

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102922\  
 Data File : BF130861.D  
 Acq On : 29 Oct 2022 17:16  
 Operator : CG\JU  
 Sample : N5267-19  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP7-1024

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 10/31/2022  
 Supervised By : Jagrut Upadhyay 11/01/2022

Quant Time: Oct 30 23:25:24 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102722.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Oct 29 05:41:34 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.945  | 152  | 77414    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.228  | 136  | 264322   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.986  | 164  | 109580   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.480 | 188  | 177937   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.127 | 240  | 155092   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.645 | 264  | 114936   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.557  | 112  | 438026   | 98.092 | ng    | 0.00     |
| 7) Phenol-d6                | 6.557  | 99   | 538763   | 92.844 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.504  | 82   | 332776   | 75.915 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.775 | 330  | 91084    | 98.742 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.304  | 172  | 530105   | 73.139 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.069 | 244  | 483665   | 57.146 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 52) Acenaphthene            | 10.022 | 154  | 25227    | 4.124  | ng    | 100      |
| 55) Dibenzofuran            | 10.192 | 168  | 26398    | 2.977  | ng    | 96       |
| 58) Fluorene                | 10.533 | 166  | 30117    | 4.314  | ng    | 100      |
| 71) Phenanthrene            | 11.504 | 178  | 260046   | 28.315 | ng    | 99       |
| 72) Anthracene              | 11.557 | 178  | 68832    | 7.599  | ng    | 99       |
| 75) Fluoranthene            | 12.698 | 202  | 327596   | 33.573 | ng    | 98       |
| 78) Pyrene                  | 12.927 | 202  | 291753   | 22.297 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.116 | 228  | 150112   | 14.599 | ng    | 100      |
| 83) Chrysene                | 14.151 | 228  | 124448   | 12.547 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.186 | 276  | 50442    | 6.609  | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.192 | 252  | 124304m  | 16.730 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.221 | 252  | 44762m   | 6.183  | ng    |          |
| 90) Benzo(a)pyrene          | 15.574 | 252  | 89957    | 15.061 | ng    | # 94     |
| 91) Dibenzo(a,h)anthracene  | 17.198 | 278  | 13258    | 2.131  | ng    | # 85     |
| 92) Benzo(g,h,i)perylene    | 17.645 | 276  | 46010    | 7.248  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

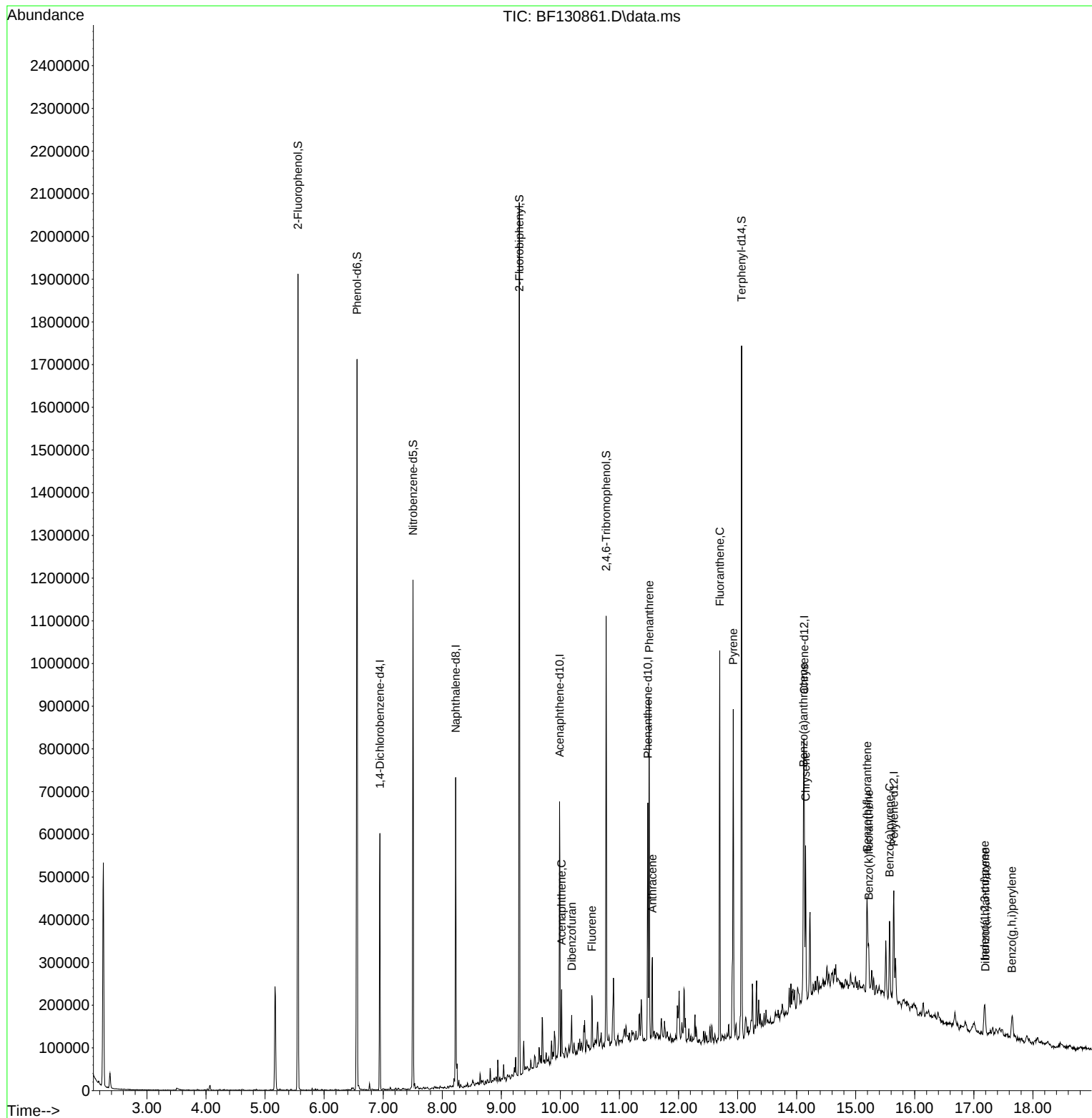
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102922\  
Data File : BF130861.D  
Acq On : 29 Oct 2022 17:16  
Operator : CG\JU  
Sample : N5267-19  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

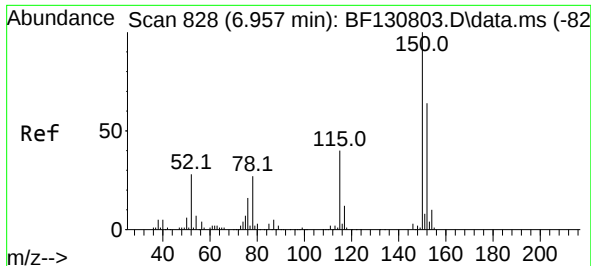
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024

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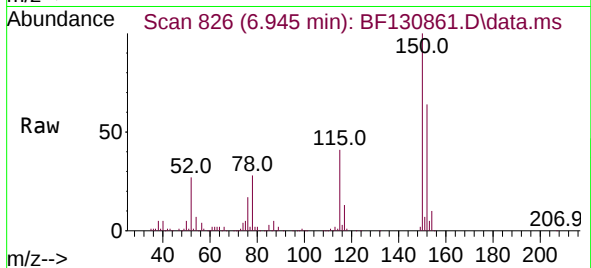
Quant Time: Oct 30 23:25:24 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102722.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Oct 29 05:41:34 2022  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.945 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

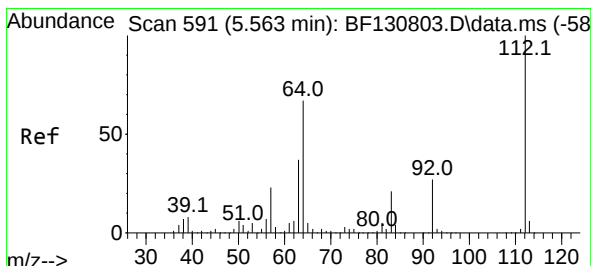
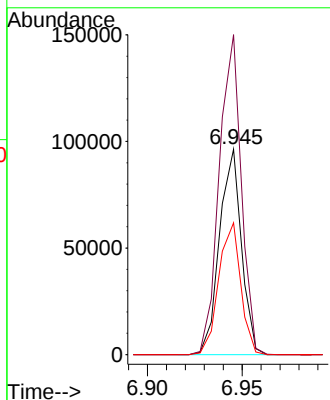
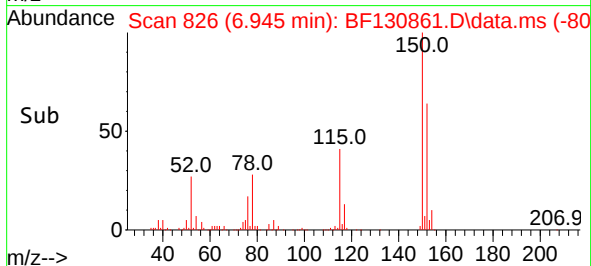
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024



