

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF050523\  
 Data File : BF133274.D  
 Acq On : 05 May 2023 20:50  
 Operator : CG\JU  
 Sample : 02616-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-1

Quant Time: May 06 05:51:37 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF042123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 05 10:49:34 2023  
 Response via : Initial Calibration

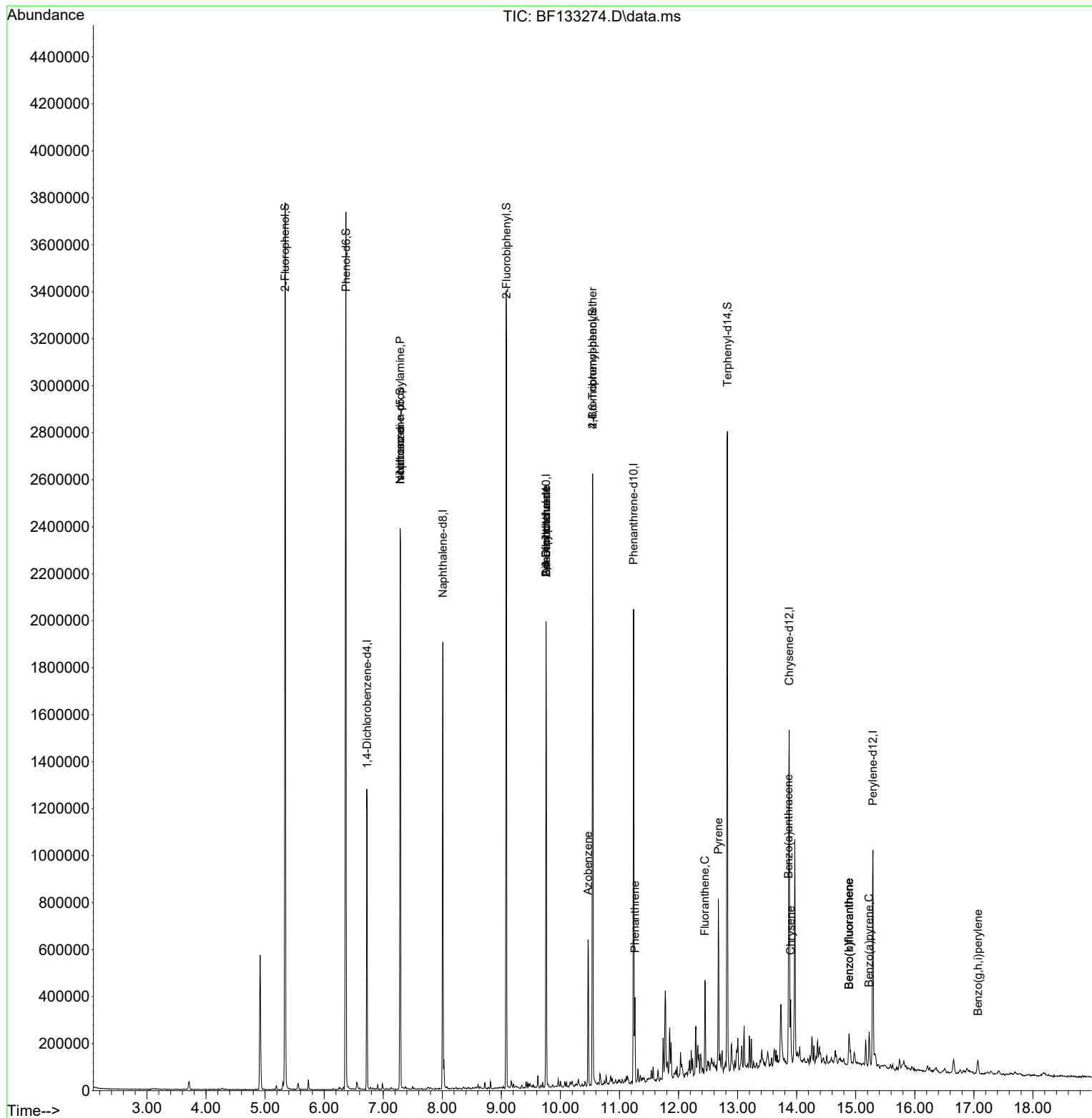
| Compound                      | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|--------|----------|
| -----                         |        |      |          |           |        |          |
| Internal Standards            |        |      |          |           |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.728  | 152  | 181724   | 20.000    | ng     | 0.00     |
| 21) Naphthalene-d8            | 8.010  | 136  | 734608   | 20.000    | ng     | 0.00     |
| 39) Acenaphthene-d10          | 9.757  | 164  | 380853   | 20.000    | ng     | 0.00     |
| 64) Phenanthrene-d10          | 11.239 | 188  | 675902   | 20.000    | ng     | 0.00     |
| 76) Chrysene-d12              | 13.874 | 240  | 430549   | 20.000    | ng     | 0.00     |
| 86) Perylene-d12              | 15.292 | 264  | 385107   | 20.000    | ng     | 0.00     |
| System Monitoring Compounds   |        |      |          |           |        |          |
| 5) 2-Fluorophenol             | 5.340  | 112  | 1048066  | 87.122    | ng     | 0.00     |
| 7) Phenol-d6                  | 6.369  | 99   | 1259102  | 84.325    | ng     | 0.00     |
| 23) Nitrobenzene-d5           | 7.287  | 82   | 754853   | 55.464    | ng     | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.545 | 330  | 310862   | 81.161    | ng     | -0.01    |
| 45) 2-Fluorobiphenyl          | 9.087  | 172  | 1001791  | 44.006    | ng     | 0.00     |
| 79) Terphenyl-d14             | 12.827 | 244  | 955229   | 38.264    | ng     | 0.00     |
| Target Compounds              |        |      |          |           |        |          |
|                               |        |      |          |           | Qvalue |          |
| 9) Benzaldehyde               | 6.275  | 77   | 1467     | Below Cal | #      | 62       |
| 19) n-Nitroso-di-n-propyla... | 7.287  | 70   | 101312   | 10.899    | ng     | # 77     |
| 25) Isophorone                | 7.287  | 82   | 754847   | 29.212    | ng     | # 63     |
| 50) Dimethylphthalate         | 9.757  | 163  | 72644    | 2.735     | ng     | # 1      |
| 51) 2,6-Dinitrotoluene        | 9.757  | 165  | 50467    | 8.443     | ng     | # 25     |
| 57) 2,4-Dinitrotoluene        | 9.757  | 165  | 50467    | 6.621     | ng     | # 23     |
| 63) Azobenzene                | 10.469 | 77   | 108122   | 4.069     | ng     | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.545 | 248  | 19184    | 2.617     | ng     | # 1      |
| 71) Phenanthrene              | 11.263 | 178  | 110758   | 3.049     | ng     | 98       |
| 75) Fluoranthene              | 12.445 | 202  | 157166   | 4.311     | ng     | 98       |
| 78) Pyrene                    | 12.675 | 202  | 276457   | 7.490     | ng     | 100      |
| 81) Benzo(a)anthracene        | 13.863 | 228  | 103390   | 3.492     | ng     | 95       |
| 83) Chrysene                  | 13.898 | 228  | 95111    | 3.213     | ng     | 99       |
| 88) Benzo(b)fluoranthene      | 14.886 | 252  | 90549    | 3.696     | ng     | 97       |
| 89) Benzo(k)fluoranthene      | 14.886 | 252  | 90549    | 3.728     | ng     | 97       |
| 90) Benzo(a)pyrene            | 15.227 | 252  | 61937    | 2.777     | ng     | 98       |
| 92) Benzo(g,h,i)perylene      | 17.068 | 276  | 41828    | 2.319     | ng     | 94       |
| -----                         |        |      |          |           |        |          |

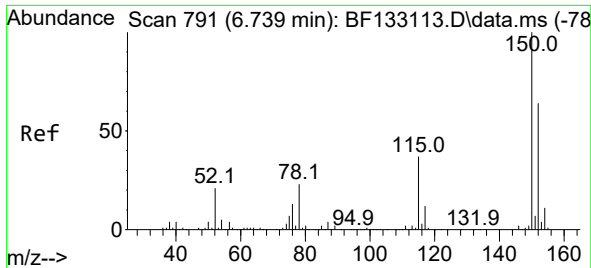
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF050523\  
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Instrument :  
BNA\_F  
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SP-1

Quant Time: May 06 05:51:37 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF042123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri May 05 10:49:34 2023  
Response via : Initial Calibration

