

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082121\  
 Data File : BG049925.D  
 Acq On : 21 Aug 2021 1:37  
 Operator : CG/JU  
 Sample : M3394-13  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SWCS-02-0002

Quant Time: Aug 21 05:22:40 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG080321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Aug 21 05:13:22 2021  
 Response via : Initial Calibration

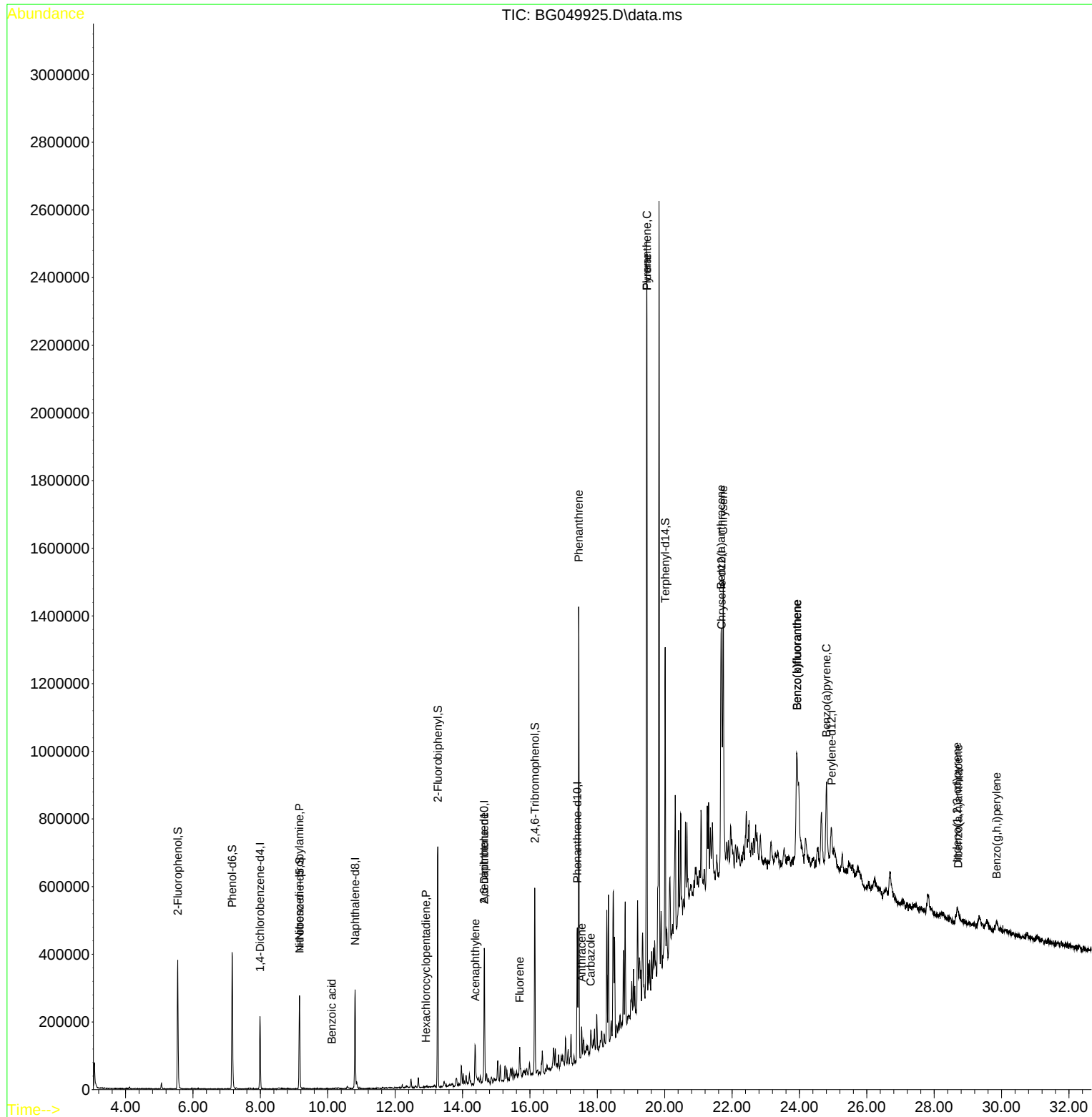
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.990  | 152  | 60057    | 20.000  | ng    | 0.01     |
| 21) Naphthalene-d8            | 10.810 | 136  | 247552   | 20.000  | ng    | # 0.01   |
| 39) Acenaphthene-d10          | 14.646 | 164  | 147622   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.407 | 188  | 254912   | 20.000  | ng    | # 0.02   |
| 76) Chrysene-d12              | 21.690 | 240  | 212416   | 20.000  | ng    | 0.03     |
| 86) Perylene-d12              | 24.956 | 264  | 105947   | 20.000  | ng    | # 0.07   |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.547  | 112  | 171265   | 51.120  | ng    | 0.02     |
| 7) Phenol-d6                  | 7.162  | 99   | 234066   | 46.154  | ng    | 0.02     |
| 23) Nitrobenzene-d5           | 9.165  | 82   | 173925   | 31.090  | ng    | 0.01     |
| 42) 2,4,6-Tribromophenol      | 16.144 | 330  | 99523    | 45.866  | ng    | 0.01     |
| 45) 2-Fluorobiphenyl          | 13.266 | 172  | 359438   | 35.429  | ng    | 0.01     |
| 79) Terphenyl-d14             | 20.015 | 244  | 392730   | 33.579  | ng    | 0.02     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.159  | 70   | 26139    | 7.702   | ng    | # 67     |
| 32) Benzoic acid              | 10.117 | 122  | 57       | 4.968   | ng    | # 1      |
| 41) Hexachlorocyclopentadiene | 12.913 | 237  | 58       | 3.564   | ng    | # 31     |
| 49) Acenaphthylene            | 14.376 | 152  | 135004   | 10.143  | ng    | 96       |
| 51) 2,6-Dinitrotoluene        | 14.646 | 165  | 22010    | 8.975   | ng    | # 13     |
| 58) Fluorene                  | 15.698 | 166  | 38883    | 3.678   | ng    | 100      |
| 71) Phenanthrene              | 17.448 | 178  | 834273   | 62.207  | ng    | 98       |
| 72) Anthracene                | 17.536 | 178  | 67009    | 5.088   | ng    | 97       |
| 73) Carbazole                 | 17.807 | 167  | 39330    | 3.153   | ng    | 96       |
| 75) Fluoranthene              | 19.469 | 202  | 1451514  | 87.953  | ng    | 96       |
| 78) Pyrene                    | 19.469 | 202  | 1451514  | 100.233 | ng    | 94       |
| 81) Benzo(a)anthracene        | 21.672 | 228  | 474633   | 34.311  | ng    | 93       |
| 83) Chrysene                  | 21.737 | 228  | 753239   | 56.963  | ng    | 94       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.680 | 276  | 94155    | 12.323  | ng    | # 79     |
| 88) Benzo(b)fluoranthene      | 23.928 | 252  | 803491   | 115.634 | ng    | # 89     |
| 89) Benzo(k)fluoranthene      | 23.928 | 252  | 803491   | 123.969 | ng    | # 94     |
| 90) Benzo(a)pyrene            | 24.803 | 252  | 281922   | 44.832  | ng    | # 90     |
| 91) Dibenzo(a,h)anthracene    | 28.715 | 278  | 21818    | 3.389   | ng    | # 55     |
| 92) Benzo(g,h,i)perylene      | 29.855 | 276  | 69090    | 10.953  | ng    | 93       |
| -----                         |        |      |          |         |       |          |

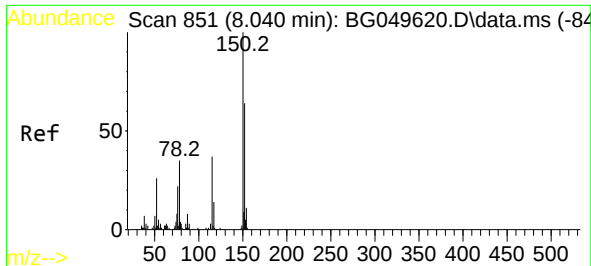
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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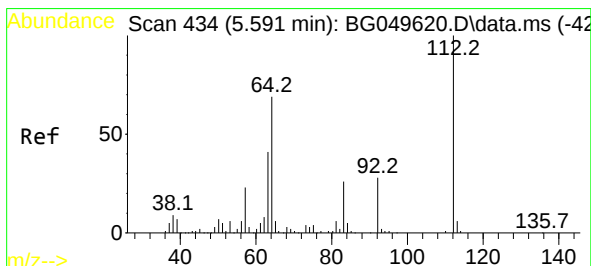
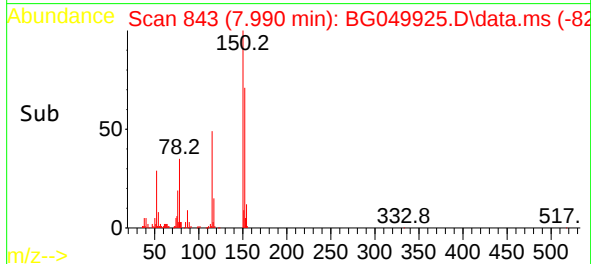
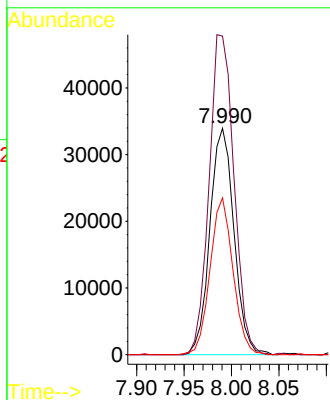
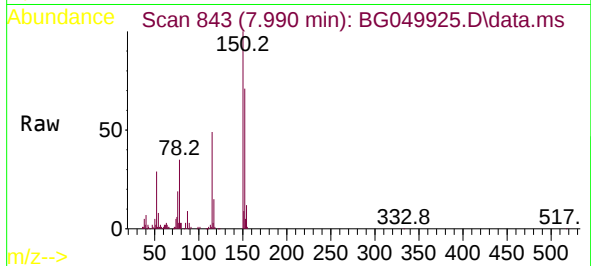




