

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
 Data File : BF122885.D  
 Acq On : 30 Dec 2020 18:32  
 Operator : JU/CG  
 Sample : L5242-11  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-6(444+26)

Manual Integrations  
 APPROVED

mohammad  
 12/31/2020 10:45:21 AM

Quant Time: Dec 31 00:55:07 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  | 129335   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.104  | 136  | 469592   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.857  | 164  | 234475   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.345 | 188  | 378968   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.998 | 240  | 331861   | 20.00 | ng    | 0.01     |
| 86) Perylene-d12            | 15.462 | 264  | 382732   | 20.00 | ng    | 0.02     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.439  | 112  | 591035   | 72.35 | ng    | 0.00     |
| 7) Phenol-d6                | 6.457  | 99   | 709806   | 65.51 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.381  | 82   | 442526   | 47.21 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.651 | 330  | 205078   | 66.82 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.180  | 172  | 855024   | 49.32 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.933 | 244  | 818988   | 43.20 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 49) Acenaphthylene          | 9.722  | 152  | 199733   | 8.39  | ng    | 98       |
| 50) Dimethylphthalate       | 9.575  | 163  | 46440    | 2.48  | ng    | 98       |
| 71) Phenanthrene            | 11.369 | 178  | 174595   | 7.75  | ng    | 98       |
| 72) Anthracene              | 11.421 | 178  | 258772   | 11.59 | ng    | 99       |
| 73) Carbazole               | 11.580 | 167  | 153261   | 7.57  | ng    | 99       |
| 75) Fluoranthene            | 12.568 | 202  | 1311960  | 55.55 | ng    | 99       |
| 78) Pyrene                  | 12.798 | 202  | 1222299  | 47.64 | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.986 | 228  | 556969m  | 25.11 | ng    |          |
| 83) Chrysene                | 14.021 | 228  | 925047   | 41.91 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.933 | 276  | 619626   | 24.66 | ng    | 95       |
| 88) Benzo(b)fluoranthene    | 15.045 | 252  | 1534250m | 57.13 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.068 | 252  | 370244m  | 15.08 | ng    |          |
| 90) Benzo(a)pyrene          | 15.404 | 252  | 576070   | 24.52 | ng    | 96       |
| 91) Dibenzo(a,h)anthracene  | 16.927 | 278  | 151284m  | 7.36  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.380 | 276  | 610675   | 30.69 | ng    | 98       |
| -----                       |        |      |          |       |       |          |

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

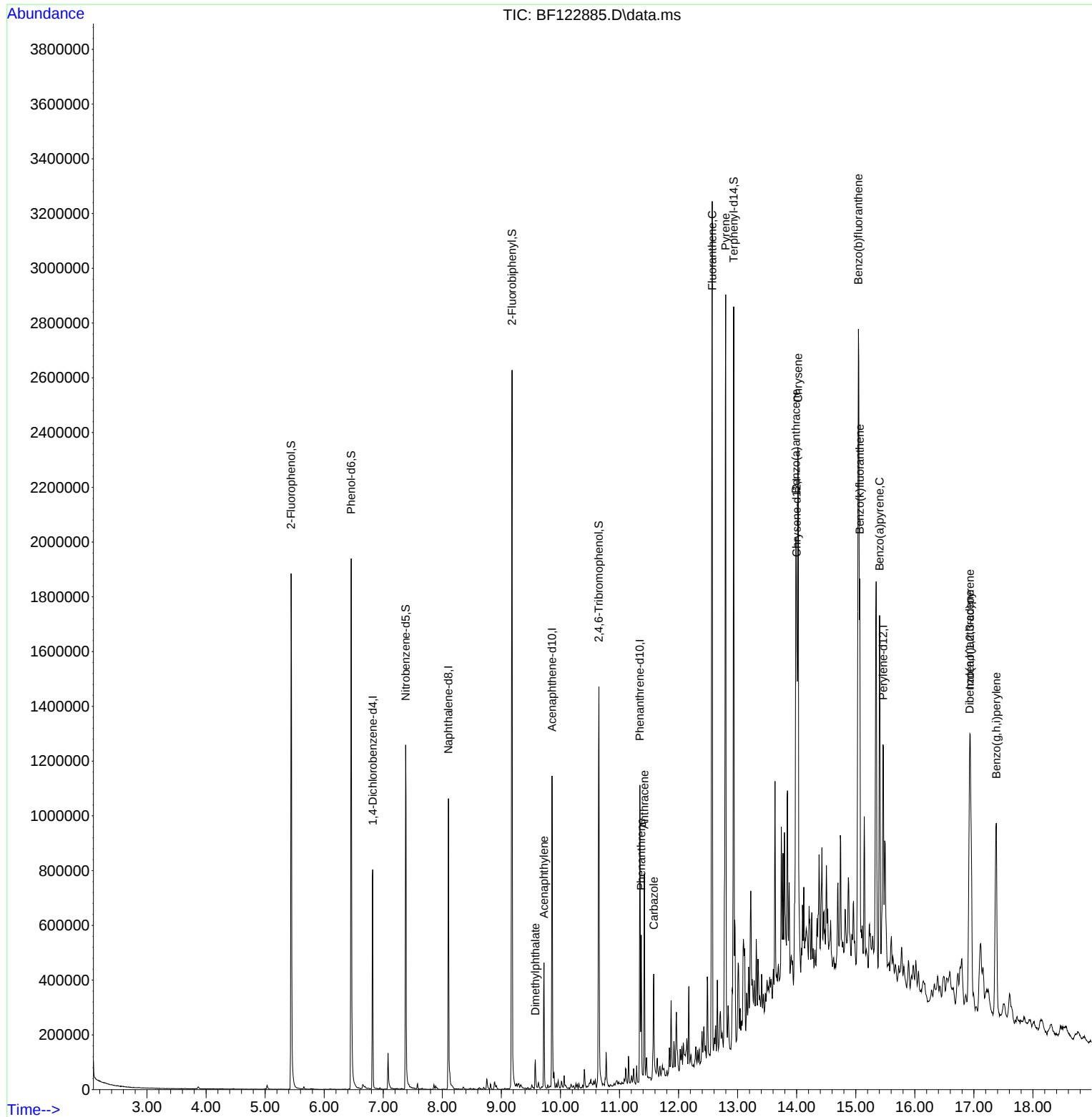
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
Data File : BF122885.D  
Acq On : 30 Dec 2020 18:32  
Operator : JU/CG  
Sample : L5242-11  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

Manual Integrations  
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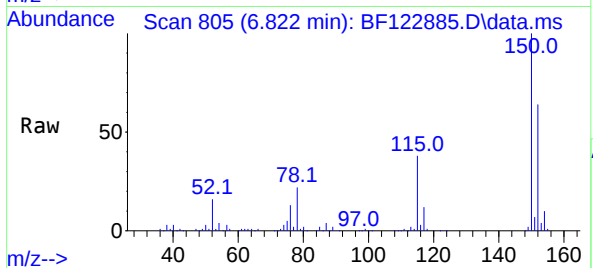
Quant Time: Dec 31 00:55:07 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF120520.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 15 18:14:23 2020  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.822 min Scan# 805  
Delta R.T. -0.000 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

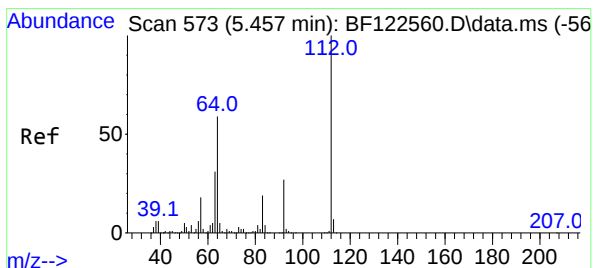
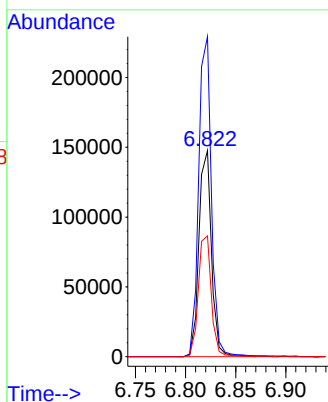
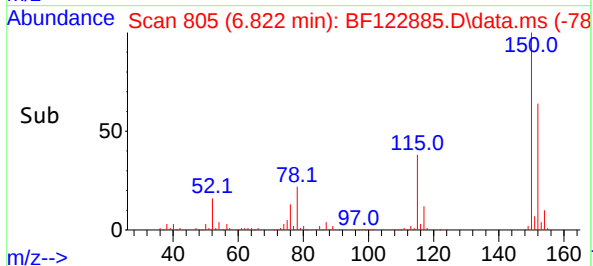
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)



