

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082421\  
 Data File : BG049956.D  
 Acq On : 24 Aug 2021 17:26  
 Operator : CG/JU  
 Sample : M3419-05  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SWCS-03-0510

Manual Integrations  
 APPROVED

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 8/25/2021 3:34:03 PM

Quant Time: Aug 25 01:07:56 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 23 16:13:24 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.974  | 152  | 36069    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8          | 10.794 | 136  | 148241   | 20.000 | ng    | #-0.02   |
| 39) Acenaphthene-d10        | 14.636 | 164  | 94563    | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.391 | 188  | 177278   | 20.000 | ng    | #-0.01   |
| 76) Chrysene-d12            | 21.674 | 240  | 145739   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 24.934 | 264  | 149747   | 20.000 | ng    | 0.01     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.531  | 112  | 175838   | 87.390 | ng    | 0.00     |
| 7) Phenol-d6                | 7.152  | 99   | 255553   | 83.904 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.149  | 82   | 190246   | 56.790 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.134 | 330  | 120096   | 86.403 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.256 | 172  | 341793   | 52.593 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.999 | 244  | 365474   | 45.545 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.432 | 178  | 97082    | 10.409 | ng    | 98       |
| 75) Fluoranthene            | 19.447 | 202  | 266061   | 23.182 | ng    | 98       |
| 78) Pyrene                  | 19.811 | 202  | 244997   | 24.658 | ng    | 97       |
| 81) Benzo(a)anthracene      | 21.650 | 228  | 128444   | 13.533 | ng    | 96       |
| 83) Chrysene                | 21.715 | 228  | 186459m  | 20.552 | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 28.658 | 276  | 101714   | 9.418  | ng    | # 80     |
| 88) Benzo(b)fluoranthene    | 23.894 | 252  | 247183   | 25.168 | ng    | # 90     |
| 89) Benzo(k)fluoranthene    | 23.953 | 252  | 81106m   | 8.853  | ng    |          |
| 90) Benzo(a)pyrene          | 24.775 | 252  | 149193   | 16.786 | ng    | # 92     |
| 91) Dibenzo(a,h)anthracene  | 28.688 | 278  | 26650m   | 2.928  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 29.827 | 276  | 93426    | 10.479 | ng    | # 90     |
| -----                       |        |      |          |        |       |          |

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

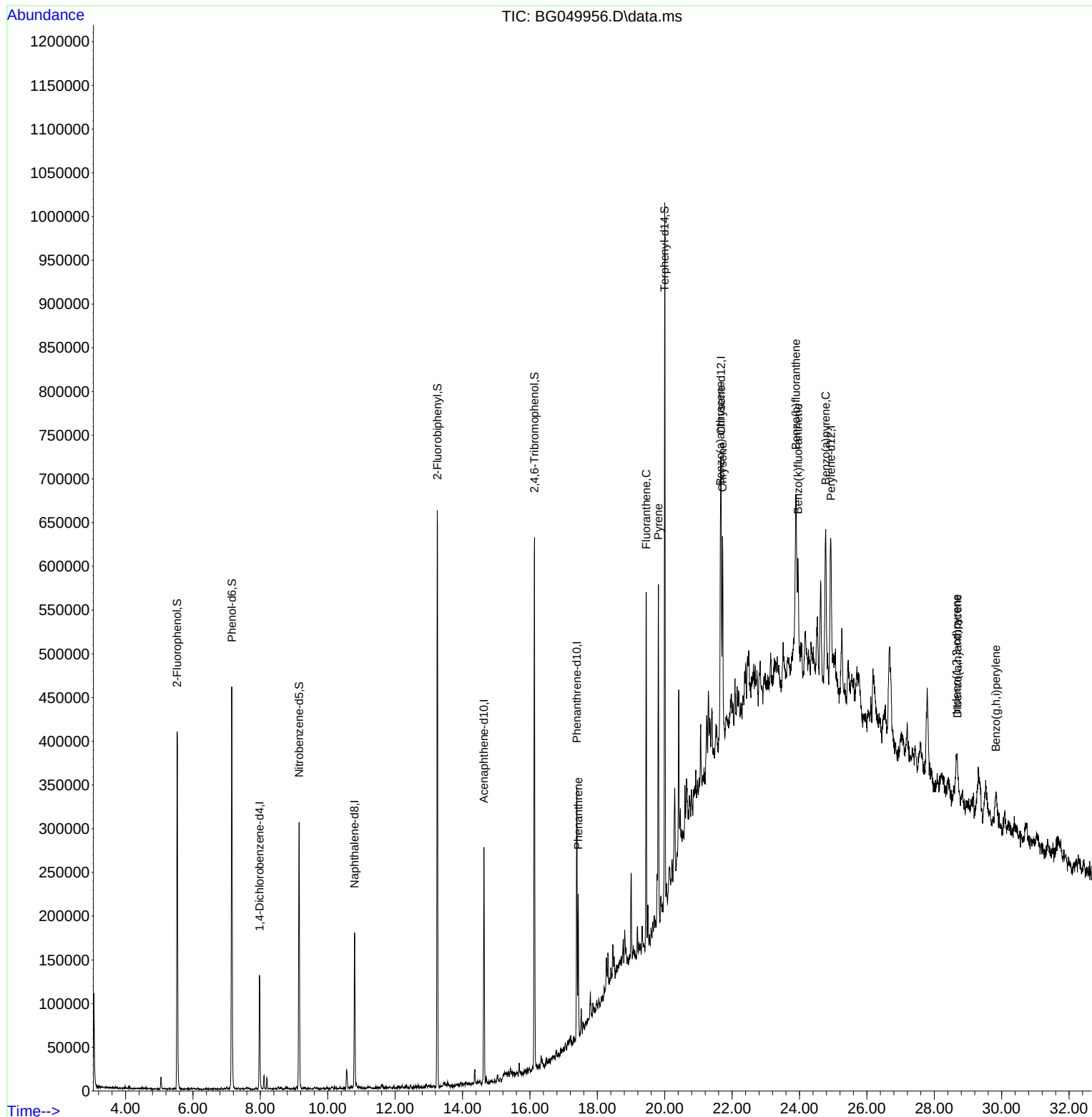
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082421\  
Data File : BG049956.D  
Acq On : 24 Aug 2021 17:26  
Operator : CG/JU  
Sample : M3419-05  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

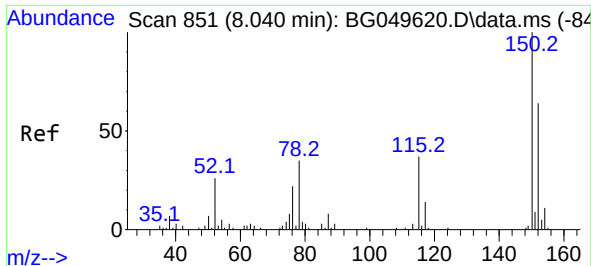
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510

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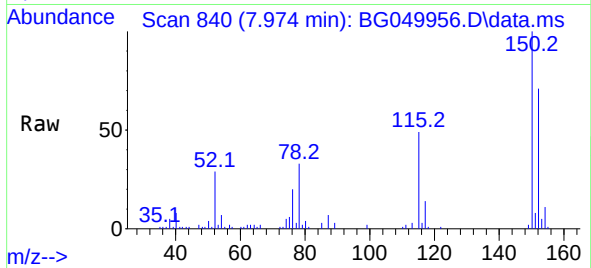
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Quant Time: Aug 25 01:07:56 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG080321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 23 16:13:24 2021  
Response via : Initial Calibration