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.990 min Scan# 843  
Delta R.T. 0.013 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

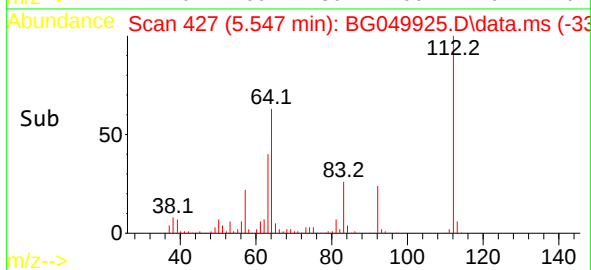
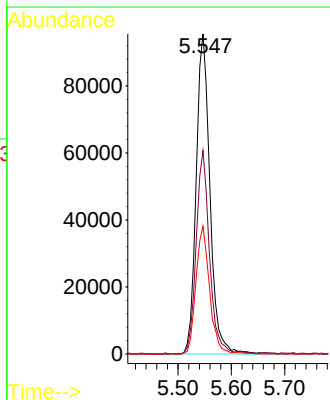
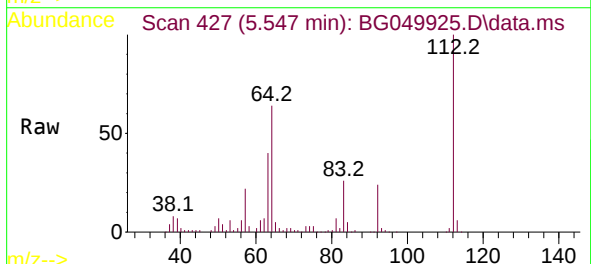
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BNA\_G  
ClientSampleId :  
SWCS-02-0002

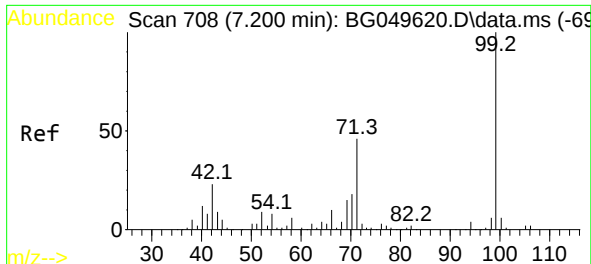
Tgt Ion:152 Resp: 60057  
Ion Ratio Lower Upper  
152 100  
150 140.7 119.4 179.0  
115 69.3 60.2 90.4



#5  
2-Fluorophenol  
Concen: 51.120 ng  
RT: 5.547 min Scan# 427  
Delta R.T. 0.019 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:112 Resp: 171265  
Ion Ratio Lower Upper  
112 100  
64 63.6 46.7 70.1  
63 39.9 35.3 52.9

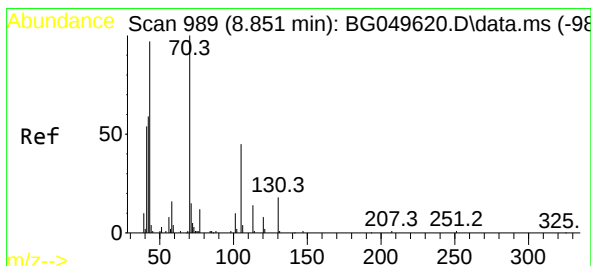
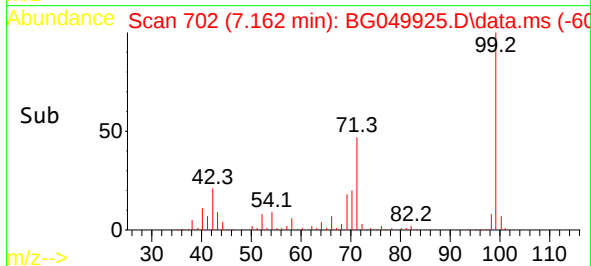
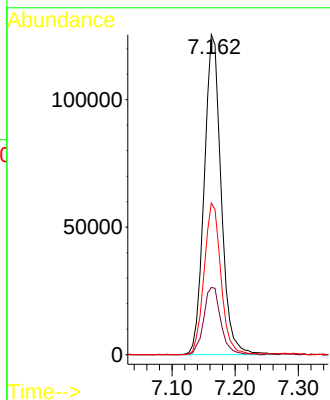
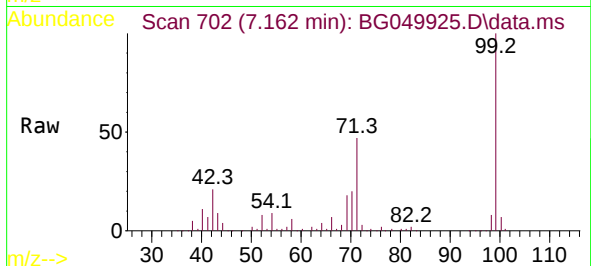




#7  
Phenol-d6  
Concen: 46.154 ng  
RT: 7.162 min Scan# 702  
Delta R.T. 0.019 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

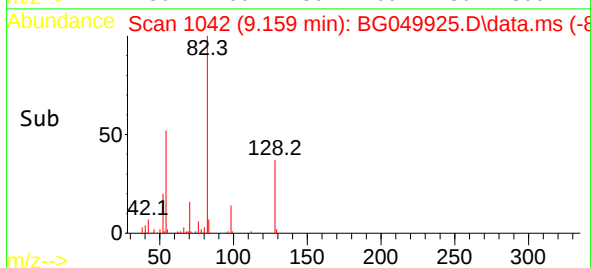
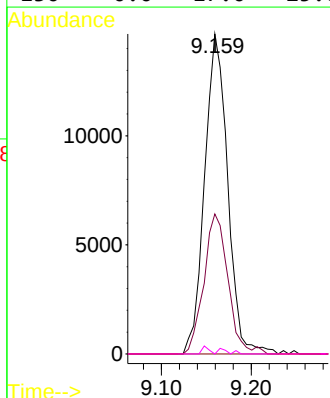
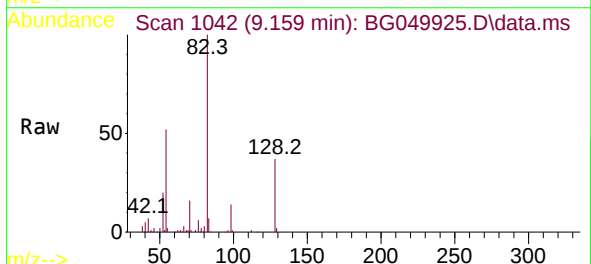
Instrument :  
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ClientSampleId :  
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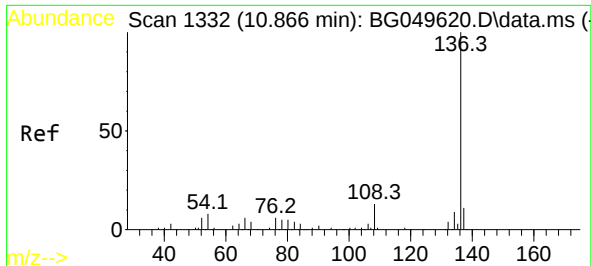
Tgt Ion: 99 Resp: 234066  
Ion Ratio Lower Upper  
99 100  
42 21.0 20.5 30.7  
71 47.4 41.5 62.3



#19  
n-Nitroso-di-n-propylamine  
Concen: 7.702 ng  
RT: 9.159 min Scan# 1042  
Delta R.T. 0.372 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion: 70 Resp: 26139  
Ion Ratio Lower Upper  
70 100  
42 43.8 54.5 81.7#  
101 0.0 9.0 13.6#  
130 0.0 17.0 25.6#

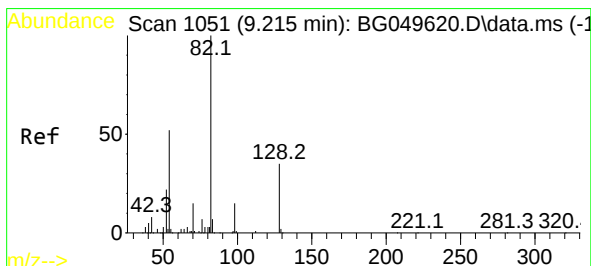
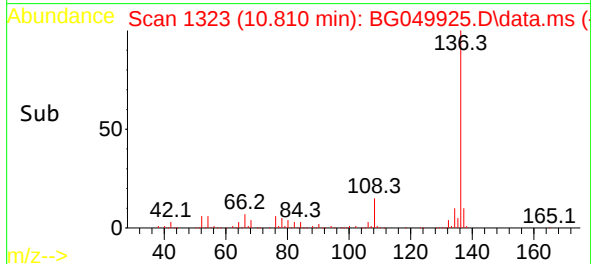
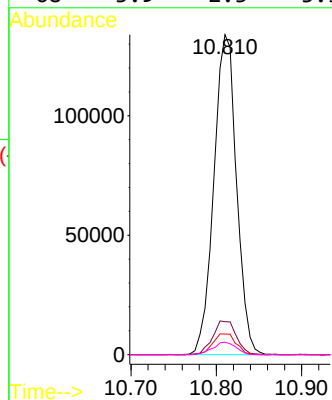
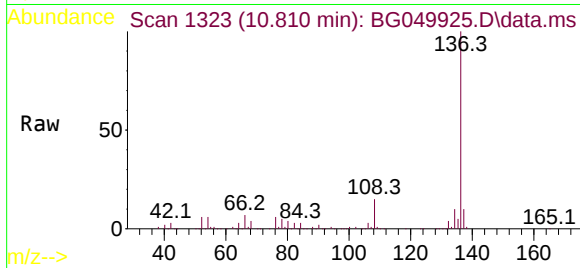




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.810 min Scan# 1323  
Delta R.T. 0.013 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

