

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081616\  
 Data File : BG023739.D  
 Acq On : 16 Aug 2016 22:26  
 Operator : UM/SJ  
 Sample : H4422-05  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 AW-1

Quant Time: Aug 17 01:06:06 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\Methods\8270-BG080116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 01 19:22:14 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.10  | 152  | 126281   | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.94 | 136  | 539054   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 14.79 | 164  | 346157   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.56 | 188  | 636314   | 20.00 | ng    | 0.01     |
| 75) Chrysene-d12          | 21.88 | 240  | 685486   | 20.00 | ng    | 0.02     |
| 86) Perylene-d12          | 25.30 | 264  | 684559   | 20.00 | ng    | 0.06     |

|                             |       |     |         |       |    |       |
|-----------------------------|-------|-----|---------|-------|----|-------|
| System Monitoring Compounds |       |     |         |       |    |       |
| 5) 2-Fluorophenol           | 5.65  | 112 | 405914  | 54.11 | ng | -0.01 |
| 7) Phenol-d6                | 7.29  | 99  | 395546  | 33.85 | ng | 0.00  |
| 23) Nitrobenzene-d5         | 9.28  | 82  | 905487  | 83.51 | ng | -0.01 |
| 41) 2,4,6-Tribromophenol    | 16.29 | 330 | 487414  | 96.27 | ng | 0.00  |
| 44) 2-Fluorobiphenyl        | 13.41 | 172 | 1712810 | 83.46 | ng | 0.00  |
| 78) Terphenyl-d14           | 20.17 | 244 | 1597698 | 69.43 | ng | 0.01  |

