

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090222\  
 Data File : BG054842.D  
 Acq On : 2 Sep 2022 16:10  
 Operator : CG/JU  
 Sample : N4464-01  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-1

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 09/06/2022  
 Supervised By : Jagrut Upadhyay 09/06/2022

Quant Time: Sep 03 00:27:57 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 25 17:50:55 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.147  | 152  | 39074    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.973 | 136  | 168000   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.780 | 164  | 115044   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.524 | 188  | 247388   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.819 | 240  | 230473   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 25.186 | 264  | 242324   | 20.000  | ng    | -0.01    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.685  | 112  | 217742   | 97.038  | ng    | 0.00     |
| 7) Phenol-d6                | 7.295  | 99   | 307954   | 100.354 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.316  | 82   | 181740   | 56.790  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.267 | 330  | 133499   | 92.866  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.405 | 172  | 442464   | 57.807  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.121 | 244  | 660454   | 56.780  | ng    | -0.01    |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.565 | 178  | 109563   | 8.314   | ng    | 99       |
| 75) Fluoranthene            | 19.575 | 202  | 359410   | 22.419  | ng    | 98       |
| 78) Pyrene                  | 19.933 | 202  | 355829   | 22.141  | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.795 | 228  | 187521   | 12.000  | ng    | 98       |
| 83) Chrysene                | 21.866 | 228  | 204811   | 13.708  | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene  | 29.058 | 276  | 182786   | 9.936   | ng    | # 96     |
| 88) Benzo(b)fluoranthene    | 24.110 | 252  | 326825   | 21.500  | ng    | 100      |
| 89) Benzo(k)fluoranthene    | 24.175 | 252  | 112643m  | 7.363   | ng    |          |
| 90) Benzo(a)pyrene          | 25.027 | 252  | 223450   | 17.205  | ng    | 99       |
| 91) Dibenzo(a,h)anthracene  | 29.099 | 278  | 46611    | 3.110   | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 30.280 | 276  | 182652   | 12.063  | ng    | 98       |
| -----                       |        |      |          |         |       |          |

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

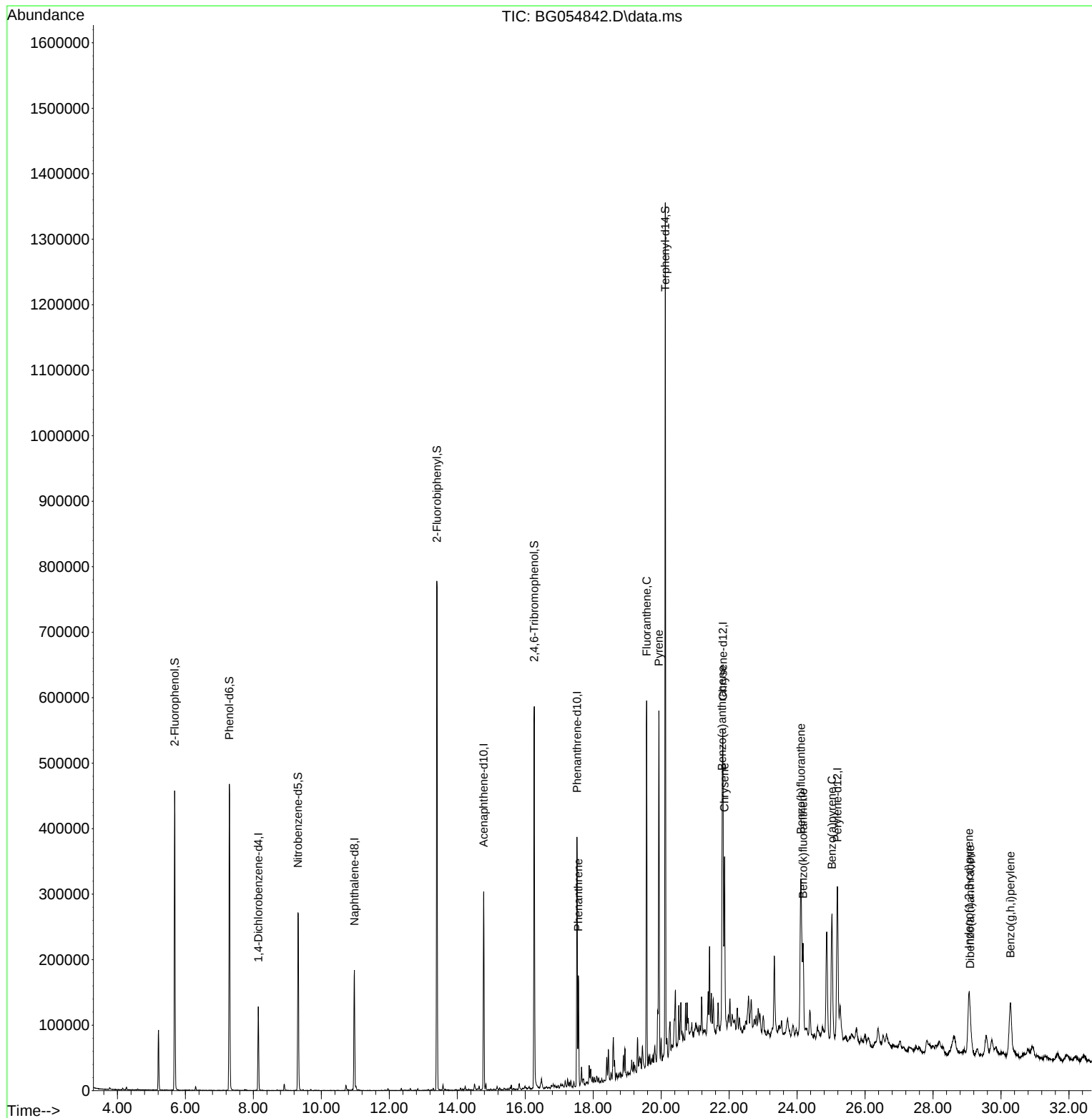
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090222\  
Data File : BG054842.D  
Acq On : 2 Sep 2022 16:10  
Operator : CG/JU  
Sample : N4464-01  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
WC-1

Quant Time: Sep 03 00:27:57 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 25 17:50:55 2022  
Response via : Initial Calibration

Manual Integrations  
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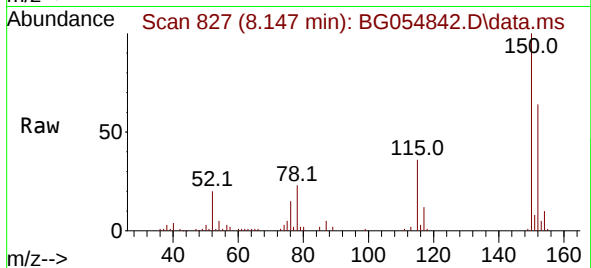
Reviewed By : Christian Giraldo 09/06/2022  
Supervised By : Jagrut Upadhyay 09/06/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.147 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

