

Data File : BG038812.D  
Acq On : 22 Dec 2018 11:18  
Operator : JU/SJ  
Sample : J6505-05  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-59(0-23)-COMP

Quant Time: Dec 24 03:54:38 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG121218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 12 15:26:27 2018  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.06  | 152  | 27418    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.88 | 136  | 115948   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.70 | 164  | 79240    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.45 | 188  | 174150   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.73 | 240  | 162615   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 25.03 | 264  | 180109   | 20.00 | ng    | 0.00     |

|                             |       |     |        |        |    |      |
|-----------------------------|-------|-----|--------|--------|----|------|
| System Monitoring Compounds |       |     |        |        |    |      |
| 5) 2-Fluorophenol           | 5.61  | 112 | 178848 | 115.70 | ng | 0.01 |
| 7) Phenol-d6                | 7.22  | 99  | 255573 | 120.43 | ng | 0.02 |
| 23) Nitrobenzene-d5         | 9.24  | 82  | 159419 | 70.24  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 16.19 | 330 | 137179 | 125.61 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 13.32 | 172 | 428676 | 74.21  | ng | 0.00 |
| 79) Terphenyl-d14           | 20.05 | 244 | 613461 | 82.10  | ng | 0.00 |

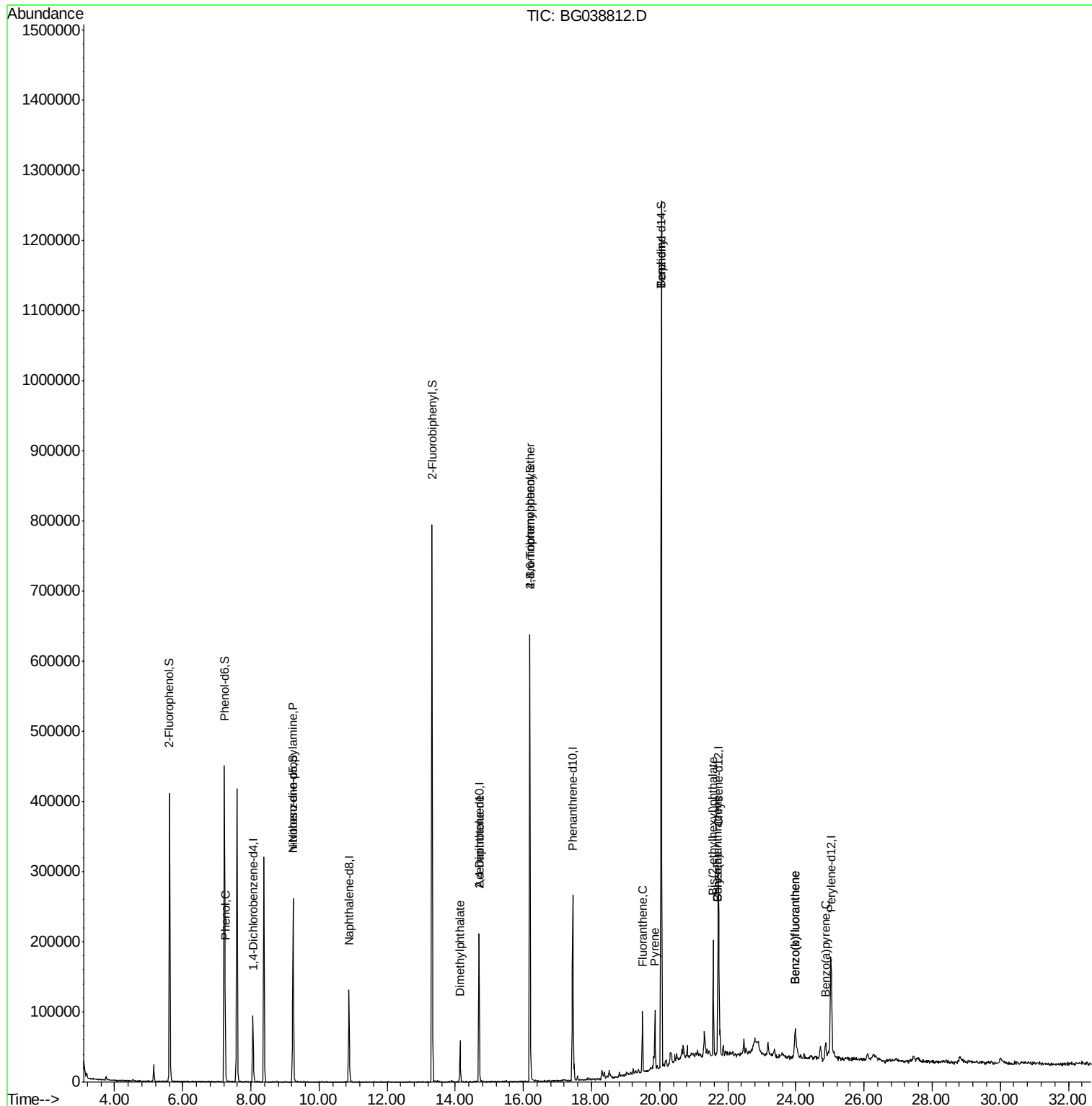
|                                |       |     |       |        |    |      |
|--------------------------------|-------|-----|-------|--------|----|------|
| Target Compounds               |       |     |       | Qvalue |    |      |
| 10) Phenol                     | 7.25  | 94  | 16151 | 7.164  | ng | 87   |
| 19) n-Nitroso-di-n-propylamine | 9.24  | 70  | 21905 | 14.697 | ng | # 69 |
| 50) Dimethylphthalate          | 14.14 | 163 | 43393 | 6.706  | ng | # 95 |
| 57) 2,4-Dinitrotoluene         | 14.69 | 165 | 10618 | 5.141  | ng | # 23 |
| 67) 4-Bromophenyl-phenylether  | 16.19 | 248 | 8650  | 4.067  | ng | # 1  |
| 75) Fluoranthene               | 19.50 | 202 | 59603 | 5.334  | ng | 98   |
| 77) Benzidine                  | 20.04 | 184 | 10396 | 2.162  | ng | # 95 |
| 78) Pyrene                     | 19.86 | 202 | 56624 | 5.271  | ng | 96   |
| 81) Benzo(a)anthracene         | 21.71 | 228 | 31169 | 3.146  | ng | 98   |
| 83) Chrysene                   | 21.71 | 228 | 31169 | 3.266  | ng | 96   |
| 84) Bis(2-ethylhexyl)phthalate | 21.57 | 149 | 68990 | 11.590 | ng | 99   |
| 88) Benzo(b)fluoranthene       | 23.98 | 252 | 40303 | 4.076  | ng | 96   |
| 89) Benzo(k)fluoranthene       | 23.98 | 252 | 40303 | 4.093  | ng | 97   |
| 90) Benzo(a)pyrene             | 24.87 | 252 | 29767 | 3.120  | ng | 96   |

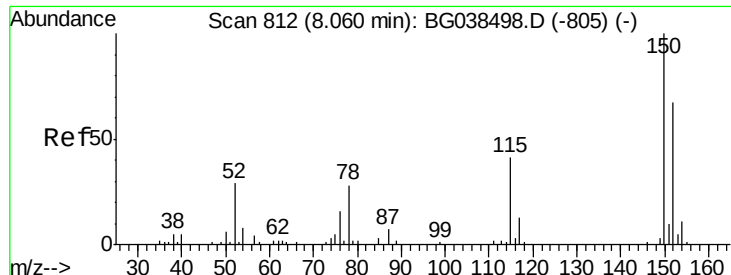
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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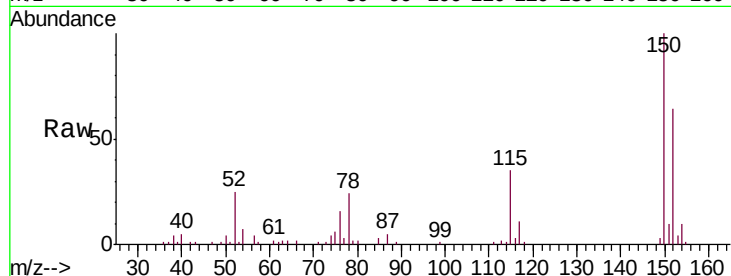


#1

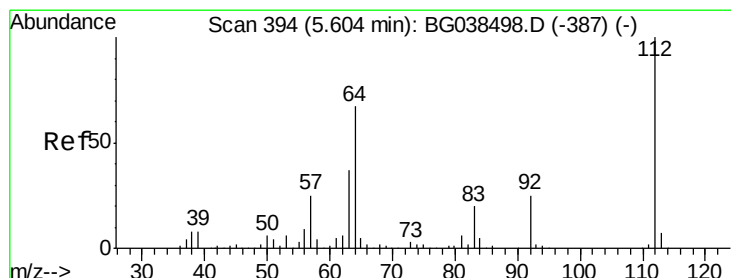
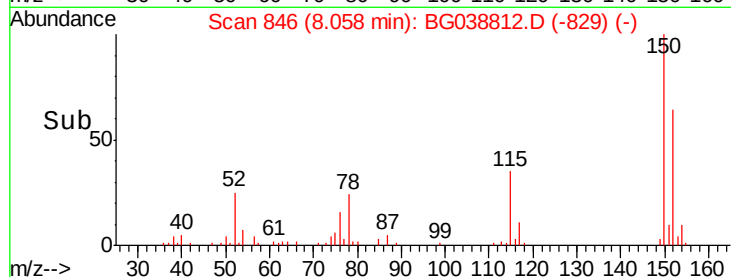
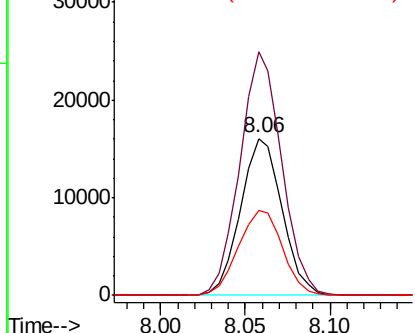
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 846  
Delta R.T. -0.00 min  
Lab File: BG038812.D  
Acq: 22 Dec 2018 11:18

