

Data Path : Z:\HPCHEM1\BNA E\DATA\BE060716\
 Data File : BE091889.D
 Acq On : 7 Jun 2016 23:28
 Operator : UM/SJ
 Sample : PB91035BSD
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Jun 08 07:17:50 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 07 17:14:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	25734	5.00	ng	0.00
8) Naphthalene-d8	10.55	136	109457	5.00	ng	0.00
15) Acenaphthene-d10	14.38	164	55465	5.00	ng	0.00
24) Phenanthrene-d10	17.13	188	147465	5.00	ng	0.00
31) Chrysene-d12	21.30	240	132466	5.00	ng	0.00
40) Perylene-d12	23.73	264	165818	5.00	ng	0.02

System Monitoring Compounds						
4) 2-Fluorophenol	5.37	112	38176	6.96	ng	0.00
5) Phenol-d6	6.94	99	48805	7.18	ng	-0.02
9) Nitrobenzene-d5	8.91	82	28755	3.50	ng	-0.02
16) 2,4,6-Tribromophenol	15.87	330	10805	6.84	ng	-0.02
17) 2-Fluorobiphenyl	13.01	172	59381	3.53	ng	0.00
34) Terphenyl-d14	19.74	244	74801	3.95	ng	0.00

Target Compounds						Qvalue
2) 1,4-Dioxane	3.31	88	9673	2.83	ng	# 79
3) n-Nitrosodimethylamine	3.61	42	13659	3.17	ng	# 94
6) bis(2-Chloroethyl)ether	7.20	93	23680	3.22	ng	# 98
7) n-Nitroso-di-n-propylamine	8.54	70	16999	2.92	ng	# 93
10) Nitrobenzene	8.96	77	24997	3.34	ng	# 66
11) bis(2-Chloroethoxy)methane	9.96	93	35391	3.19	ng	# 40
12) Naphthalene	10.59	128	74646	3.16	ng	# 96
13) Hexachlorobutadiene	10.88	225	11676	3.32	ng	# 99
14) 2-Methylnaphthalene	12.20	142	49949	3.28	ng	# 93
18) Acenaphthylene	14.10	152	80108	3.19	ng	# 91
19) 2,6-Dinitrotoluene	13.96	165	11089	2.99	ng	# 98
20) Acenaphthene	14.44	154	50317	3.28	ng	# 96
21) 2,4-Dinitrotoluene	14.76	165	12476	2.96	ng	# 1
22) Fluorene	15.42	166	57535	3.07	ng	# 99
23) 4-Chlorophenyl-phenylether	15.42	204	28245	3.07	ng	# 98
25) 4-Bromophenyl-phenylether	16.31	248	16080	3.04	ng	# 96
26) Hexachlorobenzene	16.44	284	16665	3.07	ng	# 99
27) Pentachlorophenol	16.78	266	14966	5.70	ng	# 92
28) Phenanthrene	17.17	178	99192	2.90	ng	# 99
29) Anthracene	17.26	178	90535	2.98	ng	# 99
30) Fluoranthene	19.17	202	104051	2.82	ng	# 99
32) Benzidine	19.38	184	7091	0.75	ng	# 94
33) Pyrene	19.53	202	108903	3.26	ng	# 99
35) Benzo(a)anthracene	21.27	228	1061931	6.56	ng	# 91
36) 3,3'-Dichlorobenzidine	21.21	252	24226	2.31	ng	# 78
37) Chrysene	21.27	228	1070147	7.92	ng	# 80
38) Bis(2-ethylhexyl)phthalate	21.18	149	68974	2.88	ng	# 100
39) Indeno(1,2,3-cd)pyrene	26.29	276	165653	Below Cal		# 75
41) Benzo(b)fluoranthene	22.98	252	134839	3.33	ng	# 98
42) Benzo(k)fluoranthene	23.03	252	140814	3.35	ng	# 96
43) Benzo(a)pyrene	23.61	252	128920	3.39	ng	# 95
44) Dibenzo(a,h)anthracene	26.31	278	138807	3.92	ng	# 94
45) Benzo(a,h,i)perylene	27.07	276	144481	3.89	ng	# 94

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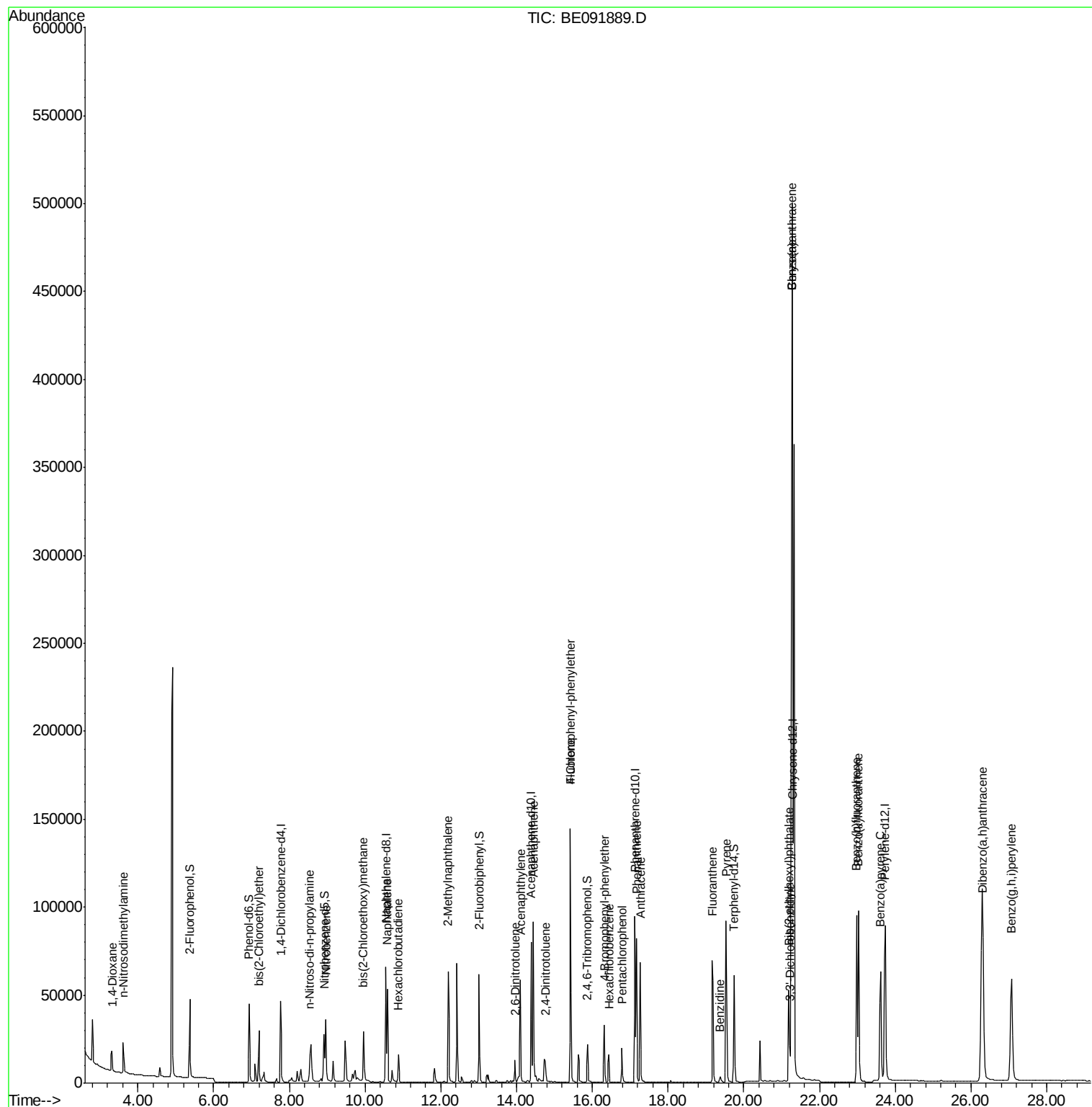
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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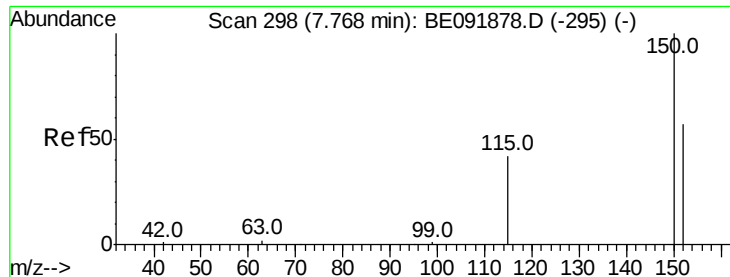
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

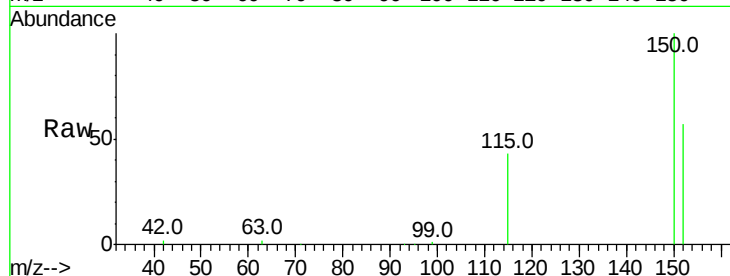
Tot Ion:152 Resp: 25734

Ion Ratio Lower Upper

152 100

150 174.8 123.9 185.9

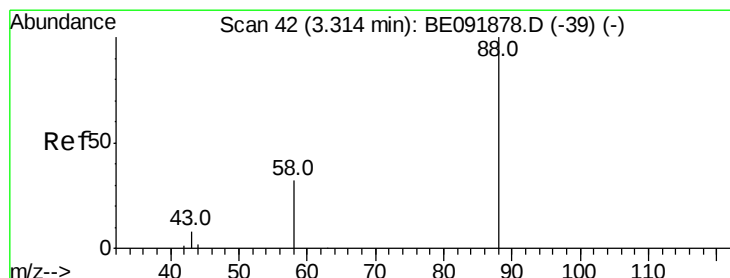
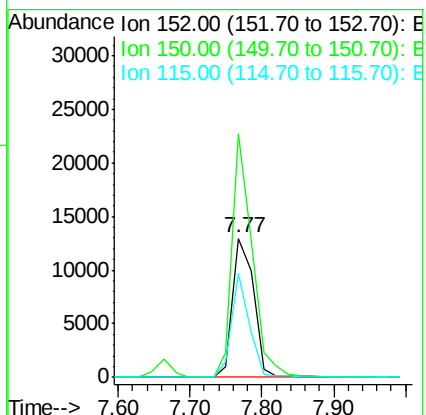
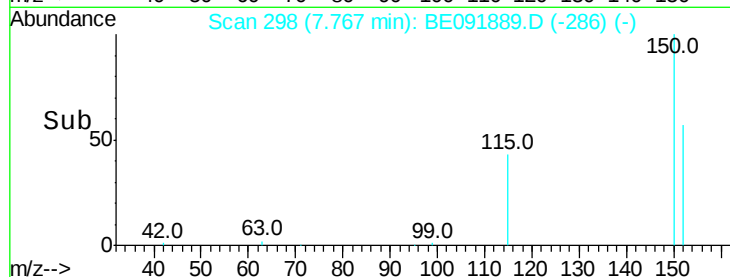
115 75.1 48.3 72.5#



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: 2.83 ng

RT: 3.31 min Scan# 42

Delta R.T. 0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

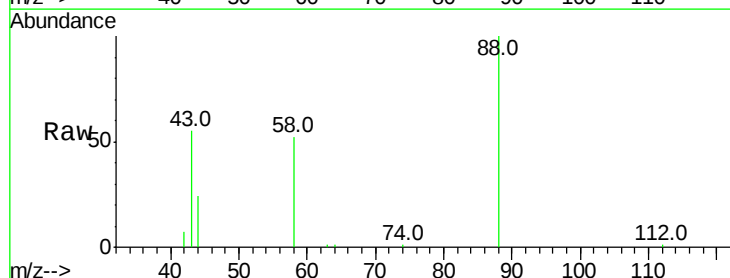
Tgt Ion: 88 Resp: 9673

Ion Ratio Lower Upper

88 100

58 88.3 63.0 94.4

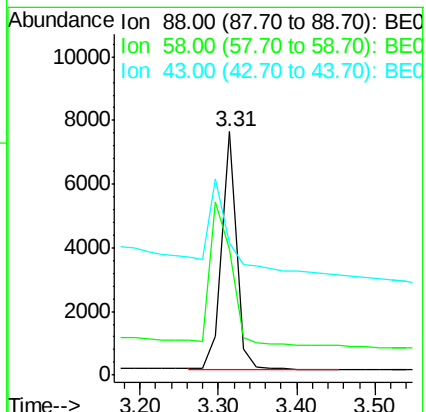
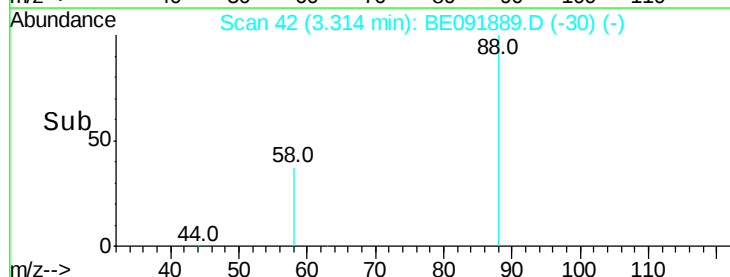
43 62.4 29.1 43.7#

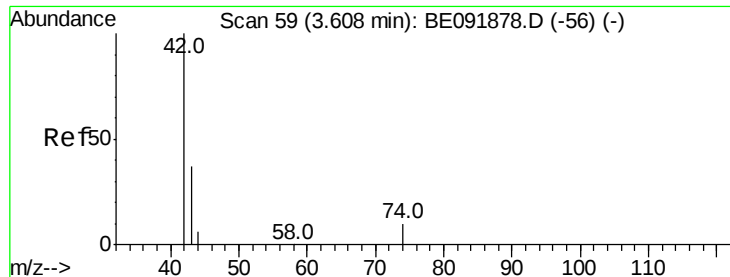


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

n-Nitrosodimethylamine

Concen: 3.17 ng

RT: 3.61 min Scan# 59

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampled :

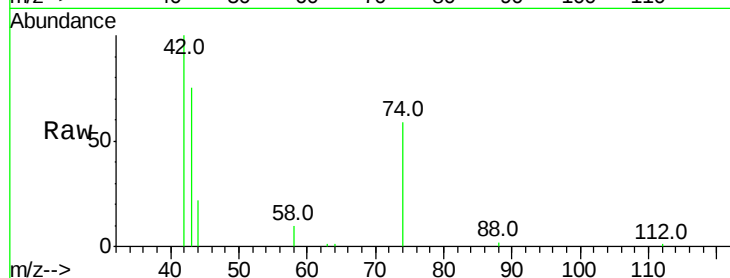
Tot Ion: 42 Resp: 13659

Ion Ratio Lower Upper

42 100

74 110.0 93.4 140.0

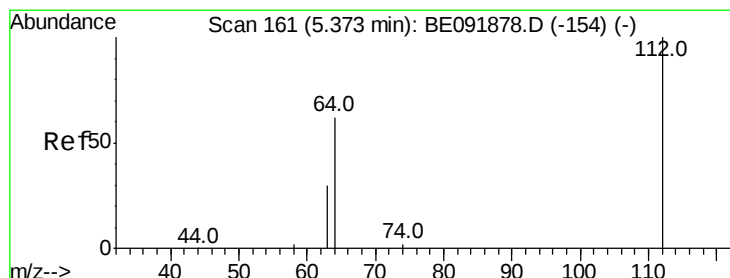
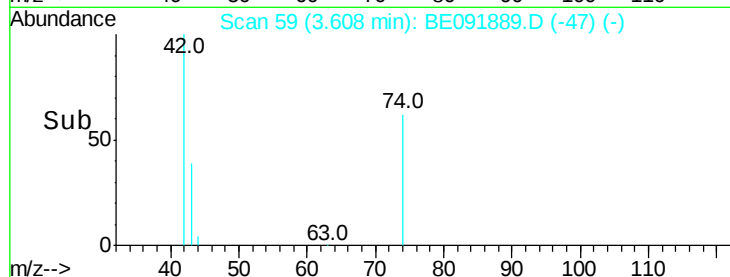
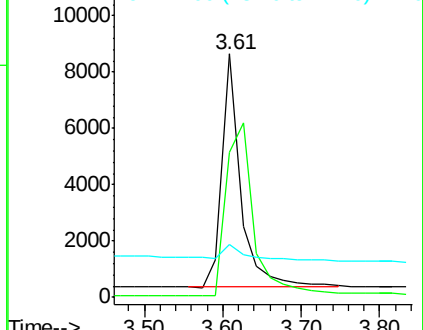
44 9.7 5.0 7.6#