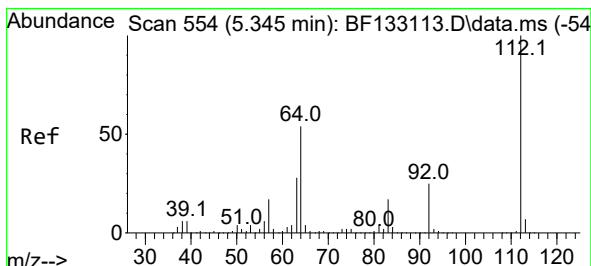
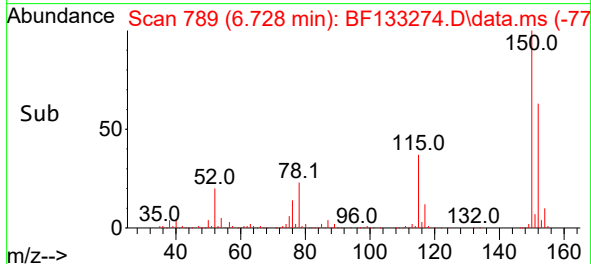
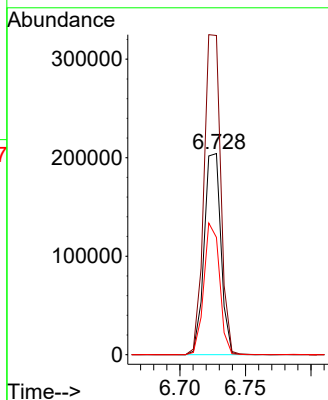
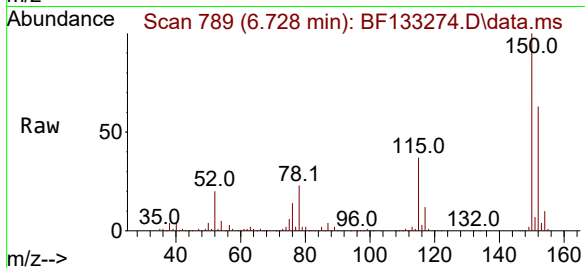




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.728 min Scan# 791  
Delta R.T. -0.000 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

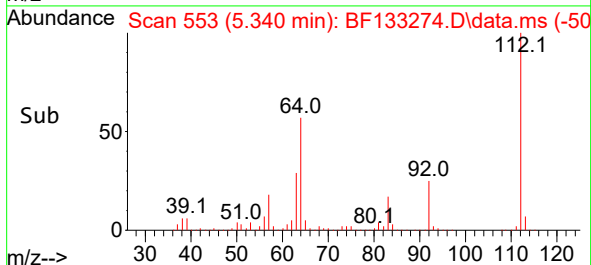
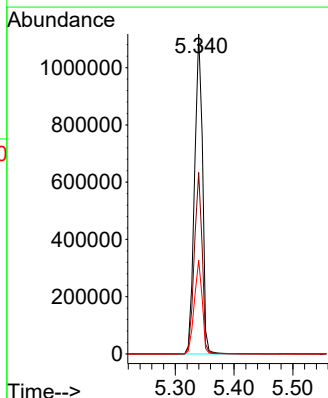
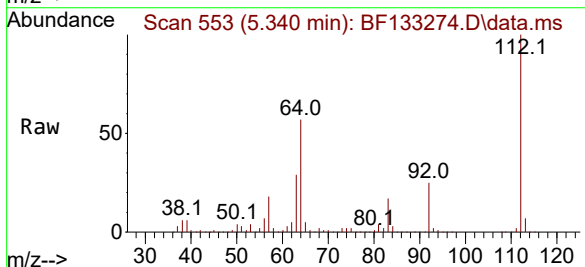
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

Tgt Ion:152 Resp: 181724  
Ion Ratio Lower Upper  
152 100  
150 158.7 124.8 187.2  
115 58.3 49.9 74.9



#5  
2-Fluorophenol  
Concen: 87.122 ng  
RT: 5.340 min Scan# 553  
Delta R.T. 0.006 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion:112 Resp: 1048066  
Ion Ratio Lower Upper  
112 100  
64 56.7 46.8 70.2  
63 29.4 23.8 35.8

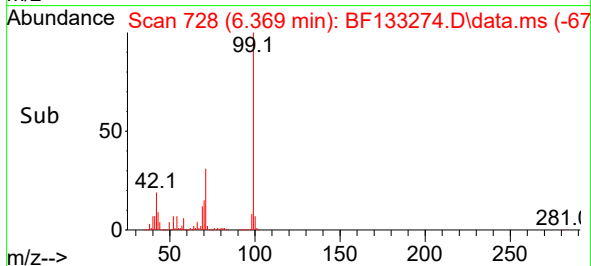
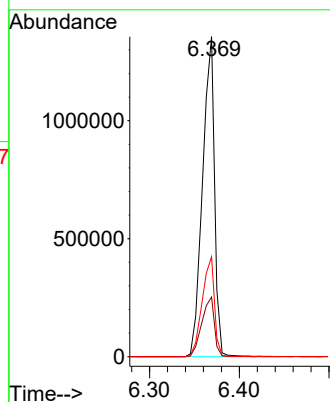
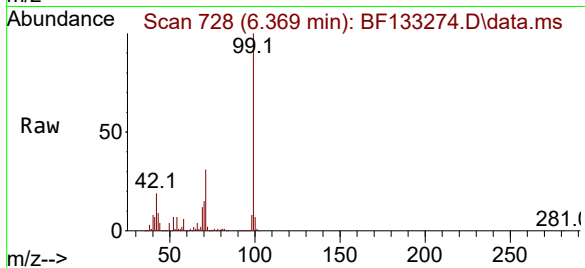




#7  
Phenol-d6  
Concen: 84.325 ng  
RT: 6.369 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

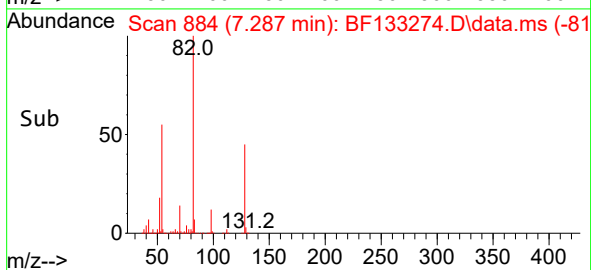
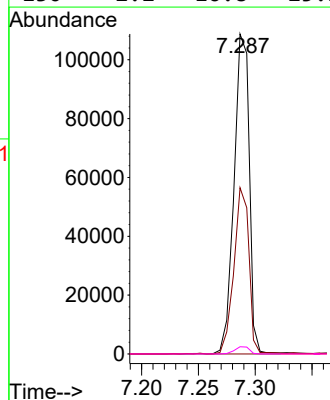
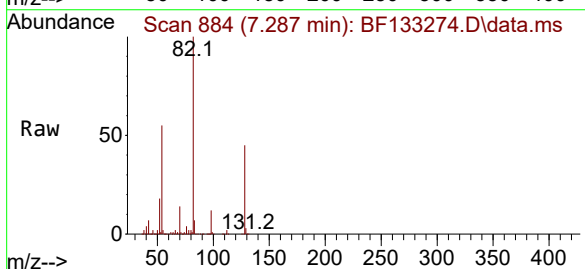
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

Tgt Ion: 99 Resp: 1259102  
Ion Ratio Lower Upper  
99 100  
42 18.6 16.3 24.5  
71 31.2 25.6 38.4



#19  
n-Nitroso-di-n-propylamine  
Concen: 10.899 ng  
RT: 7.287 min Scan# 884  
Delta R.T. 0.135 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion: 70 Resp: 101312  
Ion Ratio Lower Upper  
70 100  
42 52.0 51.8 77.6  
101 0.0 8.0 12.0#  
130 2.2 16.8 25.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.010 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

Instrument :

BNA\_F

ClientSampleId :

SP-1

Tgt Ion:136 Resp: 734608

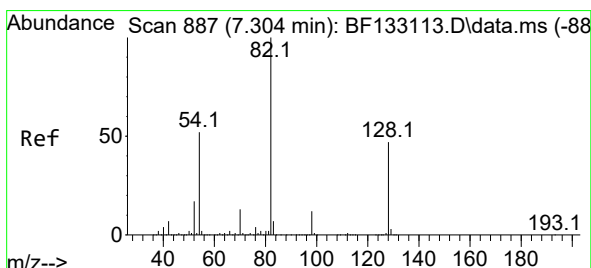
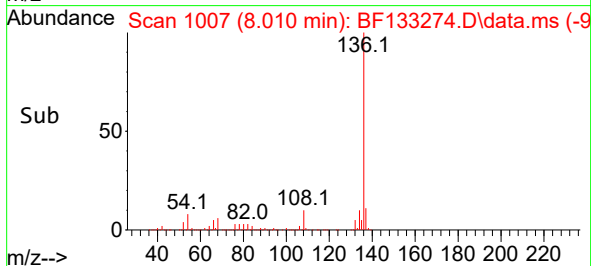
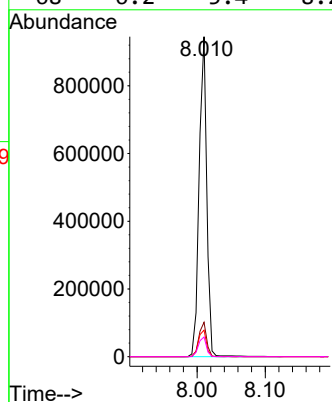
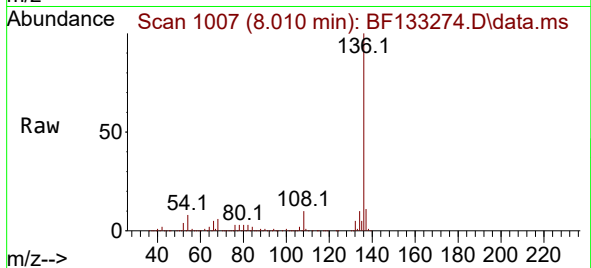
Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