Instrument :  
BNA\_G  
ClientSampleId :  
SB-59(0-23)-COMP

Tgt Ion:152 Resp: 27418  
Ion Ratio Lower Upper  
152 100  
150 155.4 119.5 179.3  
115 54.2 49.6 74.4



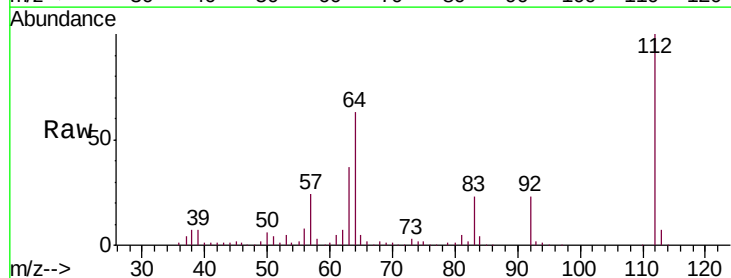
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



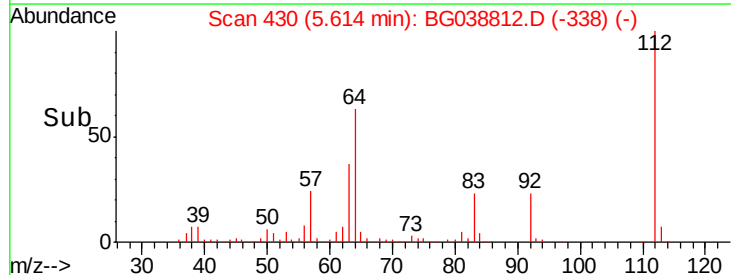
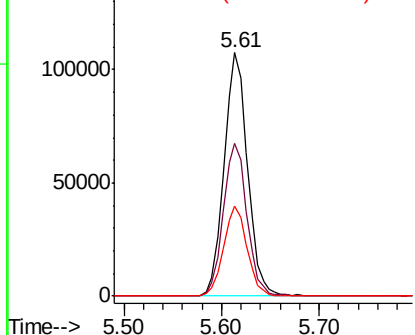
#5

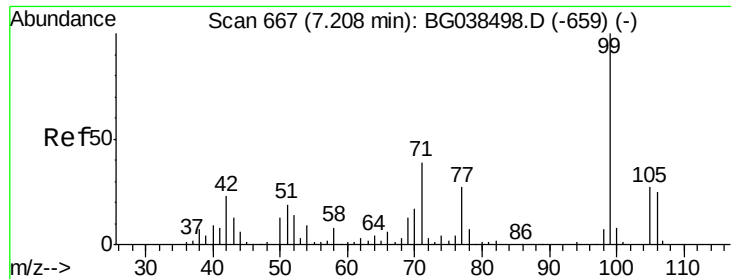
2-Fluorophenol  
Concen: 115.696 ng  
RT: 5.61 min Scan# 430  
Delta R.T. 0.01 min  
Lab File: BG038812.D  
Acq: 22 Dec 2018 11:18

Tgt Ion:112 Resp: 178848  
Ion Ratio Lower Upper  
112 100  
64 62.7 53.4 80.2  
63 36.9 29.3 43.9



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG  
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 120.431 ng

RT: 7.22 min Scan# 704

Delta R.T. 0.02 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

Instrument :

BNA\_G

ClientSampleId :

SB-59(0-23)-COMP

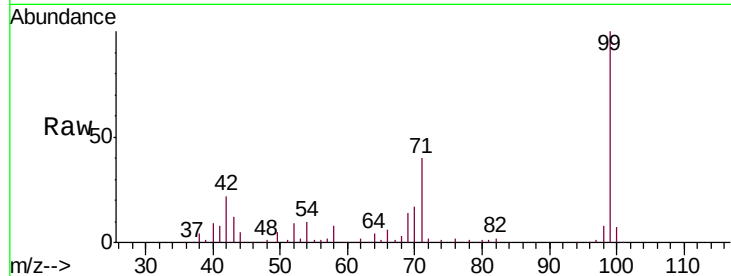
Tgt Ion: 99 Resp: 255573

Ion Ratio Lower Upper

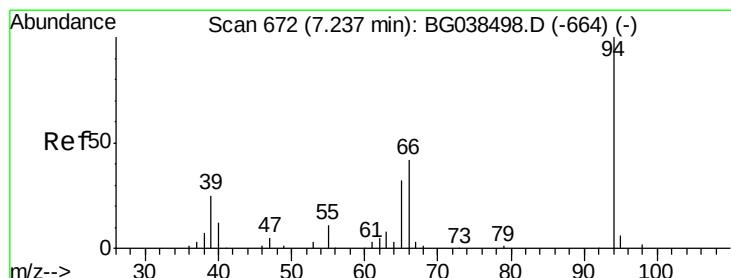
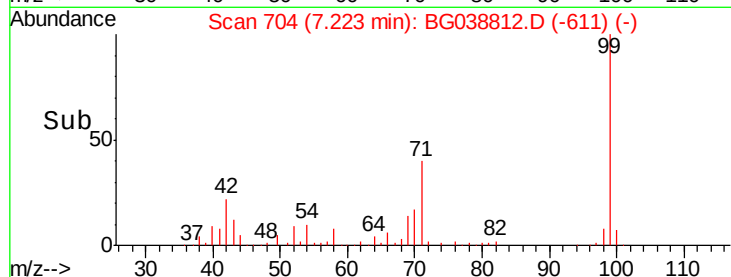
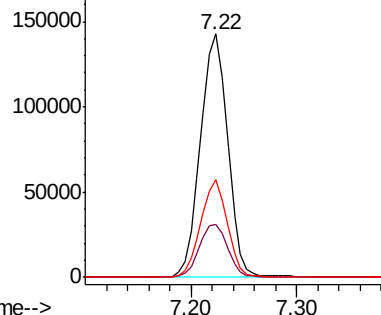
99 100

42 21.6 18.5 27.7

71 40.3 31.1 46.7



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



#10

Phenol

Concen: 7.164 ng

RT: 7.25 min Scan# 708

Delta R.T. 0.01 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

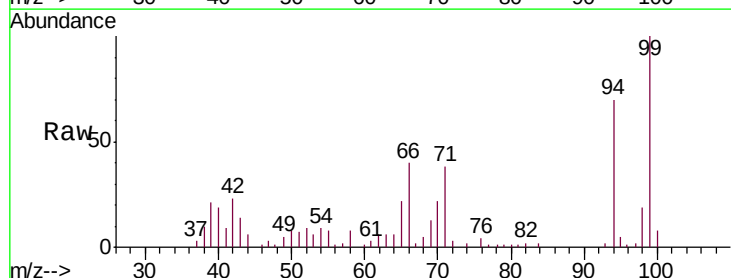
Tgt Ion: 94 Resp: 16151

Ion Ratio Lower Upper

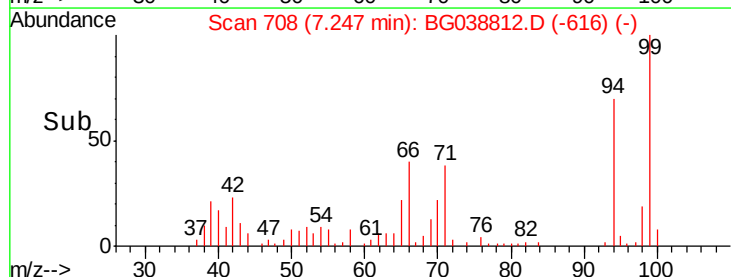
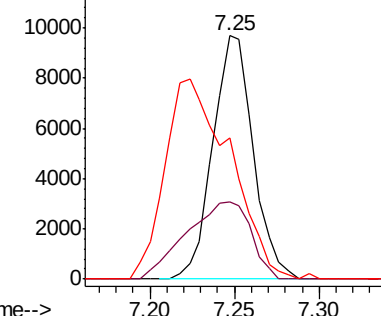
94 100

