

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082621\  
 Data File : BG049986.D  
 Acq On : 26 Aug 2021 22:18  
 Operator : CG/JU  
 Sample : M3458-16  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AS2

Manual Integrations  
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Quant Time: Aug 27 02:01:48 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SFAM-EPA-BG081921.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Aug 26 15:41:36 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.972  | 152  | 28791    | 20.000 | ng/ul  | -0.01    |
| 20) Naphthalene-d8            | 10.791 | 136  | 116461   | 20.000 | ng/ul  | #-0.01   |
| 38) Acenaphthene-d10          | 14.627 | 164  | 73210    | 20.000 | ng/ul  | -0.01    |
| 64) Phenanthrene-d10          | 17.382 | 188  | 143269   | 20.000 | ng/ul  | -0.01    |
| 79) Chrysene-d12              | 21.653 | 240  | 130796   | 20.000 | ng/ul  | -0.01    |
| 88) Perylene-d12              | 24.878 | 264  | 136499   | 20.000 | ng/ul  | -0.02    |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.331  | 96   | 1663     | 2.979  | ng/uL  | -0.01    |
| 4) Pyridine-d5                | 3.765  | 84   | 10133    | 6.025  | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.143  | 99   | 37032    | 15.147 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.290  | 67   | 22773    | 16.766 | ng/ul  | -0.02    |
| 11) 2-Chlorophenol-d4         | 7.502  | 132  | 29428    | 16.087 | ng/ul  | -0.01    |
| 15) 4-Methylphenol-d8         | 8.688  | 113  | 26211m   | 13.613 | ng/ul  | -0.01    |
| 21) Nitrobenzene-d5           | 9.141  | 128  | 16713    | 18.510 | ng/ul  | -0.01    |
| 24) 2-Nitrophenol-d4          | 9.869  | 143  | 18955    | 17.631 | ng/ul  | -0.01    |
| 28) 2,4-Dichlorophenol-d3     | 10.421 | 165  | 33236m   | 17.332 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.926 | 131  | 32193    | 12.334 | ng/ul  | -0.01    |
| 46) Dimethylphthalate-d6      | 14.028 | 166  | 108065   | 19.288 | ng/ul  | -0.01    |
| 49) Acenaphthylene-d8         | 14.322 | 160  | 131508   | 20.018 | ng/ul  | -0.01    |
| 54) 4-Nitrophenol-d4          | 14.856 | 143  | 10502    | 12.955 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.620 | 176  | 90055    | 18.957 | ng/ul  | -0.01    |
| 65) 4,6-Dinitro-2-methylph... | 15.755 | 200  | 13426    | 14.566 | ng/ul  | -0.01    |
| 73) Anthracene-d10            | 17.482 | 188  | 129900   | 20.191 | ng/ul  | -0.01    |
| 81) Pyrene-d10                | 19.773 | 212  | 146002   | 20.656 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.661 | 264  | 123919   | 17.112 | ng/ul  | -0.01    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.838 | 128  | 8353     | 1.435  | ng/ul# | 87       |
| 36) 2-Methylnaphthalene       | 12.454 | 142  | 6343     | 1.466  | ng/ul  | 83       |
| 37) 1-Methylnaphthalene       | 12.671 | 142  | 5370     | 1.229  | ng/ul# | 97       |
| 50) Acenaphthylene            | 14.351 | 152  | 13506    | 2.249  | ng/ul# | 92       |
| 56) Dibenzofuran              | 15.033 | 168  | 7509     | 1.245  | ng/ul# | 85       |
| 72) Phenanthrene              | 17.423 | 178  | 181287   | 25.382 | ng/ul  | 97       |
| 74) Anthracene                | 17.512 | 178  | 9733m    | 1.345  | ng/ul  |          |
| 77) Carbazole                 | 17.788 | 167  | 12112    | 1.881  | ng/ul  | 95       |
| 80) Fluoranthene              | 19.438 | 202  | 303906   | 34.844 | ng/ul  | 99       |
| 82) Pyrene                    | 19.803 | 202  | 238148   | 27.554 | ng/ul  | 99       |
| 85) Benzo(a)anthracene        | 21.630 | 228  | 89642    | 10.999 | ng/ul  | 97       |
| 87) Chrysene                  | 21.700 | 228  | 136871   | 17.766 | ng/ul  | 95       |
| 90) Benzo(b)fluoranthene      | 23.862 | 252  | 182356   | 20.885 | ng/ul# | 97       |
| 91) Benzo(k)fluoranthene      | 23.915 | 252  | 58975m   | 7.106  | ng/ul  |          |
| 93) Benzo(a)pyrene            | 24.731 | 252  | 82838    | 10.924 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.567 | 276  | 71627    | 7.161  | ng/ul# | 97       |
| 95) Dibenzo(a,h)anthracene    | 28.608 | 278  | 21743m   | 2.597  | ng/ul  |          |
| -----                         |        |      |          |        |        |          |

