

Data Path : V:\HPCHEM1\BNA E\DATA\BE070916\  
 Data File : BE091991.D  
 Acq On : 9 Jul 2016 10:19  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Jul 11 04:38:01 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE070516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jul 05 16:14:58 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.20  | 152  | 22527    | 5.00 | ng    | 0.00     |
| 8) Naphthalene-d8         | 10.99 | 136  | 105645   | 5.00 | ng    | 0.00     |
| 15) Acenaphthene-d10      | 14.86 | 164  | 74883    | 5.00 | ng    | 0.00     |
| 24) Phenanthrene-d10      | 17.60 | 188  | 165228   | 5.00 | ng    | 0.00     |
| 31) Chrysene-d12          | 21.76 | 240  | 296581   | 5.00 | ng    | 0.00     |
| 40) Perylene-d12          | 24.17 | 264  | 211111   | 5.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.72  | 112  | 1759     | 0.33 | ng    | 0.00     |
| 5) Phenol-d6                | 7.37  | 99   | 2451     | 0.33 | ng    | 0.00     |
| 9) Nitrobenzene-d5          | 9.36  | 82   | 2522     | 0.35 | ng    | -0.02    |
| 16) 2,4,6-Tribromophenol    | 16.35 | 330  | 666      | 0.39 | ng    | 0.00     |
| 17) 2-Fluorobiphenyl        | 13.49 | 172  | 7432     | 0.41 | ng    | 0.00     |
| 34) Terphenyl-d14           | 20.22 | 244  | 12262    | 0.35 | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 2) 1,4-Dioxane                 | 3.47  | 88   | 1177     | 0.39 | ng    | 92     |
| 3) n-Nitrosodimethylamine      | 3.83  | 42   | 1276     | 0.36 | ng    | # 85   |
| 6) bis(2-Chloroethyl)ether     | 7.61  | 93   | 2518     | 0.39 | ng    | 97     |
| 7) n-Nitroso-di-n-propylamine  | 9.00  | 70   | 2082     | 0.33 | ng    | # 97   |
| 10) Nitrobenzene               | 9.42  | 77   | 2709     | 0.35 | ng    | # 100  |
| 11) bis(2-Chloroethoxy)methane | 10.42 | 93   | 3183     | 0.36 | ng    | # 1    |
| 12) Naphthalene                | 11.04 | 128  | 9577     | 0.39 | ng    | 96     |
| 13) Hexachlorobutadiene        | 11.34 | 225  | 1419     | 0.38 | ng    | 97     |
| 14) 2-Methylnaphthalene        | 12.68 | 142  | 5912     | 0.37 | ng    | 99     |
| 18) Acenaphthylene             | 14.56 | 152  | 37486    | 0.40 | ng    | # 72   |
| 19) 2,6-Dinitrotoluene         | 14.44 | 165  | 5792     | 0.39 | ng    | # 41   |
| 20) Acenaphthene               | 14.92 | 154  | 7607     | 0.37 | ng    | # 1    |
| 21) 2,4-Dinitrotoluene         | 15.25 | 165  | 7484     | 0.52 | ng    | # 1    |
| 22) Fluorene                   | 15.90 | 166  | 8593     | 0.40 | ng    | 100    |
| 23) 4-Chlorophenyl-phenylether | 15.90 | 204  | 4348     | 0.40 | ng    | 97     |
| 25) 4-Bromophenyl-phenylether  | 16.78 | 248  | 2586     | 0.36 | ng    | 96     |
| 26) Hexachlorobenzene          | 16.90 | 284  | 2805     | 0.39 | ng    | 99     |
| 27) Pentachlorophenol          | 17.27 | 266  | 841      | 0.45 | ng    | 96     |
| 28) Phenanthrene               | 17.64 | 178  | 16836    | 0.39 | ng    | 100    |
| 29) Anthracene                 | 17.73 | 178  | 14799    | 0.37 | ng    | 100    |
| 30) Fluoranthene               | 19.65 | 202  | 69171    | 0.37 | ng    | # 87   |
| 32) Benzidine                  | 19.83 | 184  | 6037     | 0.46 | ng    | 96     |
| 33) Pyrene                     | 20.02 | 202  | 71214    | 0.33 | ng    | # 80   |
| 35) Benzo(a)anthracene         | 21.73 | 228  | 18287m   | 0.37 | ng    |        |
| 36) 3,3'-Dichlorobenzidine     | 21.70 | 252  | 3691     | 0.22 | ng    | # 99   |
| 37) Chrysene                   | 21.78 | 228  | 28104m   | 0.40 | ng    |        |
| 38) Bis(2-ethylhexyl)phthalate | 21.64 | 149  | 13943    | 0.24 | ng    | # 100  |
| 39) Indeno(1,2,3-cd)pyrene     | 26.69 | 276  | 87594    | 0.32 | ng    | 98     |
| 41) Benzo(b)fluoranthene       | 23.43 | 252  | 22515    | 0.39 | ng    | 96     |
| 42) Benzo(k)fluoranthene       | 23.48 | 252  | 19905    | 0.35 | ng    | 98     |
| 43) Benzo(a)pyrene             | 24.06 | 252  | 19535    | 0.35 | ng    | 99     |
| 44) Dibenzo(a,h)anthracene     | 26.72 | 278  | 18003    | 0.35 | ng    | 99     |
| 45) Benzo(a,h,i)perylene       | 27.47 | 276  | 72633    | 0.34 | ng    | 99     |

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Quant Time: Jul 11 04:38:01 2016  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE070516.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jul 05 16:14:58 2016  
Response via : Initial Calibration

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

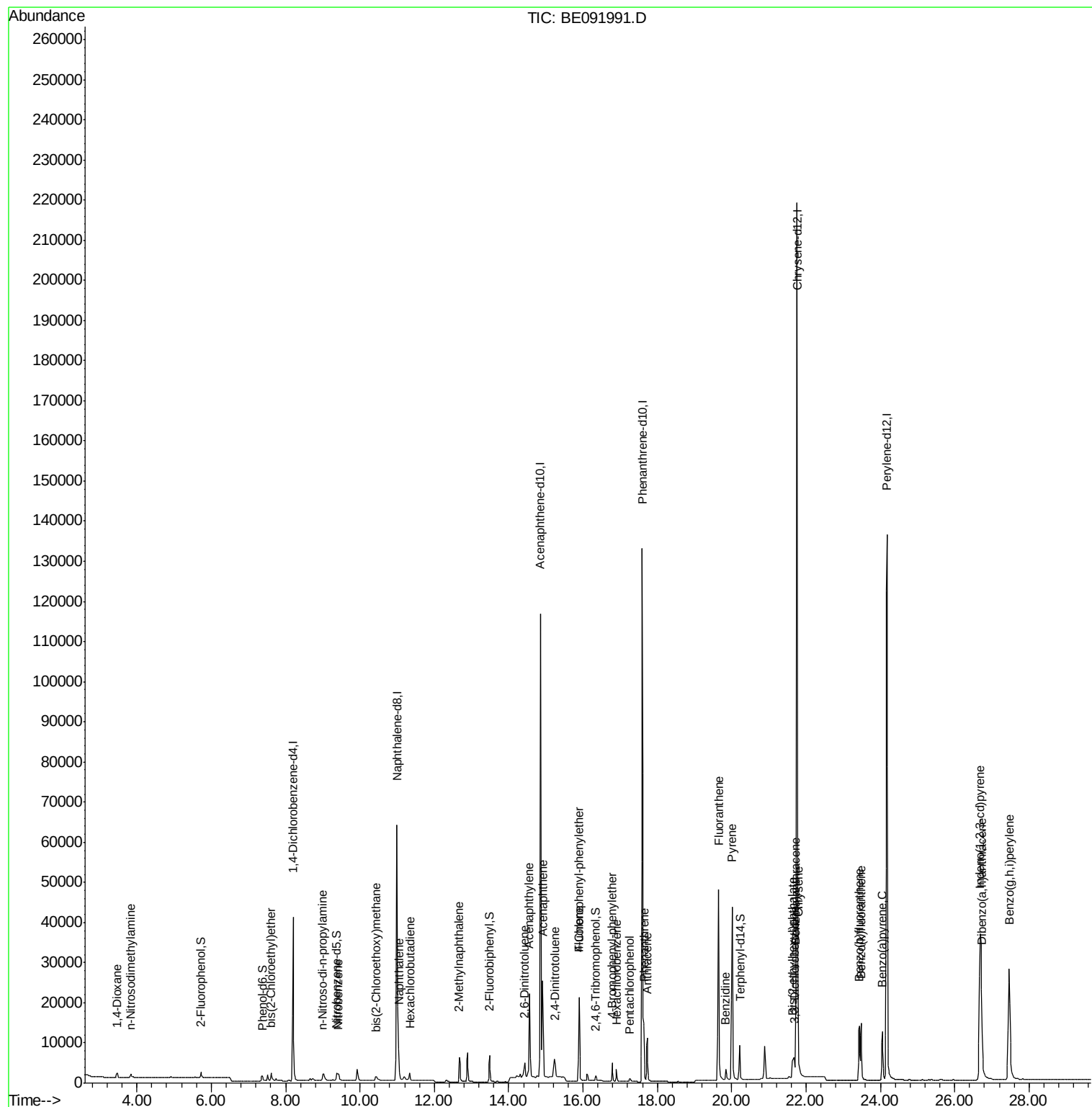
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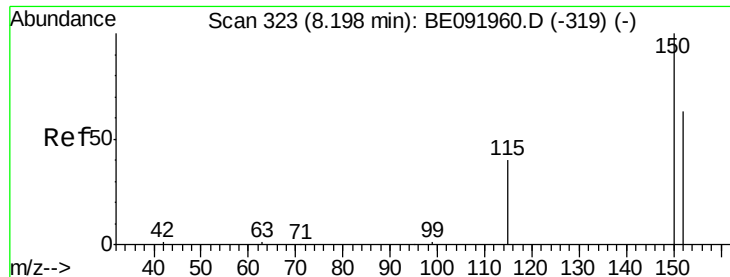
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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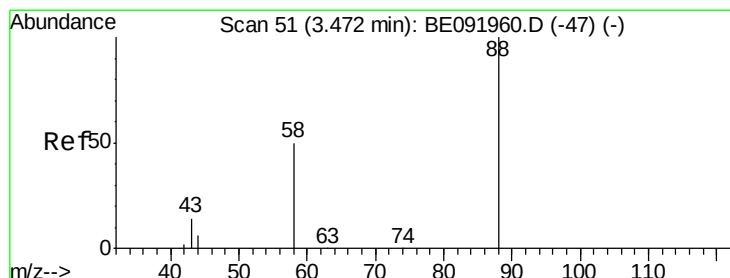
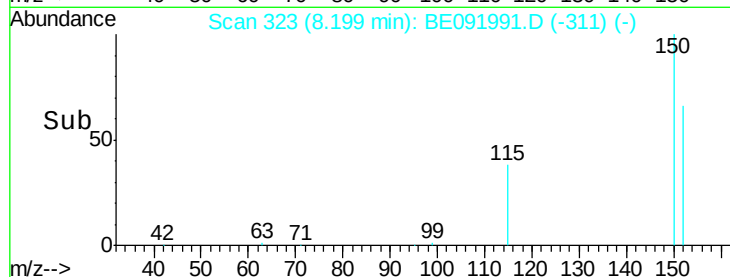
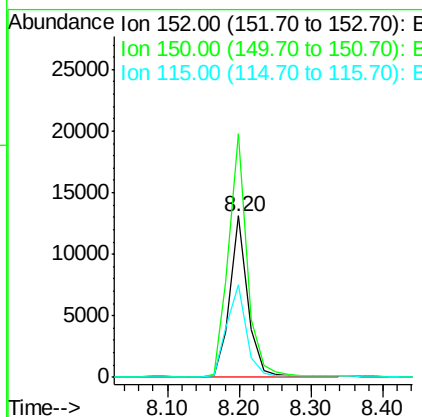
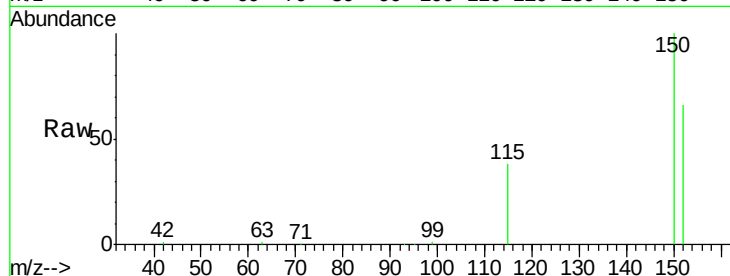


#1

1,4-Dichlorobenzene-d4  
Concen: 5.00 ng  
RT: 8.20 min Scan# 323  
Delta R.T. 0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4

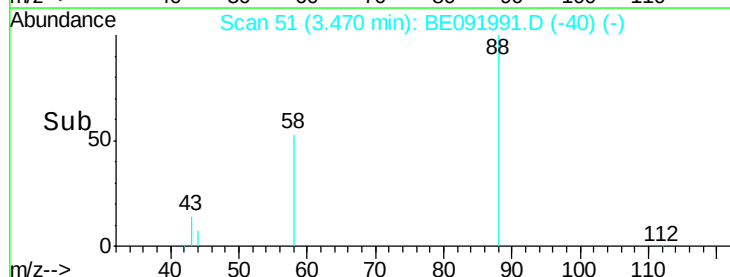
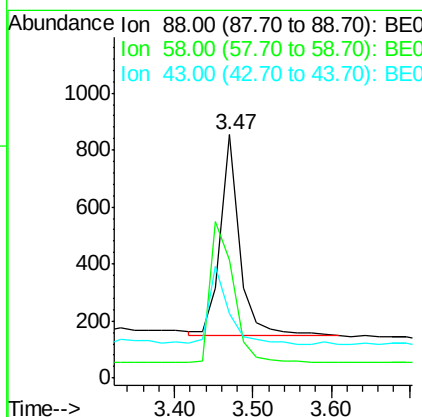
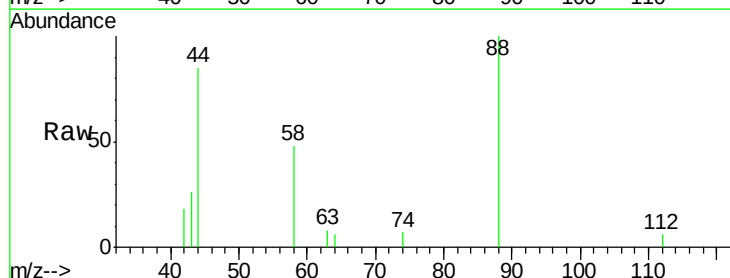
Tot Ion:152 Resp: 22527  
Ion Ratio Lower Upper  
152 100  
150 150.8 123.9 185.9  
115 57.4 48.3 72.5

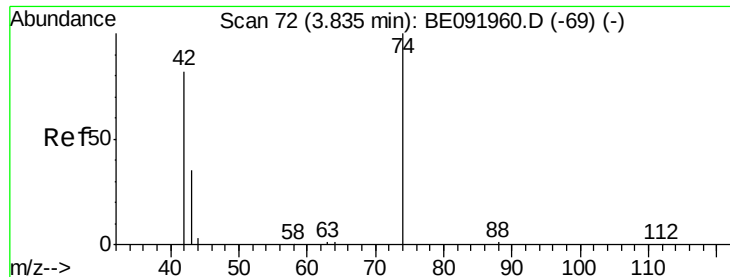


#2

1,4-Dioxane  
Concen: 0.39 ng  
RT: 3.47 min Scan# 51  
Delta R.T. -0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

Tgt Ion: 88 Resp: 1177  
Ion Ratio Lower Upper  
88 100  
58 87.4 63.0 94.4  
43 39.5 29.1 43.7





