

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091438.D
 Acq On : 4 Mar 2016 00:39
 Operator : UM/IZ
 Sample : MDL-07-S
 Misc : 0.08PPM
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

Quant Time: Mar 04 08:07:04 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	31281	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	135331	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	84738	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	162066	5.00	ng	0.00
19) Chrysene-d12	20.21	240	218322	5.00	ng	0.00
25) Perylene-d12	22.09	264	256812	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.16	82	30542	3.66	ng	-0.02
9) 2-Fluorobiphenyl	12.00	172	89303	4.34	ng	0.00
21) Terphenyl-d14	18.59	244	150008	4.52	ng	-0.02

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.00	88	404	0.15	ng	# 72
3) n-Nitrosodimethylamine	3.51	42	7	0.04	ng	# 1
6) Naphthalene	9.57	128	4010	0.13	ng	94
7) 2-Methylnaphthalene	11.16	142	2370m	0.13	ng	
10) Acenaphthylene	13.09	152	15236	0.11	ng	100
11) Acenaphthene	13.41	154	3206	0.13	ng	# 100
12) Fluorene	14.41	166	3803	0.12	ng	98
14) Hexachlorobenzene	15.38	284	1421	0.15	ng	# 100
15) Pentachlorophenol	15.93	266	56	Below Cal		91
16) Phenanthrene	16.13	178	7524	0.13	ng	99
17) Anthracene	16.23	178	5501m	0.23	ng	
18) Fluoranthene	18.09	202	7035	0.19	ng	98
20) Pyrene	18.48	202	7404	0.12	ng	100
22) Benzo(a)anthracene	20.17	228	8691	0.12	ng	98
23) Chrysene	20.24	228	9982	0.12	ng	97
24) Indeno(1,2,3-cd)pyrene	23.70	276	6807m	0.10	ng	
26) Benzo(b)fluoranthene	21.54	252	9091m	0.13	ng	
27) Benzo(k)fluoranthene	21.57	252	7397m	0.11	ng	
28) Benzo(a)pyrene	21.99	252	6521	0.11	ng	95
29) Dibenzo(a,h)anthracene	23.65	278	6171	0.10	ng	# 93
30) Benzo(g,h,i)perylene	24.24	276	7248	0.11	ng	95

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 245

Delta R.T. -0.02 min

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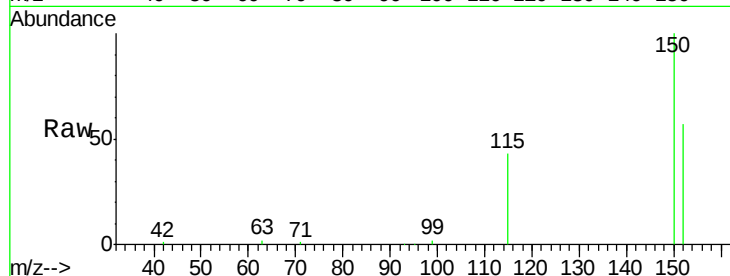
Tgt Ion:152 Resp: 31281

Ion Ratio Lower Upper

152 100

150 174.1 115.0 172.4#

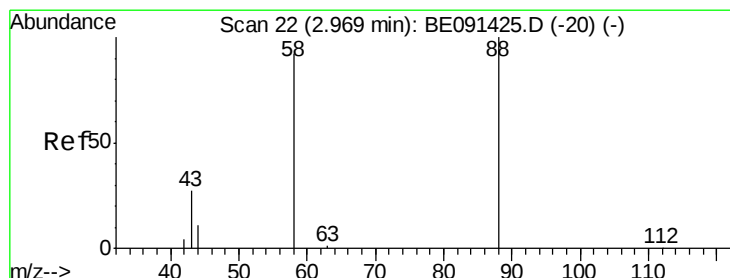
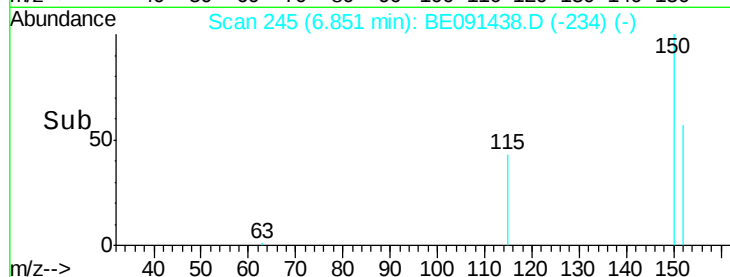
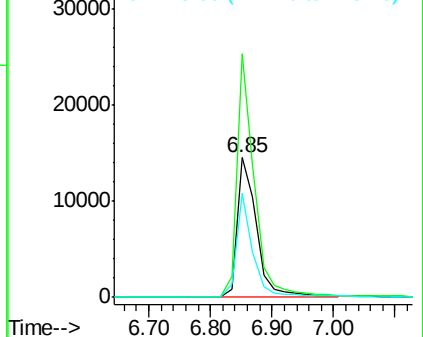
115 74.6 42.2 63.4#



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: 0.15 ng

RT: 3.00 min Scan# 24

Delta R.T. 0.04 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

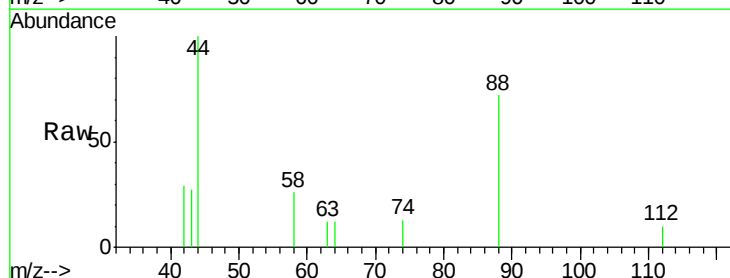
Tgt Ion: 88 Resp: 404

Ion Ratio Lower Upper

88 100

58 89.4 97.9 146.9#

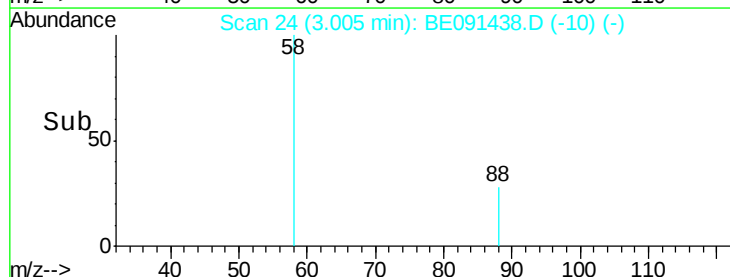
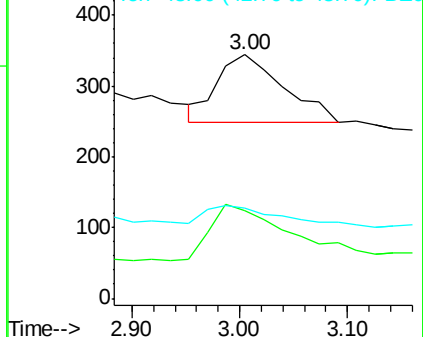
43 22.0 29.0 43.4#

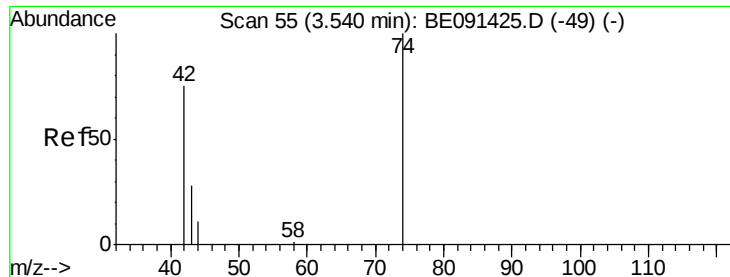


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 0.04 ng

RT: 3.51 min Scan# 53

Delta R.T. -0.03 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

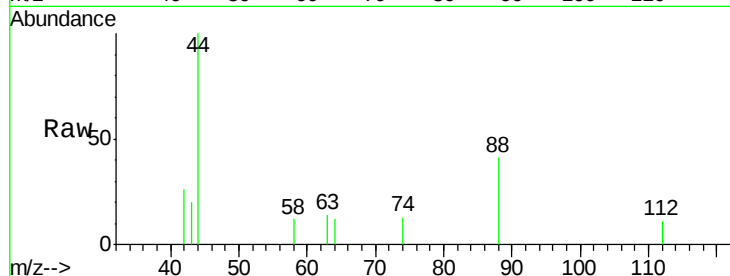
Instrument :

BNA_E

ClientSampleId :

MDL-07-S

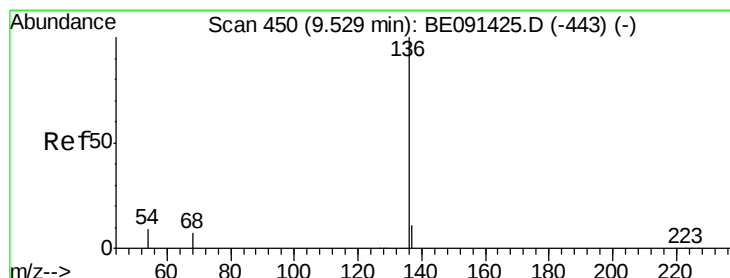
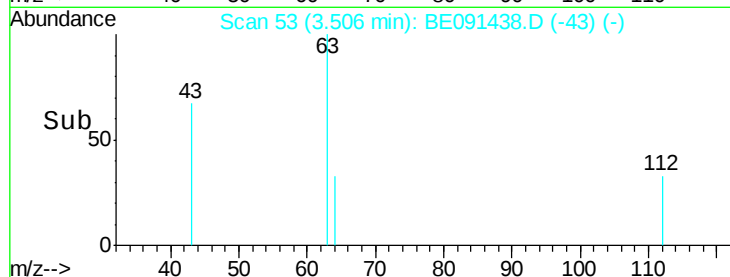
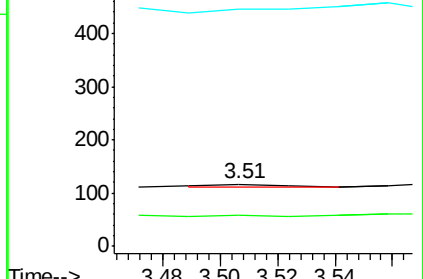
Tgt Ion:	42	Resp:	7
Ion	Ratio	Lower	Upper
42	100		
74	0.0	93.8	140.6#
44	0.0	0.0	0.0



