

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM070615\  
 Data File : BM001862.D  
 Acq On : 07 Jul 2015 11:17  
 Operator : TP/UM  
 Sample : G2861-08MS  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 G93L3MS

Quant Time: Jul 08 02:17:41 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061515.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 08 02:11:29 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.66  | 152  | 58677    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.46 | 136  | 220123   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.32 | 164  | 131096   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.07 | 188  | 285380   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.26 | 240  | 333167   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.49 | 264  | 349487   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.15  | 96  | 2694   | 2.19  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.83  | 99  | 52235  | 11.59 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.00  | 67  | 30344  | 12.02 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.19  | 132 | 43857  | 12.31 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.37  | 113 | 34232  | 9.46  | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 8.82  | 128 | 21395  | 14.04 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.54  | 143 | 22360  | 13.42 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.07 | 165 | 44314  | 12.42 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.57 | 131 | 123962 | 34.16 | ng/ul | -0.02 |
| 43) Dimethylphthalate-d6       | 13.73 | 166 | 119155 | 12.26 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.02 | 160 | 161068 | 12.64 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 14.53 | 143 | 25705  | 14.33 | ng/ul | 0.00  |
| 57) Fluorene-d10               | 15.32 | 176 | 113573 | 12.59 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.44 | 200 | 11315  | 6.49  | ng/ul | 0.00  |
| 70) Anthracene-d10             | 17.17 | 188 | 176753 | 13.30 | ng/ul | 0.00  |
| 78) Pyrene-d10                 | 19.47 | 212 | 195203 | 13.83 | ng/ul | 0.00  |
| 89) Benzo(a)pyrene-d12         | 23.34 | 264 | 200825 | 13.04 | ng/ul | 0.01  |

## Target Compounds

|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 2) 1,4-Dioxane                 | 2.89  | 88  | 11709  | 8.33  | ng/uL# | 1      |
| 6) Phenol                      | 6.86  | 94  | 55133  | 11.85 | ng/ul  | 98     |
| 10) 2-Chlorophenol             | 7.23  | 128 | 44941  | 12.18 | ng/ul  | 97     |
| 15) N-Nitroso-di-n-propylamine | 8.46  | 70  | 35147  | 12.53 | ng/ul  | 99     |
| 17) Hexachloroethane           | 8.76  | 117 | 24504  | 16.54 | ng/ul# | 1      |
| 20) Nitrobenzene               | 8.85  | 77  | 5542   | 1.34  | ng/ul# | 35     |
| 21) Isophorone                 | 9.37  | 82  | 18023  | 2.62  | ng/ul# | 1      |
| 23) 2-Nitrophenol              | 9.58  | 139 | 2315   | 1.27  | ng/ul# | 1      |
| 28) Naphthalene                | 10.50 | 128 | 20841  | 1.88  | ng/ul# | 40     |
| 32) Caprolactam                | 11.38 | 113 | 2937   | 2.84  | ng/ul# | 1      |
| 33) 4-Chloro-3-methylphenol    | 11.75 | 107 | 40116  | 10.89 | ng/ul  | 95     |
| 34) 2-Methylnaphthalene        | 12.13 | 142 | 575648 | 71.62 | ng/ul  | 98     |
| 44) Dimethylphthalate          | 13.78 | 163 | 39992  | 3.76  | ng/ul# | 97     |
| 47) Acenaphthylene             | 14.05 | 152 | 35302  | 2.72  | ng/ul# | 29     |
| 49) Acenaphthene               | 14.39 | 153 | 165671 | 19.08 | ng/ul  | 99     |
| 52) 4-Nitrophenol              | 14.54 | 109 | 21340  | 11.52 | ng/ul# | 64     |
| 53) Dibenzofuran               | 14.72 | 168 | 41222  | 3.32  | ng/ul# | 17     |
| 54) 2,4-Dinitrotoluene         | 14.70 | 165 | 48662  | 16.52 | ng/ul# | 84     |
| 58) Fluorene                   | 15.37 | 166 | 78331  | 7.57  | ng/ul# | 89     |
| 64) N-Nitrosodiphenylamine     | 15.59 | 169 | 121320 | 14.55 | ng/ul# | 54     |
| 68) Pentachlorophenol          | 16.72 | 266 | 17404  | 7.94  | ng/ul  | 96     |
| 69) Phenanthrene               | 17.11 | 178 | 325042 | 21.01 | ng/ul  | 97     |
| 71) Anthracene                 | 17.11 | 178 | 323928 | 20.39 | ng/ul  | 97     |

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM070615\  
Data File : BM001862.D  
Acq On : 07 Jul 2015 11:17  
Operator : TP/UM  
Sample : G2861-08MS  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

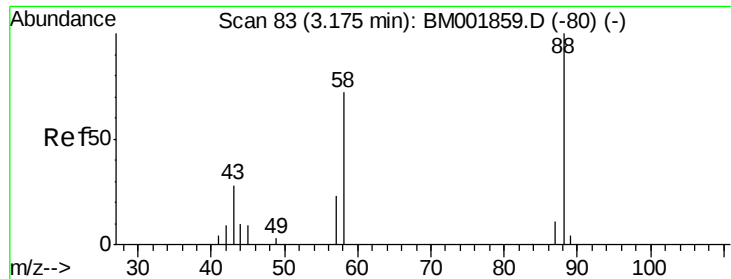
Instrument :  
BNA\_M  
ClientSampleId :  
G93L3MS

Quant Time: Jul 08 02:17:41 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061515.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jul 08 02:11:29 2015  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|-------|------|----------|-------|--------|----------|
| 76) Fluoranthene           | 19.13 | 202  | 164700   | 8.90  | ng/ul  | 98       |
| 79) Pyrene                 | 19.50 | 202  | 485820   | 26.28 | ng/ul  | 99       |
| 82) Benzo(a)anthracene     | 21.24 | 228  | 106991   | 5.50  | ng/ul# | 90       |
| 84) Chrysene               | 21.30 | 228  | 112813   | 6.11  | ng/ul# | 93       |
| 87) Benzo(b)fluoranthene   | 22.82 | 252  | 175610   | 8.63  | ng/ul# | 93       |
| 88) Benzo(k)fluoranthene   | 22.82 | 252  | 68204    | 3.47  | ng/ul# | 91       |
| 90) Benzo(a)pyrene         | 23.39 | 252  | 130337   | 6.59  | ng/ul# | 89       |
| 91) Indeno(1,2,3-cd)pyrene | 25.73 | 276  | 120583   | 5.14  | ng/ul  | 95       |
| 92) Dibenzo(a,h)anthracene | 25.73 | 278  | 30210    | 1.53  | ng/ul# | 65       |
| 93) Benzo(g,h,i)perylene   | 26.42 | 276  | 125463   | 6.36  | ng/ul  | 95       |

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





#2

1,4-Dioxane

Concen: 8.33 ng/uL

RT: 2.89 min Scan# 34

Delta R.T. -0.29 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

G93L3MS

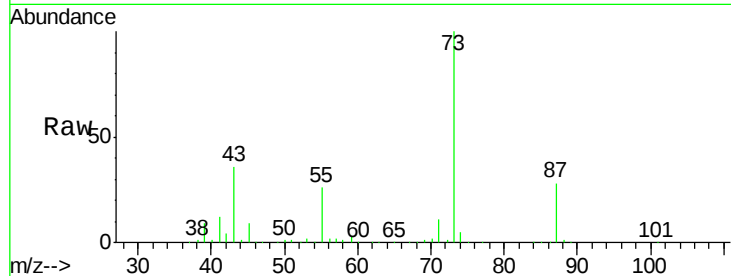
Tgt Ion: 88 Resp: 11709

Ion Ratio Lower Upper

88 100

43 2287.0 24.2 36.4#

58 32.2 56.2 84.2#



Abundance Ion 88.00 (87.70 to 88.70): BM001859.D (-80) (-)

Ion 43.00 (42.70 to 43.70): BM001859.D (-80) (-)

Ion 58.00 (57.70 to 58.70): BM001859.D (-80) (-)

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Ion 87.00 (86.70 to 87.70): BM001859.D (-80) (-)

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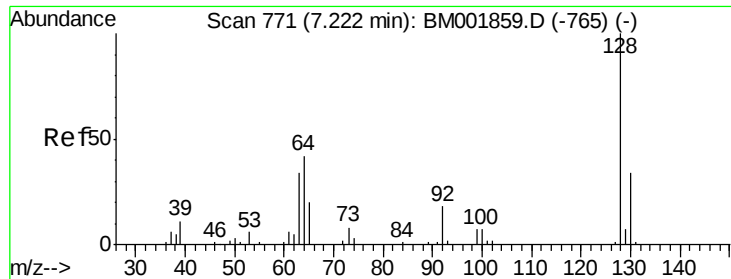
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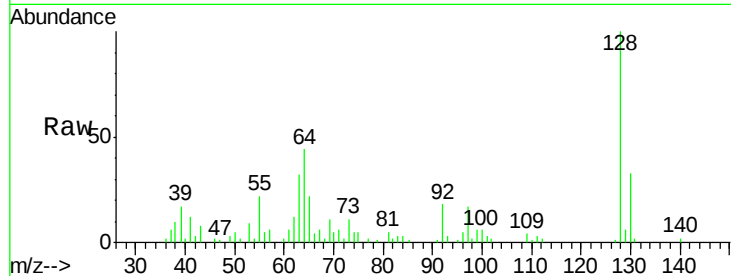
Ion 2667.00 (2666.70 to 2667.70): BM0



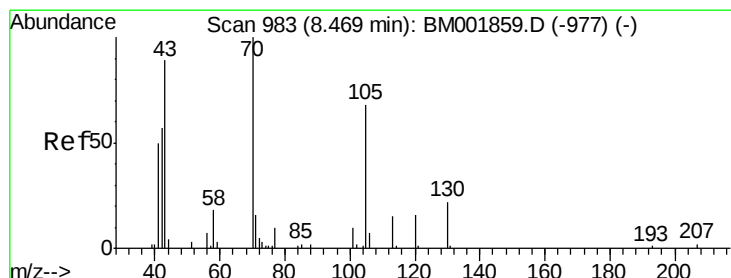
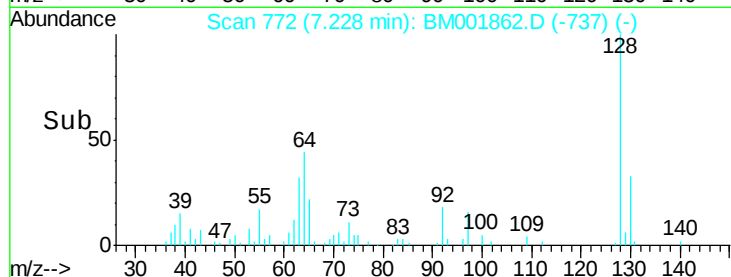
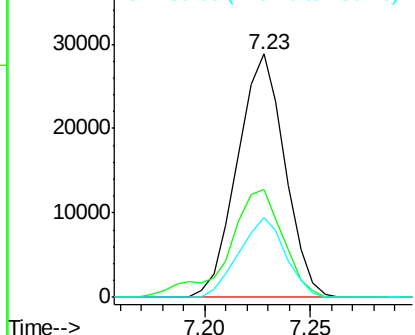
#10  
2-Chlorophenol  
Concen: 12.18 ng/ul  
RT: 7.23 min Scan# 772  
Delta R.T. 0.01 min  
Lab File: BM001862.D  
Acq: 07 Jul 2015 11:17

Instrument :  
BNA\_M  
ClientSampleId :  
G93L3MS

Tgt Ion:128 Resp: 44941  
Ion Ratio Lower Upper  
128 100  
64 44.1 37.4 56.2  
130 33.0 25.4 38.0

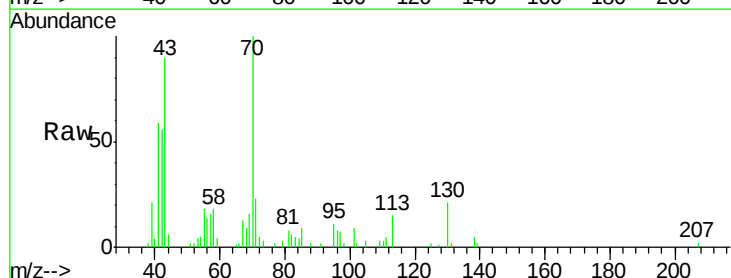


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 64.00 (63.70 to 64.70): BM0  
Ion 130.00 (129.70 to 130.70): E