54 8.3 7.0 10.4

68 6.2 5.4 8.2



#23

Nitrobenzene-d5

Concen: 55.464 ng

RT: 7.287 min Scan# 884

Delta R.T. -0.012 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

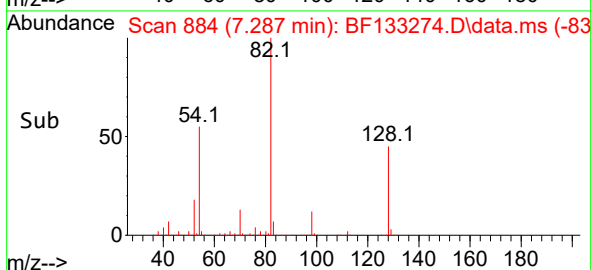
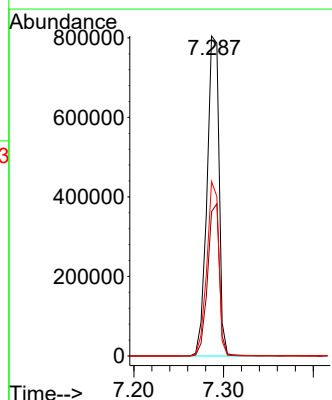
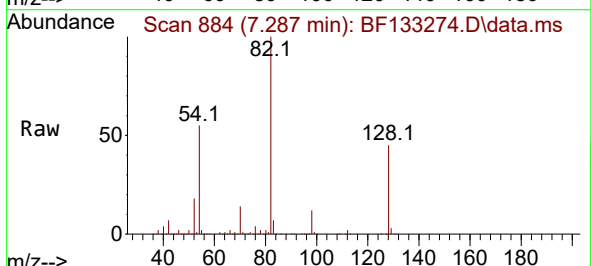
Tgt Ion: 82 Resp: 754853

Ion Ratio Lower Upper

82 100

128 45.1 37.7 56.5

54 54.5 43.0 64.4

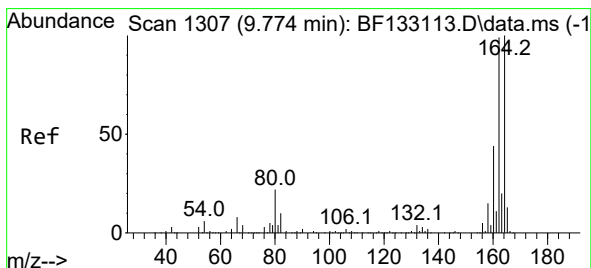
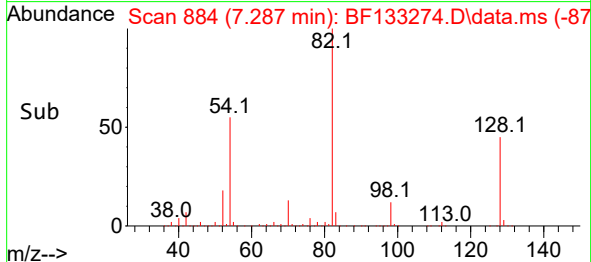
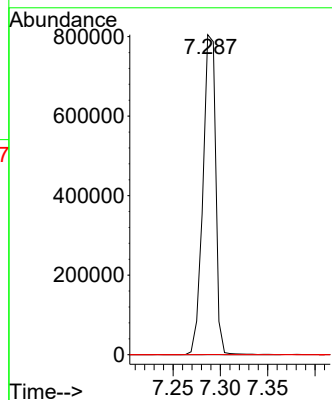
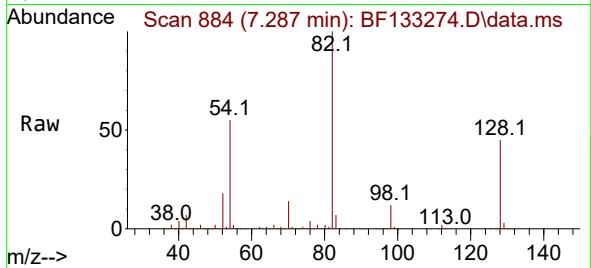




#25  
Isophorone  
Concen: 29.212 ng  
RT: 7.287 min Scan# 81  
Delta R.T. -0.265 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

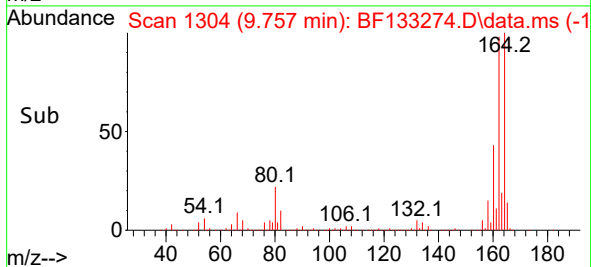
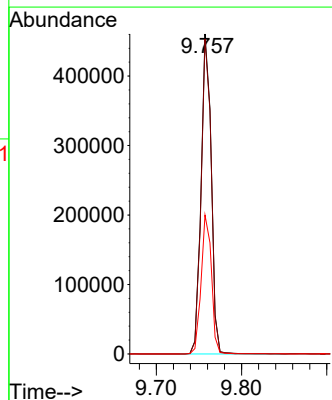
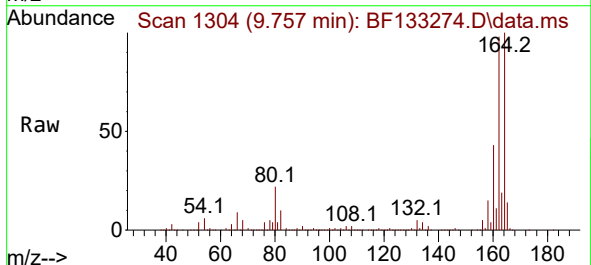
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

Tgt Ion: 82 Resp: 754847  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.4 8.0#  
138 0.0 16.0 24.0#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.757 min Scan# 1304  
Delta R.T. -0.006 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion: 164 Resp: 380853  
Ion Ratio Lower Upper  
164 100  
162 98.5 78.7 118.1  
160 43.4 35.8 53.6

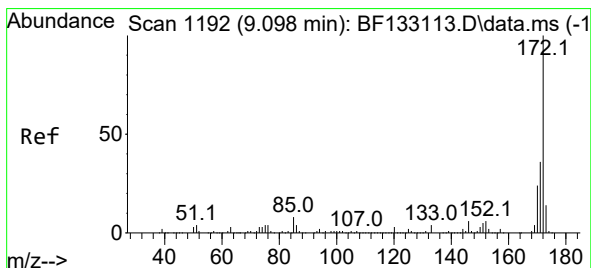
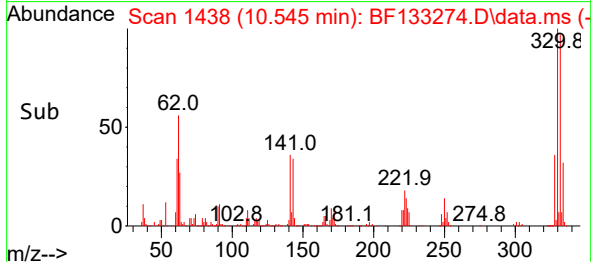
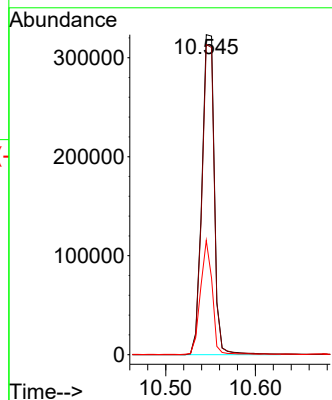
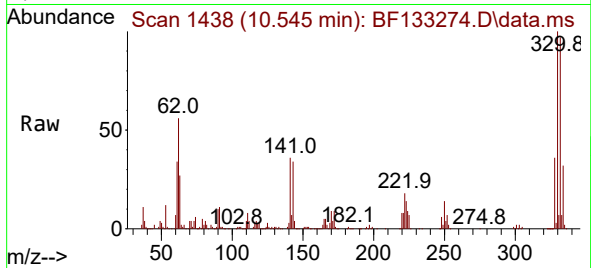




