

Data Path : Z:\HPCHEM1\BNA G\DATA\BG082517\  
 Data File : BG028493.D  
 Acq On : 25 Aug 2017 15:45  
 Operator : SJ/JU  
 Sample : I4885-15  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 25 23:13:52 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Aug 25 23:11:18 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.34  | 152  | 39721    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.16 | 136  | 170357   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.95 | 164  | 117466   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.71 | 188  | 273942   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 22.03 | 240  | 313672   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.55 | 264  | 316652   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.82  | 96  | 3302   | 3.87  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.50  | 99  | 80242  | 18.39 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.66  | 67  | 55622  | 20.13 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.87  | 132 | 60531  | 21.99 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 9.04  | 113 | 62691  | 17.19 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.51  | 128 | 34213  | 25.68 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.23 | 143 | 37459  | 25.65 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.78 | 165 | 72442  | 23.97 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.29 | 131 | 90769  | 26.99 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.34 | 166 | 247544 | 23.69 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.65 | 160 | 295530 | 25.09 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.15 | 143 | 37878  | 22.80 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.95 | 176 | 221505 | 23.63 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 16.07 | 200 | 34537  | 19.41 | ng/ul | 0.01 |
| 70) Anthracene-d10             | 17.81 | 188 | 375339 | 28.57 | ng/ul | 0.01 |
| 76) Pyrene-d10                 | 20.08 | 212 | 432873 | 26.91 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.31 | 264 | 421621 | 28.44 | ng/ul | 0.02 |

## Target Compounds

|                                |       |     |        | Ovalue        |    |
|--------------------------------|-------|-----|--------|---------------|----|
| 6) Phenol                      | 7.51  | 94  | 6160   | 1.421 ng/ul#  | 85 |
| 15) N-Nitroso-di-n-propylamine | 9.12  | 70  | 3203   | 1.084 ng/ul#  | 65 |
| 17) Hexachloroethane           | 9.45  | 117 | 1640   | 1.476 ng/ul#  | 1  |
| 21) Isophorone                 | 10.06 | 82  | 21808  | 2.977 ng/ul#  | 1  |
| 24) 2,4-Dimethylphenol         | 10.36 | 107 | 8965   | 2.446 ng/ul#  | 61 |
| 33) 4-Chloro-3-methylphenol    | 12.43 | 107 | 3658   | 1.042 ng/ul#  | 25 |
| 39) 2,4,5-Trichlorophenol      | 13.46 | 196 | 4080   | 1.586 ng/ul#  | 28 |
| 44) Dimethylphthalate          | 14.39 | 163 | 154843 | 16.096 ng/ul# | 95 |
| 45) 2,6-Dinitrotoluene         | 14.49 | 165 | 9510   | 4.788 ng/ul#  | 36 |
| 47) Acenaphthylene             | 14.68 | 152 | 14092  | 1.252 ng/ul#  | 1  |
| 48) 3-Nitroaniline             | 14.85 | 138 | 5802   | 3.244 ng/ul#  | 32 |
| 49) Acenaphthene               | 15.03 | 153 | 31137  | 4.099 ng/ul#  | 61 |
| 52) 4-Nitrophenol              | 15.18 | 109 | 6730   | 3.910 ng/ul#  | 52 |
| 53) Dibenzofuran               | 15.26 | 168 | 11773  | 1.063 ng/ul   | 95 |
| 58) Fluorene                   | 16.00 | 166 | 62044  | 6.328 ng/ul#  | 86 |
| 64) N-Nitrosodiphenylamine     | 16.20 | 169 | 184233 | 25.563 ng/ul# | 36 |
| 69) Phenanthrene               | 17.75 | 178 | 294701 | 21.376 ng/ul# | 94 |
| 71) Anthracene                 | 17.84 | 178 | 27362  | 1.942 ng/ul#  | 84 |
| 74) Fluoranthene               | 19.74 | 202 | 100083 | 5.974 ng/ul   | 99 |
| 80) Benzo(a)anthracene         | 22.01 | 228 | 46713  | 2.577 ng/ul   | 98 |
| 81) Bis(2-ethylhexyl)phthalate | 21.86 | 149 | 28346  | 2.843 ng/ul   | 98 |
| 82) Chrysene                   | 22.08 | 228 | 38932  | 2.385 ng/ul   | 97 |
| 85) Benzo(b)fluoranthene       | 24.42 | 252 | 46277  | 2.442 ng/ul#  | 92 |

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Quant Title : SVOA CALIBRATION  
QLast Update : Fri Aug 25 23:11:18 2017  
Response via : Initial Calibration

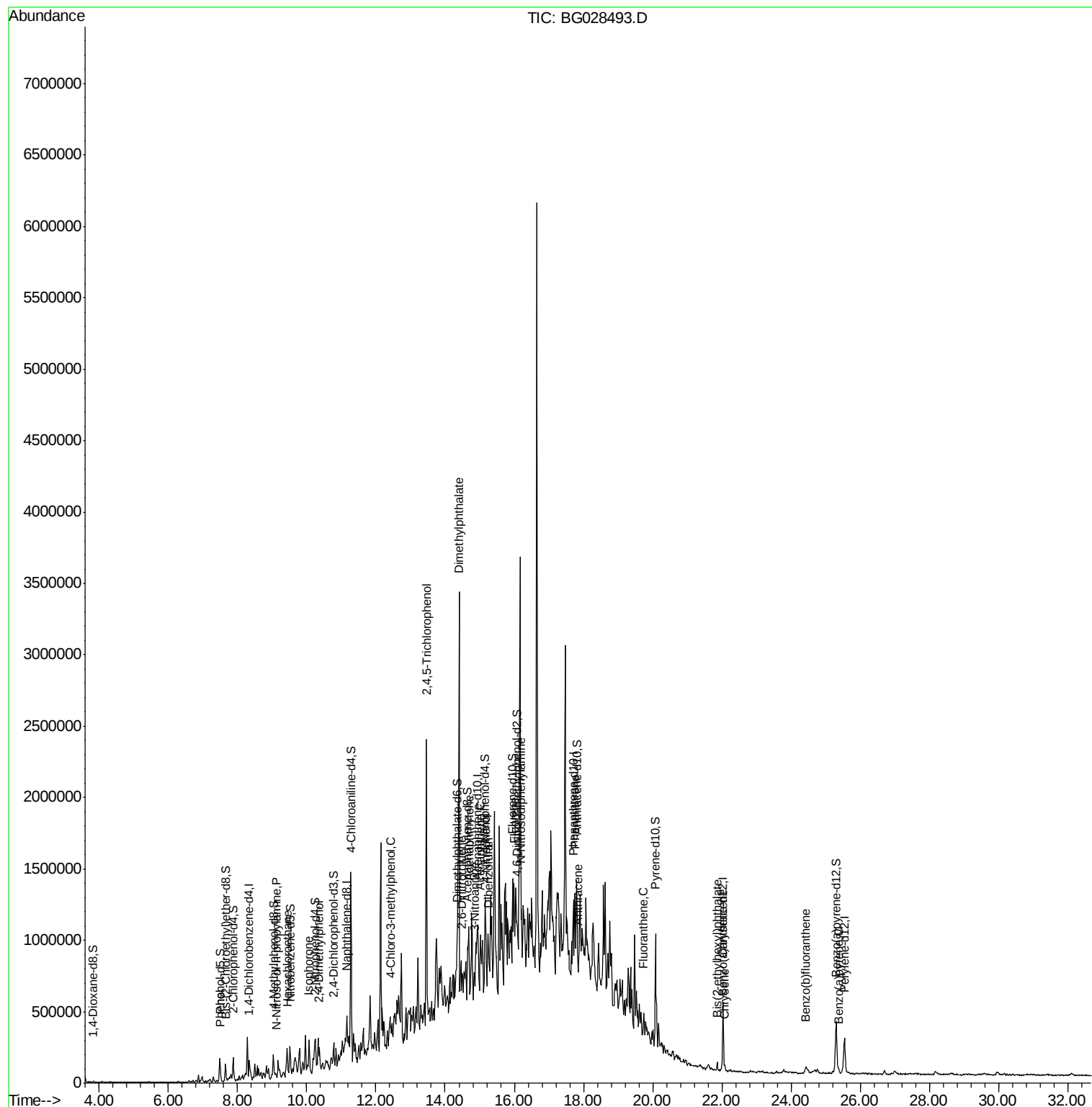
| Internal Standards | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------|-------|------|----------|-------|--------|----------|
| 88) Benzo(a)pyrene | 25.38 | 252  | 32115    | 1.750 | ng/ul# | 92       |

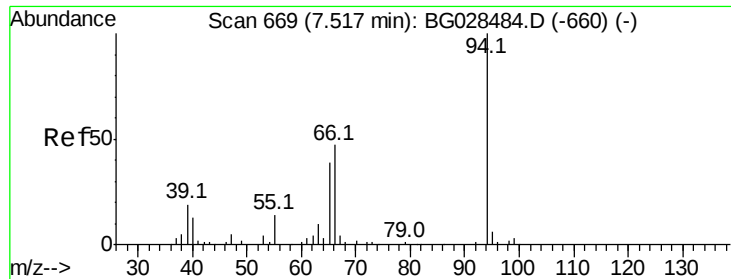
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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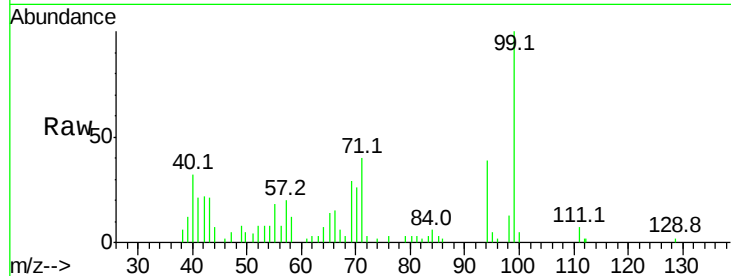
#6

