

Data Path : Z:\HPCHEM1\BNA E\DATA\BE060816\
 Data File : BE091904.D
 Acq On : 8 Jun 2016 16:55
 Operator : UM/SJ
 Sample : PB91033BS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB91033BS

Quant Time: Jun 09 04:52:23 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 08 16:11:34 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	22403	5.00	ng	0.00
8) Naphthalene-d8	10.55	136	100267	5.00	ng	0.00
15) Acenaphthene-d10	14.38	164	57616	5.00	ng	0.00
24) Phenanthrene-d10	17.12	188	150715	5.00	ng	0.00
31) Chrysene-d12	21.30	240	129305	5.00	ng	0.00
40) Perylene-d12	23.71	264	185208	5.00	ng	0.00

System Monitoring Compounds

4) 2-Fluorophenol	5.37	112	32309	6.76	ng	0.00
5) Phenol-d6	6.94	99	46337	7.83	ng	-0.02
9) Nitrobenzene-d5	8.91	82	29548	3.92	ng	-0.02
16) 2,4,6-Tribromophenol	15.87	330	15923	9.70	ng	-0.02
17) 2-Fluorobiphenyl	13.01	172	69583	3.98	ng	0.00
34) Terphenyl-d14	19.74	244	123916	-5.00	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	3.31	88	8817	2.97	ng	88
3) n-Nitrosodimethylamine	3.61	42	12839	3.43	ng	96
6) bis(2-Chloroethyl)ether	7.20	93	22847	3.56	ng	98
7) n-Nitroso-di-n-propylamine	8.54	70	18019	3.56	ng	# 91
10) Nitrobenzene	8.96	77	25292	3.68	ng	# 66
11) bis(2-Chloroethoxy)methane	9.96	93	36449	3.58	ng	# 40
12) Naphthalene	10.59	128	78115	3.61	ng	96
13) Hexachlorobutadiene	10.88	225	11444	3.55	ng	99
14) 2-Methylnaphthalene	12.20	142	54432	3.90	ng	96
18) Acenaphthylene	14.10	152	99951	3.83	ng	# 91
19) 2,6-Dinitrotoluene	13.96	165	15185	3.90	ng	98
20) Acenaphthene	14.44	154	63434	3.98	ng	95
21) 2,4-Dinitrotoluene	14.76	165	17951	4.03	ng	# 1
22) Fluorene	15.42	166	76564	3.93	ng	100
23) 4-Chlorophenyl-phenylether	15.42	204	36249	3.79	ng	99
25) 4-Bromophenyl-phenylether	16.31	248	22259	4.11	ng	97
26) Hexachlorobenzene	16.43	284	23108	4.17	ng	99
27) Pentachlorophenol	16.78	266	22870	7.60	ng	92
28) Phenanthrene	17.16	178	140145	4.01	ng	99
29) Anthracene	17.25	178	133488	4.29	ng	100
30) Fluoranthene	19.17	202	164143	4.35	ng	99
32) Benzidine	19.36	184	56296	5.39	ng	# 95
33) Pyrene	19.53	202	186879	5.73	ng	99
35) Benzo(a)anthracene	21.27	228	857404m	5.51	ng	
36) 3,3'-Dichlorobenzidine	21.21	252	54069	5.16	ng	# 91
37) Chrysene	21.33	228	361292m	2.74	ng	
38) Bis(2-ethylhexyl)phthalate	21.19	149	96945	4.09	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.27	276	201334	Below	Cal	98
41) Benzo(b)fluoranthene	22.98	252	185588	4.10	ng	98
42) Benzo(k)fluoranthene	23.03	252	198121	4.22	ng	97
43) Benzo(a)pyrene	23.59	252	175190	4.13	ng	96
44) Dibenzo(a,h)anthracene	26.29	278	170545	4.31	ng	# 95
45) Benzo(a,h,i)perylene	27.05	276	169277	4.08	ng	98

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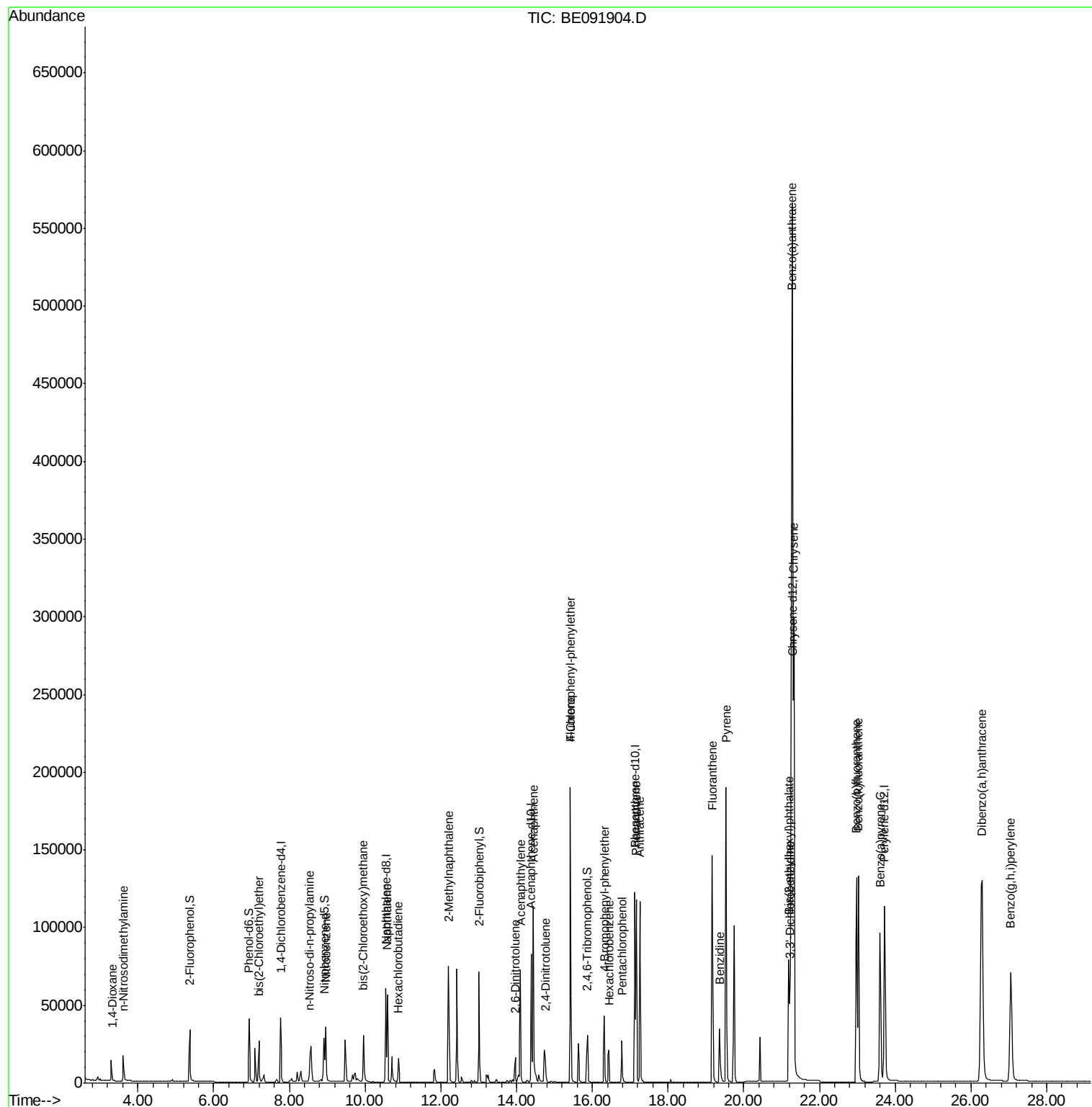
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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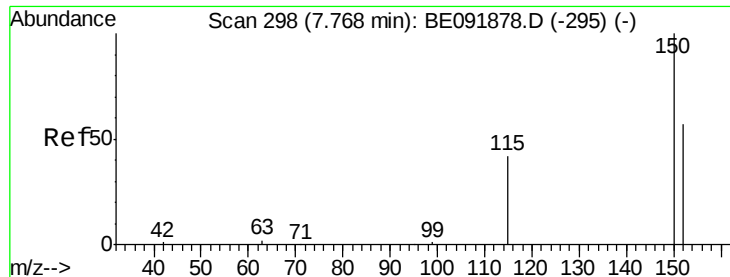
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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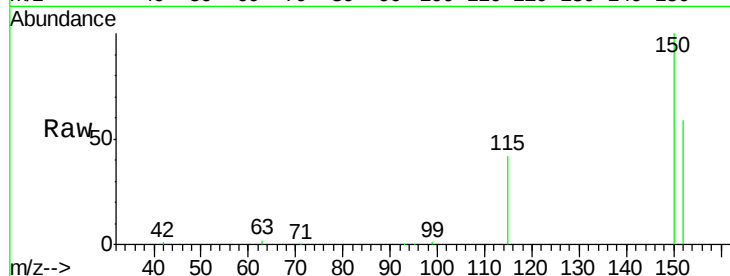


#1

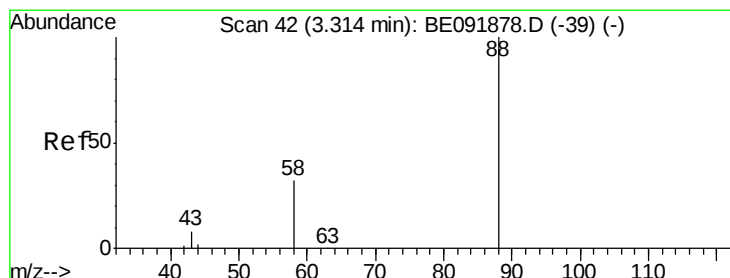
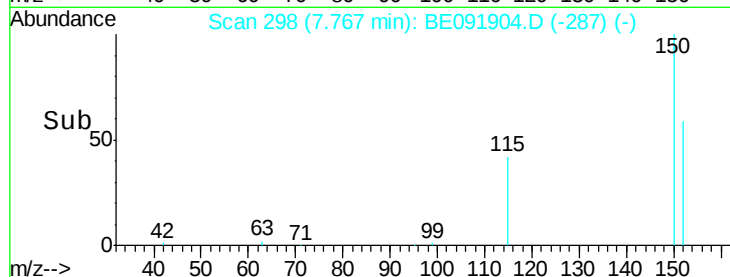
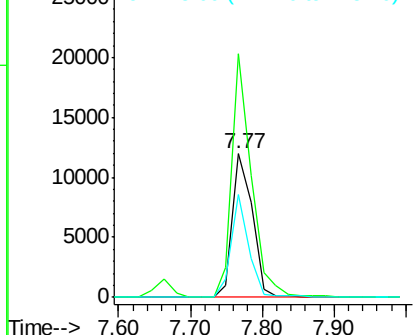
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.77 min Scan# 298
Delta R.T. -0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

Instrument :
BNA_E
ClientSampleId :
PB91033BS

Tot Ion:152 Resp: 22403
Ion Ratio Lower Upper
152 100
150 169.7 123.9 185.9
115 72.0 48.3 72.5



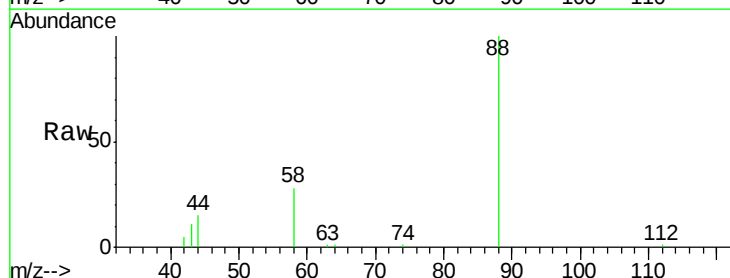
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



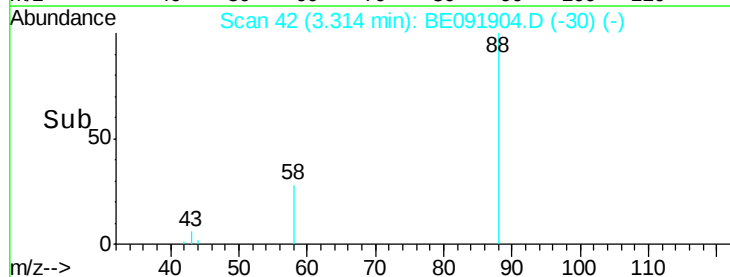
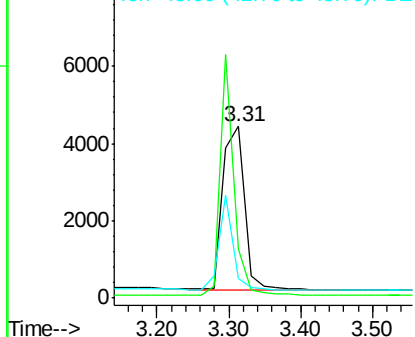
#2

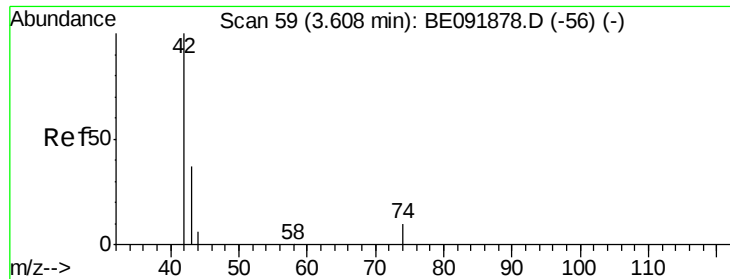
1,4-Dioxane
Concen: 2.97 ng
RT: 3.31 min Scan# 42
Delta R.T. -0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

Tgt Ion: 88 Resp: 8817
Ion Ratio Lower Upper
88 100
58 92.8 63.0 94.4
43 38.1 29.1 43.7



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: 3.43 ng

RT: 3.61 min Scan# 59

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

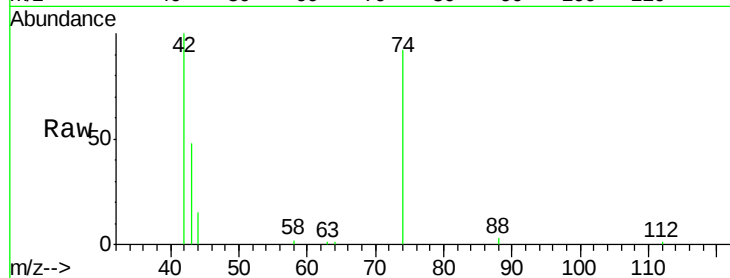
Tot Ion: 42 Resp: 12839

Ion Ratio Lower Upper

42 100

74 112.4 93.4 140.0

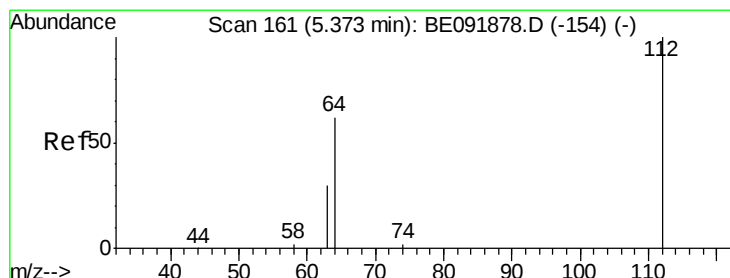
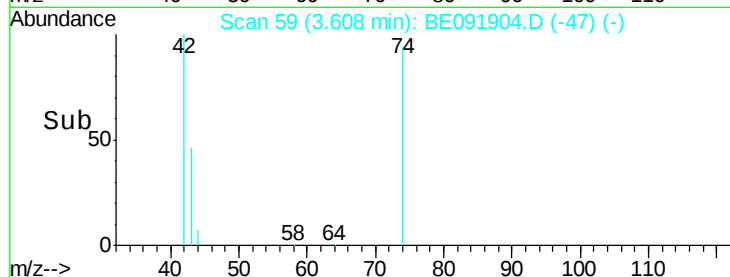
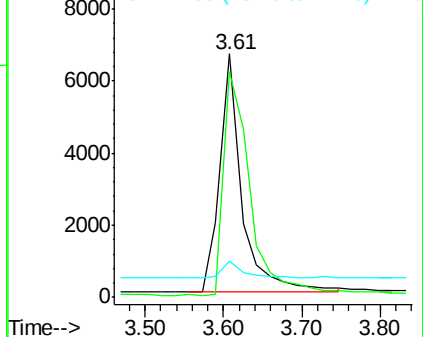
44 6.2 5.0 7.6



Abundance Ion 42.00 (41.70 to 42.70): BE091878.D (-56) (-)

Ion 74.00 (73.70 to 74.70): BE091878.D (-56) (-)

Ion 44.00 (43.70 to 44.70): BE091878.D (-56) (-)



