

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG081721\  
 Data File : BG049887.D  
 Acq On : 17 Aug 2021 21:16  
 Operator : CG/JU  
 Sample : M3431-03  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 3

Quant Time: Aug 18 05:44:18 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG080321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 16 18:23:02 2021  
 Response via : Initial Calibration

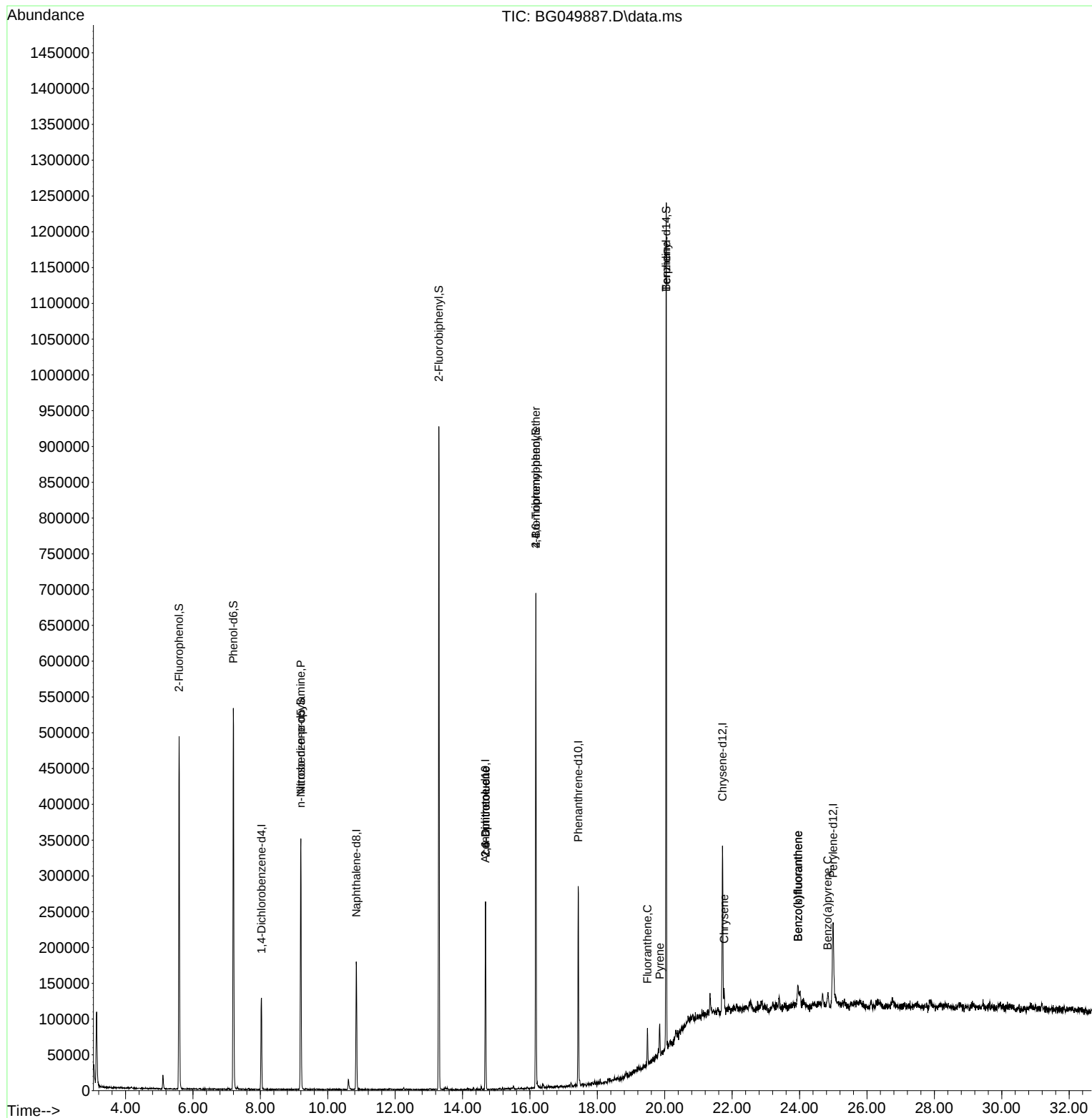
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.033  | 152  | 37459    | 20.000 | ng    | # 0.00   |
| 21) Naphthalene-d8            | 10.846 | 136  | 150614   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.676 | 164  | 93153    | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.432 | 188  | 172953   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.714 | 240  | 136854   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 24.998 | 264  | 138926   | 20.000 | ng    | 0.01     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.589  | 112  | 208690   | 99.869 | ng    | 0.01     |
| 7) Phenol-d6                  | 7.198  | 99   | 297800   | 94.146 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.202  | 82   | 220710   | 64.846 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.174 | 330  | 134787   | 98.440 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.296 | 172  | 461138   | 72.031 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.046 | 244  | 551940   | 73.249 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.196  | 70   | 33283    | 15.724 | ng    | # 65     |
| 51) 2,6-Dinitrotoluene        | 14.682 | 165  | 11596    | 7.494  | ng    | # 10     |
| 57) 2,4-Dinitrotoluene        | 14.682 | 165  | 11596    | 5.335  | ng    | # 15     |
| 67) 4-Bromophenyl-phenylether | 16.174 | 248  | 8503     | 4.174  | ng    | # 1      |
| 75) Fluoranthene              | 19.488 | 202  | 32646    | 2.916  | ng    | 98       |
| 77) Benzidine                 | 20.046 | 184  | 11954    | 3.409  | ng    | # 94     |
| 78) Pyrene                    | 19.852 | 202  | 31023    | 3.325  | ng    | 97       |
| 83) Chrysene                  | 21.761 | 228  | 24927    | 2.926  | ng    | 93       |
| 88) Benzo(b)fluoranthene      | 23.958 | 252  | 38742    | 4.252  | ng    | # 89     |
| 89) Benzo(k)fluoranthene      | 23.958 | 252  | 38742    | 4.558  | ng    | # 94     |
| 90) Benzo(a)pyrene            | 24.833 | 252  | 21947    | 2.662  | ng    | # 87     |
| -----                         |        |      |          |        |       |          |

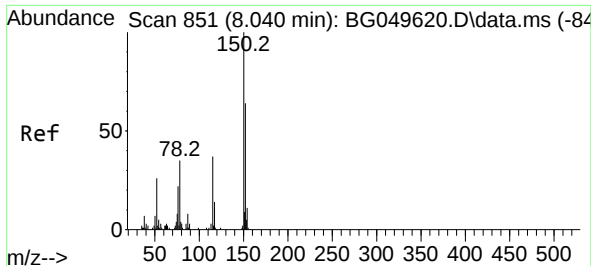
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 18 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 16 18:23:02 2021  
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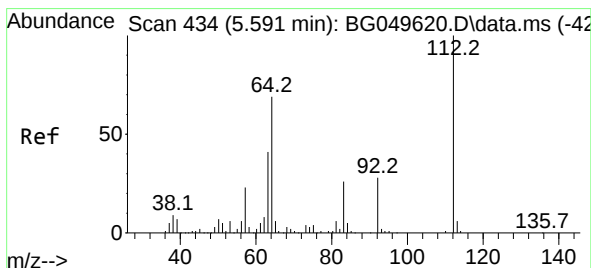
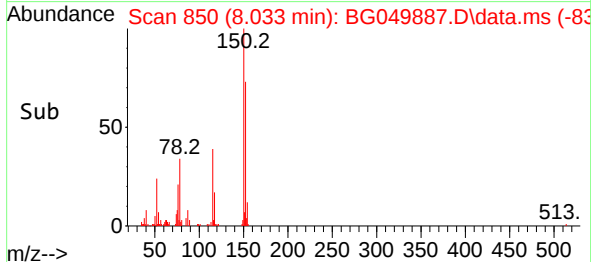
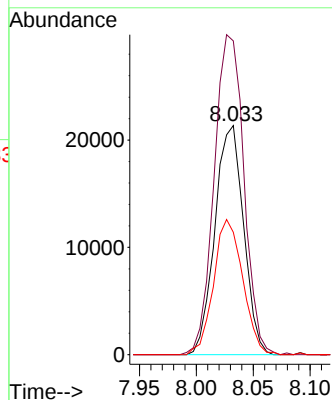
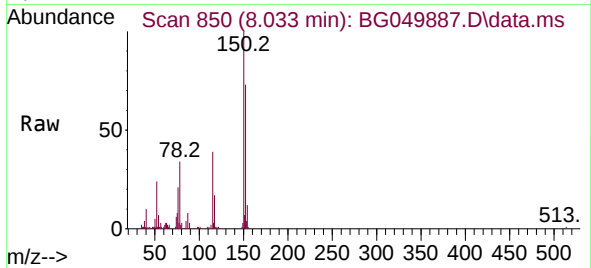