Phenol

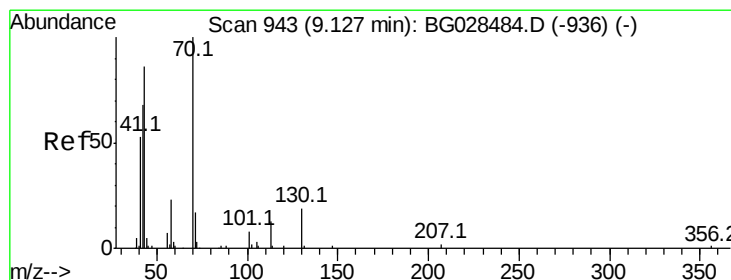
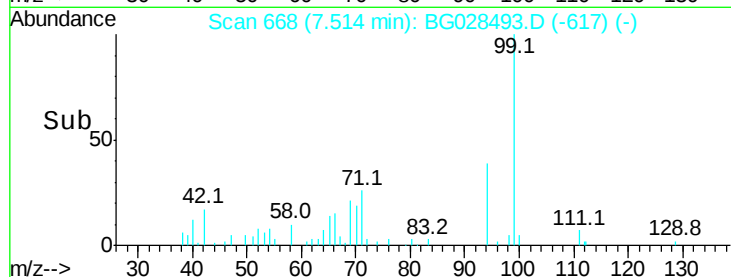
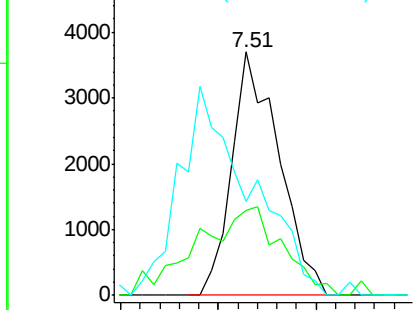
Concen: 1.421 ng/ul  
 RT: 7.51 min Scan# 668  
 Delta R.T. -0.00 min  
 Lab File: BG028493.D  
 Acq: 25 Aug 2017 15:45

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion: 94 Resp: 6160  
 Ion Ratio Lower Upper  
 94 100  
 65 34.8 26.8 40.2  
 66 38.7 44.4 66.6#



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

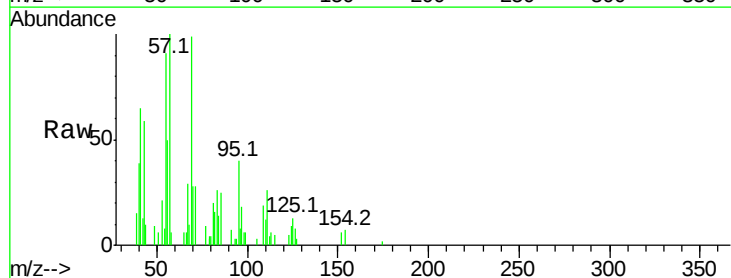


#15

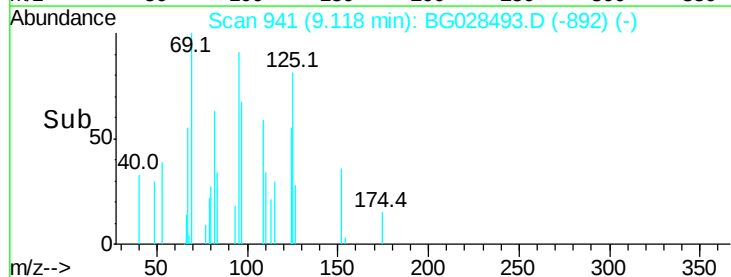
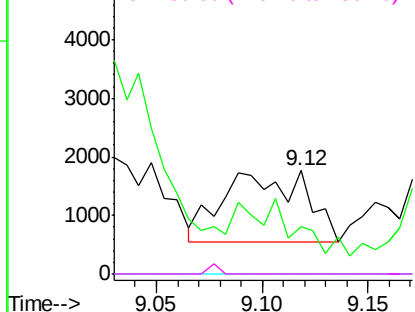
N-Nitroso-di-n-propylamine

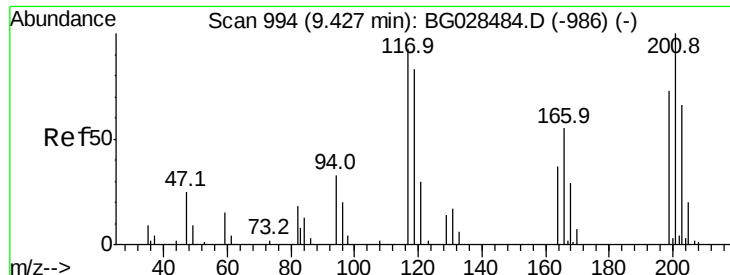
Concen: 1.084 ng/ul  
 RT: 9.12 min Scan# 941  
 Delta R.T. -0.01 min  
 Lab File: BG028493.D  
 Acq: 25 Aug 2017 15:45

Tgt Ion: 70 Resp: 3203  
 Ion Ratio Lower Upper  
 70 100  
 42 45.4 59.0 88.6#  
 101 0.0 6.6 9.8#  
 130 0.0 15.6 23.4#



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

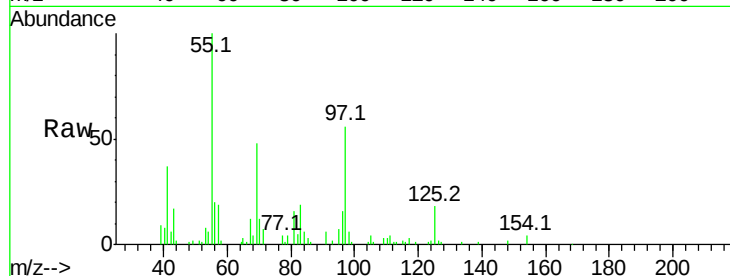




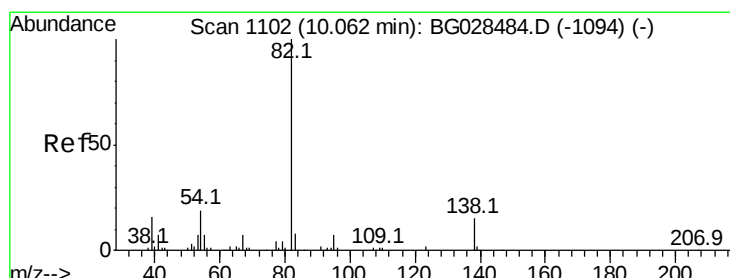
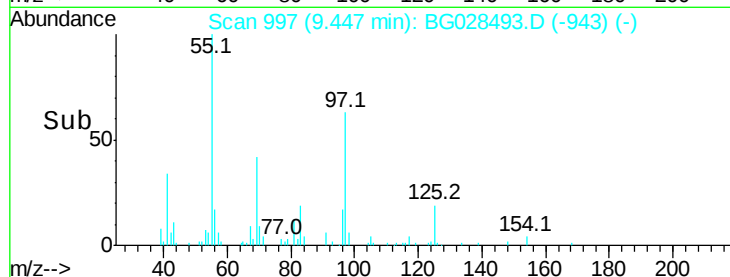
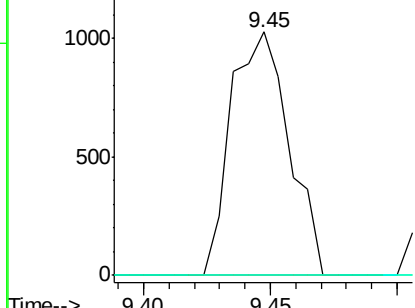
#17  
Hexachloroethane  
Concen: 1.476 ng/ul  
RT: 9.45 min Scan# 997  
Delta R.T. 0.02 min  
Lab File: BG028493.D  
Acq: 25 Aug 2017 15:45

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:117 Resp: 1640  
Ion Ratio Lower Upper  
117 100  
201 0.0 91.9 137.9#  
199 0.0 64.3 96.5#

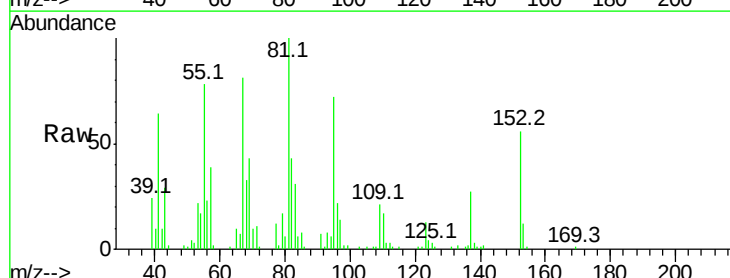


Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 201.00 (200.70 to 201.70): E  
Ion 199.00 (198.70 to 199.70): E

