

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\  
 Data File : BG025297.D  
 Acq On : 18 Dec 2016 6:00  
 Operator : UM/SJ  
 Sample : H5970-10DL 10X  
 Misc :  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 18 07:28:41 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Dec 18 03:57:56 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 68600    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 282432   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 212063   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 467900   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.89 | 240  | 617821   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.32 | 264  | 619901   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |       |      |       |       |
|--------------------------------|-------|-----|-------|------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.58  | 96  | 393   | 0.30 | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.45  | 99  | 389   | 0.07 | ng/ul | 0.05  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.56  | 67  | 6589  | 1.80 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.76  | 132 | 7849  | 1.90 | ng/ul | -0.01 |
| 13) 4-Methylphenol-d8          | 8.96  | 113 | 9667  | 1.95 | ng/ul | 0.01  |
| 19) Nitrobenzene-d5            | 9.41  | 128 | 5262  | 2.63 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 10.15 | 143 | 4226  | 1.69 | ng/ul | 0.01  |
| 26) 2,4-Dichlorophenol-d3      | 10.69 | 165 | 9378  | 1.96 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.20 | 131 | 21008 | 4.46 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 32403 | 2.22 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.55 | 160 | 36574 | 2.29 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.08 | 143 | 1574  | 0.63 | ng/ul | -0.01 |
| 57) Fluorene-d10               | 15.85 | 176 | 31988 | 2.33 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.99 | 200 | 1526  | 0.53 | ng/ul | 0.01  |
| 70) Anthracene-d10             | 17.70 | 188 | 43452 | 2.20 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.97 | 212 | 57956 | 2.28 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 25.08 | 264 | 57125 | 2.27 | ng/ul | -0.01 |

## Target Compounds

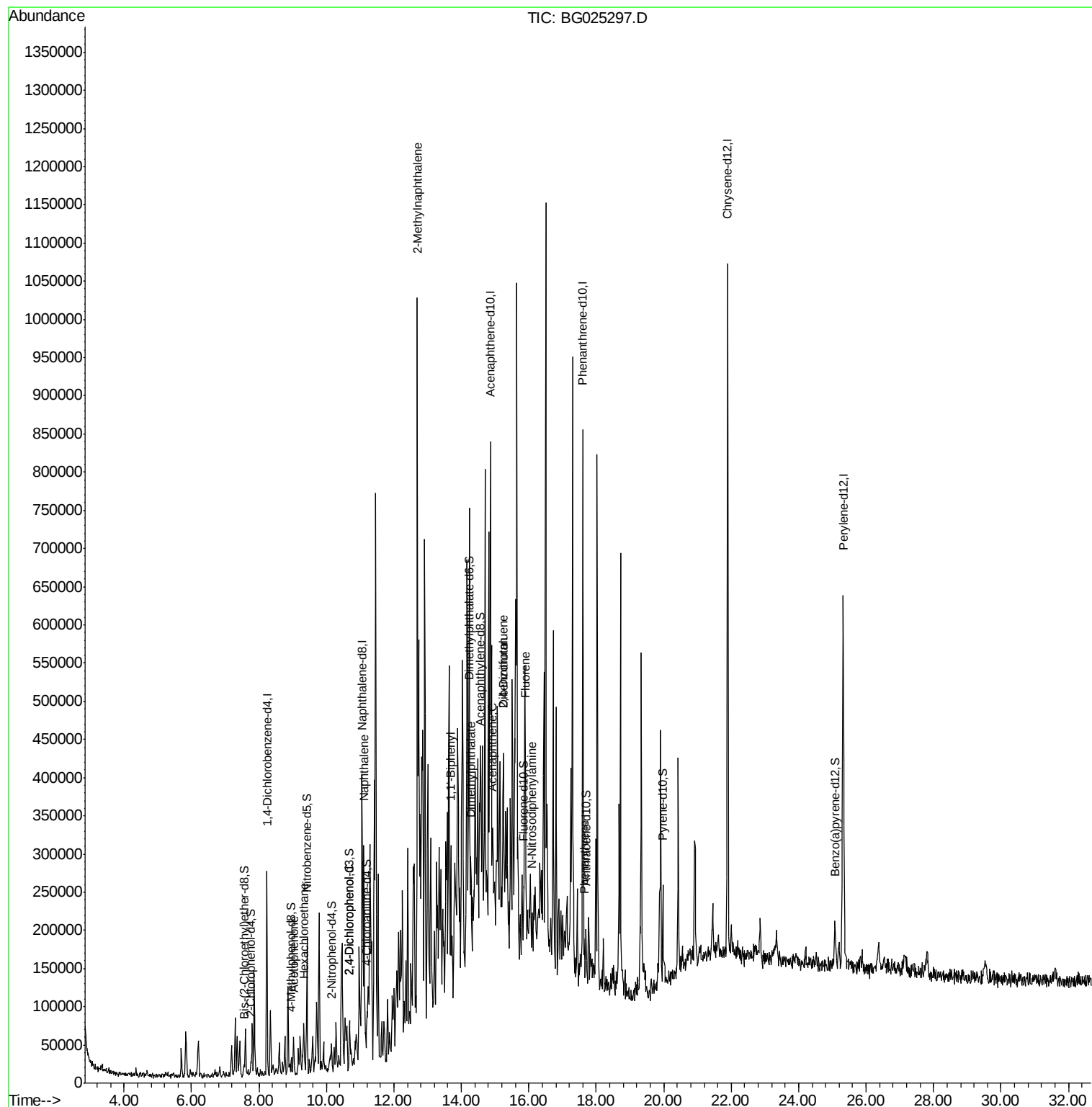
|                            |       |     |        |       |        | Ovalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 14) Acetophenone           | 9.03  | 105 | 30166  | 4.01  | ng/ul# | 22     |
| 17) Hexachloroethane       | 9.33  | 117 | 8585   | 4.66  | ng/ul# | 1      |
| 27) 2,4-Dichlorophenol     | 10.68 | 162 | 7278   | 1.56  | ng/ul# | 31     |
| 28) Naphthalene            | 11.11 | 128 | 211917 | 16.14 | ng/ul  | 98     |
| 34) 2-Methylnaphthalene    | 12.70 | 142 | 429986 | 41.50 | ng/ul  | 93     |
| 40) 1,1'-Biphenyl          | 13.69 | 154 | 102738 | 7.99  | ng/ul  | 99     |
| 44) Dimethylphthalate      | 14.30 | 163 | 18266  | 1.27  | ng/ul# | 90     |
| 49) Acenaphthene           | 14.92 | 153 | 28018  | 2.63  | ng/ul# | 81     |
| 53) Dibenzofuran           | 15.25 | 168 | 66952  | 3.98  | ng/ul  | 93     |
| 54) 2,4-Dinitrotoluene     | 15.24 | 165 | 6518   | 1.40  | ng/ul# | 10     |
| 58) Fluorene               | 15.90 | 166 | 70531  | 5.15  | ng/ul# | 98     |
| 64) N-Nitrosodiphenylamine | 16.10 | 169 | 15949  | 1.32  | ng/ul# | 51     |
| 69) Phenanthrene           | 17.64 | 178 | 40629  | 1.82  | ng/ul  | 95     |