Tgt Ion:152 Resp: 77414  
Ion Ratio Lower Upper  
152 100  
150 155.9 124.1 186.1  
115 64.2 50.1 75.1

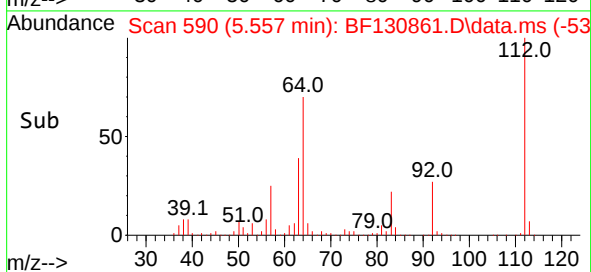
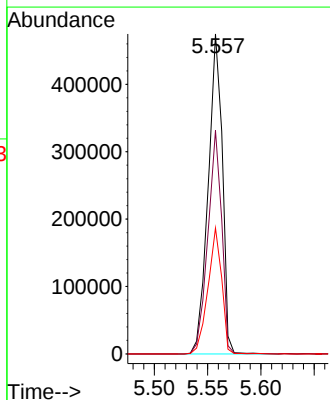
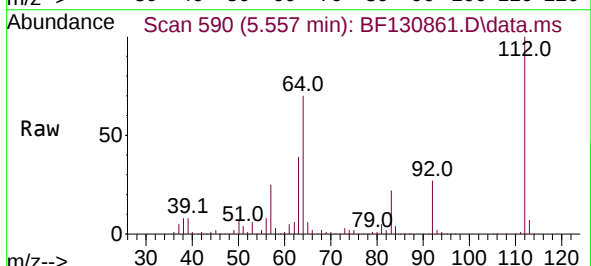
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Supervised By :Jagrut Upadhyay 11/01/2022



#5  
2-Fluorophenol  
Concen: 98.092 ng  
RT: 5.557 min Scan# 590  
Delta R.T. -0.000 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

Tgt Ion:112 Resp: 438026  
Ion Ratio Lower Upper  
112 100  
64 69.8 53.9 80.9  
63 39.3 29.4 44.2





#7

Phenol-d6

Concen: 92.844 ng

RT: 6.557 min Scan# 760

Delta R.T. -0.006 min

Lab File: BF130861.D

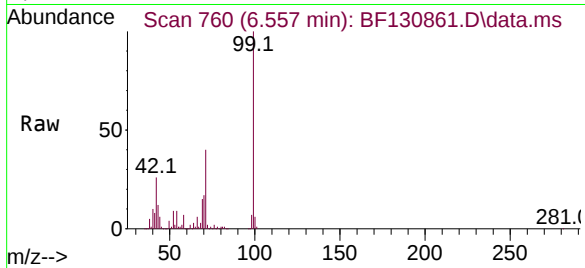
Acq: 29 Oct 2022 17:16

Instrument :

BNA\_F

ClientSampleId :

TP7-1024



Tgt Ion: 99 Resp: 538763

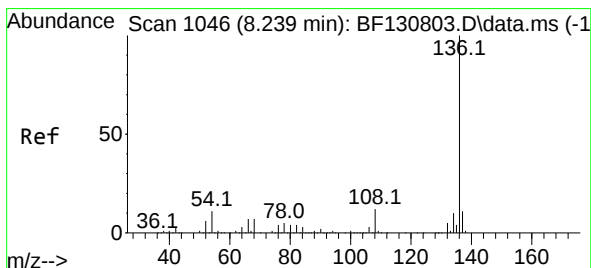
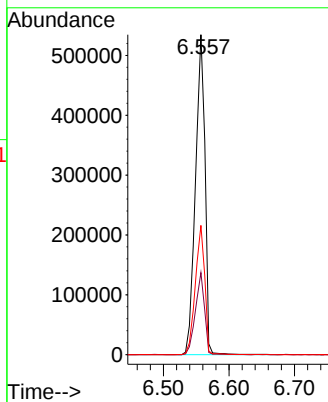
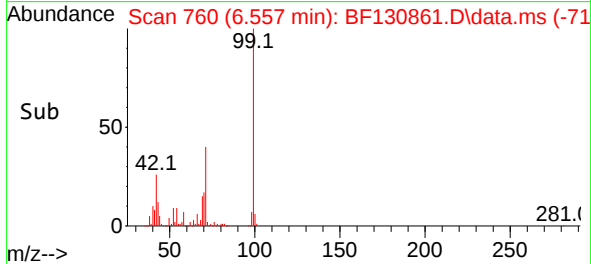
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 25.6  | 18.8  | 28.2  |
| 71  | 40.4  | 31.4  | 47.0  |

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.228 min Scan# 1044

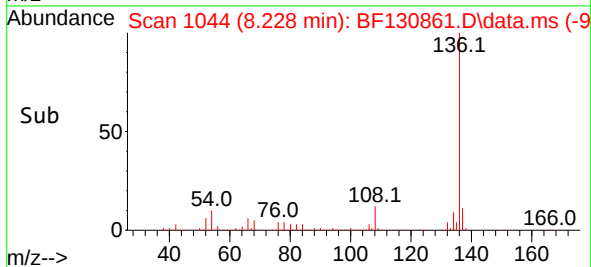
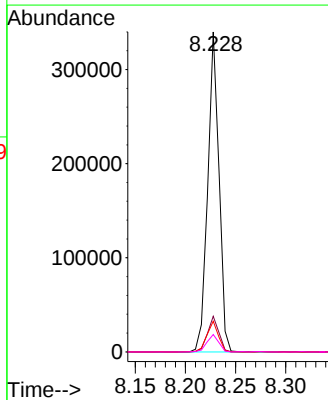
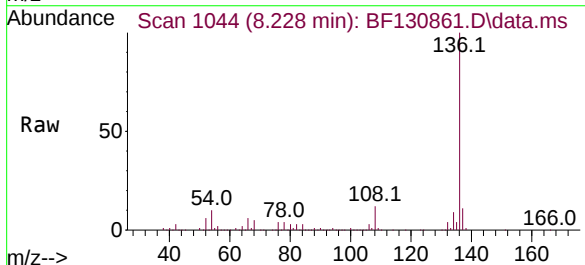
Delta R.T. -0.006 min

Lab File: BF130861.D

Acq: 29 Oct 2022 17:16

Tgt Ion:136 Resp: 264322

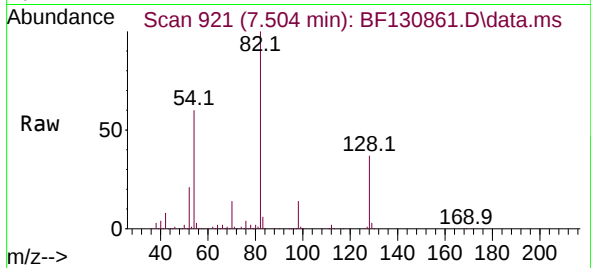
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 9.2   | 13.8  |
| 54  | 9.6   | 8.8   | 13.2  |
| 68  | 5.4   | 5.2   | 7.8   |





#23  
Nitrobenzene-d5  
Concen: 75.915 ng  
RT: 7.504 min Scan# 91  
Delta R.T. -0.012 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

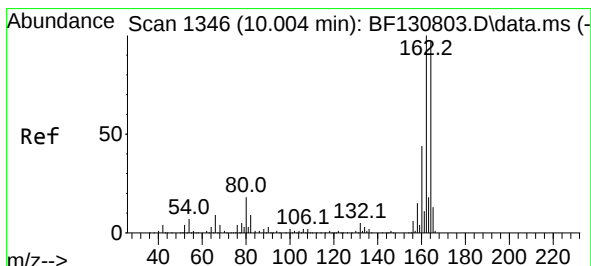
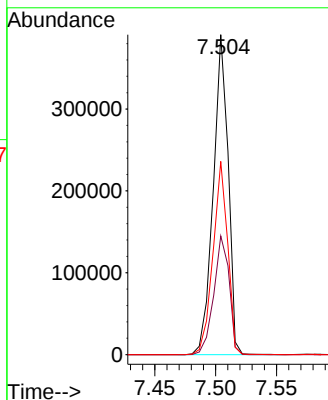
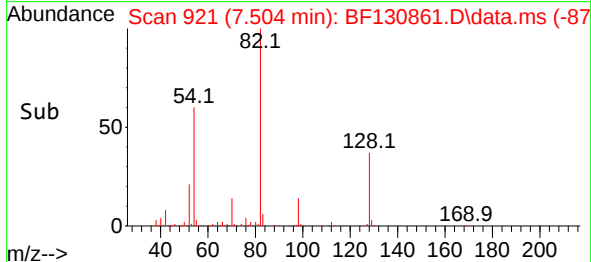
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024



