

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091434.D
 Acq On : 3 Mar 2016 22:10
 Operator : UM/IZ
 Sample : MDL-03-S
 Misc : 0.08PPM
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

Quant Time: Mar 04 07:51:23 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-BE030316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 04 06:35:39 2016
 Response via : Initial Calibration

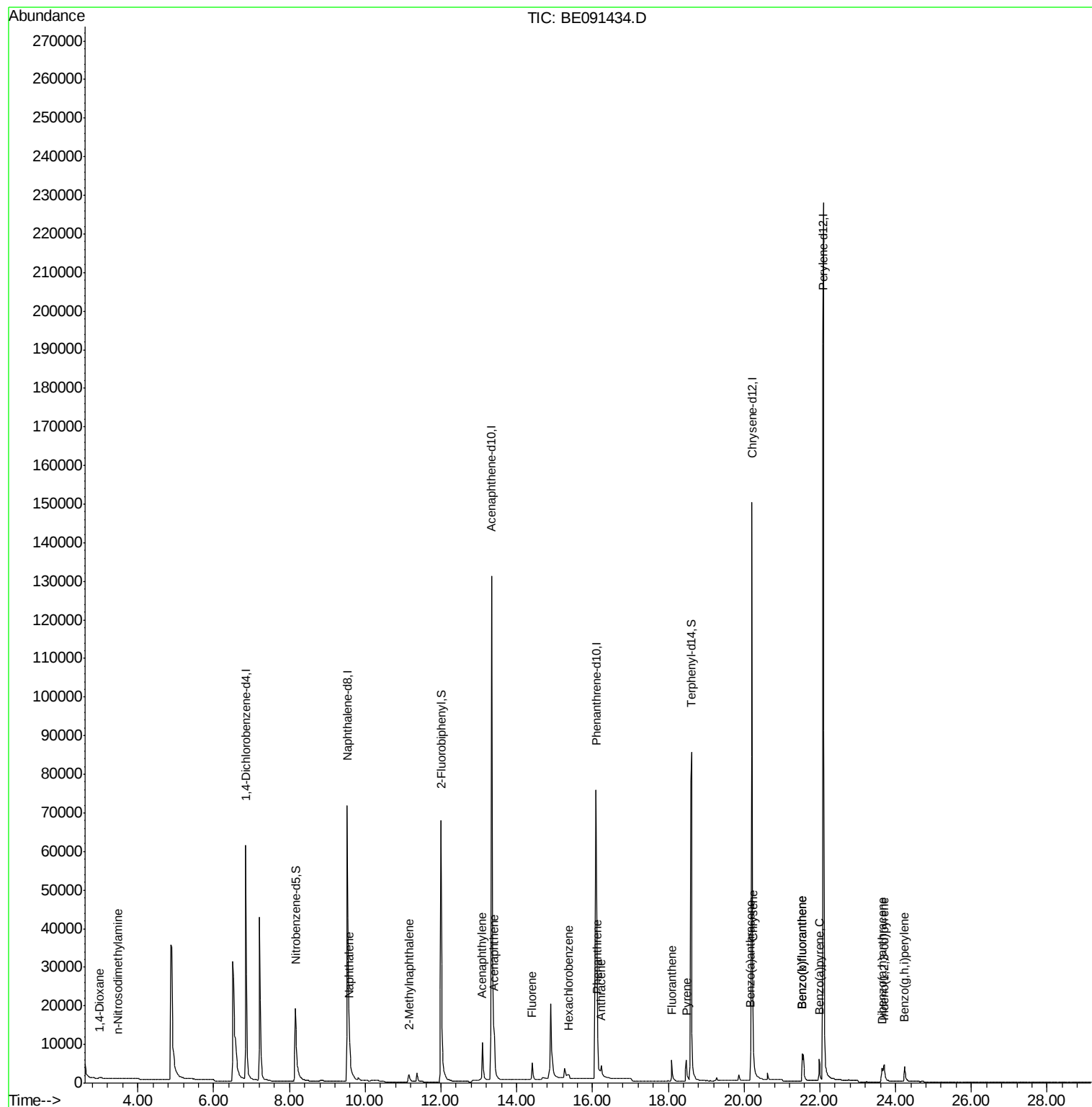
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	34415	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	149356	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	94443	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	170348	5.00	ng	0.00
19) Chrysene-d12	20.21	240	248523	5.00	ng	0.00
25) Perylene-d12	22.09	264	287113	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.16	82	35513	3.85	ng	-0.02
9) 2-Fluorobiphenyl	12.00	172	102658	4.48	ng	0.00
21) Terphenyl-d14	18.61	244	174019	4.60	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	340	0.11	ng	97
3) n-Nitrosodimethylamine	3.47	42	10	0.05	ng	# 1
6) Naphthalene	9.59	128	4404	0.13	ng	# 94
7) 2-Methylnaphthalene	11.16	142	2659	0.13	ng	97
10) Acenaphthylene	13.09	152	17452	0.11	ng	99
11) Acenaphthene	13.41	154	3610	0.13	ng	# 100
12) Fluorene	14.41	166	4210	0.12	ng	96
14) Hexachlorobenzene	15.38	284	1514	0.15	ng	# 100
15) Pentachlorophenol	15.93	266	91	Below Cal		95
16) Phenanthrene	16.13	178	7772	0.13	ng	98
17) Anthracene	16.23	178	4220	0.22	ng	# 83
18) Fluoranthene	18.09	202	7807	0.20	ng	97
20) Pyrene	18.48	202	8159	0.12	ng	99
22) Benzo(a)anthracene	20.17	228	9398	0.11	ng	99
23) Chrysene	20.24	228	11381	0.12	ng	99
24) Indeno(1,2,3-cd)pyrene	23.70	276	8973	0.12	ng	# 89
26) Benzo(b)fluoranthene	21.54	252	17821	0.22	ng	98
27) Benzo(k)fluoranthene	21.54	252	18010	0.23	ng	# 92
28) Benzo(a)pyrene	21.99	252	7614	0.11	ng	95
29) Dibenzo(a,h)anthracene	23.65	278	7047	0.11	ng	96
30) Benzo(g,h,i)perylene	24.24	276	8193	0.11	ng	98

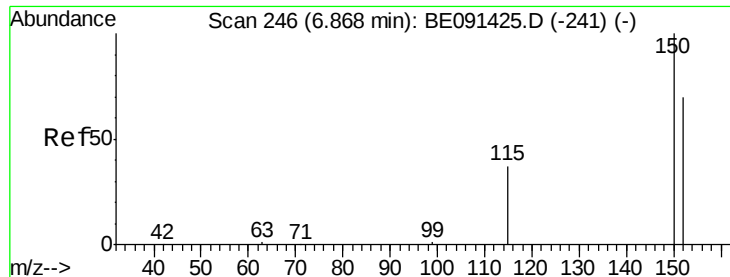
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 245

Delta R.T. -0.02 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

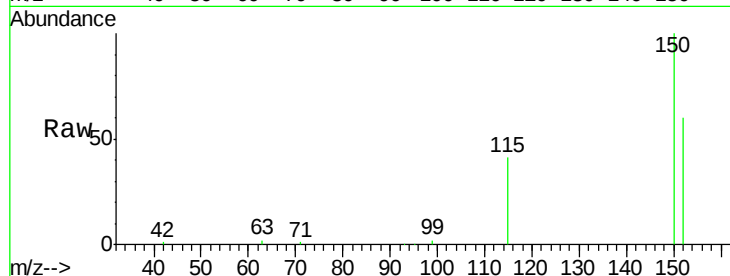
Tgt Ion:152 Resp: 34415

Ion Ratio Lower Upper

152 100

150 167.6 115.0 172.4

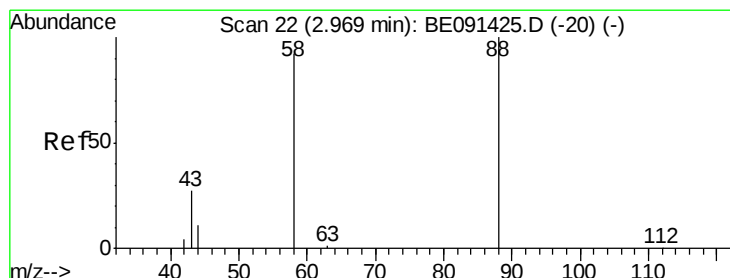
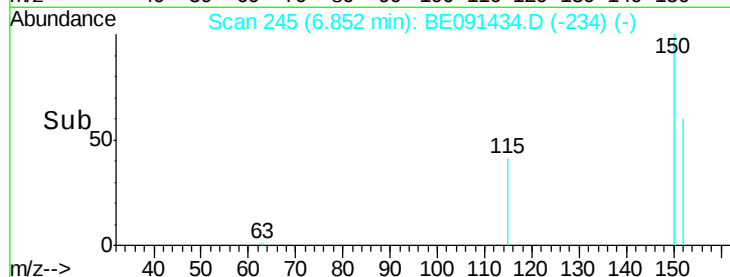
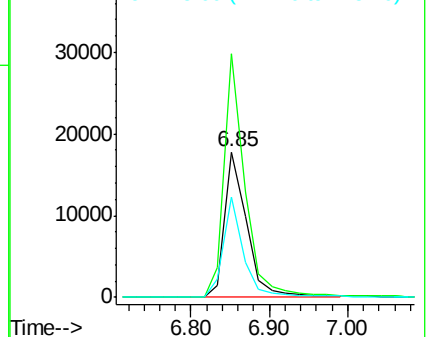
115 69.2 42.2 63.4#



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: 0.11 ng

RT: 2.99 min Scan# 23

Delta R.T. 0.02 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

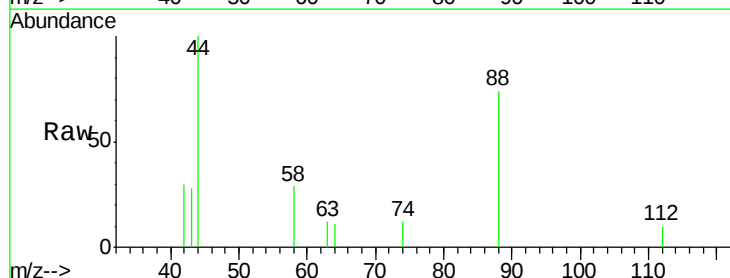
Tgt Ion: 88 Resp: 340

Ion Ratio Lower Upper

88 100

58 127.1 97.9 146.9

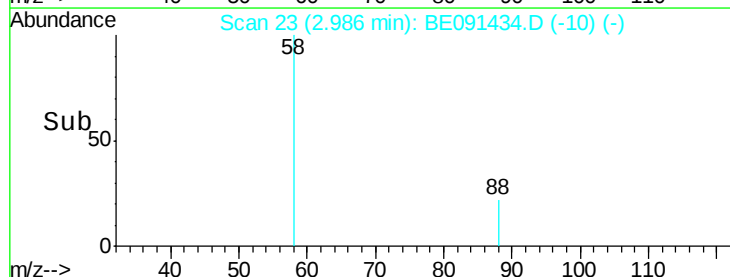
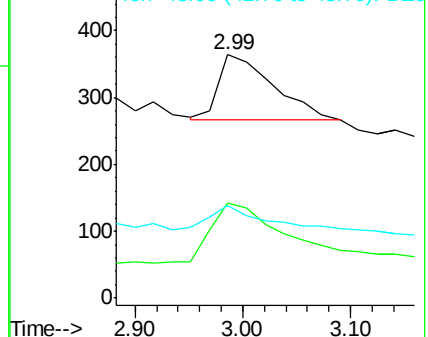
43 36.5 29.0 43.4

