

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG072518\  
 Data File : BG035883.D  
 Acq On : 25 Jul 2018 21:05  
 Operator : JU/SJ  
 Sample : J4140-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EPE-F-8(95-97)

Quant Time: Jul 26 01:40:45 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 25 11:04:14 2018  
 Response via : Initial Calibration

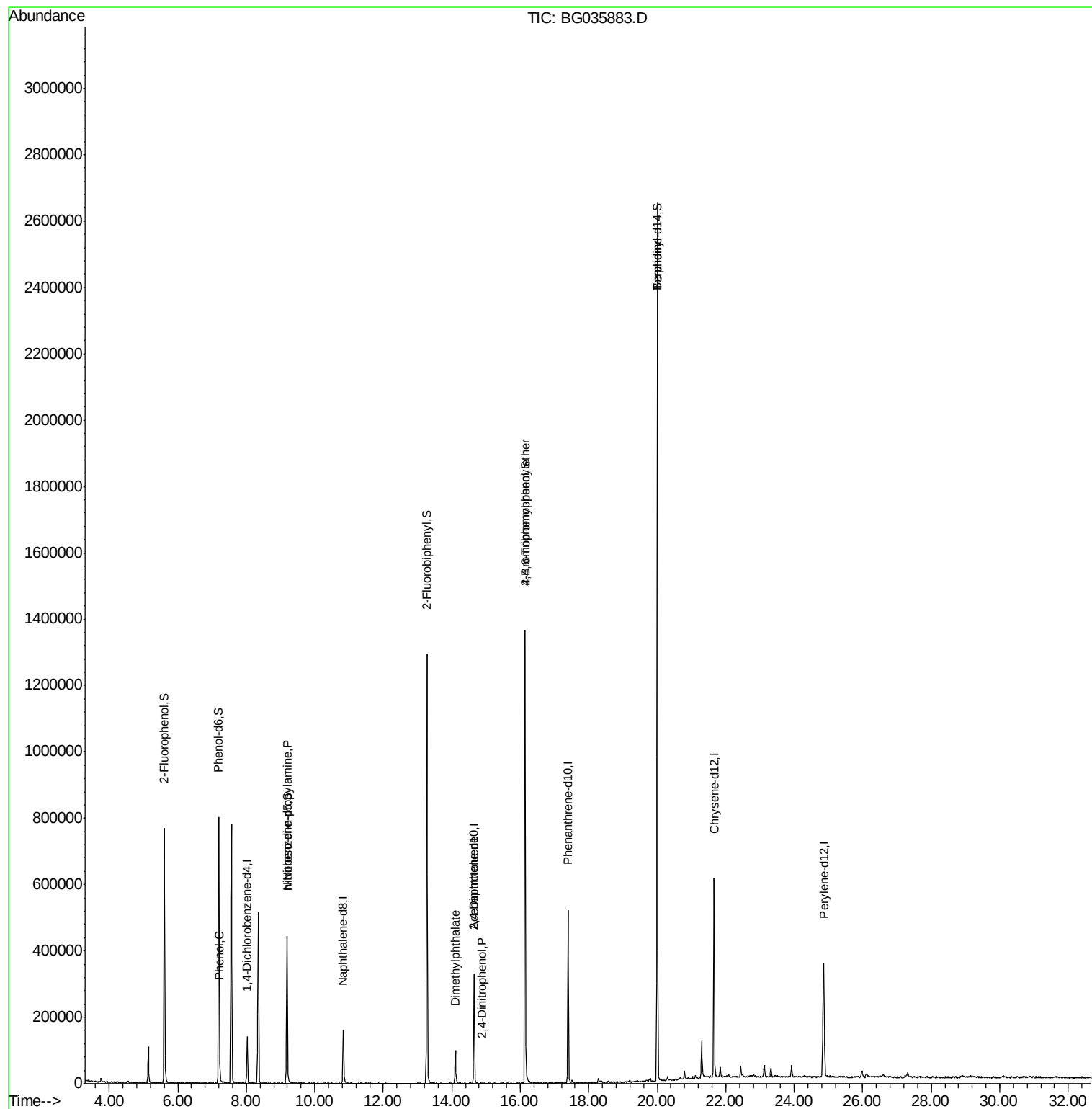
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 39480    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.83 | 136  | 154105   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.65 | 164  | 124342   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.39 | 188  | 361870   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.66 | 240  | 381225   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.86 | 264  | 365831   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 337968   | 142.12 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.19  | 99   | 513238   | 144.66 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.19  | 82   | 318432   | 86.32  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.14 | 330  | 268583   | 163.88 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.27 | 172  | 707426   | 76.22  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.00 | 244  | 1293890  | 74.81  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 7.22  | 94   | 19776    | 5.517  | ng    | 89       |
| 19) n-Nitroso-di-n-propylamine | 9.18  | 70   | 42848    | 14.342 | ng    | # 69     |
| 49) Dimethylphthalate          | 14.10 | 163  | 80781    | 7.415  | ng    | # 98     |
| 53) 2,4-Dinitrophenol          | 14.87 | 184  | 54       | 6.626  | ng    | # 1      |
| 56) 2,4-Dinitrotoluene         | 14.65 | 165  | 16663    | 5.236  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.14 | 248  | 20941    | 4.988  | ng    | # 1      |
| 76) Benizidine                 | 20.00 | 184  | 20784    | 2.074  | ng    | # 88     |

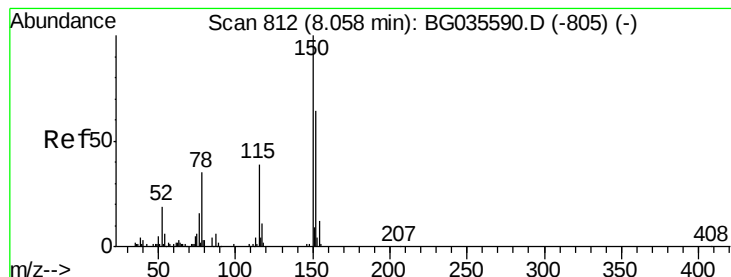
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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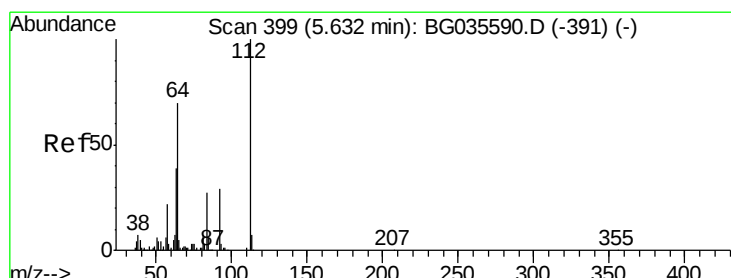
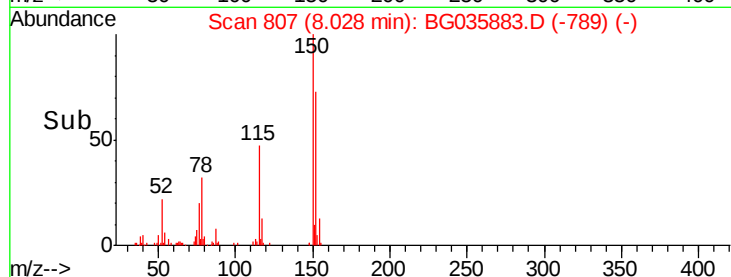
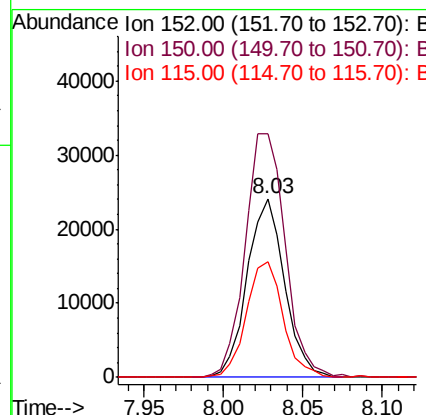
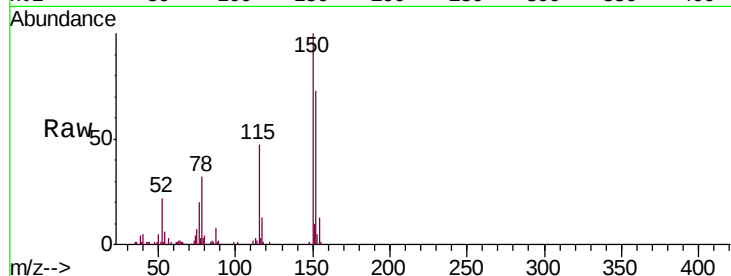