Tgt Ion: 82 Resp: 332776  
Ion Ratio Lower Upper  
82 100  
128 37.1 31.2 46.8  
54 60.4 48.0 72.0

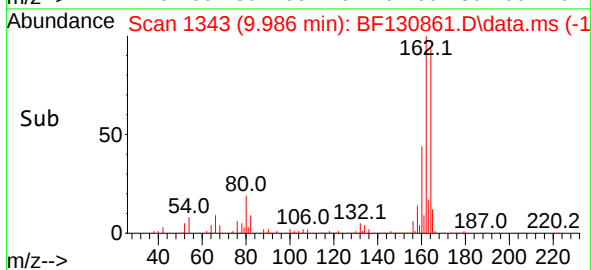
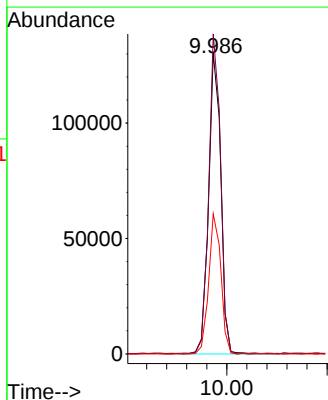
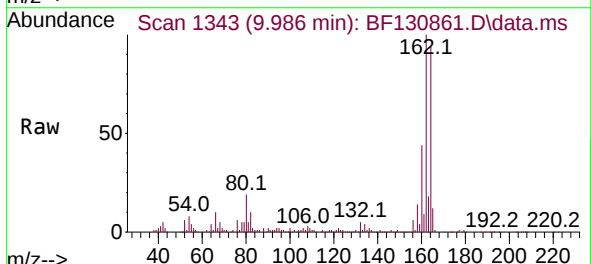
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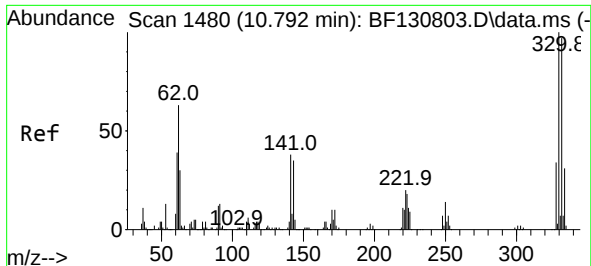
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.986 min Scan# 1343  
Delta R.T. -0.012 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

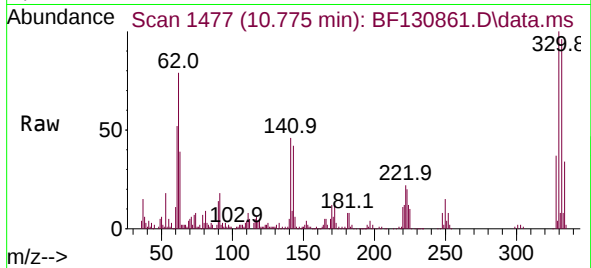
Tgt Ion:164 Resp: 109580  
Ion Ratio Lower Upper  
164 100  
162 106.5 82.2 123.2  
160 46.6 36.6 54.8





#42  
2,4,6-Tribromophenol  
Concen: 98.742 ng  
RT: 10.775 min Scan# 1480  
Delta R.T. -0.012 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

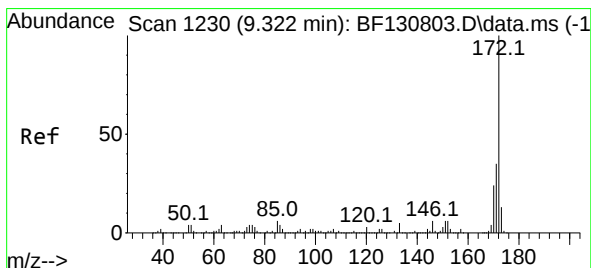
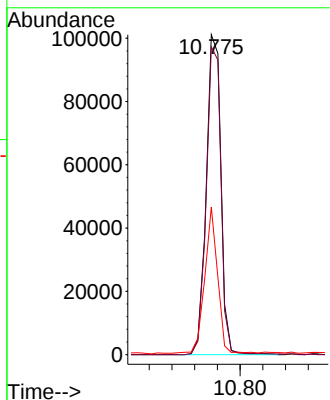
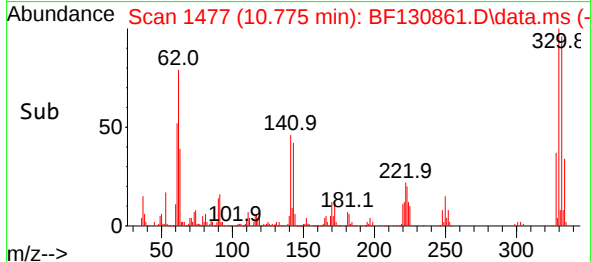
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024



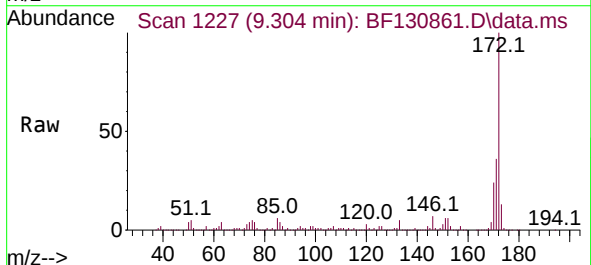
Tgt Ion: 330 Resp: 91084  
Ion Ratio Lower Upper  
330 100  
332 95.7 76.2 114.4  
141 40.9 31.4 47.0

Manual Integrations  
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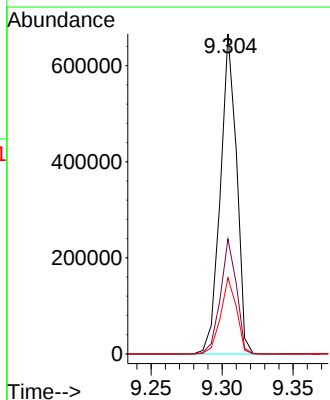
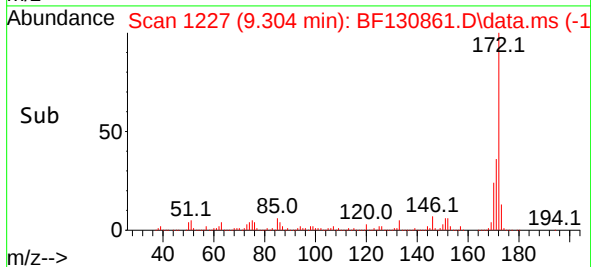
Reviewed By : Christian Giraldo 10/31/2022  
Supervised By : Jagrut Upadhyay 11/01/2022

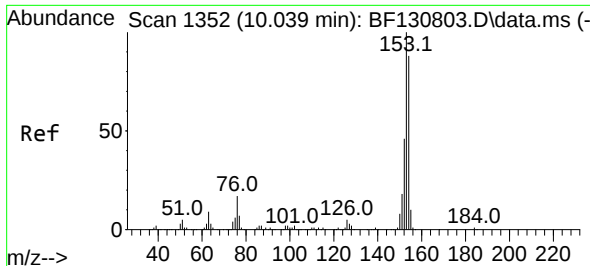


#45  
2-Fluorobiphenyl  
Concen: 73.139 ng  
RT: 9.304 min Scan# 1227  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16



Tgt Ion: 172 Resp: 530105  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.1 42.1  
170 23.8 19.0 28.4