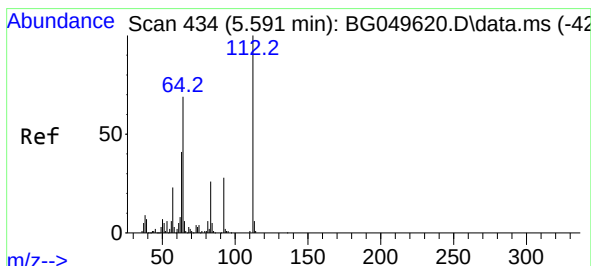
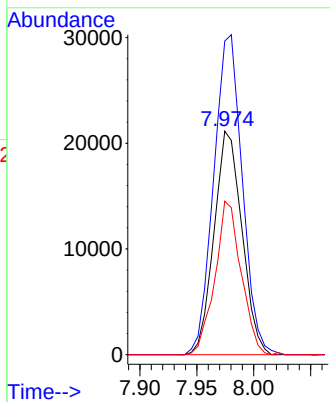
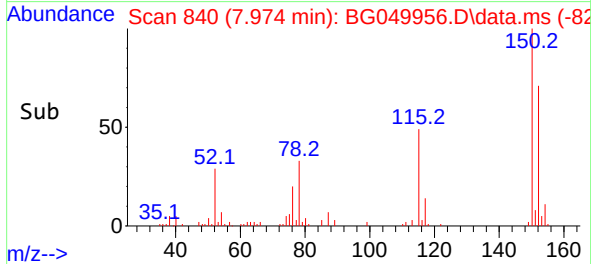




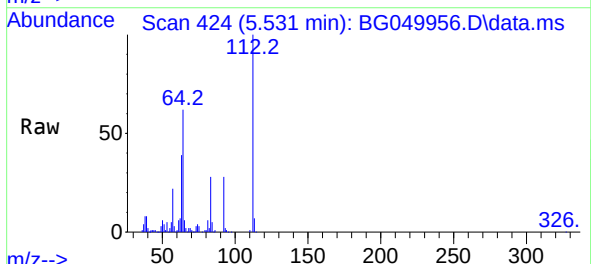
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.974 min Scan# 840  
Delta R.T. -0.012 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



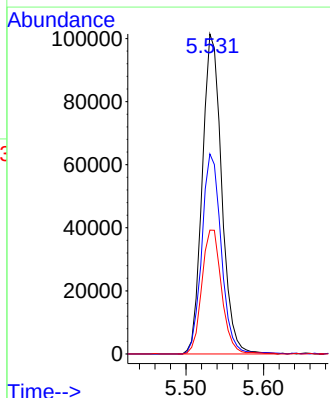
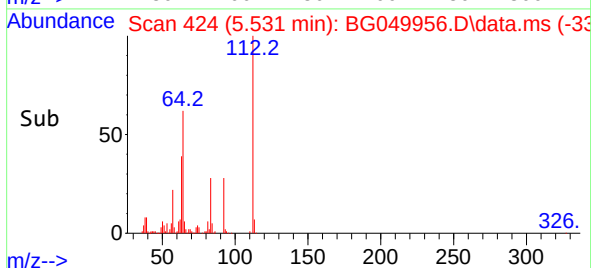
Tgt Ion:152 Resp: 36069  
Ion Ratio Lower Upper  
152 100  
150 140.3 119.4 179.0  
115 68.6 60.2 90.4



#5  
2-Fluorophenol  
Concen: 87.390 ng  
RT: 5.531 min Scan# 424  
Delta R.T. -0.006 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



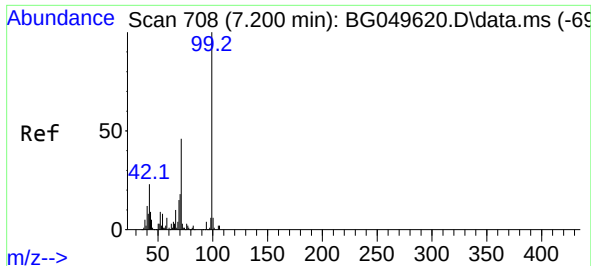
Tgt Ion:112 Resp: 175838  
Ion Ratio Lower Upper  
112 100  
64 62.5 46.7 70.1  
63 38.7 35.3 52.9



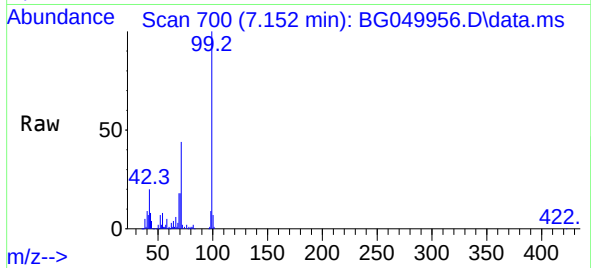
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510

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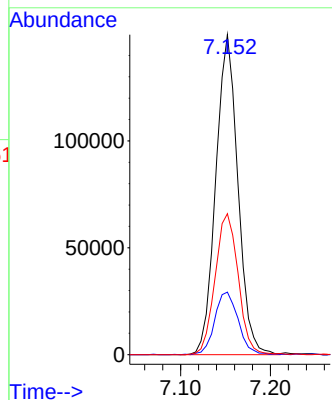
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#7  
Phenol-d6  
Concen: 83.904 ng  
RT: 7.152 min Scan# 700  
Delta R.T. -0.006 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



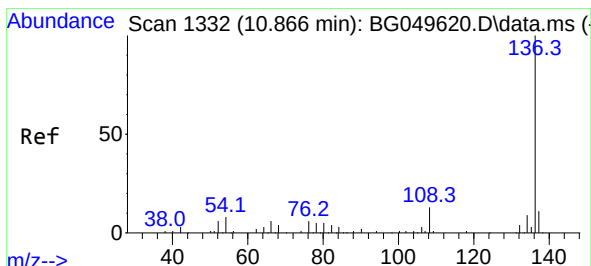
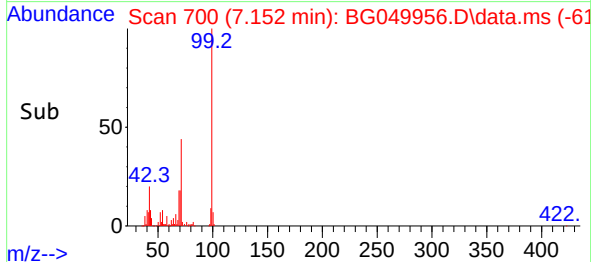
Tgt Ion: 99 Resp: 255553  
Ion Ratio Lower Upper  
99 100  
42 19.5 20.5 30.7#  
71 44.0 41.5 62.3



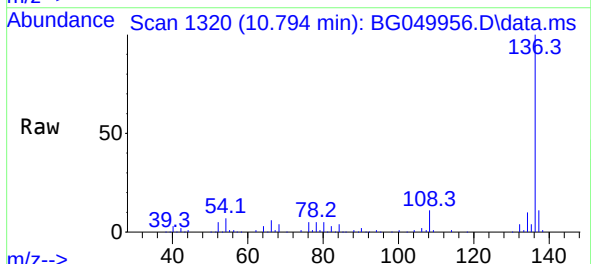
Instrument :  
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ClientSampleId :  
SWCS-03-0510