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

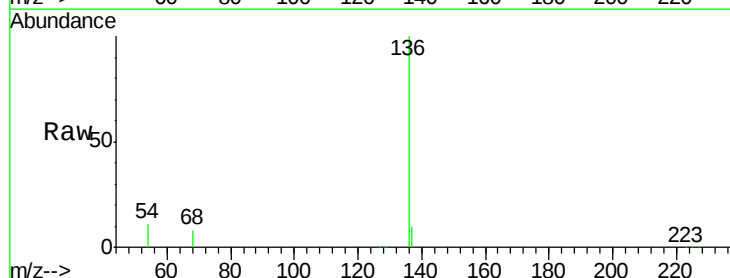
RT: 9.53 min Scan# 450

Delta R.T. 0.00 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

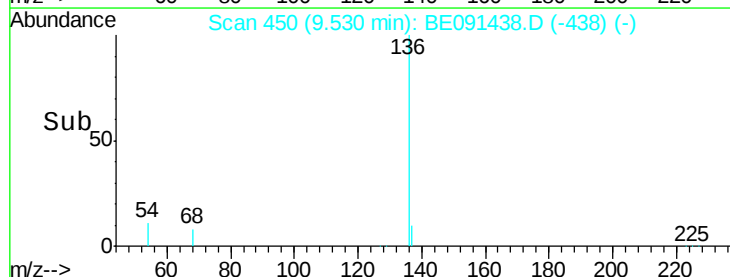
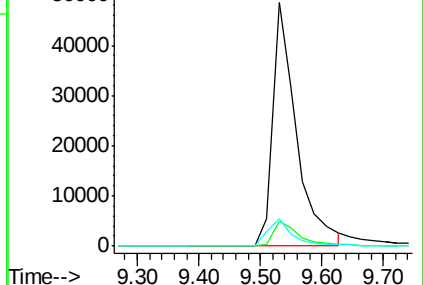
Tgt Ion:	136	Resp:	135331
Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.7	13.1
54	11.0	6.9	10.3#

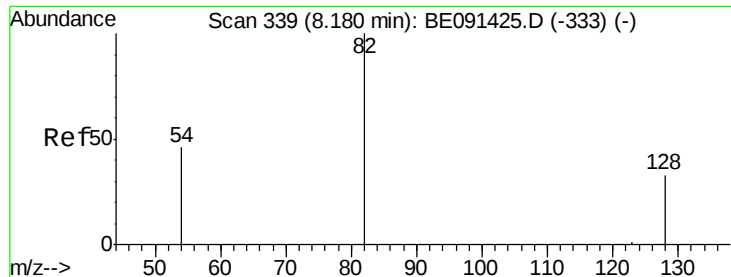


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Nitrobenzene-d5

Concen: 3.66 ng

RT: 8.16 min Scan# 337

Delta R.T. -0.02 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

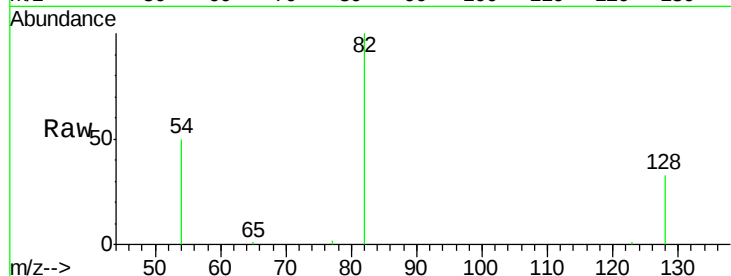
Tgt Ion: 82 Resp: 30542

Ion Ratio Lower Upper

82 100

128 33.4 30.0 45.0

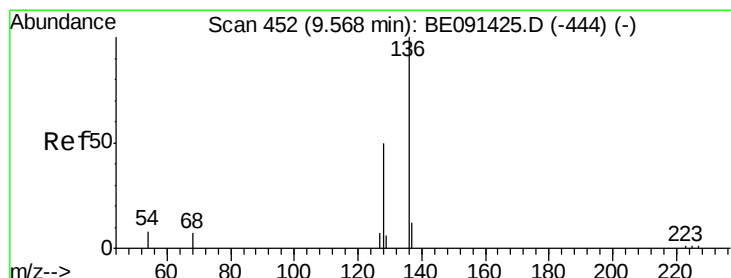
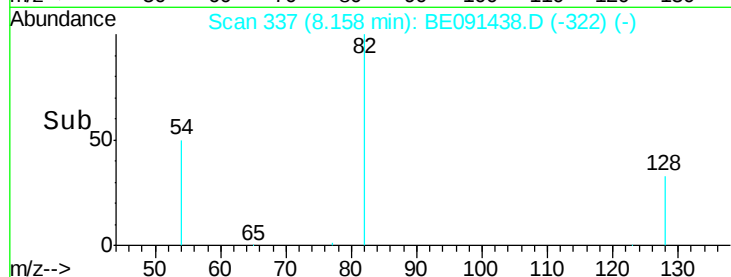
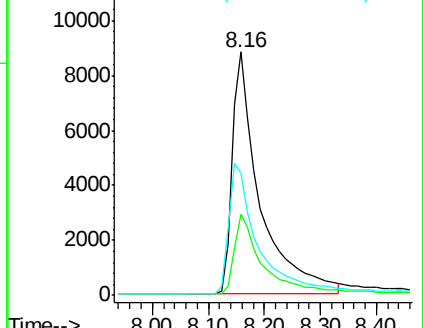
54 50.2 41.5 62.3



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#6

Naphthalene

Concen: 0.13 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

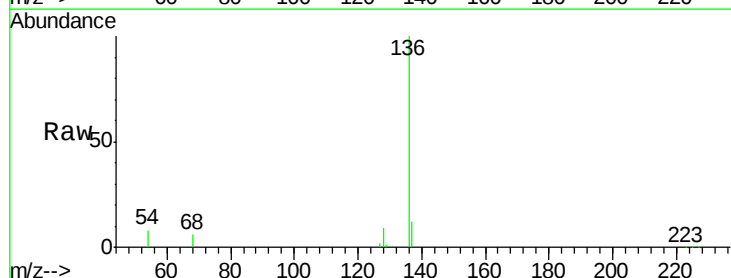
Tgt Ion: 128 Resp: 4010

Ion Ratio Lower Upper

128 100

129 14.0 9.5 14.3

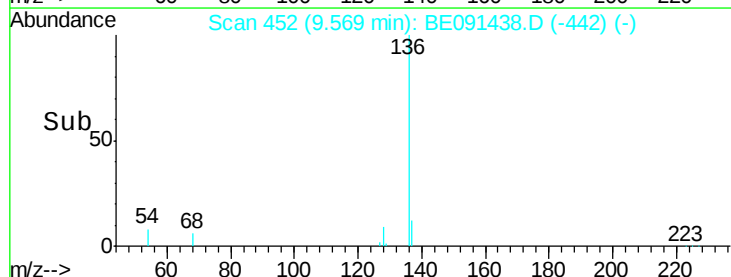
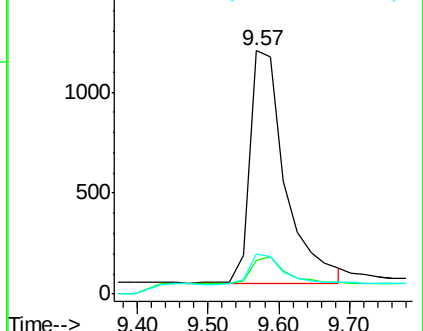
127 16.7 11.4 17.0

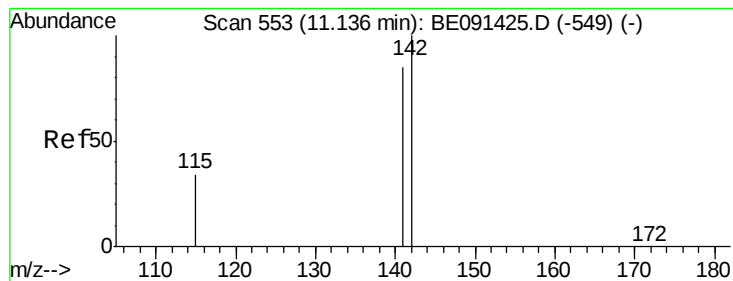


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#7

2-Methylnaphthalene

Concen: 0.13 ng m

RT: 11.16 min Scan# 555

Delta R.T. 0.02 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

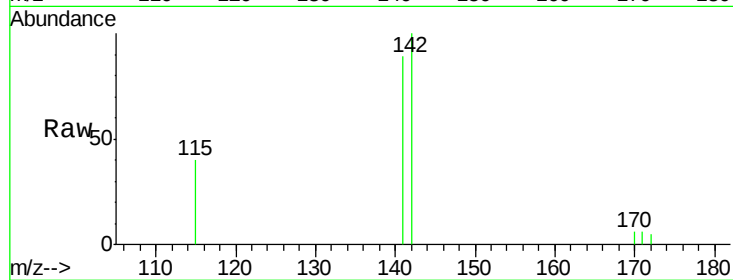
Tgt Ion:142 Resp: 2370

Ion Ratio Lower Upper

142 100

141 88.9 68.3 102.5

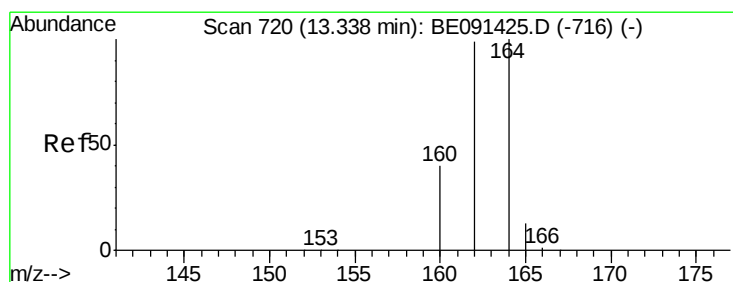
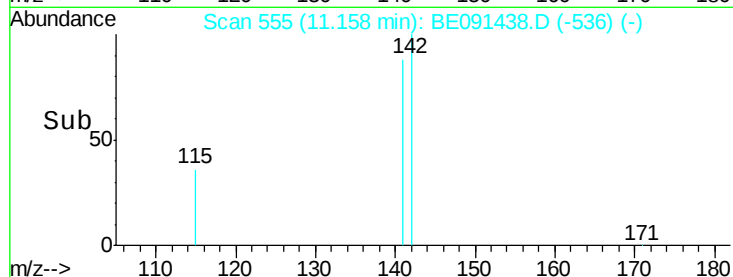
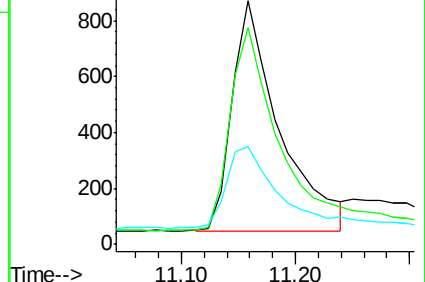
115 40.2 28.9 43.3