#3

n-Nitrosodimethylamine

Concen: 0.36 ng

RT: 3.83 min Scan# 72

Delta R.T. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

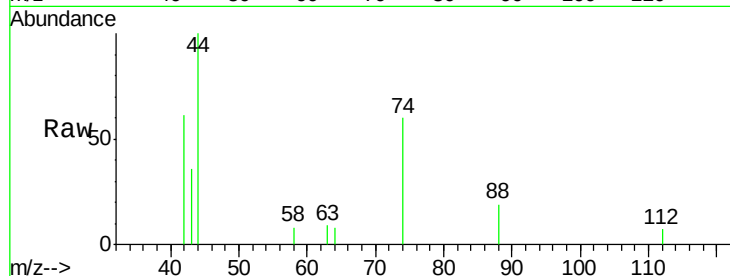
Tot Ion: 42 Resp: 1276

Ion Ratio Lower Upper

42 100

74 100.2 93.4 140.0

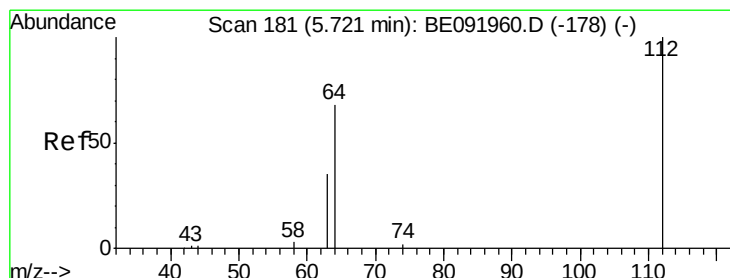
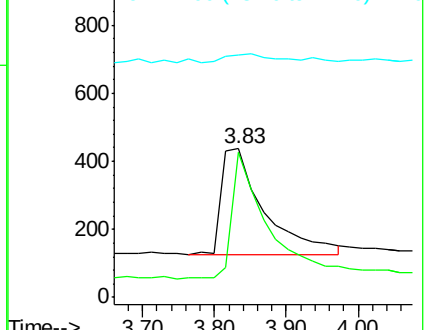
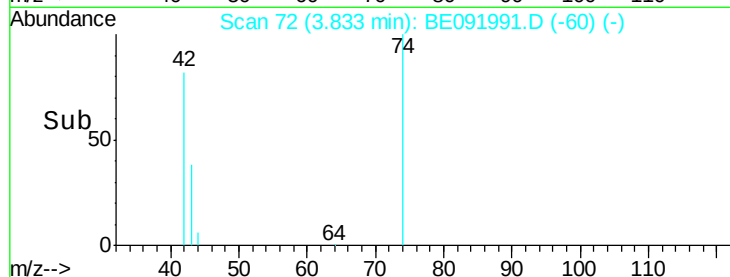
44 8.7 5.0 7.6#



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: 0.33 ng

RT: 5.72 min Scan# 181

Delta R.T. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

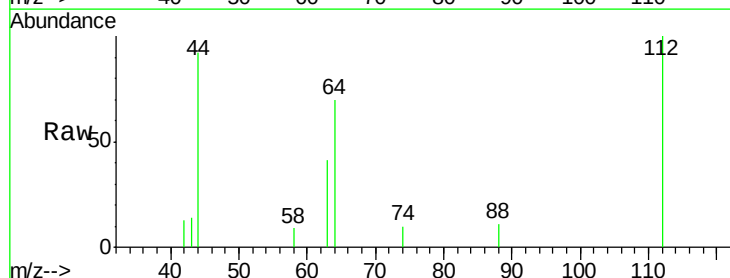
Tgt Ion: 112 Resp: 1759

Ion Ratio Lower Upper

112 100

64 68.2 53.7 80.5

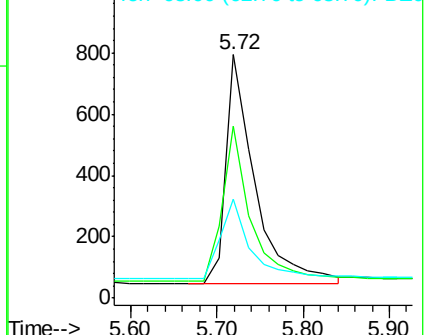
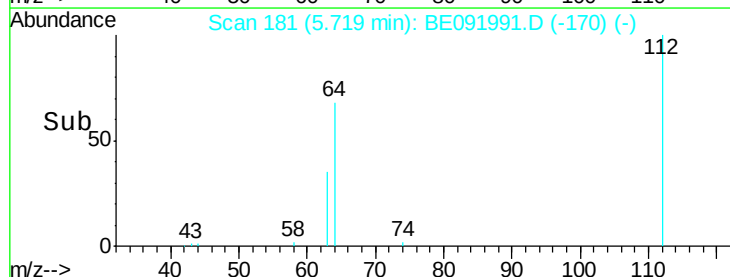
63 37.1 29.5 44.3

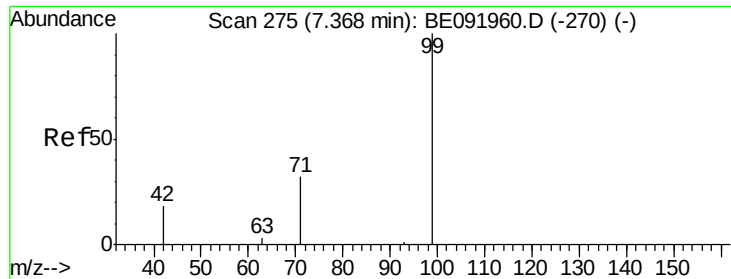


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 0.33 ng

RT: 7.37 min Scan# 275

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

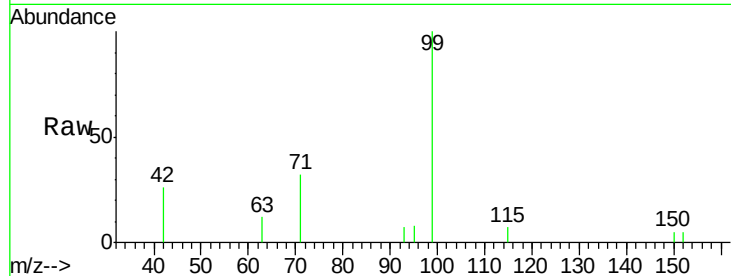
Tot Ion: 99 Resp: 2451

Ion Ratio Lower Upper

99 100

42 26.5 19.6 29.4

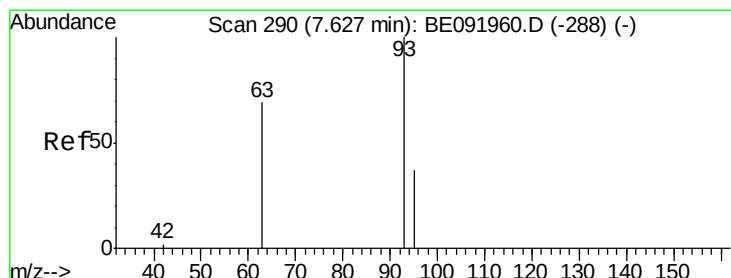
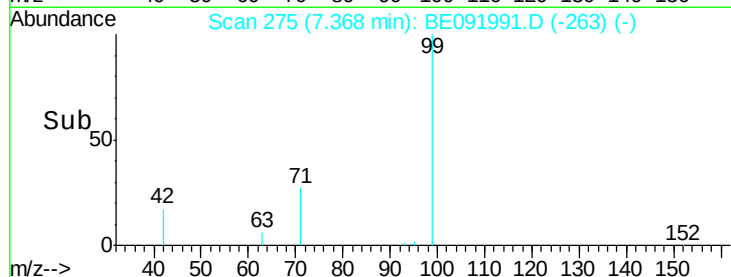
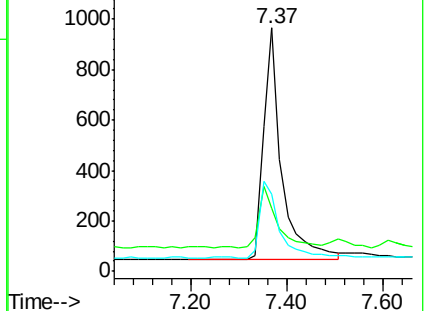
71 35.5 28.1 42.1



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.39 ng

RT: 7.61 min Scan# 289

Delta R.T. -0.02 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

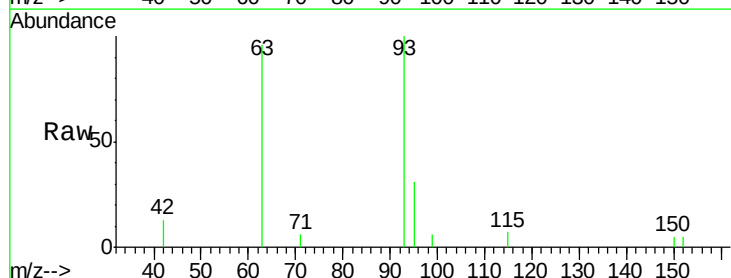
Tgt Ion: 93 Resp: 2518

Ion Ratio Lower Upper

93 100

63 78.8 66.2 99.4

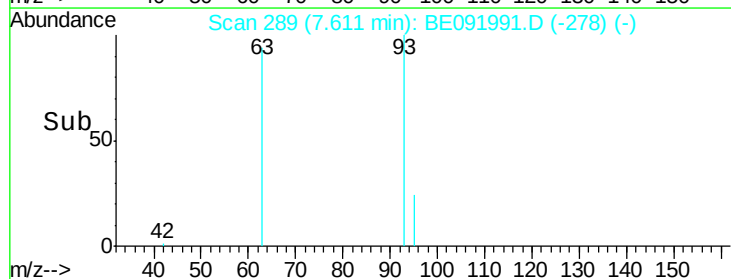
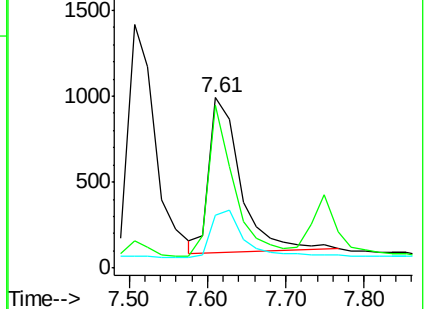
95 32.4 25.5 38.3

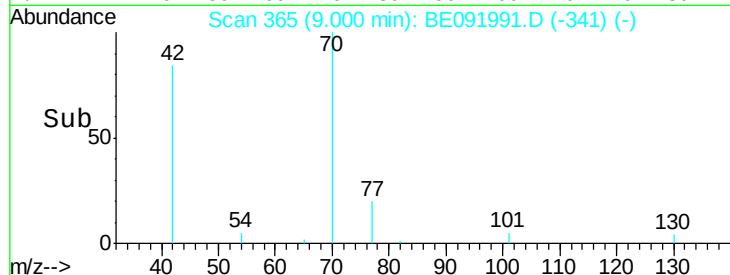
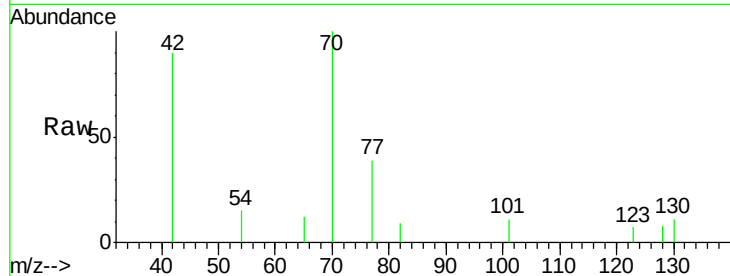
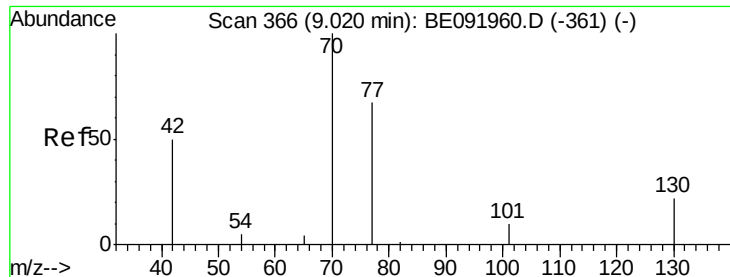


Abundance Ion 93.00 (92.70 to 93.70): BE0

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: 0.33 ng

RT: 9.00 min Scan# 365

Delta R.T. -0.02 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

Tot Ion: 70 Resp: 2082

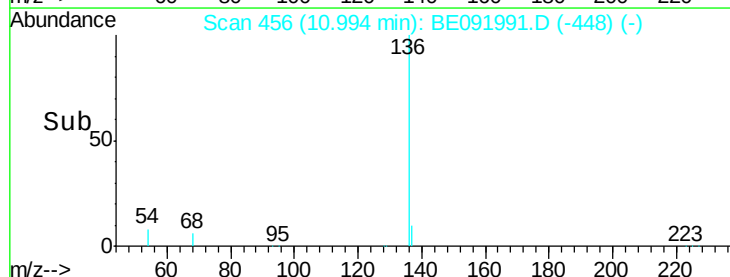
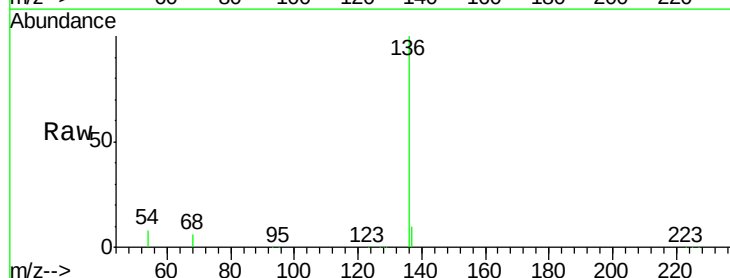
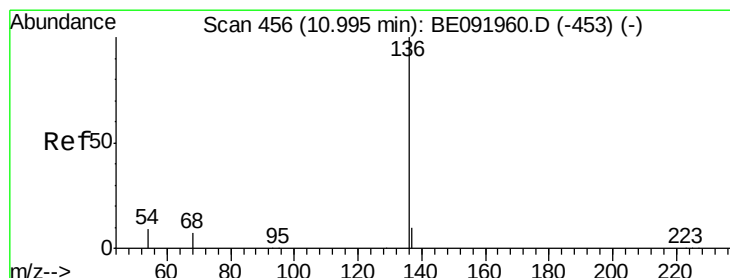
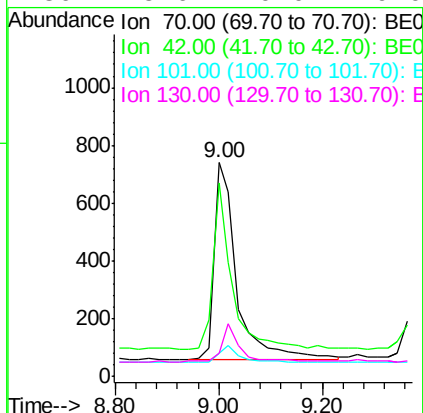
Ion Ratio Lower Upper

70 100

42 70.6 58.4 87.6

101 8.4 6.4 9.6

130 15.6 0.0 0.0#



#8

Naphthalene-d8

Concen: 5.00 ng

RT: 10.99 min Scan# 456

Delta R.T. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Tgt Ion: 136 Resp: 105645

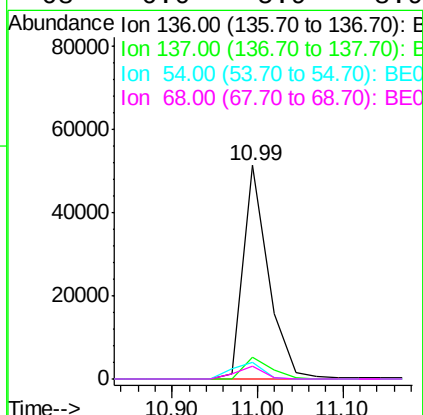
Ion Ratio Lower Upper

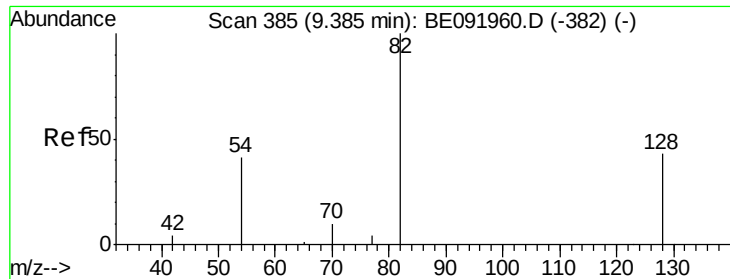
136 100

137 10.2 8.3 12.5

54 7.9 8.2 12.4#

68 6.0 5.9 8.9





#9

Nitrobenzene-d5

Concen: 0.35 ng

RT: 9.36 min Scan# 384

Delta R.T. -0.02 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

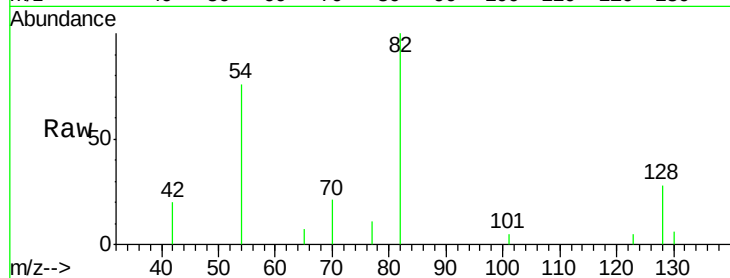
Tot Ion: 82 Resp: 2522

Ion Ratio Lower Upper

82 100

128 27.9 39.5 59.3#

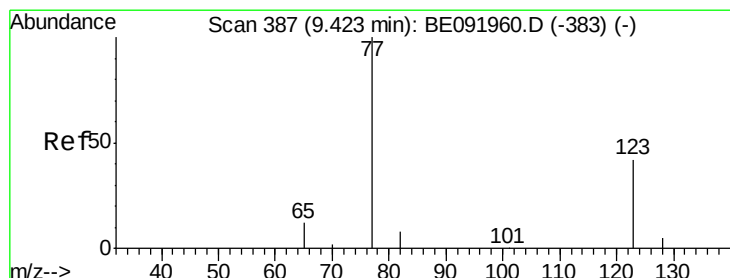
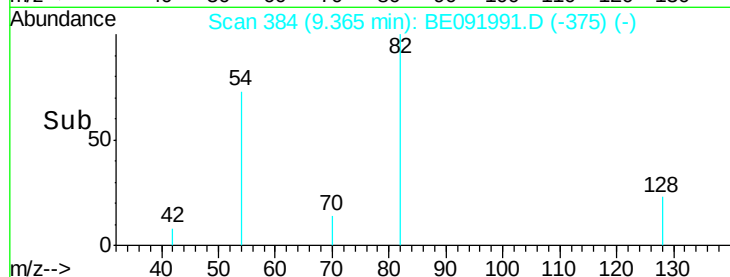
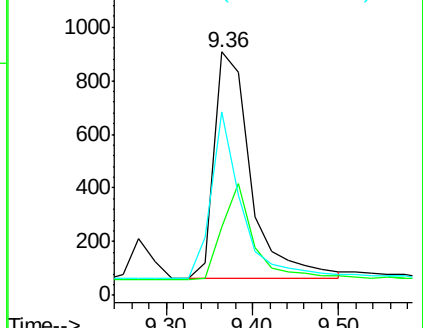
54 75.6 30.3 45.5#