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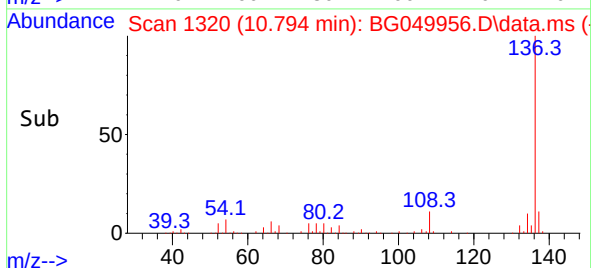
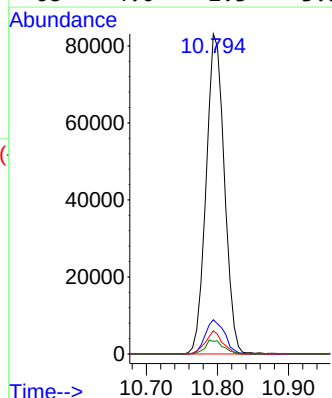
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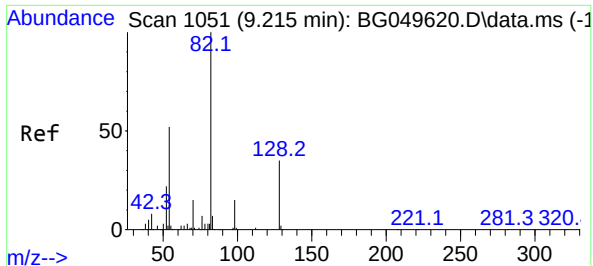


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.794 min Scan# 1320  
Delta R.T. -0.017 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



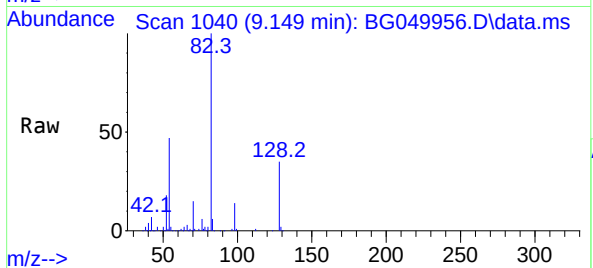
Tgt Ion: 136 Resp: 148241  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.2 12.2  
54 7.2 5.5 8.3  
68 4.0 2.3 3.5#





#23  
Nitrobenzene-d5  
Concen: 56.790 ng  
RT: 9.149 min Scan# 1040  
Delta R.T. -0.011 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

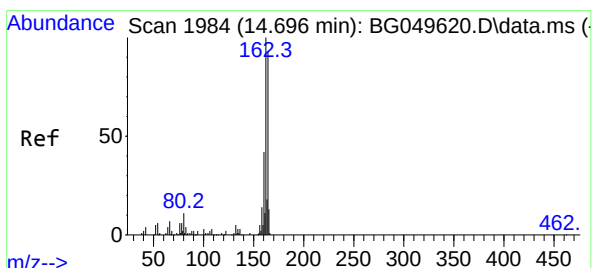
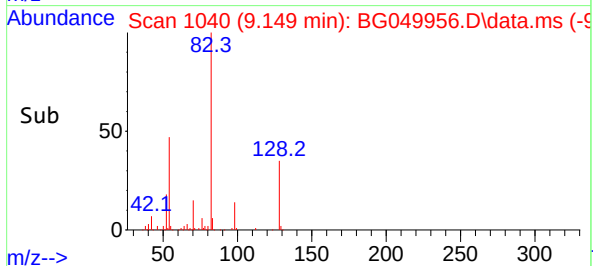
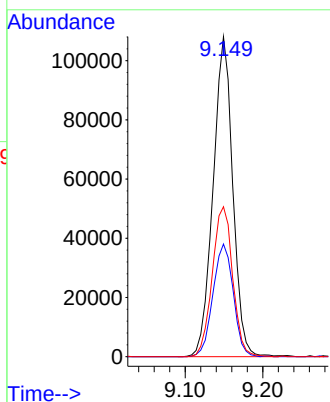
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510



Tgt Ion: 82 Resp: 190246  
Ion Ratio Lower Upper  
82 100  
128 35.2 29.8 44.6  
54 46.9 45.8 68.8

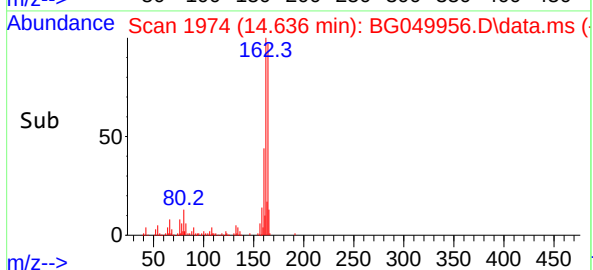
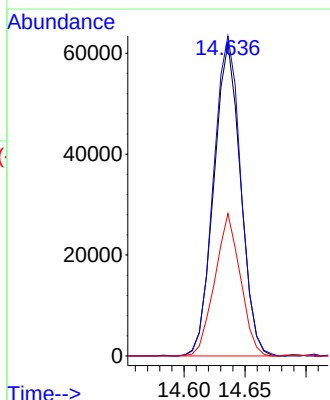
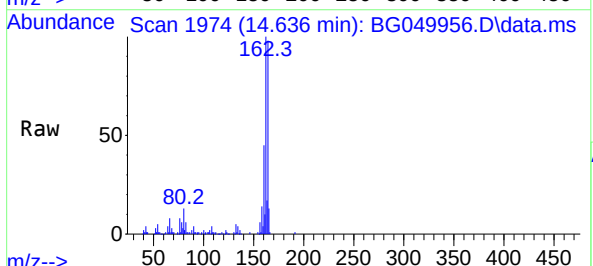
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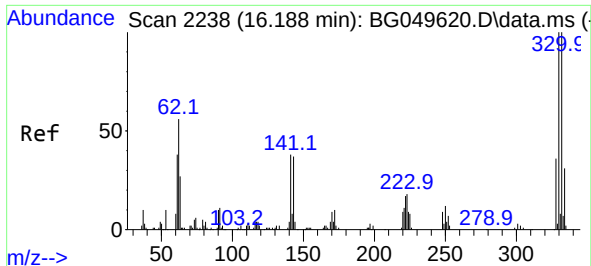
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.636 min Scan# 1974  
Delta R.T. -0.011 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

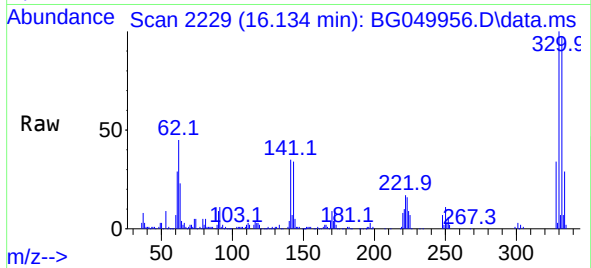
Tgt Ion: 164 Resp: 94563  
Ion Ratio Lower Upper  
164 100  
162 102.4 81.4 122.0  
160 45.6 34.9 52.3





#42  
2,4,6-Tribromophenol  
Concen: 86.403 ng  
RT: 16.134 min Scan# 2229  
Delta R.T. -0.012 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

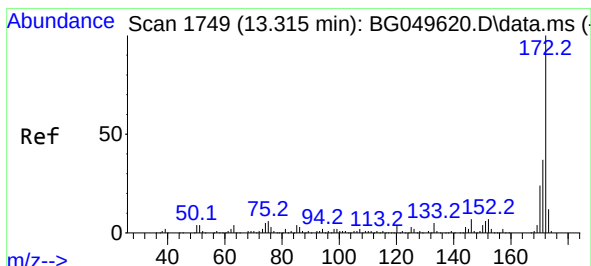
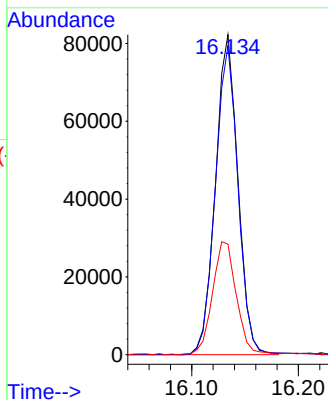
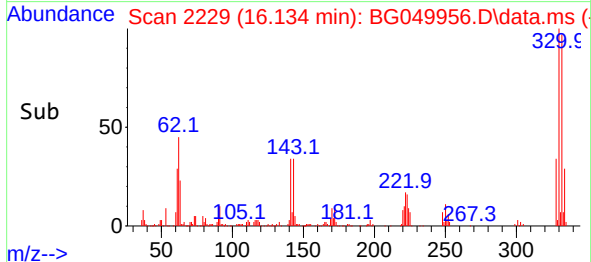
Instrument :  
BNA\_G  
ClientSampled :  
SWCS-03-0510



