

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
 Data File : BE091435.D
 Acq On : 3 Mar 2016 22:48
 Operator : UM/IZ
 Sample : MDL-04-S
 Misc : 0.008PPM
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

Quant Time: Mar 04 08:04:02 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

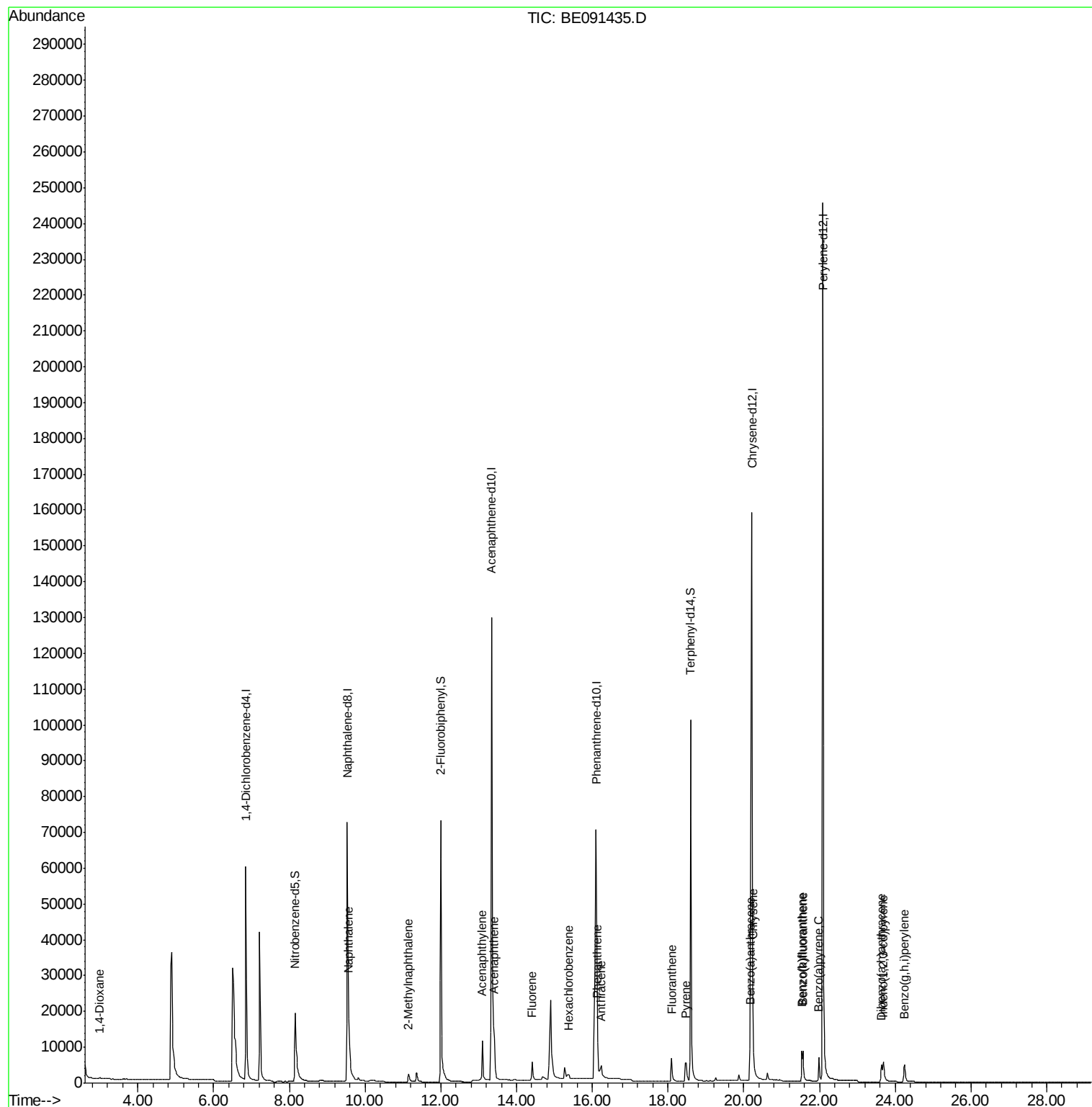
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	34393	5.00	ng	-0.02
4) Naphthalene-d8	9.53	136	150575	5.00	ng	0.00
8) Acenaphthene-d10	13.34	164	92831	5.00	ng	0.00
13) Phenanthrene-d10	16.10	188	160355	5.00	ng	0.00
19) Chrysene-d12	20.21	240	252187	5.00	ng	0.00
25) Perylene-d12	22.09	264	291572	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.15	82	36093	3.88	ng	-0.03
9) 2-Fluorobiphenyl	11.99	172	104699	4.65	ng	-0.01
21) Terphenyl-d14	18.59	244	183978	4.79	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	2.99	88	363	0.12	ng	# 97
6) Naphthalene	9.57	128	4933	0.14	ng	96
7) 2-Methylnaphthalene	11.15	142	2927	0.14	ng	91
10) Acenaphthylene	13.09	152	19435	0.12	ng	100
11) Acenaphthene	13.41	154	4067	0.15	ng	# 100
12) Fluorene	14.41	166	4628	0.13	ng	99
14) Hexachlorobenzene	15.38	284	1584	0.17	ng	# 100
15) Pentachlorophenol	15.93	266	126	Below Cal		99
16) Phenanthrene	16.13	178	8141	0.14	ng	99
17) Anthracene	16.24	178	7318m	0.24	ng	
18) Fluoranthene	18.09	202	9054	0.21	ng	98
20) Pyrene	18.48	202	9486	0.13	ng	99
22) Benzo(a)anthracene	20.17	228	11081	0.13	ng	100
23) Chrysene	20.24	228	13772	0.15	ng	99
24) Indeno(1,2,3-cd)pyrene	23.69	276	9546m	0.13	ng	
26) Benzo(b)fluoranthene	21.53	252	12477m	0.15	ng	
27) Benzo(k)fluoranthene	21.57	252	9967m	0.13	ng	
28) Benzo(a)pyrene	21.99	252	9294	0.13	ng	98
29) Dibenzo(a,h)anthracene	23.64	278	8473	0.13	ng	# 95
30) Benzo(g,h,i)perylene	24.24	276	9776	0.13	ng	99

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

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE030316\
Data File : BE091435.D
Acq On : 3 Mar 2016 22:48
Operator : UM/IZ
Sample : MDL-04-S
Misc : 0.008PPM
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
MDL-04-S

Quant Time: Mar 04 08:04:02 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 6.85 min Scan# 245

Delta R.T. -0.02 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

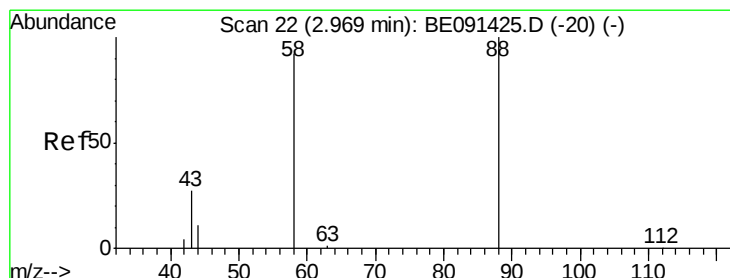
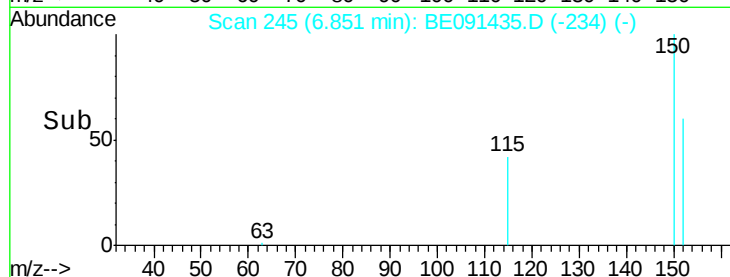
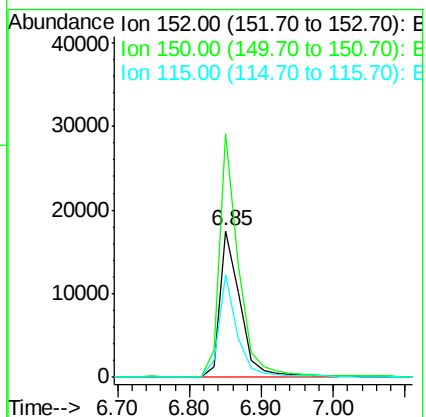
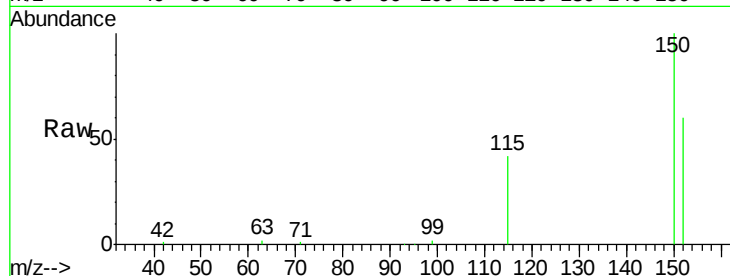
Tgt Ion:152 Resp: 34393

Ion Ratio Lower Upper

152 100

150 166.3 115.0 172.4

115 70.5 42.2 63.4#



#2

1,4-Dioxane

Concen: 0.12 ng

RT: 2.99 min Scan# 23

Delta R.T. 0.02 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

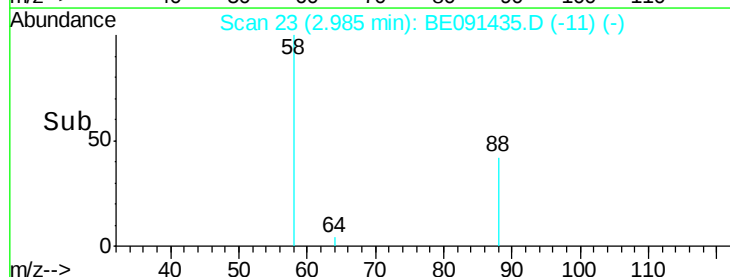
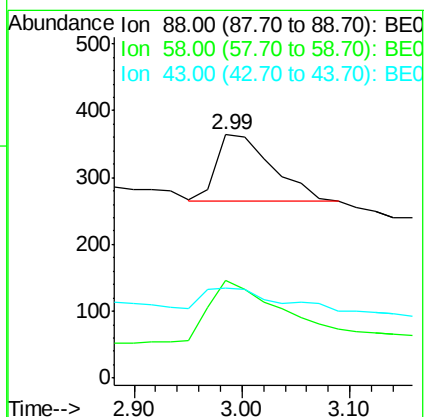
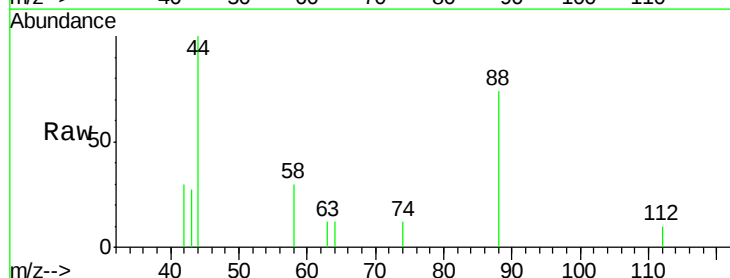
Tgt Ion: 88 Resp: 363

