

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE061516\
 Data File : BE091925.D
 Acq On : 15 Jun 2016 15:13
 Operator : UM/SJ
 Sample : PB91250BS
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB91250BS

Quant Time: Jun 15 15:45:06 2016
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE061416.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 15 12:00:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.20	152	23756	5.00	ng	0.00
8) Naphthalene-d8	11.02	136	104540	5.00	ng	0.03
15) Acenaphthene-d10	14.86	164	75200	5.00	ng	0.00
24) Phenanthrene-d10	17.61	188	159540	5.00	ng	0.00
31) Chrysene-d12	21.76	240	251473	5.00	ng	0.00
40) Perylene-d12	24.16	264	189869	5.00	ng	-0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.74	112	1592	0.34	ng	0.02
5) Phenol-d6	7.37	99	2023	0.40	ng	0.02
9) Nitrobenzene-d5	9.38	82	2628	0.36	ng	0.02
16) 2,4,6-Tribromophenol	16.36	330	498	0.33	ng	0.02
17) 2-Fluorobiphenyl	13.50	172	7642	0.40	ng	0.01
34) Terphenyl-d14	20.22	244	10937	0.36	ng	0.00

Target Compounds				Qvalue		
2) 1,4-Dioxane	3.47	88	1299	0.39	ng	96
3) n-Nitrosodimethylamine	3.83	42	1213	0.32	ng	# 87
6) bis(2-Chloroethyl)ether	7.63	93	2323	0.34	ng	96
7) n-Nitroso-di-n-propylamine	9.02	70	1925	0.41	ng	# 98
10) Nitrobenzene	9.42	77	2481	0.35	ng	# 99
11) bis(2-Chloroethoxy)methane	10.45	93	3211	0.35	ng	# 18
12) Naphthalene	11.04	128	8906	0.39	ng	# 93
13) Hexachlorobutadiene	11.34	225	1487	0.40	ng	98
14) 2-Methylnaphthalene	12.69	142	5829	0.38	ng	98
18) Acenaphthylene	14.59	152	27507	0.36	ng	# 68
19) 2,6-Dinitrotoluene	14.44	165	4197	0.49	ng	# 1
20) Acenaphthene	14.92	154	7740	0.37	ng	# 1
21) 2,4-Dinitrotoluene	15.25	165	7128	0.59	ng	# 1
22) Fluorene	15.91	166	7649	0.37	ng	100
23) 4-Chlorophenyl-phenylether	15.91	204	3877	0.38	ng	92
25) 4-Bromophenyl-phenylether	16.80	248	2307	0.37	ng	94
26) Hexachlorobenzene	16.92	284	2402	0.38	ng	96
27) Pentachlorophenol	17.26	266	416	0.32	ng	94
28) Phenanthrene	17.64	178	15321	0.38	ng	100
29) Anthracene	17.73	178	12666	0.36	ng	100
30) Fluoranthene	19.65	202	59799	0.35	ng	# 88
32) Benzidine	19.86	184	2206	0.32	ng	# 86
33) Pyrene	20.02	202	60750	0.36	ng	# 80
35) Benzo(a)anthracene	21.79	228	42687	1.08	ng	# 91
36) 3,3'-Dichlorobenzidine	21.70	252	1978	0.31	ng	# 99
37) Chrysene	21.79	228	43162	0.75	ng	98
38) Bis(2-ethylhexyl)phthalate	21.64	149	9959	0.38	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.68	276	70797	0.36	ng	98
41) Benzo(b)fluoranthene	23.43	252	18669	0.38	ng	96
42) Benzo(k)fluoranthene	23.48	252	15629	0.35	ng	99
43) Benzo(a)pyrene	24.06	252	15005	0.35	ng	99
44) Dibenzo(a,h)anthracene	26.72	278	14461	0.35	ng	98
45) Benzo(g,h,i)perylene	27.45	276	61769	0.36	ng	97

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE061516\
Data File : BE091925.D
Acq On : 15 Jun 2016 15:13
Operator : UM/SJ
Sample : PB91250BS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB91250BS

Quant Time: Jun 15 15:45:06 2016
Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE061416.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 15 12:00:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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



#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.20 min Scan# 323

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

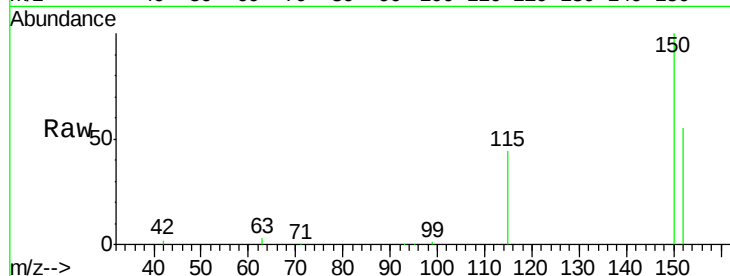
Tgt Ion:152 Resp: 23756

Ion Ratio Lower Upper

152 100

150 180.2 123.9 185.9

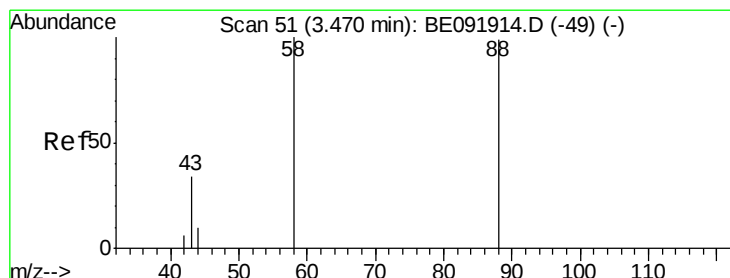
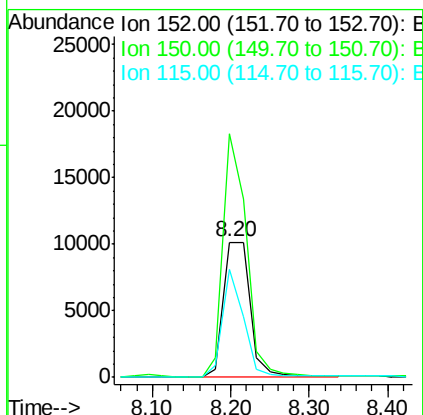
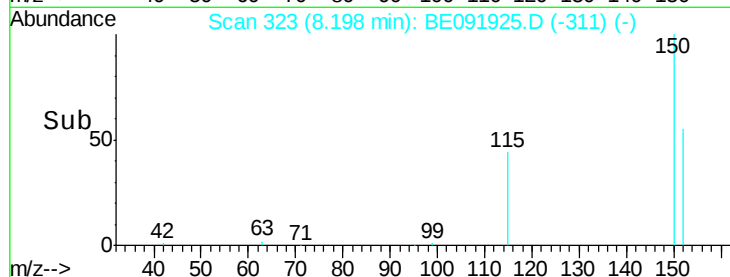
115 79.9 48.3 72.5#



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: 0.39 ng

RT: 3.47 min Scan# 51

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

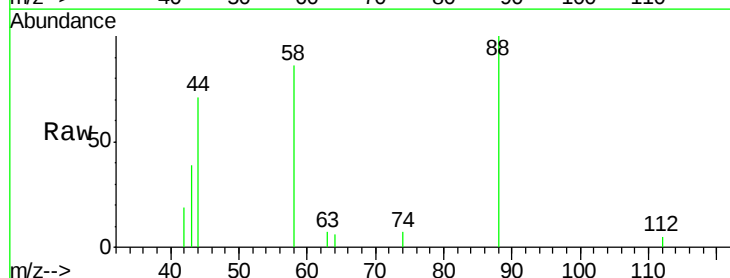
Tgt Ion: 88 Resp: 1299

Ion Ratio Lower Upper

88 100

58 82.2 63.0 94.4

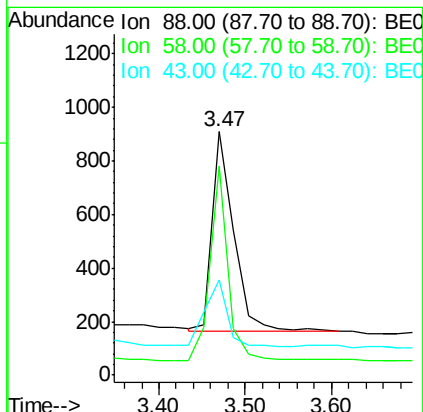
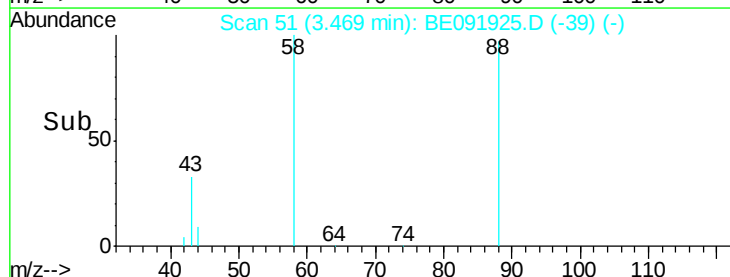
43 33.4 29.1 43.7



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: 0.32 ng

RT: 3.83 min Scan# 72

Delta R.T. 0.03 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

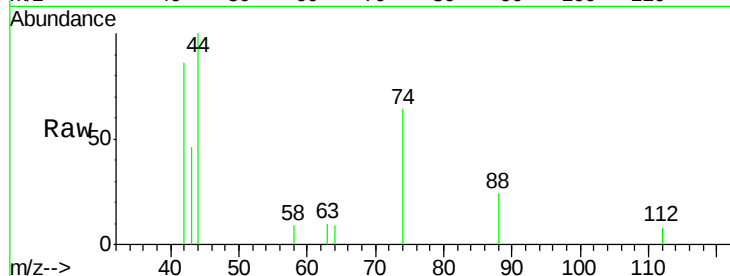
Tgt Ion: 42 Resp: 1213

Ion Ratio Lower Upper

42 100

74 102.2 93.4 140.0

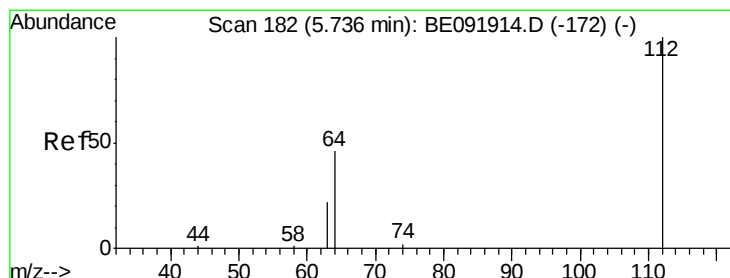
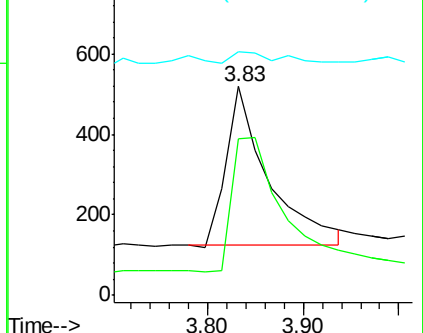
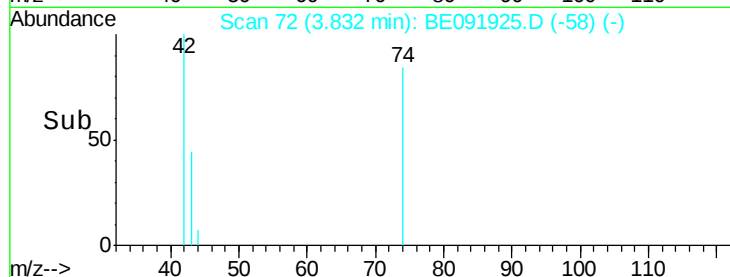
44 8.4 5.0 7.6#



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: 0.34 ng

RT: 5.74 min Scan# 182

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

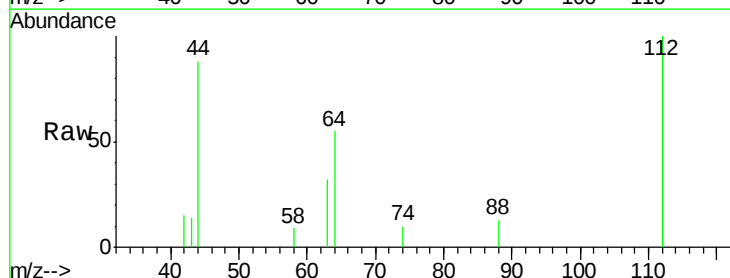
Tgt Ion: 112 Resp: 1592

Ion Ratio Lower Upper

112 100

64 67.5 53.7 80.5

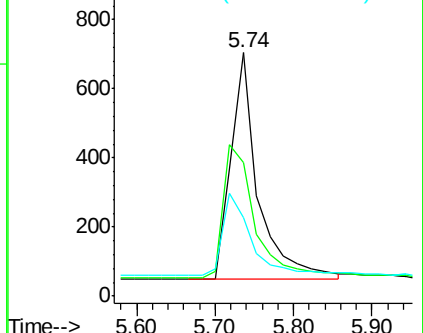
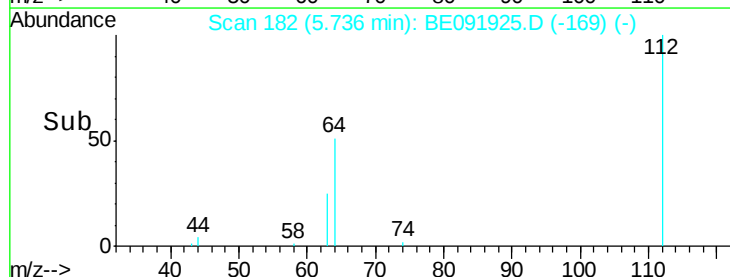
63 38.3 29.5 44.3

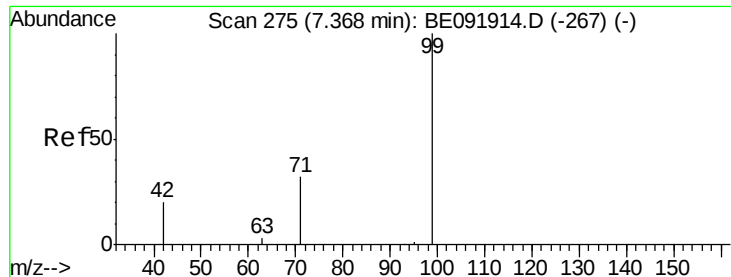


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.40 ng

RT: 7.37 min Scan# 275

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

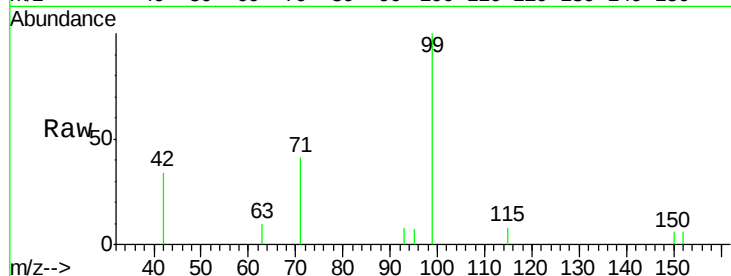
Tgt Ion: 99 Resp: 2023

Ion Ratio Lower Upper

99 100

42 29.2 19.6 29.4

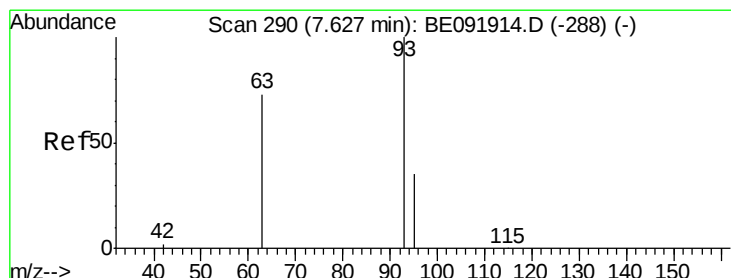
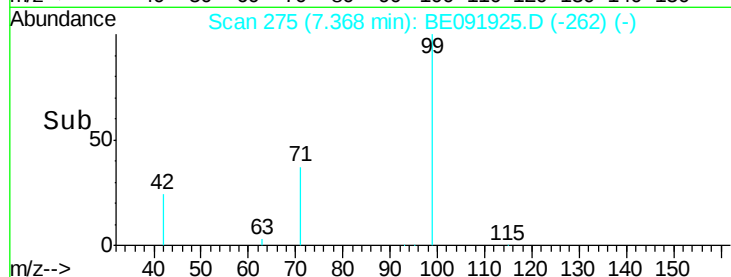
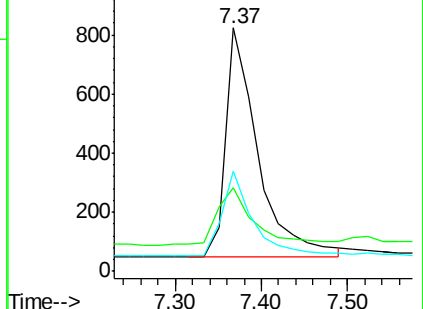
71 35.6 28.1 42.1