#42  
2,4,6-Tribromophenol  
Concen: 81.161 ng  
RT: 10.545 min Scan# 1441  
Delta R.T. -0.012 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

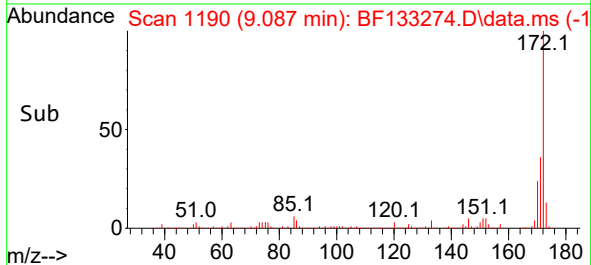
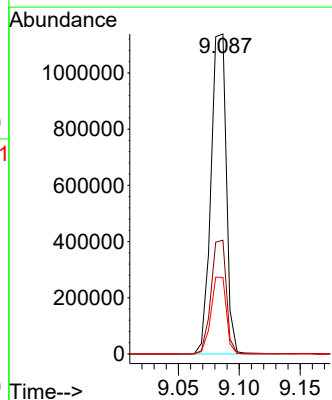
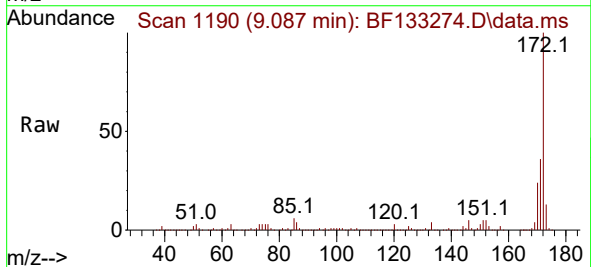
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

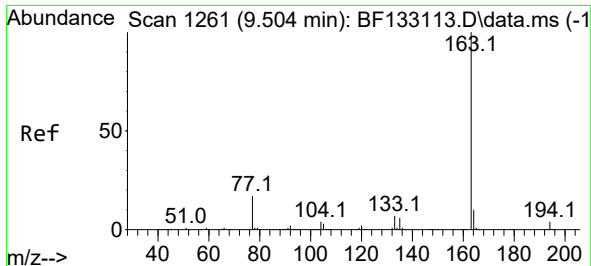
Tgt Ion:330 Resp: 310862  
Ion Ratio Lower Upper  
330 100  
332 96.8 77.1 115.7  
141 33.4 25.8 38.8



#45  
2-Fluorobiphenyl  
Concen: 44.006 ng  
RT: 9.087 min Scan# 1190  
Delta R.T. -0.006 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion:172 Resp: 1001791  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.8 43.2  
170 23.9 19.4 29.2

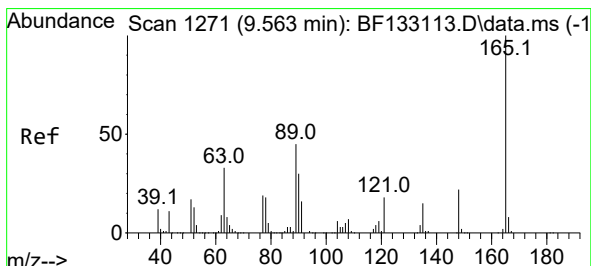
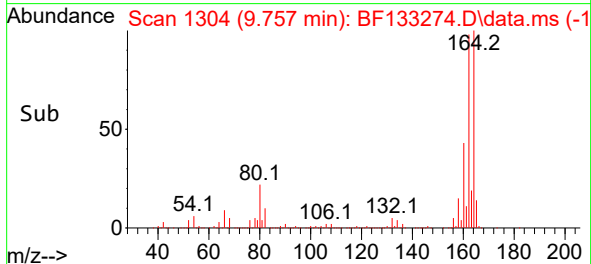
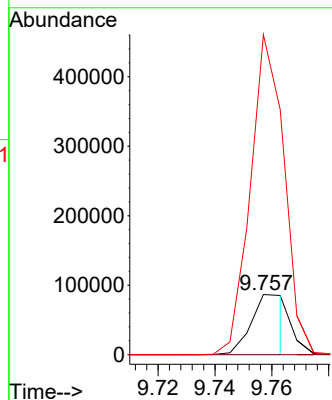
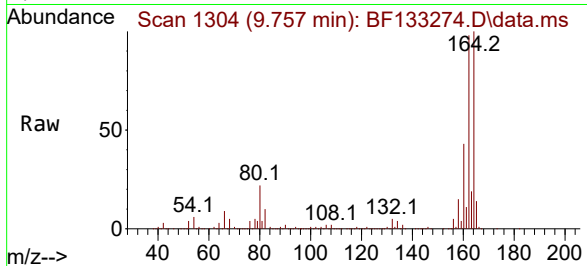




#50  
Dimethylphthalate  
Concen: 2.735 ng  
RT: 9.757 min Scan# 1304  
Delta R.T. 0.265 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

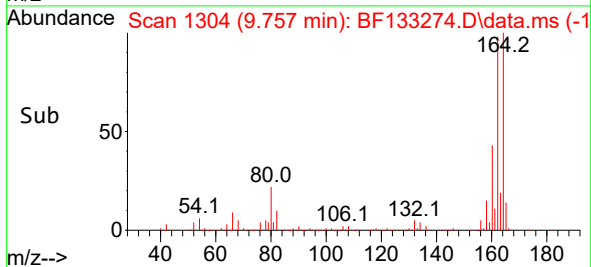
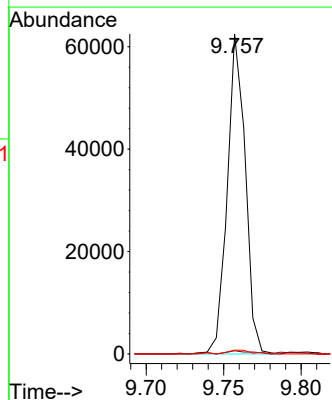
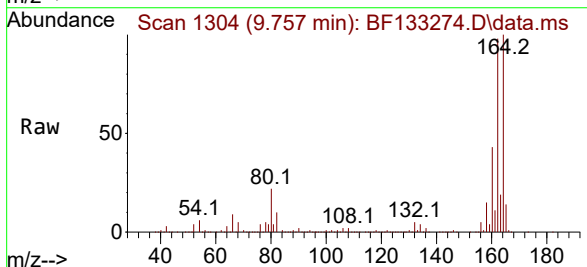
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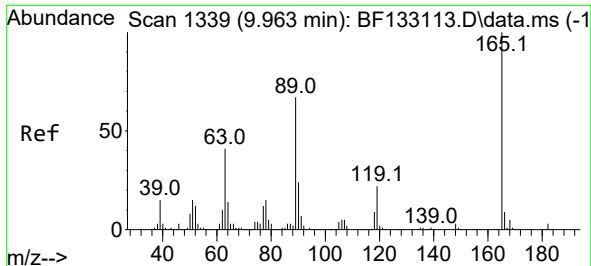
Tgt Ion:163 Resp: 72644  
Ion Ratio Lower Upper  
163 100  
194 0.0 3.1 4.7#  
164 531.2 8.5 12.7#



#51  
2,6-Dinitrotoluene  
Concen: 8.443 ng  
RT: 9.757 min Scan# 1304  
Delta R.T. 0.206 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion:165 Resp: 50467  
Ion Ratio Lower Upper  
165 100  
63 1.0 45.9 68.9#  
89 1.2 44.0 66.0#

