

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032125\  
 Data File : BF142033.D  
 Acq On : 21 Mar 2025 16:51  
 Operator : RC/JU  
 Sample : Q1619-11  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4

Quant Time: Mar 21 17:11:44 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031025.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 10 15:46:22 2025  
 Response via : Initial Calibration

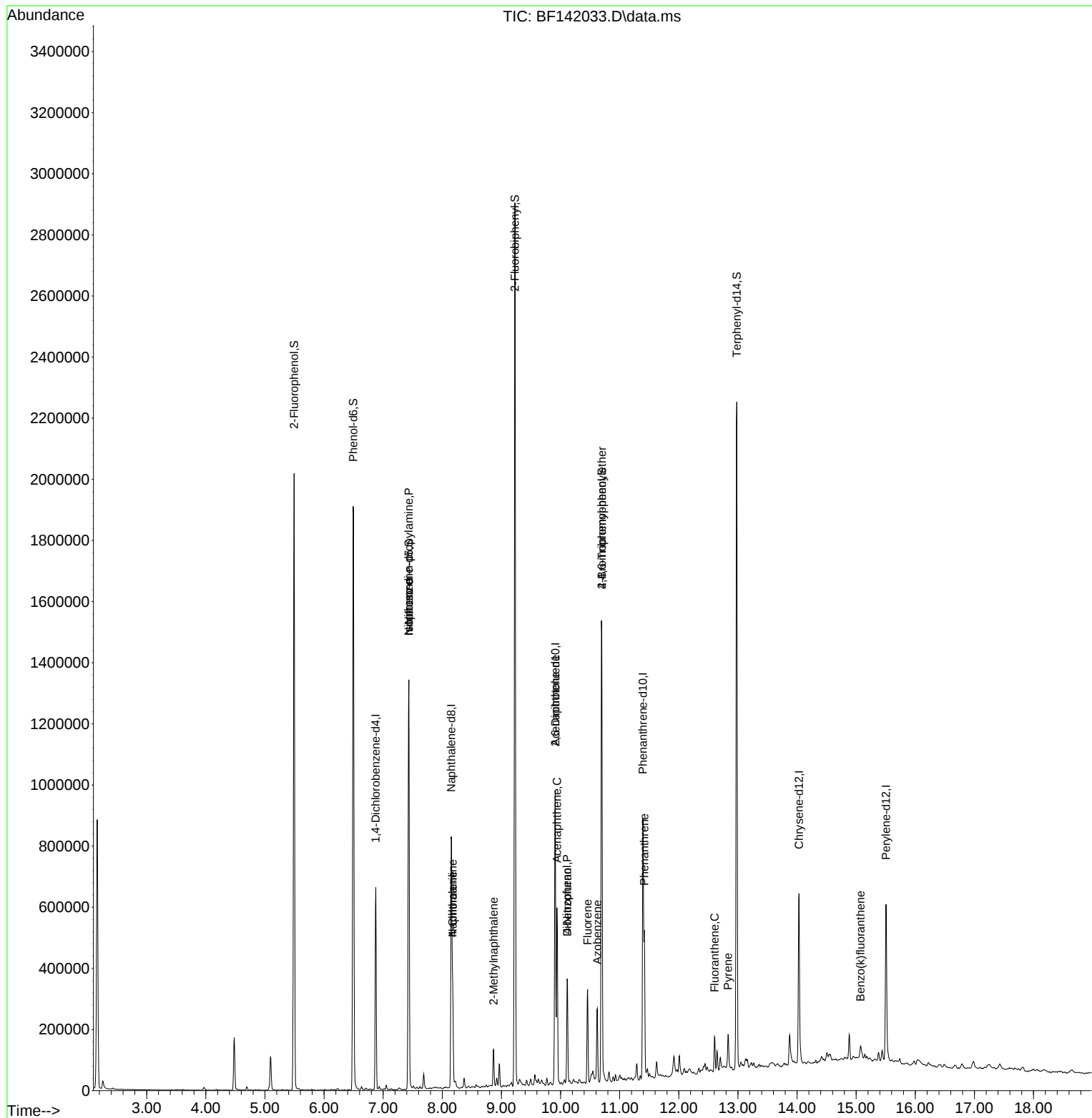
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 140526   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.151  | 136  | 545257   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10          | 9.910  | 164  | 288267   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.392 | 188  | 443263   | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12              | 14.033 | 240  | 268691   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 15.504 | 264  | 309109   | 20.000 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.493  | 112  | 779323   | 92.556 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.493  | 99   | 956863   | 89.256 | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 7.434  | 82   | 612169   | 63.182 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.698 | 330  | 279173   | 76.338 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.228  | 172  | 1251232  | 66.011 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.980 | 244  | 1125704  | 61.941 | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 7.434  | 70   | 85749    | 12.448 | ng    | # 77     |
| 25) Isophorone                | 7.434  | 82   | 602063   | 35.153 | ng    | # 64     |
| 31) Naphthalene               | 8.175  | 128  | 198135   | 7.074  | ng    | 98       |
| 33) 4-Chloroaniline           | 8.175  | 127  | 25953    | 2.625  | ng    | # 32     |
| 37) 2-Methylnaphthalene       | 8.869  | 142  | 49438    | 2.641  | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 9.910  | 165  | 38229    | 9.096  | ng    | # 23     |
| 52) Acenaphthene              | 9.939  | 154  | 179507   | 10.544 | ng    | 99       |
| 55) Dibenzofuran              | 10.116 | 168  | 191941   | 7.890  | ng    | 98       |
| 56) 4-Nitrophenol             | 10.110 | 139  | 79116    | 24.607 | ng    | # 6      |
| 58) Fluorene                  | 10.457 | 166  | 124869   | 6.656  | ng    | 99       |
| 63) Azobenzene                | 10.622 | 77   | 59002    | 3.153  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether | 10.698 | 248  | 17666    | 3.173  | ng    | # 1      |
| 71) Phenanthrene              | 11.416 | 178  | 252640   | 10.552 | ng    | 98       |
| 75) Fluoranthene              | 12.604 | 202  | 67718    | 2.666  | ng    | 98       |
| 78) Pyrene                    | 12.833 | 202  | 65452    | 2.816  | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 15.074 | 252  | 38380    | 2.117  | ng    | # 95     |
| -----                         |        |      |          |        |       |          |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF032125\  
Data File : BF142033.D  
Acq On : 21 Mar 2025 16:51  
Operator : RC/JU  
Sample : Q1619-11  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Quant Time: Mar 21 17:11:44 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF031025.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Mar 10 15:46:22 2025  
Response via : Initial Calibration

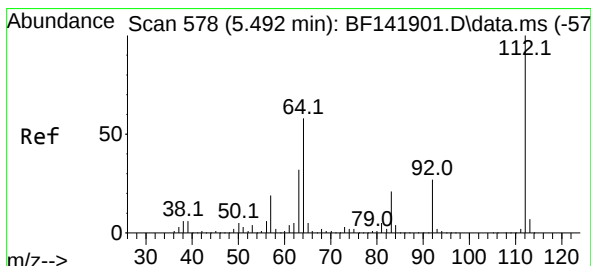
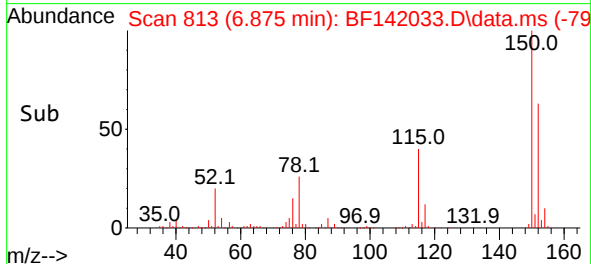
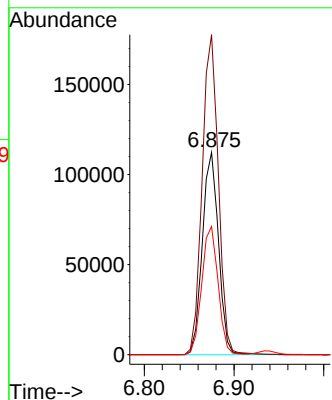
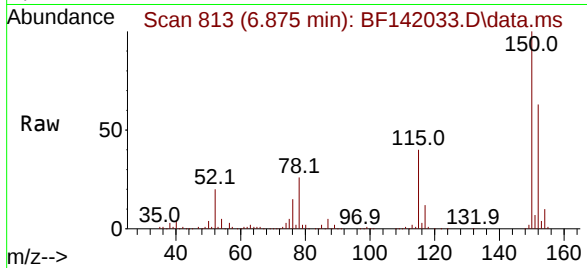




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.875 min Scan# 814  
Delta R.T. -0.006 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