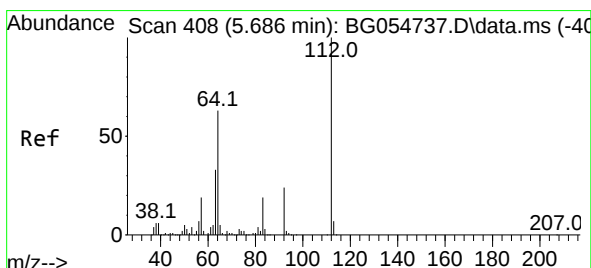
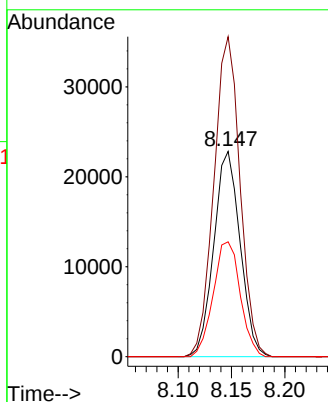
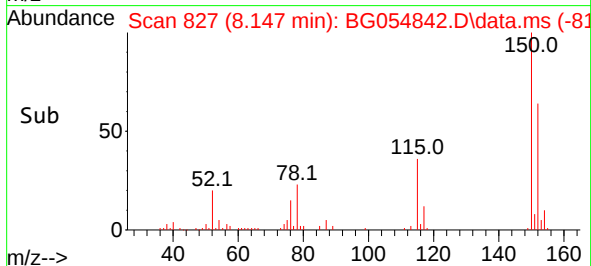
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



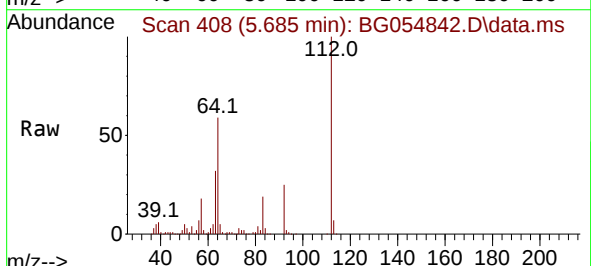
Tgt Ion:152 Resp: 39074  
Ion Ratio Lower Upper  
152 100  
150 155.9 125.2 187.8  
115 56.0 47.9 71.9

Manual Integrations  
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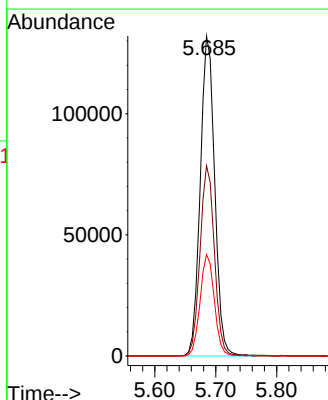
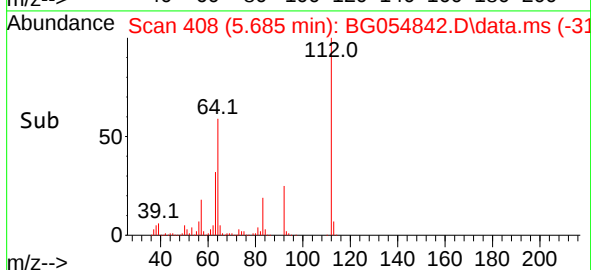
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022



#5  
2-Fluorophenol  
Concen: 97.038 ng  
RT: 5.685 min Scan# 408  
Delta R.T. -0.001 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10



Tgt Ion:112 Resp: 217742  
Ion Ratio Lower Upper  
112 100  
64 59.5 49.3 73.9  
63 31.7 26.3 39.5





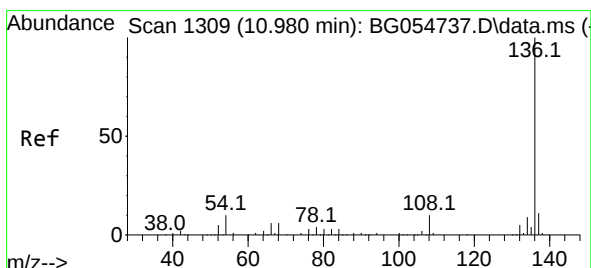
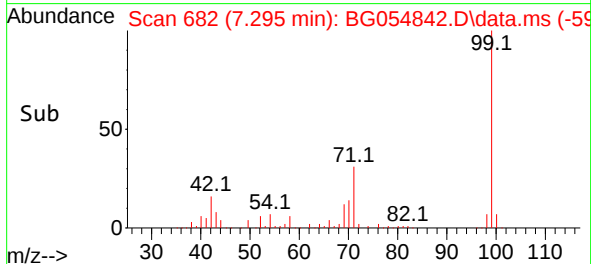
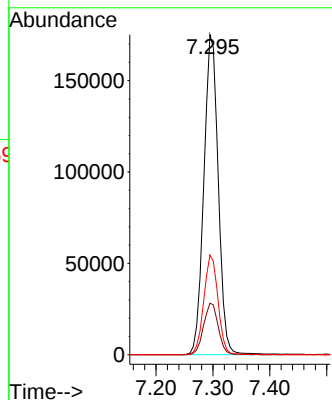
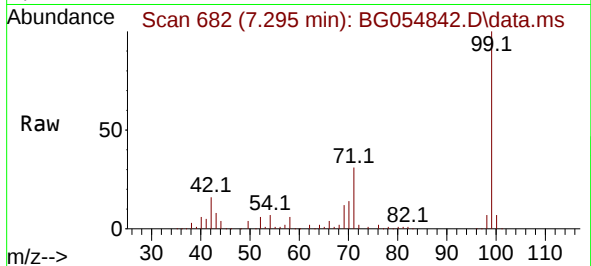
#7  
Phenol-d6  
Concen: 100.354 ng  
RT: 7.295 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

Instrument :  
BNA\_G  
ClientSampleId :  
WC-1

Tgt Ion: 99 Resp: 307954  
Ion Ratio Lower Upper  
99 100  
42 16.1 14.6 22.0  
71 31.1 24.6 37.0

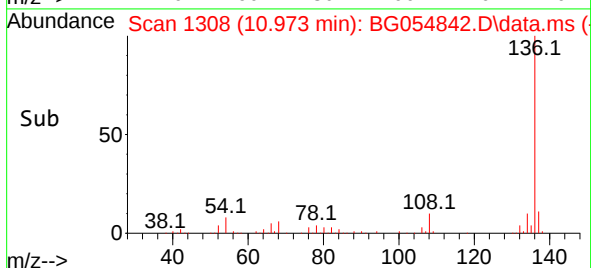
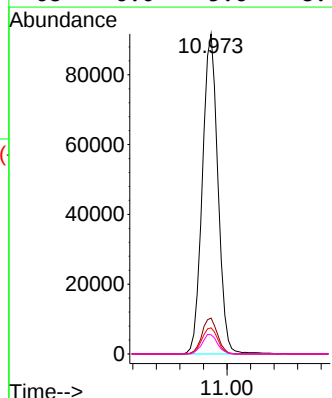
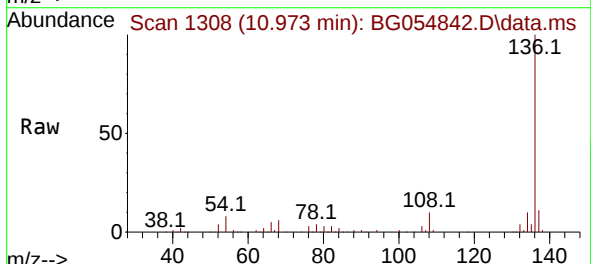
Manual Integrations  
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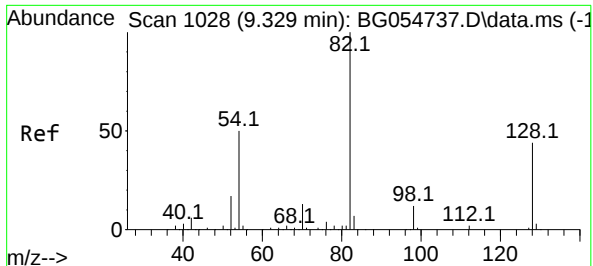
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.973 min Scan# 1308  
Delta R.T. -0.007 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

