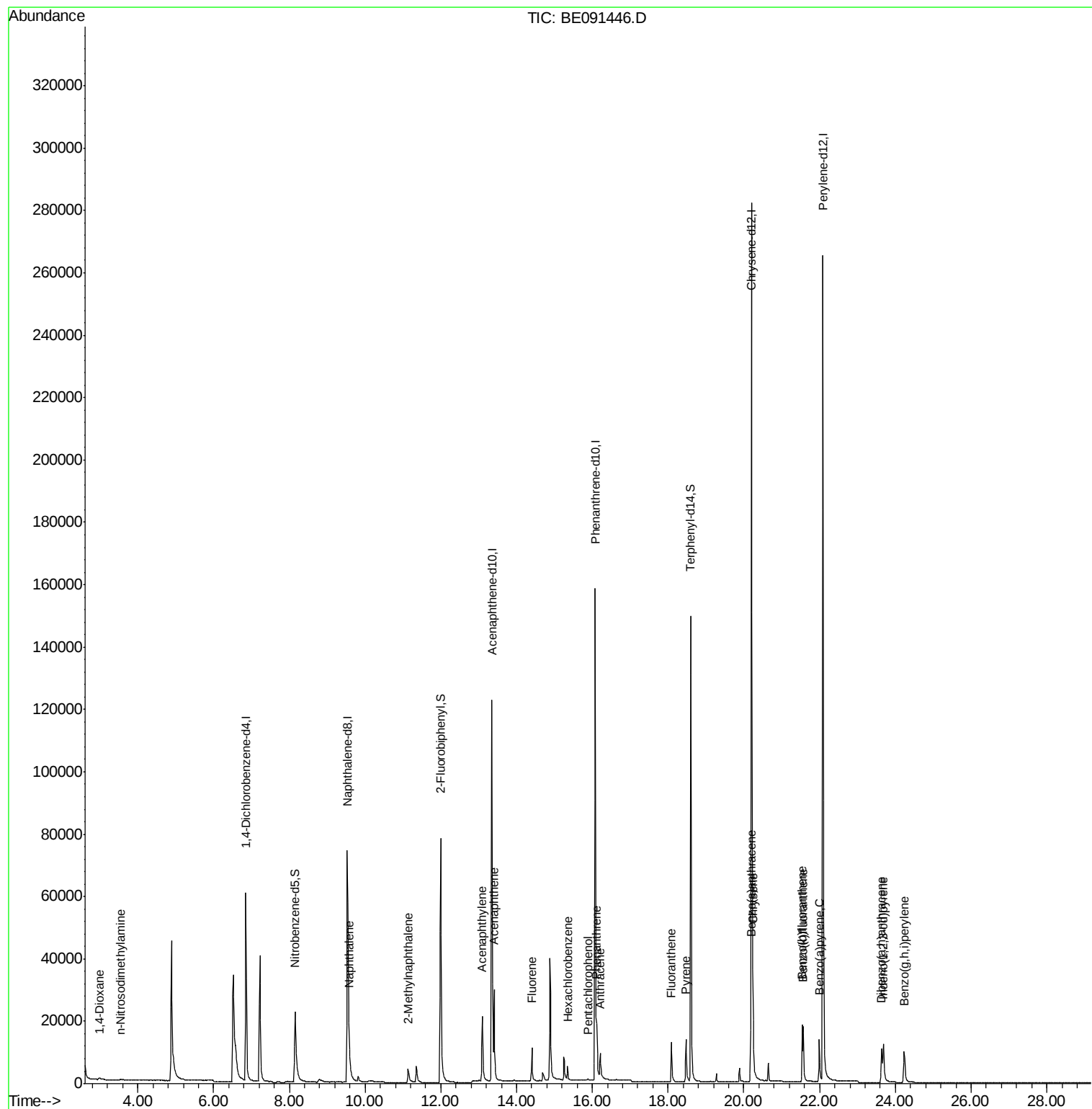
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.98	88	1070	0.32	ng	# 78
3) n-Nitrosodimethylamine	3.53	42	162	0.06	ng	# 80
6) Naphthalene	9.58	128	9245	0.26	ng	100
7) 2-Methylnaphthalene	11.14	142	5327	0.25	ng	97
10) Acenaphthylene	13.09	152	34411	0.23	ng	99
11) Acenaphthene	13.41	154	6587	0.25	ng	96
12) Fluorene	14.40	166	8536	0.24	ng	99
14) Hexachlorobenzene	15.34	284	3104	0.28	ng	99
15) Pentachlorophenol	15.89	266	428	0.25	ng	96
16) Phenanthrene	16.12	178	16482	0.26	ng	99
17) Anthracene	16.21	178	13452	0.24	ng	99
18) Fluoranthene	18.09	202	16422	0.24	ng	99
20) Pyrene	18.47	202	16939	0.25	ng	99
22) Benzo(a)anthracene	20.18	228	16233	0.23	ng	100
23) Chrysene	20.24	228	23238	0.25	ng	98
24) Indeno(1,2,3-cd)pyrene	23.69	276	18856	0.21	ng	98
26) Benzo(b)fluoranthene	21.54	252	18852	0.24	ng	99
27) Benzo(k)fluoranthene	21.57	252	21217	0.23	ng	100
28) Benzo(a)pyrene	21.99	252	17035	0.22	ng	99
29) Dibenzo(a,h)anthracene	23.64	278	17515	0.21	ng	98
30) Benzo(g,h,i)perylene	24.24	276	19666	0.21	ng	99

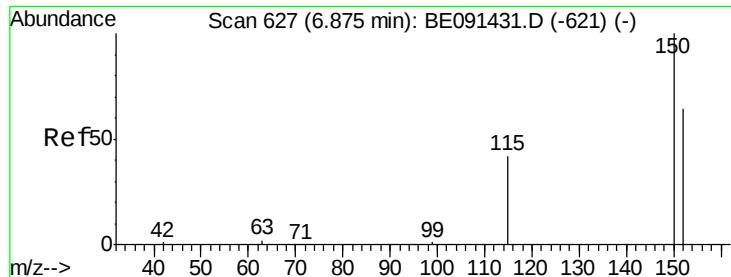
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 624

Delta R.T. -0.01 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

Instrument :

BNA_F

ClientSampleId :

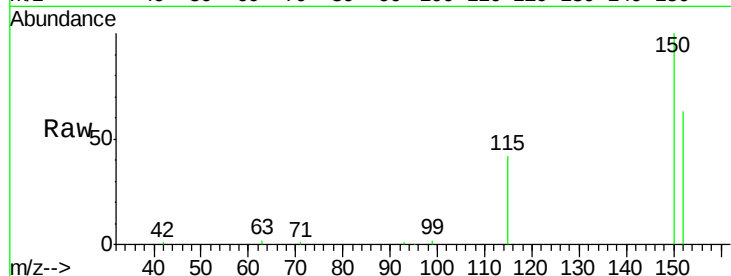
Tgt Ion: 152 Resp: 32947

Ion Ratio Lower Upper

152 100

150 158.1 122.1 183.1

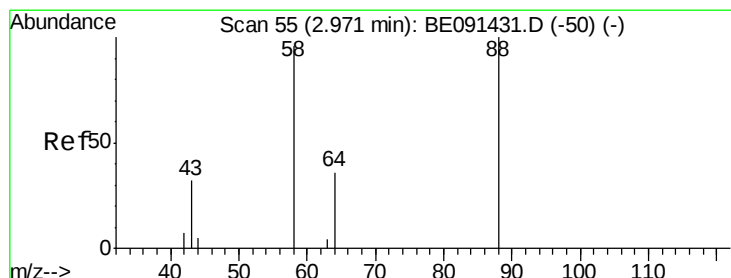
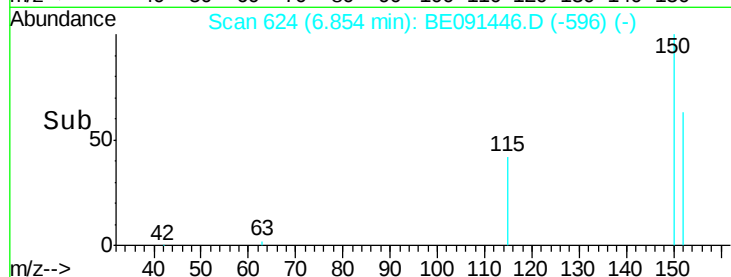
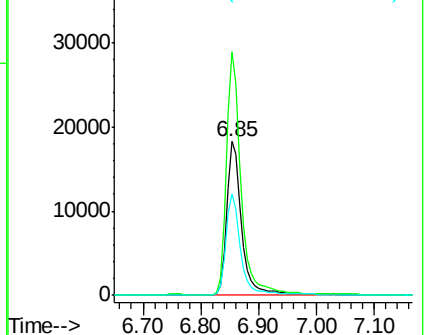
115 66.1 50.3 75.5



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



#2

1,4-Dioxane

Concen: 0.32 ng

RT: 2.98 min Scan# 56

Delta R.T. 0.01 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

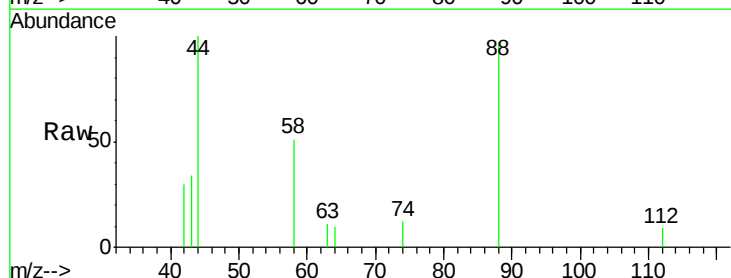
Tgt Ion: 88 Resp: 1070

Ion Ratio Lower Upper

88 100

58 87.7 88.8 133.2#

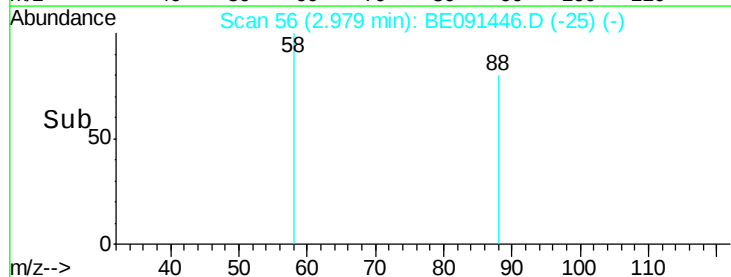
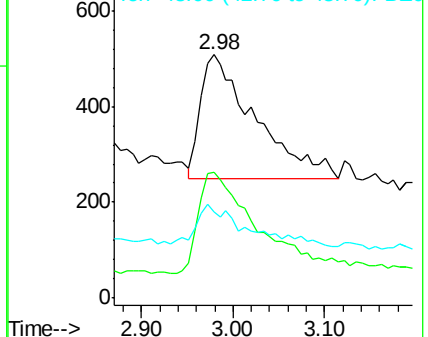
43 23.8 30.2 45.4#