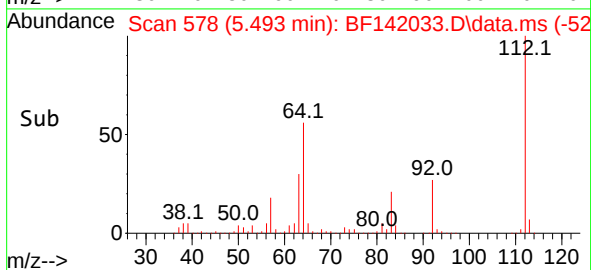
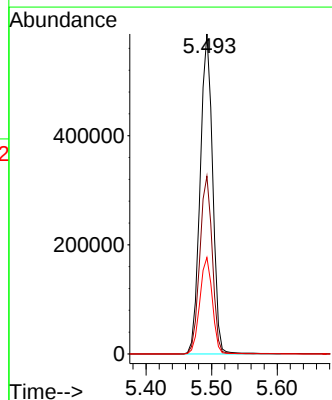
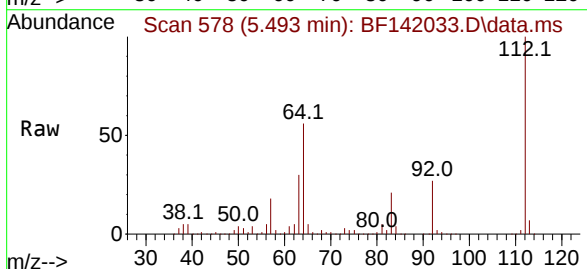
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Tgt Ion:152 Resp: 140526  
Ion Ratio Lower Upper  
152 100  
150 158.2 127.4 191.2  
115 63.3 51.9 77.9



#5  
2-Fluorophenol  
Concen: 92.556 ng  
RT: 5.493 min Scan# 578  
Delta R.T. 0.000 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion:112 Resp: 779323  
Ion Ratio Lower Upper  
112 100  
64 55.6 46.5 69.7  
63 30.2 25.4 38.2



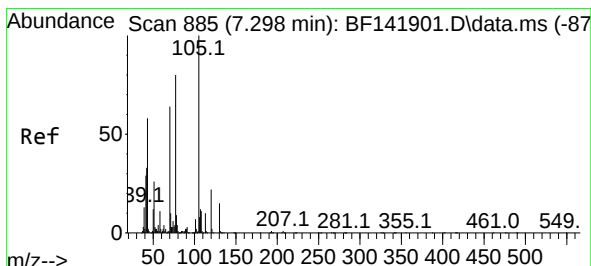
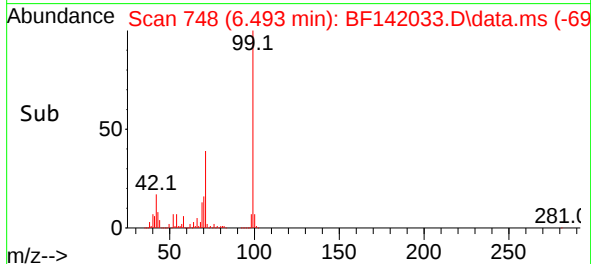
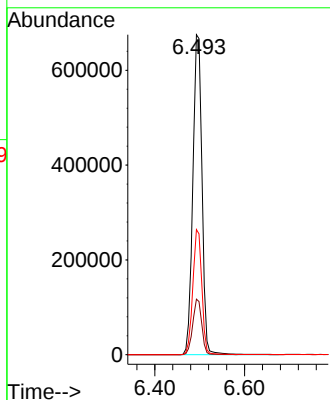
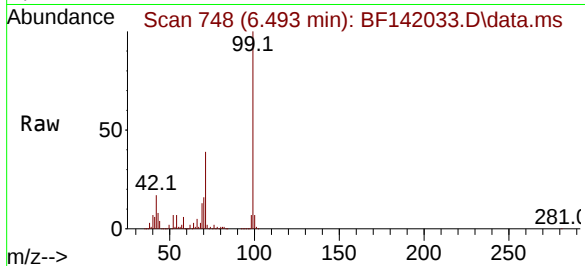


#7  
Phenol-d6  
Concen: 89.256 ng  
RT: 6.493 min Scan# 74  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

Tgt Ion: 99 Resp: 956863

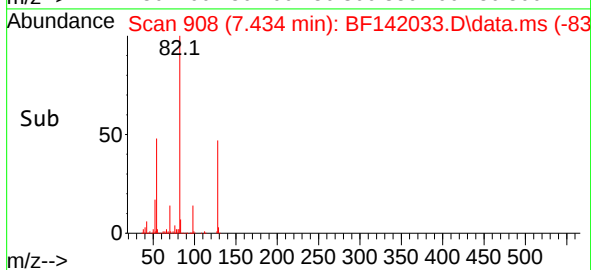
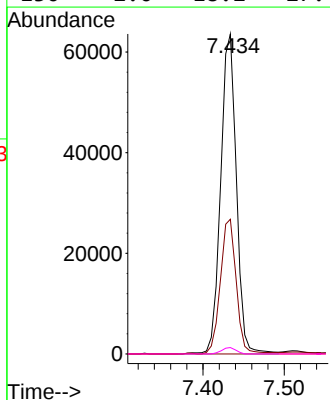
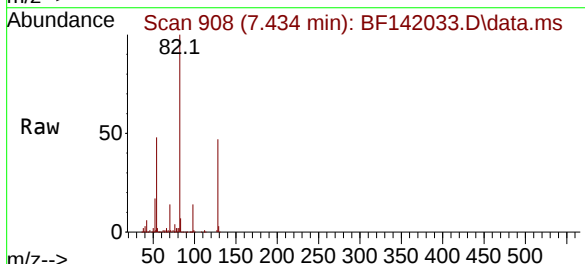
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.4  | 14.6  | 21.8  |
| 71  | 39.1  | 30.8  | 46.2  |

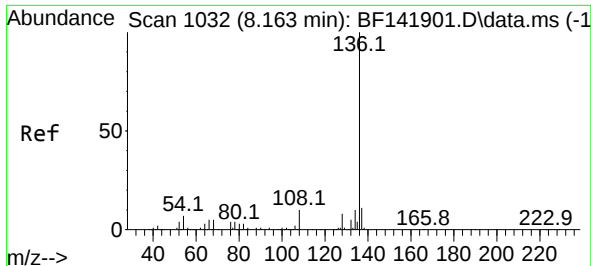


#19  
n-Nitroso-di-n-propylamine  
Concen: 12.448 ng  
RT: 7.434 min Scan# 908  
Delta R.T. 0.136 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion: 70 Resp: 85749

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 42.1  | 41.4  | 62.0  |
| 101 | 0.0   | 8.2   | 12.2# |
| 130 | 2.0   | 18.2  | 27.4# |



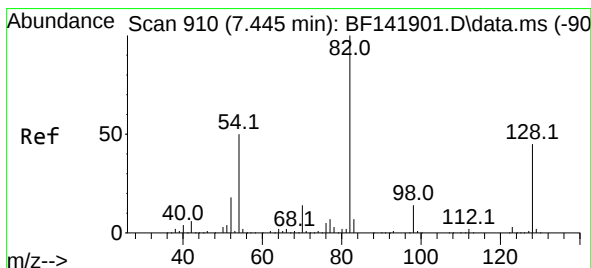
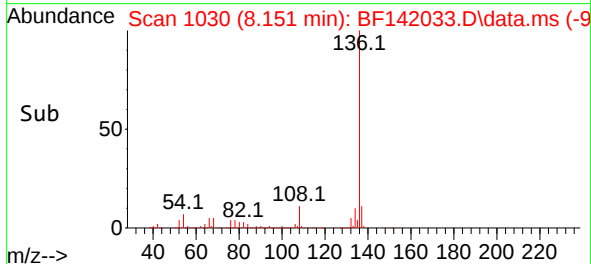
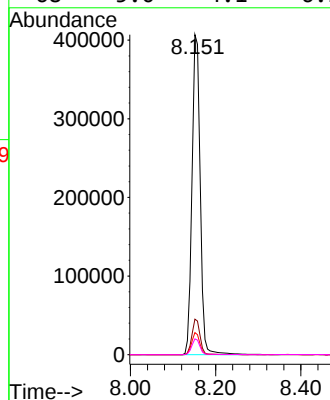
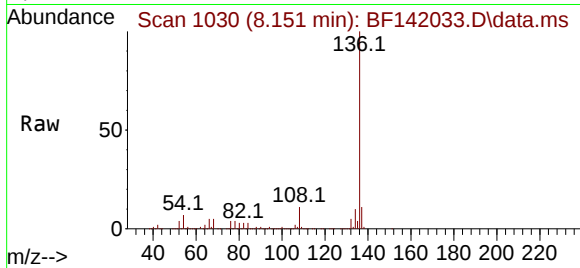