Tgt Ion:136 Resp: 168000  
Ion Ratio Lower Upper  
136 100  
137 11.2 9.2 13.8  
54 8.1 7.7 11.5  
68 6.0 5.6 8.4





#23

Nitrobenzene-d5

Concen: 56.790 ng

RT: 9.316 min Scan# 1026

Delta R.T. -0.013 min

Lab File: BG054842.D

Acq: 2 Sep 2022 16:10

Instrument :

BNA\_G

ClientSampleId :

WC-1

Tgt Ion: 82 Resp: 181740

Ion Ratio Lower Upper

82 100

128 43.9 32.2 48.2

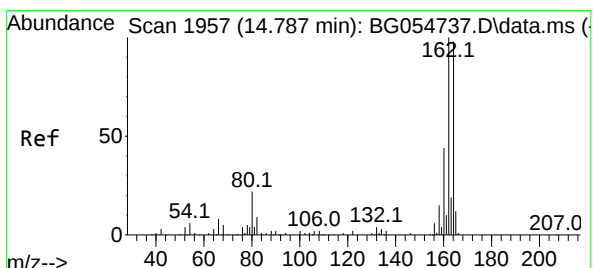
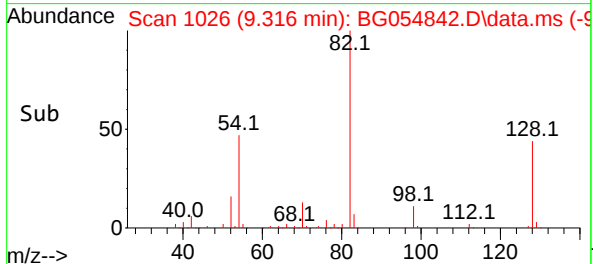
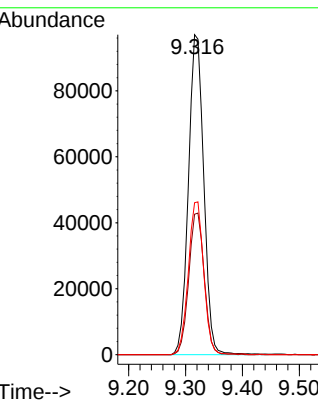
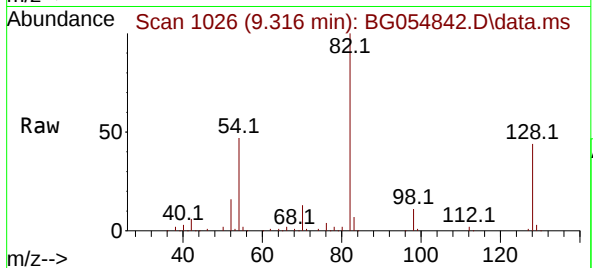
54 47.5 41.4 62.0

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Supervised By :Jagrut Upadhyay 09/06/2022



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.780 min Scan# 1956

Delta R.T. -0.007 min

Lab File: BG054842.D

Acq: 2 Sep 2022 16:10

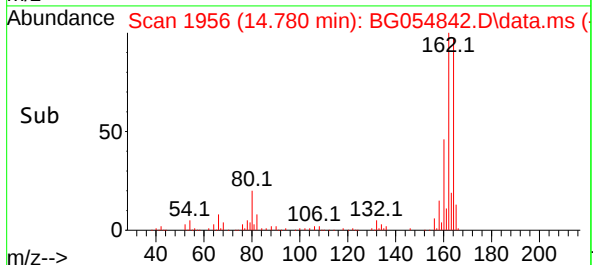
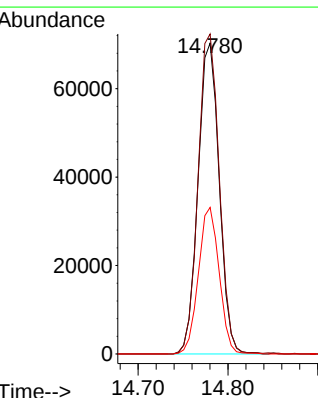
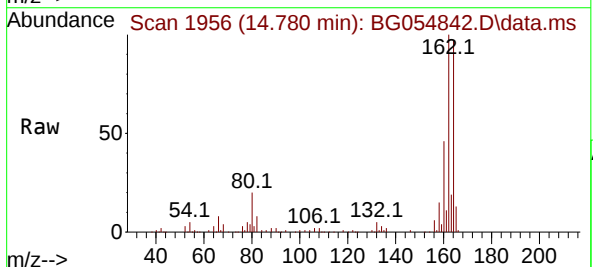
Tgt Ion:164 Resp: 115044

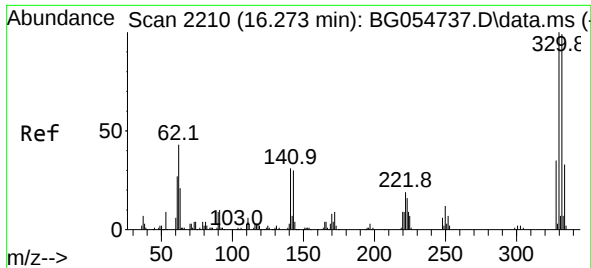
Ion Ratio Lower Upper

164 100

162 102.9 83.0 124.4

160 47.1 38.0 57.0





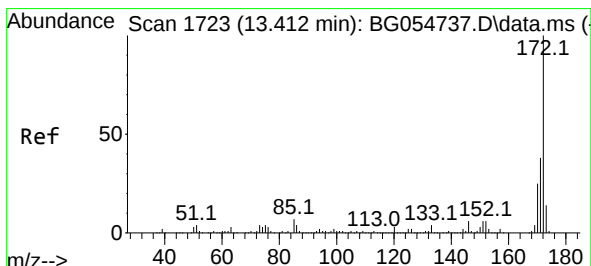
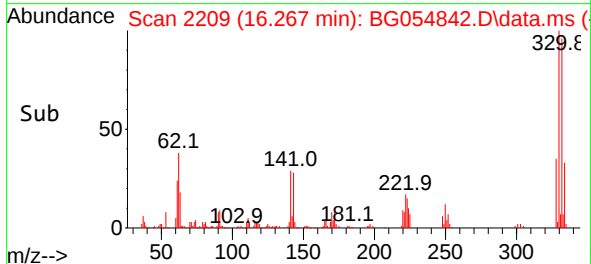
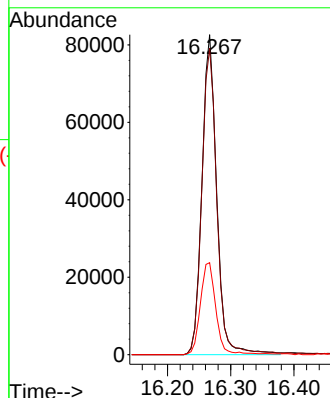
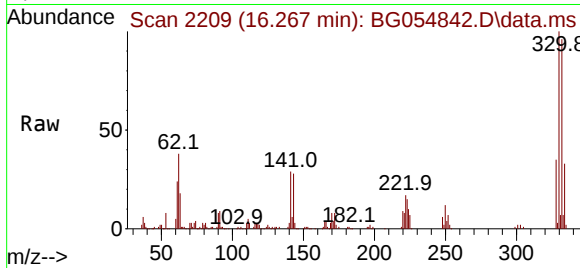
#42  
2,4,6-Tribromophenol  
Concen: 92.866 ng  
RT: 16.267 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

