

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
 Data File : BF122889.D  
 Acq On : 30 Dec 2020 20:37  
 Operator : JU/CG  
 Sample : L5242-05DL 10X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-3(474+26)DL

Manual Integrations  
 APPROVED

mohammad  
 12/31/2020 10:45:36 AM

Quant Time: Dec 31 00:58:06 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  | 109402   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.104  | 136  | 386560   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.857  | 164  | 193381   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.345 | 188  | 331135   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.992 | 240  | 321376   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.457 | 264  | 361925   | 20.00 | ng    | 0.02     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.440  | 112  | 50548    | 7.31  | ng    | 0.00     |
| 7) Phenol-d6                | 6.463  | 99   | 60679    | 6.62  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.381  | 82   | 36726    | 4.76  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.651 | 330  | 18086    | 7.14  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.181  | 172  | 79056    | 5.53  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.927 | 244  | 94340    | 5.14  | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 49) Acenaphthylene          | 9.722  | 152  | 54171    | 2.76  | ng    | 98       |
| 71) Phenanthrene            | 11.369 | 178  | 514682   | 26.15 | ng    | 98       |
| 72) Anthracene              | 11.422 | 178  | 80980    | 4.15  | ng    | 97       |
| 73) Carbazole               | 11.580 | 167  | 79123    | 4.47  | ng    | 96       |
| 75) Fluoranthene            | 12.569 | 202  | 1264874  | 61.29 | ng    | 98       |
| 78) Pyrene                  | 12.798 | 202  | 987760   | 39.75 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.980 | 228  | 205591   | 9.57  | ng    | 98       |
| 83) Chrysene                | 14.021 | 228  | 594625   | 27.82 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.909 | 276  | 99767    | 4.20  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.033 | 252  | 531371m  | 20.93 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.057 | 252  | 142644m  | 6.14  | ng    |          |
| 90) Benzo(a)pyrene          | 15.392 | 252  | 122499   | 5.51  | ng    | 95       |
| 92) Benzo(g,h,i)perylene    | 17.357 | 276  | 81388    | 4.32  | ng    | 98       |
| -----                       |        |      |          |       |       |          |

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

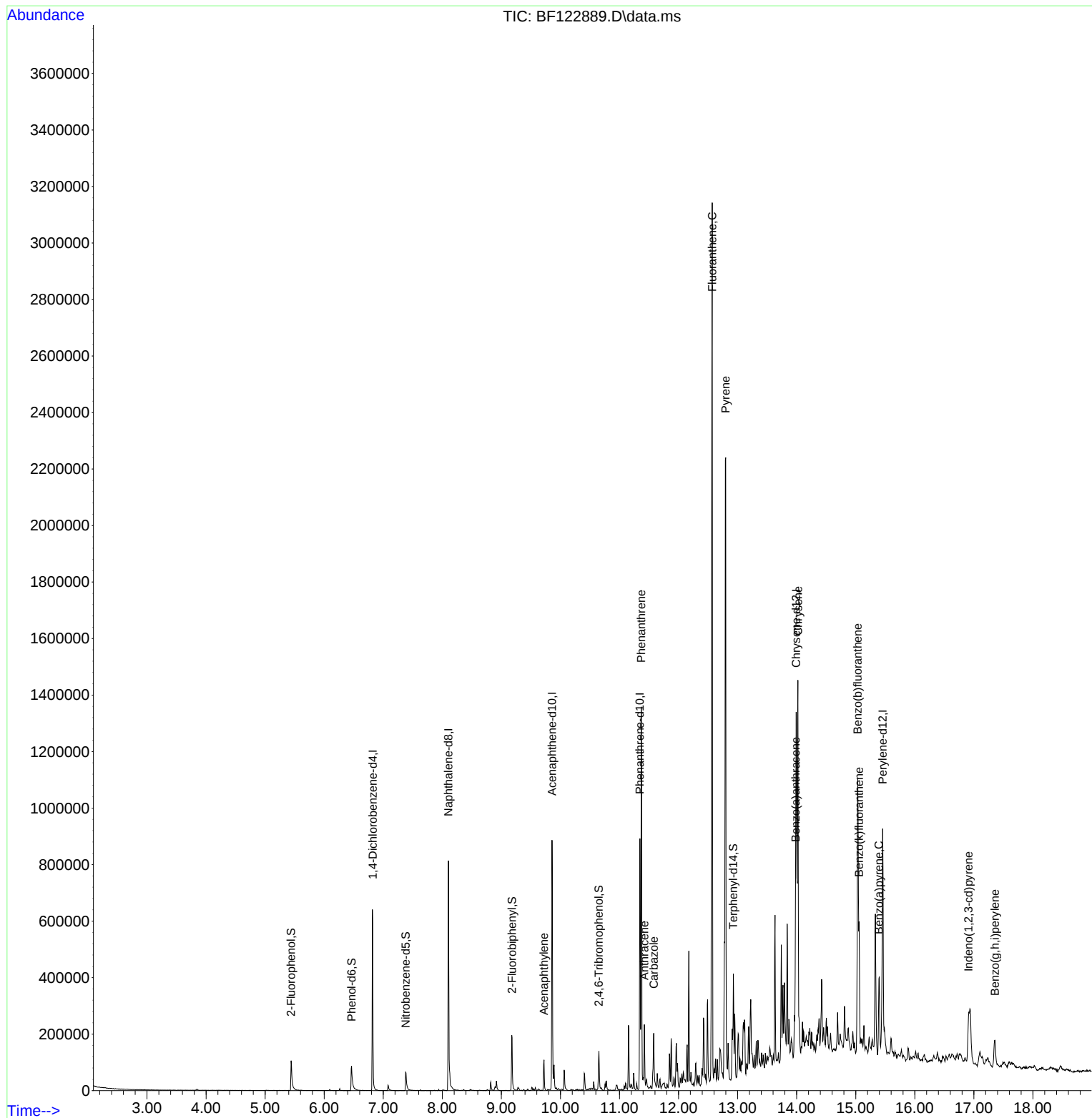
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
Data File : BF122889.D  
Acq On : 30 Dec 2020 20:37  
Operator : JU/CG  
Sample : L5242-05DL 10X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL

Manual Integrations  
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12/31/2020 10:45:36 AM

Quant Time: Dec 31 00:58:06 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





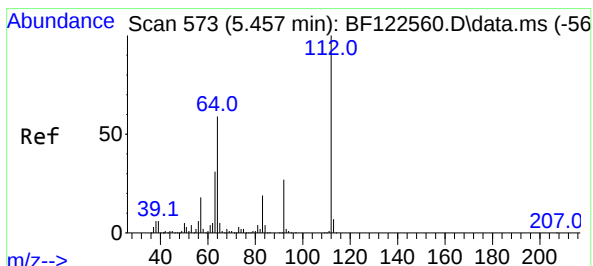
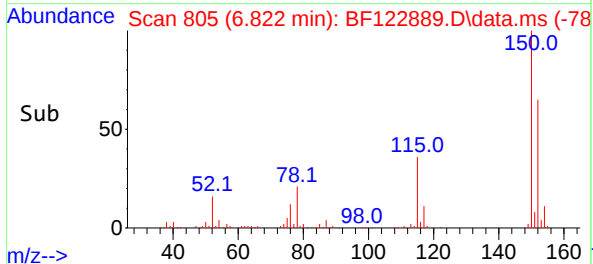
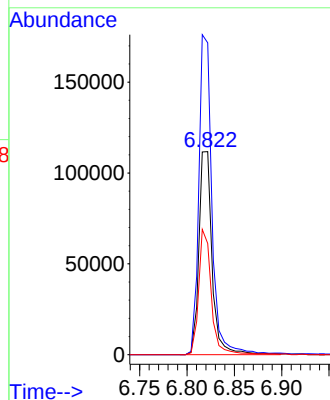
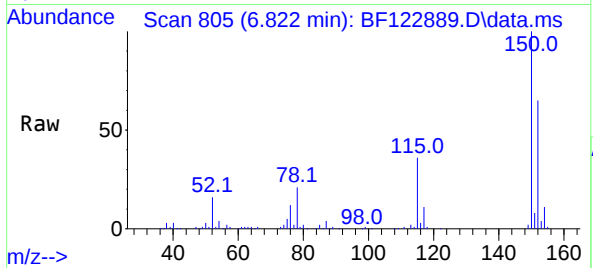
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.822 min Scan# 805  
Delta R.T. -0.000 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Tgt Ion:152 Resp: 109402  
Ion Ratio Lower Upper  
152 100  
150 153.5 125.8 188.6  
115 54.8 49.3 73.9