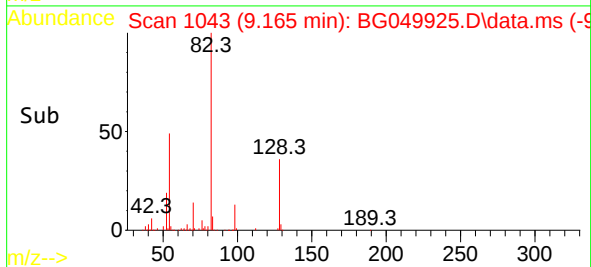
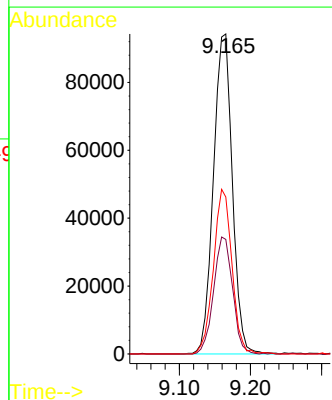
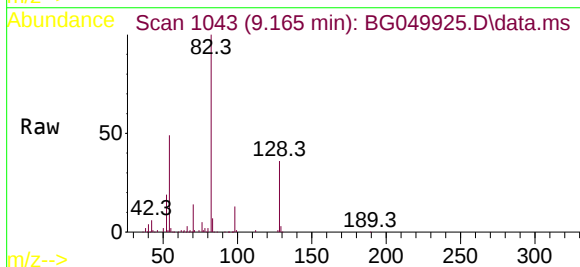
Instrument :  
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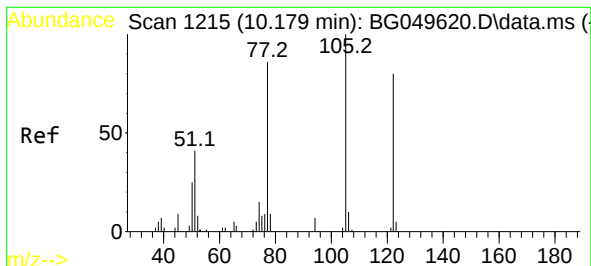
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 247552 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 10.3  | 8.2   | 12.2   |
| 54        | 6.5   | 5.5   | 8.3    |
| 68        | 3.9   | 2.3   | 3.5#   |



#23  
Nitrobenzene-d5  
Concen: 31.090 ng  
RT: 9.165 min Scan# 1043  
Delta R.T. 0.013 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 173925 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 35.8  | 29.8  | 44.6   |
| 54        | 49.1  | 45.8  | 68.8   |

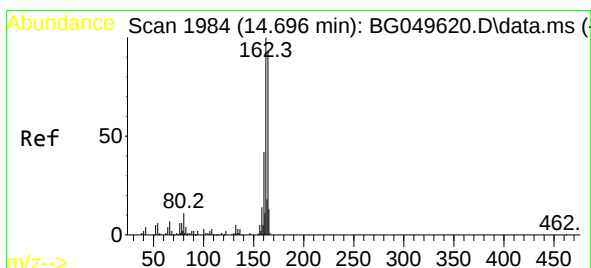
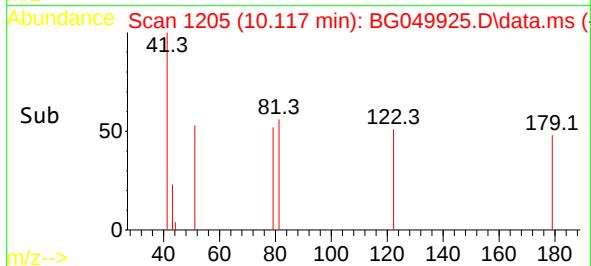
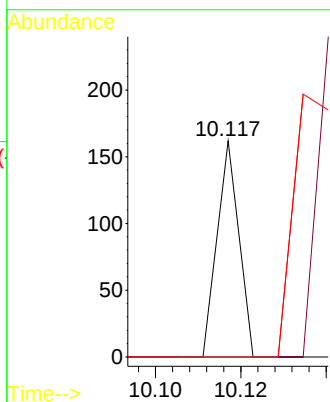
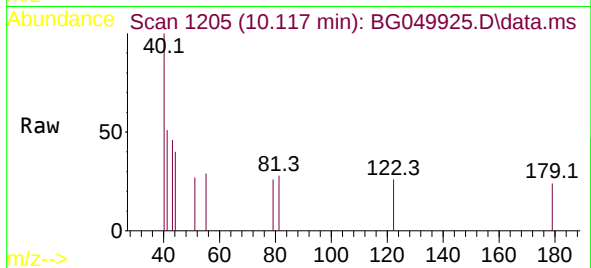




#32  
Benzoic acid  
Concen: 4.968 ng  
RT: 10.117 min Scan# 1205  
Delta R.T. -0.004 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

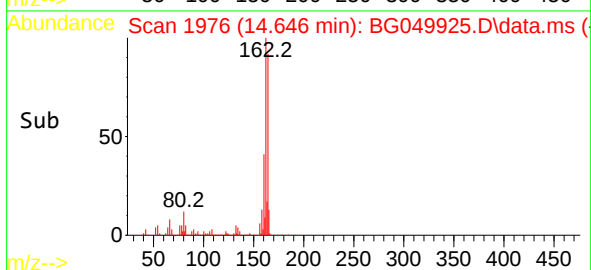
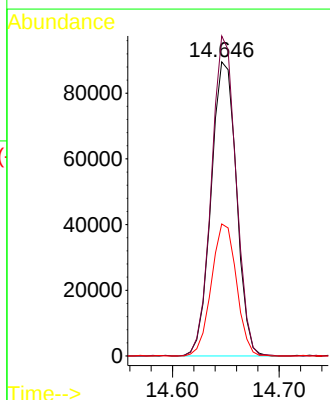
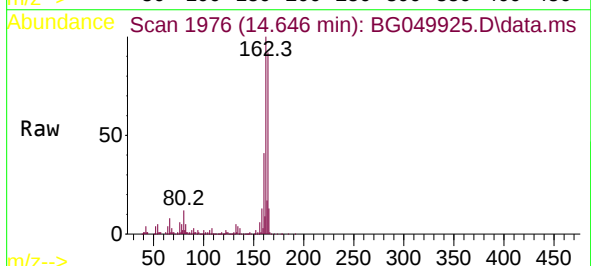
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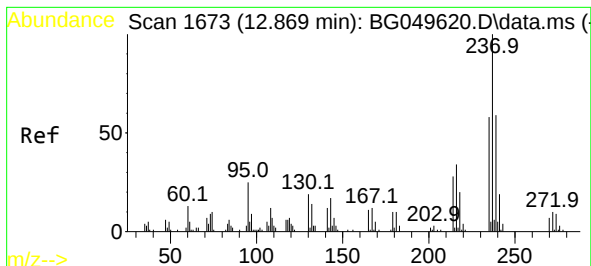
Tgt Ion:122 Resp: 57  
Ion Ratio Lower Upper  
122 100  
105 0.0 92.3 132.3#  
77 0.0 66.5 106.5#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.646 min Scan# 1976  
Delta R.T. 0.007 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:164 Resp: 147622  
Ion Ratio Lower Upper  
164 100  
162 108.8 81.4 122.0  
160 44.9 34.9 52.3

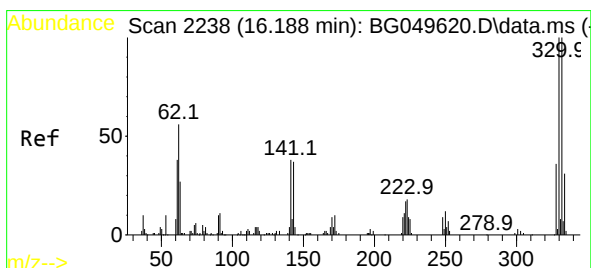
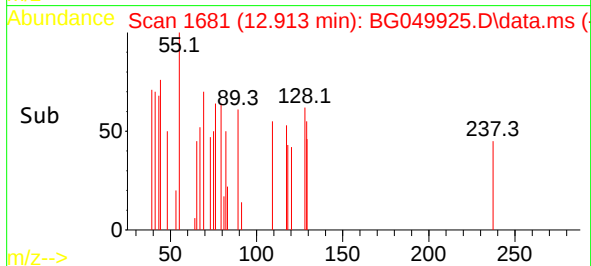
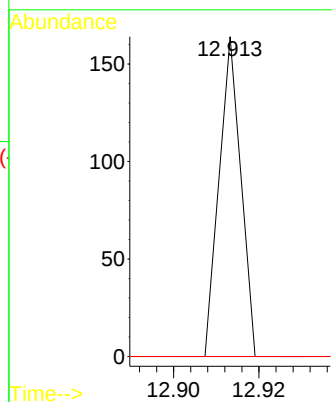
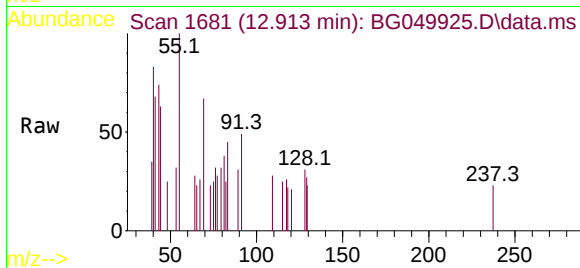