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.151 min Scan# 1030  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion:136 Resp: 545257

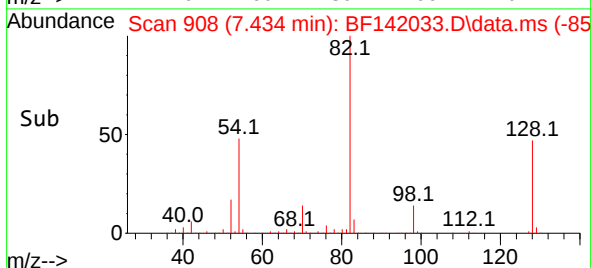
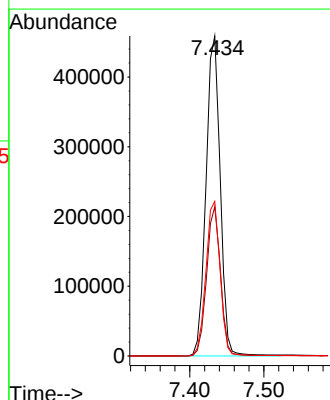
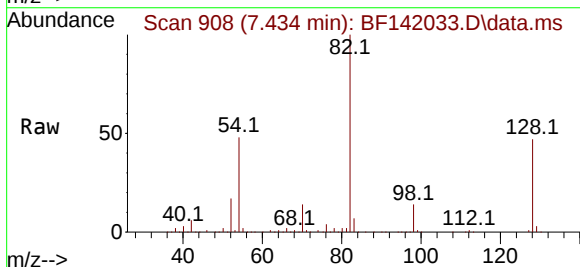
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 8.8   | 13.2  |
| 54  | 6.9   | 5.8   | 8.8   |
| 68  | 5.0   | 4.1   | 6.1   |



#23  
Nitrobenzene-d5  
Concen: 63.182 ng  
RT: 7.434 min Scan# 908  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion: 82 Resp: 612169

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 46.6  | 36.0  | 54.0  |
| 54  | 48.3  | 39.6  | 59.4  |

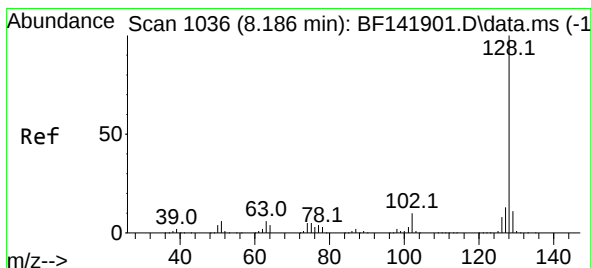
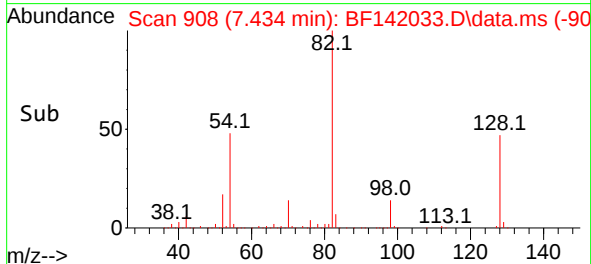
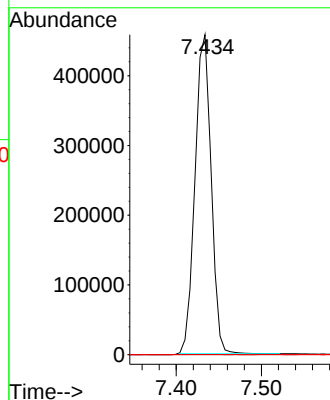
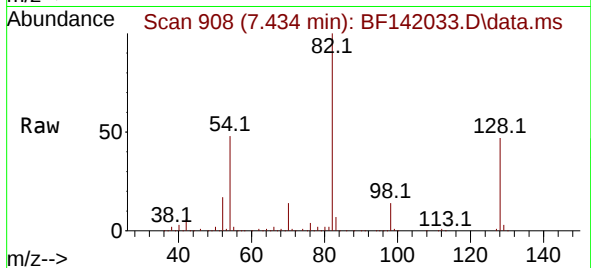




#25  
Isophorone  
Concen: 35.153 ng  
RT: 7.434 min Scan# 90  
Delta R.T. -0.270 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

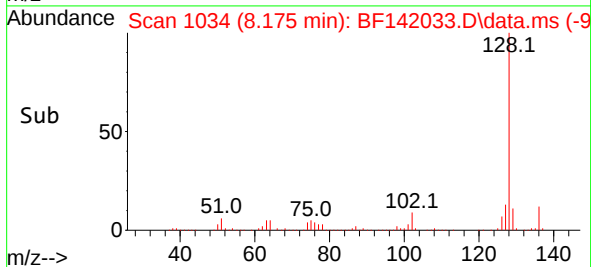
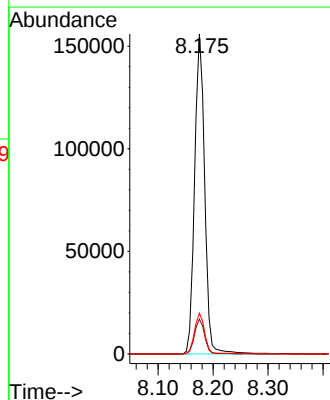
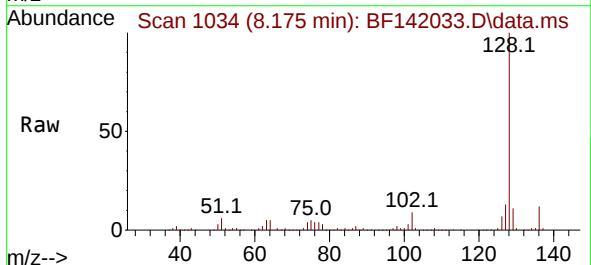
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

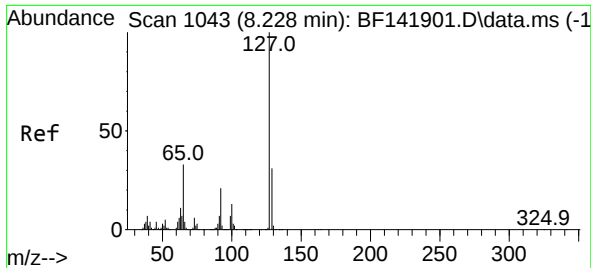
Tgt Ion: 82 Resp: 602063  
Ion Ratio Lower Upper  
82 100  
95 0.0 6.4 9.6#  
138 0.0 14.9 22.3#



#31  
Naphthalene  
Concen: 7.074 ng  
RT: 8.175 min Scan# 1034  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion: 128 Resp: 198135  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.0 13.6  
127 12.7 10.8 16.2





#33  
4-Chloroaniline  
Concen: 2.625 ng  
RT: 8.175 min Scan# 1034  
Delta R.T. -0.053 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

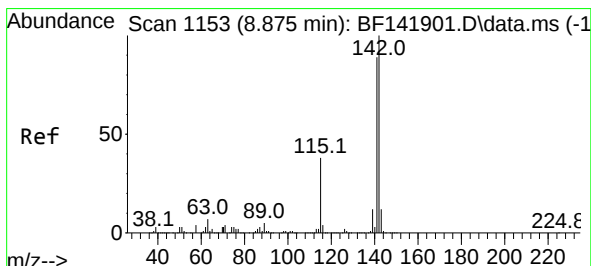
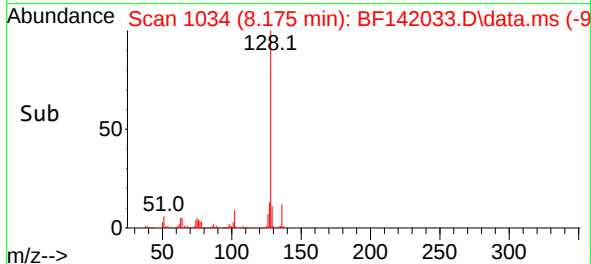
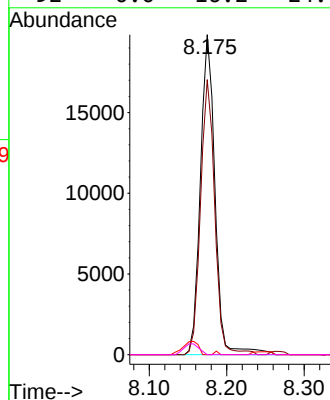
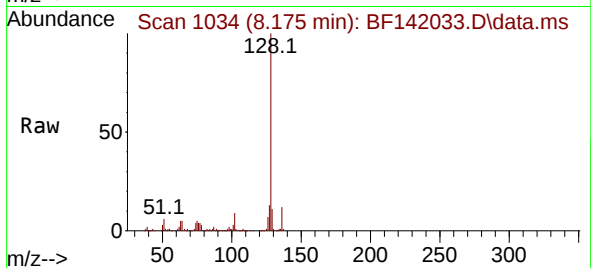
Instrument :