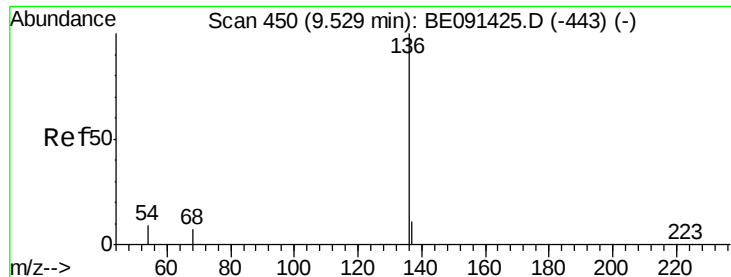
Ion Ratio Lower Upper

88 100

58 122.3 97.9 146.9

43 43.5 29.0 43.4#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 9.53 min Scan# 450

Delta R.T. 0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

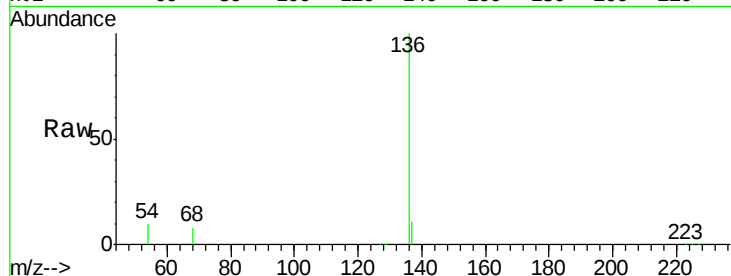
Instrument :

BNA_E

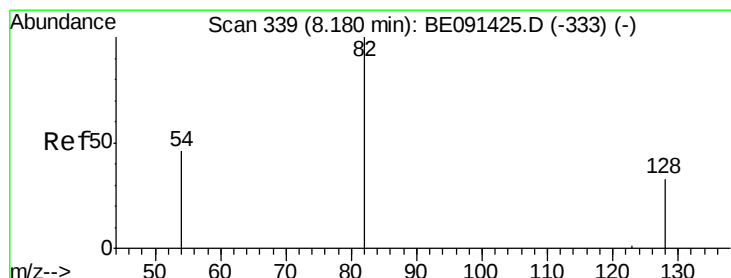
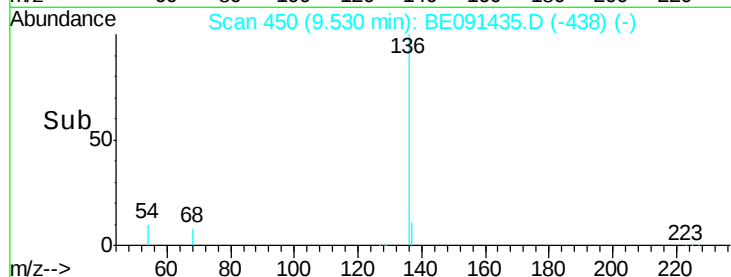
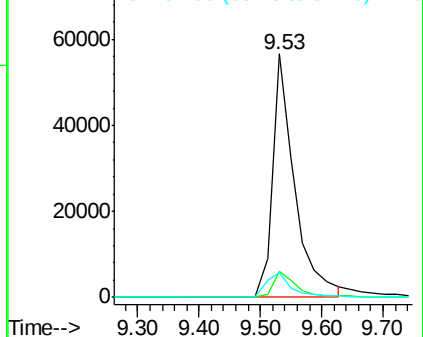
ClientSampleId :

MDL-04-S

Tgt Ion:	136	Resp:	150575
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.7	13.1
54	10.0	6.9	10.3



Abundance Ion 136.00 (135.70 to 136.70): BE091435.D (-443) (-)



#5

Nitrobenzene-d5

Concen: 3.88 ng

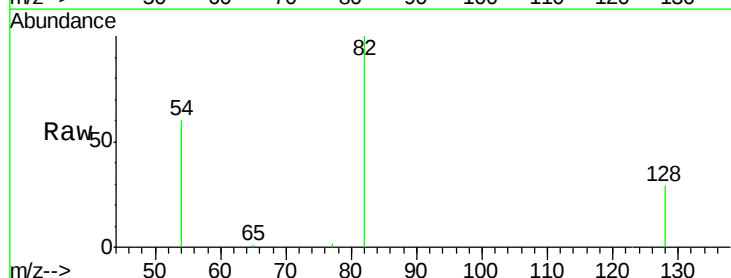
RT: 8.15 min Scan# 336

Delta R.T. -0.03 min

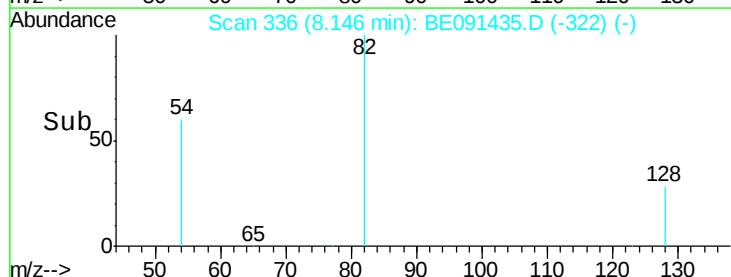
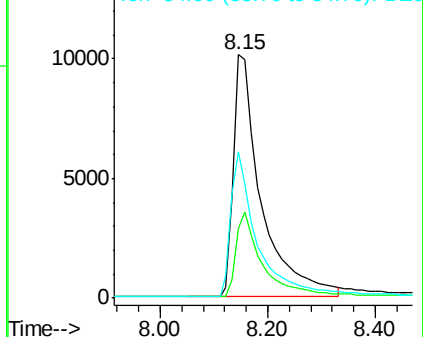
Lab File: BE091435.D

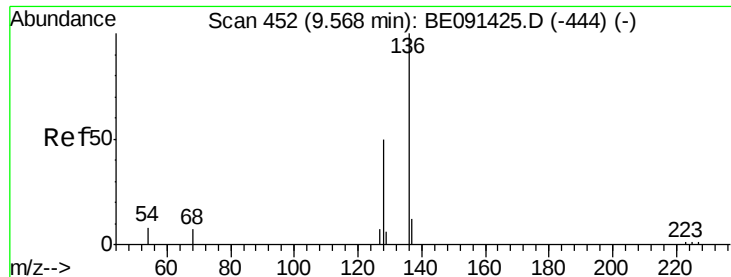
Acq: 3 Mar 2016 22:48

Tgt Ion:	82	Resp:	36093
Ion	Ratio	Lower	Upper
82	100		
128	28.7	30.0	45.0#
54	59.9	41.5	62.3



Abundance Ion 82.00 (81.70 to 82.70): BE091435.D (-333) (-)





#6

Naphthalene

Concen: 0.14 ng

RT: 9.57 min Scan# 452

Delta R.T. 0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

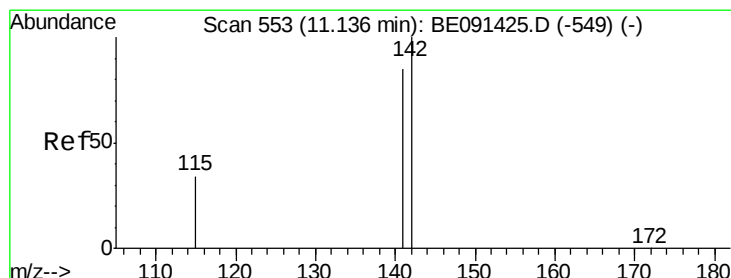
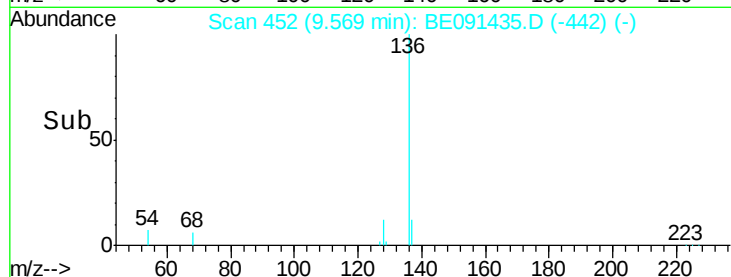
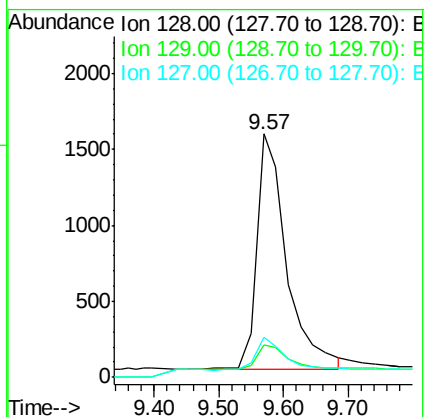
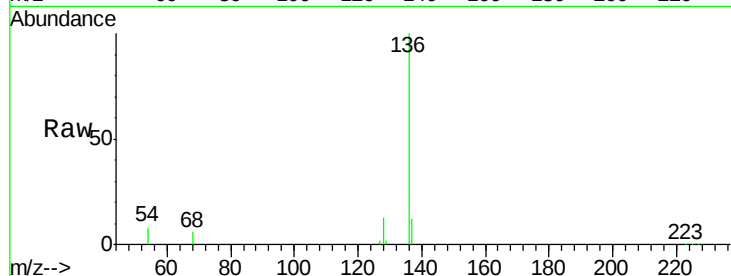
Tgt Ion:128 Resp: 4933

Ion Ratio Lower Upper

128 100

129 13.1 9.5 14.3

127 16.3 11.4 17.0



#7

2-Methylnaphthalene

Concen: 0.14 ng

RT: 11.15 min Scan# 554

Delta R.T. 0.01 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

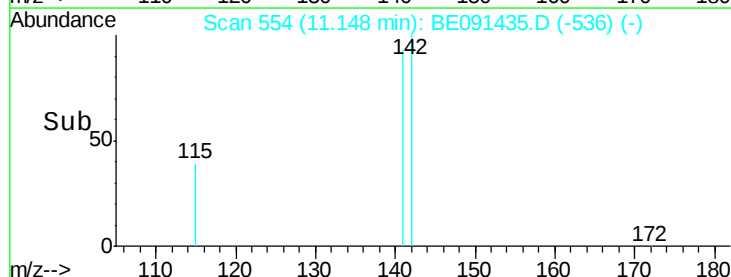
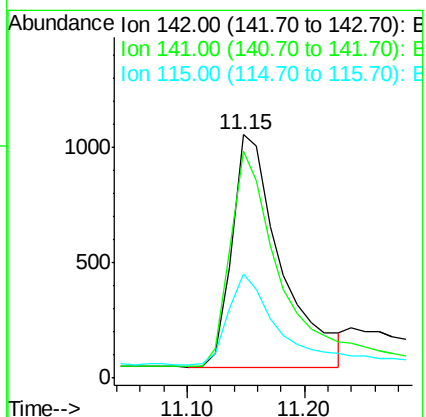
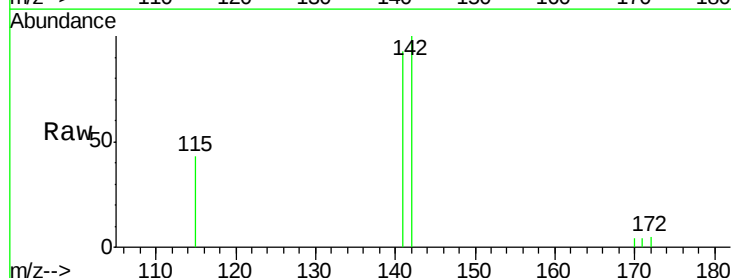
Tgt Ion:142 Resp: 2927

