

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
 Data File : BF122892.D  
 Acq On : 30 Dec 2020 22:11  
 Operator : JU/CG  
 Sample : L5242-13DL 10X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-7(434+26)DL

Manual Integrations  
 APPROVED

mohammad  
 12/31/2020 10:46:17 AM

Quant Time: Dec 31 01:00:07 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 15 18:14:23 2020  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.822  | 152  | 110669   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.104  | 136  | 403923   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.863  | 164  | 196147   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.351 | 188  | 342030   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.998 | 240  | 356609   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12            | 15.463 | 264  | 378961   | 20.00 | ng    | 0.02     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.446  | 112  | 37999    | 5.44  | ng    | 0.01     |
| 7) Phenol-d6                | 6.469  | 99   | 40606    | 4.38  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.387  | 82   | 23507    | 2.92  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.657 | 330  | 12557    | 4.89  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.181  | 172  | 55634    | 3.84  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.933 | 244  | 74726    | 3.67  | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 71) Phenanthrene            | 11.375 | 178  | 225873   | 11.11 | ng    | 98       |
| 72) Anthracene              | 11.428 | 178  | 56736    | 2.81  | ng    | 97       |
| 73) Carbazole               | 11.580 | 167  | 75969    | 4.16  | ng    | 97       |
| 75) Fluoranthene            | 12.569 | 202  | 1314751  | 61.68 | ng    | 100      |
| 78) Pyrene                  | 12.798 | 202  | 1121566  | 40.68 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.986 | 228  | 226421   | 9.50  | ng    | 97       |
| 83) Chrysene                | 14.021 | 228  | 691812   | 29.17 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.921 | 276  | 123240   | 4.95  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.039 | 252  | 694306m  | 26.11 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.063 | 252  | 198687m  | 8.17  | ng    |          |
| 90) Benzo(a)pyrene          | 15.404 | 252  | 161920   | 6.96  | ng    | 96       |
| 92) Benzo(g,h,i)perylene    | 17.362 | 276  | 100086   | 5.08  | ng    | 100      |
| -----                       |        |      |          |       |       |          |

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

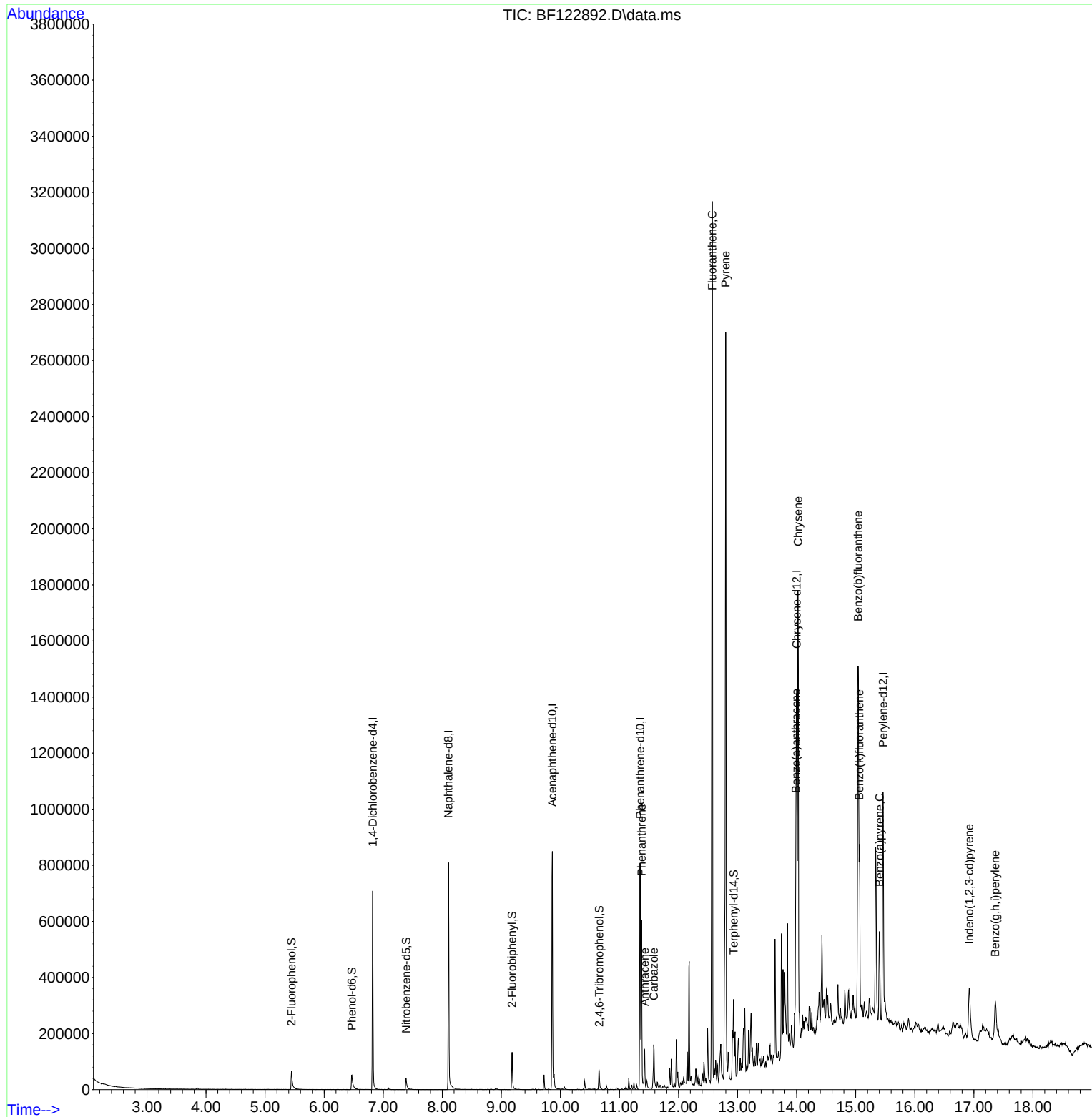
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
Data File : BF122892.D  
Acq On : 30 Dec 2020 22:11  
Operator : JU/CG  
Sample : L5242-13DL 10X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

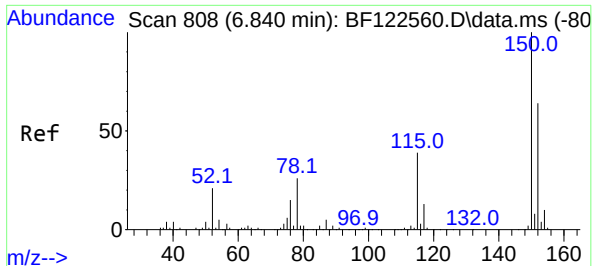
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-7(434+26)DL

Manual Integrations  
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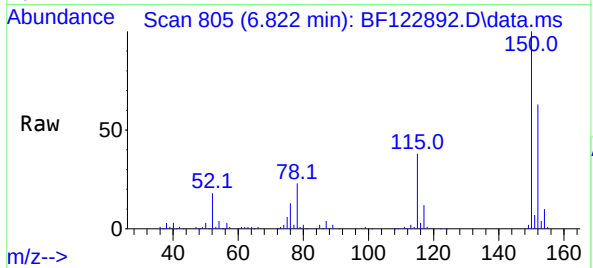
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Quant Time: Dec 31 01:00:07 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 15 18:14:23 2020  
Response via : Initial Calibration