#41  
Hexachlorocyclopentadiene  
Concen: 3.564 ng  
RT: 12.913 min Scan# 1681  
Delta R.T. 0.113 min  
Lab File: BG049925.D  
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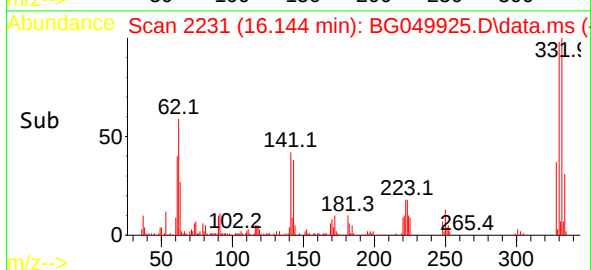
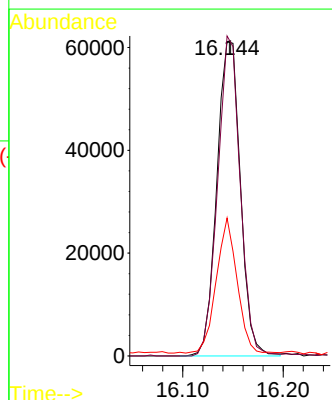
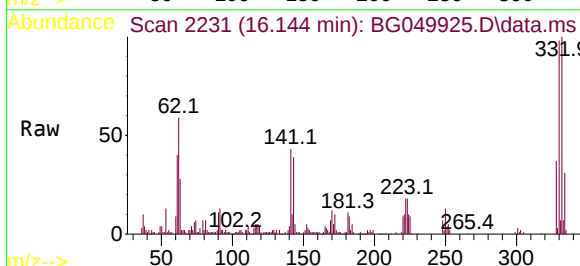
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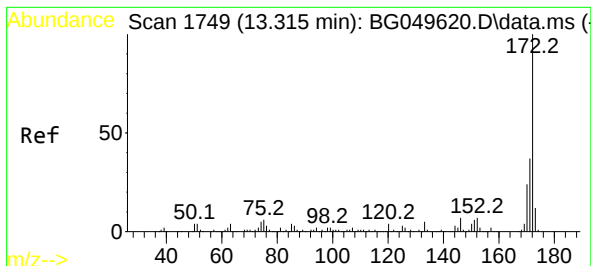
Tgt Ion:237 Resp: 58  
Ion Ratio Lower Upper  
237 100  
235 0.0 36.6 76.6#  
272 0.0 0.0 32.5



#42  
2,4,6-Tribromophenol  
Concen: 45.866 ng  
RT: 16.144 min Scan# 2231  
Delta R.T. 0.013 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:330 Resp: 99523  
Ion Ratio Lower Upper  
330 100  
332 98.0 77.3 115.9  
141 37.8 35.6 53.4

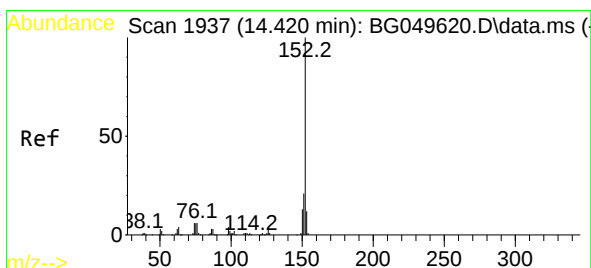
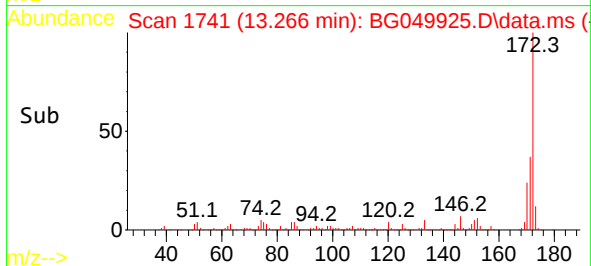
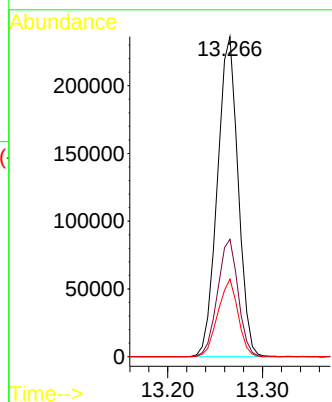
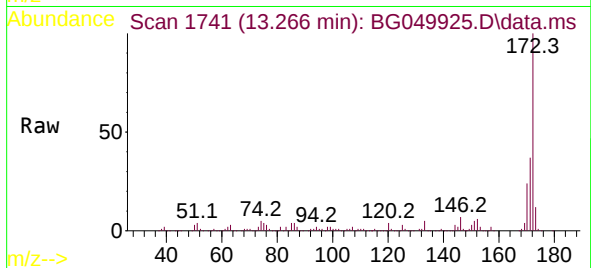




#45  
2-Fluorobiphenyl  
Concen: 35.429 ng  
RT: 13.266 min Scan# 1741  
Delta R.T. 0.013 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

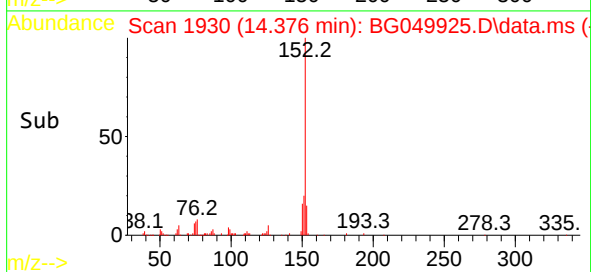
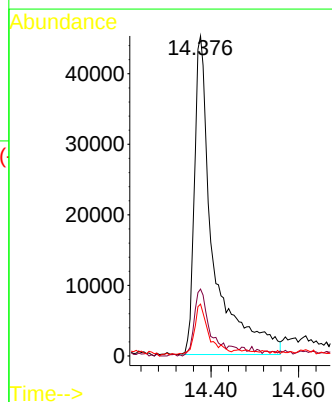
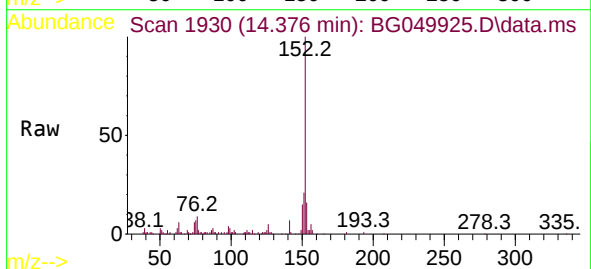
Instrument :  
BNA\_G  
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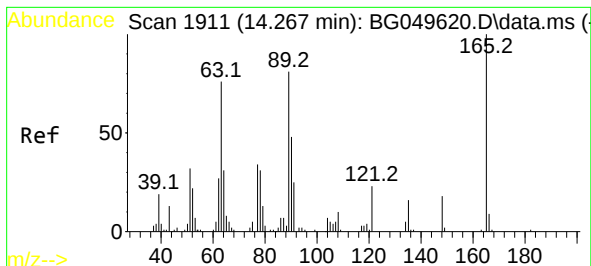
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Ion Ratio Lower Upper  
172 100  
171 36.7 28.6 43.0  
170 24.3 18.6 27.8



#49  
Acenaphthylene  
Concen: 10.143 ng  
RT: 14.376 min Scan# 1930  
Delta R.T. 0.019 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:152 Resp: 135004  
Ion Ratio Lower Upper  
152 100  
151 20.9 18.2 27.4  
153 16.2 11.7 17.5

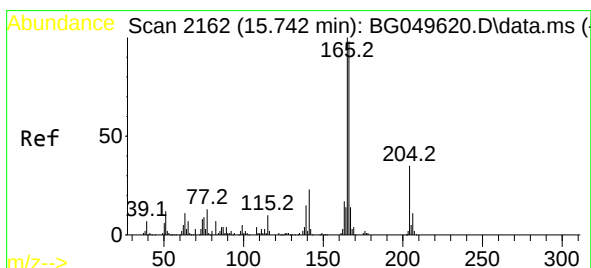
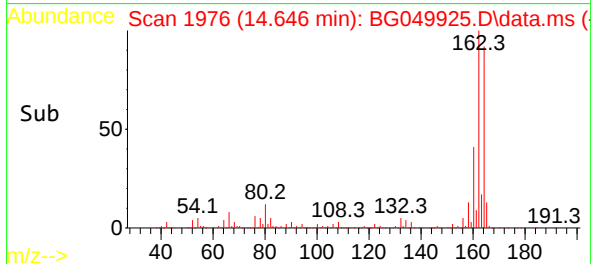
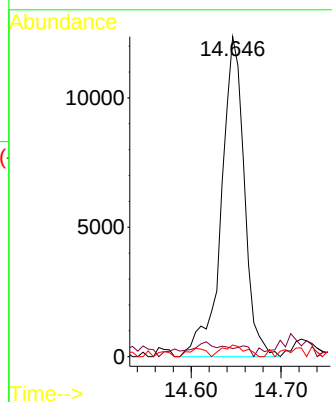
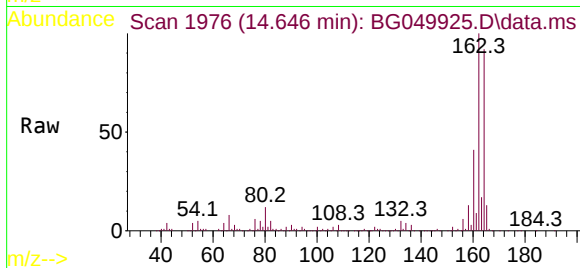




#51  
2,6-Dinitrotoluene  
Concen: 8.975 ng  
RT: 14.646 min Scan# 1976  
Delta R.T. 0.436 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

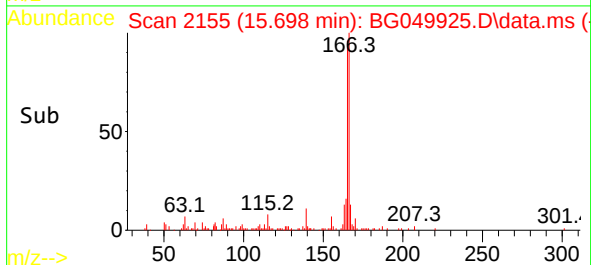
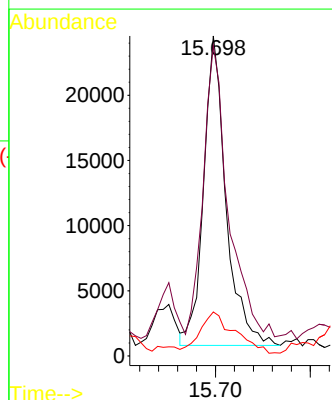
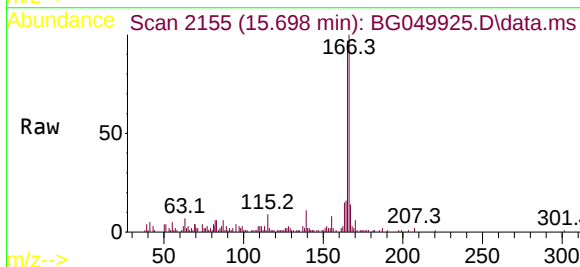
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-02-0002

