

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF103122\  
 Data File : BF130890.D  
 Acq On : 31 Oct 2022 20:58  
 Operator : CG\JU  
 Sample : N5361-01 2X  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-2-102822

### Manual Integrations APPROVED

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

Quant Time: Nov 01 02:32:50 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   | 6.939  | 152  | 75448    | 20.000 | ng    | 0.00     |        |
| 21) Naphthalene-d8          | 8.228  | 136  | 246995   | 20.000 | ng    | # 0.00   |        |
| 39) Acenaphthene-d10        | 9.986  | 164  | 112108   | 20.000 | ng    | -0.01    |        |
| 64) Phenanthrene-d10        | 11.480 | 188  | 204429   | 20.000 | ng    | 0.00     |        |
| 76) Chrysene-d12            | 14.133 | 240  | 144674   | 20.000 | ng    | # 0.00   |        |
| 86) Perylene-d12            | 15.657 | 264  | 105439   | 20.000 | ng    | 0.01     |        |
| System Monitoring Compounds |        |      |          |        |       |          |        |
| 5) 2-Fluorophenol           | 5.551  | 112  | 197900   | 45.473 | ng    | 0.00     |        |
| 7) Phenol-d6                | 6.557  | 99   | 234253   | 41.420 | ng    | 0.00     |        |
| 23) Nitrobenzene-d5         | 7.498  | 82   | 142899   | 34.886 | ng    | -0.02    |        |
| 42) 2,4,6-Tribromophenol    | 10.774 | 330  | 45336    | 48.039 | ng    | -0.01    |        |
| 45) 2-Fluorobiphenyl        | 9.304  | 172  | 235035   | 31.697 | ng    | 0.00     |        |
| 79) Terphenyl-d14           | 13.068 | 244  | 239607   | 30.349 | ng    | 0.00     |        |
| Target Compounds            |        |      |          |        |       |          | Qvalue |
| 49) Acenaphthylene          | 9.851  | 152  | 72893    | 7.202  | ng    |          | 98     |
| 52) Acenaphthene            | 10.022 | 154  | 20038    | 3.202  | ng    |          | 98     |
| 55) Dibenzofuran            | 10.192 | 168  | 18762    | 2.068  | ng    | #        | 94     |
| 58) Fluorene                | 10.539 | 166  | 42922    | 6.009  | ng    |          | 98     |
| 71) Phenanthrene            | 11.510 | 178  | 406572   | 38.533 | ng    |          | 99     |
| 72) Anthracene              | 11.557 | 178  | 106529   | 10.236 | ng    |          | 98     |
| 73) Carbazole               | 11.710 | 167  | 23543    | 2.526  | ng    |          | 95     |
| 75) Fluoranthene            | 12.704 | 202  | 714036   | 63.693 | ng    |          | 99     |
| 78) Pyrene                  | 12.939 | 202  | 730080   | 59.814 | ng    |          | 98     |
| 81) Benzo(a)anthracene      | 14.121 | 228  | 305035   | 31.801 | ng    |          | 92     |
| 83) Chrysene                | 14.163 | 228  | 302999   | 32.749 | ng    |          | 98     |
| 87) Indeno(1,2,3-cd)pyrene  | 17.203 | 276  | 117281   | 16.750 | ng    | #        | 93     |
| 88) Benzo(b)fluoranthene    | 15.204 | 252  | 317465m  | 46.577 | ng    |          |        |
| 89) Benzo(k)fluoranthene    | 15.233 | 252  | 74500m   | 11.217 | ng    |          |        |
| 90) Benzo(a)pyrene          | 15.592 | 252  | 208901   | 38.127 | ng    |          | 95     |
| 91) Dibenzo(a,h)anthracene  | 17.227 | 278  | 29624    | 5.190  | ng    | #        | 86     |
| 92) Benzo(g,h,i)perylene    | 17.680 | 276  | 115159   | 19.775 | ng    |          | 99     |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF103122\  
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Sample : N5361-01 2X  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Nov 01 02:32:50 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

## Instrument :

BNA\_F

## ClientSampleId :

OR-2-102822

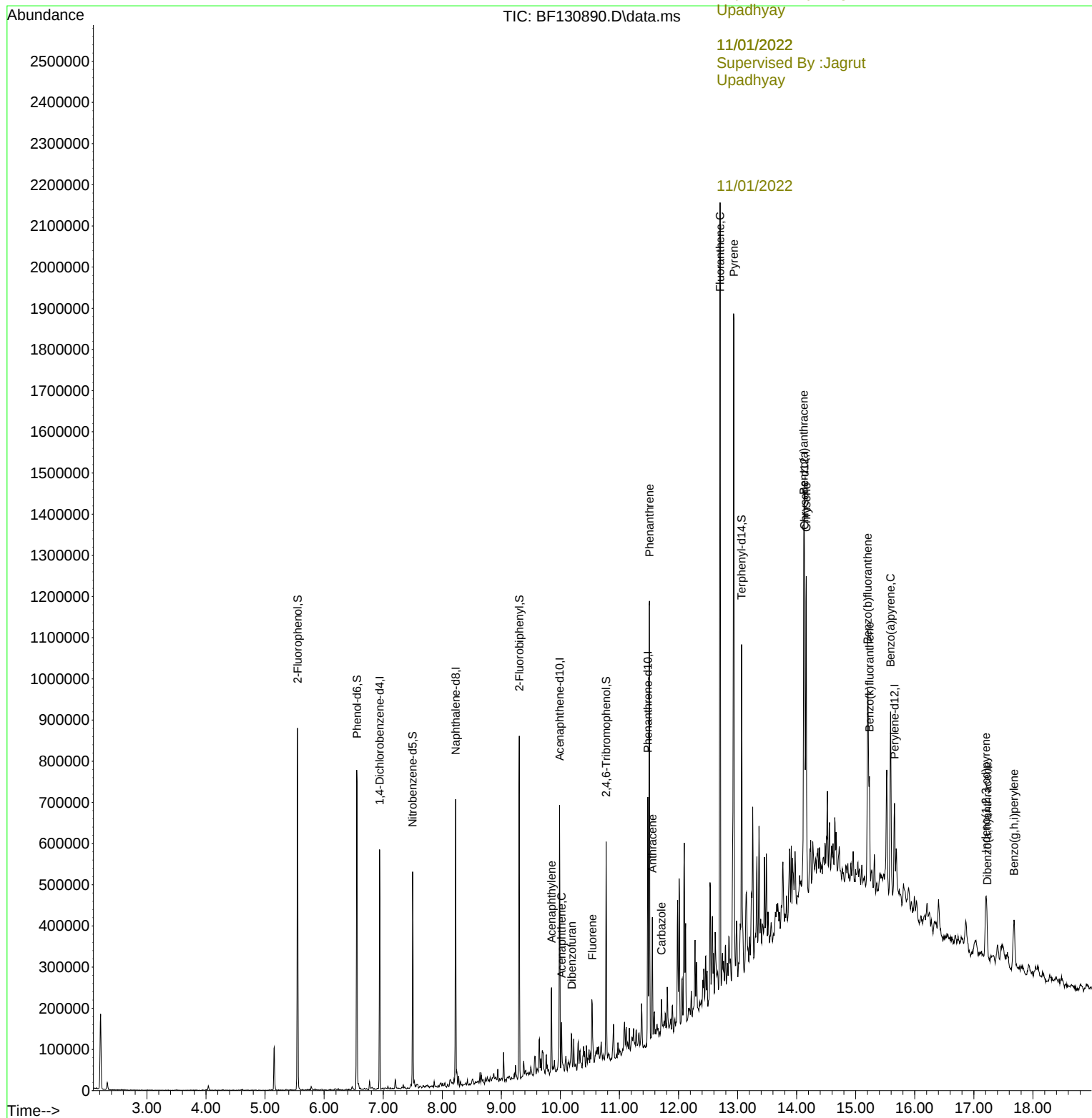
## Manual Integrations

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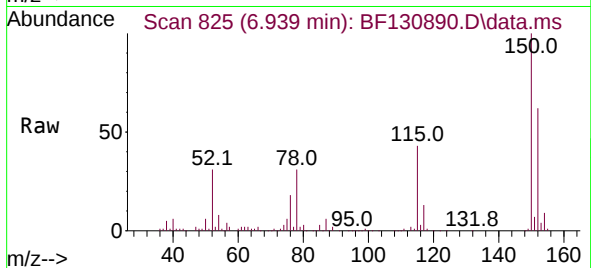
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#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.939 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :  
BNA\_F  
ClientSampleId :  
OR-2-102822



Tgt Ion:152 Resp: 75448  
Ion Ratio Lower Upper  
152 100  
150 161.2 124.1 186.1  
115 70.1 50.1 75.1