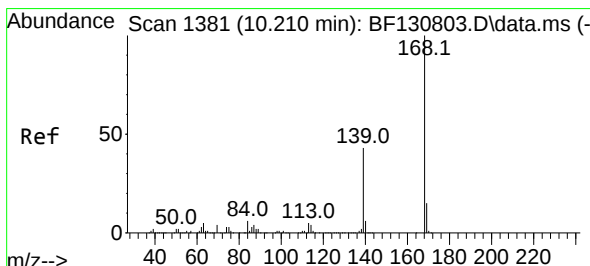
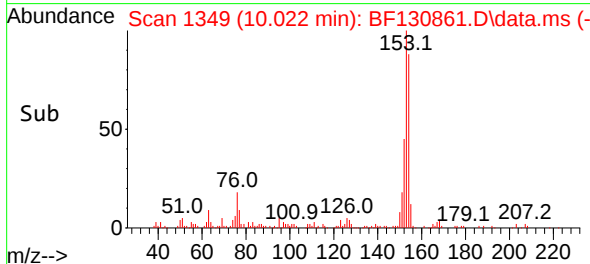
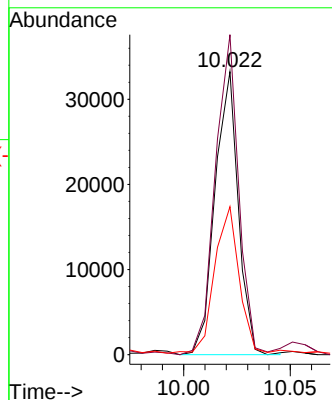
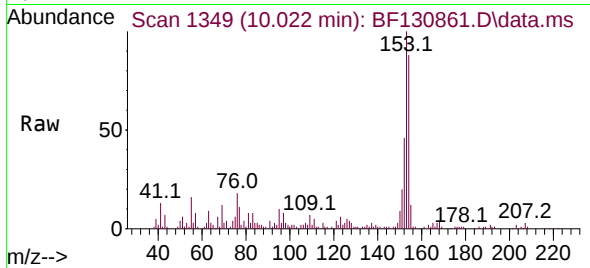
#52  
Acenaphthene  
Concen: 4.124 ng  
RT: 10.022 min Scan# 1349  
Delta R.T. -0.012 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024

Tgt Ion:154 Resp: 25227  
Ion Ratio Lower Upper  
154 100  
153 113.1 90.5 135.7  
152 52.3 42.0 63.0

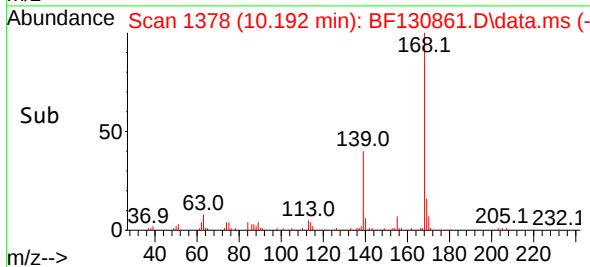
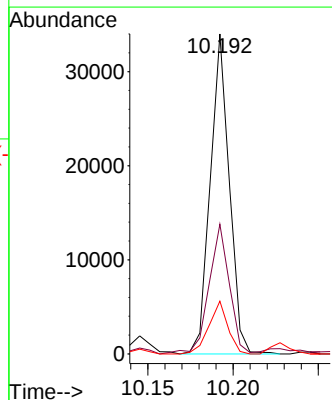
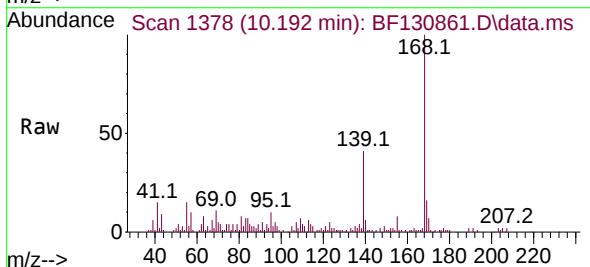
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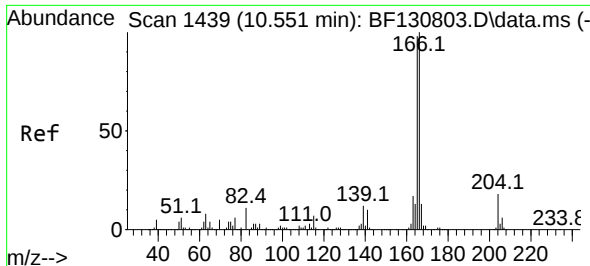
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



#55  
Dibenzofuran  
Concen: 2.977 ng  
RT: 10.192 min Scan# 1378  
Delta R.T. -0.012 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

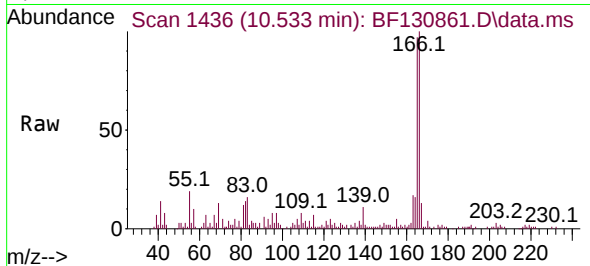
Tgt Ion:168 Resp: 26398  
Ion Ratio Lower Upper  
168 100  
139 40.5 34.3 51.5  
169 16.5 11.9 17.9





#58  
Fluorene  
Concen: 4.314 ng  
RT: 10.533 min Scan# 1436  
Delta R.T. -0.012 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

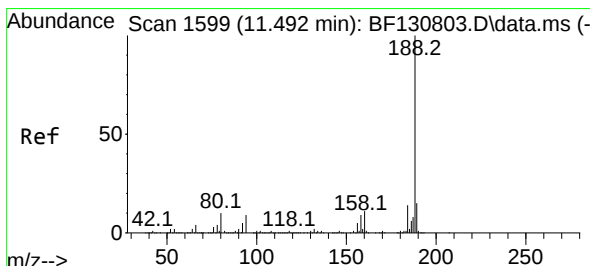
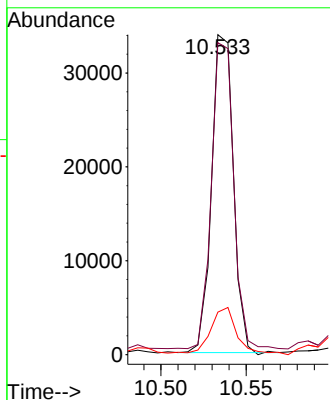
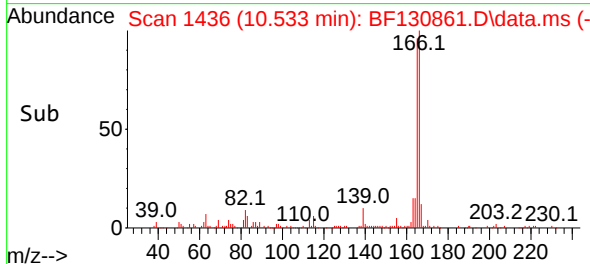
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024



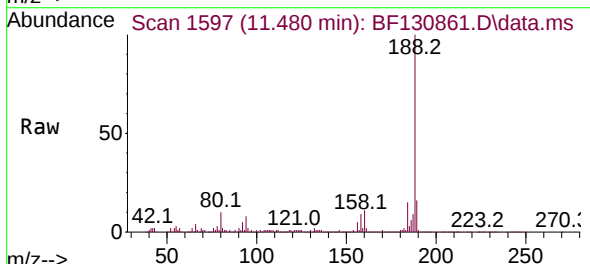
Tgt Ion:166 Resp: 30117  
Ion Ratio Lower Upper  
166 100  
165 97.5 78.1 117.1  
167 13.3 10.4 15.6

Manual Integrations  
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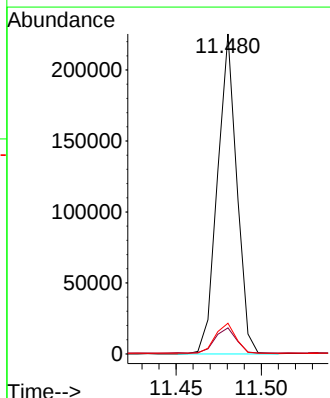
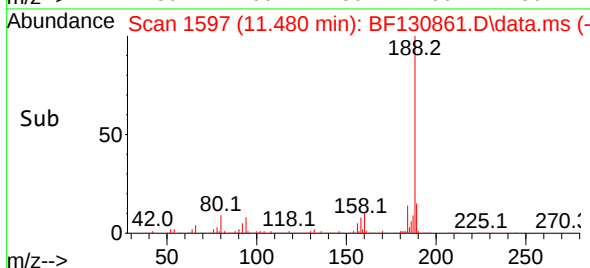
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022

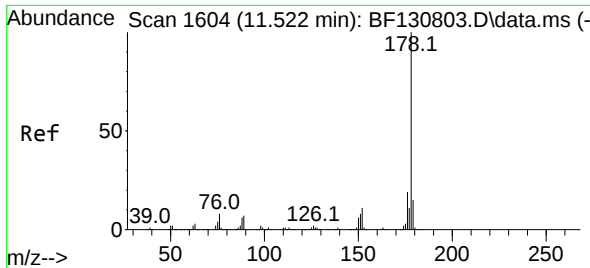


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.480 min Scan# 1597  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16



Tgt Ion:188 Resp: 177937  
Ion Ratio Lower Upper  
188 100  
94 8.1 7.4 11.2  
80 9.6 8.0 12.0