Instrument :  
BNA\_G  
ClientSampleId :  
WC-1

Tgt Ion:330 Resp: 133495  
Ion Ratio Lower Upper  
330 100  
332 97.9 79.8 119.6  
141 30.4 26.8 40.2

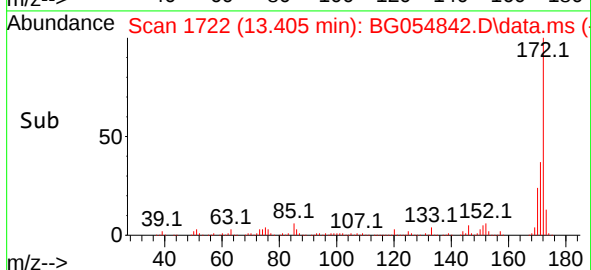
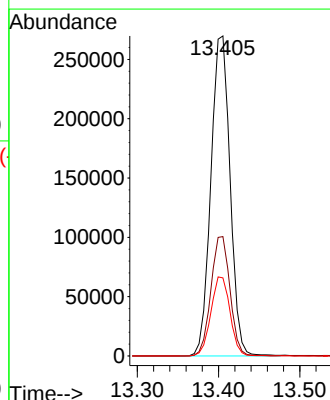
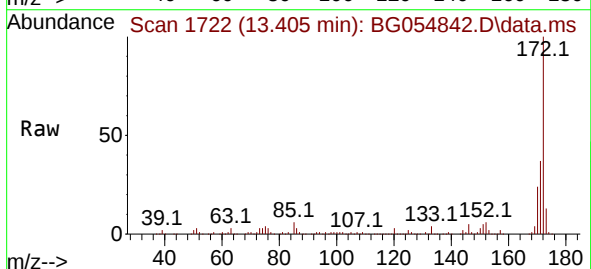
Manual Integrations  
APPROVED

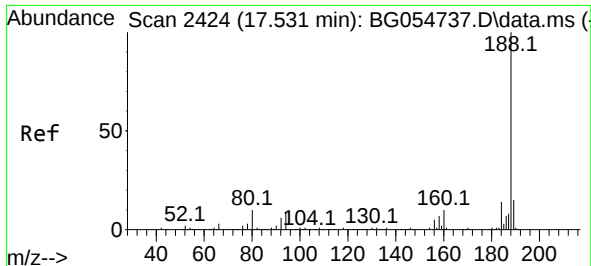
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022



#45  
2-Fluorobiphenyl  
Concen: 57.807 ng  
RT: 13.405 min Scan# 1722  
Delta R.T. -0.007 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

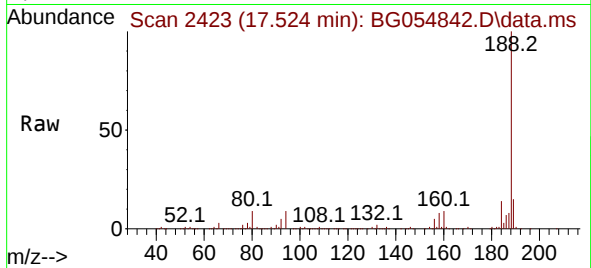
Tgt Ion:172 Resp: 442464  
Ion Ratio Lower Upper  
172 100  
171 37.3 31.2 46.8  
170 24.4 20.6 30.8





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.524 min Scan# 24  
Delta R.T. -0.007 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

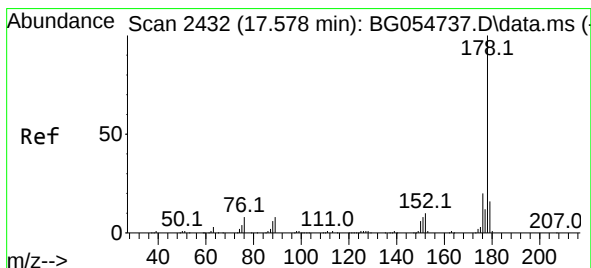
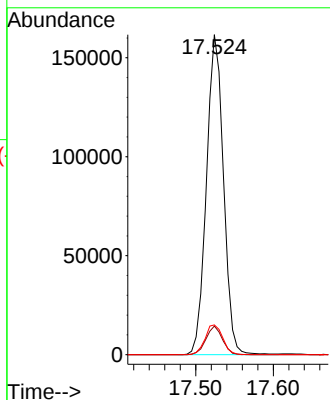
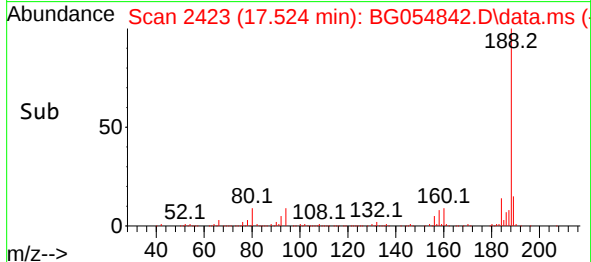
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



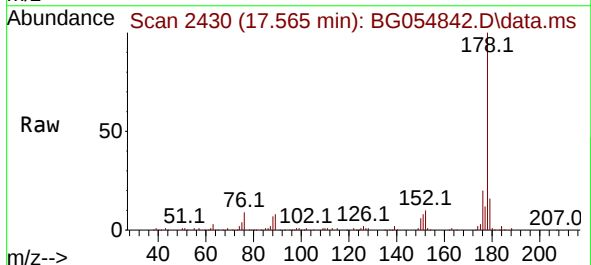
Tgt Ion:188 Resp: 247388  
Ion Ratio Lower Upper  
188 100  
94 9.0 7.0 10.4  
80 9.3 7.9 11.9

Manual Integrations  
APPROVED

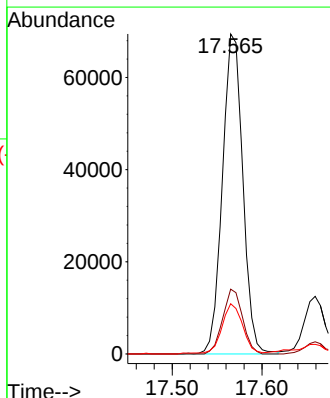
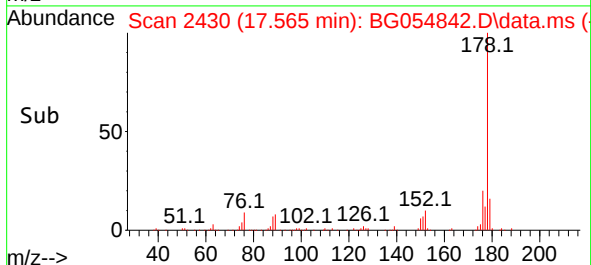
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022

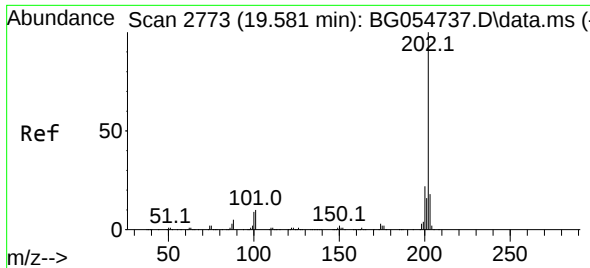


#71  
Phenanthrene  
Concen: 8.314 ng  
RT: 17.565 min Scan# 2430  
Delta R.T. -0.013 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10