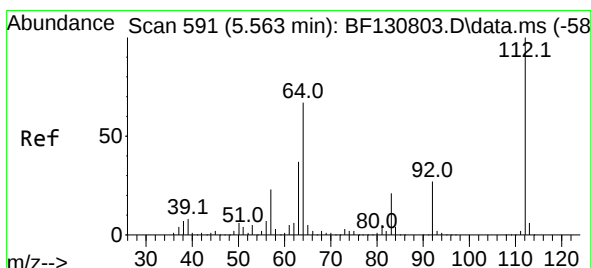
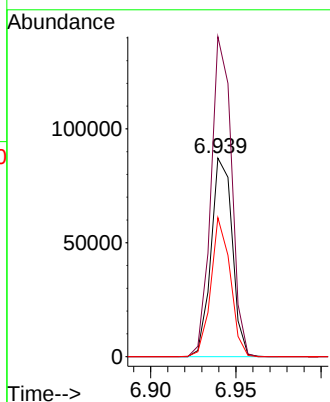
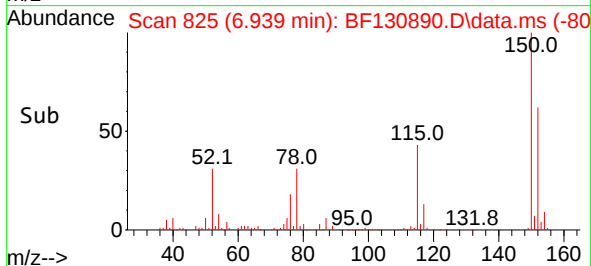
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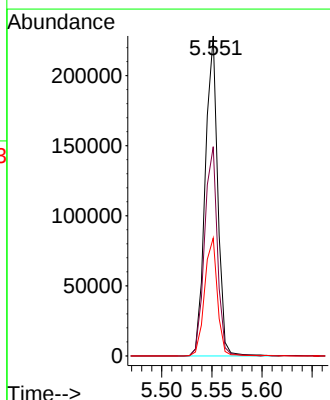
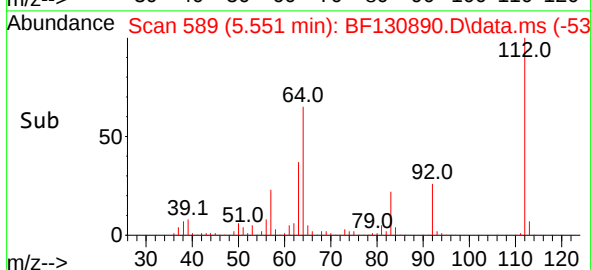
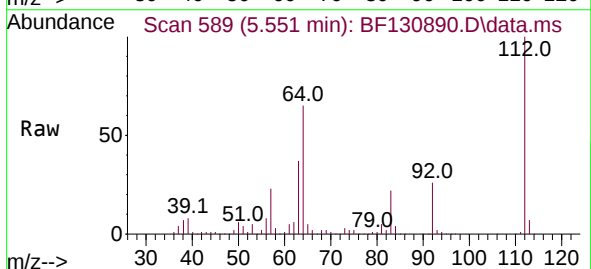
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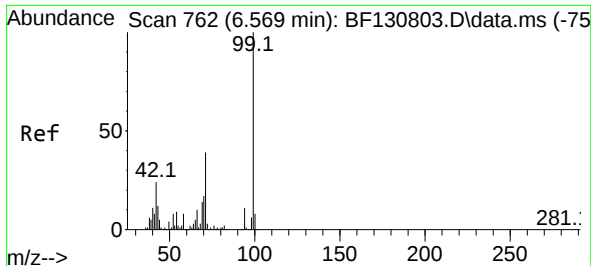
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#5  
2-Fluorophenol  
Concen: 45.473 ng  
RT: 5.551 min Scan# 589  
Delta R.T. -0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

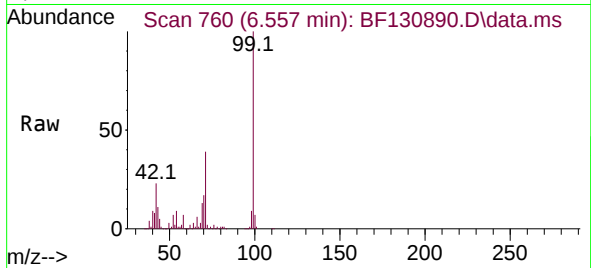
Tgt Ion:112 Resp: 197900  
Ion Ratio Lower Upper  
112 100  
64 65.4 53.9 80.9  
63 36.9 29.4 44.2





#7  
Phenol-d6  
Concen: 41.420 ng  
RT: 6.557 min Scan# 70  
Delta R.T. -0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

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Tgt Ion: 99 Resp: 234253  
Ion Ratio Lower Upper  
99 100  
42 22.9 18.8 28.2  
71 39.0 31.4 47.0

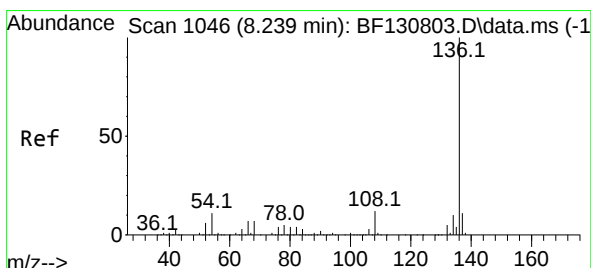
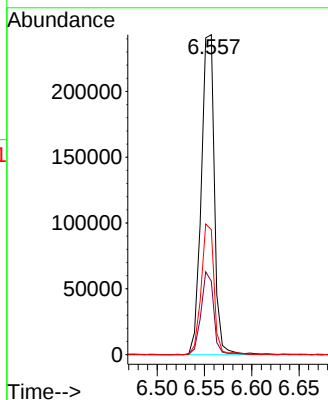
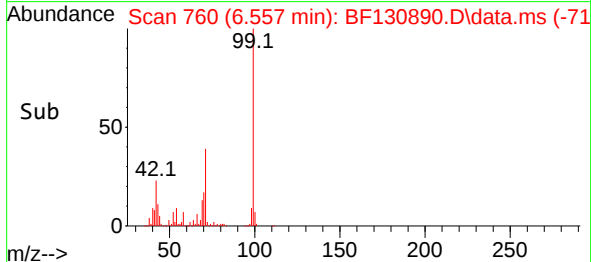
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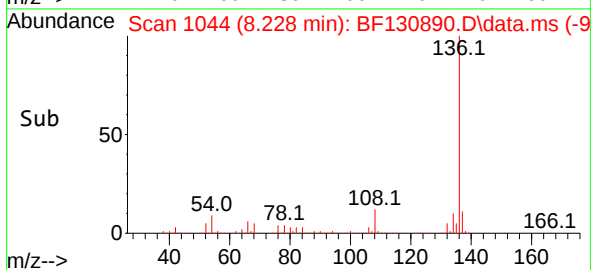
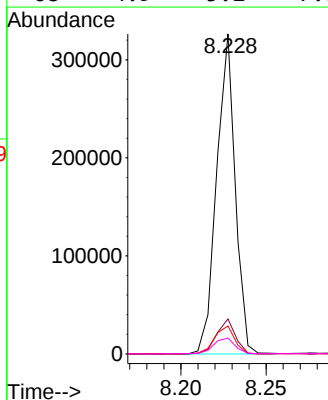
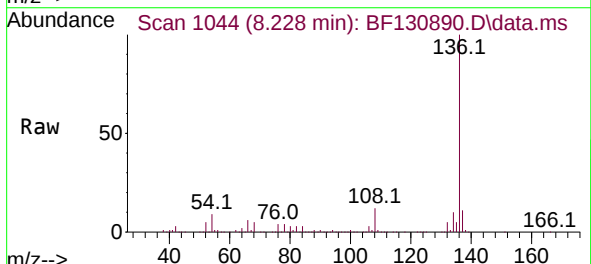
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#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.228 min Scan# 1044  
Delta R.T. -0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

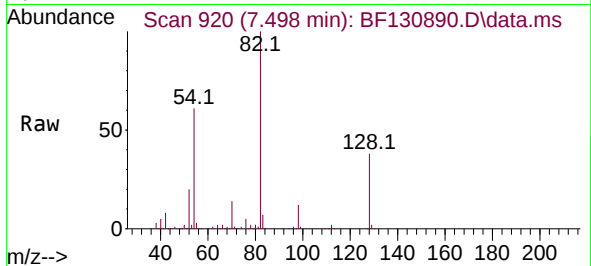
Tgt Ion:136 Resp: 246995  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.2 13.8  
54 8.7 8.8 13.2#  
68 4.9 5.2 7.8#





#23  
Nitrobenzene-d5  
Concen: 34.886 ng  
RT: 7.498 min Scan# 91  
Delta R.T. -0.018 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

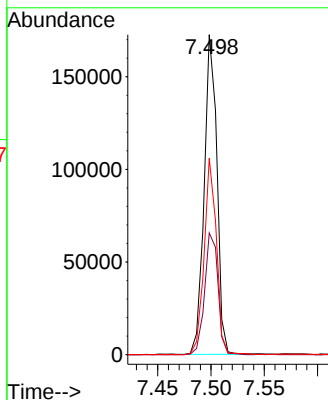
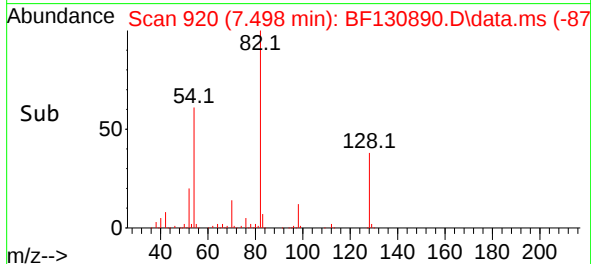
Instrument :  
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Tgt Ion: 82 Resp: 142899  
Ion Ratio Lower Upper  
82 100  
128 38.0 31.2 46.8  
54 61.3 48.0 72.0

