

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG110316\  
 Data File : BG024647.D  
 Acq On : 3 Nov 2016 11:16  
 Operator : UM/SJ  
 Sample : H5491-20  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 GW-78-7.7-15.0

Quant Time: Nov 03 14:21:53 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG102516.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 26 11:14:13 2016  
 Response via : Initial Calibration

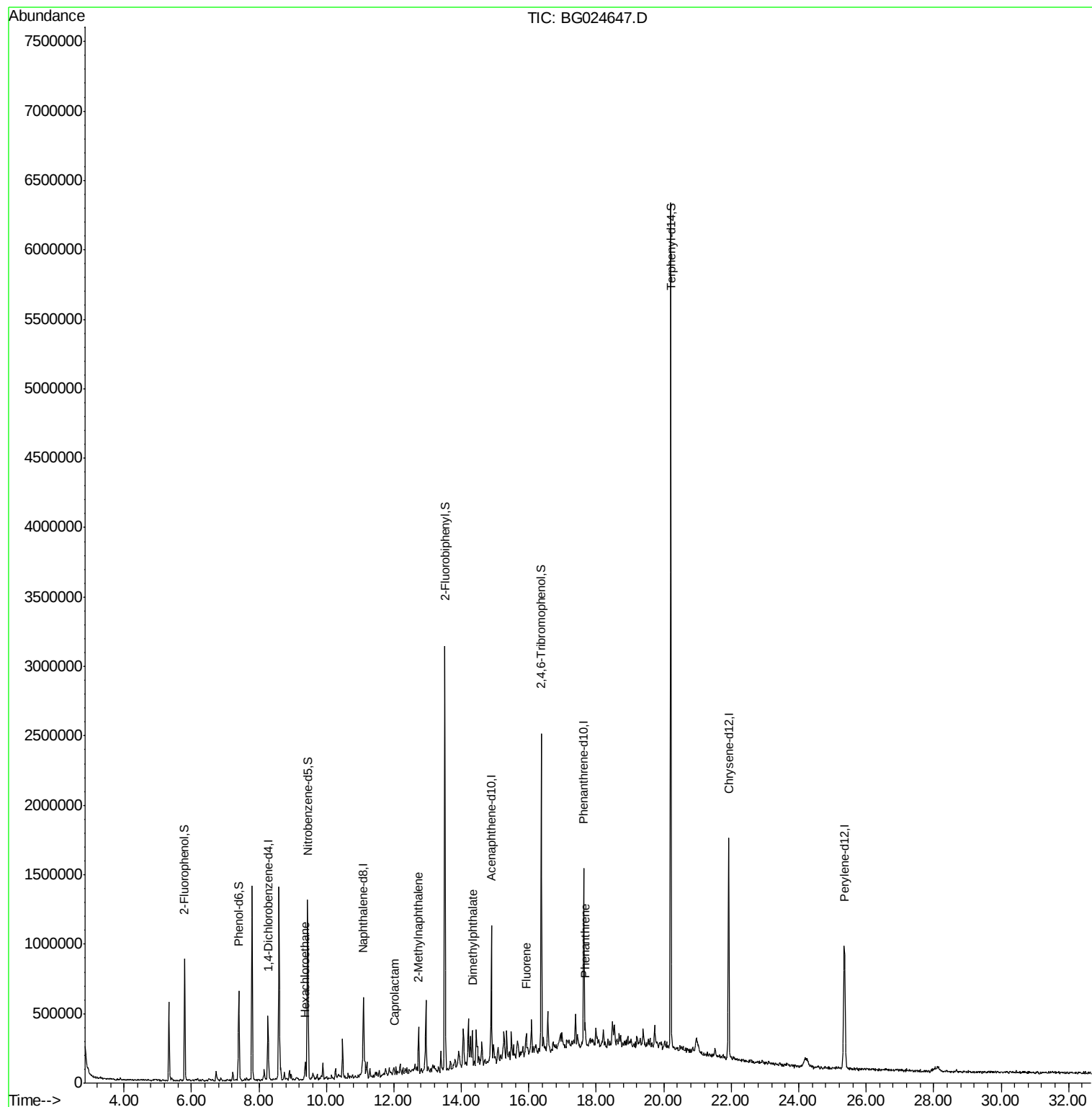
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.27  | 152  | 119141   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.10 | 136  | 464423   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.89 | 164  | 346864   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.63 | 188  | 794758   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.92 | 240  | 1109900  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 25.35 | 264  | 1159230  | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.80  | 112  | 359932   | 49.51 | ng    | 0.00     |
| 7) Phenol-d6                | 7.40  | 99   | 342852   | 34.38 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.44  | 82   | 762290   | 74.73 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.37 | 330  | 468651   | 90.44 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.51 | 172  | 1574204  | 75.43 | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.21 | 244  | 2673109  | 71.97 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 18) Hexachloroethane        | 9.38  | 117  | 28217    | 8.12  | ng    | # 38     |
| 35) Caprolactam             | 12.02 | 113  | 8612     | 3.04  | ng    | # 63     |
| 37) 2-Methylnaphthalene     | 12.73 | 142  | 159307   | 9.42  | ng    | 96       |
| 49) Dimethylphthalate       | 14.32 | 163  | 68897    | 2.80  | ng    | # 96     |
| 57) Fluorene                | 15.93 | 166  | 54017    | 2.25  | ng    | # 83     |
| 70) Phenanthrene            | 17.67 | 178  | 96018    | 2.37  | ng    | # 94     |

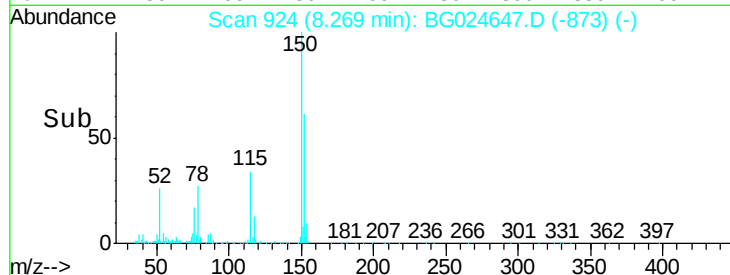
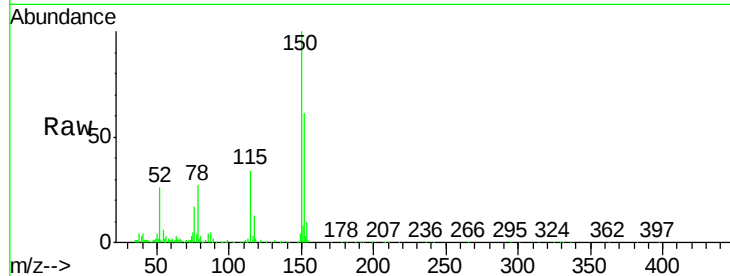
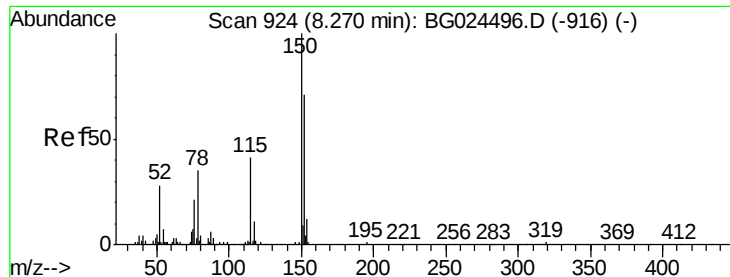
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 26 11:14:13 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.27 min Scan# 924