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. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

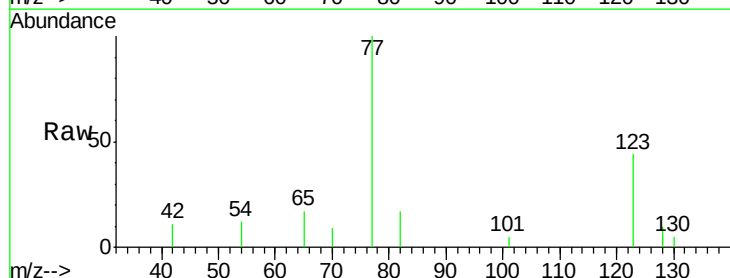
Tgt Ion: 77 Resp: 2709

Ion Ratio Lower Upper

77 100

123 37.7 0.0 0.0#

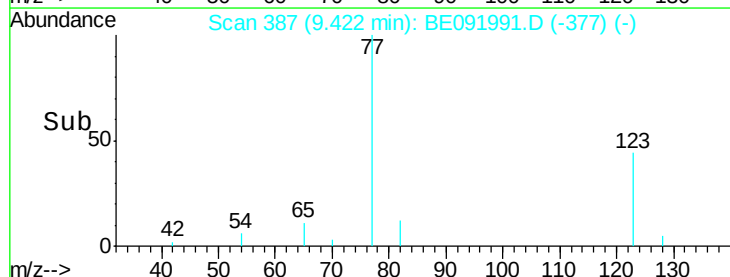
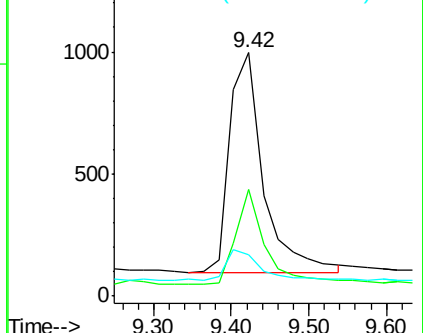
65 13.9 11.1 16.7



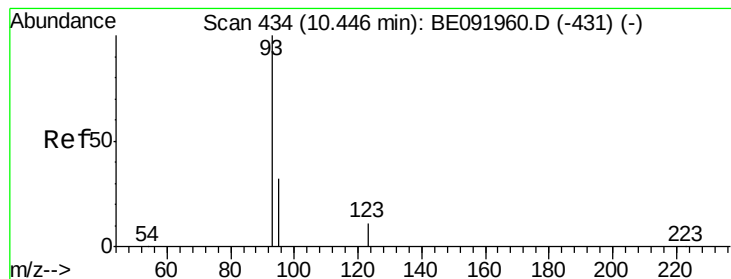
Abundance Ion 77.00 (76.70 to 77.70): BE0

Ion 123.00 (122.70 to 123.70): BE0

Ion 65.00 (64.70 to 65.70): BE0







#11

bis(2-Chloroethoxy)methane

Concen: 0.36 ng

RT: 10.42 min Scan# 433

Delta R.T. -0.03 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

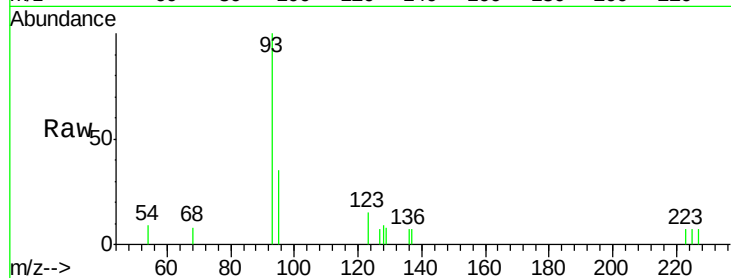
Tot Ion: 93 Resp: 3183

Ion Ratio Lower Upper

93 100

95 0.0 57.6 86.4#

123 0.0 100.2 150.4#

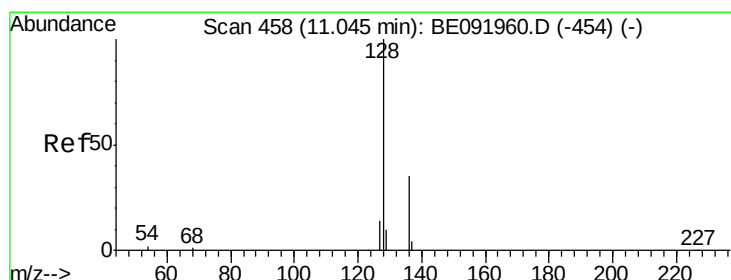
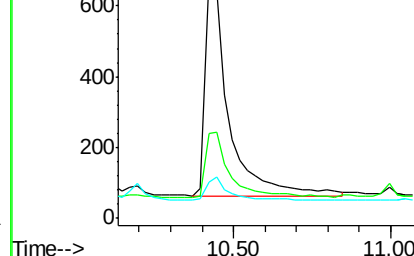
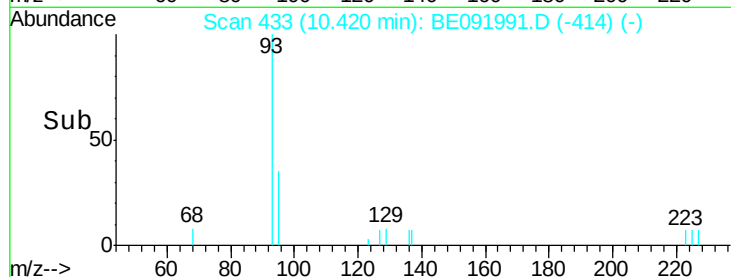


Abundance Ion 93.00 (92.70 to 93.70): BE091960.D (-431) (-)

Ion 95.00 (94.70 to 95.70): BE091960.D (-431) (-)

Ion 123.00 (122.70 to 123.70): BE091960.D (-431) (-)

Time-->



#12

Naphthalene

Concen: 0.39 ng

RT: 11.04 min Scan# 458

Delta R.T. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

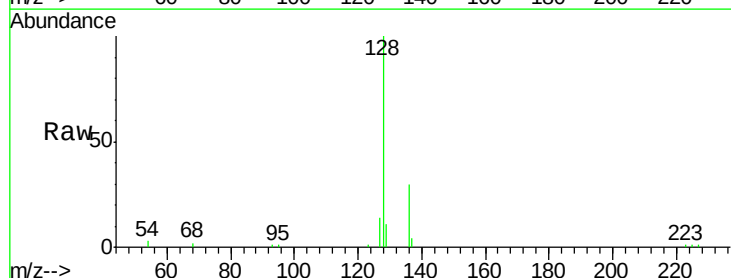
Tgt Ion: 128 Resp: 9577

Ion Ratio Lower Upper

128 100

129 11.4 10.4 15.6

127 14.3 10.2 15.2

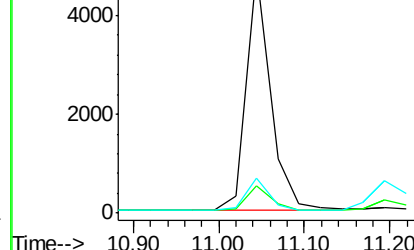
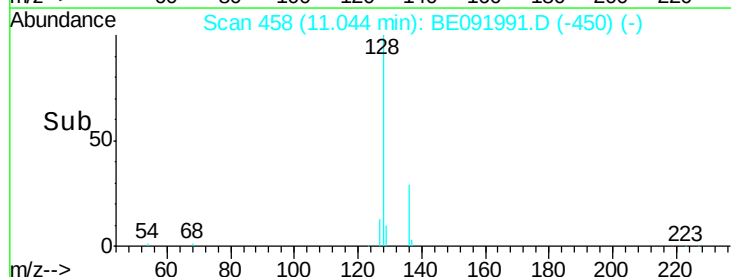


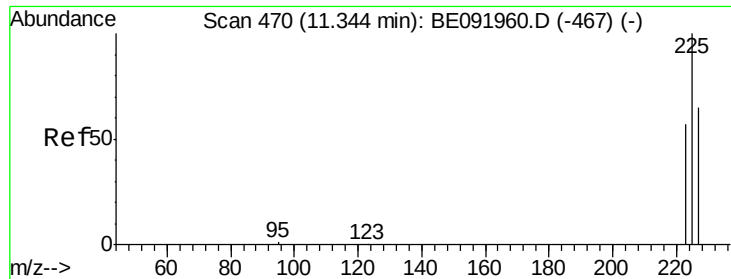
Abundance Ion 128.00 (127.70 to 128.70): BE091960.D (-454) (-)

Ion 129.00 (128.70 to 129.70): BE091960.D (-454) (-)

Ion 127.00 (126.70 to 127.70): BE091960.D (-454) (-)

Time-->

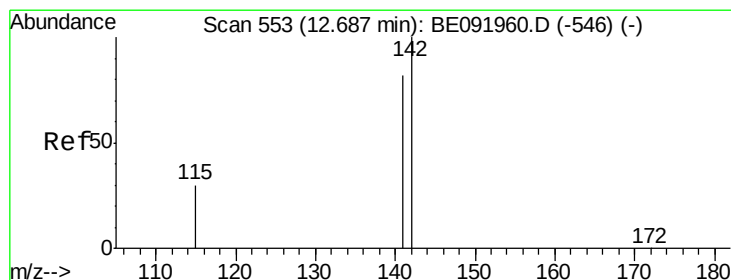
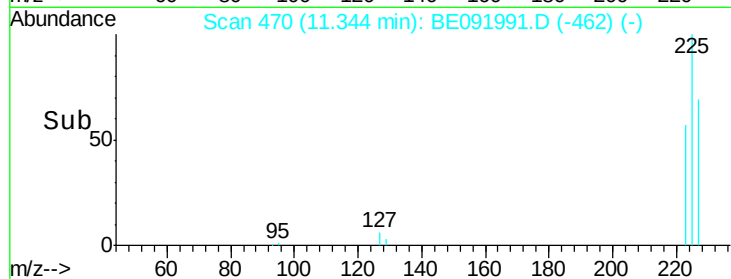
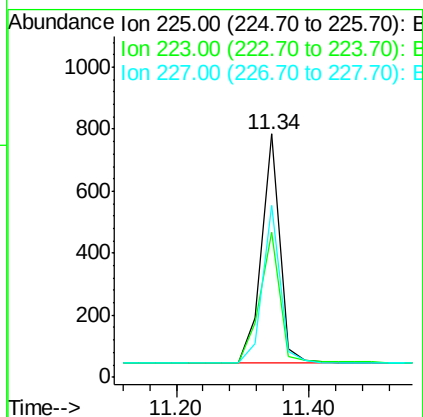
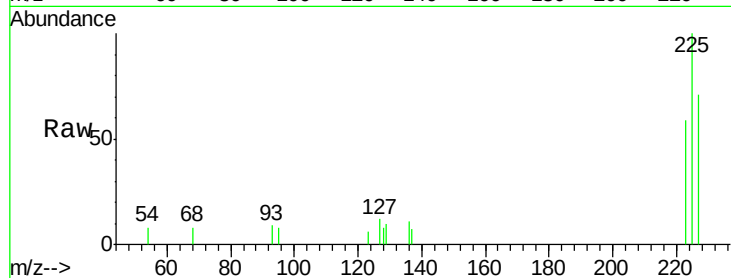




#13  
Hexachlorobutadiene  
Concen: 0.38 ng  
RT: 11.34 min Scan# 470  
Delta R.T. -0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

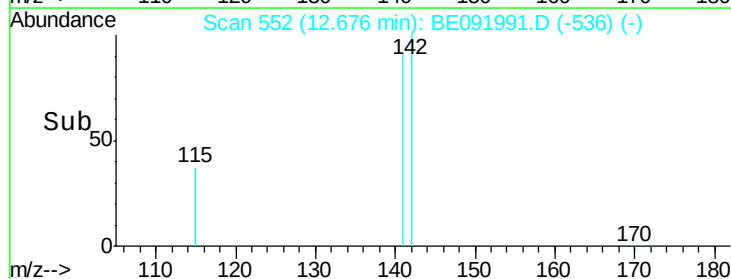
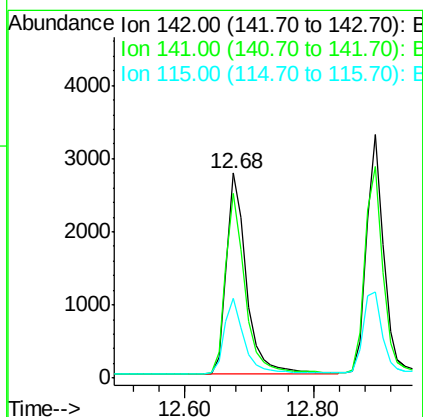
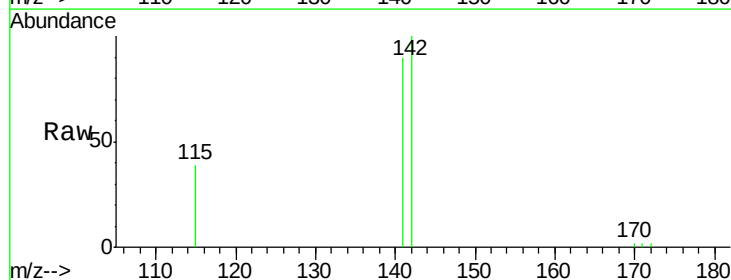
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4

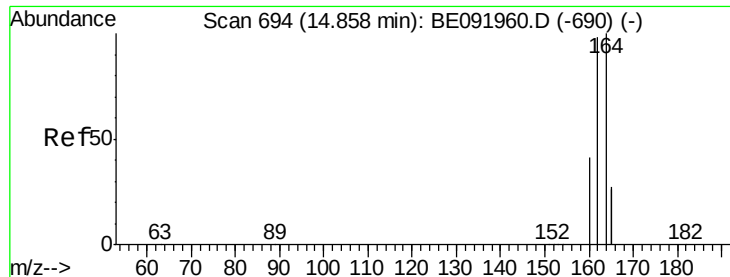
Tot Ion:225 Resp: 1419  
Ion Ratio Lower Upper  
225 100  
223 60.3 49.8 74.8  
227 65.5 50.6 75.8



#14  
2-Methylnaphthalene  
Concen: 0.37 ng  
RT: 12.68 min Scan# 552  
Delta R.T. -0.01 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

Tgt Ion:142 Resp: 5912  
Ion Ratio Lower Upper  
142 100  
141 90.5 71.9 107.9  
115 38.8 29.9 44.9