#4

2-Fluorophenol

Concen: 6.76 ng

RT: 5.37 min Scan# 161

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

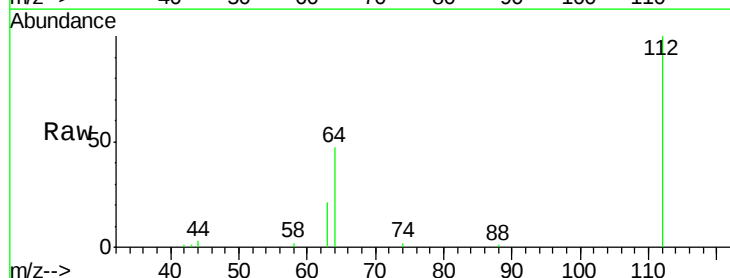
Tgt Ion: 112 Resp: 32309

Ion Ratio Lower Upper

112 100

64 66.4 53.7 80.5

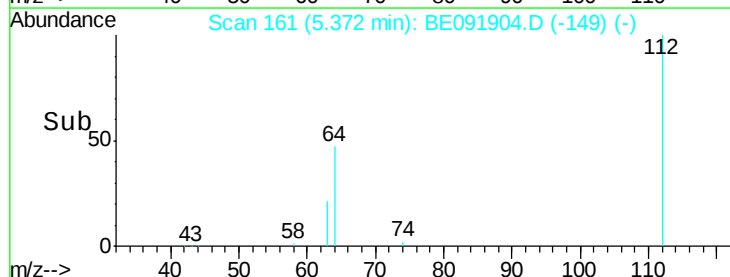
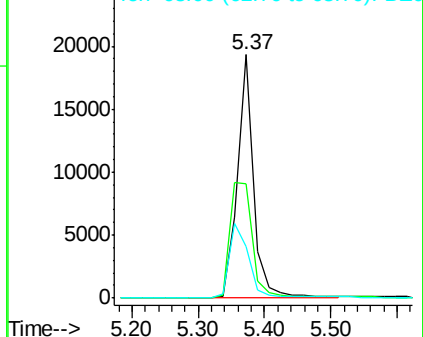
63 35.9 29.5 44.3

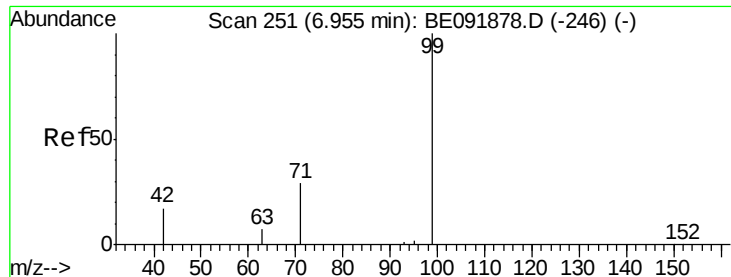


Abundance Ion 112.00 (111.70 to 112.70): BE091878.D (-154) (-)

Ion 64.00 (63.70 to 64.70): BE091878.D (-154) (-)

Ion 63.00 (62.70 to 63.70): BE091878.D (-154) (-)





#5

Phenol-d6

Concen: 7.83 ng

RT: 6.94 min Scan# 250

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

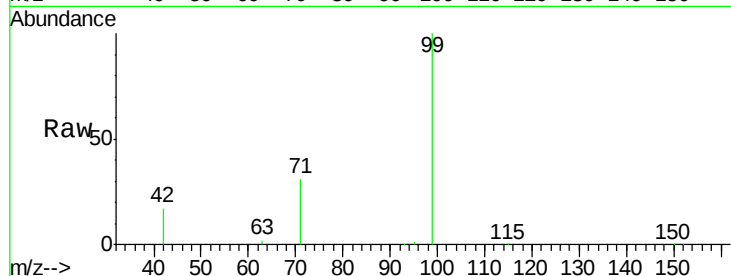
Tot Ion: 99 Resp: 46337

Ion Ratio Lower Upper

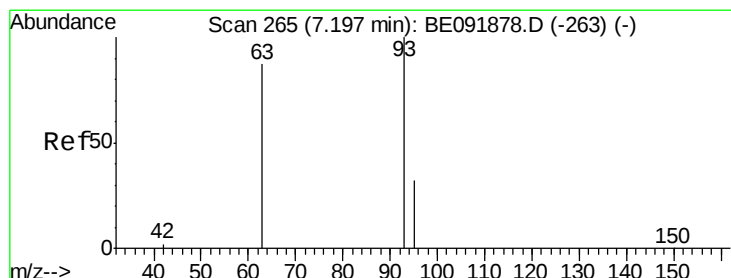
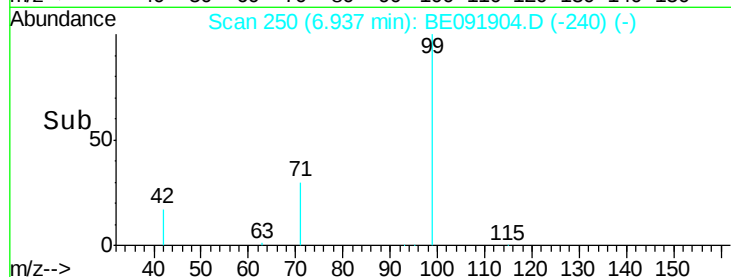
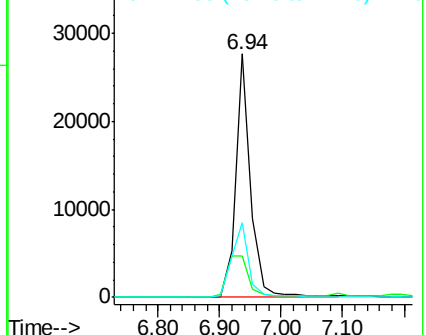
99 100

42 24.1 19.6 29.4

71 34.5 28.1 42.1



Abundance Ion 99.00 (98.70 to 99.70): BE0
Ion 42.00 (41.70 to 42.70): BE0
Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 3.56 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

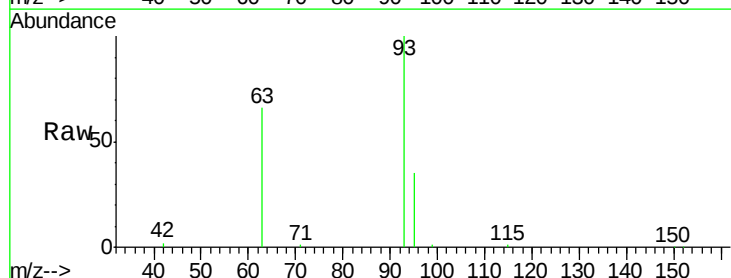
Tgt Ion: 93 Resp: 22847

Ion Ratio Lower Upper

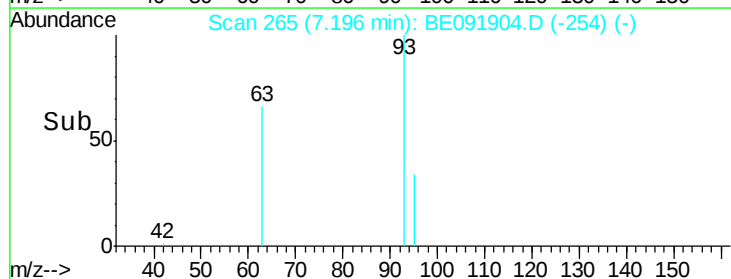
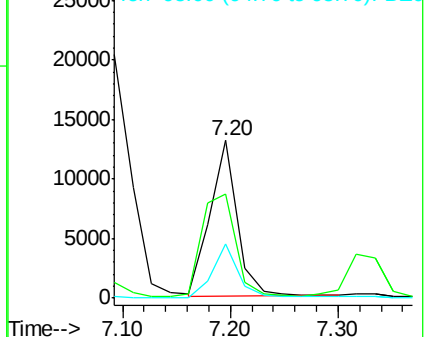
93 100

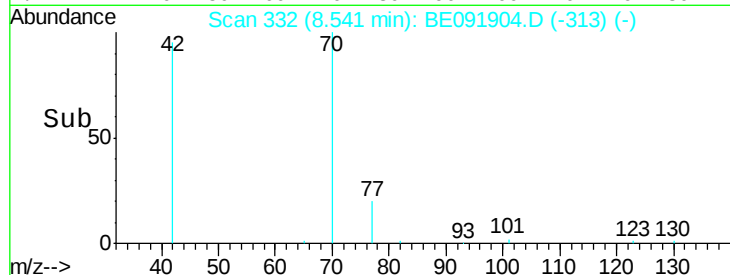
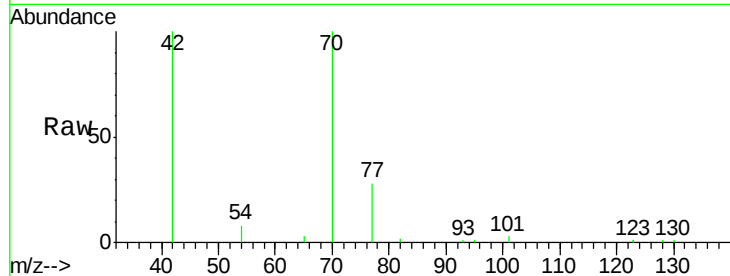
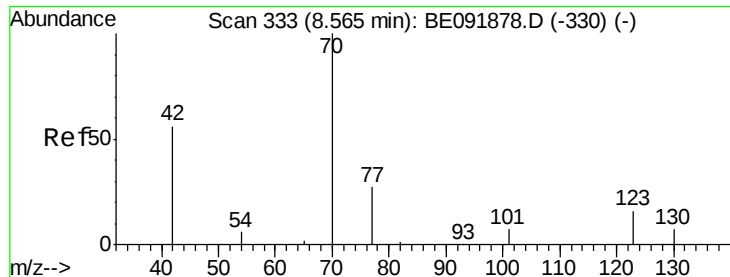
63 84.1 66.2 99.4

95 32.9 25.5 38.3



Abundance Ion 93.00 (92.70 to 93.70): BE0
Ion 63.00 (62.70 to 63.70): BE0
Ion 95.00 (94.70 to 95.70): BE0





#7

n-Nitroso-di-n-propylamine

Concen: 3.56 ng

RT: 8.54 min Scan# 332

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

Tot Ion: 70 Resp: 18019

Ion Ratio Lower Upper

70 100

42 79.1 58.4 87.6

101 0.0 6.4 9.6#

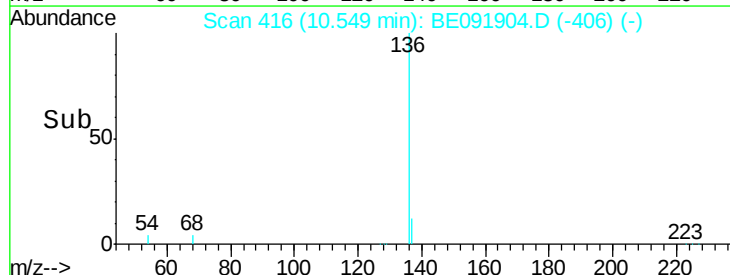
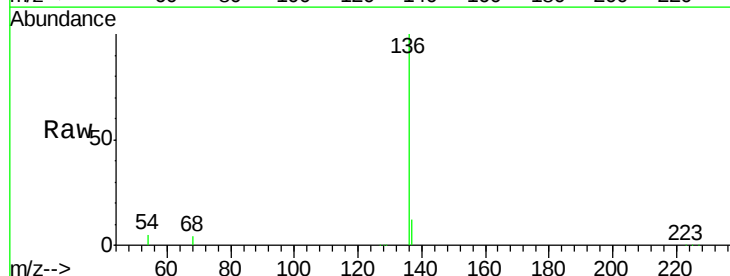
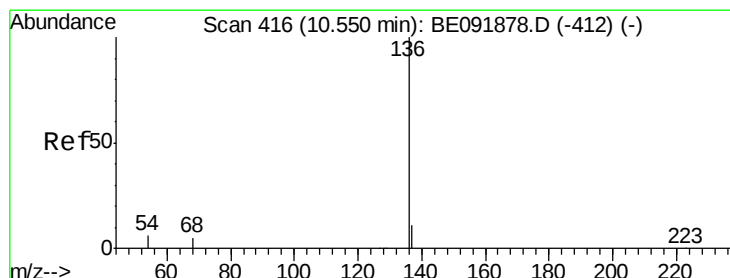
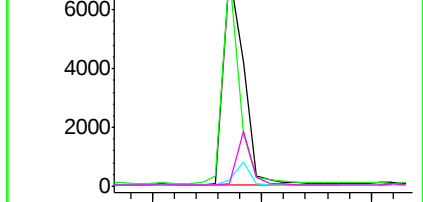
130 0.0 0.0 0.0

Abundance Ion 70.00 (69.70 to 70.70): BE091878.D (-330) (-)

Ion 42.00 (41.70 to 42.70): BE091878.D (-330) (-)

Ion 101.00 (100.70 to 101.70): BE091878.D (-330) (-)

Ion 130.00 (129.70 to 130.70): BE091878.D (-330) (-)



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 416

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Tgt Ion: 136 Resp: 100267

Ion Ratio Lower Upper

136 100

137 11.8 8.3 12.5

54 4.6 8.2 12.4#

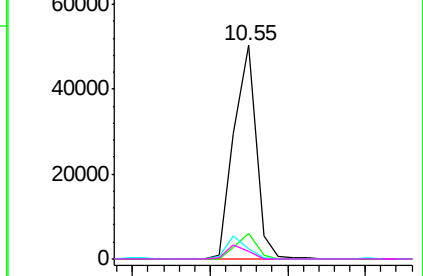
68 3.8 5.9 8.9#

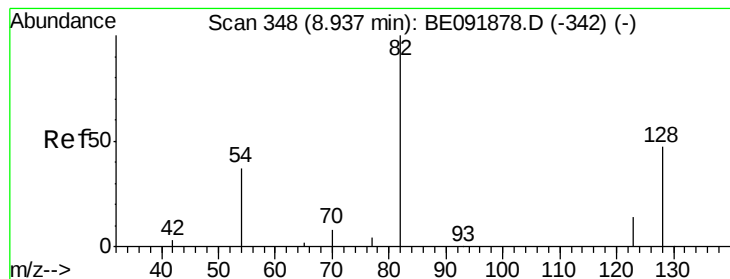
Abundance Ion 136.00 (135.70 to 136.70): BE091878.D (-412) (-)

Ion 137.00 (136.70 to 137.70): BE091878.D (-412) (-)

Ion 54.00 (53.70 to 54.70): BE091878.D (-412) (-)

Ion 68.00 (67.70 to 68.70): BE091878.D (-412) (-)





#9

Nitrobenzene-d5

Concen: 3.92 ng

RT: 8.91 min Scan# 347

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

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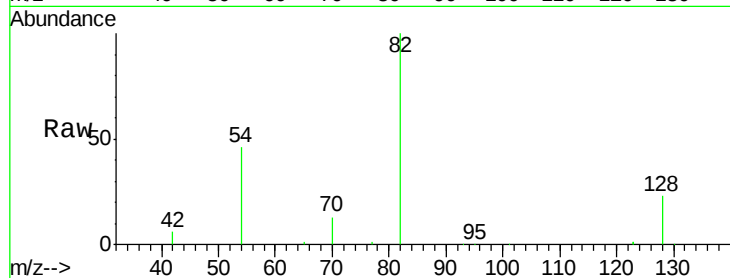
Tot Ion: 82 Resp: 29548

Ion Ratio Lower Upper

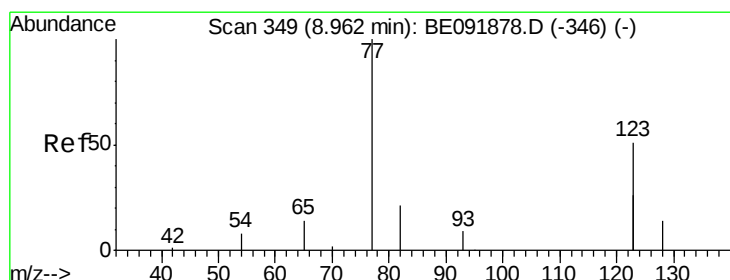
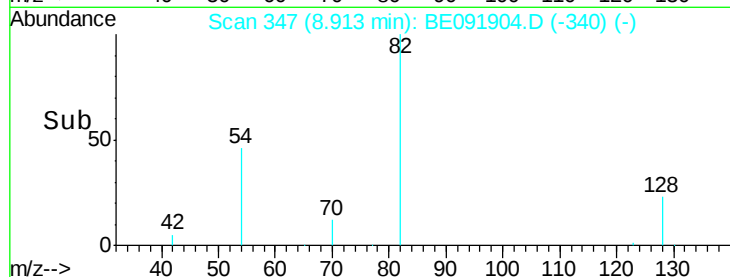
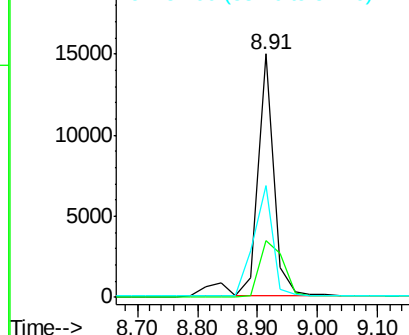
82 100