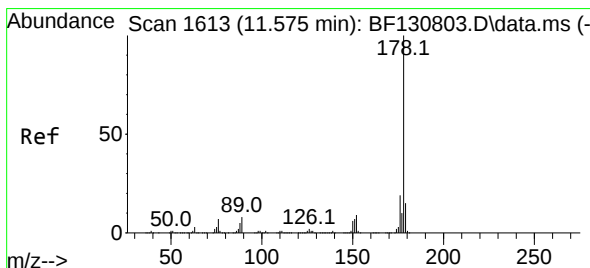
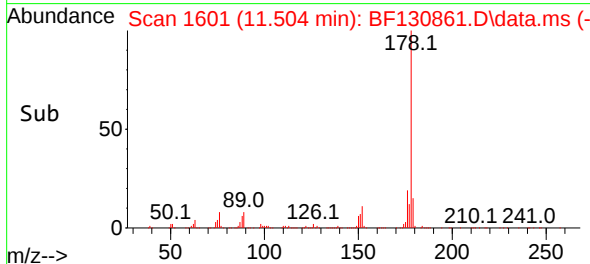
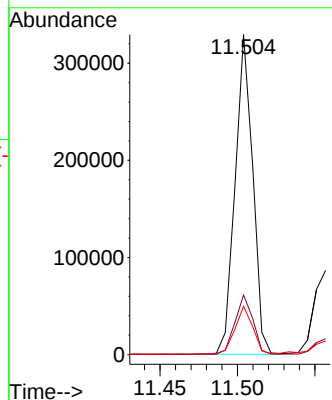
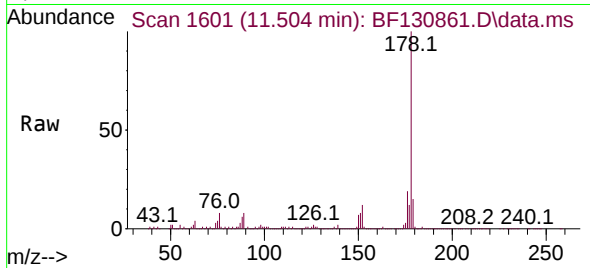
#71  
Phenanthrene  
Concen: 28.315 ng  
RT: 11.504 min Scan# 1604  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024

Tgt Ion:178 Resp: 260046  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.5 23.3  
179 15.1 12.2 18.2

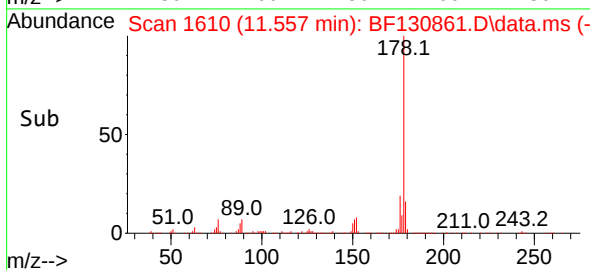
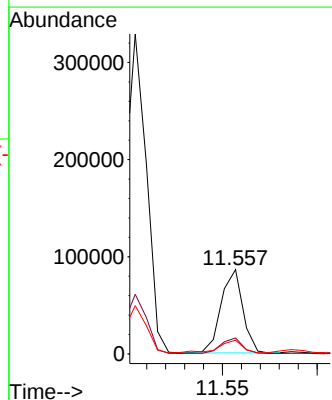
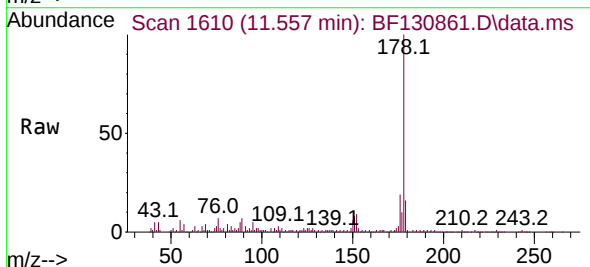
Manual Integrations  
APPROVED

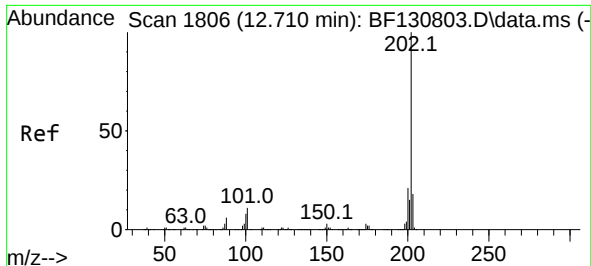
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



#72  
Anthracene  
Concen: 7.599 ng  
RT: 11.557 min Scan# 1610  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

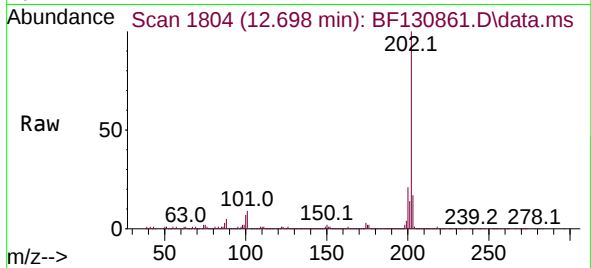
Tgt Ion:178 Resp: 68832  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.4 23.0  
179 16.3 12.2 18.4





#75  
Fluoranthene  
Concen: 33.573 ng  
RT: 12.698 min Scan# 1804  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

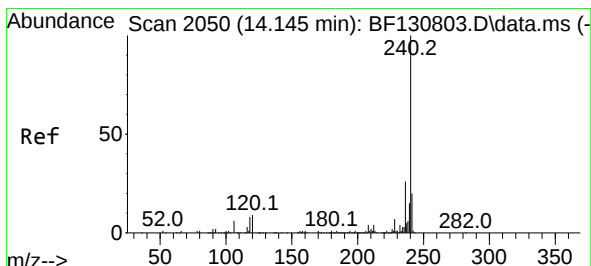
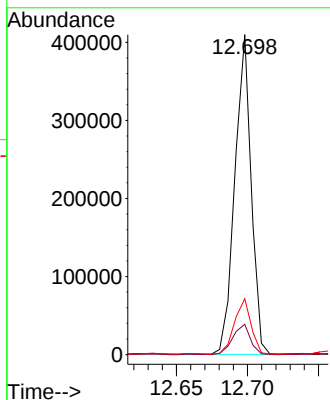
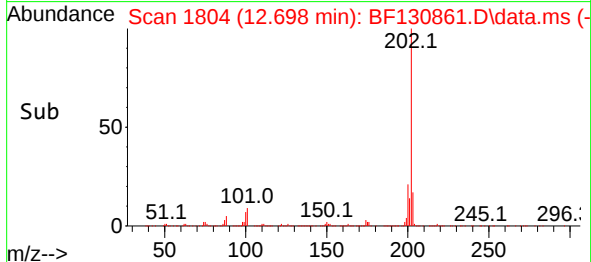
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024



Tgt Ion:202 Resp: 327596  
Ion Ratio Lower Upper  
202 100  
101 9.5 0.0 30.9  
203 17.5 0.0 37.7

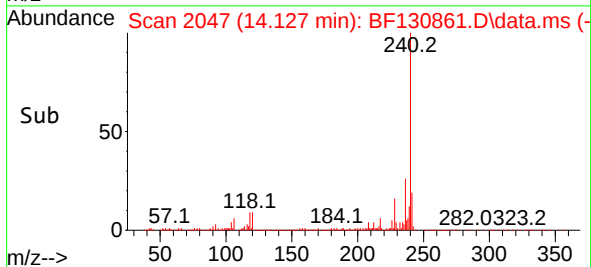
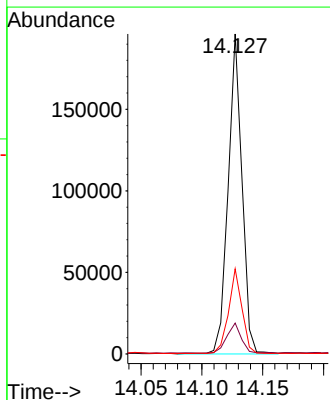
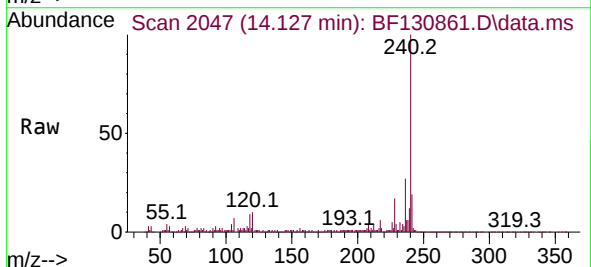
Manual Integrations  
APPROVED