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.03 min Scan# 807  
Delta R.T. 0.00 min  
Lab File: BG035883.D  
Acq: 25 Jul 2018 21:05

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(95-97)

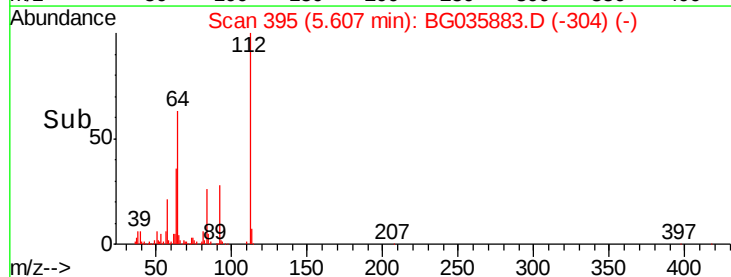
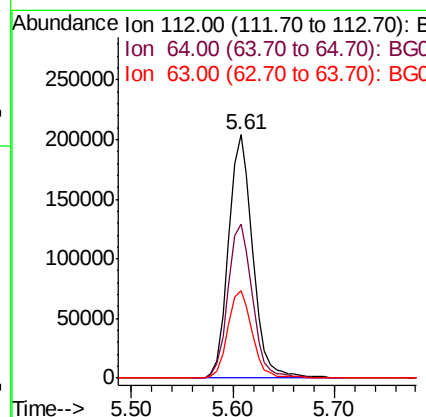
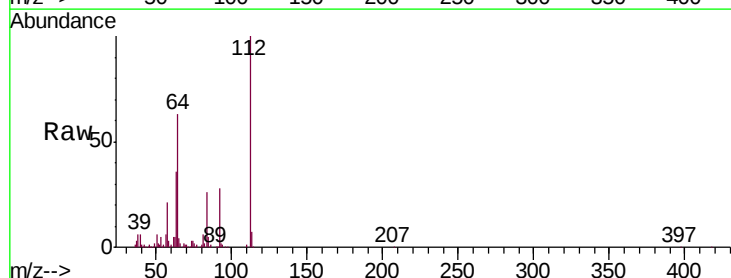
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 136.1 | 126.6 | 189.8 |
| 115     | 64.4  | 53.0  | 79.4  |

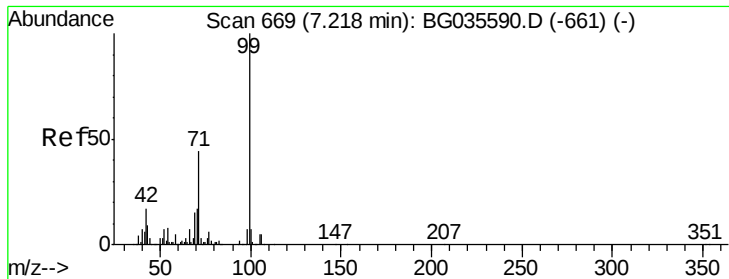


#5

2-Fluorophenol  
Concen: 142.124 ng  
RT: 5.61 min Scan# 395  
Delta R.T. 0.00 min  
Lab File: BG035883.D  
Acq: 25 Jul 2018 21:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.0  | 56.3  | 84.5  |
| 63      | 35.9  | 30.1  | 45.1  |





#7

Phenol-d6

Concen: 144.659 ng

RT: 7.19 min Scan# 665

Delta R.T. -0.00 min

Lab File: BG035883.D

Acq: 25 Jul 2018 21:05

Instrument :

BNA\_G

ClientSampleId :

EPE-F-8(95-97)

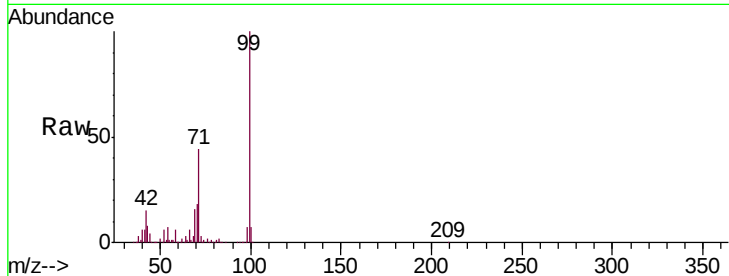
Tgt Ion: 99 Resp: 513238

Ion Ratio Lower Upper

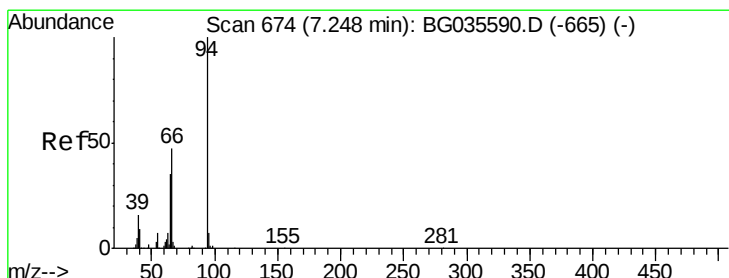
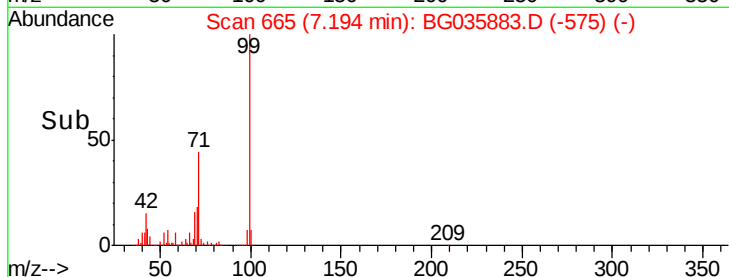
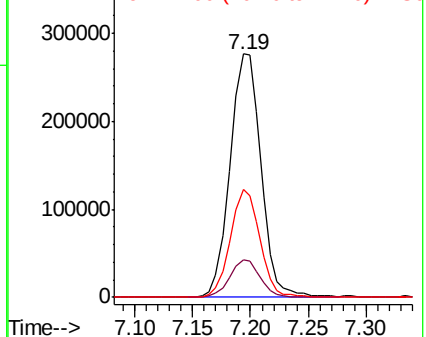
99 100

