

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050123\  
 Data File : BG057257.D  
 Acq On : 1 May 2023 19:50  
 Operator : CG/JU  
 Sample : 02417-15  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 EW8Y1

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/02/2023  
 Supervised By : Jagrut Upadhyay 05/02/2023

Quant Time: May 01 23:46:37 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG042823.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon May 01 12:45:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.381  | 152  | 17670    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 11.218 | 136  | 72800    | 20.000 | ng/u1  | # 0.00   |
| 38) Acenaphthene-d10          | 14.989 | 164  | 52735    | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.733 | 188  | 116072   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 22.051 | 240  | 99006    | 20.000 | ng/u1  | # 0.00   |
| 88) Perylene-d12              | 25.569 | 264  | 106402   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.658  | 96   | 677      | 1.686  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/u1  |          |
| 7) Phenol-d5                  | 7.517  | 99   | 18139    | 10.855 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.682  | 67   | 11299    | 11.496 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.905  | 132  | 14045    | 12.754 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 9.080  | 113  | 10984    | 8.648  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.556  | 128  | 7547     | 13.018 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.290 | 143  | 8907     | 13.164 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.830 | 165  | 16875    | 12.928 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.347 | 131  | 4035m    | 2.332  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.379 | 166  | 57589    | 13.782 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.690 | 160  | 66909    | 14.247 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.183 | 143  | 3979     | 6.542  | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.976 | 176  | 52818    | 13.569 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 16.088 | 200  | 4648     | 6.759  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.833 | 188  | 76872    | 14.509 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 20.094 | 212  | 90117    | 15.335 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.328 | 264  | 81618    | 15.056 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 8) Phenol                     | 7.570  | 94   | 17610m   | 10.456 | ng/u1  |          |
| 16) Acetophenone              | 9.209  | 105  | 6033     | 2.761  | ng/u1  | 92       |
| 30) Naphthalene               | 11.271 | 128  | 7465     | 1.868  | ng/u1# | 94       |
| 36) 2-Methylnaphthalene       | 12.845 | 142  | 5266     | 1.796  | ng/u1  | 90       |
| 37) 1-Methylnaphthalene       | 13.063 | 142  | 5223     | 1.772  | ng/u1# | 92       |
| 52) Acenaphthene              | 15.054 | 153  | 9586     | 2.819  | ng/u1  | 94       |
| 56) Dibenzofuran              | 15.383 | 168  | 10056    | 2.048  | ng/u1  | 96       |
| 61) Fluorene                  | 16.029 | 166  | 16530    | 3.981  | ng/u1  | 99       |
| 72) Phenanthrene              | 17.774 | 178  | 312163   | 51.644 | ng/u1  | 98       |
| 74) Anthracene                | 17.862 | 178  | 62023    | 10.215 | ng/u1  | 99       |
| 77) Carbazole                 | 18.126 | 167  | 21786    | 4.294  | ng/u1  | 98       |
| 80) Fluoranthene              | 19.765 | 202  | 610671   | 87.478 | ng/u1  | 97       |
| 82) Pyrene                    | 20.130 | 202  | 566139   | 80.111 | ng/u1  | 97       |
| 85) Benzo(a)anthracene        | 22.027 | 228  | 320091   | 45.713 | ng/u1  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.868 | 149  | 10383    | 3.154  | ng/u1# | 97       |
| 87) Chrysene                  | 22.097 | 228  | 299065   | 45.269 | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 24.453 | 252  | 384335   | 52.161 | ng/u1  | 96       |
| 91) Benzo(k)fluoranthene      | 24.506 | 252  | 126844m  | 17.695 | ng/u1  |          |
| 93) Benzo(a)pyrene            | 25.411 | 252  | 274195m  | 43.104 | ng/u1  |          |
| 94) Indeno(1,2,3-cd)pyrene    | 29.634 | 276  | 166496m  | 20.938 | ng/u1  |          |
| 95) Dibenzo(a,h)anthracene    | 29.687 | 278  | 46862m   | 7.107  | ng/u1  |          |
| 96) Benzo(g,h,i)perylene      | 30.927 | 276  | 135760m  | 21.096 | ng/u1  |          |
| -----                         |        |      |          |        |        |          |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050123\  
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Operator : CG/JU  
Sample : 02417-15  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
EW8Y1

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023

Quant Time: May 01 23:46:37 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG042823.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon May 01 12:45:38 2023  
Response via : Initial Calibration

| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

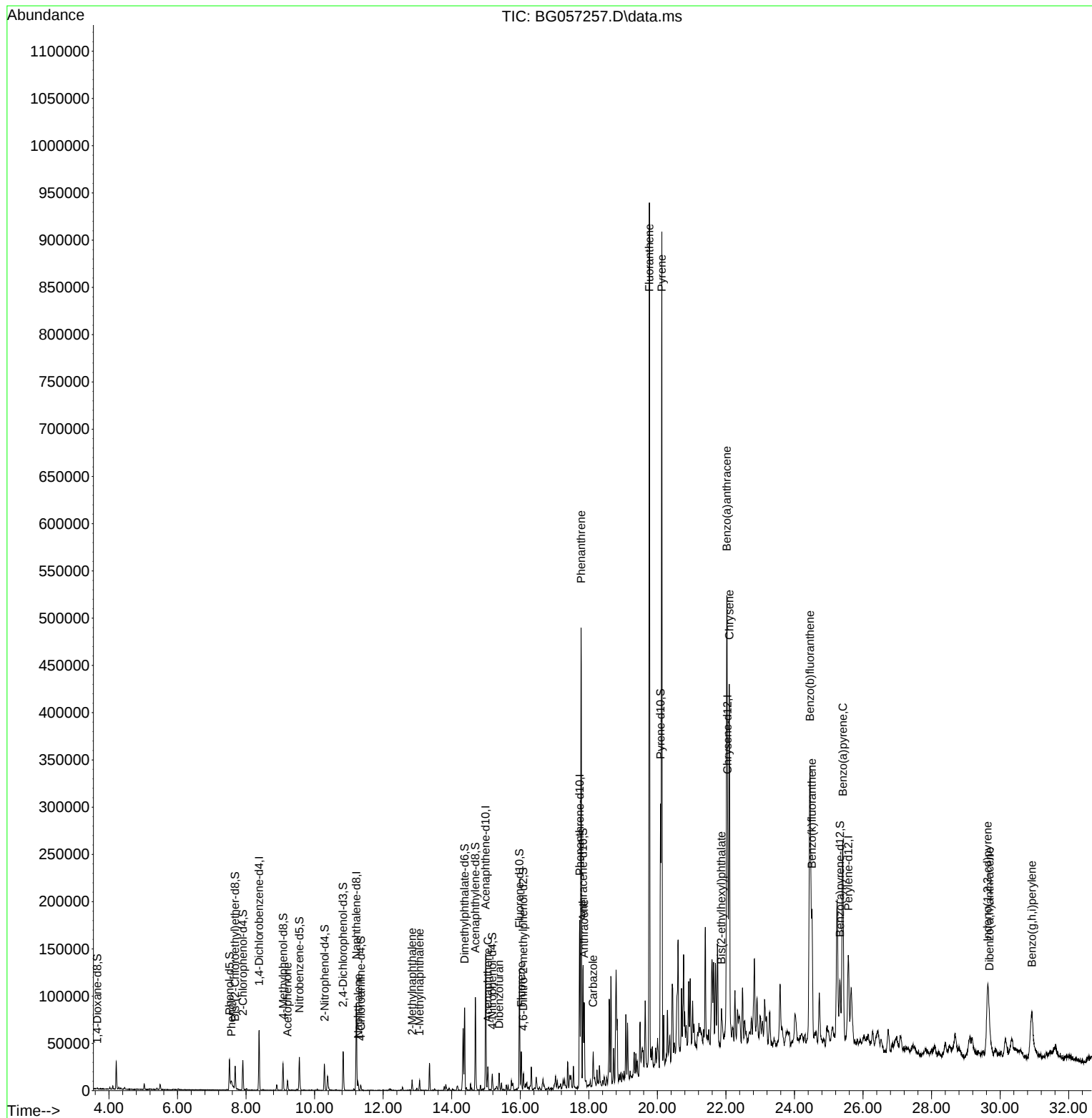
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG050123\  
Data File : BG057257.D  
Acq On : 1 May 2023 19:50  
Operator : CG/JU  
Sample : 02417-15  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