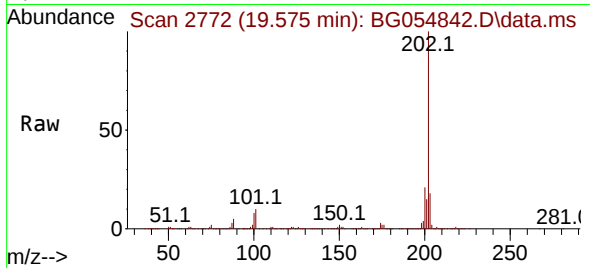
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Ion Ratio Lower Upper  
178 100  
176 20.2 16.6 25.0  
179 15.7 12.8 19.2





#75  
Fluoranthene  
Concen: 22.419 ng  
RT: 19.575 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

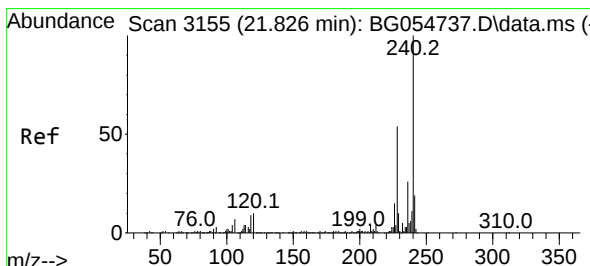
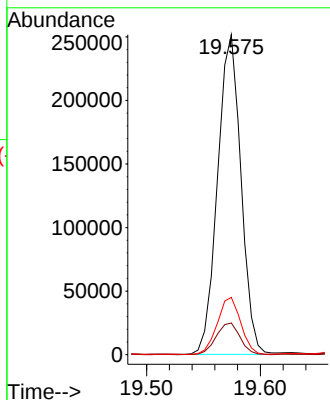
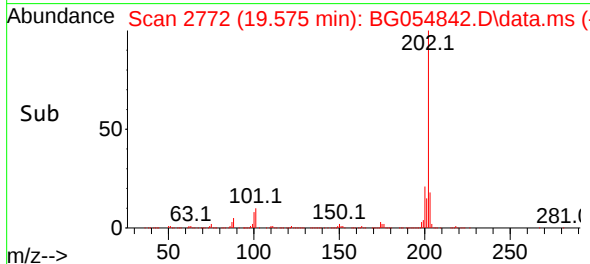
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



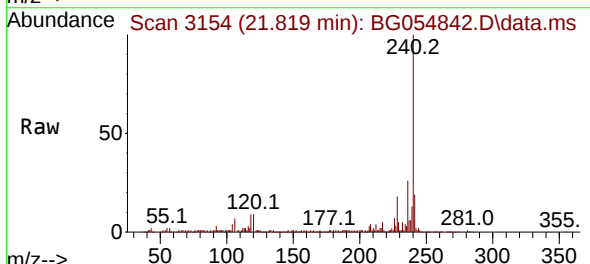
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Ion Ratio Lower Upper  
202 100  
101 9.9 0.0 31.4  
203 17.9 0.0 38.6

Manual Integrations  
APPROVED

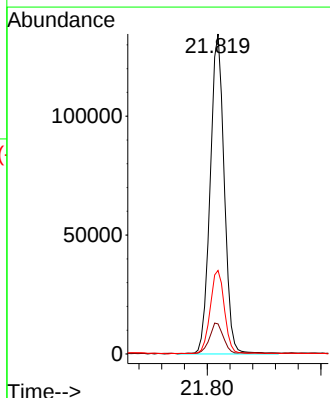
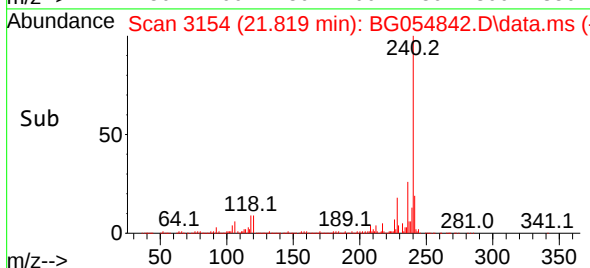
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022

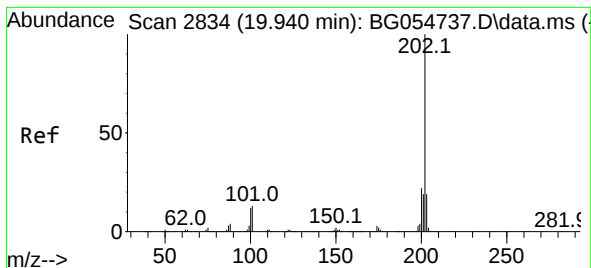


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.819 min Scan# 3154  
Delta R.T. -0.007 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10



Tgt Ion:240 Resp: 230473  
Ion Ratio Lower Upper  
240 100  
120 9.4 8.2 12.4  
236 26.1 21.2 31.8





#78

Pyrene

Concen: 22.141 ng

RT: 19.933 min Scan# 2833

Delta R.T. -0.007 min

Lab File: BG054842.D

Acq: 2 Sep 2022 16:10

Instrument :

BNA\_G

ClientSampleId :

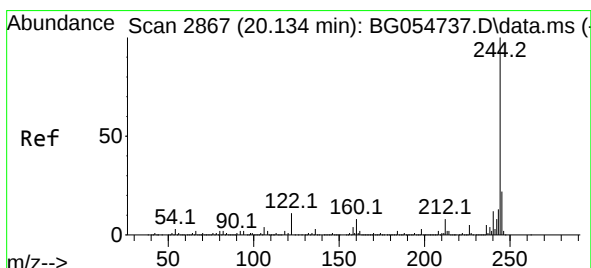
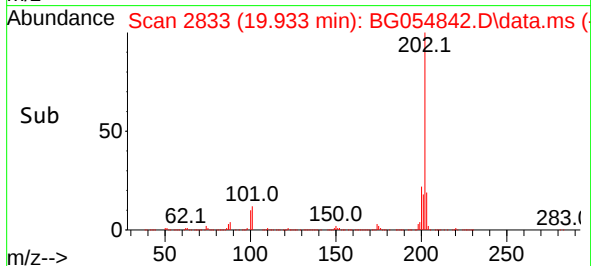
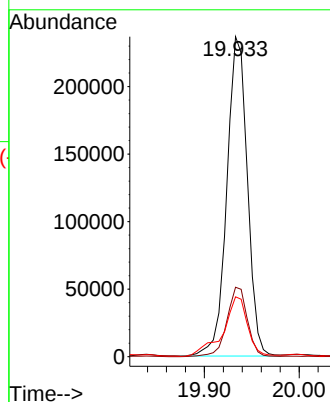
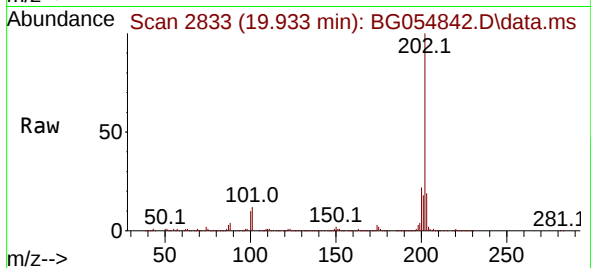
WC-1

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 355829 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 21.7  | 17.8  | 26.6   |
| 203       | 18.7  | 14.6  | 21.8   |