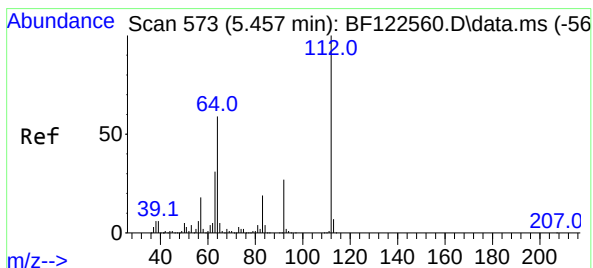
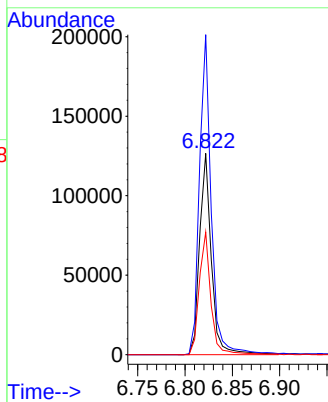
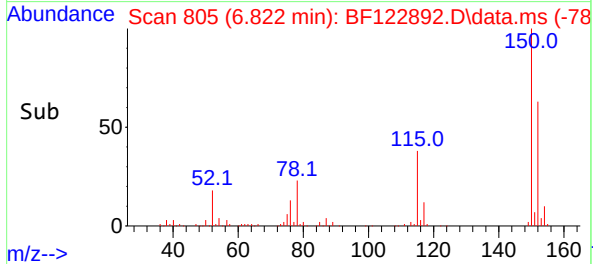




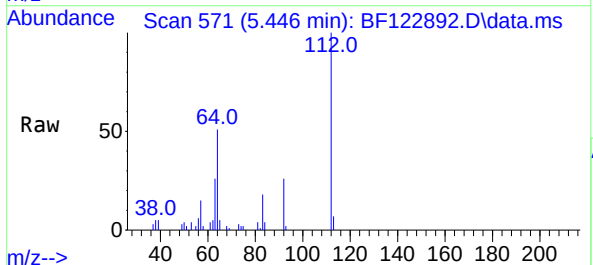
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.822 min Scan# 805  
Delta R.T. -0.000 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



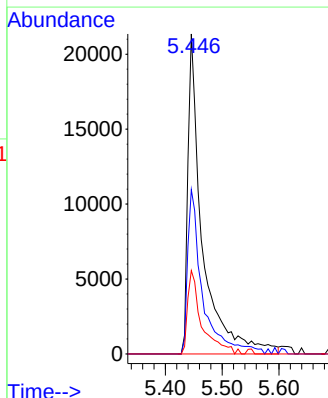
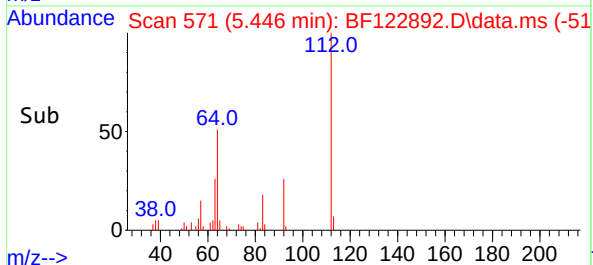
Tgt Ion:152 Resp: 110669  
Ion Ratio Lower Upper  
152 100  
150 158.9 125.8 188.6  
115 60.9 49.3 73.9



#5  
2-Fluorophenol  
Concen: 5.44 ng  
RT: 5.446 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



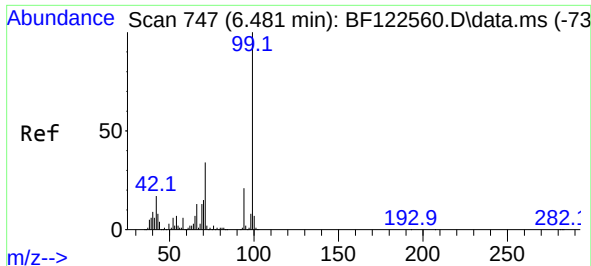
Tgt Ion:112 Resp: 37999  
Ion Ratio Lower Upper  
112 100  
64 51.3 46.9 70.3  
63 26.1 24.5 36.7



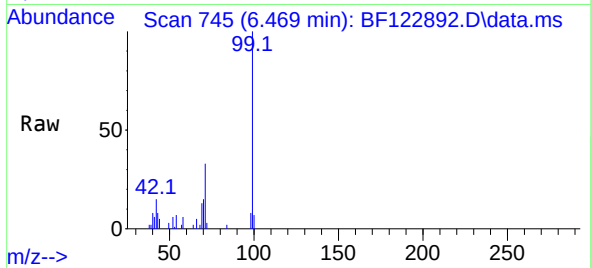
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-7(434+26)DL

Manual Integrations  
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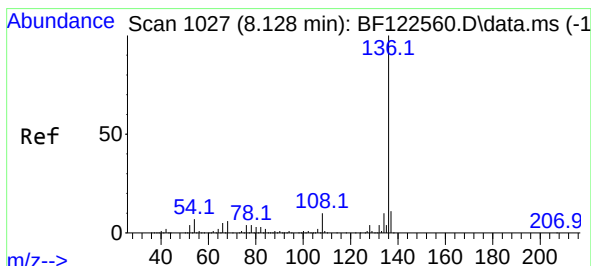
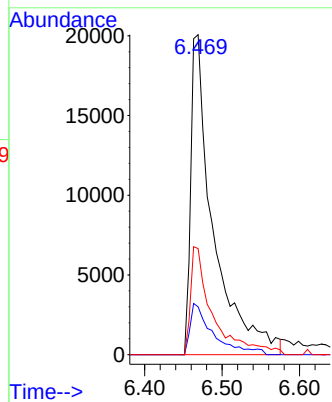
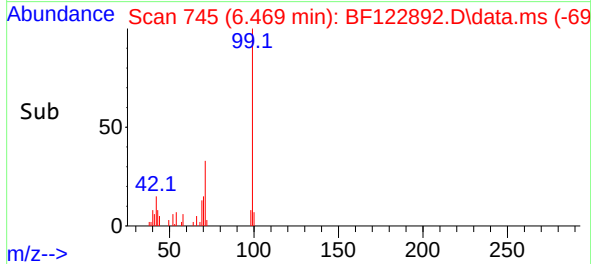
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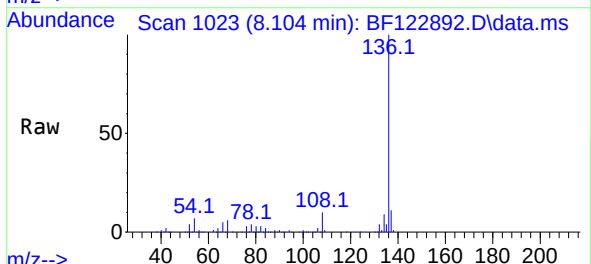
#7  
Phenol-d6  
Concen: 4.38 ng  
RT: 6.469 min Scan# 745  
Delta R.T. 0.012 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



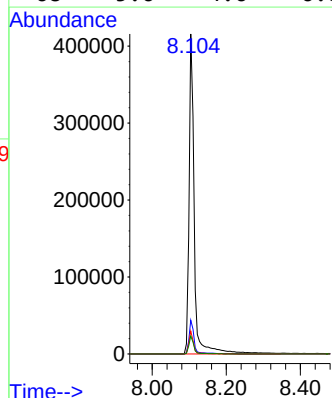
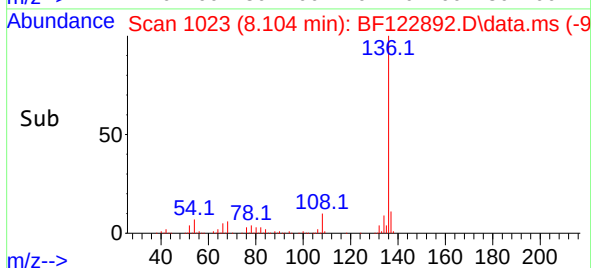
Tgt Ion: 99 Resp: 40606  
Ion Ratio Lower Upper  
99 100  
42 14.9 13.8 20.6  
71 33.2 26.9 40.3



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. -0.006 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