128 23.3 39.5 59.3#

54 45.9 30.3 45.5#



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



#10

Nitrobenzene

Concen: 3.68 ng

RT: 8.96 min Scan# 349

Delta R.T. 0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

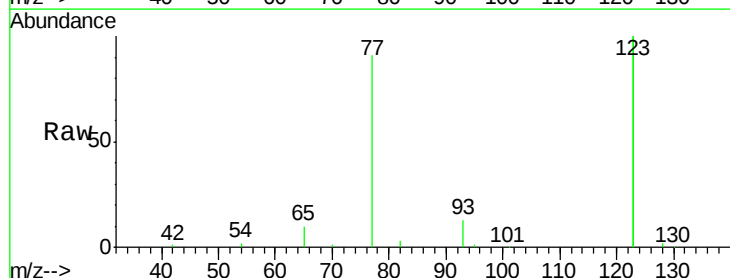
Tgt Ion: 77 Resp: 25292

Ion Ratio Lower Upper

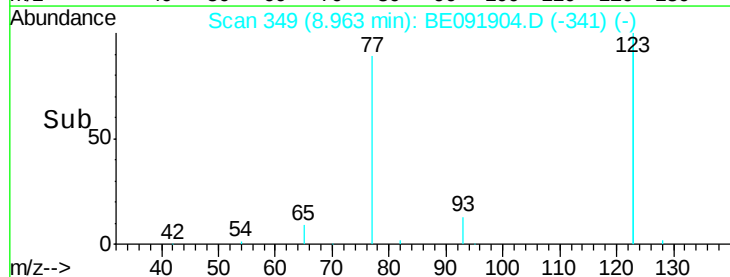
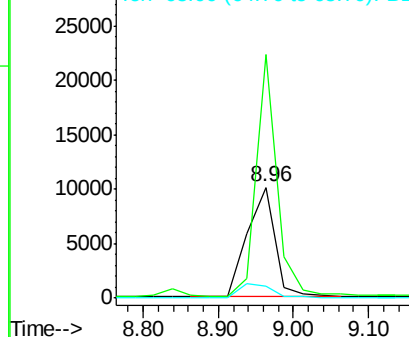
77 100

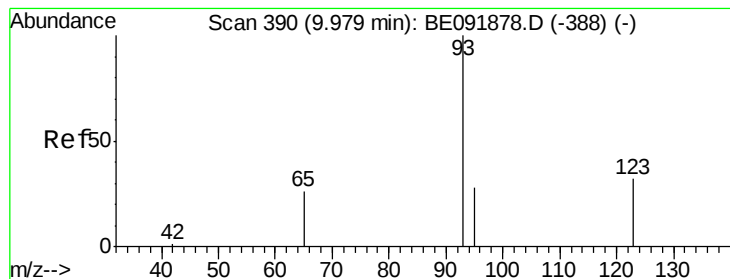
123 166.1 0.0 0.0#

65 0.0 11.1 16.7#



Abundance Ion 77.00 (76.70 to 77.70): BE0
Ion 123.00 (122.70 to 123.70): BE0
Ion 65.00 (64.70 to 65.70): BE0





#11

bis(2-Chloroethoxy)methane

Concen: 3.58 ng

RT: 9.96 min Scan# 389

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

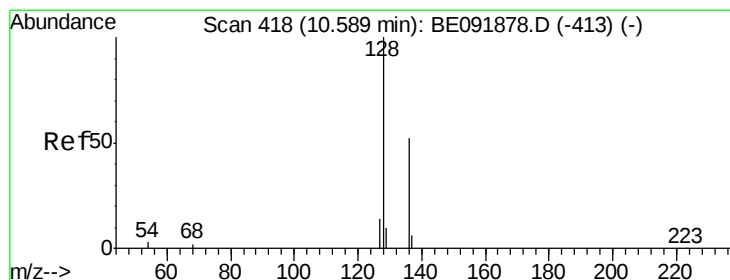
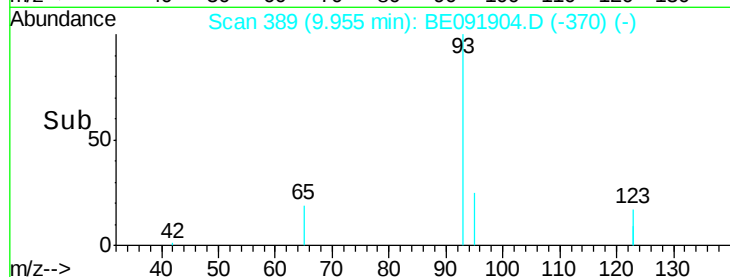
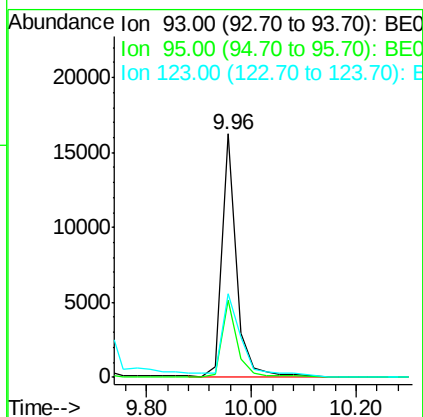
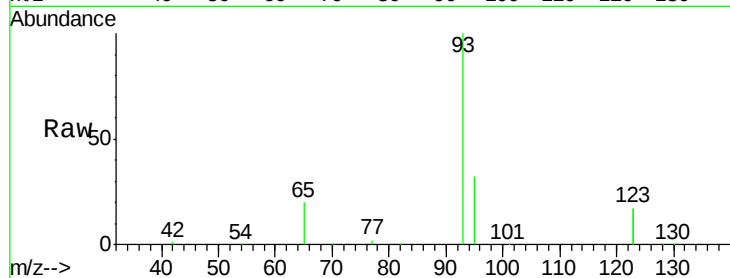
Tot Ion: 93 Resp: 36449

Ion Ratio Lower Upper

93 100

95 33.6 57.6 86.4#

123 47.6 100.2 150.4#



#12

Naphthalene

Concen: 3.61 ng

RT: 10.59 min Scan# 418

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

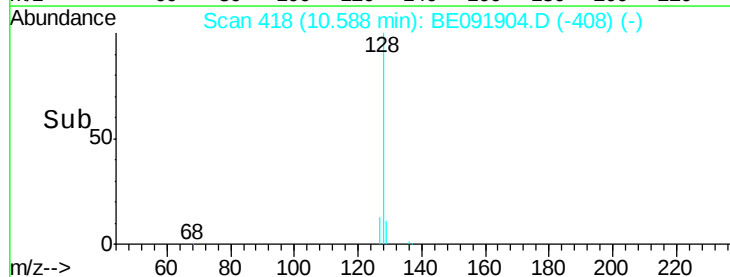
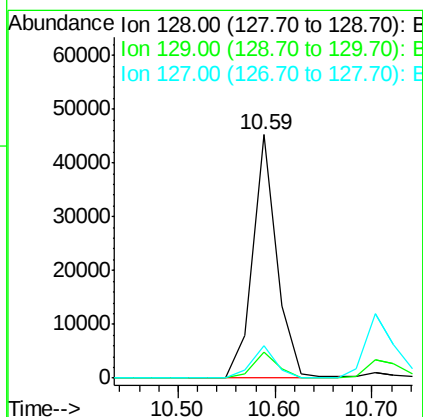
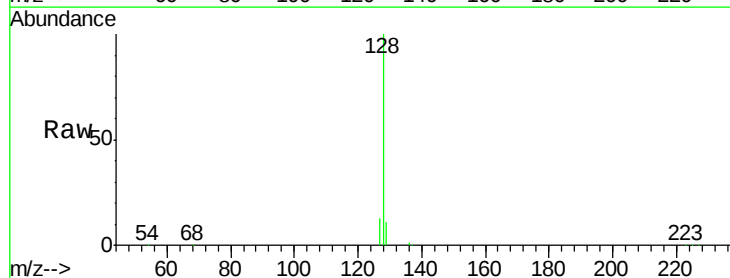
Tgt Ion: 128 Resp: 78115

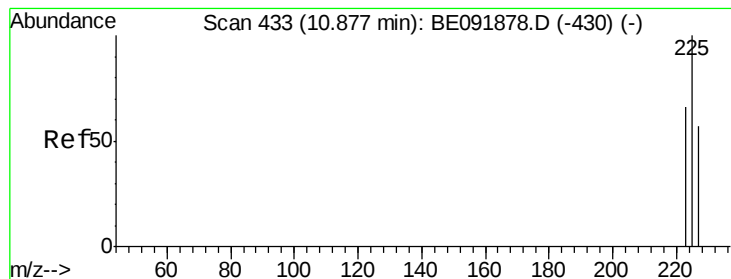
Ion Ratio Lower Upper

128 100

129 10.7 10.4 15.6

127 13.1 10.2 15.2





#13

Hexachlorobutadiene

Concen: 3.55 ng

RT: 10.88 min Scan# 433

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

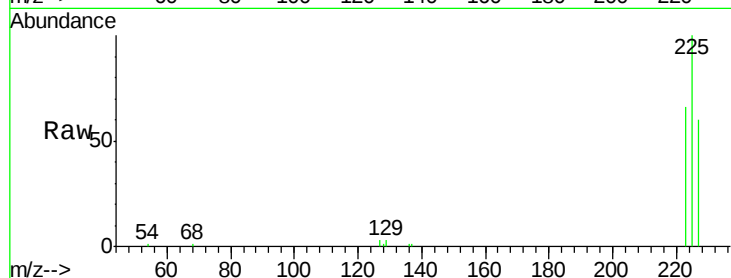
Tot Ion:225 Resp: 11444

Ion Ratio Lower Upper

225 100

223 63.5 49.8 74.8

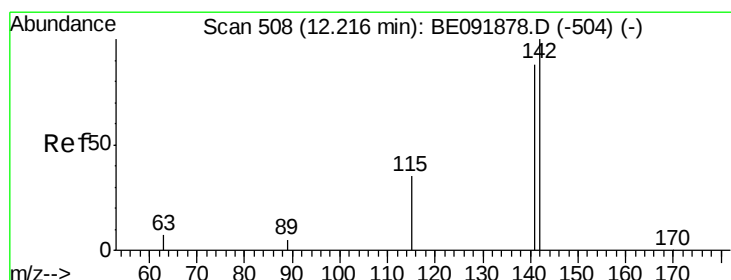
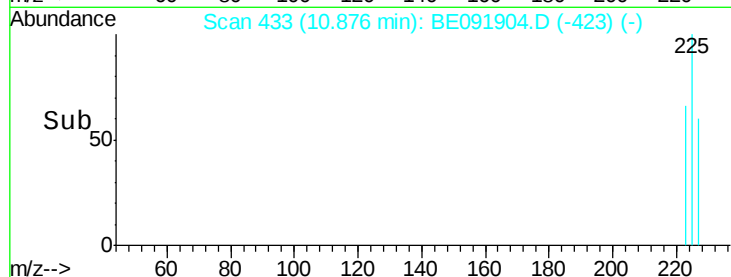
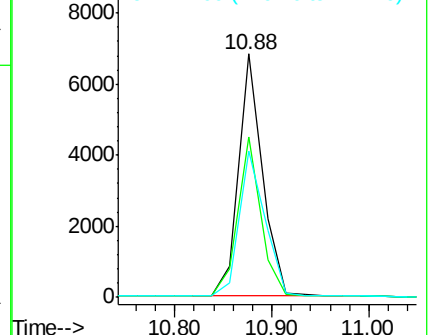
227 63.9 50.6 75.8



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



#14

2-Methylnaphthalene

Concen: 3.90 ng

RT: 12.20 min Scan# 507

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

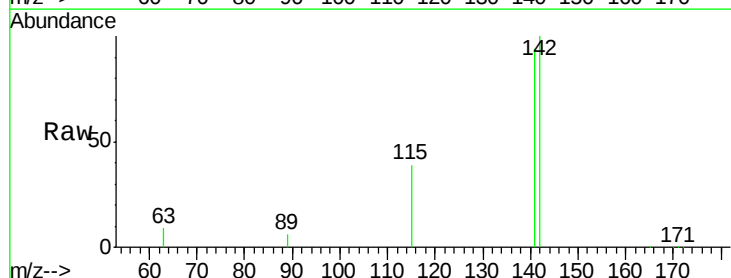
Tgt Ion:142 Resp: 54432

Ion Ratio Lower Upper

142 100

141 93.9 71.9 107.9

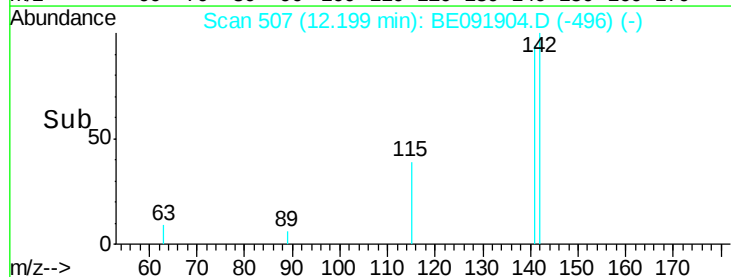
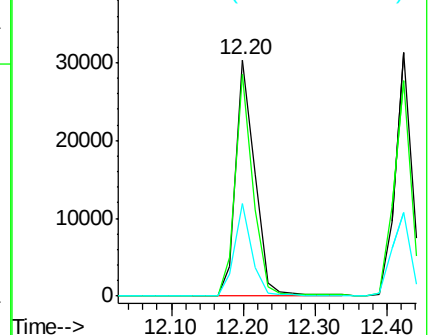
115 39.2 29.9 44.9

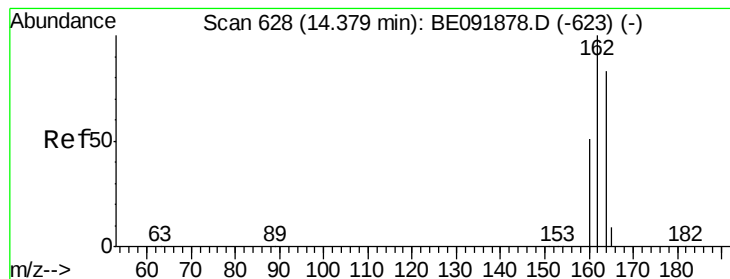


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.38 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

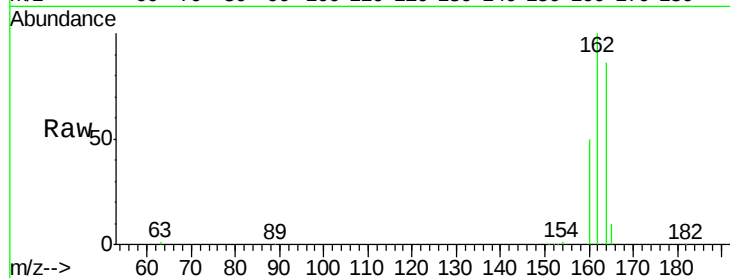
Tot Ion:164 Resp: 57616

Ion Ratio Lower Upper

164 100

162 116.8 71.8 107.8#

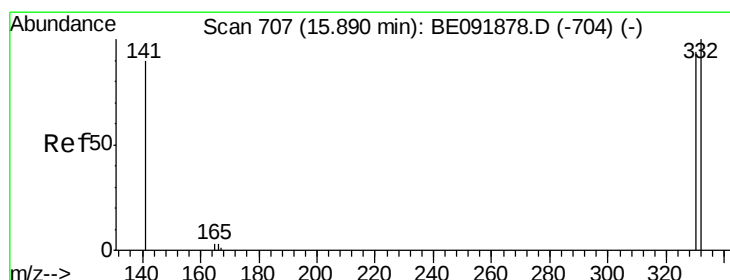
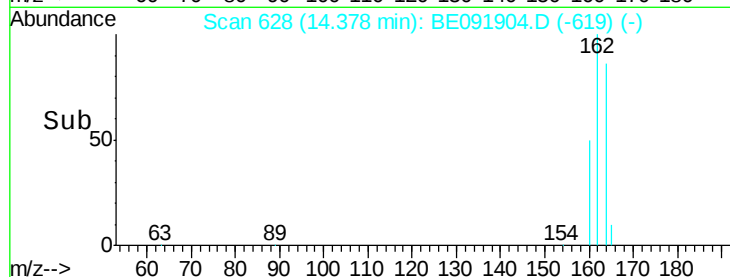
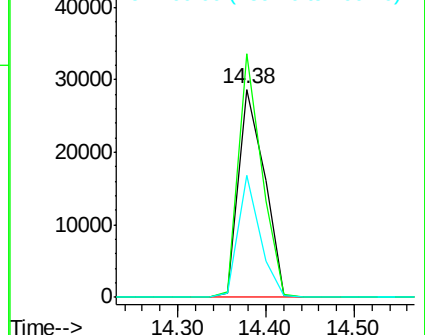
160 58.8 28.0 42.0#