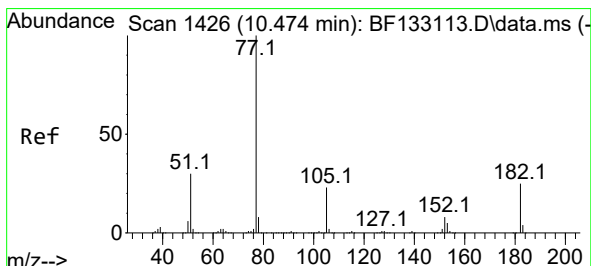
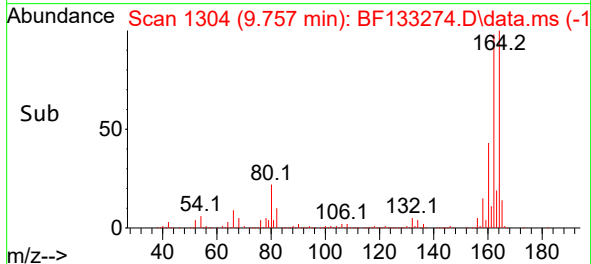
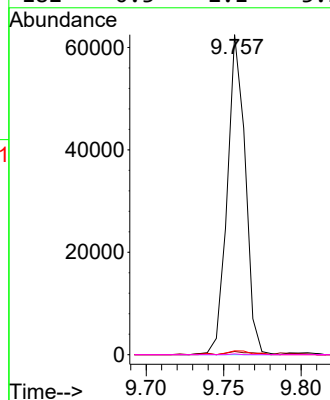
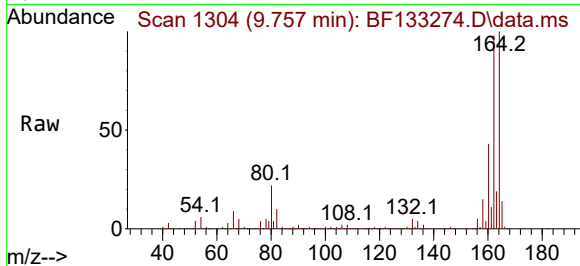




#57  
2,4-Dinitrotoluene  
Concen: 6.621 ng  
RT: 9.757 min Scan# 11  
Delta R.T. -0.200 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

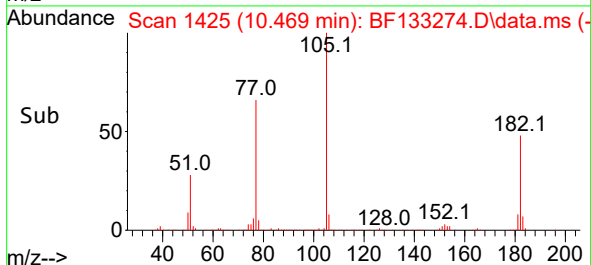
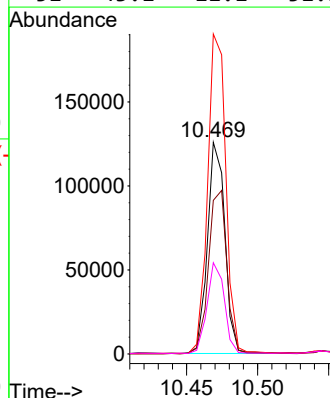
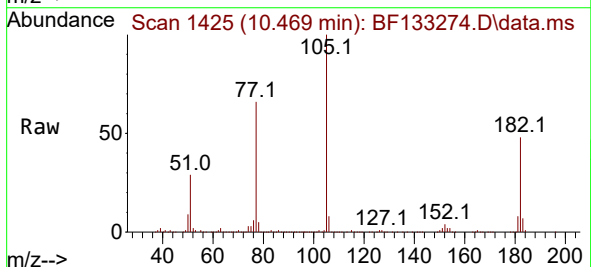
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

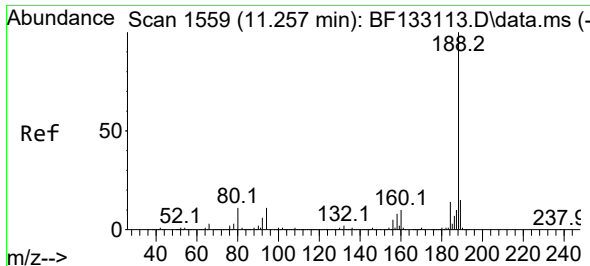
Tgt Ion:165 Resp: 50467  
Ion Ratio Lower Upper  
165 100  
63 1.0 37.7 56.5#  
89 1.2 57.0 85.4#  
182 0.3 2.1 3.1#



#63  
Azobenzene  
Concen: 4.069 ng  
RT: 10.469 min Scan# 1425  
Delta R.T. 0.000 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion: 77 Resp: 108122  
Ion Ratio Lower Upper  
77 100  
182 72.6 5.9 45.9#  
105 151.2 2.3 42.3#  
51 43.1 11.1 51.1

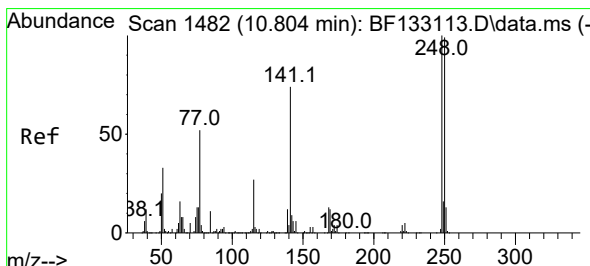
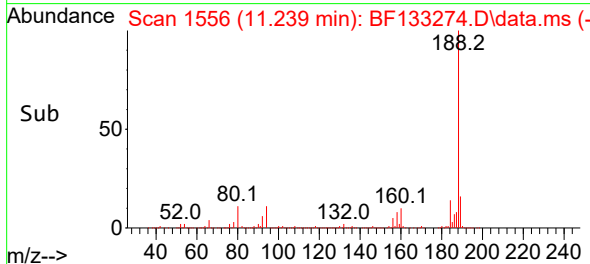
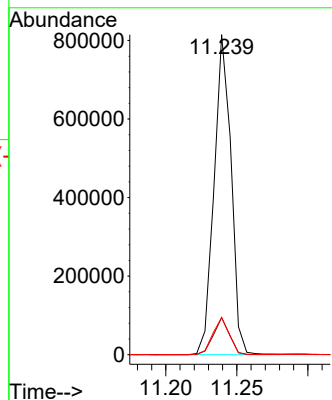
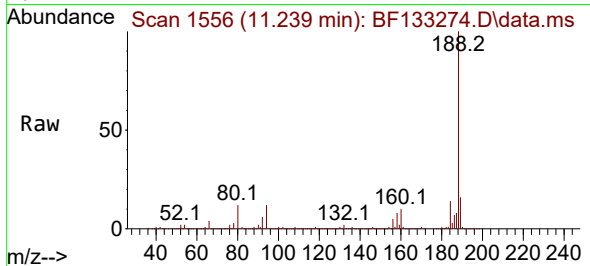




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.239 min Scan# 1  
Delta R.T. -0.006 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

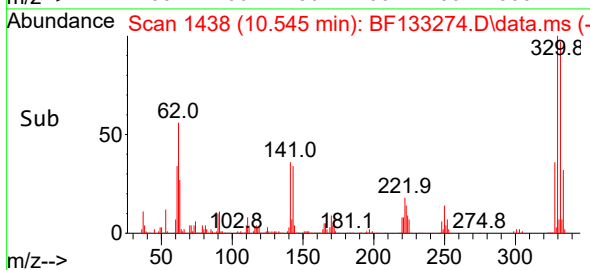
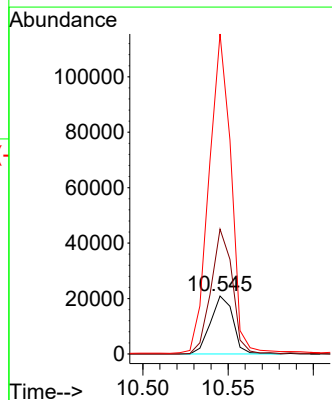
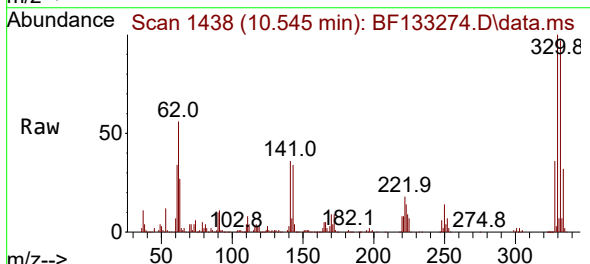
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

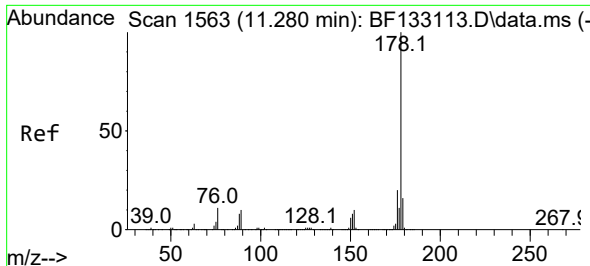
Tgt Ion:188 Resp: 675902  
Ion Ratio Lower Upper  
188 100  
94 11.6 9.7 14.5  
80 11.6 10.4 15.6



#67  
4-Bromophenyl-phenylether  
Concen: 2.617 ng  
RT: 10.545 min Scan# 1438  
Delta R.T. -0.247 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion:248 Resp: 19184  
Ion Ratio Lower Upper  
248 100  
250 215.3 78.7 118.1#  
141 551.9 56.3 84.5#