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL

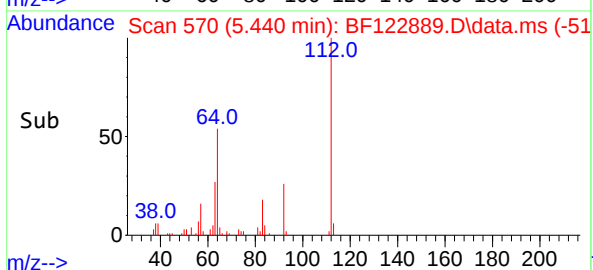
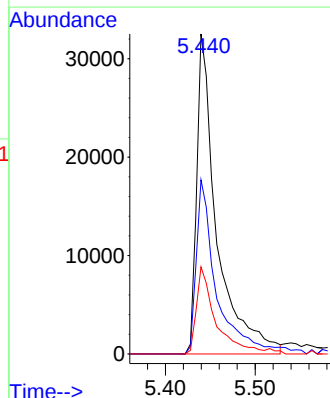
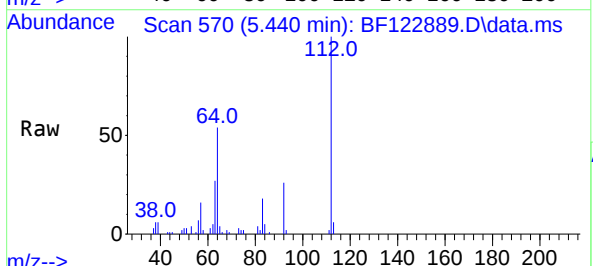
Manual Integrations  
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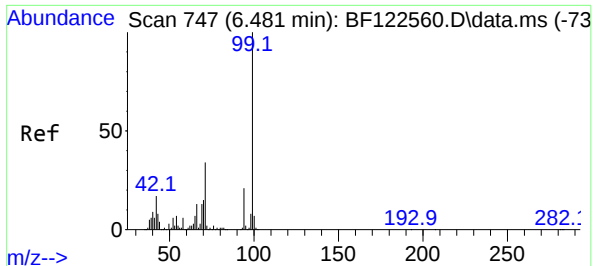
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#5  
2-Fluorophenol  
Concen: 7.31 ng  
RT: 5.440 min Scan# 570  
Delta R.T. 0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

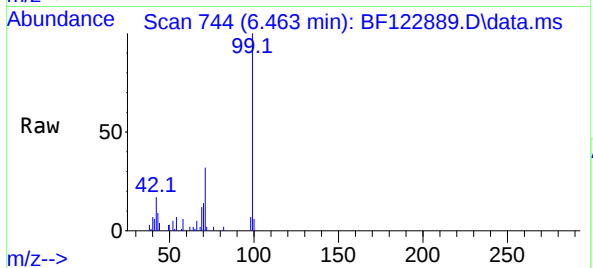
Tgt Ion:112 Resp: 50548  
Ion Ratio Lower Upper  
112 100  
64 54.4 46.9 70.3  
63 27.2 24.5 36.7





#7  
Phenol-d6  
Concen: 6.62 ng  
RT: 6.463 min Scan# 744  
Delta R.T. 0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

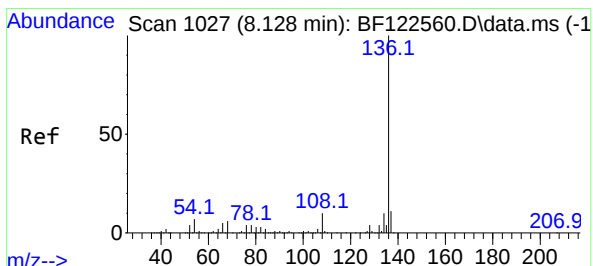
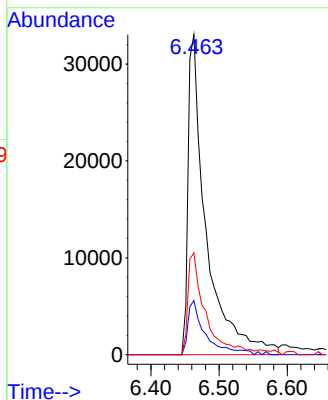
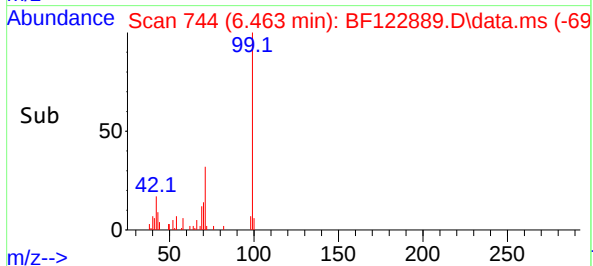
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL



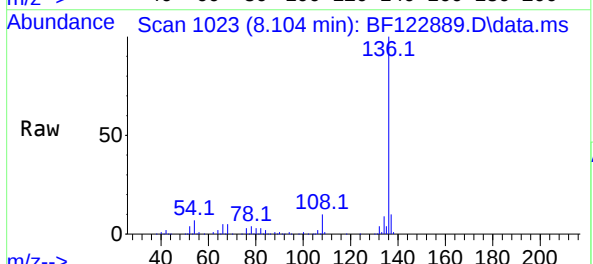
Tgt Ion: 99 Resp: 60679  
Ion Ratio Lower Upper  
99 100  
42 16.9 13.8 20.6  
71 31.8 26.9 40.3

Manual Integrations  
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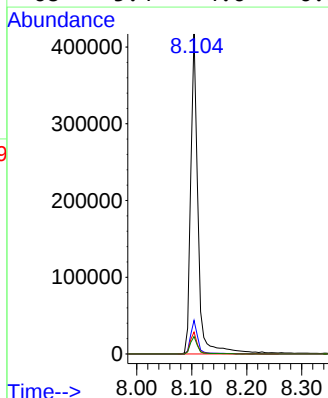
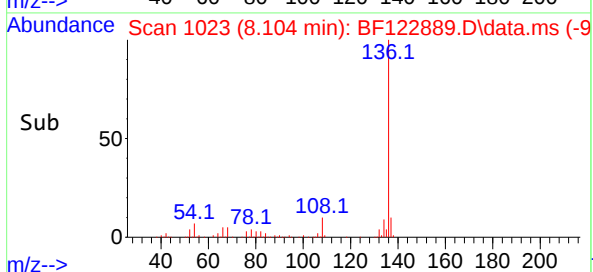
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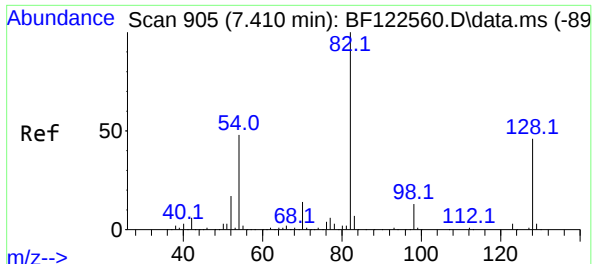


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. -0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37



Tgt Ion: 136 Resp: 386560  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.8 13.2  
54 6.8 5.5 8.3  
68 5.4 4.6 6.8