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



#16

2,4,6-Tribromophenol

Concen: 9.70 ng

RT: 15.87 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

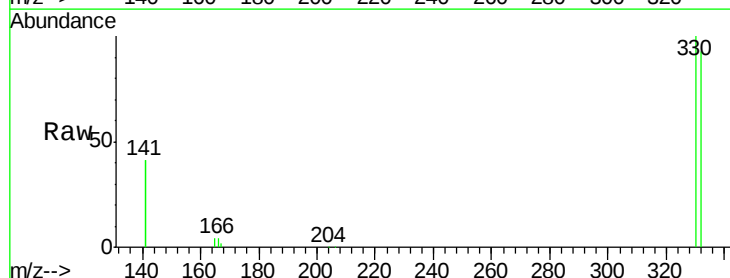
Tgt Ion:330 Resp: 15923

Ion Ratio Lower Upper

330 100

332 96.6 77.0 115.6

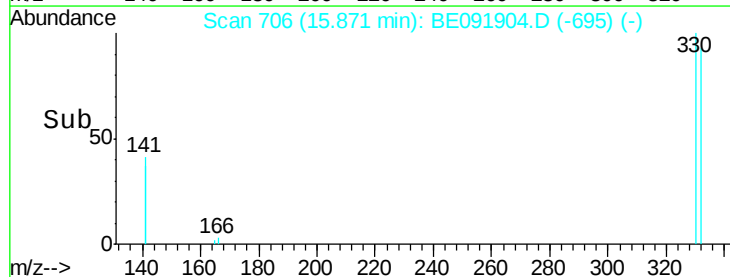
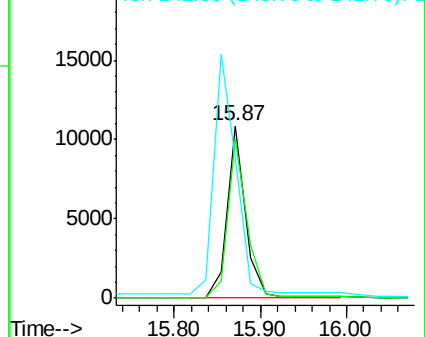
141 166.8 138.4 207.6

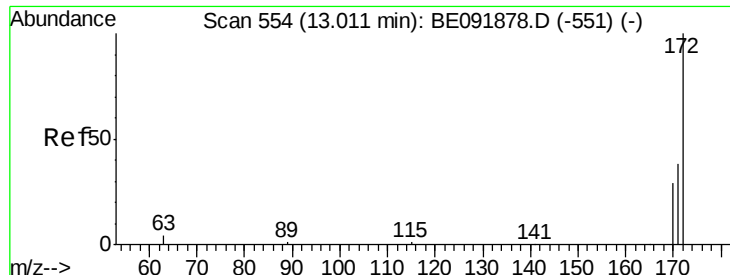


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

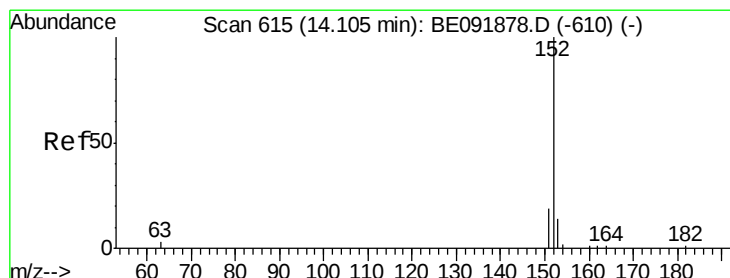
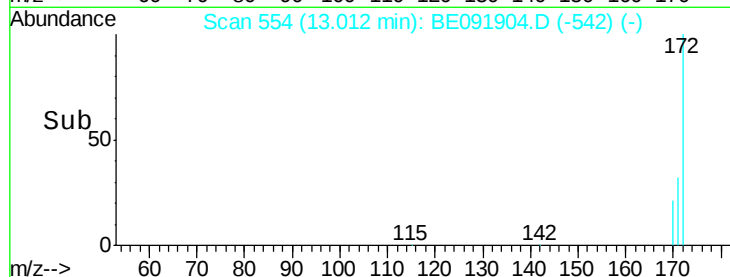
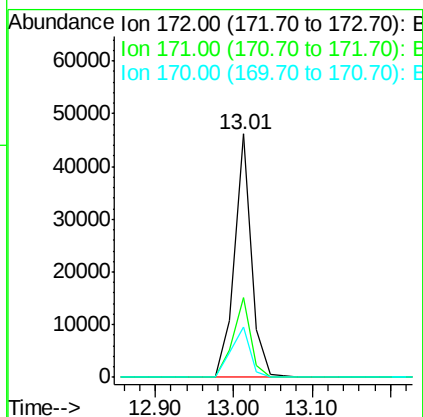
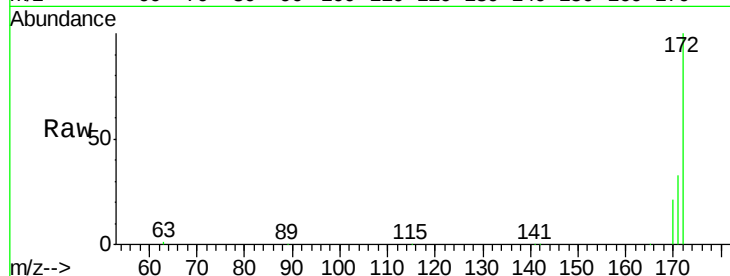




#17
2-Fluorobiphenyl
Concen: 3.98 ng
RT: 13.01 min Scan# 554
Delta R.T. 0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

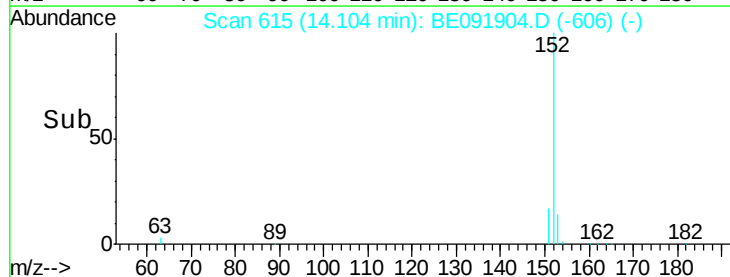
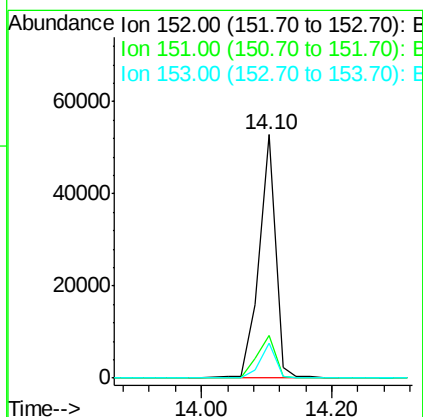
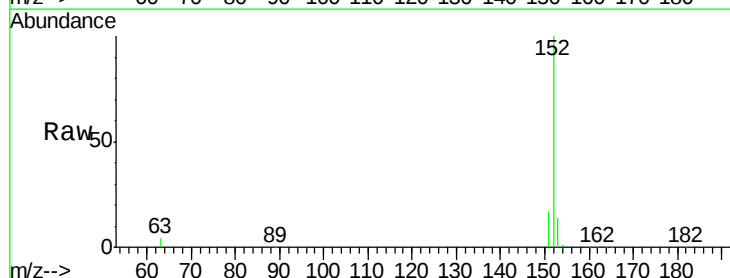
Instrument :
BNA_E
ClientSampleId :
PB91033BS

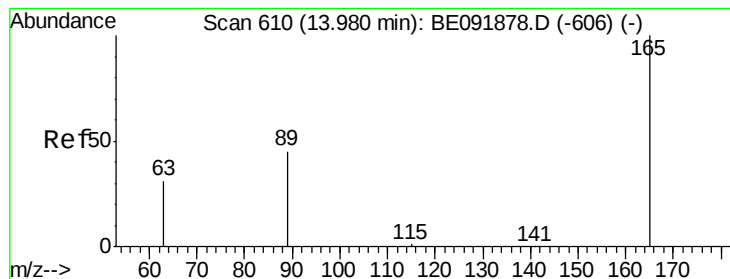
Tot Ion:172 Resp: 69583
Ion Ratio Lower Upper
172 100
171 32.6 24.3 36.5
170 20.9 14.9 22.3



#18
Acenaphthylene
Concen: 3.83 ng
RT: 14.10 min Scan# 615
Delta R.T. -0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

Tgt Ion:152 Resp: 99951
Ion Ratio Lower Upper
152 100
151 19.5 19.4 29.2
153 13.9 14.4 21.6#





#19

2,6-Dinitrotoluene

Concen: 3.90 ng

RT: 13.96 min Scan# 609

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

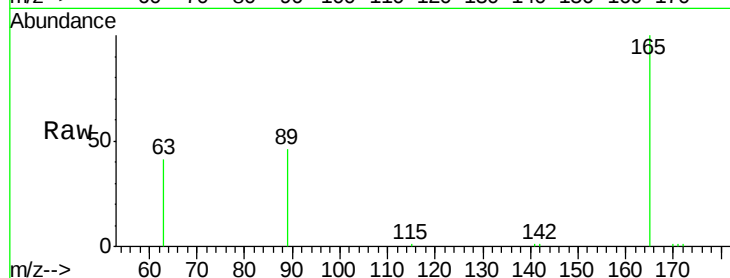
Tot Ion:165 Resp: 15185

Ion Ratio Lower Upper

165 100

63 82.5 65.9 98.9

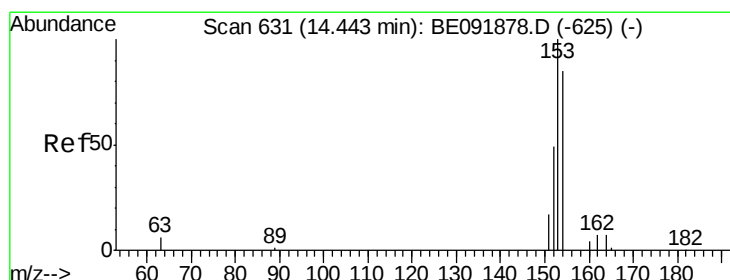
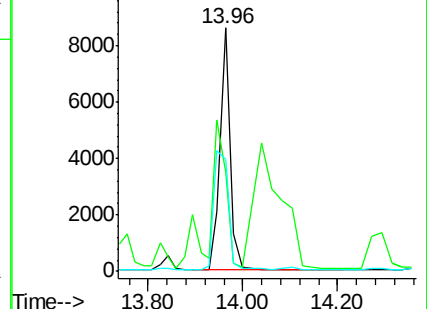
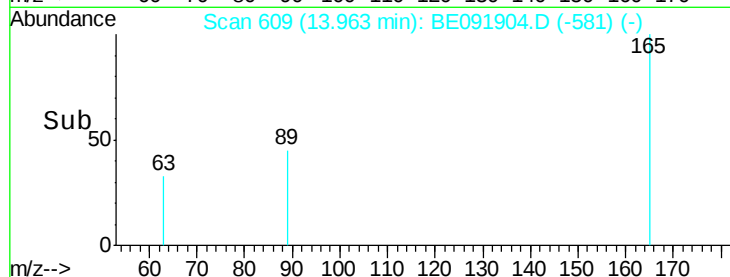
89 69.8 59.1 88.7



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BE0

Ion 89.00 (88.70 to 89.70): BE0



#20

Acenaphthene

Concen: 3.98 ng

RT: 14.44 min Scan# 631

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

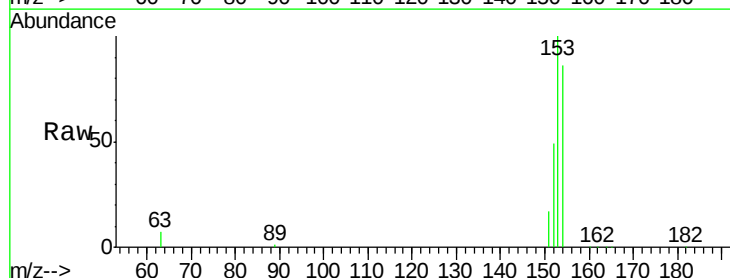
Tgt Ion:154 Resp: 63434

Ion Ratio Lower Upper

154 100

153 104.7 88.1 132.1

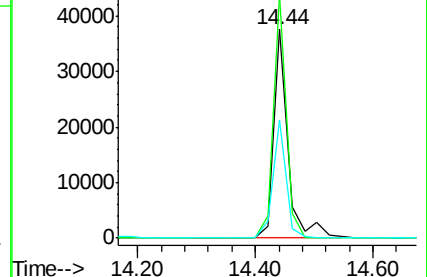
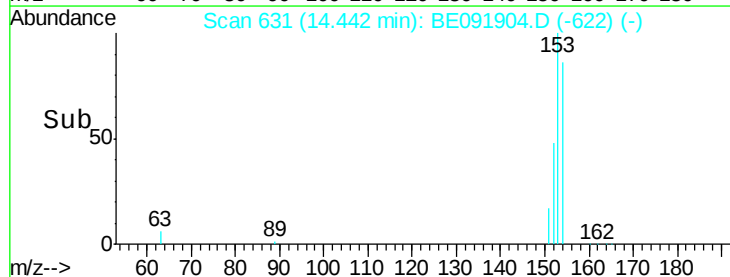
152 51.9 44.2 66.2

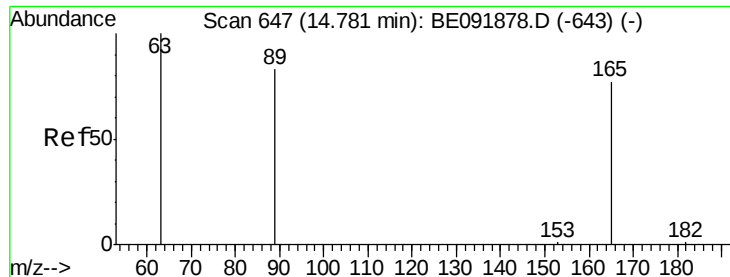


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

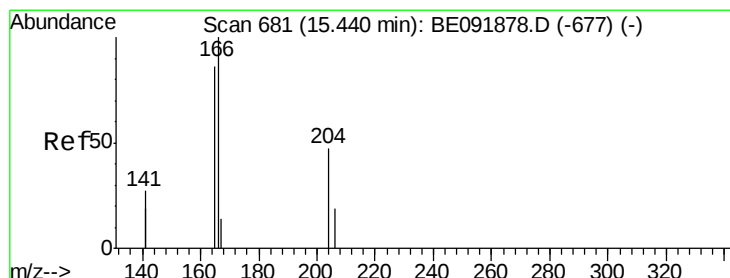
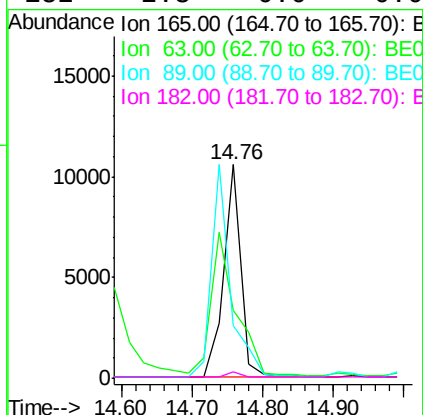
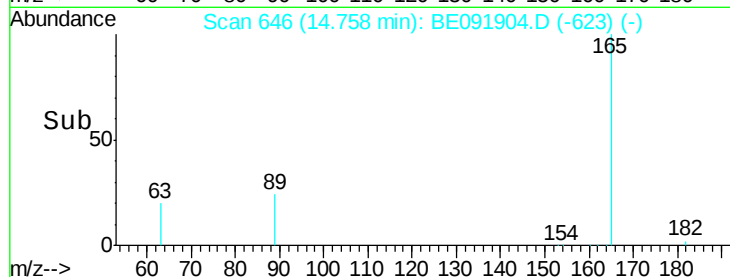
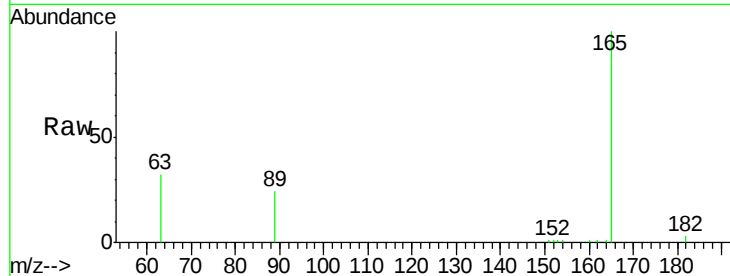