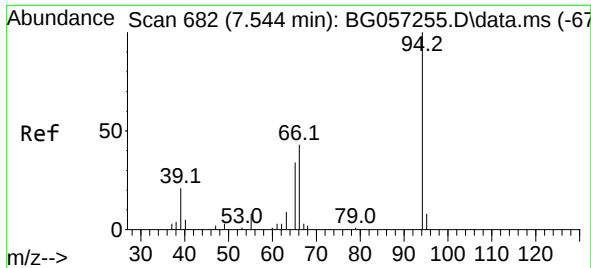
Instrument :  
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ClientSampleId :  
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Quant Time: May 01 23:46:37 2023  
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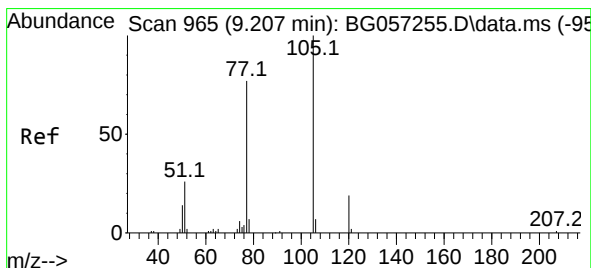
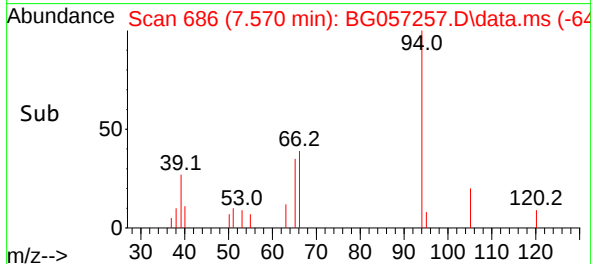
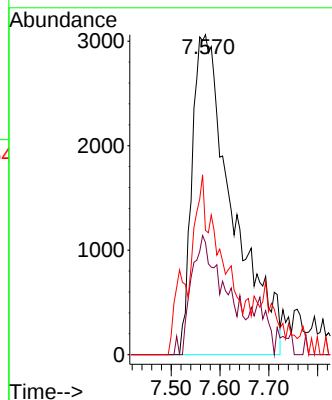
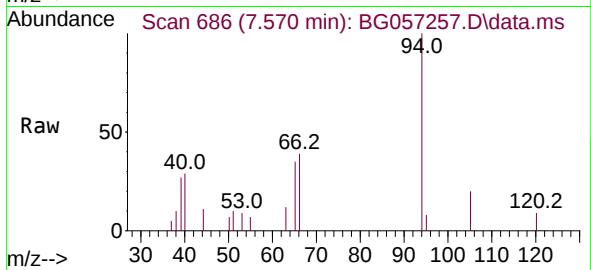
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Phenol  
Concen: 10.456 ng/ul m  
RT: 7.570 min Scan# 682  
Delta R.T. 0.029 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

Instrument :  
BNA\_G  
ClientSampleId :  
EW8Y1

Tgt Ion: 94 Resp: 17610  
Ion Ratio Lower Upper  
94 100  
65 35.0 25.5 38.3  
66 38.8 36.9 55.3

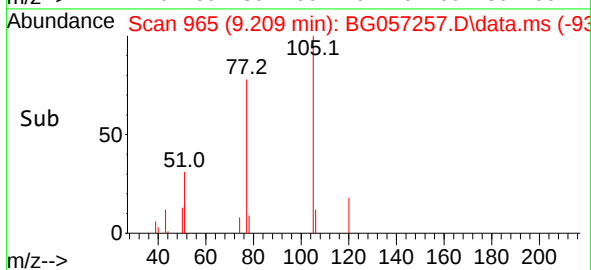
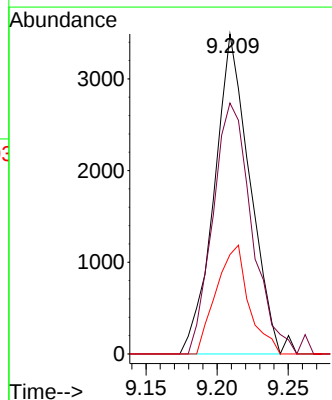
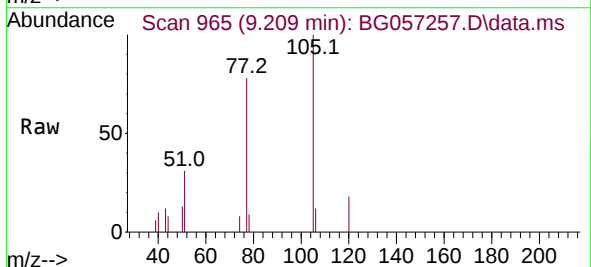
Manual Integrations  
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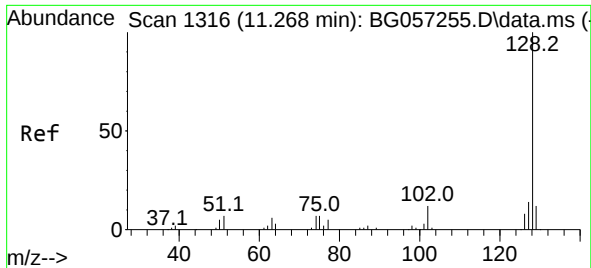
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#16  
Acetophenone  
Concen: 2.761 ng/ul  
RT: 9.209 min Scan# 965  
Delta R.T. -0.000 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

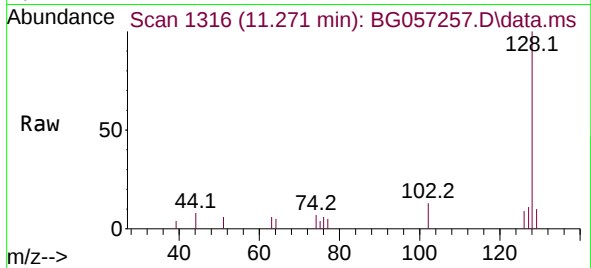
Tgt Ion:105 Resp: 6033  
Ion Ratio Lower Upper  
105 100  
77 78.4 70.6 105.8  
51 31.0 24.5 36.7





#30  
Naphthalene  
Concen: 1.868 ng/ul  
RT: 11.271 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