Delta R.T. -0.00 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

Instrument :

BNA\_G

ClientSampleId :

GW-78-7.7-15.0

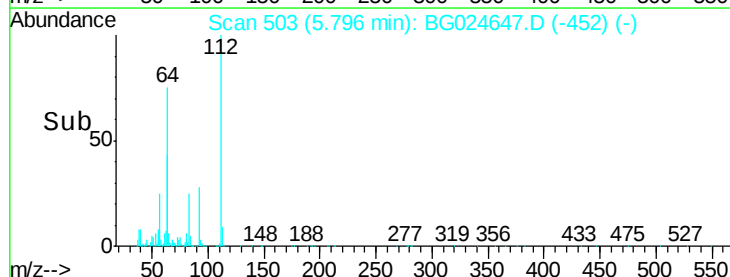
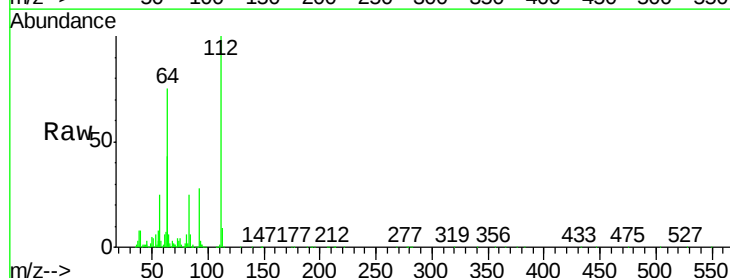
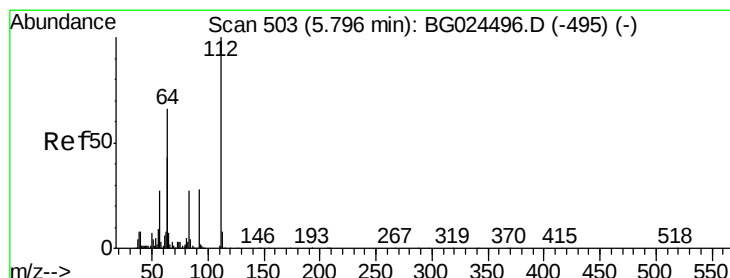
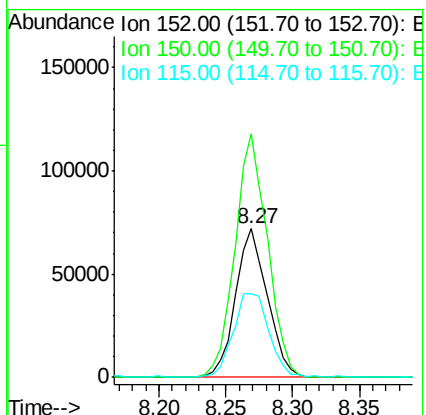
Tgt Ion:152 Resp: 119141

Ion Ratio Lower Upper

152 100

150 163.7 114.0 171.0

115 56.2 48.1 72.1



#5

2-Fluorophenol

Concen: 49.51 ng

RT: 5.80 min Scan# 503

Delta R.T. -0.00 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

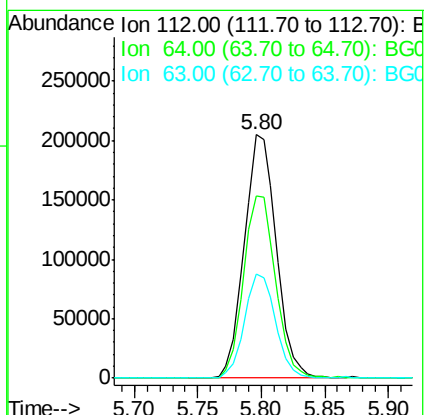
Tgt Ion:112 Resp: 359932

Ion Ratio Lower Upper

112 100

64 74.6 61.8 92.6

63 42.9 37.2 55.8





#7

Phenol-d6

Concen: 34.38 ng

RT: 7.40 min Scan# 776

Delta R.T. -0.00 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

Instrument :

BNA\_G

ClientSampleId :

GW-78-7.7-15.0

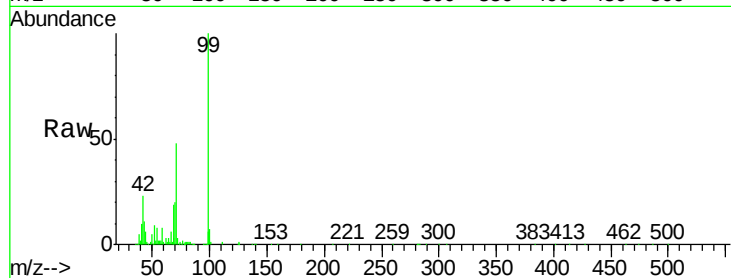
Tgt Ion: 99 Resp: 342852

Ion Ratio Lower Upper

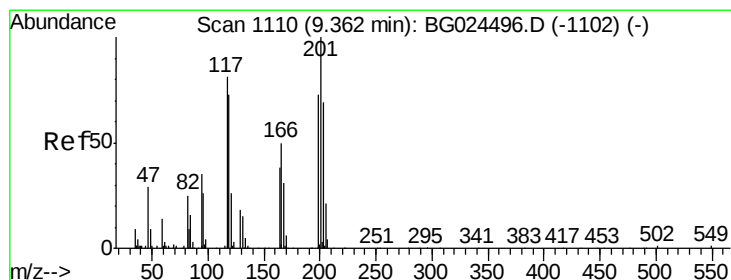
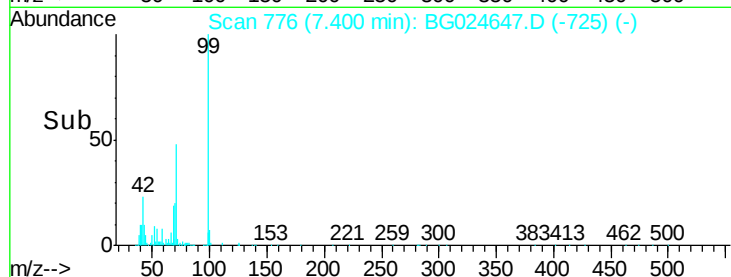
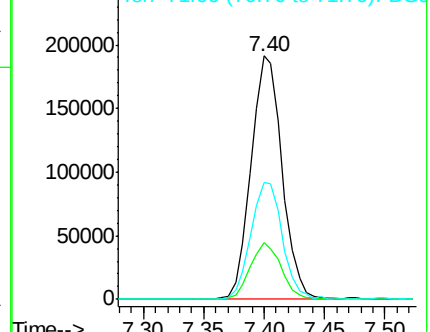
99 100