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: 6.96 ng

RT: 5.37 min Scan# 161

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

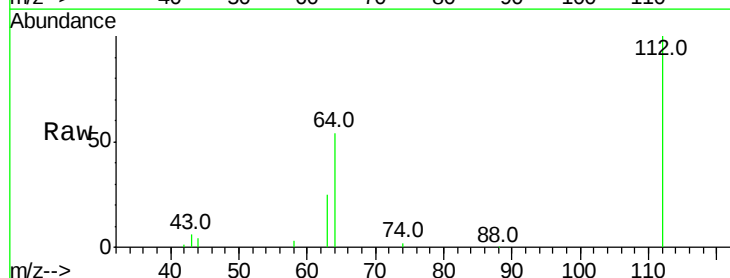
Tgt Ion: 112 Resp: 38176

Ion Ratio Lower Upper

112 100

64 65.5 53.7 80.5

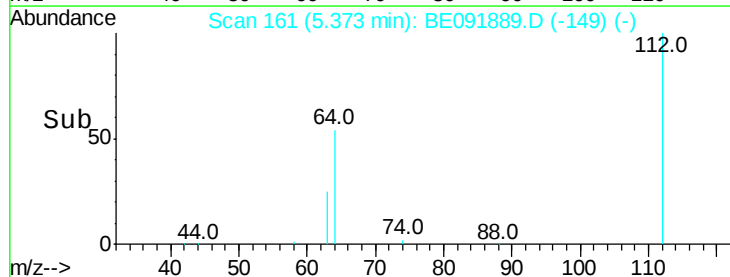
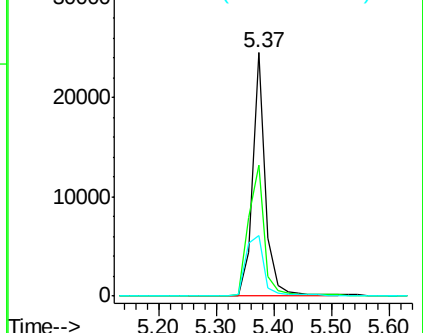
63 35.0 29.5 44.3

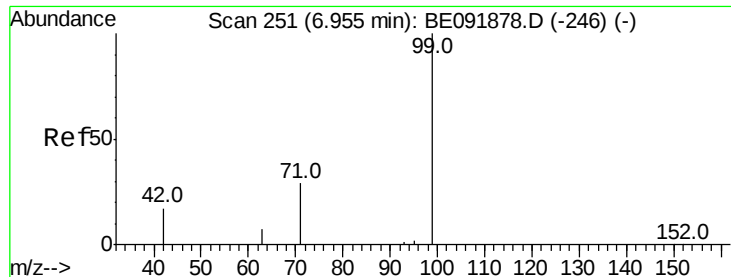


Abundance Ion 112.00 (111.70 to 112.70): BE091878.D (-154) (-)

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: 7.18 ng

RT: 6.94 min Scan# 250

Delta R.T. -0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

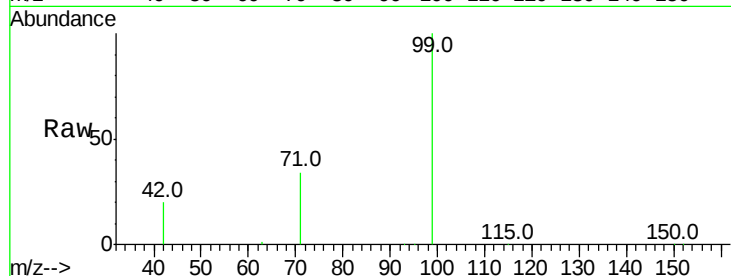
Tot Ion: 99 Resp: 48805

Ion Ratio Lower Upper

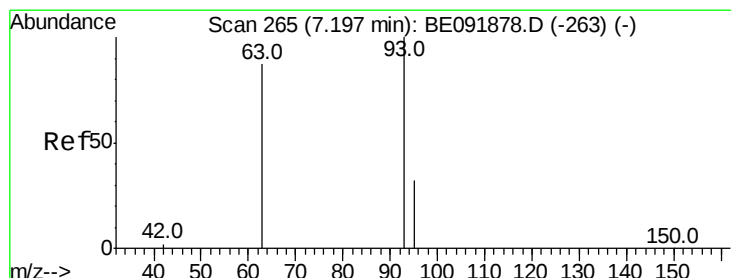
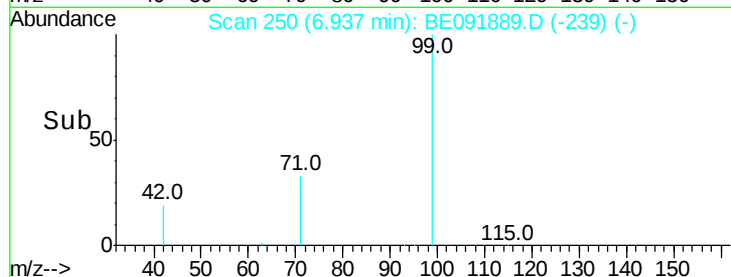
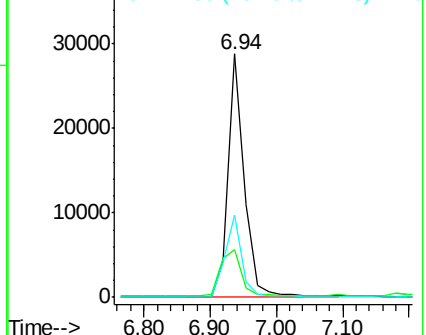
99 100

42 24.6 19.6 29.4

71 35.0 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: 3.22 ng

RT: 7.20 min Scan# 265

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

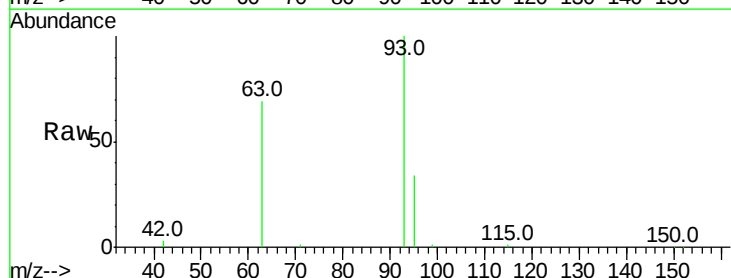
Tgt Ion: 93 Resp: 23680

Ion Ratio Lower Upper

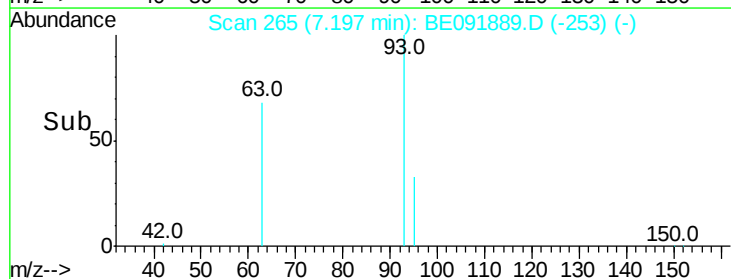
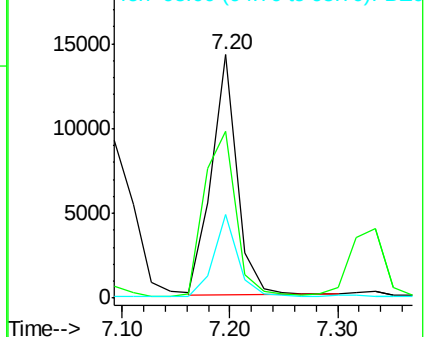
93 100

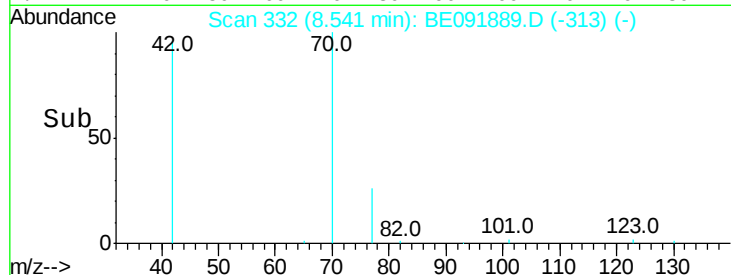
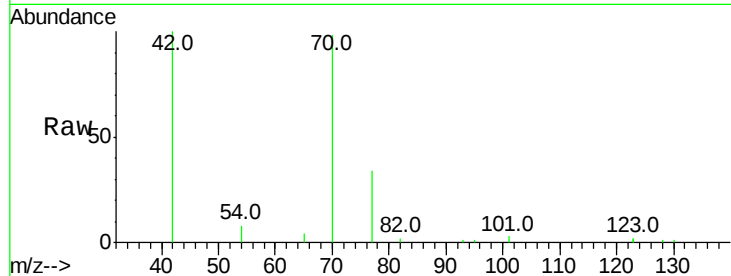
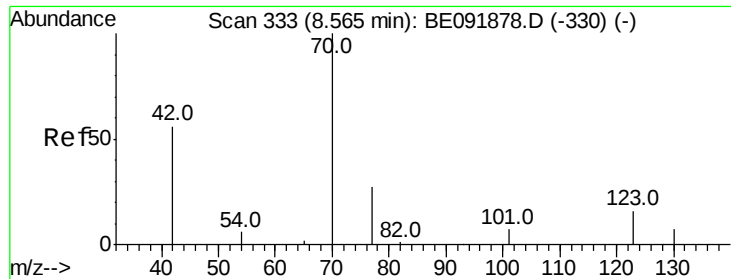
63 84.6 66.2 99.4

95 32.6 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: 2.92 ng

RT: 8.54 min Scan# 332

Delta R.T. -0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 70 Resp: 16999

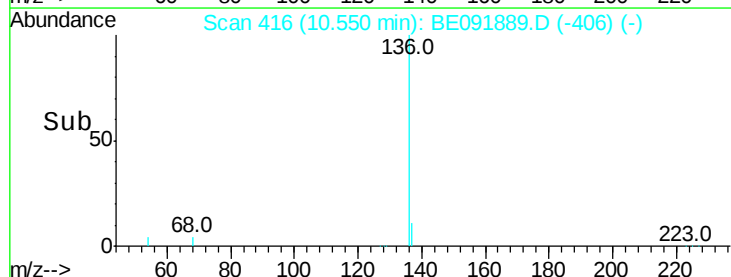
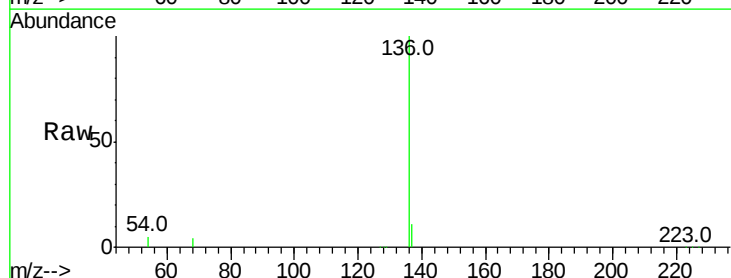
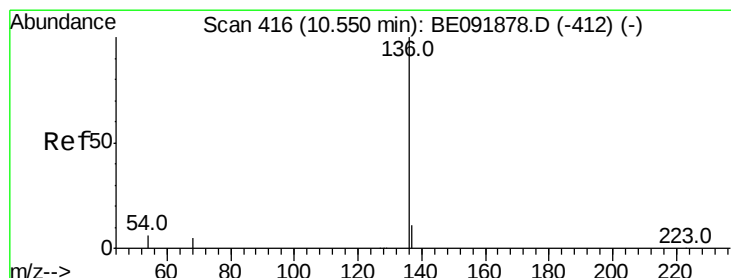
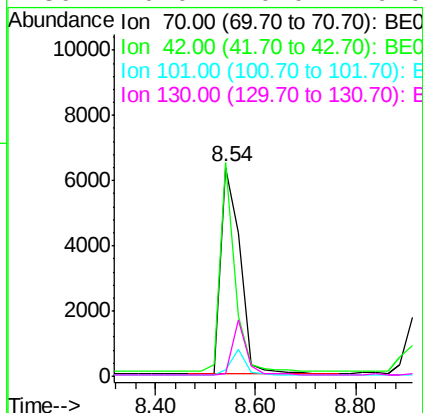
Ion Ratio Lower Upper

70 100

42 77.2 58.4 87.6

101 0.0 6.4 9.6#

130 0.0 0.0 0.0



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 416

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Tgt Ion: 136 Resp: 109457

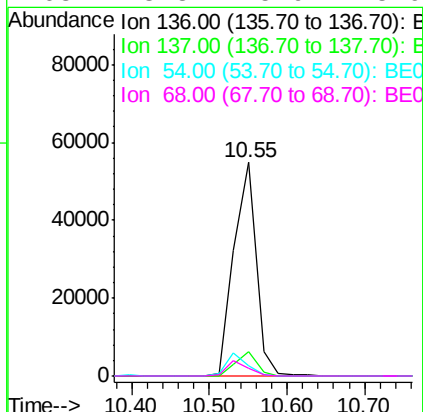
Ion Ratio Lower Upper

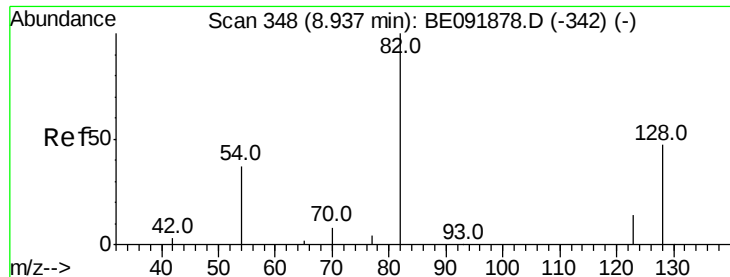
136 100

137 11.5 8.3 12.5

54 4.5 8.2 12.4#

68 3.8 5.9 8.9#





#9

Nitrobenzene-d5

Concen: 3.50 ng

RT: 8.91 min Scan# 347

Delta R.T. -0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

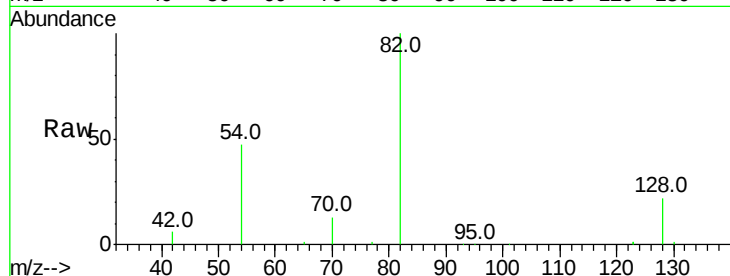
Tot Ion: 82 Resp: 28755

Ion Ratio Lower Upper

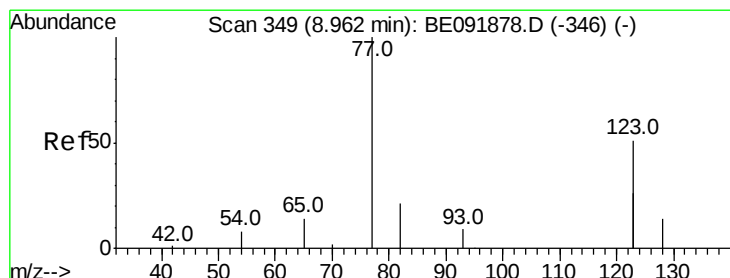
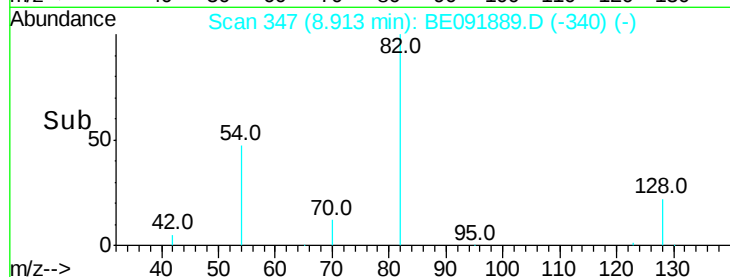
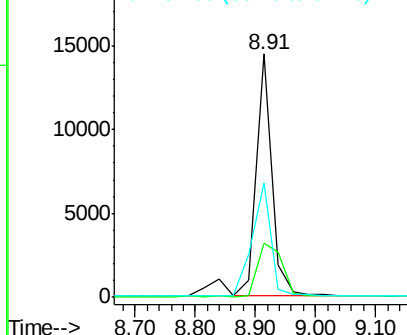
82 100