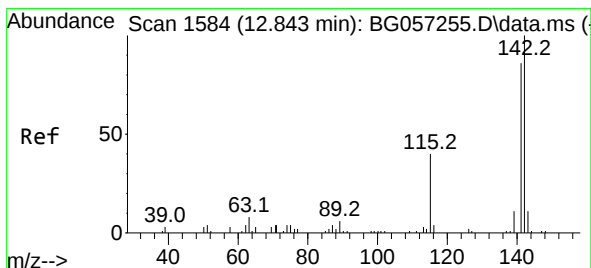
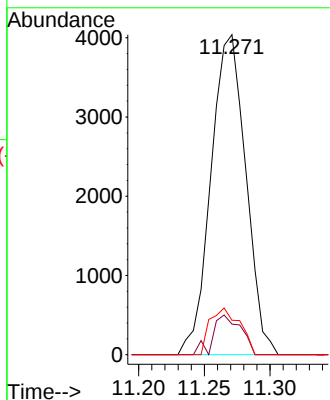
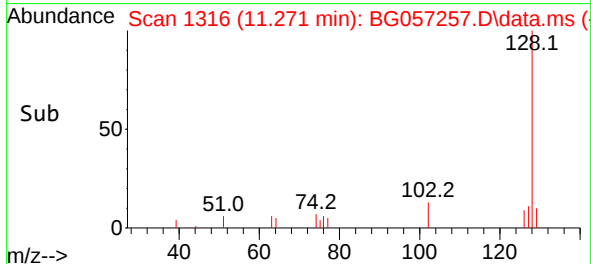
Instrument :  
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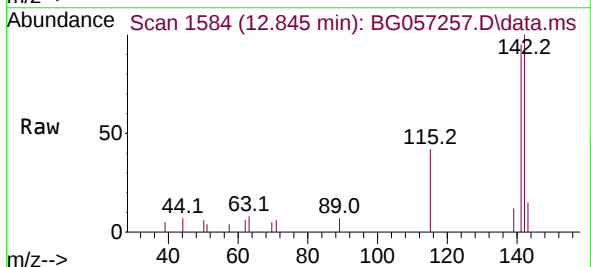
Tgt Ion:128 Resp: 746  
Ion Ratio Lower Upper  
128 100  
129 9.5 8.5 12.7  
127 10.7 11.4 17.0

Manual Integrations  
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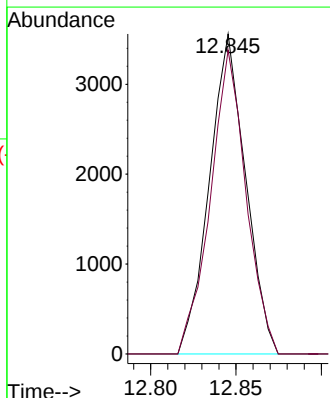
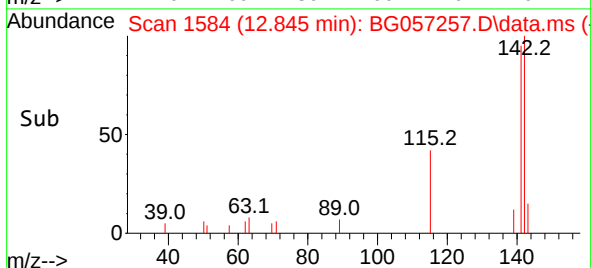
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023

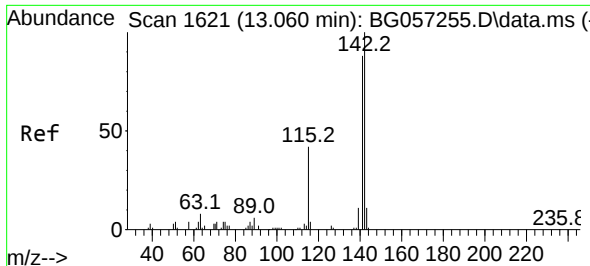


#36  
2-Methylnaphthalene  
Concen: 1.796 ng/ul  
RT: 12.845 min Scan# 1584  
Delta R.T. -0.000 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50



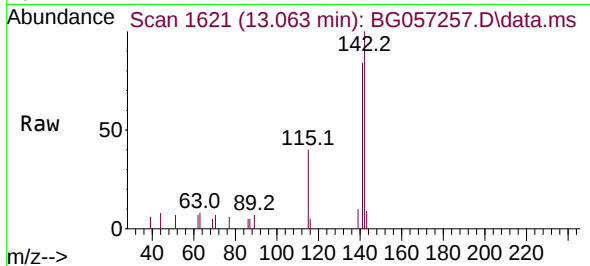
Tgt Ion:142 Resp: 5266  
Ion Ratio Lower Upper  
142 100  
141 94.9 68.7 103.1





#37  
1-Methylnaphthalene  
Concen: 1.772 ng/ul  
RT: 13.063 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

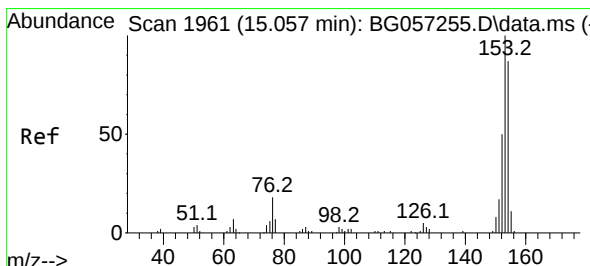
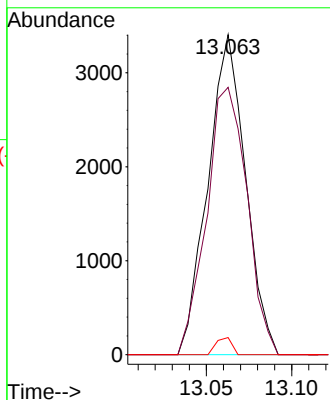
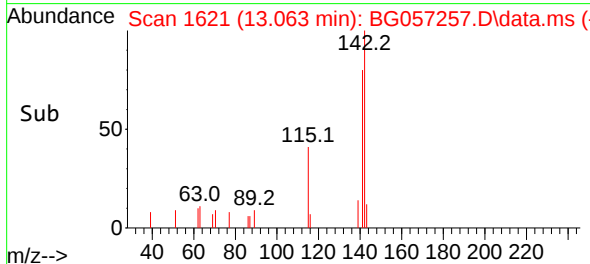
Instrument :  
BNA\_G  
ClientSampleId :  
EW8Y1



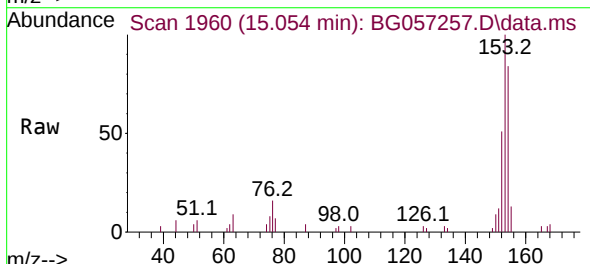
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Ion Ratio Lower Upper  
142 100  
141 83.5 72.9 109.3  
116 5.4 3.2 4.8

Manual Integrations  
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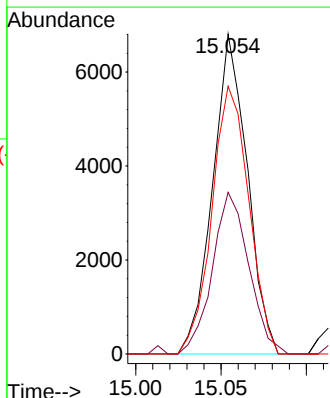
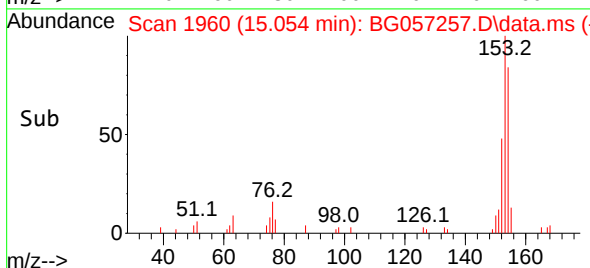
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023

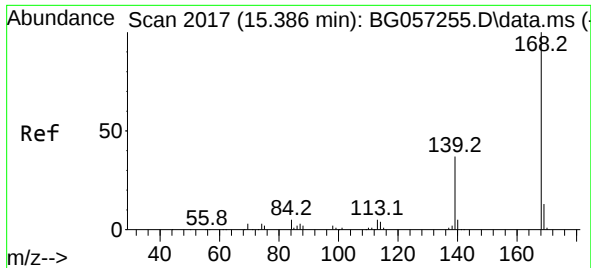


#52  
Acenaphthene  
Concen: 2.819 ng/ul  
RT: 15.054 min Scan# 1960  
Delta R.T. -0.006 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50