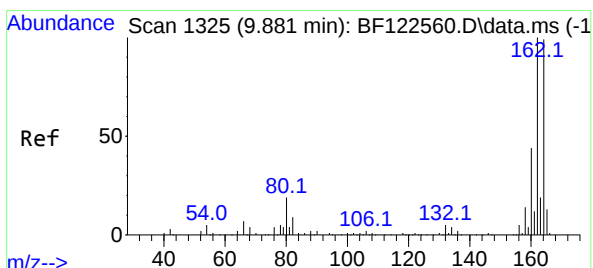
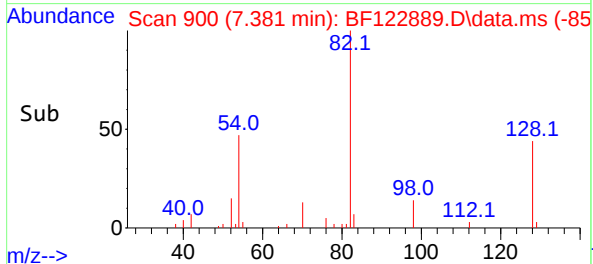
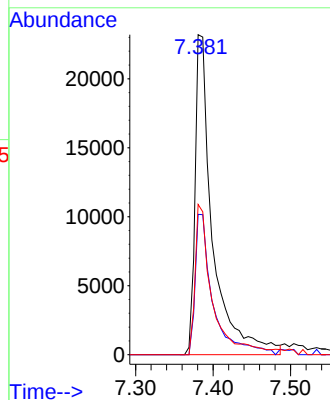
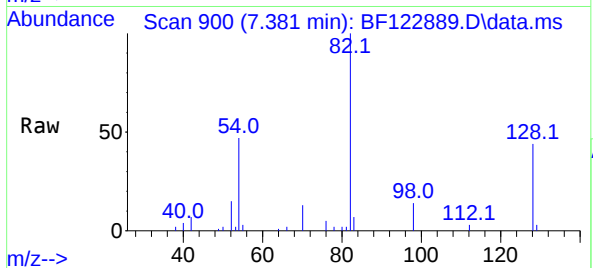
#23  
Nitrobenzene-d5  
Concen: 4.76 ng  
RT: 7.381 min Scan# 900  
Delta R.T. -0.012 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 36726 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.9  | 37.0  | 55.4  |
| 54       | 46.9  | 38.4  | 57.6  |

Instrument :  
BNA\_F  
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SAMPLE-3(474+26)DL

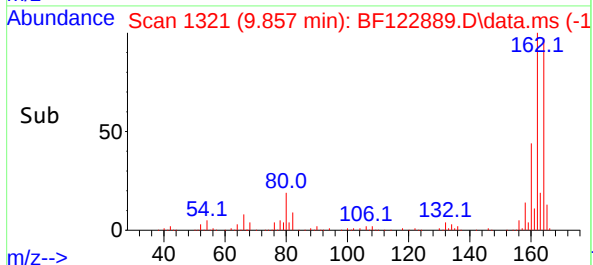
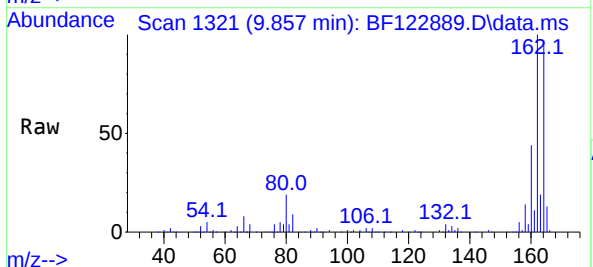
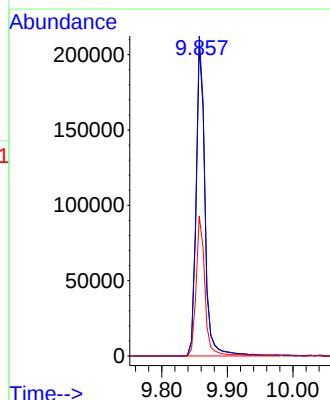
Manual Integrations  
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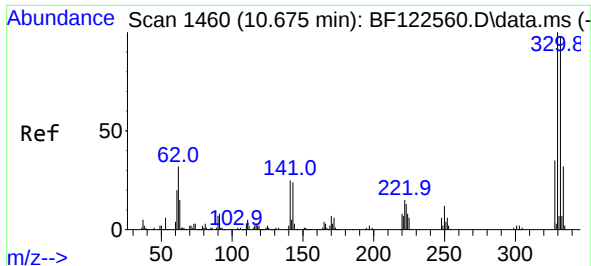
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#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.857 min Scan# 1321  
Delta R.T. -0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

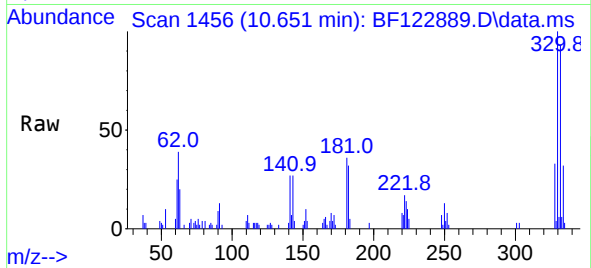
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 193381 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 162      | 103.0 | 80.8  | 121.2  |
| 160      | 45.1  | 35.4  | 53.0   |





#42  
2,4,6-Tribromophenol  
Concen: 7.14 ng  
RT: 10.651 min Scan# 1456  
Delta R.T. -0.000 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

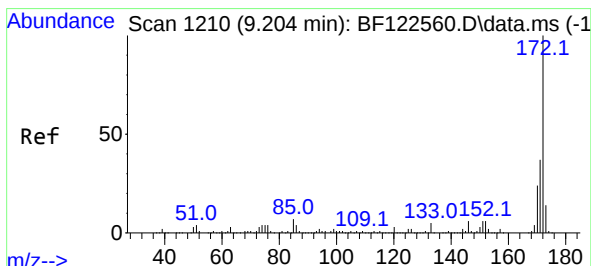
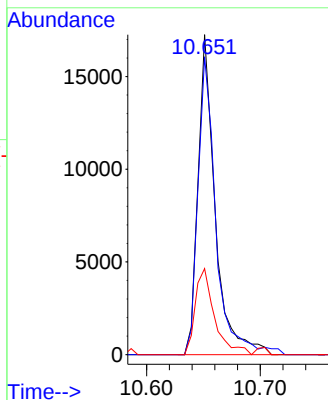
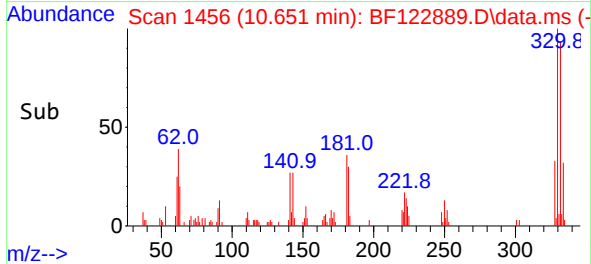
Instrument :  
BNA\_F  
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SAMPLE-3(474+26)DL



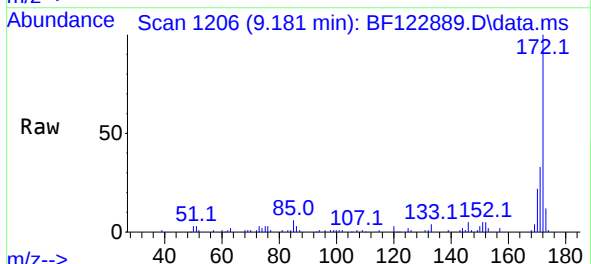
Tgt Ion: 330 Resp: 18086  
Ion Ratio Lower Upper  
330 100  
332 97.7 77.5 116.3  
141 30.2 23.8 35.8