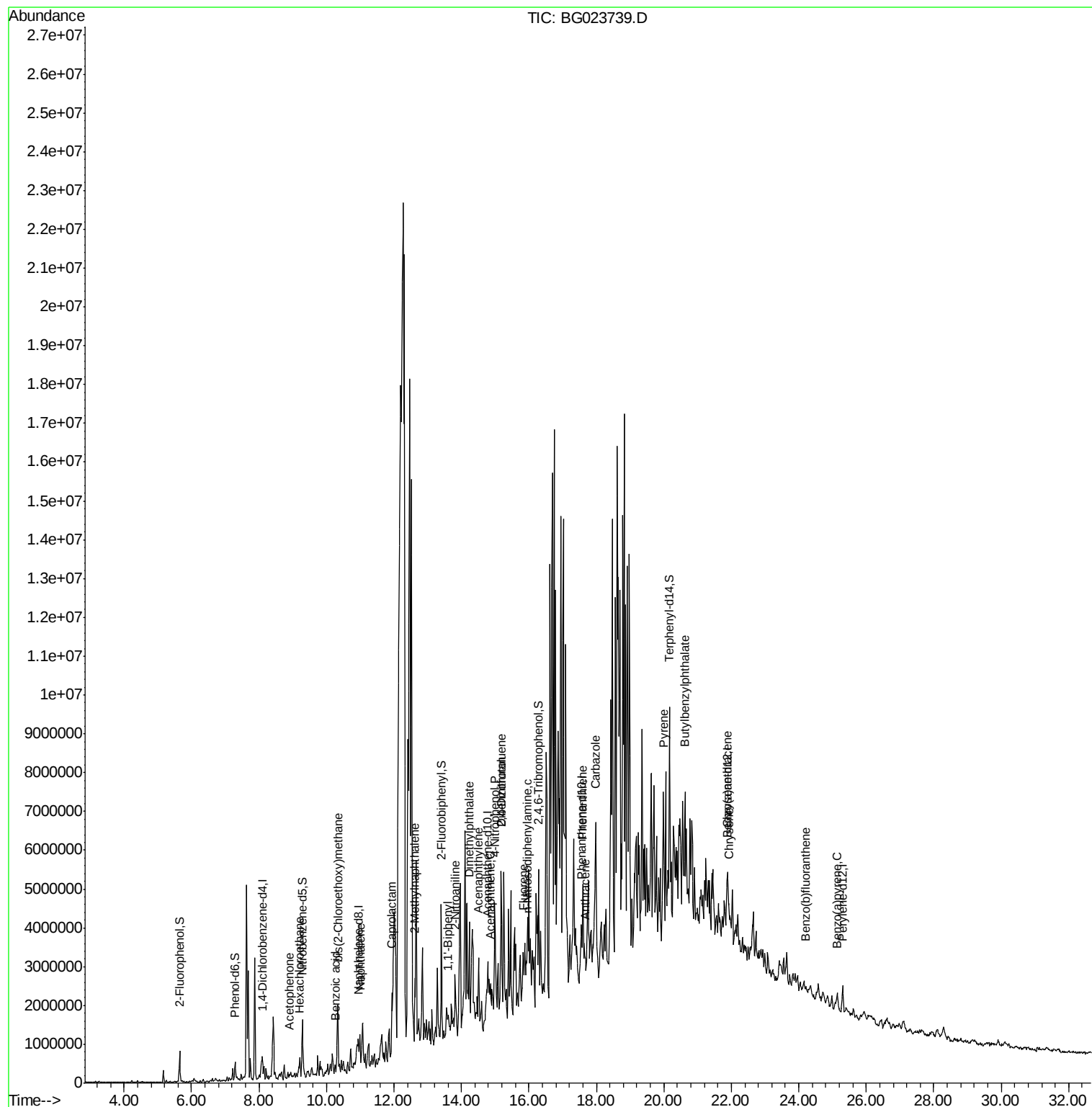
|                                |       |     |         |           |   |    |
|--------------------------------|-------|-----|---------|-----------|---|----|
| Target Compounds               |       |     |         | Qvalue    |   |    |
| 9) Benzaldehyde                | 7.23  | 77  | 10204   | Below Cal | # | 1  |
| 18) Hexachloroethane           | 9.22  | 117 | 51003   | 13.41 ng  | # | 1  |
| 22) Acetophenone               | 8.91  | 105 | 57955   | 3.93 ng   | # | 57 |
| 28) bis(2-Chloroethoxy)methane | 10.34 | 93  | 37467   | 2.76 ng   | # | 1  |
| 31) Naphthalene                | 10.99 | 128 | 298399  | 10.87 ng  | # | 94 |
| 32) Benzoic acid               | 10.25 | 122 | 553     | 6.50 ng   | # | 79 |
| 35) Caprolactam                | 11.94 | 113 | 59206   | 16.22 ng  | # | 1  |
| 37) 2-Methylnaphthalene        | 12.61 | 142 | 779134  | 37.33 ng  |   | 96 |
| 45) 1,1'-Biphenyl              | 13.62 | 154 | 101155  | 3.82 ng   |   | 93 |
| 47) 2-Nitroaniline             | 13.82 | 65  | 25261   | 2.97 ng   | # | 55 |
| 48) Acenaphthylene             | 14.51 | 152 | 65380   | 2.02 ng   | # | 1  |
| 49) Dimethylphthalate          | 14.23 | 163 | 224420  | 8.45 ng   |   | 99 |
| 51) Acenaphthene               | 14.85 | 154 | 175411  | 8.56 ng   |   | 90 |
| 54) Dibenzofuran               | 15.19 | 168 | 100054  | 3.36 ng   | # | 1  |
| 55) 4-Nitrophenol              | 14.99 | 139 | 167566  | 30.08 ng  | # | 19 |
| 56) 2,4-Dinitrotoluene         | 15.18 | 165 | 77922   | 8.83 ng   | # | 53 |
| 57) Fluorene                   | 15.84 | 166 | 254036  | 9.78 ng   |   | 99 |
| 65) n-Nitrosodiphenylamine     | 15.94 | 169 | 281279  | 15.07 ng  |   | 87 |
| 70) Phenanthrene               | 17.60 | 178 | 1215677 | 37.65 ng  |   | 95 |
| 71) Anthracene                 | 17.69 | 178 | 152929  | 4.71 ng   | # | 84 |
| 72) Carbazole                  | 17.97 | 167 | 68261   | 2.39 ng   | # | 1  |
| 73) Di-n-butylphthalate        | 18.51 | 149 | 95962   | Below Cal | # | 61 |
| 74) Fluoranthene               | 19.62 | 202 | 177217  | Below Cal |   | 66 |
| 77) Pyrene                     | 19.99 | 202 | 1002169 | 21.14 ng  | # | 75 |
| 79) Butylbenzylphthalate       | 20.62 | 149 | 80483   | 4.88 ng   |   | 99 |
| 80) Benzo(a)anthracene         | 21.87 | 228 | 437746  | 11.57 ng  | # | 49 |
| 82) Chrysene                   | 21.93 | 228 | 779425  | 21.65 ng  | # | 69 |
| 87) Benzo(b)fluoranthene       | 24.20 | 252 | 133192  | 3.46 ng   | # | 57 |
| 89) Benzo(a)pyrene             | 25.14 | 252 | 252578  | 6.90 ng   | # | 64 |