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: 0.34 ng

RT: 7.63 min Scan# 290

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

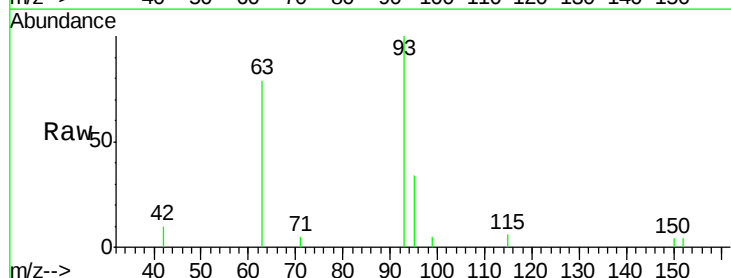
Tgt Ion: 93 Resp: 2323

Ion Ratio Lower Upper

93 100

63 87.0 66.2 99.4

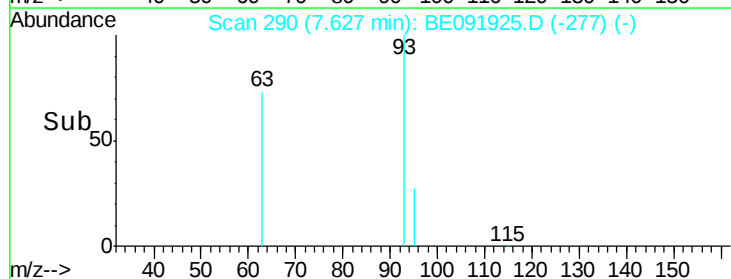
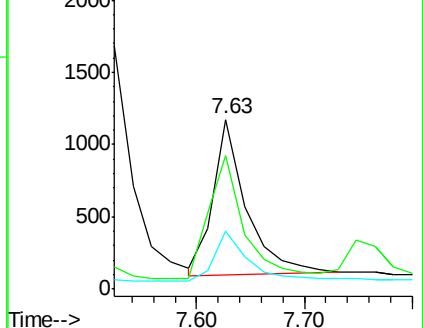
95 34.1 25.5 38.3

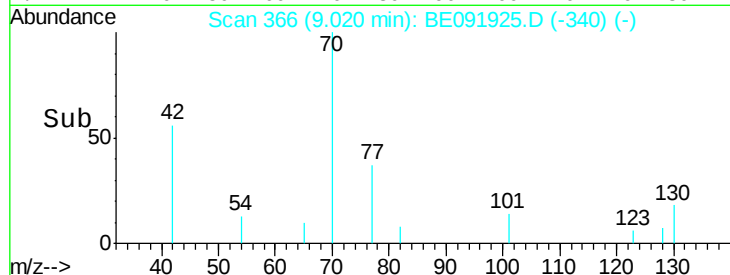
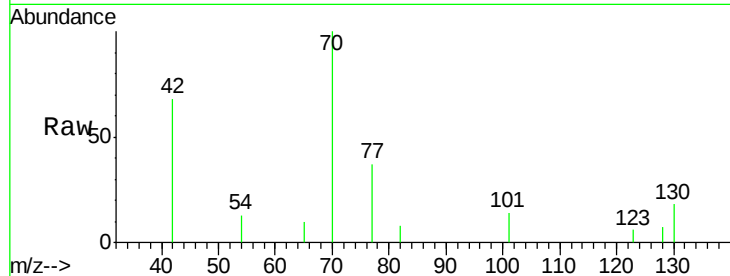
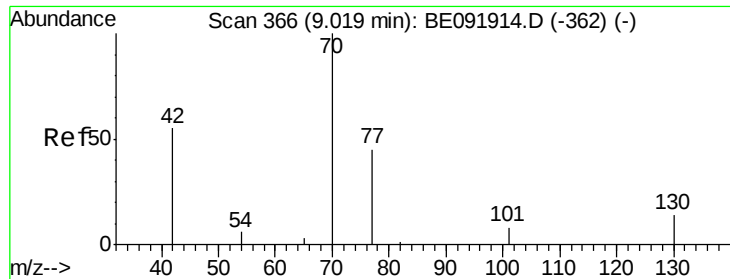


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 0.41 ng

RT: 9.02 min Scan# 366

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

Tgt Ion: 70 Resp: 1925

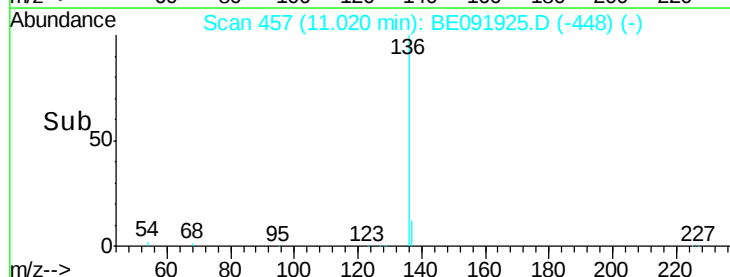
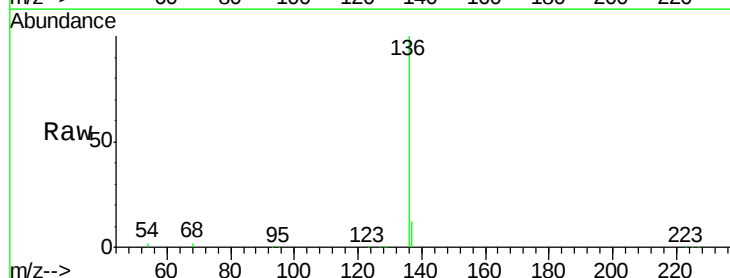
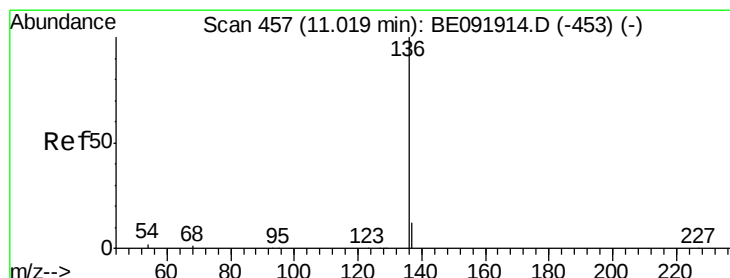
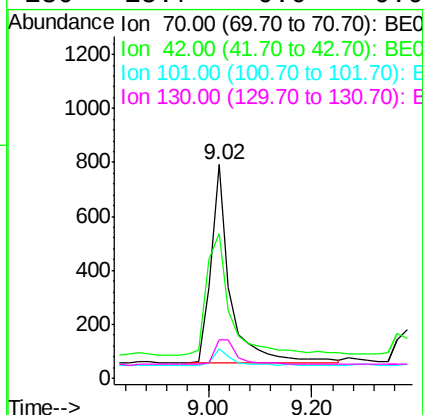
Ion Ratio Lower Upper

70 100

42 74.9 58.4 87.6

101 7.1 6.4 9.6

130 15.7 0.0 0.0#



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 11.02 min Scan# 457

Delta R.T. 0.03 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Tgt Ion: 136 Resp: 104540

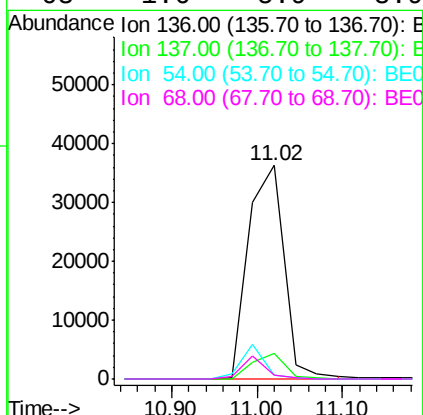
Ion Ratio Lower Upper

136 100

137 12.2 8.3 12.5

54 1.9 8.2 12.4#

68 1.6 5.9 8.9#





#9

Nitrobenzene-d5

Concen: 0.36 ng

RT: 9.38 min Scan# 385

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

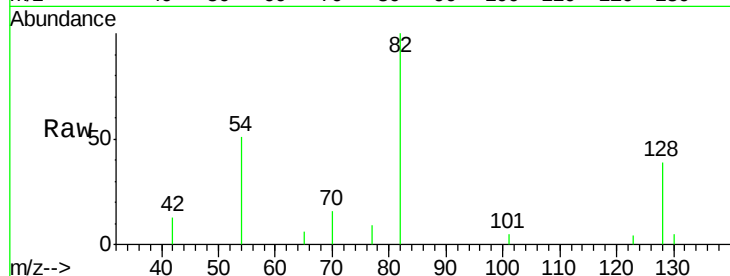
Tgt Ion: 82 Resp: 2628

Ion Ratio Lower Upper

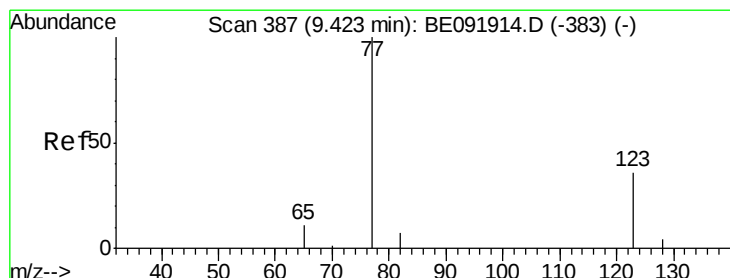
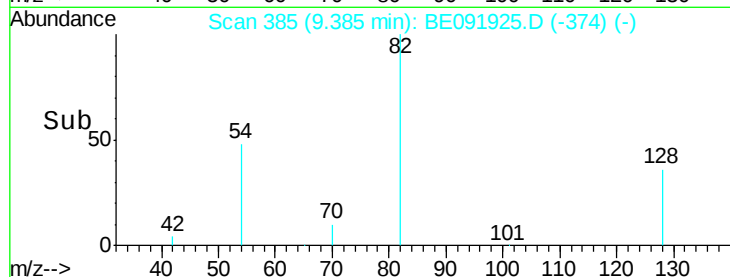
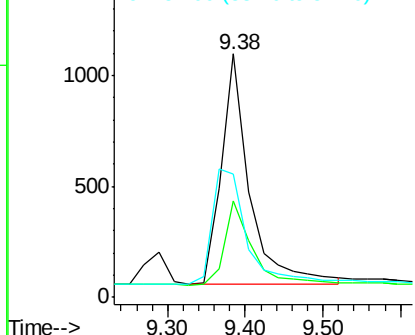
82 100

128 39.4 39.5 59.3#

54 50.8 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: 0.35 ng

RT: 9.42 min Scan# 387

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

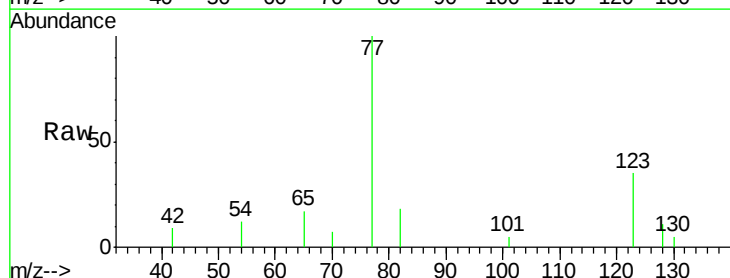
Tgt Ion: 77 Resp: 2481

Ion Ratio Lower Upper

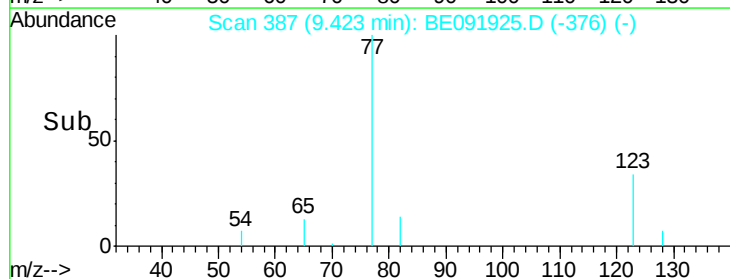
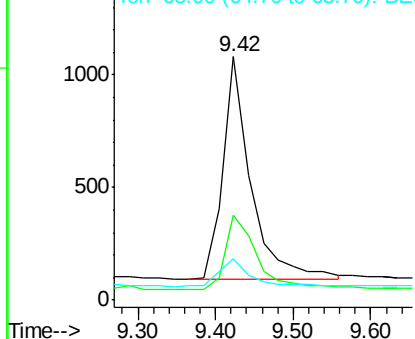
77 100

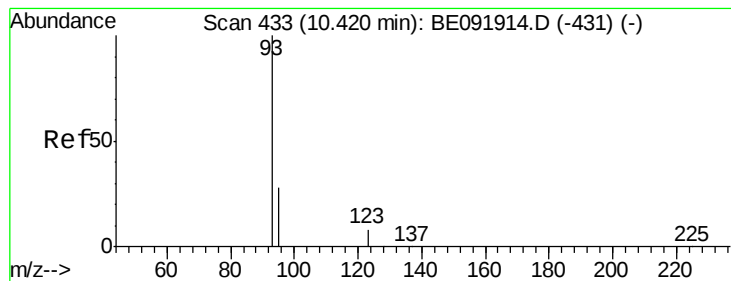
123 37.4 0.0 0.0#

65 14.2 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: 0.35 ng

RT: 10.45 min Scan# 434

Delta R.T. 0.03 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

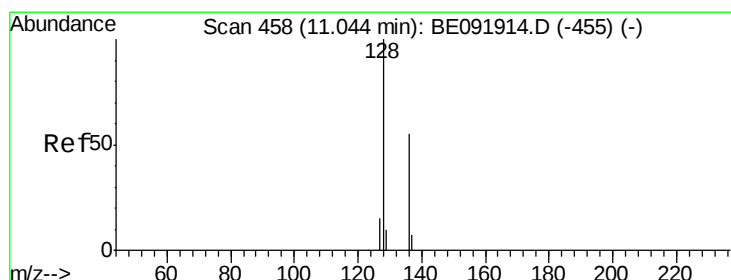
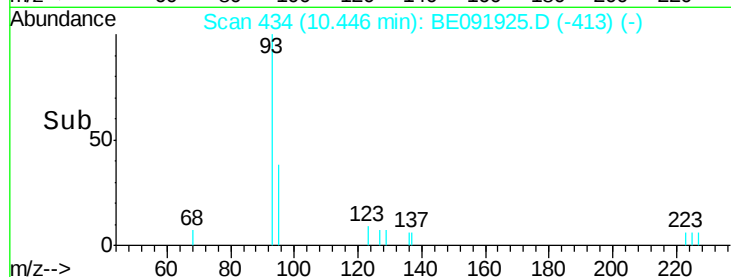
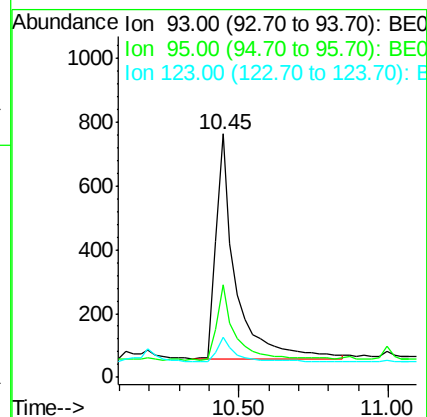
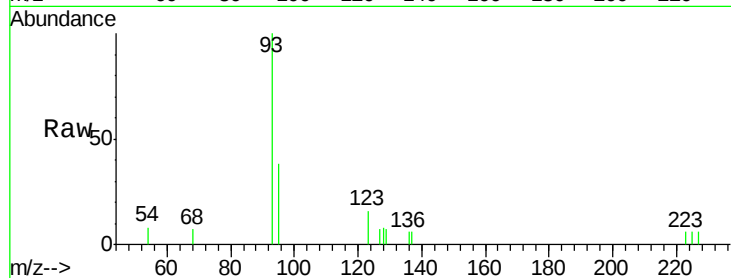
Tgt Ion: 93 Resp: 3211