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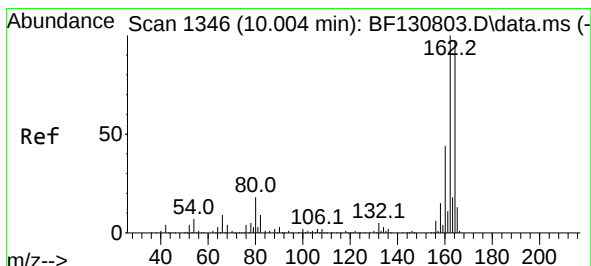
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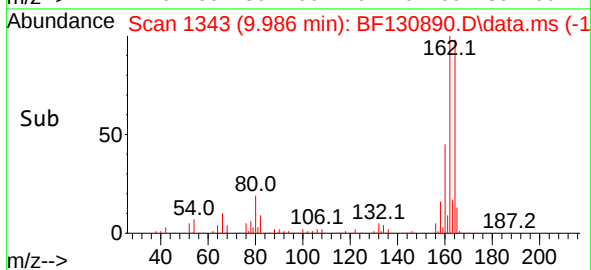
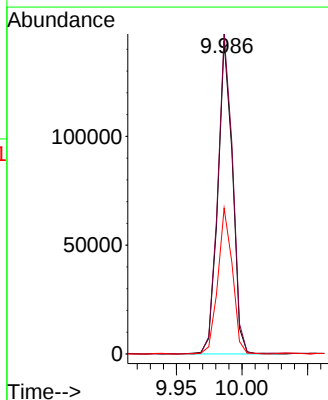
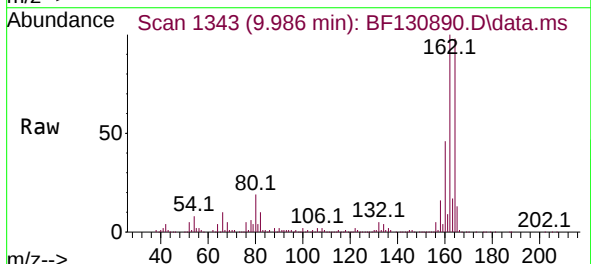
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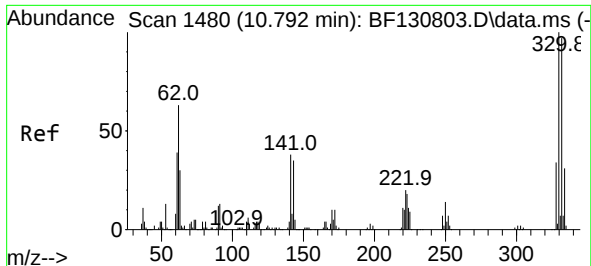
11/01/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.986 min Scan# 1343  
Delta R.T. -0.012 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Tgt Ion:164 Resp: 112108  
Ion Ratio Lower Upper  
164 100  
162 102.3 82.2 123.2  
160 46.6 36.6 54.8





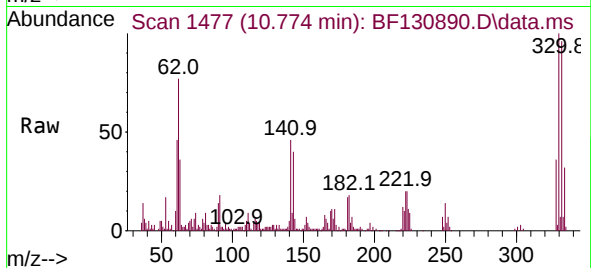
#42  
2,4,6-Tribromophenol  
Concen: 48.039 ng  
RT: 10.774 min Scan# 1480  
Delta R.T. -0.012 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :

BNA\_F

ClientSampleId :

OR-2-102822



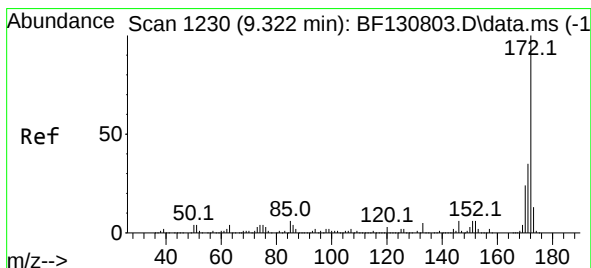
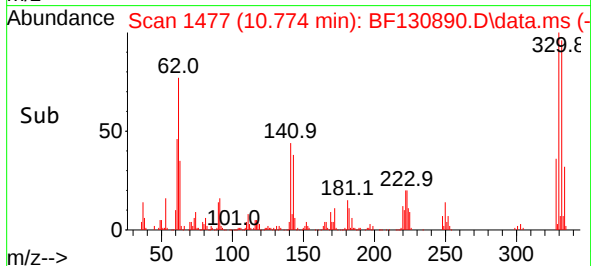
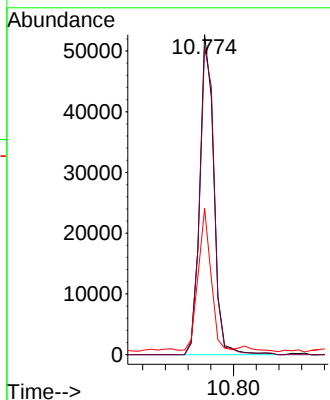
Tgt Ion: 330 Resp: 45336  
Ion Ratio Lower Upper  
330 100  
332 99.3 76.2 114.4  
141 40.1 31.4 47.0

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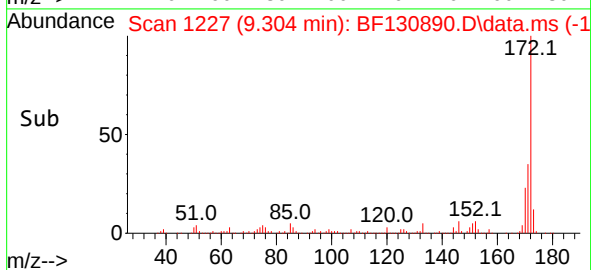
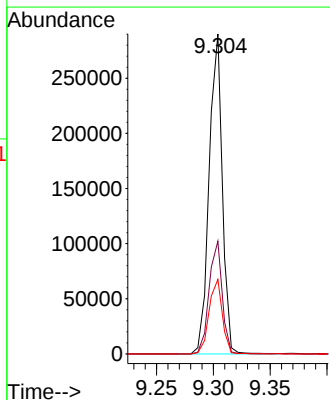
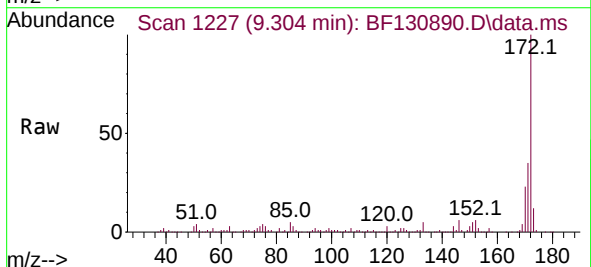
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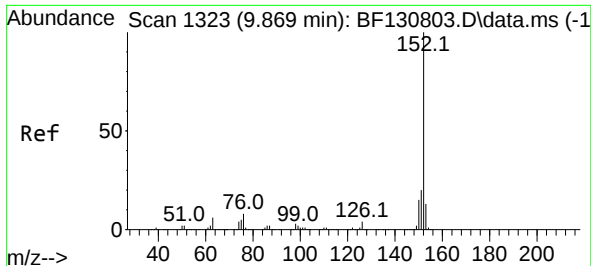
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#45  
2-Fluorobiphenyl  
Concen: 31.697 ng  
RT: 9.304 min Scan# 1227  
Delta R.T. -0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Tgt Ion: 172 Resp: 235035  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.1 42.1  
170 23.3 19.0 28.4





#49

Acenaphthylene

Concen: 7.202 ng

RT: 9.851 min Scan# 1320

Delta R.T. -0.006 min

Lab File: BF130890.D

Acq: 31 Oct 2022 20:58

Instrument :

BNA\_F

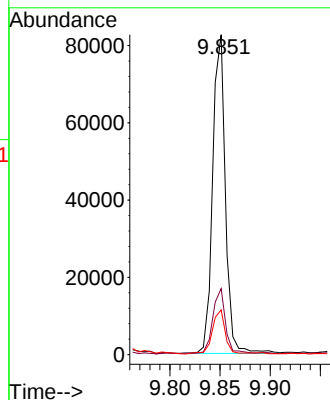
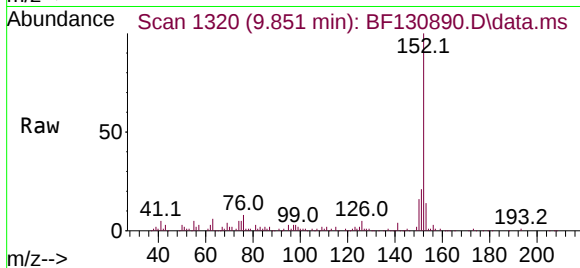
ClientSampleId :

OR-2-102822

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 72893     |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 20.6  | 15.8 23.8 |
| 153         | 14.0  | 10.2 15.4 |

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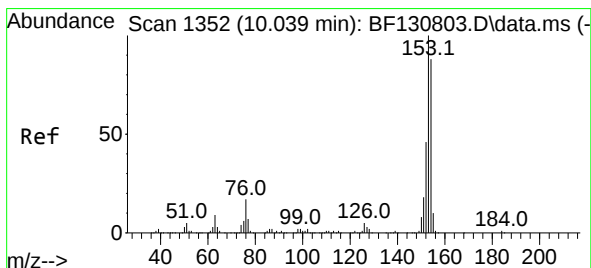
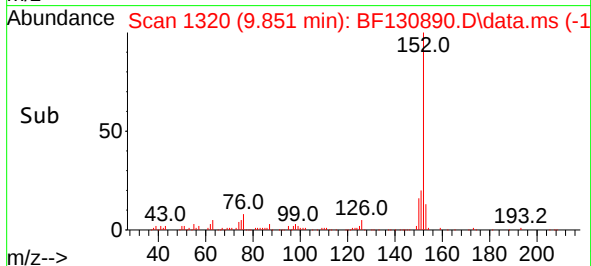
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11/01/2022



