

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121516\  
 Data File : BG025230.D  
 Acq On : 16 Dec 2016 3:09  
 Operator : UM/SJ  
 Sample : H5995-17MS  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 16 06:00:39 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 16 05:54:49 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 80090    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 345001   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 275326   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 540656   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.89 | 240  | 646572   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.32 | 264  | 668907   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.60  | 96  | 4272   | 2.76  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.39  | 99  | 112973 | 16.35 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.55  | 67  | 72955  | 17.07 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.76  | 132 | 73360  | 15.18 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.95  | 113 | 96056  | 16.64 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.42  | 128 | 46970  | 19.23 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 34518  | 11.33 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.68 | 165 | 85977  | 14.68 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.21 | 131 | 82107  | 14.26 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 333107 | 17.59 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 396960 | 19.14 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.07 | 143 | 16138  | 4.96  | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.84 | 176 | 302524 | 16.97 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.97 | 200 | 7335   | 2.19  | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.70 | 188 | 450333 | 19.73 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.97 | 212 | 519896 | 19.52 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.09 | 264 | 530731 | 19.58 | ng/ul | 0.00 |

## Target Compounds

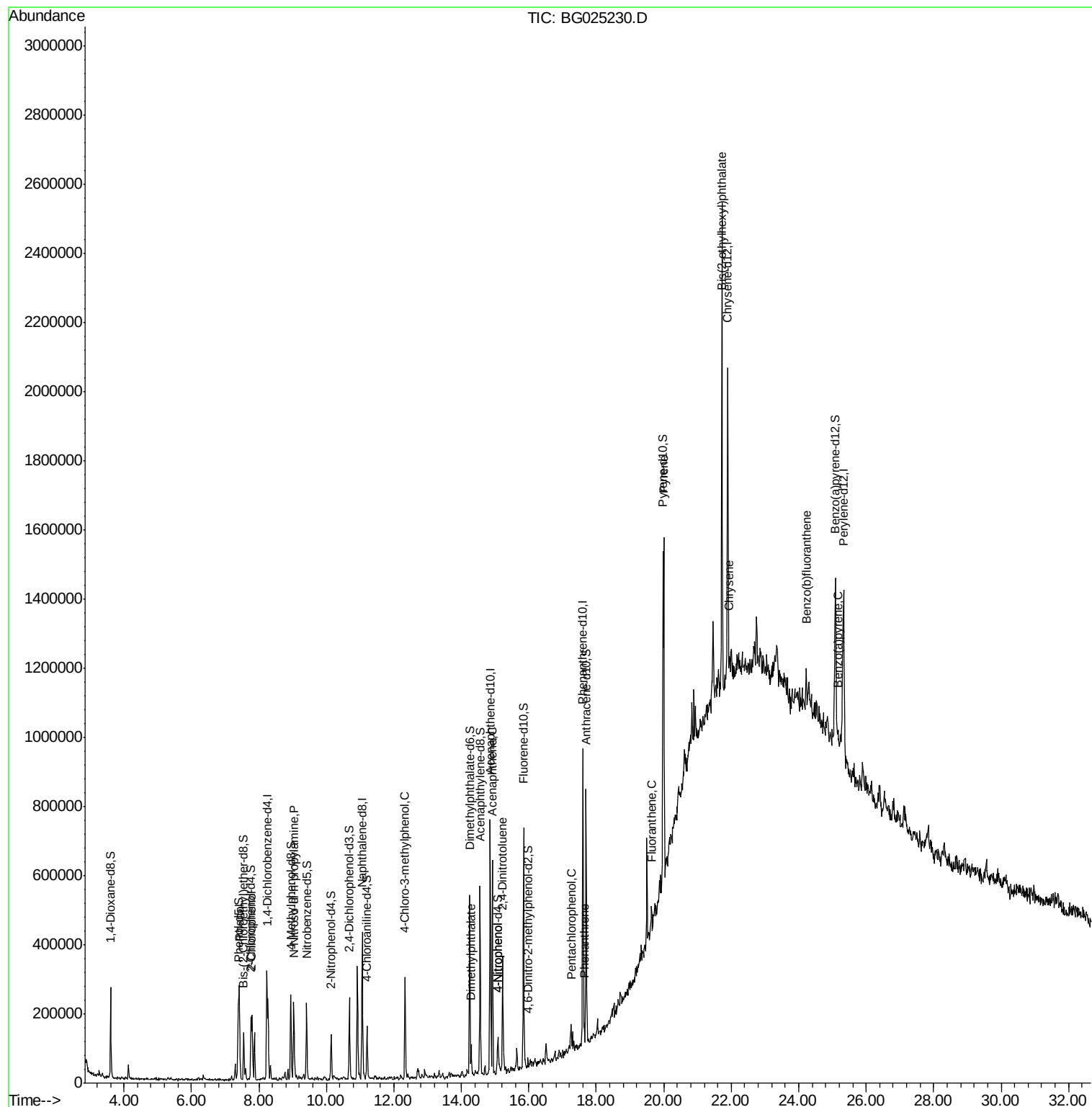
|                                |       |     |        |       |        | Ovalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 6) Phenol                      | 7.42  | 94  | 131223 | 18.50 | ng/ul  | 93     |
| 10) 2-Chlorophenol             | 7.80  | 128 | 68771  | 14.16 | ng/ul  | 98     |
| 15) N-Nitroso-di-n-propylamine | 9.03  | 70  | 84318  | 16.61 | ng/ul  | 91     |
| 33) 4-Chloro-3-methylphenol    | 12.33 | 107 | 107650 | 15.36 | ng/ul  | 97     |
| 44) Dimethylphthalate          | 14.29 | 163 | 49693  | 2.67  | ng/ul  | 96     |
| 49) Acenaphthene               | 14.92 | 153 | 251033 | 18.17 | ng/ul  | 98     |
| 52) 4-Nitrophenol              | 15.09 | 109 | 15969  | 4.08  | ng/ul# | 87     |
| 54) 2,4-Dinitrotoluene         | 15.22 | 165 | 96441  | 16.00 | ng/ul# | 87     |
| 68) Pentachlorophenol          | 17.25 | 266 | 15787  | 3.82  | ng/ul# | 85     |
| 69) Phenanthrene               | 17.64 | 178 | 38202  | 1.48  | ng/ul  | 97     |
| 74) Fluoranthene               | 19.64 | 202 | 49239  | 1.61  | ng/ul# | 97     |
| 77) Pyrene                     | 20.00 | 202 | 633024 | 20.37 | ng/ul# | 96     |
| 81) Bis(2-ethylhexyl)phthalate | 21.72 | 149 | 580169 | 34.64 | ng/ul# | 96     |
| 82) Chrysene                   | 21.94 | 228 | 57742  | 1.84  | ng/ul  | 95     |
| 85) Benzo(b)fluoranthene       | 24.22 | 252 | 72018  | 2.17  | ng/ul# | 76     |
| 88) Benzo(a)pyrene             | 25.16 | 252 | 39740  | 1.25  | ng/ul# | 56     |