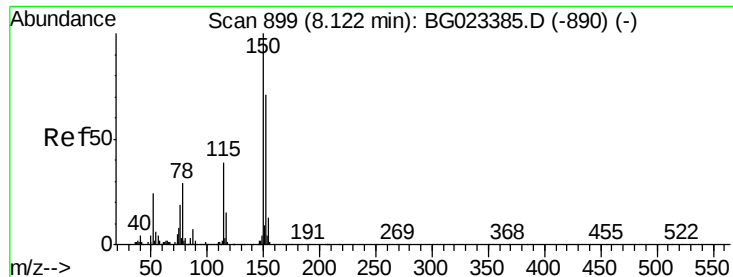
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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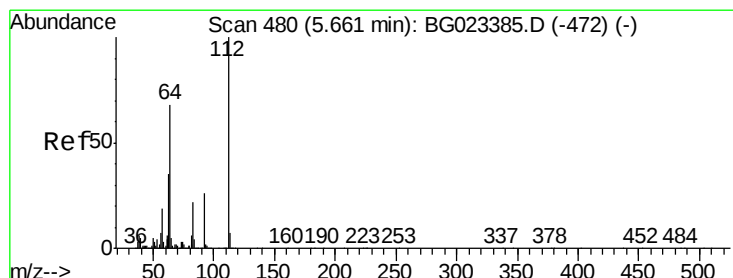
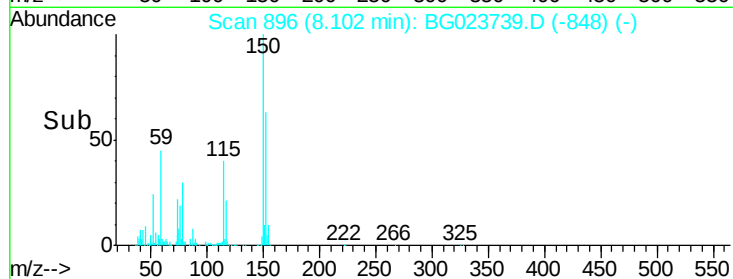
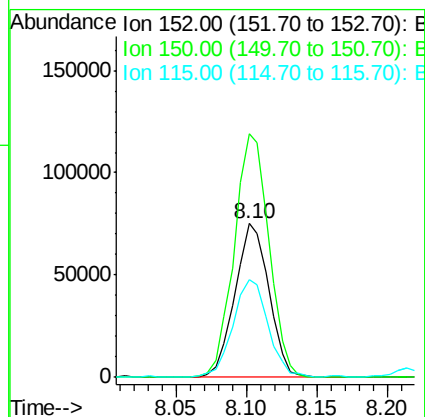
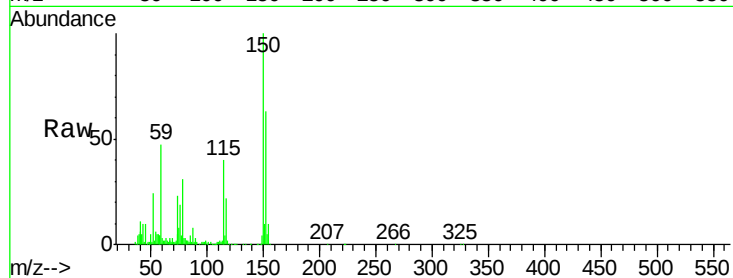