42 23.2 20.5 30.7

71 48.0 37.6 56.4



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



#18

Hexachloroethane

Concen: 8.12 ng

RT: 9.38 min Scan# 1113

Delta R.T. 0.02 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

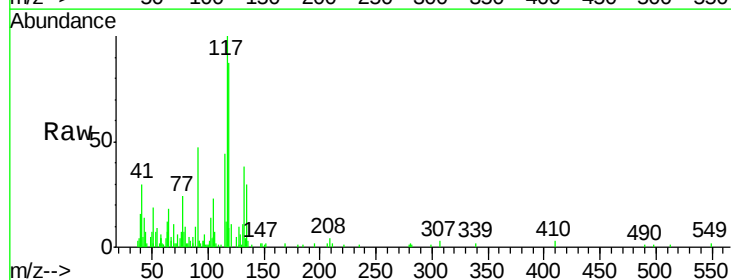
Tgt Ion: 117 Resp: 28217

Ion Ratio Lower Upper

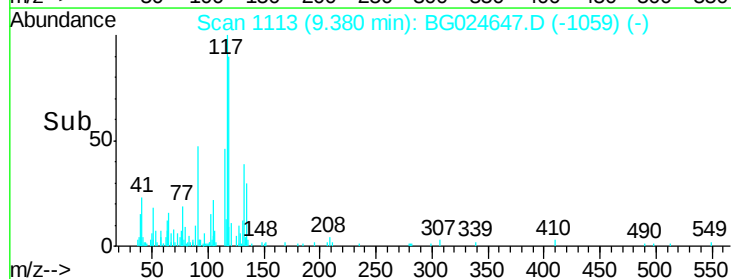
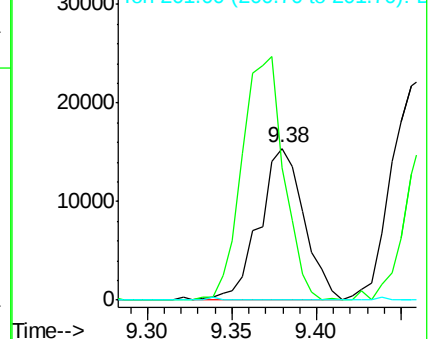
117 100

119 87.3 69.8 104.6

201 0.0 95.4 143.0#



Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.10 min Scan# 1405

Delta R.T. -0.01 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

Instrument :

BNA\_G

ClientSampleId :

GW-78-7.7-15.0

Tgt Ion: 136 Resp: 464423

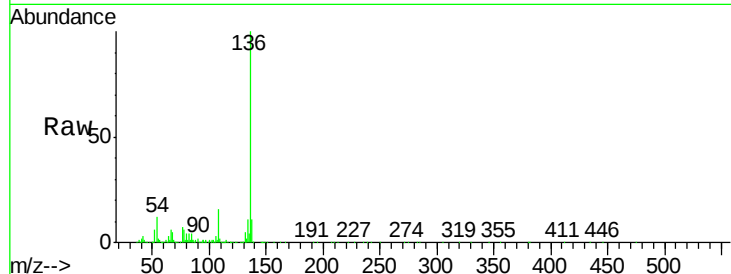
Ion Ratio Lower Upper

136 100

137 10.7 8.9 13.3

54 12.3 9.3 13.9

68 5.5 5.1 7.7

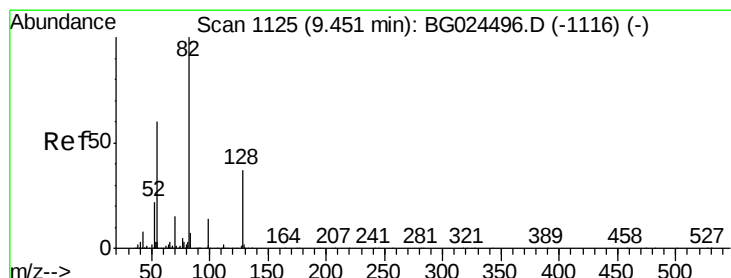
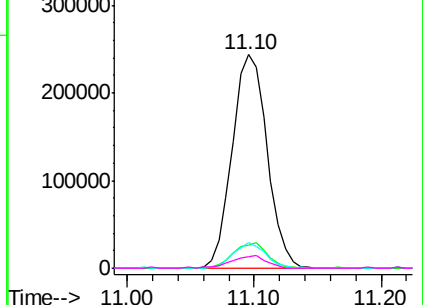
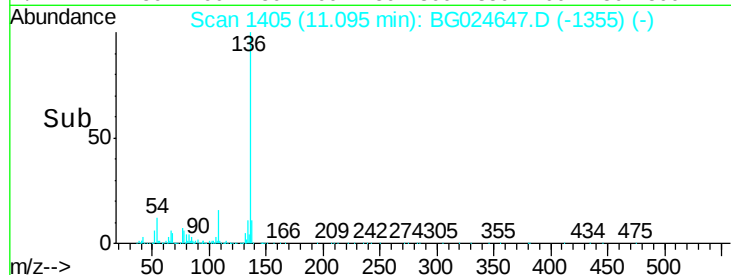


Abundance Ion 136.00 (135.70 to 136.70): B

Ion 137.00 (136.70 to 137.70): B

Ion 54.00 (53.70 to 54.70): B

Ion 68.00 (67.70 to 68.70): B



#23

Nitrobenzene-d5

Concen: 74.73 ng

RT: 9.44 min Scan# 1124

Delta R.T. -0.01 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

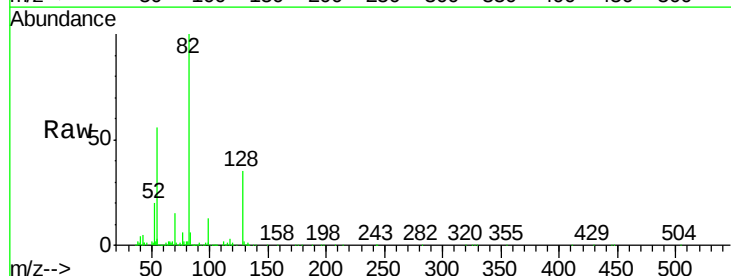
Tgt Ion: 82 Resp: 762290

Ion Ratio Lower Upper

82 100

128 34.5 26.4 39.6

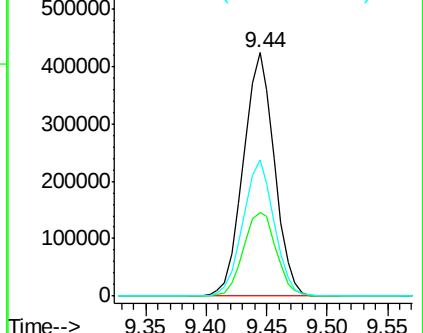
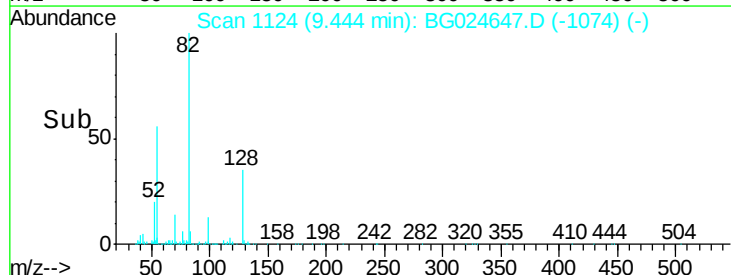
54 56.1 49.4 74.2