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.033 min Scan# 850  
Delta R.T. 0.005 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

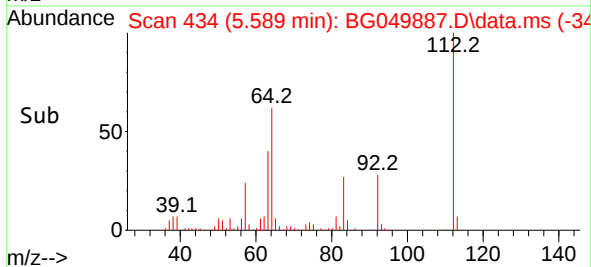
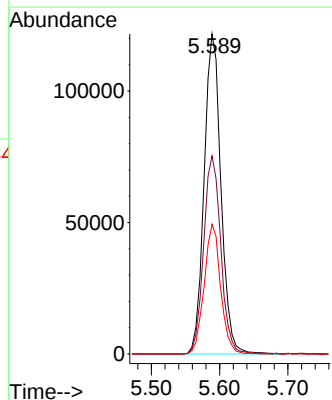
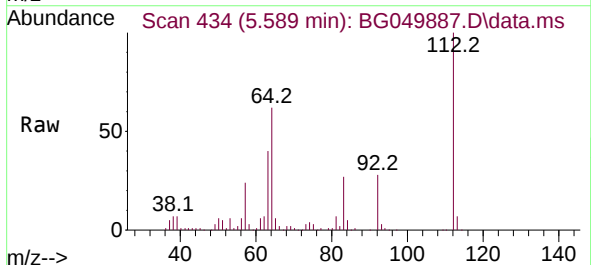
Instrument :  
BNA\_G  
ClientSampled :  
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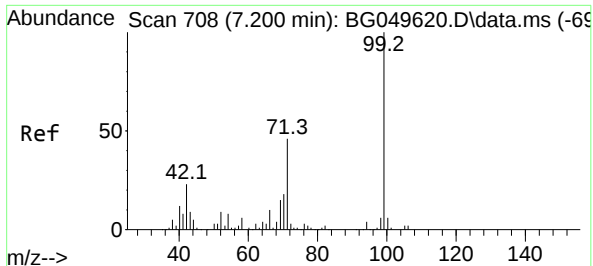
Tgt Ion:152 Resp: 37459  
Ion Ratio Lower Upper  
152 100  
150 136.9 119.4 179.0  
115 53.4 60.2 90.4#



#5  
2-Fluorophenol  
Concen: 99.869 ng  
RT: 5.589 min Scan# 434  
Delta R.T. 0.010 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

Tgt Ion:112 Resp: 208690  
Ion Ratio Lower Upper  
112 100  
64 61.9 46.7 70.1  
63 40.5 35.3 52.9

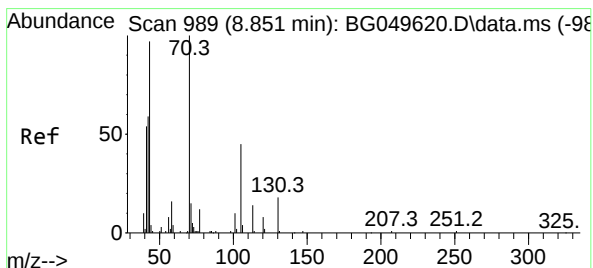
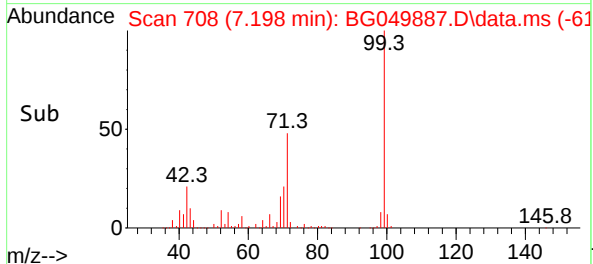
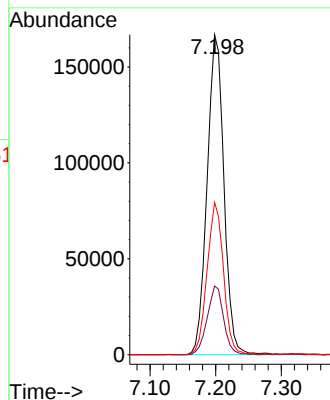
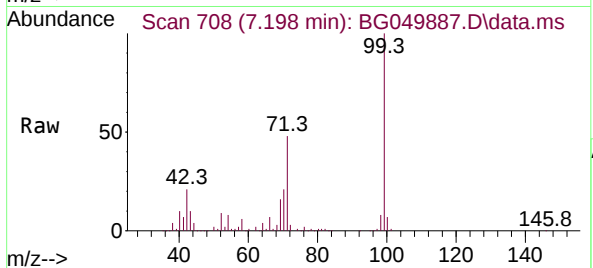




#7  
Phenol-d6  
Concen: 94.146 ng  
RT: 7.198 min Scan# 708  
Delta R.T. 0.005 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

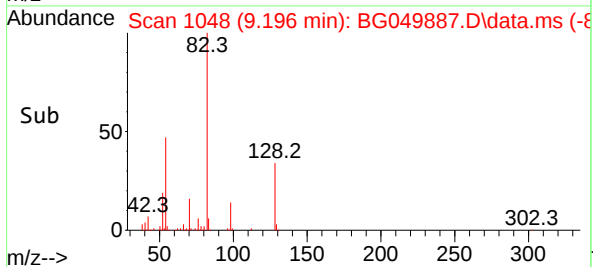
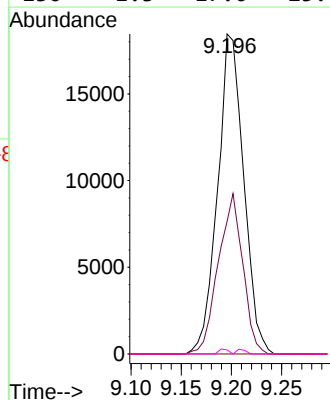
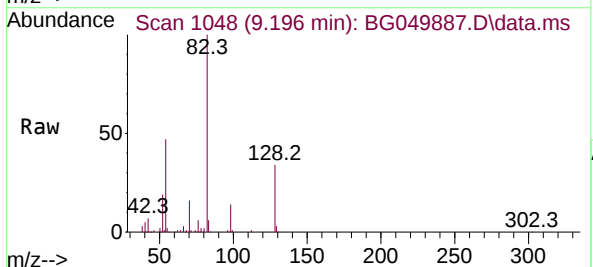
Instrument :  
BNA\_G  
ClientSampled :  
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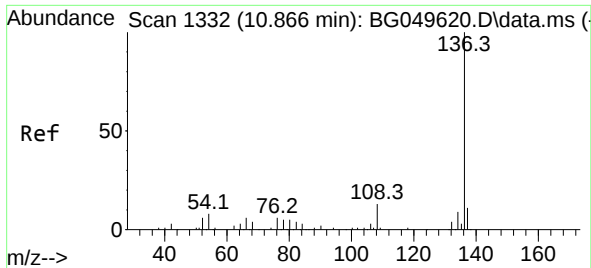
Tgt Ion: 99 Resp: 297800  
Ion Ratio Lower Upper  
99 100  
42 21.5 20.5 30.7  
71 47.6 41.5 62.3