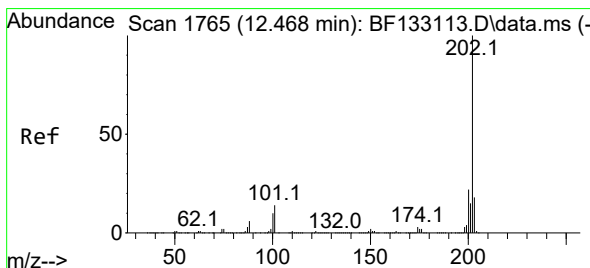
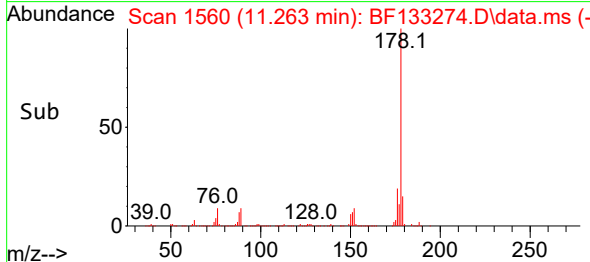
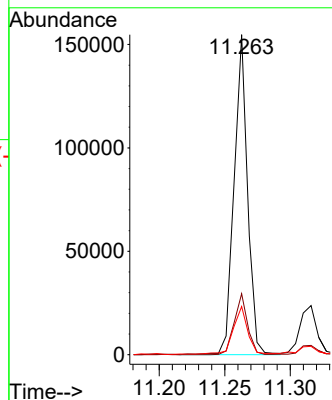
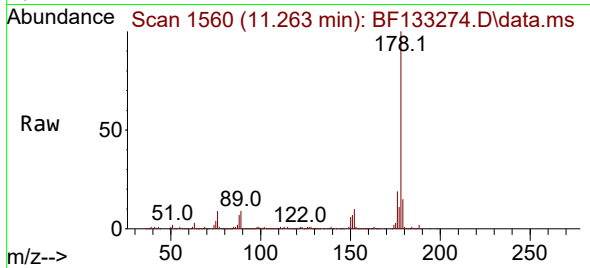




#71  
Phenanthrene  
Concen: 3.049 ng  
RT: 11.263 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

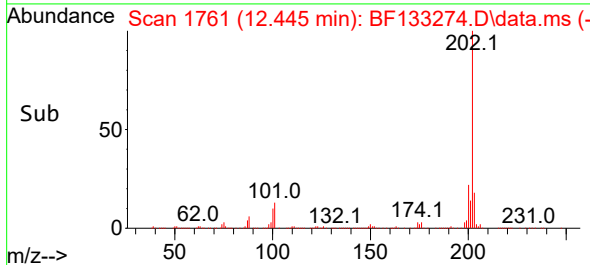
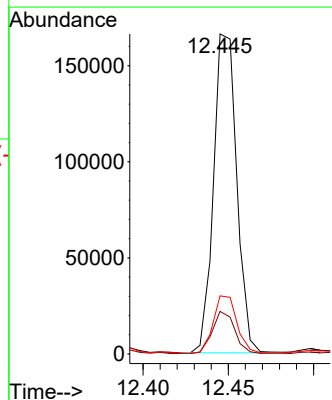
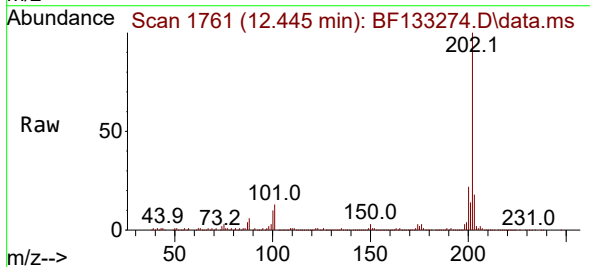
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

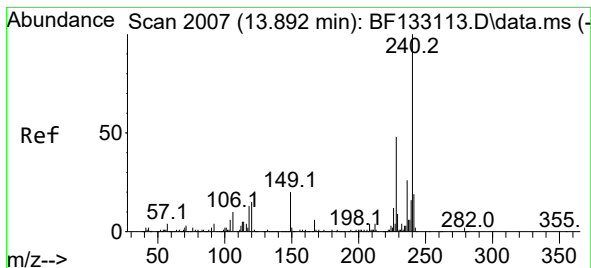
Tgt Ion:178 Resp: 110758  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.9 23.9  
179 15.1 12.5 18.7



#75  
Fluoranthene  
Concen: 4.311 ng  
RT: 12.445 min Scan# 1761  
Delta R.T. -0.012 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion:202 Resp: 157166  
Ion Ratio Lower Upper  
202 100  
101 13.3 0.0 35.3  
203 18.2 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.874 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

Instrument :

BNA\_F

ClientSampleId :

SP-1

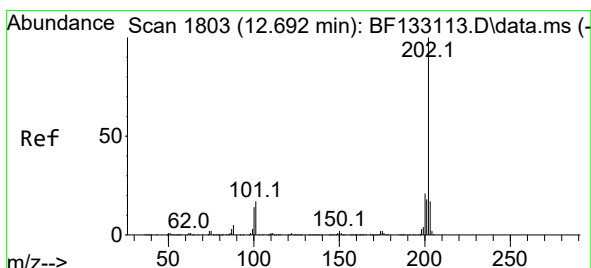
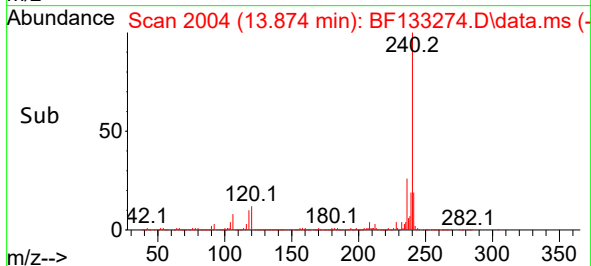
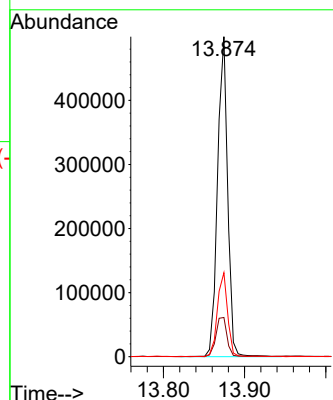
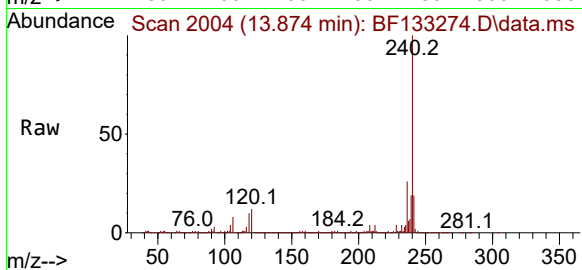
Tgt Ion:240 Resp: 430549

Ion Ratio Lower Upper

240 100

120 12.2 10.5 15.7

236 26.2 21.5 32.3



#78

Pyrene

Concen: 7.490 ng

RT: 12.675 min Scan# 1800

Delta R.T. -0.012 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

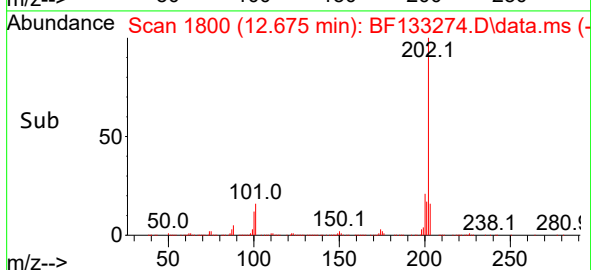
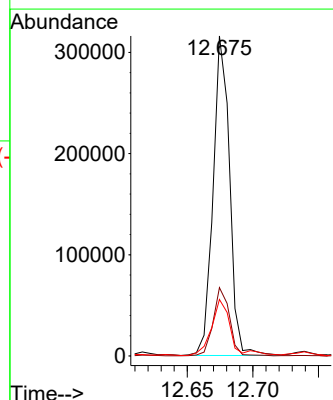
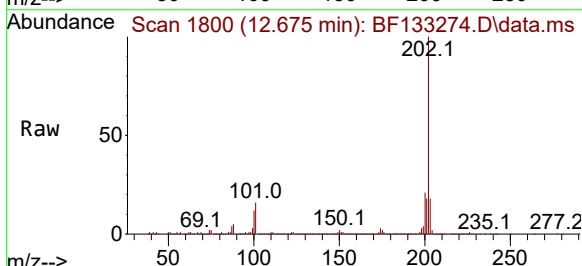
Tgt Ion:202 Resp: 276457