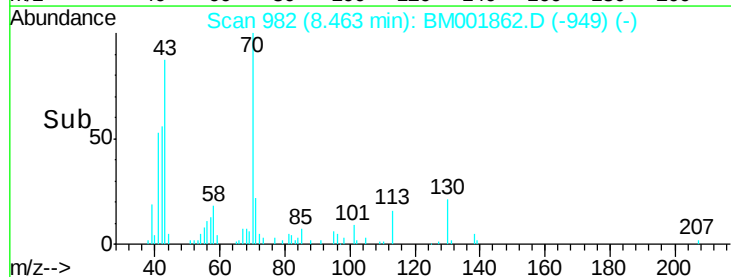
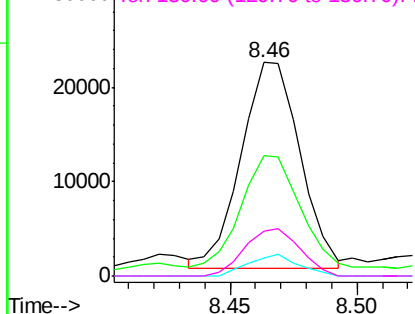


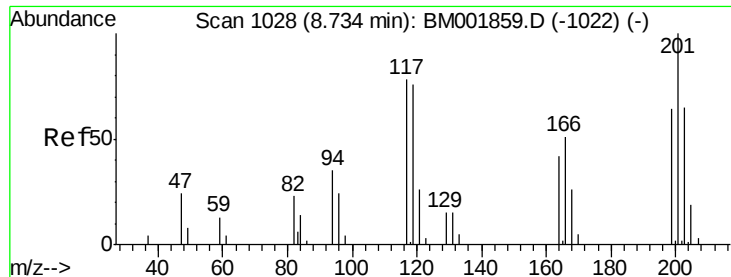
#15  
N-Nitroso-di-n-propylamine  
Concen: 12.53 ng/ul  
RT: 8.46 min Scan# 982  
Delta R.T. -0.01 min  
Lab File: BM001862.D  
Acq: 07 Jul 2015 11:17

Tgt Ion: 70 Resp: 35147  
Ion Ratio Lower Upper  
70 100  
42 56.2 45.2 67.8  
101 8.7 7.8 11.6  
130 20.8 15.5 23.3



Abundance Ion 70.00 (69.70 to 70.70): BM0  
Ion 42.00 (41.70 to 42.70): BM0  
Ion 101.00 (100.70 to 101.70): E  
Ion 130.00 (129.70 to 130.70): E

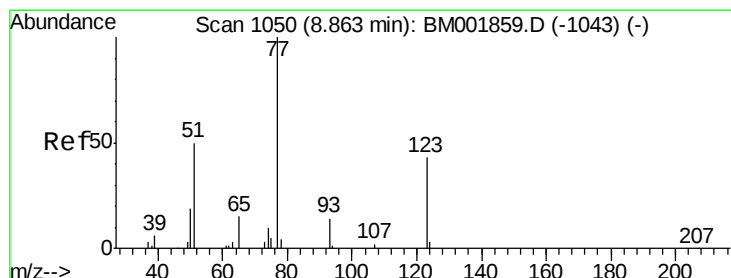
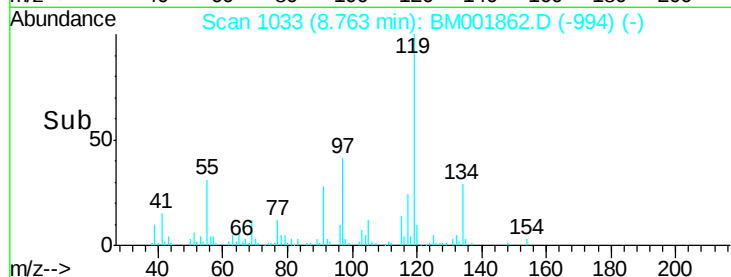
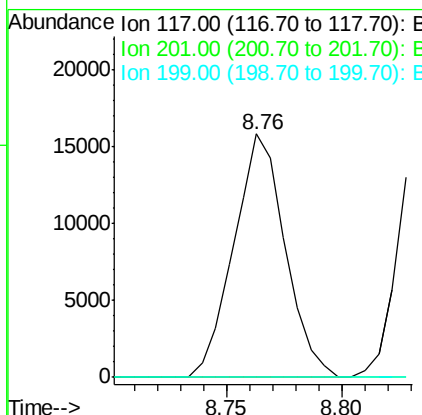
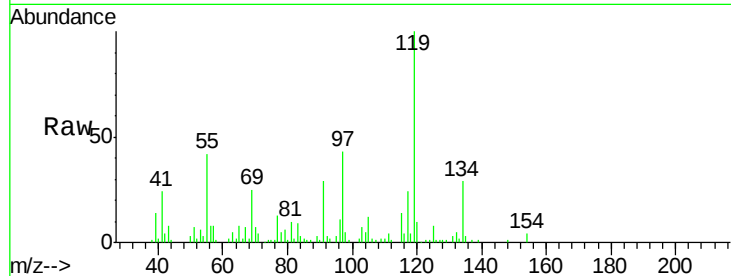




#17  
Hexachloroethane  
Concen: 16.54 ng/ul  
RT: 8.76 min Scan# 1033  
Delta R.T. 0.03 min  
Lab File: BM001862.D  
Acq: 07 Jul 2015 11:17

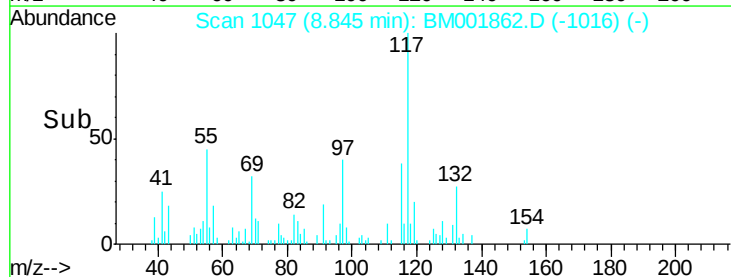
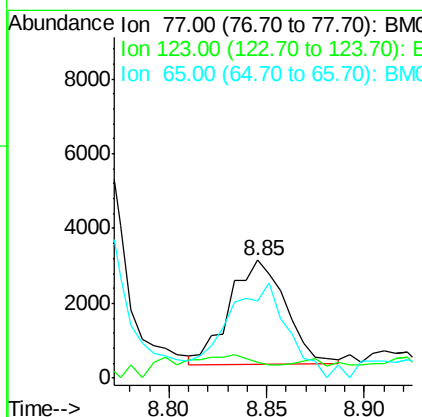
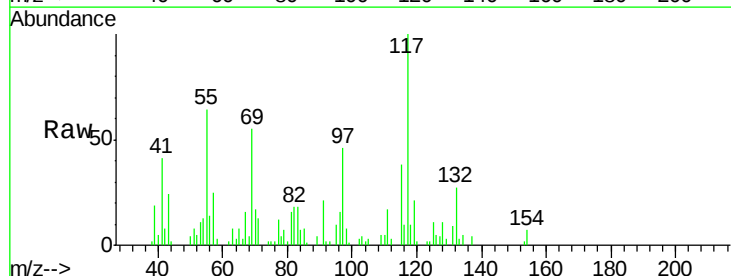
Instrument :  
BNA\_M  
ClientSampleId :  
G93L3MS

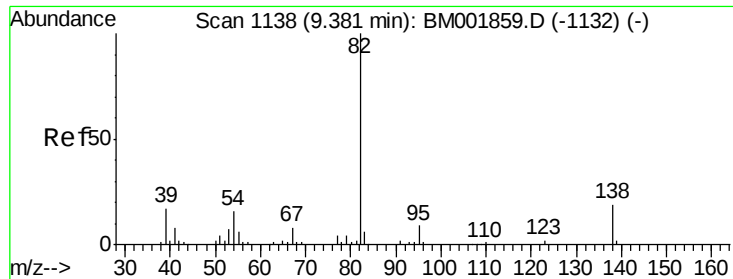
Tgt Ion: 117 Resp: 24504  
Ion Ratio Lower Upper  
117 100  
201 0.0 92.1 138.1#  
199 0.0 60.6 90.8#



#20  
Nitrobenzene  
Concen: 1.34 ng/ul  
RT: 8.85 min Scan# 1047  
Delta R.T. -0.02 min  
Lab File: BM001862.D  
Acq: 07 Jul 2015 11:17

Tgt Ion: 77 Resp: 5542  
Ion Ratio Lower Upper  
77 100  
123 13.6 34.0 51.0#  
65 65.4 11.3 16.9#

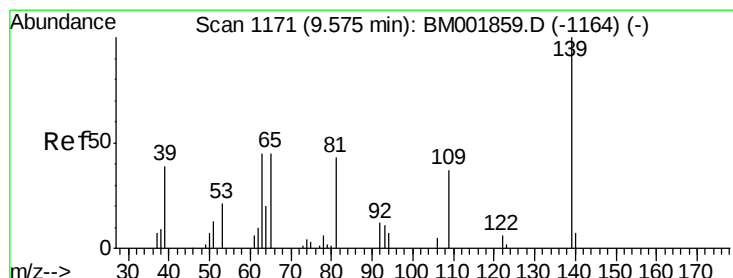
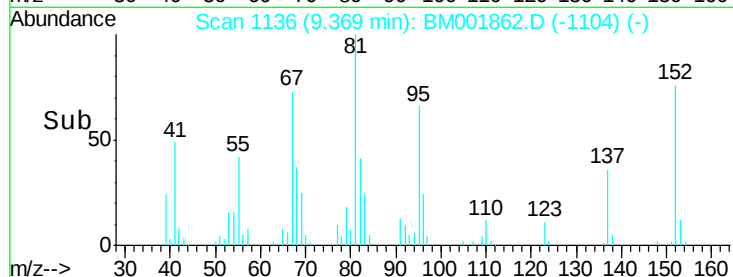
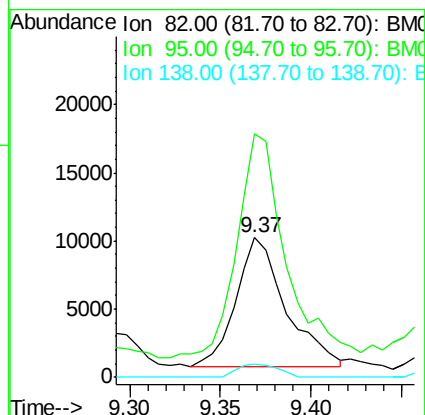
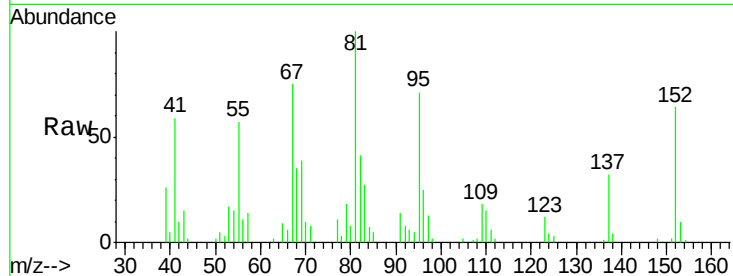




#21  
Isophorone  
Concen: 2.62 ng/ul  
RT: 9.37 min Scan# 1136  
Delta R.T. -0.01 min  
Lab File: BM001862.D  
Acq: 07 Jul 2015 11:17

