

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF073021\  
 Data File : BF124882.D  
 Acq On : 30 Jul 2021 18:26  
 Operator : JU/CG  
 Sample : M3210-04  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4(1.0-2.0)

Quant Time: Jul 31 00:07:15 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF072221.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 22 15:28:57 2021  
 Response via : Initial Calibration

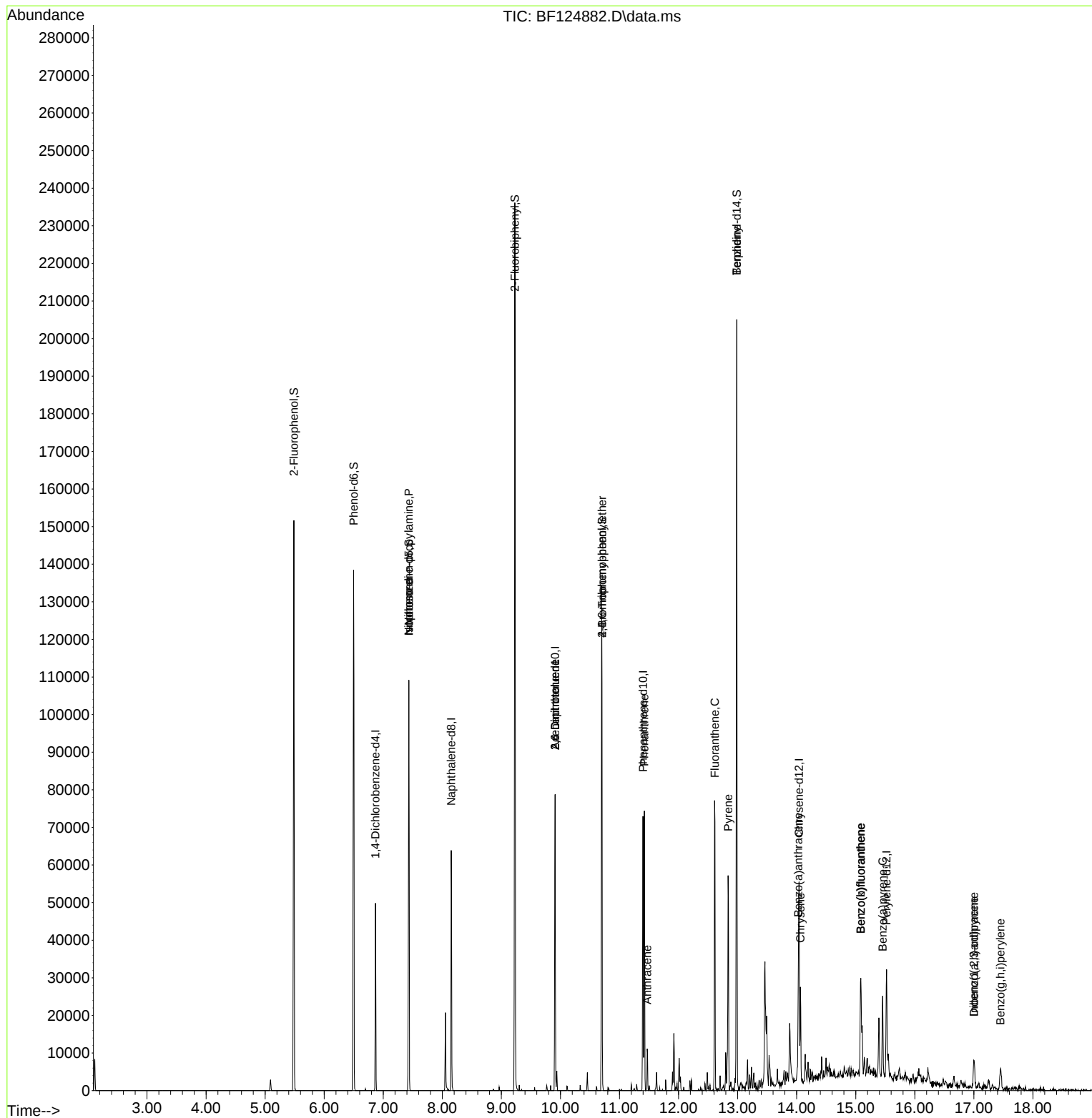
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.869  | 152  | 6762     | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 26706    | 20.00  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 9.910  | 164  | 16204    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.398 | 188  | 27501    | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.039 | 240  | 14494    | 20.00  | ng    | # 0.00   |
| 86) Perylene-d12              | 15.521 | 264  | 13450    | 20.00  | ng    | 0.01     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 38548    | 96.52  | ng    | 0.00     |
| 7) Phenol-d6                  | 6.498  | 99   | 47671    | 95.21  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.433  | 82   | 33553    | 74.78  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.704 | 330  | 14088    | 101.26 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.227  | 172  | 73034    | 66.20  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.986 | 244  | 64496    | 76.28  | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.433  | 70   | 4033     | 15.08  | ng    | # 73     |
| 25) Isophorone                | 7.433  | 82   | 33552    | 42.29  | ng    | # 59     |
| 51) 2,6-Dinitrotoluene        | 9.910  | 165  | 2174     | 8.82   | ng    | # 26     |
| 57) 2,4-Dinitrotoluene        | 9.910  | 165  | 2174     | 6.50   | ng    | # 18     |
| 67) 4-Bromophenyl-phenylether | 10.704 | 248  | 997      | 3.42   | ng    | # 1      |
| 71) Phenanthrene              | 11.421 | 178  | 23962    | 16.20  | ng    | 96       |
| 72) Anthracene                | 11.469 | 178  | 5387     | 3.64   | ng    | 96       |
| 75) Fluoranthene              | 12.615 | 202  | 31364    | 20.78  | ng    | 96       |
| 77) Benzidine                 | 12.986 | 184  | 1095     | 2.68   | ng    | # 69     |
| 78) Pyrene                    | 12.839 | 202  | 24580    | 21.42  | ng    | 97       |
| 81) Benzo(a)anthracene        | 14.027 | 228  | 12544    | 13.24  | ng    | 97       |
| 83) Chrysene                  | 14.062 | 228  | 10808    | 11.84  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.003 | 276  | 6036     | 7.77   | ng    | # 88     |
| 88) Benzo(b)fluoranthene      | 15.086 | 252  | 20772    | 21.94  | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.086 | 252  | 20772    | 24.01  | ng    | # 97     |
| 90) Benzo(a)pyrene            | 15.456 | 252  | 10677    | 13.50  | ng    | 96       |
| 91) Dibenzo(a,h)anthracene    | 17.003 | 278  | 1732     | 2.55   | ng    | # 54     |
| 92) Benzo(g,h,i)perylene      | 17.450 | 276  | 5334     | 8.27   | ng    | 94       |
| -----                         |        |      |          |        |       |          |

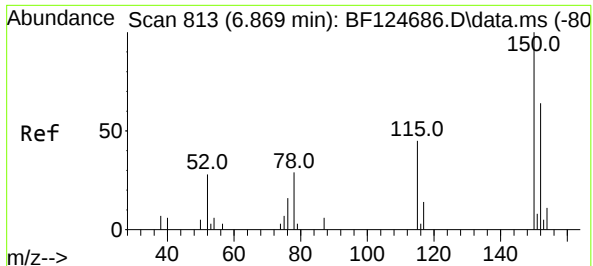
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 16 Sample Multiplier: 1

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SB-4(1.0-2.0)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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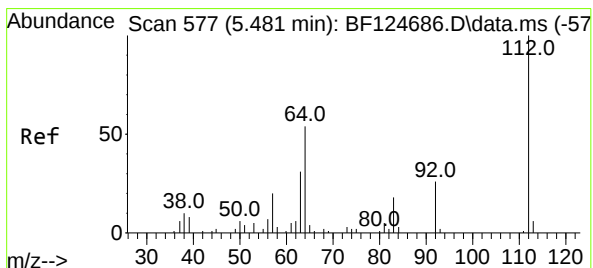
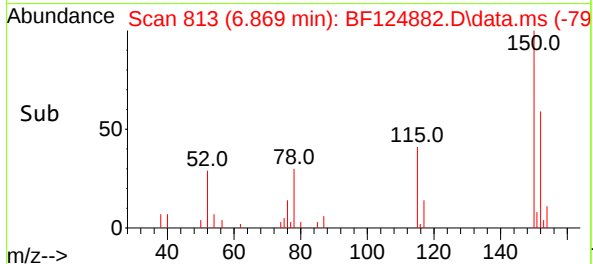
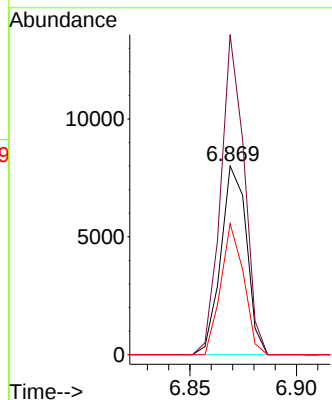
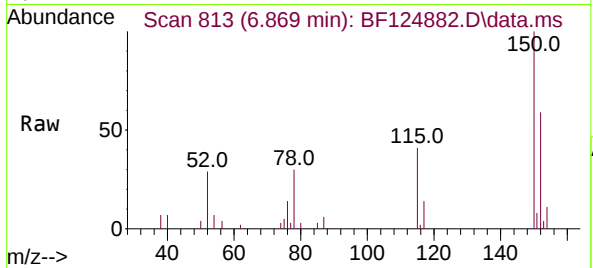




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.869 min Scan# 813  
Delta R.T. -0.000 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