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

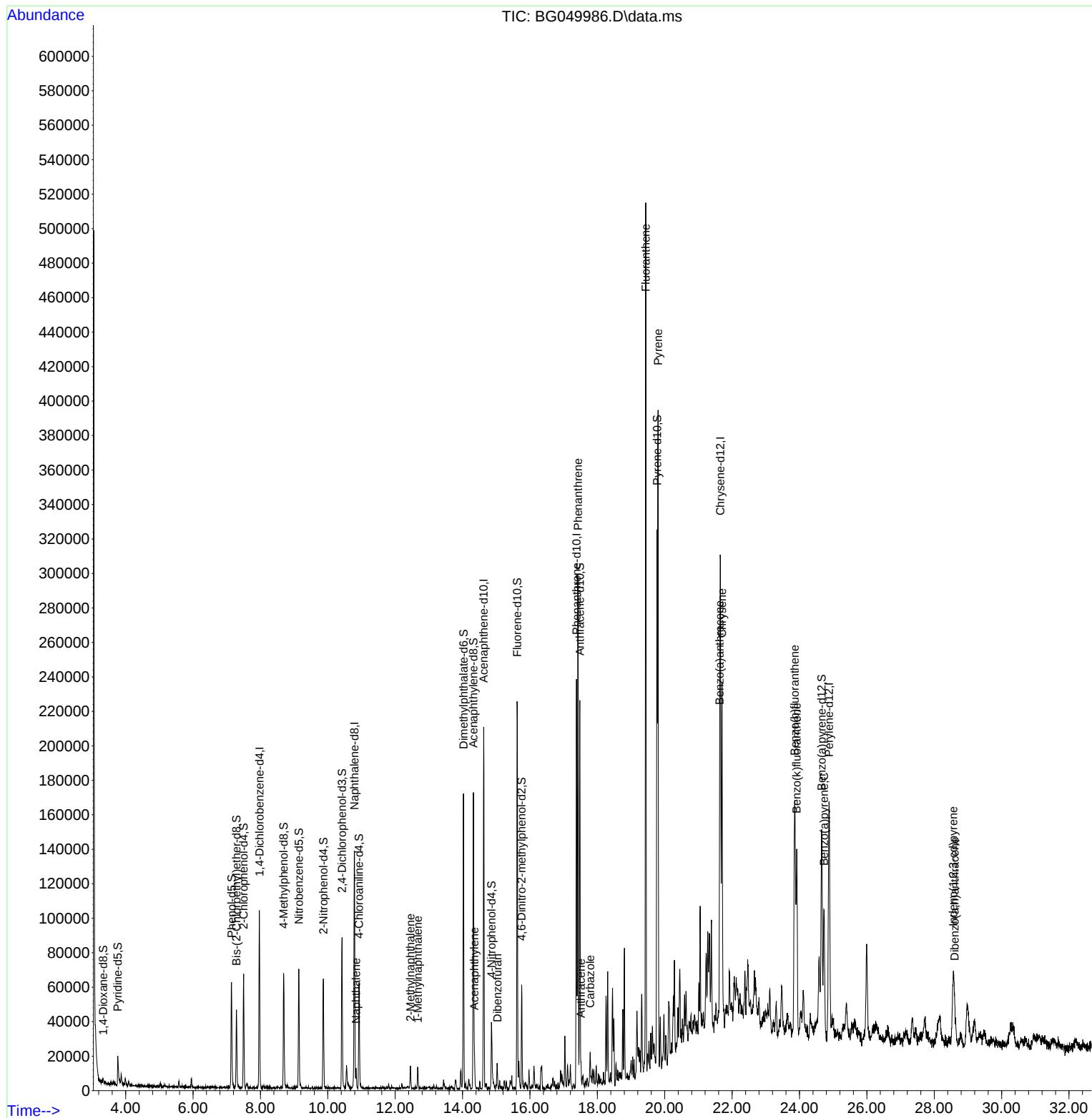
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG082621\  
Data File : BG049986.D  
Acq On : 26 Aug 2021 22:18  
Operator : CG/JU  
Sample : M3458-16  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

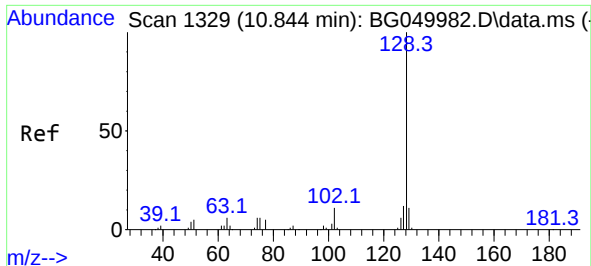
Instrument :  
BNA\_G  
ClientSampleId :  
C0AS2

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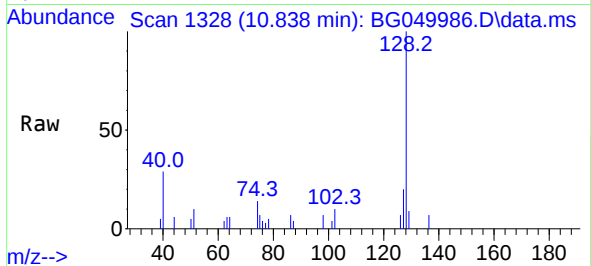
Quant Time: Aug 27 02:01:48 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SFAM-EPA-BG081921.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Aug 26 15:41:36 2021  
Response via : Initial Calibration





#30  
Naphthalene  
Concen: 1.435 ng/ul  
RT: 10.838 min Scan# 1328  
Delta R.T. -0.018 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

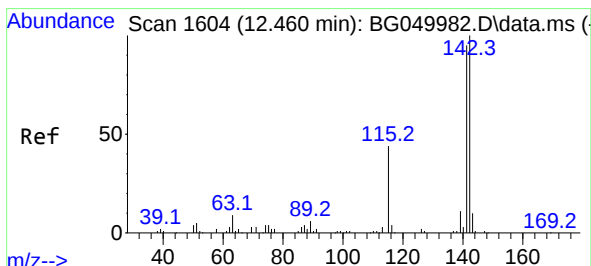
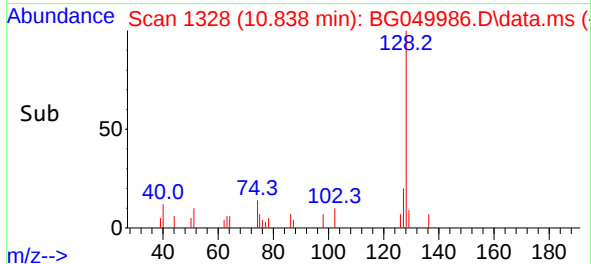
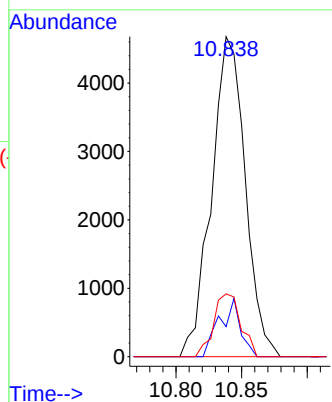
Instrument :  
BNA\_G  
ClientSampled :  
C0AS2



Tgt Ion:128 Resp: 8353  
Ion Ratio Lower Upper  
128 100  
129 9.4 9.3 13.9  
127 19.6 9.8 14.6#