42 15.4 14.1 21.1

71 44.4 26.1 39.1#



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: 5.517 ng

RT: 7.22 min Scan# 670

Delta R.T. 0.00 min

Lab File: BG035883.D

Acq: 25 Jul 2018 21:05

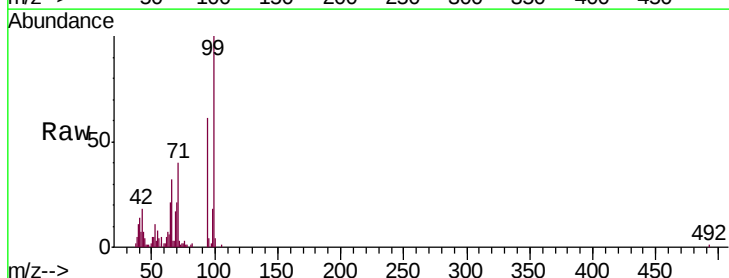
Tgt Ion: 94 Resp: 19776

Ion Ratio Lower Upper

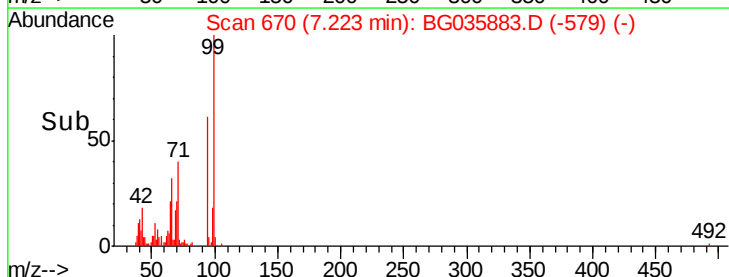
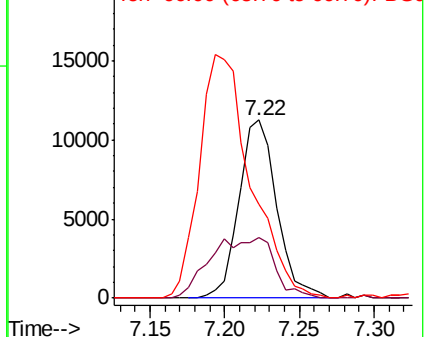
94 100

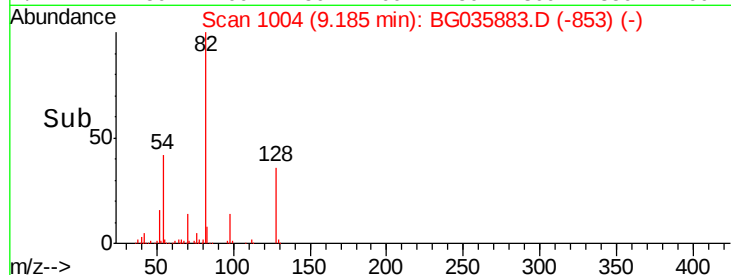
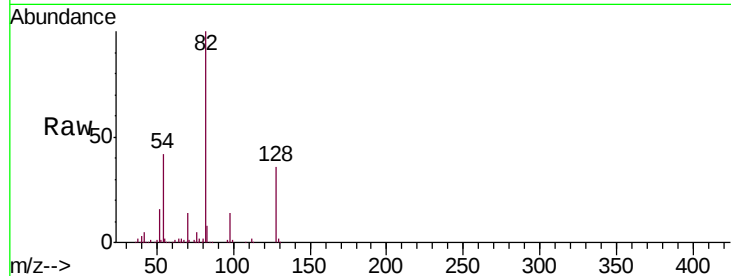
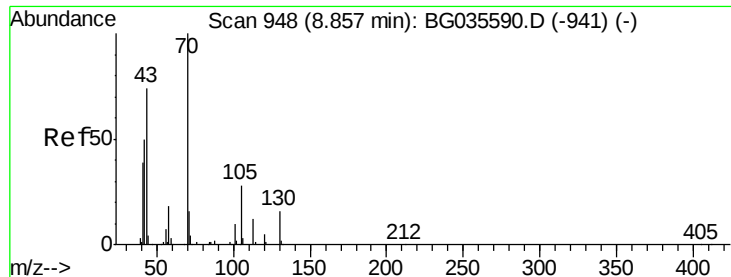
65 34.1 11.9 51.9

66 52.5 22.2 62.2



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

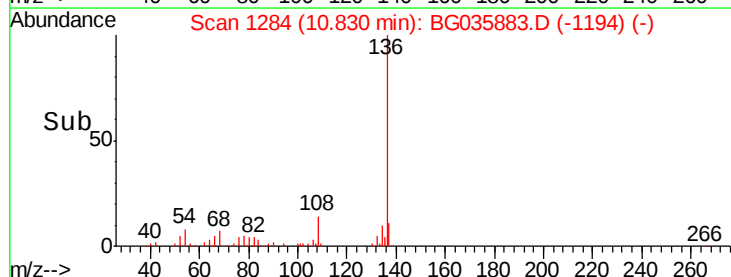
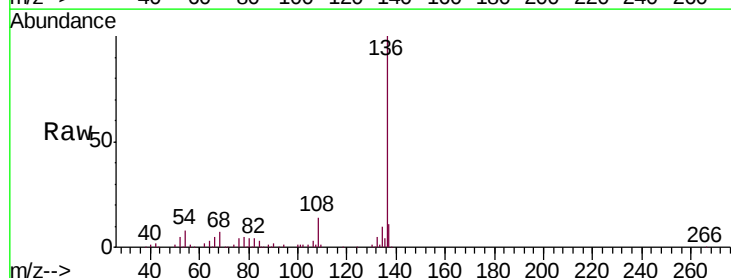
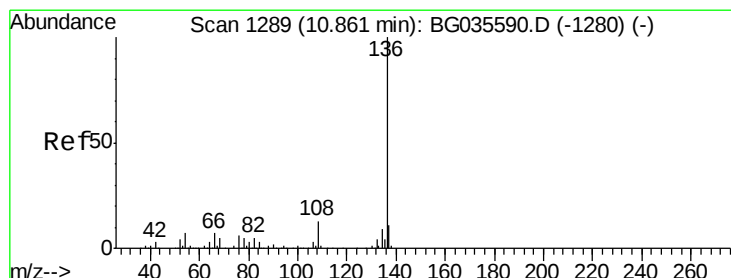
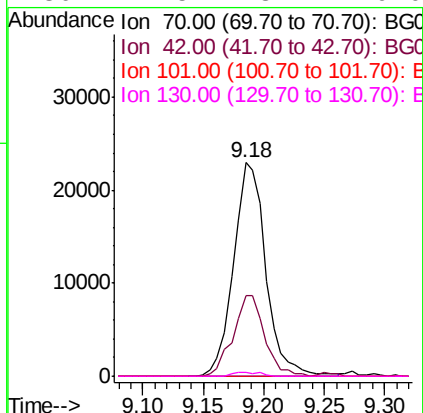




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.342 ng  
RT: 9.18 min Scan# 1004  
Delta R.T. 0.36 min  
Lab File: BG035883.D  
Acq: 25 Jul 2018 21:05

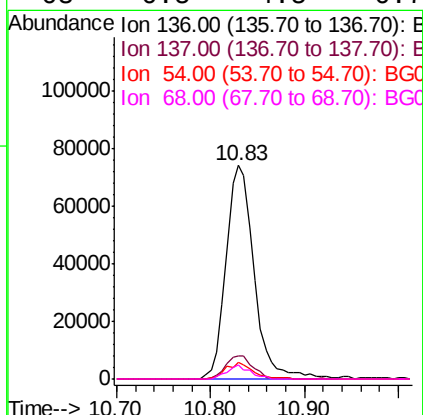
Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(95-97)