Manual Integrations  
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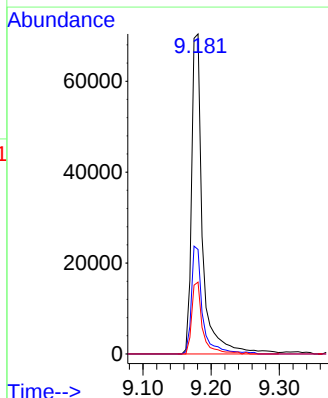
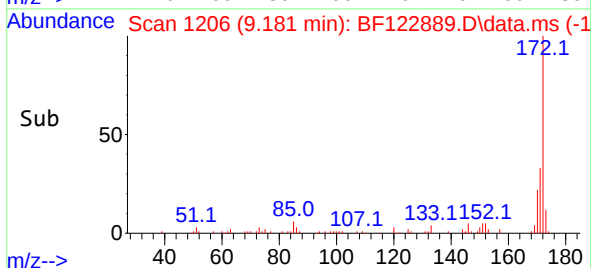
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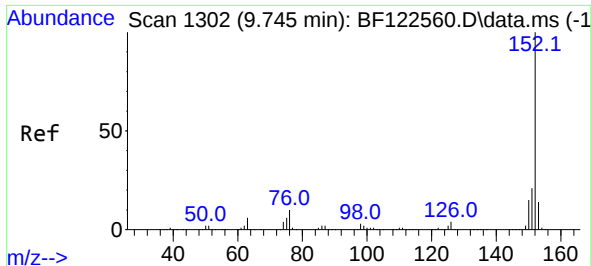


#45  
2-Fluorobiphenyl  
Concen: 5.53 ng  
RT: 9.181 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37



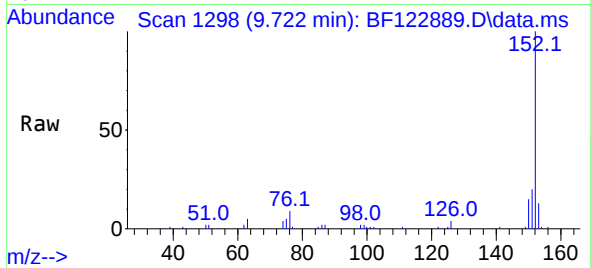
Tgt Ion: 172 Resp: 79056  
Ion Ratio Lower Upper  
172 100  
171 32.7 29.6 44.4  
170 22.5 19.5 29.3





#49  
Acenaphthylene  
Concen: 2.76 ng  
RT: 9.722 min Scan# 1298  
Delta R.T. -0.000 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

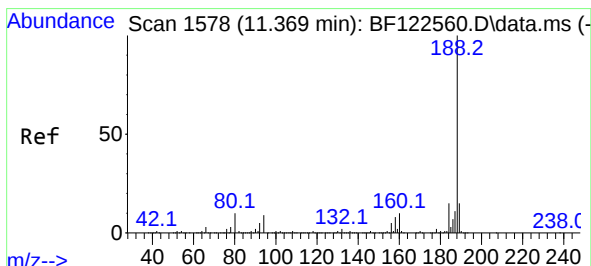
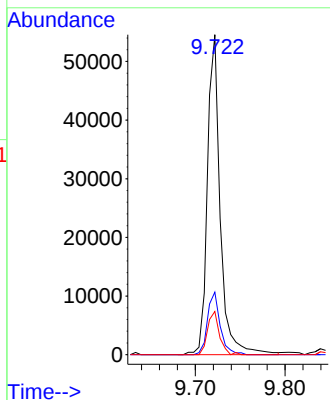
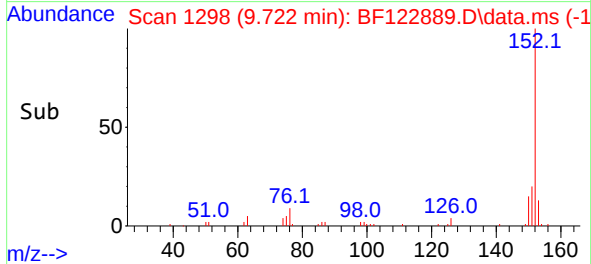
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL



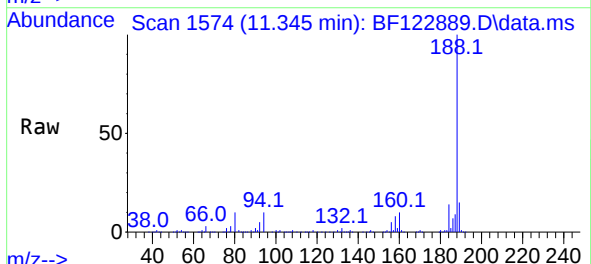
Tgt Ion:152 Resp: 54171  
Ion Ratio Lower Upper  
152 100  
151 19.6 16.6 25.0  
153 13.5 10.9 16.3

Manual Integrations  
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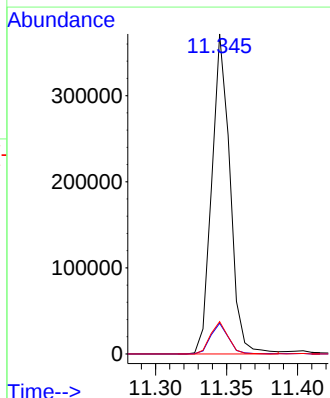
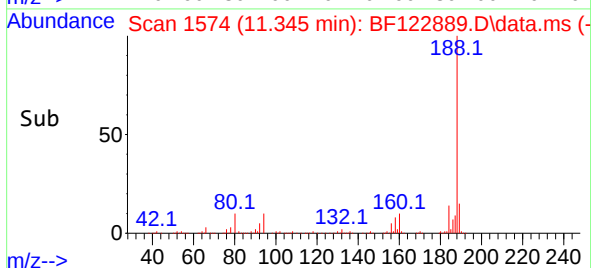
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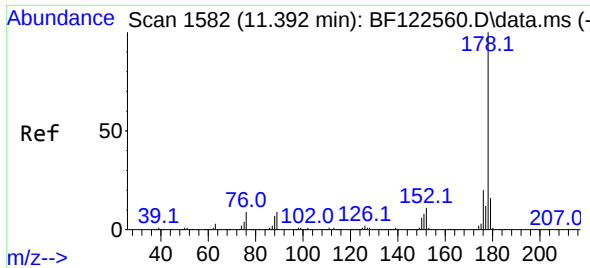


#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.345 min Scan# 1574  
Delta R.T. -0.000 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37



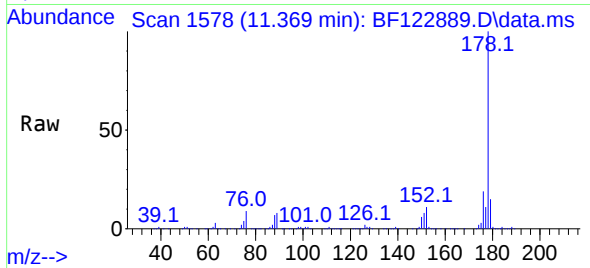
Tgt Ion:188 Resp: 331135  
Ion Ratio Lower Upper  
188 100  
94 9.6 7.4 11.2  
80 10.1 8.2 12.4





#71  
Phenanthrene  
Concen: 26.15 ng  
RT: 11.369 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

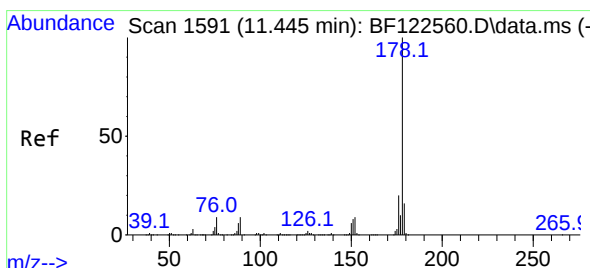
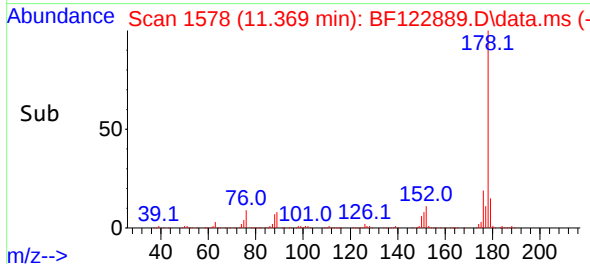
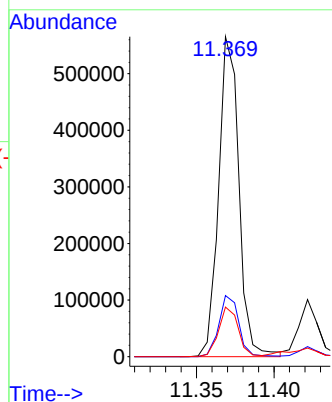
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL