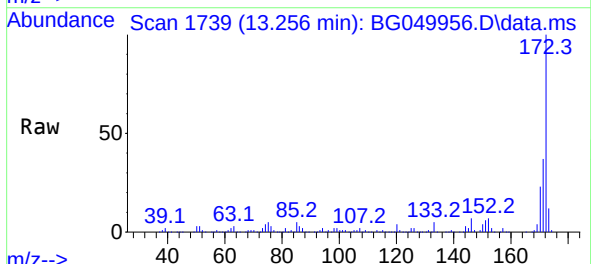
Tgt Ion:330 Resp: 120096  
Ion Ratio Lower Upper  
330 100  
332 97.8 77.3 115.9  
141 37.8 35.6 53.4

Manual Integrations  
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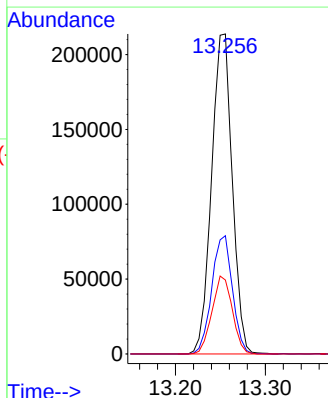
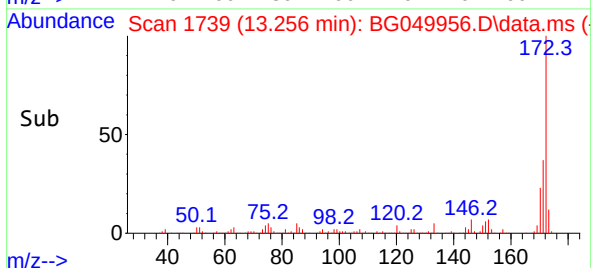
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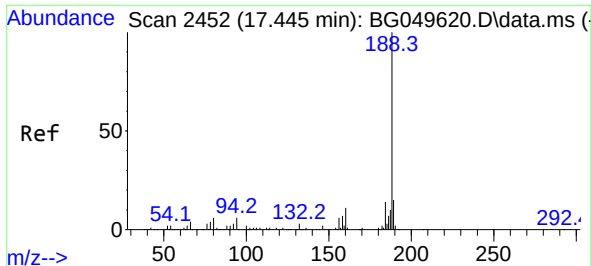


#45  
2-Fluorobiphenyl  
Concen: 52.593 ng  
RT: 13.256 min Scan# 1739  
Delta R.T. -0.006 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



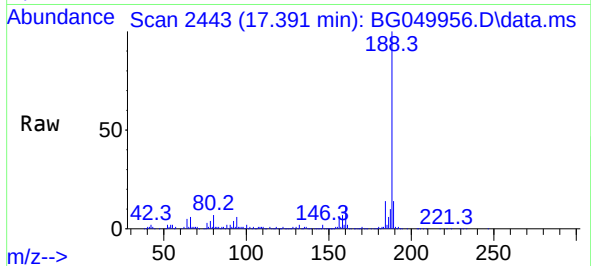
Tgt Ion:172 Resp: 341793  
Ion Ratio Lower Upper  
172 100  
171 37.0 28.6 43.0  
170 23.1 18.6 27.8





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.391 min Scan# 2443  
Delta R.T. -0.011 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

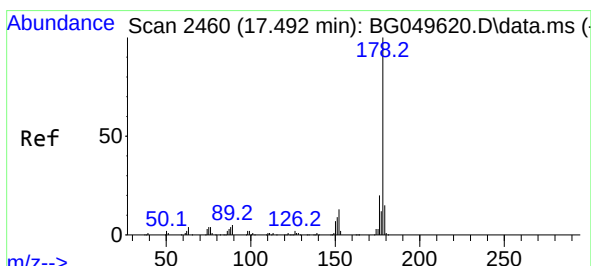
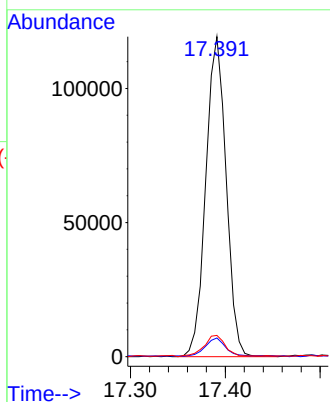
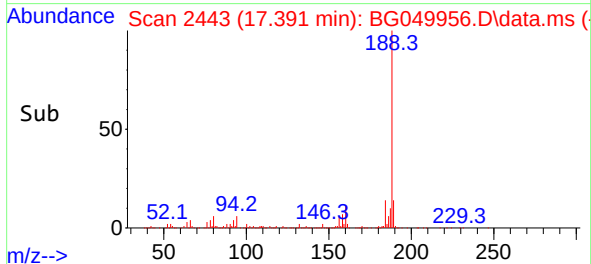
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510



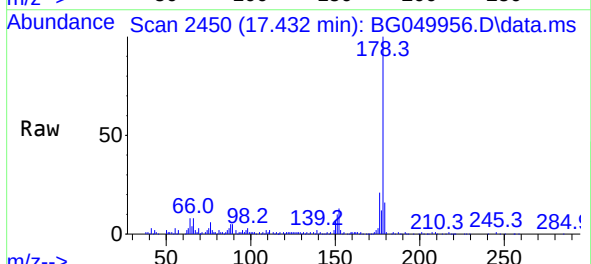
Tgt Ion:188 Resp: 177278  
Ion Ratio Lower Upper  
188 100  
94 5.9 5.4 8.0  
80 6.7 3.7 5.5#

Manual Integrations  
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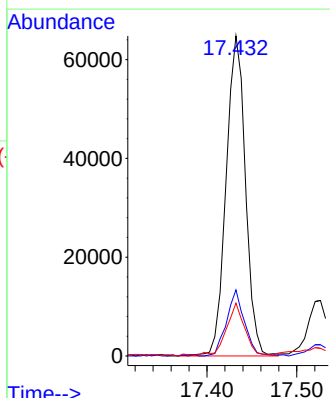
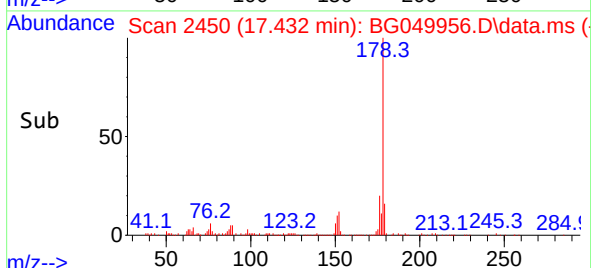
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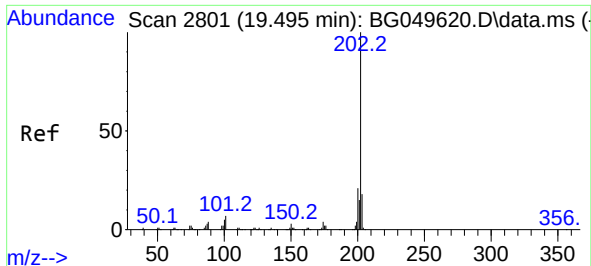


#71  
Phenanthrene  
Concen: 10.409 ng  
RT: 17.432 min Scan# 2450  
Delta R.T. -0.011 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