#21
2,4-Dinitrotoluene
Concen: 4.03 ng
RT: 14.76 min Scan# 646
Delta R.T. -0.02 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

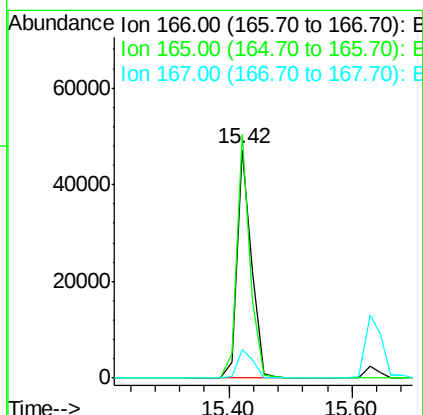
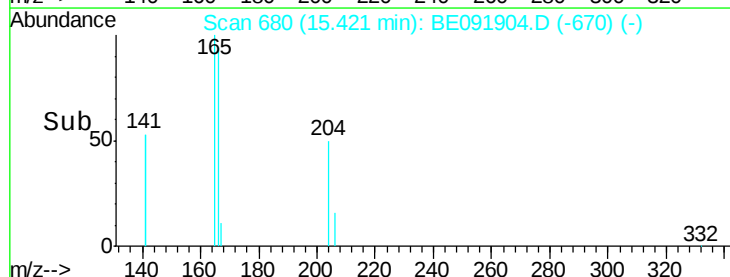
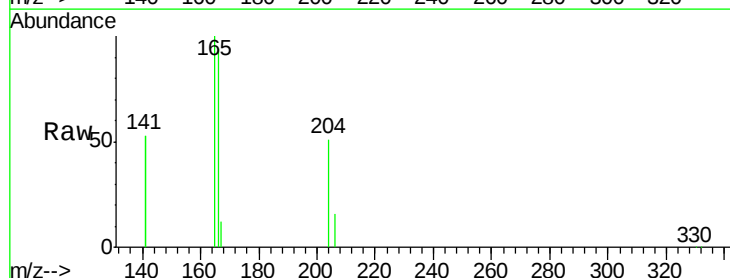
Instrument :
BNA_E
ClientSampleId :
PB91033BS

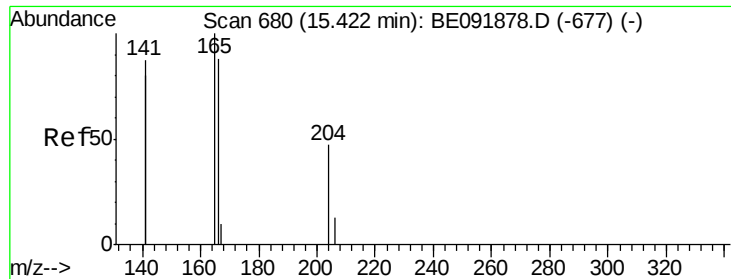
Tot Ion:165 Resp: 17951
Ion Ratio Lower Upper
165 100
63 0.0 0.0 0.0
89 0.0 99.8 149.8#
182 2.3 0.0 0.0#



#22
Fluorene
Concen: 3.93 ng
RT: 15.42 min Scan# 680
Delta R.T. -0.02 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

Tgt Ion:166 Resp: 76564
Ion Ratio Lower Upper
166 100
165 98.4 78.6 117.8
167 13.5 10.8 16.2

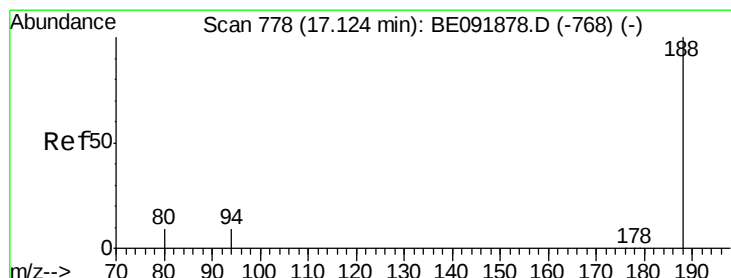
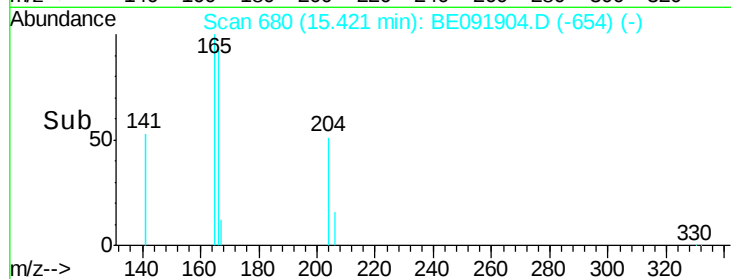
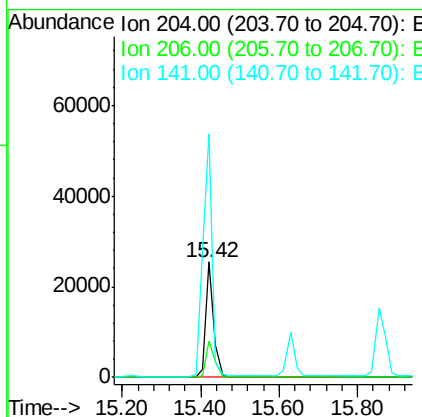
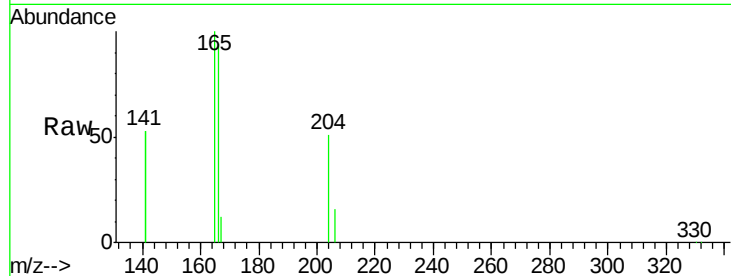




#23
4-Chlorophenyl-phenylether
Concen: 3.79 ng
RT: 15.42 min Scan# 680
Delta R.T. -0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

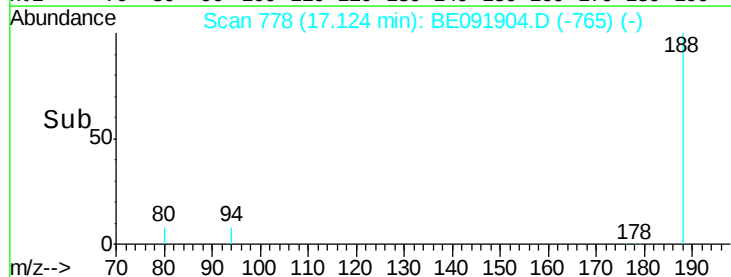
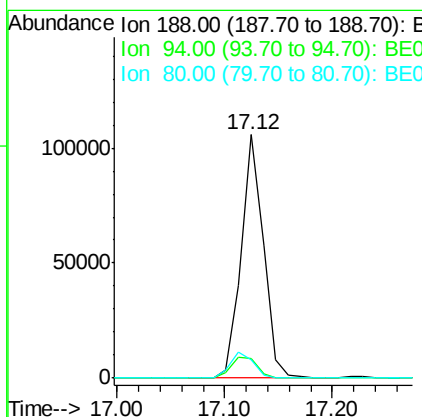
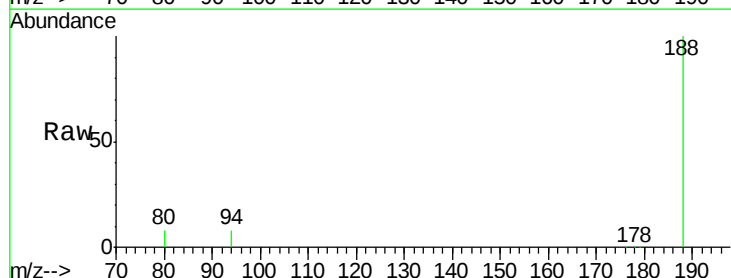
Instrument :
BNA_E
ClientSampleId :
PB91033BS

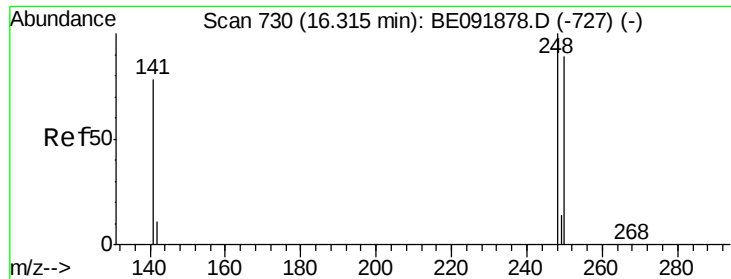
Tot Ion:204 Resp: 36249
Ion Ratio Lower Upper
204 100
206 34.1 27.8 41.6
141 245.0 197.6 296.4



#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.12 min Scan# 778
Delta R.T. 0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

Tgt Ion:188 Resp: 150715
Ion Ratio Lower Upper
188 100
94 8.1 4.1 6.1#
80 7.6 3.4 5.2#





#25

4-Bromophenyl-phenylether

Concen: 4.11 ng

RT: 16.31 min Scan# 730

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

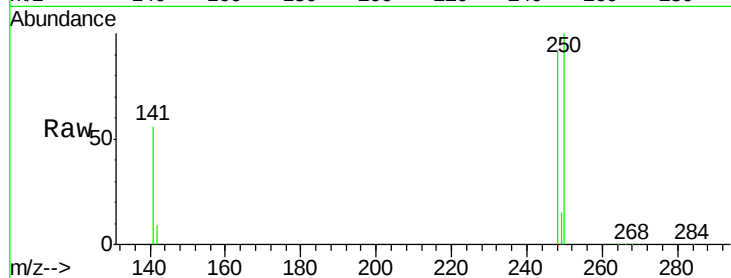
Tot Ion:248 Resp: 22259

Ion Ratio Lower Upper

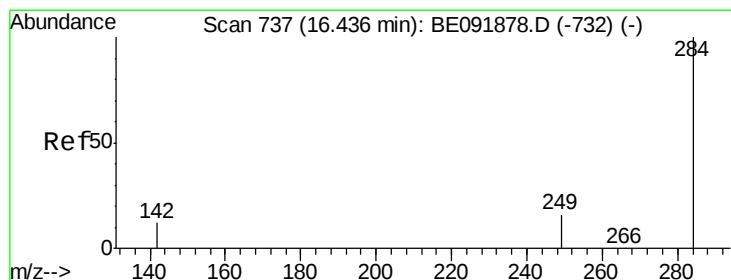
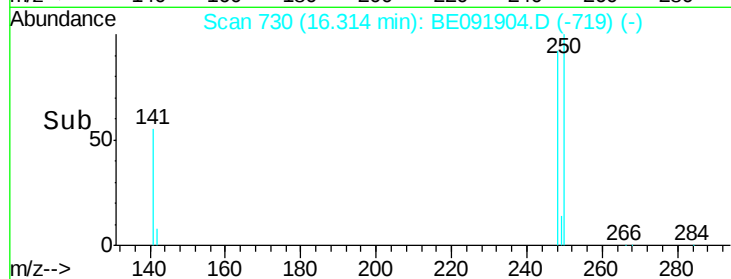
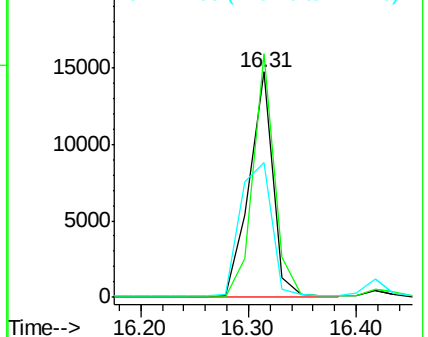
248 100

250 98.8 75.7 113.5

141 79.2 64.6 97.0



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



#26

Hexachlorobenzene

Concen: 4.17 ng

RT: 16.43 min Scan# 737

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

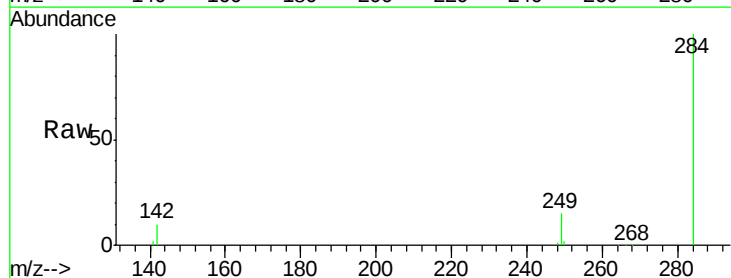
Tgt Ion:284 Resp: 23108

Ion Ratio Lower Upper

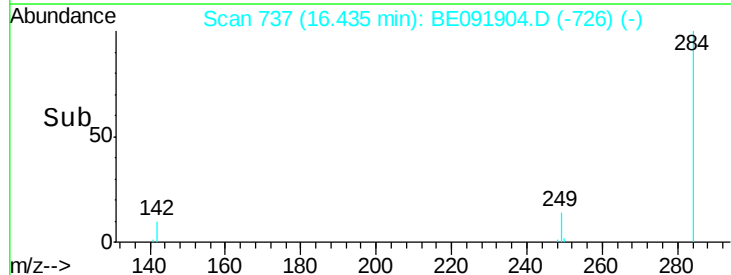
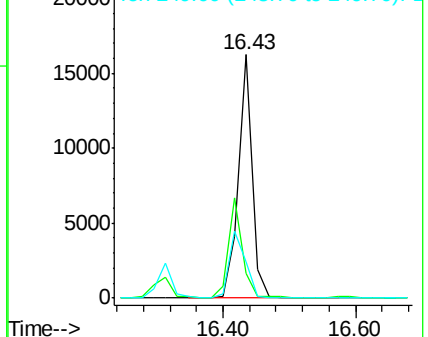
284 100

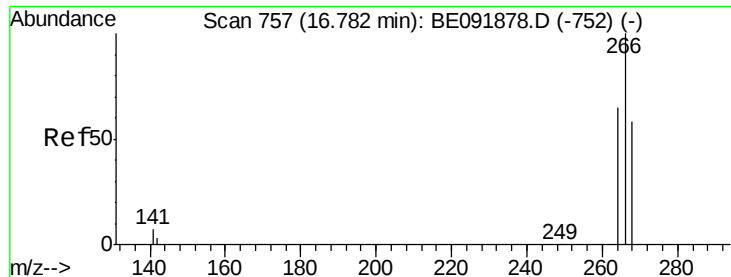
142 40.5 31.4 47.2

249 31.7 25.3 37.9



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





#27

Pentachlorophenol

Concen: 7.60 ng

RT: 16.78 min Scan# 757

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

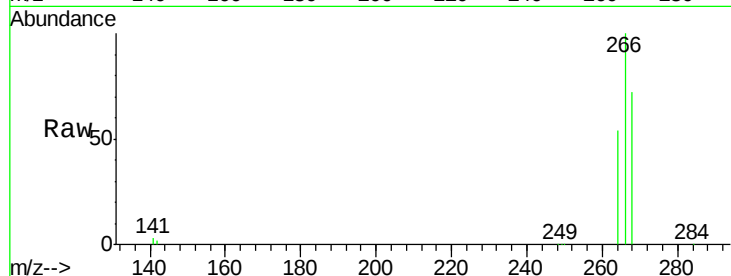
Tot Ion:266 Resp: 22870

Ion Ratio Lower Upper

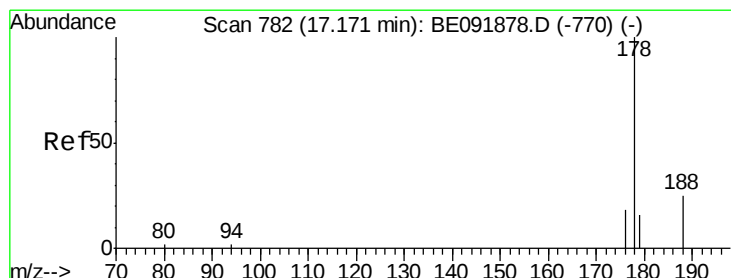
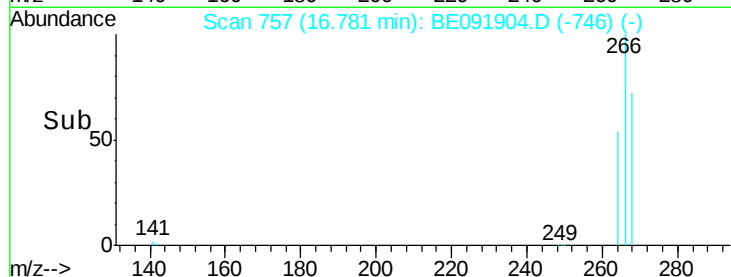
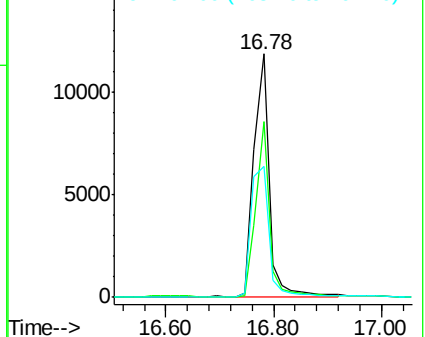
266 100