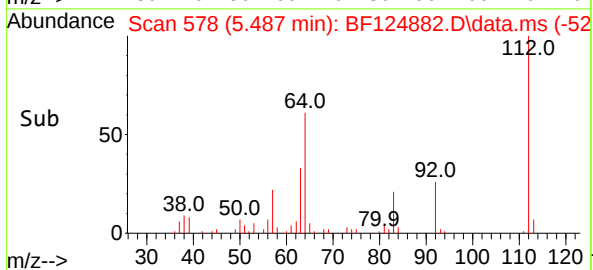
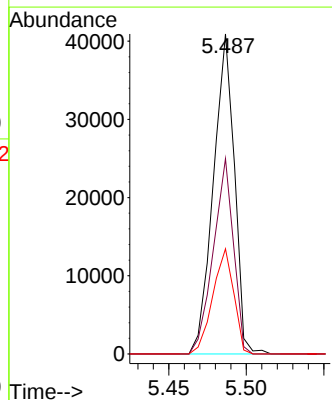
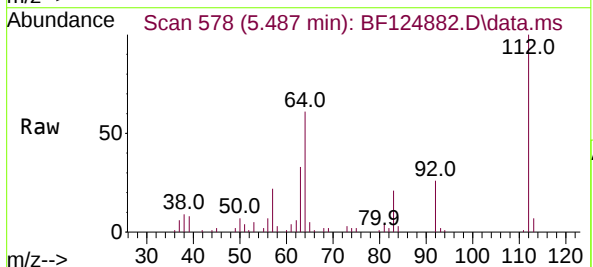
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

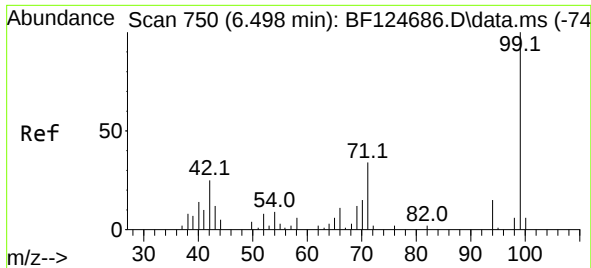
Tgt Ion:152 Resp: 6762  
Ion Ratio Lower Upper  
152 100  
150 169.6 117.6 176.4  
115 69.5 47.1 70.7



#5  
2-Fluorophenol  
Concen: 96.52 ng  
RT: 5.487 min Scan# 578  
Delta R.T. 0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion:112 Resp: 38548  
Ion Ratio Lower Upper  
112 100  
64 61.1 44.2 66.2  
63 32.9 26.2 39.2

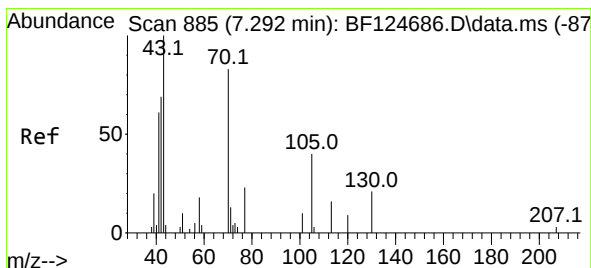
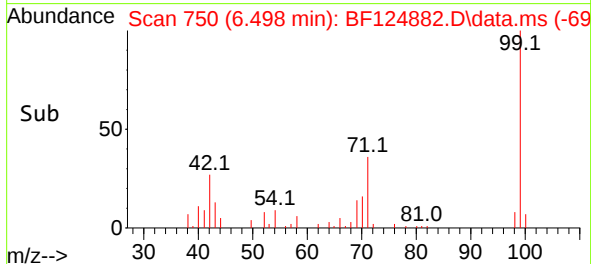
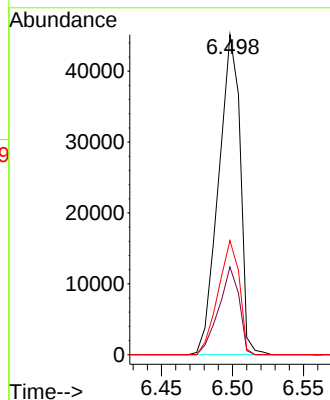
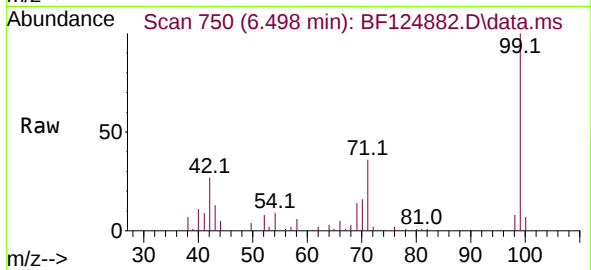




#7  
Phenol-d6  
Concen: 95.21 ng  
RT: 6.498 min Scan# 750  
Delta R.T. -0.000 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

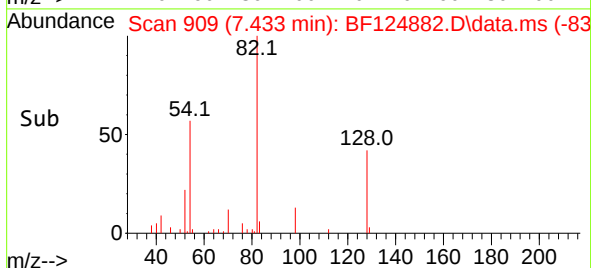
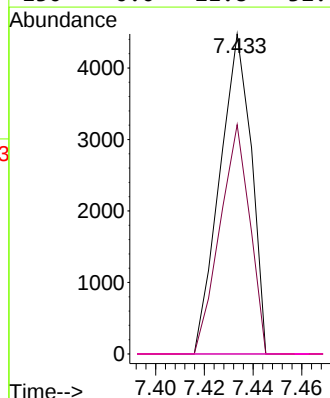
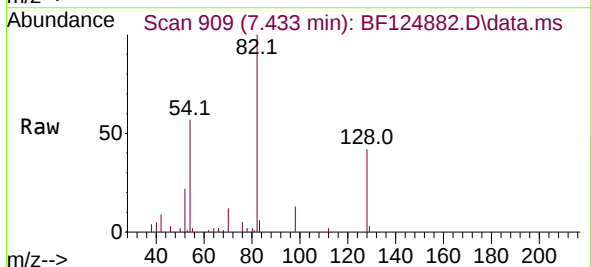
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

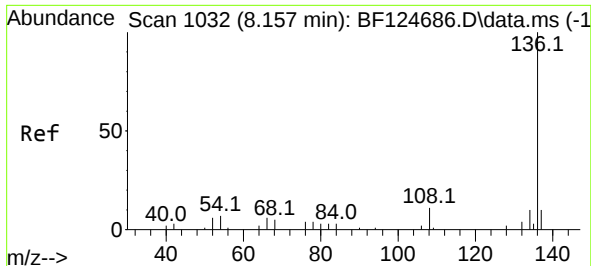
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 47671 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 27.4  | 23.5  | 35.3  |
| 71       | 35.7  | 25.6  | 38.4  |



#19  
n-Nitroso-di-n-propylamine  
Concen: 15.08 ng  
RT: 7.433 min Scan# 909  
Delta R.T. 0.141 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 4033   |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 71.6  | 72.2  | 108.2# |
| 101      | 0.0   | 7.8   | 11.8#  |
| 130      | 0.0   | 21.8  | 32.6#  |

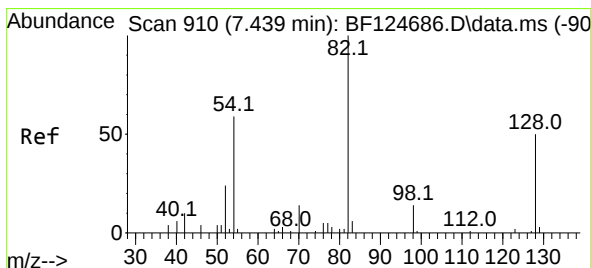
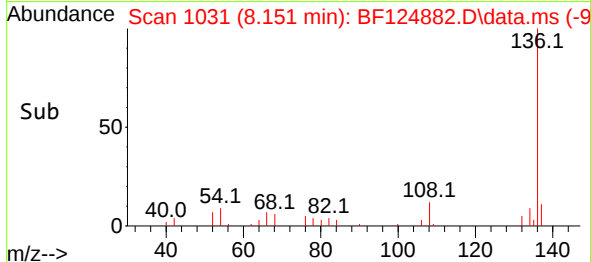
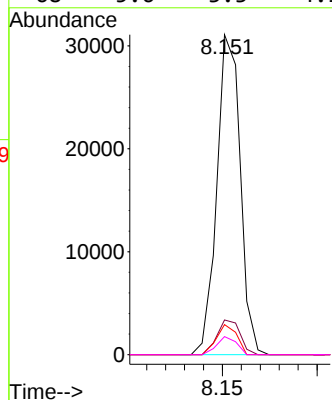
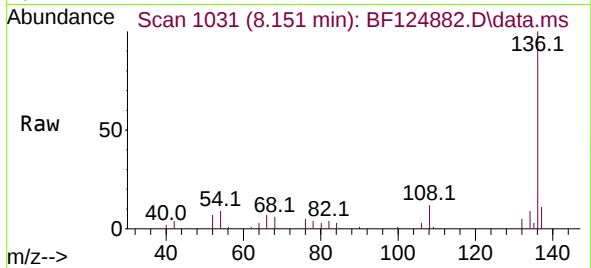




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.151 min Scan# 1031  
Delta R.T. -0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