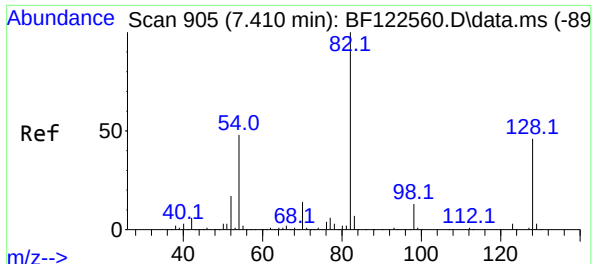
Tgt Ion: 136 Resp: 403923  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.8 13.2  
54 7.1 5.5 8.3  
68 5.6 4.6 6.8



Instrument :  
BNA\_F  
ClientSampleId :  
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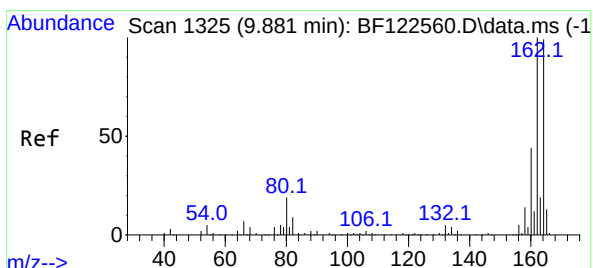
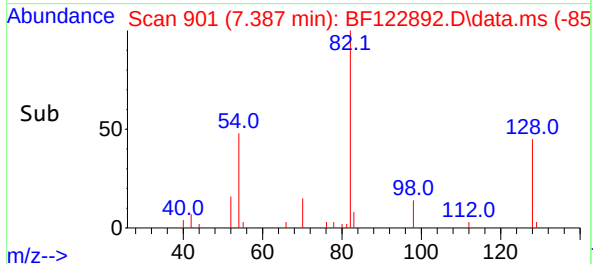
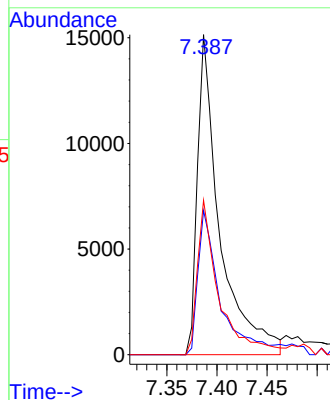
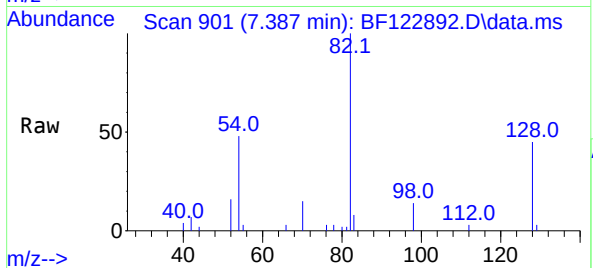
#23  
Nitrobenzene-d5  
Concen: 2.92 ng  
RT: 7.387 min Scan# 901  
Delta R.T. -0.006 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

|             |             |
|-------------|-------------|
| Tgt Ion: 82 | Resp: 23507 |
| Ion Ratio   | Lower Upper |
| 82 100      |             |
| 128 45.1    | 37.0 55.4   |
| 54 48.3     | 38.4 57.6   |

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-7(434+26)DL

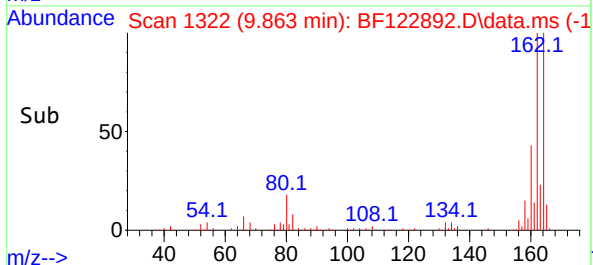
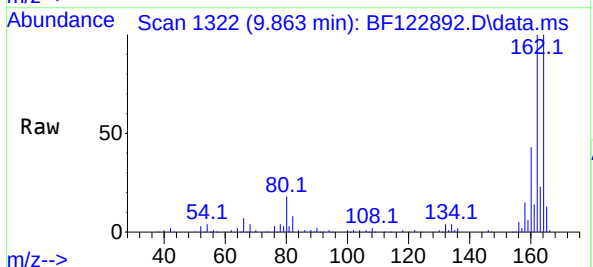
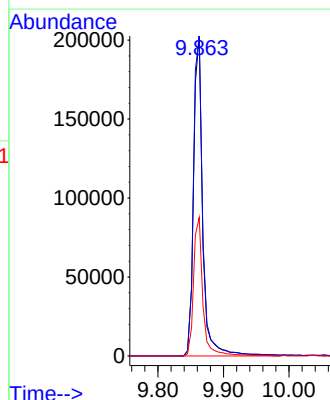
Manual Integrations  
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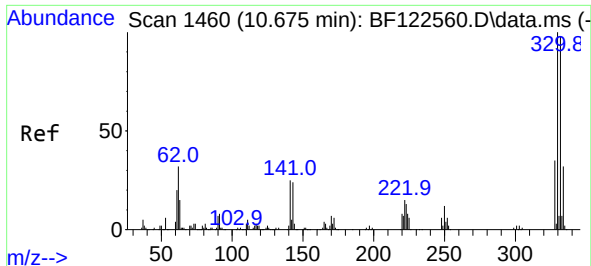
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#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.863 min Scan# 1322  
Delta R.T. -0.000 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

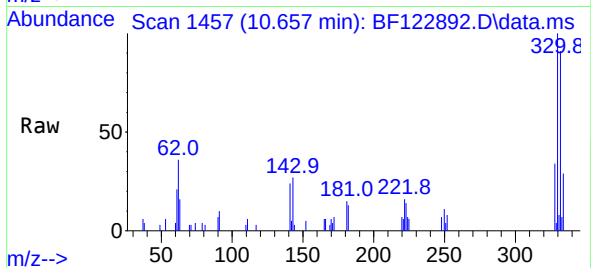
|              |              |
|--------------|--------------|
| Tgt Ion: 164 | Resp: 196147 |
| Ion Ratio    | Lower Upper  |
| 164 100      |              |
| 162 100.0    | 80.8 121.2   |
| 160 43.2     | 35.4 53.0    |





#42  
2,4,6-Tribromophenol  
Concen: 4.89 ng  
RT: 10.657 min Scan# 1457  
Delta R.T. 0.006 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

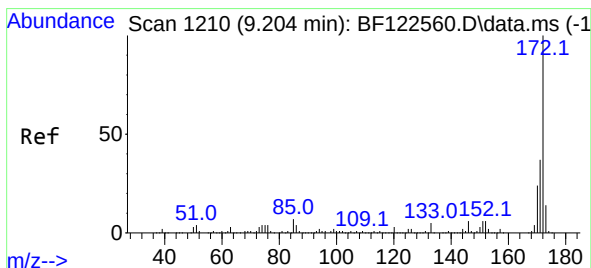
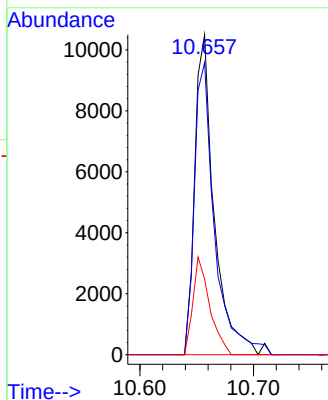
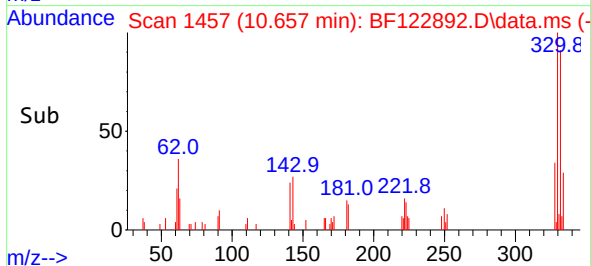
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-7(434+26)DL