268 72.1 60.5 90.7

264 53.9 51.0 76.4



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



#28

Phenanthrene

Concen: 4.01 ng

RT: 17.16 min Scan# 781

Delta R.T. -0.01 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

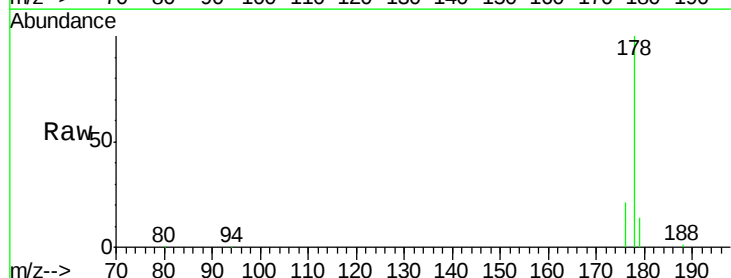
Tgt Ion:178 Resp: 140145

Ion Ratio Lower Upper

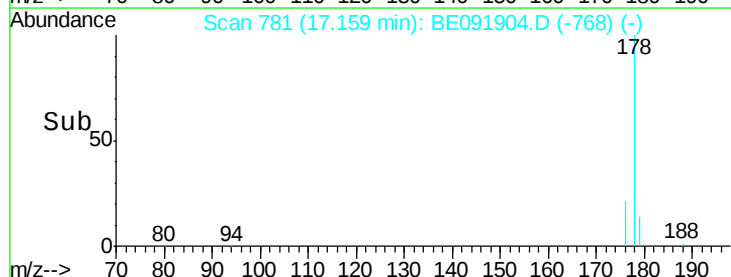
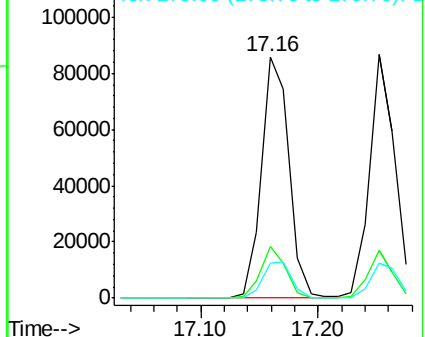
178 100

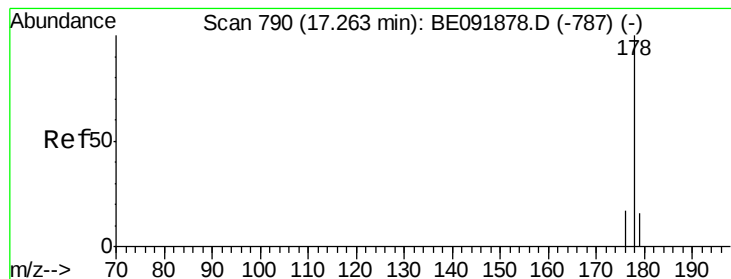
176 19.5 15.4 23.2

179 15.6 12.9 19.3



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





#29

Anthracene

Concen: 4.29 ng

RT: 17.25 min Scan# 789

Delta R.T. -0.01 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

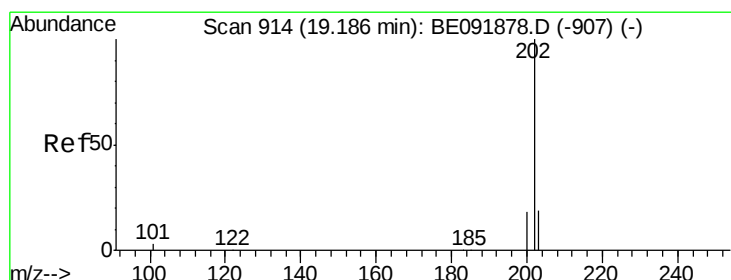
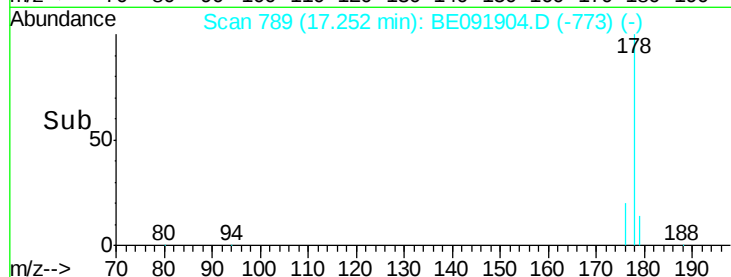
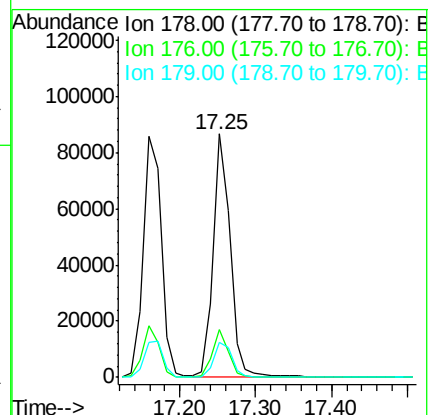
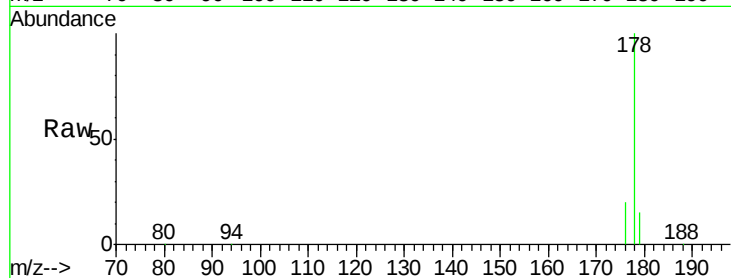
Tot Ion:178 Resp: 133488

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

179 15.2 12.1 18.1



#30

Fluoranthene

Concen: 4.35 ng

RT: 19.17 min Scan# 913

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

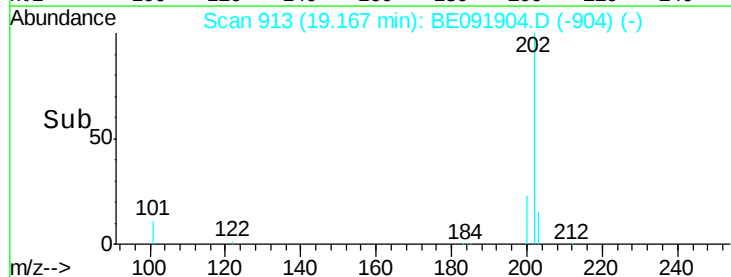
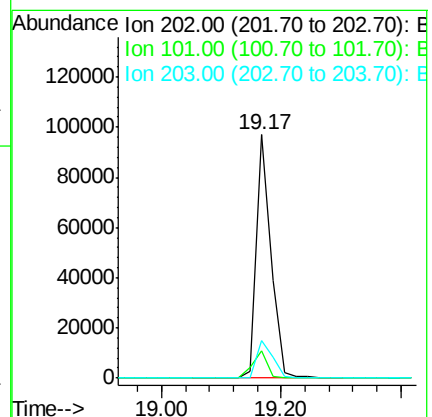
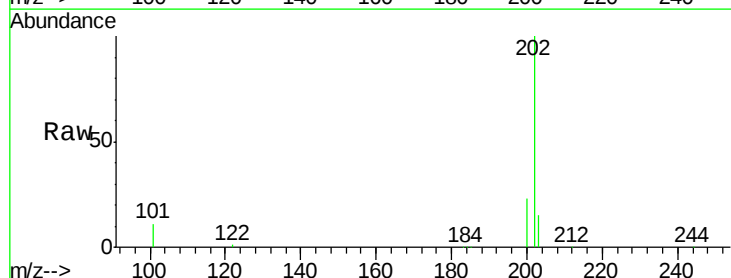
Tgt Ion:202 Resp: 164143

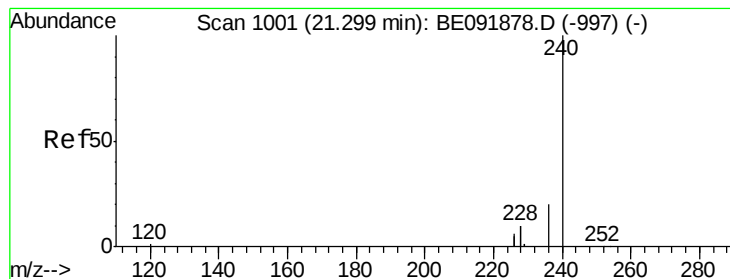
Ion Ratio Lower Upper

202 100

101 11.4 9.4 14.0

203 17.3 14.3 21.5





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.30 min Scan# 1001

Delta R.T. 0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

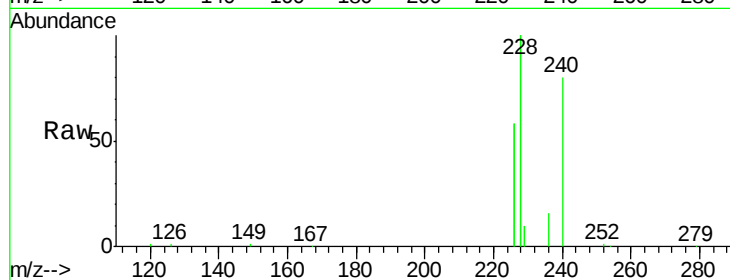
Tot Ion:240 Resp: 129305

Ion Ratio Lower Upper

240 100

120 0.9 1.2 1.8#

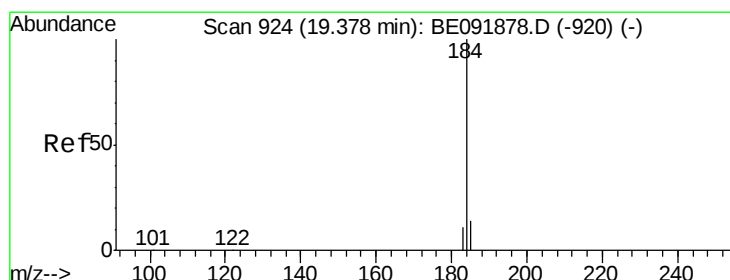
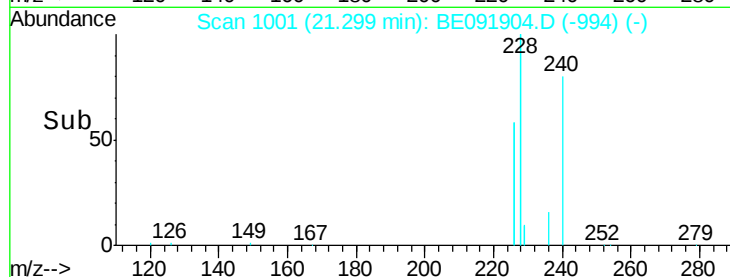
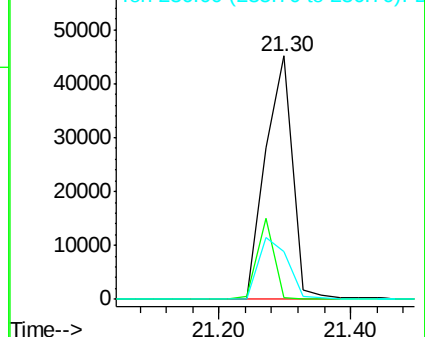
236 19.7 19.8 29.8#



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



#32

Benzidine

Concen: 5.39 ng

RT: 19.36 min Scan# 923

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

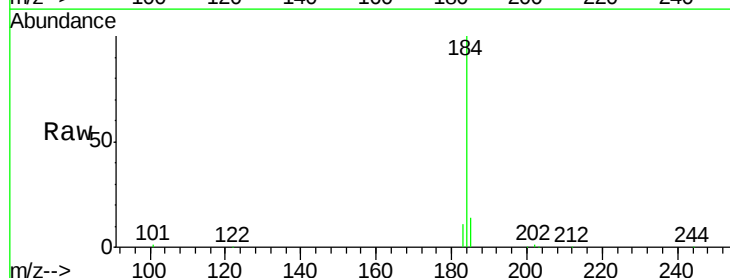
Tgt Ion:184 Resp: 56296

Ion Ratio Lower Upper

184 100

185 13.5 11.4 17.2

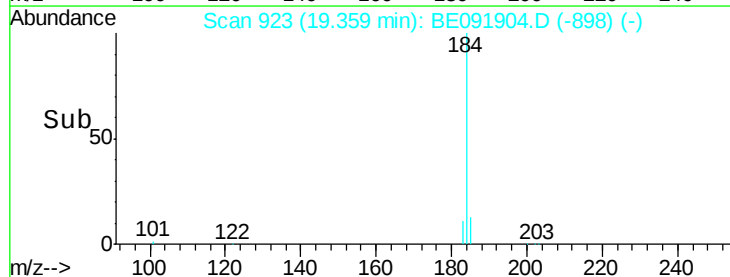
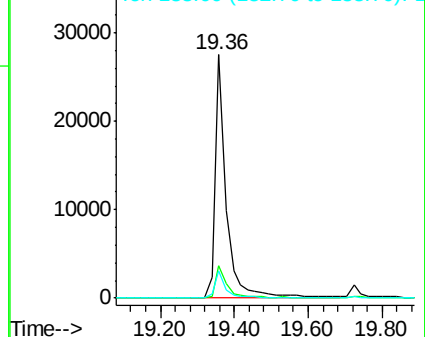
183 11.1 11.8 17.6#

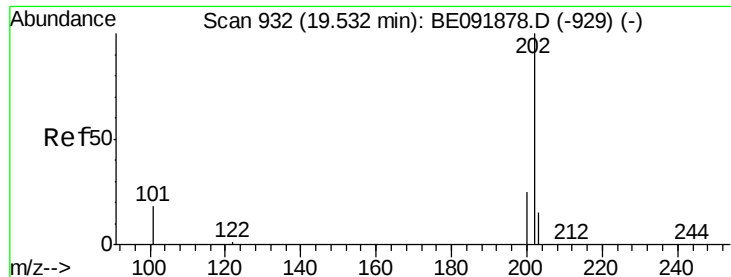


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

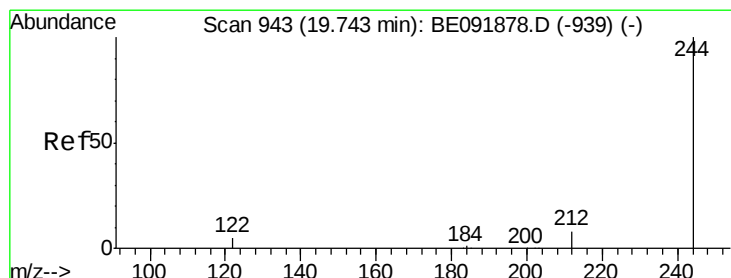
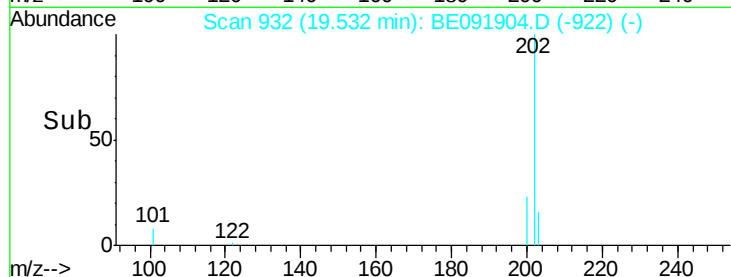
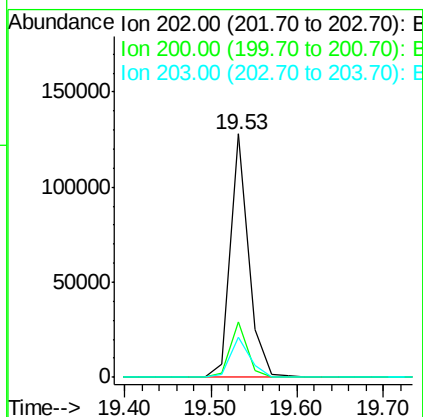
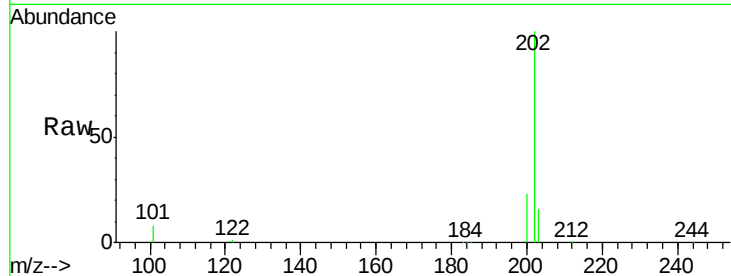