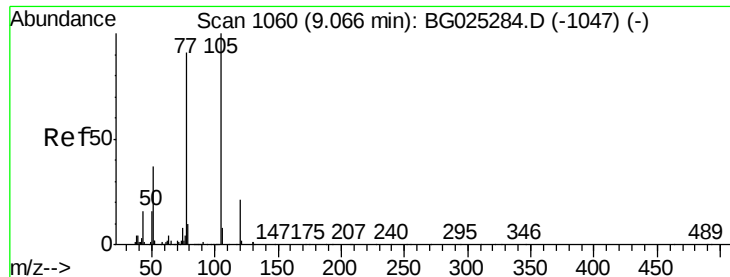
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_G  
ClientSampled :

Quant Time: Dec 18 07:28:41 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Dec 18 03:57:56 2016  
Response via : Initial Calibration





#14

Acetophenone

Concen: 4.01 ng/ul

RT: 9.03 min Scan# 1053

Delta R.T. -0.04 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

Instrument :

BNA\_G

ClientSampleId :

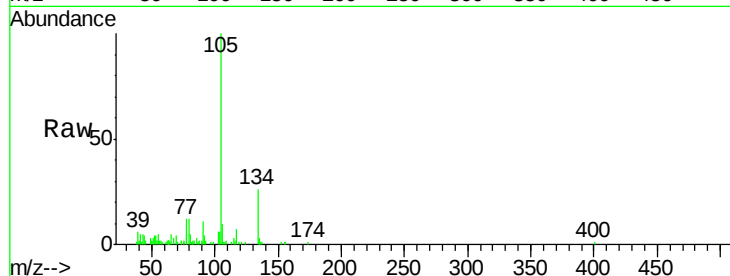
Tot Ion:105 Resp: 30166

Ion Ratio Lower Upper

105 100

77 11.6 76.0 114.0#

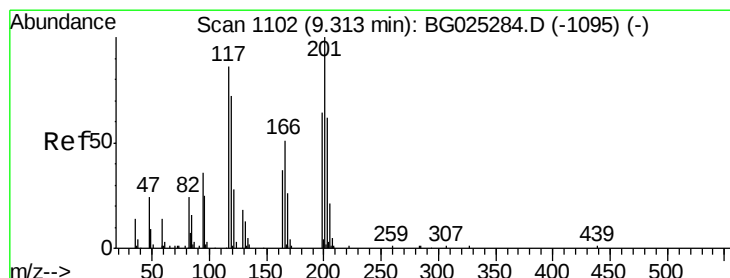
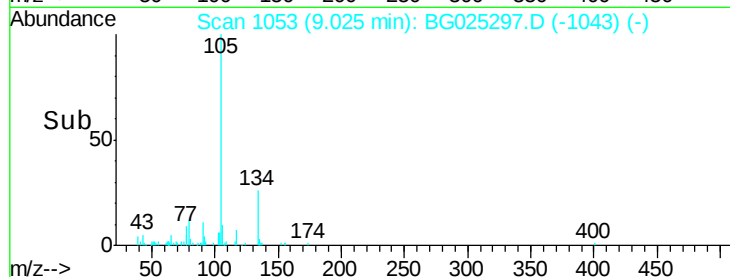
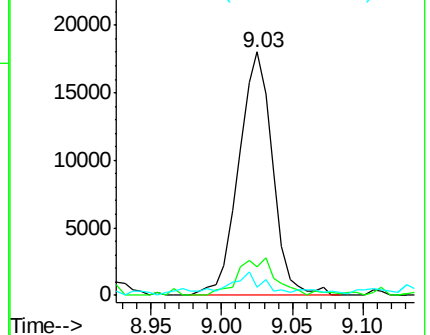
51 3.4 34.8 52.2#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BG