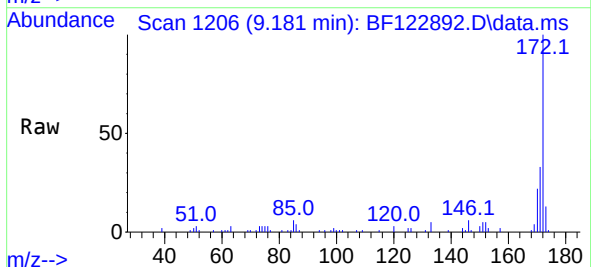
Tgt Ion: 330 Resp: 12557  
Ion Ratio Lower Upper  
330 100  
332 94.3 77.5 116.3  
141 26.2 23.8 35.8

Manual Integrations  
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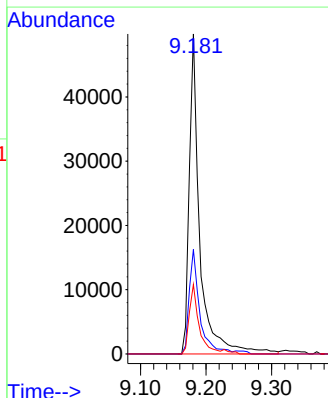
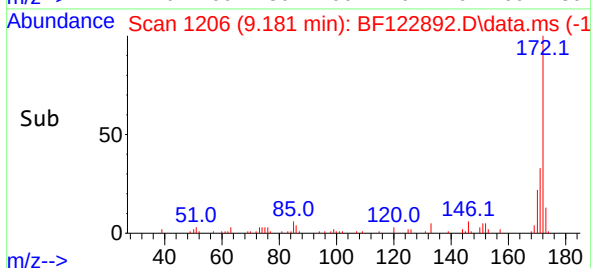
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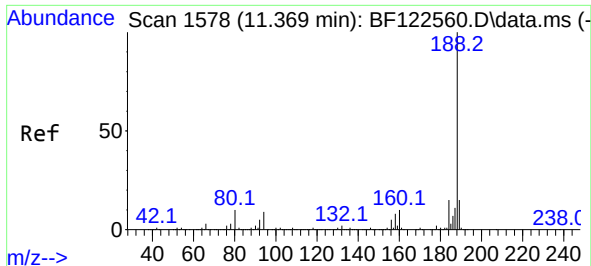


#45  
2-Fluorobiphenyl  
Concen: 3.84 ng  
RT: 9.181 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



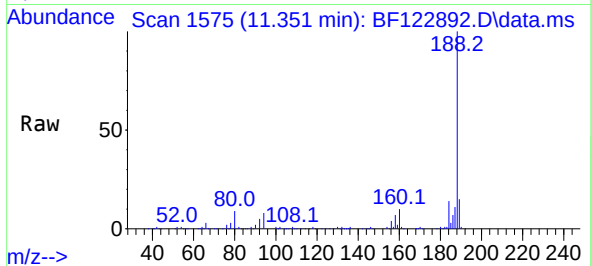
Tgt Ion: 172 Resp: 55634  
Ion Ratio Lower Upper  
172 100  
171 32.6 29.6 44.4  
170 21.7 19.5 29.3





#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.351 min Scan# 1575  
Delta R.T. 0.006 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

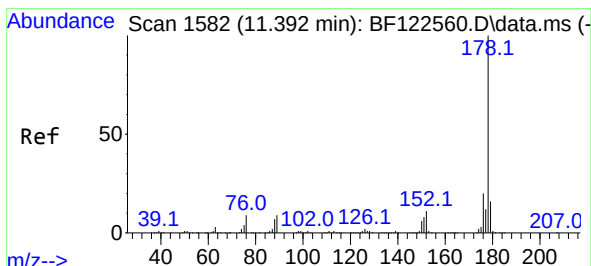
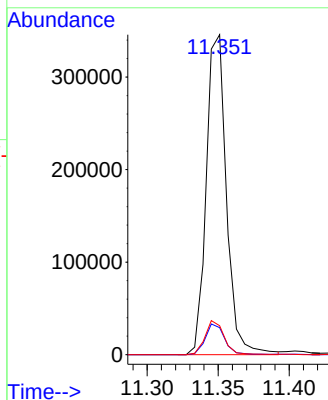
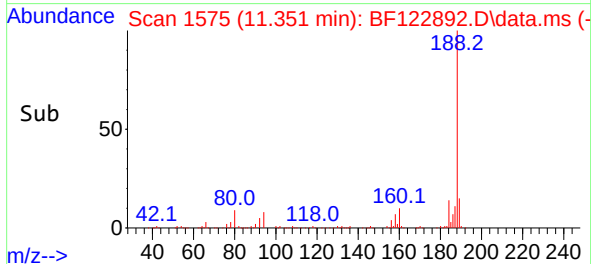
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-7(434+26)DL



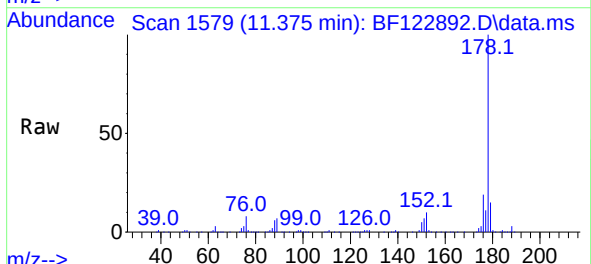
Tgt Ion:188 Resp: 342030  
Ion Ratio Lower Upper  
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94 8.5 7.4 11.2  
80 9.1 8.2 12.4

Manual Integrations  
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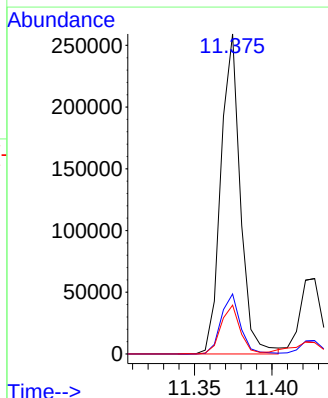
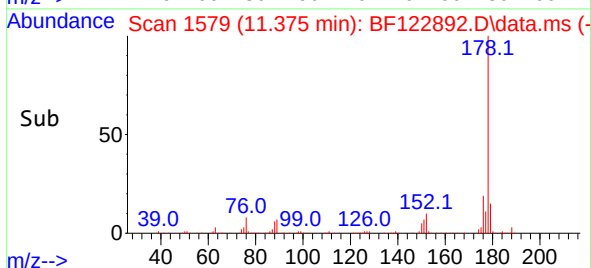
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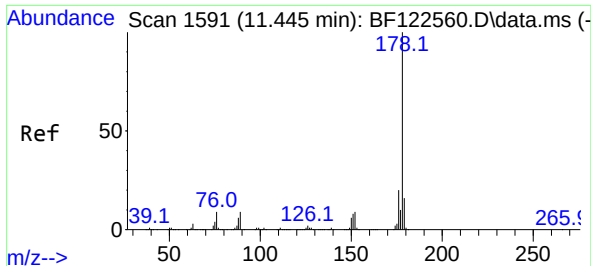


#71  
Phenanthrene  
Concen: 11.11 ng  
RT: 11.375 min Scan# 1579  
Delta R.T. 0.006 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



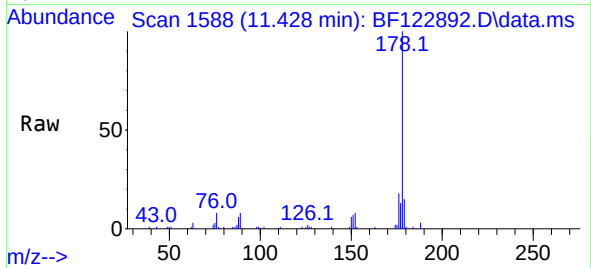
Tgt Ion:178 Resp: 225873  
Ion Ratio Lower Upper  
178 100  
176 18.8 16.2 24.2  
179 15.2 12.7 19.1