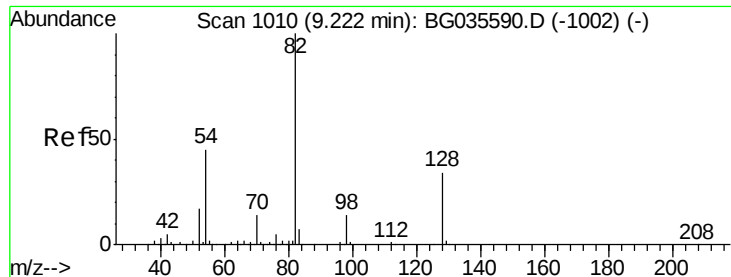
Tgt Ion: 70 Resp: 42848  
Ion Ratio Lower Upper  
70 100  
42 37.7 49.1 73.7#  
101 0.0 8.5 12.7#  
130 1.5 13.4 20.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1284  
Delta R.T. -0.00 min  
Lab File: BG035883.D  
Acq: 25 Jul 2018 21:05

Tgt Ion: 136 Resp: 154105  
Ion Ratio Lower Upper  
136 100  
137 10.7 9.2 13.8  
54 7.9 10.3 15.5#  
68 6.5 4.5 6.7

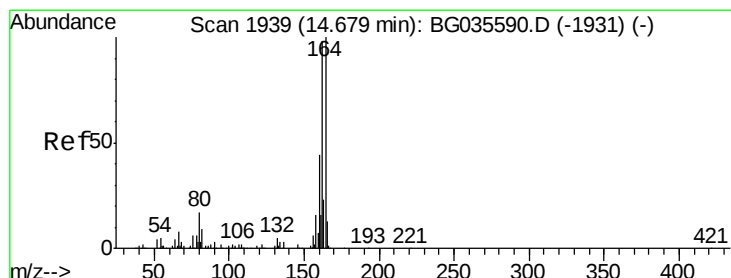
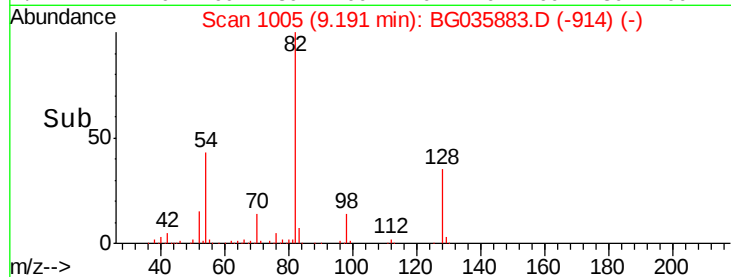
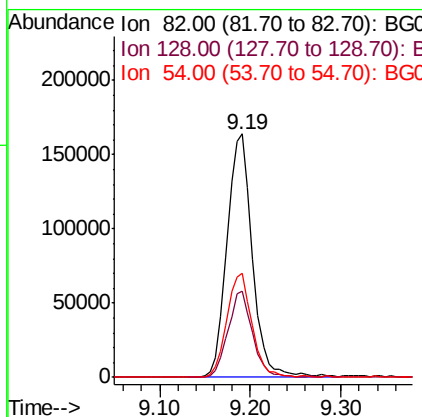
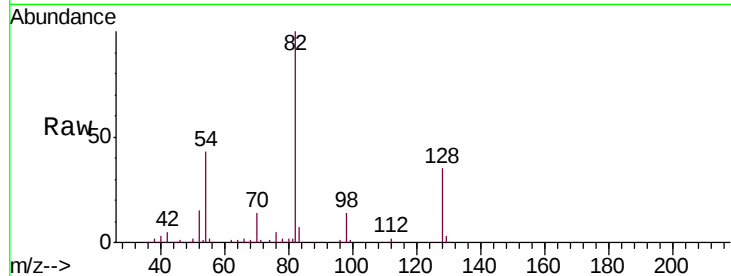




#23  
 Nitrobenzene-d5  
 Concen: 86.320 ng  
 RT: 9.19 min Scan# 1005  
 Delta R.T. 0.00 min  
 Lab File: BG035883.D  
 Acq: 25 Jul 2018 21:05

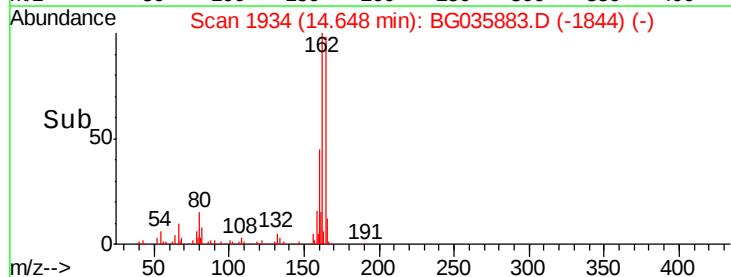
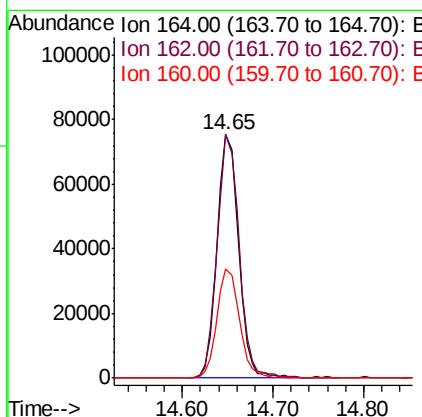
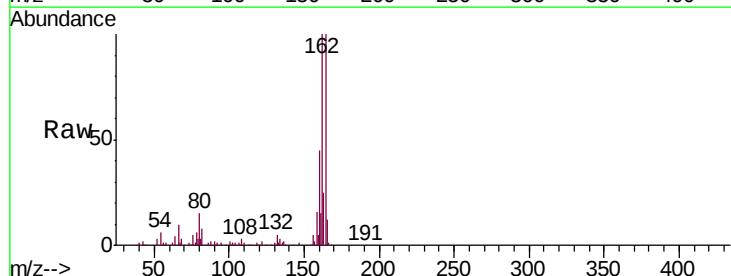
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EPE-F-8(95-97)

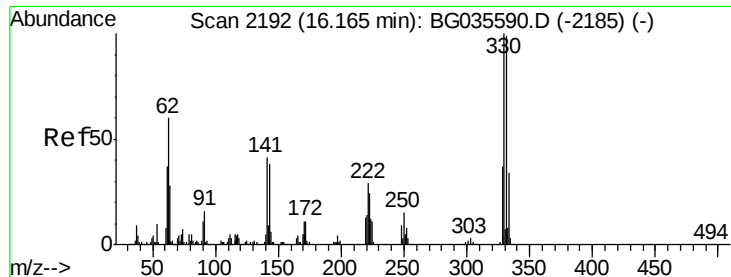
Tgt Ion: 82 Resp: 318432  
 Ion Ratio Lower Upper  
 82 100  
 128 35.2 29.7 44.5  
 54 42.8 43.1 64.7#



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.65 min Scan# 1934  
 Delta R.T. -0.00 min  
 Lab File: BG035883.D  
 Acq: 25 Jul 2018 21:05