#19  
n-Nitroso-di-n-propylamine  
Concen: 15.724 ng  
RT: 9.196 min Scan# 1048  
Delta R.T. 0.357 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

Tgt Ion: 70 Resp: 33283  
Ion Ratio Lower Upper  
70 100  
42 41.4 54.5 81.7#  
101 0.0 9.0 13.6#  
130 1.3 17.0 25.6#

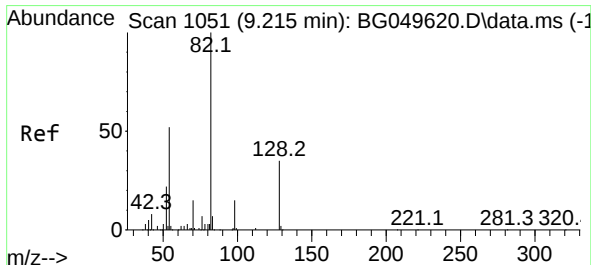
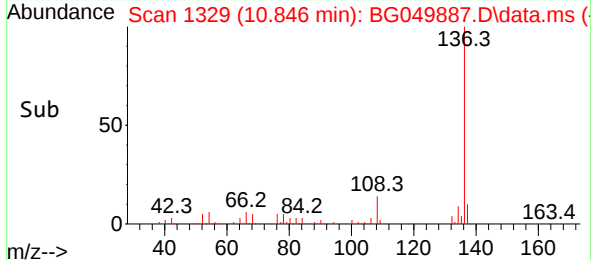
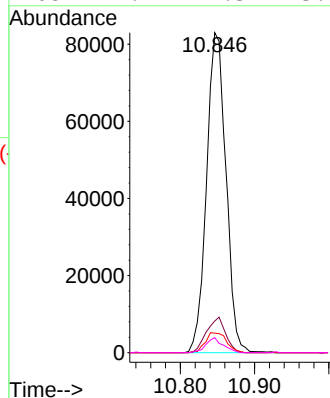
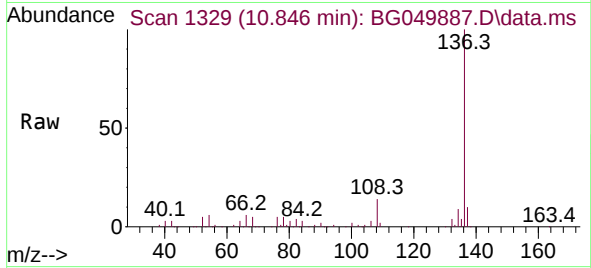




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.846 min Scan# 1329  
Delta R.T. -0.001 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

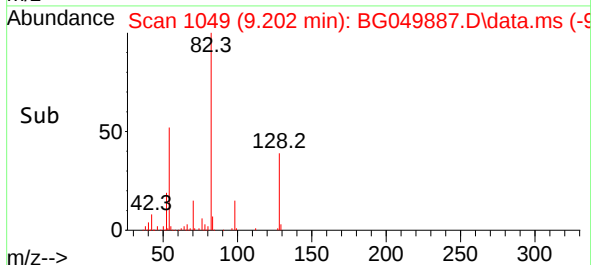
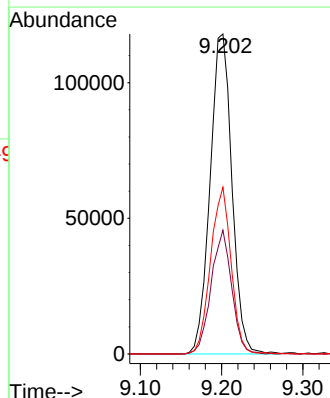
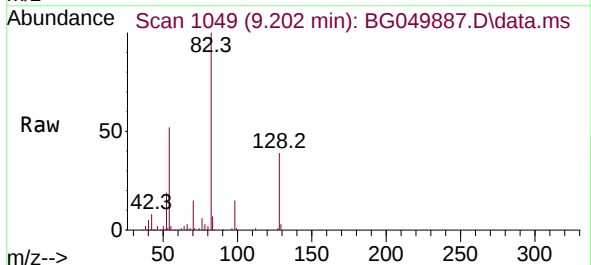
Instrument :  
BNA\_G  
ClientSampleId :  
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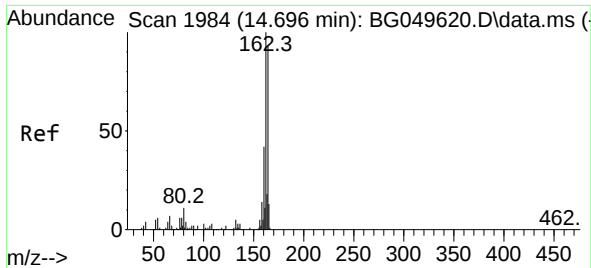
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 150614 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 9.9   | 8.2   | 12.2   |
| 54        | 6.1   | 5.5   | 8.3    |
| 68        | 4.7   | 2.3   | 3.5    |



#23  
Nitrobenzene-d5  
Concen: 64.846 ng  
RT: 9.202 min Scan# 1049  
Delta R.T. 0.005 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 220710 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 38.6  | 29.8  | 44.6   |
| 54        | 52.1  | 45.8  | 68.8   |

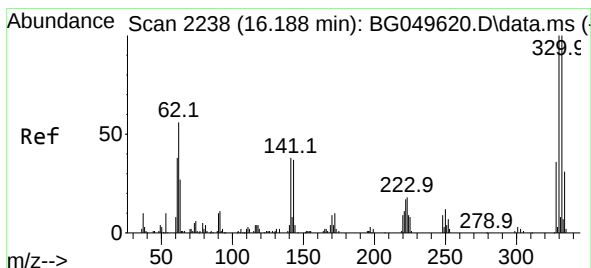
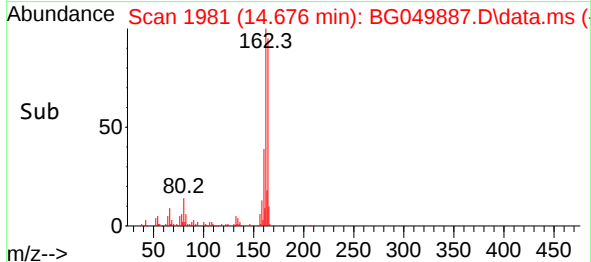
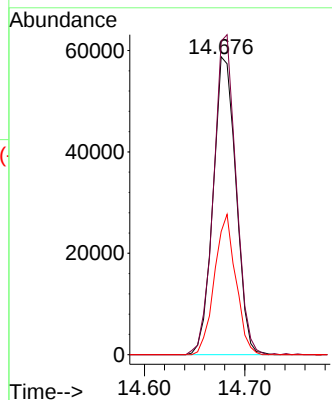
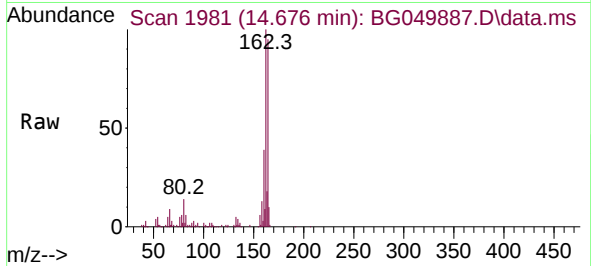