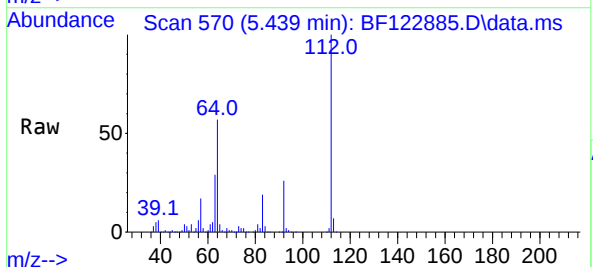
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Ion Ratio Lower Upper  
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150 155.3 125.8 188.6  
115 58.7 49.3 73.9

Manual Integrations  
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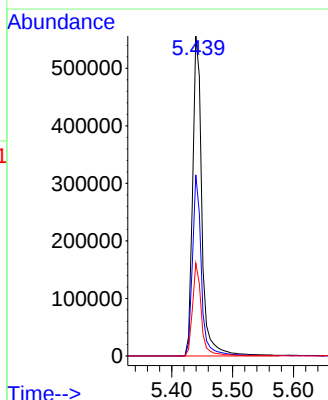
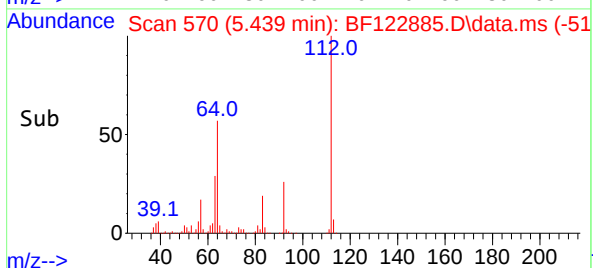
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#5  
2-Fluorophenol  
Concen: 72.35 ng  
RT: 5.439 min Scan# 570  
Delta R.T. 0.006 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

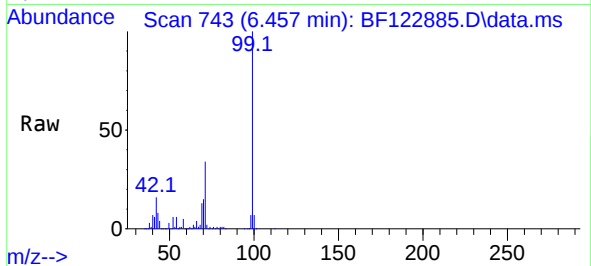


Tgt Ion:112 Resp: 591035  
Ion Ratio Lower Upper  
112 100  
64 56.6 46.9 70.3  
63 29.0 24.5 36.7

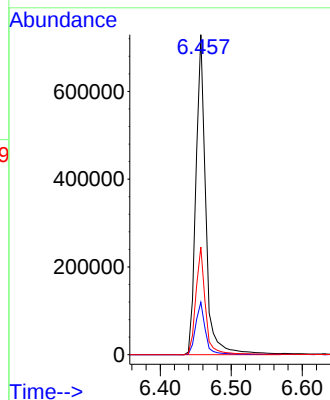




#7  
Phenol-d6  
Concen: 65.51 ng  
RT: 6.457 min Scan# 743  
Delta R.T. -0.000 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



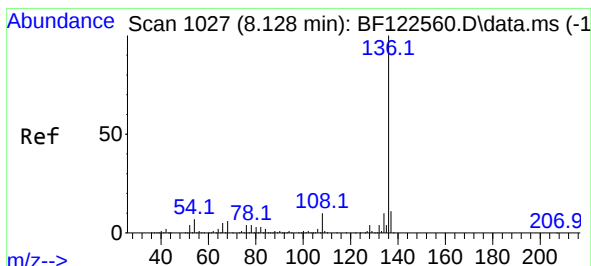
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 709806 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 16.4  | 13.8  | 20.6   |
| 71       | 33.7  | 26.9  | 40.3   |



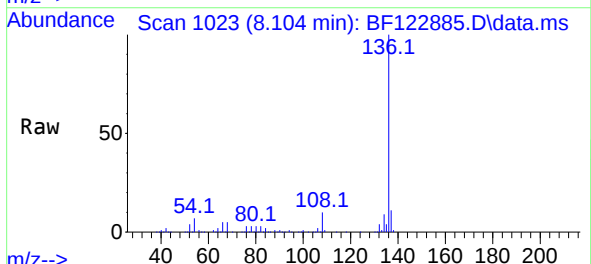
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

Manual Integrations  
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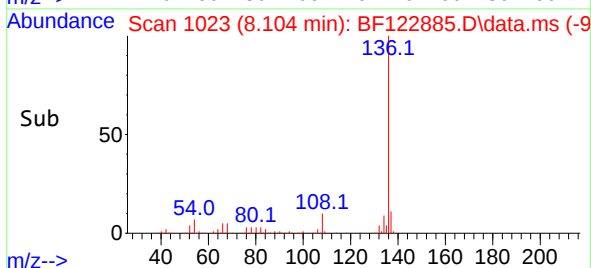
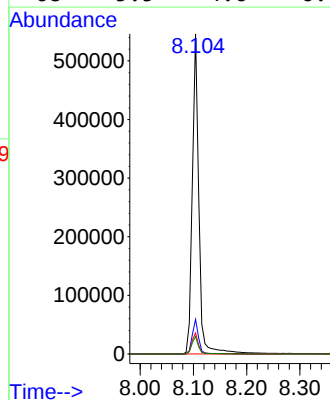
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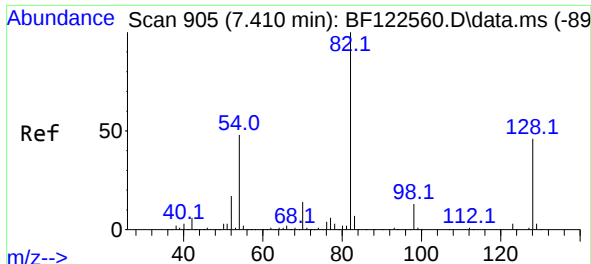


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. -0.006 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 469592 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.8   | 13.2   |
| 54       | 6.6   | 5.5   | 8.3    |
| 68       | 5.5   | 4.6   | 6.8    |





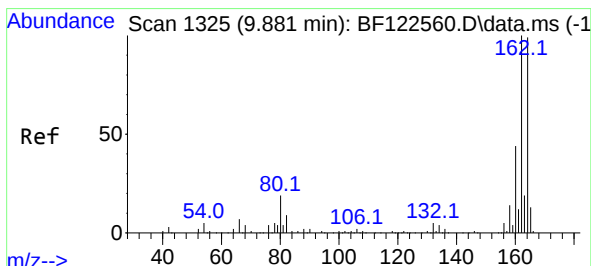
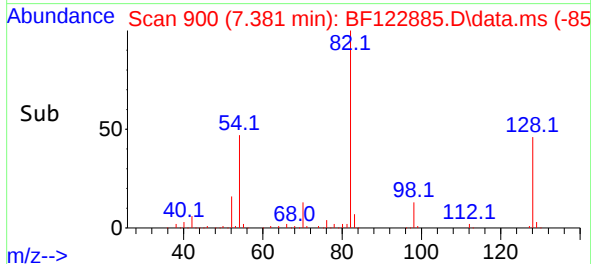
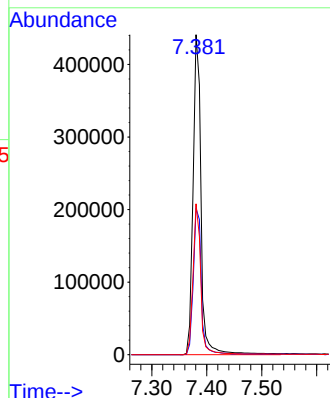
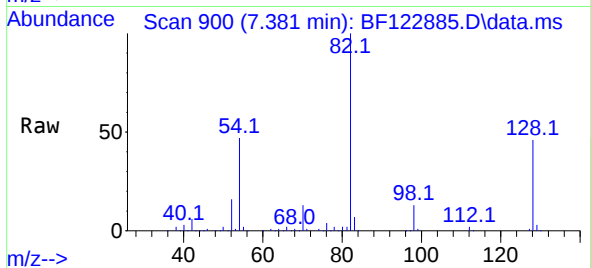
#23  
Nitrobenzene-d5  
Concen: 47.21 ng  
RT: 7.381 min Scan# 900  
Delta R.T. -0.012 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

Tgt Ion: 82 Resp: 442526  
Ion Ratio Lower Upper  
82 100  
128 45.7 37.0 55.4  
54 47.1 38.4 57.6