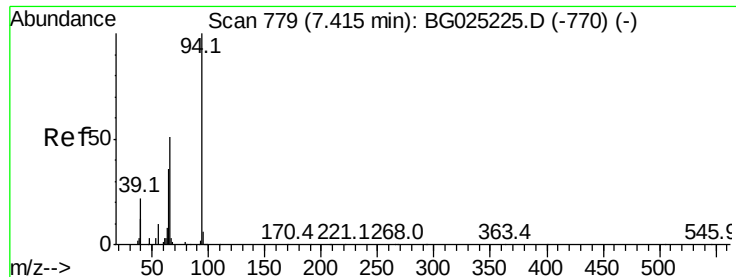
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 16 05:54:49 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 18.50 ng/ul

RT: 7.42 min Scan# 779

Delta R.T. 0.00 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

Instrument :

BNA\_G

ClientSampleId :

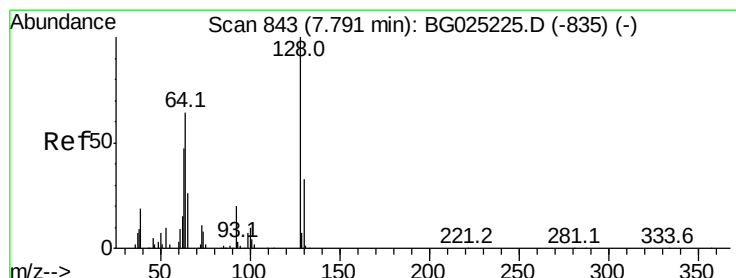
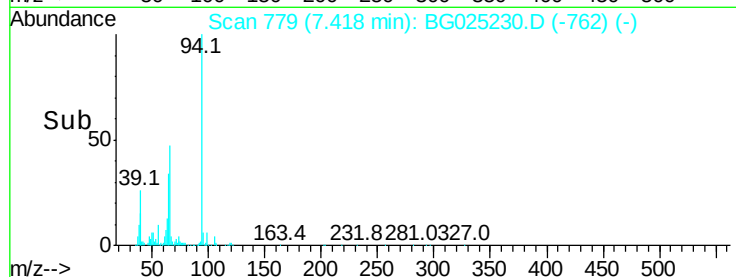
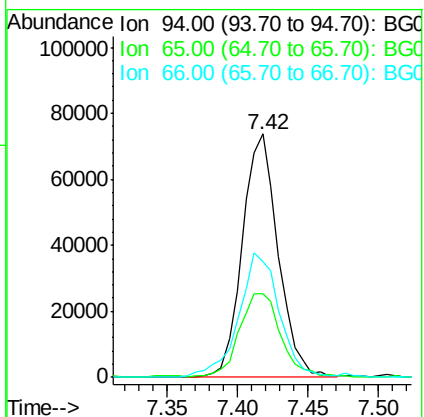
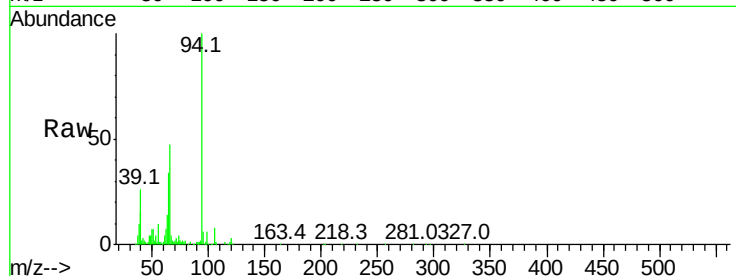
Tot Ion: 94 Resp: 131223

Ion Ratio Lower Upper

94 100

65 34.2 26.8 40.2

66 47.5 44.4 66.6



#10

2-Chlorophenol

Concen: 14.16 ng/ul

RT: 7.80 min Scan# 844

Delta R.T. 0.01 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

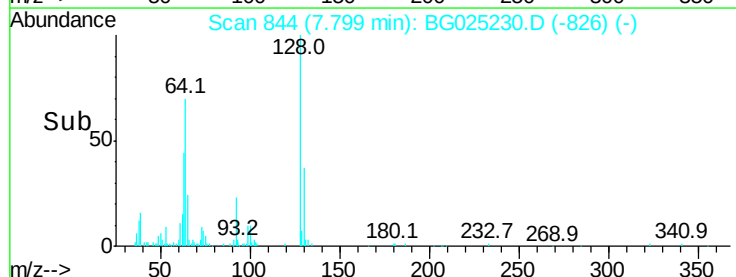
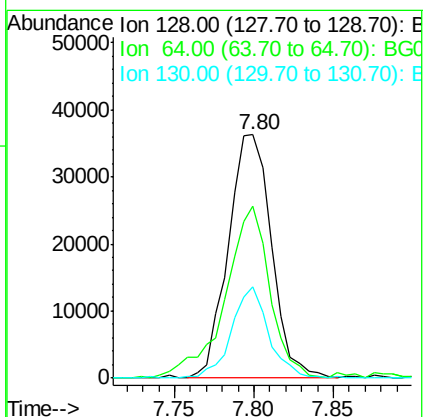
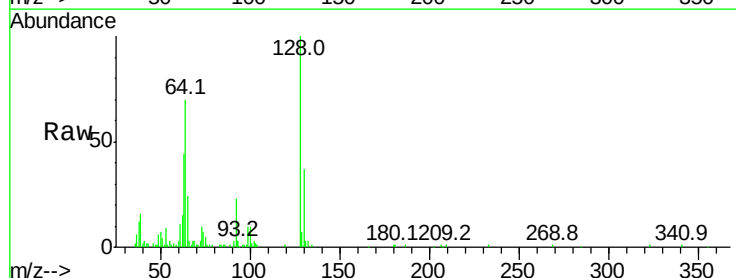
Tgt Ion: 128 Resp: 68771