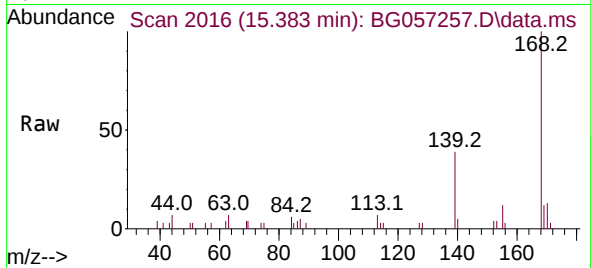
Tgt Ion:153 Resp: 9586  
Ion Ratio Lower Upper  
153 100  
152 50.5 36.5 54.7  
154 83.7 70.6 106.0





#56  
Dibenzofuran  
Concen: 2.048 ng/ul  
RT: 15.383 min Scan# 2016  
Delta R.T. -0.006 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

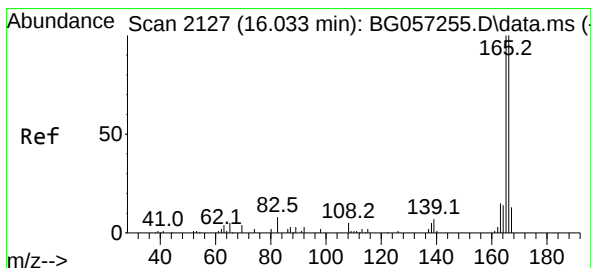
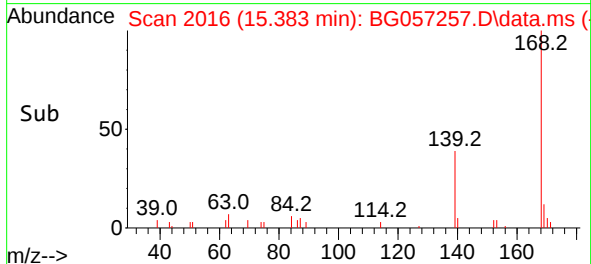
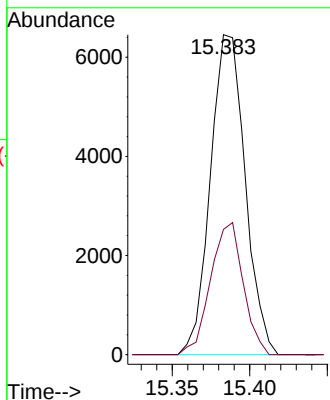
Instrument :  
BNA\_G  
ClientSampleId :  
EW8Y1



Tgt Ion:168 Resp: 10050  
Ion Ratio Lower Upper  
168 100  
139 39.1 29.6 44.4

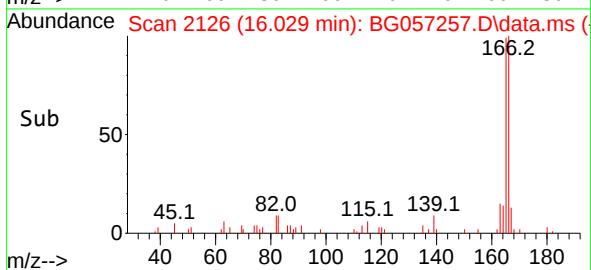
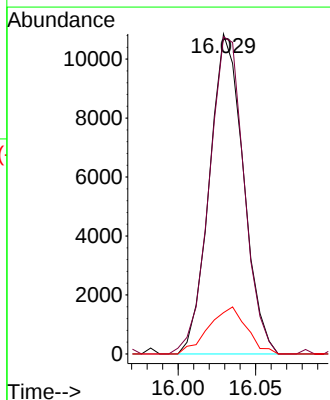
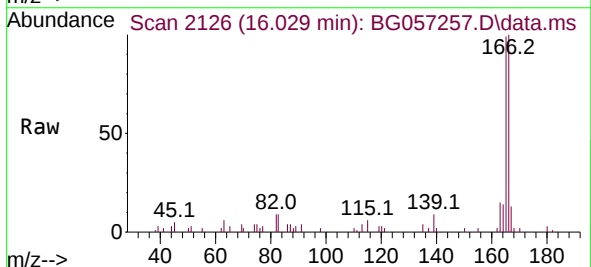
Manual Integrations  
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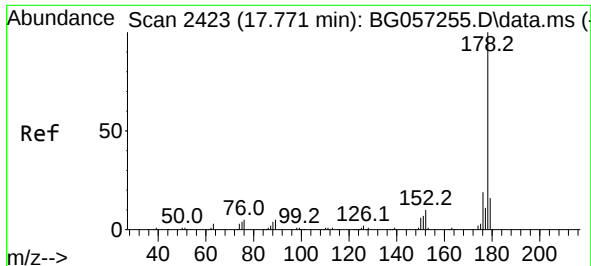
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#61  
Fluorene  
Concen: 3.981 ng/ul  
RT: 16.029 min Scan# 2126  
Delta R.T. -0.006 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

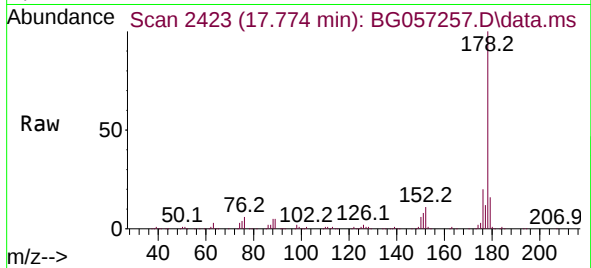
Tgt Ion:166 Resp: 16530  
Ion Ratio Lower Upper  
166 100  
165 99.1 80.1 120.1  
167 12.9 10.2 15.4





#72  
Phenanthrene  
Concen: 51.644 ng/uI  
RT: 17.774 min Scan# 2423  
Delta R.T. -0.000 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

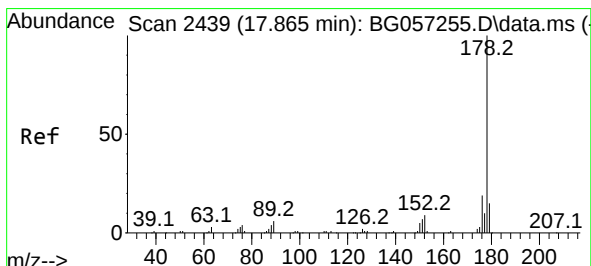
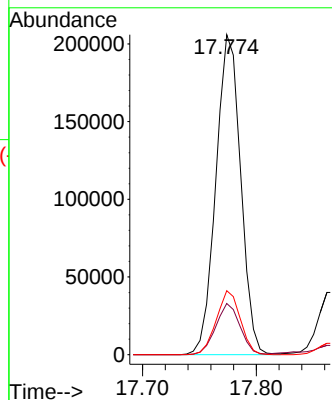
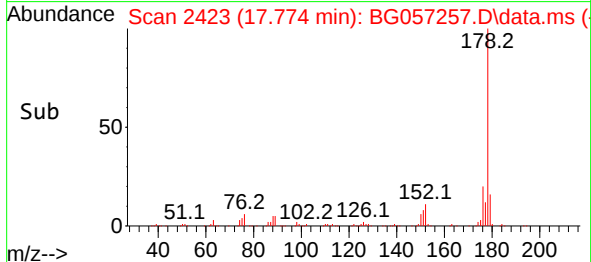
Instrument :  
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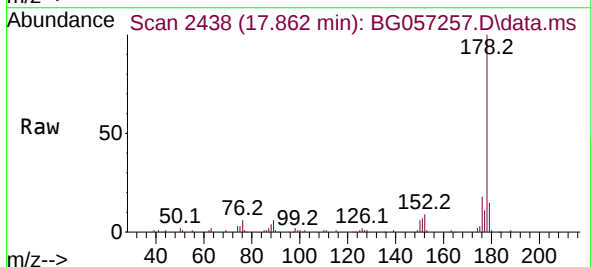
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Ion Ratio Lower Upper  
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176 20.0 15.4 23.0