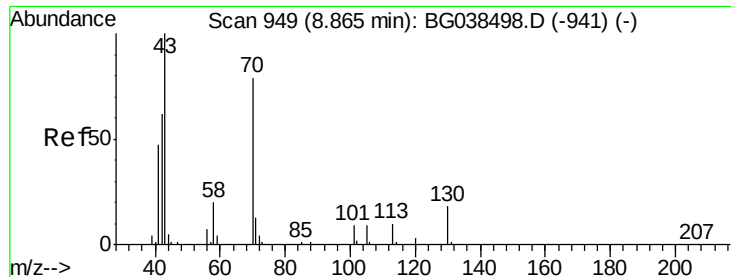
65 31.9 12.6 52.6

66 57.8 24.1 64.1



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

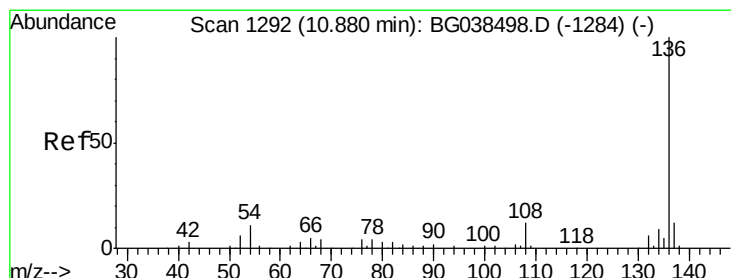
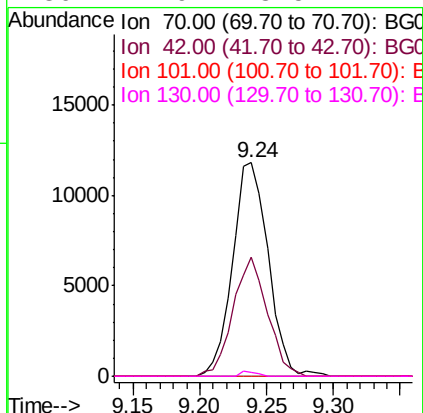
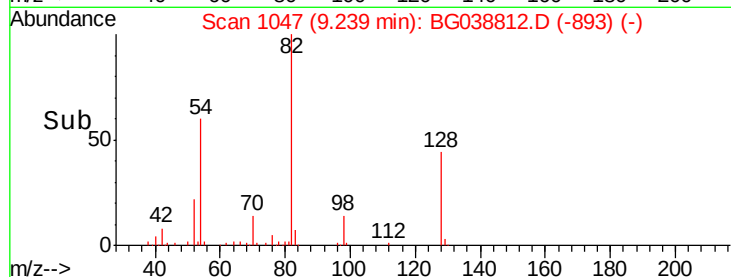
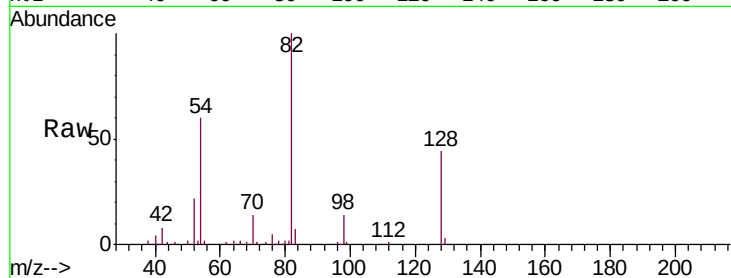




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.697 ng  
RT: 9.24 min Scan# 1047  
Delta R.T. 0.37 min  
Lab File: BG038812.D  
Acq: 22 Dec 2018 11:18

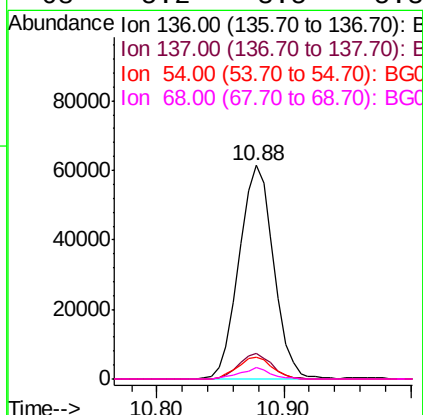
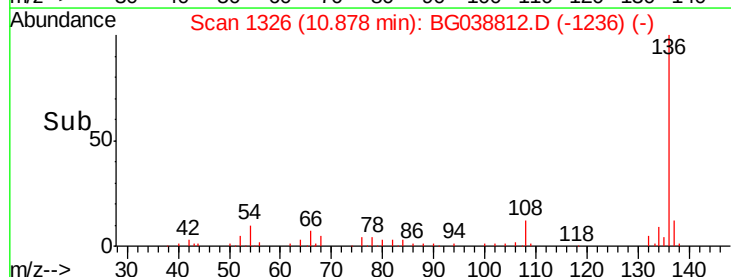
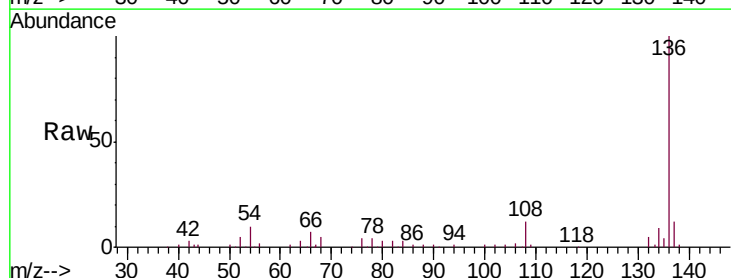
Instrument :  
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SB-59(0-23)-COMP

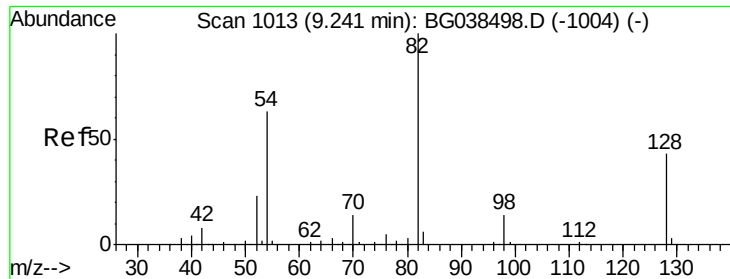
Tgt Ion: 70 Resp: 21905  
Ion Ratio Lower Upper  
70 100  
42 55.9 63.6 95.4#  
101 0.0 9.2 13.8#  
130 1.9 18.5 27.7#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1326  
Delta R.T. -0.00 min  
Lab File: BG038812.D  
Acq: 22 Dec 2018 11:18

Tgt Ion: 136 Resp: 115948  
Ion Ratio Lower Upper  
136 100  
137 11.8 9.3 13.9  
54 10.4 8.5 12.7  
68 5.2 3.5 5.3

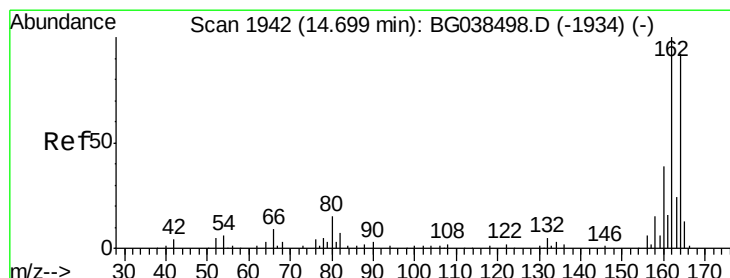
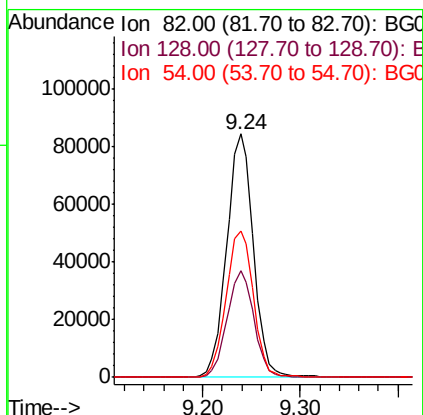
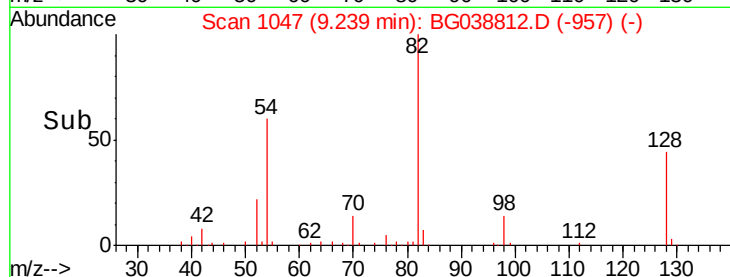
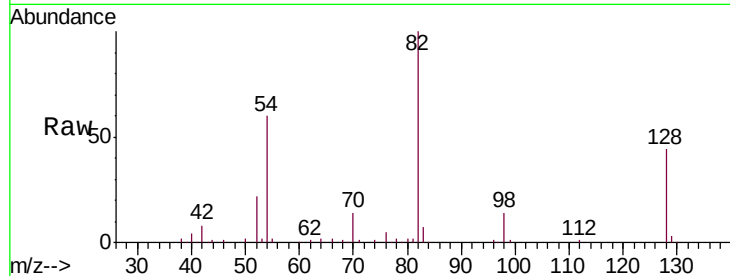




#23  
Nitrobenzene-d5  
Concen: 70.241 ng  
RT: 9.24 min Scan# 1047  
Delta R.T. -0.00 min  
Lab File: BG038812.D  
Acq: 22 Dec 2018 11:18

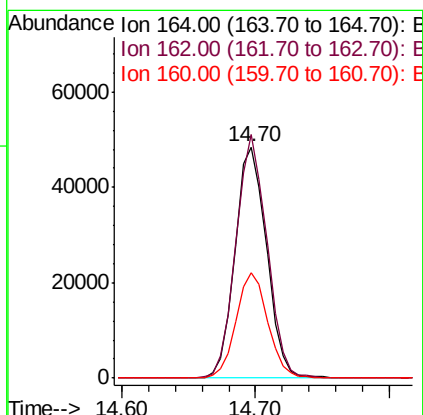
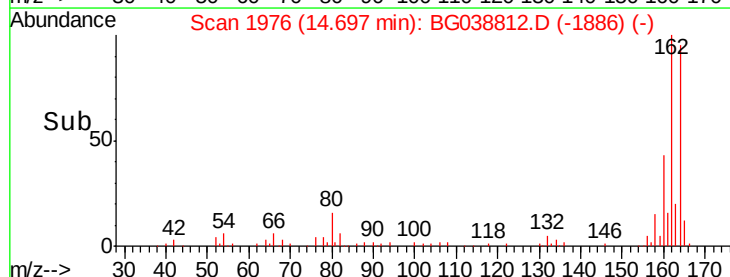
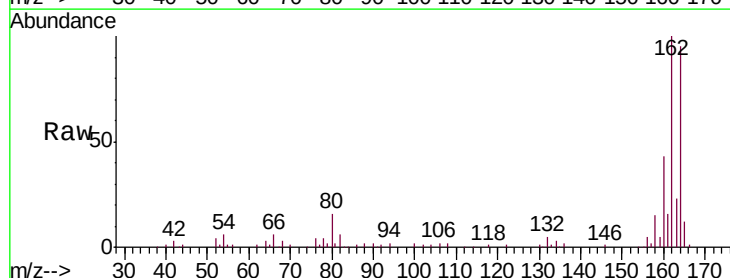
Instrument :  
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SB-59(0-23)-COMP