#52

Acenaphthene

Concen: 3.202 ng

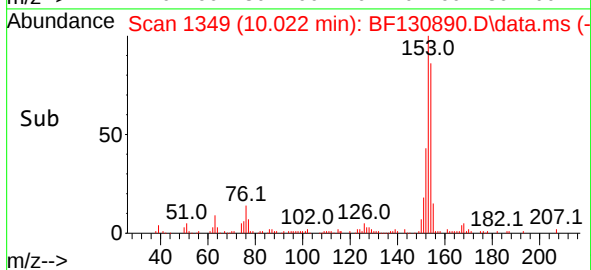
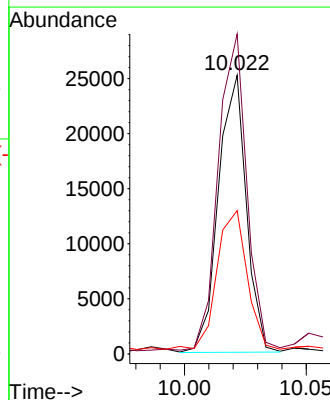
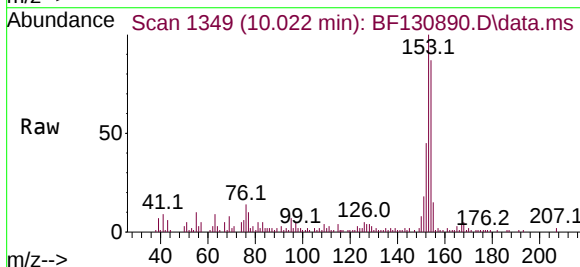
RT: 10.022 min Scan# 1349

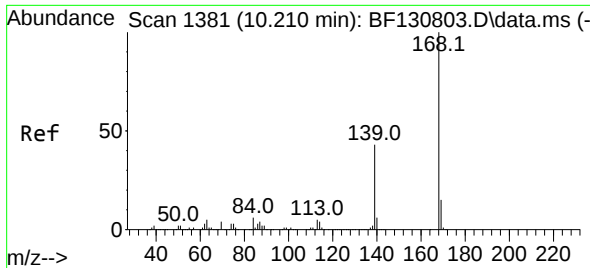
Delta R.T. -0.012 min

Lab File: BF130890.D

Acq: 31 Oct 2022 20:58

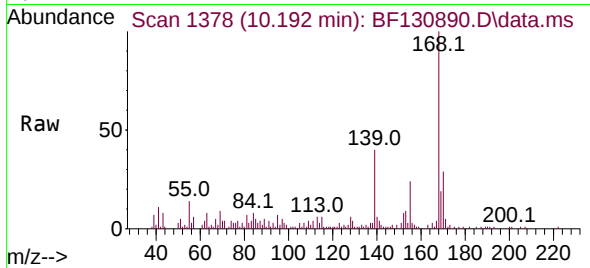
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:154 | Resp: | 20038      |
| Ion Ratio   | Lower | Upper      |
| 154         | 100   |            |
| 153         | 114.8 | 90.5 135.7 |
| 152         | 51.4  | 42.0 63.0  |





#55  
Dibenzenofuran  
Concen: 2.068 ng  
RT: 10.192 min Scan# 1381  
Delta R.T. -0.012 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :  
BNA\_F  
ClientSampleId :  
OR-2-102822



Tgt Ion:168 Resp: 18762  
Ion Ratio Lower Upper  
168 100  
139 40.0 34.3 51.5  
169 18.5 11.9 17.9

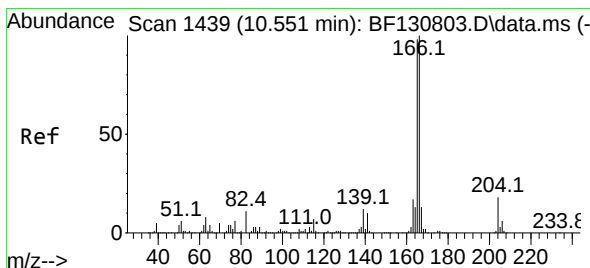
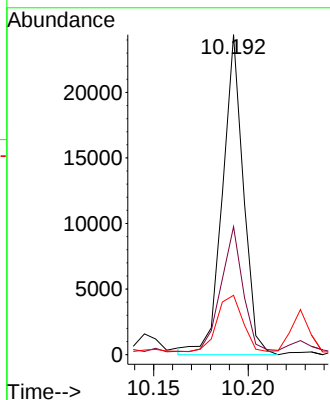
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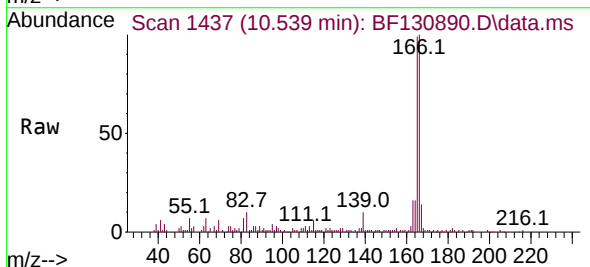
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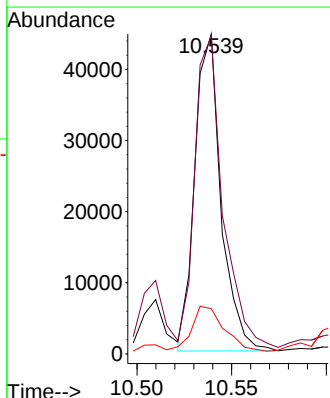
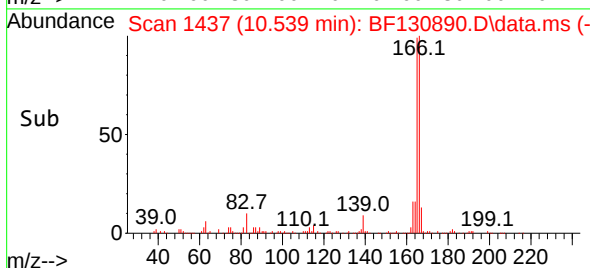
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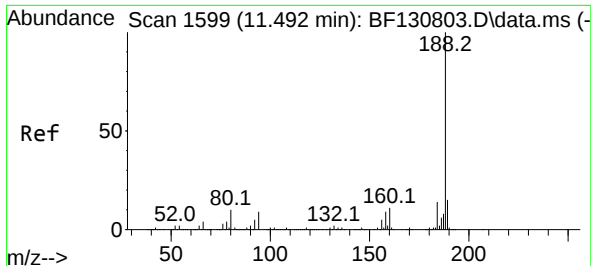


#58  
Fluorene  
Concen: 6.009 ng  
RT: 10.539 min Scan# 1437  
Delta R.T. -0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58



Tgt Ion:166 Resp: 42922  
Ion Ratio Lower Upper  
166 100  
165 99.4 78.1 117.1  
167 14.1 10.4 15.6





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.480 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :

BNA\_F

ClientSampleId :

OR-2-102822

Tgt Ion:188 Resp: 204429  
Ion Ratio Lower Upper  
188 100  
94 9.0 7.4 11.2  
80 10.1 8.0 12.0

Manual Integrations  
APPROVED

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

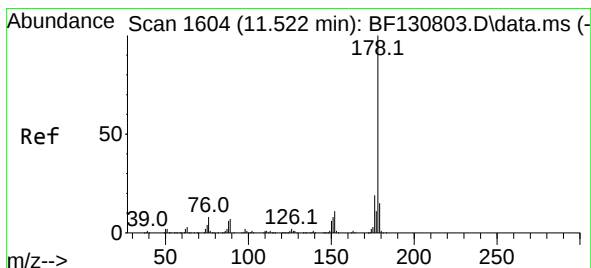
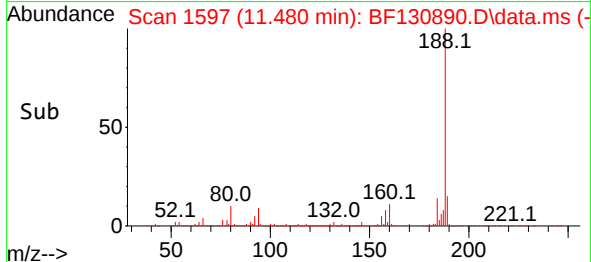
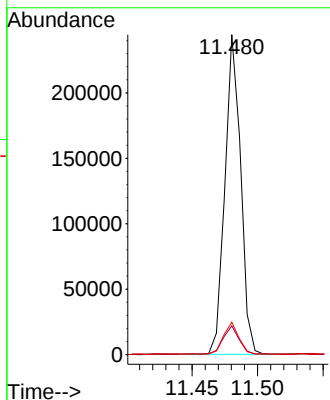
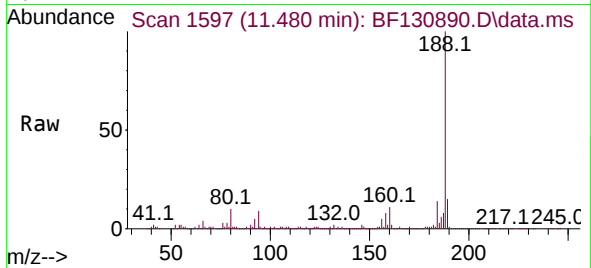
11/01/2022