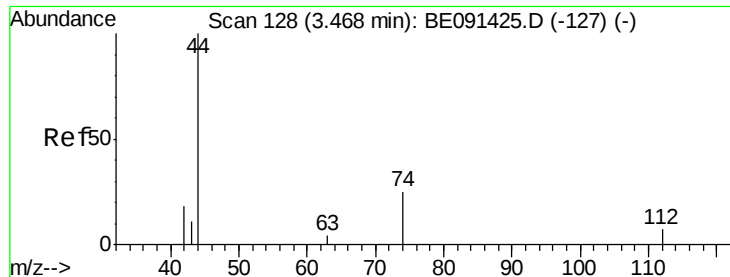


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



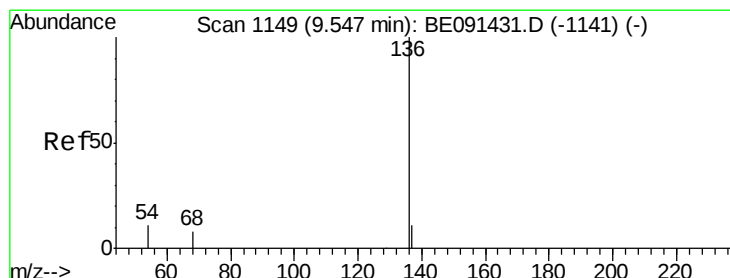
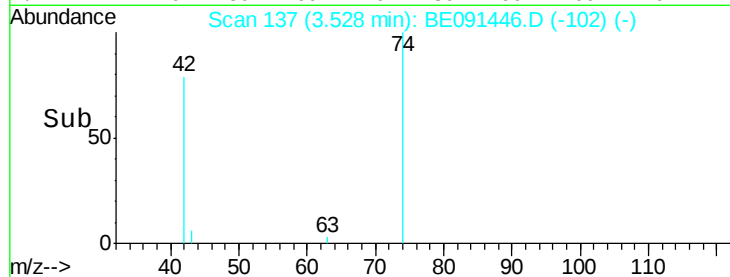
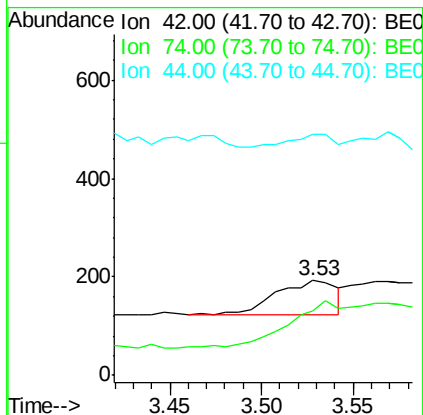
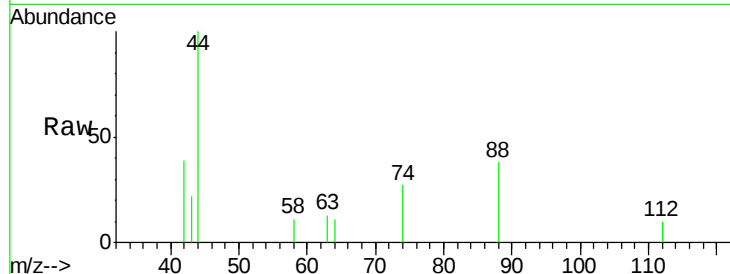


#3

n-Nitrosodimethylamine
Concen: 0.06 ng
RT: 3.53 min Scan# 137
Delta R.T. 0.04 min
Lab File: BE091446.D
Acq: 3 Mar 2016 6:06

Instrument :
BNA_F
ClientSampleId :

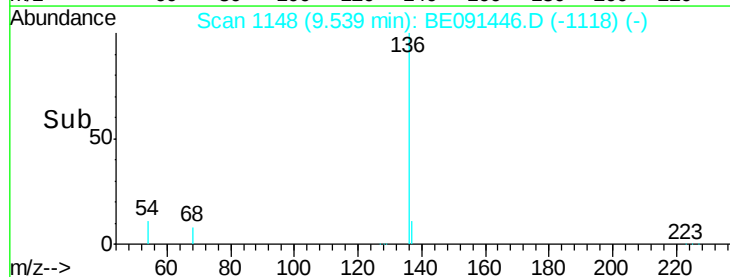
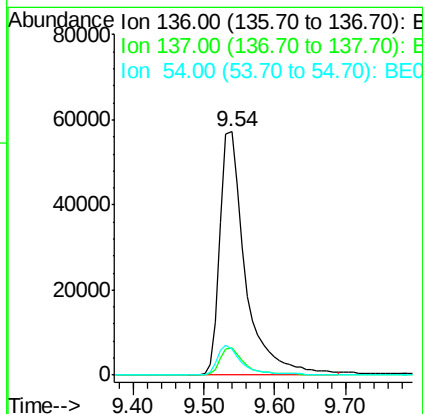
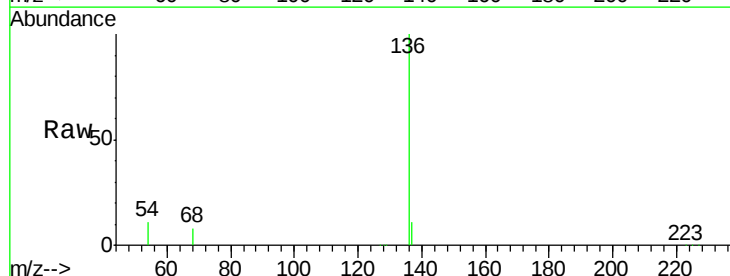
Tgt Ion: 42 Resp: 162
Ion Ratio Lower Upper
42 100
74 133.3 91.1 136.7
44 25.9 4.7 7.1#

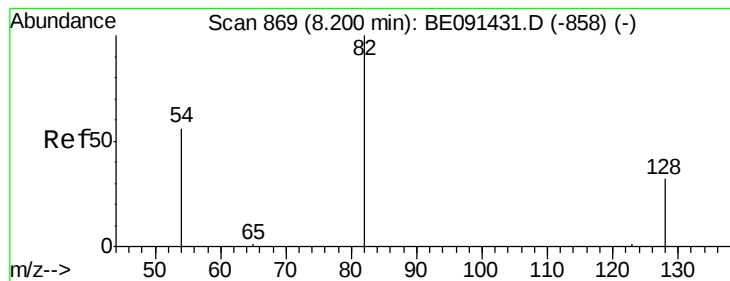


#4

Naphthalene-d8
Concen: 5.00 ng
RT: 9.54 min Scan# 1148
Delta R.T. 0.01 min
Lab File: BE091446.D
Acq: 3 Mar 2016 6:06

Tgt Ion: 136 Resp: 142783
Ion Ratio Lower Upper
136 100
137 11.0 9.0 13.4
54 10.8 9.1 13.7





#5

Nitrobenzene-d5

Concen: 4.64 ng

RT: 8.15 min Scan# 858

Delta R.T. -0.03 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

Instrument :

BNA_F

ClientSampleId :

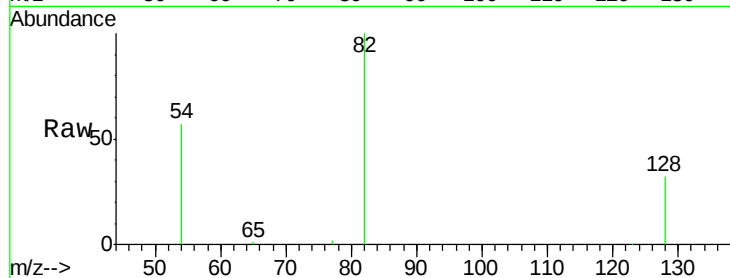
Tgt Ion: 82 Resp: 36981

Ion Ratio Lower Upper

82 100

128 31.6 31.4 47.0

54 56.9 45.5 68.3

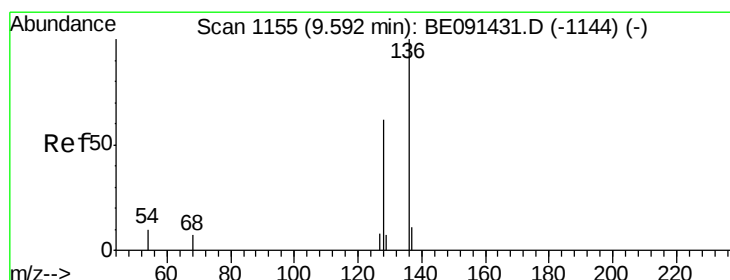
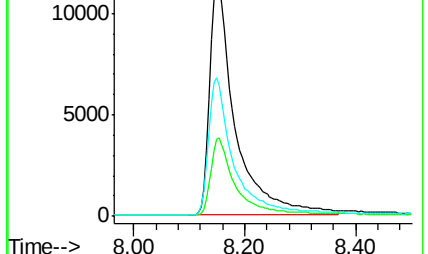
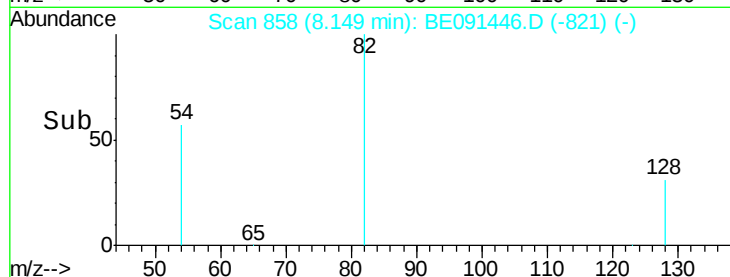


Abundance Ion 82.00 (81.70 to 82.70): BE091431.D (-858) (-)

Ion 128.00 (127.70 to 128.70): BE091431.D (-858) (-)

Ion 54.00 (53.70 to 54.70): BE091431.D (-858) (-)

Time-->



#6

Naphthalene

Concen: 0.26 ng

RT: 9.58 min Scan# 1154

Delta R.T. 0.01 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

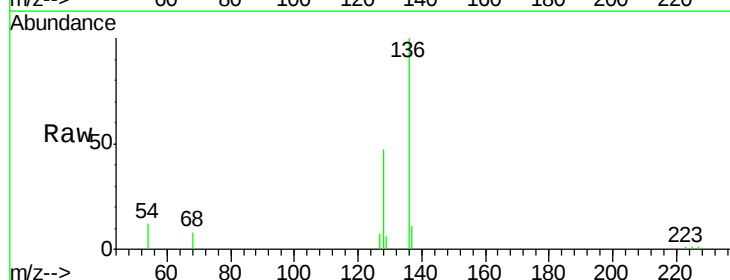
Tgt Ion: 128 Resp: 9245

Ion Ratio Lower Upper

128 100

129 12.1 9.4 14.0

127 13.8 11.0 16.6

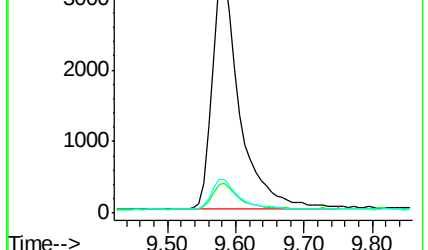
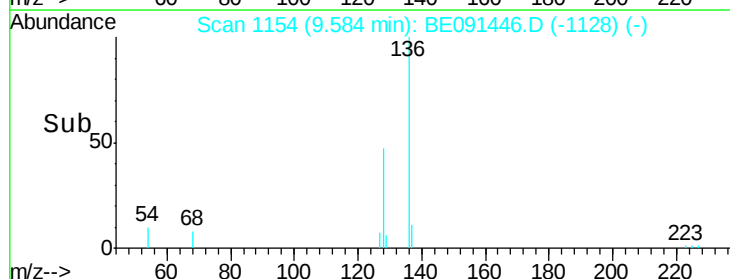


