

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
 Data File : BF122884.D  
 Acq On : 30 Dec 2020 18:01  
 Operator : JU/CG  
 Sample : L5242-09  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-5(454+26)

Manual Integrations  
 APPROVED

mohammad  
 12/31/2020 10:45:18 AM

Quant Time: Dec 31 00:54:09 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  | 113056   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.104  | 136  | 412597   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.857  | 164  | 208524   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.345 | 188  | 346693   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12              | 13.998 | 240  | 308662   | 20.00  | ng    | 0.01     |
| 86) Perylene-d12              | 15.468 | 264  | 377703   | 20.00  | ng    | 0.03     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.446  | 112  | 521071   | 72.97  | ng    | 0.01     |
| 7) Phenol-d6                  | 6.457  | 99   | 603741   | 63.75  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.381  | 82   | 369884   | 44.92  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.651 | 330  | 176202   | 64.55  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.181  | 172  | 720084   | 46.71  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.933 | 244  | 727312   | 41.25  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 49) Acenaphthylene            | 9.722  | 152  | 184944   | 8.73   | ng    | 98       |
| 50) Dimethylphthalate         | 9.575  | 163  | 41996    | 2.52   | ng    | 99       |
| 52) Acenaphthene              | 9.886  | 154  | 69644    | 5.08   | ng    | 99       |
| 55) Dibenzofuran              | 10.063 | 168  | 67654    | 3.51   | ng    | 91       |
| 58) Fluorene                  | 10.404 | 166  | 82970    | 5.41   | ng    | 99       |
| 71) Phenanthrene              | 11.375 | 178  | 907828   | 44.06  | ng    | 99       |
| 72) Anthracene                | 11.422 | 178  | 358326   | 17.54  | ng    | 99       |
| 73) Carbazole                 | 11.580 | 167  | 379141   | 20.46  | ng    | 99       |
| 75) Fluoranthene              | 12.575 | 202  | 2889020  | 133.71 | ng    | 99       |
| 78) Pyrene                    | 12.804 | 202  | 2486249  | 104.18 | ng    | 98       |
| 81) Benzo(a)anthracene        | 13.986 | 228  | 967446   | 46.90  | ng    | 96       |
| 83) Chrysene                  | 14.033 | 228  | 1829384  | 89.11  | ng    | 97       |
| 84) Bis(2-ethylhexyl)phtha... | 13.969 | 149  | 116945   | 7.94   | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.933 | 276  | 618157   | 24.93  | ng    | 95       |
| 88) Benzo(b)fluoranthene      | 15.051 | 252  | 2325335m | 87.75  | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.074 | 252  | 650609m  | 26.85  | ng    |          |
| 90) Benzo(a)pyrene            | 15.410 | 252  | 671311   | 28.96  | ng    | 96       |
| 91) Dibenzo(a,h)anthracene    | 16.933 | 278  | 143820m  | 7.09   | ng    |          |
| 92) Benzo(g,h,i)perylene      | 17.374 | 276  | 527215   | 26.85  | ng    | 99       |
| -----                         |        |      |          |        |       |          |

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

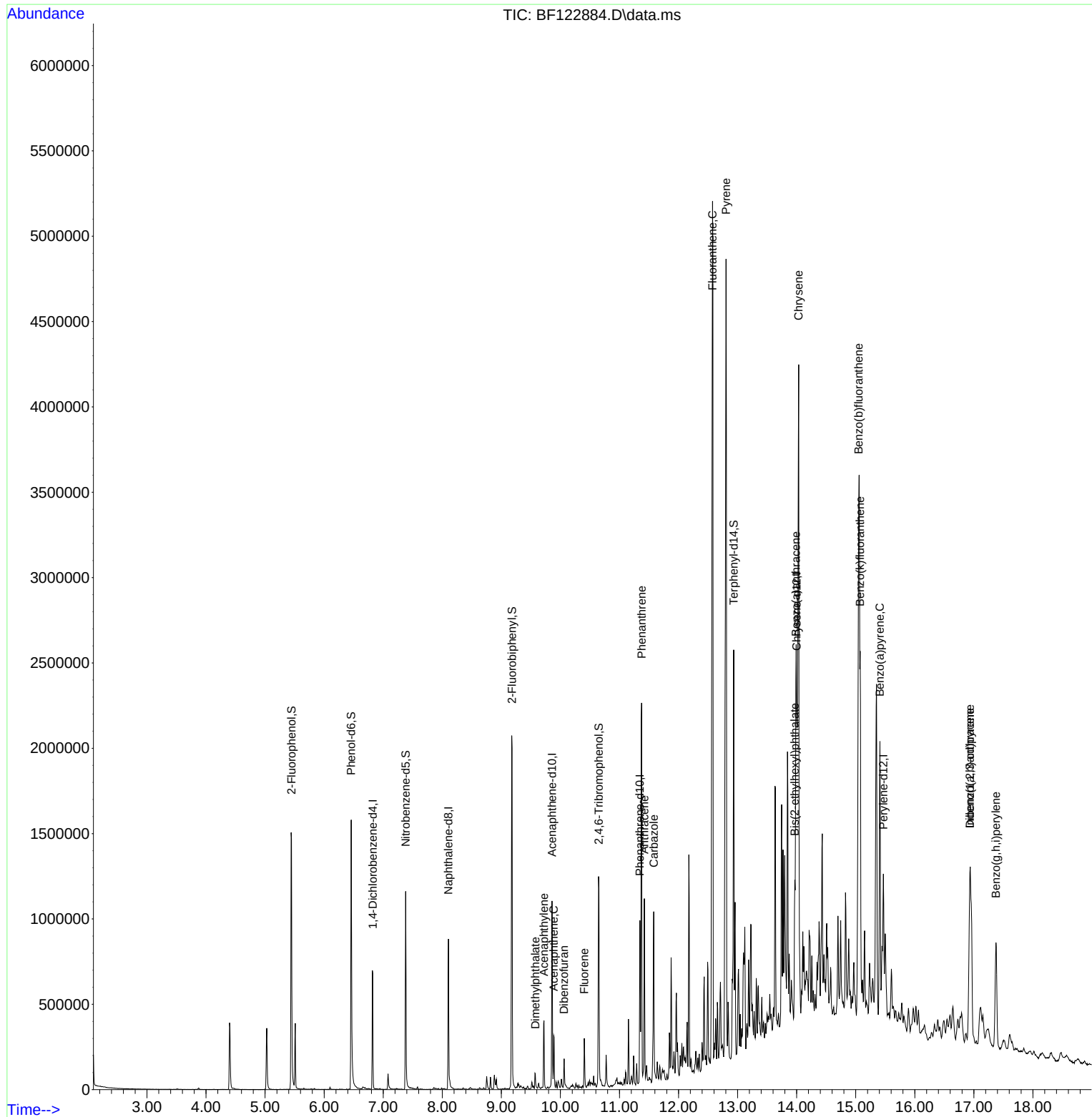
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF123020\  
Data File : BF122884.D  
Acq On : 30 Dec 2020 18:01  
Operator : JU/CG  
Sample : L5242-09  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

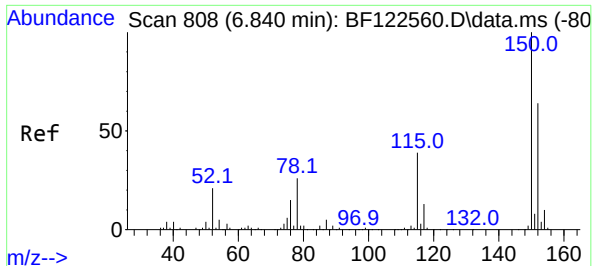
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

Manual Integrations  
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Quant Time: Dec 31 00:54:09 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





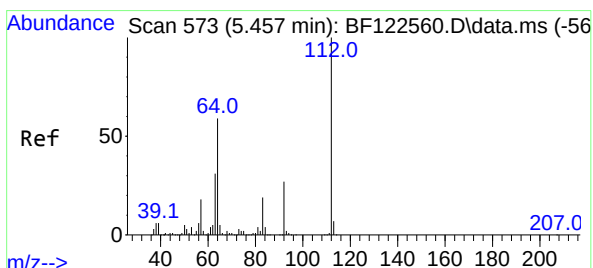
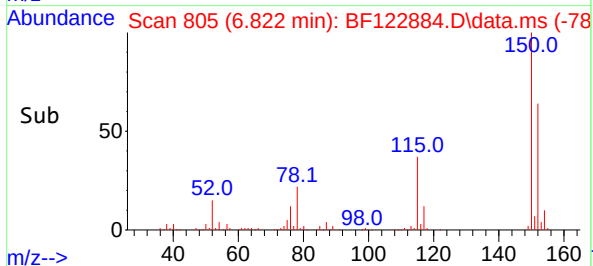
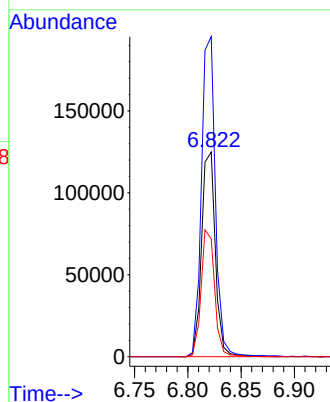
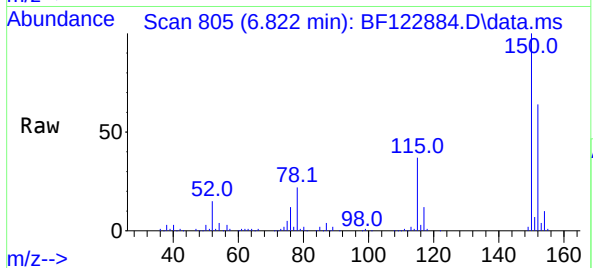
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.822 min Scan# 805  
Delta R.T. -0.000 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion:152 Resp: 113056  
Ion Ratio Lower Upper  
152 100  
150 156.3 125.8 188.6  
115 57.5 49.3 73.9