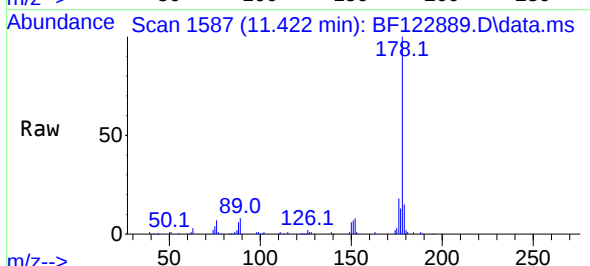
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Ion Ratio Lower Upper  
178 100  
176 19.1 16.2 24.2  
179 15.5 12.7 19.1

Manual Integrations  
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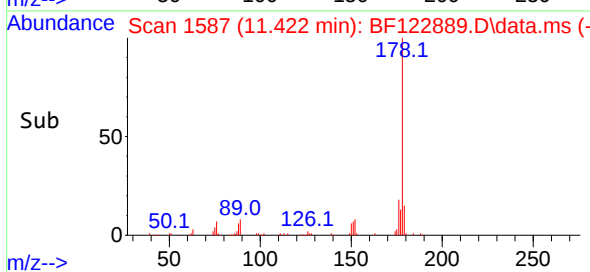
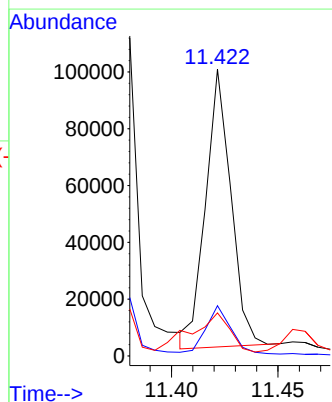
mohammad  
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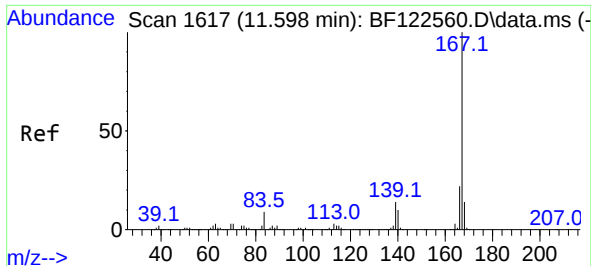


#72  
Anthracene  
Concen: 4.15 ng  
RT: 11.422 min Scan# 1587  
Delta R.T. -0.000 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37



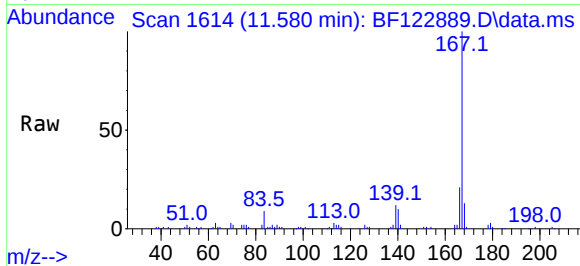
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Ion Ratio Lower Upper  
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176 17.6 15.6 23.4  
179 15.0 12.8 19.2





#73  
 Carbazole  
 Concen: 4.47 ng  
 RT: 11.580 min Scan# 1614  
 Delta R.T. 0.006 min  
 Lab File: BF122889.D  
 Acq: 30 Dec 2020 20:37

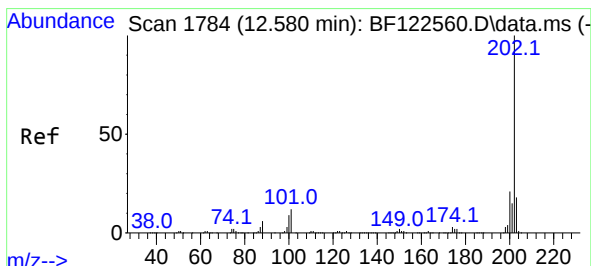
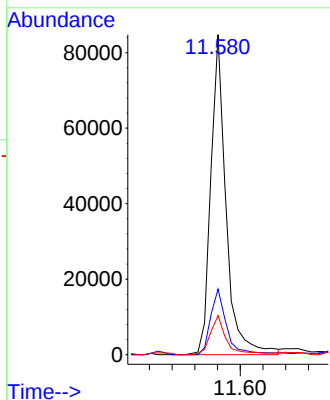
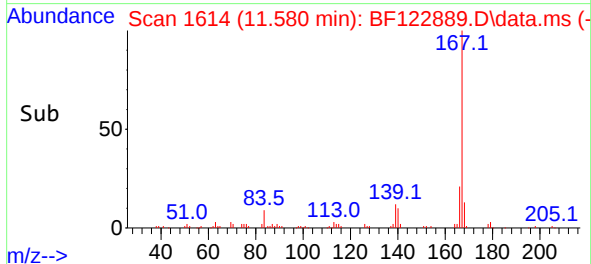
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-3(474+26)DL



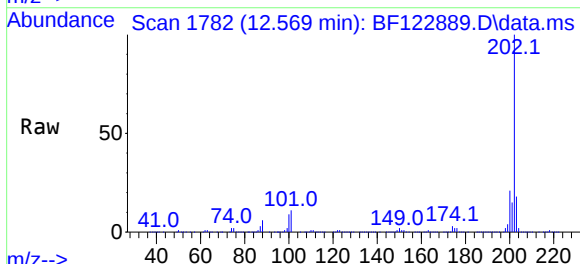
Tgt Ion:167 Resp: 79123  
 Ion Ratio Lower Upper  
 167 100  
 166 20.5 18.0 27.0  
 139 12.2 10.9 16.3

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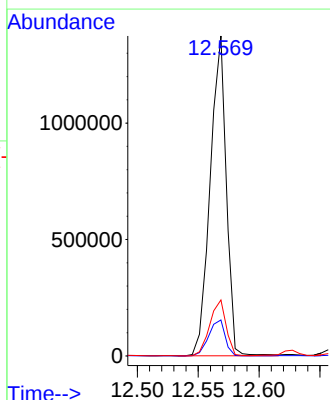
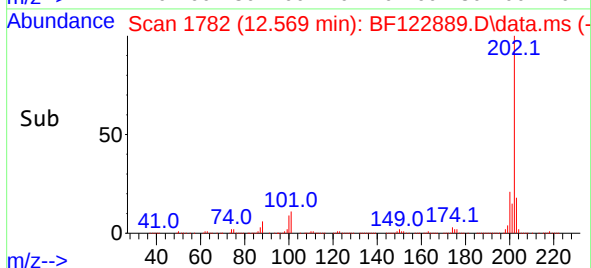
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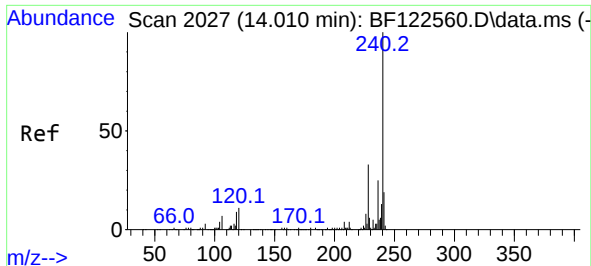


#75  
 Fluoranthene  
 Concen: 61.29 ng  
 RT: 12.569 min Scan# 1782  
 Delta R.T. 0.012 min  
 Lab File: BF122889.D  
 Acq: 30 Dec 2020 20:37



Tgt Ion:202 Resp: 1264874  
 Ion Ratio Lower Upper  
 202 100  
 101 11.3 0.0 32.2  
 203 17.5 0.0 38.1