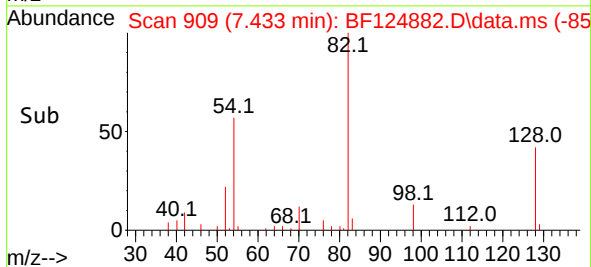
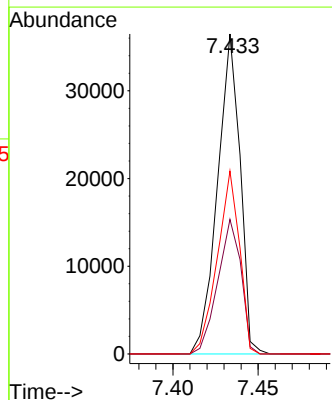
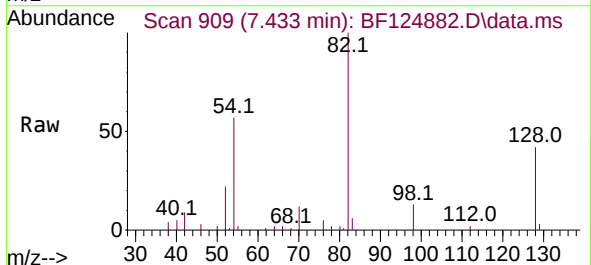
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

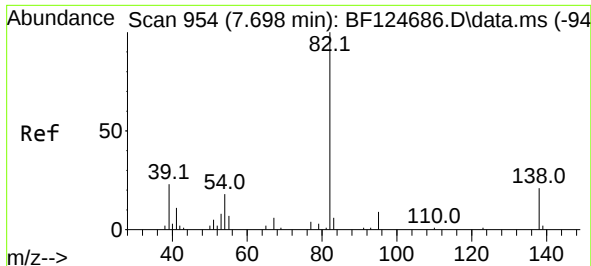
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:136 | Resp: | 26706    |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.9  | 9.8 14.6 |
| 54          | 9.4   | 6.4 9.6  |
| 68          | 5.6   | 3.3 4.9# |



#23  
Nitrobenzene-d5  
Concen: 74.78 ng  
RT: 7.433 min Scan# 909  
Delta R.T. -0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 33553     |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 42.0  | 40.6 60.8 |
| 54          | 57.1  | 49.6 74.4 |

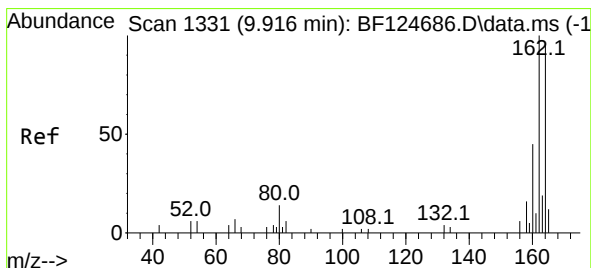
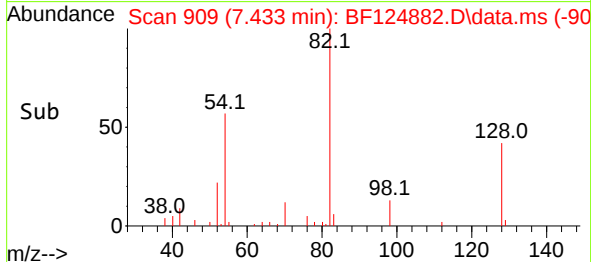
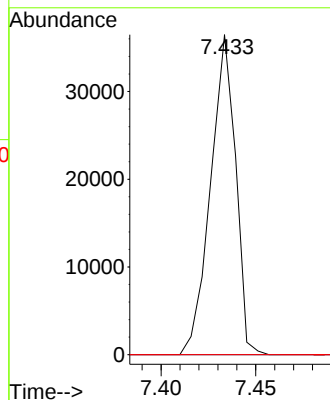
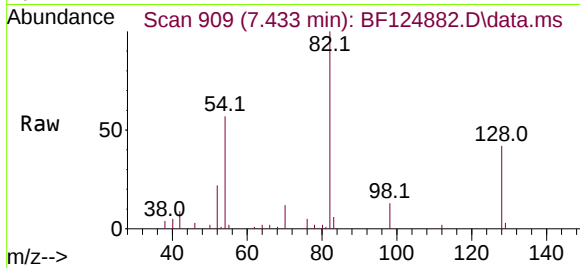




#25  
Isophorone  
Concen: 42.29 ng  
RT: 7.433 min Scan# 909  
Delta R.T. -0.265 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

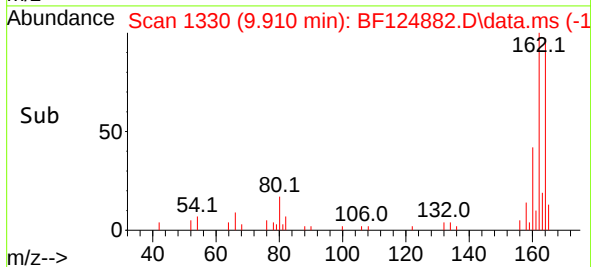
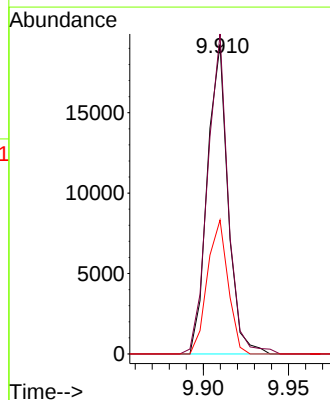
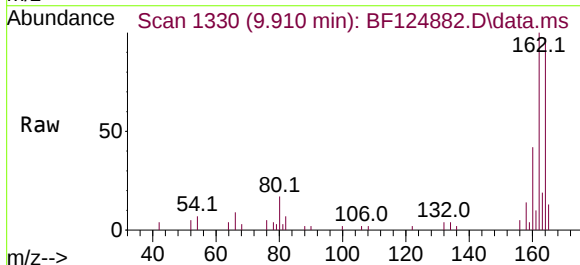
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SB-4(1.0-2.0)

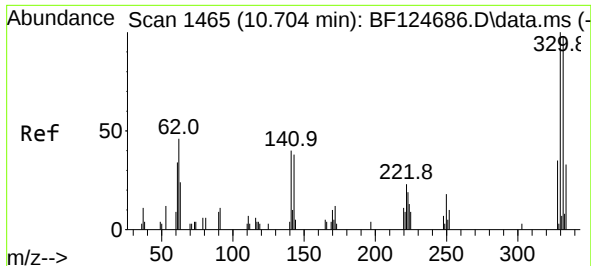
Tgt Ion: 82 Resp: 33552  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.5 9.7#  
138 0.0 18.4 27.6#



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.910 min Scan# 1330  
Delta R.T. -0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion: 164 Resp: 16204  
Ion Ratio Lower Upper  
164 100  
162 103.4 81.3 121.9  
160 43.3 38.0 57.0

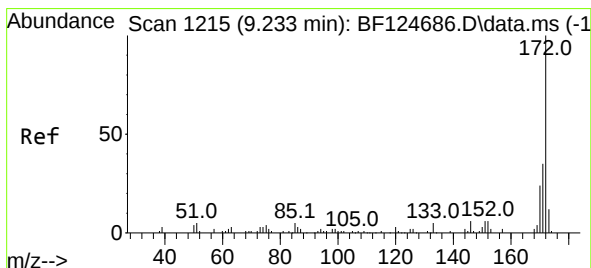
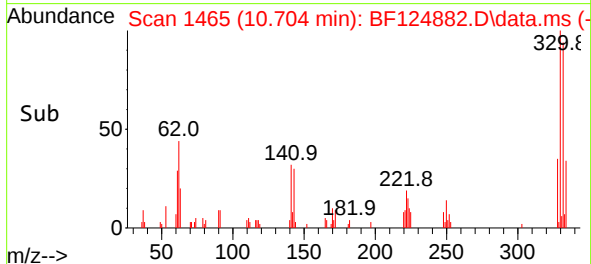
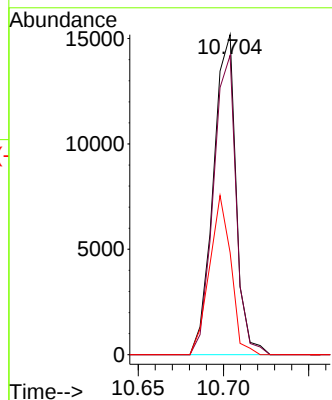
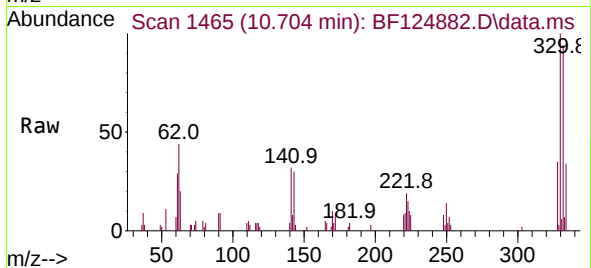




#42  
2,4,6-Tribromophenol  
Concen: 101.26 ng  
RT: 10.704 min Scan# 1465  
Delta R.T. -0.000 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