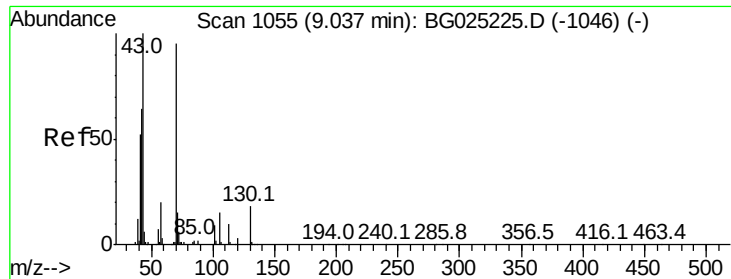
Ion Ratio Lower Upper

128 100

64 70.4 56.3 84.5

130 37.4 26.7 40.1

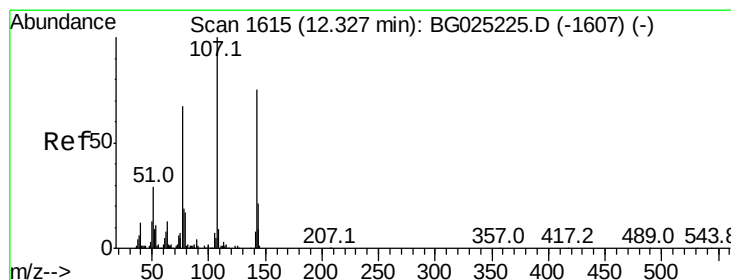
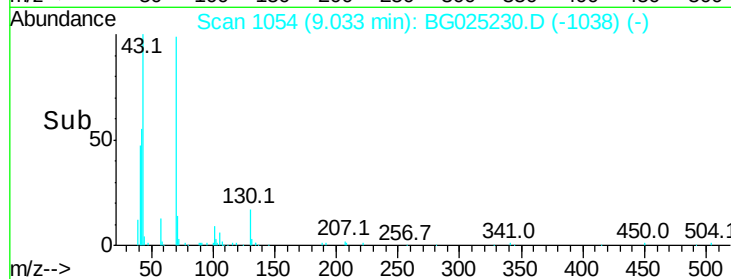
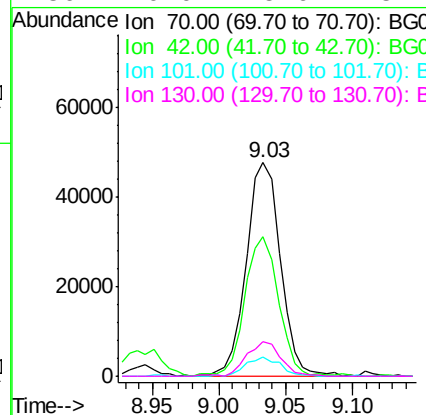
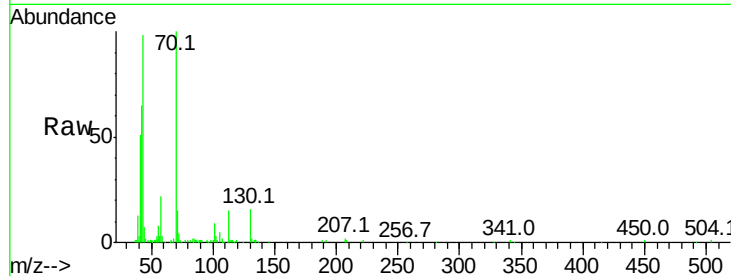




#15  
N-Nitroso-di-n-propylamine  
Concen: 16.61 ng/ul  
RT: 9.03 min Scan# 1054  
Delta R.T. -0.00 min  
Lab File: BG025230.D  
Acq: 16 Dec 2016 3:09

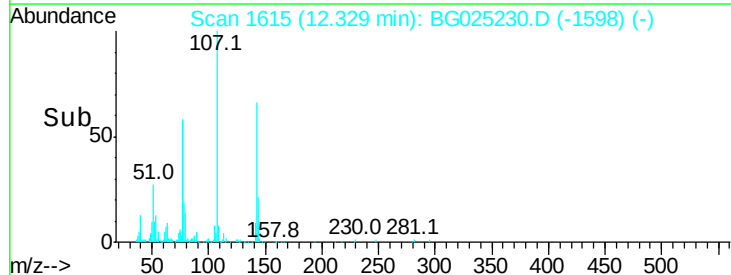
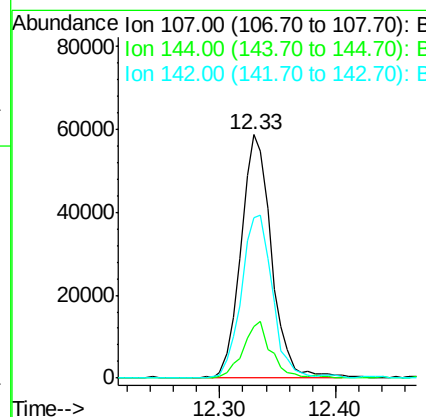
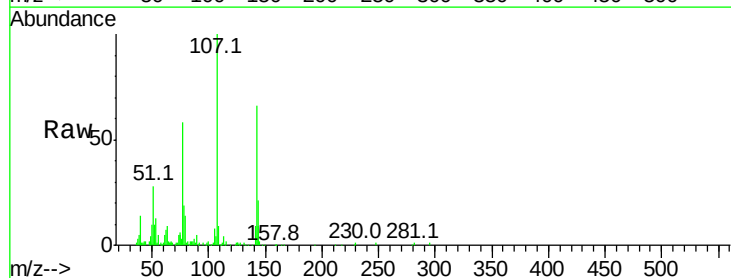
Instrument :  
BNA\_G  
ClientSampleId :

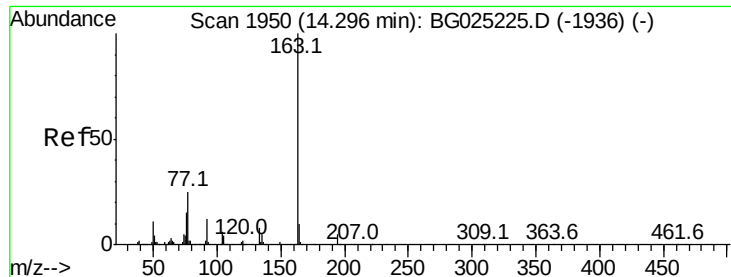
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 70    | Resp: | 84318 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 65.3  | 59.0  | 88.6  |
| 101      | 9.1   | 6.6   | 9.8   |
| 130      | 16.0  | 15.6  | 23.4  |