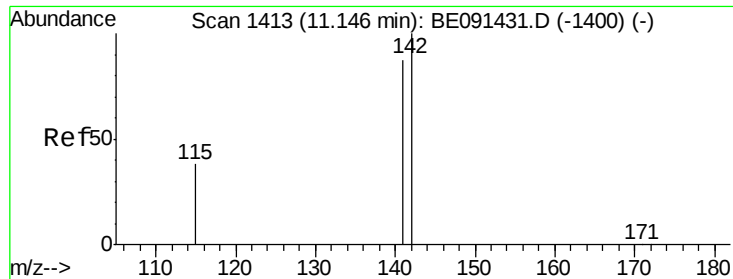
Abundance Ion 128.00 (127.70 to 128.70): BE091446.D (-1128) (-)

Ion 129.00 (128.70 to 129.70): BE091446.D (-1128) (-)

Ion 127.00 (126.70 to 127.70): BE091446.D (-1128) (-)

Time-->





#7

2-Methylnaphthalene

Concen: 0.25 ng

RT: 11.14 min Scan# 1411

Delta R.T. -0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

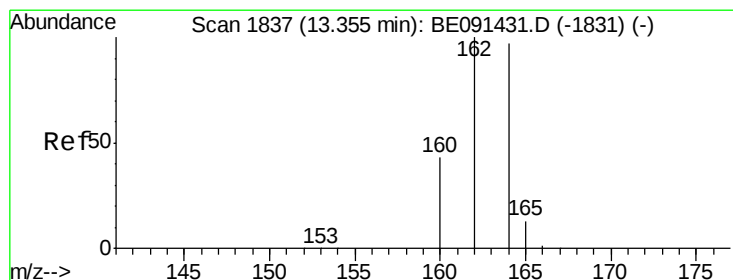
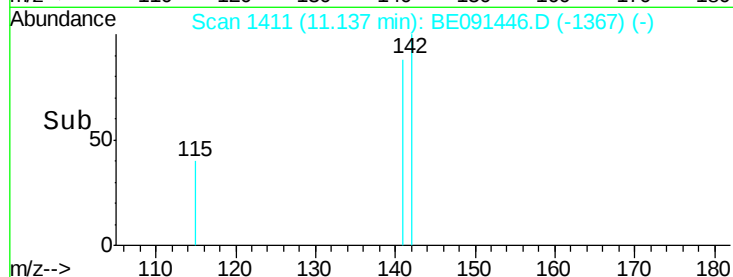
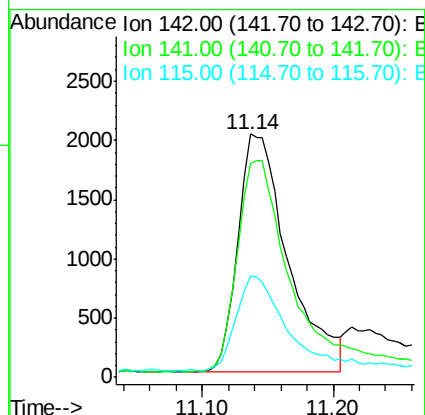
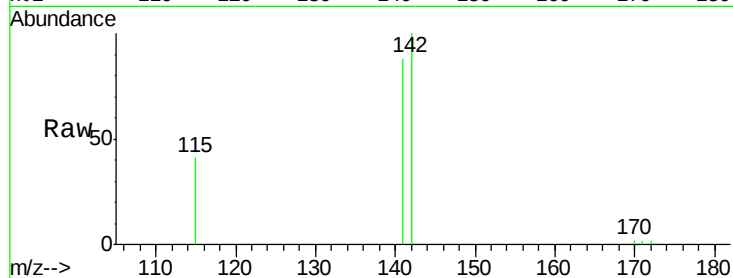
Instrument :

BNA_F

ClientSampled :

Tgt Ion:142 Resp: 5327

Ion	Ratio	Lower	Upper
142	100		
141	87.8	68.8	103.2
115	41.5	31.0	46.6



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.35 min Scan# 1836

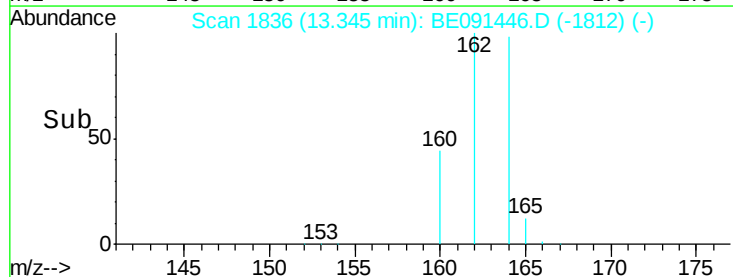
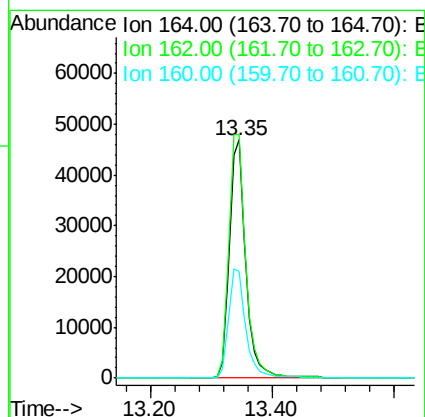
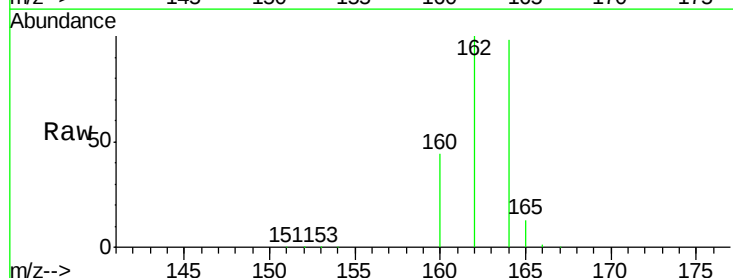
Delta R.T. 0.01 min

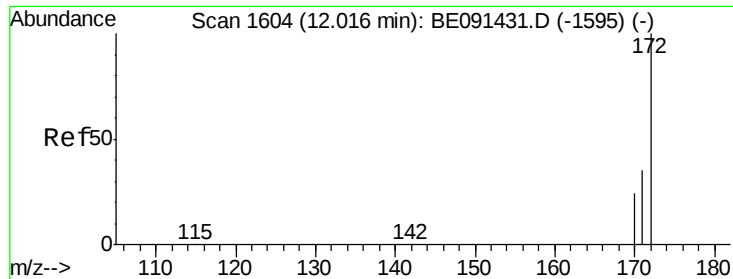
Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

Tgt Ion:164 Resp: 86303

Ion	Ratio	Lower	Upper
164	100		
162	102.1	83.4	125.0
160	44.6	37.8	56.8

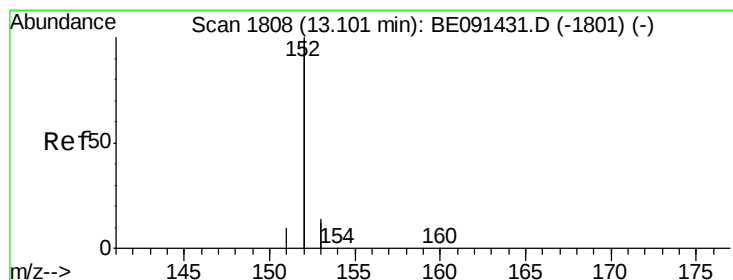
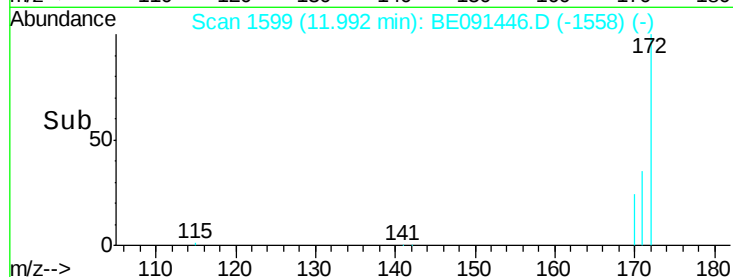
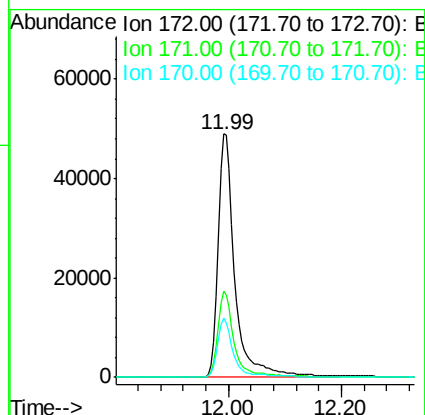
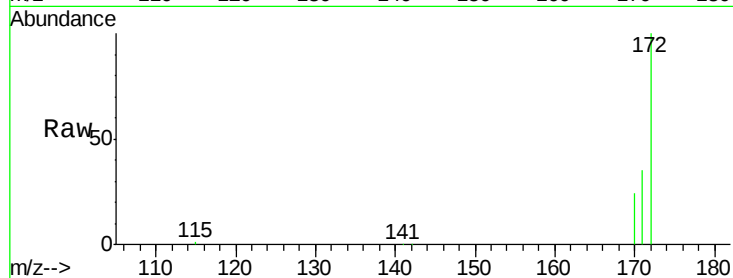




#9
 2-Fluorobiphenyl
 Concen: 4.27 ng
 RT: 11.99 min Scan# 1599
 Delta R.T. -0.01 min
 Lab File: BE091446.D
 Acq: 3 Mar 2016 6:06

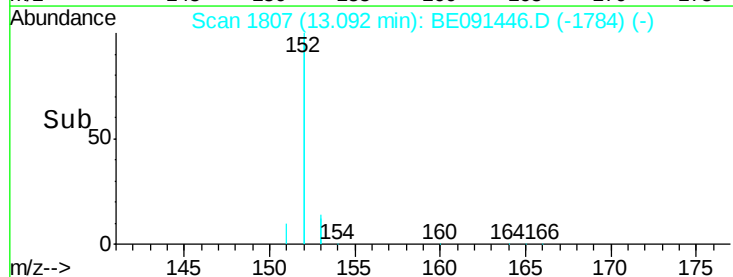
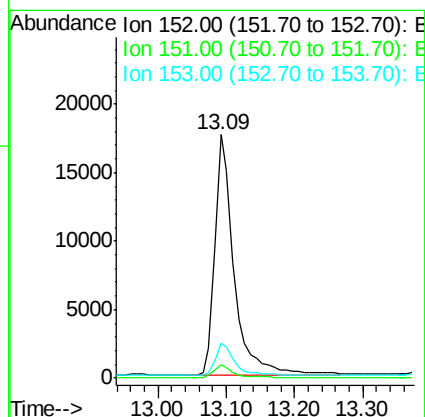
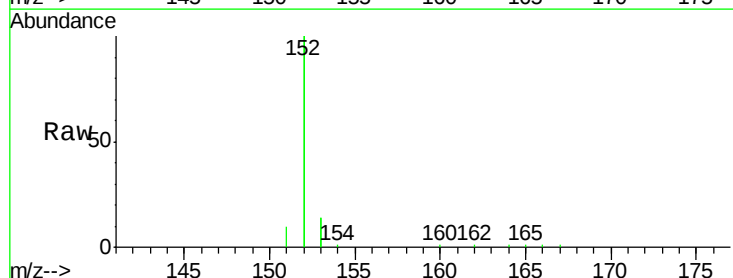
Instrument :
 BNA_F
 ClientSampleId :