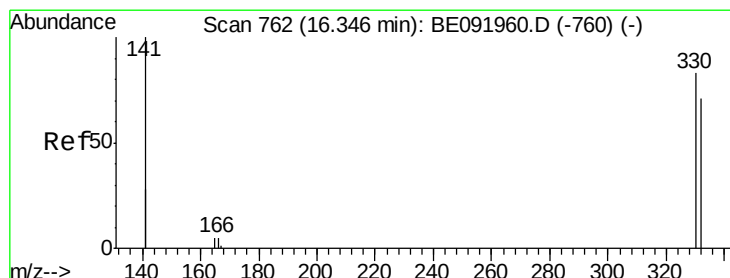
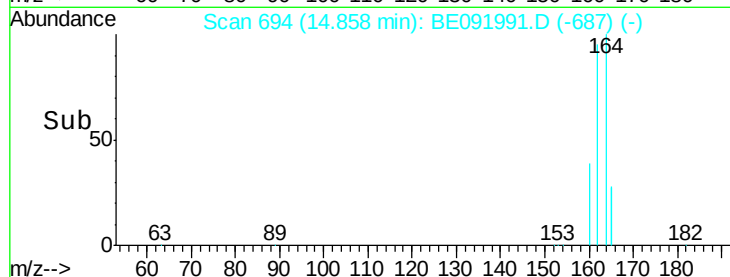
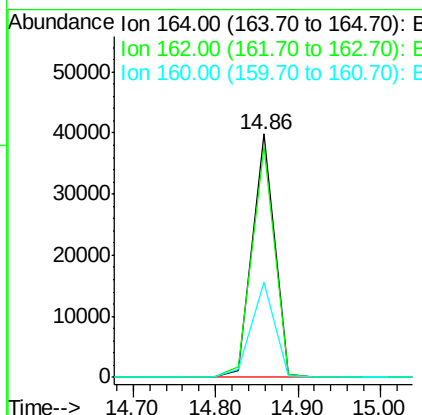
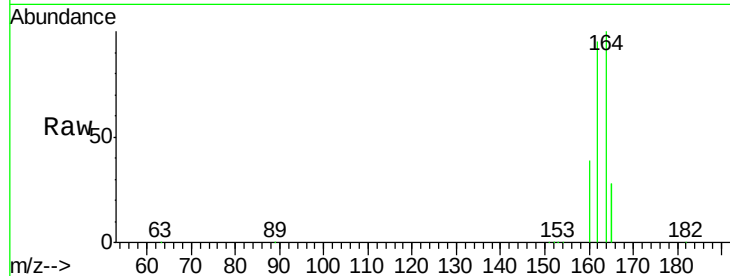




#15  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.86 min Scan# 694  
Delta R.T. 0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

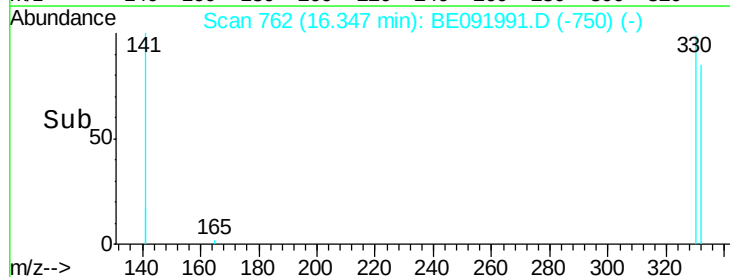
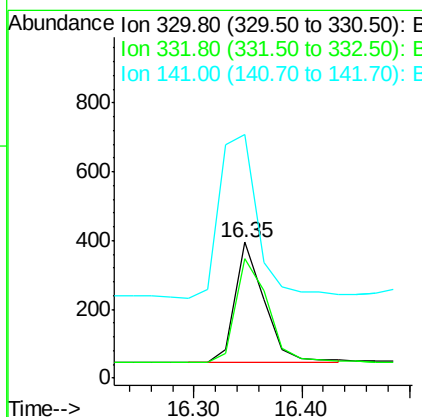
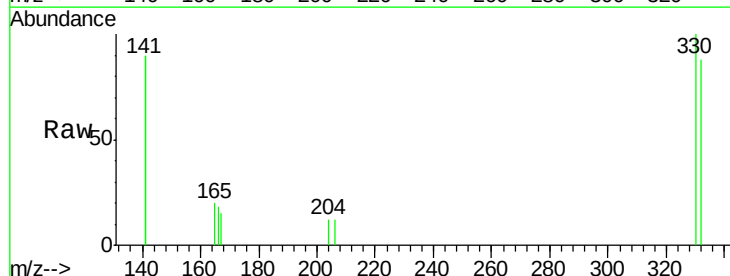
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4

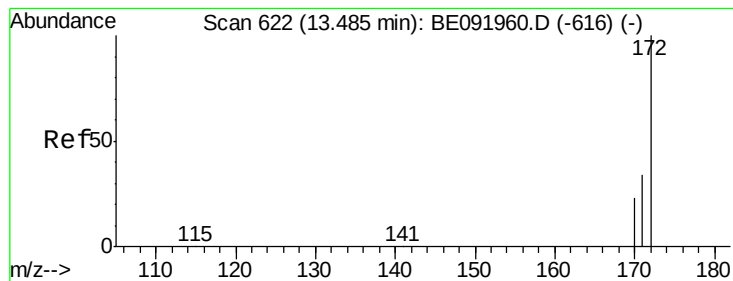
Tot Ion:164 Resp: 74883  
Ion Ratio Lower Upper  
164 100  
162 94.8 71.8 107.8  
160 39.3 28.0 42.0



#16  
2,4,6-Tribromophenol  
Concen: 0.39 ng  
RT: 16.35 min Scan# 762  
Delta R.T. 0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

Tgt Ion:330 Resp: 666  
Ion Ratio Lower Upper  
330 100  
332 94.7 77.0 115.6  
141 177.5 138.4 207.6

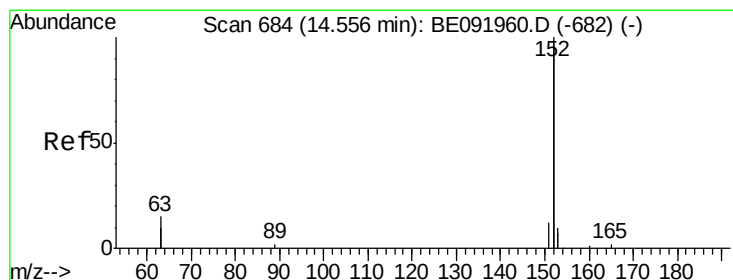
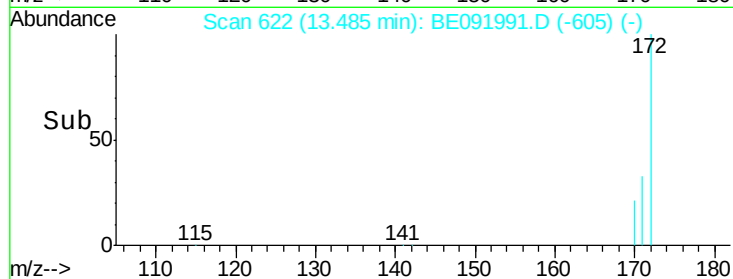
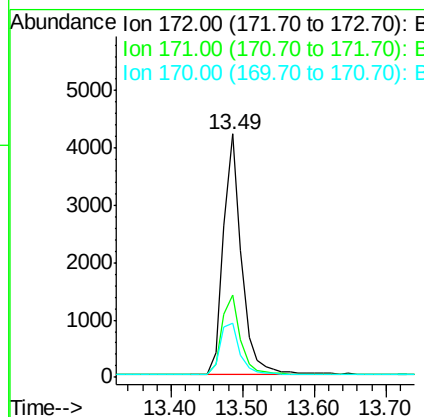
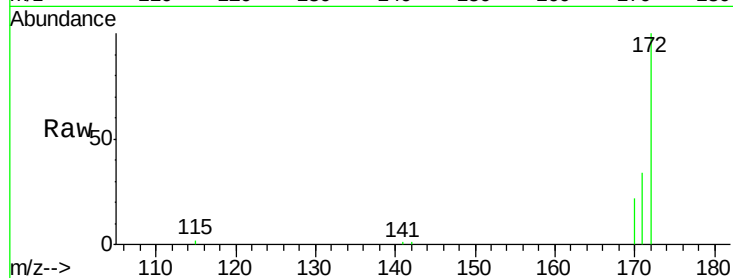




#17  
2-Fluorobiphenyl  
Concen: 0.41 ng  
RT: 13.49 min Scan# 622  
Delta R.T. 0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

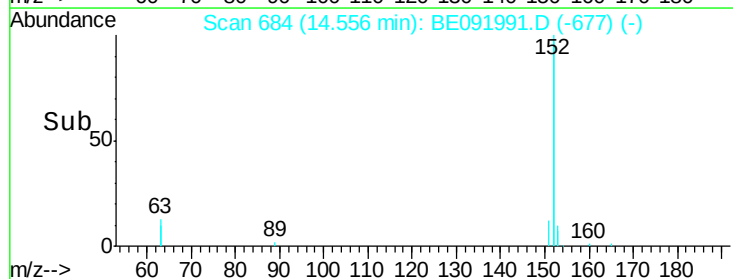
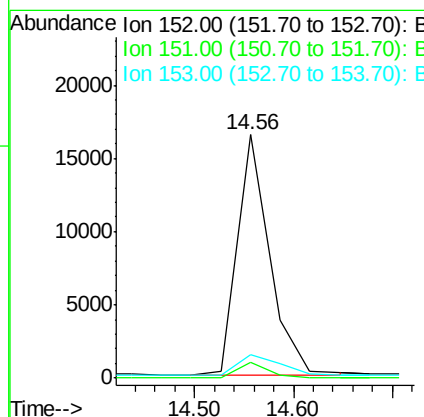
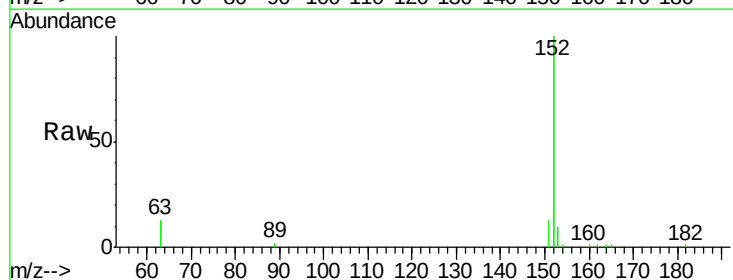
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4

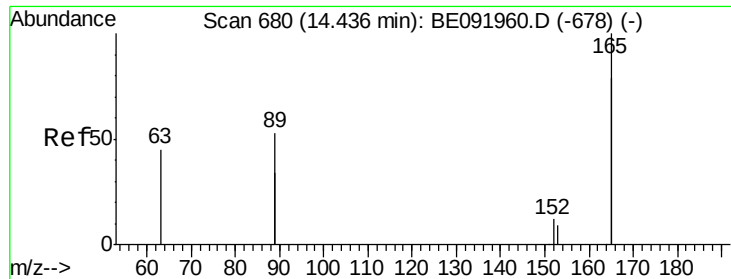
Tot Ion:172 Resp: 7432  
Ion Ratio Lower Upper  
172 100  
171 33.8 24.3 36.5  
170 22.2 14.9 22.3



#18  
Acenaphthylene  
Concen: 0.40 ng  
RT: 14.56 min Scan# 684  
Delta R.T. 0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

Tgt Ion:152 Resp: 37486  
Ion Ratio Lower Upper  
152 100  
151 5.7 19.4 29.2#  
153 11.1 14.4 21.6#

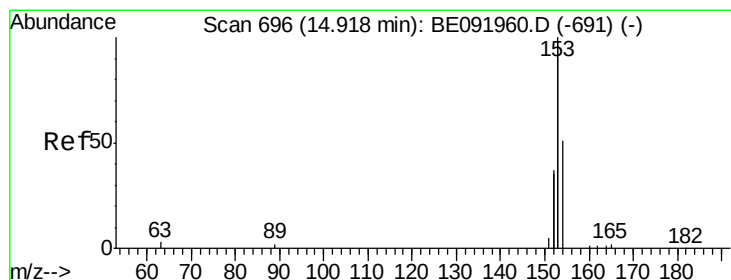
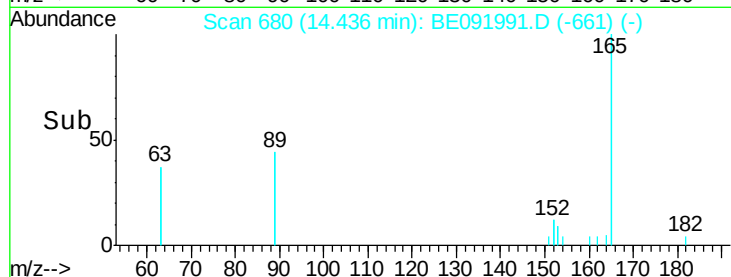
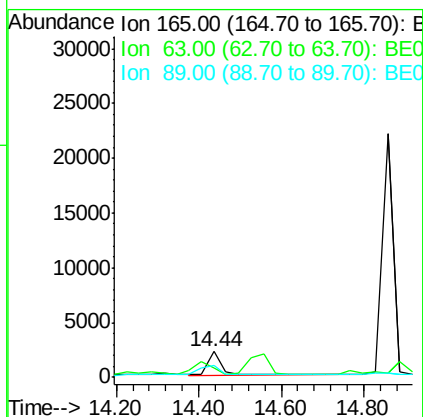
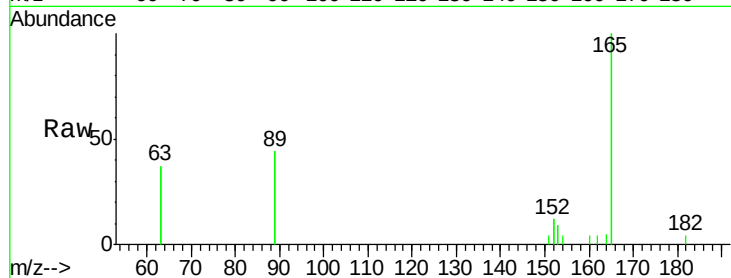




#19  
2,6-Dinitrotoluene  
Concen: 0.39 ng  
RT: 14.44 min Scan# 680  
Delta R.T. 0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

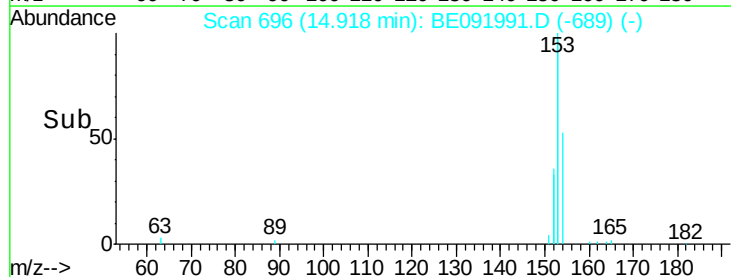
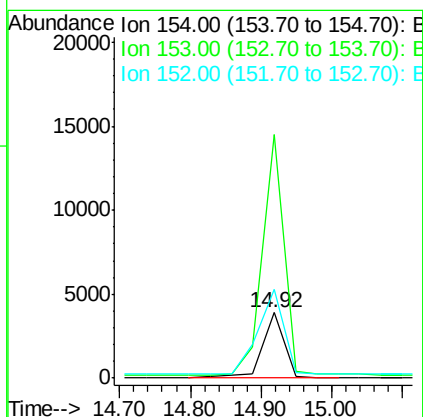
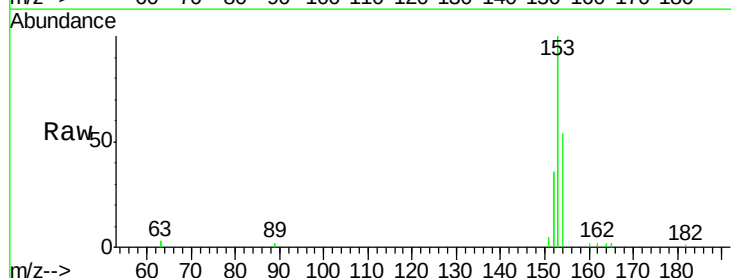
Instrument :  
BNA\_E  
ClientSampleId :  
SSTDCCC0.4

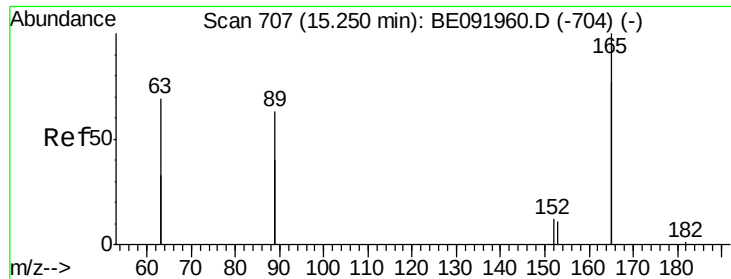
Tot Ion:165 Resp: 5792  
Ion Ratio Lower Upper  
165 100  
63 0.0 65.9 98.9#  
89 55.2 59.1 88.7#



#20  
Acenaphthene  
Concen: 0.37 ng  
RT: 14.92 min Scan# 696  
Delta R.T. 0.00 min  
Lab File: BE091991.D  
Acq: 9 Jul 2016 10:19

Tgt Ion:154 Resp: 7607  
Ion Ratio Lower Upper  
154 100  
153 386.2 88.1 132.1#  
152 166.4 44.2 66.2#