128 22.0 39.5 59.3#

54 46.8 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: 3.34 ng

RT: 8.96 min Scan# 349

Delta R.T. 0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

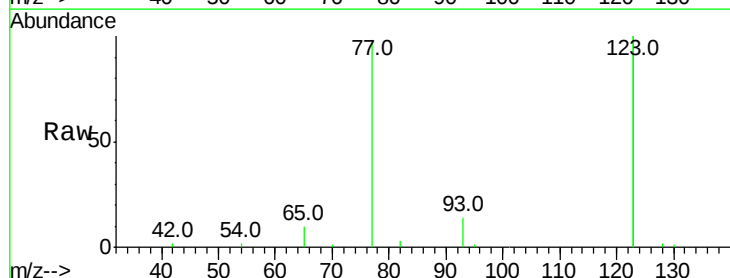
Tgt Ion: 77 Resp: 24997

Ion Ratio Lower Upper

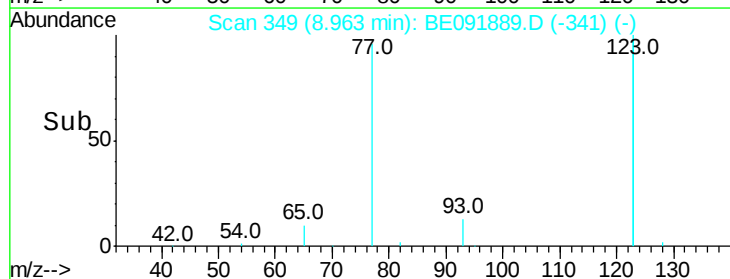
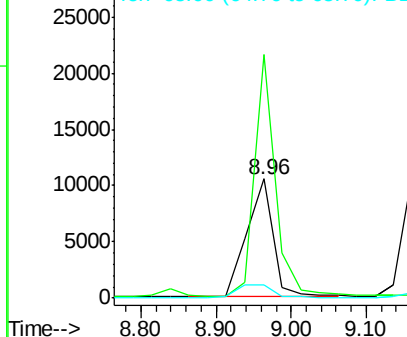
77 100

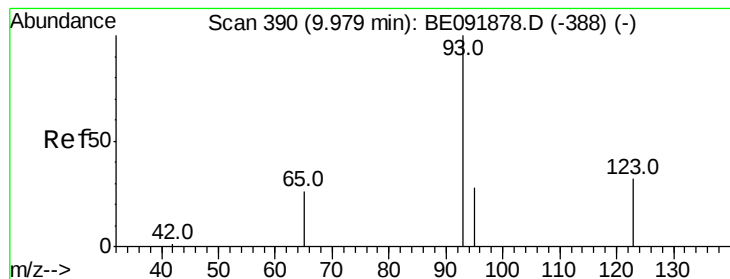
123 163.2 0.0 0.0#

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: 3.19 ng

RT: 9.96 min Scan# 389

Delta R.T. -0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

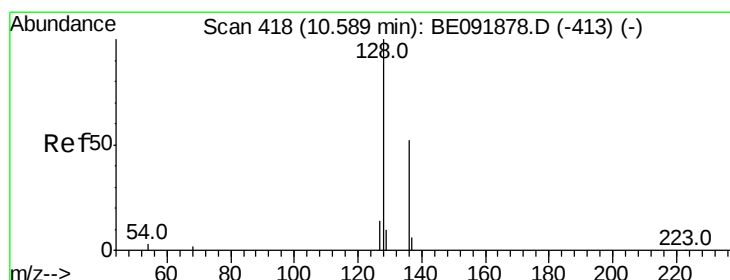
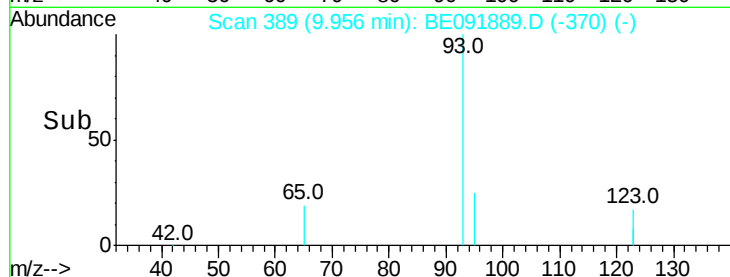
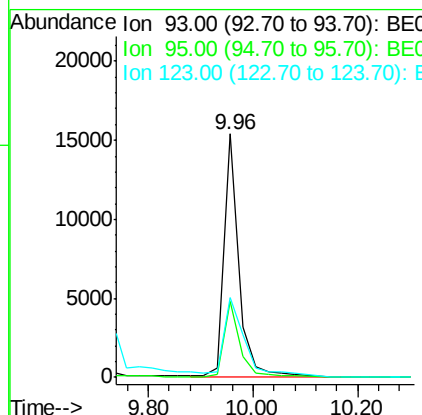
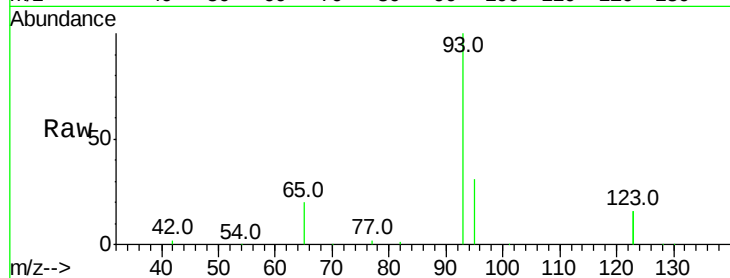
Tot Ion: 93 Resp: 35391

Ion Ratio Lower Upper

93 100

95 33.7 57.6 86.4#

123 47.2 100.2 150.4#



#12

Naphthalene

Concen: 3.16 ng

RT: 10.59 min Scan# 418

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

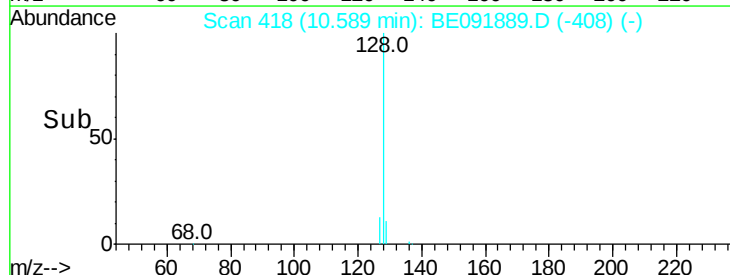
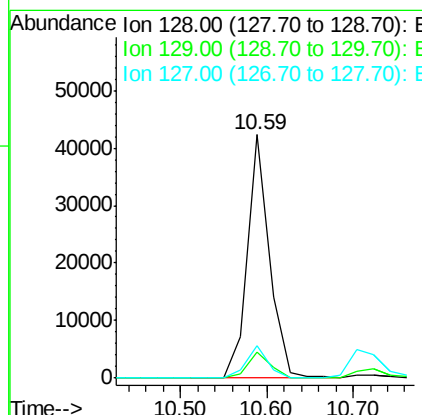
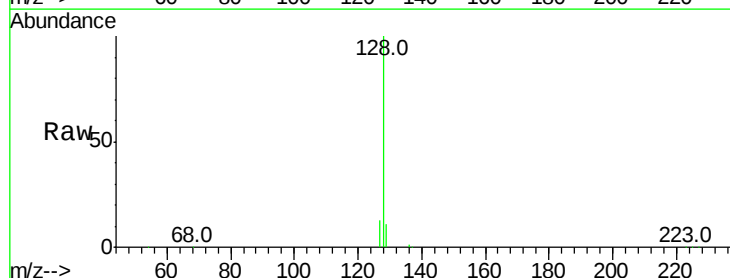
Tgt Ion: 128 Resp: 74646

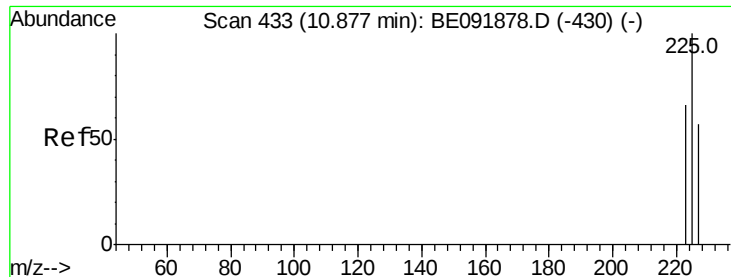
Ion Ratio Lower Upper

128 100

129 10.8 10.4 15.6

127 13.4 10.2 15.2

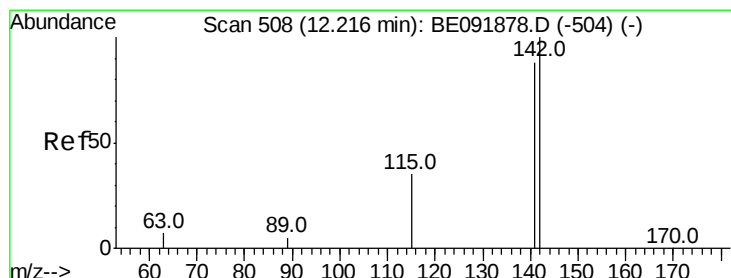
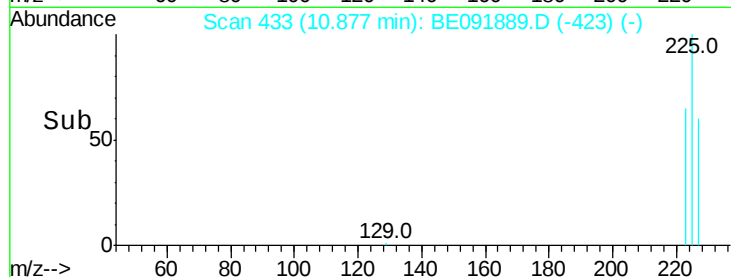
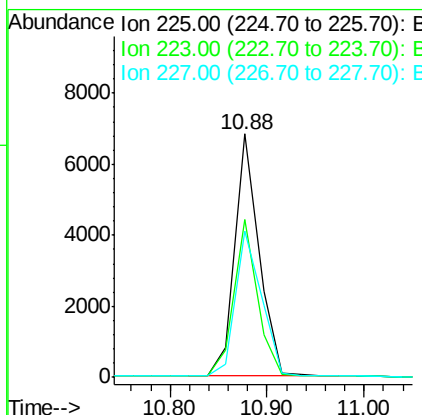
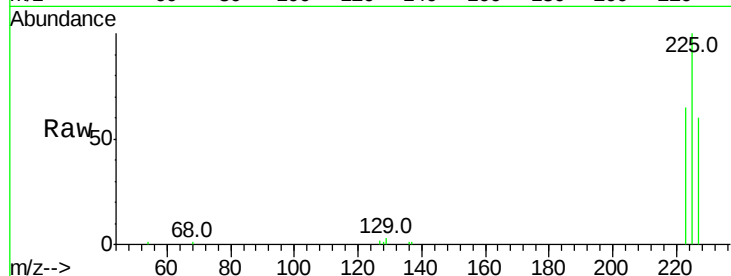




#13
Hexachlorobutadiene
Concen: 3.32 ng
RT: 10.88 min Scan# 433
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

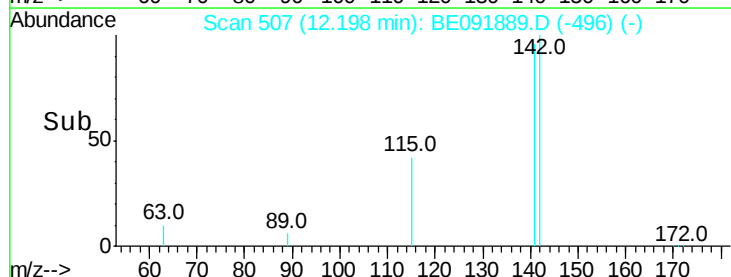
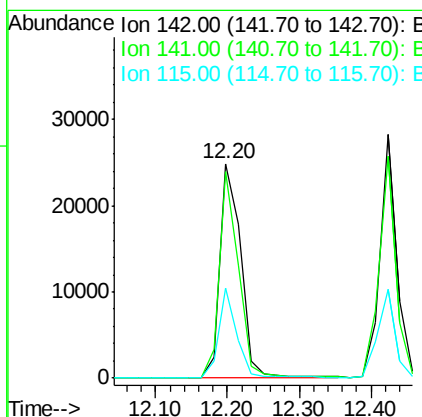
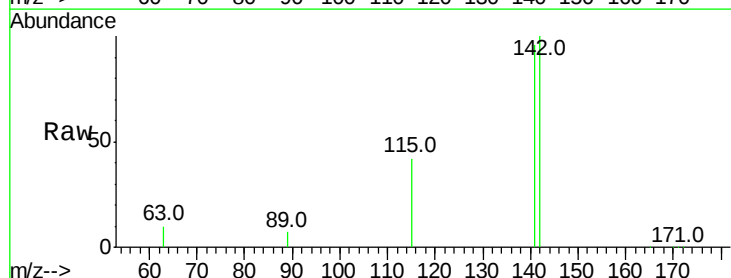
Instrument :
BNA_E
ClientSampleId :

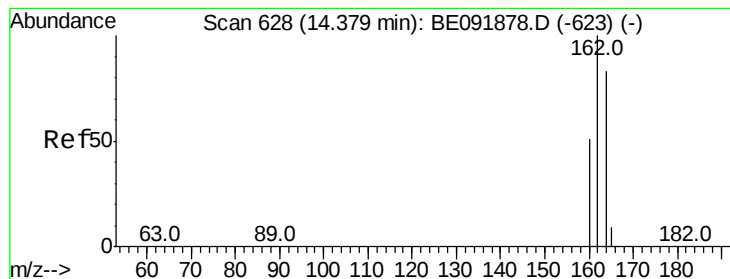
Tot Ion:225 Resp: 11676
Ion Ratio Lower Upper
225 100
223 62.6 49.8 74.8
227 64.0 50.6 75.8



#14
2-Methylnaphthalene
Concen: 3.28 ng
RT: 12.20 min Scan# 507
Delta R.T. -0.02 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

Tgt Ion:142 Resp: 49949
Ion Ratio Lower Upper
142 100
141 96.4 71.9 107.9
115 42.0 29.9 44.9





#15

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.38 min Scan# 628

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

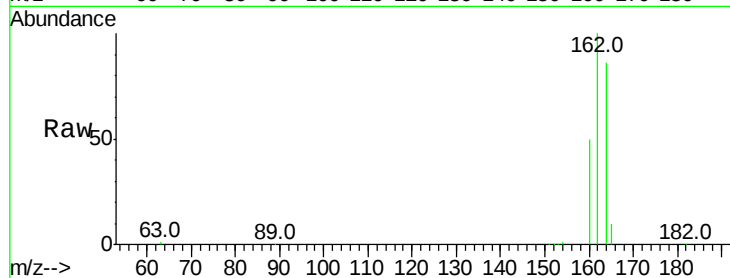
Tot Ion:164 Resp: 55465

Ion Ratio Lower Upper

164 100

162 115.9 71.8 107.8#

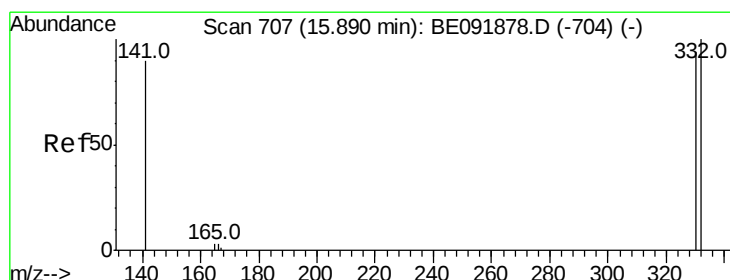
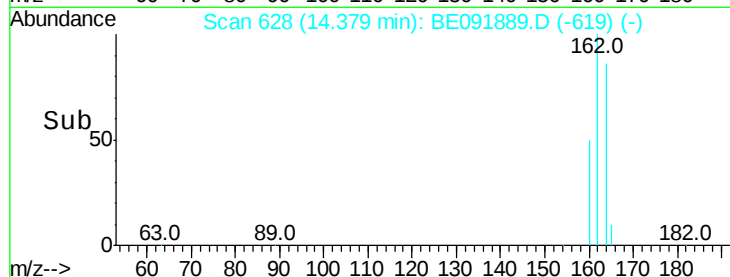
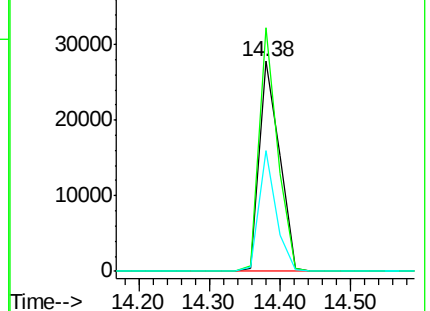
160 57.7 28.0 42.0#