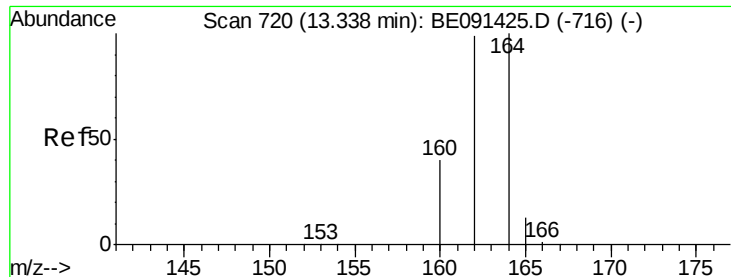
Ion Ratio Lower Upper

142 100

141 93.0 68.3 102.5

115 42.8 28.9 43.3





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 13.34 min Scan# 720

Delta R.T. 0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

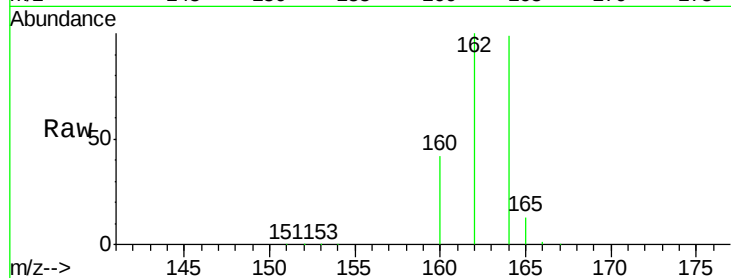
Tgt Ion:164 Resp: 92831

Ion Ratio Lower Upper

164 100

162 100.8 79.1 118.7

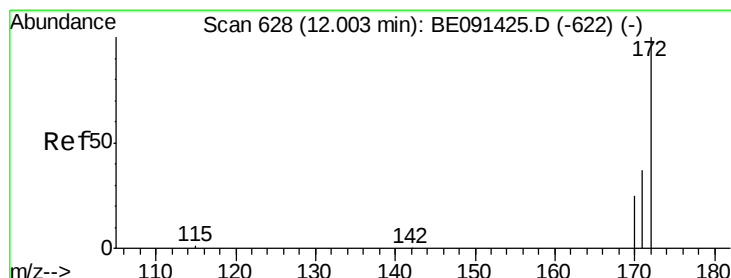
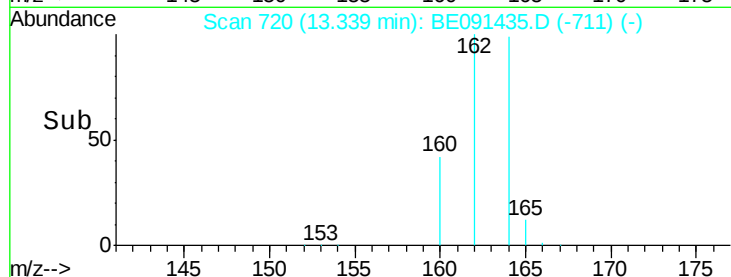
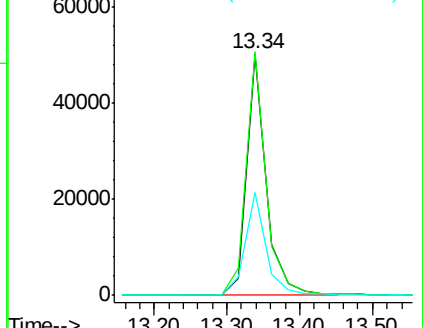
160 42.4 32.4 48.6



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: 4.65 ng

RT: 11.99 min Scan# 627

Delta R.T. -0.01 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

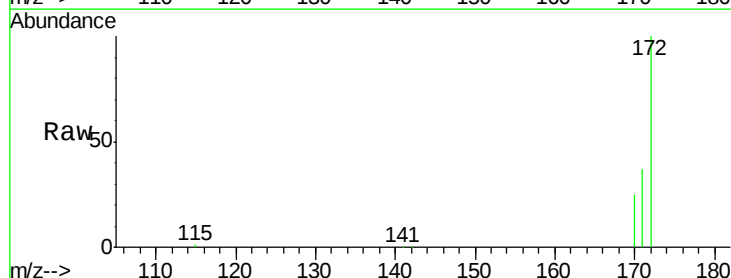
Tgt Ion:172 Resp: 104699

Ion Ratio Lower Upper

172 100

171 36.6 30.2 45.4

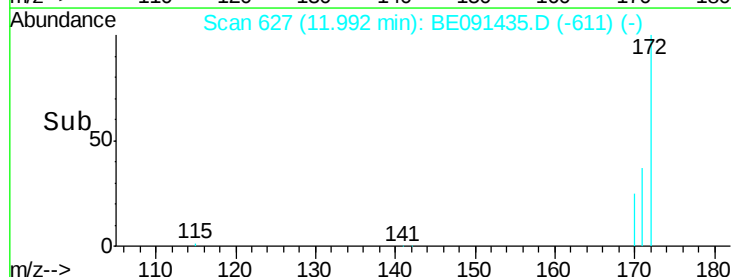
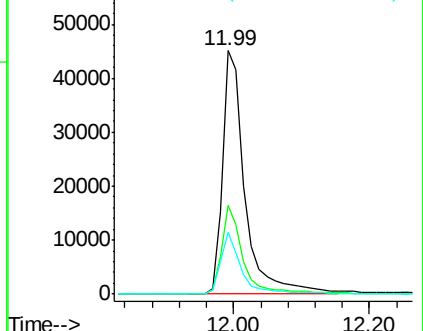
170 25.2 20.9 31.3

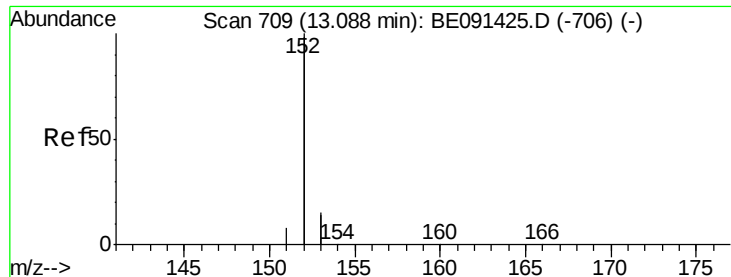


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthylene

Concen: 0.12 ng

RT: 13.09 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

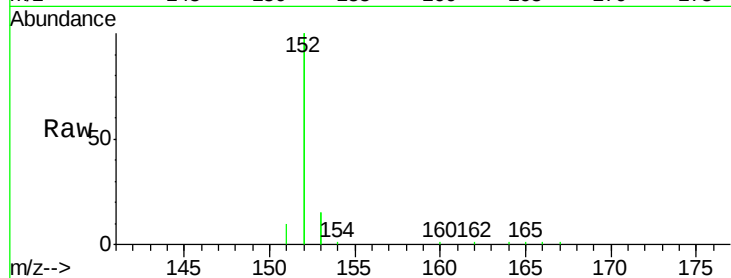
Tgt Ion:152 Resp: 19435

Ion Ratio Lower Upper

152 100

151 4.7 3.9 5.9

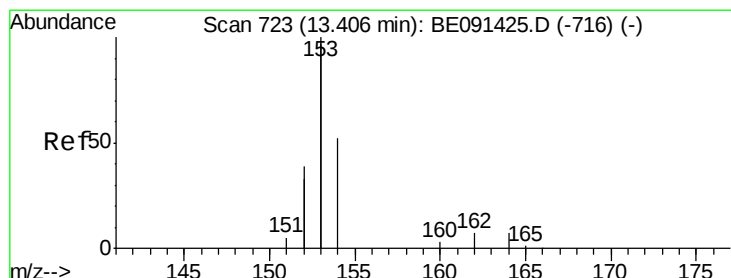
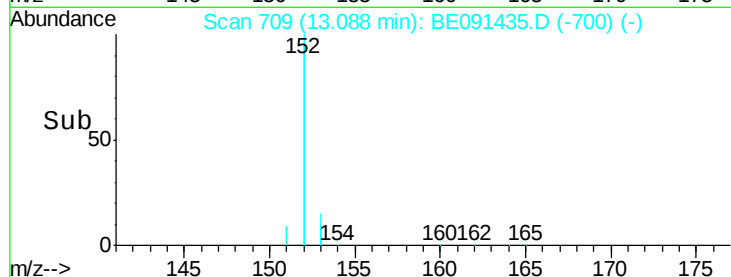
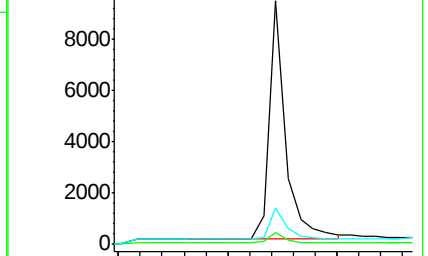
153 13.0 10.5 15.7



