

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE052316\
 Data File : BE091850.D
 Acq On : 23 May 2016 16:52
 Operator : UM/SJ
 Sample : H3156-01MS
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MS

Quant Time: May 24 02:21:22 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE051916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 19 15:36:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	23400	5.00	ng	-0.02
7) Naphthalene-d8	10.55	136	128221	5.00	ng	-0.02
13) Acenaphthene-d10	14.39	164	87947	5.00	ng	-0.03
19) Phenanthrene-d10	17.14	188	239361	5.00	ng	-0.01
26) Chrysene-d12	21.29	240	273520	5.00	ng	-0.02
35) Perylene-d12	23.73	264	236314	5.00	ng	-0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	51045	8.35	ng	0.00
5) Phenol-d6	6.96	99	87535	10.16	ng	0.00
8) Nitrobenzene-d5	8.93	82	43412	5.11	ng	-0.01
14) 2,4,6-Tribromophenol	15.89	330	35389	10.36	ng	-0.01
15) 2-Fluorobiphenyl	13.02	172	122568	4.93	ng	-0.01
29) Terphenyl-d14	19.74	244	200137	5.17	ng	-0.02

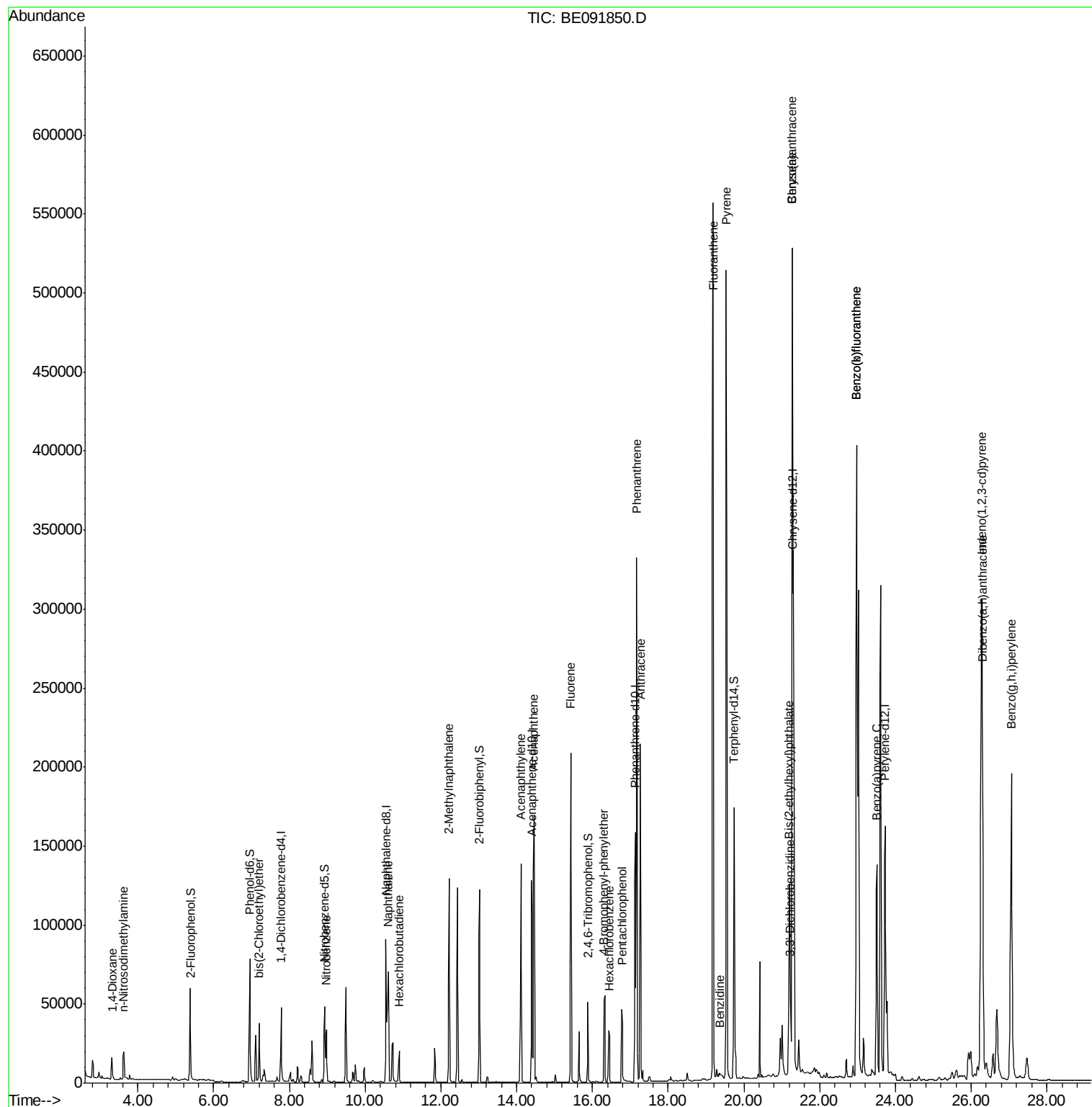
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.32	88	9690	3.79	ng	95
3) n-Nitrosodimethylamine	3.61	42	16152	4.32	ng	98
6) bis(2-Chloroethyl)ether	7.20	93	30556	4.42	ng	# 78
9) Nitrobenzene	8.98	77	41072	4.70	ng	93
10) Naphthalene	10.61	128	114864	4.05	ng	97
11) Hexachlorobutadiene	10.90	225	19285	4.59	ng	97
12) 2-Methylnaphthalene	12.21	142	90354	4.73	ng	98
16) Acenaphthylene	14.11	152	173209	4.42	ng	# 86
17) Acenaphthene	14.46	154	100780	4.27	ng	91
18) Fluorene	15.43	166	133862	4.38	ng	98
20) 4-Bromophenyl-phenylether	16.31	248	38774	4.33	ng	92
21) Hexachlorobenzene	16.45	284	38335	4.12	ng	98
22) Pentachlorophenol	16.77	266	40865	10.61	ng	# 85
23) Phenanthrene	17.17	178	350738	7.51	ng	99
24) Anthracene	17.26	178	233191	4.48	ng	97
25) Fluoranthene	19.19	202	725196	11.40	ng	97
27) Benzidine	19.36	184	6264	0.39	ng	# 83
28) Pyrene	19.53	202	666841	11.11	ng	96
30) Benzo(a)anthracene	21.27	228	999405	15.15	ng	96
31) 3,3'-Dichlorobenzidine	21.22	252	45327	1.08	ng	# 76
32) Chrysene	21.27	228	999948	17.56	ng	98
33) Bis(2-ethylhexyl)phthalate	21.20	149	144481	3.90	ng	# 83
34) Indeno(1,2,3-cd)pyrene	26.27	276	501784	7.42	ng	# 92
36) Benzo(b)fluoranthene	22.98	252	635687	10.75	ng	# 97
37) Benzo(k)fluoranthene	22.98	252	635687	10.50	ng	97
38) Benzo(a)pyrene	23.51	252	207754	3.68	ng	98
39) Dibenzo(a,h)anthracene	26.29	278	284661	5.17	ng	# 94
40) Benzo(g,h,i)perylene	27.06	276	455409	8.01	ng	95

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

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.79 min Scan# 299

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

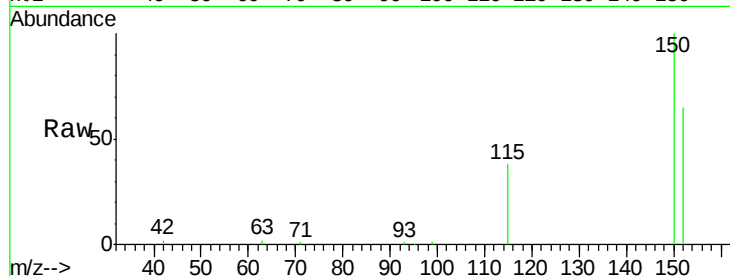
Tgt Ion:152 Resp: 23400

Ion Ratio Lower Upper

152 100

150 154.2 122.6 183.8

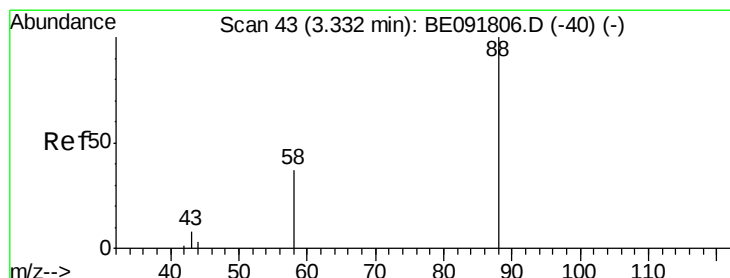
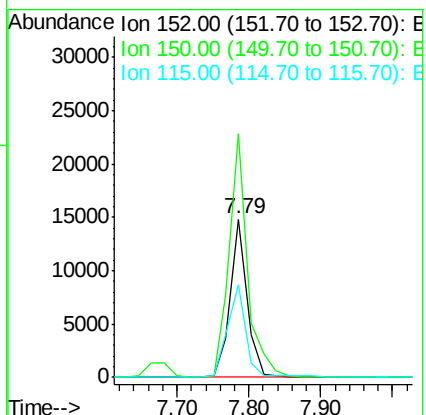
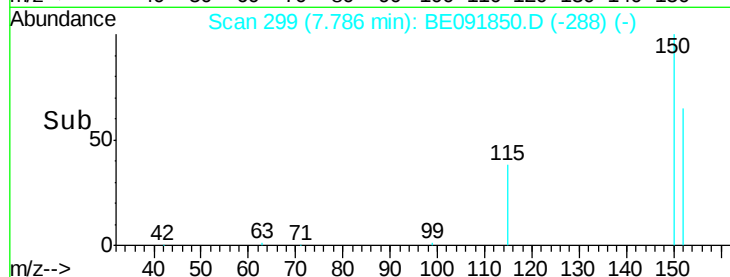
115 58.9 52.8 79.2



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: 3.79 ng

RT: 3.32 min Scan# 42

Delta R.T. -0.01 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

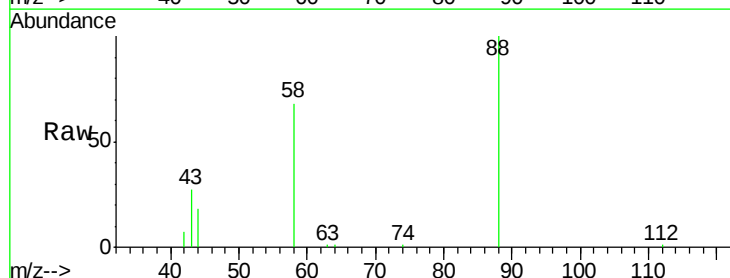
Tgt Ion: 88 Resp: 9690

Ion Ratio Lower Upper

88 100

58 78.3 65.8 98.6

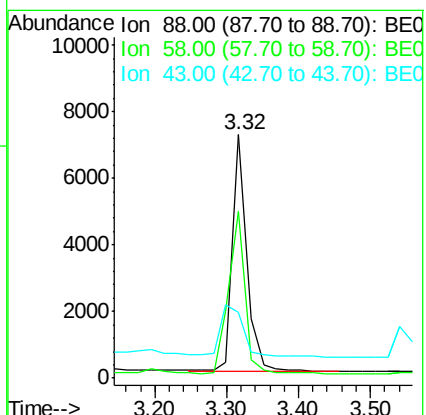
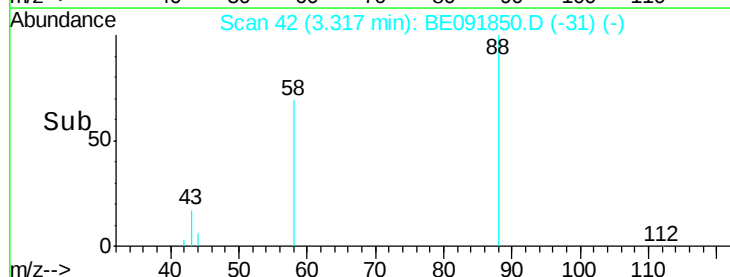
43 35.6 25.3 37.9

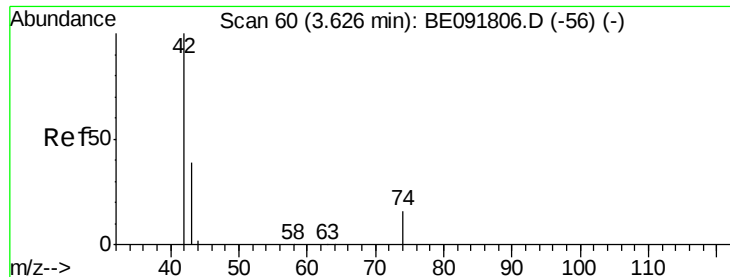


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 4.32 ng

RT: 3.61 min Scan# 59

Delta R.T. -0.01 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

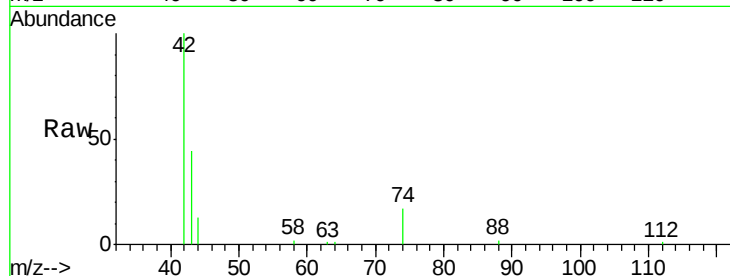
Tgt Ion: 42 Resp: 16152

Ion Ratio Lower Upper

42 100

74 108.2 87.9 131.9

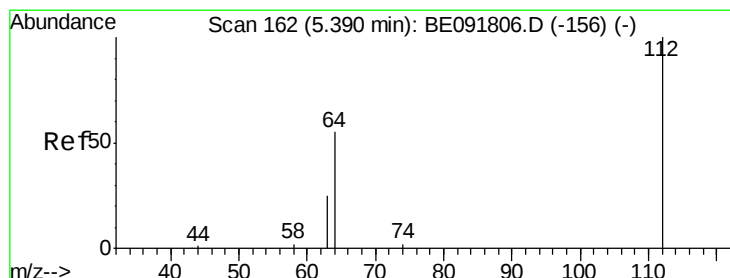
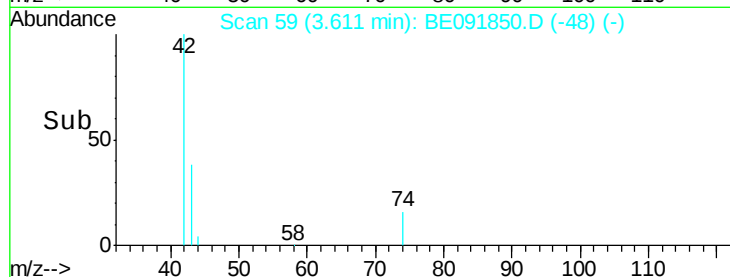
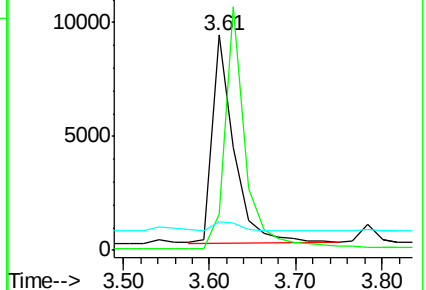
44 6.8 6.6 9.8