Tgt Ion: 164 Resp: 124342  
 Ion Ratio Lower Upper  
 164 100  
 162 99.9 78.8 118.2  
 160 44.9 35.4 53.0

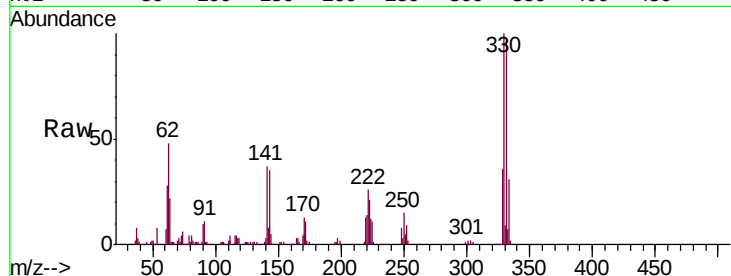




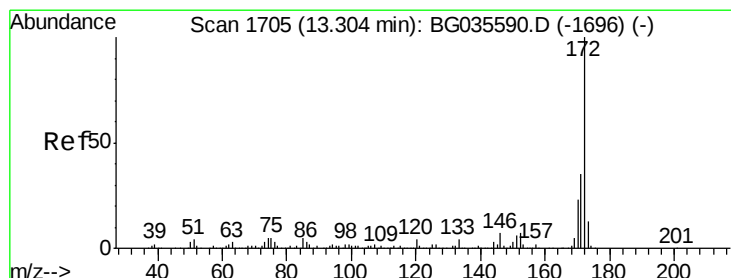
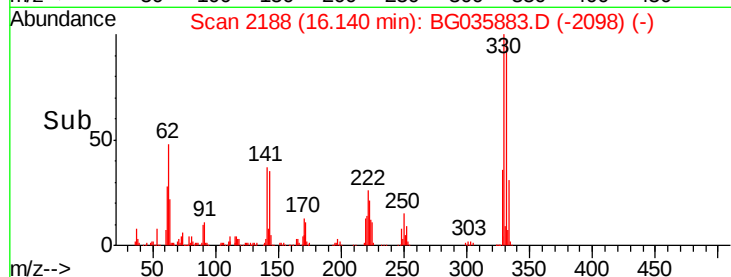
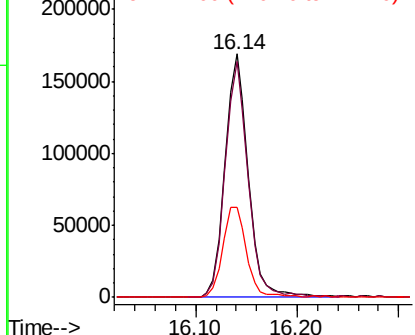
#41  
 2,4,6-Tribromophenol  
 Concen: 163.879 ng  
 RT: 16.14 min Scan# 2188  
 Delta R.T. -0.00 min  
 Lab File: BG035883.D  
 Acq: 25 Jul 2018 21:05

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EPE-F-8(95-97)

Tgt Ion:330 Resp: 268583  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 77.0 115.6  
 141 38.3 25.2 37.8#

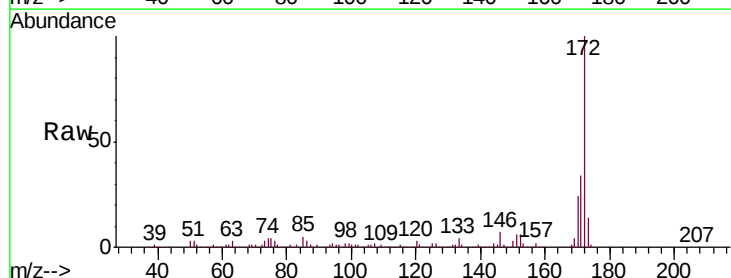


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

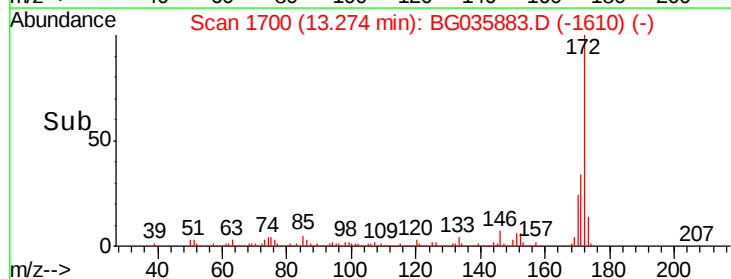
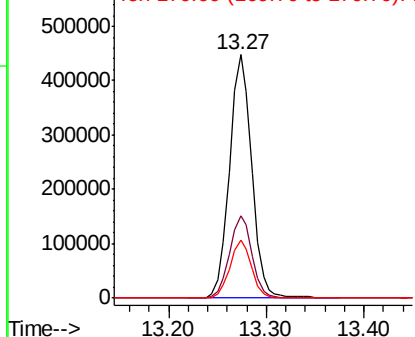


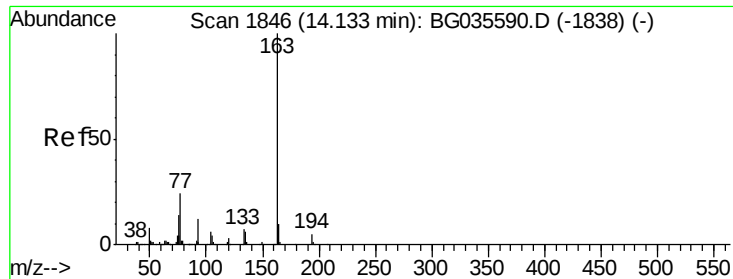
#44  
 2-Fluorobiphenyl  
 Concen: 76.223 ng  
 RT: 13.27 min Scan# 1700  
 Delta R.T. -0.00 min  
 Lab File: BG035883.D  
 Acq: 25 Jul 2018 21:05

Tgt Ion:172 Resp: 707426  
 Ion Ratio Lower Upper  
 172 100  
 171 33.8 30.0 45.0  
 170 24.1 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





#49

Dimethylphthalate

Concen: 7.415 ng

RT: 14.10 min Scan# 1841

Delta R.T. -0.00 min

Lab File: BG035883.D

Acq: 25 Jul 2018 21:05

Instrument :

BNA\_G

ClientSampleId :

EPE-F-8(95-97)