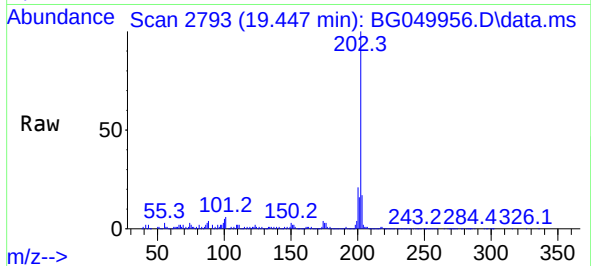
Tgt Ion:178 Resp: 97082  
Ion Ratio Lower Upper  
178 100  
176 20.6 16.0 24.0  
179 16.5 14.2 21.4





#75  
Fluoranthene  
Concen: 23.182 ng  
RT: 19.447 min Scan# 2793  
Delta R.T. -0.011 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

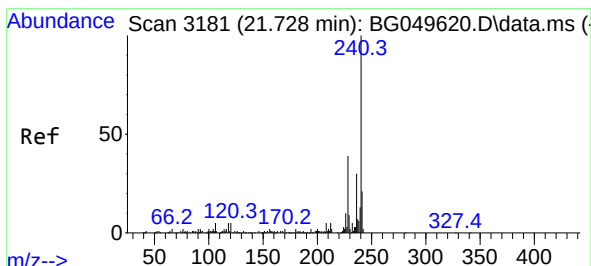
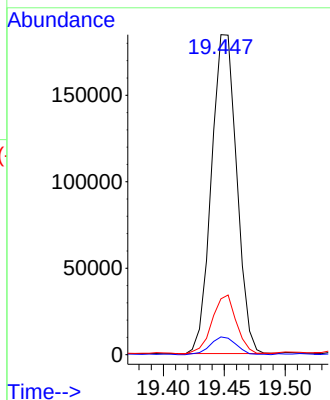
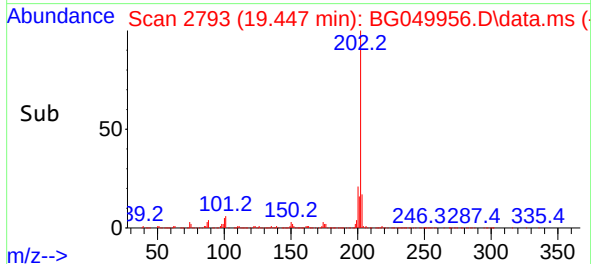
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510



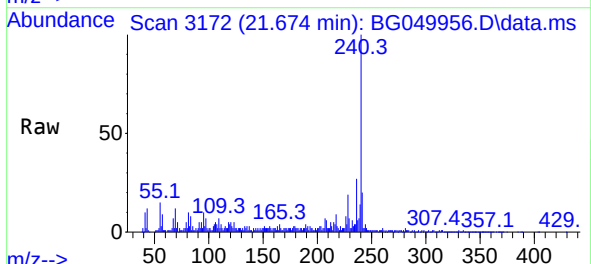
Tgt Ion:202 Resp: 266061  
Ion Ratio Lower Upper  
202 100  
101 5.6 0.0 24.7  
203 17.5 0.0 38.5

Manual Integrations  
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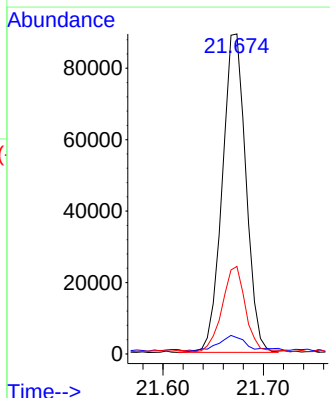
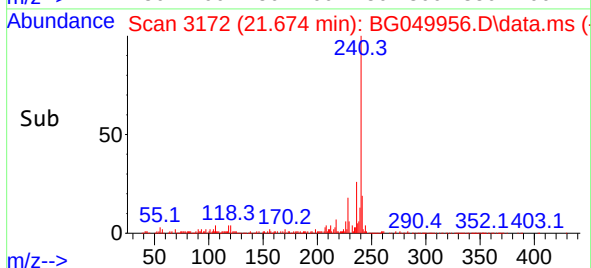
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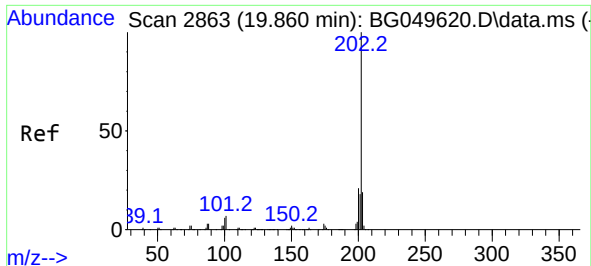
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.674 min Scan# 3172  
Delta R.T. -0.006 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



Tgt Ion:240 Resp: 145739  
Ion Ratio Lower Upper  
240 100  
120 5.1 4.2 6.2  
236 27.3 21.8 32.6







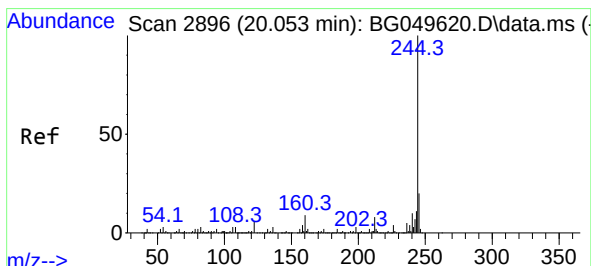
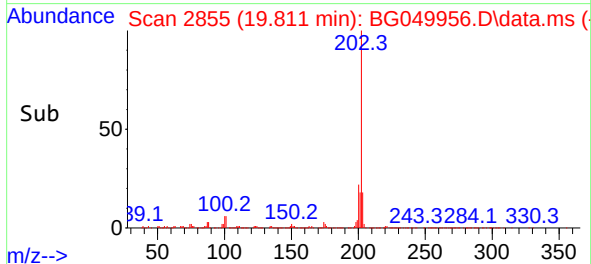
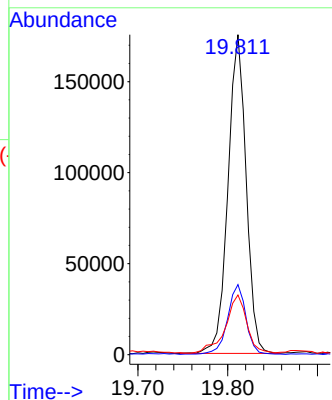
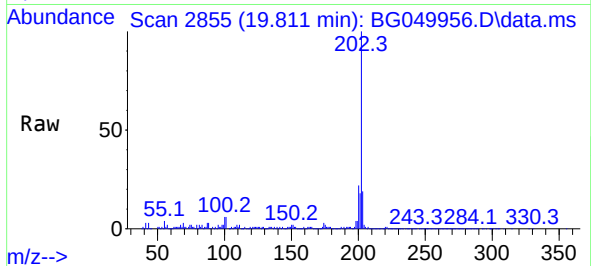
#78  
Pyrene  
Concen: 24.658 ng  
RT: 19.811 min Scan# 2855  
Delta R.T. -0.006 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 244997 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.9  | 15.8  | 23.8   |
| 203       | 18.7  | 14.6  | 21.8   |

Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510

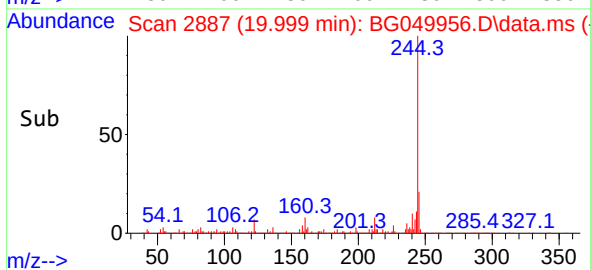
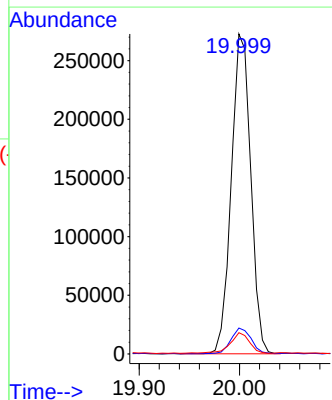
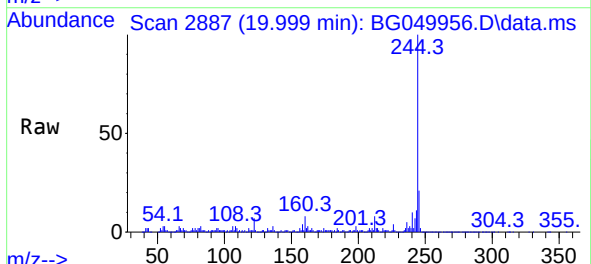
Manual Integrations  
APPROVED

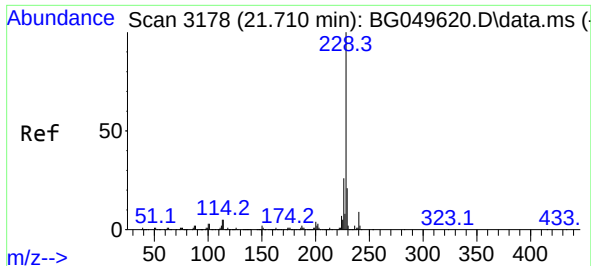
mohammad  
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#79  
Terphenyl-d14  
Concen: 45.545 ng  
RT: 19.999 min Scan# 2887  
Delta R.T. -0.011 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

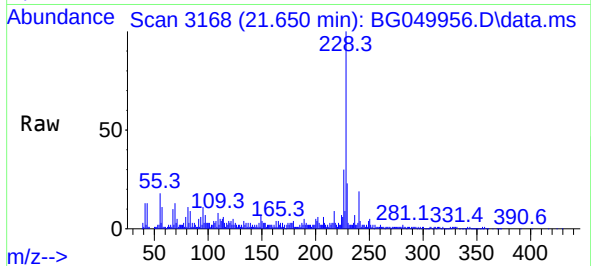
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 365474 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 8.1   | 6.9   | 10.3   |
| 122       | 6.7   | 5.0   | 7.6    |





#81  
Benzo(a)anthracene  
Concen: 13.533 ng  
RT: 21.650 min Scan# 3168  
Delta R.T. -0.006 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

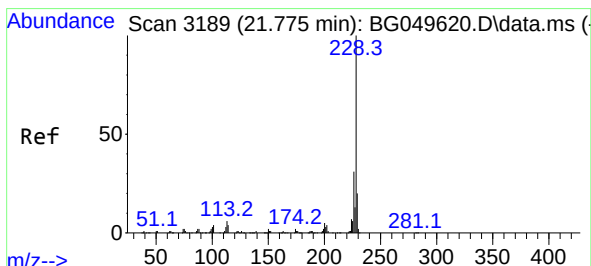
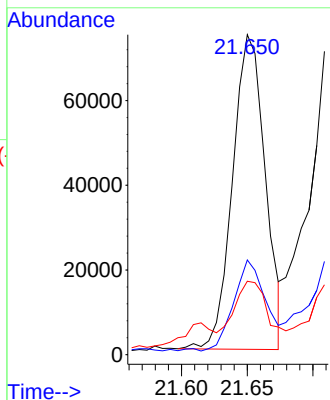
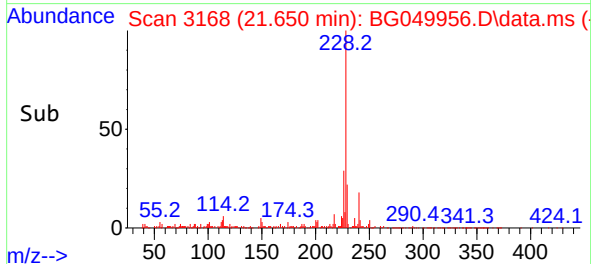
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510



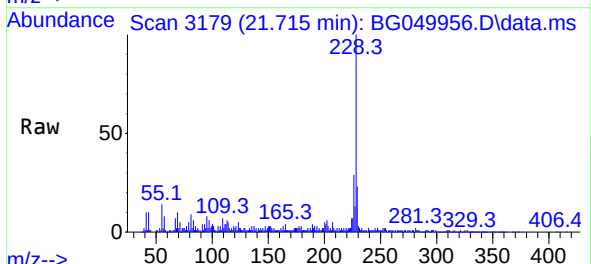
Tgt Ion:228 Resp: 128444  
Ion Ratio Lower Upper  
228 100  
226 29.6 22.7 34.1  
229 23.0 16.0 24.0

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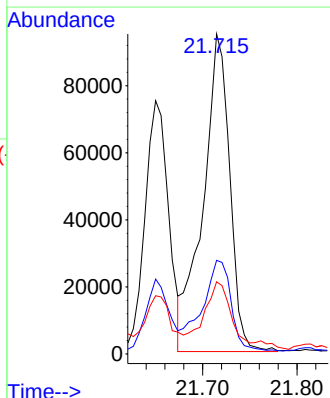
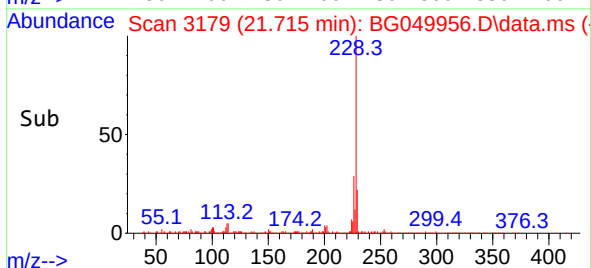
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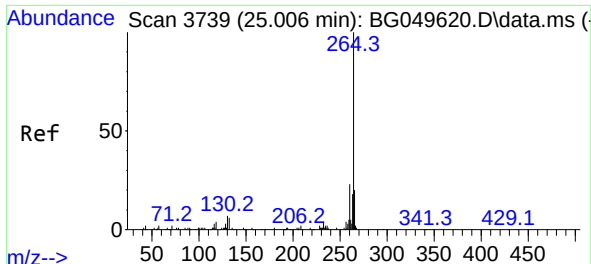


#83  
Chrysene  
Concen: 20.552 ng m  
RT: 21.715 min Scan# 3179  
Delta R.T. -0.011 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



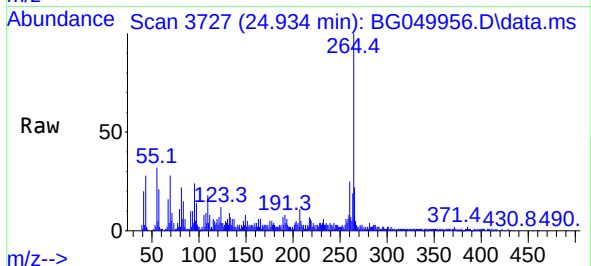
Tgt Ion:228 Resp: 186459  
Ion Ratio Lower Upper  
228 100  
226 29.3 23.1 34.7  
229 22.6 15.3 22.9





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.934 min Scan# 3727  
Delta R.T. 0.012 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