Ion 51.00 (50.70 to 51.70): BG



#17

Hexachloroethane

Concen: 4.66 ng/ul

RT: 9.33 min Scan# 1105

Delta R.T. 0.02 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

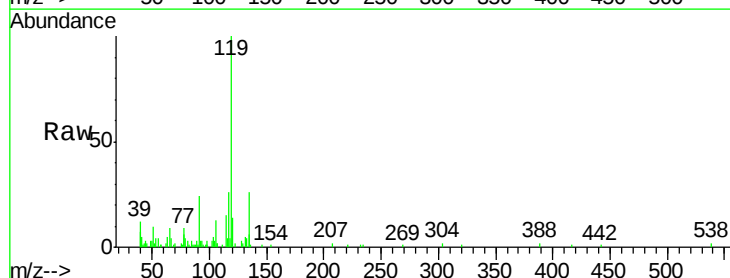
Tgt Ion:117 Resp: 8585

Ion Ratio Lower Upper

117 100

201 0.0 91.9 137.9#

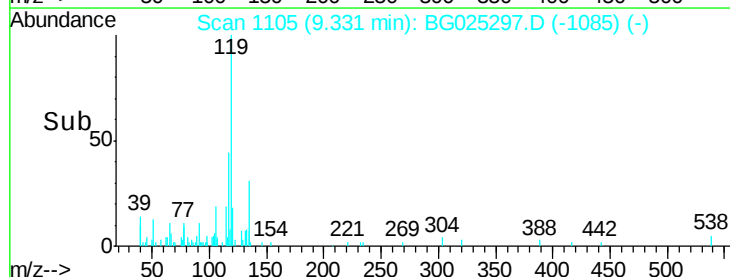
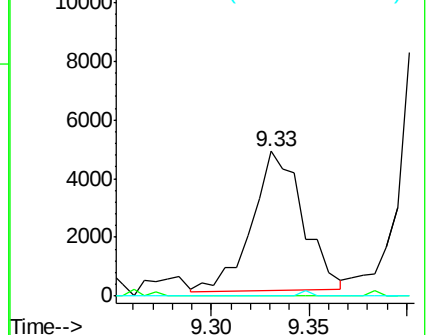
199 0.0 64.3 96.5#

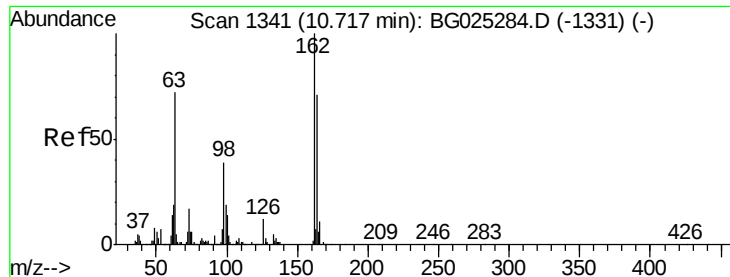


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E





#27

2,4-Dichlorophenol

Concen: 1.56 ng/ul

RT: 10.68 min Scan# 1335

Delta R.T. -0.04 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

Instrument :

BNA\_G

ClientSampled :

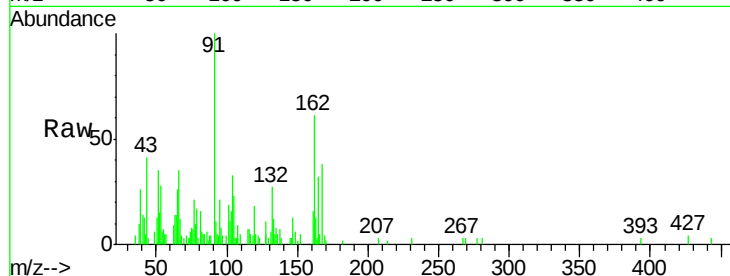
Tot Ion:162 Resp: 7278

Ion Ratio Lower Upper

162 100

164 8.2 50.8 76.2#

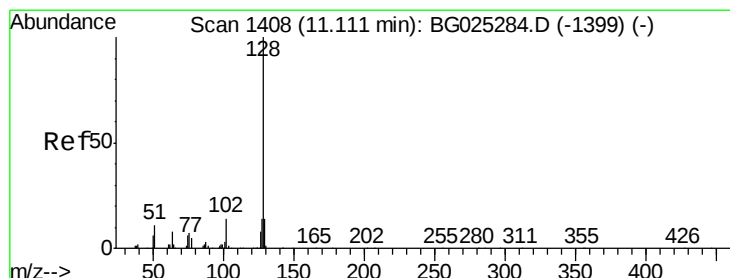
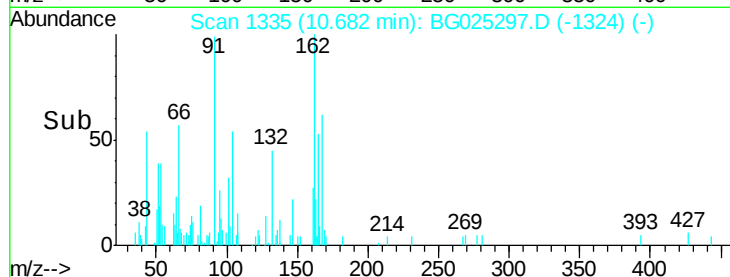
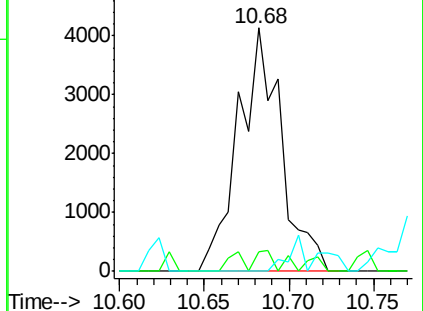
98 0.0 32.1 48.1#