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022



#79

Terphenyl-d14

Concen: 56.780 ng

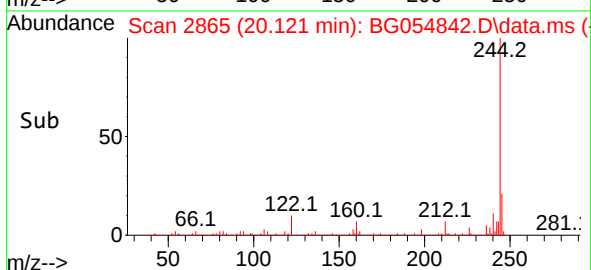
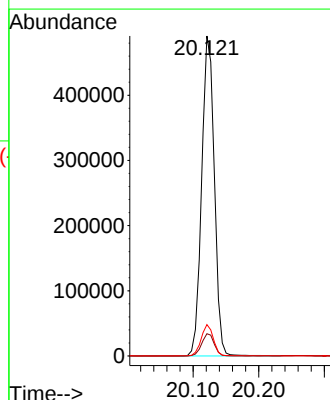
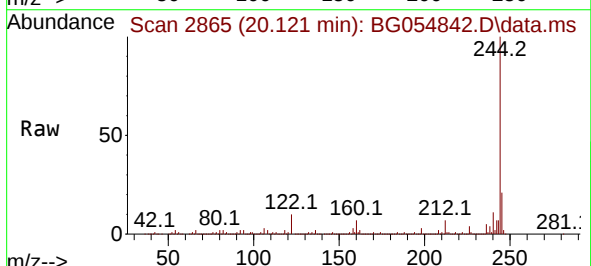
RT: 20.121 min Scan# 2865

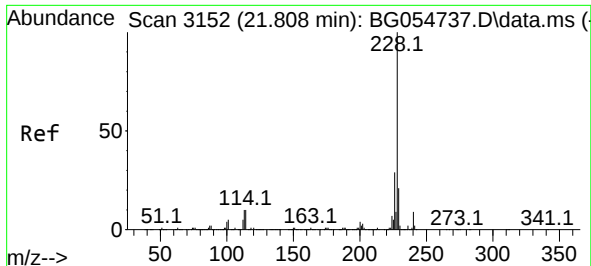
Delta R.T. -0.013 min

Lab File: BG054842.D

Acq: 2 Sep 2022 16:10

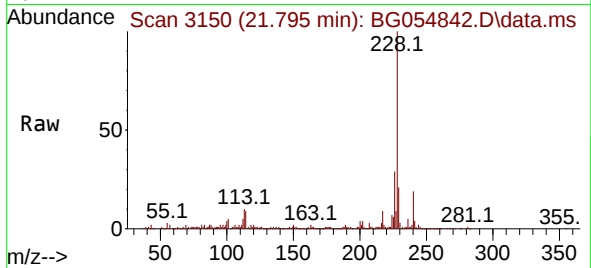
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 660454 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.9   | 6.2   | 9.2    |
| 122       | 9.8   | 9.0   | 13.6   |





#81  
Benzo(a)anthracene  
Concen: 12.000 ng  
RT: 21.795 min Scan# 3152  
Delta R.T. -0.013 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

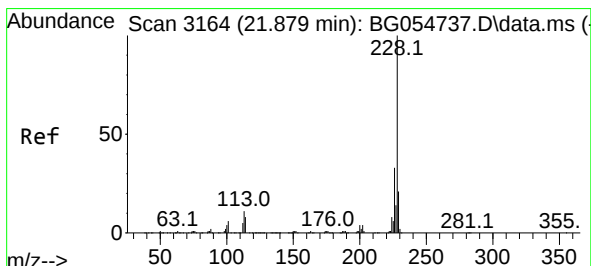
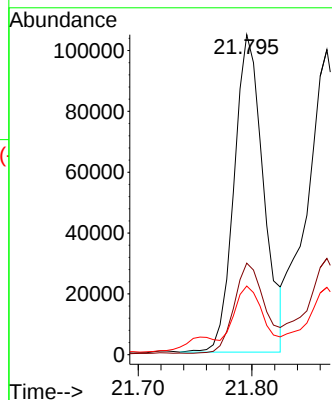
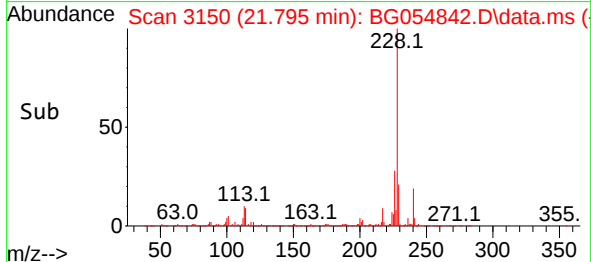
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



Tgt Ion:228 Resp: 18752  
Ion Ratio Lower Upper  
228 100  
226 28.6 23.4 35.2  
229 21.5 16.5 24.7

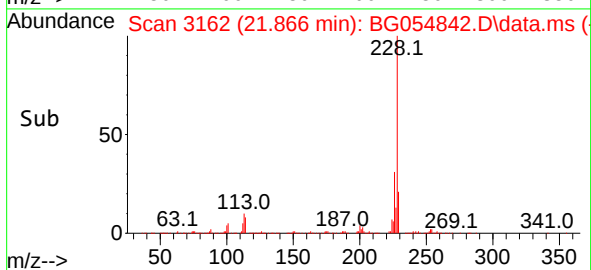
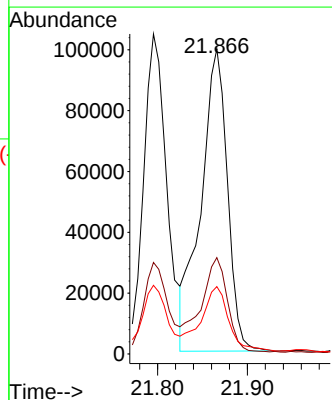
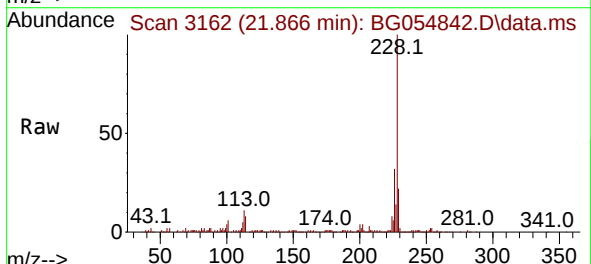
Manual Integrations  
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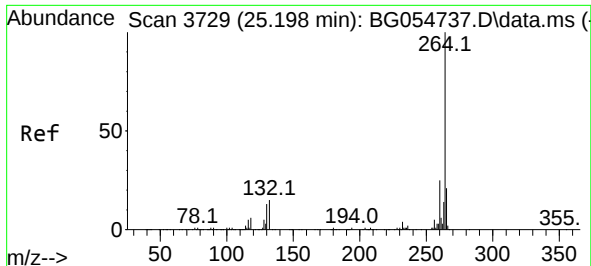
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022



#83  
Chrysene  
Concen: 13.708 ng  
RT: 21.866 min Scan# 3162  
Delta R.T. -0.013 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

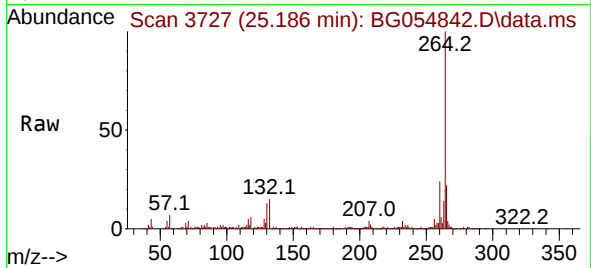
Tgt Ion:228 Resp: 204811  
Ion Ratio Lower Upper  
228 100  
226 31.6 25.5 38.3  
229 22.1 16.8 25.2





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.186 min Scan# 31  
Delta R.T. -0.013 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