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

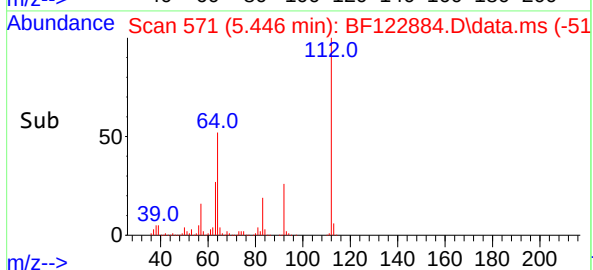
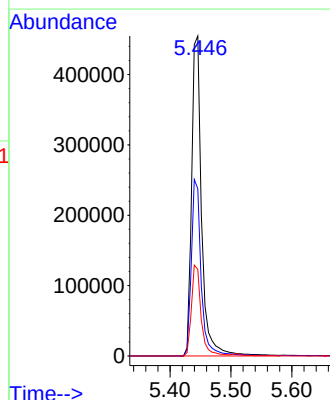
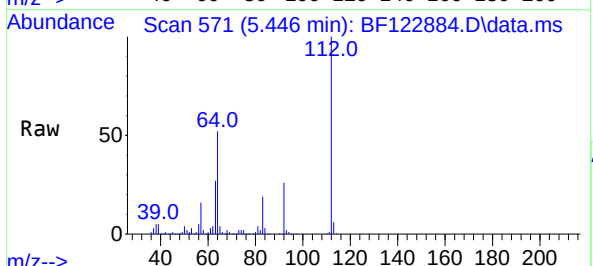
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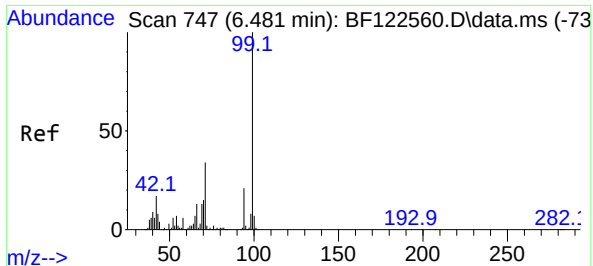
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#5  
2-Fluorophenol  
Concen: 72.97 ng  
RT: 5.446 min Scan# 571  
Delta R.T. 0.012 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion:112 Resp: 521071  
Ion Ratio Lower Upper  
112 100  
64 52.2 46.9 70.3  
63 27.0 24.5 36.7





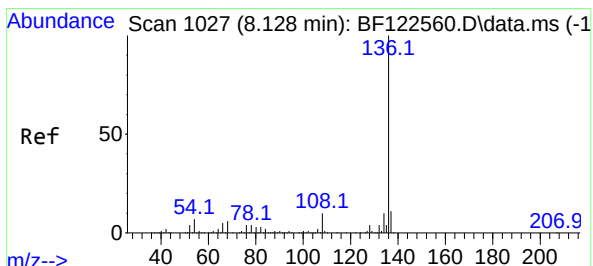
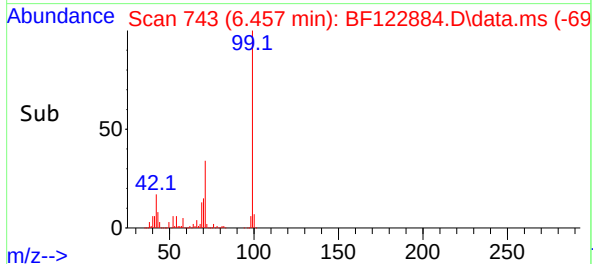
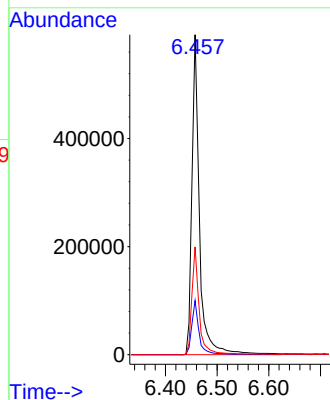
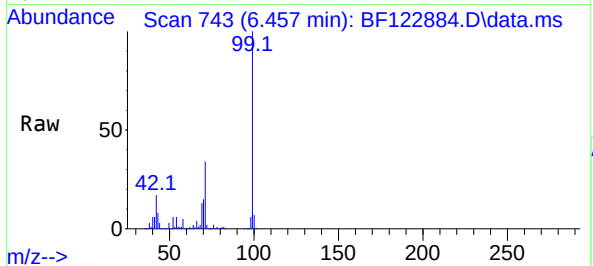
#7  
Phenol-d6  
Concen: 63.75 ng  
RT: 6.457 min Scan# 743  
Delta R.T. -0.000 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 603741 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 16.9  | 13.8  | 20.6   |
| 71       | 33.7  | 26.9  | 40.3   |

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

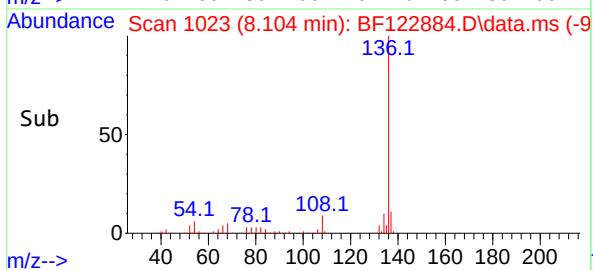
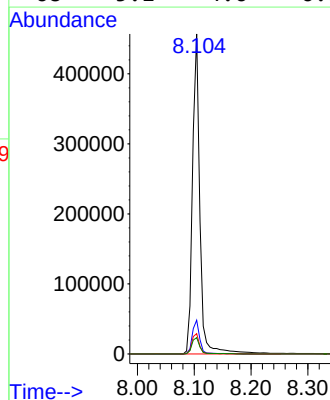
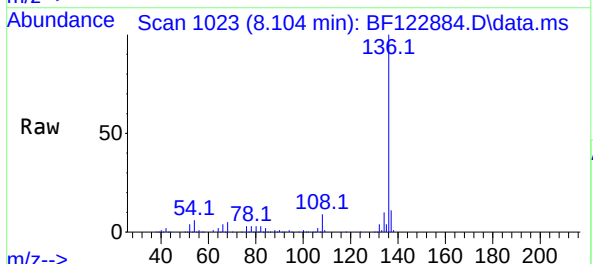
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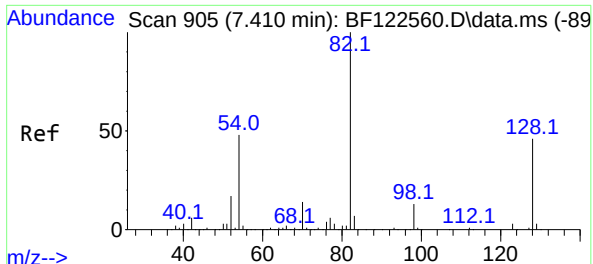
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#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.104 min Scan# 1023  
Delta R.T. -0.006 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 412597 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 8.8   | 13.2   |
| 54       | 6.3   | 5.5   | 8.3    |
| 68       | 5.1   | 4.6   | 6.8    |





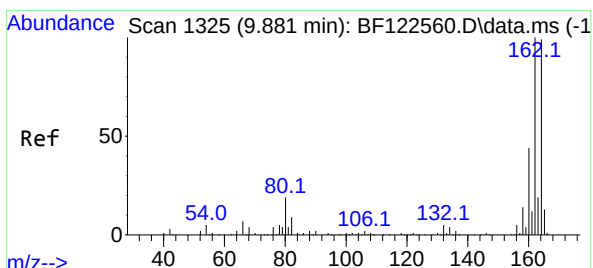
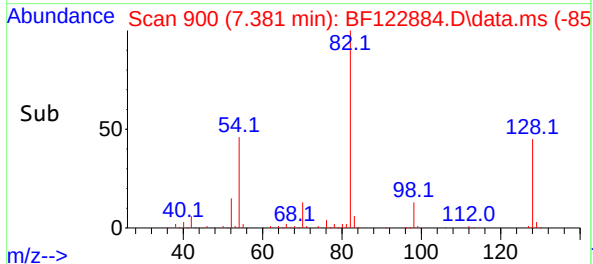
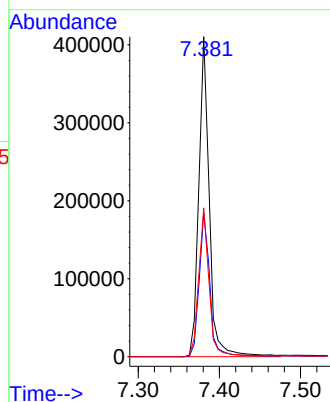
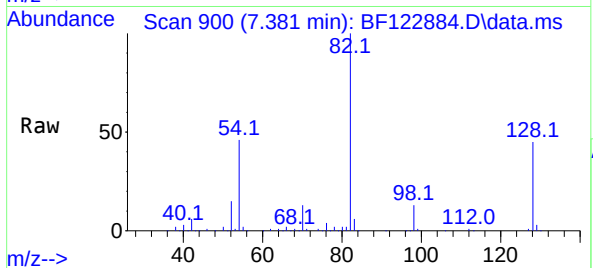
#23  
Nitrobenzene-d5  
Concen: 44.92 ng  
RT: 7.381 min Scan# 900  
Delta R.T. -0.012 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion: 82 Resp: 369884  
Ion Ratio Lower Upper  
82 100  
128 45.0 37.0 55.4  
54 46.5 38.4 57.6