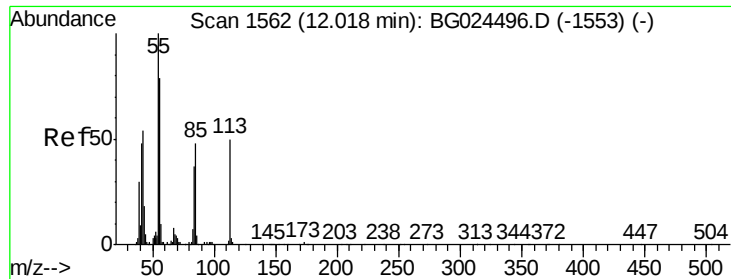


Abundance Ion 82.00 (81.70 to 82.70): B

Ion 128.00 (127.70 to 128.70): B

Ion 54.00 (53.70 to 54.70): B

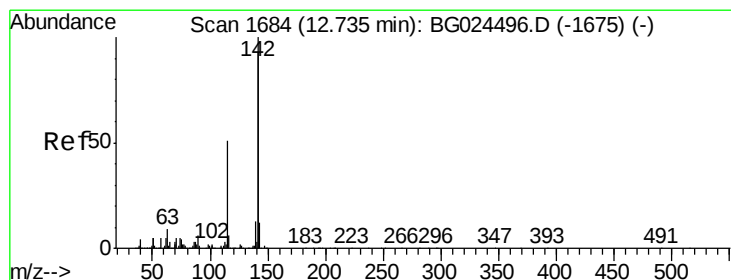
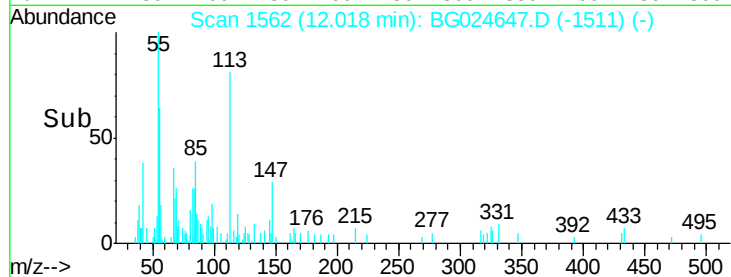
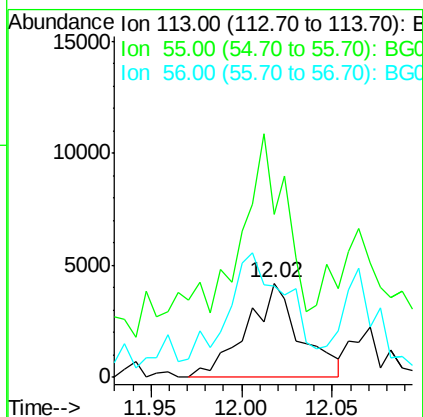
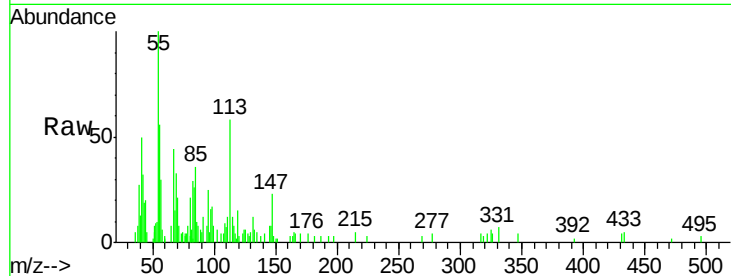




#35  
 Caprolactam  
 Concen: 3.04 ng  
 RT: 12.02 min Scan# 1562  
 Delta R.T. -0.00 min  
 Lab File: BG024647.D  
 Acq: 3 Nov 2016 11:16

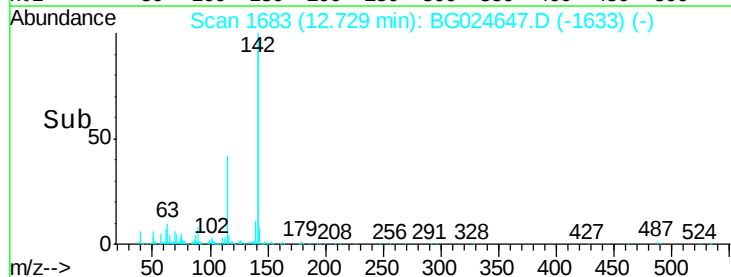
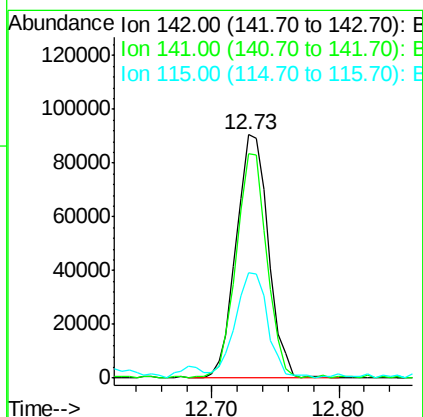
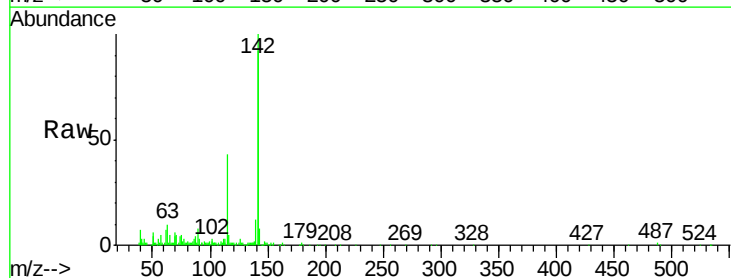
Instrument :  
 BNA\_G  
 ClientSampleId :  
 GW-78-7.7-15.0