BNA\_F

ClientSampleId :

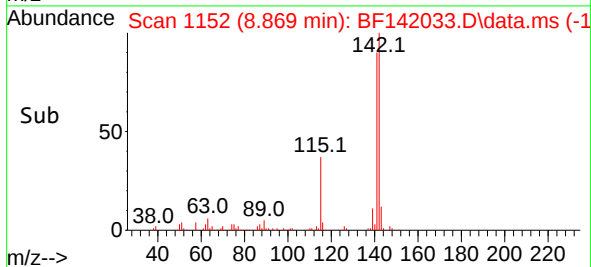
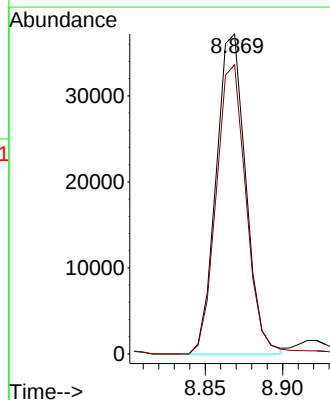
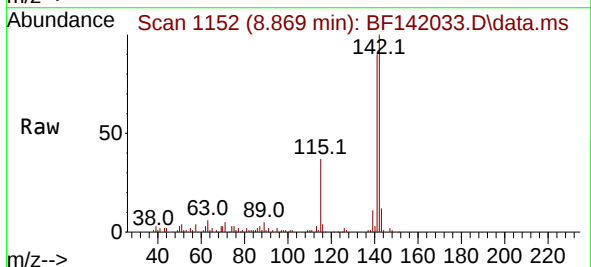
TP-4

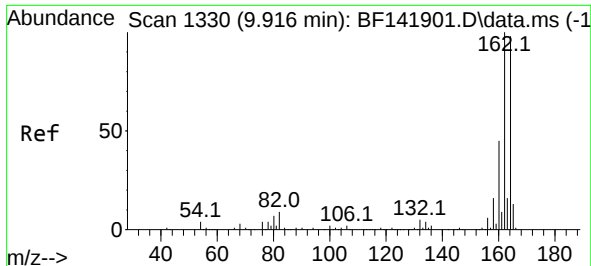
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|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 25953 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 86.0  | 26.2  | 39.4# |
| 65       | 0.0   | 25.4  | 38.2# |
| 92       | 0.0   | 16.2  | 24.4# |



#37  
2-Methylnaphthalene  
Concen: 2.641 ng  
RT: 8.869 min Scan# 1152  
Delta R.T. -0.006 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 49438 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 90.4  | 71.2  | 106.8 |

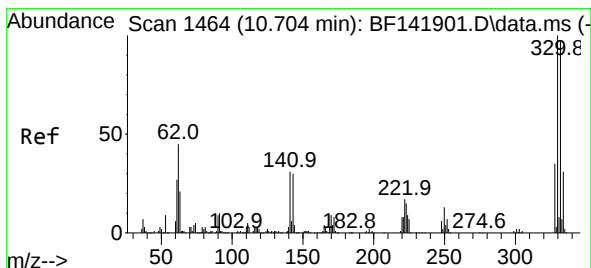
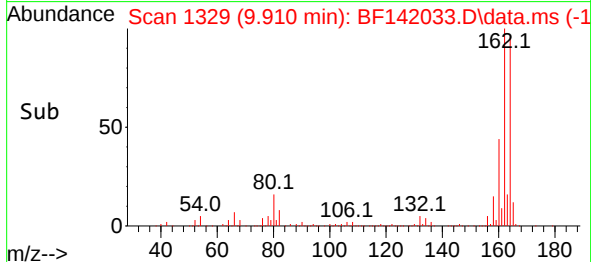
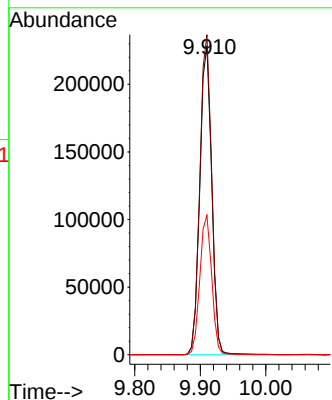
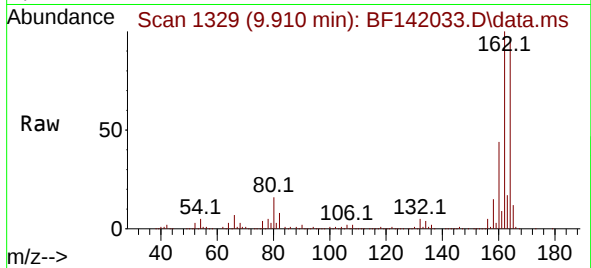




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.910 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

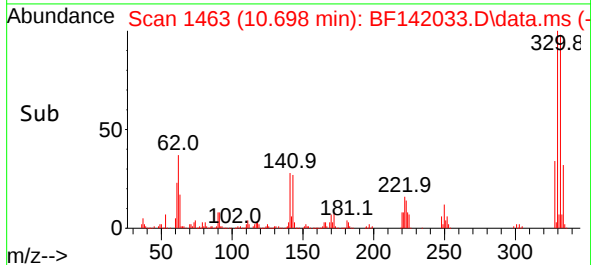
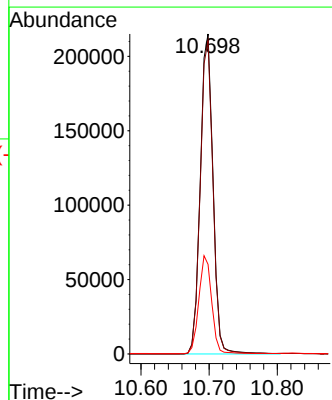
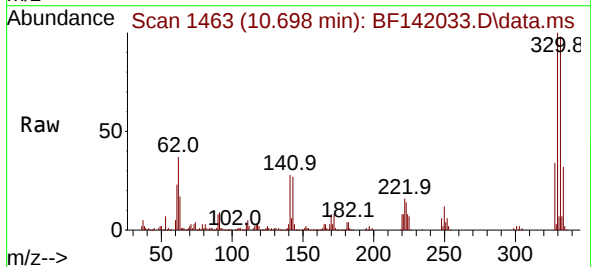
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

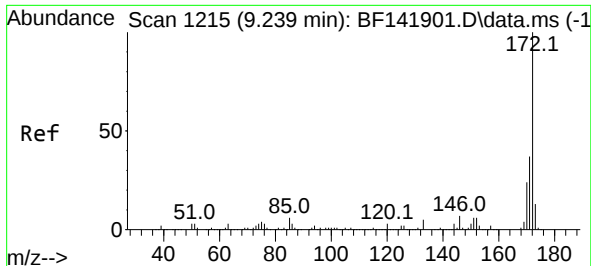
Tgt Ion:164 Resp: 288267  
Ion Ratio Lower Upper  
164 100  
162 103.6 81.8 122.6  
160 45.2 36.7 55.1



#42  
2,4,6-Tribromophenol  
Concen: 76.338 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.006 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion:330 Resp: 279173  
Ion Ratio Lower Upper  
330 100  
332 97.5 77.6 116.4  
141 30.8 24.7 37.1

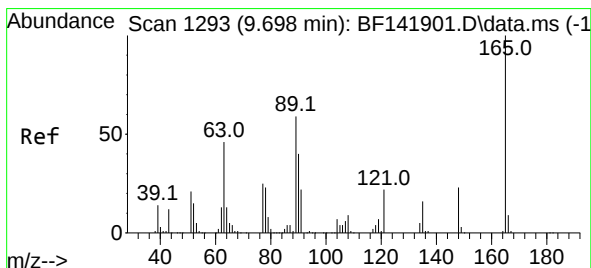
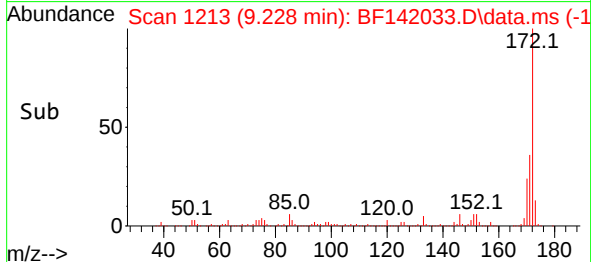
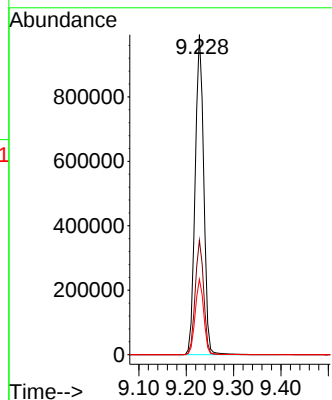
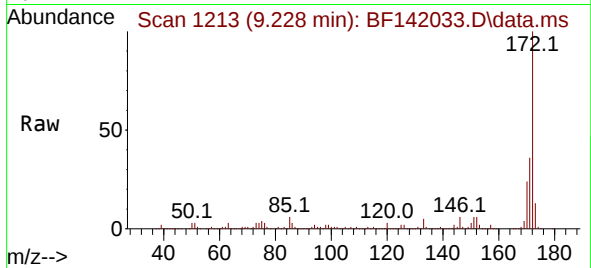