#72  
 Anthracene  
 Concen: 2.81 ng  
 RT: 11.428 min Scan# 1588  
 Delta R.T. 0.006 min  
 Lab File: BF122892.D  
 Acq: 30 Dec 2020 22:11

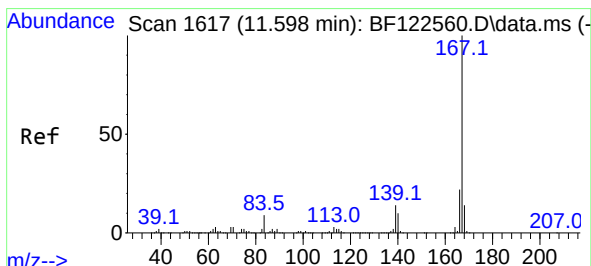
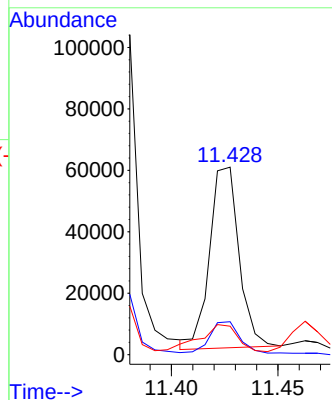
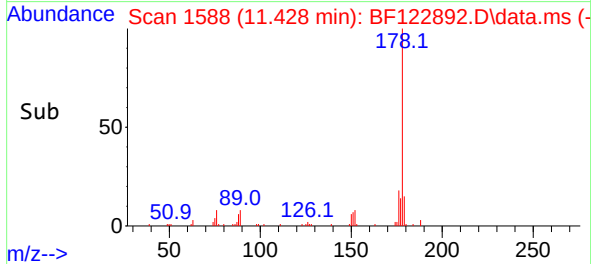
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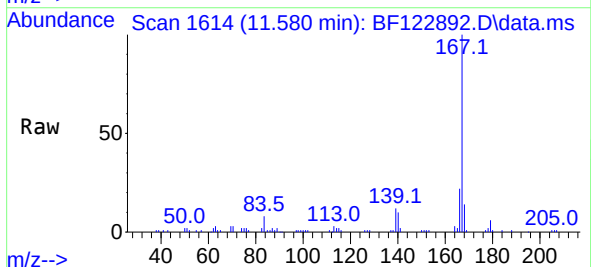
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 Ion Ratio Lower Upper  
 178 100  
 176 17.6 15.6 23.4  
 179 15.2 12.8 19.2

Manual Integrations  
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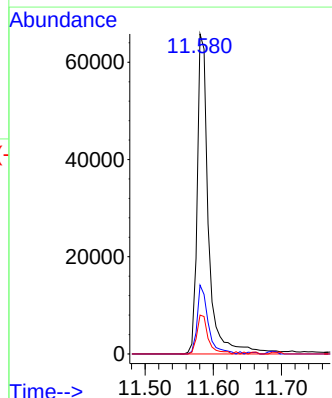
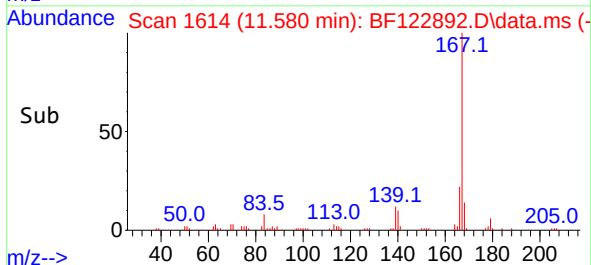
mohammad  
 12/31/2020 10:46:17 AM



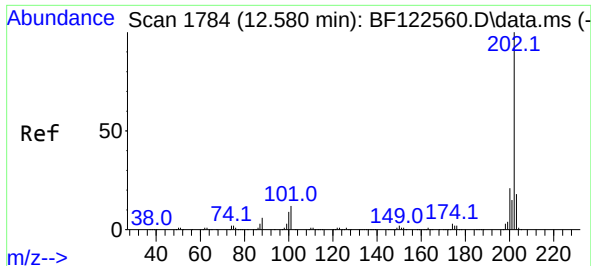
#73  
 Carbazole  
 Concen: 4.16 ng  
 RT: 11.580 min Scan# 1614  
 Delta R.T. 0.006 min  
 Lab File: BF122892.D  
 Acq: 30 Dec 2020 22:11



Tgt Ion:167 Resp: 75969  
 Ion Ratio Lower Upper  
 167 100  
 166 21.5 18.0 27.0  
 139 12.2 10.9 16.3

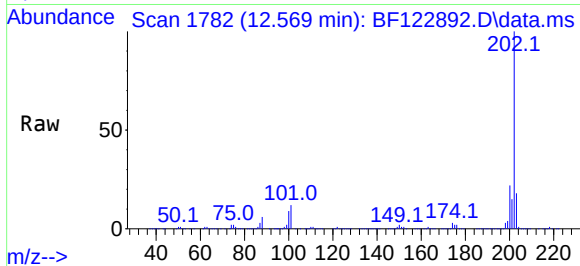






#75  
Fluoranthene  
Concen: 61.68 ng  
RT: 12.569 min Scan# 1782  
Delta R.T. 0.012 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

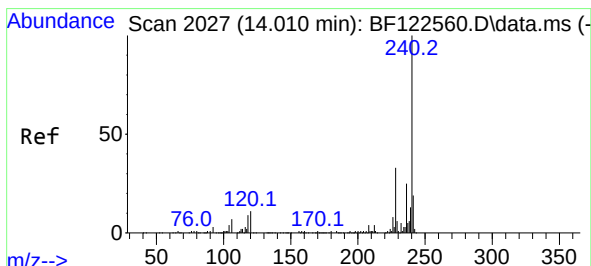
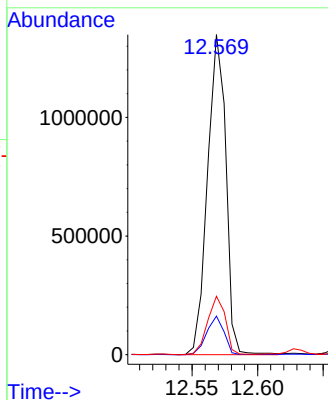
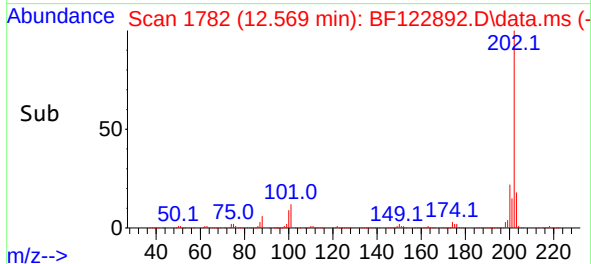
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-7(434+26)DL



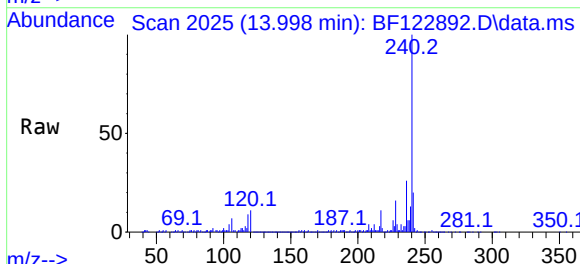
Tgt Ion:202 Resp: 1314751  
Ion Ratio Lower Upper  
202 100  
101 12.1 0.0 32.2  
203 18.2 0.0 38.1