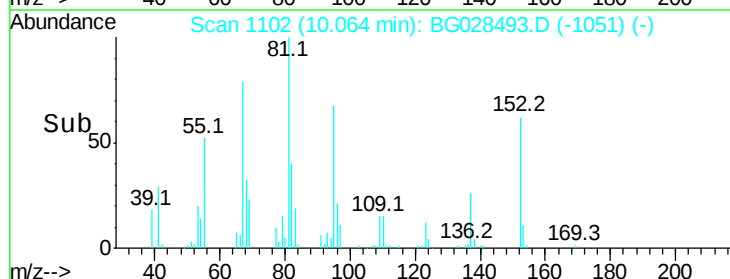
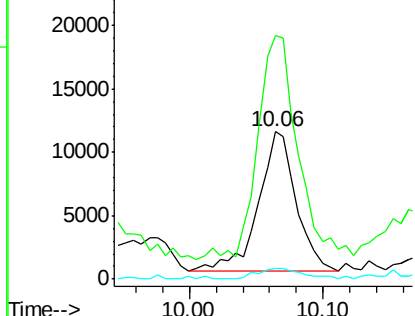


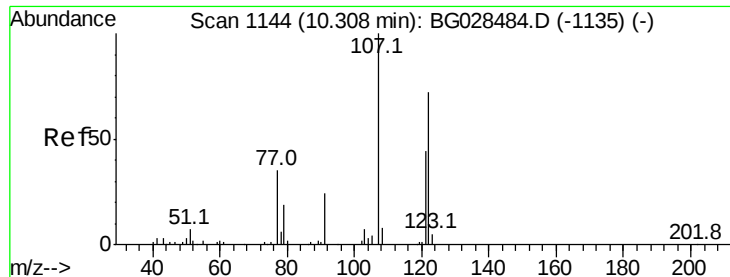
#21  
Isophorone  
Concen: 2.977 ng/ul  
RT: 10.06 min Scan# 1102  
Delta R.T. 0.00 min  
Lab File: BG028493.D  
Acq: 25 Aug 2017 15:45

Tgt Ion: 82 Resp: 21808  
Ion Ratio Lower Upper  
82 100  
95 165.3 7.8 11.6#  
138 7.5 12.2 18.2#



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC  
Ion 138.00 (137.70 to 138.70): E

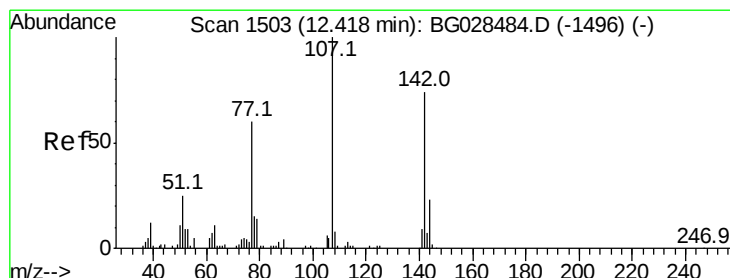
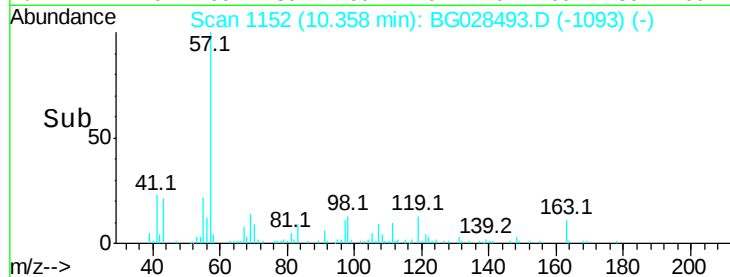
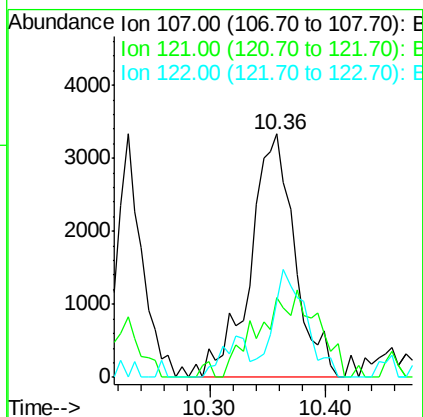
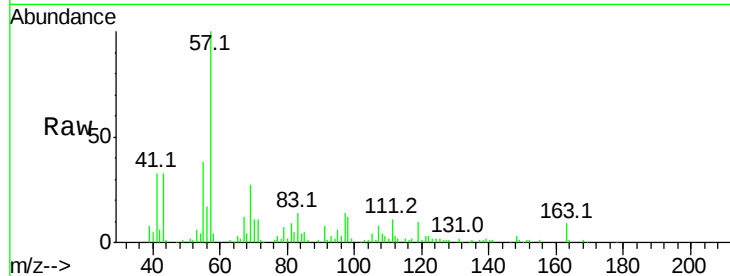




#24  
2,4-Dimethylphenol  
Concen: 2.446 ng/ul  
RT: 10.36 min Scan# 1152  
Delta R.T. 0.05 min  
Lab File: BG028493.D  
Acq: 25 Aug 2017 15:45

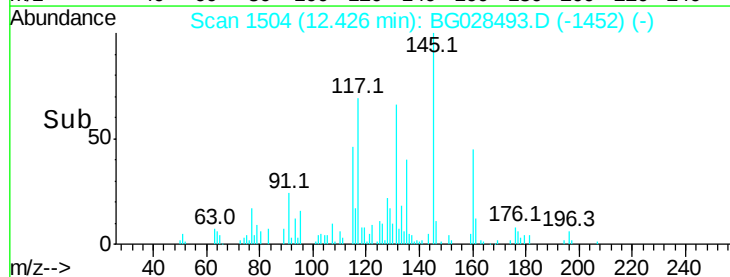
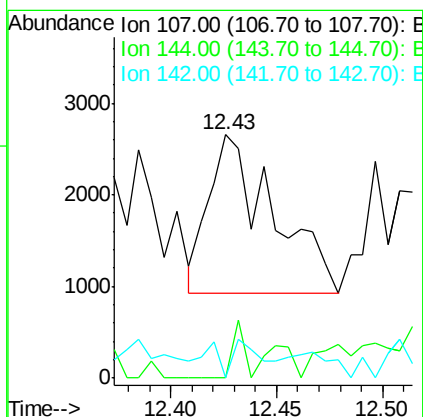
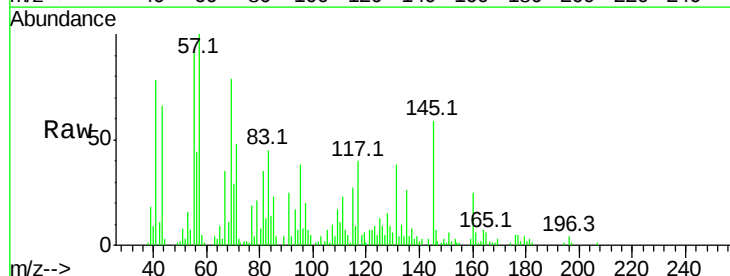
Instrument :  
BNA\_G  
ClientSampleId :

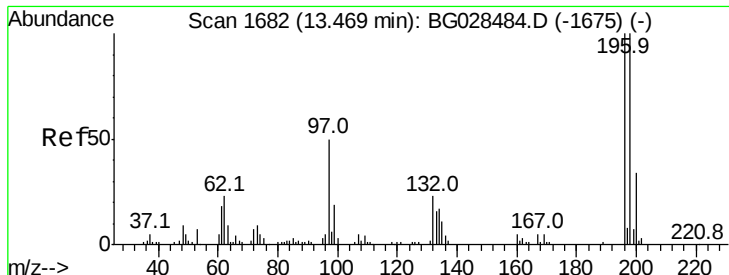
Tot Ion:107 Resp: 8965  
Ion Ratio Lower Upper  
107 100  
121 32.6 32.3 48.5  
122 31.4 61.2 91.8#



#33  
4-Chloro-3-methylphenol  
Concen: 1.042 ng/ul  
RT: 12.43 min Scan# 1504  
Delta R.T. 0.01 min  
Lab File: BG028493.D  
Acq: 25 Aug 2017 15:45

Tgt Ion:107 Resp: 3658  
Ion Ratio Lower Upper  
107 100  
144 0.0 18.2 27.4#  
142 0.0 55.0 82.4#

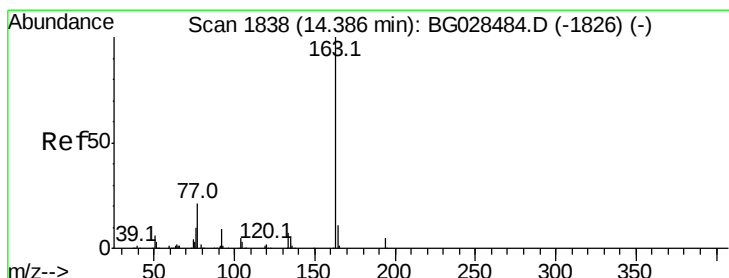
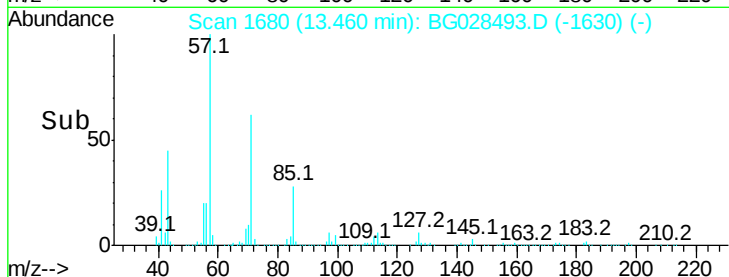
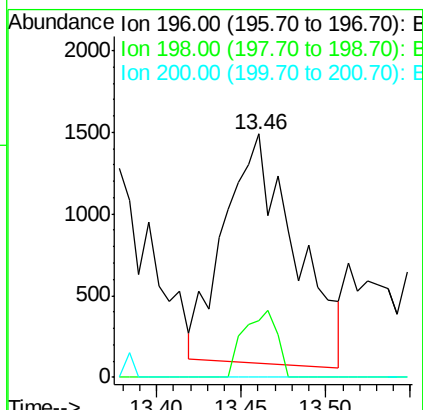
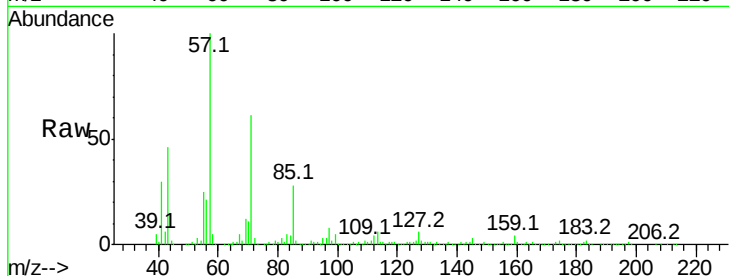