#21

2,4-Dinitrotoluene

Concen: 0.52 ng

RT: 15.25 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

Tot Ion:165 Resp: 7484

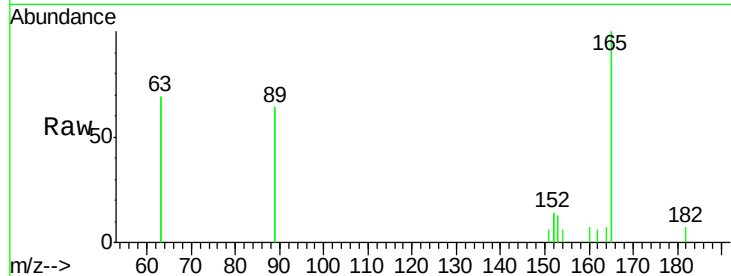
Ion Ratio Lower Upper

165 100

63 0.0 0.0 0.0

89 0.0 99.8 149.8#

182 0.0 0.0 0.0

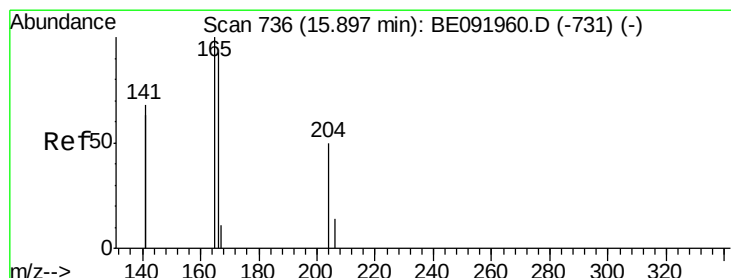
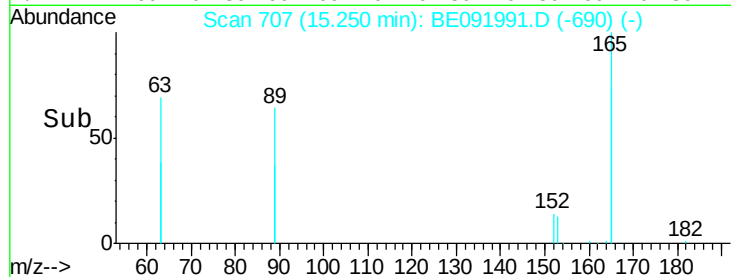
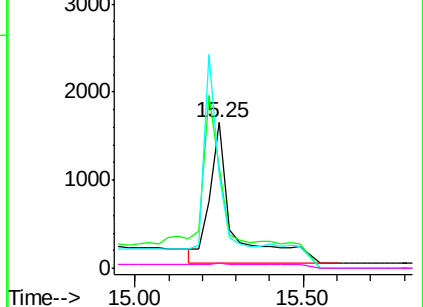


Abundance Ion 165.00 (164.70 to 165.70): E

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: 0.40 ng

RT: 15.90 min Scan# 736

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

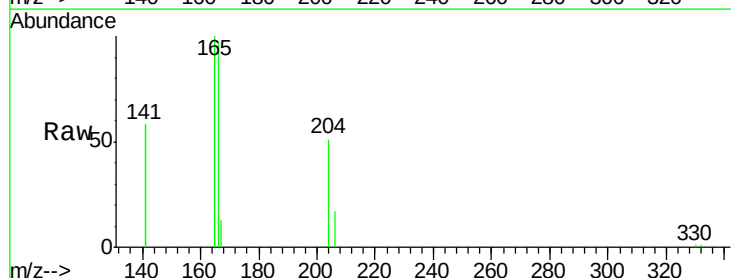
Tgt Ion:166 Resp: 8593

Ion Ratio Lower Upper

166 100

165 98.7 78.6 117.8

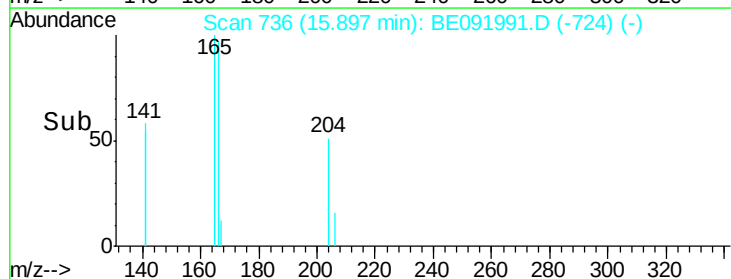
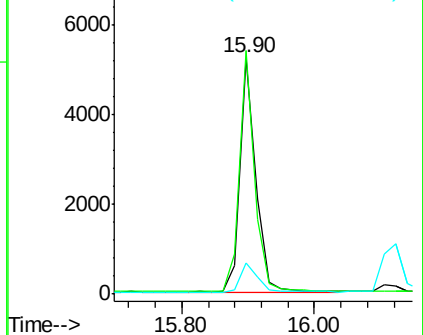
167 13.4 10.8 16.2

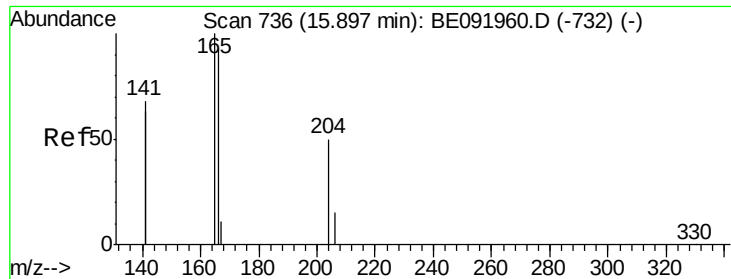


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#23

4-Chlorophenyl-phenylether

Concen: 0.40 ng

RT: 15.90 min Scan# 736

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

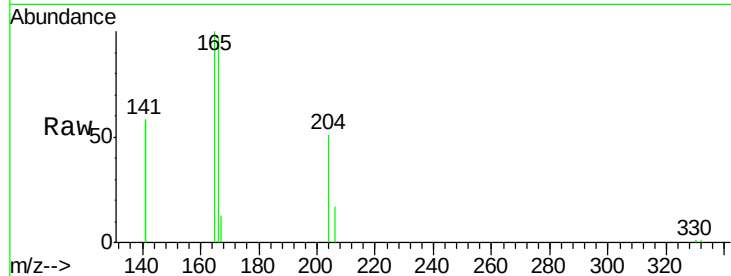
Tot Ion:204 Resp: 4348

Ion Ratio Lower Upper

204 100

206 33.5 27.8 41.6

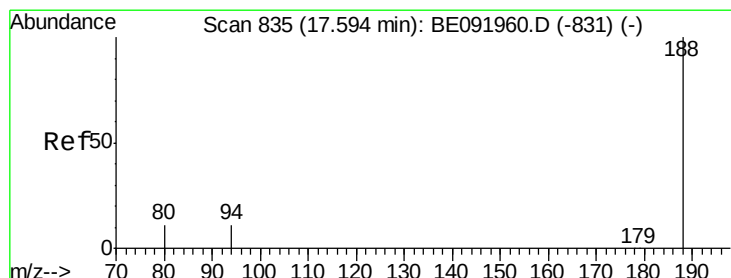
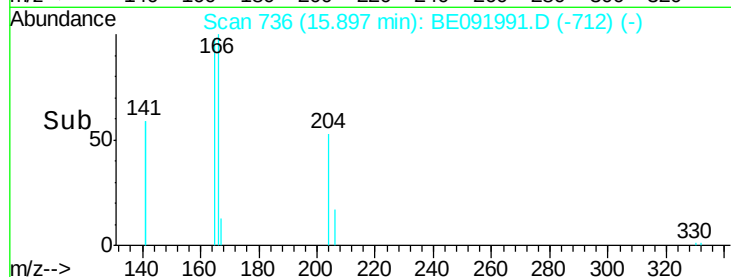
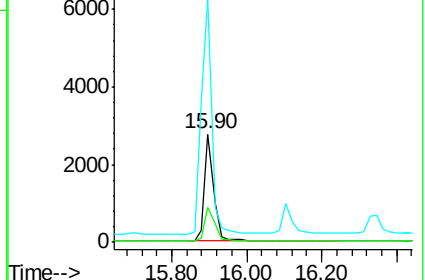
141 253.3 197.6 296.4



Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#24

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.60 min Scan# 835

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

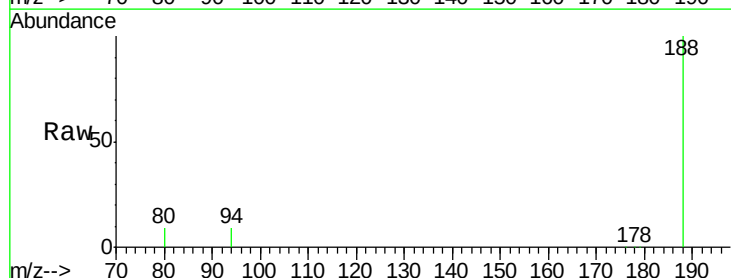
Tgt Ion:188 Resp: 165228

Ion Ratio Lower Upper

188 100

94 9.2 4.1 6.1#

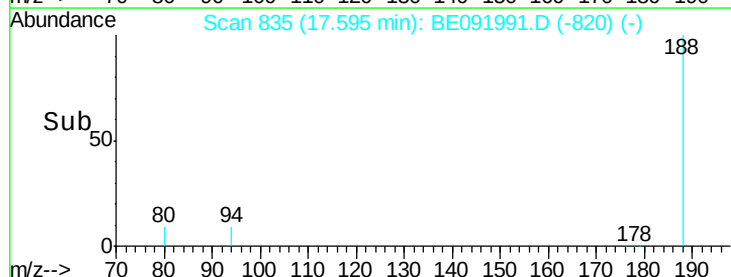
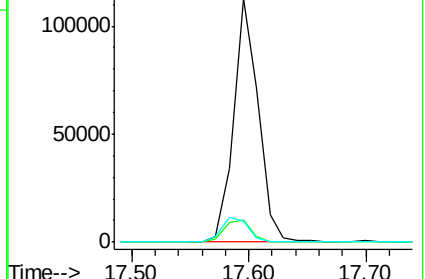
80 8.8 3.4 5.2#

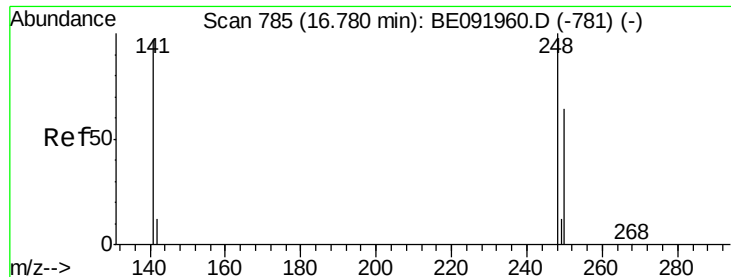


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#25

4-Bromophenyl-phenylether

Concen: 0.36 ng

RT: 16.78 min Scan# 785

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

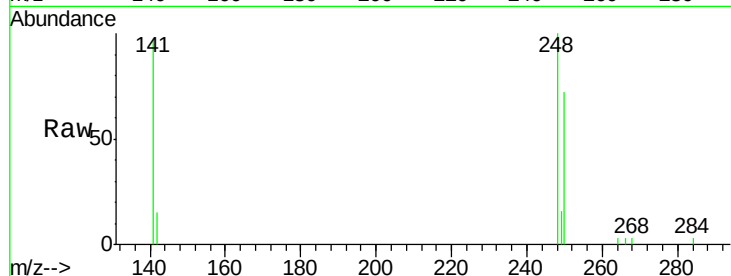
Tot Ion:248 Resp: 2586

Ion Ratio Lower Upper

248 100

250 96.0 75.7 113.5

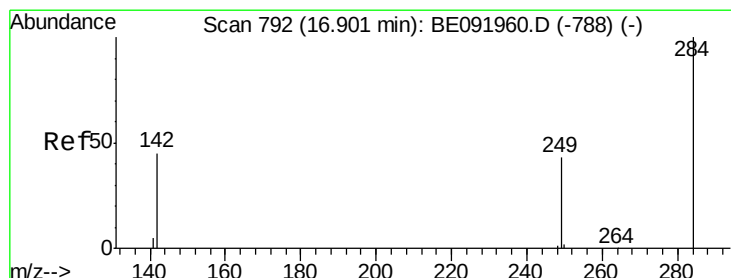
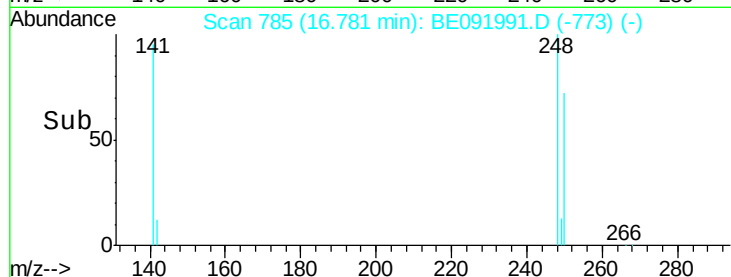
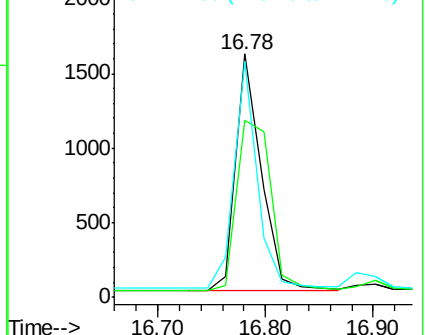
141 86.9 64.6 97.0



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: 0.39 ng

RT: 16.90 min Scan# 792

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

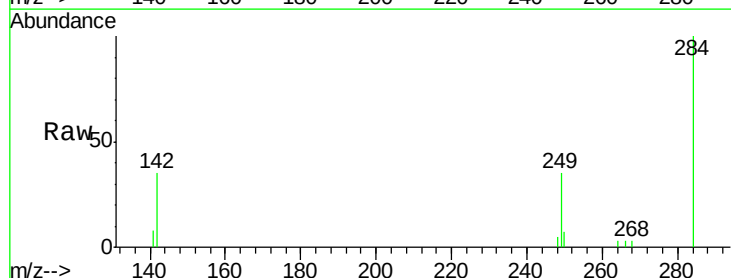
Tgt Ion:284 Resp: 2805

Ion Ratio Lower Upper

284 100

142 40.8 31.4 47.2

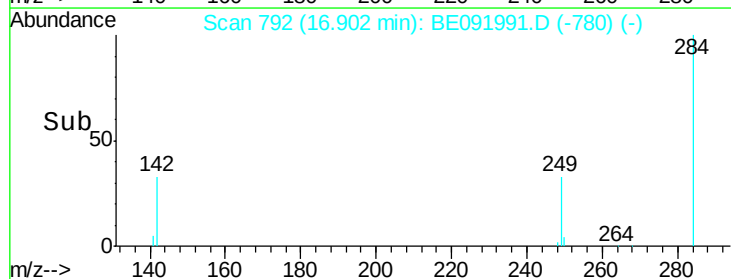
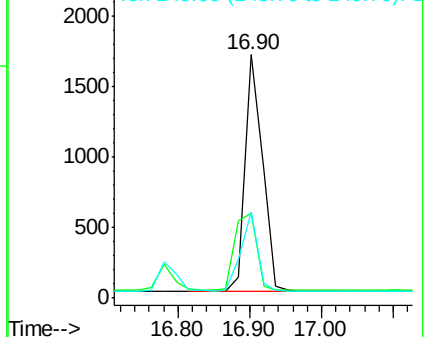
249 31.7 25.3 37.9



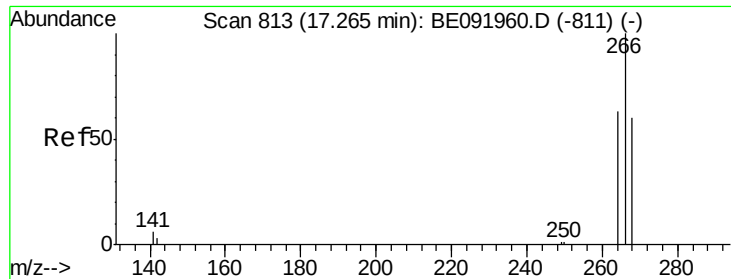
Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