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

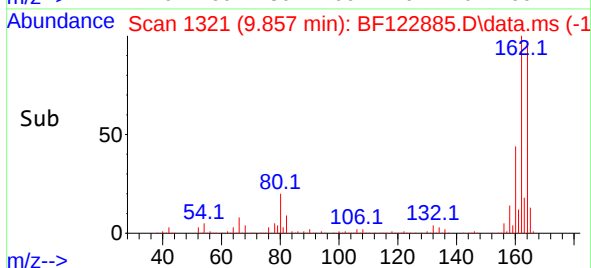
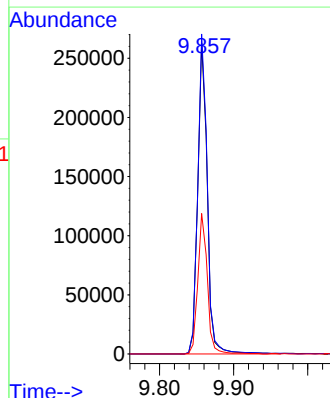
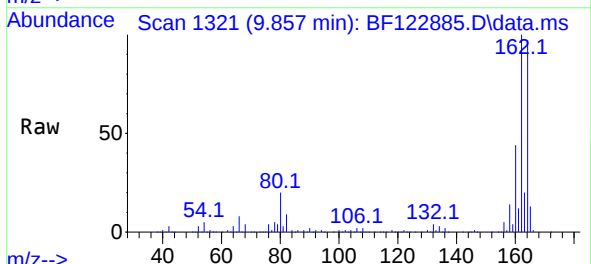
Manual Integrations  
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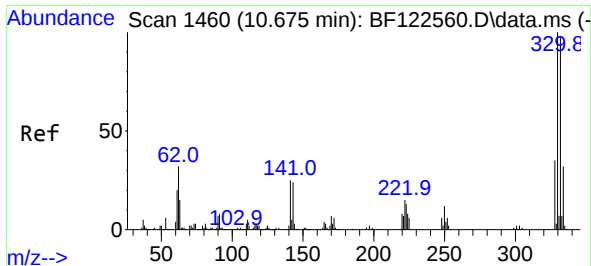
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#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.857 min Scan# 1321  
Delta R.T. -0.006 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

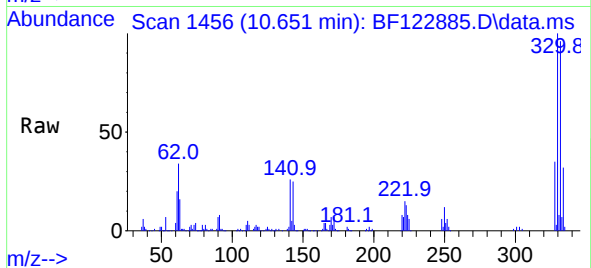
Tgt Ion:164 Resp: 234475  
Ion Ratio Lower Upper  
164 100  
162 102.9 80.8 121.2  
160 45.2 35.4 53.0





#42  
2,4,6-Tribromophenol  
Concen: 66.82 ng  
RT: 10.651 min Scan# 1456  
Delta R.T. -0.000 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

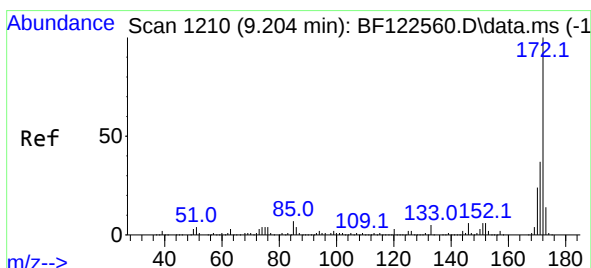
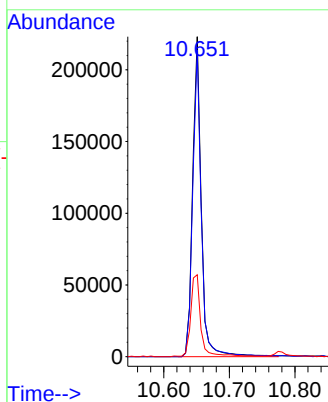
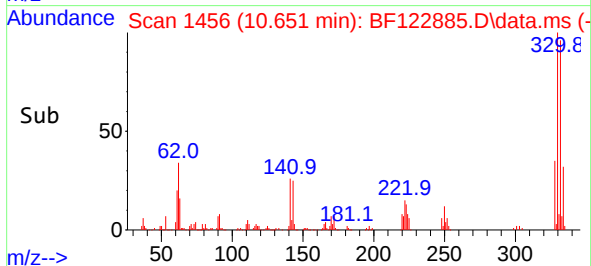
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)



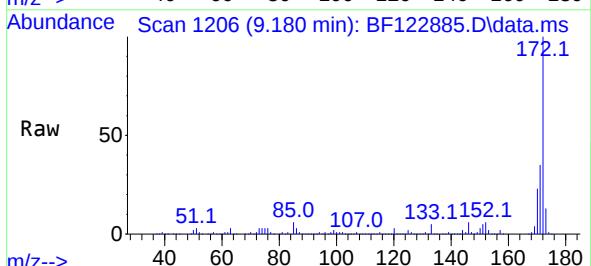
Tgt Ion:330 Resp: 205078  
Ion Ratio Lower Upper  
330 100  
332 96.3 77.5 116.3  
141 30.1 23.8 35.8

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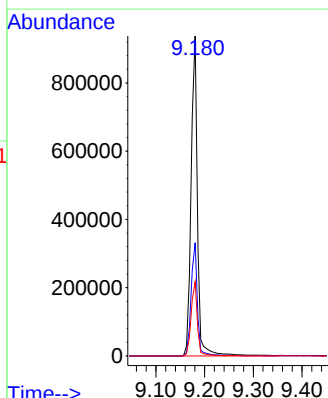
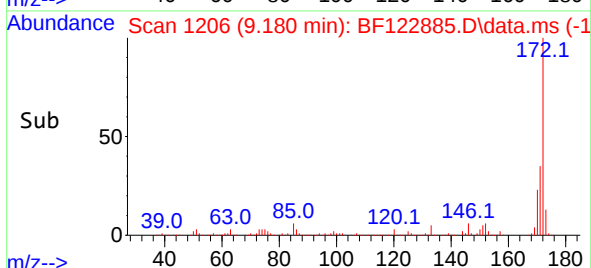
mohammad  
12/31/2020 10:45:21 AM

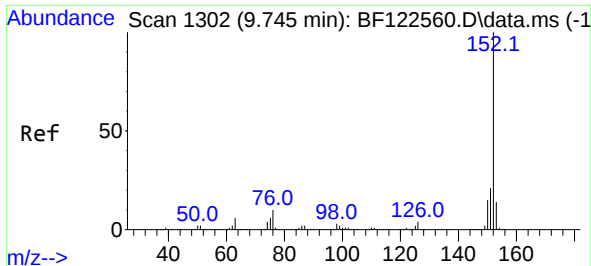


#45  
2-Fluorobiphenyl  
Concen: 49.32 ng  
RT: 9.180 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



Tgt Ion:172 Resp: 855024  
Ion Ratio Lower Upper  
172 100  
171 35.4 29.6 44.4  
170 23.2 19.5 29.3





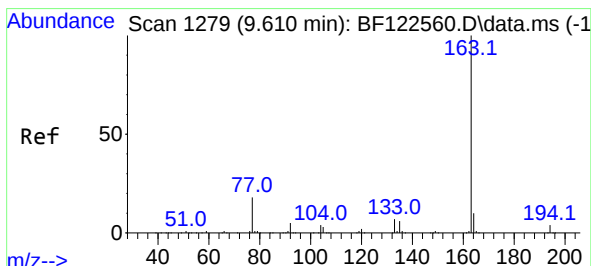
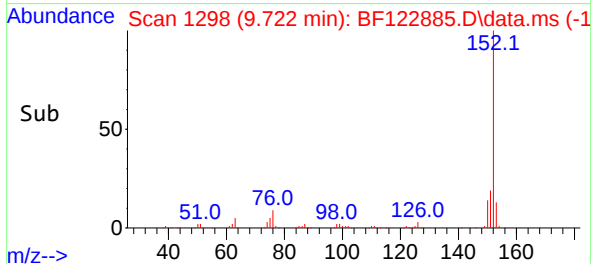
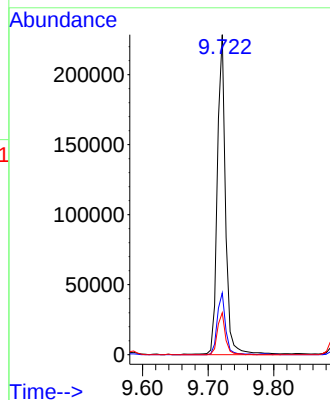
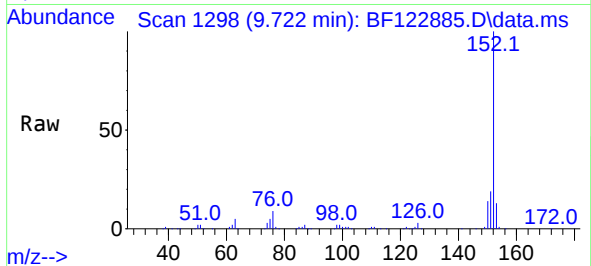
#49  
Acenaphthylene  
Concen: 8.39 ng  
RT: 9.722 min Scan# 1298  
Delta R.T. -0.000 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