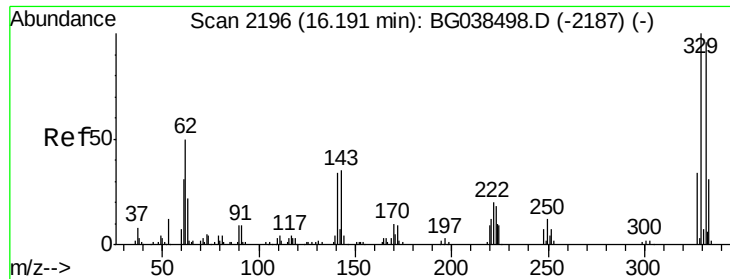
Tgt Ion: 82 Resp: 159419  
Ion Ratio Lower Upper  
82 100  
128 43.9 34.6 52.0  
54 59.9 50.6 76.0



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.70 min Scan# 1976  
Delta R.T. -0.00 min  
Lab File: BG038812.D  
Acq: 22 Dec 2018 11:18

Tgt Ion: 164 Resp: 79240  
Ion Ratio Lower Upper  
164 100  
162 105.3 86.6 130.0  
160 45.6 34.2 51.2

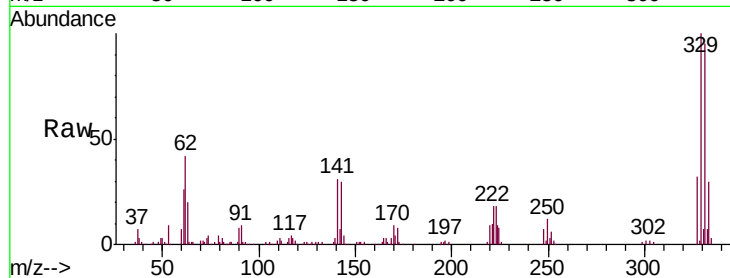




#42  
 2,4,6-Tribromophenol  
 Concen: 125.614 ng  
 RT: 16.19 min Scan# 2230  
 Delta R.T. -0.00 min  
 Lab File: BG038812.D  
 Acq: 22 Dec 2018 11:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-59(0-23)-COMP

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.6  | 76.9  | 115.3 |
| 141     | 31.4  | 28.8  | 43.2  |

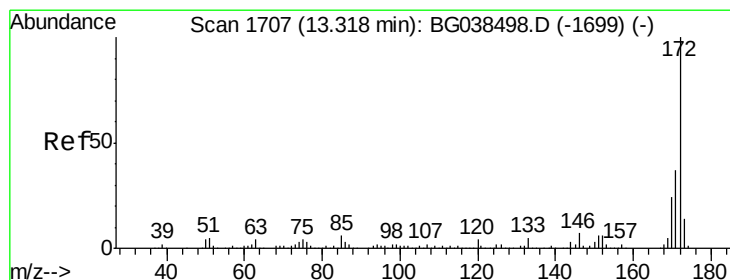
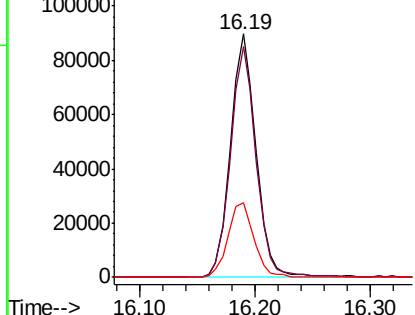
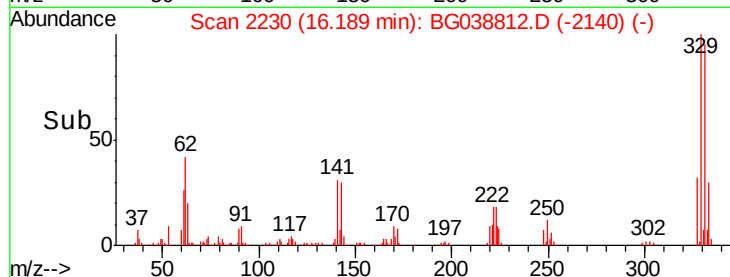


Abundance

Ion 329.80 (329.50 to 330.50): E

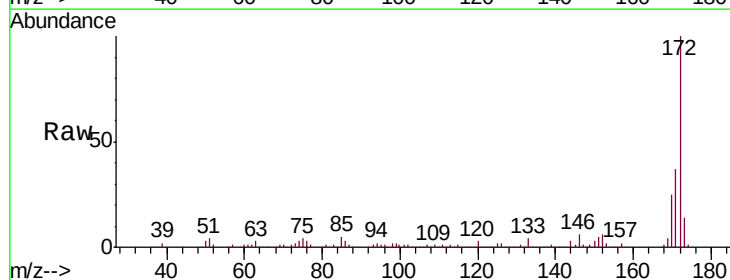
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 74.215 ng  
 RT: 13.32 min Scan# 1741  
 Delta R.T. -0.00 min  
 Lab File: BG038812.D  
 Acq: 22 Dec 2018 11:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.3  | 29.8  | 44.6  |
| 170     | 24.6  | 19.5  | 29.3  |

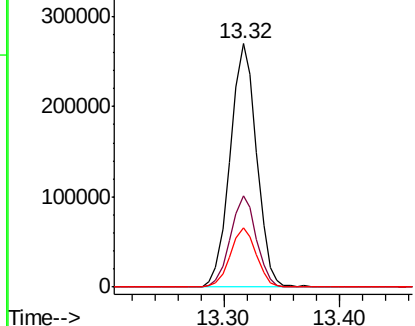
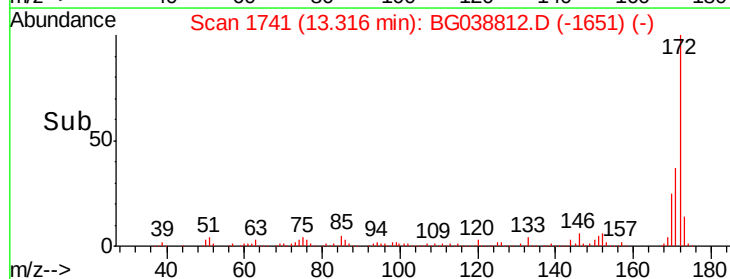


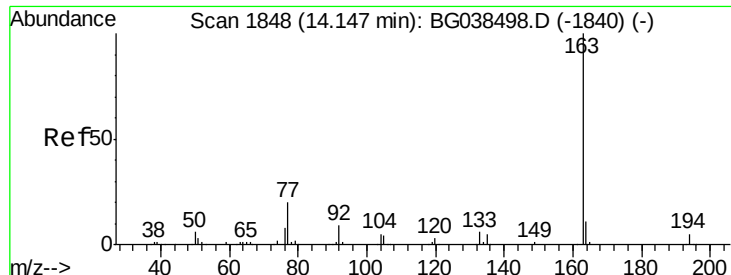
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#50

Dimethylphthalate

Concen: 6.706 ng

RT: 14.14 min Scan# 1881

Delta R.T. -0.01 min

Lab File: BG038812.D

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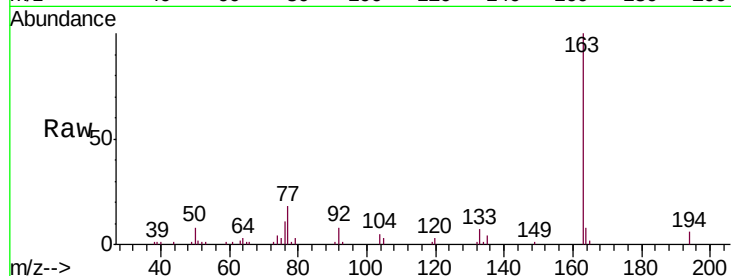
Tgt Ion:163 Resp: 43393

Ion Ratio Lower Upper

163 100

194 5.6 3.7 5.5#

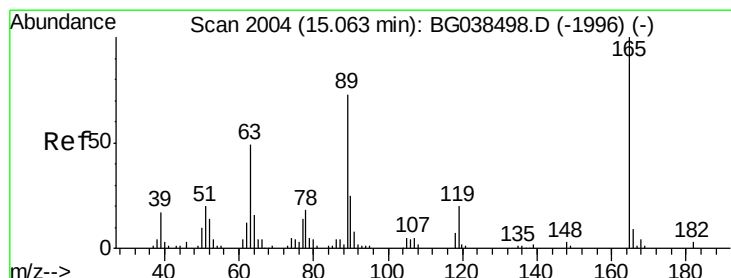
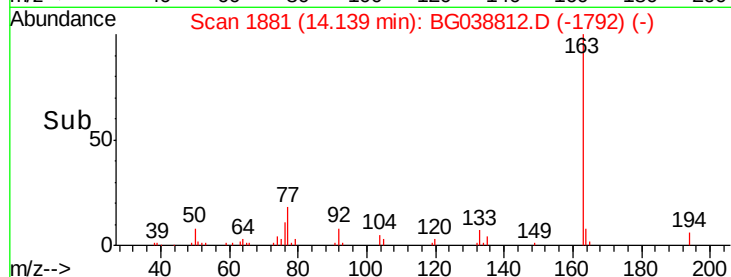
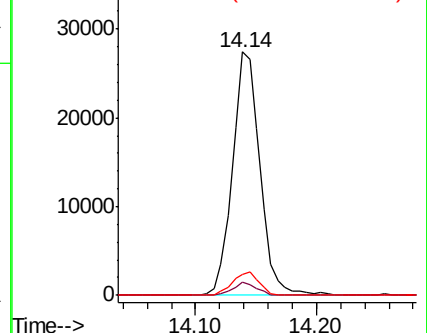
164 8.4 8.6 12.8#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#57