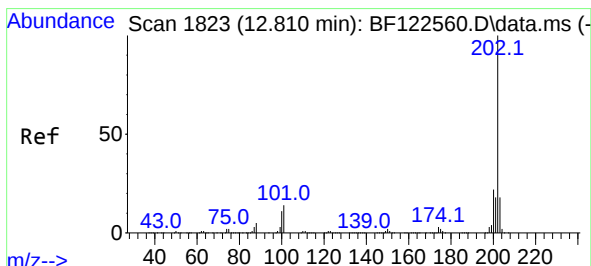
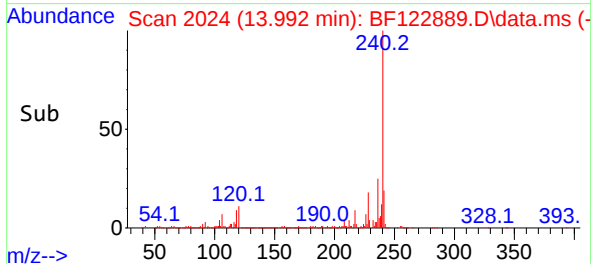
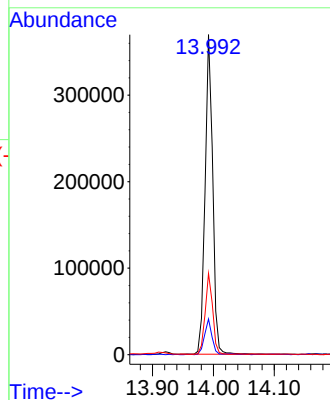
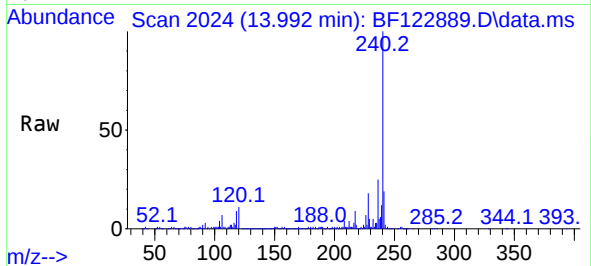
#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.992 min Scan# 2024  
Delta R.T. 0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Tgt Ion:240 Resp: 321376  
Ion Ratio Lower Upper  
240 100  
120 11.2 8.6 12.8  
236 25.4 20.3 30.5

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL

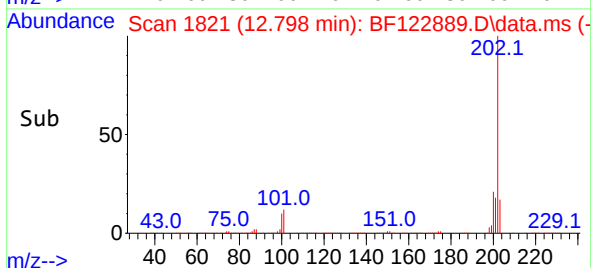
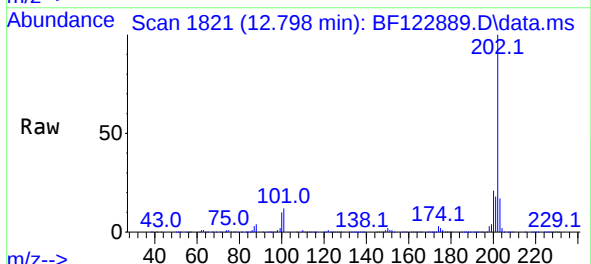
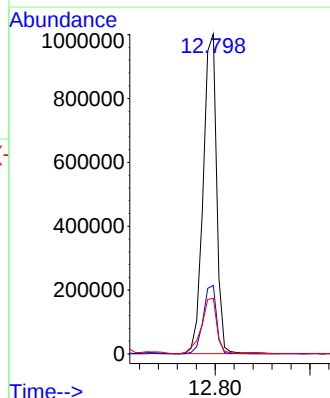
Manual Integrations  
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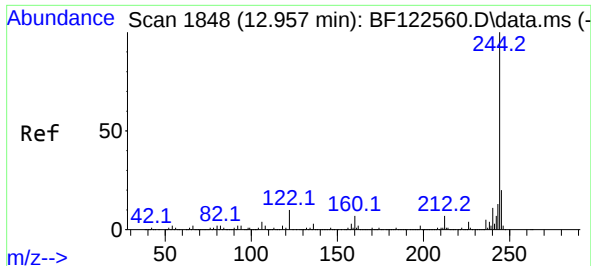
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#78  
Pyrene  
Concen: 39.75 ng  
RT: 12.798 min Scan# 1821  
Delta R.T. 0.012 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Tgt Ion:202 Resp: 987760  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.6 26.4  
203 17.4 14.6 21.8





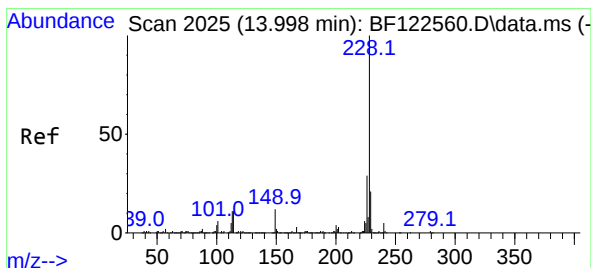
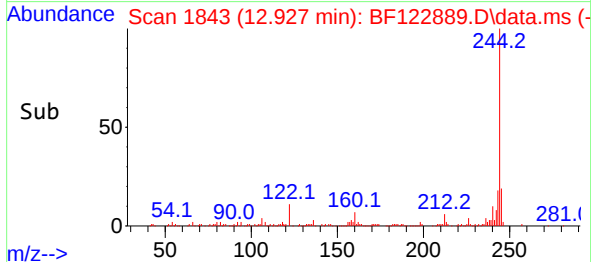
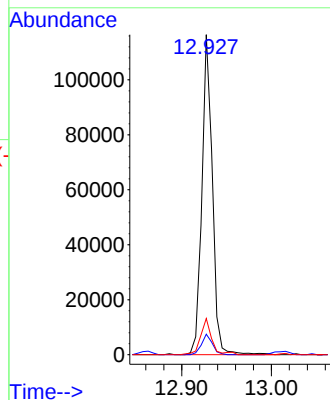
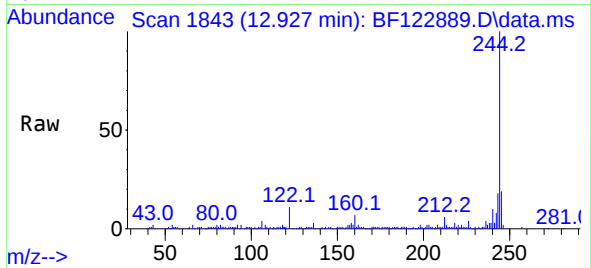
#79  
Terphenyl-d14  
Concen: 5.14 ng  
RT: 12.927 min Scan# 1843  
Delta R.T. -0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Tgt Ion:244 Resp: 94340  
Ion Ratio Lower Upper  
244 100  
212 6.4 5.7 8.5  
122 11.3 8.3 12.5