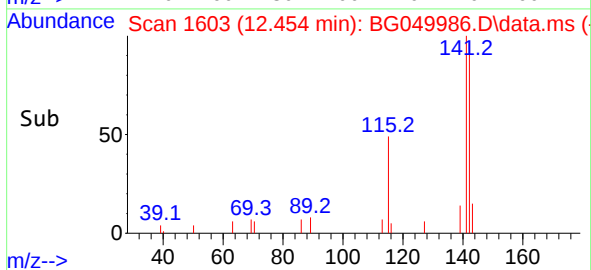
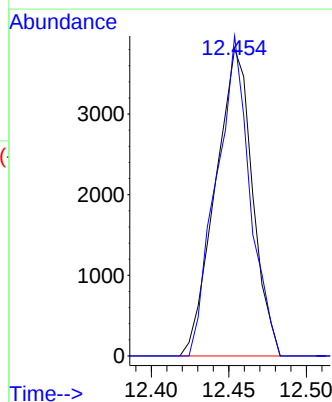
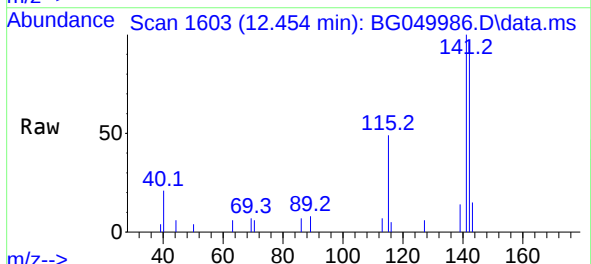
Manual Integrations  
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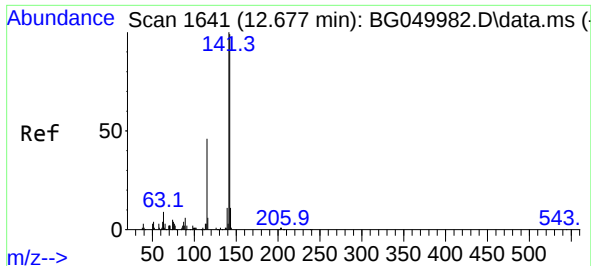
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#36  
2-Methylnaphthalene  
Concen: 1.466 ng/ul  
RT: 12.454 min Scan# 1603  
Delta R.T. -0.012 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

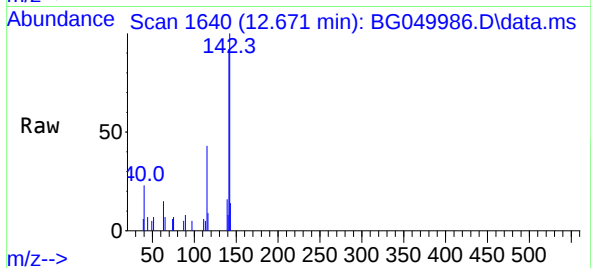
Tgt Ion:142 Resp: 6343  
Ion Ratio Lower Upper  
142 100  
141 104.1 70.5 105.7





#37  
1-Methylnaphthalene  
Concen: 1.229 ng/ul  
RT: 12.671 min Scan# 1640  
Delta R.T. -0.012 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

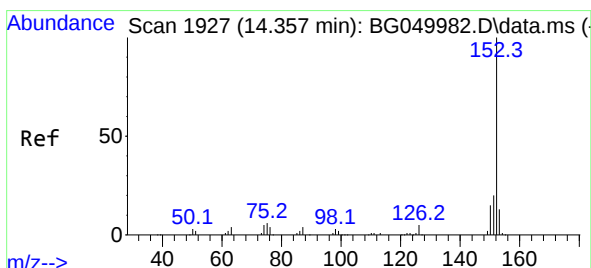
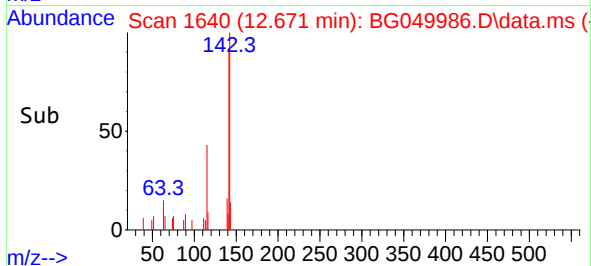
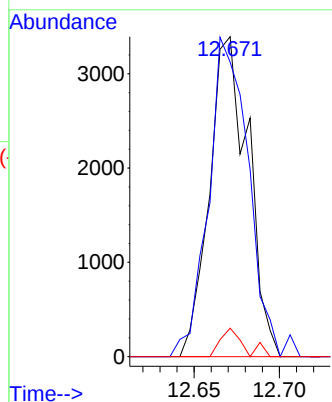
Instrument :  
BNA\_G  
ClientSampled :  
C0AS2



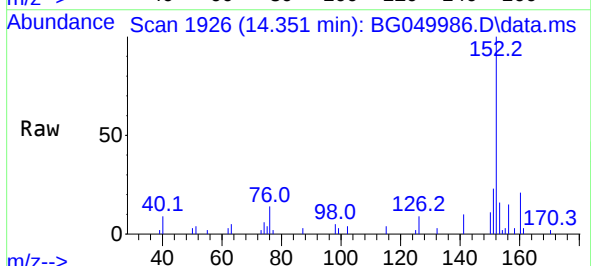
Tgt Ion:142 Resp: 5370  
Ion Ratio Lower Upper  
142 100  
141 92.1 75.8 113.8  
116 8.9 3.7 5.5#

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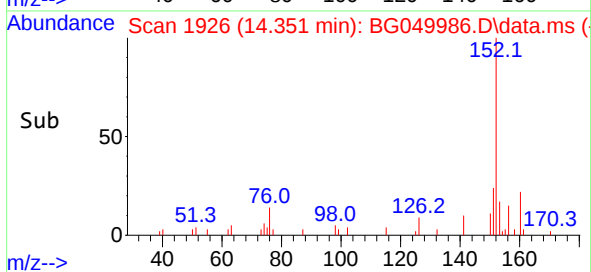
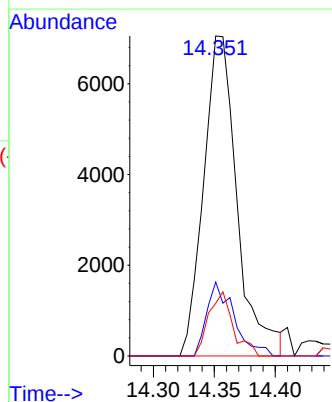
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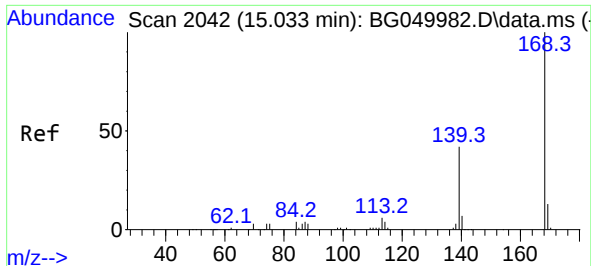