2,4-Dinitrotoluene

Concen: 5.141 ng

RT: 14.69 min Scan# 1975

Delta R.T. -0.37 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

Tgt Ion:165 Resp: 10618

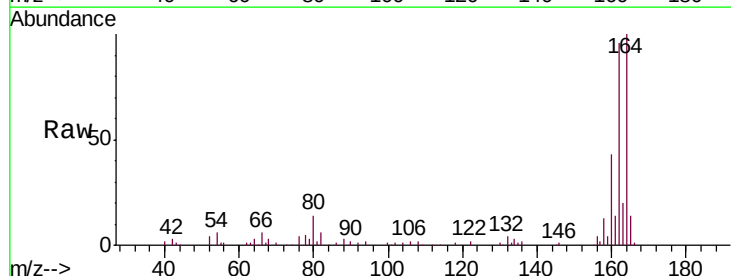
Ion Ratio Lower Upper

165 100

63 4.0 39.0 58.4#

89 0.0 58.0 87.0#

182 0.0 2.3 3.5#

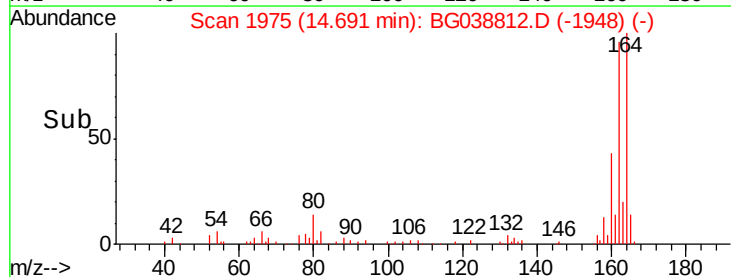
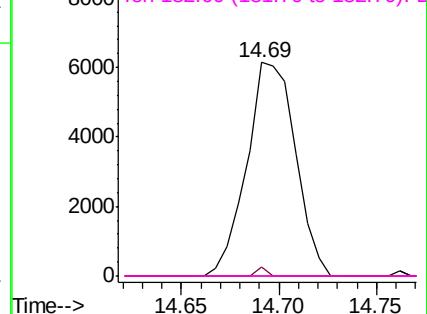


Abundance Ion 165.00 (164.70 to 165.70): E

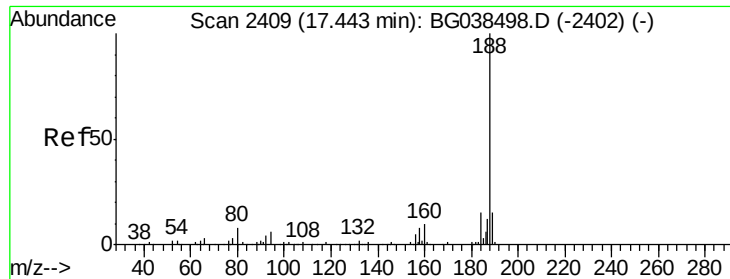
Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.45 min Scan# 2444

Delta R.T. 0.00 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

Instrument :

BNA\_G

ClientSampleId :

SB-59(0-23)-COMP

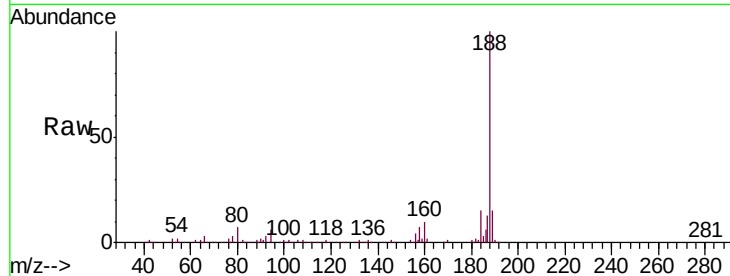
Tgt Ion:188 Resp: 174150

Ion Ratio Lower Upper

188 100

94 6.1 5.1 7.7

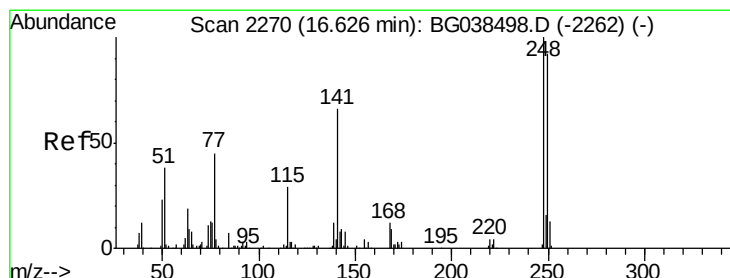
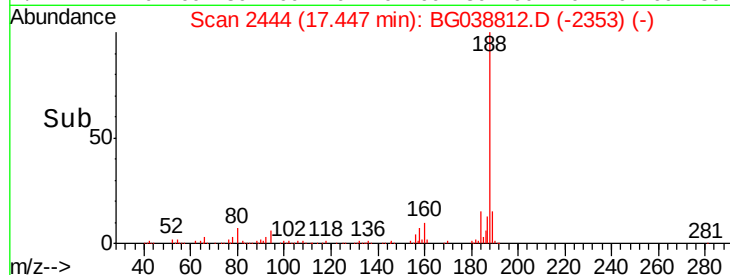
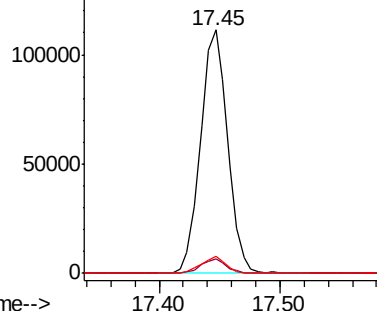
80 6.9 6.1 9.1



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#67

4-Bromophenyl-phenylether

Concen: 4.067 ng

RT: 16.19 min Scan# 2230

Delta R.T. -0.44 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

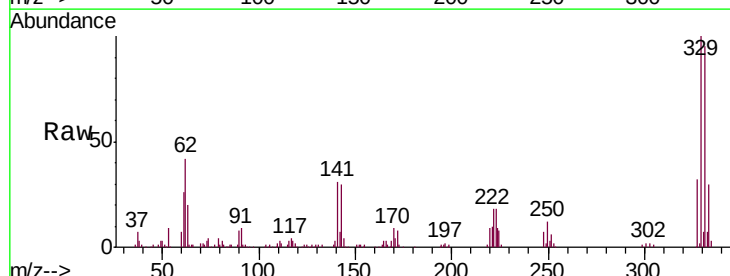
Tgt Ion:248 Resp: 8650

Ion Ratio Lower Upper

248 100

250 168.4 73.4 110.2#

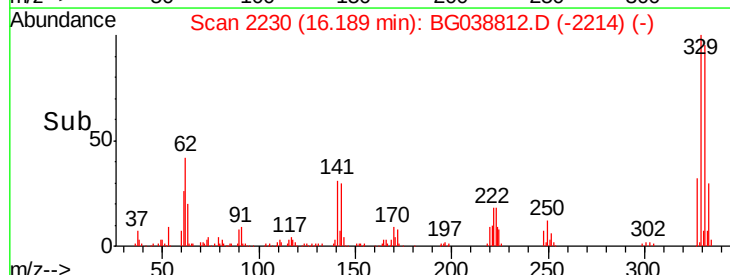
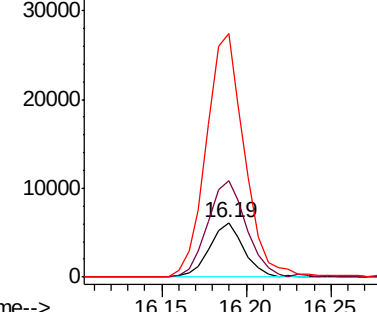
141 342.6 52.9 79.3#

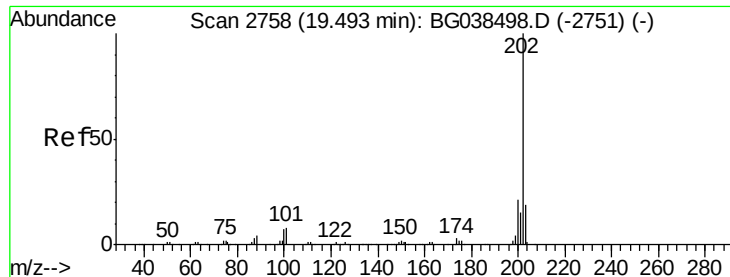


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#75

Fluoranthene

Concen: 5.334 ng

RT: 19.50 min Scan# 2793

Delta R.T. 0.00 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

Instrument :

BNA\_G

ClientSampleId :

SB-59(0-23)-COMP

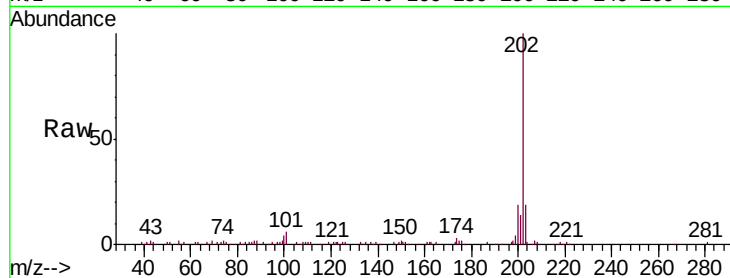
Tgt Ion:202 Resp: 59603

Ion Ratio Lower Upper

202 100

101 5.9 0.0 28.1

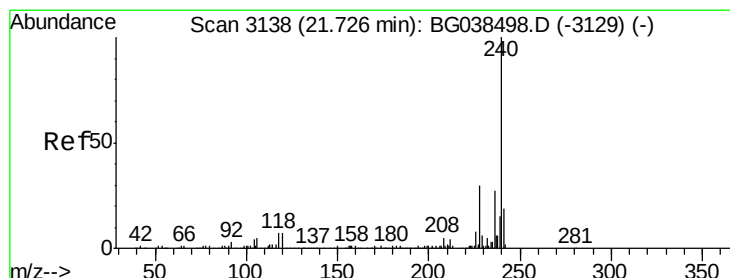
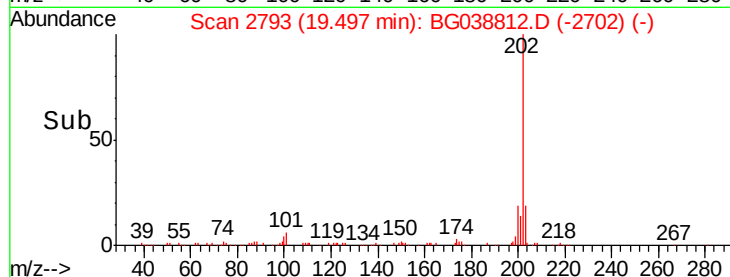
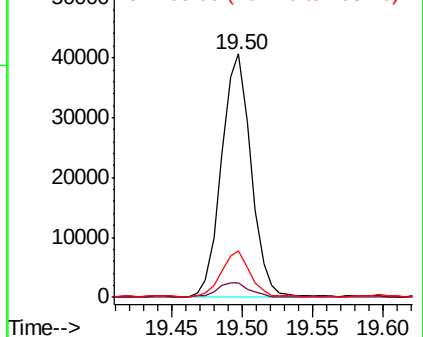
203 19.4 0.0 39.0