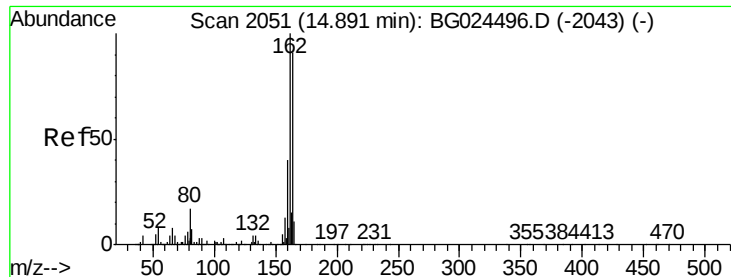
Tgt Ion: 113 Resp: 8612  
 Ion Ratio Lower Upper  
 113 100  
 55 172.3 198.6 238.6#  
 56 96.3 140.4 180.4#



#37  
 2-Methylnaphthalene  
 Concen: 9.42 ng  
 RT: 12.73 min Scan# 1683  
 Delta R.T. -0.01 min  
 Lab File: BG024647.D  
 Acq: 3 Nov 2016 11:16

Tgt Ion: 142 Resp: 159307  
 Ion Ratio Lower Upper  
 142 100  
 141 92.3 70.4 105.6  
 115 43.4 35.5 53.3





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.89 min Scan# 2050

Delta R.T. -0.01 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

Instrument :

BNA\_G

ClientSampleId :

GW-78-7.7-15.0

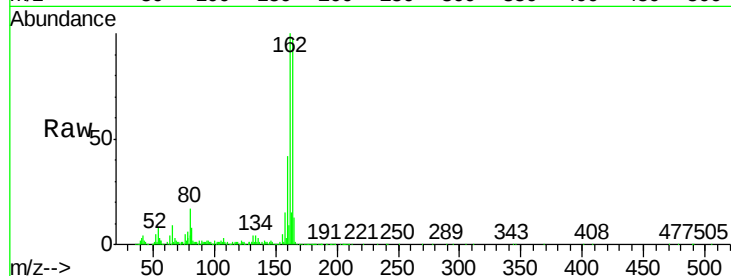
Tgt Ion:164 Resp: 346864

Ion Ratio Lower Upper

164 100

162 103.3 85.1 127.7

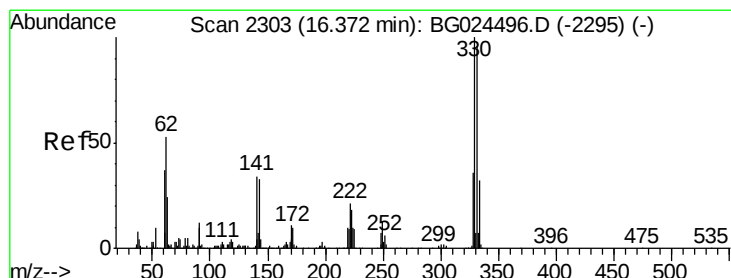
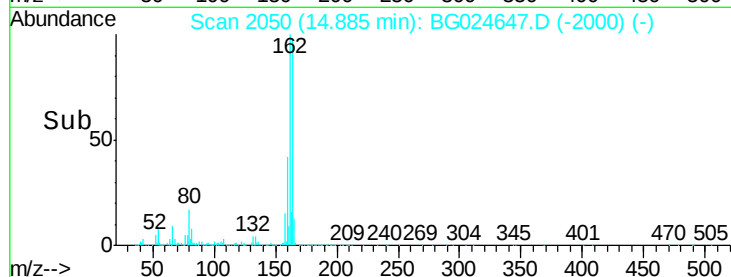
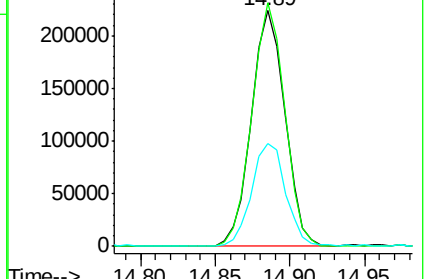
160 43.6 34.7 52.1



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 90.44 ng

RT: 16.37 min Scan# 2302

Delta R.T. -0.01 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

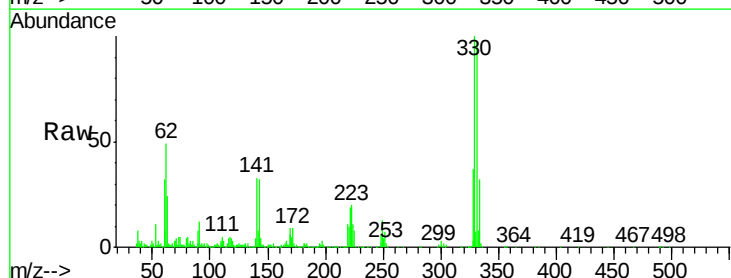
Tgt Ion:330 Resp: 468651

Ion Ratio Lower Upper

330 100

332 97.1 77.3 115.9

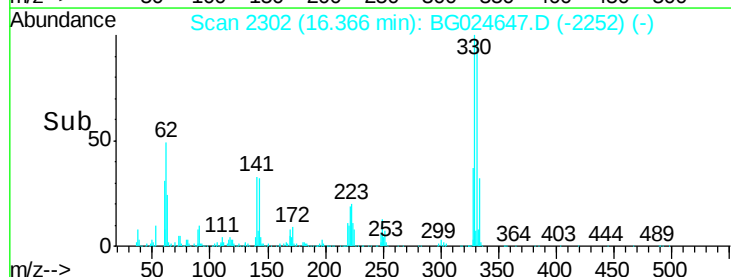
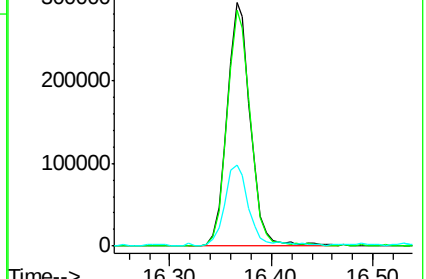
141 32.3 32.1 48.1