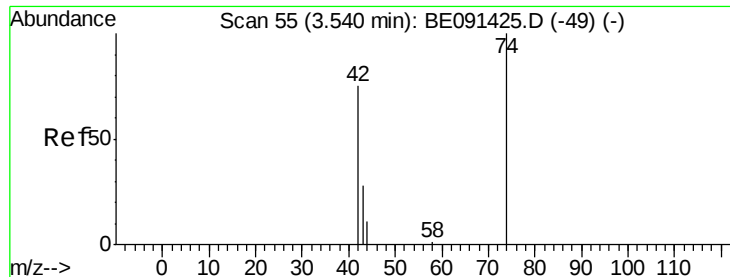


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.05 ng

RT: 3.47 min Scan# 51

Delta R.T. -0.07 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

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MDL-03-S

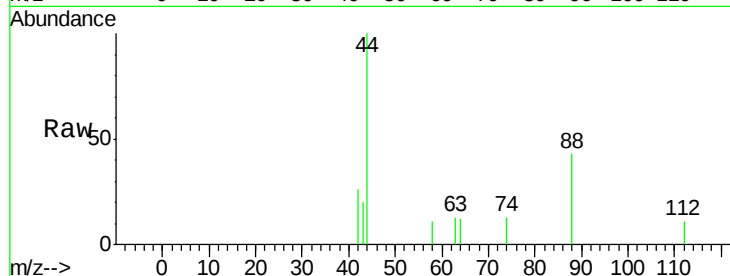
Tgt Ion: 42 Resp: 10

Ion Ratio Lower Upper

42 100

74 0.0 93.8 140.6#

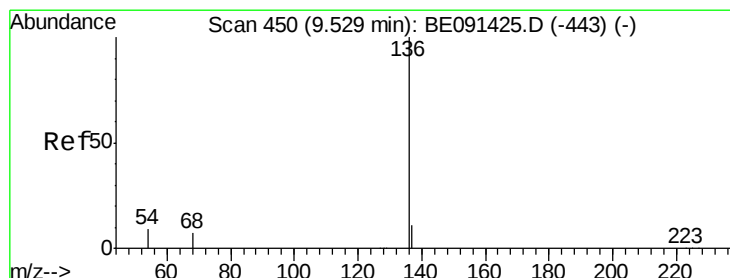
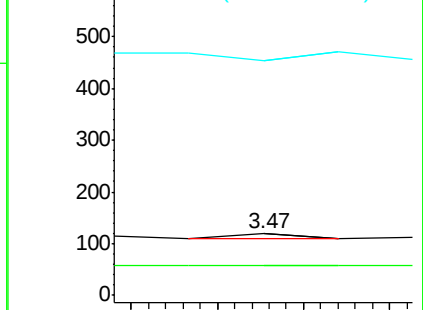
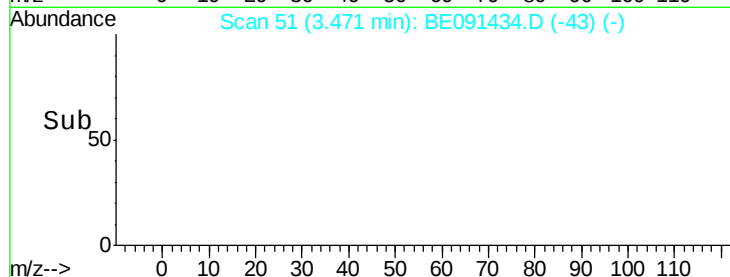
44 0.0 0.0 0.0



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

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 450

Delta R.T. -0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

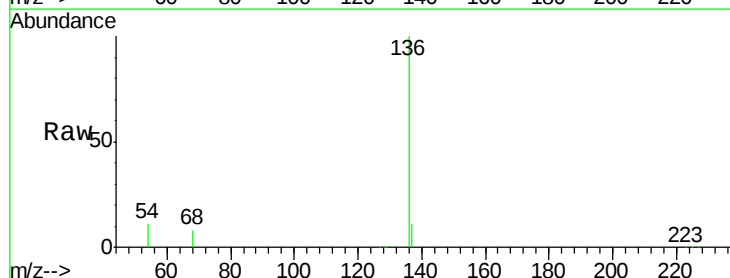
Tgt Ion: 136 Resp: 149356

Ion Ratio Lower Upper

136 100

137 10.5 8.7 13.1

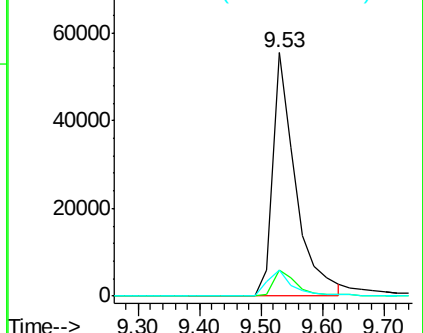
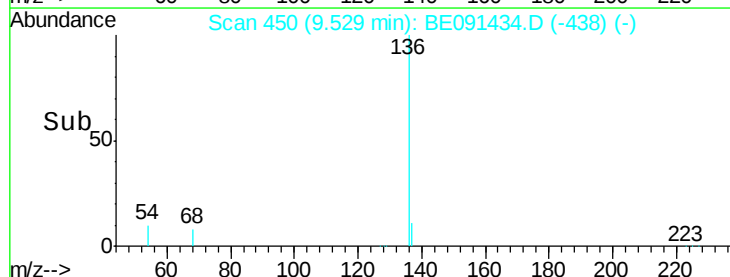
54 10.6 6.9 10.3#

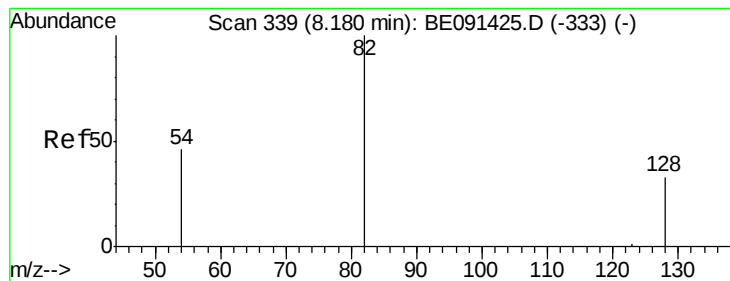


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 3.85 ng

RT: 8.16 min Scan# 337

Delta R.T. -0.02 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

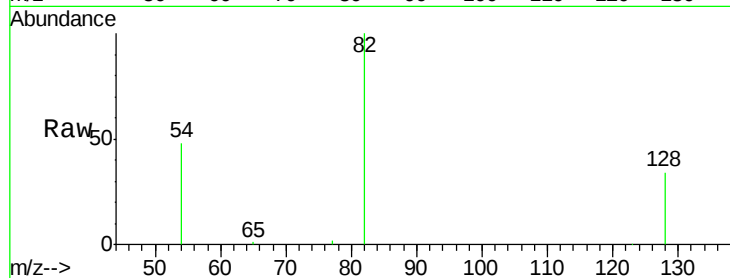
Tgt Ion: 82 Resp: 35513

Ion Ratio Lower Upper

82 100

128 34.2 30.0 45.0

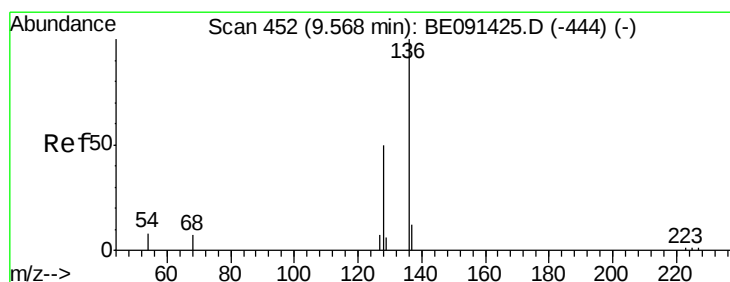
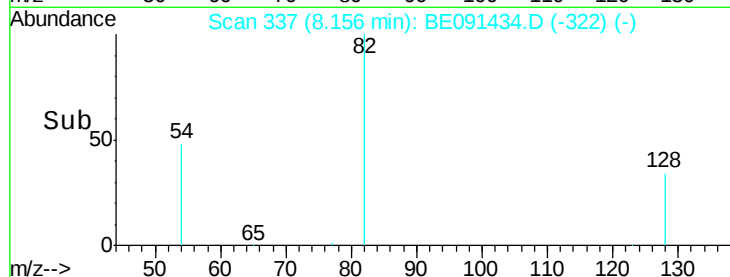
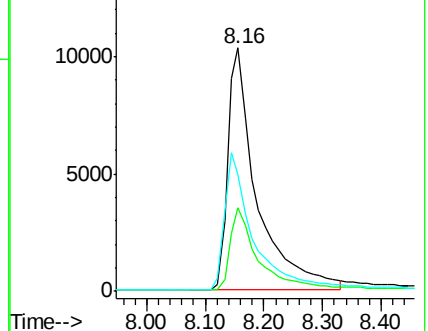
54 48.2 41.5 62.3



Abundance Ion 82.00 (81.70 to 82.70): BE091425.D (-333) (-)

Ion 128.00 (127.70 to 128.70): BE091425.D (-333) (-)

Ion 54.00 (53.70 to 54.70): BE091425.D (-333) (-)



#6

Naphthalene

Concen: 0.13 ng

RT: 9.59 min Scan# 453

Delta R.T. 0.02 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

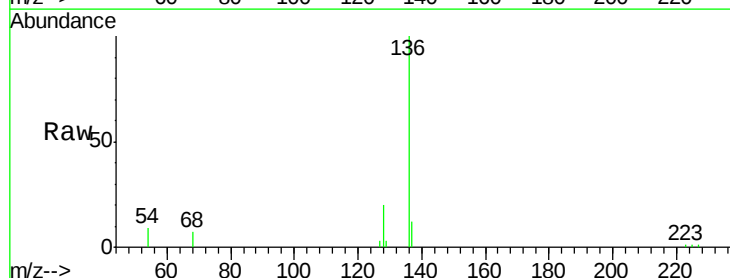
Tgt Ion: 128 Resp: 4404

Ion Ratio Lower Upper

128 100

129 15.1 9.5 14.3#

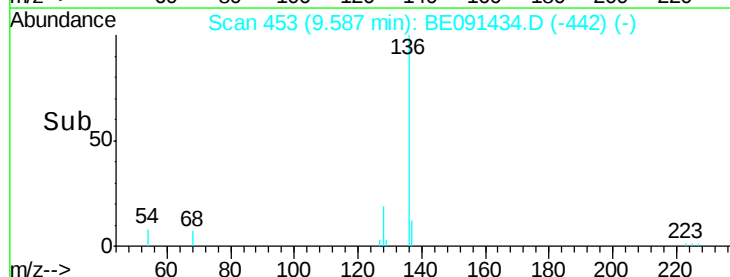
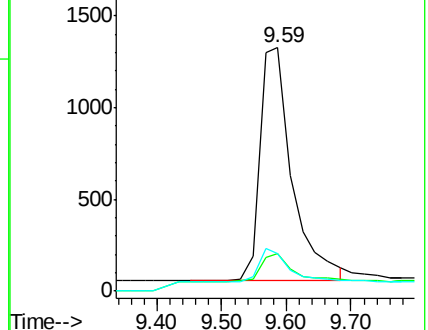
127 15.6 11.4 17.0