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BG



#28

Naphthalene

Concen: 16.14 ng/ul

RT: 11.11 min Scan# 1408

Delta R.T. -0.00 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

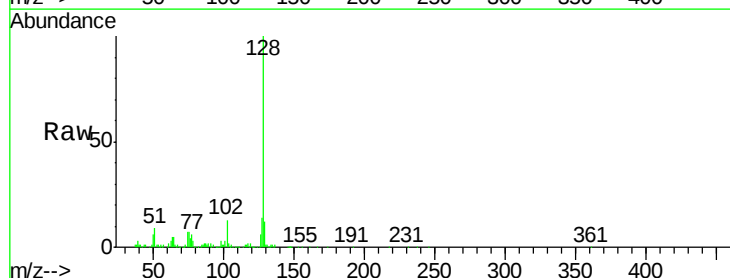
Tgt Ion:128 Resp: 211917

Ion Ratio Lower Upper

128 100

129 12.0 9.4 14.2

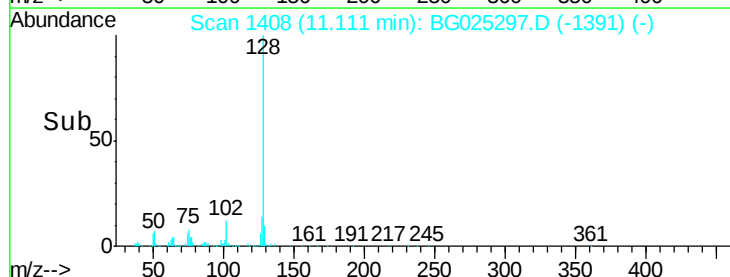
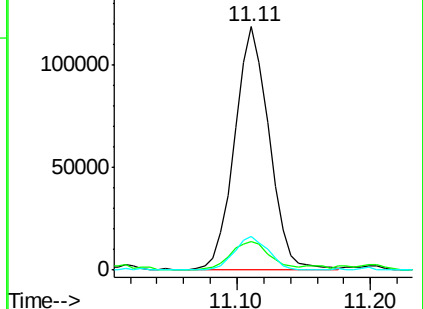
127 13.9 10.3 15.5

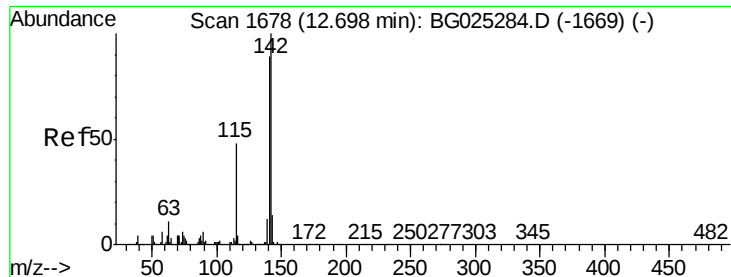


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

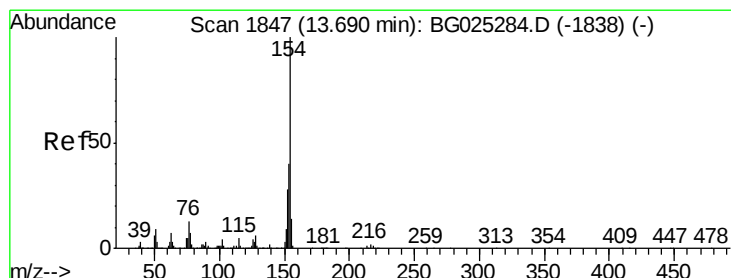
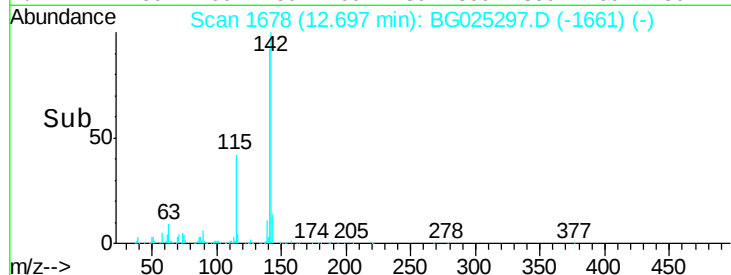
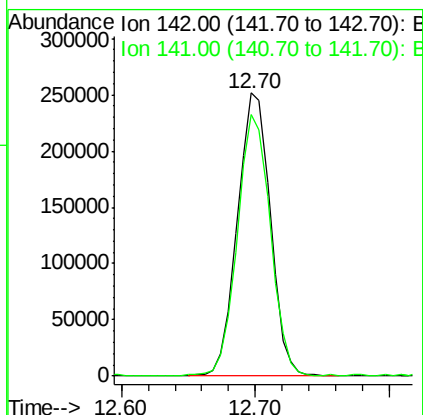
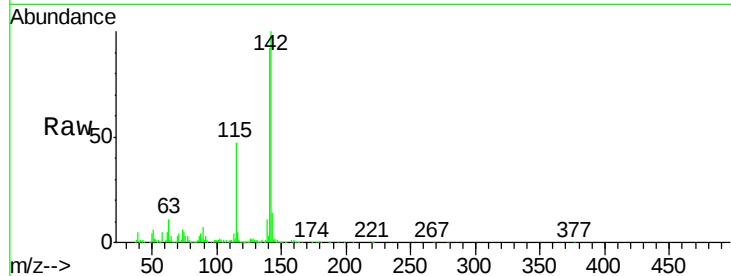