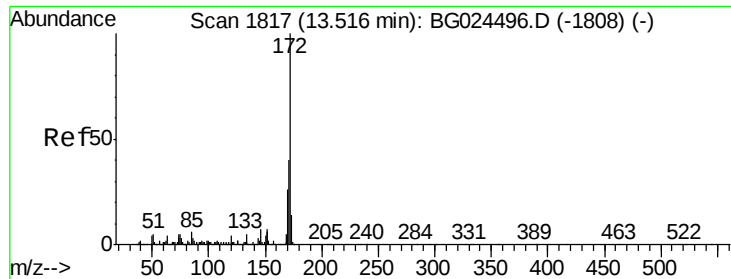


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

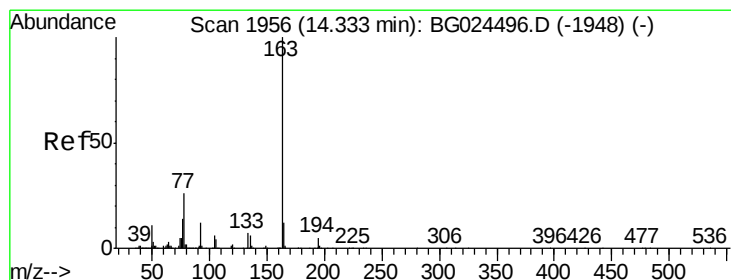
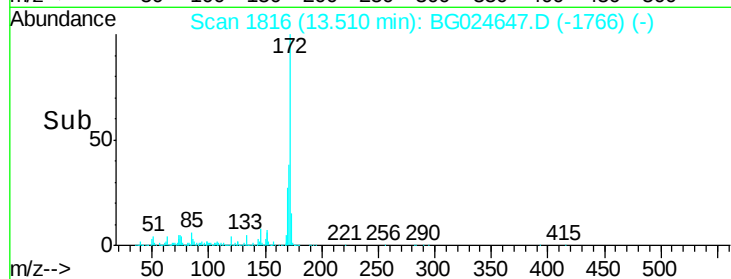
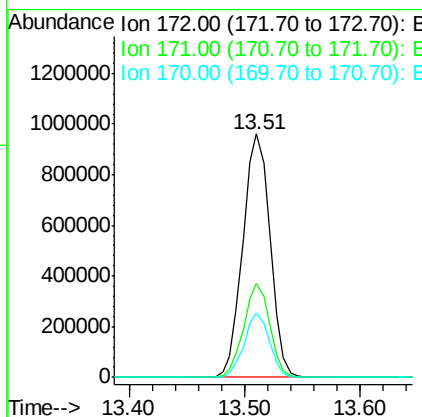
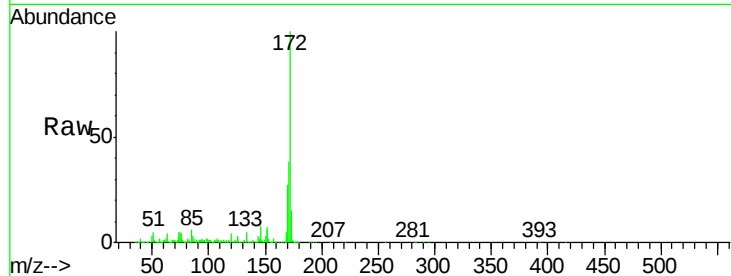




#44  
2-Fluorobiphenyl  
Concen: 75.43 ng  
RT: 13.51 min Scan# 1816  
Delta R.T. -0.01 min  
Lab File: BG024647.D  
Acq: 3 Nov 2016 11:16

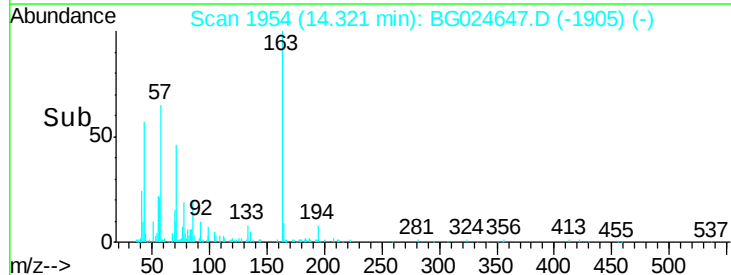
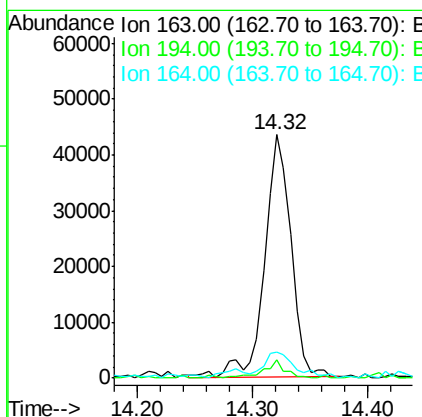
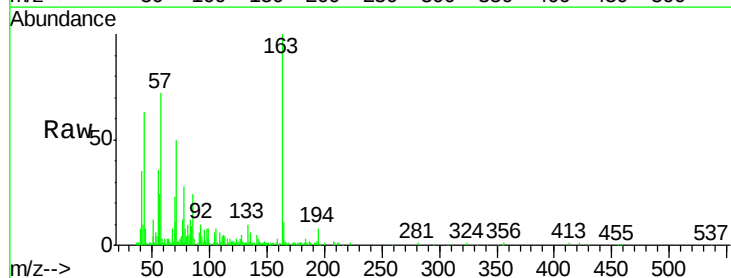
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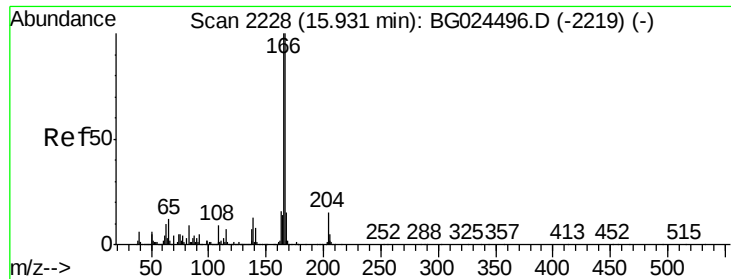
Tgt Ion:172 Resp: 1574204  
Ion Ratio Lower Upper  
172 100  
171 38.5 32.2 48.2  
170 26.7 21.8 32.6



#49  
Dimethylphthalate  
Concen: 2.80 ng  
RT: 14.32 min Scan# 1954  
Delta R.T. -0.01 min  
Lab File: BG024647.D  
Acq: 3 Nov 2016 11:16

Tgt Ion:163 Resp: 68897  
Ion Ratio Lower Upper  
163 100  
194 7.6 3.8 5.6#  
164 10.7 9.3 13.9





#57

Fluorene

Concen: 2.25 ng

RT: 15.93 min Scan# 2228

Delta R.T. -0.00 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

Instrument :

BNA\_G

ClientSampleId :