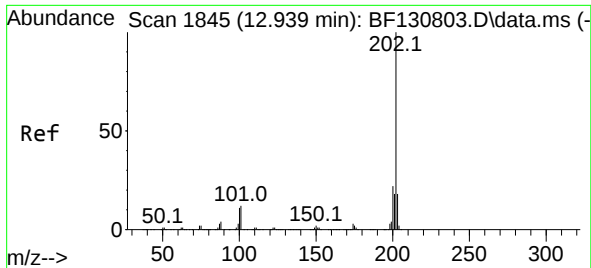
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.127 min Scan# 2047  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

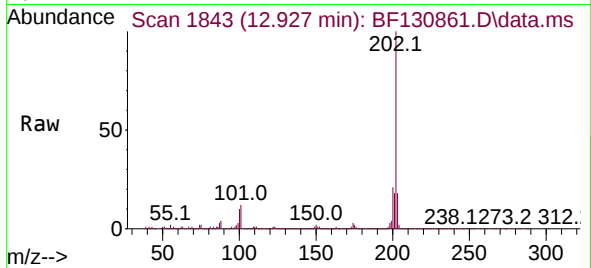
Tgt Ion:240 Resp: 155092  
Ion Ratio Lower Upper  
240 100  
120 9.7 7.0 10.4  
236 26.6 20.5 30.7





#78  
Pyrene  
Concen: 22.297 ng  
RT: 12.927 min Scan# 1843  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

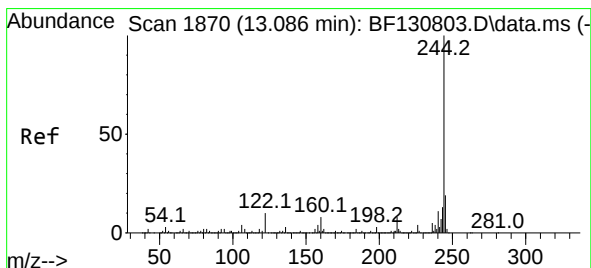
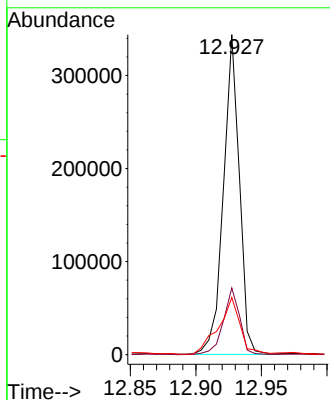
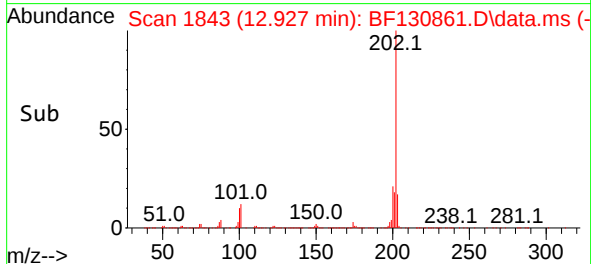
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024



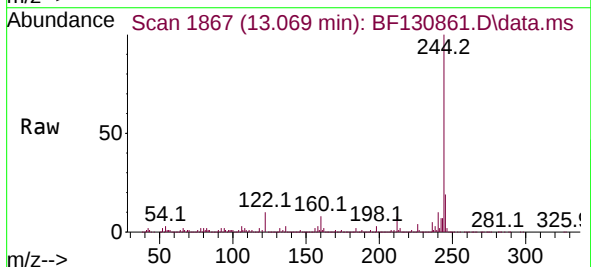
Tgt Ion:202 Resp: 291753  
Ion Ratio Lower Upper  
202 100  
200 20.8 17.2 25.8  
203 17.8 14.5 21.7

Manual Integrations  
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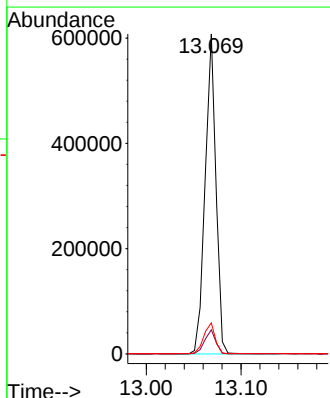
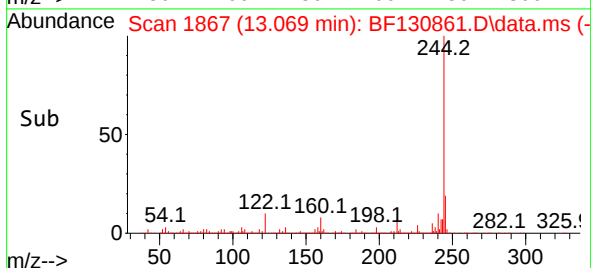
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022

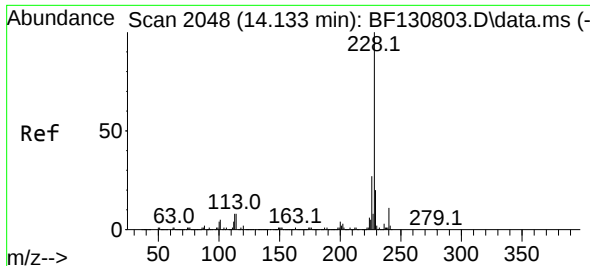


#79  
Terphenyl-d14  
Concen: 57.146 ng  
RT: 13.069 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16



Tgt Ion:244 Resp: 483665  
Ion Ratio Lower Upper  
244 100  
212 7.5 6.2 9.2  
122 9.7 7.9 11.9





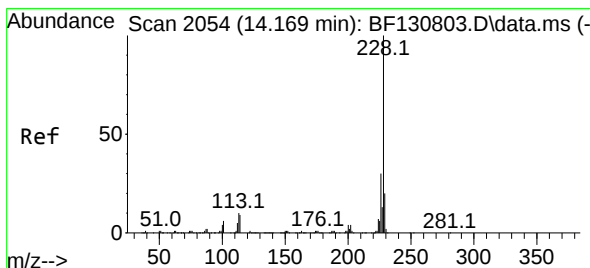
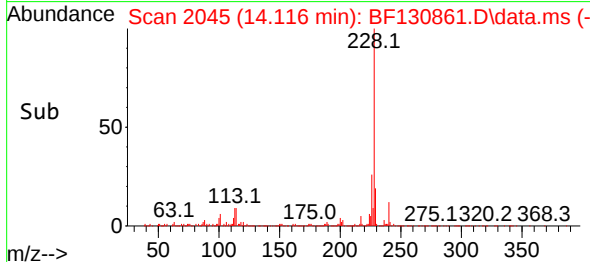
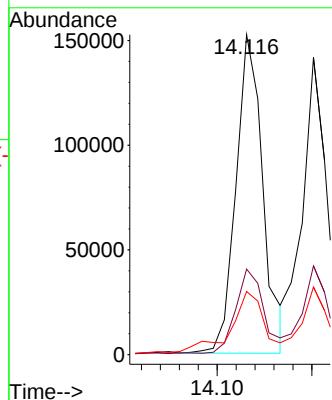
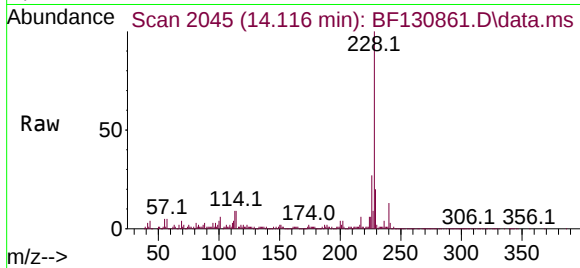
#81  
Benzo(a)anthracene  
Concen: 14.599 ng  
RT: 14.116 min Scan# 2045  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024

Tgt Ion:228 Resp: 150112  
Ion Ratio Lower Upper  
228 100  
226 26.7 21.4 32.2  
229 19.7 15.8 23.6

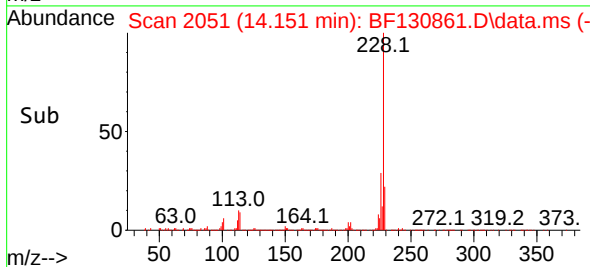
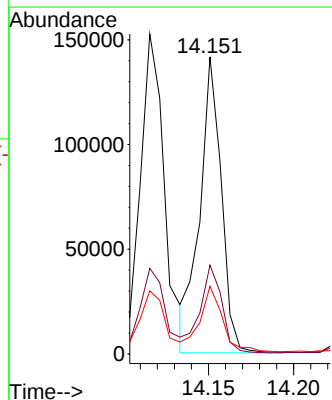
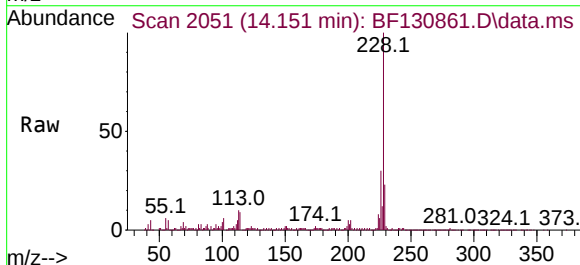
Manual Integrations  
APPROVED