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Upadhyay

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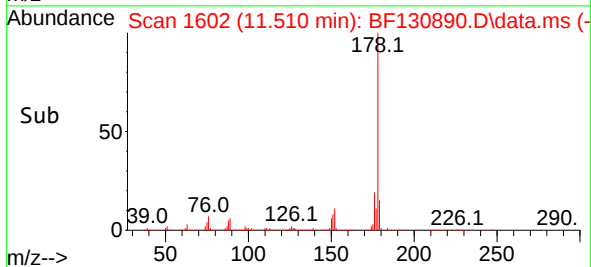
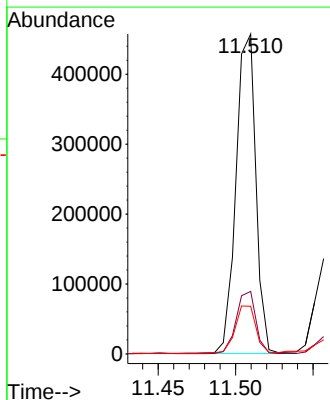
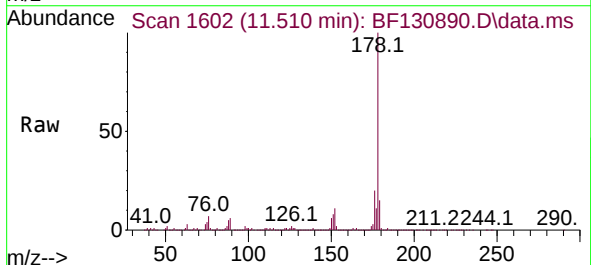
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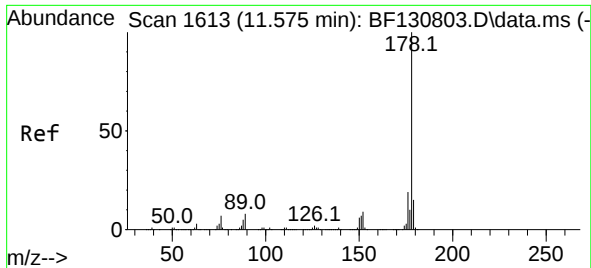
11/01/2022



#71  
Phenanthrene  
Concen: 38.533 ng  
RT: 11.510 min Scan# 1602  
Delta R.T. -0.000 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

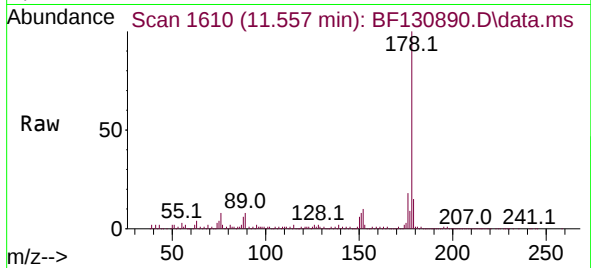
Tgt Ion:178 Resp: 406572  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.5 23.3  
179 14.9 12.2 18.2





#72  
 Anthracene  
 Concen: 10.236 ng  
 RT: 11.557 min Scan# 1610  
 Delta R.T. -0.006 min  
 Lab File: BF130890.D  
 Acq: 31 Oct 2022 20:58

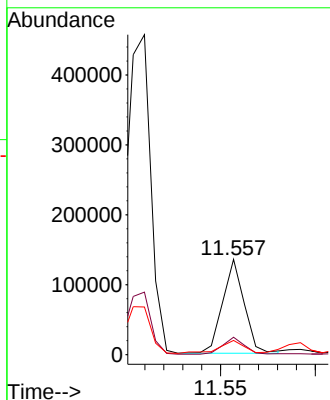
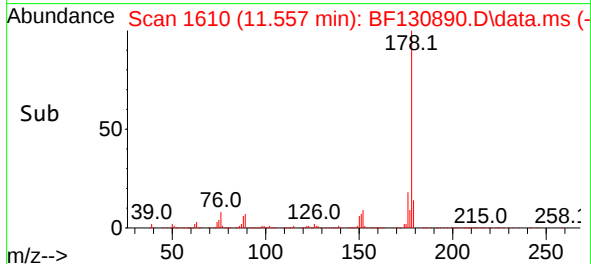
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-2-102822



Tgt Ion:178 Resp: 106529  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 15.4 23.0  
 179 14.8 12.2 18.4

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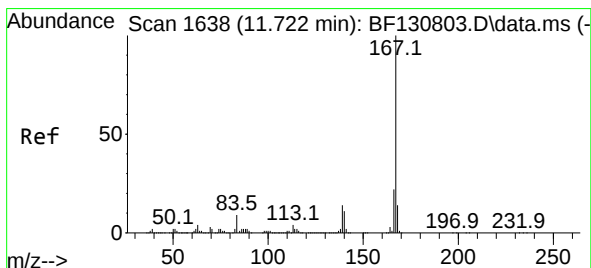
Reviewed By :Christian Giraldo 11/01/2022  
 Supervised By :Jagrut Upadhyay 11/01/2022



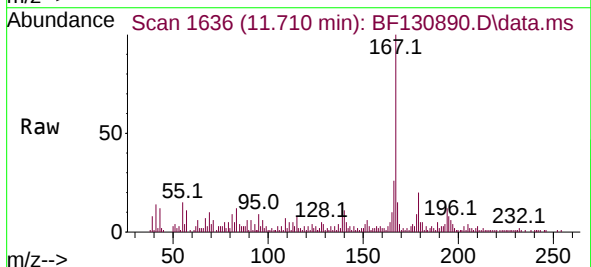
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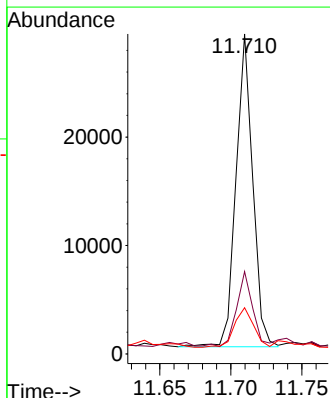
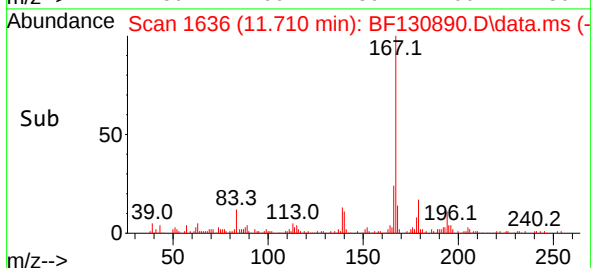
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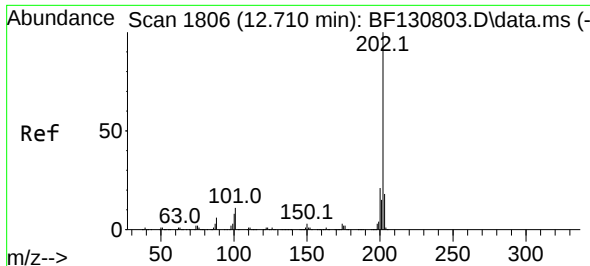


#73  
 Carbazole  
 Concen: 2.526 ng  
 RT: 11.710 min Scan# 1636  
 Delta R.T. -0.006 min  
 Lab File: BF130890.D  
 Acq: 31 Oct 2022 20:58



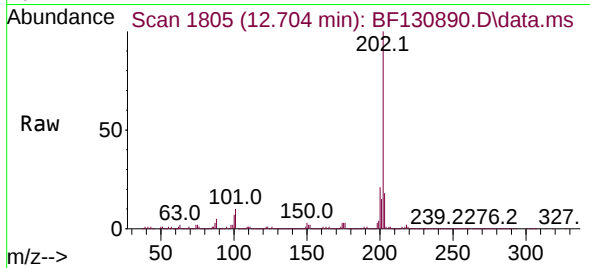
Tgt Ion:167 Resp: 23543  
 Ion Ratio Lower Upper  
 167 100  
 166 25.7 17.4 26.0  
 139 14.4 11.3 16.9





#75  
Fluoranthene  
Concen: 63.693 ng  
RT: 12.704 min Scan# 1806  
Delta R.T. -0.000 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

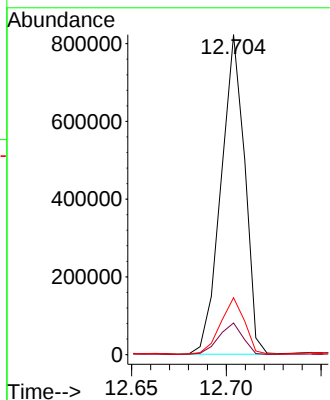
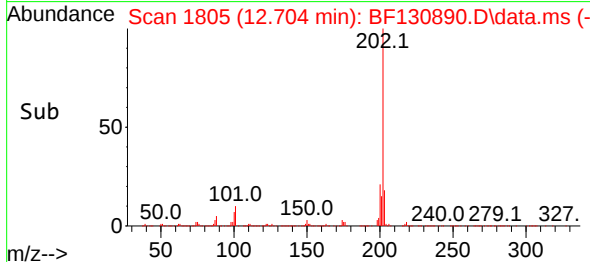
Instrument :  
BNA\_F  
ClientSampleId :  
OR-2-102822



Tgt Ion:202 Resp: 714036  
Ion Ratio Lower Upper  
202 100  
101 9.9 0.0 30.9  
203 17.8 0.0 37.7

Manual Integrations  
APPROVED

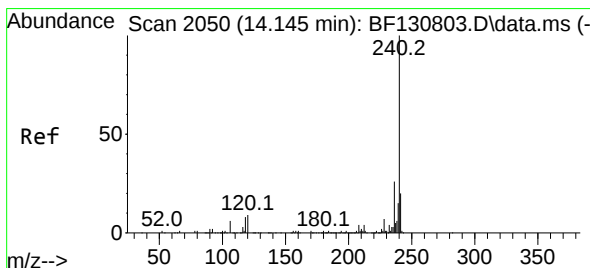
Reviewed By :Christian Giraldo 11/01/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