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: 6.84 ng

RT: 15.87 min Scan# 706

Delta R.T. -0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

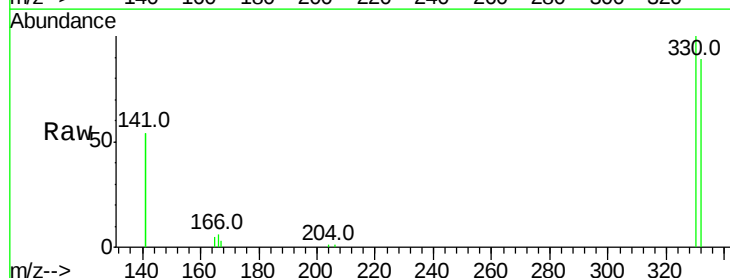
Tgt Ion:330 Resp: 10805

Ion Ratio Lower Upper

330 100

332 97.1 77.0 115.6

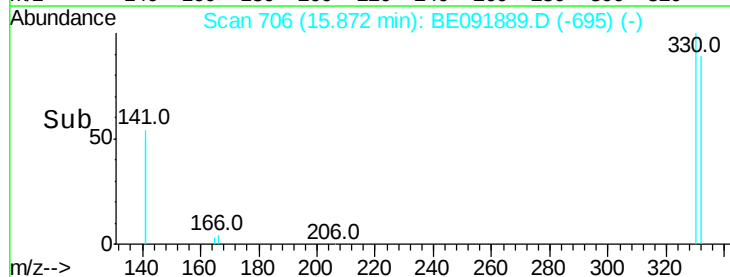
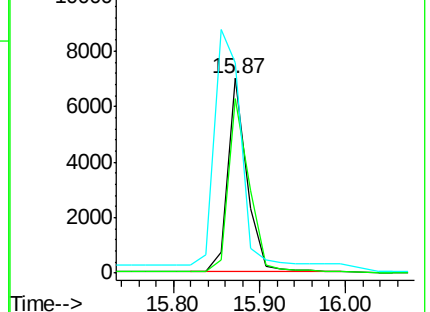
141 165.6 138.4 207.6

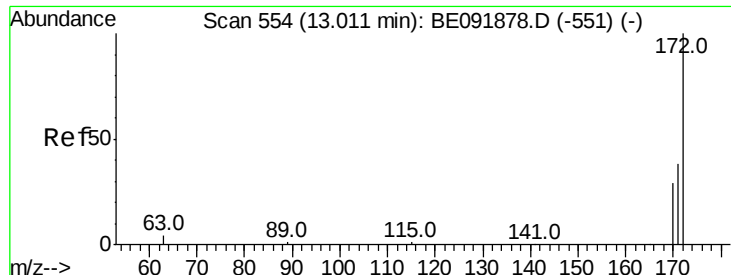


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

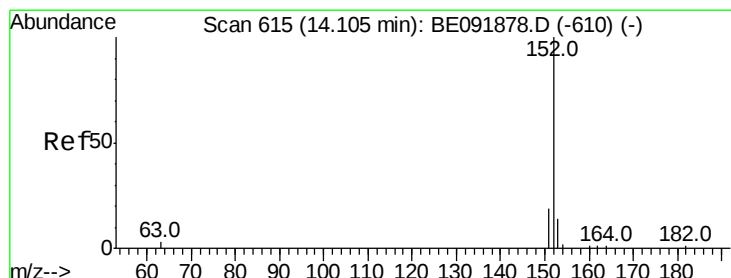
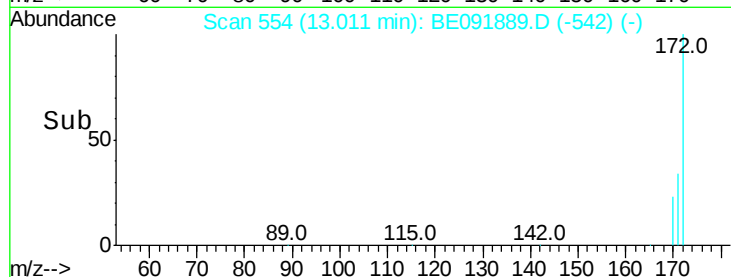
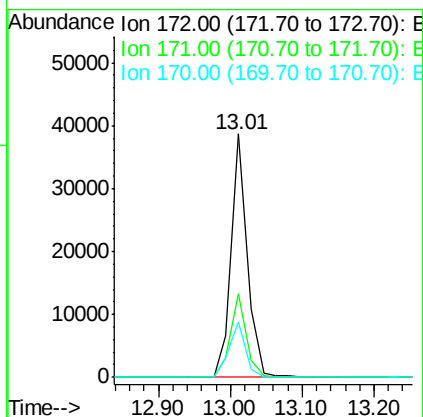
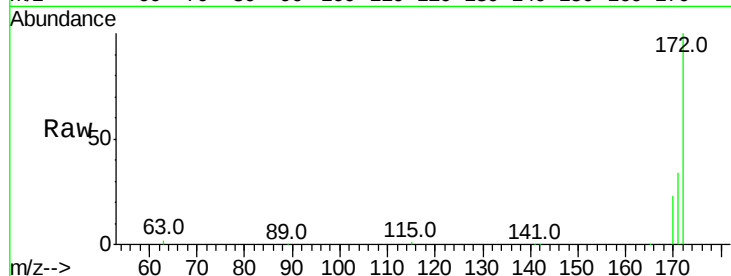




#17
2-Fluorobiphenyl
Concen: 3.53 ng
RT: 13.01 min Scan# 554
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

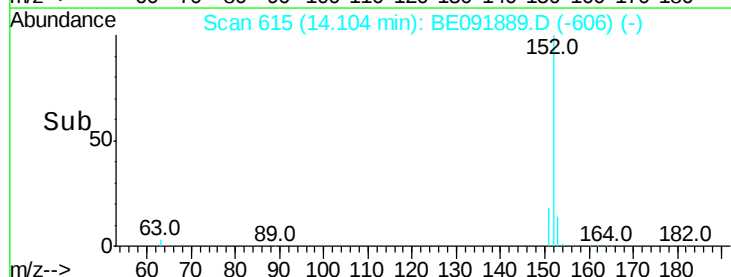
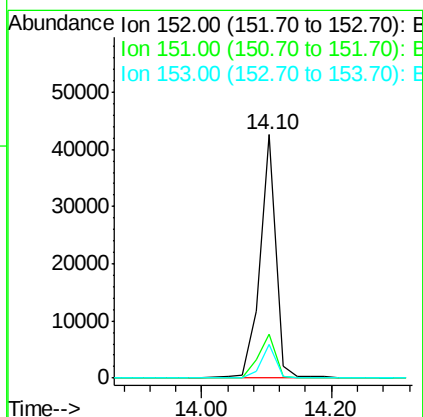
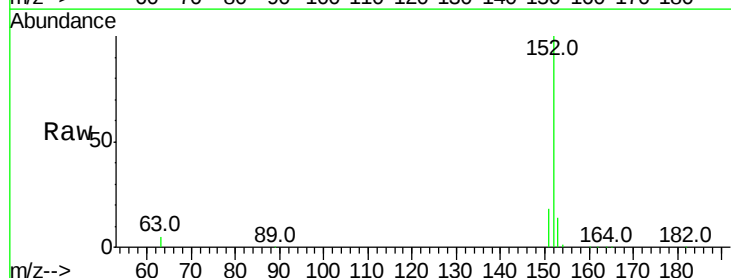
Instrument :
BNA_E
ClientSampleId :

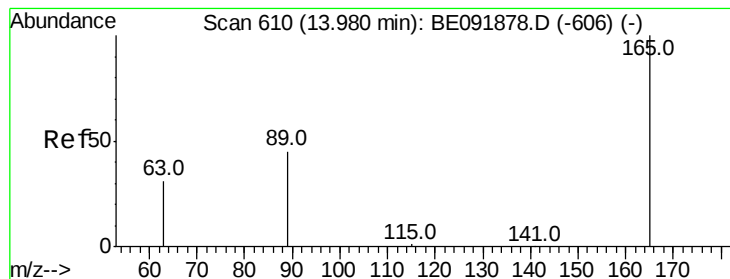
Tot Ion:172 Resp: 59381
Ion Ratio Lower Upper
172 100
171 34.3 24.3 36.5
170 22.8 14.9 22.3#



#18
Acenaphthylene
Concen: 3.19 ng
RT: 14.10 min Scan# 615
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

Tgt Ion:152 Resp: 80108
Ion Ratio Lower Upper
152 100
151 20.0 19.4 29.2
153 13.6 14.4 21.6#





#19

2,6-Dinitrotoluene

Concen: 2.99 ng

RT: 13.96 min Scan# 609

Delta R.T. -0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

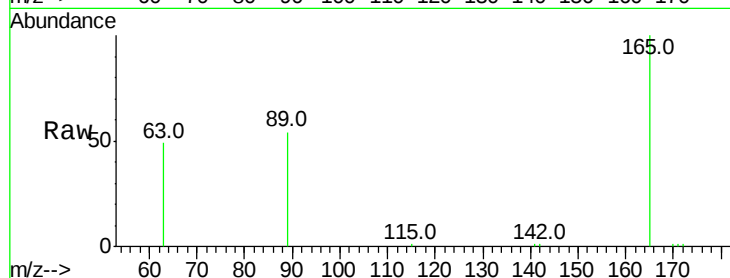
Tot Ion:165 Resp: 11089

Ion Ratio Lower Upper

165 100

63 81.6 65.9 98.9

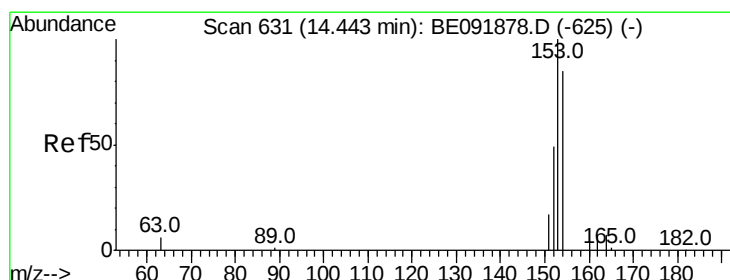
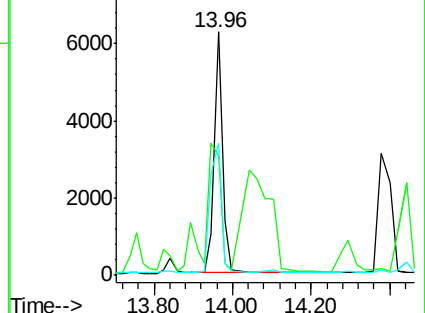
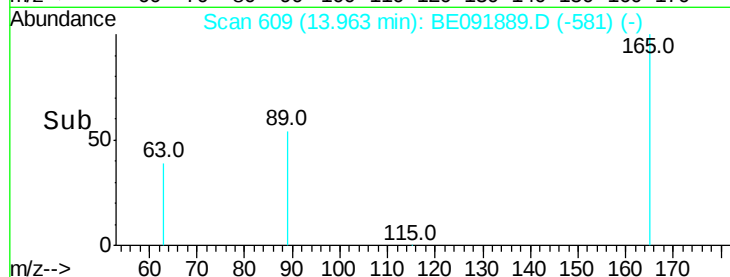
89 70.7 59.1 88.7



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: 3.28 ng

RT: 14.44 min Scan# 631

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

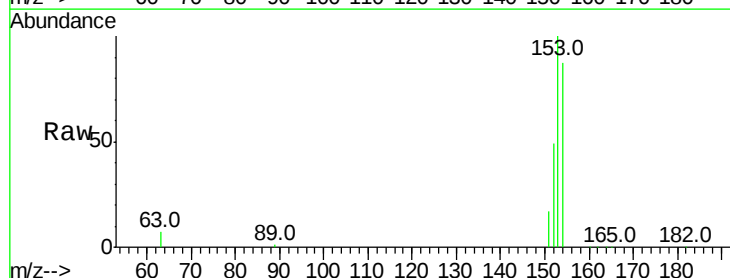
Tgt Ion:154 Resp: 50317

Ion Ratio Lower Upper

154 100

153 105.5 88.1 132.1

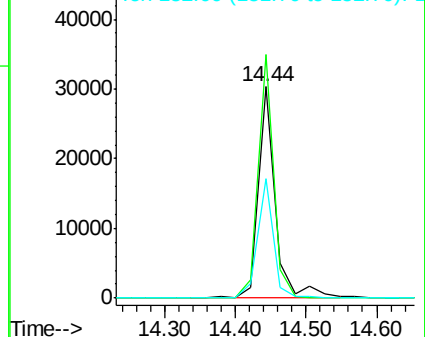
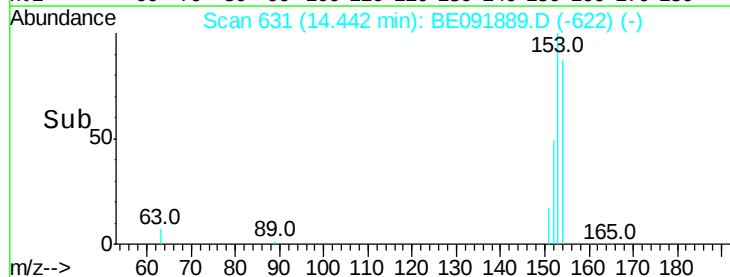
152 52.0 44.2 66.2

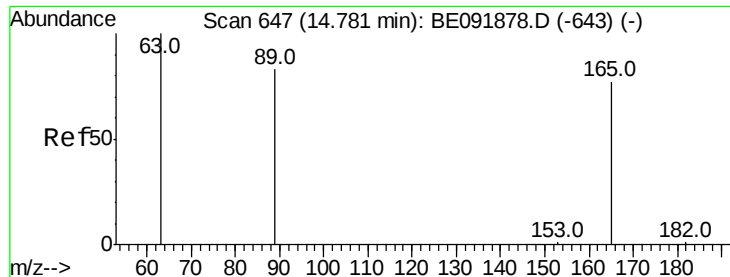


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

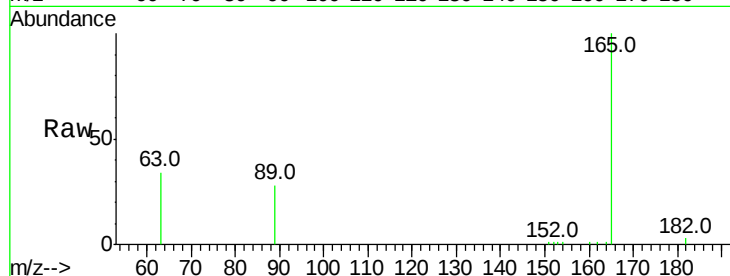




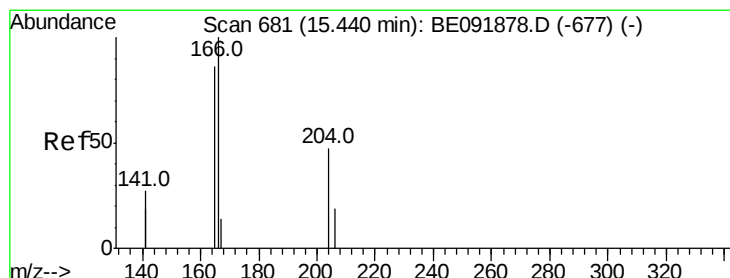
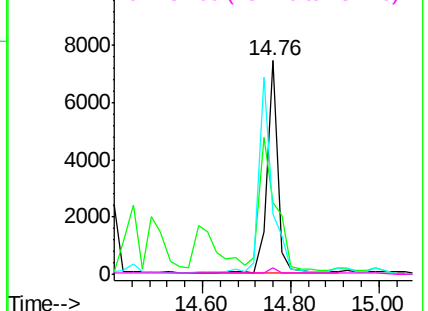
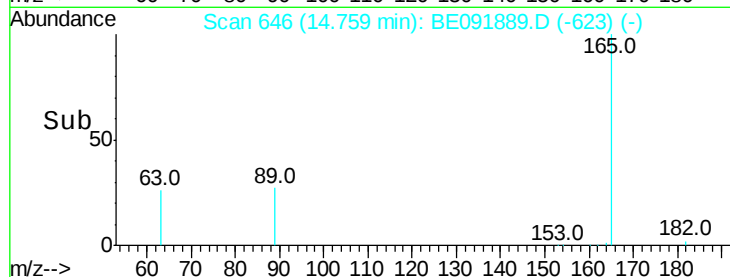
#21
2,4-Dinitrotoluene
Concen: 2.96 ng
RT: 14.76 min Scan# 646
Delta R.T. -0.02 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