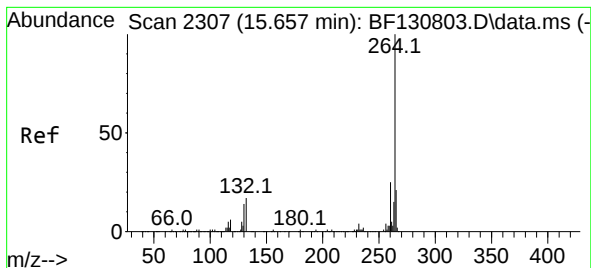
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



#83  
Chrysene  
Concen: 12.547 ng  
RT: 14.151 min Scan# 2051  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

Tgt Ion:228 Resp: 124448  
Ion Ratio Lower Upper  
228 100  
226 29.9 23.9 35.9  
229 22.7 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.645 min Scan# 2307

Delta R.T. -0.000 min

Lab File: BF130861.D

Acq: 29 Oct 2022 17:16

Instrument :

BNA\_F

ClientSampleId :

TP7-1024

Tgt Ion:264 Resp: 114936

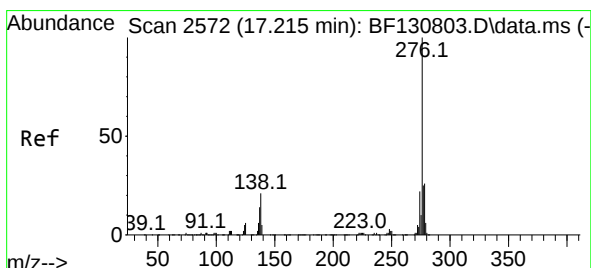
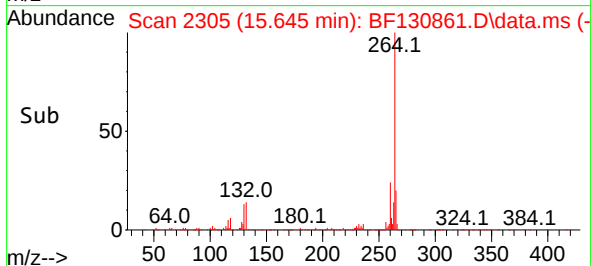
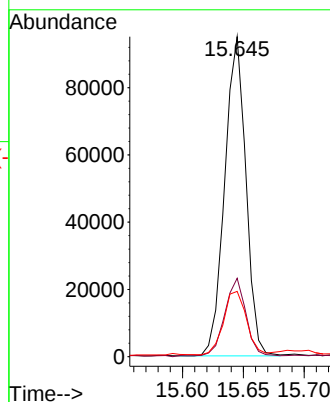
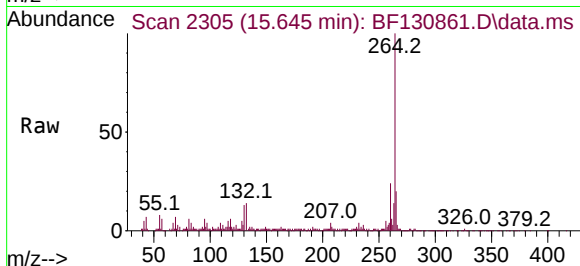
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.5  | 19.9  | 29.9  |
| 265 | 20.4  | 17.0  | 25.6  |

Manual Integrations

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Supervised By :Jagrut Upadhyay 11/01/2022



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.609 ng

RT: 17.186 min Scan# 2567

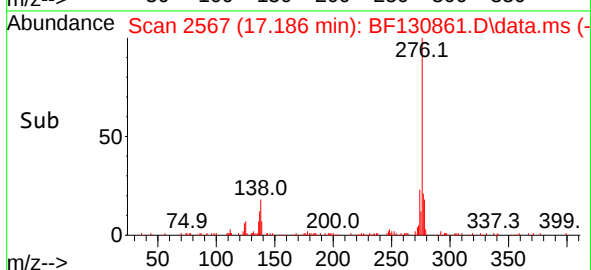
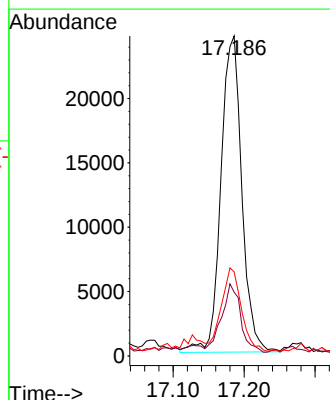
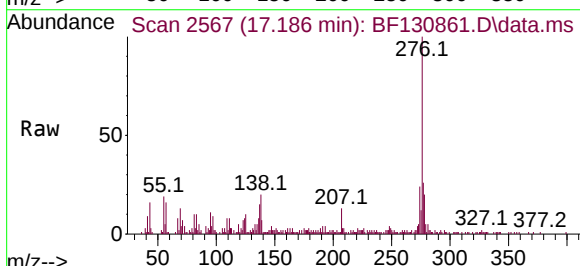
Delta R.T. -0.006 min

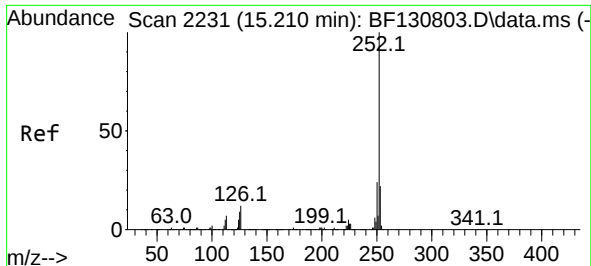
Lab File: BF130861.D

Acq: 29 Oct 2022 17:16

Tgt Ion:276 Resp: 50442

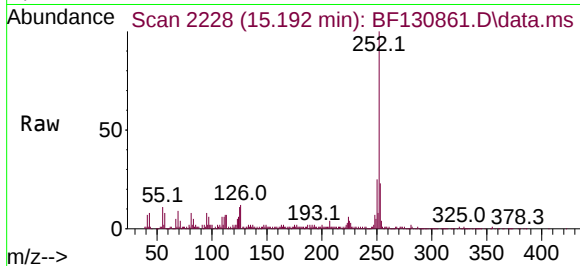
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 19.7  | 19.1  | 28.7  |
| 277 | 25.5  | 20.1  | 30.1  |





#88  
Benzo(b)fluoranthene  
Concen: 16.730 ng m  
RT: 15.192 min Scan# 2228  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

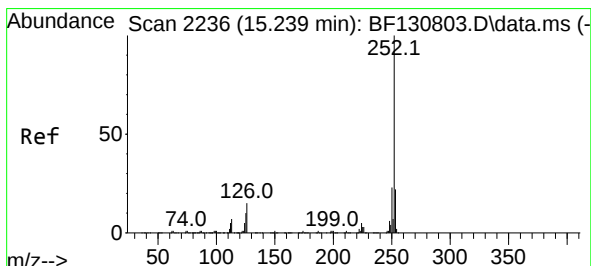
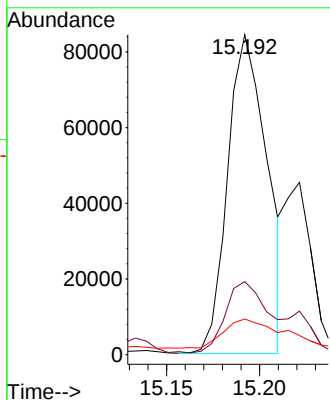
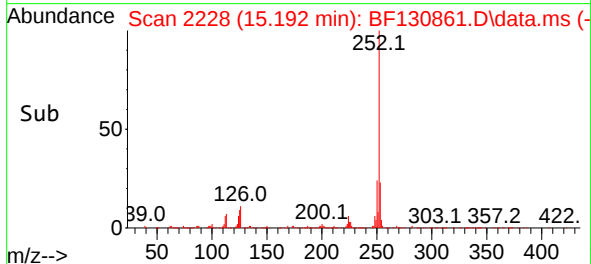
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024