Tgt Ion:152 Resp: 199733  
Ion Ratio Lower Upper  
152 100  
151 19.3 16.6 25.0  
153 13.1 10.9 16.3

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

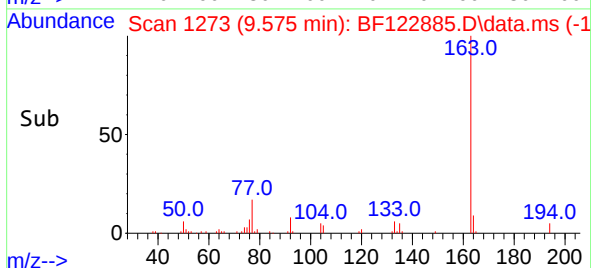
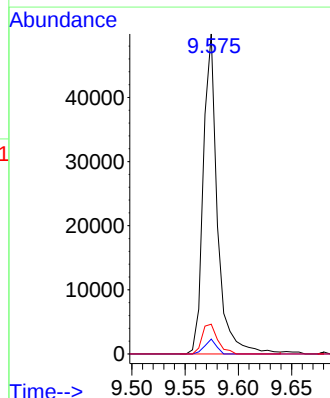
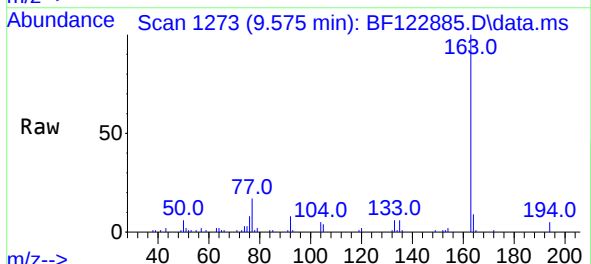
Manual Integrations  
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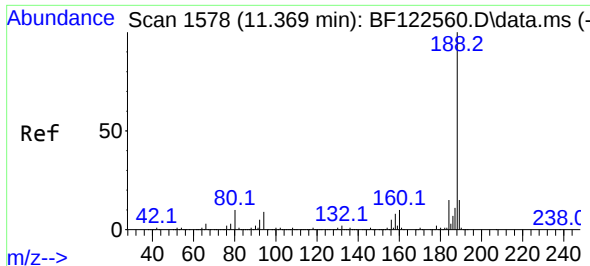
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12/31/2020 10:45:21 AM



#50  
Dimethylphthalate  
Concen: 2.48 ng  
RT: 9.575 min Scan# 1273  
Delta R.T. -0.012 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

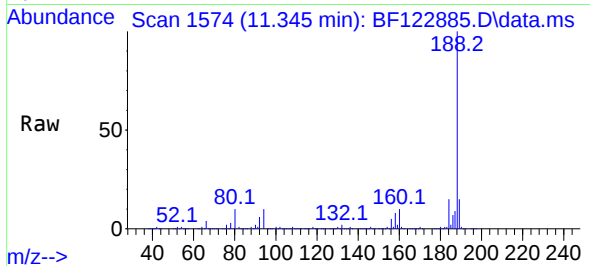
Tgt Ion:163 Resp: 46440  
Ion Ratio Lower Upper  
163 100  
194 4.7 3.4 5.0  
164 9.3 8.1 12.1





#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.345 min Scan# 1574  
Delta R.T. -0.000 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

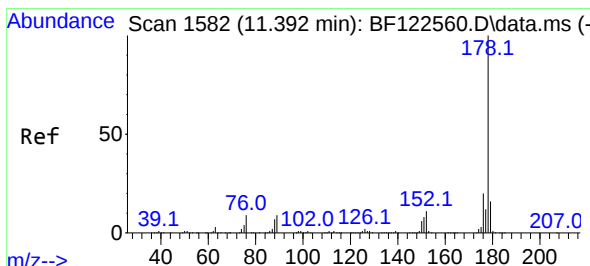
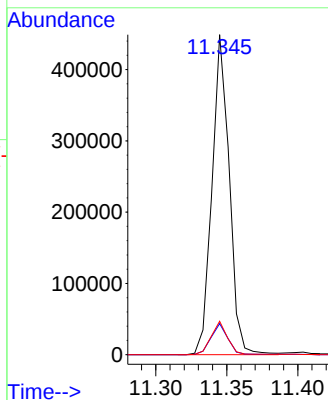
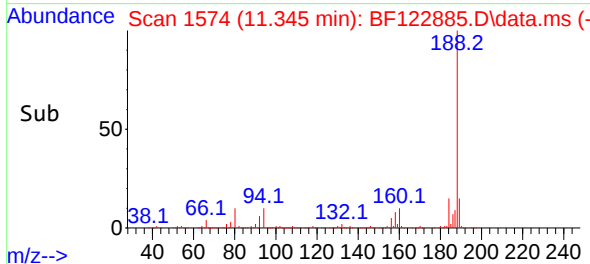
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)



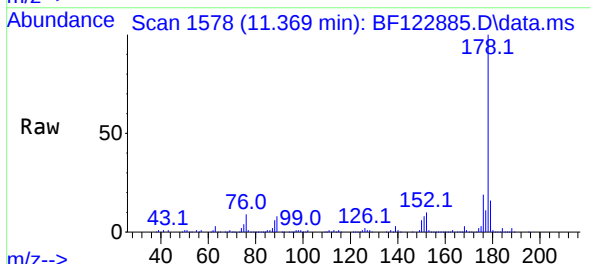
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Ion Ratio Lower Upper  
188 100  
94 9.7 7.4 11.2  
80 10.4 8.2 12.4

Manual Integrations  
APPROVED

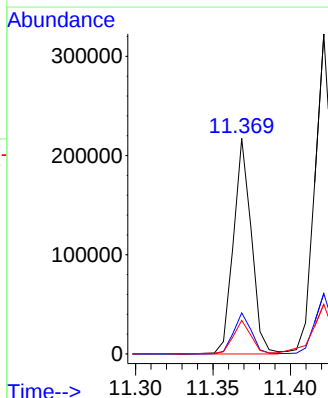
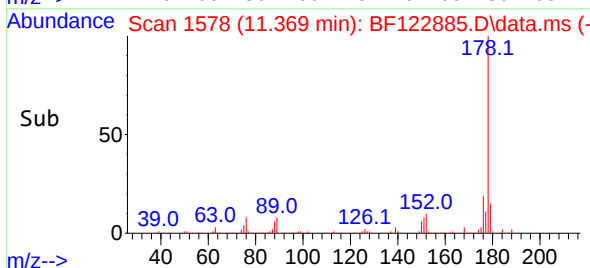
mohammad  
12/31/2020 10:45:21 AM

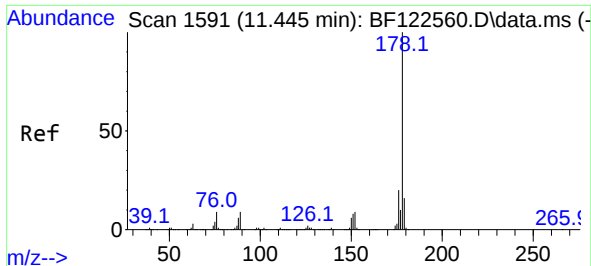


#71  
Phenanthrene  
Concen: 7.75 ng  
RT: 11.369 min Scan# 1578  
Delta R.T. -0.000 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



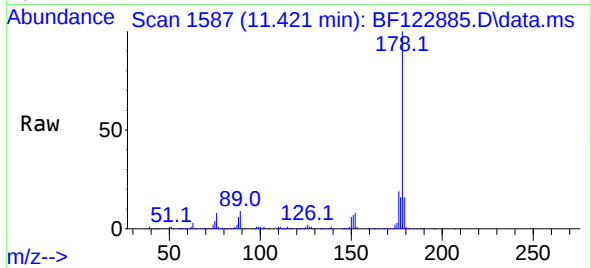
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Ion Ratio Lower Upper  
178 100  
176 19.1 16.2 24.2  
179 15.6 12.7 19.1