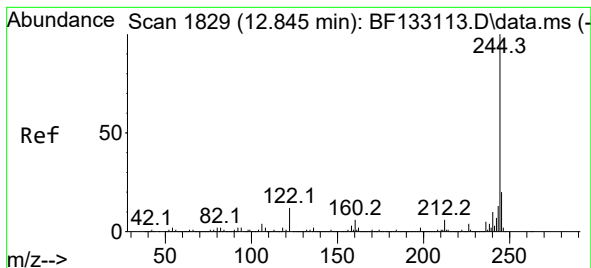
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.7 14.1 21.1





#79

Terphenyl-d14

Concen: 38.264 ng

RT: 12.827 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

Instrument :

BNA\_F

ClientSampleId :

SP-1

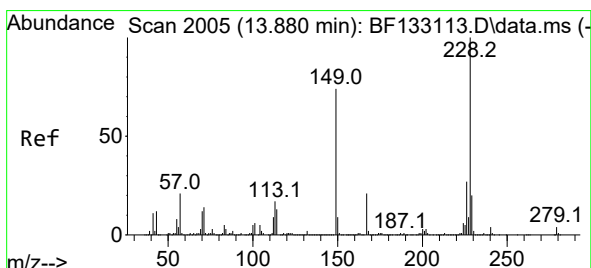
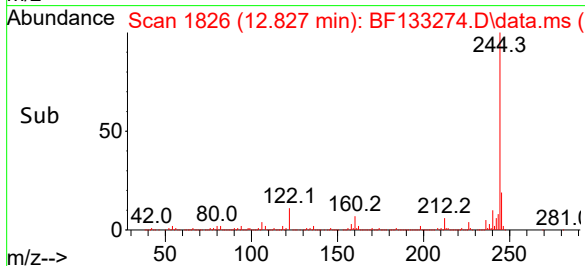
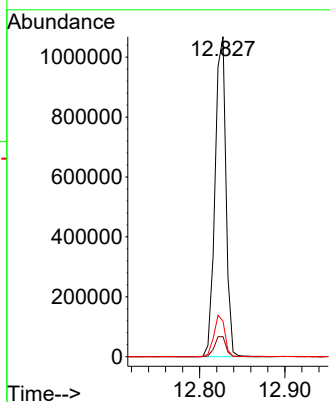
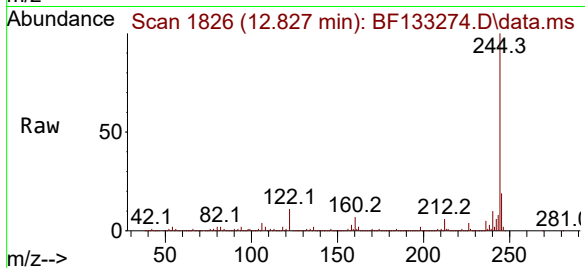
Tgt Ion:244 Resp: 955229

Ion Ratio Lower Upper

244 100

212 6.2 5.1 7.7

122 11.1 8.6 13.0



#81

Benzo(a)anthracene

Concen: 3.492 ng

RT: 13.863 min Scan# 2002

Delta R.T. -0.006 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

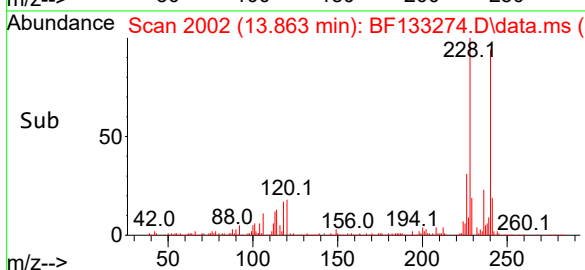
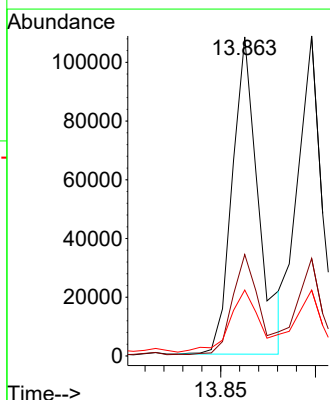
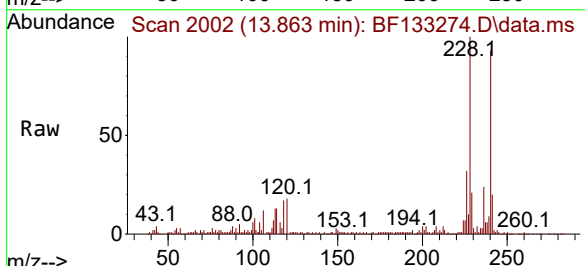
Tgt Ion:228 Resp: 103390

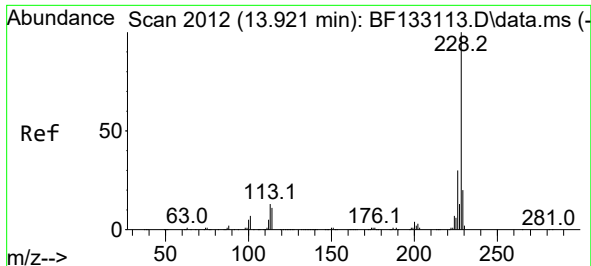
Ion Ratio Lower Upper

228 100

226 31.8 22.2 33.4

229 20.7 16.0 24.0

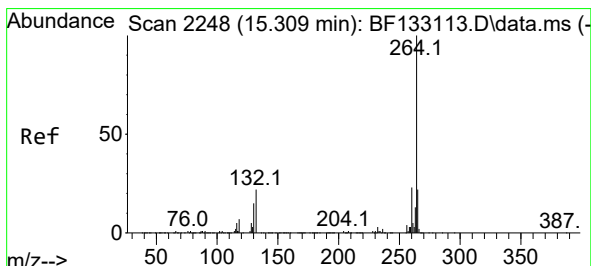
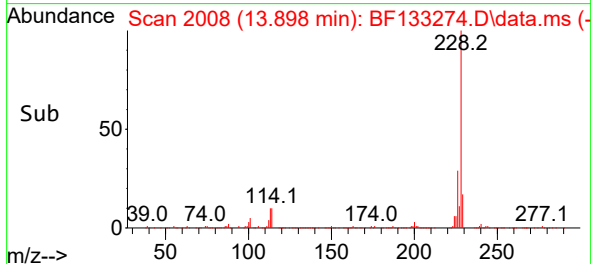
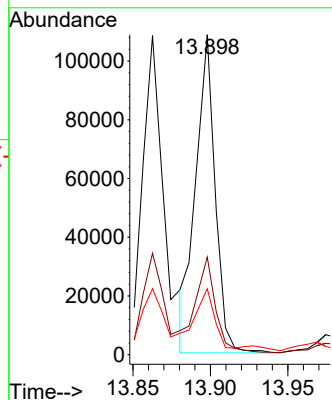
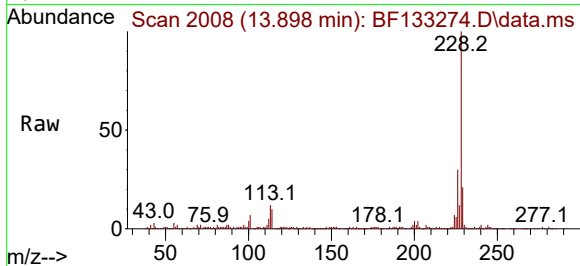




#83  
Chrysene  
Concen: 3.213 ng  
RT: 13.898 min Scan# 2012  
Delta R.T. -0.012 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

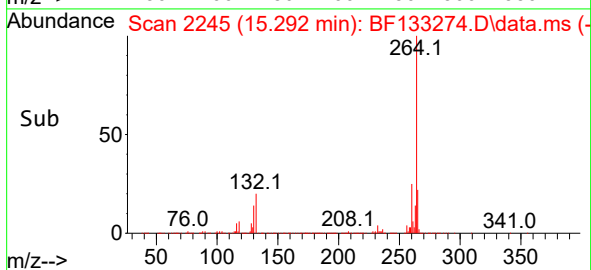
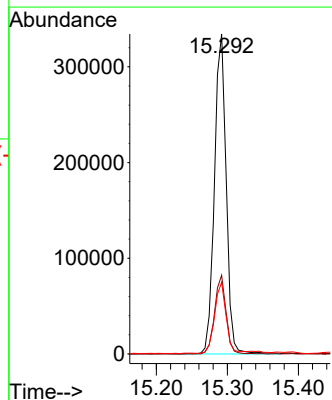
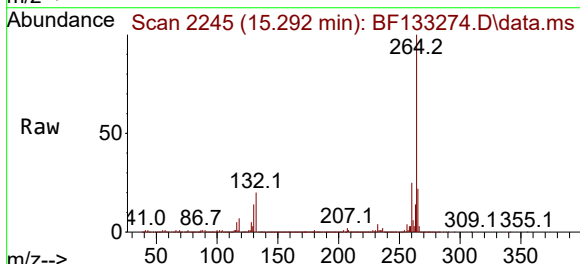
Instrument :  
BNA\_F  
ClientSampleId :  
SP-1