#33  
4-Chloro-3-methylphenol  
Concen: 15.36 ng/ul  
RT: 12.33 min Scan# 1615  
Delta R.T. 0.00 min  
Lab File: BG025230.D  
Acq: 16 Dec 2016 3:09

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 107   | Resp: | 107650 |
| Ion      | Ratio | Lower | Upper  |
| 107      | 100   |       |        |
| 144      | 21.5  | 18.2  | 27.4   |
| 142      | 65.9  | 55.0  | 82.4   |





#44

Dimethylphthalate

Concen: 2.67 ng/ul

RT: 14.29 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

Instrument :

BNA\_G

ClientSampleId :

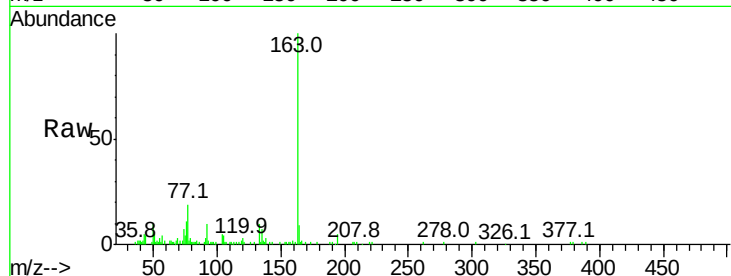
Tot Ion:163 Resp: 49693

Ion Ratio Lower Upper

163 100

194 4.7 3.4 5.0

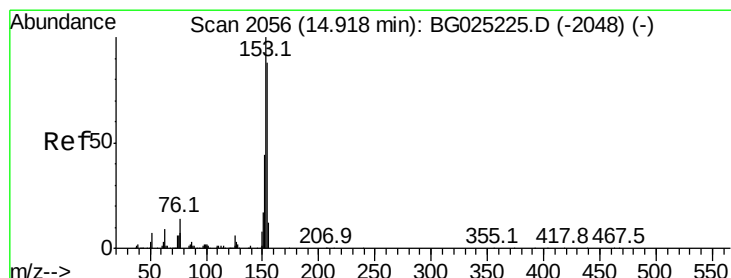
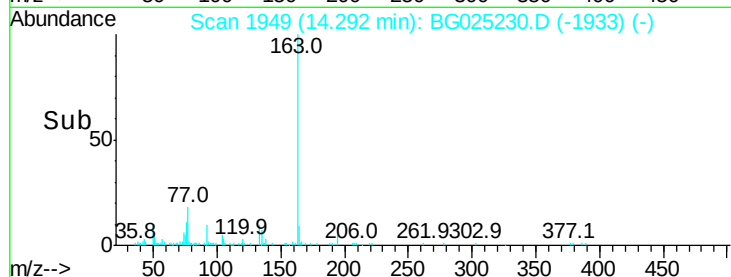
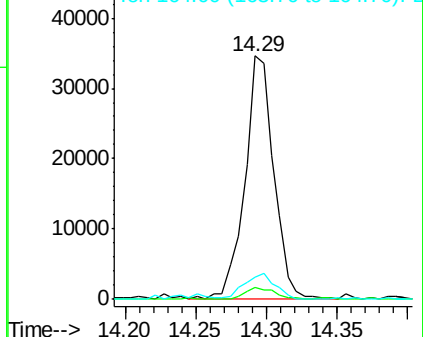
164 9.3 9.0 13.4



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



#49

Acenaphthene

Concen: 18.17 ng/ul

RT: 14.92 min Scan# 2056

Delta R.T. 0.00 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

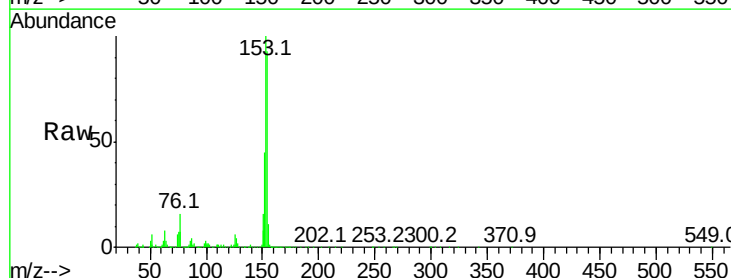
Tgt Ion:153 Resp: 251033

Ion Ratio Lower Upper

153 100

152 45.2 36.5 54.7

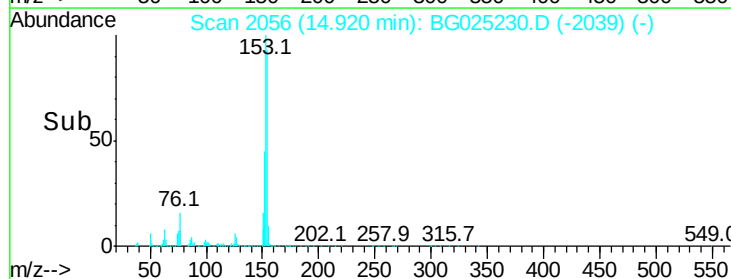
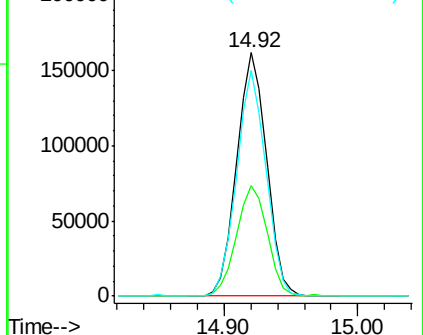
154 92.8 72.3 108.5

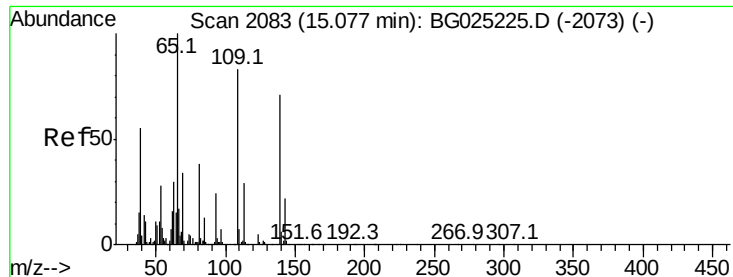


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#52

4-Nitrophenol

Concen: 4.08 ng/ul

RT: 15.09 min Scan# 2084

Delta R.T. 0.01 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

Instrument :