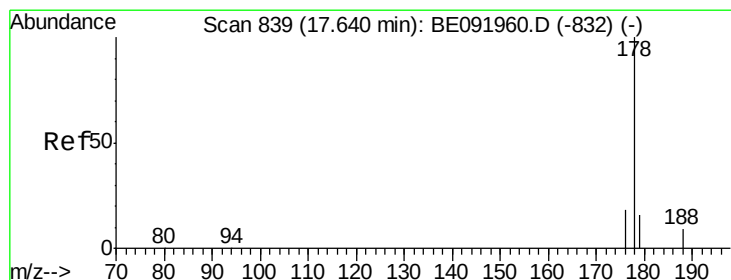
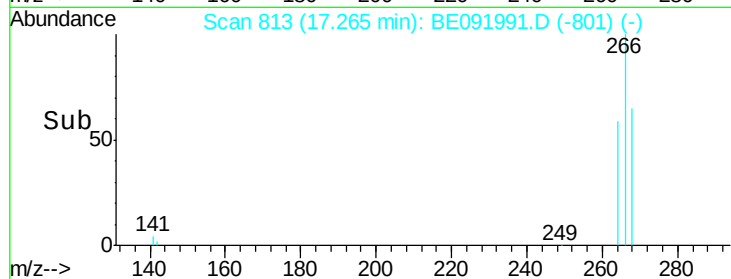
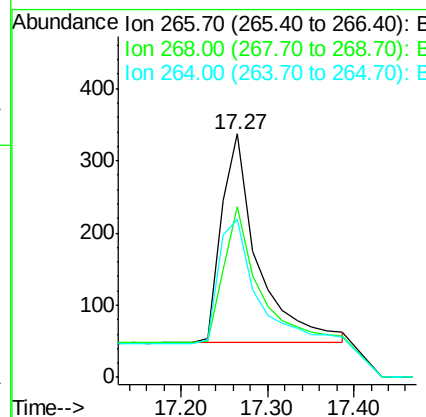
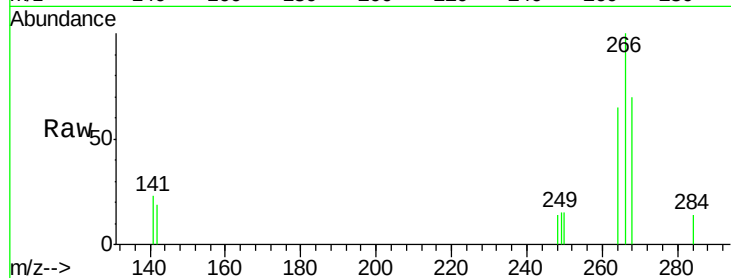




#27  
 Pentachlorophenol  
 Concen: 0.45 ng  
 RT: 17.27 min Scan# 813  
 Delta R.T. 0.00 min  
 Lab File: BE091991.D  
 Acq: 9 Jul 2016 10:19

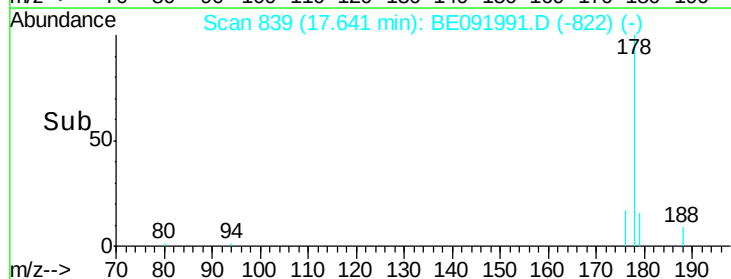
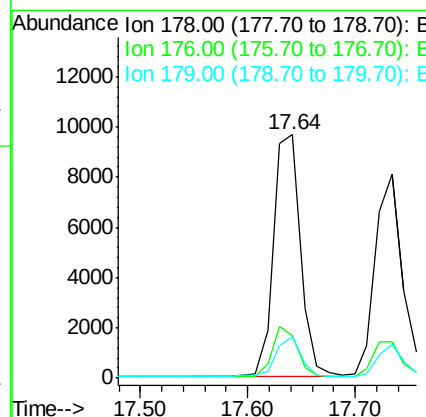
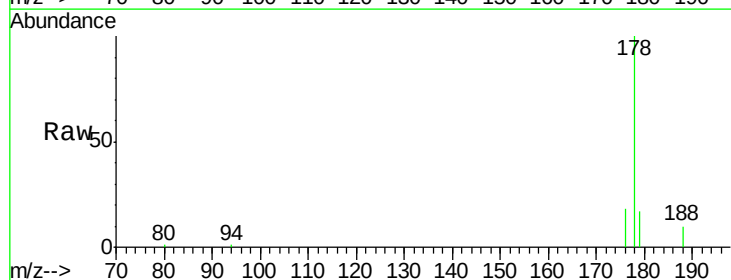
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTCCCC0.4

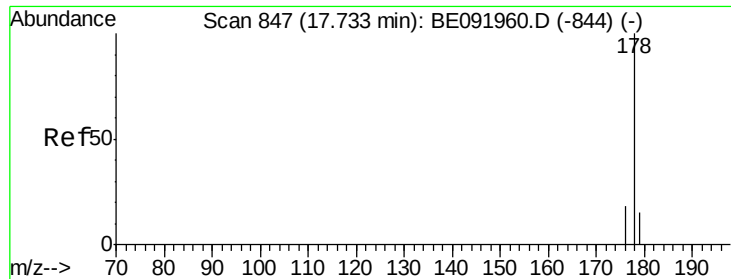
Tot Ion:266 Resp: 841  
 Ion Ratio Lower Upper  
 266 100  
 268 70.3 60.5 90.7  
 264 64.7 51.0 76.4



#28  
 Phenanthrene  
 Concen: 0.39 ng  
 RT: 17.64 min Scan# 839  
 Delta R.T. 0.00 min  
 Lab File: BE091991.D  
 Acq: 9 Jul 2016 10:19

Tgt Ion:178 Resp: 16836  
 Ion Ratio Lower Upper  
 178 100  
 176 19.2 15.4 23.2  
 179 16.0 12.9 19.3





#29

Anthracene

Concen: 0.37 ng

RT: 17.73 min Scan# 847

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

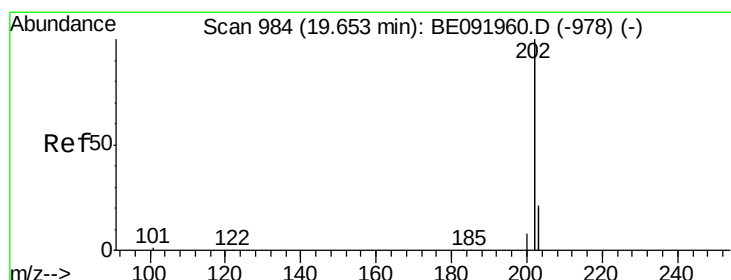
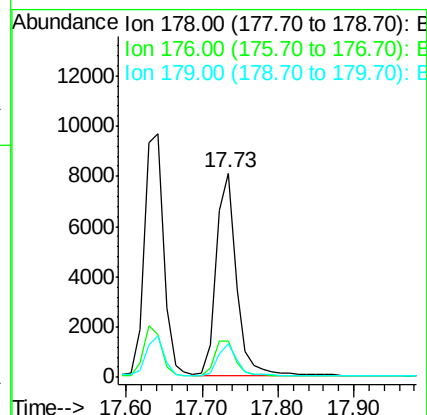
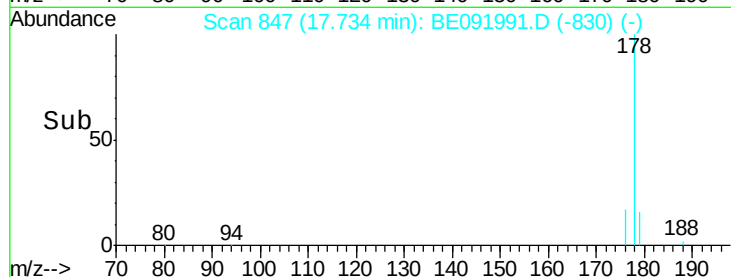
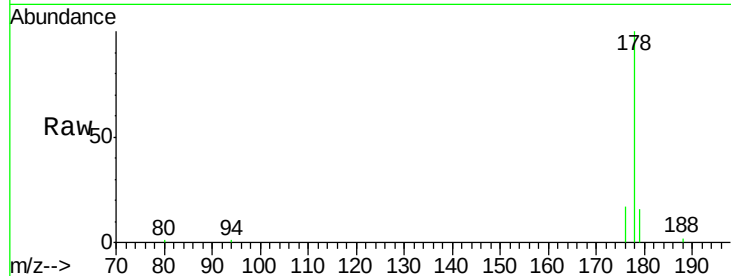
Tot Ion:178 Resp: 14799

Ion Ratio Lower Upper

178 100

176 18.6 15.1 22.7

179 15.0 12.1 18.1



#30

Fluoranthene

Concen: 0.37 ng

RT: 19.65 min Scan# 984

Delta R.T. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

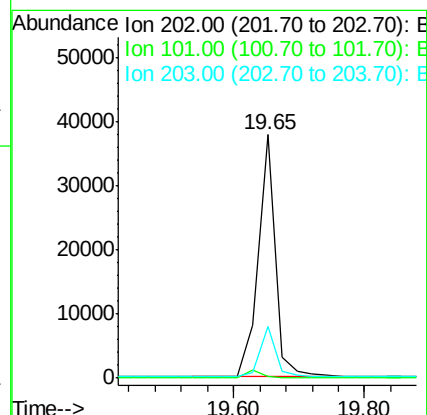
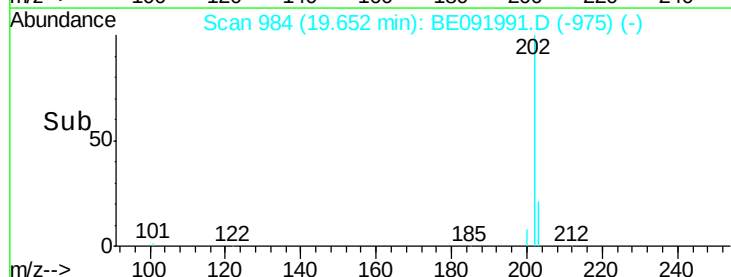
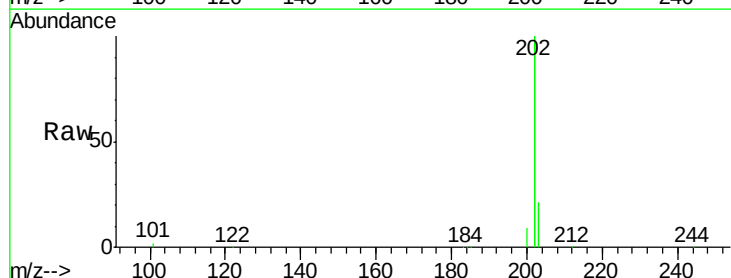
Tgt Ion:202 Resp: 69171

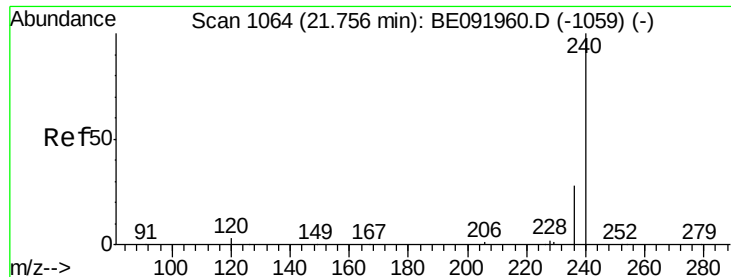
Ion Ratio Lower Upper

202 100

101 0.0 9.4 14.0#

203 18.9 14.3 21.5





#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.76 min Scan# 1064

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

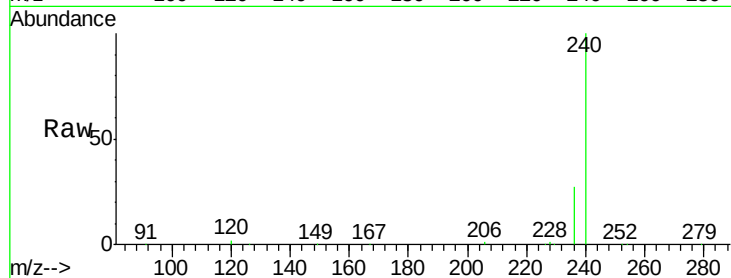
Tot Ion:240 Resp: 296581

Ion Ratio Lower Upper

240 100

120 1.6 1.2 1.8

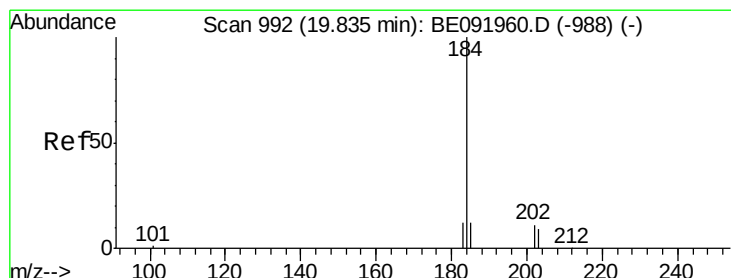
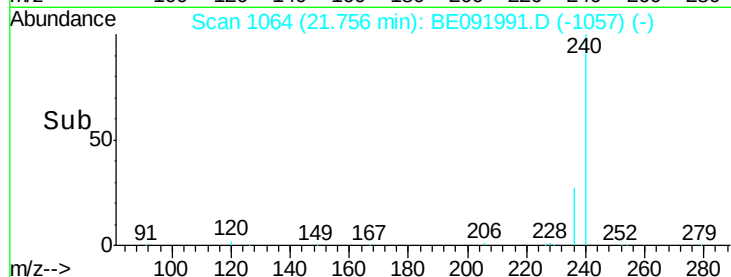
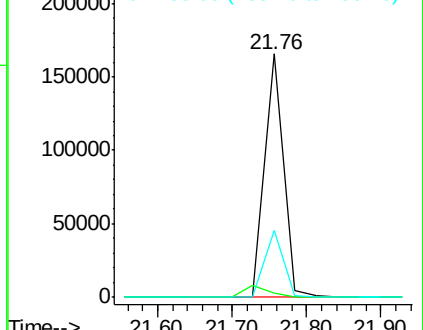
236 27.3 19.8 29.8



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: 0.46 ng

RT: 19.83 min Scan# 992

Delta R.T. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

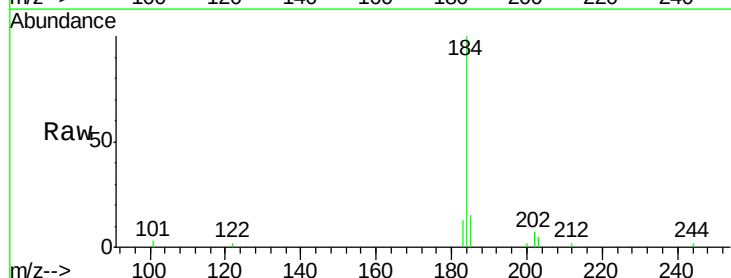
Tgt Ion:184 Resp: 6037

Ion Ratio Lower Upper

184 100

185 15.5 11.4 17.2

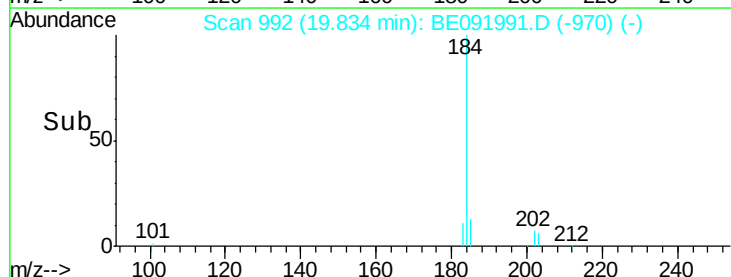
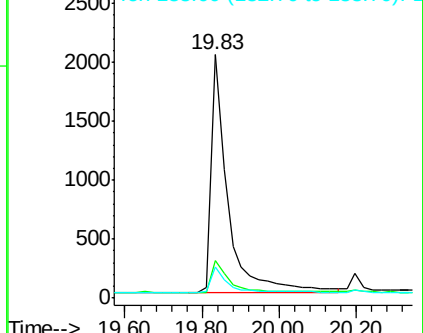
183 13.0 11.8 17.6