Manual Integrations  
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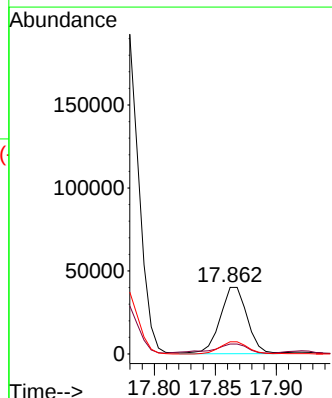
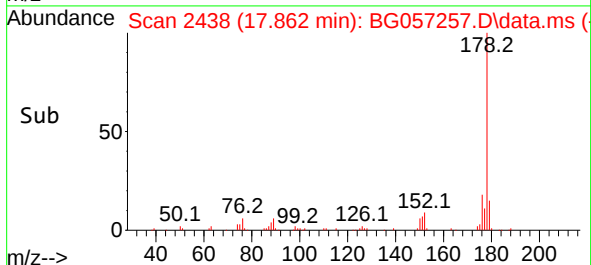
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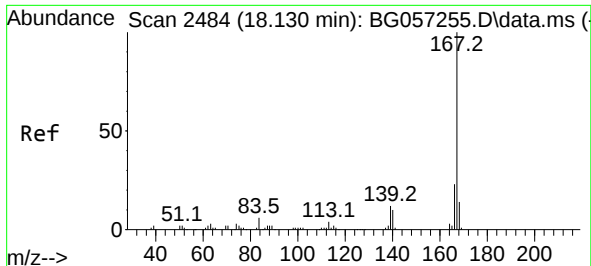


#74  
Anthracene  
Concen: 10.215 ng/uI  
RT: 17.862 min Scan# 2438  
Delta R.T. -0.006 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50



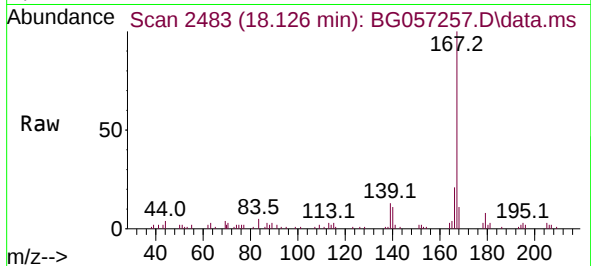
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Ion Ratio Lower Upper  
178 100  
179 15.0 12.5 18.7  
176 18.3 14.7 22.1





#77  
 Carbazole  
 Concen: 4.294 ng/ul  
 RT: 18.126 min Scan# 2483  
 Delta R.T. -0.006 min  
 Lab File: BG057257.D  
 Acq: 1 May 2023 19:50

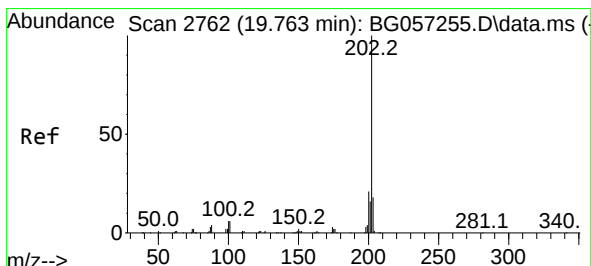
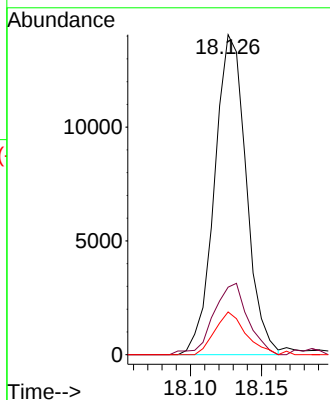
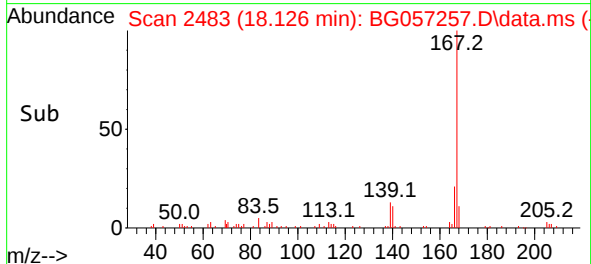
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EW8Y1



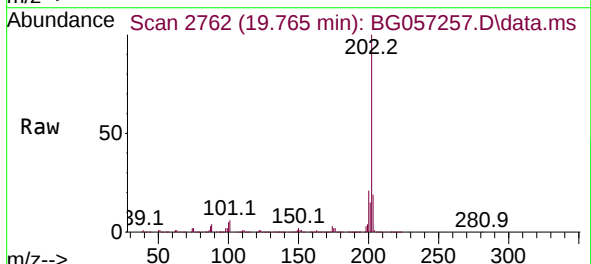
Tgt Ion:167 Resp: 21780  
 Ion Ratio Lower Upper  
 167 100  
 166 21.1 18.0 27.0  
 139 13.3 10.3 15.5

Manual Integrations  
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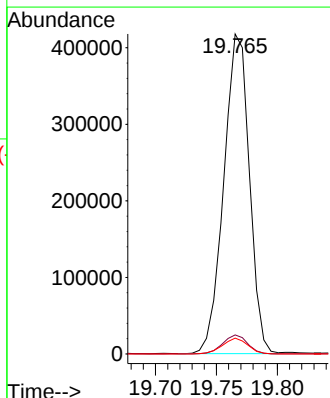
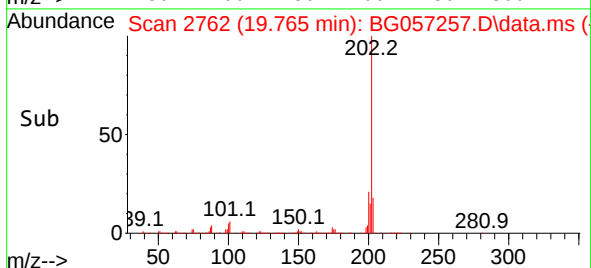
Reviewed By :Christian Giraldo 05/02/2023  
 Supervised By :Jagrut Upadhyay 05/02/2023

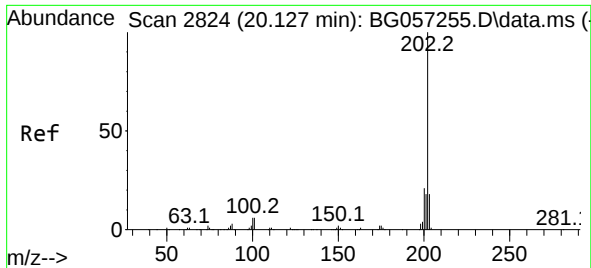


#80  
 Fluoranthene  
 Concen: 87.478 ng/ul  
 RT: 19.765 min Scan# 2762  
 Delta R.T. -0.000 min  
 Lab File: BG057257.D  
 Acq: 1 May 2023 19:50



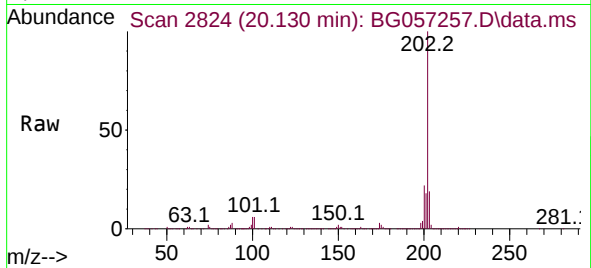
Tgt Ion:202 Resp: 610671  
 Ion Ratio Lower Upper  
 202 100  
 101 6.0 5.8 8.6  
 100 5.0 4.6 7.0