Ion Ratio Lower Upper

93 100

95 31.5 57.6 86.4#

123 9.4 100.2 150.4#



#12

Naphthalene

Concen: 0.39 ng

RT: 11.04 min Scan# 458

Delta R.T. 0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

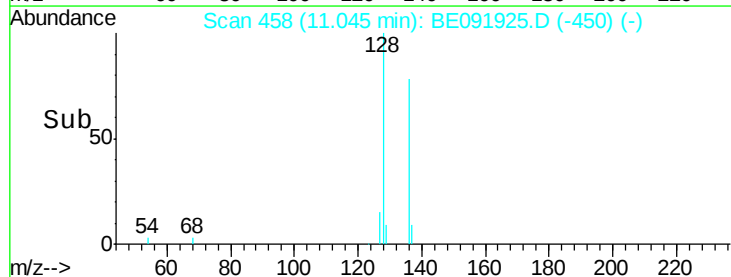
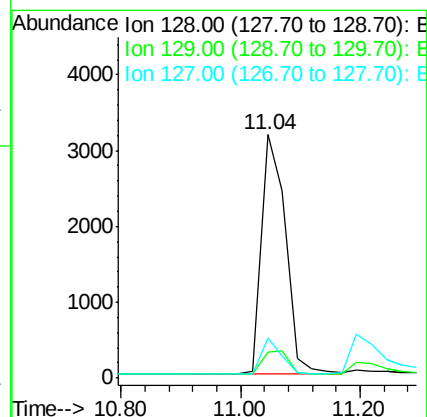
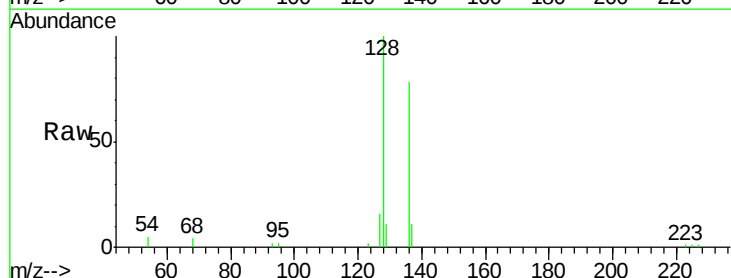
Tgt Ion: 128 Resp: 8906

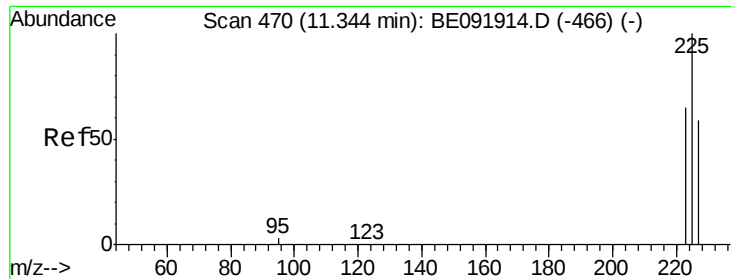
Ion Ratio Lower Upper

128 100

129 10.9 10.4 15.6

127 16.4 10.2 15.2#

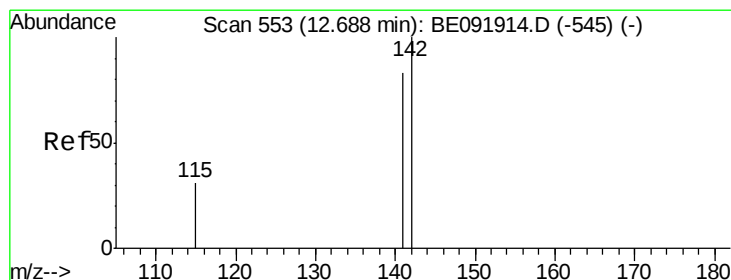
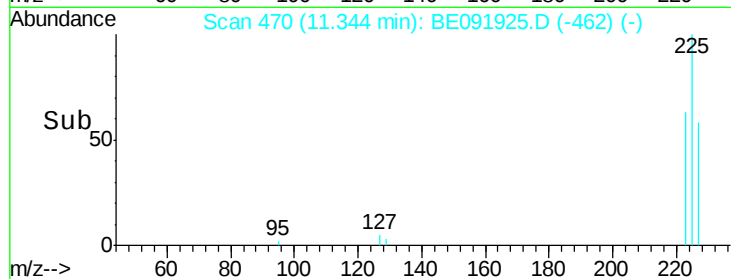
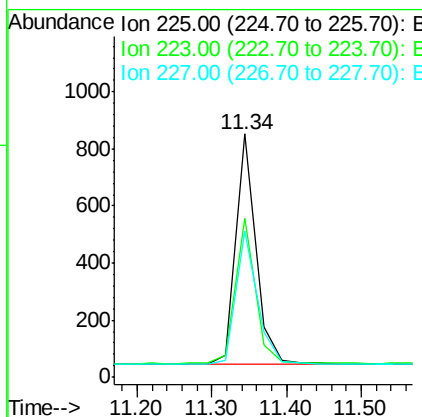
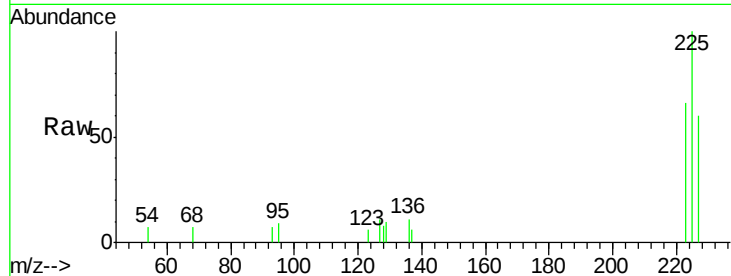




#13
Hexachlorobutadiene
Concen: 0.40 ng
RT: 11.34 min Scan# 470
Delta R.T. 0.00 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

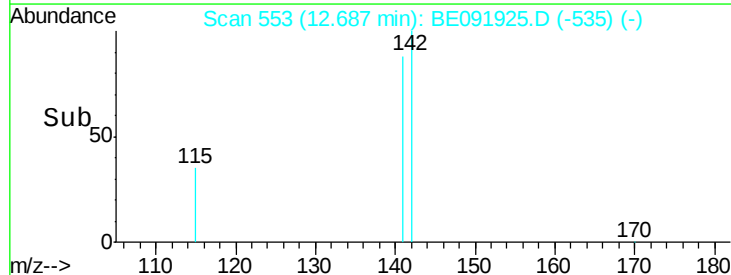
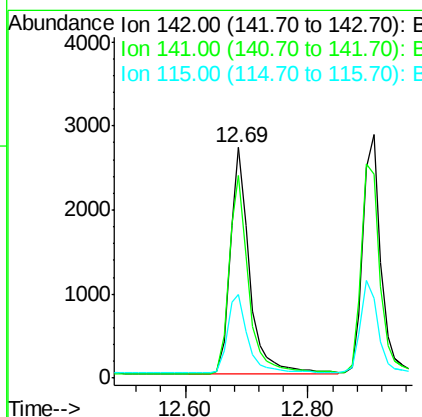
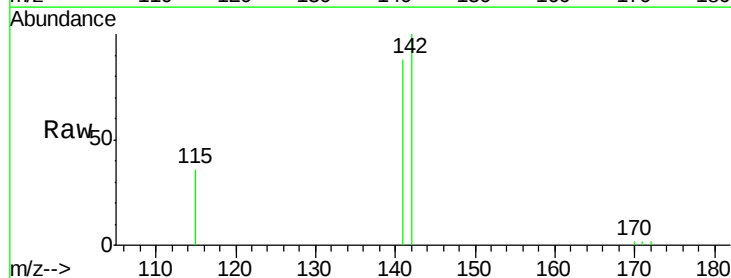
Instrument :
BNA_E
ClientSampled :
PB91250BS

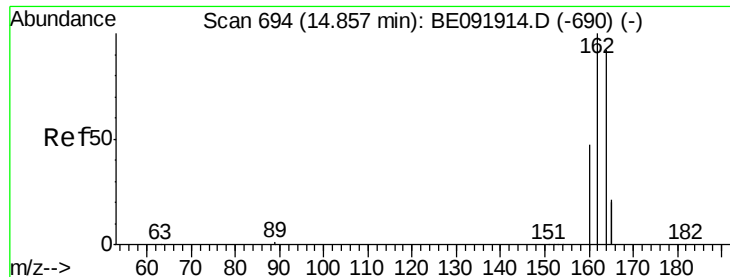
Tgt Ion: 225 Resp: 1487
Ion Ratio Lower Upper
225 100
223 62.3 49.8 74.8
227 60.7 50.6 75.8



#14
2-Methylnaphthalene
Concen: 0.38 ng
RT: 12.69 min Scan# 553
Delta R.T. 0.01 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

Tgt Ion: 142 Resp: 5829
Ion Ratio Lower Upper
142 100
141 87.9 71.9 107.9
115 36.2 29.9 44.9





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.86 min Scan# 694

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

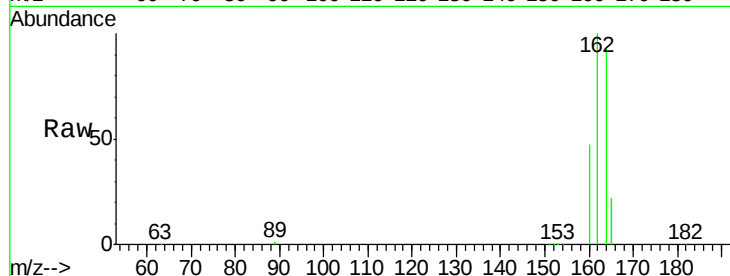
Tgt Ion:164 Resp: 75200

Ion Ratio Lower Upper

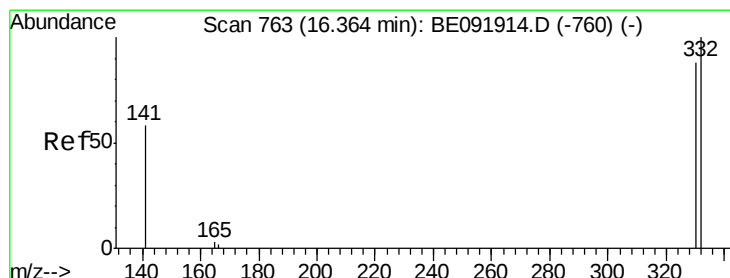
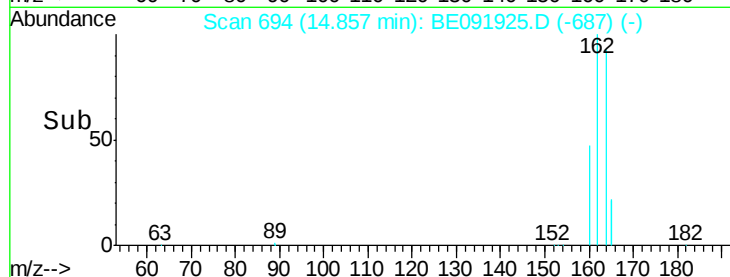
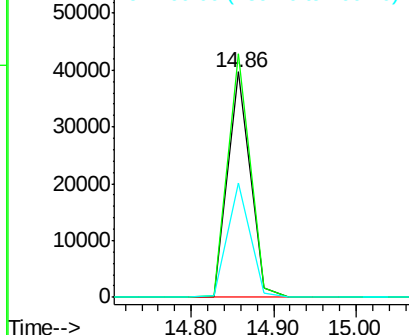
164 100

162 108.0 71.8 107.8#

160 50.9 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: 0.33 ng

RT: 16.36 min Scan# 763

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

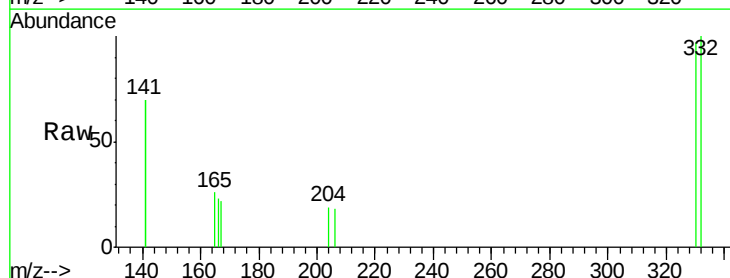
Tgt Ion:330 Resp: 498

Ion Ratio Lower Upper

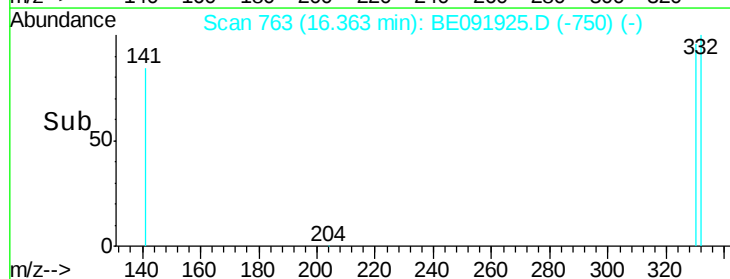
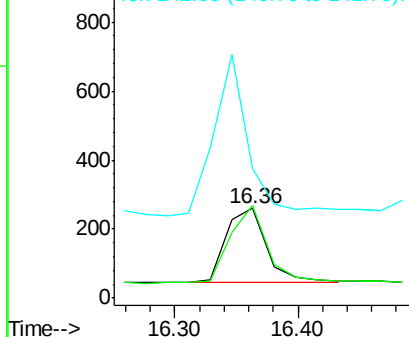
330 100