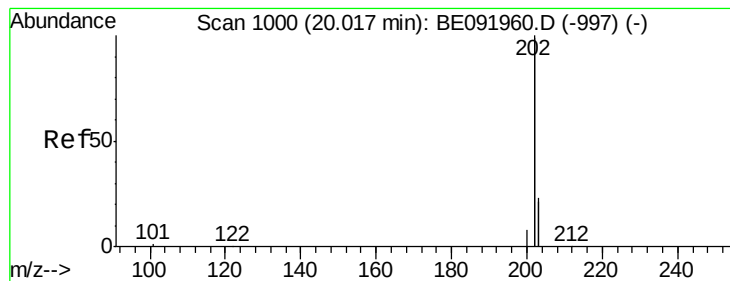


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#33

Pvrene

Concen: 0.33 ng

RT: 20.02 min Scan# 1000

Delta R.T. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

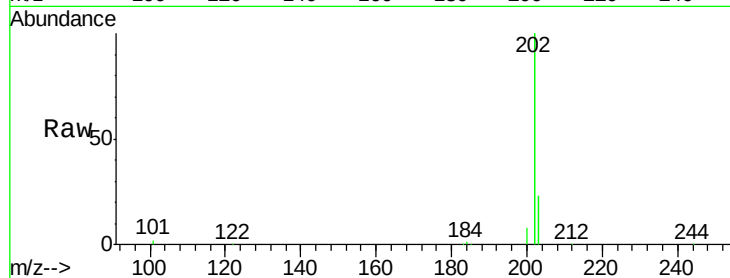
Tot Ion:202 Resp: 71214

Ion Ratio Lower Upper

202 100

200 5.2 16.9 25.3#

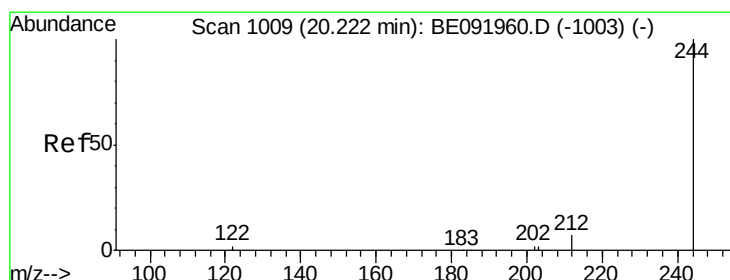
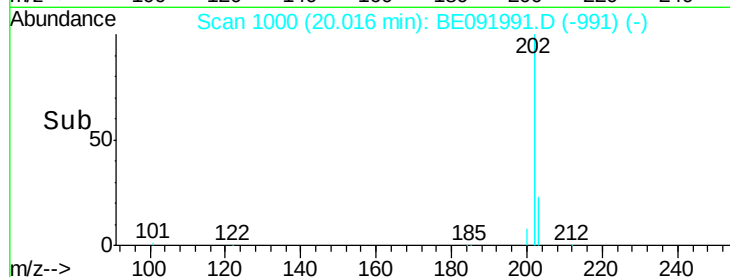
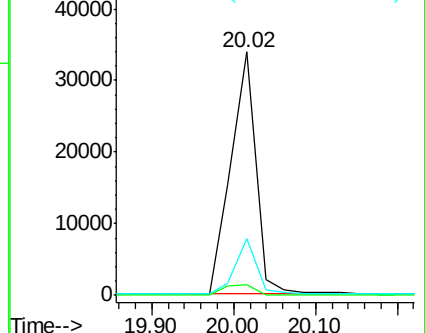
203 18.7 14.1 21.1



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: 0.35 ng

RT: 20.22 min Scan# 1009

Delta R.T. -0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

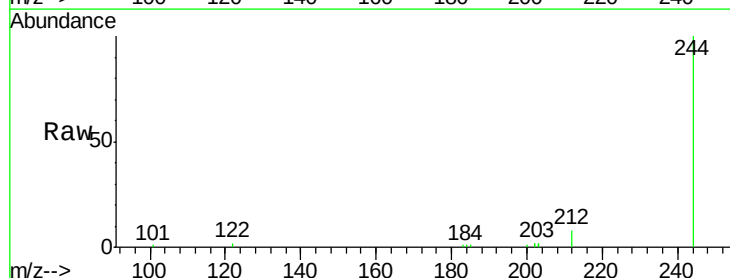
Tgt Ion:244 Resp: 12262

Ion Ratio Lower Upper

244 100

212 7.8 6.5 9.7

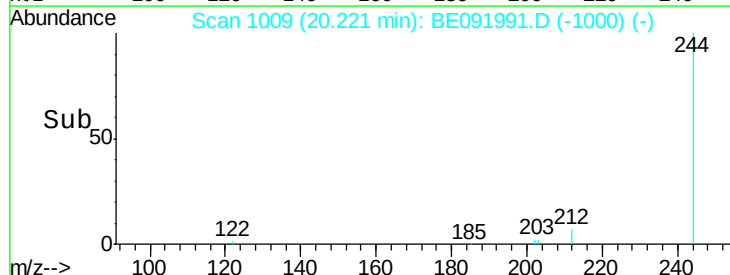
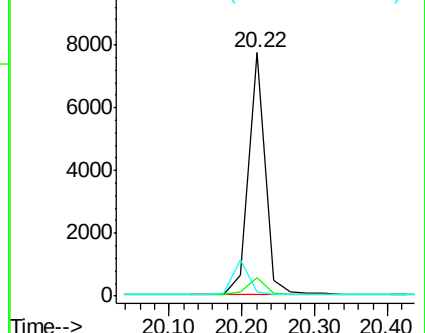
122 1.8 2.9 4.3#

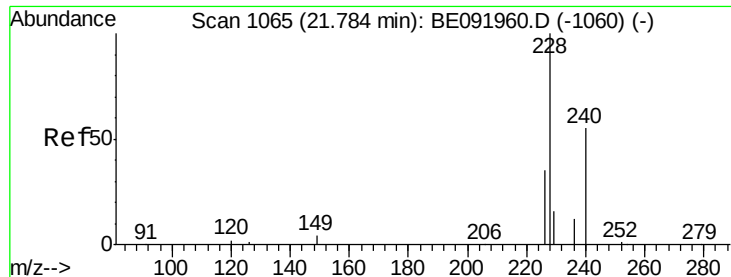


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#35

Benzo(a)anthracene

Concen: 0.37 ng

RT: 21.73 min Scan# 1063

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

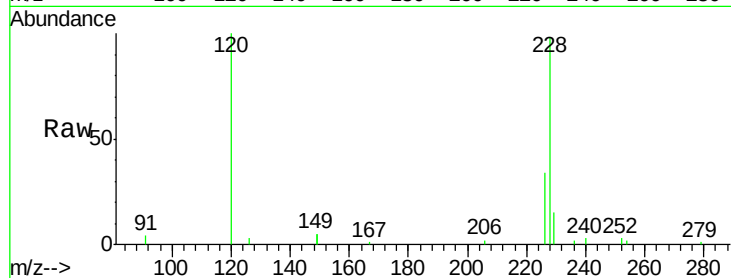
Tot Ion:228 Resp: 18287

Ion Ratio Lower Upper

228 100

226 34.3 21.0 31.4#

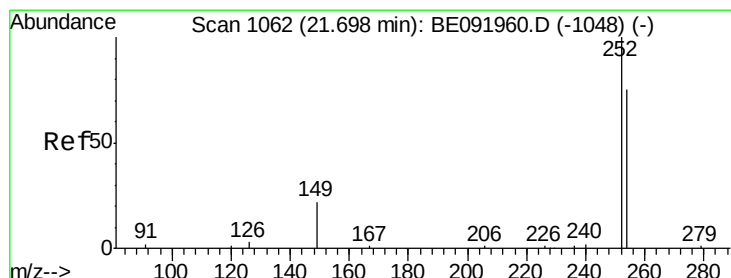
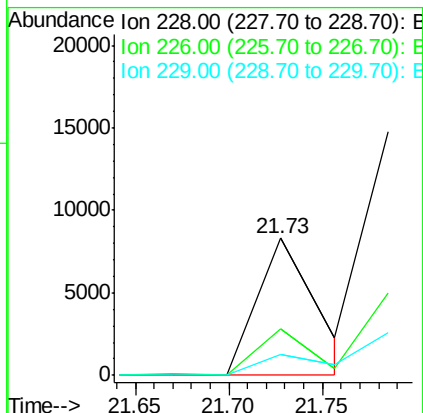
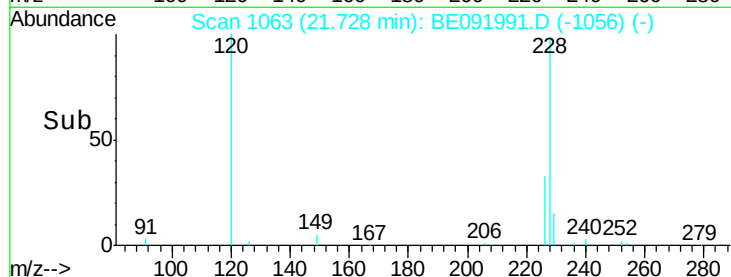
229 15.5 15.8 23.8#



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: 0.22 ng

RT: 21.70 min Scan# 1062

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

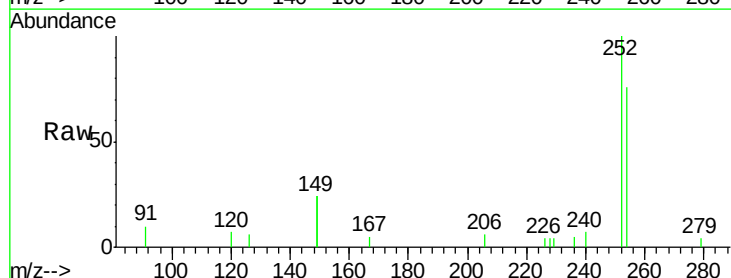
Tgt Ion:252 Resp: 3691

Ion Ratio Lower Upper

252 100

254 76.1 61.5 92.3

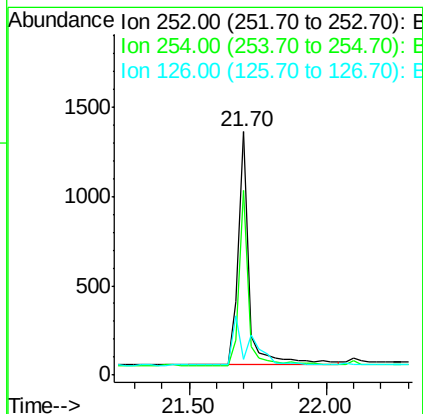
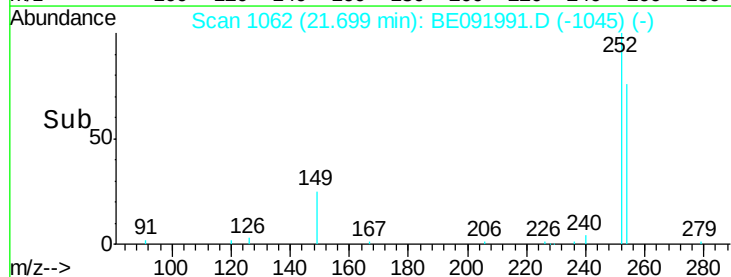
126 6.5 2.5 3.7#

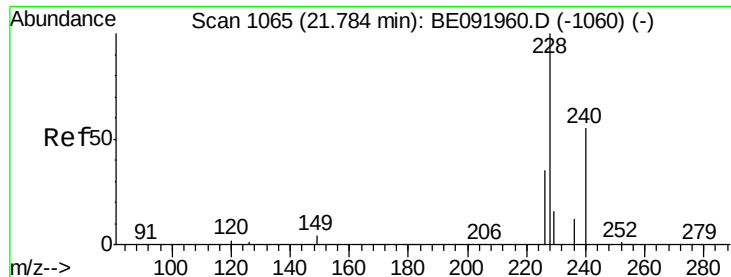


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#37

Chrysene

Concen: 0.40 ng/mL

RT: 21.78 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

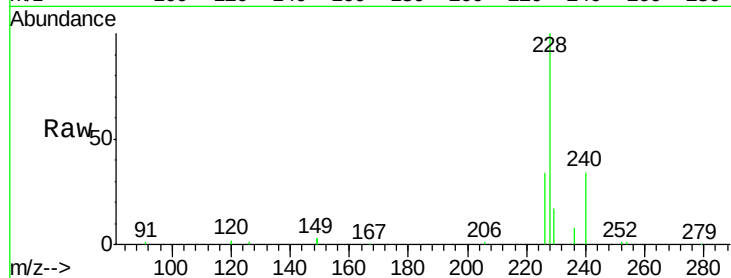
Tot Ion: 228 Resp: 28104

Ion Ratio Lower Upper

228 100

226 33.7 27.0 40.6

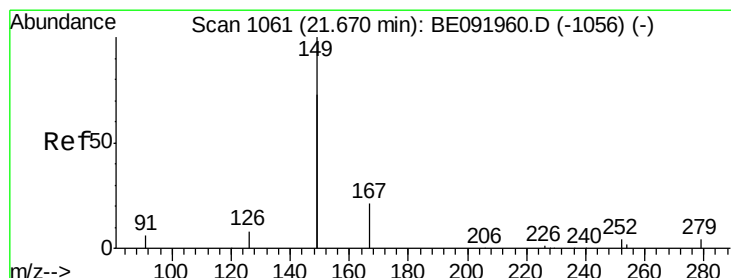
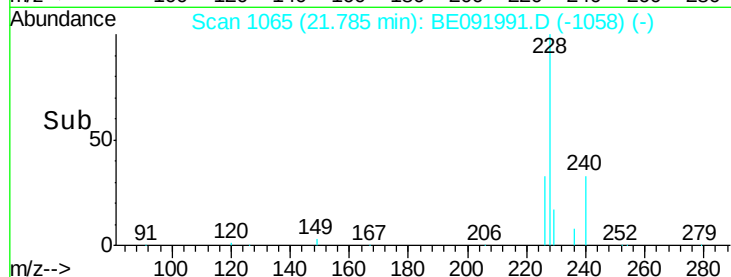
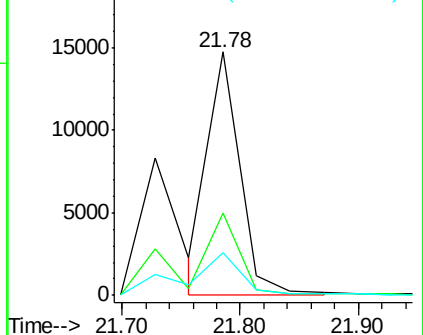
229 17.5 13.8 20.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#38

Bis(2-ethylhexyl)phthalate

Concen: 0.24 ng/mL

RT: 21.64 min Scan# 1060

Delta R.T. -0.03 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

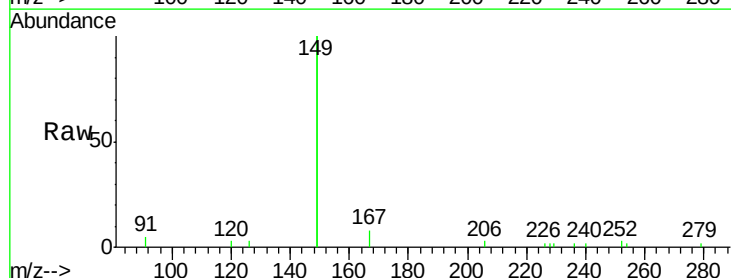
Tgt Ion: 149 Resp: 13943

Ion Ratio Lower Upper

149 100

167 0.0 0.0 0.0

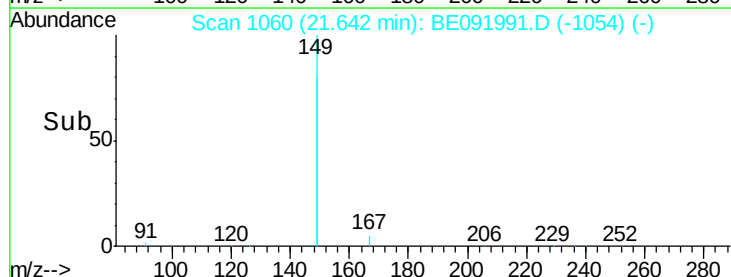
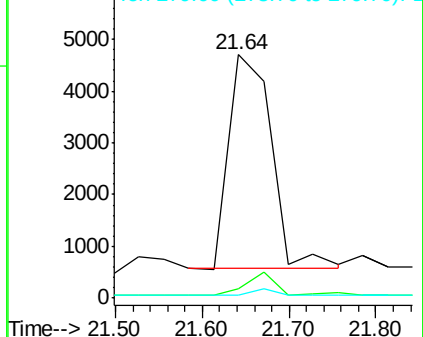
279 0.0 0.0 0.0

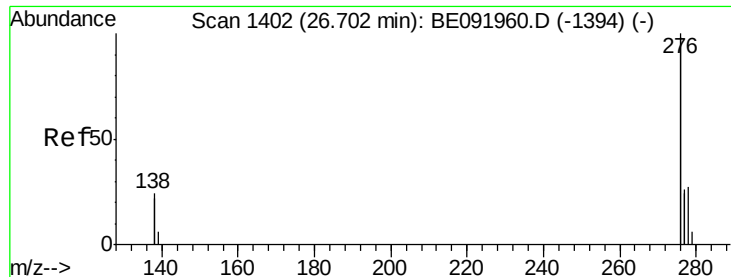


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

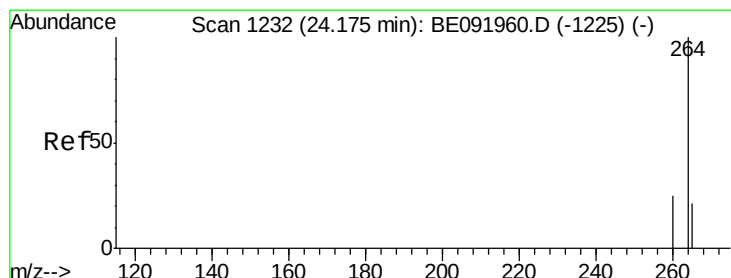
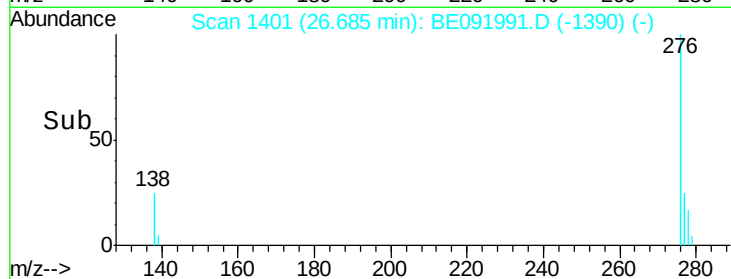
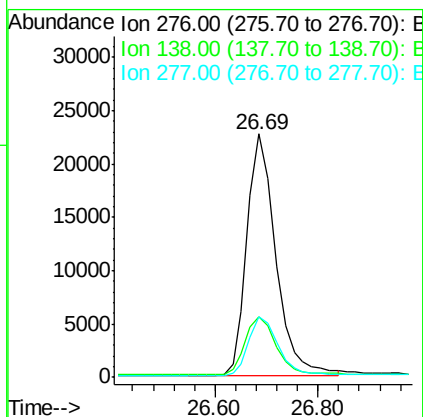
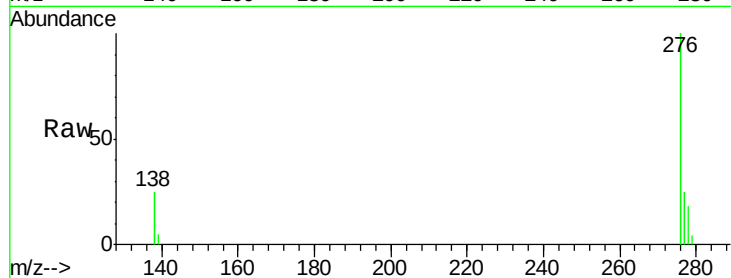