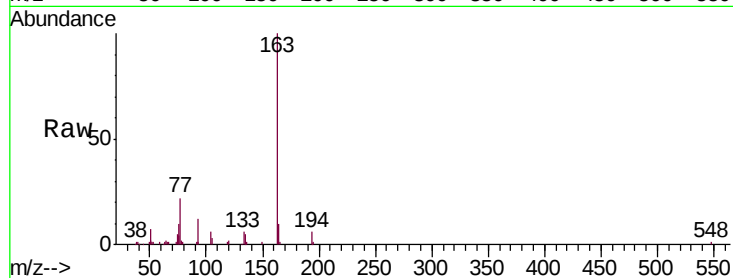
Tgt Ion:163 Resp: 80781

Ion Ratio Lower Upper

163 100

194 5.9 3.4 5.2#

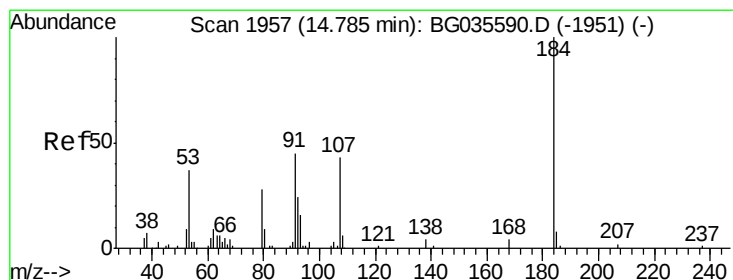
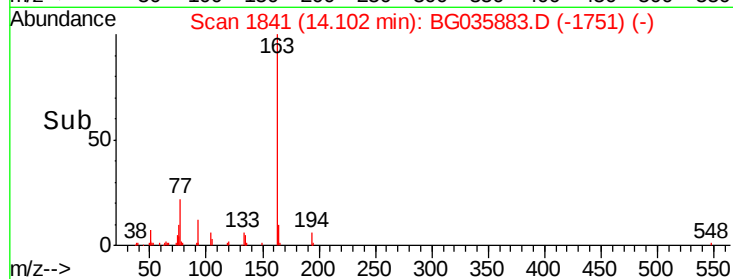
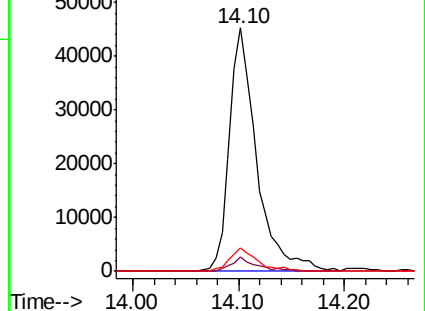
164 9.8 8.2 12.4



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



#53

2,4-Dinitrophenol

Concen: 6.626 ng

RT: 14.87 min Scan# 1972

Delta R.T. 0.11 min

Lab File: BG035883.D

Acq: 25 Jul 2018 21:05

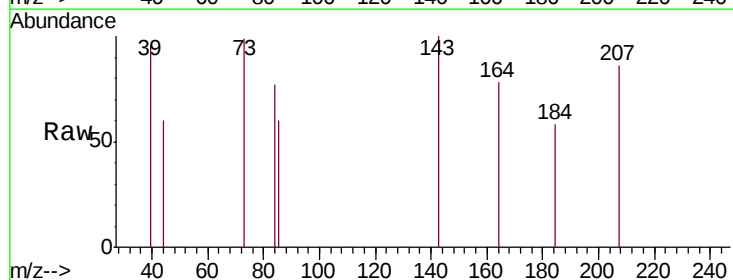
Tgt Ion:184 Resp: 54

Ion Ratio Lower Upper

184 100

63 0.0 59.8 89.8#

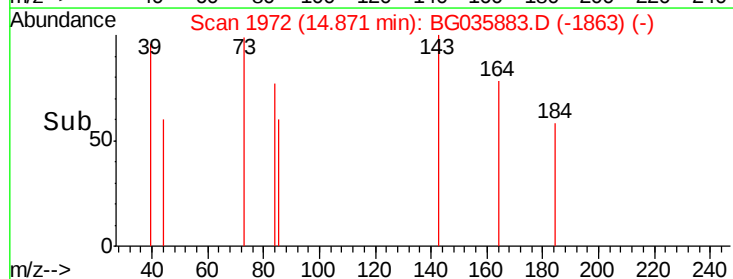
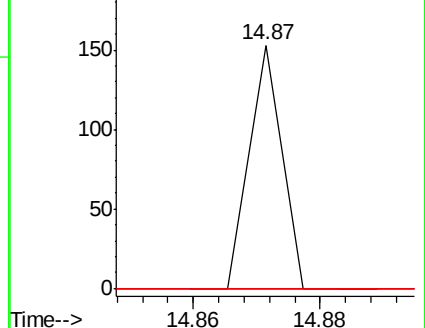
154 0.0 101.8 152.8#

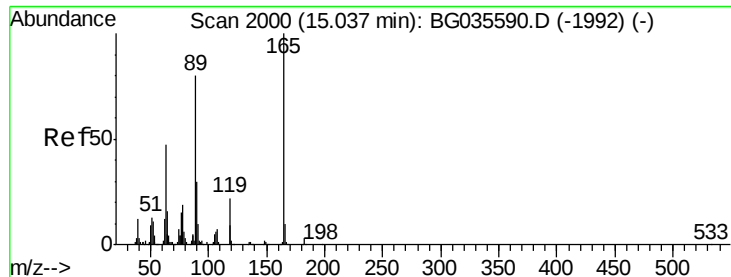


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BG

Ion 154.00 (153.70 to 154.70): E

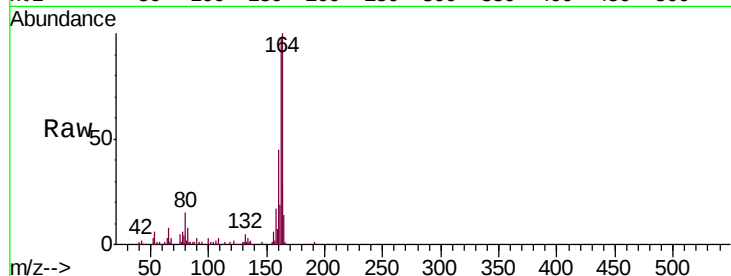




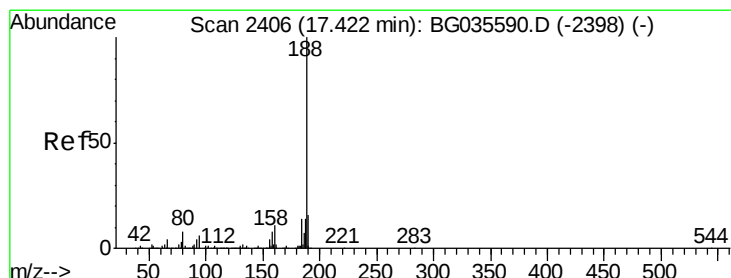
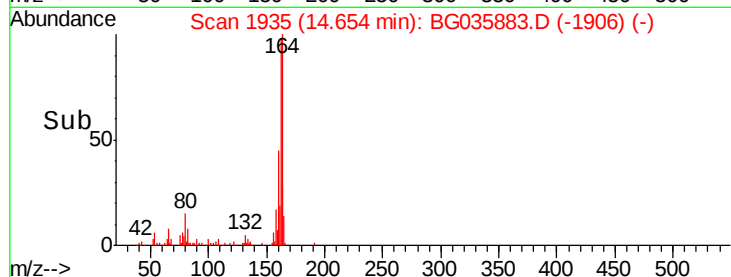
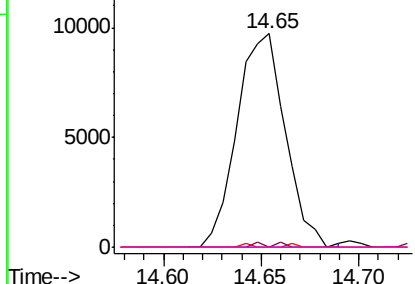
#56  
2,4-Dinitrotoluene  
Concen: 5.236 ng  
RT: 14.65 min Scan# 1935  
Delta R.T. -0.36 min  
Lab File: BG035883.D  
Acq: 25 Jul 2018 21:05

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(95-97)

Tgt Ion:165 Resp: 16663  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 0.0 66.9 100.3#  
182 0.0 2.6 3.8#