Abundance Ion 42.00 (41.70 to 42.70): BE0

Ion 74.00 (73.70 to 74.70): BE0

Ion 44.00 (43.70 to 44.70): BE0



#4

2-Fluorophenol

Concen: 8.35 ng

RT: 5.39 min Scan# 162

Delta R.T. 0.00 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

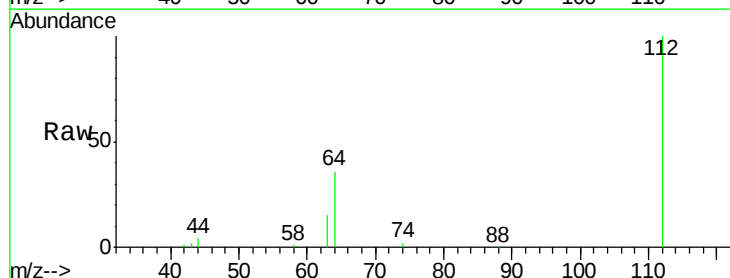
Tgt Ion: 112 Resp: 51045

Ion Ratio Lower Upper

112 100

64 68.5 30.9 46.3#

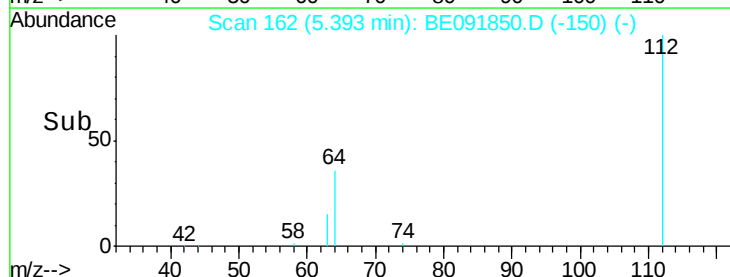
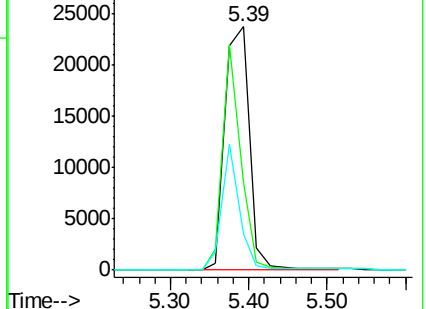
63 36.6 16.7 25.1#

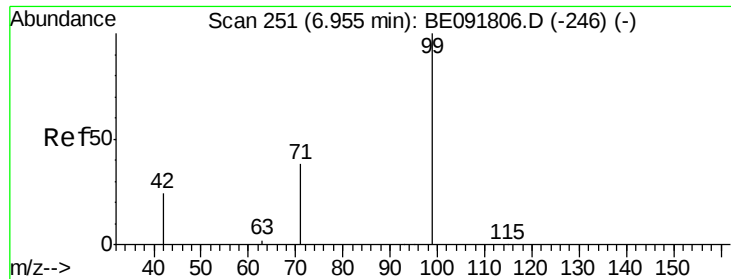


Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 10.16 ng

RT: 6.96 min Scan# 251

Delta R.T. 0.00 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

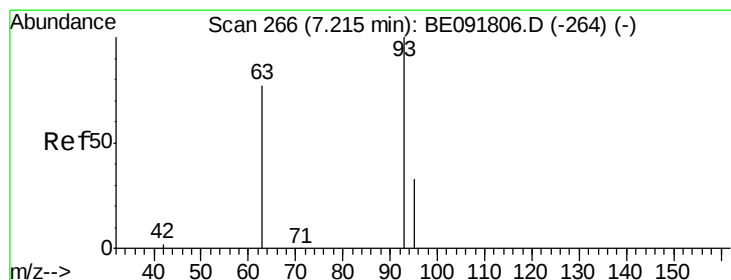
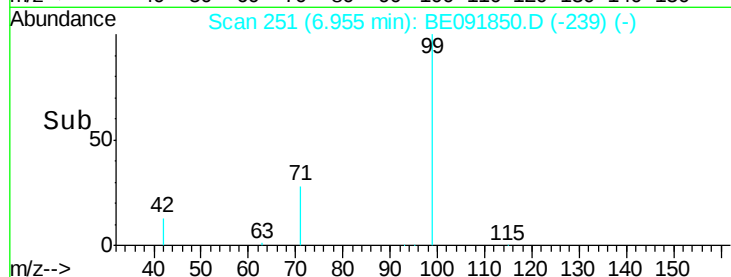
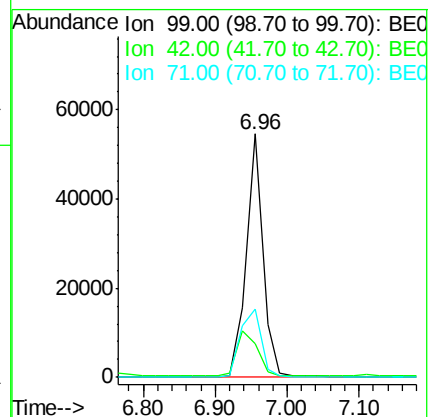
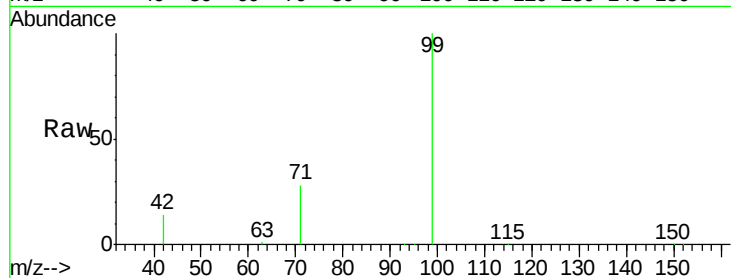
Tgt Ion: 99 Resp: 87535

Ion Ratio Lower Upper

99 100

42 23.2 16.2 24.2

71 35.1 29.0 43.4



#6

bis(2-Chloroethyl)ether

Concen: 4.42 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

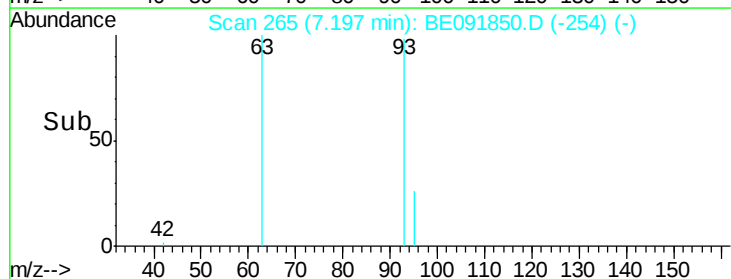
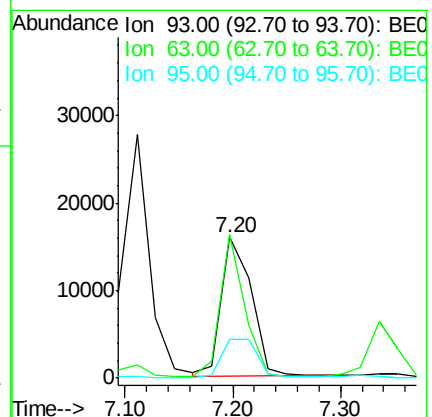
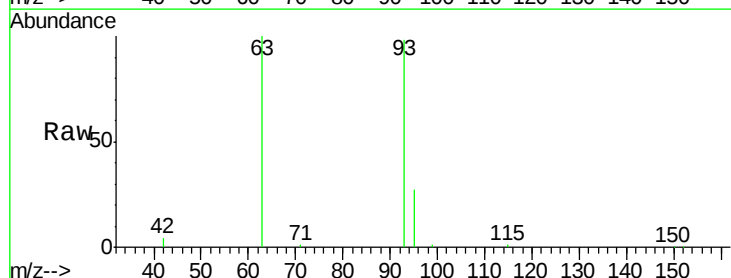
Tgt Ion: 93 Resp: 30556

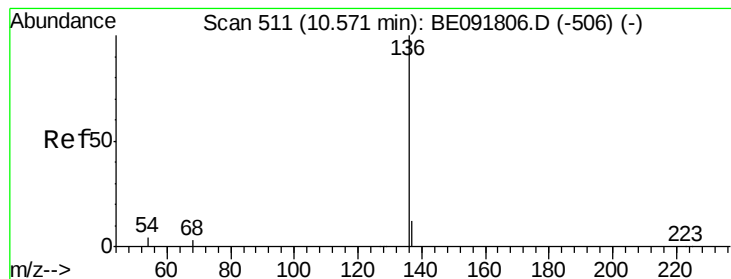
Ion Ratio Lower Upper

93 100

63 83.8 49.5 74.3#

95 31.6 22.2 33.4





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 510

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

Tgt Ion: 136 Resp: 128221

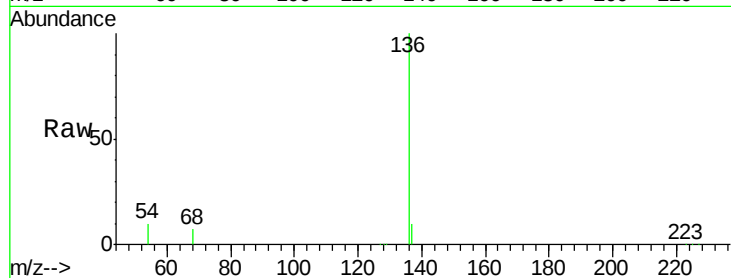
Ion Ratio Lower Upper

136 100

137 10.4 8.9 13.3

54 9.7 8.2 12.4

68 7.2 6.2 9.4

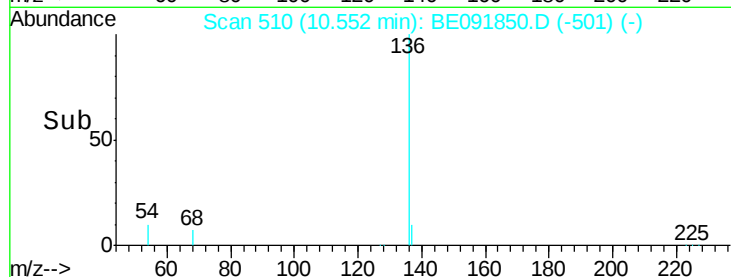


Abundance Ion 136.00 (135.70 to 136.70): E

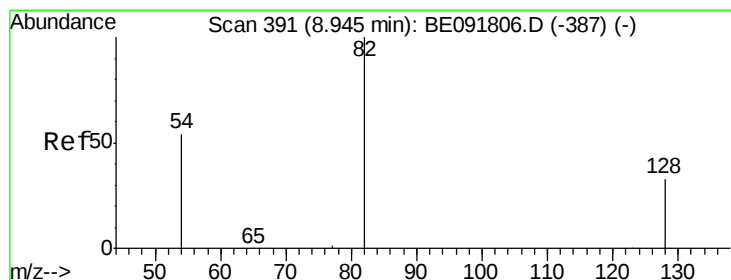
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



Time-->



#8

Nitrobenzene-d5

Concen: 5.11 ng

RT: 8.93 min Scan# 390

Delta R.T. -0.01 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

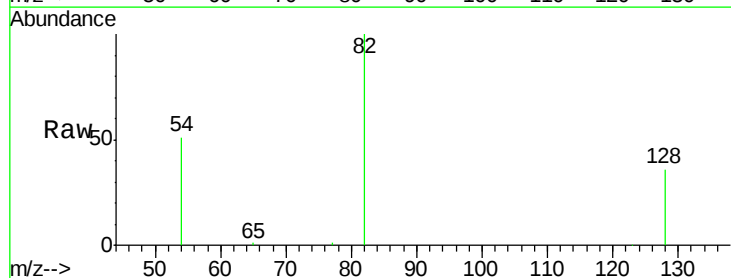
Tgt Ion: 82 Resp: 43412

Ion Ratio Lower Upper

82 100

128 35.5 25.4 38.0

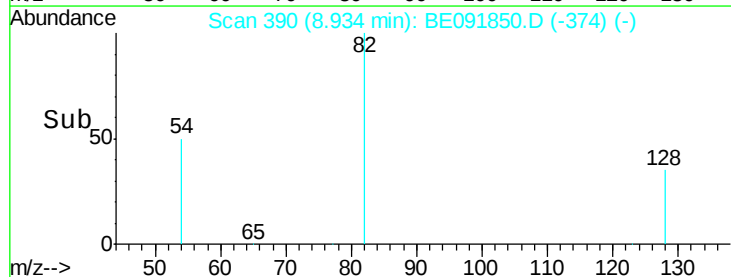
54 50.7 48.4 72.6



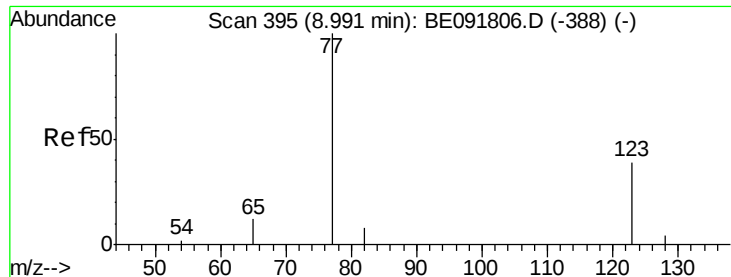
Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->