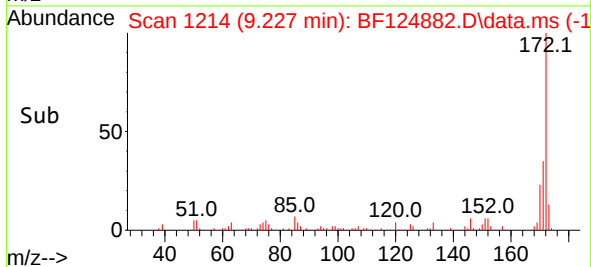
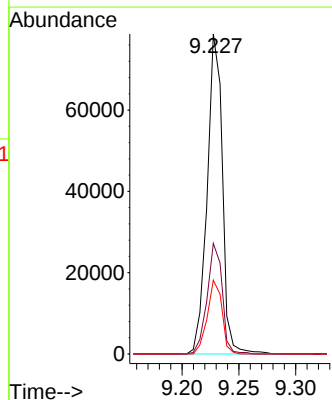
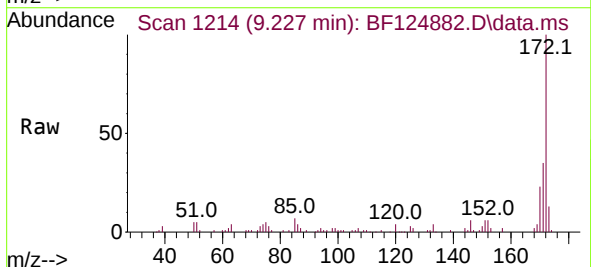
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

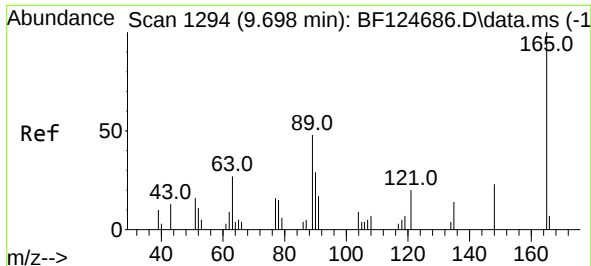
Tgt Ion: 330 Resp: 14088  
Ion Ratio Lower Upper  
330 100  
332 93.6 76.2 114.4  
141 46.9 44.6 66.8



#45  
2-Fluorobiphenyl  
Concen: 66.20 ng  
RT: 9.227 min Scan# 1214  
Delta R.T. -0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion: 172 Resp: 73034  
Ion Ratio Lower Upper  
172 100  
171 34.6 26.5 39.7  
170 23.0 18.8 28.2

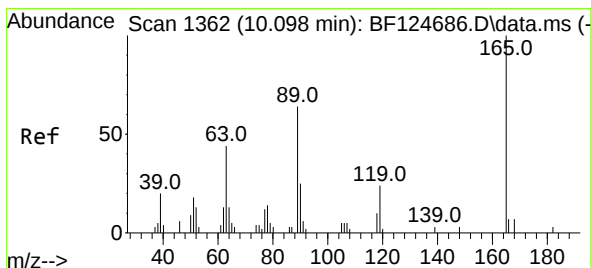
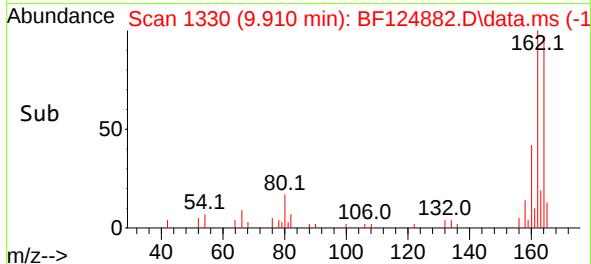
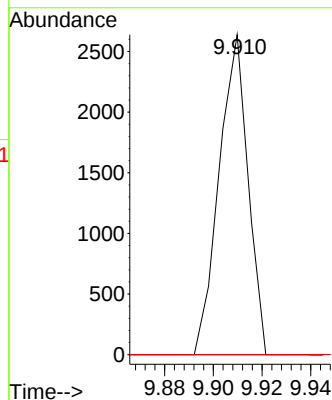
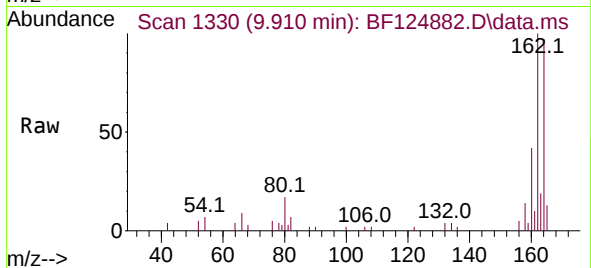




#51  
2,6-Dinitrotoluene  
Concen: 8.82 ng  
RT: 9.910 min Scan# 1330  
Delta R.T. 0.212 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

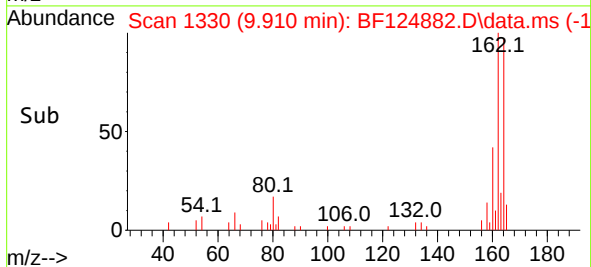
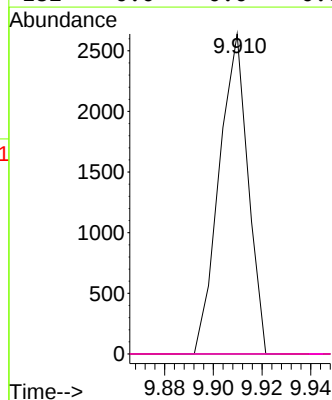
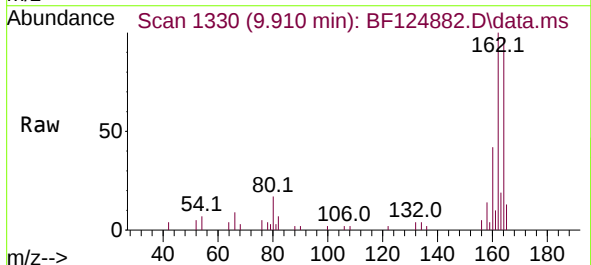
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

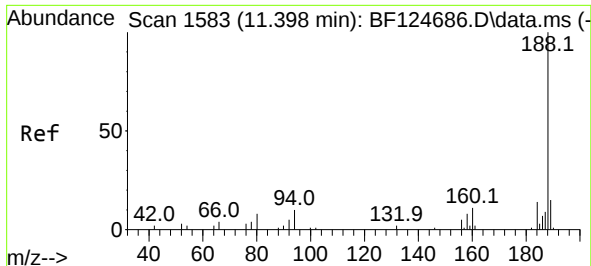
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Ion Ratio Lower Upper  
165 100  
63 0.0 42.6 63.8#  
89 0.0 40.6 60.8#



#57  
2,4-Dinitrotoluene  
Concen: 6.50 ng  
RT: 9.910 min Scan# 1330  
Delta R.T. -0.188 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion:165 Resp: 2174  
Ion Ratio Lower Upper  
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63 0.0 40.9 61.3#  
89 0.0 59.7 89.5#  
182 0.0 0.0 0.0

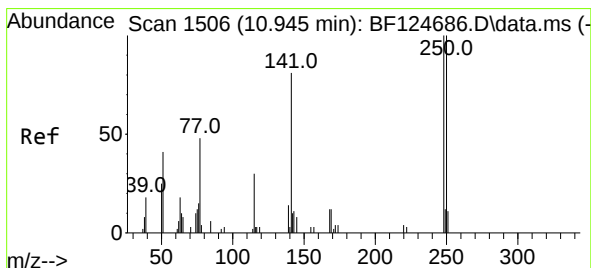
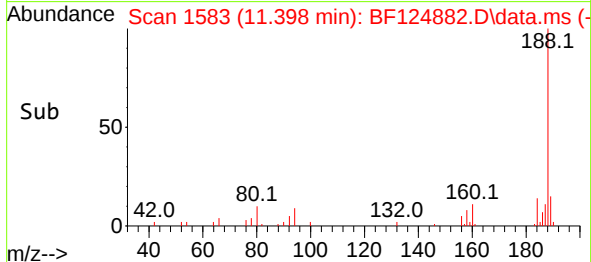
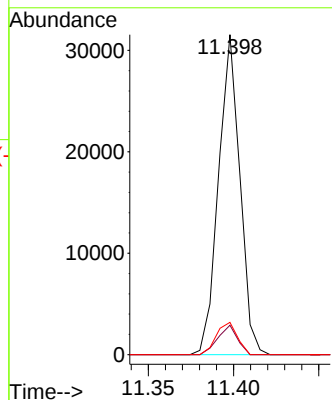
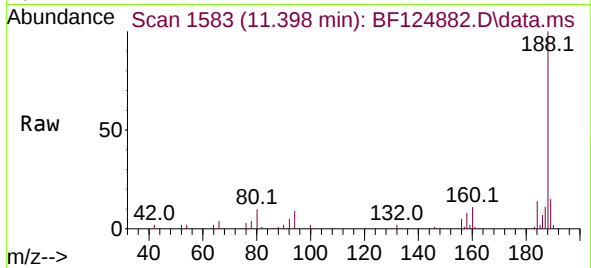




#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. -0.000 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