GW-78-7.7-15.0

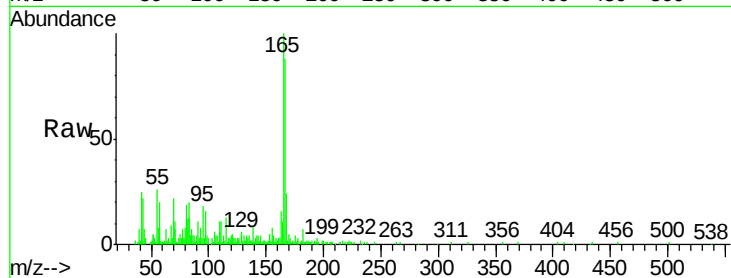
Tgt Ion:166 Resp: 54017

Ion Ratio Lower Upper

166 100

165 113.2 78.6 117.8

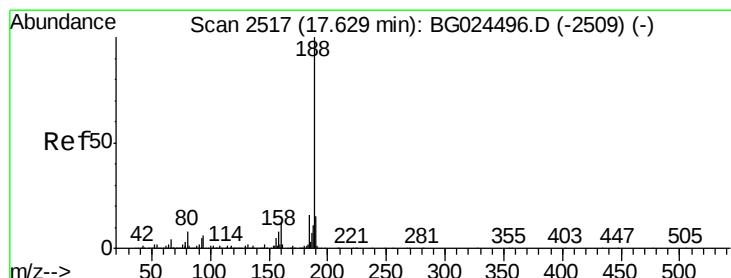
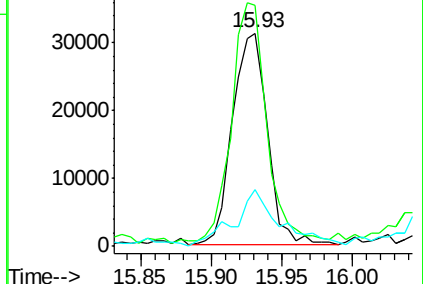
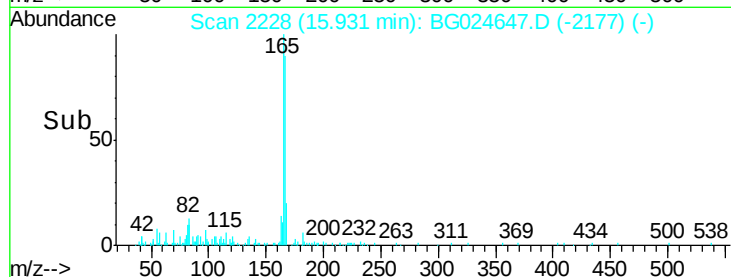
167 26.7 11.6 17.4#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.63 min Scan# 2517

Delta R.T. -0.00 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

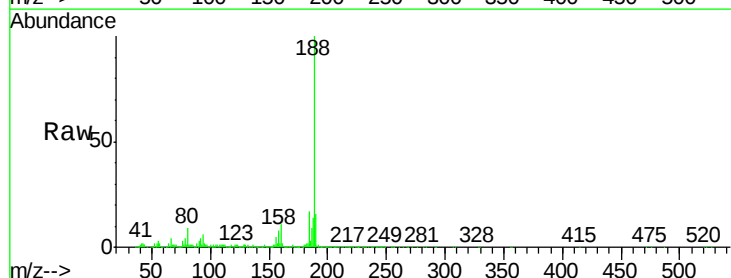
Tgt Ion:188 Resp: 794758

Ion Ratio Lower Upper

188 100

94 6.5 5.8 8.8

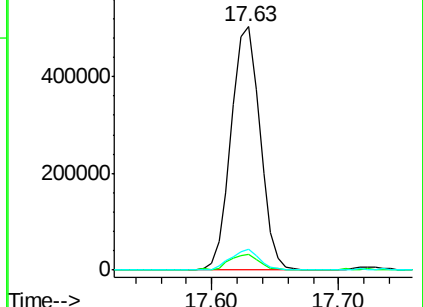
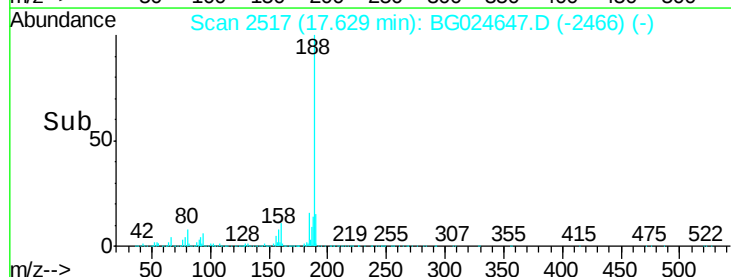
80 8.6 7.5 11.3

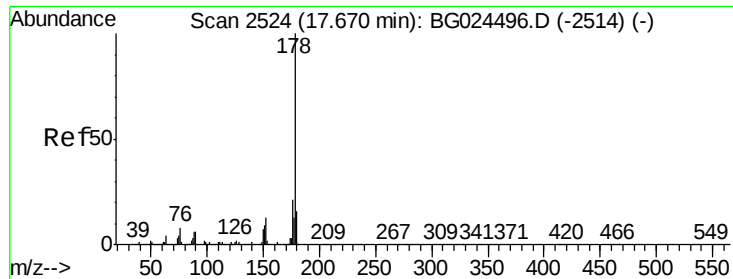


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BG0

Ion 80.00 (79.70 to 80.70): BG0





#70

Phenanthrene

Concen: 2.37 ng

RT: 17.67 min Scan# 2524

Delta R.T. -0.00 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

Instrument :

BNA\_G

ClientSampleId :

GW-78-7.7-15.0

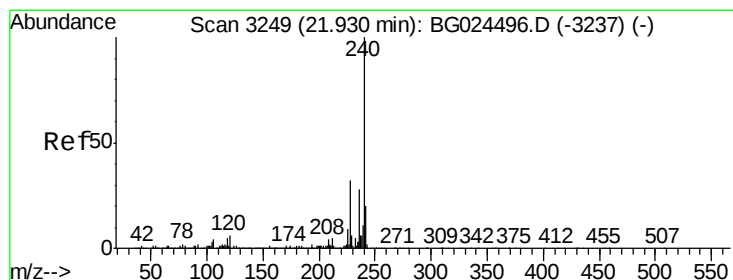
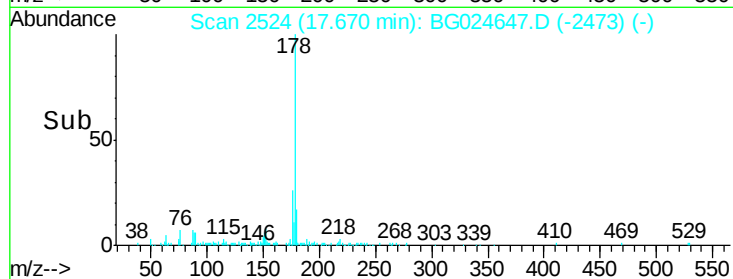
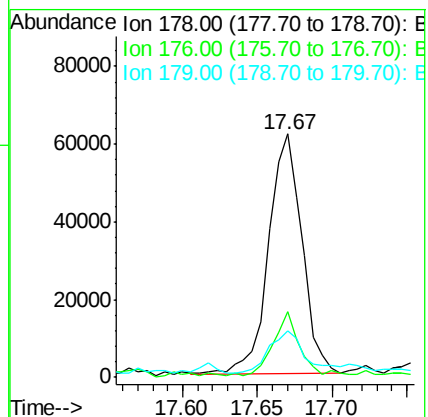
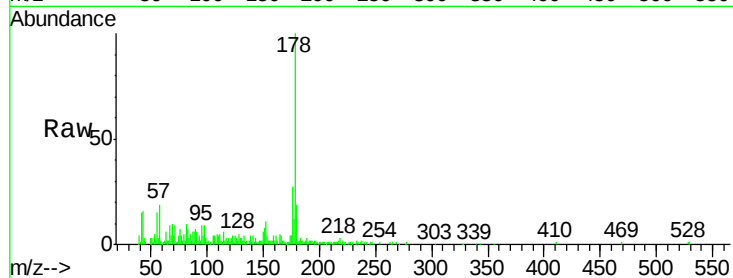
Tgt Ion:178 Resp: 96018