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: 0.15 ng

RT: 13.41 min Scan# 723

Delta R.T. 0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

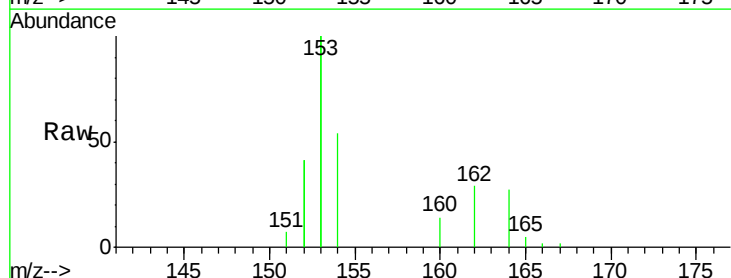
Tgt Ion:154 Resp: 4067

Ion Ratio Lower Upper

154 100

153 409.0 0.0 0.0#

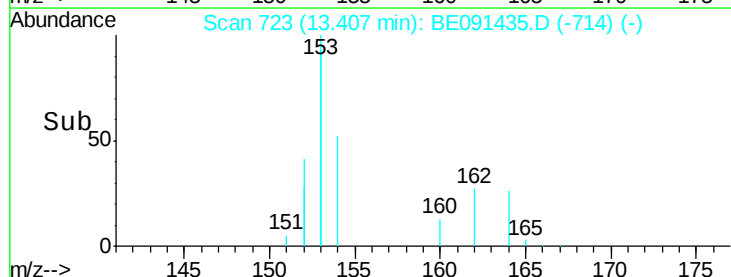
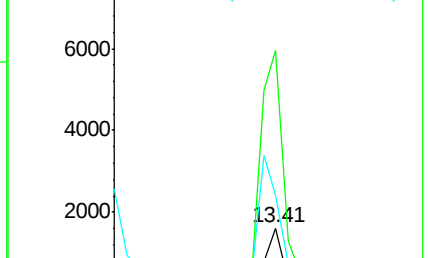
152 0.0 0.0 0.0

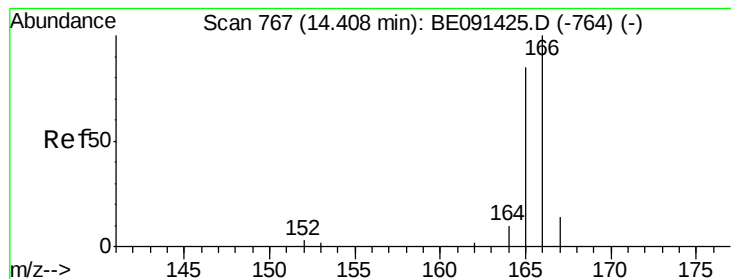


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 0.13 ng

RT: 14.41 min Scan# 767

Delta R.T. 0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

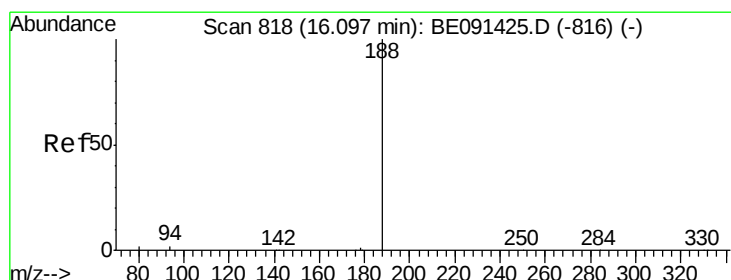
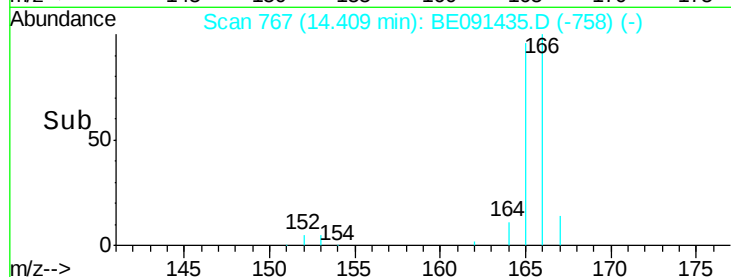
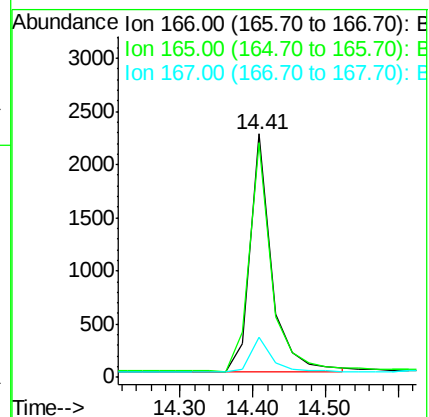
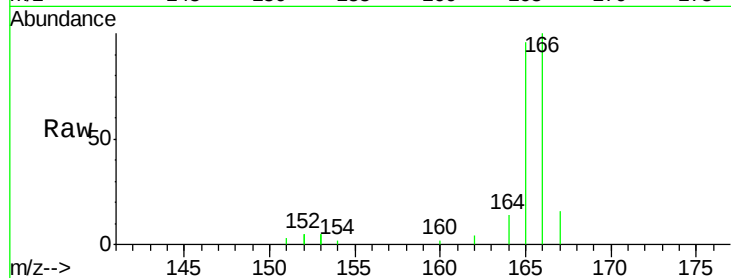
Tgt Ion:166 Resp: 4628

Ion Ratio Lower Upper

166 100

165 98.9 79.4 119.2

167 14.1 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: BE091435.D

Acq: 3 Mar 2016 22:48

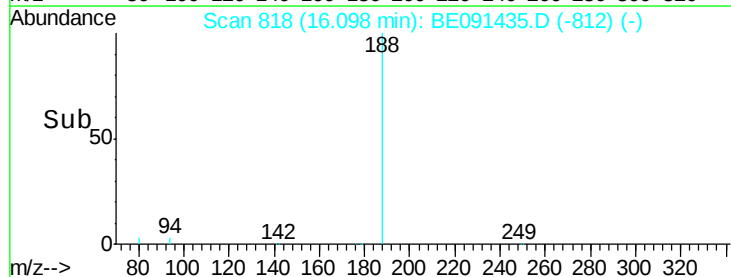
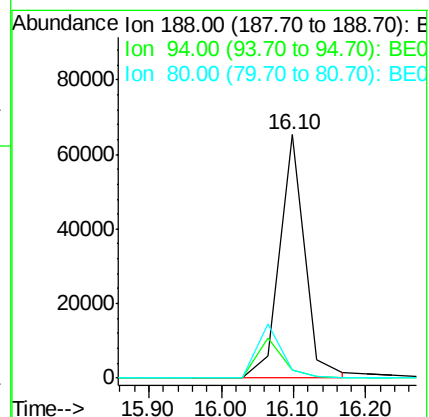
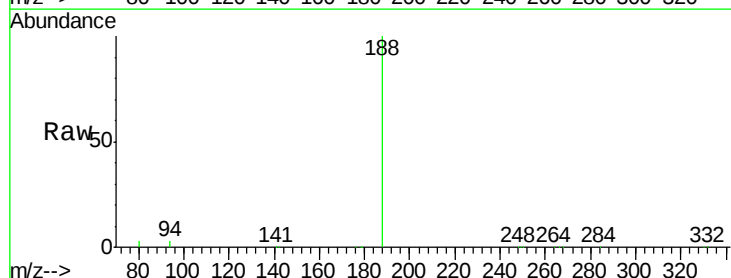
Tgt Ion:188 Resp: 160355

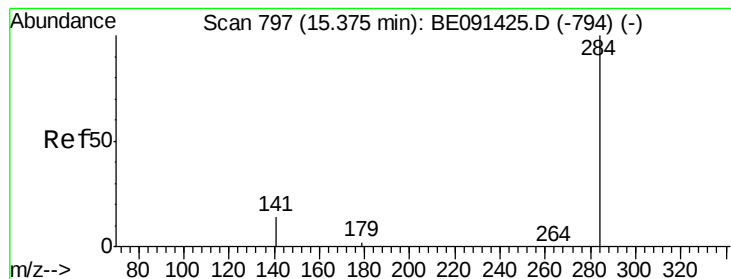
Ion Ratio Lower Upper

188 100

94 3.2 2.1 3.1#

80 3.1 1.9 2.9#





#14

Hexachlorobenzene

Concen: 0.17 ng

RT: 15.38 min Scan# 797

Delta R.T. 0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

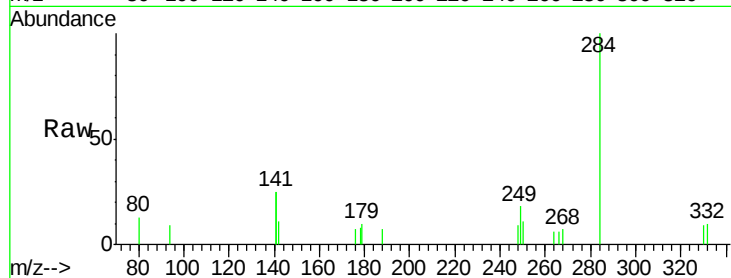
Tgt Ion:284 Resp: 1584

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

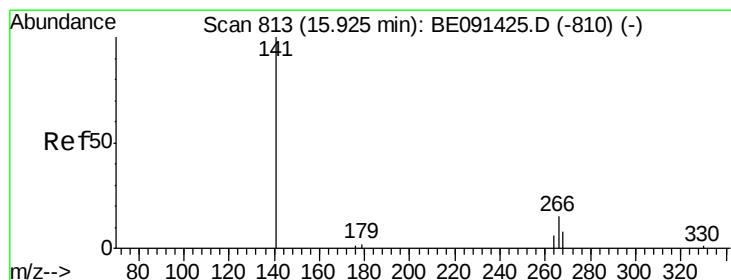
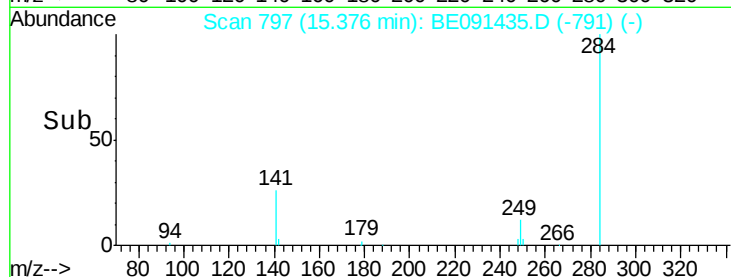
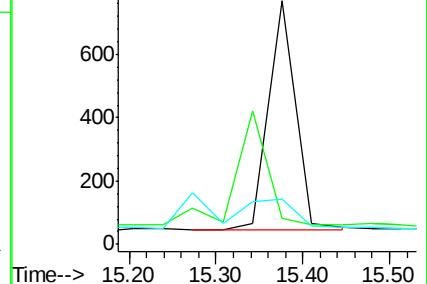
249 0.0 0.0 0.0