#33
Pvrene
Concen: 5.73 ng
RT: 19.53 min Scan# 932
Delta R.T. 0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

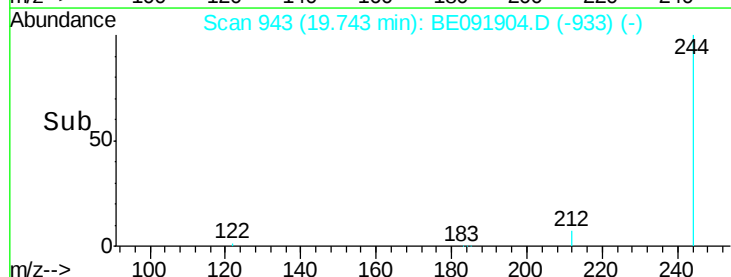
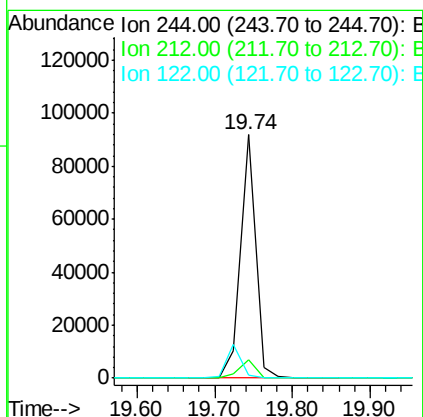
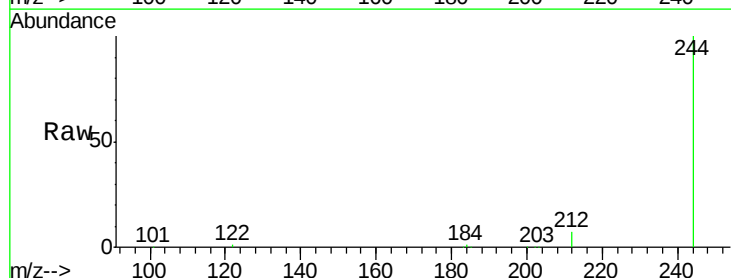
Instrument :
BNA_E
ClientSampleId :
PB91033BS

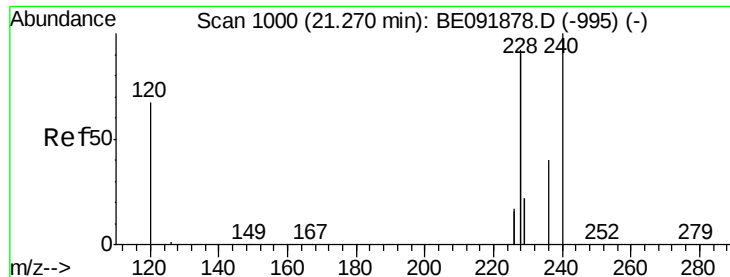
Tot Ion:202 Resp: 186879
Ion Ratio Lower Upper
202 100
200 22.0 16.9 25.3
203 17.7 14.1 21.1



#34
Terphenyl-d14
Concen: -5.00 ng
RT: 19.74 min Scan# 943
Delta R.T. 0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

Tgt Ion:244 Resp: 123916
Ion Ratio Lower Upper
244 100
212 7.3 6.5 9.7
122 1.4 2.9 4.3#

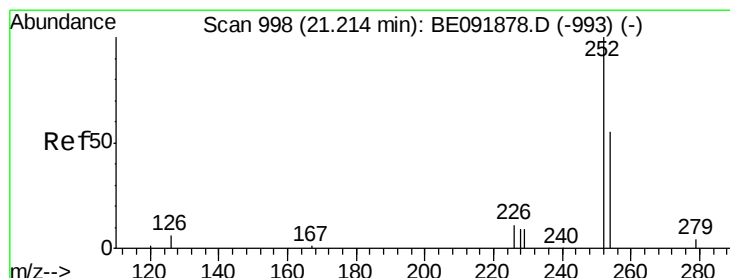
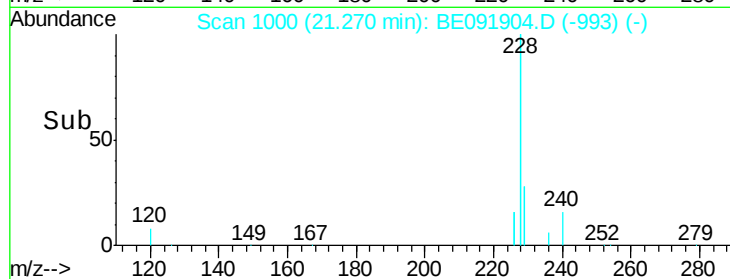
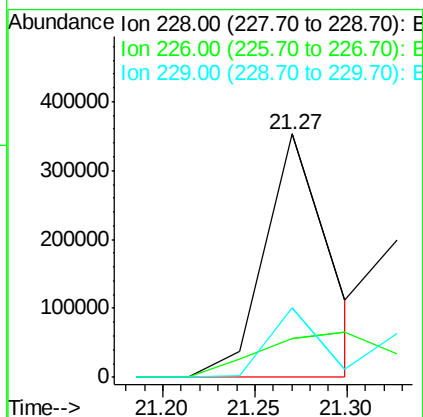
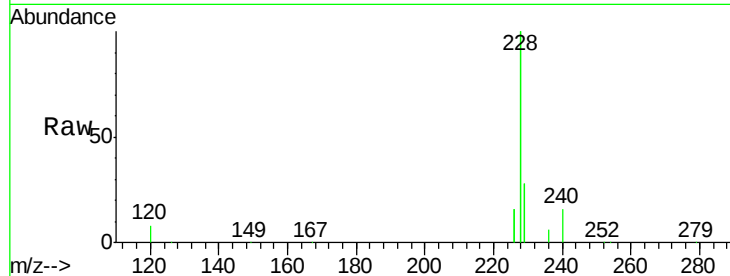




#35
Benzo(a)anthracene
Concen: 5.51 ng m
RT: 21.27 min Scan# 1000
Delta R.T. 0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

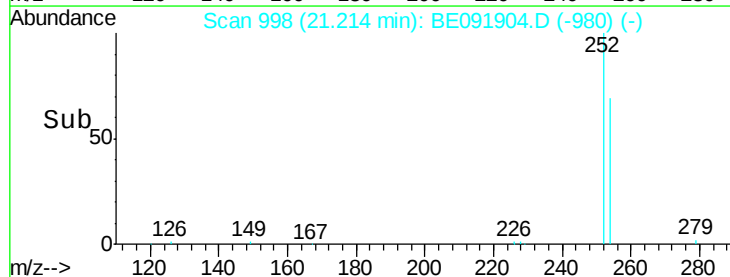
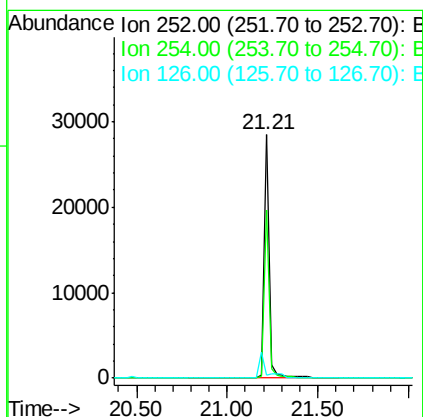
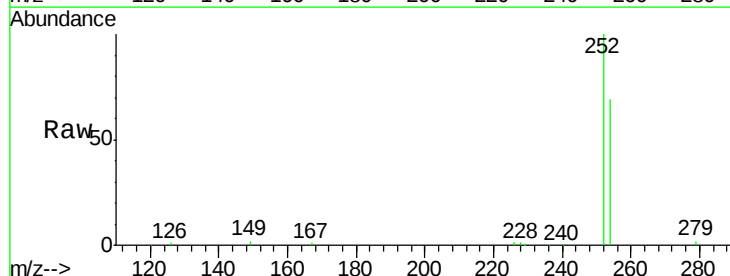
Instrument :
BNA_E
ClientSampleId :
PB91033BS

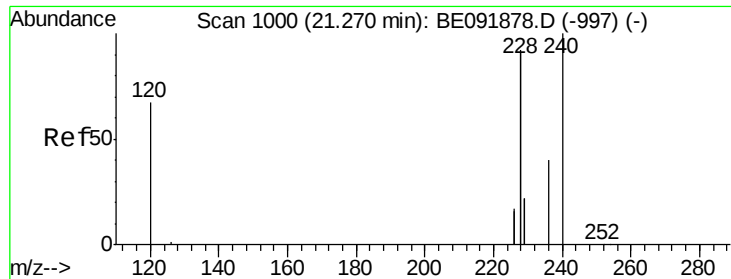
Tot Ion:228 Resp: 857404
Ion Ratio Lower Upper
228 100
226 16.0 21.0 31.4#
229 28.5 15.8 23.8#



#36
3,3'-Dichlorobenzidine
Concen: 5.16 ng
RT: 21.21 min Scan# 998
Delta R.T. 0.00 min
Lab File: BE091904.D
Acq: 8 Jun 2016 16:55

Tgt Ion:252 Resp: 54069
Ion Ratio Lower Upper
252 100
254 69.2 61.5 92.3
126 1.4 2.5 3.7#





#37

Chrysene

Concen: 2.74 ng/mL

RT: 21.33 min Scan# 1002

Delta R.T. 0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleID :

PB91033BS

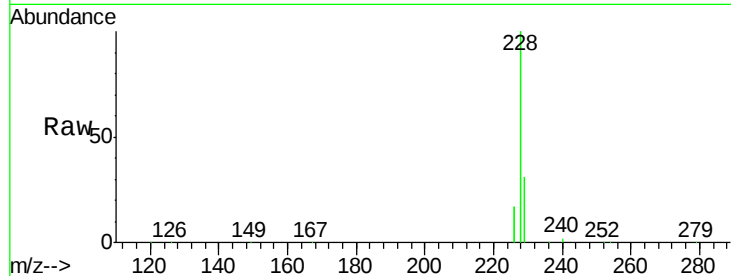
Tot Ion:228 Resp: 361292

Ion Ratio Lower Upper

228 100

226 16.7 27.0 40.6#

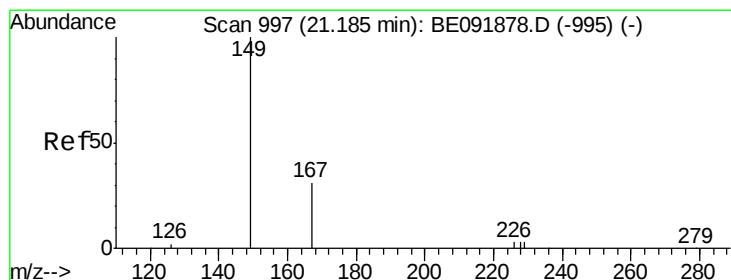
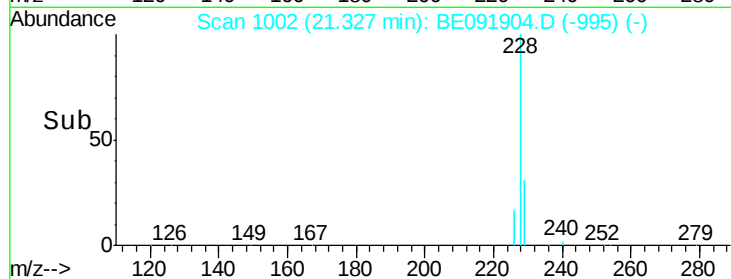
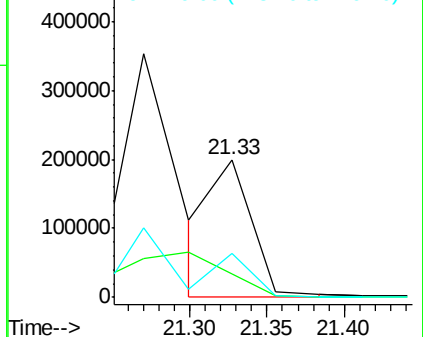
229 31.5 13.8 20.8#



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



#38

Bis(2-ethylhexyl)phthalate

Concen: 4.09 ng/mL

RT: 21.19 min Scan# 997

Delta R.T. 0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

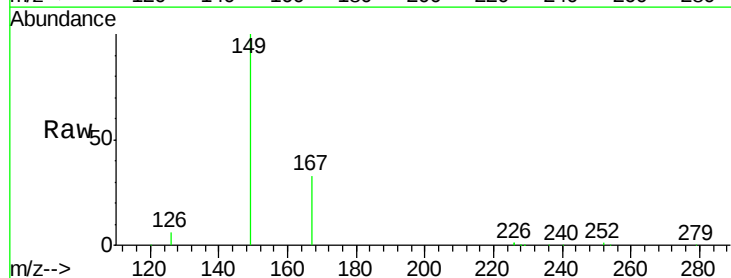
Tgt Ion:149 Resp: 96945

Ion Ratio Lower Upper

149 100

167 32.5 0.0 0.0#

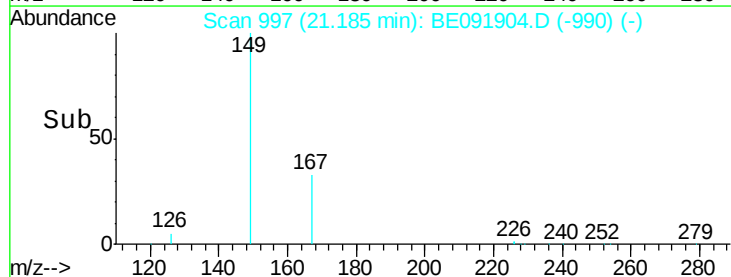
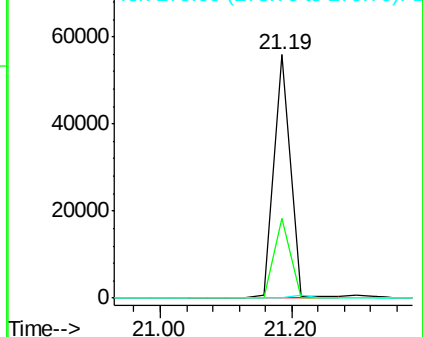
279 0.0 0.0 0.0