BNA\_G

ClientSampled :

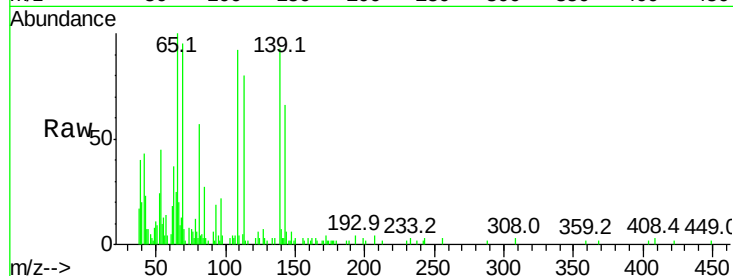
Tot Ion:109 Resp: 15969

Ion Ratio Lower Upper

109 100

139 101.1 62.6 93.8#

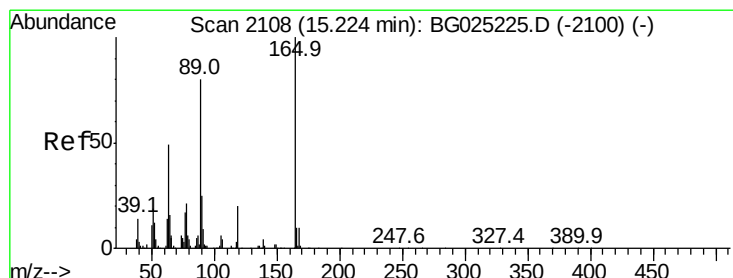
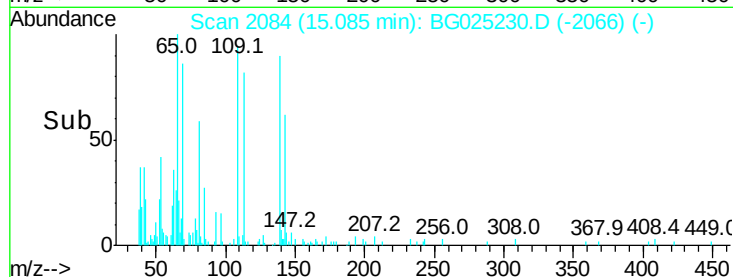
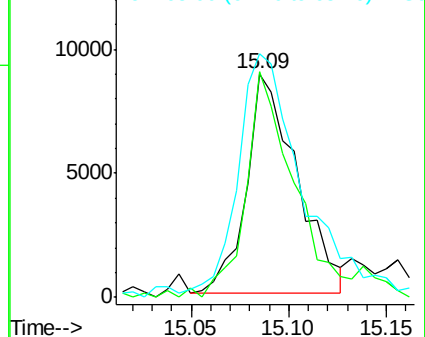
65 109.0 90.4 135.6



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



#54

2,4-Dinitrotoluene

Concen: 16.00 ng/ul

RT: 15.22 min Scan# 2107

Delta R.T. -0.00 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

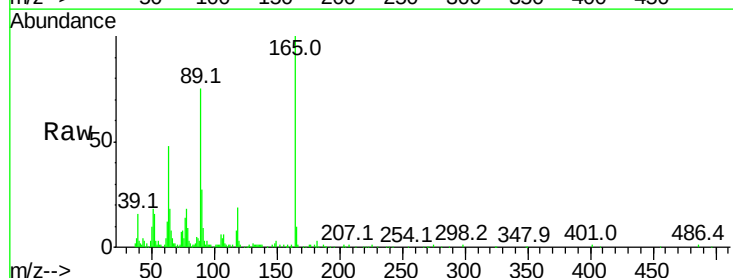
Tgt Ion:165 Resp: 96441

Ion Ratio Lower Upper

165 100

63 48.3 46.8 70.2

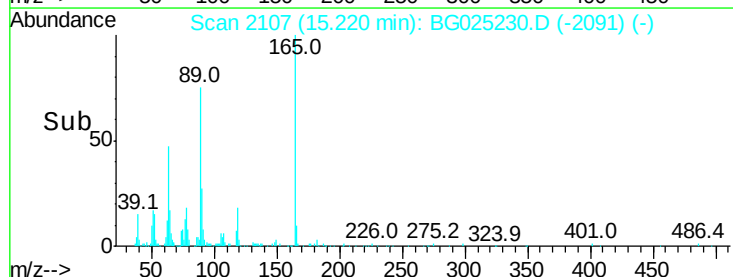
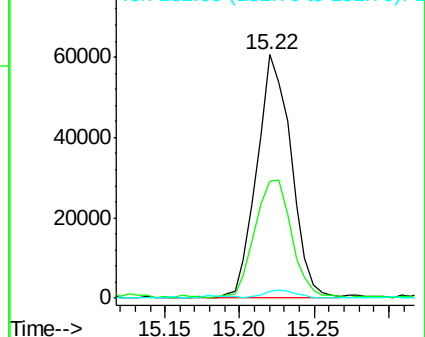
182 2.9 1.8 2.6#

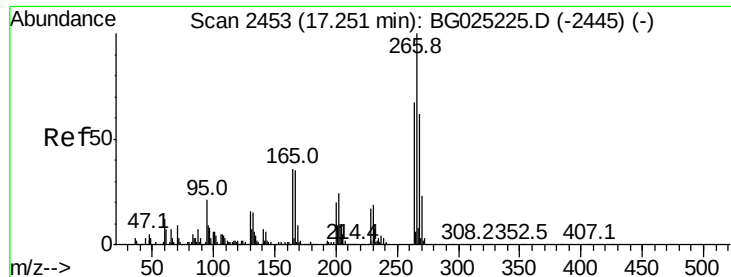


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 182.00 (181.70 to 182.70): E