Instrument :
BNA_E
ClientSampleId :

Tot Ion:165 Resp: 12476
Ion Ratio Lower Upper
165 100
63 0.0 0.0 0.0
89 0.0 99.8 149.8#
182 2.1 0.0 0.0#

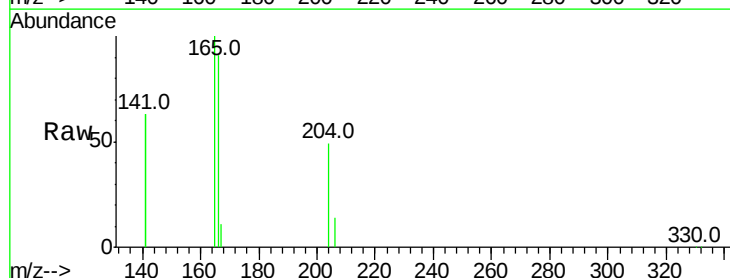


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BE0
Ion 89.00 (88.70 to 89.70): BE0
Ion 182.00 (181.70 to 182.70): E

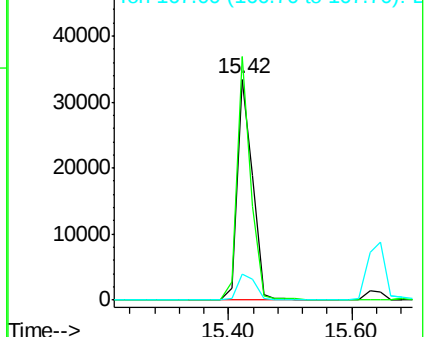
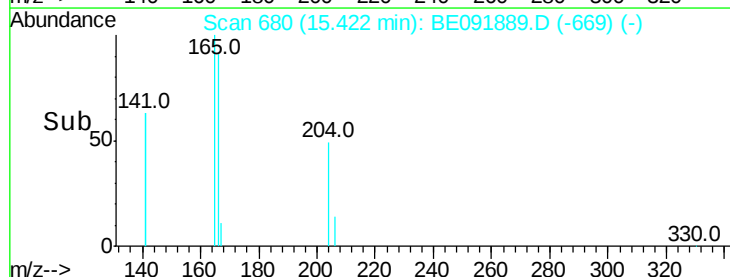


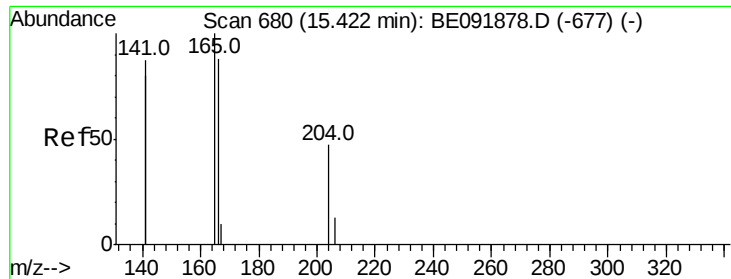
#22
Fluorene
Concen: 3.07 ng
RT: 15.42 min Scan# 680
Delta R.T. -0.02 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

Tgt Ion:166 Resp: 57535
Ion Ratio Lower Upper
166 100
165 99.3 78.6 117.8
167 13.4 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

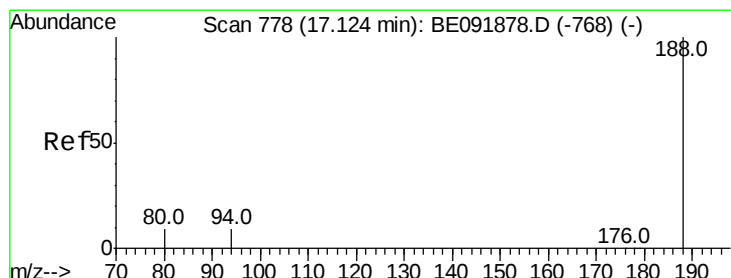
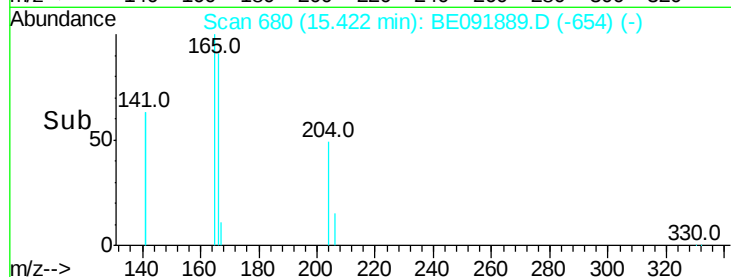
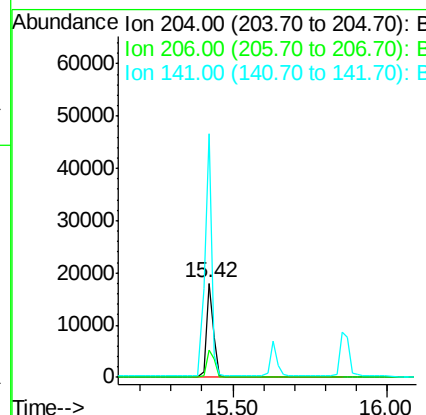
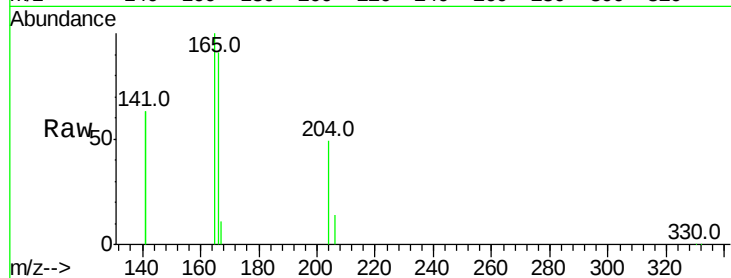




#23
4-Chlorophenyl-phenylether
Concen: 3.07 ng
RT: 15.42 min Scan# 680
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

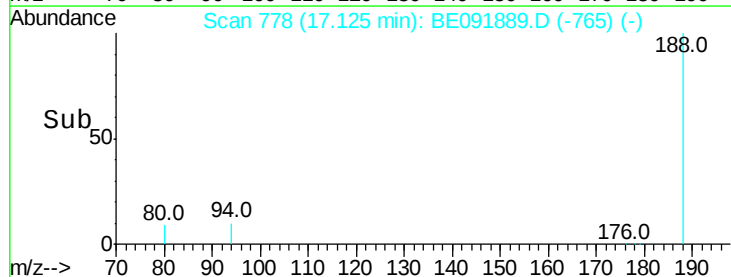
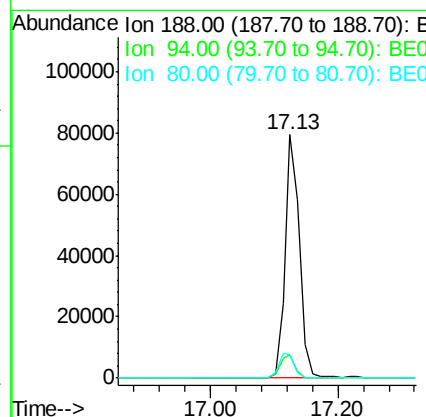
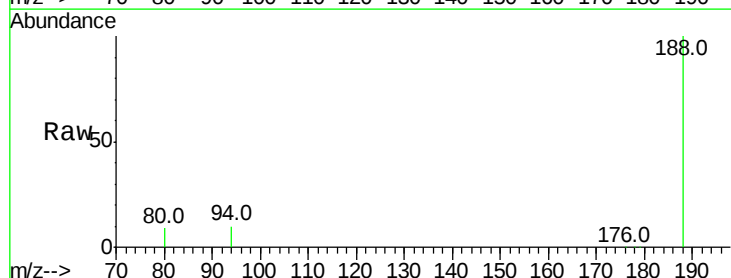
Instrument :
BNA_E
ClientSampleId :

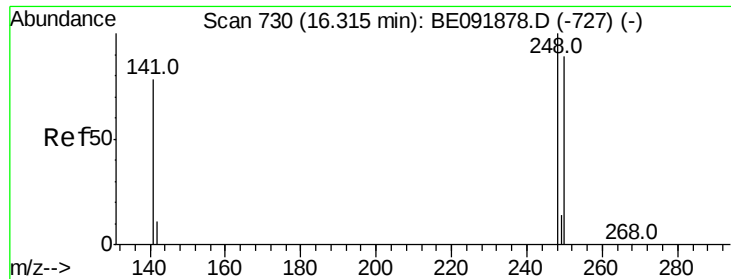
Tot Ion:204 Resp: 28245
Ion Ratio Lower Upper
204 100
206 33.4 27.8 41.6
141 250.8 197.6 296.4



#24
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.13 min Scan# 778
Delta R.T. 0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

Tgt Ion:188 Resp: 147465
Ion Ratio Lower Upper
188 100
94 9.7 4.1 6.1#
80 9.4 3.4 5.2#

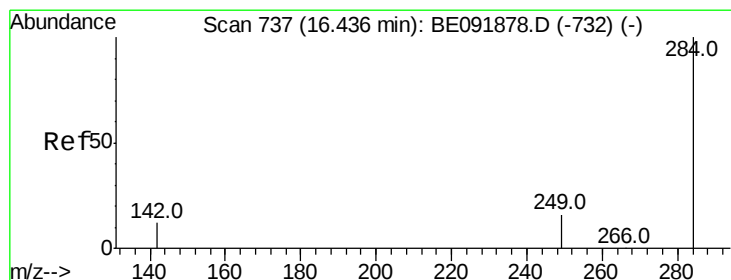
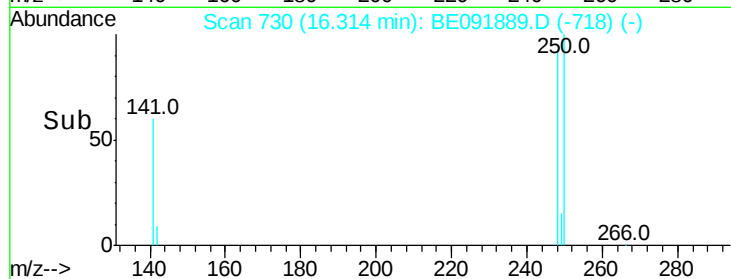
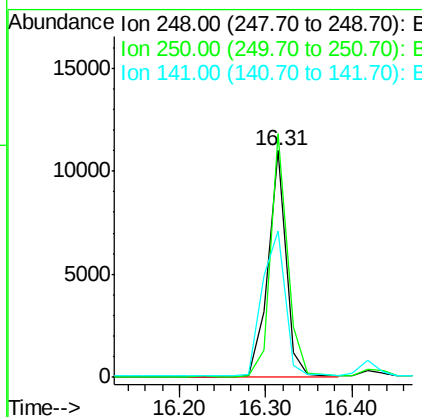
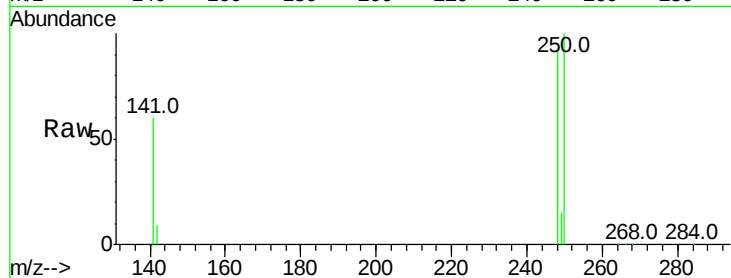




#25
4-Bromophenyl-phenylether
Concen: 3.04 ng
RT: 16.31 min Scan# 730
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

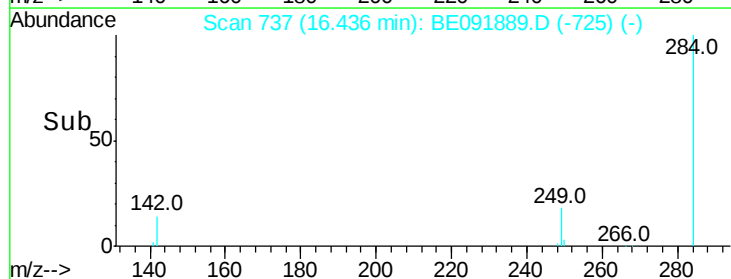
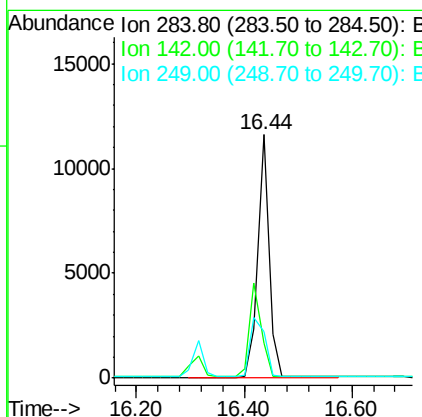
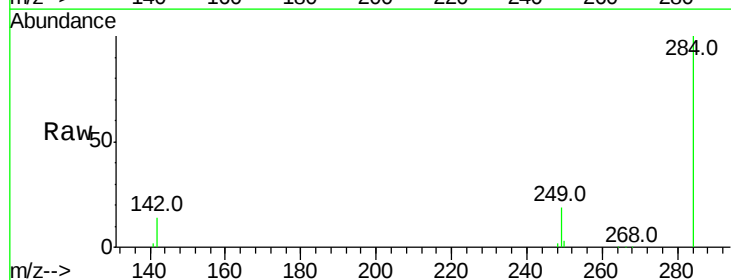
Instrument :
BNA_E
ClientSampleId :

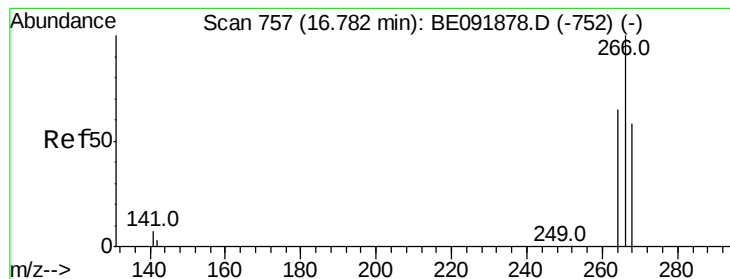
Tot Ion:248 Resp: 16080
Ion Ratio Lower Upper
248 100
250 101.5 75.7 113.5
141 81.3 64.6 97.0



#26
Hexachlorobenzene
Concen: 3.07 ng
RT: 16.44 min Scan# 737
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

Tgt Ion:284 Resp: 16665
Ion Ratio Lower Upper
284 100
142 40.3 31.4 47.2
249 32.1 25.3 37.9





#27

Pentachlorophenol

Concen: 5.70 ng

RT: 16.78 min Scan# 757

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

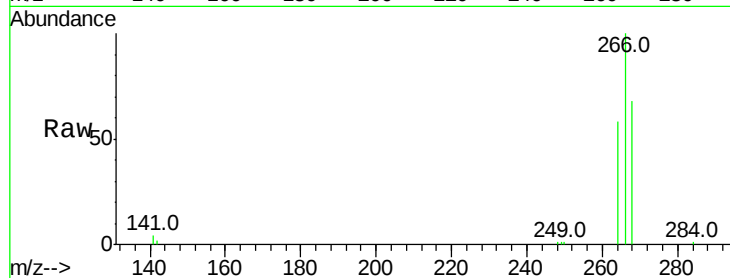
Tot Ion:266 Resp: 14966

Ion Ratio Lower Upper

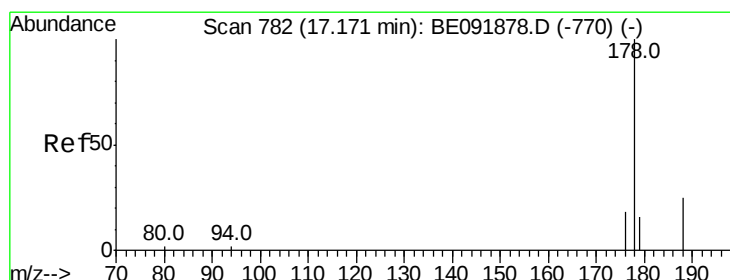
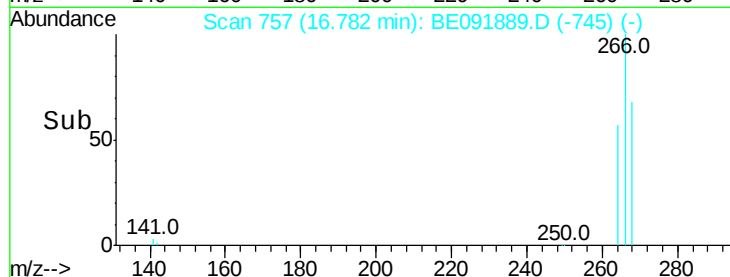
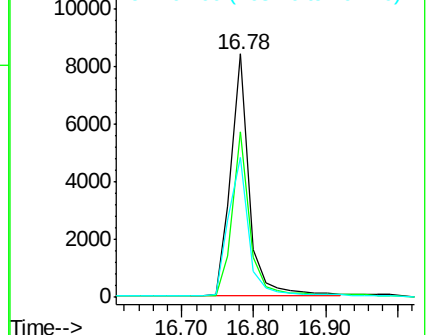
266 100