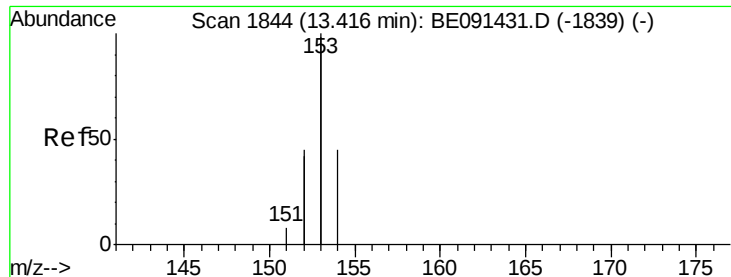
Tgt Ion:172 Resp: 101300
 Ion Ratio Lower Upper
 172 100
 171 35.4 27.8 41.8
 170 24.3 19.3 28.9



#10
 Acenaphthylene
 Concen: 0.23 ng
 RT: 13.09 min Scan# 1807
 Delta R.T. -0.00 min
 Lab File: BE091446.D
 Acq: 3 Mar 2016 6:06

Tgt Ion:152 Resp: 34411
 Ion Ratio Lower Upper
 152 100
 151 4.8 3.8 5.6
 153 13.3 10.4 15.6





#11

Acenaphthene

Concen: 0.25 ng

RT: 13.41 min Scan# 1843

Delta R.T. -0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

Instrument :

BNA_F

ClientSampleId :

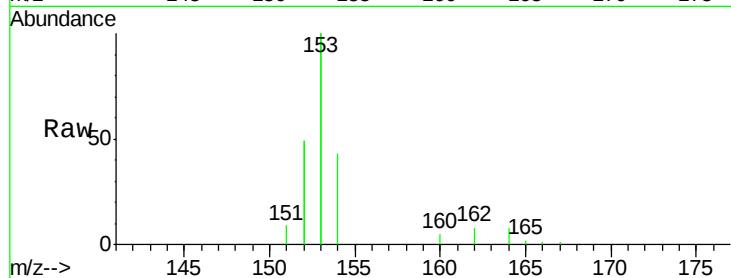
Tgt Ion:154 Resp: 6587

Ion Ratio Lower Upper

154 100

153 462.9 362.3 543.5

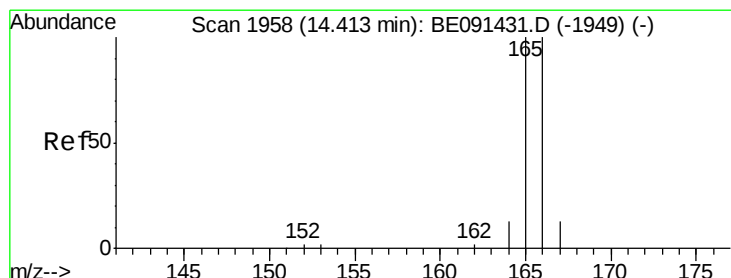
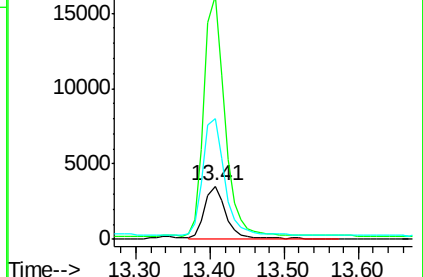
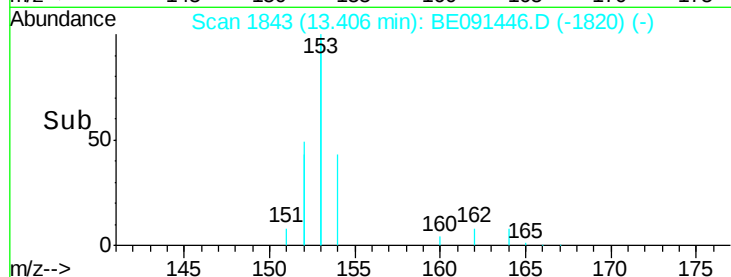
152 236.3 182.6 273.8



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



#12

Fluorene

Concen: 0.24 ng

RT: 14.40 min Scan# 1957

Delta R.T. -0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

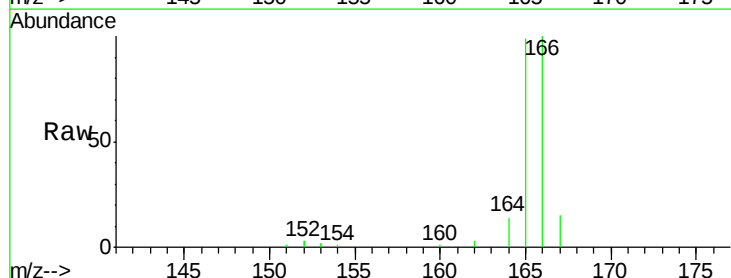
Tgt Ion:166 Resp: 8536

Ion Ratio Lower Upper

166 100

165 100.4 79.1 118.7

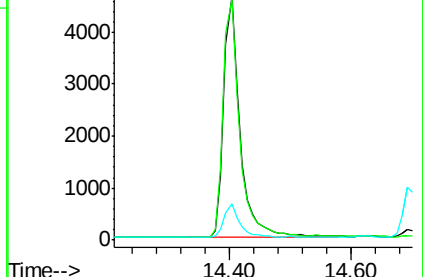
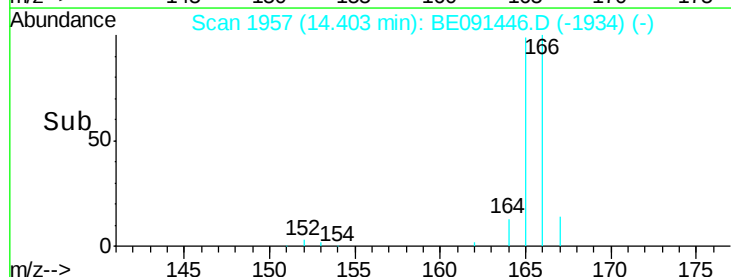
167 13.6 11.1 16.7

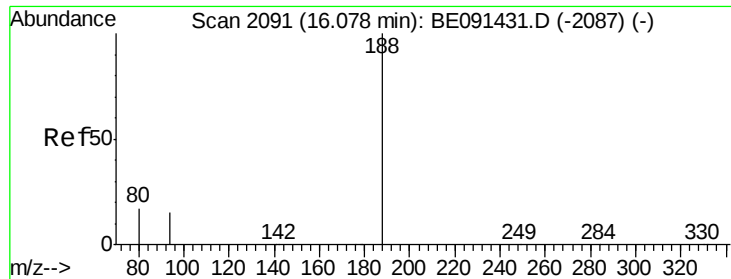


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

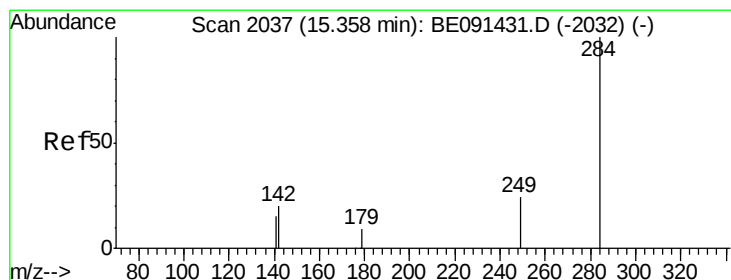
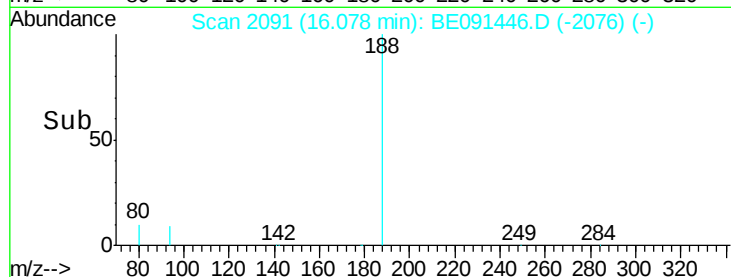
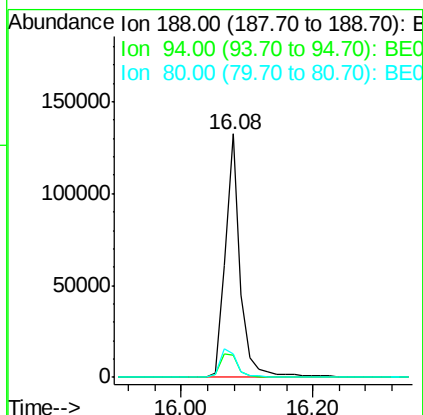
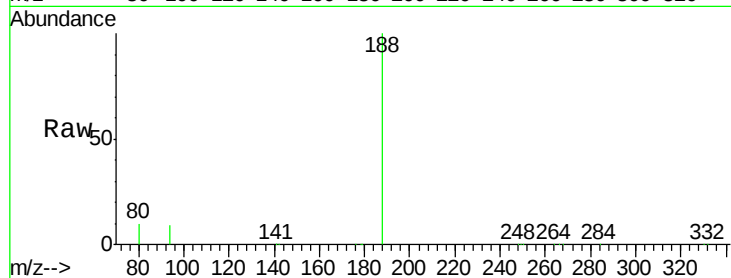




#13
Phenanthrene-d10
Concen: 5.00 ng
RT: 16.08 min Scan# 2091
Delta R.T. -0.00 min
Lab File: BE091446.D
Acq: 3 Mar 2016 6:06

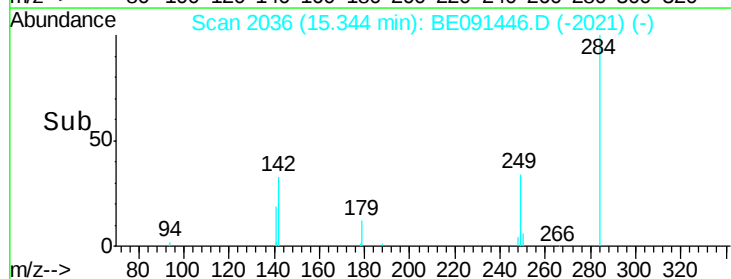
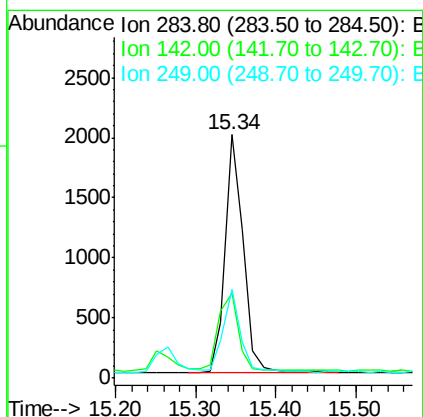
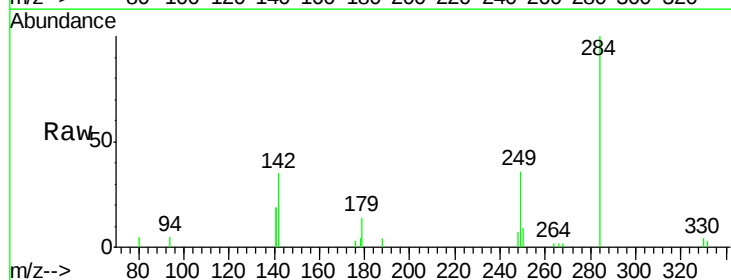
Instrument :
BNA_F
ClientSampleId :