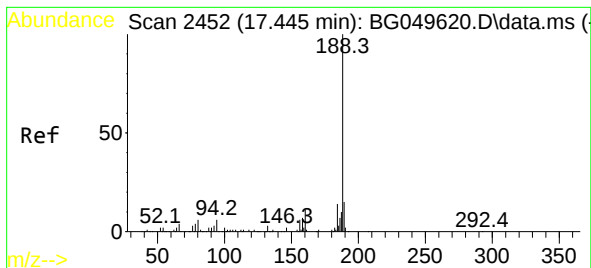
Tgt Ion:165 Resp: 22010  
Ion Ratio Lower Upper  
165 100  
63 2.5 63.3 94.9#  
89 3.7 63.4 95.0#



#58  
Fluorene  
Concen: 3.678 ng  
RT: 15.698 min Scan# 2155  
Delta R.T. 0.013 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:166 Resp: 38883  
Ion Ratio Lower Upper  
166 100  
165 97.0 77.7 116.5  
167 13.8 10.8 16.2

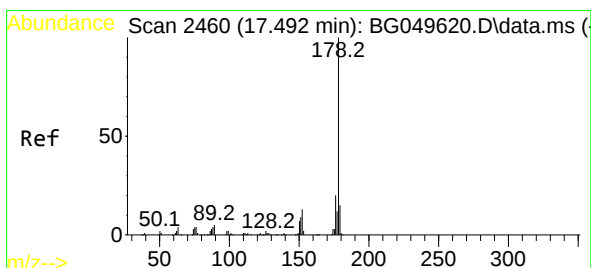
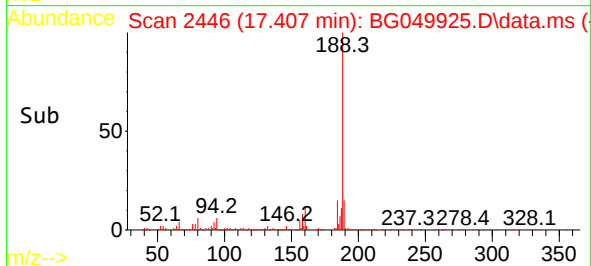
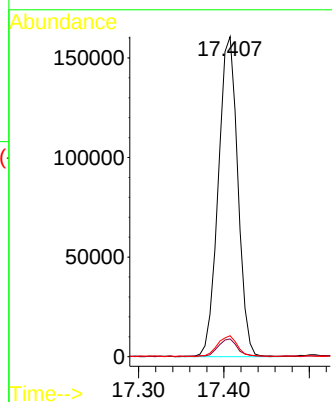
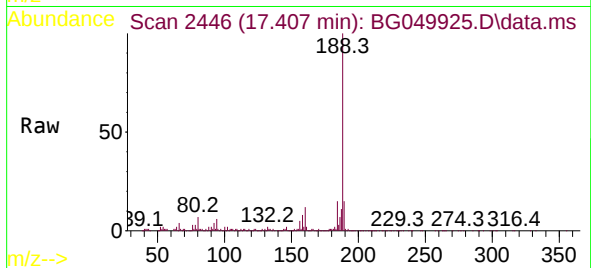




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.407 min Scan# 2446  
Delta R.T. 0.019 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

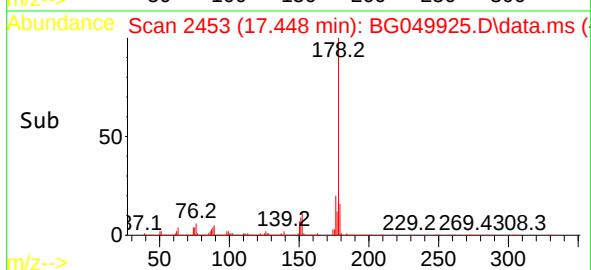
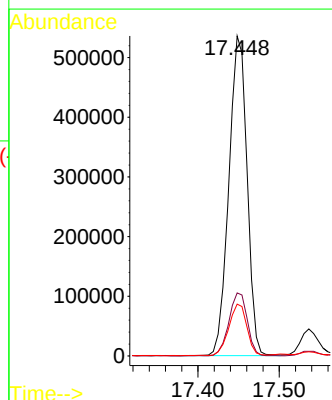
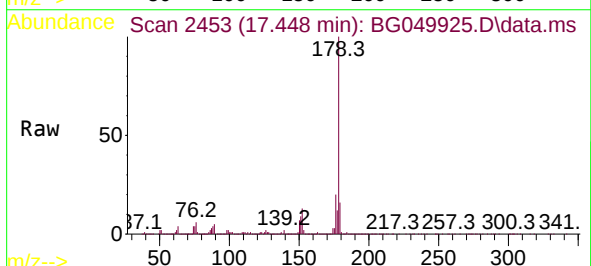
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-02-0002

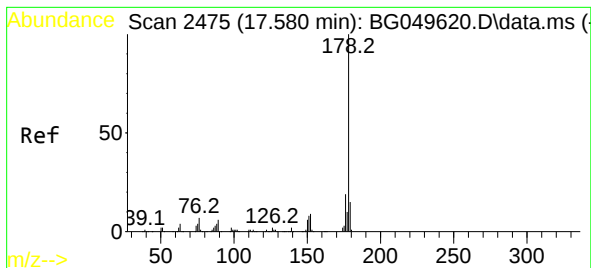
Tgt Ion:188 Resp: 254912  
Ion Ratio Lower Upper  
188 100  
94 5.6 5.4 8.0  
80 6.5 3.7 5.5#



#71  
Phenanthrene  
Concen: 62.207 ng  
RT: 17.448 min Scan# 2453  
Delta R.T. 0.019 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:178 Resp: 834273  
Ion Ratio Lower Upper  
178 100  
176 19.7 16.0 24.0  
179 16.2 14.2 21.4

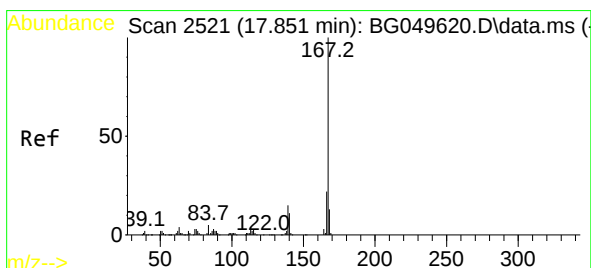
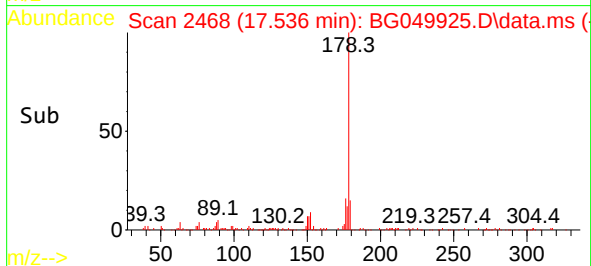
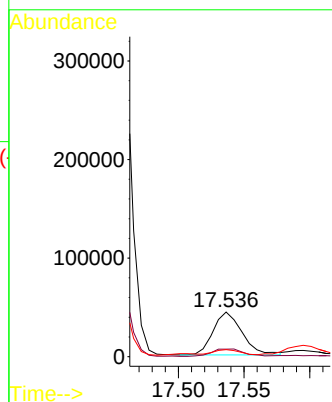
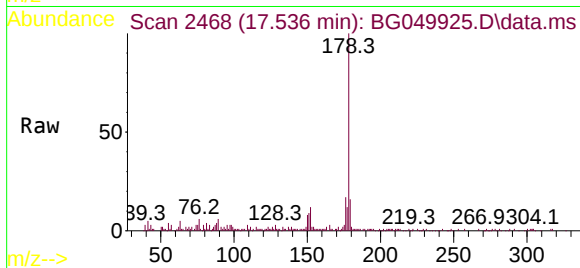




#72  
 Anthracene  
 Concen: 5.088 ng  
 RT: 17.536 min Scan# 2468  
 Delta R.T. 0.013 min  
 Lab File: BG049925.D  
 Acq: 21 Aug 2021 1:37

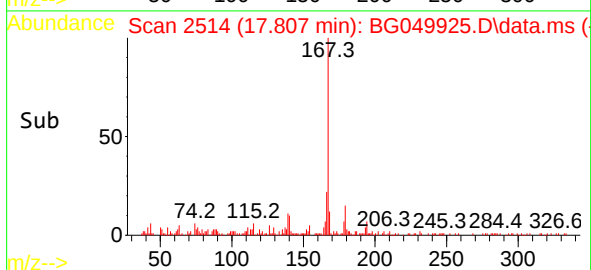
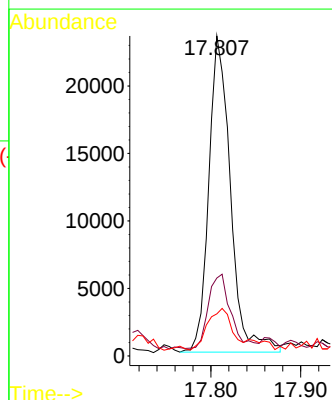
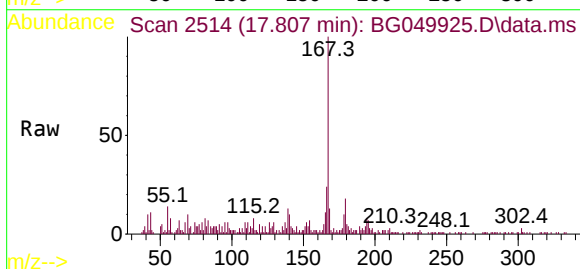
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SWCS-02-0002

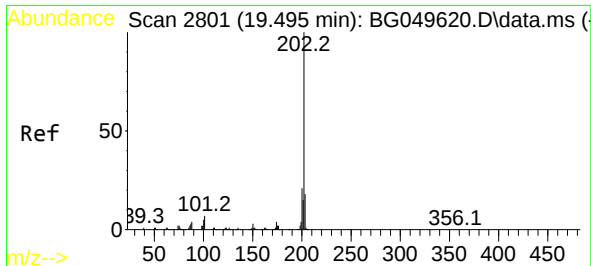
Tgt Ion:178 Resp: 67009  
 Ion Ratio Lower Upper  
 178 100  
 176 17.0 14.6 21.8  
 179 15.7 13.4 20.0