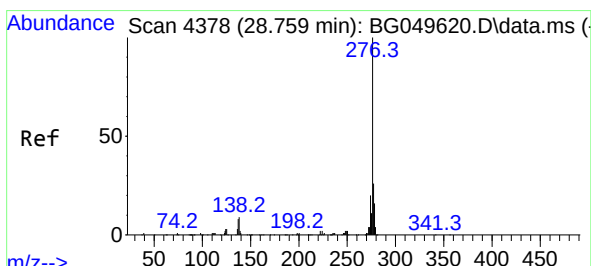
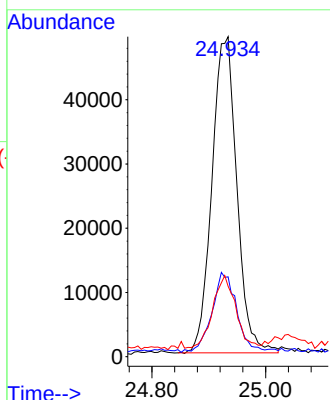
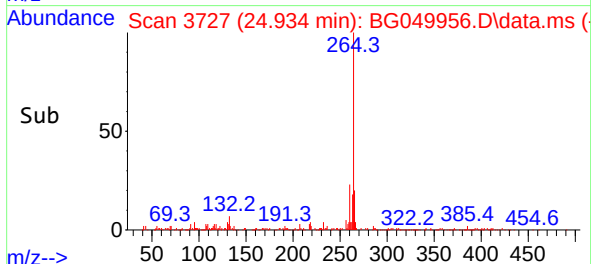
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510



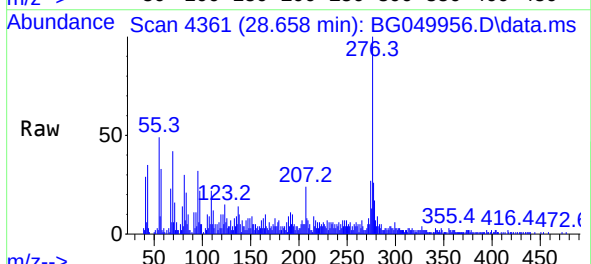
Tgt Ion:264 Resp: 149747  
Ion Ratio Lower Upper  
264 100  
260 25.0 19.4 29.2  
265 22.0 16.9 25.3

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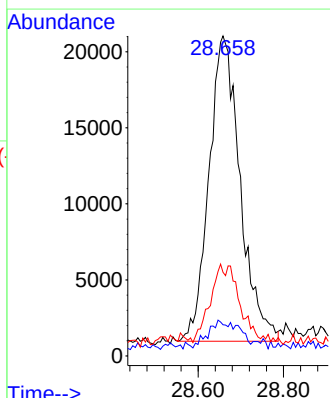
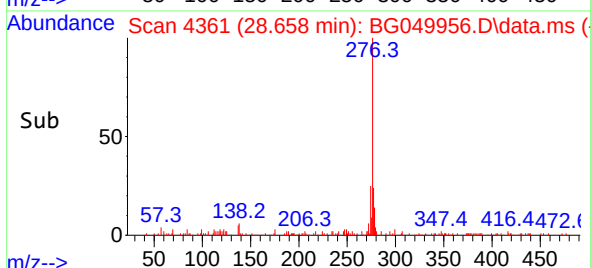
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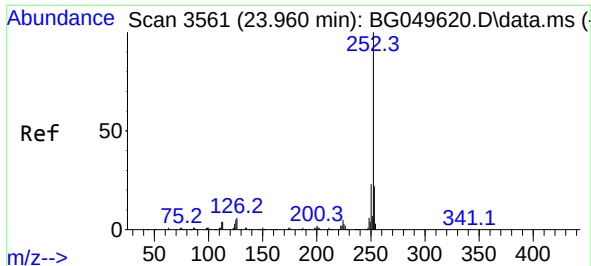


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 9.418 ng  
RT: 28.658 min Scan# 4361  
Delta R.T. 0.012 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



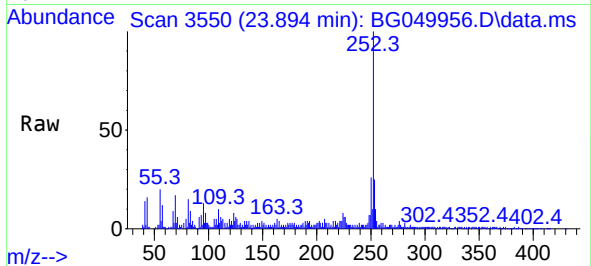
Tgt Ion:276 Resp: 101714  
Ion Ratio Lower Upper  
276 100  
138 5.4 5.1 7.7  
277 12.7 19.8 29.6#





#88  
Benzo(b)fluoranthene  
Concen: 25.168 ng  
RT: 23.894 min Scan# 3550  
Delta R.T. 0.000 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

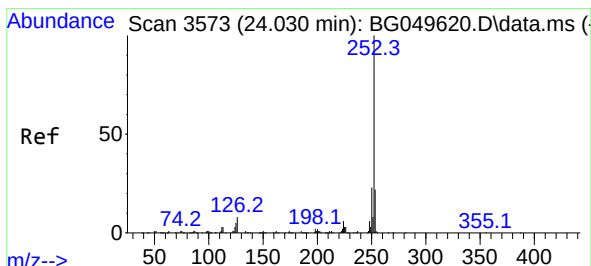
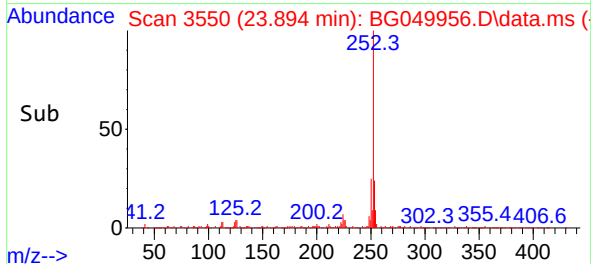
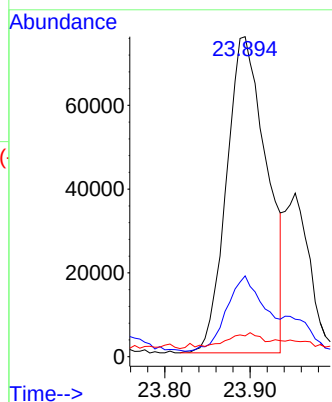
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510



Tgt Ion:252 Resp: 247183  
Ion Ratio Lower Upper  
252 100  
253 25.2 16.2 24.4#  
125 6.5 3.0 4.4#

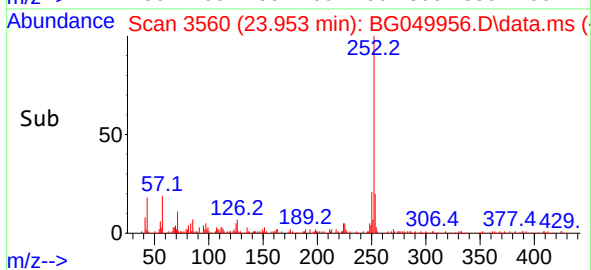
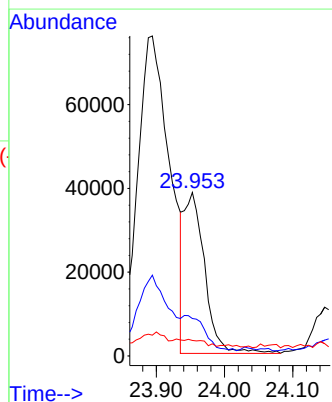
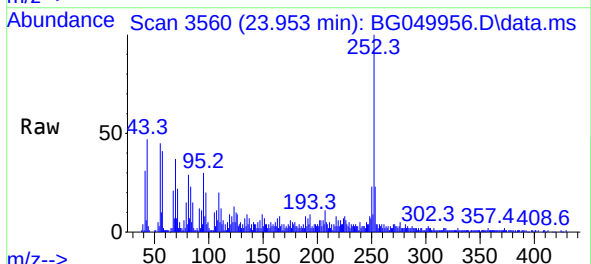
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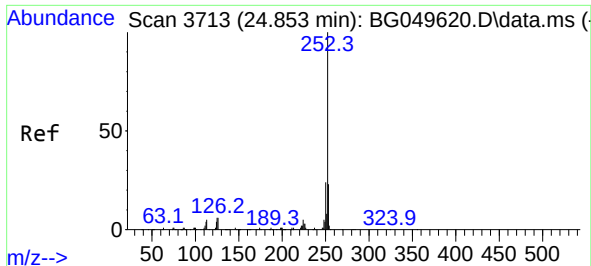
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#89  
Benzo(k)fluoranthene  
Concen: 8.853 ng m  
RT: 23.953 min Scan# 3560  
Delta R.T. -0.006 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