Ion Ratio Lower Upper

178 100

176 26.9 17.7 26.5#

179 19.0 15.0 22.6



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.92 min Scan# 3248

Delta R.T. -0.01 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

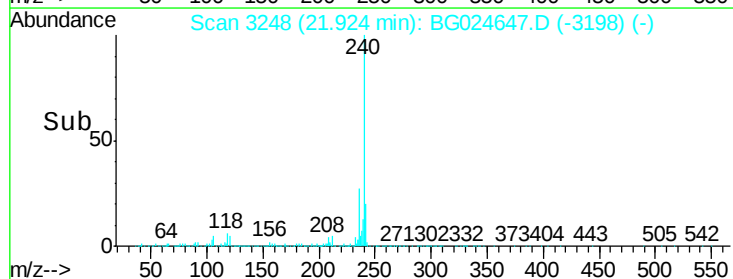
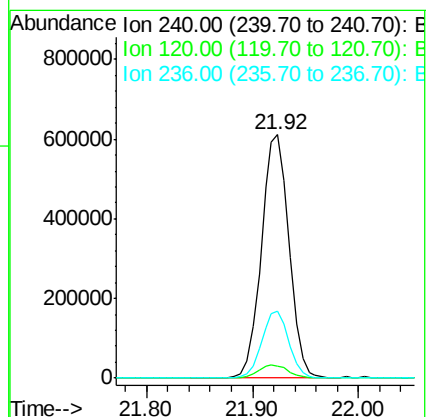
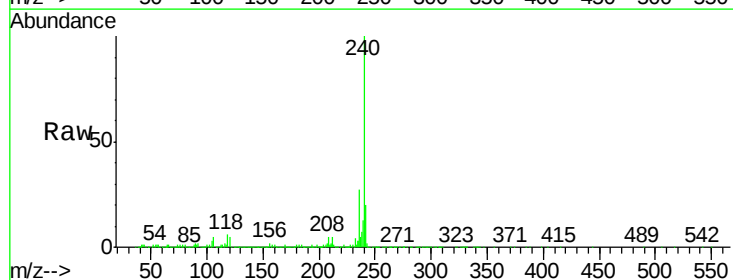
Tgt Ion:240 Resp: 1109900

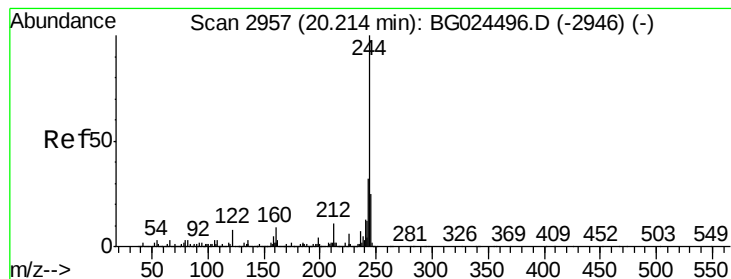
Ion Ratio Lower Upper

240 100

120 5.1 5.7 8.5#

236 27.3 22.2 33.4





#78

Terphenyl-d14

Concen: 71.97 ng

RT: 20.21 min Scan# 2956

Delta R.T. -0.01 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

Instrument :

BNA\_G

ClientSampleId :

GW-78-7.7-15.0

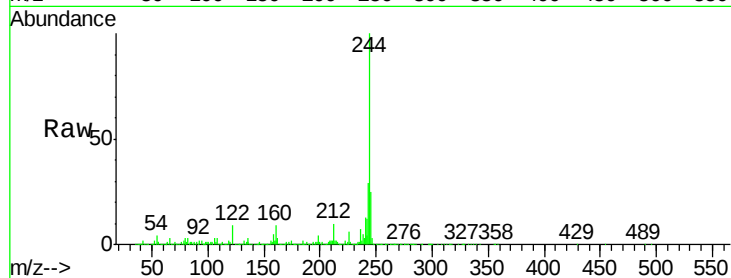
Tgt Ion:244 Resp: 2673109

Ion Ratio Lower Upper

244 100

212 10.4 10.0 15.0

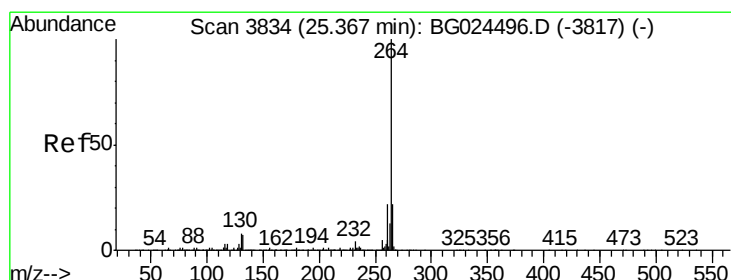
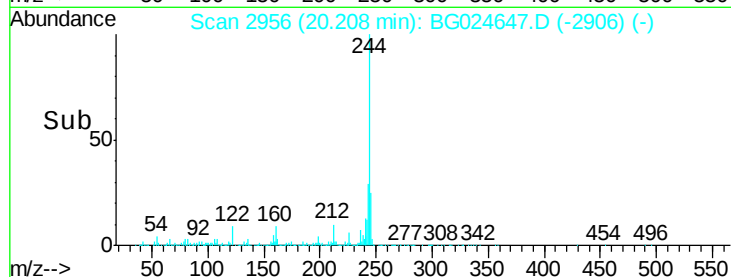
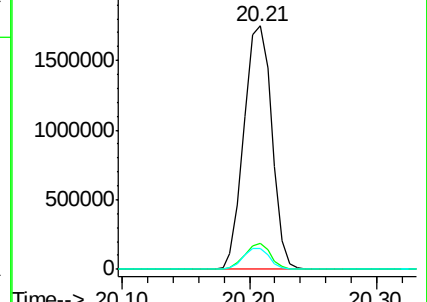
122 8.6 8.6 12.8



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: 20.00 ng

RT: 25.35 min Scan# 3831

Delta R.T. -0.02 min

Lab File: BG024647.D

Acq: 3 Nov 2016 11:16

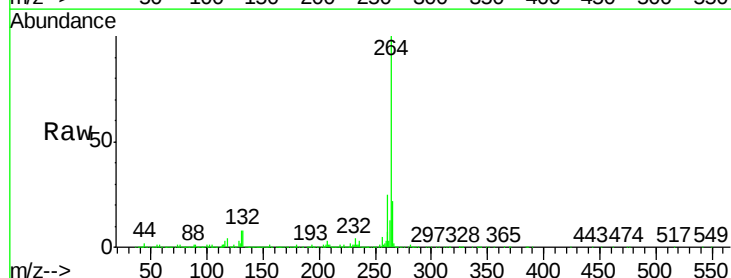
Tgt Ion:264 Resp: 1159230

Ion Ratio Lower Upper

264 100

260 25.2 21.8 32.8

265 21.6 18.2 27.4



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