#72  
 Anthracene  
 Concen: 11.59 ng  
 RT: 11.421 min Scan# 1587  
 Delta R.T. -0.000 min  
 Lab File: BF122885.D  
 Acq: 30 Dec 2020 18:32

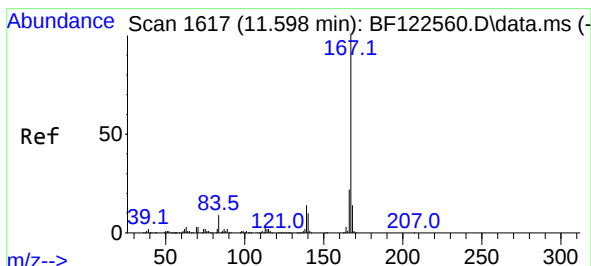
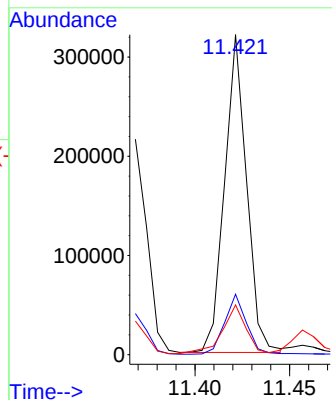
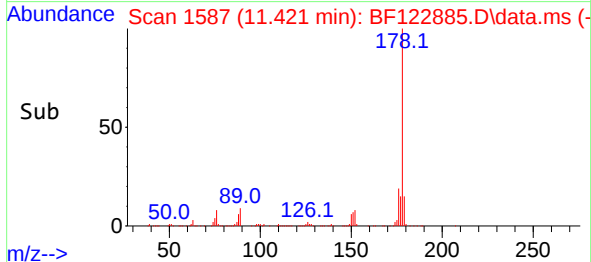
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-6(444+26)



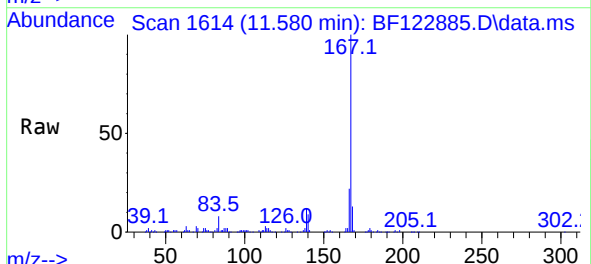
Tgt Ion:178 Resp: 258772  
 Ion Ratio Lower Upper  
 178 100  
 176 18.9 15.6 23.4  
 179 15.6 12.8 19.2

Manual Integrations  
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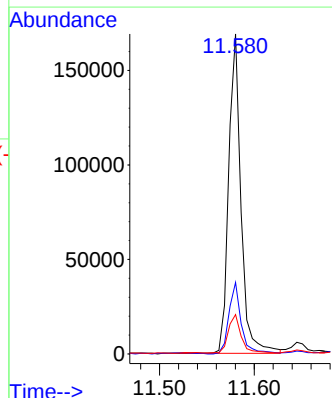
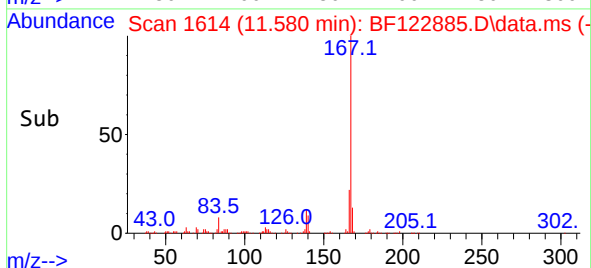
mohammad  
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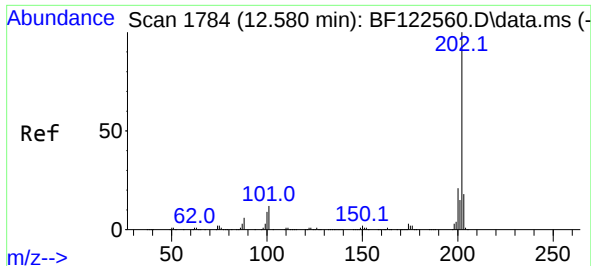


#73  
 Carbazole  
 Concen: 7.57 ng  
 RT: 11.580 min Scan# 1614  
 Delta R.T. 0.006 min  
 Lab File: BF122885.D  
 Acq: 30 Dec 2020 18:32



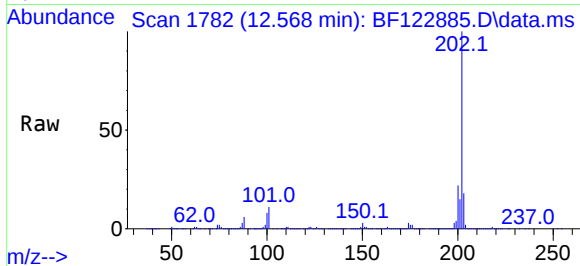
Tgt Ion:167 Resp: 153261  
 Ion Ratio Lower Upper  
 167 100  
 166 22.4 18.0 27.0  
 139 12.3 10.9 16.3





#75  
Fluoranthene  
Concen: 55.55 ng  
RT: 12.568 min Scan# 1782  
Delta R.T. 0.012 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

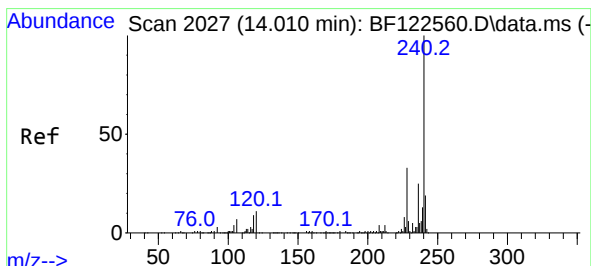
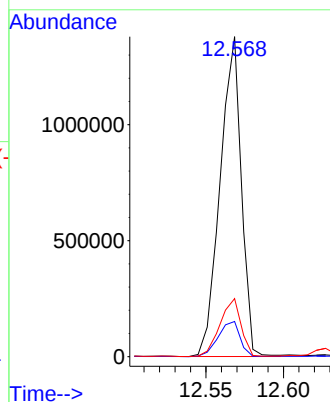
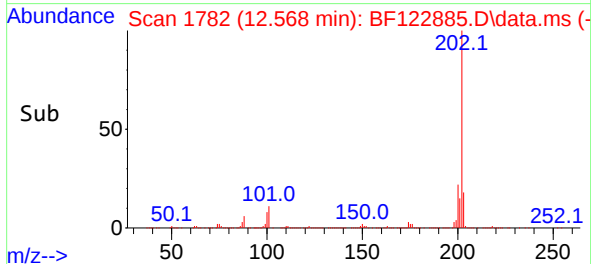
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)



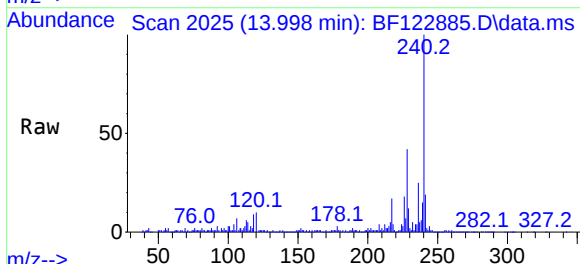
Tgt Ion:202 Resp: 1311960  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 32.2  
203 18.2 0.0 38.1

Manual Integrations  
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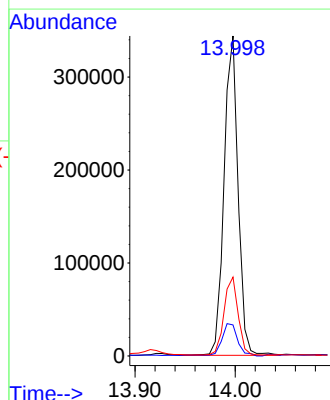
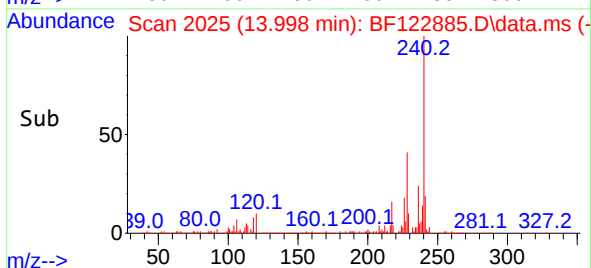
mohammad  
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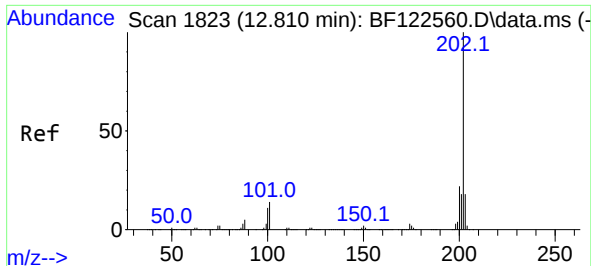