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.676 min Scan# 1981  
Delta R.T. -0.007 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

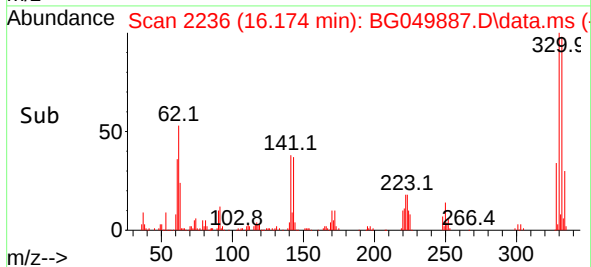
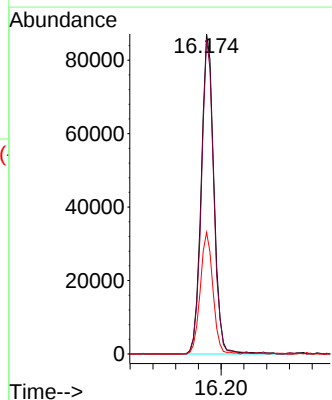
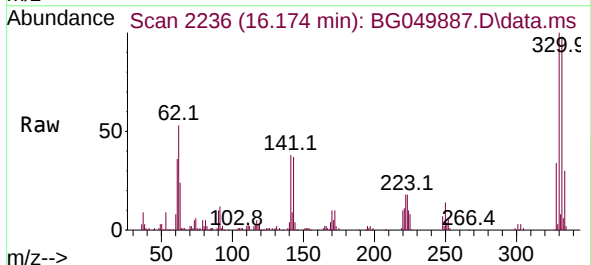
Instrument :  
BNA\_G  
ClientSampled :  
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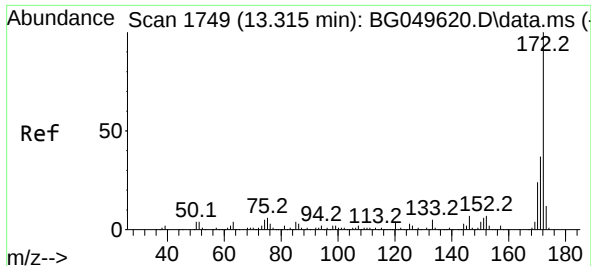
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 93153 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 105.2 | 81.4  | 122.0 |
| 160       | 41.3  | 34.9  | 52.3  |



#42  
2,4,6-Tribromophenol  
Concen: 98.440 ng  
RT: 16.174 min Scan# 2236  
Delta R.T. -0.001 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

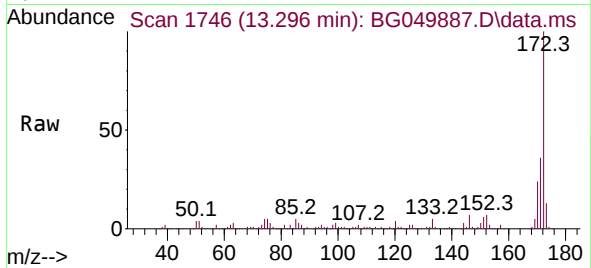
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 330   | Resp: | 134787 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.8  | 77.3  | 115.9  |
| 141       | 37.9  | 35.6  | 53.4   |



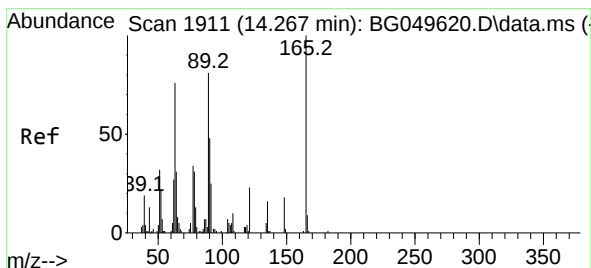
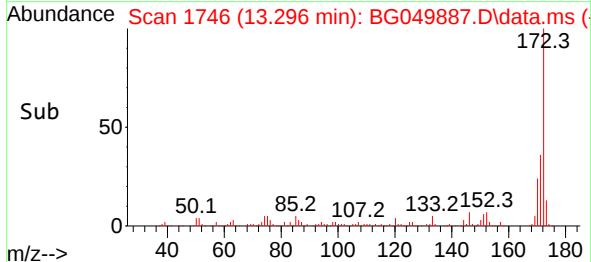
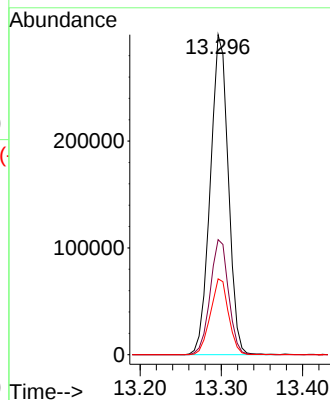


#45  
2-Fluorobiphenyl  
Concen: 72.031 ng  
RT: 13.296 min Scan# 1746  
Delta R.T. -0.007 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

Instrument :  
BNA\_G  
ClientSampleId :  
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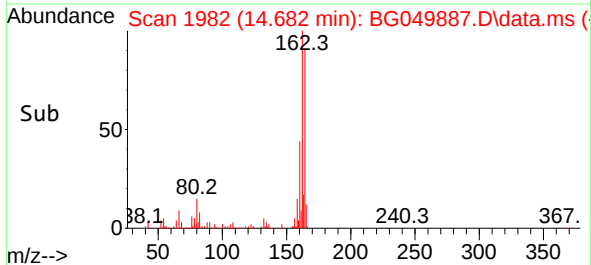
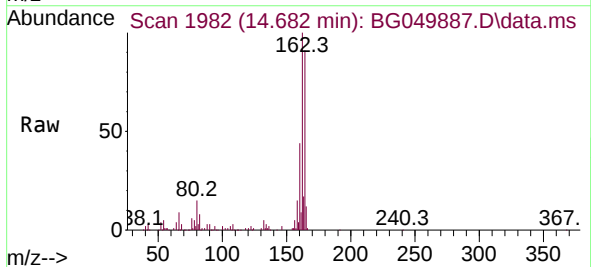
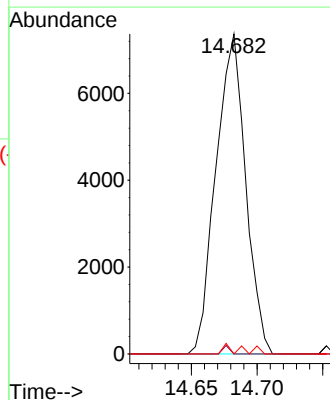


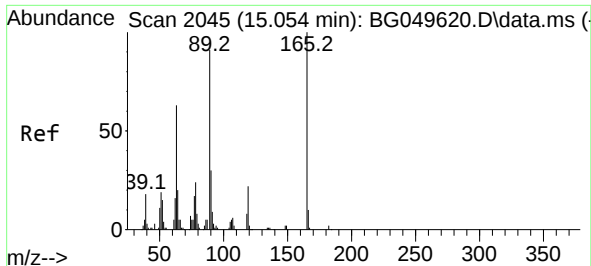
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Ion Ratio Lower Upper  
172 100  
171 36.0 28.6 43.0  
170 23.7 18.6 27.8