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL

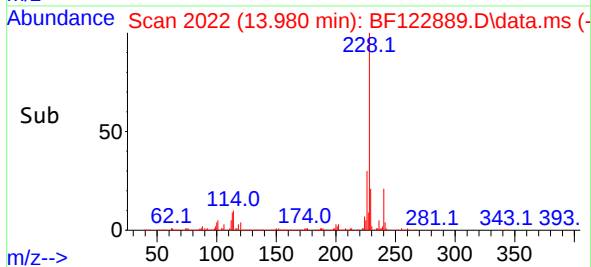
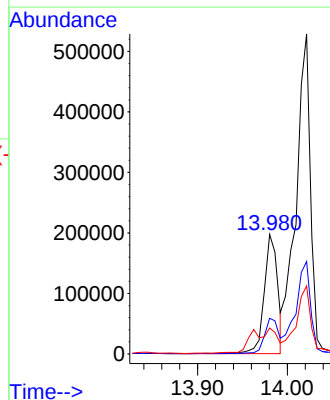
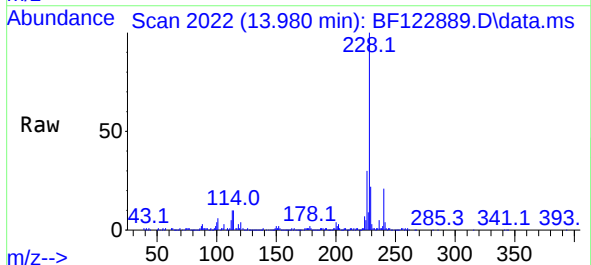
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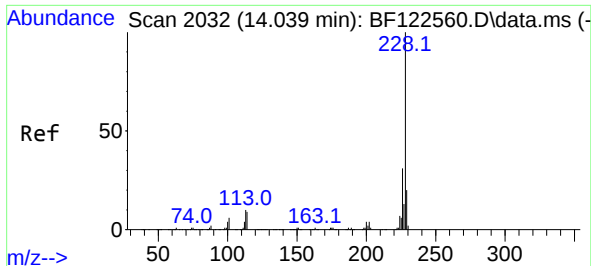
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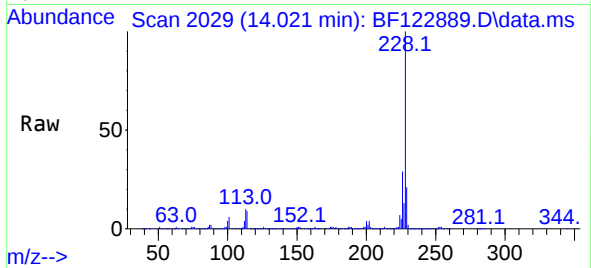
#81  
Benzo(a)anthracene  
Concen: 9.57 ng  
RT: 13.980 min Scan# 2022  
Delta R.T. 0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Tgt Ion:228 Resp: 205591  
Ion Ratio Lower Upper  
228 100  
226 29.8 23.0 34.4  
229 21.6 16.6 24.8

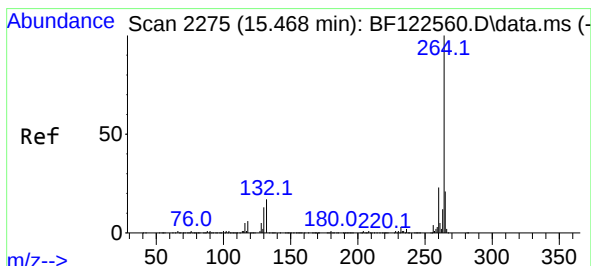
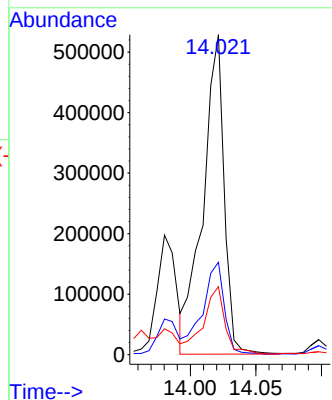
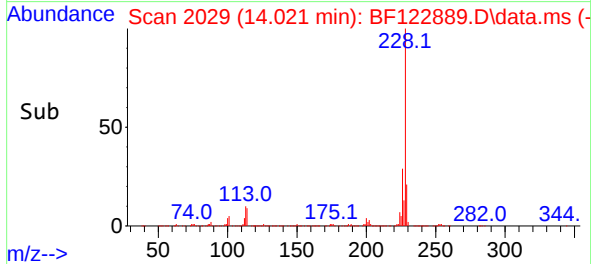




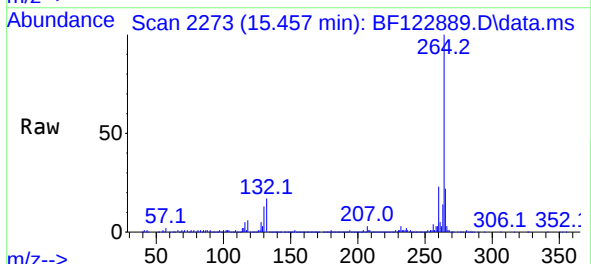
#83  
Chrysene  
Concen: 27.82 ng  
RT: 14.021 min Scan# 2029  
Delta R.T. 0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37



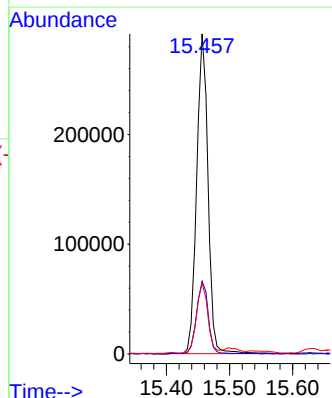
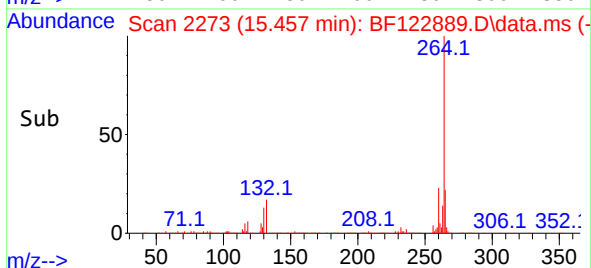
Tgt Ion:228 Resp: 594625  
Ion Ratio Lower Upper  
228 100  
226 28.9 24.6 36.8  
229 21.2 15.8 23.6



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.457 min Scan# 2273  
Delta R.T. 0.018 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37



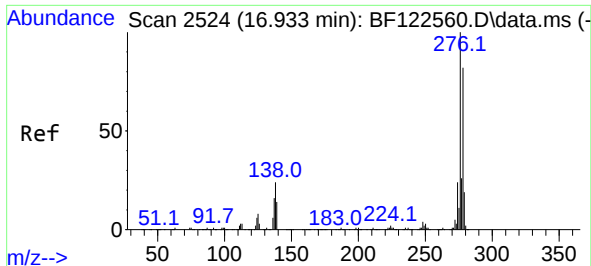
Tgt Ion:264 Resp: 361925  
Ion Ratio Lower Upper  
264 100  
260 22.8 18.6 28.0  
265 22.1 17.0 25.6



Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL

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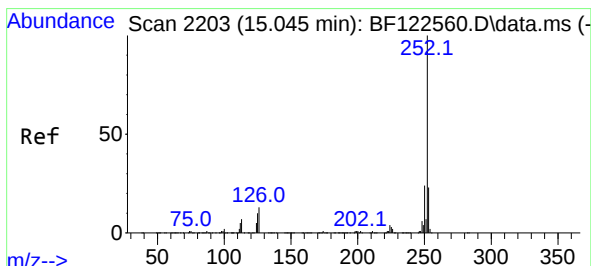
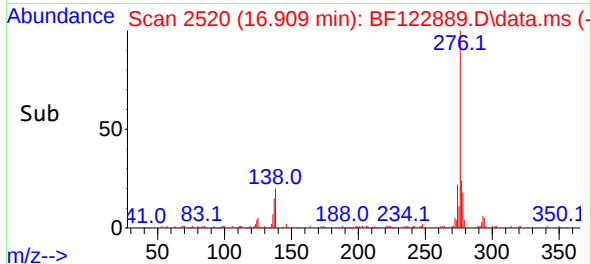
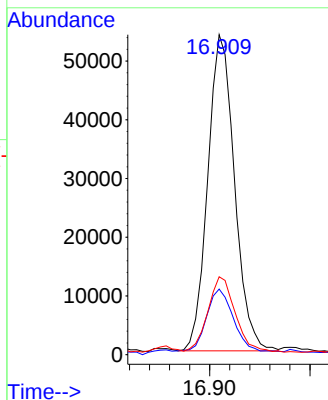
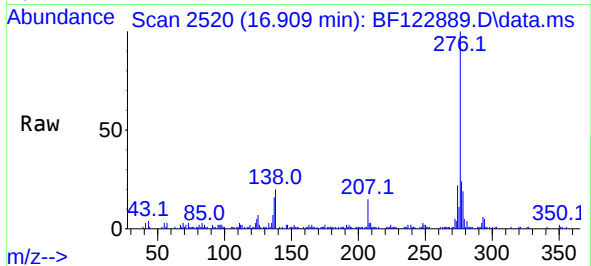
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.20 ng  
RT: 16.909 min Scan# 2520  
Delta R.T. 0.018 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Tgt Ion: 276 Resp: 99767  
Ion Ratio Lower Upper  
276 100  
138 22.3 18.7 28.1  
277 24.6 20.2 30.4