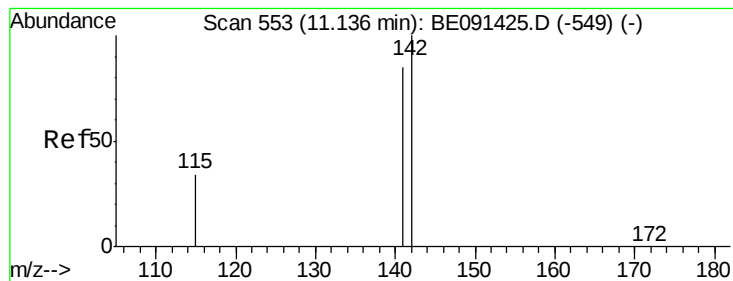


Abundance Ion 128.00 (127.70 to 128.70): BE091425.D (-444) (-)

Ion 129.00 (128.70 to 129.70): BE091425.D (-444) (-)

Ion 127.00 (126.70 to 127.70): BE091425.D (-444) (-)





#7

2-Methylnaphthalene

Concen: 0.13 ng

RT: 11.16 min Scan# 555

Delta R.T. 0.02 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

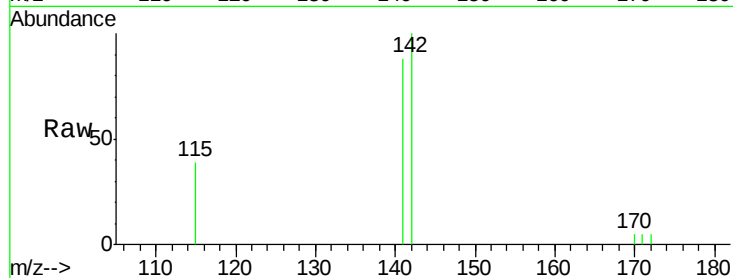
Tgt Ion:142 Resp: 2659

Ion Ratio Lower Upper

142 100

141 87.9 68.3 102.5

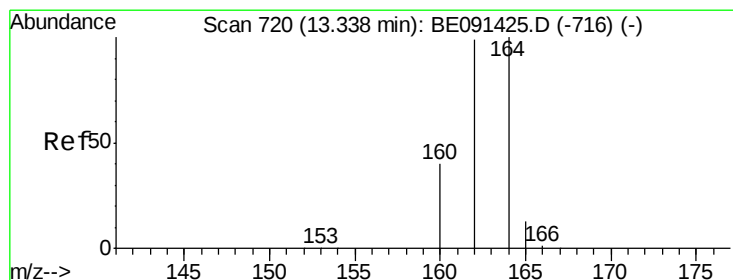
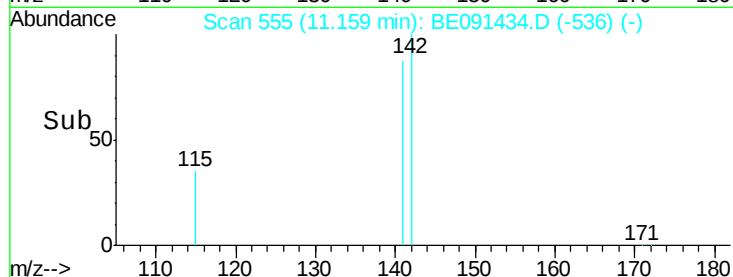
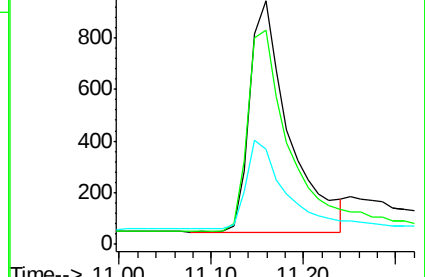
115 39.2 28.9 43.3



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



#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 720

Delta R.T. -0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

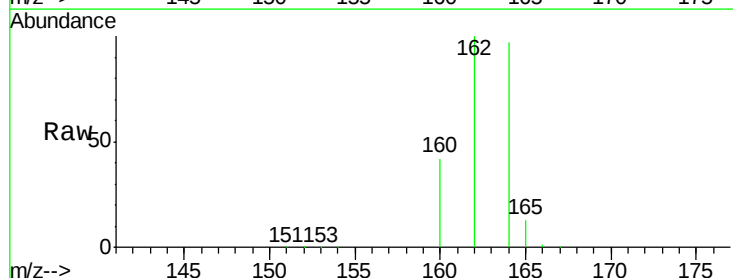
Tgt Ion:164 Resp: 94443

Ion Ratio Lower Upper

164 100

162 102.6 79.1 118.7

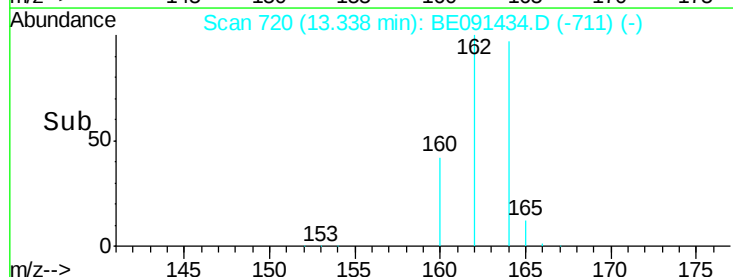
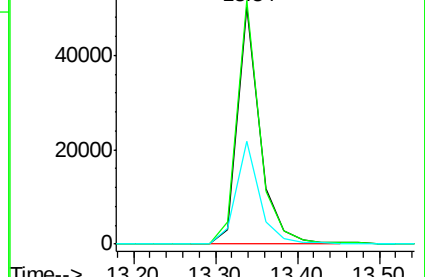
160 43.1 32.4 48.6

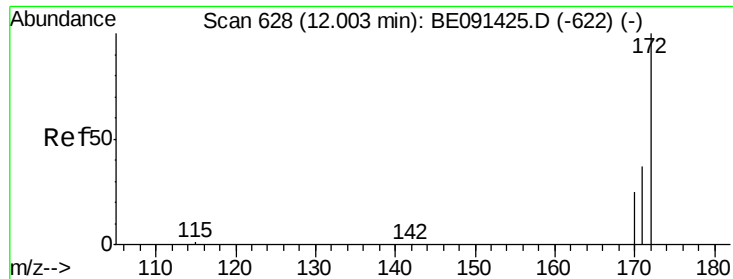


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.48 ng

RT: 12.00 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

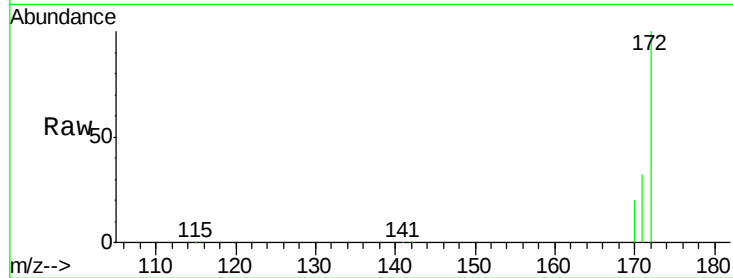
Tgt Ion:172 Resp: 102658

Ion Ratio Lower Upper

172 100

171 31.9 30.2 45.4

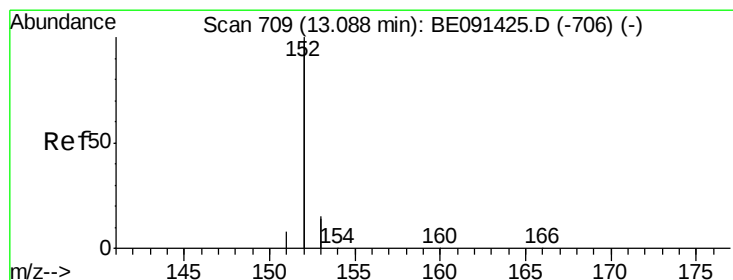
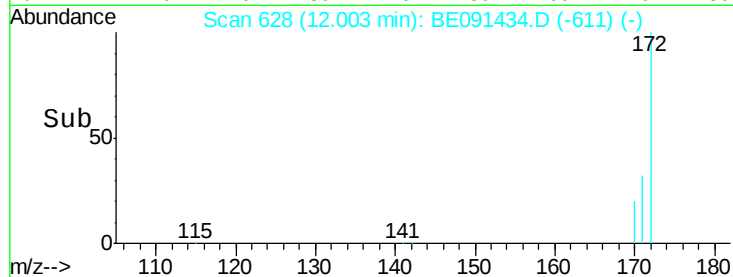
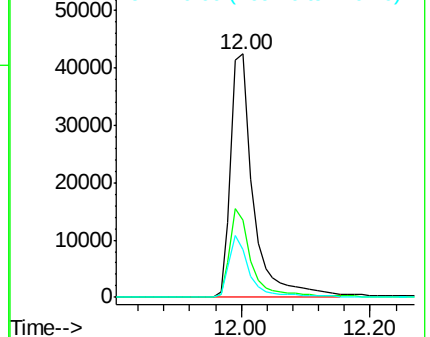
170 19.7 20.9 31.3#



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



#10

Acenaphthylene

Concen: 0.11 ng

RT: 13.09 min Scan# 709

Delta R.T. -0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

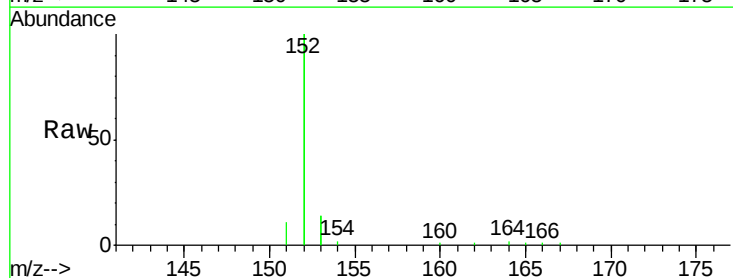
Tgt Ion:152 Resp: 17452

Ion Ratio Lower Upper

152 100

151 4.8 3.9 5.9

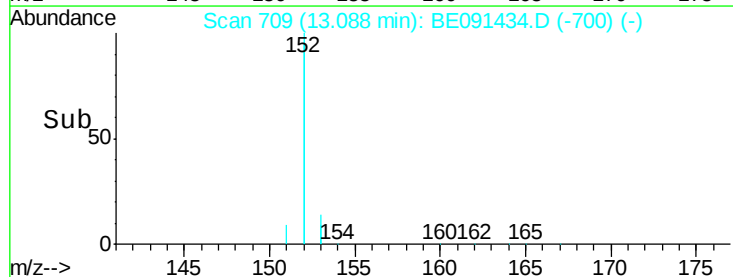
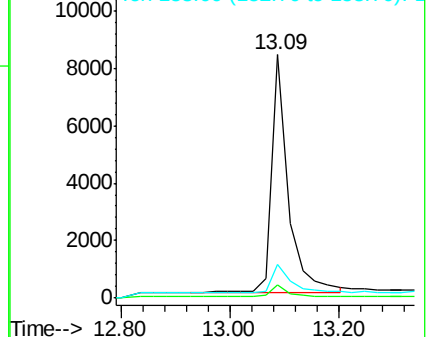
153 12.7 10.5 15.7