#45  
2-Fluorobiphenyl  
Concen: 66.011 ng  
RT: 9.228 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

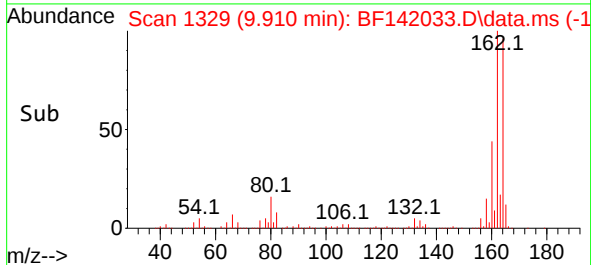
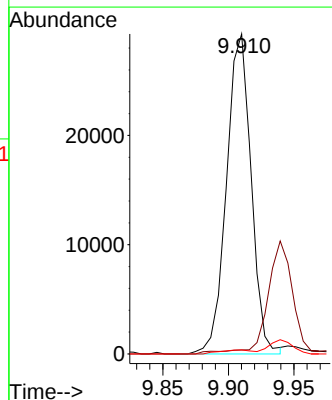
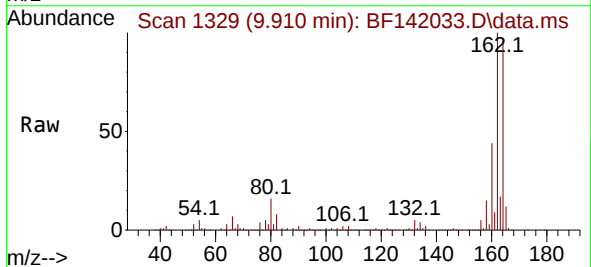
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

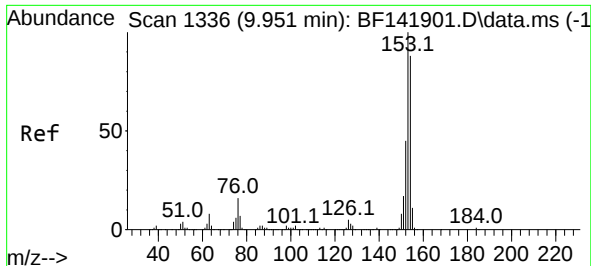
Tgt Ion:172 Resp: 1251232  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.3 43.9  
170 23.5 19.4 29.0



#51  
2,6-Dinitrotoluene  
Concen: 9.096 ng  
RT: 9.910 min Scan# 1329  
Delta R.T. 0.212 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion:165 Resp: 38229  
Ion Ratio Lower Upper  
165 100  
63 1.2 47.0 70.4#  
89 1.2 47.4 71.2#

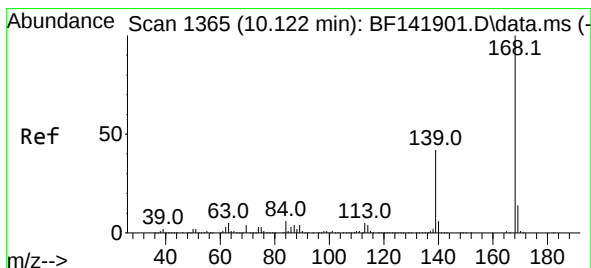
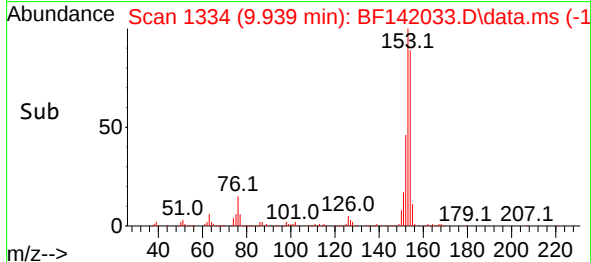
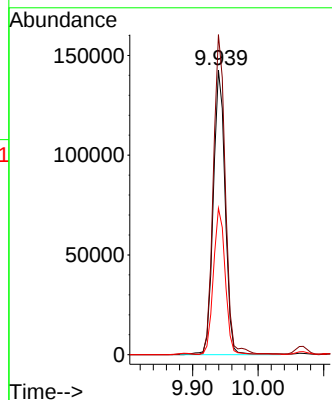
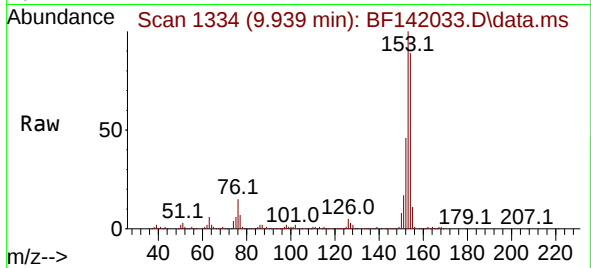




#52  
Acenaphthene  
Concen: 10.544 ng  
RT: 9.939 min Scan# 1334  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

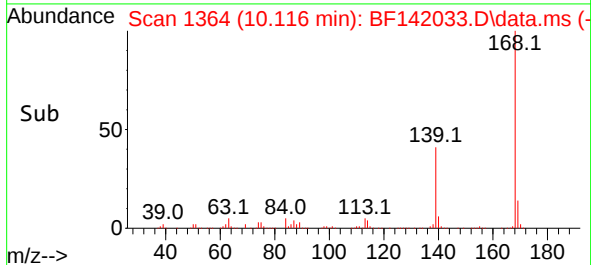
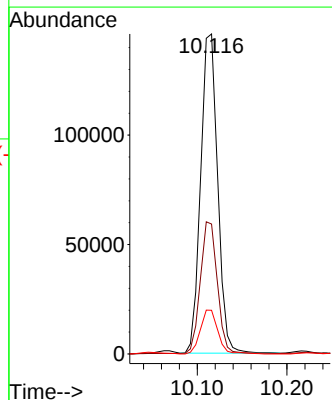
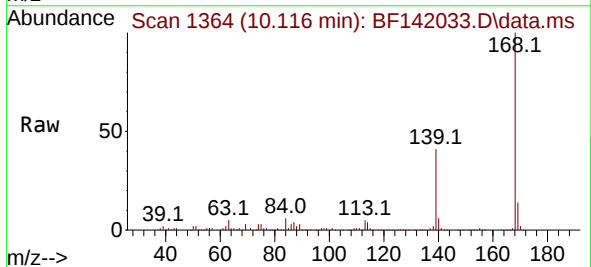
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

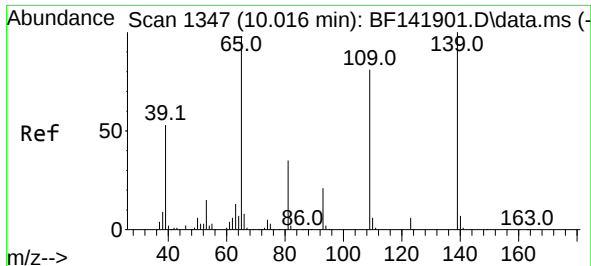
Tgt Ion:154 Resp: 179507  
Ion Ratio Lower Upper  
154 100  
153 112.5 90.7 136.1  
152 51.5 41.1 61.7



#55  
Dibenzofuran  
Concen: 7.890 ng  
RT: 10.116 min Scan# 1364  
Delta R.T. -0.006 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion:168 Resp: 191941  
Ion Ratio Lower Upper  
168 100  
139 40.6 33.9 50.9  
169 13.7 11.0 16.4