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: BE091435.D

Acq: 3 Mar 2016 22:48

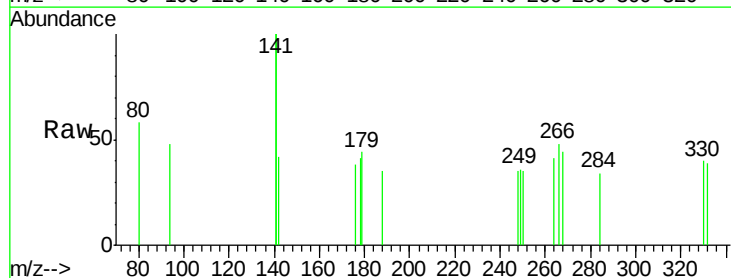
Tgt Ion:266 Resp: 126

Ion Ratio Lower Upper

266 100

268 91.2 73.0 109.6

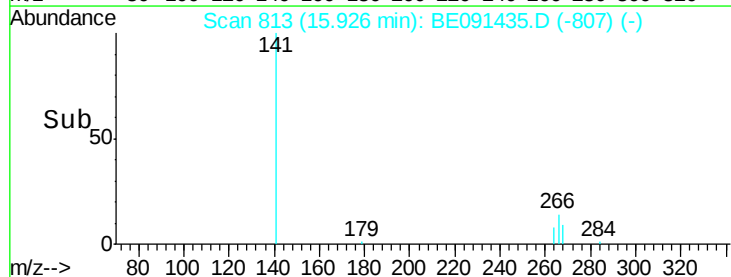
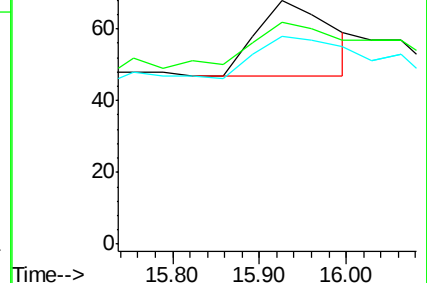
264 85.3 66.1 99.1

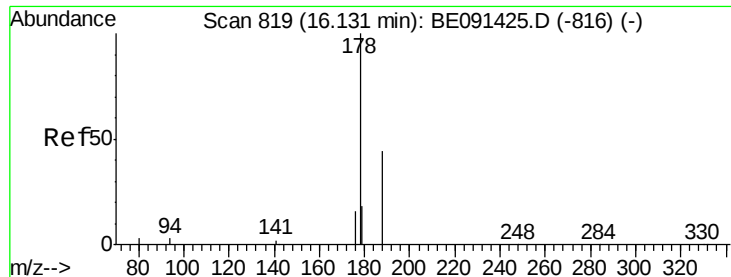


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

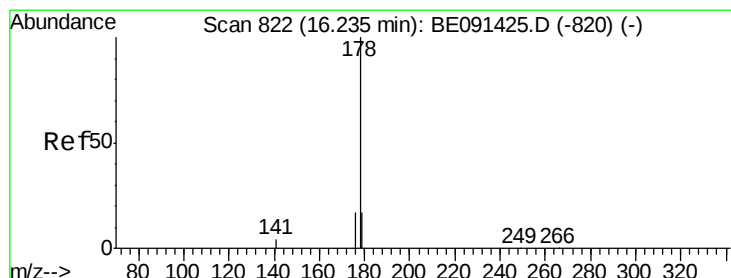
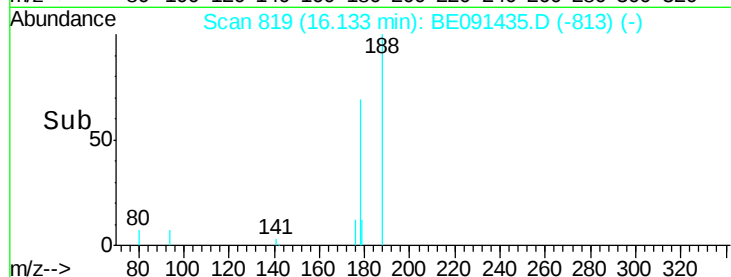
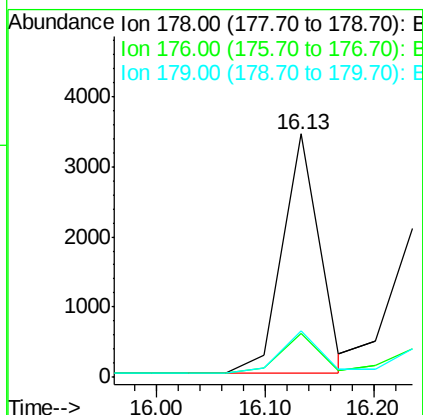
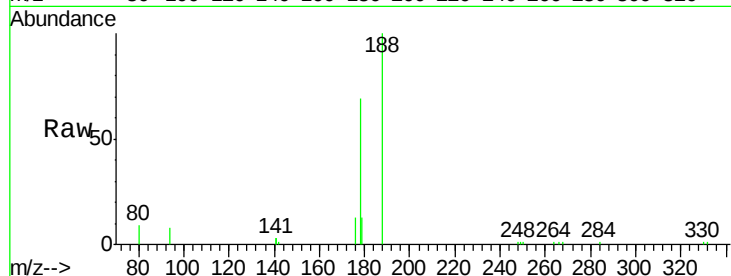




#16
Phenanthrene
Concen: 0.14 ng
RT: 16.13 min Scan# 819
Delta R.T. 0.00 min
Lab File: BE091435.D
Acq: 3 Mar 2016 22:48

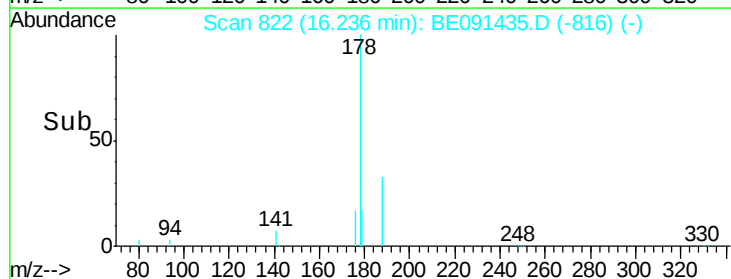
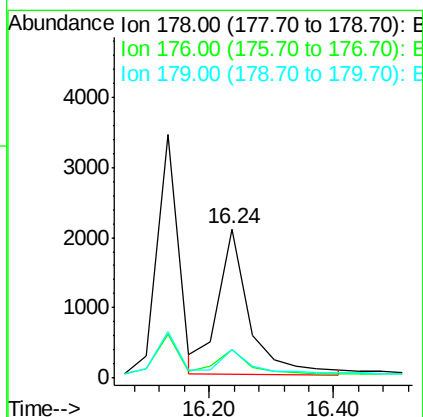
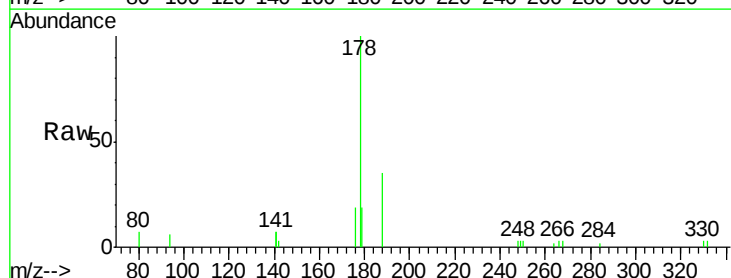
Instrument :
BNA_E
ClientSampleId :
MDL-04-S

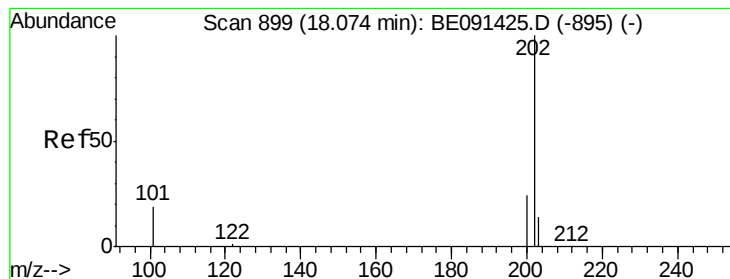
Tgt Ion:178 Resp: 8141
Ion Ratio Lower Upper
178 100
176 17.5 13.8 20.8
179 18.1 14.2 21.4



#17
Anthracene
Concen: 0.24 ng m
RT: 16.24 min Scan# 822
Delta R.T. 0.00 min
Lab File: BE091435.D
Acq: 3 Mar 2016 22:48

Tgt Ion:178 Resp: 7318
Ion Ratio Lower Upper
178 100
176 10.5 24.4 36.6#
179 10.6 14.8 22.2#





#18

Fluoranthene

Concen: 0.21 ng

RT: 18.09 min Scan# 900

Delta R.T. 0.02 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

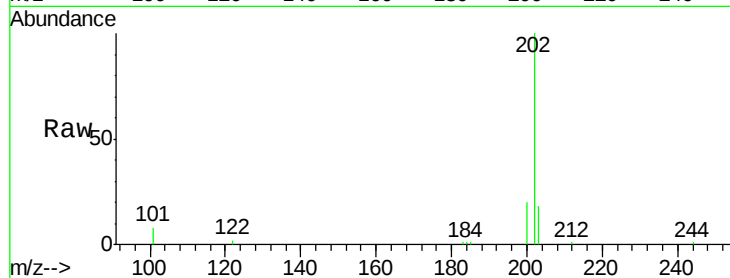
Tgt Ion:202 Resp: 9054

Ion Ratio Lower Upper

202 100

101 11.9 11.0 16.6

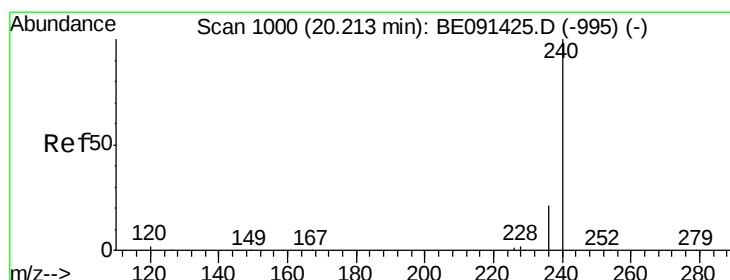
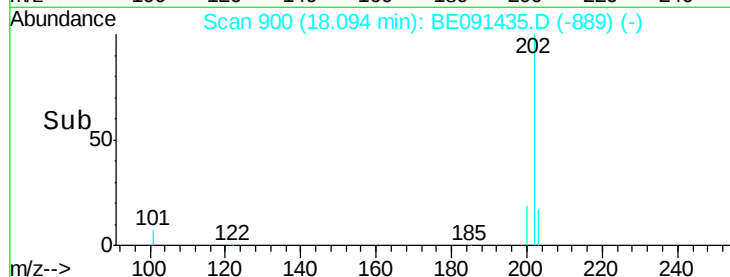
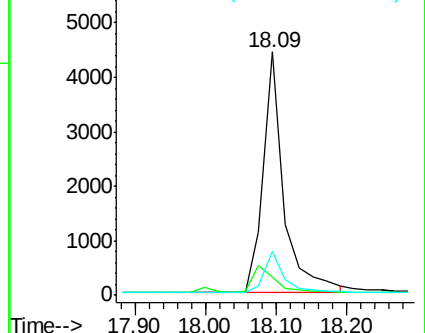
203 17.0 13.7 20.5