#34  
 2-Methylnaphthalene  
 Concen: 41.50 ng/ul  
 RT: 12.70 min Scan# 1678  
 Delta R.T. -0.00 min  
 Lab File: BG025297.D  
 Acq: 18 Dec 2016 6:00

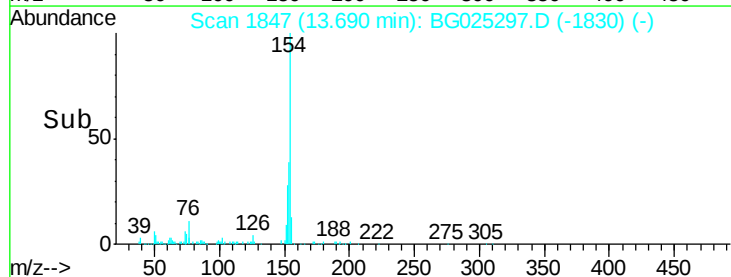
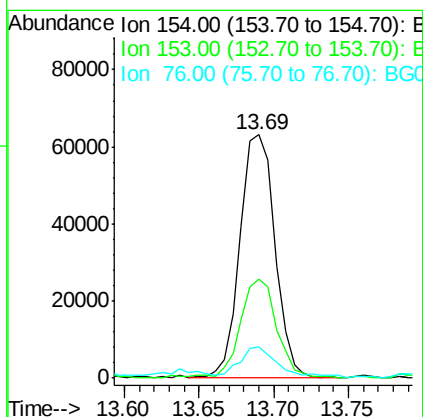
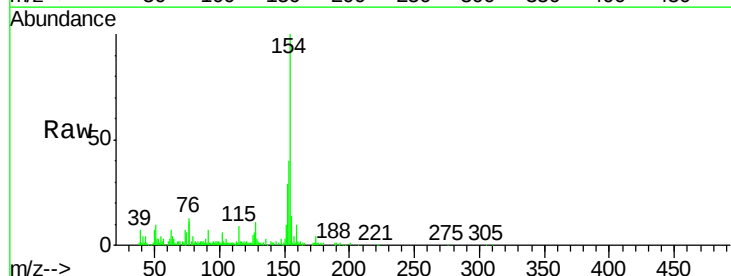
Instrument :  
 BNA\_G  
 ClientSampleId :

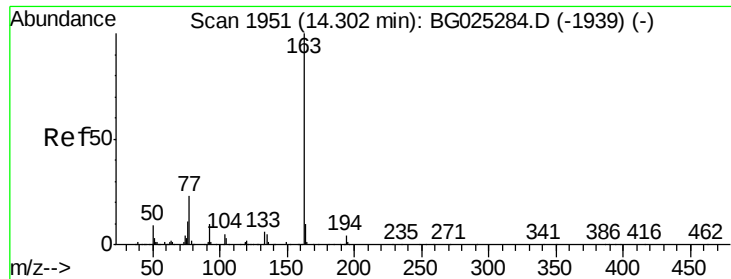
Tot Ion:142 Resp: 429986  
 Ion Ratio Lower Upper  
 142 100  
 141 92.3 68.6 102.8



#40  
 1,1'-Biphenyl  
 Concen: 7.99 ng/ul  
 RT: 13.69 min Scan# 1847  
 Delta R.T. -0.00 min  
 Lab File: BG025297.D  
 Acq: 18 Dec 2016 6:00

Tgt Ion:154 Resp: 102738  
 Ion Ratio Lower Upper  
 154 100  
 153 40.5 32.2 48.2  
 76 12.8 9.6 14.4





#44

Dimethylphthalate

Concen: 1.27 ng/ul

RT: 14.30 min Scan# 1950

Delta R.T. -0.01 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

Instrument :

BNA\_G

ClientSampleId :