#51  
2,6-Dinitrotoluene  
Concen: 7.494 ng  
RT: 14.682 min Scan# 1982  
Delta R.T. 0.428 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

Tgt Ion:165 Resp: 11596  
Ion Ratio Lower Upper  
165 100  
63 0.0 63.3 94.9#  
89 0.0 63.4 95.0#

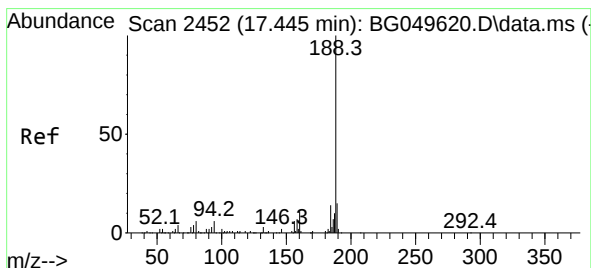
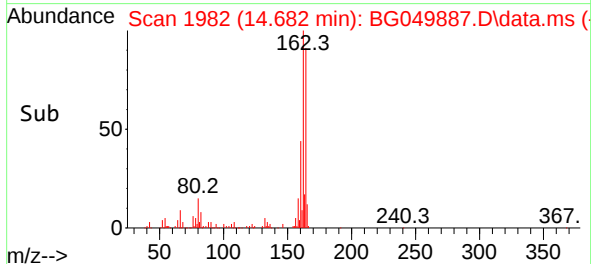
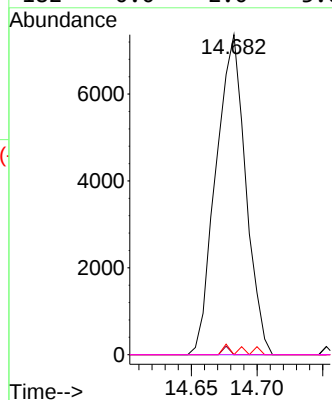
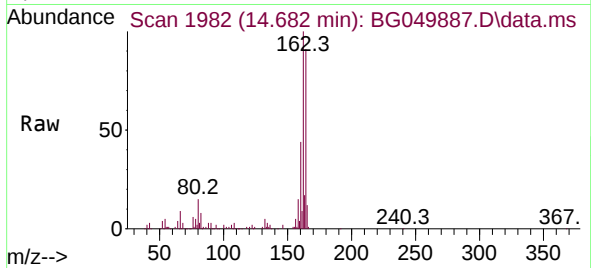




#57  
2,4-Dinitrotoluene  
Concen: 5.335 ng  
RT: 14.682 min Scan# 1982  
Delta R.T. -0.366 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

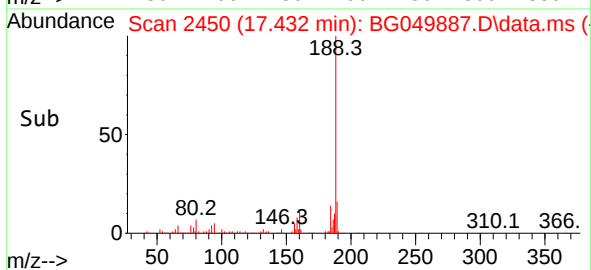
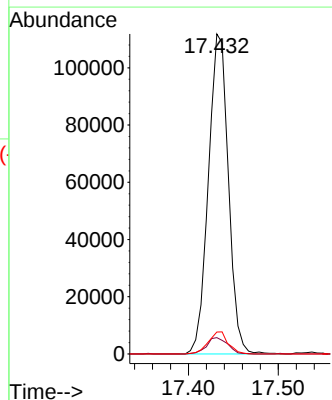
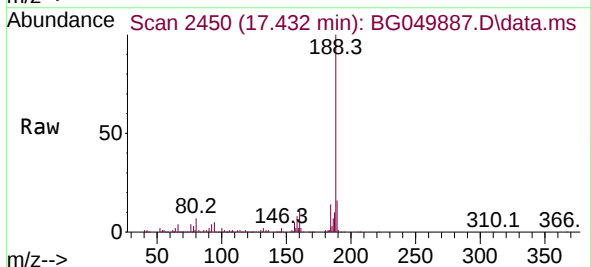
Instrument :  
BNA\_G  
ClientSampled :  
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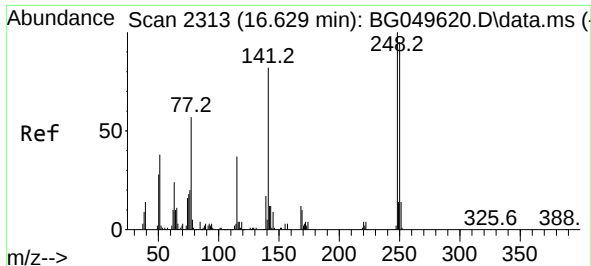
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|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 11596 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 48.0  | 72.0# |
| 89       | 0.0   | 65.4  | 98.0# |
| 182      | 0.0   | 2.0   | 3.0#  |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.432 min Scan# 2450  
Delta R.T. -0.007 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 172953 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 5.1   | 5.4   | 8.0#   |
| 80       | 6.8   | 3.7   | 5.5#   |

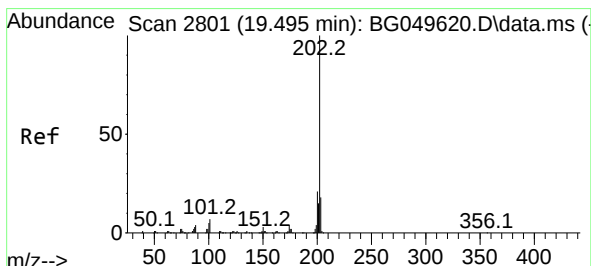
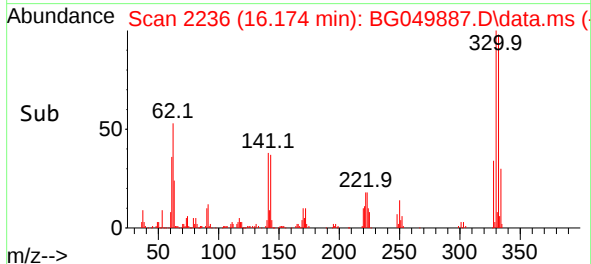
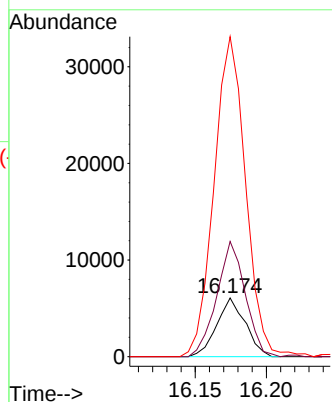
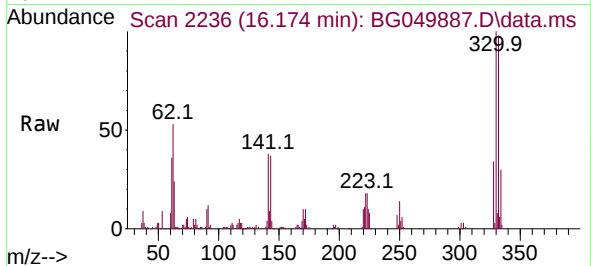