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.10 min Scan# 896  
Delta R.T. -0.02 min  
Lab File: BG023739.D  
Acq: 16 Aug 2016 22:26

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ClientSampleId :  
AW-1

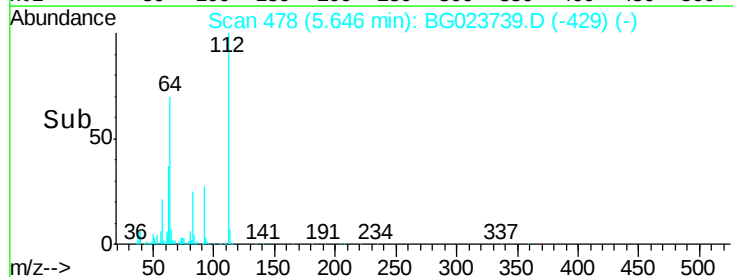
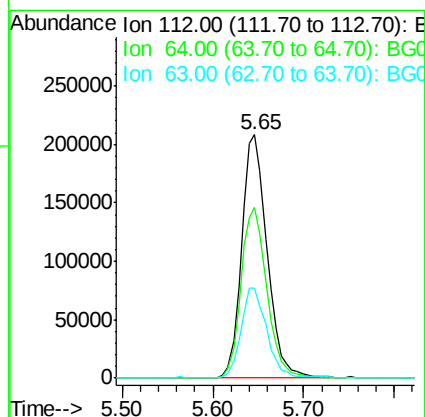
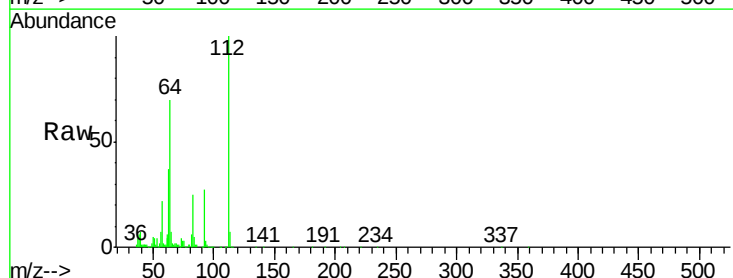
Tgt Ion:152 Resp: 126281  
Ion Ratio Lower Upper  
152 100  
150 158.5 144.7 217.1  
115 64.0 64.0 96.0#

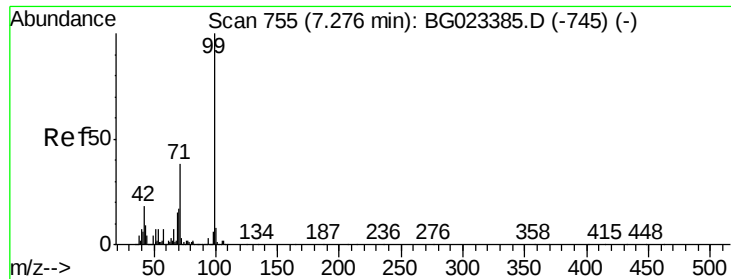


#5

2-Fluorophenol  
Concen: 54.11 ng  
RT: 5.65 min Scan# 478  
Delta R.T. -0.01 min  
Lab File: BG023739.D  
Acq: 16 Aug 2016 22:26