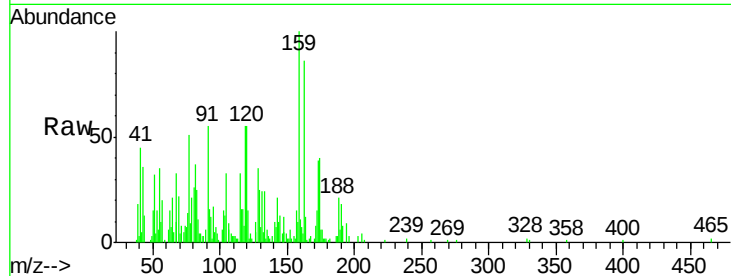
Tot Ion:163 Resp: 18266

Ion Ratio Lower Upper

163 100

194 10.8 3.4 5.0#

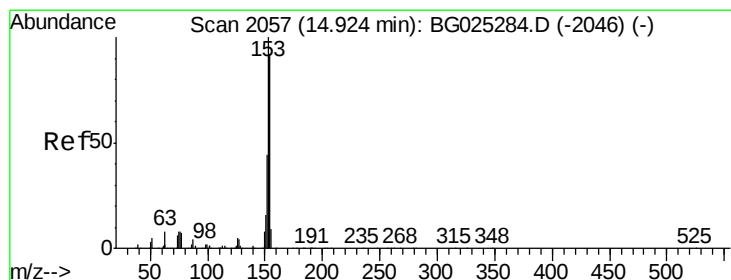
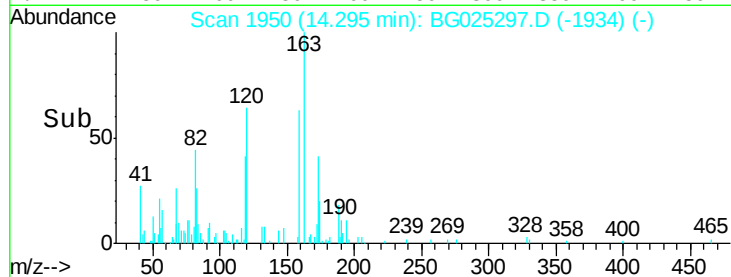
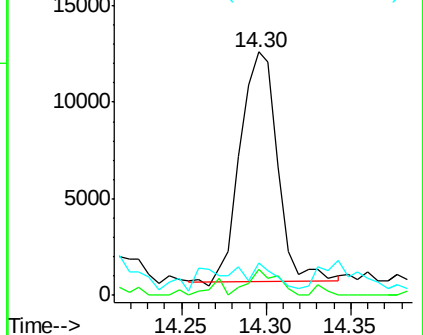
164 13.5 9.0 13.4#



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: 2.63 ng/ul

RT: 14.92 min Scan# 2056

Delta R.T. -0.01 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

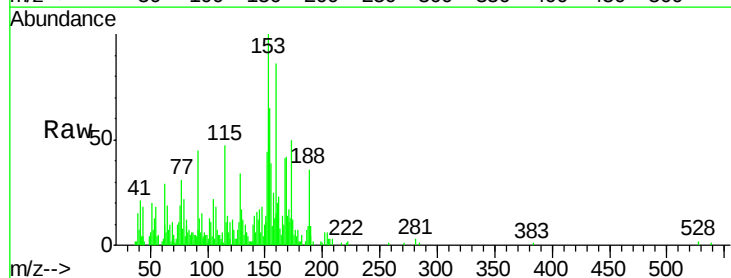
Tgt Ion:153 Resp: 28018

Ion Ratio Lower Upper

153 100

152 44.2 36.5 54.7

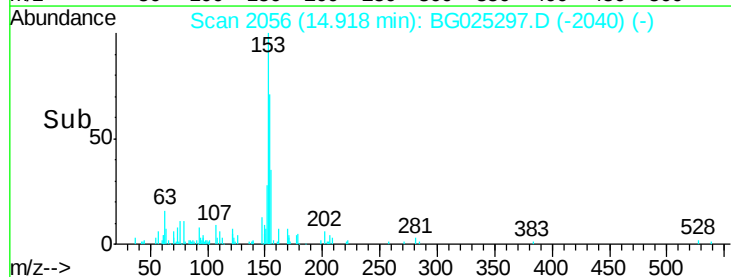
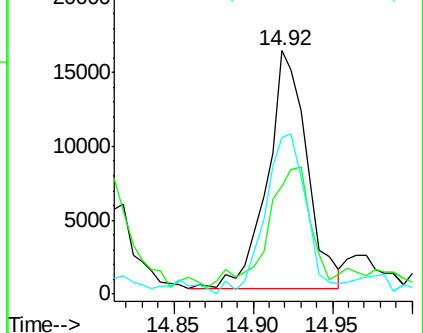
154 64.6 72.3 108.5#

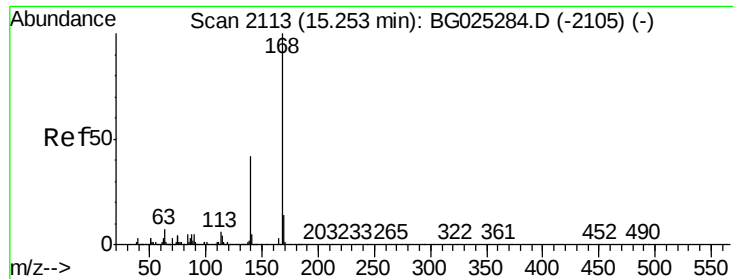


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzenofuran

Concen: 3.98 ng/ul

RT: 15.25 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

Instrument :

BNA\_G

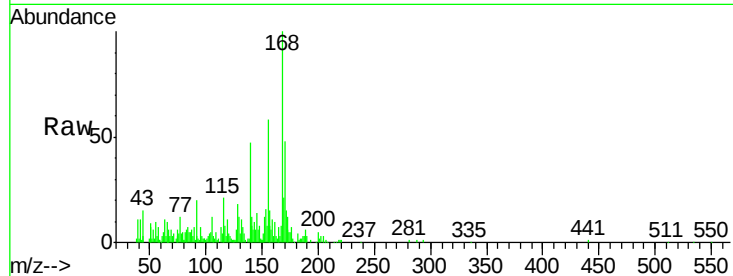
ClientSampleId :