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: BE091438.D

Acq: 4 Mar 2016 00:39

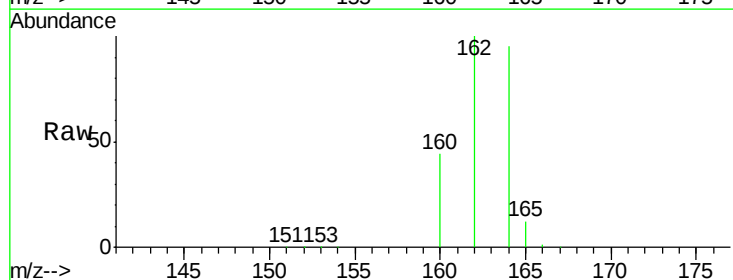
Tgt Ion:164 Resp: 84738

Ion Ratio Lower Upper

164 100

162 105.4 79.1 118.7

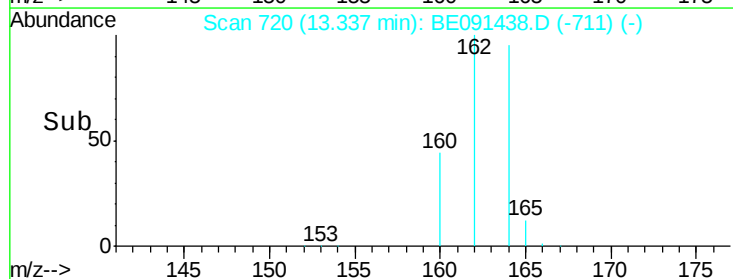
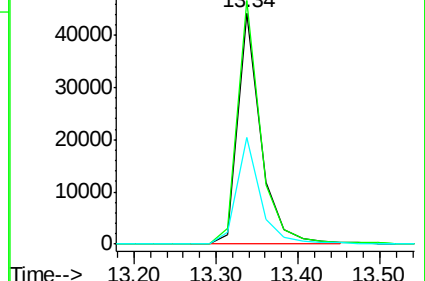
160 46.1 32.4 48.6

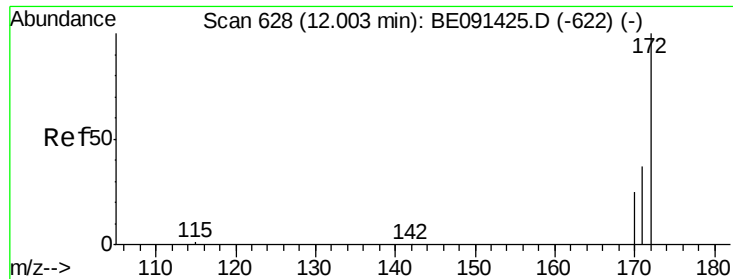


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 4.34 ng

RT: 12.00 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

BNA_E

ClientSampleId :

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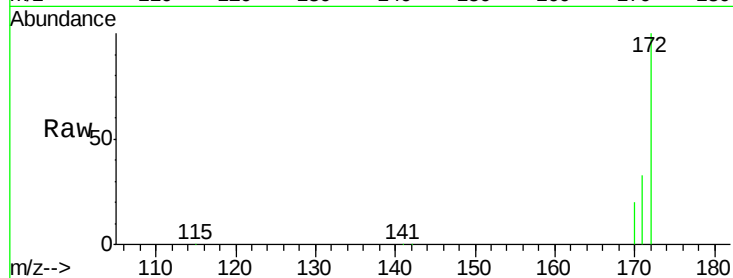
Tgt Ion:172 Resp: 89303

Ion Ratio Lower Upper

172 100

171 32.9 30.2 45.4

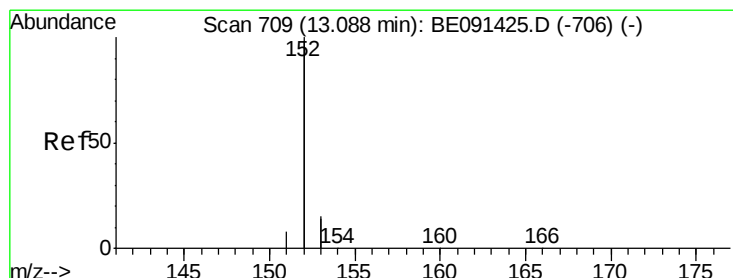
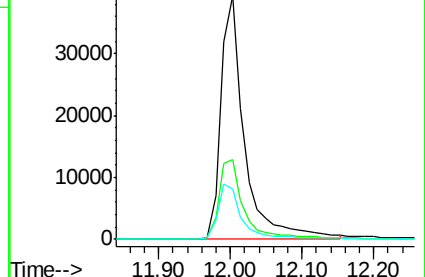
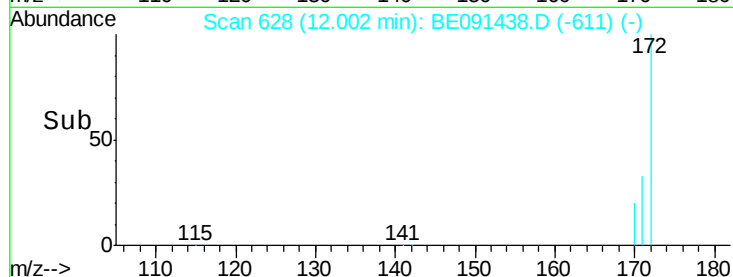
170 20.5 20.9 31.3#



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: BE091438.D

Acq: 4 Mar 2016 00:39

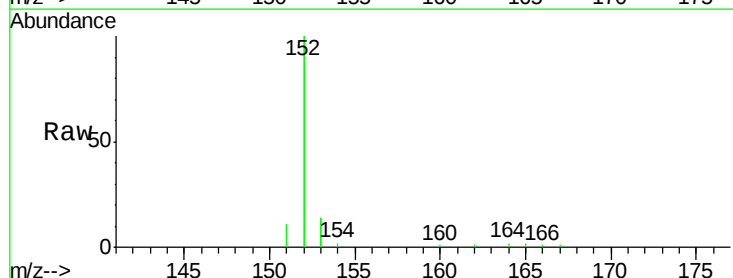
Tgt Ion:152 Resp: 15236

Ion Ratio Lower Upper

152 100

151 4.9 3.9 5.9

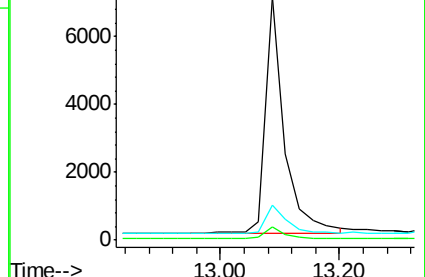
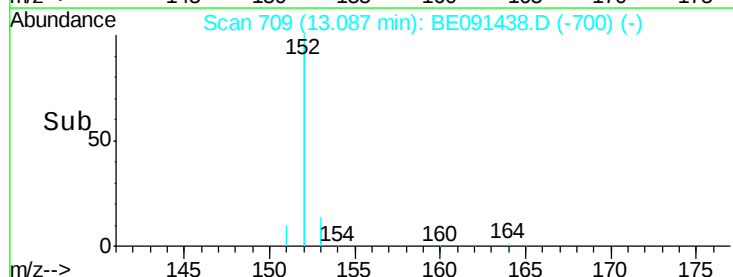
153 13.2 10.5 15.7

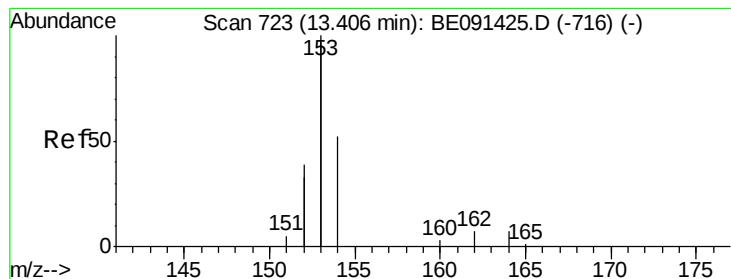


Abundance Ion 152.00 (151.70 to 152.70): E

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: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

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ClientSampleId :

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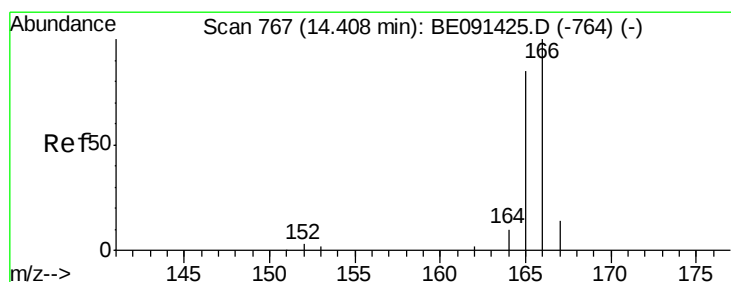
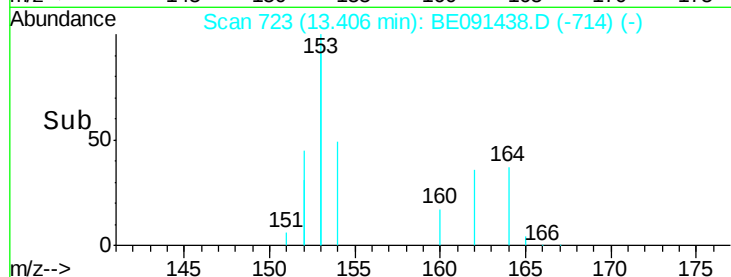
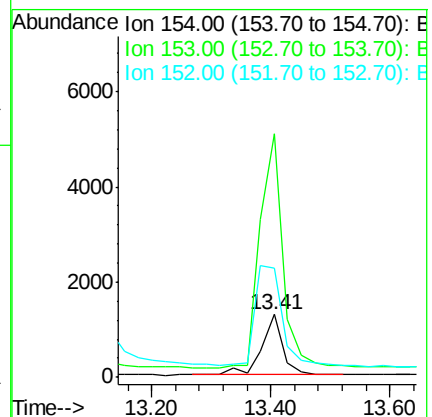
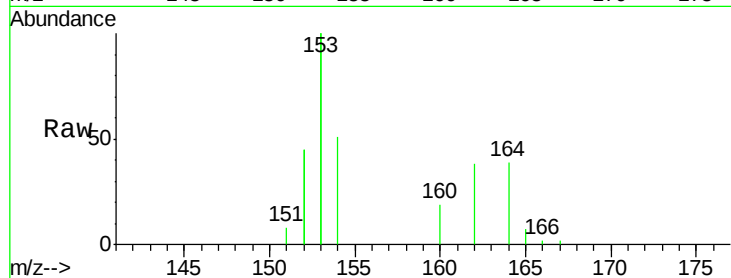
Tgt Ion:154 Resp: 3206