#73  
 Carbazole  
 Concen: 3.153 ng  
 RT: 17.807 min Scan# 2514  
 Delta R.T. 0.013 min  
 Lab File: BG049925.D  
 Acq: 21 Aug 2021 1:37

Tgt Ion:167 Resp: 39330  
 Ion Ratio Lower Upper  
 167 100  
 166 24.3 17.4 26.2  
 139 13.1 10.7 16.1

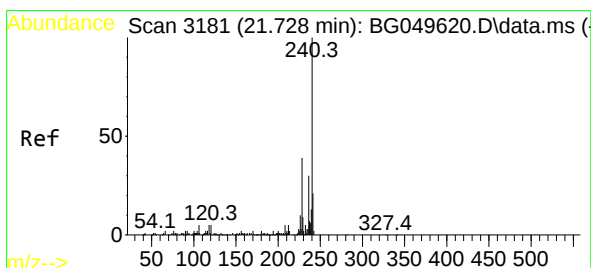
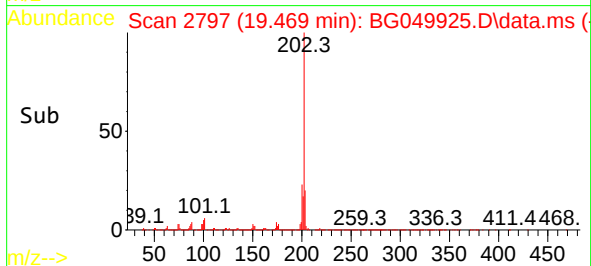
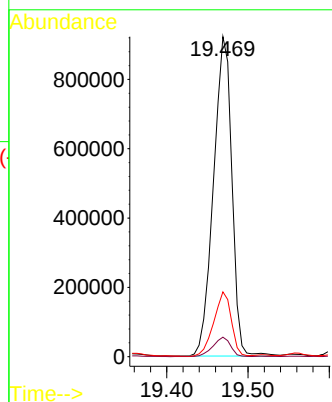
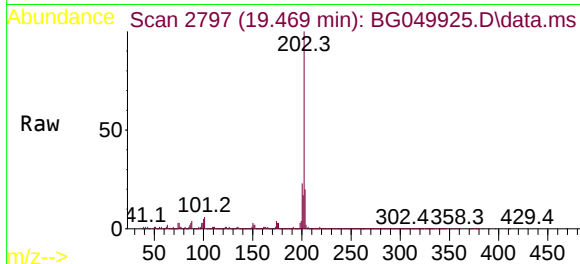




#75  
Fluoranthene  
Concen: 87.953 ng  
RT: 19.469 min Scan# 2797  
Delta R.T. 0.025 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

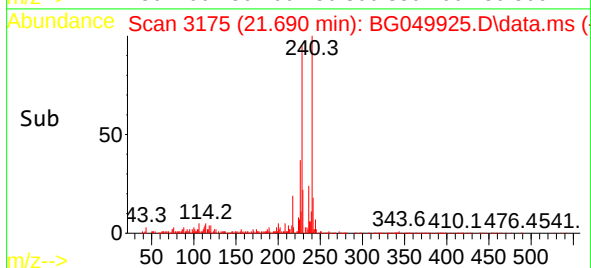
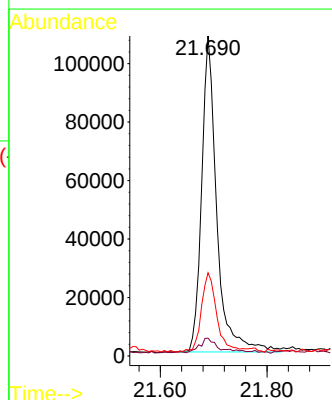
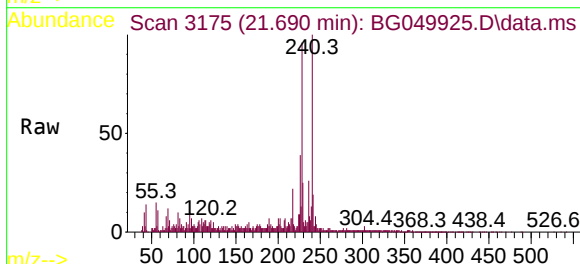
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-02-0002

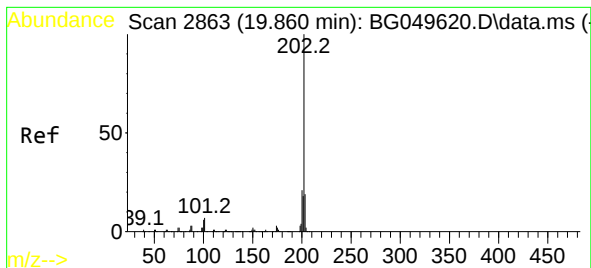
Tgt Ion:202 Resp: 1451514  
Ion Ratio Lower Upper  
202 100  
101 6.1 0.0 24.7  
203 20.3 0.0 38.5



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.690 min Scan# 3175  
Delta R.T. 0.031 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:240 Resp: 212416  
Ion Ratio Lower Upper  
240 100  
120 5.5 4.2 6.2  
236 26.0 21.8 32.6





#78

Pyrene

Concen: 100.233 ng

RT: 19.469 min Scan# 2797

Delta R.T. -0.333 min

Lab File: BG049925.D

Acq: 21 Aug 2021 1:37

Tgt Ion:202 Resp: 1451514

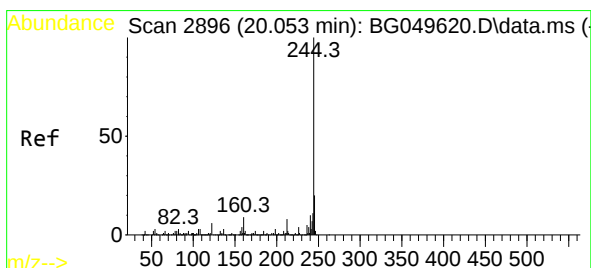
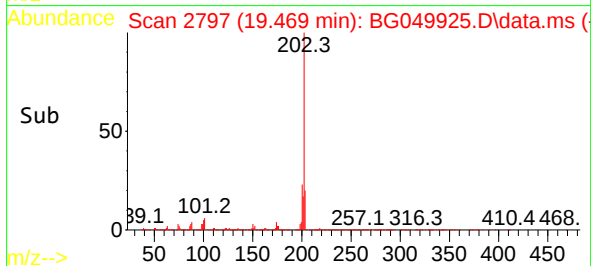
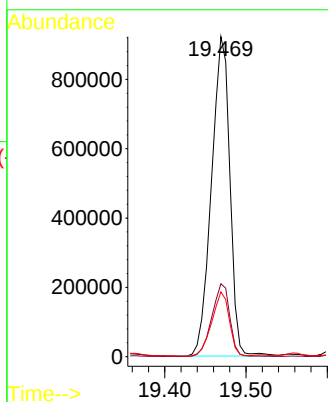
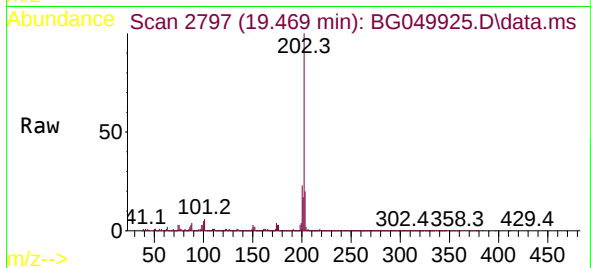
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 22.8  | 15.8  | 23.8  |
| 203 | 20.3  | 14.6  | 21.8  |

Instrument :

BNA\_G

ClientSampleId :

SWCS-02-0002



#79

Terphenyl-d14

Concen: 33.579 ng

RT: 20.015 min Scan# 2890

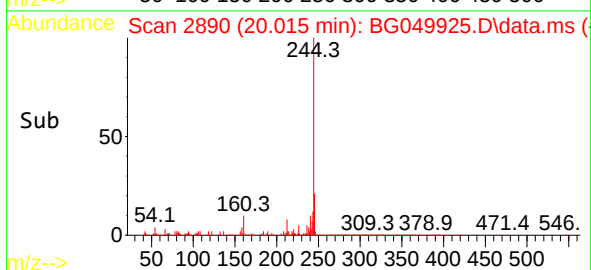
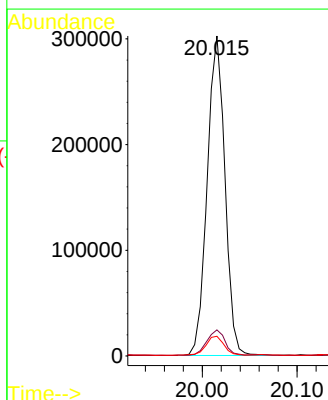
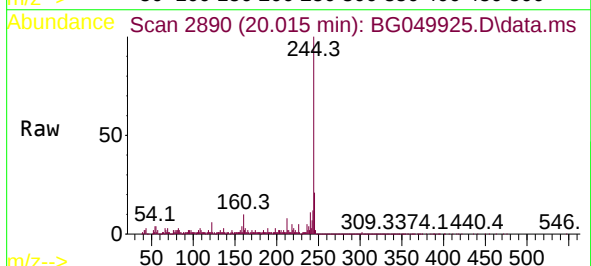
Delta R.T. 0.019 min

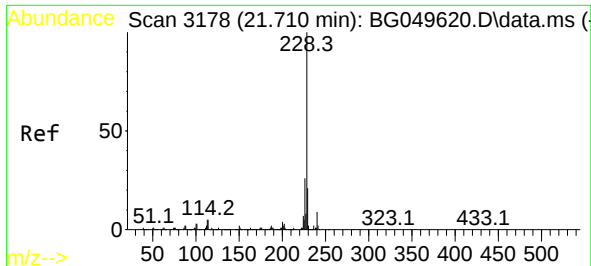
Lab File: BG049925.D

Acq: 21 Aug 2021 1:37

Tgt Ion:244 Resp: 392730

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.2   | 6.9   | 10.3  |
| 122 | 6.2   | 5.0   | 7.6   |