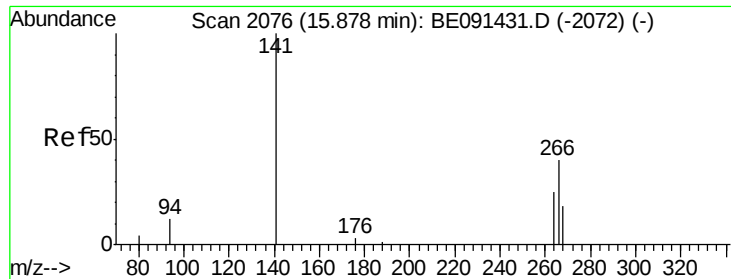
Tgt Ion:188 Resp: 212931
Ion Ratio Lower Upper
188 100
94 9.1 7.0 10.6
80 9.6 7.5 11.3



#14
Hexachlorobenzene
Concen: 0.28 ng
RT: 15.34 min Scan# 2036
Delta R.T. -0.00 min
Lab File: BE091446.D
Acq: 3 Mar 2016 6:06

Tgt Ion:284 Resp: 3104
Ion Ratio Lower Upper
284 100
142 36.8 30.4 45.6
249 33.2 26.5 39.7

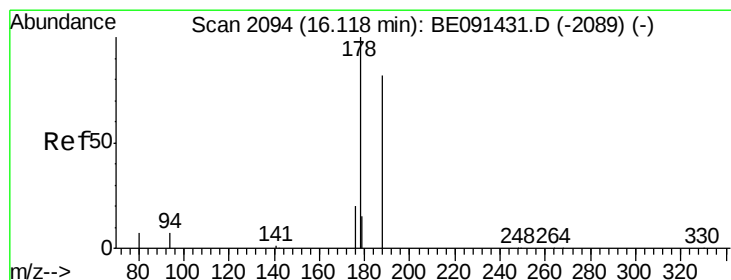
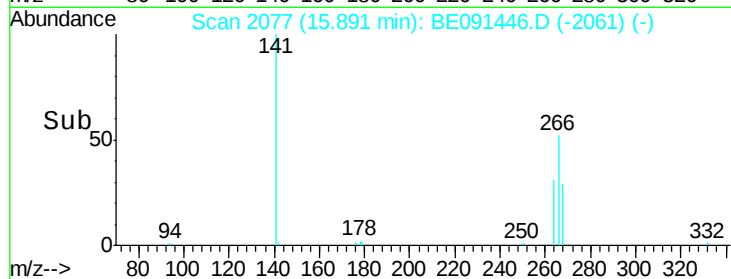
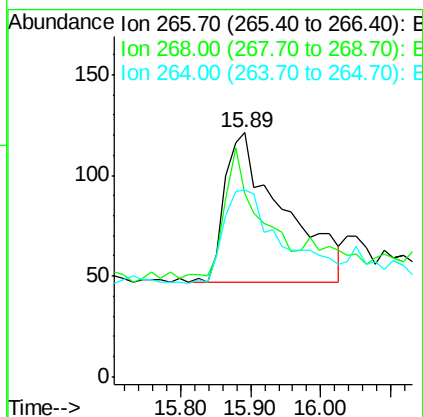
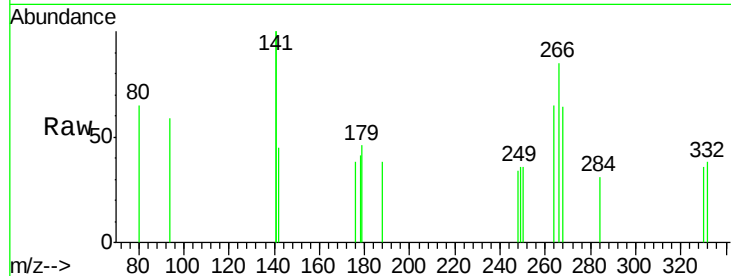




#15
 Pentachlorophenol
 Concen: 0.25 ng
 RT: 15.89 min Scan# 2077
 Delta R.T. 0.01 min
 Lab File: BE091446.D
 Acq: 3 Mar 2016 6:06

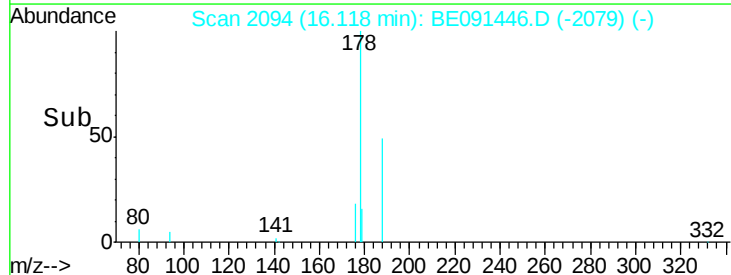
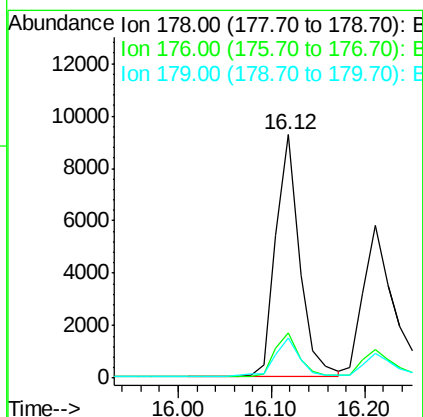
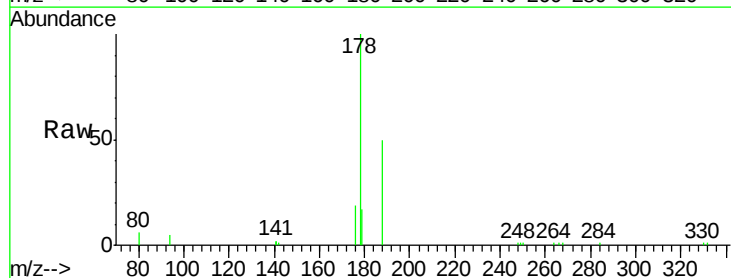
Instrument :
 BNA_F
 ClientSampleId :

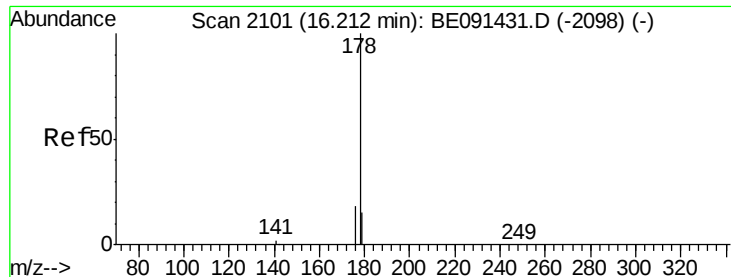
Tgt Ion: 266 Resp: 428
 Ion Ratio Lower Upper
 266 100
 268 75.2 65.4 98.2
 264 76.9 61.2 91.8



#16
 Phenanthrene
 Concen: 0.26 ng
 RT: 16.12 min Scan# 2094
 Delta R.T. -0.00 min
 Lab File: BE091446.D
 Acq: 3 Mar 2016 6:06

Tgt Ion: 178 Resp: 16482
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.0 22.4
 179 16.9 12.6 19.0

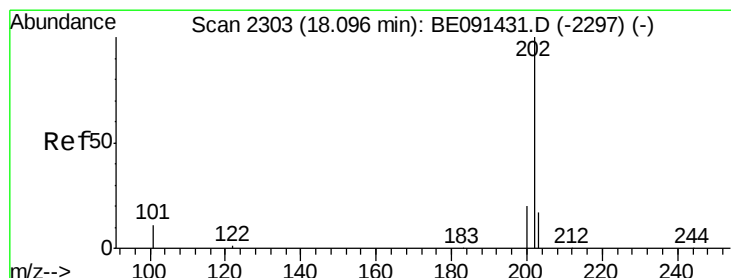
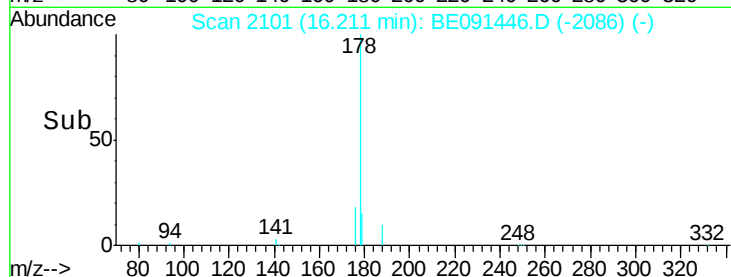
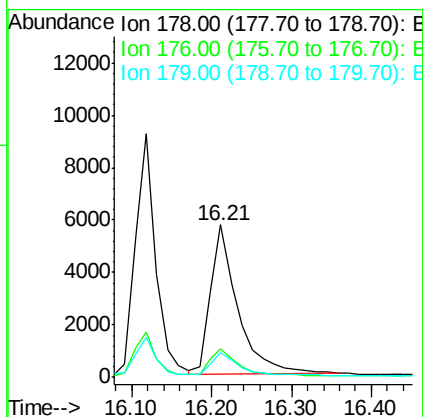
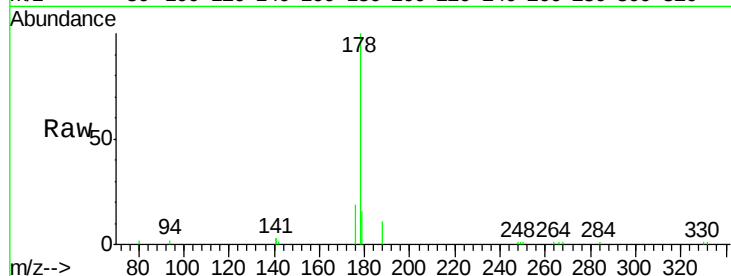




#17
 Anthracene
 Concen: 0.24 ng
 RT: 16.21 min Scan# 2101
 Delta R.T. -0.00 min
 Lab File: BE091446.D
 Acq: 3 Mar 2016 6:06

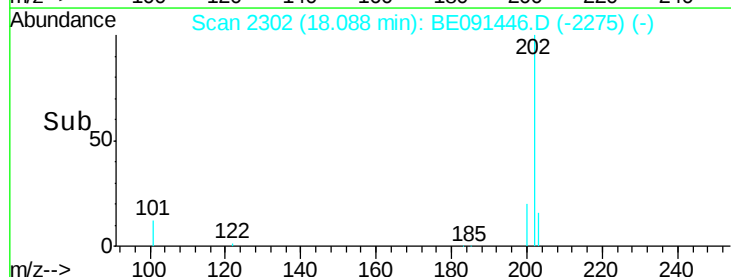
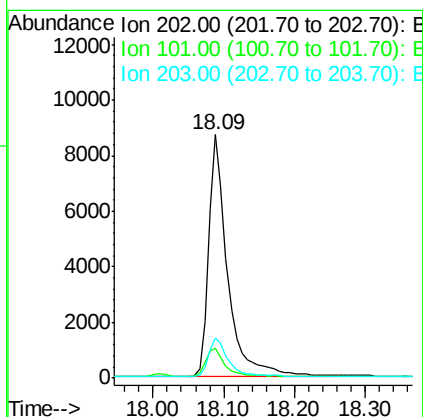
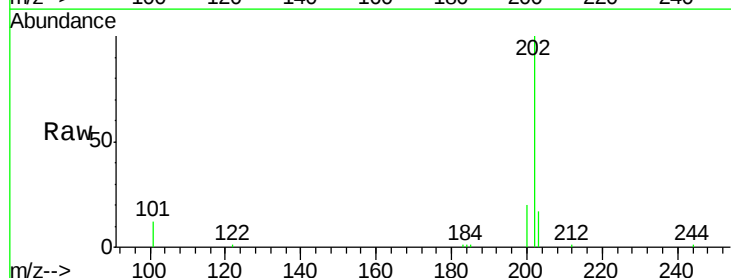
Instrument :
 BNA_F
 ClientSampleId :