Ion Ratio Lower Upper

154 100

153 408.4 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: BE091438.D

Acq: 4 Mar 2016 00:39

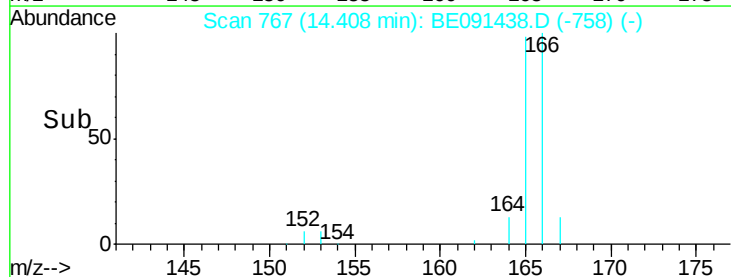
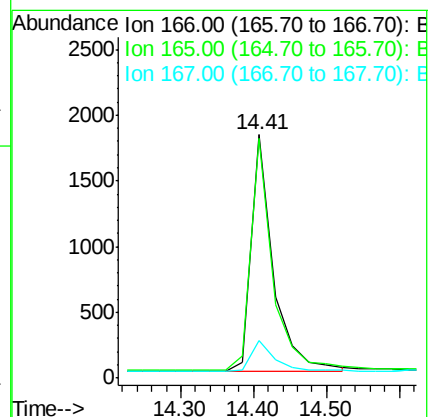
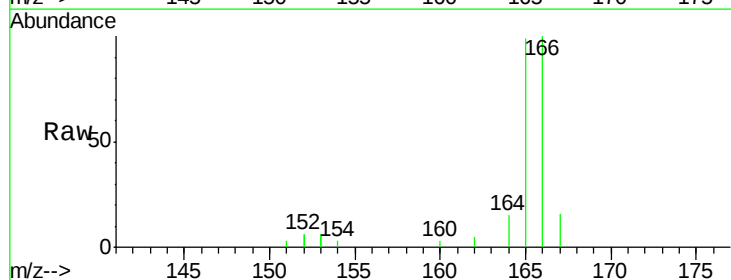
Tgt Ion:166 Resp: 3803

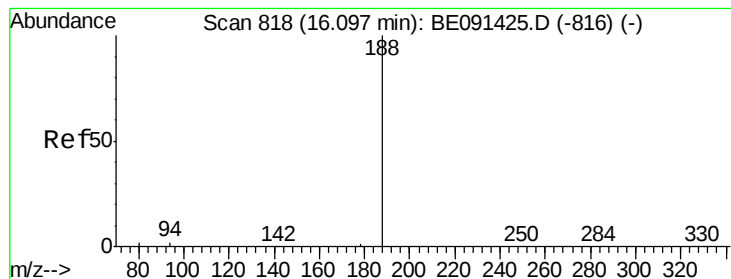
Ion Ratio Lower Upper

166 100

165 96.8 79.4 119.2

167 14.0 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: BE091438.D

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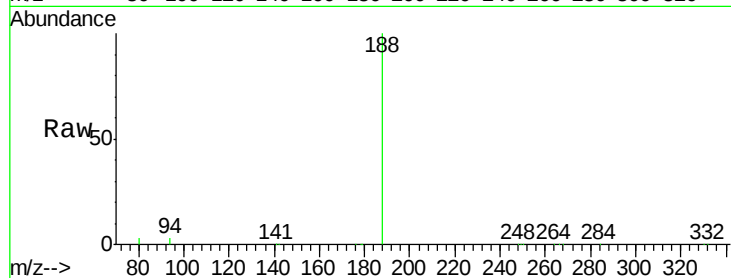
Tgt Ion:188 Resp: 162066

Ion Ratio Lower Upper

188 100

94 3.5 2.1 3.1#

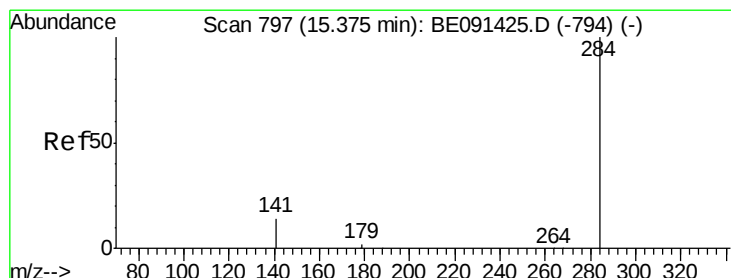
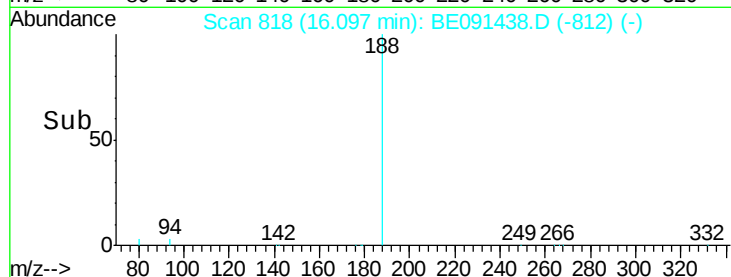
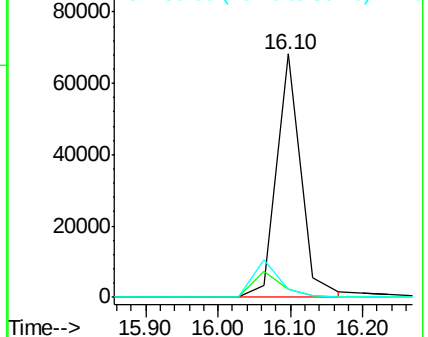
80 3.4 1.9 2.9#



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: BE091438.D

Acq: 4 Mar 2016 00:39

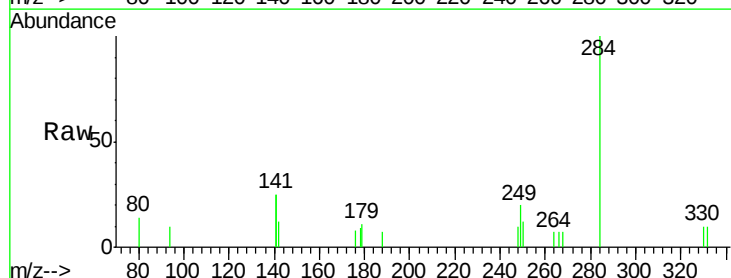
Tgt Ion:284 Resp: 1421

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

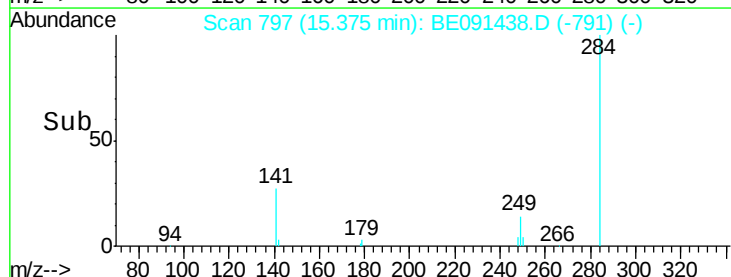
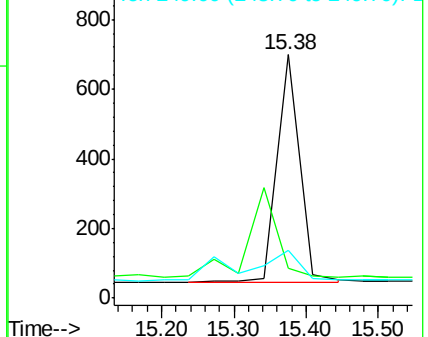
249 31.9 0.0 0.0#

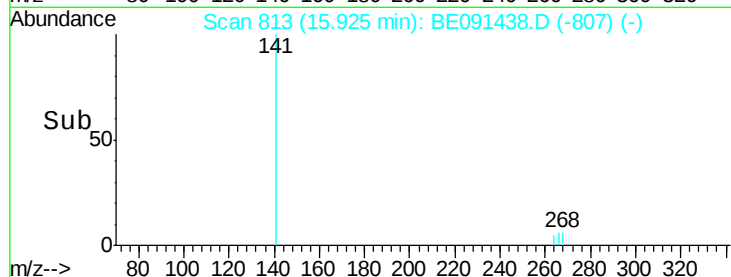
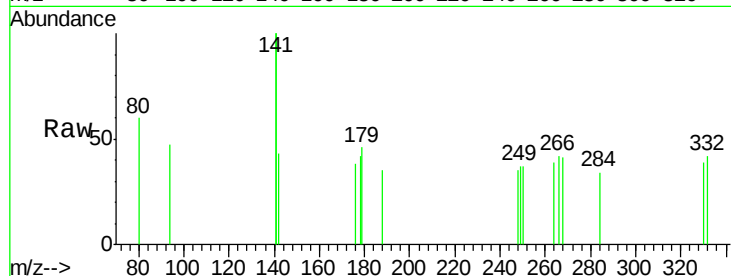
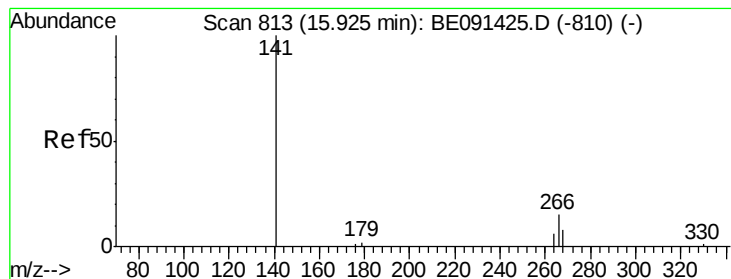


Abundance Ion 283.80 (283.50 to 284.50): E

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: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