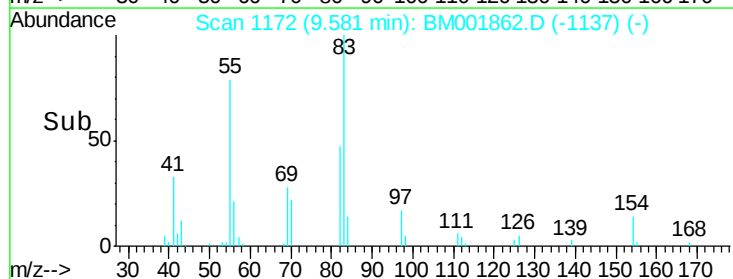
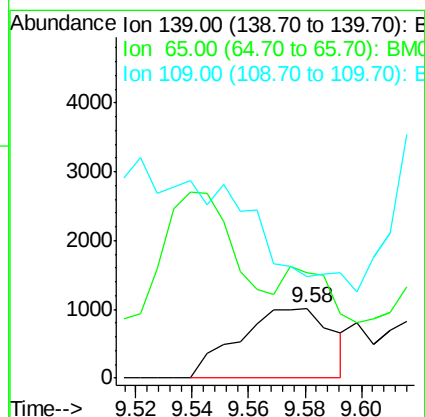
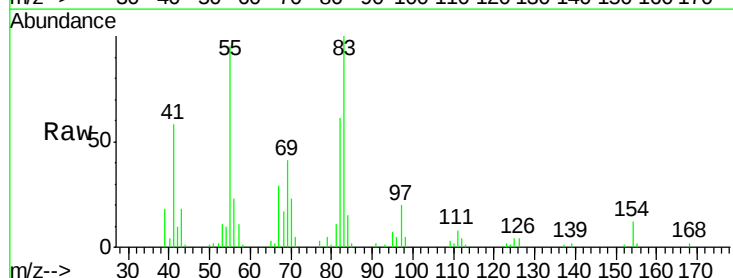
Instrument :  
BNA\_M  
ClientSampled :  
G93L3MS

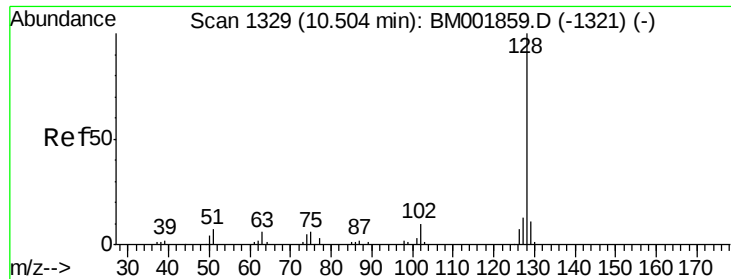
Tgt Ion: 82 Resp: 18023  
Ion Ratio Lower Upper  
82 100  
95 174.3 6.3 9.5#  
138 9.9 14.9 22.3#



#23  
2-Nitrophenol  
Concen: 1.27 ng/ul  
RT: 9.58 min Scan# 1172  
Delta R.T. 0.01 min  
Lab File: BM001862.D  
Acq: 07 Jul 2015 11:17

Tgt Ion: 139 Resp: 2315  
Ion Ratio Lower Upper  
139 100  
65 150.5 45.4 68.0#  
109 144.7 31.6 47.4#





#28

Naphthalene

Concen: 1.88 ng/ul

RT: 10.50 min Scan# 1329

Delta R.T. 0.00 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

G93L3MS

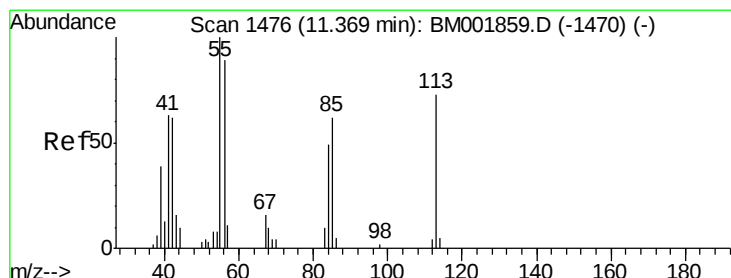
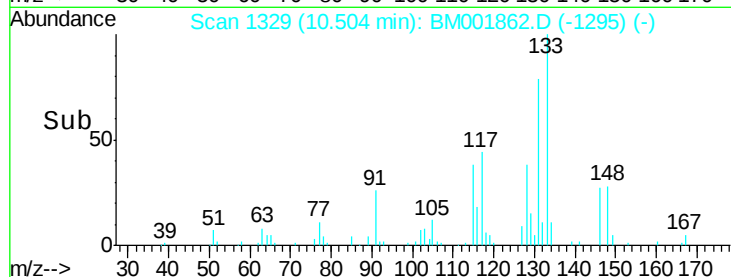
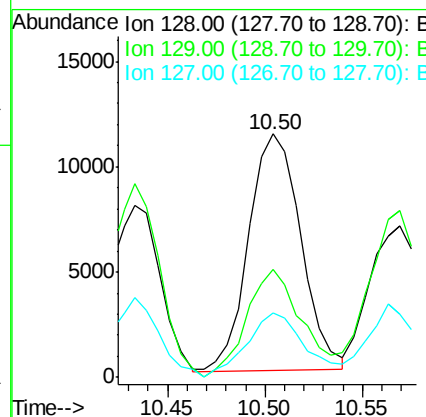
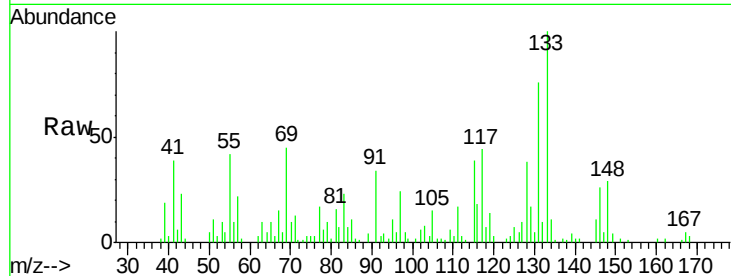
Tgt Ion:128 Resp: 20841

Ion Ratio Lower Upper

128 100

129 44.2 8.7 13.1#

127 26.2 10.0 15.0#



#32

Caprolactam

Concen: 2.84 ng/ul

RT: 11.38 min Scan# 1478

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

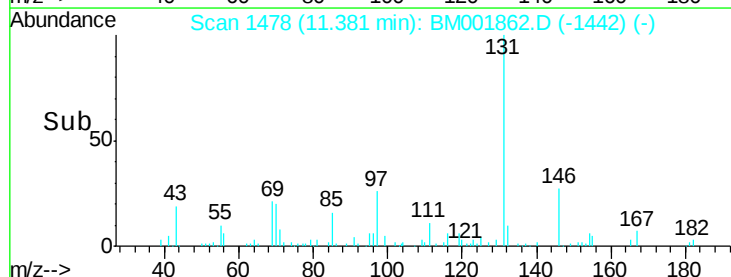
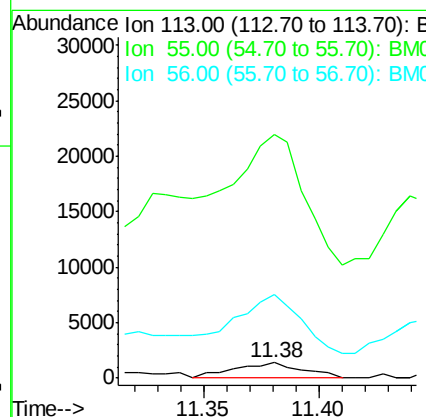
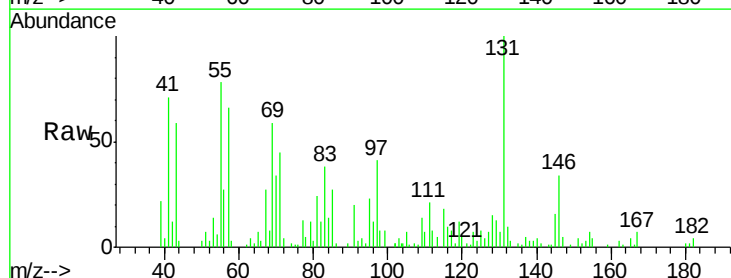
Tgt Ion:113 Resp: 2937

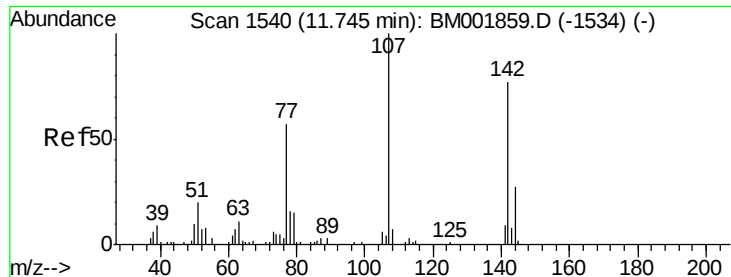
Ion Ratio Lower Upper

113 100

55 1549.2 123.3 184.9#

56 530.7 98.6 147.8#

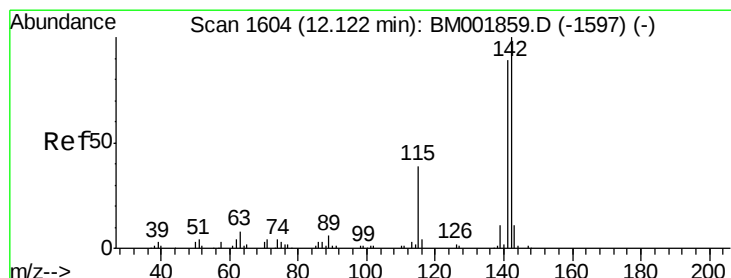
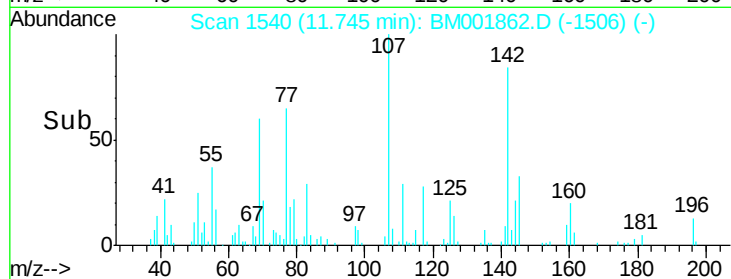
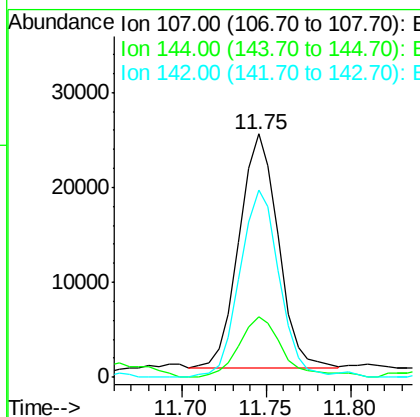
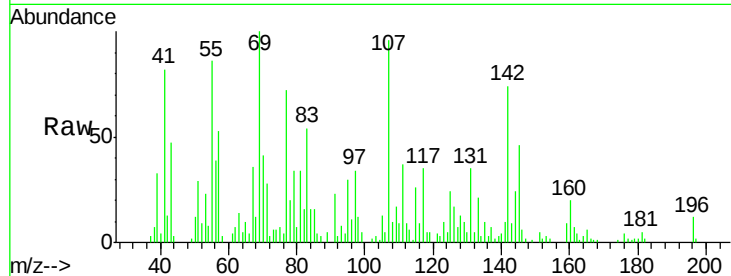




#33  
 4-Chloro-3-methylphenol  
 Concen: 10.89 ng/ul  
 RT: 11.75 min Scan# 1540  
 Delta R.T. 0.00 min  
 Lab File: BM001862.D  
 Acq: 07 Jul 2015 11:17