#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. 0.012 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

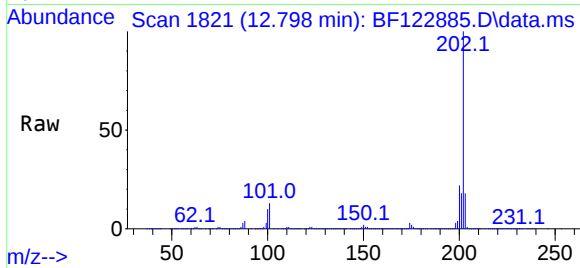


Tgt Ion:240 Resp: 331861  
Ion Ratio Lower Upper  
240 100  
120 9.7 8.6 12.8  
236 24.7 20.3 30.5



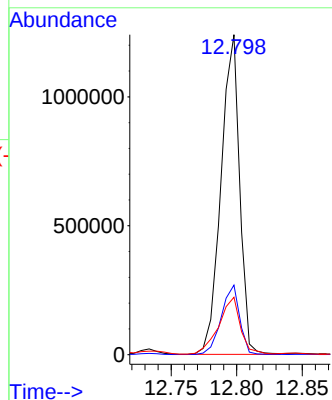


#78  
Pyrene  
Concen: 47.64 ng  
RT: 12.798 min Scan# 1821  
Delta R.T. 0.012 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



Tgt Ion:202 Resp: 1222299

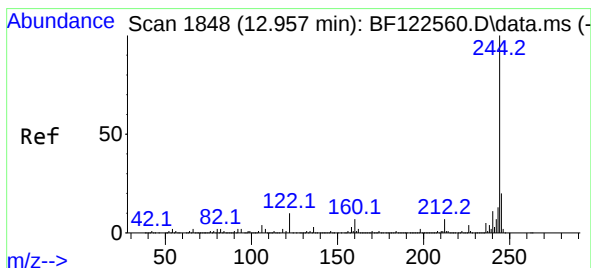
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.8  | 17.6  | 26.4  |
| 203 | 17.9  | 14.6  | 21.8  |



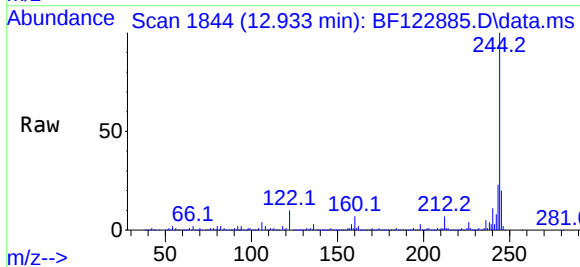
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

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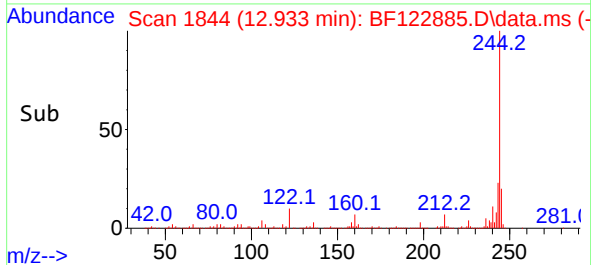
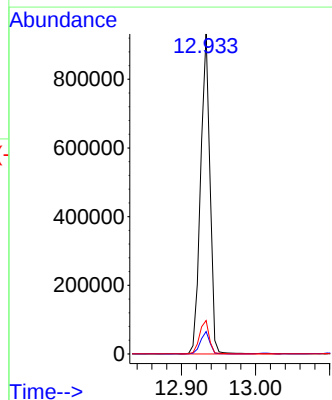


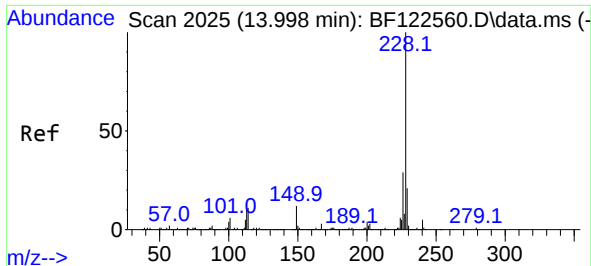
#79  
Terphenyl-d14  
Concen: 43.20 ng  
RT: 12.933 min Scan# 1844  
Delta R.T. -0.000 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



Tgt Ion:244 Resp: 818988

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.0   | 5.7   | 8.5   |
| 122 | 10.5  | 8.3   | 12.5  |





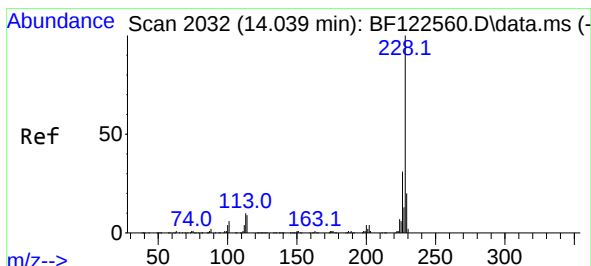
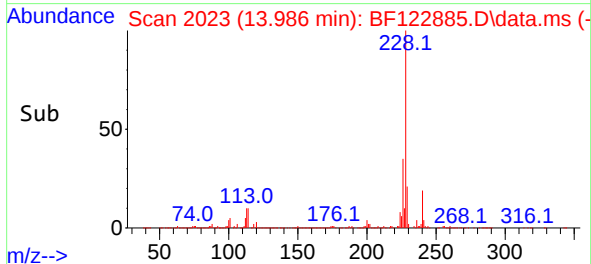
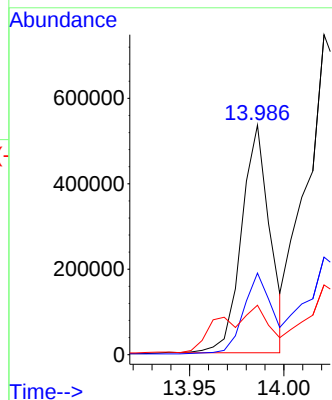
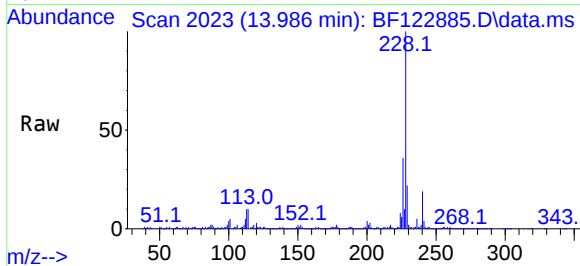
#81  
Benzo(a)anthracene  
Concen: 25.11 ng m  
RT: 13.986 min Scan# 2023  
Delta R.T. 0.012 min  
Lab File: BF122885.D  
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Tgt Ion:228 Resp: 556969  
Ion Ratio Lower Upper  
228 100  
226 35.5 23.0 34.4#  
229 21.6 16.6 24.8

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

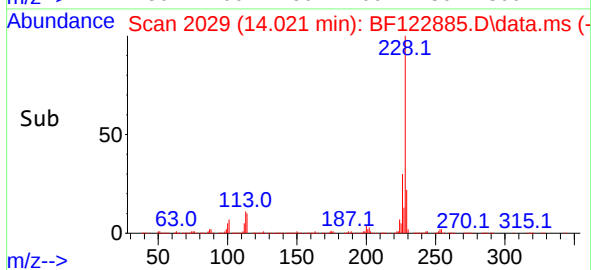
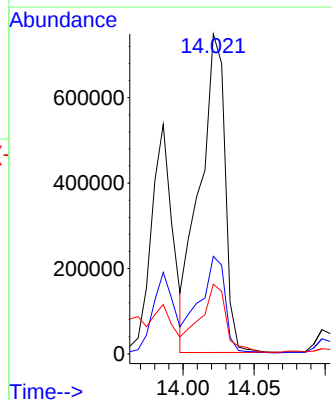
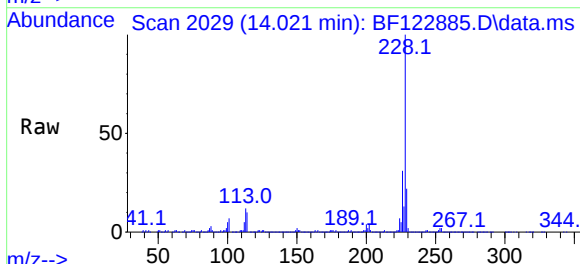
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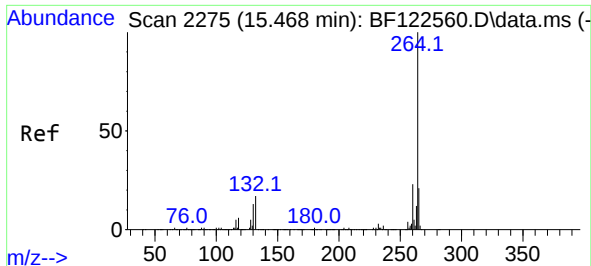
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#83  
Chrysene  
Concen: 41.91 ng  
RT: 14.021 min Scan# 2029  
Delta R.T. 0.006 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