#50  
Acenaphthylene  
Concen: 2.249 ng/ul  
RT: 14.351 min Scan# 1926  
Delta R.T. -0.012 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18



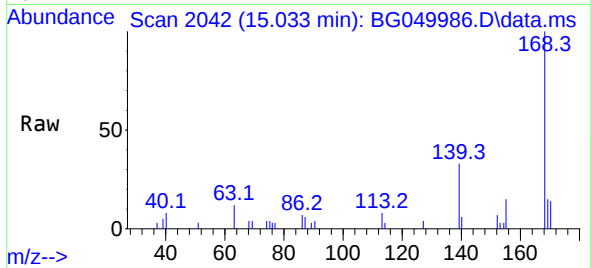
Tgt Ion:152 Resp: 13506  
Ion Ratio Lower Upper  
152 100  
151 23.1 15.2 22.8#  
153 16.4 10.7 16.1#





#56  
Dibenzofuran  
Concen: 1.245 ng/ul  
RT: 15.033 min Scan# 2042  
Delta R.T. -0.006 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

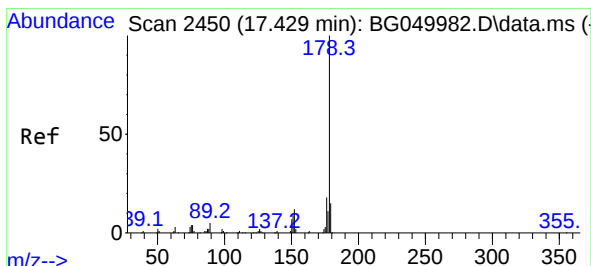
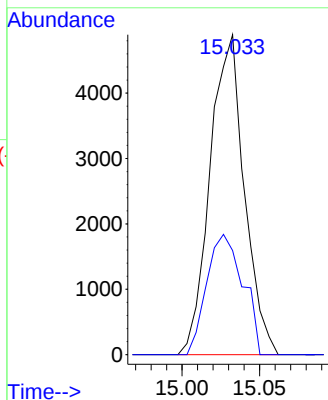
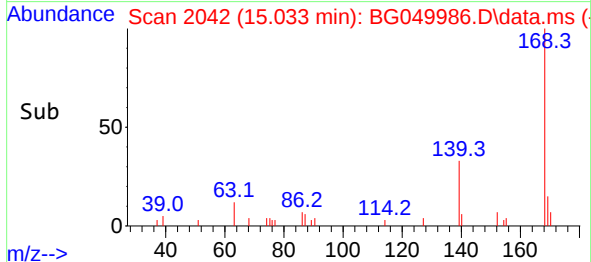
Instrument :  
BNA\_G  
ClientSampled :  
C0AS2



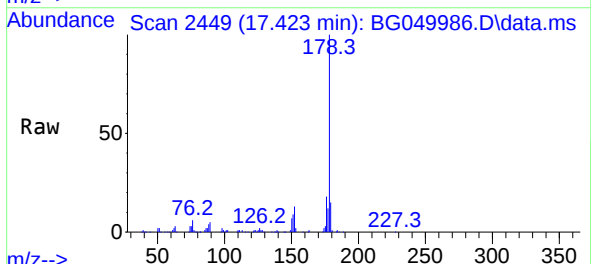
Tgt Ion:168 Resp: 7509  
Ion Ratio Lower Upper  
168 100  
139 32.6 33.8 50.8#

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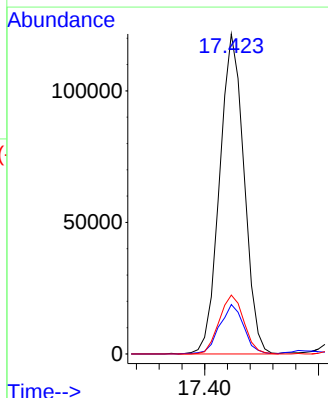
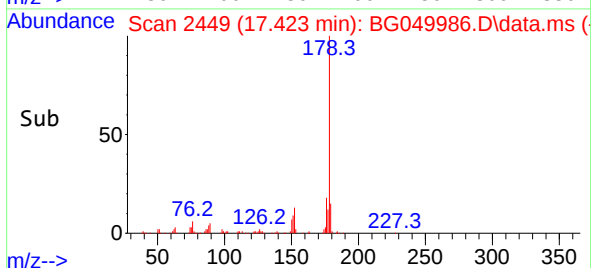
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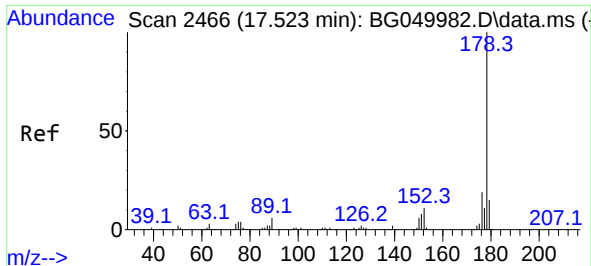


#72  
Phenanthrene  
Concen: 25.382 ng/ul  
RT: 17.423 min Scan# 2449  
Delta R.T. -0.012 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18



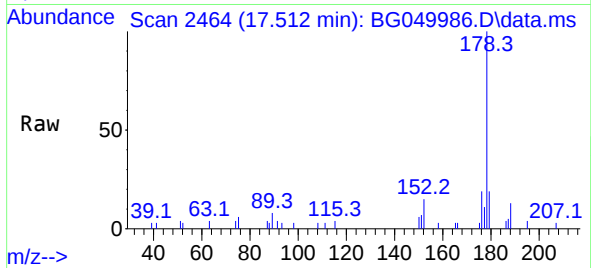
Tgt Ion:178 Resp: 181287  
Ion Ratio Lower Upper  
178 100  
179 15.4 11.7 17.5  
176 18.4 16.2 24.2





#74  
 Anthracene  
 Concen: 1.345 ng/ul m  
 RT: 17.512 min Scan# 2464  
 Delta R.T. -0.012 min  
 Lab File: BG049986.D  
 Acq: 26 Aug 2021 22:18