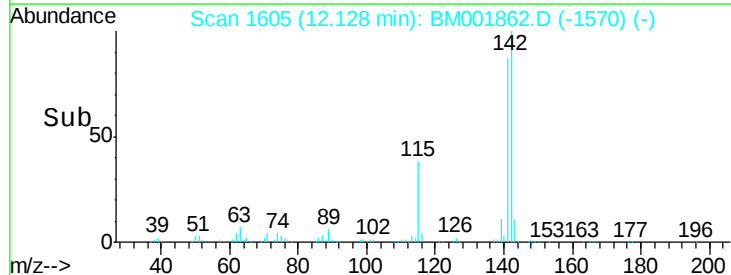
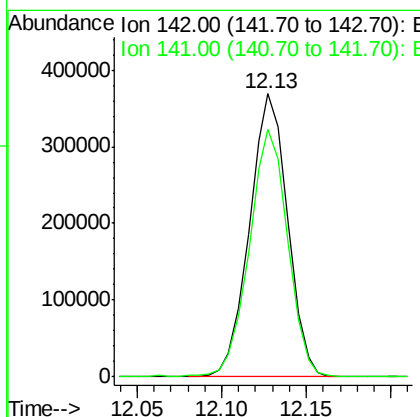
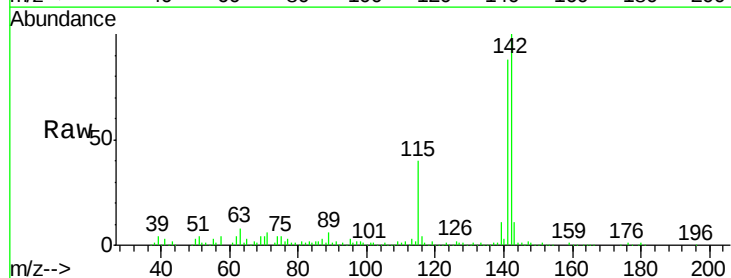
Instrument :  
 BNA\_M  
 ClientSampleId :  
 G93L3MS

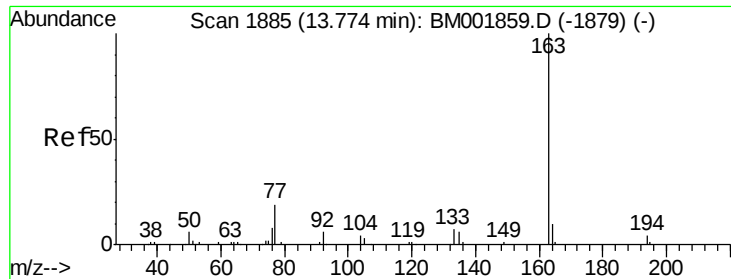
Tgt Ion:107 Resp: 40116  
 Ion Ratio Lower Upper  
 107 100  
 144 24.9 20.2 30.4  
 142 77.2 57.7 86.5



#34  
 2-Methylnaphthalene  
 Concen: 71.62 ng/ul  
 RT: 12.13 min Scan# 1605  
 Delta R.T. 0.01 min  
 Lab File: BM001862.D  
 Acq: 07 Jul 2015 11:17

Tgt Ion:142 Resp: 575648  
 Ion Ratio Lower Upper  
 142 100  
 141 87.6 71.6 107.4





#44

Dimethylphthalate

Concen: 3.76 ng/ul

RT: 13.78 min Scan# 1886

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

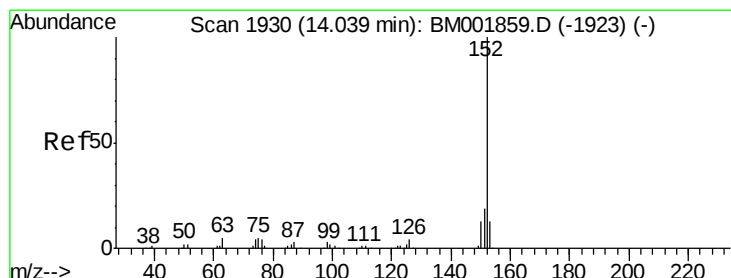
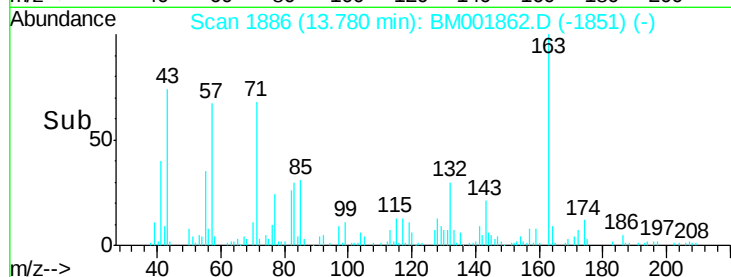
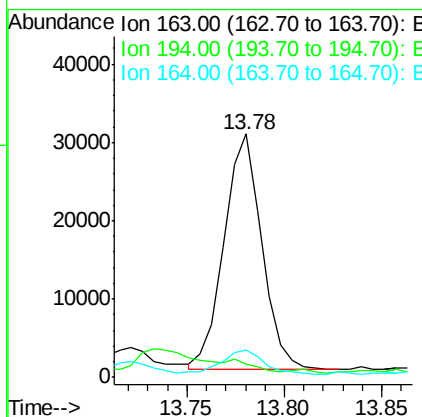
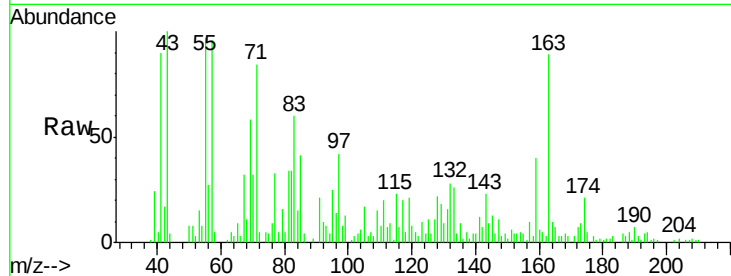
Instrument :

BNA\_M

ClientSampleId :

G93L3MS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 163   | Resp: | 39992 |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 5.6   | 3.6   | 5.4#  |
| 164      | 11.2  | 8.0   | 12.0  |



#47

Acenaphthylene

Concen: 2.72 ng/ul

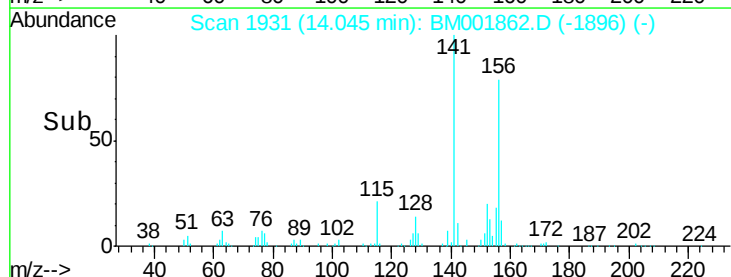
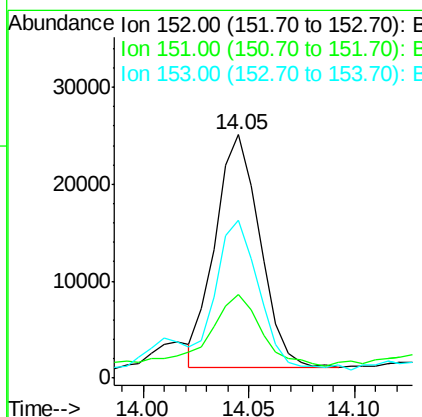
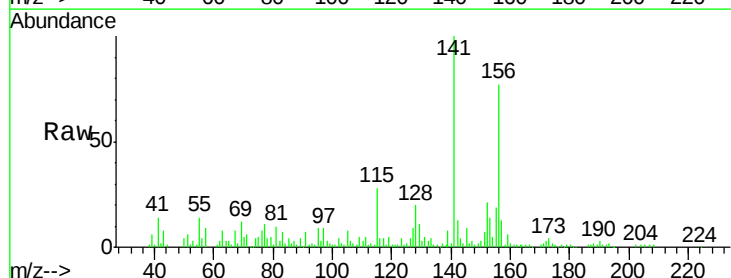
RT: 14.05 min Scan# 1931

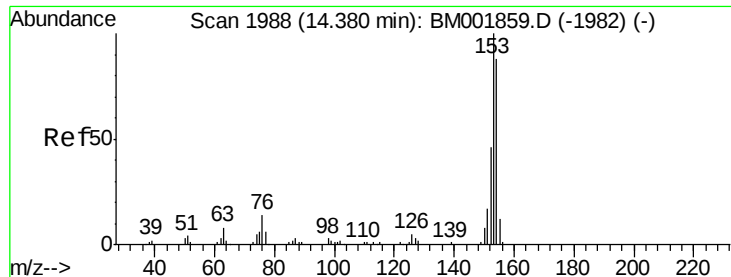
Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 35302 |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 34.2  | 15.9  | 23.9# |
| 153      | 65.1  | 10.0  | 15.0# |





#49

Acenaphthene

Concen: 19.08 ng/ul

RT: 14.39 min Scan# 1989

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

G93L3MS

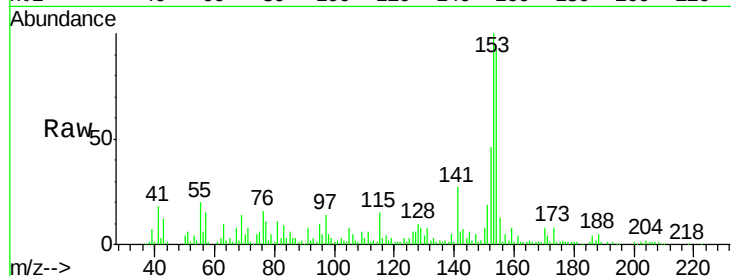
Tgt Ion:153 Resp: 165671

Ion Ratio Lower Upper

153 100

152 46.5 36.6 55.0

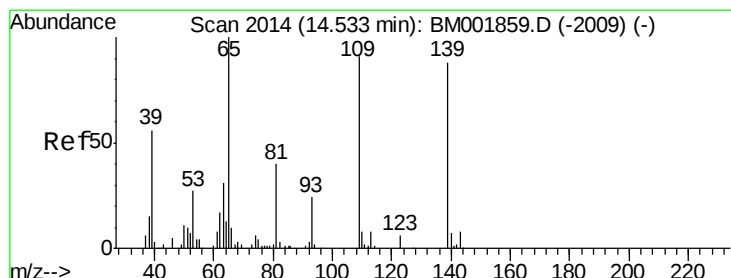
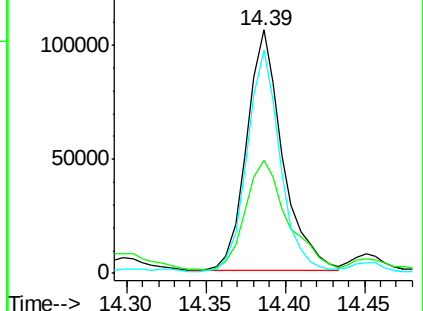
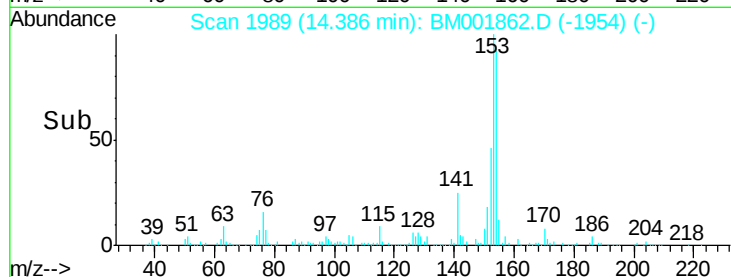
154 91.8 72.6 108.8



Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#52

4-Nitrophenol

Concen: 11.52 ng/ul

RT: 14.54 min Scan# 2015

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

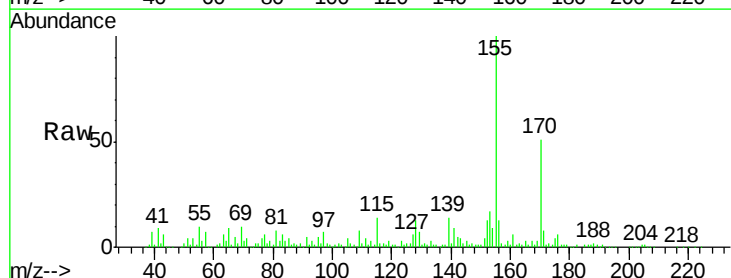
Tgt Ion:109 Resp: 21340

Ion Ratio Lower Upper

109 100

139 166.2 81.7 122.5#

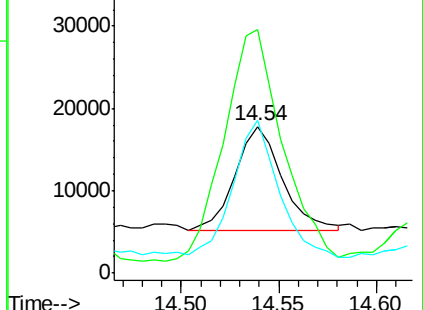
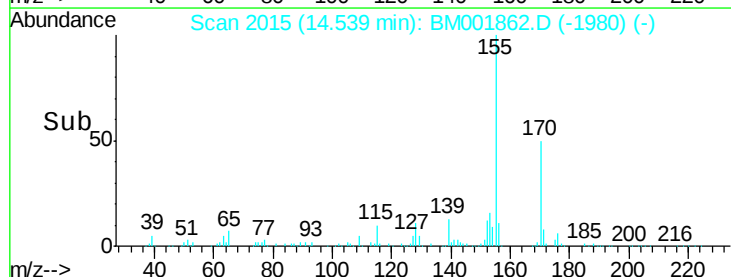
65 104.3 94.3 141.5