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: BE091435.D

Acq: 3 Mar 2016 22:48

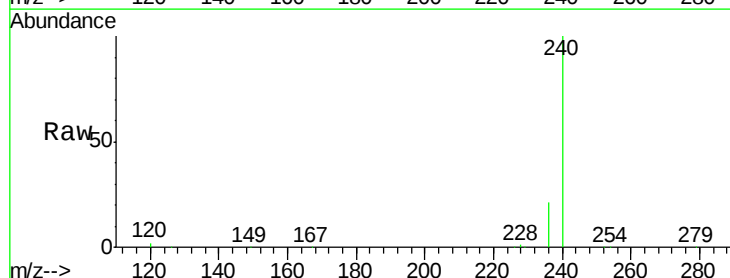
Tgt Ion:240 Resp: 252187

Ion Ratio Lower Upper

240 100

120 2.0 1.4 2.0

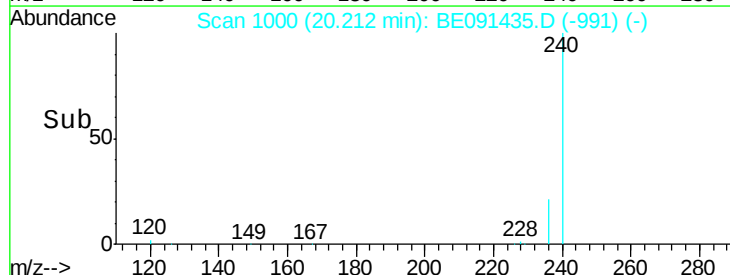
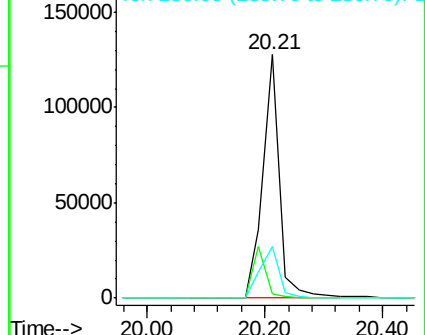
236 21.3 16.7 25.1

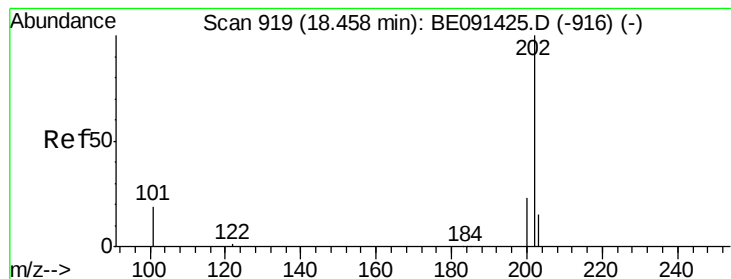


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#20

Pyrene

Concen: 0.13 ng

RT: 18.48 min Scan# 920

Delta R.T. 0.02 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

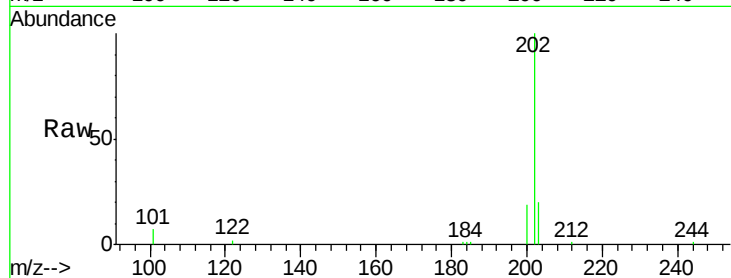
Tgt Ion:202 Resp: 9486

Ion Ratio Lower Upper

202 100

200 20.9 16.5 24.7

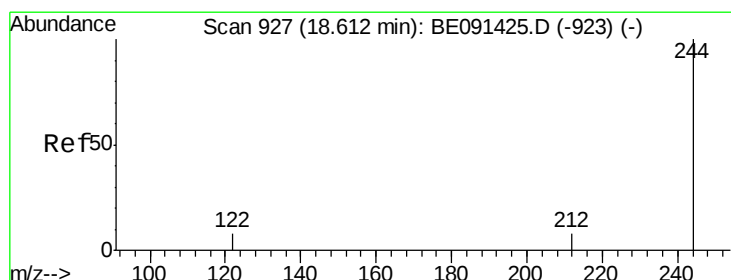
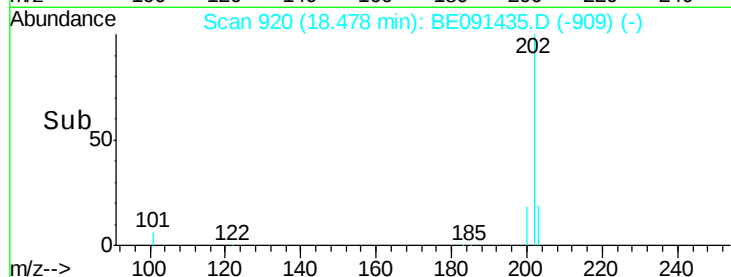
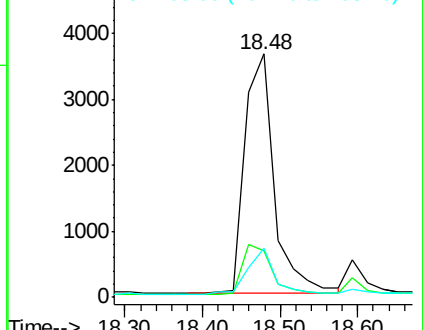
203 17.4 13.8 20.6



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: 4.79 ng

RT: 18.59 min Scan# 926

Delta R.T. -0.02 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

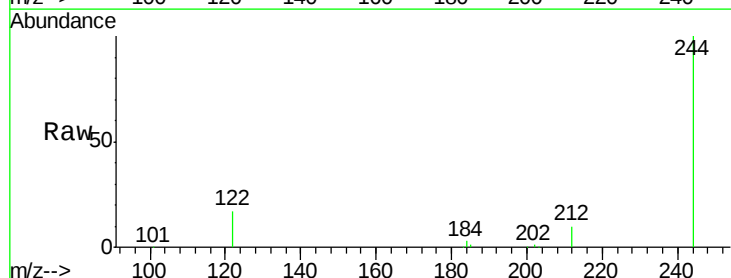
Tgt Ion:244 Resp: 183978

Ion Ratio Lower Upper

244 100

212 9.9 7.0 10.6

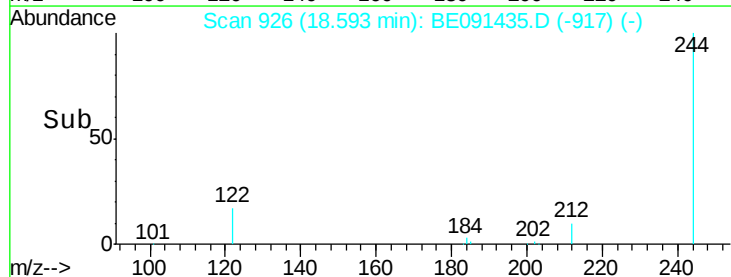
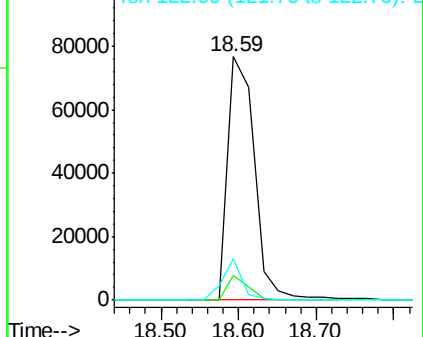
122 16.8 6.8 10.2#

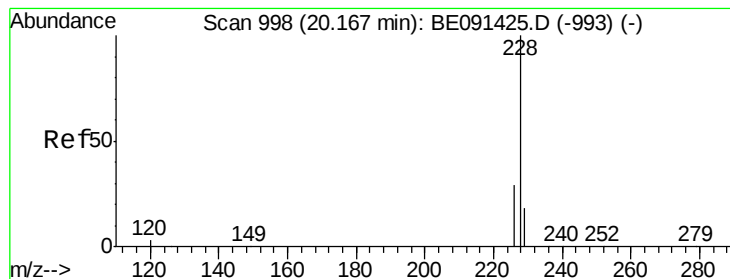


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#22

Benzo(a)anthracene

Concen: 0.13 ng

RT: 20.17 min Scan# 998

Delta R.T. -0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

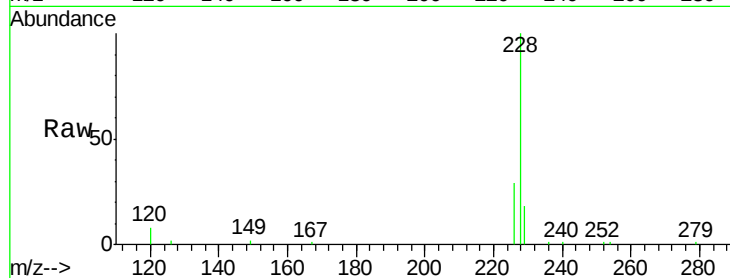
Tgt Ion:228 Resp: 11081

Ion Ratio Lower Upper

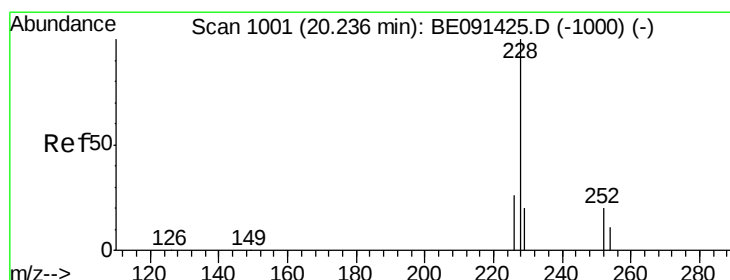
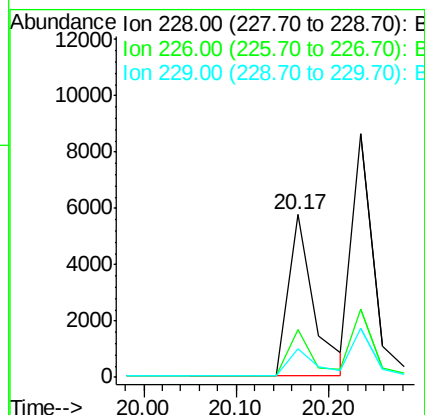
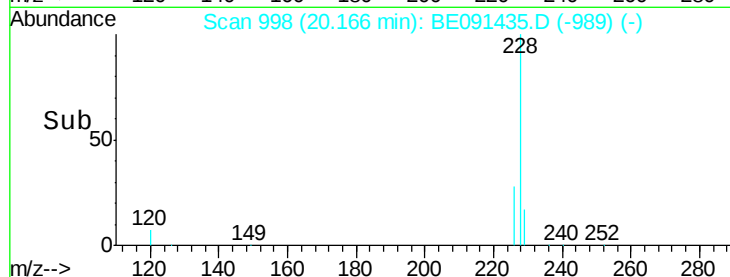
228 100