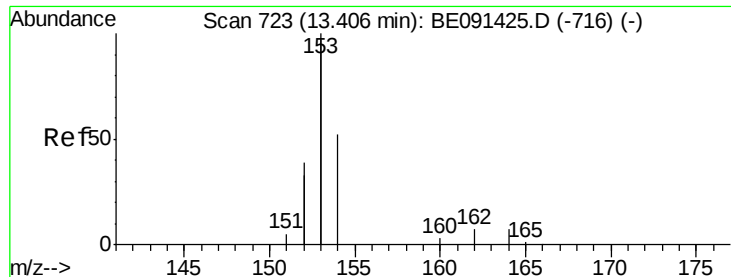


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

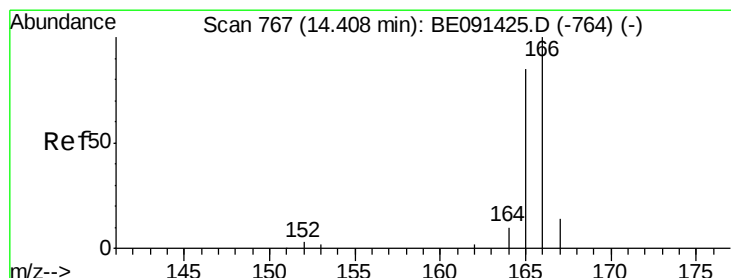
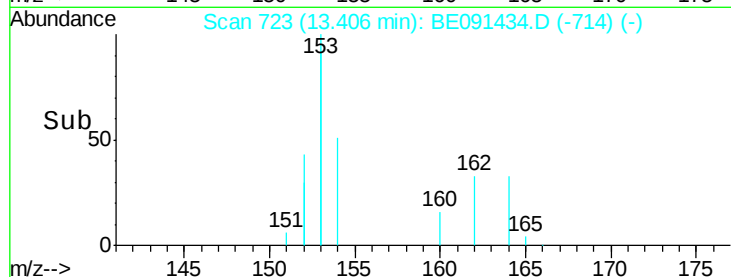
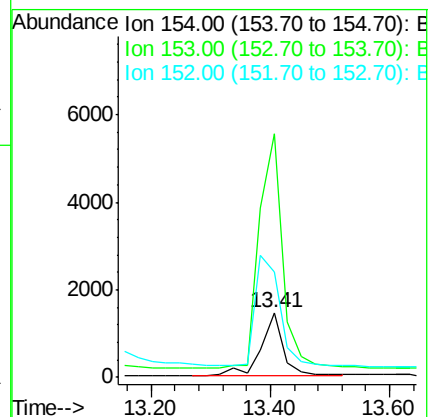
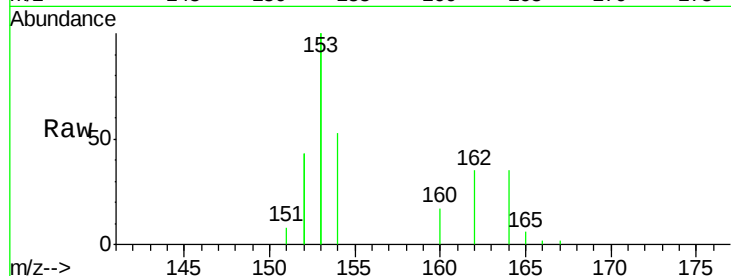




#11
Acenaphthene
Concen: 0.13 ng
RT: 13.41 min Scan# 723
Delta R.T. -0.00 min
Lab File: BE091434.D
Acq: 3 Mar 2016 22:10

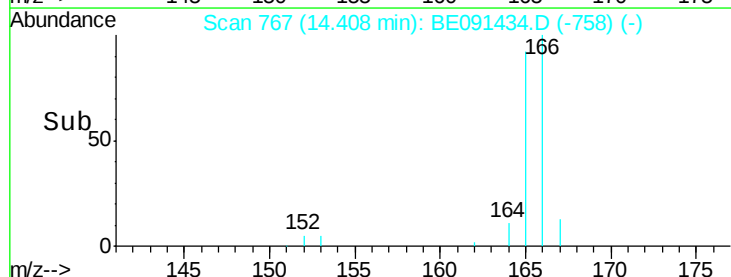
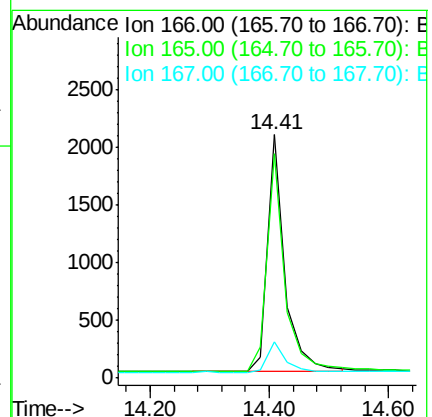
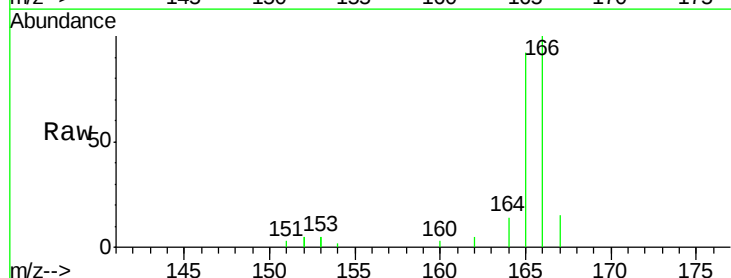
Instrument :
BNA_E
ClientSampleId :
MDL-03-S

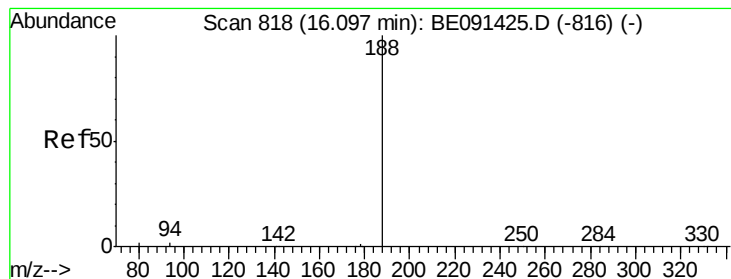
Tgt Ion:154 Resp: 3610
Ion Ratio Lower Upper
154 100
153 402.3 0.0 0.0#
152 0.0 0.0 0.0



#12
Fluorene
Concen: 0.12 ng
RT: 14.41 min Scan# 767
Delta R.T. -0.00 min
Lab File: BE091434.D
Acq: 3 Mar 2016 22:10

Tgt Ion:166 Resp: 4210
Ion Ratio Lower Upper
166 100
165 94.8 79.4 119.2
167 13.9 10.7 16.1





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.10 min Scan# 818

Delta R.T. 0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

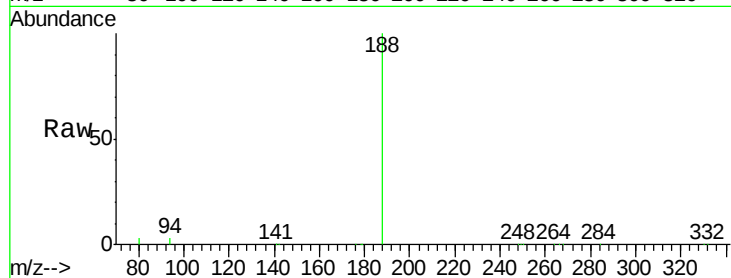
Tgt Ion:188 Resp: 170348

Ion Ratio Lower Upper

188 100

94 3.4 2.1 3.1#

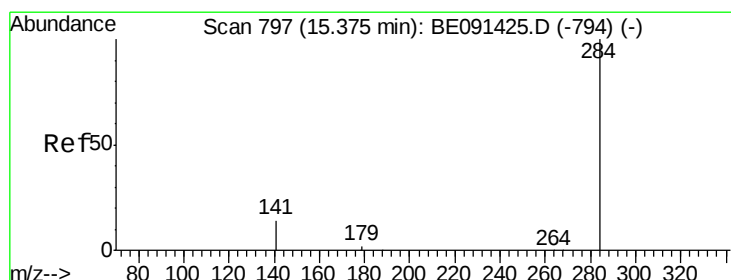
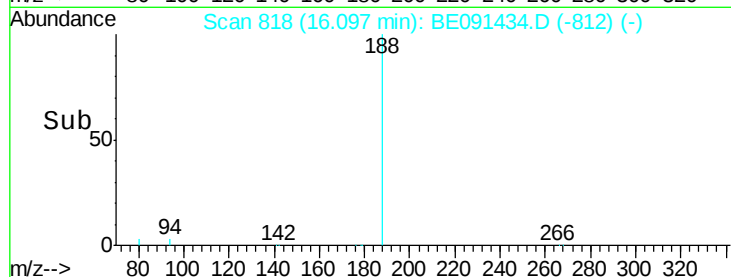
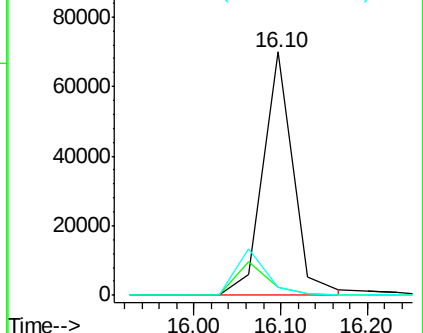
80 3.2 1.9 2.9#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#14

Hexachlorobenzene

Concen: 0.15 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

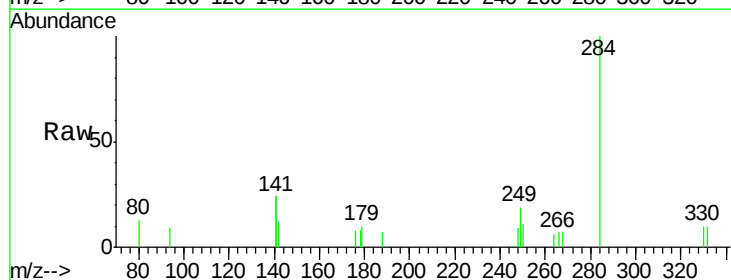
Tgt Ion:284 Resp: 1514

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

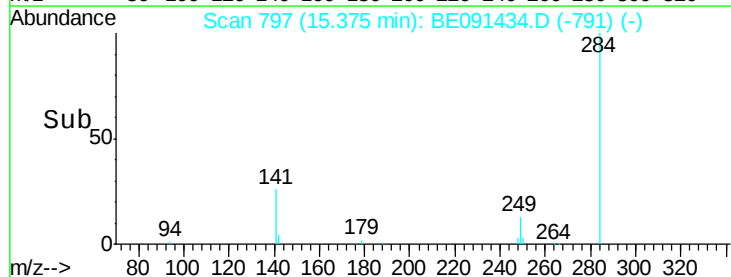
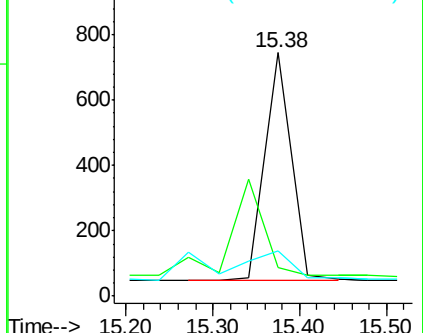
249 36.7 0.0 0.0#