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

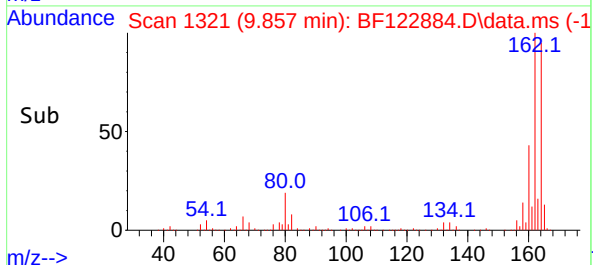
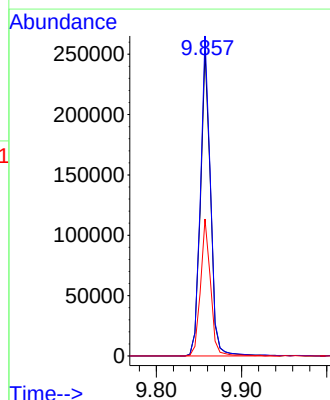
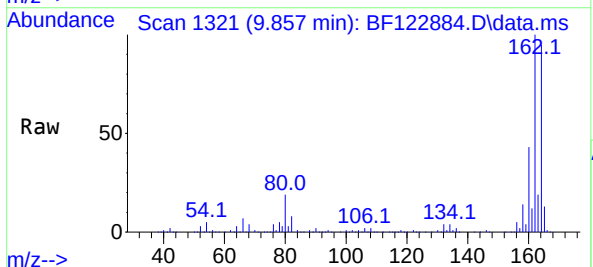
Manual Integrations  
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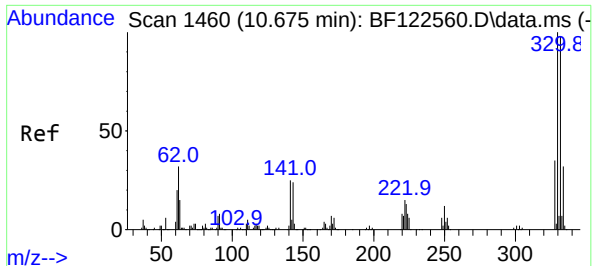
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#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.857 min Scan# 1321  
Delta R.T. -0.006 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

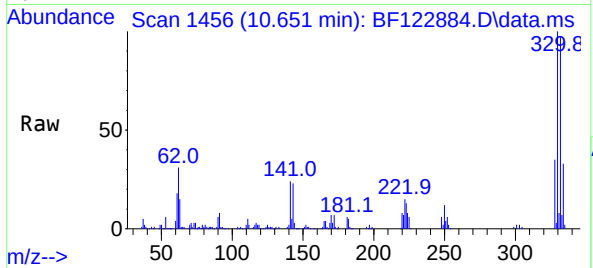
Tgt Ion: 164 Resp: 208524  
Ion Ratio Lower Upper  
164 100  
162 104.9 80.8 121.2  
160 44.9 35.4 53.0





#42  
2,4,6-Tribromophenol  
Concen: 64.55 ng  
RT: 10.651 min Scan# 1456  
Delta R.T. -0.000 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

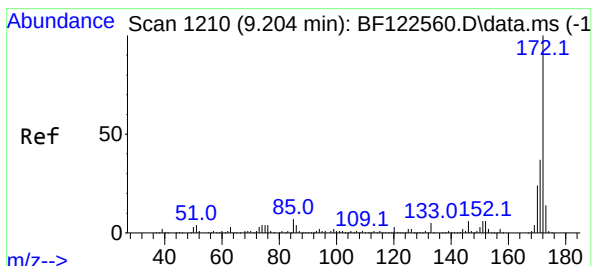
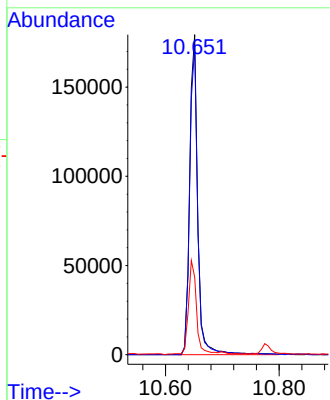
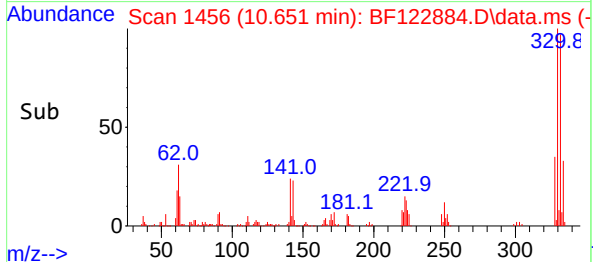
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)



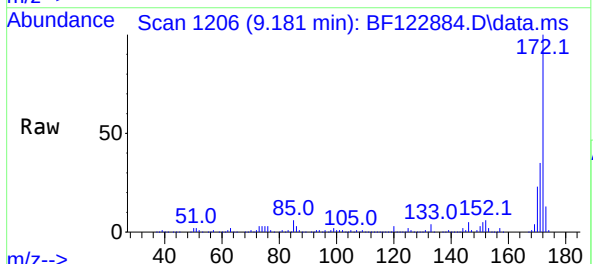
Tgt Ion: 330 Resp: 176202  
Ion Ratio Lower Upper  
330 100  
332 95.8 77.5 116.3  
141 29.8 23.8 35.8

Manual Integrations  
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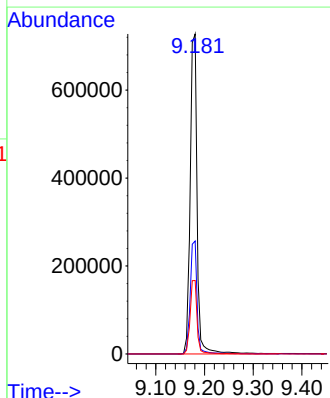
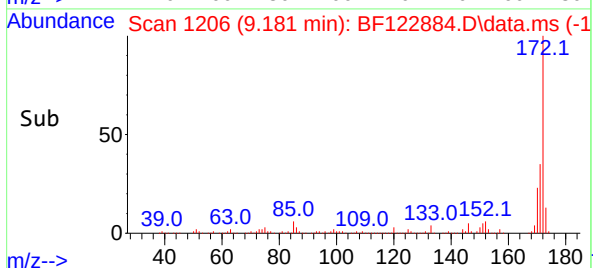
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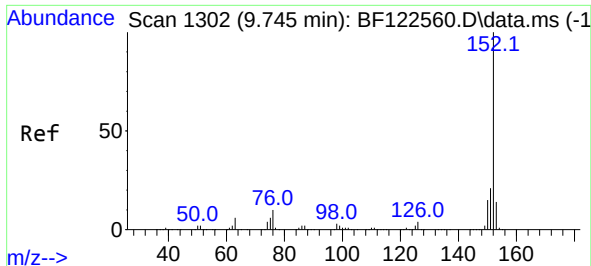


#45  
2-Fluorobiphenyl  
Concen: 46.71 ng  
RT: 9.181 min Scan# 1206  
Delta R.T. -0.006 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



Tgt Ion: 172 Resp: 720084  
Ion Ratio Lower Upper  
172 100  
171 35.3 29.6 44.4  
170 23.0 19.5 29.3





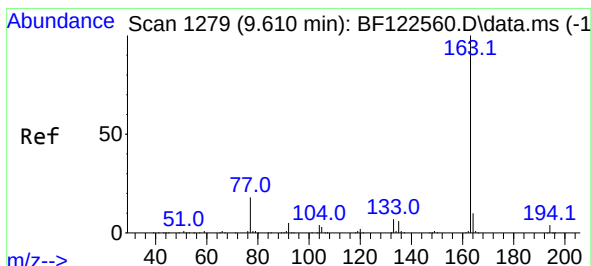
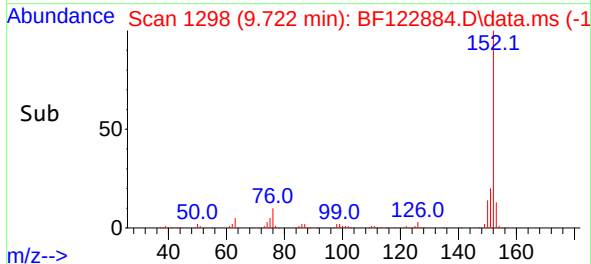
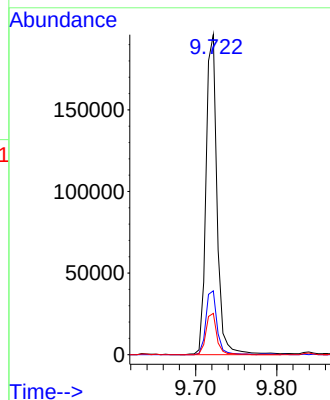
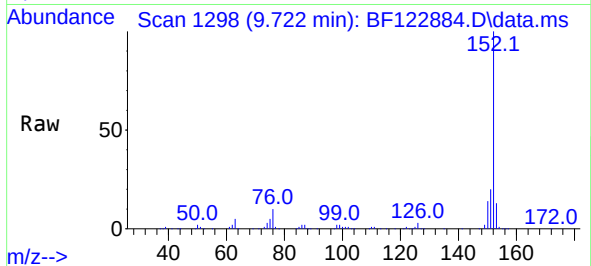
#49  
Acenaphthylene  
Concen: 8.73 ng  
RT: 9.722 min Scan# 1298  
Delta R.T. -0.000 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion:152 Resp: 184944  
Ion Ratio Lower Upper  
152 100  
151 19.9 16.6 25.0  
153 12.9 10.9 16.3

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

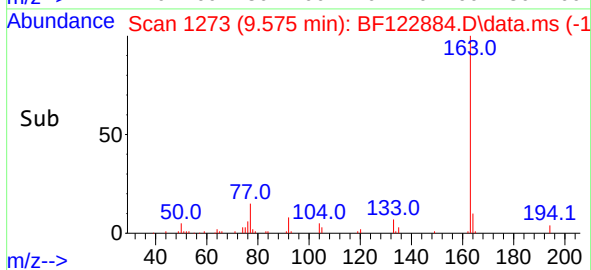
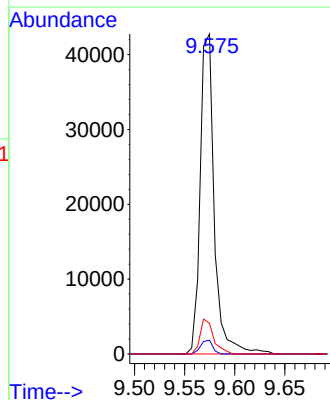
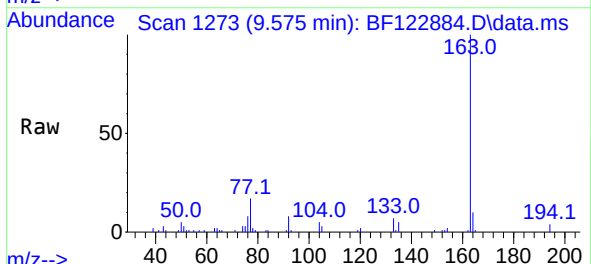
Manual Integrations  
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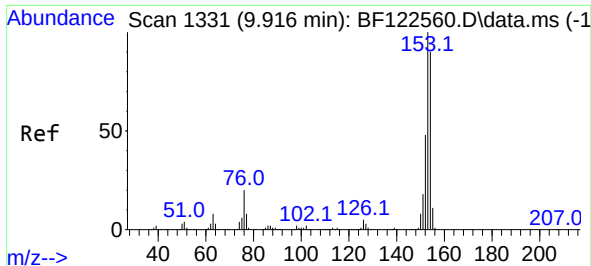
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#50  
Dimethylphthalate  
Concen: 2.52 ng  
RT: 9.575 min Scan# 1273  
Delta R.T. -0.012 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