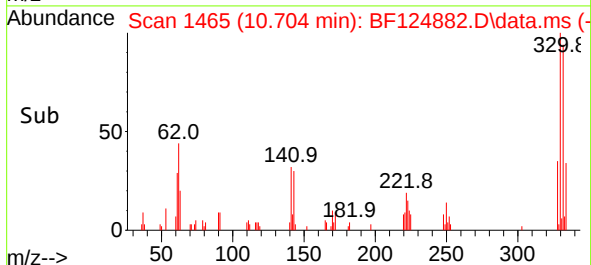
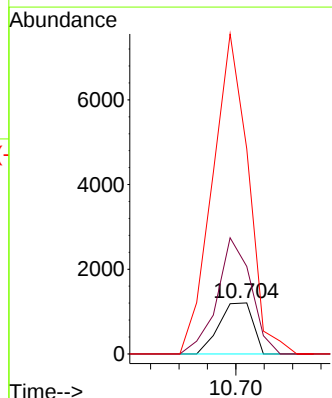
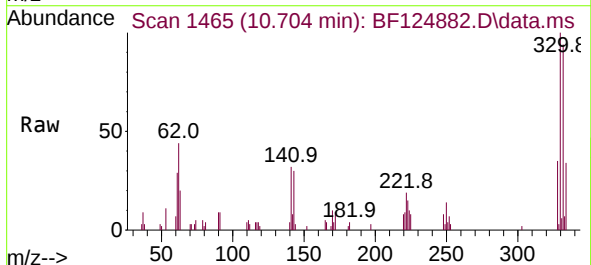
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

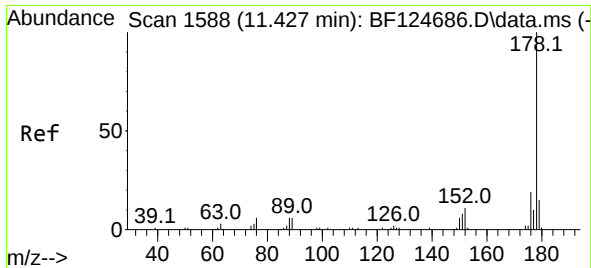
Tgt Ion:188 Resp: 27501  
Ion Ratio Lower Upper  
188 100  
94 9.2 6.7 10.1  
80 10.1 7.5 11.3



#67  
4-Bromophenyl-phenylether  
Concen: 3.42 ng  
RT: 10.704 min Scan# 1465  
Delta R.T. -0.241 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion:248 Resp: 997  
Ion Ratio Lower Upper  
248 100  
250 171.5 74.2 111.4#  
141 402.4 60.4 90.6#

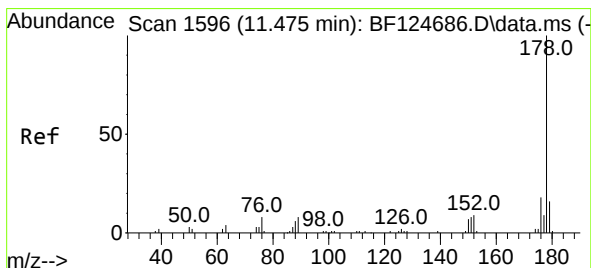
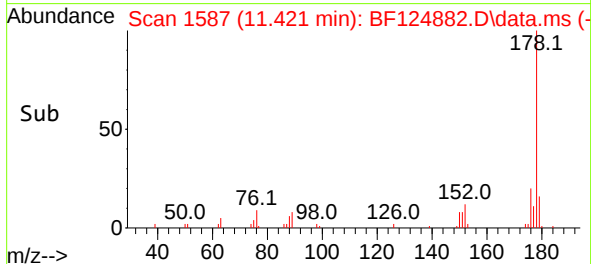
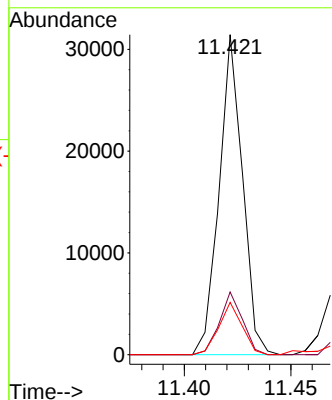
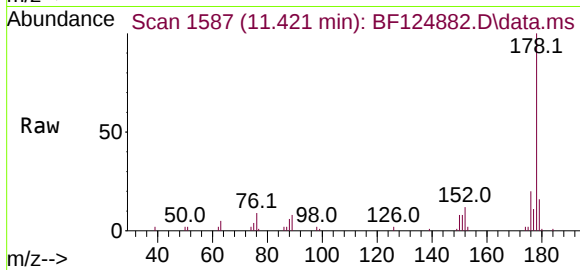




#71  
Phenanthrene  
Concen: 16.20 ng  
RT: 11.421 min Scan# 1587  
Delta R.T. -0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

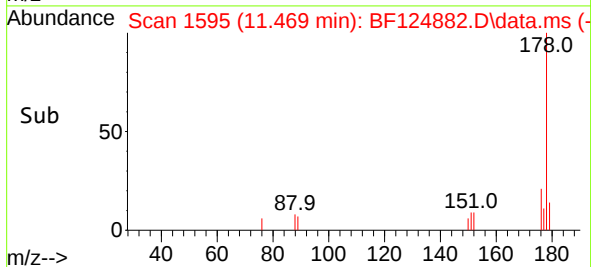
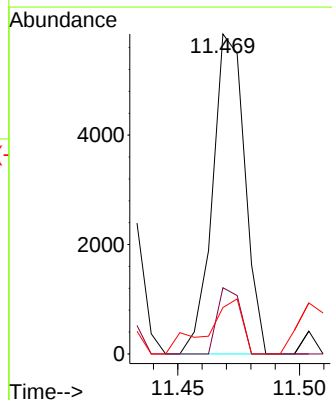
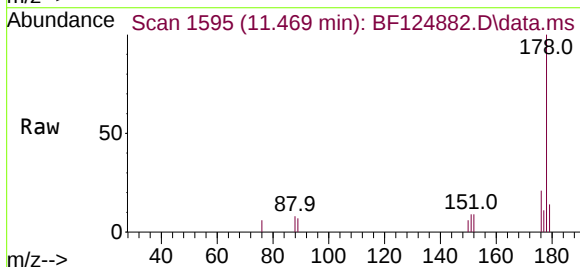
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

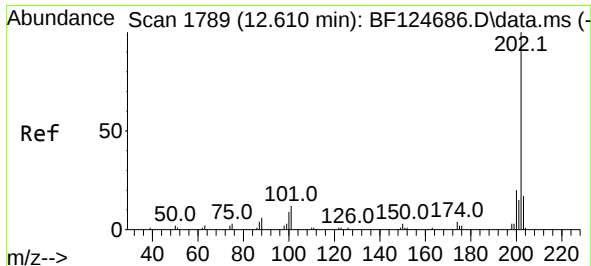
Tgt Ion:178 Resp: 23962  
Ion Ratio Lower Upper  
178 100  
176 19.6 14.7 22.1  
179 16.3 11.5 17.3



#72  
Anthracene  
Concen: 3.64 ng  
RT: 11.469 min Scan# 1595  
Delta R.T. -0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion:178 Resp: 5387  
Ion Ratio Lower Upper  
178 100  
176 20.7 14.3 21.5  
179 14.5 12.2 18.4

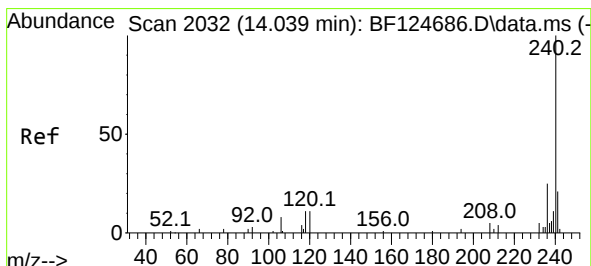
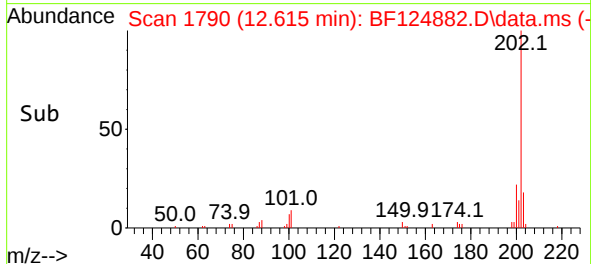
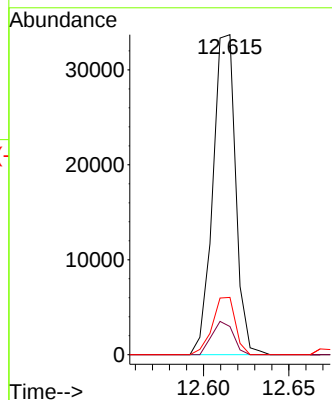
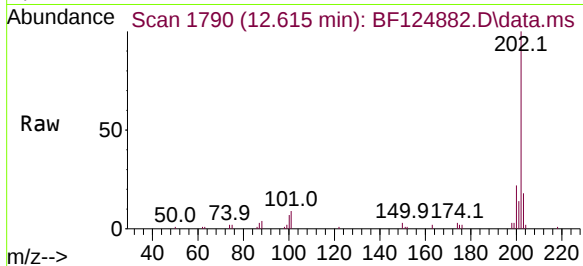




#75  
Fluoranthene  
Concen: 20.78 ng  
RT: 12.615 min Scan# 1790  
Delta R.T. 0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

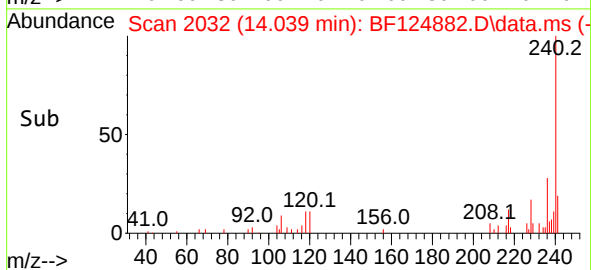
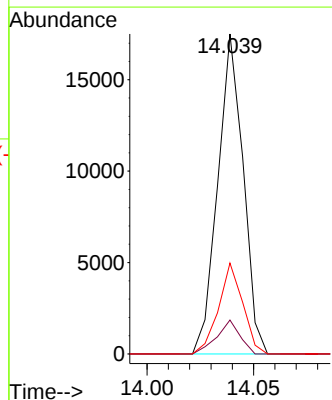
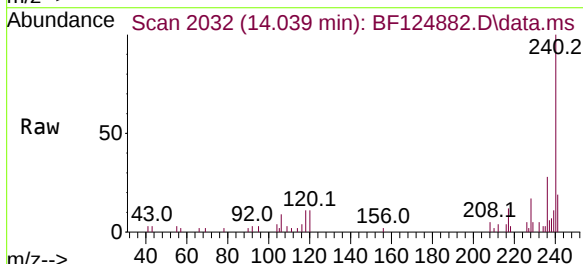
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