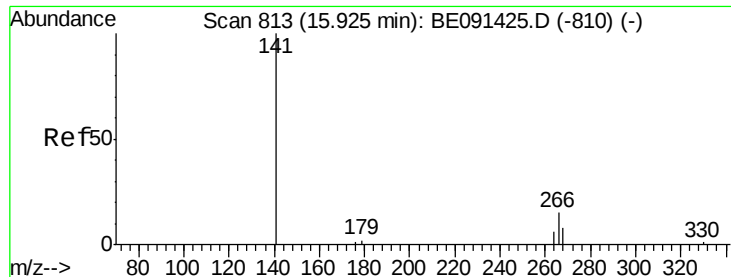


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: Below Cal

RT: 15.93 min Scan# 813

Delta R.T. 0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

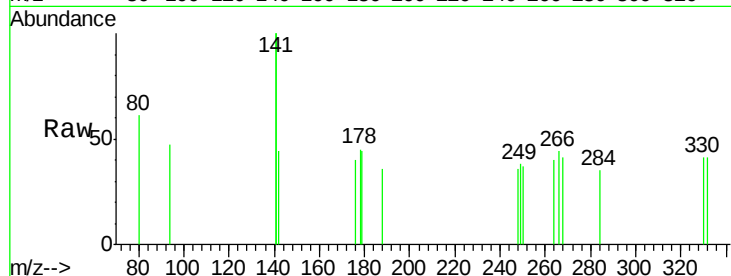
Tgt Ion:266 Resp: 91

Ion Ratio Lower Upper

266 100

268 93.4 73.0 109.6

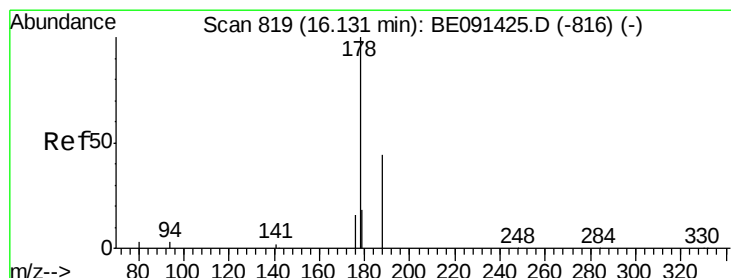
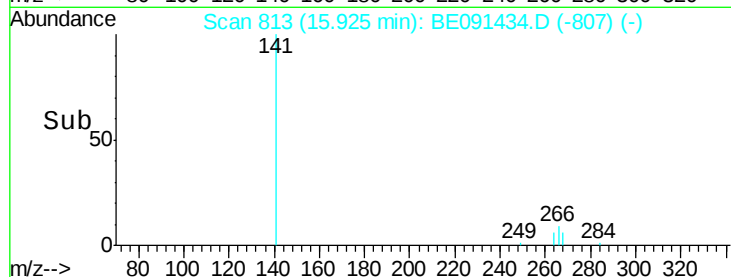
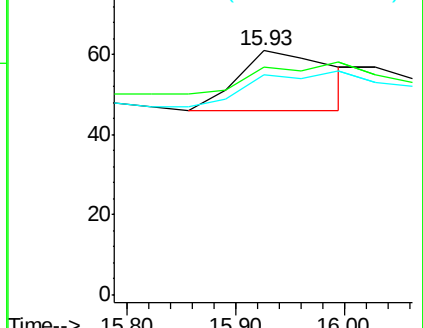
264 90.2 66.1 99.1



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#16

Phenanthrene

Concen: 0.13 ng

RT: 16.13 min Scan# 819

Delta R.T. 0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

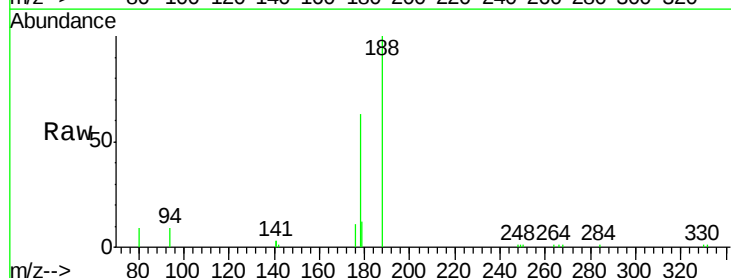
Tgt Ion:178 Resp: 7772

Ion Ratio Lower Upper

178 100

176 17.3 13.8 20.8

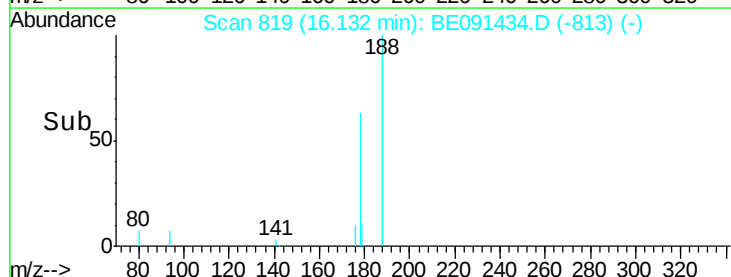
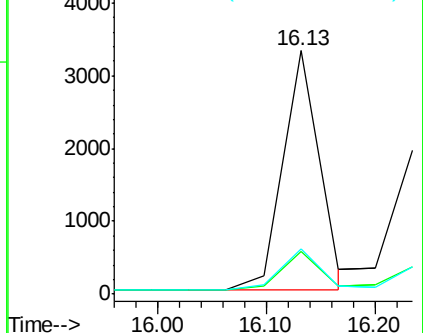
179 19.6 14.2 21.4

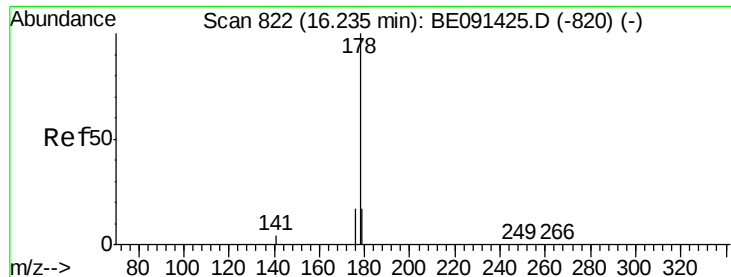


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

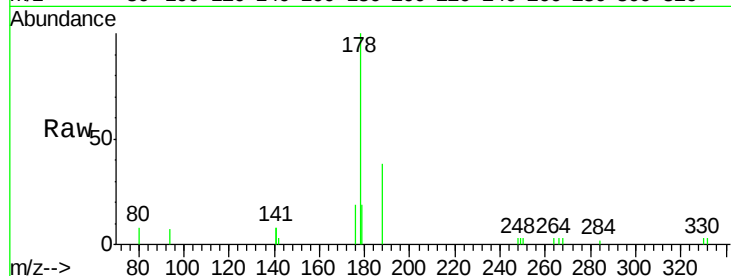




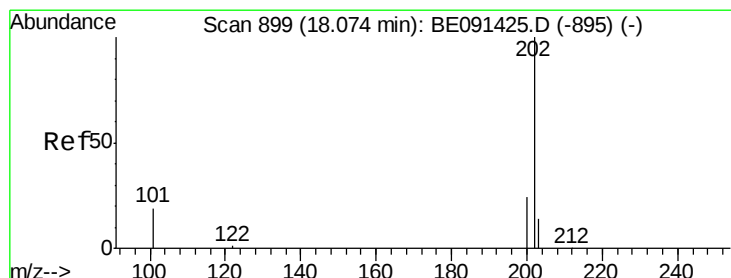
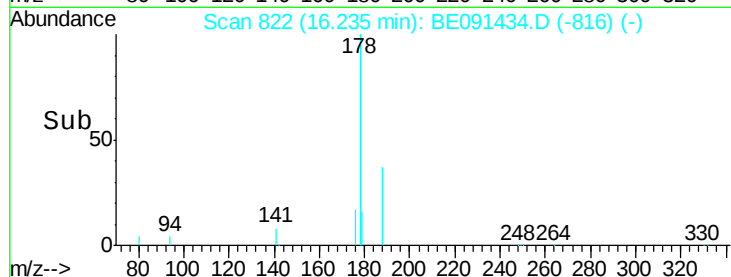
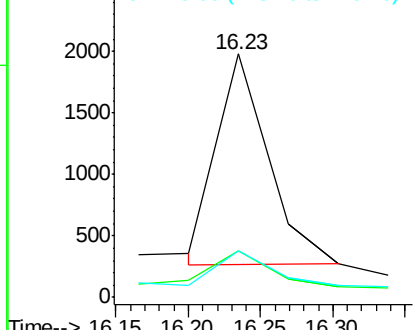
#17
 Anthracene
 Concen: 0.22 ng
 RT: 16.23 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: BE091434.D
 Acq: 3 Mar 2016 22:10

Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

Tgt Ion:178 Resp: 4220
 Ion Ratio Lower Upper
 178 100
 176 17.0 24.4 36.6#
 179 16.4 14.8 22.2

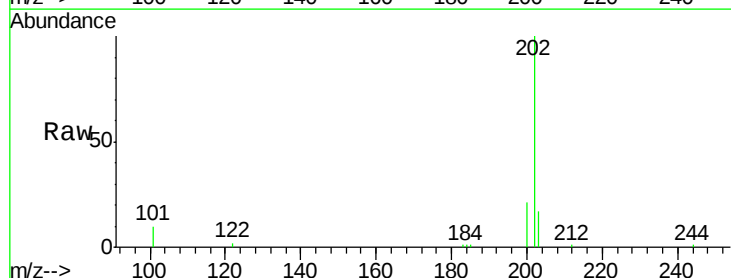


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

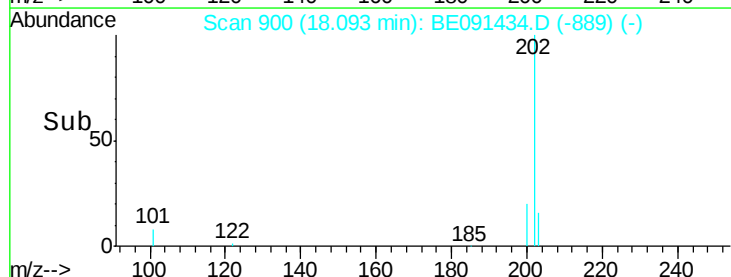
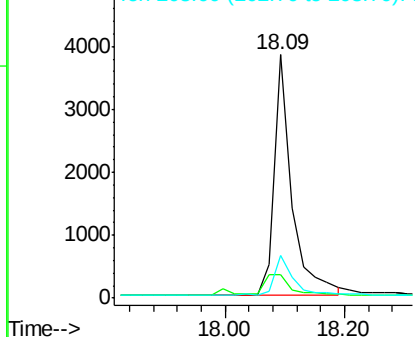