#9

Nitrobenzene

Concen: 4.70 ng

RT: 8.98 min Scan# 394

Delta R.T. -0.01 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

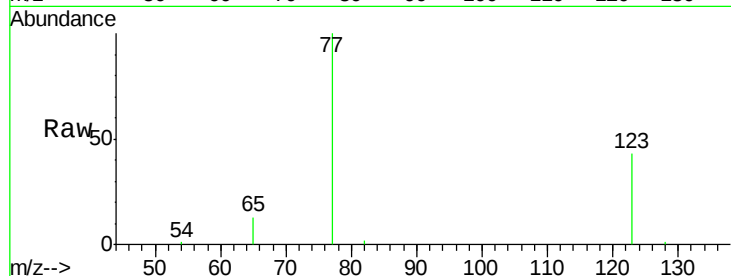
Tgt Ion: 77 Resp: 41072

Ion Ratio Lower Upper

77 100

123 38.1 26.9 40.3

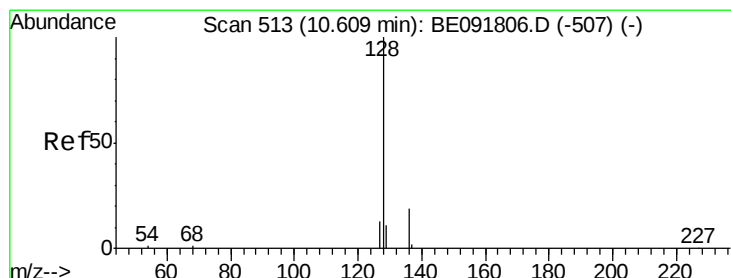
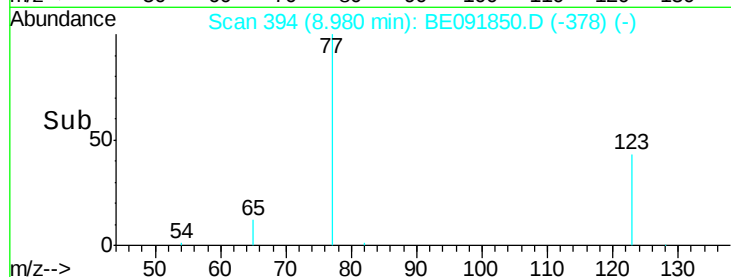
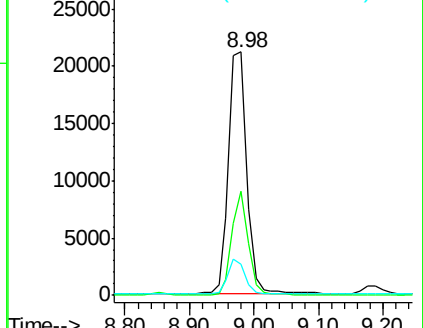
65 13.7 9.4 14.2



Abundance Ion 77.00 (76.70 to 77.70): BE091806.D (-388) (-)

Ion 123.00 (122.70 to 123.70): BE091806.D (-388) (-)

Ion 65.00 (64.70 to 65.70): BE091806.D (-388) (-)



#10

Naphthalene

Concen: 4.05 ng

RT: 10.61 min Scan# 513

Delta R.T. -0.00 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

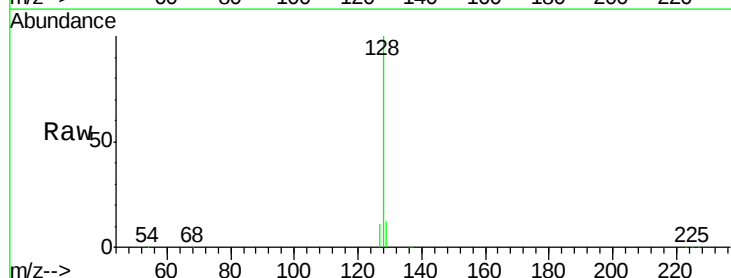
Tgt Ion: 128 Resp: 114864

Ion Ratio Lower Upper

128 100

129 12.1 9.3 13.9

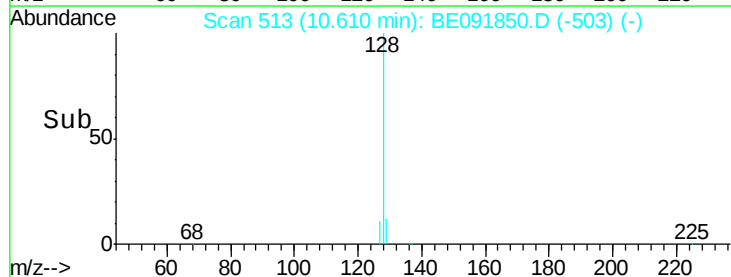
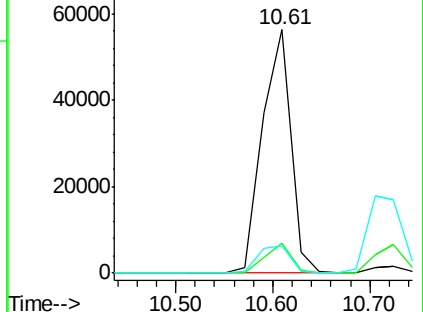
127 11.5 10.7 16.1

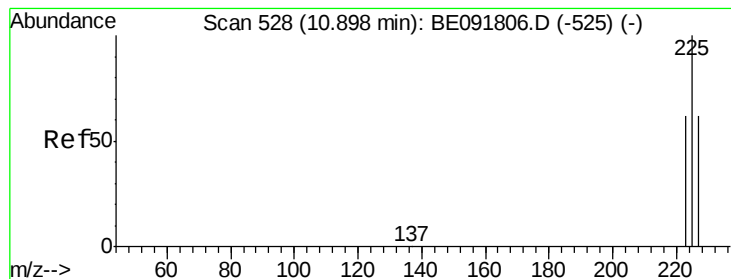


Abundance Ion 128.00 (127.70 to 128.70): BE091806.D (-507) (-)

Ion 129.00 (128.70 to 129.70): BE091806.D (-507) (-)

Ion 127.00 (126.70 to 127.70): BE091806.D (-507) (-)





#11

Hexachlorobutadiene

Concen: 4.59 ng

RT: 10.90 min Scan# 528

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

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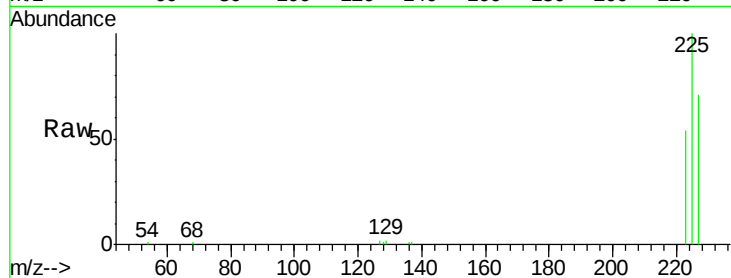
Tgt Ion: 225 Resp: 19285

Ion Ratio Lower Upper

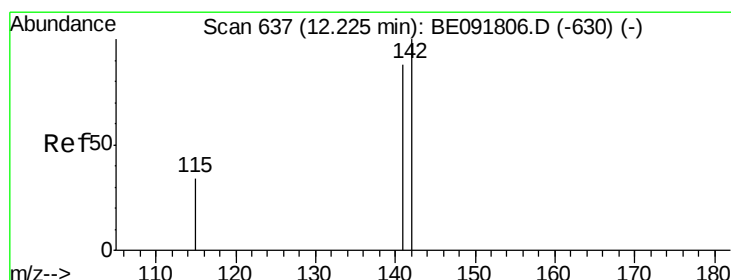
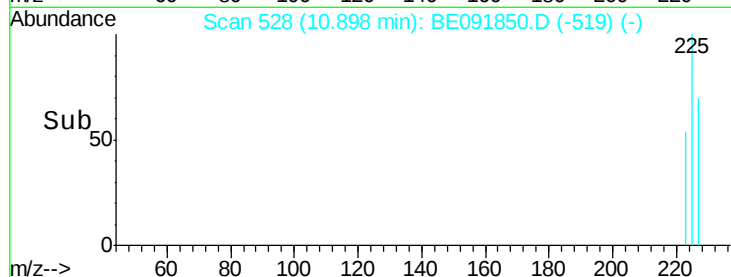
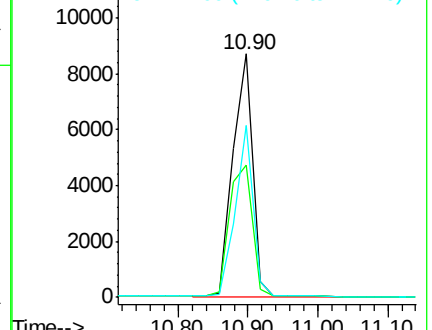
225 100

223 63.7 49.0 73.6

227 64.5 50.3 75.5



Abundance Ion 225.00 (224.70 to 225.70): E
Ion 223.00 (222.70 to 223.70): E
Ion 227.00 (226.70 to 227.70): E



#12

2-Methylnaphthalene

Concen: 4.73 ng

RT: 12.21 min Scan# 636

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

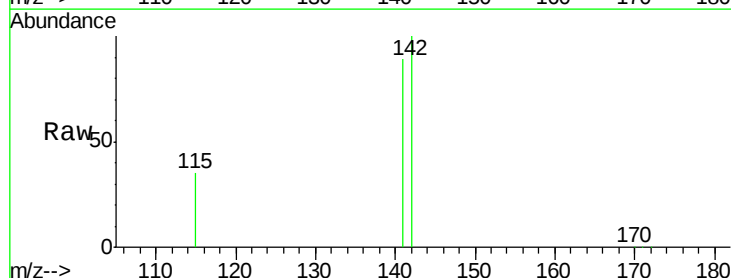
Tgt Ion: 142 Resp: 90354

Ion Ratio Lower Upper

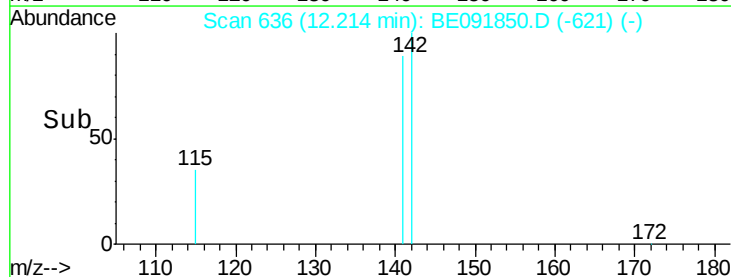
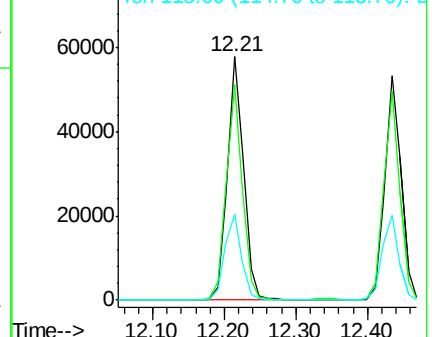
142 100

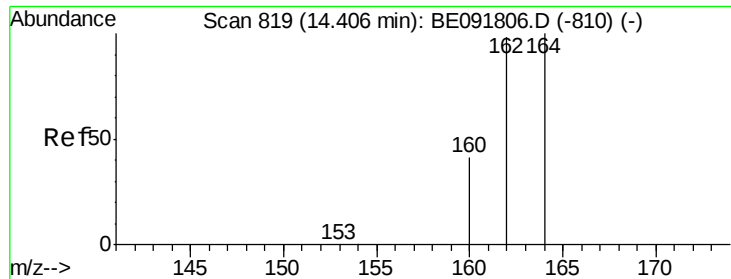
141 88.7 71.4 107.0

115 35.3 30.3 45.5



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.39 min Scan# 818

Delta R.T. -0.03 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

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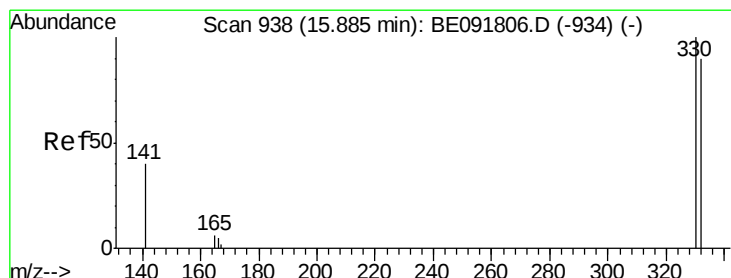
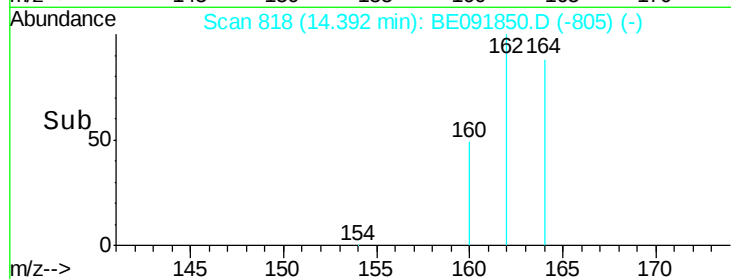
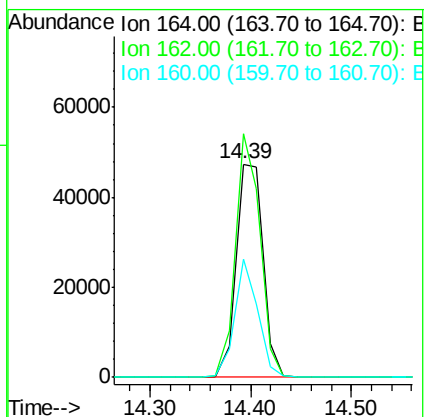
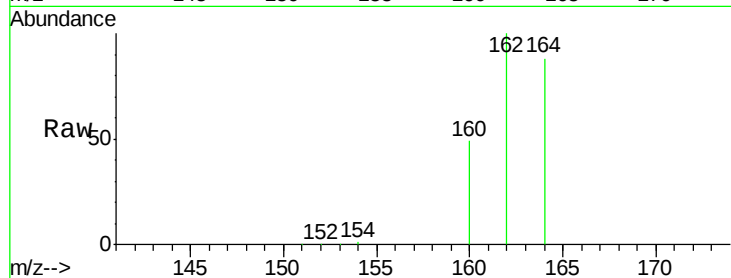
Tgt Ion:164 Resp: 87947