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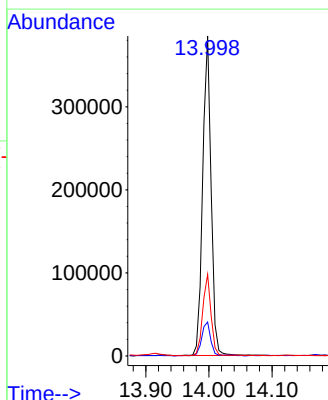
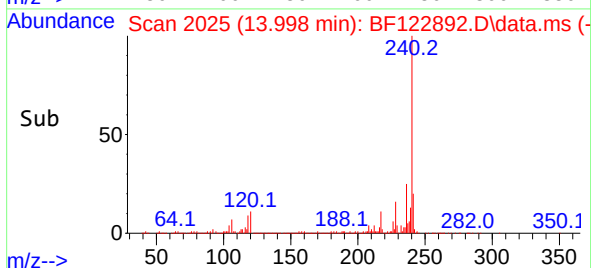
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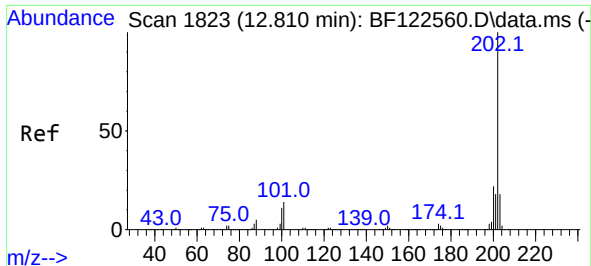


#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. 0.012 min  
Lab File: BF122892.D  
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Tgt Ion:240 Resp: 356609  
Ion Ratio Lower Upper  
240 100  
120 10.6 8.6 12.8  
236 25.5 20.3 30.5





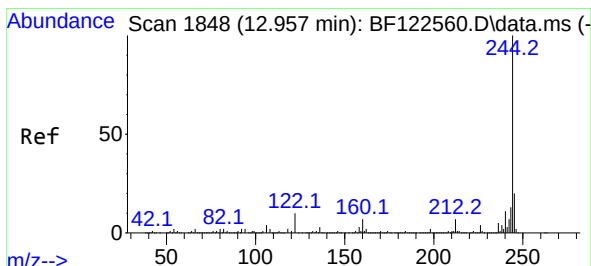
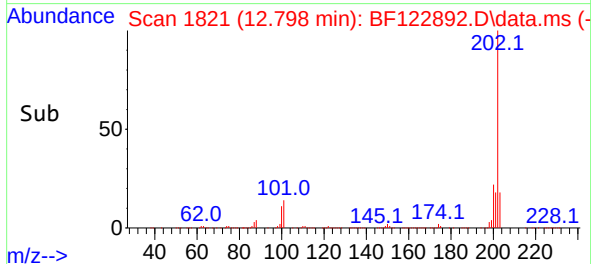
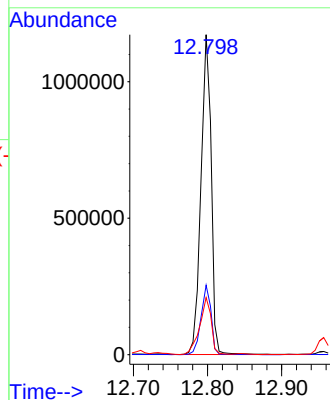
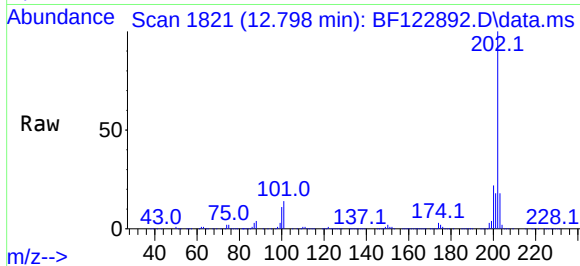
#78  
Pyrene  
Concen: 40.68 ng  
RT: 12.798 min Scan# 1821  
Delta R.T. 0.012 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

Tgt Ion:202 Resp: 1121566  
Ion Ratio Lower Upper  
202 100  
200 21.7 17.6 26.4  
203 17.9 14.6 21.8

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-7(434+26)DL

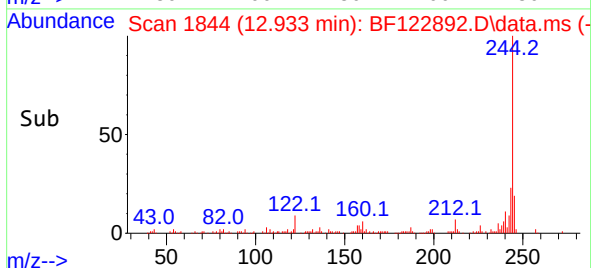
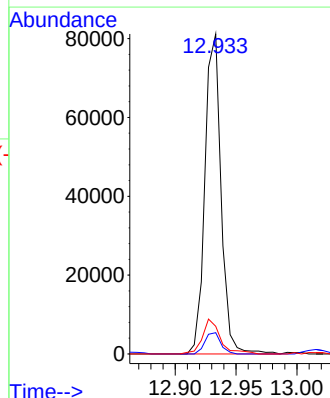
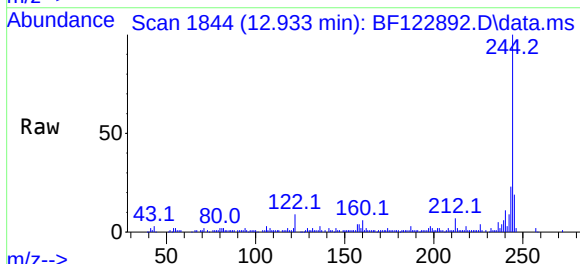
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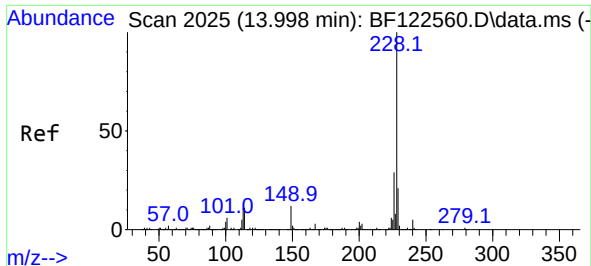
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#79  
Terphenyl-d14  
Concen: 3.67 ng  
RT: 12.933 min Scan# 1844  
Delta R.T. -0.000 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

Tgt Ion:244 Resp: 74726  
Ion Ratio Lower Upper  
244 100  
212 6.6 5.7 8.5  
122 8.7 8.3 12.5





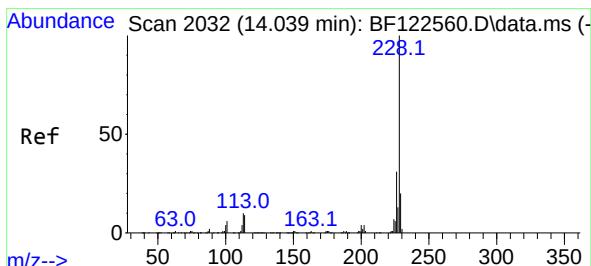
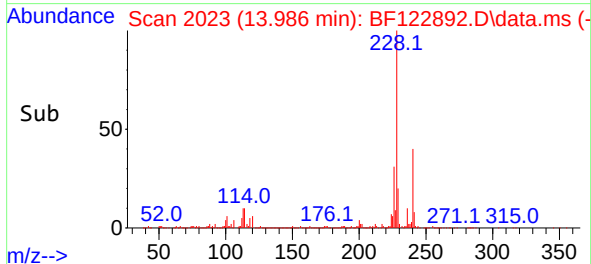
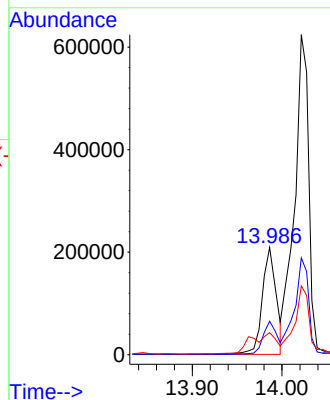
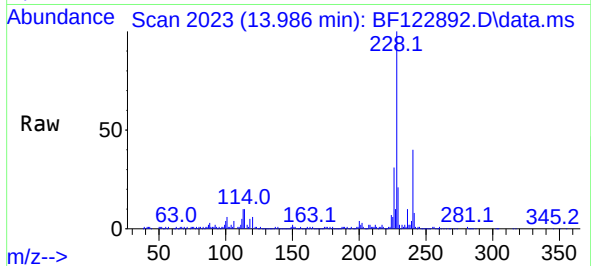
#81  
Benzo(a)anthracene  
Concen: 9.50 ng  
RT: 13.986 min Scan# 2023  
Delta R.T. 0.012 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