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



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.73 min Scan# 3173

Delta R.T. 0.00 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

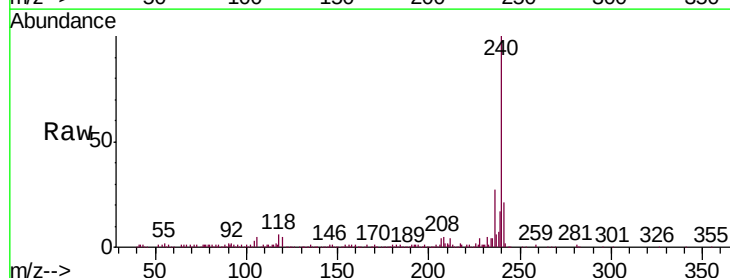
Tgt Ion:240 Resp: 162615

Ion Ratio Lower Upper

240 100

120 5.4 5.3 7.9

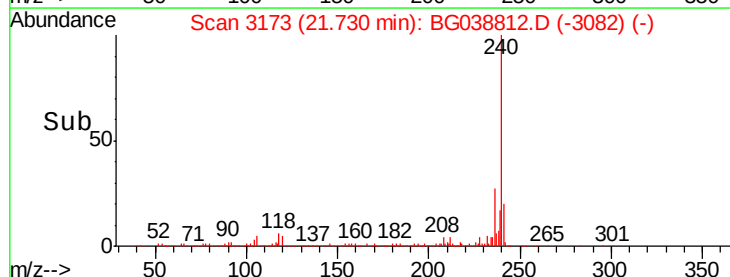
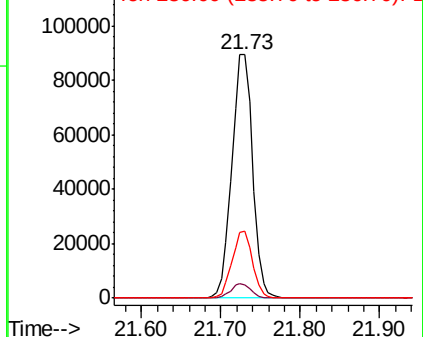
236 27.3 21.4 32.2

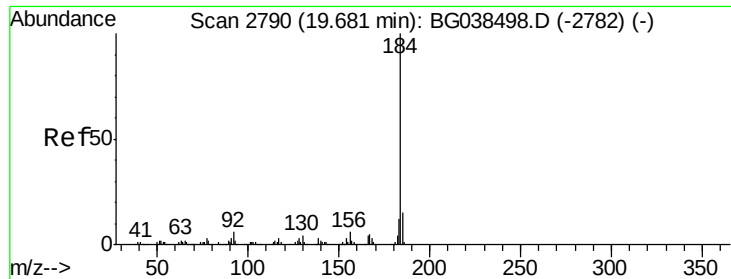


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 2.162 ng

RT: 20.04 min Scan# 2886

Delta R.T. 0.36 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

Instrument :

BNA\_G

ClientSampleId :

SB-59(0-23)-COMP

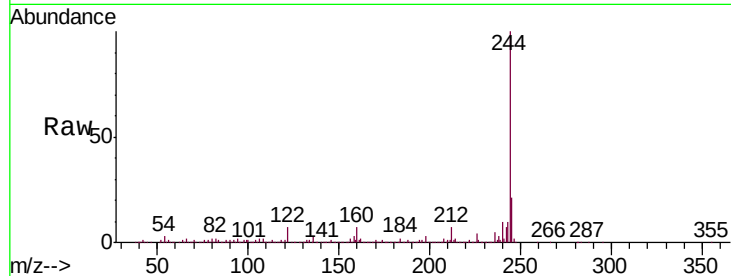
Tgt Ion:184 Resp: 10396

Ion Ratio Lower Upper

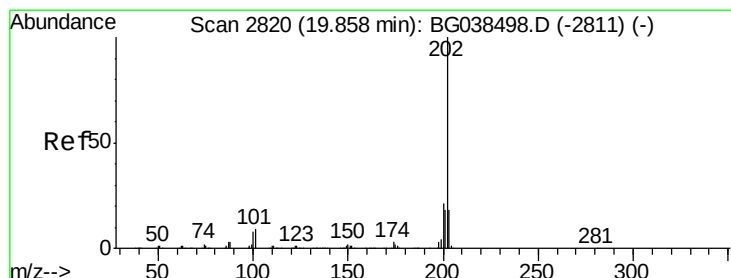
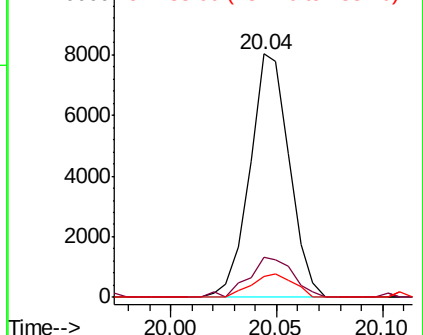
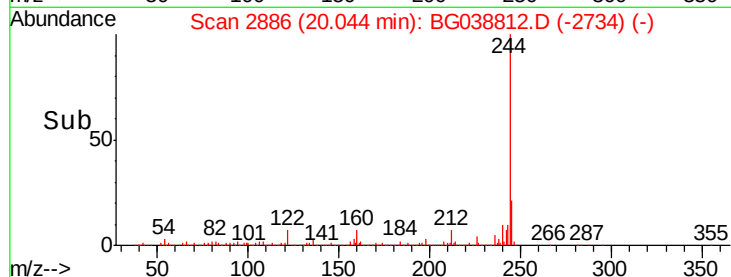
184 100

185 16.2 12.2 18.2

183 8.6 9.6 14.4#



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



#78

Pyrene

Concen: 5.271 ng

RT: 19.86 min Scan# 2855

Delta R.T. 0.00 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

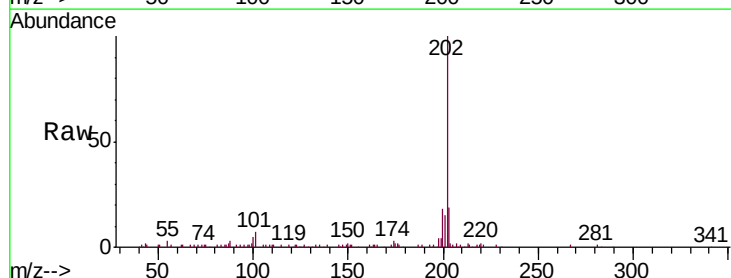
Tgt Ion:202 Resp: 56624

Ion Ratio Lower Upper

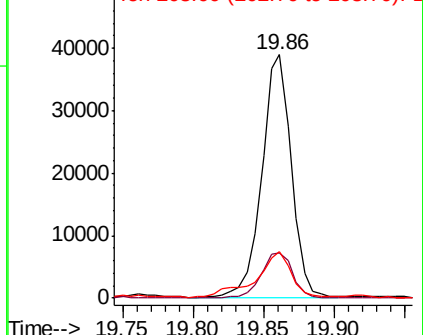
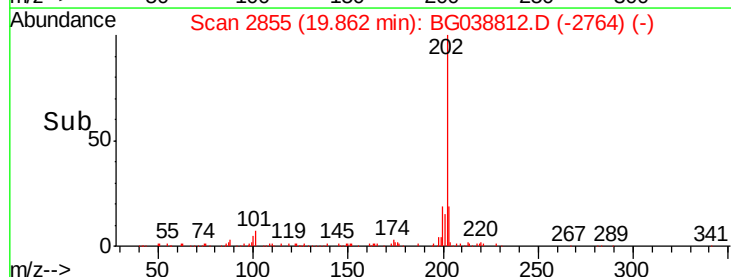
202 100

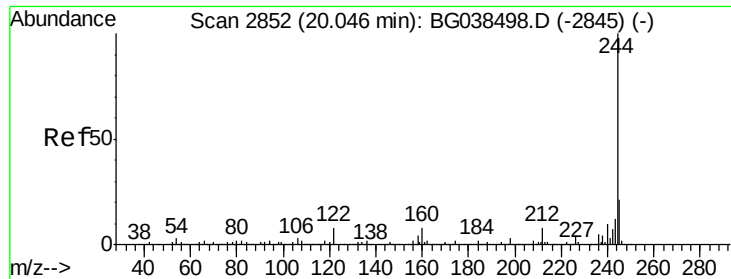
200 18.4 16.6 25.0

203 19.0 14.6 21.8



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





#79

Terphenyl-d14

Concen: 82.102 ng

RT: 20.05 min Scan# 2887

Delta R.T. 0.00 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

Instrument :

BNA\_G

ClientSampleId :