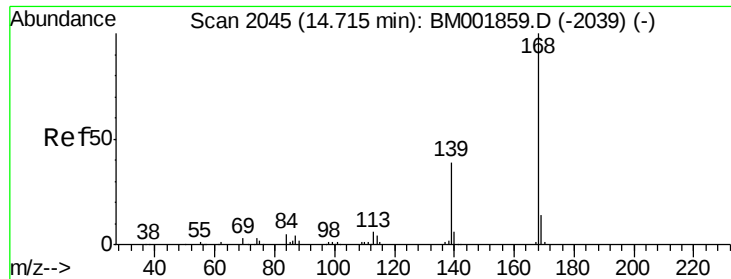


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BM





#53

Dibenzenofuran

Concen: 3.32 ng/ul

RT: 14.72 min Scan# 2046

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

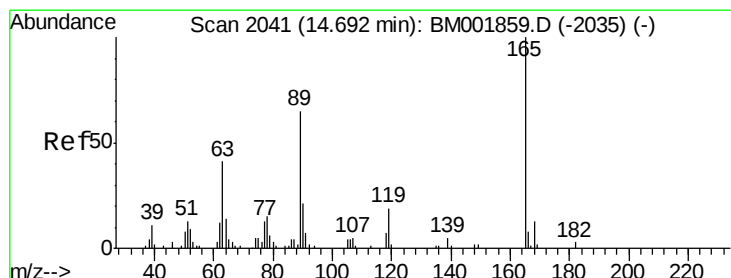
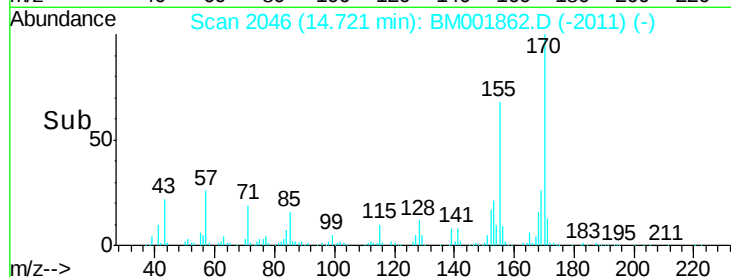
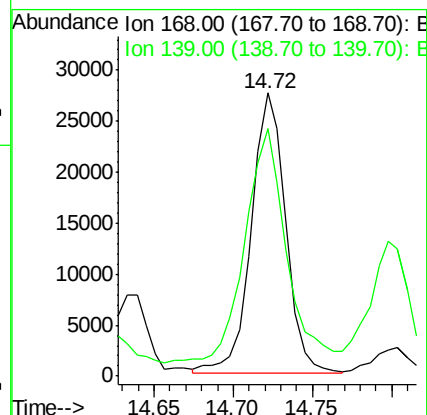
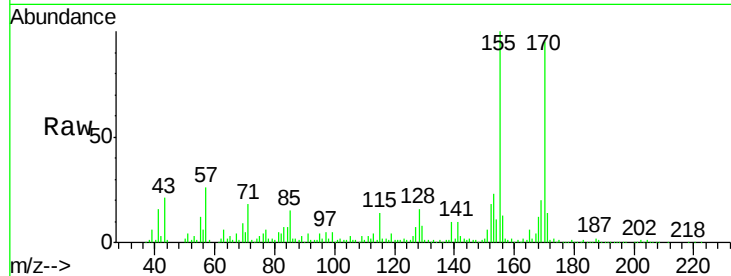
G93L3MS

Tgt Ion:168 Resp: 41222

Ion Ratio Lower Upper

168 100

139 87.2 30.1 45.1#



#54

2,4-Dinitrotoluene

Concen: 16.52 ng/ul

RT: 14.70 min Scan# 2042

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

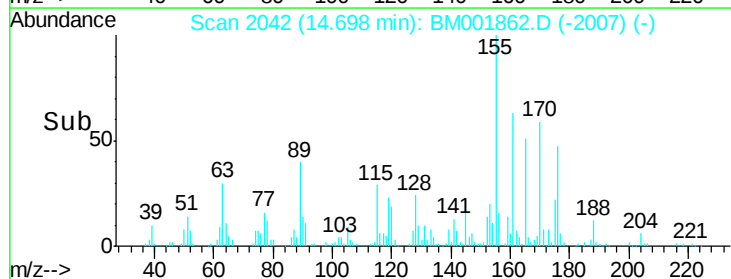
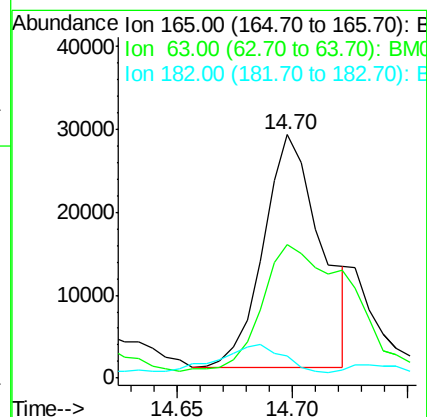
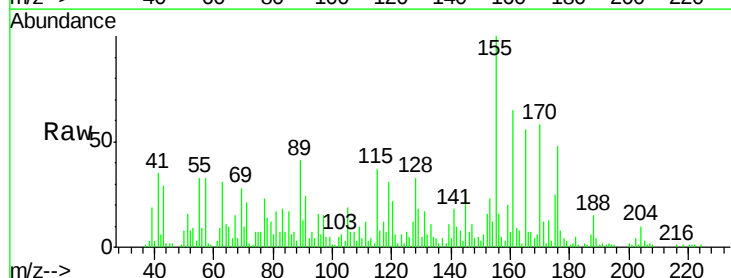
Tgt Ion:165 Resp: 48662

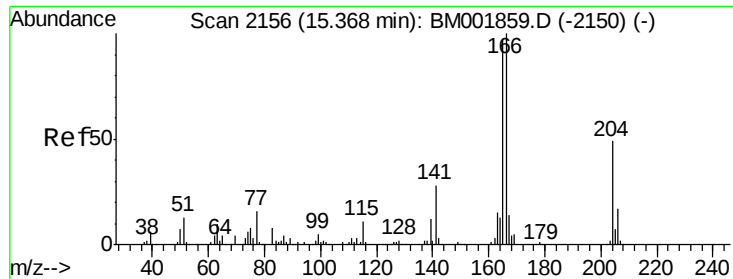
Ion Ratio Lower Upper

165 100

63 54.6 35.4 53.2#

182 9.0 2.1 3.1#





#58

Fluorene

Concen: 7.57 ng/ul

RT: 15.37 min Scan# 2157

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

G93L3MS

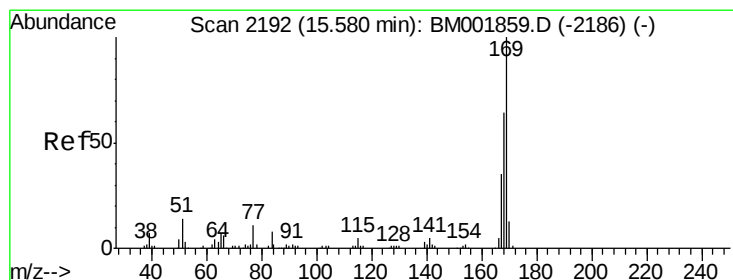
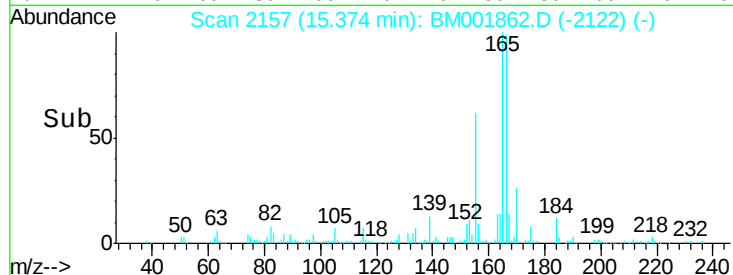
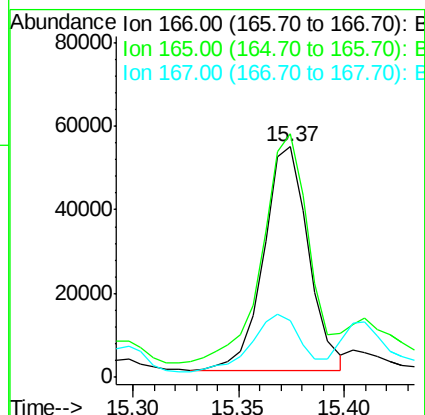
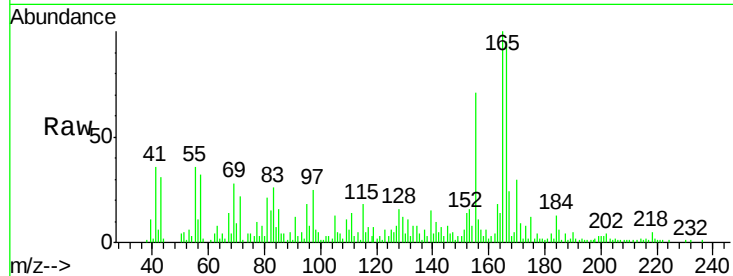
Tgt Ion:166 Resp: 78331

Ion Ratio Lower Upper

166 100

165 105.6 77.4 116.2

167 24.9 11.3 16.9#



#64

N-Nitrosodiphenylamine

Concen: 14.55 ng/ul

RT: 15.59 min Scan# 2193

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

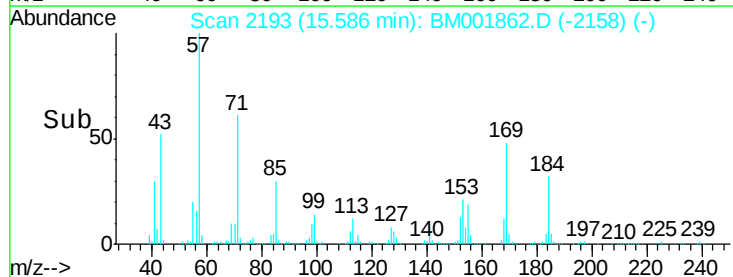
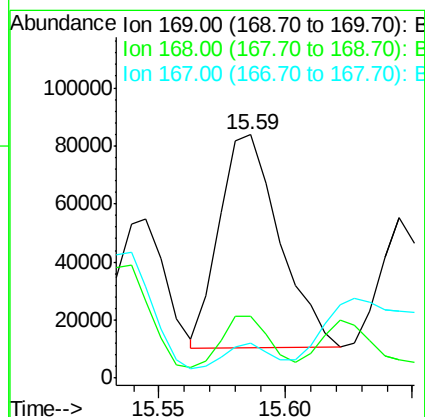
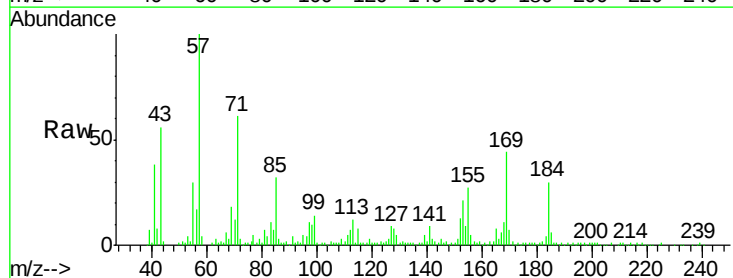
Tgt Ion:169 Resp: 121320