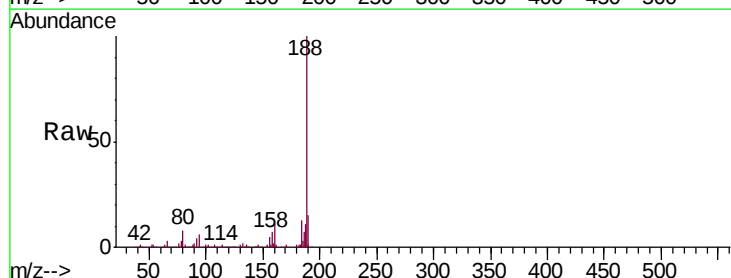


Abundance Ion 165.00 (164.70 to 165.70): E  
15000 Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

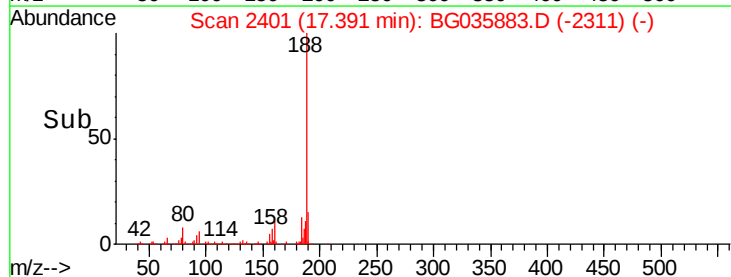
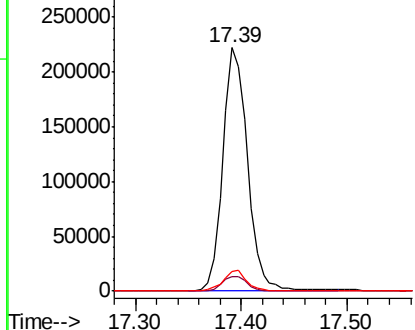


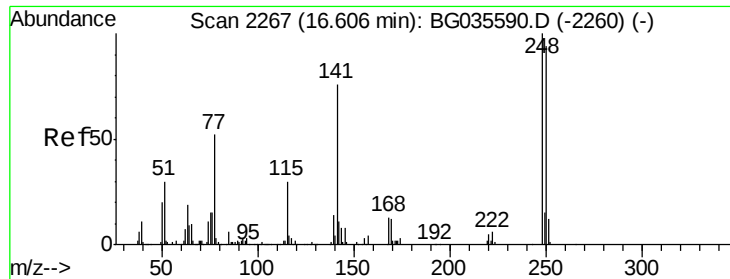
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.39 min Scan# 2401  
Delta R.T. -0.00 min  
Lab File: BG035883.D  
Acq: 25 Jul 2018 21:05

Tgt Ion:188 Resp: 361870  
Ion Ratio Lower Upper  
188 100  
94 5.8 6.9 10.3#  
80 7.9 7.7 11.5



Abundance Ion 188.00 (187.70 to 188.70): E  
300000 Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

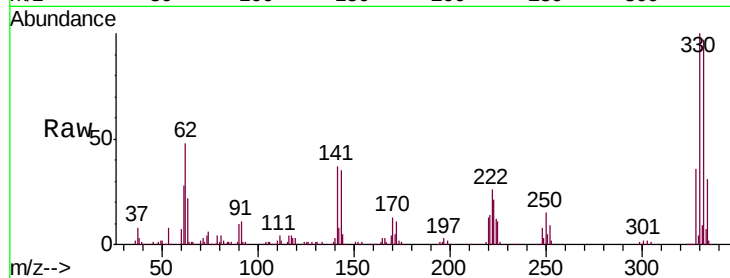




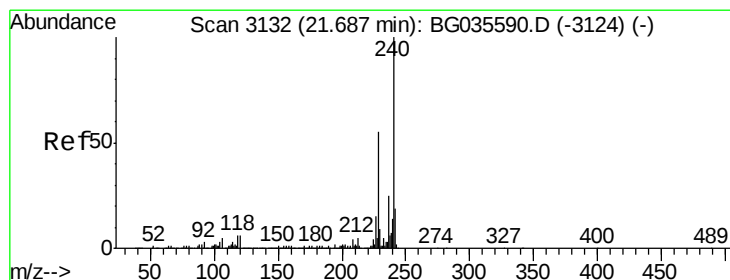
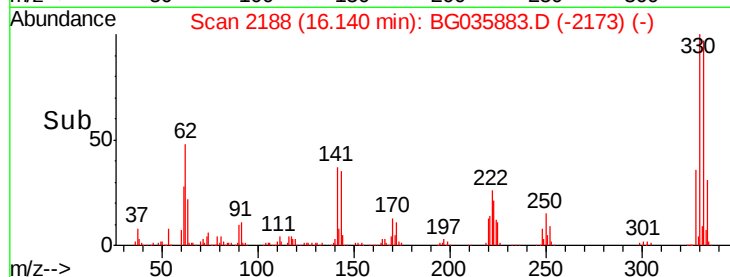
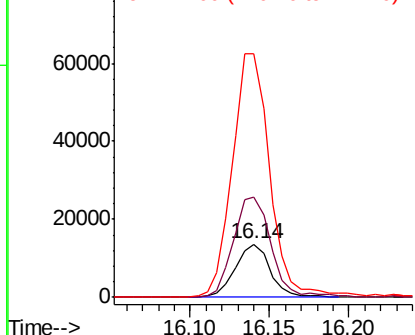
#66  
 4-Bromophenyl-phenylether  
 Concen: 4.988 ng  
 RT: 16.14 min Scan# 2188  
 Delta R.T. -0.44 min  
 Lab File: BG035883.D  
 Acq: 25 Jul 2018 21:05

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EPE-F-8(95-97)

Tgt Ion:248 Resp: 20941  
 Ion Ratio Lower Upper  
 248 100  
 250 187.7 77.1 115.7#  
 141 456.8 50.8 76.2#

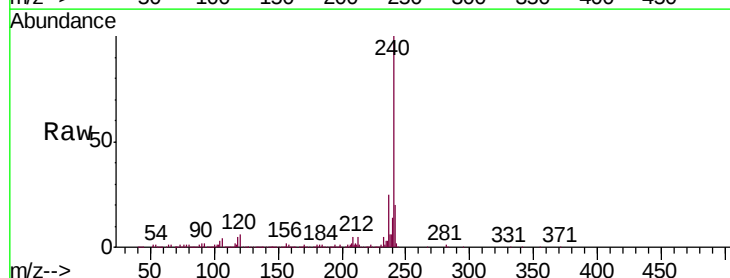


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

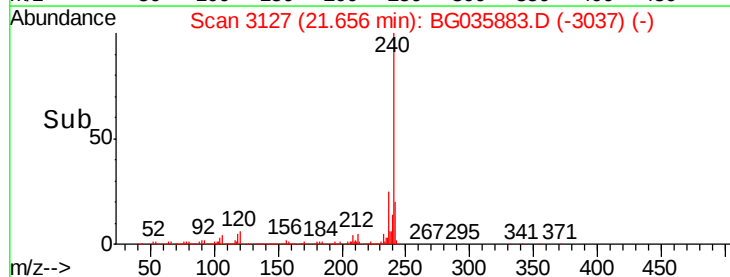
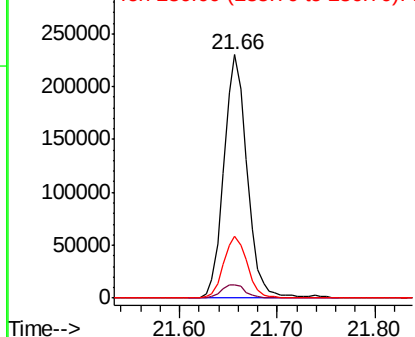