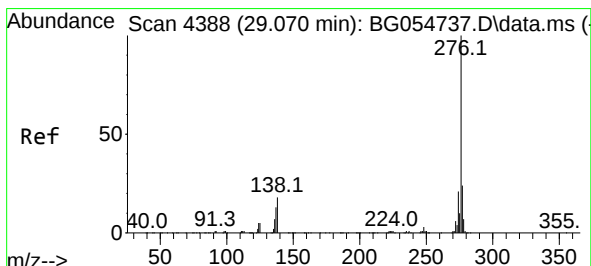
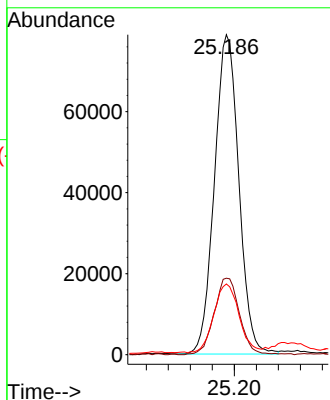
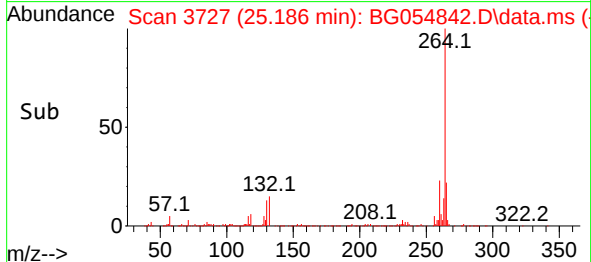
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



Tgt Ion:264 Resp: 242324  
Ion Ratio Lower Upper  
264 100  
260 23.9 19.9 29.9  
265 22.1 16.9 25.3

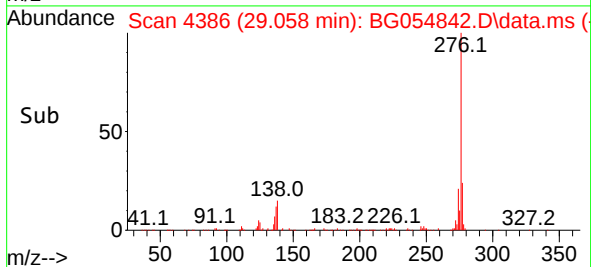
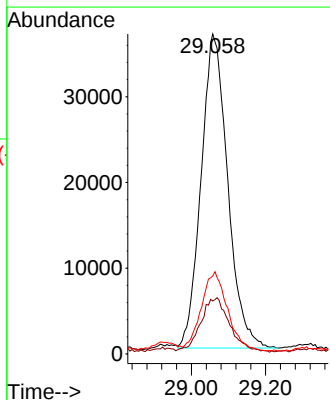
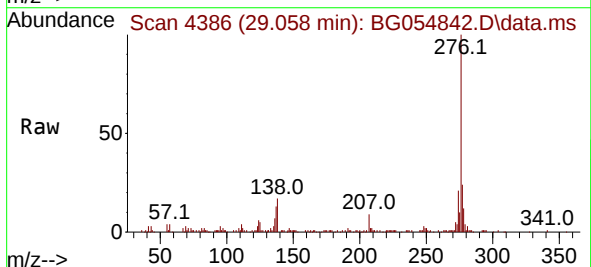
Manual Integrations  
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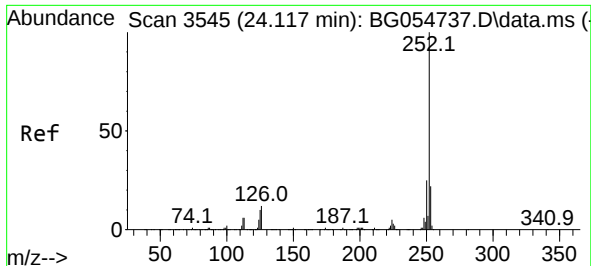
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 9.936 ng  
RT: 29.058 min Scan# 4386  
Delta R.T. -0.013 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

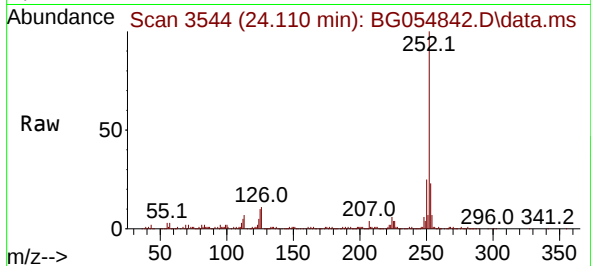
Tgt Ion:276 Resp: 182786  
Ion Ratio Lower Upper  
276 100  
138 18.9 12.0 18.0#  
277 24.9 20.2 30.4





#88  
Benzo(b)fluoranthene  
Concen: 21.500 ng  
RT: 24.110 min Scan# 3544  
Delta R.T. -0.007 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

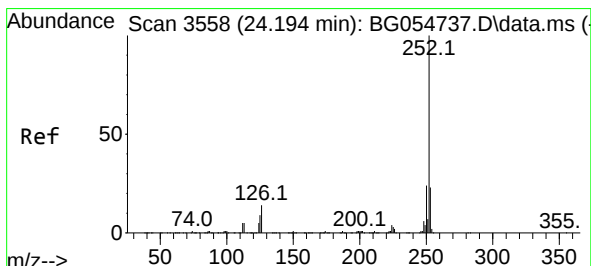
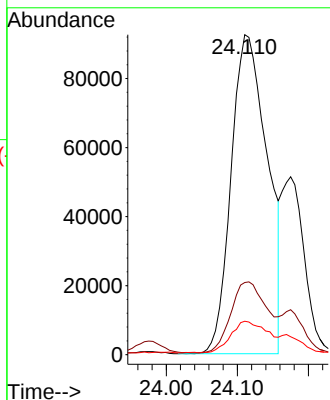
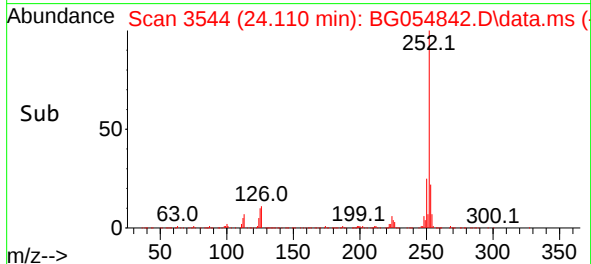
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



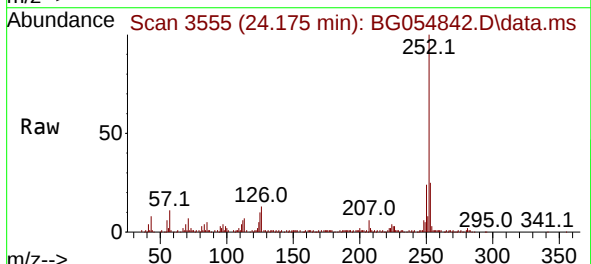
Tgt Ion:252 Resp: 32682  
Ion Ratio Lower Upper  
252 100  
253 22.6 18.0 27.0  
125 10.4 8.1 12.1

Manual Integrations  
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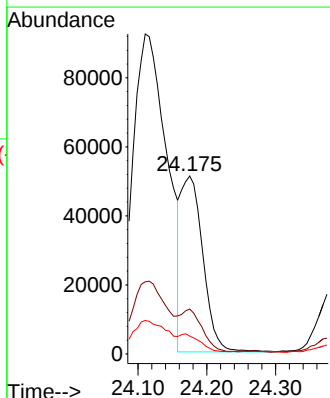
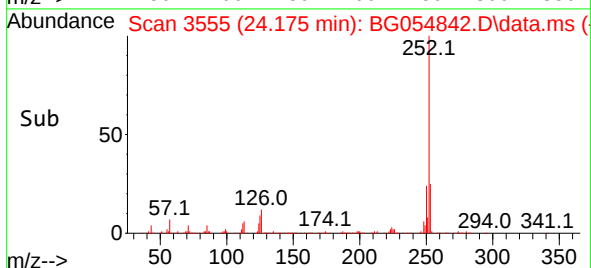
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022