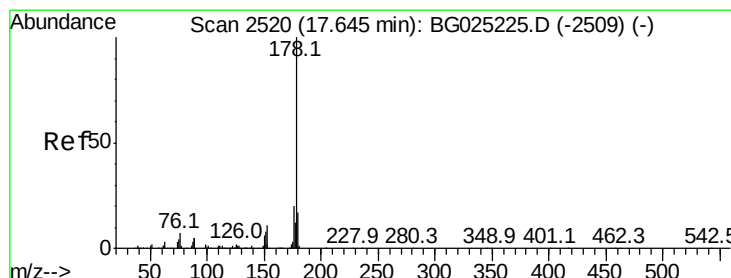
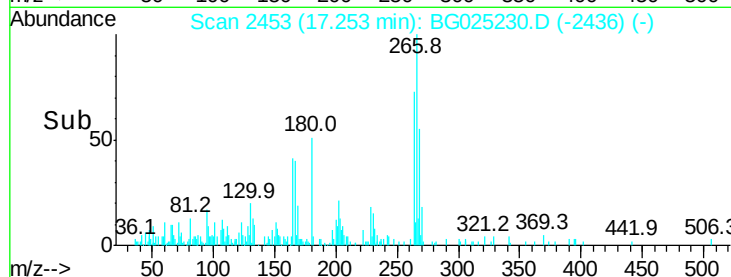
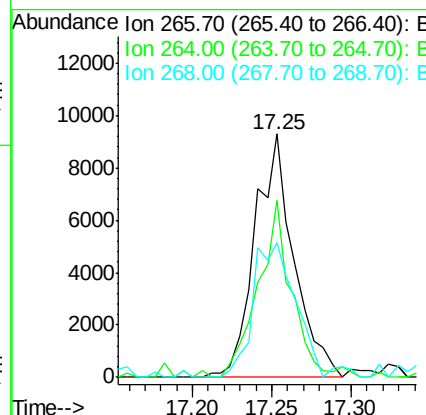
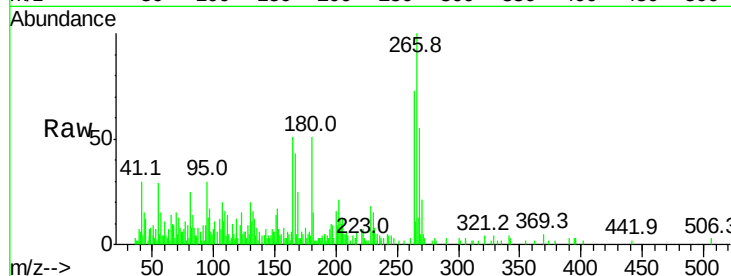




#68  
 Pentachlorophenol  
 Concen: 3.82 ng/ul  
 RT: 17.25 min Scan# 2453  
 Delta R.T. 0.00 min  
 Lab File: BG025230.D  
 Acq: 16 Dec 2016 3:09

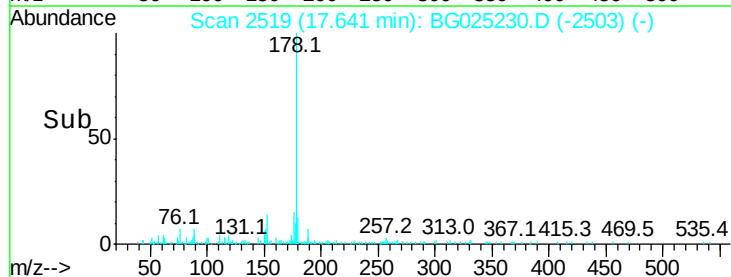
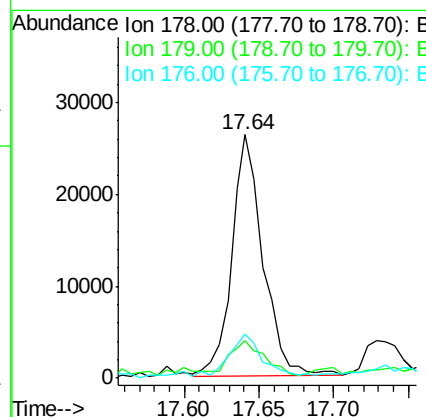
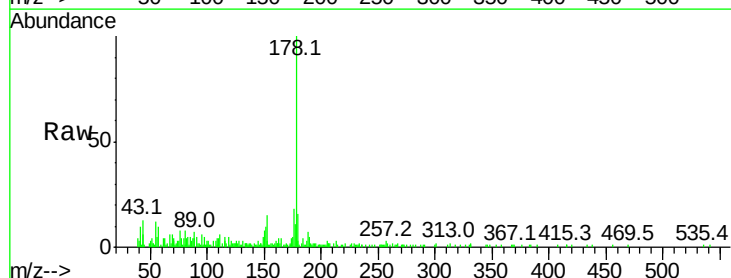
Instrument :  
 BNA\_G  
 ClientSampleId :

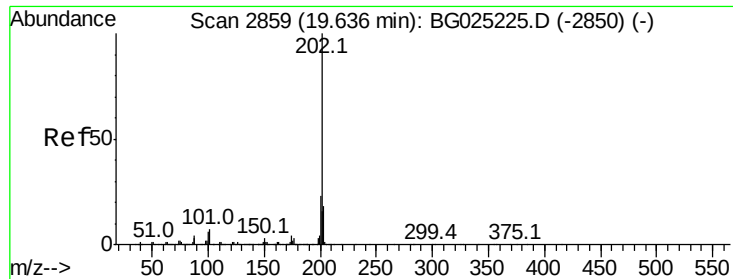
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 72.7  | 47.1  | 70.7# |
| 268     | 60.4  | 56.2  | 84.4  |



#69  
 Phenanthrene  
 Concen: 1.48 ng/ul  
 RT: 17.64 min Scan# 2519  
 Delta R.T. -0.00 min  
 Lab File: BG025230.D  
 Acq: 16 Dec 2016 3:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.6  | 12.4  | 18.6  |
| 176     | 17.9  | 16.5  | 24.7  |





#74

Fluoranthene

Concen: 1.61 ng/ul

RT: 19.64 min Scan# 2859

Delta R.T. 0.00 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

Instrument :

BNA\_G

ClientSampleId :