SB-59(0-23)-COMP

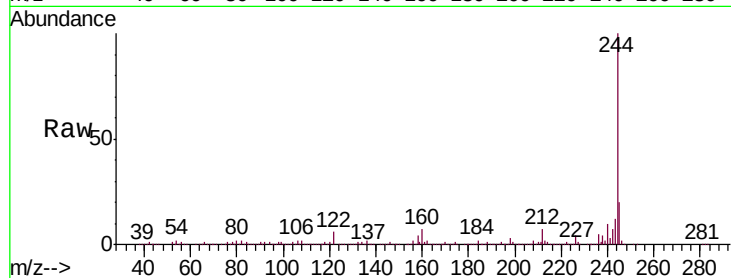
Tgt Ion:244 Resp: 613461

Ion Ratio Lower Upper

244 100

212 7.4 6.2 9.2

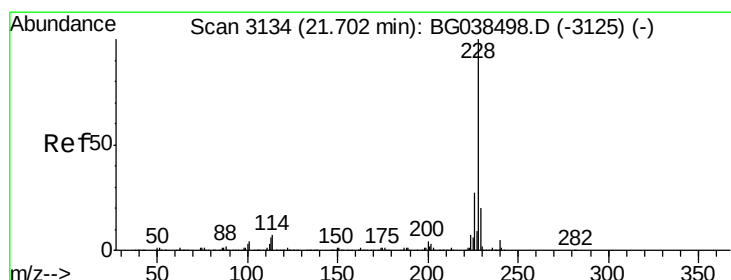
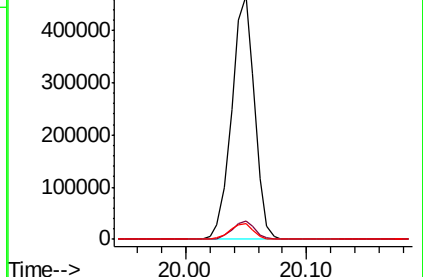
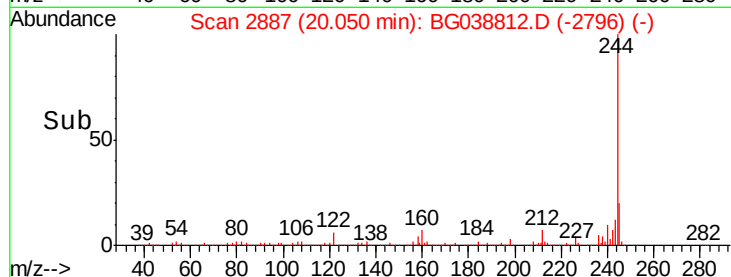
122 6.5 6.3 9.5



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



#81

Benzo(a)anthracene

Concen: 3.146 ng

RT: 21.71 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

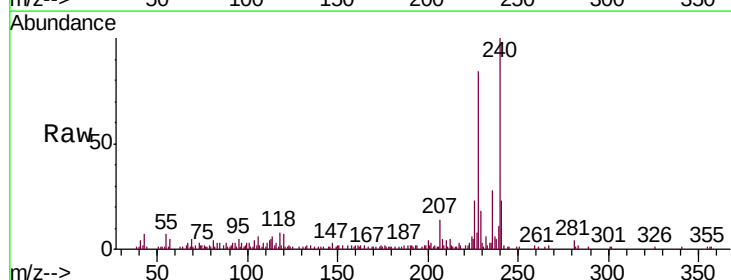
Tgt Ion:228 Resp: 31169

Ion Ratio Lower Upper

228 100

226 27.5 21.8 32.8

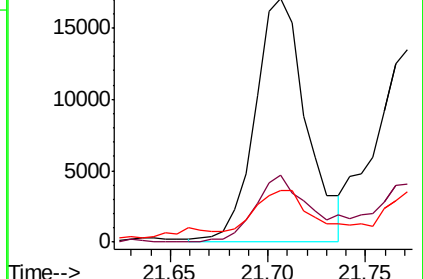
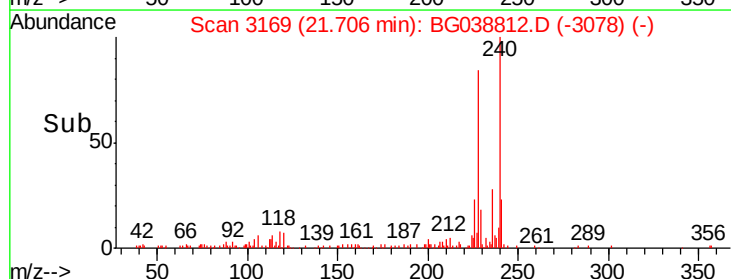
229 21.1 15.8 23.6

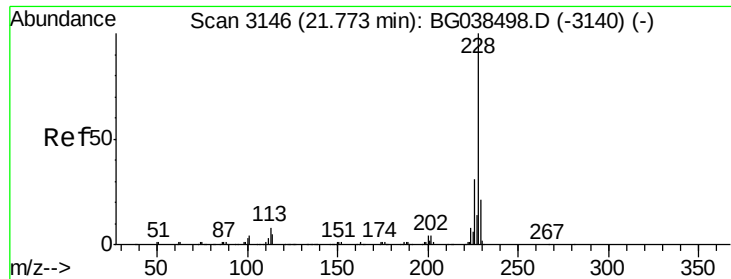


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 3.266 ng

RT: 21.71 min Scan# 3169

Delta R.T. -0.07 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

Instrument :

BNA\_G

ClientSampleId :

SB-59(0-23)-COMP

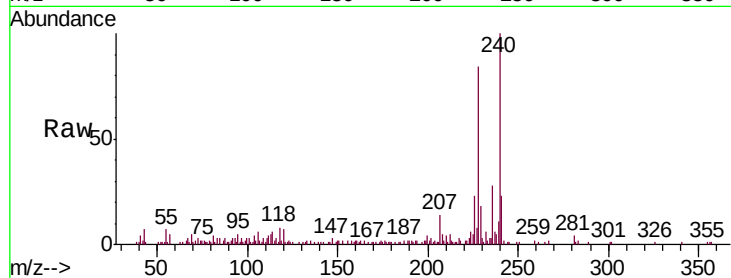
Tgt Ion:228 Resp: 31169

Ion Ratio Lower Upper

228 100

226 27.5 25.0 37.4

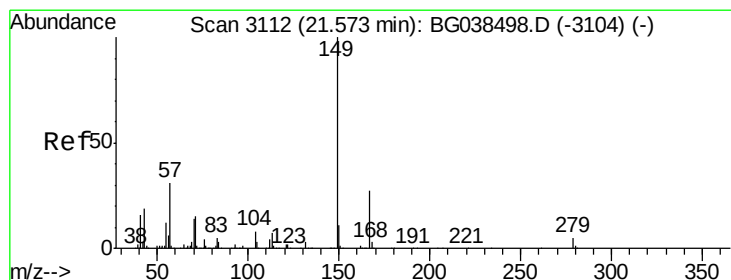
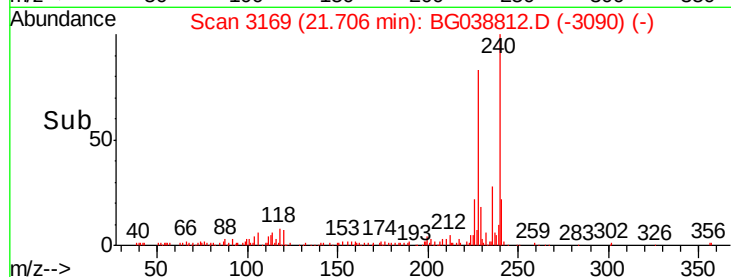
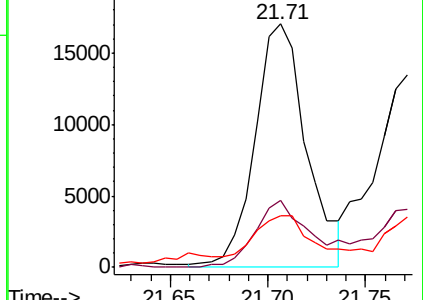
229 21.1 16.5 24.7



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 11.590 ng

RT: 21.57 min Scan# 3146

Delta R.T. -0.00 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

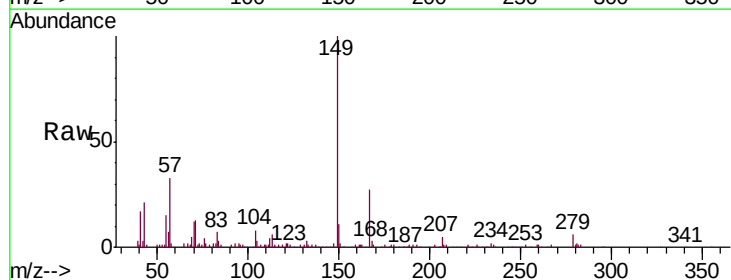
Tgt Ion:149 Resp: 68990

Ion Ratio Lower Upper

149 100

167 27.5 21.9 32.9

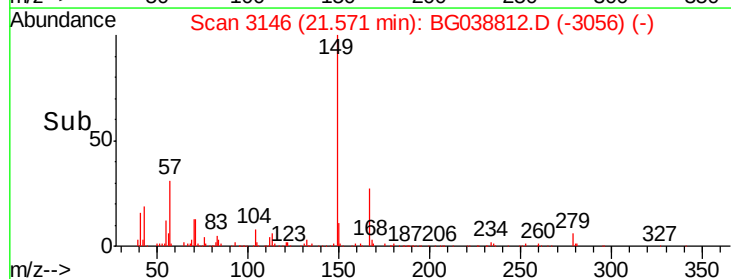
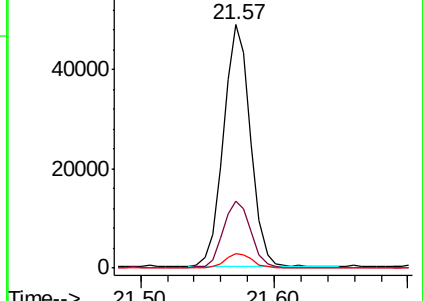
279 6.2 4.2 6.2