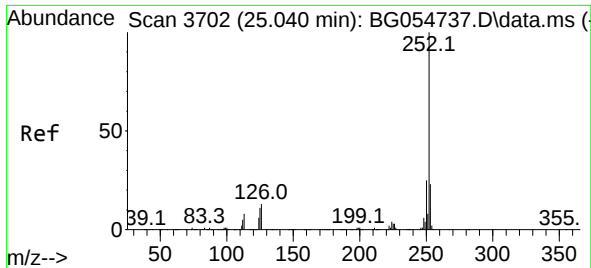


#89  
Benzo(k)fluoranthene  
Concen: 7.363 ng m  
RT: 24.175 min Scan# 3555  
Delta R.T. -0.019 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10



Tgt Ion:252 Resp: 112643  
Ion Ratio Lower Upper  
252 100  
253 25.3 17.8 26.8  
125 10.0 8.2 12.4





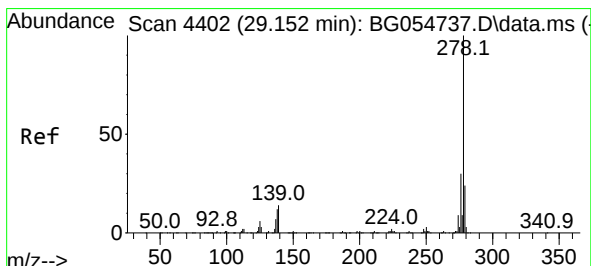
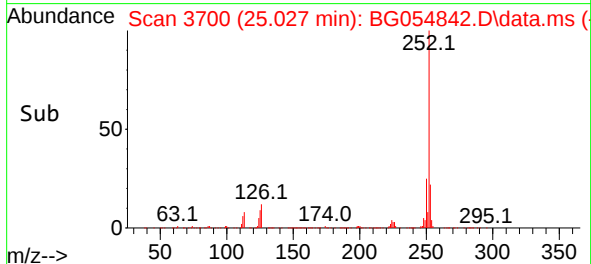
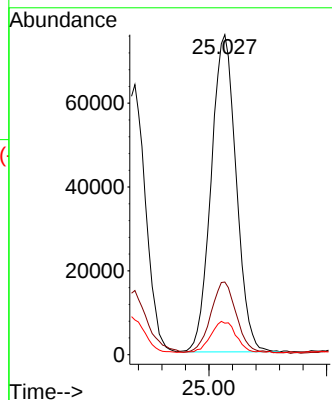
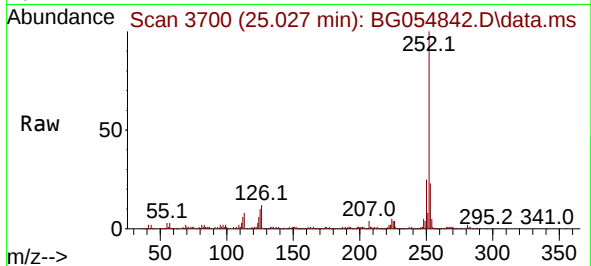
#90  
Benzo(a)pyrene  
Concen: 17.205 ng  
RT: 25.027 min Scan# 31  
Delta R.T. -0.013 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

Instrument :  
BNA\_G  
ClientSampleId :  
WC-1

Tgt Ion:252 Resp: 223450  
Ion Ratio Lower Upper  
252 100  
253 22.7 18.3 27.5  
125 9.9 8.8 13.2

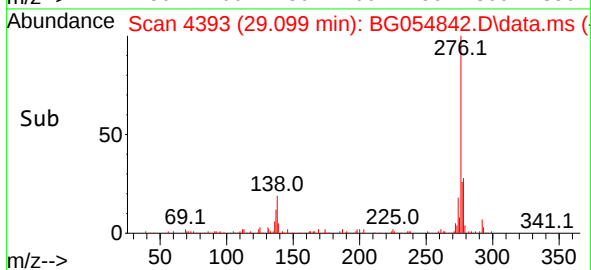
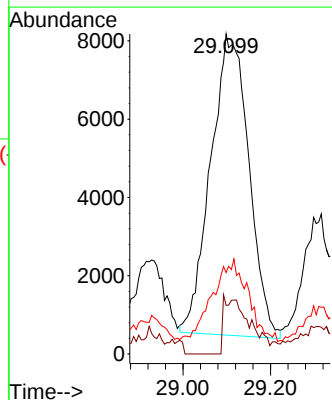
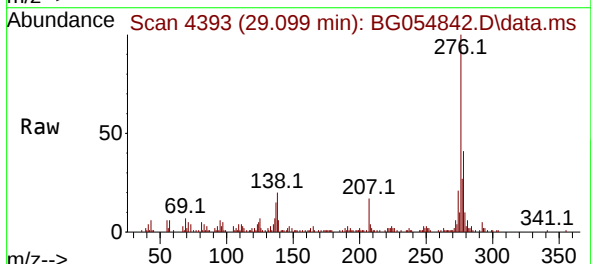
Manual Integrations  
APPROVED

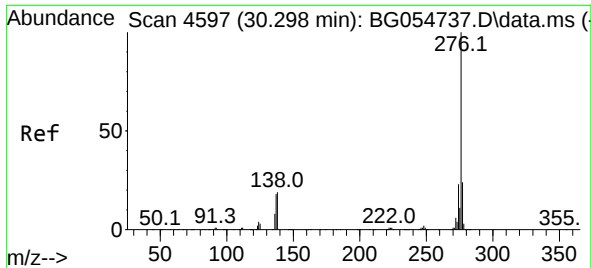
Reviewed By :Christian Giraldo 09/06/2022  
Supervised By :Jagrut Upadhyay 09/06/2022



#91  
Dibenzo(a,h)anthracene  
Concen: 3.110 ng  
RT: 29.099 min Scan# 4393  
Delta R.T. -0.054 min  
Lab File: BG054842.D  
Acq: 2 Sep 2022 16:10

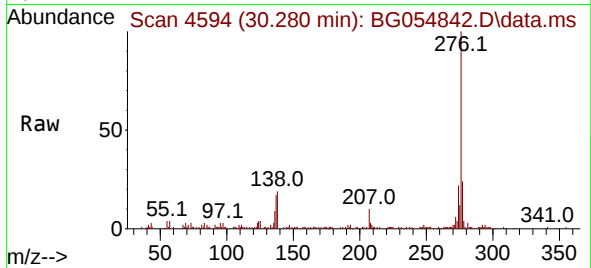
Tgt Ion:278 Resp: 46611  
Ion Ratio Lower Upper  
278 100  
139 15.2 11.4 17.2  
279 25.5 19.3 28.9





#92  
 Benzo(g,h,i)perylene  
 Concen: 12.063 ng  
 RT: 30.280 min Scan# 4594  
 Delta R.T. -0.019 min  
 Lab File: BG054842.D  
 Acq: 2 Sep 2022 16:10

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-1



Tgt Ion:276 Resp: 182652  
 Ion Ratio Lower Upper  
 276 100  
 277 23.9 19.4 29.0  
 138 19.3 16.6 25.0

Manual Integrations  
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