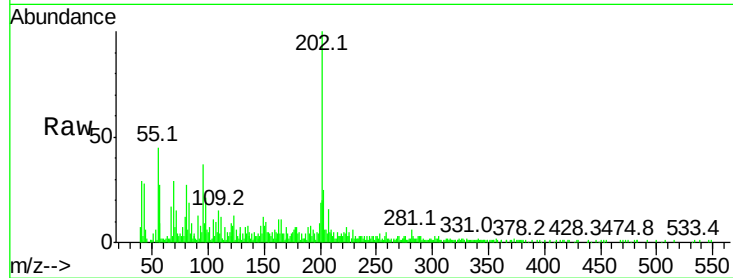
Tot Ion:202 Resp: 49239

Ion Ratio Lower Upper

202 100

101 7.1 6.2 9.2

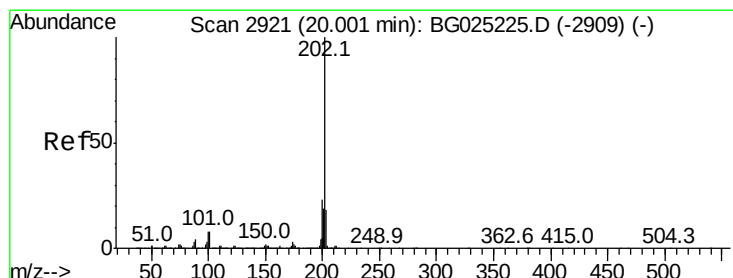
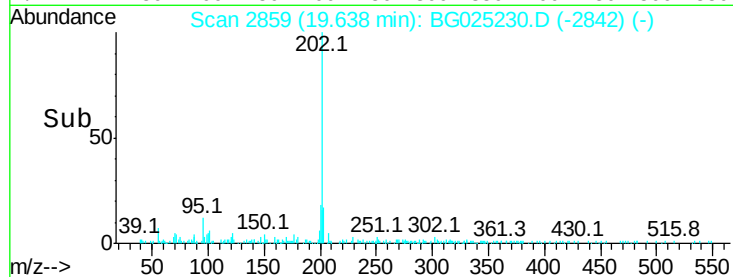
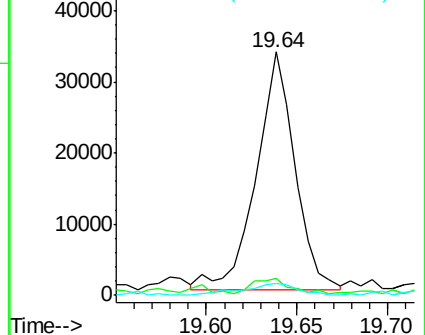
100 4.8 5.2 7.8#



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): B



#77

Pyrene

Concen: 20.37 ng/ul

RT: 20.00 min Scan# 2921

Delta R.T. 0.00 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

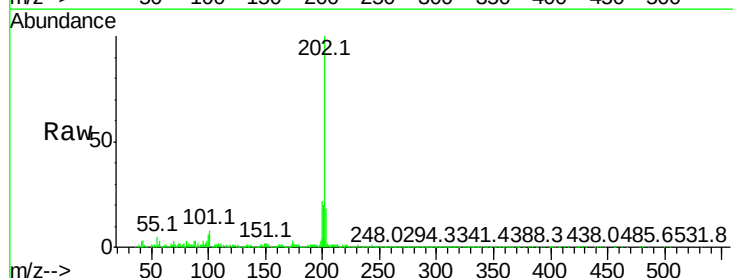
Tgt Ion:202 Resp: 633024

Ion Ratio Lower Upper

202 100

101 8.1 6.9 10.3

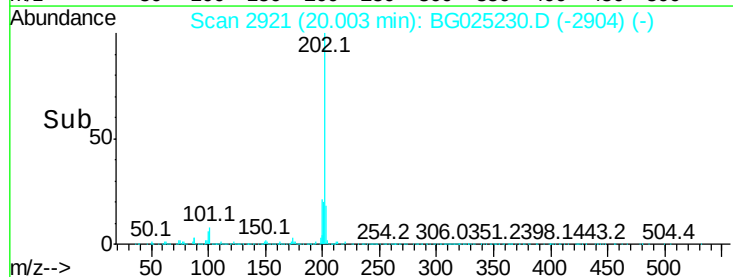
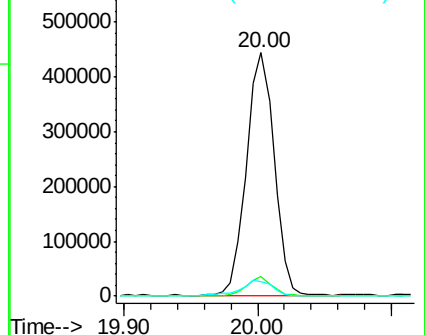
100 5.8 6.6 10.0#



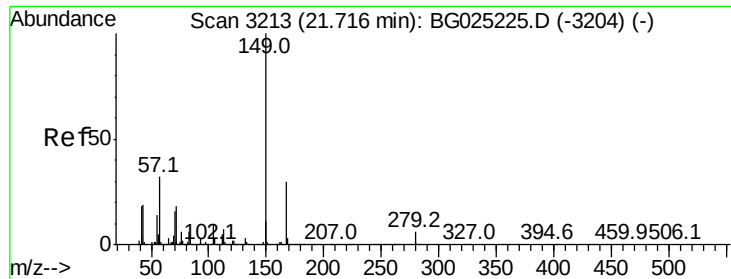
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B







#81

Bis(2-ethylhexyl)phthalate

Concen: 34.64 ng/ul

RT: 21.72 min Scan# 3214

Delta R.T. 0.01 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

Instrument :

BNA\_G

ClientSampled :