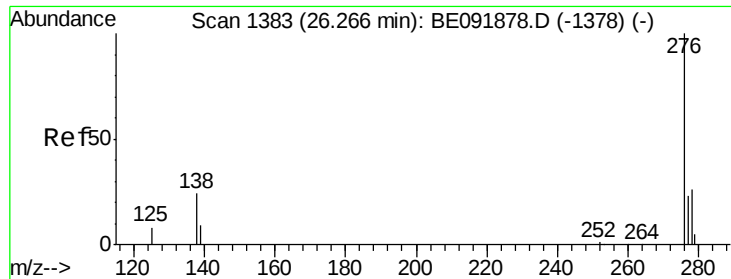


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#39

Indeno(1,2,3-cd)pyrene

Concen: Below Cal

RT: 26.27 min Scan# 1383

Delta R.T. 0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

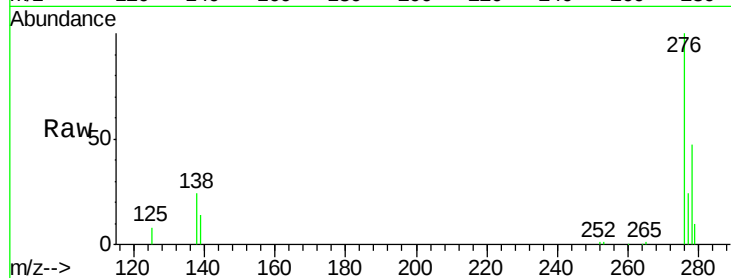
Tot Ion:276 Resp: 201334

Ion Ratio Lower Upper

276 100

138 25.9 19.7 29.5

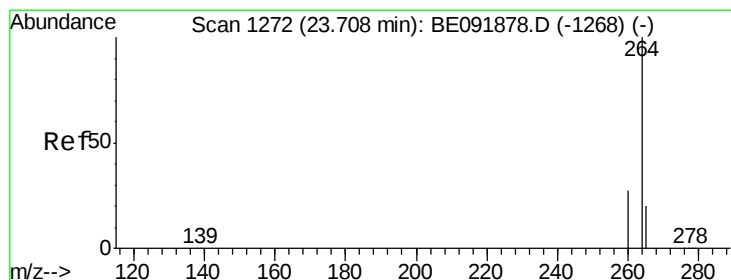
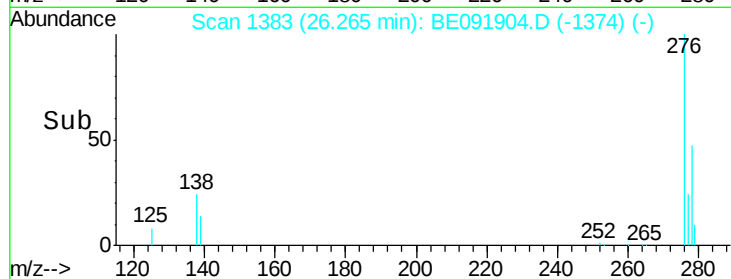
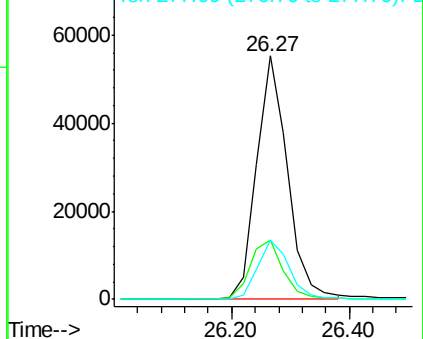
277 24.8 20.1 30.1



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#40

Perylene-d12

Concen: 5.00 ng

RT: 23.71 min Scan# 1272

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

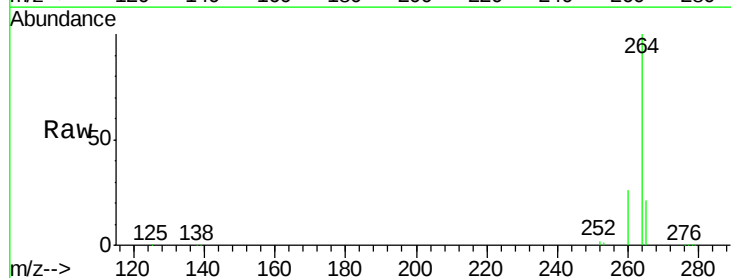
Tgt Ion:264 Resp: 185208

Ion Ratio Lower Upper

264 100

260 26.4 20.3 30.5

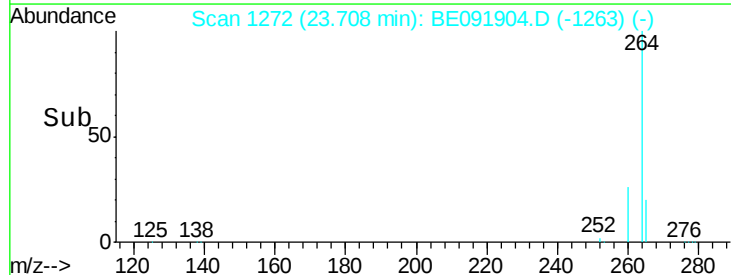
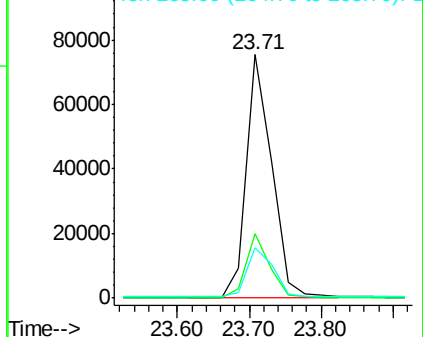
265 20.6 17.6 26.4

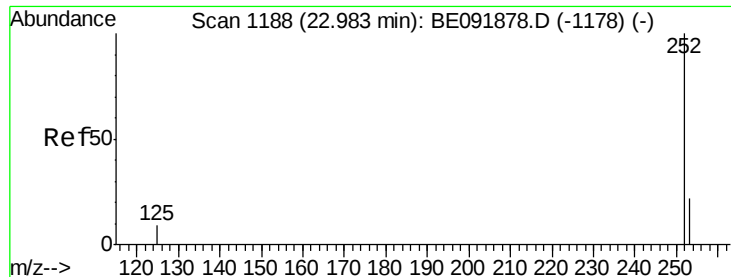


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#41

Benzo(b)fluoranthene

Concen: 4.10 ng

RT: 22.98 min Scan# 1187

Delta R.T. -0.01 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

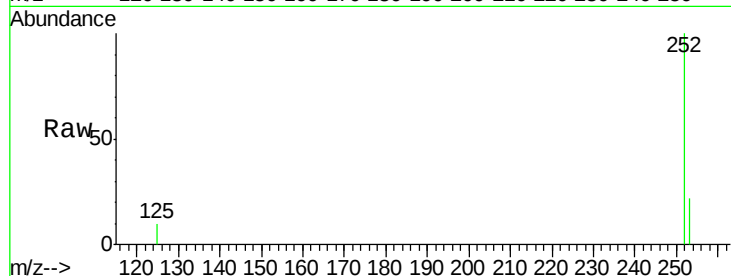
Tot Ion:252 Resp: 185588

Ion Ratio Lower Upper

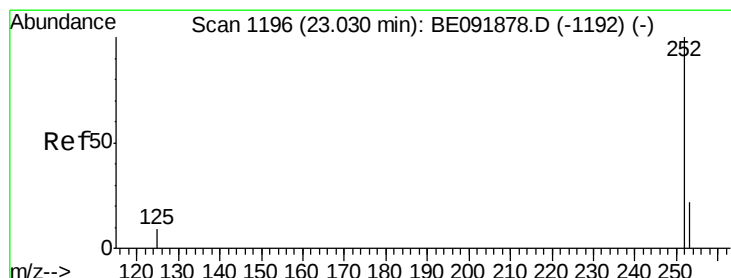
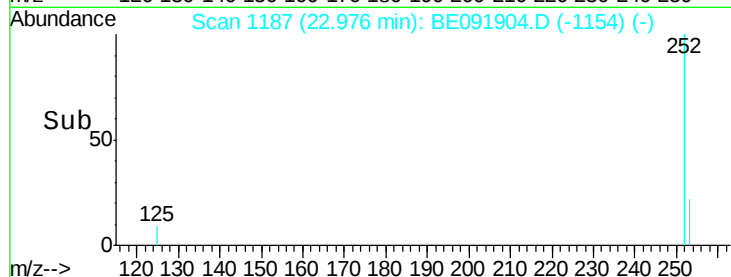
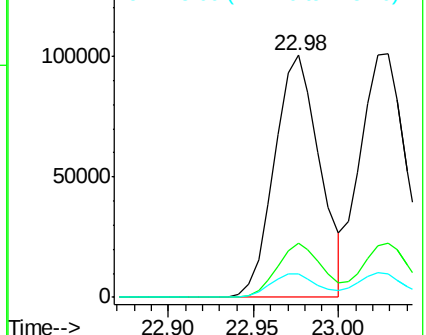
252 100

253 22.3 17.8 26.6

125 9.6 9.4 14.2



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



#42

Benzo(k)fluoranthene

Concen: 4.22 ng

RT: 23.03 min Scan# 1196

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

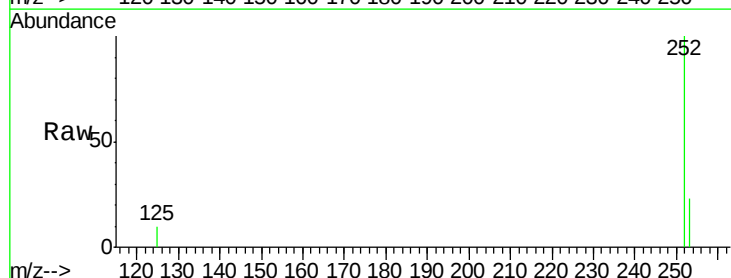
Tgt Ion:252 Resp: 198121

Ion Ratio Lower Upper

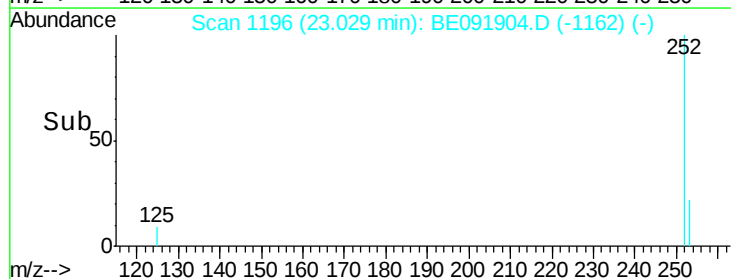
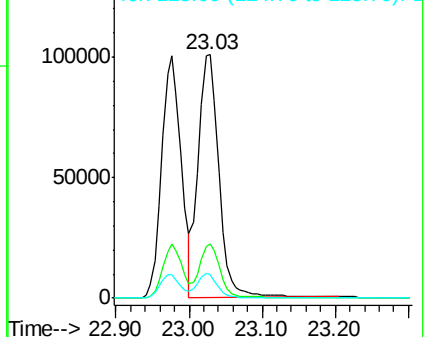
252 100

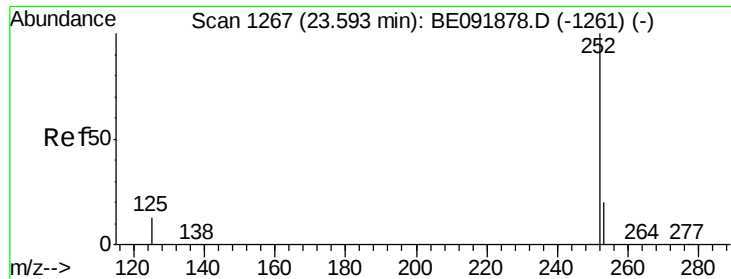
253 22.5 19.4 29.2

125 9.6 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





#43

Benzo(a)pyrene

Concen: 4.13 ng

RT: 23.59 min Scan# 1267

Delta R.T. -0.00 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

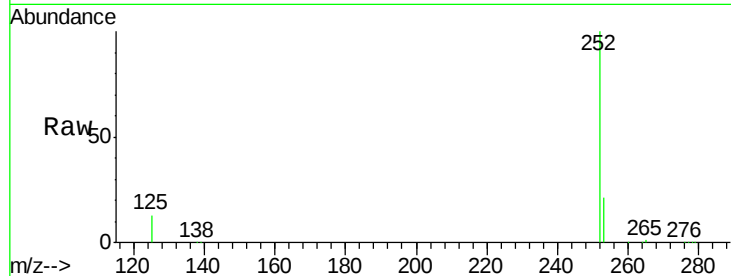
Tot Ion:252 Resp: 175190

Ion Ratio Lower Upper

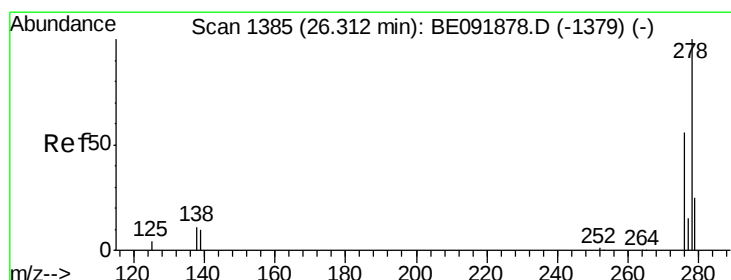
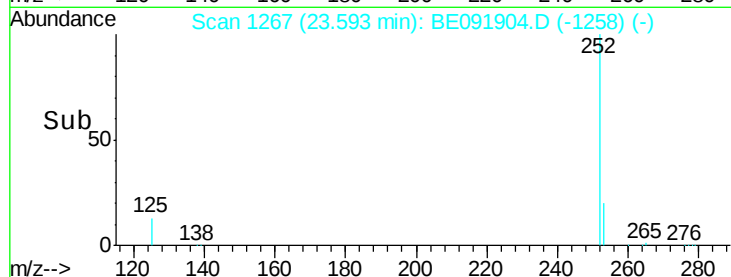
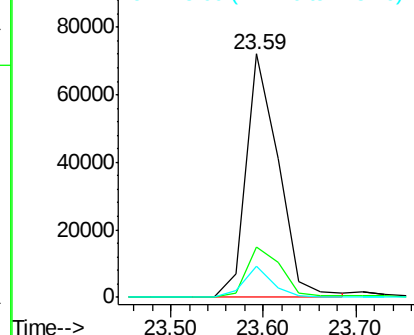
252 100

253 20.6 18.9 28.3

125 12.7 10.5 15.7



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



#44

Dibenzo(a,h)anthracene

Concen: 4.31 ng

RT: 26.29 min Scan# 1384

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

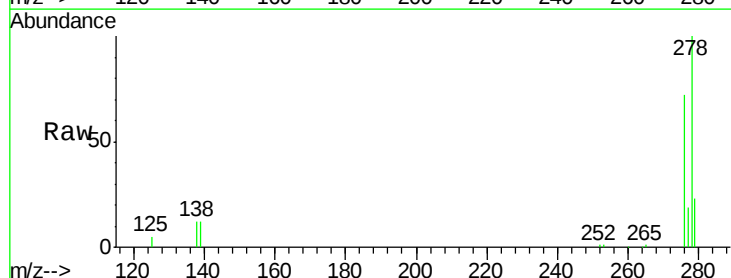
Tgt Ion:278 Resp: 170545

Ion Ratio Lower Upper

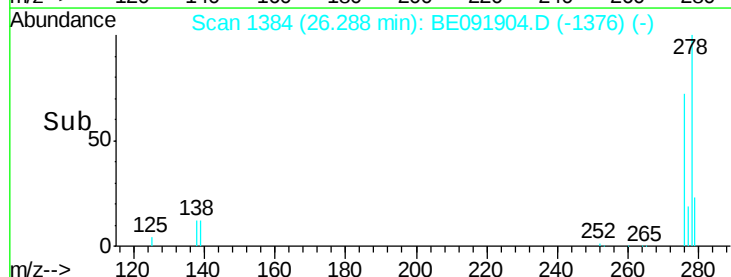
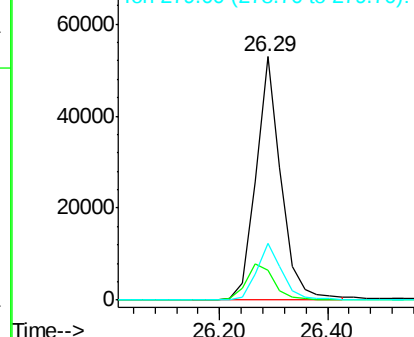
278 100

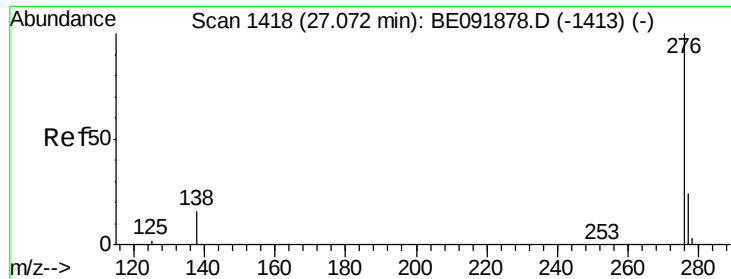
139 12.5 12.6 18.8#

279 23.4 20.0 30.0



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





#45

Benzo(a,h,i)perylene

Concen: 4.08 ng

RT: 27.05 min Scan# 1417

Delta R.T. -0.02 min

Lab File: BE091904.D

Acq: 8 Jun 2016 16:55

Instrument :

BNA_E

ClientSampleId :

PB91033BS

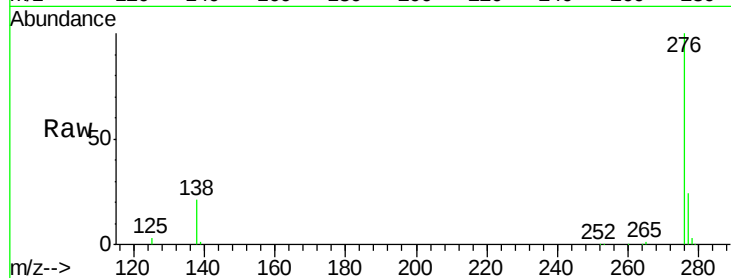
Tot Ion: 276 Resp: 169277

Ion Ratio Lower Upper

276 100

277 23.6 19.5 29.3

138 21.1 17.7 26.5



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