Ion Ratio Lower Upper

164 100

162 114.1 85.3 127.9

160 55.4 46.2 69.2



#14

2,4,6-Tribromophenol

Concen: 10.36 ng

RT: 15.89 min Scan# 938

Delta R.T. -0.01 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

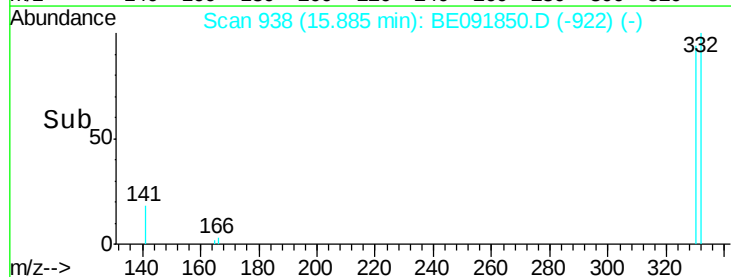
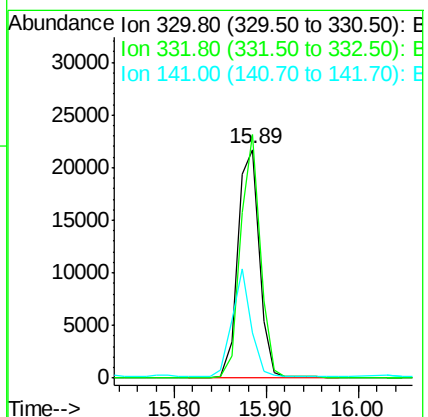
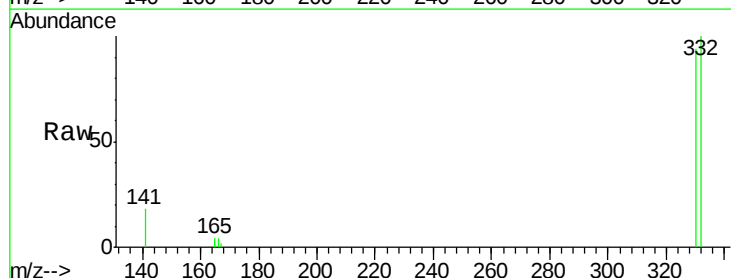
Tgt Ion:330 Resp: 35389

Ion Ratio Lower Upper

330 100

332 97.0 79.1 118.7

141 41.5 125.4 188.0#

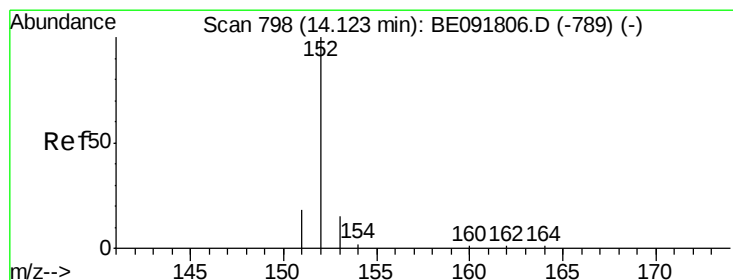
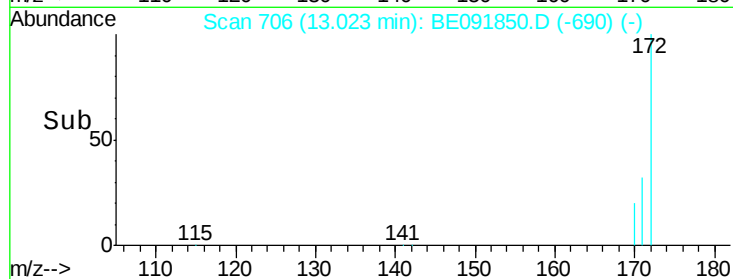
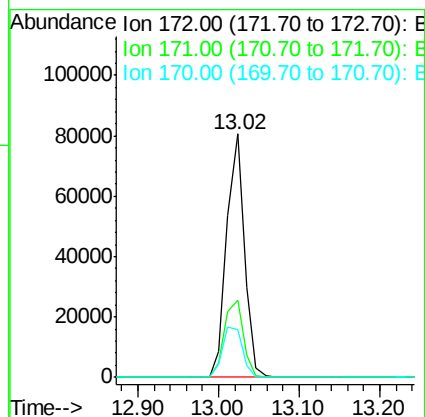
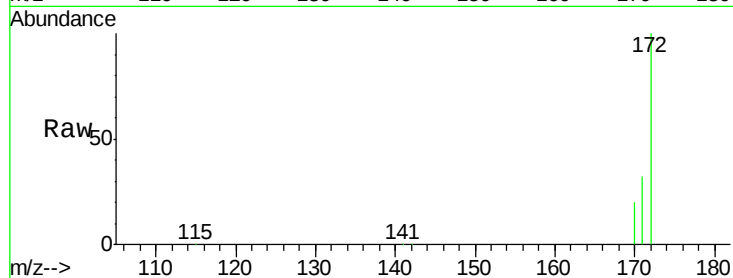




#15
2-Fluorobiphenyl
Concen: 4.93 ng
RT: 13.02 min Scan# 706
Delta R.T. -0.01 min
Lab File: BE091850.D
Acq: 23 May 2016 16:52

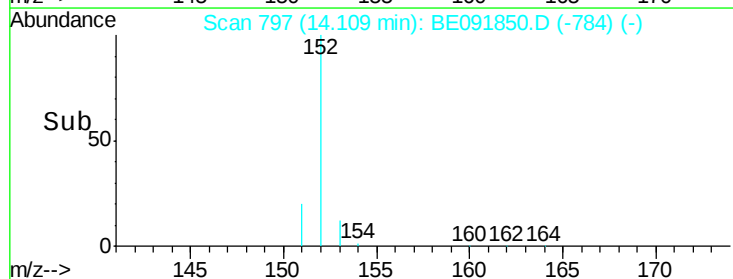
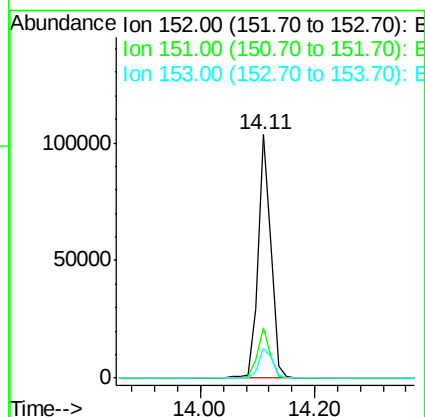
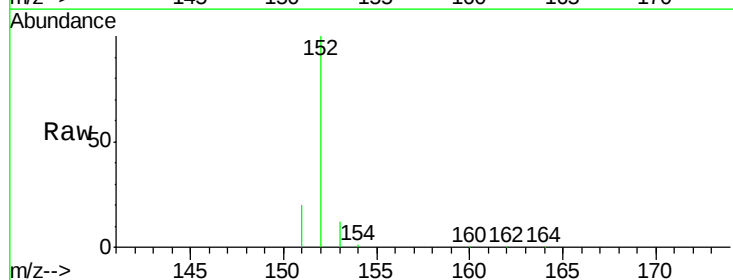
Instrument :
BNA_E
ClientSampleId :
SP-001-160517MS

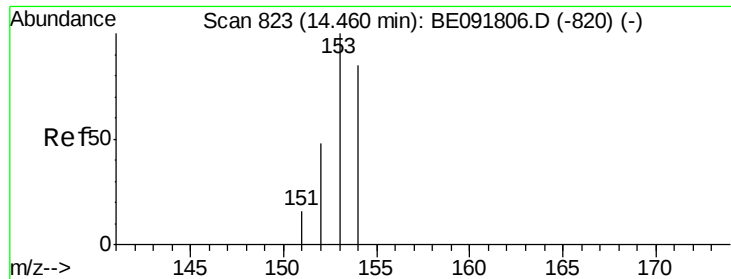
Tgt Ion:172 Resp: 122568
Ion Ratio Lower Upper
172 100
171 32.0 28.8 43.2
170 19.7 19.3 28.9



#16
Acenaphthylene
Concen: 4.42 ng
RT: 14.11 min Scan# 797
Delta R.T. -0.01 min
Lab File: BE091850.D
Acq: 23 May 2016 16:52

Tgt Ion:152 Resp: 173209
Ion Ratio Lower Upper
152 100
151 20.4 3.9 5.9#
153 13.6 10.3 15.5

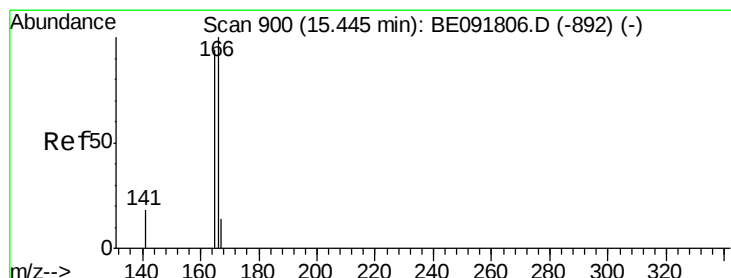
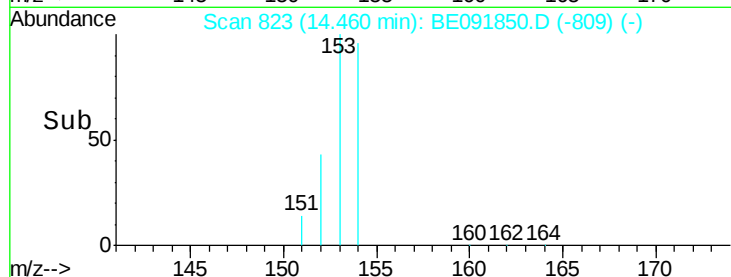
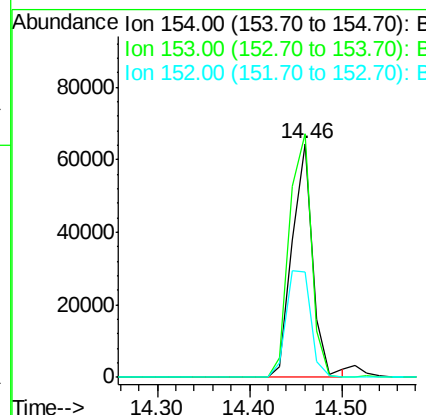
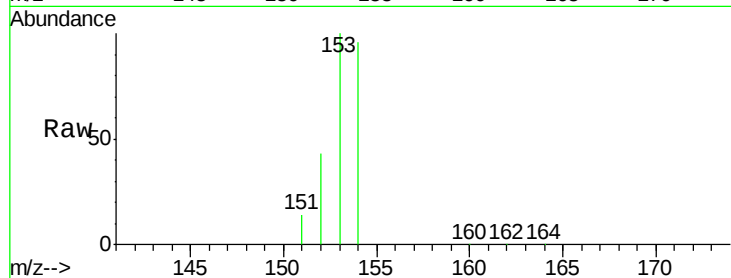




#17
Acenaphthene
Concen: 4.27 ng
RT: 14.46 min Scan# 823
Delta R.T. -0.01 min
Lab File: BE091850.D
Acq: 23 May 2016 16:52

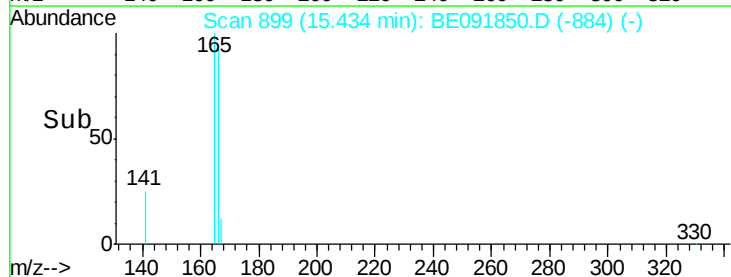
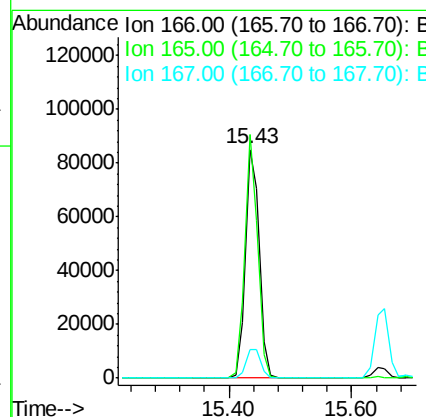
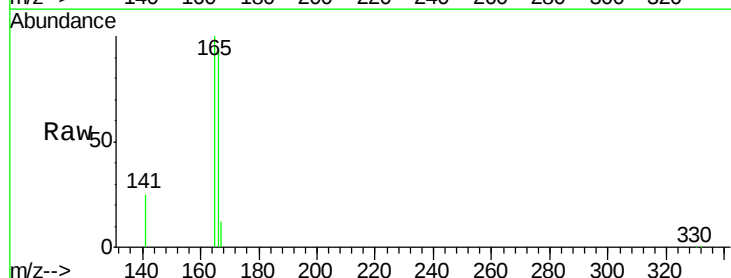
Instrument :
BNA_E
ClientSampleId :
SP-001-160517MS

Tgt Ion:154 Resp: 100780
Ion Ratio Lower Upper
154 100
153 111.3 80.0 120.0
152 53.9 40.0 60.0



#18
Fluorene
Concen: 4.38 ng
RT: 15.43 min Scan# 899
Delta R.T. -0.02 min
Lab File: BE091850.D
Acq: 23 May 2016 16:52

Tgt Ion:166 Resp: 133862
Ion Ratio Lower Upper
166 100
165 98.7 80.8 121.2
167 13.6 10.9 16.3