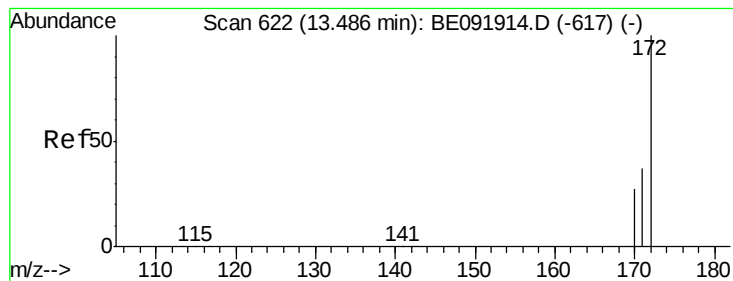
332 94.8 77.0 115.6

141 186.7 138.4 207.6



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

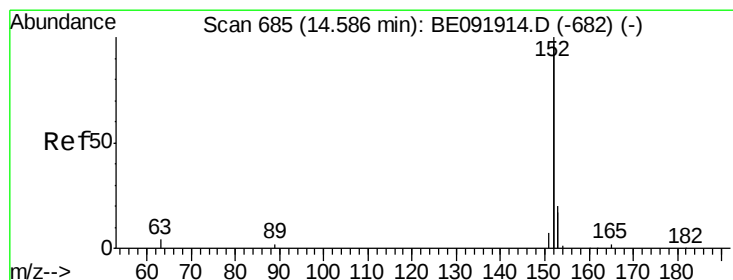
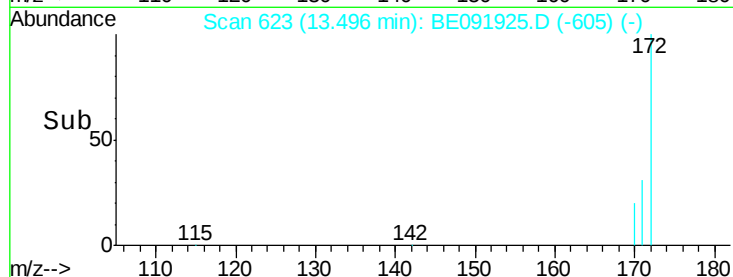
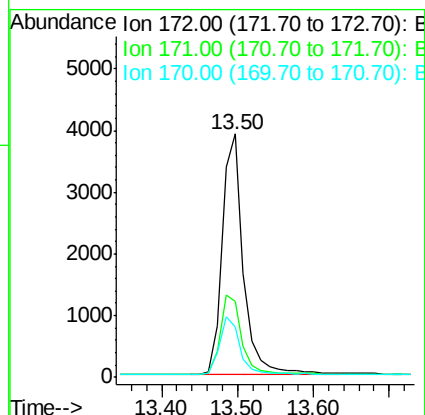
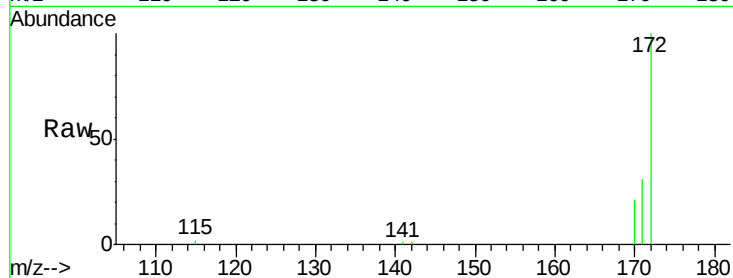




#17
2-Fluorobiphenyl
Concen: 0.40 ng
RT: 13.50 min Scan# 623
Delta R.T. 0.01 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

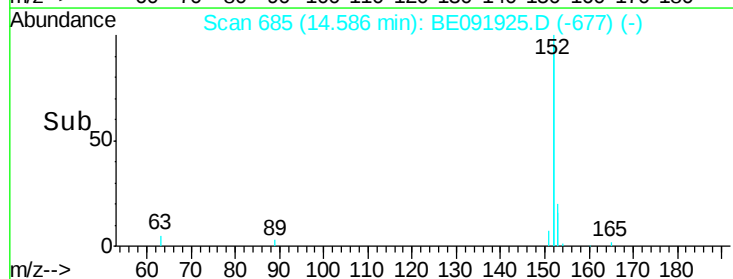
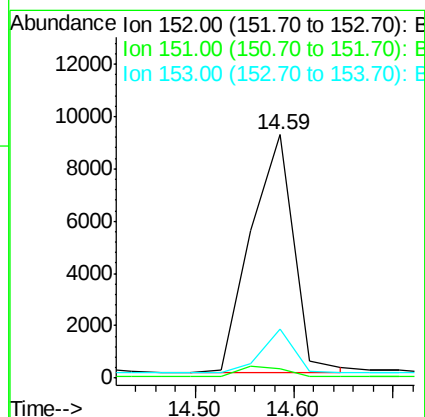
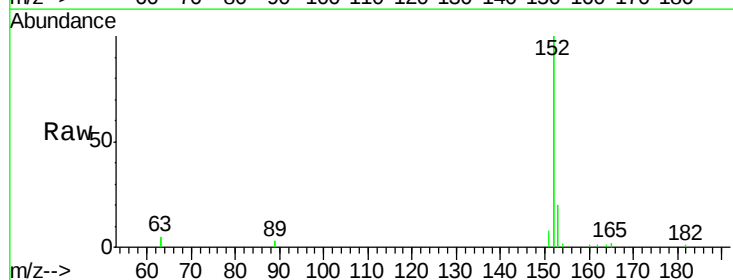
Instrument :
BNA_E
ClientSampleId :
PB91250BS

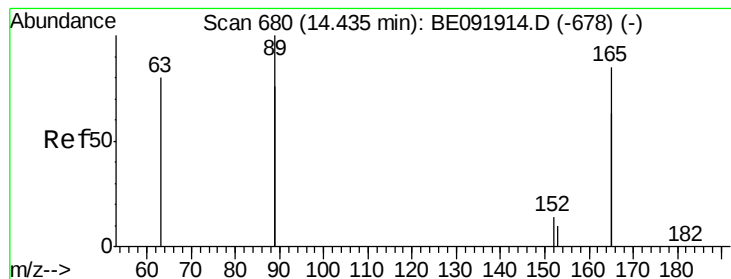
Tgt Ion:172 Resp: 7642
Ion Ratio Lower Upper
172 100
171 31.4 24.3 36.5
170 20.5 14.9 22.3



#18
Acenaphthylene
Concen: 0.36 ng
RT: 14.59 min Scan# 685
Delta R.T. 0.03 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

Tgt Ion:152 Resp: 27507
Ion Ratio Lower Upper
152 100
151 0.0 19.4 29.2#
153 14.1 14.4 21.6#





#19

2,6-Dinitrotoluene

Concen: 0.49 ng

RT: 14.44 min Scan# 680

Delta R.T. 0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

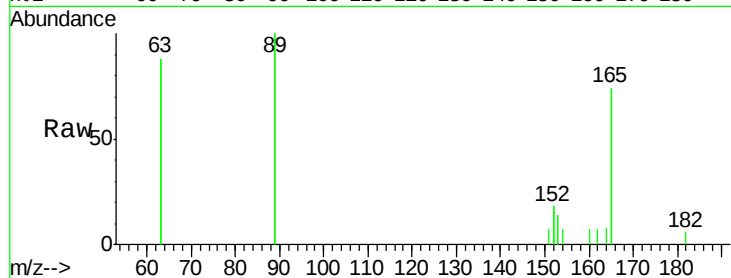
Tgt Ion:165 Resp: 4197

Ion Ratio Lower Upper

165 100

63 103.1 65.9 98.9#

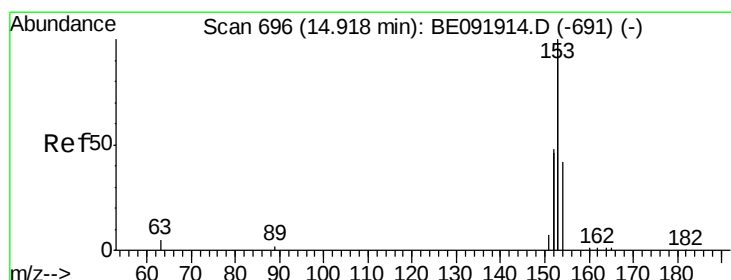
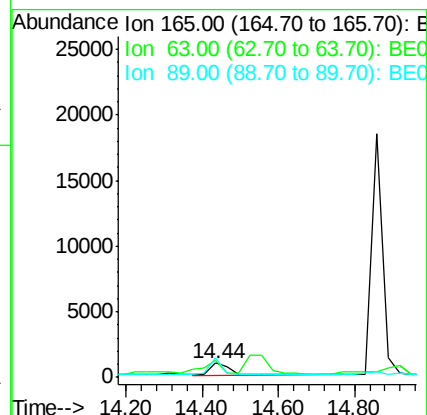
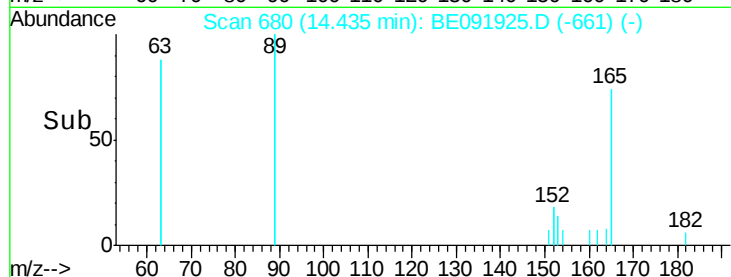
89 279.4 59.1 88.7#



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: 0.37 ng

RT: 14.92 min Scan# 696

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

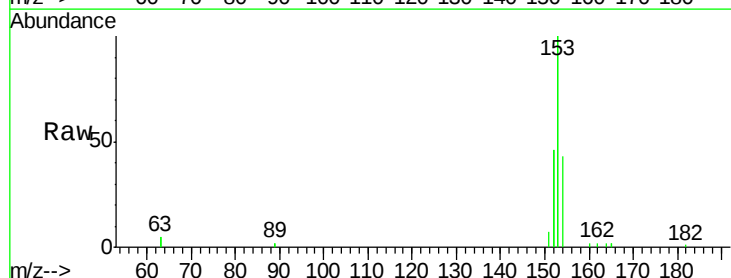
Tgt Ion:154 Resp: 7740

Ion Ratio Lower Upper

154 100

153 443.2 88.1 132.1#

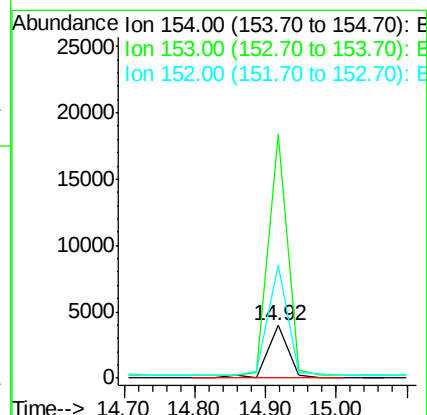
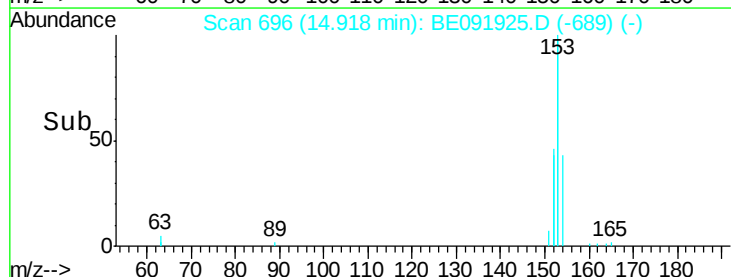
152 205.9 44.2 66.2#

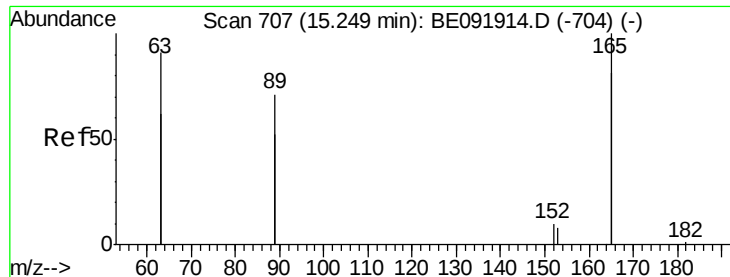


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

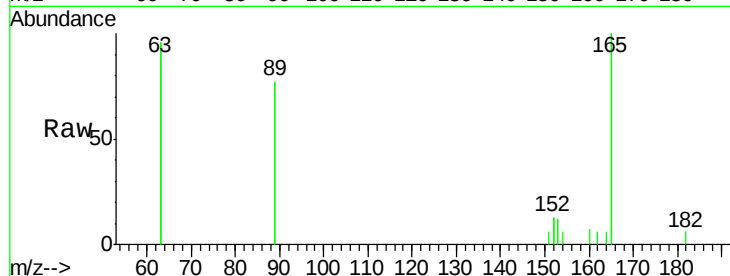




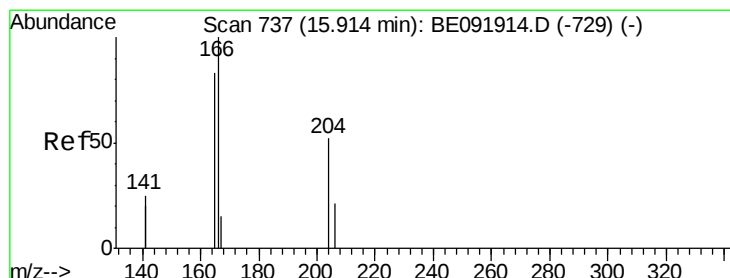
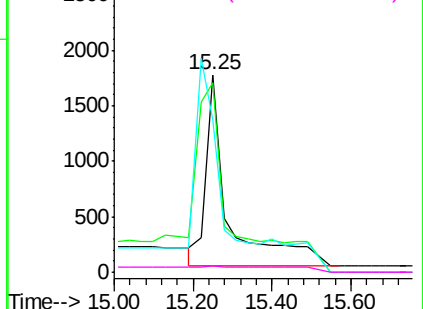
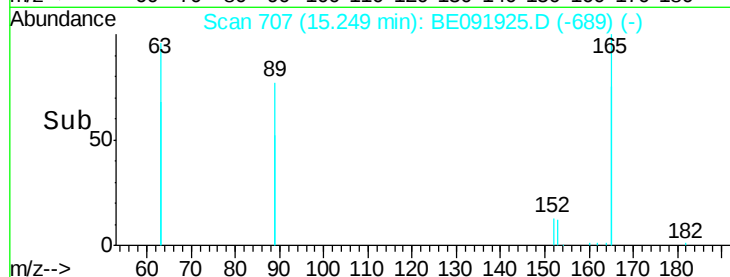
#21
2,4-Dinitrotoluene
Concen: 0.59 ng
RT: 15.25 min Scan# 707
Delta R.T. 0.03 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

Instrument :
BNA_E
ClientSampleId :
PB91250BS

Tgt Ion:165 Resp: 7128
Ion Ratio Lower Upper
165 100
63 158.0 0.0 0.0#
89 0.0 99.8 149.8#
182 0.0 0.0 0.0

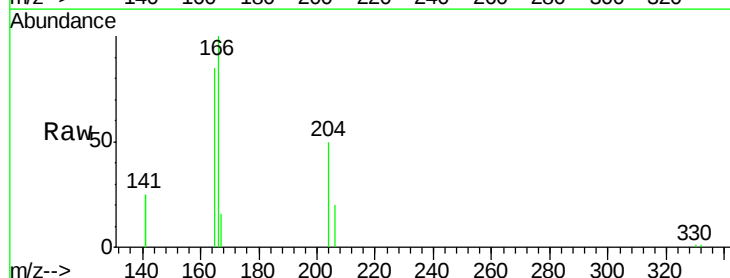


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BE0
Ion 89.00 (88.70 to 89.70): BE0
Ion 182.00 (181.70 to 182.70): E

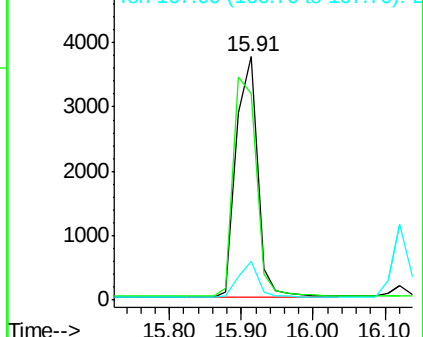
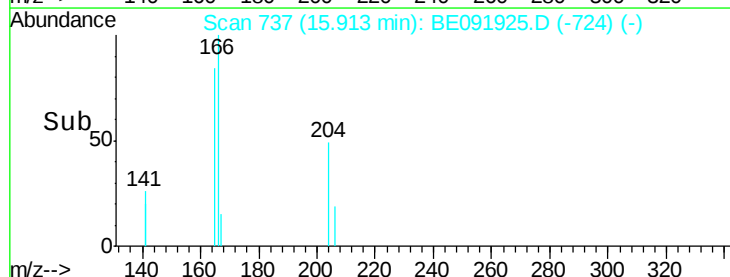