226 29.0 23.1 34.7

229 17.8 14.5 21.7



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



#23

Chrysene

Concen: 0.15 ng

RT: 20.24 min Scan# 1001

Delta R.T. -0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

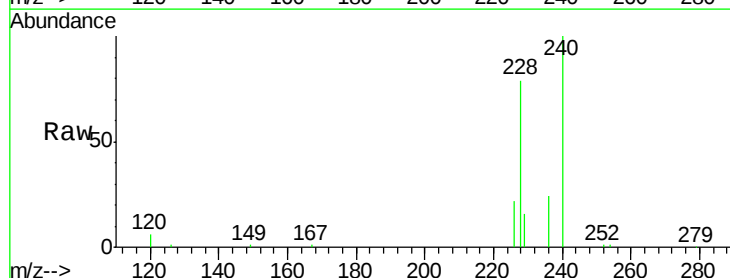
Tgt Ion:228 Resp: 13772

Ion Ratio Lower Upper

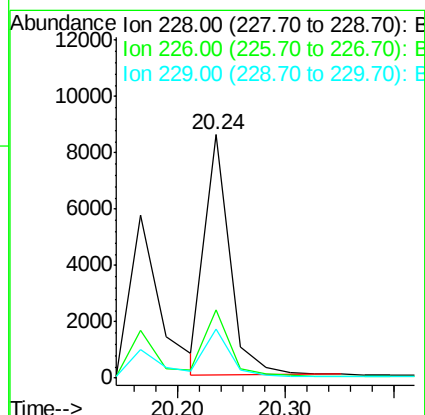
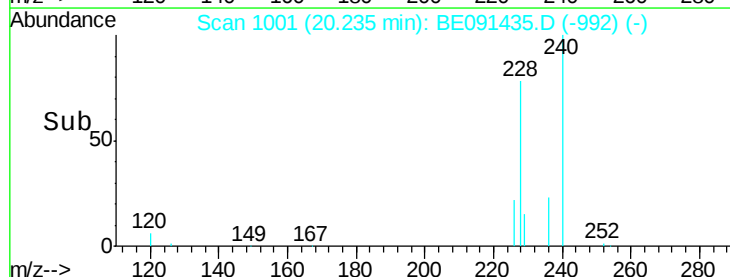
228 100

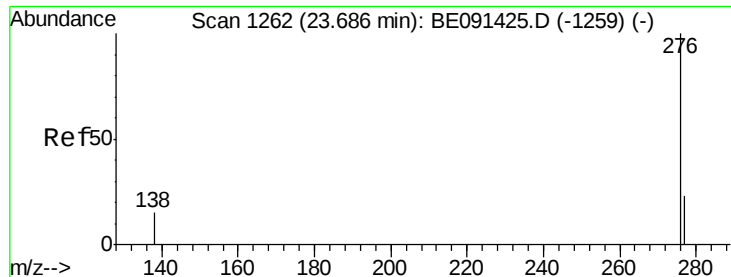
226 28.2 22.0 33.0

229 20.0 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

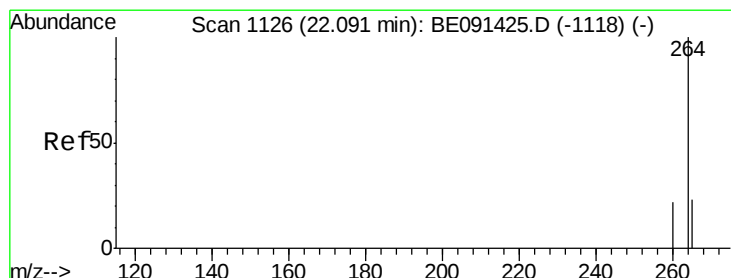
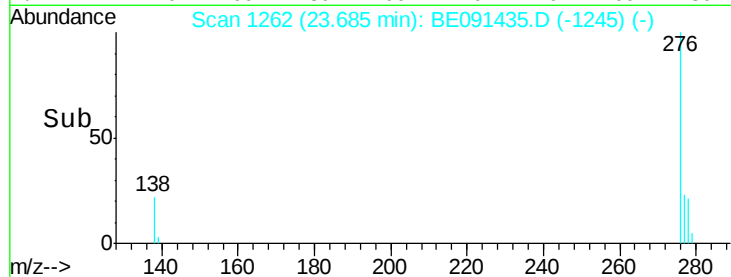
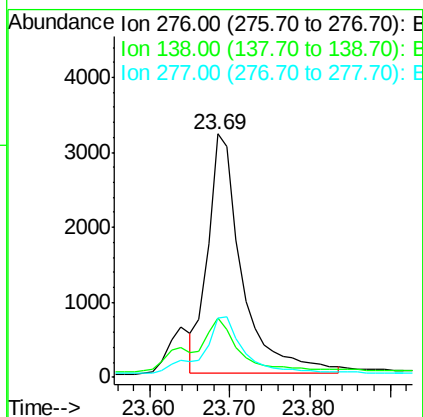
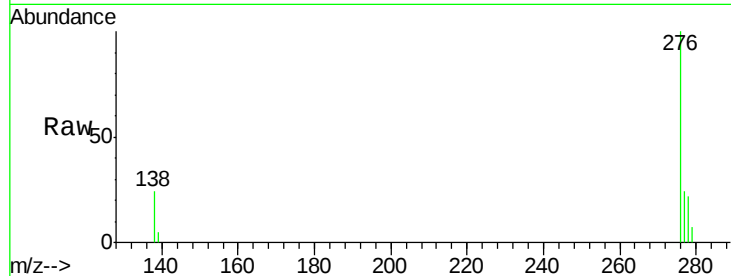




#24
 Indeno(1,2,3-cd)pyrene
 Concen: 0.13 ng m
 RT: 23.69 min Scan# 1262
 Delta R.T. -0.00 min
 Lab File: BE091435.D
 Acq: 3 Mar 2016 22:48

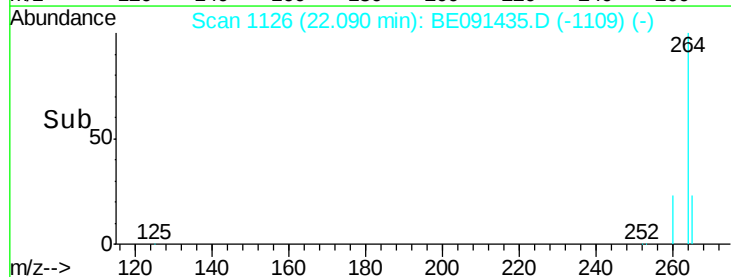
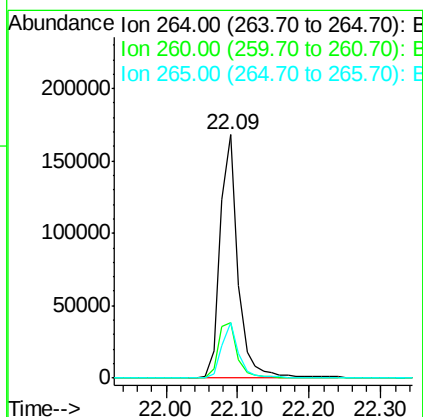
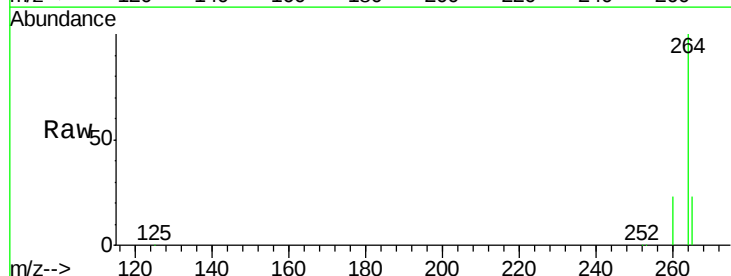
Instrument :
 BNA_E
 ClientSampleId :
 MDL-04-S

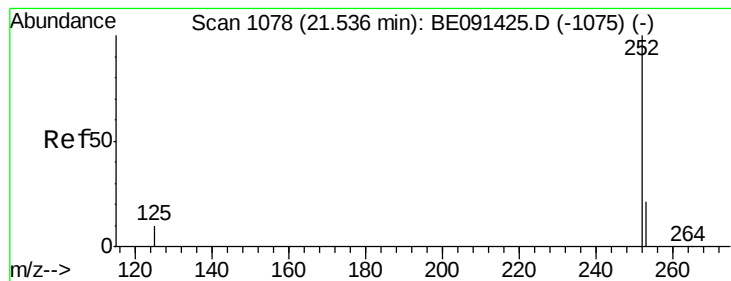
Tgt Ion: 276 Resp: 9546
 Ion Ratio Lower Upper
 276 100
 138 30.3 16.1 24.1#
 277 28.7 22.9 34.3



#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 22.09 min Scan# 1126
 Delta R.T. -0.00 min
 Lab File: BE091435.D
 Acq: 3 Mar 2016 22:48

Tgt Ion: 264 Resp: 291572
 Ion Ratio Lower Upper
 264 100
 260 22.6 18.0 27.0
 265 22.9 18.2 27.4





#26

Benzo(b)fluoranthene

Concen: 0.15 ng m

RT: 21.53 min Scan# 1078

Delta R.T. -0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

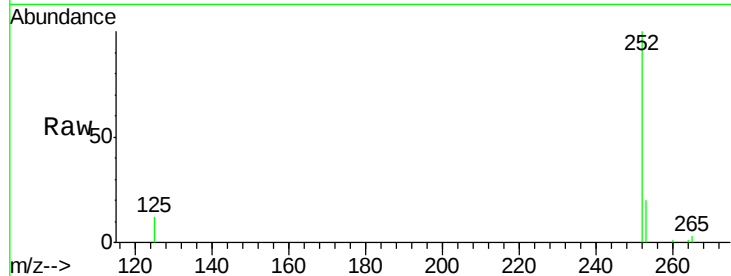
Tgt Ion:252 Resp: 12477

Ion Ratio Lower Upper

252 100

253 20.3 17.0 25.4

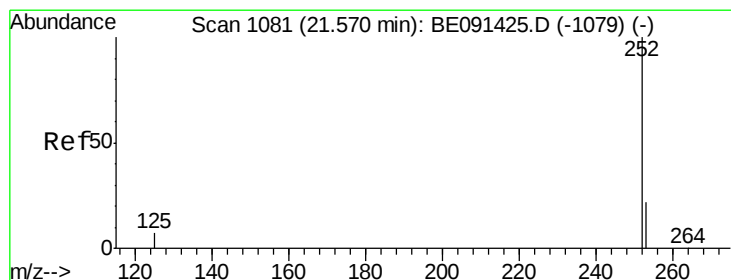
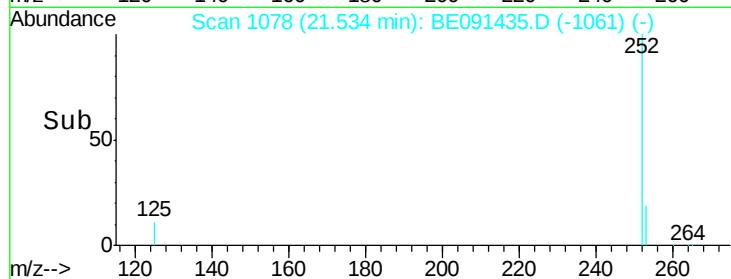
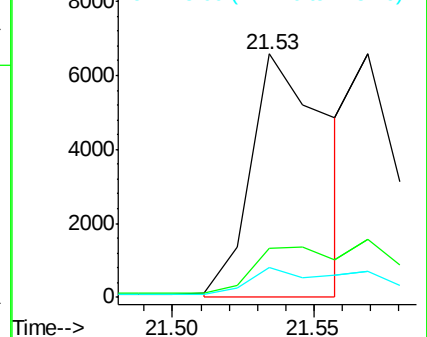
125 12.0 8.3 12.5