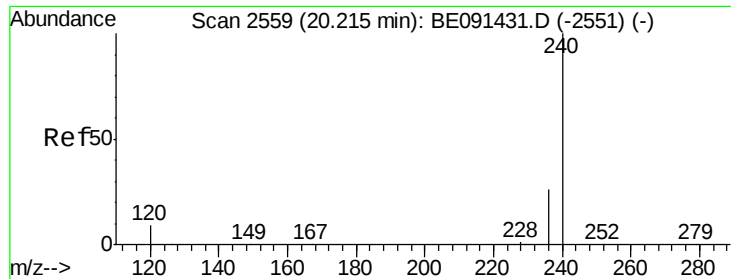
Tgt Ion:178 Resp: 13452
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.7 22.1
 179 15.6 13.0 19.4



#18
 Fluoranthene
 Concen: 0.24 ng
 RT: 18.09 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BE091446.D
 Acq: 3 Mar 2016 6:06

Tgt Ion:202 Resp: 16422
 Ion Ratio Lower Upper
 202 100
 101 12.3 10.3 15.5
 203 16.9 13.8 20.6





#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 2559

Delta R.T. 0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

Instrument :

BNA_F

ClientSampled :

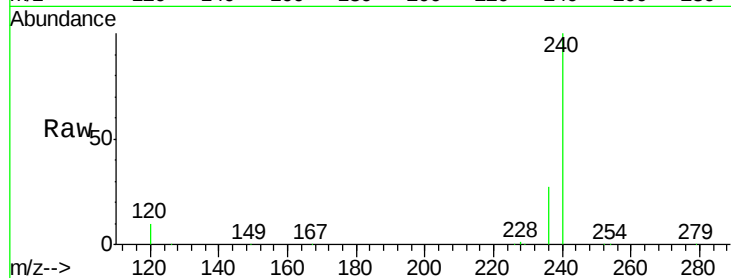
Tgt Ion:240 Resp: 277076

Ion Ratio Lower Upper

240 100

120 10.3 9.4 14.2

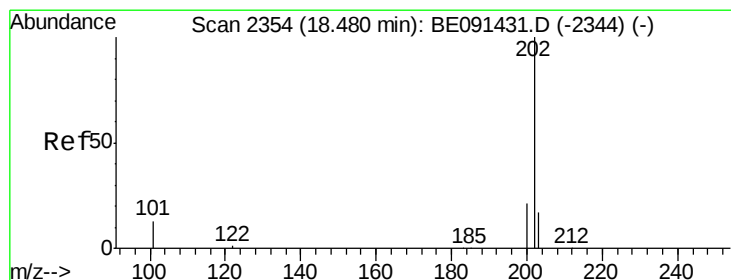
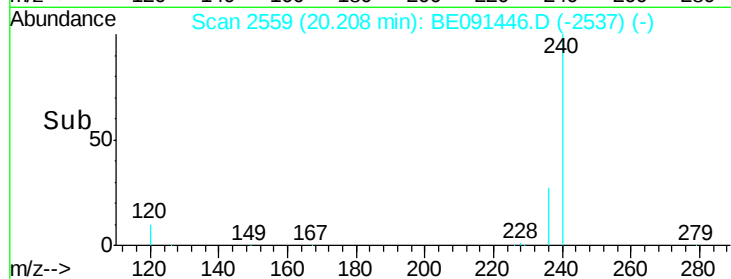
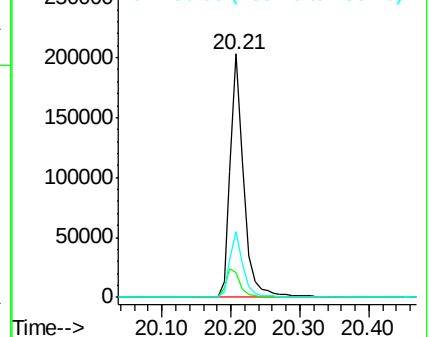
236 27.1 21.5 32.3



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



#20

Pyrene

Concen: 0.25 ng

RT: 18.47 min Scan# 2353

Delta R.T. 0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

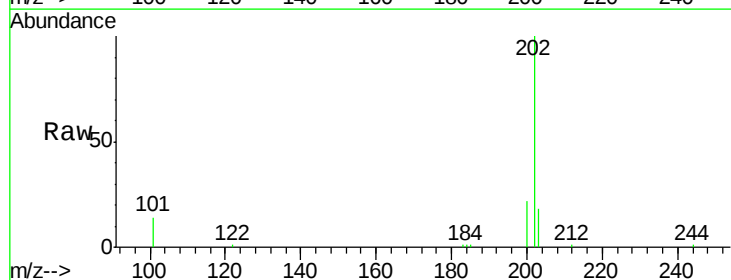
Tgt Ion:202 Resp: 16939

Ion Ratio Lower Upper

202 100

200 20.5 16.9 25.3

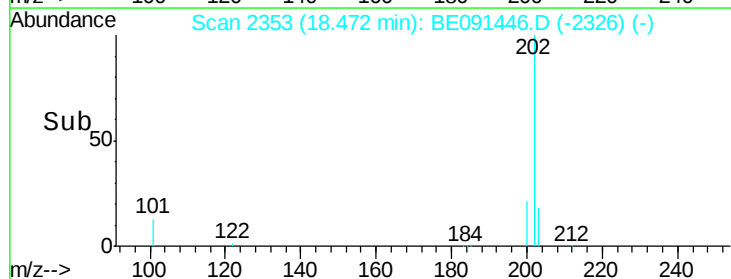
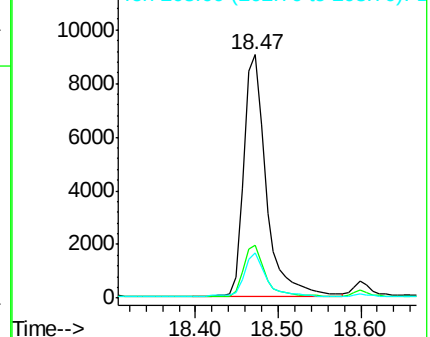
203 17.9 13.9 20.9

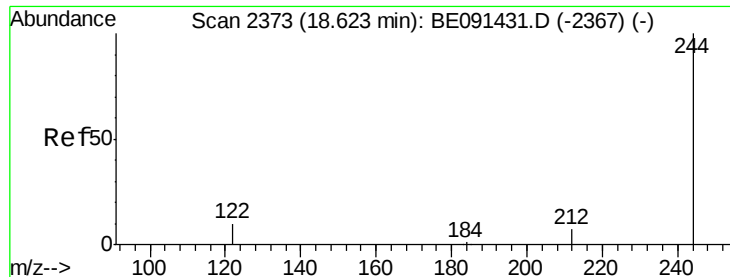


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

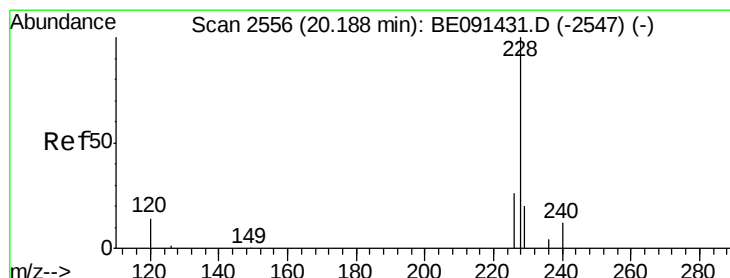
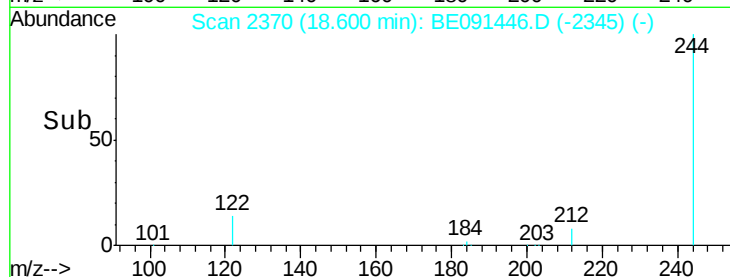
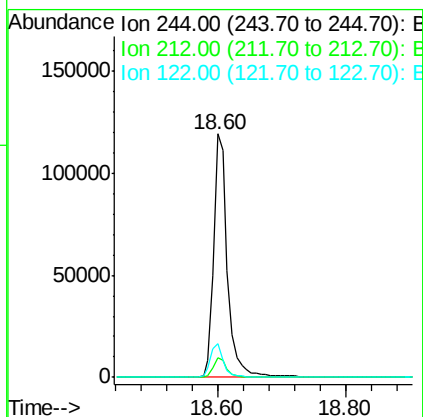
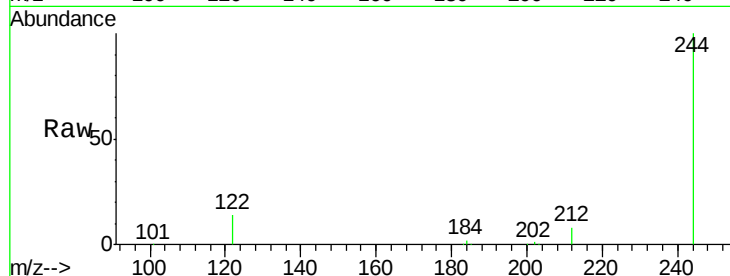




#21
 Terphenyl-d14
 Concen: 4.47 ng
 RT: 18.60 min Scan# 2370
 Delta R.T. -0.01 min
 Lab File: BE091446.D
 Acq: 3 Mar 2016 6:06

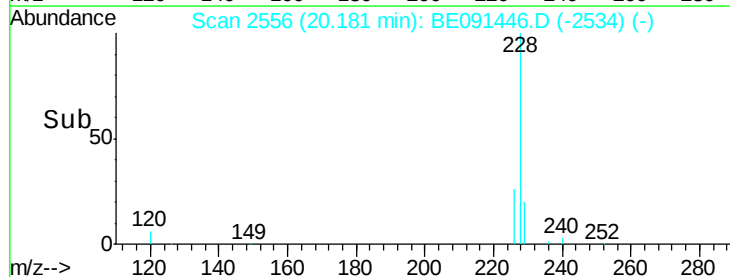
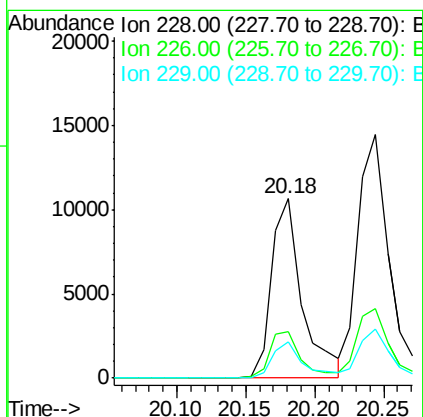
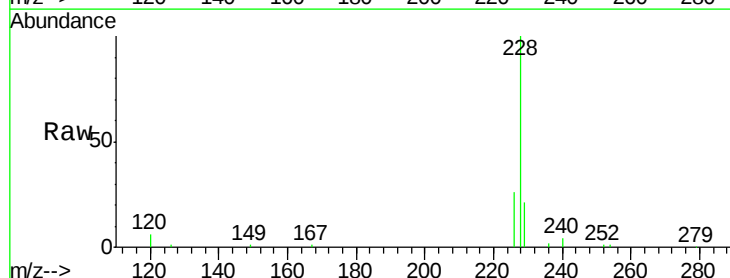
Instrument :
 BNA_F
 ClientSampleId :