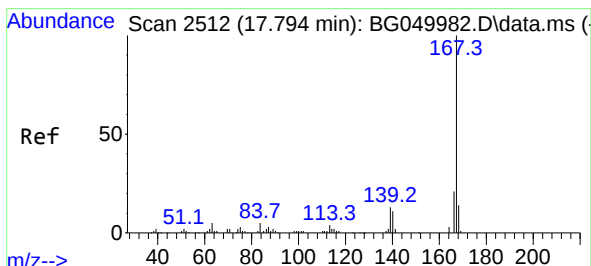
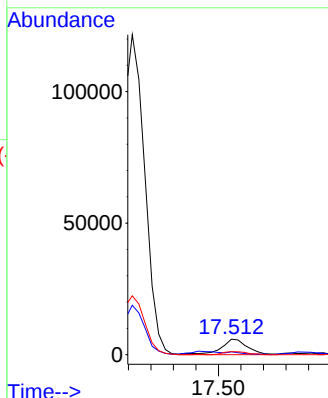
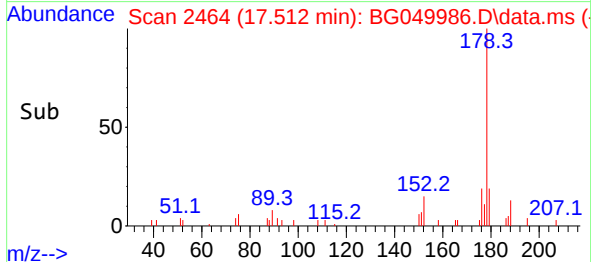
Instrument :  
 BNA\_G  
 ClientSampled :  
 C0AS2



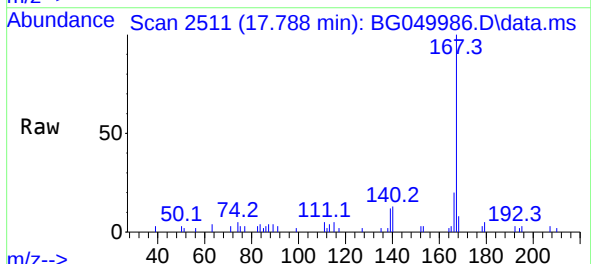
Tgt Ion:178 Resp: 9733  
 Ion Ratio Lower Upper  
 178 100  
 179 19.0 11.4 17.0#  
 176 19.3 12.8 19.2#

Manual Integrations  
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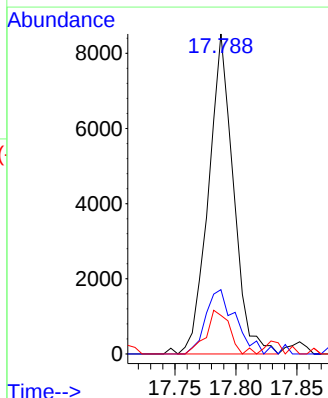
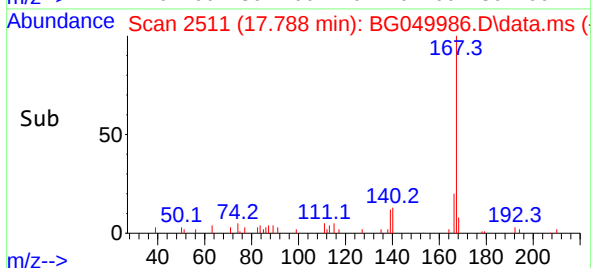
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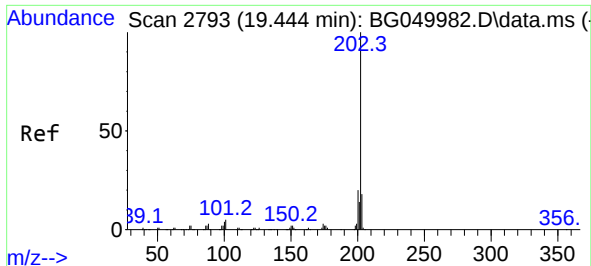


#77  
 Carbazole  
 Concen: 1.881 ng/ul  
 RT: 17.788 min Scan# 2511  
 Delta R.T. -0.012 min  
 Lab File: BG049986.D  
 Acq: 26 Aug 2021 22:18



Tgt Ion:167 Resp: 12112  
 Ion Ratio Lower Upper  
 167 100  
 166 20.1 17.8 26.8  
 139 12.1 11.1 16.7





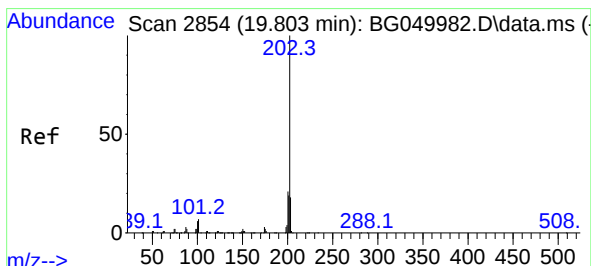
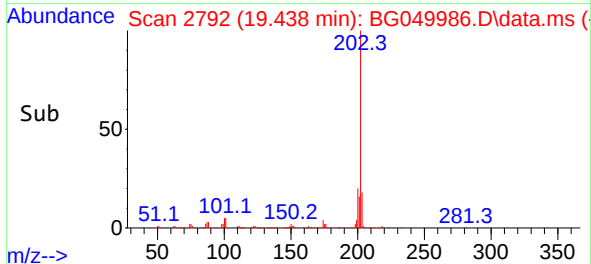
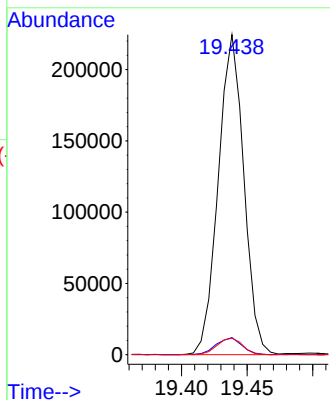
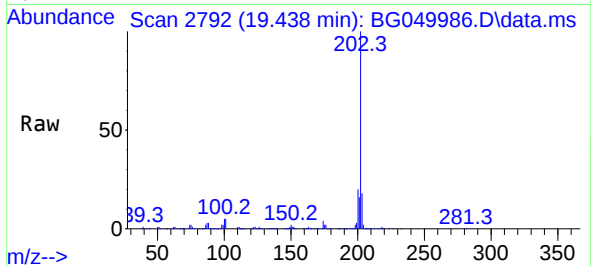
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Fluoranthene  
Concen: 34.844 ng/ul  
RT: 19.438 min Scan# 2792  
Delta R.T. -0.006 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