#82  
 Pyrene  
 Concen: 80.111 ng/uI  
 RT: 20.130 min Scan# 2824  
 Delta R.T. 0.005 min  
 Lab File: BG057257.D  
 Acq: 1 May 2023 19:50

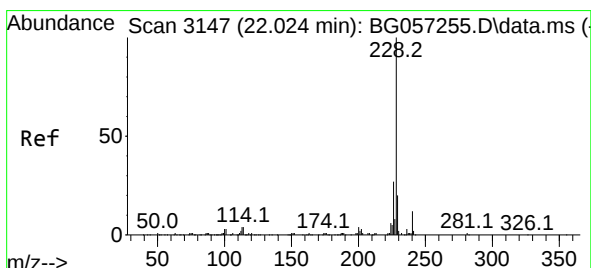
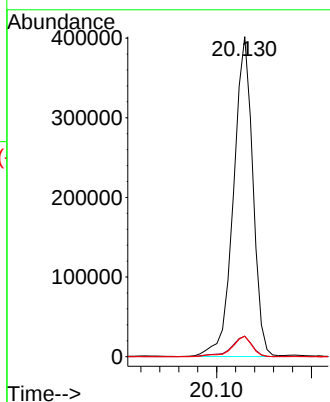
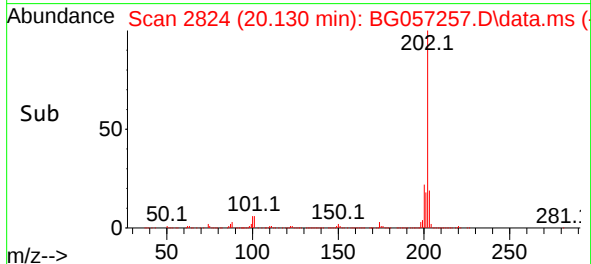
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EW8Y1



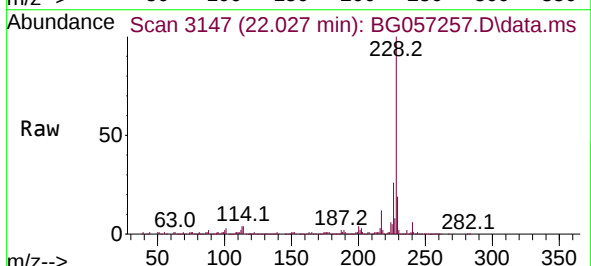
Tgt Ion:202 Resp: 566139  
 Ion Ratio Lower Upper  
 202 100  
 101 6.4 5.7 8.5  
 100 6.4 6.0 9.0

Manual Integrations  
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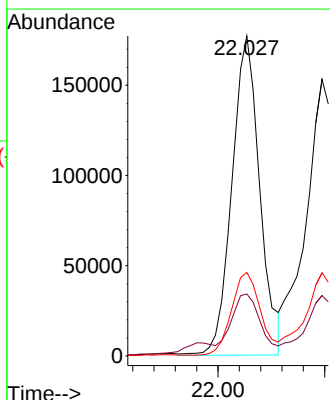
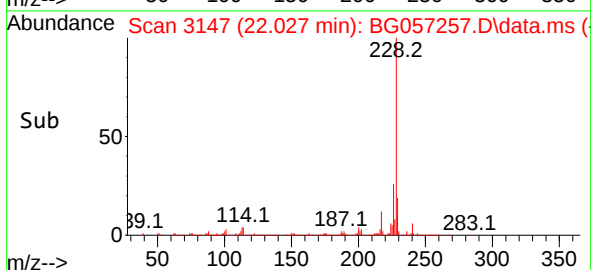
Reviewed By :Christian Giraldo 05/02/2023  
 Supervised By :Jagrut Upadhyay 05/02/2023

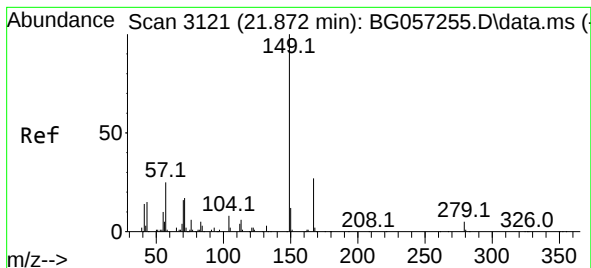


#85  
 Benzo(a)anthracene  
 Concen: 45.713 ng/uI  
 RT: 22.027 min Scan# 3147  
 Delta R.T. -0.000 min  
 Lab File: BG057257.D  
 Acq: 1 May 2023 19:50



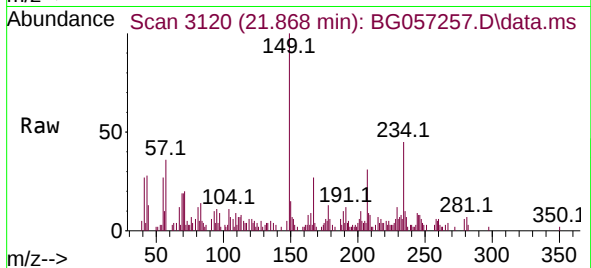
Tgt Ion:228 Resp: 320091  
 Ion Ratio Lower Upper  
 228 100  
 229 19.4 15.8 23.6  
 226 26.1 21.7 32.5





#86  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.154 ng/ul  
 RT: 21.868 min Scan# 3121  
 Delta R.T. -0.006 min  
 Lab File: BG057257.D  
 Acq: 1 May 2023 19:50

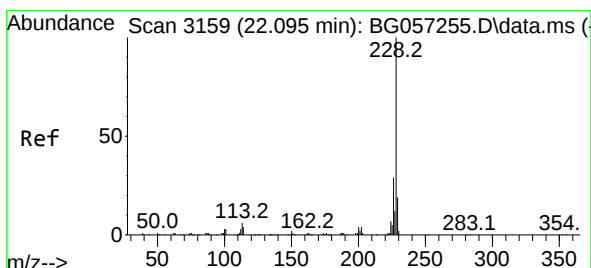
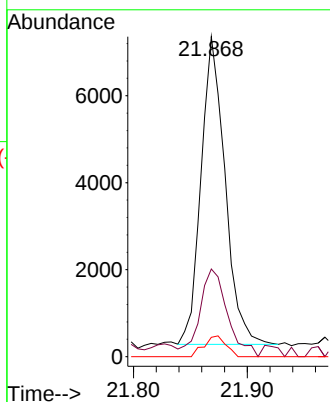
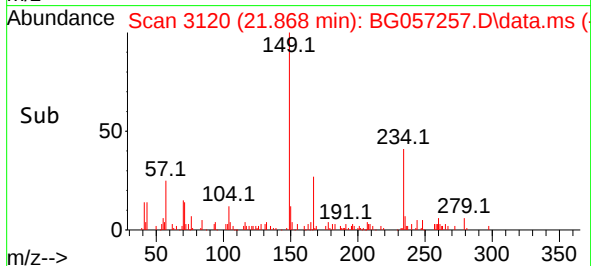
Instrument :  
 BNA\_G  
 ClientSampleId :  
 EW8Y1



Tgt Ion:149 Resp: 1038  
 Ion Ratio Lower Upper  
 149 100  
 167 27.4 23.0 34.6  
 279 6.1 3.6 5.4