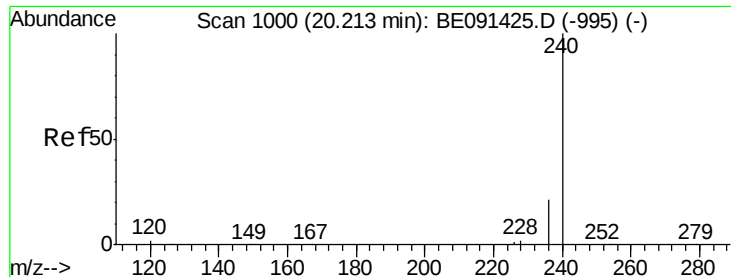
#18
 Fluoranthene
 Concen: 0.20 ng
 RT: 18.09 min Scan# 900
 Delta R.T. 0.02 min
 Lab File: BE091434.D
 Acq: 3 Mar 2016 22:10

Tgt Ion:202 Resp: 7807
 Ion Ratio Lower Upper
 202 100
 101 11.6 11.0 16.6
 203 17.4 13.7 20.5



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





#19

Chrysene-d12

Concen: 5.00 ng

RT: 20.21 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

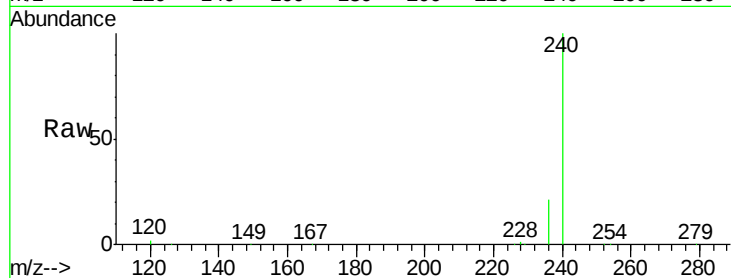
Tgt Ion:240 Resp: 248523

Ion Ratio Lower Upper

240 100

120 2.0 1.4 2.0

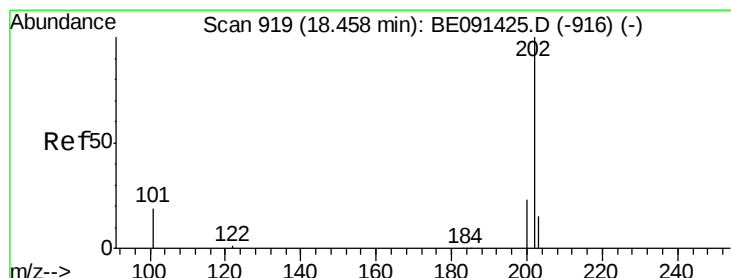
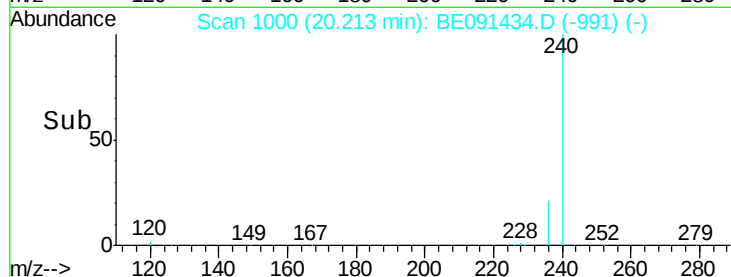
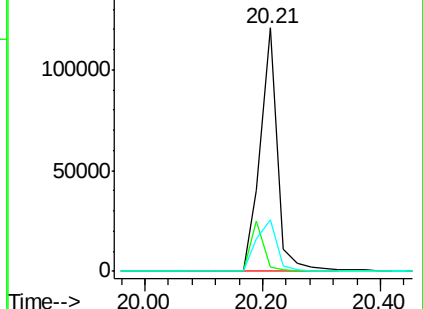
236 21.2 16.7 25.1



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: 0.12 ng

RT: 18.48 min Scan# 920

Delta R.T. 0.02 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

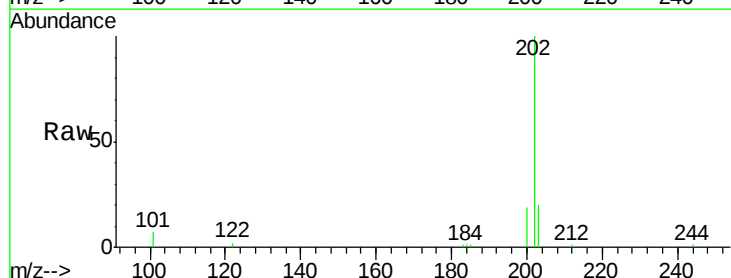
Tgt Ion:202 Resp: 8159

Ion Ratio Lower Upper

202 100

200 20.3 16.5 24.7

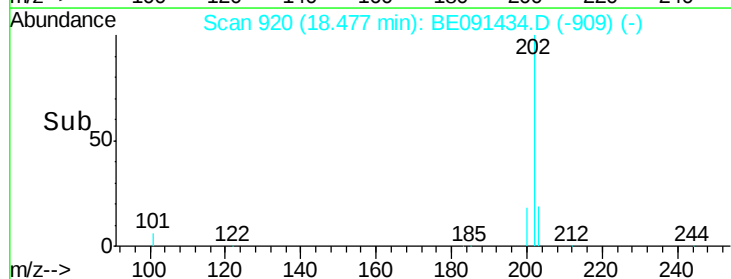
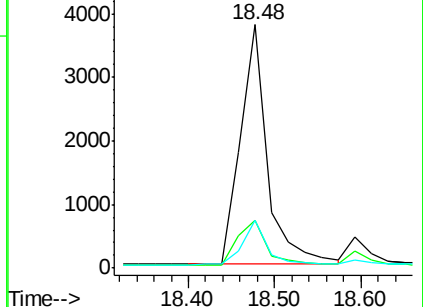
203 17.4 13.8 20.6

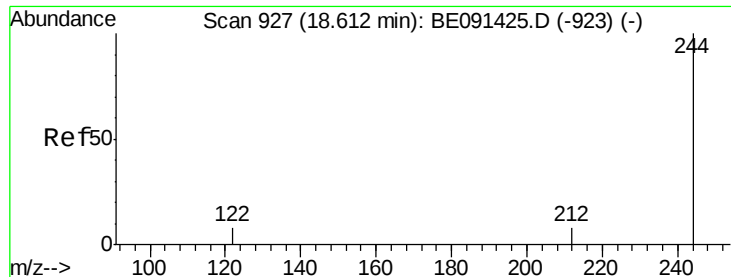


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

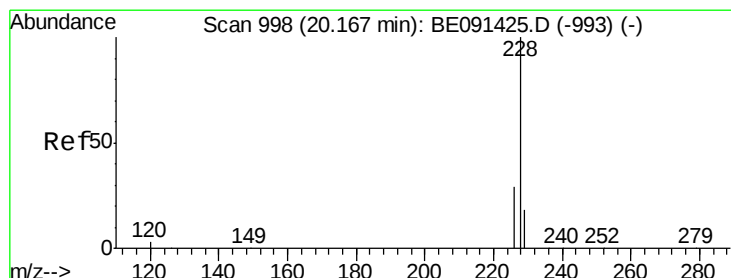
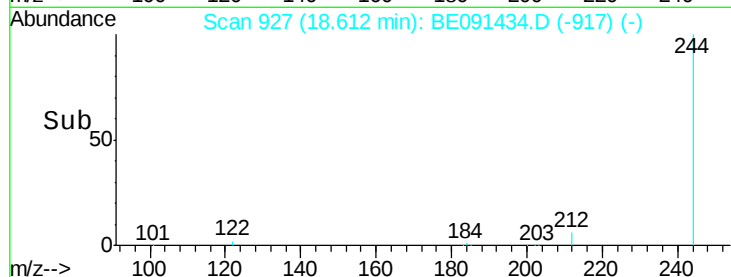
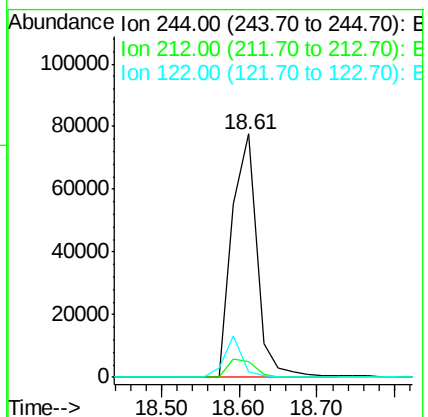
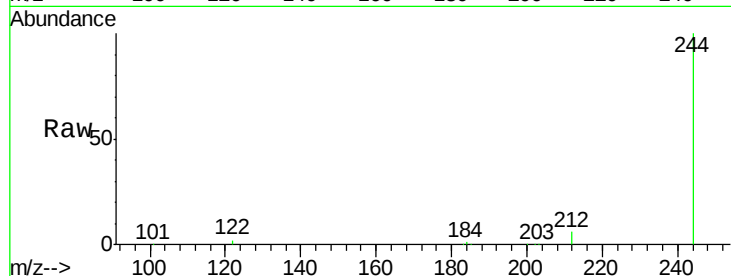




#21
 Terphenyl-d14
 Concen: 4.60 ng
 RT: 18.61 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: BE091434.D
 Acq: 3 Mar 2016 22:10

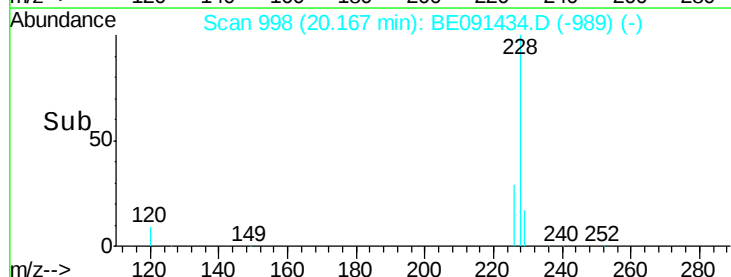
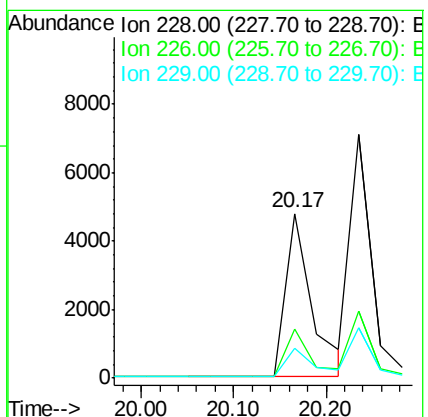
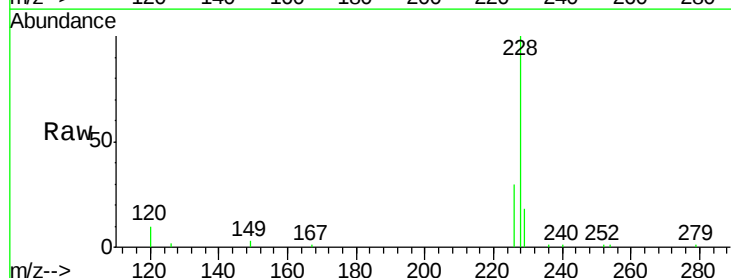
Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

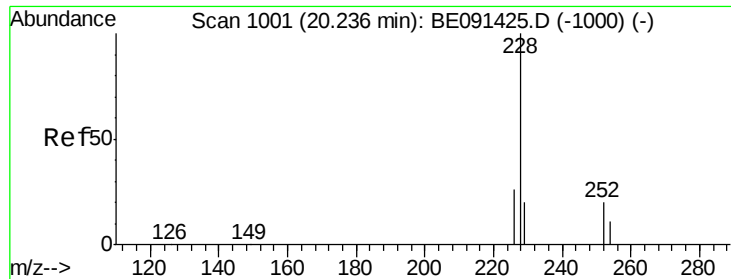
Tgt Ion: 244 Resp: 174019
 Ion Ratio Lower Upper
 244 100
 212 6.5 7.0 10.6#
 122 2.5 6.8 10.2#