Instrument :  
BNA\_G  
ClientSampled :  
C0AS2

Tgt Ion:202 Resp: 303906  
Ion Ratio Lower Upper  
202 100  
101 5.3 4.3 6.5  
100 5.2 3.5 5.3

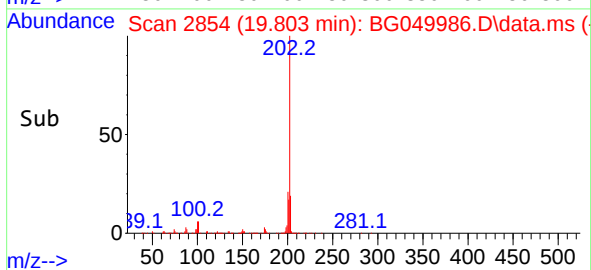
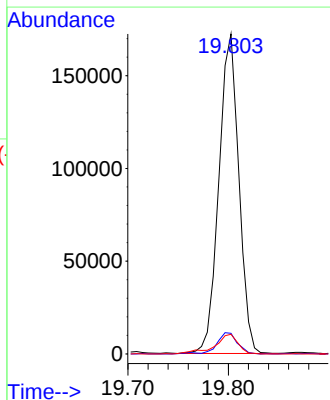
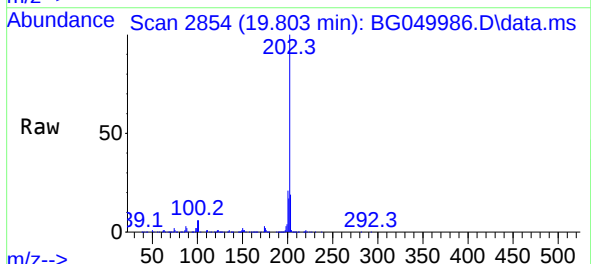
Manual Integrations  
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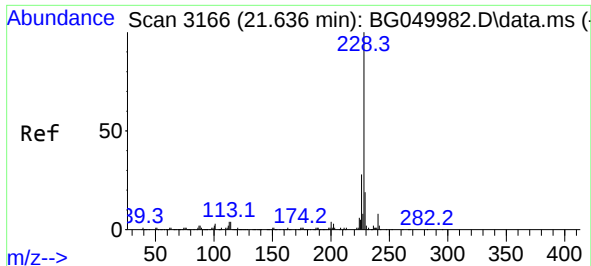
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#82  
Pyrene  
Concen: 27.554 ng/ul  
RT: 19.803 min Scan# 2854  
Delta R.T. -0.006 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

Tgt Ion:202 Resp: 238148  
Ion Ratio Lower Upper  
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101 6.4 5.4 8.0  
100 6.1 5.0 7.6





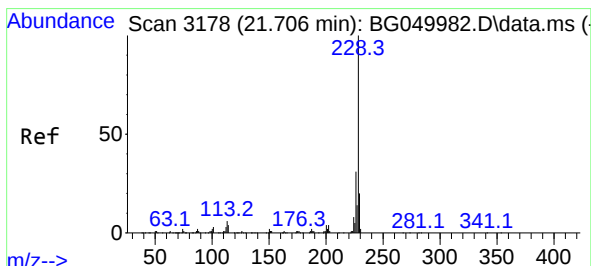
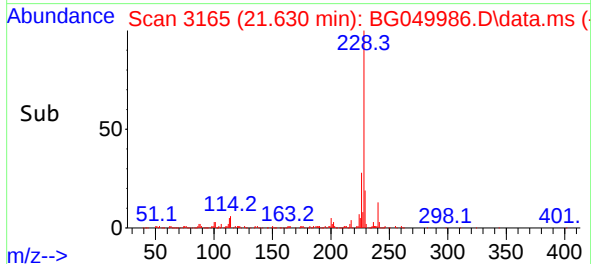
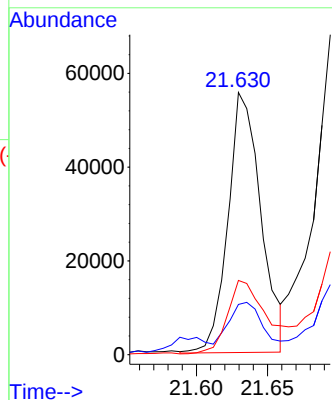
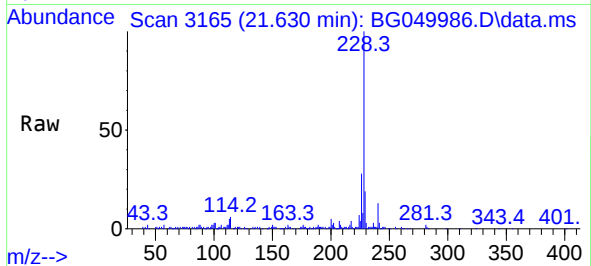
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Benzo(a)anthracene  
Concen: 10.999 ng/u1  
RT: 21.630 min Scan# 3165  
Delta R.T. -0.018 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

Tgt Ion:228 Resp: 89642  
Ion Ratio Lower Upper  
228 100  
229 19.2 16.2 24.4  
226 28.3 21.0 31.4