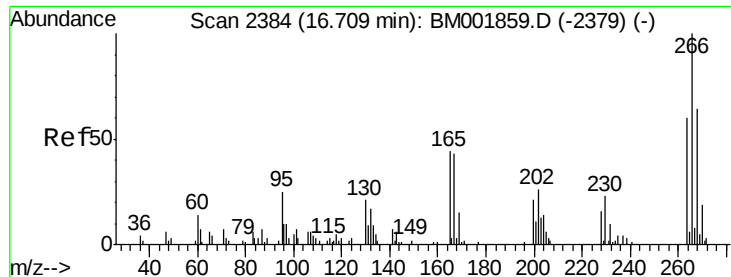
Ion Ratio Lower Upper

169 100

168 25.2 52.9 79.3#

167 14.3 27.5 41.3#

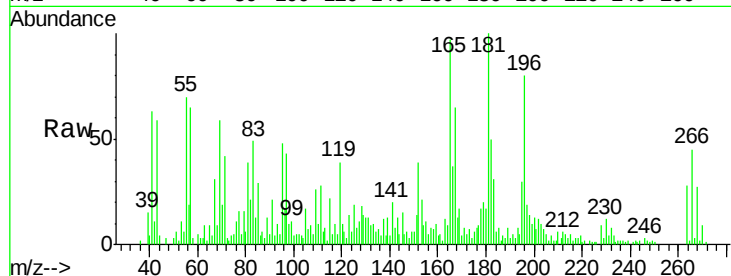




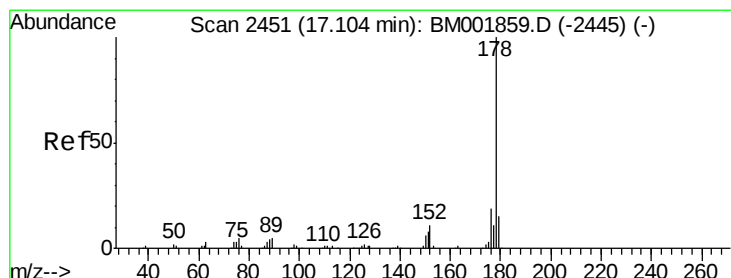
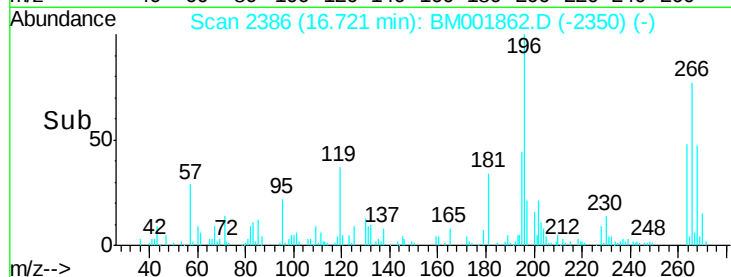
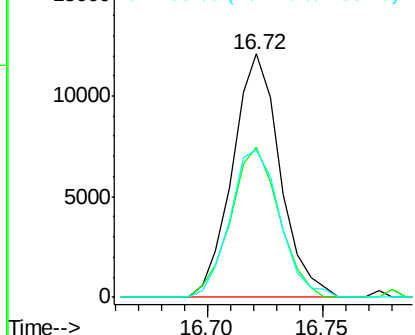
#68  
 Pentachlorophenol  
 Concen: 7.94 ng/ul  
 RT: 16.72 min Scan# 2386  
 Delta R.T. 0.01 min  
 Lab File: BM001862.D  
 Acq: 07 Jul 2015 11:17

Instrument :  
 BNA\_M  
 ClientSampleId :  
 G93L3MS

Tgt Ion:266 Resp: 17404  
 Ion Ratio Lower Upper  
 266 100  
 264 61.6 50.8 76.2  
 268 60.8 52.0 78.0

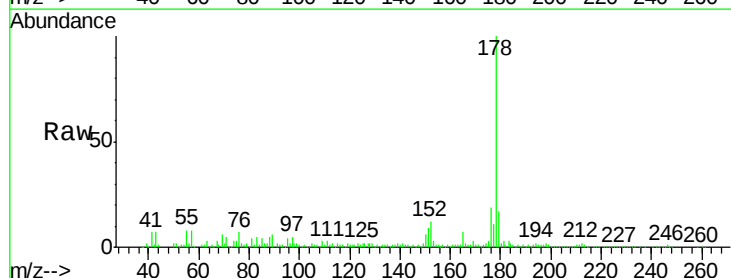


Abundance Ion 265.70 (265.40 to 266.40): E  
 Ion 264.00 (263.70 to 264.70): E  
 Ion 268.00 (267.70 to 268.70): E

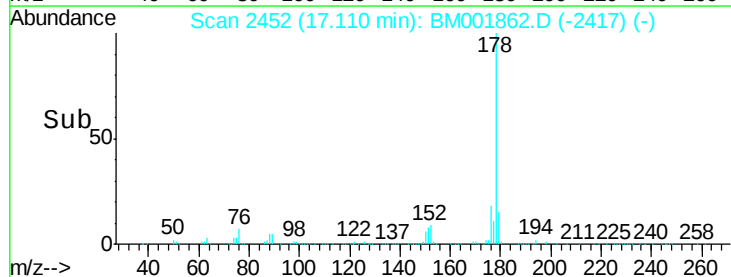
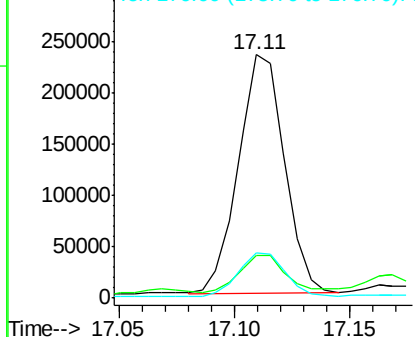


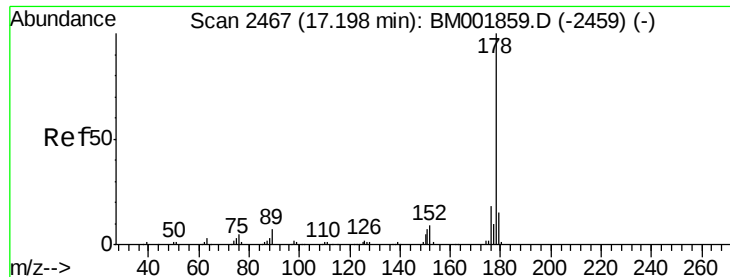
#69  
 Phenanthrene  
 Concen: 21.01 ng/ul  
 RT: 17.11 min Scan# 2452  
 Delta R.T. 0.01 min  
 Lab File: BM001862.D  
 Acq: 07 Jul 2015 11:17

Tgt Ion:178 Resp: 325042  
 Ion Ratio Lower Upper  
 178 100  
 179 17.4 11.9 17.9  
 176 18.5 15.2 22.8



Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 20.39 ng/ul

RT: 17.11 min Scan# 2452

Delta R.T. -0.09 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

G93L3MS

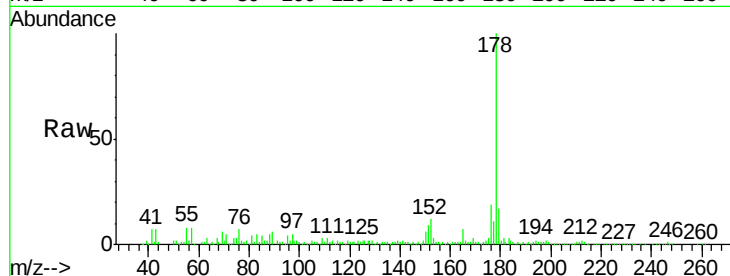
Tgt Ion:178 Resp: 323928

Ion Ratio Lower Upper

178 100

179 17.4 11.8 17.8

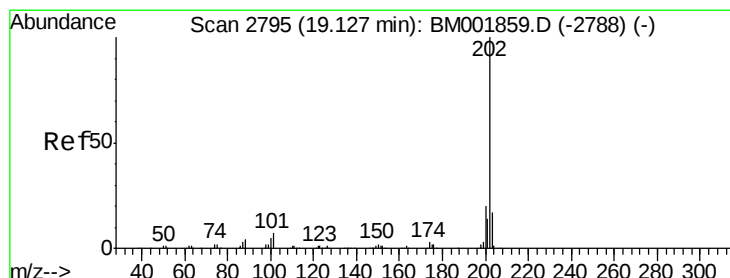
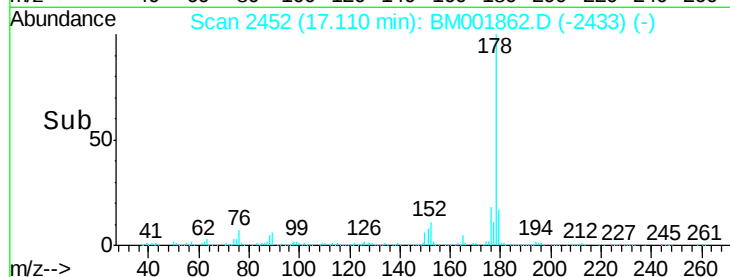
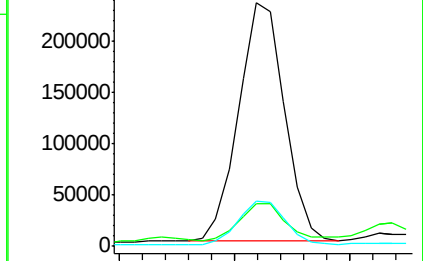
176 18.5 14.4 21.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#76

Fluoranthene

Concen: 8.90 ng/ul

RT: 19.13 min Scan# 2796

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

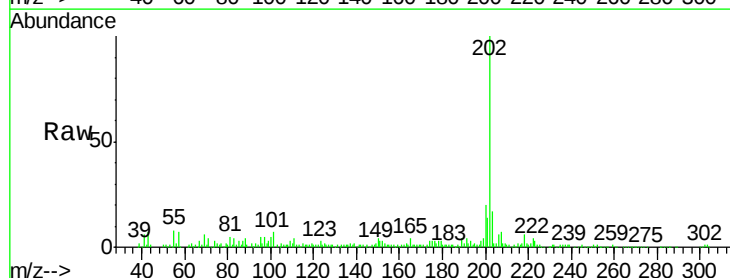
Tgt Ion:202 Resp: 164700

Ion Ratio Lower Upper

202 100

101 7.0 6.1 9.1

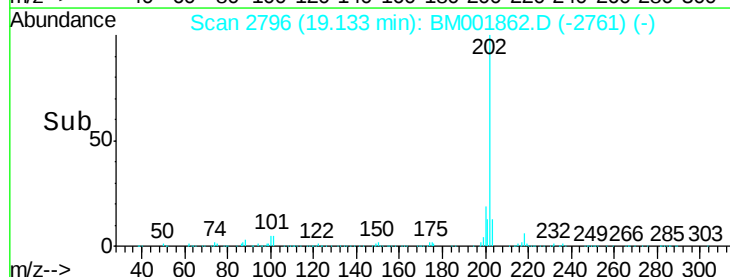
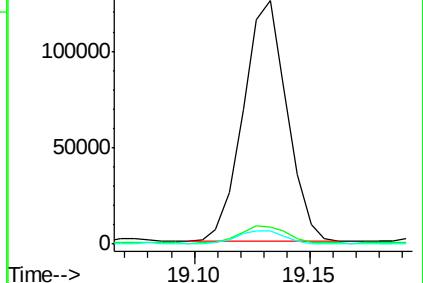
100 5.4 4.8 7.2