Tgt Ion:112 Resp: 405914  
Ion Ratio Lower Upper  
112 100  
64 70.0 59.0 88.4  
63 37.2 37.8 56.8#





#7

Phenol-d6

Concen: 33.85 ng

RT: 7.29 min Scan# 757

Delta R.T. 0.01 min

Lab File: BG023739.D

Acq: 16 Aug 2016 22:26

Instrument :

BNA\_G

ClientSampleId :

AW-1

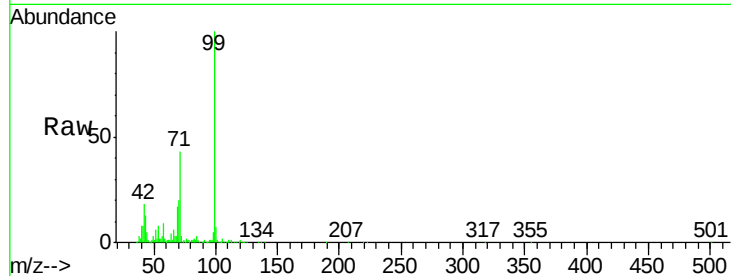
Tgt Ion: 99 Resp: 395546

Ion Ratio Lower Upper

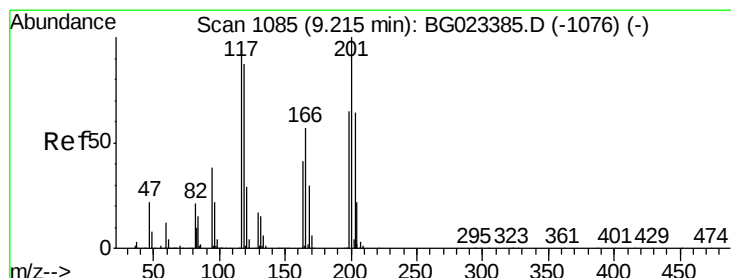
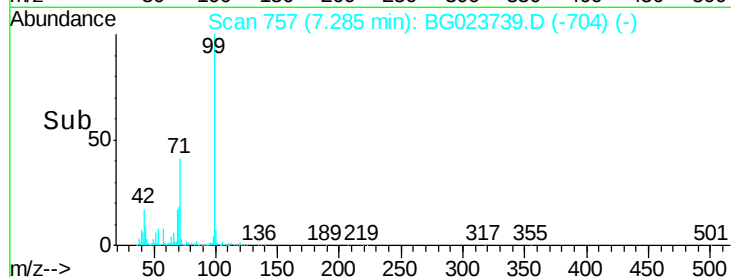
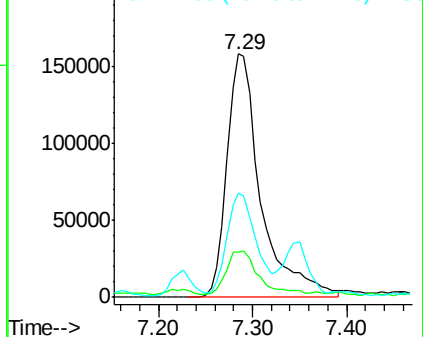
99 100