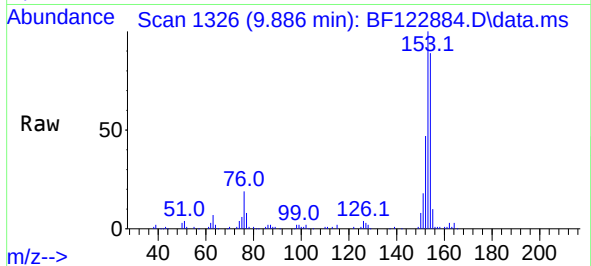
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Ion Ratio Lower Upper  
163 100  
194 4.3 3.4 5.0  
164 9.6 8.1 12.1





#52  
Acenaphthene  
Concen: 5.08 ng  
RT: 9.886 min Scan# 1326  
Delta R.T. -0.012 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

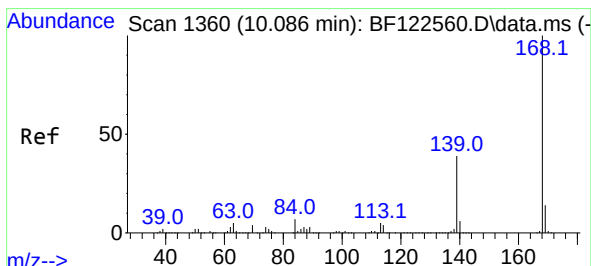
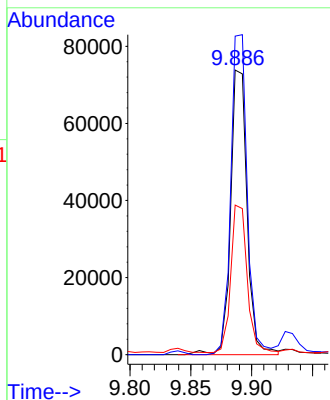
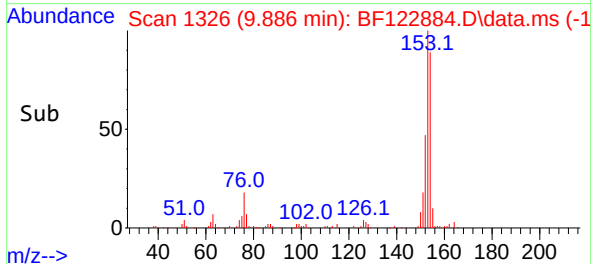
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)



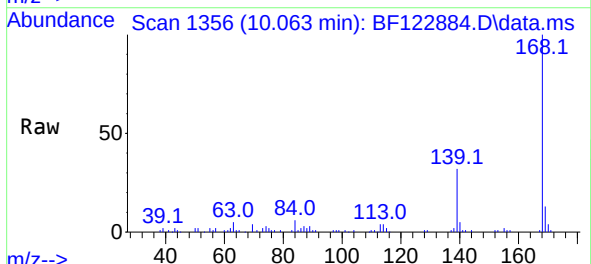
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Manual Integrations  
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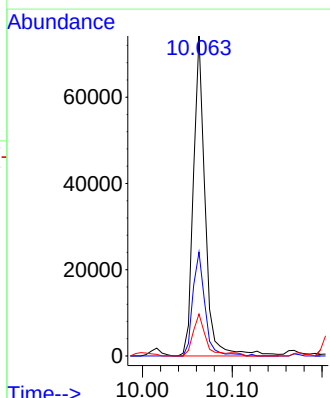
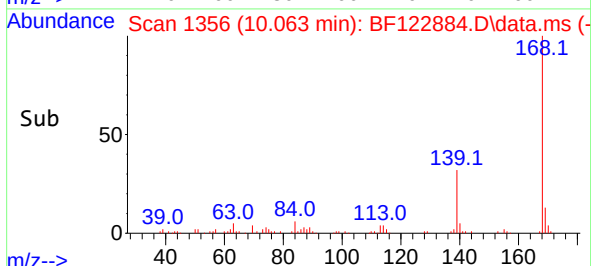
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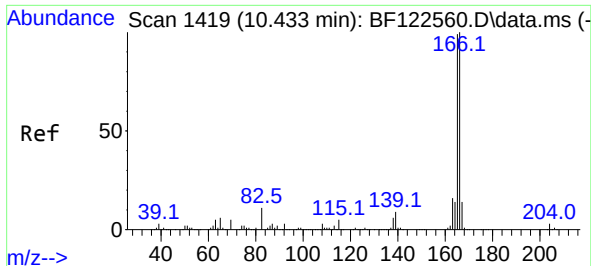
#55  
Dibenzofuran  
Concen: 3.51 ng  
RT: 10.063 min Scan# 1356  
Delta R.T. -0.006 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



Tgt Ion:168 Resp: 67654  
Ion Ratio Lower Upper  
168 100  
139 32.5 31.3 46.9  
169 13.1 11.2 16.8

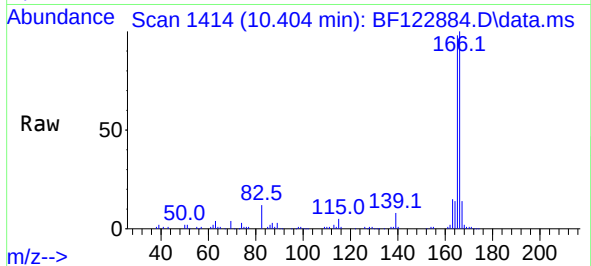






#58  
Fluorene  
Concen: 5.41 ng  
RT: 10.404 min Scan# 1414  
Delta R.T. -0.006 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

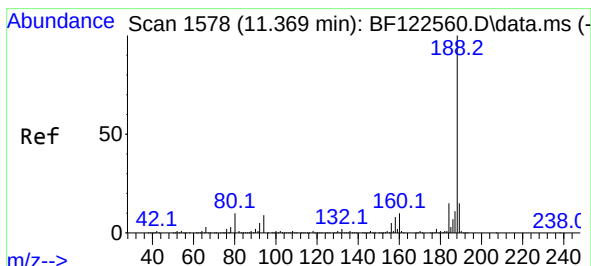
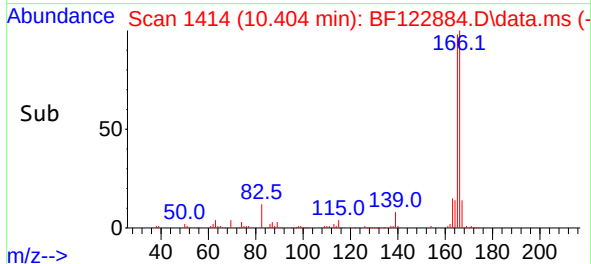
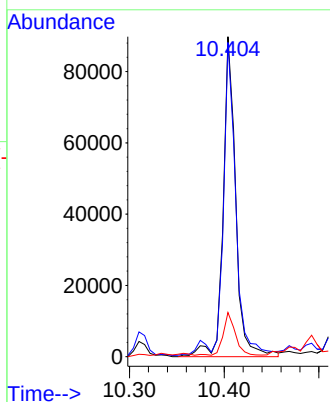
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)



Tgt Ion:166 Resp: 82970  
Ion Ratio Lower Upper  
166 100  
165 98.2 79.4 119.0  
167 13.8 10.9 16.3

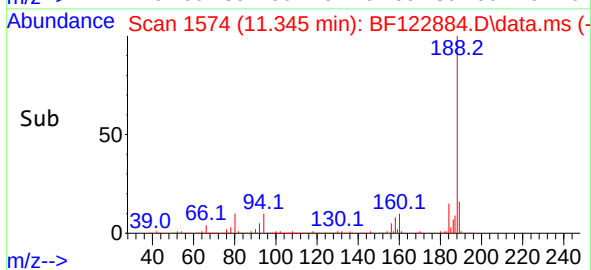
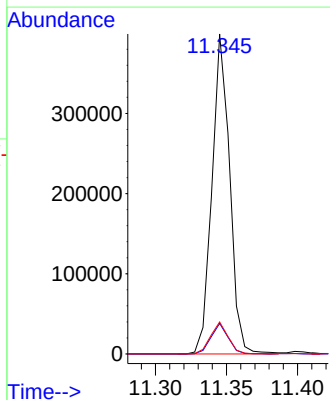
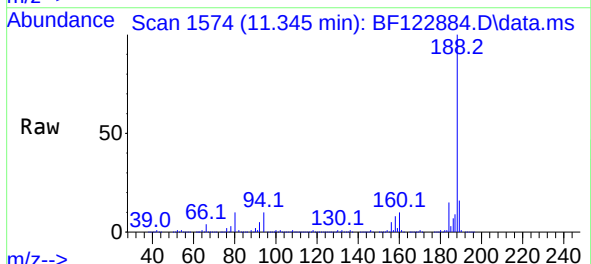
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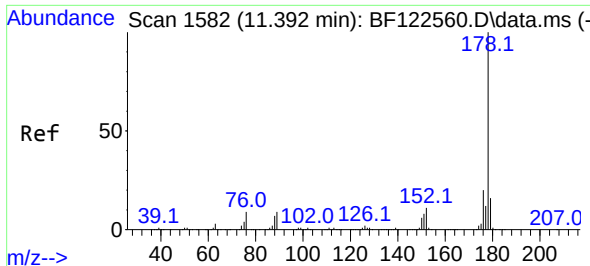
mohammad  
12/31/2020 10:45:18 AM