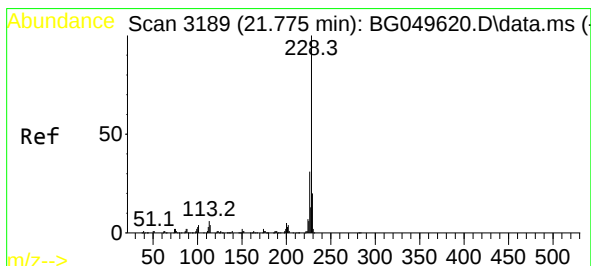
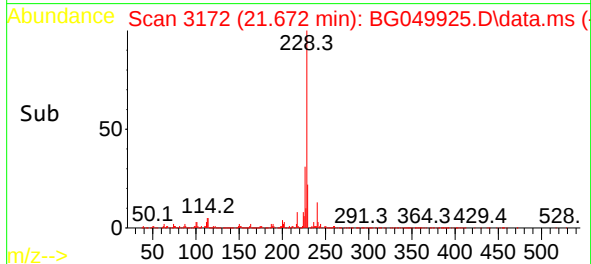
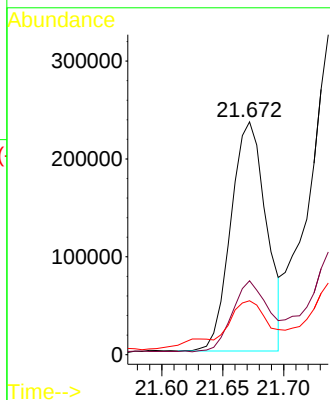
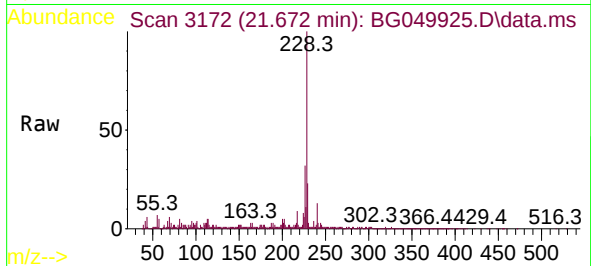




#81  
Benzo(a)anthracene  
Concen: 34.311 ng  
RT: 21.672 min Scan# 3172  
Delta R.T. 0.031 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

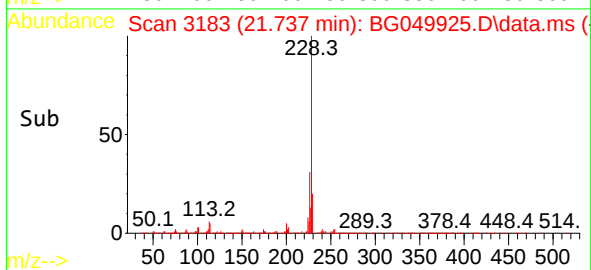
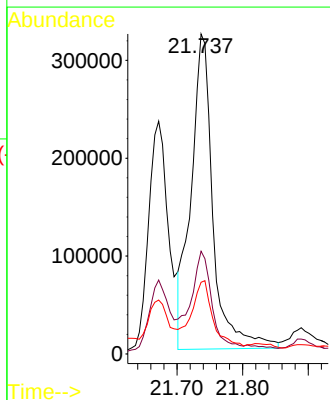
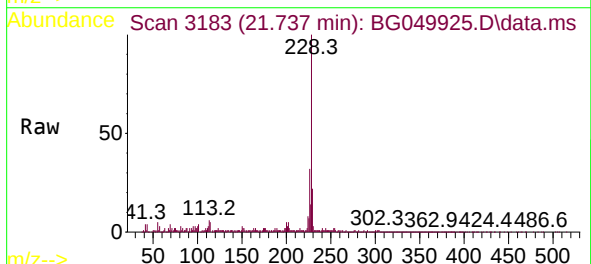
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-02-0002

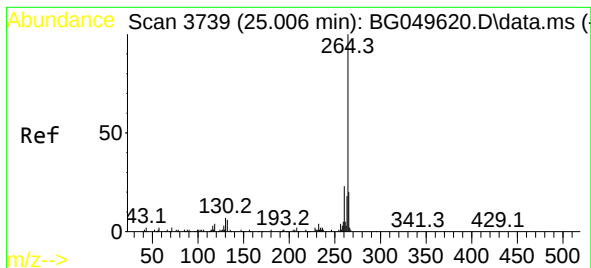
Tgt Ion:228 Resp: 474633  
Ion Ratio Lower Upper  
228 100  
226 31.7 22.7 34.1  
229 23.1 16.0 24.0



#83  
Chrysene  
Concen: 56.963 ng  
RT: 21.737 min Scan# 3183  
Delta R.T. 0.031 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:228 Resp: 753239  
Ion Ratio Lower Upper  
228 100  
226 32.1 23.1 34.7  
229 22.4 15.3 22.9

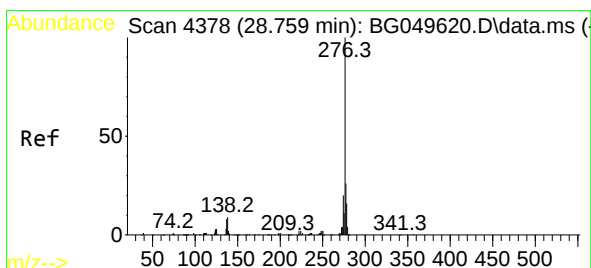
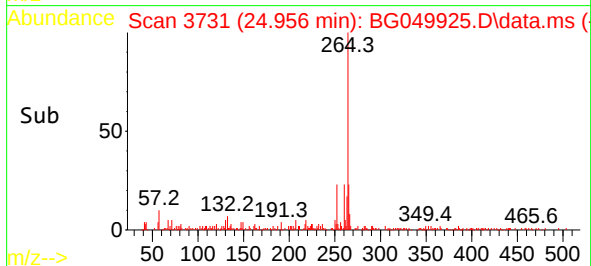
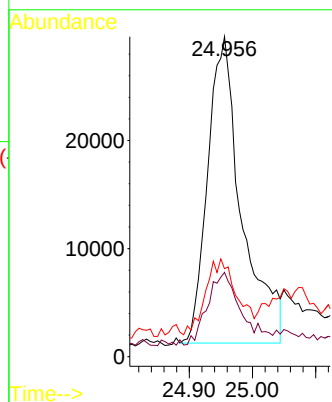
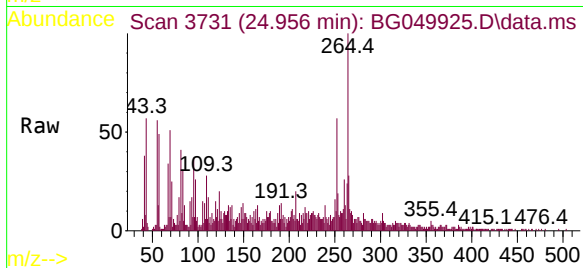




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.956 min Scan# 3731  
Delta R.T. 0.072 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

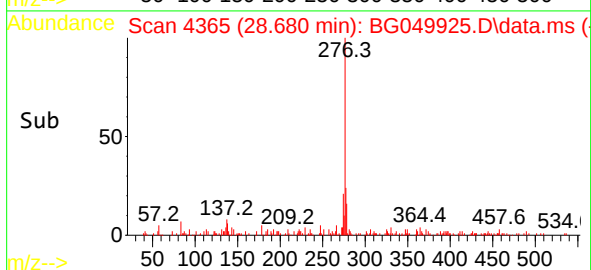
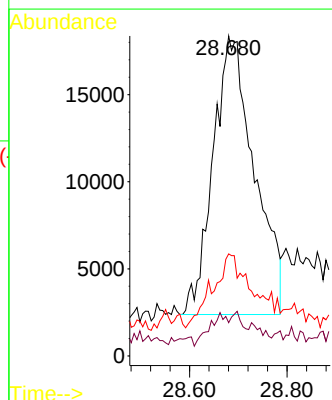
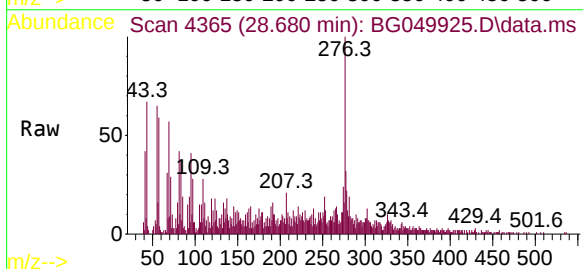
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-02-0002

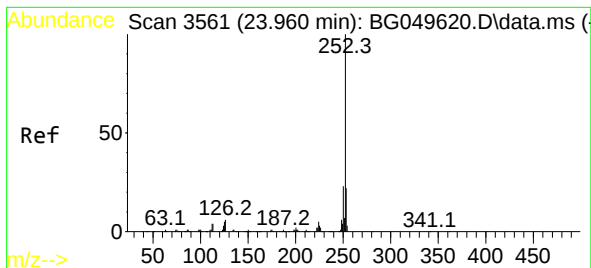
Tgt Ion:264 Resp: 105947  
Ion Ratio Lower Upper  
264 100  
260 26.4 19.4 29.2  
265 27.5 16.9 25.3#



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 12.323 ng  
RT: 28.680 min Scan# 4365  
Delta R.T. 0.101 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:276 Resp: 94155  
Ion Ratio Lower Upper  
276 100  
138 1.6 5.1 7.7#  
277 13.5 19.8 29.6#