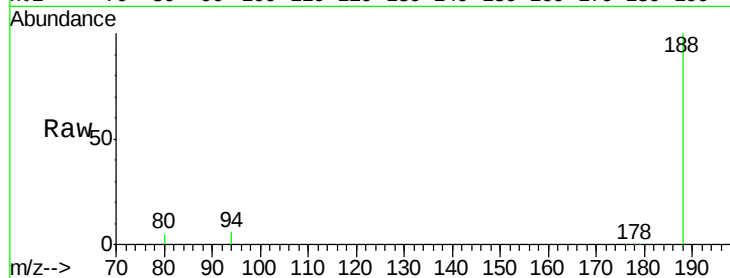




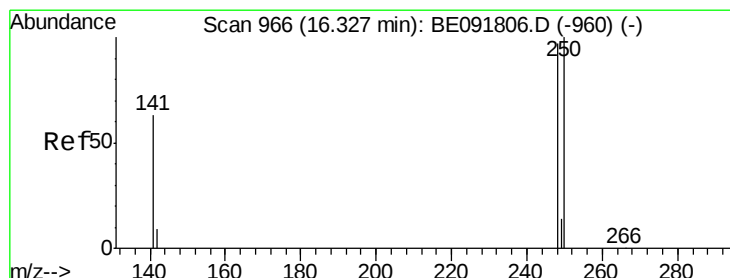
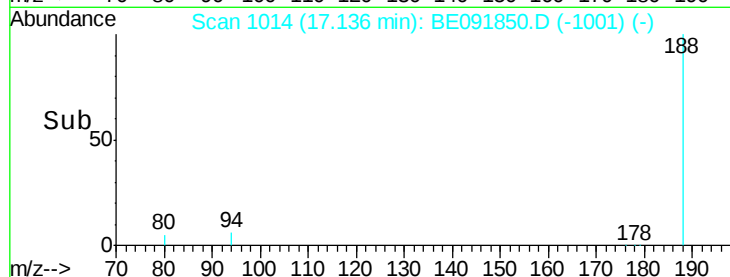
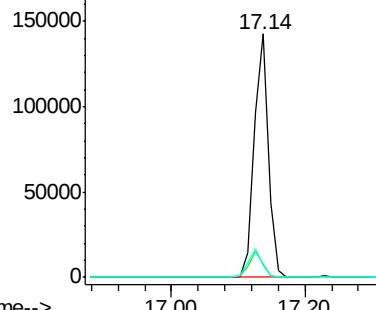
#19
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.14 min Scan# 1014
Delta R.T. -0.01 min
Lab File: BE091850.D
Acq: 23 May 2016 16:52

Instrument :
BNA_E
ClientSampleId :
SP-001-160517MS

Tgt Ion:188 Resp: 239361
Ion Ratio Lower Upper
188 100
94 5.7 8.7 13.1#
80 4.8 9.4 14.0#

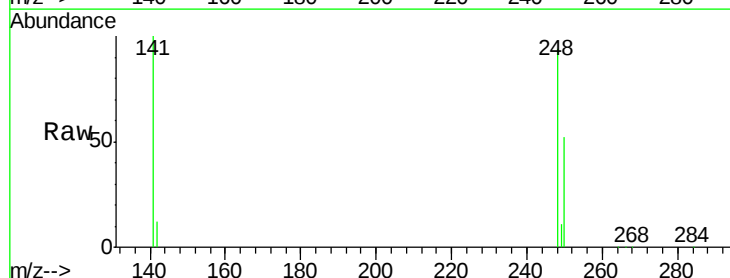


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

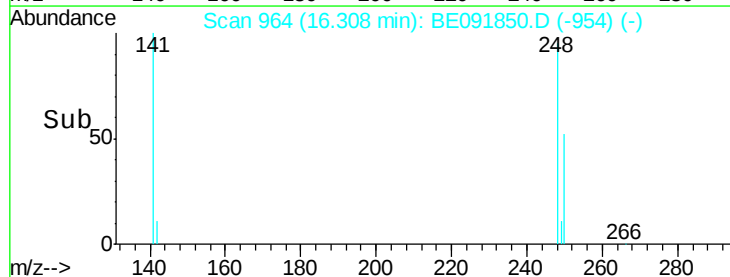
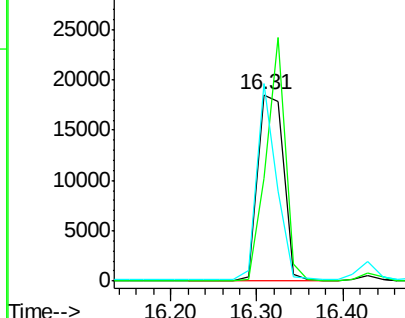


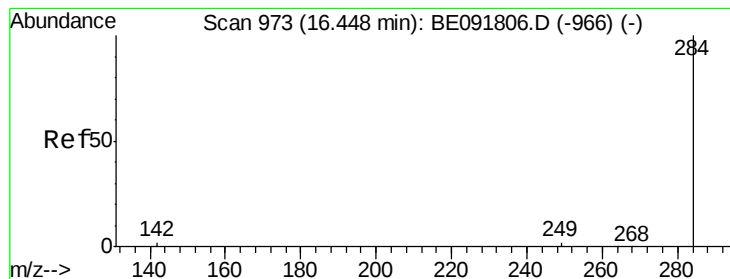
#20
4-Bromophenyl-phenylether
Concen: 4.33 ng
RT: 16.31 min Scan# 964
Delta R.T. -0.02 min
Lab File: BE091850.D
Acq: 23 May 2016 16:52

Tgt Ion:248 Resp: 38774
Ion Ratio Lower Upper
248 100
250 96.9 80.5 120.7
141 78.9 72.0 108.0



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 4.12 ng

RT: 16.45 min Scan# 972

Delta R.T. -0.00 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

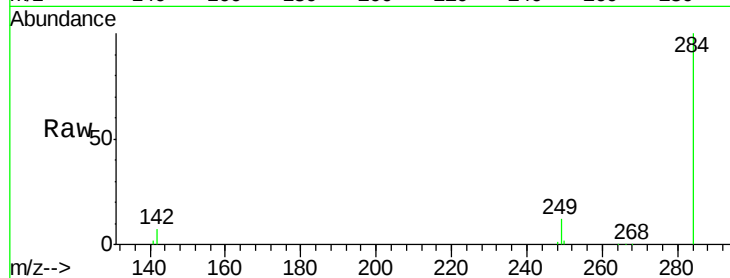
Tgt Ion:284 Resp: 38335

Ion Ratio Lower Upper

284 100

142 38.5 32.2 48.2

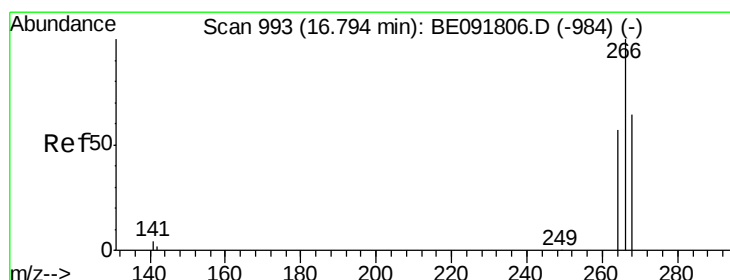
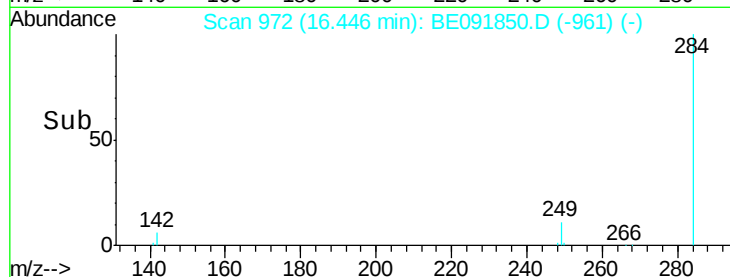
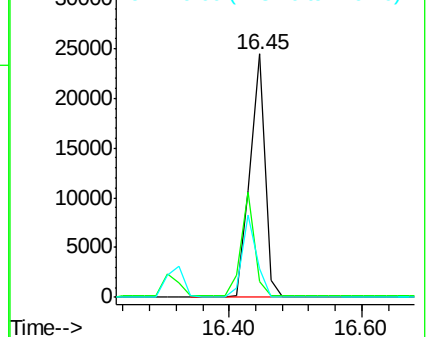
249 32.2 25.4 38.2



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



#22

Pentachlorophenol

Concen: 10.61 ng

RT: 16.77 min Scan# 991

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

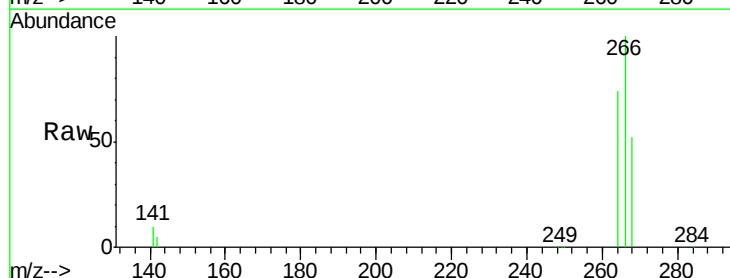
Tgt Ion:266 Resp: 40865

Ion Ratio Lower Upper

266 100

268 51.7 58.2 87.2#

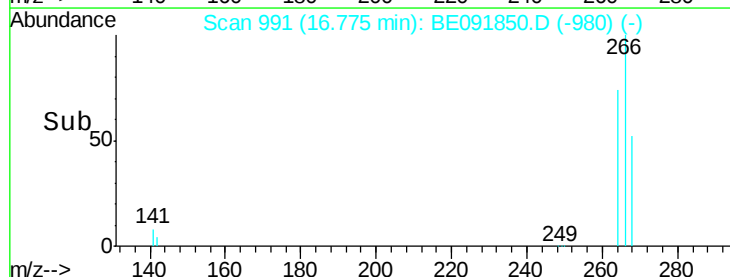
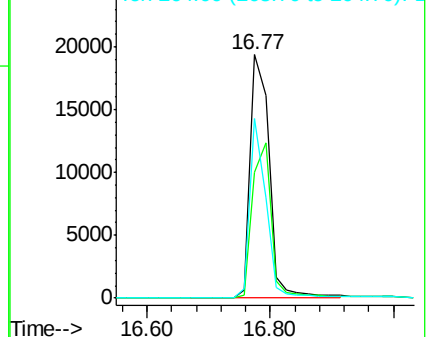
264 74.0 56.2 84.4



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





#23

Phenanthrene

Concen: 7.51 ng

RT: 17.17 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

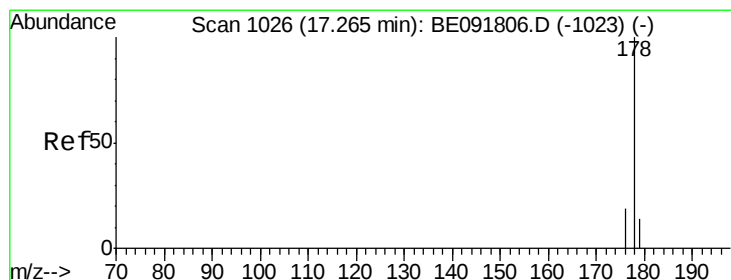
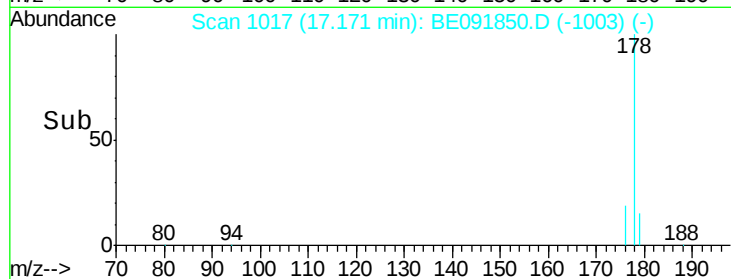
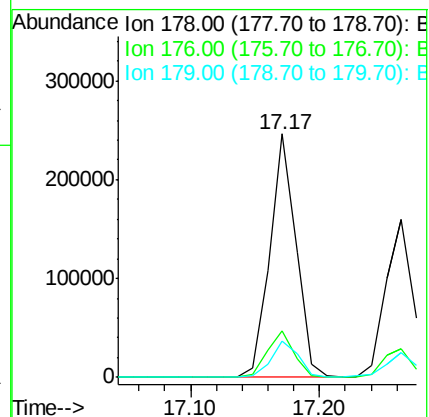
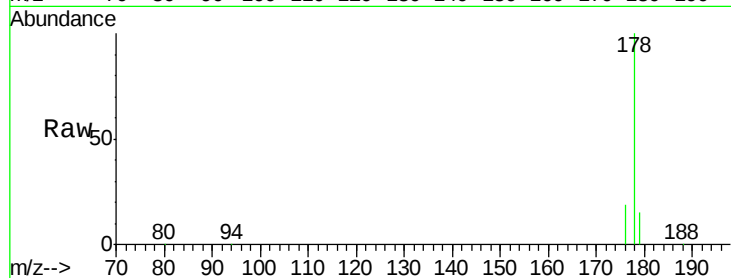
Tgt Ion:178 Resp: 350738

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

179 15.6 12.6 18.8



#24

Anthracene

Concen: 4.48 ng

RT: 17.26 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

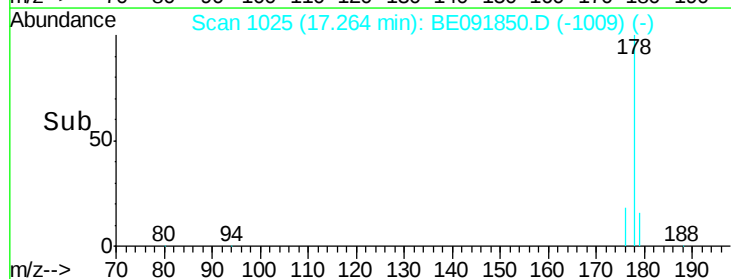
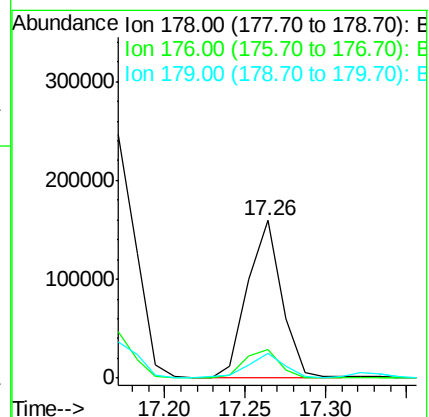
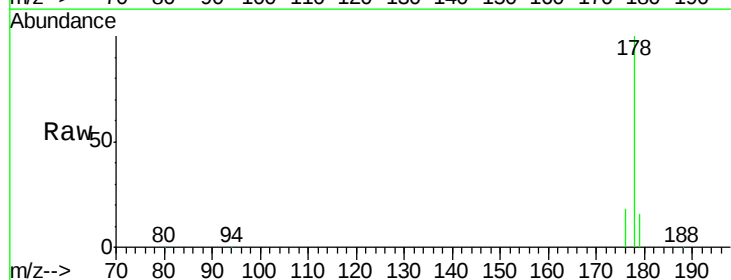
Tgt Ion:178 Resp: 233191