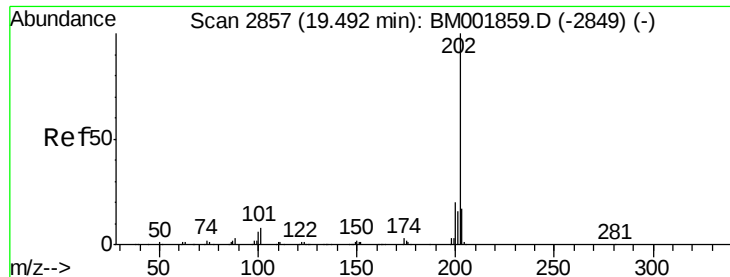


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

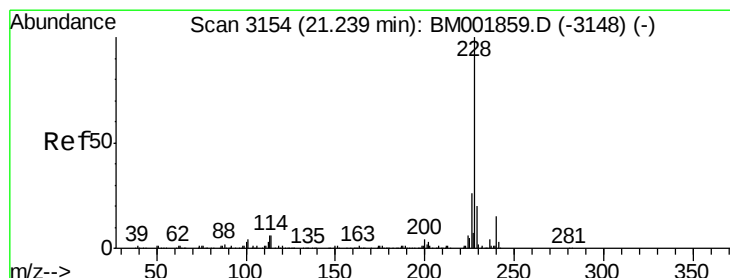
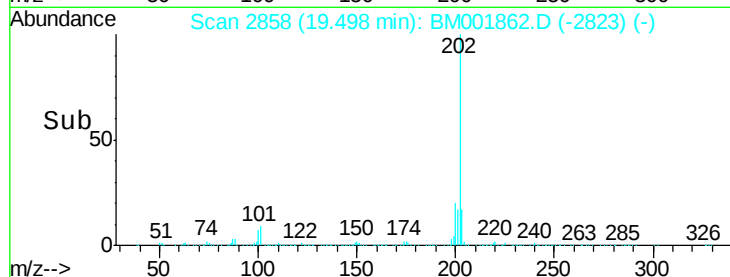
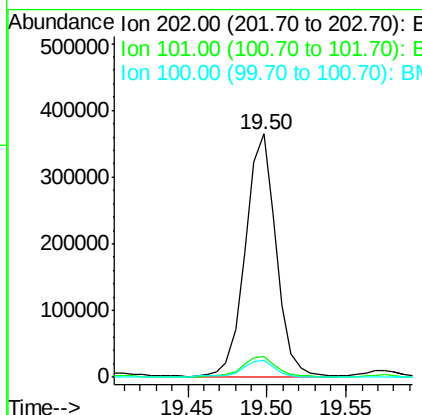
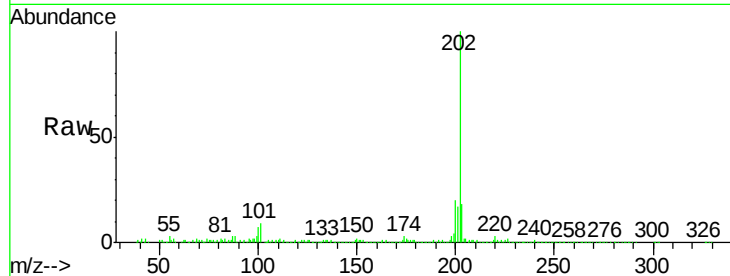




#79  
 Pyrene  
 Concen: 26.28 ng/ul  
 RT: 19.50 min Scan# 2858  
 Delta R.T. 0.01 min  
 Lab File: BM001862.D  
 Acq: 07 Jul 2015 11:17

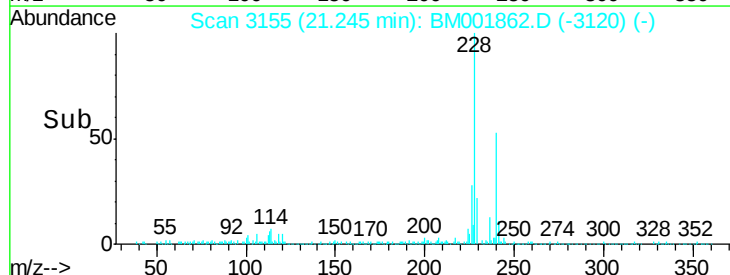
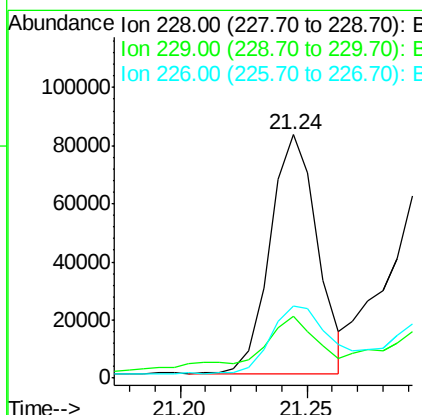
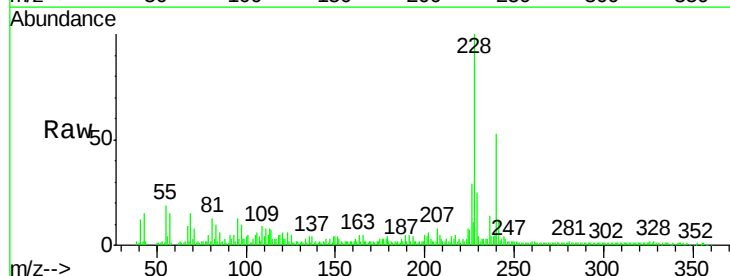
Instrument :  
 BNA\_M  
 ClientSampleId :  
 G93L3MS

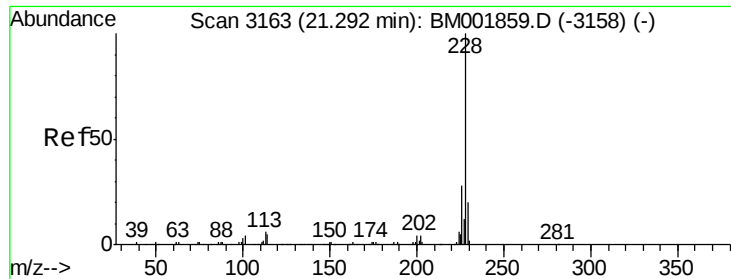
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.6   | 6.9   | 10.3  |
| 100     | 6.9   | 6.2   | 9.2   |



#82  
 Benzo(a)anthracene  
 Concen: 5.50 ng/ul  
 RT: 21.24 min Scan# 3155  
 Delta R.T. 0.01 min  
 Lab File: BM001862.D  
 Acq: 07 Jul 2015 11:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 25.4  | 15.4  | 23.0# |
| 226     | 29.4  | 20.6  | 30.8  |





#84

Chrysene

Concen: 6.11 ng/ul

RT: 21.30 min Scan# 3164

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

G93L3MS

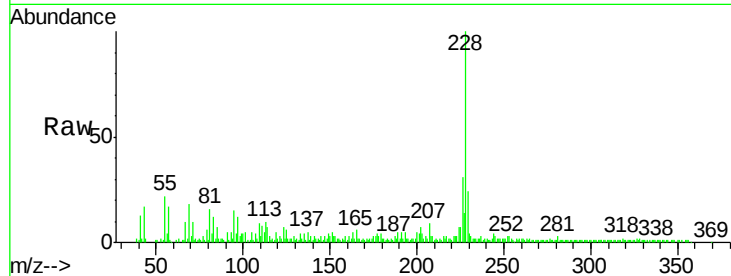
Tgt Ion:228 Resp: 112813

Ion Ratio Lower Upper

228 100

226 31.1 23.0 34.4

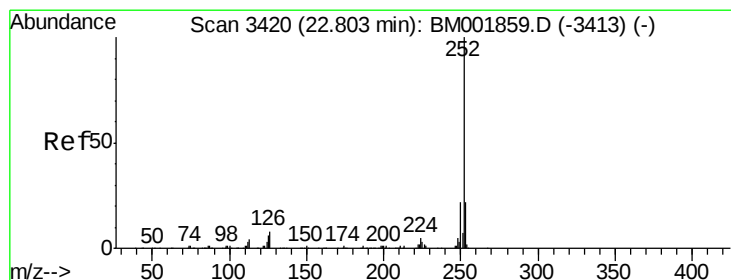
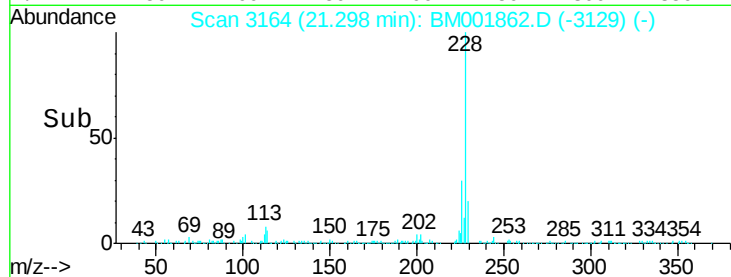
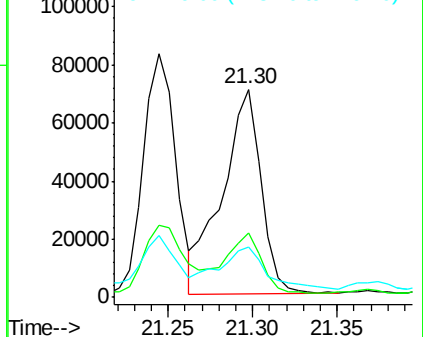
229 23.9 15.4 23.2#



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



#87

Benzo(b)fluoranthene

Concen: 8.63 ng/ul

RT: 22.82 min Scan# 3423

Delta R.T. 0.02 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

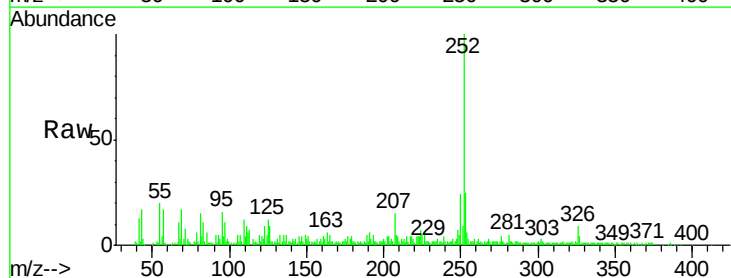
Tgt Ion:252 Resp: 175610

Ion Ratio Lower Upper

252 100

253 24.6 17.8 26.6

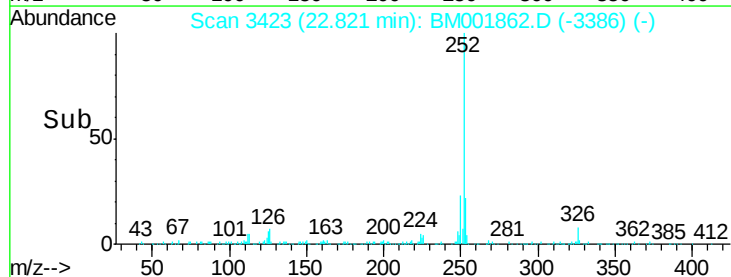
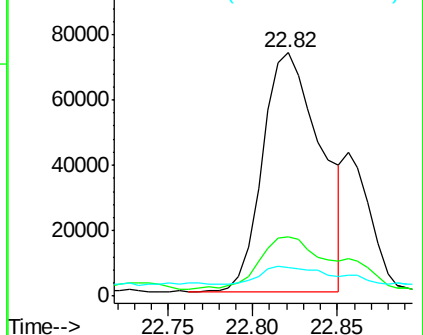
125 11.6 5.3 7.9#