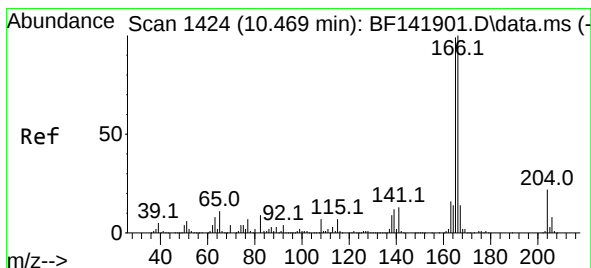
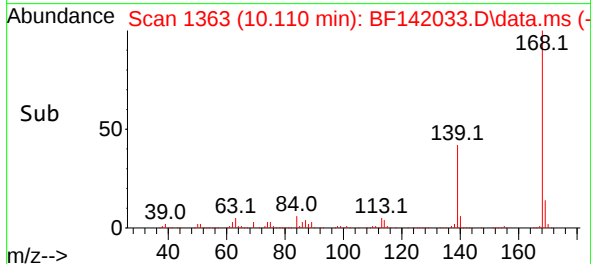
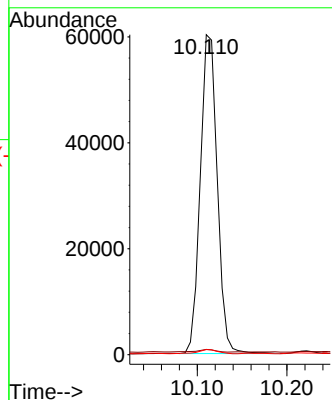
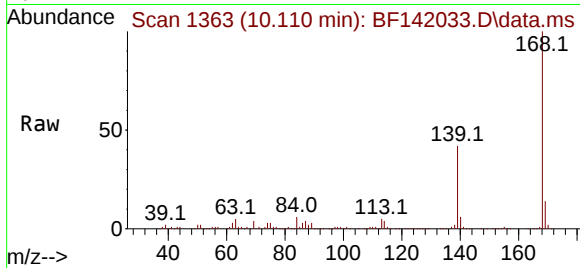




#56  
4-Nitrophenol  
Concen: 24.607 ng  
RT: 10.110 min Scan# 11  
Delta R.T. 0.094 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

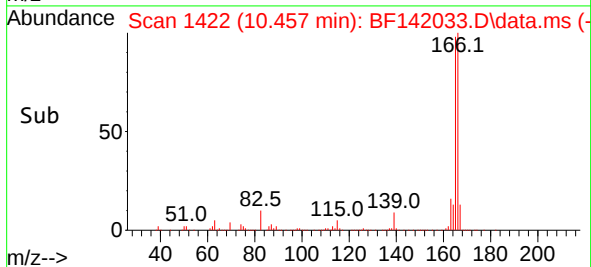
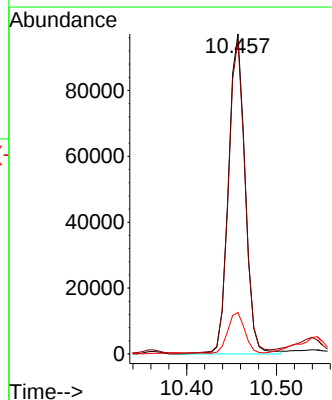
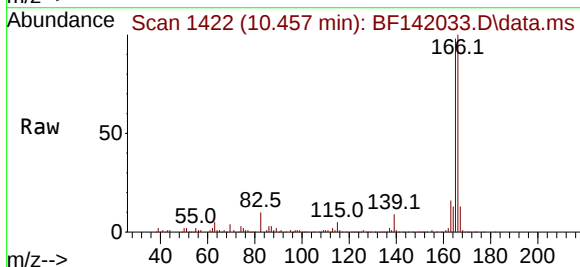
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

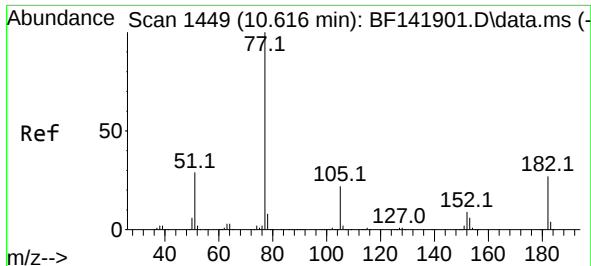
Tgt Ion:139 Resp: 79116  
Ion Ratio Lower Upper  
139 100  
109 1.6 61.6 101.6#  
65 1.6 79.4 119.4#



#58  
Fluorene  
Concen: 6.656 ng  
RT: 10.457 min Scan# 1422  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion:166 Resp: 124869  
Ion Ratio Lower Upper  
166 100  
165 98.1 79.0 118.4  
167 12.9 11.0 16.4

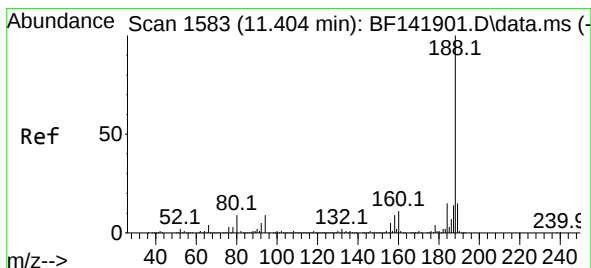
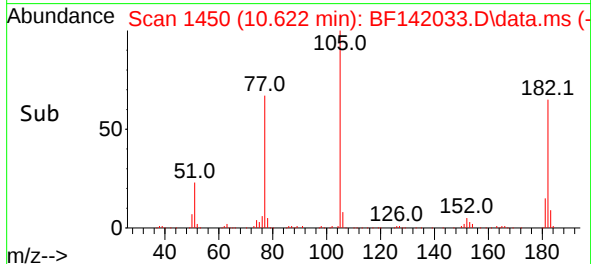
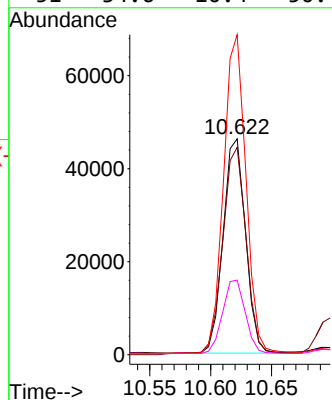
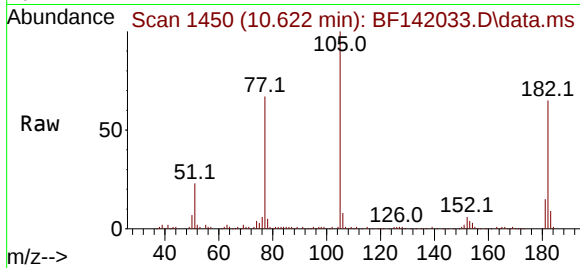




#63  
Azobenzene  
Concen: 3.153 ng  
RT: 10.622 min Scan# 1449  
Delta R.T. 0.006 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

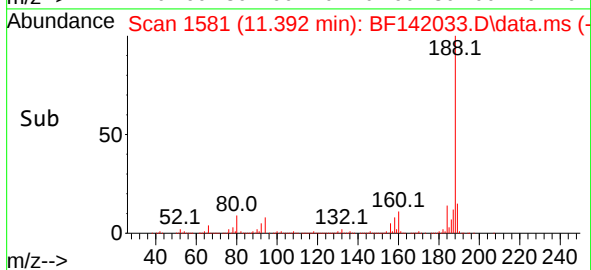
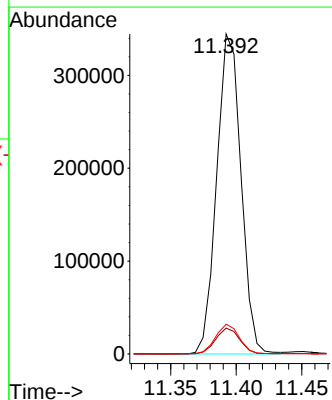
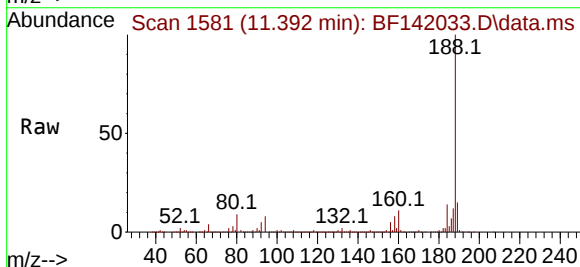
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

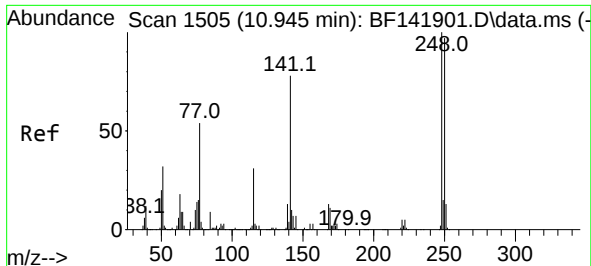
|             |             |
|-------------|-------------|
| Tgt Ion: 77 | Resp: 59002 |
| Ion Ratio   | Lower Upper |
| 77 100      |             |
| 182 96.1    | 6.6 46.6#   |
| 105 148.3   | 1.3 41.3#   |
| 51 34.6     | 10.4 50.4   |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.392 min Scan# 1581  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

|              |              |
|--------------|--------------|
| Tgt Ion: 188 | Resp: 443263 |
| Ion Ratio    | Lower Upper  |
| 188 100      |              |
| 94 8.1       | 6.8 10.2     |
| 80 9.3       | 7.6 11.4     |