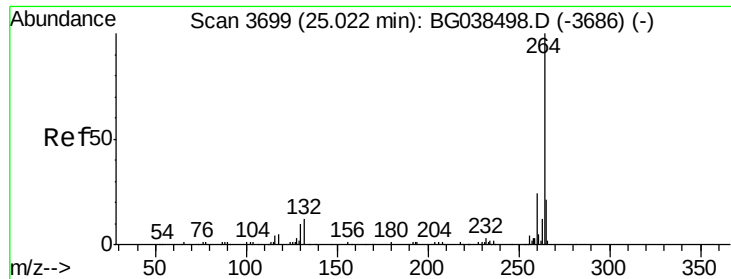


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#87

Perylene-d12

Concen: 20.000 ng

RT: 25.03 min Scan# 3735

Delta R.T. 0.01 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

Instrument :

BNA\_G

ClientSampleId :

SB-59(0-23)-COMP

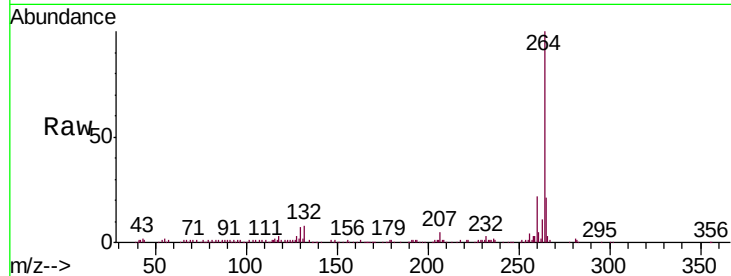
Tgt Ion:264 Resp: 180109

Ion Ratio Lower Upper

264 100

260 22.3 18.9 28.3

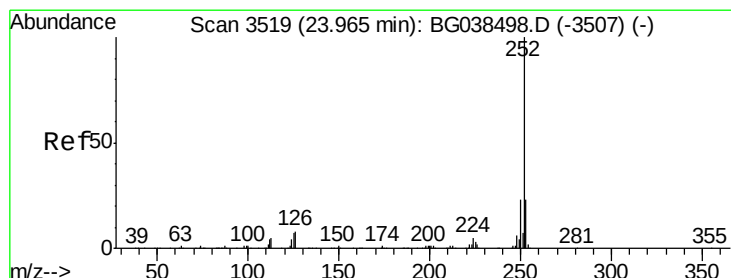
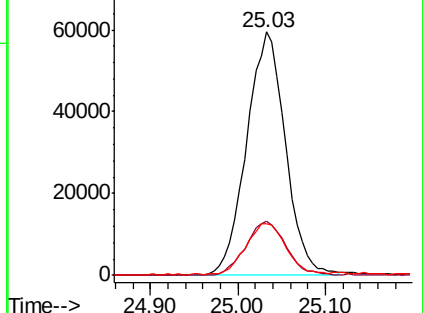
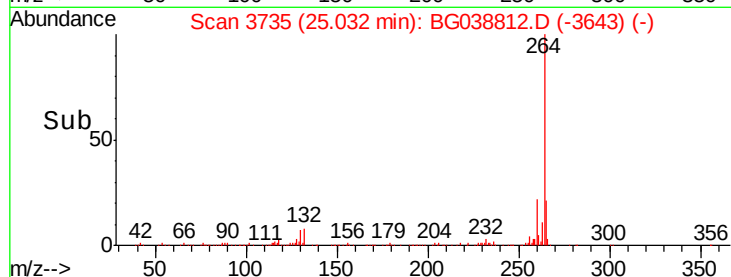
265 21.0 17.0 25.4



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



#88

Benzo(b)fluoranthene

Concen: 4.076 ng

RT: 23.98 min Scan# 3556

Delta R.T. 0.02 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

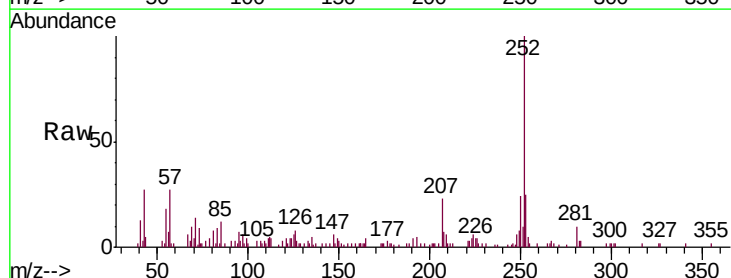
Tgt Ion:252 Resp: 40303

Ion Ratio Lower Upper

252 100

253 24.9 18.1 27.1

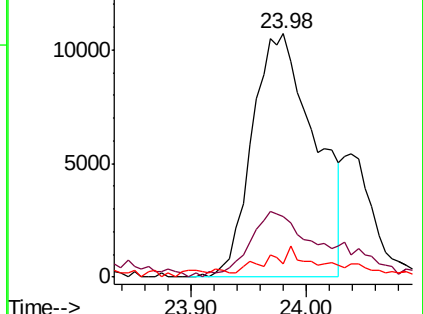
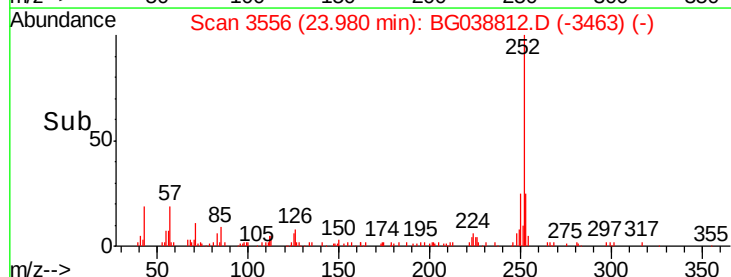
125 5.6 5.5 8.3

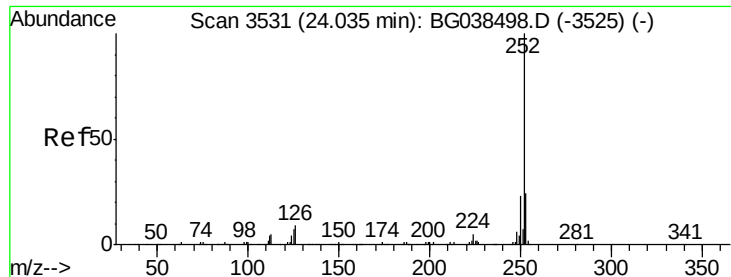


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(k)fluoranthene

Concen: 4.093 ng

RT: 23.98 min Scan# 3556

Delta R.T. -0.05 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

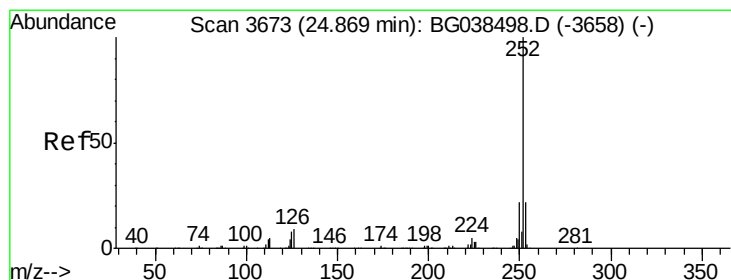
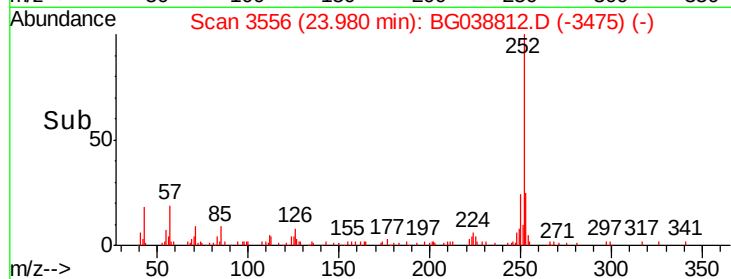
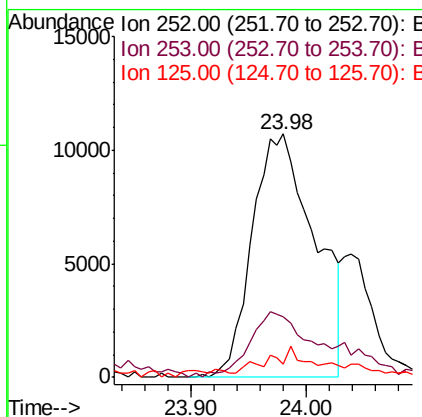
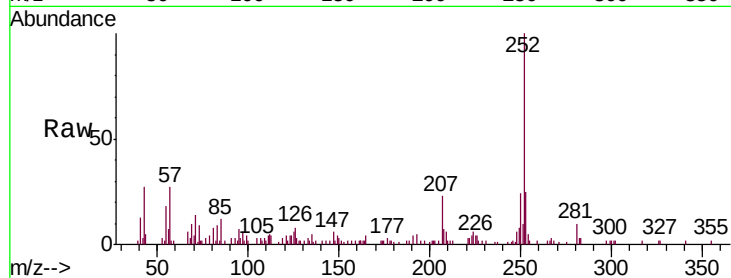
Instrument :

BNA\_G

ClientSampleId :

SB-59(0-23)-COMP

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 40303 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 24.9  | 18.9  | 28.3  |
| 125      | 5.6   | 5.4   | 8.2   |



#90

Benzo(a)pyrene

Concen: 3.120 ng

RT: 24.87 min Scan# 3708

Delta R.T. 0.00 min

Lab File: BG038812.D

Acq: 22 Dec 2018 11:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 29767 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 24.2  | 17.4  | 26.0  |
| 125      | 8.1   | 6.4   | 9.6   |