Tot Ion:168 Resp: 66952

Ion Ratio Lower Upper

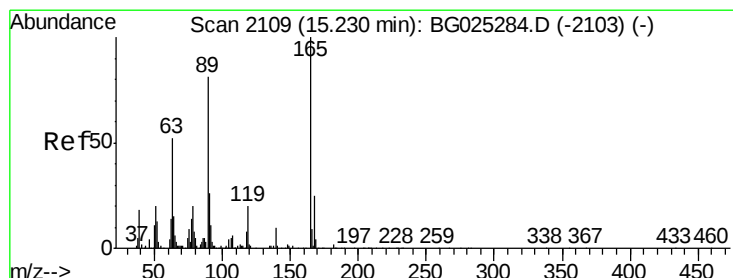
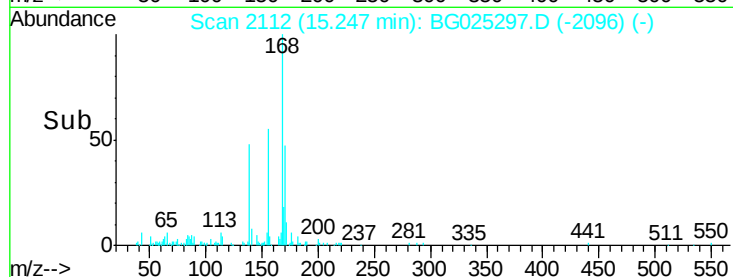
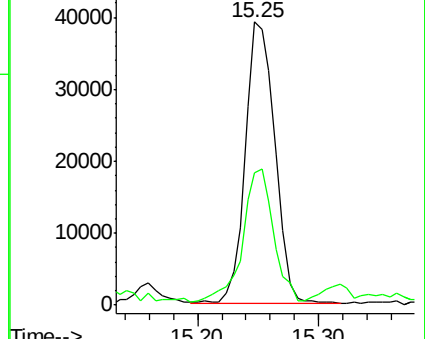
168 100

139 47.0 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#54

2,4-Dinitrotoluene

Concen: 1.40 ng/ul

RT: 15.24 min Scan# 2110

Delta R.T. 0.01 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

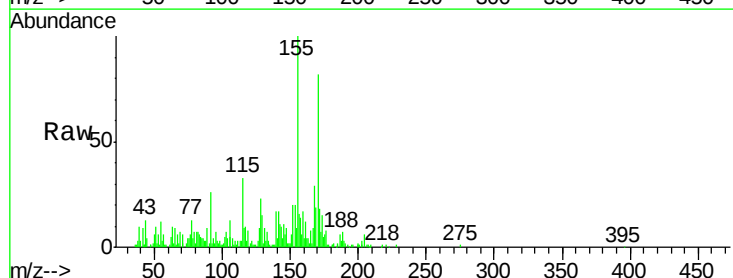
Tgt Ion:165 Resp: 6518

Ion Ratio Lower Upper

165 100

63 126.2 46.8 70.2#

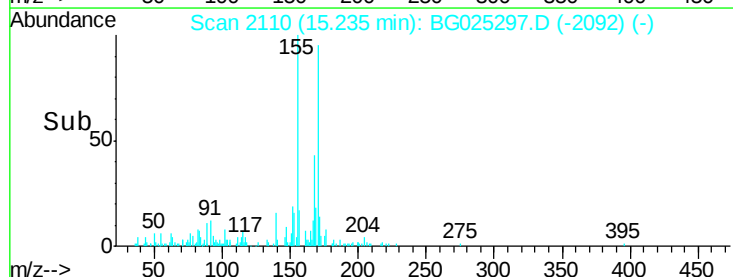
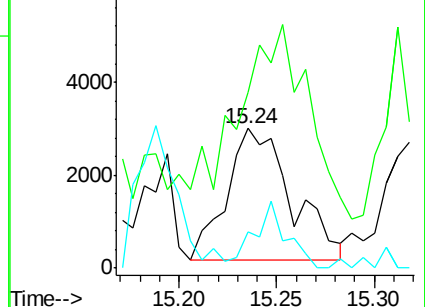
182 26.1 1.8 2.6#

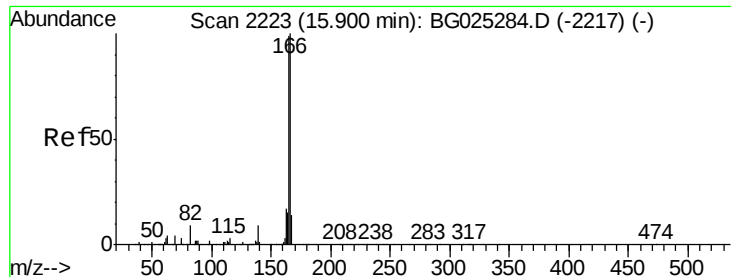


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG0

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 5.15 ng/ul

RT: 15.90 min Scan# 2223

Delta R.T. -0.00 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

Instrument :

BNA\_G

ClientSampleId :