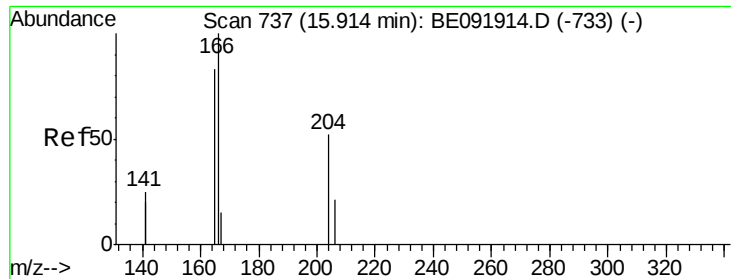
#22
Fluorene
Concen: 0.37 ng
RT: 15.91 min Scan# 737
Delta R.T. 0.02 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

Tgt Ion:166 Resp: 7649
Ion Ratio Lower Upper
166 100
165 98.6 78.6 117.8
167 13.9 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

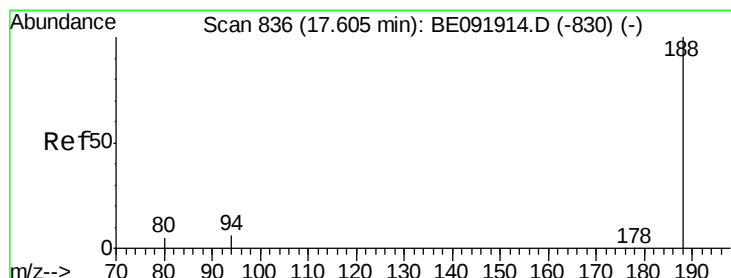
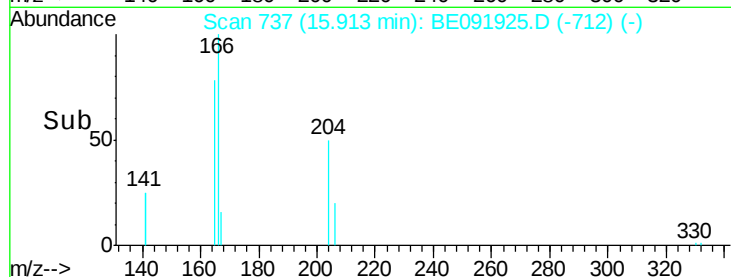
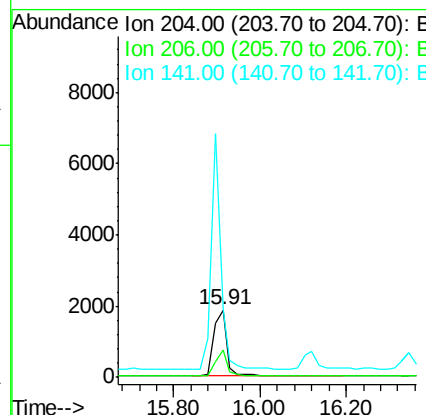
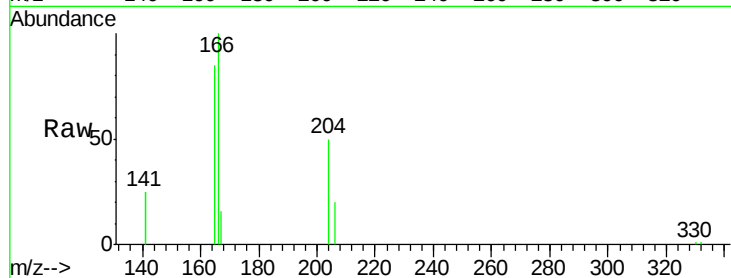




#23
4-Chlorophenyl-phenylether
Concen: 0.38 ng
RT: 15.91 min Scan# 737
Delta R.T. 0.02 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

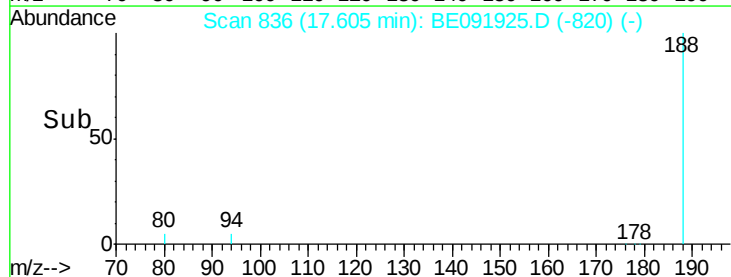
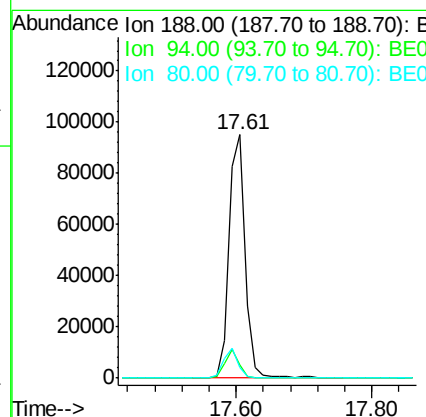
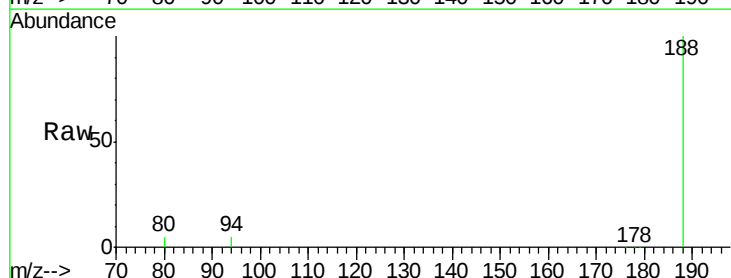
Instrument :
BNA_E
ClientSampleId :
PB91250BS

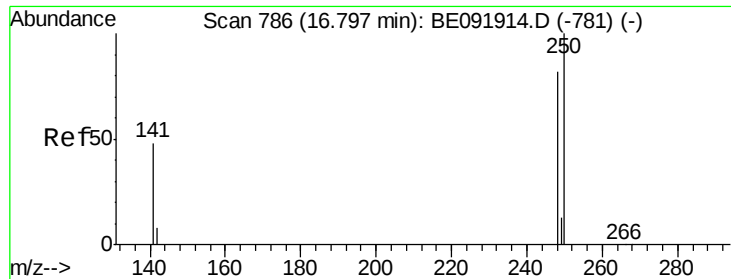
Tgt Ion: 204 Resp: 3877
Ion Ratio Lower Upper
204 100
206 33.5 27.8 41.6
141 261.3 197.6 296.4



#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.61 min Scan# 836
Delta R.T. -0.00 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

Tgt Ion: 188 Resp: 159540
Ion Ratio Lower Upper
188 100
94 5.4 4.1 6.1
80 4.5 3.4 5.2

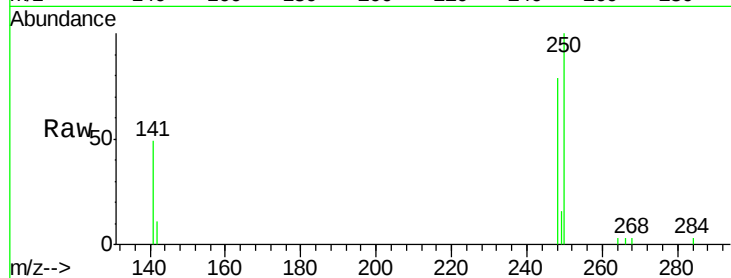




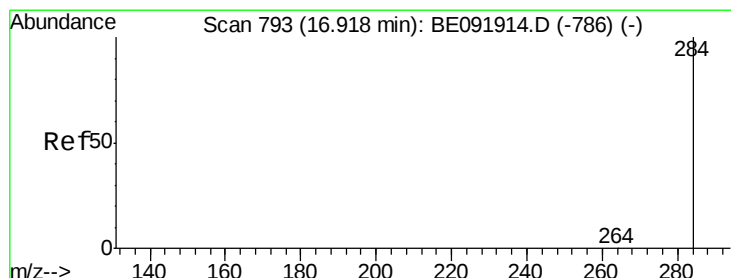
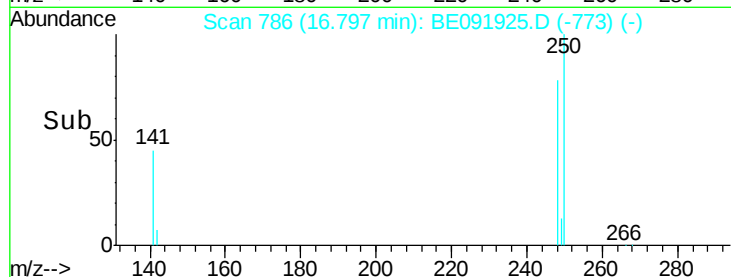
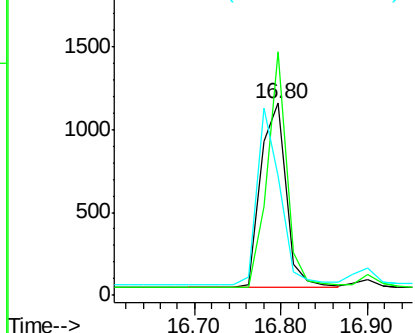
#25
4-Bromophenyl-phenylether
Concen: 0.37 ng
RT: 16.80 min Scan# 786
Delta R.T. 0.02 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

Instrument :
BNA_E
ClientSampleId :
PB91250BS

Tgt Ion:248 Resp: 2307
Ion Ratio Lower Upper
248 100
250 99.3 75.7 113.5
141 86.4 64.6 97.0

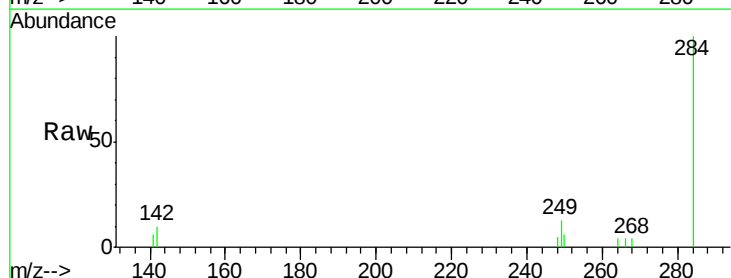


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

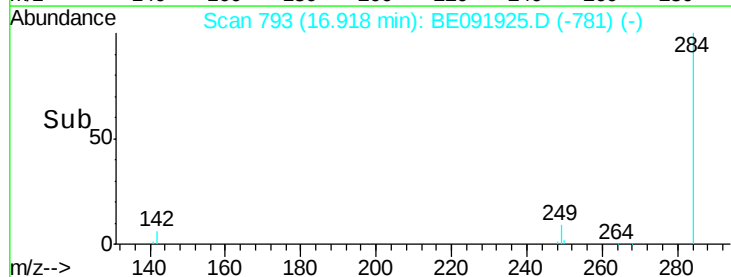
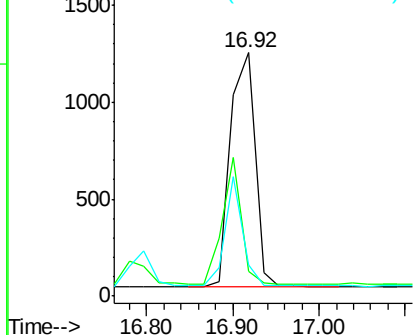


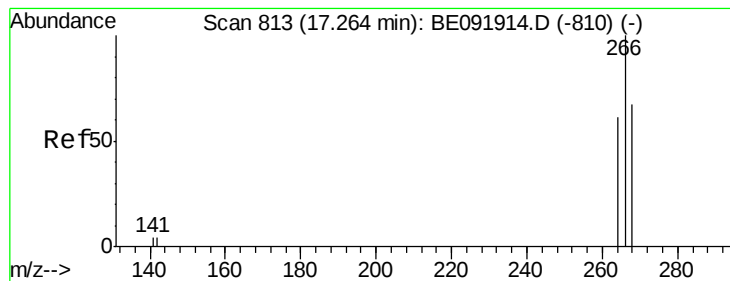
#26
Hexachlorobenzene
Concen: 0.38 ng
RT: 16.92 min Scan# 793
Delta R.T. -0.00 min
Lab File: BE091925.D
Acq: 15 Jun 2016 15:13

Tgt Ion:284 Resp: 2402
Ion Ratio Lower Upper
284 100
142 42.1 31.4 47.2
249 33.8 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: 0.32 ng

RT: 17.26 min Scan# 813

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

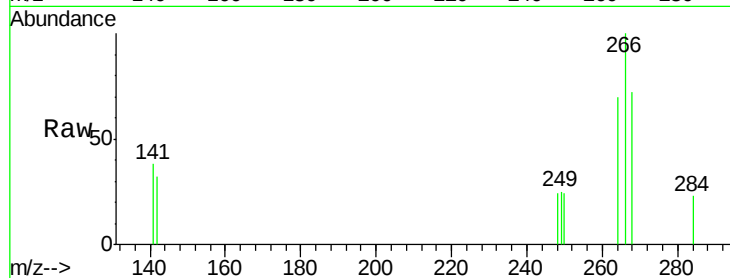
Tgt Ion:266 Resp: 416

Ion Ratio Lower Upper

266 100

268 71.6 60.5 90.7

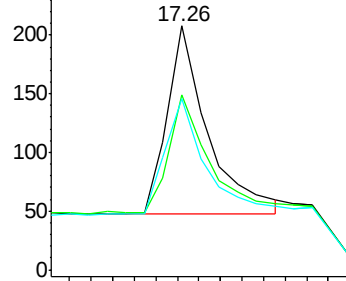
264 70.2 51.0 76.4



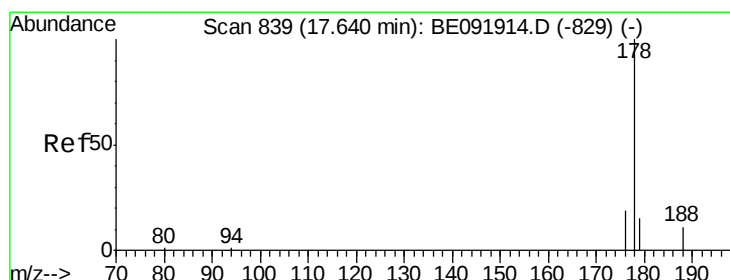
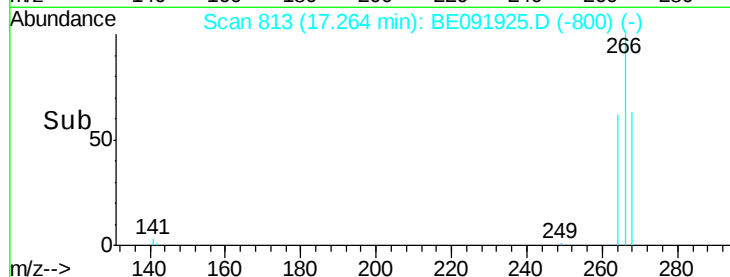
Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