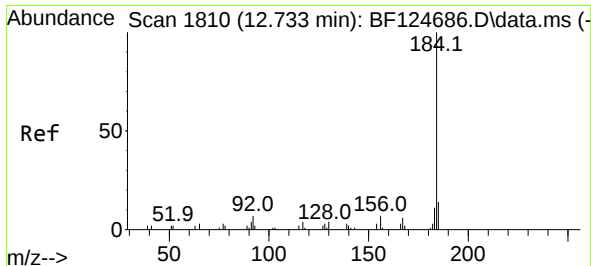
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 31364    |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 8.8   | 0.0 30.7 |
| 203         | 17.9  | 0.0 36.3 |



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.039 min Scan# 2032  
Delta R.T. -0.000 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:240 | Resp: | 14494      |
| Ion Ratio   | Lower | Upper      |
| 240         | 100   |            |
| 120         | 10.6  | 10.8 16.2# |
| 236         | 28.4  | 21.6 32.4  |

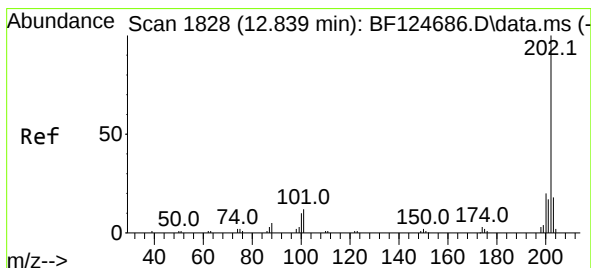
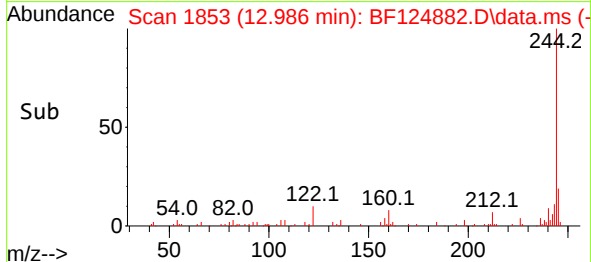
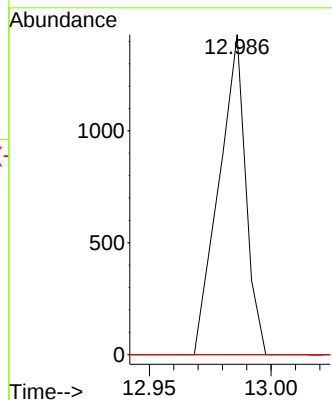
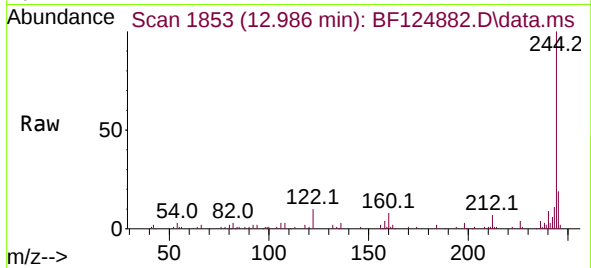




#77  
Benzidine  
Concen: 2.68 ng  
RT: 12.986 min Scan# 1853  
Delta R.T. 0.253 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

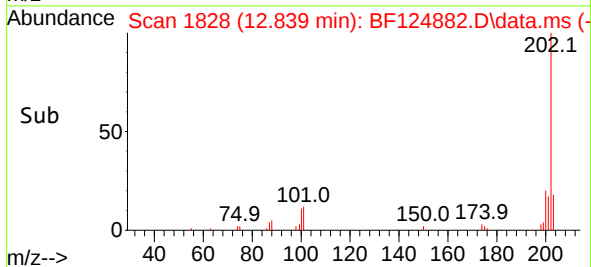
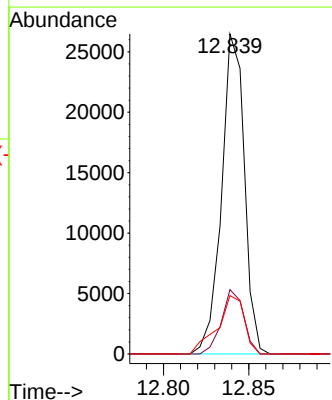
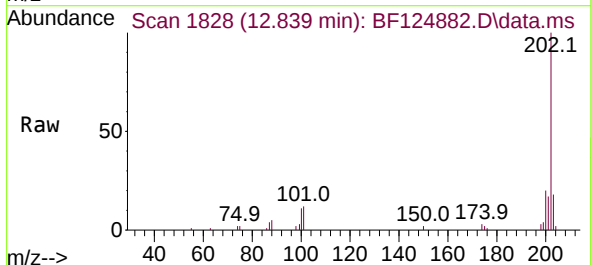
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

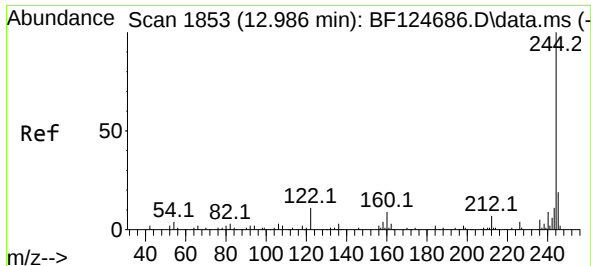
Tgt Ion:184 Resp: 1095  
Ion Ratio Lower Upper  
184 100  
185 0.0 10.8 16.2#  
183 0.0 8.1 12.1#



#78  
Pyrene  
Concen: 21.42 ng  
RT: 12.839 min Scan# 1828  
Delta R.T. -0.000 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion:202 Resp: 24580  
Ion Ratio Lower Upper  
202 100  
200 20.1 15.3 22.9  
203 18.3 13.4 20.0

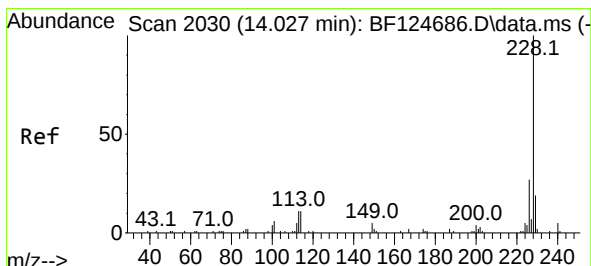
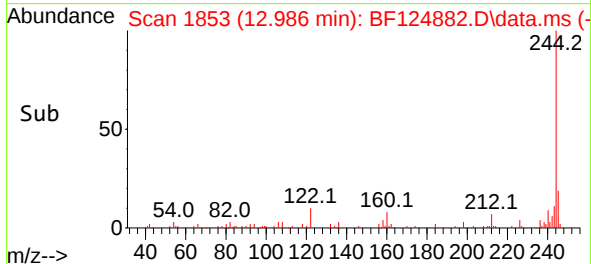
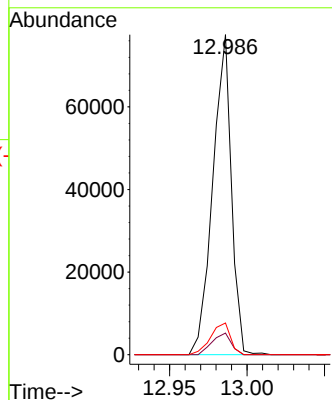
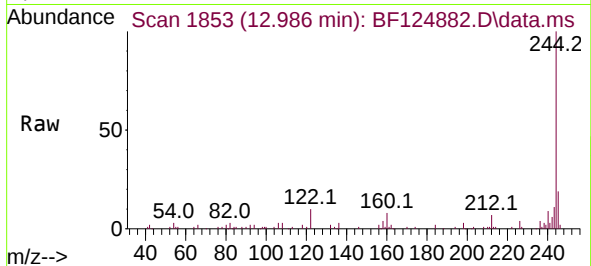




#79  
 Terphenyl-d14  
 Concen: 76.28 ng  
 RT: 12.986 min Scan# 1853  
 Delta R.T. -0.000 min  
 Lab File: BF124882.D  
 Acq: 30 Jul 2021 18:26

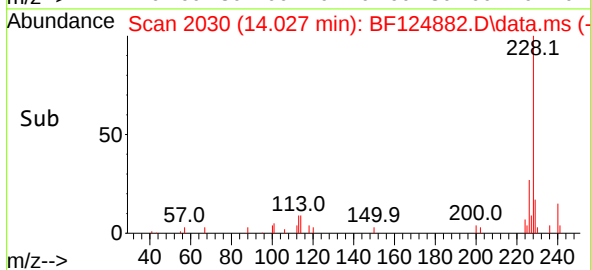
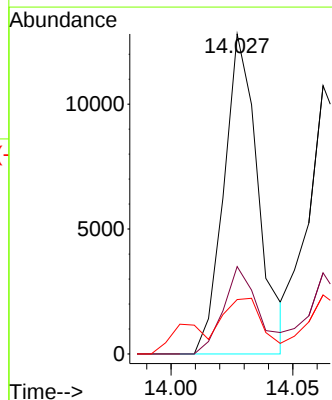
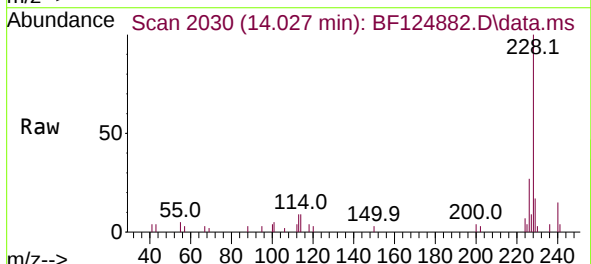
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-4(1.0-2.0)