Instrument :  
BNA\_G  
ClientSampled :  
C0AS2

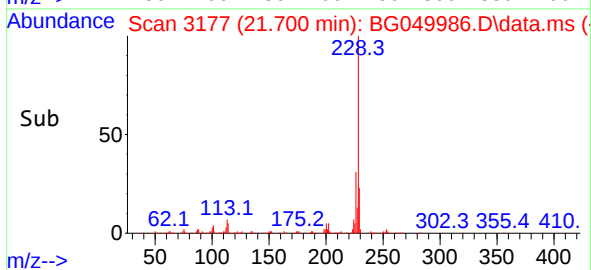
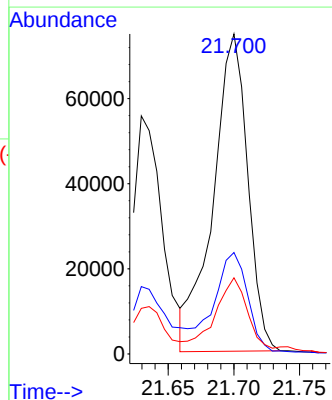
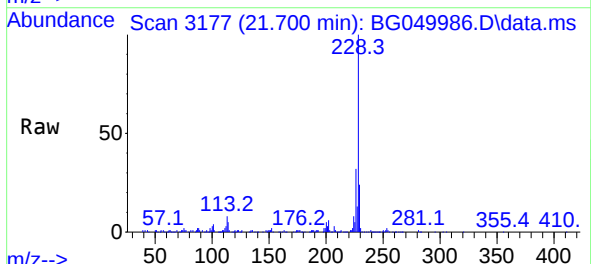
Manual Integrations  
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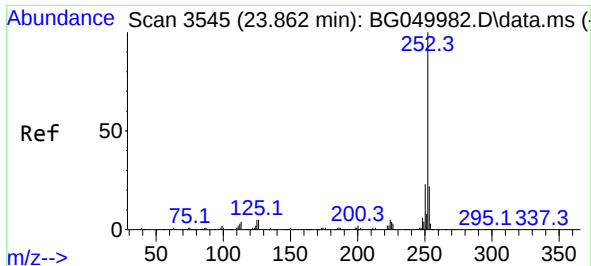
mohammad  
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#87  
Chrysene  
Concen: 17.766 ng/u1  
RT: 21.700 min Scan# 3177  
Delta R.T. -0.012 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

Tgt Ion:228 Resp: 136871  
Ion Ratio Lower Upper  
228 100  
226 31.7 23.0 34.4  
229 23.8 17.8 26.6





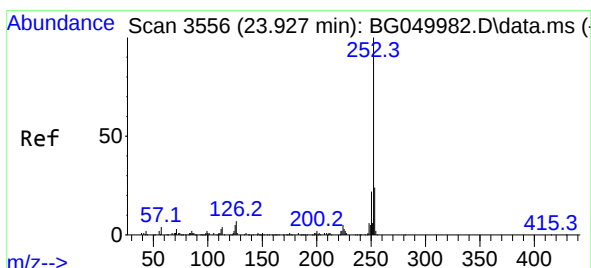
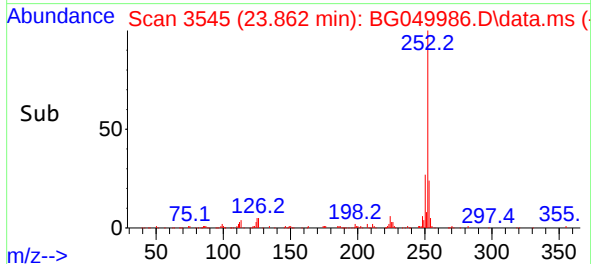
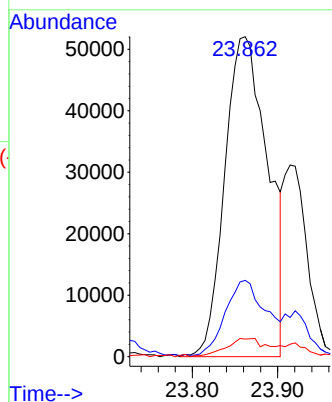
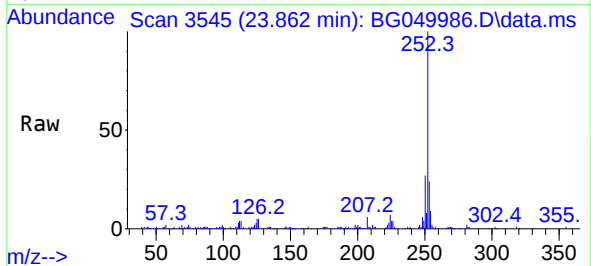
#90  
Benzo(b)fluoranthene  
Concen: 20.885 ng/ul  
RT: 23.862 min Scan# 3545  
Delta R.T. 0.000 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

Instrument :  
BNA\_G  
ClientSampled :  
C0AS2

Tgt Ion:252 Resp: 182356  
Ion Ratio Lower Upper  
252 100  
253 23.8 18.1 27.1  
125 5.5 3.4 5.0#

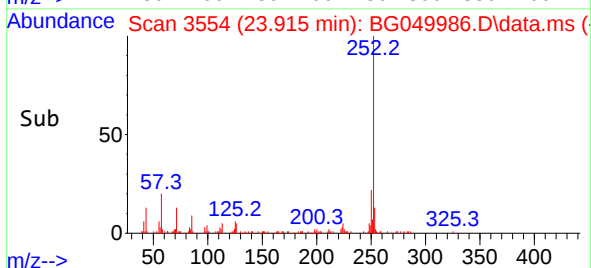
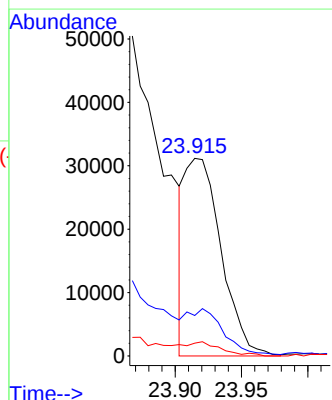
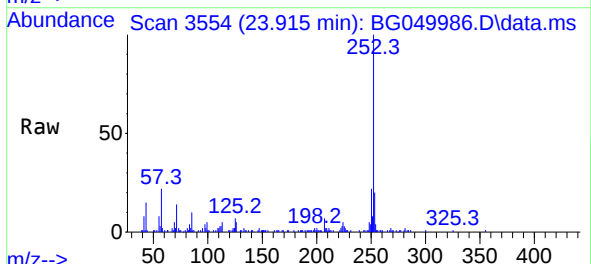
Manual Integrations  
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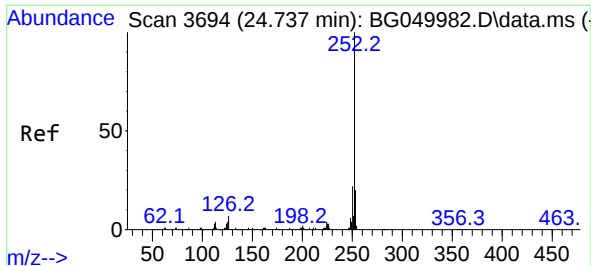
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#91  
Benzo(k)fluoranthene  
Concen: 7.106 ng/ul m  
RT: 23.915 min Scan# 3554  
Delta R.T. -0.018 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