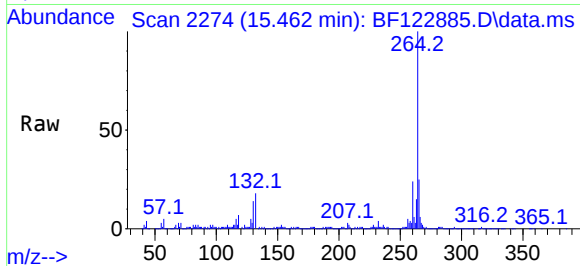
Tgt Ion:228 Resp: 925047  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.6 36.8  
229 21.8 15.8 23.6





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.462 min Scan# 2274  
Delta R.T. 0.023 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

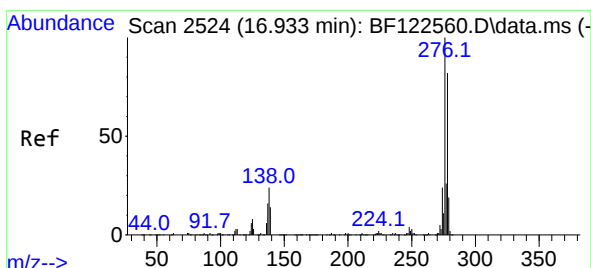
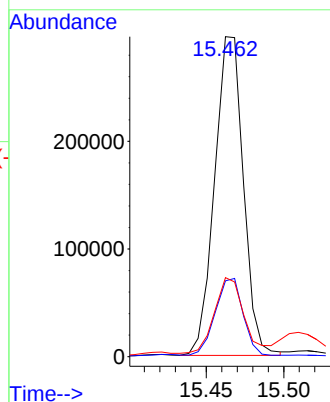
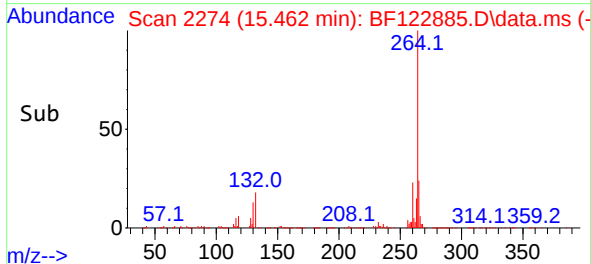
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)



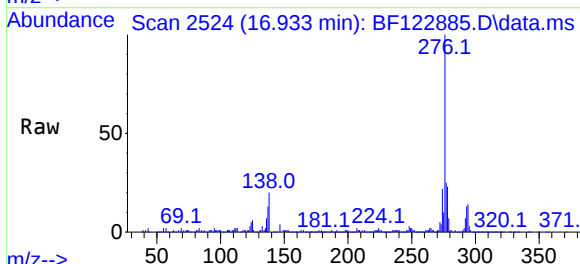
Tgt Ion:264 Resp: 382732  
Ion Ratio Lower Upper  
264 100  
260 23.7 18.6 28.0  
265 24.7 17.0 25.6

Manual Integrations  
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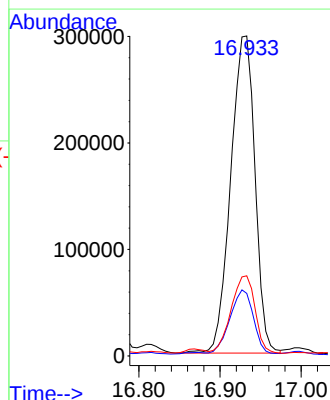
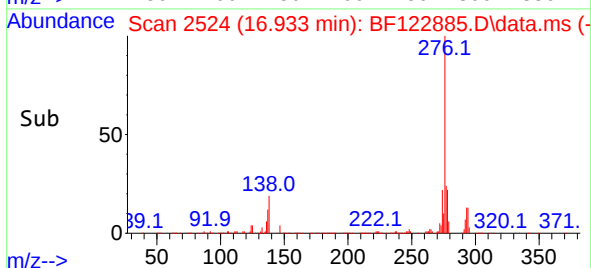
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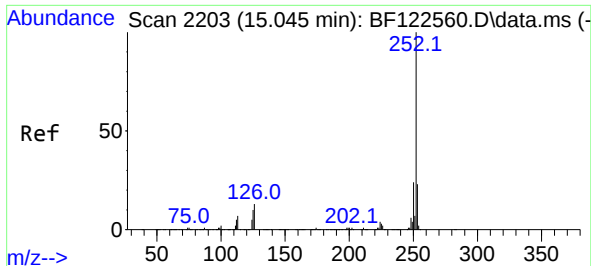


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 24.66 ng  
RT: 16.933 min Scan# 2524  
Delta R.T. 0.041 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32

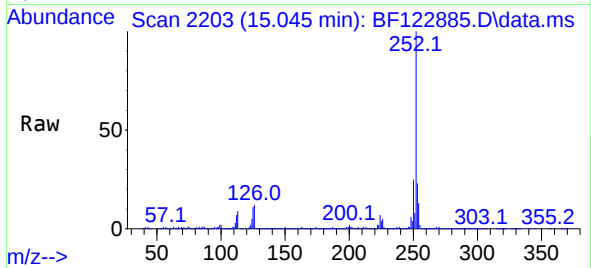


Tgt Ion:276 Resp: 619626  
Ion Ratio Lower Upper  
276 100  
138 19.2 18.7 28.1  
277 24.2 20.2 30.4

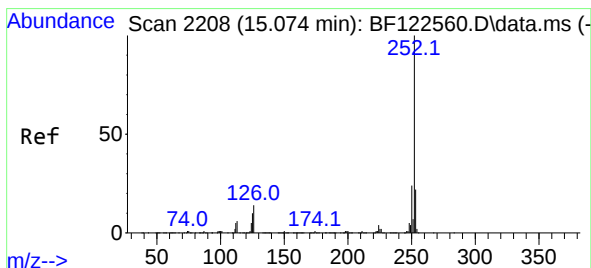
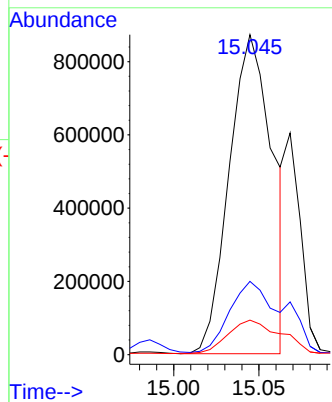
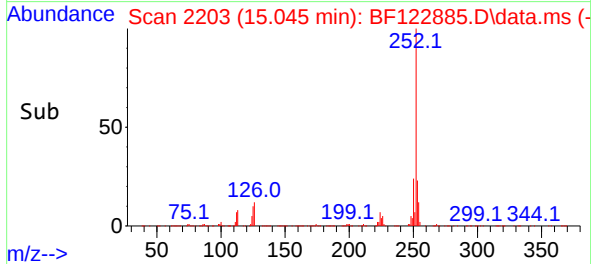




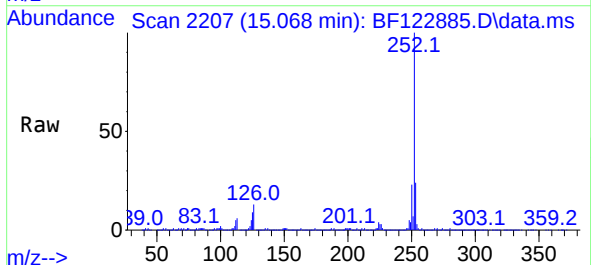
#88  
Benzo(b)fluoranthene  
Concen: 57.13 ng m  
RT: 15.045 min Scan# 2203  
Delta R.T. 0.023 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