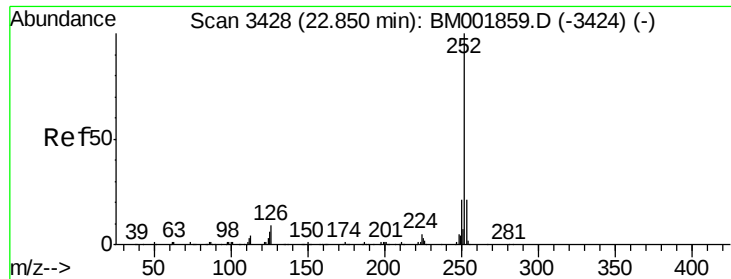


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

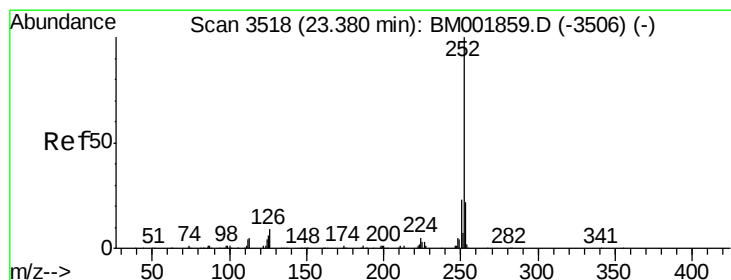
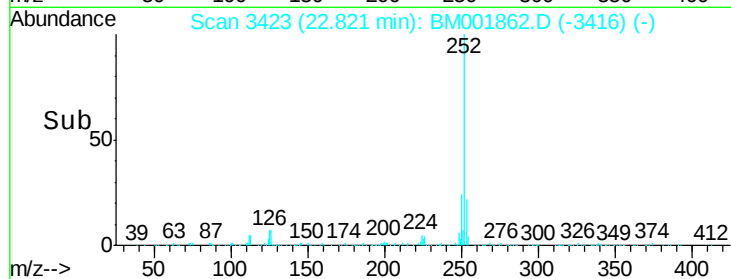
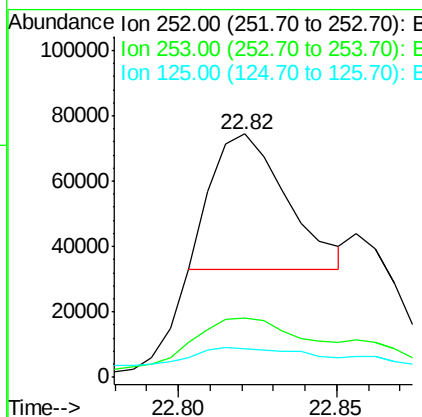
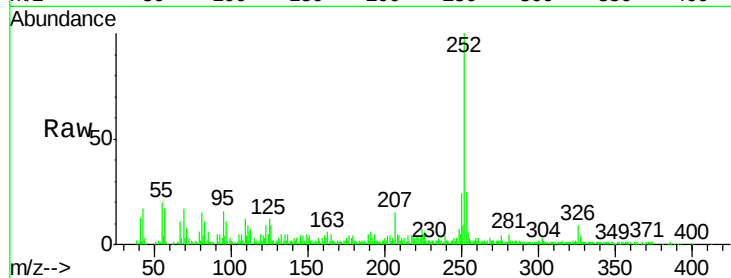




#88  
Benzo(k)fluoranthene  
Concen: 3.47 ng/ul  
RT: 22.82 min Scan# 3423  
Delta R.T. -0.03 min  
Lab File: BM001862.D  
Acq: 07 Jul 2015 11:17

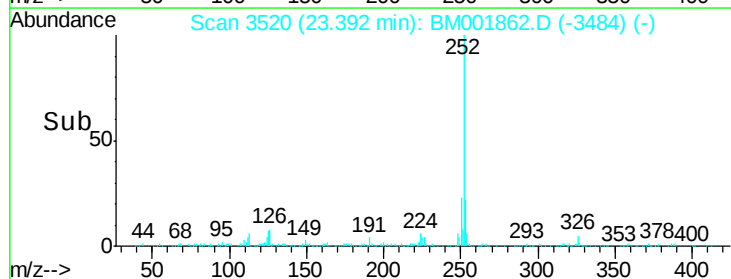
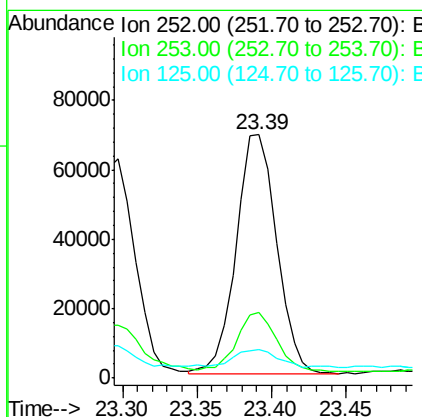
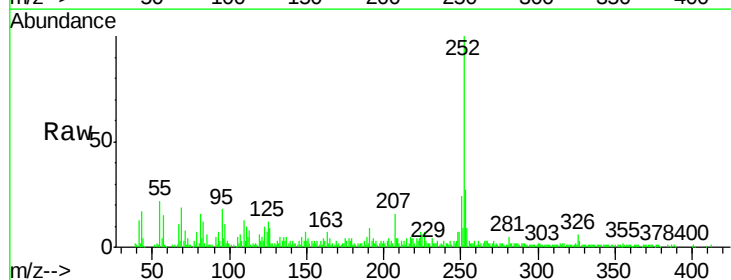
Instrument :  
BNA\_M  
ClientSampleId :  
G93L3MS

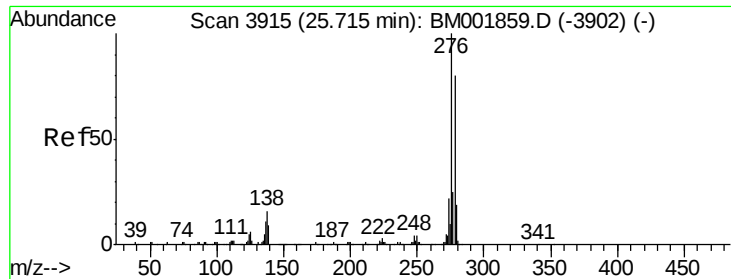
Tgt Ion:252 Resp: 68204  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.1 25.7  
125 11.6 5.3 7.9#



#90  
Benzo(a)pyrene  
Concen: 6.59 ng/ul  
RT: 23.39 min Scan# 3520  
Delta R.T. 0.01 min  
Lab File: BM001862.D  
Acq: 07 Jul 2015 11:17

Tgt Ion:252 Resp: 130337  
Ion Ratio Lower Upper  
252 100  
253 27.0 17.4 26.0#  
125 11.6 6.0 9.0#





#91

Indeno(1,2,3-cd)pyrene

Concen: 5.14 ng/ul

RT: 25.73 min Scan# 3918

Delta R.T. 0.02 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

G93L3MS

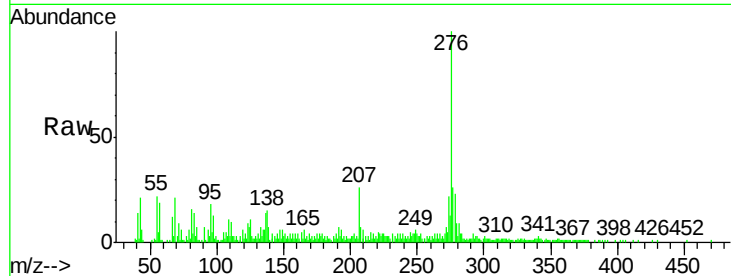
Tgt Ion: 276 Resp: 120583

Ion Ratio Lower Upper

276 100

138 15.2 14.7 22.1

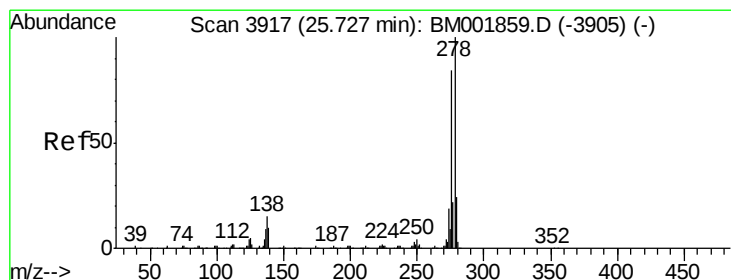
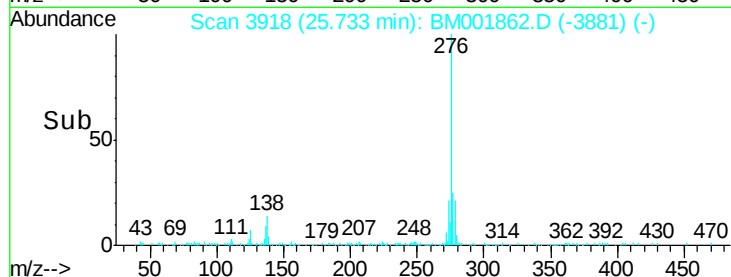
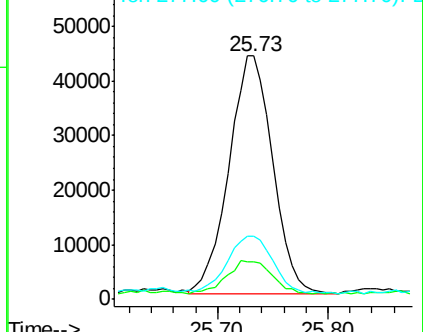
277 25.9 19.7 29.5



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



#92

Dibenzo(a,h)anthracene

Concen: 1.53 ng/ul

RT: 25.73 min Scan# 3918

Delta R.T. 0.01 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

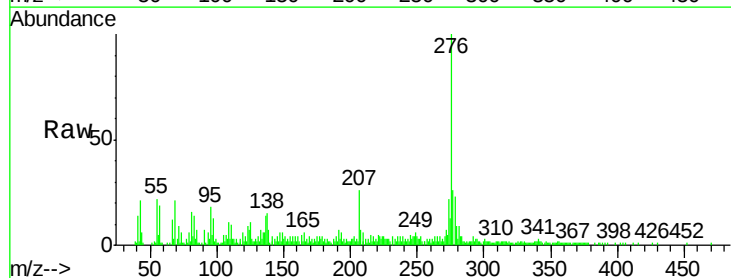
Tgt Ion: 278 Resp: 30210

Ion Ratio Lower Upper

278 100

139 29.0 9.2 13.8#

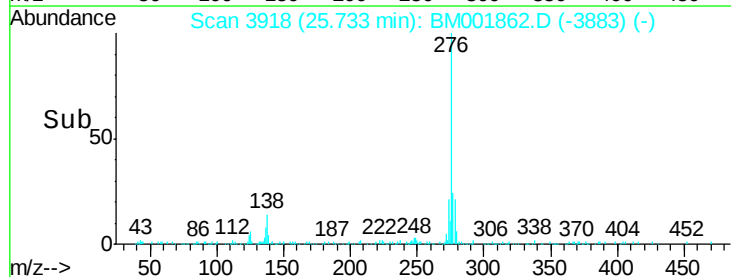
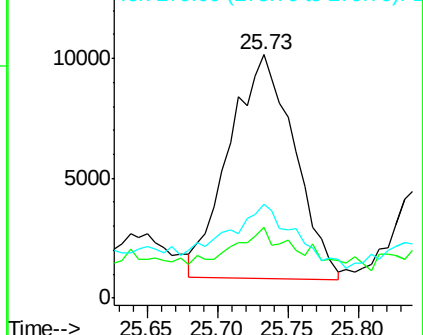
279 38.5 19.1 28.7#

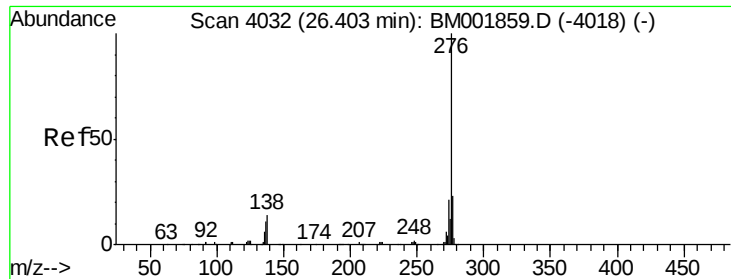


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#93

Benzo(g,h,i)perylene

Concen: 6.36 ng/ul

RT: 26.42 min Scan# 4035

Delta R.T. 0.02 min

Lab File: BM001862.D

Acq: 07 Jul 2015 11:17

Instrument :

BNA\_M

ClientSampleId :

G93L3MS

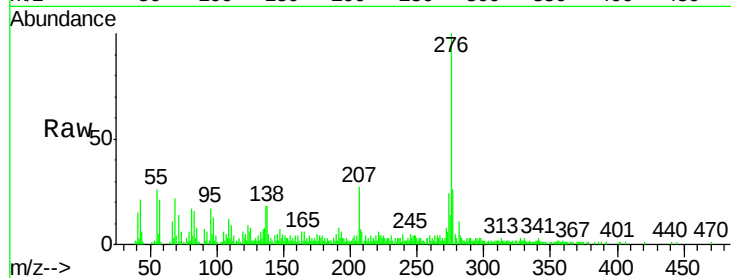
Tgt Ion: 276 Resp: 125463

Ion Ratio Lower Upper

276 100

138 17.9 12.6 19.0

277 25.9 18.7 28.1



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