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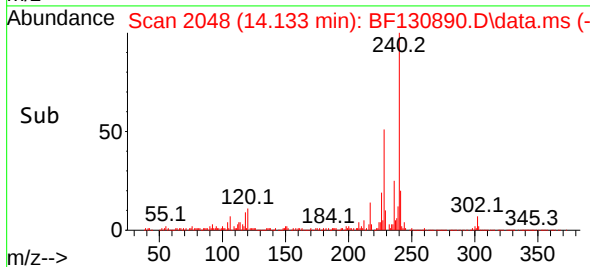
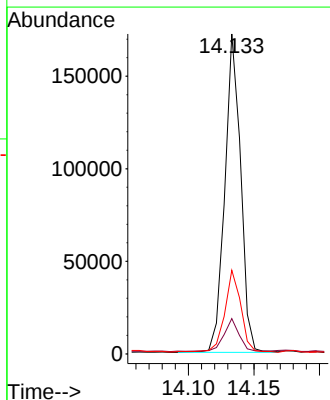
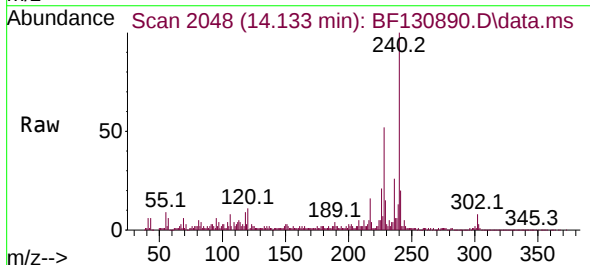
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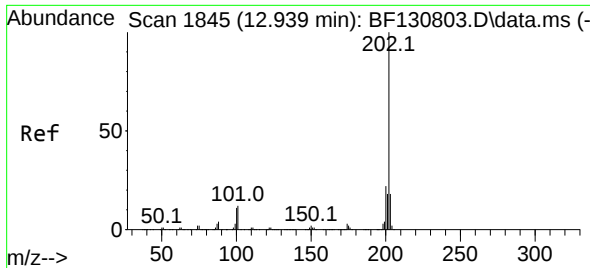
11/01/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.133 min Scan# 2048  
Delta R.T. -0.000 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

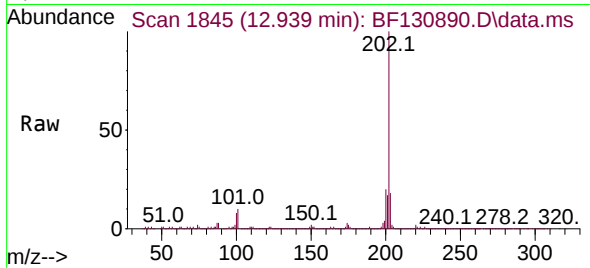
Tgt Ion:240 Resp: 144674  
Ion Ratio Lower Upper  
240 100  
120 11.0 7.0 10.4#  
236 26.1 20.5 30.7





#78  
Pyrene  
Concen: 59.814 ng  
RT: 12.939 min Scan# 1845  
Delta R.T. 0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

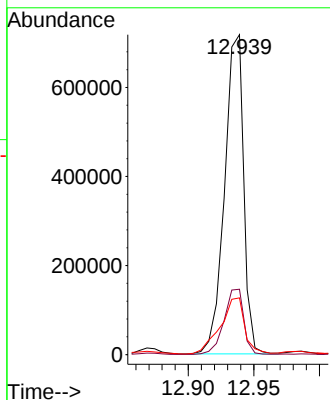
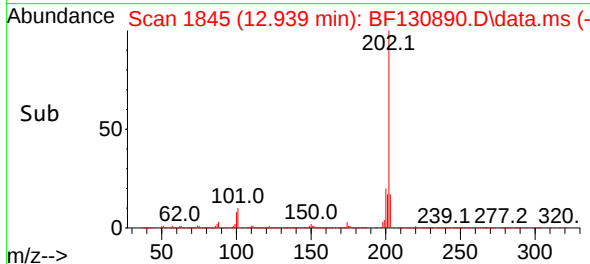
Instrument :  
BNA\_F  
ClientSampleId :  
OR-2-102822



Tgt Ion:202 Resp: 730080  
Ion Ratio Lower Upper  
202 100  
200 20.4 17.2 25.8  
203 17.7 14.5 21.7

Manual Integrations  
APPROVED

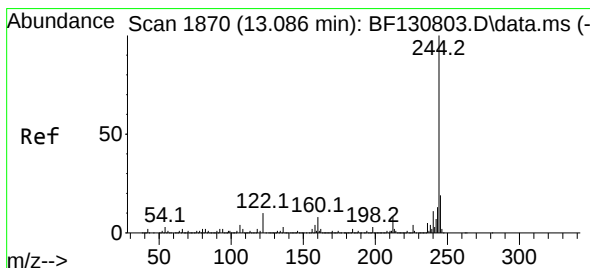
Reviewed By :Christian Giraldo 11/01/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



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Supervised By :Jagrut  
Upadhyay

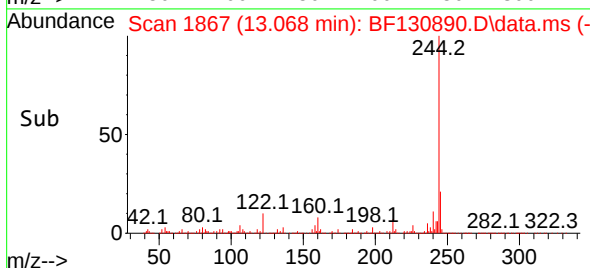
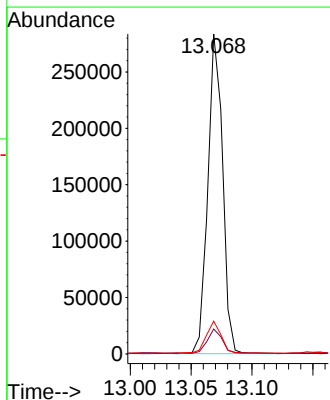
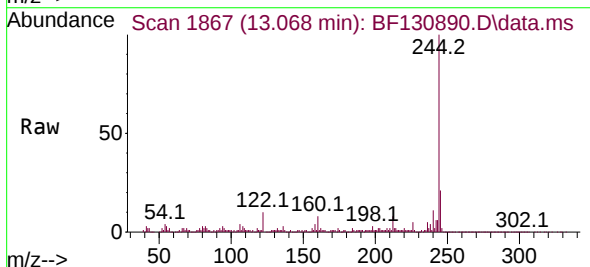
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Upadhyay

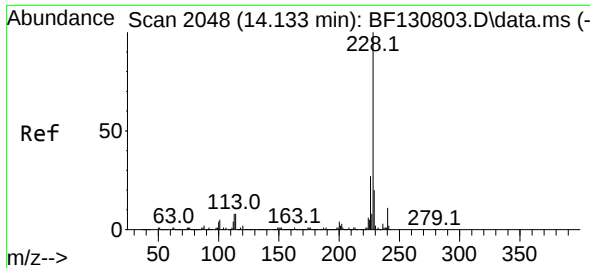
11/01/2022



#79  
Terphenyl-d14  
Concen: 30.349 ng  
RT: 13.068 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Tgt Ion:244 Resp: 239607  
Ion Ratio Lower Upper  
244 100  
212 7.8 6.2 9.2  
122 10.2 7.9 11.9





#81  
Benzo(a)anthracene  
Concen: 31.801 ng  
RT: 14.121 min Scan# 2048  
Delta R.T. -0.000 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :

BNF

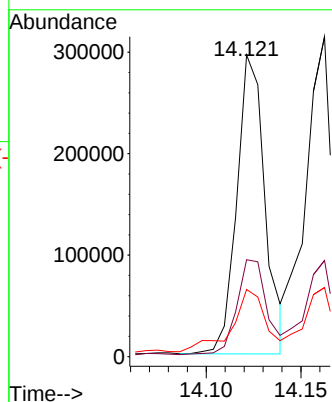
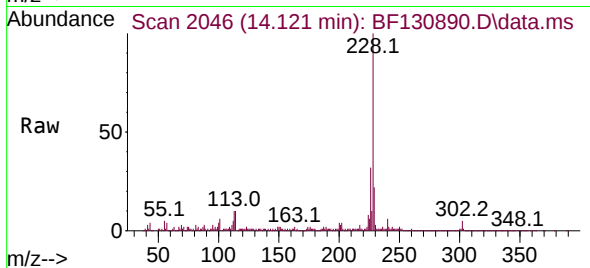
ClientSampleId :

OR-2-102822

Tgt Ion:228 Resp: 305035  
Ion Ratio Lower Upper  
228 100  
226 32.1 21.4 32.2  
229 22.3 15.8 23.6