#67  
4-Bromophenyl-phenylether  
Concen: 4.174 ng  
RT: 16.174 min Scan# 2236  
Delta R.T. -0.442 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

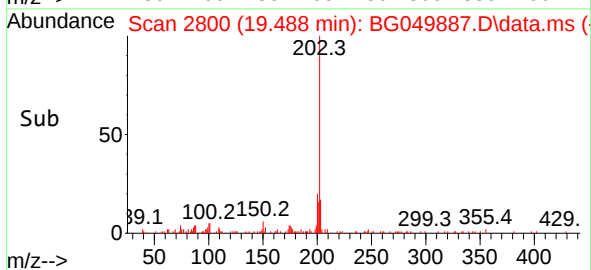
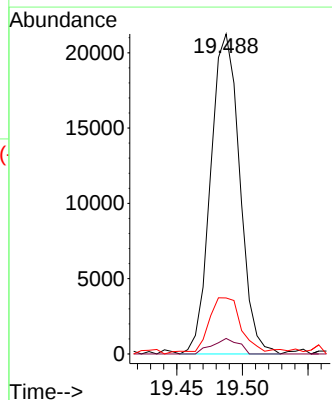
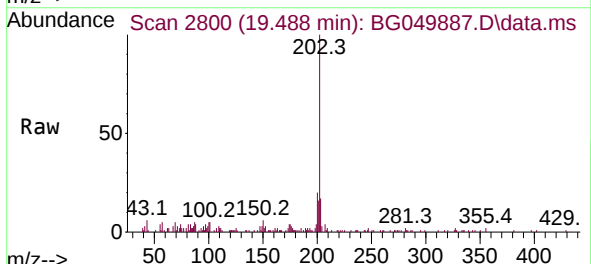
Instrument :  
BNA\_G  
ClientSampled :  
3

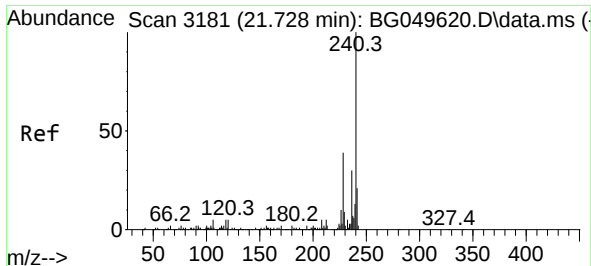
Tgt Ion:248 Resp: 8503  
Ion Ratio Lower Upper  
248 100  
250 195.9 76.1 114.1#  
141 544.3 65.4 98.2#



#75  
Fluoranthene  
Concen: 2.916 ng  
RT: 19.488 min Scan# 2800  
Delta R.T. -0.001 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

Tgt Ion:202 Resp: 32646  
Ion Ratio Lower Upper  
202 100  
101 4.8 0.0 24.7  
203 17.5 0.0 38.5

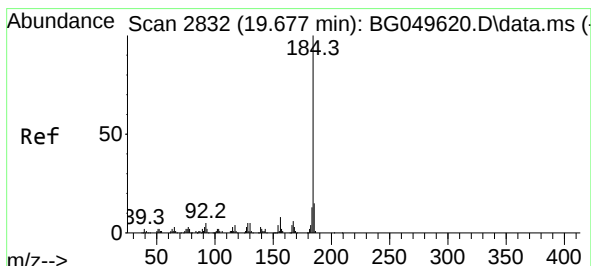
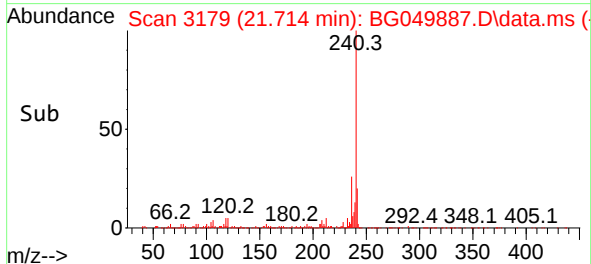
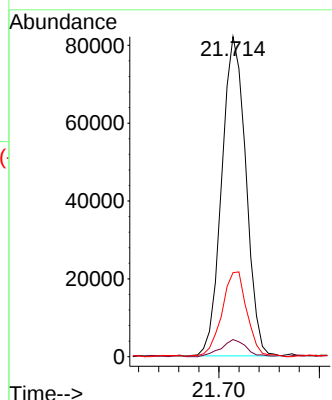
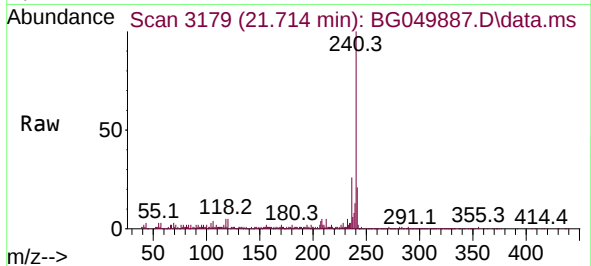




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.714 min Scan# 3179  
Delta R.T. -0.007 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

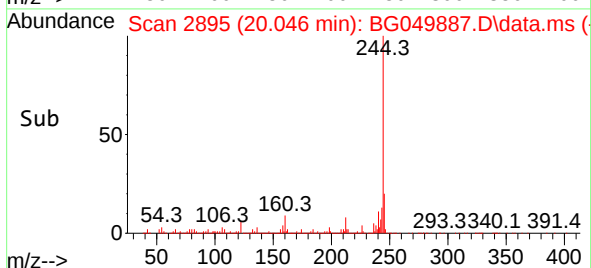
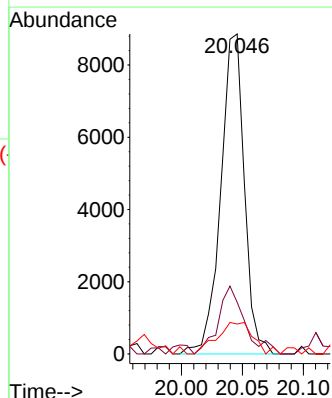
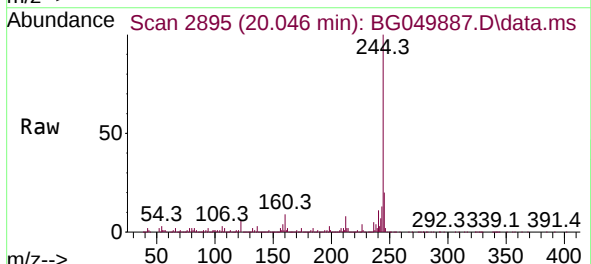
Instrument :  
BNA\_G  
ClientSampled :  
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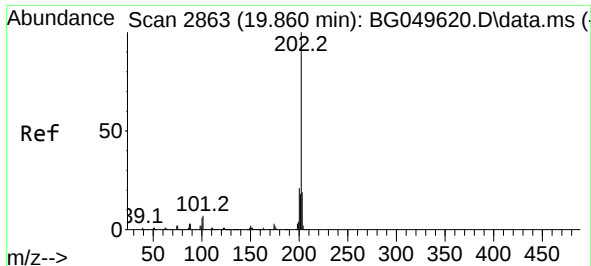
Tgt Ion:240 Resp: 136854  
Ion Ratio Lower Upper  
240 100  
120 5.3 4.2 6.2  
236 26.3 21.8 32.6



#77  
Benzidine  
Concen: 3.409 ng  
RT: 20.046 min Scan# 2895  
Delta R.T. 0.381 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

Tgt Ion:184 Resp: 11954  
Ion Ratio Lower Upper  
184 100  
185 16.1 10.7 16.1#  
183 9.3 9.4 14.0#