Ion Ratio Lower Upper

178 100

176 19.3 14.6 21.8

179 16.1 11.8 17.6





#25

Fluoranthene

Concen: 11.40 ng

RT: 19.19 min Scan# 1149

Delta R.T. -0.00 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

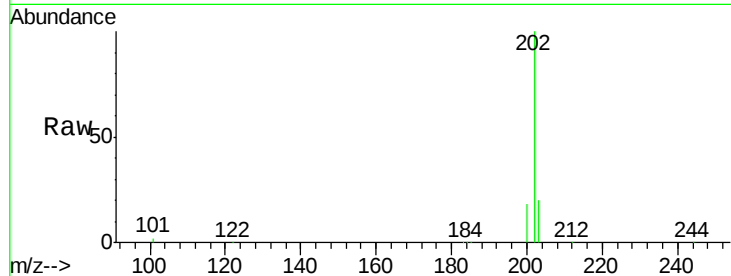
Tgt Ion:202 Resp: 725196

Ion Ratio Lower Upper

202 100

101 11.3 11.0 16.6

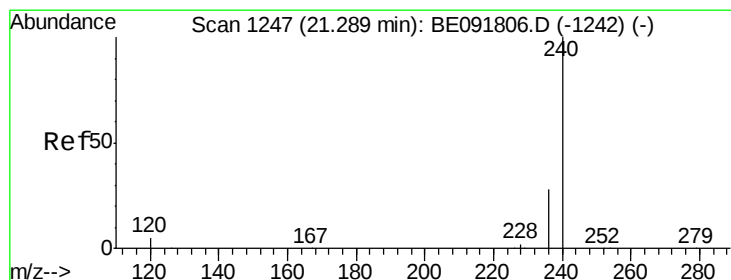
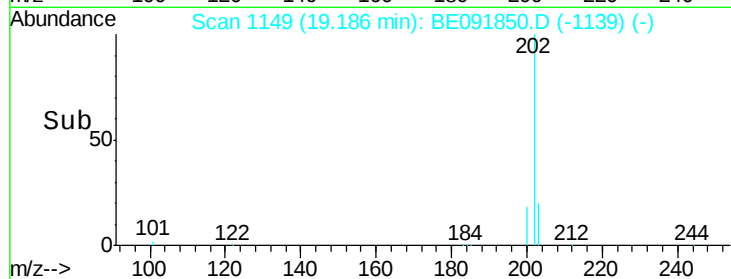
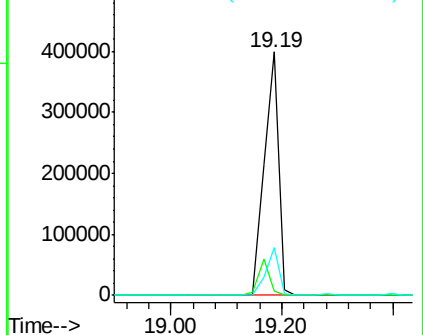
203 17.8 13.9 20.9



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.29 min Scan# 1246

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

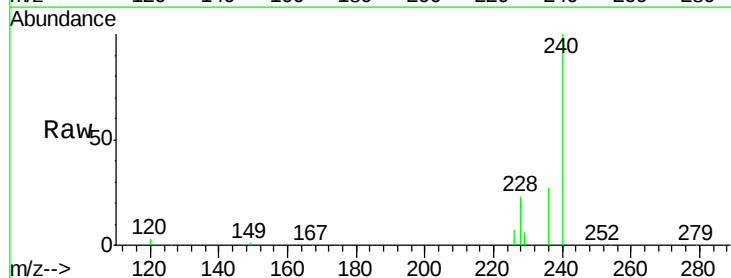
Tgt Ion:240 Resp: 273520

Ion Ratio Lower Upper

240 100

120 3.2 11.0 16.4#

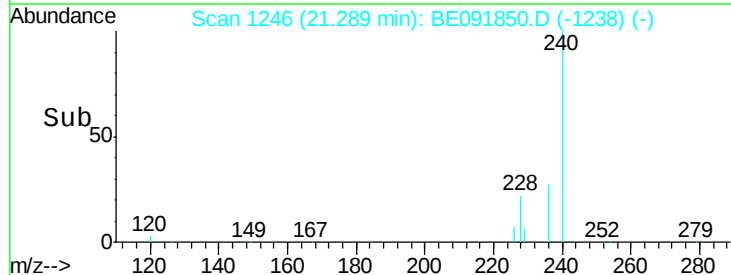
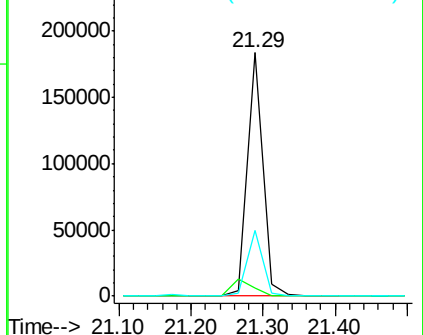
236 27.2 21.7 32.5

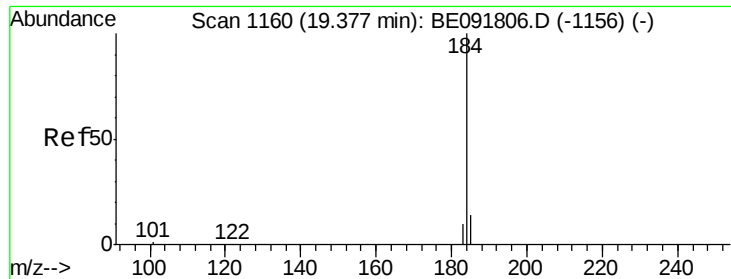


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.39 ng

RT: 19.36 min Scan# 1158

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

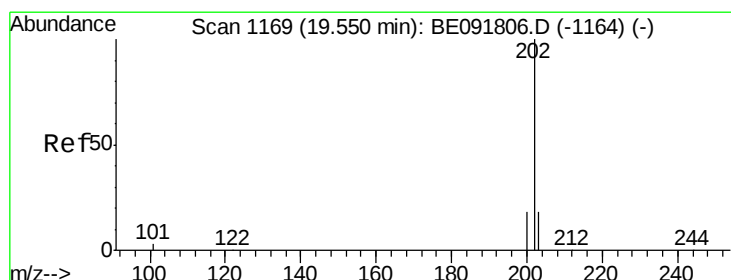
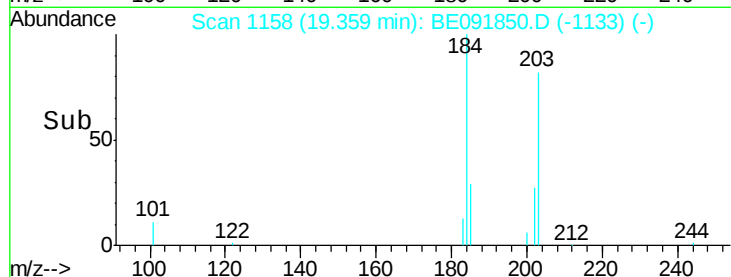
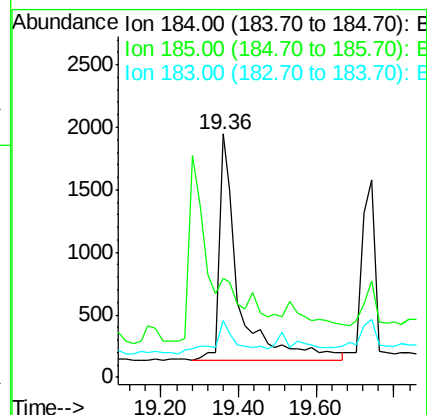
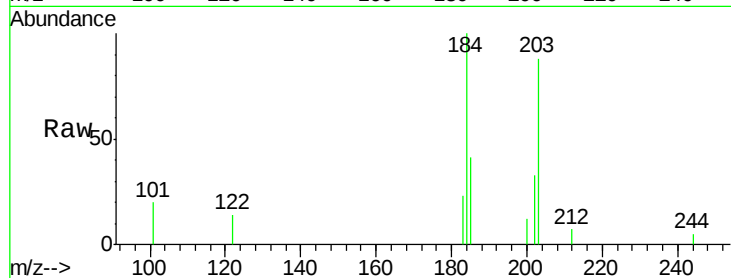
Tgt Ion:184 Resp: 6264

Ion Ratio Lower Upper

184 100

185 40.7 22.3 33.5#

183 23.3 16.4 24.6



#28

Pyrene

Concen: 11.11 ng

RT: 19.53 min Scan# 1167

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

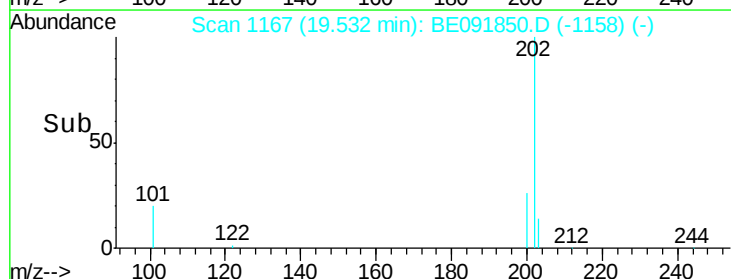
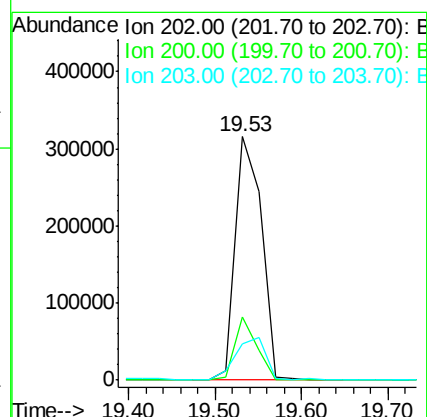
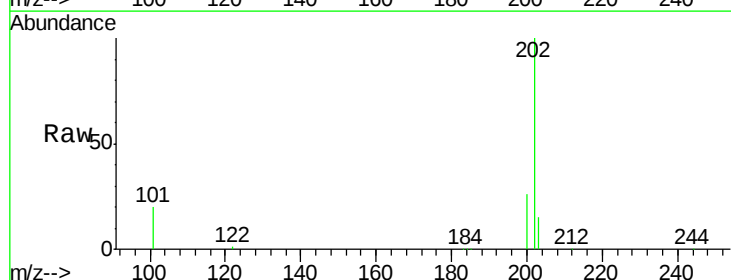
Tgt Ion:202 Resp: 666841

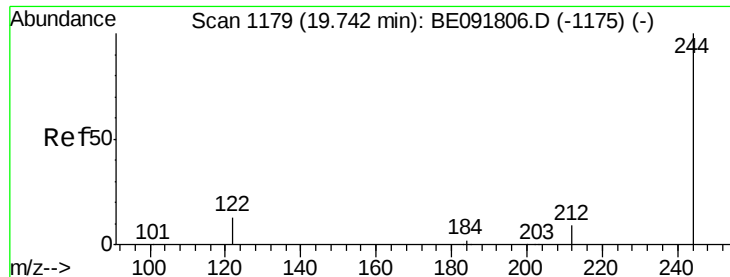
Ion Ratio Lower Upper

202 100

200 21.8 16.8 25.2

203 20.1 14.0 21.0





#29

Terphenyl-d14

Concen: 5.17 ng

RT: 19.74 min Scan# 1178

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

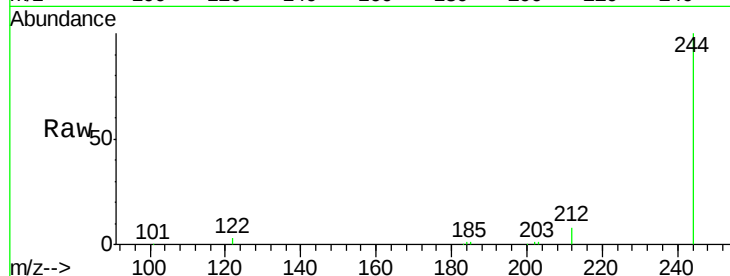
Tgt Ion:244 Resp: 200137

Ion Ratio Lower Upper

244 100

212 8.4 6.9 10.3

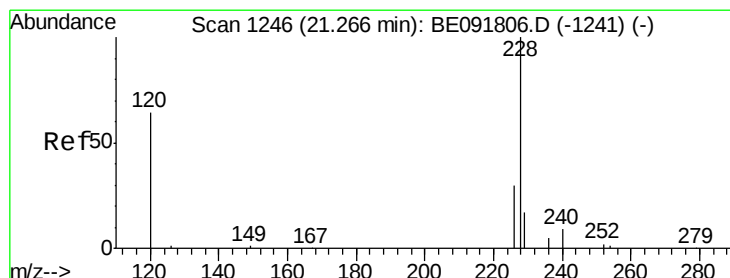
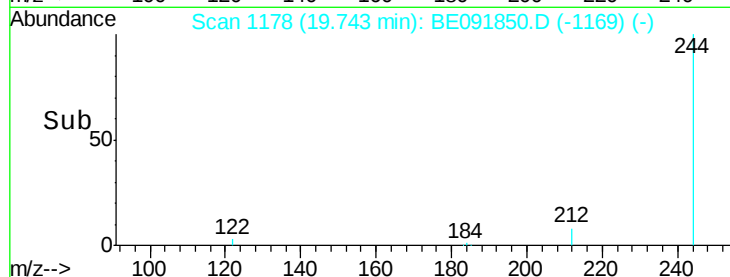
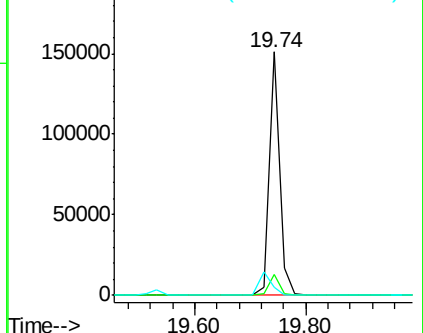
122 3.5 11.0 16.4#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 15.15 ng