#39  
 2,4,5-Trichlorophenol  
 Concen: 1.586 ng/ul  
 RT: 13.46 min Scan# 1680  
 Delta R.T. -0.01 min  
 Lab File: BG028493.D  
 Acq: 25 Aug 2017 15:45

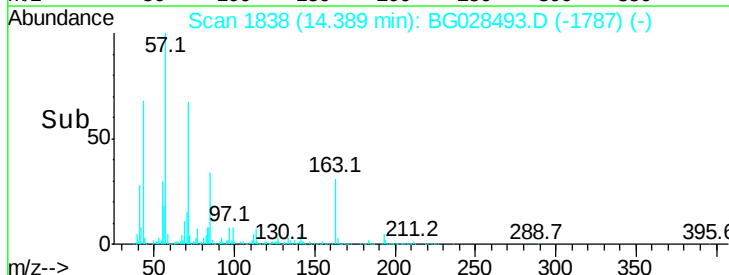
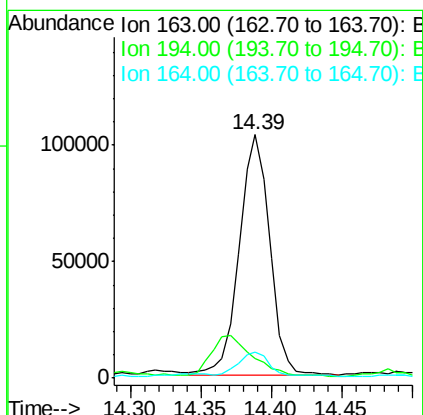
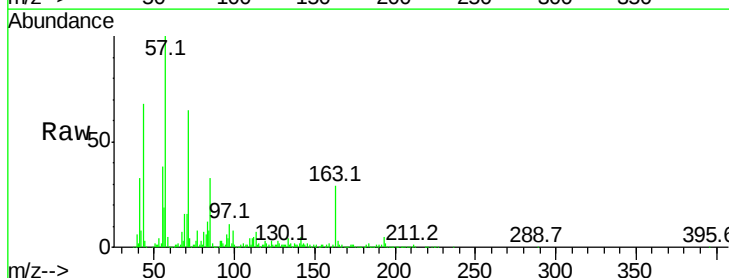
Instrument :  
 BNA\_G  
 ClientSampleId :

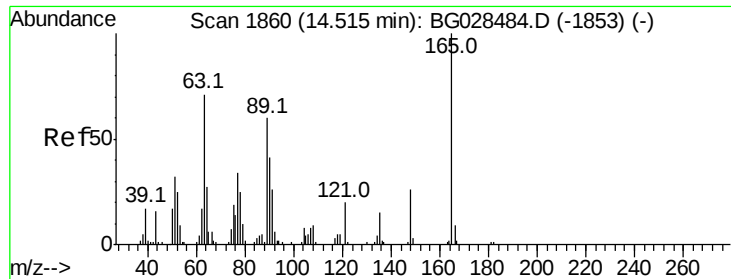
Tot Ion:196 Resp: 4080  
 Ion Ratio Lower Upper  
 196 100  
 198 23.1 78.6 118.0#  
 200 0.0 27.3 40.9#



#44  
 Dimethylphthalate  
 Concen: 16.096 ng/ul  
 RT: 14.39 min Scan# 1838  
 Delta R.T. 0.00 min  
 Lab File: BG028493.D  
 Acq: 25 Aug 2017 15:45

Tgt Ion:163 Resp: 154843  
 Ion Ratio Lower Upper  
 163 100  
 194 8.2 3.4 5.0#  
 164 10.6 9.0 13.4





#45

2,6-Dinitrotoluene

Concen: 4.788 ng/ul

RT: 14.49 min Scan# 1855

Delta R.T. -0.03 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

Instrument :

BNA\_G

ClientSampled :

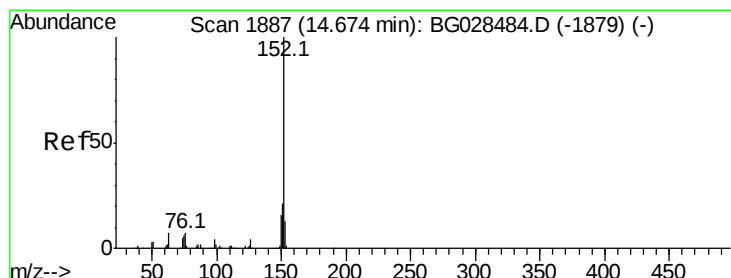
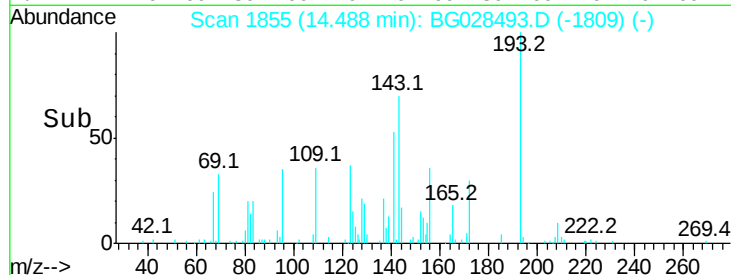
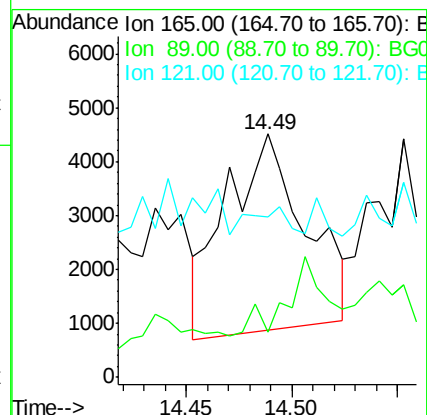
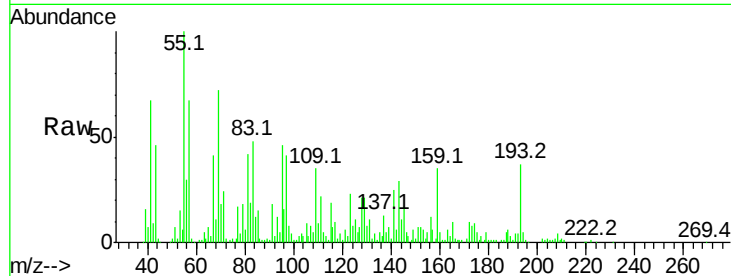
Tot Ion:165 Resp: 9510

Ion Ratio Lower Upper

165 100

89 18.5 52.9 79.3#

121 65.7 22.2 33.4#



#47

Acenaphthylene

Concen: 1.252 ng/ul

RT: 14.68 min Scan# 1888

Delta R.T. 0.01 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

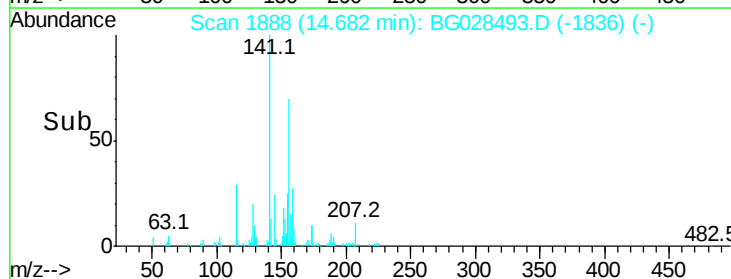
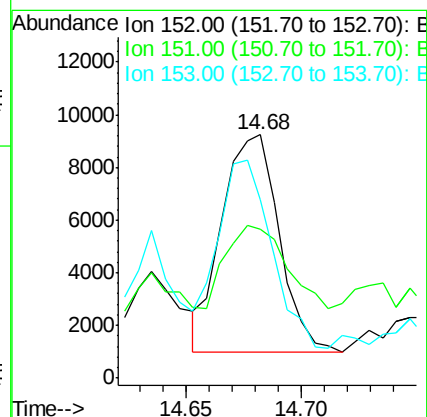
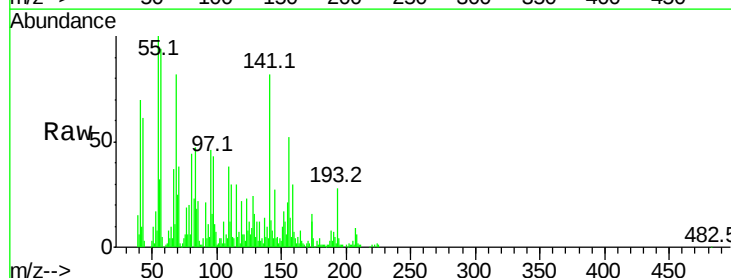
Tgt Ion:152 Resp: 14092