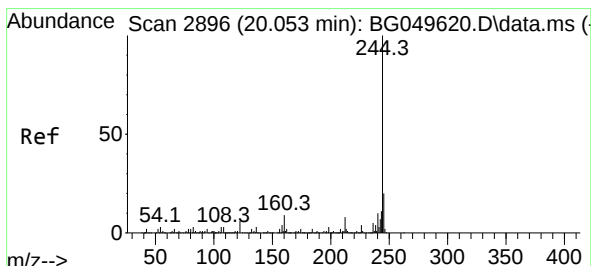
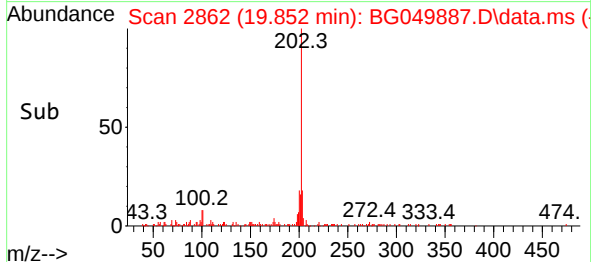
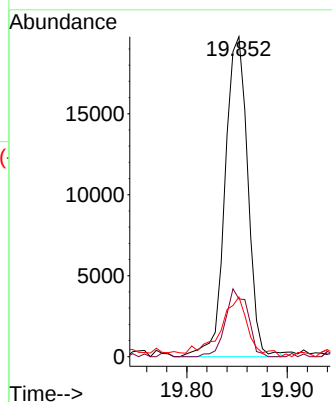
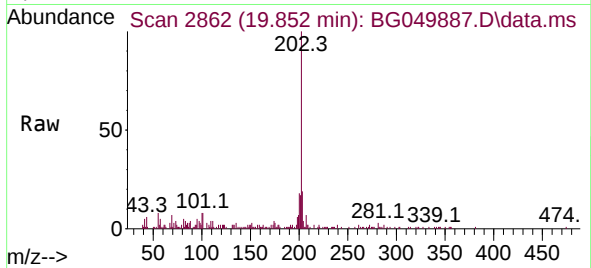




#78  
Pyrene  
Concen: 3.325 ng  
RT: 19.852 min Scan# 2862  
Delta R.T. -0.001 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

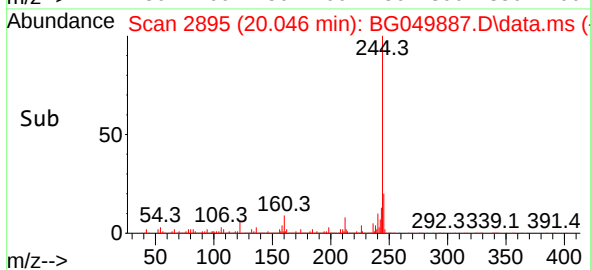
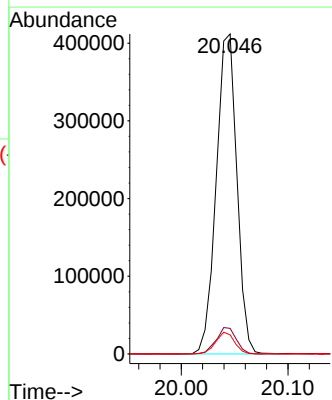
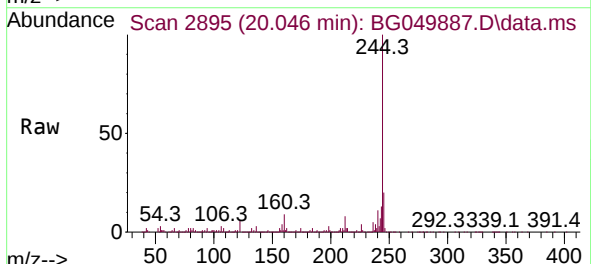
Instrument :  
BNA\_G  
ClientSampled :  
3

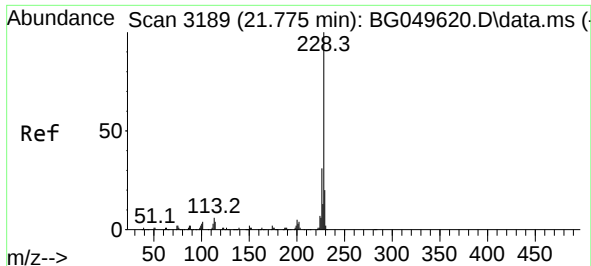
Tgt Ion:202 Resp: 31023  
Ion Ratio Lower Upper  
202 100  
200 18.0 15.8 23.8  
203 18.7 14.6 21.8



#79  
Terphenyl-d14  
Concen: 73.249 ng  
RT: 20.046 min Scan# 2895  
Delta R.T. -0.001 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

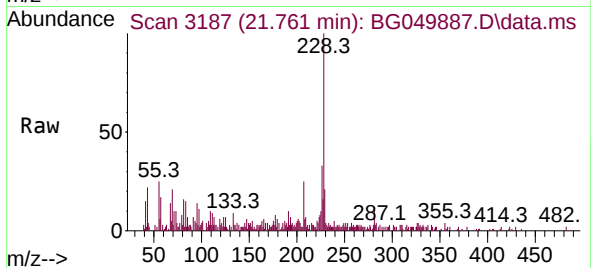
Tgt Ion:244 Resp: 551940  
Ion Ratio Lower Upper  
244 100  
212 8.0 6.9 10.3  
122 5.9 5.0 7.6



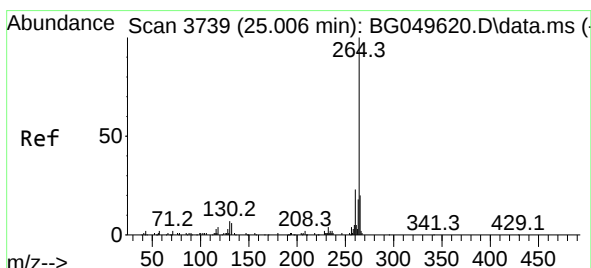
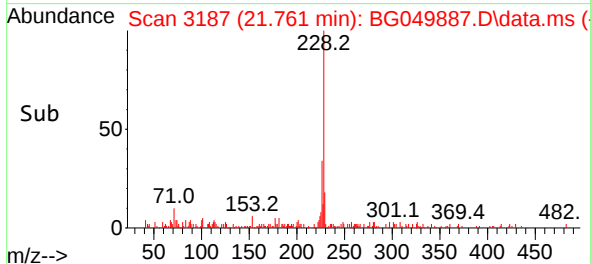
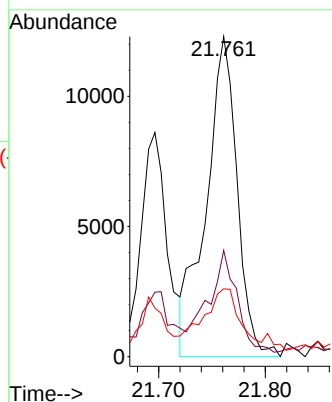


#83  
Chrysene  
Concen: 2.926 ng  
RT: 21.761 min Scan# 3187  
Delta R.T. -0.007 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