RT: 21.27 min Scan# 1245

Delta R.T. -0.02 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

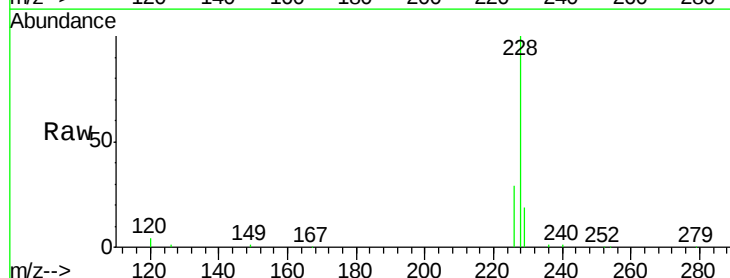
Tgt Ion:228 Resp: 999405

Ion Ratio Lower Upper

228 100

226 28.8 21.0 31.4

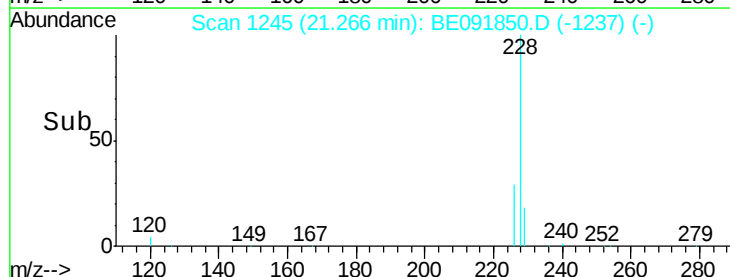
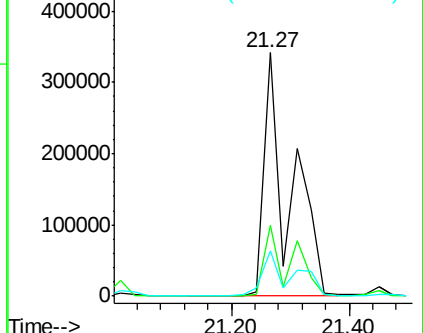
229 18.5 15.7 23.5



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

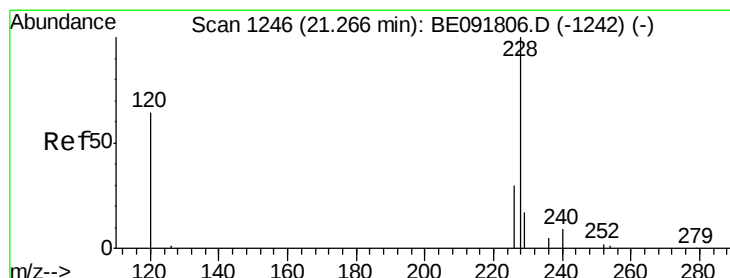
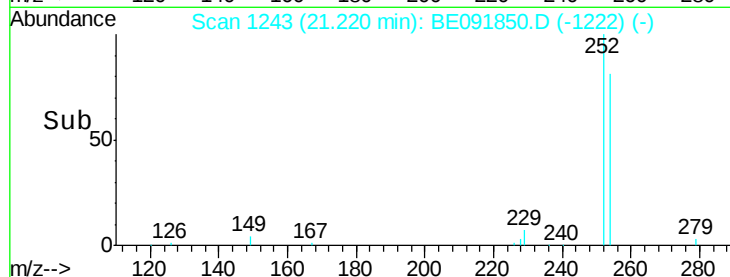
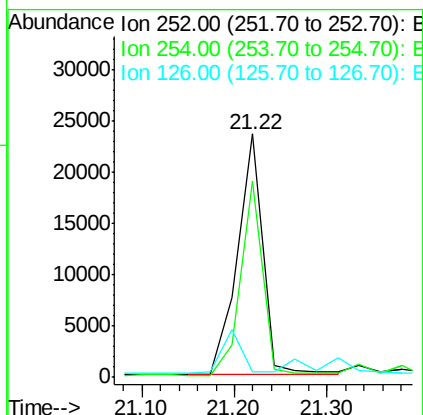
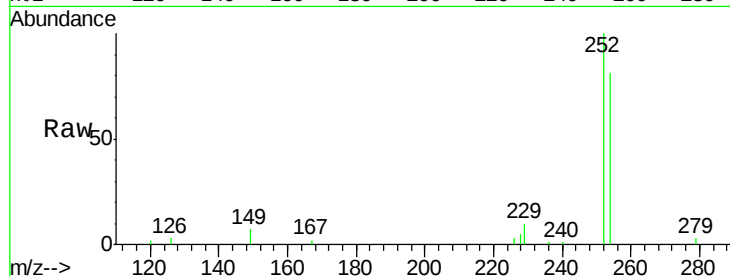




#31
 3,3'-Dichlorobenzidine
 Concen: 1.08 ng
 RT: 21.22 min Scan# 1243
 Delta R.T. -0.02 min
 Lab File: BE091850.D
 Acq: 23 May 2016 16:52

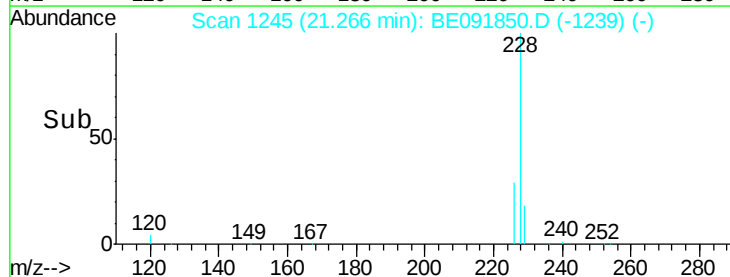
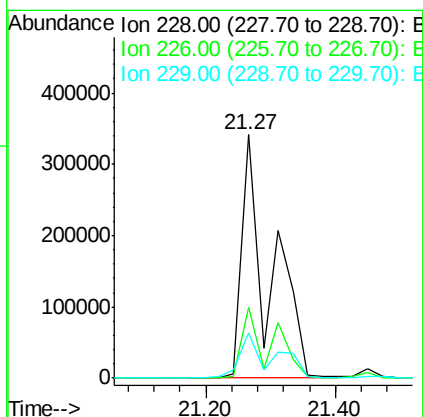
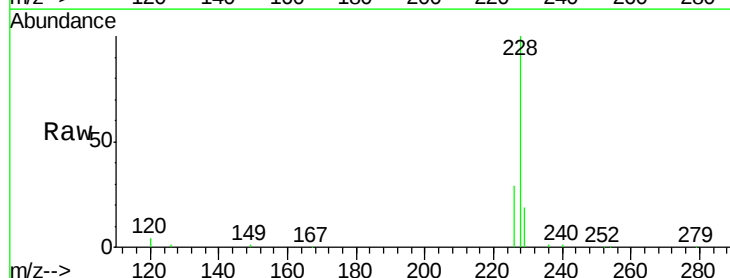
Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MS

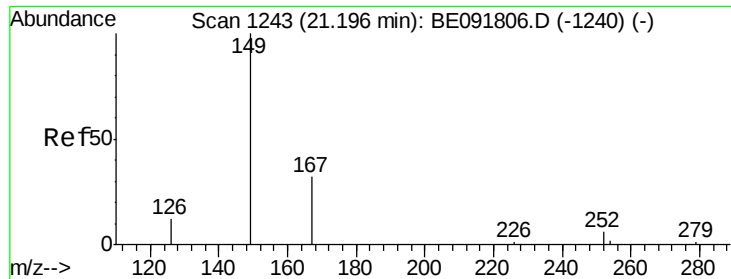
Tgt Ion: 252 Resp: 45327
 Ion Ratio Lower Upper
 252 100
 254 80.9 51.1 76.7#
 126 2.5 12.6 18.8#



#32
 Chrysene
 Concen: 17.56 ng
 RT: 21.27 min Scan# 1245
 Delta R.T. -0.07 min
 Lab File: BE091850.D
 Acq: 23 May 2016 16:52

Tgt Ion: 228 Resp: 999948
 Ion Ratio Lower Upper
 228 100
 226 28.8 24.0 36.0
 229 18.5 15.9 23.9

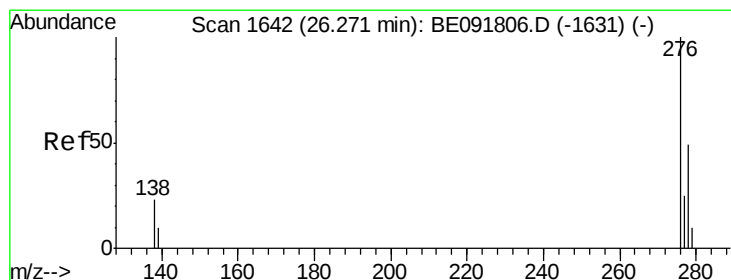
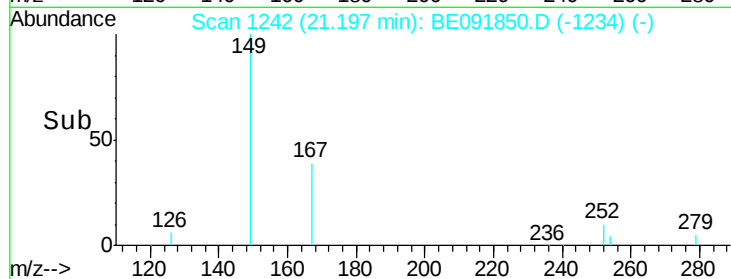
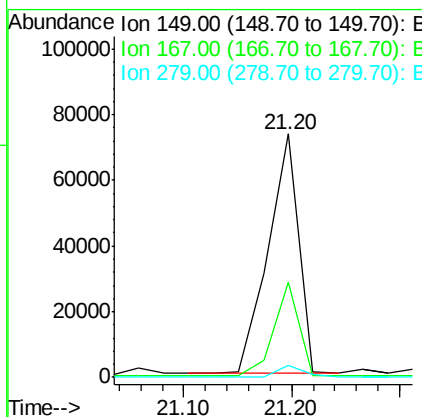
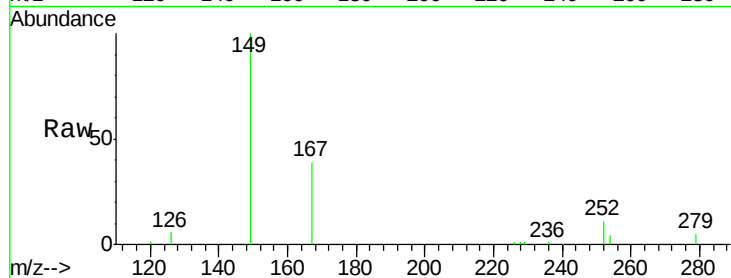




#33
 Bis(2-ethylhexyl)phthalate
 Concen: 3.90 ng
 RT: 21.20 min Scan# 1242
 Delta R.T. -0.02 min
 Lab File: BE091850.D
 Acq: 23 May 2016 16:52

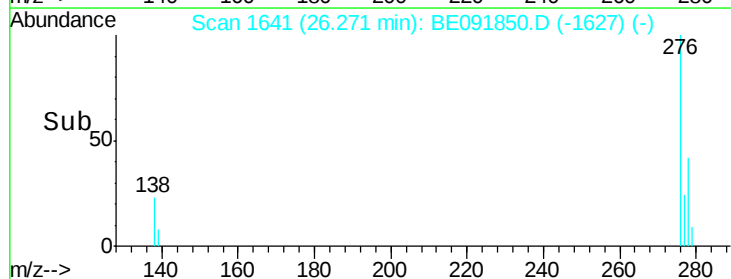
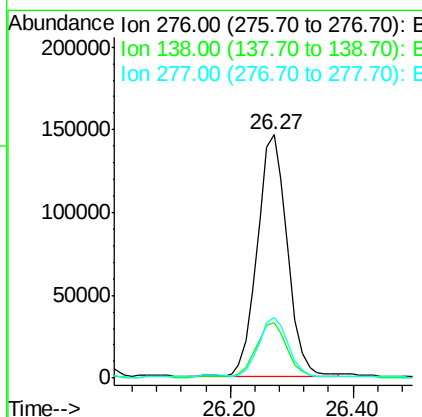
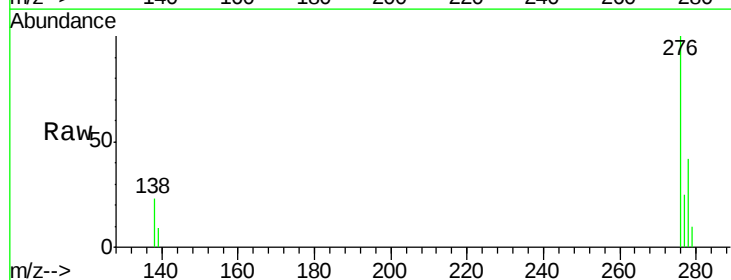
Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MS

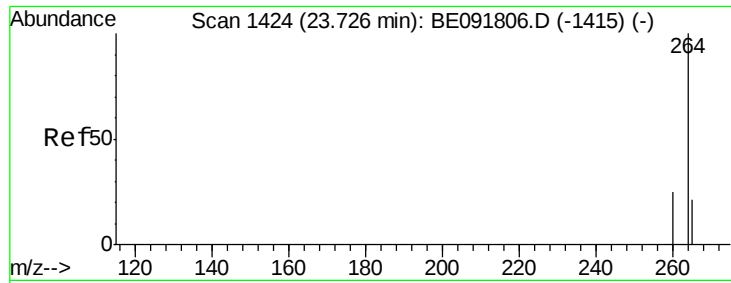
Tgt Ion:149 Resp: 144481
 Ion Ratio Lower Upper
 149 100
 167 31.8 19.5 29.3#
 279 3.8 10.0 15.0#



#34
 Indeno(1,2,3-cd)pyrene
 Concen: 7.42 ng
 RT: 26.27 min Scan# 1641
 Delta R.T. -0.03 min
 Lab File: BE091850.D
 Acq: 23 May 2016 16:52

Tgt Ion:276 Resp: 501784
 Ion Ratio Lower Upper
 276 100
 138 22.7 23.4 35.2#
 277 23.7 19.8 29.8