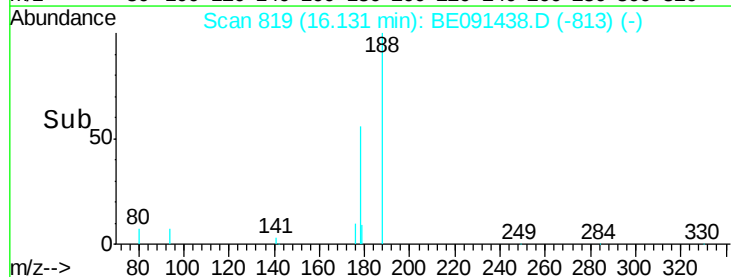
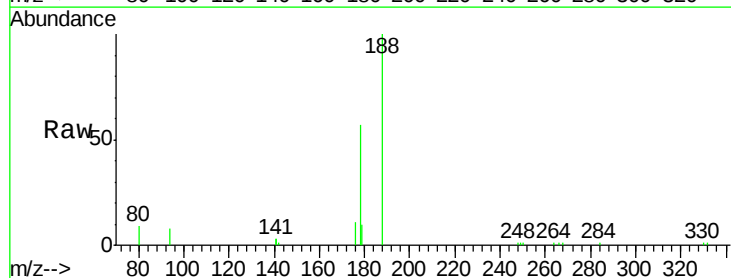
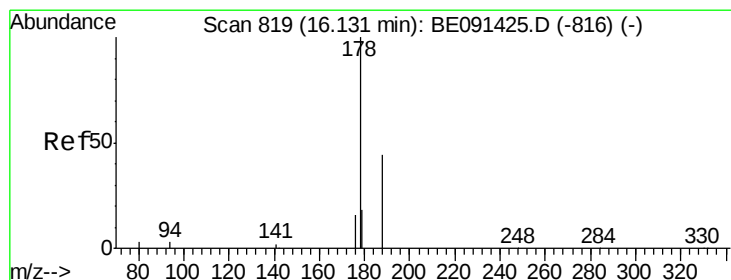
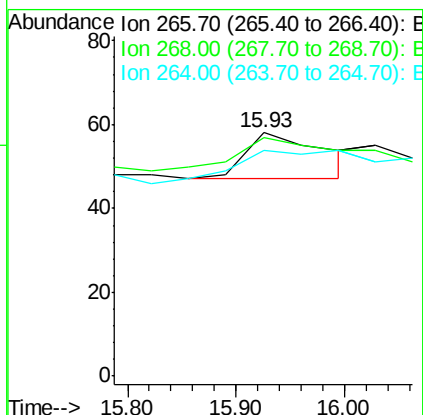
Tgt Ion:266 Resp: 56

Ion Ratio Lower Upper

266 100

268 98.3 73.0 109.6

264 93.1 66.1 99.1



#16

Phenanthrene

Concen: 0.13 ng

RT: 16.13 min Scan# 819

Delta R.T. -0.00 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

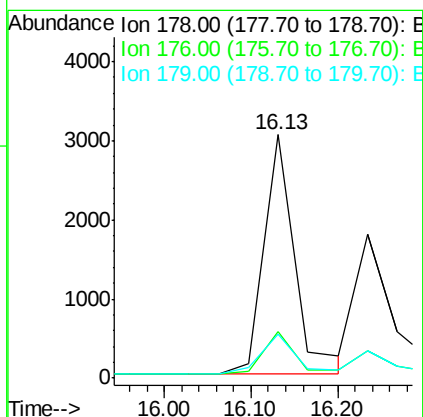
Tgt Ion:178 Resp: 7524

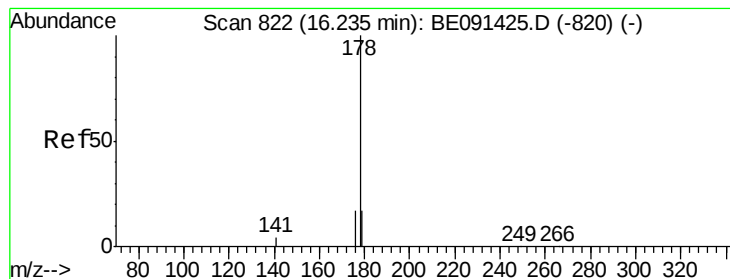
Ion Ratio Lower Upper

178 100

176 16.8 13.8 20.8

179 17.8 14.2 21.4





#17

Anthracene

Concen: 0.23 ng m

RT: 16.23 min Scan# 822

Delta R.T. 0.00 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

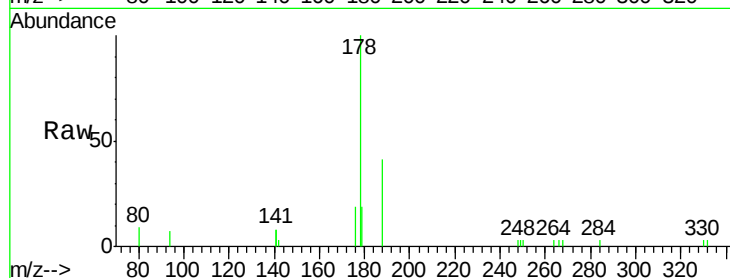
Tgt Ion:178 Resp: 5501

Ion Ratio Lower Upper

178 100

176 11.6 24.4 36.6#

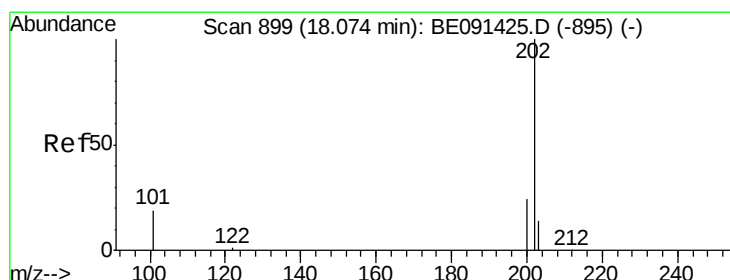
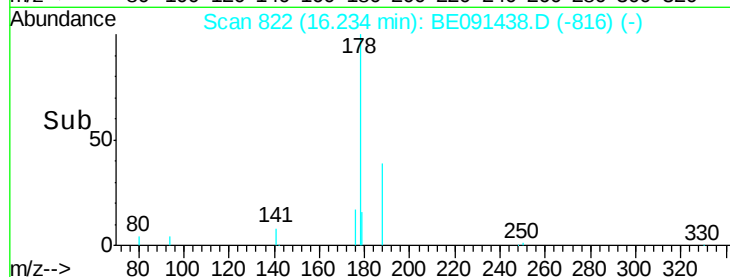
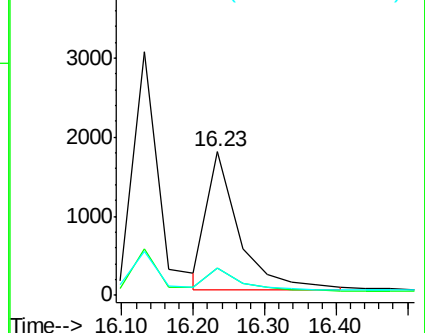
179 11.4 14.8 22.2#



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: 0.19 ng

RT: 18.09 min Scan# 900

Delta R.T. 0.02 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

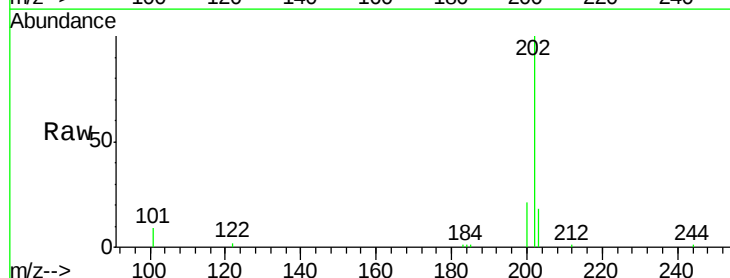
Tgt Ion:202 Resp: 7035

Ion Ratio Lower Upper

202 100

101 12.1 11.0 16.6

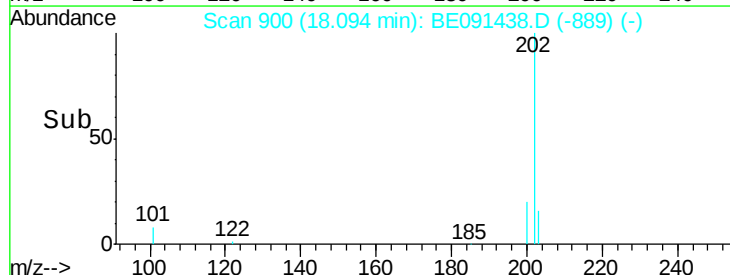
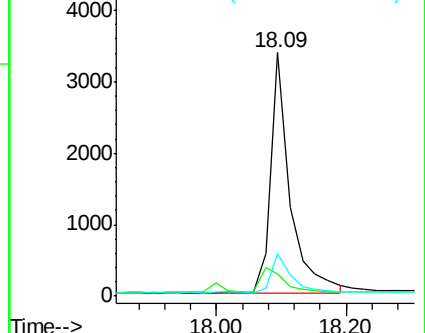
203 17.4 13.7 20.5

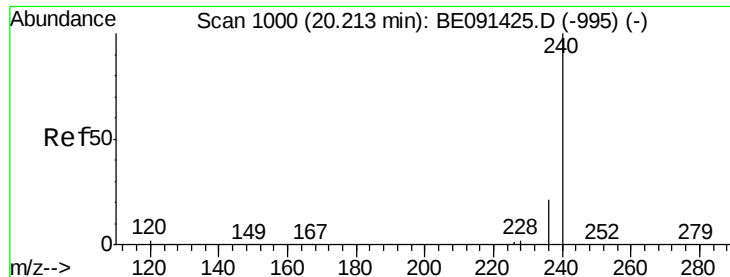


Abundance Ion 202.00 (201.70 to 202.70): E

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: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