Tgt Ion:228 Resp: 226421  
Ion Ratio Lower Upper  
228 100  
226 31.2 23.0 34.4  
229 20.6 16.6 24.8

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-7(434+26)DL

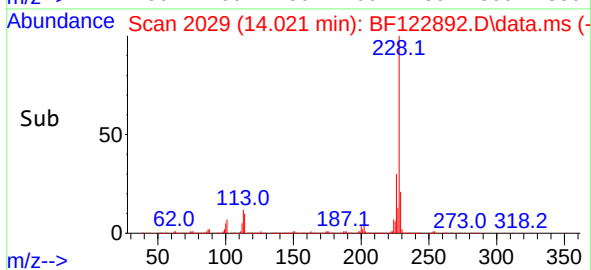
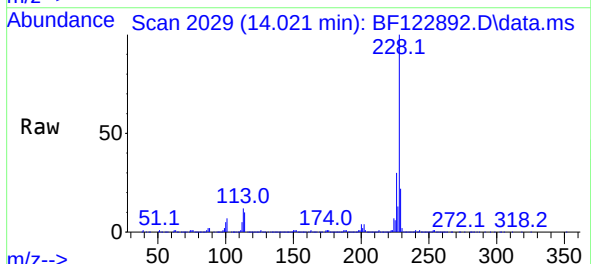
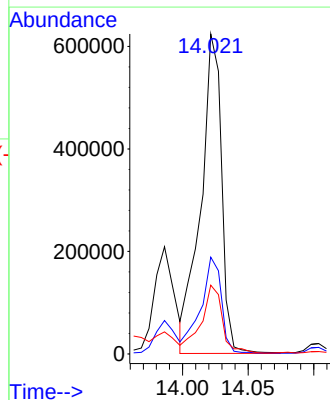
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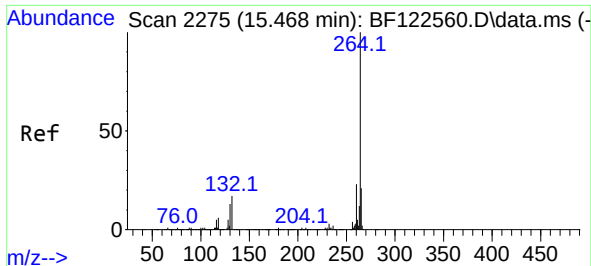
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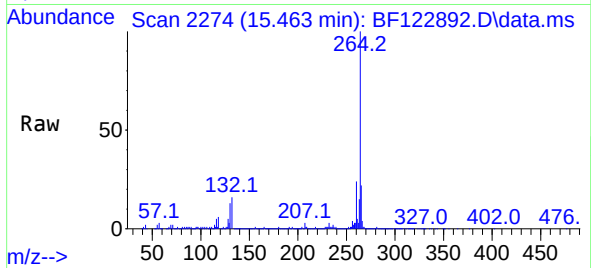
#83  
Chrysene  
Concen: 29.17 ng  
RT: 14.021 min Scan# 2029  
Delta R.T. 0.006 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

Tgt Ion:228 Resp: 691812  
Ion Ratio Lower Upper  
228 100  
226 30.2 24.6 36.8  
229 21.5 15.8 23.6

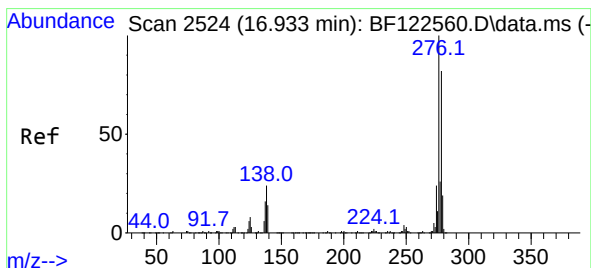
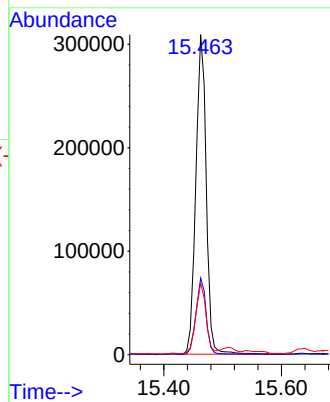
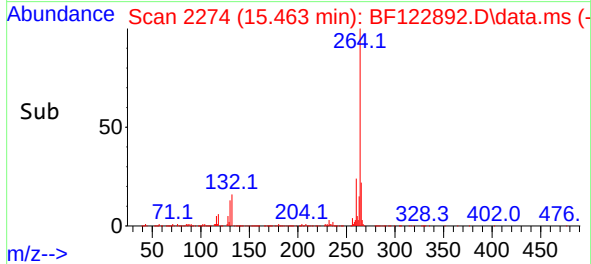




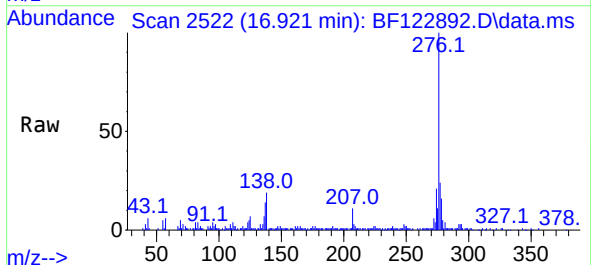
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.463 min Scan# 2274  
Delta R.T. 0.023 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



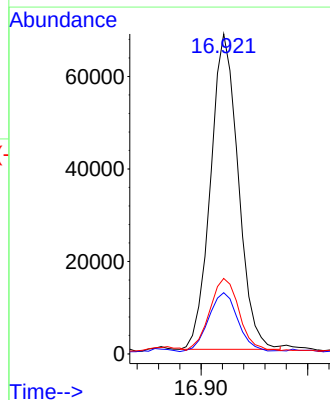
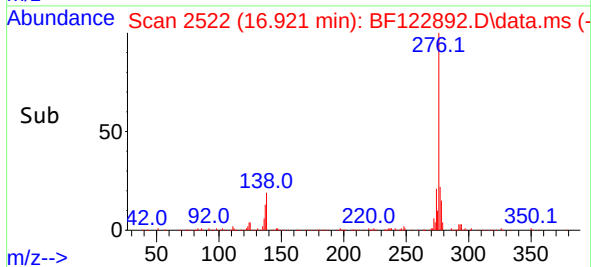
Tgt Ion:264 Resp: 378961  
Ion Ratio Lower Upper  
264 100  
260 23.9 18.6 28.0  
265 22.3 17.0 25.6



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.95 ng  
RT: 16.921 min Scan# 2522  
Delta R.T. 0.029 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



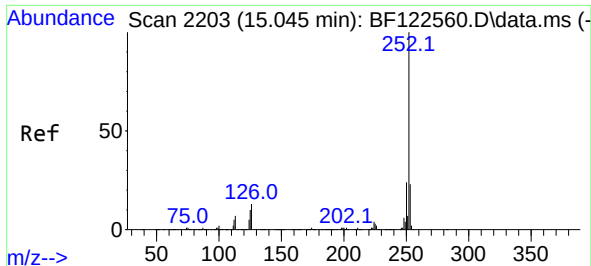
Tgt Ion:276 Resp: 123240  
Ion Ratio Lower Upper  
276 100  
138 19.8 18.7 28.1  
277 24.8 20.2 30.4