268 68.2 60.5 90.7

264 57.6 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: 2.90 ng

RT: 17.17 min Scan# 782

Delta R.T. 0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

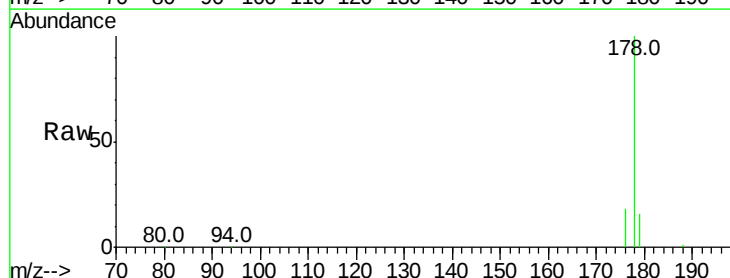
Tgt Ion:178 Resp: 99192

Ion Ratio Lower Upper

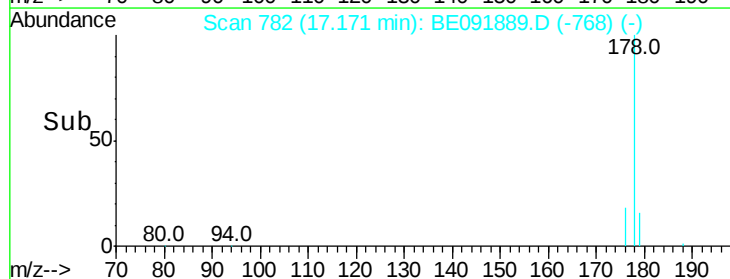
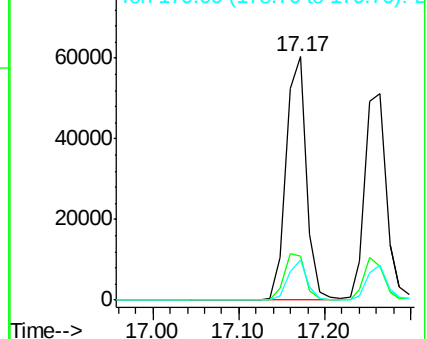
178 100

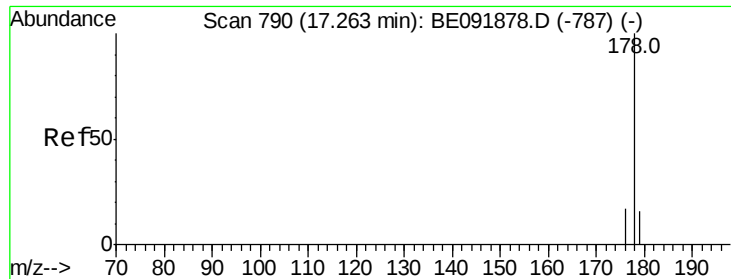
176 19.6 15.4 23.2

179 15.3 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: 2.98 ng

RT: 17.26 min Scan# 790

Delta R.T. 0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

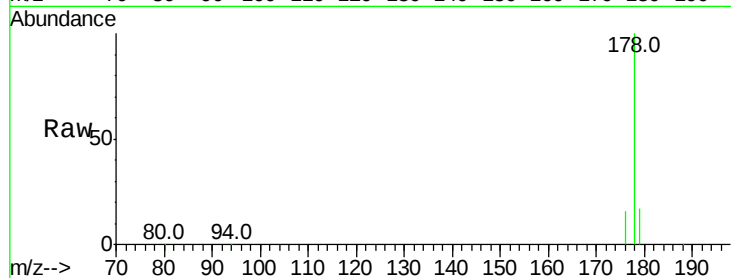
Tot Ion:178 Resp: 90535

Ion Ratio Lower Upper

178 100

176 18.8 15.1 22.7

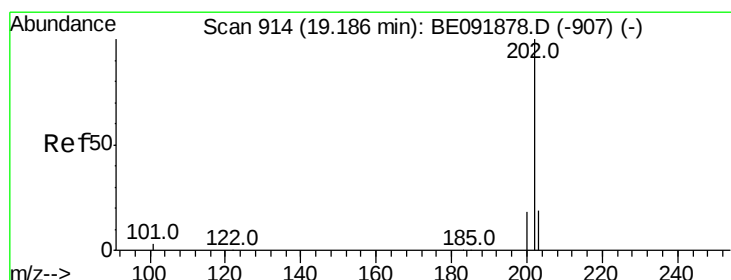
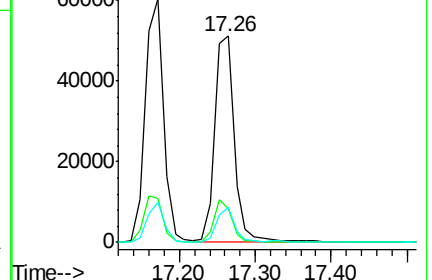
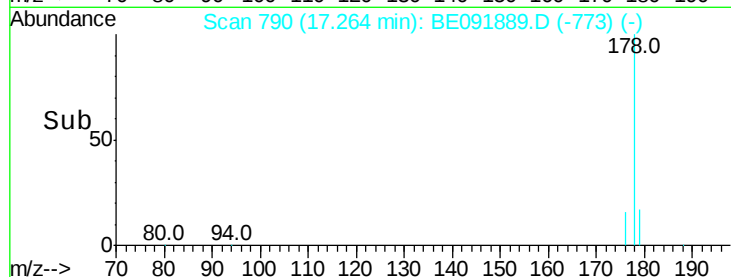
179 15.6 12.1 18.1



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: 2.82 ng

RT: 19.17 min Scan# 913

Delta R.T. -0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

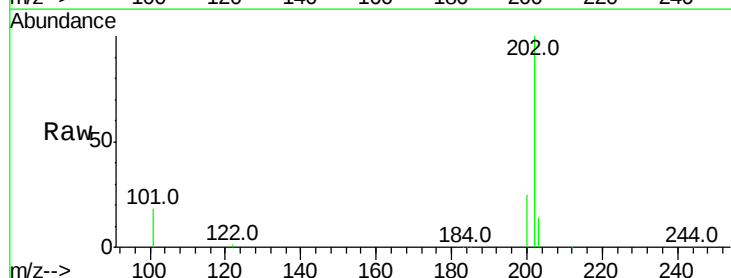
Tgt Ion:202 Resp: 104051

Ion Ratio Lower Upper

202 100

101 11.4 9.4 14.0

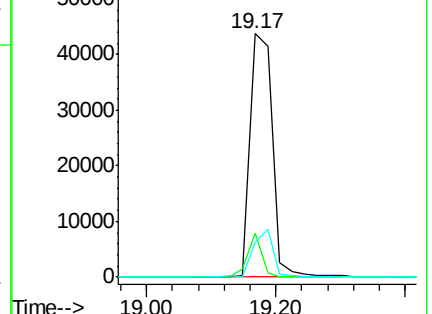
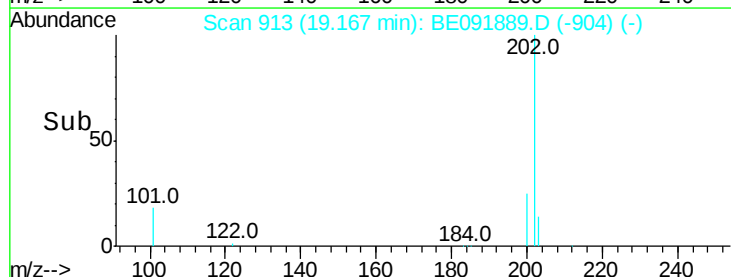
203 17.6 14.3 21.5

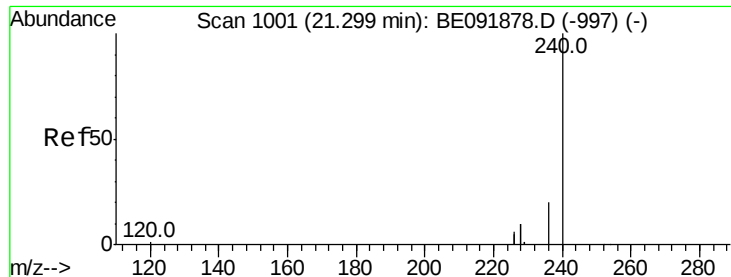


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

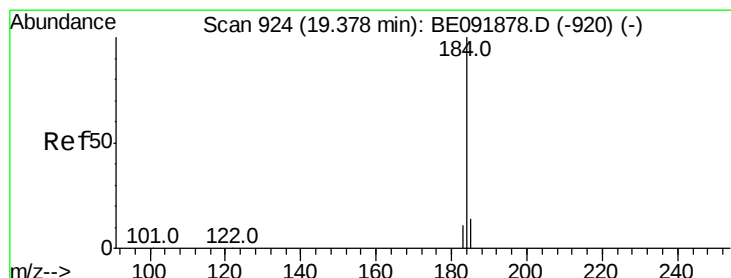
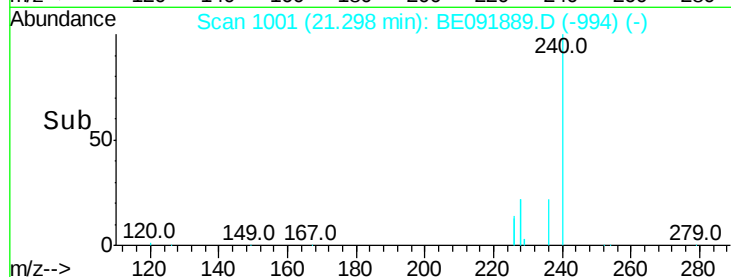
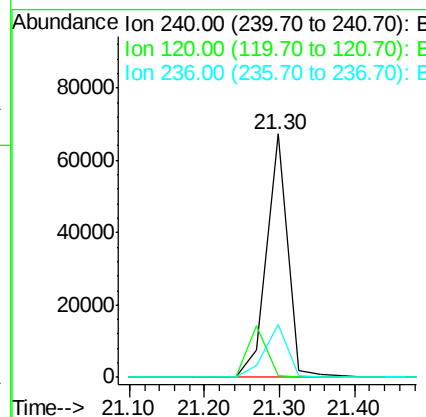
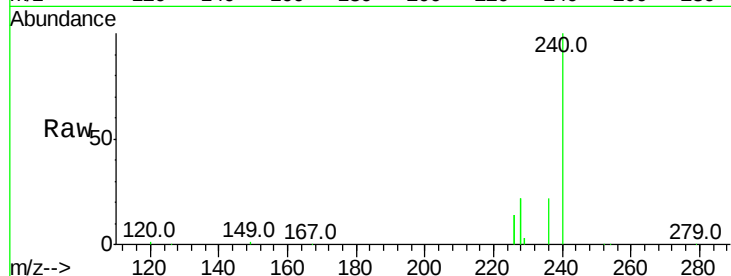




#31
Chrysene-d12
Concen: 5.00 ng
RT: 21.30 min Scan# 1001
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

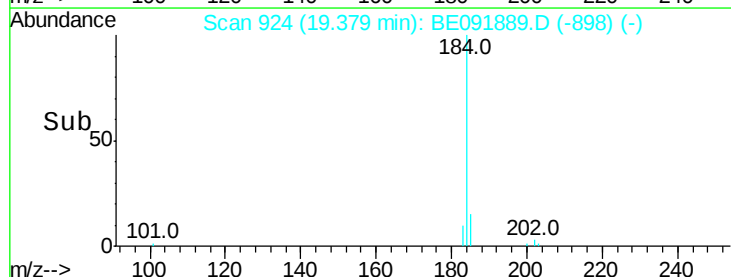
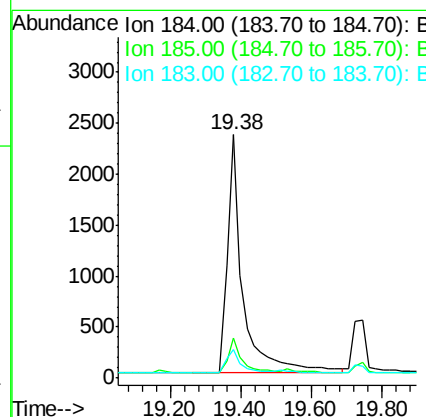
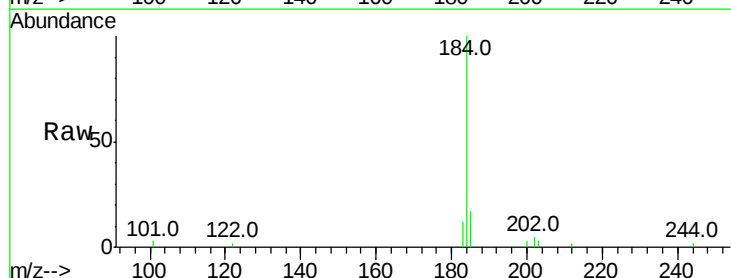
Instrument :
BNA_E
ClientSampleId :

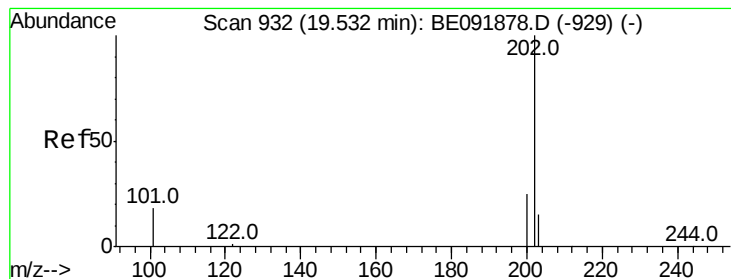
Tot Ion:240 Resp: 132466
Ion Ratio Lower Upper
240 100
120 0.6 1.2 1.8#
236 21.6 19.8 29.8



#32
Benzidine
Concen: 0.75 ng
RT: 19.38 min Scan# 924
Delta R.T. 0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

Tgt Ion:184 Resp: 7091
Ion Ratio Lower Upper
184 100
185 16.7 11.4 17.2
183 11.9 11.8 17.6





#33

Pvrene

Concen: 3.26 ng

RT: 19.53 min Scan# 932

Delta R.T. 0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

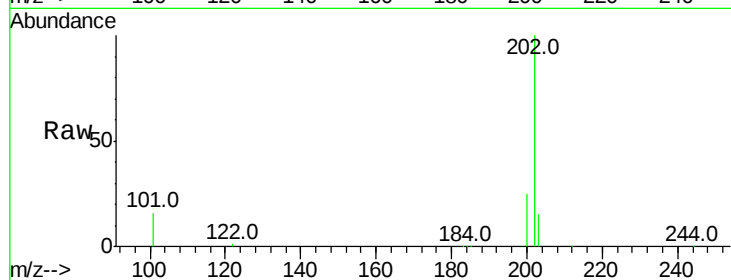
Tot Ion:202 Resp: 108903

Ion Ratio Lower Upper

202 100

200 22.0 16.9 25.3

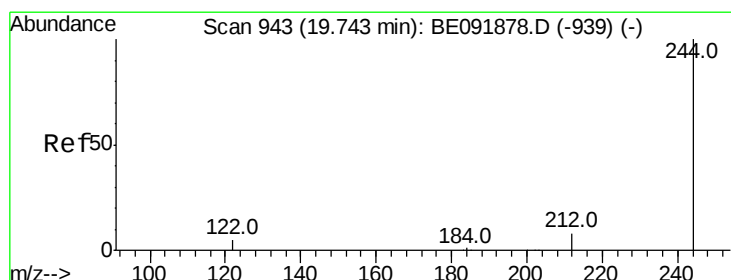
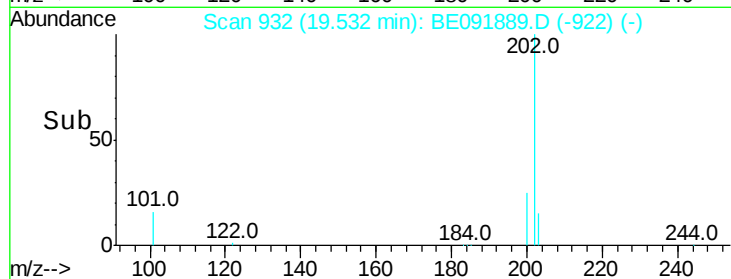
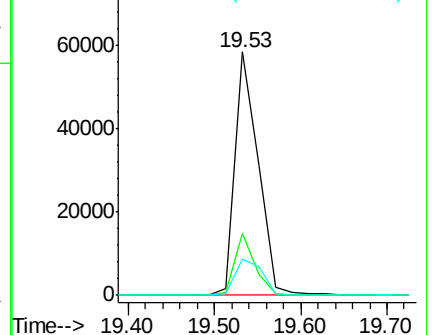
203 17.6 14.1 21.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#34