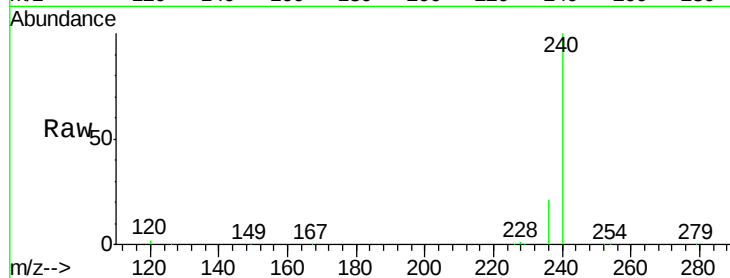
Tgt Ion:240 Resp: 218322

Ion Ratio Lower Upper

240 100

120 2.1 1.4 2.0#

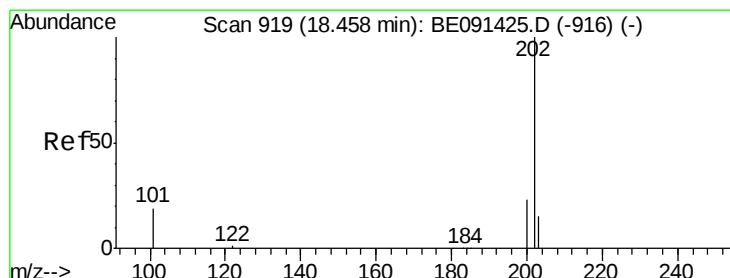
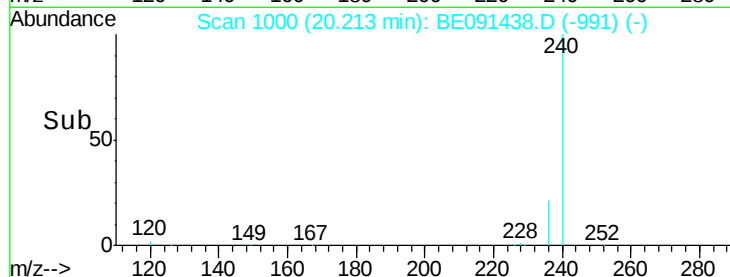
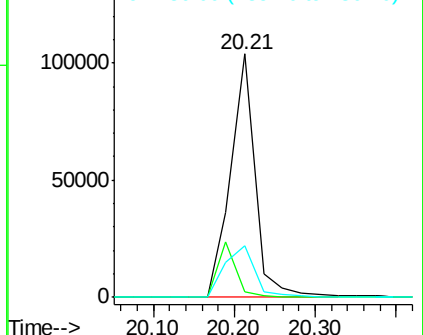
236 21.4 16.7 25.1



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: BE091438.D

Acq: 4 Mar 2016 00:39

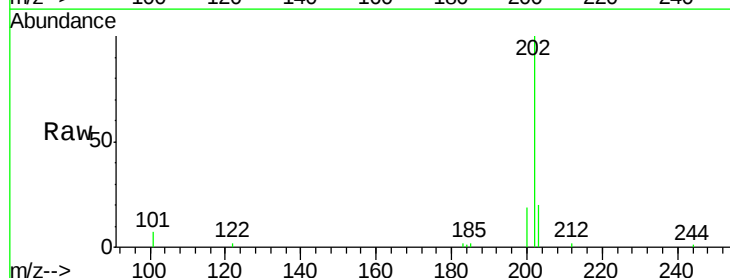
Tgt Ion:202 Resp: 7404

Ion Ratio Lower Upper

202 100

200 20.5 16.5 24.7

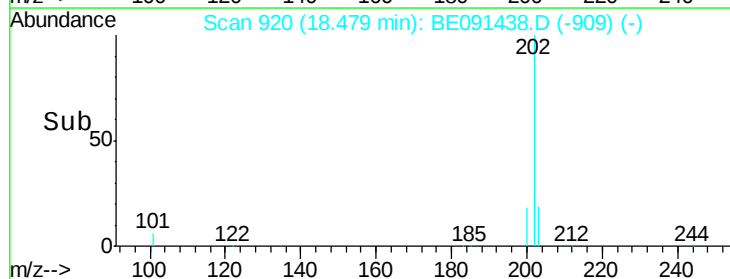
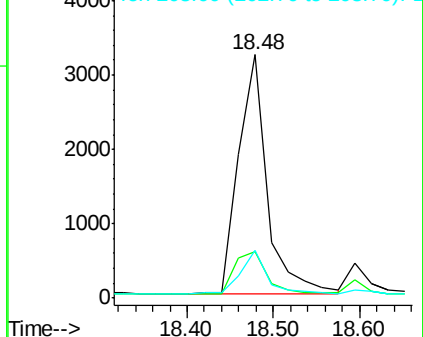
203 17.5 13.8 20.6

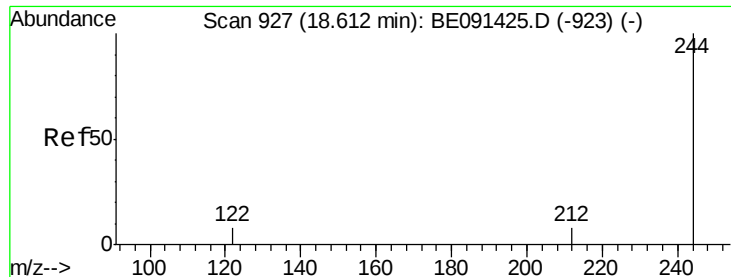


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

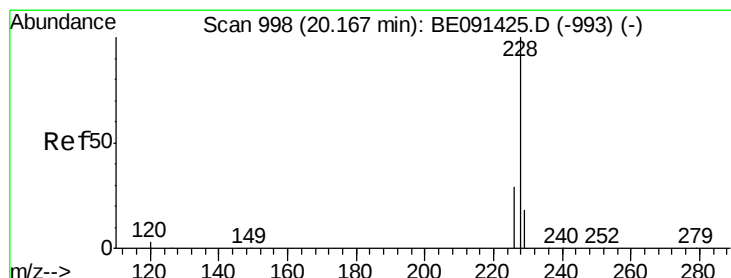
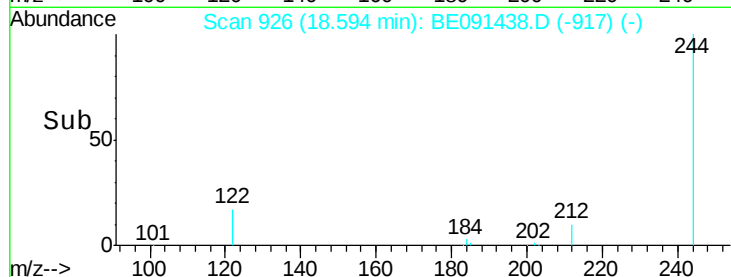
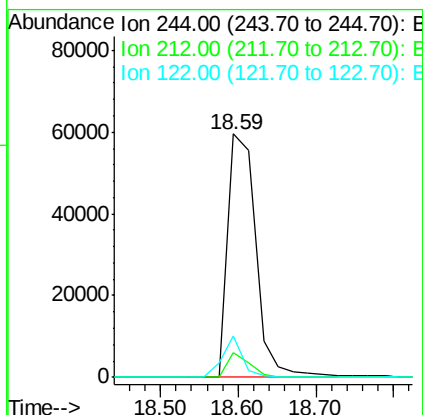
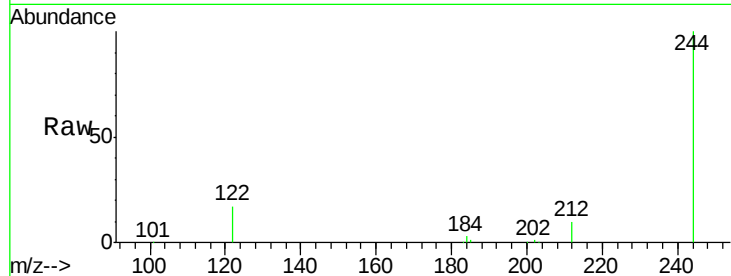




#21
 Terphenyl-d14
 Concen: 4.52 ng
 RT: 18.59 min Scan# 926
 Delta R.T. -0.02 min
 Lab File: BE091438.D
 Acq: 4 Mar 2016 00:39

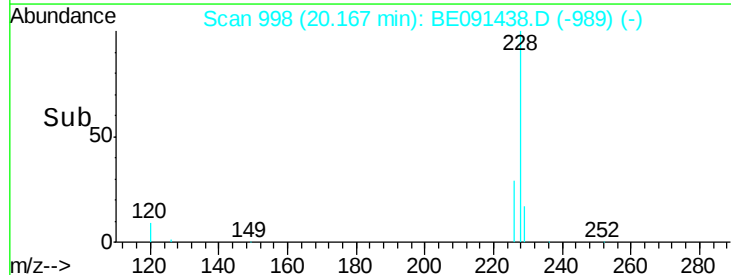
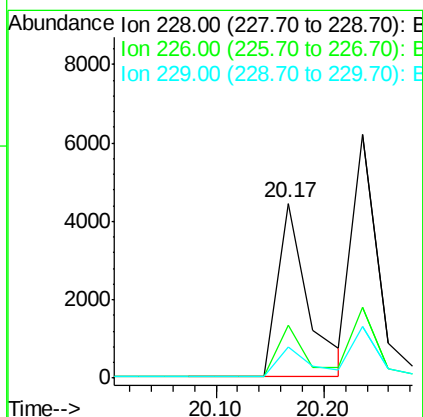
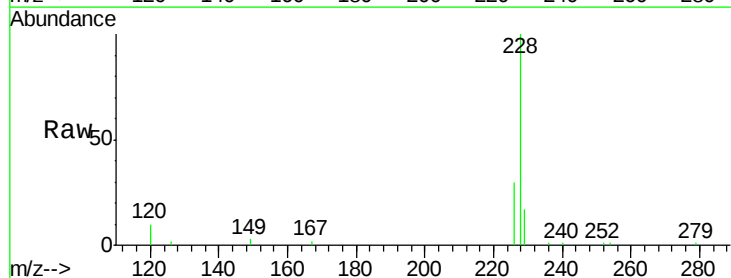
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

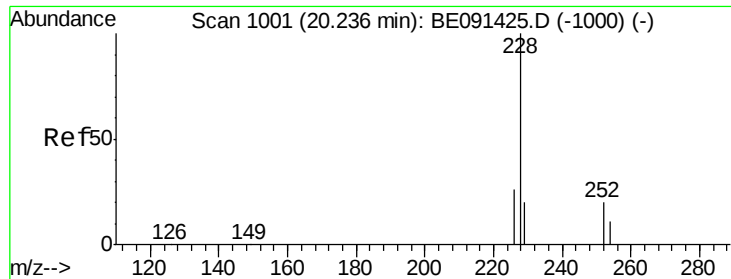
Tgt Ion:244 Resp: 150008
 Ion Ratio Lower Upper
 244 100
 212 10.1 7.0 10.6
 122 17.2 6.8 10.2#



#22
 Benzo(a)anthracene
 Concen: 0.12 ng
 RT: 20.17 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: BE091438.D
 Acq: 4 Mar 2016 00:39

Tgt Ion:228 Resp: 8691
 Ion Ratio Lower Upper
 228 100
 226 30.0 23.1 34.7
 229 17.5 14.5 21.7