42 18.4 17.8 26.6

71 42.6 41.5 62.3



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: 13.41 ng

RT: 9.22 min Scan# 1086

Delta R.T. 0.00 min

Lab File: BG023739.D

Acq: 16 Aug 2016 22:26

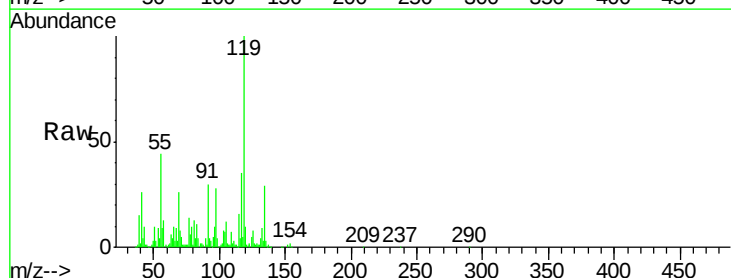
Tgt Ion: 117 Resp: 51003

Ion Ratio Lower Upper

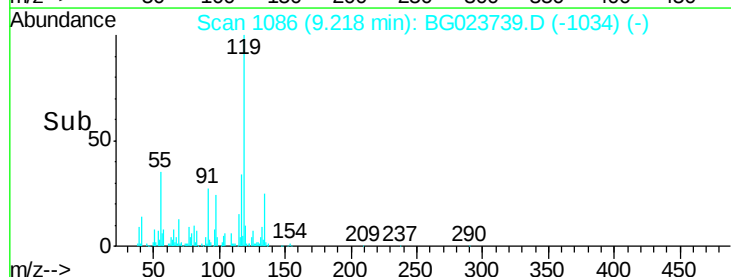
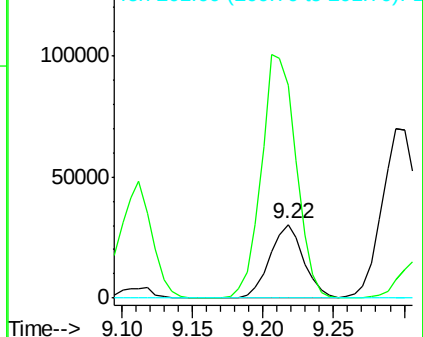
117 100

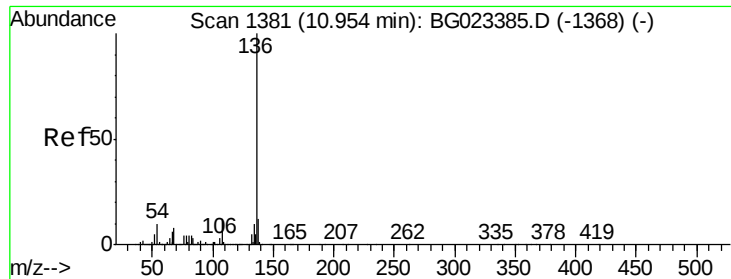
119 289.3 73.7 110.5#

201 0.0 88.7 133.1#



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

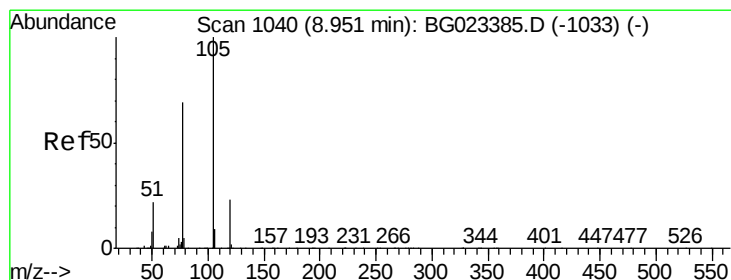
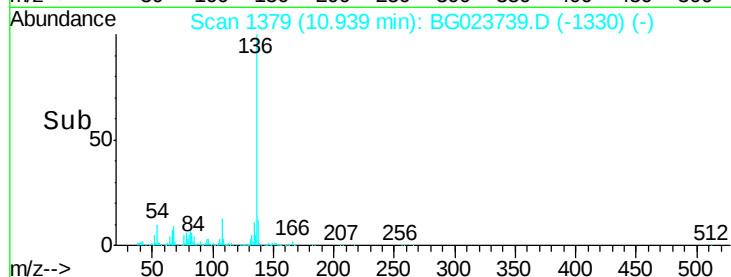
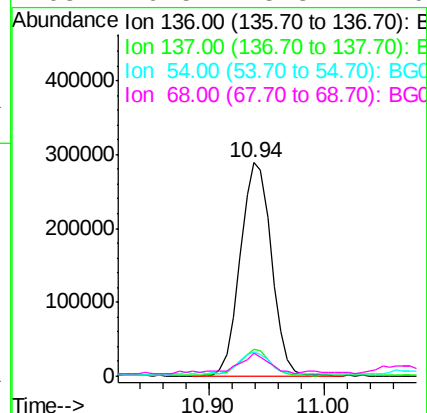
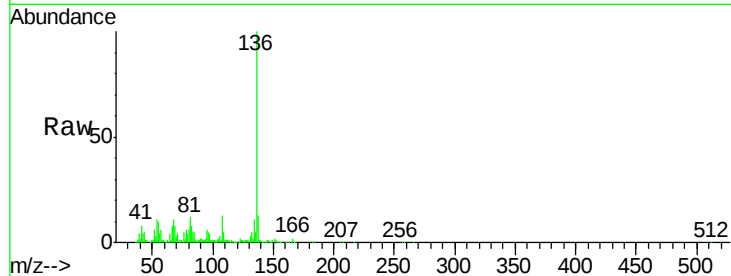