#22
 Benzo(a)anthracene
 Concen: 0.11 ng
 RT: 20.17 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: BE091434.D
 Acq: 3 Mar 2016 22:10

Tgt Ion: 228 Resp: 9398
 Ion Ratio Lower Upper
 228 100
 226 29.7 23.1 34.7
 229 18.1 14.5 21.7

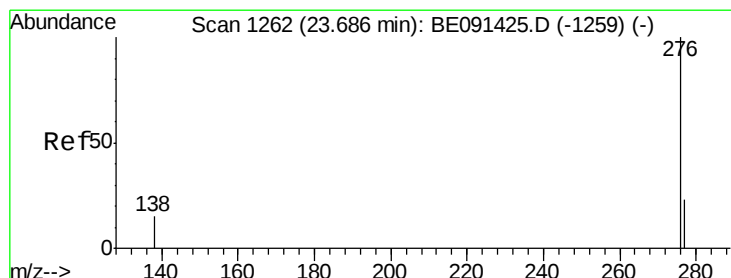
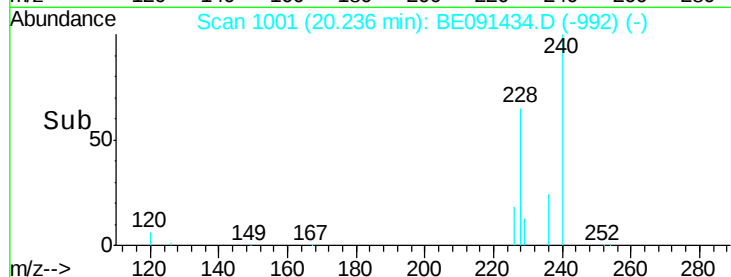
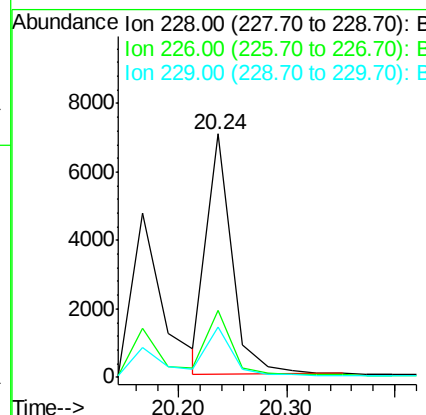
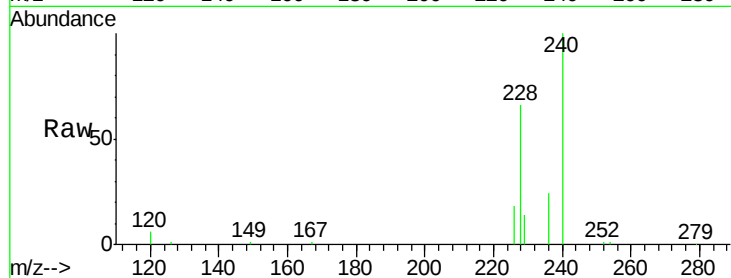




#23
Chrysene
Concen: 0.12 ng
RT: 20.24 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091434.D
Acq: 3 Mar 2016 22:10

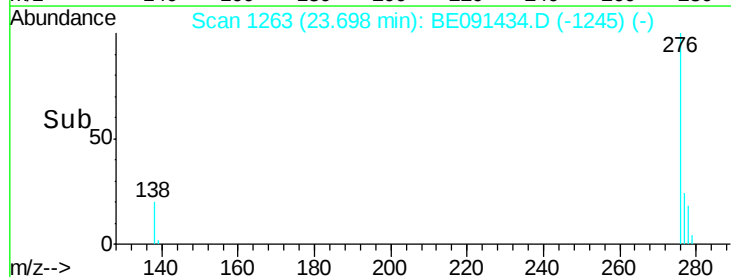
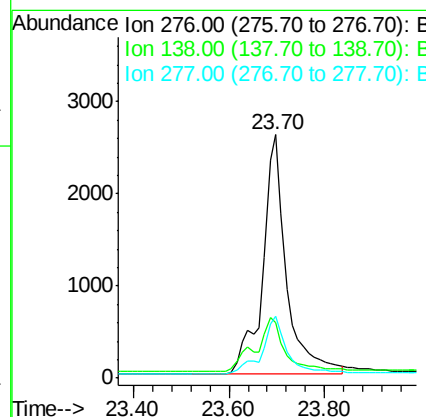
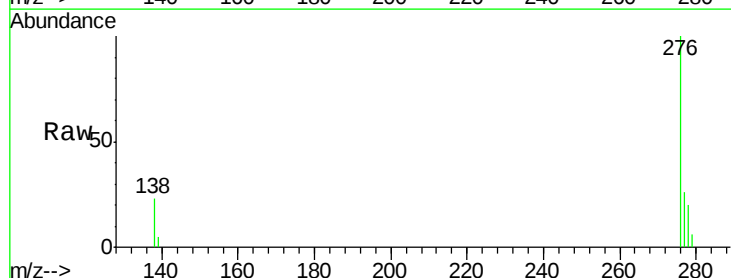
Instrument :
BNA_E
ClientSampled :
MDL-03-S

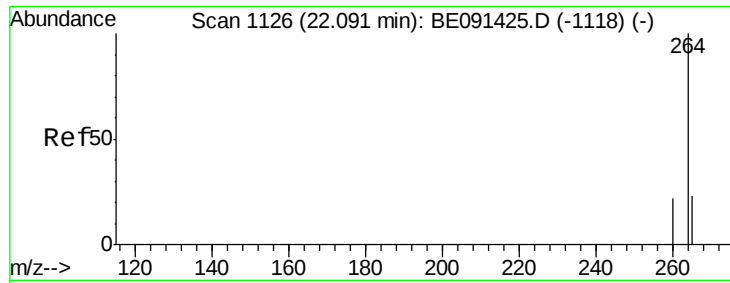
Tgt Ion: 228 Resp: 11381
Ion Ratio Lower Upper
228 100
226 27.6 22.0 33.0
229 20.8 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.12 ng
RT: 23.70 min Scan# 1263
Delta R.T. 0.01 min
Lab File: BE091434.D
Acq: 3 Mar 2016 22:10

Tgt Ion: 276 Resp: 8973
Ion Ratio Lower Upper
276 100
138 27.6 16.1 24.1#
277 25.0 22.9 34.3

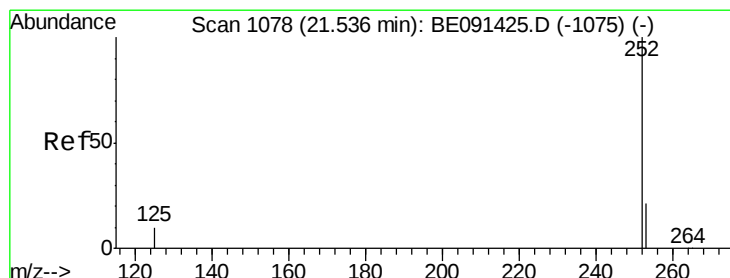
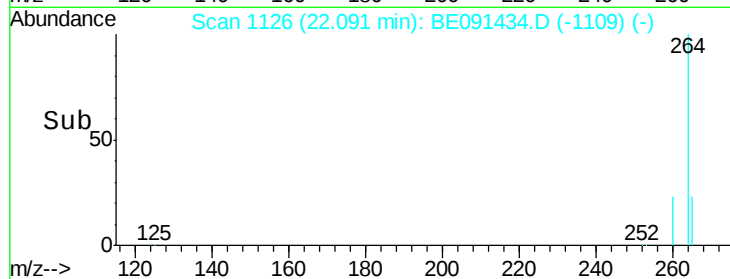
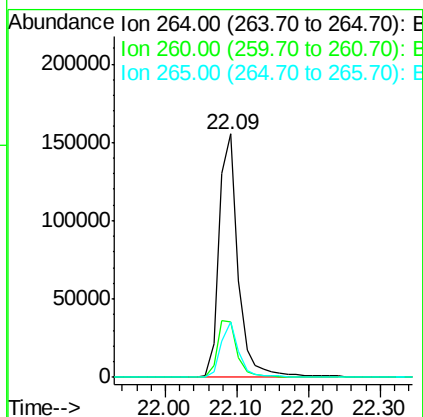
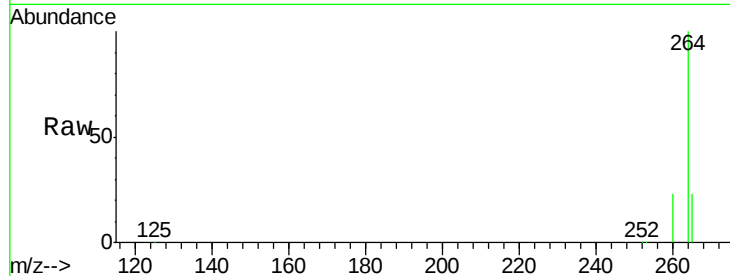




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.09 min Scan# 1126
 Delta R.T. -0.00 min
 Lab File: BE091434.D
 Acq: 3 Mar 2016 22:10

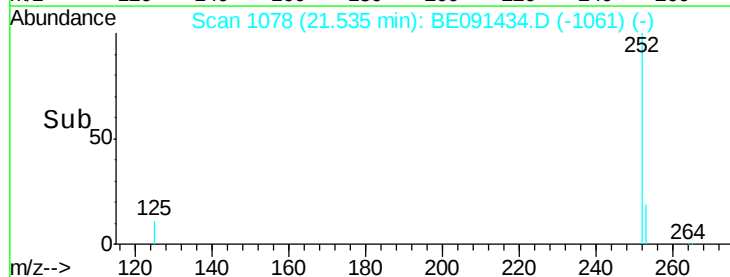
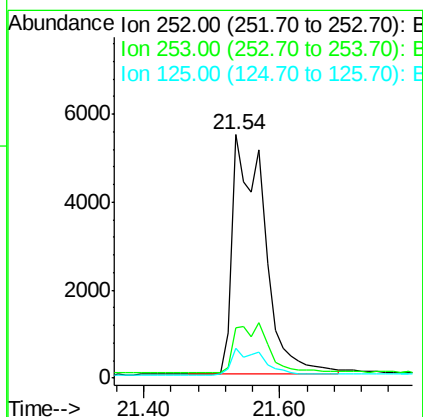
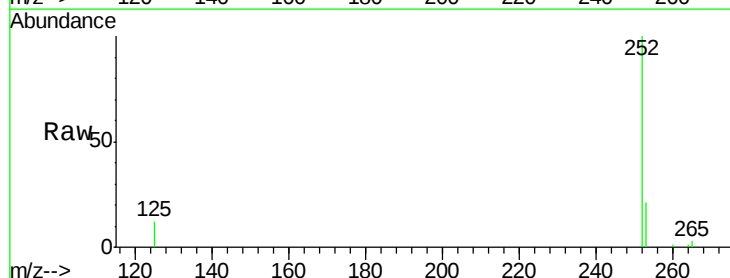
Instrument :
 BNA_E
 ClientSampleId :
 MDL-03-S