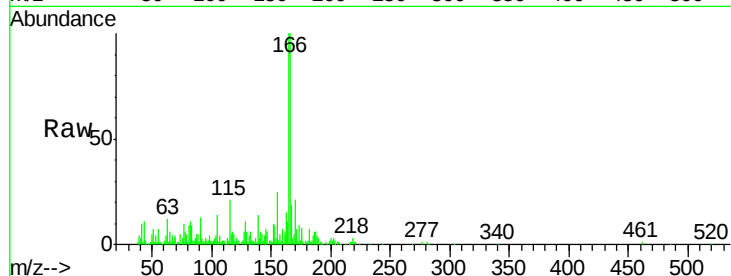
Tot Ion:166 Resp: 70531

Ion Ratio Lower Upper

166 100

165 99.6 79.7 119.5

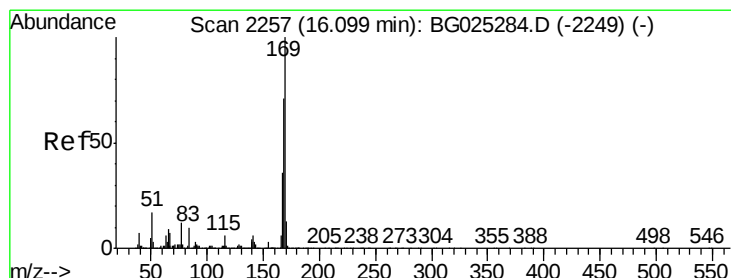
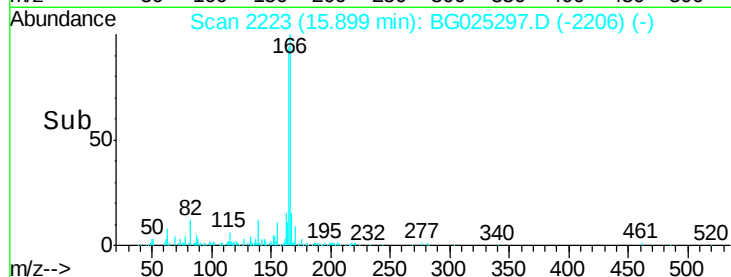
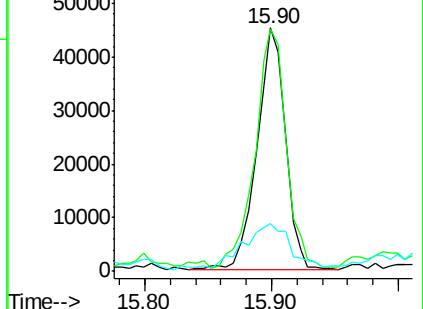
167 19.5 11.4 17.2#



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



#64

N-Nitrosodiphenylamine

Concen: 1.32 ng/ul

RT: 16.10 min Scan# 2257

Delta R.T. -0.00 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

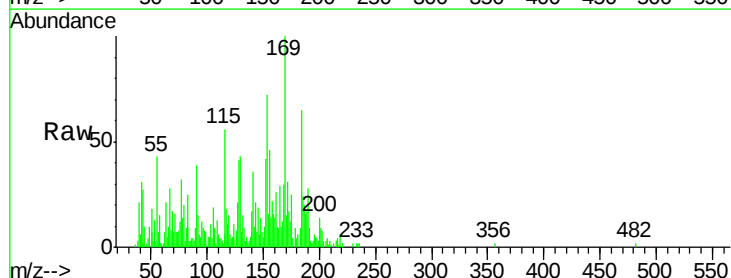
Tgt Ion:169 Resp: 15949

Ion Ratio Lower Upper

169 100

168 29.7 59.1 88.7#

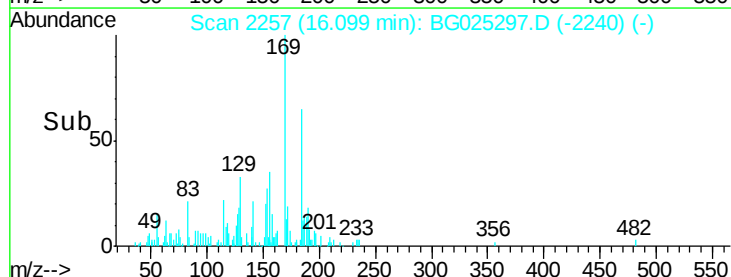
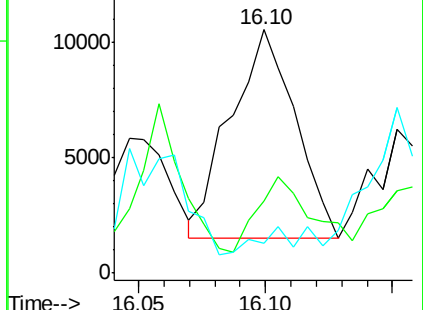
167 12.1 29.7 44.5#

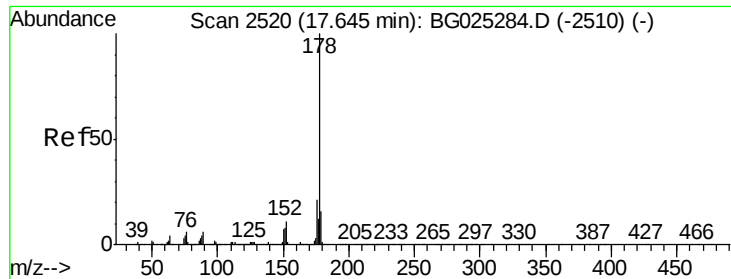


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 1.82 ng/ul

RT: 17.64 min Scan# 2520

Delta R.T. -0.00 min

Lab File: BG025297.D

Acq: 18 Dec 2016 6:00

Instrument :

BNA\_G

ClientSampleId :

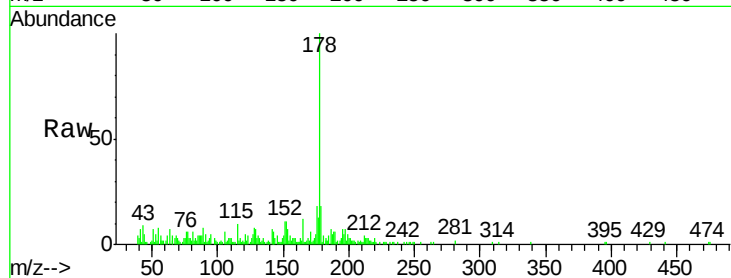
Tot Ion:178 Resp: 40629

Ion Ratio Lower Upper

178 100

179 17.8 12.4 18.6

176 18.1 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