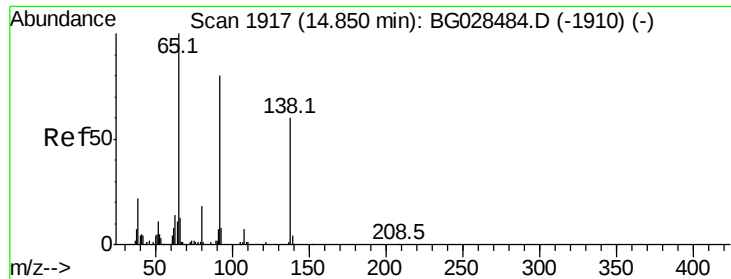
Ion Ratio Lower Upper

152 100

151 61.3 16.7 25.1#

153 73.0 11.4 17.2#





#48

3-Nitroaniline

Concen: 3.244 ng/ul

RT: 14.85 min Scan# 1917

Delta R.T. 0.00 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

Instrument :

BNA\_G

ClientSampleId :

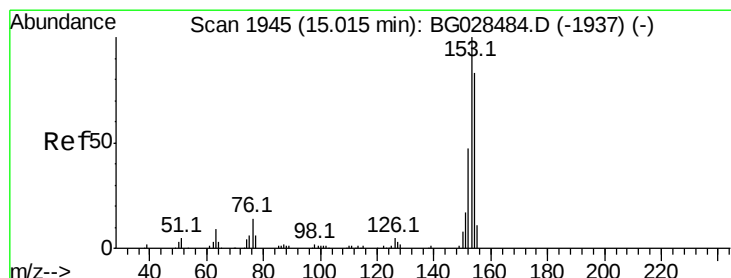
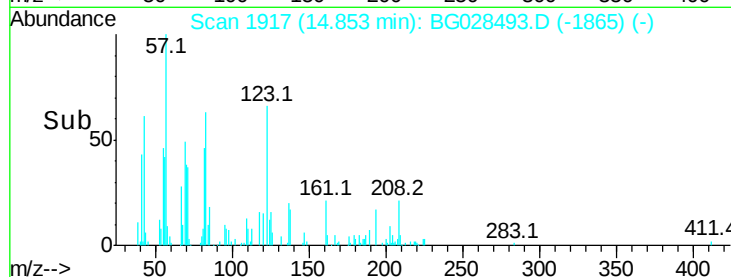
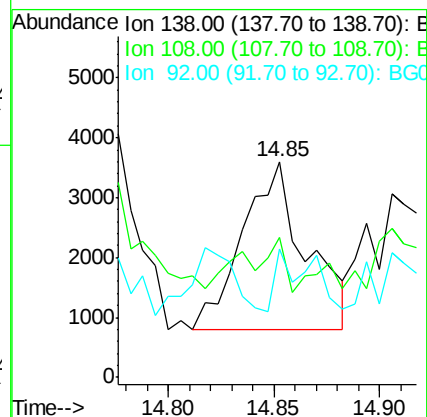
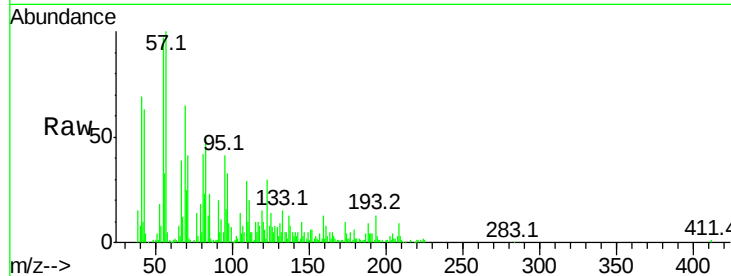
Tot Ion:138 Resp: 5802

Ion Ratio Lower Upper

138 100

108 64.8 6.3 9.5#

92 59.4 106.4 159.6#



#49

Acenaphthene

Concen: 4.099 ng/ul

RT: 15.03 min Scan# 1947

Delta R.T. 0.01 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

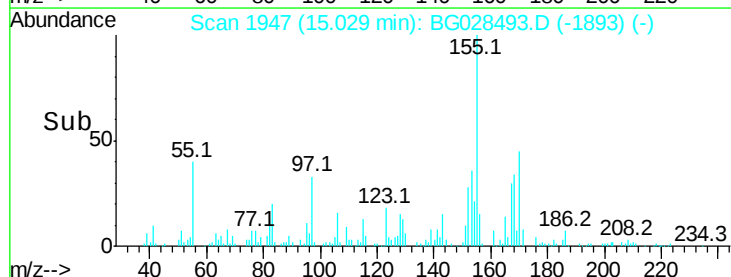
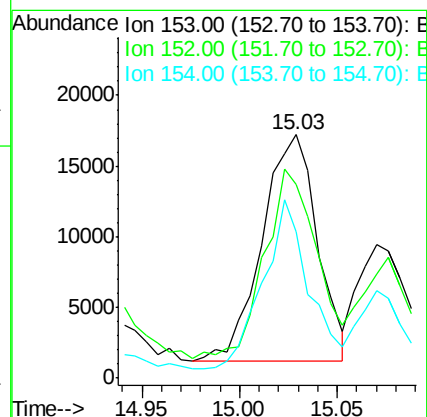
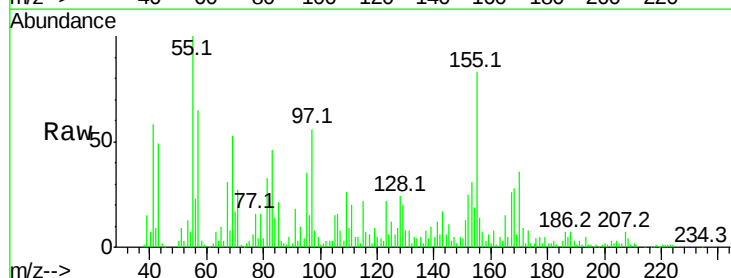
Tgt Ion:153 Resp: 31137

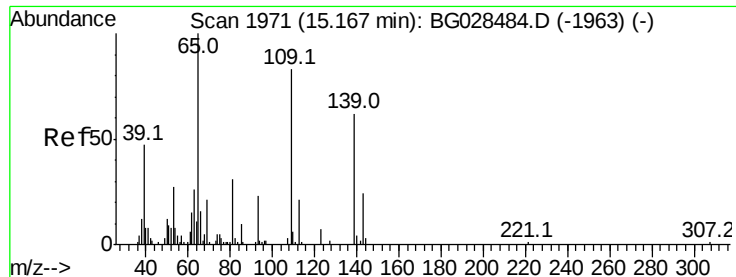
Ion Ratio Lower Upper

153 100

152 79.4 36.5 54.7#

154 60.0 72.3 108.5#





#52

4-Nitrophenol

Concen: 3.910 ng/ul

RT: 15.18 min Scan# 1973

Delta R.T. 0.01 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

Instrument :

BNA\_G

ClientSampleId :

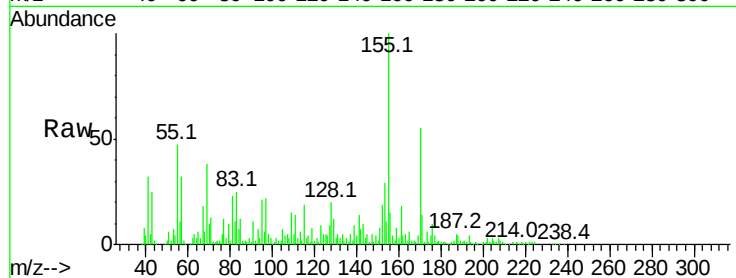
Tot Ion:109 Resp: 6730

Ion Ratio Lower Upper

109 100

139 62.1 62.6 93.8#

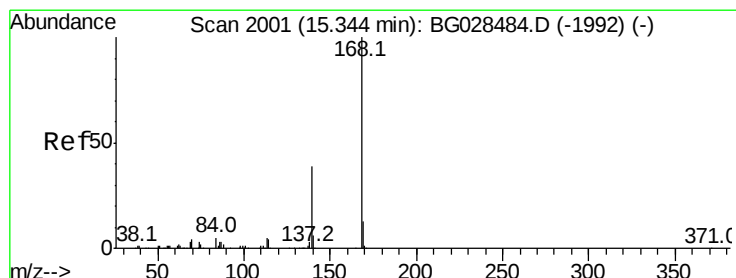
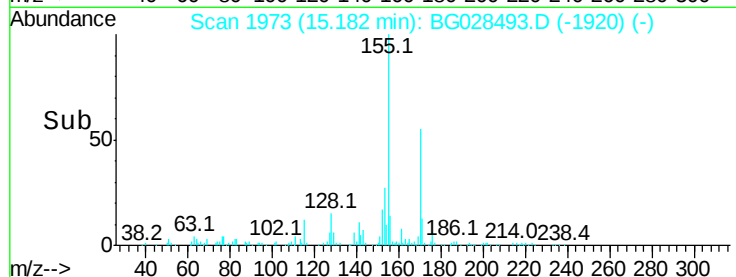
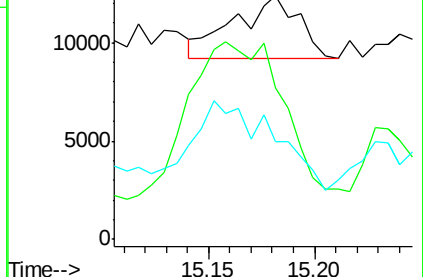
65 40.2 90.4 135.6#