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL

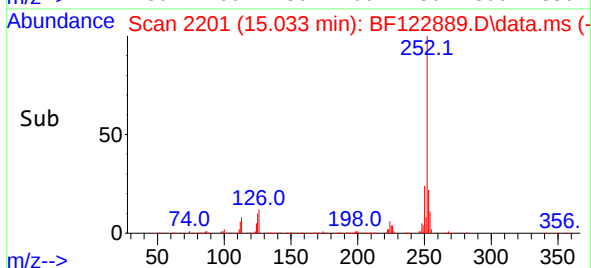
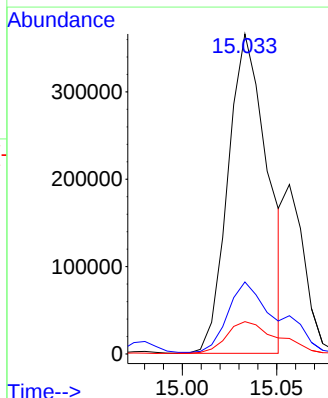
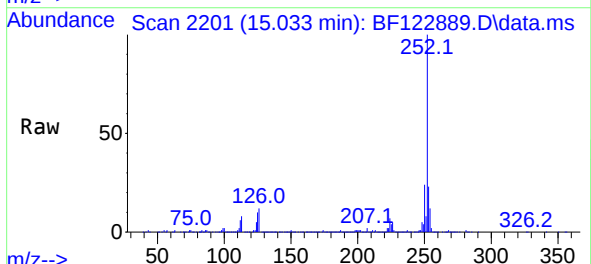
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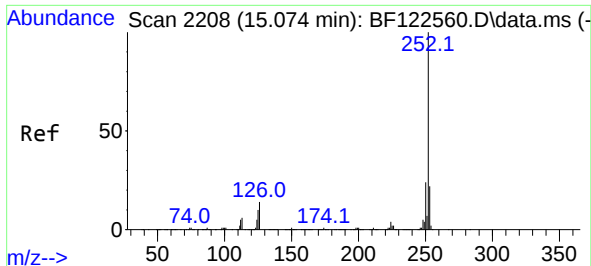
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#88  
Benzo(b)fluoranthene  
Concen: 20.93 ng m  
RT: 15.033 min Scan# 2201  
Delta R.T. 0.012 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Tgt Ion: 252 Resp: 531371  
Ion Ratio Lower Upper  
252 100  
253 22.5 18.3 27.5  
125 10.1 8.1 12.1





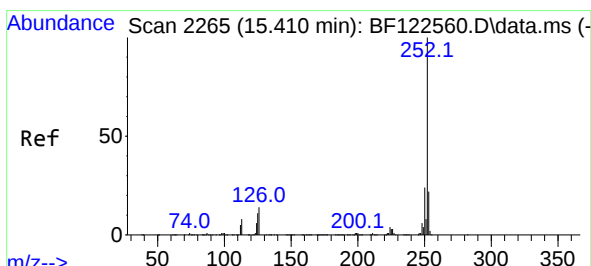
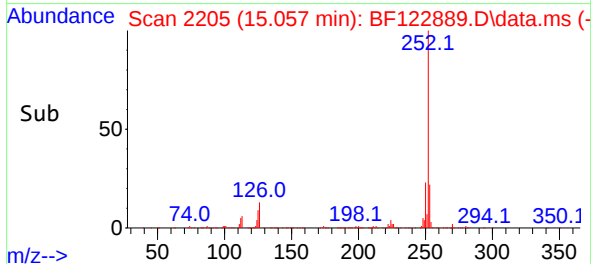
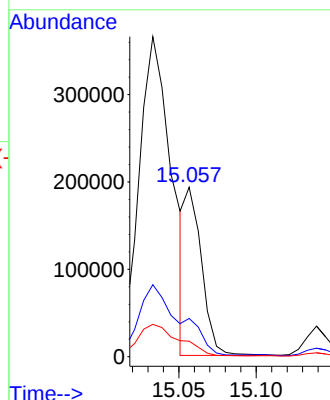
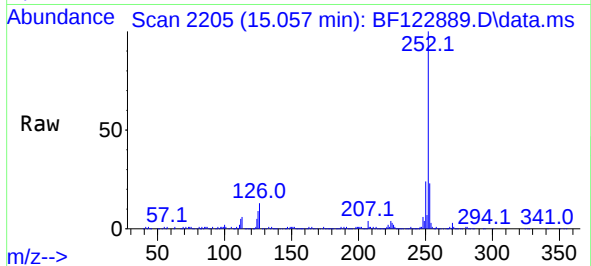
#89  
Benzo(k)fluoranthene  
Concen: 6.14 ng m  
RT: 15.057 min Scan# 2205  
Delta R.T. 0.006 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL

Tgt Ion:252 Resp: 142644  
Ion Ratio Lower Upper  
252 100  
253 22.6 17.8 26.8  
125 9.2 8.4 12.6

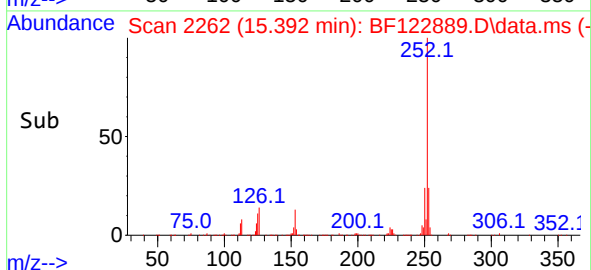
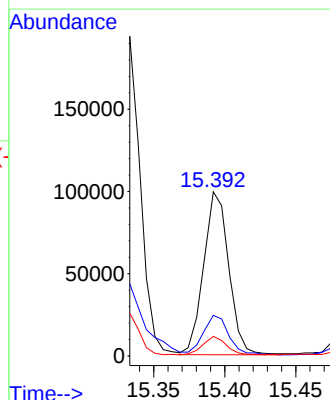
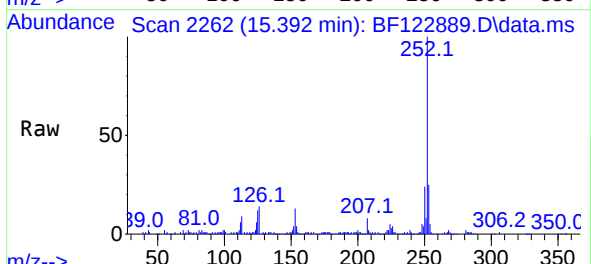
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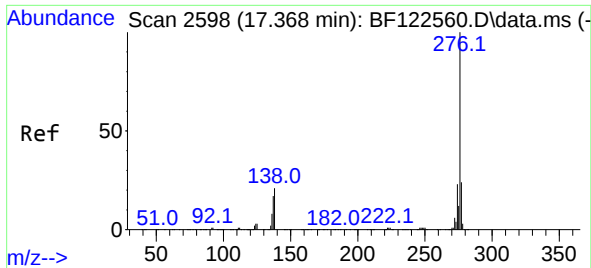
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#90  
Benzo(a)pyrene  
Concen: 5.51 ng  
RT: 15.392 min Scan# 2262  
Delta R.T. 0.012 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

Tgt Ion:252 Resp: 122499  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.5 26.3  
125 11.9 8.6 12.8





#92  
Benzo(g,h,i)perylene  
Concen: 4.32 ng  
RT: 17.357 min Scan# 2596  
Delta R.T. 0.029 min  
Lab File: BF122889.D  
Acq: 30 Dec 2020 20:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.5  | 19.3  | 28.9  |
| 138     | 20.8  | 16.6  | 24.8  |

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-3(474+26)DL

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