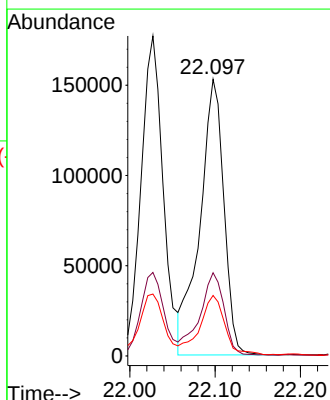
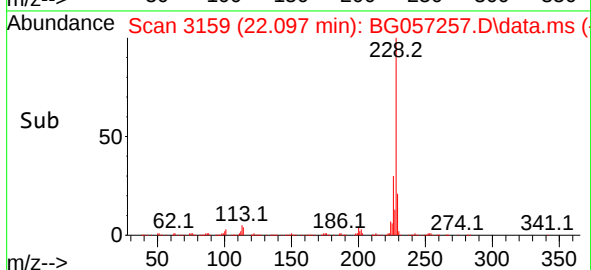
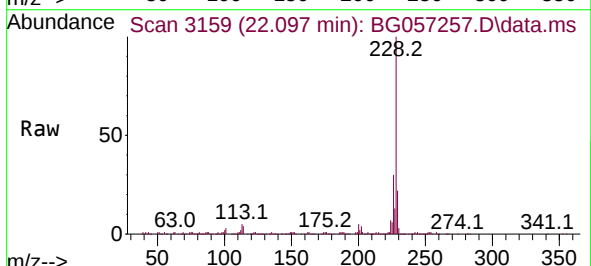
Manual Integrations  
 APPROVED

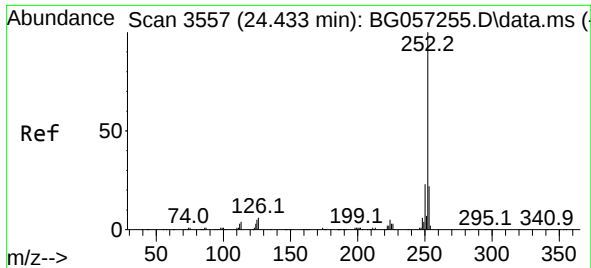
Reviewed By :Christian Giraldo 05/02/2023  
 Supervised By :Jagrut Upadhyay 05/02/2023



#87  
 Chrysene  
 Concen: 45.269 ng/ul  
 RT: 22.097 min Scan# 3159  
 Delta R.T. -0.000 min  
 Lab File: BG057257.D  
 Acq: 1 May 2023 19:50

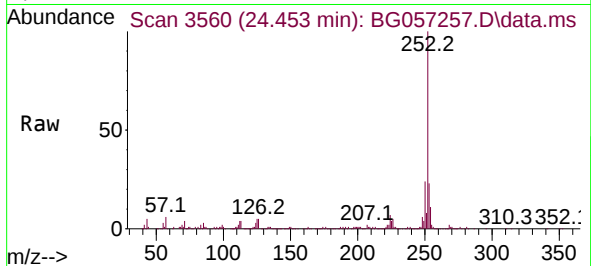
Tgt Ion:228 Resp: 299065  
 Ion Ratio Lower Upper  
 228 100  
 226 30.1 22.8 34.2  
 229 21.9 15.5 23.3





#90  
Benzo(b)fluoranthene  
Concen: 52.161 ng/ul  
RT: 24.453 min Scan# 3560  
Delta R.T. 0.017 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

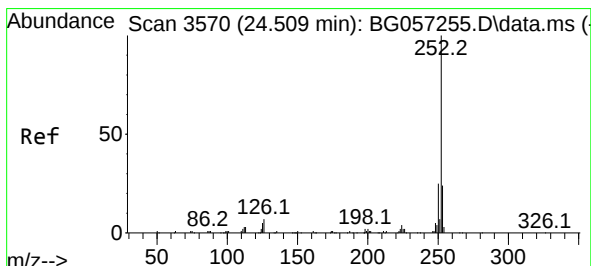
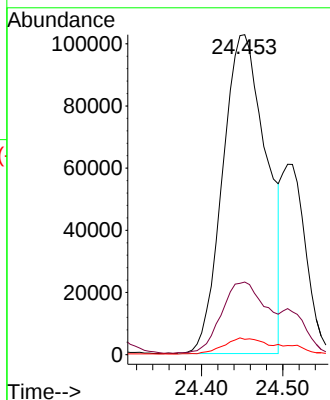
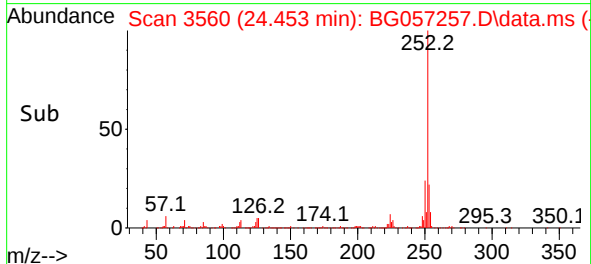
Instrument :  
BNA\_G  
ClientSampleId :  
EW8Y1



Tgt Ion:252 Resp: 38433  
Ion Ratio Lower Upper  
252 100  
253 22.7 16.7 25.1  
125 4.8 4.8 7.2

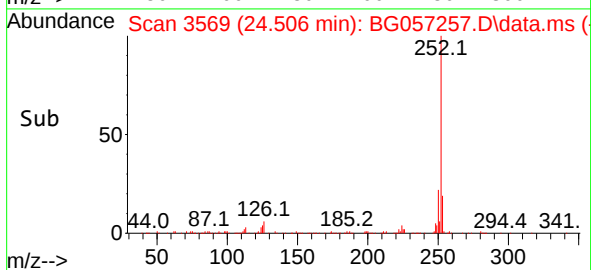
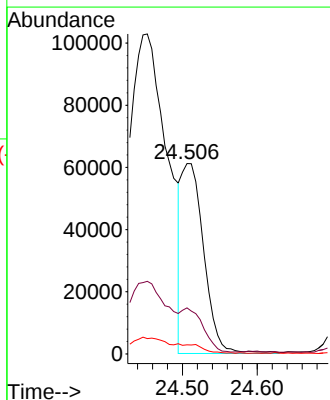
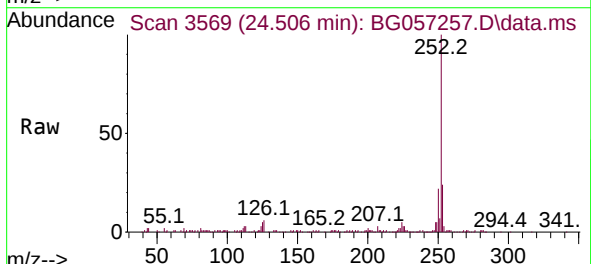
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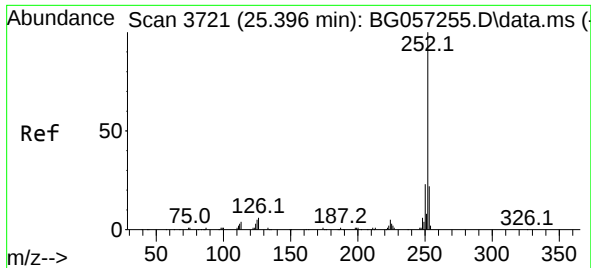
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#91  
Benzo(k)fluoranthene  
Concen: 17.695 ng/ul m  
RT: 24.506 min Scan# 3569  
Delta R.T. -0.006 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

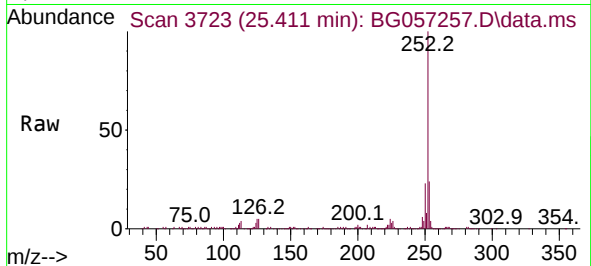
Tgt Ion:252 Resp: 126844  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.7 26.5  
125 4.8 4.5 6.7





#93  
Benzo(a)pyrene  
Concen: 43.104 ng/ul m  
RT: 25.411 min Scan# 3723  
Delta R.T. 0.011 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