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): BGC



#53

Dibenzofuran

Concen: 1.063 ng/ul

RT: 15.26 min Scan# 1986

Delta R.T. -0.09 min

Lab File: BG028493.D

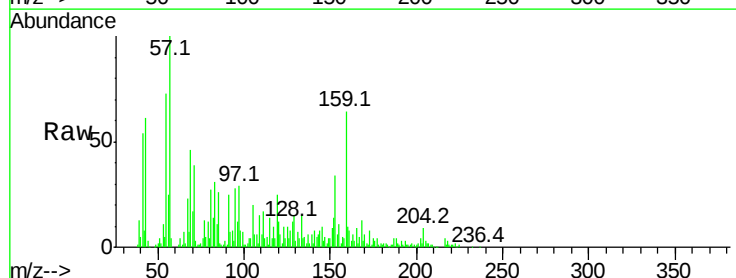
Acq: 25 Aug 2017 15:45

Tgt Ion:168 Resp: 11773

Ion Ratio Lower Upper

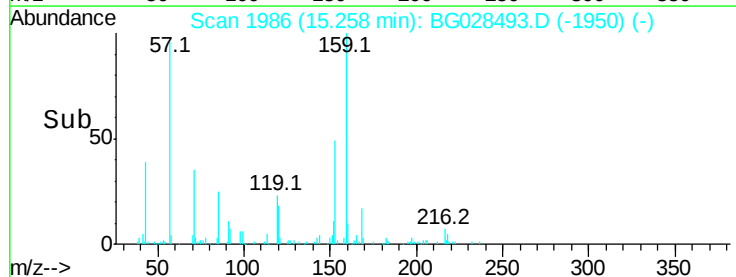
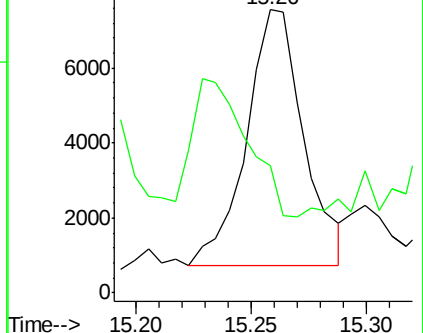
168 100

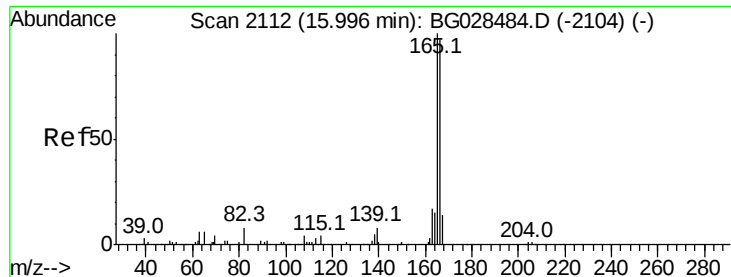
139 45.2 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 6.328 ng/ul

RT: 16.00 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

Instrument :

BNA\_G

ClientSampleId :

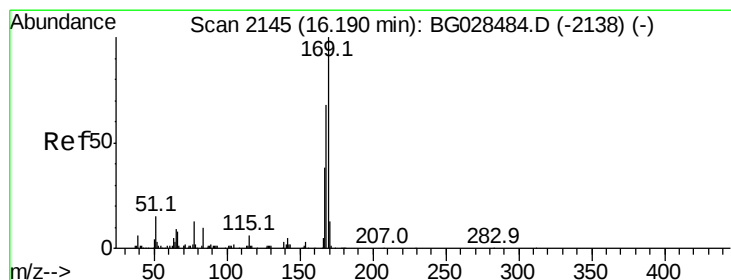
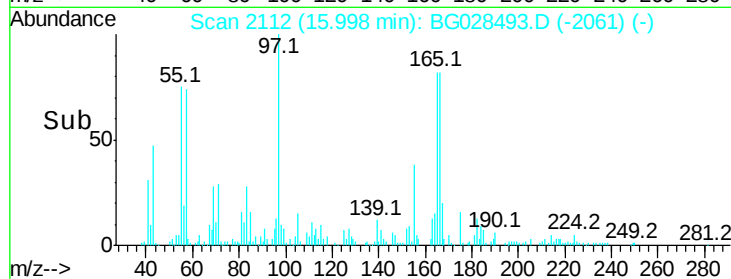
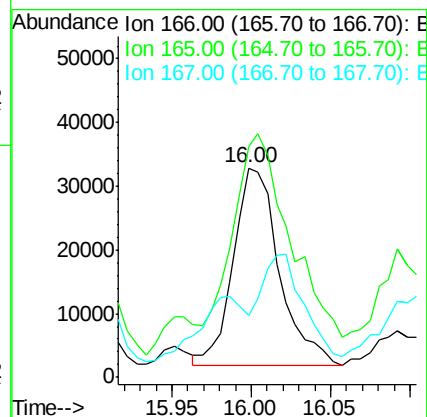
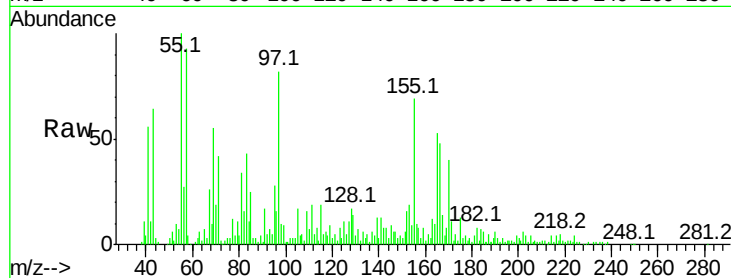
Tot Ion:166 Resp: 62044

Ion Ratio Lower Upper

166 100

165 110.3 79.7 119.5

167 29.5 11.4 17.2#



#64

N-Nitrosodiphenylamine

Concen: 25.563 ng/ul

RT: 16.20 min Scan# 2146

Delta R.T. 0.01 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

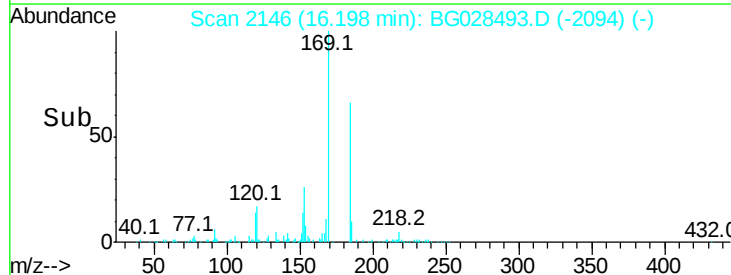
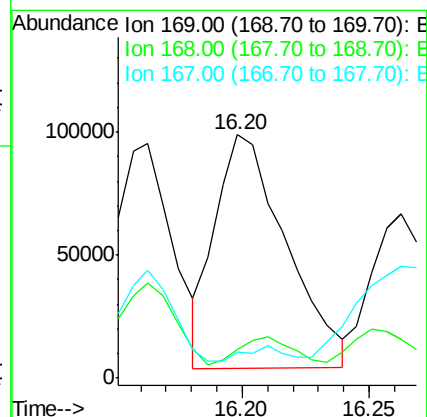
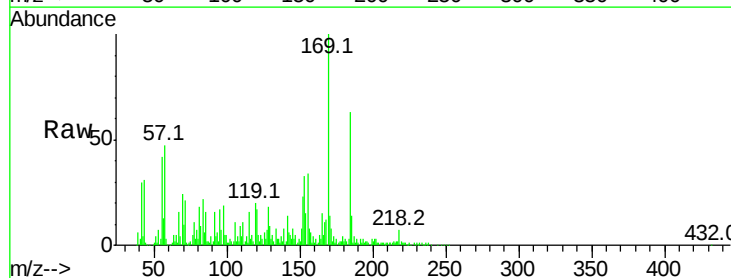
Tgt Ion:169 Resp: 184233

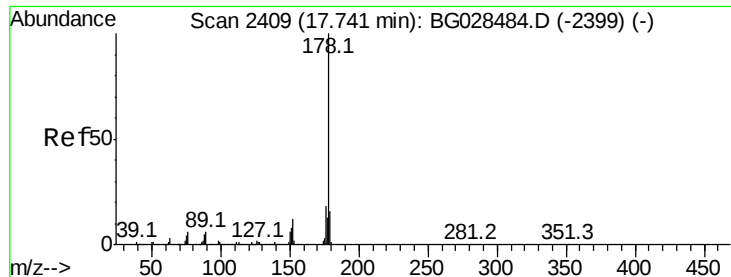
Ion Ratio Lower Upper

169 100

168 11.5 59.1 88.7#

167 10.8 29.7 44.5#





#69

Phenanthrene

Concen: 21.376 ng/ul

RT: 17.75 min Scan# 2410

Delta R.T. 0.01 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

Instrument :

BNA\_G

ClientSampled :