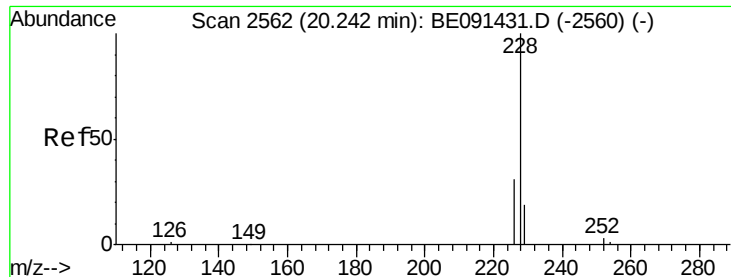
Tgt Ion: 244 Resp: 177974
 Ion Ratio Lower Upper
 244 100
 212 8.2 7.2 10.8
 122 13.6 11.1 16.7



#22
 Benzo(a)anthracene
 Concen: 0.23 ng
 RT: 20.18 min Scan# 2556
 Delta R.T. 0.00 min
 Lab File: BE091446.D
 Acq: 3 Mar 2016 6:06

Tgt Ion: 228 Resp: 16233
 Ion Ratio Lower Upper
 228 100
 226 26.2 20.8 31.2
 229 20.6 16.6 25.0





#23

Chrysene

Concen: 0.25 ng

RT: 20.24 min Scan# 2563

Delta R.T. 0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

Instrument :

BNA_F

ClientSampleId :

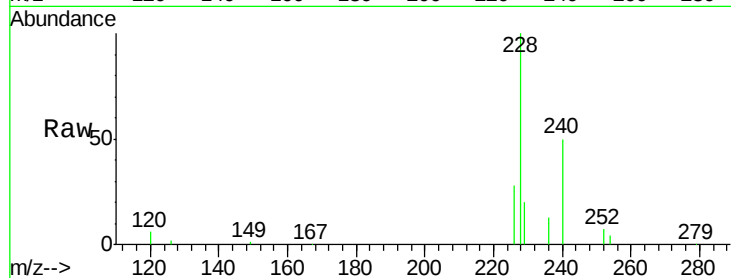
Tgt Ion:228 Resp: 23238

Ion Ratio Lower Upper

228 100

226 28.5 24.1 36.1

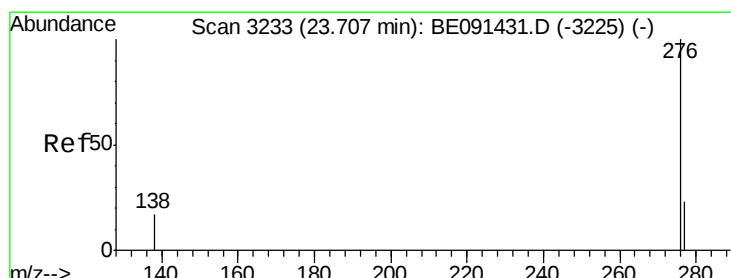
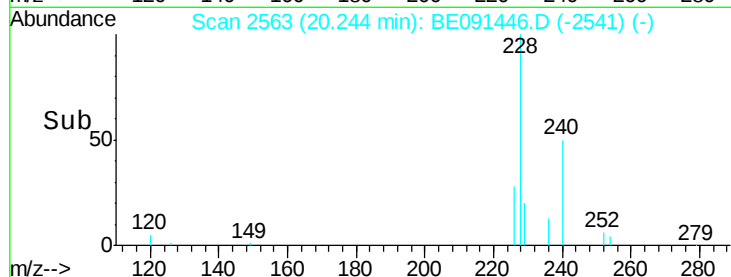
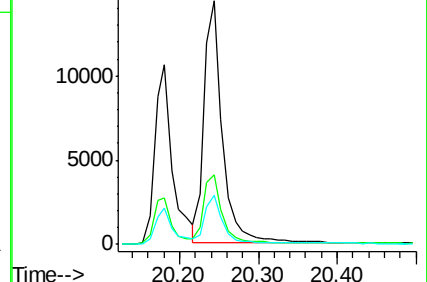
229 20.0 15.4 23.0



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.21 ng

RT: 23.69 min Scan# 3229

Delta R.T. -0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

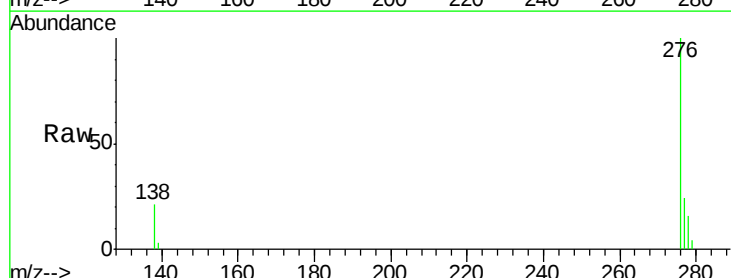
Tgt Ion:276 Resp: 18856

Ion Ratio Lower Upper

276 100

138 18.6 16.3 24.5

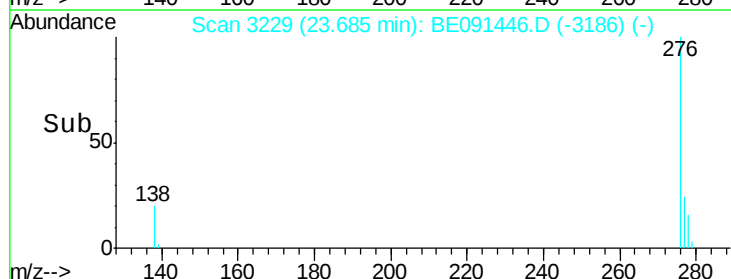
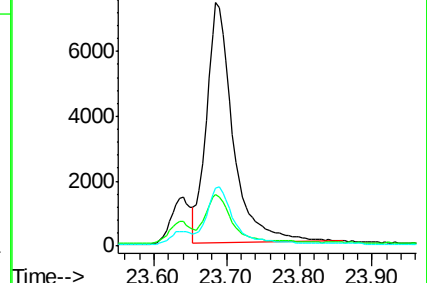
277 23.2 18.1 27.1

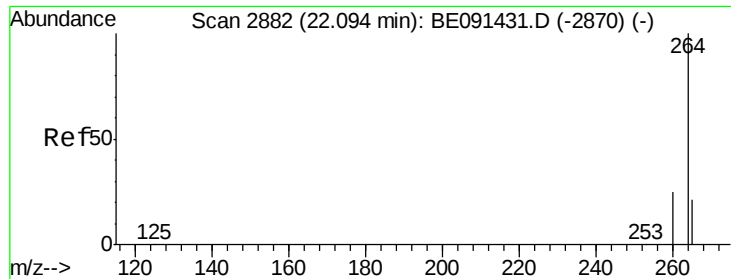


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

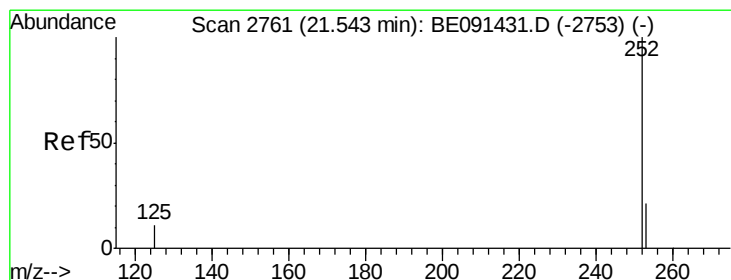
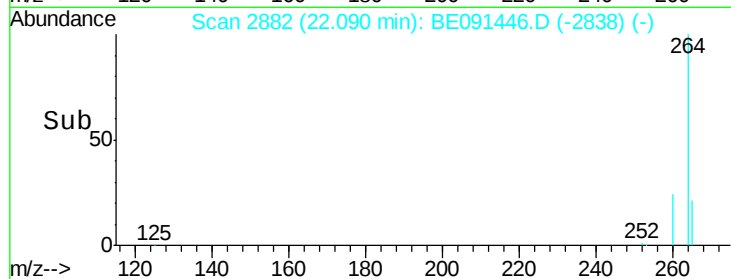
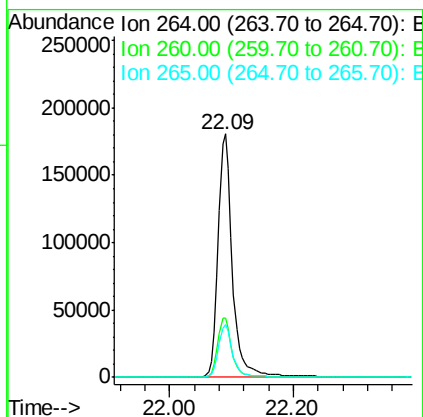
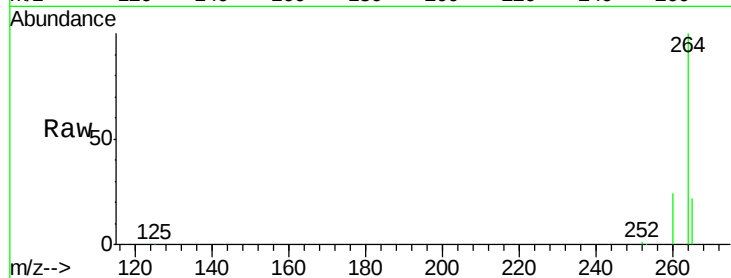




#25
Perylene-d12
Concen: 5.00 ng
RT: 22.09 min Scan# 2882
Delta R.T. 0.00 min
Lab File: BE091446.D
Acq: 3 Mar 2016 6:06

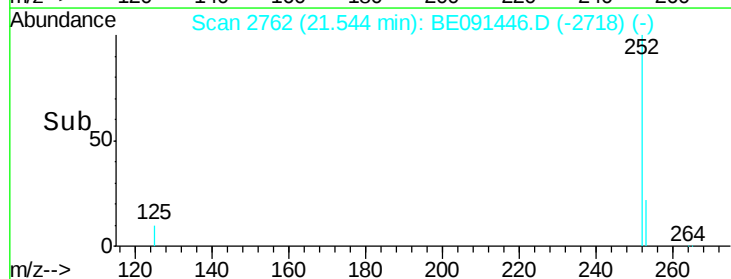
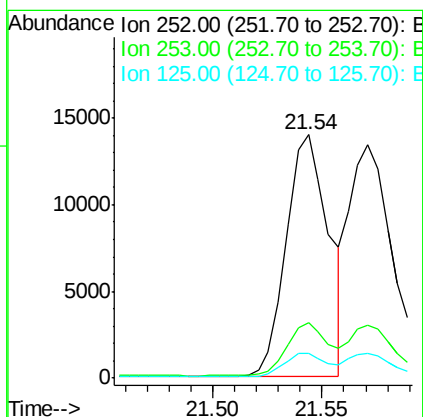
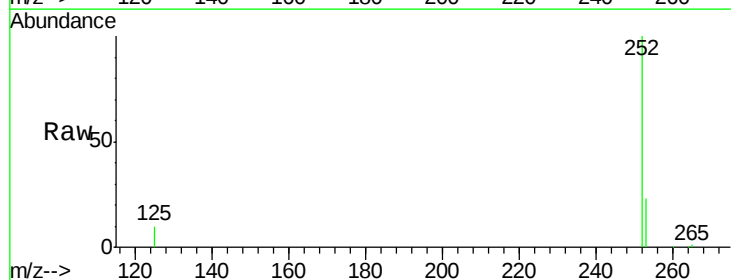
Instrument :
BNA_F
ClientSampleId :