Terphenyl-d14

Concen: 3.95 ng

RT: 19.74 min Scan# 943

Delta R.T. 0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

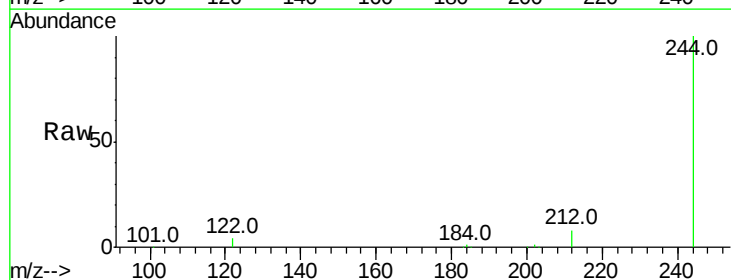
Tgt Ion:244 Resp: 74801

Ion Ratio Lower Upper

244 100

212 8.3 6.5 9.7

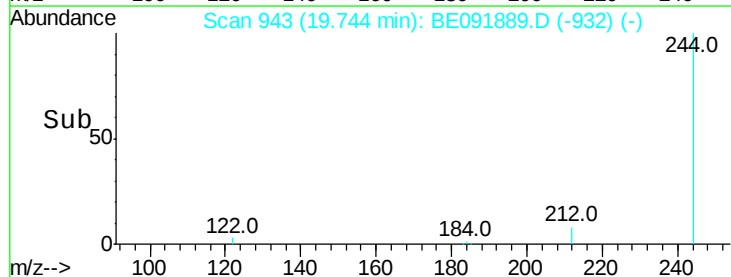
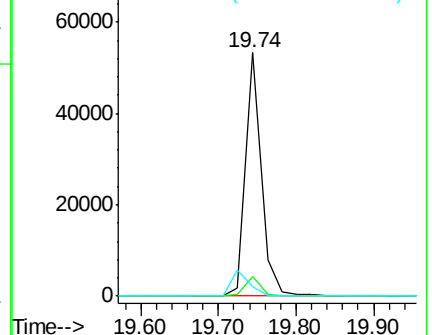
122 4.0 2.9 4.3

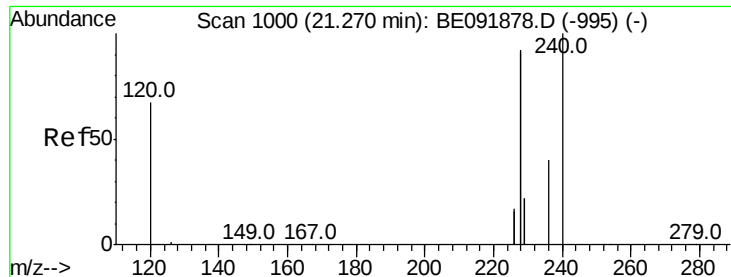


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

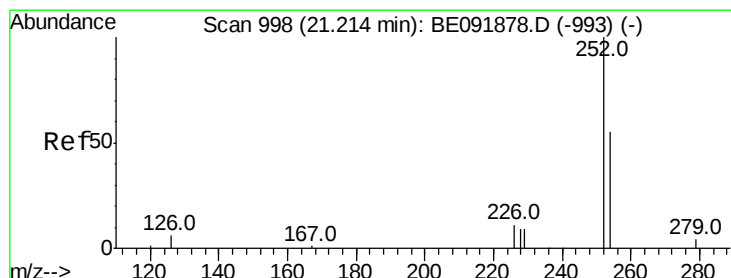
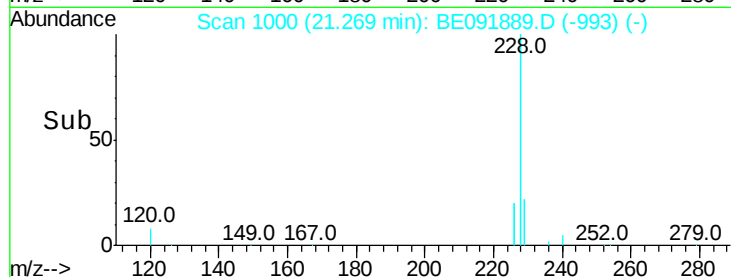
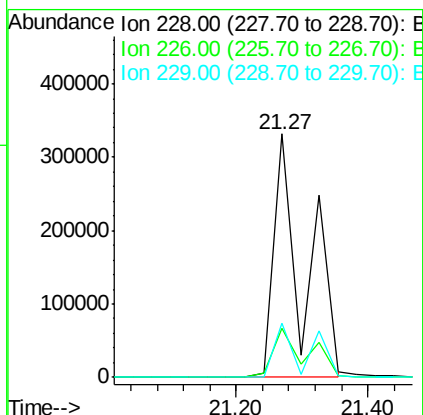
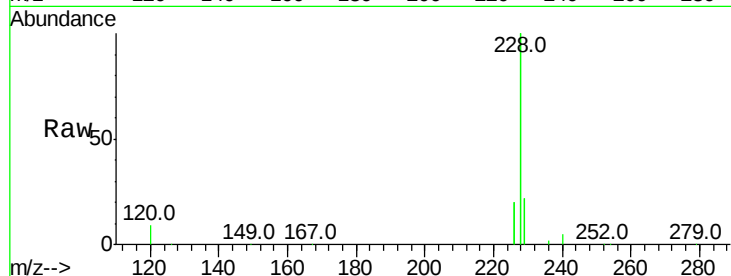




#35
Benzo(a)anthracene
Concen: 6.56 ng
RT: 21.27 min Scan# 1000
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

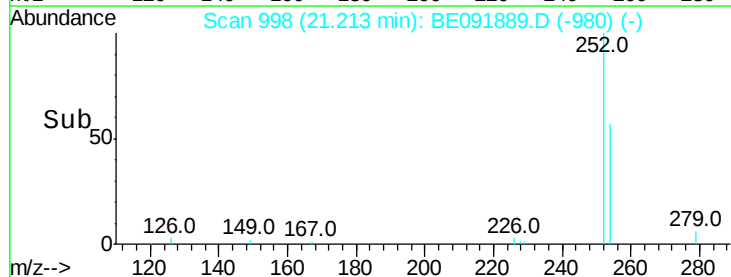
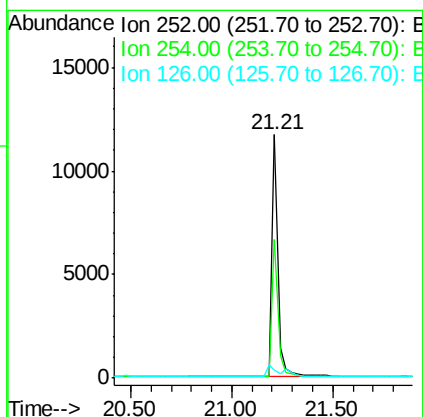
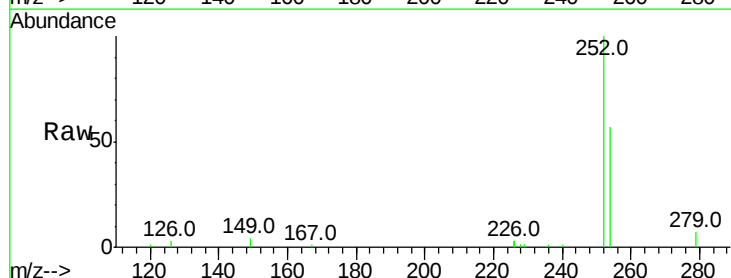
Instrument :
BNA_E
ClientSampleId :

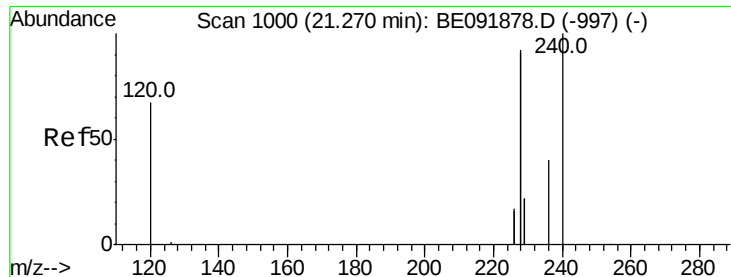
Tot Ion:228 Resp: 1061931
Ion Ratio Lower Upper
228 100
226 20.3 21.0 31.4#
229 22.4 15.8 23.8



#36
3,3'-Dichlorobenzidine
Concen: 2.31 ng
RT: 21.21 min Scan# 998
Delta R.T. -0.00 min
Lab File: BE091889.D
Acq: 7 Jun 2016 23:28

Tgt Ion:252 Resp: 24226
Ion Ratio Lower Upper
252 100
254 56.8 61.5 92.3#
126 3.3 2.5 3.7





#37

Chrysene

Concen: 7.92 ng

RT: 21.27 min Scan# 1000

Delta R.T. -0.06 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

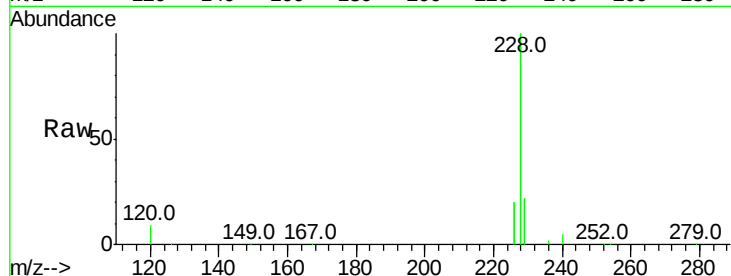
Tot Ion:228 Resp: 1070147

Ion Ratio Lower Upper

228 100

226 20.3 27.0 40.6#

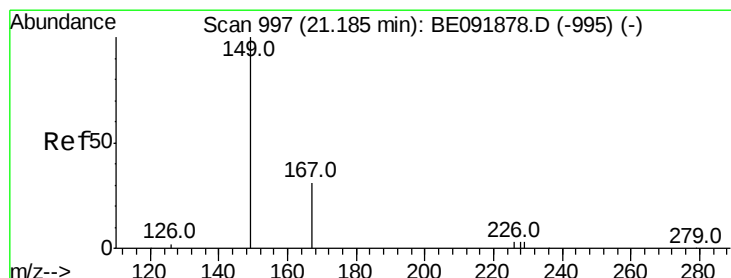
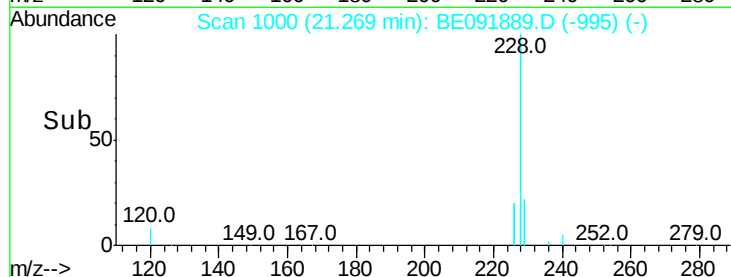
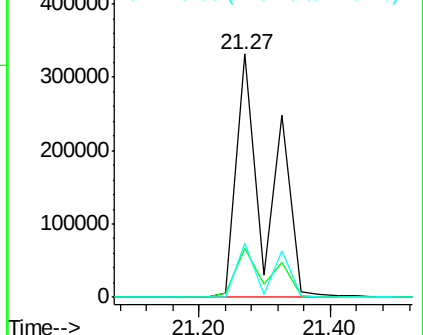
229 22.4 13.8 20.8#



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: 2.88 ng

RT: 21.18 min Scan# 997

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

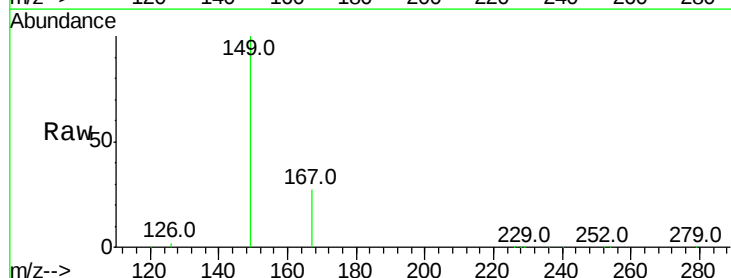
Tgt Ion:149 Resp: 68974

Ion Ratio Lower Upper

149 100

167 27.0 0.0 0.0#

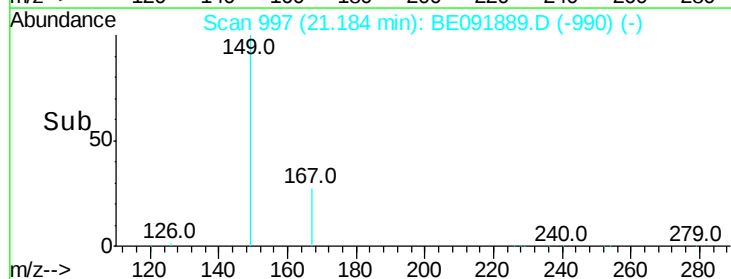
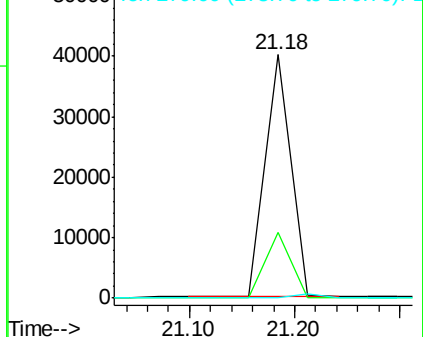
279 0.0 0.0 0.0

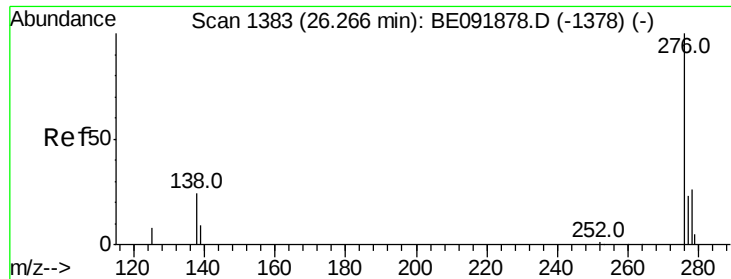


Abundance Ion 149.00 (148.70 to 149.70): E

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: Below Cal

RT: 26.29 min Scan# 1384

Delta R.T. 0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

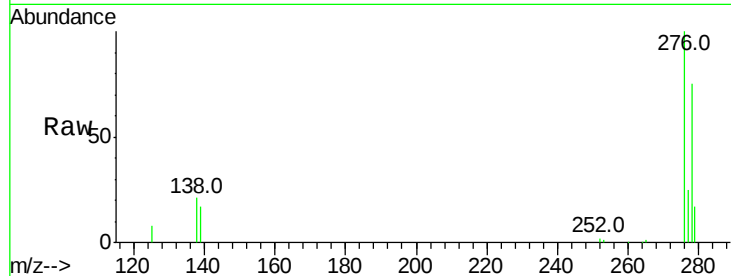
Tot Ion:276 Resp: 165653

Ion Ratio Lower Upper

276 100

138 0.0 19.7 29.5#

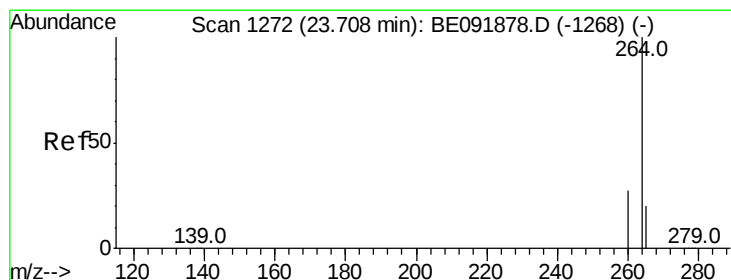
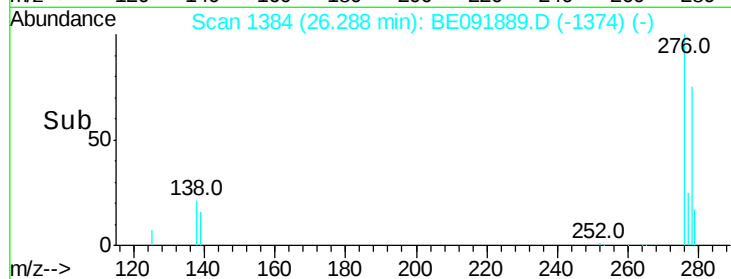
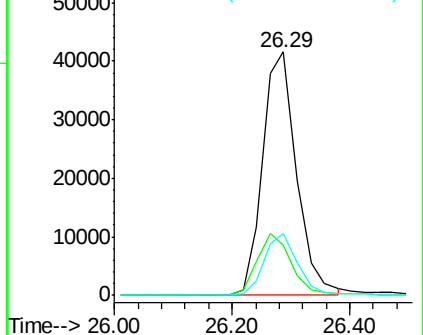
277 24.7 20.1 30.1