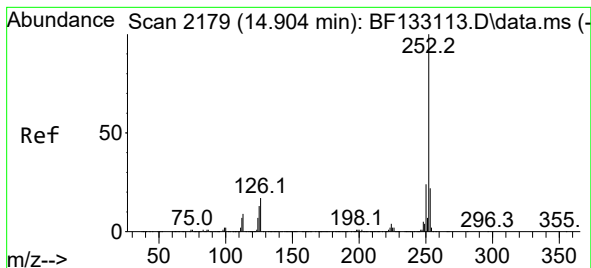
Tgt Ion:228 Resp: 95111  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.7 37.1  
229 20.6 16.1 24.1



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.292 min Scan# 2245  
Delta R.T. 0.000 min  
Lab File: BF133274.D  
Acq: 05 May 2023 20:50

Tgt Ion:264 Resp: 385107  
Ion Ratio Lower Upper  
264 100  
260 24.6 18.8 28.2  
265 22.4 17.0 25.4





#88

Benzo(b)fluoranthene

Concen: 3.696 ng

RT: 14.886 min Scan# 2176

Delta R.T. -0.006 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

Instrument :

BNA\_F

ClientSampleId :

SP-1

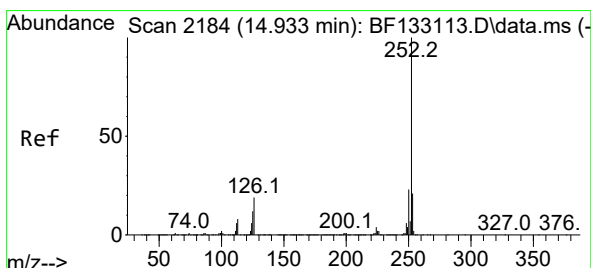
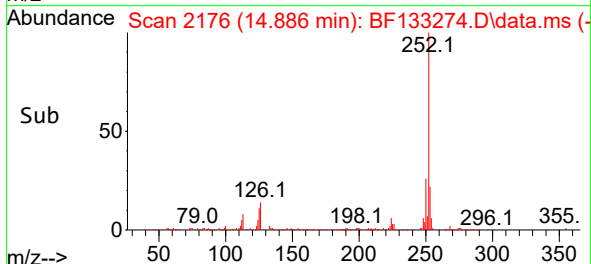
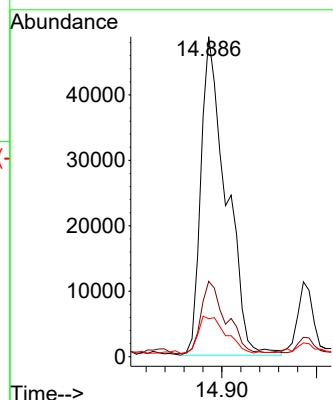
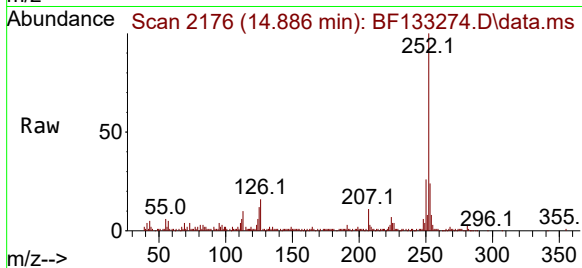
Tgt Ion:252 Resp: 90549

Ion Ratio Lower Upper

252 100

253 23.6 17.6 26.4

125 11.9 8.9 13.3



#89

Benzo(k)fluoranthene

Concen: 3.728 ng

RT: 14.886 min Scan# 2176

Delta R.T. -0.035 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

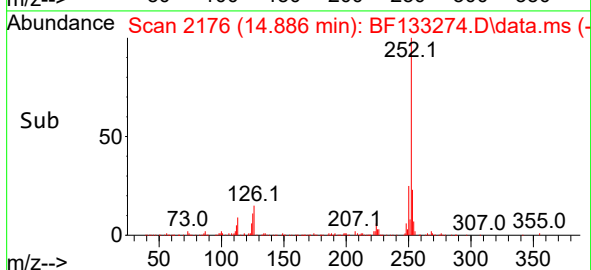
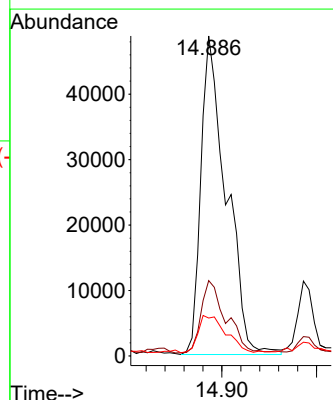
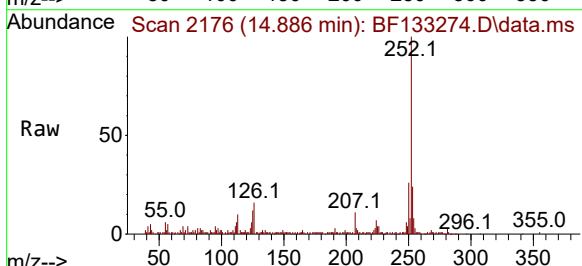
Tgt Ion:252 Resp: 90549

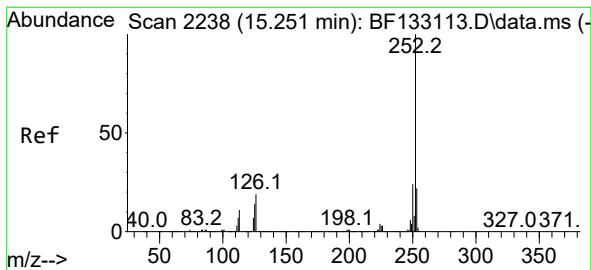
Ion Ratio Lower Upper

252 100

253 23.6 17.7 26.5

125 11.9 9.0 13.4





#90

Benzo(a)pyrene

Concen: 2.777 ng

RT: 15.227 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

Instrument :

BNA\_F

ClientSampleId :

SP-1

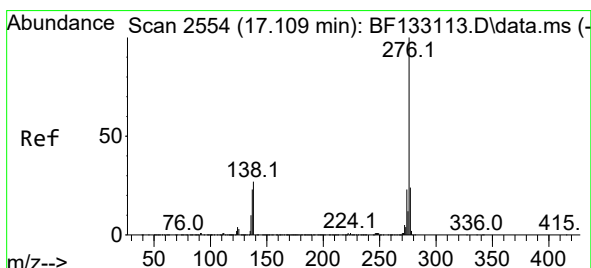
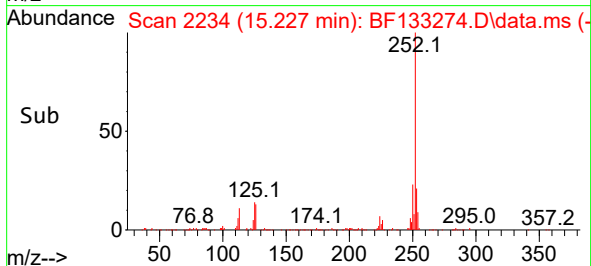
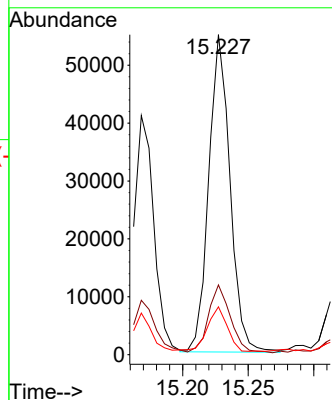
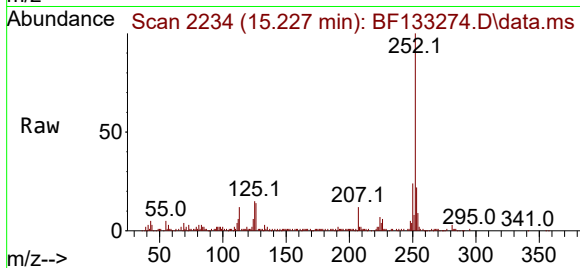
Tgt Ion:252 Resp: 61937

Ion Ratio Lower Upper

252 100

253 21.8 17.7 26.5

125 14.9 10.5 15.7



#92

Benzo(g,h,i)perylene

Concen: 2.319 ng

RT: 17.068 min Scan# 2547

Delta R.T. -0.023 min

Lab File: BF133274.D

Acq: 05 May 2023 20:50

Tgt Ion:276 Resp: 41828

Ion Ratio Lower Upper

276 100

277 24.7 19.4 29.0

138 23.0 22.7 34.1