Manual Integrations  
APPROVED

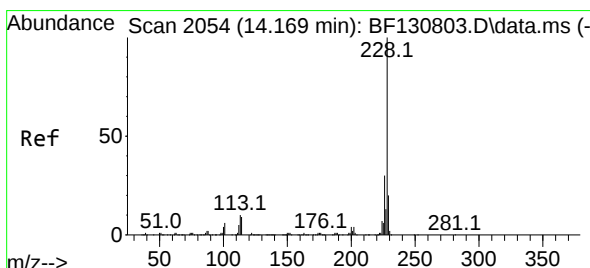
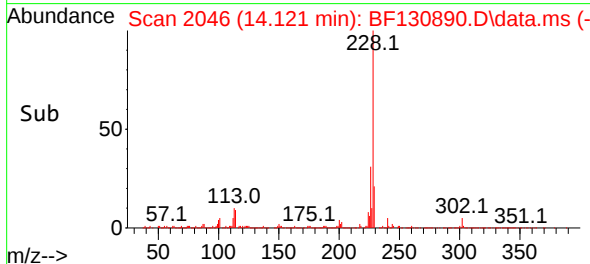
Reviewed By :Christian Giraldo 11/01/2022  
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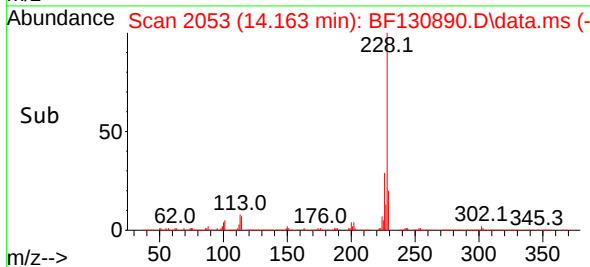
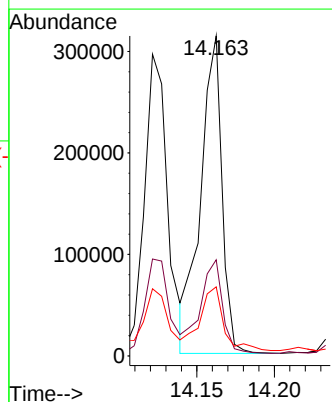
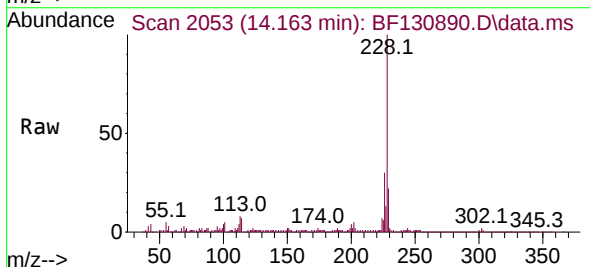
11/01/2022  
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Upadhyay

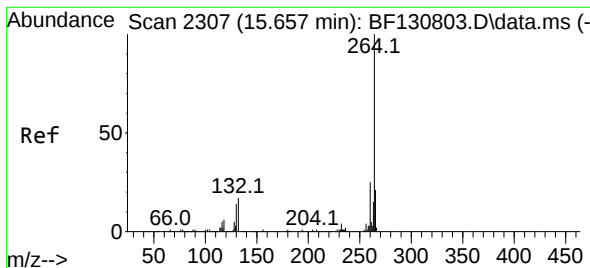
11/01/2022



#83  
Chrysene  
Concen: 32.749 ng  
RT: 14.163 min Scan# 2053  
Delta R.T. 0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Tgt Ion:228 Resp: 302999  
Ion Ratio Lower Upper  
228 100  
226 30.0 23.9 35.9  
229 21.6 15.8 23.6





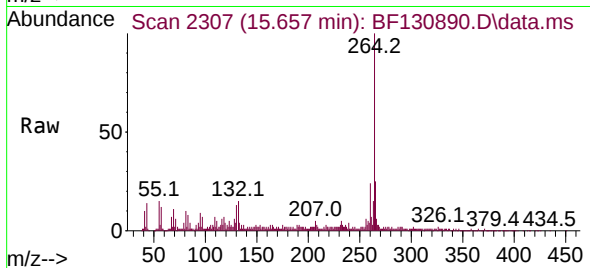
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.657 min Scan# 2307  
Delta R.T. 0.012 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :

BNA\_F

ClientSampleId :

OR-2-102822



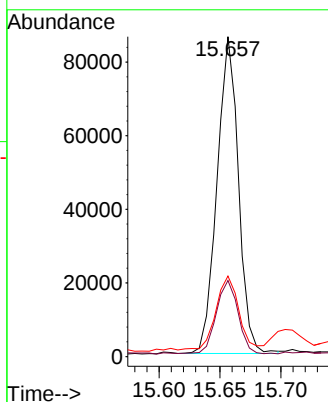
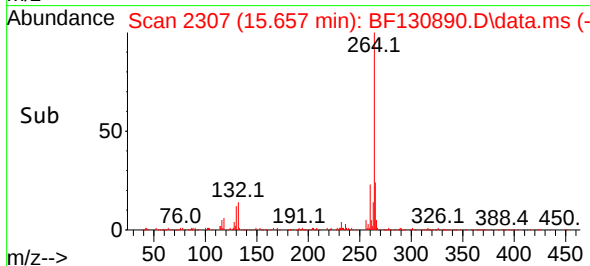
Tgt Ion:264 Resp: 105439  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.9 29.9  
265 25.2 17.0 25.6

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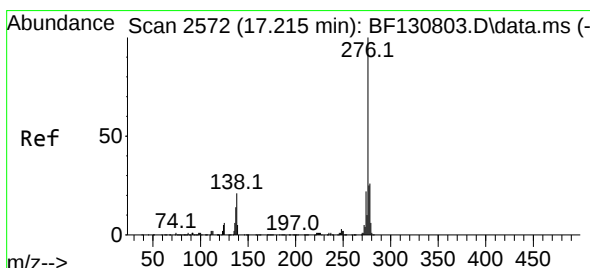
Reviewed By :Christian Giraldo 11/01/2022  
Supervised By :Jagrut Upadhyay 11/01/2022

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Supervised By :Jagrut  
Upadhyay

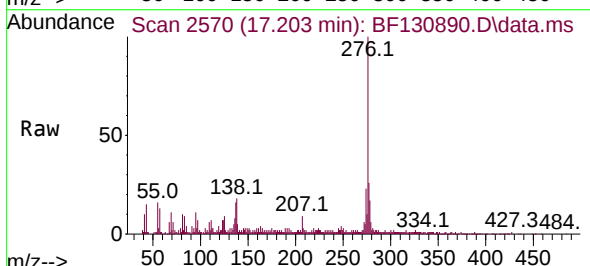
11/01/2022  
Supervised By :Jagrut  
Upadhyay



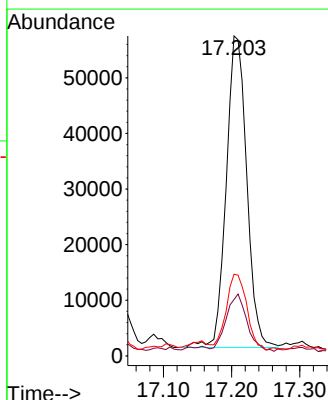
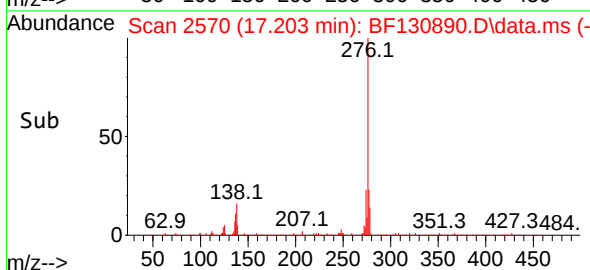
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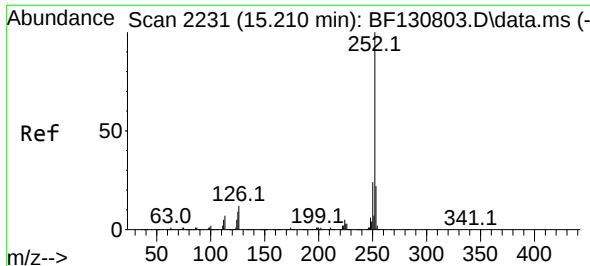


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 16.750 ng  
RT: 17.203 min Scan# 2570  
Delta R.T. 0.012 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58



Tgt Ion:276 Resp: 117281  
Ion Ratio Lower Upper  
276 100  
138 18.7 19.1 28.7#  
277 23.2 20.1 30.1





#88  
Benzo(b)fluoranthene  
Concen: 46.577 ng m  
RT: 15.204 min Scan# 2231  
Delta R.T. 0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :

BNF

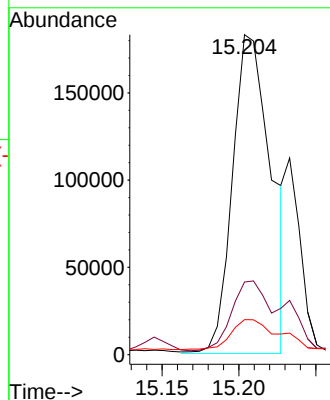
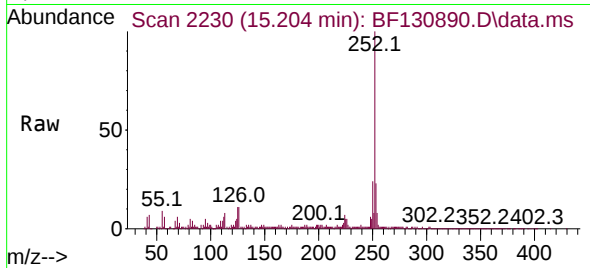
ClientSampleId :

OR-2-102822

Tgt Ion:252 Resp: 31746  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.5 26.3  
125 10.9 7.0 10.4

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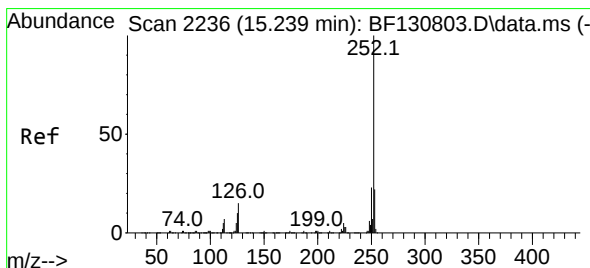
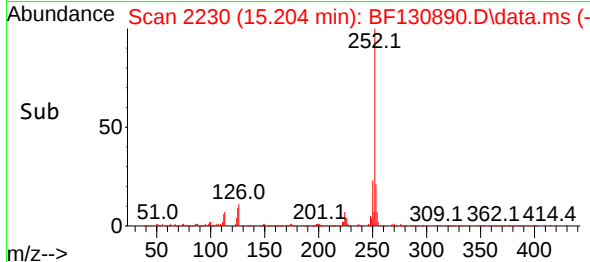
Reviewed By :Christian Giraldo 11/01/2022  
Supervised By :Jagrut Upadhyay 11/01/2022