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.345 min Scan# 1574  
Delta R.T. -0.000 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

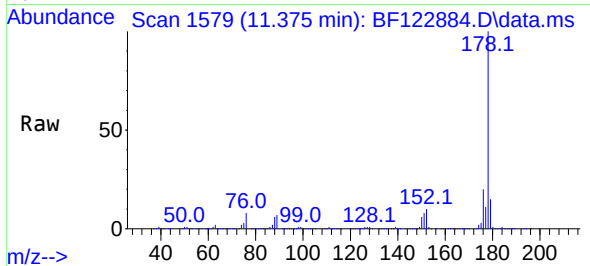
Tgt Ion:188 Resp: 346693  
Ion Ratio Lower Upper  
188 100  
94 9.5 7.4 11.2  
80 10.0 8.2 12.4





#71  
Phenanthrene  
Concen: 44.06 ng  
RT: 11.375 min Scan# 1579  
Delta R.T. 0.006 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

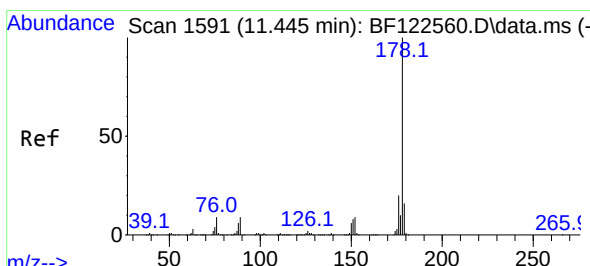
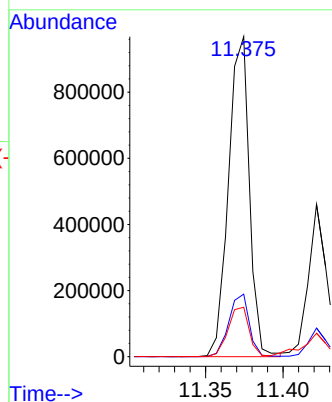
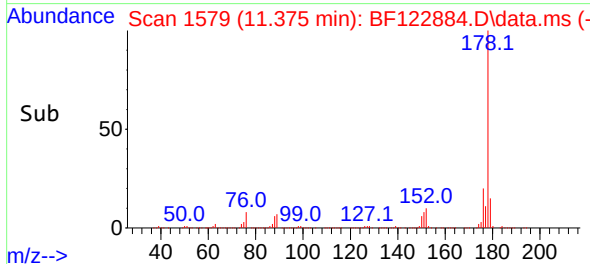
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)



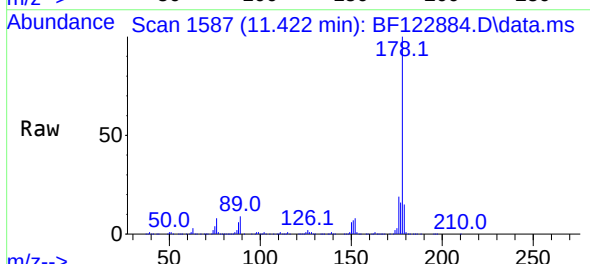
Tgt Ion:178 Resp: 907828  
Ion Ratio Lower Upper  
178 100  
176 19.5 16.2 24.2  
179 15.5 12.7 19.1

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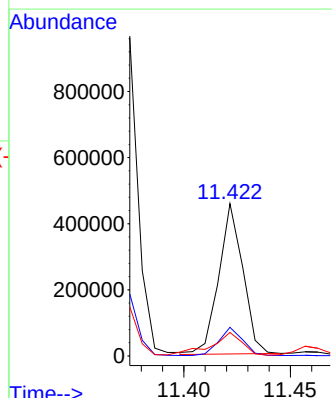
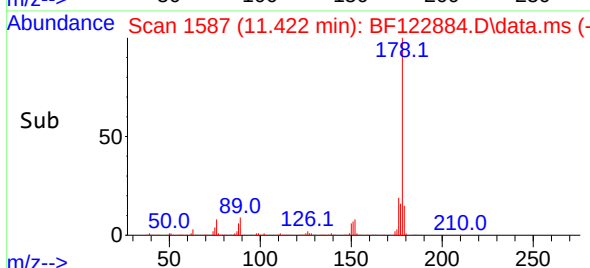
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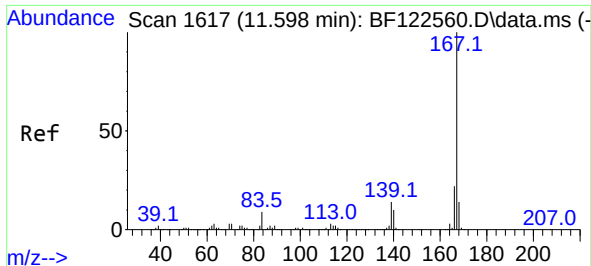


#72  
Anthracene  
Concen: 17.54 ng  
RT: 11.422 min Scan# 1587  
Delta R.T. -0.000 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



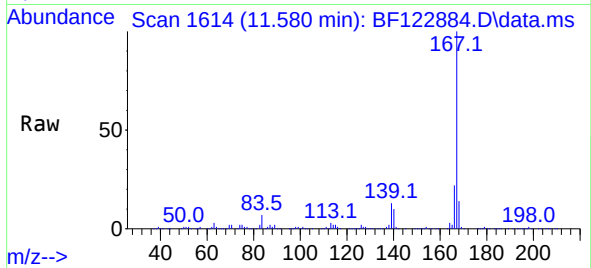
Tgt Ion:178 Resp: 358326  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.6 23.4  
179 15.5 12.8 19.2





#73  
 Carbazole  
 Concen: 20.46 ng  
 RT: 11.580 min Scan# 1614  
 Delta R.T. 0.006 min  
 Lab File: BF122884.D  
 Acq: 30 Dec 2020 18:01

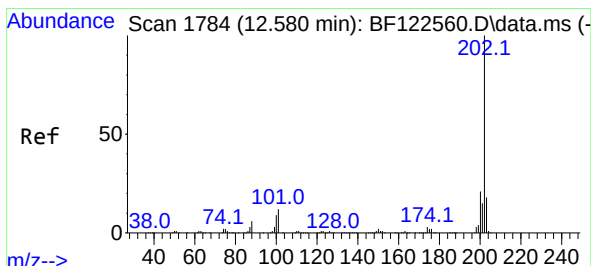
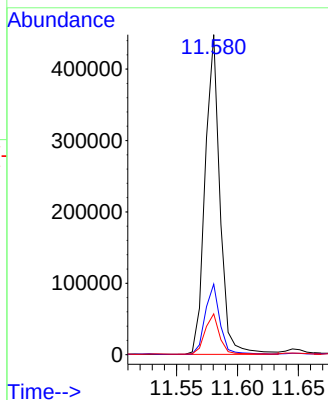
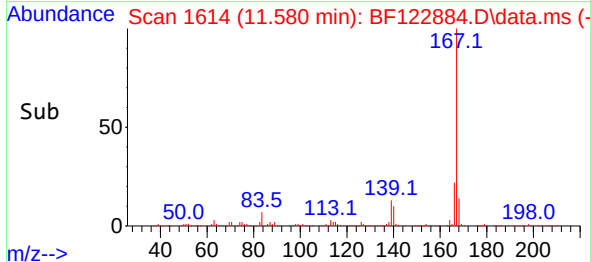
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SAMPLE-5(454+26)



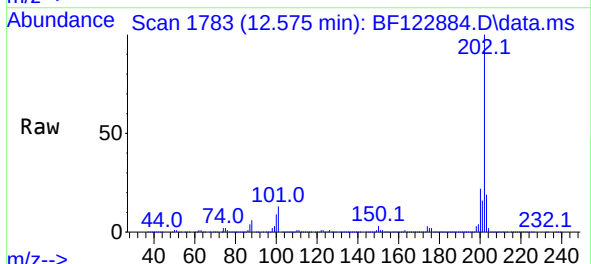
Tgt Ion:167 Resp: 379141  
 Ion Ratio Lower Upper  
 167 100  
 166 22.0 18.0 27.0  
 139 12.8 10.9 16.3

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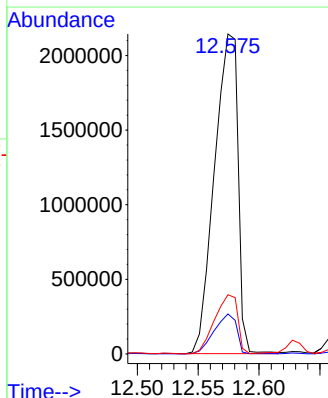
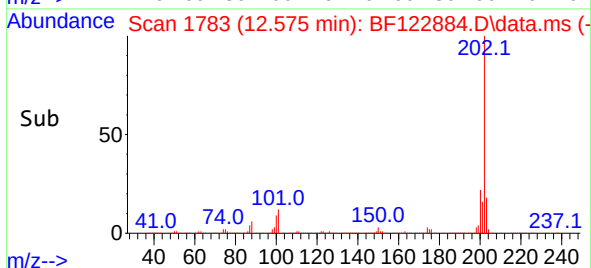
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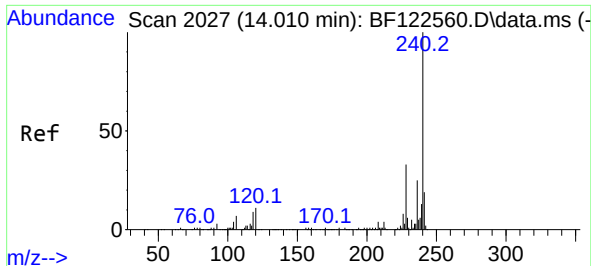


#75  
 Fluoranthene  
 Concen: 133.71 ng  
 RT: 12.575 min Scan# 1783  
 Delta R.T. 0.018 min  
 Lab File: BF122884.D  
 Acq: 30 Dec 2020 18:01