Time-->



#28

Phenanthrene

Concen: 0.38 ng

RT: 17.64 min Scan# 839

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

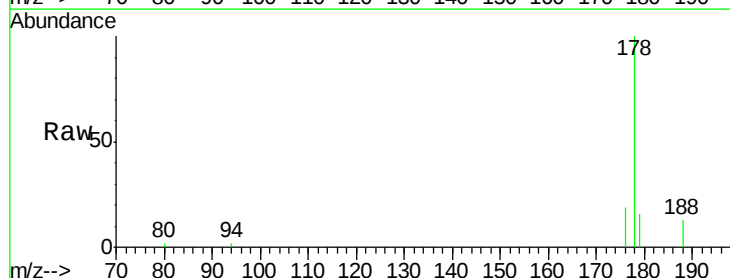
Tgt Ion:178 Resp: 15321

Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

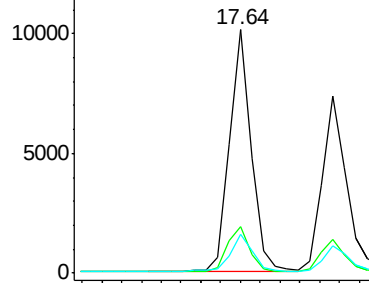
179 16.0 12.9 19.3



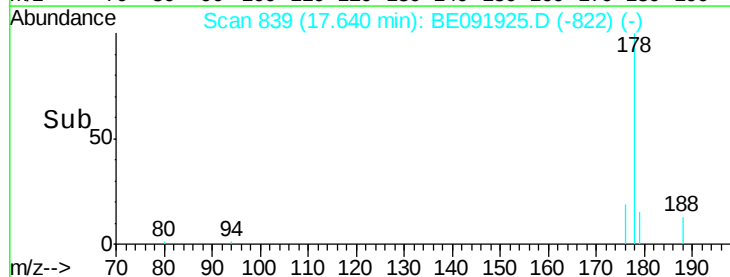
Abundance Ion 178.00 (177.70 to 178.70): E

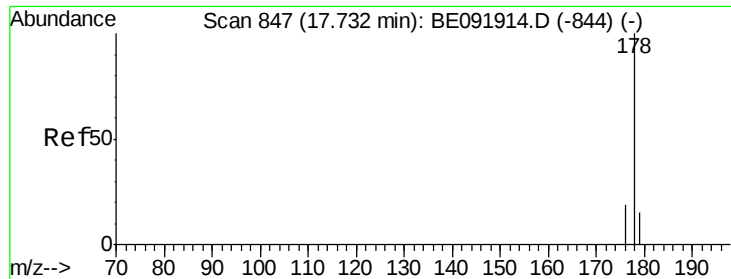
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#29

Anthracene

Concen: 0.36 ng

RT: 17.73 min Scan# 847

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

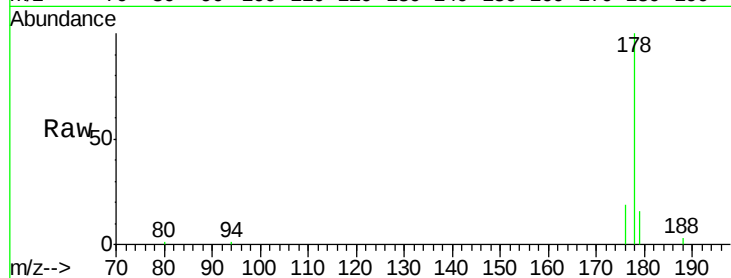
Tgt Ion:178 Resp: 12666

Ion Ratio Lower Upper

178 100

176 18.7 15.1 22.7

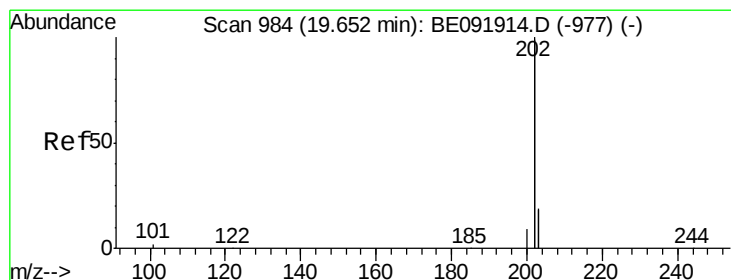
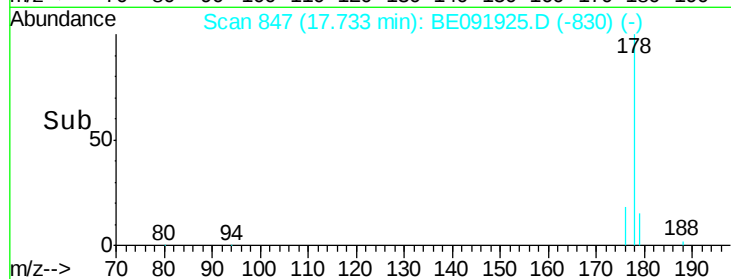
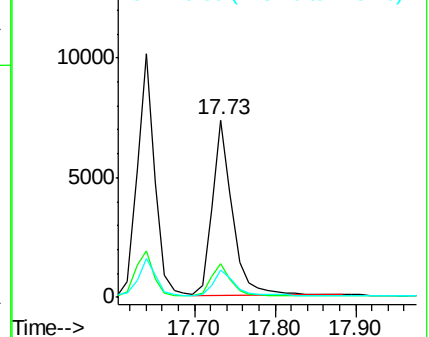
179 15.3 12.1 18.1



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



#30

Fluoranthene

Concen: 0.35 ng

RT: 19.65 min Scan# 984

Delta R.T. 0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

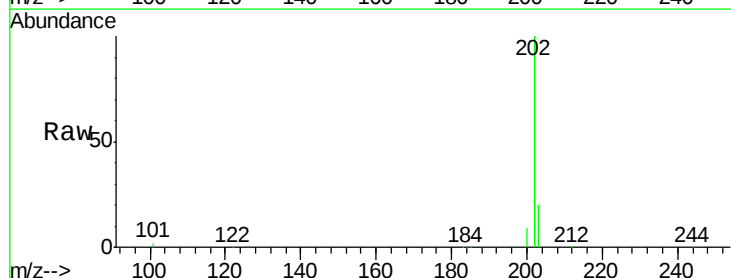
Tgt Ion:202 Resp: 59799

Ion Ratio Lower Upper

202 100

101 0.0 9.4 14.0#

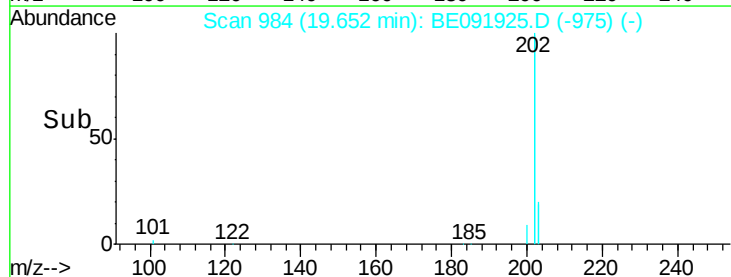
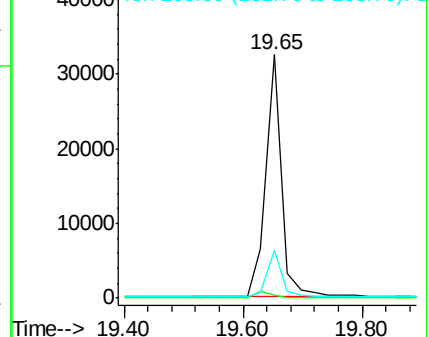
203 18.0 14.3 21.5



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





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.76 min Scan# 1064

Delta R.T. 0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

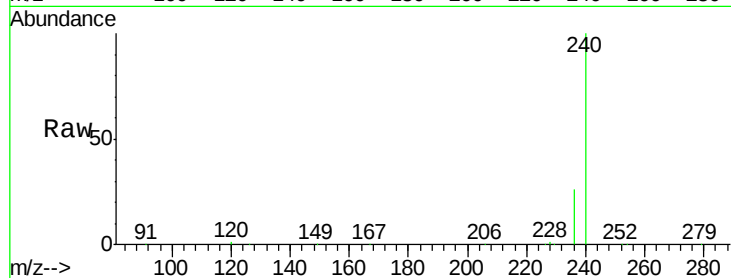
Tgt Ion:240 Resp: 251473

Ion Ratio Lower Upper

240 100

120 1.4 1.2 1.8

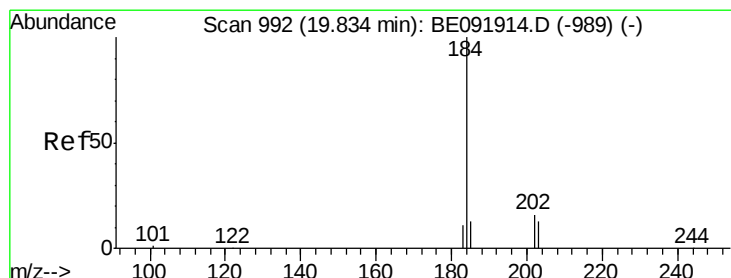
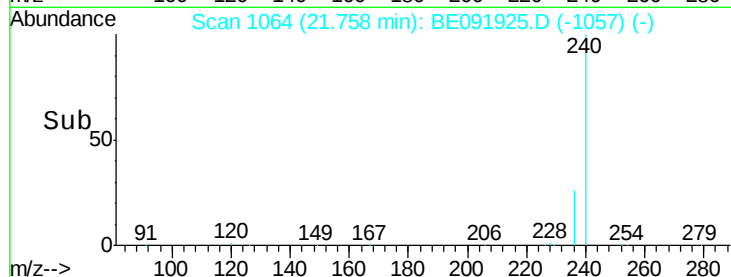
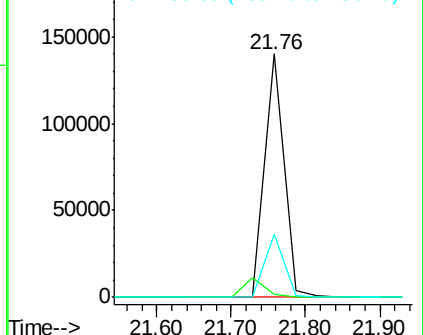
236 26.1 19.8 29.8



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: 0.32 ng

RT: 19.86 min Scan# 993

Delta R.T. 0.02 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

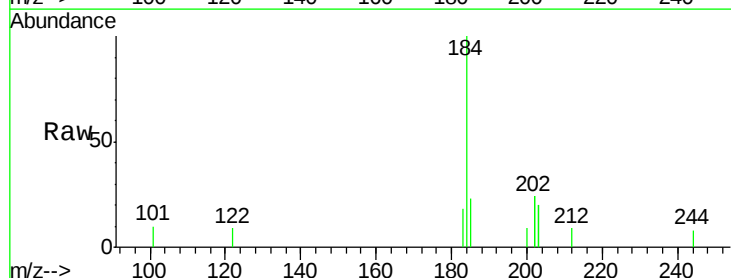
Tgt Ion:184 Resp: 2206

Ion Ratio Lower Upper

184 100

185 23.0 11.4 17.2#

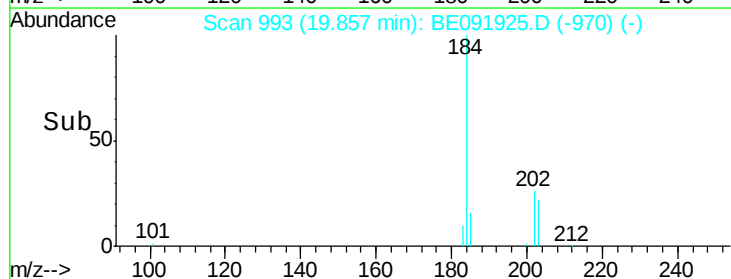
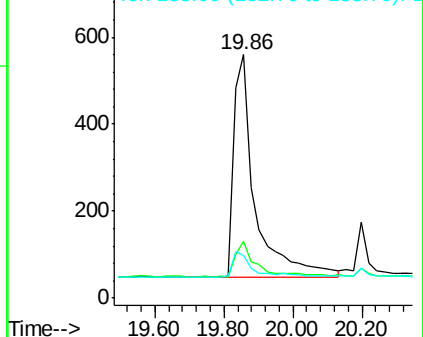
183 17.7 11.8 17.6#

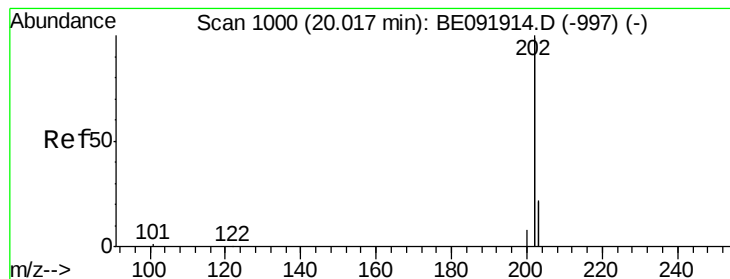


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#33

Pyrene

Concen: 0.36 ng

RT: 20.02 min Scan# 1000

Delta R.T. 0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

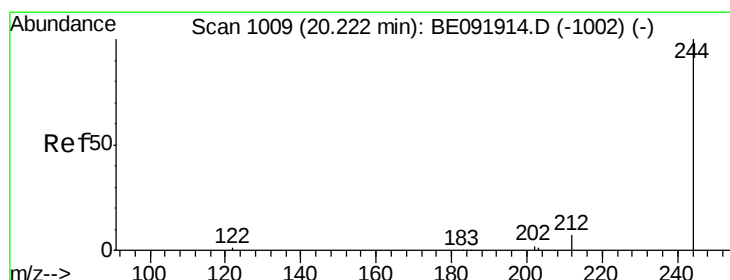
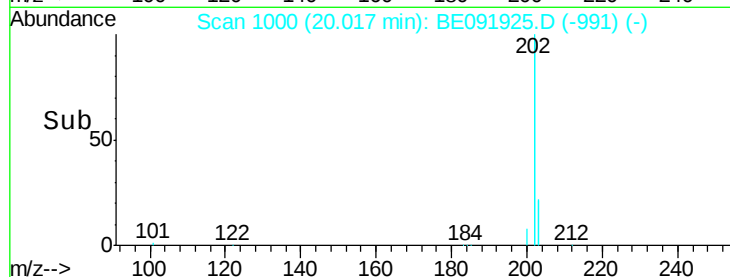
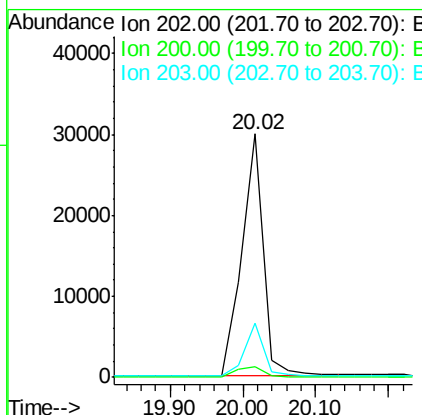
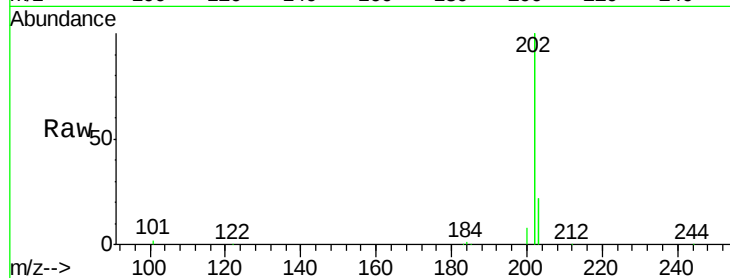
Instrument :

BNA_E

ClientSampleId :

PB91250BS

Tgt Ion:202 Resp: 60750
 Ion Ratio Lower Upper
 202 100
 200 5.1 16.9 25.3#
 203 19.2 14.1 21.1