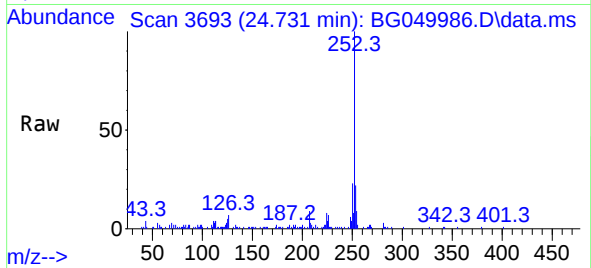
Tgt Ion:252 Resp: 58975  
Ion Ratio Lower Upper  
252 100  
253 20.5 17.7 26.5  
125 6.5 4.1 6.1#





#93  
Benzo(a)pyrene  
Concen: 10.924 ng/ul  
RT: 24.731 min Scan# 3693  
Delta R.T. -0.012 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18

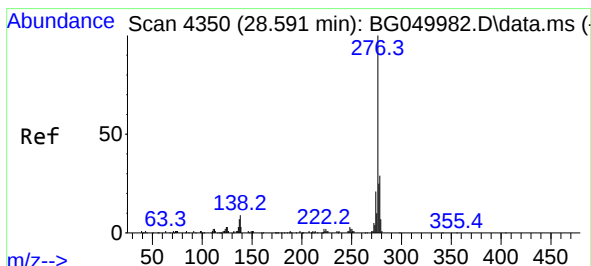
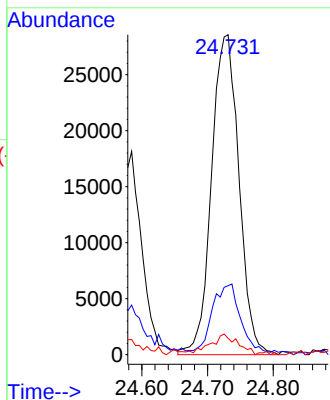
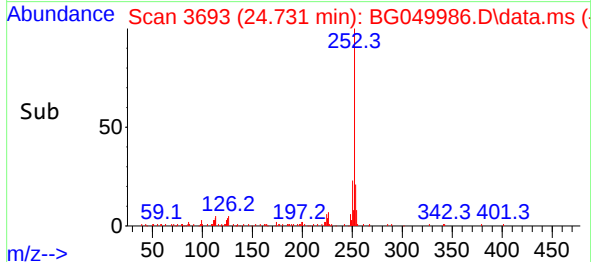
Instrument :  
BNA\_G  
ClientSampled :  
C0AS2



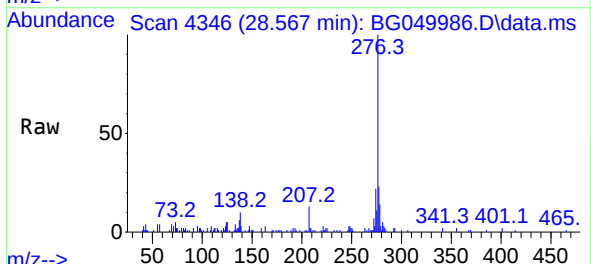
Tgt Ion:252 Resp: 82838  
Ion Ratio Lower Upper  
252 100  
253 21.5 17.0 25.4  
125 5.1 4.4 6.6

Manual Integrations  
APPROVED

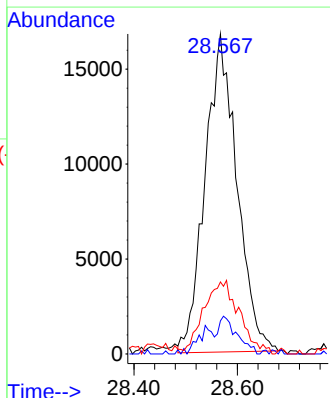
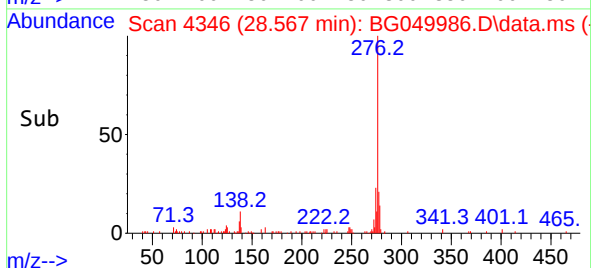
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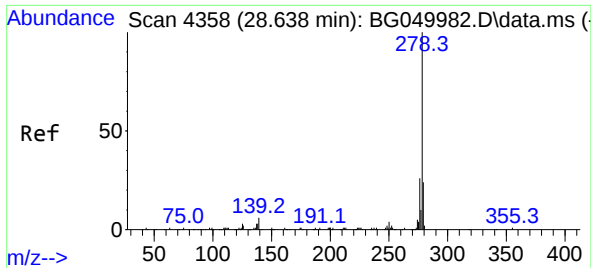


#94  
Indeno(1,2,3-cd)pyrene  
Concen: 7.161 ng/ul  
RT: 28.567 min Scan# 4346  
Delta R.T. -0.024 min  
Lab File: BG049986.D  
Acq: 26 Aug 2021 22:18



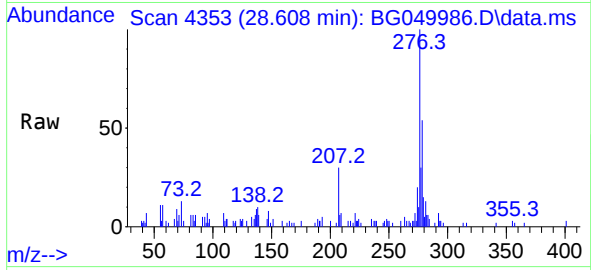
Tgt Ion:276 Resp: 71627  
Ion Ratio Lower Upper  
276 100  
138 10.4 5.5 8.3#  
277 22.5 18.6 27.8





#95  
 Dibenzo(a,h)anthracene  
 Concen: 2.597 ng/ul m  
 RT: 28.608 min Scan# 4353  
 Delta R.T. -0.035 min  
 Lab File: BG049986.D  
 Acq: 26 Aug 2021 22:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AS2



Tgt Ion:278 Resp: 21743  
 Ion Ratio Lower Upper  
 278 100  
 139 11.4 5.2 7.8#  
 279 27.3 19.0 28.4

Manual Integrations  
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