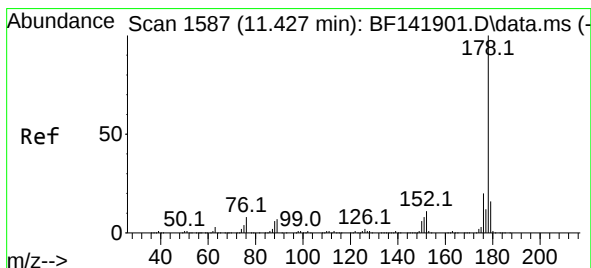
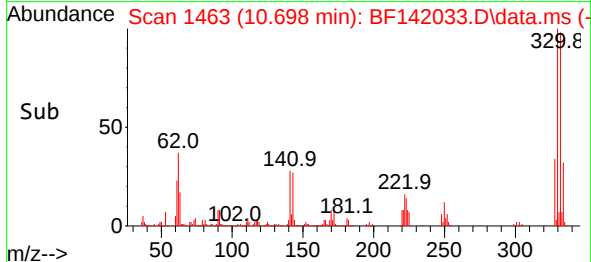
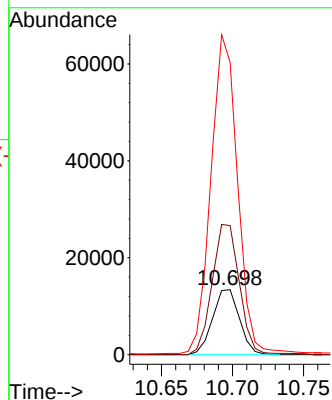
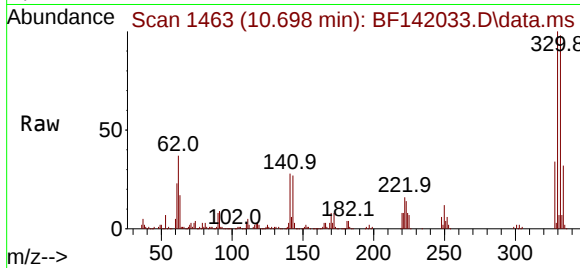




#67  
4-Bromophenyl-phenylether  
Concen: 3.173 ng  
RT: 10.698 min Scan# 1463  
Delta R.T. -0.247 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

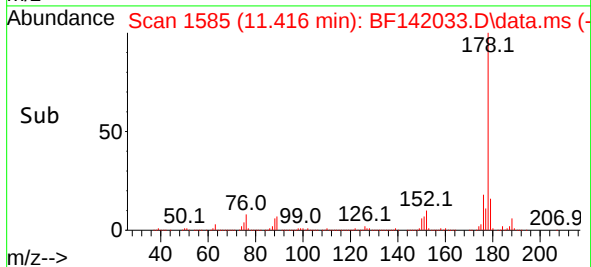
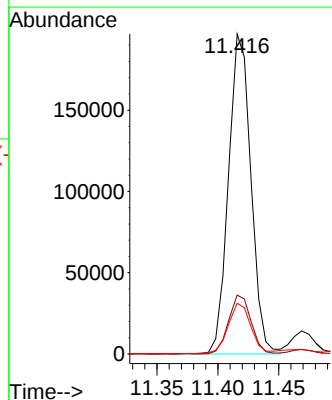
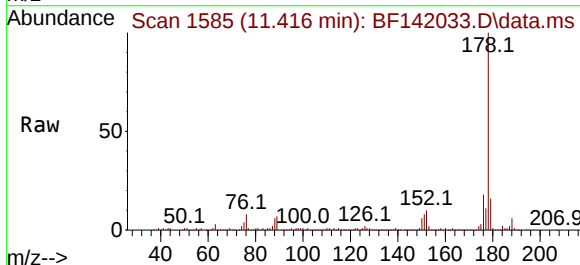
Instrument :  
BNA\_F  
ClientSampleId :  
TP-4

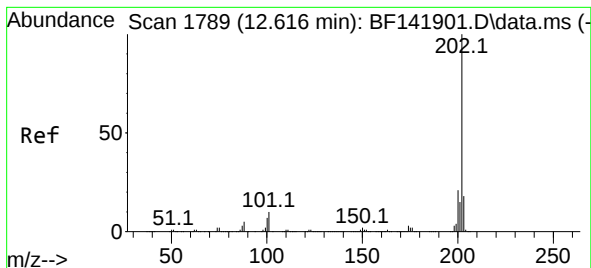
Tgt Ion:248 Resp: 17666  
Ion Ratio Lower Upper  
248 100  
250 199.0 77.8 116.8#  
141 450.0 62.6 93.8#



#71  
Phenanthrene  
Concen: 10.552 ng  
RT: 11.416 min Scan# 1585  
Delta R.T. -0.012 min  
Lab File: BF142033.D  
Acq: 21 Mar 2025 16:51

Tgt Ion:178 Resp: 252640  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.8 23.8  
179 15.8 12.6 19.0





#75

Fluoranthene

Concen: 2.666 ng

RT: 12.604 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142033.D

Acq: 21 Mar 2025 16:51

Instrument :

BNA\_F

ClientSampleId :

TP-4

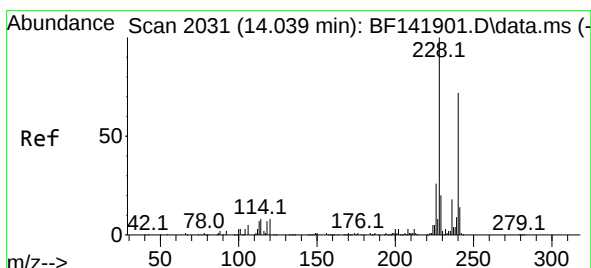
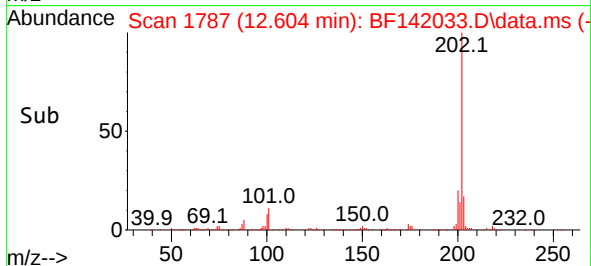
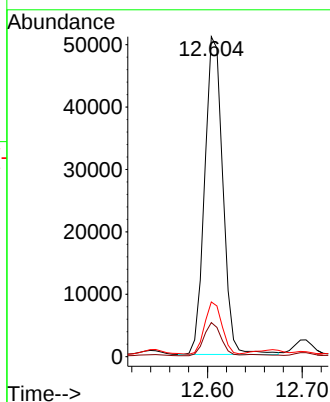
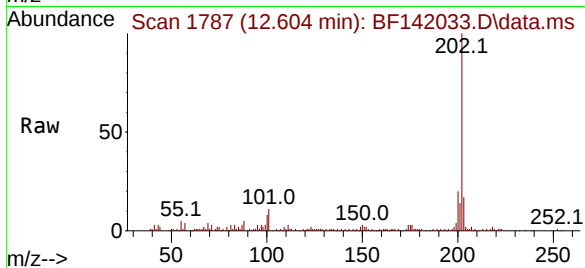
Tgt Ion:202 Resp: 67718

Ion Ratio Lower Upper

202 100

101 10.6 0.0 29.7

203 17.1 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.006 min

Lab File: BF142033.D

Acq: 21 Mar 2025 16:51

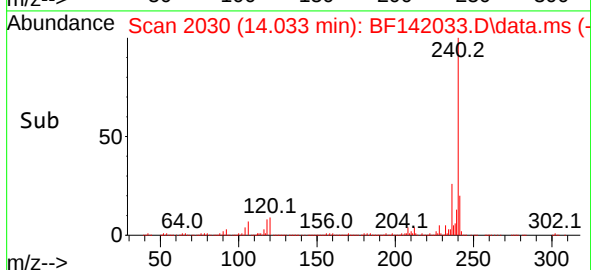
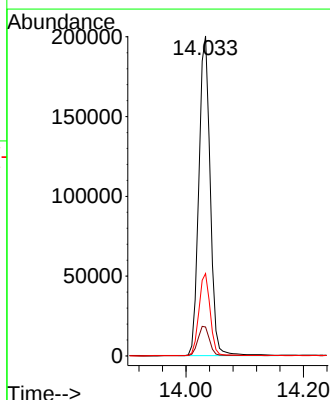
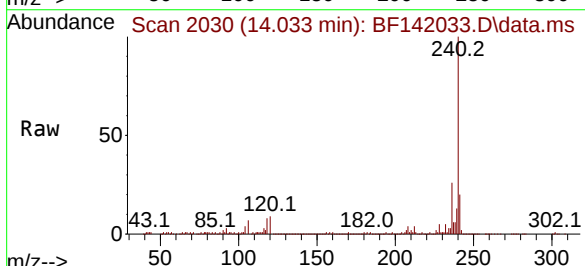
Tgt Ion:240 Resp: 268691