#34

Terphenyl-d14

Concen: 0.36 ng

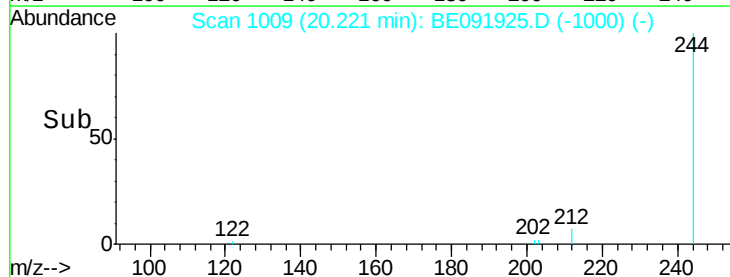
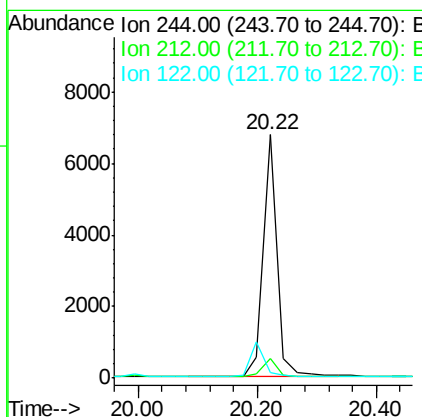
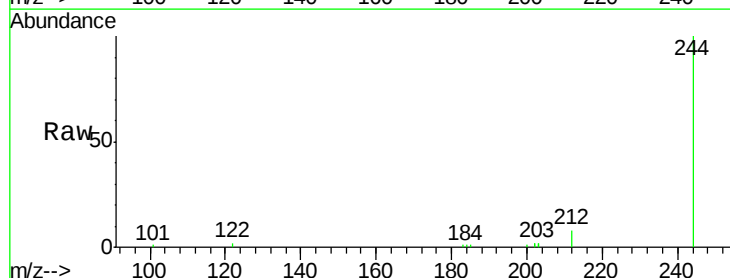
RT: 20.22 min Scan# 1009

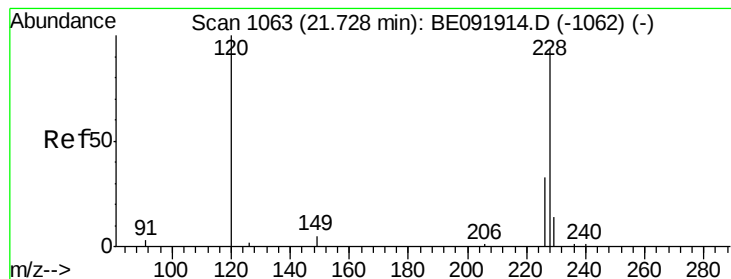
Delta R.T. 0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Tgt Ion:244 Resp: 10937
 Ion Ratio Lower Upper
 244 100
 212 8.1 6.5 9.7
 122 2.2 2.9 4.3#





#35

Benzo(a)anthracene

Concen: 1.08 ng

RT: 21.79 min Scan# 1065

Delta R.T. 0.06 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

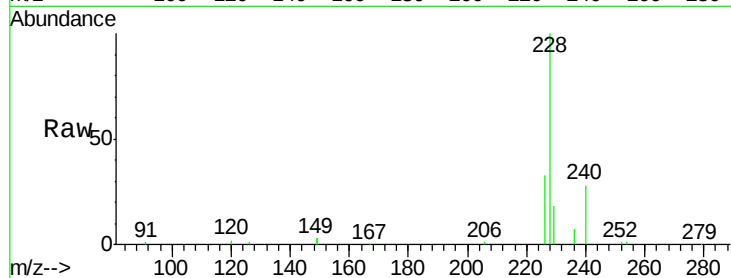
Tgt Ion:228 Resp: 42687

Ion Ratio Lower Upper

228 100

226 32.6 21.0 31.4#

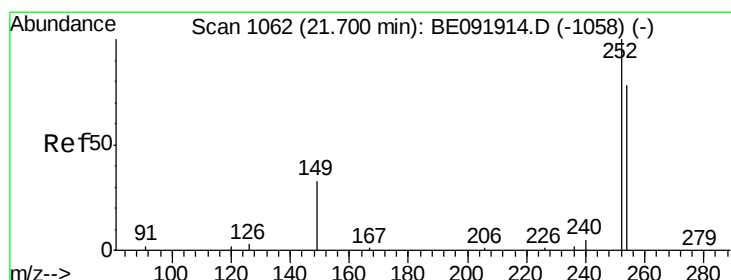
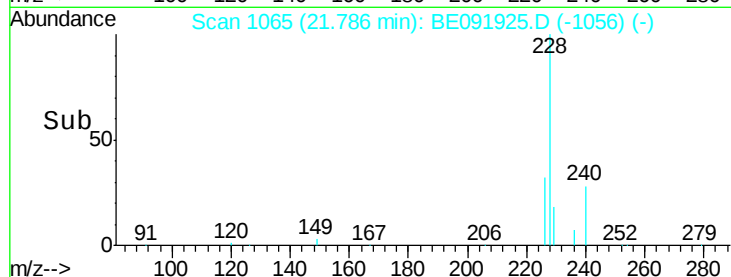
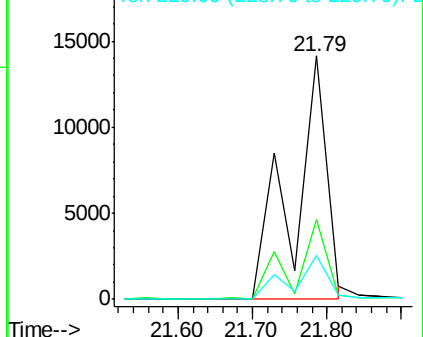
229 18.0 15.8 23.8



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



#36

3,3'-Dichlorobenzidine

Concen: 0.31 ng

RT: 21.70 min Scan# 1062

Delta R.T. 0.03 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

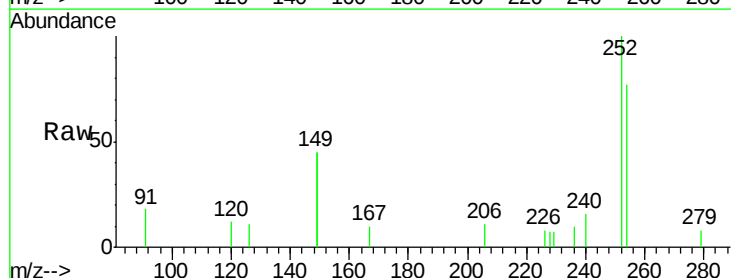
Tgt Ion:252 Resp: 1978

Ion Ratio Lower Upper

252 100

254 76.6 61.5 92.3

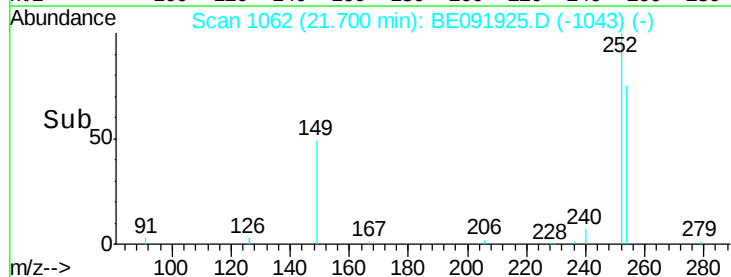
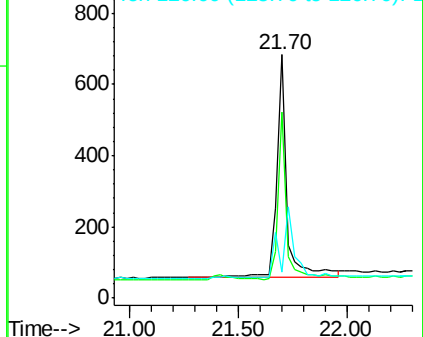
126 10.7 2.5 3.7#

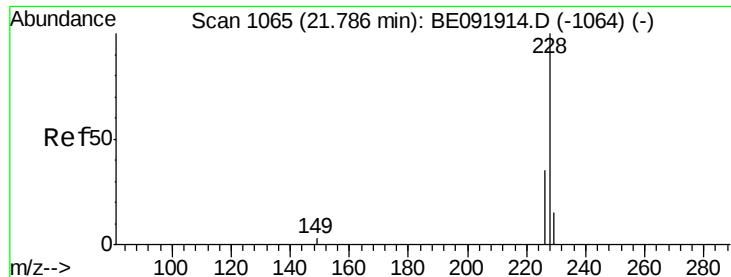


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#37

Chrysene

Concen: 0.75 ng

RT: 21.79 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

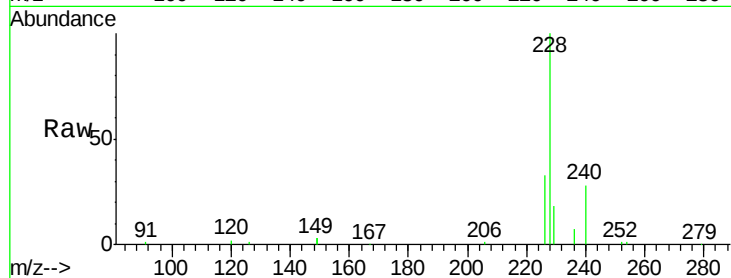
Tgt Ion:228 Resp: 43162

Ion Ratio Lower Upper

228 100

226 32.6 27.0 40.6

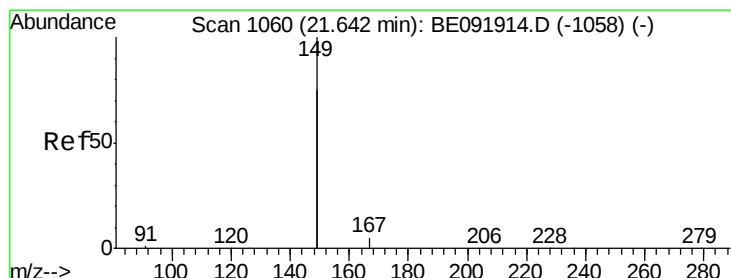
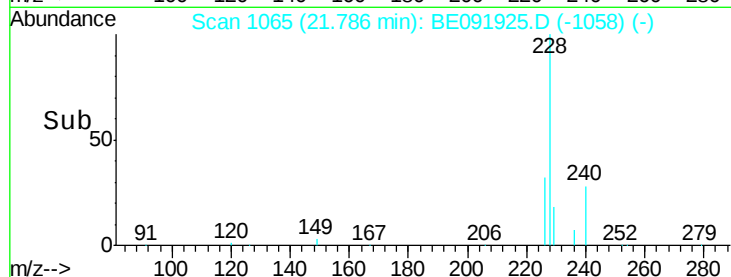
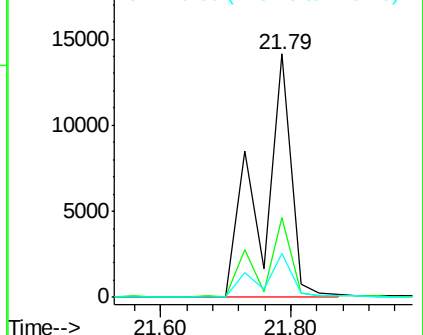
229 18.0 13.8 20.8



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: 0.38 ng

RT: 21.64 min Scan# 1060

Delta R.T. -0.03 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

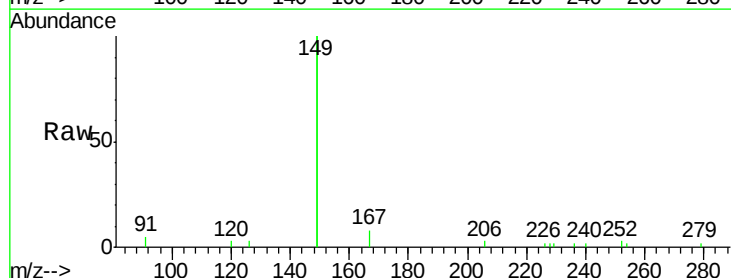
Tgt Ion:149 Resp: 9959

Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

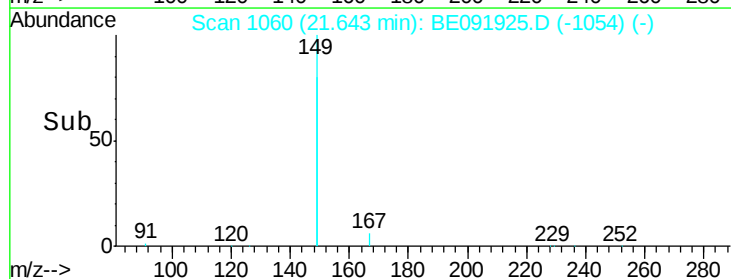
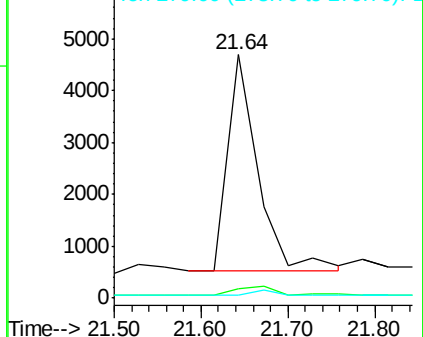
279 0.0 0.0 0.0

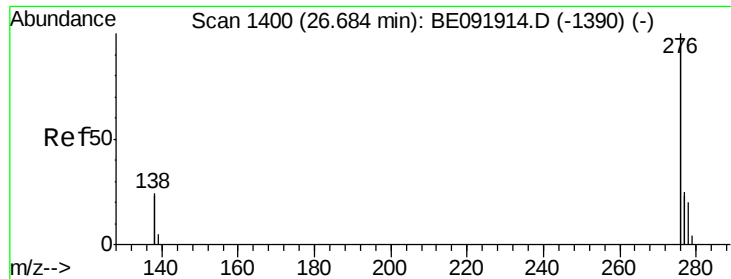


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

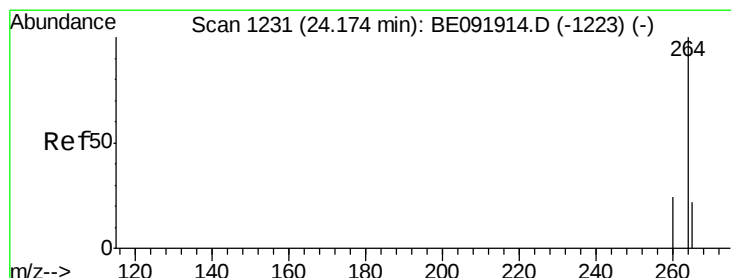
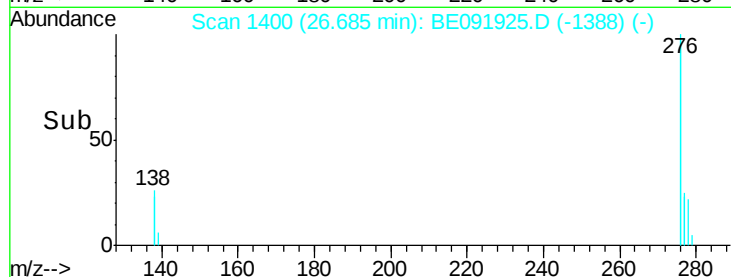
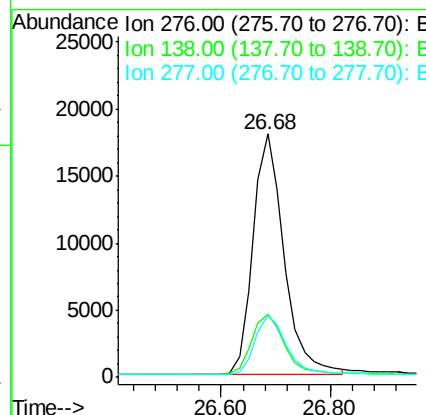
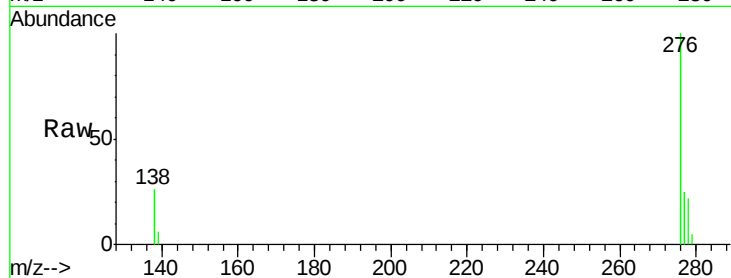