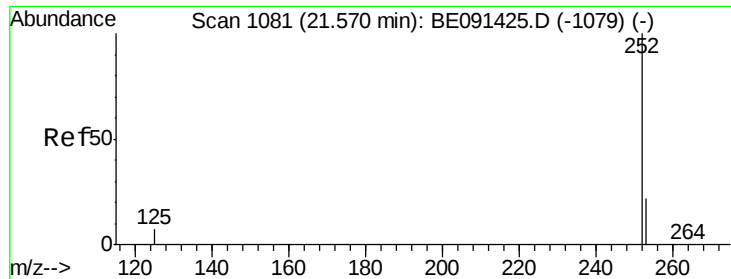
Tgt Ion:264 Resp: 287113
 Ion Ratio Lower Upper
 264 100
 260 23.0 18.0 27.0
 265 23.0 18.2 27.4



#26
 Benzo(b)fluoranthene
 Concen: 0.22 ng
 RT: 21.54 min Scan# 1078
 Delta R.T. -0.00 min
 Lab File: BE091434.D
 Acq: 3 Mar 2016 22:10

Tgt Ion:252 Resp: 17821
 Ion Ratio Lower Upper
 252 100
 253 20.6 17.0 25.4
 125 12.1 8.3 12.5

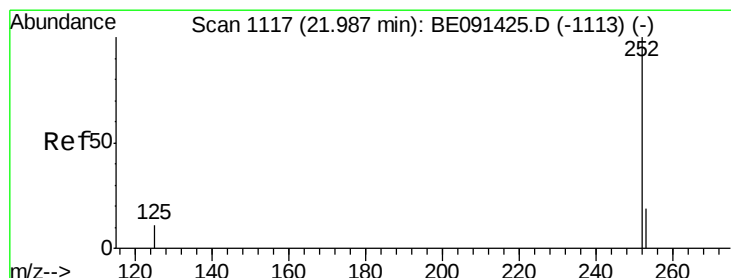
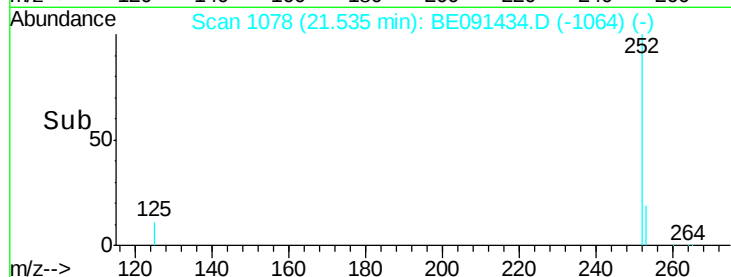
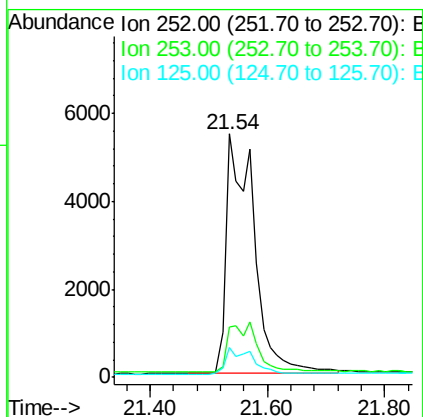
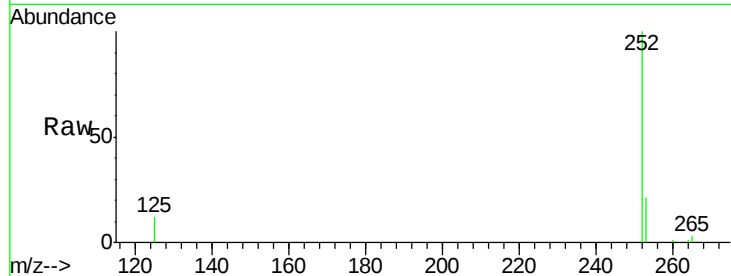




#27
Benzo(k)fluoranthene
Concen: 0.23 ng
RT: 21.54 min Scan# 1078
Delta R.T. -0.03 min
Lab File: BE091434.D
Acq: 3 Mar 2016 22:10

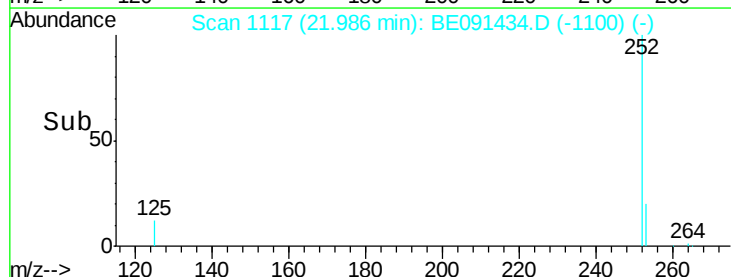
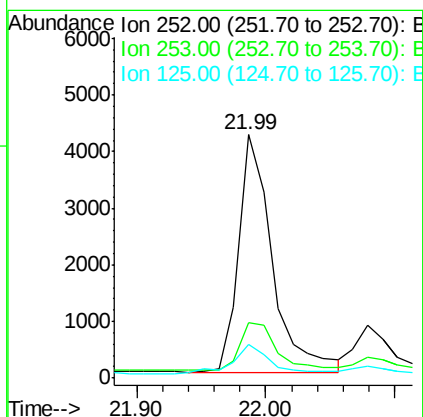
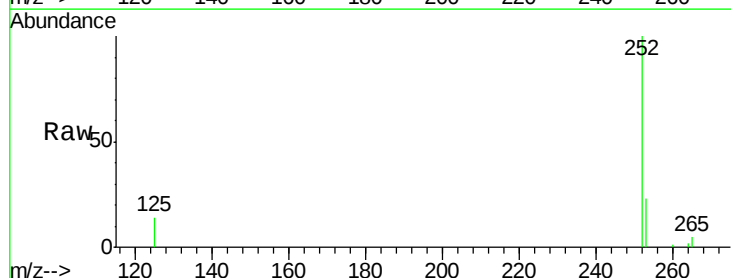
Instrument :
BNA_E
ClientSampleId :
MDL-03-S

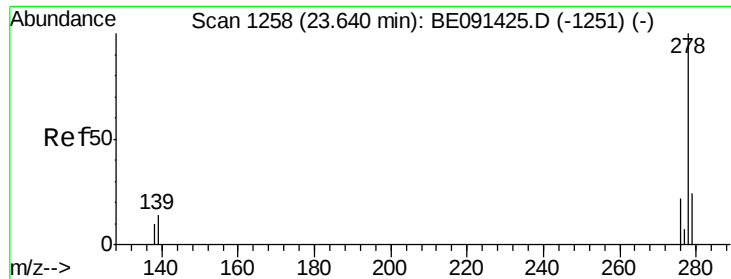
Tgt Ion: 252 Resp: 18010
Ion Ratio Lower Upper
252 100
253 20.6 19.5 29.3
125 12.1 7.3 10.9#



#28
Benzo(a)pyrene
Concen: 0.11 ng
RT: 21.99 min Scan# 1117
Delta R.T. -0.00 min
Lab File: BE091434.D
Acq: 3 Mar 2016 22:10

Tgt Ion: 252 Resp: 7614
Ion Ratio Lower Upper
252 100
253 22.6 16.2 24.4
125 13.6 9.6 14.4





#29

Dibenzo(a,h)anthracene

Concen: 0.11 ng

RT: 23.65 min Scan# 1259

Delta R.T. 0.01 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

Instrument :

BNA_E

ClientSampleId :

MDL-03-S

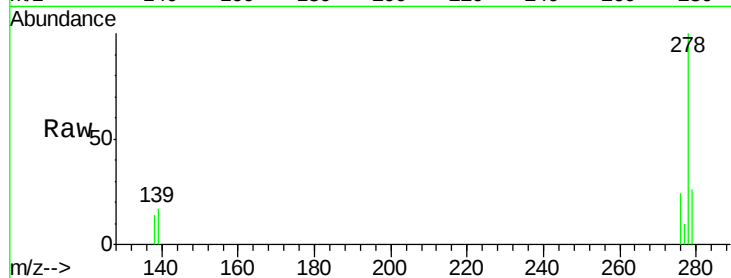
Tgt Ion: 278 Resp: 7047

Ion Ratio Lower Upper

278 100

139 17.4 12.1 18.1

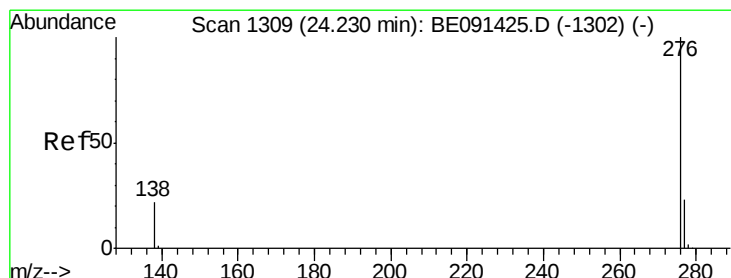
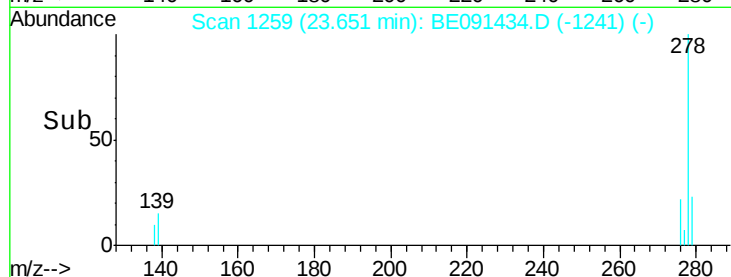
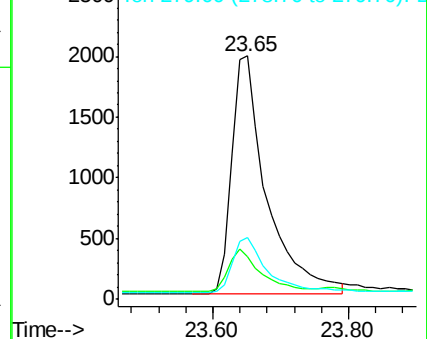
279 25.6 19.4 29.0



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: 0.11 ng

RT: 24.24 min Scan# 1310

Delta R.T. 0.01 min

Lab File: BE091434.D

Acq: 3 Mar 2016 22:10

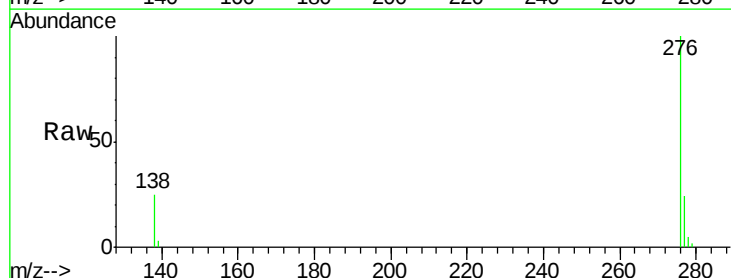
Tgt Ion: 276 Resp: 8193

Ion Ratio Lower Upper

276 100

277 24.3 19.0 28.6

138 24.6 18.2 27.4



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