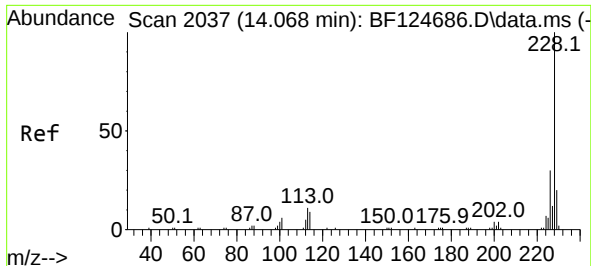
Tgt Ion:244 Resp: 64496  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.9 8.9  
 122 9.9 9.0 13.4



#81  
 Benzo(a)anthracene  
 Concen: 13.24 ng  
 RT: 14.027 min Scan# 2030  
 Delta R.T. -0.000 min  
 Lab File: BF124882.D  
 Acq: 30 Jul 2021 18:26

Tgt Ion:228 Resp: 12544  
 Ion Ratio Lower Upper  
 228 100  
 226 27.3 21.6 32.4  
 229 17.0 15.6 23.4

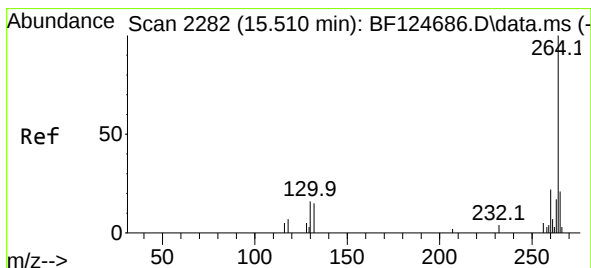
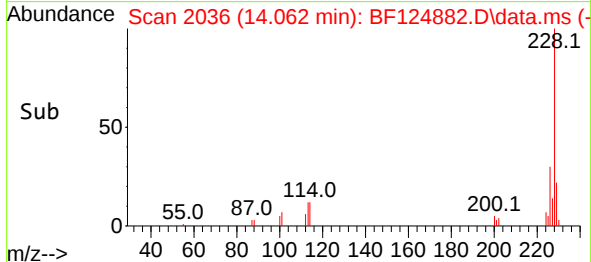
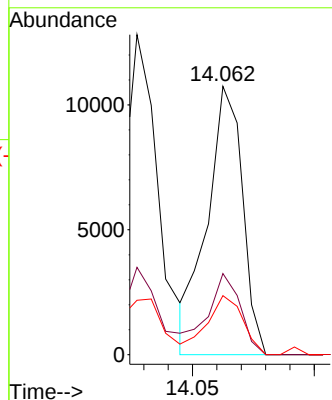
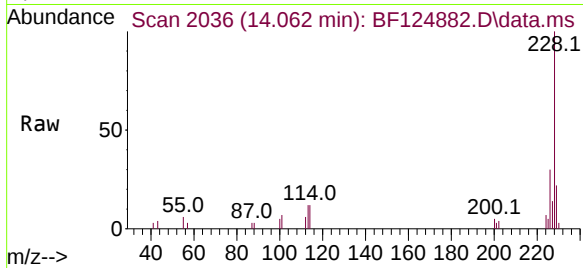




#83  
Chrysene  
Concen: 11.84 ng  
RT: 14.062 min Scan# 2036  
Delta R.T. -0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

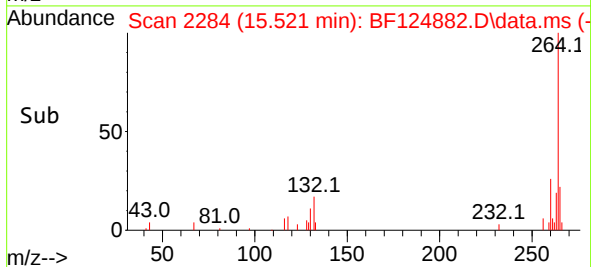
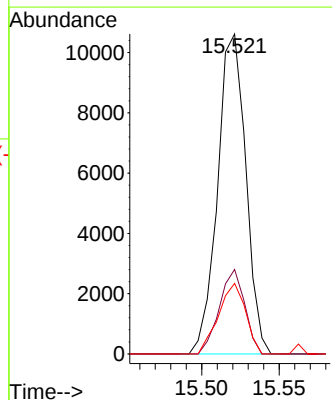
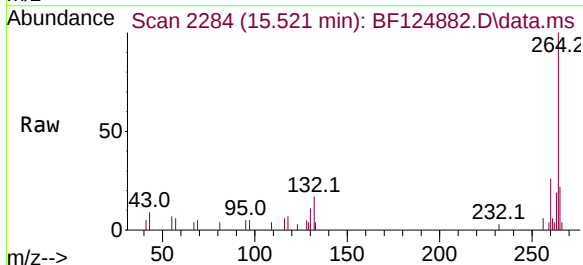
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

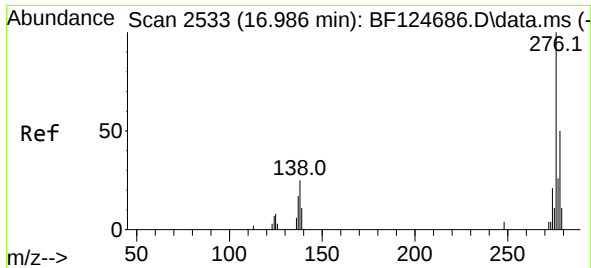
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:228 | Resp: | 10808     |
| Ion Ratio   | Lower | Upper     |
| 228         | 100   |           |
| 226         | 30.2  | 22.6 34.0 |
| 229         | 22.0  | 15.9 23.9 |



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.521 min Scan# 2284  
Delta R.T. 0.012 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:264 | Resp: | 13450     |
| Ion Ratio   | Lower | Upper     |
| 264         | 100   |           |
| 260         | 26.4  | 19.6 29.4 |
| 265         | 22.0  | 17.2 25.8 |

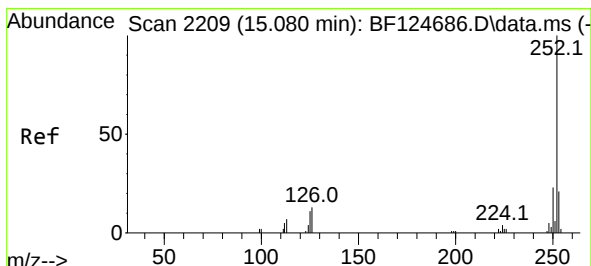
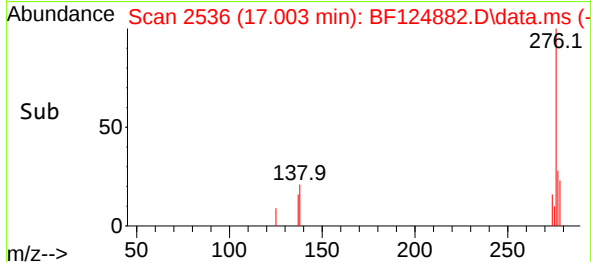
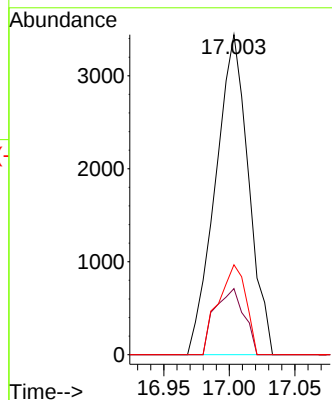
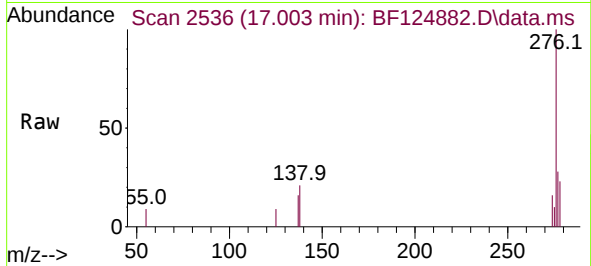




#87  
Indeno(1,2,3-cd)pyrene  
Concen: 7.77 ng  
RT: 17.003 min Scan# 2536  
Delta R.T. 0.018 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

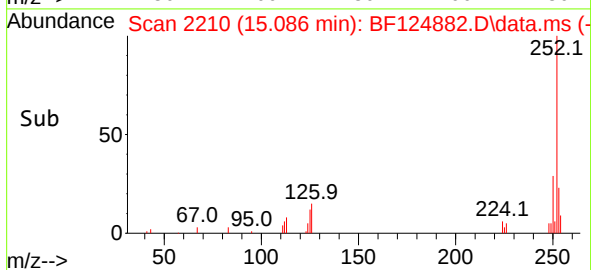
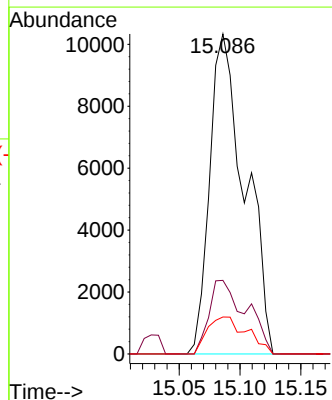
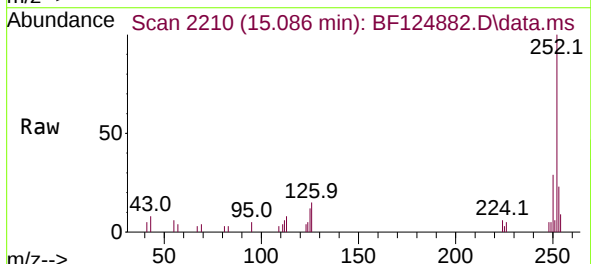
Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