#88

Benzo(b)fluoranthene

Concen: 115.634 ng

RT: 23.928 min Scan# 3556

Delta R.T. 0.066 min

Lab File: BG049925.D

Acq: 21 Aug 2021 1:37

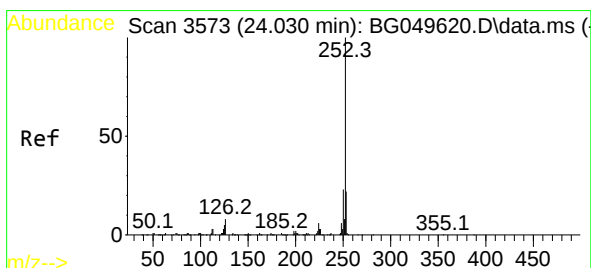
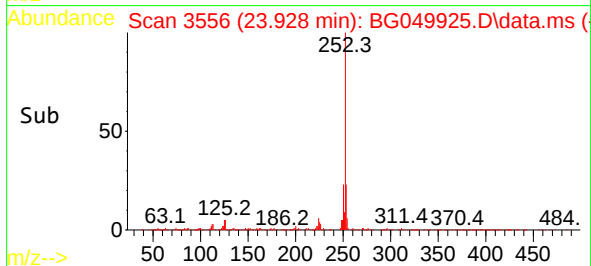
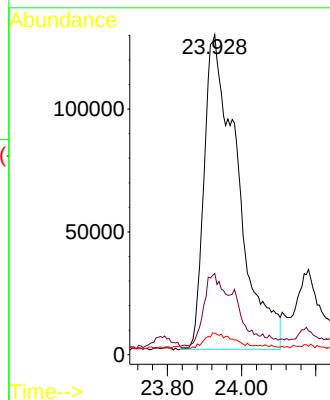
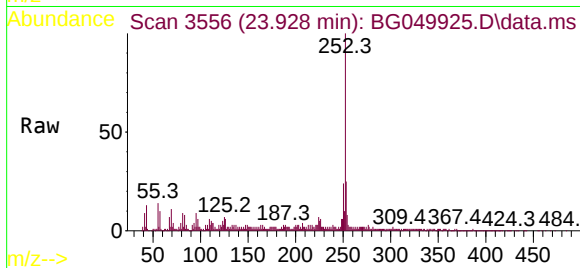
Instrument :

BNA\_G

ClientSampleId :

SWCS-02-0002

Tgt Ion:252 Resp: 803491  
 Ion Ratio Lower Upper  
 252 100  
 253 25.4 16.2 24.4#  
 125 6.8 3.0 4.4#



#89

Benzo(k)fluoranthene

Concen: 123.969 ng

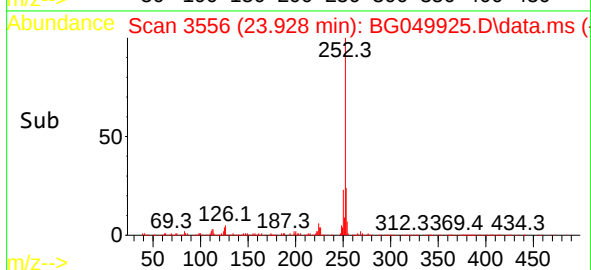
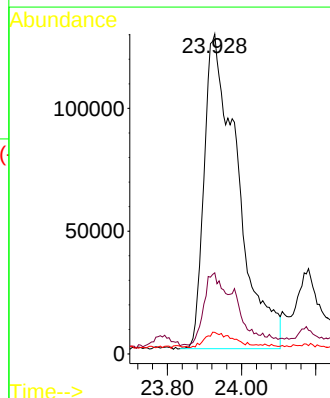
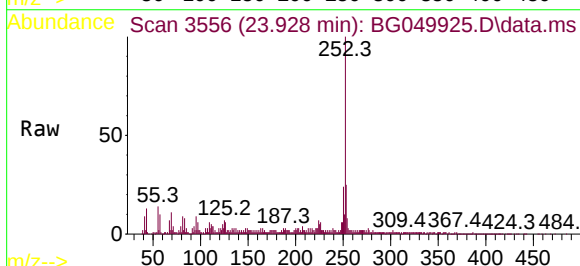
RT: 23.928 min Scan# 3556

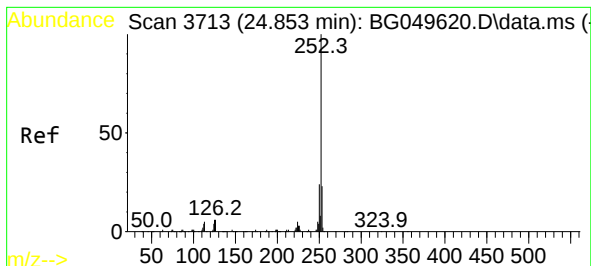
Delta R.T. 0.002 min

Lab File: BG049925.D

Acq: 21 Aug 2021 1:37

Tgt Ion:252 Resp: 803491  
 Ion Ratio Lower Upper  
 252 100  
 253 25.4 18.0 27.0  
 125 6.8 3.1 4.7#

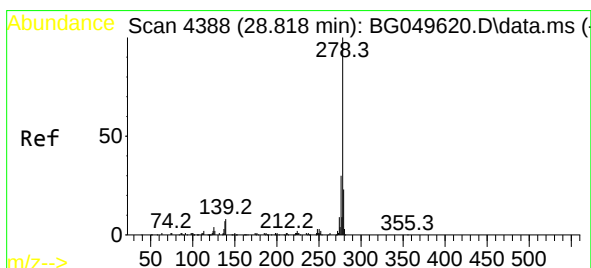
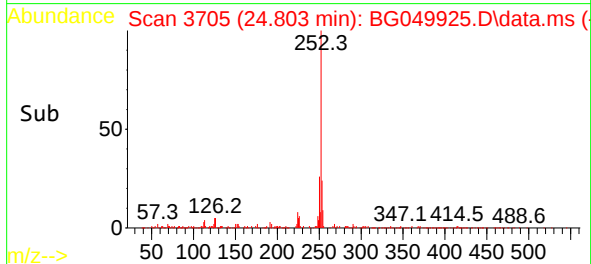
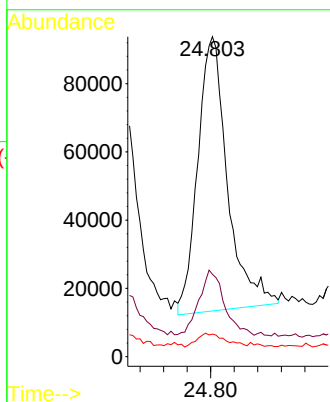
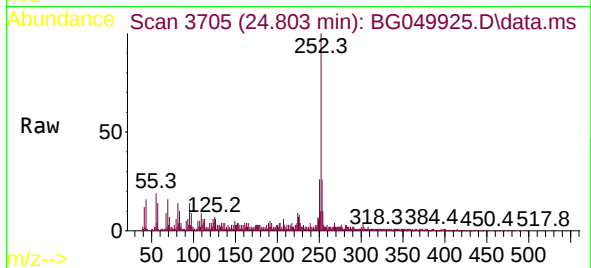




#90  
Benzo(a)pyrene  
Concen: 44.832 ng  
RT: 24.803 min Scan# 3705  
Delta R.T. 0.066 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

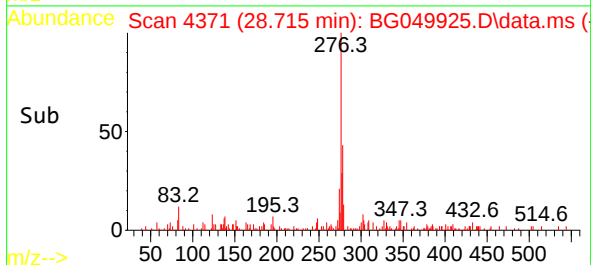
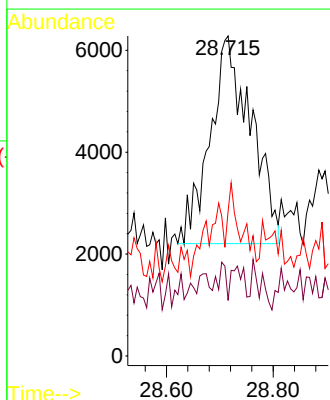
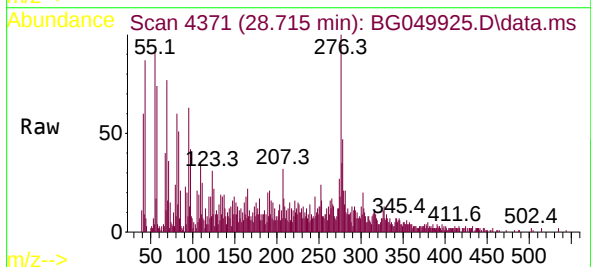
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-02-0002

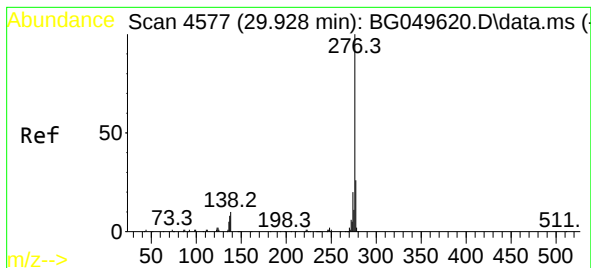
Tgt Ion:252 Resp: 281922  
Ion Ratio Lower Upper  
252 100  
253 25.7 16.6 25.0#  
125 7.1 3.5 5.3#



#91  
Dibenzo(a,h)anthracene  
Concen: 3.389 ng  
RT: 28.715 min Scan# 4371  
Delta R.T. 0.078 min  
Lab File: BG049925.D  
Acq: 21 Aug 2021 1:37

Tgt Ion:278 Resp: 21818  
Ion Ratio Lower Upper  
278 100  
139 17.3 4.6 6.8#  
279 45.3 17.9 26.9#





#92  
 Benzo(g,h,i)perylene  
 Concen: 10.953 ng  
 RT: 29.855 min Scan# 4565  
 Delta R.T. 0.119 min  
 Lab File: BG049925.D  
 Acq: 21 Aug 2021 1:37

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SWCS-02-0002

Tgt Ion:276 Resp: 69090  
 Ion Ratio Lower Upper  
 276 100  
 277 26.9 18.4 27.6  
 138 9.7 7.0 10.6