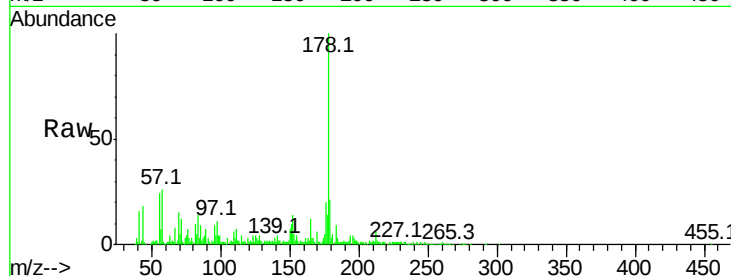
Tot Ion:178 Resp: 294701

Ion Ratio Lower Upper

178 100

179 20.8 12.4 18.6#

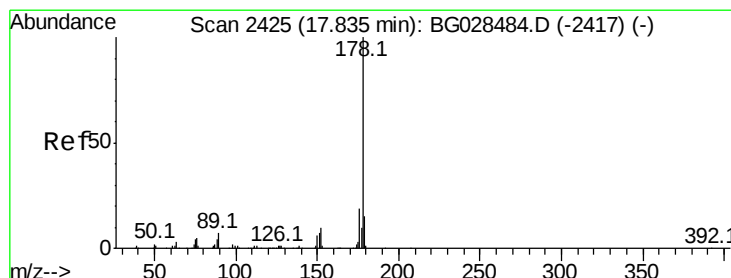
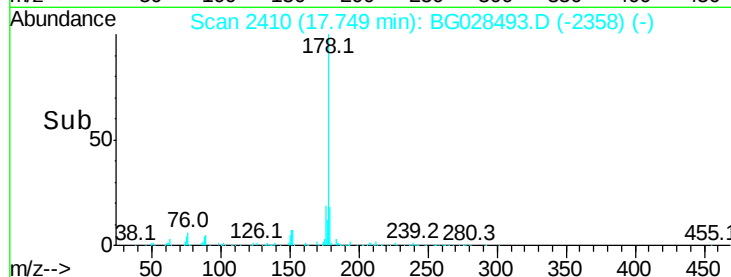
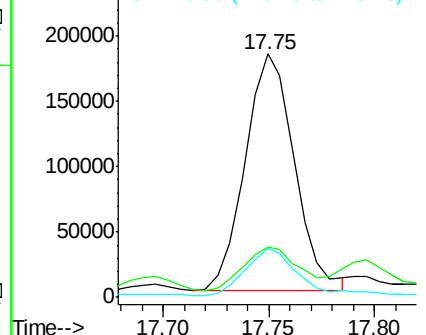
176 20.0 16.5 24.7



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: 1.942 ng/ul

RT: 17.84 min Scan# 2425

Delta R.T. 0.00 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

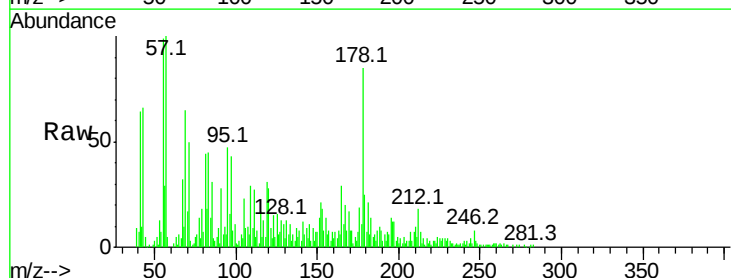
Tgt Ion:178 Resp: 27362

Ion Ratio Lower Upper

178 100

179 29.1 12.6 19.0#

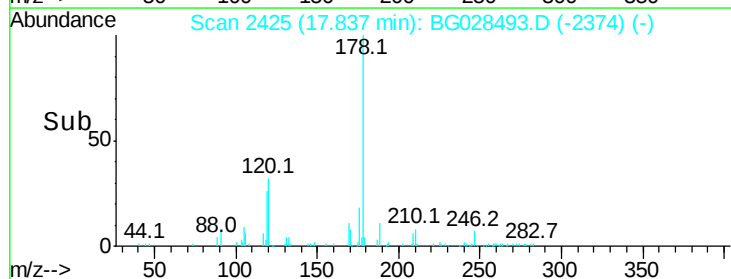
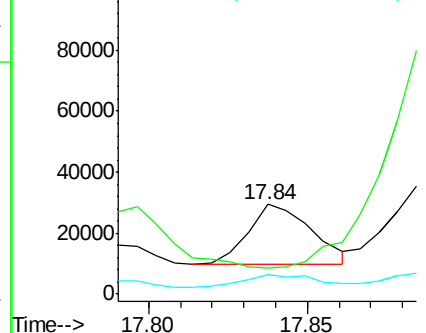
176 21.9 15.9 23.9

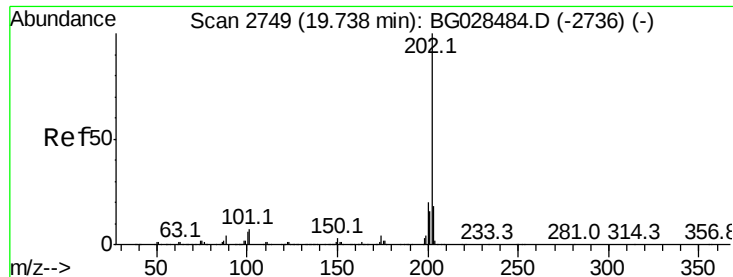


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Fluoranthene

Concen: 5.974 ng/ul

RT: 19.74 min Scan# 2749

Delta R.T. 0.00 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

Instrument :

BNA\_G

ClientSampleId :

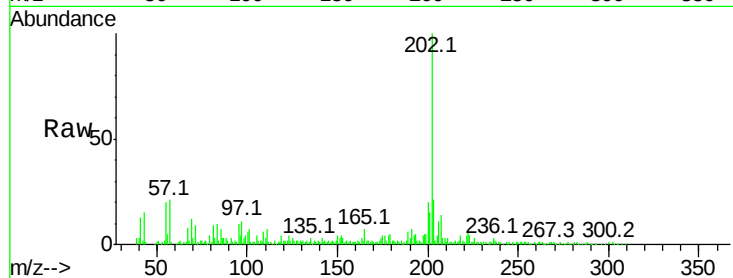
Tot Ion:202 Resp: 100083

Ion Ratio Lower Upper

202 100

101 7.4 6.2 9.2

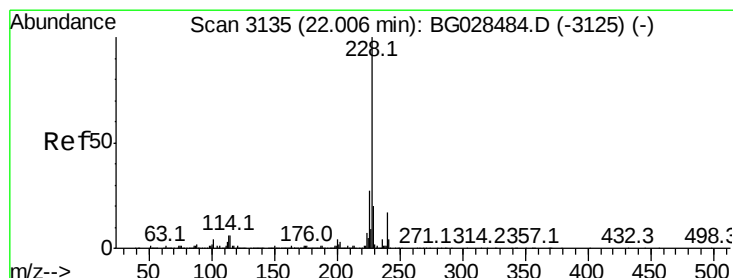
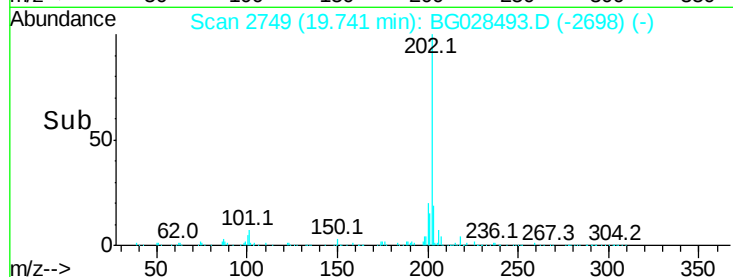
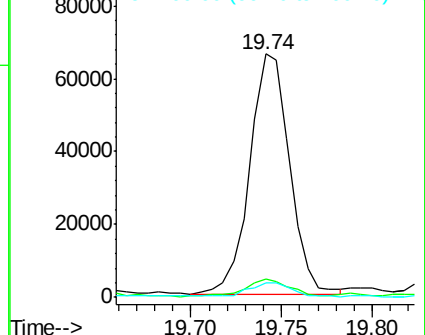
100 5.9 5.2 7.8



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): E



#80

Benzo(a)anthracene

Concen: 2.577 ng/ul

RT: 22.01 min Scan# 3135

Delta R.T. 0.00 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

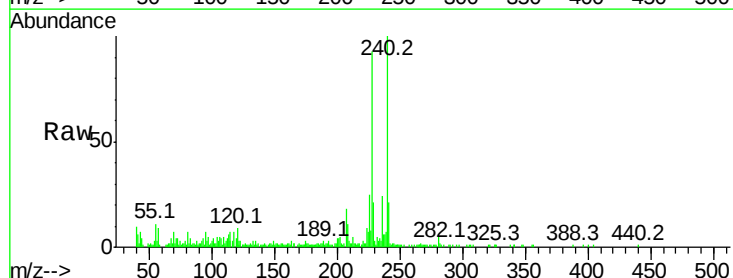
Tgt Ion:228 Resp: 46713

Ion Ratio Lower Upper

228 100

229 22.1 16.3 24.5

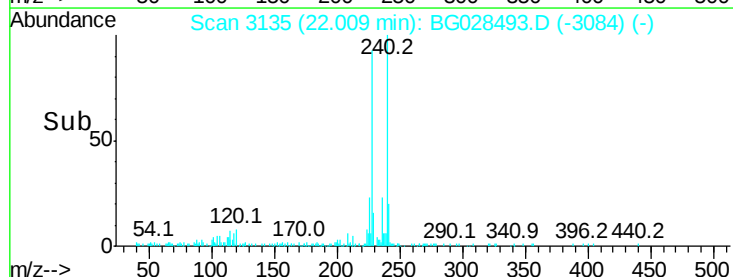
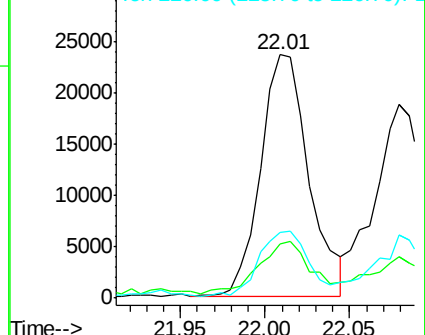
226 27.0 21.9 32.9