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



#27

Benzo(k)fluoranthene

Concen: 0.13 ng m

RT: 21.57 min Scan# 1081

Delta R.T. -0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

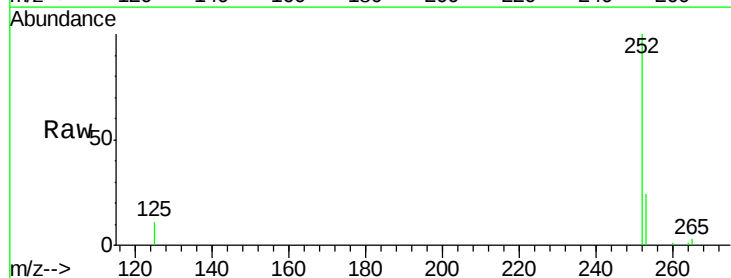
Tgt Ion:252 Resp: 9967

Ion Ratio Lower Upper

252 100

253 23.6 19.5 29.3

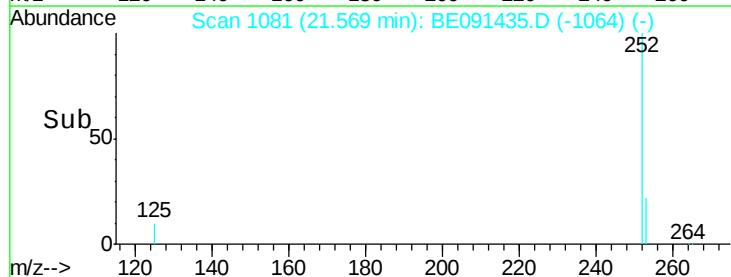
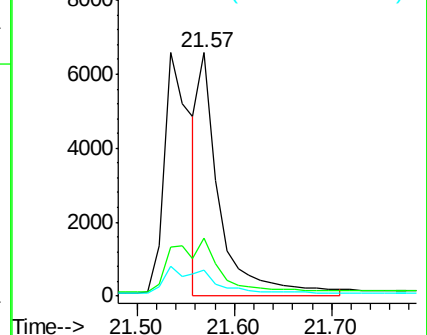
125 10.8 7.3 10.9

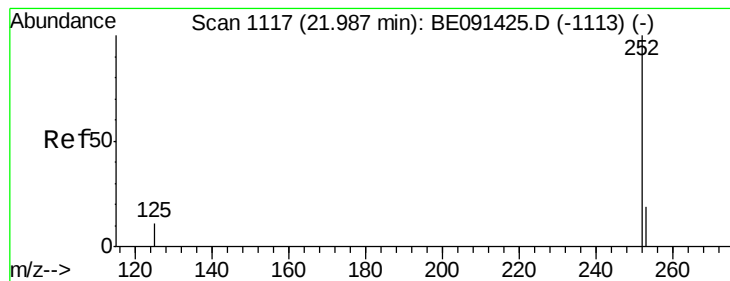


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#28

Benzo(a)pyrene

Concen: 0.13 ng

RT: 21.99 min Scan# 1117

Delta R.T. -0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S

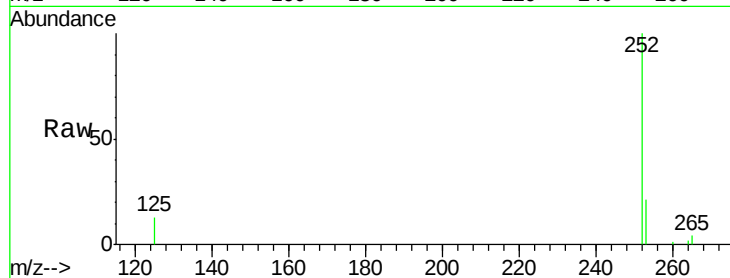
Tgt Ion:252 Resp: 9294

Ion Ratio Lower Upper

252 100

253 21.4 16.2 24.4

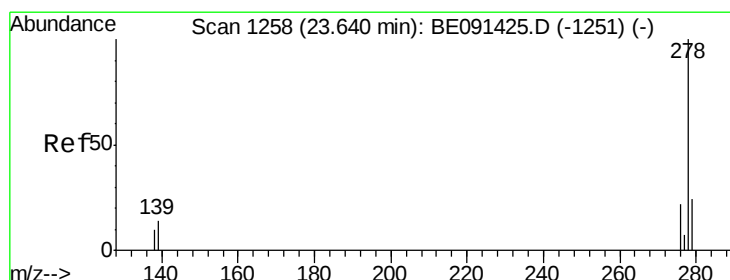
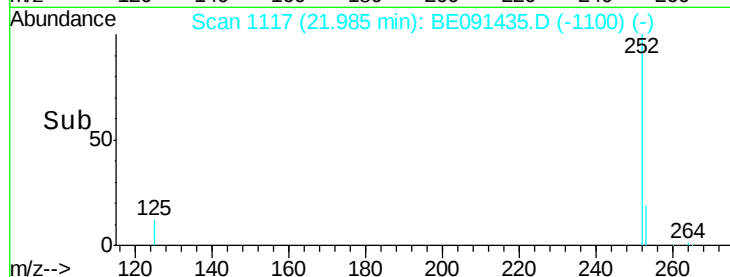
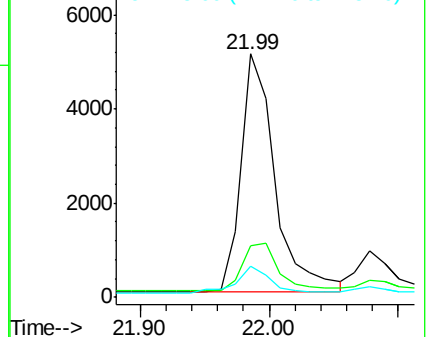
125 13.0 9.6 14.4



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: 0.13 ng

RT: 23.64 min Scan# 1258

Delta R.T. -0.00 min

Lab File: BE091435.D

Acq: 3 Mar 2016 22:48

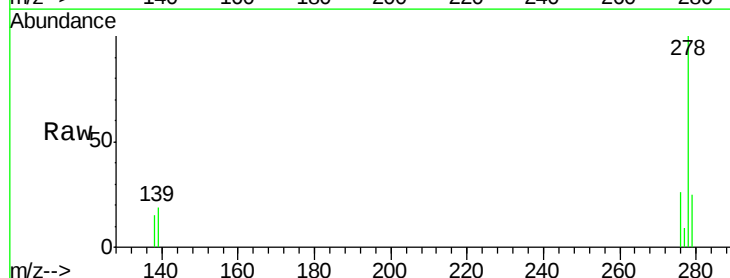
Tgt Ion:278 Resp: 8473

Ion Ratio Lower Upper

278 100

139 19.4 12.1 18.1#

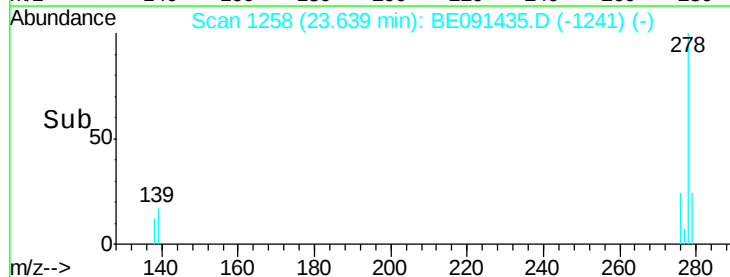
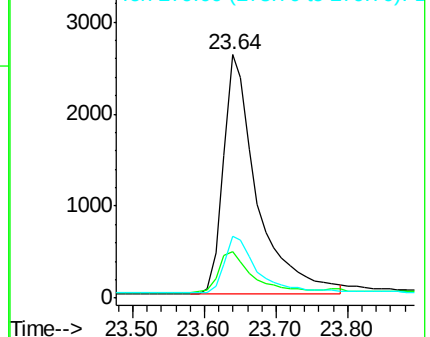
279 25.3 19.4 29.0

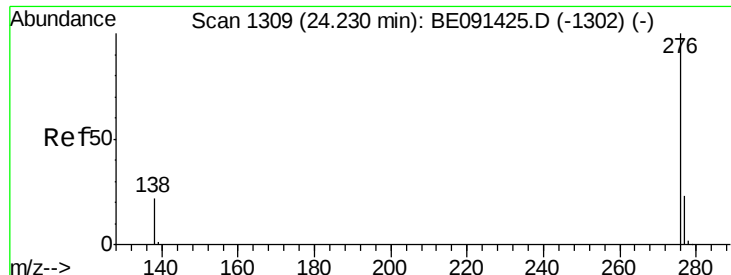


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.13 ng

RT: 24.24 min Scan# 1310

Delta R.T. 0.01 min

Lab File: BE091435.D

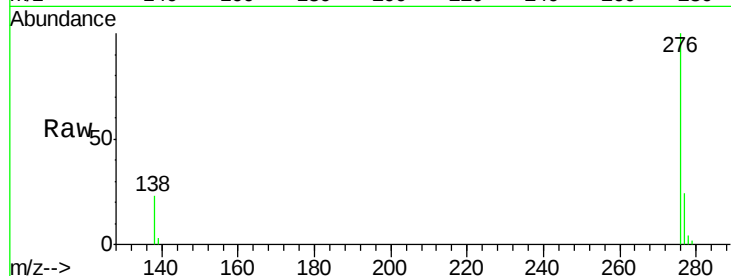
Acq: 3 Mar 2016 22:48

Instrument :

BNA_E

ClientSampleId :

MDL-04-S



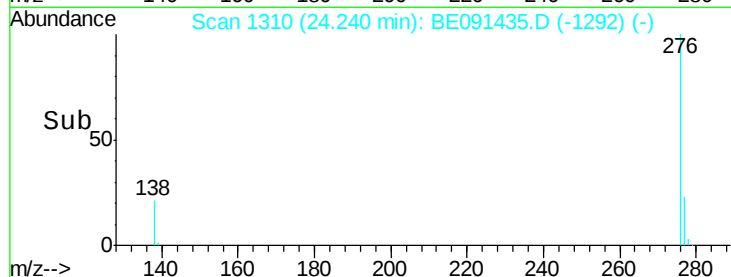
Tgt Ion: 276 Resp: 9776

Ion Ratio Lower Upper

276 100

277 23.9 19.0 28.6

138 23.5 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