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.94 min Scan# 1379  
Delta R.T. -0.01 min  
Lab File: BG023739.D  
Acq: 16 Aug 2016 22:26

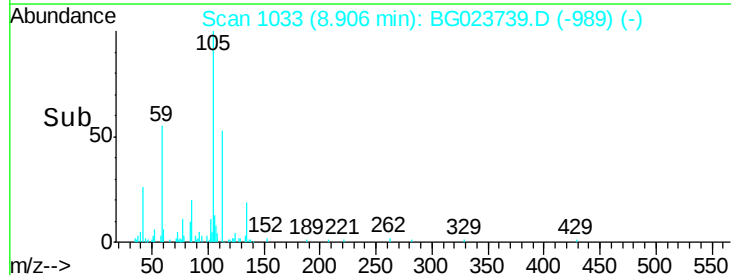
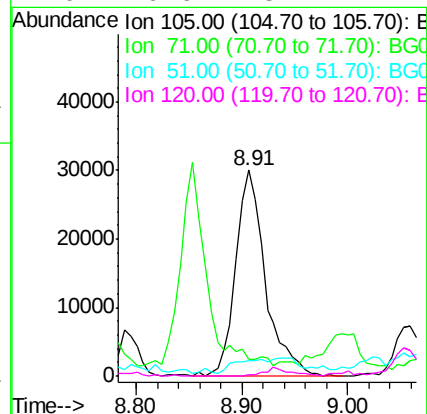
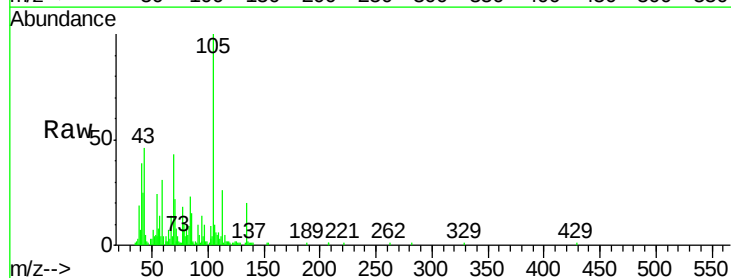
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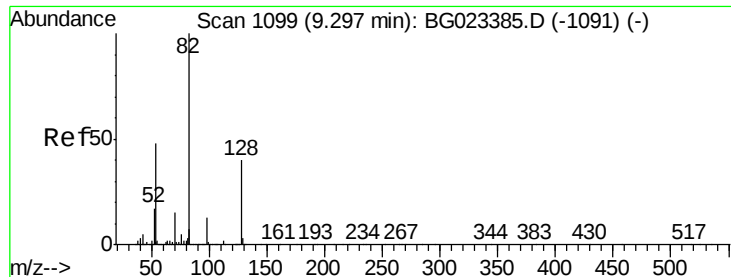
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 539054 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 12.6  | 9.6   | 14.4   |
| 54       | 11.1  | 7.3   | 10.9#  |
| 68       | 10.5  | 5.3   | 7.9#   |