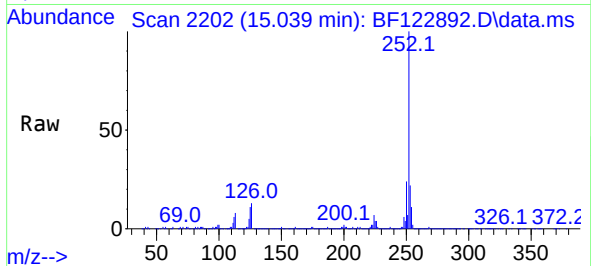
Instrument :  
BNA\_F  
ClientSampleId :  
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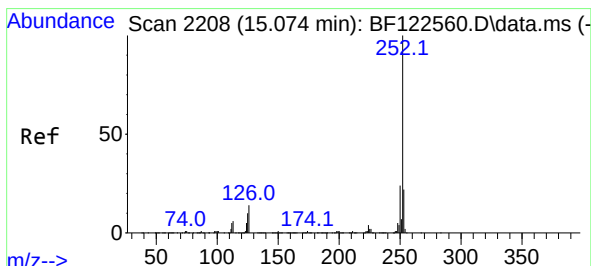
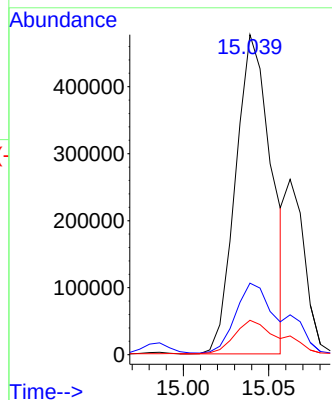
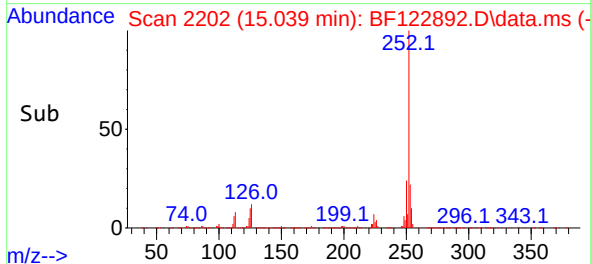
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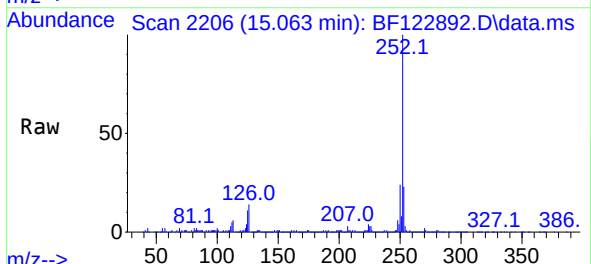
#88  
Benzo(b)fluoranthene  
Concen: 26.11 ng m  
RT: 15.039 min Scan# 2202  
Delta R.T. 0.018 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



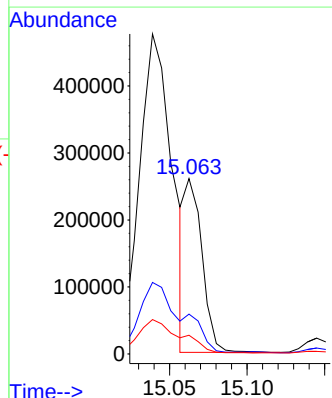
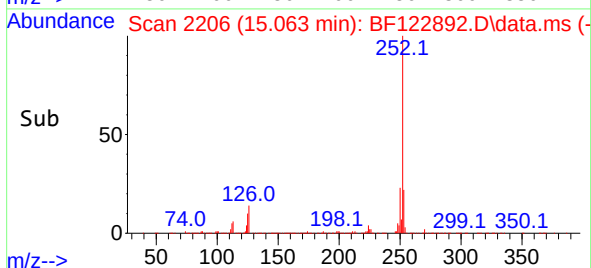
Tgt Ion:252 Resp: 694306  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.3 27.5  
125 10.8 8.1 12.1



#89  
Benzo(k)fluoranthene  
Concen: 8.17 ng m  
RT: 15.063 min Scan# 2206  
Delta R.T. 0.012 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11



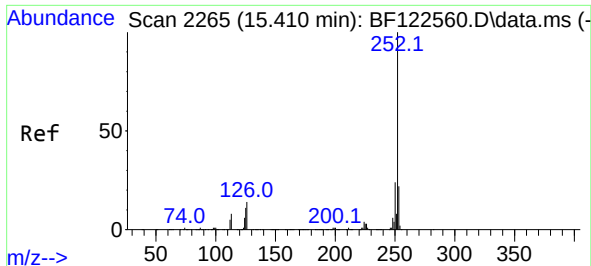
Tgt Ion:252 Resp: 198687  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.8 26.8  
125 10.7 8.4 12.6



Instrument :  
BNA\_F  
ClientSampleId :  
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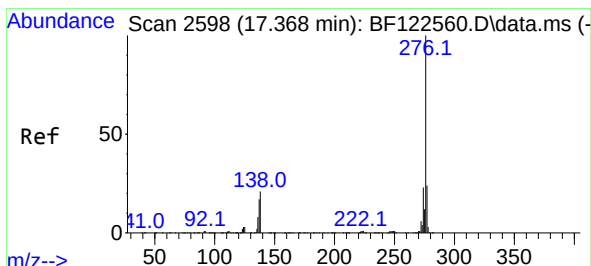
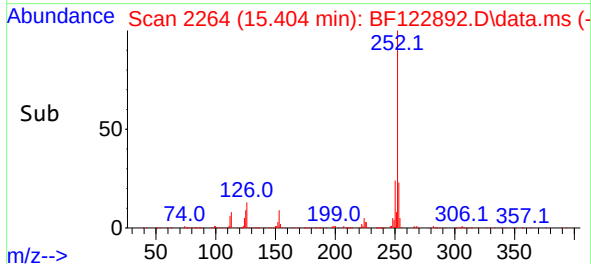
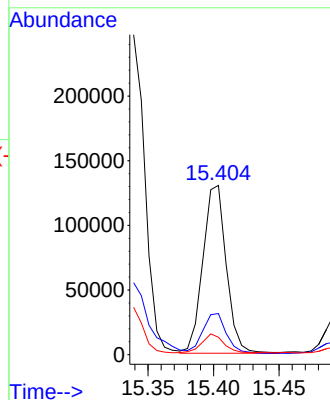
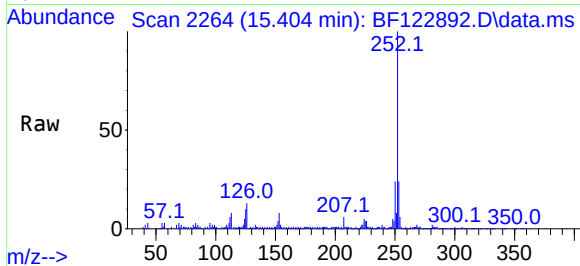
#90  
Benzo(a)pyrene  
Concen: 6.96 ng  
RT: 15.404 min Scan# 2264  
Delta R.T. 0.023 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

Tgt Ion:252 Resp: 161920  
Ion Ratio Lower Upper  
252 100  
253 24.3 17.5 26.3  
125 10.3 8.6 12.8

Instrument :  
BNA\_F  
ClientSampleId :  
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#92  
Benzo(g,h,i)perylene  
Concen: 5.08 ng  
RT: 17.362 min Scan# 2597  
Delta R.T. 0.035 min  
Lab File: BF122892.D  
Acq: 30 Dec 2020 22:11

Tgt Ion:276 Resp: 100086  
Ion Ratio Lower Upper  
276 100  
277 24.3 19.3 28.9  
138 21.0 16.6 24.8