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: 23.73 min Scan# 1273

Delta R.T. 0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

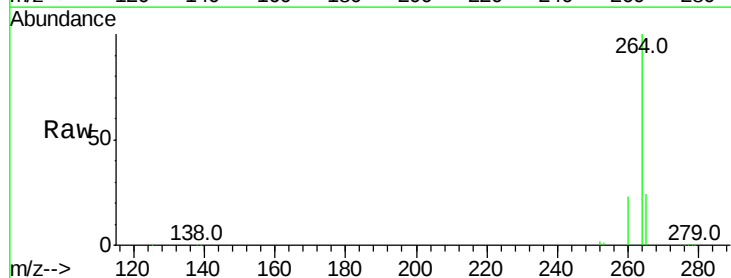
Tgt Ion:264 Resp: 165818

Ion Ratio Lower Upper

264 100

260 22.6 20.3 30.5

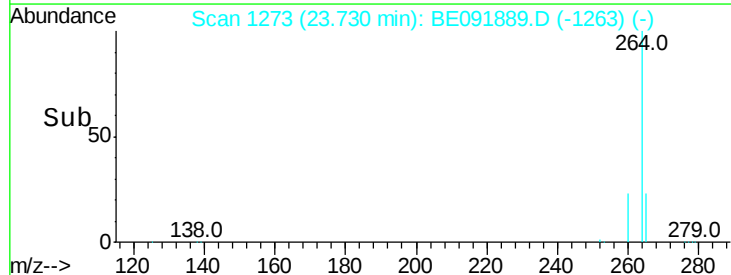
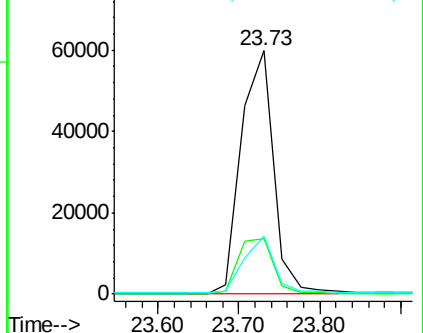
265 24.0 17.6 26.4

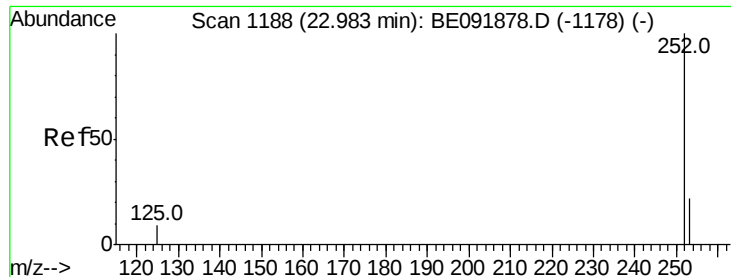


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#41

Benzo(b)fluoranthene

Concen: 3.33 ng

RT: 22.98 min Scan# 1188

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

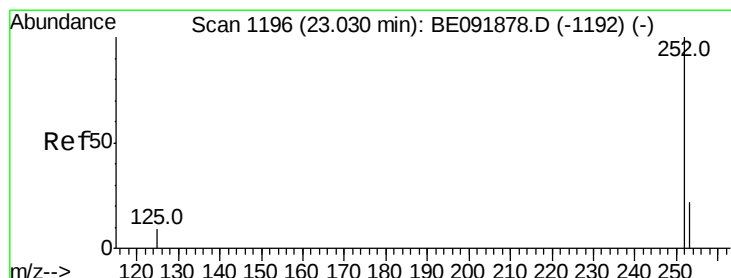
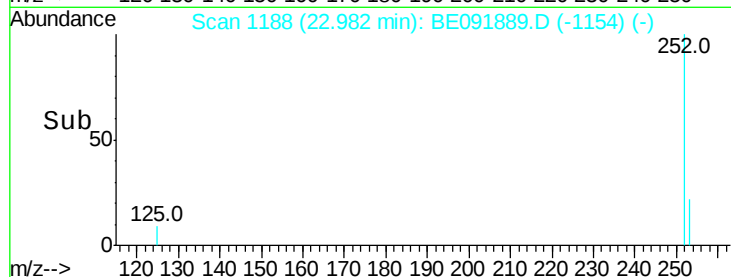
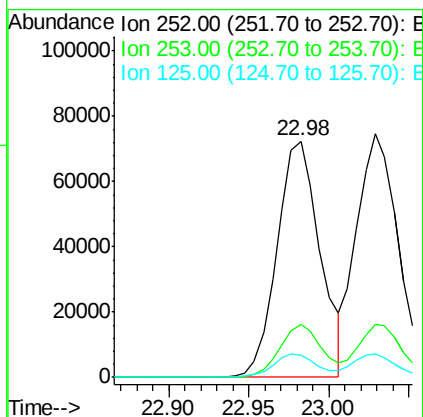
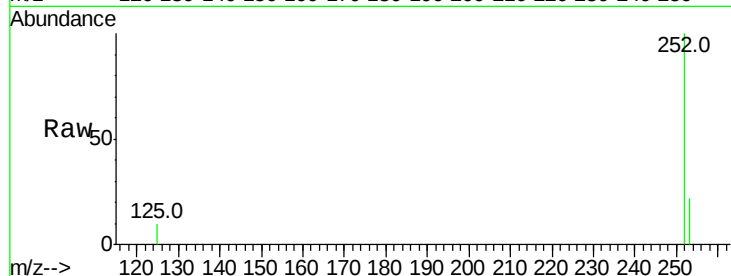
Tot Ion:252 Resp: 134839

Ion Ratio Lower Upper

252 100

253 22.2 17.8 26.6

125 9.5 9.4 14.2



#42

Benzo(k)fluoranthene

Concen: 3.35 ng

RT: 23.03 min Scan# 1196

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

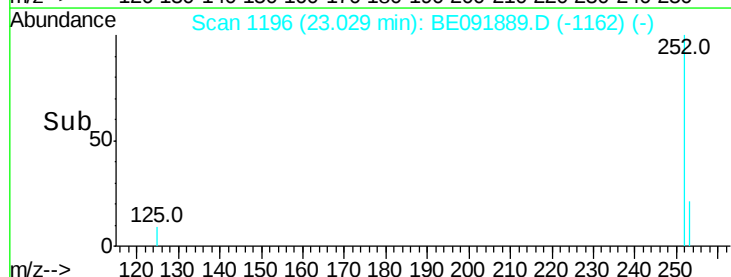
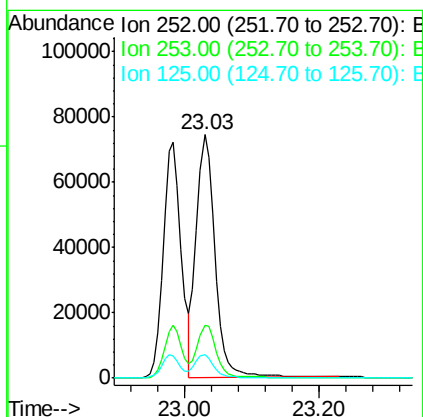
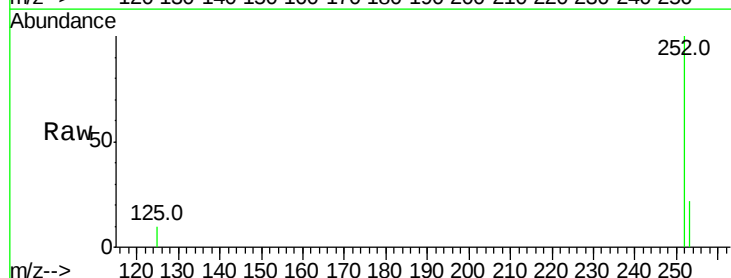
Tgt Ion:252 Resp: 140814

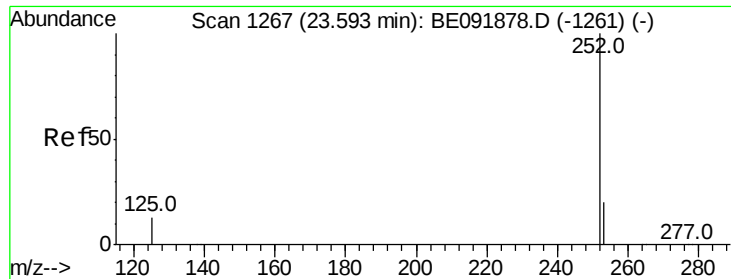
Ion Ratio Lower Upper

252 100

253 21.6 19.4 29.2

125 9.7 8.3 12.5





#43

Benzo(a)pyrene

Concen: 3.39 ng

RT: 23.61 min Scan# 1268

Delta R.T. 0.02 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

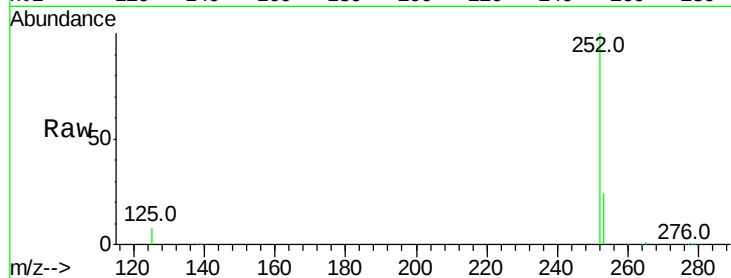
Tot Ion:252 Resp: 128920

Ion Ratio Lower Upper

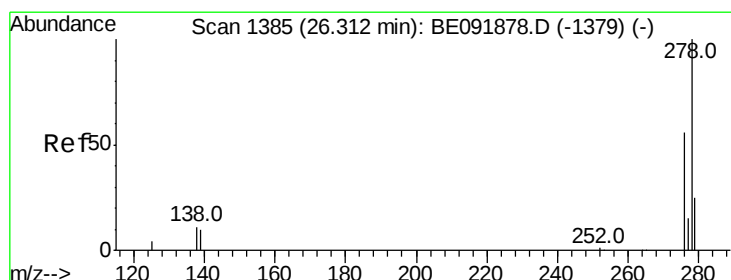
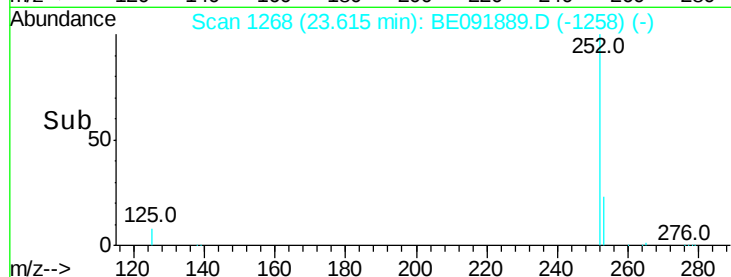
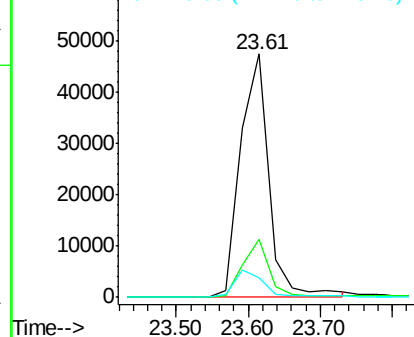
252 100

253 23.7 18.9 28.3

125 7.9 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: 3.92 ng

RT: 26.31 min Scan# 1385

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

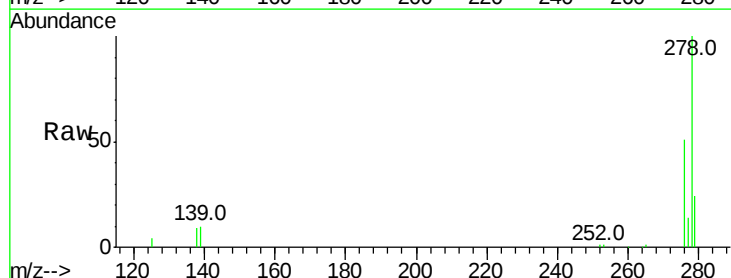
Tgt Ion:278 Resp: 138807

Ion Ratio Lower Upper

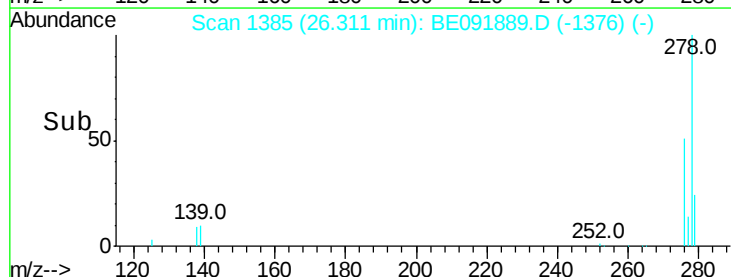
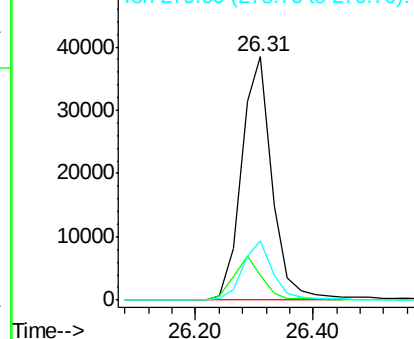
278 100

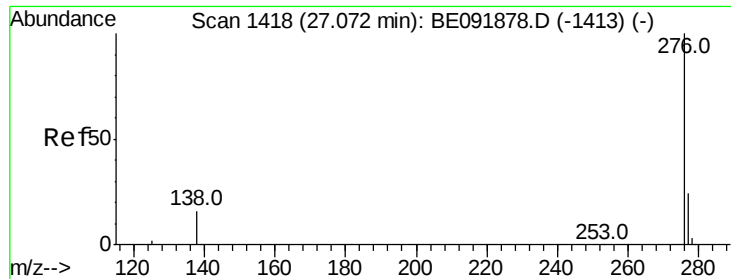
139 10.1 12.6 18.8#

279 24.2 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: 3.89 ng

RT: 27.07 min Scan# 1418

Delta R.T. -0.00 min

Lab File: BE091889.D

Acq: 7 Jun 2016 23:28

Instrument :

BNA_E

ClientSampleId :

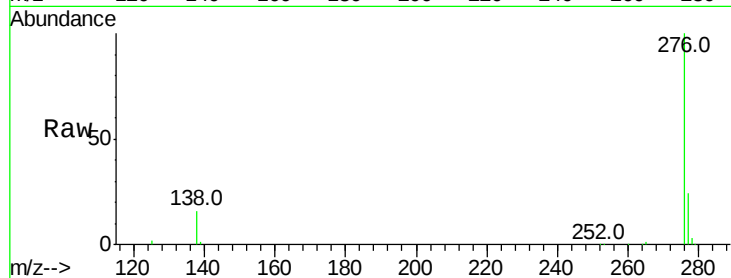
Tot Ion: 276 Resp: 144481

Ion Ratio Lower Upper

276 100

277 24.3 19.5 29.3

138 15.8 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