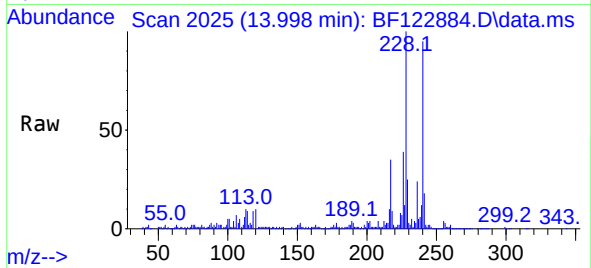


Tgt Ion:202 Resp: 2889020  
 Ion Ratio Lower Upper  
 202 100  
 101 12.5 0.0 32.2  
 203 18.5 0.0 38.1

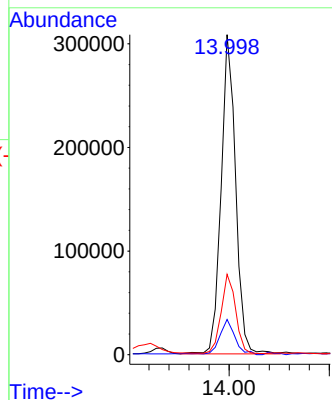




#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. 0.012 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



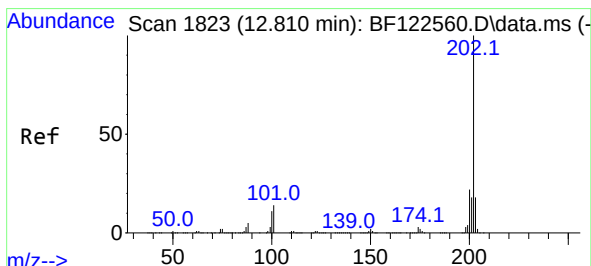
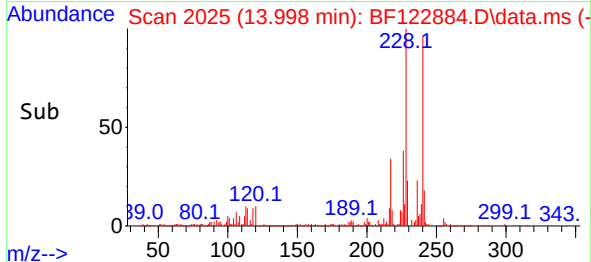
Tgt Ion:240 Resp: 308662  
Ion Ratio Lower Upper  
240 100  
120 11.0 8.6 12.8  
236 25.1 20.3 30.5



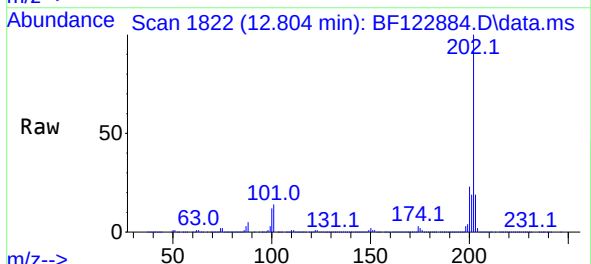
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

Manual Integrations  
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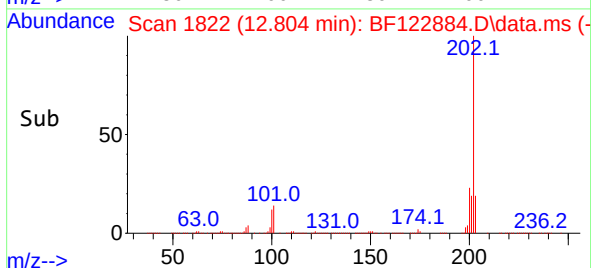
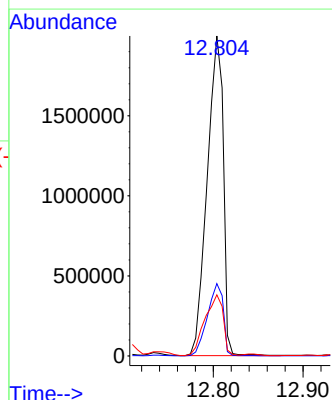
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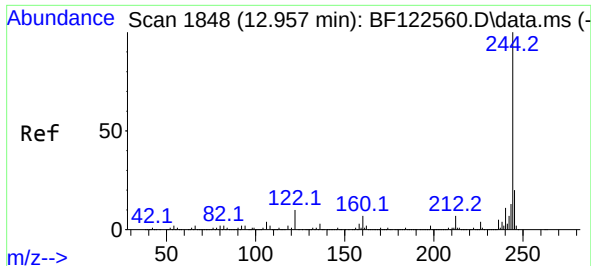


#78  
Pyrene  
Concen: 104.18 ng  
RT: 12.804 min Scan# 1822  
Delta R.T. 0.018 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



Tgt Ion:202 Resp: 2486249  
Ion Ratio Lower Upper  
202 100  
200 22.6 17.6 26.4  
203 19.1 14.6 21.8





#79  
Terphenyl-d14  
Concen: 41.25 ng  
RT: 12.933 min Scan# 1844  
Delta R.T. -0.000 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

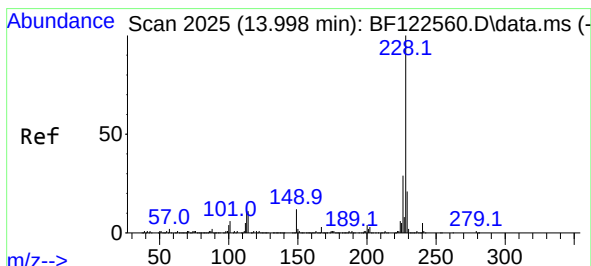
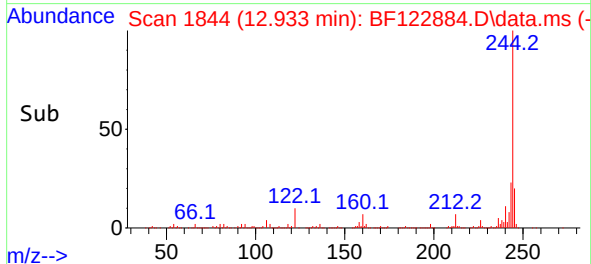
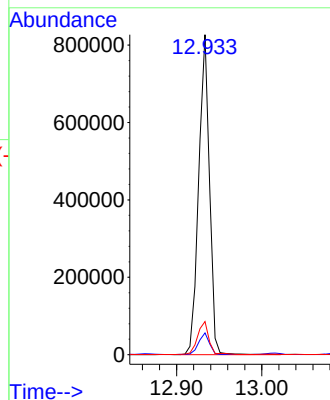
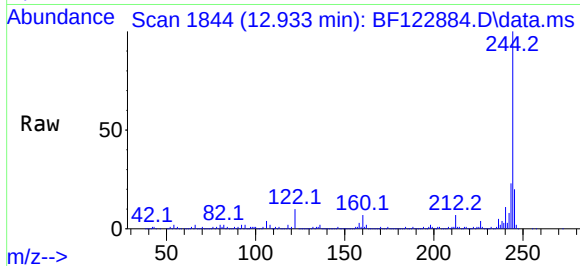
Tgt Ion:244 Resp: 727312

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.8   | 5.7   | 8.5   |
| 122 | 10.4  | 8.3   | 12.5  |

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

Manual Integrations  
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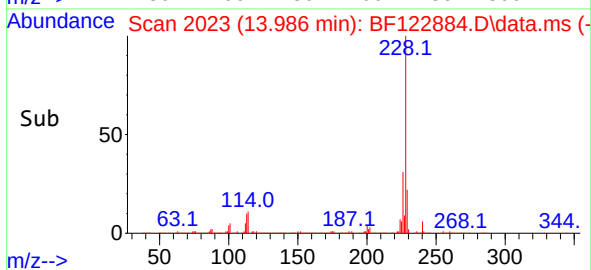
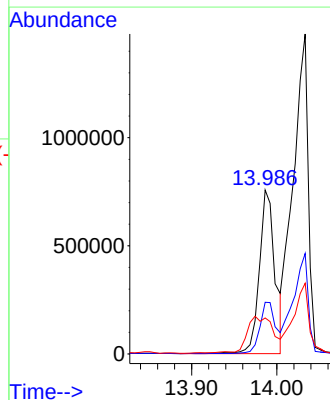
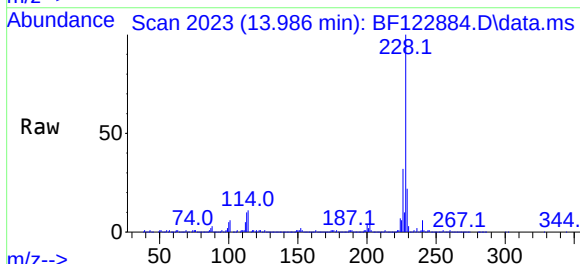
mohammad  
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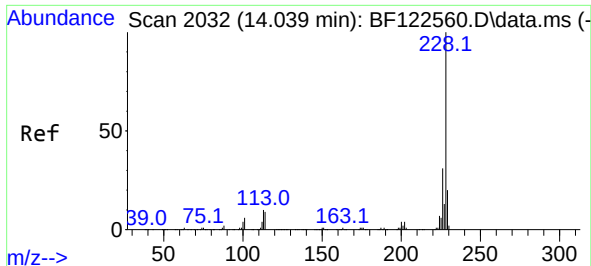


#81  
Benzo(a)anthracene  
Concen: 46.90 ng  
RT: 13.986 min Scan# 2023  
Delta R.T. 0.012 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion:228 Resp: 967446

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 31.5  | 23.0  | 34.4  |
| 229 | 21.9  | 16.6  | 24.8  |