#22  
Acetophenone  
Concen: 3.93 ng  
RT: 8.91 min Scan# 1033  
Delta R.T. -0.04 min  
Lab File: BG023739.D  
Acq: 16 Aug 2016 22:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 57955 |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 71       | 8.1   | 2.6   | 3.8#  |
| 51       | 7.2   | 27.1  | 40.7# |
| 120      | 0.6   | 15.1  | 22.7# |

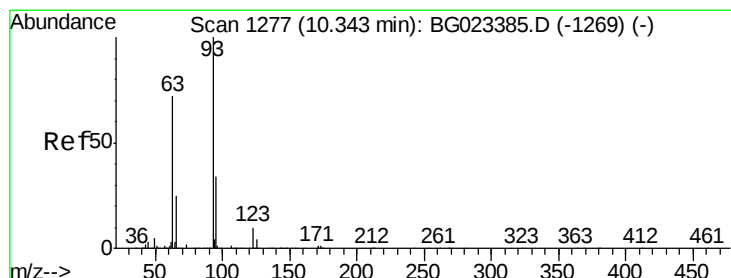
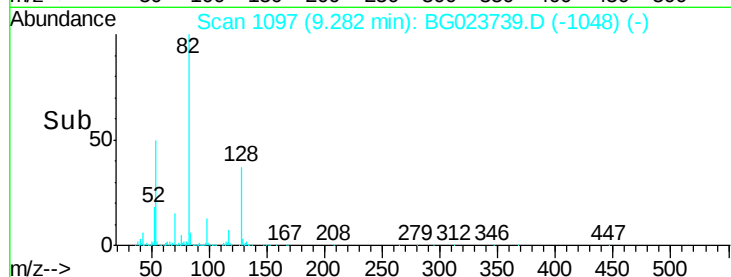
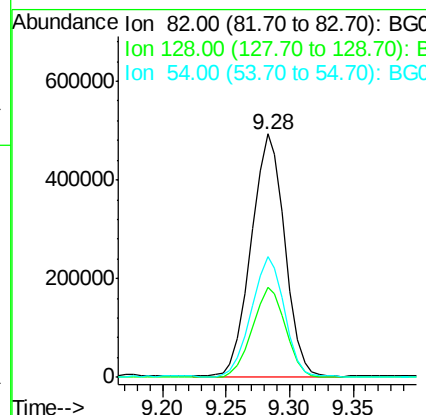
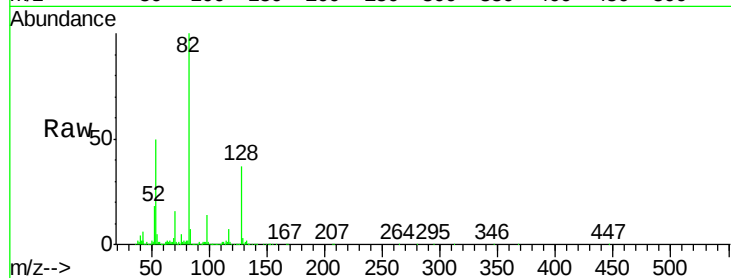




#23  
 Nitrobenzene-d5  
 Concen: 83.51 ng  
 RT: 9.28 min Scan# 1097  
 Delta R.T. -0.01 min  
 Lab File: BG023739.D  
 Acq: 16 Aug 2016 22:26

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 BNA\_G  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 37.0  | 24.4  | 36.6# |
| 54      | 49.6  | 41.4  | 62.0  |



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 2.76 ng  
 RT: 10.34 min Scan# 1277  
 Delta R.T. -0.00 min  
 Lab File: BG023739.D  
 Acq: 16 Aug 2016 22:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 581.8 | 25.4  | 38.2# |
| 123     | 12.8  | 8.2   | 12.2# |