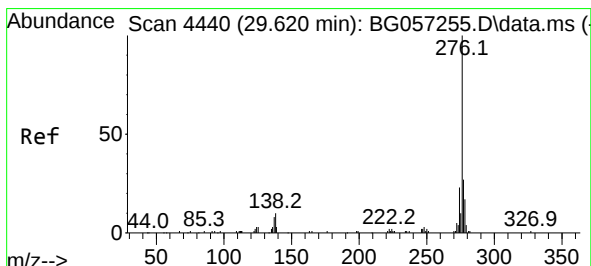
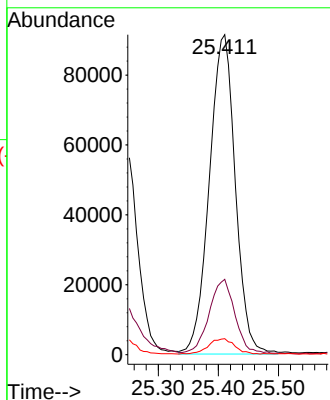
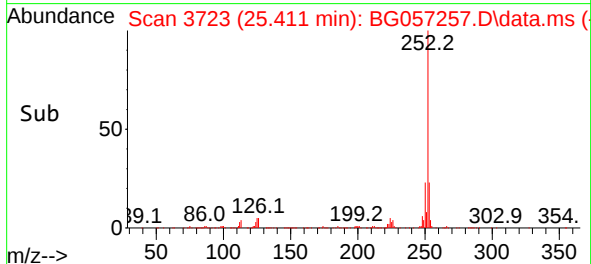
Instrument :  
BNA\_G  
ClientSampleId :  
EW8Y1



Tgt Ion:252 Resp: 27419  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.2 25.8  
125 5.0 5.1 7.7

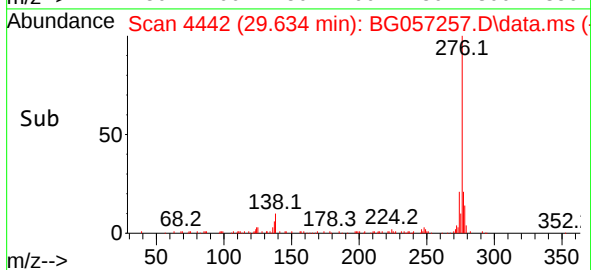
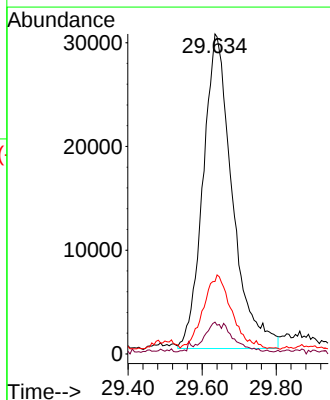
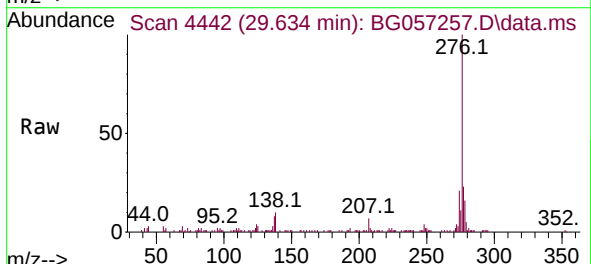
Manual Integrations  
APPROVED

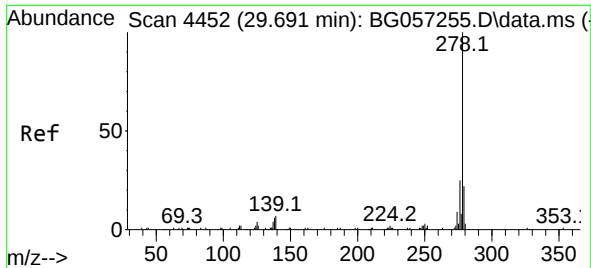
Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#94  
Indeno(1,2,3-cd)pyrene  
Concen: 20.938 ng/ul m  
RT: 29.634 min Scan# 4442  
Delta R.T. 0.011 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

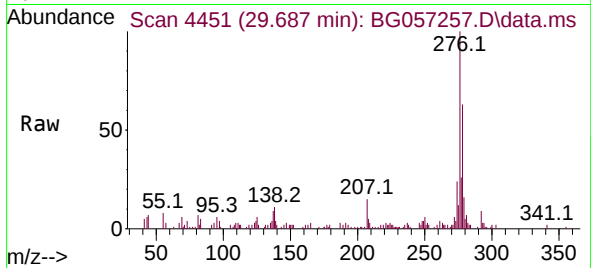
Tgt Ion:276 Resp: 166496  
Ion Ratio Lower Upper  
276 100  
138 9.9 9.4 14.2  
277 22.7 18.6 28.0





#95  
Dibenzo(a,h)anthracene  
Concen: 7.107 ng/ul m  
RT: 29.687 min Scan# 4452  
Delta R.T. -0.006 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50

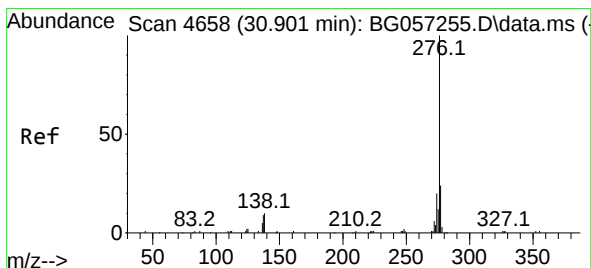
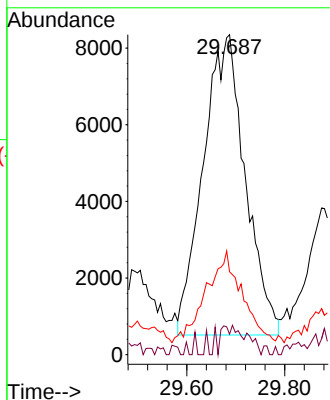
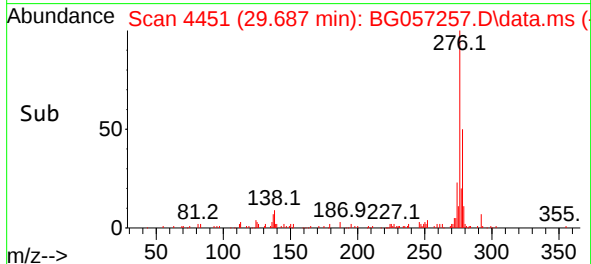
Instrument :  
BNA\_G  
ClientSampleId :  
EW8Y1



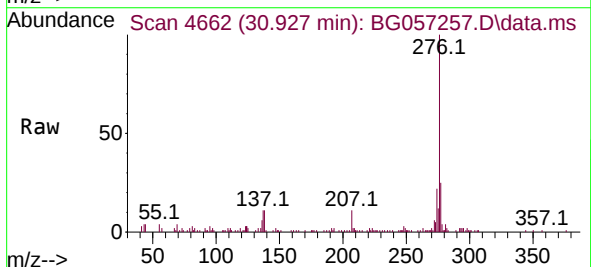
Tgt Ion:278 Resp: 46862  
Ion Ratio Lower Upper  
278 100  
139 6.4 5.8 8.6  
279 25.9 18.3 27.5

Manual Integrations  
APPROVED

Reviewed By :Christian Giraldo 05/02/2023  
Supervised By :Jagrut Upadhyay 05/02/2023



#96  
Benzo(g,h,i)perylene  
Concen: 21.096 ng/ul m  
RT: 30.927 min Scan# 4662  
Delta R.T. 0.017 min  
Lab File: BG057257.D  
Acq: 1 May 2023 19:50



Tgt Ion:276 Resp: 135760  
Ion Ratio Lower Upper  
276 100  
138 10.6 8.7 13.1  
277 25.3 18.4 27.6