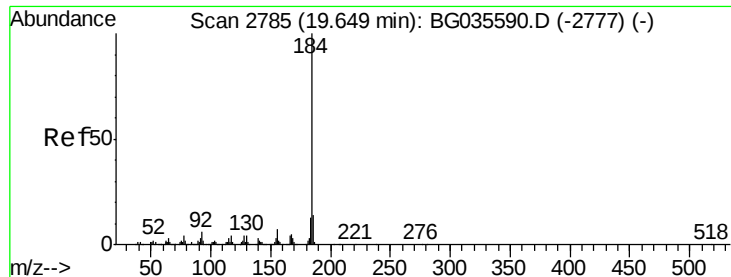
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.66 min Scan# 3127  
 Delta R.T. -0.00 min  
 Lab File: BG035883.D  
 Acq: 25 Jul 2018 21:05

Tgt Ion:240 Resp: 381225  
 Ion Ratio Lower Upper  
 240 100  
 120 5.6 6.8 10.2#  
 236 25.3 20.9 31.3



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





#76

Benzidine

Concen: 2.074 ng

RT: 20.00 min Scan# 2845

Delta R.T. 0.37 min

Lab File: BG035883.D

Acq: 25 Jul 2018 21:05

Instrument :

BNA\_G

ClientSampleId :

EPE-F-8(95-97)

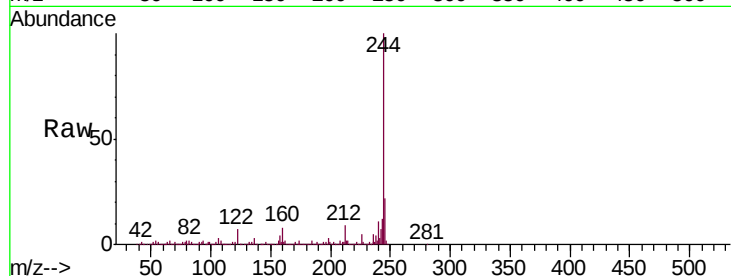
Tgt Ion:184 Resp: 20784

Ion Ratio Lower Upper

184 100

185 17.6 11.1 16.7#

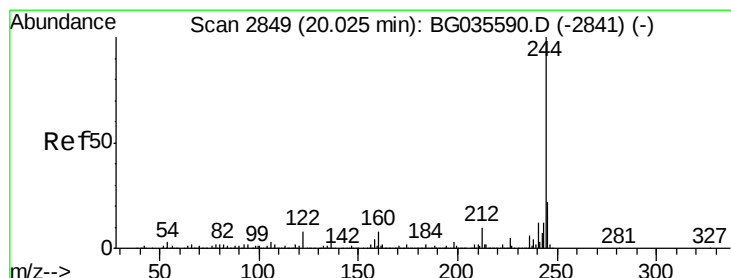
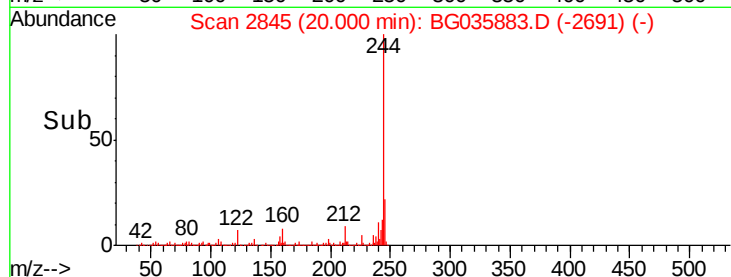
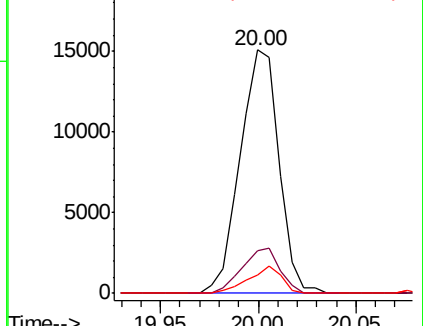
183 7.5 10.6 16.0#



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

Terphenyl-d14

Concen: 74.815 ng

RT: 20.00 min Scan# 2845

Delta R.T. -0.00 min

Lab File: BG035883.D

Acq: 25 Jul 2018 21:05

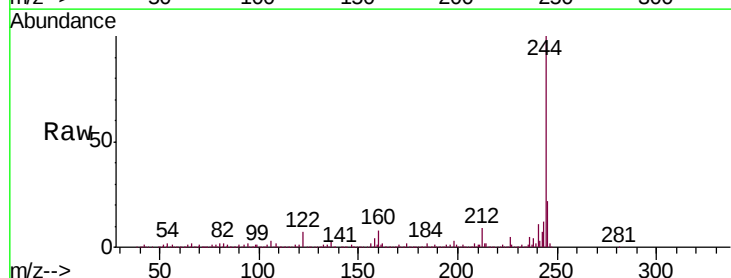
Tgt Ion:244 Resp: 1293890

Ion Ratio Lower Upper

244 100

212 9.2 5.8 8.8#

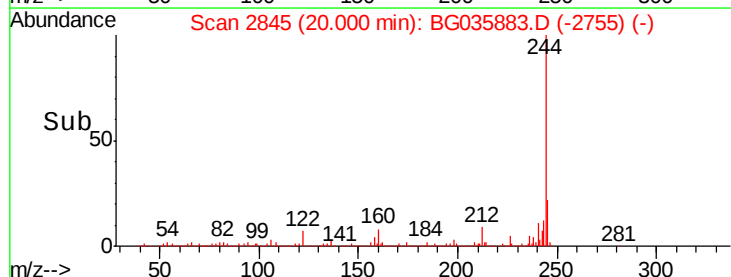
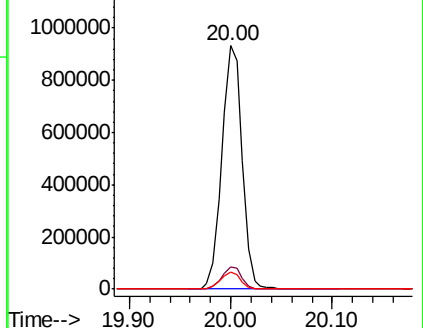
122 7.2 7.0 10.4

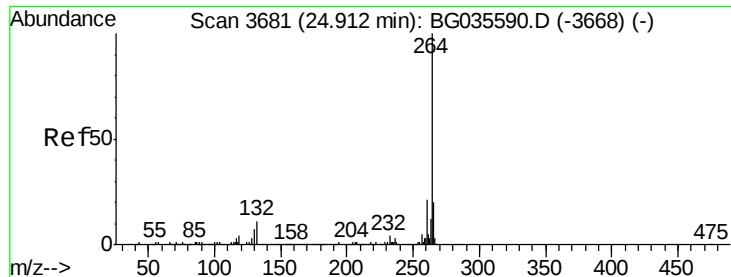


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.86 min Scan# 3672  
Delta R.T. -0.00 min  
Lab File: BG035883.D  
Acq: 25 Jul 2018 21:05

Instrument :  
BNA\_G  
ClientSampleId :  
EPE-F-8(95-97)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 17.4  | 26.0  |
| 265     | 21.6  | 17.7  | 26.5  |