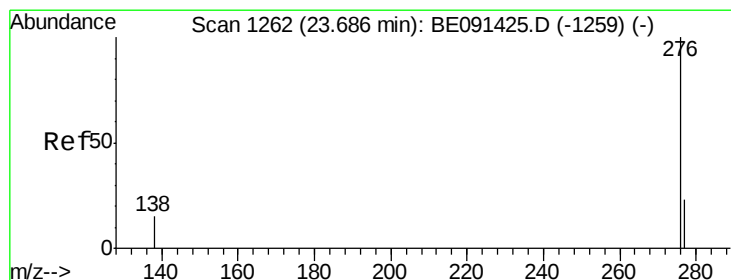
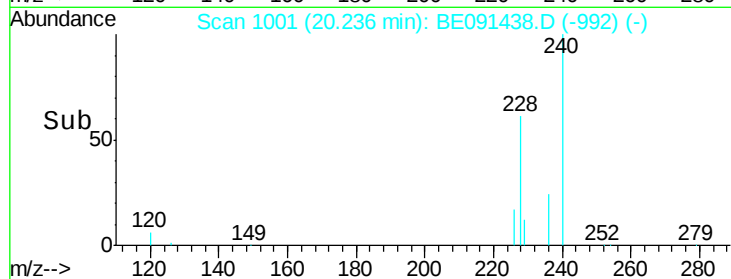
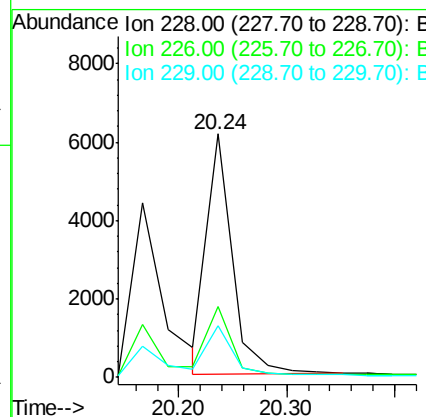
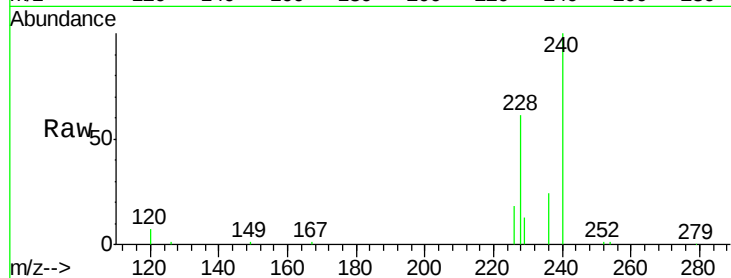




#23
Chrysene
Concen: 0.12 ng
RT: 20.24 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091438.D
Acq: 4 Mar 2016 00:39

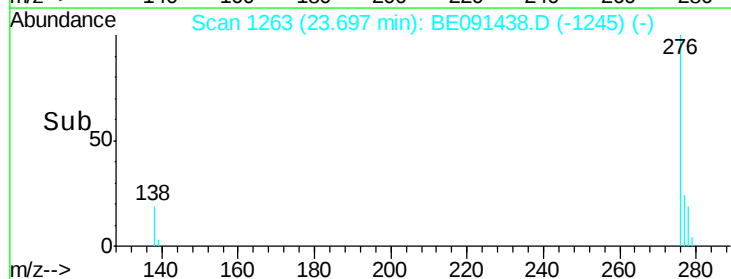
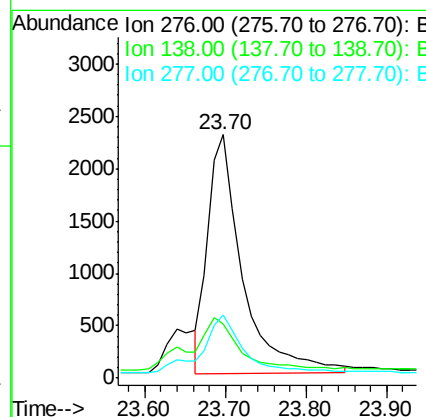
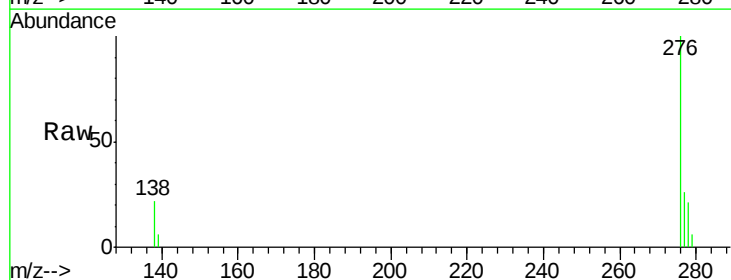
Instrument :
BNA_E
ClientSampleId :
MDL-07-S

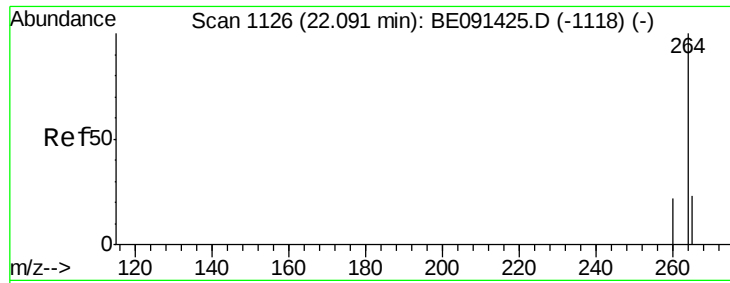
Tgt Ion: 228 Resp: 9982
Ion Ratio Lower Upper
228 100
226 29.1 22.0 33.0
229 21.1 16.2 24.2



#24
Indeno(1,2,3-cd)pyrene
Concen: 0.10 ng m
RT: 23.70 min Scan# 1263
Delta R.T. 0.01 min
Lab File: BE091438.D
Acq: 4 Mar 2016 00:39

Tgt Ion: 276 Resp: 6807
Ion Ratio Lower Upper
276 100
138 31.0 16.1 24.1#
277 29.1 22.9 34.3

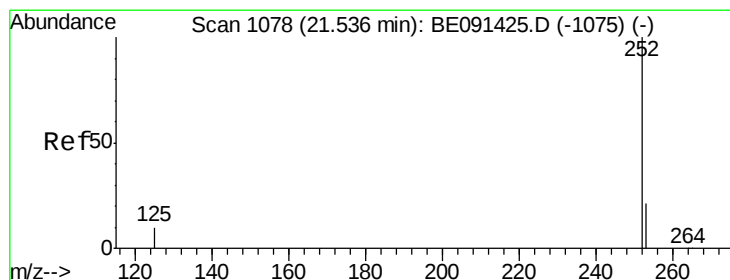
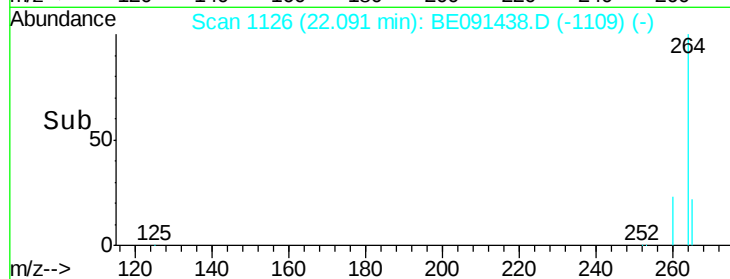
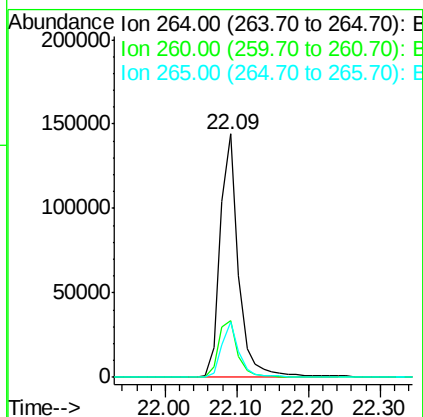
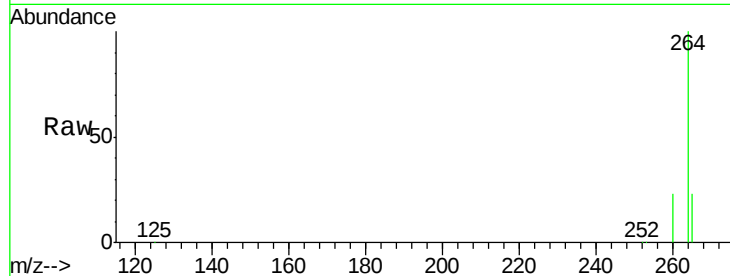




#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.09 min Scan# 1126
 Delta R.T. -0.00 min
 Lab File: BE091438.D
 Acq: 4 Mar 2016 00:39

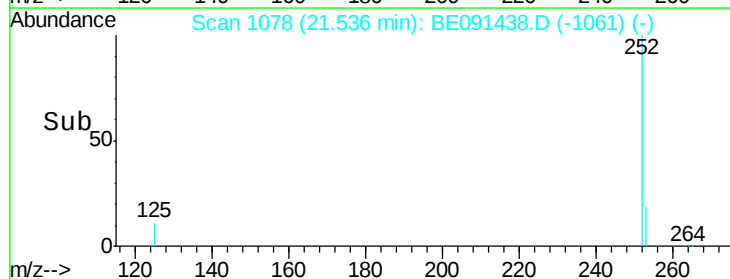
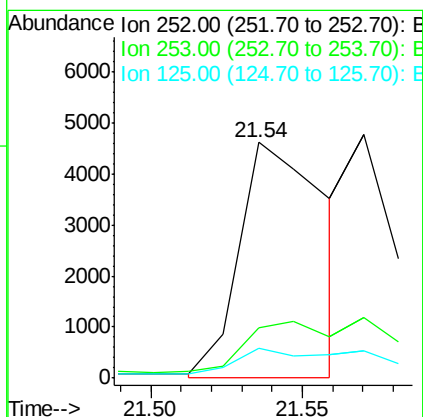
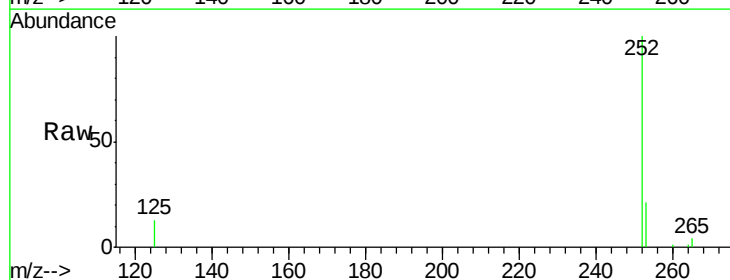
Instrument :
 BNA_E
 ClientSampleId :
 MDL-07-S