#39  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.32 ng  
 RT: 26.69 min Scan# 1401  
 Delta R.T. -0.02 min  
 Lab File: BE091991.D  
 Acq: 9 Jul 2016 10:19

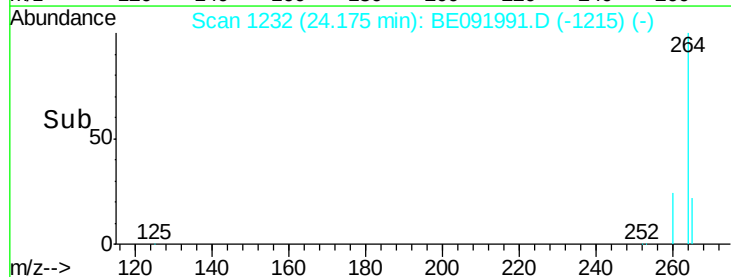
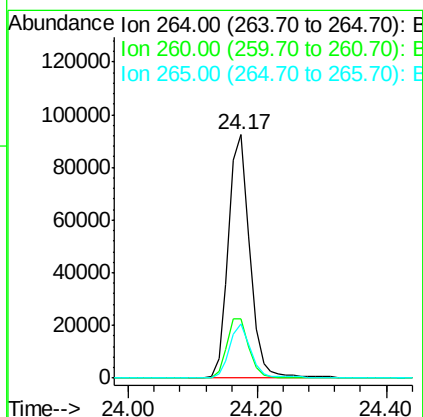
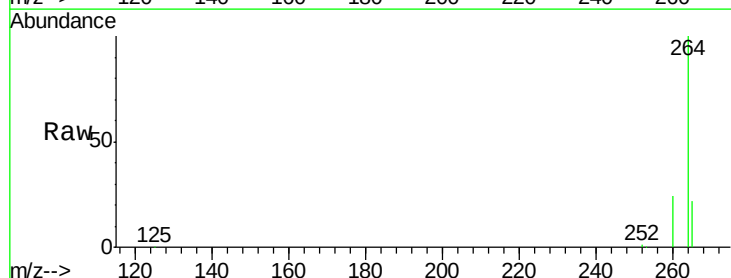
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTDCCC0.4

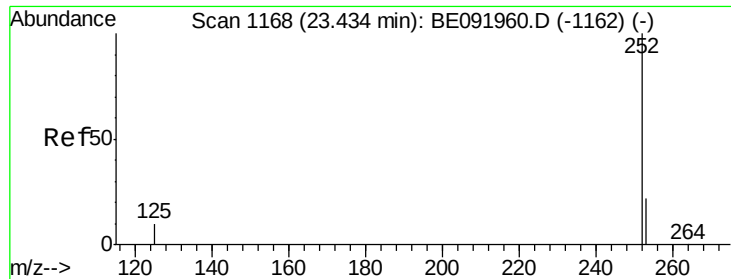
Tot Ion:276 Resp: 87594  
 Ion Ratio Lower Upper  
 276 100  
 138 26.3 19.7 29.5  
 277 24.9 20.1 30.1



#40  
 Perylene-d12  
 Concen: 5.00 ng  
 RT: 24.17 min Scan# 1232  
 Delta R.T. 0.00 min  
 Lab File: BE091991.D  
 Acq: 9 Jul 2016 10:19

Tgt Ion:264 Resp: 211111  
 Ion Ratio Lower Upper  
 264 100  
 260 24.5 20.3 30.5  
 265 22.3 17.6 26.4





#41

Benzo(b)fluoranthene

Concen: 0.39 ng

RT: 23.43 min Scan# 1168

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

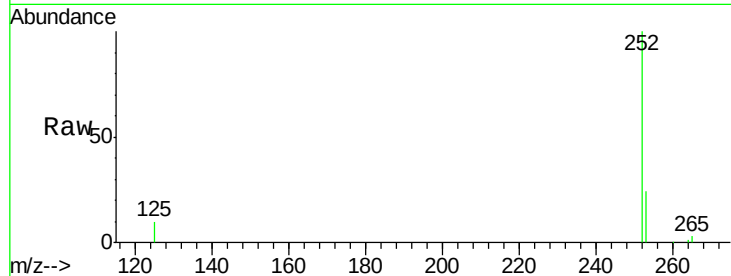
Tot Ion:252 Resp: 22515

Ion Ratio Lower Upper

252 100

253 24.2 17.8 26.6

125 10.3 9.4 14.2

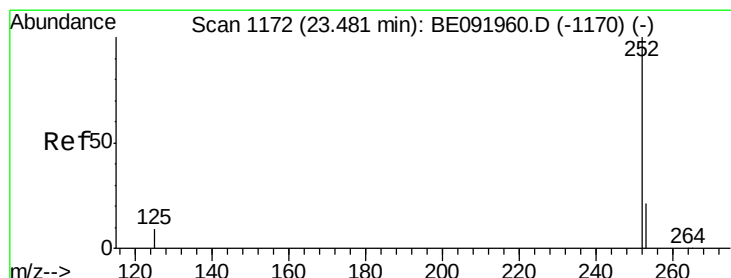
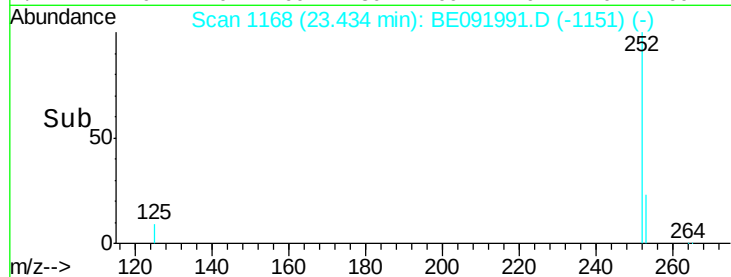
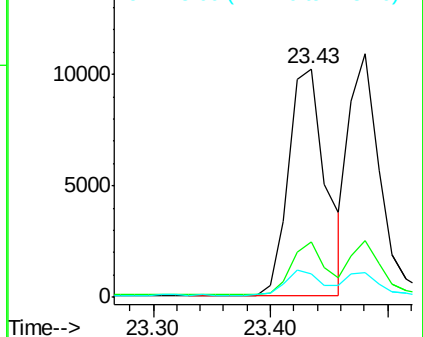


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#42

Benzo(k)fluoranthene

Concen: 0.35 ng

RT: 23.48 min Scan# 1172

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

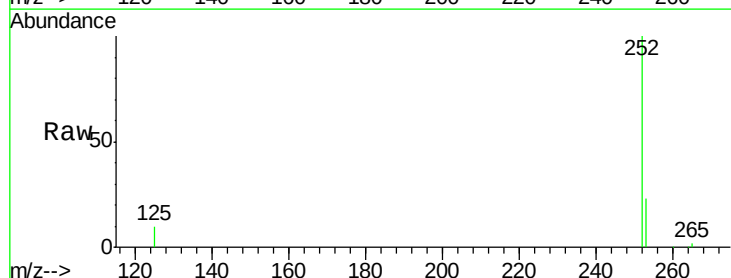
Tgt Ion:252 Resp: 19905

Ion Ratio Lower Upper

252 100

253 23.1 19.4 29.2

125 10.4 8.3 12.5

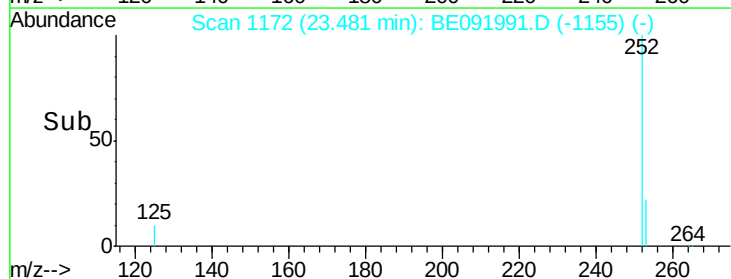
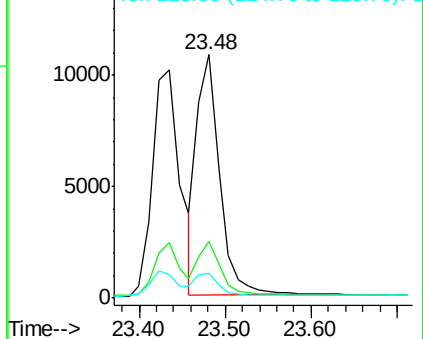


Abundance

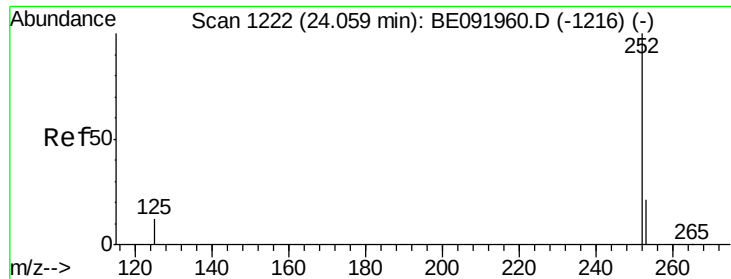
Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#43

Benzo(a)pyrene

Concen: 0.35 ng

RT: 24.06 min Scan# 1222

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

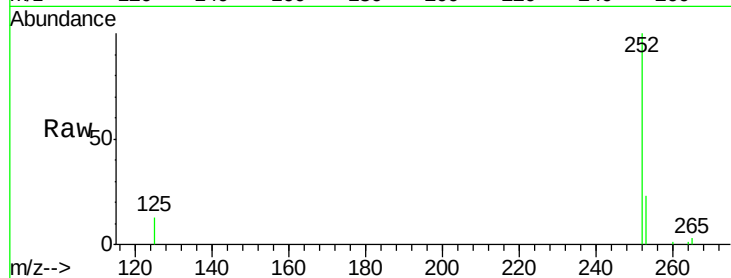
Tot Ion:252 Resp: 19535

Ion Ratio Lower Upper

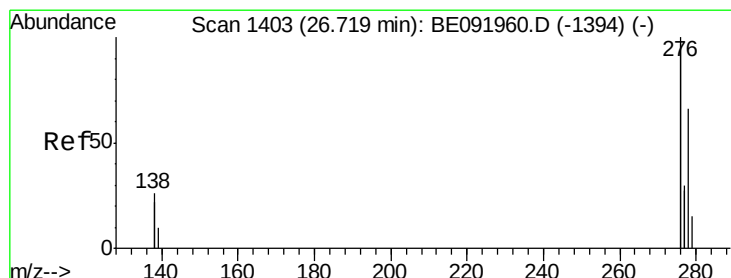
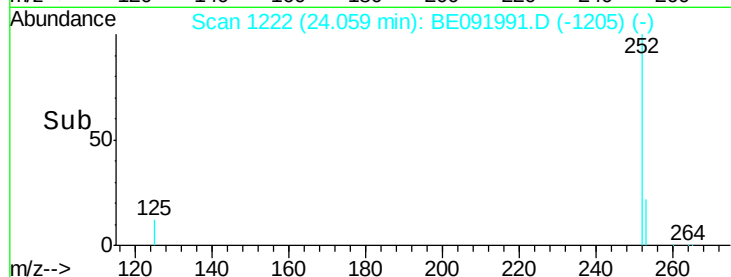
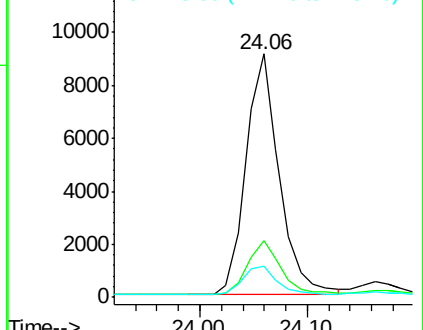
252 100

253 23.1 18.9 28.3

125 12.8 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# 1403

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

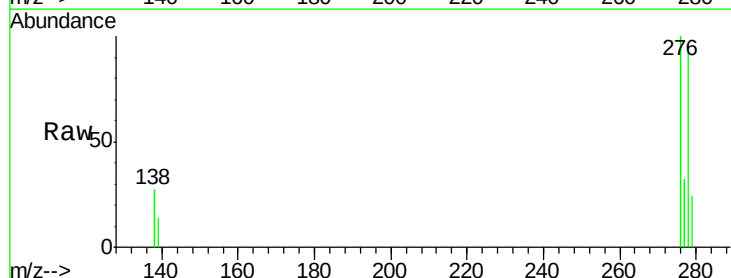
Tgt Ion:278 Resp: 18003

Ion Ratio Lower Upper

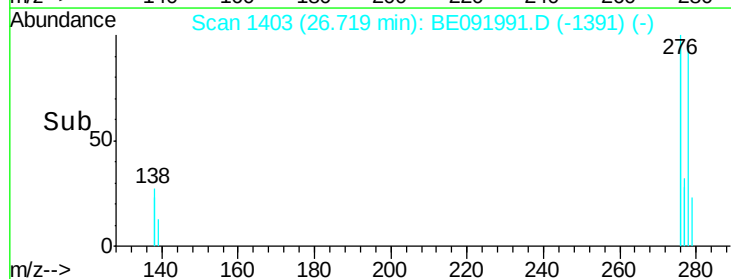
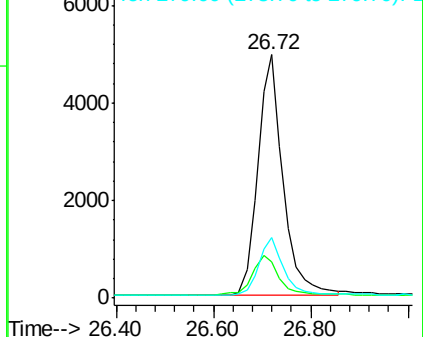
278 100

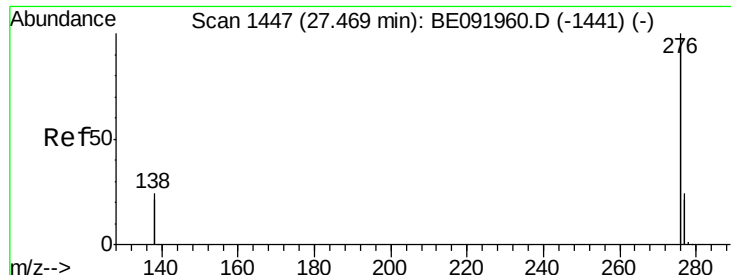
139 14.8 12.6 18.8

279 24.9 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: 0.34 ng

RT: 27.47 min Scan# 1447

Delta R.T. 0.00 min

Lab File: BE091991.D

Acq: 9 Jul 2016 10:19

Instrument :

BNA\_E

ClientSampleId :

SSTDCCC0.4

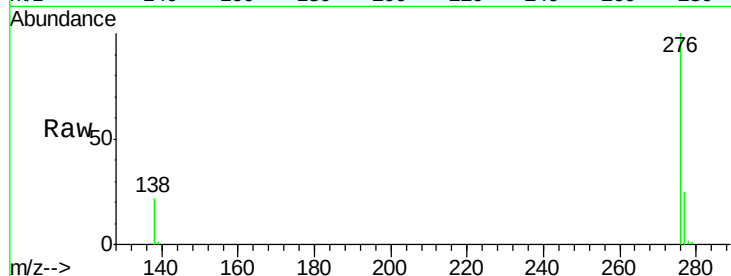
Tot Ion:276 Resp: 72633

Ion Ratio Lower Upper

276 100

277 24.8 19.5 29.3

138 22.0 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