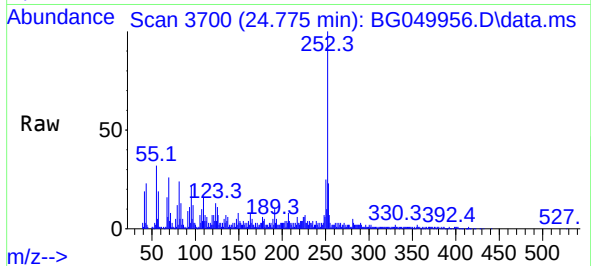
Tgt Ion:252 Resp: 81106  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.0 27.0  
125 9.5 3.1 4.7#





#90  
Benzo(a)pyrene  
Concen: 16.786 ng  
RT: 24.775 min Scan# 3700  
Delta R.T. 0.000 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

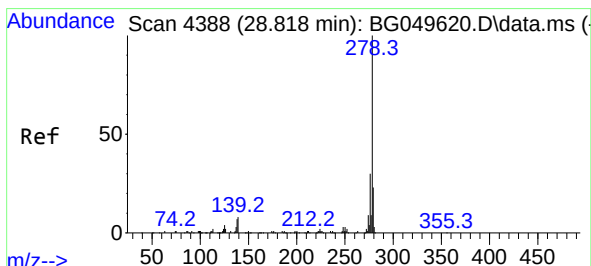
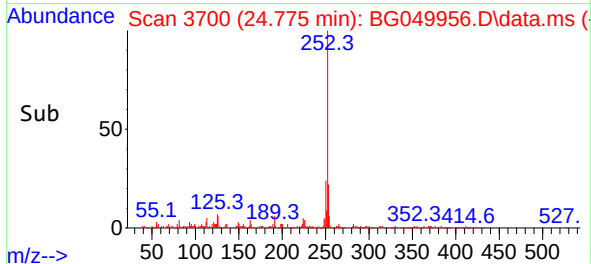
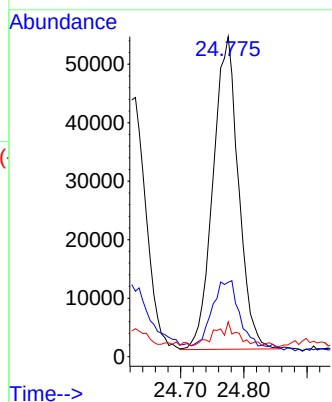
Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510



Tgt Ion:252 Resp: 149193  
Ion Ratio Lower Upper  
252 100  
253 23.3 16.6 25.0  
125 10.9 3.5 5.3#

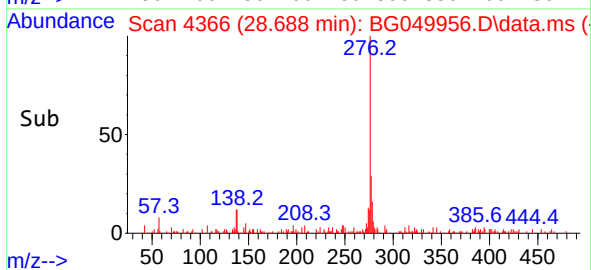
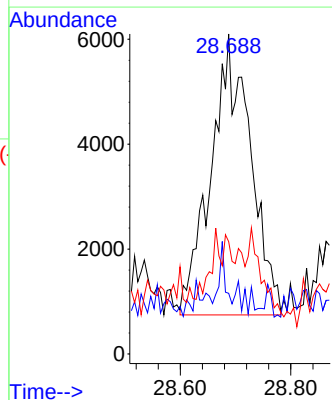
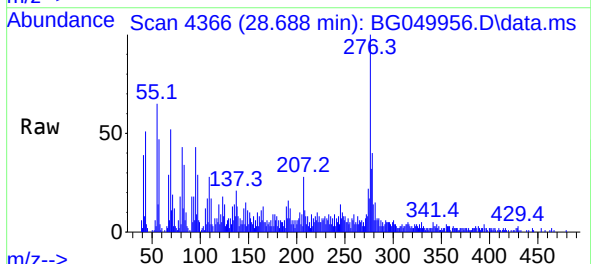
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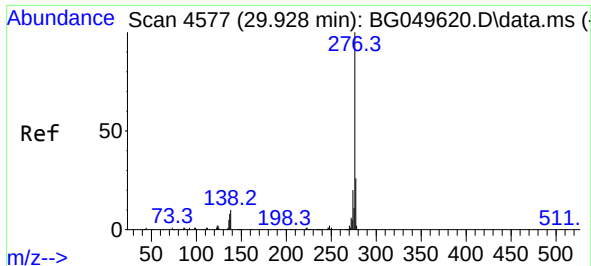
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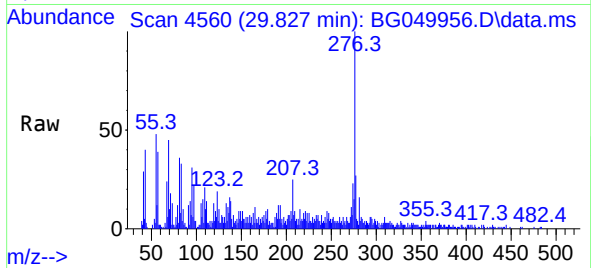
#91  
Dibenzo(a,h)anthracene  
Concen: 2.928 ng m  
RT: 28.688 min Scan# 4366  
Delta R.T. -0.011 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26

Tgt Ion:278 Resp: 26650  
Ion Ratio Lower Upper  
278 100  
139 18.9 4.6 6.8#  
279 35.1 17.9 26.9#

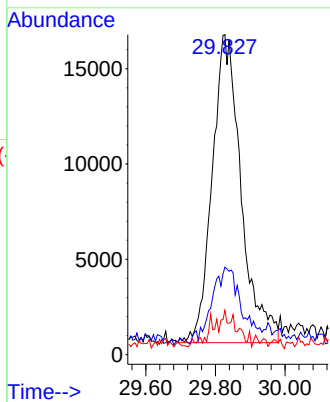
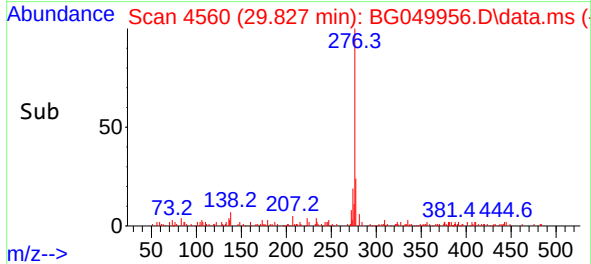




#92  
Benzo(g,h,i)perylene  
Concen: 10.479 ng  
RT: 29.827 min Scan# 4560  
Delta R.T. 0.012 min  
Lab File: BG049956.D  
Acq: 24 Aug 2021 17:26



Tgt Ion: 276 Resp: 93426  
Ion Ratio Lower Upper  
276 100  
277 27.3 18.4 27.6  
138 13.8 7.0 10.6#



Instrument :  
BNA\_G  
ClientSampleId :  
SWCS-03-0510

Manual Integrations  
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