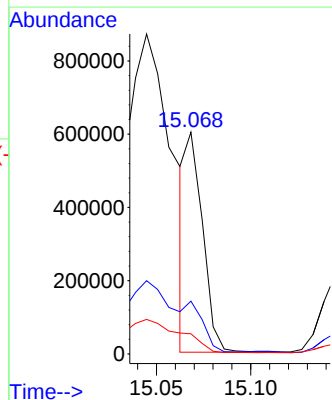
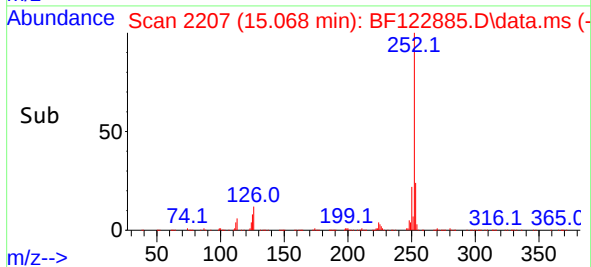
Tgt Ion:252 Resp: 1534250  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.3 27.5  
125 10.8 8.1 12.1



#89  
Benzo(k)fluoranthene  
Concen: 15.08 ng m  
RT: 15.068 min Scan# 2207  
Delta R.T. 0.017 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



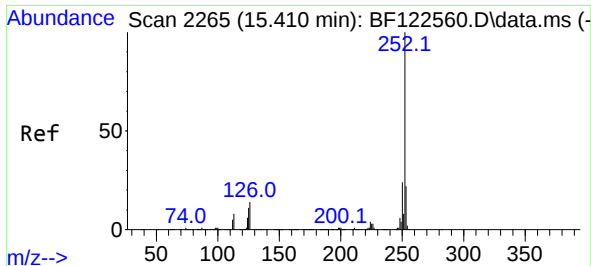
Tgt Ion:252 Resp: 370244  
Ion Ratio Lower Upper  
252 100  
253 23.8 17.8 26.8  
125 9.1 8.4 12.6



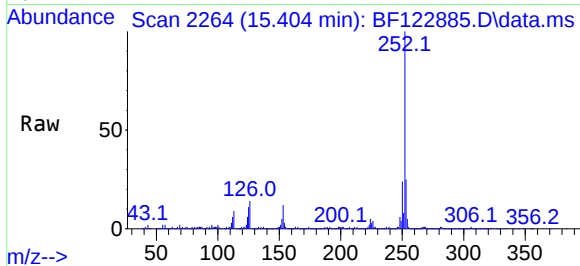
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

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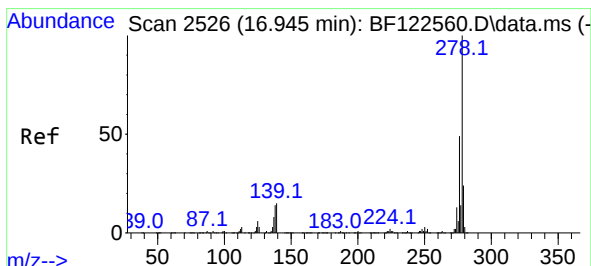
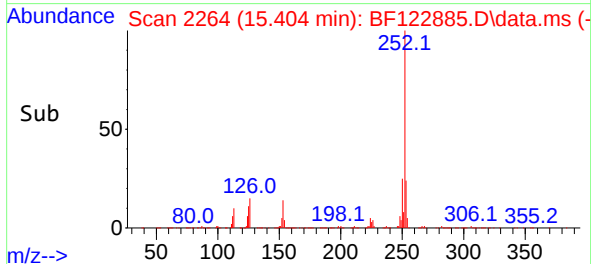
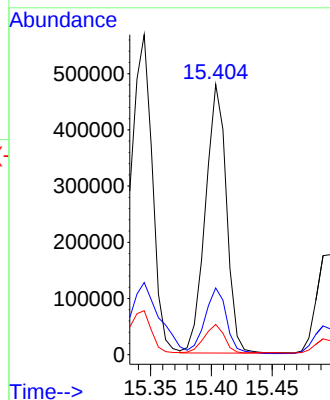
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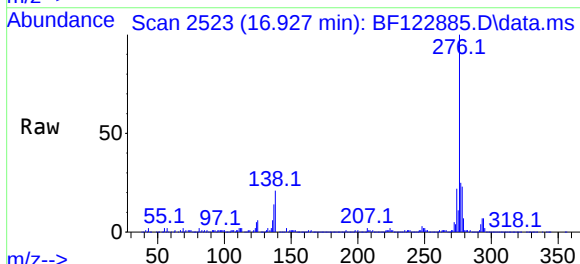
#90  
Benzo(a)pyrene  
Concen: 24.52 ng  
RT: 15.404 min Scan# 2264  
Delta R.T. 0.023 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



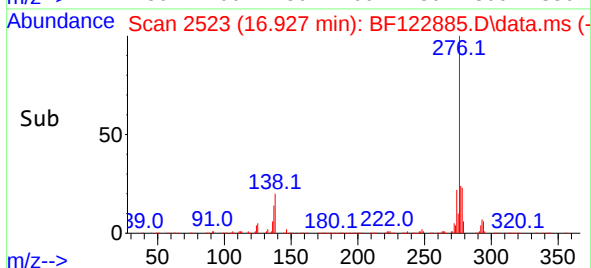
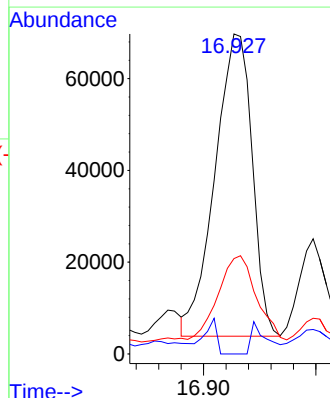
Tgt Ion:252 Resp: 576070  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.5 26.3  
125 11.2 8.6 12.8



#91  
Dibenzo(a,h)anthracene  
Concen: 7.36 ng m  
RT: 16.927 min Scan# 2523  
Delta R.T. 0.023 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



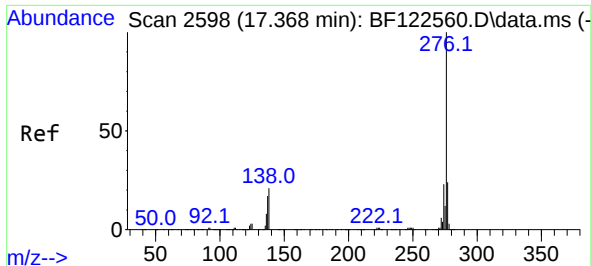
Tgt Ion:278 Resp: 151284  
Ion Ratio Lower Upper  
278 100  
139 0.0 12.0 18.0#  
279 29.8 19.4 29.2#



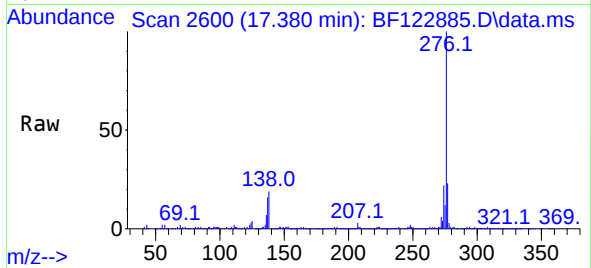
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

Manual Integrations  
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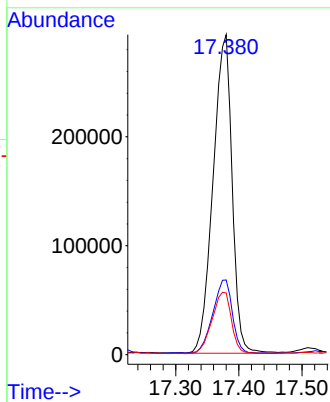
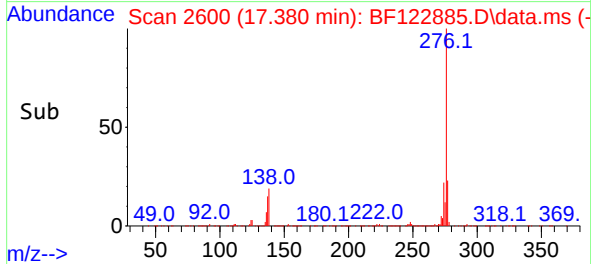
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#92  
Benzo(g,h,i)perylene  
Concen: 30.69 ng  
RT: 17.380 min Scan# 2600  
Delta R.T. 0.053 min  
Lab File: BF122885.D  
Acq: 30 Dec 2020 18:32



Tgt Ion: 276 Resp: 610675  
Ion Ratio Lower Upper  
276 100  
277 23.4 19.3 28.9  
138 19.3 16.6 24.8



Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-6(444+26)

Manual Integrations  
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