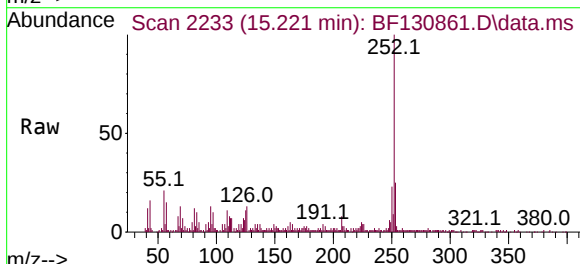
Tgt Ion:252 Resp: 124304  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.5 26.3  
125 11.1 7.0 10.4

Manual Integrations  
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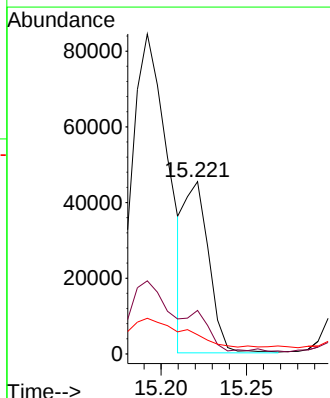
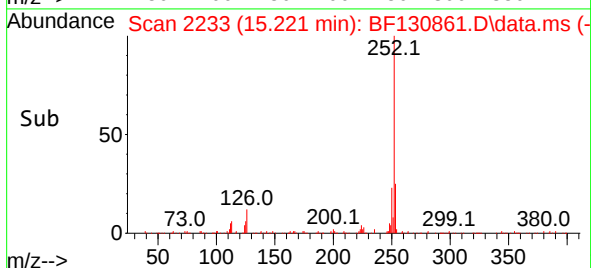
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022

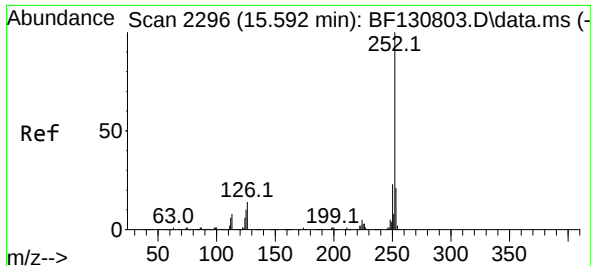


#89  
Benzo(k)fluoranthene  
Concen: 6.183 ng m  
RT: 15.221 min Scan# 2233  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16



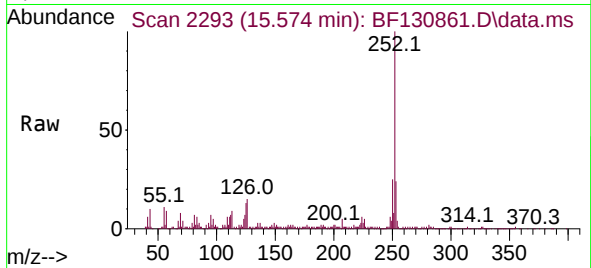
Tgt Ion:252 Resp: 44762  
Ion Ratio Lower Upper  
252 100  
253 25.2 17.5 26.3  
125 11.1 8.0 12.0





#90  
Benzo(a)pyrene  
Concen: 15.061 ng  
RT: 15.574 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

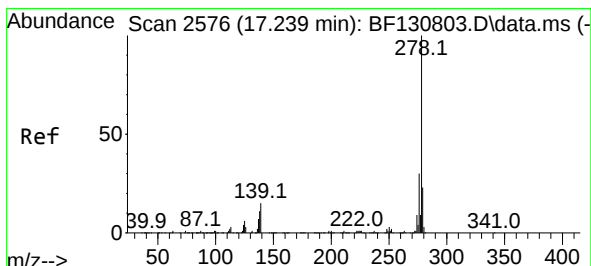
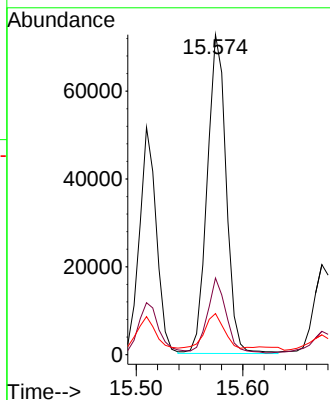
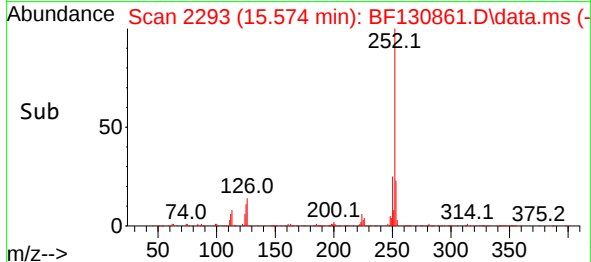
Instrument :  
BNA\_F  
ClientSampleId :  
TP7-1024



Tgt Ion:252 Resp: 8995  
Ion Ratio Lower Upper  
252 100  
253 23.9 16.8 25.2  
125 12.8 8.3 12.5

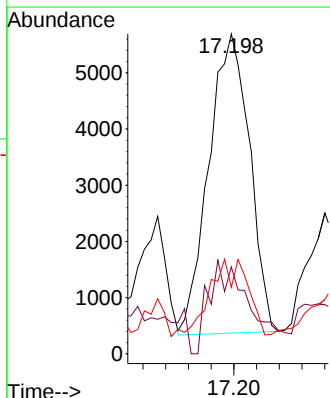
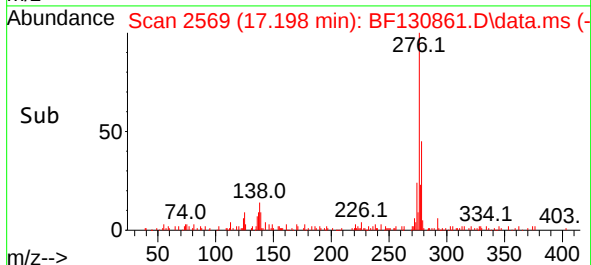
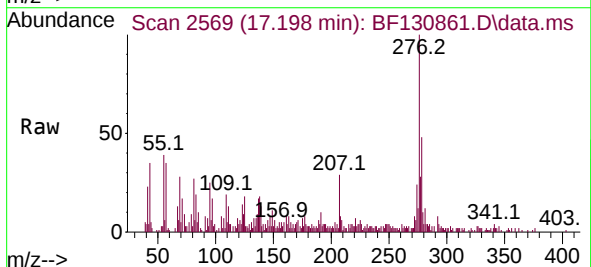
Manual Integrations  
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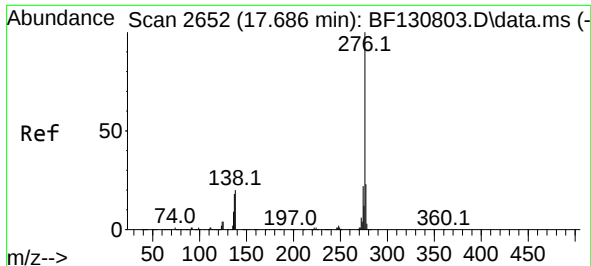
Reviewed By :Christian Giraldo 10/31/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



#91  
Dibenzo(a,h)anthracene  
Concen: 2.131 ng  
RT: 17.198 min Scan# 2569  
Delta R.T. -0.018 min  
Lab File: BF130861.D  
Acq: 29 Oct 2022 17:16

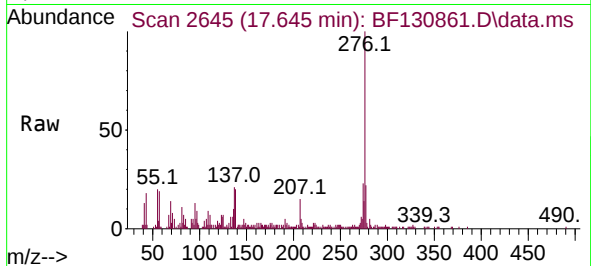
Tgt Ion:278 Resp: 13258  
Ion Ratio Lower Upper  
278 100  
139 27.2 11.9 17.9#  
279 20.8 18.6 28.0





#92  
 Benzo(g,h,i)perylene  
 Concen: 7.248 ng  
 RT: 17.645 min Scan# 2645  
 Delta R.T. -0.024 min  
 Lab File: BF130861.D  
 Acq: 29 Oct 2022 17:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP7-1024



Tgt Ion: 276 Resp: 46010  
 Ion Ratio Lower Upper  
 276 100  
 277 22.1 18.8 28.2  
 138 20.4 16.3 24.5

Manual Integrations  
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Reviewed By : Christian Giraldo 10/31/2022  
 Supervised By : Jagrut Upadhyay 11/01/2022