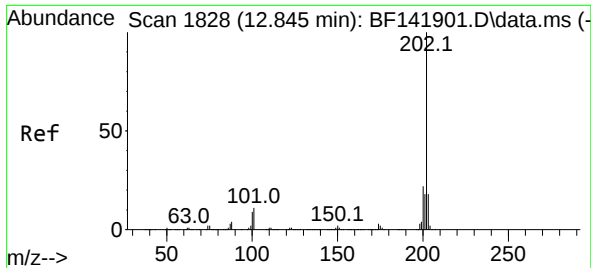
Ion Ratio Lower Upper

240 100

120 9.0 8.4 12.6

236 25.8 20.5 30.7

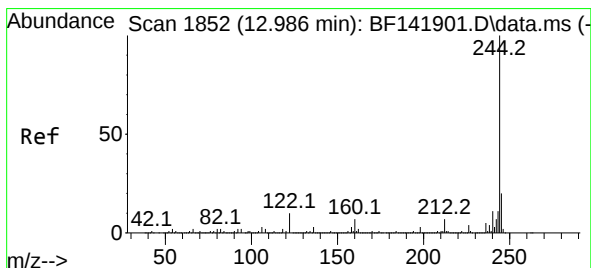
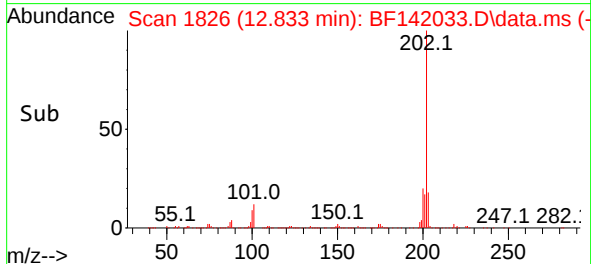
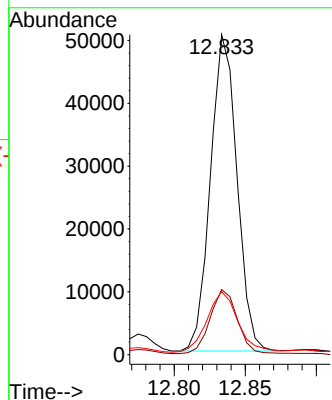
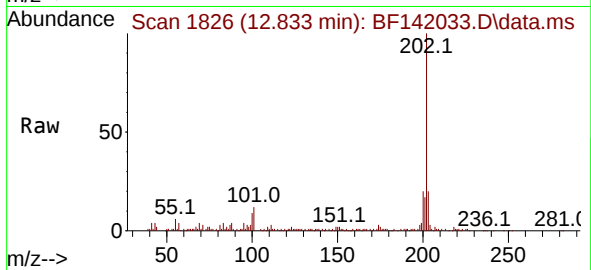




#78  
 Pyrene  
 Concen: 2.816 ng  
 RT: 12.833 min Scan# 1826  
 Delta R.T. -0.012 min  
 Lab File: BF142033.D  
 Acq: 21 Mar 2025 16:51

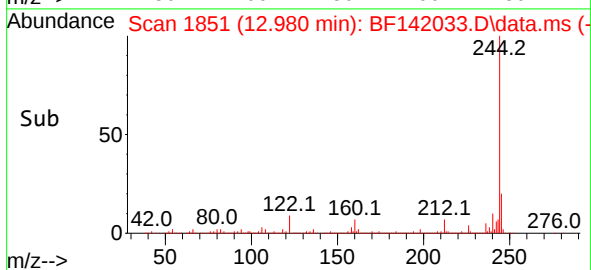
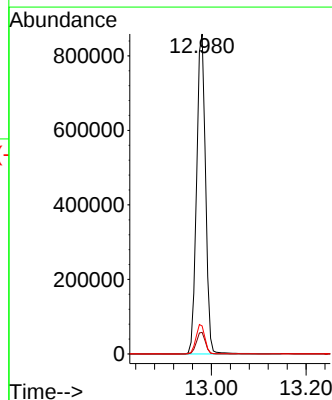
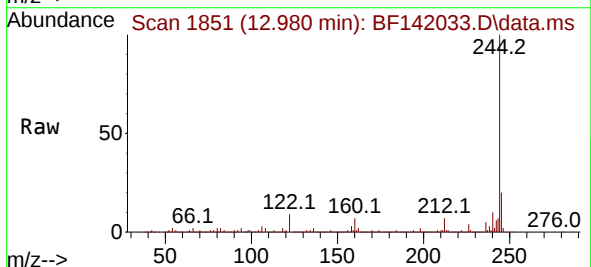
Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-4

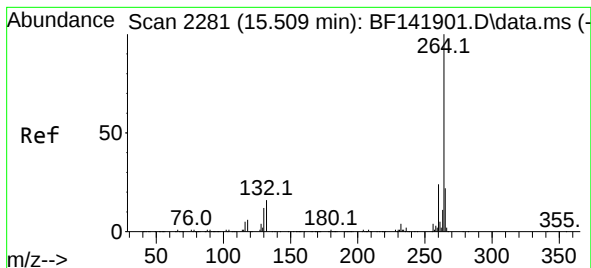
Tgt Ion:202 Resp: 65452  
 Ion Ratio Lower Upper  
 202 100  
 200 20.4 17.3 25.9  
 203 19.7 14.4 21.6



#79  
 Terphenyl-d14  
 Concen: 61.941 ng  
 RT: 12.980 min Scan# 1851  
 Delta R.T. -0.006 min  
 Lab File: BF142033.D  
 Acq: 21 Mar 2025 16:51

Tgt Ion:244 Resp: 1125704  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 6.0 9.0  
 122 8.7 7.7 11.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142033.D

Acq: 21 Mar 2025 16:51

Instrument :

BNA\_F

ClientSampleId :

TP-4

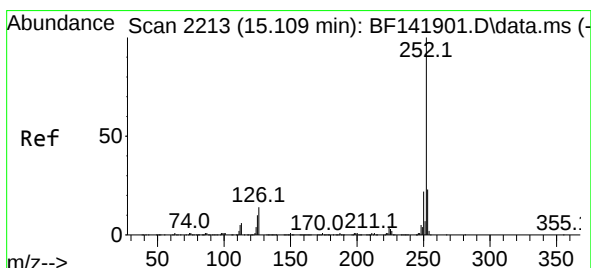
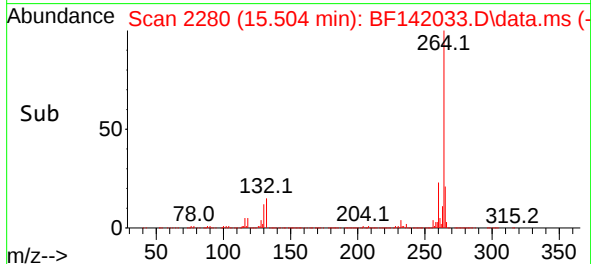
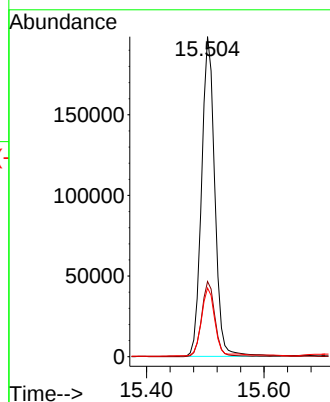
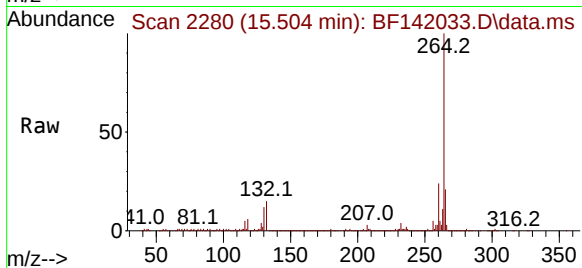
Tgt Ion:264 Resp: 309109

Ion Ratio Lower Upper

264 100

260 23.5 19.1 28.7

265 21.5 17.5 26.3



#89

Benzo(k)fluoranthene

Concen: 2.117 ng

RT: 15.074 min Scan# 2207

Delta R.T. -0.035 min

Lab File: BF142033.D

Acq: 21 Mar 2025 16:51

Tgt Ion:252 Resp: 38380

Ion Ratio Lower Upper

252 100

253 21.7 17.7 26.5

125 13.9 7.2 10.8#