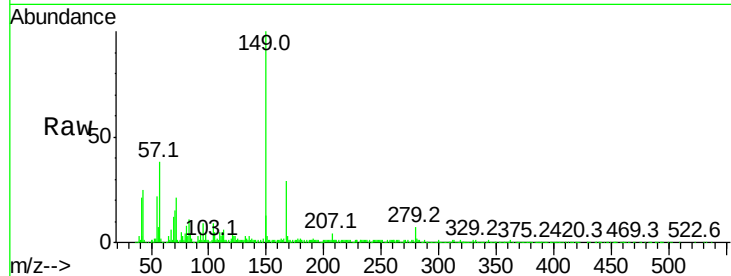
Tot Ion:149 Resp: 580169

Ion Ratio Lower Upper

149 100

167 29.4 21.8 32.8

279 7.0 4.5 6.7#

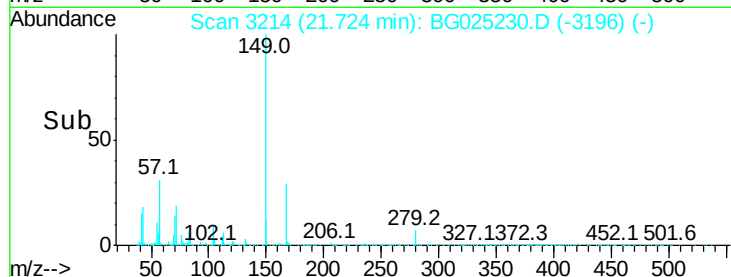


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

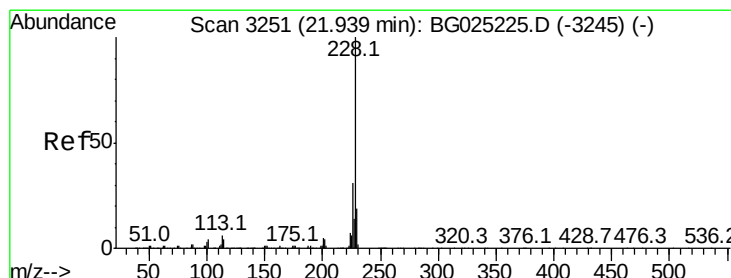
Ion 279.00 (278.70 to 279.70): E

Time-->



Abundance

Time-->



#82

Chrysene

Concen: 1.84 ng/ul

RT: 21.94 min Scan# 3251

Delta R.T. 0.00 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

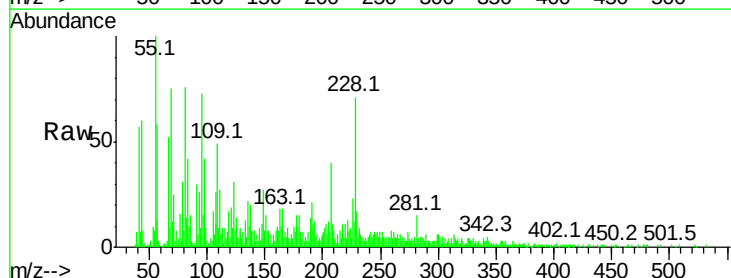
Tgt Ion:228 Resp: 57742

Ion Ratio Lower Upper

228 100

226 32.1 24.0 36.0

229 24.1 16.9 25.3

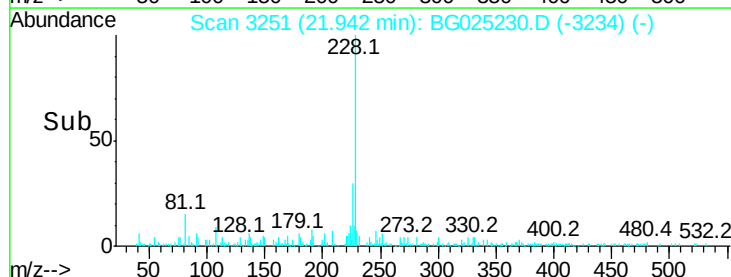


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

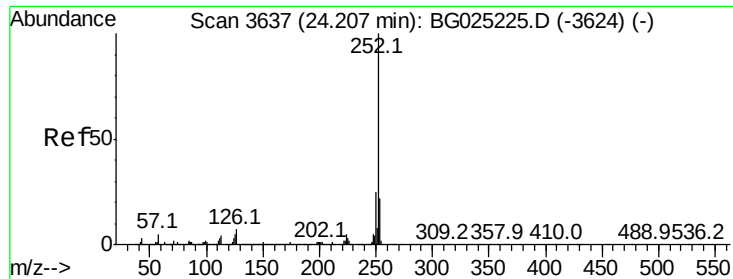
Ion 229.00 (228.70 to 229.70): E

Time-->



Abundance

Time-->



#85

Benzo(b)fluoranthene

Concen: 2.17 ng/ul

RT: 24.22 min Scan# 3639

Delta R.T. 0.01 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

Instrument :

BNA\_G

ClientSampleId :

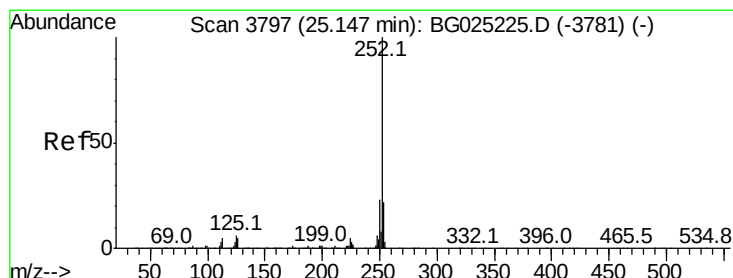
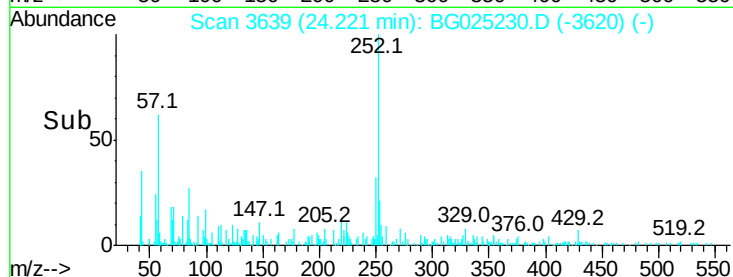
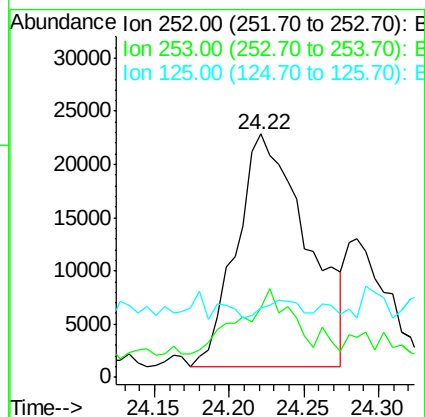
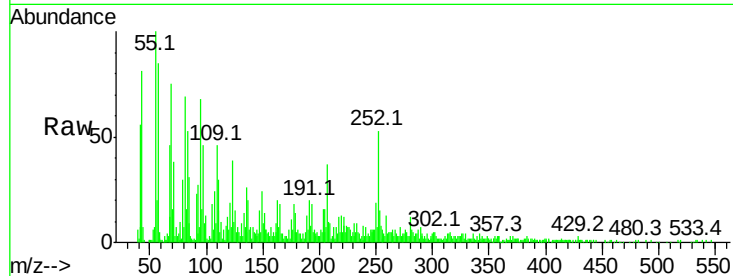
Tot Ion:252 Resp: 72018

Ion Ratio Lower Upper

252 100

253 28.8 17.7 26.5#

125 28.4 4.0 6.0#



#88

Benzo(a)pyrene

Concen: 1.25 ng/ul

RT: 25.16 min Scan# 3798

Delta R.T. 0.01 min

Lab File: BG025230.D

Acq: 16 Dec 2016 3:09

Tgt Ion:252 Resp: 39740

Ion Ratio Lower Upper

252 100

253 39.5 17.8 26.6#

125 30.2 5.4 8.0#