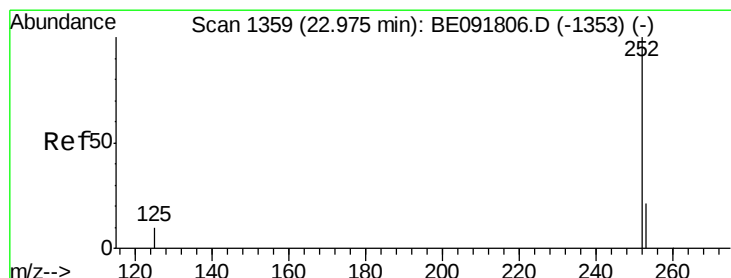
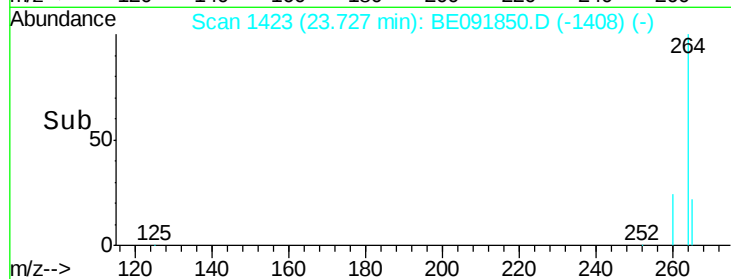
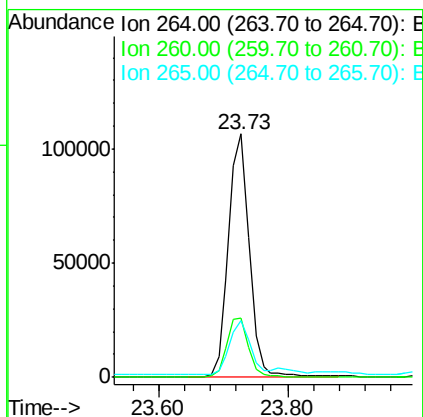
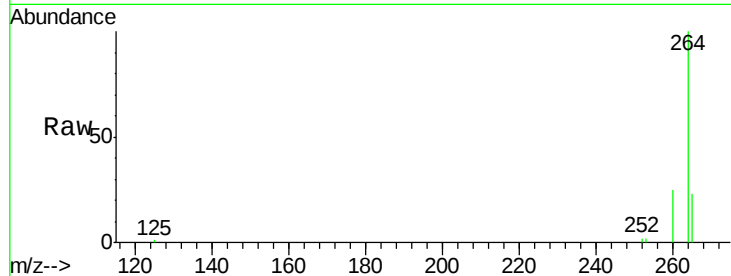




#35
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.73 min Scan# 1423
 Delta R.T. -0.02 min
 Lab File: BE091850.D
 Acq: 23 May 2016 16:52

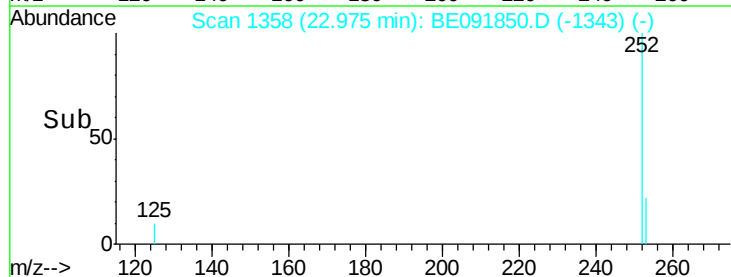
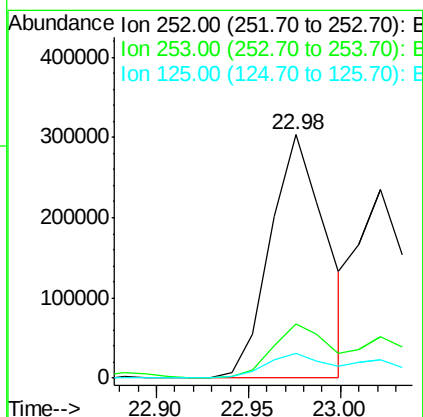
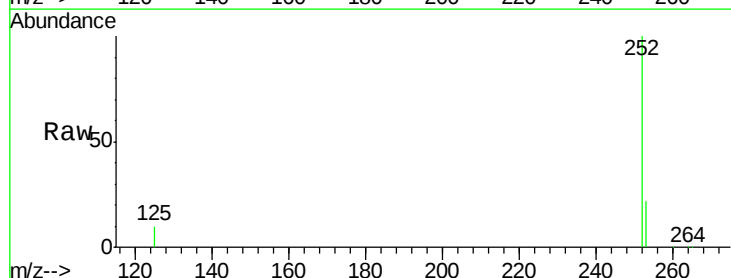
Instrument :
 BNA_E
 ClientSampleId :
 SP-001-160517MS

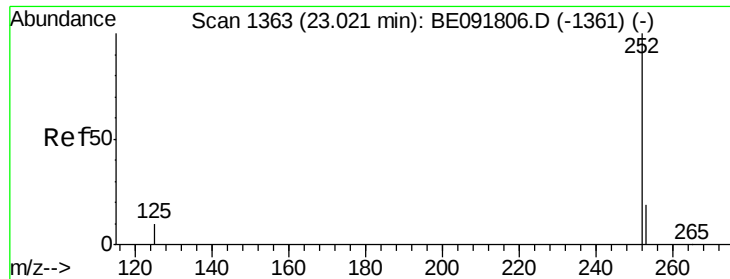
Tgt Ion: 264 Resp: 236314
 Ion Ratio Lower Upper
 264 100
 260 24.6 20.0 30.0
 265 23.5 17.5 26.3



#36
 Benzo(b)fluoranthene
 Concen: 10.75 ng
 RT: 22.98 min Scan# 1358
 Delta R.T. -0.02 min
 Lab File: BE091850.D
 Acq: 23 May 2016 16:52

Tgt Ion: 252 Resp: 635687
 Ion Ratio Lower Upper
 252 100
 253 22.4 17.4 26.0
 125 10.1 10.2 15.2#





#37

Benzo(k)fluoranthene

Concen: 10.50 ng

RT: 22.98 min Scan# 1358

Delta R.T. -0.07 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

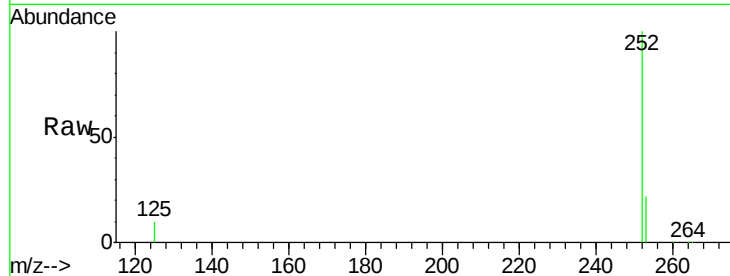
Tgt Ion:252 Resp: 635687

Ion Ratio Lower Upper

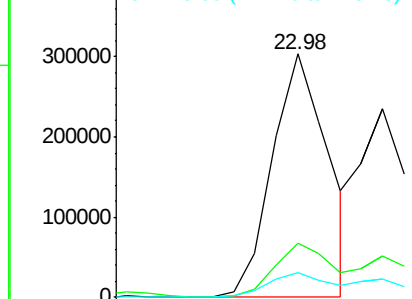
252 100

253 22.4 17.6 26.4

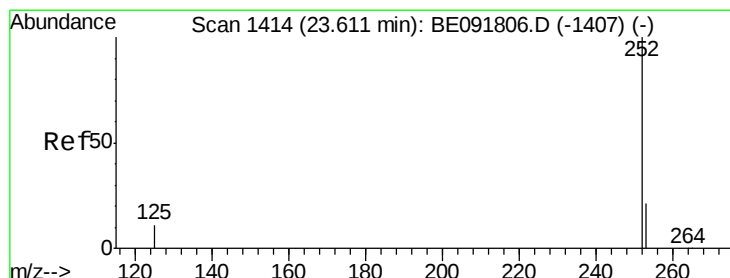
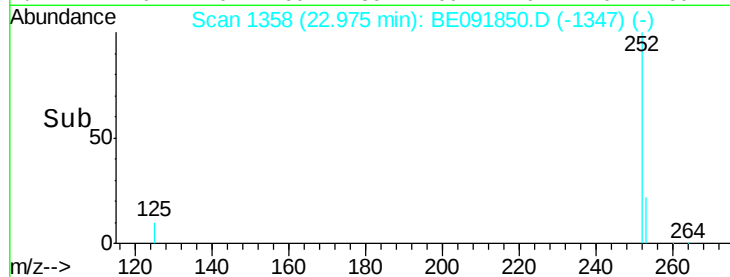
125 10.1 9.9 14.9



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



Time-->



#38

Benzo(a)pyrene

Concen: 3.68 ng

RT: 23.51 min Scan# 1404

Delta R.T. -0.13 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

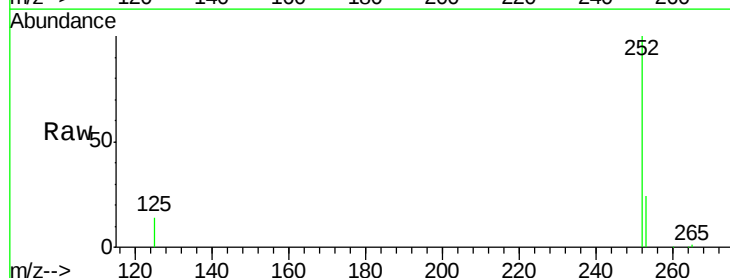
Tgt Ion:252 Resp: 207754

Ion Ratio Lower Upper

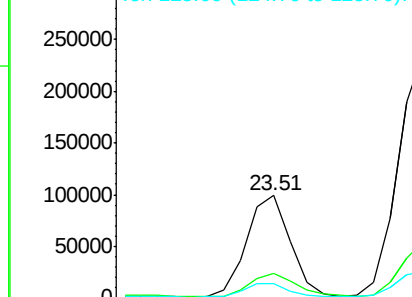
252 100

253 24.3 18.1 27.1

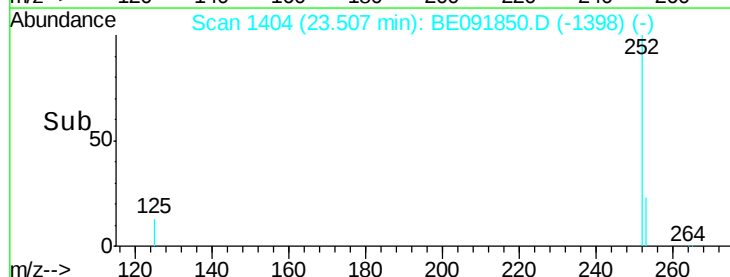
125 13.8 11.0 16.4



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



Time-->





#39

Dibenzo(a,h)anthracene

Concen: 5.17 ng

RT: 26.29 min Scan# 1643

Delta R.T. -0.05 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

Instrument :

BNA_E

ClientSampleId :

SP-001-160517MS

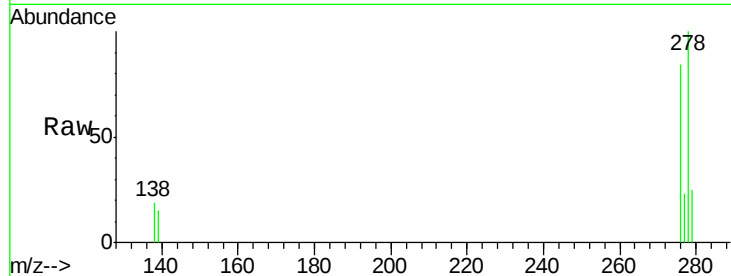
Tgt Ion: 278 Resp: 284661

Ion Ratio Lower Upper

278 100

139 14.7 16.0 24.0#

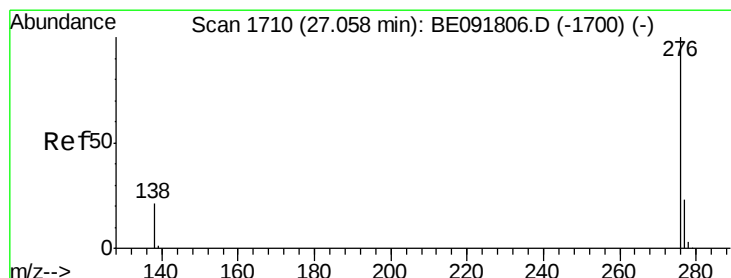
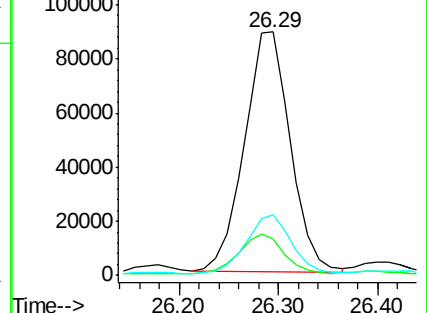
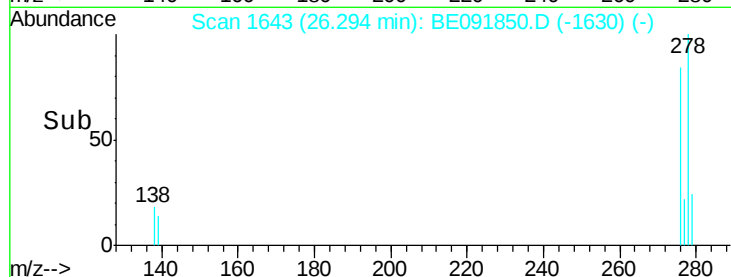
279 24.7 19.4 29.2



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



#40

Benzo(g,h,i)perylene

Concen: 8.01 ng

RT: 27.06 min Scan# 1709

Delta R.T. -0.05 min

Lab File: BE091850.D

Acq: 23 May 2016 16:52

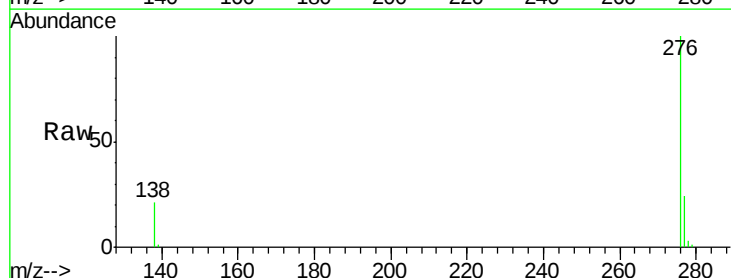
Tgt Ion: 276 Resp: 455409

Ion Ratio Lower Upper

276 100

277 24.2 18.6 28.0

138 21.2 20.4 30.6



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