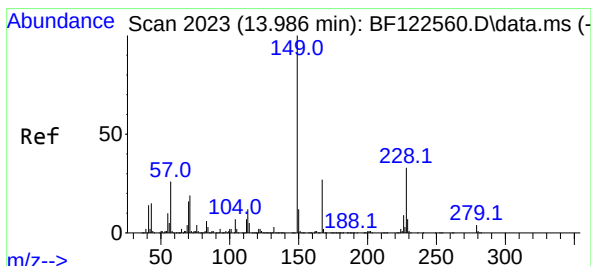
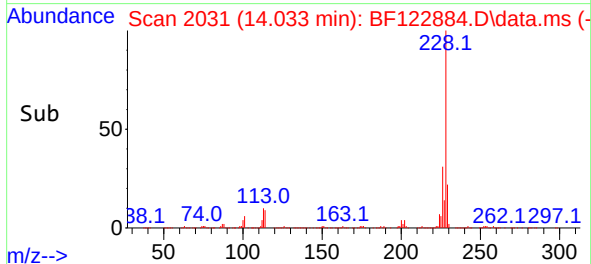
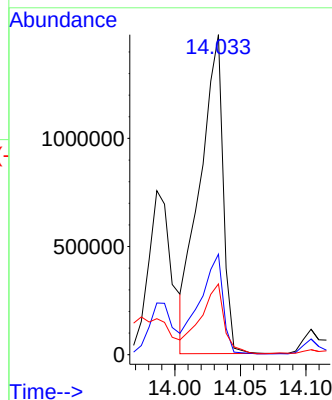
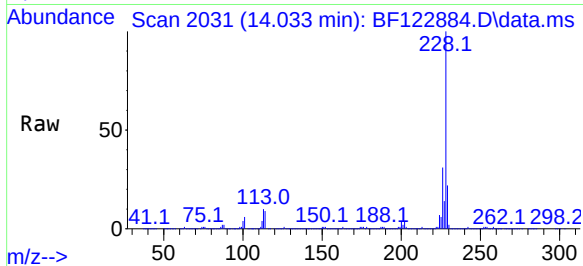
#83  
Chrysene  
Concen: 89.11 ng  
RT: 14.033 min Scan# 2031  
Delta R.T. 0.018 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion:228 Resp: 1829384  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.6 36.8  
229 22.1 15.8 23.6

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

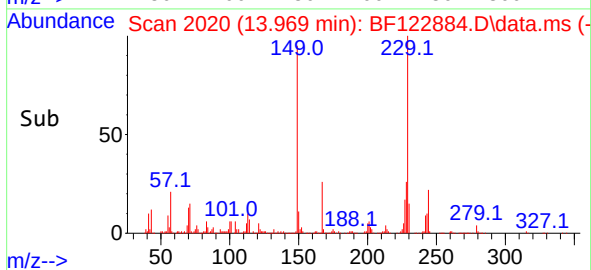
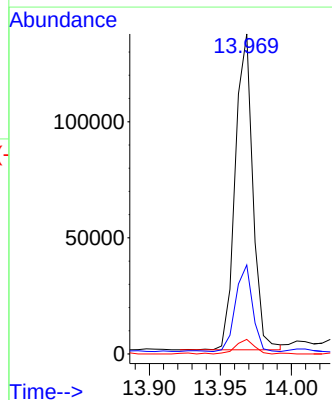
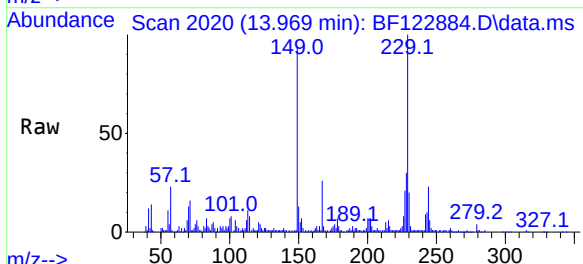
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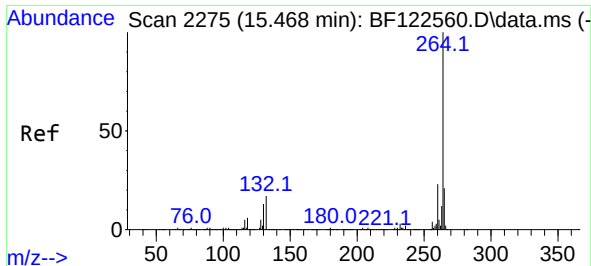
mohammad  
12/31/2020 10:45:18 AM



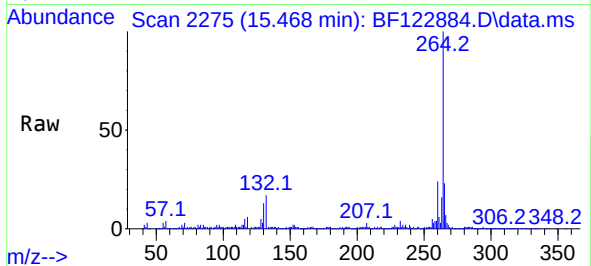
#84  
Bis(2-ethylhexyl)phthalate  
Concen: 7.94 ng  
RT: 13.969 min Scan# 2020  
Delta R.T. 0.006 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion:149 Resp: 116945  
Ion Ratio Lower Upper  
149 100  
167 27.8 21.4 32.2  
279 4.5 3.4 5.0

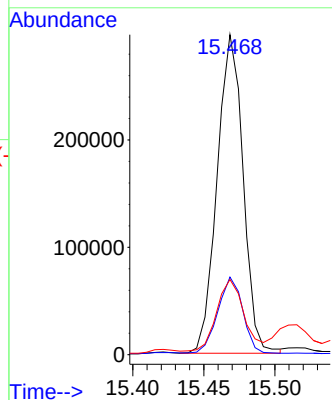




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.468 min Scan# 2275  
Delta R.T. 0.029 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



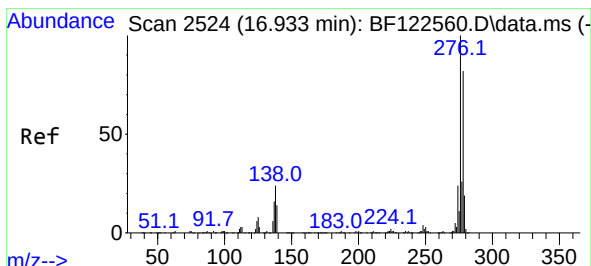
Tgt Ion:264 Resp: 377703  
Ion Ratio Lower Upper  
264 100  
260 24.2 18.6 28.0  
265 23.5 17.0 25.6



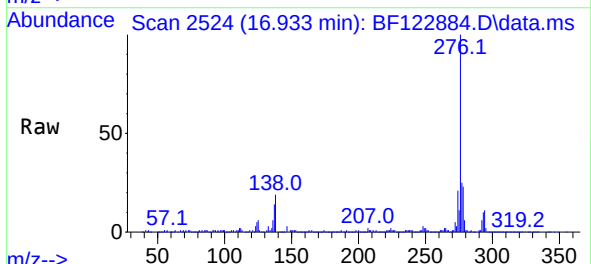
Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

Manual Integrations  
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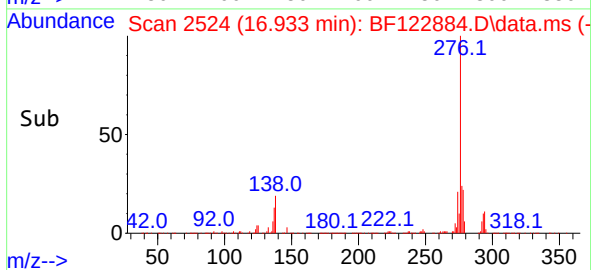
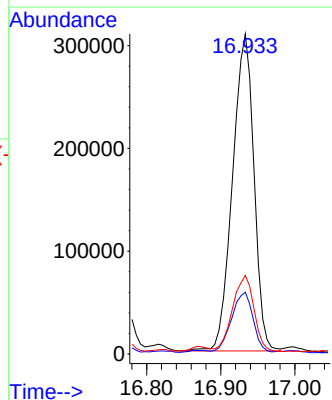
mohammad  
12/31/2020 10:45:18 AM

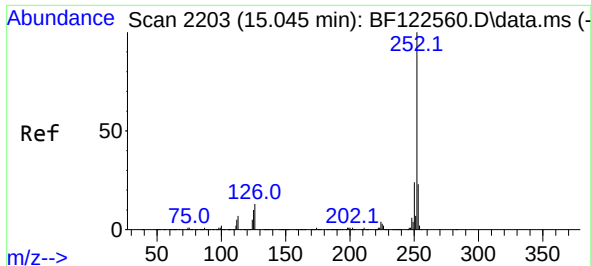


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 24.93 ng  
RT: 16.933 min Scan# 2524  
Delta R.T. 0.041 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

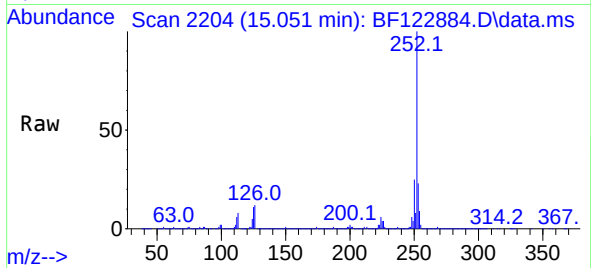


Tgt Ion:276 Resp: 618157  
Ion Ratio Lower Upper  
276 100  
138 19.3 18.7 28.1  
277 23.9 20.2 30.4

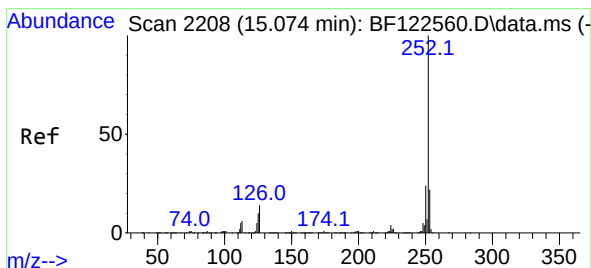
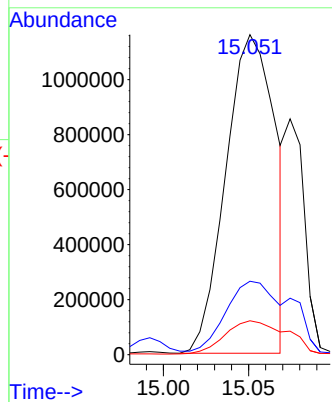
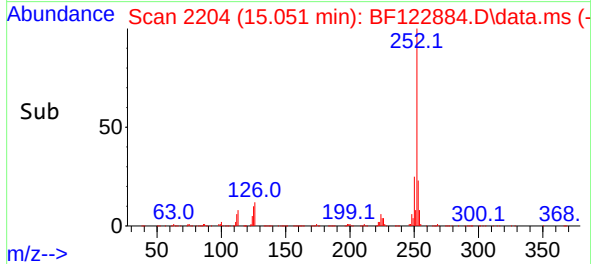