Instrument :  
BNA\_G  
ClientSampled :  
3

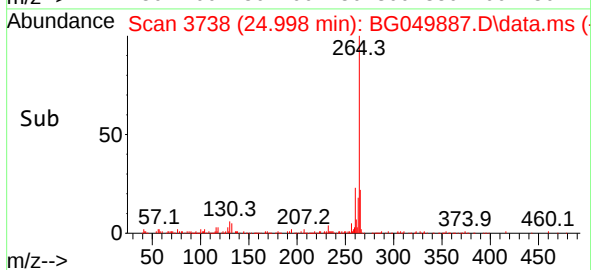
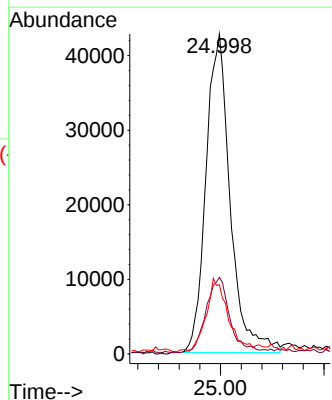
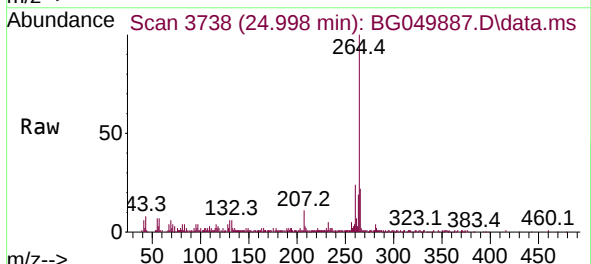


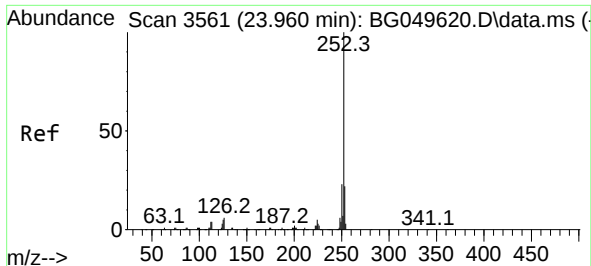
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 24927 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 33.2  | 23.1  | 34.7  |
| 229       | 21.2  | 15.3  | 22.9  |



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.998 min Scan# 3738  
Delta R.T. 0.010 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 138926 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.0  | 19.4  | 29.2   |
| 265       | 21.6  | 16.9  | 25.3   |

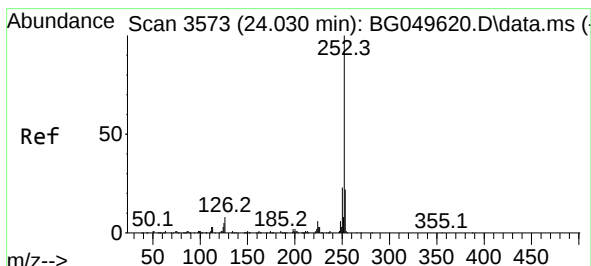
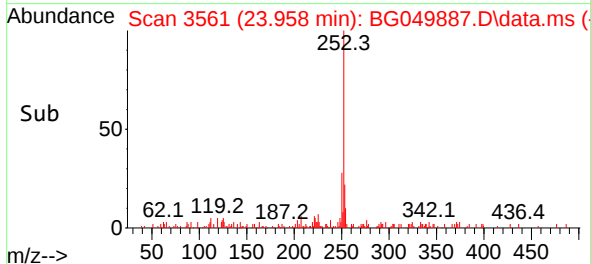
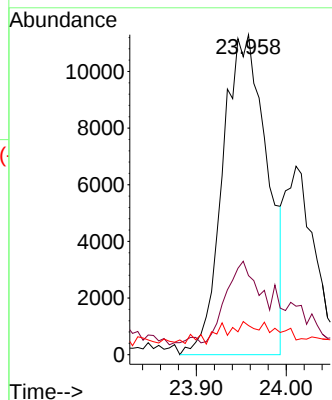
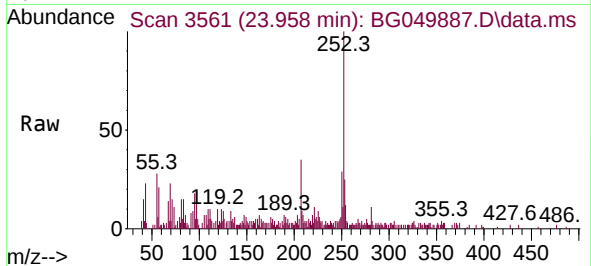




#88  
Benzo(b)fluoranthene  
Concen: 4.252 ng  
RT: 23.958 min Scan# 3561  
Delta R.T. 0.005 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

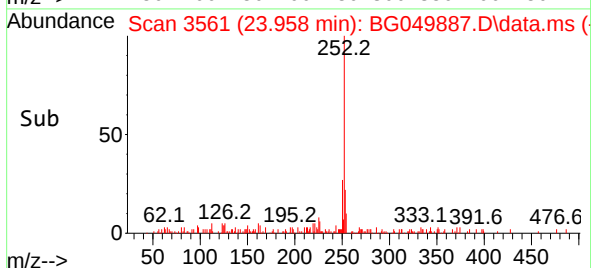
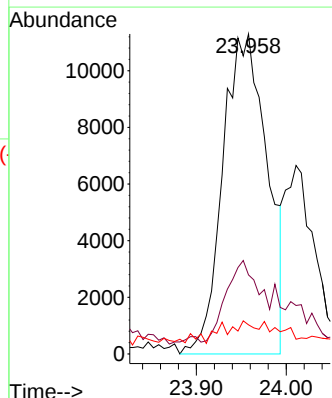
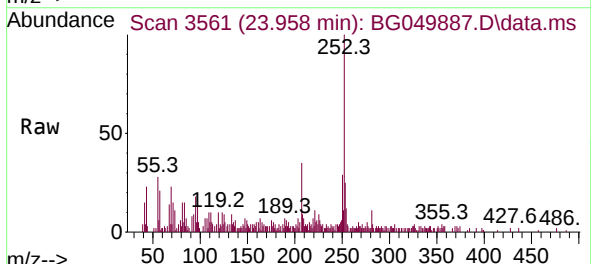
Instrument :  
BNA\_G  
ClientSampled :  
3

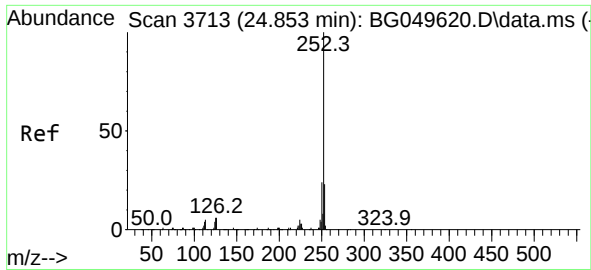
Tgt Ion:252 Resp: 38742  
Ion Ratio Lower Upper  
252 100  
253 24.7 16.2 24.4#  
125 9.1 3.0 4.4#



#89  
Benzo(k)fluoranthene  
Concen: 4.558 ng  
RT: 23.958 min Scan# 3561  
Delta R.T. -0.060 min  
Lab File: BG049887.D  
Acq: 17 Aug 2021 21:16

Tgt Ion:252 Resp: 38742  
Ion Ratio Lower Upper  
252 100  
253 24.7 18.0 27.0  
125 9.1 3.1 4.7#





#90

Benzo(a)pyrene

Concen: 2.662 ng

RT: 24.833 min Scan# 3710

Delta R.T. -0.007 min

Lab File: BG049887.D

Acq: 17 Aug 2021 21:16

Instrument :

BNA\_G

ClientSampleId :

3

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:252 | Resp: | 21947      |
| Ion Ratio   | Lower | Upper      |
| 252         | 100   |            |
| 253         | 25.8  | 16.6 25.0# |
| 125         | 11.7  | 3.5 5.3#   |