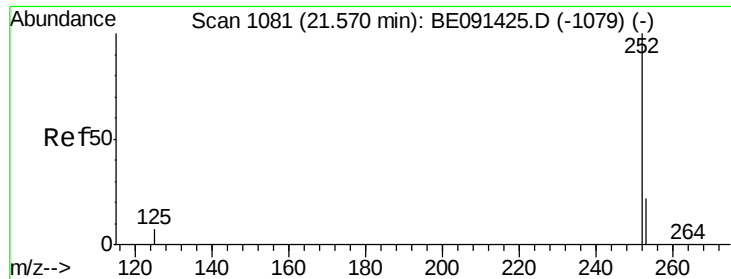
Tgt Ion:264 Resp: 256812
 Ion Ratio Lower Upper
 264 100
 260 23.3 18.0 27.0
 265 22.5 18.2 27.4



#26
 Benzo(b)fluoranthene
 Concen: 0.13 ng m
 RT: 21.54 min Scan# 1078
 Delta R.T. -0.00 min
 Lab File: BE091438.D
 Acq: 4 Mar 2016 00:39

Tgt Ion:252 Resp: 9091
 Ion Ratio Lower Upper
 252 100
 253 21.3 17.0 25.4
 125 12.8 8.3 12.5#





#27

Benzo(k)fluoranthene

Concen: 0.11 ng m

RT: 21.57 min Scan# 1081

Delta R.T. -0.00 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

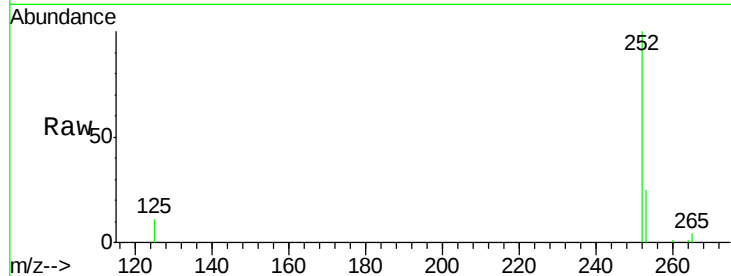
Tgt Ion:252 Resp: 7397

Ion Ratio Lower Upper

252 100

253 24.6 19.5 29.3

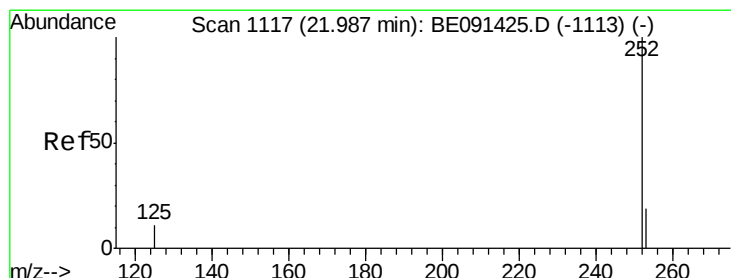
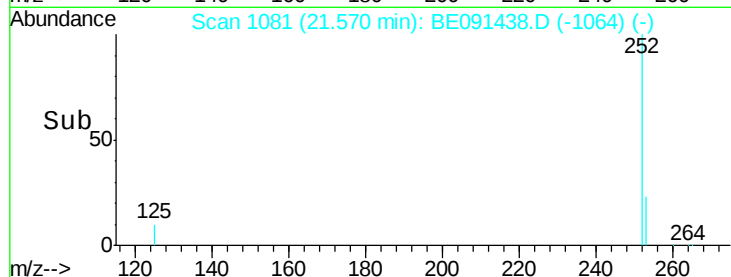
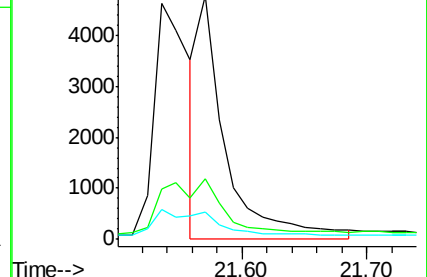
125 11.1 7.3 10.9#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#28

Benzo(a)pyrene

Concen: 0.11 ng

RT: 21.99 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

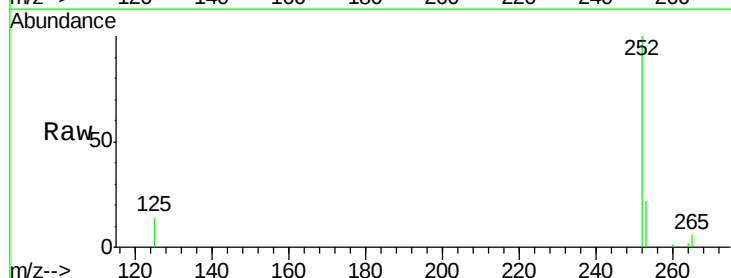
Tgt Ion:252 Resp: 6521

Ion Ratio Lower Upper

252 100

253 22.2 16.2 24.4

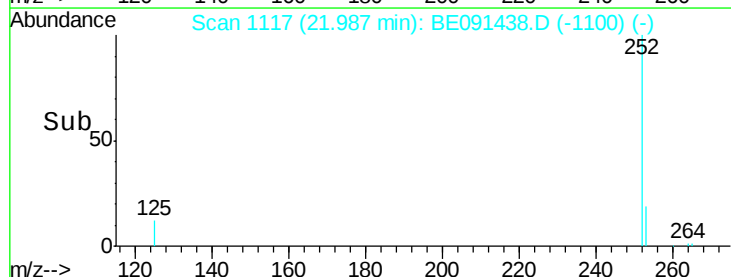
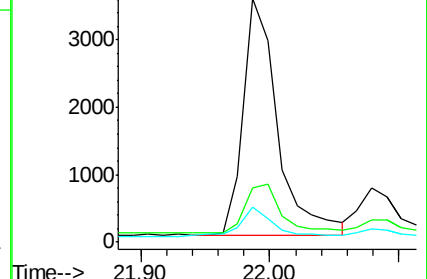
125 14.4 9.6 14.4

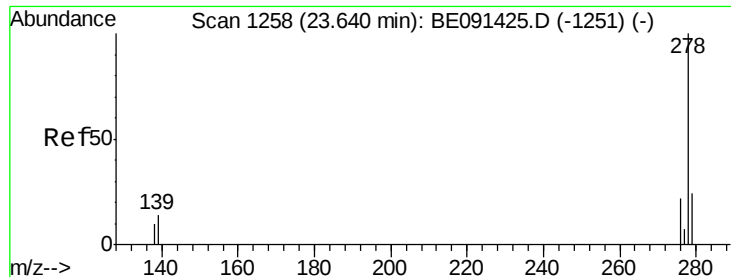


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#29

Dibenzo(a,h)anthracene

Concen: 0.10 ng

RT: 23.65 min Scan# 1259

Delta R.T. 0.01 min

Lab File: BE091438.D

Acq: 4 Mar 2016 00:39

Instrument :

BNA_E

ClientSampleId :

MDL-07-S

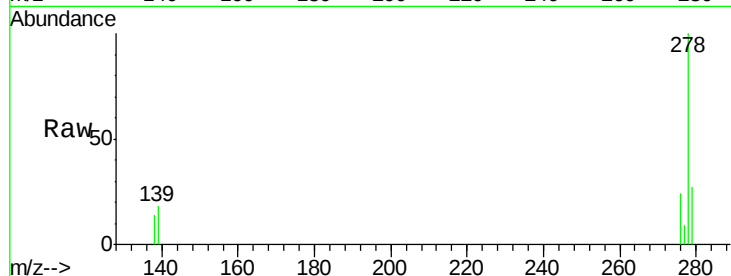
Tgt Ion: 278 Resp: 6171

Ion Ratio Lower Upper

278 100

139 18.3 12.1 18.1#

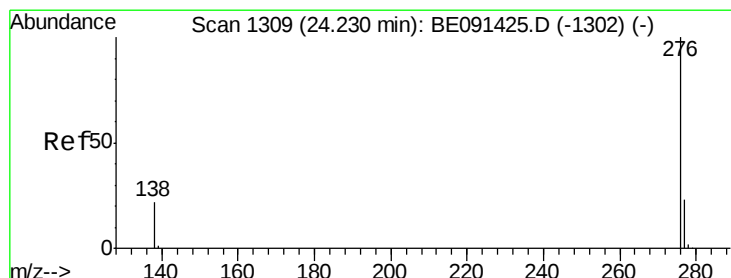
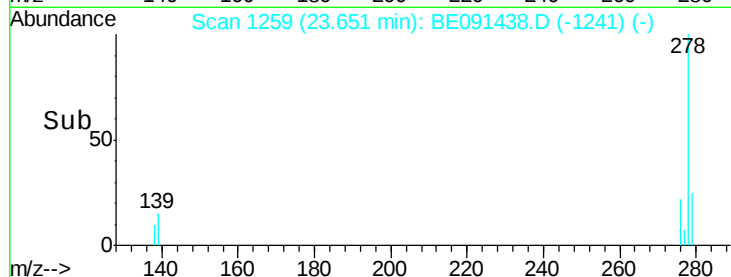
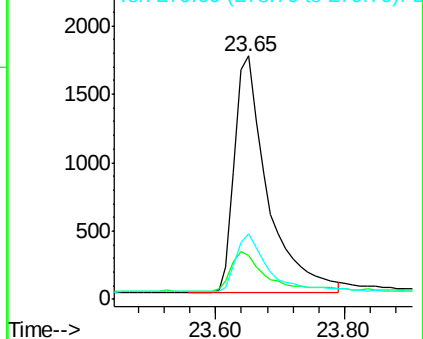
279 27.2 19.4 29.0



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: BE091438.D

Acq: 4 Mar 2016 00:39

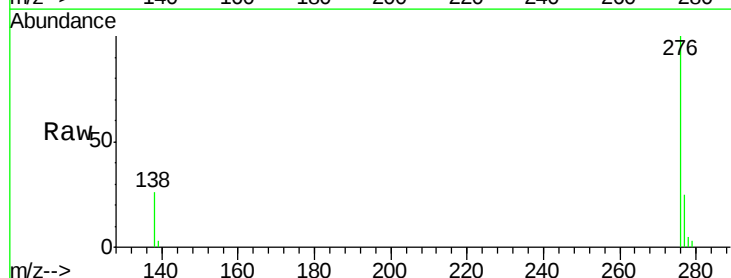
Tgt Ion: 276 Resp: 7248

Ion Ratio Lower Upper

276 100

277 25.3 19.0 28.6

138 26.3 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