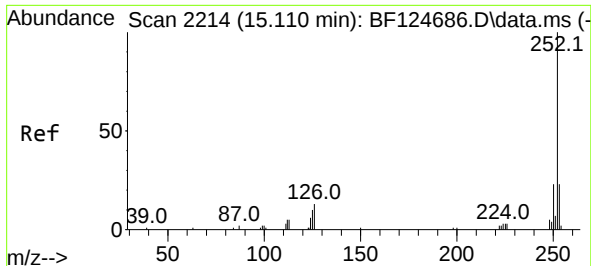
Tgt Ion:276 Resp: 6036  
Ion Ratio Lower Upper  
276 100  
138 18.3 24.1 36.1#  
277 23.6 18.8 28.2



#88  
Benzo(b)fluoranthene  
Concen: 21.94 ng  
RT: 15.086 min Scan# 2210  
Delta R.T. 0.006 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion:252 Resp: 20772  
Ion Ratio Lower Upper  
252 100  
253 23.0 16.8 25.2  
125 11.6 9.8 14.8





#89

Benzo(k)fluoranthene

Concen: 24.01 ng

RT: 15.086 min Scan# 2210

Delta R.T. -0.024 min

Lab File: BF124882.D

Acq: 30 Jul 2021 18:26

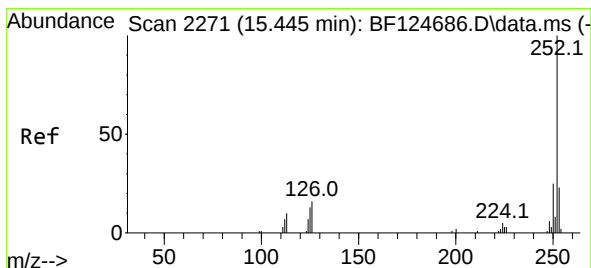
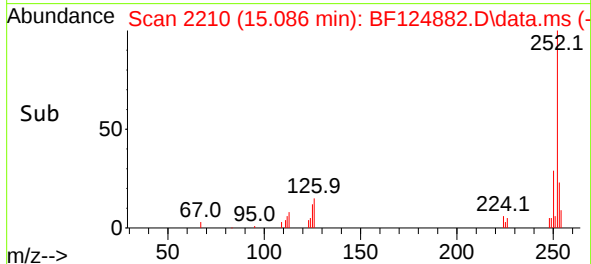
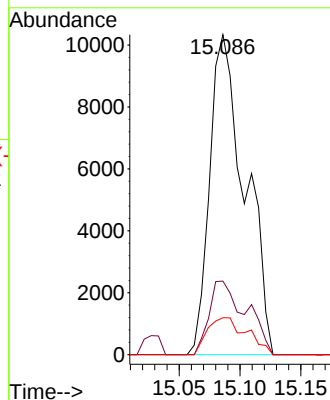
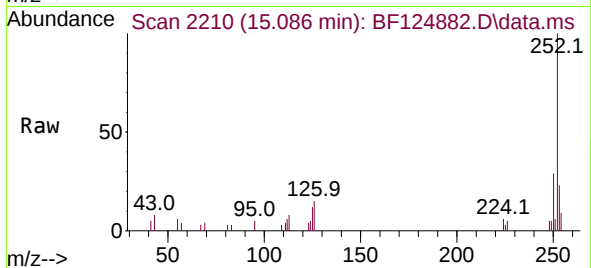
Instrument :

BNA\_F

ClientSampleId :

SB-4(1.0-2.0)

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 20772     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 23.0  | 17.8 26.8 |
| 125         | 11.6  | 7.2 10.8# |



#90

Benzo(a)pyrene

Concen: 13.50 ng

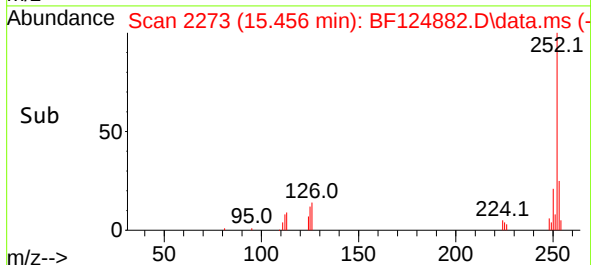
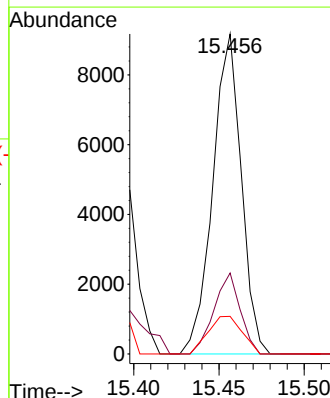
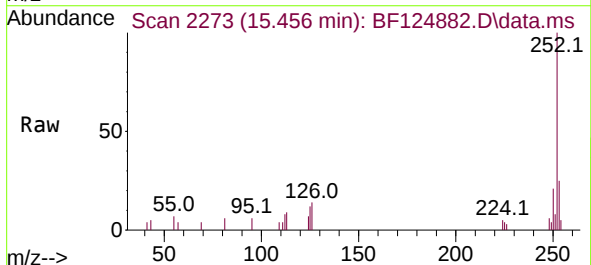
RT: 15.456 min Scan# 2273

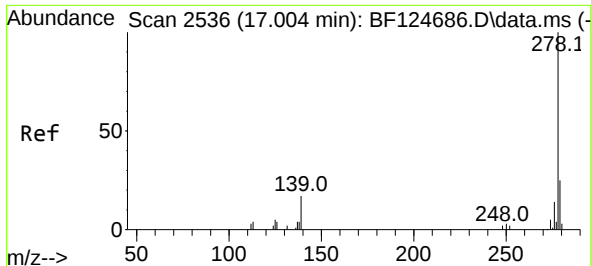
Delta R.T. 0.012 min

Lab File: BF124882.D

Acq: 30 Jul 2021 18:26

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 10677     |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 25.3  | 18.4 27.6 |
| 125         | 11.7  | 9.9 14.9  |

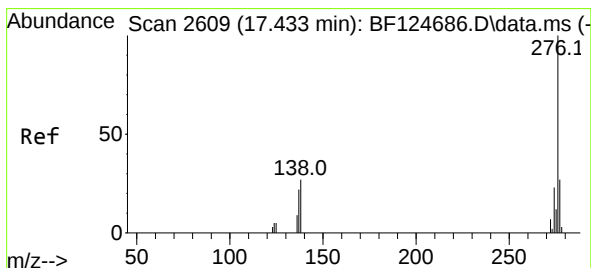
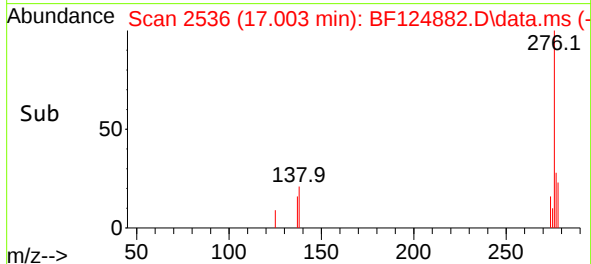
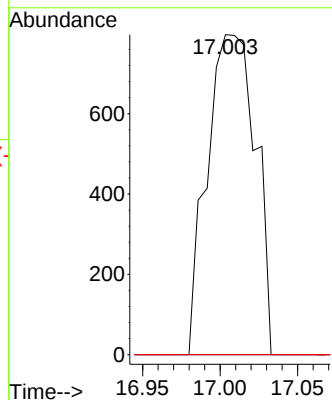
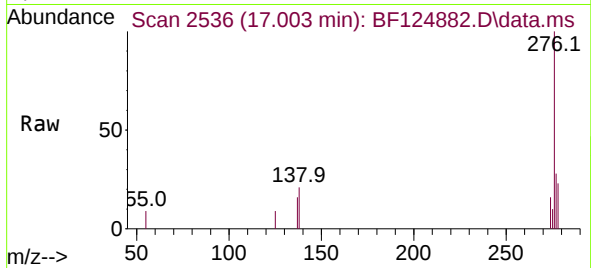




#91  
Dibenzo(a,h)anthracene  
Concen: 2.55 ng  
RT: 17.003 min Scan# 2536  
Delta R.T. -0.000 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Instrument :  
BNA\_F  
ClientSampleId :  
SB-4(1.0-2.0)

Tgt Ion:278 Resp: 1732  
Ion Ratio Lower Upper  
278 100  
139 0.0 14.9 22.3#  
279 0.0 19.7 29.5#



#92  
Benzo(g,h,i)perylene  
Concen: 8.27 ng  
RT: 17.450 min Scan# 2612  
Delta R.T. 0.018 min  
Lab File: BF124882.D  
Acq: 30 Jul 2021 18:26

Tgt Ion:276 Resp: 5334  
Ion Ratio Lower Upper  
276 100  
277 29.0 22.0 33.0  
138 23.4 22.2 33.4