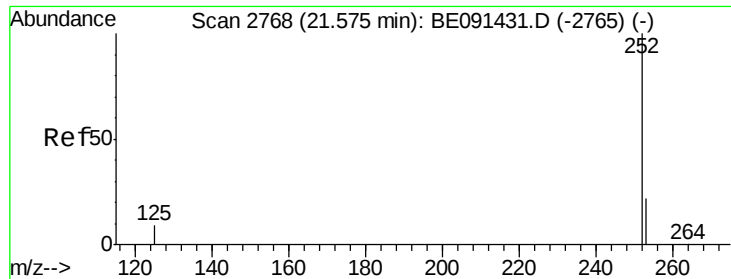
Tgt Ion: 264 Resp: 292599
Ion Ratio Lower Upper
264 100
260 24.5 20.2 30.2
265 21.5 17.2 25.8



#26
Benzo(b)fluoranthene
Concen: 0.24 ng
RT: 21.54 min Scan# 2762
Delta R.T. 0.00 min
Lab File: BE091446.D
Acq: 3 Mar 2016 6:06

Tgt Ion: 252 Resp: 18852
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.6
125 10.3 8.6 12.8

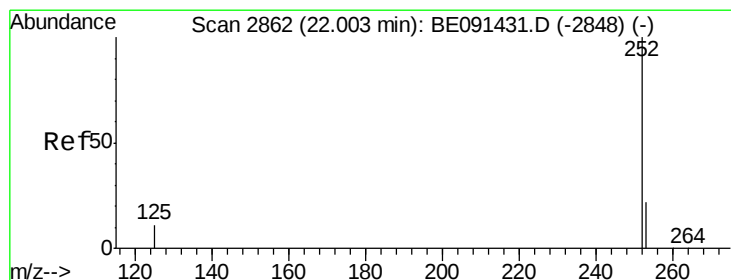
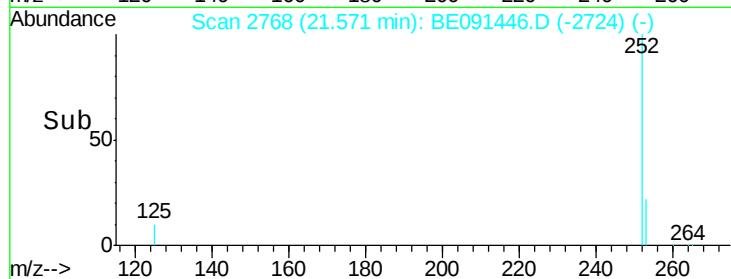
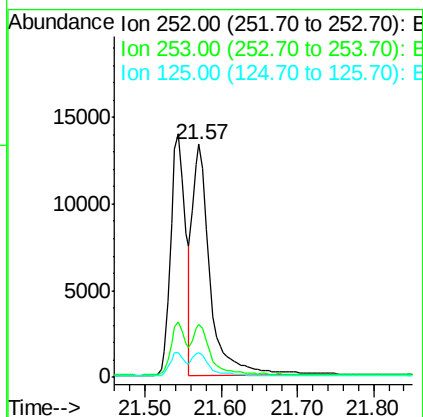
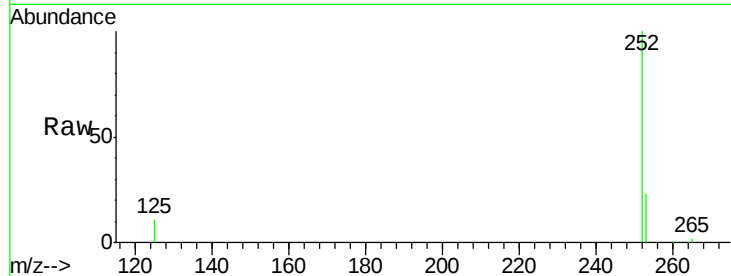




#27
Benzo(k)fluoranthene
Concen: 0.23 ng
RT: 21.57 min Scan# 2768
Delta R.T. 0.00 min
Lab File: BE091446.D
Acq: 3 Mar 2016 6:06

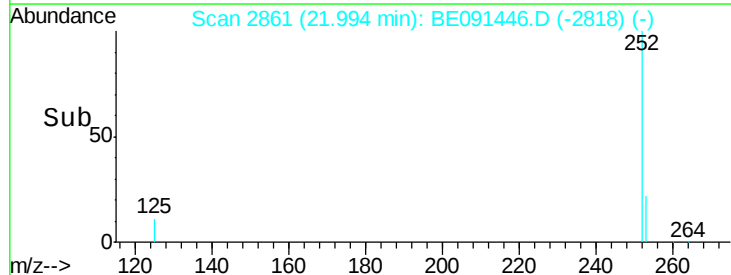
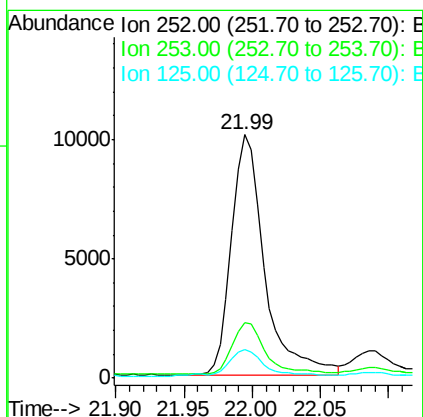
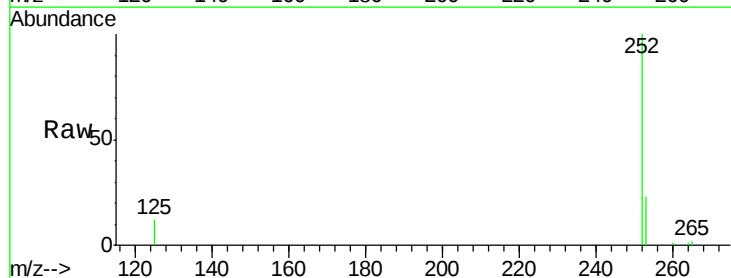
Instrument :
BNA_F
ClientSampleId :

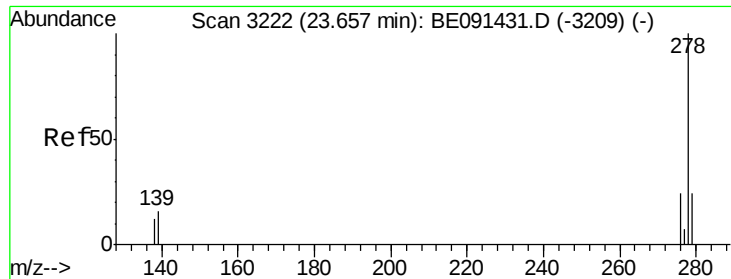
Tgt Ion:252 Resp: 21217
Ion Ratio Lower Upper
252 100
253 22.6 17.9 26.9
125 10.7 8.4 12.6



#28
Benzo(a)pyrene
Concen: 0.22 ng
RT: 21.99 min Scan# 2861
Delta R.T. -0.00 min
Lab File: BE091446.D
Acq: 3 Mar 2016 6:06

Tgt Ion:252 Resp: 17035
Ion Ratio Lower Upper
252 100
253 23.0 18.8 28.2
125 12.0 9.3 13.9





#29

Dibenzo(a,h)anthracene

Concen: 0.21 ng

RT: 23.64 min Scan# 3219

Delta R.T. 0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

Instrument :

BNA_F

ClientSampleId :

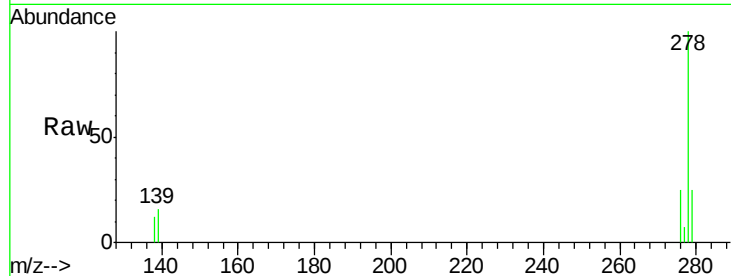
Tgt Ion: 278 Resp: 17515

Ion Ratio Lower Upper

278 100

139 16.1 13.4 20.0

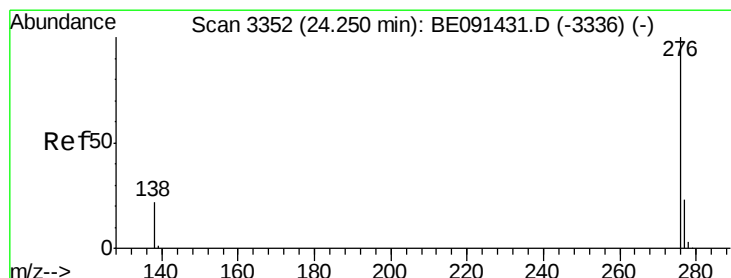
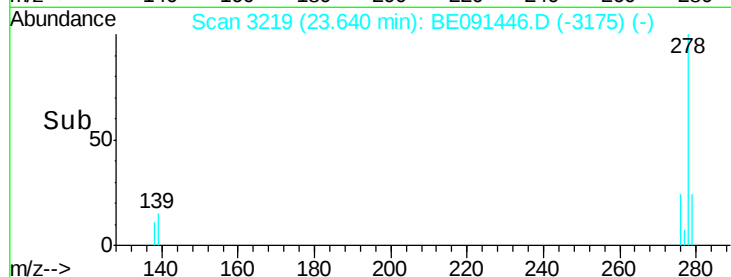
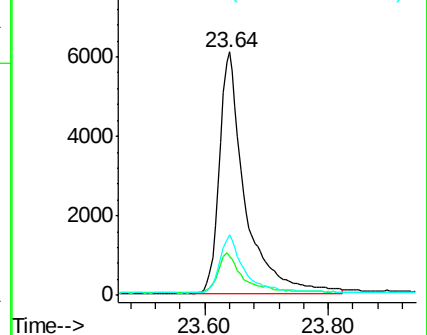
279 25.0 19.3 28.9



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 0.21 ng

RT: 24.24 min Scan# 3350

Delta R.T. -0.00 min

Lab File: BE091446.D

Acq: 3 Mar 2016 6:06

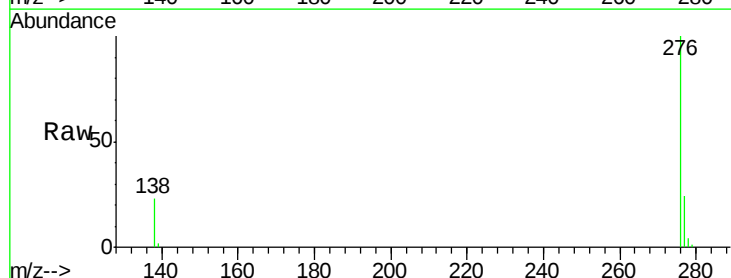
Tgt Ion: 276 Resp: 19666

Ion Ratio Lower Upper

276 100

277 23.9 18.6 28.0

138 22.6 18.6 28.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