#39
 Indeno(1,2,3-cd)pyrene
 Concen: 0.36 ng
 RT: 26.68 min Scan# 1400
 Delta R.T. -0.00 min
 Lab File: BE091925.D
 Acq: 15 Jun 2016 15:13

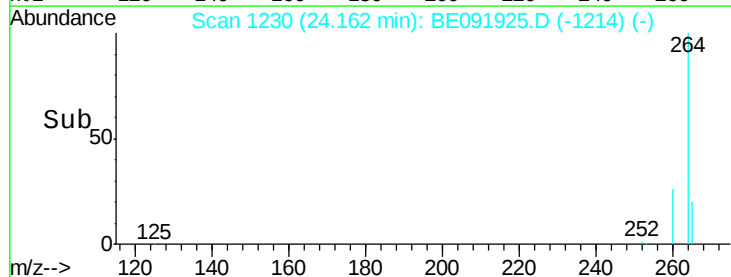
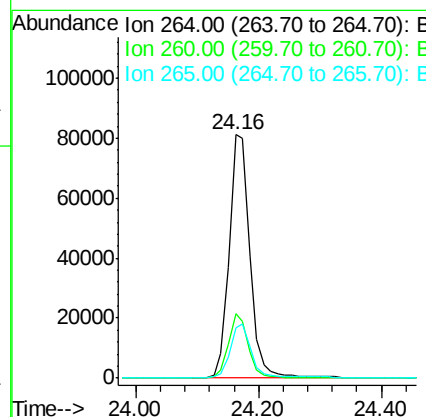
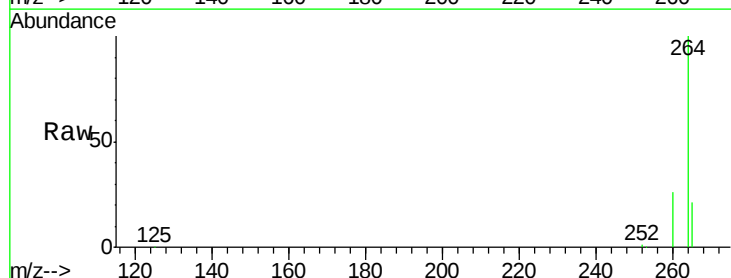
Instrument :
 BNA_E
 ClientSampleId :
 PB91250BS

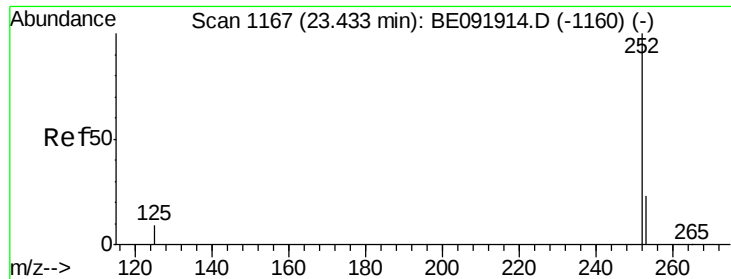
Tgt Ion: 276 Resp: 70797
 Ion Ratio Lower Upper
 276 100
 138 26.5 19.7 29.5
 277 24.8 20.1 30.1



#40
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.16 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: BE091925.D
 Acq: 15 Jun 2016 15:13

Tgt Ion: 264 Resp: 189869
 Ion Ratio Lower Upper
 264 100
 260 26.2 20.3 30.5
 265 20.7 17.6 26.4





#41

Benzo(b)fluoranthene

Concen: 0.38 ng

RT: 23.43 min Scan# 1167

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

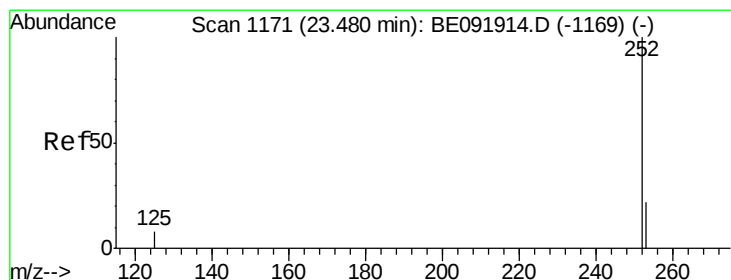
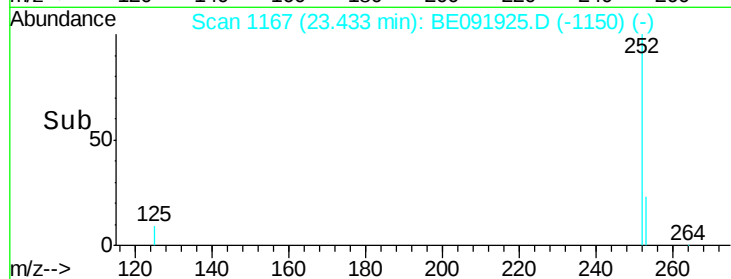
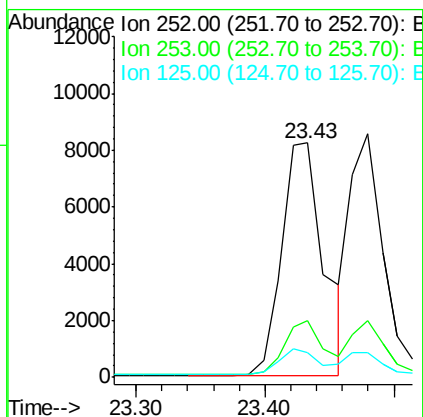
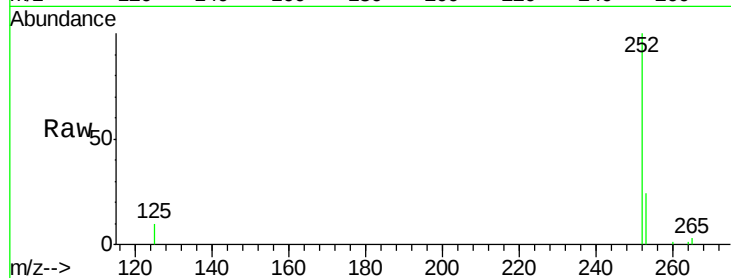
Tgt Ion:252 Resp: 18669

Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.6

125 10.3 9.4 14.2



#42

Benzo(k)fluoranthene

Concen: 0.35 ng

RT: 23.48 min Scan# 1171

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

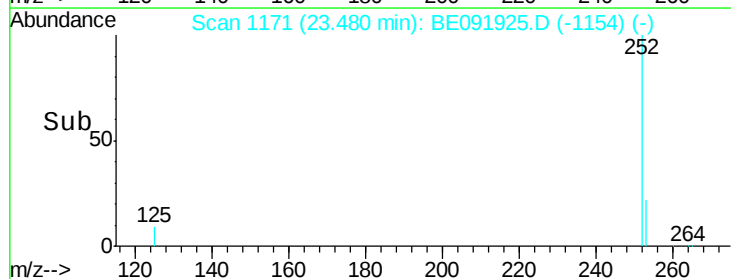
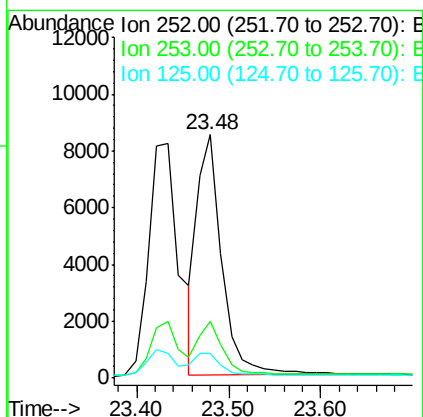
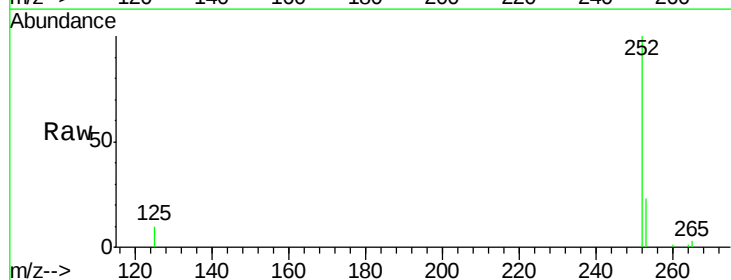
Tgt Ion:252 Resp: 15629

Ion Ratio Lower Upper

252 100

253 23.5 19.4 29.2

125 10.3 8.3 12.5





#43

Benzo(a)pyrene

Concen: 0.35 ng

RT: 24.06 min Scan# 1221

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS

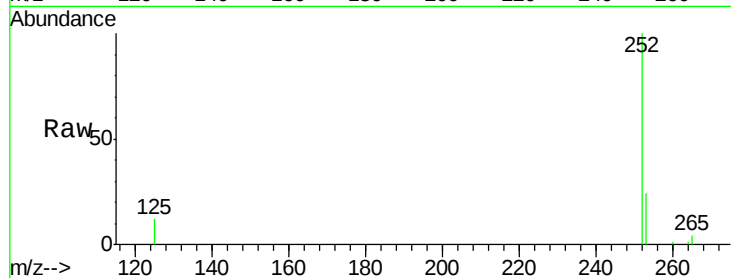
Tgt Ion: 252 Resp: 15005

Ion Ratio Lower Upper

252 100

253 23.6 18.9 28.3

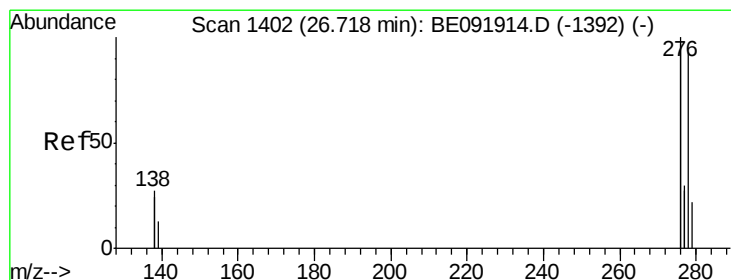
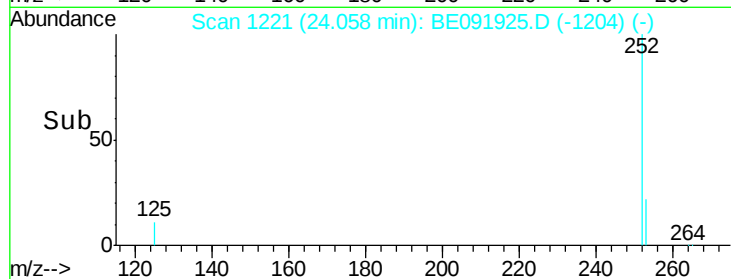
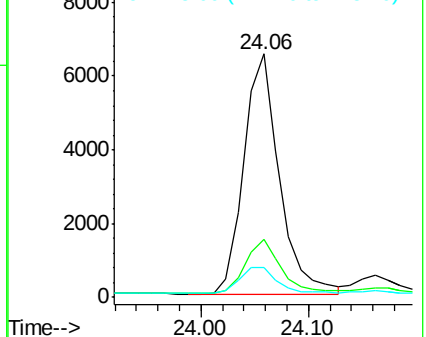
125 12.4 10.5 15.7



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: 0.35 ng

RT: 26.72 min Scan# 1402

Delta R.T. -0.00 min

Lab File: BE091925.D

Acq: 15 Jun 2016 15:13

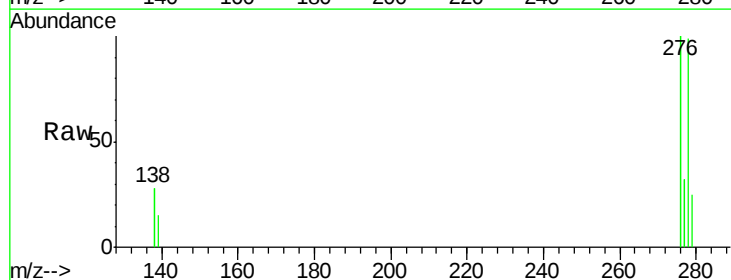
Tgt Ion: 278 Resp: 14461

Ion Ratio Lower Upper

278 100

139 14.9 12.6 18.8

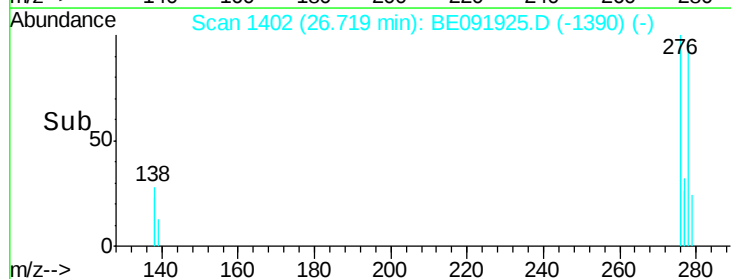
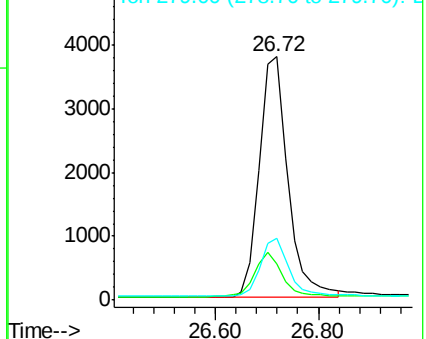
279 25.6 20.0 30.0

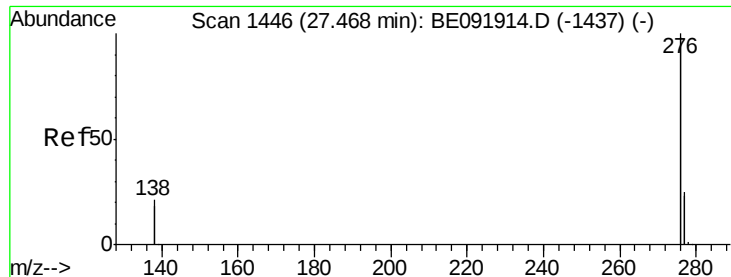


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#45

Benzo(g,h,i)perylene

Concen: 0.36 ng

RT: 27.45 min Scan# 1445

Delta R.T. -0.02 min

Lab File: BE091925.D

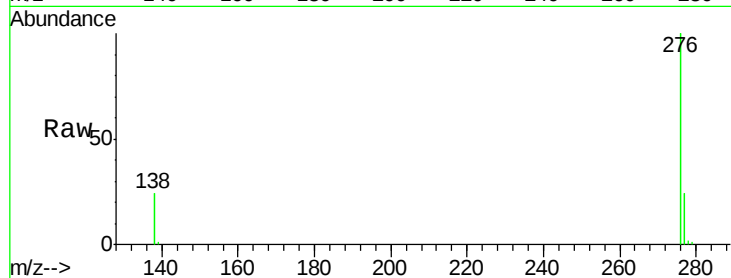
Acq: 15 Jun 2016 15:13

Instrument :

BNA_E

ClientSampleId :

PB91250BS



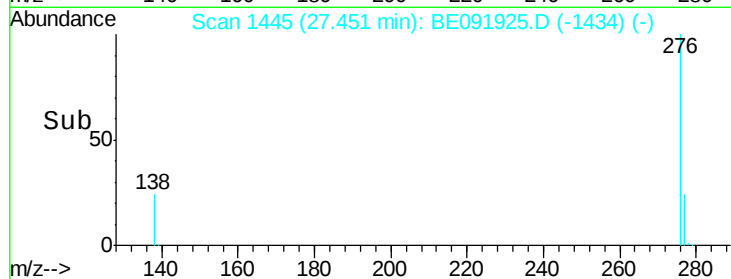
Tgt Ion: 276 Resp: 61769

Ion Ratio Lower Upper

276 100

277 23.6 19.5 29.3

138 24.1 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