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Supervised By :Jagrut  
Upadhyay

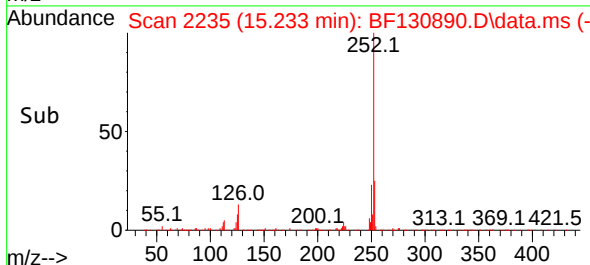
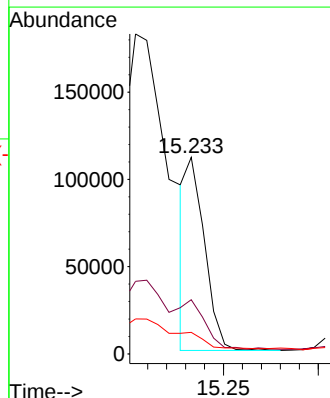
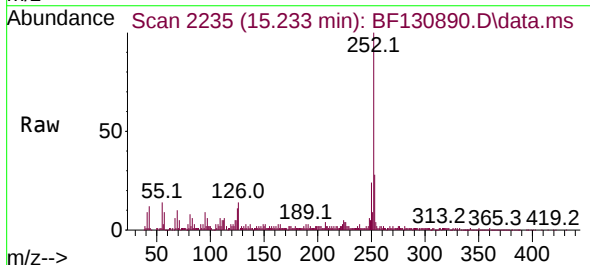
11/01/2022  
Supervised By :Jagrut  
Upadhyay

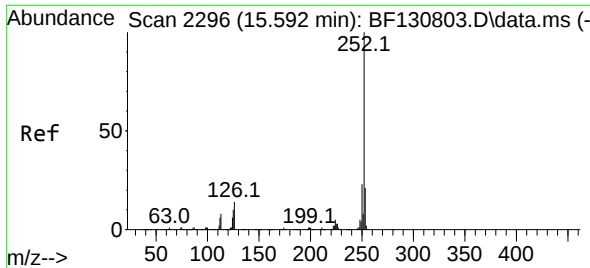
11/01/2022



#89  
Benzo(k)fluoranthene  
Concen: 11.217 ng m  
RT: 15.233 min Scan# 2235  
Delta R.T. 0.006 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Tgt Ion:252 Resp: 74500  
Ion Ratio Lower Upper  
252 100  
253 27.6 17.5 26.3#  
125 10.9 8.0 12.0





#90  
Benzo(a)pyrene  
Concen: 38.127 ng  
RT: 15.592 min Scan# 2296  
Delta R.T. 0.012 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :

BNA\_F

ClientSampleId :

OR-2-102822

Tgt Ion:252 Resp: 208901  
Ion Ratio Lower Upper  
252 100  
253 23.8 16.8 25.2  
125 11.8 8.3 12.5

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

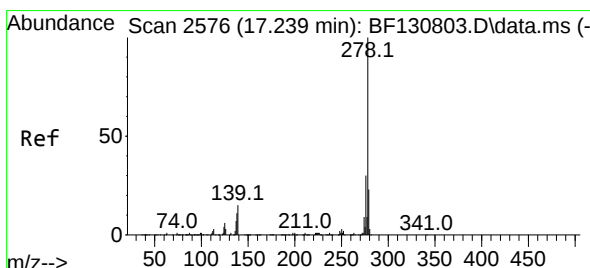
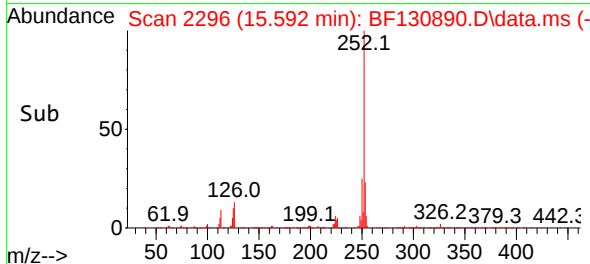
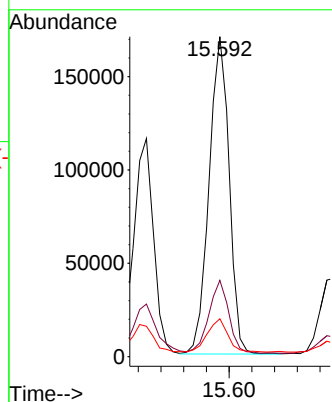
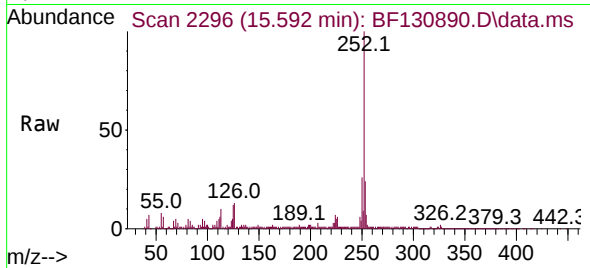
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11/01/2022

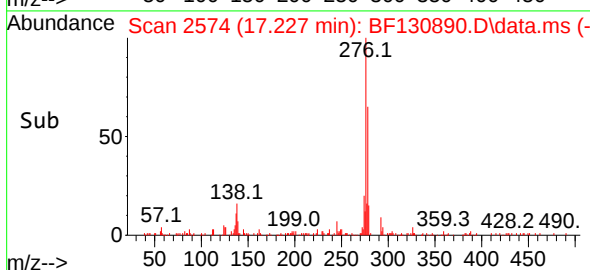
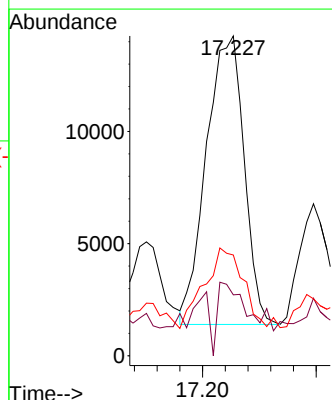
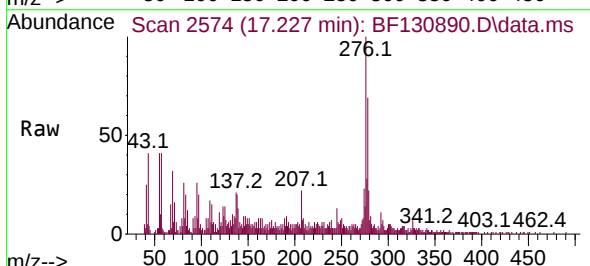
Supervised By :Jagrut  
Upadhyay

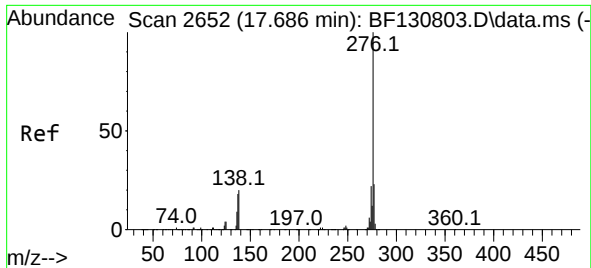
11/01/2022



#91  
Dibenzo(a,h)anthracene  
Concen: 5.190 ng  
RT: 17.227 min Scan# 2574  
Delta R.T. 0.012 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Tgt Ion:278 Resp: 29624  
Ion Ratio Lower Upper  
278 100  
139 19.1 11.9 17.9#  
279 31.5 18.6 28.0#





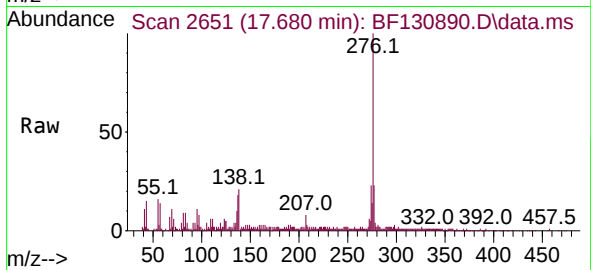
#92  
Benzo(g,h,i)perylene  
Concen: 19.775 ng  
RT: 17.680 min Scan# 20  
Delta R.T. 0.012 min  
Lab File: BF130890.D  
Acq: 31 Oct 2022 20:58

Instrument :

BNA\_F

ClientSampleId :

OR-2-102822



Tgt Ion:276 Resp: 115159  
Ion Ratio Lower Upper  
276 100  
277 23.0 18.8 28.2  
138 20.9 16.3 24.5

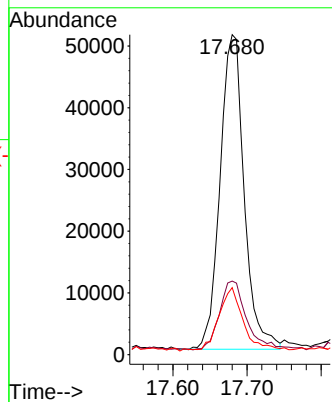
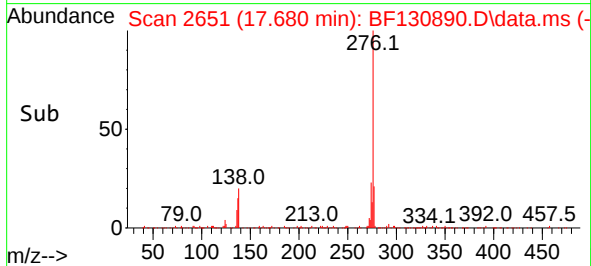
Manual Integrations

APPROVED

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

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11/01/2022