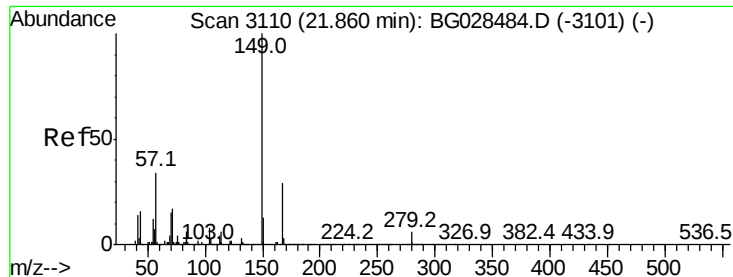


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#81

Bis(2-ethylhexyl)phthalate

Concen: 2.843 ng/ul

RT: 21.86 min Scan# 3110

Delta R.T. 0.00 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

Instrument :

BNA\_G

ClientSampleId :

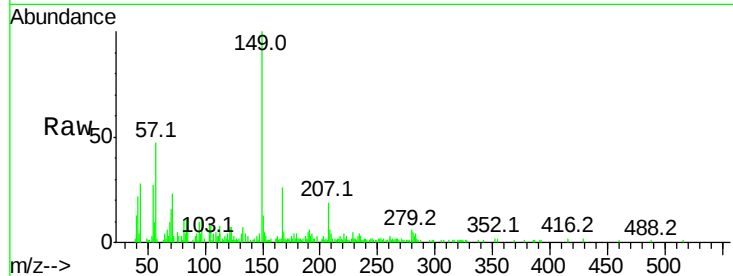
Tot Ion:149 Resp: 28346

Ion Ratio Lower Upper

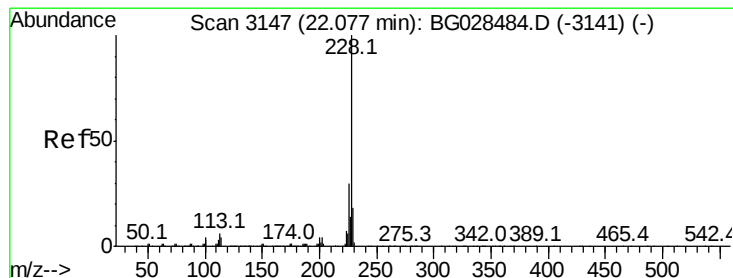
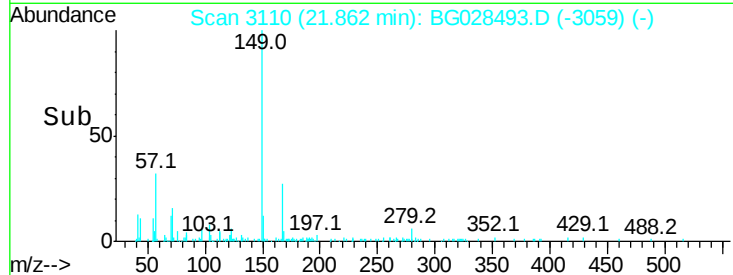
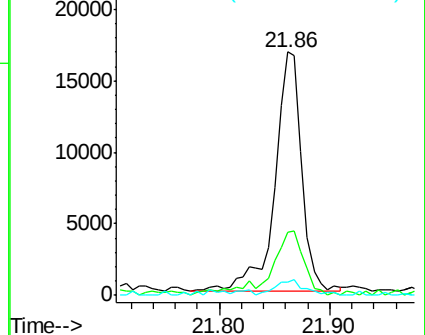
149 100

167 26.0 21.8 32.8

279 5.5 4.5 6.7



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



#82

Chrysene

Concen: 2.385 ng/ul

RT: 22.08 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

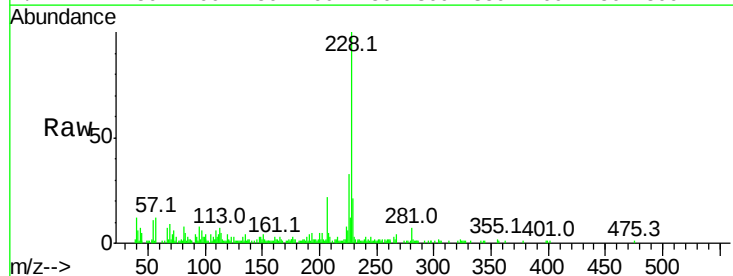
Tgt Ion:228 Resp: 38932

Ion Ratio Lower Upper

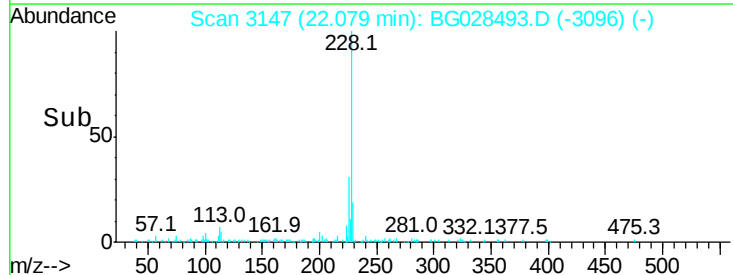
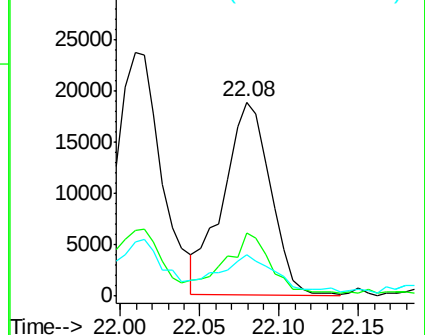
228 100

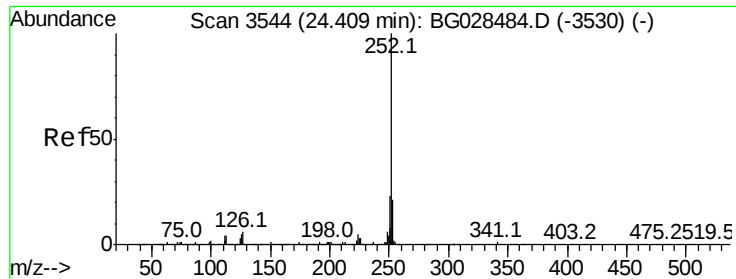
226 32.8 24.0 36.0

229 21.1 16.9 25.3



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





#85

Benzo(b)fluoranthene

Concen: 2.442 ng/ul

RT: 24.42 min Scan# 3546

Delta R.T. 0.01 min

Lab File: BG028493.D

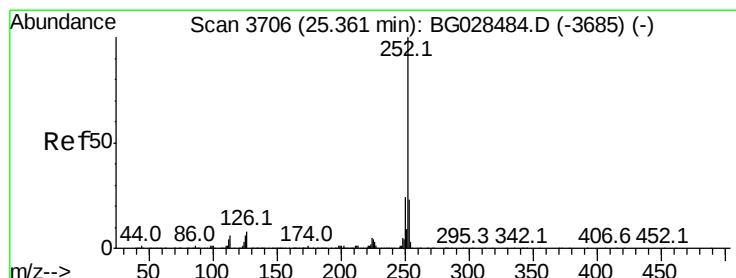
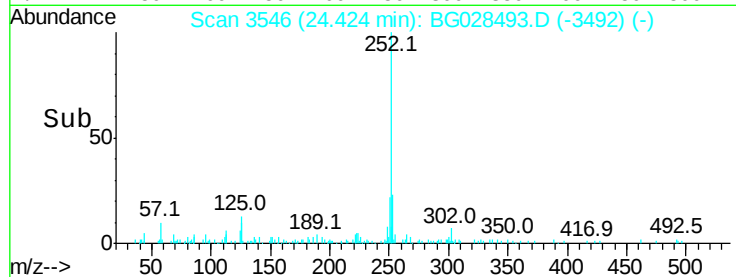
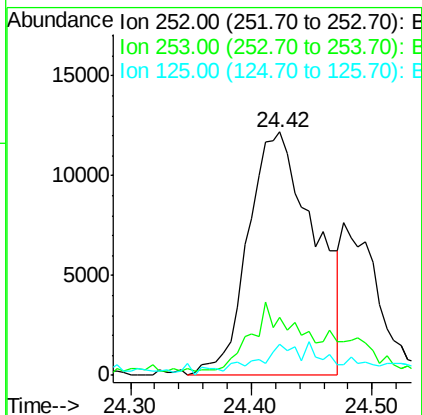
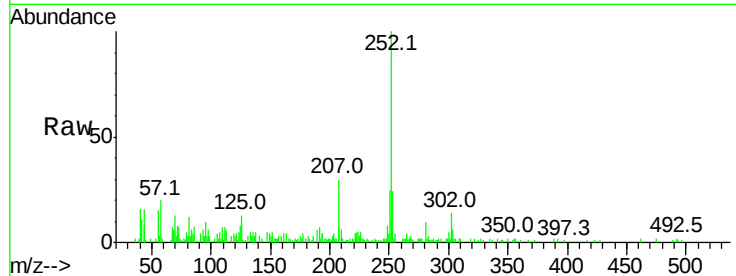
Acq: 25 Aug 2017 15:45

Instrument :

BNA\_G

ClientSampleId :

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:252 | Resp: | 46277     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 24.0  | 17.7 26.5 |
| 125         | 13.0  | 4.0 6.0#  |



#88

Benzo(a)pyrene

Concen: 1.750 ng/ul

RT: 25.38 min Scan# 3708

Delta R.T. 0.01 min

Lab File: BG028493.D

Acq: 25 Aug 2017 15:45

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 32115     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.7  | 17.8 26.6 |
| 125         | 15.6  | 5.4 8.0#  |