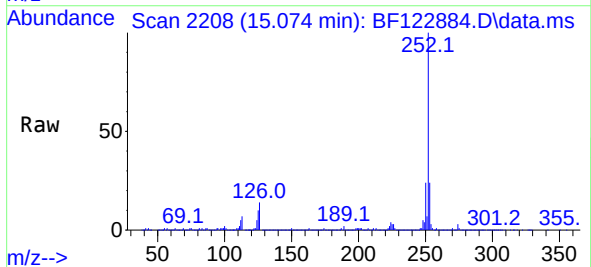
#88  
Benzo(b)fluoranthene  
Concen: 87.75 ng m  
RT: 15.051 min Scan# 2204  
Delta R.T. 0.029 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



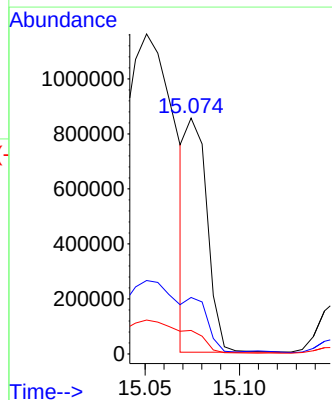
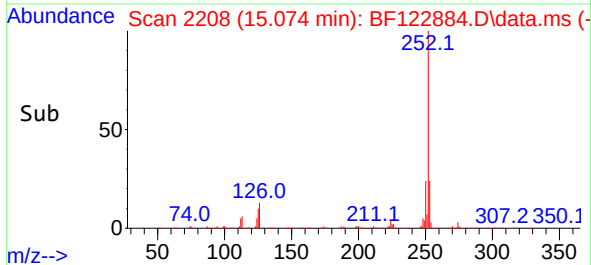
Tgt Ion:252 Resp: 2325335  
Ion Ratio Lower Upper  
252 100  
253 23.0 18.3 27.5  
125 10.6 8.1 12.1



#89  
Benzo(k)fluoranthene  
Concen: 26.85 ng m  
RT: 15.074 min Scan# 2208  
Delta R.T. 0.023 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



Tgt Ion:252 Resp: 650609  
Ion Ratio Lower Upper  
252 100  
253 23.9 17.8 26.8  
125 10.0 8.4 12.6

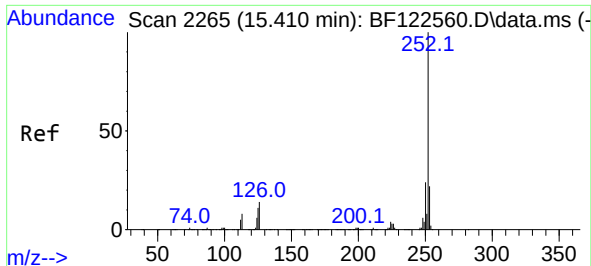


Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

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12/31/2020 10:45:18 AM





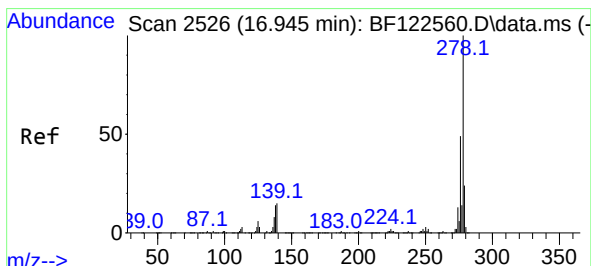
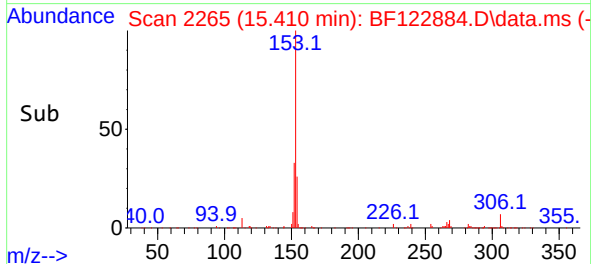
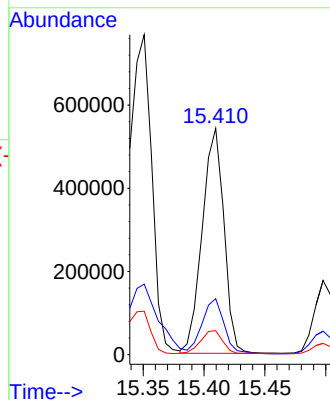
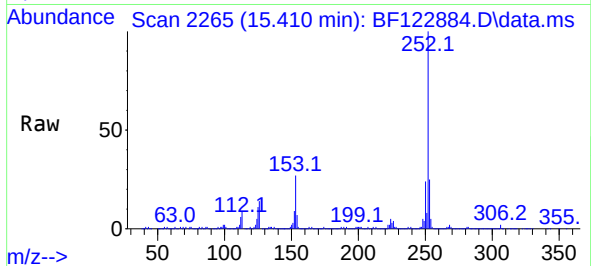
#90  
Benzo(a)pyrene  
Concen: 28.96 ng  
RT: 15.410 min Scan# 2265  
Delta R.T. 0.029 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion:252 Resp: 671311  
Ion Ratio Lower Upper  
252 100  
253 24.7 17.5 26.3  
125 10.6 8.6 12.8

Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

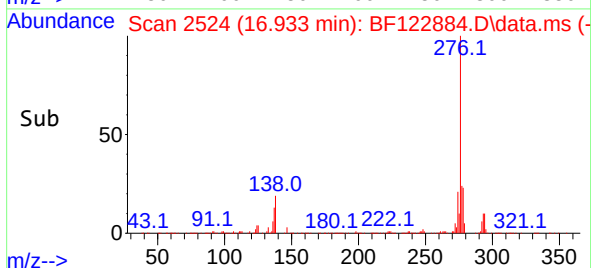
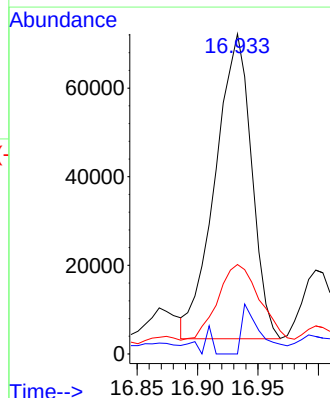
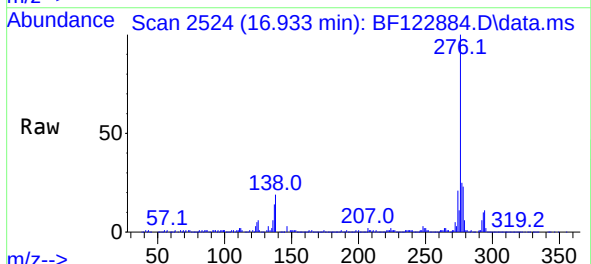
Manual Integrations  
APPROVED

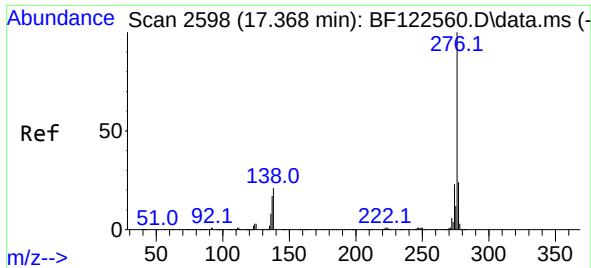
mohammad  
12/31/2020 10:45:18 AM



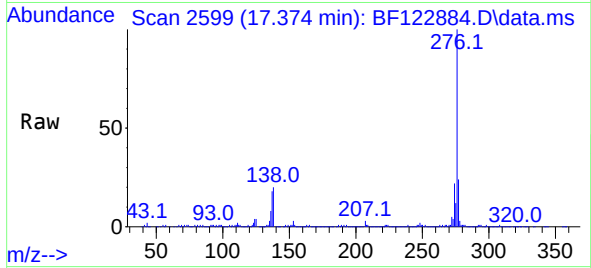
#91  
Dibenzo(a,h)anthracene  
Concen: 7.09 ng m  
RT: 16.933 min Scan# 2524  
Delta R.T. 0.029 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01

Tgt Ion:278 Resp: 143820  
Ion Ratio Lower Upper  
278 100  
139 0.0 12.0 18.0#  
279 27.9 19.4 29.2

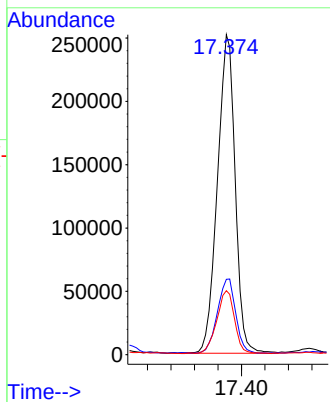
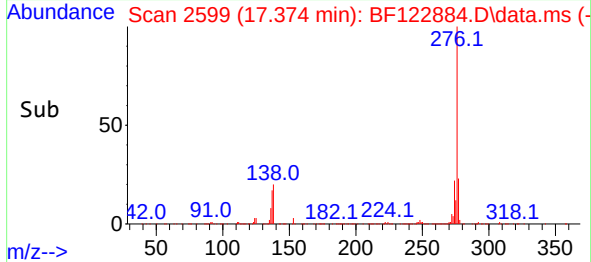




#92  
Benzo(g,h,i)perylene  
Concen: 26.85 ng  
RT: 17.374 min Scan# 2599  
Delta R.T. 0.047 min  
Lab File: BF122884.D  
Acq: 30 Dec 2020 18:01



Tgt Ion: 276 Resp: 527215  
Ion Ratio Lower Upper  
276 100  
277 23.5 19.3 28.9  
138 20.0 16.6 24.8



Instrument :  
BNA\_F  
ClientSampleId :  
SAMPLE-5(454+26)

Manual Integrations  
APPROVED

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12/31/2020 10:45:18 AM